11-08-2024 LETTING ITEM 063

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(68-5HB-1,2)BRR,BY,D	MONTGOMERY	122	1
	ILLINOIS	CONTRACT NO. 72A59		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

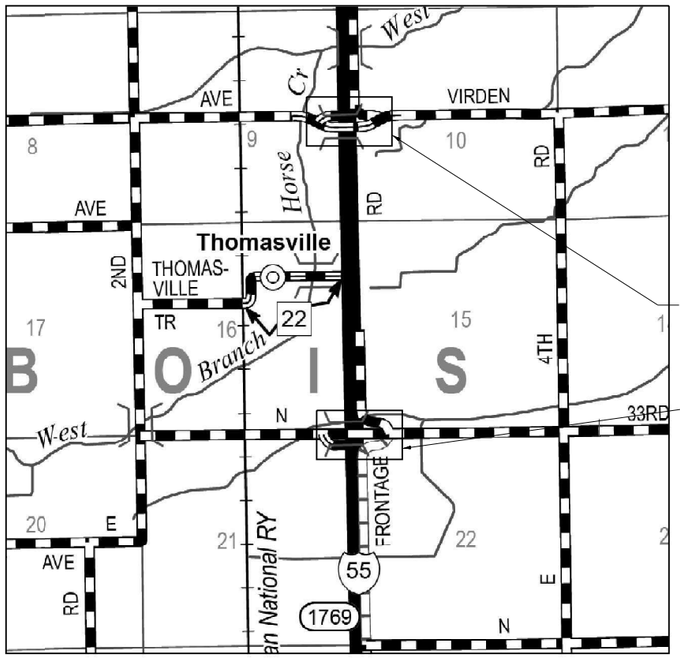
PROPOSED
HIGHWAY PLANS

FAI ROUTE 55 (I–55)
SECTION (68–5HB–1,2)BRR,BY,D
PROJECT NHPP–RHMK(559)
MONTGOMERY COUNTY

C–96–036–22

D-96-031-22

LOCATION OF SECTION INDICATED THUS: –



N

TR 7 / VIRDEN AVE. OVER I-55
SN 068-0035
DECK REPLACEMENT AND
BRIDGE REHABILITATION

TR 17 / 33RD AVE. OVER I-55
SN 068-0036
DECK REPLACEMENT AND
BRIDGE REHABILITATION

LOCATION MAP

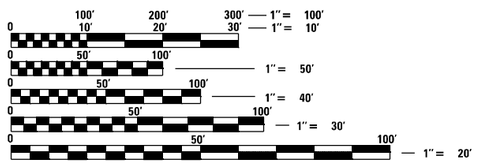
SN 068–0035, TR 7 (VIRDEN AVE)
2020 ADT = 75

SN 068–0036, TR 17 (N 33rd AVE)
2020 ADT = 50

FUNCTIONAL CLASSIFICATION
LOCAL ROAD OVER INTERSTATE

I–55 , FUNCTIONAL CLASSIFICATION: CLASS I – INTERSTATE
2022 ADT = 30,200, SU = 3.2%, MU = 23.5%

INDEX OF SHEETS



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

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

PROJECT ENGINEER JON KELLEY 217–785–2739
PROJECT MANAGER CLOYD JACK 217–524–0064

CONTRACT NO. 72A59

SN 068–0035
GROSS LENGTH = 1,400 FT = 0.265 MILE

SN 068–0036
GROSS LENGTH = 1,350 FT = 0.256 MILE

MARY COOMBE BLOXDORF
43208
REGISTERED PROFESSIONAL ENGINEER OF ILLINOIS

Mary Coombe Bloxdorf
ILLINOIS PROFESSIONAL NO. 43208
EXPIRES 11-30-25

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED August 16 20 24
REGIONAL ENGINEER

October 4, 2024
ENGINEER OF DESIGN AND ENVIRONMENT

October 4, 2024
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

LIST OF STANDARDS

000001-08	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
001001-02	AREAS OF REINFORCEMENT BARS
001006	DECIMAL OF AN INCH AND OF A FOOT
420406	PAVEMENT CONNECTOR (HMA) FOR BRIDGE APPROACH SLAB
515001-04	NAME PLATE FOR BRIDGES
630001-13	STEEL PLATE BEAM GUARDRAIL
630301-09	SHOULDER WIDENING FOR TYPE 1 GUARDRAIL TERMINALS
631031-18	TRAFFIC BARRIER TERMINAL TYPE 6
701001-02	OFF ROAD OPERATIONS, 2L, 2W, MORE THAN 15FT AWAY
701006-05	OFF ROAD OPERATIONS, 2L, 2W, 15 FT TO 24 IN FROM PAVEMENT EDGE
701101-05	OFF ROAD OPERATIONS, MULTILANE, 15 FT TO 24 IN FROM PAVEMENT EDGE
701106-02	OFF ROAD OPERATIONS, MULTILANE, MORE THAN 15 FT AWAY
701201-05	LANE CLOSURE 2L 2W-DAY ONLY
701400-12	APPROACH TO LANE CLOSURE FREEWAY EXPRESSWAY
701401-13	LANE CLOSURE FREEWAY EXPRESSWAY
701428-01	TRAFFIC CONTROL SET UP REMOVAL FREEWAY EXPRESSWAY
701901-09	TRAFFIC CONTROL DEVICES
725001-01	OBJECT AND TERMINAL MARKERS
782006-01	GUARDRAIL AND BARRIER WALL REFLECTOR MOUNTING DETAILS
BLR 21-9	TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES FOR CONSTRUCTION ON RURAL LOCAL HIGHWAYS
420001-10	PAVEMENT JOINTS

COMMITMENTS

NO COMMITMENTS

GENERAL NOTES

ALL ELEVATIONS REFER TO NAVD-88 MEAN SEA LEVEL DATUM.

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

AGGREGATE OTHER (TYPE B, TYPE C, WEDGE SHOULDER, ETC)	1.60 TONS/CUBIC YARD
BITUMINOUS MATERIALS (TACK COAT)	0.05 LBS/SQUARE FEET (MILLED/EXISTING)
BITUMINOUS MATERIALS (TACK COAT)	0.025 LBS/SQUARE FEET (BETWEEN LIFTS)
AGGREGATE (PRIME COAT)	0.25 LBS/SQUARE FEET
HMA SURFACE/BINDER (112 LBS)	0.056 TON/SQUARE YARD - INCH
NITROGEN FERTILIZER NUTRIENT	90 LBS/ACRE
POTASSIUM FERTILIZER NUTRIENT	90 LBS/ACRE
PHOSPHOROUS FERTILIZER NUTRIENT	90 LBS/ACRE
TEMPORARY EROSION CONTROL SEEDING	100 LBS/ACRE
MULCH	2 TONS/ACRE
AGRICULTURAL GROUND LIMESTONE	2 TONS/ACRE

THE FOLLOWING MIXTURE REQUIREMENTS ARE APPLICABLE TO THIS PROJECT:

MIXTURE USE:	HMA SURFACE COURSE	HMA PAVEMENT CONNECTOR AND BINDER COURSE
PG	PG 64-22	PG 64-22
DESIGN AIR VOIDS	4.0% @ N50	4.0% @ N50
MIXTURE COMPOSITION	IL-9.5	IL-19.0
FRICTION AGGREGATE	MIX "C"	N/A
MIXTURE WEIGHT	112 LB/SY*IN	112 LB/SY*IN
QUALITY MANAGEMENT	QC/QA	QC/QA
SUBLOT SIZE	N/A	N/A
MTD REQUIRED	NO	NO

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
DISTRICT 6

EXAMINED July 17, 20 24
ENGINEER OF OPERATIONS

EXAMINED July 29, 20 24
ENGINEER OF PROJECT IMPLEMENTATION

EXAMINED August 7, 20 24
ENGINEER OF PROGRAM DEVELOPMENT

REV - MS

MODEL: Notes
FILE NAME: \\rochelle\drawings\ORD\21121-718D21-718-sht-notes.dgn

FEHR GRAHAM
ENGINEERING & ENVIRONMENTAL
ILLINOIS DESIGN FIRM NO. 184-002605

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	DRAWN -	REVISED -
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PLOT DATE = 8/14/2024	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LIST OF STANDARDS,
GENERAL NOTES, & COMMITMENTS

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

F.A. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(68-5HB-1,2)BRR, BY,D	MONTGOMERY	122	2
		CONTRACT NO. 72A59		
	ILLINOIS FED. AID PROJECT			

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	6-01041-0000 NHPP FUNDING 90% FED / 10% STATE SN 068-0035 BRIDGE 0013 RURAL	6-01042-0000 NHPP FUNDING 90% FED / 10% STATE SN 068-0036 BRIDGE 0013 RURAL
20200100	EARTH EXCAVATION	CU YD	52	34	18
20400800	FURNISHED EXCAVATION	CU YD	120	87	33
21400100	GRADING AND SHAPING DITCHES	FOOT	542	340	202
25000200	SEEDING, CLASS 2	ACRE	0.5	0.25	0.25
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	45	22.5	22.5
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	45	22.5	22.5
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	45	22.5	22.5
25000700	AGRICULTURAL GROUND LIMESTONE	TON	1	0.5	0.5
25100115	MULCH, METHOD 2	ACRE	0.5	0.25	0.25
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	150	75	75
28100105	STONE RIPRAP, CLASS A3	SQ YD	25	9	16
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	247	101	146
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	345	155	190
40600990	TEMPORARY RAMP	SQ YD	427	233	194

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	6-01041-0000 NHPP FUNDING 90% FED / 10% STATE SN 068-0035 BRIDGE 0013 RURAL	6-01042-0000 NHPP FUNDING 90% FED / 10% STATE SN 068-0036 BRIDGE 0013 RURAL
40603080	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50	TON	46	23	23
40604050	HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "C", N50	TON	68	34	34
42000070	PAVEMENT CONNECTOR (HMA) FOR BRIDGE APPROACH SLAB	SQ YD	134	67	67
44000100	PAVEMENT REMOVAL	SQ YD	356	178	178
48102100	AGGREGATE WEDGE SHOULDER, TYPE B	TON	35	18	17
50102400	CONCRETE REMOVAL	CU YD	10	5.4	4.6
50104701	REMOVAL OF EXISTING CONCRETE DECK NO. 1	EACH	1	1	
50104702	REMOVAL OF EXISTING CONCRETE DECK NO. 2	EACH	1		1
50157300	PROTECTIVE SHIELD	SQ YD	928	464	464
50300225	CONCRETE STRUCTURES	CU YD	56.6	27.4	29.2
50300255	CONCRETE SUPERSTRUCTURE	CU YD	783	381.9	401.1
50300260	BRIDGE DECK GROOVING	SQ YD	2214	1102	1112
50300300	PROTECTIVE COAT	SQ YD	3084	1521	1563
50301350	CONCRETE SUPERSTRUCTURE (APPROACH SLAB)	CU YD	162.8	81.4	81.4

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FEHR GRAHAM
ENGINEERING & ENVIRONMENTAL
ILLINOIS DESIGN FIRM NO. 184-003525

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	DRAWN - MCE	REVISED -
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PLOT DATE = 8/16/2024	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

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

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(68-5HB-1,2)BRR,BY,D	MONTGOMERY	122	4
		CONTRACT NO. 72A59		
	ILLINOIS	FED. AID PROJECT		

				6-01041-0000	6-01042-0000
				NHPP FUNDING	NHPP FUNDING
				90% FED / 10% STATE	90% FED / 10% STATE
				SN 068-0035	SN 068-0036
				BRIDGE	BRIDGE
CODE NO.	ITEM	UNIT	TOTAL QUANTITY	0013 RURAL	0013 RURAL
50400805	FURNISHING AND ERECTING PRECAST PRESTRESSED CONCRETE I-BEAMS, 36 IN.	FOOT	132	132	
50500405	FURNISHING AND ERECTING STRUCTURAL STEEL	POUND	7340	3600	3740
50500505	STUD SHEAR CONNECTORS	EACH	720	240	480
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	288860	141830	147030
51500100	NAME PLATES	EACH	2	1	1
52000110	PREFORMED JOINT STRIP SEAL	FOOT	117	58.5	58.5
52100010	ELASTOMERIC BEARING ASSEMBLY, TYPE I	EACH	16	8	8
52100510	ANCHOR BOLTS, 3/4"	EACH	48	32	16
52100520	ANCHOR BOLTS, 1"	EACH	8		8
58700300	CONCRETE SEALER	SQ FT	286	184	102
* 63000003	STEEL PLATE BEAM GUARDRAIL, TYPE A, 9 FOOT POSTS	FOOT	2,975	1,550	1425
* 63100085	TRAFFIC BARRIER TERMINAL, TYPE 6	EACH	8	4	4
* 63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	8	4	4
63200310	GUARDRAIL REMOVAL	FOOT	3082	1754	1328
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	12	6	6

* SPECIALTY ITEM

REV - MS

MODEL: SOQ 3
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FEHR GRAHAM
ENGINEERING & ENVIRONMENTAL
ILLINOIS DESIGN FIRM NO. 184-003525

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PLOT DATE = 8/16/2024	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

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

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(68-5HB-1,2)BRR,BY,D	MONTGOMERY	122	5
		CONTRACT NO. 72A59		
	ILLINOIS	FED. AID PROJECT		

					6-01041-0000	6-01042-0000
					NHPP FUNDING 90% FED / 10% STATE SN 068-0035	NHPP FUNDING 90% FED / 10% STATE SN 068-0036
					BRIDGE	BRIDGE
	CODE NO.	ITEM	UNIT	TOTAL QUANTITY	0013 RURAL	0013 RURAL
	67100100	MOBILIZATION	L SUM	1	0.5	0.5
	70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	L SUM	1	0.5	0.5
	70100800	TRAFFIC CONTROL AND PROTECTION, STANDARD 701401	L SUM	1	0.5	0.5
	70107025	CHANGEABLE MESSAGE SIGN	CAL DA	60	30	30
	70200100	NIGHTTIME WORK ZONE LIGHTING	L SUM	1	0.5	0.5
*	72501000	TERMINAL MARKER - DIRECT APPLIED	EACH	8	4	4
*	78200005	GUARDRAIL REFLECTORS, TYPE A	EACH	50	26	24
*	78200010	BARRIER WALL REFLECTORS, TYPE B	EACH	64	32	32
	X5080530	BAR TERMINATOR	EACH	96	48	48
	X7011800	TRAFFIC CONTROL AND PROTECTION, STANDARD BLR 21	L SUM	1	0.5	0.5
	Z0001899	JACK AND REMOVE EXISTING BEARINGS	EACH	16	8	8
	Z0001903	STRUCTURAL STEEL REMOVAL	POUND	4020	2020	2000
	Z0001905	STRUCTURAL STEEL REPAIR	POUND	140		140

* SPECIALTY ITEM

REV - MS

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ENGINEERING & ENVIRONMENTAL
ILLINOIS DESIGN FIRM NO. 184-003525
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USER NAME = jason.dove	DESIGNED - MCB	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUMMARY OF QUANTITIES
	DRAWN - MCE	REVISED -		
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PLOT DATE = 8/16/2024	DATE -	REVISED -		

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(68-5HB-1,2)BRR,BY,D	MONTGOMERY	122	6
		CONTRACT NO. 72A59		
	ILLINOIS FED. AID PROJECT			

	CODE NO.	ITEM	UNIT	TOTAL QUANTITY	NHPP FUNDING 90% FED / 10% STATE SN 068-0035 BRIDGE 0013 RURAL	NHPP FUNDING 90% FED / 10% STATE SN 068-0036 BRIDGE 0013 RURAL
	Z0003615	REMOVAL OF EXISTING CONCRETE I-BEAM	EACH	6	6	
	Z0007101	CONTAINMENT AND DISPOSAL OF LEAD PAINT CLEANING RESIDUES NO. 1	L SUM	1		1
	Z0010501	CLEANING AND PAINTING STEEL BRIDGE NO. 1	L SUM	1		1
	Z0012754	STRUCTURAL REPAIR OF CONCRETE (DEPTH EQUAL TO OR LESS THAN 5 INCHES)	SQ FT	142	24	118
	Z0013798	CONSTRUCTION LAYOUT	L SUM	1	0.5	0.5
Ø	Z0076600	TRAINEES	HOUR	2000	2000	
	Z0018002	DRAINAGE SCUPPERS, DS-11	EACH	8	4	4
Ø	Z0076604	TRAINEES TRAINING PROGRAM GRADUATE	HOUR	2000	2000	

Ø 0042

REV - MS

MODEL: SOQ 5
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FEHR GRAHAM
ENGINEERING & ENVIRONMENTAL
ILLINOIS DESIGN FIRM NO. 184-003523

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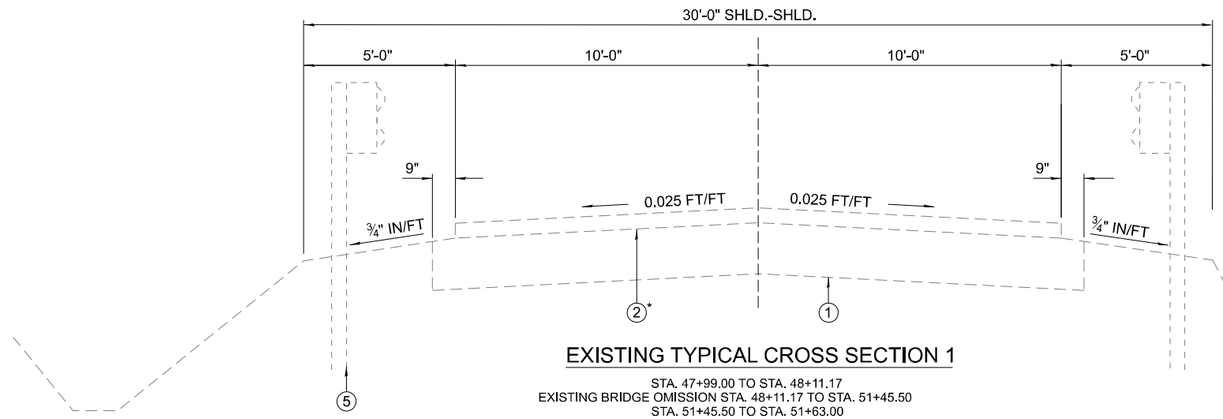
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

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

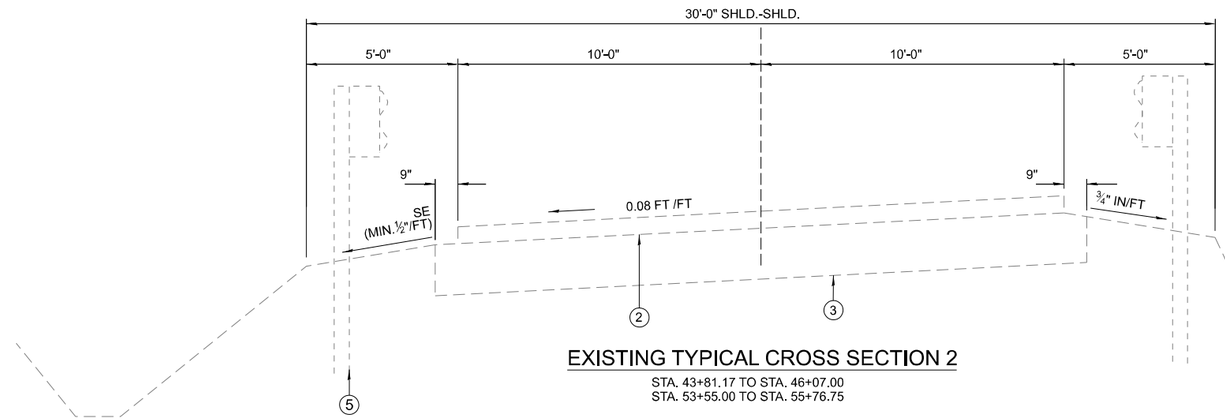
F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(68-5HB-1,2)BRR,BY,D	MONTGOMERY	122	7
		CONTRACT NO. 72A59		
		ILLINOIS	FED. AID PROJECT	



EXISTING TYPICAL CROSS SECTION 1

STA. 47+99.00 TO STA. 48+11.17
EXISTING BRIDGE OMISSION STA. 48+11.17 TO STA. 51+45.50
STA. 51+45.50 TO STA. 51+63.00

*VARIES 3" TO 4.5" STA. 47+61.17 TO STA. 48+11.17
VARIES 4.5" TO 3" STA. 51+45.50 TO STA. 51+80.50



EXISTING TYPICAL CROSS SECTION 2

STA. 43+81.17 TO STA. 46+07.00
STA. 53+55.00 TO STA. 55+76.75

SE TRANSITIONS
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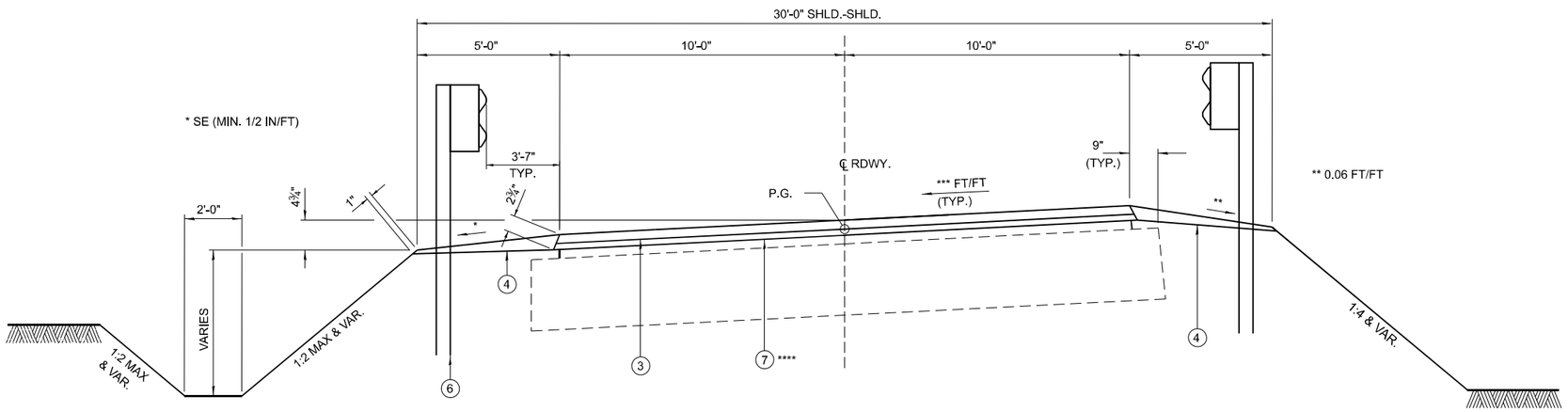
SECT. 2 TO SECT. 1, STA. STA. 46+07.80 TO STA. 47+99.00
SECT. 1 TO SECT. 2, STA. 51+63.00 TO STA. 53+55.00
SECT. 2 TO SECT. 1, STA. 55+76.75 TO STA. 59+60.75



PROPOSED TYPICAL CROSS SECTION 2

STA. 46+81.17 TO 47+81.17
STA. 51+75.50 TO 52+75.50

*** FULL SE 0.08'/'
STA. 46+07.00
STA. 53+55.00

**** STA. 47+11 TO STA. 47+81.17
STA. 51+75.50 TO STA. 52+35.80

PROPOSED BRIDGE OMMISSION
STA. 47+81.17 TO STA. 51+75.50

LEGEND

1. EX AGG. BASE CSE, TY A 9"
2. EX BITUMINOUS SURFACE PLANT MIX B, 3"
3. HMA SURFACE COURSE, IL.-9.5, MIX C, N50 (1½")
4. AGGREGATE WEDGE SHOULDERS, TYPE B
5. EXISTING GUARDRAIL, TBR
6. PROPOSED SPBGR, TYPE A, 9' POSTS
7. HMA BINDER COURSE, IL-19.0, N50 (VARIABLE THICKNESS)

MODEL: Typical Sections
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FEHR GRAHAM
ENGINEERING & ENVIRONMENTAL
ILLINOIS DESIGN FIRM NO. 184-003525

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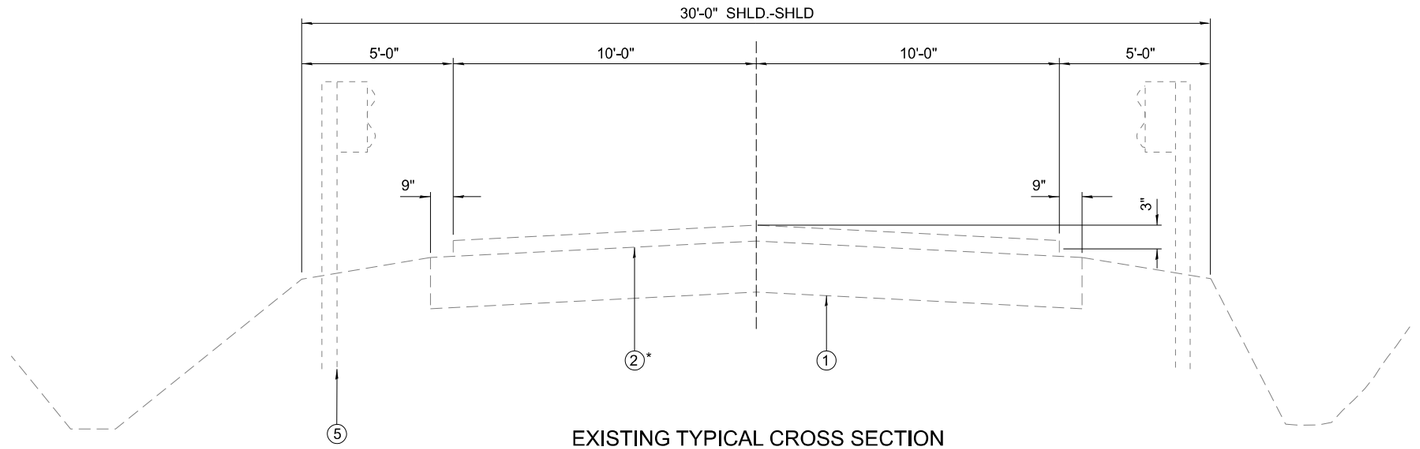
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TYPICAL CROSS SECTIONS
SN 068–0035

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

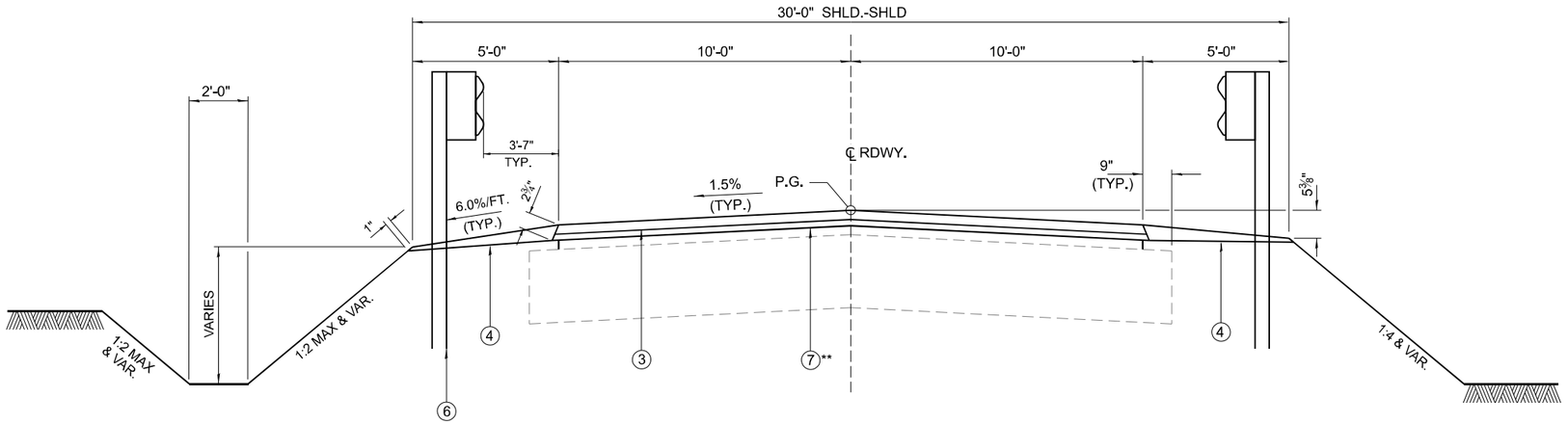
F.A. - RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAI 55	(68-5HB-1,2)BRR,BY,D	MONTGOMERY	122	8
		CONTRACT NO. 72A59		
	ILLINOIS	FED. AID PROJECT		



EXISTING TYPICAL CROSS SECTION

STA. 43+50.00 TO STA. 48+21.00
STA. 51+59.00 TO STA. 57+50.00

* VARIES 3" TO 4.5" STA. 47+86.00 TO STA. 48+21.00
STA. 52+09.00 TO STA. 51+59.00



PROPOSED TYPICAL CROSS SECTION

STA. 46+91.00 TO STA. 47+91.00
STA. 51+89.00 TO STA. 52+89.00

** STA. 47+54.90 TO STA. 47+91.00
STA. 51+89.00 TO STA. 52+67.60

LEGEND

1. EX AGG. BASE CSE, TY A 9"
2. EX BITUMINOUS SURFACE PLANT MIX B, 3"
3. HMA SURFACE COURSE, IL.-9.5, MIX C, N50 (1½")
4. AGGREGATE WEDGE SHOULDERS, TYPE B
5. EXISTING GUARDRAIL, TBR
6. PROPOSED SPBGR, TYPE A, 9' POSTS
7. HMA BINDER COURSE, IL-19.0, N50 (VARIABLE THICKNESS)

NOTE:
TRANSITION CROWN FROM EX TO PROPOSED
STA. 46+91.00 TO 47+41.00

TRANSITION CROWN FROM PROPOSED TO EXISTING
STA. 52+39.00 TO 52+89.0

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PLOT DATE = 8/14/2024	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TYPICAL CROSS SECTIONS
SN 068–0036

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

F.A. - RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAI 55	(68-5HB-1,2)BRR,BY,D	MONTGOMERY	122	9
		CONTRACT NO. 72A59		
	ILLINOIS	FED. AID PROJECT		

ROADWAY SCHEDULE

AGGR. SHOULDER RATE -1.60 POUNDS/SF
*HMA LIFT (TACK COAT) RATE -0.05 T/CU YD
**HMA LIFT (TACK COAT) RATE -0.025 T/CU YD
HMA SURF/ BINDER (112 LBS) RATE - 0.056 T/SY*IN

LOCATION STATION TO STATION				LENGTH FT	WIDTH FT	AREA SQ FT	40600290 BITUMINOUS MATERIALS (TACK COAT) POUNDS	40600982 HMA SURFACE REMOVAL BUTT JOINT SQ YD	40600990 TEMPORARY RAMP SQ YD	40603080 HMA BINDER COURSE IL-19.0, N50 TON	40604050 HMA SURFACE COURSE IL-9.5, MIX "C", N50 TON	42000070 PAVEMENT CONNECTOR (HMA) FOR BRIDGE APPROACH SLAB SQ YD	48102100 AGGREGATE WEDGE SHOULDER TYPE B TON
TR 7													
STA.	46+81.17	TO STA	46+86.17	5.00	20.00	100.00	5.00	11.11	11.11		0.93		0.46
STA.	46+86.17	TO STA	47+11.00	24.83	20.00	496.60	24.83	55.18			4.63		2.30
STA.	47+11.00	TO STA	47+50.00	39.00	20.00	780.00	58.50		86.67	5.24	7.28		3.61
STA.	47+50.00	TO STA	47+71.17	21.17	20.00	423.40	31.76		47.04	4.38	3.95		1.96
STA.	47+71.17	TO STA	47+81.17	10.00	20.00	200.00						33.33	
STA.	51+75.50	TO STA	51+85.50	10.00	20.00	200.00						33.33	0.93
STA.	51+85.50	TO STA	52+00.00	14.50	20.00	290.00	21.75		32.22	4.98	2.71		1.34
STA.	52+00.00	TO STA	52+20.00	20.00	20.00	400.00	30.00		44.44	6.86	3.73		1.85
STA.	52+20.00	TO STA	52+35.80	15.80	20.00	316.00	23.70			1.66	2.95		1.46
STA.	52+35.80	TO STA	52+70.50	34.70	20.00	694.00	34.70	77.11			6.48		3.21
STA.	52+70.50	TO STA	52+75.50	5.00	20.00	100.00	5.00	11.11	11.11		0.93		0.46
TR 17													
STA.	46+91.00	TO STA	46+96.00	5.00	20.00	100.00	5.00	11.11	11.11		0.93		0.46
STA.	46+96.00	TO STA	47+54.90	58.90	20.00	1,178.00	58.90	130.89			10.99		5.45
STA.	47+54.90	TO STA	47+66.00	11.10	20.00	222.00	16.65		24.67	0.33	2.07		1.03
STA.	47+66.00	TO STA	47+81.00	15.00	20.00	300.00	22.50		33.33	3.21	2.80		1.39
STA.	47+81.00	TO STA	47+91.00	10.00	20.00	200.00						33.33	
STA.	51+89.00	TO STA	51+99.00	10.00	20.00	200.00						33.33	
STA.	51+99.00	TO STA	52+00.00	1.00	20.00	20.00	1.50		2.22	0.57	0.19		0.09
STA.	52+00.00	TO STA	52+25.00	25.00	20.00	500.00	37.50		55.56	11.24	4.67		2.31
STA.	52+25.00	TO STA	52+50.00	25.00	20.00	500.00	37.50		55.56	6.33	4.67		2.31
STA.	52+50.00	TO STA	52+67.60	17.60	20.00	352.00	26.40			1.37	3.29		1.63
STA.	52+67.60	TO STA	52+84.00	16.40	20.00	328.00	16.40	36.44			3.06		1.52
STA.	52+84.00	TO STA	52+89.00	5.00	20.00	100.00	5.00	11.11	11.11		0.93		0.46
			TOTAL:				463.0	345	427	46	68	134	35

* Milled Existing **Betweeen Lifts

SEEDING & FERTILIZER

LOCATION	*AREA SQ FT	25000200 SEEDING, CLASS 2 ACRE	25000400 NITROGEN FERT NUTRIENT POUND	25000500 PHOSPHORUS FERT NUTRIENT POUND	25000600 POTASSIUM FERT NUTRIENT POUND	25000700 AGRICULTURAL GROUND LIMESTONE TON	25100115 MULCH, METHOD 2 ACRE	28000250 TEMP EROSION CONTROL SEEDING POUNDS
SN 068-0035	13,000.00	0.25	22.5	22.5	22.5	0.5	0.25	75.0
SN 068-0036	13,000.00	0.25	22.5	22.5	22.5	0.5	0.25	75.0
TOTAL:		0.50	45.0	45.0	45.0	1.0	0.50	150.0

*MEASURED IN CADD

EARTHWORK SCHEDULE

LOCATION	EARTH EXCAVATION CU YD	EXCAVATION USED IN EMBANKMENT (25% SHRINKAGE) CU YD	EMBANKMENT CU YD	EARTHWORK BALANCE WASTE (+) OR SHORTAGE (-) CU YD
TR 7				
*STA. 43+25.00 TO STA. 43+84.28	0	0	4	-4
STA. 46+81.17 TO STA. 47+79.17	0	0	14	-14
STA. 47+79.17 TO STA. 48+11.17	21	15	9	7
STA.51+45.50 TO STA. 51+77.50	13	10	36	-27
STA.51+77.50 TO STA. 52+75.50	0	0	46	-46
*STA 55+97.39 TO STA. 56+80.00	0	0	4	-4
SUBTOTAL	34	25	113	-87
TR 17				
*STA. 44+00.00 TO STA. 44+94.11	0	0	8	-8
STA. 46+91.00 TO STA. 47+89.00	0	0	10	-10
STA. 47+89.00 TO STA. 48+21.00	14	10	11	-1
STA.51+59.00 TO STA. 51+91.00	4	3	4	-1
STA.51+91.00 TO STA. 52+89.00	0	0	9	-9
*STA. 56+48.39 TO STA.56+80.00	0	0	4	-4
SUBTOTAL	18	13	46	-33
TOTAL=	**52**	**39**	**159**	**-120**

* ESTIMATED FOR WIDENING AT GUARDRAIL TERMINALS

MODEL: Schedules
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FEHR GRAHAM
ENGINEERING & ENVIRONMENTAL
ILLINOIS DESIGN FIRM NO. 184-002855

USER NAME = mescatel
PLOT SCALE = 0.16666633 ' / In.
PLOT DATE = 8/14/2024

DESIGNED - | REVISED -
DRAWN - | REVISED -
CHECKED - | REVISED -
DATE - | REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES

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

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(68-5HP-1,2)BRR,BY,D	MONTGOMERY	122	10
		CONTRACT NO. 72A59		
	ILLINOIS FED. AID PROJECT			

GUARDRAIL SCHEDULE

LOCATION STATION TO STATION								63200310 GUARDRAIL REMOVAL FOOT	63100085 TRAFFIC BARRIER TERMINAL TYPE 6 EACH	63000003 STEEL PLATE BEAM GUARDRAIL TYPE A 9 FOOT POSTS FOOT	63100167 TRAFFIC BARRIER TERMINAL TYPE 1 (SPECIAL) TANGENT EACH	72501000 TERMINAL MARKER DIRECT APPLIED EACH	78200005 GUARDRAIL REFLECTORS TYPE A EACH	78200010 BARRIER WALL REFLECTORS TYPE B EACH
SN 068-0035														
STA.	LT	43+47.59		TO	STA.	48+11.17		463.58						
STA.	RT	43+60.17		TO	STA.	48+11.17		451.00						
STA.	LT	51+45.50		TO	STA.	55+70.74		425.24						
STA.	RT	51+45.50		TO	STA.	55+59.70		414.20						
STA.	LT & RT	43+34.28		TO	STA.	43+84.28					2	2		
STA.	LT & RT	43+84.28		TO	STA.	47+59.28				750				
STA.	LT & RT	47+59.28		TO	STA.	47+96.17			2					
STA.	LT & RT	51+60.50		TO	STA.	51+97.39			2					
STA.	LT & RT	51+97.39		TO	STA.	55+97.39				800				
STA.	LT & RT	55+97.39		TO	STA.	56+47.39					2	2		
STA.	LT & RT	43+43.28		TO	STA.	47+96.17							12	
STA.	LT & RT	51+60.50		TO	STA.	56+47.39							14	
STA.	LT & RT	47+96.17		TO	STA.	51+50.50								32
SN 068-0036														
STA.	LT	45+76.71		TO	STA.	48+21.00		244.29						
STA.	RT	45+76.20		TO	STA.	48+21.00		244.80						
STA.	LT	51+59.00		TO	STA.	55+78.20		419.20						
STA.	RT	51+59.00		TO	STA.	55+78.63		419.63						
STA.	LT & RT	44+44.11		TO	STA.	44+94.11					2	2		
STA.	LT & RT	44+94.11		TO	STA.	47+69.11				550				
STA.	LT & RT	47+69.11		TO	STA.	48+06.00			2					
STA.	LT & RT	51+74.00		TO	STA.	52+10.89			2					
STA.	LT & RT	52+10.89		TO	STA.	56+48.39				875				
STA.	LT & RT	56+48.39		TO	STA.	56+98.39					2	2		
STA.	LT & RT	44+44.11		TO	STA.	48+06.00							10	
STA.	LT & RT	51+74.00		TO	STA.	56+98.39							14	
STA.	LT & RT	48+06.00		TO	STA.	51+74.00								32
							TOTAL:	3,082	8	2,975	8	8	50	64

PAVEMENT REMOVAL SCHEDULE

LOCATION STATION TO STATION			LENGTH FT	WIDTH FT	AREA SQ FT	44000100 PAVEMENT REMOVAL SQ YD
TR 7						
STA. 47+71.17	TO STA. 47+81.17		10.00	20.00	200.00	22.22
STA. 47+81.17	TO STA. 48+11.17		30.00	20.00	600.00	66.67
STA. 51+45.50	TO STA. 51+75.50		30.00	20.00	600.00	66.67
STA. 51+75.50	TO STA. 51+85.50		10.00	20.00	200.00	22.22
TR 17						
STA. 47+81.00	TO STA. 47+91.00		10.00	20.00	200.00	22.22
STA. 47+91.00	TO STA. 48+21.00		30.00	20.00	600.00	66.67
STA. 51+59.00	TO STA. 51+89.00		30.00	20.00	600.00	66.67
STA. 51+89.00	TO STA. 51+99.00		10.00	20.00	200.00	22.22
					TOTAL:	356.0

STONE RIPRAP SCHEDULE

LOCATION STATION TO STATION				LENGTH FT	WIDTH FT	AREA SQ FT	28100105 STONE RIPRAP CLASS A3 SQ YD
TR 7							
STA. 48+08.67	TO STA. 48+13.17		LT	4.50	2.00	9.00	1.12
STA. 48+08.67	TO STA. 48+13.17		RT	4.50	2.00	9.00	1.12
STA. 48+13.17	TO STA. 48+20.17		LT	7.00	3.75	26.25	3.27
STA. 48+13.17	TO STA. 48+20.17		RT	7.00	3.75	26.25	3.27
TR 17							
STA. 48+18.50	TO STA. 48+23.00		LT	4.50	2.00	9.00	1.12
STA. 48+18.50	TO STA. 48+23.00		RT	4.50	2.00	9.00	1.12
STA. 48+23.00	TO STA. 48+29.00		LT	6.00	3.75	22.50	2.80
STA. 48+23.00	TO STA. 48+29.00		RT	6.00	3.75	22.50	2.80
STA. 51+51.00	TO STA. 51+57.00		LT	6.00	3.75	22.50	2.80
STA. 51+51.00	TO STA. 51+57.00		RT	6.00	3.75	22.50	2.80
STA. 51+57.00	TO STA. 51+61.50		LT	4.50	2.00	9.00	1.12
STA. 51+57.00	TO STA. 51+61.50		RT	4.50	2.00	9.00	1.12
						TOTAL:	25.0

REV - MS

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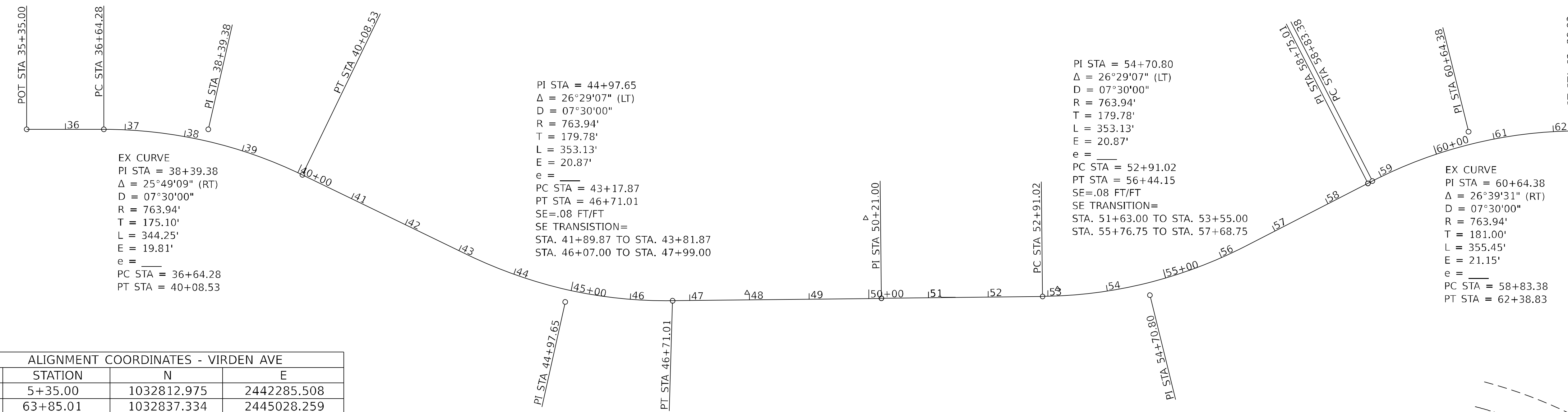
PLOT DATE = 8/14/2024	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(68-SHP-1,2)BRR,BY,D	MONTGOMERY	122	11
		CONTRACT NO. 72A59		
		ILLINOIS FED. AID PROJECT		

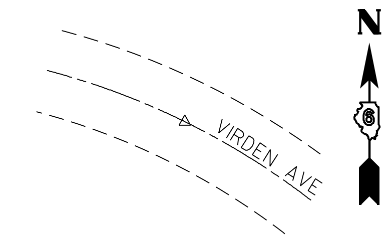


ALIGNMENT COORDINATES - VIRDEN AVE			
	STATION	N	E
POT	5+35.00	1032812.975	2442285.508
POT	63+85.01	1032837.334	2445028.259
PC	36+64.28	1032814.184	2442414.784
PC	52+91.02	1032548.909	2442414.782
PC	58+83.38	1032747.365	2444540.853
PI	38+39.38	1032815.821	2442589.875
PI	44+97.65	1032532.136	2443190.467
PI	54+70.80	1032552.679	2444169.822
PI	58+75.01	1032743.478	2444533.444
PI	60+64.38	1032831.465	2444701.132
PT	40+08.53	1032741.037	2442748.201
PT	46+71.01	1032535.906	2443370.206
PT	62+38.83	1032834.712	2444882.102

IL STATE PLANE WEST ZONE NAD83-1997 ADJ

D672A59 Benchmarks SN 068-0035

Benchmark Number	NAVD 88 Datum Elevation in Feet	Description	Station	Offset	Chain
BM TJM 1	675.681	SET cut {} in S.E. corner of S.W.parapet wall of overpass SN.068-0035	48+13.01	14.538 RT	TR 7
BM TJM 2	676.881	Set cut {} in N.W.corner of N.E.parapet wall of overpass SN.068-0035	51+43.72	14.489 LT	TR 7



PT STA 40+08.53

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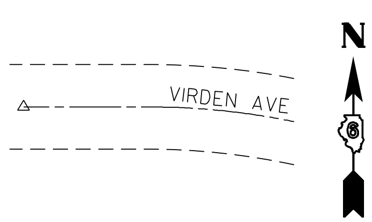

POT STA 35+35.00

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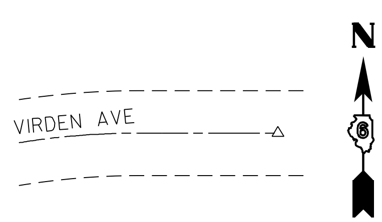

POT STA 63+85.01

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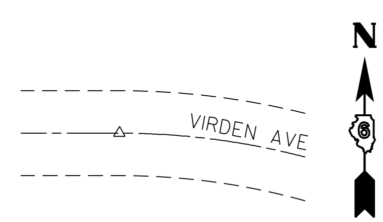

PC STA 36+64.28

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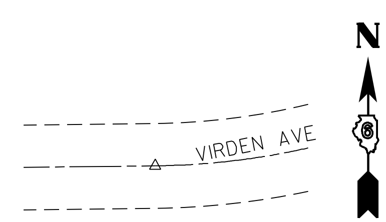

PC STA 52+91.02

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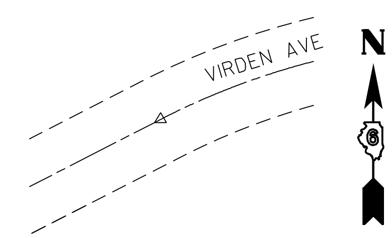

PC STA 58+83.38

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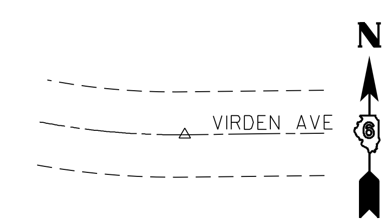

PT STA 46+71.01

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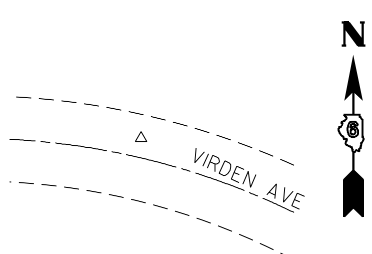

PI STA 38+39.38

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PI STA 44+97.65

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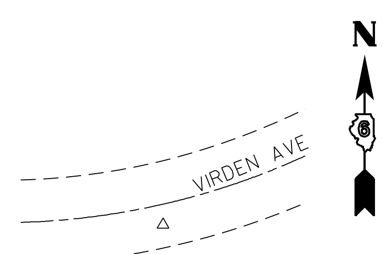

PI STA 54+70.80

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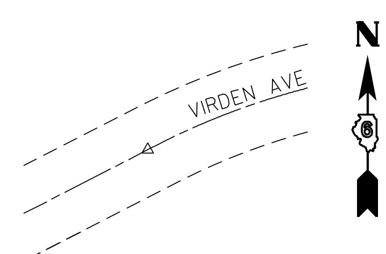

PI STA 58+75.01

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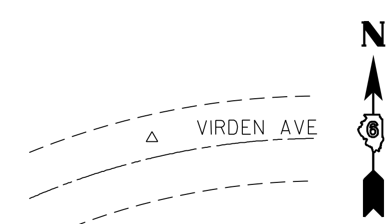

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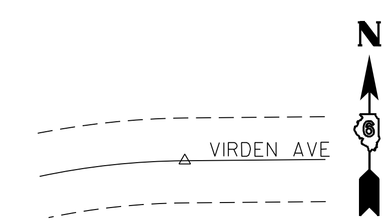

PT STA 62+38.83

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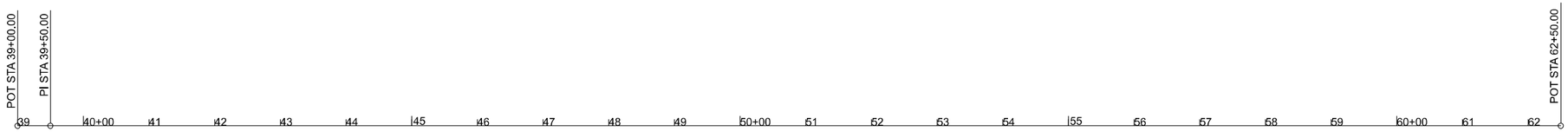
PLOT DATE = 8/14/2024	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ALIGNMENT, TIES, AND BENCHMARKS
TR7

SCALE: - | SHEET 01 OF 02 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(68-5HB-1,2)BRR,BY,D	MONTGOMERY	122	12
		CONTRACT NO. 72A59		
		ILLINOIS	FED. AID PROJECT	



ALIGNMENT COORDINATES - 33RD AVE			
	STATION	N	E
POT	39+00.00	1024830.767	2442758.804
POT	62+50.00	1024849.186	2445108.732
PI	39+50.00	1024831.158	2442808.803

IL STATE PLANE WEST ZONE NAD83-1997 ADJ

33RD AVE

POT STA 39+00.00

-

33RD AVE

POT STA 62+50.00

-

33RD AVE

PI STA 39+50.00

-

MODEL: TR17 - Plan 1-2 [Sheet]
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ALIGNMENT, TIES, AND BENCHMARKS
TR17

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

F.A. I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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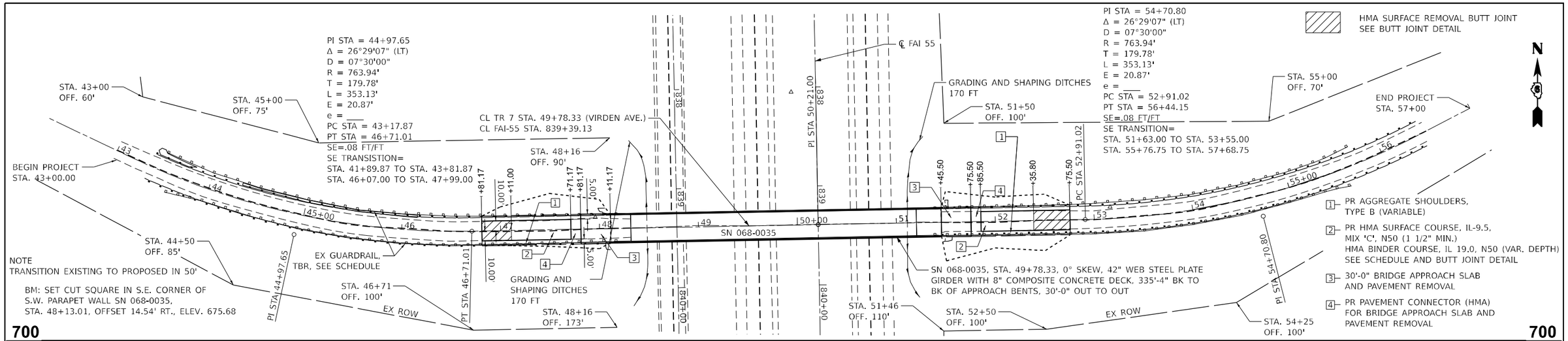
		CONTRACT NO. 72A59		
	ILLINOIS	FED. AID PROJECT		



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	DRAWN - MCE	REVISED -
PLOT SCALE = 0.16666633 ' / in.	CHECKED - MCB	REVISED -
PLOT DATE = 8/14/2024	DATE -	REVISED -

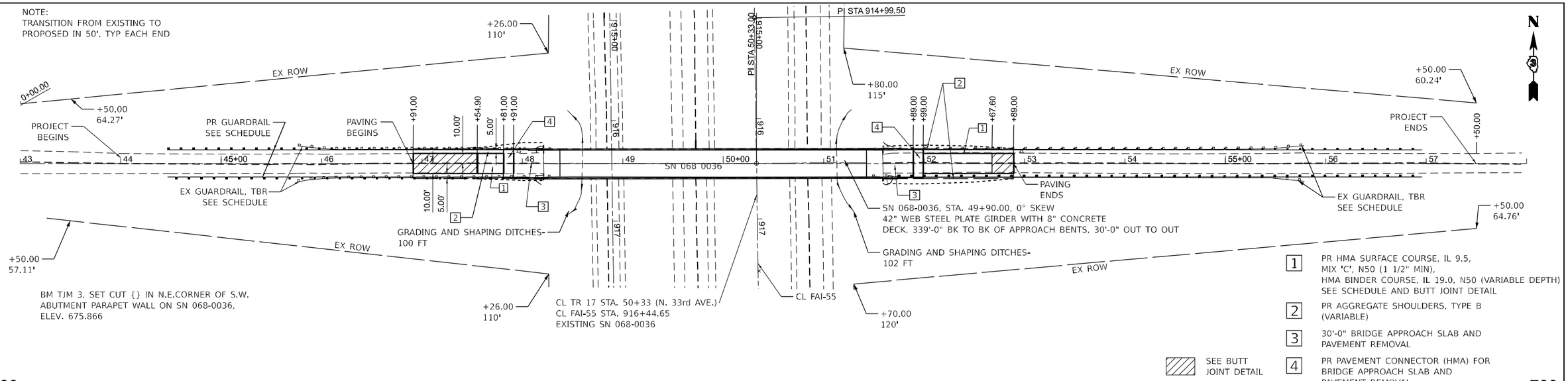
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

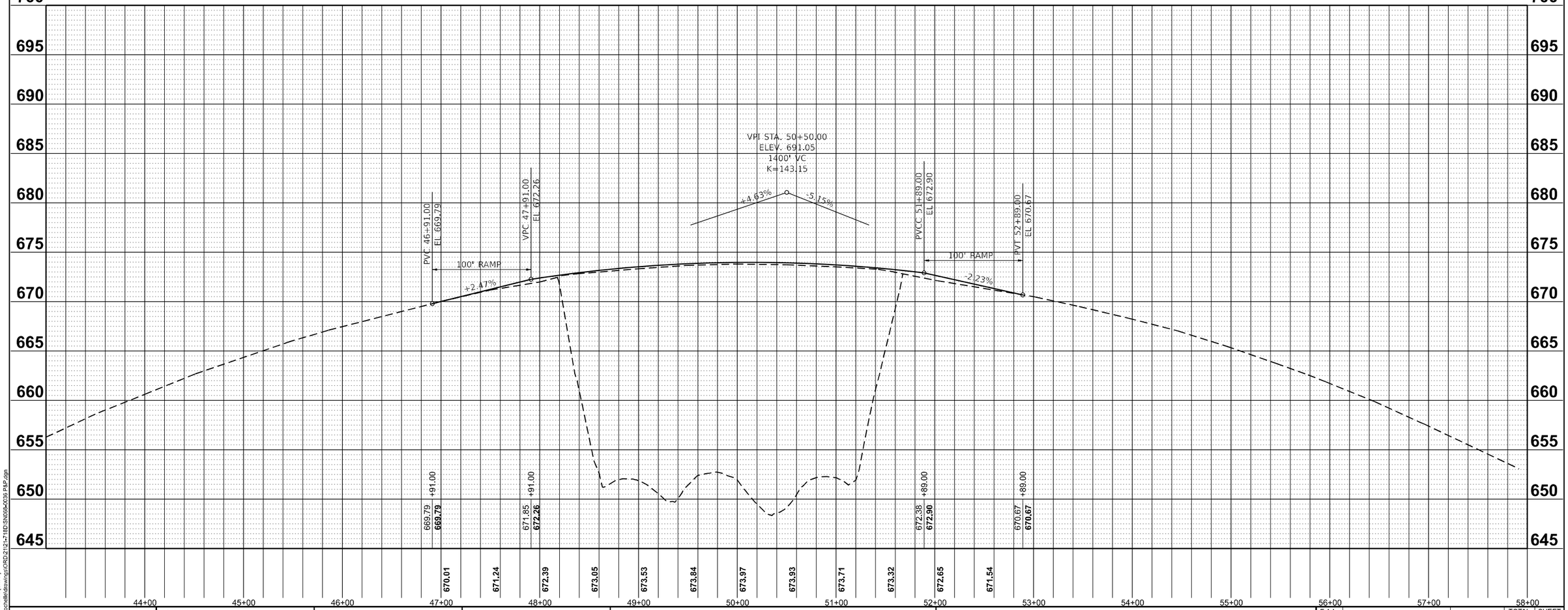
ROADWAY P&P
SN 068–0035

SCALE: 1"=50' | SHEET 01 OF 01 SHEETS | STA. | TO STA.

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(68-5HB-1,2)BRR,BY,D	MONTGOMERY	122	14
		CONTRACT NO. 72A59		
		ILLINOIS	FED. AID PROJECT	

NOTE:
TRANSITION FROM EXISTING TO PROPOSED IN 50'. TYP EACH END





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ENGINEERING & ENVIRONMENTAL
ILLINOIS DESIGN FIRM NO. 184-003535

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	DRAWN -	REVISED -
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PLOT DATE = 8/14/2024	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROADWAY P&P
SN 068–0036

SCALE: 1"=50' | SHEET 01 OF 01 SHEETS | STA. | TO STA.

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(68-5HB-1,2)BRR,BY,D	MONTGOMERY	122	15
		CONTRACT NO. 72A59		
	ILLINOIS	FED. AID PROJECT		

GENERAL NOTES

1) ALL SIGNS SHALL BE FURNISHED, ERECTED, AND MAINTAINED BY THE CONTRACTOR.
2) SUGGESTED SIGNING PLAN. SEE HIGHWAY STANDARD BLR-21 FOR MINIMUM REQUIRED SETUP.

SIGNAGE LEGEND

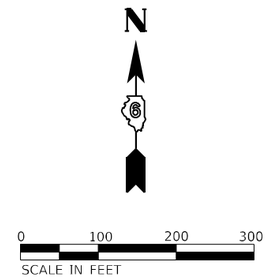
(A) TYPE III BARRICADES WITH R11-2(W) - 48"X30" AND FLASHING BI-DIRECTIONAL LIGHTS
2 EACH

(B) W20-3(O) - 48"X48" WITH STEADY BURNING BI-DIRECTIONAL LIGHTS
2 EACH

(C) W20-3(O) - 48"X48" WITH STEADY BURNING BI-DIRECTIONAL LIGHTS
2 EACH

(D) W20-3(O) - 48"X48" WITH STEADY BURNING BI-DIRECTIONAL LIGHTS WITH M5-1R(0) - 2115
1 EACH

(E) W20-3(O) - 48"X48" WITH STEADY BURNING BI-DIRECTIONAL LIGHTS WITH M5-1L(0) - 2115
1 EACH



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ILLINOIS DESIGN FIRM NO. 184-002925

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PLOT DATE = 8/14/2024	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TR 7, SN 068-0035
ROAD CLOSURE PLAN

SCALE: 1"=100' | SHEET 01 OF 06 SHEETS | STA. - | TO STA. -

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(68-5HB-1,2)BRR,BY,D	MONTGOMERY	122	16
		CONTRACT NO. 72A59		
	ILLINOIS FED. AID PROJECT			

GENERAL NOTES

1) ALL SIGNS SHALL BE FURNISHED, ERECTED, AND MAINTAINED BY THE CONTRACTOR.

2) SUGGESTED SIGNING PLAN. SEE IDOTE HIGHWAY STANDARD 701201-05 FOR MINIMUM REQUIRED SETUP.

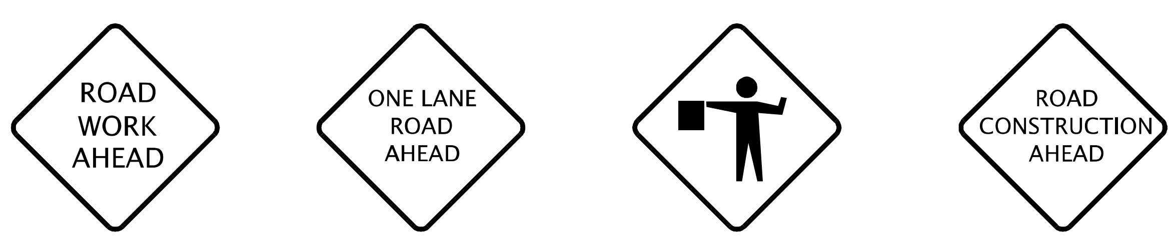
SIGNAGE LEGEND

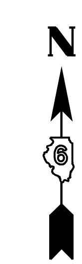
(A) W20-1(0)-48 - 48"X48"

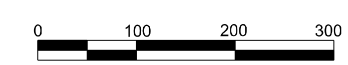
(B) W20-4(0)-48 - 48"X48"

(C) W20-7(0)-48 - 48"X48"

(D) W20-7(0)-48 - 48"X48"







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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TR 7, SN 068–0035
W FRONTAGE ROAD NB LANE ROAD CLOSURE PLAN

SCALE: 1"=100' | SHEET 02 OF 06 SHEETS | STA. - TO STA. -

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(68-5HB-1,2)BRR,BY,D	MONTGOMERY	122	17
		CONTRACT NO. 72A59		
	ILLINOIS	FED. AID PROJECT		

GENERAL NOTES

1) ALL SIGNS SHALL BE FURNISHED, ERECTED, AND MAINTAINED BY THE CONTRACTOR.

2) SUGGESTED SIGNING PLAN. SEE IDOTE HIGHWAY STANDARD 701201-05 FOR MINIMUM REQUIRED SETUP.

SIGNAGE LEGEND

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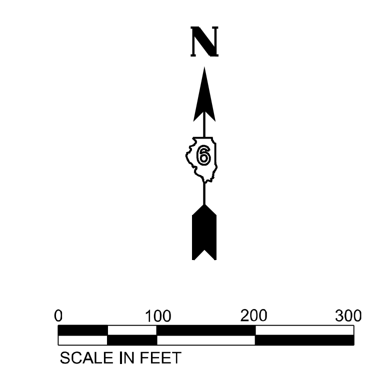
(B) W20-4(0)-48 - 48"X48"

(C) W20-7(0)-48 - 48"X48"

(D) W20-7(0)-48 - 48"X48"



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ILLINOIS DESIGN FIRM NO. 184-003525

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	DRAWN -	REVISED -
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PLOT DATE = 8/15/2024	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TR 7, SN 068–0035
W FRONTAGE ROAD SB LANE ROAD CLOSURE PLAN

SCALE: 1"=100' | SHEET 03 OF 06 SHEETS | STA. - TO STA. -

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(68-5HB-1,2)BRR,BY,D	MONTGOMERY	122	18
		CONTRACT NO. 72A59		
		ILLINOIS	FED. AID PROJECT	

GENERAL NOTES

1) ALL SIGNS SHALL BE FURNISHED, ERECTED, AND MAINTAINED BY THE CONTRACTOR.
2) SUGGESTED SIGNING PLAN. SEE HIGHWAY STANDARD BLR-21 FOR MINIMUM REQUIRED SETUP.

SIGNAGE LEGEND

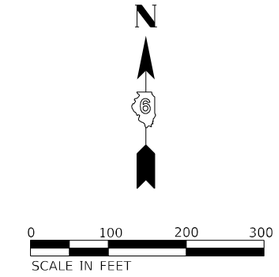
(A) TYPE III BARRICADES WITH R11-2(W) - 48"X30" AND FLASHING BI-DIRECTIONAL LIGHTS
2 EACH

(B) W20-3(O) - 48"X48" WITH STEADY BURNING BI-DIRECTIONAL LIGHTS
2 EACH

(C) W20-3(O) - 48"X48" WITH STEADY BURNING BI-DIRECTIONAL LIGHTS
2 EACH

(D) W20-3(O) - 48"X48" WITH STEADY BURNING BI-DIRECTIONAL LIGHTS WITH M5-1R(0) - 2115
2 EACH

(E) W20-3(O) - 48"X48" WITH STEADY BURNING BI-DIRECTIONAL LIGHTS WITH M5-1L(0) - 2115
1 EACH



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ILLINOIS DESIGN FIRM NO. 184-003535

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PLOT DATE = 8/14/2024	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TR 17, SN 068-0036
TR 17 ROAD CLOSURE PLAN

SCALE: 1"=100' | SHEET 04 OF 06 SHEETS | STA. - | TO STA. -

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(68-5HB-1,2)BRR,BY,D	MONTGOMERY	122	19
		CONTRACT NO. 72A59		
	ILLINOIS	FED. AID PROJECT		

Long Section Number

GENERAL NOTES

1) ALL SIGNS SHALL BE FURNISHED, ERECTED, AND MAINTAINED BY THE CONTRACTOR.

2) SUGGESTED SIGNING PLAN. SEE IDOT HIGHWAY STANDARD 701201-05 FOR MINIMUM REQUIRED SETUP.

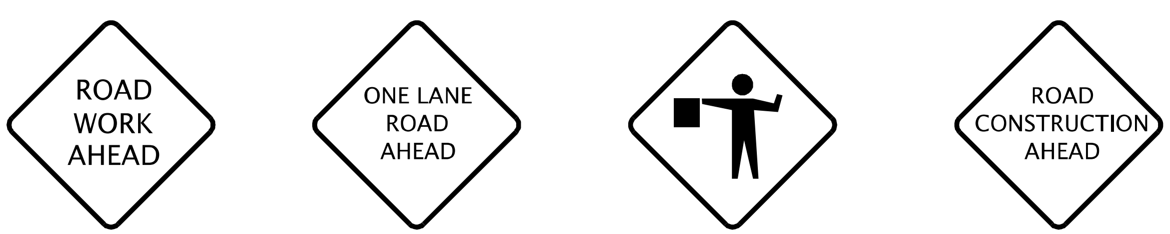
SIGNAGE LEGEND

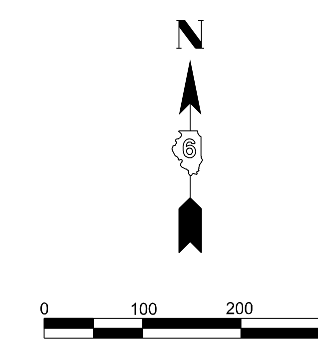
(A) W20-1(0)-48 - 48"X48"

(B) W20-4(0)-48 - 48"X48"

(C) W20-7(0)-48 - 48"X48"

(D) W20-7(0)-48 - 48"X48"





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		DRAWN -	REVISED -		
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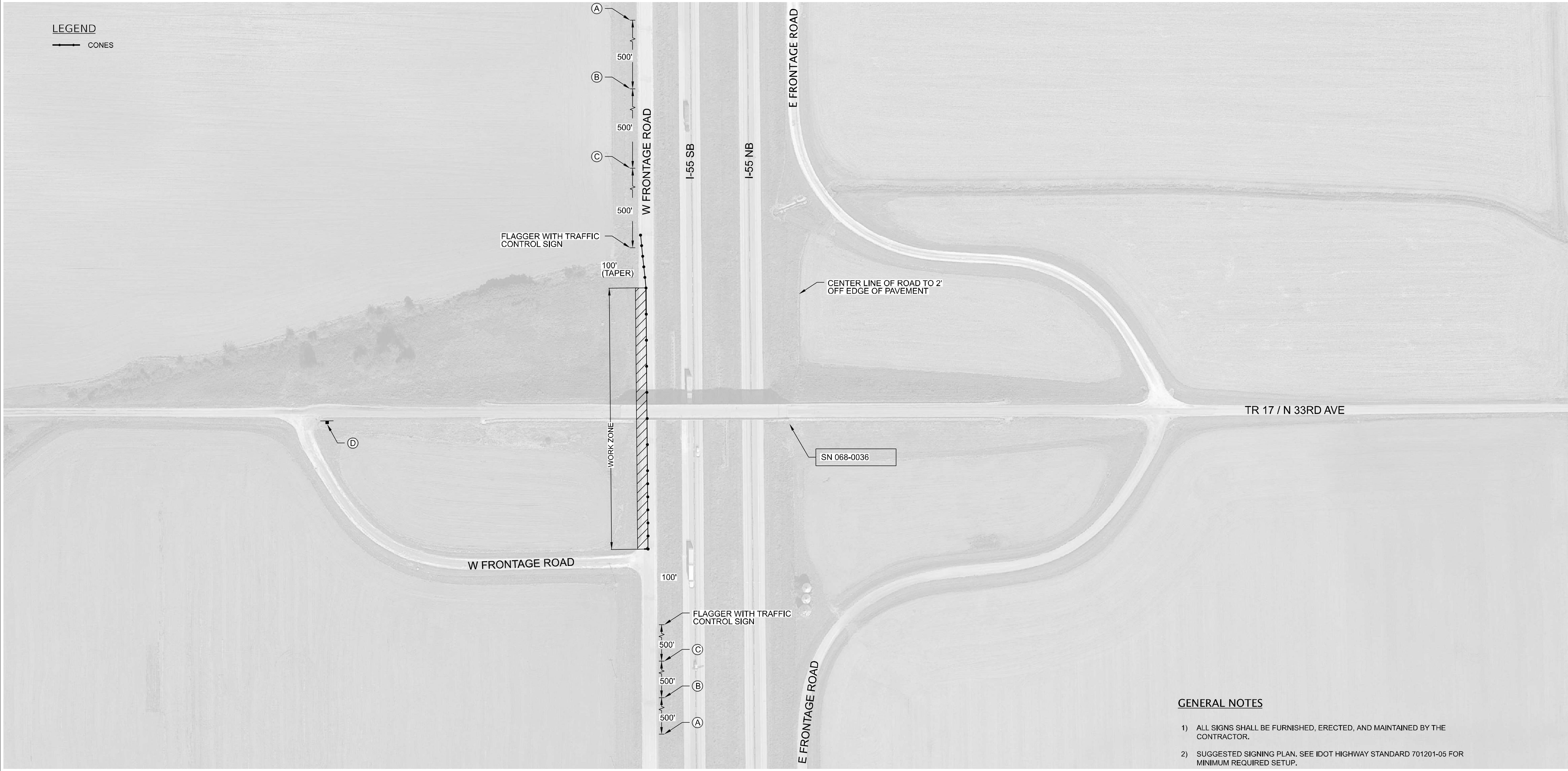
© 2024 FEHR GRAHAM	PLOT DATE = 8/15/2024	DATE -	REVISED -		SCALE: 1"=100' SHEET 05 OF 06 SHEETS STA. - TO STA. -

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(68-5HB-1,2)BRR,BY,D	MONTGOMERY	122	20
		CONTRACT NO. 72A59		
		ILLINOIS FED. AID PROJECT		

Long Section Number



GENERAL NOTES

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SIGNAGE LEGEND

(A) W20-1(0)-48 - 48"X48"

(B) W20-4(0)-48 - 48"X48"

(C) W20-7(0)-48 - 48"X48"

(D) W20-7(0)-48 - 48"X48"

N

0 100 200 300
SCALE IN FEET

MODEL: TR17 ROAD CLOSURE SB
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FEHR GRAHAM
ENGINEERING & ENVIRONMENTAL
ILLINOIS DESIGN FIRM NO. 184-003525

USER NAME = jason.dove	DESIGNED -	REVISED -	
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PLOT DATE = 8/15/2024	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TR 17, SN 068-0036
W FRONTAGE ROAD SB LANE CLOSURE PLAN

SCALE: 1"=100' | SHEET 06 OF 06 SHEETS | STA. - TO STA. -

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(68-5HB-1,2)BRR,BY,D	MONTGOMERY	122	21
		CONTRACT NO. 72A59		
	ILLINOIS	FED. AID PROJECT		

Long Section Number

Benchmark: Set cut square in S.E. corner of S.W. parapet wall of overpass SN. 068-0035 at Sta. 48+13.01, Offset 14.54' Rt., Elev. 675.68.

Existing Structure: SN 068-0035 was originally built in 1970 as FAI Rte. 55, Section 68-5HB-2. The structure is 335'-4" back-to-back of approach bents and 30'-0" out-to-out of deck. The structure consists of 3 span composite steel plate girders on vaulted abutments and 2 column piers. The vaulted spans are supported by PPC I-Beams. The structure will be rehabilitated as shown using road closure and a detour to maintain traffic during construction.

No Salvage.

DESIGN STRESSES

FIELD UNITS (New Construction)

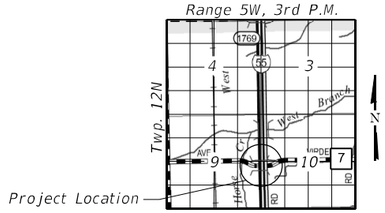
f'c = 3,500 psi (Substructure)
f'c = 4,000 psi (Superstructure)
fy = 60,000 psi (Reinforcement)
fy = 36,000 psi (M270 Grade 36)

PRECAST PRESTRESSED UNITS (New Construction)

f'c = 6,000 psi
f'ci = 5,000 psi
fpu = 270,000 psi (0.5"Ø low lax. strands)
fpbt = 201,960 psi (0.5"Ø low lax. strands)

FIELD UNITS (Exist. Construction)

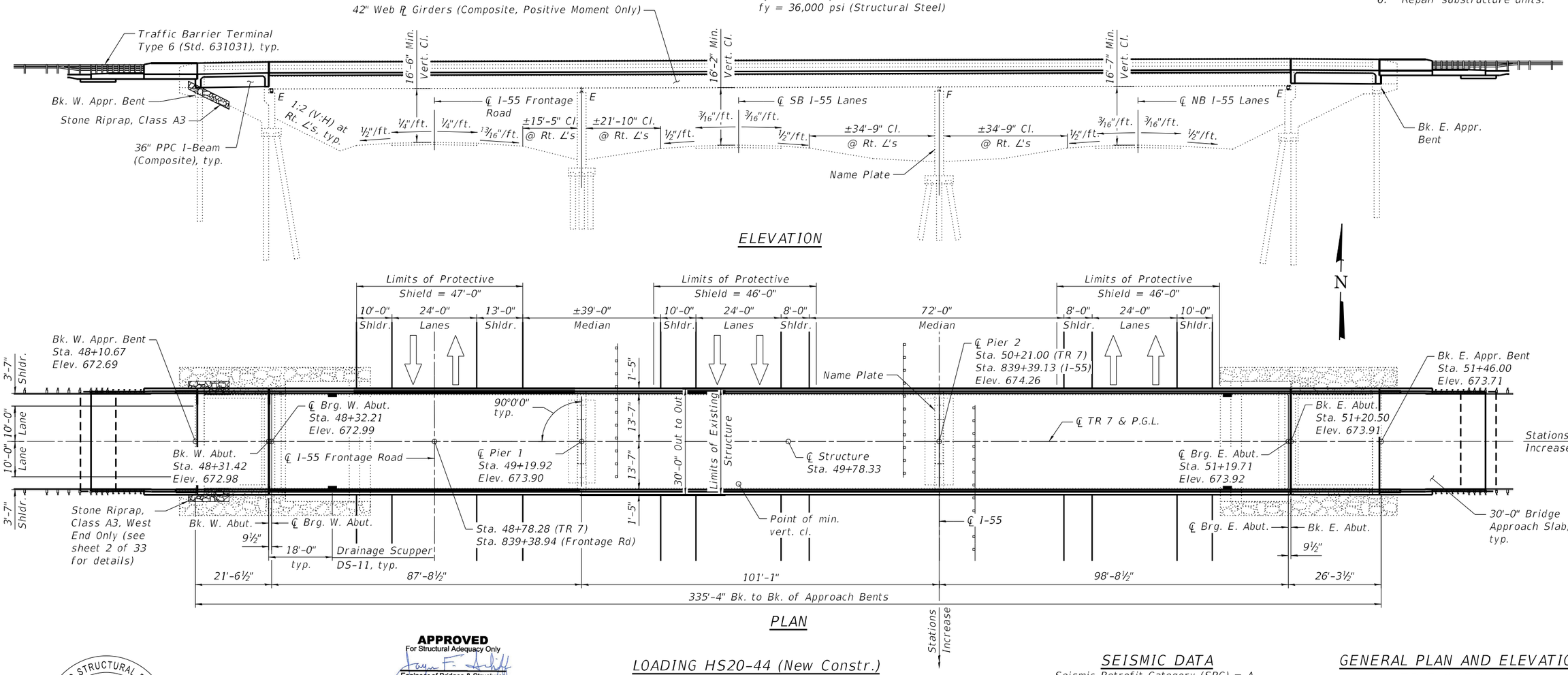
f'c = 3,500 psi (Substructure)
fy = 40,000 psi (Reinforcement)
fy = 36,000 psi (Structural Steel)



LOCATION SKETCH

SCOPE OF WORK

1. Remove and replace existing concrete deck.
2. Remove and replace the bearings with new elastomeric bearings at the abutments.
3. Remove and replace the diaphragms at the abutments.
4. Remove and replace the PPCI-Beam vaulted spans superstructure.
5. Raise the pier crash walls to be at least 5' above grade.
6. Repair substructure units.



ELEVATION

PLAN

APPROVED
For Structural Adequacy Only
Engineer of Bridges & Structures

LICENSED STRUCTURAL ENGINEER
ROBERT WHITESIDE
081-008015
STATE OF ILLINOIS

Robert Whiteside 10/03/2024

Robert Whiteside, Illinois S.E. 081-008015 Date
Expires 11/30/2026

LOADING HS20-44 (New Constr.)

Allow 25#/sq. ft. for future wearing surface.

DESIGN SPECIFICATIONS (New Constr.)

2002 AASHTO Standard Speficiations for Highway Bridges, 17th Edition

2006 Seismic Retrofitting Manual For Highway Structures: Part 1 - Bridges (FHWA-HRT-06-032)

SEISMIC DATA

Seismic Retrofit Category (SRC) = A
Design Spectral Acceleration at 1.0 sec (SD1) = 0.121g
Design Spectral Acceleration at 0.2 secs (SDS) = 0.249g
Soil Site Class = C
Performance Level = PL 1

GENERAL PLAN AND ELEVATION
TR 7 OVER I-55
F.A.I. RTE. 55
SECTION (68-5HB-1,2)BRR,BY,D
MONTGOMERY COUNTY
STA. 839+39.13
STRUCTURE NO. 068-0035

QUIGG ENGINEERING INC

USER NAME =	DESIGNED - CFS	REVISED -	
	CHECKED - RPW	REVISED -	
PLOT SCALE =	DRAWN - JDC	REVISED -	
PLOT DATE =	CHECKED - MDC	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN AND ELEVATION
STRUCTURE NO. 068-0035
SHEET 1 OF 33 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(68-5HB-1,2)BRR,BY,D	MONTGOMERY	122	22
		CONTRACT NO. 72A59		
		ILLINOIS	FED. AID PROJECT	

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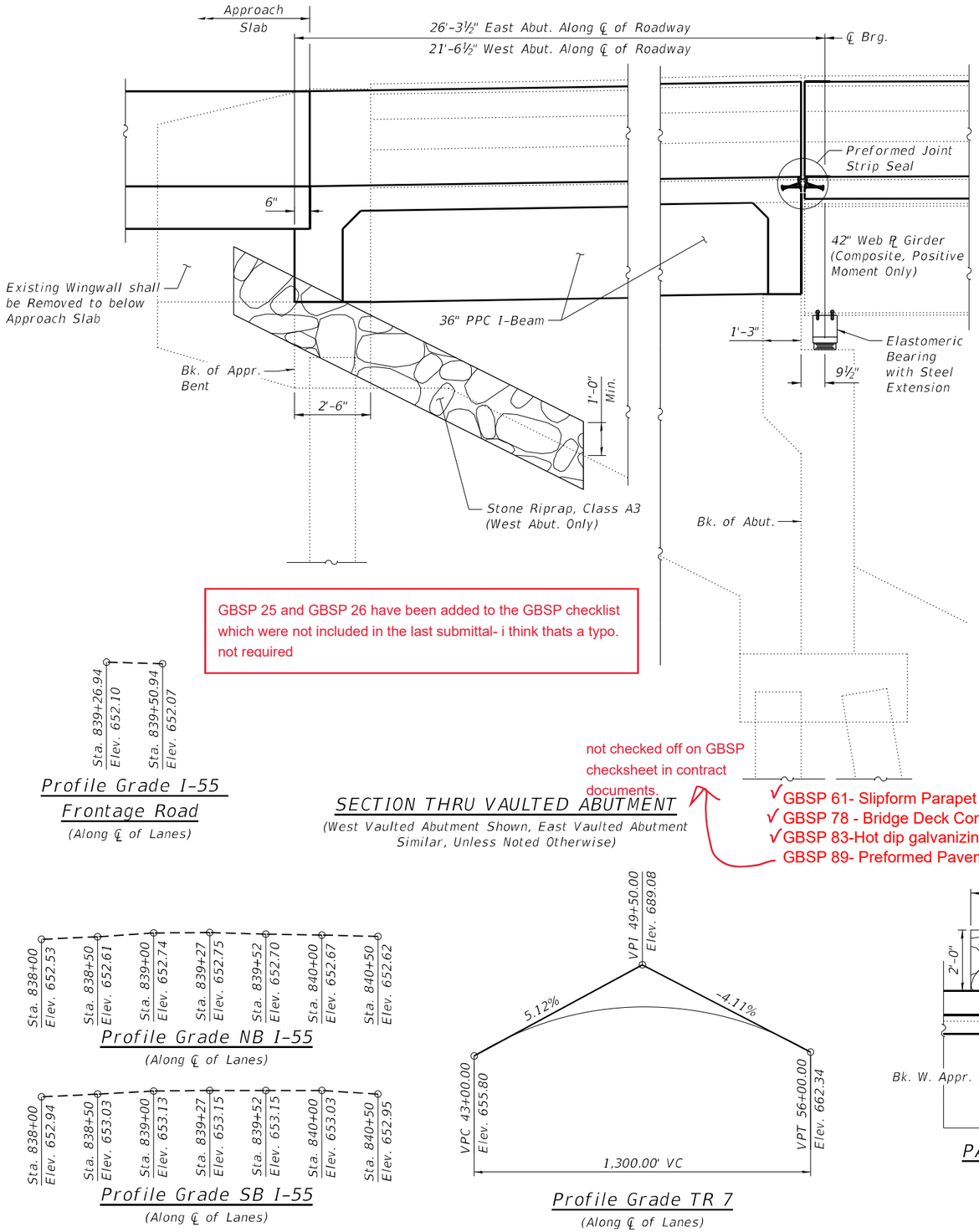
Concrete members have least width less than or equal to 5ft - no thermal control plan required



GBSP 25 and GBSP 26 have been added to the GBSP checklist which were not included in the last submittal- i think thats a typo. not required

INDEX OF SHEETS

GENERAL NOTES

Fasteners shall be ASTM F 3125 Grade A325 Type 1, mechanically galvanized bolts in painted areas. Bolts ¾ in. diameter, holes ¾ in. diameter, unless otherwise noted.

All structural steel shall be AASHTO M270 Grade 36 and shall be galvanized. See Special Provision for "Hot Dip Galvanizing for Structural Steel".

No field welding is permitted except as specified in the contract documents.

Reinforcement bars designated (E) shall be epoxy coated.

Prior to pouring the new concrete deck, all heavy or loose rust, loose mill scale, and other loose detrimental foreign material shall be removed from the surfaces in contact with concrete (SSPC – SP3 standards). Tightly adhered paint may remain unless otherwise noted. Removal shall be accomplished by methods that will not damage the steel and the cost will be paid for according to Article 109.04 of the Standard Specifications.

As directed by the Engineer, existing construction accessories welded to the top flange of beams and girders shall be removed. The weld areas shall be ground flush and inspected for cracks using magnetic particle testing (MT) or dye penetrant testing (PT) by qualified personnel approved by the Engineer. Any cracks that cannot be removed by grinding ¼ in. deep shall be identified and reported to the Bureau of Bridges & Structures for further disposition. The cost of removing welded accessories, grinding and inspecting weld areas and grinding cracks will be paid for according to Article 109.04 of the Standard Specifications.

Plan dimensions and details relative to the existing structure have been taken from existing plans are subject to nominal construction variations. The Contactor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.

Existing reinforcement shall be cleaned, straightened and incorporated into the new construction. Cost included with Concrete Removal.

The existing structural steel coating contains lead. The Contractor shall take appropriate precautions to address the presence of lead on this project.

The designated areas to be cleaned and painted and all new galvanized structural steel shall be painted according to the requirements of paint system I – OZ/E/U. The color of the final finish coat for the outside and bottom of the fascia beams shall be interstate green, Munsell No. 7.5G 4/8. All other surfaces shall be gray, Munsell 5B 7/1.

A film forming Concrete Sealer shall be applied to the front face of the proposed vaulted approach span diaphragms at both abutments.

STA. 839+39.13
RE-BUILT 202_ BY
STATE OF ILLINOIS
F.A.I. RT. 55 SEC. (68-5HB-1,2)BRR,BY,D
LOADING HS20-44
STR. NO. 068-0035

NAME PLATE

See Std. 515001

Place the Proposed Name Plate next to the Existing Name Plate. Cost included with Name Plates.

Profile Grade I-55 Frontage Road

(Along ℄ of Lanes)

SECTION THRU VAULTED ABUTMENT

(West Vaulted Abutment Shown, East Vaulted Abutment Similar, Unless Noted Otherwise)

not checked off on GBSP checksheet in contract documents.

✓GBSP 61- Slipform Parapet
✓GBSP 78 - Bridge Deck Construction
✓GBSP 83-Hot dip galvanizing for structural steel
GBSP 89- Preformed Pavement Joint Seal

Profile Grade NB I-55

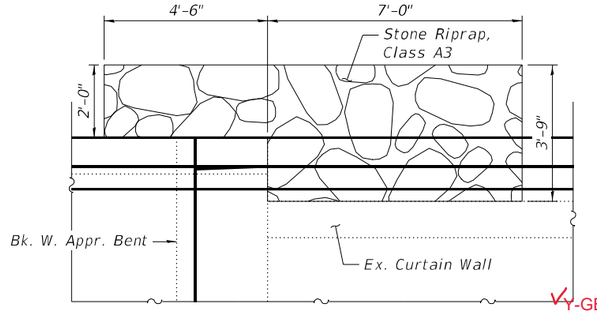
(Along ℄ of Lanes)

Profile Grade SB I-55

(Along ℄ of Lanes)

Profile Grade TR 7

(Along ℄ of Lanes)



PARTIAL PLAN OF RIPRAP AT APPROACH BENT AND CURTAIN WALL

Matches SOQ

TOTAL BILL OF MATERIAL

	ITEM	UNIT	SUPER	SUB	TOTAL
✓	Stone Riprap, Class A3	Sq. Yd.		9	9
✓	Concrete Removal	Cu. Yd.		5.4	5.4
✓	Removal of Existing Concrete Deck No. 1	Each	1		1
✓	Protective Shield	Sq. Yd.	464		464
✓	Concrete Structures	Cu. Yd.		27.4	27.4
✓	Concrete Superstructure	Cu. Yd.	381.9		381.9
✓	Bridge Deck Grooving	Sq. Yd.	1,102		1,102
✓	Protective Coat	Sq. Yd.	1,521		1,521
✓	Concrete Superstructure (Approach Slab)	Cu. Yd.	81.4		81.4
✓	Furnishing and Erecting Precast Prestressed Concrete I-Beams, 36 in.	Foot	132.0		132.0
✓	Furnishing and Erecting Structural Steel	Pound	3,600		3,600
✓	Stud Shear Connectors	Each	240		240
✓	Reinforcement Bars, Epoxy Coated	Pound	137,350	4,480	141,830
✓	Name Plates	Each	1139820 per SOQ		1
✓	Preformed Joint Strip Seal	Foot	58.5		58.5
✓	Elastomeric Bearing Assembly, Type I	Each	8		8
✓	Anchor Bolts, 3/4"	Each	32		32
✓	Concrete Sealer	Sq. Ft.	184		184
✓ Y-GBSP 14	Jack and Remove Existing Bearings	Each	8		8
✓ Y-SP	Structural Steel Removal	Pound	2,020		2,020
✓ Y-SP	Removal of Existing Concrete I-Beam	Each	6		6
✓ Y-GBSP 53	Structural Repair of Concrete (Depth Equal to or Less Than 5 Inches)	Sq. Ft.		24	24
✓	Drainage Scuppers, DS-11	Each	4		4
✓ Y-GBSP 100	Bar Terminators	Each	48		48

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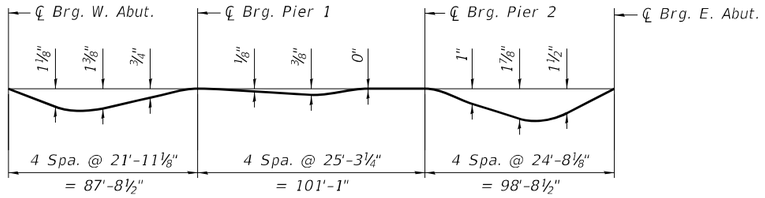
	CHECKED - RPW	REVISED -	
PLOT SCALE =	DRAWN - JDC	REVISED -	
PLOT DATE =	CHECKED - MDC	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL DATA
STRUCTURE NO. 068-0035
SHEET 2 OF 33 SHEETS

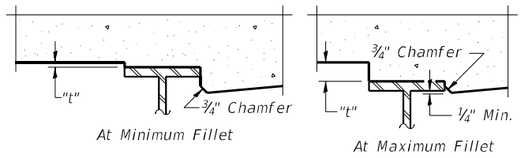
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(68-5HB-1,2)BRR,BY,D	MONTGOMERY	122	23
		CONTRACT NO. 72A59		
	ILLINOIS	FED. AID PROJECT		



DEAD LOAD DEFLECTION DIAGRAM

(Includes weight of concrete only.)

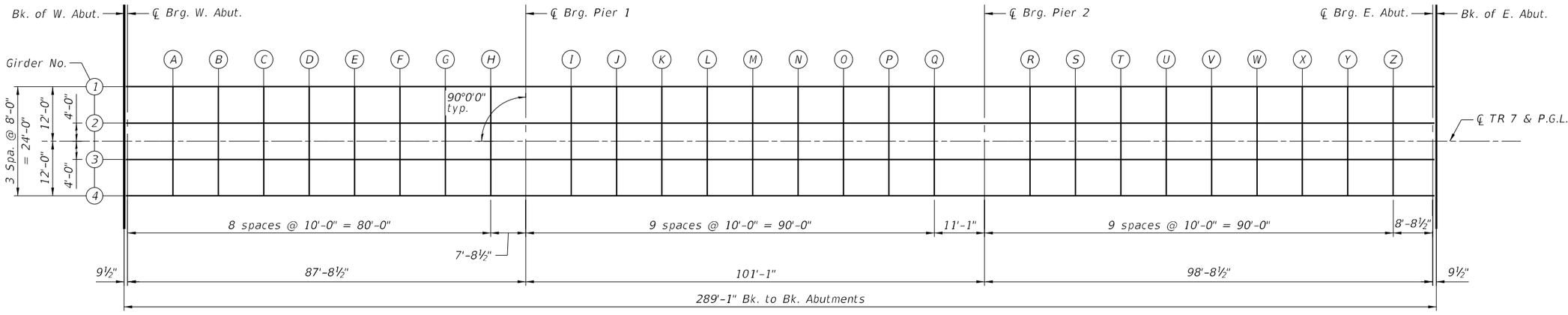
Note:
The above deflections are not to be used in the field if the engineer is working from the grade elevations adjusted for dead load deflections as shown on sheets 4 and 5 of 33.



To determine "t": After all structural steel has 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 sheets 4 and 5 of 33, minus slab thickness, equals the fillet heights "t" above top flange of beams.

FILLET HEIGHTS

N



PLAN

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QUIGG ENGINEERING INC

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PLOT DATE =	CHECKED - MDC	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TOP OF SLAB ELEVATIONS
STRUCTURE NO. 068-0035
SHEET 3 OF 33 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(68-5HB-1,2)BRR,BY,D	MONTGOMERY	122	24
		CONTRACT NO. 72A59		
	ILLINOIS	FED. AID PROJECT		

GIRDER 1

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. of W. Abut.	48+31.42	-12.00	672.79	672.79
℄ Brg. W. Abut.	48+32.21	-12.00	672.80	672.80
A	48+42.21	-12.00	672.93	672.98
B	48+52.21	-12.00	673.06	673.14
C	48+62.21	-12.00	673.17	673.27
D	48+72.21	-12.00	673.28	673.39
E	48+82.21	-12.00	673.39	673.48
F	48+92.21	-12.00	673.48	673.55
G	49+02.21	-12.00	673.57	673.61
H	49+12.21	-12.00	673.65	673.66
℄ Brg. Pier 1	49+19.92	-12.00	673.71	673.71
I	49+29.92	-12.00	673.78	673.77
J	49+39.92	-12.00	673.84	673.84
K	49+49.92	-12.00	673.89	673.90
L	49+59.92	-12.00	673.94	673.96
M	49+69.92	-12.00	673.98	674.00
N	49+79.92	-12.00	674.01	674.03
O	49+89.92	-12.00	674.04	674.04
P	49+99.92	-12.00	674.05	674.05
Q	50+09.92	-12.00	674.07	674.06
℄ Brg. Pier 2	50+21.00	-12.00	674.07	674.07
R	50+31.00	-12.00	674.07	674.09
S	50+41.00	-12.00	674.06	674.12
T	50+51.00	-12.00	674.04	674.13
U	50+61.00	-12.00	674.01	674.14
V	50+71.00	-12.00	673.98	674.13
W	50+81.00	-12.00	673.94	674.09
X	50+91.00	-12.00	673.90	674.03
Y	51+01.00	-12.00	673.84	673.94
Z	51+11.00	-12.00	673.78	673.83
℄ Brg. E. Abut.	51+19.71	-12.00	673.73	673.73
Bk. of E. Abut.	51+20.50	-12.00	673.72	673.72

GIRDER 2

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. of W. Abut.	48+31.42	-4.00	672.92	672.92
℄ Brg. W. Abut.	48+32.21	-4.00	672.93	672.93
A	48+42.21	-4.00	673.06	673.11
B	48+52.21	-4.00	673.19	673.27
C	48+62.21	-4.00	673.30	673.41
D	48+72.21	-4.00	673.41	673.53
E	48+82.21	-4.00	673.52	673.62
F	48+92.21	-4.00	673.61	673.69
G	49+02.21	-4.00	673.70	673.75
H	49+12.21	-4.00	673.78	673.80
℄ Brg. Pier 1	49+19.92	-4.00	673.84	673.84
I	49+29.92	-4.00	673.91	673.90
J	49+39.92	-4.00	673.97	673.97
K	49+49.92	-4.00	674.02	674.03
L	49+59.92	-4.00	674.07	674.09
M	49+69.92	-4.00	674.11	674.13
N	49+79.92	-4.00	674.14	674.16
O	49+89.92	-4.00	674.17	674.17
P	49+99.92	-4.00	674.18	674.18
Q	50+09.92	-4.00	674.20	674.19
℄ Brg. Pier 2	50+21.00	-4.00	674.20	674.20
R	50+31.00	-4.00	674.20	674.22
S	50+41.00	-4.00	674.19	674.25
T	50+51.00	-4.00	674.17	674.27
U	50+61.00	-4.00	674.14	674.28
V	50+71.00	-4.00	674.11	674.27
W	50+81.00	-4.00	674.07	674.23
X	50+91.00	-4.00	674.03	674.17
Y	51+01.00	-4.00	673.97	674.08
Z	51+11.00	-4.00	673.91	673.97
℄ Brg. E. Abut.	51+19.71	-4.00	673.86	673.86
Bk. of E. Abut.	51+20.50	-4.00	673.85	673.85

℄ TR 7 & P.G.L.

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. of W. Abut.	48+31.42	0.00	672.98	672.98
℄ Brg. W. Abut.	48+32.21	0.00	672.99	672.99
A	48+42.21	0.00	673.12	673.17
B	48+52.21	0.00	673.25	673.33
C	48+62.21	0.00	673.36	673.47
D	48+72.21	0.00	673.47	673.59
E	48+82.21	0.00	673.58	673.68
F	48+92.21	0.00	673.67	673.75
G	49+02.21	0.00	673.76	673.81
H	49+12.21	0.00	673.84	673.86
℄ Brg. Pier 1	49+19.92	0.00	673.90	673.90
I	49+29.92	0.00	673.97	673.96
J	49+39.92	0.00	674.03	674.03
K	49+49.92	0.00	674.08	674.09
L	49+59.92	0.00	674.13	674.15
M	49+69.92	0.00	674.17	674.19
N	49+79.92	0.00	674.20	674.22
O	49+89.92	0.00	674.23	674.23
P	49+99.92	0.00	674.24	674.24
Q	50+09.92	0.00	674.26	674.25
℄ Brg. Pier 2	50+21.00	0.00	674.26	674.26
R	50+31.00	0.00	674.26	674.28
S	50+41.00	0.00	674.25	674.31
T	50+51.00	0.00	674.23	674.33
U	50+61.00	0.00	674.20	674.34
V	50+71.00	0.00	674.17	674.33
W	50+81.00	0.00	674.13	674.29
X	50+91.00	0.00	674.09	674.23
Y	51+01.00	0.00	674.03	674.14
Z	51+11.00	0.00	673.97	674.03
℄ Brg. E. Abut.	51+19.71	0.00	673.92	673.92
Bk. of E. Abut.	51+20.50	0.00	673.91	673.91

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PLOT DATE =	CHECKED - MDC	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TOP OF SLAB ELEVATIONS
STRUCTURE NO. 068-0035
SHEET 4 OF 33 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(68-5HB-1,2)BRR,BY,D	MONTGOMERY	122	25
		CONTRACT NO. 72A59		
	ILLINOIS	FED. AID PROJECT		

GIRDER 3

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. of W. Abut.	48+31.42	4.00	672.92	672.92
℄ Brg. W. Abut.	48+32.21	4.00	672.93	672.93
A	48+42.21	4.00	673.06	673.11
B	48+52.21	4.00	673.19	673.27
C	48+62.21	4.00	673.30	673.41
D	48+72.21	4.00	673.41	673.53
E	48+82.21	4.00	673.52	673.62
F	48+92.21	4.00	673.61	673.69
G	49+02.21	4.00	673.70	673.75
H	49+12.21	4.00	673.78	673.80
℄ Brg. Pier 1	49+19.92	4.00	673.84	673.84
I	49+29.92	4.00	673.91	673.90
J	49+39.92	4.00	673.97	673.97
K	49+49.92	4.00	674.02	674.03
L	49+59.92	4.00	674.07	674.09
M	49+69.92	4.00	674.11	674.13
N	49+79.92	4.00	674.14	674.16
O	49+89.92	4.00	674.17	674.17
P	49+99.92	4.00	674.18	674.18
Q	50+09.92	4.00	674.20	674.19
℄ Brg. Pier 2	50+21.00	4.00	674.20	674.20
R	50+31.00	4.00	674.20	674.22
S	50+41.00	4.00	674.19	674.25
T	50+51.00	4.00	674.17	674.27
U	50+61.00	4.00	674.14	674.28
V	50+71.00	4.00	674.11	674.27
W	50+81.00	4.00	674.07	674.23
X	50+91.00	4.00	674.03	674.17
Y	51+01.00	4.00	673.97	674.08
Z	51+11.00	4.00	673.91	673.97
℄ Brg. E. Abut.	51+19.71	4.00	673.86	673.86
Bk. of E. Abut.	51+20.50	4.00	673.85	673.85

GIRDER 4

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. of W. Abut.	48+31.42	12.00	672.79	672.79
℄ Brg. W. Abut.	48+32.21	12.00	672.80	672.80
A	48+42.21	12.00	672.93	672.98
B	48+52.21	12.00	673.06	673.14
C	48+62.21	12.00	673.17	673.27
D	48+72.21	12.00	673.28	673.39
E	48+82.21	12.00	673.39	673.48
F	48+92.21	12.00	673.48	673.55
G	49+02.21	12.00	673.57	673.61
H	49+12.21	12.00	673.65	673.66
℄ Brg. Pier 1	49+19.92	12.00	673.71	673.71
I	49+29.92	12.00	673.78	673.77
J	49+39.92	12.00	673.84	673.84
K	49+49.92	12.00	673.89	673.90
L	49+59.92	12.00	673.94	673.96
M	49+69.92	12.00	673.98	674.00
N	49+79.92	12.00	674.01	674.03
O	49+89.92	12.00	674.04	674.04
P	49+99.92	12.00	674.05	674.05
Q	50+09.92	12.00	674.07	674.06
℄ Brg. Pier 2	50+21.00	12.00	674.07	674.07
R	50+31.00	12.00	674.07	674.09
S	50+41.00	12.00	674.06	674.12
T	50+51.00	12.00	674.04	674.13
U	50+61.00	12.00	674.01	674.14
V	50+71.00	12.00	673.98	674.13
W	50+81.00	12.00	673.94	674.09
X	50+91.00	12.00	673.90	674.03
Y	51+01.00	12.00	673.84	673.94
Z	51+11.00	12.00	673.78	673.83
℄ Brg. E. Abut.	51+19.71	12.00	673.73	673.73
Bk. of E. Abut.	51+20.50	12.00	673.72	673.72

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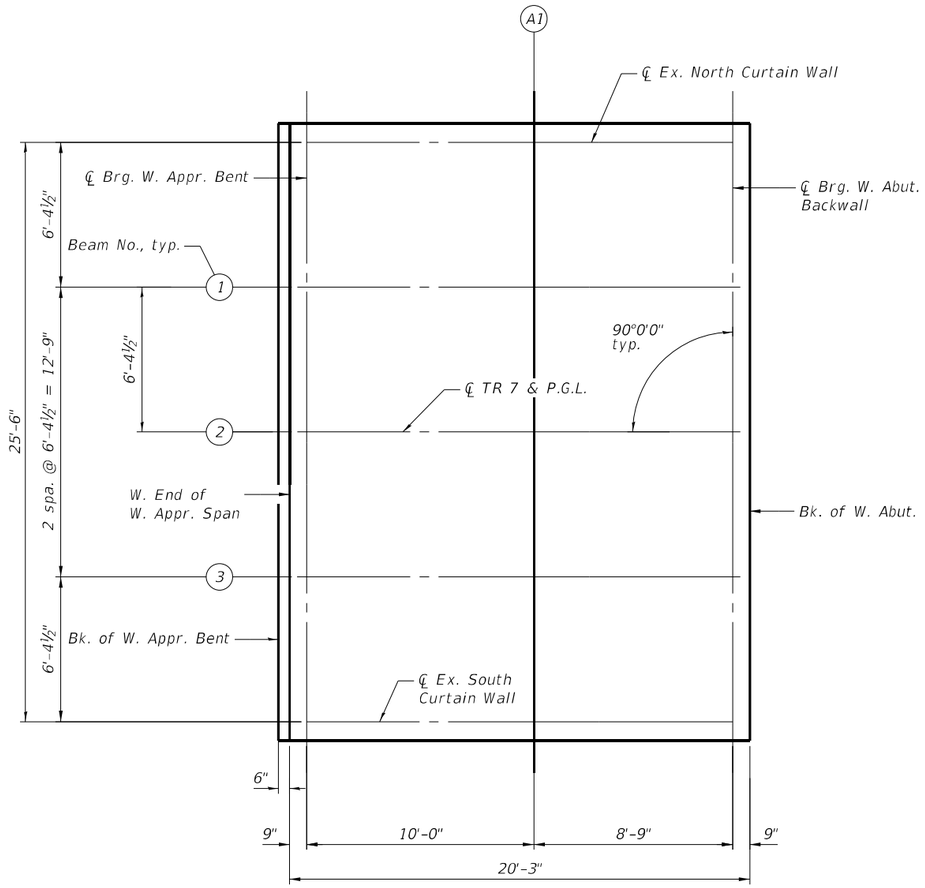
PLOT DATE =	CHECKED - MDC	REVISED -	

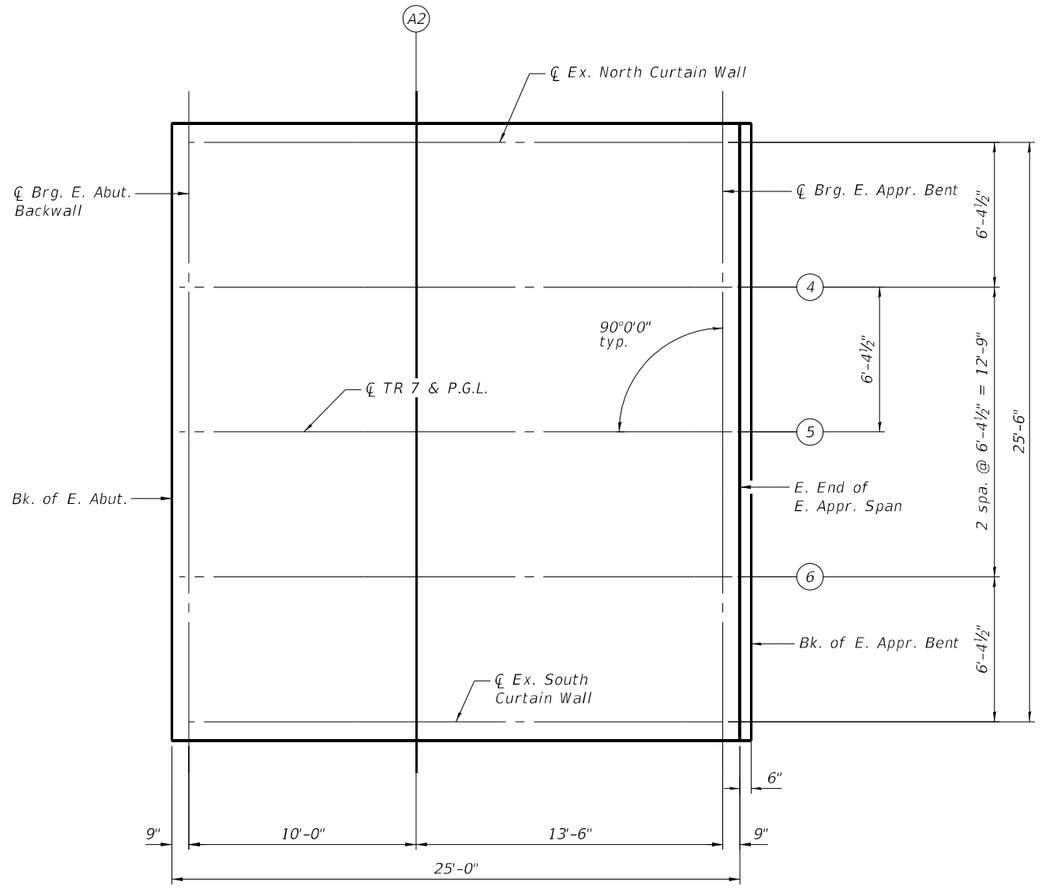
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TOP OF SLAB ELEVATIONS
STRUCTURE NO. 068-0035
SHEET 5 OF 33 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(68-5HB-1,2)BRR,BY,D	MONTGOMERY	122	26
		CONTRACT NO. 72A59		
	ILLINOIS	FED. AID PROJECT		



WEST VAULTED APPROACH SPAN PLAN



EAST VAULTED APPROACH SPAN PLAN

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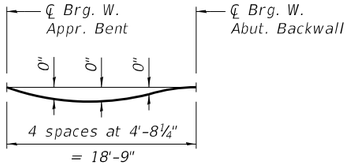
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

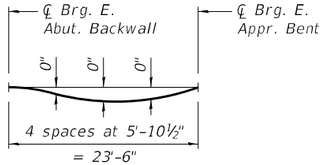
TOP OF VAULTED APPROACH SPAN ELEVATIONS
STRUCTURE NO. 068-0035
SHEET 6 OF 33 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(68-5HB-1,2)BRR,BY,D	MONTGOMERY	122	27
		CONTRACT NO. 72A59		
	ILLINOIS	FED. AID PROJECT		



WEST APPROACH SPAN DEAD LOAD DEFLECTION DIAGRAM

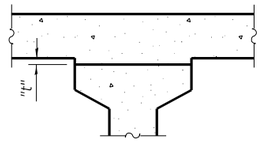
(Includes weight of concrete only, excluding beams.)



EAST APPROACH SPAN DEAD LOAD DEFLECTION DIAGRAM

(Includes weight of concrete only, 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 below.



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

FILLET HEIGHTS (APPROACH SPANS)

WEST APPROACH SPAN NORTH CURTAIN WALL

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. of W. Appr. Bent	48+10.67	-12.75	672.48	672.48
℄ Brg. W. Appr. Bent	48+11.92	-12.75	672.50	672.50
A1	48+21.92	-12.75	672.65	672.65
℄ Brg. W. Abut. Backwall	48+30.67	-12.75	672.77	672.77
Bk. of W. Abut.	48+31.42	-12.75	672.78	672.78

BEAM 1

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. of W. Appr. Bent	48+10.67	-6.38	672.59	672.59
℄ Brg. W. Appr. Bent	48+11.92	-6.38	672.61	672.61
A1	48+21.92	-6.38	672.76	672.76
℄ Brg. W. Abut. Backwall	48+30.67	-6.38	672.88	672.88
Bk. of W. Abut.	48+31.42	-6.38	672.89	672.89

℄ TR 7, P.G.L., & BEAM 2

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. of W. Appr. Bent	48+10.67	0.00	672.69	672.69
℄ Brg. W. Appr. Bent	48+11.92	0.00	672.71	672.71
A1	48+21.92	0.00	672.85	672.85
℄ Brg. W. Abut. Backwall	48+30.67	0.00	672.97	672.97
Bk. of W. Abut.	48+31.42	0.00	672.98	672.98

BEAM 3

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. of W. Appr. Bent	48+10.67	6.38	672.59	672.59
℄ Brg. W. Appr. Bent	48+11.92	6.38	672.61	672.61
A1	48+21.92	6.38	672.76	672.76
℄ Brg. W. Abut. Backwall	48+30.67	6.38	672.88	672.88
Bk. of W. Abut.	48+31.42	6.38	672.89	672.89

WEST APPROACH SPAN SOUTH CURTAIN WALL

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. of W. Appr. Bent	48+10.67	12.75	672.48	672.48
℄ Brg. W. Appr. Bent	48+11.92	12.75	672.50	672.50
A1	48+21.92	12.75	672.65	672.65
℄ Brg. W. Abut. Backwall	48+30.67	12.75	672.77	672.77
Bk. of W. Abut.	48+31.42	12.75	672.78	672.78

EAST APPROACH SPAN NORTH CURTAIN WALL

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. of E. Abut.	51+20.50	-12.75	673.71	673.71
℄ Brg. E. Abut. Backwall	51+21.25	-12.75	673.70	673.70
A2	51+31.25	-12.75	673.63	673.63
℄ Brg. E. Appr. Bent	51+44.75	-12.75	673.51	673.51
Bk. of E. Appr. Bent	51+46.00	-12.75	673.50	673.50

BEAM 4

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. of E Abut.	51+20.50	-6.38	673.81	673.81
℄ Brg. E. Abut. Backwall	51+21.25	-6.38	673.81	673.81
A2	51+31.25	-6.38	673.73	673.74
℄ Brg. E. Appr. Bent	51+44.75	-6.38	673.62	673.62
Bk. of E. Appr. Bent	51+46.00	-6.38	673.61	673.61

℄ TR 7, P.G.L., & BEAM 5

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. of E. Abut.	51+20.50	0.00	673.91	673.91
℄ Brg. E. Abut. Backwall	51+21.25	0.00	673.90	673.90
A2	51+31.25	0.00	673.83	673.83
℄ Brg. E. Appr. Bent	51+44.75	0.00	673.72	673.72
Bk. of E. Appr. Bent	51+46.00	0.00	673.71	673.71

BEAM 6

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. of E. Abut.	51+20.50	6.38	673.81	673.81
℄ Brg. E. Abut. Backwall	51+21.25	6.38	673.81	673.81
A2	51+31.25	6.38	673.73	673.74
℄ Brg. E. Appr. Bent	51+44.75	6.38	673.62	673.62
Bk. of E. Appr. Bent	51+46.00	6.38	673.61	673.61

EAST APPROACH SPAN SOUTH CURTAIN WALL

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. of E. Abut.	51+20.50	12.75	673.71	673.71
℄ Brg. E. Abut. Backwall	51+21.25	12.75	673.70	673.70
A2	51+31.25	12.75	673.63	673.63
℄ Brg. E. Appr. Bent	51+44.75	12.75	673.51	673.51
Bk. of E. Appr. Bent	51+46.00	12.75	673.50	673.50

E-S 2-17-2017

QUIGG ENGINEERING INC

USER NAME =	DESIGNED - CFS	REVISED -
	CHECKED - RPW	REVISED -
PLOT SCALE =	DRAWN - JDC	REVISED -
PLOT DATE =	CHECKED - MDC	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TOP OF VAULTED APPROACH SPAN ELEVATIONS
STRUCTURE NO. 068-0035
SHEET 7 OF 33 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(68-5HB-1,2)BRR,BY,D	MONTGOMERY	122	28
		CONTRACT NO. 72A59		
	ILLINOIS	FED. AID PROJECT		

MODEL: Default
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10/8/2024 2:45:39 PM

NORTH EDGE OF SHOULDER

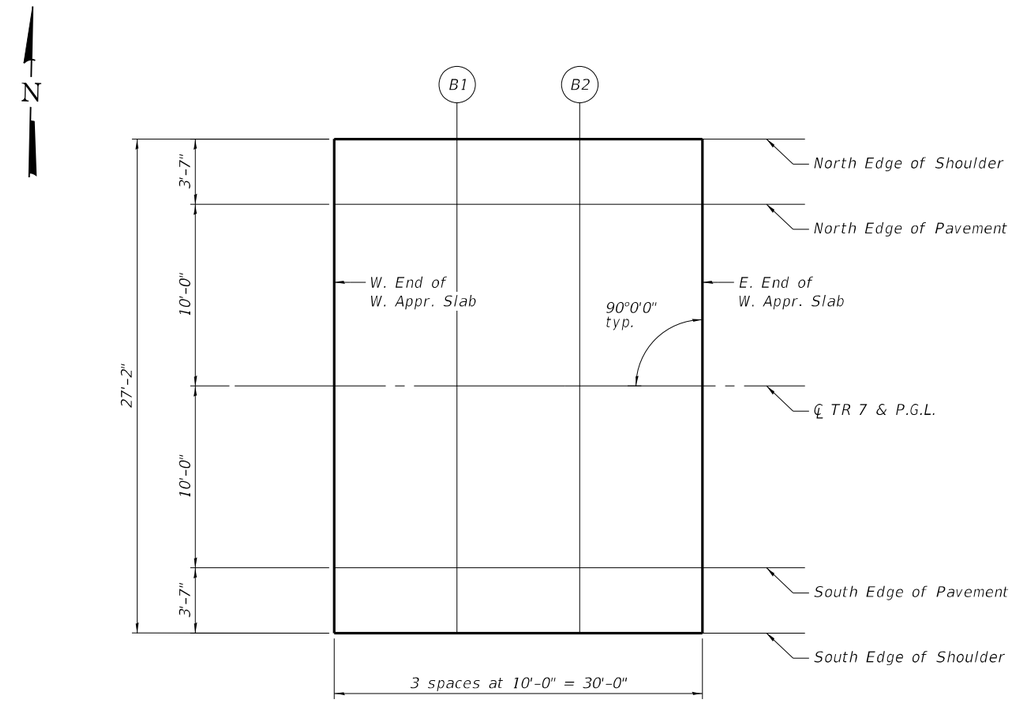
Location	Station	Offset	Theoretical Grade Elevations
W. End W. Approach Slab	47+81.17	-13.58	672.00
B1	47+91.17	-13.58	672.16
B2	48+01.17	-13.58	672.32
E. End W. Approach Slab	48+11.17	-13.58	672.47

NORTH EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
W. End W. Approach Slab	47+81.17	-10.00	672.07
B1	47+91.17	-10.00	672.23
B2	48+01.17	-10.00	672.39
E. End W. Approach Slab	48+11.17	-10.00	672.55

℄ TR 7 & P.G.L.

Location	Station	Offset	Theoretical Grade Elevations
W. End W. Approach Slab	47+81.17	0.00	672.22
B1	47+91.17	0.00	672.38
B2	48+01.17	0.00	672.54
E. End W. Approach Slab	48+11.17	0.00	672.70



PLAN

SOUTH EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
W. End W. Approach Slab	47+81.17	10.00	672.07
B1	47+91.17	10.00	672.23
B2	48+01.17	10.00	672.39
E. End W. Approach Slab	48+11.17	10.00	672.55

SOUTH EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations
W. End W. Approach Slab	47+81.17	13.58	672.00
B1	47+91.17	13.58	672.16
B2	48+01.17	13.58	672.32
E. End W. Approach Slab	48+11.17	13.58	672.47

MODEL: Default
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QUIGG ENGINEERING INC

USER NAME =	DESIGNED - CFS	REVISED -	
	CHECKED - RPW	REVISED -	
PLOT SCALE =	DRAWN - JDC	REVISED -	
PLOT DATE =	CHECKED - MDC	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TOP OF WEST APPROACH SLAB ELEVATIONS
STRUCTURE NO. 068-0035
SHEET 8 OF 33 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(68-5HB-1,2)BRR,BY,D	MONTGOMERY	122	29
		CONTRACT NO. 72A59		
	ILLINOIS	FED. AID PROJECT		

NORTH EDGE OF SHOULDER

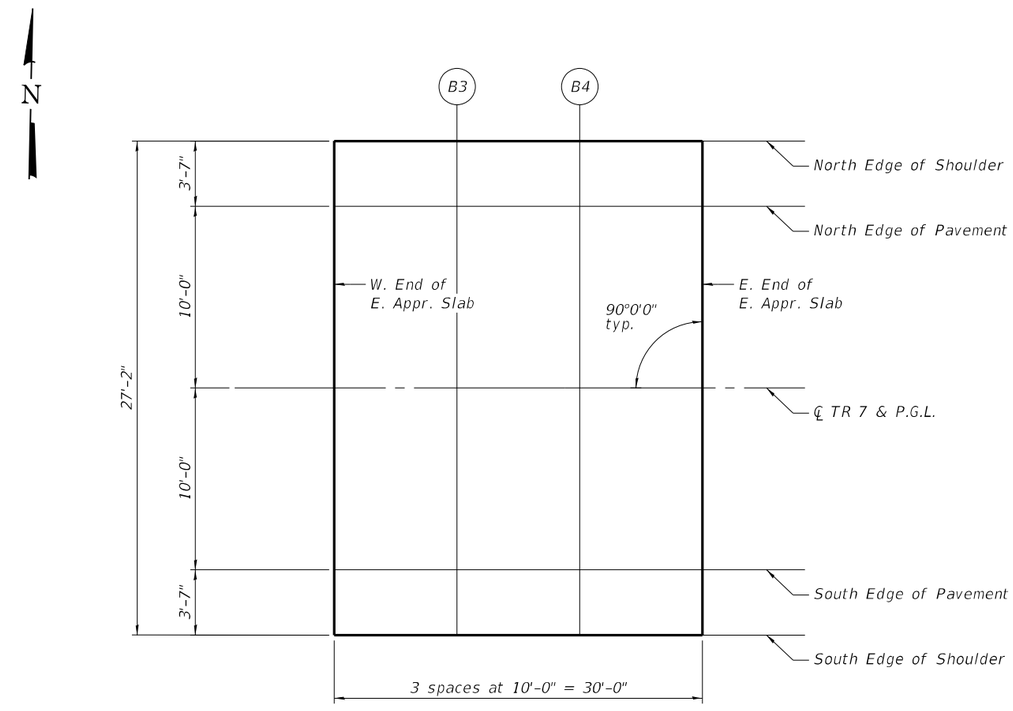
Location	Station	Offset	Theoretical Grade Elevations
W. End E. Approach Slab	51+45.50	-13.58	673.49
B3	51+55.50	-13.58	673.40
B4	51+65.50	-13.58	673.30
E. End E. Approach Slab	51+75.50	-13.58	673.19

NORTH EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
W. End E. Approach Slab	51+45.50	-10.00	673.56
B3	51+55.50	-10.00	673.47
B4	51+65.50	-10.00	673.37
E. End E. Approach Slab	51+75.50	-10.00	673.26

℄ TR 7 & P.G.L.

Location	Station	Offset	Theoretical Grade Elevations
W. End E. Approach Slab	51+45.50	0.00	673.71
B3	51+55.50	0.00	673.62
B4	51+65.50	0.00	673.52
E. End E. Approach Slab	51+75.50	0.00	673.41



PLAN

SOUTH EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
W. End E. Approach Slab	51+45.50	10.00	673.56
B3	51+55.50	10.00	673.47
B4	51+65.50	10.00	673.37
E. End E. Approach Slab	51+75.50	10.00	673.26

SOUTH EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations
W. End E. Approach Slab	51+45.50	13.58	673.49
B3	51+55.50	13.58	673.40
B4	51+65.50	13.58	673.30
E. End E. Approach Slab	51+75.50	13.58	673.19

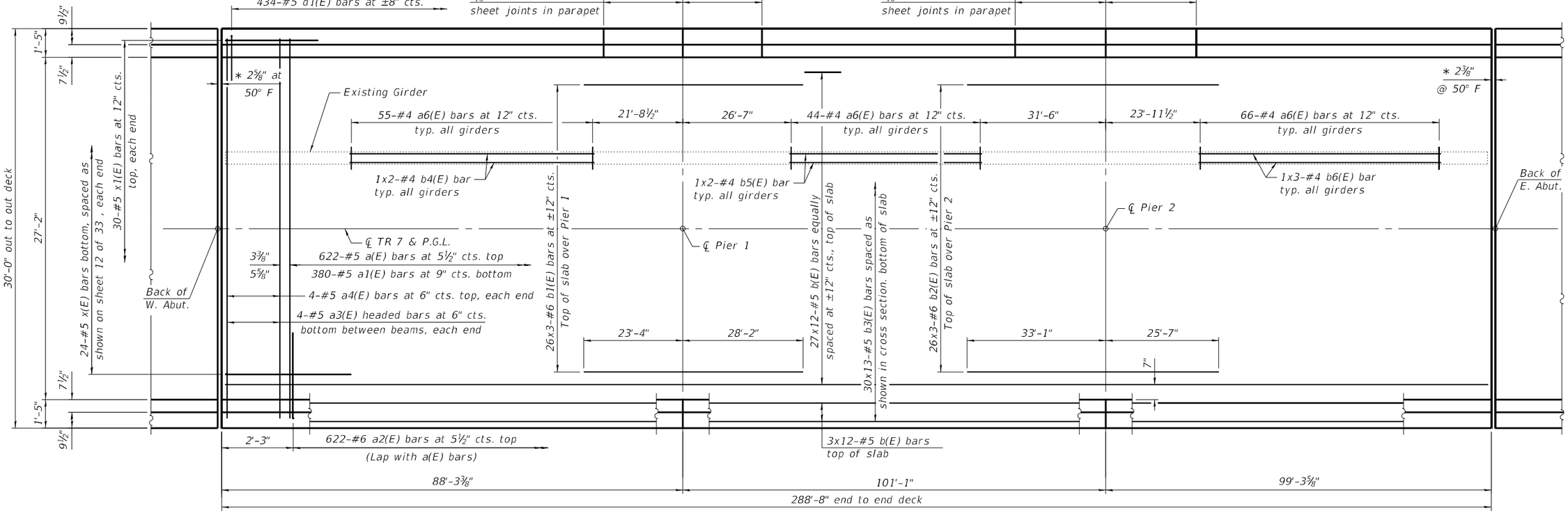
QUIGG ENGINEERING INC

USER NAME =	DESIGNED - CFS	REVISED -	
	CHECKED - RPW	REVISED -	
PLOT SCALE =	DRAWN - JDC	REVISED -	
PLOT DATE =	CHECKED - MDC	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TOP OF EAST APPROACH SLAB ELEVATIONS
STRUCTURE NO. 068-0035
SHEET 9 OF 33 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(68-5HB-1,2)BRR,BY,D	MONTGOMERY	122	30
		CONTRACT NO. 72A59		
	ILLINOIS	FED. AID PROJECT		

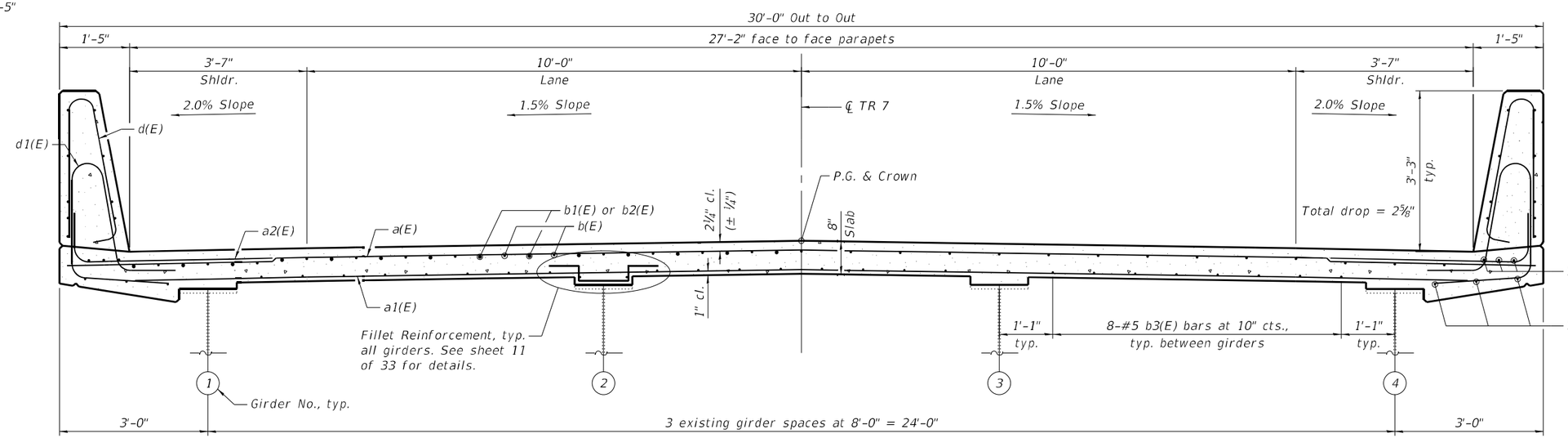


PLAN

* Dimension showing concrete opening. For joint opening see sheet 19 of 33.

MINIMUM BAR LAP

#4 bar = 2'-5"
#5 bar = 3'-6"
#6 bar = 4'-5"



NEAR PIER — CROSS SECTION (Looking East) — NEAR MIDSPAN

Notes:
See sheet 11 of 33 for superstructure details and Bill of Material.
Bars indicated thus 20 x 3-#5 etc. indicates 20 lines of bars with 3 lengths per line.
See sheet 1 of 33 for location of scuppers.

QUIGG ENGINEERING INC	USER NAME =	DESIGNED - CFS	REVISED -
		CHECKED - RPW	REVISED -
	PLOT SCALE =	DRAWN - JDC	REVISED -
	PLOT DATE =	CHECKED - MDC	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUPERSTRUCTURE
STRUCTURE NO. 068-0035
SHEET 10 OF 33 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(68-5HB-1,2)BRR,BY,D	MONTGOMERY	122	31
		CONTRACT NO. 72A59		
	ILLINOIS	FED. AID PROJECT		

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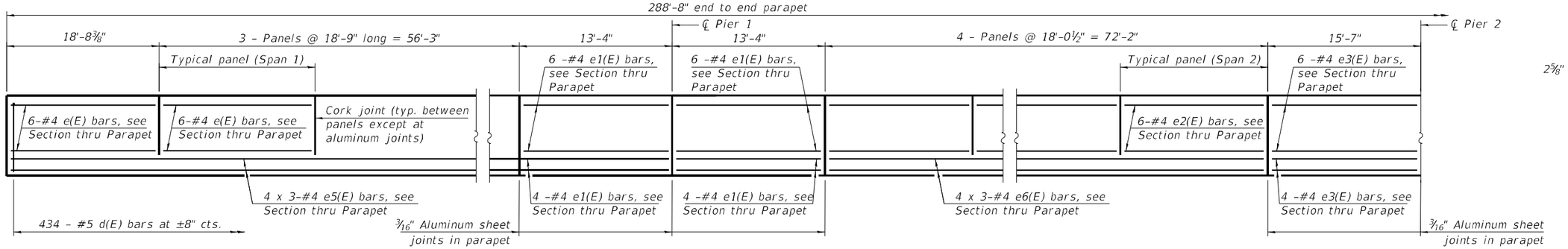
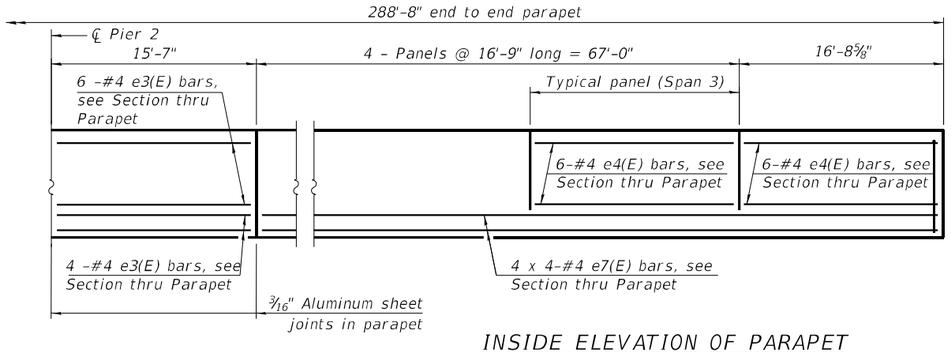
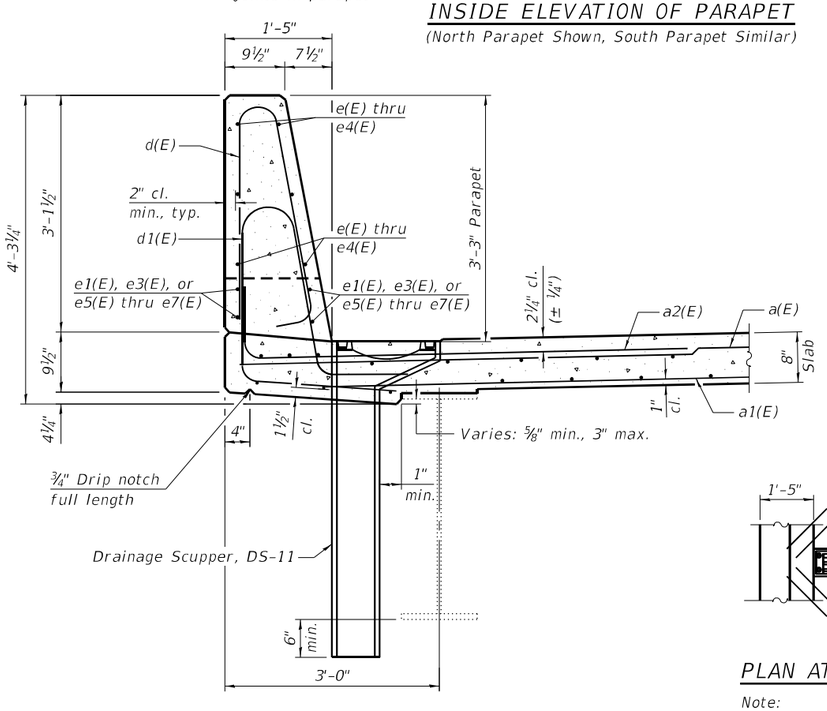


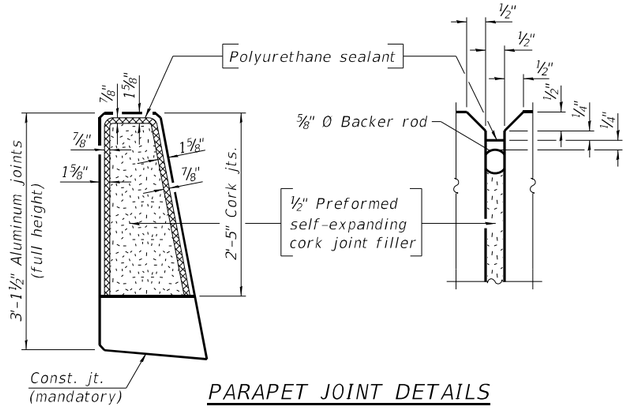


INSIDE ELEVATION OF PARAPET

(North Parapet Shown, South Parapet Similar)



SECTION THRU PARAPET AT DS-11 SCUPPER



PARAPET JOINT DETAILS

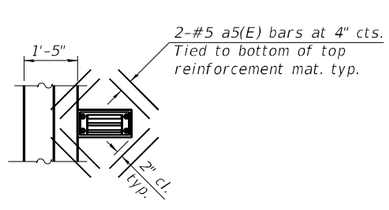
Notes:

The 3/16" Aluminum sheet shall be ASTM B 209 alloy 3003-H14 and coated with 5 mils of either bitumen paint or epoxy paint 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.

Bar Terminators, paid for seperately. See Total Bill of Material.

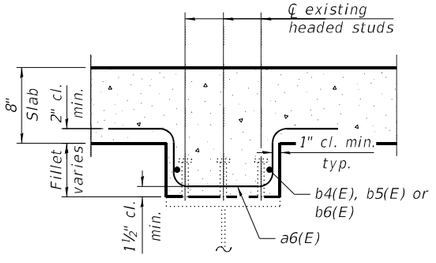
See sheet 10 of 33 for location of a6(E), b4(E), b5(E), and b6(E) bars.



PLAN AT SCUPPER

Note:

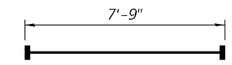
Cut longitudinal reinforcement to clear drainage scuppers.



DEEP FILLET REINFORCEMENT

MINIMUM BAR LAP

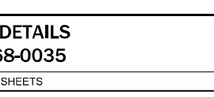
#4 bar = 2'-5"



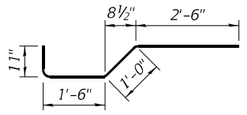
BAR a3(E)

(Headed, 48-#5 Bar Terminators)

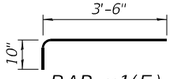
BAR a2(E)



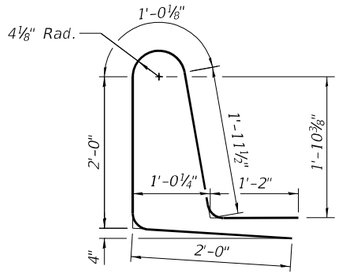
BAR a6(E)



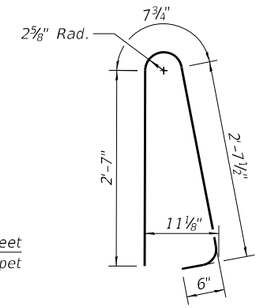
BAR x(E)



BAR x1(E)



BAR d1(E)



BAR d(E)

SUPERSTRUCTURE BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a(E)	622	#5	29'-8"	
a1(E)	380	#5	27'-8"	
a2(E)	1244	#6	8'-4"	
a3(E)	24	#5	7'-9"	
a4(E)	8	#5	29'-8"	
a5(E)	32	#5	1'-6"	
a6(E)	660	#4	3'-2"	
b(E)	396	#5	27'-5"	
b1(E)	78	#6	20'-2"	
b2(E)	78	#6	22'-7"	
b3(E)	390	#5	25'-7"	
b4(E)	16	#4	28'-3"	
b5(E)	16	#4	22'-9"	
b6(E)	24	#4	23'-4"	
d(E)	868	#5	6'-5"	
d1(E)	868	#5	8'-2"	
e(E)	48	#4	18'-4"	
e1(E)	40	#4	13'-0"	
e2(E)	48	#4	17'-8"	
e3(E)	40	#4	15'-3"	
e4(E)	60	#4	16'-5"	
e5(E)	24	#4	26'-8"	
e6(E)	24	#4	25'-9"	
e7(E)	32	#4	22'-10"	
x(E)	48	#5	5'-11"	
x1(E)	60	#5	4'-4"	
Reinforcement Bars, Epoxy Coated		Pound	93,000	
Concrete Superstructure		Cu. Yds.	311.0	

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

SDE-SB-2 1-1-2020

QUIGG ENGINEERING INC	USER NAME =	DESIGNED - CFS	REVISED -
		CHECKED - RPW	REVISED -
	PLOT SCALE =	DRAWN - JDC	REVISED -
	PLOT DATE =	CHECKED - MDC	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUPERSTRUCTURE DETAILS
STRUCTURE NO. 068-0035
SHEET 11 OF 33 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(68-5HB-1,2)BRR,BY,D	MONTGOMERY	122	32
		CONTRACT NO. 72A59		
	ILLINOIS	FED. AID PROJECT		

MODEL: Default
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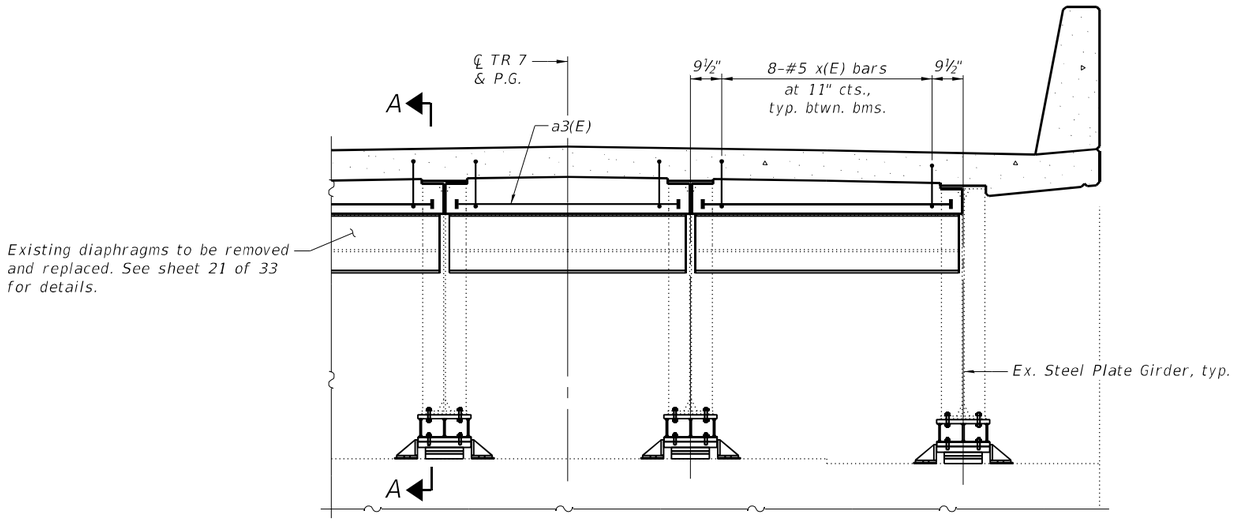
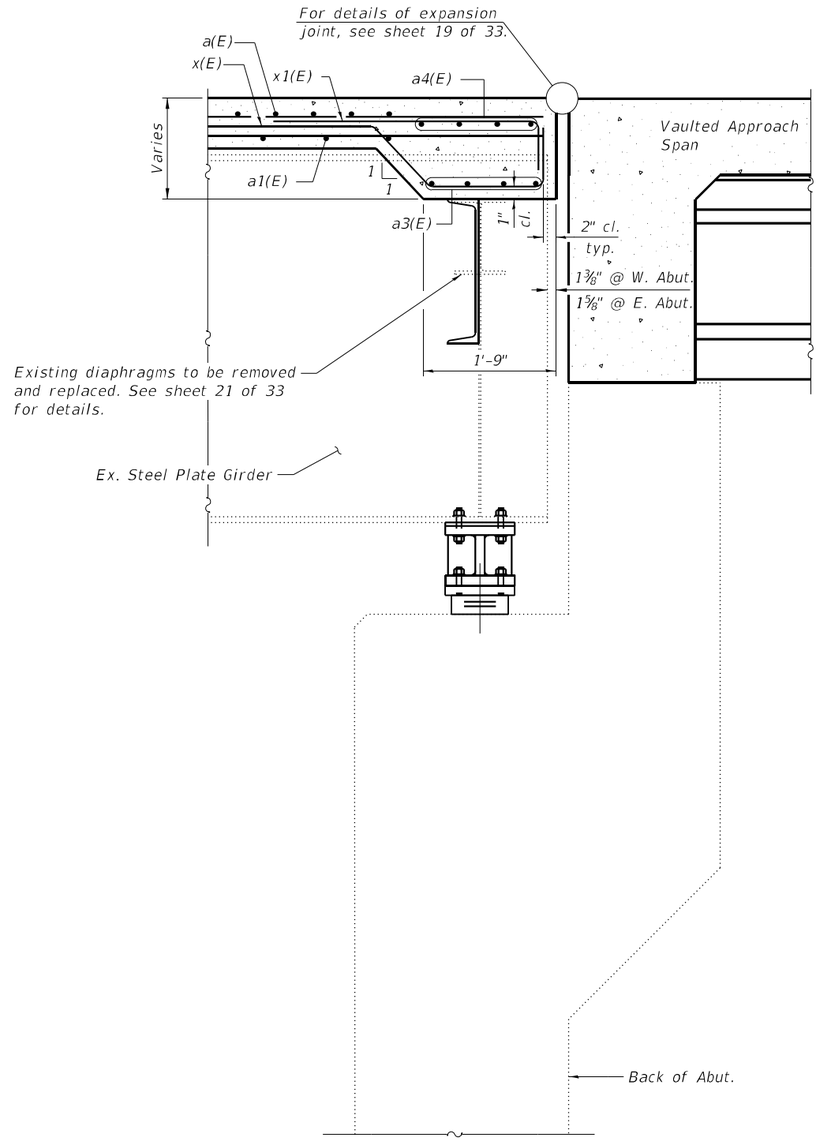


DIAPHRAGM AT ABUTMENT



SECTION A-A

(Full diaphragm not shown for clarity)

Notes:
See sheet 11 of 33 for superstructure details and Bill of Material.

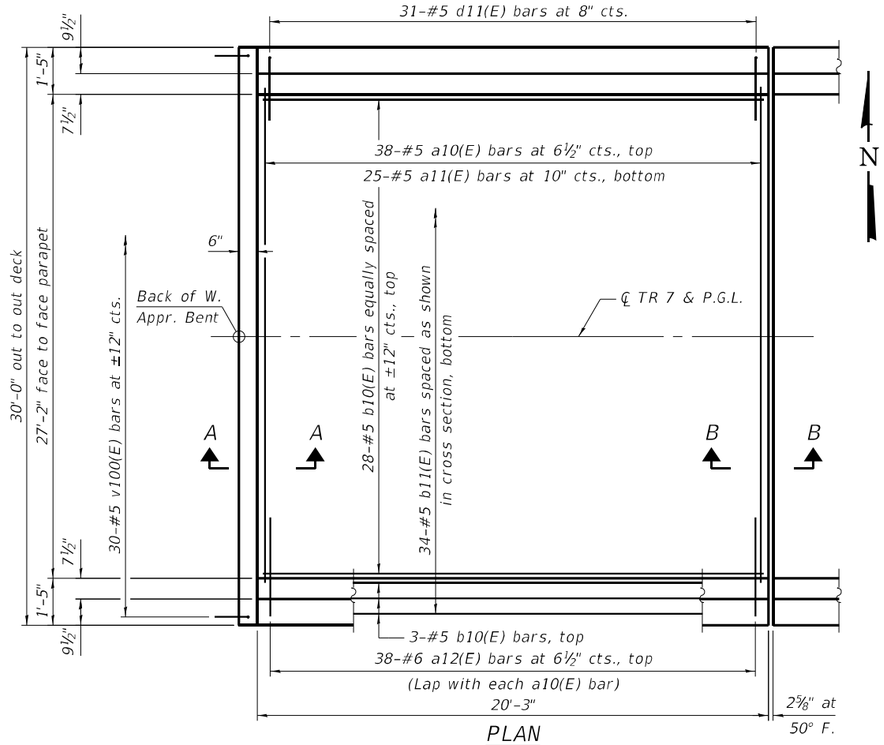
QUIGG ENGINEERING INC

USER NAME =	DESIGNED - CFS	REVISED -
	CHECKED - RPW	REVISED -
PLOT SCALE =	DRAWN - JDC	REVISED -
PLOT DATE =	CHECKED - MDC	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

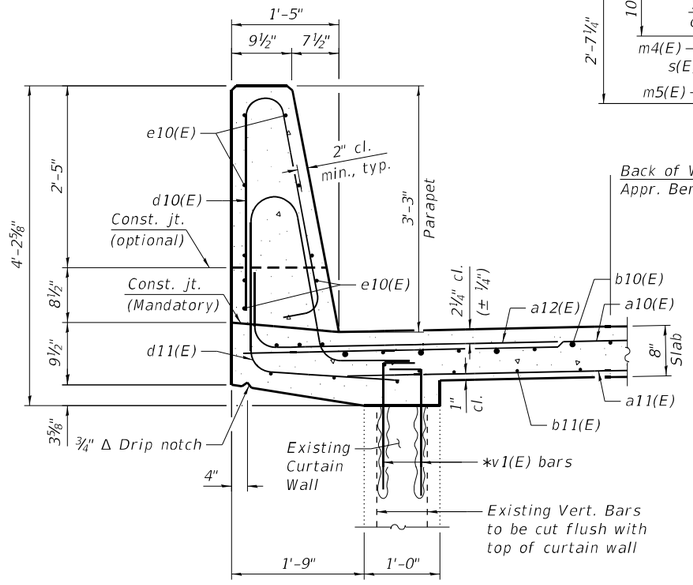
DIAPHRAGM DETAILS
STRUCTURE NO. 068-0035
SHEET 12 OF 33 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(68-5HB-1,2)BRR,BY,D	MONTGOMERY	122	33
		CONTRACT NO. 72A59		
	ILLINOIS	FED. AID PROJECT		

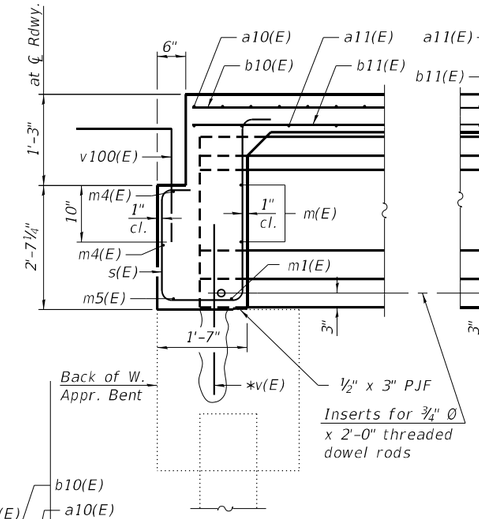


PLAN

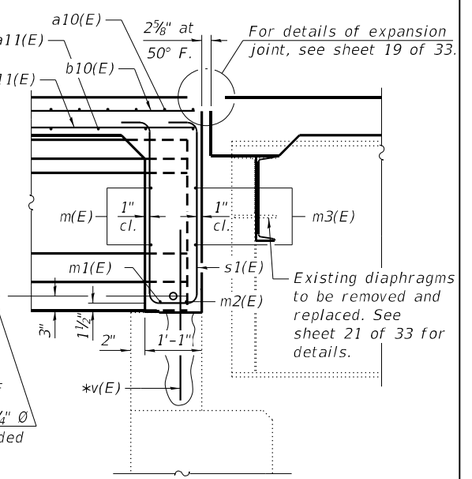
Notes:
See sheet 27 of 33 for v(E).
Existing reinforcement shall be cut flush with existing concrete surface. Cost included with Removal of Existing Concrete Deck.



SECTION THRU PARAPET

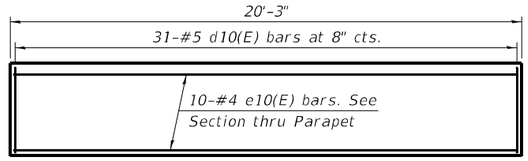


SECTION A-A

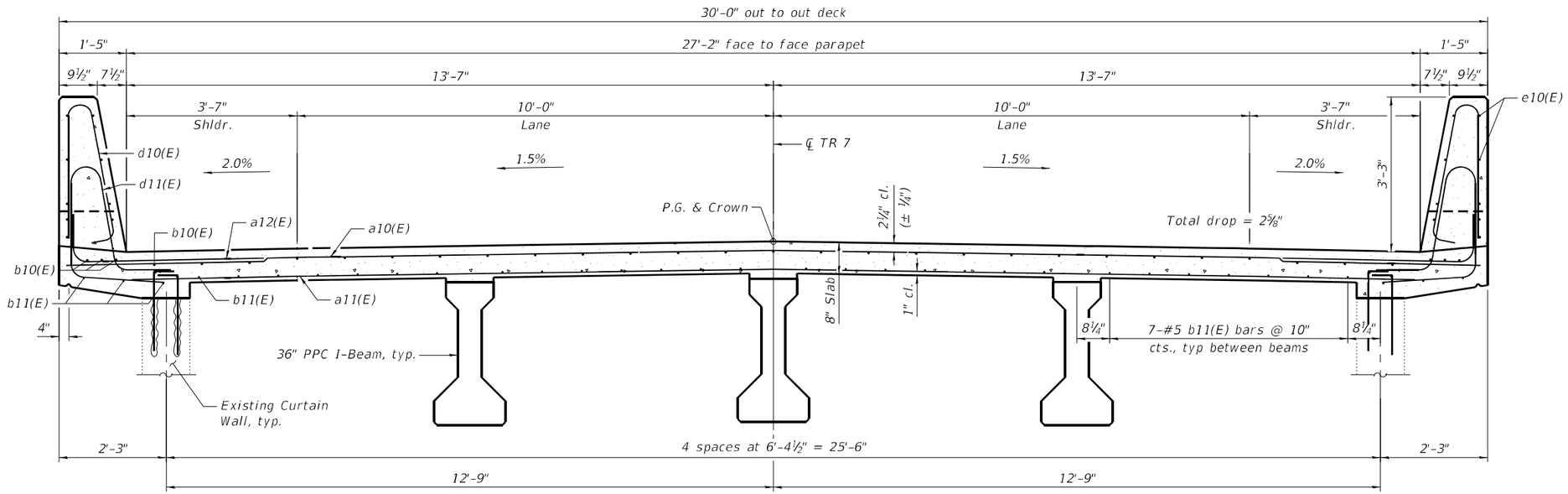


SECTION B-B

* Drill & epoxy grout bars. 9" min. embedment. Space to miss existing bars.



INSIDE ELEVATION OF PARAPET



CROSS SECTION
(Looking East)

MODEL: Default
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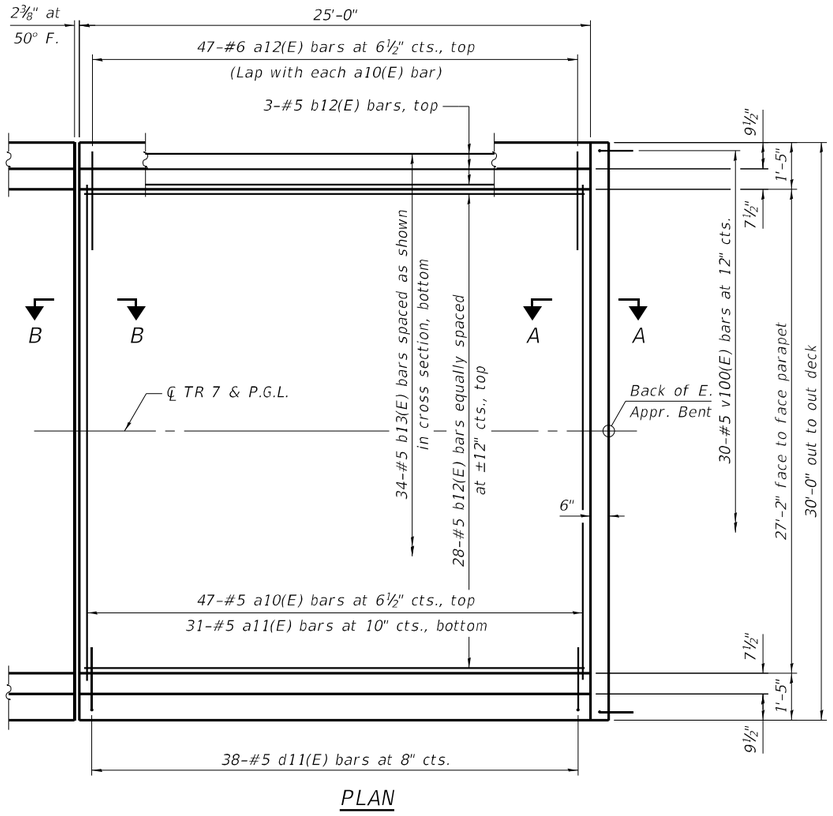
QUIGG ENGINEERING INC

USER NAME =	DESIGNED - CFS	REVISED -
	CHECKED - RPW	REVISED -
PLOT SCALE =	DRAWN - JDC	REVISED -
PLOT DATE =	CHECKED - MDC	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WEST VAULTED APPROACH SPAN
STRUCTURE NO. 068-0035
SHEET 13 OF 33 SHEETS

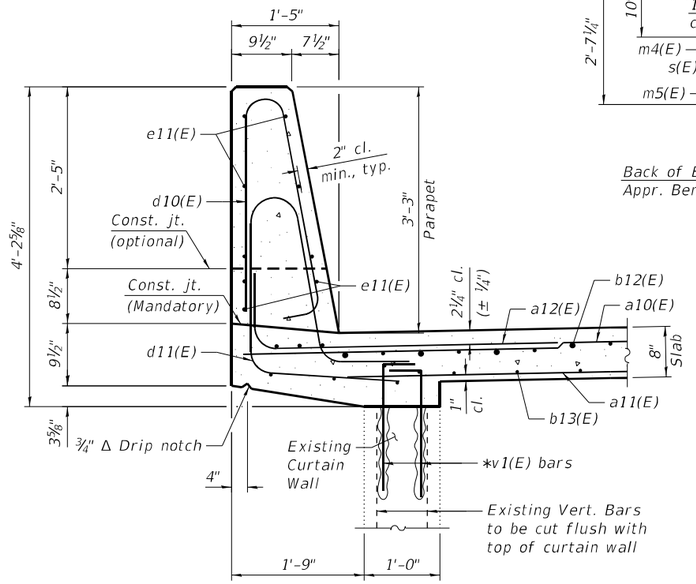
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(68-5HB-1,2)BRR,BY,D	MONTGOMERY	122	34
		CONTRACT NO. 72A59		
	ILLINOIS	FED. AID PROJECT		



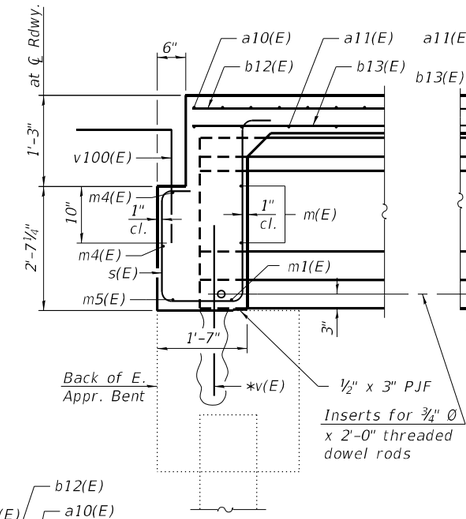
PLAN

N

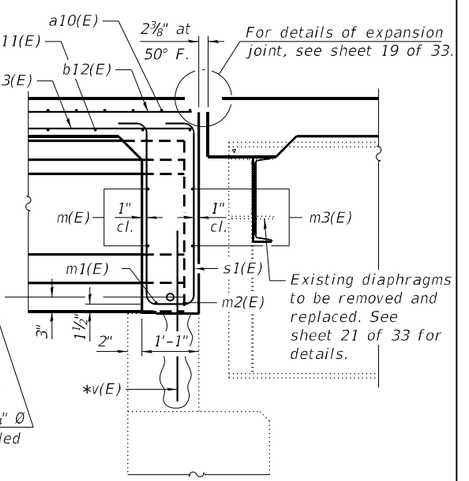
Notes:
See sheet 28 of 33 for v(E).
Existing reinforcement shall be cut flush with existing concrete surface. Cost included with Removal of Existing Concrete Deck.



SECTION THRU PARAPET

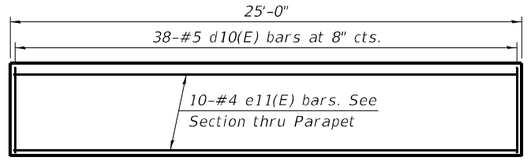


SECTION A-A

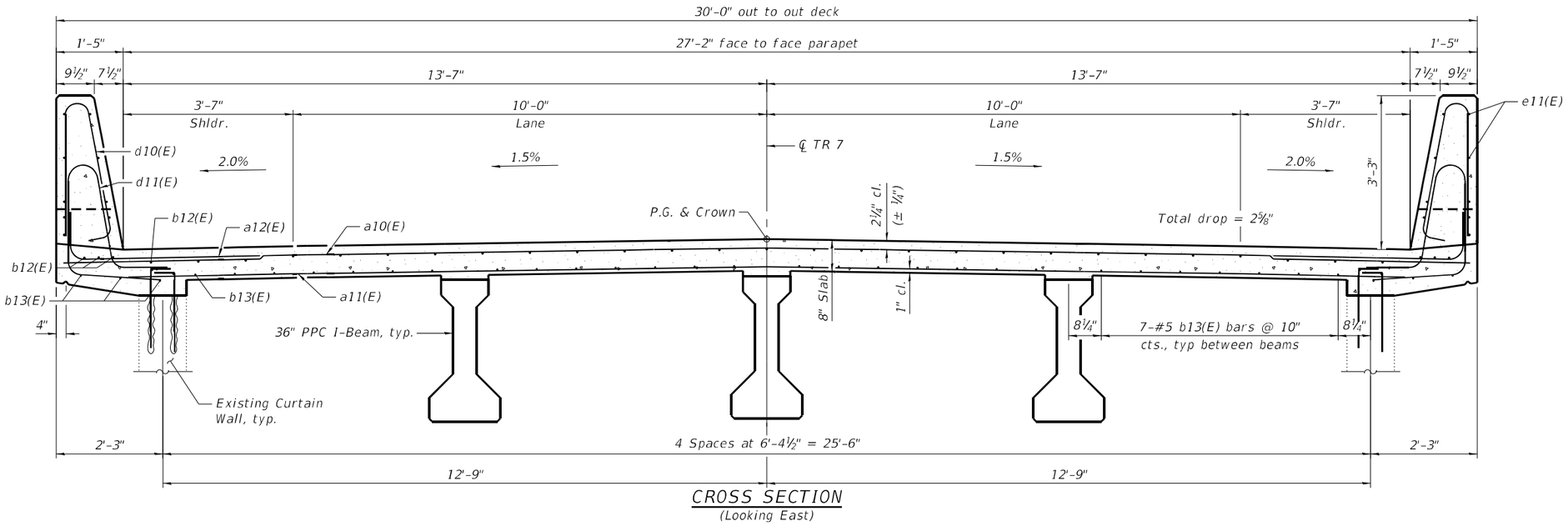


SECTION B-B

* Drill & epoxy grout bars. 9" min. embedment. Space to miss existing bars.



INSIDE ELEVATION OF PARAPET



CROSS SECTION
(Looking East)

QUIGG ENGINEERING INC	USER NAME =	DESIGNED - CFS	REVISED -
		CHECKED - RPW	REVISED -
	PLOT SCALE =	DRAWN - JDC	REVISED -
	PLOT DATE =	CHECKED - MDC	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EAST VAULTED APPROACH SPAN
STRUCTURE NO. 068-0035
SHEET 14 OF 33 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(68-5HB-1,2)BRR,BY,D	MONTGOMERY	122	35
		CONTRACT NO. 72A59		
	ILLINOIS	FED. AID PROJECT		

MODEL: Default
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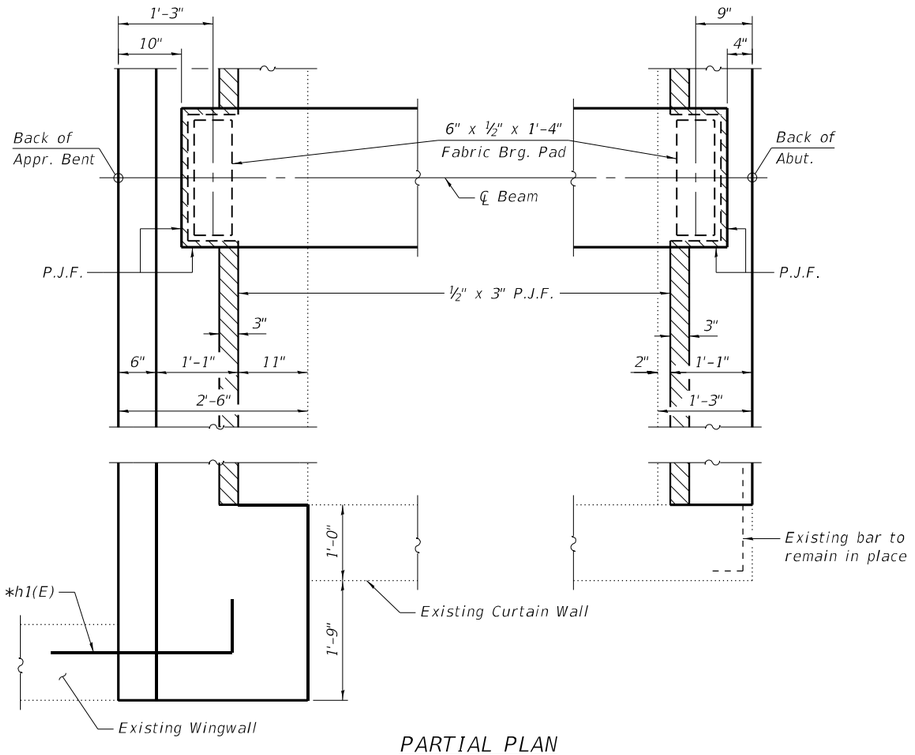
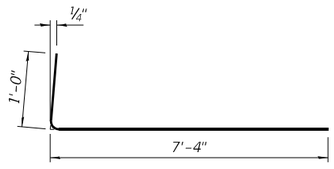
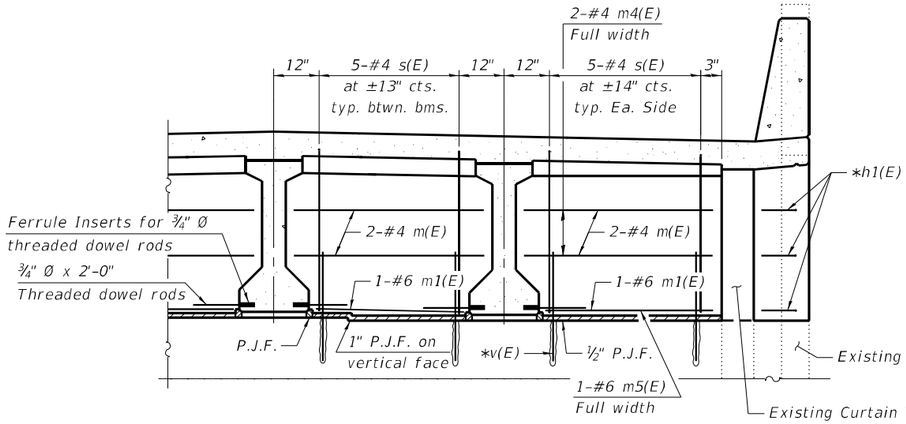


PARTIAL PLAN

(West Approach Span Shown, East Approach Span Similar)

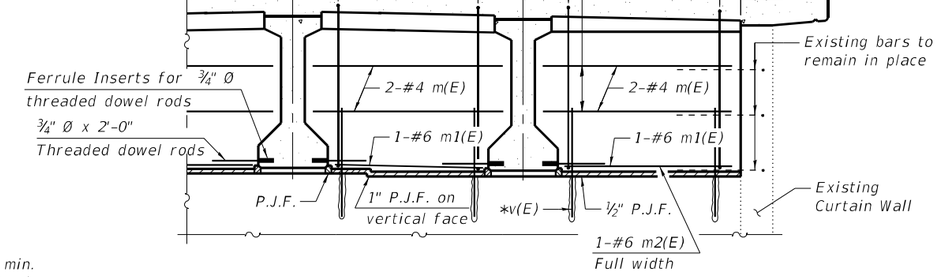


BAR a12(E)



DIAPHRAGM AT APPROACH BENT

For location of m(E), m1(E), m4(E), and m5(E) bars see Section A-A on sheets 13 and 14 of 33.



DIAPHRAGM AT ABUTMENT

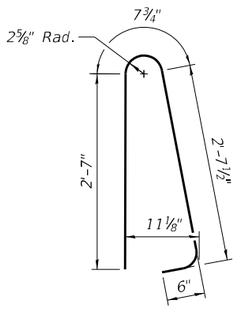
For location of m(E), m1(E), m2(E), and m3(E) bars see Section B-B on sheets 13 and 14 of 33.

* *Drill and epoxy grout bars. 9" min. embedment. Space to miss existing bars.*

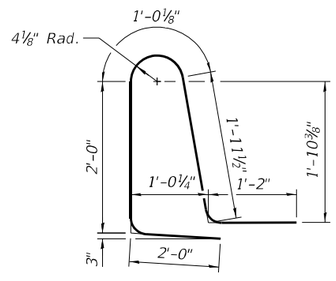
Note:
See sheets 27 and 28 of 33 for v(E) and h1(E) bars.

TWO VAULTED APPROACH SPANS BILL OF MATERIAL

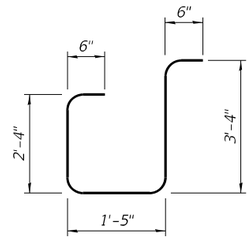
Bar	No.	Size	Length	Shape
a10(E)	85	#5	29'-8"	
a11(E)	56	#5	29'-0"	
a12(E)	170	#6	8'-4"	
b10(E)	34	#5	19'-11"	
b11(E)	34	#5	19'-11"	
b12(E)	34	#5	24'-8"	
b13(E)	34	#5	24'-8"	
d10(E)	138	#5	6'-5"	
d11(E)	138	#5	8'-2"	
e10(E)	20	#4	19'-11"	
e11(E)	20	#4	24'-8"	
m(E)	32	#4	5'-3"	
m1(E)	16	#6	4'-6"	
m2(E)	2	#6	24'-2"	
m3(E)	4	#4	24'-2"	
m4(E)	4	#4	27'-8"	
m5(E)	2	#6	27'-8"	
s(E)	40	#4	8'-1"	
s1(E)	40	#4	8'-7"	
v100(E)	60	#5	3'-7"	
Reinforcement Bars, Epoxy Coated		Pound	13,500	
Concrete Superstructure		Cu. Yd.	63.1	



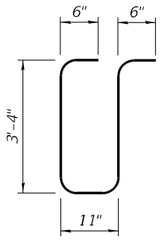
BAR d10(E)



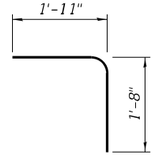
BAR d11(E)



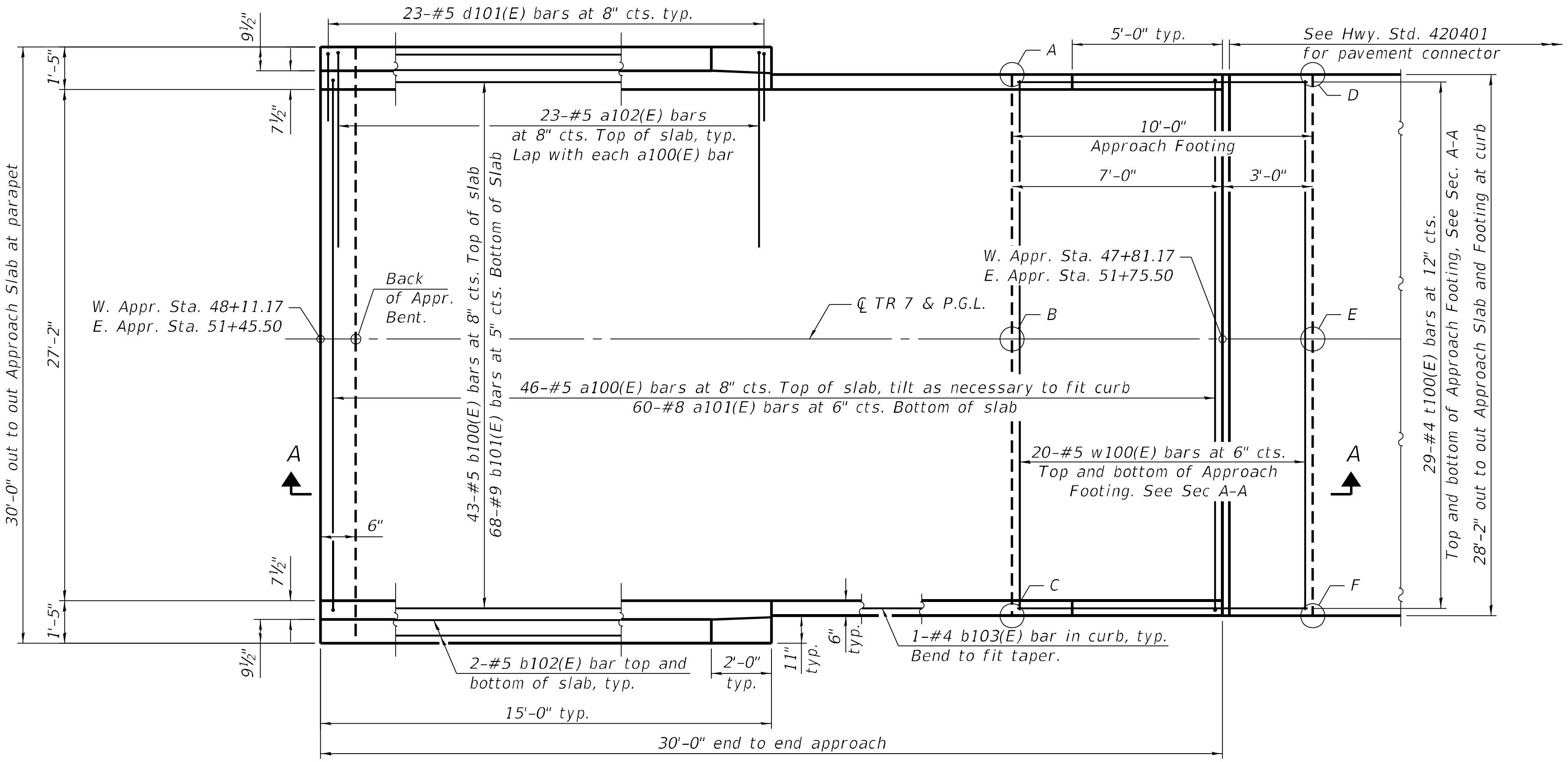
BAR s(E)



BAR s1(E)



BAR v100(E)

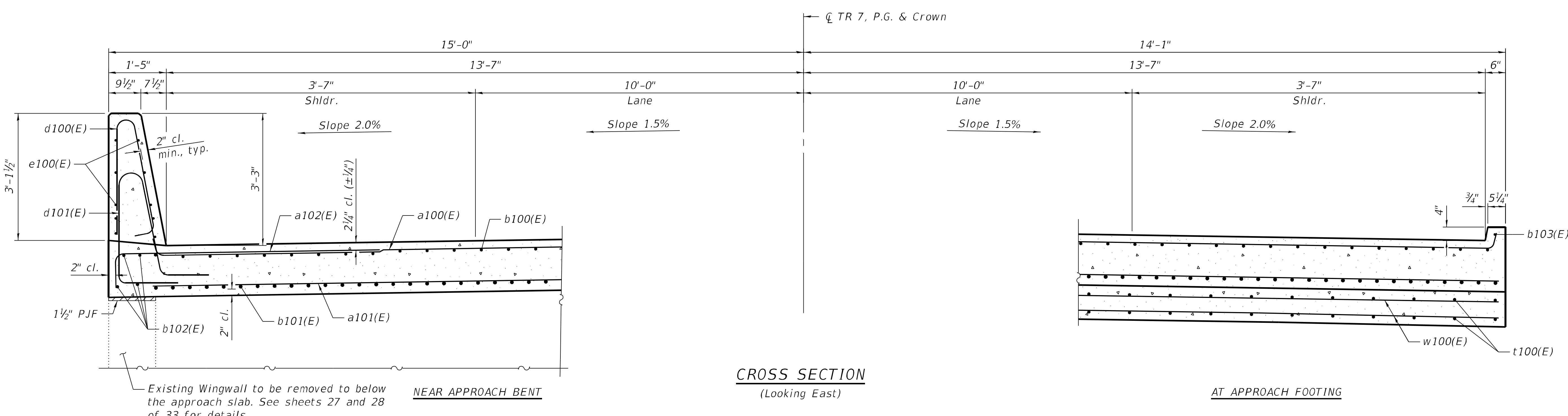


PLAN

(East approach slab shown; West approach slab similar by 180° rotation)

TOP AND BOTTOM ELEVATIONS FOR APPROACH FOOTING

West Approach			East Approach		
Point/ Location	Top	Bottom	Point/ Location	Top	Bottom
A	670.82	669.99	A	671.98	671.14
B	671.05	670.22	B	672.21	671.37
C	670.82	669.99	C	671.98	671.14
D	670.65	669.82	D	671.87	671.03
E	670.88	670.05	E	672.10	671.27
F	670.65	669.82	F	671.87	671.03



CROSS SECTION

(Looking East)

BAIA-CIP-39CS-0 2-1-2023

(Sheet 1 of 2)

QUIGG ENGINEERING INC	USER NAME =	DESIGNED - CFS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	BRIDGE APPROACH SLAB DETAILS STRUCTURE NO. 068-0035
		CHECKED - RPW	REVISED -		
	PLOT SCALE =	DRAWN - JDC	REVISED -		
	PLOT DATE =	CHECKED - MDC	REVISED -		SHEET 16 OF 33 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(68-5HB-1,2)BRR,BY,D	MONTGOMERY	122	37
		CONTRACT NO. 72A59		
		ILLINOIS FED. AID PROJECT		

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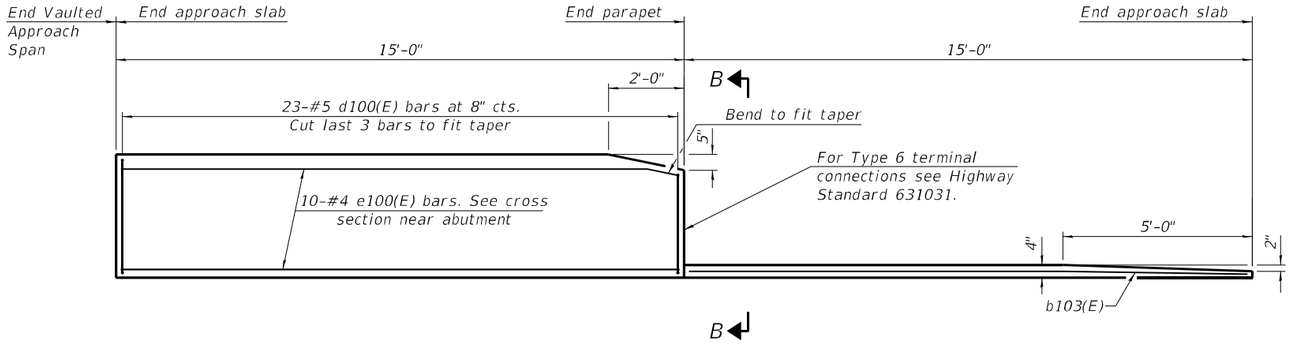
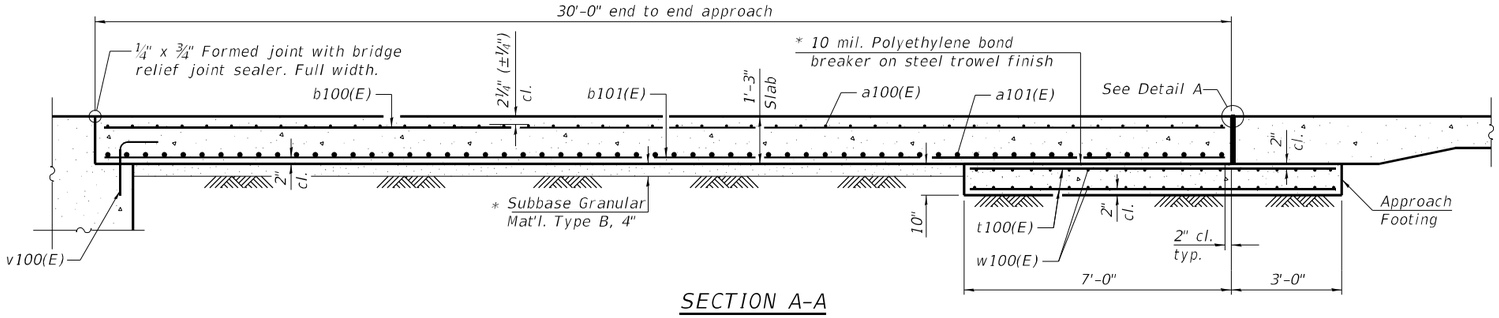
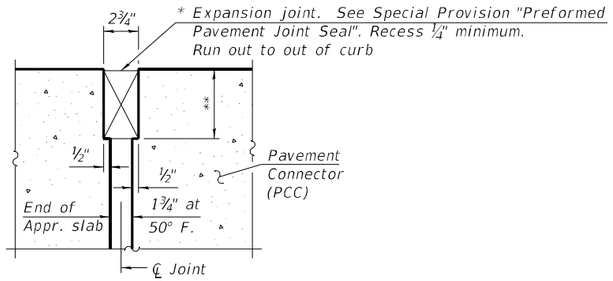


INSIDE ELEVATION OF PARAPET AND CURB

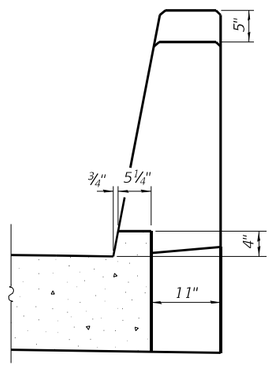


SECTION A-A



DETAIL A

(Detail A shown, applies to Highway Standard 420401 only. Detail A for pavement connector (HMA) may be found on Highway Standard 420406.)

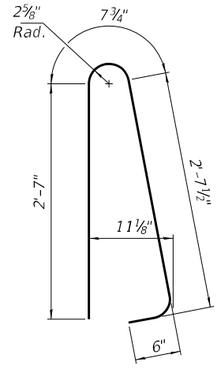


VIEW B-B

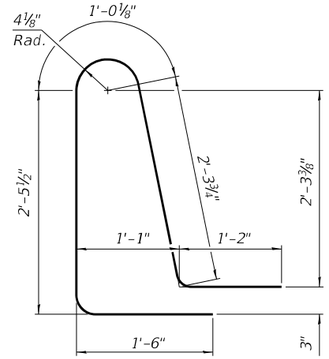
* Cost included with Concrete Superstructure (Approach Slab).

** Per manufacturer recommendations

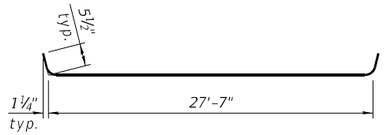
Notes:
- Parapet concrete shall be paid for as Concrete Superstructure.
- Approach slab shall be paid for as Concrete Superstructure (Approach Slab).
- Approach footing concrete shall be paid for as Concrete Structures.
- The approach footing maximum applied service bearing pressure (Qmax) = 2.0 ksf.
- Cost of excavation for approach footing included with Concrete Structures.



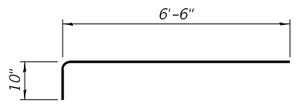
BAR d100(E)



BAR d101(E)



BAR a100(E)



BAR a102(E)

TWO APPROACHES BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a100(E)	92	#5	28'-6"	
a101(E)	120	#8	27'-10"	
a102(E)	92	#5	7'-4"	
b100(E)	86	#5	29'-8"	
b101(E)	136	#9	29'-8"	
b102(E)	16	#5	14'-8"	
b103(E)	4	#4	14'-8"	
d100(E)	92	#5	6'-5"	
d101(E)	92	#5	8'-6"	
e100(E)	40	#4	14'-8"	
t100(E)	116	#4	9'-8"	
w100(E)	80	#5	27'-10"	
Concrete Superstructure			Cu. Yd.	7.8
Concrete Superstructure (Approach Slab)			Cu. Yd.	81.4
Concrete Structures			Cu. Yd.	17.4
Reinforcement Bars, Epoxy Coated			Pound	33,930

BAIA-CIP-39CS-0 2-1-2023

MODEL: Default
FILE NAME: S:\202\2\11L057 - PTB 200-32 D6 - Fehr Graham - Various Ph I-IIIWO 3 I-55 Bridge Redeck 068-0035\CADD\CADD Sheets\068-0035-72A59-017-Bridge Approach Slab Details.dgn
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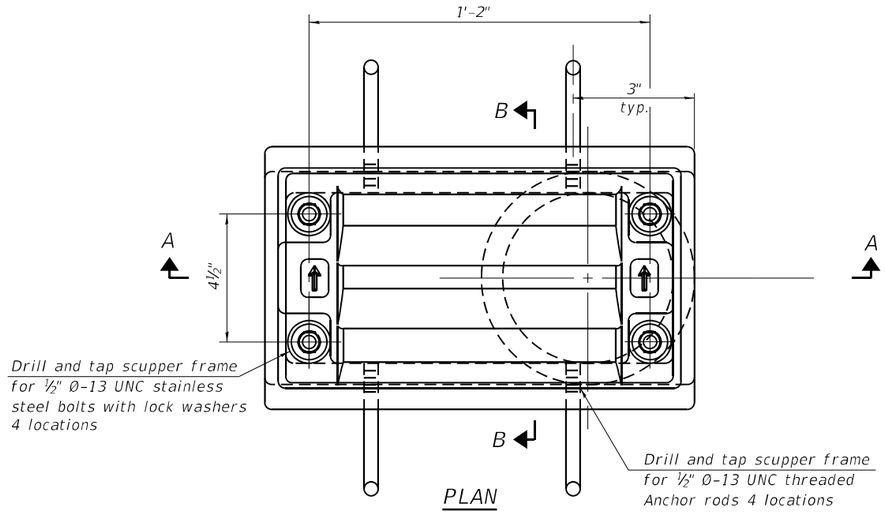
QUIGG ENGINEERING INC

USER NAME =	DESIGNED - CFS	REVISED -	
	CHECKED - RPW	REVISED -	
PLOT SCALE =	DRAWN - JDC	REVISED -	
PLOT DATE =	CHECKED - MDC	REVISED -	

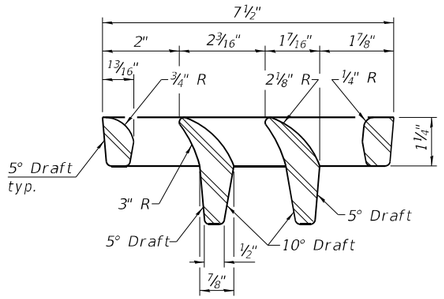
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BRIDGE APPROACH SLAB DETAILS
STRUCTURE NO. 068-0035
SHEET 17 OF 33 SHEETS

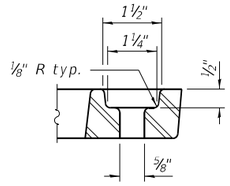
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(68-5HB-1,2)BRR,BY,D	MONTGOMERY	122	38
		CONTRACT NO. 72A59		
	ILLINOIS	FED. AID PROJECT		



PLAN



VANE GRATE DETAIL



GRATE BOLT HOLE DETAIL

Notes:

All cast iron parts shall be gray iron conforming to the requirements of AASHTO M105, Class 35B and AASHTO M306.

Bolts, anchor rods, nuts and washers shall be according to ASTM A307 and shall be galvanized according to AASHTO M232. As an alternate stainless steel may be used.

Stainless steel hardware shall be according to Article 1006.29(d) of the Standard Specifications.

Structural steel weldments of equal sections and of the same configuration may be substituted for the cast iron scupper frames and downspouts; however, the scupper grates shall remain cast iron. Fillet or full penetration welds shall be used for the weldments. Details shall be submitted to the Engineer for approval.

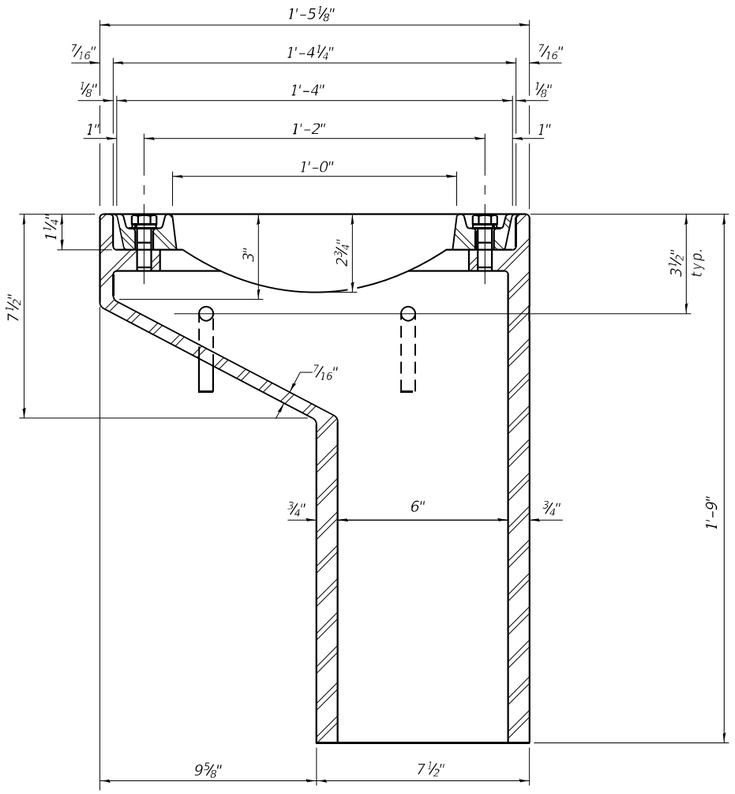
Structural steel scupper frames and downspouts, when utilized, shall be galvanized according to AASHTO M111.

As an alternate, fiberglass may be used for downspouts according to ASTM D2996 with a short-time rupture strength hoop tensile stress of 30,000 psi min. in lieu of the cast iron or structural steel.

Exterior surfaces of downspouts and exterior exposed surfaces of the scupper frame below deck shall be pigmented or painted to match the color of the exterior girder.

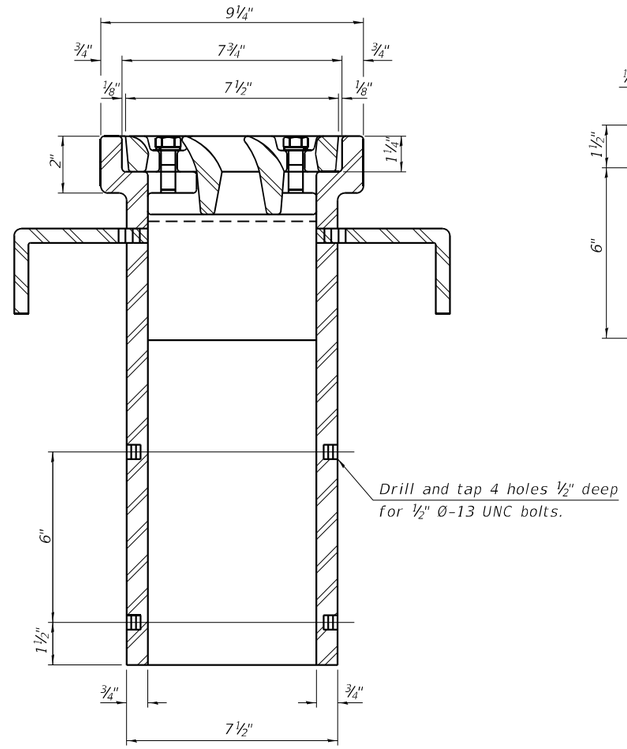
The Contractor shall take appropriate measures to assure that Protective Coat is not applied to the scupper.

Cost of the grate, frame, downspout, anchor rods, nuts and washers including complete installation of the scupper shall be paid for at the contract unit price for Drainage Scuppers, DS-11.

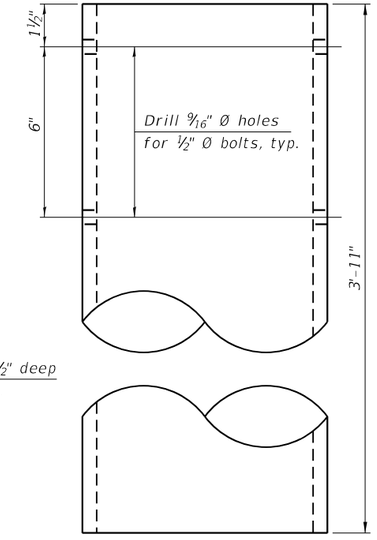


SECTION A-A

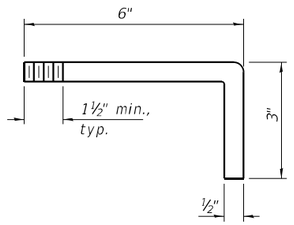
See sheet 11 of 33 for scupper location relative to parapet.



SECTION B-B



DOWNSPOUT



ANCHOR ROD DETAIL

BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Drainage Scuppers, DS-11	Each	4

DS-11

2-1-2023

QUIGG ENGINEERING INC

USER NAME =	DESIGNED - CFS	REVISED -
	CHECKED - RPW	REVISED -
PLOT SCALE =	DRAWN - JDC	REVISED -
PLOT DATE =	CHECKED - MDC	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DRAINAGE SCUPPER, DS-11
STRUCTURE NO. 068-0035

SHEET 18 OF 33 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(68-5HB-1,2)BRR,BY,D	MONTGOMERY	122	39
		CONTRACT NO. 72A59		
		ILLINOIS	FED. AID PROJECT	

MODEL: Default
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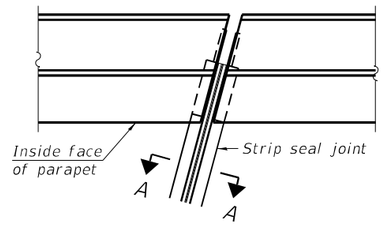
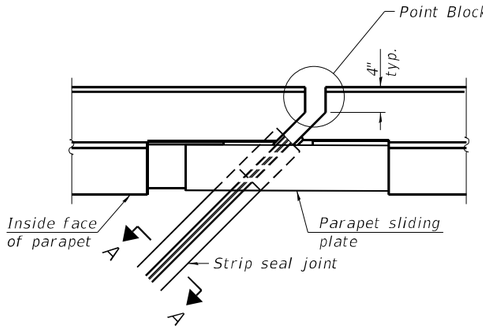
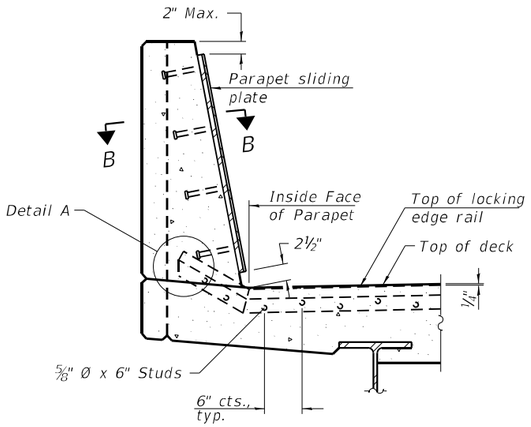


FOR SKEWS ≤ 30°



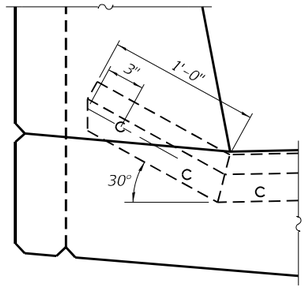
FOR SKEWS > 30°

PLAN AT PARAPET

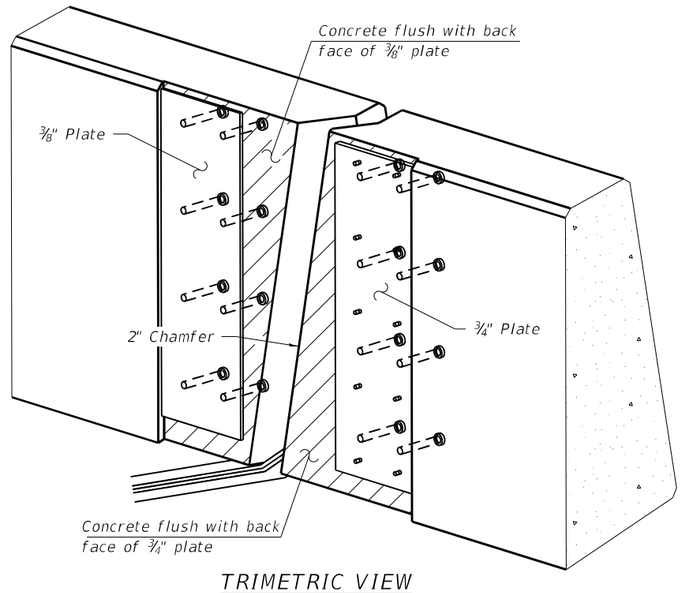


SECTION AT PARAPET

(Skews > 30° shown. Skews ≤ 30° similar except as shown in plan view.)

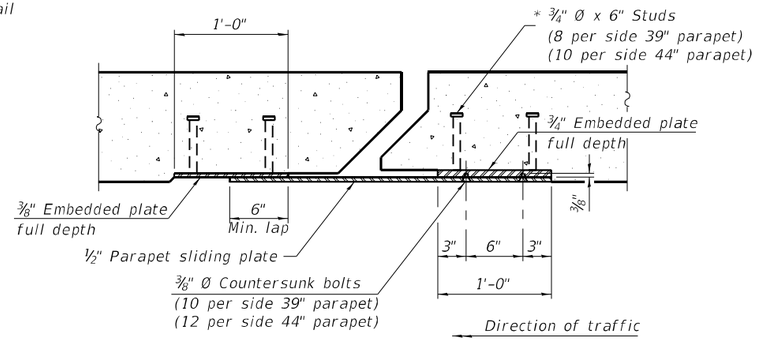


DETAIL A

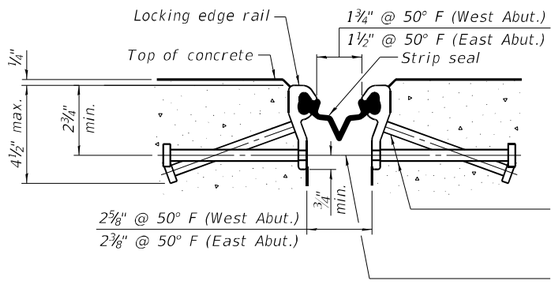


TRIMETRIC VIEW

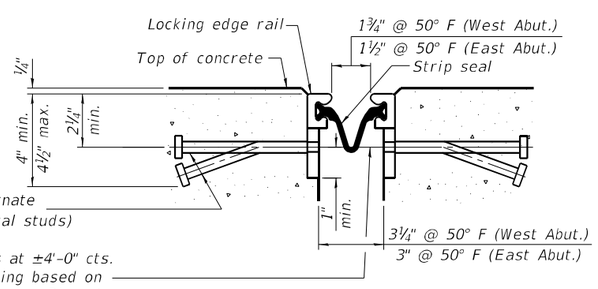
(Showing embedded plates only)



SECTION B-B



SHOWING ROLLED RAIL JOINT



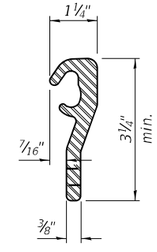
SHOWING WELDED RAIL JOINT

* ⅝" Ø x 6" studs @ 6" cts. (alternate angled/bent studs with horizontal studs)

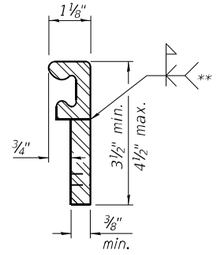
⅜" ϕ threaded rods in 7/16" ϕ holes at ±4'-0" cts. for holding the proper joint opening based on the temperature during the deck pour. Place to miss studs. All rods shall be burned, or sawed off flush with the plates after concrete is set.

SECTION A-A

* Granular or solid flux filled headed studs conforming to Article 1006.32 of the Std. Specs., automatically end welded.



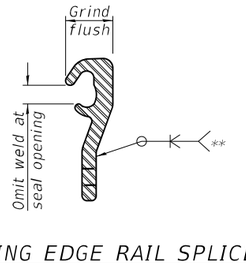
ROLLED (EXTRUDED) RAIL



WELDED RAIL

LOCKING EDGE RAILS

** Back gouge not required if complete joint penetration is verified by mock-up.



LOCKING EDGE RAIL SPLICE

The inside of the locking edge rail groove shall be free of weld residue. Rolled rail shown, welded rail similar.

Notes:

The strip seal shall be made continuous and shall have a minimum thickness of ¼". The configuration of the strip seal shall match the configuration of the locking edge rails. Open or "webbed" strip seal gland configurations are not permitted. The gland shall be sized for a maximum rated movement of 4 inches.

The locking edge rails depicted are configured for typical applications and are conceptual only. The actual configuration of the locking edge rails and matching strip seal may vary from manufacturer to manufacturer provided they fit the application and meet the minimum anchorage shown. Flanged edge rails, however, will not be allowed. Locking edge rails may exceed the 4½" maximum depth provided the anchorage system is revised according to the manufacturer's recommendation.

The manufacturer's recommended installation methods shall be followed.

All steel components shall be galvanized after fabrication according to Article 520.03 of the Standard Specifications.

The Maximum space between locking edge rail segments shall be 3/16" and sealed with a suitable sealant; however, any rail joint within 10' measured perpendicular to the face of the curb or parapet shall be welded as shown in the locking edge rail splice detail.

Cost of parapet sliding plates, embedded plates, and anchorage studs included with Preformed Joint Strip Seal.

39" constant slope barrier shown, 44" constant slope barrier similar as noted.

The concrete opening below the strip seal will vary based on the locking edge rail chosen by the Contractor. Deck and parapet lengths shown elsewhere in the plans are dimensioned to the concrete opening, not the joint opening, and are based on the rolled locking edge rail. If the Contractor elects to use a different locking edge rail, dimensional adjustments may be required. One exception to this would be the strip seal joint at the end of the precast bridge approach slab. For these cases the pavement connector length shall be adjusted, not the length of the bridge approach slab.

BILL OF MATERIAL

Item	Unit	Total
Preformed Joint Strip Seal	Foot	58.5

EJ-SS 1-1-2020

MODEL: Default
FILE NAME: S:\2021\21IL057 - PTB 200-32 D6 - Fehr Graham - Various Ph I-III\WO 3 I-55 Bridge Redeck 068-0035\CADD\CADD Sheets\068003S-72A59-019-Preformed Joint Strip Seal.dgn
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QUIGG ENGINEERING INC

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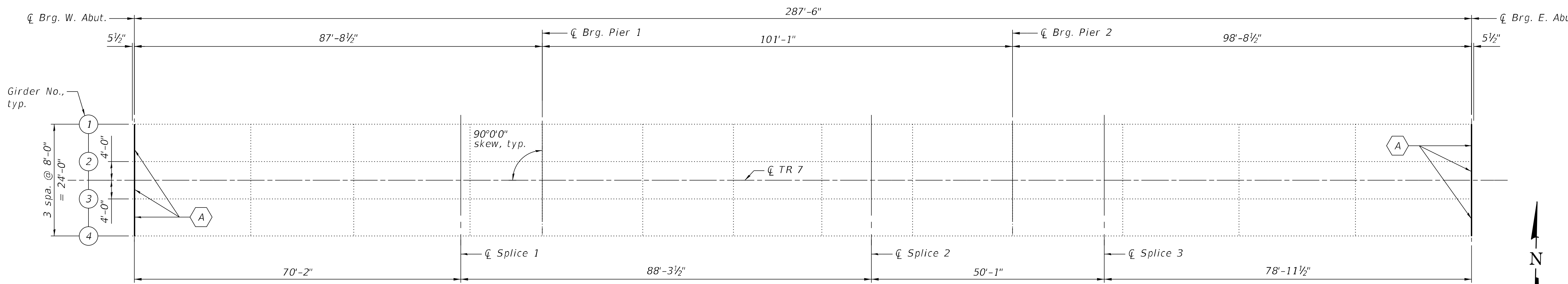
	CHECKED - RPW	REVISED -	
PLOT SCALE =	DRAWN - JDC	REVISED -	
PLOT DATE =	CHECKED - MDC	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PREFORMED JOINT STRIP SEAL
STRUCTURE NO. 068-0035
SHEET 19 OF 33 SHEETS

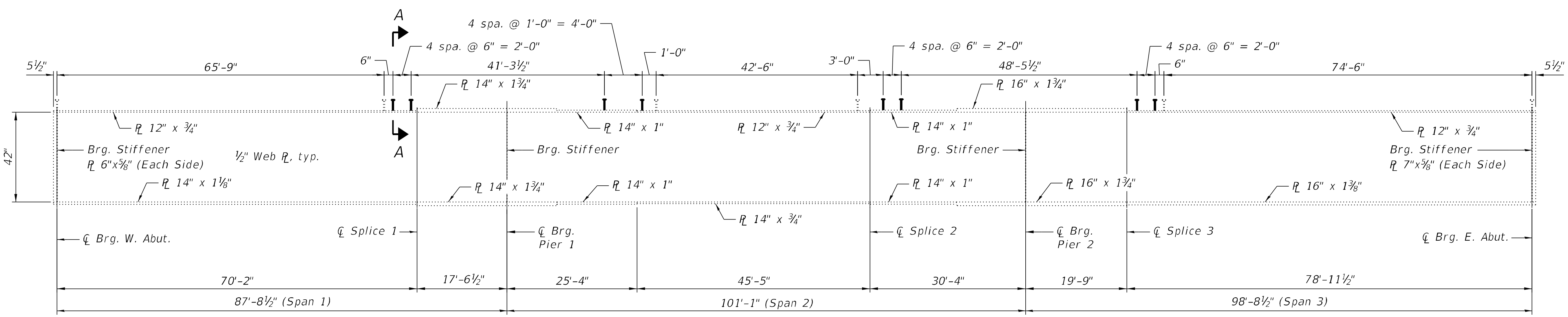
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(68-5HB-1,2)BRR,BY,D	MONTGOMERY	122	40
		CONTRACT NO. 72A59		
	ILLINOIS	FED. AID PROJECT		



EXISTING PLATE GIRDER FRAMING PLAN

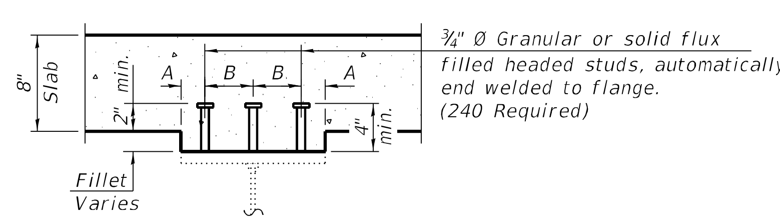
(A) - Diaphragm Replacement "A"

N



EXISTING GIRDER ELEVATION

Flange Width	A	B
12"	2"	4"
14"	3"	4"



SECTION A-A

Note:
See sheet 21 of 33 for notes, details, and Bill of Material for Diaphragm Replacement "A".
See sheets 10 and 11 of 33 for fillet reinforcement.

MODEL: Default
FILE NAME: S:\2021\21IL057 - PTB 200-32 D6 - Fehr Graham - Various Ph I-II\WO 3 I-55 Bridge Redeck 068-0035\CADD\CADD Sheets\0680035-72A59-020-Plate Girder Framing Plan.dgn

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PLOT SCALE =	DRAWN - JDC	REVISED -
PLOT DATE =	CHECKED - MDC	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PLATE GIRDER FRAMING PLAN
STRUCTURE NO. 068-0035

SHEET 20 OF 33 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(68-5HB-1,2)BRR,BY,D	MONTGOMERY	122	41
		CONTRACT NO. 72A59		
	ILLINOIS	FED. AID PROJECT		

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INTERIOR GIRDER MOMENT TABLE						
		0.4 Sp. 1	Pier 1	0.5 Sp. 2	Pier 2	0.6 Sp. 3
Is, Ss	(in^4)	14,050	26,547	11,972	29,898	15,991
Ic(n)	(in^4)	43,325	–	34,881	–	52,627
Ic(3n)	(in^4)	31,701	–	26,199	–	37,378
Ss	(in^3)	743	1,167	571	1,314	946
Sc(n)	(in^3)	1,097	–	858	–	1,382
Sc(3n)	(in^3)	1,009	–	787	–	1,274
Z	(in^3)	–	1,292	–	1,446	–
$\wp$	(k/')	1.004	1.553	0.987	1.580	1.026
$M\wp$	('k)	565	-1,286	220	-1,669	726
$s\wp$	(k/')	0.463	–	0.463	–	0.463
$M_s\wp$	('k)	278	–	175	–	358
LLDF		1.455	1.455	1.455	1.455	1.455
M_L	('k)	836	-576	693	-663	954
MI	('k)	197	-131	153	-147	213
5/3 [M_{LL+I}]	('k)	1722	-1178	1410	-1350	1945
Ma	('k)	3335	-3203	2348	-3925	3938
*Mu	('k)	4385	3877	3622	4337	5282
fs DL (non-comp)	(ksi)	9.1	-13.2	4.6	-15.2	9.2
fs DL (comp)	(ksi)	3.3	–	2.7	–	3.4
fs 5/3 [M_L + MI]	(ksi)	18.8	-12.1	19.7	-12.3	16.9
fs (Overload)	(ksi)	31.2	-25.3	27.0	-27.5	29.5
**f_s (Total)	(ksi)	–	–	–	–	–
VR	(k)	52.5	–	54.5	–	55.7

INTERIOR GIRDER REACTION TABLE					
		W. Abut.	Pier 1	Pier 2	E. Abut.
LLDF		1.698	1.455	1.455	1.698
R_{DL}	(k)	50.8	150.9	171.8	57.9
R_{LL}	(k)	50.0	68.9	72.3	50.6
R_I	(k)	11.7	11.0	11.2	11.3
R_{Total} (Service I)	(k)	112.5	230.8	255.3	119.8

* Compact section
** Braced non-compact and partially braced section

Is, Ss: Non-composite moment of inertia and section modulus of the steel section used for computing fs(Total and Overload) due to non-composite dead loads ($in.^4$ and $in.^3$).

Ic(n), Sc(n): Composite moment of inertia and section modulus of the steel and deck based upon the modular ratio, "n", used for computing fs(Total and Overload) due to short-term composite live loads ($in.^4$ and $in.^3$).

Ic(3n), Sc(3n): Composite moment of inertia and section modulus of the steel and deck based upon 3 times the modular ratio, "3n", used for computing fs(Total and Overload) due to long-term composite (superimposed) dead loads ($in.^4$ and $in.^3$).

Z: Plastic Section Modulus of the steel section in non-composite areas ($in.^3$).

$\wp$: Un-factored non-composite dead load (kips/ft.).

$M\wp$: Un-factored moment due to non-composite dead load (kip-ft.).

$s\wp$: Un-factored long-term composite (superimposed) dead load (kips/ft.)

$M_s\wp$: Un-factored moment due to long-term composite (superimposed) dead load (kip-ft.).

LLDF: Live Load Distribution Factor for moment and shear computed according to AASHTO LFD 3.23.1.

M_L: Un-factored live load moment (kip-ft.).

MI: Un-factored moment due to impact (kip-ft.).

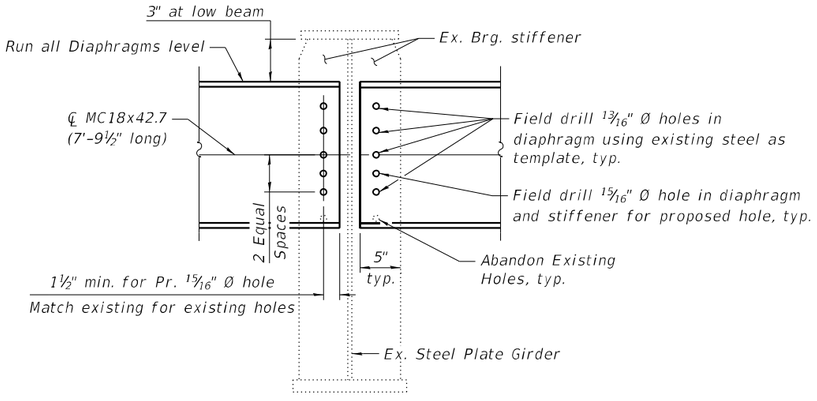
Ma: Factored design moment (kip-ft.).
$1.3\ [M\wp + Ms\wp + \frac{5}{3}(M_L + MI)]$

Mu: Compact composite moment capacity according to AASHTO LFD 10.50.1.1 or compact non-composite moment capacity according to AASHTO LFD 10.48.1 (kip-ft.).

fs (Overload): Sum of stresses as computed from the moments below (ksi).
$M\wp + Ms\wp + \frac{5}{3}(M_L + MI)$

fs (Total): Sum of stresses as computed from the moments below on non-compact section (ksi).
$1.3\ [M\wp + Ms\wp + \frac{5}{3}(M_L + MI)]$

VR: Maximum M_L + impact shear range within the composite portion of the span for stud shear connector design (kips).



ABUTMENT DIAPHRAGM REPLACEMENT "A"

(6 Diaphragms Required)

Notes:

Field drill 15/16" Ø holes for ¾" Ø bolts into existing stiffener and proposed diaphragm for diaphragm replacement.

All steel channels shall be AASHTO M270 Grade 36.

Fasteners shall be ASTM A325 Type 1, mechanically galvanized bolts. Bolts ¾" Ø, holes 13/16" Ø, unless otherwise noted.

All materials for the diaphragm replacement including channels, bolts, nuts, and washers shall be galvanized per the special provision "Hot Dip Galvanizing for Structural Steel". Cost included in Furnishing and Erecting Structural Steel.

See sheet 20 of 33 for locations of Diaphragm Replacement "A".

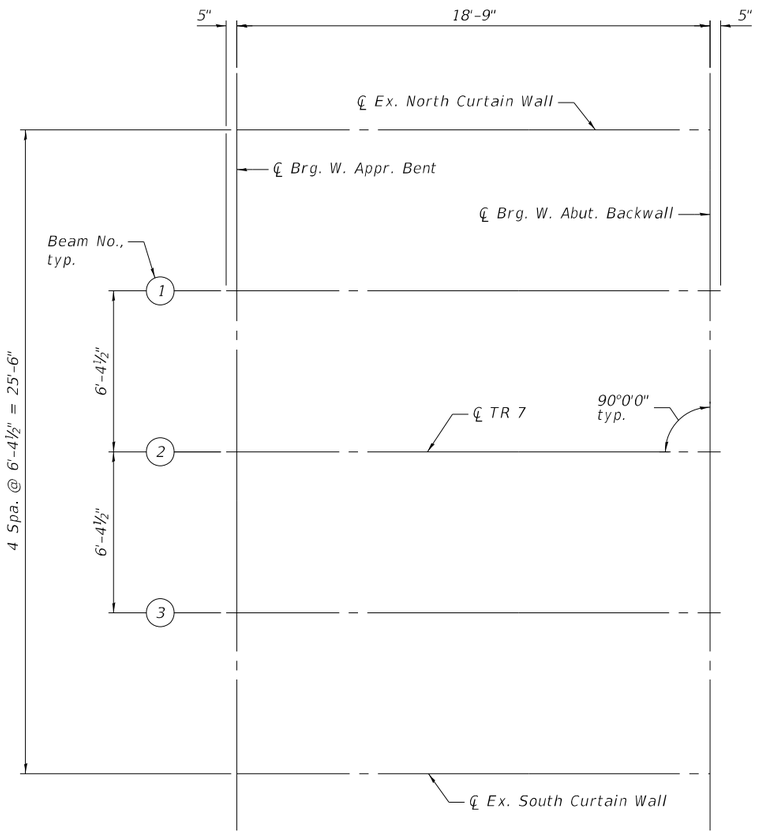
Existing structural steel that will be in contact with new structural steel shall be cleaned and painted prior to erection as required by the special provision "Cleaning and Painting Contact Surface Areas of Existing Steel Structures". Cost included in Furnishing and Erecting Structural Steel.

Two hardened washers required for each set of oversized holes.

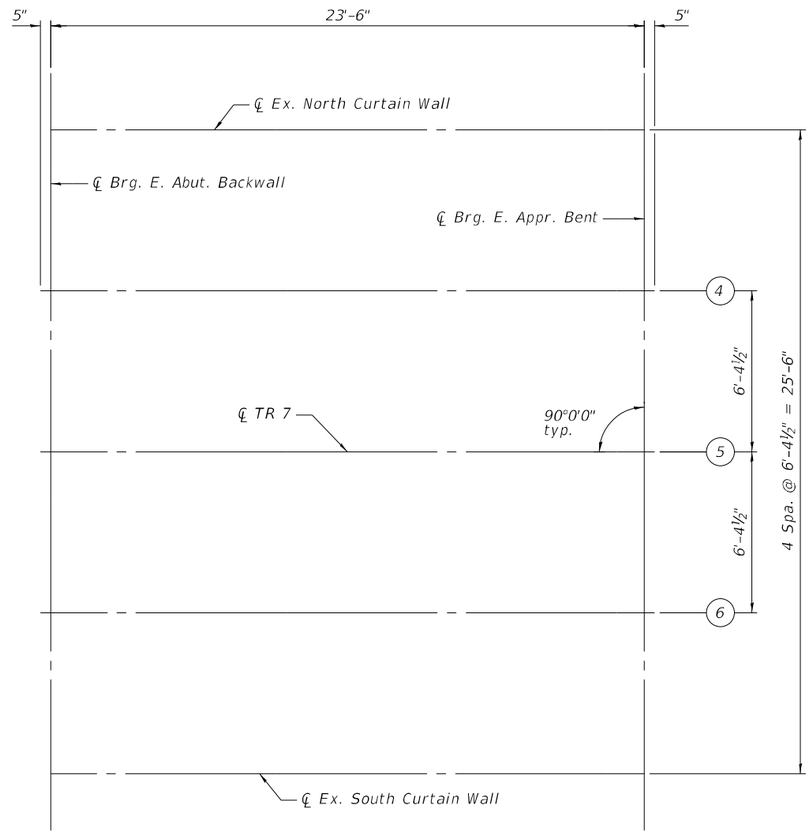
Alternate channels of equal depth and larger weight are permitted to facilitate material acquisition. Alternate channels if utilized, shall be provided at no additional cost to the Department.

BILL OF MATERIAL

Item	Unit	Total
Furnishing and Erecting Structural Steel	Pound	2,040
Structural Steel Removal	Pound	2,020



WEST APPROACH SPAN FRAMING PLAN



EAST APPROACH SPAN FRAMING PLAN

QUIGG ENGINEERING INC

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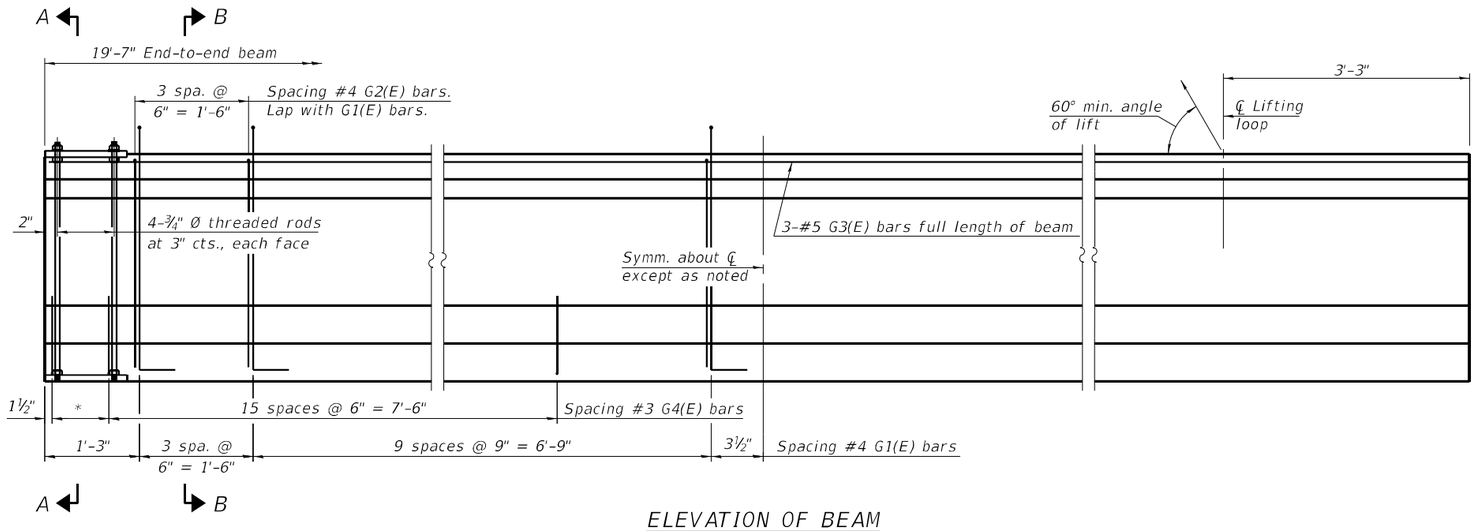
	CHECKED - RPW	REVISED -
PLOT SCALE =	DRAWN - JDC	REVISED -
PLOT DATE =	CHECKED - MDC	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

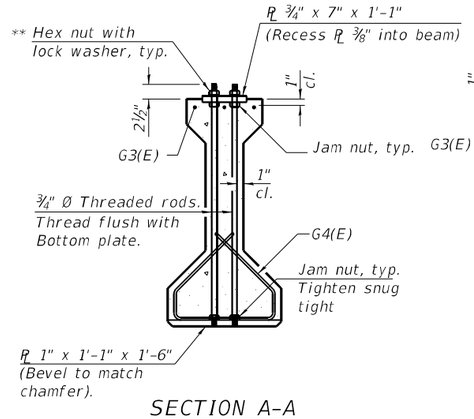
VAULTED APPROACH SPANS FRAMING PLAN
STRUCTURE NO. 068-0035
SHEET 22 OF 33 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(68-5HB-1,2)BRR,BY,D	MONTGOMERY	122	43
		CONTRACT NO. 72A59		
	ILLINOIS	FED. AID PROJECT		

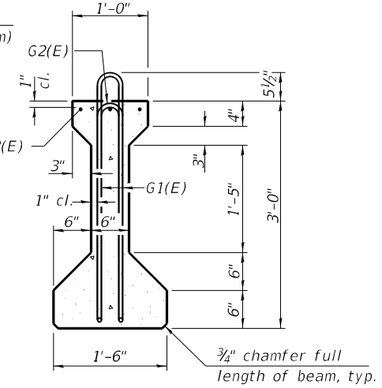


*3 spaces at 3" = 9"

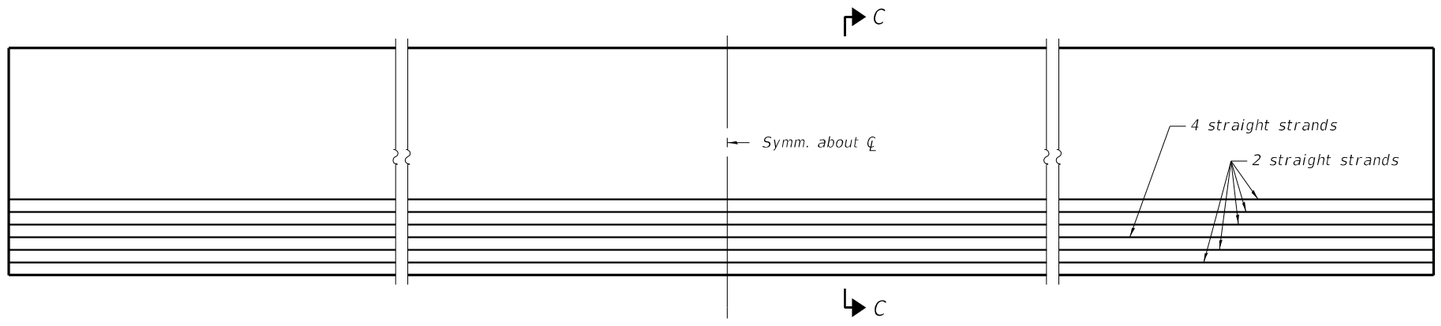
ELEVATION OF BEAM
(Showing reinforcement & dimensions)



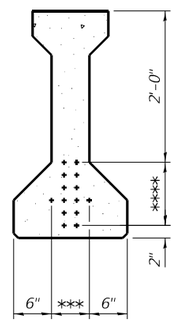
SECTION A-A
** Only tighten sufficiently to compress lock washers



SECTION B-B



ELEVATION OF BEAM
(Showing prestressing steel)



SECTION C-C
(14'-½" Ø 270 ksi strands)
(Strand Pattern 14SU)

*** 3 Spa. at 2" = 6"
**** 5 Spa. at 2" = 10"

BAR LIST
ONE BEAM ONLY
(For information only)

Bar	No.	Size	Length	Shape
G1(E)	26	#4	7'-7"	
G2(E)	26	#4	5'-8"	
G3(E)	3	#5	19'-3"	
G4(E)	38	#3	4'-1"	

Note:
See sheet 25 of 33 for additional details and Bill of Material.

PI-4-36 2-17-2017

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PLOT DATE =	CHECKED - MDC	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WEST APPROACH SPAN PPC I-BEAM
STRUCTURE NO. 068-0035
SHEET 23 OF 33 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(68-5HB-1,2)BRR,BY,D	MONTGOMERY	122	44
		CONTRACT NO. 72A59		
	ILLINOIS	FED. AID PROJECT		

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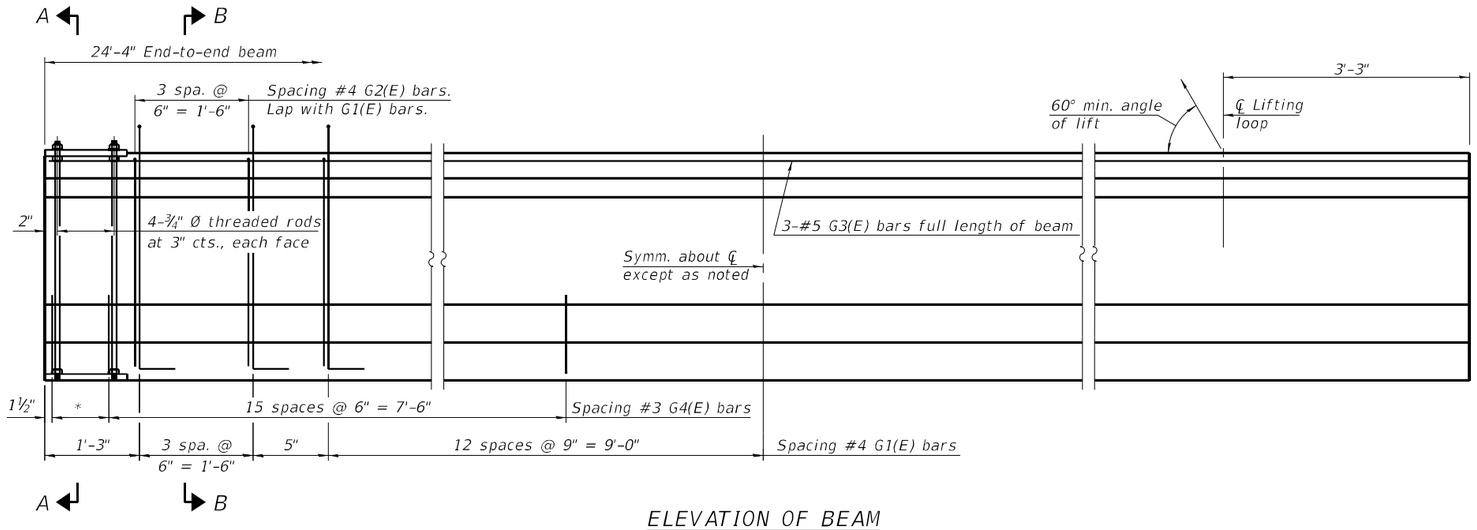
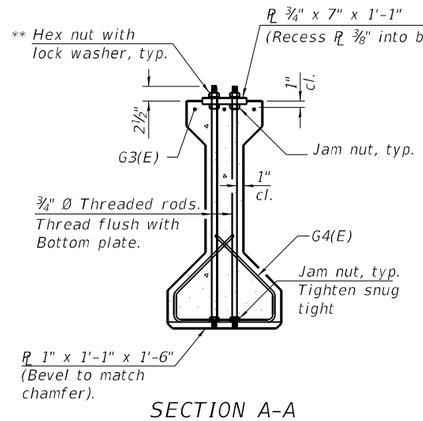
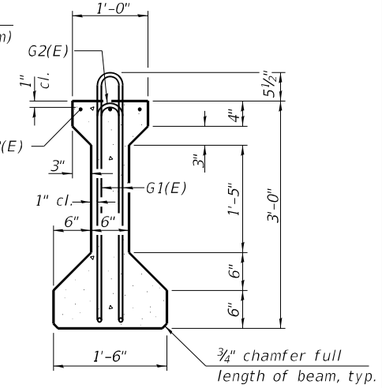


*3 spaces at 3" = 9"

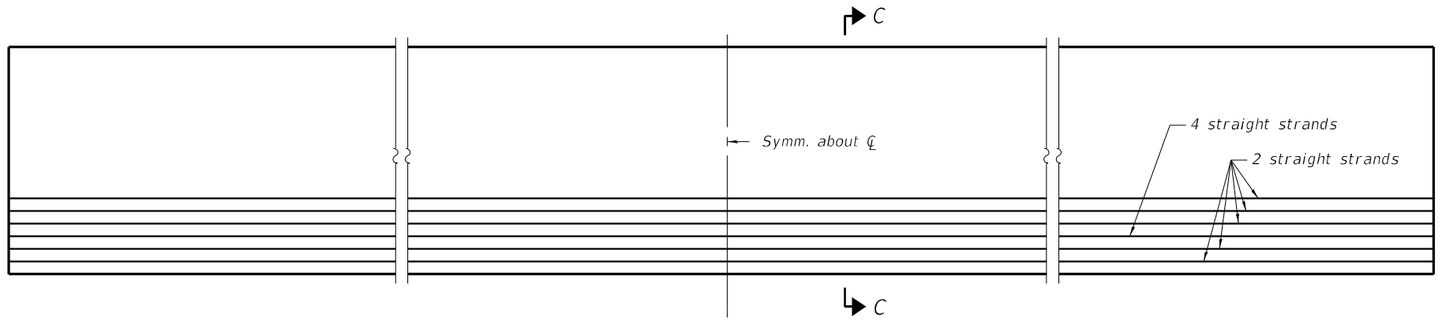
ELEVATION OF BEAM
(Showing reinforcement & dimensions)



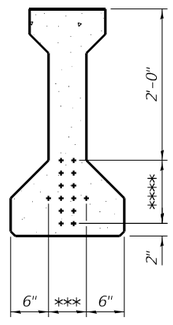
SECTION A-A
** Only tighten sufficiently to compress lock washers



SECTION B-B



ELEVATION OF BEAM
(Showing prestressing steel)



SECTION C-C
(14'-½" Ø 270 ksi strands)
(Strand Pattern 14SU)

*** 3 Spa. at 2" = 6"
**** 5 Spa. at 2" = 10"

BAR LIST
ONE BEAM ONLY
(For information only)

Bar	No.	Size	Length	Shape
G1(E)	33	#4	7'-7"	
G2(E)	33	#4	5'-8"	
G3(E)	3	#5	24'-0"	
G4(E)	38	#3	4'-1"	

Note:
See sheet 25 of 33 for additional details and Bill of Material.

WEST APPROACH SPAN

INTERIOR BEAM MOMENT TABLE		
		0.5 Sp. 1
I	(in^4)	48,648
I'	(in^4)	169,570
Sb	(in^3)	3,165
Sb'	(in^3)	6,013
St	(in^3)	2,358
St'	(in^3)	21,744
ℓ_P	(k/')	1.026
M_{ℓ_P}	('k)	45
s_{ℓ_P}	(k/')	0.369
Ms_{ℓ_P}	('k)	16
LLDF		1.160
M_{ℓ_L}	('k)	87
MI	('k)	26

INTERIOR BEAM REACTION TABLE		
		Supports
LLDF		1.373
R_{ℓ_P}	(k)	9.6
$R_{s_{\ell_P}}$	(k)	3.4
R_{ℓ_L}	(k)	27.5
RI	(k)	8.3
R_{Total} (Service I)	(k)	48.8

EAST APPROACH SPAN

INTERIOR BEAM MOMENT TABLE		
		0.5 Sp. 1
I	(in^4)	48,648
I'	(in^4)	183,024
Sb	(in^3)	3,165
Sb'	(in^3)	6,188
St	(in^3)	2,358
St'	(in^3)	28,496
ℓ_P	(k/')	1.024
M_{ℓ_P}	('k)	71
s_{ℓ_P}	(k/')	0.369
Ms_{ℓ_P}	('k)	25
LLDF		1.160
M_{ℓ_L}	('k)	109
MI	('k)	33

INTERIOR BEAM REACTION TABLE		
		Supports
LLDF		1.373
R_{ℓ_P}	(k)	12.0
$R_{s_{\ell_P}}$	(k)	4.3
R_{ℓ_L}	(k)	30.8
RI	(k)	9.2
R_{Total} (Service I)	(k)	56.3

I: Non-composite moment of inertia of beam section ($in.^4$).
I': Composite moment of inertia of beam section ($in.^4$).
Sb: Non-composite section modulus for the bottom fiber of the prestressed beam ($in.^3$).
Sb': Composite section modulus for the bottom fiber of the prestressed beam ($in.^3$).
St: Non-composite section modulus for the top fiber of the prestressed beam ($in.^3$).
St': Composite section modulus for the top fiber of the prestressed beam ($in.^3$).
ℓ_P: Un-factored non-composite dead load (kips/ft.).
M_{ℓ_P}: Un-factored moment due to non-composite dead load conservatively taken at 0.5 of the span (kip-ft.).
s_{ℓ_P}: Un-factored long-term composite (superimposed) dead load (kips/ft.).
Ms_{ℓ_P}: Un-factored moment due to long-term composite (superimposed) dead load (kip-ft.).
LLDF: Live Load Distribution Factor for moment and shear computed according to AASHTO LFD 3.23.1.
M_{ℓ_L}: Un-factored live load moment on the composite section (kip-ft.).
MI: Un-factored moment due to impact on the composite section (kip-ft.).

NOTES

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

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

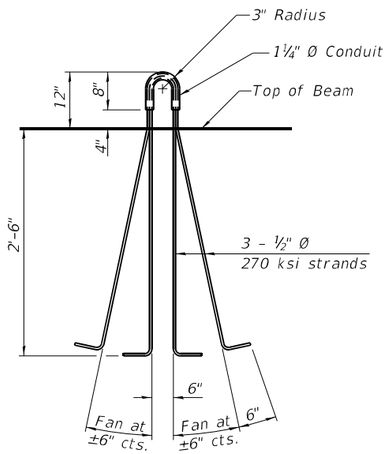
The beams shall have a final concrete compressive strength, f'c, of 6,000 psi and a release concrete compressive strength, f'ci, of 5,000 psi.

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

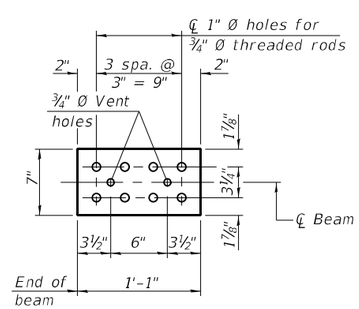
The top and bottom plates shall be AASHTO M270 Grade 50.

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

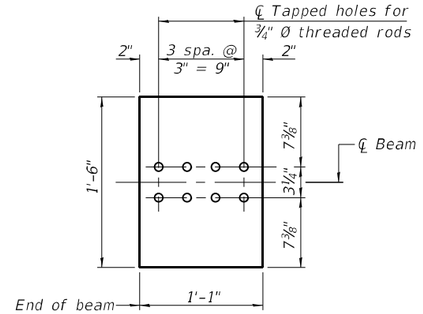
Threaded rods shall be ASTM F 1554 Grade 55.



LIFTING LOOP DETAIL

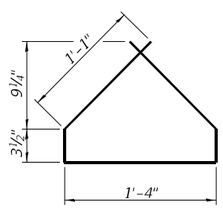


TOP PLATE

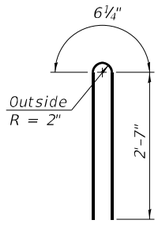


BOTTOM PLATE

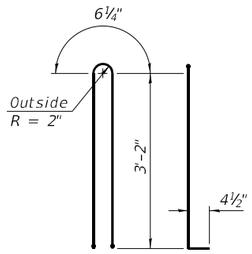
See bearing details for pintle hole locations when required.



BAR G4(E)



BAR G2(E)



BAR G1(E)

BILL OF MATERIAL

Item	Unit	Total
Furnishing and Erecting Precast Prestressed Concrete I-Beams, 36"	Ft.	132.0

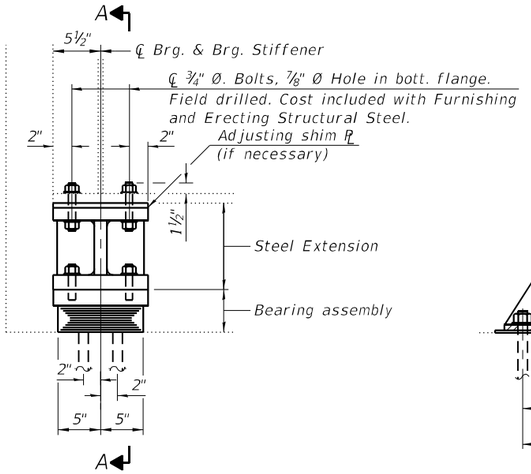
QUIGG ENGINEERING INC

USER NAME =	DESIGNED - CFS	REVISED -	
	CHECKED - RPW	REVISED -	
PLOT SCALE =	DRAWN - JDC	REVISED -	
PLOT DATE =	CHECKED - MDC	REVISED -	

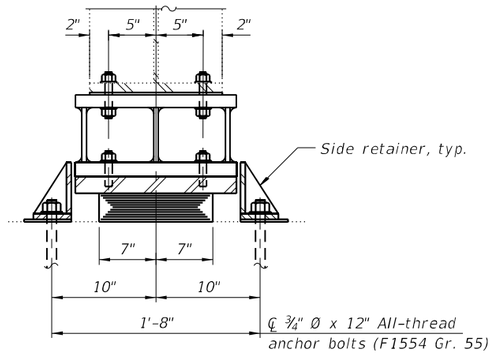
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

APPROACH SPAN PPC I-BEAM DETAILS
STRUCTURE NO. 068-0035
SHEET 25 OF 33 SHEETS

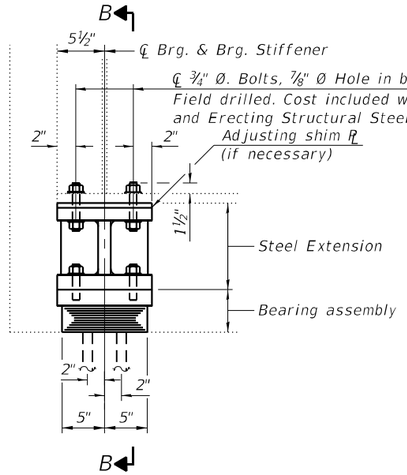
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(68-5HB-1,2)BRR,BY,D	MONTGOMERY	122	46
		CONTRACT NO. 72A59		
	ILLINOIS	FED. AID PROJECT		



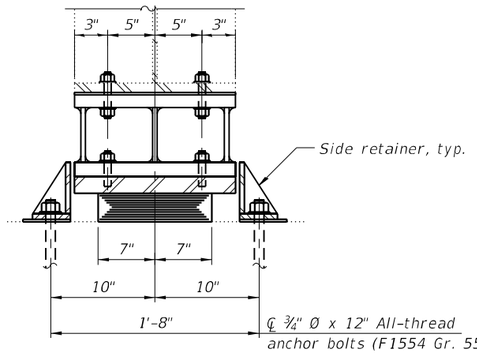
ELEVATION AT WEST ABUT.



SECTION A-A

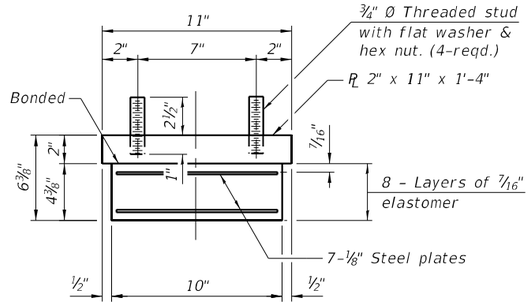


ELEVATION AT EAST ABUT.



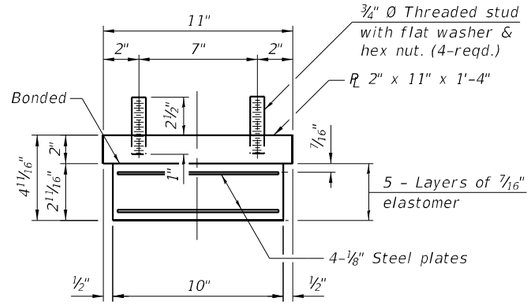
SECTION B-B

WEST ABUT. TYPE I ELASTOMERIC EXP. BRG.

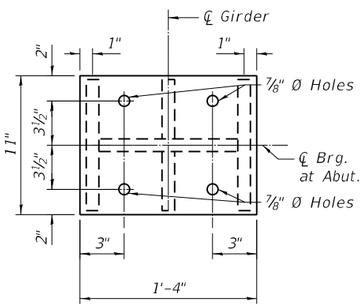


WEST ABUT. BEARING ASSEMBLY

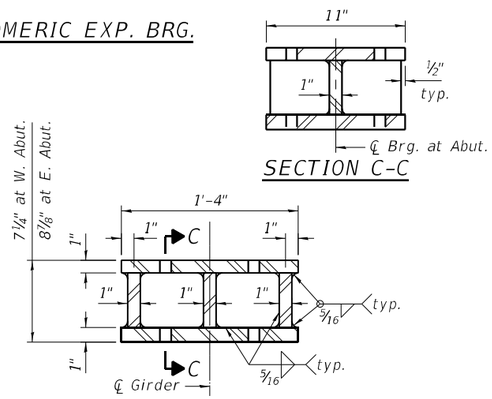
EAST ABUT. TYPE I ELASTOMERIC EXP. BRG.



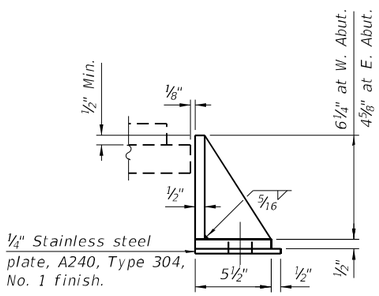
EAST ABUT. BEARING ASSEMBLY



PLAN STEEL EXTENSION AT ABUTMENTS



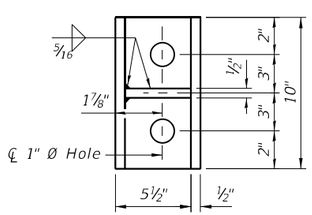
ELEVATION STEEL EXTENSION AT ABUTMENTS

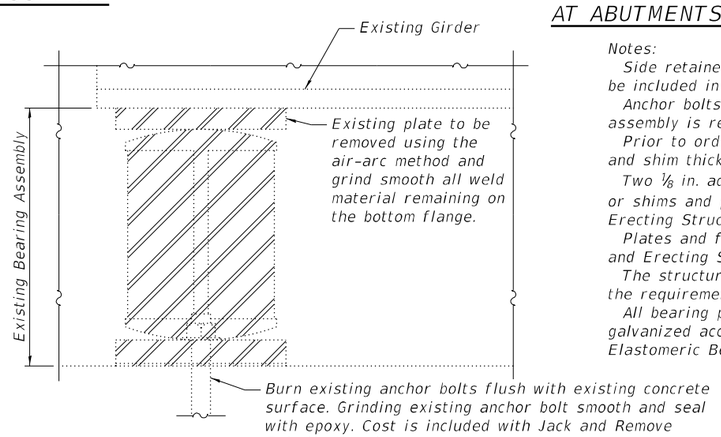


SIDE RETAINER

Equivalent rolled angle with stiffeners will be allowed in lieu of welded plates.

Note:
Shim plates shall not be placed under bearing assembly.





EXISTING BEARING REMOVAL DETAIL (BOTH ABUTMENTS)

(Cost of bearing removal is included with Jack and Remove Existing Bearings)

Notes:

Side retainers and other steel members required for the elastomeric bearing assembly shall be included in the cost of Elastomeric Bearing Assembly, Type I.

Anchor bolts and side retainers at all supports shall be installed as each existing bearing assembly is replaced unless an equivalent temporary means of lateral restraint is used.

Prior to ordering any material, the Contractor shall verify in the field all bearing height and shim thickness dimensions.

Two ⅛ in. adjusting shims shall be provided for each bearing in addition to all other plates or shims and placed as shown. Adjusting shim plates shall be paid for with "Furnishing and Erecting Structural Steel".

Plates and fasteners required for the steel extensions shall be paid for with Furnishing and Erecting Structural Steel.

The structural steel plates of the Bearing Assembly and steel extensions shall conform to the requirements of AASHTO M270 Grade 36.

All bearing plates, steel extensions, side retainers, anchor bolts, nuts, and washers shall be galvanized according to AASHTO M111 or M232 as applicable. Cost shall be included with Elastomeric Bearing Assembly, Type I.

BILL OF MATERIAL

Item	Unit	Total
Furnishing and Erecting Structural Steel	Pound	1,560
Elastomeric Bearing Assembly Type I	Each	8
Anchor Bolts, ¾"	Each	32

MODEL: Default
FILE NAME: S:\2021\21IL057 - PTB 200-32 D6 - Fehr Graham - Various Ph I-IllWO 3 I-55 Bridge Redeck 068-0035\CADD\CADD Sheets\068003

QUIGG ENGINEERING INC

USER NAME =	DESIGNED - CFS	REVISED -	
	CHECKED - RPW	REVISED -	
PLOT SCALE =	DRAWN - JDC	REVISED -	
PLOT DATE =	CHECKED - MDC	REVISED -	

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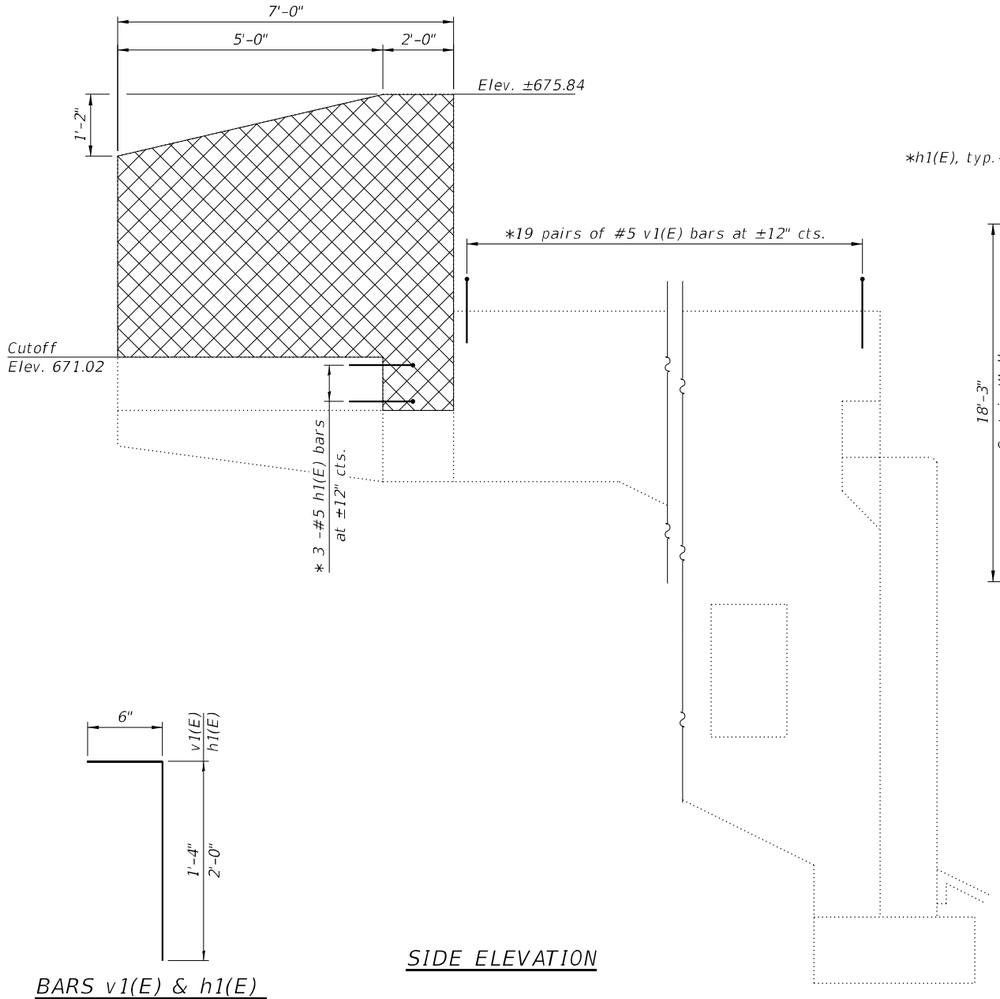
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BEARING DETAILS
STRUCTURE NO. 068-0035

SHEET 26 OF 33 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(68-5HB-1,2)BRR,BY,D	MONTGOMERY	122	47
		CONTRACT NO. 72A59		
	ILLINOIS	FED. AID PROJECT		



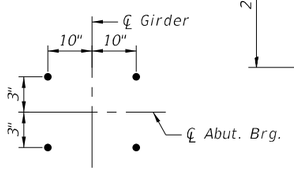
SIDE ELEVATION

BARS v1(E) & h1(E)

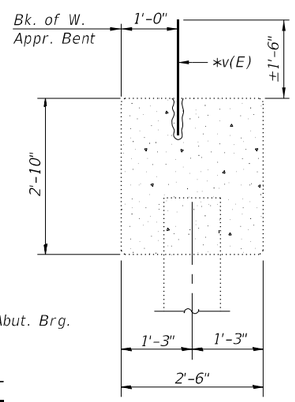
Notes:
Drill and epoxy grout bars according to Article 584 of the Standard Specifications. The cost of drilling and grouting bars shall be included with Reinforcement Bars, Epoxy Coated.
Existing reinforcement shall be cut flush with the existing concrete surface. Cost included with Concrete Removal.

BILL OF MATERIAL

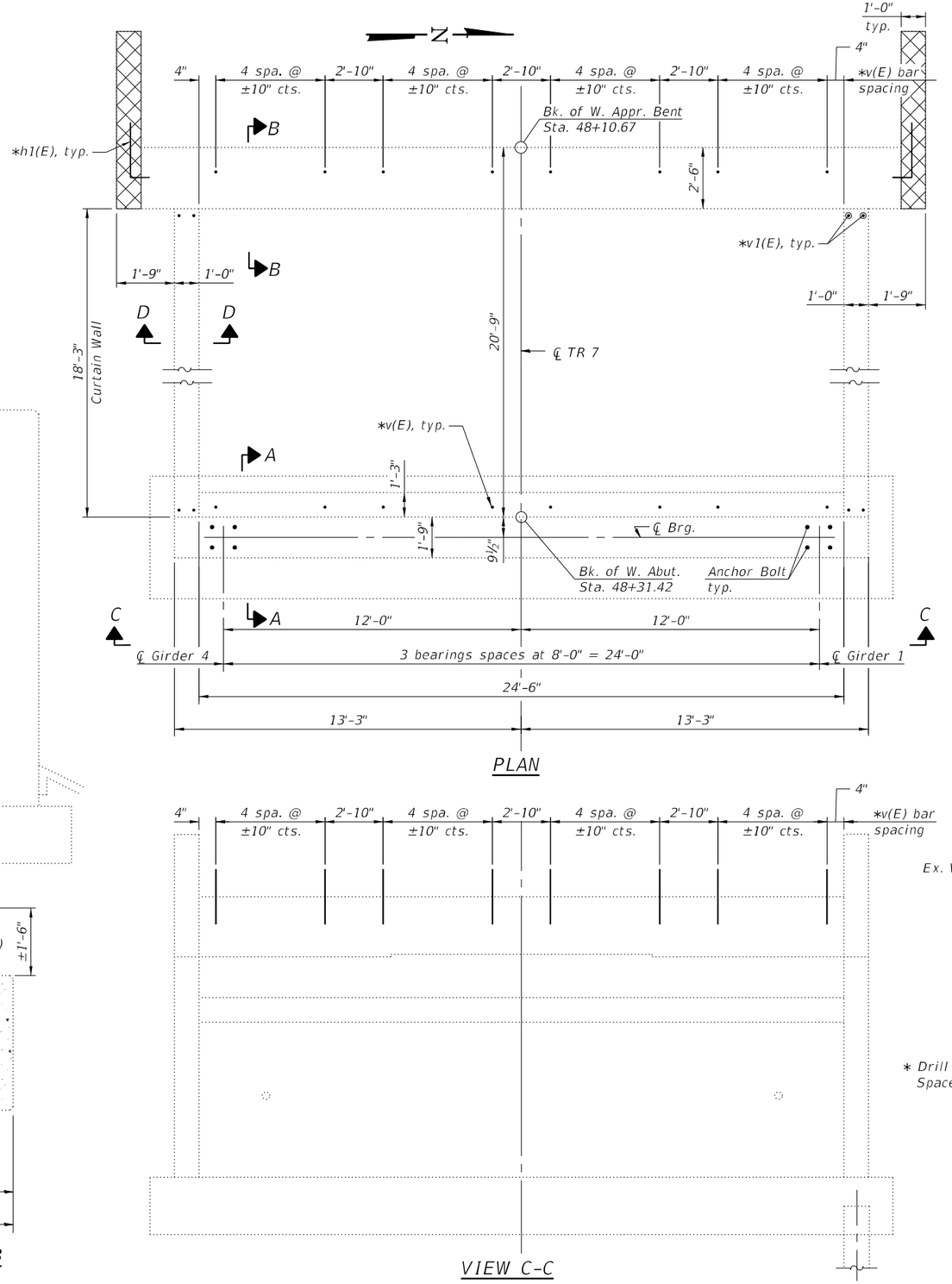
Bar	No.	Size	Length	Shape
h1(E)	6	#5	2'-6"	⌐
v(E)	40	#5	2'-3"	—
v1(E)	76	#5	1'-10"	⌐
Reinforcement Bars, Epoxy Coated			Pound	260
Concrete Removal			Cu. Yd.	2.7



ANCHOR BOLT LAYOUT

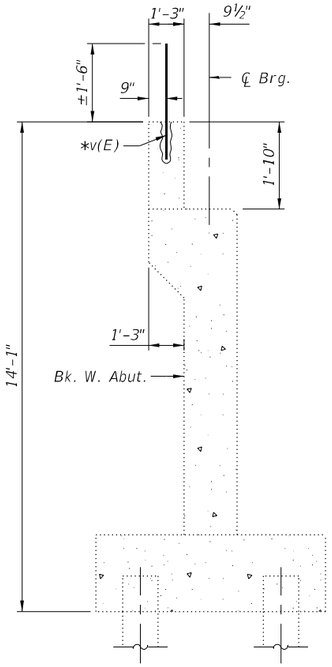


SECTION B-B

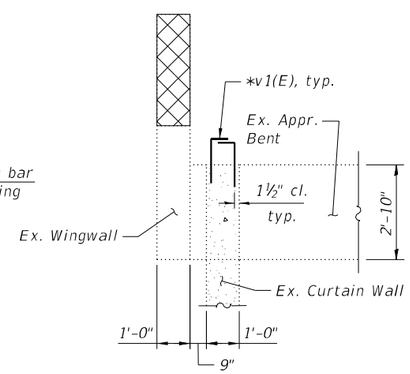


PLAN

VIEW C-C



SECTION A-A



SECTION D-D

* Drill and epoxy grout bars. 9" min. embedment. Space to miss existing bars.

LEGEND

Existing Concrete Removal

MODEL: Default
FILE NAME: S:\2021\21IL057 - PTB 200-32 D6 - Fehr Graham - Various Ph II\WO 3 I-55 Bridge Redeck 068-0035\CADD\CADD Sheets\0680035-72A59-027-West Abutment.dgn
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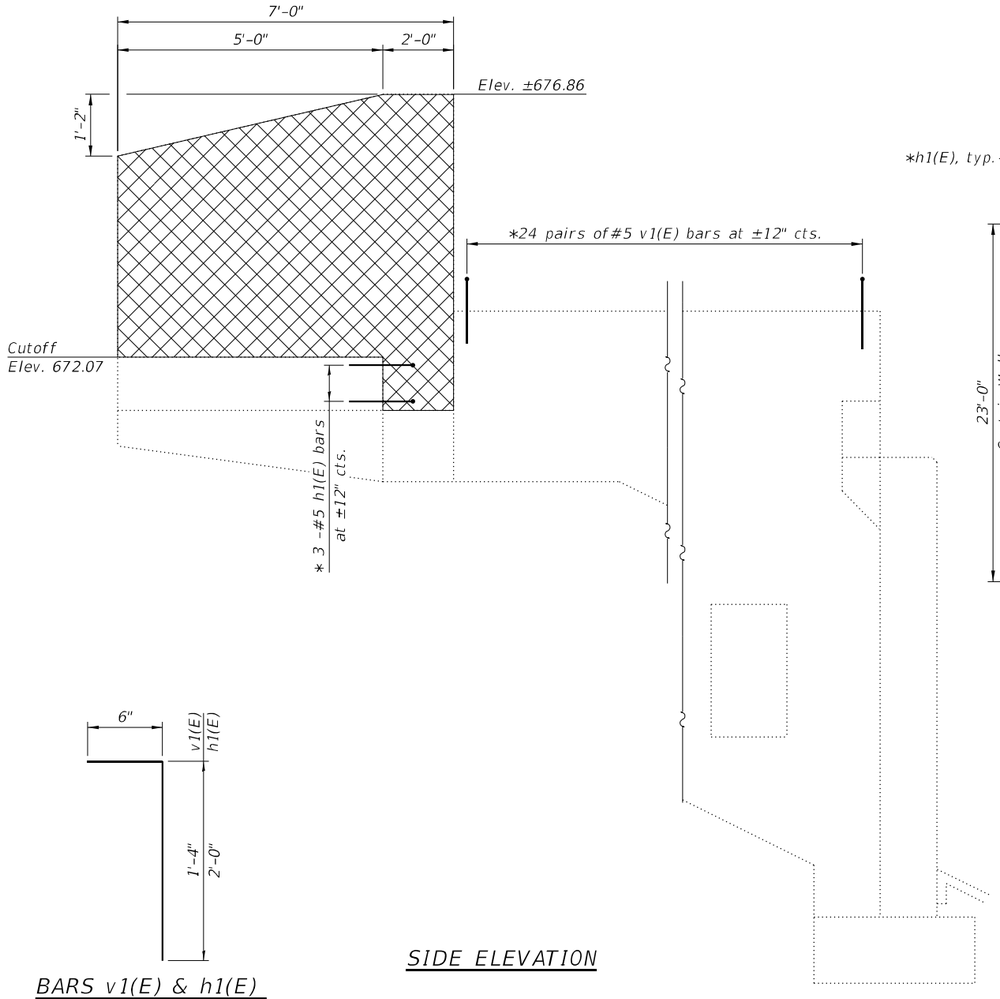
QUIGG ENGINEERING INC

USER NAME =	DESIGNED - CFS	REVISED -
	CHECKED - RPW	REVISED -
PLOT SCALE =	DRAWN - JDC	REVISED -
PLOT DATE =	CHECKED - MDC	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WEST ABUTMENT
STRUCTURE NO. 068-0035
SHEET 27 OF 33 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(68-5HB-1,2)BRR,BY,D	MONTGOMERY	122	48
		CONTRACT NO. 72A59		
	ILLINOIS	FED. AID PROJECT		



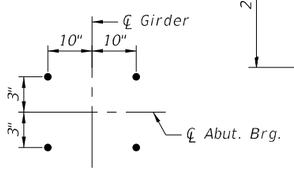
SIDE ELEVATION

BARS v1(E) & h1(E)

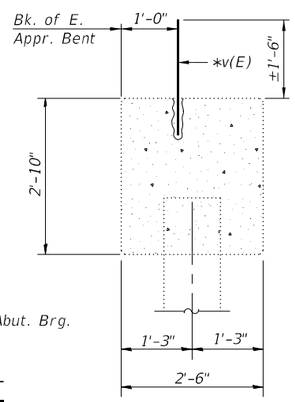
Notes:
Drill and epoxy grout bars according to Article 584 of the Standard Specifications. The cost of drilling and grouting bars shall be included with Reinforcement Bars, Epoxy Coated.
Existing reinforcement shall be cut flush with the existing concrete surface. Cost included with Concrete Removal.

BILL OF MATERIAL

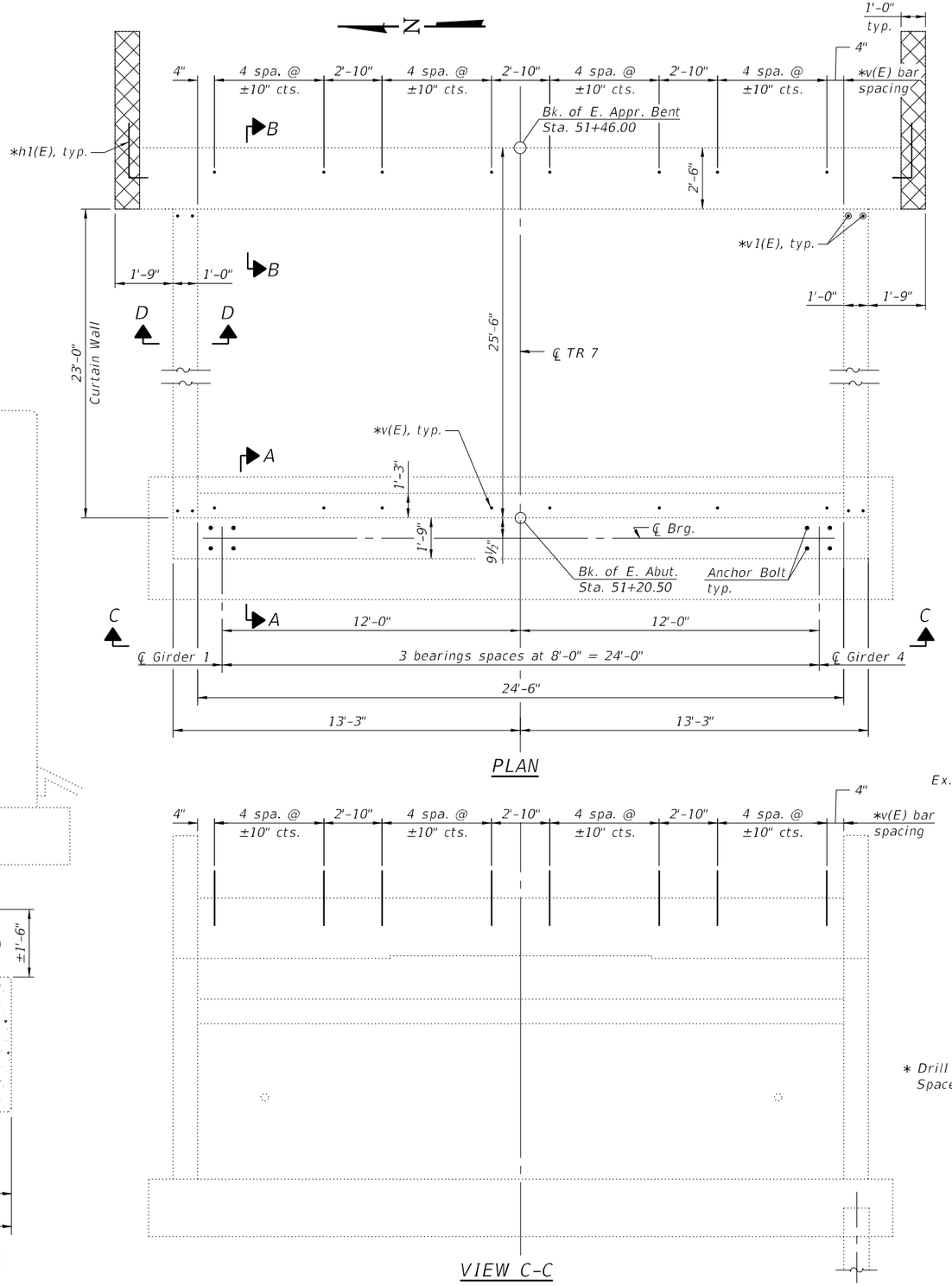
Bar	No.	Size	Length	Shape
h1(E)	6	#5	2'-6"	⌐
v(E)	40	#5	2'-3"	—
v1(E)	96	#5	1'-10"	⌐
Reinforcement Bars, Epoxy Coated			Pound	300
Concrete Removal			Cu. Yd.	2.7



ANCHOR BOLT LAYOUT

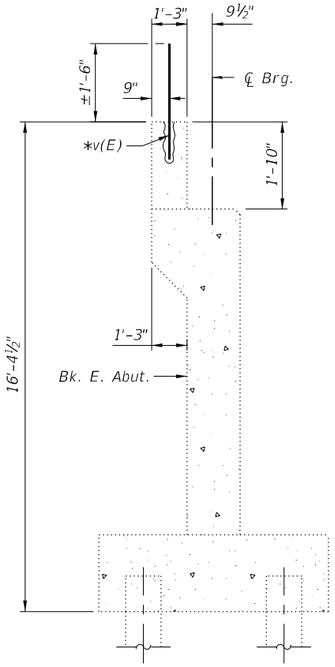


SECTION B-B

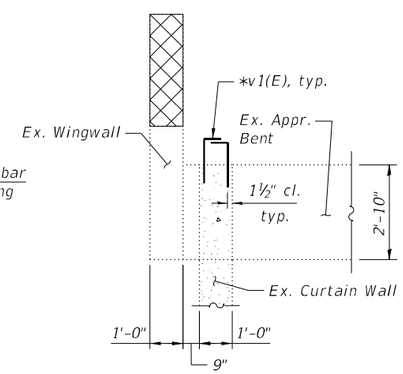


PLAN

VIEW C-C



SECTION A-A



SECTION D-D

* Drill and epoxy grout bars. 9" min. embedment. Space to miss existing bars.

LEGEND

Existing Concrete Removal

QUIGG ENGINEERING INC	USER NAME =	DESIGNED - CFS	REVISED -
		CHECKED - RPW	REVISED -
	PLOT SCALE =	DRAWN - JDC	REVISED -
	PLOT DATE =	CHECKED - MDC	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EAST ABUTMENT
STRUCTURE NO. 068-0035
SHEET 28 OF 33 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(68-5HB-1,2)BRR,BY,D	MONTGOMERY	122	49
		CONTRACT NO. 72A59		
	ILLINOIS	FED. AID PROJECT		

MODEL: Default
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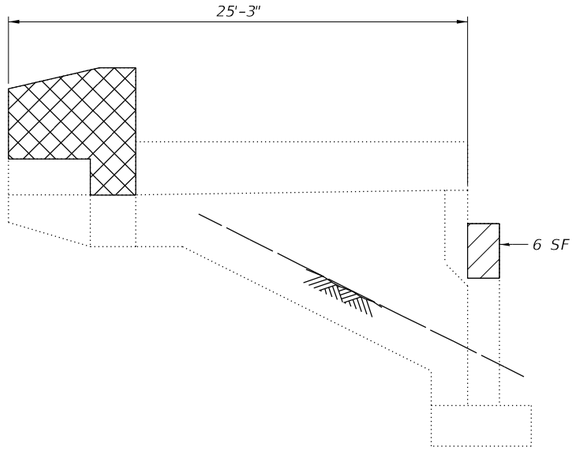
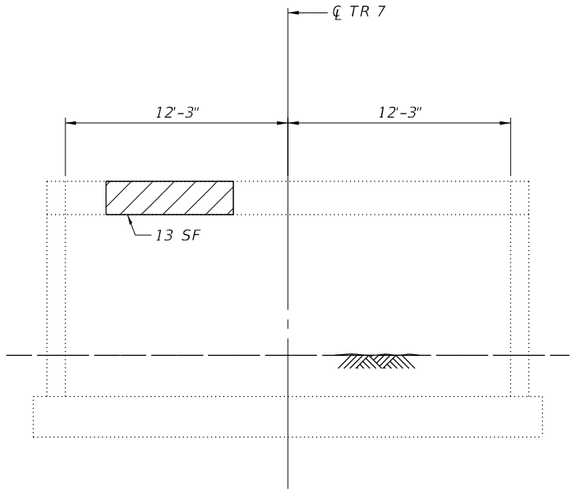


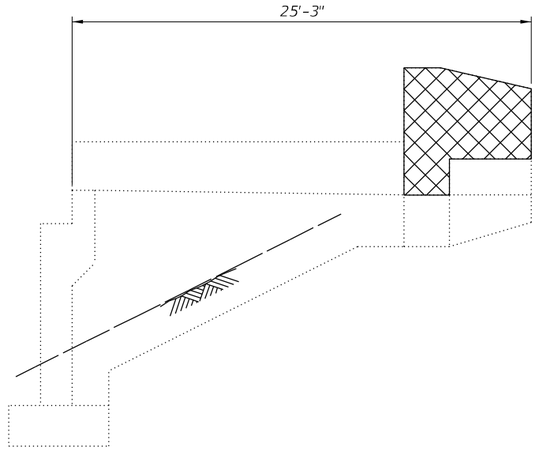
W. ABUT. ELEVATION

(South Wingwall, Looking North)



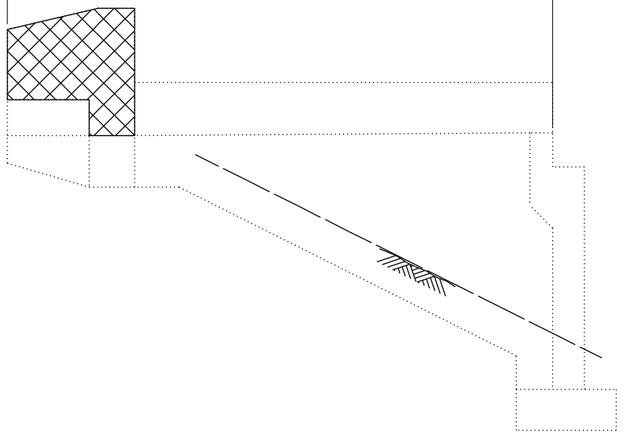
W. ABUT. ELEVATION

(Looking West)



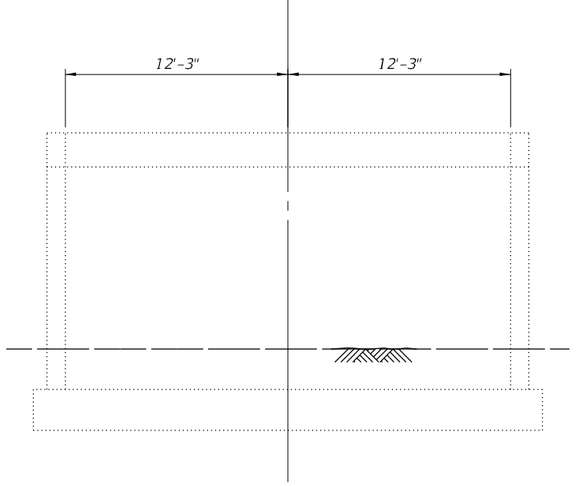
W. ABUT. ELEVATION

(North Wingwall, Looking South)



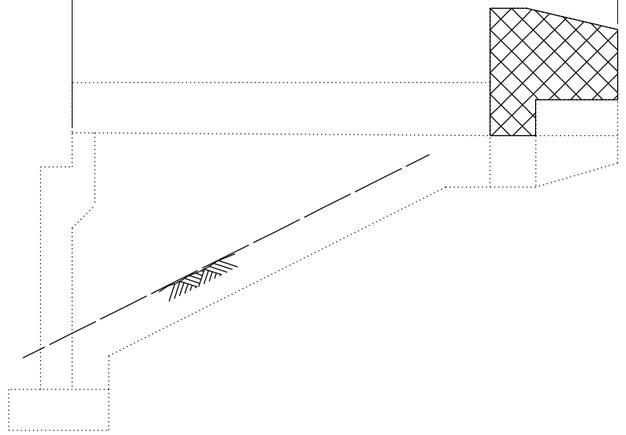
E. ABUT. ELEVATION

(North Wingwall, Looking South)



E. ABUT. ELEVATION

(Looking East)



E. ABUT. ELEVATION

(South Wingwall, Looking North)

LEGEND

Structral Repair of Concrete
(Depth Equal to or Less than 5")

Existing Concrete Removal

BILL OF MATERIAL

Item	Unit	Total
Structural Repair of Concrete (Depth Equal to or Less than 5")	Sq. Ft.	19

MODEL: Default
FILE NAME: S:\2021\21IL057 - PTB 200-32 D6 - Fehr Graham - Various Ph I-III\WO 3 I-55 Bridge Redeck 068-0035\CADD\CADD Sheets\0680035-72A59-029-Abutment Repairs.dgn
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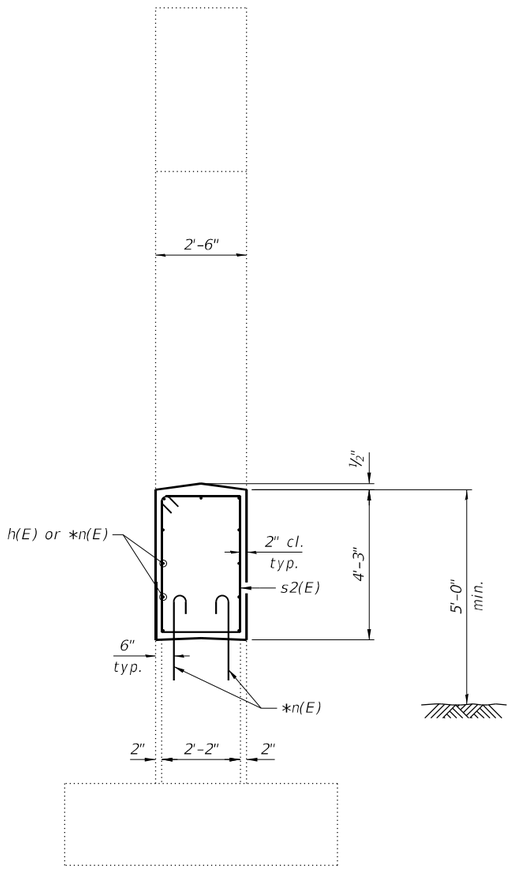
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ABUTMENT REPAIRS
STRUCTURE NO. 068-0035

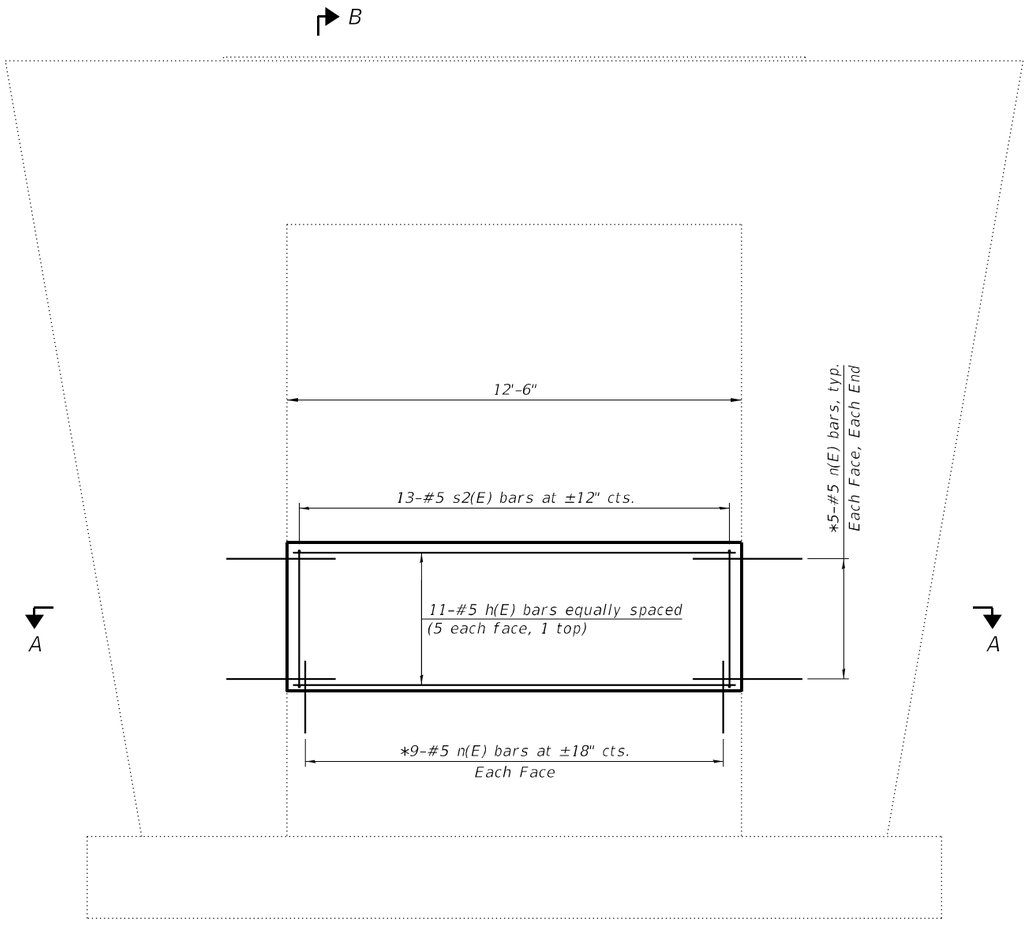
SHEET 29 OF 33 SHEETS

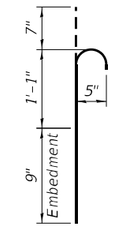
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(68-5HB-1,2)BRR,BY,D	MONTGOMERY	122	50
		CONTRACT NO. 72A59		
	ILLINOIS	FED. AID PROJECT		

Note:
Drill and epoxy grout bars according to Article 584 of the Standard Specifications. The cost of drilling and grouting bars shall be included with Reinforcement Bars, Epoxy Coated.

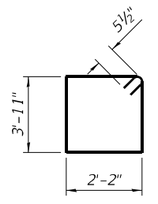


SECTION B-B



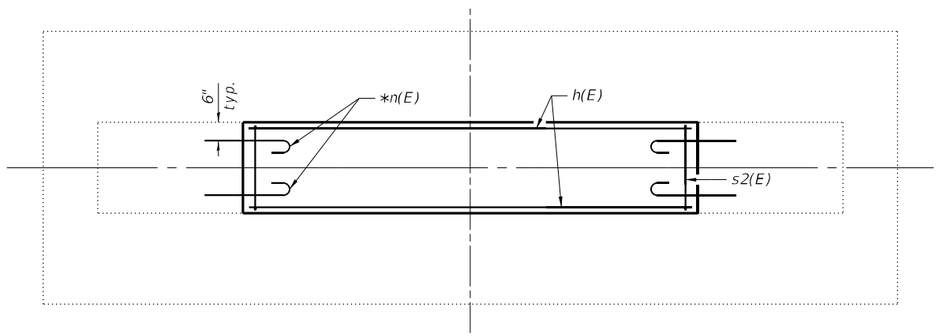


BAR n(E)



BAR s2(E)

B ELEVATION



SECTION A-A

* Drill and epoxy grout bars. 9" min. embedment. Space to miss existing bars.

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h(E)	11	#5	12'-2"	
n(E)	38	#5	2'-5"	
s2(E)	13	#5	13'-1"	
Concrete Structures			Cu. Yd.	5.0
Reinforcement Bars, Epoxy Coated			Pound	420

MODEL: Default
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QUIGG ENGINEERING INC

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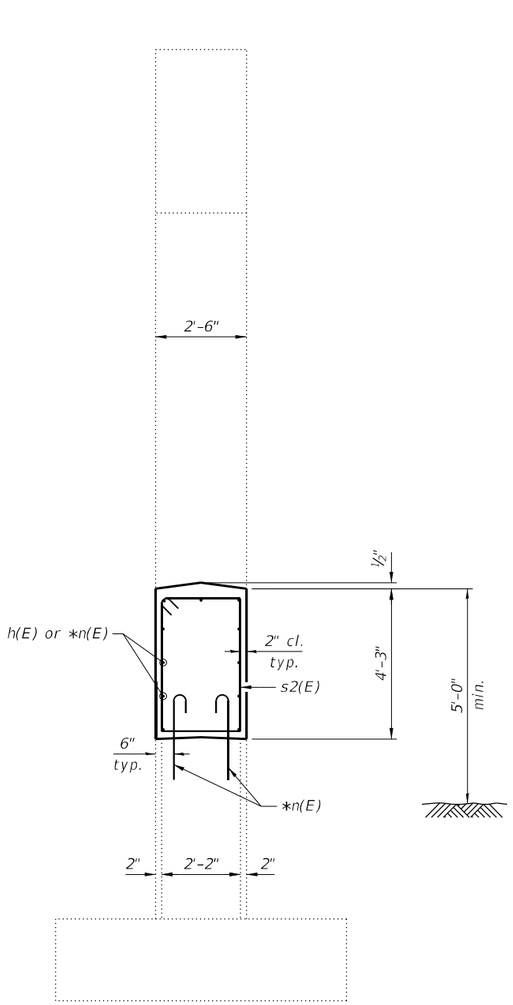
	CHECKED - RPW	REVISED -	
PLOT SCALE =	DRAWN - JDC	REVISED -	
PLOT DATE =	CHECKED - MDC	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PIER 1
STRUCTURE NO. 068-0035
SHEET 30 OF 33 SHEETS

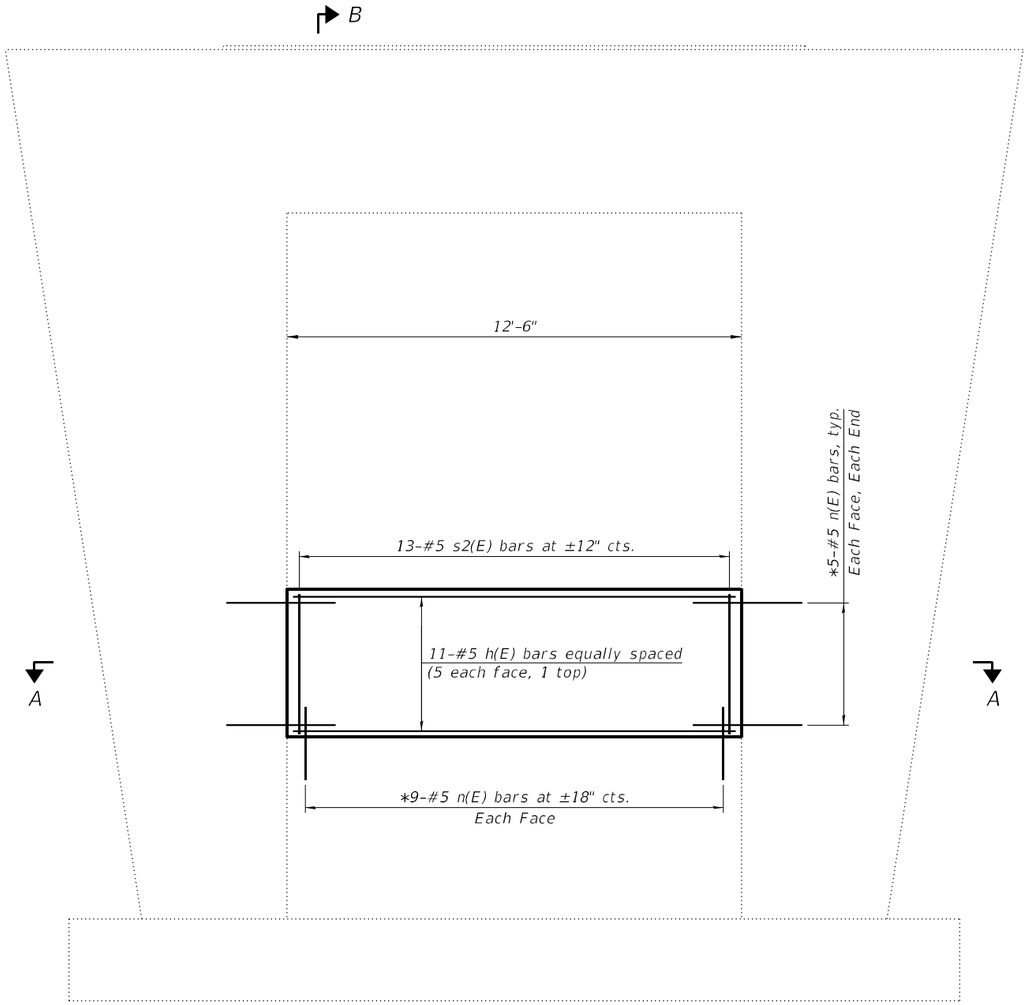
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(68-5HB-1,2)BRR,BY,D	MONTGOMERY	122	51
		CONTRACT NO. 72A59		
	ILLINOIS	FED. AID PROJECT		

Note:
Drill and epoxy grout bars according to Article 584 of the Standard Specifications. The cost of drilling and grouting bars shall be included with Reinforcement Bars, Epoxy Coated.

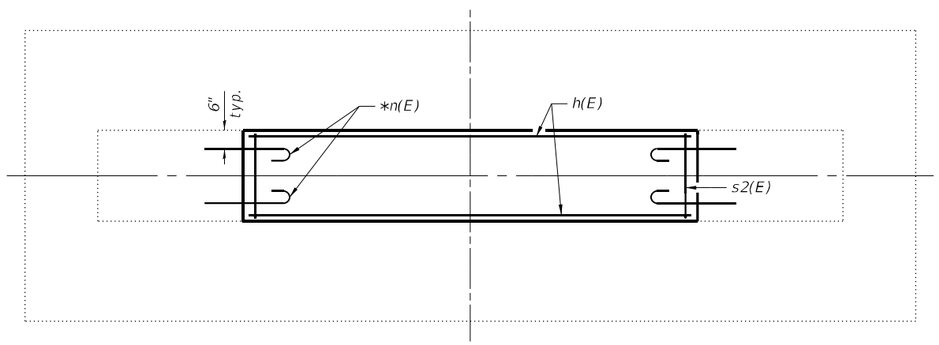


SECTION B-B

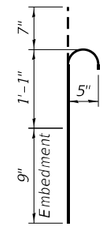
B



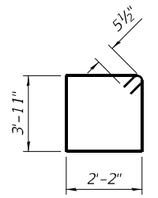
B ELEVATION



SECTION A-A



BAR n(E)



BAR s2(E)

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h(E)	11	#5	12'-2"	
n(E)	38	#5	2'-5"	
s2(E)	13	#5	13'-1"	
Concrete Structures			Cu. Yd.	5.0
Reinforcement Bars, Epoxy Coated			Pound	420

* Drill and epoxy grout bars. 9" min. embedment. Space to miss existing bars.

MODEL: Default
FILE NAME: S:\2021\21IL057 - PTB 200-32 D6 - Fehr Graham - Various Ph HIWO 3 I-55 Bridge Redeck 068-0035\CADD\CADD Sheets\068003

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USER NAME =	DESIGNED - CFS	REVISED -
	CHECKED - RPW	REVISED -
PLOT SCALE =	DRAWN - JDC	REVISED -
PLOT DATE =	CHECKED - MDC	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PIER 2
STRUCTURE NO. 068-0035
SHEET 31 OF 33 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(68-5HB-1,2)BRR,BY,D	MONTGOMERY	122	52
		CONTRACT NO. 72A59		
	ILLINOIS	FED. AID PROJECT		

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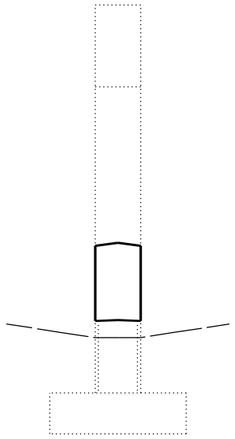
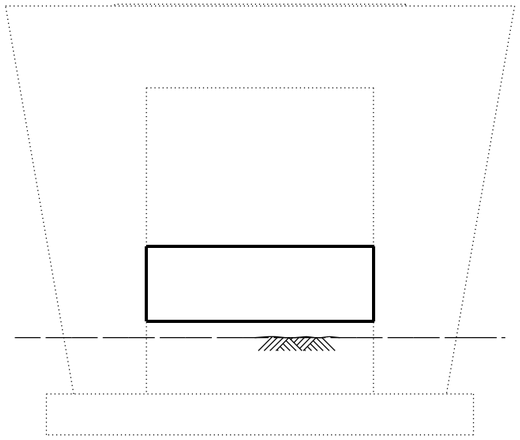


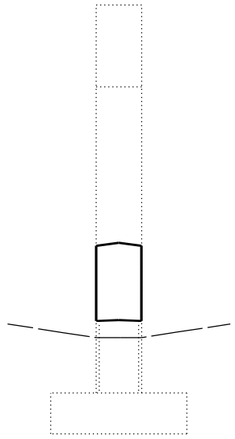
PIER 1 ELEVATION

(Looking North)



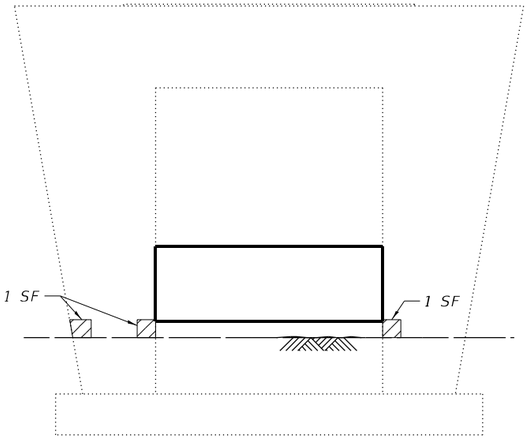
PIER 1 ELEVATION

(Looking West)



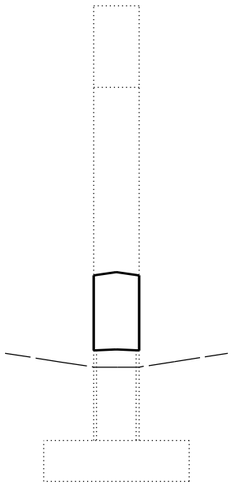
PIER 1 ELEVATION

(Looking South)



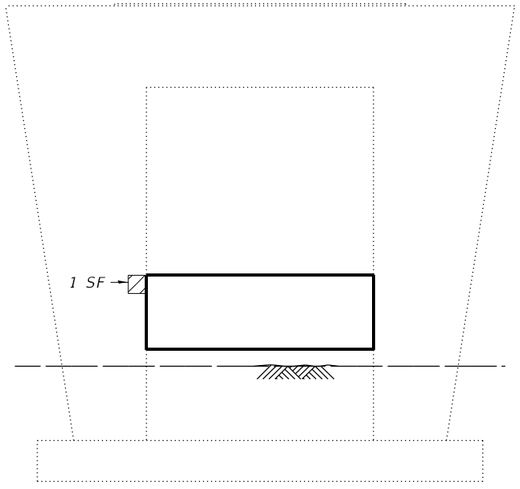
PIER 1 ELEVATION

(Looking East)



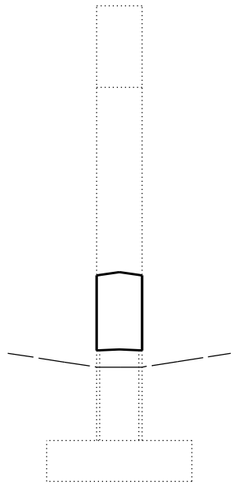
PIER 2 ELEVATION

(Looking North)



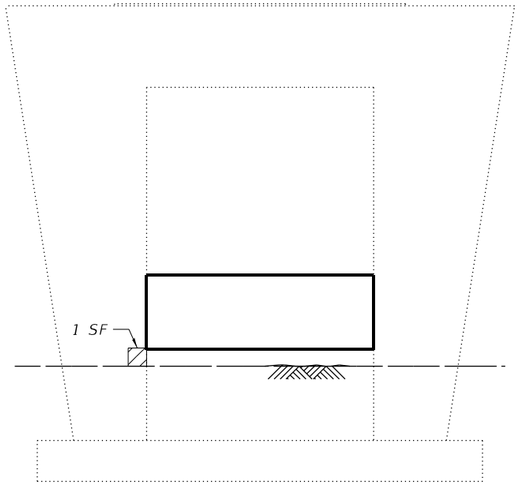
PIER 2 ELEVATION

(Looking West)



PIER 2 ELEVATION

(Looking South)



PIER 2 ELEVATION

(Looking East)

LEGEND

Structral Repair of Concrete
(Depth Equal to or Less than 5")

BILL OF MATERIAL

Item	Unit	Total
Structural Repair of Concrete (Depth Equal to or Less than 5")	Sq. Ft.	5

MODEL: Default
FILE NAME: S:\2021\21IL057 - PTB 200-32 D6 - Fehr Graham - Various Ph I-III\WO 3 I-55 Bridge Redeck 068-0035\CADD\CADD Sheets\068O035-72A59-032-Pier Repairs.dgn
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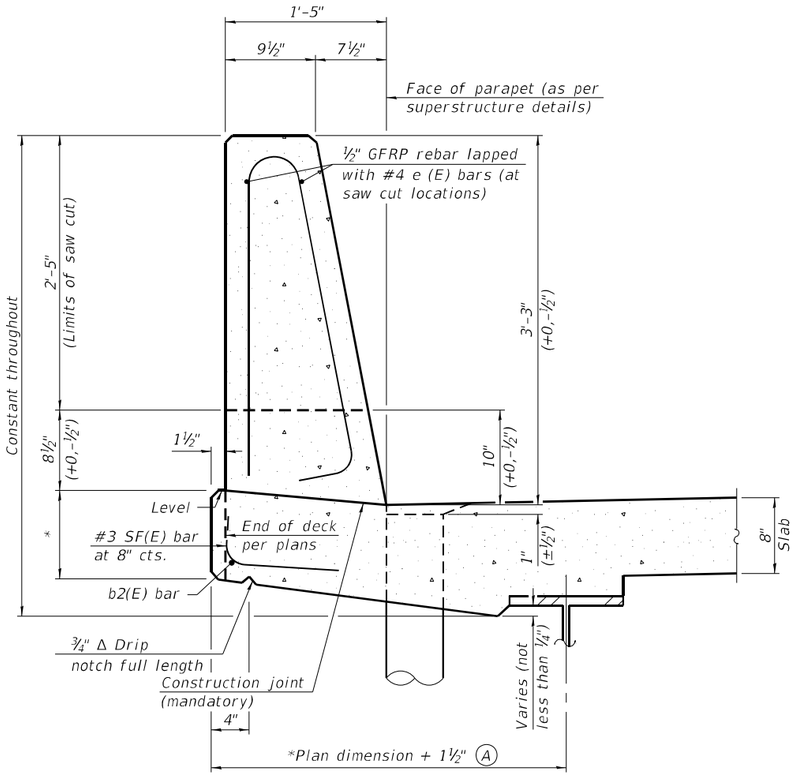
	CHECKED - RPW	REVISED -
PLOT SCALE =	DRAWN - JDC	REVISED -
PLOT DATE =	CHECKED - MDC	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

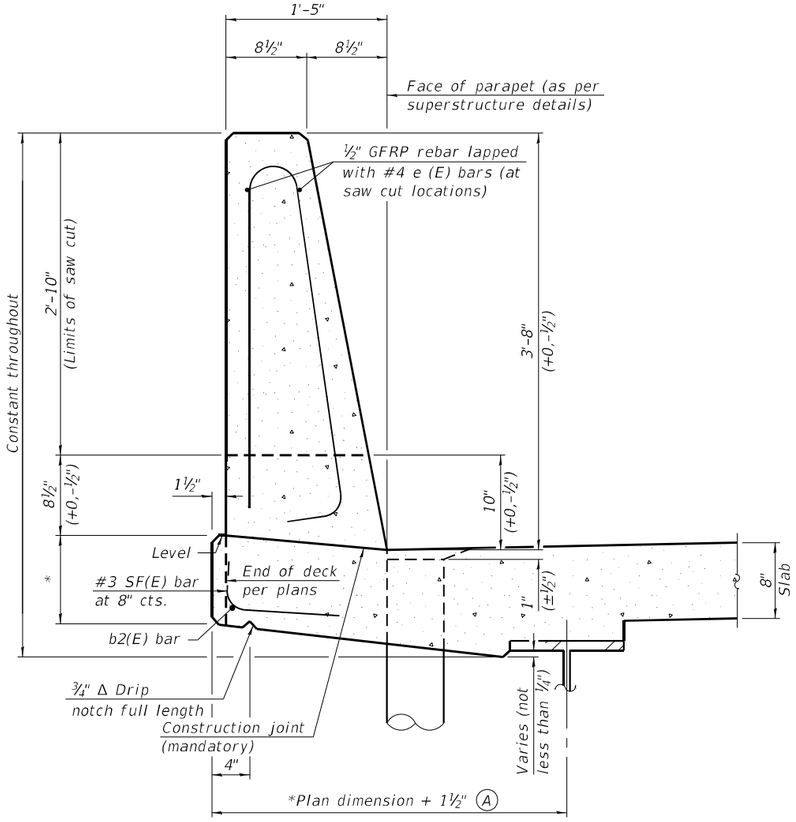
PIER REPAIRS
STRUCTURE NO. 068-0035
SHEET 32 OF 33 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(68-5HB-1,2)BRR,BY,D	MONTGOMERY	122	53
		CONTRACT NO. 72A59		
	ILLINOIS	FED. AID PROJECT		



39" CONSTANT-SLOPE PARAPET SECTION

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



44" CONSTANT-SLOPE PARAPET SECTION

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

*See Superstructure Details.

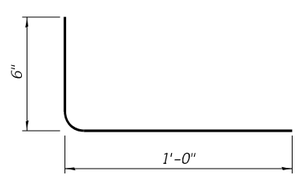
Notes:

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

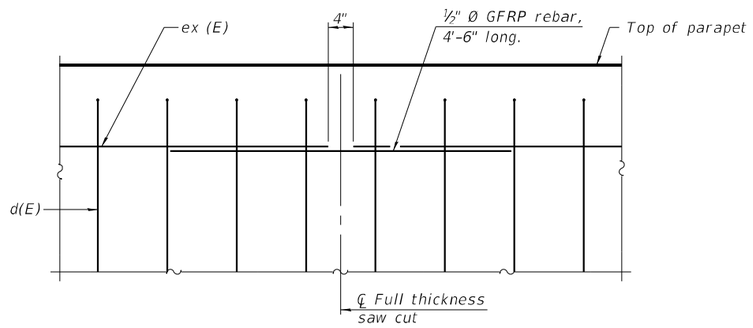
Place full depth aluminum sheets as shown on superstructure details.

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

Steel superstructure shown. Other superstructure types similar.



SF(E) BAR



GFRP REBAR STIFFENING DETAIL

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

SFP 39-44 11-1-2022

QUIGG ENGINEERING INC	USER NAME =	DESIGNED - CFS	REVISED -
		CHECKED - RPW	REVISED -
	PLOT SCALE =	DRAWN - JDC	REVISED -
	PLOT DATE =	CHECKED - MDC	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CONCRETE PARAPET SLIPFORMING OPTION
STRUCTURE NO. 068-0035
SHEET 33 OF 33 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(68-5HB-1,2)BRR,BY,D	MONTGOMERY	122	54
		CONTRACT NO. 72A59		
	ILLINOIS	FED. AID PROJECT		

MODEL: Default
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Bencmark: BM TJM 3, Set cut {} in N.E. corner of S.W. abutment parapet wall on SN 068-0036, Elev. 675.866

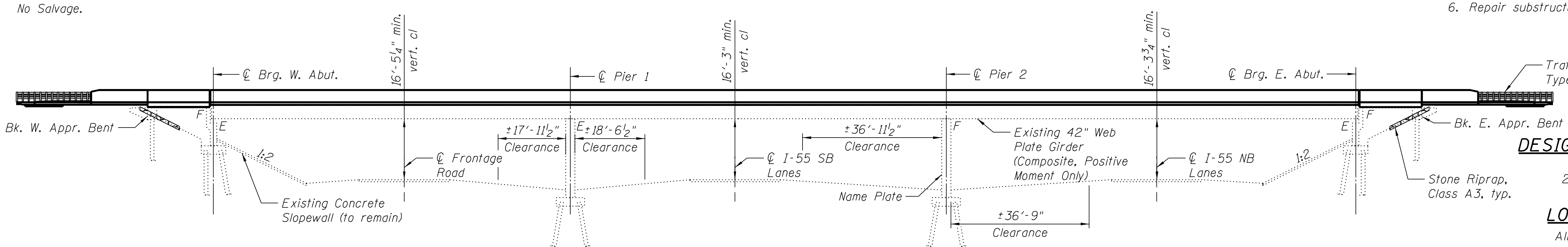
Existing Structure: SN 068-0036 was originally built in 1970 as FAI 55, Section 68-5HB-1, as a 3-span 42" web steel plate girder supporting a 7.5" composite reinforced concrete deck. The substructure consists of vaulted concrete abutments and two, 2-column trapezoidal concrete piers. A 1.5" overlay was placed in 1986. In 1997, the abutment bearings were replaced with elastomeric bearings, and the preformed joint seals were replaced. In 2002, the east end of the south two girders were replaced due to impact and repairs made to the other two girders. The steel was painted in 2019. The structure has an overall length of 339'-0" back-to-back of approach bents and the deck is 30'-0" out-to-out.

Traffic will be detoured during construction.

No Salvage.

SCOPE OF WORK

1. Remove and replace existing concrete deck and vaulted approach span. Construct approach slabs.
2. Remove and replace the bearings with new elastomeric bearings at the abutments.
3. Repair the steel girders. Remove and replace the diaphragms at the abutments.
4. Clean and paint end 10'-0" of all girders and other structural steel at both abutments.
5. Raise the pier crash walls to be at least 5' above grade.
6. Repair substructure units.



ELEVATION

(Looking North)

DESIGN SPECIFICATIONS (NEW CONSTR.)

2002 AASHTO Standard Specifications
2006 Seismic Retrofit Manual for Highway Structures Part 1 - Bridges (FHWA)

LOADING HS20-44 (NEW CONSTR.)

Allow 25 psf for future wearing surface.

SEISMIC DATA

Seismic Retrofit Category (SRC) = A
Design Spectral Acceleration at 1.0 sec (SD1) = 0.114
Design Spectral Acceleration at 0.2 sec (SDS) = 0.213
Soil Site Class = C
Performance Level = PL 1

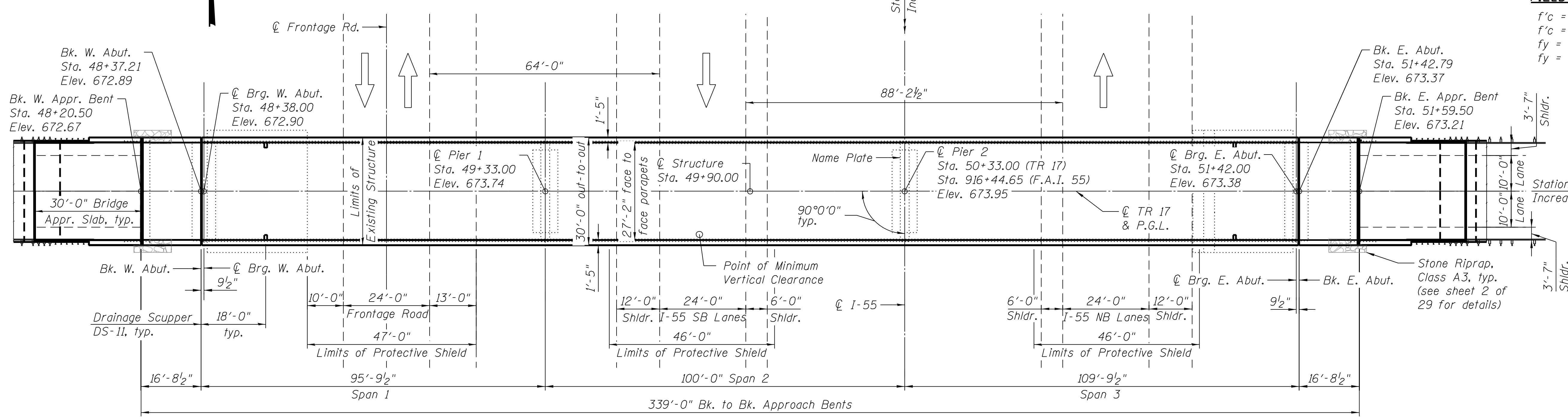
DESIGN STRESSES

FIELD UNITS (New Construction)

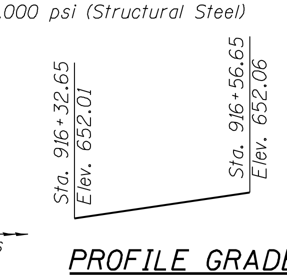
f'c = 4,000 psi (Superstructure)
f'c = 3,500 psi (Substructure)
fy = 60,000 psi (Reinforcement)
fy = 36,000 psi (M270 Grade 36)
fy = 50,000 psi (M270 Grade 50)

FIELD UNITS (Exist. Construction)

f'c = 3,000 psi (Superstructure)
f'c = 3,500 psi (Substructure)
fy = 40,000 psi (Reinforcement)
fy = 36,000 psi (Structural Steel)

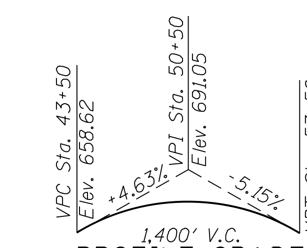


PLAN



PROFILE GRADE

(℄ Frontage Road)



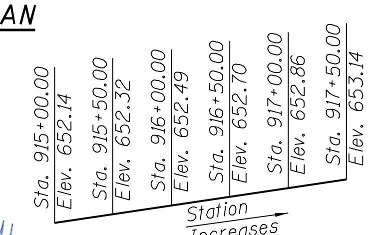
PROFILE GRADE

(along ℄ TR 17)

ROBERT WHITESIDE 081-008015 — LICENSED STRUCTURAL ENGINEER — STATE OF ILLINOIS

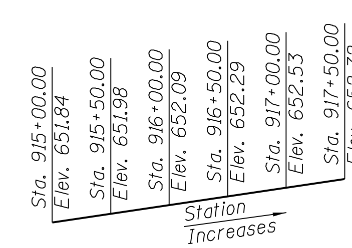
Robert Whiteside 10/03/2024
Robert Whiteside, Illinois S.E. 081-008015 Date
Expires 11/30/2026

APPROVED
For Structural Adequacy Only
Engineer of Bridges & Structures



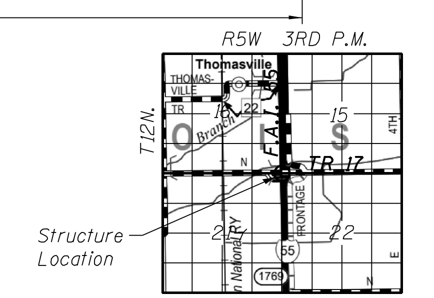
PROFILE GRADE

(F.A.I. 55 SB)



PROFILE GRADE

(F.A.I. 55 NB)



LOCATION SKETCH

GENERAL PLAN AND ELEVATION
TR 17 OVER I-55
F.A.I. RTE. 55
SECTION (68-5HB-1,2)BRR,BY,D
MONTGOMERY COUNTY
STA. 916+44.59
STRUCTURE NO. 068-0036

USER NAME = Structures2	DESIGNED - ZLD	REVISED -	
0680036-72A59-001-GPE.dgn	CHECKED - RPW	REVISED -	
PLOT SCALE = 32.0.000000 ':' / in.	DRAWN - JDC	REVISED -	
PLOT DATE =	CHECKED - MDC	REVISED -	

QUIGG ENGINEERING INC

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN AND ELEVATION
STRUCTURE NO. 068-0036

SHEET 1 OF 29 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(68-5HB-1,2)BRR,BY,D	MONTGOMERY	122	55
		CONTRACT NO. 72A59		
	ILLINOIS	FED. AID PROJECT		

MODEL: Default
FILE NAME: S:\2021\21IL057 - PTB 200-32 D6 - Fehr Graham - Various Ph I-III\WO 4 I-55 Bridge Redeck 068-0036\CADD\CADD Sheets\0680036-72A59-001-GPE.dgn
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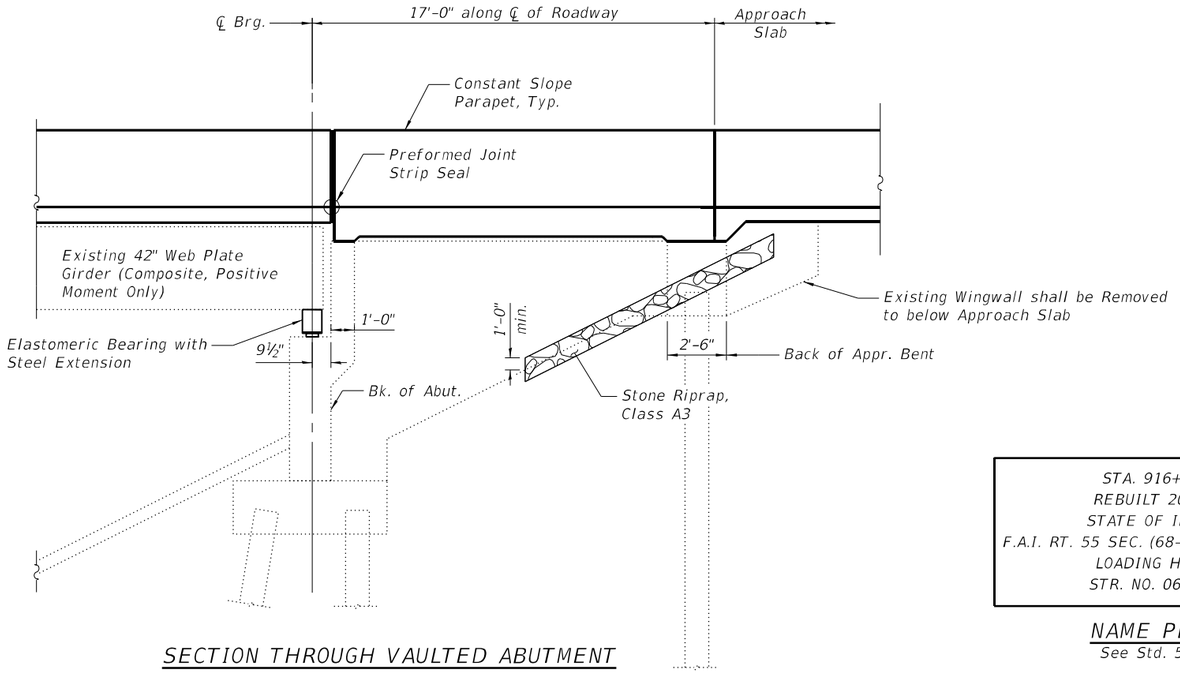
Concrete members have least width less than or equal to 5ft - no thermal control plan required



SECTION THROUGH VAULTED ABUTMENT

(East Vaulted Abutment shown, West Vaulted Abutment similar)

GBSP 21- Cleaning and painting...
GBSP 61- Slipform Parapet
GBSP 78- Bridge Deck Construction
GBSP 83-Hot Dip Galvanizing for Structural Steel
GBSP 89- Preformed Pavement Joint Seal

INDEX OF SHEETS

Y-GBSP 14
Y-SP
Y-SP
Y-GBSP 26
Y-GBSP 25
Y-GBSP 53
Y-GBSP 100

STA. 916+44.59
REBUILT 202_ BY
STATE OF ILLINOIS
F.A.I. RT. 55 SEC. (68-5HB-1,2)BRR,BY,D
LOADING HS20-44
STR. NO. 068-0036

NAME PLATE

See Std. 515001

Place the Proposed Name Plate next to the Existing Name Plate. Cost included with Name Plates.

Matches SOQ

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL	
Stone Riprap, Class A3	Sq. Yd.		16	16	
Concrete Removal	Cu. Yd.		4.6	4.6	
Removal of Existing Concrete Deck No. 2	Each	1		1	
Protective Shield	Sq. Yd.	464		464	
Concrete Structures	Cu. Yd.		29.2	29.2	
Concrete Superstructure	Cu. Yd.	401.1		401.1	
Bridge Deck Grooving	Sq. Yd.	1,112		1,112	
Protective Coat	Sq. Yd.	1,563		1,563	
Concrete Superstructure (Approach Slab)	Cu. Yd.	81.4		81.4	
Furnishing and Erecting Structural Steel	Pound	3,740		3,740	3760 per SOQ
Stud Shear Connectors	Each	480		480	
Reinforcement Bars, Epoxy Coated	Pound	142,490	4,540	147,030	145060 per SOQ
Name Plates	Each	1		1	
Preformed Joint Strip Seal	Foot	58.5		58.5	
Elastomeric Bearing Assembly, Type 1	Each	8		8	
Anchor Bolts, ¾"	Each	16		16	
Anchor Bolts, 1"	Each	8		8	
Concrete Sealer	Sq. Ft.	102		102	
Jack and Remove Existing Bearings	Each	8		8	
Structural Steel Removal	Pound	2,000		2,000	
Structural Steel Repair	Pound	140		140	
Containment and Disposal of Lead Paint Cleaning Residues No. 1	L. Sum	1		1	
Cleaning and Painting Steel Bridge No. 1	L. Sum	1		1	
Structural Repair of Concrete (Depth Equal to or Less Than 5 Inches)	Sq. Ft.		118	118	
Drainage Scuppers, DS-11	Each	4		4	
Bar Terminators	Each	48		48	

GENERAL NOTES

Fasteners shall be ASTM F 3125 Grade A325 Type 1, mechanically galvanized bolts in painted areas. Bolts ¾ in. diameter, holes $^{13}/_{16}$ in. diameter, unless otherwise noted.

Calculated weight of Structural Steel = 140 lbs (M270 Grade 50)
= 3,740 lbs (M270 Grade 36)

All structural steel shall be galvanized. See Special Provision for "Hot Dip Galvanizing for Structural Steel".

No field welding is permitted except as specified in the contract documents.

Reinforcement bars designated (E) shall be epoxy coated.

Prior to pouring the new concrete deck, all heavy or loose rust, loose mill scale, and other loose detrimental foreign material shall be removed from the surfaces in contact with concrete (SSPC - SP3 standards). Tightly adhered paint may remain unless otherwise noted. Removal shall be accomplished by methods that will not damage the steel and the cost will be paid for according to Article 109.04 of the Standard Specifications.

As directed by the Engineer, existing construction accessories welded to the top flange of beams and girders shall be removed. The weld areas shall be ground flush and inspected for cracks using magnetic particle testing (MT) or dye penetrant testing (PT) by qualified personnel approved by the Engineer. Any cracks that cannot be removed by grinding ¼ in. deep shall be identified and reported to the Bureau of Bridges & Structures for further disposition. The cost of removing welded accessories, grinding and inspecting weld areas and grinding cracks will be paid for according to Article 109.04 of the Standard Specifications.

A film forming Concrete Sealer shall be applied to the front face of the proposed vaulted approach span at both abutments.

Plan dimensions and details relative to the existing structure have been taken from existing plans are subject to nominal construction variations. The Contactor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.

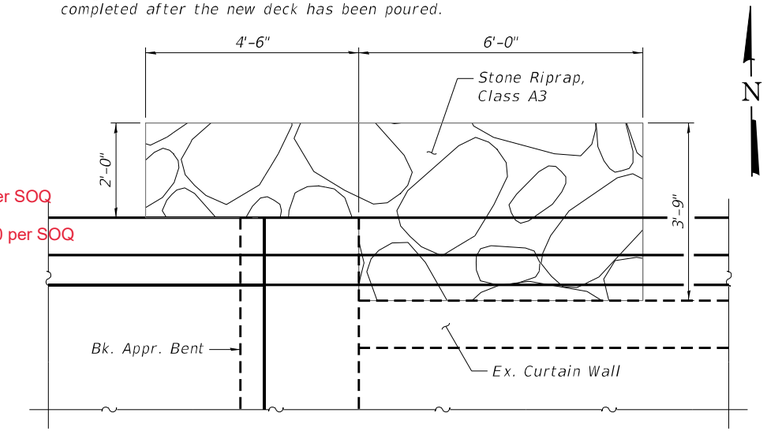
Existing reinforcement shall be cleaned, straightened and incorporated into the new construction. Cost included with Concrete Removal.

The existing structural steel coating contains lead. The Contractor shall take appropriate precautions to address the presence of lead on this project.

Cleaning and painting of the existing structural steel shall be as specified in the Special Provision for "Cleaning and Painting Existing Steel Structures". All beams and other structural steel from the beam end to 10'-0" (measured along the beam) shall be cleaned per near white blast cleaning (SSPC-SP10).

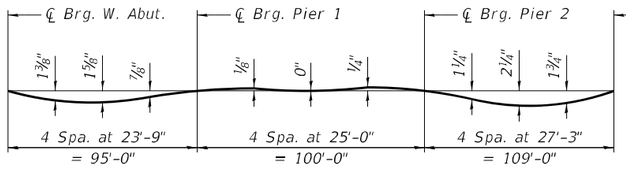
The designated areas to be cleaned and painted and all new galvanized structural steel shall be painted according to the requirements of paint system I-OZ/E/U. The color of the final finish coat for the outside and bottom of the fascia beams shall be interstate green, Munsell No. 7.5G 4/8. All other surfaces shall be gray, Munsell 5B 7/1.

Areas to be cleaned shall be blasted and have the prime coat applied while the bridge deck is removed. Application of the intermediate and topcoats shall be completed after the new deck has been poured.



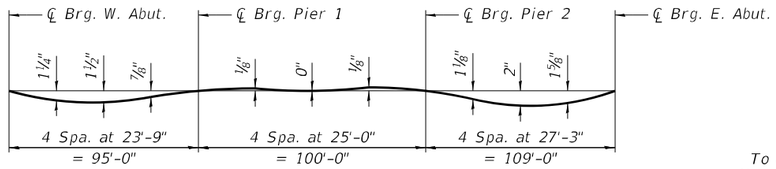
RIPRAP AT APPROACH BENT AND CURTAIN WALL

(Northwest riprap shown, others similar)



INTERIOR GIRDER DEAD LOAD DEFLECTION DIAGRAM

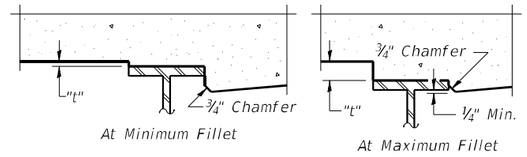
(Includes weight of concrete only.)



EXTERIOR GIRDER DEAD LOAD DEFLECTION DIAGRAM

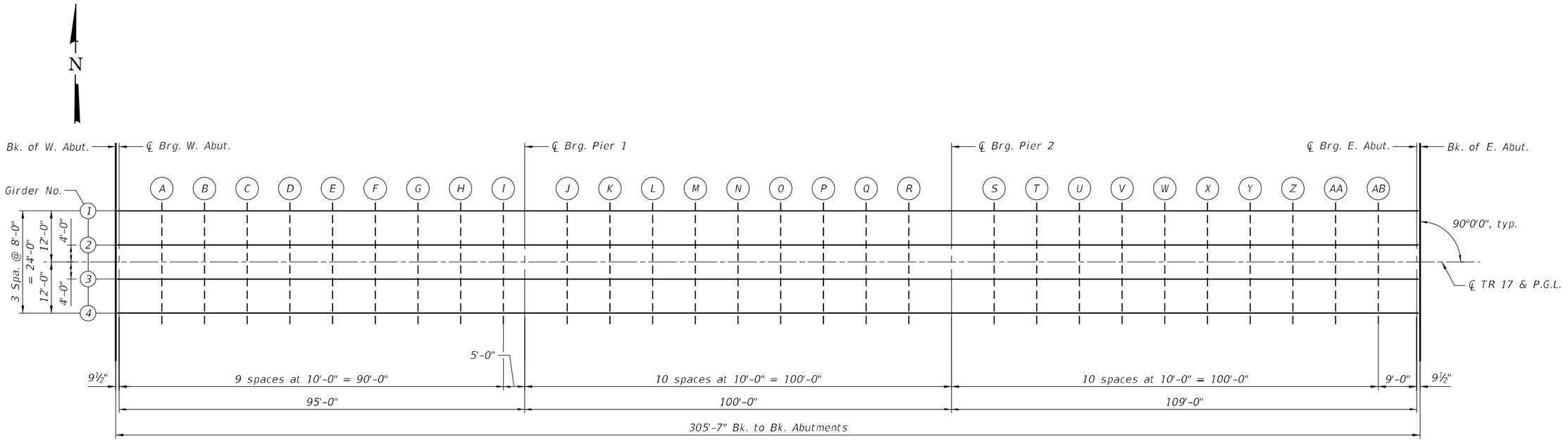
(Includes weight of concrete only.)

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 sheets 4 and 5 of 29.



To determine "t": After all structural steel has 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 sheets 4 and 5 of 29, minus slab thickness, equals the fillet heights "t" above top flange of beams.

FILLET HEIGHTS



PLAN

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QUIGG ENGINEERING INC

USER NAME = Structures2	DESIGNED - ZLD	REVISED -	
0680036-72A59-003-Top of Slab Elevations.dgn	CHECKED - RPW	REVISED -	
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PLOT DATE =	CHECKED - MDC	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TOP OF SLAB ELEVATIONS
STRUCTURE NO. 068-0036
SHEET 3 OF 29 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(68-5HB-1,2)BRR,BY,D	MONTGOMERY	122	57
		CONTRACT NO. 72A59		
	ILLINOIS	FED. AID PROJECT		

GIRDER 1

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted for Dead Load Deflections
Bk. W. Abut.	48+37.21	-12.00	672.70	672.70
℄ Brg. W. Abut.	48+38.00	-12.00	672.71	672.71
A	48+48.00	-12.00	672.82	672.87
B	48+58.00	-12.00	672.94	673.02
C	48+68.00	-12.00	673.04	673.16
D	48+78.00	-12.00	673.14	673.27
E	48+88.00	-12.00	673.23	673.35
F	48+98.00	-12.00	673.31	673.42
G	49+08.00	-12.00	673.39	673.46
H	49+18.00	-12.00	673.46	673.50
I	49+28.00	-12.00	673.52	673.53
℄ Brg. Pier 1	49+33.00	-12.00	673.55	673.55
J	49+43.00	-12.00	673.60	673.59
K	49+53.00	-12.00	673.65	673.64
L	49+63.00	-12.00	673.69	673.68
M	49+73.00	-12.00	673.72	673.72
N	49+83.00	-12.00	673.74	673.74
O	49+93.00	-12.00	673.76	673.76
P	50+03.00	-12.00	673.77	673.76
Q	50+13.00	-12.00	673.77	673.76
R	50+23.00	-12.00	673.77	673.76
℄ Brg. Pier 2	50+33.00	-12.00	673.76	673.76
S	50+43.00	-12.00	673.74	673.77
T	50+53.00	-12.00	673.72	673.78
U	50+63.00	-12.00	673.69	673.79
V	50+73.00	-12.00	673.65	673.78
W	50+83.00	-12.00	673.60	673.76
X	50+93.00	-12.00	673.55	673.72
Y	51+03.00	-12.00	673.49	673.65
Z	51+13.00	-12.00	673.42	673.56
AA	51+23.00	-12.00	673.35	673.45
AB	51+33.00	-12.00	673.27	673.32
℄ Brg. E. Abut.	51+42.00	-12.00	673.19	673.19
Bk. E. Abut.	51+42.79	-12.00	673.18	673.18

GIRDER 2

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted for Dead Load Deflections
Bk. W. Abut.	48+37.21	-4.00	672.83	672.83
℄ Brg. W. Abut.	48+38.00	-4.00	672.84	672.84
A	48+48.00	-4.00	672.95	673.01
B	48+58.00	-4.00	673.07	673.16
C	48+68.00	-4.00	673.17	673.30
D	48+78.00	-4.00	673.27	673.41
E	48+88.00	-4.00	673.36	673.50
F	48+98.00	-4.00	673.44	673.56
G	49+08.00	-4.00	673.52	673.60
H	49+18.00	-4.00	673.59	673.63
I	49+28.00	-4.00	673.65	673.66
℄ Brg. Pier 1	49+33.00	-4.00	673.68	673.68
J	49+43.00	-4.00	673.73	673.72
K	49+53.00	-4.00	673.78	673.77
L	49+63.00	-4.00	673.82	673.81
M	49+73.00	-4.00	673.85	673.85
N	49+83.00	-4.00	673.87	673.87
O	49+93.00	-4.00	673.89	673.89
P	50+03.00	-4.00	673.90	673.89
Q	50+13.00	-4.00	673.90	673.88
R	50+23.00	-4.00	673.90	673.88
℄ Brg. Pier 2	50+33.00	-4.00	673.89	673.89
S	50+43.00	-4.00	673.87	673.90
T	50+53.00	-4.00	673.85	673.92
U	50+63.00	-4.00	673.82	673.93
V	50+73.00	-4.00	673.78	673.93
W	50+83.00	-4.00	673.73	673.91
X	50+93.00	-4.00	673.68	673.87
Y	51+03.00	-4.00	673.62	673.80
Z	51+13.00	-4.00	673.55	673.71
AA	51+23.00	-4.00	673.48	673.59
AB	51+33.00	-4.00	673.40	673.45
℄ Brg. E. Abut.	51+42.00	-4.00	673.32	673.32
Bk. E. Abut.	51+42.79	-4.00	673.31	673.31

℄ TR 17 AND P.G.L.

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted for Dead Load Deflections
Bk. W. Abut.	48+37.21	0.00	672.89	672.89
℄ Brg. W. Abut.	48+38.00	0.00	672.90	672.90
A	48+48.00	0.00	673.01	673.07
B	48+58.00	0.00	673.13	673.22
C	48+68.00	0.00	673.23	673.36
D	48+78.00	0.00	673.33	673.47
E	48+88.00	0.00	673.42	673.56
F	48+98.00	0.00	673.50	673.62
G	49+08.00	0.00	673.58	673.66
H	49+18.00	0.00	673.65	673.69
I	49+28.00	0.00	673.71	673.72
℄ Brg. Pier 1	49+33.00	0.00	673.74	673.74
J	49+43.00	0.00	673.79	673.78
K	49+53.00	0.00	673.84	673.83
L	49+63.00	0.00	673.88	673.87
M	49+73.00	0.00	673.91	673.91
N	49+83.00	0.00	673.93	673.93
O	49+93.00	0.00	673.95	673.95
P	50+03.00	0.00	673.96	673.95
Q	50+13.00	0.00	673.96	673.94
R	50+23.00	0.00	673.96	673.94
℄ Brg. Pier 2	50+33.00	0.00	673.95	673.95
S	50+43.00	0.00	673.93	673.96
T	50+53.00	0.00	673.91	673.98
U	50+63.00	0.00	673.88	673.99
V	50+73.00	0.00	673.84	673.99
W	50+83.00	0.00	673.79	673.97
X	50+93.00	0.00	673.74	673.93
Y	51+03.00	0.00	673.68	673.86
Z	51+13.00	0.00	673.61	673.77
AA	51+23.00	0.00	673.54	673.65
AB	51+33.00	0.00	673.46	673.51
℄ Brg. E. Abut.	51+42.00	0.00	673.38	673.38
Bk. E. Abut.	51+42.79	0.00	673.37	673.37

QUIGG ENGINEERING INC

USER NAME = Structures2	DESIGNED - ZLD	REVISED -	
0680036-72A59-004-Top of Slab Elevations.dgn	CHECKED - RPW	REVISED -	
PLOT SCALE = 0:2.0000 ':" / in.	DRAWN - JDC	REVISED -	
PLOT DATE =	CHECKED - MDC	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TOP OF SLAB ELEVATIONS
STRUCTURE NO. 068-0036
SHEET 4 OF 29 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(68-5HB-1,2)BRR,BY,D	MONTGOMERY	122	58
		CONTRACT NO. 72A59		
	ILLINOIS	FED. AID PROJECT		

GIRDER 3

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted for Dead Load Deflections
Bk. W. Abut.	48+37.21	4.00	672.83	672.83
℄ Brg. W. Abut.	48+38.00	4.00	672.84	672.84
A	48+48.00	4.00	672.95	673.01
B	48+58.00	4.00	673.07	673.16
C	48+68.00	4.00	673.17	673.30
D	48+78.00	4.00	673.27	673.41
E	48+88.00	4.00	673.36	673.50
F	48+98.00	4.00	673.44	673.56
G	49+08.00	4.00	673.52	673.60
H	49+18.00	4.00	673.59	673.63
I	49+28.00	4.00	673.65	673.66
℄ Brg. Pier 1	49+33.00	4.00	673.68	673.68
J	49+43.00	4.00	673.73	673.72
K	49+53.00	4.00	673.78	673.77
L	49+63.00	4.00	673.82	673.81
M	49+73.00	4.00	673.85	673.85
N	49+83.00	4.00	673.87	673.87
O	49+93.00	4.00	673.89	673.89
P	50+03.00	4.00	673.90	673.89
Q	50+13.00	4.00	673.90	673.88
R	50+23.00	4.00	673.90	673.88
℄ Brg. Pier 2	50+33.00	4.00	673.89	673.89
S	50+43.00	4.00	673.87	673.90
T	50+53.00	4.00	673.85	673.92
U	50+63.00	4.00	673.82	673.93
V	50+73.00	4.00	673.78	673.93
W	50+83.00	4.00	673.73	673.91
X	50+93.00	4.00	673.68	673.87
Y	51+03.00	4.00	673.62	673.80
Z	51+13.00	4.00	673.55	673.71
AA	51+23.00	4.00	673.48	673.59
AB	51+33.00	4.00	673.40	673.45
℄ Brg. E. Abut.	51+42.00	4.00	673.32	673.32
Bk. E. Abut.	51+42.79	4.00	673.31	673.31

GIRDER 4

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted for Dead Load Deflections
Bk. W. Abut.	48+37.21	12.00	672.70	672.70
℄ Brg. W. Abut.	48+38.00	12.00	672.71	672.71
A	48+48.00	12.00	672.82	672.87
B	48+58.00	12.00	672.94	673.02
C	48+68.00	12.00	673.04	673.16
D	48+78.00	12.00	673.14	673.27
E	48+88.00	12.00	673.23	673.35
F	48+98.00	12.00	673.31	673.42
G	49+08.00	12.00	673.39	673.46
H	49+18.00	12.00	673.46	673.50
I	49+28.00	12.00	673.52	673.53
℄ Brg. Pier 1	49+33.00	12.00	673.55	673.55
J	49+43.00	12.00	673.60	673.59
K	49+53.00	12.00	673.65	673.64
L	49+63.00	12.00	673.69	673.68
M	49+73.00	12.00	673.72	673.72
N	49+83.00	12.00	673.74	673.74
O	49+93.00	12.00	673.76	673.76
P	50+03.00	12.00	673.77	673.76
Q	50+13.00	12.00	673.77	673.76
R	50+23.00	12.00	673.77	673.76
℄ Brg. Pier 2	50+33.00	12.00	673.76	673.76
S	50+43.00	12.00	673.74	673.77
T	50+53.00	12.00	673.72	673.78
U	50+63.00	12.00	673.69	673.79
V	50+73.00	12.00	673.65	673.78
W	50+83.00	12.00	673.60	673.76
X	50+93.00	12.00	673.55	673.72
Y	51+03.00	12.00	673.49	673.65
Z	51+13.00	12.00	673.42	673.56
AA	51+23.00	12.00	673.35	673.45
AB	51+33.00	12.00	673.27	673.32
℄ Brg. E. Abut.	51+42.00	12.00	673.19	673.19
Bk. E. Abut.	51+42.79	12.00	673.18	673.18

QUIGG ENGINEERING INC

USER NAME = Structures2	DESIGNED - ZLD	REVISED -	
0680036-72A59-005-Top of Slab Elevations.dgn	CHECKED - RPW	REVISED -	
PLOT SCALE = 0:2.0000 ':" / in.	DRAWN - JDC	REVISED -	
PLOT DATE =	CHECKED - MDC	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TOP OF SLAB ELEVATIONS
STRUCTURE NO. 068-0036
SHEET 5 OF 29 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(68-5HB-1,2)BRR,BY,D	MONTGOMERY	122	59
		CONTRACT NO. 72A59		
	ILLINOIS	FED. AID PROJECT		

NORTH EDGE OF SHOULDER

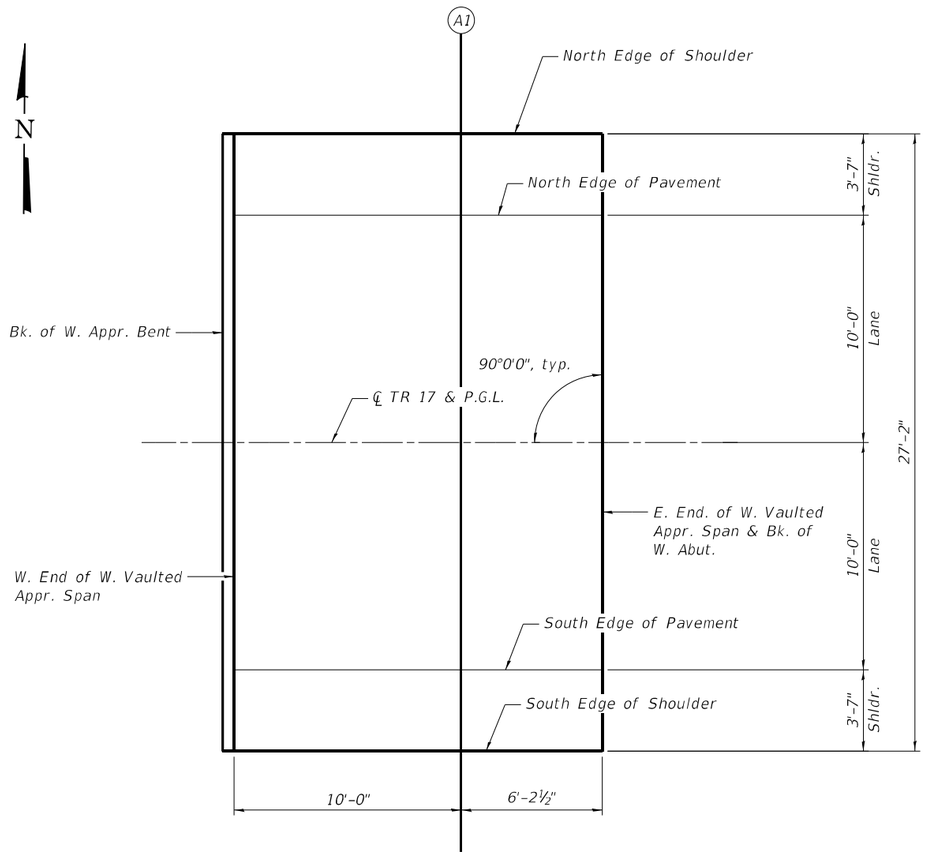
Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted for Dead Load Deflections
Bk. of W. Appr. Bent	48+20.50	-13.58	672.45	672.45
W. End of W. Vaulted Approach Span	48+21.00	-13.58	672.46	672.46
A1	48+31.00	-13.58	672.59	672.59
E. End of W. Vaulted Approach Span & Bk. of W. Abut.	48+37.21	-13.58	672.67	672.67

NORTH EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted for Dead Load Deflections
Bk. of W. Appr. Bent	48+20.50	-10.00	672.52	672.52
W. End of W. Vaulted Approach Span	48+21.00	-10.00	672.53	672.53
A1	48+31.00	-10.00	672.66	672.66
E. End of W. Vaulted Approach Span & Bk. of W. Abut.	48+37.21	-10.00	672.74	672.74

℄ TR 17 & P.G.L.

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted for Dead Load Deflections
Bk. of W. Appr. Bent	48+20.50	0.00	672.67	672.67
W. End of W. Vaulted Approach Span	48+21.00	0.00	672.68	672.68
A1	48+31.00	0.00	672.81	672.81
E. End of W. Vaulted Approach Span & Bk. of W. Abut.	48+37.21	0.00	672.89	672.89



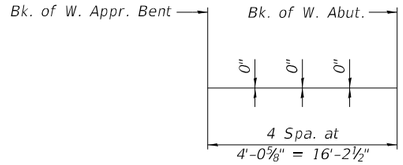
PLAN

SOUTH EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted for Dead Load Deflections
Bk. of W. Appr. Bent	48+20.50	10.00	672.52	672.52
W. End of W. Vaulted Approach Span	48+21.00	10.00	672.53	672.53
A1	48+31.00	10.00	672.66	672.66
E. End of W. Vaulted Approach Span & Bk. of W. Abut.	48+37.21	10.00	672.74	672.74

SOUTH EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted for Dead Load Deflections
Bk. of W. Appr. Bent	48+20.50	13.58	672.45	672.45
W. End of W. Vaulted Approach Span	48+21.00	13.58	672.46	672.46
A1	48+31.00	13.58	672.59	672.59
E. End of W. Vaulted Approach Span & Bk. of W. Abut.	48+37.21	13.58	672.67	672.67



DEAD LOAD DEFLECTION DIAGRAM

(Includes weight of concrete only.)

Note:
The above deflections are not to be used in the field if the engineer is working from the grade elevations adjusted for dead load deflections and grinding as shown on this sheet.

NORTH EDGE OF SHOULDER

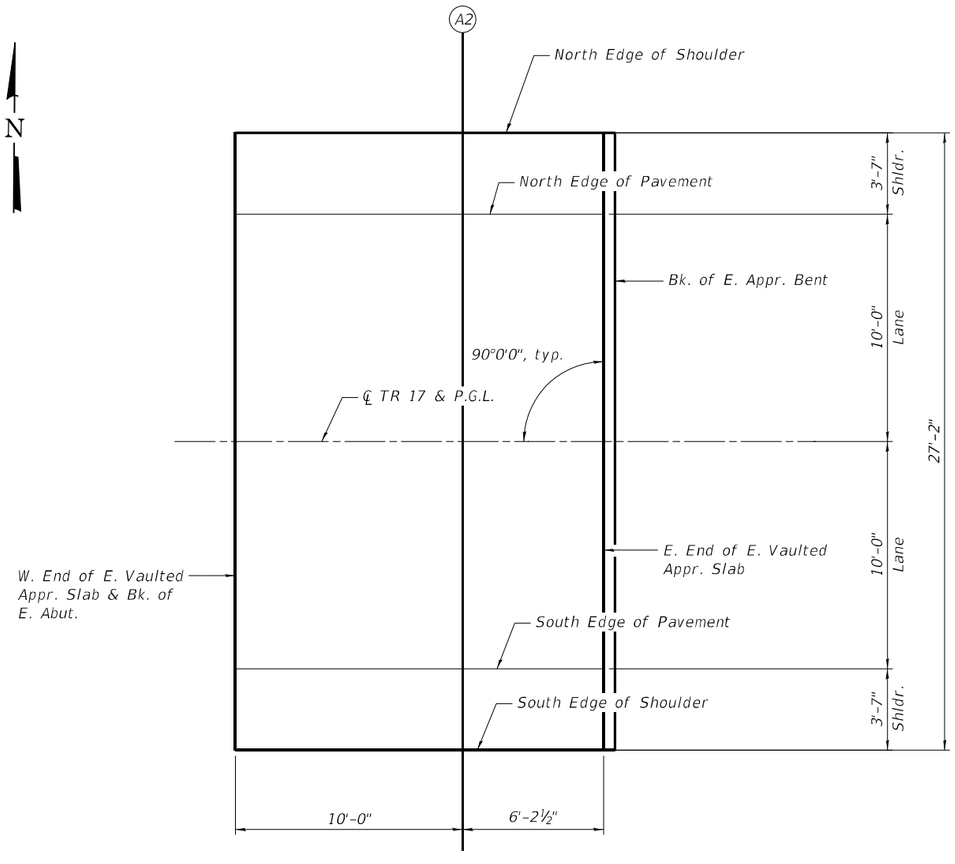
Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted for Dead Load Deflections
W. End of E. Vaulted Approach Span & Bk. of E. Abut.	51+42.79	-13.58	673.15	673.15
A2	51+52.79	-13.58	673.06	673.06
E. End of E. Vaulted Approach Span	51+59.00	-13.58	672.99	672.99
Bk. of E. Appr. Bent	51+59.50	-13.58	672.99	672.99

NORTH EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted for Dead Load Deflections
W. End of E. Vaulted Approach Span & Bk. of E. Abut.	51+42.79	-10.00	673.22	673.22
A2	51+52.79	-10.00	673.13	673.13
E. End of E. Vaulted Approach Span	51+59.00	-10.00	673.07	673.07
Bk. of E. Appr. Bent	51+59.50	-10.00	673.06	673.06

℄ TR 17 & P.G.L.

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted for Dead Load Deflections
W. End of E. Vaulted Approach Span & Bk. of E. Abut.	51+42.79	0.00	673.37	673.37
A2	51+52.79	0.00	673.28	673.28
E. End of E. Vaulted Approach Span	51+59.00	0.00	673.22	673.22
Bk. of E. Appr. Bent	51+59.50	0.00	673.21	673.21



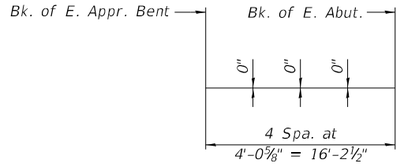
PLAN

SOUTH EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted for Dead Load Deflections
W. End of E. Vaulted Approach Span & Bk. of E. Abut.	51+42.79	10.00	673.22	673.22
A2	51+52.79	10.00	673.13	673.13
E. End of E. Vaulted Approach Span	51+59.00	10.00	673.07	673.07
Bk. of E. Appr. Bent	51+59.50	10.00	673.06	673.06

SOUTH EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted for Dead Load Deflections
W. End of E. Vaulted Approach Span & Bk. of E. Abut.	51+42.79	13.58	673.15	673.15
A2	51+52.79	13.58	673.06	673.06
E. End of E. Vaulted Approach Span	51+59.00	13.58	672.99	672.99
Bk. of E. Appr. Bent	51+59.50	13.58	672.99	672.99



DEAD LOAD DEFLECTION DIAGRAM

(Includes weight of concrete only.)

Note:
The above deflections are not to be used in the field if the engineer is working from the grade elevations adjusted for dead load deflections and grinding as shown on this sheet.

QUIGG ENGINEERING INC

USER NAME = Structures2	DESIGNED - ZLD	REVISED -	
0680036-72A59-007-Top of Vaulted Appr. Slab Elevations.dgn	CHECKED - RPW	REVISED -	
PLOT SCALE = 6:8.0000 ':" / in.	DRAWN - JDC	REVISED -	
PLOT DATE =	CHECKED - MDC	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TOP OF EAST VAULTED APPROACH SPAN ELEVATIONS
STRUCTURE NO. 068-0036
SHEET 7 OF 29 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(68-5HB-1,2)BRR,BY,D	MONTGOMERY	122	61
		CONTRACT NO. 72A59		
	ILLINOIS	FED. AID PROJECT		

NORTH EDGE OF SHOULDER

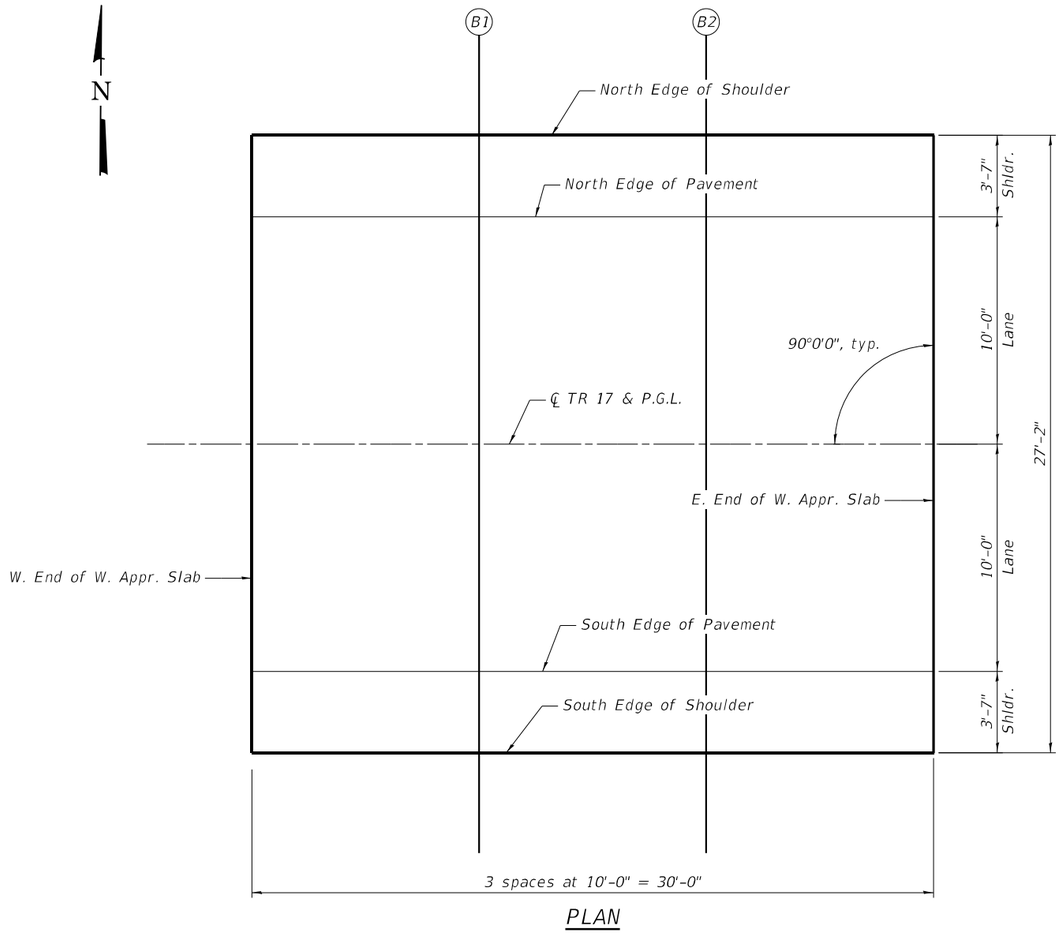
Location	Station	Offset	Theoretical Grade Elevations
W. End of W. Approach	47+91.00	-13.58	672.02
B1	48+01.00	-13.58	672.18
B2	48+11.00	-13.58	672.32
E. End of W. Approach	48+21.00	-13.58	672.46

NORTH EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
W. End of W. Approach	47+91.00	-10.00	672.10
B1	48+01.00	-10.00	672.25
B2	48+11.00	-10.00	672.39
E. End of W. Approach	48+21.00	-10.00	672.53

℄ TR 17 & P.G.L.

Location	Station	Offset	Theoretical Grade Elevations
W. End of W. Approach	47+91.00	0.00	672.25
B1	48+01.00	0.00	672.40
B2	48+11.00	0.00	672.54
E. End of W. Approach	48+21.00	0.00	672.68



PLAN

SOUTH EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
W. End of W. Approach	47+91.00	10.00	672.10
B1	48+01.00	10.00	672.25
B2	48+11.00	10.00	672.39
E. End of W. Approach	48+21.00	10.00	672.53

SOUTH EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations
W. End of W. Approach	47+91.00	13.58	672.02
B1	48+01.00	13.58	672.18
B2	48+11.00	13.58	672.32
E. End of W. Approach	48+21.00	13.58	672.46

QUIGG ENGINEERING INC

USER NAME = Structures2	DESIGNED - ZLD	REVISED -	
0680036-72A59-008-Top of Approach Slab Elevations.dgn	CHECKED - RPW	REVISED -	
PLOT SCALE = 6:8.0000 ':' / in.	DRAWN - JDC	REVISED -	
PLOT DATE =	CHECKED - MDC	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TOP OF WEST APPROACH SLAB ELEVATIONS
STRUCTURE NO. 068-0036
SHEET 8 OF 29 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(68-5HB-1,2)BRR,BY,D	MONTGOMERY	122	62
		CONTRACT NO. 72A59		
	ILLINOIS	FED. AID PROJECT		

NORTH EDGE OF SHOULDER

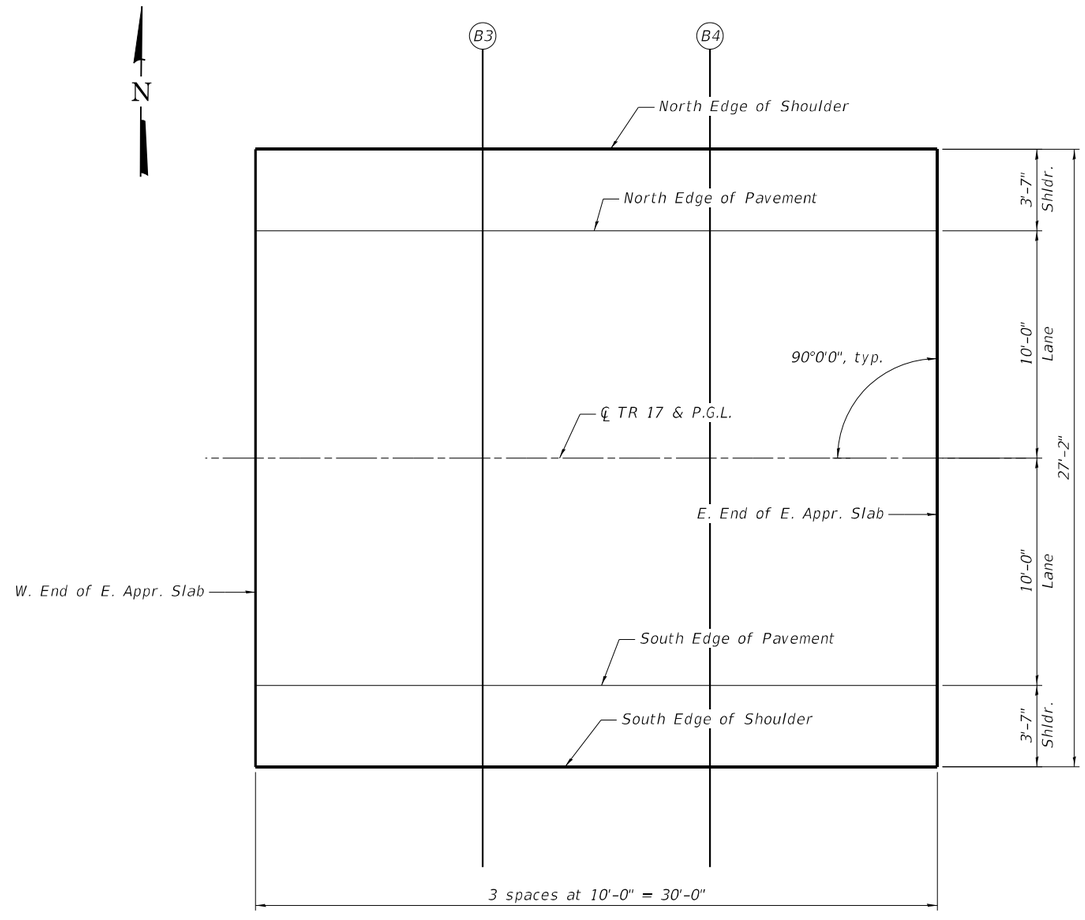
Location	Station	Offset	Theoretical Grade Elevations
W. End of E. Approach	51+59.00	-13.58	672.99
B3	51+69.00	-13.58	672.89
B4	51+79.00	-13.58	672.78
E. End of E. Approach	51+89.00	-13.58	672.66

NORTH EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
W. End of E. Approach	51+59.00	-10.00	673.07
B3	51+69.00	-10.00	672.96
B4	51+79.00	-10.00	672.85
E. End of E. Approach	51+89.00	-10.00	672.73

℄ TR 17 & P.G.L.

Location	Station	Offset	Theoretical Grade Elevations
W. End of E. Approach	51+59.00	0.00	673.22
B3	51+69.00	0.00	673.11
B4	51+79.00	0.00	673.00
E. End of E. Approach	51+89.00	0.00	672.88



PLAN

SOUTH EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
W. End of E. Approach	51+59.00	10.00	673.07
B3	51+69.00	10.00	672.96
B4	51+79.00	10.00	672.85
E. End of E. Approach	51+89.00	10.00	672.73

SOUTH EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations
W. End of E. Approach	51+59.00	13.58	672.99
B3	51+69.00	13.58	672.89
B4	51+79.00	13.58	672.78
E. End of E. Approach	51+89.00	13.58	672.66

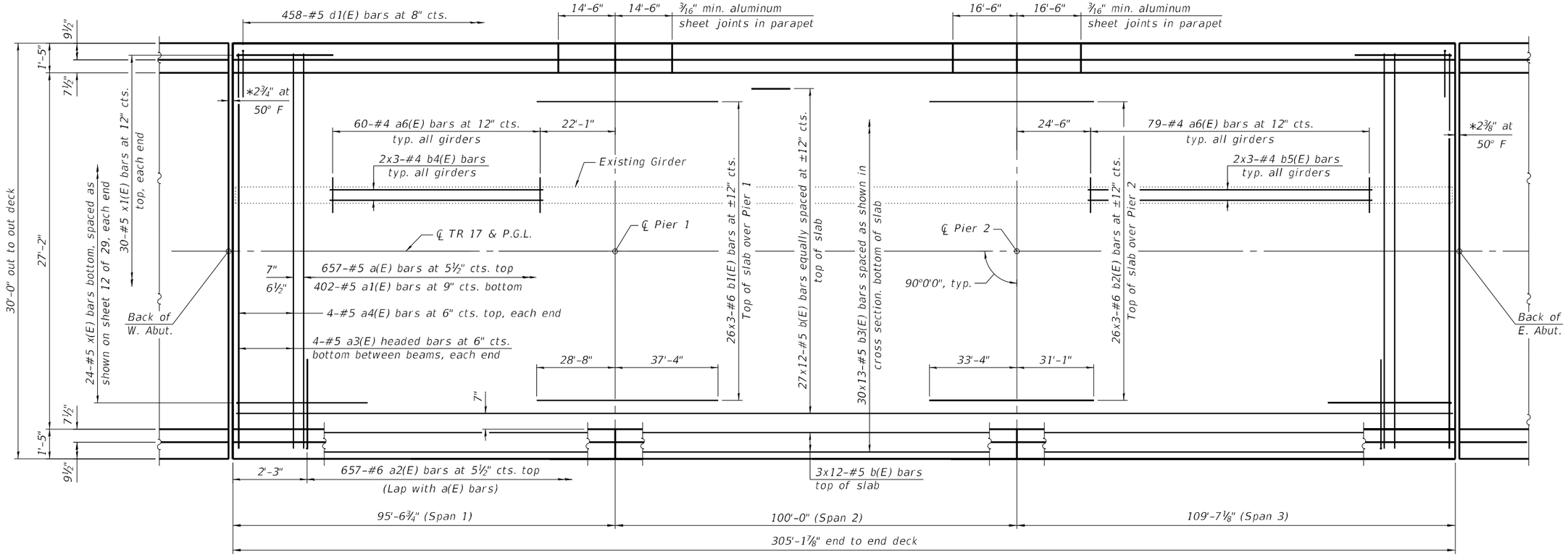
QUIGG ENGINEERING INC

USER NAME = Structures2	DESIGNED - ZLD	REVISED -	
0680036-72A59-009-Top of Approach Slab Elevations.dgn	CHECKED - RPW	REVISED -	
PLOT SCALE = 6:8.0000 ':" / in.	DRAWN - JDC	REVISED -	
PLOT DATE =	CHECKED - MDC	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TOP OF EAST APPROACH SLAB ELEVATIONS
STRUCTURE NO. 068-0036
SHEET 9 OF 29 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(68-5HB-1,2)BRR,BY,D	MONTGOMERY	122	63
		CONTRACT NO. 72A59		
	ILLINOIS	FED. AID PROJECT		



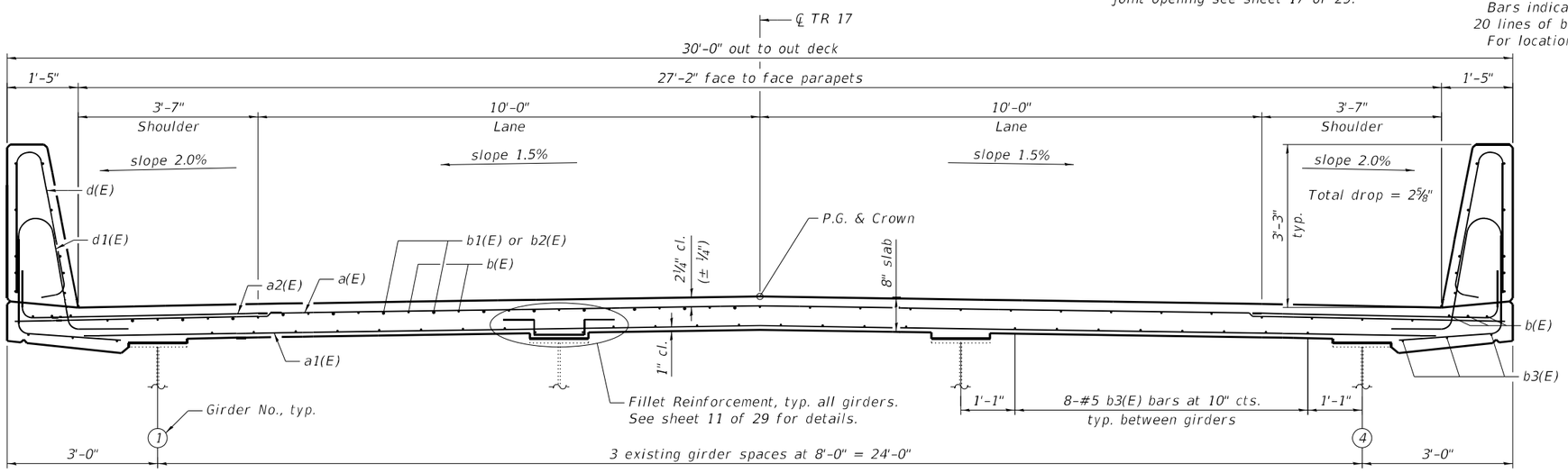
PLAN

MINIMUM BAR LAP

#4 bar = 2'-5"
#5 bar = 3'-6"
#6 bar = 4'-5"

* Dimension showing concrete opening. For joint opening see sheet 17 of 29.

Notes:
See sheet 11 of 29 for superstructure details and Bill of Material.
Bars indicated thus 20x3-#5 etc. indicates 20 lines of bars with 3 lengths per line.
For location of scuppers, see sheet 1 of 29.



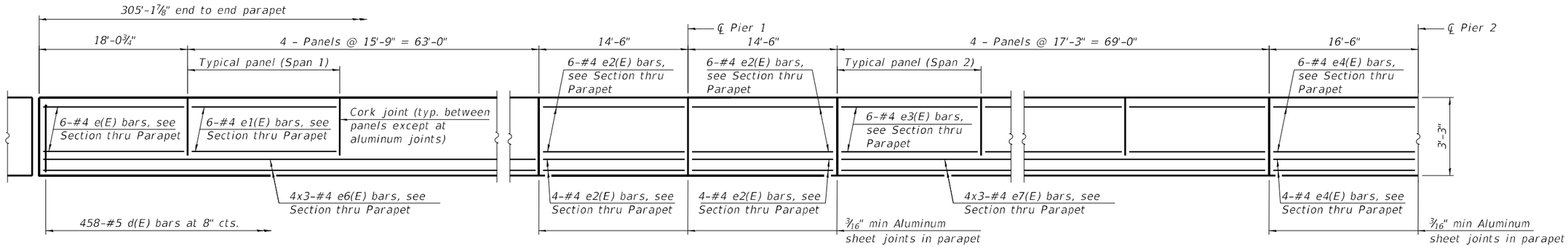
NEAR PIER NEAR MIDSPAN

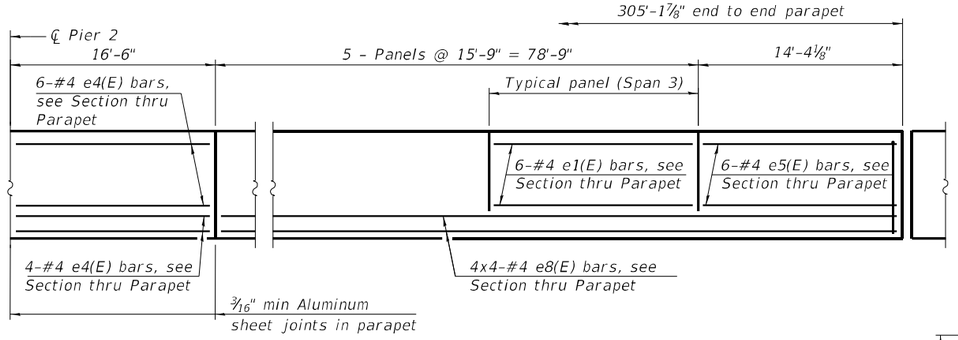
CROSS SECTION

(Looking East)

QUIGG ENGINEERING INC	USER NAME = Structures2	DESIGNED - ZLD	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUPERSTRUCTURE STRUCTURE NO. 068-0036	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	0680036-72A59-010-Superstructure.dgn	CHECKED - RPW	REVISED -			55	(68-5HB-1,2)BRR,BY,D	MONTGOMERY	122	64
	PLOT SCALE = 0:2.0000 ':' / in.	DRAWN - JDC	REVISED -					CONTRACT NO. 72A59		
	PLOT DATE =	CHECKED - MDC	REVISED -		SHEET 10 OF 29 SHEETS			ILLINOIS FED. AID PROJECT		

MODEL: Default
FILE NAME: S:\2021\21IL057 - PTB 200-32 D6 - Fehr Graham - Various Ph I-Hwo 4 I-55 Bridge Redeck 068-0036\CADD\CADD Sheets\0680036-72A59-010-Superstructure.dgn
10/8/2024 3:08:22 PM



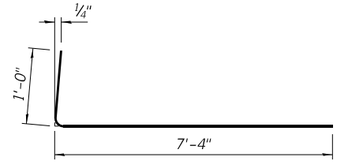


Notes:

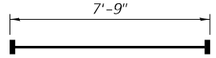
The 3/16" minimum aluminum sheet shall be ASTM B 209 alloy 3003-H14 and coated with 5 mils of either bitumen paint or epoxy paint to minimize reaction with wet concrete. Cost included with Concrete Superstructure.

The Polyurethane Sealant shall be according to Article 1050.04 of the Std. Spec. and the color shall be gray.

Bar terminators paid for separately. See Total Bill of Material.



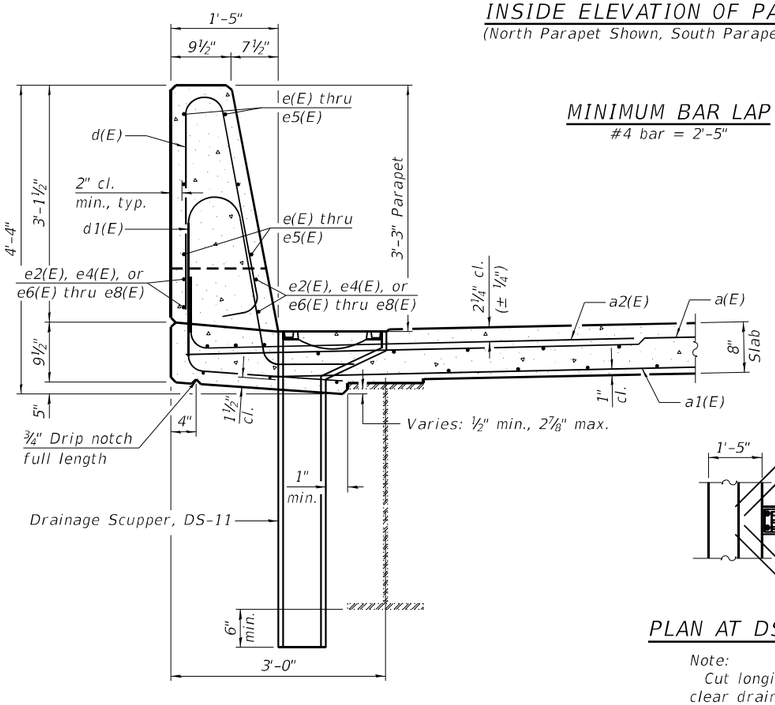
BAR a2(E)



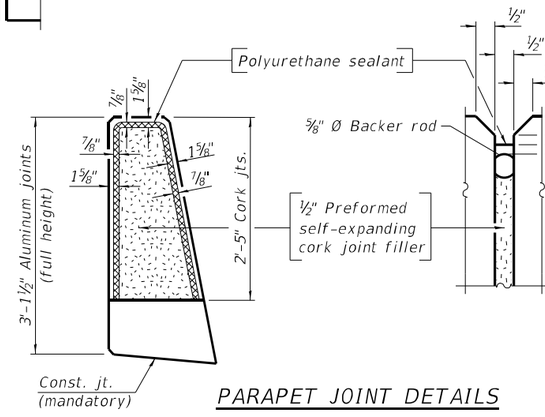
BAR a3(E)
(Headed, 48-#5 Bar terminators)

INSIDE ELEVATION OF PARAPET
(North Parapet Shown, South Parapet Similar)

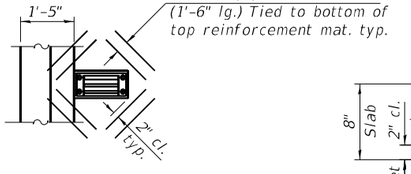
MINIMUM BAR LAP
#4 bar = 2'-5"



SECTION THRU PARAPET AT DS-11 SCUPPER

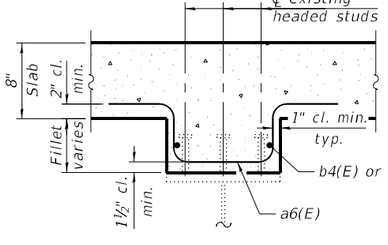


PARAPET JOINT DETAILS

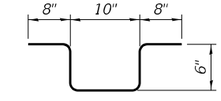


PLAN AT DS-11 SCUPPER

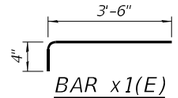
Note:
Cut longitudinal reinforcement to clear drainage scuppers.



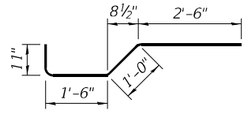
DEEP FILLET REINFORCEMENT



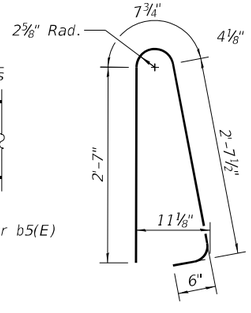
BAR a6(E)



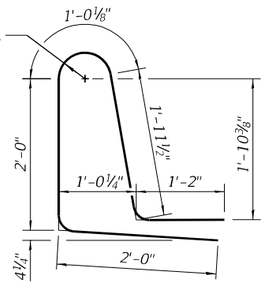
BAR x1(E)



BAR x(E)



BAR d(E)

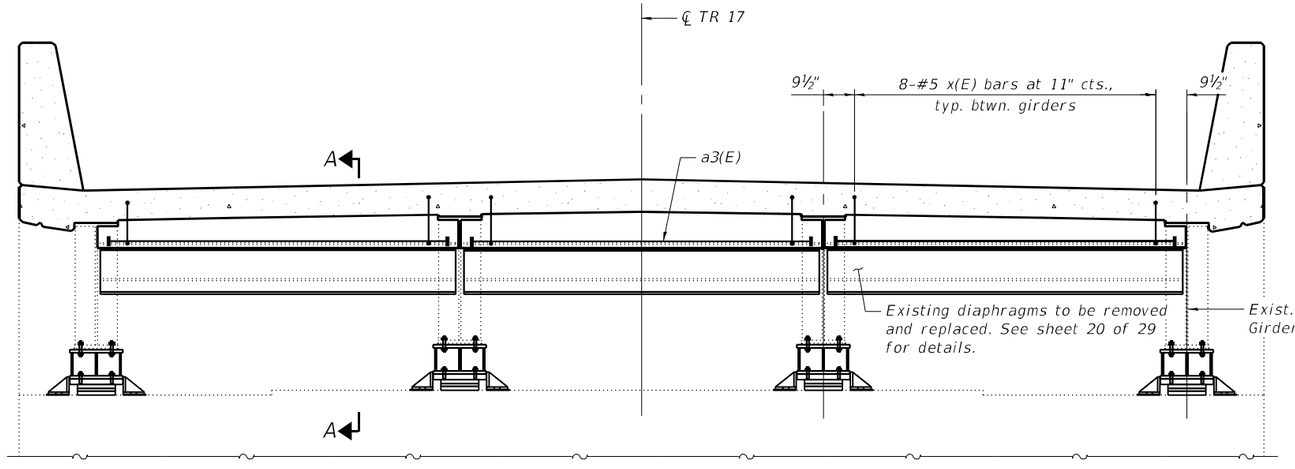


BAR d1(E)

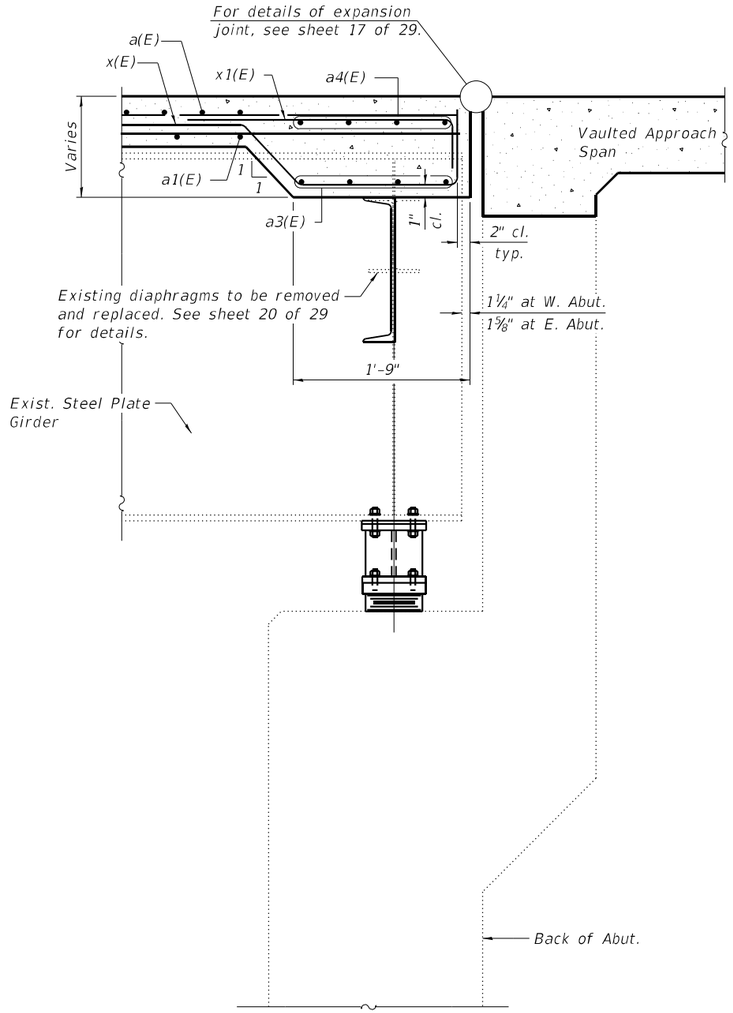
SUPERSTRUCTURE BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a(E)	657	#5	29'-8"	
a1(E)	402	#5	27'-8"	
a2(E)	1,314	#6	8'-4"	
a3(E)	24	#5	7'-9"	
a4(E)	8	#5	29'-8"	
a5(E)	32	#5	1'-6"	
a6(E)	556	#4	3'-2"	
b(E)	396	#5	28'-9"	
b1(E)	78	#6	25'-1"	
b2(E)	78	#6	24'-6"	
b3(E)	390	#5	26'-10"	
b4(E)	24	#4	21'-5"	
b5(E)	24	#4	27'-9"	
d(E)	916	#5	6'-5"	
d1(E)	916	#5	8'-2"	
e(E)	12	#4	17'-8"	
e1(E)	108	#4	15'-5"	
e2(E)	40	#4	14'-2"	
e3(E)	48	#4	16'-11"	
e4(E)	40	#4	16'-2"	
e5(E)	12	#4	14'-0"	
e6(E)	24	#4	28'-9"	
e7(E)	24	#4	24'-9"	
e8(E)	32	#4	25'-2"	
x(E)	48	#5	5'-11"	
x1(E)	60	#5	3'-10"	
Concrete Superstructure			Cu. Yd.	340.1
Reinforcement Bars, Epoxy Coated			Pound	98,020

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



DIAPHRAGM AT ABUTMENT



SECTION A-A

Note:
See sheet 11 of 29 for superstructure details and Bill of Material.

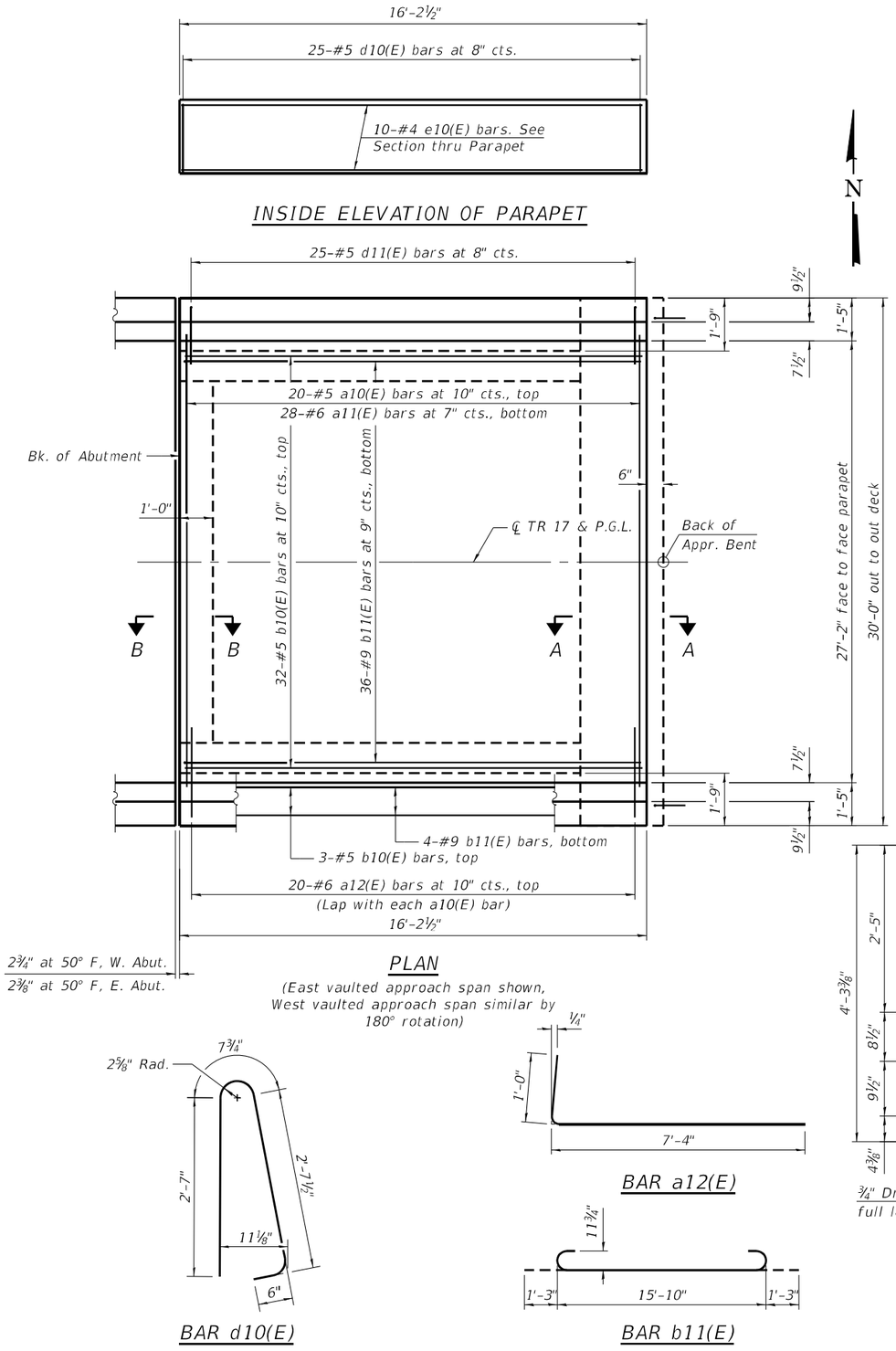
QUIGG ENGINEERING INC

USER NAME = Structures2	DESIGNED - ZLD	REVISED -	
0680036-72A59-012-Diaphragm Details.dgn	CHECKED - RPW	REVISED -	
PLOT SCALE = 0:2.0000 ':" / in.	DRAWN - JDC	REVISED -	
PLOT DATE =	CHECKED - MDC	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DIAPHRAGM DETAILS
STRUCTURE NO. 068-0036
SHEET 12 OF 29 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(68-5HB-1,2)BRR,BY,D	MONTGOMERY	122	66
		CONTRACT NO. 72A59		
	ILLINOIS	FED. AID PROJECT		



TWO APPROACH SLABS
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a10(E)	40	#5	29'-8"	
a11(E)	56	#6	27'-0"	
a12(E)	80	#6	8'-4"	
b10(E)	76	#5	15'-10"	
b11(E)	88	#9	18'-4"	
d10(E)	100	#5	6'-5"	
d11(E)	100	#5	9'-7"	
e10(E)	40	#4	15'-10"	
h10(E)	8	#4	13'-10"	
Concrete Superstructure			Cu. Yd.	53.2
Reinforcement Bars, Epoxy Coated			Pound	13,420

MODEL: Default
FILE NAME: S:\2021\21IL057 - PTB 200-32 D6 - Fehr Graham - Various Ph I-III\WO 4 I-55 Bridge Redeck 068-0036\CADD\CADD Sheets\0680036-72A59-013-Vaulted Approach Span Details.dgn
10/8/2024 3:08:26 PM

QUIGG ENGINEERING INC

USER NAME = Structures2	DESIGNED - ZLD	REVISED -	
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PLOT DATE =	CHECKED - MDC	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

VAULTED APPROACH SPAN DETAILS
STRUCTURE NO. 068-0036
SHEET 13 OF 29 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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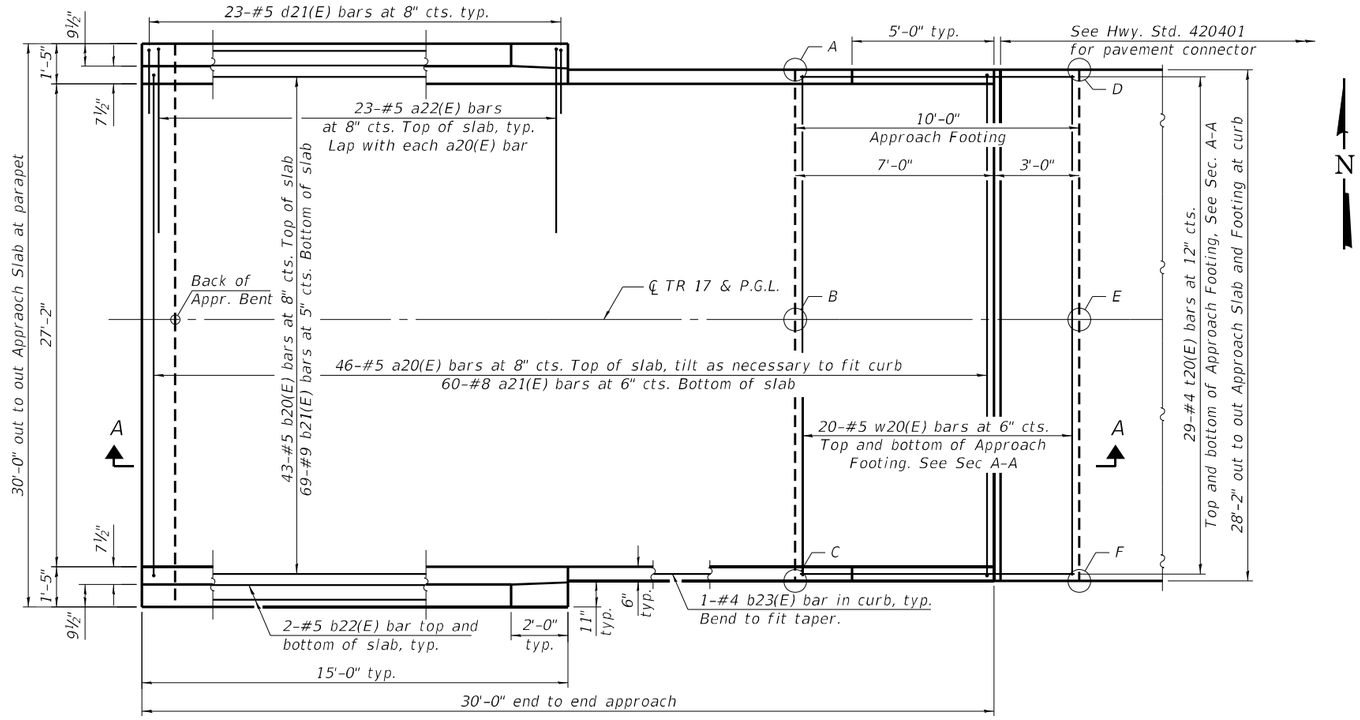
		CONTRACT NO. 72A59		
	ILLINOIS	FED. AID PROJECT		

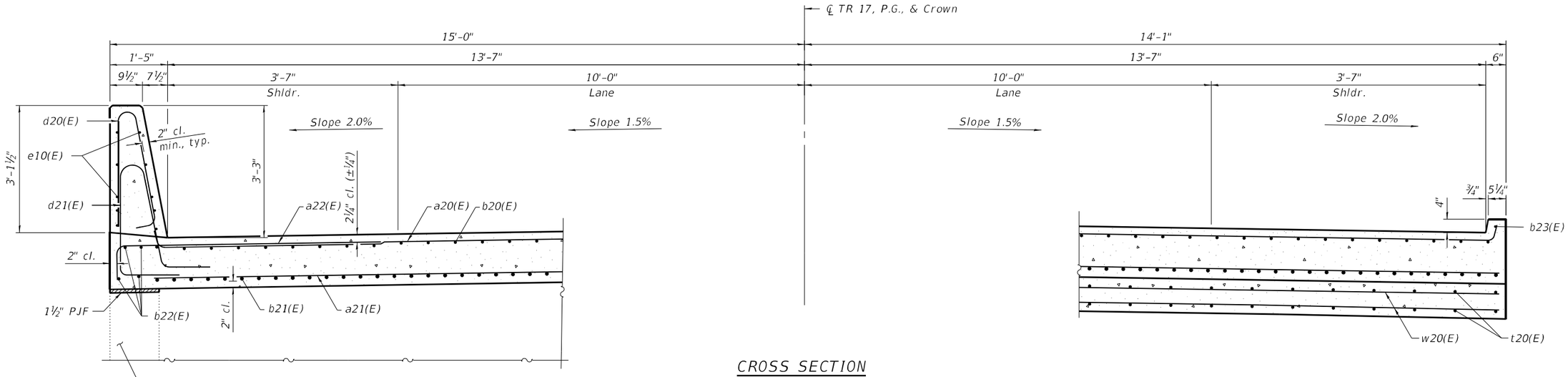


PLAN

(East approach slab shown; West approach slab similar by 180° rotation)

TOP AND BOTTOM ELEVATIONS FOR APPROACH FOOTING

West Approach			East Approach		
Point/ Location	Top	Bottom	Point/ Location	Top	Bottom
A	670.87	670.04	A	671.48	670.65
B	671.10	670.27	B	671.71	670.88
C	670.87	670.04	C	671.48	670.65
D	670.72	669.88	D	671.36	670.53
E	670.95	670.11	E	671.59	670.76
F	670.72	669.88	F	671.36	670.53



NEAR APPROACH BENT

CROSS SECTION

(Looking East)

AT APPROACH FOOTING

BAIA-CIP-39CS-0 2-1-2023

MODEL: Default
FILE NAME: S:\2021\21IL057 - PTB 200-32 D6 - Fehr Graham - Various Ph I-IIIWO 4 I-55 Bridge Redeck 068-0036\CADD\CADD Sheets\0680036-72A59-014-Bridge Approach Slab Details.dgn
10/8/2024 3:08:27 PM

QUIGG ENGINEERING INC

USER NAME = Structures2	DESIGNED - ZLD	REVISED -	
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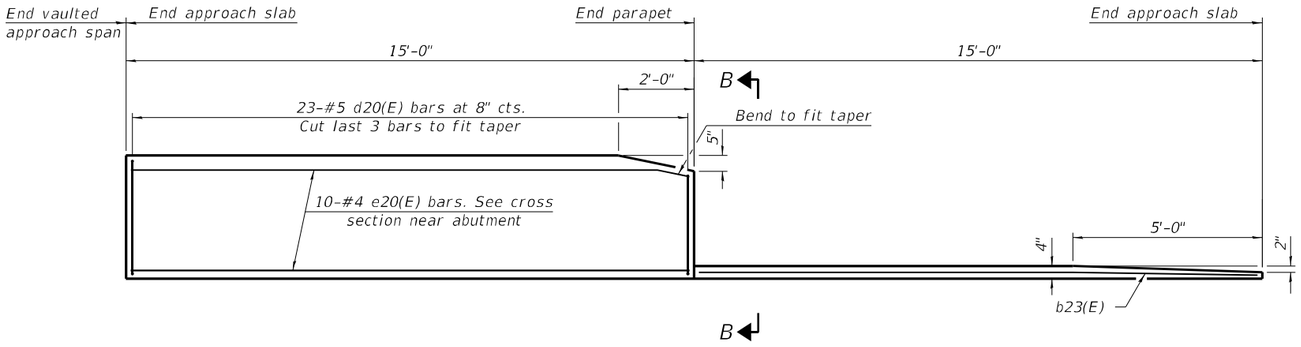
PLOT DATE =	CHECKED - MDC	REVISED -	

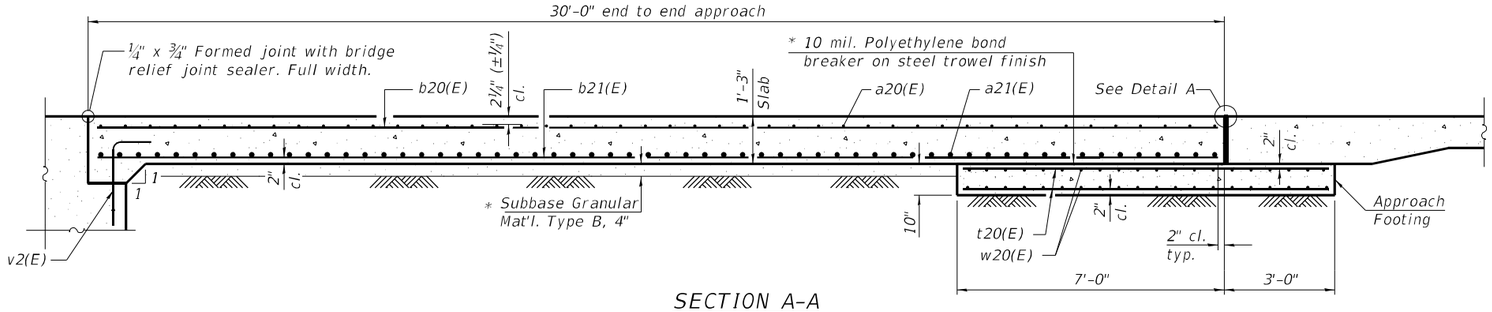
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BRIDGE APPROACH SLAB DETAILS
STRUCTURE NO. 068-0036
SHEET 14 OF 29 SHEETS

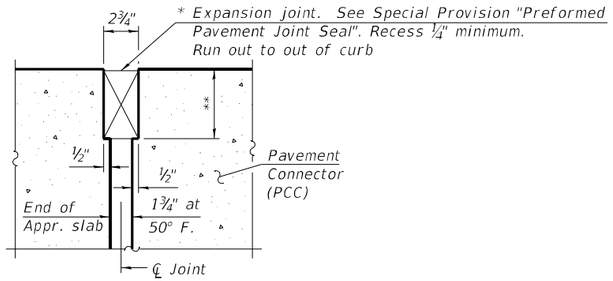
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(68-5HB-1,2)BRR,BY,D	MONTGOMERY	122	68
		CONTRACT NO. 72A59		
	ILLINOIS	FED. AID PROJECT		



INSIDE ELEVATION OF PARAPET AND CURB



SECTION A-A

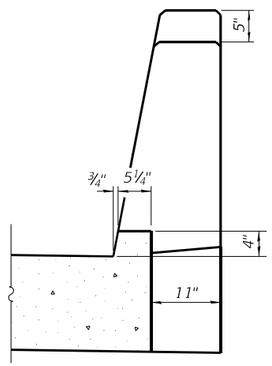


DETAIL A

(Detail A shown, applies to Highway Standard 420401 only. Detail A for pavement connector (HMA) may be found on Highway Standard 420406.)

* Cost included with Concrete Superstructure (Approach Slab).

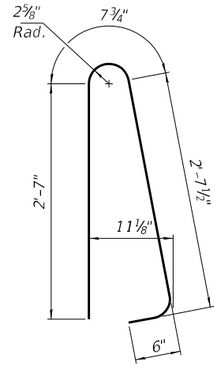
** Per manufacturer recommendations



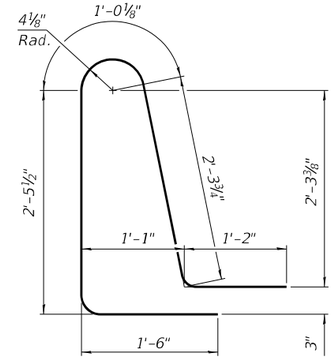
VIEW B-B

Notes:

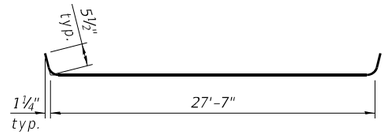
Parapet concrete shall be paid for as Concrete Superstructure.
Approach slab shall be paid for as Concrete Superstructure (Approach Slab).
Approach footing concrete shall be paid for as Concrete Structures.
The approach footing maximum applied service bearing pressure (Qmax) = 2.0 ksf.
Cost of excavation for approach footing included with Concrete Structures.
See sheets 23 and 24 of 29 for details of v2(E) bar.



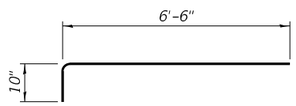
BAR d20(E)



BAR d21(E)



BAR a20(E)



BAR a22(E)

TWO APPROACHES BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a20(E)	92	#5	28'-6"	
a21(E)	120	#8	27'-10"	
a22(E)	92	#5	7'-4"	
b20(E)	86	#5	29'-8"	
b21(E)	138	#9	29'-8"	
b22(E)	16	#5	14'-8"	
b23(E)	4	#4	14'-8"	
d20(E)	92	#5	6'-5"	
d21(E)	92	#5	8'-6"	
e20(E)	40	#4	14'-8"	
t20(E)	116	#4	9'-8"	
w20(E)	80	#5	27'-10"	
Concrete Structures			Cu. Yd.	17.4
Concrete Superstructure			Cu. Yd.	7.8
Concrete Superstructure (Approach Slab)			Cu. Yd.	81.4
Reinforcement Bars, Epoxy Coated			Pound	34,130

BAIA-CIP-39CS-0 2-1-2023

MODEL: Default
FILE NAME: S:\2021211L057 - PTB 200-32 D6 - Fehr Graham - Various Ph I-IIIWO 4 I-55 Bridge Redeck 068-0036\CADD\CADD Sheets\0680036-72A59-015-Bridge Approach Slab Details.dgn
10/8/2024 3:08:28 PM

QUIGG ENGINEERING INC

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0680036-72A59-015-Bridge Approach Slab Details.dgn	CHECKED - RPW	REVISED -	
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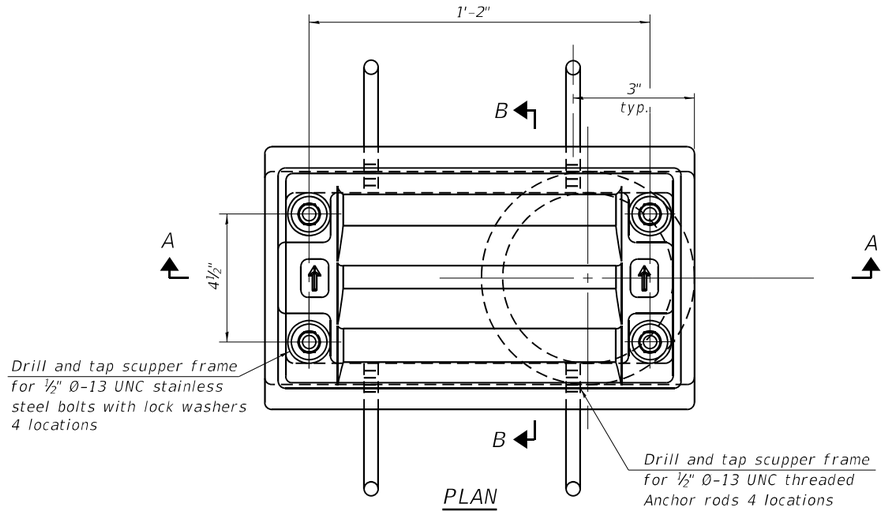
PLOT DATE =	CHECKED - MDC	REVISED -	

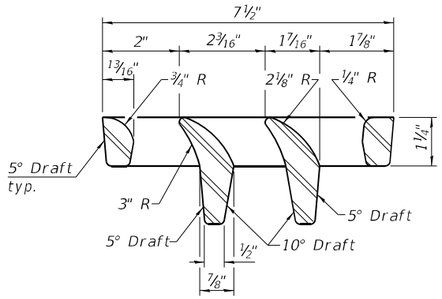
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BRIDGE APPROACH SLAB DETAILS
STRUCTURE NO. 068-0036
SHEET 15 OF 29 SHEETS

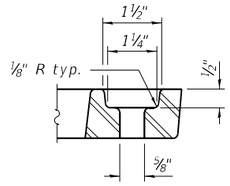
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(68-5HB-1,2)BRR,BY,D	MONTGOMERY	122	69
		CONTRACT NO. 72A59		
	ILLINOIS	FED. AID PROJECT		



PLAN



VANE GRATE DETAIL



GRATE BOLT HOLE DETAIL

Notes:

All cast iron parts shall be gray iron conforming to the requirements of AASHTO M105, Class 35B and AASHTO M306.

Bolts, anchor rods, nuts and washers shall be according to ASTM A307 and shall be galvanized according to AASHTO M232. As an alternate stainless steel may be used.

Stainless steel hardware shall be according to Article 1006.29(d) of the Standard Specifications.

Structural steel weldments of equal sections and of the same configuration may be substituted for the cast iron scupper frames and downspouts; however, the scupper grates shall remain cast iron. Fillet or full penetration welds shall be used for the weldments. Details shall be submitted to the Engineer for approval.

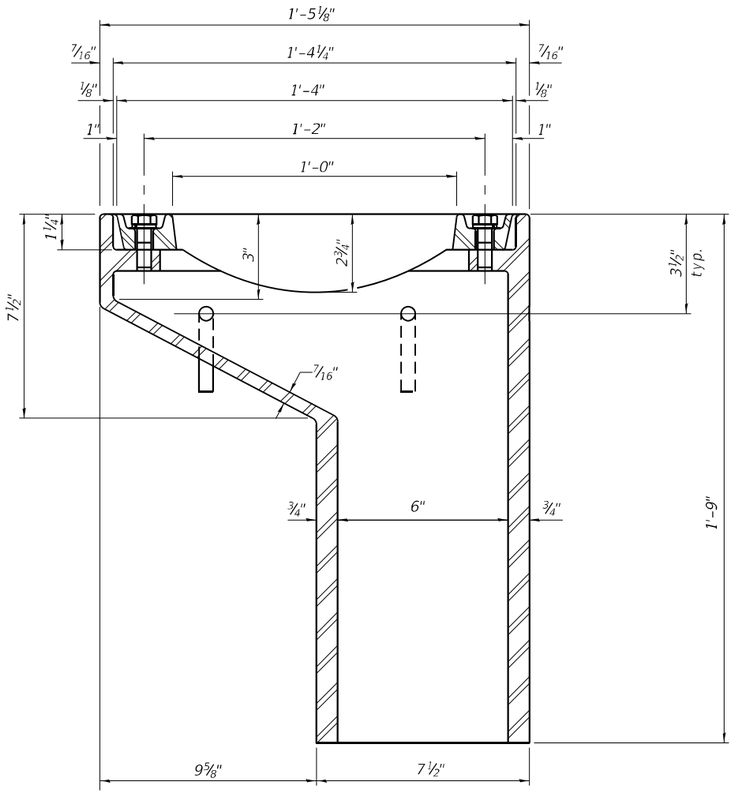
Structural steel scupper frames and downspouts, when utilized, shall be galvanized according to AASHTO M111.

As an alternate, fiberglass may be used for downspouts according to ASTM D2996 with a short-time rupture strength hoop tensile stress of 30,000 psi min. in lieu of the cast iron or structural steel.

Exterior surfaces of downspouts and exterior exposed surfaces of the scupper frame below deck shall be pigmented or painted to match the color of the exterior girder.

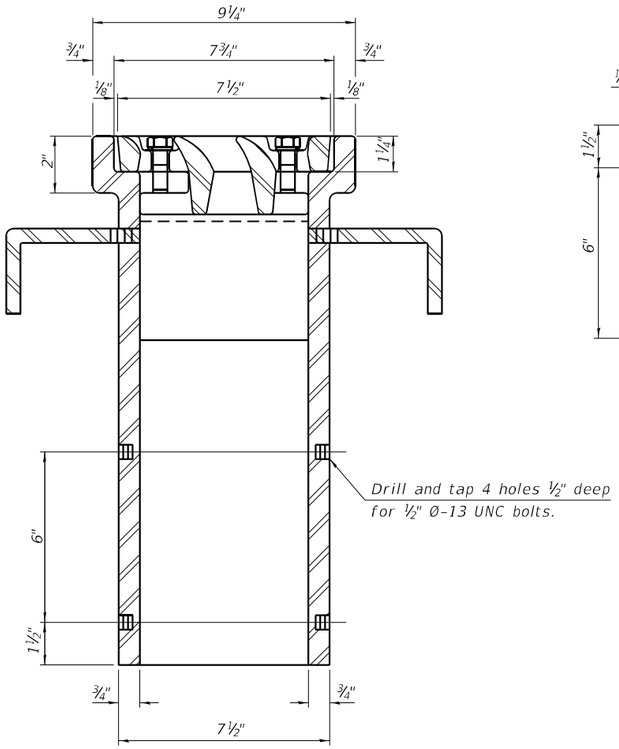
The Contractor shall take appropriate measures to assure that Protective Coat is not applied to the scupper.

Cost of the grate, frame, downspout, anchor rods, nuts and washers including complete installation of the scupper shall be paid for at the contract unit price for Drainage Scuppers, DS-11.

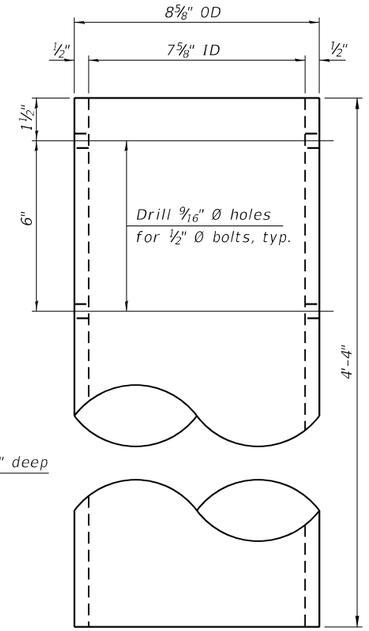


SECTION A-A

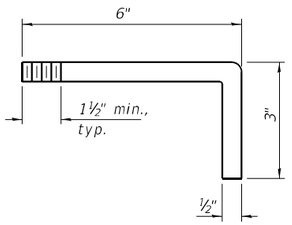
See sheet 11 of 29 for scupper location relative to parapet.



SECTION B-B



DOWNSPOUT



ANCHOR ROD DETAIL

BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Drainage Scuppers, DS-11	Each	4

DS-11 2-1-2023

QUIGG ENGINEERING INC

USER NAME = Structures2	DESIGNED - ZLD	REVISED -	
0680036-72A59-016-Drainage Scupper, DS-11.dgn	CHECKED - RPW	REVISED -	
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PLOT DATE =	CHECKED - MDC	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DRAINAGE SCUPPER, DS-11
STRUCTURE NO. 068-0036
SHEET 16 OF 29 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(68-5HB-1,2)BRR,BY,D	MONTGOMERY	122	70
		CONTRACT NO. 72A59		
		ILLINOIS	FED. AID PROJECT	

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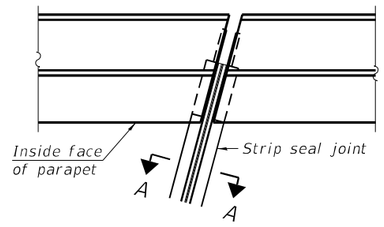
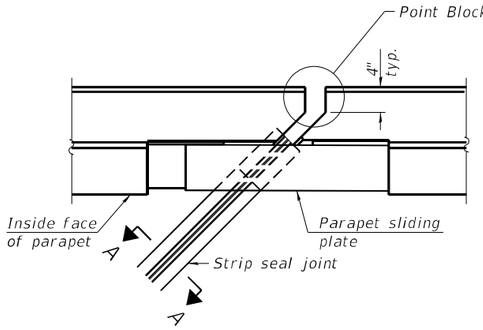
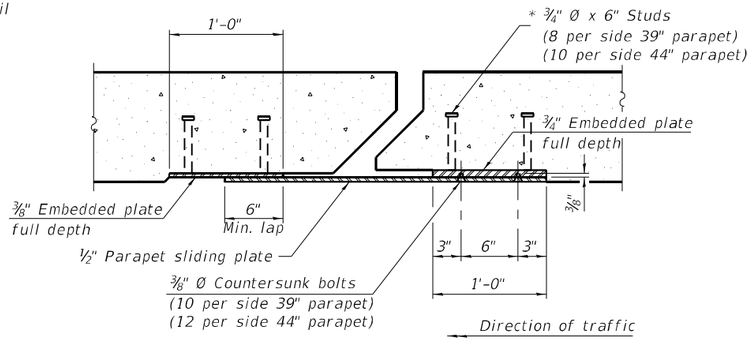


FOR SKEWS ≤ 30°

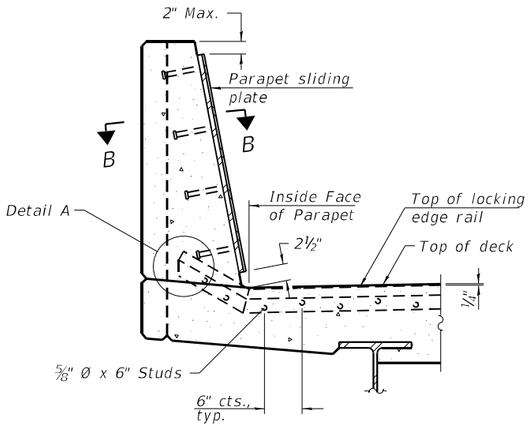


FOR SKEWS > 30°

PLAN AT PARAPET

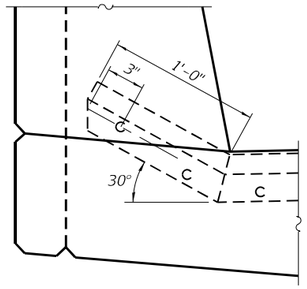


SECTION B-B

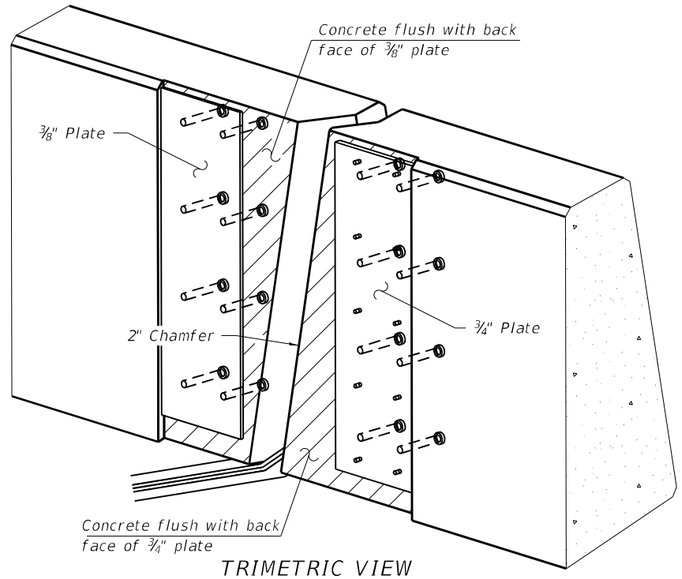


SECTION AT PARAPET

(Skews > 30° shown. Skews ≤ 30° similar except as shown in plan view.)

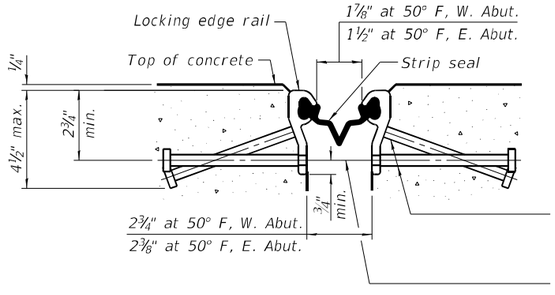


DETAIL A

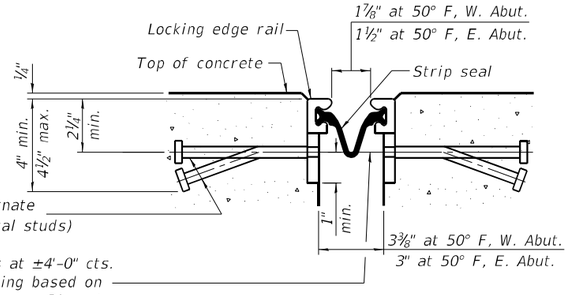


TRIMETRIC VIEW

(Showing embedded plates only)



SHOWING ROLLED RAIL JOINT



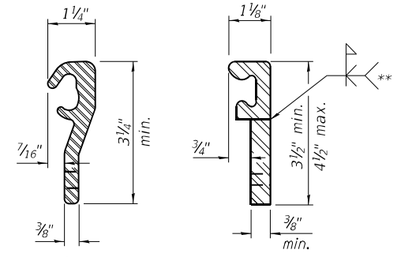
SHOWING WELDED RAIL JOINT

* ⅝" Ø x 6" studs @ 6" cts. (alternate angled/bent studs with horizontal studs)

⅜" ϕ threaded rods in 7/16" ϕ holes at ±4'-0" cts. for holding the proper joint opening based on the temperature during the deck pour. Place to miss studs. All rods shall be burned, or sawed off flush with the plates after concrete is set.

SECTION A-A

* Granular or solid flux filled headed studs conforming to Article 1006.32 of the Std. Specs., automatically end welded.



ROLLED (EXTRUDED) RAIL

WELDED RAIL

LOCKING EDGE RAILS

** Back gouge not required if complete joint penetration is verified by mock-up.

LOCKING EDGE RAIL SPLICE

The inside of the locking edge rail groove shall be free of weld residue. Rolled rail shown, welded rail similar.

Notes:

The strip seal shall be made continuous and shall have a minimum thickness of ¼". The configuration of the strip seal shall match the configuration of the locking edge rails. Open or "webbed" strip seal gland configurations are not permitted. The gland shall be sized for a maximum rated movement of 4 inches.

The locking edge rails depicted are configured for typical applications and are conceptual only. The actual configuration of the locking edge rails and matching strip seal may vary from manufacturer to manufacturer provided they fit the application and meet the minimum anchorage shown. Flanged edge rails, however, will not be allowed. Locking edge rails may exceed the 4½" maximum depth provided the anchorage system is revised according to the manufacturer's recommendation.

The manufacturer's recommended installation methods shall be followed.

All steel components shall be galvanized after fabrication according to Article 520.03 of the Standard Specifications.

The Maximum space between locking edge rail segments shall be 3/16" and sealed with a suitable sealant; however, any rail joint within 10' measured perpendicular to the face of the curb or parapet shall be welded as shown in the locking edge rail splice detail.

Cost of parapet sliding plates, embedded plates, and anchorage studs included with Preformed Joint Strip Seal.

39" constant slope barrier shown, 44" constant slope barrier similar as noted.

The concrete opening below the strip seal will vary based on the locking edge rail chosen by the Contractor. Deck and parapet lengths shown elsewhere in the plans are dimensioned to the concrete opening, not the joint opening, and are based on the rolled locking edge rail. If the Contractor elects to use a different locking edge rail, dimensional adjustments may be required. One exception to this would be the strip seal joint at the end of the precast bridge approach slab. For these cases the pavement connector length shall be adjusted, not the length of the bridge approach slab.

BILL OF MATERIAL

Item	Unit	Total
Preformed Joint Strip Seal	Foot	58.5

EJ-SS

1-1-2020

QUIGG ENGINEERING INC

USER NAME = Structures2	DESIGNED - ZLD	REVISED -	
0680036-72A59-017-Preformed Joint Strip Seal.dgn	CHECKED - RPW	REVISED -	
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PLOT DATE =	CHECKED - MDC	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PREFORMED JOINT STRIP SEAL
STRUCTURE NO. 068-0036
SHEET 17 OF 29 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(68-5HB-1,2)BRR,BY,D	MONTGOMERY	122	71
		CONTRACT NO. 72A59		
	ILLINOIS	FED. AID PROJECT		

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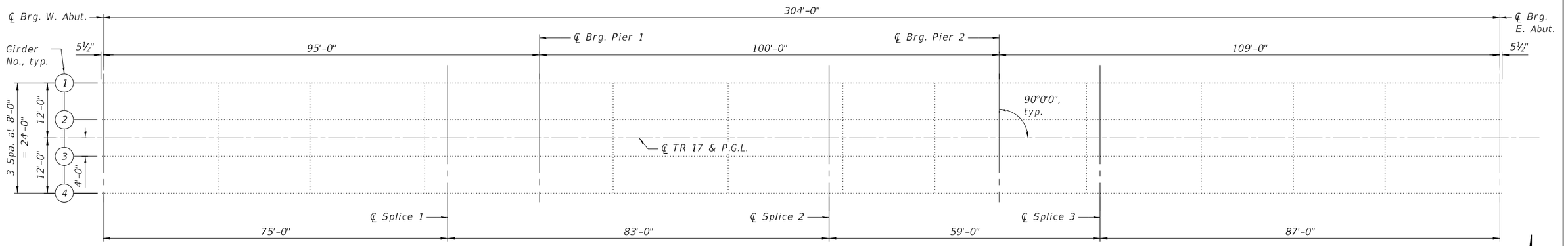
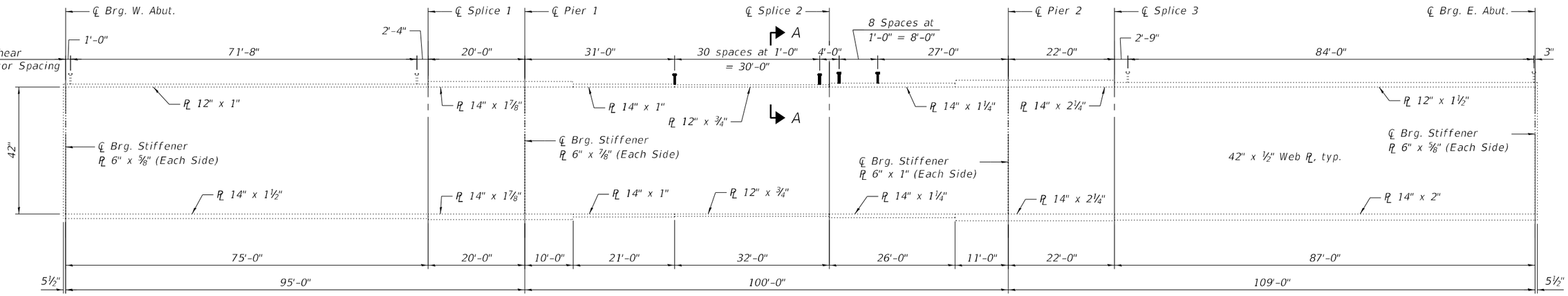
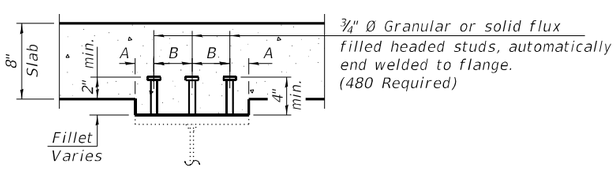


EXISTING GIRDER FRAMING PLAN



EXISTING GIRDER ELEVATION

Flange Width	A	B
12"	2"	4"
14"	3"	4"



SECTION A-A

Note:
See sheets 10 and 11 of 29 for fillet reinforcement.

INTERIOR GIRDER MOMENT TABLE						
		0.4 Sp. 1	Pier 1	0.5 Sp. 2	Pier 2	0.6 Sp. 3
Is	(in^4)	17,842	28,368	11,312	33,953	24,415
Ic(n)	(in^4)	51,954	–	32,418	–	63,711
Ic(3n)	(in^4)	37,547	–	24,535	–	45,871
Ss	(in^3)	948	1,240	520	1,460	1,242
Sc(n)	(in^3)	1,341	–	789	–	1,673
Sc(3n)	(in^3)	1,236	–	722	–	1,542
Z	(in^3)	–	1,372	–	1,614	–
$\wp$	(k/')	1.043	1.575	0.991	1.611	1.087
$M\wp$	('k)	735	–1,408	121	–1,803	1,037
$s\wp$	(k/')	0.463	–	0.463	–	0.463
$Ms\wp$	('k)	341	–	128	–	461
LLDF		1.455	1.455	1.455	1.455	1.455
M_L	('k)	914	–657	670	–731	1,055
MI	('k)	208	–148	149	–159	225
5/3 [M_L + I]	('k)	1870	–1342	1365	–1483	2133
Ma	('k)	3830	–3575	2098	–4272	4720
* Mu	('k)	5217	4117	3405	4843	6300
fs $\wp$ (non-comp)	(ksi)	9.3	–13.6	2.8	–14.8	10.0
fs $\wp$ (comp)	(ksi)	3.3	–	2.1	–	3.6
fs 5/3 [M_L + M_I]	(ksi)	16.7	–13.0	20.8	–12.2	15.3
fs (Overload)	(ksi)	29.3	–26.6	25.7	–27.0	28.9
** fs (Total)	(ksi)	–	–	–	–	–
VR	(k)	55.7	–	54.6	–	55.6

* Compact section
** Braced non-compact and partially braced section

INTERIOR GIRDER REACTION TABLE					
		W. Abut.	Pier 1	Pier 2	E. Abut.
LLDF		1.698	1.455	1.455	1.698
$R\wp$	(k)	57.9	158.5	182.5	69.2
R_L	(k)	50.4	71.3	75.1	51.1
R_I	(k)	11.5	11.2	11.3	10.9
R_{Total} (Service I)	(k)	119.8	241.0	268.9	131.2

Is, Ss: Non-composite moment of inertia and section modulus of the steel section used for computing fs(Total and Overload) due to non-composite dead loads ($in.^4$ and $in.^3$).

Ic(n), Sc(n): Composite moment of inertia and section modulus of the steel and deck based upon the modular ratio, "n", used for computing fs(Total and Overload) due to short-term composite live loads ($in.^4$ and $in.^3$).

Ic(3n), Sc(3n): Composite moment of inertia and section modulus of the steel and deck based upon 3 times the modular ratio, "3n", used for computing fs(Total and Overload) due to long-term composite (superimposed) dead loads ($in.^4$ and $in.^3$).

Z: Plastic Section Modulus of the steel section in non-composite areas ($in.^3$).

$\wp$: Un-factored non-composite dead load (kips/ft.).

$M\wp$: Un-factored moment due to non-composite dead load (kip-ft.).

$s\wp$: Un-factored long-term composite (superimposed) dead load (kips/ft.)

$Ms\wp$: Un-factored moment due to long-term composite (superimposed) dead load (kip-ft.).

LLDF: Live Load Distribution Factor for moment and shear computed according to AASHTO LFD 3.23.1.

M_L: Un-factored live load moment (kip-ft.).

MI: Un-factored moment due to impact (kip-ft.).

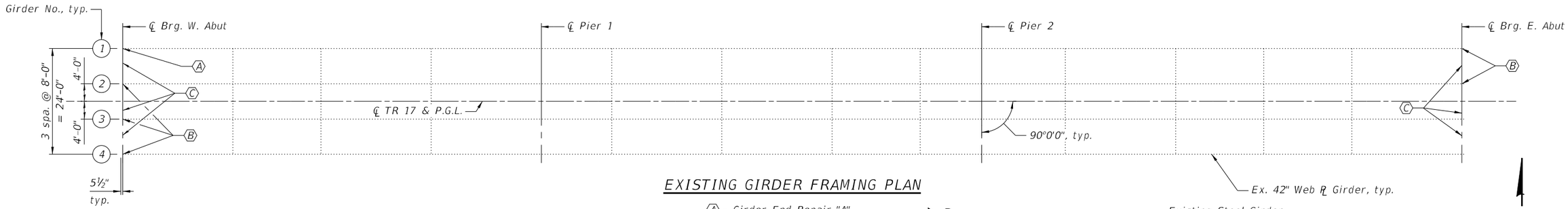
Ma: Factored design moment (kip-ft.).
1.3 [$M\wp$ + $Ms\wp$ + $\frac{5}{3}$ (M_L + MI)]

Mu: Compact composite moment capacity according to AASHTO LFD 10.50.1.1 or compact non-composite moment capacity according to AASHTO LFD 10.48.1 (kip-ft.).

fs (Overload): Sum of stresses as computed from the moments below (ksi).
$M\wp$ + $Ms\wp$ + $\frac{5}{3}$ (M_L + MI)

fs (Total): Sum of stresses as computed from the moments below on non-compact section (ksi).
1.3 [$M\wp$ + $Ms\wp$ + $\frac{5}{3}$ (M_L + MI)]

VR: Maximum$_L$ + impact shear range within the composite portion of the span for stud shear connector design (kips).

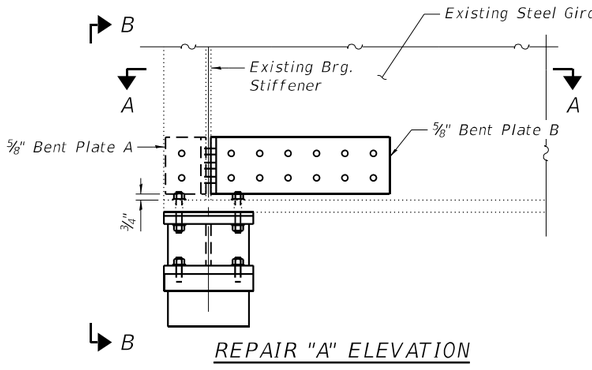


EXISTING GIRDER FRAMING PLAN

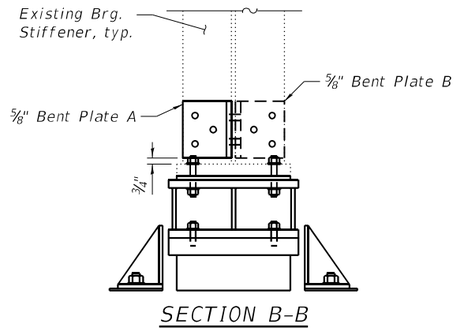
Ⓐ – Girder End Repair "A"

Ⓑ – Girder End Repair "B"

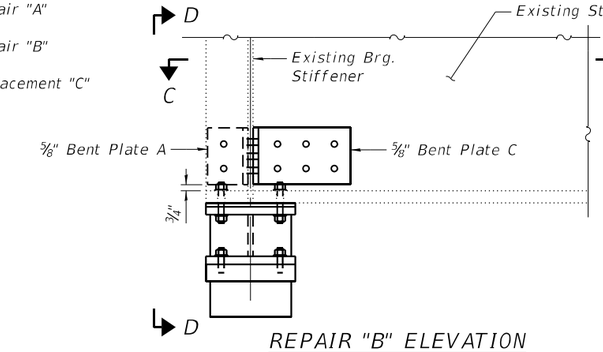
Ⓒ – Diaphragm Replacement "C"



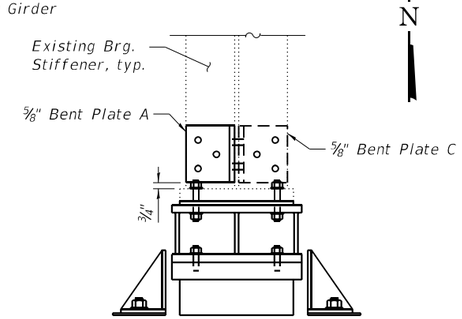
REPAIR "A" ELEVATION



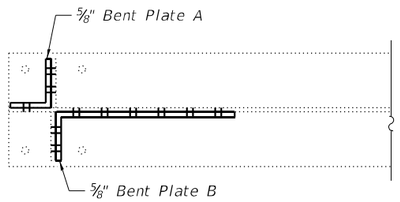
SECTION B-B



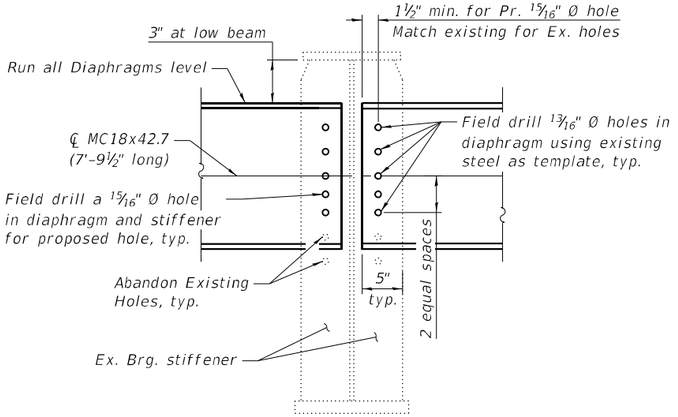
REPAIR "B" ELEVATION



SECTION D-D



SECTION A-A



DIAPHRAGM REPLACEMENT "C"

(6 Diaphragms Required)

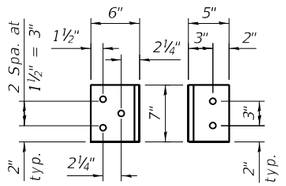


PLATE A

(6 Required)

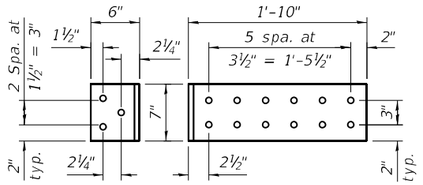


PLATE B

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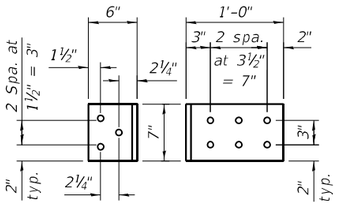
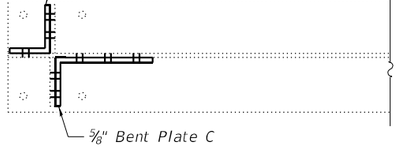


PLATE C

(5 Required)



SECTION C-C

Notes:

Field drill 15/16" Ø holes for ¾" Ø bolts into existing stiffener and proposed diaphragm for diaphragm replacement.

Field drill 13/16" Ø holes for ¾" Ø bolts into existing girder for Structural Steel Repair.

Use holes in new steel as template to field drill holes in existing steel for Structural Steel Repair.

All structural steel plates shall be AASHTO M270 Grade 50 for Structural Steel Repair.

All steel channels shall be AASHTO M270 Grade 36.

Fasteners shall be ASTM A325 Type 1, mechanically galvanized bolts. Bolts ¾" Ø, holes 13/16" Ø, unless otherwise noted.

All materials for the structural steel repair including plates, bolts, nuts, and washers shall be galvanized per the special provision "Hot Dip Galvanizing for Structural Steel". Cost included in Structural Steel Repair.

All materials for the diaphragm replacement including channels, bolts, nuts, and washers shall be galvanized per the special provision "Hot Dip Galvanizing for Structural Steel". Cost included in Furnishing and Erecting Structural Steel.

Existing structural steel that will be in contact with new structural steel shall be cleaned and painted prior to erection as required by the special provision "Cleaning and Painting Contact Surface Areas of Existing Steel Structures". Cost included in Structural Steel Repair.

Two hardened washers required for each set of oversized holes.

Alternate channels of equal depth and larger weight are permitted to facilitate material acquisition. Alternate channels, if utilized, shall be provided at no additional cost to the Department.

BILL OF MATERIAL

Item	Unit	Total
Furnishing and Erecting Structural Steel	Pound	2,040
Structural Steel Removal	Pound	2,000
Structural Steel Repair	Pound	140

QUIGG ENGINEERING INC

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0680036-72A59-020-Girder End Repairs.dgn	CHECKED - RPW	REVISED -	
PLOT SCALE = 23:4.0000 ":" / in.	DRAWN - JDC	REVISED -	
PLOT DATE =	CHECKED - MDC	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GIRDER END REPAIRS
STRUCTURE NO. 068-0036

SHEET 20 OF 29 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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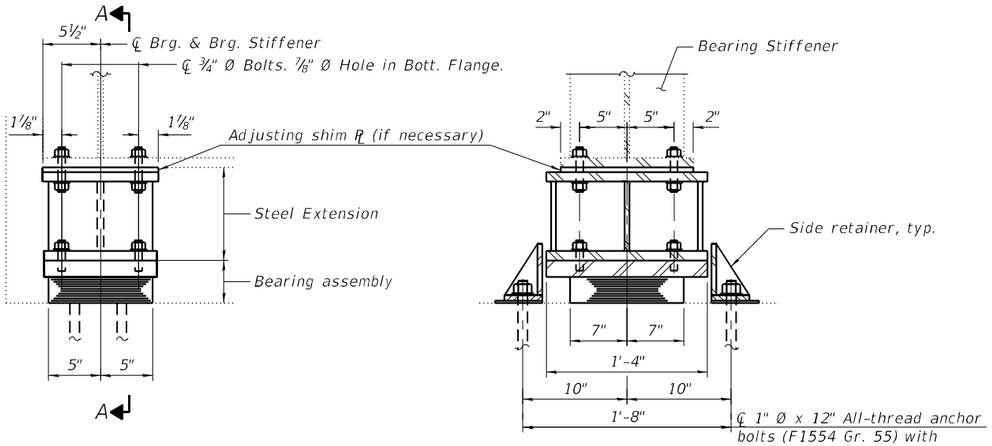
		CONTRACT NO. 72A59		
	ILLINOIS	FED. AID PROJECT		

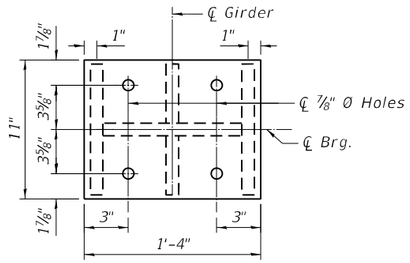


ELEVATION AT ABUT.

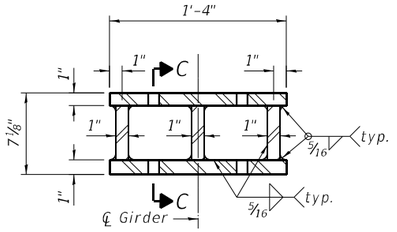
SECTION A-A

WEST ABUT. TYPE I ELASTOMERIC EXP. BRG.

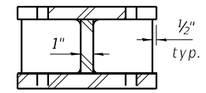
(4 Required)



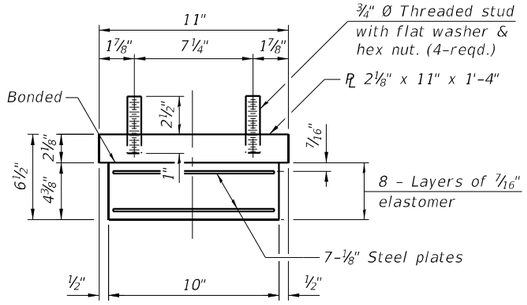
PLAN STEEL EXTENSION AT WEST ABUTMENT



ELEVATION STEEL EXTENSION AT WEST ABUTMENT

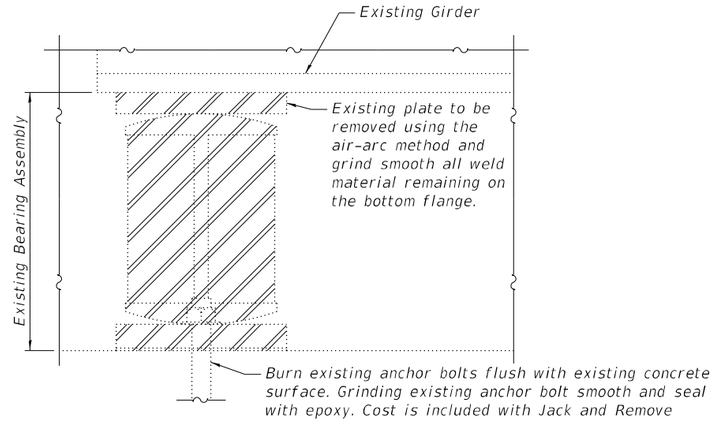


SECTION C-C



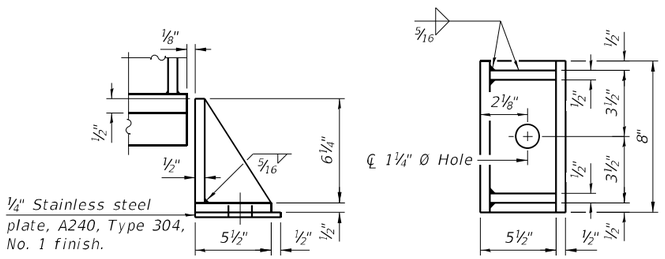
WEST ABUT. BEARING ASSEMBLY

Note:
Shim plates shall not be placed under bearing assembly.



EXISTING BEARING REMOVAL DETAIL

(Cost of bearing removal is included with Jack and Remove Existing Bearings)



SIDE RETAINER

Equivalent rolled angle with stiffeners will be allowed in lieu of welded plates.

Notes:

Side retainers and other steel members required for the elastomeric bearing assembly shall be included in the cost of Elastomeric Bearing Assembly, Type I.

Anchor bolts and side retainers at all supports shall be installed as each existing bearing assembly is replaced unless an equivalent temporary means of lateral restraint is used.

Prior to ordering any materials, the Contractor shall verify in the field all bearing height and shim plate thickness dimensions.

Plates and fasteners required for the steel extensions shall be paid for with "Furnishing and Erecting Structural Steel".

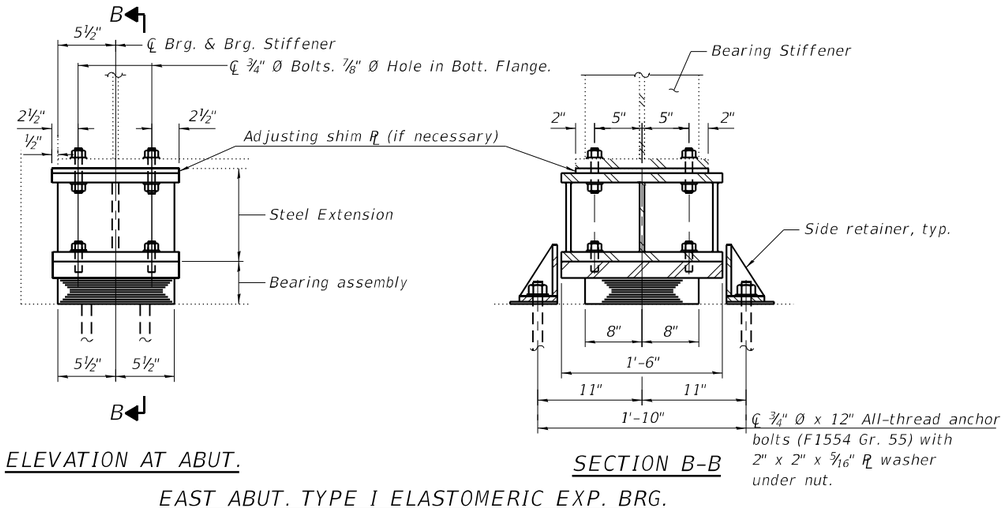
The structural steel plates of the Bearing Assembly and steel extensions shall conform to the requirements of AASHTO M270 Grade 36.

Two ⅛ in. adjusting shims shall be provided for each bearing in addition to all other plates or shims and placed as shown. Adjusting shim plates shall be paid for with "Furnishing and Erecting Structural Steel".

All bearing plates, steel extensions, side retainers, anchor bolts, nuts and washers shall be galvanized according to AASHTO M111 or M232 as applicable. Cost shall be included with Elastomeric Bearing Assembly, Type I.

BILL OF MATERIAL

Item	Unit	Total
Furnishing and Erecting Structural Steel	Pound	730
Elastomeric Bearing Assembly, Type I	Each	4
Anchor Bolts, 1"	Each	8

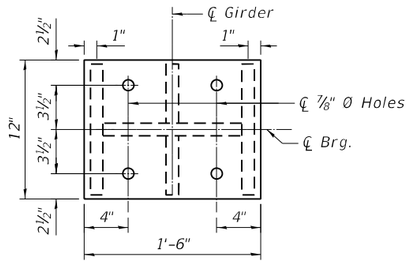


ELEVATION AT ABUT.

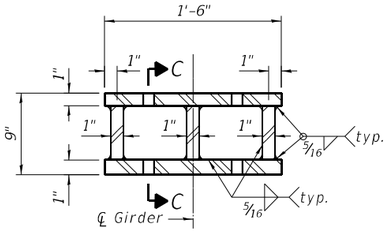
SECTION B-B

EAST ABUT. TYPE I ELASTOMERIC EXP. BRG.

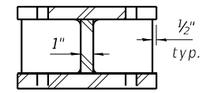
(4 Required)



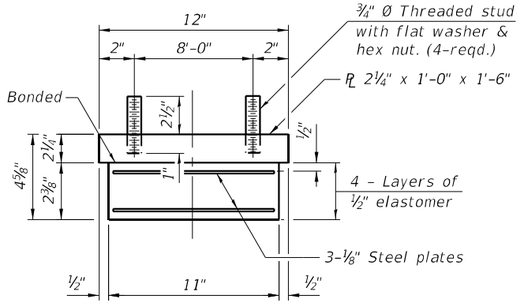
PLAN STEEL EXTENSION AT EAST ABUTMENT



ELEVATION STEEL EXTENSION AT EAST ABUTMENT

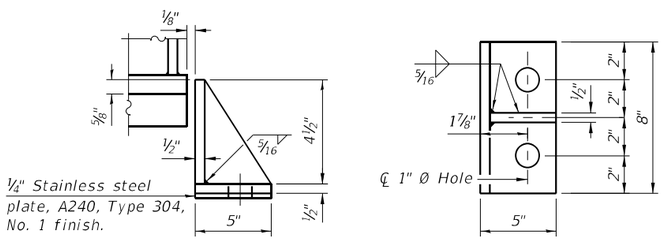


SECTION C-C



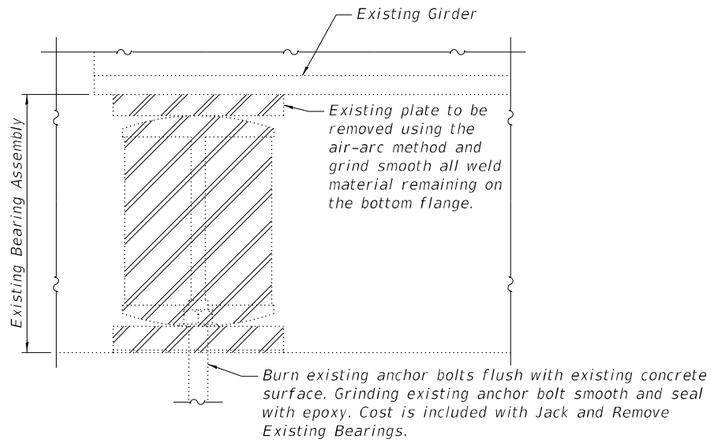
EAST ABUT. BEARING ASSEMBLY

Note:
Shim plates shall not be placed under bearing assembly.



SIDE RETAINER

Equivalent rolled angle with stiffeners will be allowed in lieu of welded plates.



EXISTING BEARING REMOVAL DETAIL

(Cost of bearing removal is included with Jack and Remove Existing Bearings)

Notes:

Side retainers and other steel members required for the elastomeric bearing assembly shall be included in the cost of Elastomeric Bearing Assembly, Type I.

Anchor bolts and side retainers at all supports shall be installed as each existing bearing assembly is replaced unless an equivalent temporary means of lateral restraint is used.

Prior to ordering any materials, the Contractor shall verify in the field all bearing height and shim plate thickness dimensions.

Plates and fasteners required for the steel extensions shall be paid for with "Furnishing and Erecting Structural Steel".

The structural steel plates of the Bearing Assembly and steel extensions shall conform to the requirements of AASHTO M270 Grade 36.

Two ⅛ in. adjusting shims shall be provided for each bearing in addition to all other plates or shims and placed as shown. Adjusting shim plates shall be paid for with "Furnishing and Erecting Structural Steel".

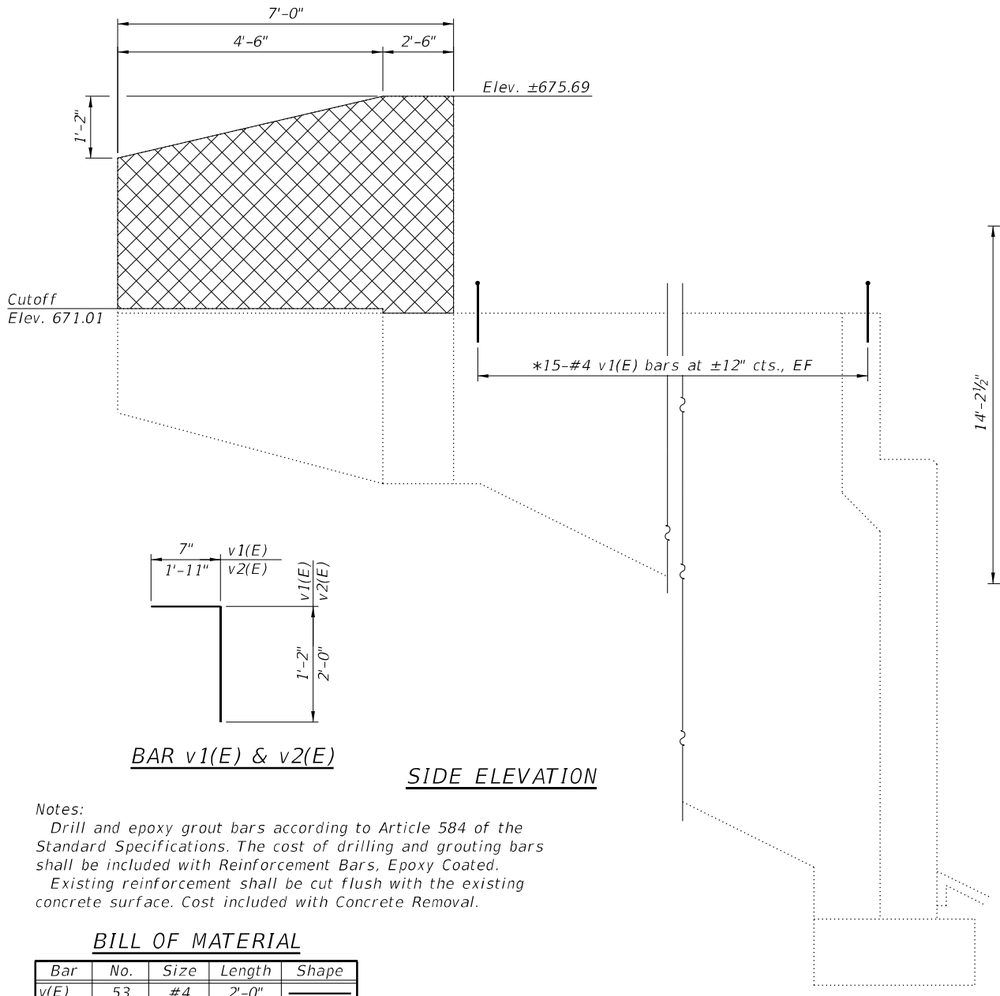
All bearing plates, steel extensions, side retainers, anchor bolts, nuts and washers shall be galvanized according to AASHTO M111 or M232 as applicable. Cost shall be included with Elastomeric Bearing Assembly, Type I.

ADDITIONAL SHIM PLATE THICKNESS REQUIRED

	Girder 1	Girder 2	Girder 3	Girder 4
E. Abut.	⅛"	0"	0	⅛"

BILL OF MATERIAL

Item	Unit	Total
Furnishing and Erecting Structural Steel	Pound	970
Elastomeric Bearing Assembly, Type I	Each	4
Anchor Bolts, ¾"	Each	16



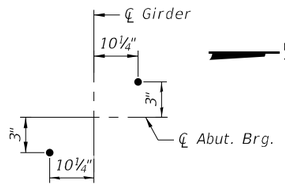
SIDE ELEVATION

BAR v1(E) & v2(E)

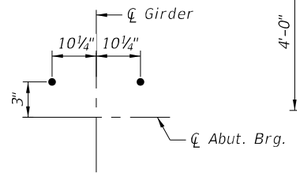
Notes:
Drill and epoxy grout bars according to Article 584 of the Standard Specifications. The cost of drilling and grouting bars shall be included with Reinforcement Bars, Epoxy Coated.
Existing reinforcement shall be cut flush with the existing concrete surface. Cost included with Concrete Removal.

BILL OF MATERIAL

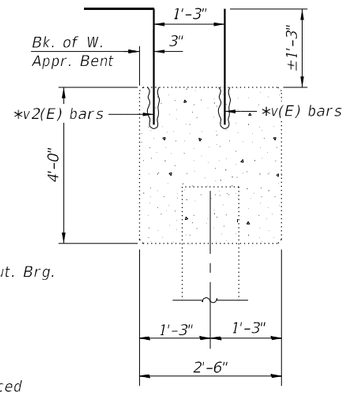
Bar	No.	Size	Length	Shape
v(E)	53	#4	2'-0"	———
v1(E)	60	#4	1'-9"	⌐
v2(E)	29	#5	3'-11"	⌐
Concrete Removal		Cu. Yd.		2.3
Reinforcement Bars, Epoxy Coated		Pound		260



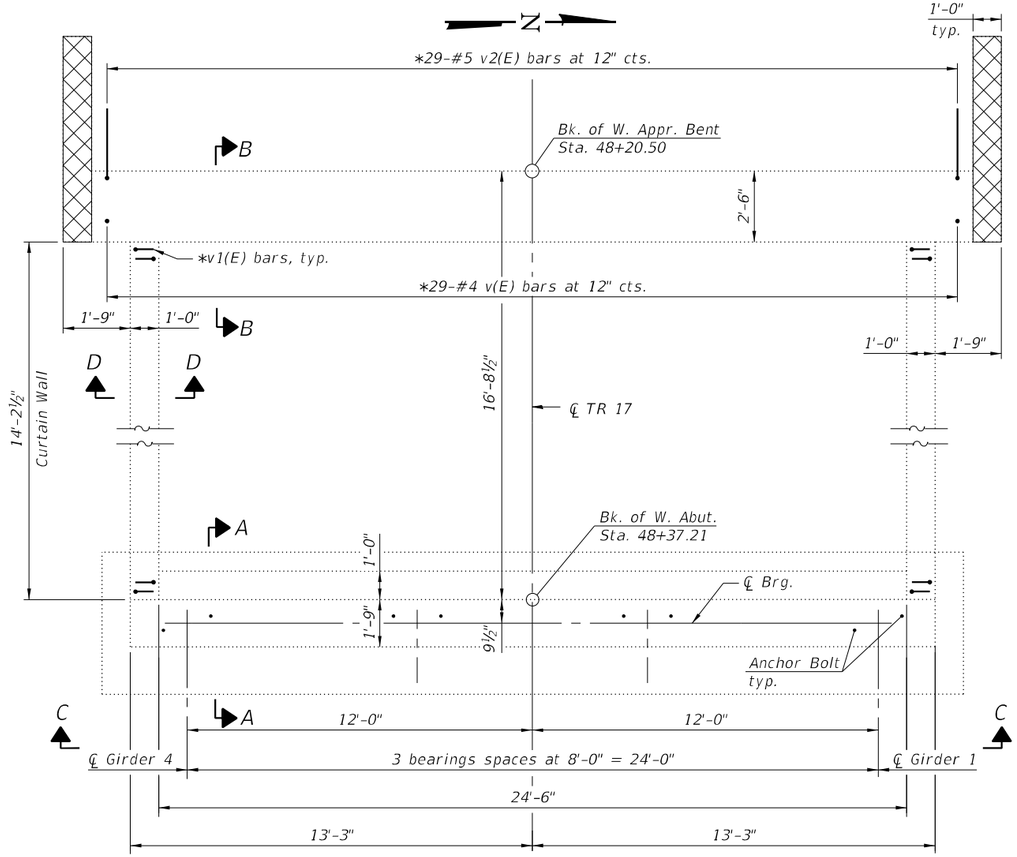
ANCHOR BOLT LAYOUT
(Girders 1 and 4)
(The proposed anchor bolts are spaced to miss the existing and previous sets of anchor bolts.)



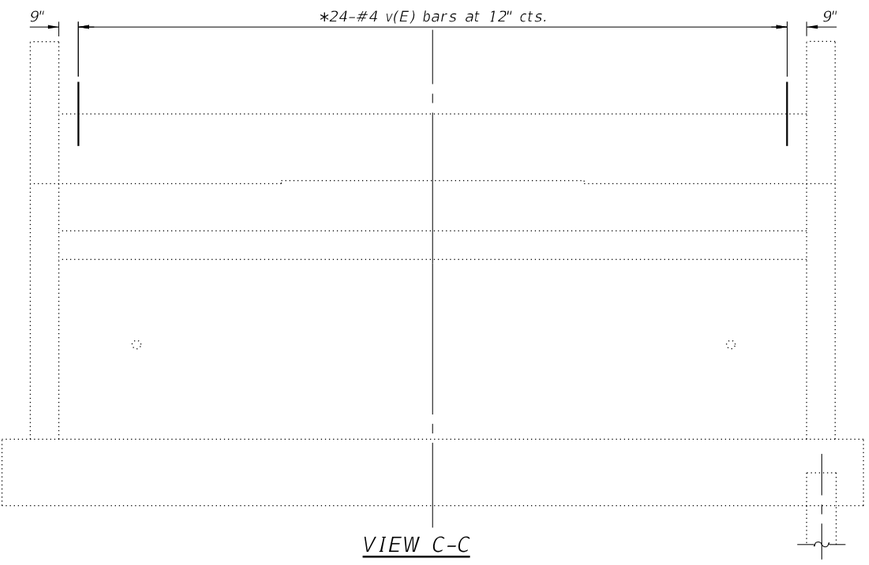
ANCHOR BOLT LAYOUT
(Girders 2 and 3)
(The proposed anchor bolts are spaced to miss the existing and previous sets of anchor bolts.)



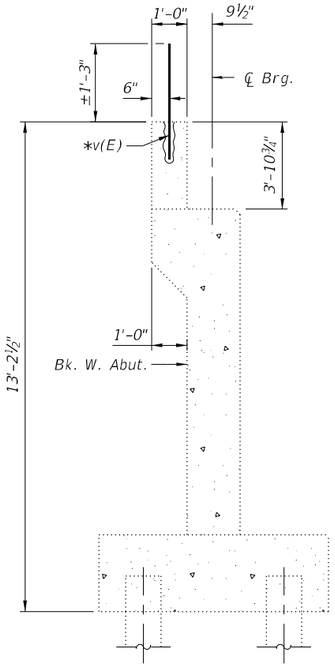
SECTION B-B



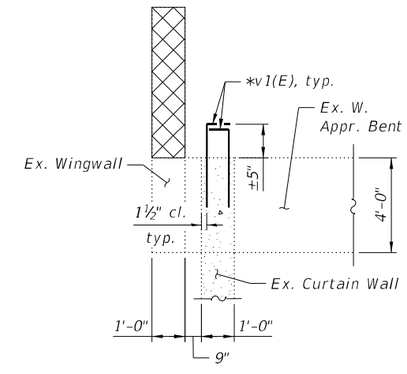
PLAN



VIEW C-C



SECTION A-A



SECTION D-D

* Drill and epoxy grout bars. 9" min. embedment. Space to miss existing bars.

LEGEND

Existing Concrete Removal

MODEL: Default
FILE NAME: S:\2021\21IL057 - PTB 200-32 D6 - Fehr Graham - Various Ph I-IllWO 4 I-55 Bridge Redeck 068-0036\CADD\CADD Sheets\0680036-72A59-023-West Abutment.dgn
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QUIGG ENGINEERING INC	USER NAME = Structures2	DESIGNED - ZLD	REVISED -
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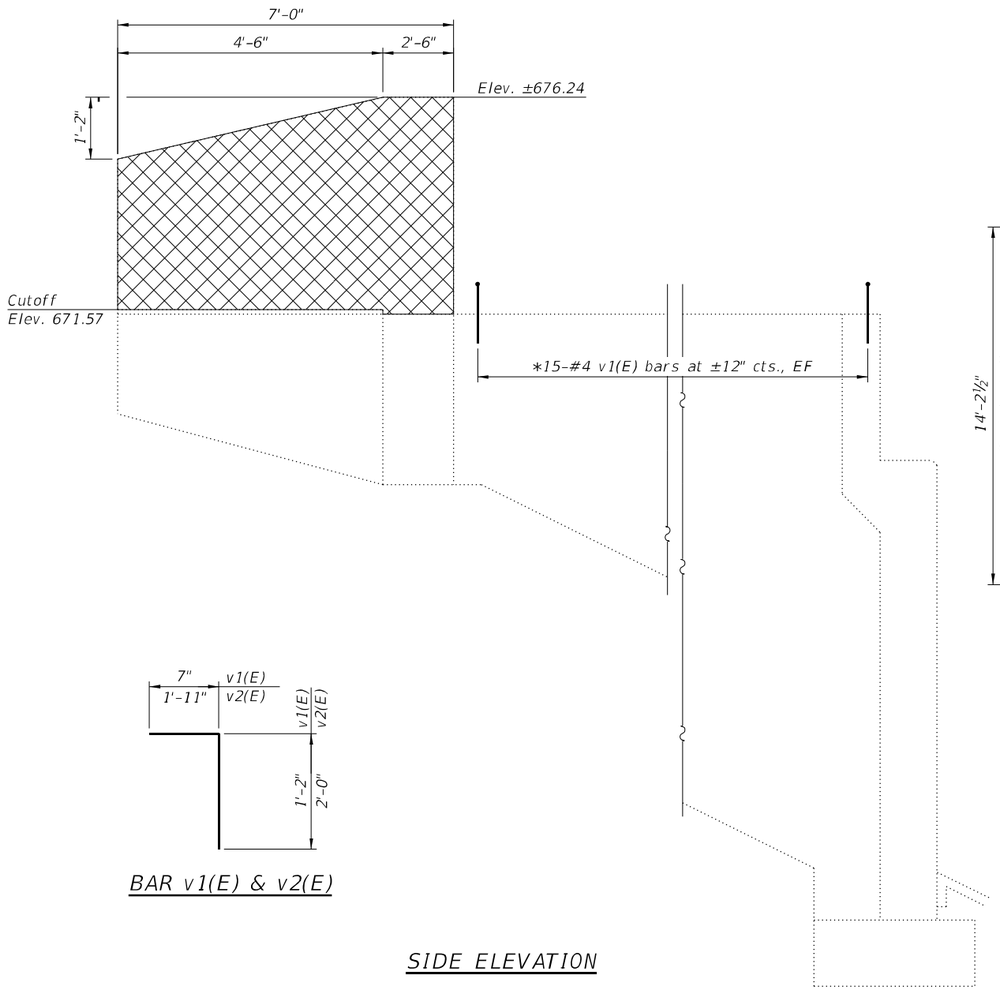
	PLOT DATE =	CHECKED - MDC	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

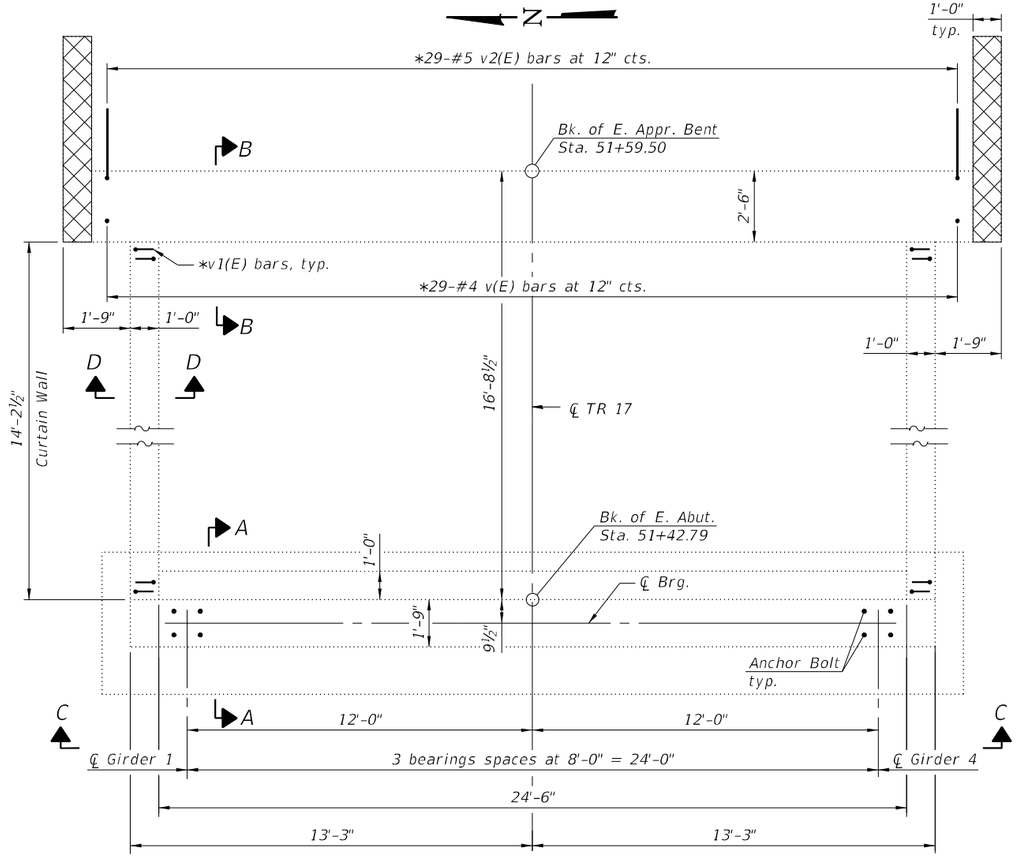
WEST ABUTMENT
STRUCTURE NO. 068-0036
SHEET 23 OF 29 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(68-5HB-1,2)BRR,BY,D	MONTGOMERY	122	77
		CONTRACT NO. 72A59		
	ILLINOIS	FED. AID PROJECT		

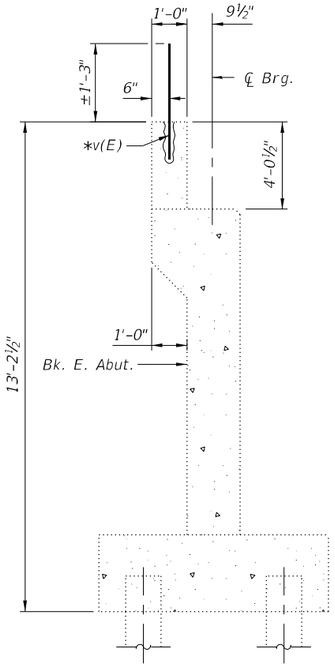


SIDE ELEVATION

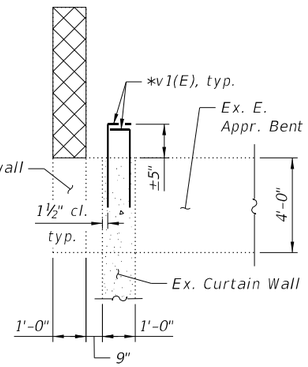
BAR v1(E) & v2(E)



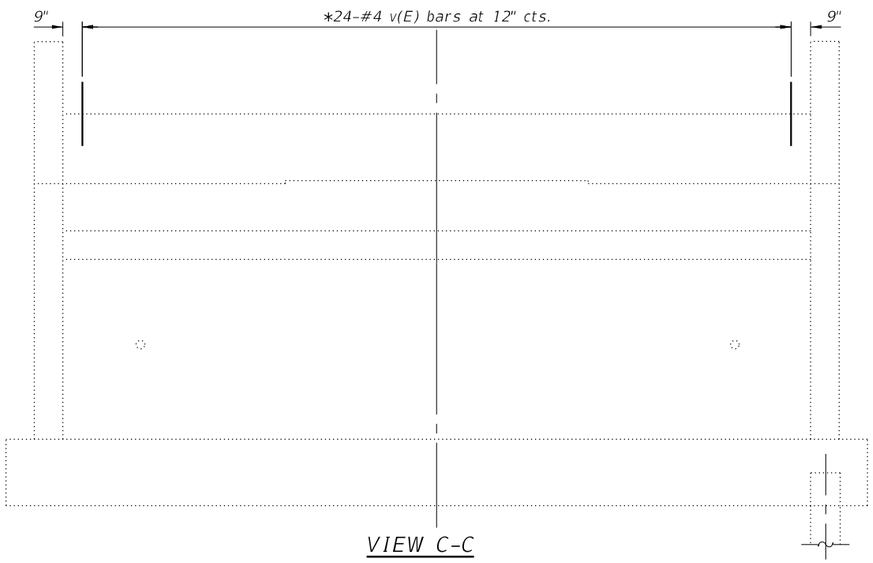
PLAN



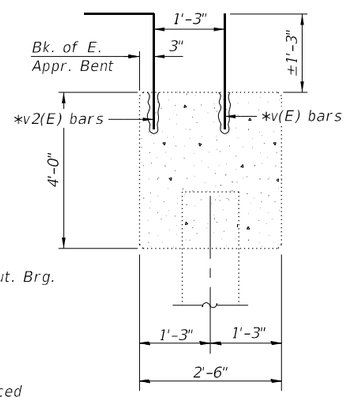
SECTION A-A



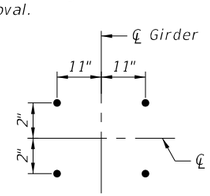
SECTION D-D



VIEW C-C



SECTION B-B



ANCHOR BOLT LAYOUT

(All Girders)
(The proposed anchor bolts are spaced to miss the existing and previous sets of anchor bolts.)

Notes:
Drill and epoxy grout bars according to Article 584 of the Standard Specifications. The cost of drilling and grouting bars shall be included with Reinforcement Bars, Epoxy Coated.
Existing reinforcement shall be cut flush with the existing concrete surface. Cost included with Concrete Removal.

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
v(E)	53	#4	2'-0"	———
v1(E)	60	#4	1'-9"	⌐
v2(E)	29	#5	3'-11"	⌐
Concrete Removal			Cu. Yd.	2.3
Reinforcement Bars, Epoxy Coated			Pound	260

* Drill and epoxy grout bars. 9" min. embedment. Space to miss existing bars.

LEGEND

Existing Concrete Removal

MODEL: Default
FILE NAME: S:\2021\21IL057 - PTB 200-32 D6 - Fehr Graham - Various Ph II\WO 4 I-55 Bridge Redeck 068-0036\CADD\CADD Sheets\0680036-72A59-024-East Abutment.dgn
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QUIGG ENGINEERING INC

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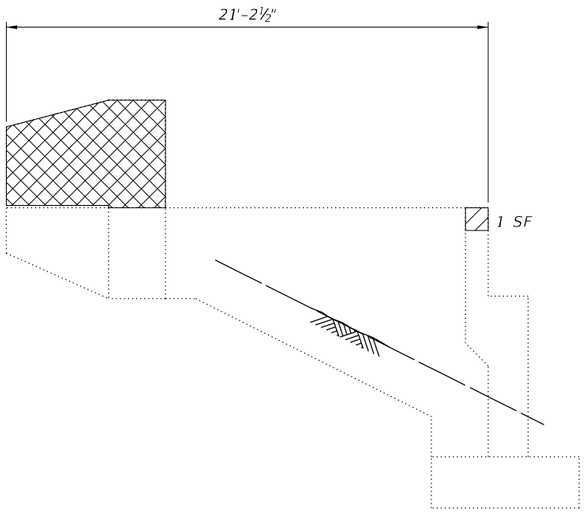
PLOT DATE =	CHECKED - MDC	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

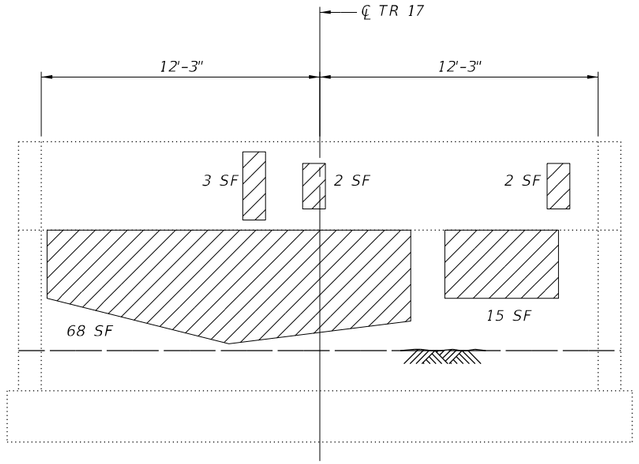
EAST ABUTMENT
STRUCTURE NO. 068-0036
SHEET 24 OF 29 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(68-5HB-1,2)BRR,BY,D	MONTGOMERY	122	78
		CONTRACT NO. 72A59		
	ILLINOIS	FED. AID PROJECT		



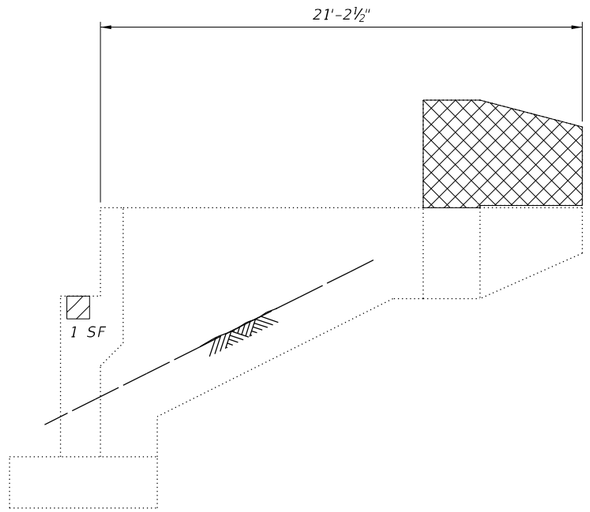
W. ABUT. ELEVATION

(Looking North)



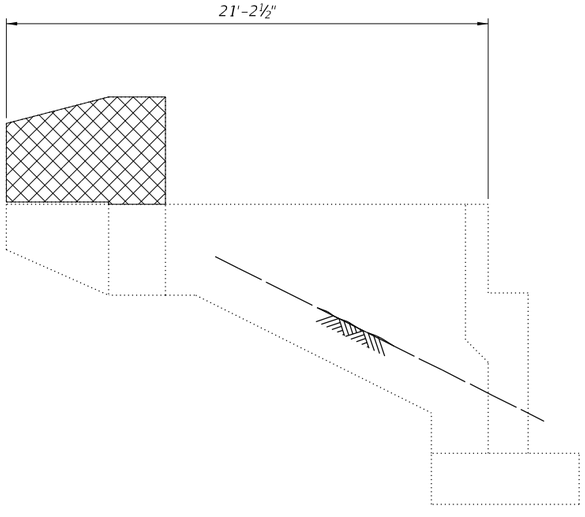
W. ABUT. ELEVATION

(Looking West)



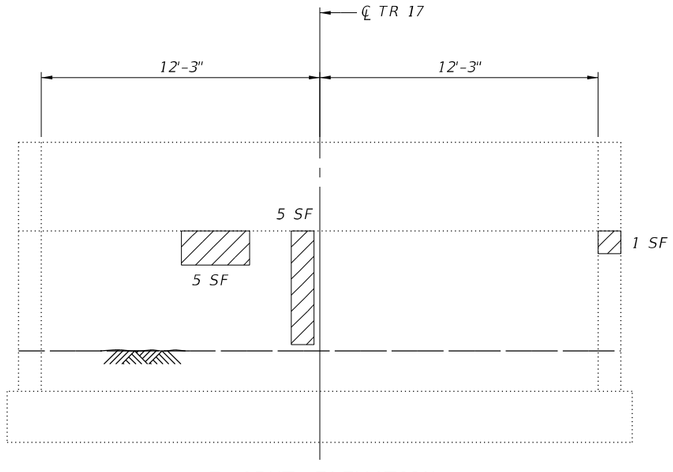
W. ABUT. ELEVATION

(Looking South)



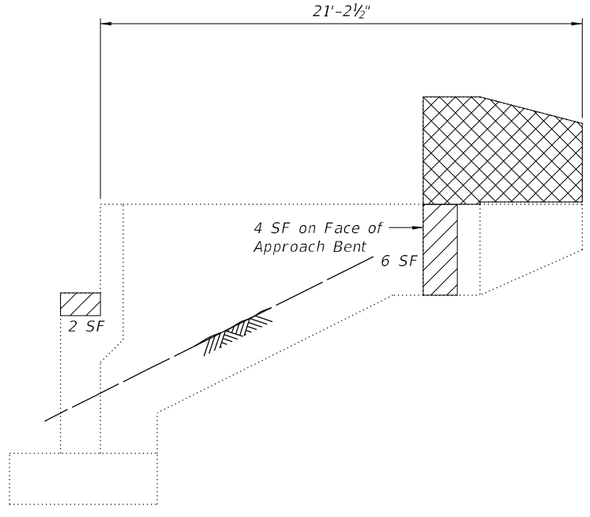
E. ABUT. ELEVATION

(Looking South)



E. ABUT. ELEVATION

(Looking East)



E. ABUT. ELEVATION

(Looking North)

LEGEND

Structural Repair of Concrete
(Depth Equal to or Less than 5")

Existing Concrete Removal

Seat width = 1'-9"

BILL OF MATERIAL

ITEM	UNIT	TOTAL
Structural Repair of Concrete (Depth Equal to or Less than 5")	Sq. Ft.	115

MODEL: Default
FILE NAME: S:\2021\21IL057 - PTB 200-32 D6 - Fehr Graham - Various Ph I-III\WO 4 I-55 Bridge Redeck 068-0036\CADD\CADD Sheets\0680036-72A59-025-Abutment Repairs.dgn

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QUIGG ENGINEERING INC

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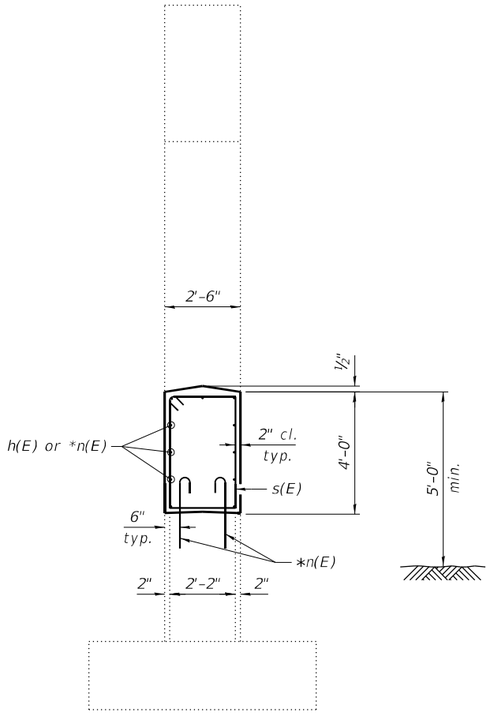
PLOT DATE =	CHECKED - MDC	REVISED -	

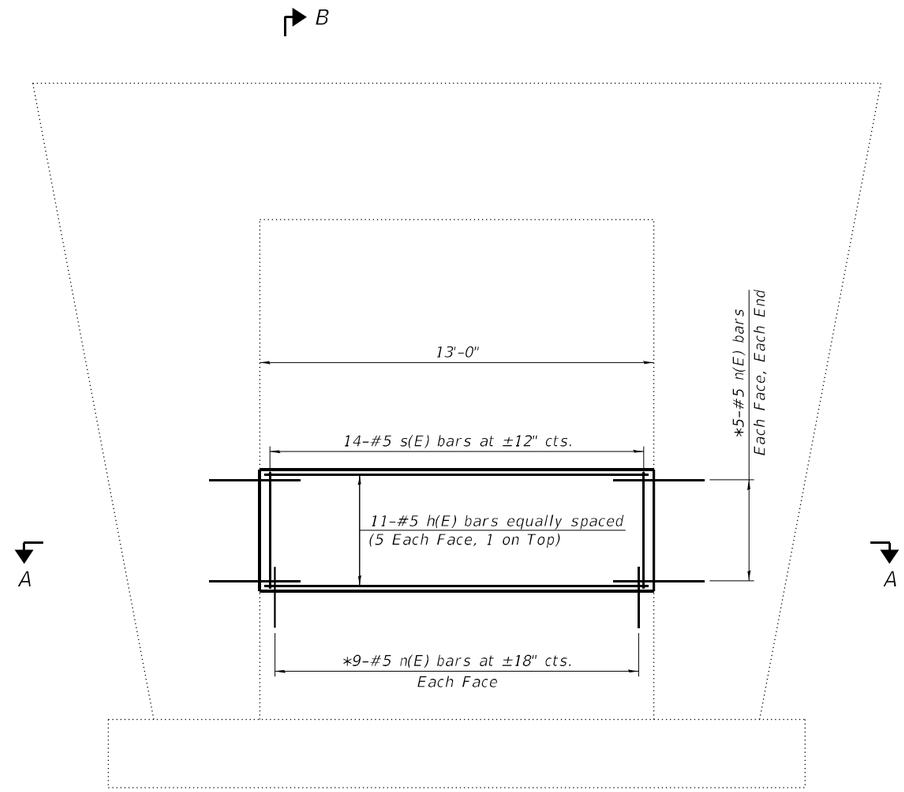
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ABUTMENT REPAIRS
STRUCTURE NO. 068-0036
SHEET 25 OF 29 SHEETS

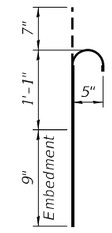
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(68-5HB-1,2)BRR,BY,D	MONTGOMERY	122	79
		CONTRACT NO. 72A59		
	ILLINOIS	FED. AID PROJECT		



SECTION B-B



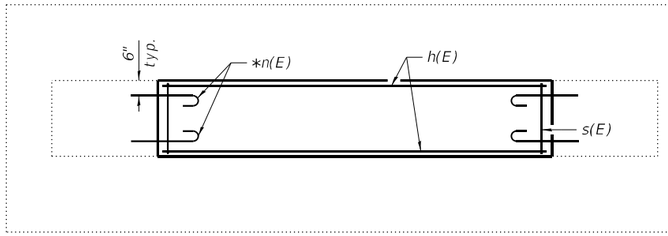
B ELEVATION



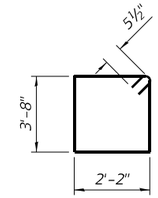
BAR n(E)

* Drill and epoxy grout bars. 9" min. embedment. Space to miss existing bars.

Note:
Drill and epoxy grout bars according to Article 584 of the Standard Specifications. The cost of drilling and epoxy grouting bars shall be included with Reinforcement Bars, Epoxy Coated.



SECTION A-A



BAR s(E)

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h(E)	11	#5	12'-8"	
n(E)	38	#5	2'-5"	
s(E)	14	#5	12'-7"	
Concrete Structures			Cu. Yd.	4.9
Reinforcement Bars, Epoxy Coated			Pound	430

QUIGG ENGINEERING INC

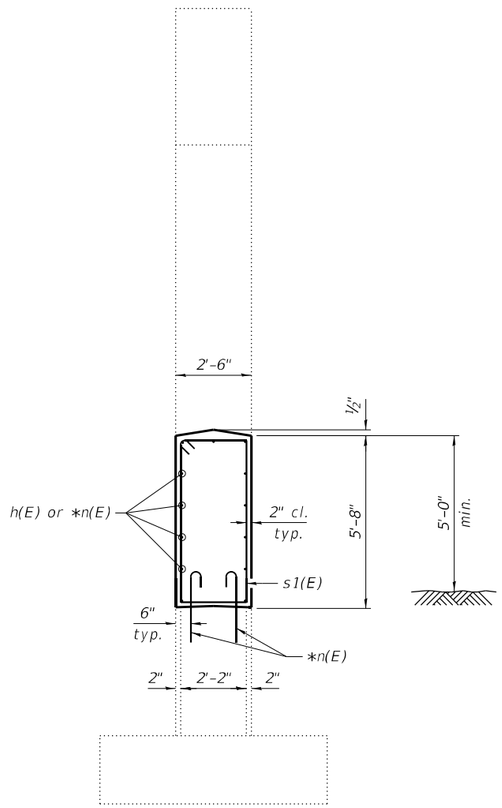
USER NAME = Structures2	DESIGNED - ZLD	REVISED -	
0680036-72A59-026-Pier 1.dgn	CHECKED - RPW	REVISED -	
PLOT SCALE = 5:0.0000 ':" / in.	DRAWN - JDC	REVISED -	
PLOT DATE =	CHECKED - MDC	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

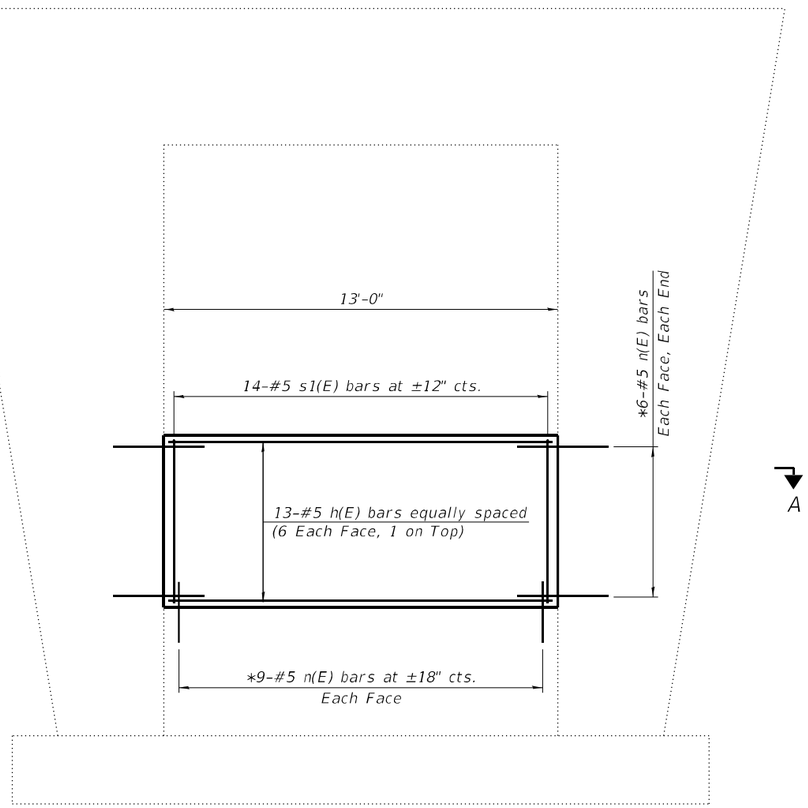
PIER 1
STRUCTURE NO. 068-0036
SHEET 26 OF 29 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(68-5HB-1,2)BRR,BY,D	MONTGOMERY	122	80
		CONTRACT NO. 72A59		
		ILLINOIS	FED. AID PROJECT	

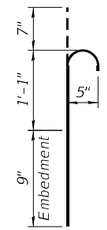
MODEL: Default
FILE NAME: S:\2021\21IL057 - PTB 200-32 D6 - Fehr Graham - Various Ph III\WO 4 I-55 Bridge Redeck 068-0036\CADD\CADD Sheets\0680036-72A59-026-Pier 1.dgn
10/8/2024 3:08:42 PM



SECTION B-B



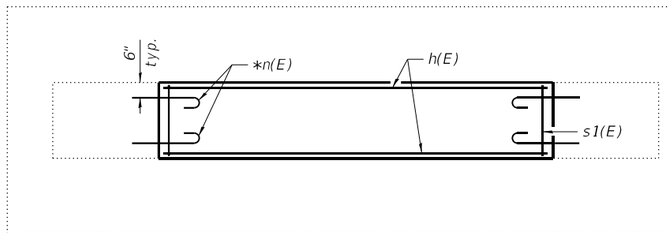
ELEVATION



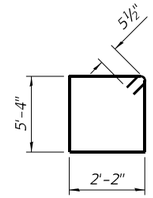
BAR n(E)

* Drill and epoxy grout bars. 9" min. embedment. Space to miss existing bars.

Note:
Drill and epoxy grout bars according to Article 584 of the Standard Specifications. The cost of drilling and epoxy grouting bars shall be included with Reinforcement Bars, Epoxy Coated.



SECTION A-A



BARS s1(E)

BILL OF MATERIAL

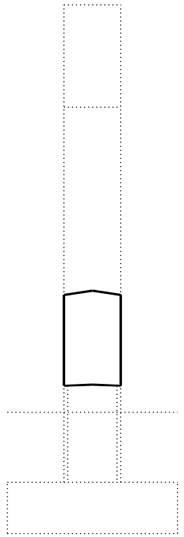
Bar	No.	Size	Length	Shape
h(E)	13	#5	12'-8"	
n(E)	42	#5	2'-5"	
s1(E)	14	#5	15'-11"	
Concrete Structures			Cu. Yd.	6.9
Reinforcement Bars, Epoxy Coated			Pound	510

MODEL: Default
FILE NAME: S:\2021\21L057 - PTB 200-32 D6 - Fehr Graham - Various Ph II\WO 4 I-55 Bridge Redeck 068-0036\CADD\CADD Sheets\0680036-72A59-027-Pier 2.dgn
10/8/2024 3:08:43 PM

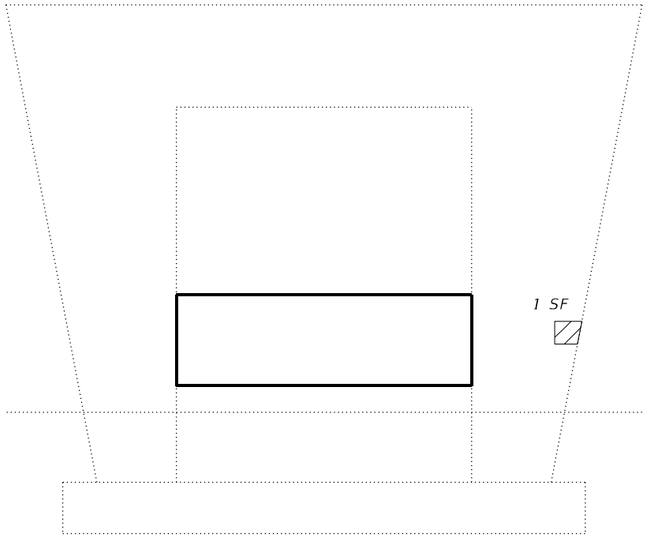
QUIGG ENGINEERING INC

USER NAME = Structures2	DESIGNED - ZLD	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PIER 2 STRUCTURE NO. 068-0036
0680036-72A59-027-Pier 2.dgn	CHECKED - RPW	REVISED -		SHEET 27 OF 29 SHEETS
PLOT SCALE = 5:0.0000 ':" / in.	DRAWN - JDC	REVISED -		
PLOT DATE =	CHECKED - MDC	REVISED -		

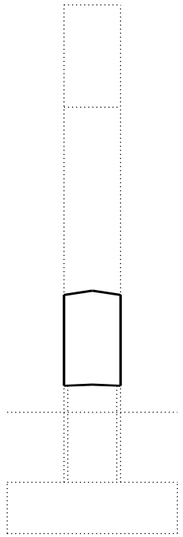
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(68-5HB-1,2)BRR,BY,D	MONTGOMERY	122	81
		CONTRACT NO. 72A59		
	ILLINOIS	FED. AID PROJECT		



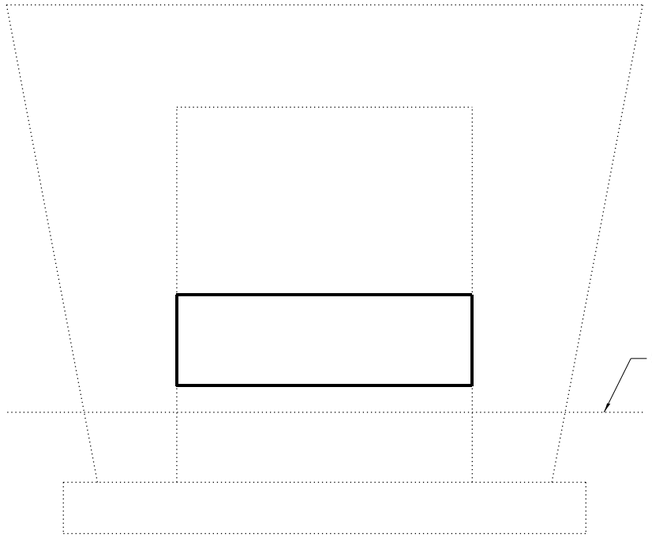
PIER 1 ELEVATION
(Looking North)



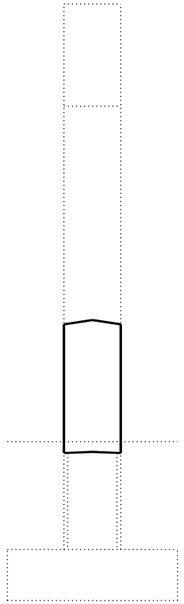
PIER 1 ELEVATION
(Looking West)



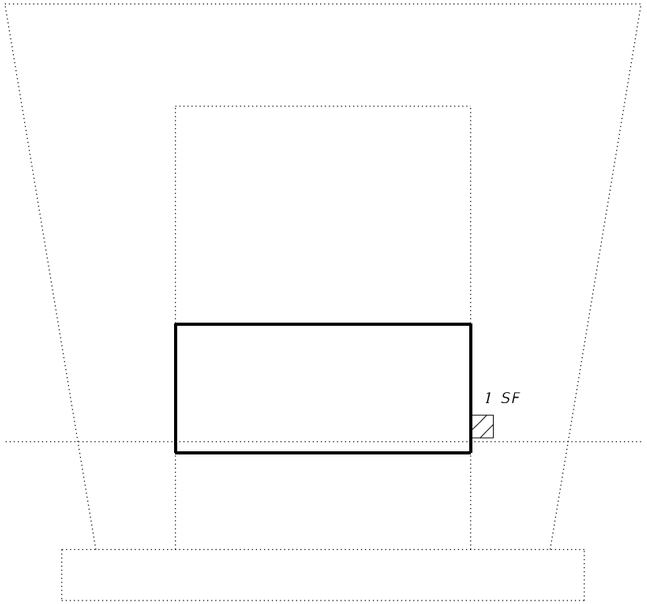
PIER 1 ELEVATION
(Looking South)



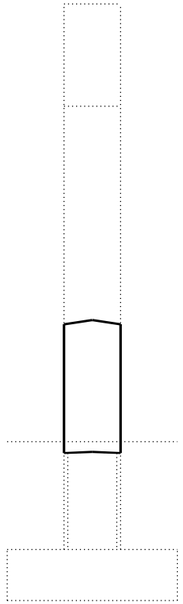
PIER 1 ELEVATION
(Looking East)



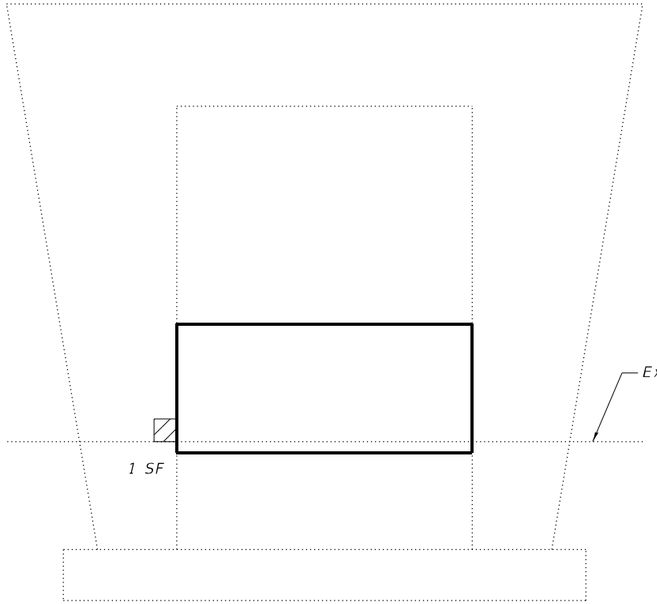
PIER 2 ELEVATION
(Looking North)



PIER 2 ELEVATION
(Looking West)



PIER 2 ELEVATION
(Looking South)



PIER 2 ELEVATION
(Looking East)

LEGEND

Structural Repair of Concrete
(Depth Equal to or Less than 5")

BILL OF MATERIAL

ITEM	UNIT	TOTAL
Structural Repair of Concrete (Depth Equal to or Less than 5")	Sq. Ft.	3

MODEL: Default
FILE NAME: S:\2021211L057 - PTB 200-32 D6 - Fehr Graham - Various Ph I-IIW0 4 I-55 Bridge Redeck 068-0036\CADD\CADD Sheets\0680036-72A59-028-Pier Repairs.dgn
10/8/2024 3:08:44 PM

QUIGG ENGINEERING INC

USER NAME = Structures2	DESIGNED - ZLD	REVISED -	
0680036-72A59-028-Pier Repairs.dgn	CHECKED - RPW	REVISED -	
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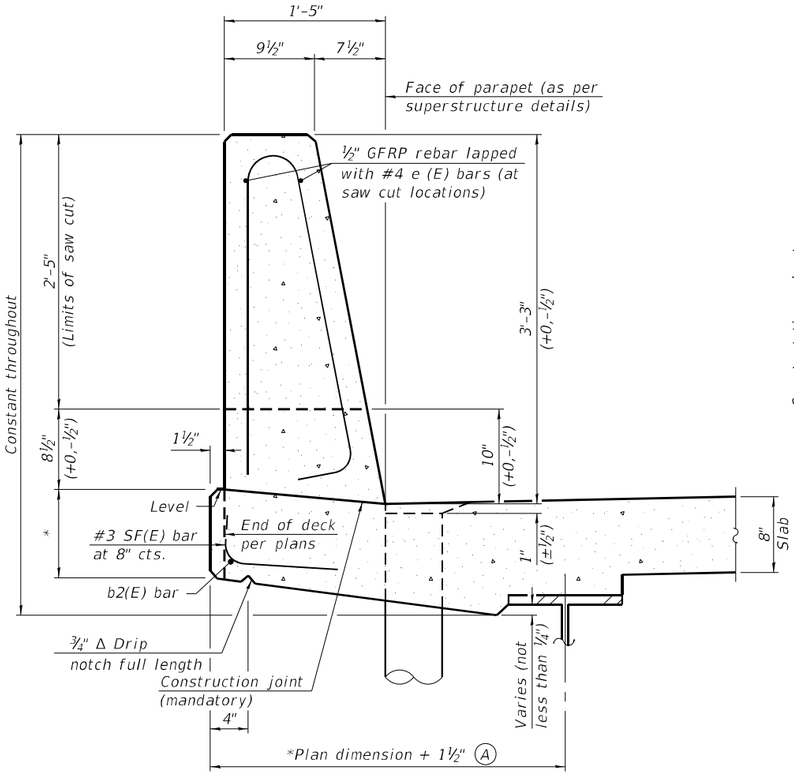
PLOT DATE =	CHECKED - MDC	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

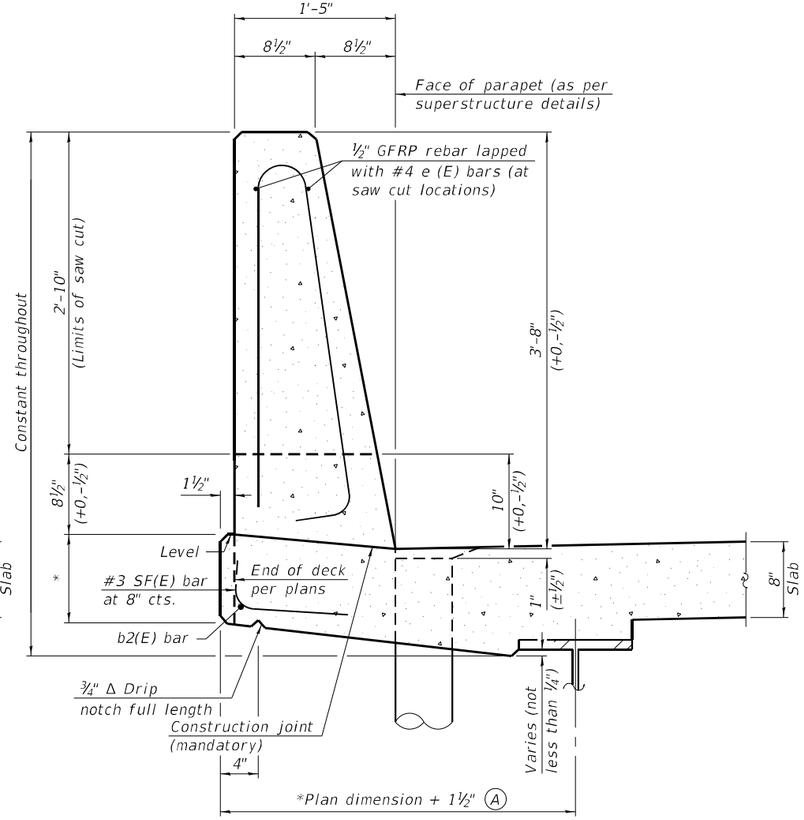
PIER REPAIRS
STRUCTURE NO. 068-0036
SHEET 28 OF 29 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(68-5HB-1,2)BRR,BY,D	MONTGOMERY	122	82
		CONTRACT NO. 72A59		
	ILLINOIS	FED. AID PROJECT		



39" CONSTANT-SLOPE PARAPET SECTION

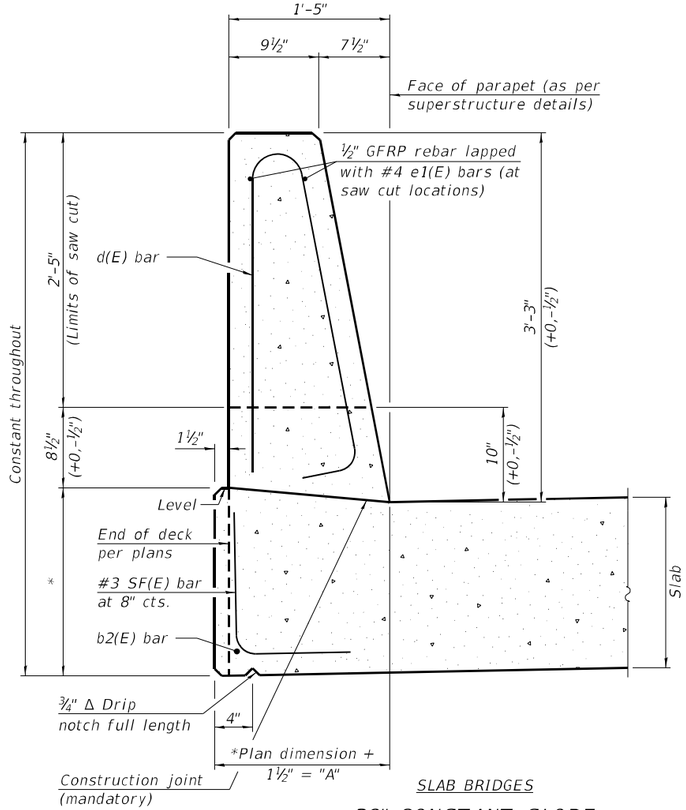
(Showing dimensions, d(E), and ½" Ø GFRP rebar)



44" CONSTANT-SLOPE PARAPET SECTION

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

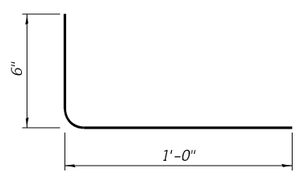
*See Superstructure Details.



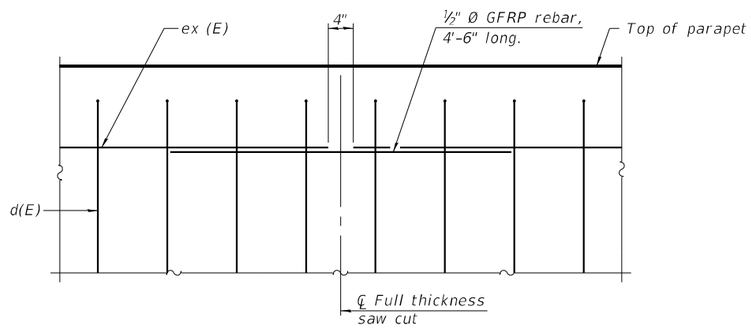
SLAB BRIDGES

39" CONSTANT-SLOPE PARAPET SECTION

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



SF(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 and slab superstructures shown. Other superstructure types similar.

MODEL: Default
FILE NAME: S:\2021\21IL057 - PTB 200-32 D6 - Fehr Graham - Various Ph HIWO 4 I-55 Bridge Redeck 068-0036\CADD\CADD Sheets\0680036-72A59-029-Concrete Parapet Slipforming Option.dgn

10/8/2024 3:08:45 PM

QUIGG ENGINEERING INC

USER NAME = Structures2	DESIGNED - ZLD	REVISED -	
0680036-72A59-029-Concrete Parapet Slipforming Option.dgn	CHECKED - RPW	REVISED -	
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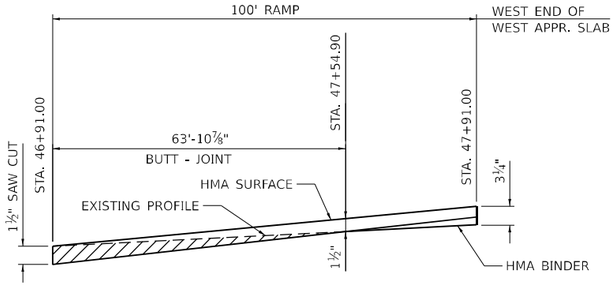
PLOT DATE =	CHECKED - MDC	REVISED -	

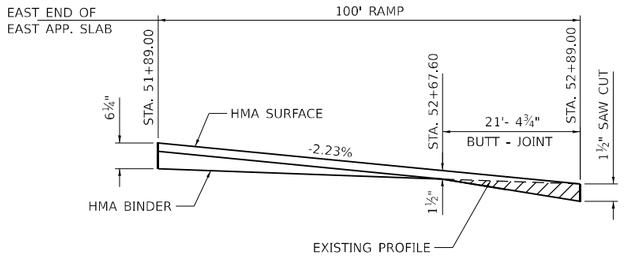
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CONCRETE PARAPET SLIPFORMING OPTION
STRUCTURE NO. 068-0036

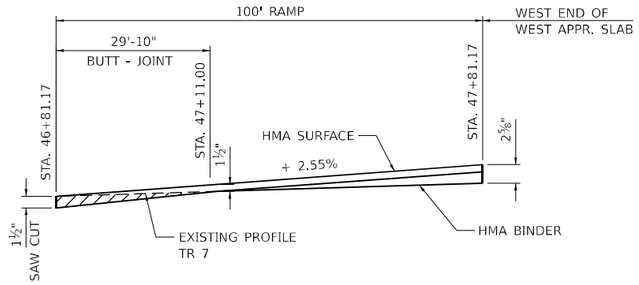
SHEET 29 OF 29 SHEETS

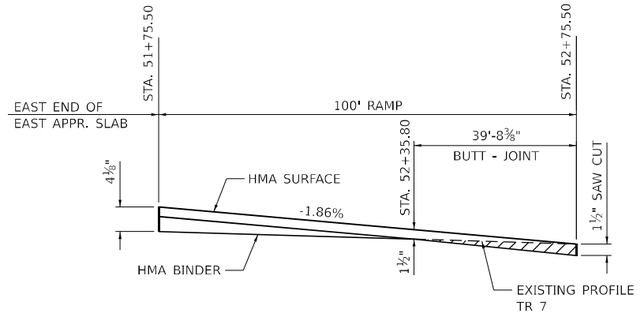
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(68-5HB-1,2)BRR,BY,D	MONTGOMERY	122	83
		CONTRACT NO. 72A59		
	ILLINOIS	FED. AID PROJECT		





BUTT - JOINT DETAILS
TR 17





BUTT - JOINT DETAILS
TR 7

MODEL: TR7 - Plan 1 [Sheet]
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FEHR GRAHAM
ENGINEERING & ENVIRONMENTAL

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	DRAWN - MCE	REVISED -
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PLOT DATE = 8/14/2024	DATE - 1/4/2024	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

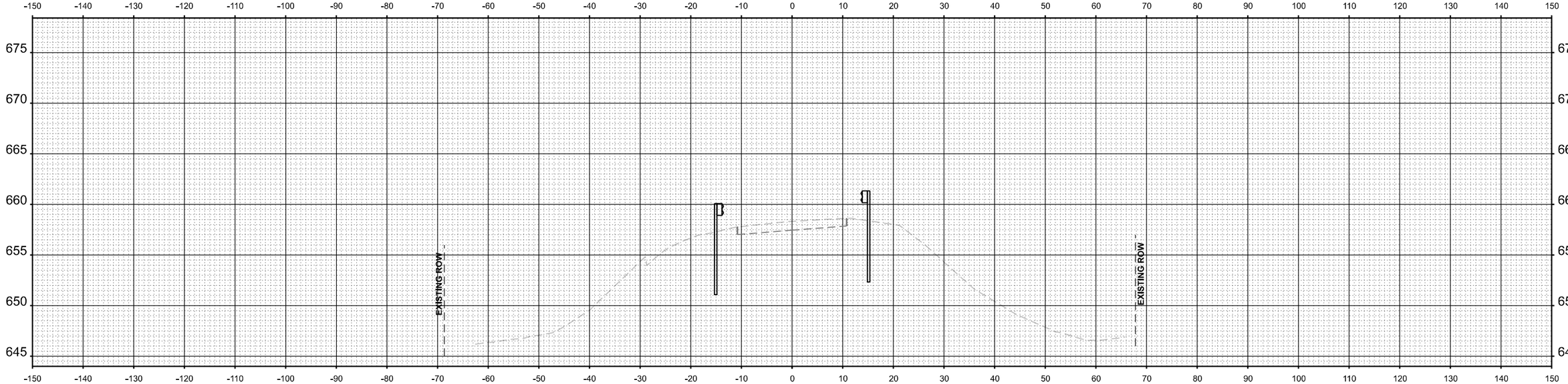
BUTT JOINT DETAILS
TR 17 & TR 7

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

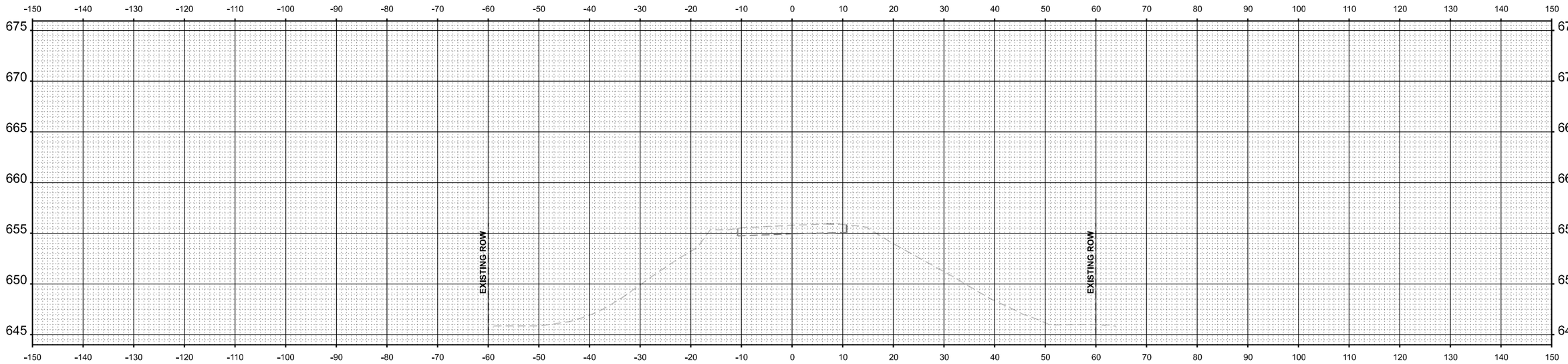
F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(68-5HB-1,2)BRR,BY,D	MONTGOMERY	122	84
		CONTRACT NO. 72A59		
	ILLINOIS FED. AID PROJECT			

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

BY	DATE



STA 43+50.00



STA 43+00.00

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

BY	DATE

MODEL: TR7 - 43+00.00 [Sheet]
FILE NAME: G:\ORD\212-718\CSN068-0035 Cross Section.dgn

FEHR GRAHAM
ENGINEERING & ENVIRONMENTAL

USER NAME = mescatell	DESIGNED -	REVISED -	
	DRAWN -	REVISED -	
PLOT SCALE = 0.16666633 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 8/14/2024	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

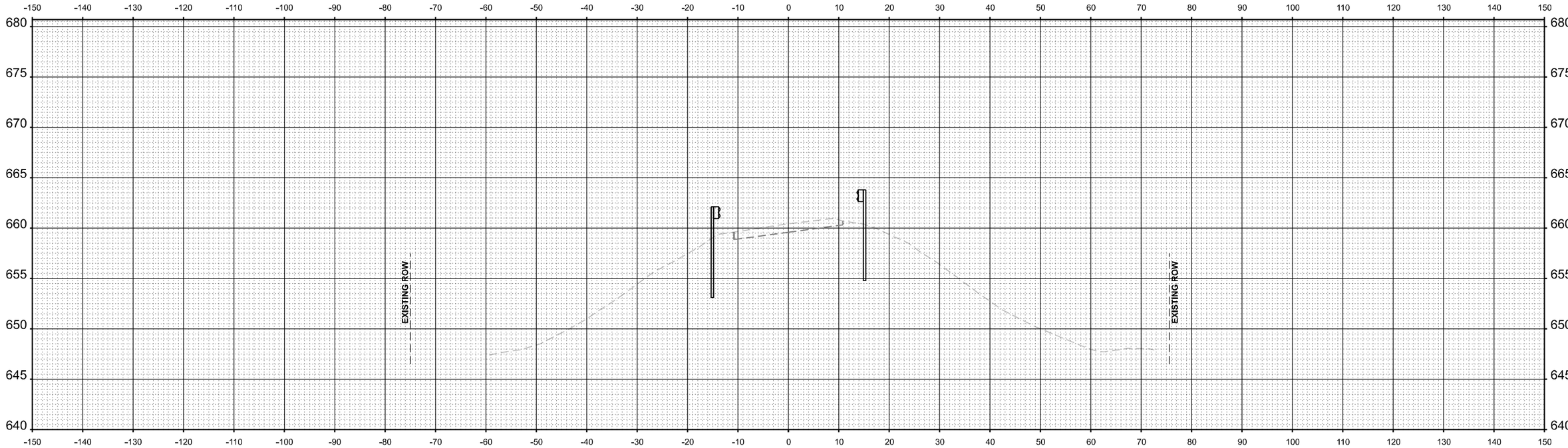
TR 7
CROSS SECTIONS

SCALE: 1"=10' | SHEET 1 OF 16 SHEETS | STA. | TO STA.

F.A. I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(68-5HB-1,2)BRR, BY,D	MONTGOMERY	122	85
		CONTRACT NO. 72A59		
	ILLINOIS	FED. AID PROJECT		

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

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



STA 44+00.00

MODEL: TR7 - 44+00.00 [Sheet]
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	DRAWN -	REVISED -
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PLOT DATE = 8/14/2024	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TR7
CROSS SECTIONS

SCALE: 1"=10' | SHEET 2 OF 16 SHEETS | STA. | TO STA.

F.A. I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(68-5HB-1,2)BRR, BY,D	MONTGOMERY	122	86
		CONTRACT NO. 72A59		
	ILLINOIS	FED. AID PROJECT		

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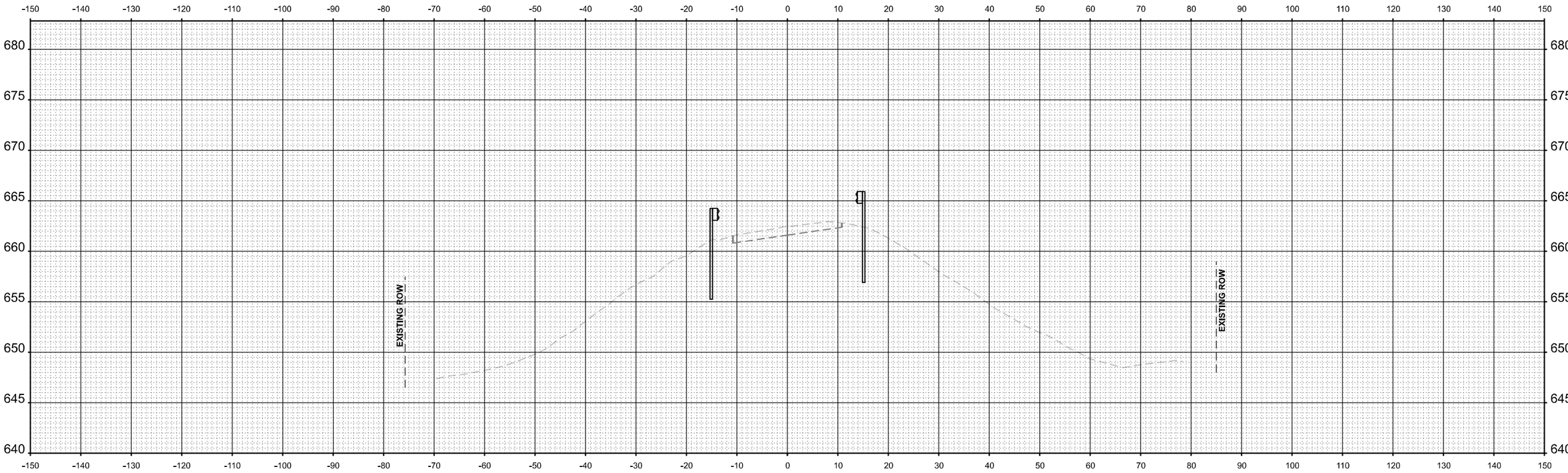
	PLOTTED		
	TEMPLATE		
NOTE BOOK	AREAS		
NO.	AREAS CHECKED		



STA 44+50.00

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

MODEL: TR7 - 44+50.00 (Sheet)
FILE NAME: G:\ORD\212-718\CSNS068-0035 Cross Section.dgn

FEHR GRAHAM
ENGINEERING & ENVIRONMENTAL
Illinois design firm no. 184-003809

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	DRAWN -	REVISED -	
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PLOT DATE = 8/14/2024	DATE -	REVISED -	

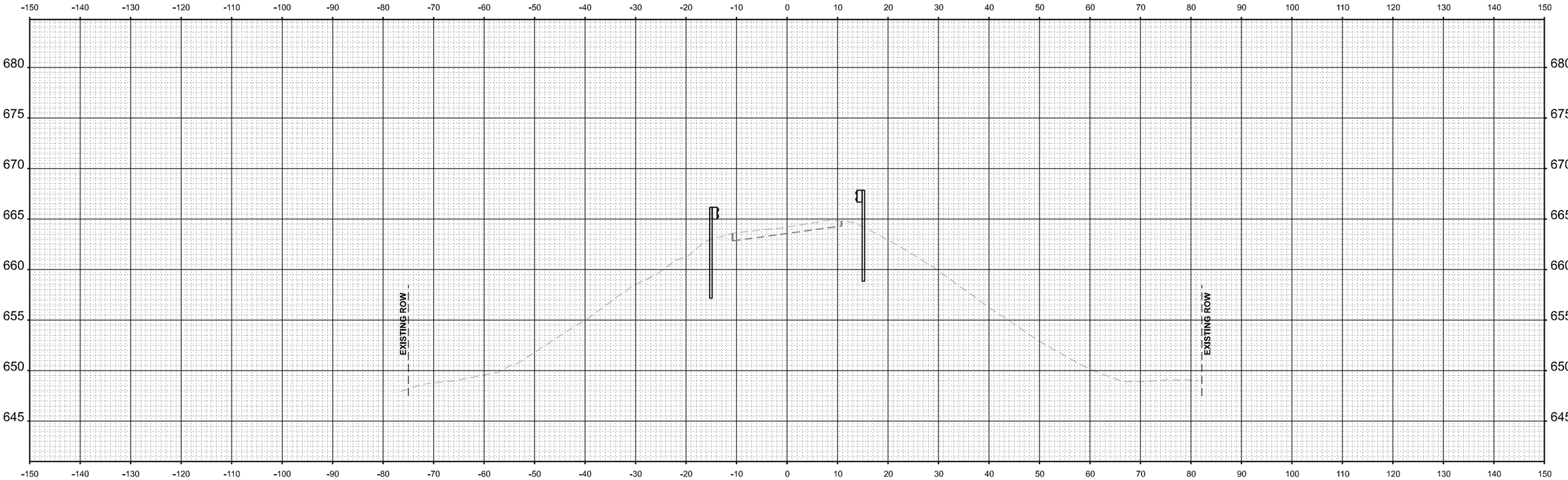
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TR 7
CROSS SECTIONS

SCALE: 1"=10' | SHEET 3 OF 16 SHEETS | STA. | TO STA.

F.A. I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(68-5HB-1,2)BRR, BY,D	MONTGOMERY	122	87
		CONTRACT NO. 72A59		
	ILLINOIS	FED. AID PROJECT		

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



STA 45+00.00

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

MODEL: TR7 - 45+00.00 [Sheet]
FILE NAME: G:\ORD\212-718\CSN068-A035 Cross Section.dgn

FEHR GRAHAM
ENGINEERING & ENVIRONMENTAL
Illinois design firm no. 184-003929

USER NAME = mescatel	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 0.16666633 ' / In.	CHECKED -	REVISED -
PLOT DATE = 8/14/2024	DATE -	REVISED -

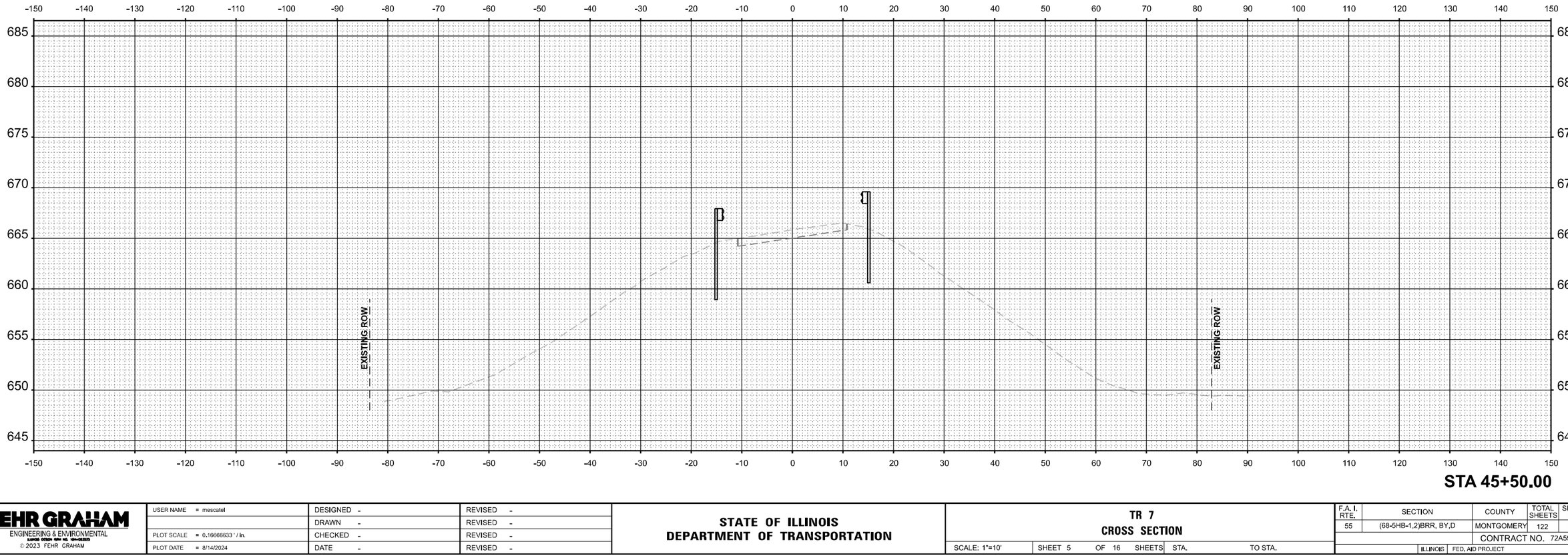
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TR 7
CROSS SECTIONS

SCALE: 1"=10' | SHEET 4 OF 16 SHEETS | STA. | TO STA.

F.A. I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(68-5HB-1,2)BRR, BY,D	MONTGOMERY	122	88
		CONTRACT NO. 72A59		
	ILLINOIS	FED. AID PROJECT		

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



STA 45+50.00

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

MODEL: TR7 - 45+50.00 [Sheet]
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FEHR GRAHAM
ENGINEERING & ENVIRONMENTAL

USER NAME = mescatel	DESIGNED -	REVISED -
	DRAWN -	REVISED -
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PLOT DATE = 8/14/2024	DATE -	REVISED -

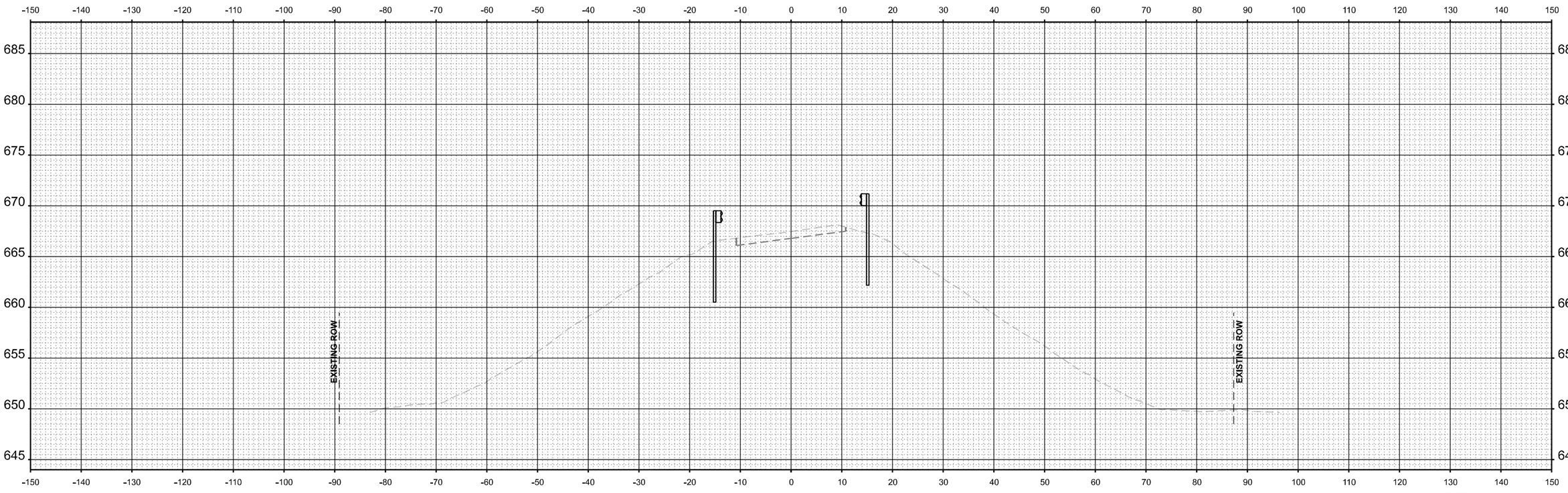
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TR 7
CROSS SECTION

SCALE: 1"=10' | SHEET 5 OF 16 SHEETS | STA. | TO STA.

F.A. I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(68-5HB-1,2)BRR, BY,D	MONTGOMERY	122	89
		CONTRACT NO. 72A59		
	ILLINOIS	FED. AID PROJECT		

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



STA 46+00.00

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

MODEL: TR7 - 46+00.00 [Sheet]
FILE NAME: G:\ORD\212\-718\CSN068-0035 Cross Section.dgn

FEHR GRAHAM
ENGINEERING & ENVIRONMENTAL

USER NAME = mescatel	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 0.16666633 ' / In.	CHECKED -	REVISED -
PLOT DATE = 8/14/2024	DATE -	REVISED -

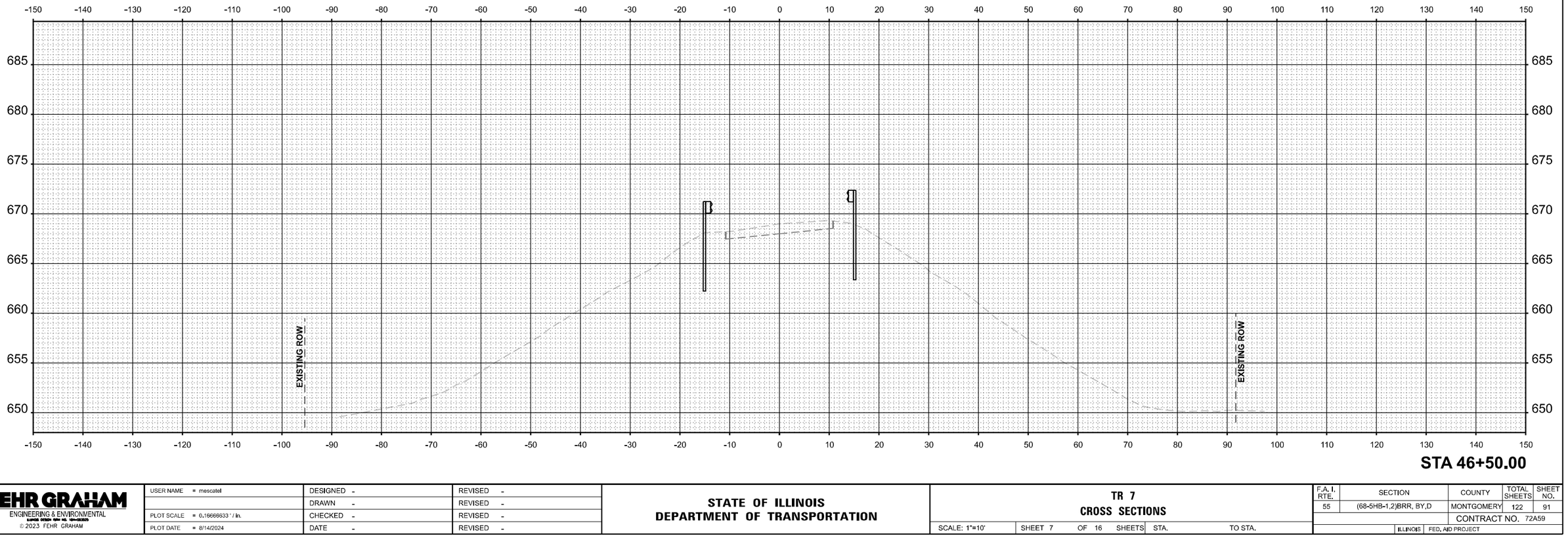
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TR 7
CROSS SECTIONS

SCALE: 1"=10' | SHEET 6 OF 16 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(68-5HB-1,2)BRR, BY,D	MONTGOMERY	122	90
		CONTRACT NO. 72A59		
	ILLINOIS	FED. AID PROJECT		

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



STA 46+50.00

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

MODEL: TR7 - 46+50.00 [Sheet]
FILE NAME: G:\ORD\212-718\CSN068-0035 Cross Section.dgn

FEHR GRAHAM
ENGINEERING & ENVIRONMENTAL
Illinois design firm no. 184-003809

USER NAME = mescatel	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 0.16666633 ' / In.	CHECKED -	REVISED -
PLOT DATE = 8/14/2024	DATE -	REVISED -

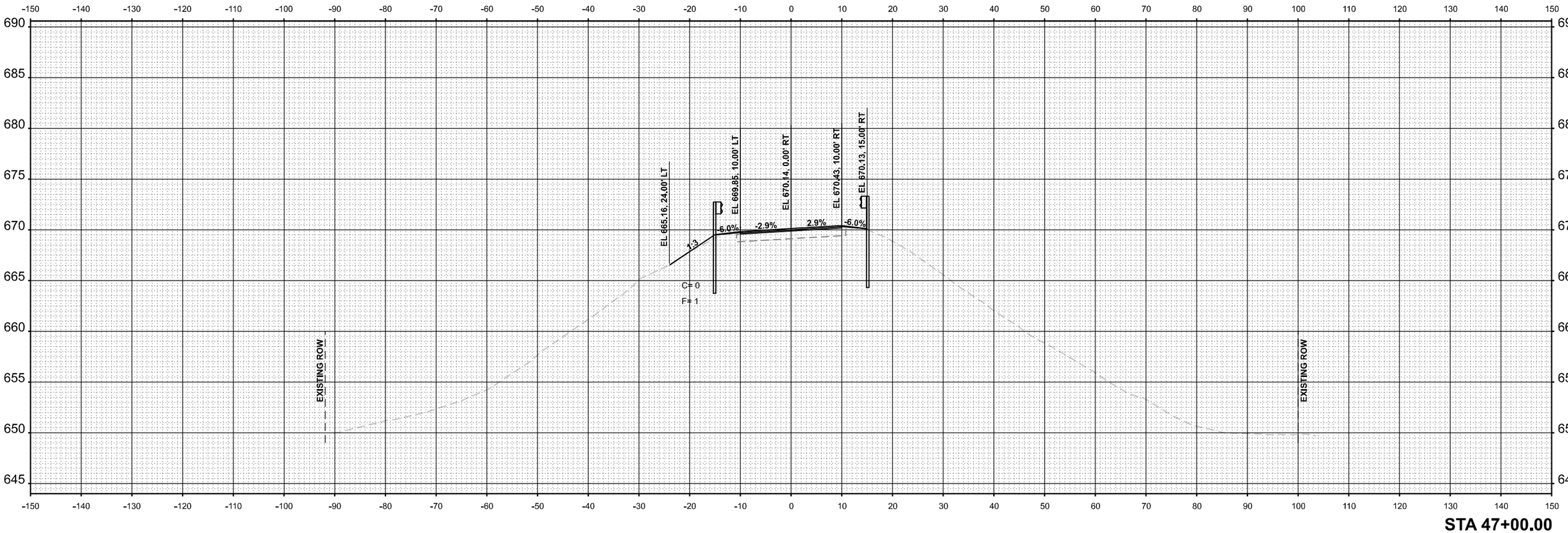
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TR 7
CROSS SECTIONS

SCALE: 1"=10' | SHEET 7 OF 16 SHEETS | STA. | TO STA.

F.A. I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(68-5HB-1,2)BRR, BY,D	MONTGOMERY	122	91
		CONTRACT NO. 72A59		
	ILLINOIS	FED. AID PROJECT		

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



STA 47+00.00

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

MODEL: TR7 - 47+00.00 [Sheet]
FILE NAME: G:\ORD\212 -718\CSN068-0035 Cross Section.dgn

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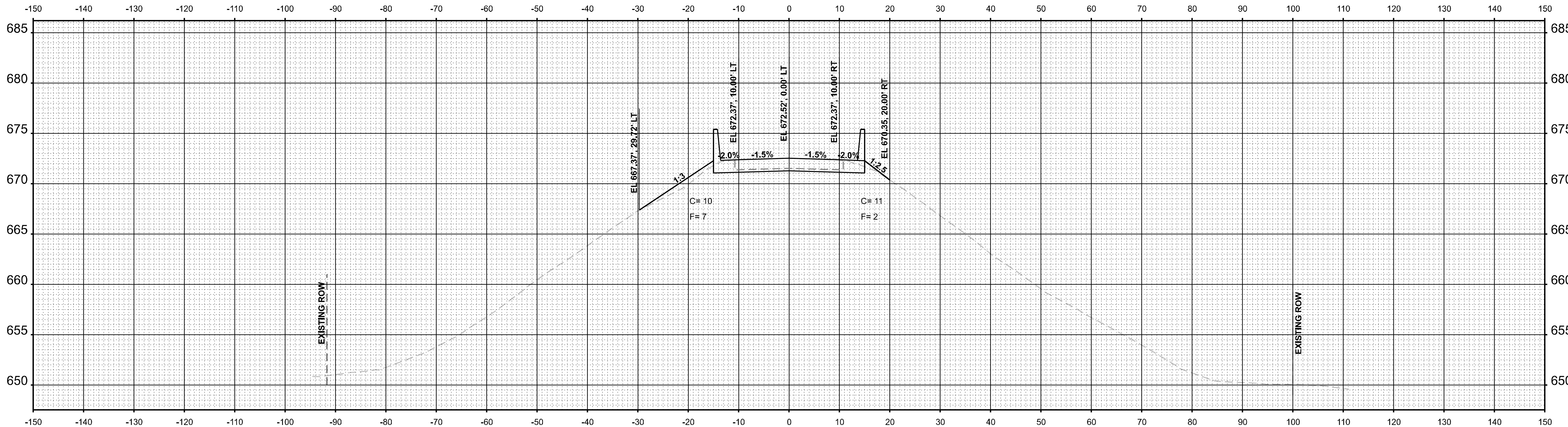
	DRAWN -	REVISED -
PLOT SCALE = 0.16666633 ' / in.	CHECKED -	REVISED -
PLOT DATE = 8/14/2024	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

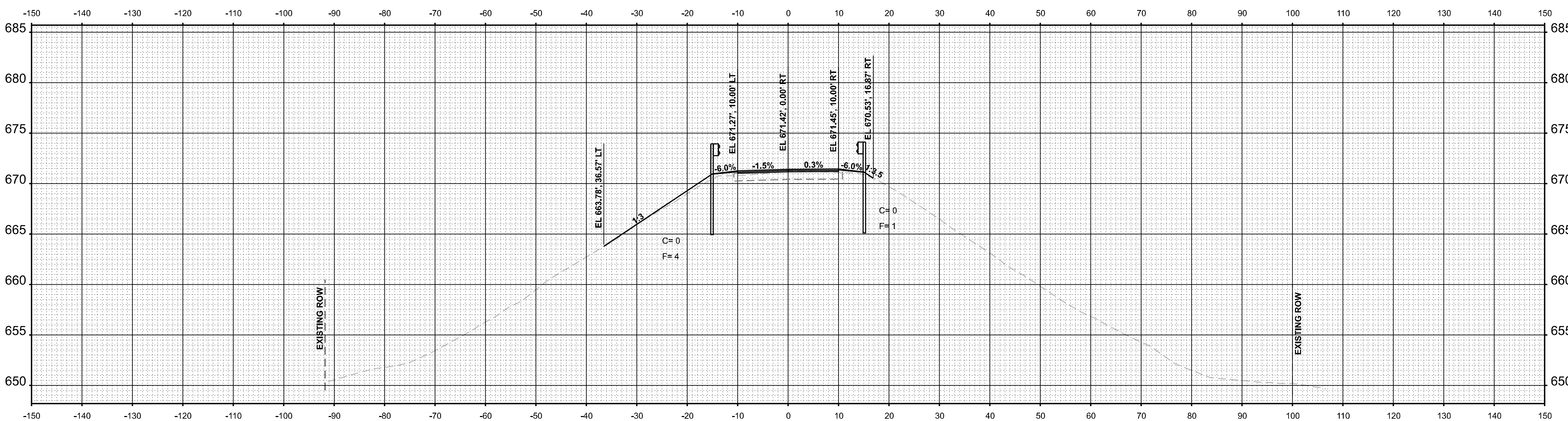
TR 7
CROSS SECTIONS

SCALE: 1"=10' | SHEET 8 OF 16 SHEETS | STA. | TO STA.

F.A. I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(68-5HB-1,2)BRR, BY,D	MONTGOMERY	122	92
		CONTRACT NO. 72A59		
	ILLINOIS	FED. AID PROJECT		



STA 48+00.00



STA 47+50.00

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

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

MODEL: TR7 - 47+50.00 [Sheet]
FILE NAME: G:\ORD\212-7\BCSN068-0035 Cross Section.dgn

FEHR GRAHAM ENGINEERING & ENVIRONMENTAL	USER NAME = mescatel	DESIGNED -	REVISED -
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	PLOT SCALE = 0.16666633 ' / in.	CHECKED -	REVISED -
© 2023 FEHR GRAHAM	PLOT DATE = 8/14/2024	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TR 7
CROSS SECTIONS

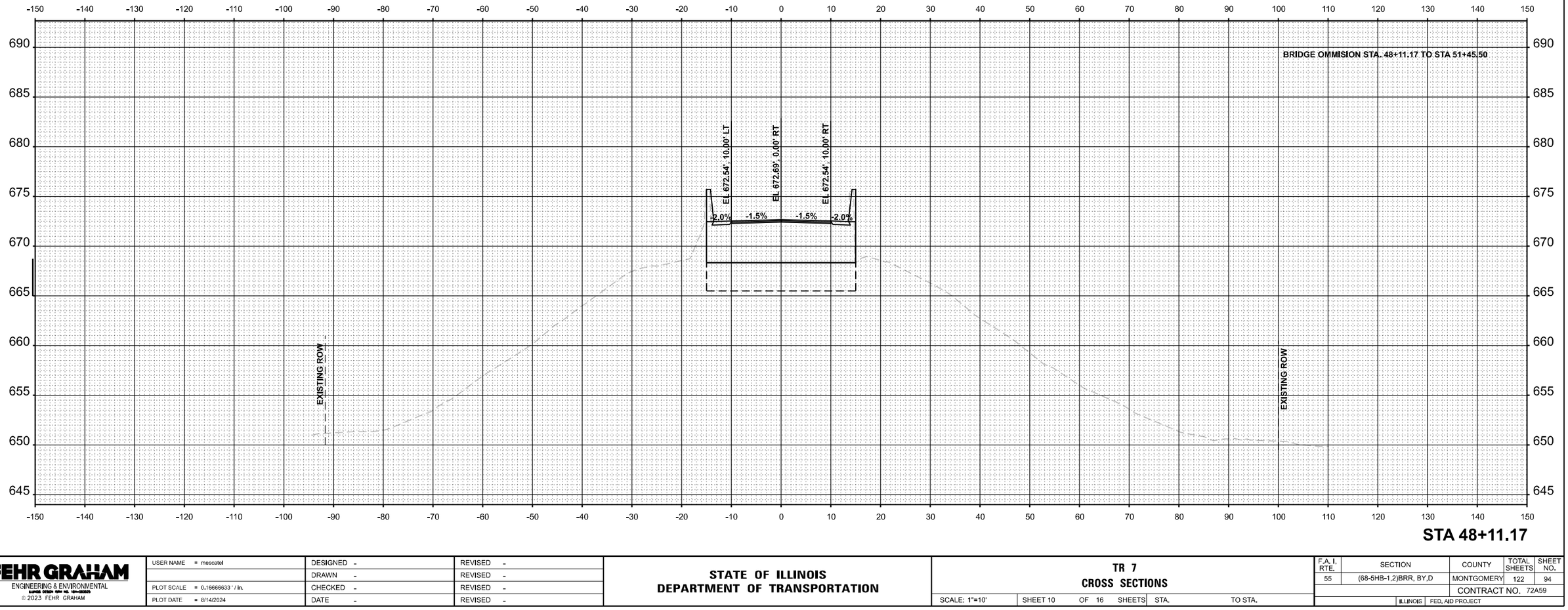
SCALE: 1"=10' | SHEET 9 OF 16 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(68-5HB-1,2)BRR, BY,D	MONTGOMERY	122	93

CONTRACT NO. 72A59

ILLINOIS | FED. AID PROJECT

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



STA 48+11.17

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

MODEL: TR7 - 48+11.17 [Sheet]
FILE NAME: G:\ORD\212 -718\CSN068-0035 Cross Section.dgn

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	DRAWN -	REVISED -
PLOT SCALE = 0.16666633 ' / in.	CHECKED -	REVISED -
PLOT DATE = 8/14/2024	DATE -	REVISED -

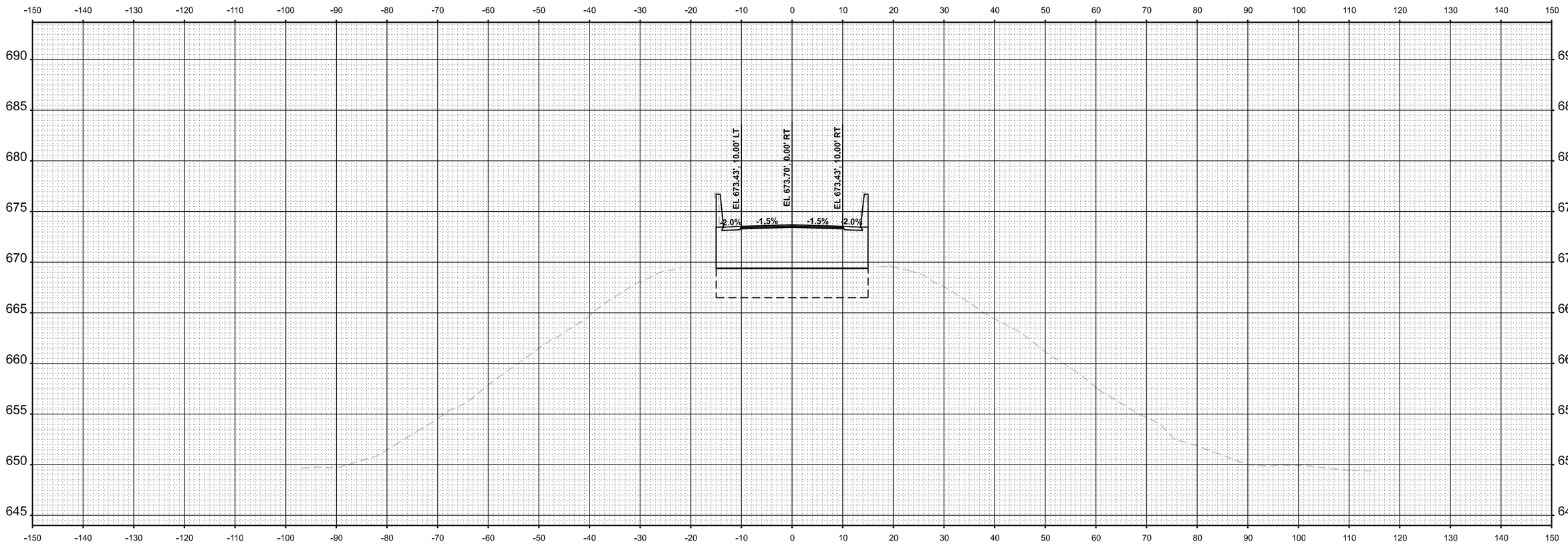
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TR 7
CROSS SECTIONS

SCALE: 1"=10' | SHEET 10 OF 16 SHEETS | STA. | TO STA.

F.A. I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(68-5HB-1,2)BRR, BY,D	MONTGOMERY	122	94
		CONTRACT NO. 72A59		
	ILLINOIS	FED. AID PROJECT		

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



STA 51+45.50

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

MODEL: TR7 - 51+45.50 [Sheet]
FILE NAME: G:\ORD\212 -718\CSN068-0035 Cross Section.dgn

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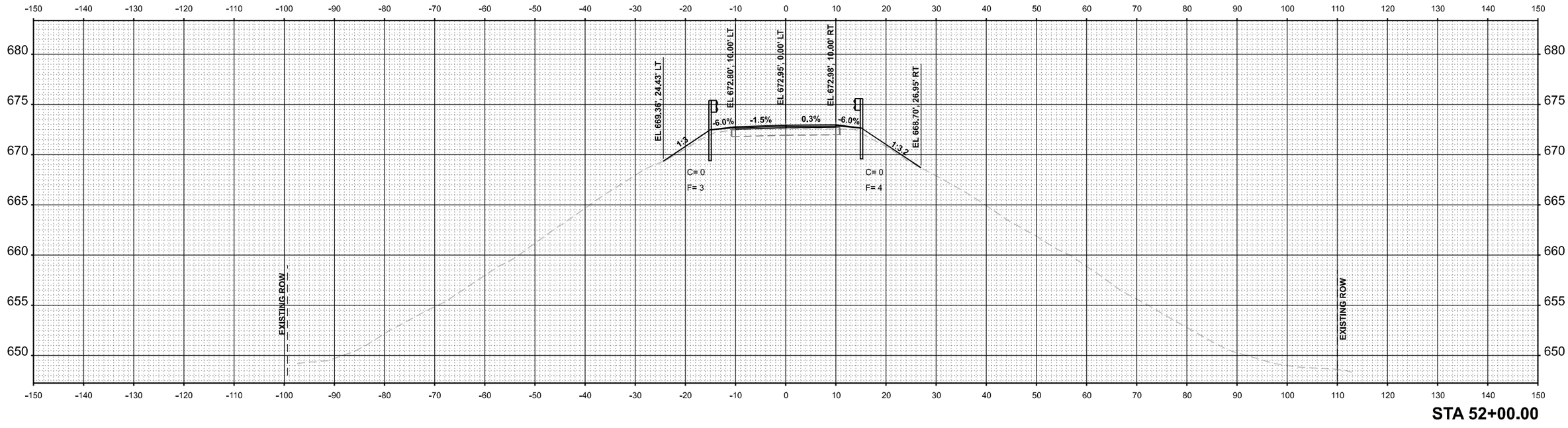
USER NAME = mescatell	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 0.16666633 ' / in.	CHECKED -	REVISED -
PLOT DATE = 8/14/2024	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

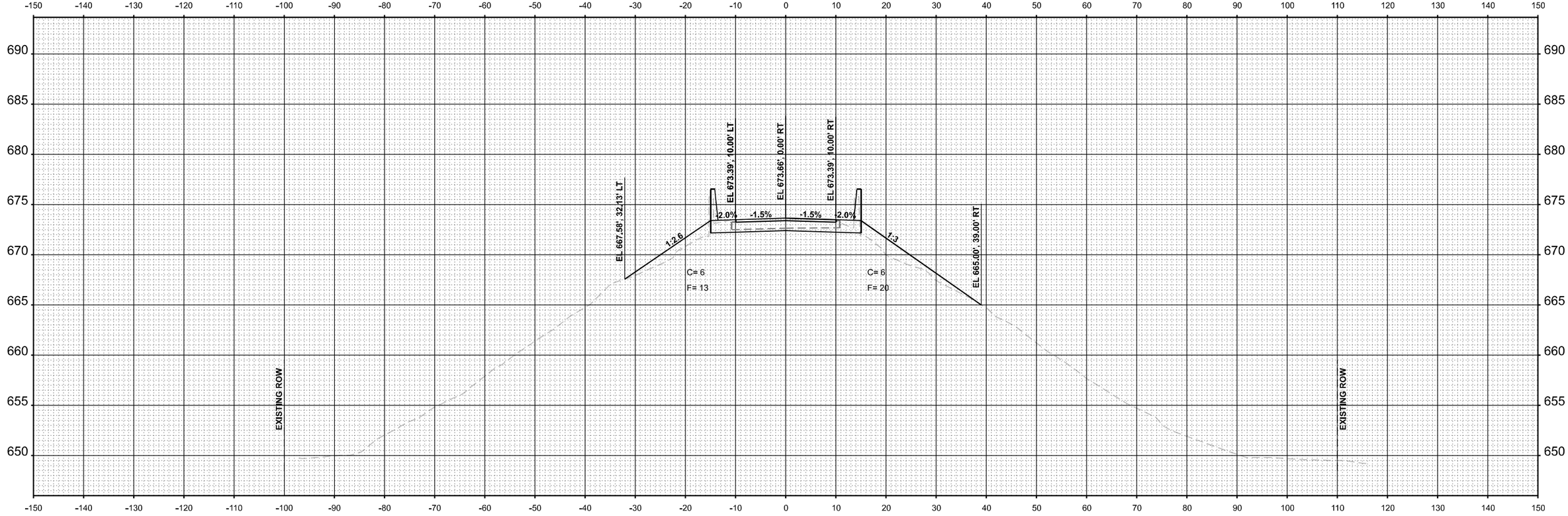
TR 7
CROSS SECTIONS

SCALE: 1"=10' | SHEET 11 OF 16 SHEETS | STA. | TO STA.

F.A. I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(68-5HB-1,2)BRR, BY,D	MONTGOMERY	122	95
		CONTRACT NO. 72A59		
	ILLINOIS	FED. AID PROJECT		



STA 52+00.00



STA 51+50.00

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

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

MODEL: TR7 - 51+50.00 [Sheet]
FILE NAME: G:\ORD\212\-718\CSN068-0035 Cross Section.dgn

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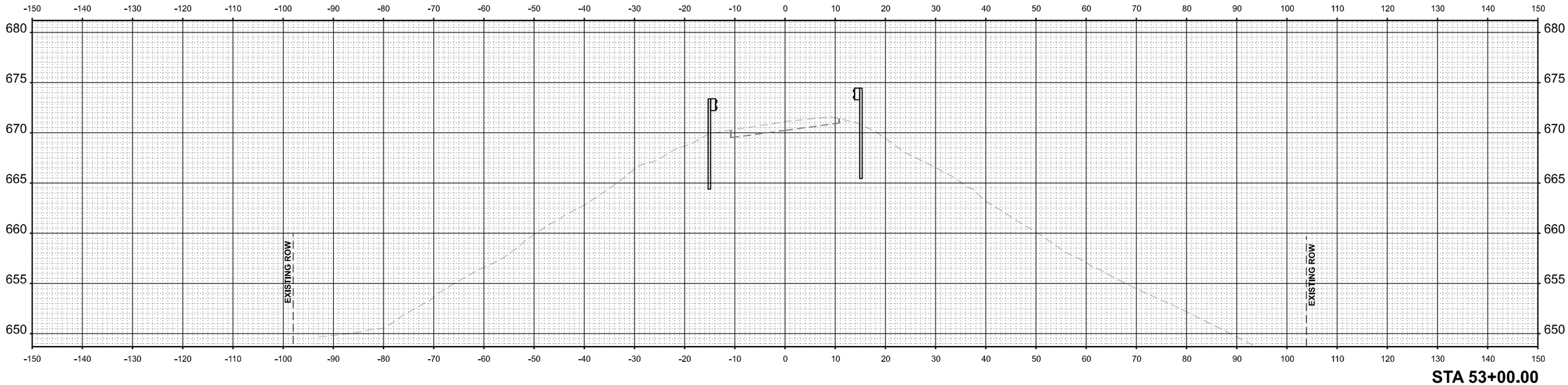
	DRAWN -	REVISED -
PLOT SCALE = 0.16666633 ' / In.	CHECKED -	REVISED -
PLOT DATE = 8/14/2024	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TR 7
CROSS SECTIONS

SCALE: 1"=10' | SHEET 12 OF 16 SHEETS | STA. | TO STA.

F.A. I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(68-5HB-1,2)BRR, BY,D	MONTGOMERY	122	96
		CONTRACT NO. 72A59		
	ILLINOIS	FED. AID PROJECT		



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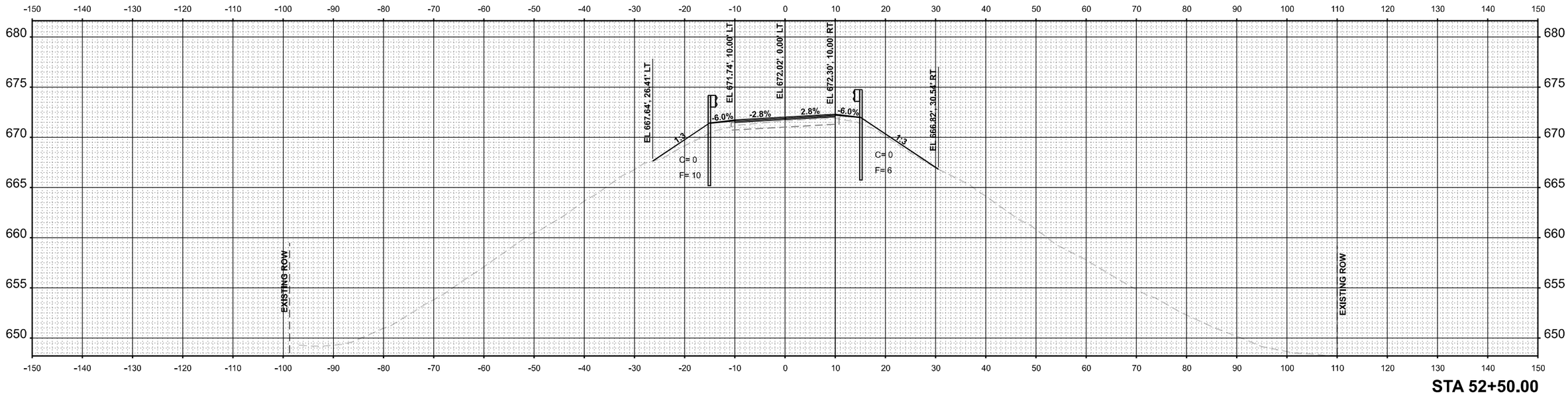

STA 52+50.00

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

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

MODEL: TR7 - 52+50.00 [Sheet]
FILE NAME: G:\ORD\212-718\CSN068-0035 Cross Section.dgn

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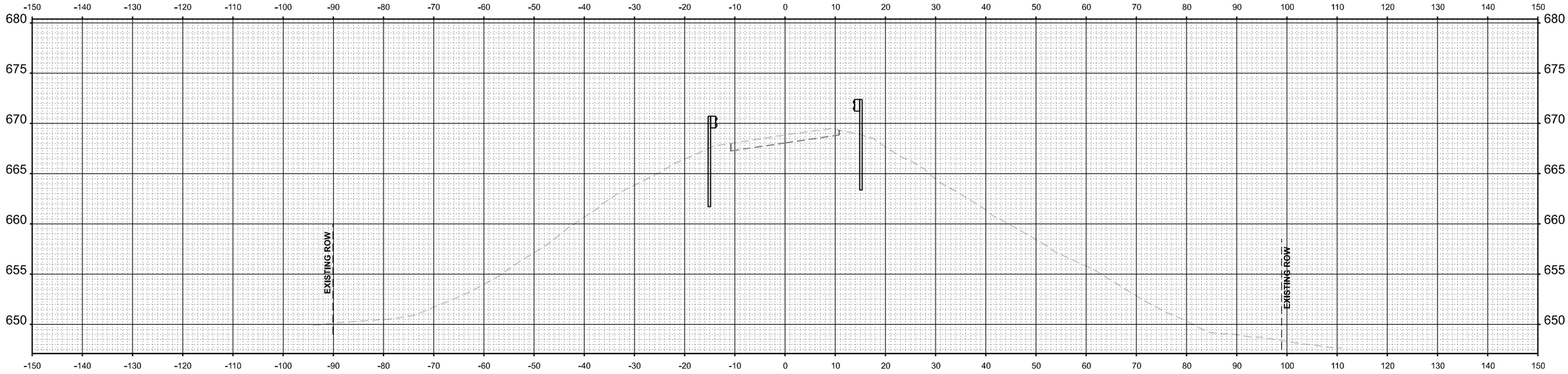
	DRAWN -	REVISED -
PLOT SCALE = 0.16666633 ' / In.	CHECKED -	REVISED -
PLOT DATE = 8/14/2024	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TR 7
CROSS SECTIONS

SCALE: 1"=10' | SHEET 13 OF 16 SHEETS | STA. | TO STA.

F.A. I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(68-5HB-1,2)BRR, BY,D	MONTGOMERY	122	97
		CONTRACT NO. 72A59		
	ILLINOIS	FED. AID PROJECT		



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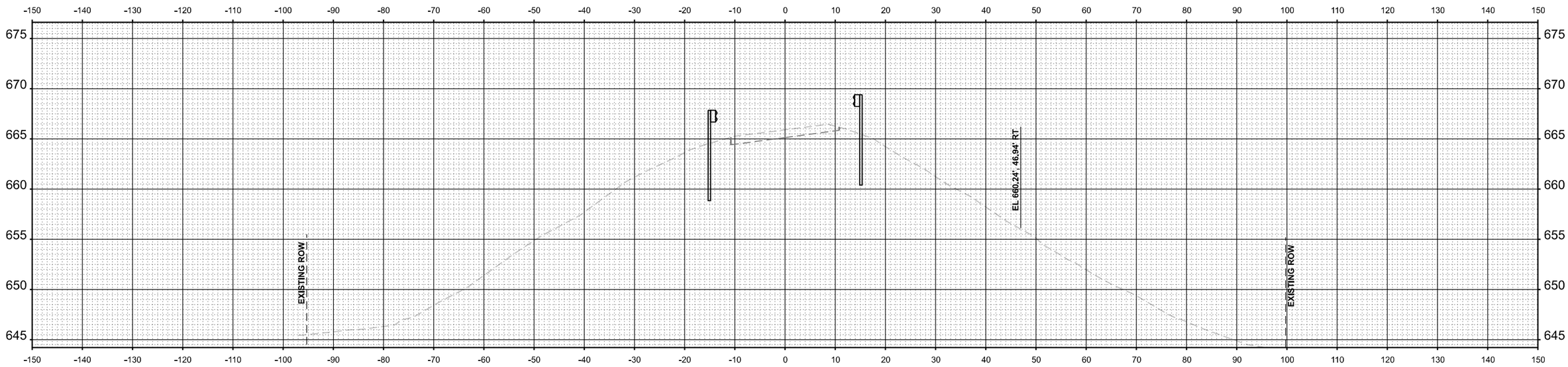


STA 53+50.00

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

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

MODEL: TR7 - 53+50.00 [Sheet]
FILE NAME: G:\ORD\212-718\CSN068-0035 Cross Section.dgn

FEHR GRAHAM
ENGINEERING & ENVIRONMENTAL
Illinois design firm no. 184-003809

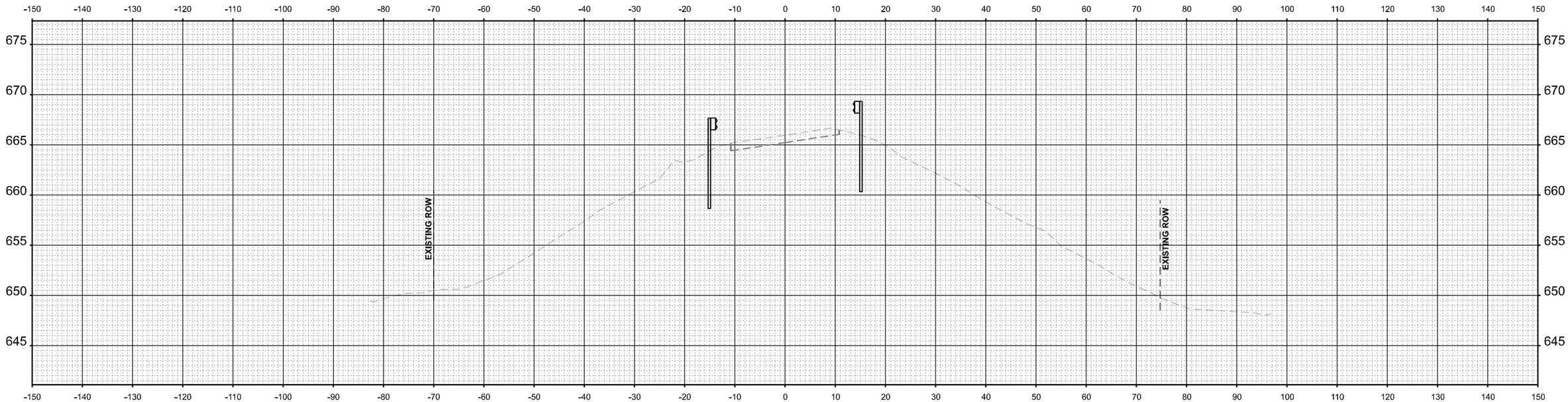
USER NAME = mescatell	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 0.16666633 ' / In.	CHECKED -	REVISED -
PLOT DATE = 8/14/2024	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

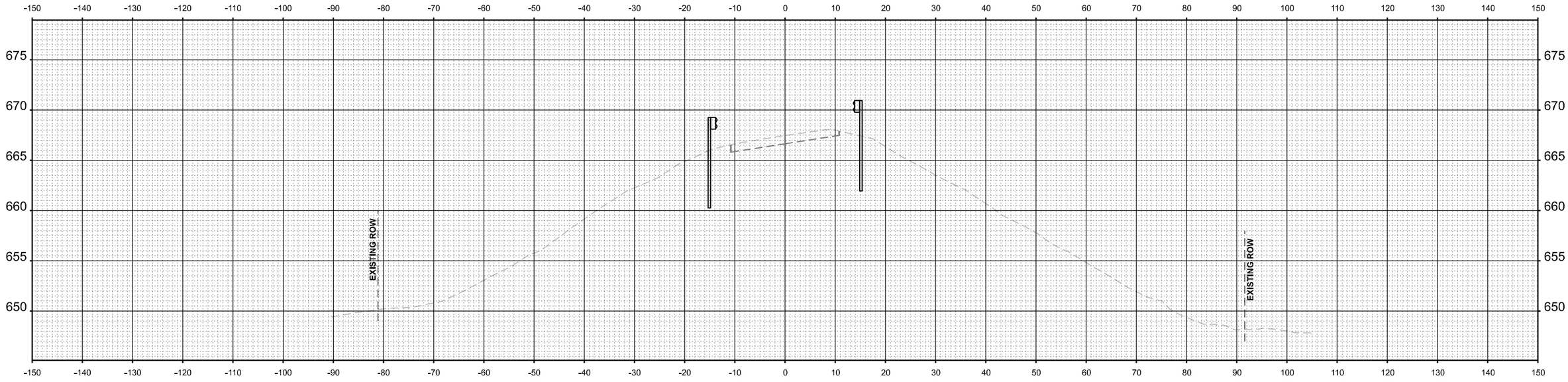
TR 7
CROSS SECTIONS

SCALE: 1"=10' | SHEET 14 OF 16 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(68-5HB-1,2)BRR, BY,D	MONTGOMERY	122	98
		CONTRACT NO. 72A59		
	ILLINOIS	FED. AID PROJECT		



STA 55+00.00



STA 54+50.00

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

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

MODEL: TR7 - 54+50.00 [Sheet]
FILE NAME: G:\ORD\212-718\CSN068-0035 Cross Section.dgn

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Illinois design firm no. 184-003809

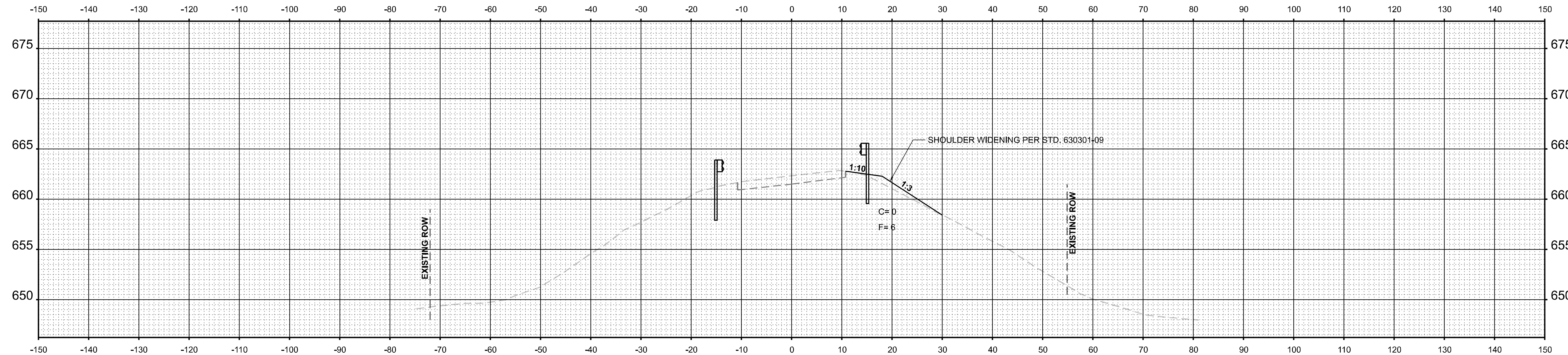
USER NAME = mescatell	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 0.16666633 ' / In.	CHECKED -	REVISED -
PLOT DATE = 8/14/2024	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

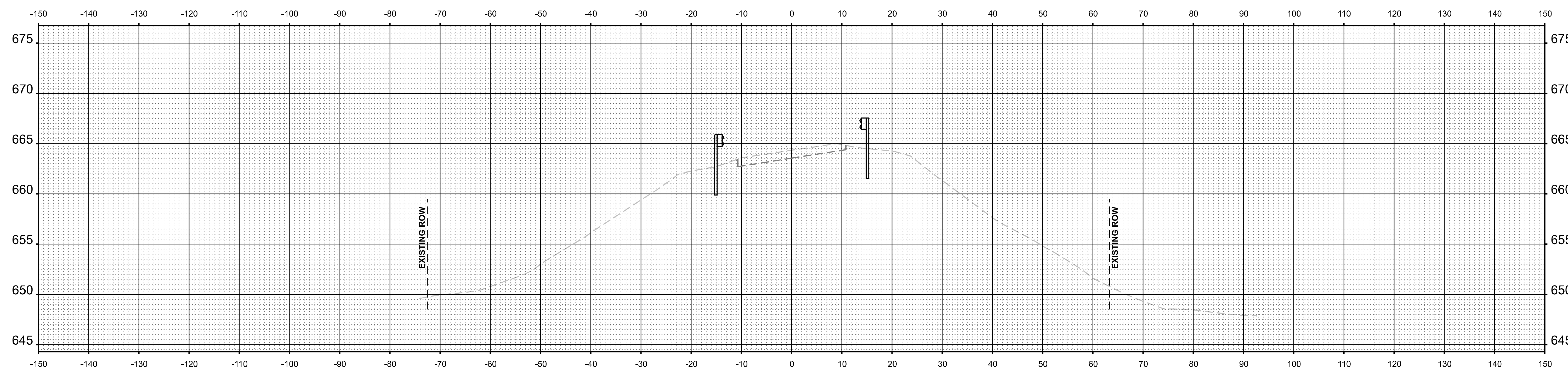
TR 7
CROSSS SECTIONS

SCALE: 1"=10' | SHEET 15 OF 16 SHEETS | STA. | TO STA.

F.A. I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(68-5HB-1,2)BRR, BY,D	MONTGOMERY	122	99
		CONTRACT NO. 72A59		
	ILLINOIS	FED. AID PROJECT		



STA 56+00.00



STA 55+50.00

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

MODEL: TR7 - 55+50.00 [Sheet]
FILE NAME: G:\ORD\2\12-\TBC\SN068-0035 Cross Section.dgn

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	PLOT DATE = 8/14/2024	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

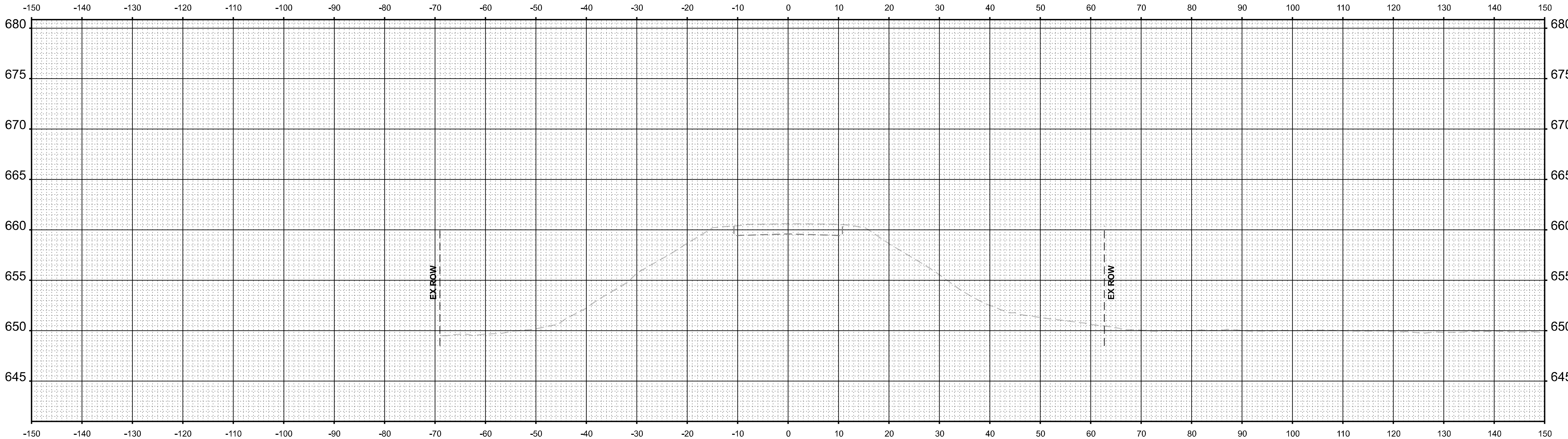
TR 7
CROSS SECTIONS

SCALE: 1"=10' | SHEET 16 OF 16 SHEETS | STA. | TO STA.

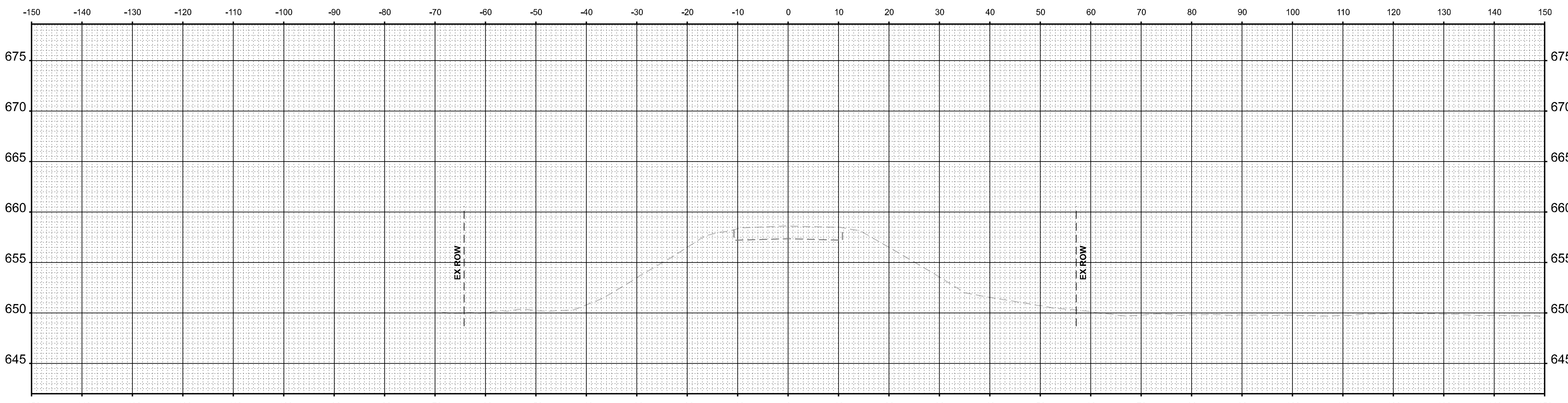
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(68-5HB-1,2)BRR, BY,D	MONTGOMERY	122	100

CONTRACT NO. 72A59

ILLINOIS | FED. AID PROJECT



STA 44+00.00



STA 43+50.00

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USER NAME = mescatel	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 0.16666633 ' / in.	CHECKED -	REVISED -
PLOT DATE = 8/14/2024	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TR 17
CROSS SECTIONS

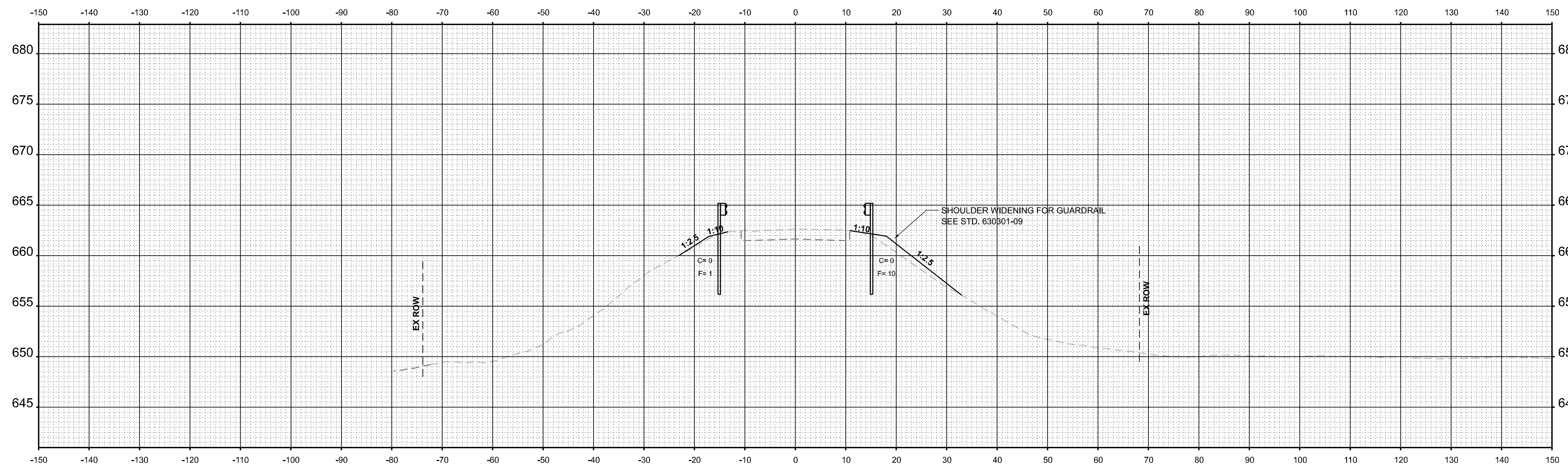
SCALE: 1"=10' SHEET 1 OF 22 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(68-5HB-1,2)BRR, BY,D	MONTGOMERY	122	101

CONTRACT NO. 72A59

ILLINOIS FED. AID PROJECT

MODEL: TR17 - 43+50.00 [Sheet]



STA 44+50.00

USER NAME = mescatel	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
	DRAWN -	REVISED -	
PLOT SCALE = 0.16666633 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 8/14/2024	DATE -	REVISED -	

FEHR GRAHAM
ENGINEERING & ENVIRONMENTAL

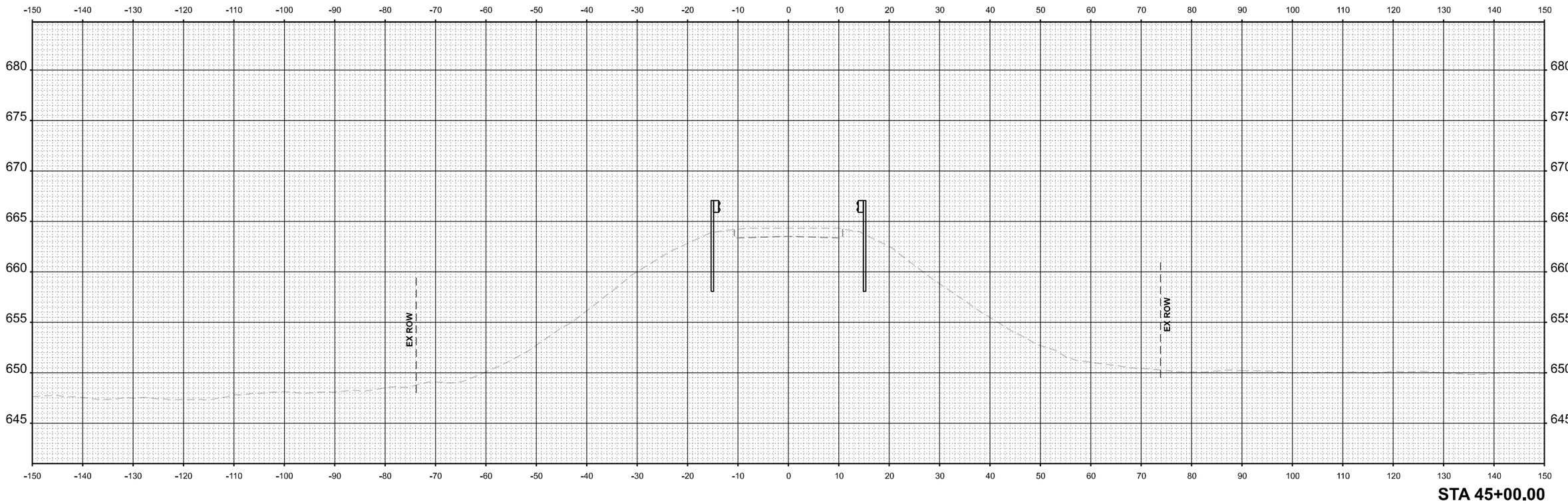
TR 17
CROSS SECTIONS

SCALE: 1"=10' | SHEET 2 OF 22 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(68-5HB-1,2)BRR, BY,D	MONTGOMERY	122	102
		CONTRACT NO. 72A59		
		ILLINOIS FED. AID PROJECT		

MODEL: TR17 - 44+50.00 [Sheet]
FILE NAME: ...Cross section.dgn

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



STA 45+00.00

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

MODEL: TR17 - 45+00.00 [Sheet]
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FEHR GRAHAM
ENGINEERING & ENVIRONMENTAL
ILLINOIS DESIGN FIRM NO. 184-005525

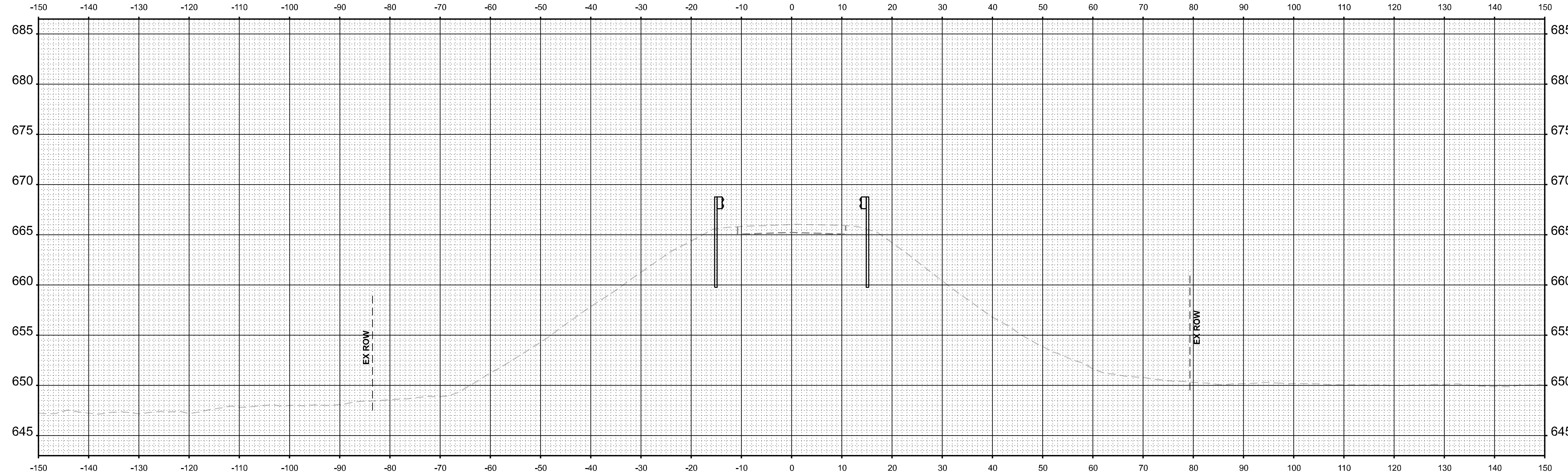
USER NAME = mescatel	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 0.16666633 ' / In.	CHECKED -	REVISED -
PLOT DATE = 8/14/2024	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TR 17
CROSS SECTIONS

SCALE: 1"=10' | SHEET 3 OF 22 SHEETS | STA. | TO STA.

F.A. I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(68-5HB-1,2)BRR, BY,D	MONTGOMERY	122	103
		CONTRACT NO. 72A59		
	ILLINOIS	FED. AID PROJECT		



STA 45+50.00

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

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

MODEL: TR17 - 45+50.00 [Sheet]
FILE NAME: \\rochelle\drawings\ORD\21\21-718D SN068-0036 Cross section.dgn

FEHR GRAHAM
ENGINEERING & ENVIRONMENTAL
ILLINOIS DESIGN FIRM NO. 184-003525

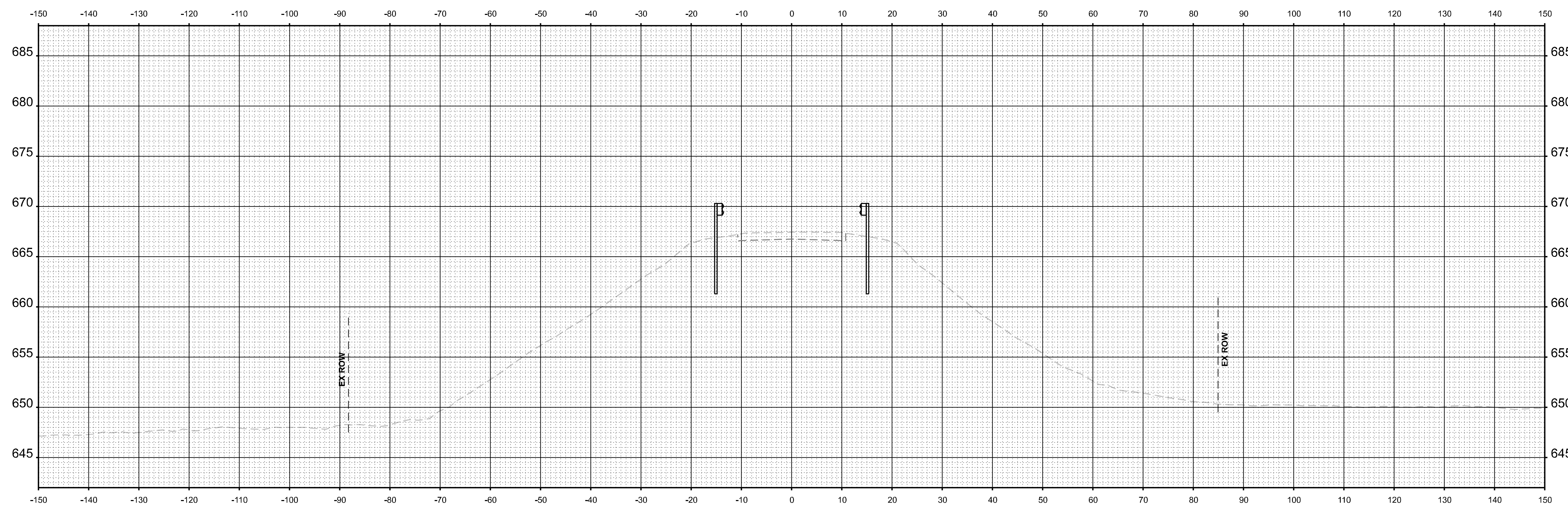
USER NAME = mescatel	DESIGNED -	REVISED -	
	DRAWN -	REVISED -	
PLOT SCALE = 0.16666633 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 8/14/2024	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TR 17
CROSS SECTIONS

SCALE: 1"=10' | SHEET 4 OF 22 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(68-5HB-1,2)BRR, BY,D	MONTGOMERY	122	104
		CONTRACT NO. 72A59		
	ILLINOIS	FED. AID PROJECT		



STA 46+00.00

FEHR GRAHAM ENGINEERING & ENVIRONMENTAL © 2023 FEHR GRAHAM	USER NAME = mescatel	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TR 17 CROSS SECTIONS
		DRAWN -	REVISED -		
	PLOT SCALE = 0.16666633 ' / in.	CHECKED -	REVISED -		
	PLOT DATE = 8/14/2024	DATE -	REVISED -		SCALE: 1"=10' SHEET 5 OF 22 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(68-5HB-1,2)BRR, BY,D	MONTGOMERY	122	105

CONTRACT NO. 72A59

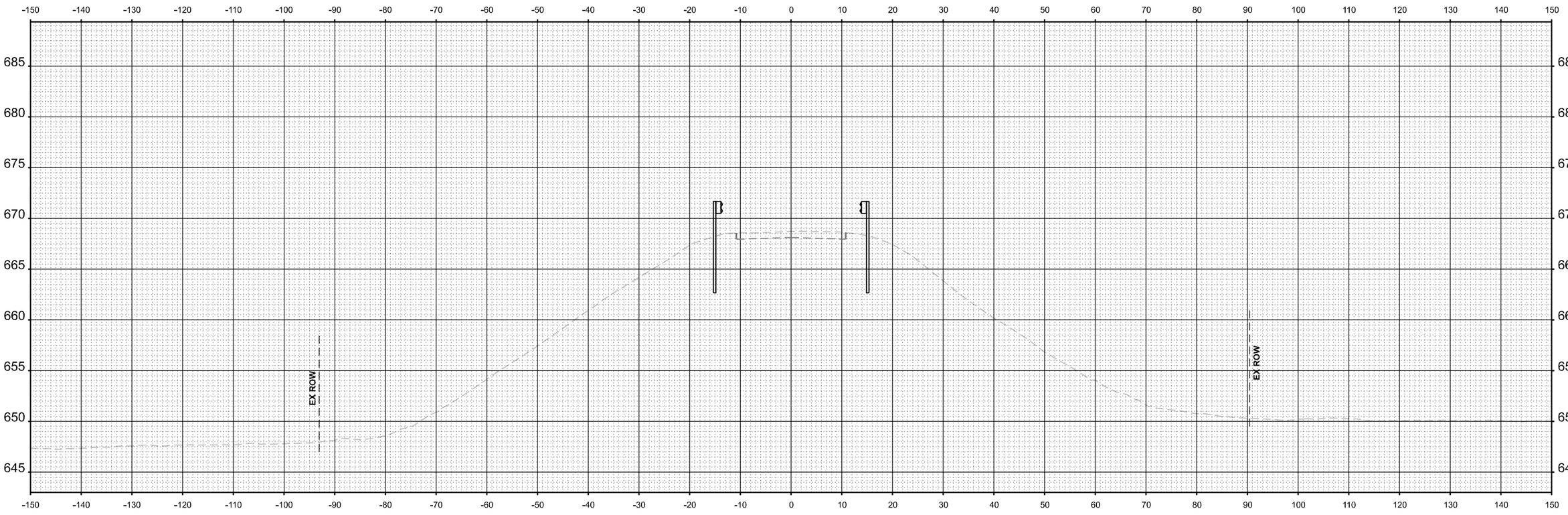
ILLINOIS FED. AID PROJECT

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

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

MODEL: TR17 - 46+00.00 [Sheet]

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



STA 46+50.00

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

MODEL: TR17 - 46+50.00 [Sheet]
FILE NAME: \\rochelle\drawings\ORD\21\21-718D\SN068-0036 Cross section.dgn

FEHR GRAHAM
ENGINEERING & ENVIRONMENTAL
ILLINOIS DESIGN FIRM NO. 184-003525

USER NAME = mescatel	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 0.16666633 ' / in.	CHECKED -	REVISED -
PLOT DATE = 8/14/2024	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

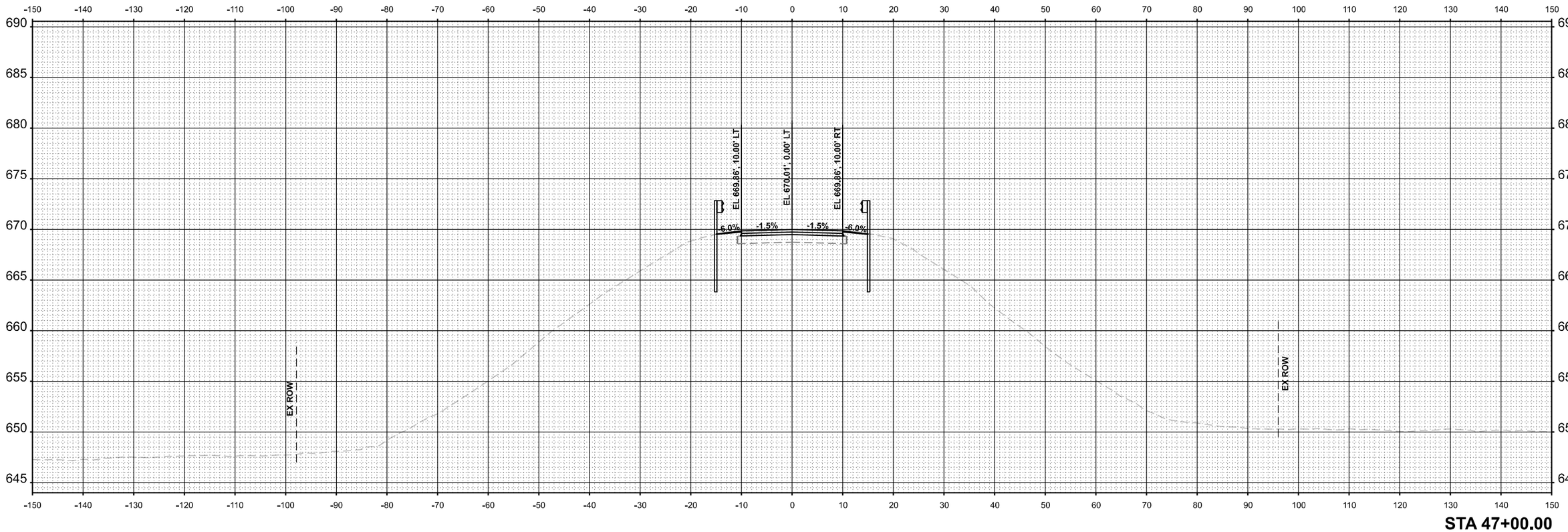
TR 17
CROSS SECTIONS

SCALE: 1"=10' | SHEET 6 OF 22 SHEETS | STA. | TO STA.

F.A. I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(68-5HB-1,2)BRR, BY,D	MONTGOMERY	122	106
		CONTRACT NO. 72A59		
		ILLINOIS	FED. AID PROJECT	

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

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



STA 47+00.00

MODEL: TR17 - 47+00.00 [Sheet]
FILE NAME: \\ccdedfile\drawings\ORD\2121-718D\SN068-0036 Cross section.dgn

FEHR GRAHAM
ENGINEERING & ENVIRONMENTAL
ILLINOIS DESIGN FIRM NO. 184-001925

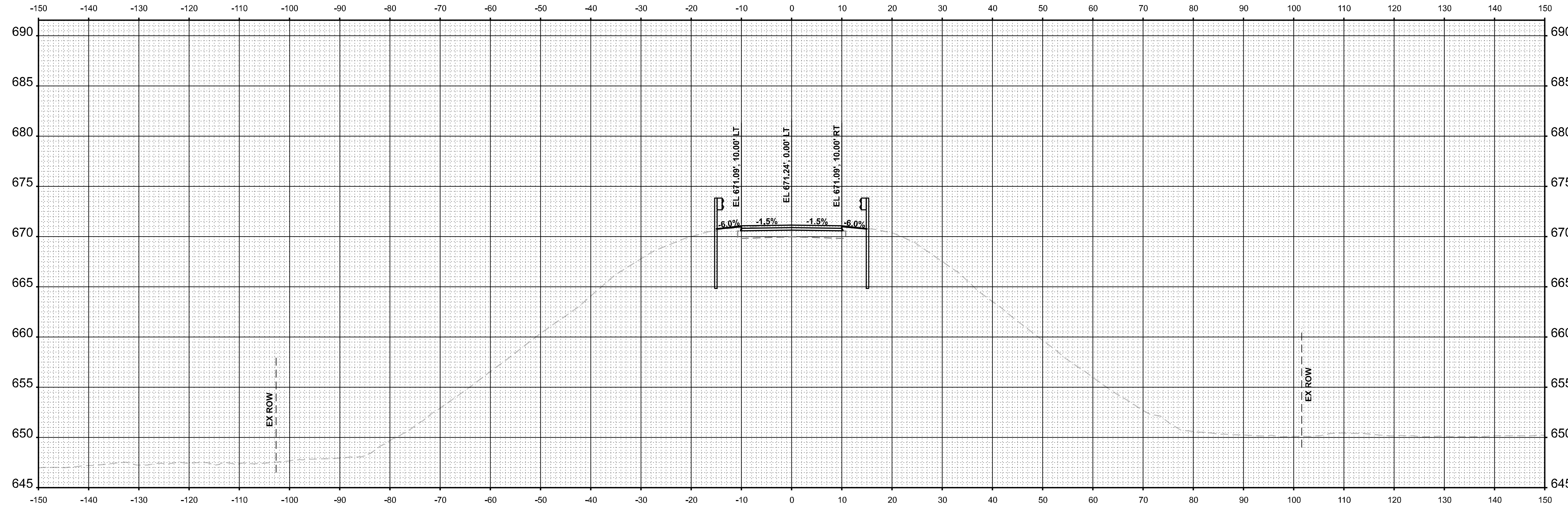
USER NAME = mescatell	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 0.16666633 ' / in.	CHECKED -	REVISED -
PLOT DATE = 8/14/2024	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TR 17
CROSS SECTIONS

SCALE: 1"=10' | SHEET 7 OF 22 SHEETS | STA. | TO STA.

F.A. I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(68-5HB-1,2)BRR, BY,D	MONTGOMERY	122	107
		CONTRACT NO. 72A59		
	ILLINOIS	FED. AID PROJECT		

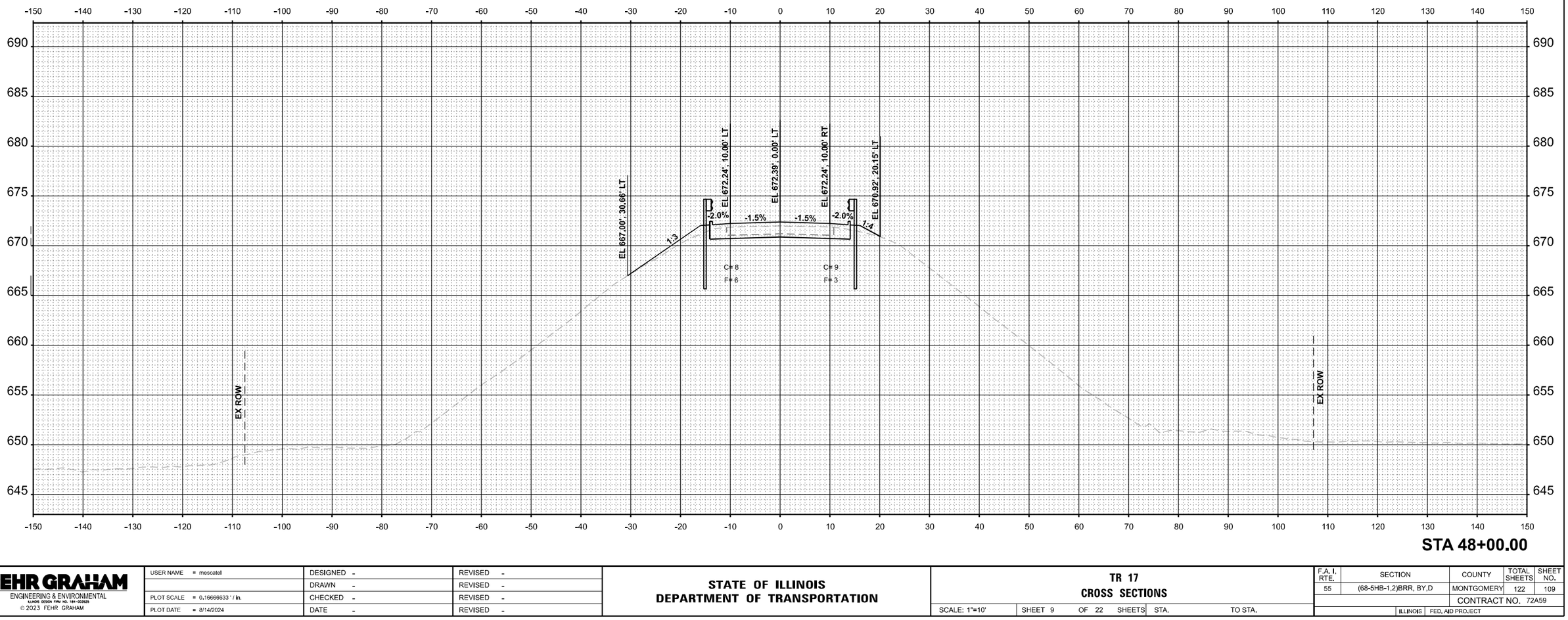


STA 47+50.00

FEHR GRAHAM ENGINEERING & ENVIRONMENTAL © 2023 FEHR GRAHAM	USER NAME = mescatel	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TR 17 CROSS SECTIONS	F.A.I. RTE. 55	SECTION (68-5HB-1,2)BRR, BY,D
		DRAWN -	REVISED -			COUNTY MONTGOMERY	TOTAL SHEETS 122 / SHEET NO. 108
	PLOT SCALE = 0.16666633 ' / in.	CHECKED -	REVISED -			CONTRACT NO. 72A59	
	PLOT DATE = 8/14/2024	DATE -	REVISED -		SCALE: 1"=10' SHEET 8 OF 22 SHEETS STA. TO STA.	ILLINOIS FED. AID PROJECT	

MODEL: TR17-47+50.00 [Sheet]

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



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

MODEL: TR17 - 48+00.00 [Sheet]
FILE NAME: \\ochelle\drawings\ORD\2121-718D-SN068-0036 Cross section.dgn

FEHR GRAHAM
ENGINEERING & ENVIRONMENTAL
ILLINOIS DESIGN FIRM NO. 184-005525

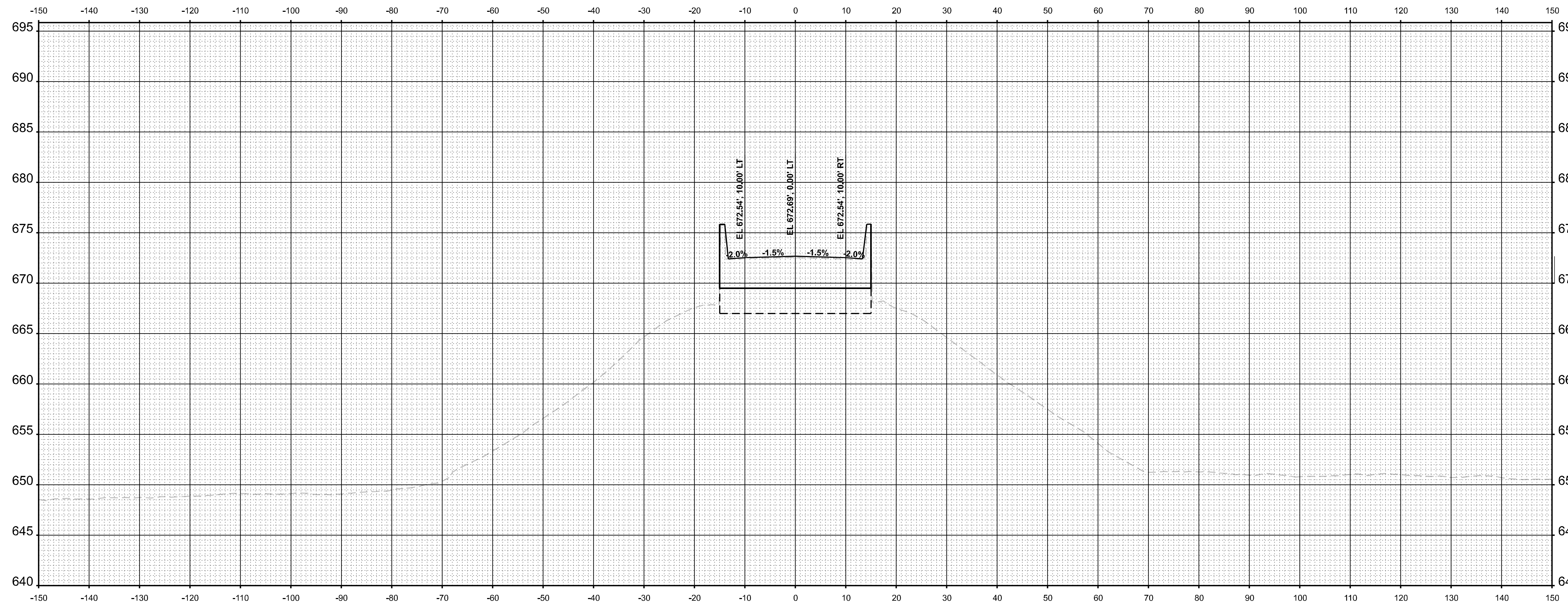
USER NAME = mescatel	DESIGNED -	REVISED -	
	DRAWN -	REVISED -	
PLOT SCALE = 0.16666633 ' / In.	CHECKED -	REVISED -	
PLOT DATE = 8/14/2024	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TR 17
CROSS SECTIONS

SCALE: 1"=10' | SHEET 9 OF 22 SHEETS | STA. | TO STA.

F.A. I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(68-5HB-1,2)BRR, BY,D	MONTGOMERY	122	109
		CONTRACT NO. 72A59		
		ILLINOIS	FED. AID PROJECT	



STA 48+21.00

USER NAME = mescatel	DESIGNED -	REVISED -	
	DRAWN -	REVISED -	
PLOT SCALE = 0.16666633 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 8/14/2024	DATE -	REVISED -	

FEHR GRAHAM
ENGINEERING & ENVIRONMENTAL

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TR 17
CROSS SECTIONS

SCALE: 1"=10' | SHEET 10 OF 22 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(68-5HB-1,2)BRR,BY, D	MONTGOMERY	122	110

CONTRACT NO. 72A59

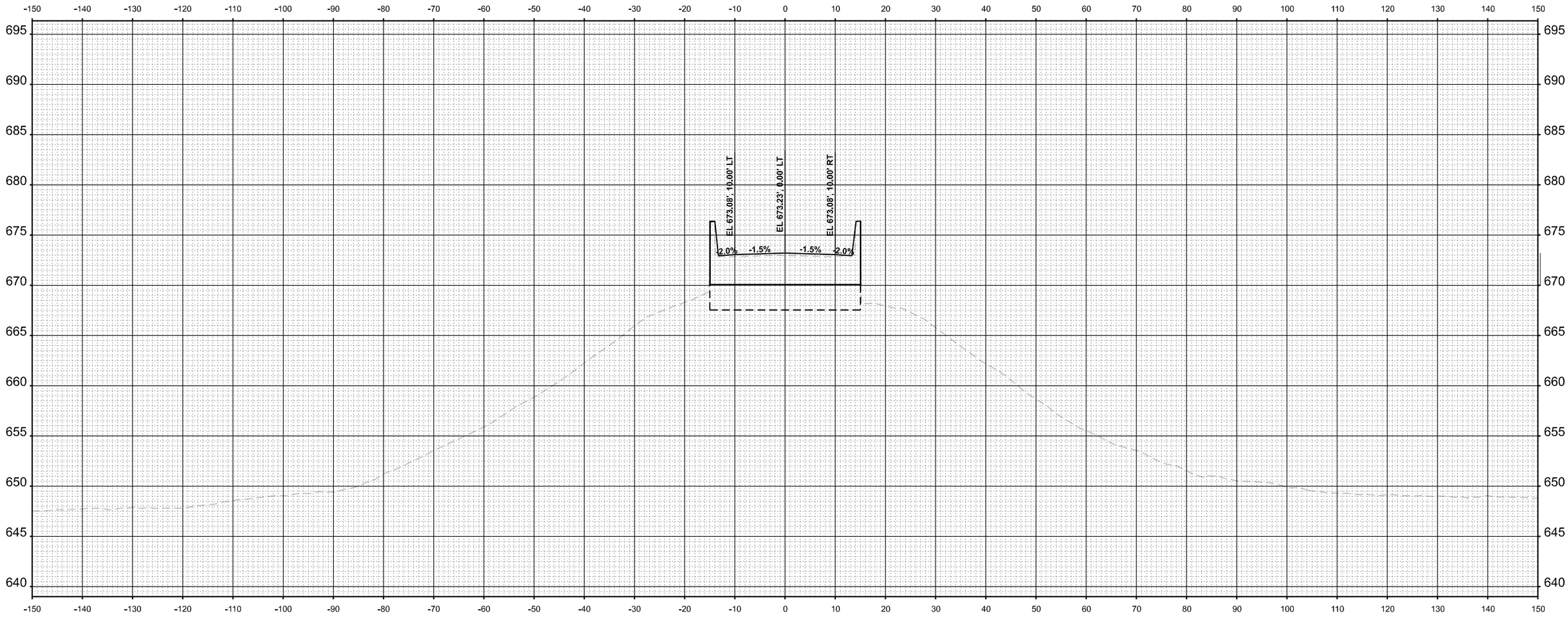
ILLINOIS | FED. AID PROJECT

MODEL: TR17 - 48+21.00 [Sheet]

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

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

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



STA 51+59.00

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

MODEL: TR17 - 51+59.00 [Sheet]
FILE NAME: \\rochelle\drawings\ORD\2121+718\D\SN068-A036 Cross section.dgn

FEHR GRAHAM
ENGINEERING & ENVIRONMENTAL
ILLINOIS DESIGN FIRM NO. 184-003525

USER NAME = mescatel	DESIGNED -	REVISED -	
	DRAWN -	REVISED -	
PLOT SCALE = 0.16666633 ' / In.	CHECKED -	REVISED -	
PLOT DATE = 8/14/2024	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

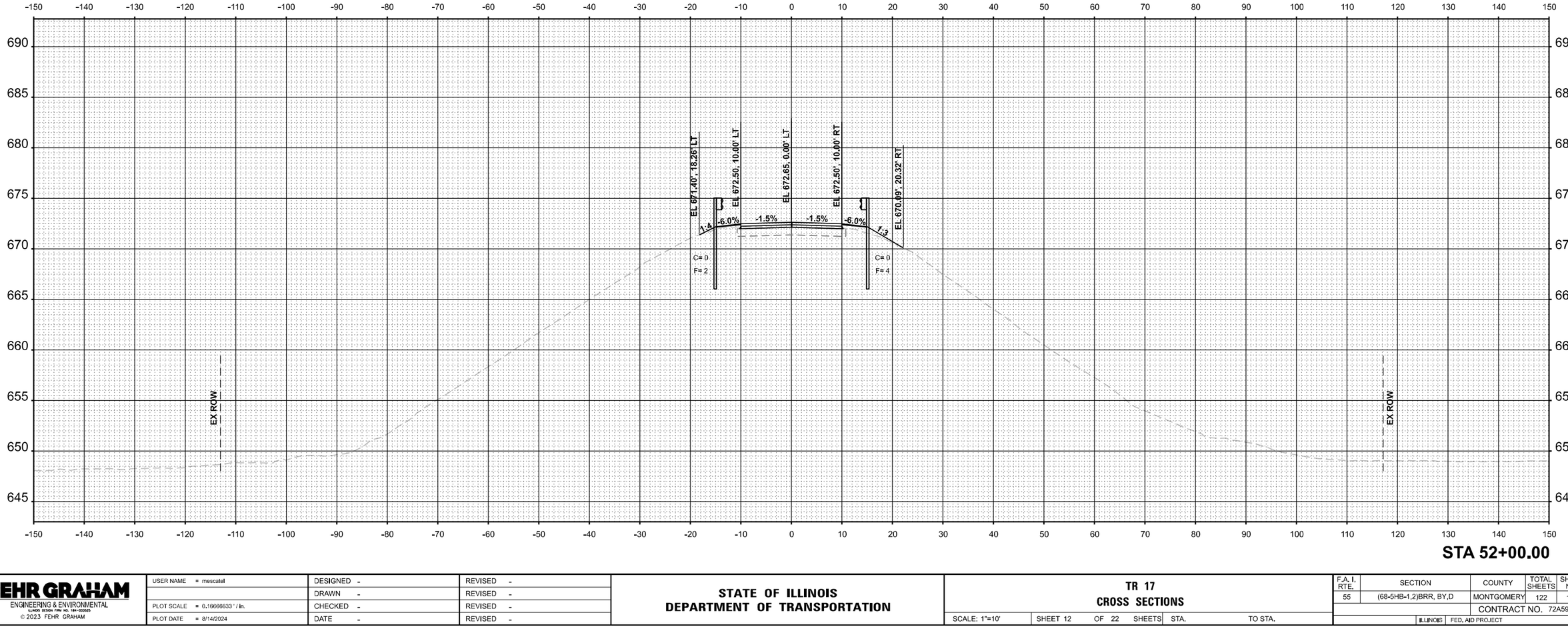
TR 17
CROSS SECTIONS

SCALE: 1"=10' | SHEET 11 OF 22 SHEETS | STA. | TO STA.

F.A. I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(68-5HB-1,2)BRR,BY, D	MONTGOMERY	122	111
		CONTRACT NO. 72A59		
	ILLINOIS	FED. AID PROJECT		

FINAL SURVEY	
NOTE BOOK	
NO.	

	BY	DATE
SURVEYED		
PLOTTED		
TEMPLATE		
AREAS		
AREAS CHECKED		



STA 52+00.00

ORIGINAL SURVEY	
NOTE BOOK	
NO.	

	BY	DATE
SURVEYED		
PLOTTED		
TEMPLATE		
AREAS		
AREAS CHECKED		

MODEL: TR17 - 52+00.00 [Sheet]
FILE NAME: \\rochelle\drawings\ORD\2121-718D-SN068-0036 Cross section.dgn

FEHR GRAHAM
ENGINEERING & ENVIRONMENTAL
ILLINOIS DESIGN FIRM NO. 184-005525

USER NAME = mescatel	DESIGNED -	REVISED -	
	DRAWN -	REVISED -	
PLOT SCALE = 0.16666633 ' / In.	CHECKED -	REVISED -	
PLOT DATE = 8/14/2024	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

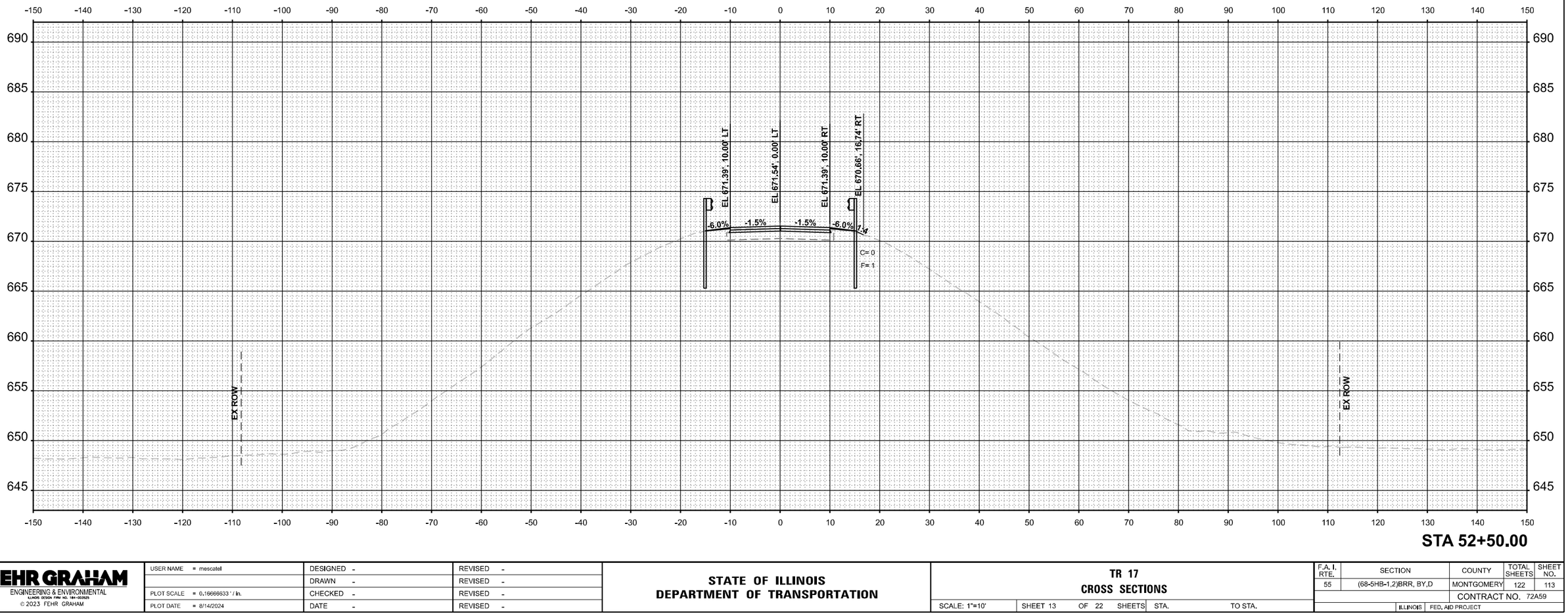
TR 17
CROSS SECTIONS

SCALE: 1"=10' | SHEET 12 OF 22 SHEETS | STA. | TO STA.

F.A. I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(68-5HB-1,2)BRR, BY,D	MONTGOMERY	122	112
		CONTRACT NO. 72A59		
	ILLINOIS	FED. AID PROJECT		

FINAL SURVEY	
NOTE BOOK	
NO.	

	BY	DATE
SURVEYED		
PLOTTED		
TEMPLATE		
AREAS		
AREAS CHECKED		



STA 52+50.00

ORIGINAL SURVEY	
NOTE BOOK	
NO.	

	BY	DATE
SURVEYED		
PLOTTED		
TEMPLATE		
AREAS		
AREAS CHECKED		

MODEL: TR17 - 52+50.00 [Sheet]
FILE NAME: \\rochelle\drawings\ORD\2121-718D-SN068-0036 Cross section.dgn

FEHR GRAHAM
ENGINEERING & ENVIRONMENTAL
ILLINOIS DESIGN FIRM NO. 184-005525

USER NAME = mescatel	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 0.16666633 ' / In.	CHECKED -	REVISED -
PLOT DATE = 8/14/2024	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

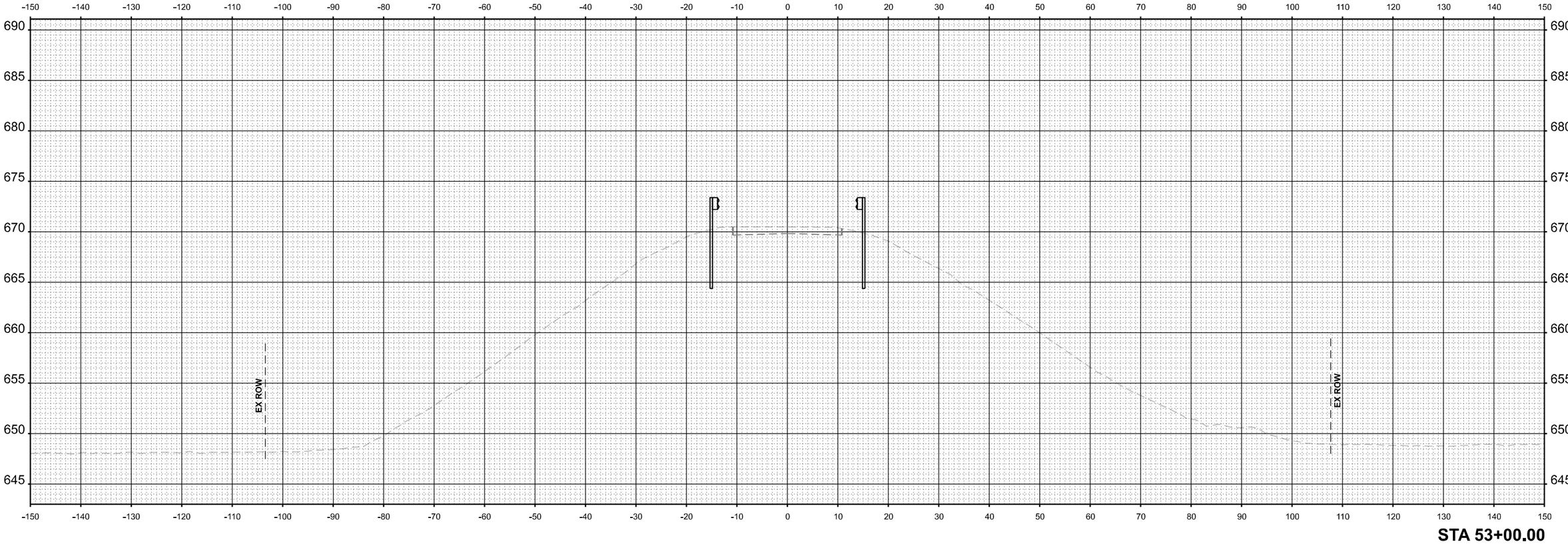
TR 17
CROSS SECTIONS

SCALE: 1"=10' | SHEET 13 OF 22 SHEETS | STA. | TO STA.

F.A. I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(68-5HB-1,2)BRR, BY,D	MONTGOMERY	122	113
		CONTRACT NO. 72A59		
	ILLINOIS	FED. AID PROJECT		

FINAL SURVEY	
NOTE BOOK	
NO.	

		BY	DATE
SURVEYED			
PLOTTED			
TEMPLATE			
AREAS			
AREAS CHECKED			



ORIGINAL SURVEY	
NOTE BOOK	
NO.	

		BY	DATE
SURVEYED			
PLOTTED			
TEMPLATE			
AREAS			
AREAS CHECKED			

MODEL: TR17 - 53+00.00 [Sheet]
FILE NAME: \\ochelfel\drawings\ORD\2121-718D-SN068-0036 Cross section.dgn

FEHR GRAHAM
ENGINEERING & ENVIRONMENTAL
ILLINOIS DESIGN FIRM NO. 184-005525

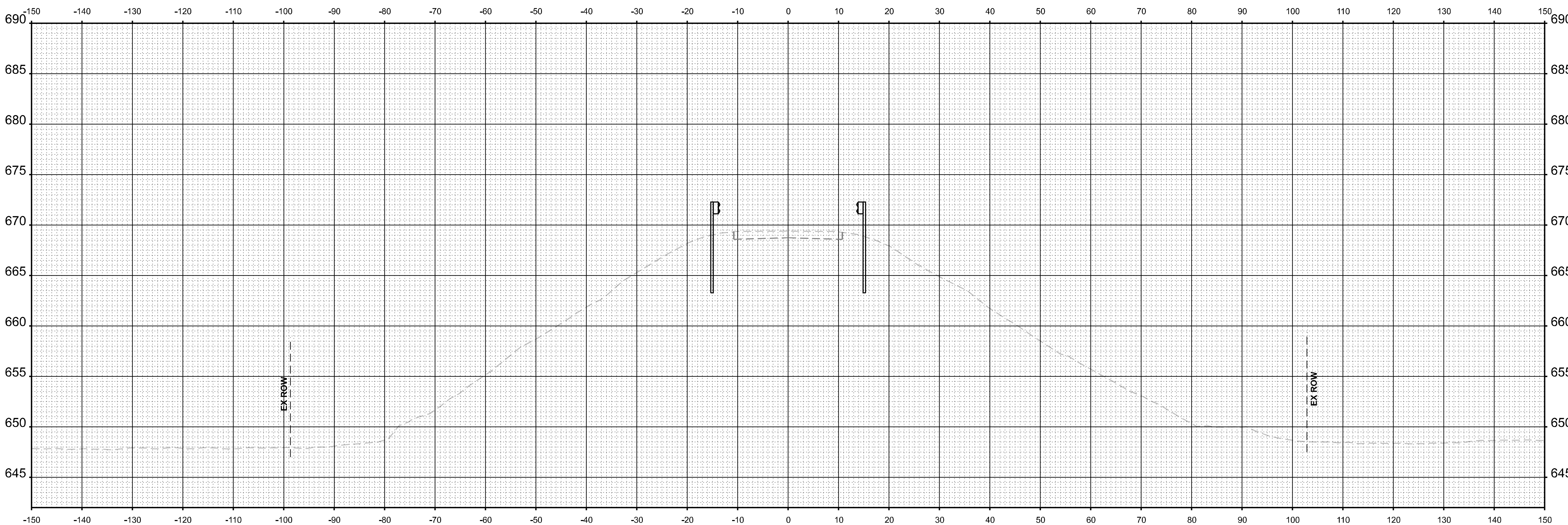
USER NAME = mescatel	DESIGNED -	REVISED -	
	DRAWN -	REVISED -	
PLOT SCALE = 0.16666633 ' / In.	CHECKED -	REVISED -	
PLOT DATE = 8/14/2024	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TR 17
CROSS SECTIONS

SCALE: 1"=10' | SHEET 14 OF 22 SHEETS | STA. | TO STA.

F.A. I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(68-5HB-1,2)BRR, BY,D	MONTGOMERY	122	114
		CONTRACT NO. 72A59		
	ILLINOIS	FED. AID PROJECT		



STA 53+50.00

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

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

MODEL: TR17 - 53+50.00 [Sheet]
FILE NAME: \\rochelle\drawings\ORD\2121-718D\SN068-0036 Cross section.dgn

FEHR GRAHAM
ENGINEERING & ENVIRONMENTAL
ILLINOIS DESIGN FIRM NO. 184-003525

USER NAME = mescatel	DESIGNED -	REVISED -	
	DRAWN -	REVISED -	
PLOT SCALE = 0.16666633 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 8/14/2024	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

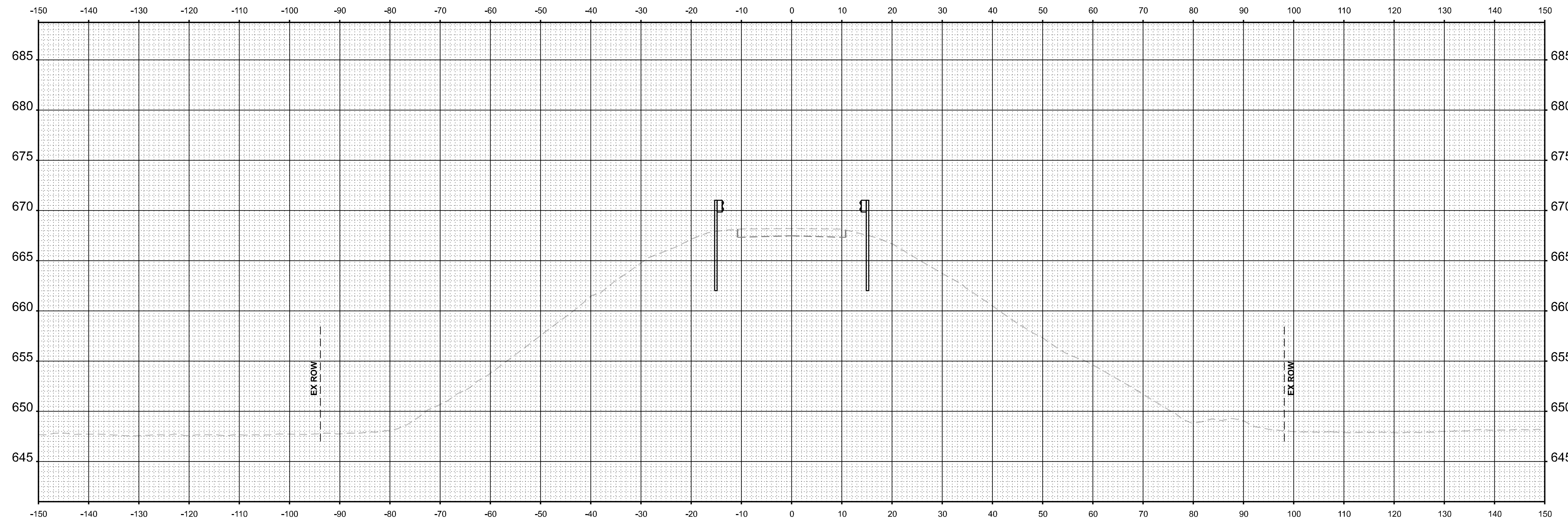
TR 17
CROSS SECTIONS

SCALE: 1"=10' | SHEET 15 OF 22 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(68-5HB-1,2)BRR, BY,D	MONTGOMERY	122	115

CONTRACT NO. 72A59

ILLINOIS | FED. AID PROJECT



STA 54+00.00

FEHR GRAHAM ENGINEERING & ENVIRONMENTAL © 2023 FEHR GRAHAM	USER NAME = mescatel	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = 0.16666633 ' / in.	CHECKED -	REVISED -
	PLOT DATE = 8/14/2024	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TR 17
CROSS SECTIONS

SCALE: 1"=10' | SHEET 16 OF 22 SHEETS | STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(68-5HB-1,2)BRR, BY,D	MONTGOMERY	122	116

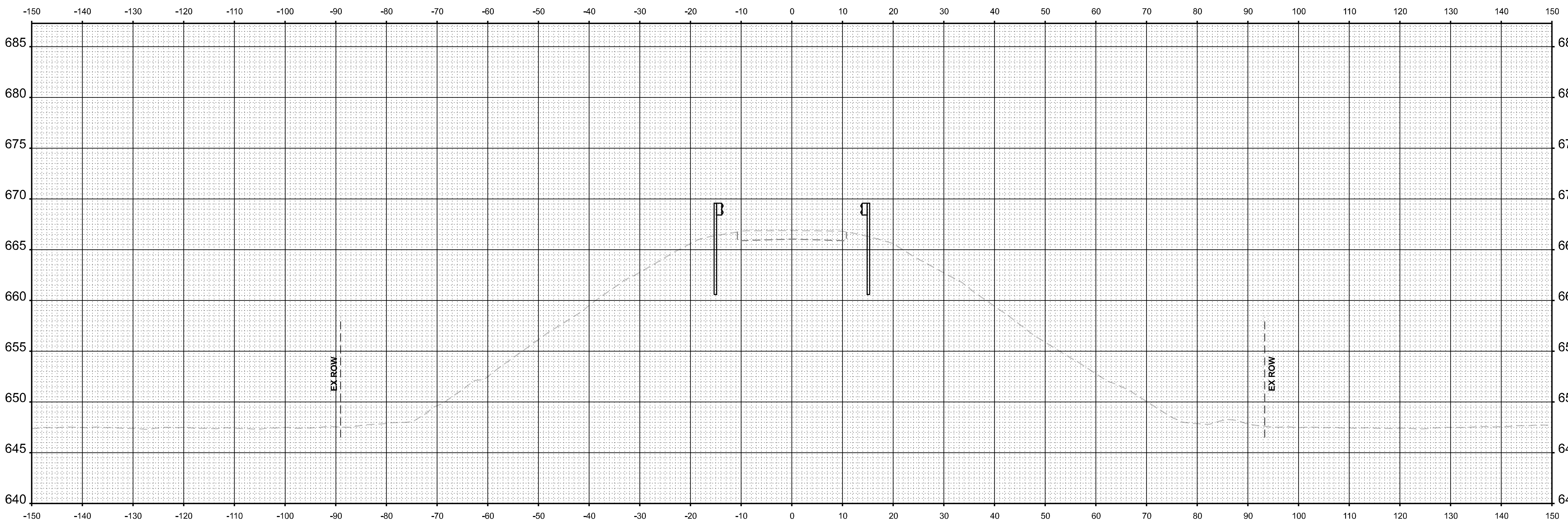
CONTRACT NO. 72A59

ILLINOIS FED. AID PROJECT

MODEL: TR17 - 54+00.00 [Sheet]
FILE NAME: ...ORD 2121-718D SN068-0036 Cross section.dgn

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

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



STA 54+50.00

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

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

MODEL: TR17 - 54+50.00 [Sheet]
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FEHR GRAHAM
ENGINEERING & ENVIRONMENTAL
ILLINOIS DESIGN FIRM NO. 184-003525

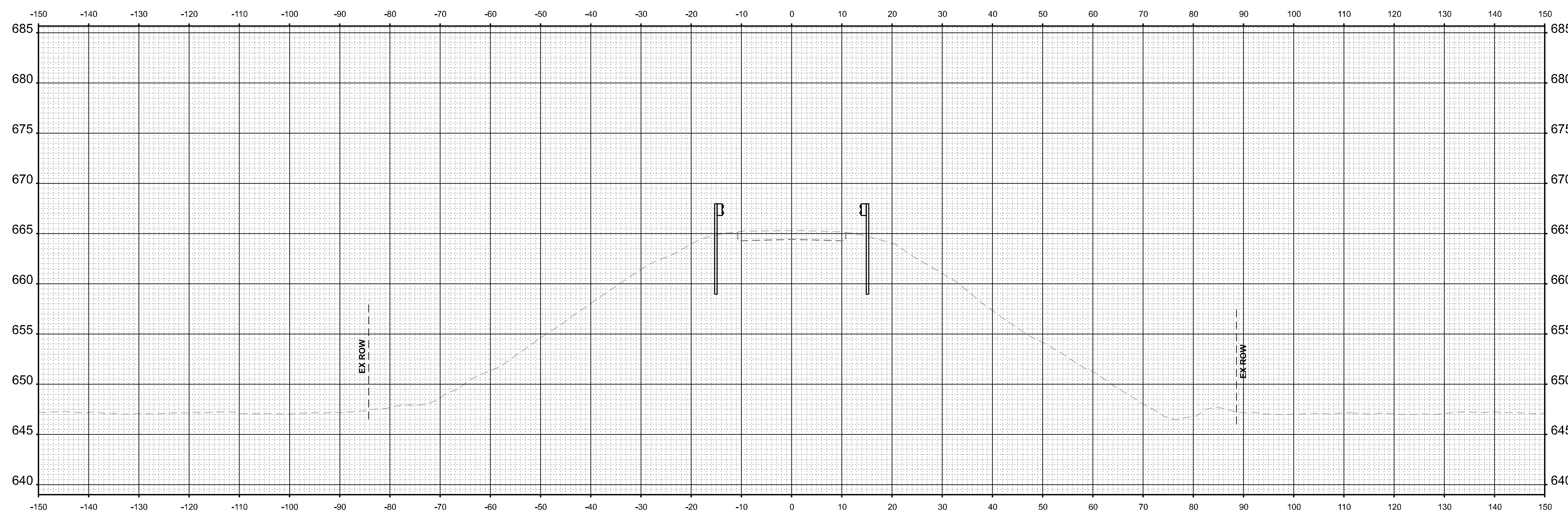
USER NAME = mescatel	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 0.16666633 ' / in.	CHECKED -	REVISED -
PLOT DATE = 8/14/2024	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TR 17
CROSS SECTIONS

SCALE: 1"=10' | SHEET 17 OF 22 SHEETS | STA. | TO STA.

F.A. I, RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(68-5HB-1,2)BRR, BY,D	MONTGOMERY	122	117
		CONTRACT NO. 72A59		
	ILLINOIS	FED. AID PROJECT		



STA 55+00.00

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

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

MODEL: TR17 - 55+00.00 [Sheet]

FEHR GRAHAM
ENGINEERING & ENVIRONMENTAL

USER NAME = mescatel	DESIGNED -	REVISED -	
	DRAWN -	REVISED -	
PLOT SCALE = 0.16666633 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 8/14/2024	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

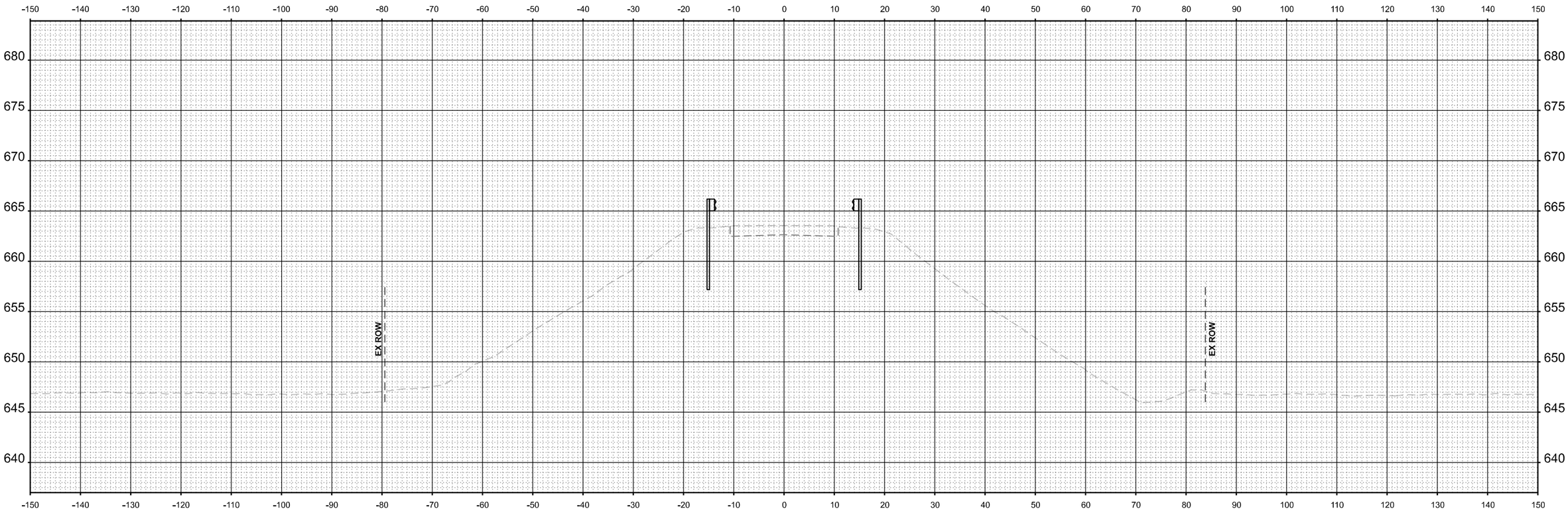
TR 17
CROSS SECTIONS

SCALE: 1"=10' | SHEET 18 OF 22 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(68-5HB-1,2)BRR, BY,D	MONTGOMERY	122	118
		CONTRACT NO. 72A59		
		ILLINOIS FED. AID PROJECT		

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

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



STA 55+50.00

MODEL: TR17 - 55+50.00 [Sheet]
FILE NAME: \\ccchelfile4\drawings\ORD\21\21-718D\SN068-0036 Cross section.dgn

FEHR GRAHAM
ENGINEERING & ENVIRONMENTAL
ILLINOIS DESIGN FIRM NO. 184-001925

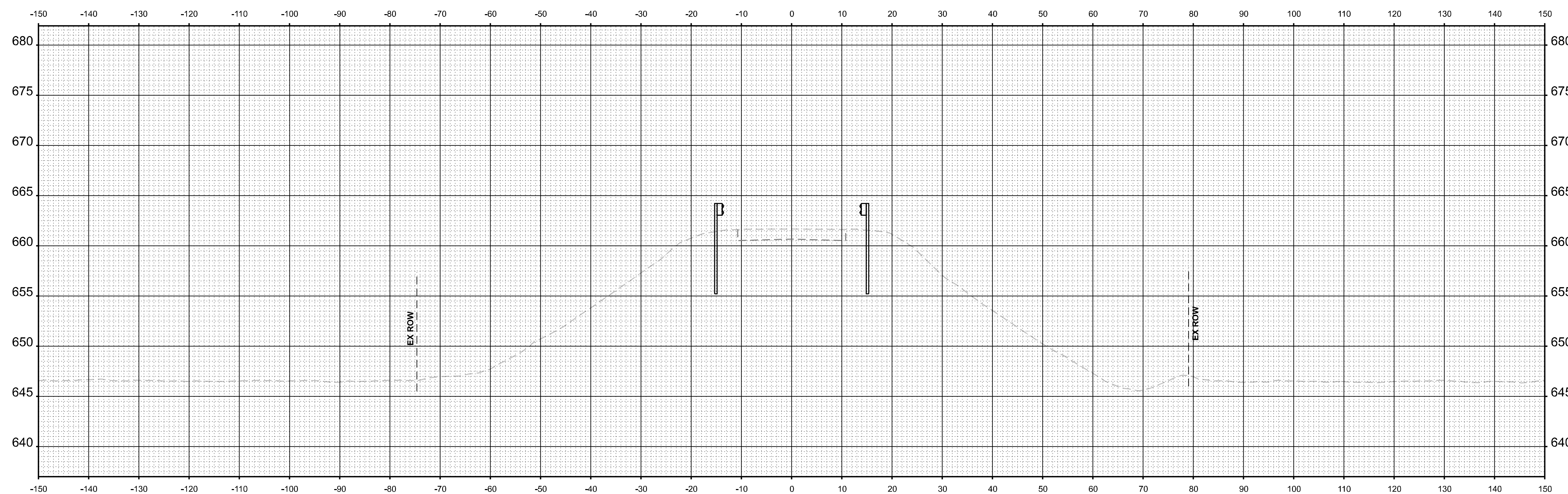
USER NAME = mescatell	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 0.16666633 ' / In.	CHECKED -	REVISED -
PLOT DATE = 8/14/2024	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TR 17
CROSS SECTIONS

SCALE: 1"=10' | SHEET 19 OF 22 SHEETS | STA. | TO STA.

F.A. I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(68-5HB-1,2)BRR, BY,D	MONTGOMERY	122	119
		CONTRACT NO. 72A59		
	ILLINOIS FED. AID PROJECT			



STA 56+00.00

FEHR GRAHAM ENGINEERING & ENVIRONMENTAL	USER NAME = mescatel	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = 0.16666633 ' / in.	CHECKED -	REVISED -
© 2023 FEHR GRAHAM	PLOT DATE = 8/14/2024	DATE -	REVISED -

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

TR 17 CROSS SECTIONS

SCALE: 1"=10' | SHEET 20 OF 22 SHEETS | STA. TO STA.

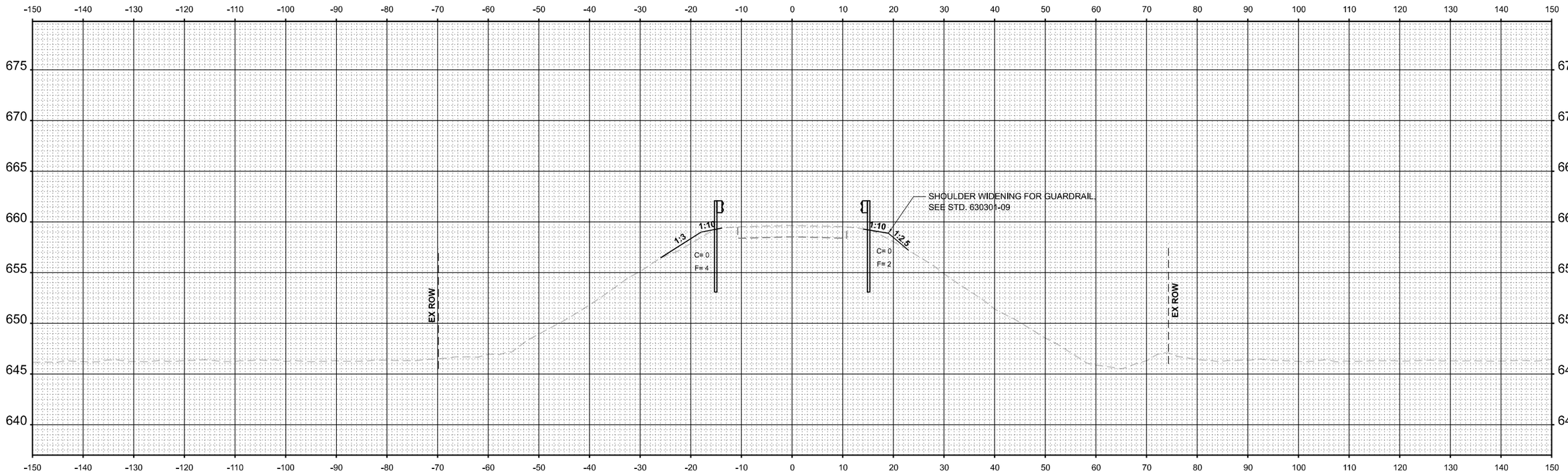
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(68-5HB-1,2)BRR, BY,D	MONTGOMERY	122	120
		CONTRACT NO. 72A59		
		ILLINOIS FED. AID PROJECT		

MODEL: TR17 - 56+00.00 [Sheet]
FILE NAME: ...\ORD\2121-718D\SN068-0036 Cross section.dgn

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

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

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



STA 56+50.00

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

MODEL: TR17 - 56+50.00 [Sheet]
FILE NAME: \\rochelle\drawings\GRD\2121-7180\SN059-0036 Cross section.dgn

FEHR GRAHAM
ENGINEERING & ENVIRONMENTAL
ILLINOIS DESIGN FIRM NO. 184-003525

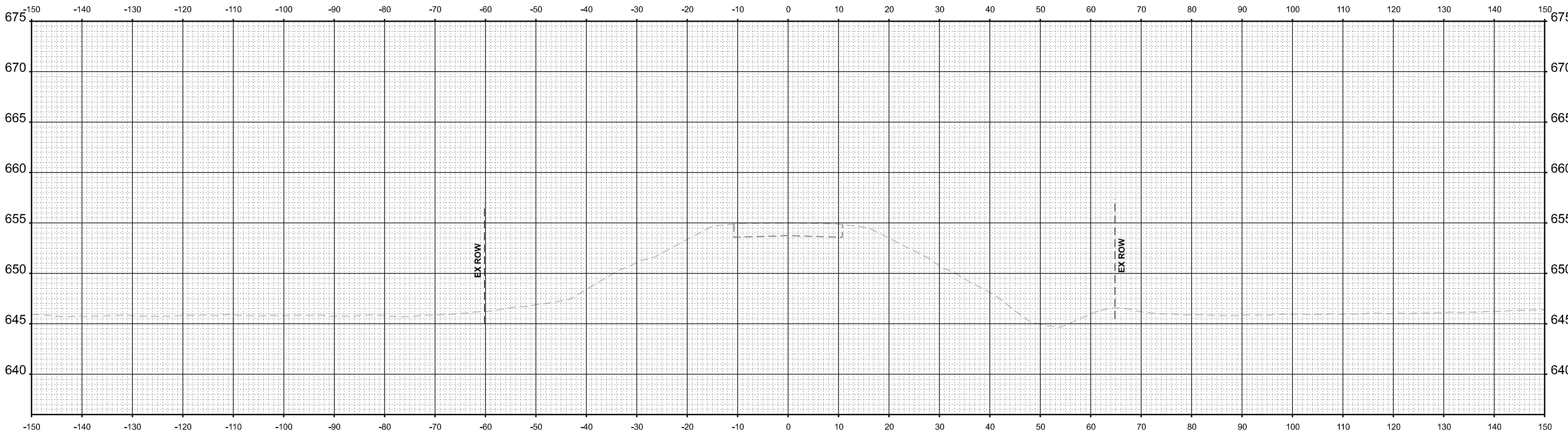
USER NAME = mescatell	DESIGNED -	REVISED -	
	DRAWN -	REVISED -	
PLOT SCALE = 0.16666633 ' / In.	CHECKED -	REVISED -	
PLOT DATE = 8/14/2024	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

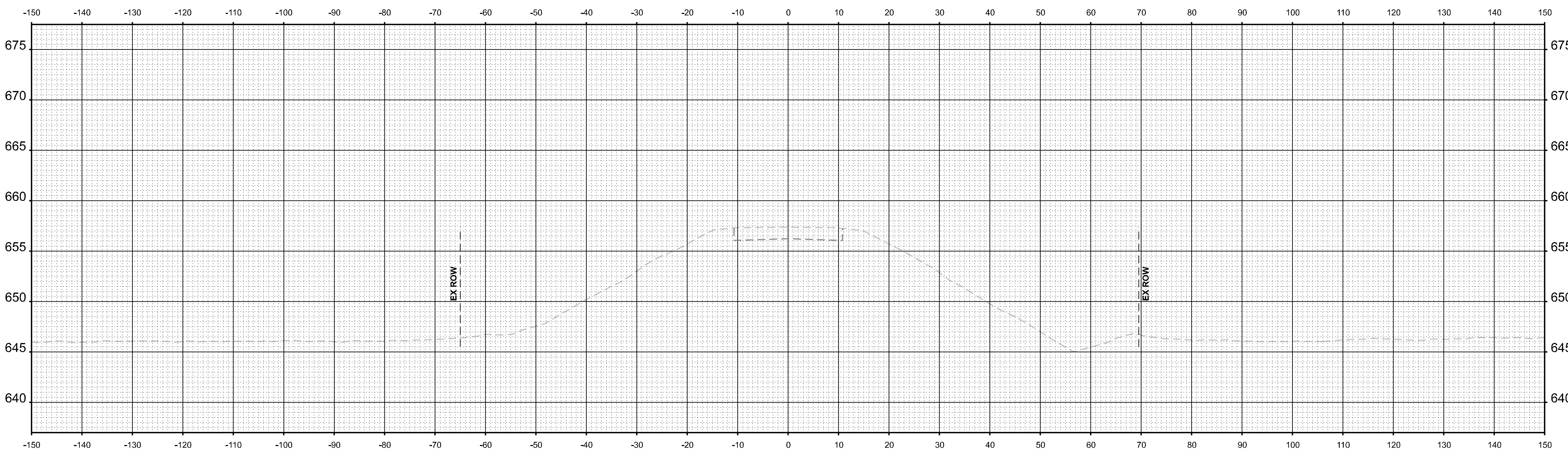
TR 17
CROSS SECTIONS

SCALE: 1"=10' | SHEET 21 OF 22 SHEETS | STA. | TO STA.

F.A. I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(68-5HB-1,2)BRR, BY,D	MONTGOMERY	122	121
		CONTRACT NO. 72A59		
	ILLINOIS	FED. AID PROJECT		



STA 57+50.00



STA 57+00.00

MODEL: TR17 - 57+00.00 [Sheet]
FILE NAME: \\rochelle\drawings\ORD\2121-718D\SN068-0036 Cross section.dgn

FEHR GRAHAM ENGINEERING & ENVIRONMENTAL	USER NAME = mescatel	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
© 2023 FEHR GRAHAM		DRAWN -	REVISED -	
	PLOT SCALE = 0.16666633 ' / in.	CHECKED -	REVISED -	
	PLOT DATE = 8/14/2024	DATE -	REVISED -	

TR 17
CROSS SECTIONS

SCALE: 1"=10' | SHEET 22 OF 22 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(68-5HB-1,2)BRR, BY,D	MONTGOMERY	122	122
		CONTRACT NO. 72A59		
	ILLINOIS	FED. AID PROJECT		