

03-11-2022 LETTING ITEM 065

HIGHWAY CLASSIFICATION

A.D.T. (2019)	9,350	PV = 66.84%
PROJECTED ADT (2039)	10,170	SU = 3.21%
DESIGN SPEED	75	MU = 29.95%
POSTED SPEED	70	
CLASSIFICATION: INTERSTATE		

FOR INDEX OF SHEETS, SEE SHEET NO. 2

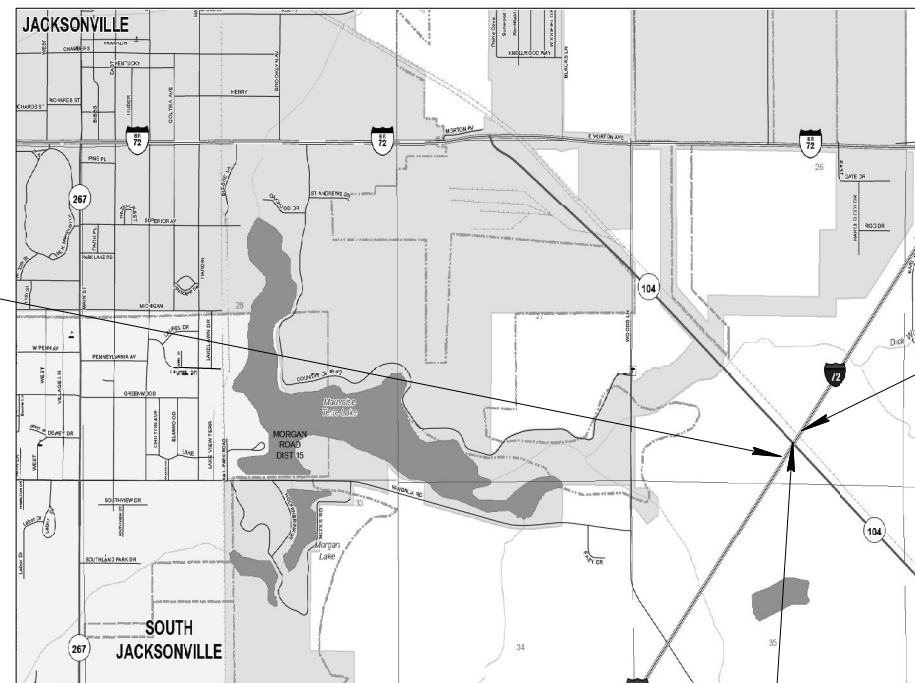
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED
HIGHWAY PLANS

FAI 72 ROUTE I-72
SECTION (69-8) BDR, BRR-2, SLP-1
PROJECT NHPP-AP2A (601)
BRIDGE DECK REPAIR-OVERLAY
MORGAN COUNTY

C-96-007-21

R10W

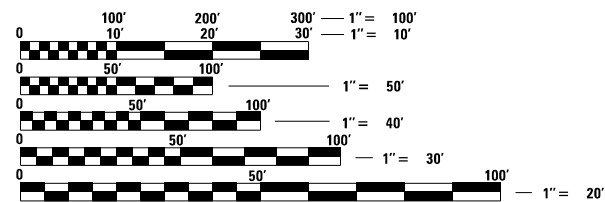


PROJECT BEGINS
EB STA 1196 + 10.00
WB STA 1197 + 75.00

PROJECT ENDS
EB STA 1202 + 25.00
WB STA 1203 + 80.00

EXISTING STRUCTURES
SN 069-0040, SN 069-0041
STA 1199 + 97.00 RT, STA 1200 + 03.60 LT
BRIDGE DECK OVERLAY

GROSS LENGTH = 770.0 FT. = 0.146 MILE
 NET LENGTH = 770.0 FT. = 0.146 MILE



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

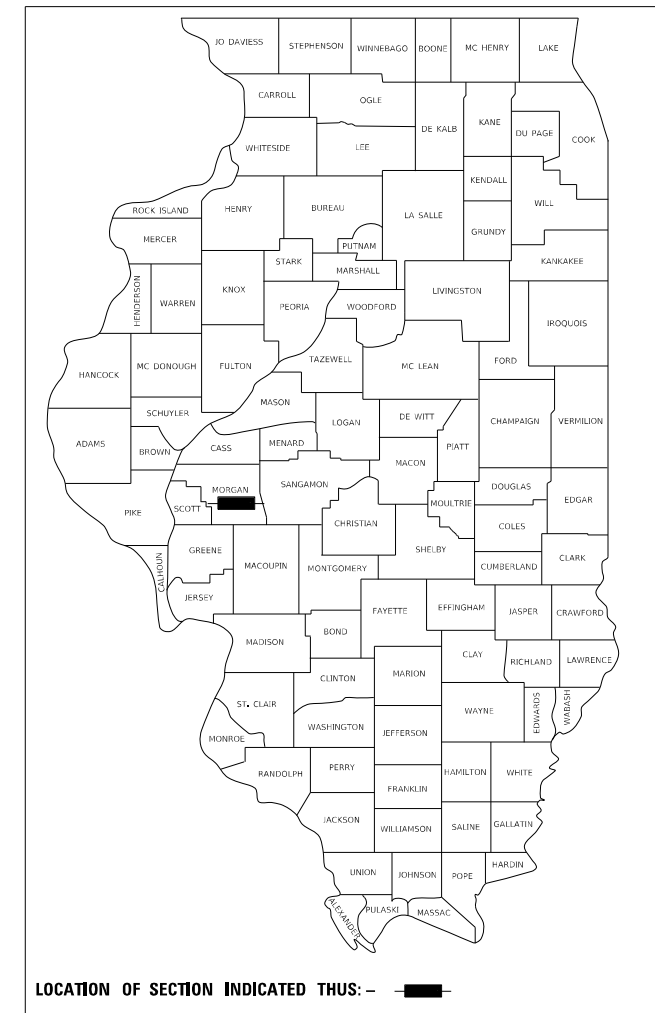
J.U.L.I.E.
 JOINT UTILITY LOCATION INFORMATION FOR EXCAVATORS
 1-800-892-0123
 OR 811

PROJECT ENGINEER JAY EDWARDS (217-785-0597)
 PROJECT MANAGER ROBERT MILES (618-494-4003)

CONTRACT NO. 72M48

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1-722	*	MORGAN	41	1
		ILLINOIS	CONTRACT NO. 72M48	
* (69-8) BDR, BRR-2, SLP-1				

D-96-001-21



LOCATION OF SECTION INDICATED THIS: - [black box] -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

SUBMITTED December 20 2021
Jay P. Myers REGIONAL ENGINEER
 February 4 2022
Robert Miles ENGINEER OF DESIGN AND ENVIRONMENT
 February 4 2022
Stephen M. Lewis DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION 2

PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS

STANDARDS

000001-08	001001-02
630001-12	001006
630301-09	420001-10
631031-17	606001-08
642001-03	701001-02
701201-05	701006-05
701301-04	701101-05
701400-11	701106-02
701402-12	
701406-13	
701426-09	
701901-08	
704001-08	
725001-01	
780001-05	
781001-04	
782006-01	

INDEX OF SHEETS

1	COVER SHEET
2	INDEX OF SHEETS, LISTS OF STANDARDS, GENERAL NOTES AND COMMITMENTS
3-6	SUMMARY OF QUANTITIES
7-8	SCHEDULE OF QUANTITIES
9	ROADWAY TYPICAL SECTIONS
10-12	ROADWAY PLAN SHEETS (3)
13	STAGING TYPICAL SECTIONS
14-27	TRAFFIC CONTROL PLANS (14)
28	WIDTH RESTRICTION SIGNING
29	GRADING AND SHAPING DITCHES DETAIL
30-41	STRUCTURE PLANS (12)

MIXTURE TABLES

Location(s):	I-72	I-72 Shoulders	I-72 Shoulders
MIXTURE USE(S):	HMA SURFACE COURSE	HMA BASE COURSE / SHOULDERS (LOWER LIFT)	HMA SHOULDER (TOP LIFT)
PG:	SBS PG 70-28	PG 64-22	PG 64-22
DESIGN AIR VOIDS:	4.0% @ N70	4.0% @ N50	4.0% @ N50
Mixture Composition:	IL-9.5	IL-19.0	IL-9.5
FRICTION AGGREGATE:	MIX "D"	N/A	MIX "C"
Quality Management:	QC/QA	QC/QA	QC/QA
Mixture Sublot Size:	N/A	N/A	N/A

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
DISTRICT 6**

EXAMINED December 14 20 21
[Signature]
ENGINEER OF OPERATIONS

EXAMINED December 16 20 21
[Signature]
ENGINEER OF PROJECT IMPLEMENTATION

EXAMINED December 13 20 21
[Signature]
ENGINEER OF PROGRAM DEVELOPMENT

GENERAL NOTES

- 1 SYNTHETIC FIBERS ARE NOT REQUIRED IN THE BRIDGE DECK MICROSILICA CONCRETE OVERLAY.

RATE TABLE

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

BITUMINOUS MATERIALS (TACK COAT):	0.05 LBS/SQ FT (MILLING)
	0.025 LBS/SQ FT (HMA LIFTS)
HMA SURFACE MIX "D":	0.056 TONS/SQ YD

COMMITMENTS

NONE

REV. - MS

MOEEL: Default
FILE: NameE: p:\bllder-29\benfrey.com-PWIDOT\Documents\DOT Offices\District 6\Projects\0672M48\CADDData\CAD\kwest\0672M48-shr-cgen.mxd.dgn

USER NAME = milesra	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	INDEX OF SHEETS, HIGHWAY STANDARDS, AND GENERAL NOTES	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
	DRAWN -	REVISED -			72	*	MORGAN	41	2	
PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -			CONTRACT NO. 72M48					
PLOT DATE = 12/17/2021	DATE -	REVISED -			SCALE: N/A	SHEET 1	OF 1	SHEETS	STA. N/A	TO STA. N/A

* (69-8) BDR, BRR-2, SLP-1

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	90% FED 10% STATE	
				6 - 00721 - 0000	
				BRIDGE 0059 069 - 0040	BRIDGE 0059 069 - 0041
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	1166	589	577
40600370	LONGITUDINAL JOINT SEALANT	FOOT	285	142	143
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	1269	635	634
40600990	TEMPORARY RAMP	SQ YD	54	27	27
40604162	POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N70	TON	76	38	38
42001300	PROTECTIVE COAT	SQ YD	2510	1255	1255
44000173	HOT-MIX ASPHALT SURFACE REMOVAL, 6"	SQ YD	1220	618	602
48203015	HOT-MIX ASPHALT SHOULDERS, 4 1/2"	SQ YD	1220	618	602
48203100	HOT-MIX ASPHALT SHOULDERS	TON	103	52	51
50102400	CONCRETE REMOVAL	CU YD	17.7	8.8	8.9
50157300	PROTECTIVE SHIELD	SQ YD	747	373	374
50300255	CONCRETE SUPERSTRUCTURE	CU YD	20.8	10.4	10.4
50500405	FURNISHING AND ERECTING STRUCTURAL STEEL	POUND	4690	2345	2345

MODEL: Default
 FILE: MainE - pva\ludac-246\benfley.com\PHWDOT\Documents\DOT Offices\District 6\Projects\0672M48\CADD\Drawings\0672M48-shs-S00.dwg

REV. - MS

USER NAME = milesra	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SCHEDULES				F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
DRAWN -	REVISIED -	72						*	MORGAN	41	3	
PLOT SCALE = 2.0000' / in.	CHECKED -	REVISIED -		SCALE: N/A	SHEET 1	OF 4 SHEETS	STA. N/A	TO STA. N/A	CONTRACT NO. 72M48			
PLOT DATE = 12/17/2021	DATE -	REVISIED -		ILLINOIS FED. AID PROJECT * (69-8) BDR, BRR-2, SLP-1								

				6-00721-0000	
				90% FED 10% STATE	
CODE NO.	ITEM	UNIT	TOTAL QUANTITY	BRIDGE	BRIDGE
				0059	0059
				069-0040	069-0041
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	3840	1920	1920
50800515	BAR SPLICERS	EACH	40	20	20
52000110	PREFORMED JOINT STRIP SEAL	FOOT	163	81.5	81.5
52100010	ELASTOMERIC BEARING ASSEMBLY, TYPE I	EACH	24	12	12
52100520	ANCHOR BOLTS, 1"	EACH	48	24	24
59300100	CONTROLLED LOW-STRENGTH MATERIAL	CU YD	98	49	49
60260100	INLETS TO BE ADJUSTED	EACH	8	4	4
60600605	CONCRETE CURB, TYPE B	FOOT	60	30	30
* 63000001	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	FOOT	450	200	250
* 63100085	TRAFFIC BARRIER TERMINAL, TYPE 6	EACH	2	1	1
* 63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	2	1	1
63200310	GUARDRAIL REMOVAL	FOOT	615	282	333
64200116	SHOULDER RUMBLE STRIPS, 16 INCH	FOOT	1373	697	676
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	12	6	6

* SPECIALTY ITEM

REV. - MS

MODEL: Default
 FILE NAME: p:\bridge-sw\benfley.com\PHWDOT\Documents\DOT Offices\District 6\Projects\0672M48\CADD\Drawings\0672M48-shs-S00.dwg

USER NAME = milesra	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SCHEDULES				F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
DRAWN -	REVISED -	72						*	MORGAN	41	4	
PLOT SCALE = 2.0000' / in.	CHECKED -	REVISED -		SCALE: N/A	SHEET 2	OF 4	SHEETS	STA. N/A	TO STA. N/A	CONTRACT NO. 72M48		
PLOT DATE = 12/17/2021	DATE -	REVISED -		ILLINOIS FED. AID PROJECT * (69-8) BDR, BRR-2, SLP-1								

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	90% FED 10% STATE	
				6-00721-0000	
				BRIDGE 0059 069-0040	BRIDGE 0059 069-0041
67100100	MOBILIZATION	L SUM	1	0.5	0.5
70100207	TRAFFIC CONTROL AND PROTECTION, STANDARD 701402	EACH	2	1	1
70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	L SUM	1	0.5	0.5
70100700	TRAFFIC CONTROL AND PROTECTION, STANDARD 701406	L SUM	1	0.5	0.5
70107025	CHANGEABLE MESSAGE SIGN	CAL DA	14	7	7
70400100	TEMPORARY CONCRETE BARRIER	FOOT	1252	626	626
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	1252	626	626
70600260	IMPACT ATTENUATORS, TEMPORARY (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3	EACH	2	1	1
70600332	IMPACT ATTENUATORS, RELOCATE (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3	EACH	2	1	1
* 72501000	TERMINAL MARKER - DIRECT APPLIED	EACH	2	1	1
* 78009005	MODIFIED URETHANE PAVEMENT MARKING - LINE 5"	FOOT	2746	1384	1362
* 78200005	GUARDRAIL REFLECTORS, TYPE A	EACH	8	4	4
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	8	4	4
78300202	PAVEMENT MARKING REMOVAL - WATER BLASTING	SQ FT	510	257	253

* SPECIALTY ITEM

REV. - MS

MODEL: Default
 FILE NAME: p:\bridge-sw-bentley.com\PROJECTS\DOT Offices\District 6\Projects\0672M48\CADD\Drawings\0672M48-sh-500.dwg

USER NAME = milesra	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SCHEDULES				F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
DRAWN -	REVISOR -	72						*	MORGAN	41	5	
PLOT SCALE = 2.0000' / in.	CHECKED -	REVISOR -		SCALE: N/A				SHEET 3 OF 4 SHEETS		STA. N/A	TO STA. N/A	
PLOT DATE = 12/17/2021	DATE -	REVISOR -		ILLINOIS FED. AID PROJECT * (69-8) BDR, BRR-2, SLP-1								

				6-00721-0000	
				90% FED 10% STATE	
CODE NO.	ITEM	UNIT	TOTAL QUANTITY	BRIDGE	BRIDGE
				0059	0059
				069-0040	069-0041
X2140100	GRADING AND SHAPING DITCHES, SPECIAL	FOOT	668	256	412
X5030250	BRIDGE DECK GROOVING (LONGITUDINAL)	SQ YD	1431	715	716
X7200201	WIDTH RESTRICTION SIGNING	L SUM	1	0.5	0.5
Z0001899	JACK AND REMOVE EXISTING BEARINGS	EACH	24	12	12
Z0001905	STRUCTURAL STEEL REPAIR	POUND	6050	3025	3025
Z0012144	BRIDGE DECK SCARIFICATION 2 1/2"	SQ YD	2238	1119	1119
Z0012166	BRIDGE DECK MICROSILICA CONCRETE OVERLAY 2 3/4"	SQ YD	2238	1119	1119
Z0016001	DECK SLAB REPAIR (FULL DEPTH, TYPE I)	SQ YD	2	0	2
Z0016002	DECK SLAB REPAIR (FULL DEPTH, TYPE II)	SQ YD	39	8	31
Z0041895	POLYMER CONCRETE	CU FT	5.6	2.8	2.8
Z0029090	DIAMOND GRINDING (BRIDGE SECTION)	SQ YD	2337	1168	1169
∅ Z0076600	TRAINEES	HOUR	1500	1500	
Z0048665	RAILROAD PROTECTIVE LIABILITY INSURANCE	L SUM	1	0.5	0.5
∅ Z0076604	TRAINEES TRAINING PROGRAM GRADUATE	HOUR	1500	1500	
Z0065700	SLOPE WALL REPAIR	SQ YD	105	52.5	52.5

∅ 0042

MODEL: Default
 FILE: MainE - pva\ludac-24\benfley.com\PHWDOT\Documents\DOT Offices\District 6\Projects\0672M48\CADD\Drawings\0672M48-shs-S004.dgn

REV. - MS

USER NAME = milesra	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SCHEDULES				F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
DRAWN -	REVISED -	72						*	MORGAN	41	6	
PLOT SCALE = 2.0000' / in.	CHECKED -	REVISED -		SCALE: N/A				CONTRACT NO. 72M48				
PLOT DATE = 12/17/2021	DATE -	REVISED -		SHEET 4 OF 4 SHEETS				ILLINOIS FED. AID PROJECT (69-8) BDR, BRR-2, SLP-1				

PAVEMENT REMOVAL SCHEDULE						
LOCATION			40600982	44000173	NOTES	
			HMA SURFACE REMOVAL - BJ	HOT-MIX ASPHALT SURFACE REMOVAL, 6"		
			SQ YD	SQ YD		
I-72 EB						
STA	1196+10.0	TO	1198+62.0	OUTSIDE SHLDR	280	
STA	1196+10.0	TO	1198+64.5	INSIDE SHLDR	170	
STA	1197+92.0	TO	1198+62.0	MAINLINE	193	
STA	1201+31.4	TO	1202+01.4	MAINLINE	189	
STA	1201+29.3	TO	1202+25.0	OUTSIDE SHLDR	106	
STA	1201+31.4	TO	1202+25.0	INSIDE SHLDR	62	
STA	1197+92.0	TO	1198+64.5	INSIDE-STAGE 1	48	
STA	1197+92.0	TO	1198+62.0	OUTSIDE-STAGE 2	78	
STA	1201+31.4	TO	1202+01.4	INSIDE-STAGE 1	47	
STA	1201+29.3	TO	1202+01.4	OUTSIDE-STAGE 2	80	
I-72 WB						
STA	1197+75.0	TO	1198+71.4	OUTSIDE SHLDR	107	
STA	1197+75.0	TO	1198+69.0	INSIDE SHLDR	63	
STA	1197+99.0	TO	1198+69.0	MAINLINE	192	
STA	1201+38.3	TO	1202+08.3	MAINLINE	189	
STA	1201+38.3	TO	1203+80.0	OUTSIDE SHLDR	269	
STA	1201+35.9	TO	1203+80.0	INSIDE SHLDR	163	
STA	1197+99.0	TO	1198+69.0	INSIDE-STAGE 1	47	
STA	1197+99.0	TO	1198+71.4	OUTSIDE-STAGE 2	80	
STA	1201+35.9	TO	1202+08.3	INSIDE-STAGE 1	48	
STA	1201+38.3	TO	1202+08.3	OUTSIDE-STAGE 2	78	
TOTAL					1269	1220

PAVEMENT MARKINGS SCHEDULE					
LOCATION			78009005	78300202	NOTES
			MODIFIED URETHANE PAVEMENT MARKING LINE 5"	PAVEMENT MARKING REMOVAL - WATER BLASTING	
			FOOT	SQ FT	
I-72 EB					
STA	1196+10.0	TO	1202+25.0	257	5" EDGE LINE (OUTSIDE) EB
STA	1196+10.0	TO	1202+25.0	615	FINAL EDGE LINE (WHITE) EB
STA	1196+10.0	TO	1202+25.0	154	FINAL CENTERLINE EB
STA	1196+10.0	TO	1202+25.0	615	FINAL EDGE LINE (YELLOW) EB
I-72 WB					
STA	1197+75.0	TO	1203+80.0	253	5" EDGE LINE (OUTSIDE) WB
STA	1197+75.0	TO	1203+80.0	605	FINAL EDGE LINE (WHITE) WB
STA	1197+75.0	TO	1203+80.0	152	FINAL CENTERLINE WB
STA	1197+75.0	TO	1203+80.0	605	FINAL EDGE LINE (YELLOW) WB
TOTAL			2746	510	

TEMPORARY RAMP SCHEDULE		
LOCATION	40600990	NOTES
	TEMPORARY RAMP	
	SQ YD	
SN 069-0040	27	ASSUMED 6' LENGTH
SN 069-0041	27	ASSUMED 6' LENGTH
TOTAL	54	

Grading and Shaping Ditches Schedule		
LOCATION	X2140100	NOTES
	GRADING AND SHAPING DITCHES, SPECIAL	
	FOOT	
STA 79+52 LT TO 82+12 LT	261	IL 104 ALIGNMENT
STA 77+67 LT TO 81+95 LT	407	IL 104 ALIGNMENT
TOTAL	668	

RAISED REFLECTIVE PM SCHEDULE				
LOCATION			78300200	
			RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	
			EACH	
I-72 EB				
STA	1197+92.0	TO	1198+62.0	2
STA	1201+31.4	TO	1202+01.4	2
I-72 WB				
STA	1197+99.0	TO	1198+69.0	2
STA	1201+38.3	TO	1202+08.3	2
TOTAL			8	

TEMPORARY CONCRETE BARRIER		
ACTIVITY/ STAGE	70400100	70400200
	TEMPORARY CONCRETE BARRIER	RELOCATE TEMPORARY CONCRETE BARRIER
	FOOT	FOOT
SN 069-0040 STAGE 1	626	
SN 069-0040 STAGE 1	626	
SN 069-0041 STAGE 2		626
SN 069-0041 STAGE 2		626
TOTAL	1252	1252

MODEL: Default
 FILE: M:\E:\pva\ludac-szw\benlley.com\PHWDOT\Documents\DOT Offices\District 6\Projects\0672M48\CADD\0672M48-SPH-schedule.dgn

USER NAME = milesra	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 2.0000' / in.	CHECKED -	REVISED -
PLOT DATE = 12/17/2021	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SCHEDULE OF QUANTITIES			
SCALE: N/A	SHEET 1	OF 2 SHEETS	STA. N/A TO STA. N/A
F.A.I. RTE. 72 SECTION * COUNTY MORGAN TOTAL SHEETS 41 SHEET NO. 7			
CONTRACT NO. 72M48			

ILLINOIS FED. AID PROJECT
 * (69-8) BDR, BRR-2, SLP-1

HMA SCHEDULE											
LOCATION				40600290 BITUMINOUS MATERIALS (TACK COAT) POUND	40600370 LONGITUDINAL JOINT SEALANT FOOT	40604162 POLYMERIZED HMA SURFACE COURSE. 1L 9.5 MIX"D", N70 TON	48203015 HMA ASPHALT SHLDR, 4.5" SQ YD	48203100 HMA ASPHALT SHOULDERS TON	64200116 SHOULDER RUMBLE STRIPS, 16 INCH FOOT	NOTES	
<i>I-72 EB</i>											
STA	1196+10.0	TO	1198+62.0	OUTSIDE SHLDR	189		280	23.5	252		
STA	1196+10.0	TO	1198+64.5	INSIDE SHLDR	115		170	14.3	255		
STA	1197+92.0	TO	1198+62.0	MAINLINE	87	71	19.0			BUTT JOINT	
STA	1201+31.4	TO	1202+01.4	MAINLINE	85	71	19.0			BUTT JOINT	
STA	1201+29.3	TO	1202+25.0	OUTSIDE SHLDR	72		106	8.9	96		
STA	1201+31.4	TO	1202+25.0	INSIDE SHLDR	42		62	5.2	94		
<i>I-72 WB</i>											
STA	1197+75.0	TO	1198+71.4	OUTSIDE SHLDR	72		107	9.0	96		
STA	1197+75.0	TO	1198+69.0	INSIDE SHLDR	42		63	5.3	94		
STA	1197+99.0	TO	1198+69.0	MAINLINE	86	71	19.0			BUTT JOINT	
STA	1201+38.3	TO	1202+08.3	MAINLINE	85	72	19.0			BUTT JOINT	
STA	1201+38.3	TO	1203+80.0	OUTSIDE SHLDR	181		269	22.6	242		
STA	1201+35.9	TO	1203+80.0	INSIDE SHLDR	110		163	13.7	244		
TOTAL					1166	285	76	1220	103	1373	

GUARDRAIL SCHEDULE									
LOCATION				63000001 STEEL PLATE GUARDRAIL TYPE A, 6' POSTS FOOT	63100085 TRAFFIC BARRIER TERMINAL, TYPE 6 EACH	63100167 TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) EACH	63200310 GUARDRAIL REMOVAL FOOT	7250100 TERMINAL MARKER-DIRECT APPLIED EACH	78200005 GUARDRAIL REFLECTORS, TYPE A EACH
<i>I-72 EB</i>									
STA	1195+77.0	TO	1198+59.4 (OUTSIDE)	192.7	1	1	282	1	4
<i>I-72 WB</i>									
STA	1201+41.2	TO	1204+74.5 (OUTSIDE)	244.7	1	1	333	1	4
TOTAL				437.4	2	2	615	2	8
USE				450					

TYPE B CURB SCHEDULE					
LOCATION				60600605 CONCRETE CURB, TYPE B FOOT	NOTES
<i>I-72 EB</i>					
STA	1198+42.3	TO	1198+57.3 (OUTSIDE)	15	BRIDGE APPROACH CURB UNDER PR GUARDRAIL
STA	1198+44.4	TO	1198+59.4 (INSIDE)	15	BRIDGE APPROACH CURB UNDER EX GUARDRAIL
<i>I-72 WB</i>					
STA	1201+43.4	TO	1201+58.4 (OUTSIDE)	15	BRIDGE APPROACH CURB UNDER PR GUARDRAIL
STA	1201+41.2	TO	1201+56.2 (INSIDE)	15	BRIDGE APPROACH CURB UNDER EX GUARDRAIL
TOTAL				60	

ADJUSTMENTS SCHEDULE	
LOCATION	60260100 INLETS TO BE ADJUSTED EACH
SN 069-0040 EAST ABUTMENT	2
WEST ABUTMENT	2
SN 069-0041 EAST ABUTMENT	2
WEST ABUTMENT	2
TOTAL	8

MODEL: Default
 FILE: M:\E:\proj\ludor-szw\benitez.com\PHWDOT\Documents\DOT Offices\District 6\Projects\0672M48\CADD\0672M48-SP-Schedule.dgn

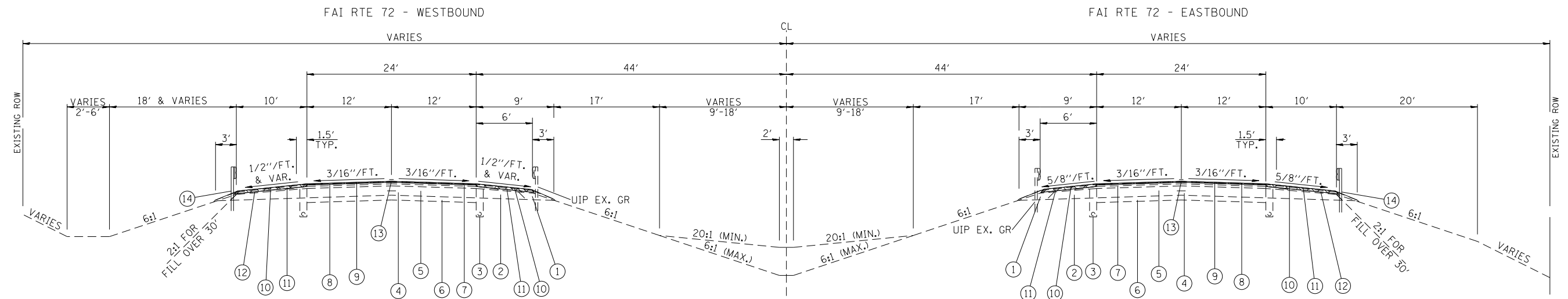
USER NAME = milesra	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 2.0000' / in.	CHECKED -	REVISED -
PLOT DATE = 12/17/2021	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES

SCALE: N/A SHEET 2 OF 2 SHEETS STA. N/A TO STA. N/A

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
72	*	MORGAN	41	8
CONTRACT NO. 72M48				
ILLINOIS FED. AID PROJECT				



I-72 TYPICAL SECTION

BUTT JOINTS

* WB - STA 1197+99.00 TO STA 1198+70.08
 STA 1201+36.97 TO STA 1202+08.30
 ** EB - STA 1197+92.00 TO STA 1198+63.38
 STA 1201+30.42 TO STA 1202+01.39

SHOULDER REPLACEMENT

WB - STA 1197+75.00 TO STA 1198+70.08
 STA 1201+36.97 TO STA 1203+80.00
 EB - STA 1196+10.00 TO STA 1198+63.38
 STA 1201+30.42 TO STA 1202+25.00

BRIDGE OMISSIONS

WB - STA 1198+70.08 TO STA 1201+36.97
 EB - STA 1198+63.38 TO STA 1201+30.42

NOTES

- * EXISTING HMA, 3 1/2"
- ** EXISTING HMA, 3 3/4"
- SEE PLAN SHEETS FOR DETAILED STATIONING

LEGEND

- ① EXISTING AGGREGATE SHOULDER
- ② EXISTING STABILIZED SHOULDER, 8"
- ③ EXISTING SUB-SURFACE DRAIN
- ④ EXISTING CONTINUOUSLY REINFORCED PCC PAVEMENT, 8"
- ⑤ EXISTING LONGITUDINAL JOINT
- ⑥ EXISTING STABILIZED SUB-BASE, 4"
- ⑦ EXISTING HMA (SEE NOTE)
- ⑧ PROPOSED HMA REMOVAL (BUTT JOINT)
- ⑨ PROPOSED POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE IL-9.5, MIX "D", N70 (1 3/4")
- ⑩ PROPOSED HMA SHOULDERS 1 1/2"
- ⑪ PROPOSED HMA SURFACE REMOVAL, 6"
- ⑫ PROPOSED HMA SHOULDERS 4 1/2"
- ⑬ PROPOSED LONGITUDINAL JOINT SEAL
- ⑭ PROPOSED GUARDRAIL (REMOVE AND REPLACE)

MODEL: Default
 FILE: MainE_pxl\lidesw_bentley.com\PHWDOT\Documents\DOT Offices\District 6\Projects\0672M48\CADD\DATA\CAD\keys\0672M48-shc-typical.dgn

USER NAME = milesra	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 12/17/2021	DATE -	REVISED -

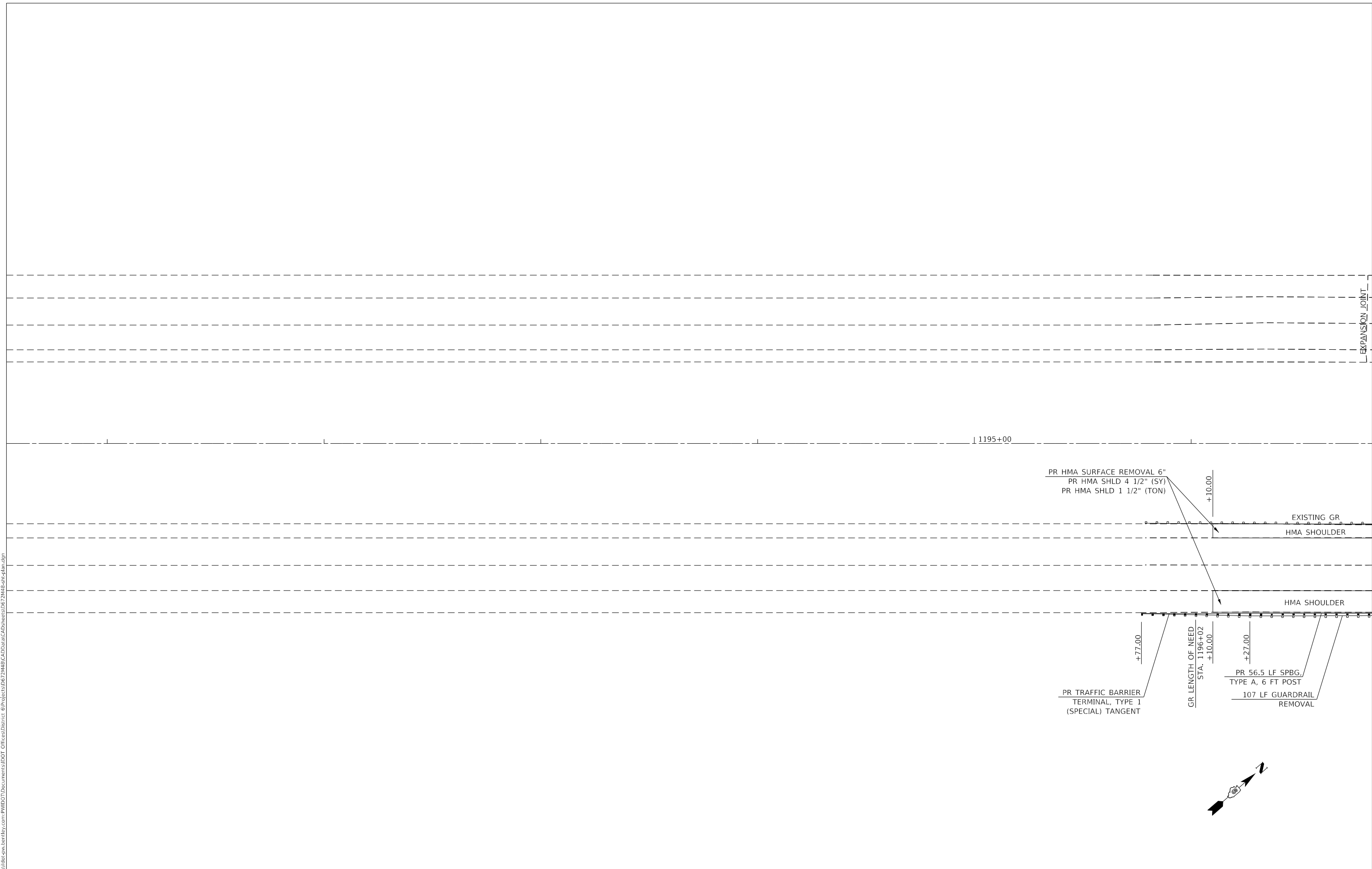
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**TYPICAL SECTIONS
 FAI ROUTE 72**

SCALE: N/A SHEET 1 OF 1 SHEETS STA. N/A TO STA. N/A

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
72	*	MORGAN	41	9
			CONTRACT NO. 72M48	
		ILLINOIS	FED. AID PROJECT	

MODEL: Default
 FILE: MainE_pva\luldet-sw_bentley.com:PWIDOT\Documents\DOT Offices\District 6\Projects\0672M48\CADD\Drawings\0672M48-sh-1-plan.dgn



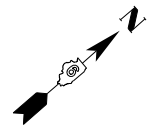
USER NAME = milesra	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 12/17/2021	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PLAN SHEET
FAI ROUTE 72

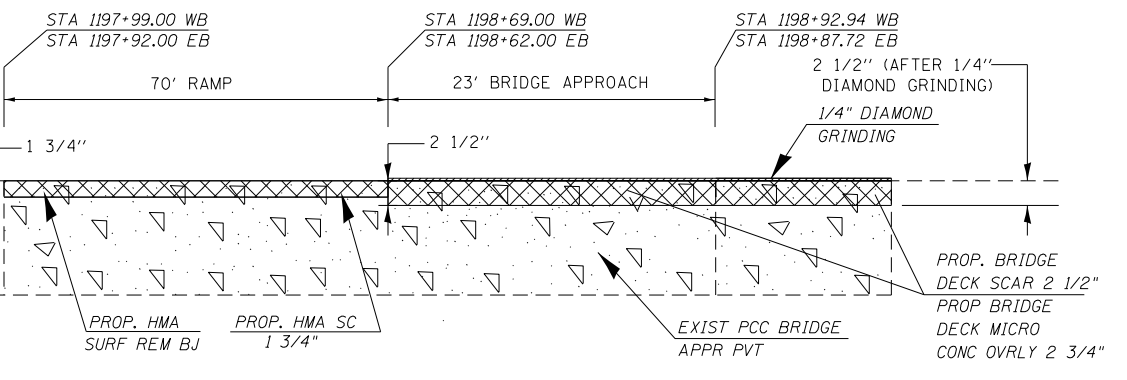
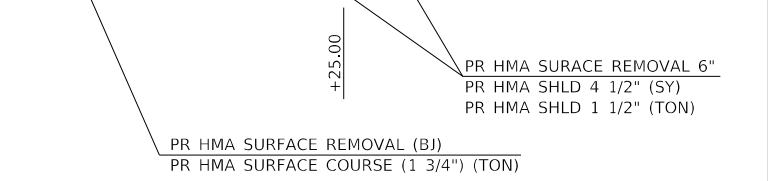
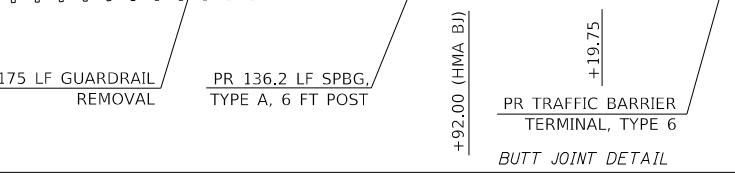
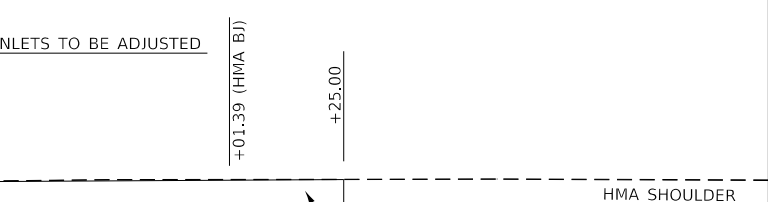
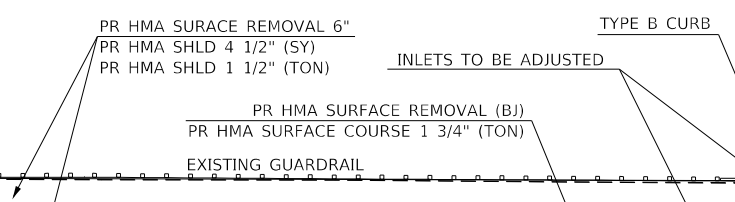
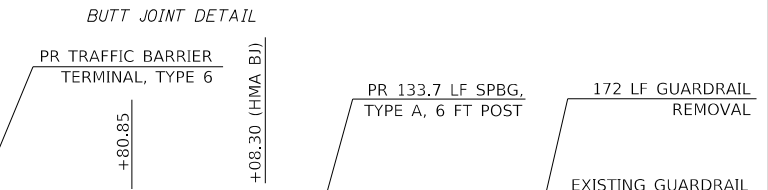
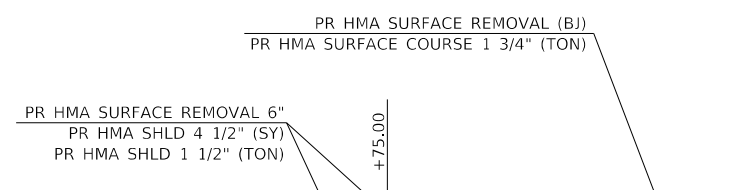
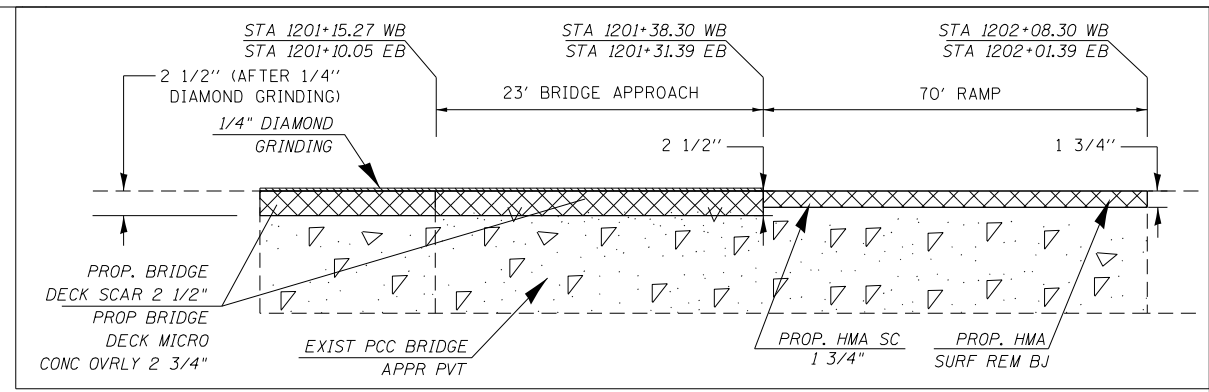
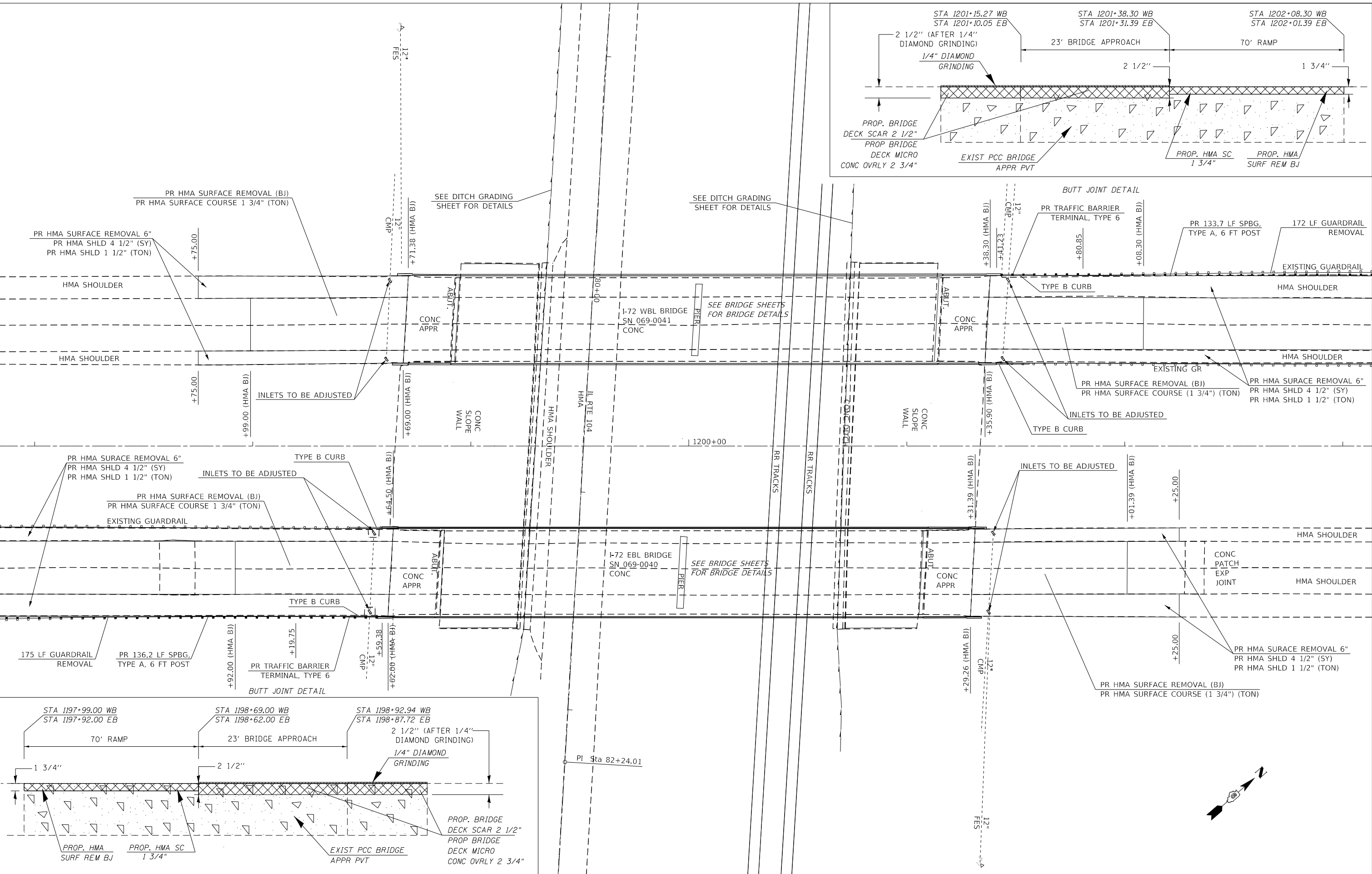
SCALE: 20 SHEET 1 OF 3 SHEETS STA. 1190+46.48 TO STA. 1196+83.52

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
72	*	MORGAN	41	10
CONTRACT NO. 72M48				



* (69-8) BDR, BRR-2, SLP-1

MODEL: I:\default
 FILE: M:\E:\p\blldes-cw\benefit\com\PHWDOT\Documents\DOT Office\District 6\Projects\0672M48\CADD\DATA\CAD\INVEST\0672M48-SH-PLAN.dgn



USER NAME = milesra	DESIGNED -	REVISED -
PLOT SCALE = 40.0000' / in.	DRAWN -	REVISED -
PLOT DATE = 12/17/2021	CHECKED -	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

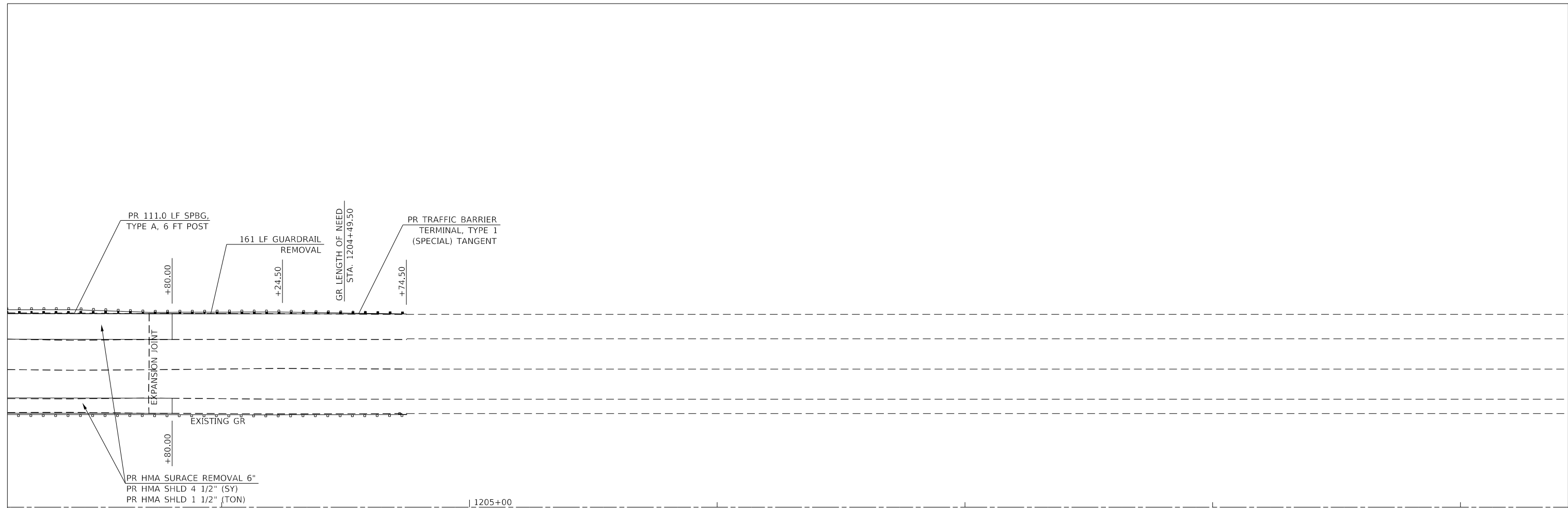
SCALE: 20 SHEET 2 OF 3 SHEETS STA. 1196+83.52 TO STA. 1203+13.52

PLAN SHEET
FAI ROUTE 72

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
72	*	MORGAN	41	11
CONTRACT NO. 72M48				
ILLINOIS FED. AID PROJECT				

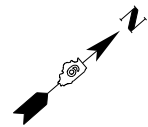
(69-8) BDR, BRR-2, SLP-1

MODEL: Default
 FILE: MainE_Plan\Ildot-sw_bentley.com\PROJECTS\DOT Offices\District 6\Projects\0672M48\CADD\DATA\CAD\Access\0672M48-shc-plan.dgn



PR HMA SURFACE REMOVAL 6"
 PR HMA SHLD 4 1/2" (SY)
 PR HMA SHLD 1 1/2" (TON)

1205+00



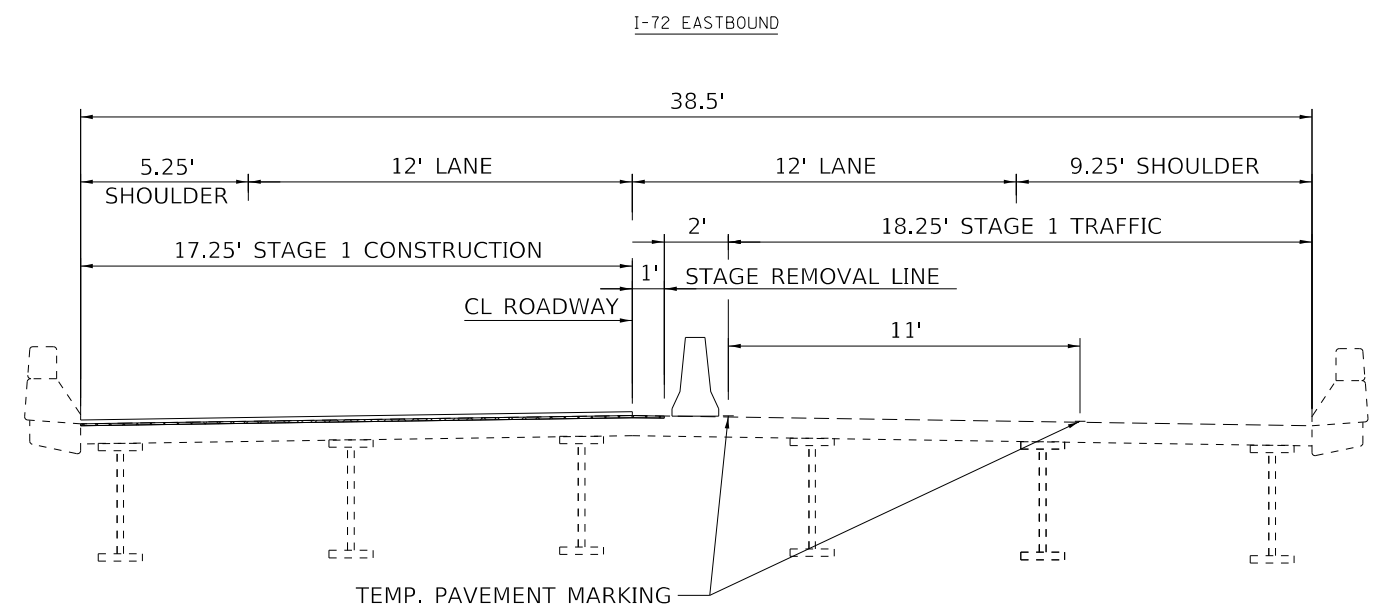
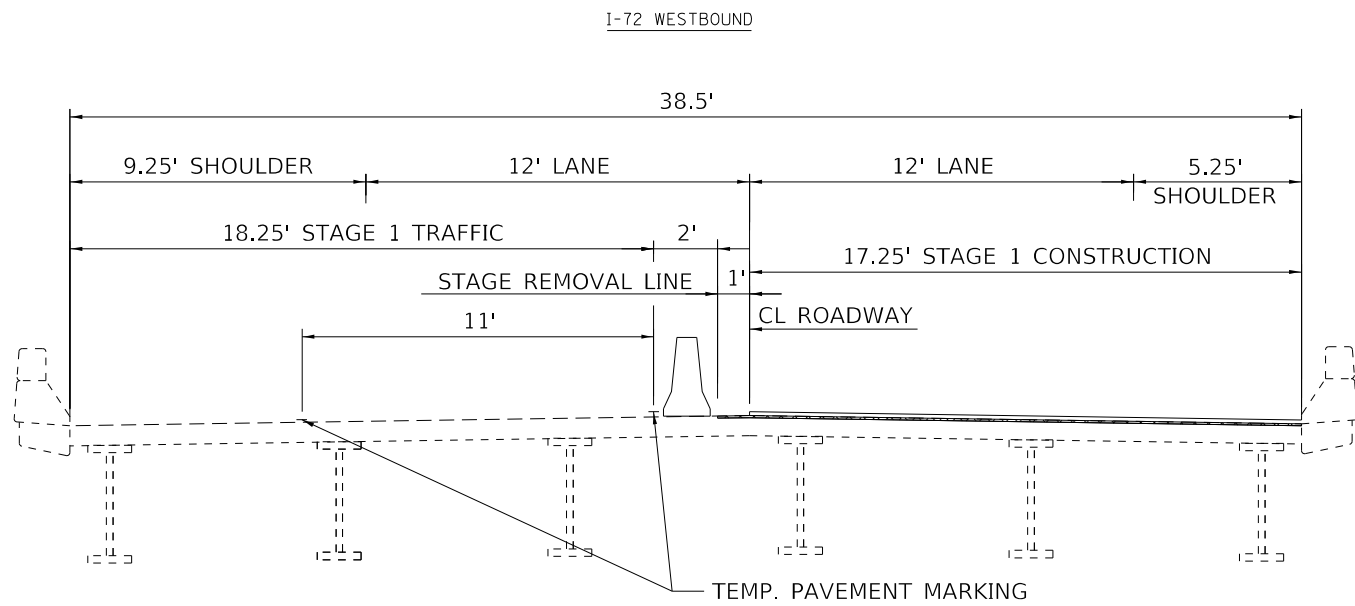
USER NAME = milesra	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 40.0000' / in.	CHECKED -	REVISED -
PLOT DATE = 12/17/2021	DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

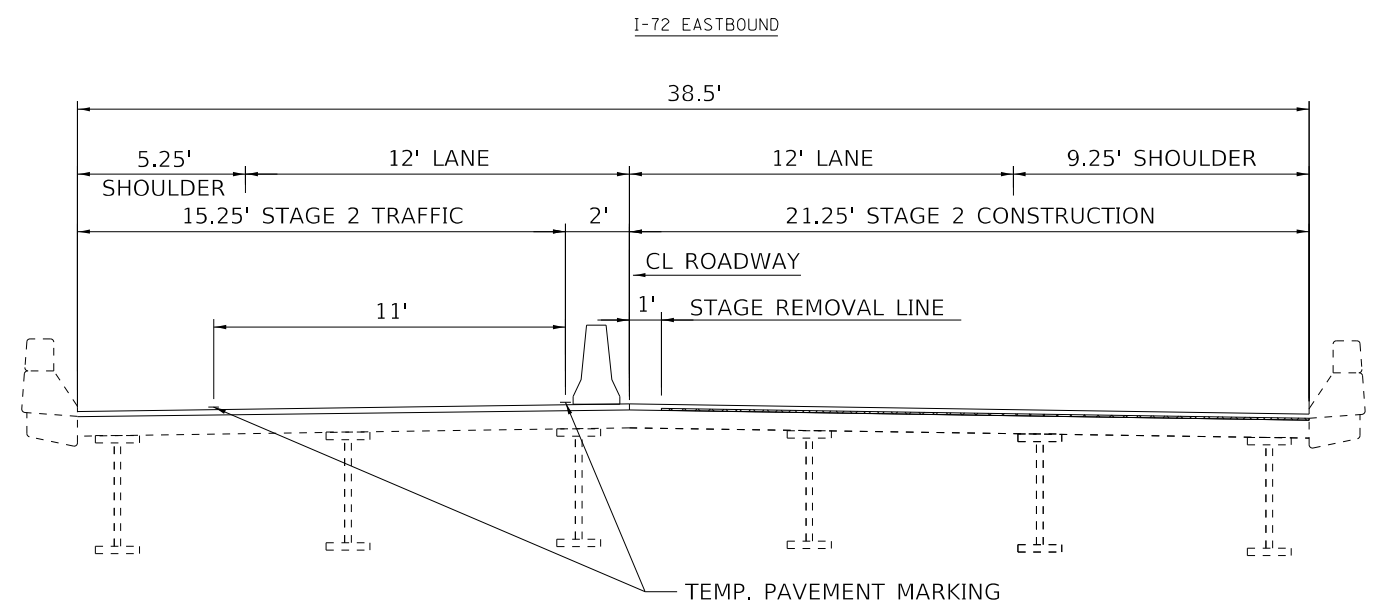
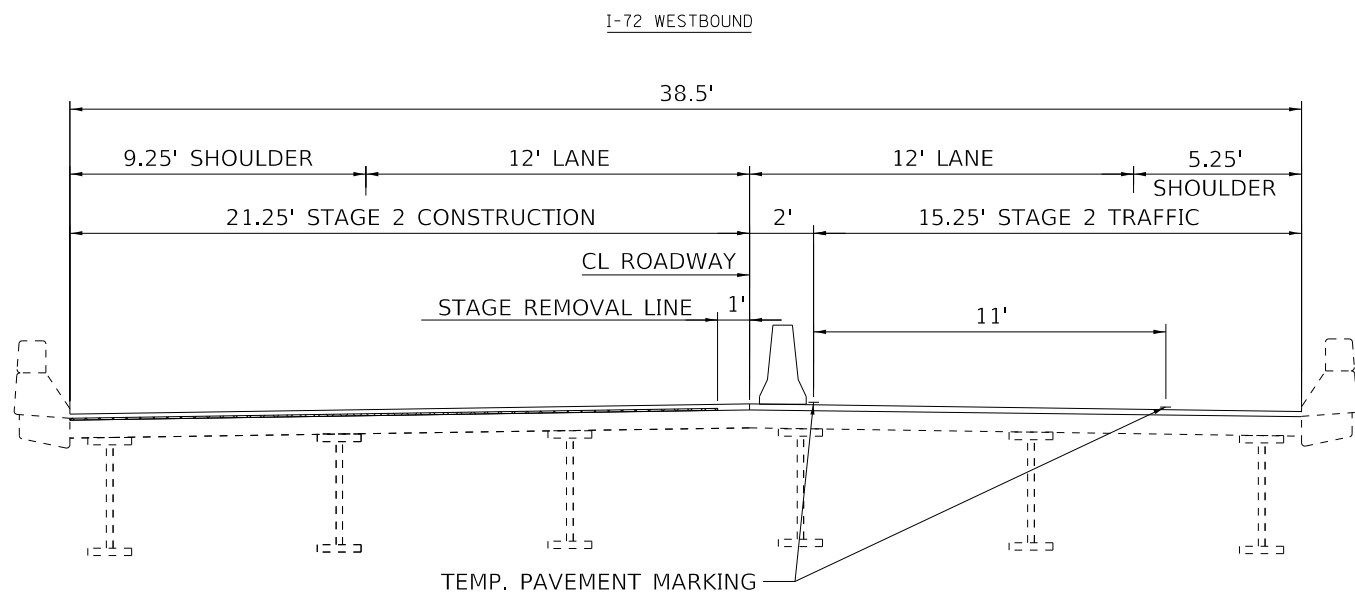
PLAN SHEET FAI ROUTE 72	
SCALE: 20	SHEET 3 OF 3 SHEETS
STA. 1203+13.52 TO STA. 1209+43.52	

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
72	*	MORGAN	41	12
CONTRACT NO. 72M48				
ILLINOIS FED. AID PROJECT				

* (69-8) BDR, BRR-2, SLP-1



STAGE 1 BRIDGE TYPICAL SECTION



STAGE 2 BRIDGE TYPICAL SECTION

MODEL: Default
 FILE NAME: p:\i\lides-2w_bentley.com\PROJECTS\DOT\Office\District_6\Projects\0672M48\CADD\DATA\CAD\INVEST\0672M48-shc-staging-tyr\cals.dgn

USER NAME = milesra	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 60.0000' / in.	CHECKED -	REVISED -
PLOT DATE = 12/17/2021	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**STAGING TYPICAL SECTIONS
FAI ROUTE 72**

SCALE: N/A SHEET 1 OF 1 SHEETS STA. N/A TO STA. N/A

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
72	*	MORGAN	41	13
ILLINOIS FED. AID PROJECT			CONTRACT NO. 72M48	

(69-8) BDR, BRR-2, SLP-1

1180+00

← ADVANCE SIGNAGE IN ACCORDANCE TO STANDARD 701400

DIRECTION INDICATOR BARRICADE WITH STEADY BURN MONODIRECTIONAL LIGHT

DEVICES AT 50' CTS.

Model: Default
File: \\milesra\pwworkspace\pwworkspace\pwworkspace\DOT_Civil\as\District_6\Projects\DOT72M48\CAD\Drawings\DOT72M48_sht.ctb

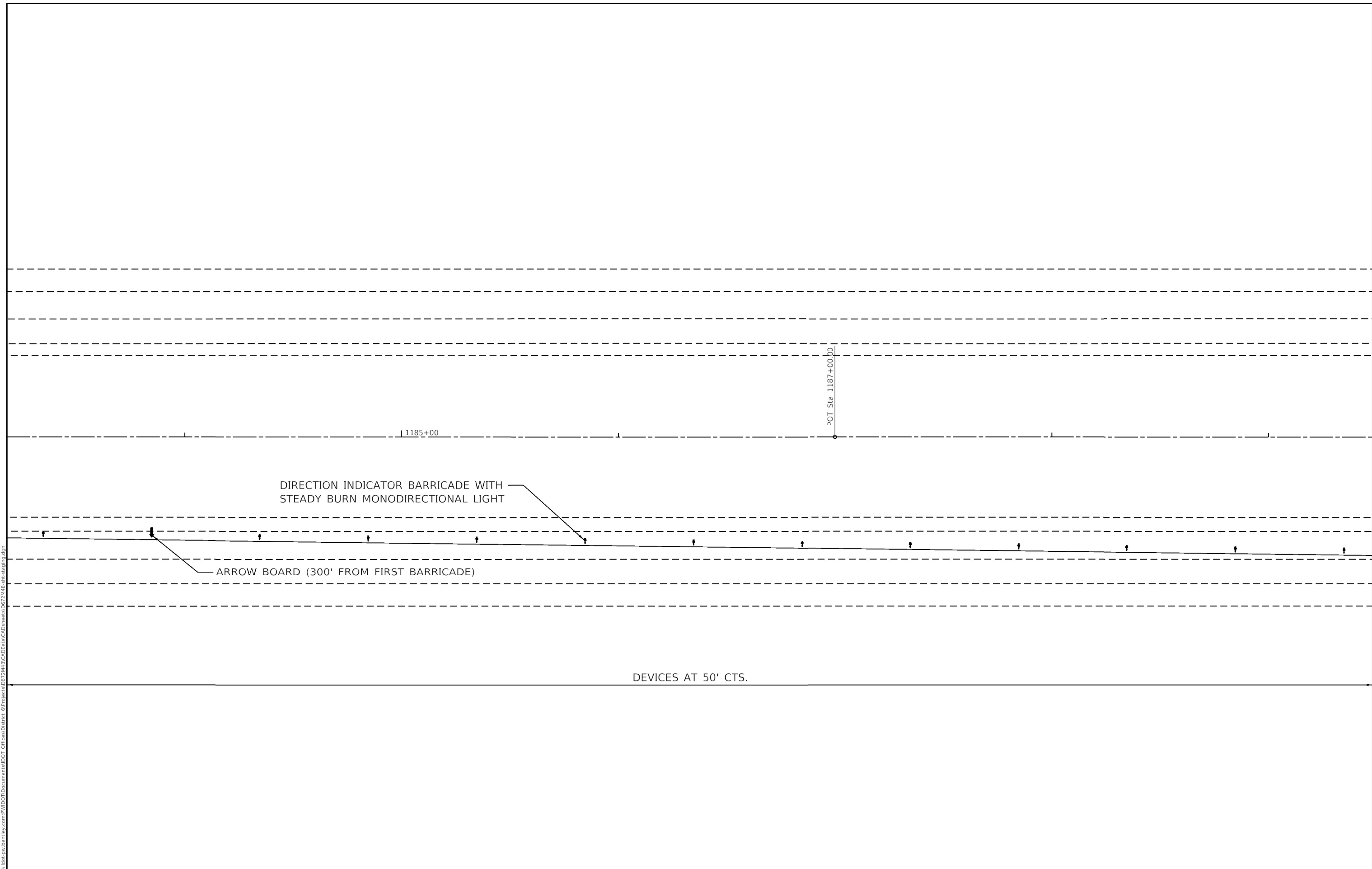
USER NAME = milesra	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 40.0000' / 1"	CHECKED -	REVISED -
PLOT DATE = 12/17/2021	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

TRAFFIC CONTROL PLAN - STAGE 1			
FAI ROUTE 72			
SCALE: 20	SHEET 1	OF 14 SHEETS	STA. 1176+12.08 TO STA. 1183+17.92

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
72	1	MORGAN	41	14
CONTRACT NO. 72M48				

Model: Default
 File: \\milesra\pwworkspace\pwworkspace\DOT_Civil\DOT\Documents\DOT_Civil\DOT\Traffic\Traffic\TrafficControlPlan\TrafficControlPlan.dwg



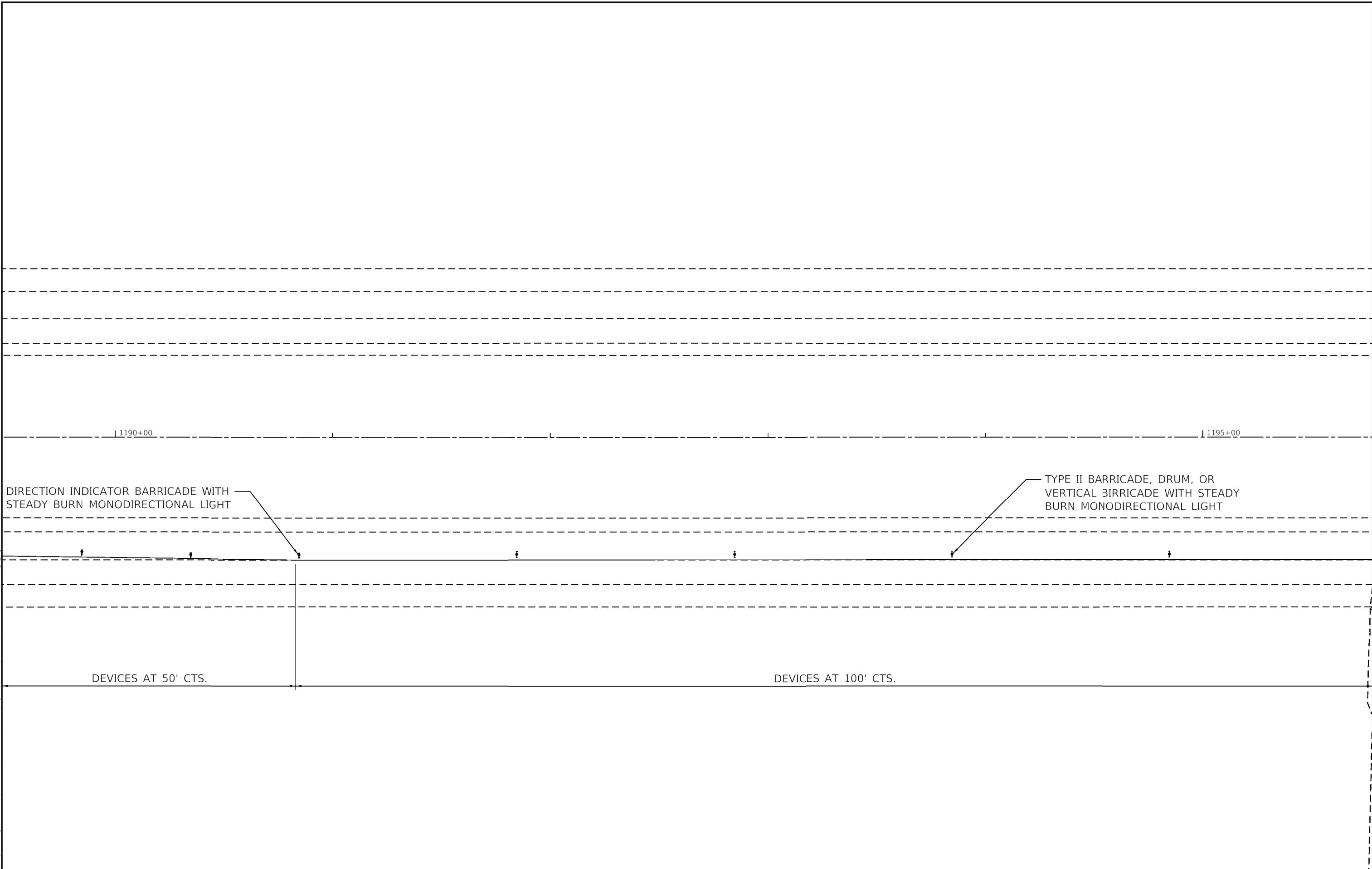
USER NAME = milesra	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 40.0000' / 1"	CHECKED -	REVISED -
PLOT DATE = 12/17/2021	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLAN - STAGE 1
FAI ROUTE 72

SCALE: 20 SHEET 2 OF 14 SHEETS STA. 1183+17.92 TO STA. 1189+47.92

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
72		MORGAN	41	15
			CONTRACT NO. 72M48	



MODEL: Default
 FILE: \\miller-pw-bentley.com\PWIDOT\Documents\DOT_Offices\District_6\Projects\0672M48\CAD\Sheet\CAD\Sheet0672M48.sht.ctb
 12/17/2021 10:00:00 AM

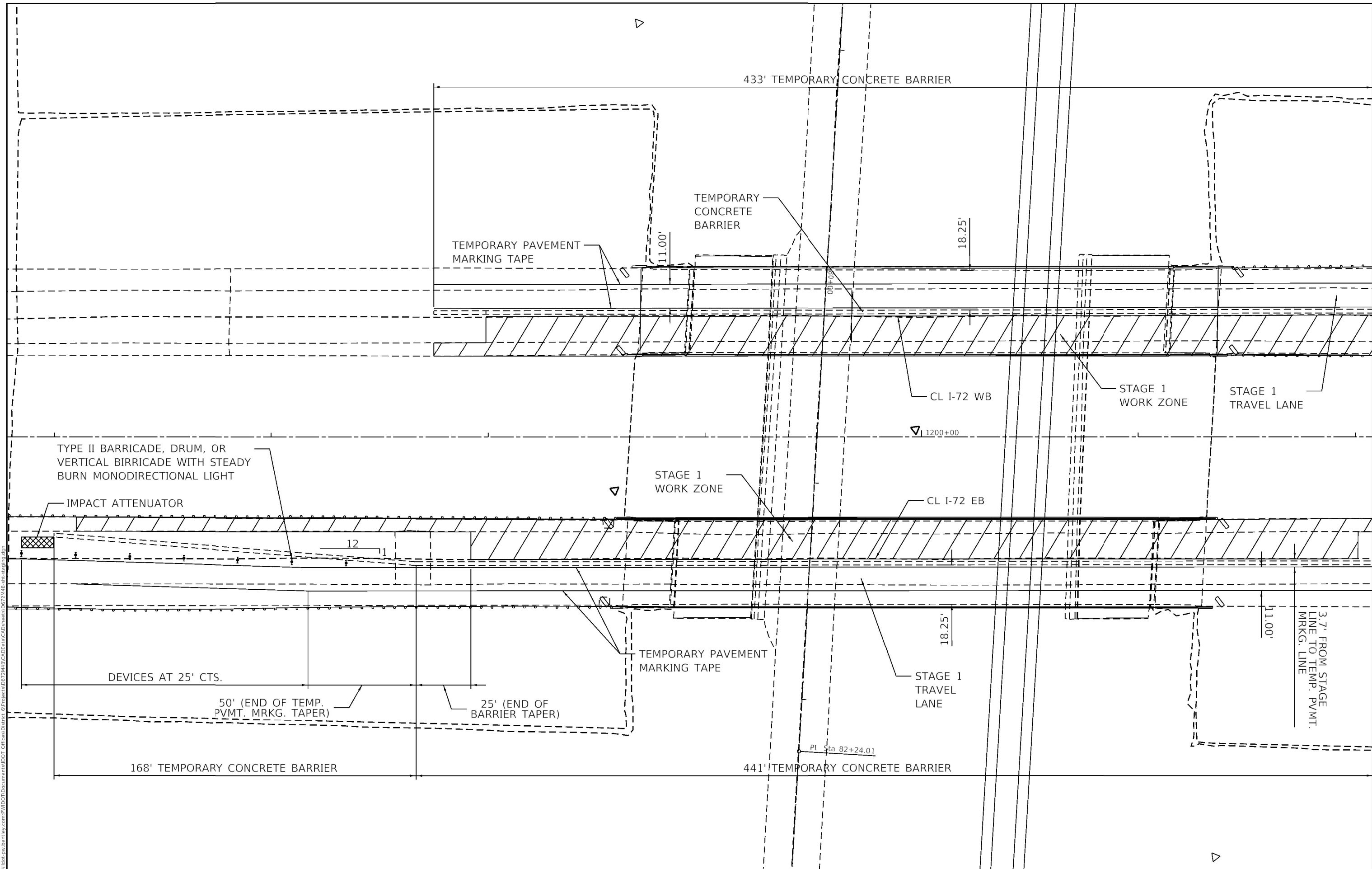
USER NAME = milesra	DESIGNED -	REVISED -
PLOT SCALE = 40.0000' / 1"	DRAWN -	REVISED -
PLOT DATE = 12/17/2021	CHECKED -	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLAN - STAGE 1			
FAI ROUTE 72			
SCALE: 20	SHEET 3	OF 14 SHEETS	STA. 1189+47.92 TO STA. 1195+77.92

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
72		MORGAN	41	16
CONTRACT NO. 72M48				

Model: Default
File: 72m48.dwg
User: milesra
Project: I-72M48
Path: C:\Users\milesra\OneDrive\Documents\DOT_Cad\Projects\I-72M48\I-72M48.dwg



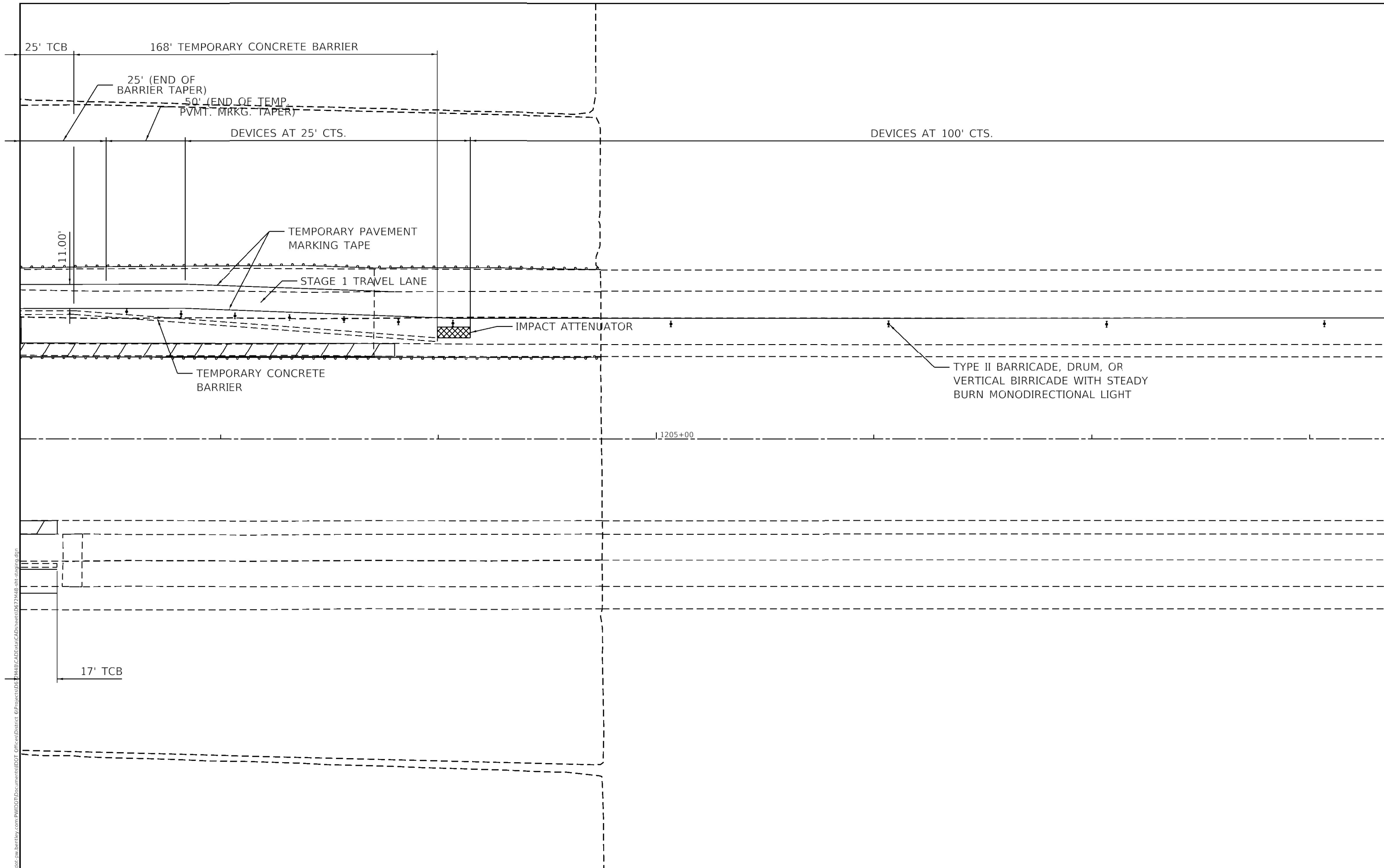
USER NAME = milesra	DESIGNED -	REVISED -
PLOT SCALE = 40.0000' / 1"	DRAWN -	REVISED -
PLOT DATE = 12/17/2021	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TRAFFIC CONTROL PLAN - STAGE 1
FAI ROUTE 72**

SCALE: 20 SHEET 4 OF 14 SHEETS STA. 1195+77.92 TO STA. 1202+07.92

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
72		MORGAN	41	17
CONTRACT NO. 72M48				
ILLINOIS FED. AID PROJECT (69-8) BDR, BRR-2, SLP-1				



Model: Default
 File: Model - pw.bentley.com/PWIDOT/Document/DOE/Civil/Staff/1207/2021/72M48/CAD/Sheet/DOE72M48_sht-stage1.dgn

USER NAME = milesra	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 40.0000' / 1"	CHECKED -	REVISED -
PLOT DATE = 12/17/2021	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLAN - STAGE 1
FAI ROUTE 72

SCALE: SHEET OF SHEETS STA. 1202+07.92 TO STA. 1208+37.92

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
72		MORGAN	41	18
CONTRACT NO. 72M48				
ILLINOIS FED. AID PROJECT (69-8) BDR, BRR-2, SLP-1				

DEVICES AT 100' CTS.

DEVICES AT 50' CTS.

DIRECTION INDICATOR BARRICADE WITH STEADY BURN MONODIRECTIONAL LIGHT

1210+00

Model: Default
 File: \\milesra\pwworkspace\pwworkspace\Projects\DOT_Civil\DOT\Documents\DOT_Civil\DOT\CAD\Drawings\DOT72M48.dwg
 Plot Date: 12/17/2021

USER NAME = milesra	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 40.0000' / 1"	CHECKED -	REVISED -
PLOT DATE = 12/17/2021	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLAN - STAGE 1 FAI ROUTE 72	
SCALE:	SHEET OF SHEETS
STA. 1208+37.92	TO STA. 1214+67.92

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
72		MORGAN	41	19
CONTRACT NO. 72M48				
ILLINOIS FED. AID PROJECT				

DEVICES AT 50' CTS.

DIRECTION INDICATOR BARRICADE WITH STEADY BURN MONODIRECTIONAL LIGHT

ARROW BOARD (300' FROM FIRST BARRICADE)

ADVANCE SIGNAGE IN ACCORDANCE TO STANDARD 701400

1215+00

1220+00

MODEL: Default
 FILE: \\miller-pw-bentley.com\PW\DOT\Documents\DOT_Offices\District_6\Projects\0672M48\CAD\Drawings\CAD\Sheet0672M48_sht.ctb
 FILE: \\miller-pw-bentley.com\PW\DOT\Documents\DOT_Offices\District_6\Projects\0672M48\CAD\Drawings\CAD\Sheet0672M48_sht.ctb

USER NAME = milesra	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 40.0000' / 1"	CHECKED -	REVISED -
PLOT DATE = 12/17/2021	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TRAFFIC CONTROL PLAN - STAGE 1
FAI ROUTE 72**

SCALE: SHEET OF SHEETS STA. 1214+67.92 TO STA. 1220+97.92

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
72		MORGAN	41	20
			CONTRACT NO. 72M48	

1180+00

DIRECTION INDICATOR BARRICADE WITH
STEADY BURN MONODIRECTIONAL LIGHT

DEVICES AT 50' CTS.

← ADVANCE SIGNAGE IN ACCORDANCE
TO STANDARD 701400

Model: Default
File: \\milesra\pwworkspace\pwworkspace\DOT_Civil\as\District_6\Projects\DOT72M48\CAD\Sheet\CAD\Sheet08.DWG
M:\REL_Default
FILE: \\milesra\pwworkspace\pwworkspace\DOT_Civil\as\District_6\Projects\DOT72M48\CAD\Sheet\CAD\Sheet08.DWG

USER NAME = milesra	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 40.0000' / 1"	CHECKED -	REVISED -
PLOT DATE = 12/17/2021	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

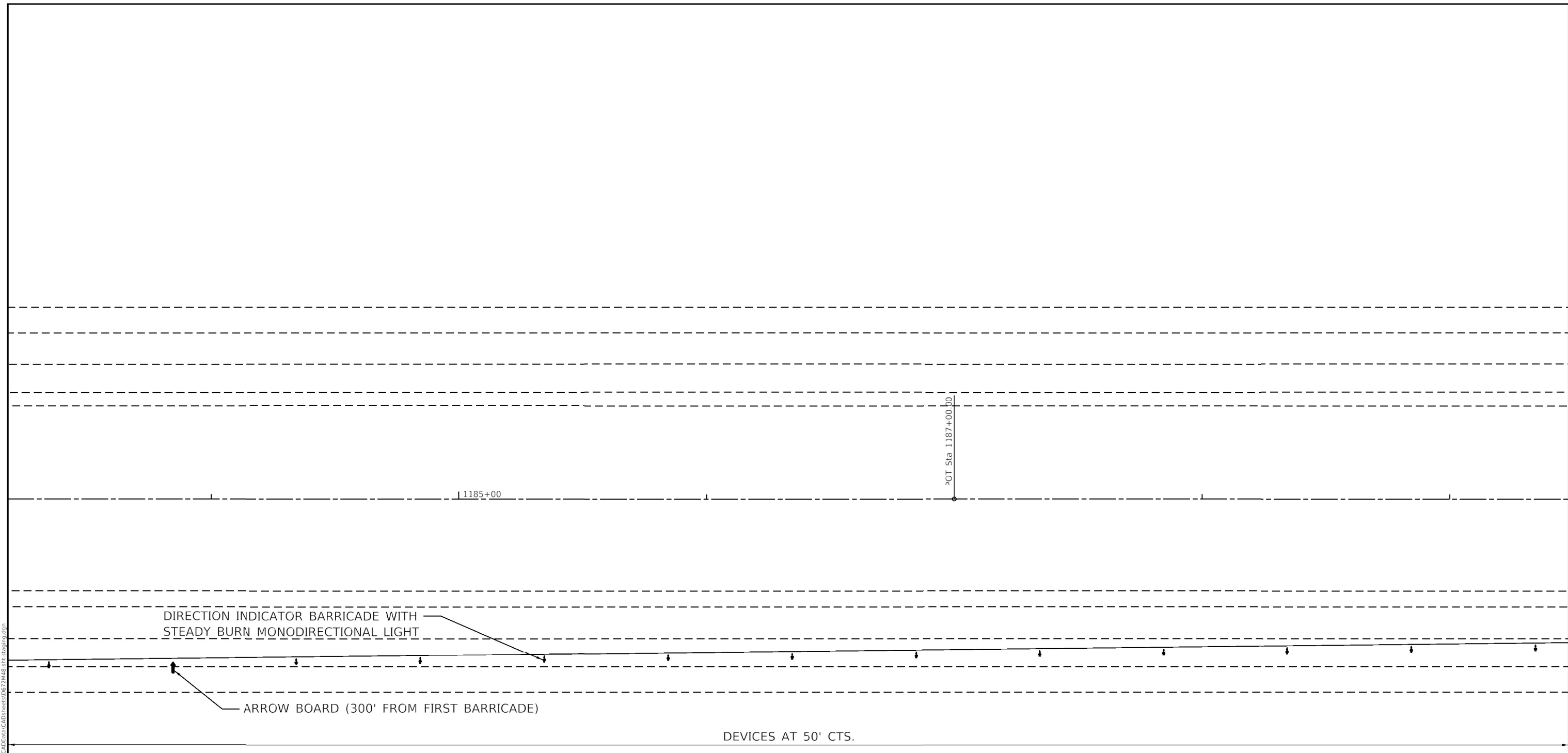
**TRAFFIC CONTROL PLAN - STAGE 2
FAI ROUTE 72**

SCALE: 20 SHEET 8 OF 14 SHEETS STA. 1176+12.08 TO STA. 1183+17.92

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
72		MORGAN	41	21
			CONTRACT NO. 72M48	

ILLINOIS FED. AID PROJECT (69-8) BDR, BRR-2, SLP-1

Model: Default
 File: \\miller-pw-bentley.com\PI\DOT\Documents\DOT_Offices\District_6\Projects\0672M48\CAD\Sheet\CAD\Sheet0672M48.dgn



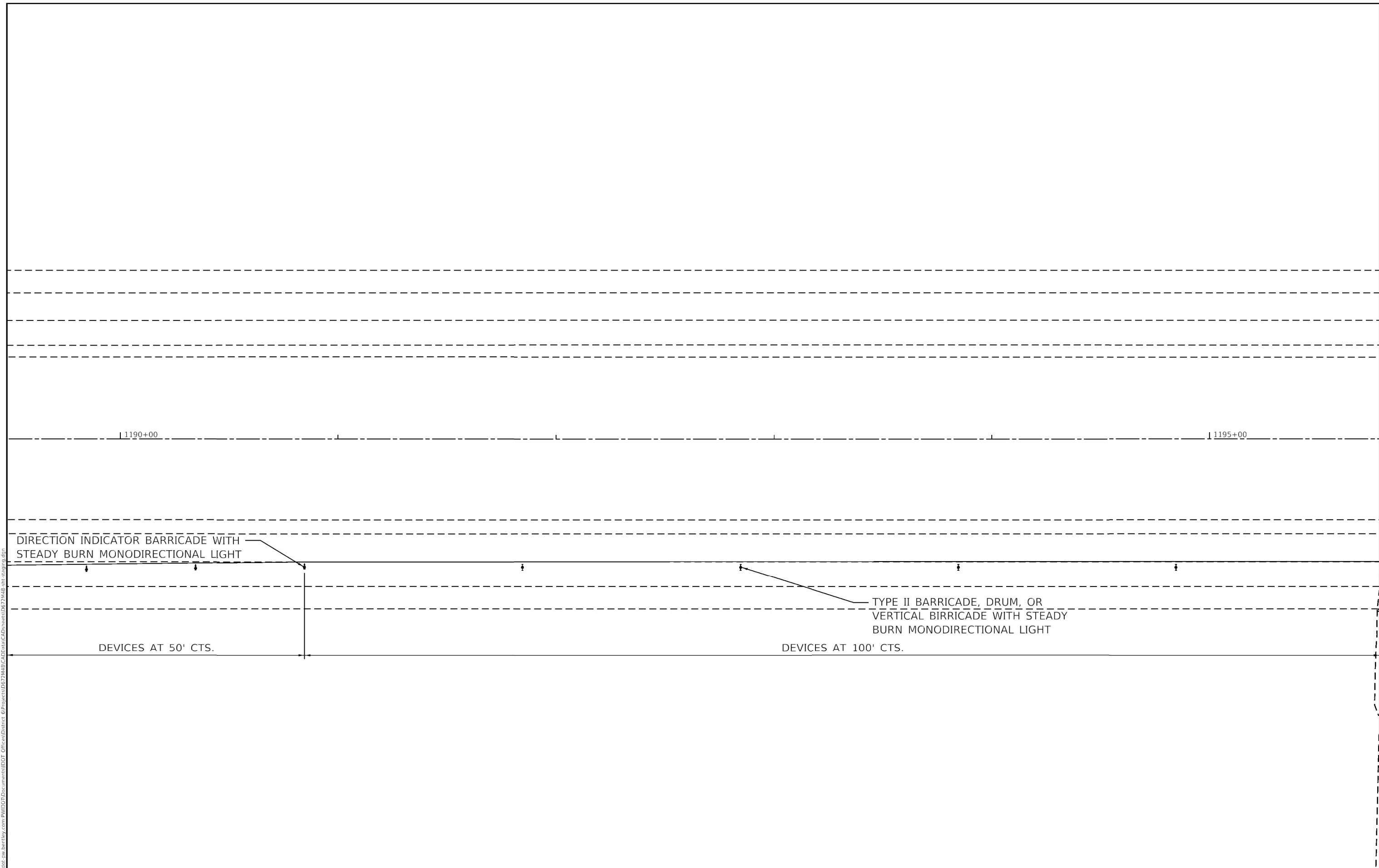
USER NAME = milesra	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 40.0000' / 1"	CHECKED -	REVISED -
PLOT DATE = 12/17/2021	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLAN - STAGE 2			
FAI ROUTE 72			
SCALE: 20	SHEET 9	OF 14 SHEETS	STA. 1183+17.92 TO STA. 1189+47.92

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
72		MORGAN	41	22
CONTRACT NO. 72M48				

MODEL: Default
 FILE: \\miller-pw-bentley.com\PI\DOT\Documents\DOT_Offices\District_6\Projects\072M48\CAD\Sheet\072M48_sht.ctb
 12/17/2021 10:00:00 AM



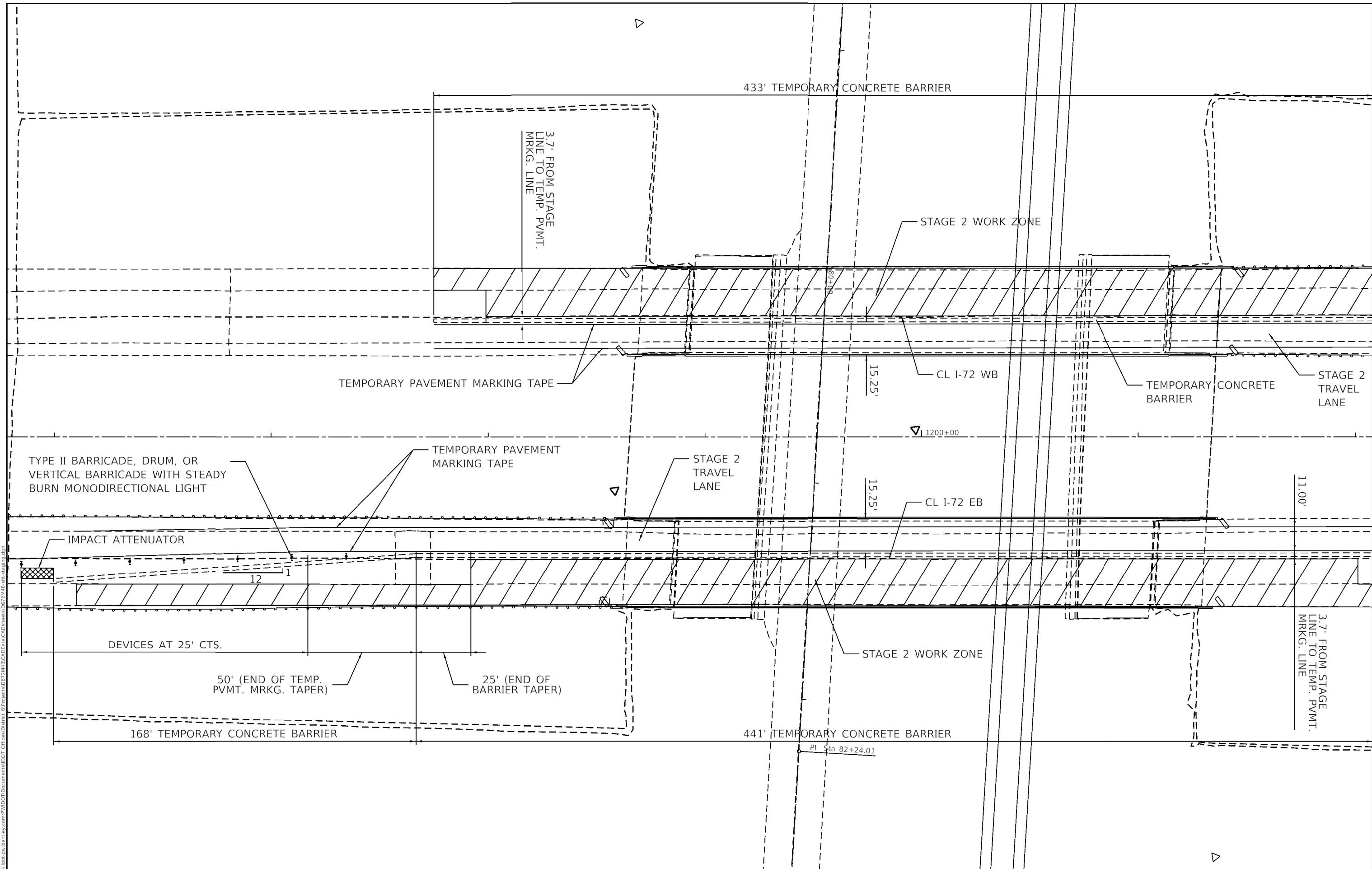
USER NAME = milesra	DESIGNED -	REVISED -
DRAWN -	REVISED -	
PLOT SCALE = 40.0000' / 1"	CHECKED -	REVISED -
PLOT DATE = 12/17/2021	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLAN - STAGE 2
FAI ROUTE 72

SCALE: 20 SHEET 10 OF 14 SHEETS STA. 1189+47.92 TO STA. 1195+77.92

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
72		MORGAN	41	23
CONTRACT NO. 72M48				



MODEL: Default
 FILE: Model - 20111217.dwg
 PLOT DATE: 12/17/2021
 PROJECT: I:\Projects\DOT\Projects\DOT - Office\Driver - E\Projects\DOT\72M48\CAD\Sheet\DOT72M48.dwg

USER NAME = milesra	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 40.0000' / 1"	CHECKED -	REVISED -
PLOT DATE = 12/17/2021	DATE -	REVISED -

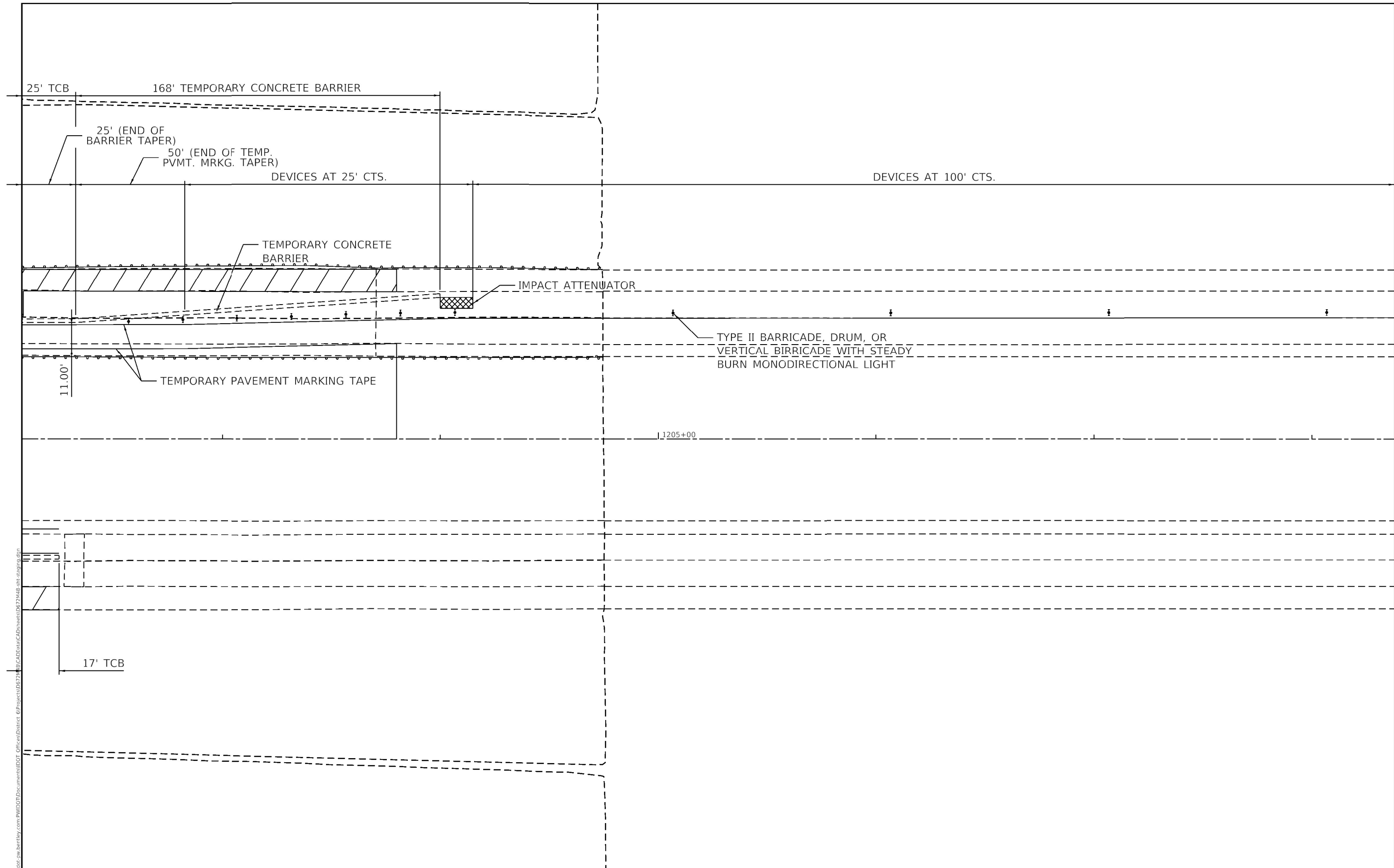
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLAN - STAGE 2
FAI ROUTE 72

SCALE: 20 SHEET 11 OF 14 SHEETS STA. 1195+77.92 TO STA. 1202+07.92

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
72		MORGAN	41	24
CONTRACT NO. 72M48				

ILLINOIS FED. AID PROJECT (69-8) BDR, BRR-2, SLP-1



Model: Default
 File: Model - 20110128.dwg
 User: milesra
 Project: 1205+00
 Path: C:\Users\milesra\Documents\DOT Office\District 6\Projects\1205+00\1205+00.dwg

USER NAME = milesra	DESIGNED -	REVISED -
PLOT SCALE = 40.0000' / 1"	DRAWN -	REVISED -
PLOT DATE = 12/17/2021	CHECKED -	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLAN - STAGE 2 FAI ROUTE 72			
SCALE: 20	SHEET 12	OF 14 SHEETS	STA. 1202+07.92 TO STA. 1208+37.92

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
72		MORGAN	41	25
			CONTRACT NO. 72M48	
		ILLINOIS	FED. AID PROJECT	

DEVICES AT 100' CTS.

DEVICES AT 50' CTS.

DIRECTION INDICATOR BARRICADE WITH
STEADY BURN MONODIRECTIONAL LIGHT

1210+00

Model: Default
 File: \\miller-pw-bentley.com\PI\DOT\Documents\DOT_Offices\District_6\Projects\0672M48\CAD\Drawings\CAD\Sheet0672M48_sht.ctb
 Plot Date: 12/17/2021

USER NAME = milesra	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 40.0000' / 1"	CHECKED -	REVISED -
PLOT DATE = 12/17/2021	DATE -	REVISED -

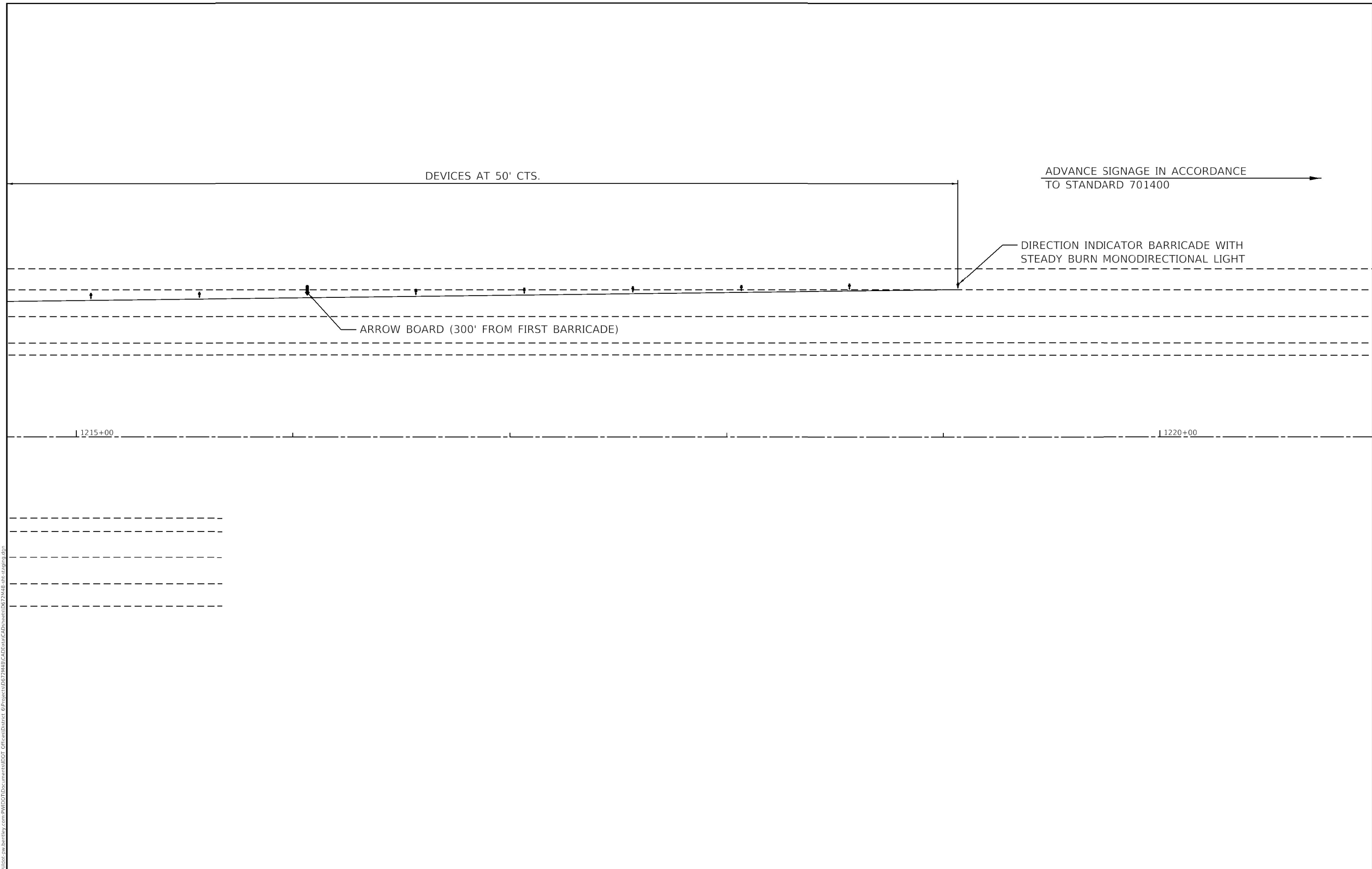
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TRAFFIC CONTROL PLAN - STAGE 2
FAI ROUTE 72**

SCALE: 20 SHEET 13 OF 14 SHEETS STA. 1208+37.92 TO STA. 1214+67.92

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
72		MORGAN	41	26
			CONTRACT NO. 72M48	

Model: Default
 File: \\miller-pw-bentley.com\PW\DOT\Documents\DOT_Offices\District_6\Projects\0672M48\CAD\Drawings\CAD\Sheet0672M48_sht.ctb.dgn



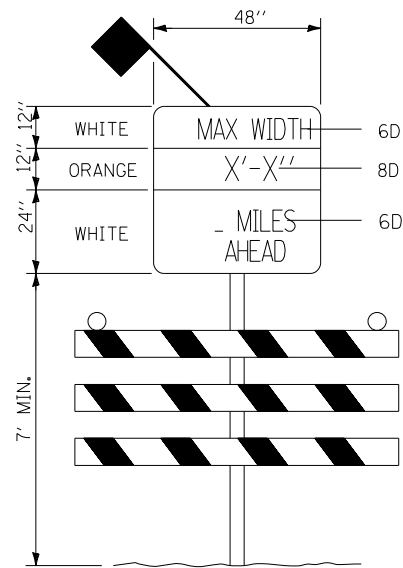
USER NAME = milesra	DESIGNED -	REVISED -
DRAWN -	REVISED -	
PLOT SCALE = 40.0000' / 1"	CHECKED -	REVISED -
PLOT DATE = 12/17/2021	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

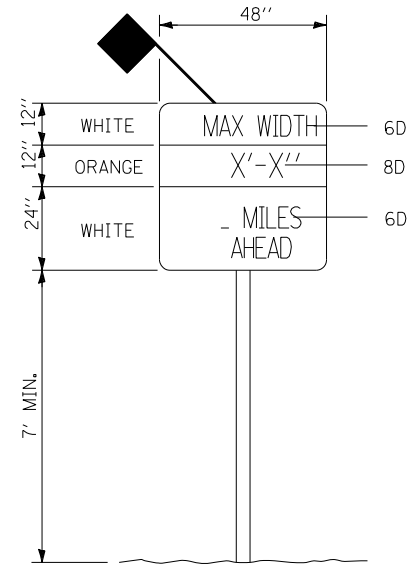
TRAFFIC CONTROL PLAN - STAGE 2 FAI ROUTE 72			
SCALE: 20	SHEET 14	OF 14 SHEETS	STA. 1214+67.92 TO STA. 1220+97.92

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
72		MORGAN	41	27
			CONTRACT NO. 72M48	

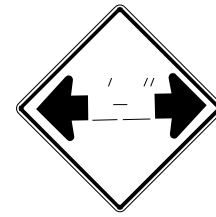
(69-8) BDR, BRR-2, SLP-1



SIGN A
(WIDTH RESTRICTION SIGN)



SIGN B
(WIDTH RESTRICTION SIGN)



SIGN C

LOCATION	SIGN	DISTANCE
I-72 EB WEST OF IL 267	A (X2)	4.5 MILES
IL 267 AT I-72 EB ON RAMP	B	3.3 MILES
I-72 EB BETWEEN IL 267 AND IL 104	C	1.5 MILES
I-72 WB EAST OF OLD ROUTE 36	A (X2)	1.7 MILES
OLD ROUTE 36 AT I-72 WB ON RAMP	B	1.0 MILES
I-72 EB BETWEEN OLD ROUTE 36 AND IL 104	C	0.4 MILES

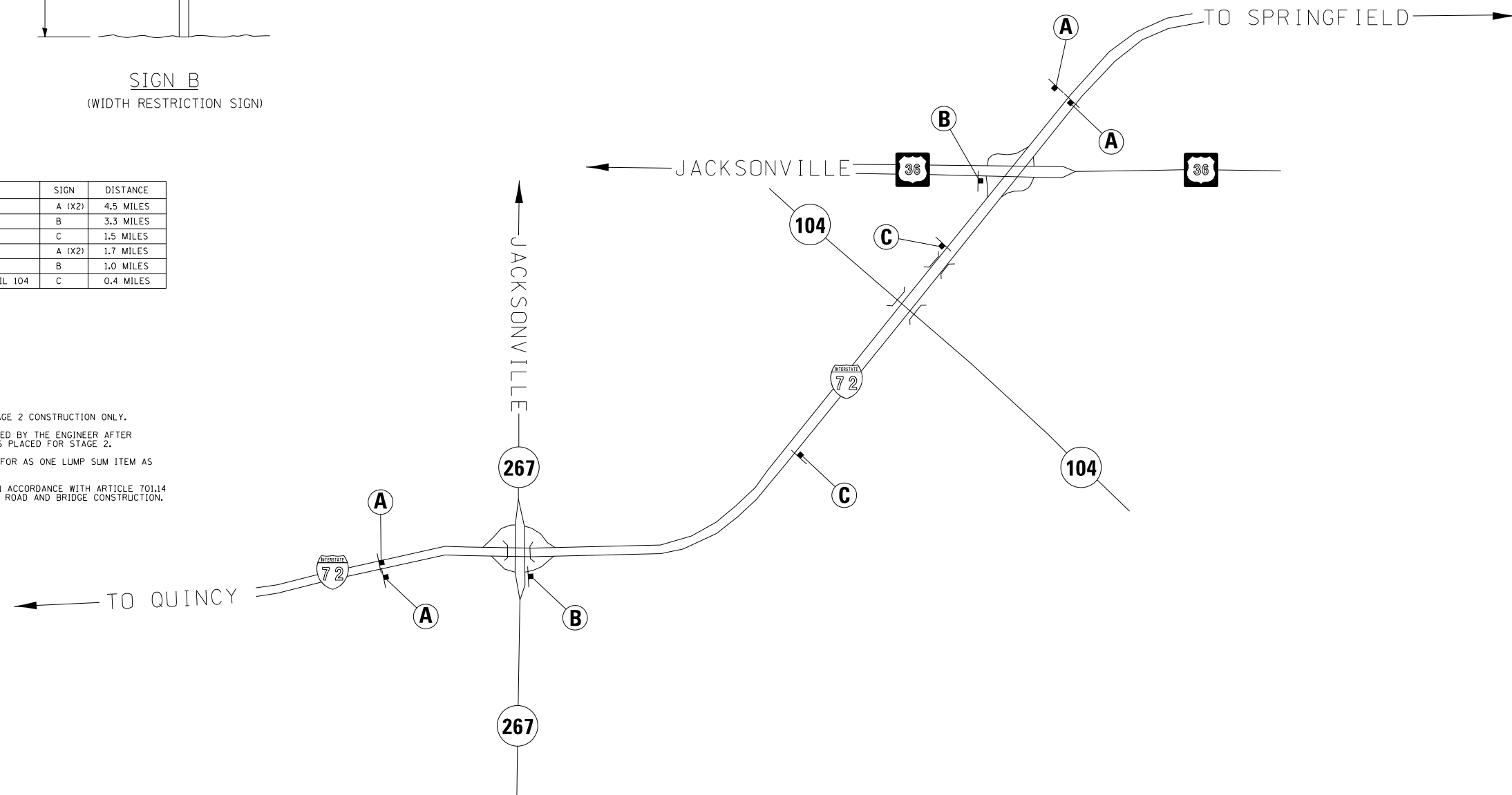
GENERAL NOTES:

MAXIMUM WIDTH SIGNING PLAN FOR STAGE 2 CONSTRUCTION ONLY.

ACTUAL MAXIMUM WIDTH TO BE MEASURED BY THE ENGINEER AFTER TEMPORARY CONCRETE BARRIER WALL IS PLACED FOR STAGE 2.

MAXIMUM WIDTH SIGNS SHALL BE PAID FOR AS ONE LUMP SUM ITEM AS "WIDTH RESTRICTION SIGNING".

ALL SIGNS SHALL BE POST MOUNTED IN ACCORDANCE WITH ARTICLE 701.14 OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.



MODEL: Default
FILE: MainE_pxl\lides-2w_bentley.com:PHWDOT\Documents\DOT Offices\District 6\Projects\0672M48\CADDData\CAD\Notes\0672M48-shc-signing.dgn

USER NAME = milesra	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 12/20/2021	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

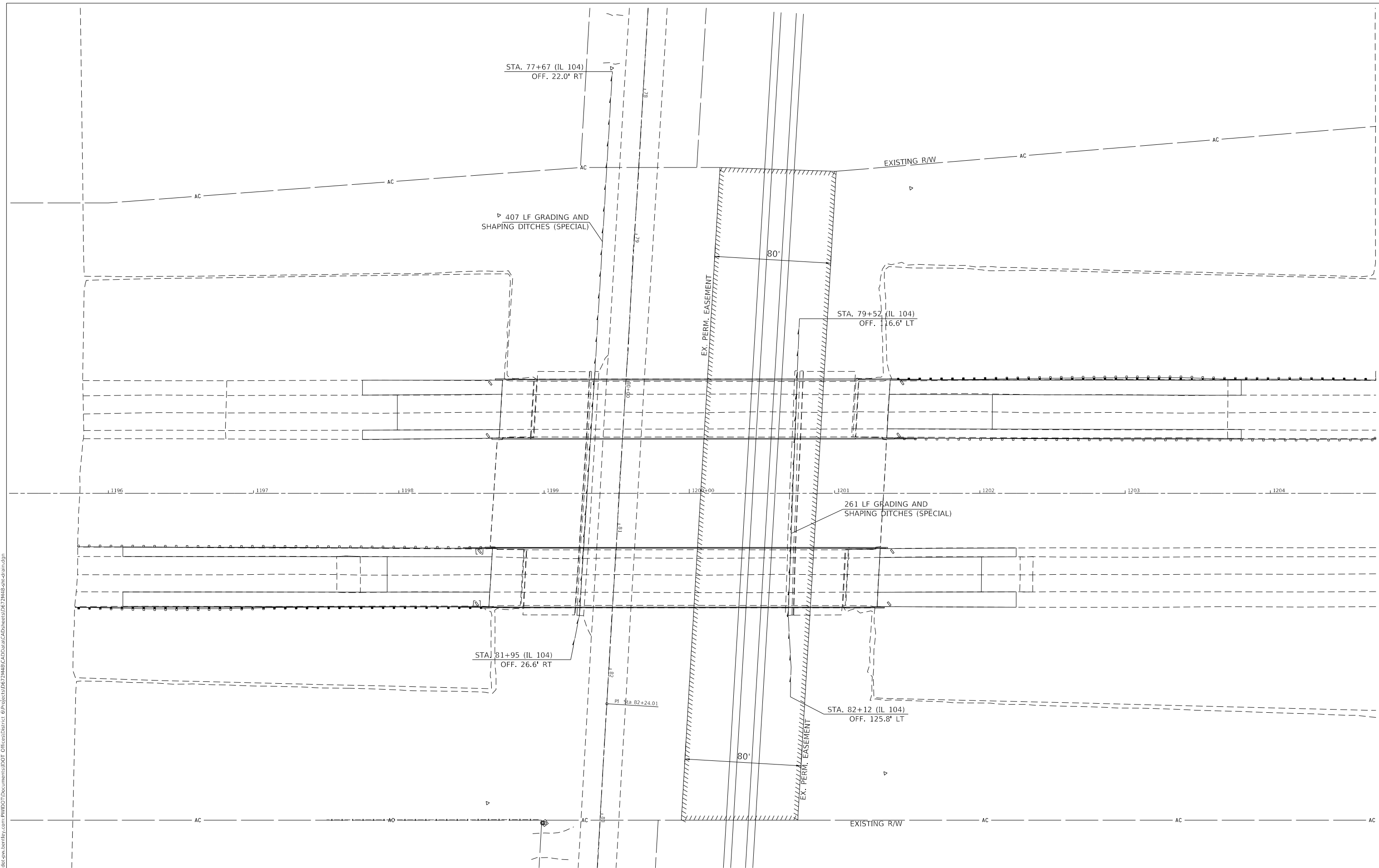
WIDTH RESTRICTION SIGNING - STAGE 2
FAI ROUTE 72

SCALE: N/A SHEET 1 OF 1 SHEETS STA. N/A TO STA. N/A

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
72	*	MORGAN	41	28
CONTRACT NO. 72M48				

ILLINOIS FED. AID PROJECT
* (69-8) BDR, BRR-2, SLP-1

MODEL: Default
 FILE NAME: p:\111408-248-shr\111408-248-shr.dwg
 PROJECT: D:\Projects\111408-248-shr\111408-248-shr.dwg



USER NAME = milesra	DESIGNED -	REVISED -
DRAWN -	REVISED -	
PLOT SCALE = 60.0000' / in.	CHECKED -	REVISED -
PLOT DATE = 12/17/2021	DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

GRADING AND SHAPING DITCHES DETAIL			
IL 104			
SCALE: 30	SHEET 1	OF 1 SHEETS	STA. 1195+30.00 TO STA. 1204+75.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
72	*	MORGAN	41	29
CONTRACT NO. 72M48				
		ILLINOIS	FED. AID PROJECT	

* (69-8) BDR, BRR-2, SLP-1

GENERAL NOTES

All structural steel shall conform to AASHTO Classification M-270 Gr. 36, unless otherwise noted.

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

Prior to pouring the new concrete deck, all heavy or loose rust, loose mill scale, and other loose or potentially detrimental foreign material shall be removed from the surfaces in contact with concrete. Tightly adhered paint may remain unless otherwise noted. Removal shall be accomplished by methods that will not damage the steel and the cost will be included in the pay item covering removal of the existing concrete.

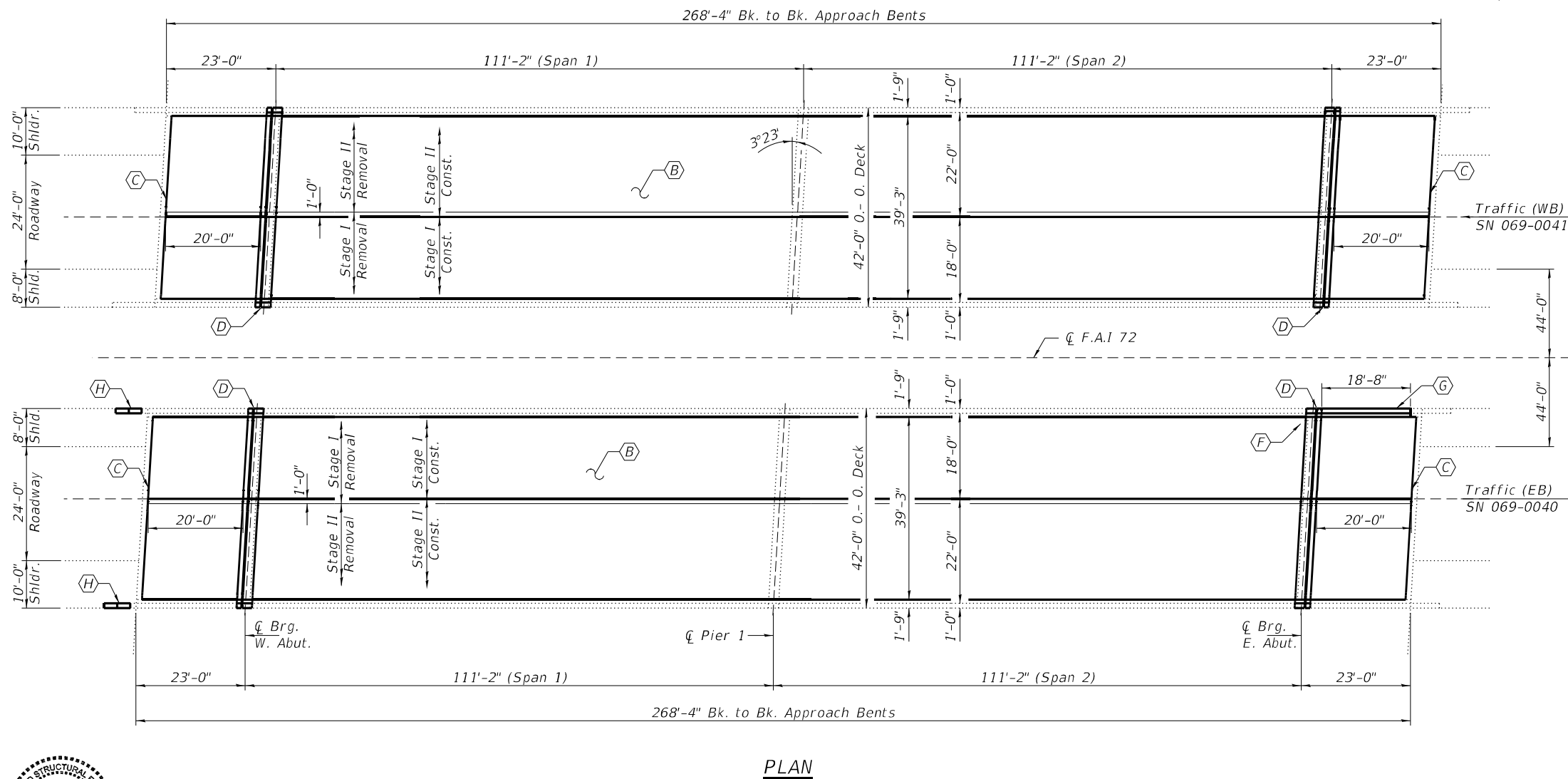
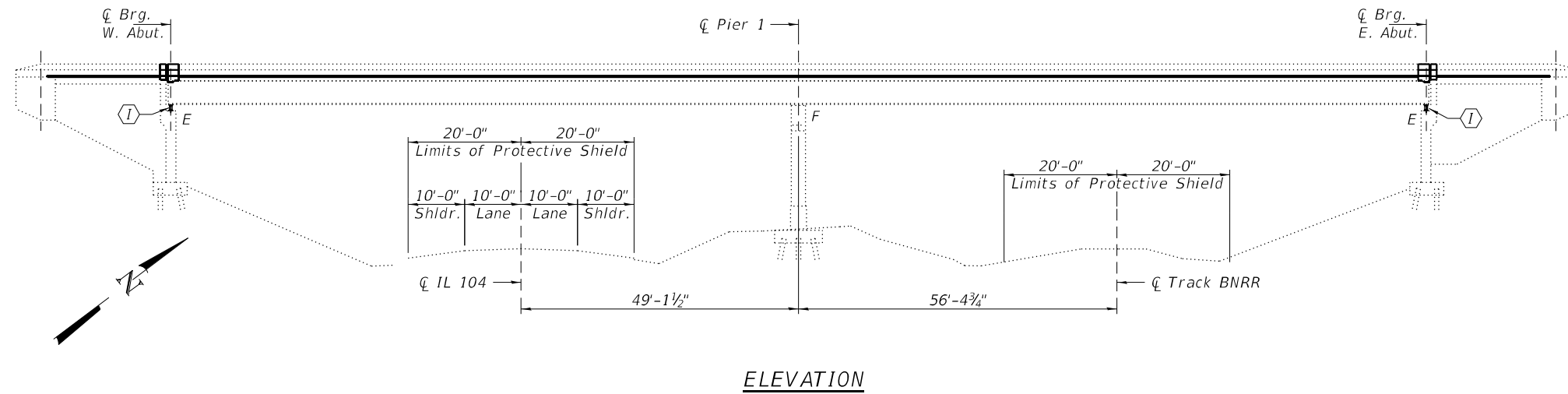
Reinforcement bars designated (E) shall be epoxy coated.

Existing reinforcement bars extending into the removal area shall be cleaned, straightened and incorporated into the new construction. Any reinforcement bars that are damaged during concrete removal shall be replaced with an approved bar splicer or anchorage system. Cost included with Concrete Removal.

Joint openings shall be adjusted according to Article 520.04 of the Standard Specifications when the deck is poured at an ambient temperature other than 50° F.

Traffic will be maintained using stage construction.

All new structural steel and bearing assembly shall be hot-dip galvanized. See Special Provisions for "Hot Dip Galvanizing For Structural Steel"



- (A) - Deck Patching, see sheet 2 of 12.
- (B) - Scarify 2 1/2" Deck, install 2 1/2" Microsilica Concrete Overlay, see sheet 3 of 12.
- (C) - Polymer Concrete Nosing. See sheet 4 of 12 for details.
- (D) - Remove existing Joints and Install New Preformed Joint Strip Seal, see sheet 5 of 12.
- (E) - Splice Plate Repair. See sheet 7 of 12 for details.
- (F) - Girder End Repairs. See sheet 7 of 12 for details.
- (G) - Parapet Replacement, See sheet 8 of 12.
- (H) - Parapet Retrofit, See sheet 8 of 12.
- (I) - Remove Existing Abutment Bearings and Install New Elastomeric Bearings, Type I

TOTAL BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Polymer Concrete	Cu. Ft.	5.6
Bridge Deck Microsilica Concrete Overlay, 2 3/4"	Sq. Yd.	2238
Diamond Grinding (Bridge Section)	Sq. Yd.	2337
Bridge Deck Grooving (Longitudinal)	Sq. Yd.	1431
Protective Shield	Sq. Yd.	747
Concrete Superstructure	Cu. Yd.	20.8
Concrete Removal	Cu. Yd.	17.7
Preformed Joint Strip Seal	Foot	163
Reinforcement Bars, Epoxy Coated	Pound	3840
Bridge Deck Scarification, 2 1/2"	Sq. Yd.	2238
Elastomeric Bearing Assembly Type I	Each	24
Jack and Remove Existing Bearings	Each	24
Anchor Bolts 1"	Each	48
Structural Steel Repair	Pound	6050
Furnishing and Erecting Structural Steel	Pound	4690
Bar Splicers	Each	40
* Protective Coat	Sq. Yd.	2510
Deck Slab Repair (Full Depth, Type I)	Sq. Yd.	2.2
Deck Slab Repair (Full Depth, Type II)	Sq. Yd.	39.3
Slope Wall Repair (4")	Sq. Yd.	105
Controlled Low Strength Material	Cu. Yd.	98

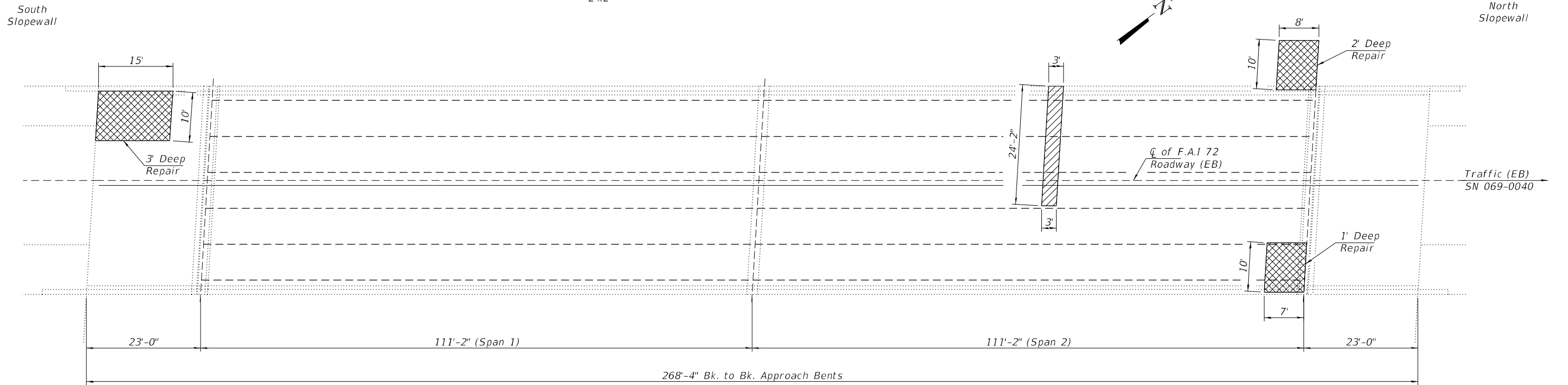
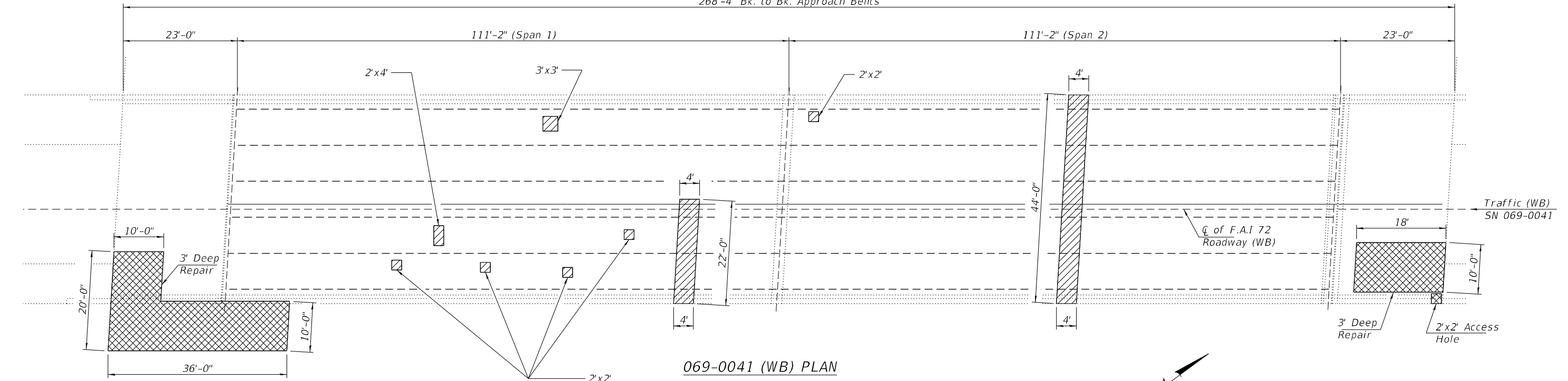
* Apply to new concrete only including overlay.





EXPIRES 11-30-2022

DESIGNED - Jeffrey S. Burke	EXAMINED -	DATE - JANUARY 28, 2021	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	GENERAL PLAN AND ELEVATION FAI 72 OVER IL 104 & B&N RR SN 069 - 0040 (EB) & 0041 (WB)	F.A.I. RTE. - 72	SECTION - (69-8)BDR, BRR-2, SLP-1	COUNTY - MORGAN	TOTAL SHEETS - 41	SHEET NO. - 30
CHECKED - Adrian T. Halloway	PASSED -	REVISER -			CONTRACT NO. 72M48				
DRAWN - Venkat Ramana Reddy	ENGINEER OF STRUCTURAL SERVICES -	REVISER -			ILLINOIS FED. AID PROJECT				
CHECKED - JSB ATH	ENGINEER OF BRIDGES AND STRUCTURES -	REVISER -			SHEET NO. 1 OF 12 SHEETS				

268'-4" Bk. to Bk. Approach Bents



 Slopewall Repair to be filled with "Controlled Low Strength Material"
 Deck Slab Repair Full Depth

BILL OF MATERIAL

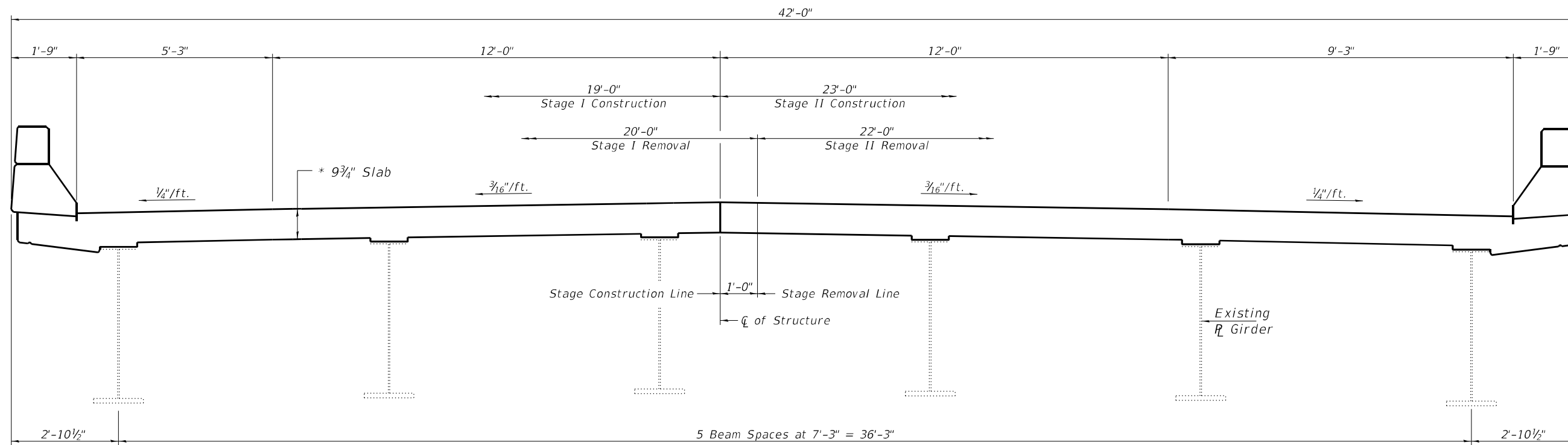
Item	Unit	Total
Deck Slab Repair (Full Depth, Type I)	Sq. Yd.	2.2
Deck Slab Repair (Full Depth, Type II)	Sq. Yd.	39.3
Slopewall Repair (4")	Sq. Yd.	105
Controlled Low Strength Material	Cu. Yd.	98

DESIGNED - JSB	EXAMINED - <i>Timothy A. Daulton</i> ENGINEER OF STRUCTURAL SERVICES	DATE - JANUARY 28, 2021
CHECKED - ATH	PASSED - <i>Carl R. Meyer</i> ENGINEER OF BRIDGES AND STRUCTURES	REVISED -
DRAWN - Venkat Ramana Reddy		REVISED -
CHECKED - JSB ATH		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SLOPEWALL REPAIR & DECK PATCHING - REPAIR A
SN 069 - 0040 (EB) & 0041 (WB)

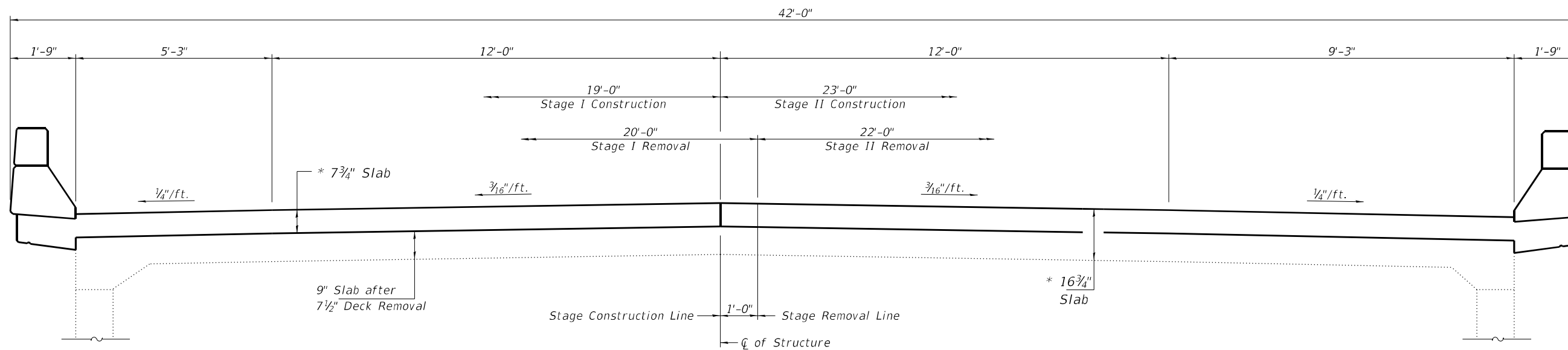
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
72	(69-8)BDR, BRR-2, SLP-1	MORGAN	41	31
CONTRACT NO. 72M48				
ILLINOIS FED. AID PROJECT				



CROSS SECTION AT DECK

(SN 069-0040 E.B. Looking East)
(SN 069-0041 W.B. Looking West)

* Prior to 1/4" Diamond Grinding





CROSS SECTION AT APPROACH'S

(SN 069-0040 E.B. Looking East)
(SN 069-0041 W.B. Looking West)

* Prior to 1/4" Diamond Grinding

DESIGNED - JSB
CHECKED - ATH
DRAWN - Venkat Ramana Reddy
CHECKED - JSB ATH

EXAMINED
PASSED


 ENGINEER OF STRUCTURAL SERVICES
 ENGINEER OF BRIDGES AND STRUCTURES

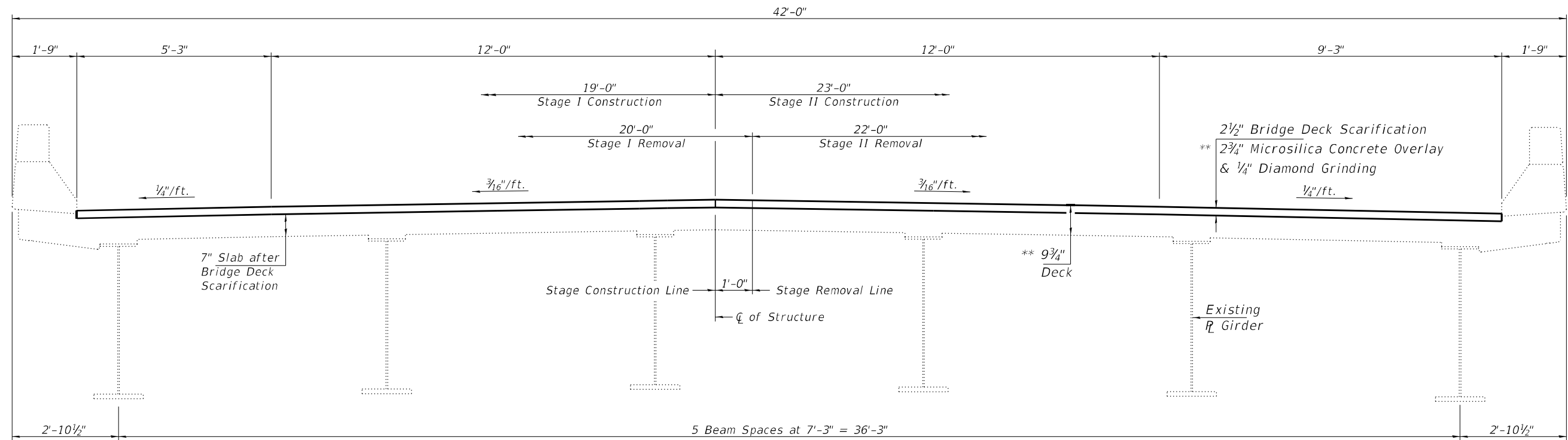
DATE - JANUARY 28, 2021
 REVISED -
 REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS & STAGING DETAILS AT ABUTMENTS
SN 069 - 0040 (EB) & 0041 (WB)**

SHEET NO. 3 OF 12 SHEETS

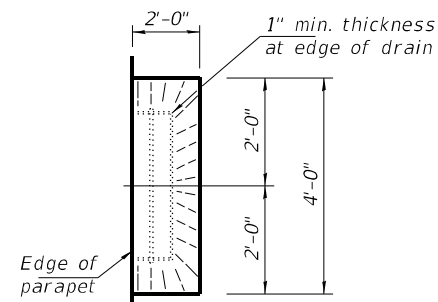
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
72	(69-8)BDR, BRR-2, SLP-1	MORGAN	41	32
ILLINOIS			CONTRACT NO. 72M48	
FED. AID PROJECT				



CROSS SECTION AT MID SPAN

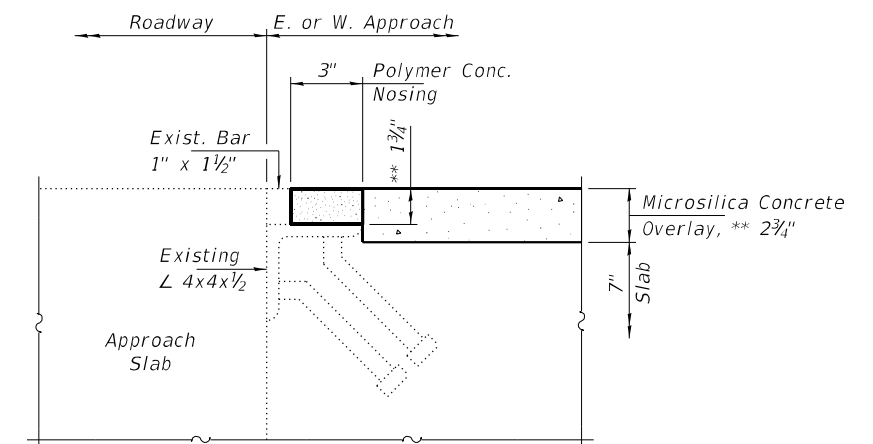
(SN 069-0040 E.B. Looking East)
(SN 069-0041 W.B. Looking West)

** Prior to Diamond Grinding



DRAIN DETAIL

* slope to drain



POLYMER CONCRETE NOSING DETAIL

DESIGNED - JSB
CHECKED - ATH
DRAWN - Venkat Ramana Reddy
CHECKED - JSB ATH

EXAMINED
PASSED
ENGINEER OF STRUCTURAL SERVICES
ENGINEER OF BRIDGES AND STRUCTURES

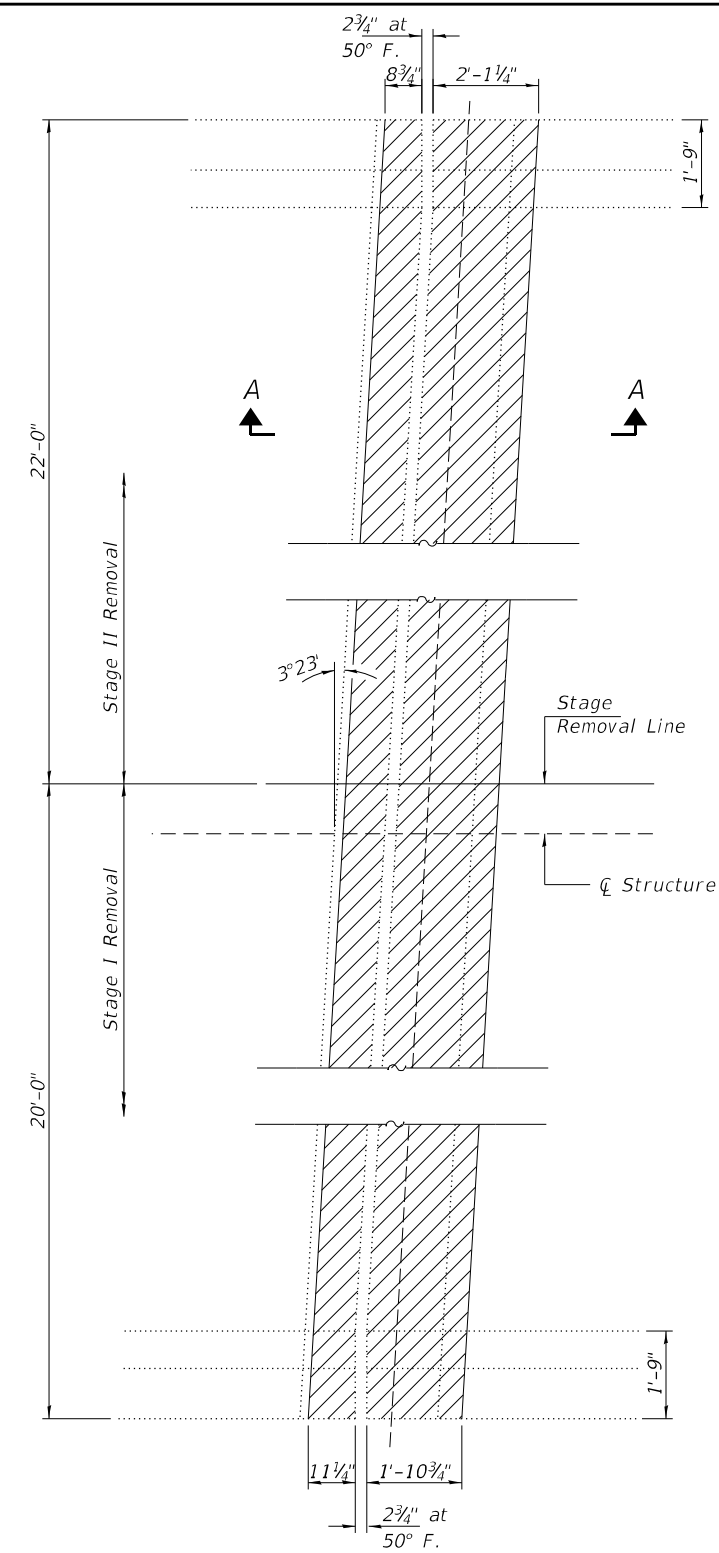
DATE - JANUARY 28, 2021
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS & STAGING DETAILS
SN 069 - 0040 (EB) & 0041 (WB)

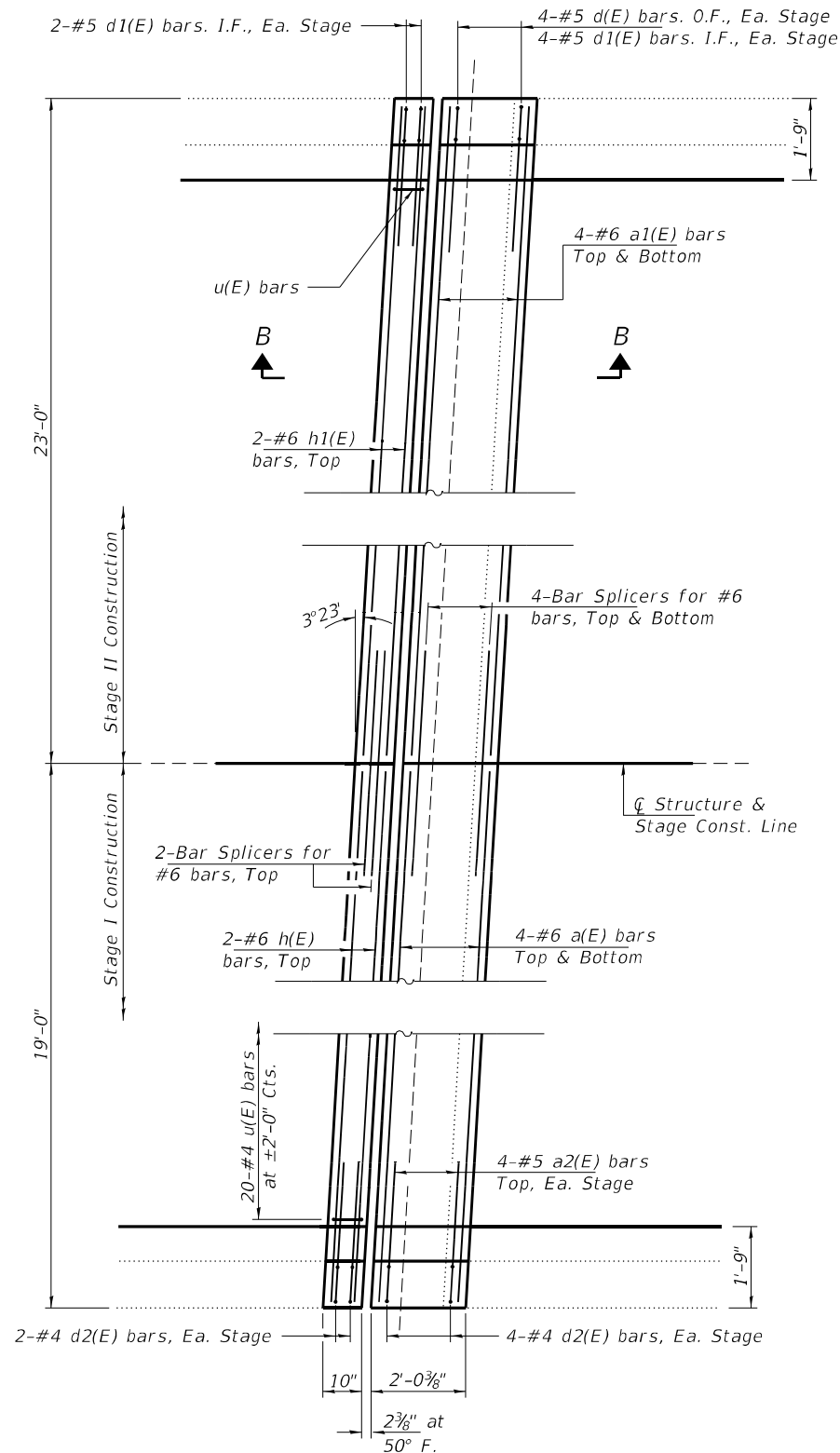
SHEET NO. 4 OF 12 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
72	(69-8)BDR, BRR-2, SLP-1	MORGAN	41	33
CONTRACT NO. 72M48				
ILLINOIS		FED. AID PROJECT		



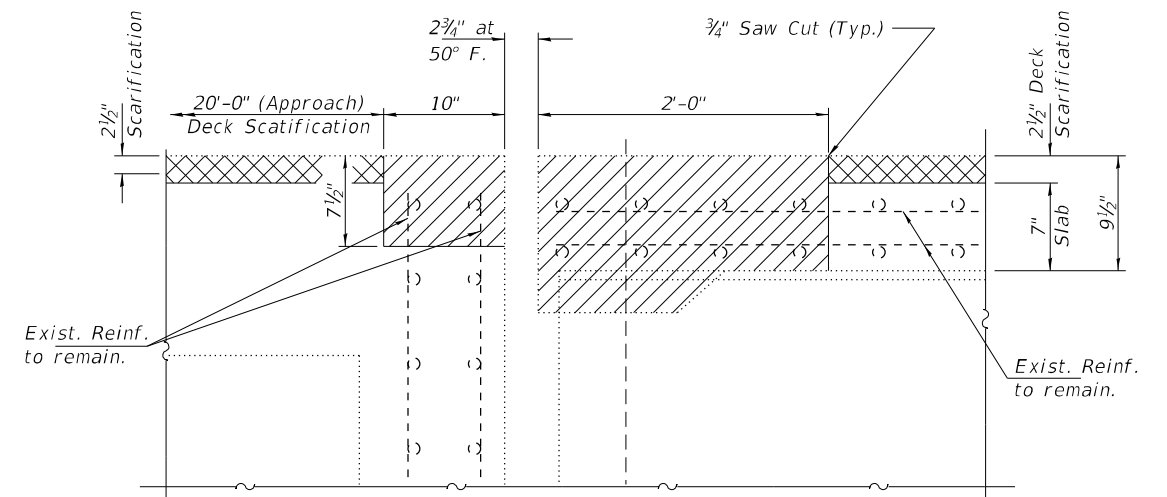
REMOVAL PLAN

West Abut. of SN 069-0041 W.B. shown,
East Abut. of 069-0040 E.B. similar
by mirroring along ζ F.A.I. 72



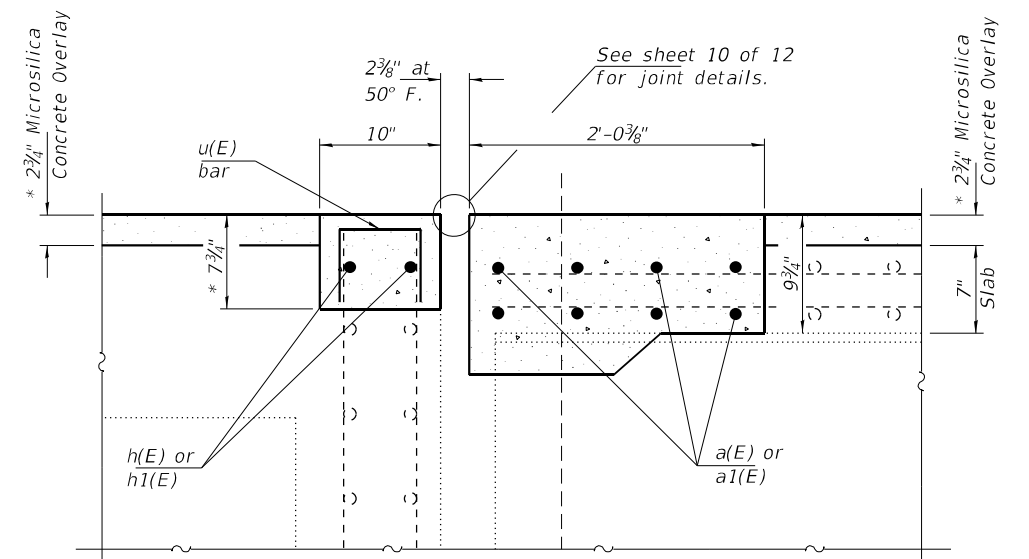
REPLACEMENT PLAN

West Abut. of SN 069-0041 W.B. shown,
East Abut. of 069-0040 E.B. similar
by mirroring along ζ F.A.I. 72



SECTION A-A

Concrete Removal 2 1/2" Deck Scarification



SECTION B-B

* Prior to Diamond Grinding

Note:
See sheet 6 of 12 for Section Thru Bridge Parapet,
Bill of Material and reinforcement bending diagrams.
Hatched areas indicate Concrete Removal.

DESIGNED - JSB
CHECKED - ATH
DRAWN - Venkat Ramana Reddy
CHECKED - JSB ATH

EXAMINED	<i>Timothy A. ...</i> ENGINEER OF STRUCTURAL SERVICES
PASSED	<i>Carl ...</i> ENGINEER OF BRIDGES AND STRUCTURES

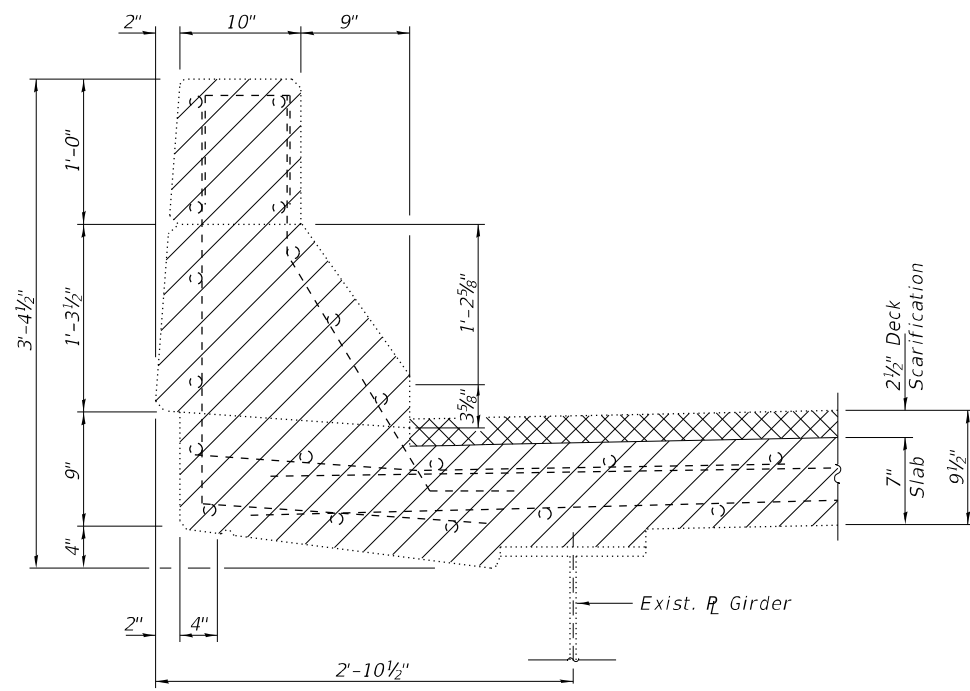
DATE - JANUARY 28, 2021
REVISED -
REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**JOINT REMOVAL & REPLACEMENT DETAILS - ABUTMENTS
SN 069-0040 (EB) & 0041 (WB)**

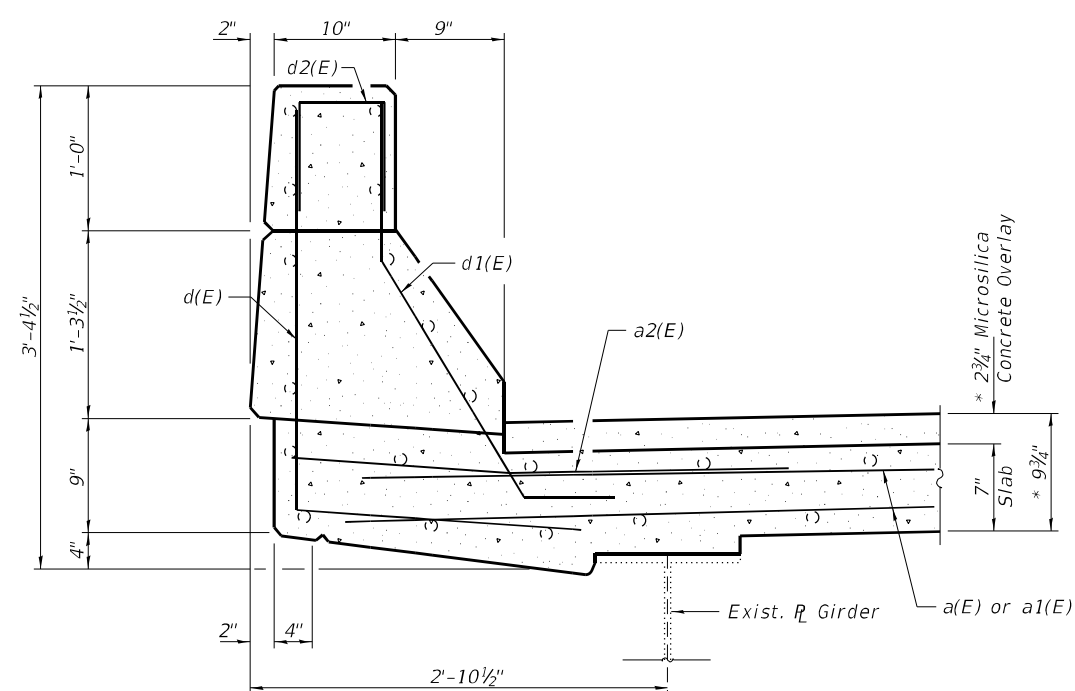
SHEET NO. 5 OF 12 SHEETS

F.A.I. RTE. 72	SECTION (69-8)BDR, BRR-2, SLP-1	COUNTY MORGAN	TOTAL SHEETS 41	SHEET NO. 34
CONTRACT NO. 72M48			ILLINOIS FED. AID PROJECT	

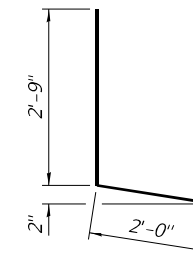


REMOVAL

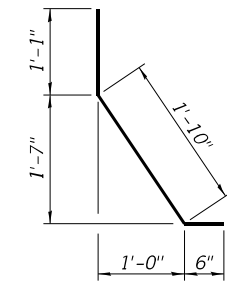
▨ 3/4" Bridge Deck Scarification



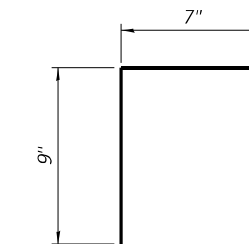
REPLACEMENT



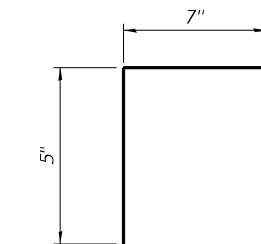
BAR d(E)



BAR d1(E)

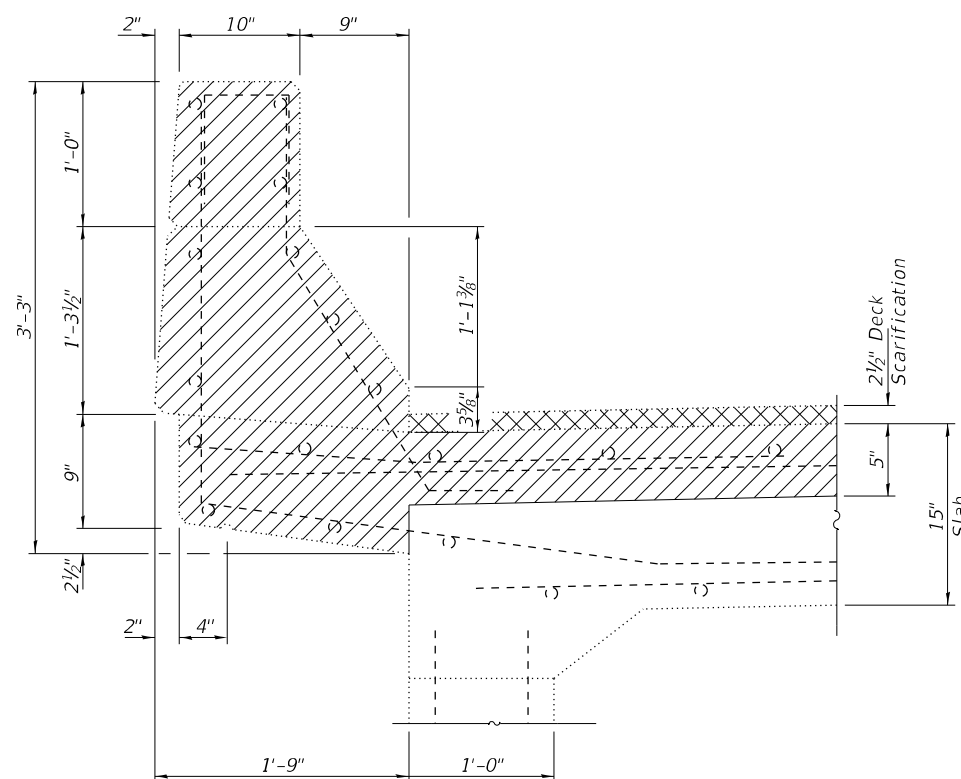


BAR d2(E)



BAR u(E)

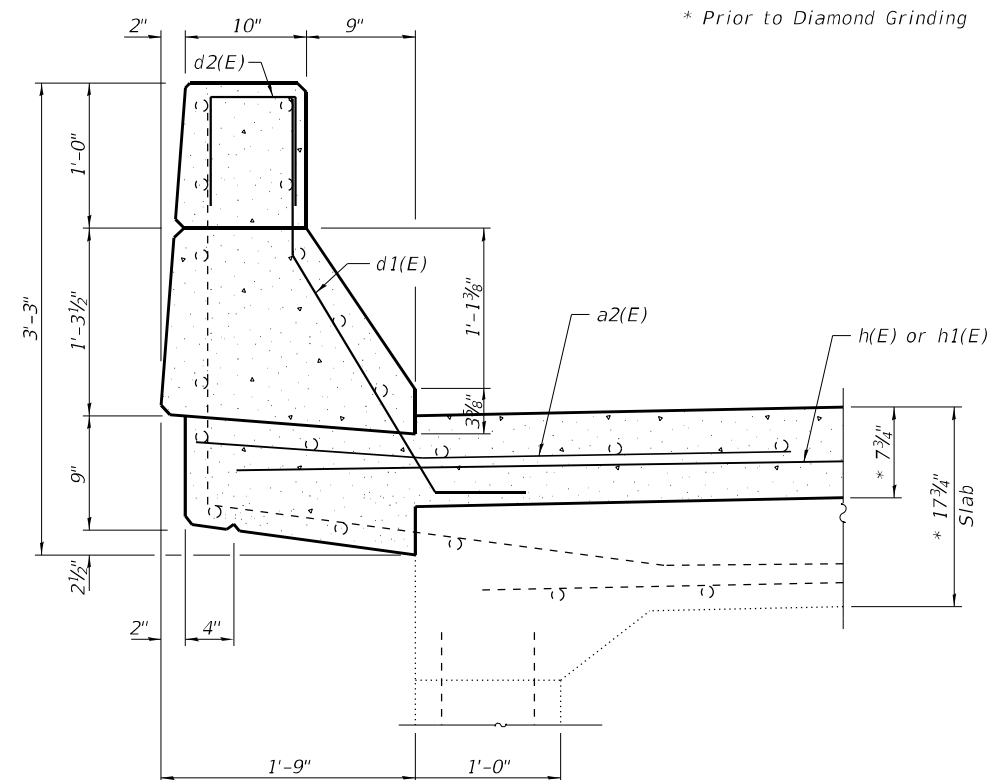
SECTION THRU PARAPET AT ABUTMENTS



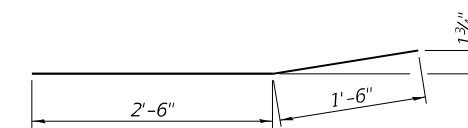
REMOVAL

▨ 2 1/2" Bridge Deck Scarification

▨ Concrete Removal



REPLACEMENT



BAR a2(E)

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a(E)	32	#6	18'-0"	—
a1(E)	32	#6	22'-0"	—
a2(E)	32	#5	4'-0"	—
d(E)	32	#5	4'-9"	L
d1(E)	48	#5	3'-5"	L
d2(E)	48	#4	2'-1"	□
h(E)	8	#6	18'-7"	—
h1(E)	8	#6	22'-7"	—
u(E)	80	#4	1'-5"	□
Concrete Removal		Cu. Yd.	17.7	
Concrete Superstructure		Cu. Yd.	18.2	
Protective Coat		Sq. Yd.	2510	
Bar Splicers		Each	40	
Reinforcement Bars, Epoxy Coated		Pound	3020	

SECTION THRU PARAPET AT APPROACH'S

DESIGNED - JSB
 CHECKED - ATH
 DRAWN - Venkat Ramana Reddy
 CHECKED - JSB ATH

EXAMINED
 PASSED
 ENGINEER OF STRUCTURAL SERVICES
 ENGINEER OF BRIDGES AND STRUCTURES

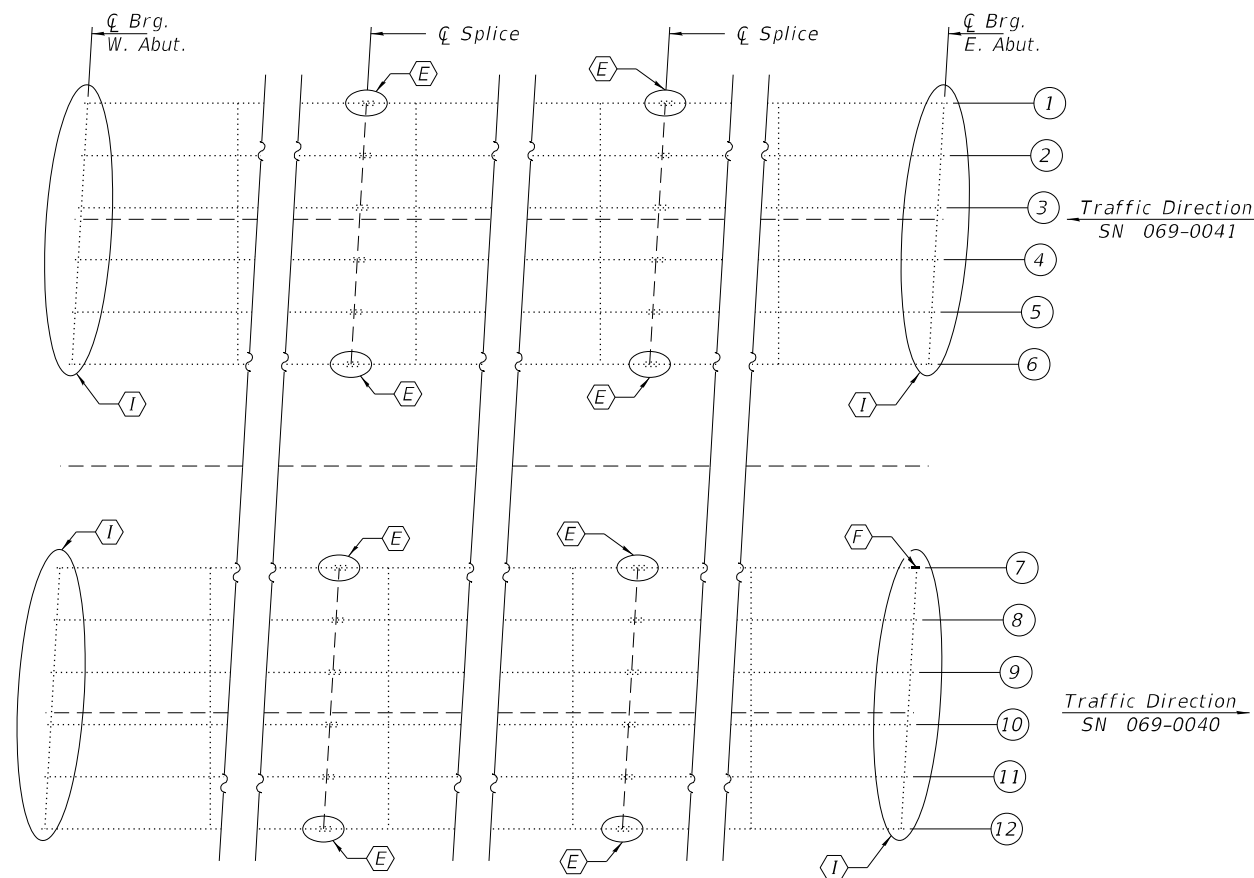
DATE - JANUARY 28, 2021
 REVISED -
 REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

JOINT REMOVAL & REPLACEMENT DETAILS - ABUTMENTS
 SN 069-0040 (EB) & 0041 (WB)

SHEET NO. 6 OF 12 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
72	(69-8)BDR, BRR-2, SLP-1	MORGAN	41	35
ILLINOIS			CONTRACT NO. 72M48	
FED. AID PROJECT				

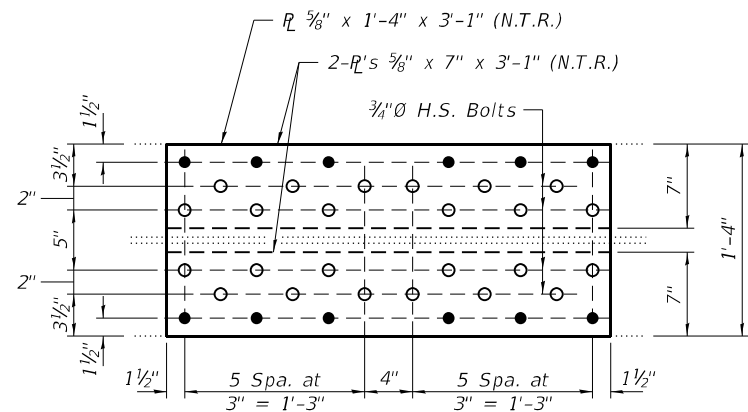


PARTIAL FRAMING PLAN

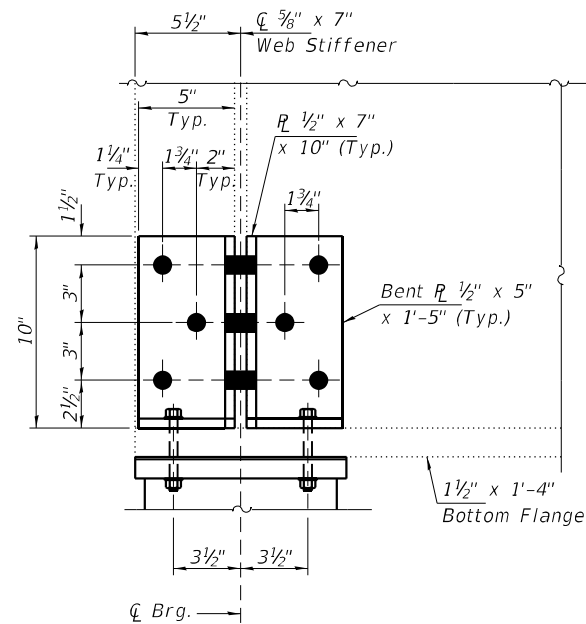
- (E) - Bottom Flange Splice Repair
- (F) - Girder End Repairs.
- (I) - See Sheet 9 of 12 for Bearing Replacement

BOLT HOLE LEGEND

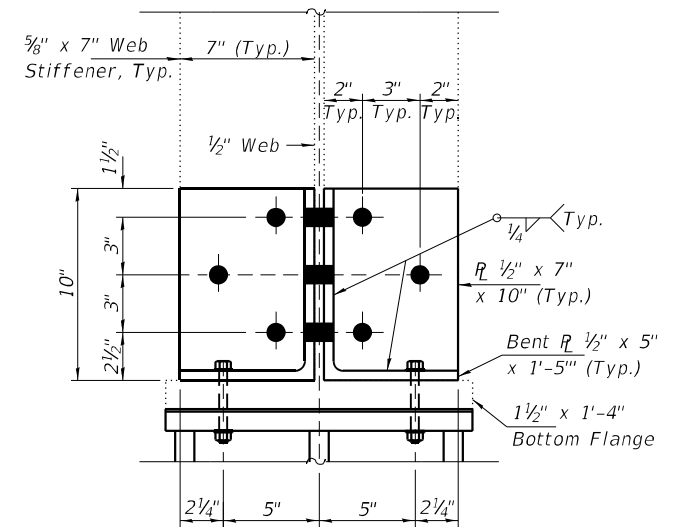
- - Field Drill holes in new steel using existing steel as template.
- - Shop Drill holes in new steel and use as a template to drill existing steel.



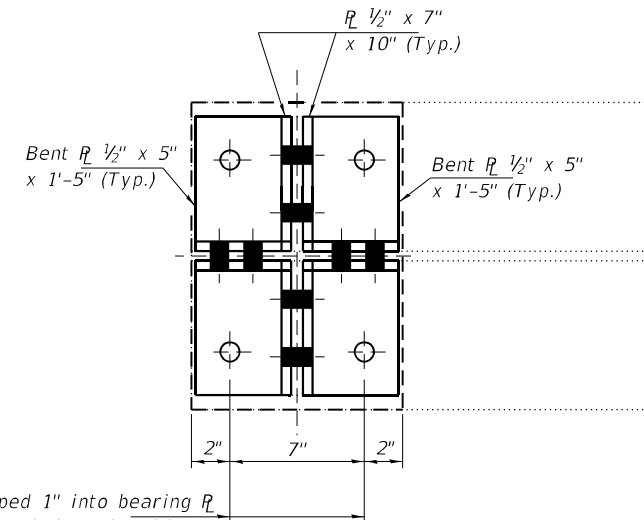
REPAIR "E" - SPLICE DETAIL
(8 locations)



REPAIR 'F'-ELEVATION



REPAIR 'F'-END SECTION



REPAIR 'F'-PLAN

☐ Holes tapped 1" into bearing R for $3/4"$ Ø Threaded Studs with flat washer & hex nut. (4 Reqd.)

NOTES

All structural steel shall conform to AASHTO Classification M-270 Gr. 36, unless otherwise noted.
Fasteners shall be high strength bolts. Bolts $3/4"$ Ø, open holes $13/16"$ Ø, unless otherwise noted.
The existing structural steel coating contains lead. The Contractor shall take appropriate precautions to deal with the presence of lead on this project.

BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Structural Steel Repair	Pound	6050

DESIGNED - JSB
CHECKED - ATH
DRAWN - Venkat Ramana Reddy
CHECKED - JSB ATH

EXAMINED
PASSED
ENGINEER OF BRIDGES AND STRUCTURES

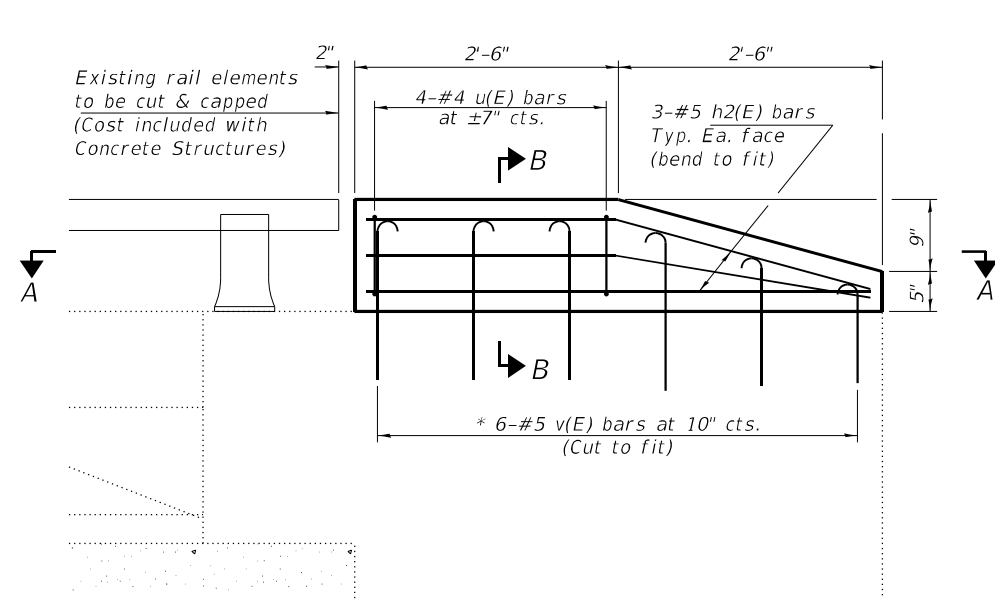
DATE - JANUARY 28, 2021
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

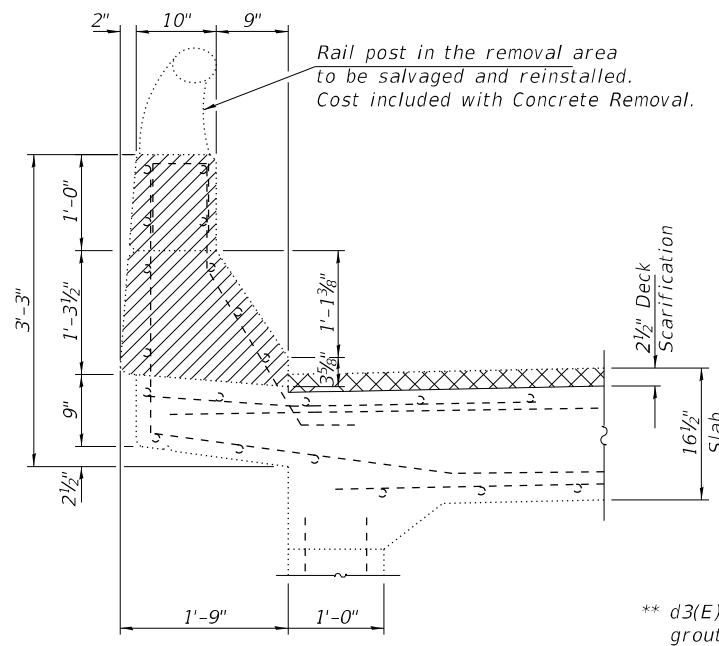
SPLICE PLATE REPAIR & BEAM END REPAIR DETAILS
SN 069-0040 (EB) & 0041 (WB)

SHEET NO. 7 OF 12 SHEETS

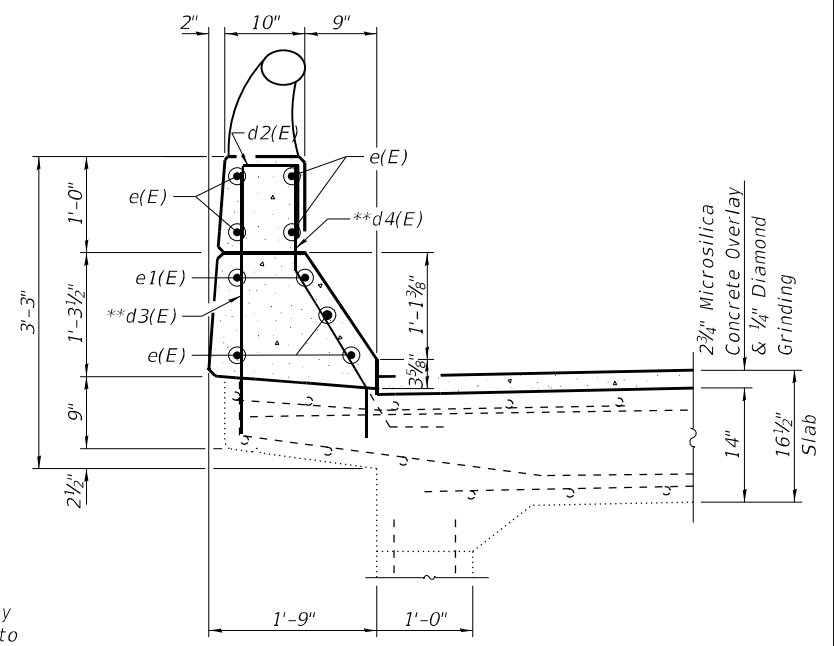
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
72	(69-8)BDR, BRR-2, SLP-1	MORGAN	41	36
ILLINOIS			CONTRACT NO. 72M48	
FED. AID PROJECT				



REPAIR 'H' - ELEVATION
(See sheet 1 of 12 for locations)



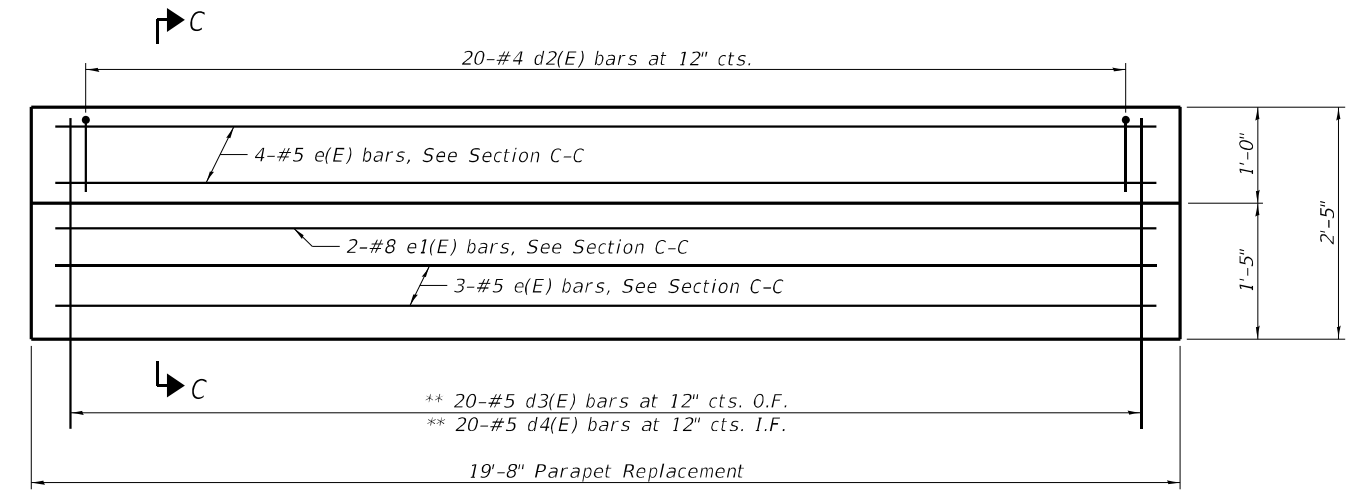
REMOVAL



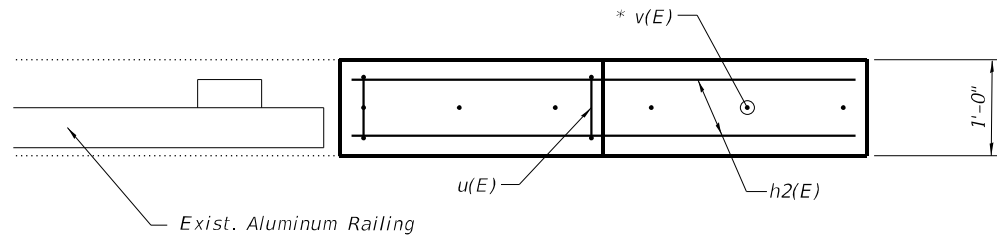
REPLACEMENT (SECTION C-C)

** d3(E) and d4(E) bars to be epoxy grouted 6\"/>

SECTION THRU PARAPET AT APPROACH
(North East Abut. of 069-0040 NB Bridge)



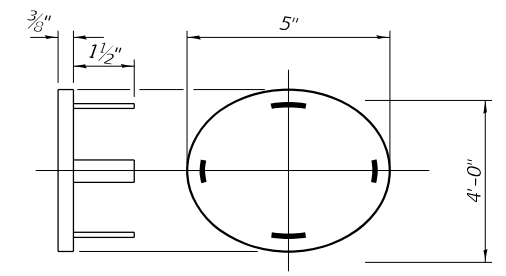
REPAIR 'G' - ELEVATION
(See sheet 1 of 12 for locations)



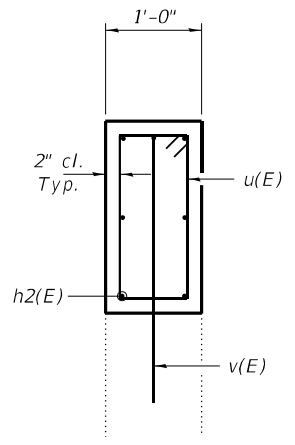
SECTION A-A

* Epoxy grout v(E) bars in 9\"/>

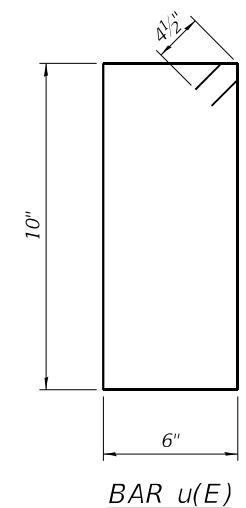
- 2 1/2\"/> Bridge Deck Scarification
- Concrete Removal



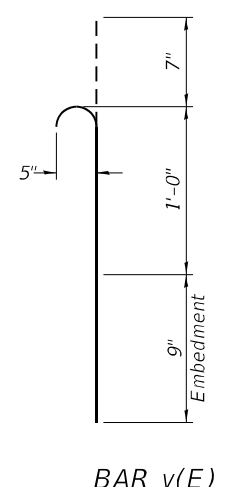
CAST END CAP



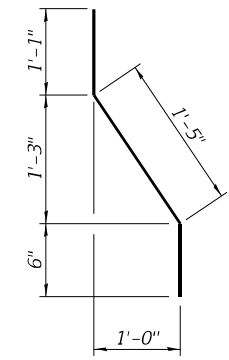
SECTION B-B



BAR u(E)



BAR v(E)



BAR d4(E)

BILL OF MATERIAL

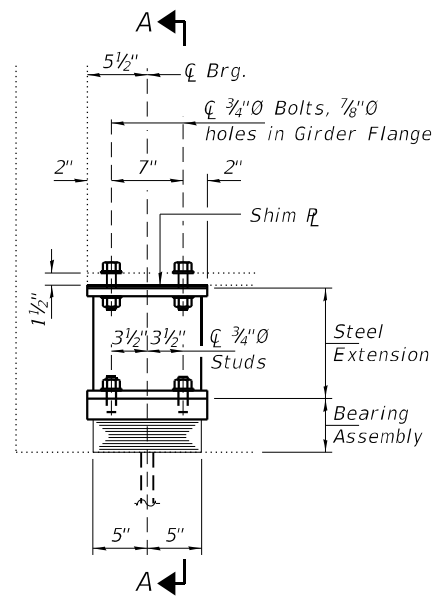
Bar	No.	Size	Length	Shape
d2(E)	20	#4	2'-1"	□
d3(E)	20	#5	2'-9"	—
d4(E)	20	#5	3'-0"	∩
e(E)	7	#5	19'-5"	—
e1(E)	2	#8	19'-5"	—
h2(E)	48	#5	4'-8"	—
u(E)	32	#4	3'-5"	□
v(E)	48	#5	2'-4"	∩
Concrete Superstructure			Cu. Yd.	2.6
Reinforcement Bars, Epoxy Coated			Pound	820

DESIGNED - JSB	EXAMINED - <i>Timothy A. Daulton</i>	DATE - JANUARY 28, 2021
CHECKED - ATH	ENGINEER OF STRUCTURAL SERVICES	
DRAWN - Venkat Ramana Reddy	PASSED - <i>Carl R. ...</i>	REVISD -
CHECKED - JSB ATH	ENGINEER OF BRIDGES AND STRUCTURES	REVISD -

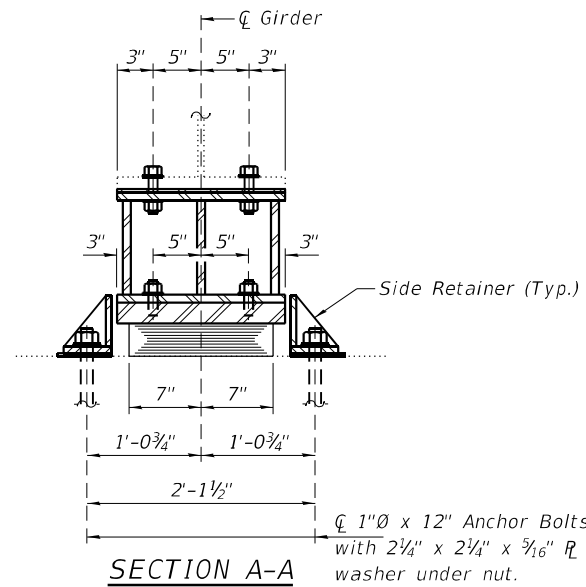
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WINGWALL MODIFICATIONS & PARAPET REPAIR DETAILS
SN 069-0040 (EB) & 0041 (WB)

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
72	(69-8)BDR, BRR-2, SLP-1	MORGAN	41	37
CONTRACT NO. 72M48			ILLINOIS FED. AID PROJECT	



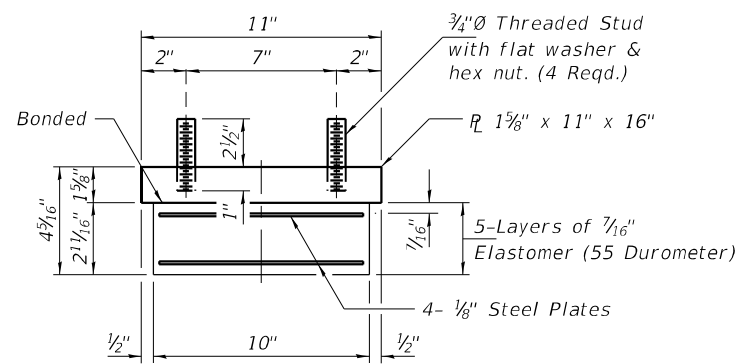
ELEVATION AT ABUTMENT



SECTION A-A

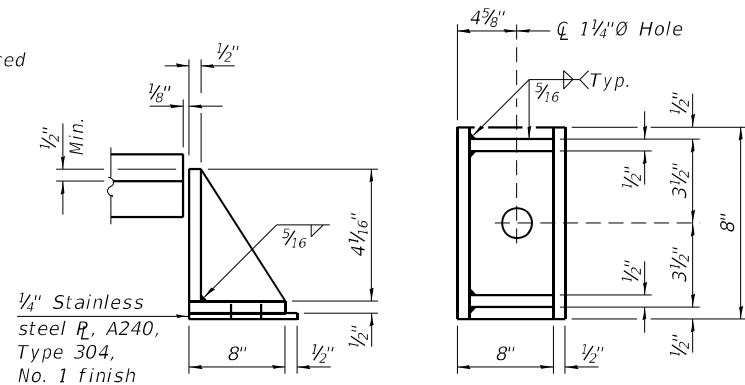
1" x 12" Anchor Bolts with 2 1/4" x 2 1/4" x 5/16" R washer under nut.

TYPE I ELASTOMERIC EXP. BRG.



BEARING ASSEMBLY

Note: Shim plates shall not be placed under Bearing Assembly.



SIDE RETAINER

(48-Required)
Equivalent rolled angle with stiffeners will be allowed in lieu of welded plates.

BEAM REACTIONS

R _φ	(K)	57.85
R _L	(K)	42.65
Imp.	(K)	8.96
R (Total)	(K)	109.46

Notes:

Diaphragm removal and reinstallation may be required to facilitate drilling holes. Cost included with Furnishing and Erecting Structural Steel.

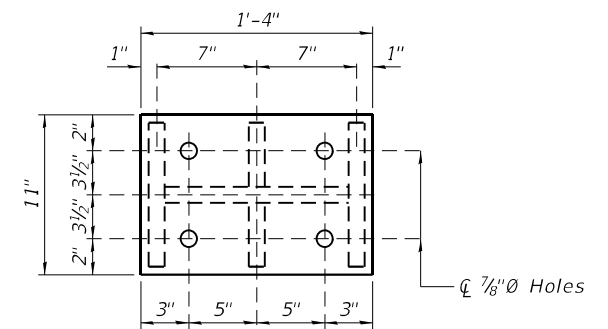
New steel extensions, shim plates and connection bolts are included with Furnishing and Erecting Structural Steel. Prior to ordering any material, the Contractor shall verify in the field all bearing height and shim thickness dimensions. Adjustment must account for deck heave due to pack rust (if present).

Min. jack capacity = 65 Tons.
Anchor bolts shall be ASTM F1554 all-thread (or an Engineer-approved alternate material) of the grade(s) and diameter(s) specified. ASTM A307 Grade C anchor bolts may be used in lieu of ASTM F1554 Grade 36 (F_y=36ksi). The corresponding specified grade of AASHTO M314 anchor bolts may be used in lieu of ASTM F1554.

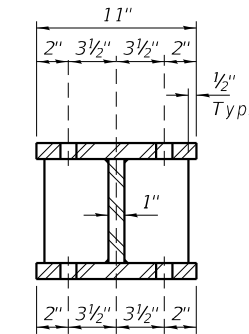
Drilled and set anchor bolts shall be installed according to Article 521.06 of the Standard Specifications.

Cost of Side retainers and Stainless Steel plates shall be included in the cost of Elastomeric Bearing Assembly, Type I.

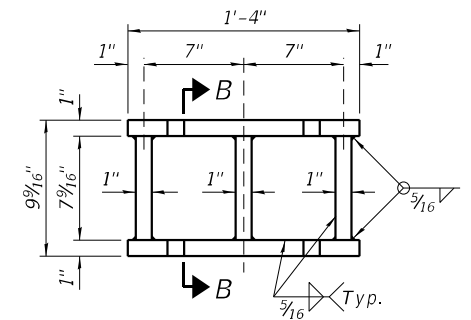
New bearing plates, steel extensions, shim plates, side retainers, anchor bolts, connection bolts, nuts and washers shall be hot dip galvanized according to Special Provision "Hot Dip Galvanizing for Structural Steel".



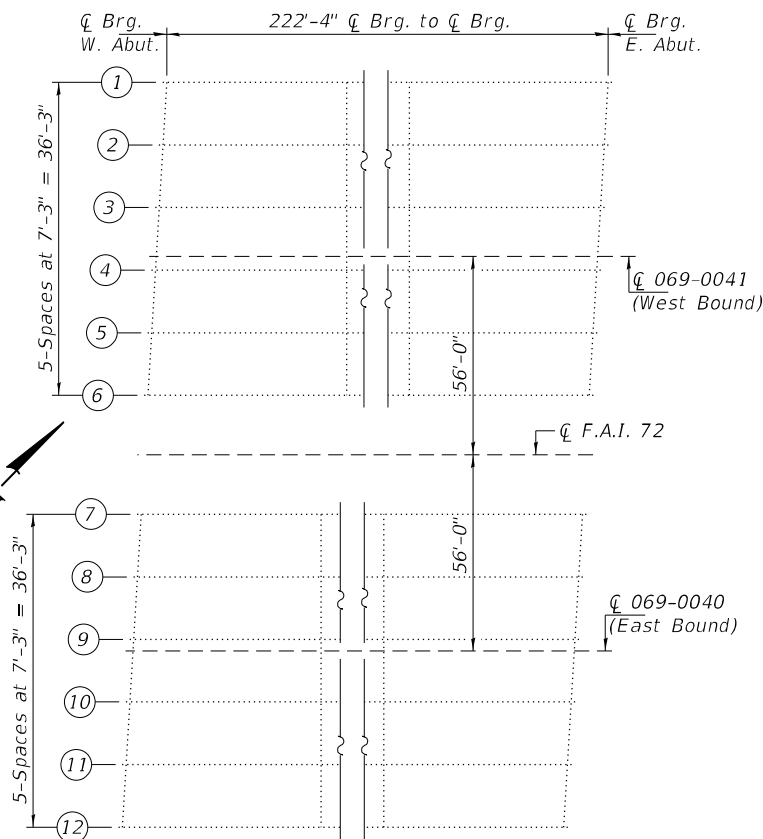
PLAN TOP AND BOTTOM PLATE



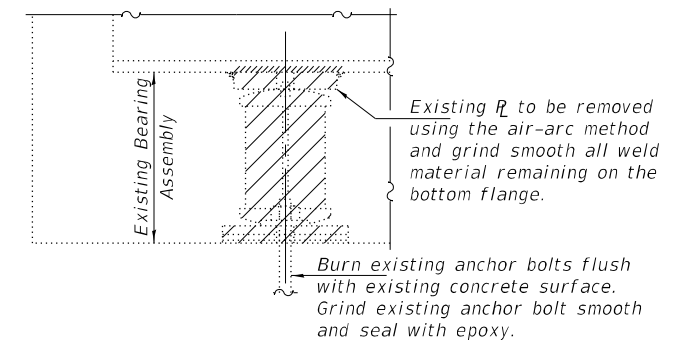
SECTION B-B



STEEL EXTENSION DETAIL



PARTIAL FRAMING PLAN



EXISTING BEARING REMOVAL DETAIL

Cost included with Jack and Remove Existing Bearings.

BILL OF MATERIAL

Item	Unit	Total
Elastomeric Bearing Assembly, Type I	Each	24
Jack and Remove Existing Bearings	Each	24
Furnishing and Erecting Structural Steel	Pound	4690
Anchor Bolts, 1"Ø	Each	48

DESIGNED - JSB
CHECKED - ATH
DRAWN - Venkat Ramana Reddy
CHECKED - JSB ATH

EXAMINED
PASSED
ENGINEER OF BRIDGES AND STRUCTURES

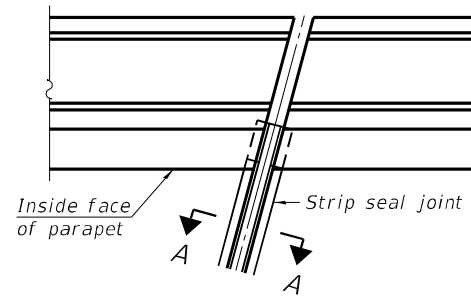
DATE - JANUARY 28, 2021
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

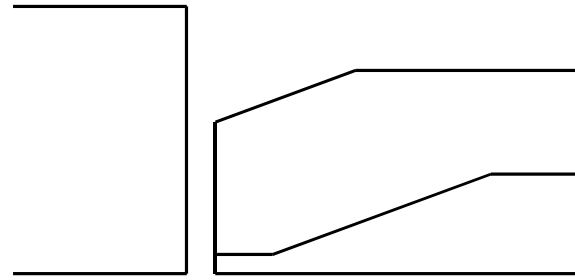
PARTIAL FRAMING PLAN & ABUT. BRG. DETAILS
SN 069-0040 (EB) & 0041 (WB)

SHEET NO. 9 OF 12 SHEETS

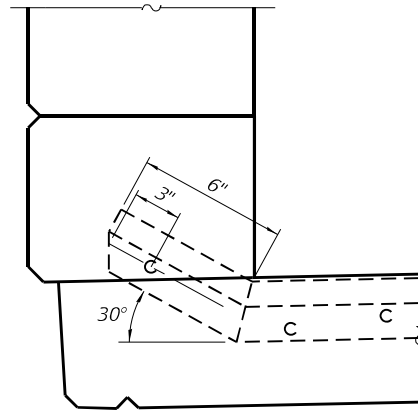
F.A.I. RTE. 72
SECTION (69-8)BDR, BRR-2, SLP-1
COUNTY MORGAN
TOTAL SHEETS 41
SHEET NO. 38
CONTRACT NO. 72M48
ILLINOIS FED. AID PROJECT



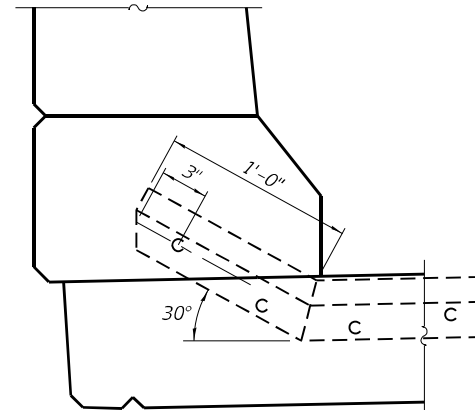
FOR SKEWS $\leq 30^\circ$
PLAN AT PARAPET



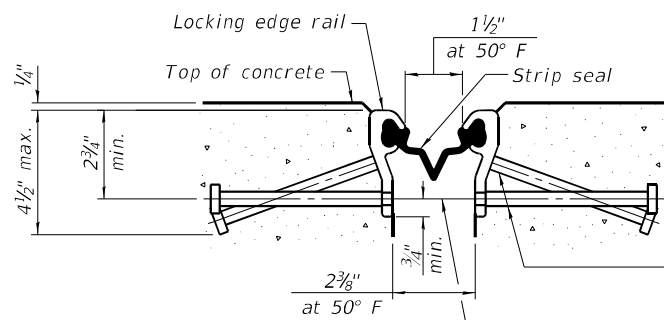
ELEVATION AT PARAPET



PARAPET ELEVATION AT ABUTMENTS
(Skews $\leq 30^\circ$)



PARAPET ELEVATION AT PIERS
(Skews $\leq 30^\circ$)

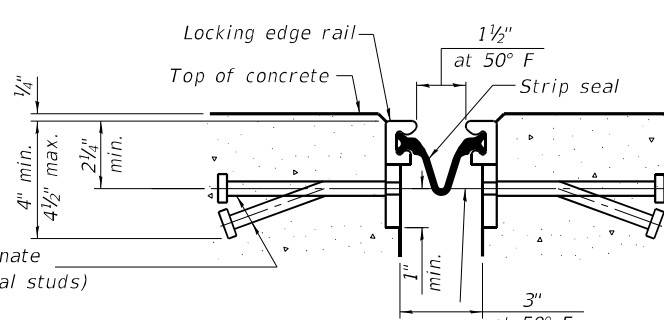


SHOWING ROLLED RAIL JOINT

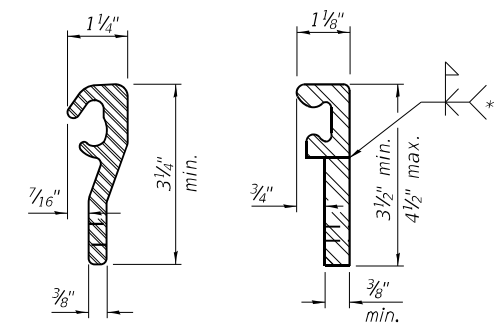
* $\frac{3}{8}$ " ϕ x 6" studs @ 6" cts. (alternate angled/bent studs with horizontal studs)
 $\frac{3}{8}$ " ϕ threaded rods in $\frac{1}{16}$ " ϕ holes at ± 4 "-0" cts. for holding the proper joint opening based on the temperature during the deck pour. Place to miss studs. All rods shall be burned, 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.



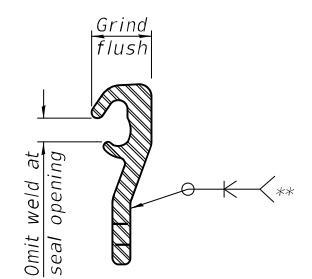
SHOWING WELDED RAIL JOINT



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.

BILL OF MATERIAL

Item	Unit	Total
Preformed Joint Strip Seal	Foot	336

Notes:

The strip seal shall be made continuous and shall have a minimum thickness of $\frac{1}{4}$ ". The configuration of the strip seal shall match the configuration of the locking edge rails. Open or "webbed" strip seal gland configurations are not permitted. The gland shall be sized for a maximum rated movement of 4 inches.

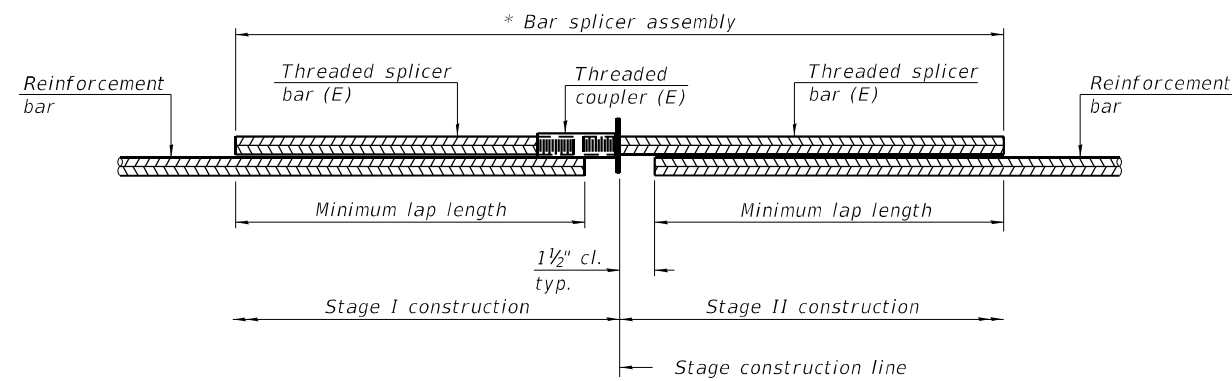
The locking edge rails depicted are configured for typical applications and are conceptual only. The actual configuration of the locking edge rails and matching strip seal may vary from manufacturer to manufacturer provided they fit the application and meet the minimum anchorage shown. Flanged edge rails, however, will not be allowed. Locking edge rails may exceed the $4\frac{1}{2}$ " maximum depth provided the anchorage system is revised according to the manufacturer's recommendation.

The manufacturer's recommended installation methods shall be followed.

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

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

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

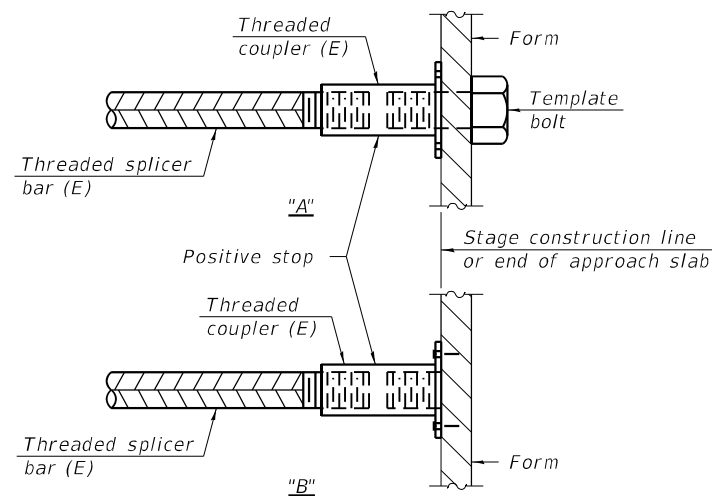


STANDARD BAR SPLICER ASSEMBLY PLAN
 (All components shall be provided from one supplier)

Threaded splicer bar length = min. lap length + 1 1/2" + thread length

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

Location	Bar size	No. assemblies required	Minimum lap length
E. & W. Abut. (0040)	#6	20	4'-0"
E. & W. Abut. (0041)	#6	20	4'-0"

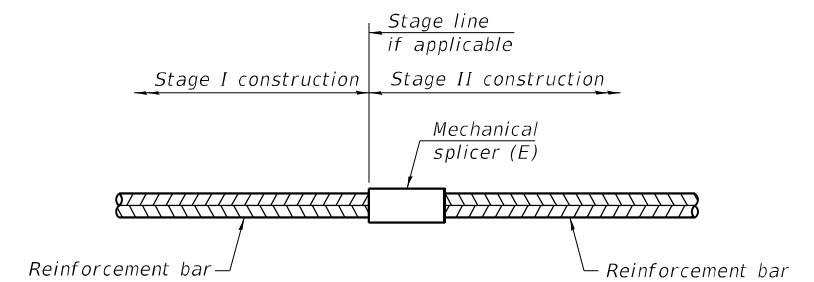


INSTALLATION AND SETTING METHODS

"A" : Set bar splicer assembly by means of a template bolt.

"B" : Set bar splicer assembly by nailing to wood forms or cementing to steel forms.

(E) : Indicates epoxy coating.



STANDARD MECHANICAL SPLICER

Location	Bar size	No. assemblies required

Notes:

Splicer bars shall be deformed with threaded ends and have a minimum 60 ksi yield strength.

All reinforcement shall be lapped and tied to the splicer bars.

Bar splicer assemblies shall be epoxy coated according to the requirements for reinforcement bars. See Section 508 of the Standard Specifications.

See approved list of bar splicer assemblies and mechanical splicers for alternatives.

BSD-1

1-1-2020

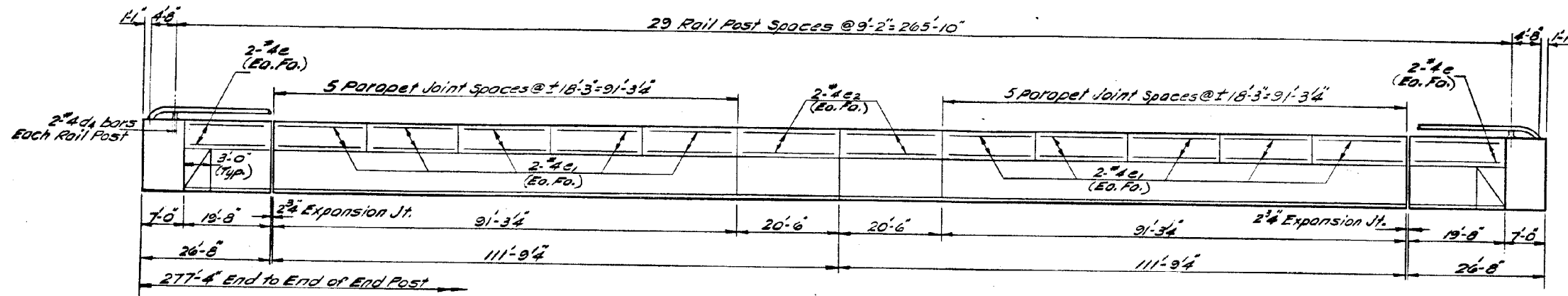
DESIGNED - JSB	EXAMINED	DATE - JANUARY 28, 2021
CHECKED - ATH	<i>Timothy A. ...</i> ENGINEER OF STRUCTURAL SERVICES	REVISED -
DRAWN - Venkat Ramana Reddy	PASSED	REVISED -
CHECKED - JSB ATH	<i>Carl ...</i> ENGINEER OF BRIDGES AND STRUCTURES	

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

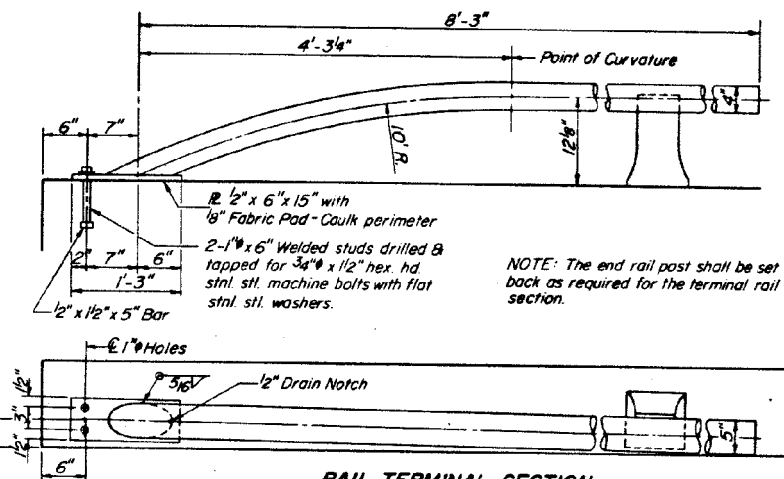
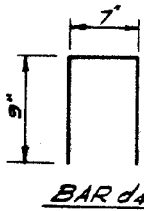
BAR SPLICER ASSEMBLY AND MECHANICAL SPLICER DETAILS
 SN 069 - 0040 (EB) & 0041 (WB)

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
72	(69-8)BDR, BRR-2, SLP-1	MORGAN	41	40
ILLINOIS			CONTRACT NO. 72M48	
FED. AID PROJECT				

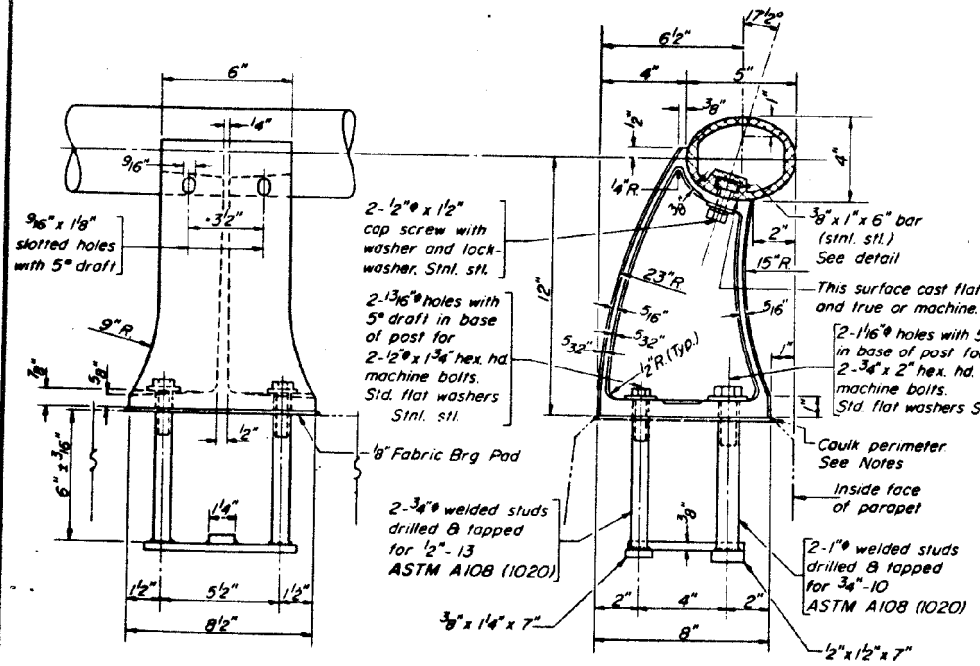
SHEET NO. 11 OF 12 SHEETS



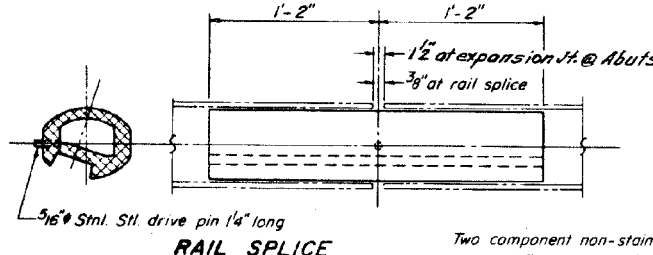
ELEVATION



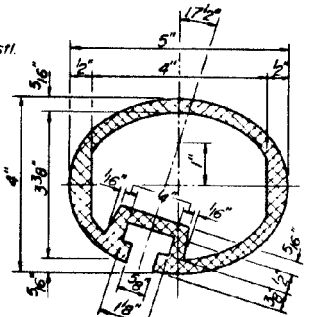
RAIL TERMINAL SECTION



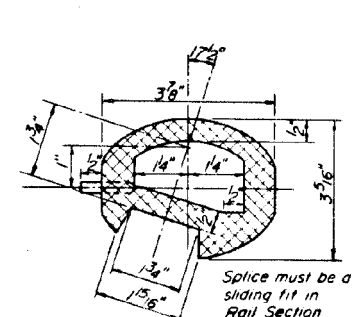
RAIL POST DETAILS



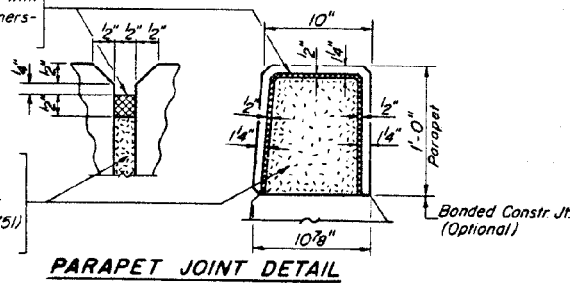
RAIL SPLICE



SEC. THRU ELLIPTICAL RAIL SECTION



SEC. THRU SPLICE



PARAPET JOINT DETAIL

TWO BRIDGES
PARAPETS & RAILS
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
e	32	#4	19'-5"	
e1	160	#4	18'-0"	
e2	32	#4	20'-3"	
d4	240	#4	2'-7"	□
Reinforcement Bars	Los		3110	
Class X Concrete	Cu Yds		34	
Aluminum Railing	Lin Ft		1101	

NOTES:

All Aluminum Alloy Extruded Rail shall be supplied in modular lengths of 30 feet, except at the end of bridge or over open joints in bridge deck where the rail shall be attached to a minimum of 2 posts. If the rail is on a horizontal curve of 2300 foot radius or less, the modular lengths may be reduced but shall be attached to a minimum of 2 posts.

All joints in rail shall be spliced per detail.

Provide 1-8" and 2-1/8" Aluminum Shims for 25% of the Posts. Rail element shall be parallel to Grade - high spots shall be ground and low spots shimmed.

Seal perimeter of base of post to parapet with two component non-staining gray sealing compound with polysulfide liquid polymers, gun grade with primer. Fabric Bearing Pad shall have same dimensions as base of post.

Aluminum alloy rail shall conform to ASTM B221 alloy 6061-T6 or 6351-T5 with min. yield 35 ksi, min. tensile 38 ksi, and elongation of 10% in 2 inches.

ALUMINUM RAILING
EA. RT. 408 SEC. 69-BVHB
MORGAN COUNTY
STA. 1200+01.50

DESIGNED: SHEN, TARA
CHECKED: John A. M...
DRAWN: Leona Heeren
CHECKED: J.A.M. ST

APPROVED: [Signature]
APPROVED: [Signature]

R-17 4-22-68 9-18-69 3-3-71

FOR
INFORMATION
ONLY

