FOR INDEX OF SHEETS, SEE SHEET NO. 2
FOR LIST OF HIGHWAY STANDARDS, SEE SHEET NO. 2

ILLINOIS ROUTE 120 (IL–120)
FUNCTIONAL CLASSIFICATION: OTHER PRINCIPAL ARTERIAL
POSTED SPEED: 55 MPH
ADT: 29800 (2021)

APPLIES TO SHEETS 1-12
LICENSED PROFESSIONAL ENGINEER, STATE OF ILLINOIS
EXPIRES 11 /30 /2023

APPLIES TO SHEETS 13-37, 121-131
LICENSED PROFESSIONAL ENGINEER, STATE OF ILLINOIS
EXPIRES 11 /30 /2023

APPLIES TO SHEETS 38-50
LICENSED PROFESSIONAL ENGINEER, STATE OF ILLINOIS
EXPIRES 11 /30 /2023

APPLIES TO SHEETS 51-75, 112-120
LICENSED STRUCTURAL ENGINEER, STATE OF IL
EXPIRES 11 /30 /2024

APPLIES TO SHEETS 76-111
LICENSED STRUCTURAL ENGINEER, STATE OF ILLINOIS
EXPIRES 11 /30 /2024

MUNICIPALITIES:
VILLAGE OF GURNEE
WARREN TOWNSHIP

PROJECT LIMITS
STA. 575 + 19
STA. 75 + 15

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

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

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

PROJECT ENGINEER: PRAVEEN KAINI, PE (847)–705–4237
PROJECT MANAGER: J. ALAIN MIDY, PE (847)–221–3056

CONTRACT NO. 62P09

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

11-17-2023 LETTING ITEM 025

PROPOSED
HIGHWAY PLANS

FAP ROUTE 0333
IL–120 (BELVIDERE ROAD) BRIDGE OVER DES PLAINES RIVER
SECTION 2021–071–BDR
PROJECT NHPP 9S8Q(362)
BRIDGE DECK REPAIRS & REPLACEMENTS
LAKE COUNTY
C–91–206–21

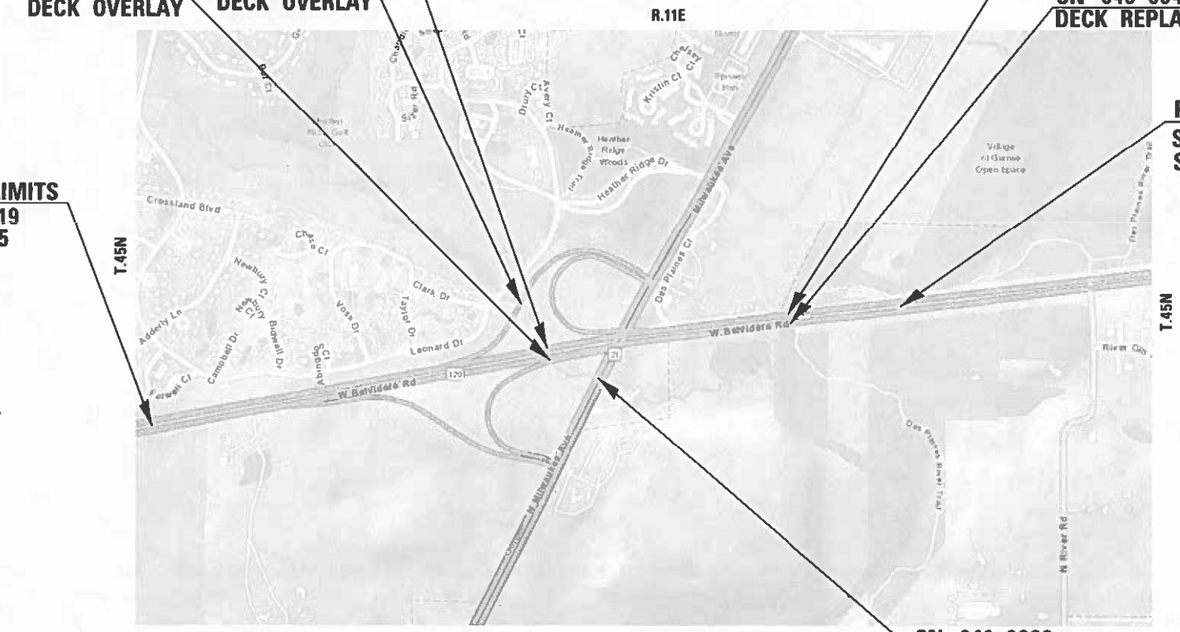
F.A.P. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0333	2021-071-BDR	LAKE	~~131~~ *	1
	ILLINOIS	CONTRACT NO. 62P09		

* 131 + 11 = 142 TOTAL SHEETS

D-91-170-21



LOCATION OF SECTION INDICATED THUS: –



N

LAKE COUNTY

	SN 049–0044	SN 049–0045	SN 049–0046	SN 049–0047	SN 049–0053
GROSS LENGTH =	78 FT. (0.015 MILES)	225 FT. (0.043 MILES)	356 FT. (0.067 MILES)	303 FT. (0.057 MILES)	70.7 FT. (0.014 MILES)
NET LENGTH =	62 FT. (0.012 MILES)	205 FT. (0.039 MILES)	181 FT. (0.034 MILES)	135 FT. (0.026 MILES)	41.9 FT. (0.008 MILES)

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED August 21 20 23
REGIONAL ENGINEER
October 13, 2023
ENGINEER OF DESIGN AND ENVIRONMENT
October 13, 2023
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

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IDOT HIGHWAY STANDARDS

STD NO.	TITLE
000001-08	STANDARD SYMBOLS, ABBREVIATIONS, AND PATTERNS
001001-02	AREAS OF REINFORCEMENT BARS
001006	DECIMAL OF AN INCH AND OF A FOOT
280001-07	TEMPORARY EROSION CONTROL SYSTEMS
420001-10	PAVEMENT JOINTS
420401-13	PAVEMENT CONNECTOR (PCC) FOR BRIDGE APPROACH SLAB
442001-04	CLASS A PATCHES
442101-09	CLASS B PATCHES
482011-03	HMA SHOULDER STRIPS/SHOULDERS WITH RESURFACING OR WIDENING AND RESURFACING PROJECTS
515001-04	NAME PLATE FOR BRIDGES
601001-05	PIPE UNDERDRAINS
630001-12	STEEL PLATE BEAM GUARDRAIL
630201-07	PCC/BITUMINOUS STABILIZATION AT STEEL PLATE BEAM GUARDRAIL
630301-09	SHOULDER WIDENING FOR TYPE I (SPECIAL) GUARDRAIL TERMINALS
631011-10	TRAFFIC BARRIER TERMINAL, TYPE 2
631031-18	TRAFFIC BARRIER TERMINAL, TYPE 6
631061-01	TRAFFIC BARRIER TERMINAL, TYPE 13
635001-02	DELINEATORS
642001-03	SHOULDER RUMBLE STRIPS, 16 IN.
701101-05	OFF-ROAD OPERATIONS, MULTILANE, LESS THAN 15' (4.5 M) TO 24" (600 MM) FROM PAVEMENT EDGE
701411-09	LANE CLOSURE, MULTILANE, AT ENTRANCE OR EXIT RAMP, FOR SPEEDS ≥ 45 MPH
701422-10	LANE CLOSURE, MULTILANE, FOR SPEEDS ≥ 45 MPH TO 55 MPH
701426-09	LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPERATIONS, FOR SPEEDS ≥ 45 MPH
701451-05	RAMP CLOSURE FREEWAY/EXPRESSWAY
701901-08	TRAFFIC CONTROL DEVICES
704001-08	TEMPORARY CONCRETE BARRIER
780001-05	TYPICAL PAVEMENT MARKINGS
782006-01	GUARDRAIL AND BARRIER WALL REFLECTOR MOUNTING DETAILS
701106-02	OFF-ROAD OPERATIONS, MULTILANE, MORE THAN 15' (4.5 M) AWAY
701311-03	LANE CLOSURE, 2L, 2W, MOVING OPERATIONS - DAY ONLY

MODEL: Default
FILE NAME: P:\040058 - IDOT\040058-01-002 (ENG) - PTB 195-016 Phase II On' \On\Engineering\WO 28 - 62P09 IL-120 at DPRI500 Drawings\502 CADD Sheets\D162P09-sht-index-statestandards.dgn

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

INDEX OF SHEETS AND HIGHWAY STANDARDS
IL–120 (BELVIDERE ROAD) BRIDGE OVER DES PLAINES RIVER

SCALE: NONE | SHEET 1 OF 1 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0333	2021-071-BDR	LAKE	131	2
		CONTRACT NO. 62P09		
	ILLINOIS	FED. AID PROJECT		

REV-SEP

GENERAL NOTES

1. BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL J.U.L.I.E. AT (800) 892-0123 OR 811 FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE AND GAS UTILITIES. 48 HOUR NOTIFICATION IS REQUIRED.

2. THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES, LAKE COUNTY, THE VILLAGE OF GURNEE, AND WARREN TOWNSHIP.

3. THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON STATE PROPERTY WITHOUT WRITTEN PERMISSION FROM THE DEPARTMENT.

4. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO CONSTRUCTION AND ORDERING OF MATERIALS.

5. THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE ACCESS TO ABUTTING PROPERTY AT ALL TIMES DURING THE CONSTRUCTION OF THIS PROJECT.

6. DO NOT SCALE PLANS FOR CONSTRUCTION DIMENSIONS.

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

8. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ASCERTAIN EXISTING FIELD CONDITIONS BEFORE BIDDING ON THIS CONTRACT.

9. ALL DAMAGE TO EXISTING PAVEMENT MARKINGS OR RAISED REFLECTIVE PAVEMENT MARKERS OUTSIDE THE REMOVAL LINE SHOWN ON THE PLANS SHALL BE REPLACED AT NO ADDITIONAL COST TO THE DEPARTMENT.

10. THE CONTRACTOR SHALL CONTACT KALPANA KANNAN-HOSADURGA, THE DISTRICT ONE TRAFFIC CONTROL SUPERVISOR, AT KALPANA.KANNAN-HOSADURGA@ILLINOIS.GOV A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING WORK.

11. THE RESIDENT ENGINEER SHALL CONTACT FADI SULTAN, THE AREA TRAFFIC FIELD ENGINEER, AT FADI.SULTAN@ILLINOIS.GOV A MINIMUM OF TWO (2) WEEKS PRIOR TO THE PLACEMENT OF PERMANENT PAVEMENT MARKINGS.

12. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE NOTIFICATION OF ALL EMERGENCY SERVICES, SCHOOL DISTRICTS, I.D.O.T.'S COMMUNICATIONS CENTER, SPRINGFIELD TRUCK PERMIT SECTION AND OTHER AGENCIES AFFECTED BY THE CLOSURE. THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR POSTING SIGNS THAT WILL INDICATE THE DATES THE CLOSURE WILL BE IN PLACE.

13. SAWING OF REMOVAL ITEMS AS NOTED ON THE PLANS, SPECIFIED IN THE STANDARD SPECIFICATIONS, OR AS REQUIRED BY THE ENGINEER SHALL BE INCLUDED IN THE COST OF THE ITEM BEING REMOVED.

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

15. BEFORE BEGINNING ANY WORK, THE CONTRACTOR SHALL RETAIN AND RECORD FOR FUTURE REFERENCE ALL EXISTING PAVEMENT MARKING LINES AND RAISED REFLECTIVE PAVEMENT MARKERS IN ORDER THAT THESE LOCATIONS CAN BE RE-ESTABLISHED FOR STRIPING.

16. THE LOCATIONS OF EXISTING DRAINAGE STRUCTURES, STORM SEWER, WATER MAIN, SANITARY SEWER, AND OTHER PUBLIC OR PRIVATE UTILITIES AS SHOWN ON THE PLANS IS APPROXIMATE, AND THEIR EXACT LOCATION IS TO BE DETERMINED IN THE FIELD BY THE CONTRACTOR. THIS WORK SHALL BE PER ARTICLES 105.07 AND 107.31 OF THE STANDARD SPECIFICATIONS. WHEN REQUIRED, LOCATING UTILITIES SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE PER FOOT FOR EXPLORATION TRENCH, SPECIAL.

17. ANY SUBBASE GRANULAR MATERIAL AND AGGREGATE SUBGRADE IMPROVEMENT CONTAMINATED AND/OR DAMAGED BY THE CONTRACTOR'S VEHICLES AND/OR EQUIPMENT IS TO BE REMOVED AND REPLACED AS DIRECTED BY THE ENGINEER AT CONTRACTORS EXPENSE.

18. ALL TEMPORARY AND PERMANENT PAVEMENT MARKINGS SHALL FOLLOW DISTRICT ONE STANDARD TC-13.

19. ALL TEMPORARY EROSION CONTROL MEASURES SHALL BE PROVIDED TO PROTECT ROADWAY, ADJACENT PROPERTIES, AND WATER COURSES AS PER SECTION 280 OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, LATEST EDITION.

20. THE SUBGRADE STABILITY SHALL BE VERIFIED BY PROOF ROLLING WITH A FULLY LOADED TANDEM-AXLE TRUCK.

21. THE CONTRACTOR SHALL EXERCISE CAUTION WHEN REMOVING OR EXCAVATING NEAR ALL EXISTING ITEMS WHICH WILL REMAIN. ANY DAMAGE DONE TO EXISTING ITEMS BY THE CONTRACTOR SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.

22. THE CONTRACTOR SHALL CONTACT THE IDOT ROADSIDE DEVELOPMENT UNIT AT (847) 705-4171 AT LEAST TWO WEEKS PRIOR TO BEGINNING LANDSCAPE AND FORESTRY WORK.

23. ANY LOOSE MATERIAL DEPOSITED IN THE FLOW LINE OF DRAINAGE CULVERT WHICH OBSTRUCTS THE NATURAL FLOW OF WATER SHALL BE REMOVED AT THE CLOSE OF EACH WORKING DAY. PRIOR TO ACCEPTANCE OF THE IMPROVEMENT, CATCH BASINS AND STORM SEWERS SHALL BE FREE OF DIRT AND DEBRIS.

24. THE CONTRACTOR SHALL CONTACT CLINTON BAILEY, USGS SUPERVISORY HYDROLOGIST, AT CBAILEY@USGS.GOV TWO WEEKS BEFORE BEGINNING OF CONSTRUCTION TO COORDINATE RELOCATION OF RAIN GUAGE.

25. UPON REMOVAL OF THE EXISTING PROTECTIVE SHIELDING, EVERY BOLT HOLE SHALL BE INSPECTED FOR THE PRESENCE OF CRACKS. IF CRACKS ARE NOT FOUND, ALL HOLES WILL BE REDRILLED/REAMED AND FILLED WITH BOLTS. IF CRACKS ARE DISCOVERED, THE CONTRACTOR MUST REPORT THE LOCATION OF CRACKS TO THE ENGINEER IMMEDIATELY, SO AN APPROPRIATE REPAIR PROCEDURE IS DEVELOPED. THIS PROCEDURE WILL NEED TO BE APPROVED BY THE BBS CENTRAL OFFICE REPAIRS UNIT STAFF.

COMMITMENTS

1. NO IN-STREAM WORK PROPOSED IN THE DES PLAINES RIVER.

2. TREES THREE (3) INCHES OR GREATER IN DIAMETER AT BREAST HEIGHT SHALL NOT BE CLEARED FROM APRIL 1ST THROUGH SPETEMBER 30TH OF ANY GIVEN YEAR.

MODEL: Default
FILE NAME: P:\040038 - IDOT\040038-01\002 (ENG) - PTB 195-016 Phase II Var Var\Engineering\WO 28 - 62P09 IL-120 at DPR\300 Drawings\502 CADD Sheets\D162P09-sht-gennotes.dgn

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL NOTES
IL-120 (BELVIDERE ROAD) BRIDGE OVER DES PLAINES RIVER
SCALE: NONE | SHEET 1 OF 1 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0333	2021-071-BDR	LAKE	131	3
		CONTRACT NO. 62P09		
	ILLINOIS	FED. AID PROJECT		

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE				
				80% FED 20% STATE	80% FED 20% STATE	80% FED 20% STATE	80% FED 20% STATE	80% FED 20% STATE
				BRIDGE	BRIDGE	BRIDGE	BRIDGE	BRIDGE
				0020	0059	0059	0013	0059
				SN 049-0026	SN 049-0044	SN 049-0045	SN 049-0046 SN 049-0047	SN 049-0053
20200100	EARTH EXCAVATION	CU YD	1,428.3		3.3		1,425.0	
20700220	POROUS GRANULAR EMBANKMENT	CU YD	1,021				1,021	
20900110	POROUS GRANULAR BACKFILL	CU YD	23.2		6.2		17.0	
21101505	TOPSOIL EXCAVATION AND PLACEMENT	CU YD	1,912				1,912	
25100115	MULCH, METHOD 2	ACRE	0.4				0.4	
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	43				43	
28000305	TEMPORARY DITCH CHECKS	FOOT	160				160	
28000400	PERIMETER EROSION BARRIER	FOOT	70				70	
28100713	STONE DUMPED RIPRAP, CLASS A7	SQ YD	332	332				
28400100	GABIONS	CU YD	170		52	66		52
28401000	SLOPE MATTRESS 12"	SQ YD	137		40	39		58
31101200	SUBBASE GRANULAR MATERIAL, TYPE B 4"	SQ YD	3,626				3,626	
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	2,390		85	347	1,896	62
40600370	LONGITUDINAL JOINT SEALANT	FOOT	1,329		15	615	579	120
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	1,117			533	584	

* SPECIALTY ITEMS

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES
IL-120 (BELVIDERE ROAD) BRIDGE OVER DES PLAINES RIVER

SCALE: NONE | SHEET 1 OF 9 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0333	2021-071-BDR	LAKE	131	4
		CONTRACT NO. 62P09		
	ILLINOIS FED. AID PROJECT			

MODEL: Default
FILE NAME: P:\040058\01-002 (ENG) - PTB 195-016 Phase II Var Vor\Engineering\WO 28 - 62P09 IL-120 at DPR\300 Drawings\502 CADD Sheets\D162P09-smi-SQ001.dgn

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE: 80% FED 20% STATE BRIDGE 0020 SN 049-0026	80% FED 20% STATE BRIDGE 0059 SN 049-0044	80% FED 20% STATE BRIDGE 0059 SN 049-0045	80% FED 20% STATE BRIDGE 0013 SN 049-0046 SN 049-0047	80% FED 20% STATE BRIDGE 0059 SN 049-0053
40605026	POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, STONE MATRIX ASPHALT, 9.5, MIX "F", N80	TON	189		86	21	66	16
42000080	PAVEMENT CONNECTOR (PCC) FOR BRIDGE APPROACH SLAB	SQ YD	130.97				130.97	
44000100	PAVEMENT REMOVAL	SQ YD	3,675				3,675	
44000151	HOT-MIX ASPHALT SURFACE REMOVAL, 1/2"	SQ YD	771			771		
44000157	HOT-MIX ASPHALT SURFACE REMOVAL, 2"	SQ YD	428		189			239
44000159	HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/2"	SQ YD	133		133			
44201013	CLASS B PATCHES, TYPE IV, 13 INCH	SQ YD	306			306		
44201299	DOWEL BARS 1 1/2"	EACH	56			56		
44213000	PATCHING REINFORCEMENT	SQ YD	306			306		
44213200	SAW CUTS	FOOT	64			64		
44213208	TIE BARS 1 1/4"	EACH	128			128		
48101500	AGGREGATE SHOULDERS, TYPE B 6"	SQ YD	929				929	
50102400	CONCRETE REMOVAL	CU YD	48.5			1.0	46.6	0.9
50104000	BRIDGE RAIL REMOVAL	FOOT	1,538.0		62.0		1,416.0	60.0
50104650	SLOPE WALL REMOVAL	SQ YD	258.0				258.0	

* SPECIALTY ITEMS

MODEL: Default
FILE NAME: P:\040058 - IDOT\040058-01-002 (ENG) - PTB 195-016 Phase II Var Vol\Engineering\WO 28 - 62P09 IL-120 at DPR\500 Drawings\502 CADD Sheets\D162P09-smt-SQQ02.dgn

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES
IL-120 (BELVIDERE ROAD) BRIDGE OVER DES PLAINES RIVER

SCALE: NONE | SHEET 2 OF 9 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0333	2021-071-BDR	LAKE	131	5
		CONTRACT NO. 62P09		
		ILLINOIS	FED. AID PROJECT	

REV-SEP

	CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE: 80% FED 20% STATE BRIDGE 0020 SN 049-0026	80% FED 20% STATE BRIDGE 0059 SN 049-0044	80% FED 20% STATE BRIDGE 0059 SN 049-0045	80% FED 20% STATE BRIDGE 0013 SN 049-0046 SN 049-0047	80% FED 20% STATE BRIDGE 0059 SN 049-0053
	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	1,172.0				1,172.0	
	50200100	STRUCTURE EXCAVATION	CU YD	454				454	
	50300225	CONCRETE STRUCTURES	CU YD	57.9				57.9	
	50300255	CONCRETE SUPERSTRUCTURE	CU YD	551.7				551.7	
	50300300	PROTECTIVE COAT	SQ YD	2,963		144	428	2,278	113
	50301350	CONCRETE SUPERSTRUCTURE (APPROACH SLAB)	CU YD	225.9				225.0	0.9
*	50500405	FURNISHING AND ERECTING STRUCTURAL STEEL	POUND	5,910				5,910	
	50500505	STUD SHEAR CONNECTORS	EACH	5,712.0				5,712.0	
	50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	232,450				231,240	210
	50800515	BAR SPLICERS	EACH	166				166	
*	50900207	STEEL RAILING, TYPE CO-10	FOOT	154		62	32		60
	51100300	SLOPE WALL 6 INCH	SQ YD	258.0				258.0	
*	51500100	NAME PLATES	EACH	2				2	

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES
IL-120 (BELVIDERE ROAD) BRIDGE OVER DES PLAINES RIVER

SCALE: NONE | SHEET 3 OF 9 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0333	2021-071-BDR	LAKE	131	6
		CONTRACT NO. 62P09		
		ILLINOIS FED. AID PROJECT		

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				CONSTRUCTION CODE				
				80% FED 20% STATE	80% FED 20% STATE	80% FED 20% STATE	80% FED 20% STATE	80% FED 20% STATE
CODE NO.	ITEM	UNIT	TOTAL QUANTITY	BRIDGE 0020 SN 049-0026	BRIDGE 0059 SN 049-0044	BRIDGE 0059 SN 049-0045	BRIDGE 0013 SN 049-0046 SN 049-0047	BRIDGE 0059 SN 049-0053
52100010	ELASTOMERIC BEARING ASSEMBLY, TYPE I	EACH	28				28	
52100020	ELASTOMERIC BEARING ASSEMBLY, TYPE II	EACH	14				14	
52100520	ANCHOR BOLTS, 1"	EACH	80			24	56	
52100530	ANCHOR BOLTS, 1 1/4"	EACH	28				28	
550B0340	STORM SEWERS, CLASS B, TYPE 2 12"	FOOT	18		18			
55100500	STORM SEWER REMOVAL 12"	FOOT	18		18			
58600101	GRANULAR BACKFILL FOR STRUCTURES	CU YD	147				147	
58700300	CONCRETE SEALER	SQ FT	7,301	3,567	911	1,251	798	774
59000200	EPOXY CRACK INJECTION	FOOT	359	184	86	42		47
59100100	GEOCOMPOSITE WALL DRAIN	SQ YD	64				64	
60108204	PIPE UNDERDRAINS, TYPE 2, 4"	FOOT	1,126				1,126	
60146304	PIPE UNDERDRAINS FOR STRUCTURES 4"	FOOT	334				334	
* 63000001	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	FOOT	1,196			175	1,021	
* 63100045	TRAFFIC BARRIER TERMINAL, TYPE 2	EACH	2				2	

* SPECIALTY ITEMS

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PLOT DATE = 08/28/2023	DATE - 08/28/2023	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES
IL-120 (BELVIDERE ROAD) BRIDGE OVER DES PLAINES RIVER

SCALE: NONE | SHEET 4 OF 9 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0333	2021-071-BDR	LAKE	131	7
		CONTRACT NO. 62P09		
		ILLINOIS	FED. AID PROJECT	

REV-SEP

MODEL: Default
FILE NAME: P:\040058 - IDOT\040058-01-002 (ENG) - PTB 195-016 Phase II Var Von\Engineering\WO 28 - 62P09 IL-120 at DPR\500 Drawings\502 CADD Sheets\D162P09-snt-SQQ04.dgn

	CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE: 80% FED 20% STATE BRIDGE 0020 SN 049-0026	80% FED 20% STATE BRIDGE 0059 SN 049-0044	80% FED 20% STATE BRIDGE 0059 SN 049-0045	80% FED 20% STATE BRIDGE 0013 SN 049-0046 SN 049-0047	80% FED 20% STATE BRIDGE 0059 SN 049-0053
*	63100085	TRAFFIC BARRIER TERMINAL, TYPE 6	EACH	9			1	8	
*	63100117	TRAFFIC BARRIER TERMINAL, TYPE 13	EACH	3			3		
*	63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	8			4	4	
	63200310	GUARDRAIL REMOVAL	FOOT	1,968			422	1,546	
	63800920	MODULAR GLARE SCREEN SYSTEM, TEMPORARY	FOOT	6,610				6,610	
	64200116	SHOULDER RUMBLE STRIPS, 16 INCH	FOOT	11,701				11,701	
*	66900200	NON-SPECIAL WASTE DISPOSAL	CU YD	225				225	
*	66900530	SOIL DISPOSAL ANALYSIS	EACH	2				2	
*	66901001	REGULATED SUBSTANCES PRE-CONSTRUCTION PLAN	L SUM	1				1	
*	66901003	REGULATED SUBSTANCES FINAL CONSTRUCTION REPORT	L SUM	1				1	
*	66901006	REGULATED SUBSTANCES MONITORING	CAL DA	5				5	
	67100100	MOBILIZATION	L SUM	1				1	
	70103815	TRAFFIC CONTROL SURVEILLANCE	CAL DA	244				244	
	70300100	SHORT TERM PAVEMENT MARKING	FOOT	2,172				2,172	
	70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SQ FT	484				484	

* SPECIALTY ITEMS

				CONSTRUCTION CODE				
				80% FED 20% STATE	80% FED 20% STATE	80% FED 20% STATE	80% FED 20% STATE	80% FED 20% STATE
CODE NO.	ITEM	UNIT	TOTAL QUANTITY	BRIDGE 0020 SN 049-0026	BRIDGE 0059 SN 049-0044	BRIDGE 0059 SN 049-0045	BRIDGE 0013 SN 049-0046 SN 049-0047	BRIDGE 0059 SN 049-0053
70307120	TEMPORARY PAVEMENT MARKING - LINE 4" - TYPE IV TAPE	FOOT	38,873				38,873	
70307125	TEMPORARY PAVEMENT MARKING - LINE 5" - TYPE IV TAPE	FOOT	9,868				9,868	
70400100	TEMPORARY CONCRETE BARRIER	FOOT	5,288				5,288	
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	4,713				4,713	
70600260	IMPACT ATTENUATORS, TEMPORARY (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3	EACH	2				2	
70600332	IMPACT ATTENUATORS, RELOCATE (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3	EACH	2				2	
* 78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	23,074				23,074	
* 78000500	THERMOPLASTIC PAVEMENT MARKING - LINE 8"	FOOT	1,281				1,281	
* 78004635	PREFORMED PLASTIC PAVEMENT MARKING, TYPE D - STANDARD - LINE 7"	FOOT	140				140	
* 78009004	MODIFIED URETHANE PAVEMENT MARKING - LINE 4"	FOOT	1,117				1,117	
* 78011040	GROOVING FOR RECESSED PAVEMENT MARKING 8"	FOOT	140				140	
* 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	13				13	
* 78200006	GUARDRAIL REFLECTORS, TYPE B	EACH	23				23	
* 78200011	BARRIER WALL REFLECTORS, TYPE C	EACH	277				277	
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	13				13	

* SPECIALTY ITEMS

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES
IL-120 (BELVIDERE ROAD) BRIDGE OVER DES PLAINES RIVER

SCALE: NONE | SHEET 6 OF 9 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0333	2021-071-BDR	LAKE	131	9
		CONTRACT NO. 62P09		
	ILLINOIS FED. AID PROJECT			

MODEL: Default
FILE NAME: P:\040058 - IDOT\040058-01-002 (ENG) - PTB 195-016 Phase II Var Var\Engineering\WO 28 - 62P09 IL-120 at DPR\500 Drawings\502 CADD Sheets\D162P09-smi-SQ006.dgn

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE: 80% FED 20% STATE BRIDGE 0020 SN 049-0026	80% FED 20% STATE BRIDGE 0059 SN 049-0044	80% FED 20% STATE BRIDGE 0059 SN 049-0045	80% FED 20% STATE BRIDGE 0013 SN 049-0046 SN 049-0047	80% FED 20% STATE BRIDGE 0059 SN 049-0053
78300202	PAVEMENT MARKING REMOVAL - WATER BLASTING	SQ FT	6,178				6,178	
80400100	ELECTRICAL SERVICE INSTALLATION	EACH	1				1	
X0324198	REMOVAL OF ASBESTOS CEMENT CONDUIT	FOOT	1,436				1,436	
80400200	ELECTRICAL UTILITY SERVICE CONNECTION	LSUM	1				1	
X0325734	SLOTTED DRAIN REMOVAL	FOOT	1,126				1,126	
81603040	UNIT DUCT, 600V, 2-1/C NO.6, 1/C NO.8 GROUND, (XLP-TYPE USE), 1" DIA. POLYETHYLENE	FOOT	342				342	
X0326766	CLEAN & RESEAL RELIEF JOINT	FOOT	165		74	60		31
81800230	AERIAL CABLE, 2-1/C NO.6 WITH MESSENGER WIRE	FOOT	1,399				1,399	
X0900075	COFFERDAM (TYPE 1) (IN-STREAM/WETLAND WORK)	EACH	3.0	1.0	0.5	0.5		1.0
81800330	AERIAL CABLE, 3-1/C NO. 6 WITH MESSENGER WIRE	FOOT	1,498				1,498	
X1900002	INTERSEEDING, CLASS 4 (MODIFIED)	ACRE	5.6				5.6	
83057405	LIGHT POLE, WOOD, 70 FOOT, CLASS 3, WITH 15FT MAST ARM	EACH	13				13	
X2500322	SEEDING, CLASS 5A, (MODIFIED)	ACRE	0.1				0.1	
X0322141	REMOVE TEMPORARY WOOD POLE	EACH	14				14	
X2501800	SEEDING, CLASS 4 (MODIFIED)	ACRE	1.2				1.2	
X0327236	TEMPORARY WOOD POLE, 50 FT., CLASS 4	EACH	1				1	
X2511630	EROSION CONTROL BLANKET (SPECIAL)	SQ YD	5,738				5,738	
X2840105	GABION REMOVAL	CU YD	170		52	66		52
X5030250	BRIDGE DECK GROOVING (LONGITUDINAL)	SQ YD	1,620		82	222	1,266	50
X5060704	CLEANING AND PAINTING EXPOSED REBAR	SQ FT	296		100	83		113
☐ X5537800	STORM SEWERS TO BE CLEANED 12"	FOOT	115				115	
X6420002	FILLING EXISTING RUMBLE STRIP	FOOT	11,701				11,701	
X6700410	ENGINEER'S FIELD OFFICE, TYPE A (SPECIAL)	CAL MO	12				12	

☐ NON-PART 100% STATE * SPECIALTY ITEMS

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES
IL-120 (BELVIDERE ROAD) BRIDGE OVER DES PLAINES RIVER

SCALE: NONE | SHEET 7 OF 9 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0333	2021-071-BDR	LAKE	131	10
		CONTRACT NO. 62P09		
	ILLINOIS	FED. AID PROJECT		

REV-SEP

MODEL: Default
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	CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE				
					80% FED 20% STATE	80% FED 20% STATE	80% FED 20% STATE	80% FED 20% STATE	80% FED 20% STATE
					BRIDGE	BRIDGE	BRIDGE	BRIDGE	BRIDGE
					0020	0059	0059	0013	0059
					SN 049-0026	SN 049-0044	SN 049-0045	SN 049-0046 SN 049-0047	SN 049-0053
	X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1				1	
	X7010410	SPEED DISPLAY TRAILER	CAL MO	20				20	
	X7830050	RAISED REFLECTIVE PAVEMENT MARKER, REFLECTOR REMOVAL	EACH	13				13	
*	X7830052	RAISED REFLECTIVE PAVEMENT MARKER, REFLECTOR REPLACEMENT	EACH	163				163	
	X8211009	TEMPORARY LUMINAIRE, LED, ROADWAY, OUTPUT DESIGNATION I	EACH	13				13	
	Z0001899	JACK AND REMOVE EXISTING BEARINGS	EACH	42.0				42.0	
	X8250065	TEMPORARY LIGHTING CONTROLLER, 240 VOLT, POLE MOUNTED	EACH	1				1	
	Z0001903	STRUCTURAL STEEL REMOVAL	POUND	7150				7150	
	Z0001905	STRUCTURAL STEEL REPAIR	POUND	600				600	
	Z0033028	MAINTENANCE OF LIGHTING SYSTEM	CAL MO	12				12	
	Z0004552	APPROACH SLAB REMOVAL	SQ YD	366				366	
	Z0006014	BRIDGE DECK LATEX CONCRETE OVERLAY, 2 1/2 INCHES	SQ YD	408			408		
	Z0006018	BRIDGE DECK LATEX CONCRETE OVERLAY, 3 INCHES	SQ YD	102					102
	Z0006020	BRIDGE DECK LATEX CONCRETE OVERLAY, 3 1/2 INCHES	SQ YD	133		133			
	Z0012130	BRIDGE DECK SCARIFICATION 3/4"	SQ YD	643		133	408		102
	Z0012754	STRUCTURAL REPAIR OF CONCRETE (DEPTH EQUAL TO OR LESS THAN 5 INCHES)	SQ FT	412.0	140	105	43	105.0	19
	Z0012755	STRUCTURAL REPAIR OF CONCRETE (DEPTH GREATER THAN 5 INCHES)	SQ FT	2.0				2.0	
	Z0013798	CONSTRUCTION LAYOUT	L SUM	1				1	

* SPECIALTY ITEMS

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES
IL-120 (BELVIDERE ROAD) BRIDGE OVER DES PLAINES RIVER

SCALE: NONE | SHEET 8 OF 9 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0333	2021-071-BDR	LAKE	131	11
		CONTRACT NO. 62P09		
	ILLINOIS FED. AID PROJECT			

REV-SEP

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				CONSTRUCTION CODE				
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CODE NO.	ITEM	UNIT	TOTAL QUANTITY	BRIDGE 0020 SN 049-0026	BRIDGE 0059 SN 049-0044	BRIDGE 0059 SN 049-0045	BRIDGE 0013 SN 049-0046 SN 049-0047	BRIDGE 0059 SN 049-0053
Z0015500	DEBRIS REMOVAL	L SUM	1			1		
Z0018500	DRAINAGE STRUCTURES TO BE CLEANED	EACH	1				1	
Z0016702	DETOUR SIGNING	L SUM	1				1	
Z0018002	DRAINAGE SCUPPERS, DS-11	EACH	8.0				8.0	
Z0018905	DRILL AND GROUT BARS	EACH	62					62
Z0029090	DIAMOND GRINDING (BRIDGE SECTION)	SQ YD	2,398		119	394	1,796	89
Z0030850	TEMPORARY INFORMATION SIGNING	SQ FT	375				375	
Z0040530	PIPE UNDERDRAIN REMOVAL	FOOT	1,126				1,126	
Z0041895	POLYMER CONCRETE	CU FT	15.9		5	7.9		3
Z0062456	TEMPORARY PAVEMENT	SQ YD	3,626				3,626	
Z0065740	SLOTTED DRAIN 12" WITH VARIABLE SLOT	FOOT	1,126				1,126	
Z0073510	TEMPORARY TRAFFIC SIGNAL TIMING	EACH	5				5	
K0029620	WEED CONTROL BROADLEAF WEED CONTROL	GALLON	1				1	
Ø Z0076600	TRAINEES	HOURS	500	500				
Ø Z0076604	TRAINEES - TRAINING PROGRAM GRADUATE	HOURS	500	500				

Ø 0042

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

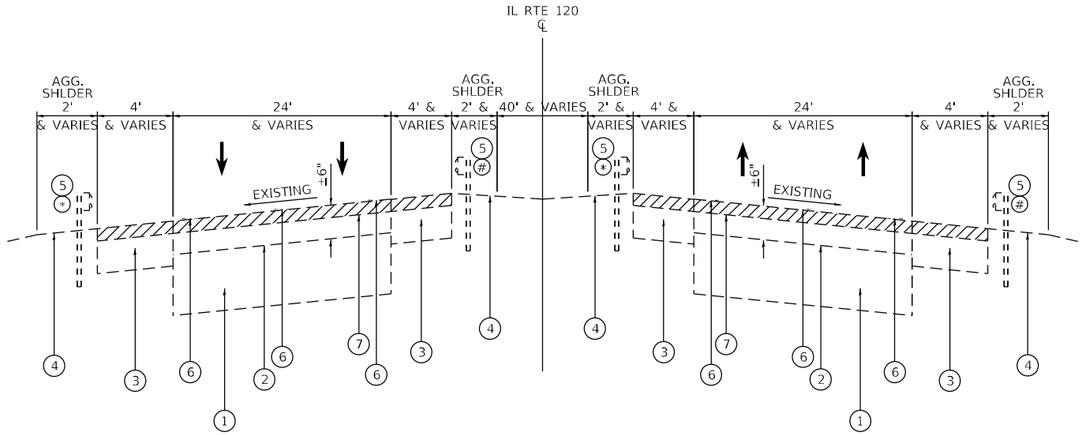
SUMMARY OF QUANTITIES
IL-120 (BELVIDERE ROAD) BRIDGE OVER DES PLAINES RIVER

SCALE: NONE | SHEET 9 OF 9 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0333	2021-071-BDR	LAKE	131	12
		CONTRACT NO. 62P09		
	ILLINOIS FED. AID PROJECT			

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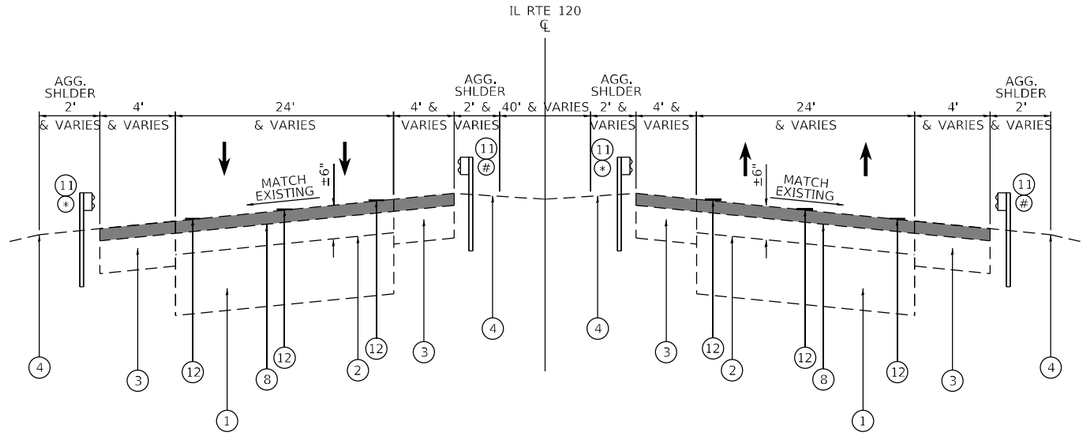
EXISTING TYPICAL SECTION

WESTBOUND
STA. 119+42 TO STA. 119+66
STA. 119+96 TO STA. 120+20

GUARDRAIL LIMITS
(*) STA. 119+90 TO STA. 120+55 (NORTH)
(#) STA. 120+01 TO STA. 120+65 (SOUTH)

EASTBOUND
STA. 618+92 TO STA. 619+86
STA. 620+16 TO STA. 621+17

GUARDRAIL LIMITS
(*) STA. 617+25 TO STA. 619+80 (NORTH)
(#) STA. 618+15 TO STA. 619+98 (SOUTH, ALONG RAMP)



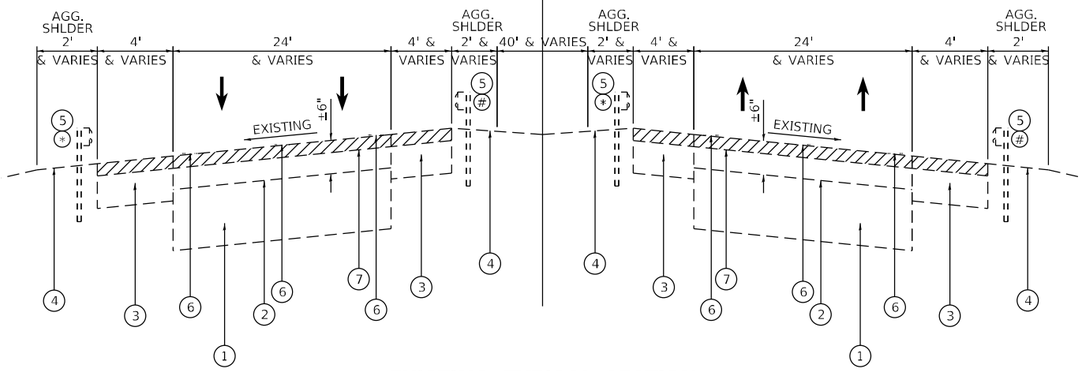
PROPOSED TYPICAL SECTION

WESTBOUND
STA. 119+42 TO STA. 119+66
STA. 119+96 TO STA. 120+20

GUARDRAIL LIMITS
(*) STA. 119+78 TO STA. 120+68 (NORTH)
(#) STA. 119+89 TO STA. 120+79 (SOUTH)

EASTBOUND
STA. 618+92 TO STA. 619+86
STA. 620+16 TO STA. 621+17

GUARDRAIL LIMITS
(*) STA. 617+25 TO STA. 619+80 (NORTH)
(#) STA. 619+00 TO STA. 619+98 (SOUTH, ALONG RAMP)



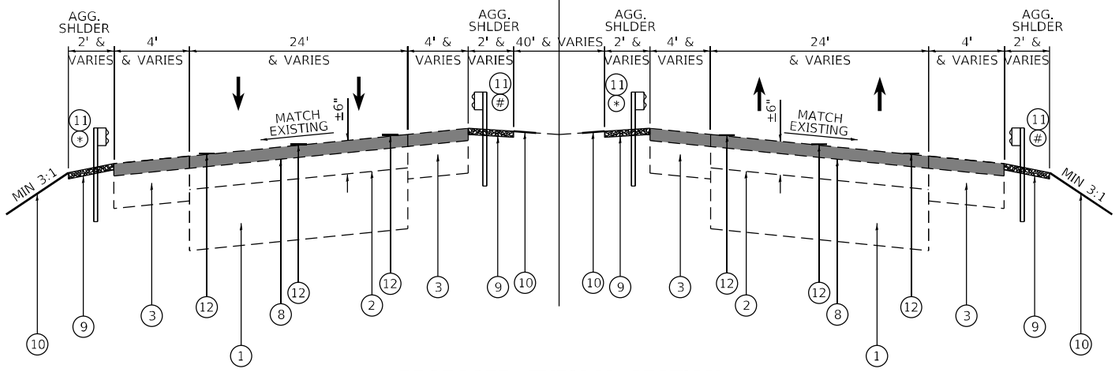
EXISTING TYPICAL SECTION

WESTBOUND
STA. 135+15 TO STA. 135+40
STA. 137+71 TO STA. 138+18

GUARDRAIL LIMITS
(*) STA. 129+57 TO STA. 135+56 (NORTH)
(#) STA. 133+33 TO STA. 135+46 (SOUTH)
(*) STA. 137+67 TO STA. 148+34 (NORTH)
(#) STA. 137+56 TO STA. 139+95 (SOUTH)

EASTBOUND
STA. 634+50 TO STA. 635+14
STA. 637+53 TO STA. 638+06

GUARDRAIL LIMITS
(*) STA. 632+96 TO STA. 635+51 (NORTH)
(#) STA. 631+80 TO STA. 635+35 (SOUTH)
(*) STA. 637+44 TO STA. 639+57 (NORTH)
(#) STA. 637+12 TO STA. 637+93 (SOUTH)



PROPOSED TYPICAL SECTION

WESTBOUND
STA. 135+15 TO STA. 135+36
STA. 137+76 TO STA. 138+18

GUARDRAIL AND GRADING LIMITS
(*) STA. 134+99 TO STA. 135+56 (NORTH)
(#) STA. 133+33 TO STA. 135+46 (SOUTH)
(*) STA. 137+67 TO STA. 138+48 (NORTH)
(#) STA. 137+56 TO STA. 139+95 (SOUTH)

EASTBOUND
STA. 634+50 TO STA. 635+14
STA. 637+53 TO STA. 638+06

GUARDRAIL AND GRADING LIMITS
(*) STA. 632+96 TO STA. 635+51 (NORTH)
(#) STA. 631+80 TO STA. 635+35 (SOUTH)
(*) STA. 637+44 TO STA. 639+57 (NORTH)
(#) STA. 637+12 TO STA. 637+93 (SOUTH)

EXISTING LEGEND

1. EXISTING PORTLAND CEMENT CONCRETE PAVEMENT ± 11"
2. EXISTING HOT-MIX ASPHALT SURFACE COURSE ± 4" (AFTER MILLING)
3. EXISTING HOT-MIX ASPHALT SHOULDER
4. EXISTING AGGREGATE SHOULDER ± 8"
5. EXISTING GUARDRAIL
6. EXISTING PAVEMENT MARKING

PROPOSED LEGEND

7. PROPOSED HOT-MIX ASPHALT SURFACE REMOVAL
8. PROPOSED POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, STONE MATRIX ASPHALT, 9.5, MIX "F", N80
9. PROPOSED AGGREGATE SHOULDER
10. PROPOSED GRADING
11. PROPOSED GUARDRAIL
12. PROPOSED PAVEMENT MARKING

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Accurate GROUP, INC.

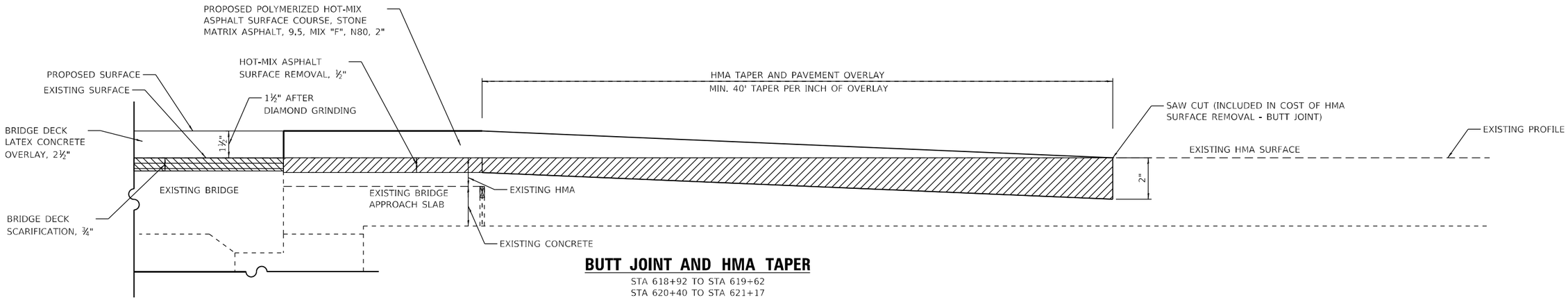
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PLOT DATE = 8/28/2023	DATE - 06/20/2023	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS
ILLINOIS ROUTE 120 OVER DES PLAINES RIVER

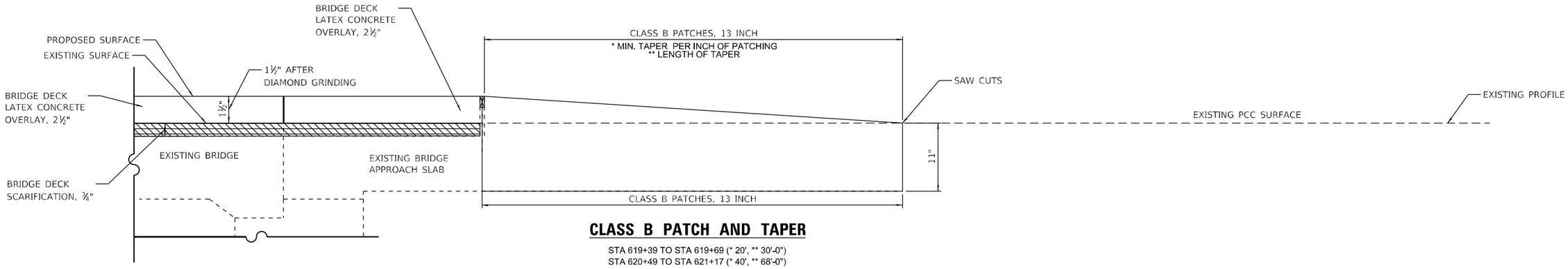
SCALE: NONE | SHEET 1 OF 2 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0333	2021-071-BDR	LAKE	131	13
		CONTRACT NO. 62P09		
		ILLINOIS	FED. AID PROJECT	



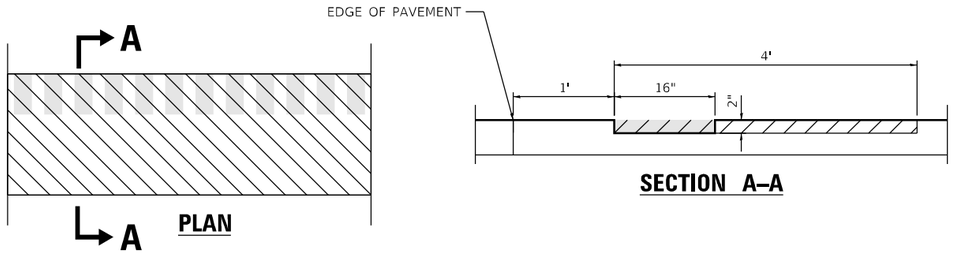
BUTT JOINT AND HMA TAPER

STA 618+92 TO STA 619+62
STA 620+40 TO STA 621+17



CLASS B PATCH AND TAPER

STA 619+39 TO STA 619+69 (* 20', ** 30'-0")
STA 620+49 TO STA 621+17 (* 40', ** 68'-0")
STA 620+57 TO STA 621+17 (* 40', ** 60'-0")



HMA MIXTURE REQUIREMENTS CHART

OPERATION	MIXTURE TYPE	AIR VOIDS (%) @ Ndes	QUALITY MANAGEMENT PROGRAM (QMP)
HOT-MIX ASPHALT SURFACE, 2"	PROPOSED POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, STONE MATRIX ASPHALT, 9.5, MIX "F", N80, 2"	3.5% @ 80 Gyr.	QC/QA
TEMPORARY PAVEMENT	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", IL-9.5, N70, 2" HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70, 8"	4% @ 70 Gyr. 4% @ 70 Gyr.	QC/QA QC/QA
FILLING EXISTING RUMBLE STRIPS	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", IL-9.5, N70, 2"	4% @ 70 Gyr.	QC/QA
QUALITY MANAGEMENT PROGRAM (QMP) DESIGNATION: QUALITY CONTROL/QUALITY ASSURANCE (QC/QA) QUALITY CONTROL FOR PERFORMANCE (QCP)			

FILLING EXISTING SHOULDER RUMBLE STRIP

EASTBOUND	WESTBOUND
FROM STA 576+00 TO STA 581+00 (LT)	FROM STA 115+50 TO STA 119+25 (LT)
FROM STA 600+70 TO STA 604+00 (LT)	FROM STA 120+25 TO STA 122+25 (LT)
FROM STA 606+00 TO STA 609+00 (LT)	FROM STA 130+25 TO STA 134+50 (LT)
FROM STA 620+25 TO STA 632+75 (LT)	FROM STA 138+00 TO STA 152+25 (LT)
FROM STA 639+50 TO STA 645+25 (LT)	FROM STA 101+00 TO STA 109+00 (RT)
FROM STA 646+50 TO STA 648+25 (LT)	FROM STA 120+25 TO STA 133+25 (RT)
FROM STA 586+50 TO STA 591+00 (RT)	FROM STA 147+00 TO STA 148+25 (RT)
FROM STA 591+00 TO STA 598+71 (RT)	
FROM STA 605+50 TO STA 619+50 (RT)	
FROM STA 638+00 TO STA 647+00 (RT)	

NOTE:

1. THE UNIT WEIGHT USED TO CALCULATE ALL HOT-MIX ASPHALT SURFACE MIXTURES IS 112 LB/SY/IN.
2. THE "AC TYPE" FOR POLYMERIZED HMA MIXES SHALL BE "SBS/SBR 76-22", AND FOR NON-POLYMERIZED HMA THE "AC TYPE" SHALL BE "PG 64-22" UNLESS MODIFIED BY RECLAIMED MATERIALS SPECIFICATIONS.
3. PC CONCRETE TEMPORARY PAVEMENT SHALL CONSIST OF CLASS PV CONCRETE MEETING THE REQUIREMENTS OF ART.1020 OF THE STANDARD SPECIFICATIONS. TEMPORARY PCC PAVEMENT DOES NOT REQUIRE DOWEL BARS. PC CONCRETE TEMPORARY PAVEMENT SHALL HAVE A THICKNESS OF 8". ALL TEMPORARY PAVEMENT SHALL BE PROVIDED OVER SUBBASE GRANULAR, TYPE B 4".
4. LONGITUDINAL JOINT SEALANT SHALL BE PLACED OVER THE MILLED SURFACE.

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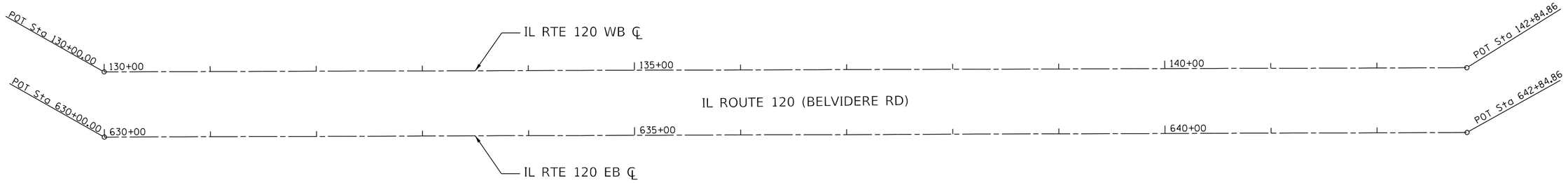
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STATE OF ILLINOIS
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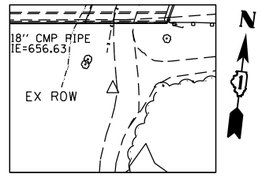
TYPICAL SECTIONS
ILLINOIS ROUTE 120 OVER DES PLAINES RIVER

SCALE: NONE | SHEET 2 OF 2 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0333	2021-071-BDR	LAKE	131	14
		CONTRACT NO. 62P09		
	ILLINOIS	FED. AID PROJECT		



△CP #1
CP #2



POINT #2949

STA. 636+76.36
N= 2068035.5120
E= 1090341.2680

POINT #2950

STA. 636+76.36
N= 2068035.4930
E= 1090341.2710

NOTES:

1. PROJECT LIMITS ARE FROM STA. 118+44 TO STA. 138+18 WESTBOUND IL 120 AND FROM STA. 618+44 TO STA. 638+06 EASTBOUND IL 120.

2. THE SURVEY LIMITS ARE FROM STA. 130+00 TO STA. 142+85 (WB) AND STA. 630+00 TO STA. 642+85 (EB). STATIONS AND OFFSETS BEYOND THIS LIMIT ARE APPROXIMATE.

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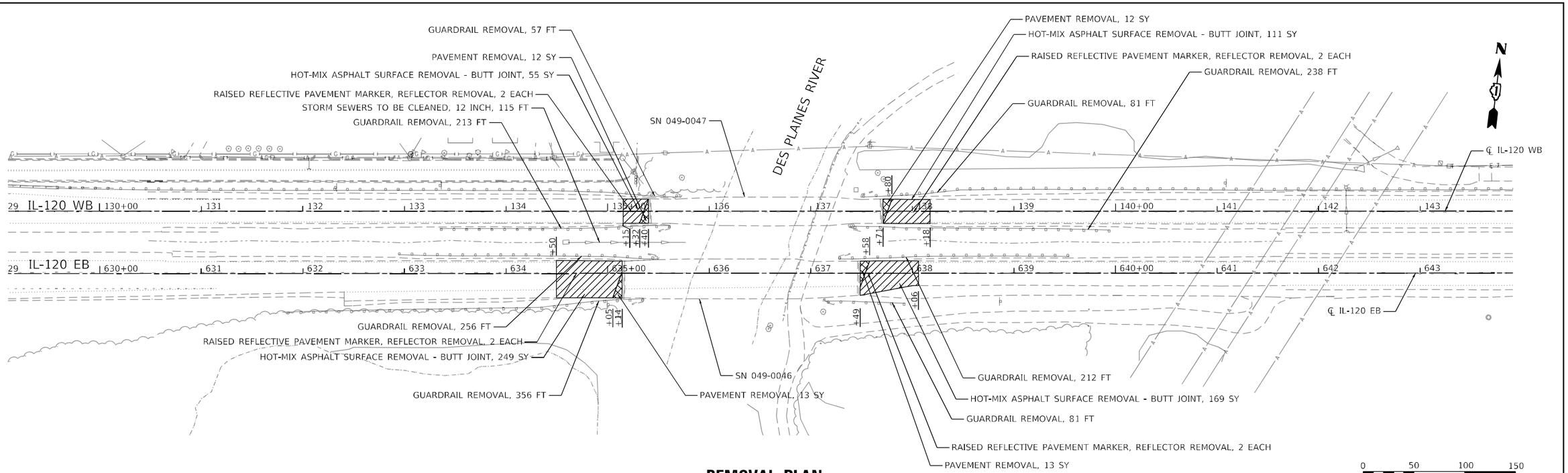
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ALIGNMENT, TIES, AND BENCHMARKS
ILLINIOIS ROUTE 120 OVER DES PLAINES RIVER

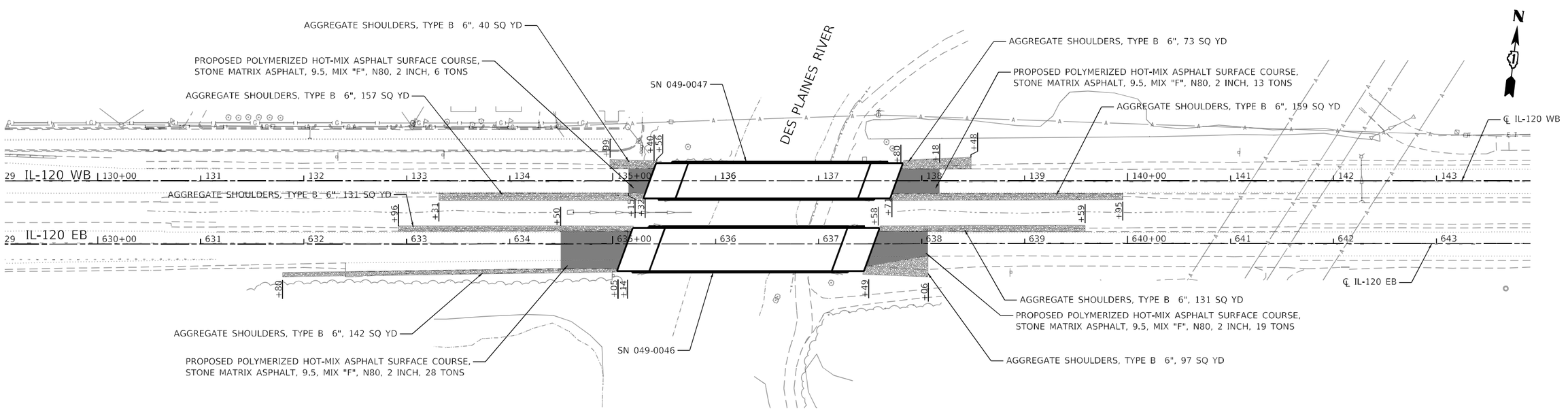
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0333	2021-071-BDR	LAKE	131	15
		CONTRACT NO. 62P09		
	ILLINOIS FED. AID PROJECT			



REMOVAL PLAN

SN 049-0046 & SN 049-0047



PROPOSED PLAN

SN 049-0046 & SN 049-0047

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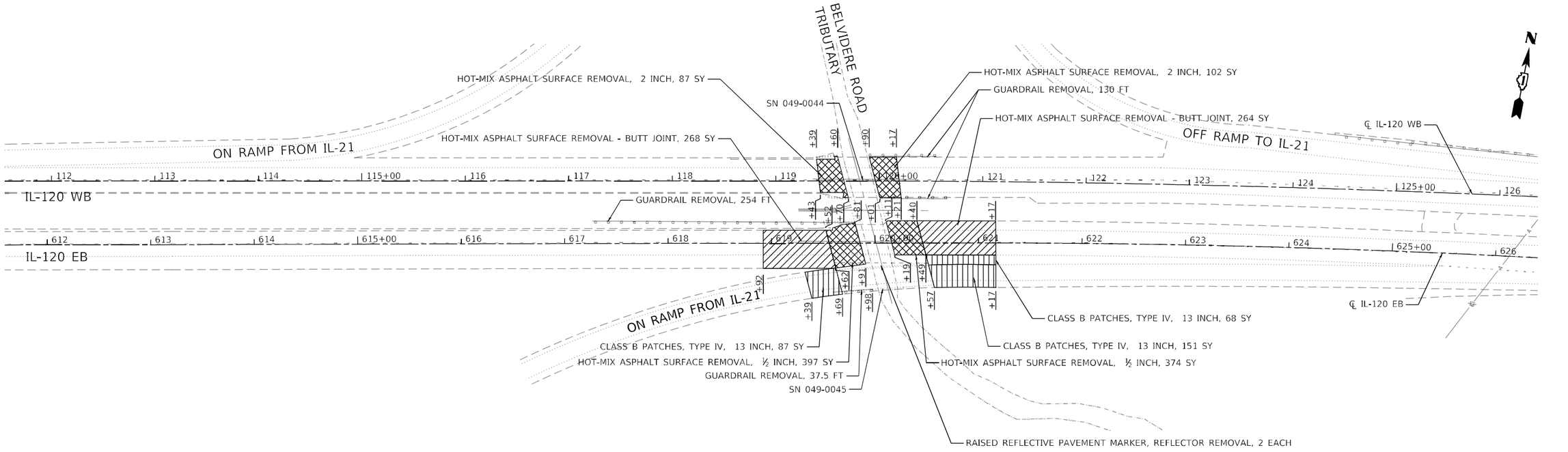
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PLOT DATE = 8/28/2023	DATE - 06/20/2023	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

REMOVAL AND PROPOSED PLAN
ILLINIOIS ROUTE 120 OVER DES PLAINES RIVER

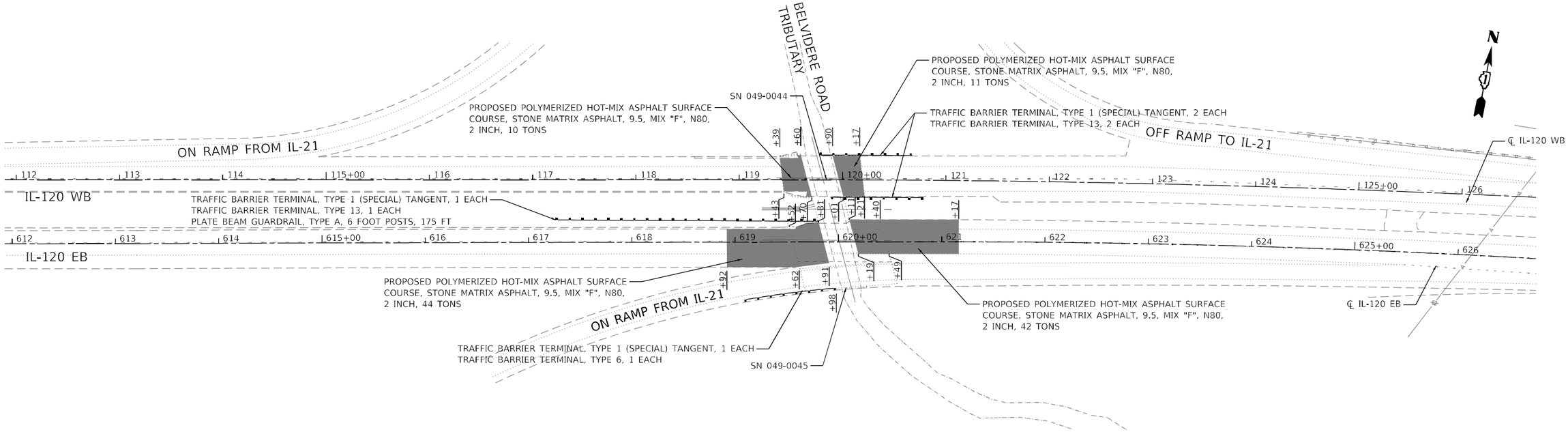
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0333	2021-071-BDR	LAKE	131	16
		CONTRACT NO. 62P09		
	ILLINOIS	FED. AID PROJECT		



REMOVAL PLAN

SN 049-0044 & SN 049-0045



PROPOSED PLAN

SN 049-0044 & SN 049-0045

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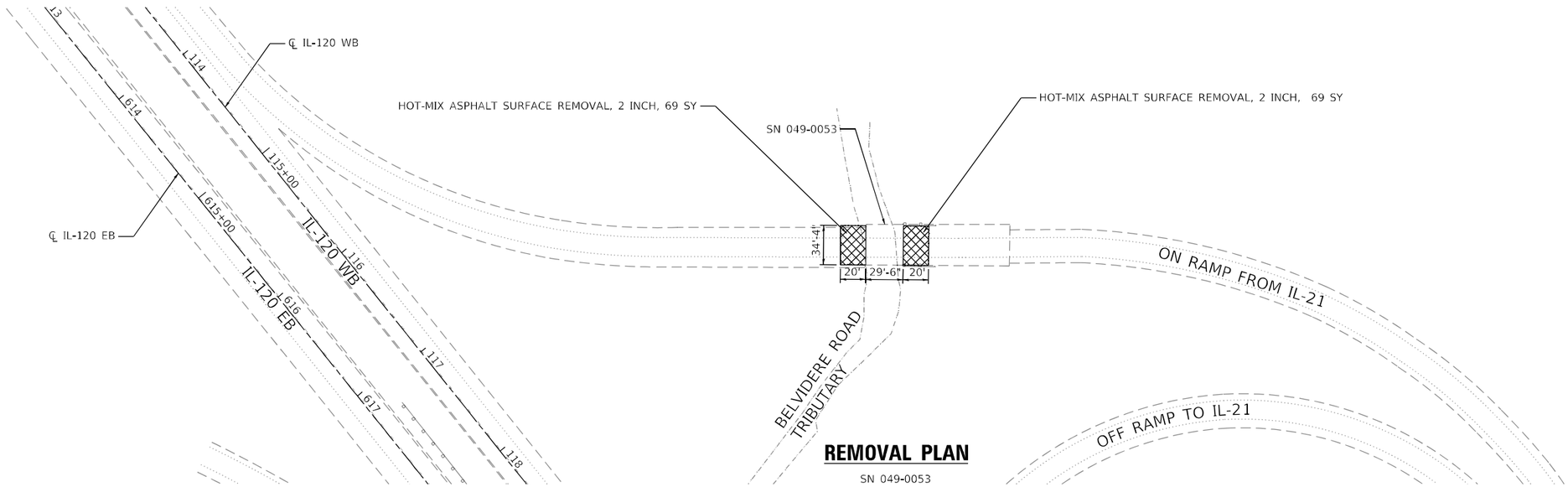
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

REMOVAL AND PROPOSED PLAN
ILLINIOIS ROUTE 120 OVER DES PLAINES RIVER

SCALE: 1"=50' | SHEET 2 OF 3 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0333	2021-071-BDR	LAKE	131	17
		CONTRACT NO. 62P09		
	ILLINOIS	FED. AID PROJECT		



REMOVAL PLAN

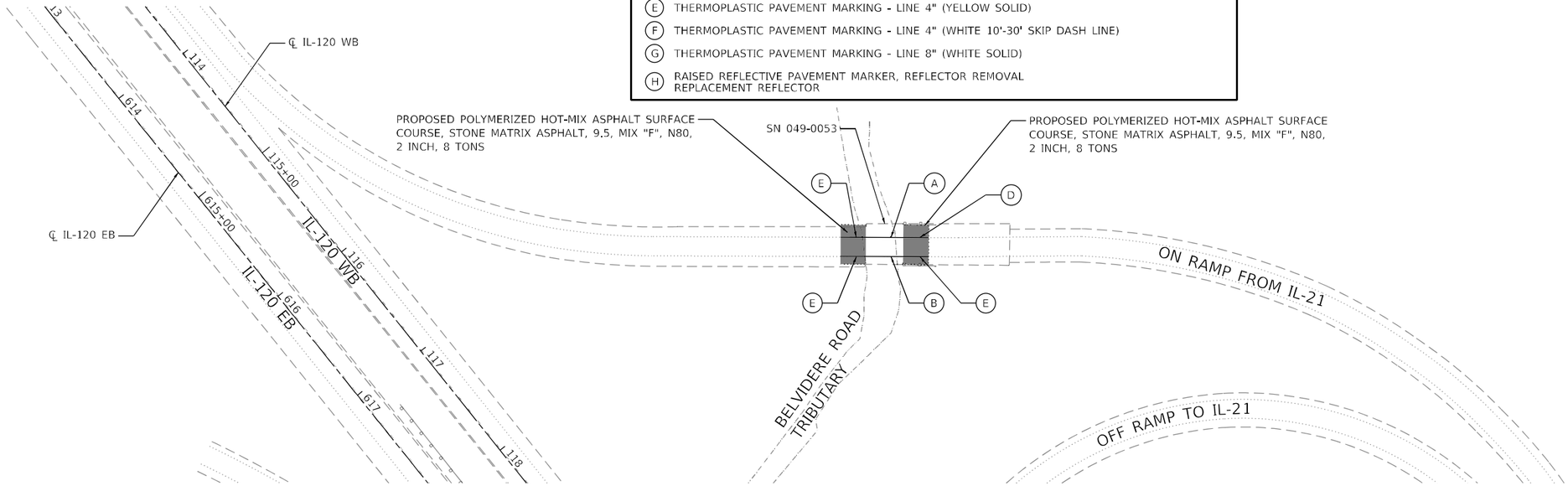
SN 049-0053

0 50 100 150

SCALE IN FEET

PAVEMENT MARKING LEGEND

- (A) MODIFIED URETHANE PAVEMENT MARKING - LINE 4" (WHITE SOLID)
- (B) MODIFIED URETHANE PAVEMENT MARKING - LINE 4" (YELLOW SOLID)
- (C) PREFORMED PLASTIC PAVEMENT MARKING - TYPE D - LINE 7" (1.5" BLACK, 4" WHITE, 1.5" BLACK) GROOVING FOR RECESSED PAVEMENT MARKING 8"
- (D) THERMOPLASTIC PAVEMENT MARKING - LINE 4" (WHITE SOLID)
- (E) THERMOPLASTIC PAVEMENT MARKING - LINE 4" (YELLOW SOLID)
- (F) THERMOPLASTIC PAVEMENT MARKING - LINE 4" (WHITE 10'-30' SKIP DASH LINE)
- (G) THERMOPLASTIC PAVEMENT MARKING - LINE 8" (WHITE SOLID)
- (H) RAISED REFLECTIVE PAVEMENT MARKER, REFLECTOR REMOVAL REPLACEMENT REFLECTOR



PROPOSED PLAN

SN 049-0053

0 50 100 150

SCALE IN FEET

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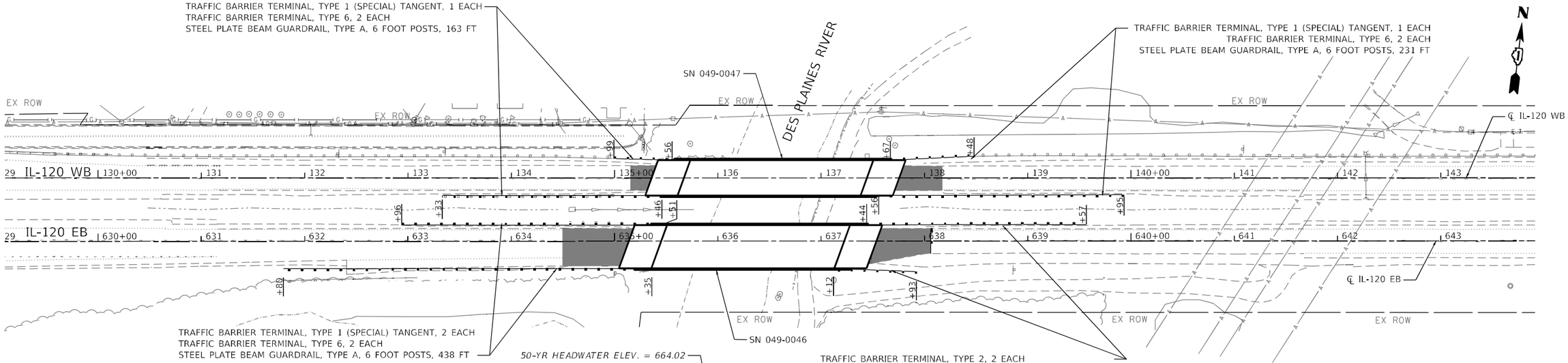
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PLOT DATE = 9/22/2023	DATE - 06/20/2023	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

REMOVAL AND PROPOSED PLAN
ILLINIOIS ROUTE 120 OVER DES PLAINES RIVER

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0333	2021-071-BDR	LAKE	131	18
		CONTRACT NO. 62P09		
	ILLINOIS FED. AID PROJECT			



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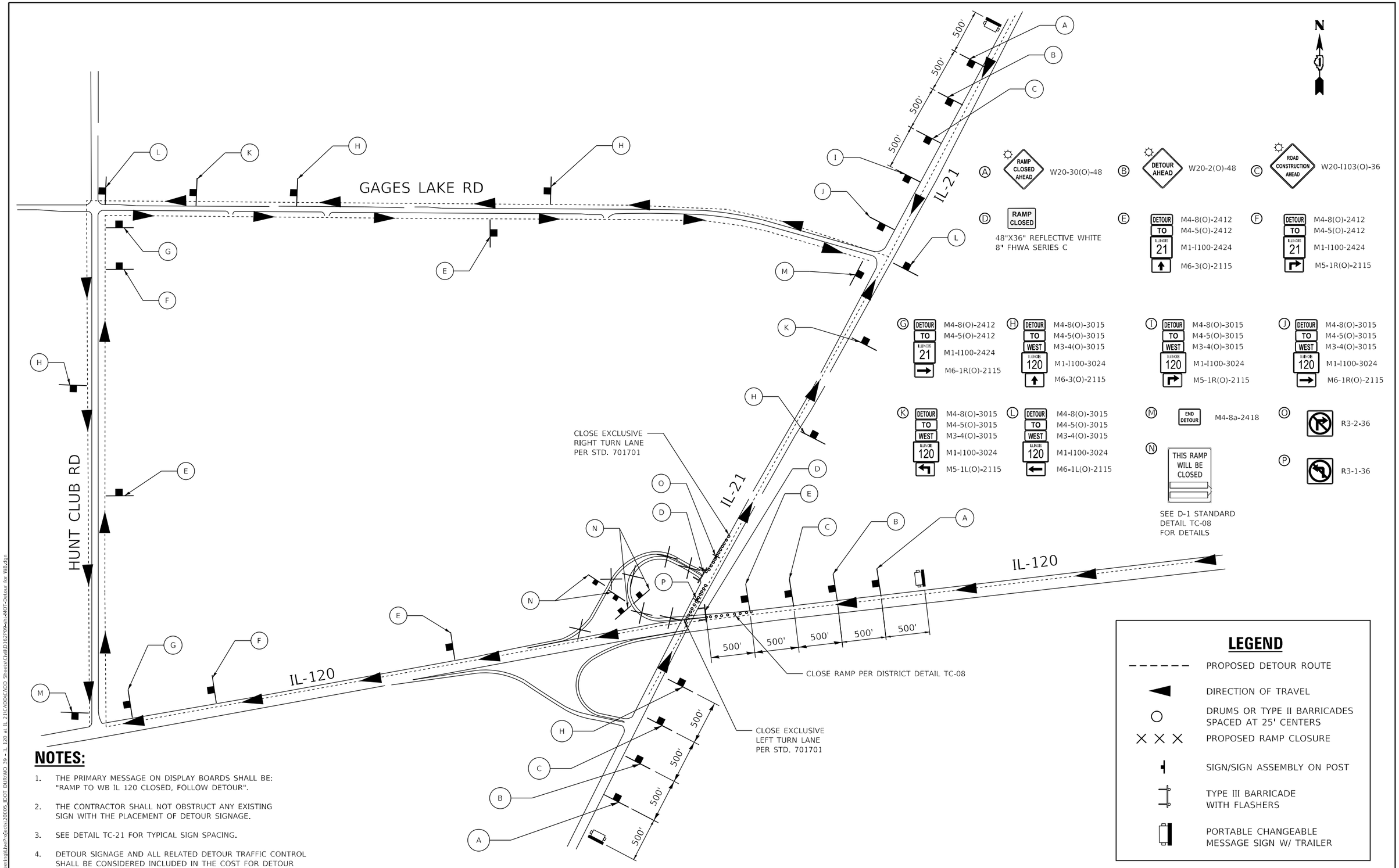
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	PLOT DATE = 8/28/2023	DATE - 04/21/2023	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PLAN AND PROFILE
ILIINIOIS ROUTE 120 OVER DES PLAINES RIVER

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
IL-120		LAKE	131	19
		CONTRACT NO. 62P09		
		ILLINOIS	FED. AID PROJECT NHPP-ENG7(288)	



NOTES:

1. THE PRIMARY MESSAGE ON DISPLAY BOARDS SHALL BE: "RAMP TO WB IL 120 CLOSED, FOLLOW DETOUR".
2. THE CONTRACTOR SHALL NOT OBSTRUCT ANY EXISTING SIGN WITH THE PLACEMENT OF DETOUR SIGNAGE.
3. SEE DETAIL TC-21 FOR TYPICAL SIGN SPACING.
4. DETOUR SIGNAGE AND ALL RELATED DETOUR TRAFFIC CONTROL SHALL BE CONSIDERED INCLUDED IN THE COST FOR DETOUR SIGNING EXCEPT AS OTHERWISE NOTED.

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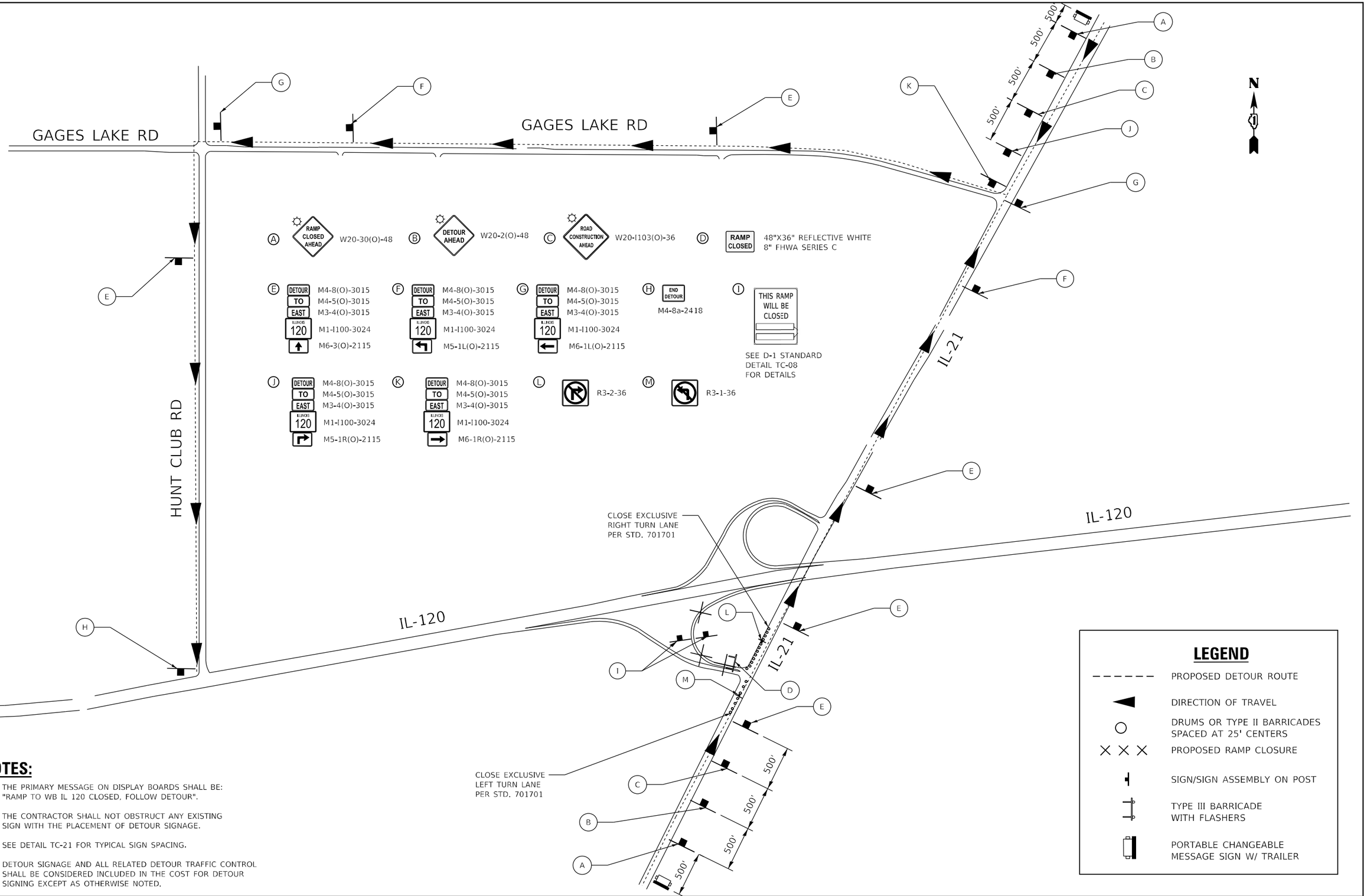
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DETOUR PLAN – WB IL 120 TO IL 21
ILLINIOIS ROUTE 120 OVER DES PLAINES RIVER

SCALE: NONE | SHEET 1 OF 2 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0333	2021-071-BDR	LAKE	131	20
		CONTRACT NO. 62P09		
	ILLINOIS	FED. AID PROJECT		



NOTES:

1. THE PRIMARY MESSAGE ON DISPLAY BOARDS SHALL BE: "RAMP TO WB IL 120 CLOSED, FOLLOW DETOUR".
2. THE CONTRACTOR SHALL NOT OBSTRUCT ANY EXISTING SIGN WITH THE PLACEMENT OF DETOUR SIGNAGE.
3. SEE DETAIL TC-21 FOR TYPICAL SIGN SPACING.
4. DETOUR SIGNAGE AND ALL RELATED DETOUR TRAFFIC CONTROL SHALL BE CONSIDERED INCLUDED IN THE COST FOR DETOUR SIGNING EXCEPT AS OTHERWISE NOTED.

LEGEND

- PROPOSED DETOUR ROUTE
- DIRECTION OF TRAVEL
- DRUMS OR TYPE II BARRICADES SPACED AT 25' CENTERS
- PROPOSED RAMP CLOSURE
- SIGN/SIGN ASSEMBLY ON POST
- TYPE III BARRICADE WITH FLASHERS
- PORTABLE CHANGEABLE MESSAGE SIGN W/ TRAILER

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DETOUR PLAN – EB IL 120 TO IL 21
ILLINIOIS ROUTE 120 OVER DES PLAINES RIVER

SCALE: NONE | SHEET 2 OF 2 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0333	2021-071-BDR	LAKE	131	21
		CONTRACT NO. 62P09		
		ILLINOIS	FED. AID PROJECT	

GENERAL NOTES

1. THE TRAFFIC CONTROL DEPICTED HEREIN IS THE MINIMUM REQUIREMENT. ADDITIONAL TRAFFIC CONTROL DEVICES AS SPECIFIED IN THE HIGHWAY STANDARDS AS SHOWN ON THE INDEX OF SHEETS AND THE SPECIAL PROVISIONS SHALL BE PLACED BY THE CONTRACTOR TO THE SATISFACTION OF THE ENGINEER. ALL TRAFFIC CONTROL DEVICES SHALL BE CONSIDERED INCLUDED IN THE COST OF TRAFFIC CONTROL AND PROTECTION, (SPECIAL) UNLESS OTHERWISE INDICATED WITHIN THESE GENERAL NOTES, PLANS OR SPECIAL PROVISIONS.

2. TRAFFIC CONDITIONS, ACCIDENTS, AND OTHER UNFORESEEN EMERGENCY CONDITIONS MAY REQUIRE THE ENGINEER TO RESTRICT, MODIFY OR REMOVE LANE CLOSURES OR CHANNELIZATION SHOWN IN THE PLANS. THE CONTRACTOR SHALL PROMPTLY RESPOND AT THE TIME OF NOTIFICATION BY THE ENGINEER FOR THE MAINTENANCE OF TRAFFIC CONTROL DEVICES.

3. DRUMS OR TYPE II BARRICADES SHALL BE PROVIDED AS SHOWN IN THE PLANS AND SPACED 100 FEET CENTER TO CENTER IN TANGEENTS, 50 FEET CENTER TO CENTER IN TAPERS, AND 15 FEET CENTER TO CENTER IN RADII IN THE CONSTRUCTION WORK ZONE.

4. ALL TEMPORARY PAVEMENT MARKINGS SHOWING DETERIORATION AFTER 7 DAYS OF SERVICE SHALL BE REPLACED BY THE CONTRACTOR AS DIRECTED BY THE ENGINEER. ALL MARKINGS THAT REQUIRE REPLACEMENT PRIOR TO 7 DAYS OF SERVICE OR REPLACEMENT AFTER THE INITIAL REPLACEMENT SHALL BE REPLACED BY THE CONTRACTOR AT HIS EXPENSE.

5. A MINIMUM OF FOURTEEN (14) DAYS IN ADVANCE OF THE BRIDGE CONSTRUCTION AND ALL SUBSEQUENT STAGE CHANGES ON IL ROUTE 120, THE CONTRACTOR SHALL PLACE ONE (1) PORTABLE CHANGEABLE MESSAGE SIGN AT EACH END OF THE PROJECT ALONG IL ROUTE 120 AS DIRECTED AND AT A LOCATION DESIGNATED BY THE ENGINEER TO INFORM MOTORISTS OF THE UPCOMING CULVERT CONSTRUCTION / STAGE CHANGE. THE MESSAGE SHALL BE APPROVED BY THE ENGINEER. THIS WORK IS TO BE PAID FOR AT THE CONTRACT UNIT PRICE PER CALENDAR DAY FOR CHANGEABLE MESSAGE SIGN.

6. WORK ZONE SPEED LIMIT SHALL BE 40 MPH ON IL ROUTE 120.

7. THE CONTRACTOR SHALL BE REQUIRED TO MAINTAIN TRAFFIC IN ACCORDANCE WITH THE TRAFFIC CONTROL PLANS, SPECIAL PROVISIONS, APPLICABLE STATE STANDARDS, AND AS DIRECTED BY THE ENGINEER. ANY CHANGES TO THE TRAFFIC CONTROL SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO IMPLEMENTING ANY CHANGES.

8. THE CONTRACTOR SHALL FURNISH, INSTALL, MAINTAIN, AND REMOVE ALL SIGNS AND SIGN SUPPORTS REQUIRED FOR TRAFFIC CONTROL.

9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING LABOR, SIGNS, AND TRAFFIC CONTROL DEVICES NECESSARY FOR THE MAINTENANCE OF TRAFFIC UNLESS OTHERWISE NOTED IN THE SPECIAL PROVISIONS.

10. ALL EXISTING SIGNS THAT CONFLICT WITH THE TRAFFIC CONTROL PLAN SHALL BE COVERED OR REMOVED IN ACCORDANCE WITH ARTICLE 107.25 OF THE STANDARD SPECIFICATIONS.

11. THE ENGINEER SHALL BE INFORMED 48 HOURS IN ADVANCE OF ANY PROPOSED CHANGE TO THE SUGGESTED STAGE OF CONSTRUCTION AND TRAFFIC CONTROL PLAN.

12. THE CONTRACTOR SHALL PROVIDE ADEQUATE TEMPORARY DRAINAGE AND EROSION CONTROL PROTECTION DURING ALL PHASES OF CONSTRUCTION.

13. THE CONTRACTOR SHALL MAINTAIN A MINIMUM OF ONE 11' THRU-LANE FOR BOTH EASTBOUND AND WESTBOUND TRAFFIC UNLESS OTHERWISE SPECIFIED.

14. THE CONTRACTOR SHALL CONTACT THE DISTRICT ONE TRAFFIC CONTROL SUPERVISOR KALPANA KANNAN-HOSADURGA, AT KALPANA.KANNAN-HOSADURGA@ILLINOIS.GOV A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING OF WORK.

15. THE CONTRACTOR SHALL BE REQUIRED TO REMOVE ALL EXISTING PAVEMENT MARKINGS WHICH CONFLICT WITH THE DESIGNATED TRAFFIC CONTROL AS SHOWN IN PLANS.

16. IMMEDIATELY AFTER THE COMPLETION OF CONSTRUCTION, THE CONTRACTOR SHALL RESTORE ALL PERMANENT PAVEMENT MARKINGS, SIGNS, AND OTHER TRAFFIC CONTROL DEVICES THAT WERE COVERED, IF THEY WERE REMOVED, DAMAGED, OR OTHERWISE AFFECTED BY CONSTRUCTION. THE COST TO REPAIR ANY DAMAGES WILL BE BORNE BY THE CONTRACTOR AND NOT THE RESPONSIBILITY OF THE DEPARTMENT.

17. ALL TEMPORARY PAVEMENT MARKINGS WILL BE PAVEMENT MARKING TAPE, TYPE IV, UNLESS OTHERWISE NOTED.

18. VEHICULAR ACCESS TO LOCAL PROPERTIES SHALL BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION.

19. THE CONTRACTOR SHALL RECORD EXISTING GRADES AND ELEVATIONS OF THE DRAINAGE DITCH WHERE TEMPORARY PAVEMENT WILL BE PLACED. ONCE ALL CONSTRUCTION IS COMPLETE, THE CONTRACTOR SHALL RESTORE DITCHES TO THE EXISTING GRADE AND ELEVATIONS. THIS WORK SHALL BE PAID FOR UNDER THE PAY ITEM, "TOPSOIL EXCAVATION AND REPLACEMENT".

20. PIPE UNDERDRAINS SHALL BE INSTALLED ACCORDING TO SECTION 601 OF THE STANDARD SPECIFICATIONS AND STATE HIGHWAY STANDARD 601001. TOP OF PIPE UNDERDRAINS SHALL BE PLACED MINIMUM 6" BELOW THE AGGREGATE SUBGRADE IMPROVEMENT LAYER. THE COST OF MAKING PIPE UNDERDRAINS CONNECTIONS TO DRAINAGE STRUCTURES SHALL BE INCLUDED IN THE COST OF THE PIPE UNDERDRAINS.

21. CHANGEABLE MESSAGE SIGNS SHALL BE INSTALLED TWO WEEKS PRIOR TO ALL TRAFFIC STAGE CHANGES ON EACH APPROACH OF THE EFFECTED ROADWAY TO WARN MOTORISTS OF THE UPCOMING EVENT. THE SIGN MESSAGES SHALL BE REVISED TWO WEEKS THEREAFTER WITH MESSAGES WARNING TRAFFIC OF POTENTIAL TRAFFIC DELAYS, QUEUING AND/ OR WITH MESSAGES NOTIFYING TRAFFIC TO USE ALTERNATE ROUTES. THE SIGN LOCATIONS AND MESSAGES SHALL BE DETERMINED BY THE ENGINEER.

EARTHWORK SCHEDULE

	START STATION	END STATION	FILL VOLUME *[EMBANKMENT]* (CY)	15% SHRINKAGE VOLUME (CY)	CUT VOLUME *[EMBANKMENT, 4" SUBBASE]* (CY)
EAST CROSS-OVER	643+08	648+95	532.66	612.56	820.00
WEST CROSS-OVER	602+41	607+80	355.11	408.37	605.00
TOTAL			887.76	1021.00	1425.00

INTERSECTION FOR TEMPORARY TRAFFIC SIGNAL TIMING

TEMPORARY TRAFFIC SIGNAL TIMING WILL BE UTILIZED TO ADJUST EXISTING TRAFFIC SIGNAL TIMING THROUGHOUT THE DETOUR TO ACCOMMODATE ADDITIONAL TRAFFIC VOLUME. THE FOLLOWING INTERSECTION WILL INCORPORATE TEMPORARY TRAFFIC SIGNAL TIMING:

1. IL RTE 120 & HUNT CLUB RD.
2. GAGE LAKE RD. & HUNT CLUB RD.
3. GAGE LAKE RD. & IL RTE 21
4. IL RTE 120 & IL RTE 21 (WEST)
5. IL RTE 120 & IL RTE 21 (EAST)

21. DROP-OFFS ADJACENT TO THE TRAVEL LANE SHALL BE KEPT TO A MINIMUM. PROTECTION OF THE DROP-OFFS SHALL BE ACCORDING TO THE IDOT BUREAU OF SAFETY PROGRAMS AND ENGINEERING, SAFETY ENGINEERING POLICY MEMORANDUM 4-21. DROP-OFFS GREATER THAN OR EQUAL TO 12" WILL NOT BE ALLOWED AT LOCATIONS WHERE THE DROP-OFF IS LOCATED WITHIN 8 FT OF THE EDGE OF THE TRAVEL LANE. THE CONTRACT SHALL BE RESPONSIBLE FOR ENSURING THAT THE DROP-OFF AREAS MEET THE OFFSET, HEIGHT, AND DURATION REQUIREMENTS TO USE BARRICADES AT THE END OF EACH WORKDAY. THIS MAY REQUIRE THE CONTRACTOR TO REPLACE OR PLACE SUFFICIENT MATERIAL IN THE EXCAVATION TO REDUCE THE DROP-OFF TO BE COMPLIANT WITH THE REQUIREMENTS FOR USE OF BARRICADES. NO ADDITIONAL COMPENSATION SHALL BE ALLOWED TO COMPLY WITH THIS REQUIREMENT.

22. ALL TRAFFIC CONTROL DEVICES SHALL BE IN NEW OR LIKE NEW CONDITION AS DESCRIBED IN THE TRAFFIC CONTROL FIELD MANUAL.

SUGGESTED SEQUENCE OF CONSTRUCTION AND MAINTENANCE OF TRAFFIC

THE FOLLOWING SEQUENCE OF CONSTRUCTION AND MAINTENANCE OF TRAFFIC IS SUGGESTED. VARIATIONS MAY BE MADE WITH THE APPROVAL OF THE ENGINEER. FOR EACH STAGE OF CONSTRUCTION, PROVIDE TRAFFIC CONTROL AS SHOWN ON THE MAINTENANCE OF TRAFFIC PLANS. COORDINATE INSTALLATION OF TRAFFIC CONTROL DEVICES WITH THE EXISTING TRAFFIC PATTERNS AT THE ENDS OF THE PROJECT ALONG IL ROUTE 120 AND IMPACTED CROSS STREETS. THE IMPROVEMENTS WILL BE CONSTRUCTED USING LANE CLOSURES AND CROSSOVERS PER THE PROJECT MAINTENANCE OF TRAFFIC PLANS DISTRICT ONE STANDARDS TC-08, TC-09, TC-10, TC-11, TC-13, TC-14, TC-16, TC-21, AND TC-22, AND HIGHWAY STANDARDS 701006, 701101, 701411, 701421, 701422, 701426, 701451, 701901, AND 704001.

PRESTAGE

1. UTILIZE STATE HIGHWAY STANDARD 701422 TO INSTALL TEMPORARY PAVEMENT AND TEMPORARY DRAINAGE ON IL 120.

STAGE 1

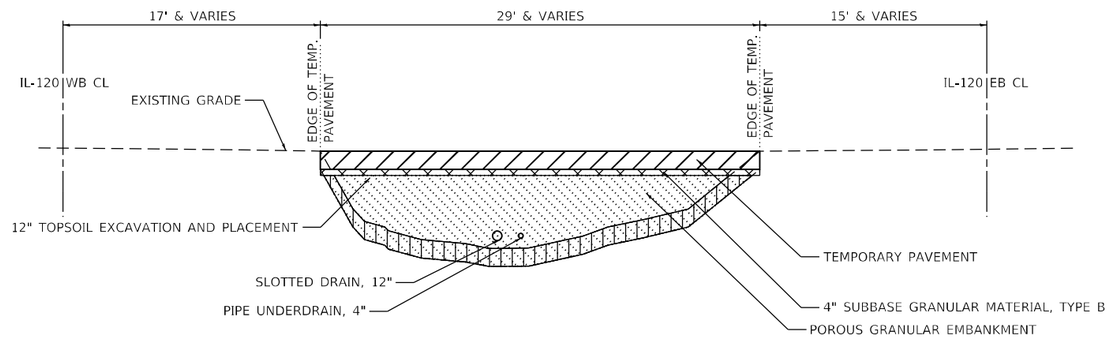
1. INSTALL ADVANCE WARNING SIGNS AND ARROW BOARDS AS SHOWN ON THE PLANS AND AS DIRECTED BY THE ENGINEER.
2. ESTABLISH DETOUR FOR IL 120 EASTBOUND ON RAMP FROM IL 21 AS SHOWN IN THE PLANS.
3. UTILIZE STATE HIGHWAY STANDARDS 701101 AND 701426 TO REMOVE CONFLICTING PERMANENT PAVEMENT MARKINGS AND RAISED PAVEMENT MARKER REFLECTORS, FILLING EXISTING SHOULDER RUMBLE STRIPS, INSTALL TEMPORARY PAVEMENT MARKINGS AS DETAILED IN THE TRAFFIC CONTROL PLAN.
4. INSTALL TRAFFIC CONTROL DEVICES AS SHOWN IN THE MOT PLANS FOR EASTBOUND CROSSOVER TO THE WESTBOUND ROADWAY.
5. COMPLETE THE EASTBOUND REPAIRS AND CONSTRUCTION ON SN 049-0045 AND SN 049-0046. SN 049-0045 WILL BE SCARIFIED AND OVERLAID. THE REPAIRS ON SN 049-0046 INCLUDE REPLACING THE BRIDGE DECKS AND PARAPETS, REPAIR AND REPLACEMENT OF BACKWALLS ABOVE THE ABUTMENTS, AND REPLACEMENT OF EXPANSION JOINTS, EXPANSION BEARINGS, AND APPROACH SLABS. ADDITIONAL REPAIRS INCLUDE MILLING AND OVERLAY OF ROADWAY, GUARDRAIL REPLACEMENT AND REGRADING.

STAGE 2

1. INSTALL ADVANCE WARNING SIGNS AND ARROW BOARDS AS SHOWN ON THE PLANS AND AS DIRECTED BY THE ENGINEER.
2. ESTABLISH DETOUR FOR IL 120 WESTBOUND ON AND OFF RAMPS TO AND FROM IL 21 AS SHOWN IN THE PLANS.
3. UTILIZE STATE HIGHWAY STANDARD 701101 AND 701426 TO REMOVE CONFLICTING PERMANENT PAVEMENT MARKINGS AND RAISED PAVEMENT MARKER REFLECTORS, FILLING EXISTING SHOULDER RUMBLE STRIPS, INSTALL TEMPORARY PAVEMENT MARKINGS AS DETAILED IN THE TRAFFIC CONTROL PLAN.
4. INSTALL TRAFFIC CONTROL DEVICES AS SHOWN IN THE MOT PLANS FOR WESTBOUND CROSSOVER TO THE EASTBOUND ROADWAY.
5. COMPLETE THE WESTBOUND REPAIRS AND CONSTRUCTION ON SN 049-0044, SN 049-0047, AND SN 049-0053. SN 049-0044 AND SN 049-0053 WILL BE SCARIFIED AND OVERLAID. THE REPAIRS ON SN 049-0047 INCLUDE REPLACING THE BRIDGE DECKS AND PARAPETS, REPAIR AND REPLACEMENT OF BACKWALLS ABOVE THE ABUTMENTS, AND REPLACEMENT OF EXPANSION JOINTS, EXPANSION BEARINGS, AND APPROACH SLABS. ADDITIONAL REPAIRS INCLUDE MILLING AND OVERLAY OF ROADWAY, GUARDRAIL REPLACEMENT AND REGRADING.
6. INSTALL 16" SHOULDER RUMBLE STRIPS ALONG THE SHOULDER OF THE ROADWAY, AS SHOWN ON PLANS.
7. REMOVE TEMPORARY PAVEMENT AND EMBANKMENT.
8. REMOVE TEMPORARY TRAFFIC CONTROL DEVICES AND EROSION CONTROL DEVICES.
9. INSTALL PERMANENT PAVEMENT MARKINGS AND LANDSCAPING (SEE LANDSCAPING) USING HIGHWAY STANDARD 701101 AND 701426.

TEMPORARY PAVEMENT TYPICAL SECTION

STA. 602+41 TO STA. 607+80
STA. 643+08 TO STA. 649+95



MODEL: Default
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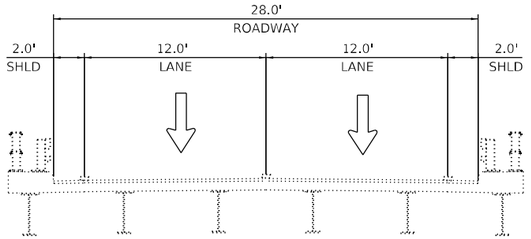
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC PLAN – GENERAL NOTES
ILLINOIS ROUTE 120 OVER DES PLAINES RIVER

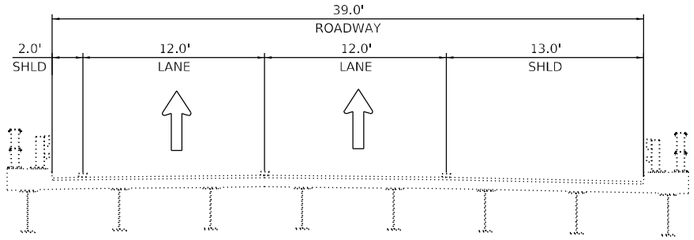
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0333	2021-071-BDR	LAKE	131	22
		CONTRACT NO. 62P09		
	ILLINOIS	FED. AID PROJECT		

EXISTING TYPICAL SECTION
ILLINOIS ROUTE 120

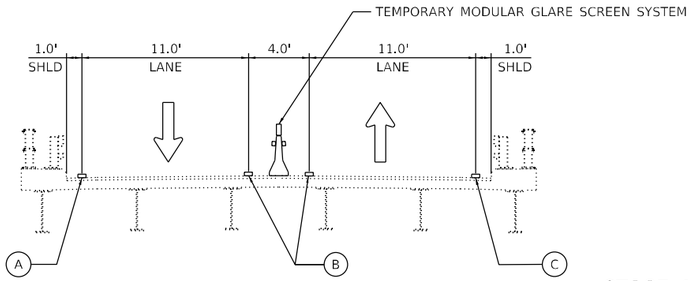


WESTBOUND
(S.N. 049-0047)

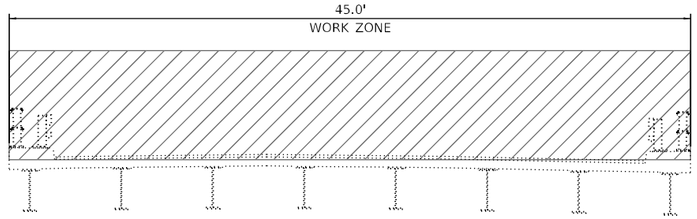


EASTBOUND
(S.N. 049-0046)

STAGE 1 TYPICAL SECTION
ILLINOIS ROUTE 120

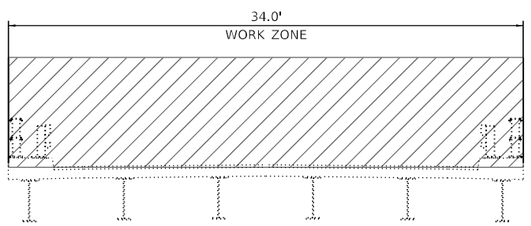


WESTBOUND
(S.N. 049-0047)

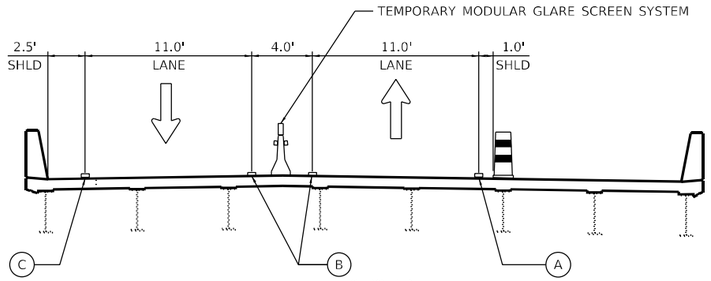


EASTBOUND
(S.N. 049-0046)

STAGE 2 TYPICAL SECTION
ILLINOIS ROUTE 120

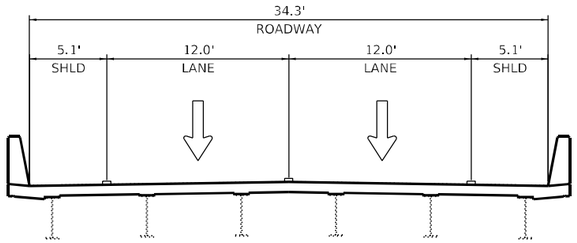


WESTBOUND
(S.N. 049-0047)

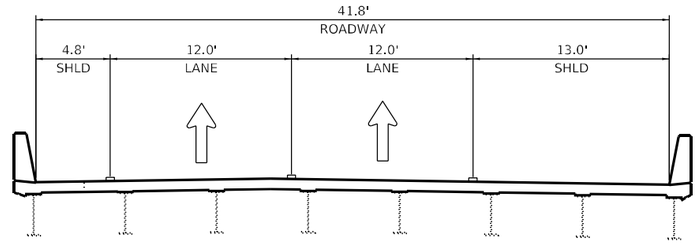


EASTBOUND
(S.N. 049-0046)

PROPOSED TYPICAL SECTION
ILLINOIS ROUTE 120



WESTBOUND
(S.N. 049-0047)



EASTBOUND
(S.N. 049-0046)

LEGEND

- TEMPORARY PAVEMENT MARKINGS
- WORK AREA
- TEMPORARY CONCRETE BARRIER WITH TYPE C AMBER REFELCTORS PER STDS. 704001 AND 782006
- DRUMS
- DIRECTION OF TRAFFIC
- (A) 4 INCH, WHITE SOLID
- (B) 4 INCH, YELLOW SOLID
- (C) 5 INCH, WHITE SOLID

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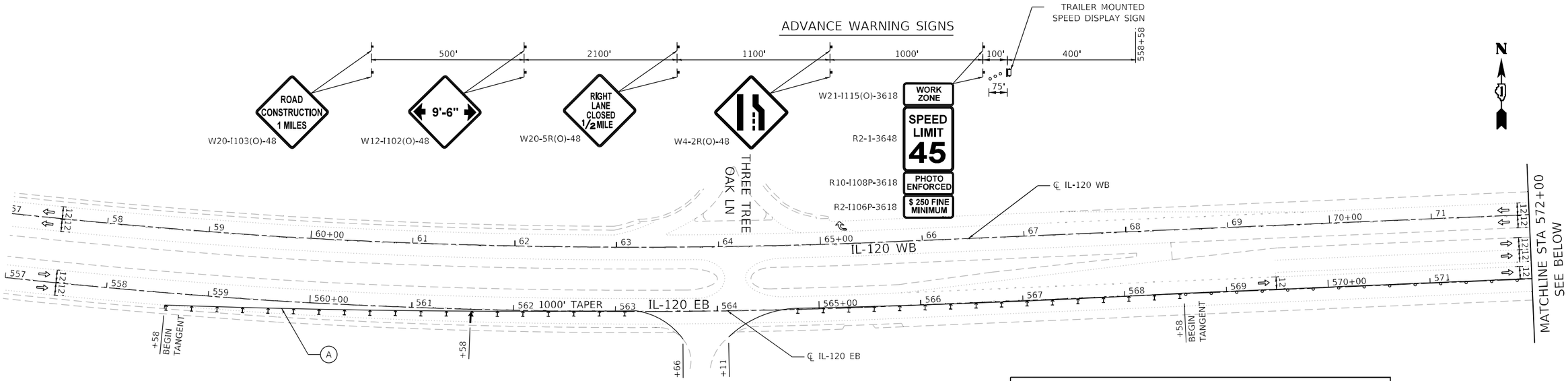
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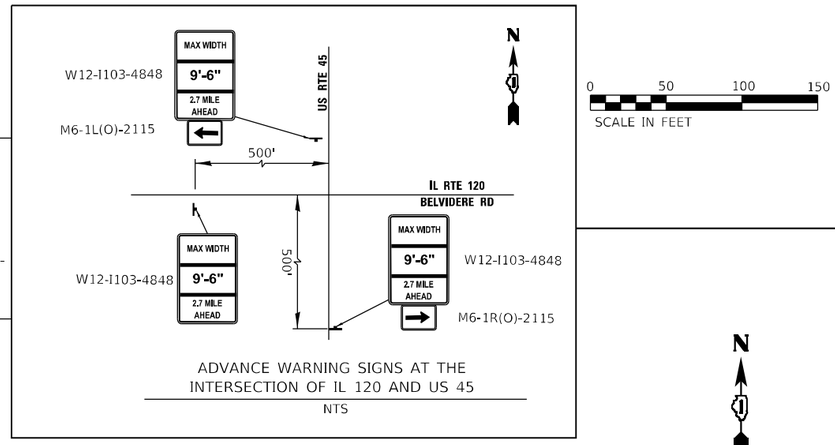
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC PLAN – TYPICAL SECTIONS
ILLINIOIS ROUTE 120 OVER DES PLAINES RIVER

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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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		CONTRACT NO. 62P09		
	ILLINOIS	FED. AID PROJECT		



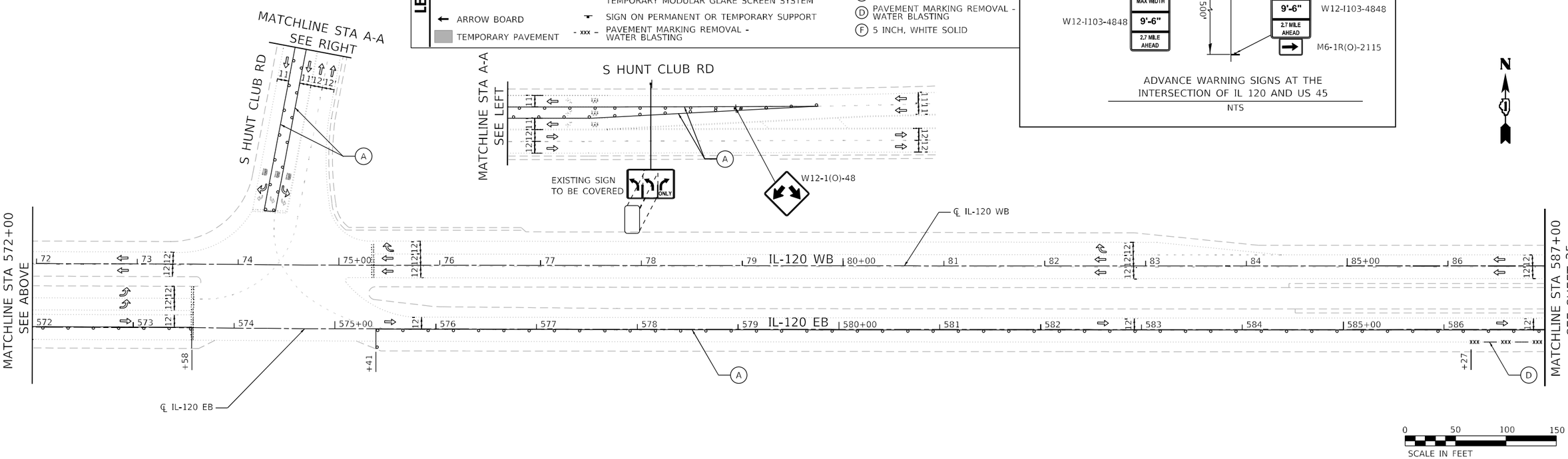


LEGEND

- WORK AREA
- FLOW OF TRAFFIC
- TYPE III BARRICADE
- ARROW BOARD
- TEMPORARY PAVEMENT
- DRUM OR TYPE II BARRICADE @ 100' C-C IN TANGENTS, 50' C-C IN TAPERS, AND 15' C-C IN RADII
- DIRECTIONAL INDICATOR BARRICADE W/STEADY BURN LIGHT @ 50' C-C
- TEMPORARY CONCRETE BARRIER W/BARRIER WALL REFLECTOR, TYPE C AND TEMPORARY MODULAR GLARE SCREEN SYSTEM
- SIGN ON PERMANENT OR TEMPORARY SUPPORT
- xxx PAVEMENT MARKING REMOVAL - WATER BLASTING

TEMPORARY PAVEMENT MARKING-TYPE IV TAPE:

- (A) 4 INCH, WHITE SOLID
- (B) 4 INCH, YELLOW SOLID
- (C) 4 INCH, 2'-6' WHITE SKIP-DASH
- (D) PAVEMENT MARKING REMOVAL - WATER BLASTING
- (F) 5 INCH, WHITE SOLID



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Accurate GROUP, INC.

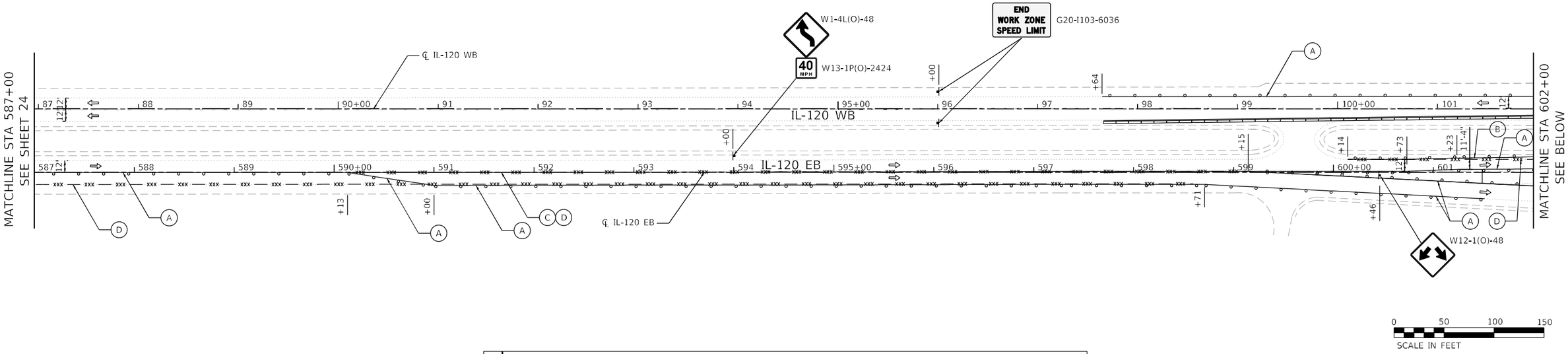
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC PLAN – STAGE I
ILLINIOIS ROUTE 120 OVER DES PLAINES RIVER

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

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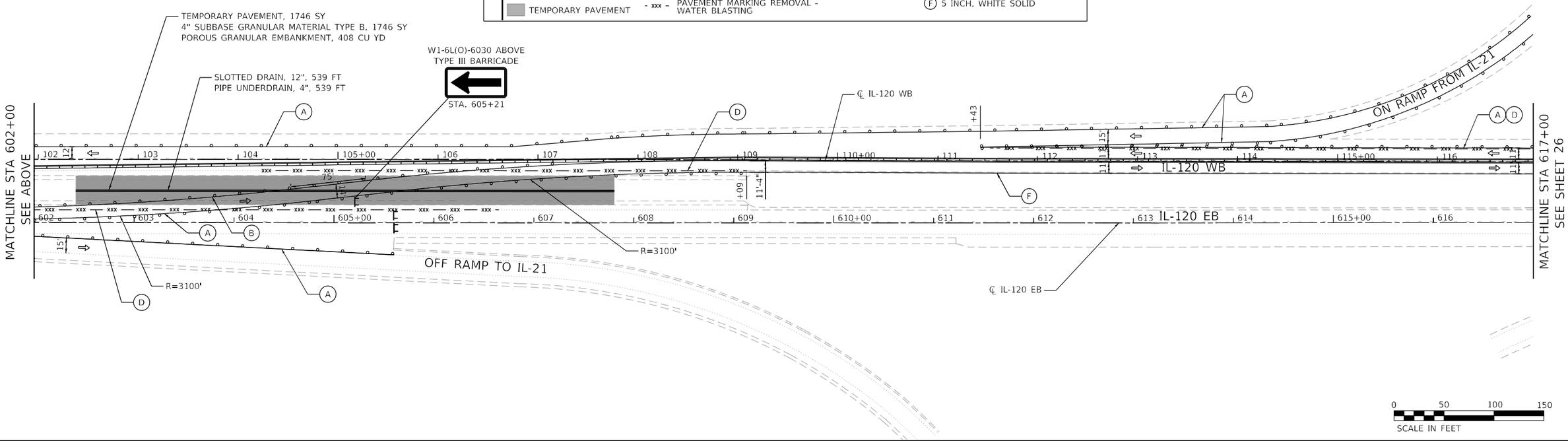


LEGEND

- WORK AREA
- FLOW OF TRAFFIC
- TYPE III BARRICADE
- ARROW BOARD
- TEMPORARY PAVEMENT
- DRUM OR TYPE II BARRICADE @ 100' C-C IN TANGENTS, 50' C-C IN TAPERS, AND 15' C-C IN RADII
- DIRECTIONAL INDICATOR BARRICADE W/STEADY BURN LIGHT @ 50' C-C
- TEMPORARY CONCRETE BARRIER W/BARRIER WALL REFLECTOR, TYPE C AND TEMPORARY MODULAR GLARE SCREEN SYSTEM
- SIGN ON PERMANENT OR TEMPORARY SUPPORT
- xxx – PAVEMENT MARKING REMOVAL - WATER BLASTING

TEMPORARY PAVEMENT MARKING-TYPE IV TAPE:

- (A) 4 INCH, WHITE SOLID
- (B) 4 INCH, YELLOW SOLID
- (C) 4 INCH, 2'-6' WHITE SKIP-DASH
- (D) PAVEMENT MARKING REMOVAL - WATER BLASTING
- (F) 5 INCH, WHITE SOLID



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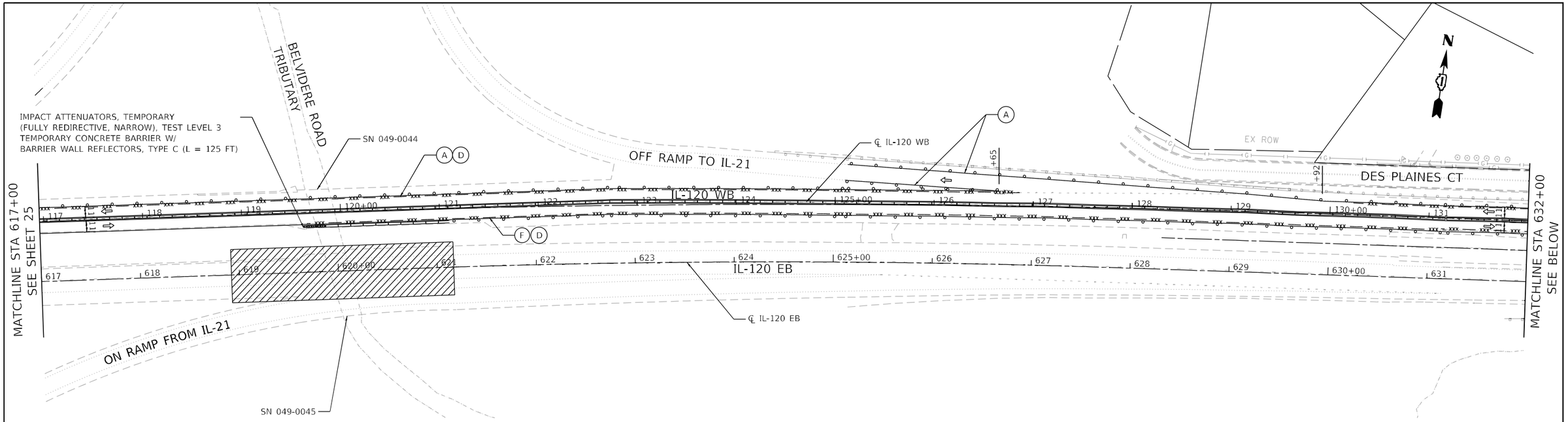
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC PLAN – STAGE I
ILLINIOIS ROUTE 120 OVER DES PLAINES RIVER

SCALE: 1"=50' | SHEET 2 OF 5 SHEETS | STA. | TO STA.

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	ILLINOIS FED. AID PROJECT			

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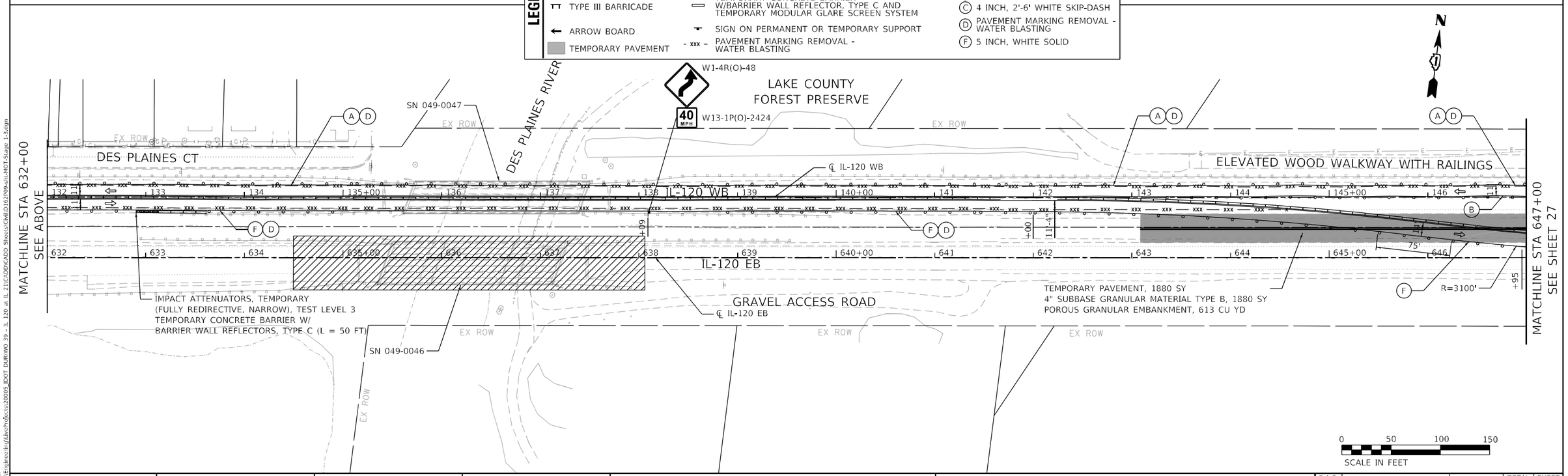
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LEGEND

- WORK AREA
- FLOW OF TRAFFIC
- TYPE III BARRICADE
- ARROW BOARD
- TEMPORARY PAVEMENT
- DRUM OR TYPE II BARRICADE @ 100' C-C IN TANGENTS, 50' C-C IN TAPERS, AND 15' C-C IN RADII
- DIRECTIONAL INDICATOR BARRICADE W/STEADY BURN LIGHT @ 50' C-C
- TEMPORARY CONCRETE BARRIER W/BARRIER WALL REFLECTOR, TYPE C AND TEMPORARY MODULAR GLARE SCREEN SYSTEM
- SIGN ON PERMANENT OR TEMPORARY SUPPORT
- - xxx - PAVEMENT MARKING REMOVAL - WATER BLASTING

TEMPORARY PAVEMENT MARKING-TYPE IV TAPE:

- (A) 4 INCH, WHITE SOLID
- (B) 4 INCH, YELLOW SOLID
- (C) 4 INCH, 2'-6' WHITE SKIP-DASH
- (D) PAVEMENT MARKING REMOVAL - WATER BLASTING
- (F) 5 INCH, WHITE SOLID



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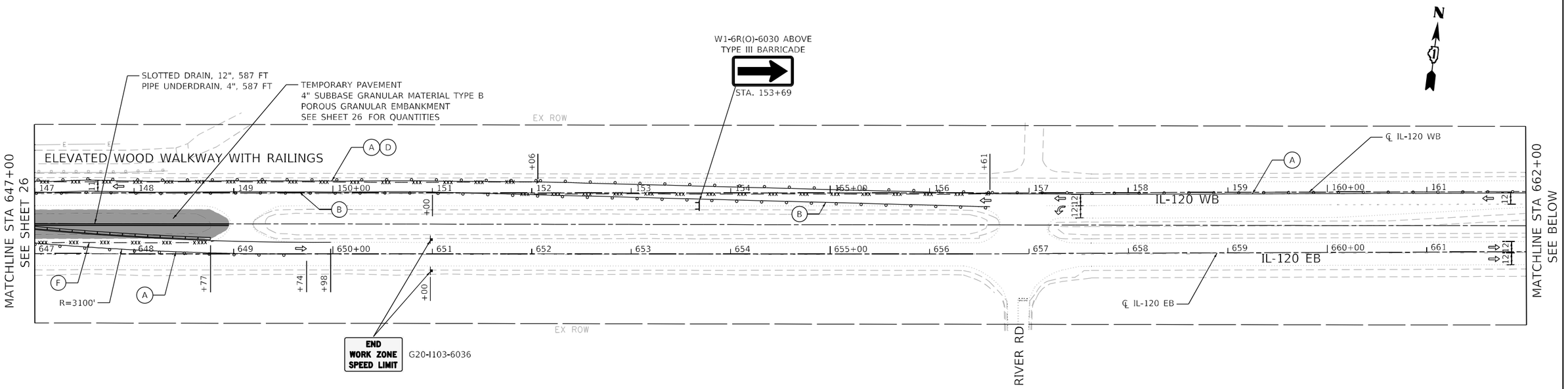
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC PLAN – STAGE I
ILLINIOIS ROUTE 120 OVER DES PLAINES RIVER

SCALE: 1"=50' | SHEET 3 OF 5 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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	ILLINOIS FED. AID PROJECT			

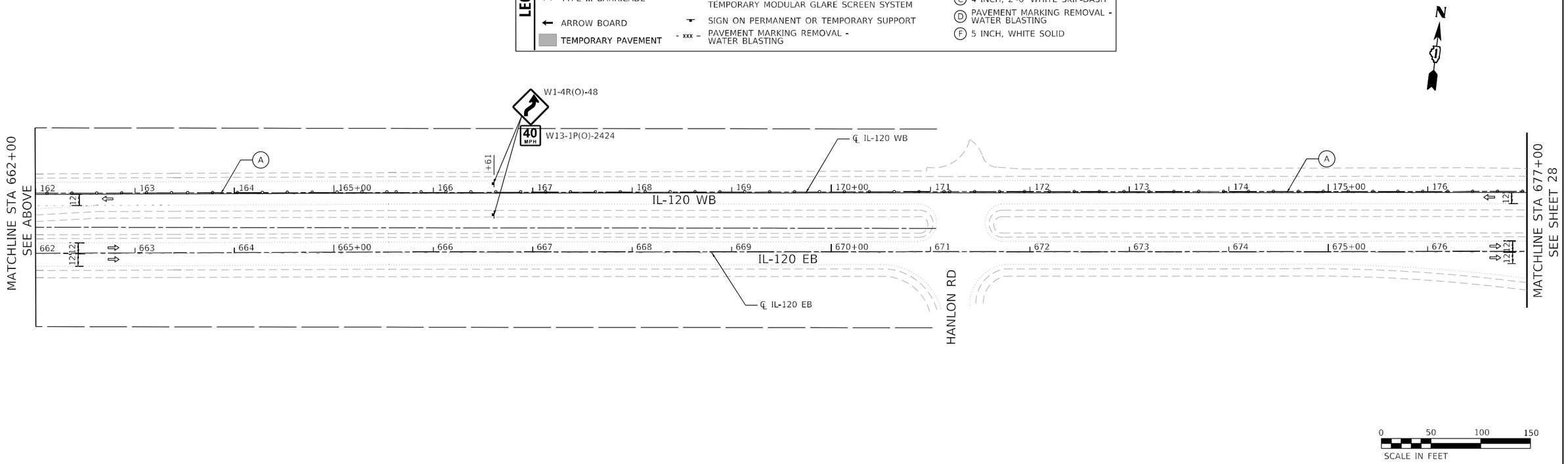


LEGEND

- WORK AREA
- FLOW OF TRAFFIC
- TYPE III BARRICADE
- ARROW BOARD
- TEMPORARY PAVEMENT
- DRUM OR TYPE II BARRICADE @ 100' C-C IN TANGENTS, 50' C-C IN TAPERS, AND 15' C-C IN RADII
- DIRECTIONAL INDICATOR BARRICADE W/STEADY BURN LIGHT @ 50' C-C
- TEMPORARY CONCRETE BARRIER W/BARRIER WALL REFLECTOR, TYPE C AND TEMPORARY MODULAR GLARE SCREEN SYSTEM
- SIGN ON PERMANENT OR TEMPORARY SUPPORT
- xxx - PAVEMENT MARKING REMOVAL - WATER BLASTING

TEMPORARY PAVEMENT MARKING-TYPE IV TAPE:

- (A) 4 INCH, WHITE SOLID
- (B) 4 INCH, YELLOW SOLID
- (C) 4 INCH, 2'-6' WHITE SKIP-DASH
- (D) PAVEMENT MARKING REMOVAL - WATER BLASTING
- (F) 5 INCH, WHITE SOLID



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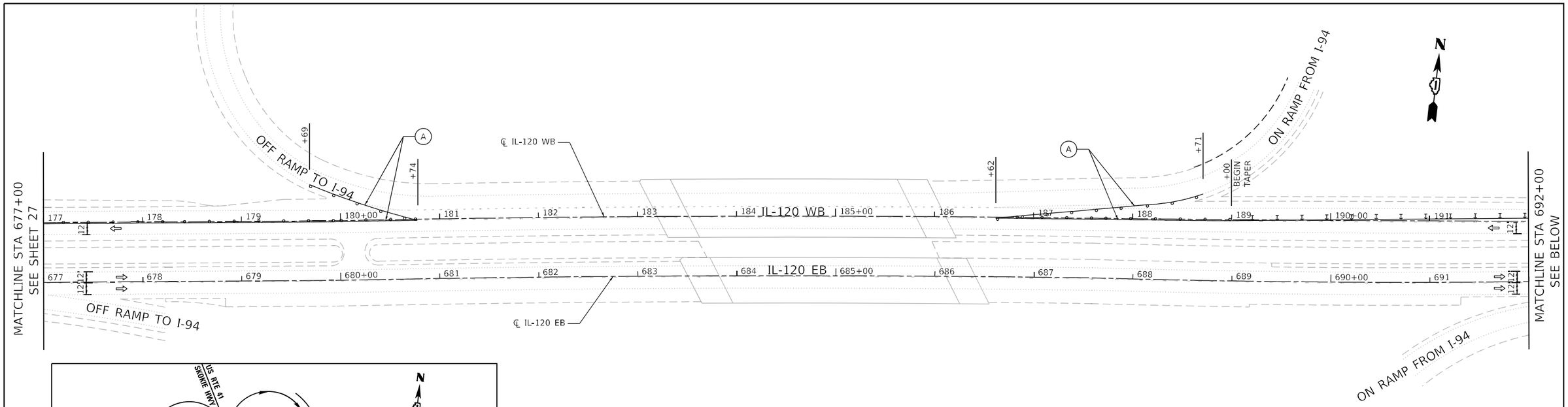
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

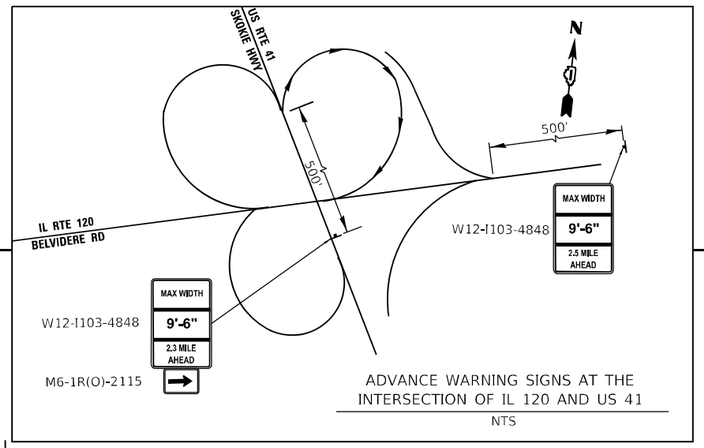
MAINTENANCE OF TRAFFIC PLAN – STAGE I
ILLINIOIS ROUTE 120 OVER DES PLAINES RIVER

SCALE: 1"=50' | SHEET 4 OF 5 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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	ILLINOIS FED. AID PROJECT			

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ADVANCE WARNING SIGNS AT THE INTERSECTION OF IL 120 AND US 41

NTS

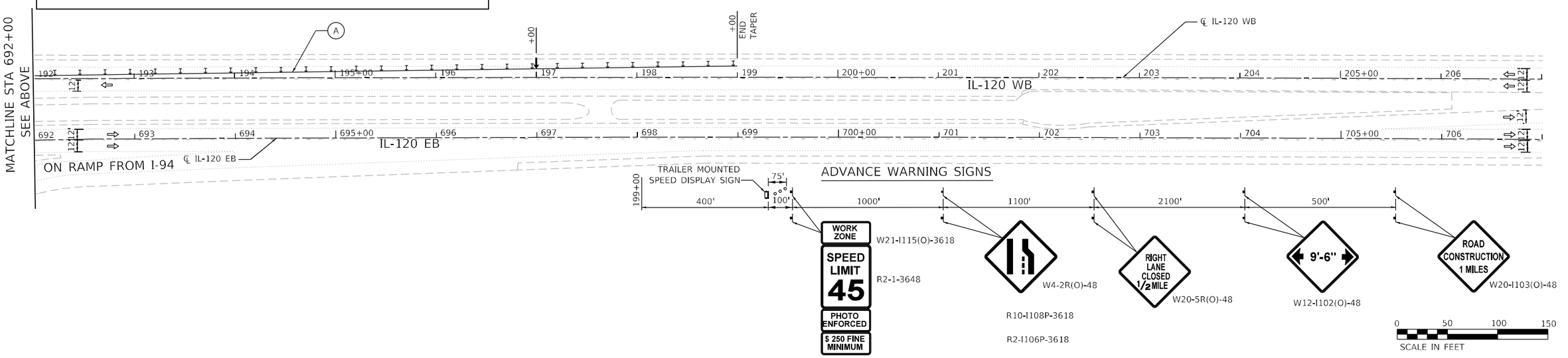
LEGEND

- WORK AREA
- FLOW OF TRAFFIC
- TYPE III BARRICADE
- ARROW BOARD
- TEMPORARY PAVEMENT
- DRUM OR TYPE II BARRICADE @ 100' C-C IN TANGENTS, 50' C-C IN TAPERS, AND 15' C-C IN RADII
- DIRECTIONAL INDICATOR BARRICADE W/STEADY BURN LIGHT @ 50' C-C
- TEMPORARY CONCRETE BARRIER W/BARRIER WALL REFLECTOR, TYPE C AND TEMPORARY MODULAR GLARE SCREEN SYSTEM
- SIGN ON PERMANENT OR TEMPORARY SUPPORT
- -xxx- PAVEMENT MARKING REMOVAL - WATER BLASTING

TEMPORARY PAVEMENT MARKING-TYPE IV TAPE:

- (A) 4 INCH, WHITE SOLID
- (B) 4 INCH, YELLOW SOLID
- (C) 4 INCH, 2'-6' WHITE SKIP-DASH
- (D) PAVEMENT MARKING REMOVAL - WATER BLASTING
- (F) 5 INCH, WHITE SOLID

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SCALE IN FEET



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Accurate GROUP, INC.

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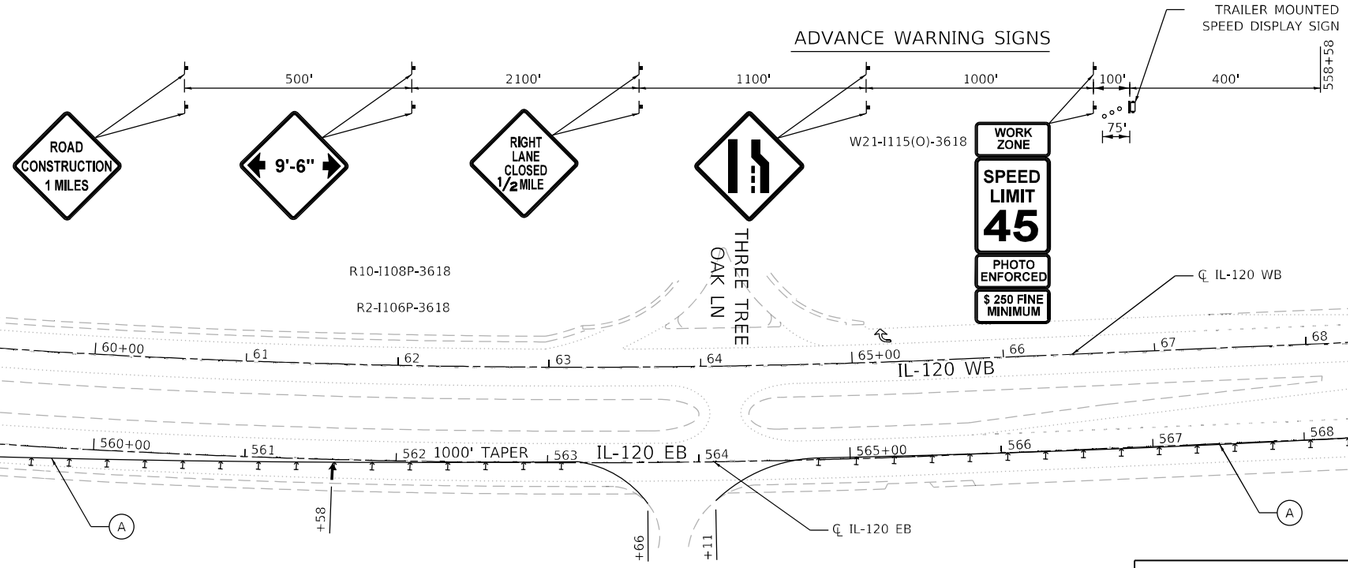
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

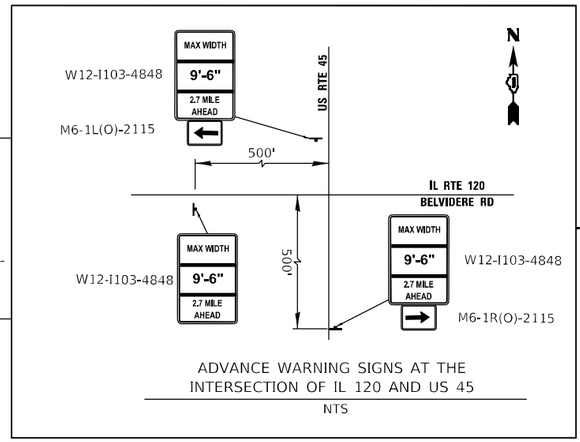
MAINTENANCE OF TRAFFIC PLAN – STAGE I
ILLINIOIS ROUTE 120 OVER DES PLAINES RIVER

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0333	2021-071-BDR	LAKE	131	28
		CONTRACT NO. 62P09		
	ILLINOIS	FED. AID PROJECT		

ADVANCE WARNING SIGNS





ADVANCE WARNING SIGNS AT THE INTERSECTION OF IL 120 AND US 45

NTS

0 50 100 150

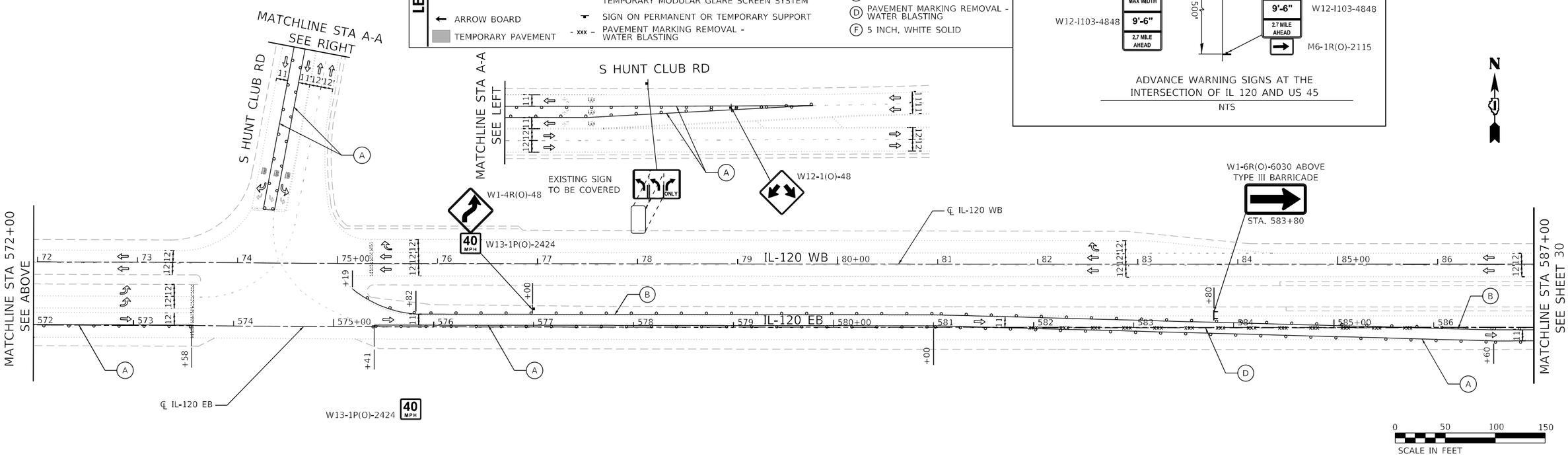
SCALE IN FEET

LEGEND

- WORK AREA
- FLOW OF TRAFFIC
- TYPE III BARRICADE
- ARROW BOARD
- TEMPORARY PAVEMENT
- DRUM OR TYPE II BARRICADE @ 100' C-C IN TANGENTS, 50' C-C IN TAPERS, AND 15' C-C IN RADII
- DIRECTIONAL INDICATOR BARRICADE W/STEADY BURN LIGHT @ 50' C-C
- TEMPORARY CONCRETE BARRIER W/BARRIER WALL REFLECTOR, TYPE C AND TEMPORARY MODULAR GLARE SCREEN SYSTEM
- SIGN ON PERMANENT OR TEMPORARY SUPPORT
- - xxx - PAVEMENT MARKING REMOVAL - WATER BLASTING

TEMPORARY PAVEMENT MARKING-TYPE IV TAPE:

- (A) 4 INCH, WHITE SOLID
- (B) 4 INCH, YELLOW SOLID
- (C) 4 INCH, 2'-6' WHITE SKIP-DASH
- (D) PAVEMENT MARKING REMOVAL - WATER BLASTING
- (F) 5 INCH, WHITE SOLID



0 50 100 150

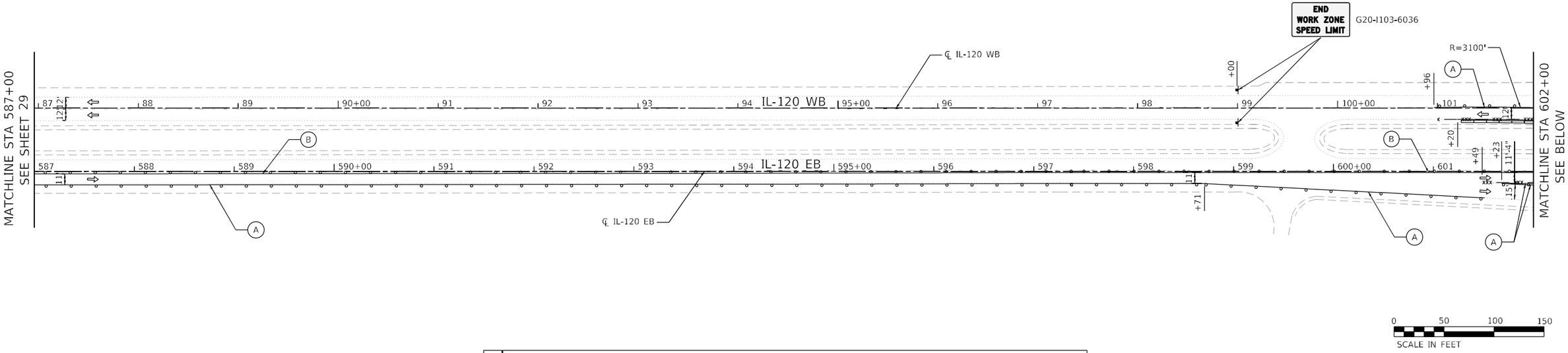
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Accurate GROUP, INC.

USER NAME = jdavis	DESIGNED - JJD	REVISED -	**STATE OF ILLINOIS**	**MAINTENANCE OF TRAFFIC PLAN – STAGE II**	
	DRAWN - MA	REVISED -	**DEPARTMENT OF TRANSPORTATION**	**ILLINOIS ROUTE 120 OVER DES PLAINES RIVER**	
PLOT SCALE = 100.0000 ' / in.	CHECKED - JJD	REVISED -		SCALE: 1"=50' SHEET 1 OF 5 SHEETS STA. TO STA.	
PLOT DATE = 8/28/2023	DATE - 06/20/2023	REVISED -			

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0333	2021-071-BDR	LAKE	131	29
		CONTRACT NO. 62P09		
	ILLINOIS	FED. AID PROJECT		

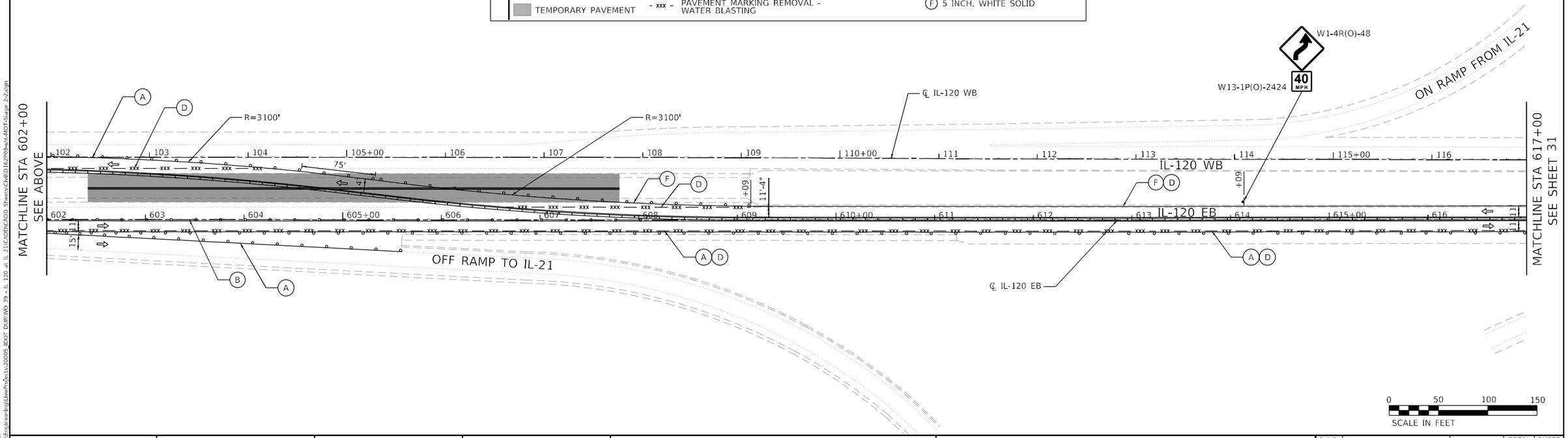


LEGEND

- WORK AREA
- FLOW OF TRAFFIC
- TYPE III BARRICADE
- ARROW BOARD
- TEMPORARY PAVEMENT
- DRUM OR TYPE II BARRICADE @ 100' C-C IN TANGENTS, 50' C-C IN TAPERS, AND 15' C-C IN RADII
- DIRECTIONAL INDICATOR BARRICADE W/STEADY BURN LIGHT @ 50' C-C
- TEMPORARY CONCRETE BARRIER W/BARRIER WALL REFLECTOR, TYPE C AND TEMPORARY MODULAR GLARE SCREEN SYSTEM
- SIGN ON PERMANENT OR TEMPORARY SUPPORT
- xxx – PAVEMENT MARKING REMOVAL - WATER BLASTING

TEMPORARY PAVEMENT MARKING-TYPE IV TAPE:

- (A) 4 INCH, WHITE SOLID
- (B) 4 INCH, YELLOW SOLID
- (C) 4 INCH, 2'-6' WHITE SKIP-DASH
- (D) PAVEMENT MARKING REMOVAL - WATER BLASTING
- (F) 5 INCH, WHITE SOLID



USER NAME = jdavis	DESIGNED - JJD	REVISED -	
	DRAWN - MA	REVISED -	
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PLOT DATE = 8/28/2023	DATE - 06/20/2023	REVISED -	

Accurate GROUP, INC.

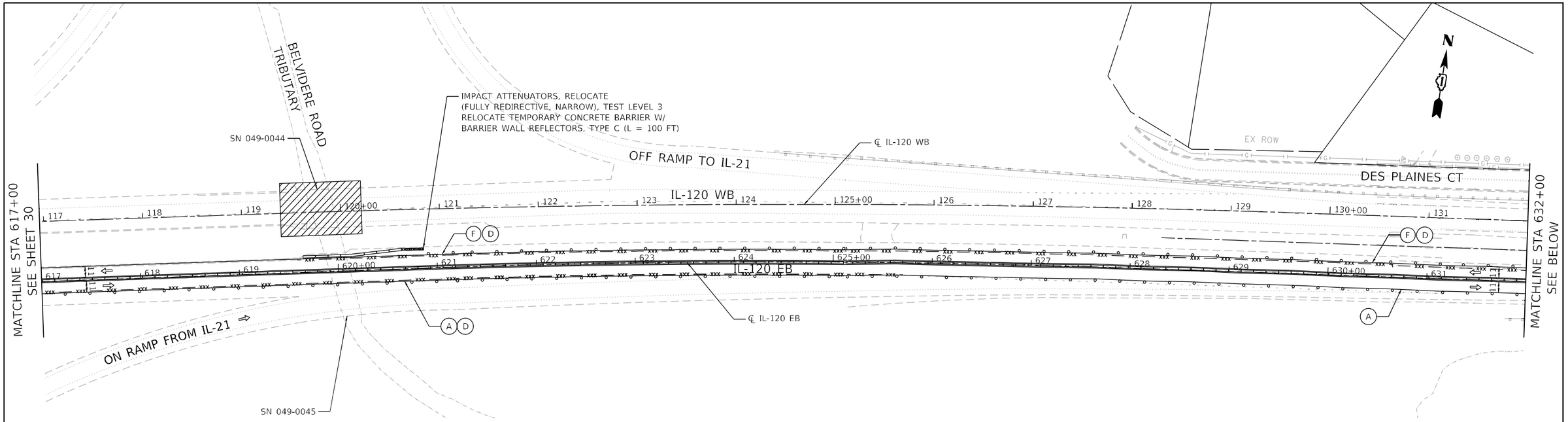
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC PLAN – STAGE II
ILLINIOIS ROUTE 120 OVER DES PLAINES RIVER

SCALE: 1"=50' | SHEET 2 OF 5 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0333	2021-071-BDR	LAKE	131	30
		CONTRACT NO. 62P09		
	ILLINOIS FED. AID PROJECT			

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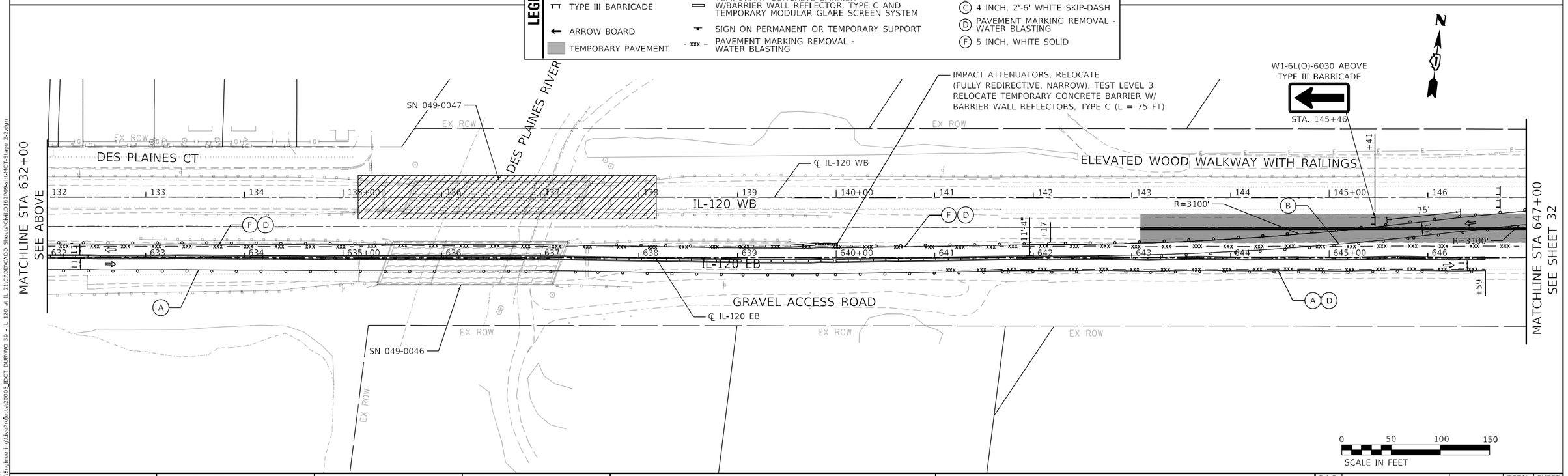


LEGEND

- WORK AREA
- FLOW OF TRAFFIC
- TYPE III BARRICADE
- ARROW BOARD
- TEMPORARY PAVEMENT
- DRUM OR TYPE II BARRICADE @ 100' C-C IN TANGENTS, 50' C-C IN TAPERS, AND 15' C-C IN RADII
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- TEMPORARY CONCRETE BARRIER W/BARRIER WALL REFLECTOR, TYPE C AND TEMPORARY MODULAR GLARE SCREEN SYSTEM
- SIGN ON PERMANENT OR TEMPORARY SUPPORT
- xxx PAVEMENT MARKING REMOVAL - WATER BLASTING

TEMPORARY PAVEMENT MARKING-TYPE IV TAPE:

- (A) 4 INCH, WHITE SOLID
- (B) 4 INCH, YELLOW SOLID
- (C) 4 INCH, 2'-6' WHITE SKIP-DASH
- (D) PAVEMENT MARKING REMOVAL - WATER BLASTING
- (F) 5 INCH, WHITE SOLID



Accurate GROUP, INC.	USER NAME = jdavis	DESIGNED - JJD	REVISED -
		DRAWN - MA	REVISED -
	PLOT SCALE = 100.0005 ' / in.	CHECKED - JJD	REVISED -
	PLOT DATE = 8/28/2023	DATE - 06/20/2023	REVISED -

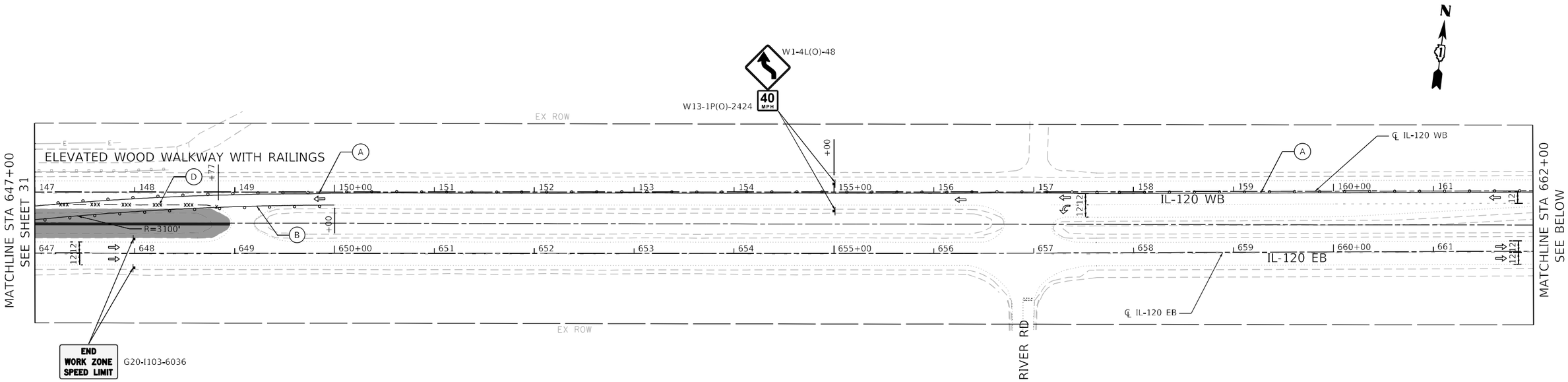
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

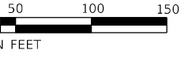
MAINTENANCE OF TRAFFIC PLAN – STAGE II
ILLINIOIS ROUTE 120 OVER DES PLAINES RIVER

SCALE: 1"=50' | SHEET 3 OF 5 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0333	2021-071-BDR	LAKE	131	31
		CONTRACT NO. 62P09		
	ILLINOIS	FED. AID PROJECT		

MODEL: Default
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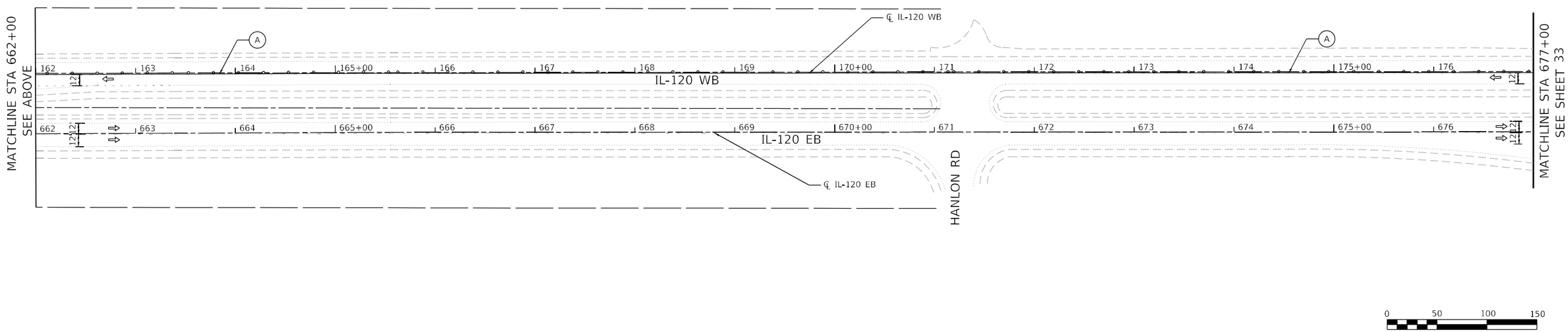


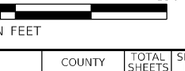
LEGEND

- WORK AREA
- FLOW OF TRAFFIC
- TYPE III BARRICADE
- ARROW BOARD
- TEMPORARY PAVEMENT
- DRUM OR TYPE II BARRICADE @ 100' C-C IN TANGENTS, 50' C-C IN TAPERS, AND 15' C-C IN RADII
- DIRECTIONAL INDICATOR BARRICADE W/STEADY BURN LIGHT @ 50' C-C
- TEMPORARY CONCRETE BARRIER W/BARRIER WALL REFLECTOR, TYPE C AND TEMPORARY MODULAR GLARE SCREEN SYSTEM
- SIGN ON PERMANENT OR TEMPORARY SUPPORT
- xxx – PAVEMENT MARKING REMOVAL - WATER BLASTING

TEMPORARY PAVEMENT MARKING-TYPE IV TAPE:

- (A) 4 INCH, WHITE SOLID
- (B) 4 INCH, YELLOW SOLID
- (C) 4 INCH, 2'-6' WHITE SKIP-DASH
- (D) PAVEMENT MARKING REMOVAL - WATER BLASTING
- (F) 5 INCH, WHITE SOLID





USER NAME = jdavis	DESIGNED - JJD	REVISED -	
	DRAWN - MA	REVISED -	
PLOT SCALE = 100.0000 ' / in.	CHECKED - JJD	REVISED -	
PLOT DATE = 8/28/2023	DATE - 06/20/2023	REVISED -	

Accurate GROUP, INC.

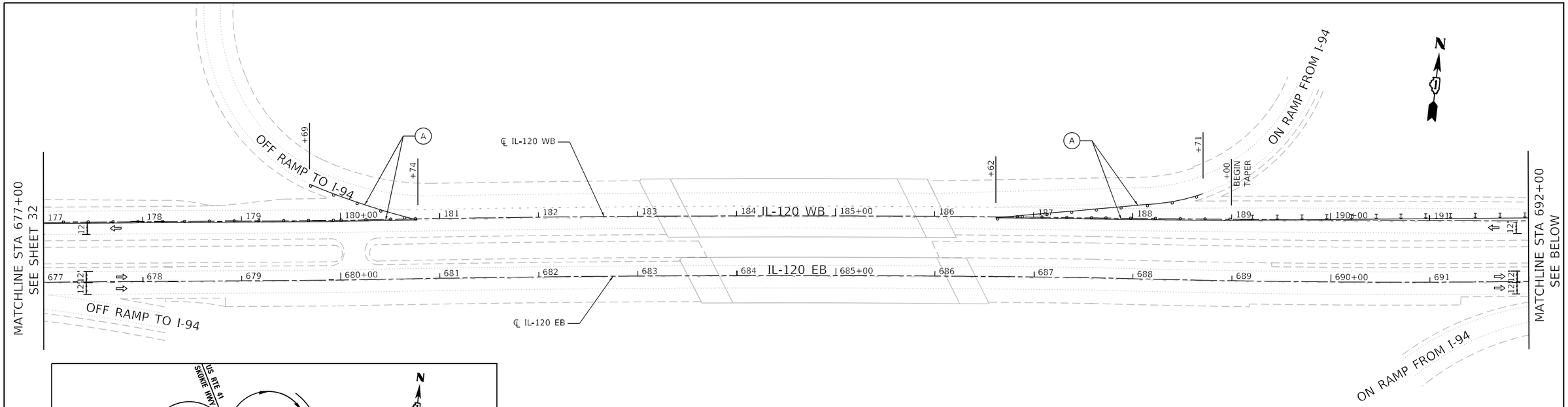
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

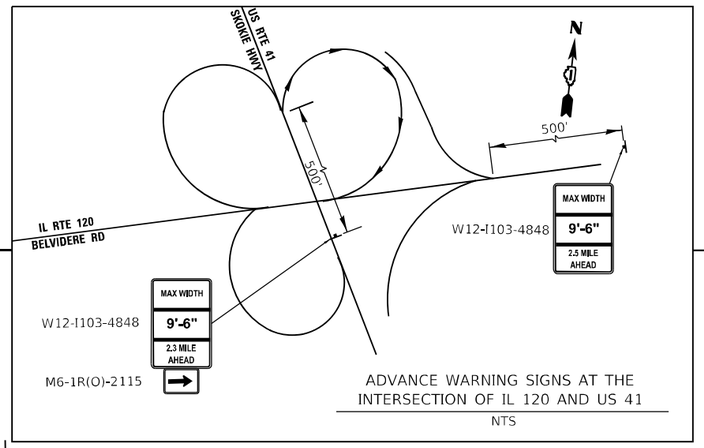
MAINTENANCE OF TRAFFIC PLAN – STAGE II
ILLINIOIS ROUTE 120 OVER DES PLAINES RIVER

SCALE: 1"=50' | SHEET 4 OF 5 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0333	2021-071-BDR	LAKE	131	32
		CONTRACT NO. 62P09		
	ILLINOIS FED. AID PROJECT			

MODEL: Default
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ADVANCE WARNING SIGNS AT THE INTERSECTION OF IL 120 AND US 41

NTS

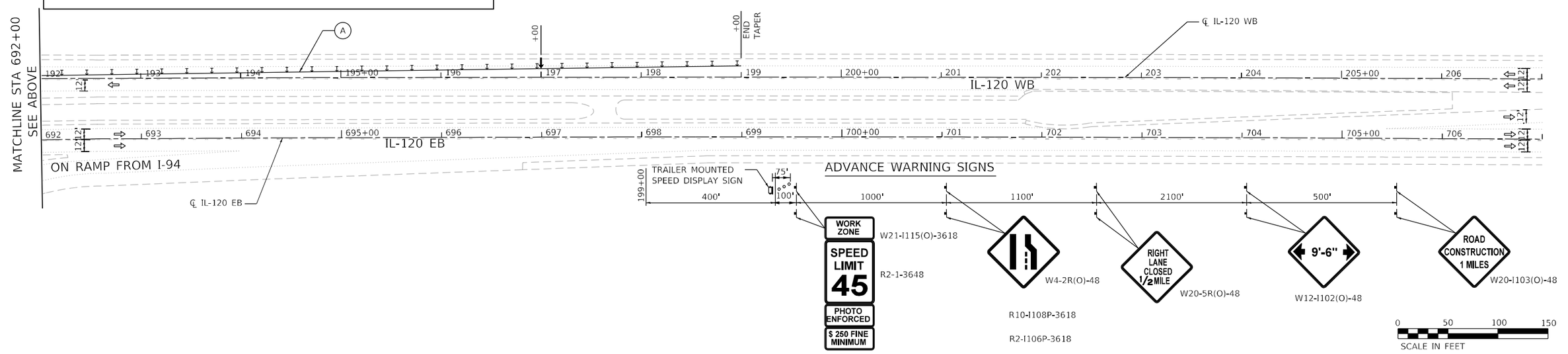
LEGEND

- WORK AREA
- FLOW OF TRAFFIC
- TYPE III BARRICADE
- ARROW BOARD
- TEMPORARY PAVEMENT
- DRUM OR TYPE II BARRICADE @ 100' C-C IN TANGENTS, 50' C-C IN TAPERS, AND 15' C-C IN RADII
- DIRECTIONAL INDICATOR BARRICADE W/STEADY BURN LIGHT @ 50' C-C
- TEMPORARY CONCRETE BARRIER W/BARRIER WALL REFLECTOR, TYPE C AND TEMPORARY MODULAR GLARE SCREEN SYSTEM
- SIGN ON PERMANENT OR TEMPORARY SUPPORT
- -xxx- PAVEMENT MARKING REMOVAL - WATER BLASTING

TEMPORARY PAVEMENT MARKING-TYPE IV TAPE:

- (A) 4 INCH, WHITE SOLID
- (B) 4 INCH, YELLOW SOLID
- (C) 4 INCH, 2'-6' WHITE SKIP-DASH
- (D) PAVEMENT MARKING REMOVAL - WATER BLASTING
- (F) 5 INCH, WHITE SOLID

0 50 100 150
SCALE IN FEET



0 50 100 150
SCALE IN FEET

MODEL: Default
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Accurate GROUP, INC.

USER NAME = Jdavis	DESIGNED - JJD	REVISED -	
	DRAWN - MA	REVISED -	
PLOT SCALE = 100.0000 ' / in.	CHECKED - JJD	REVISED -	
PLOT DATE = 8/28/2023	DATE - 06/20/2023	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC PLAN – STAGE II
ILLINIOIS ROUTE 120 OVER DES PLAINES RIVER

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0333	2021-071-BDR	LAKE	131	33
		CONTRACT NO. 62P09		
	ILLINOIS	FED. AID PROJECT		

GENERAL NOTES:

1. THIS PROJECT INCLUDES THE INSTALLATION OF TEMPORARY LIGHTING FOR TEMPORARY CROSSOVERS ALONG IL 120 DURING THE REHABILITATION OF THE WESTBOUND AND EASTBOUND BRIDGES OVER DES PLAINES RIVER. THE EXISTING LIGHTING AT THE IL 120/IL 21 INTERCHANGE IS OWNED AND MAINTAINED BY IDOT-D1.

2. THE CONTRACTOR IS RESPONSIBLE FOR OPERATION AND MAINTENANCE OF TEMPORARY LIGHTING SYSTEM AND SHALL ENSURE CONTINUOUS OPERATION FROM DUSK TO DAWN.

3. THE CONTRACTOR SHALL CONTACT THE ELECTRIC UTILITY COMPANY TO COORDINATE THE ELECTRIC SERVICE WORK. THE CONTACT PERSON IS CARLOS BELMONTE, HIS PHONE NUMBER IS (224) 213-5662.

4. THE CONTRACTOR SHALL NOTIFY J.U.L.I.E. TO LOCATE AND MARK/STAKE ALL UNDERGROUND UTILITIES. MEADE ELECTRIC CO. DISTRICT 1 ELECTRICAL MAINTENANCE CONTRACTOR LOCATES IDOT ELECTRICAL EQUIPMENT AND UNDERGROUND CABLES, CALL MEADE ELECTRIC CO. TO TRANSFER IDOT MAINTAINED EQUIPMENT TO THE CONTRACTOR BEFORE THE START OF ANY WORK. THEIR PHONE NUMBER IS 773-287-7672. CONTACT KEITH KNAPP AT keith.knapp@illinois.gov OR 708-524-8652 TWO WEEKS BEFORE THE ANTICIPATED LIGHTING MAINTENANCE TRANSFER.

5. THE CONTRACTOR SHALL VERIFY LOCATIONS OF UNDERGROUND/OVERHEAD UTILITIES PRIOR TO INSTALLATION OF LIGHT POLES AND CONDUITS. IF THERE IS A CONFLICT WITH THE LIGHT POLES/CONDUITS AS SHOWN ON PLANS, THE CONTRACTOR SHALL SUGGEST ALTERNATIVE LOCATIONS AND COORDINATE WITH THE ENGINEER PRIOR TO PERFORMING ANY CONSTRUCTION WORK.

6. TRENCHES FOR LIGHTING RACEWAYS SHALL HAVE A MINIMUM DEPTH OF 30".

7. LIGHTING SYSTEM INSTALLATION SHALL CONFORM TO THE LATEST IDOT STANDARDS, NEC AND LOCAL CODES.

8. ALL ELECTRICAL EQUIPMENT AND PRODUCTS SHALL BE UL LISTED AND LABELED.

9. THE CONTRACTOR SHALL TAKE CARE WHEN INSTALLING UNIT DUCT TO AVOID CONFLICTS WITH EXISTING UNDERGROUND UTILITIES AND TREE'S ROOTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE AS DETERMINED BY THE ENGINEER.

10. GROUND RODS SHALL BE INSTALLED AT EACH LIGHTING UNIT.

BILL OF MATERIALS

PAY ITEM	DESCRIPTION	UNIT	QUANTITY
80400100	ELECTRIC SERVICE INSTALLATION	EACH	1
80400200	ELECTRIC UTILITY SERVICE CONNECTION	L SUM	1
81603040	UNIT DUCT, 600V, 2-1C NO.6, 1/C NO.8 GROUND, (XLP-TYPE USE), 1" DIA. POLYETHYLENE	FOOT	342
81800230	AERIAL CABLE, 2-1/C NO. 6 WITH MESSENGER WIRE	FOOT	1399
81800330	AERIAL CABLE, 3-1/C NO. 6 WITH MESSENGER WIRE	FOOT	1498
83057405	LIGHT POLE, WOOD, 70 FOOT, CLASS 3, WITH 15FT MAST ARM	EACH	13
X0322141	REMOVE TEMPORARY WOOD POLE	EACH	14
X0327236	TEMPORARY WOOD POLE, 50 FT., CLASS 4	EACH	1
X8211009	TEMPORARY LUMINAIRE, LED, ROADWAY, OUTPUT DESIGNATION I	EACH	13
X8250065	TEMPORARY LIGHTING CONTROLLER, 240 VOLT, POLE MOUNTED	EACH	1
Z0033028	MAINTENANCE OF LIGHTING SYSTEM	CAL MO	12

LEGEND

- EXISTING LIGHTING UNIT TO REMAIN
- TEMPORARY WOOD POLE, 60 FT. MH, 15 FT. MAST ARM, WITH 240V, LED LUMINAIRE, 264W
- EXISTING LIGHTING CONTROLLER BASE MOUNTED, 240 VOLT, 100 AMP
- T — TEMPORARY LIGHTING CONTROLLER, 240V, POLE MOUNTED
- UNIT DUCT, 600V, 2-1/C NO.6, 1/C NO.8 GROUND, (XLP-TYPE USE), 1" DIA. POLYETHYLENE
- A/C — AERIAL CABLE, 3-1/C NO. 6 WITH MESSENGER WIRE OR 2-1/C NO. 6 WITH MESSENGER AS INDICATED
- TEMPORARY WOOD POLE, 50FT, CLASS 4
- GROUND ROD

LT–01

MODEL: Default
FILE NAME: F:\Projects\1060-var -Bowman\WO 29\Design\Sht\D162P09 -light 01.dgn

AMES Engineering, Inc.
CONSULTING ENGINEERS
6330 Belmont Road, Suite 4B
Downers Grove, IL 60516

USER NAME = mdeltche	DESIGNED - BL	REVISED -	
	DRAWN - SR	REVISED -	
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PLOT DATE = 10/5/2023	DATE - 09-29-23	REVISED -	

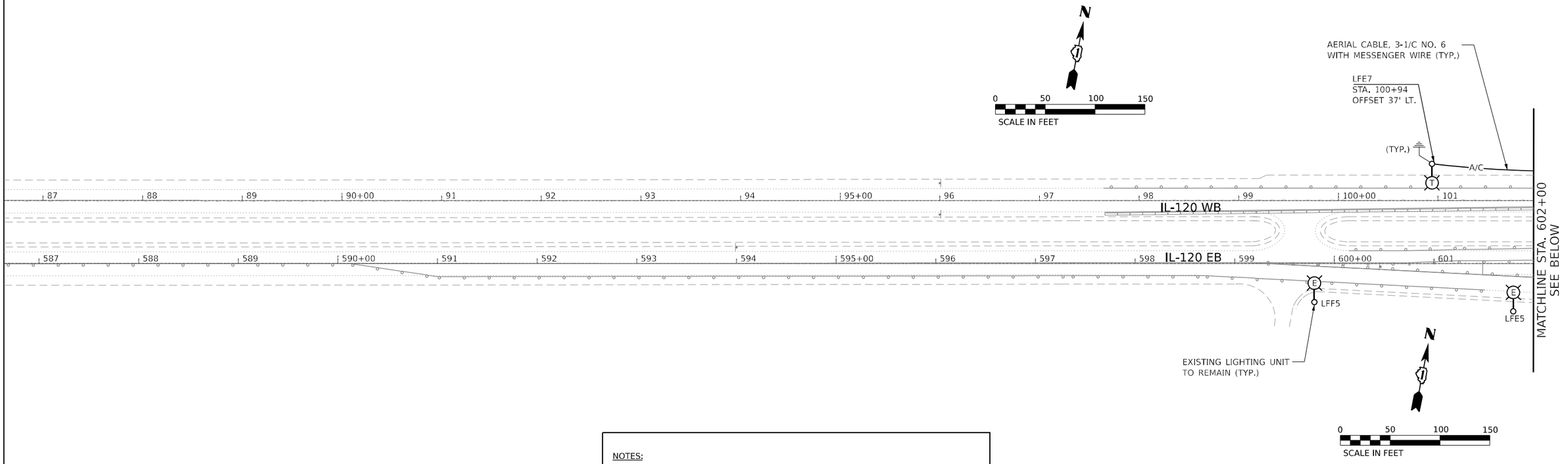
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL NOTES, BILL OF MATERIALS AND LEGEND
ILLINOIS ROUTE 120 OVER DES PLAINES RIVER

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

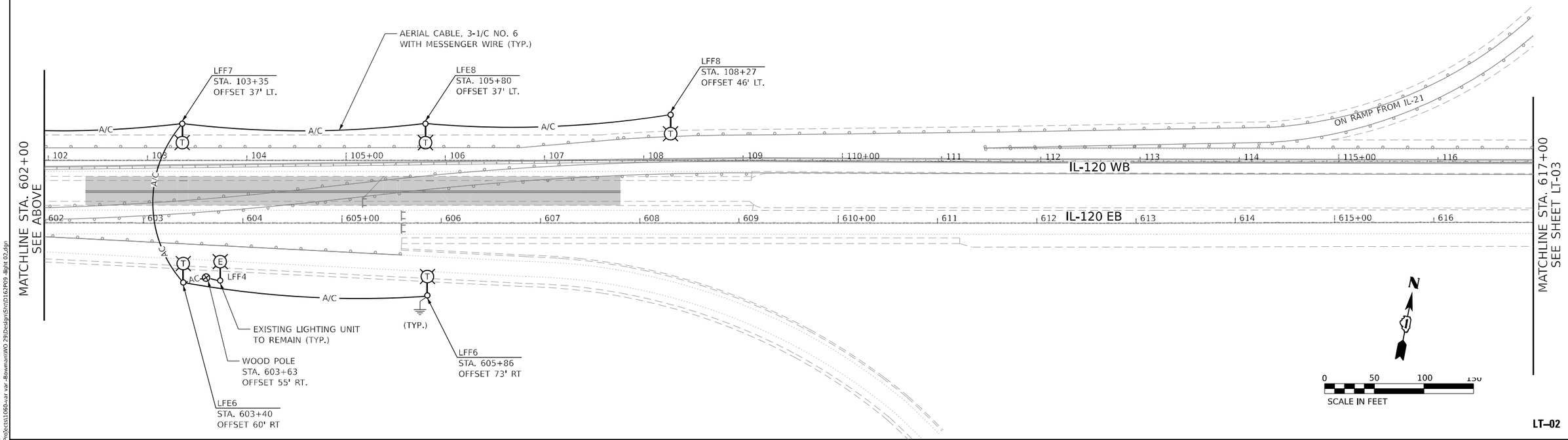
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0333	2021-071-BDR	LAKE	131	33A
		CONTRACT NO. 62P09		
	ILLINOIS	FED. AID PROJECT		

Long Section Number



NOTES:

1. FOR GENERAL NOTES AND LEGEND, SEE SHEET LT-01.
2. TEMPORARY LIGHTING INSTALLED IN STAGE 1 SHALL REMAIN THROUGOUT STAGE 2.



LT–02

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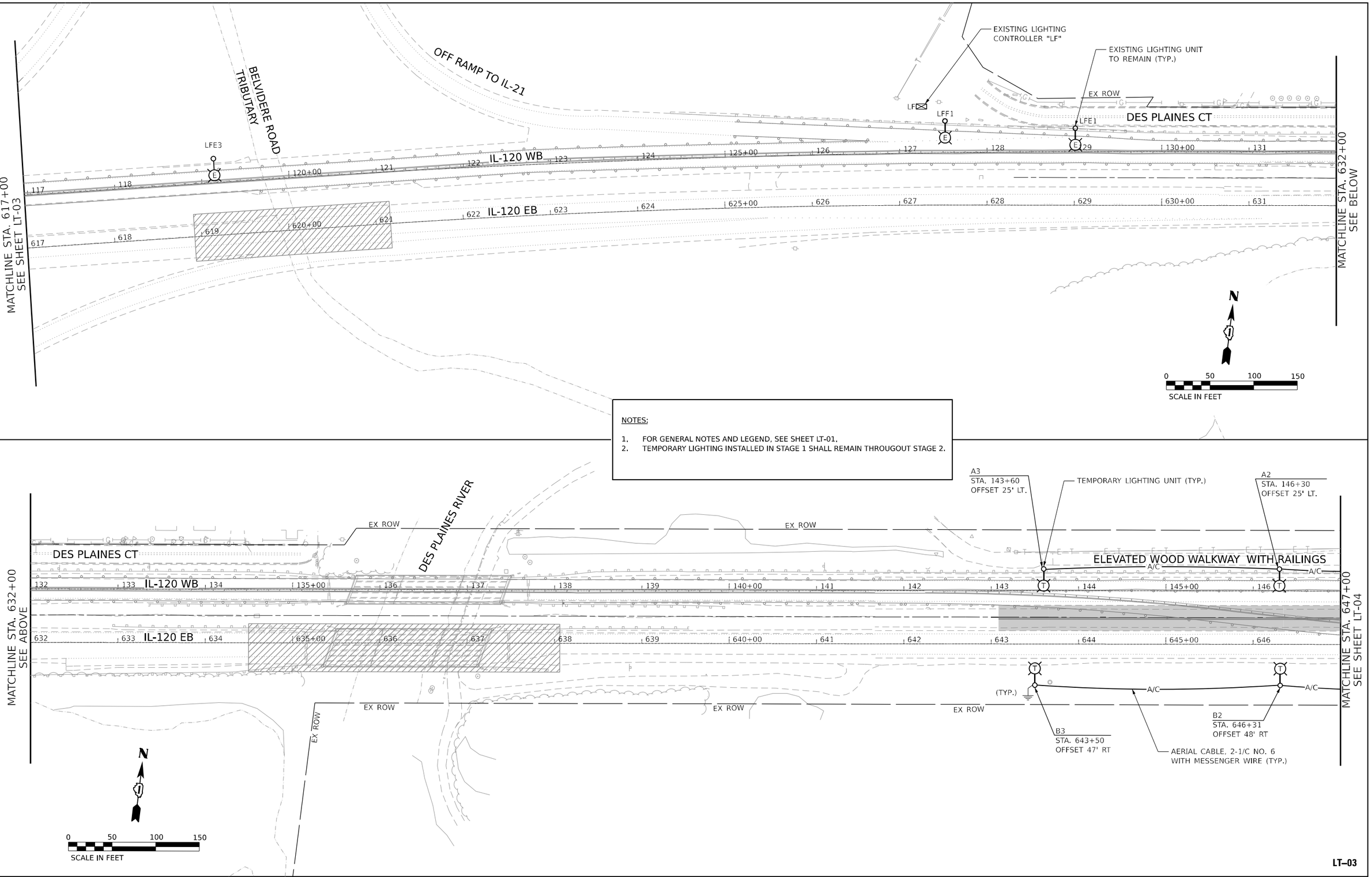
AMES Engineering, Inc. CONSULTING ENGINEERS 6330 Belmont Road, Suite 4B Downers Grove, IL 60516	USER NAME = mdeltche	DESIGNED - BL	REVISED -	**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**
		DRAWN - SR	REVISED -	
	PLOT SCALE = 100.000 ' / in.	CHECKED - MH	REVISED -	
	PLOT DATE = 9/28/2023	DATE - 09-29-23	REVISED -	

TEMPORARY LIGHTING PLAN – STAGE 1
ILLINOIS ROUTE 120 OVER DES PLAINES RIVER

SCALE: 1"=50' | SHEET 1 OF 3 SHEETS | STA. 587+00 TO STA. 617+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0333	2021-071-BDR	LAKE	131	33B
		CONTRACT NO. 62P09		
	ILLINOIS FED. AID PROJECT			

Long Section Number



LT–03

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AMES Engineering, Inc. CONSULTING ENGINEERS 6330 Belmont Road, Suite 4B Downers Grove, IL 60516	USER NAME = mdeltche	DESIGNED - BL	REVISED -
		DRAWN - SR	REVISED -
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	PLOT DATE = 9/28/2023	DATE - 09-29-23	REVISED -

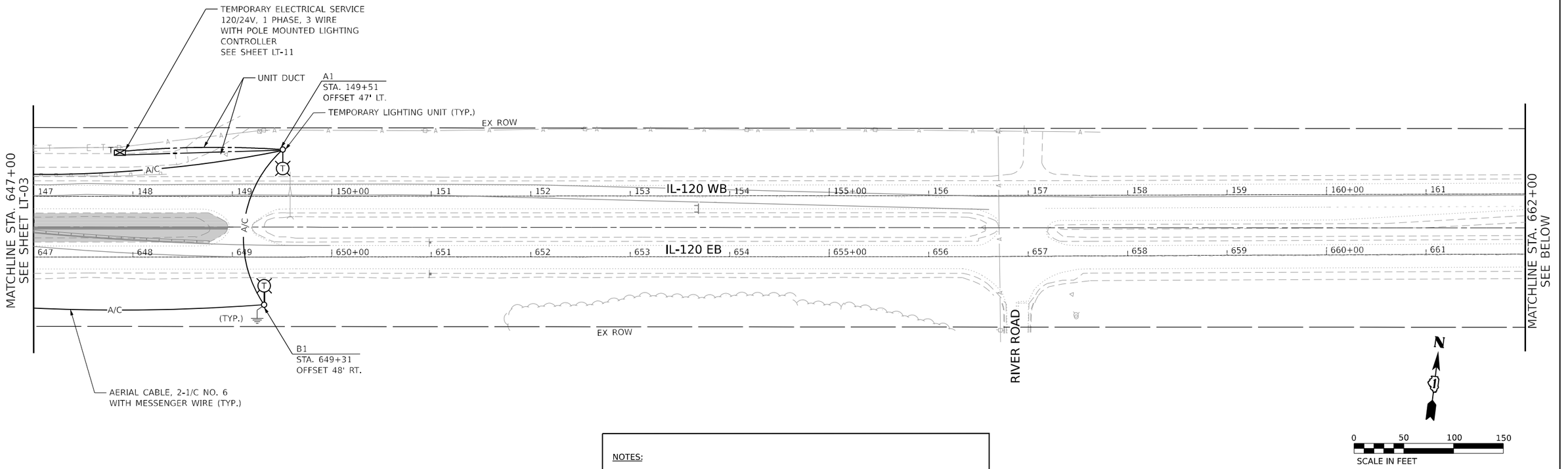
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY LIGHTING PLAN – STAGE 1
ILLINOIS ROUTE 120 OVER DES PLAINES RIVER

SCALE: 1"=50' | SHEET 2 OF 3 SHEETS | STA. 617+00 TO STA. 647+00

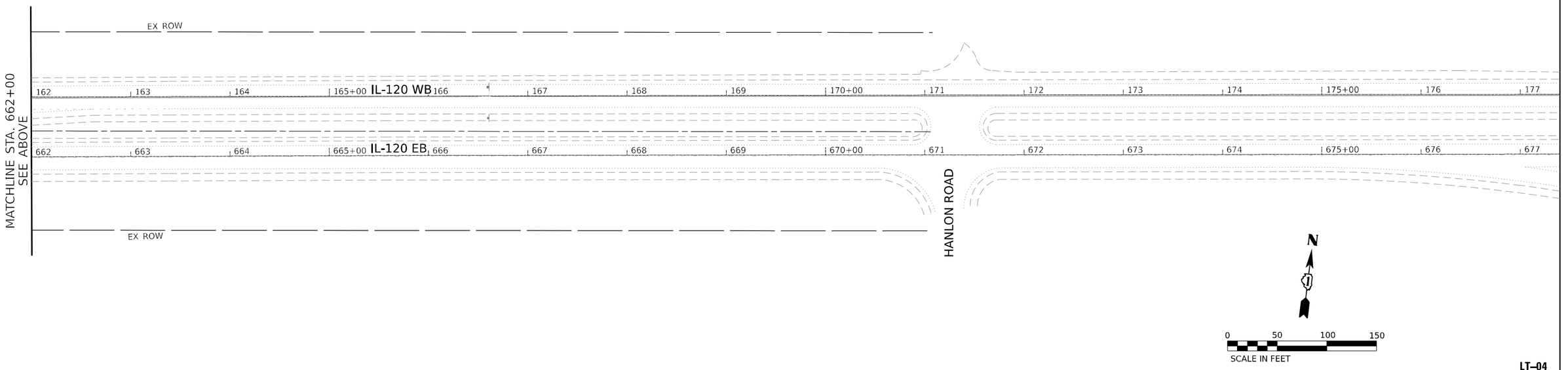
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0333	2021-071-BDR	LAKE	131	33C
		CONTRACT NO. 62P09		
	ILLINOIS	FED. AID PROJECT		

Long Section Number



NOTES:

1. FOR GENERAL NOTES AND LEGEND, SEE SHEET LT-01.
2. TEMPORARY LIGHTING INSTALLED IN STAGE 1 SHALL REMAIN THROUGOUT STAGE 2.



LT–04

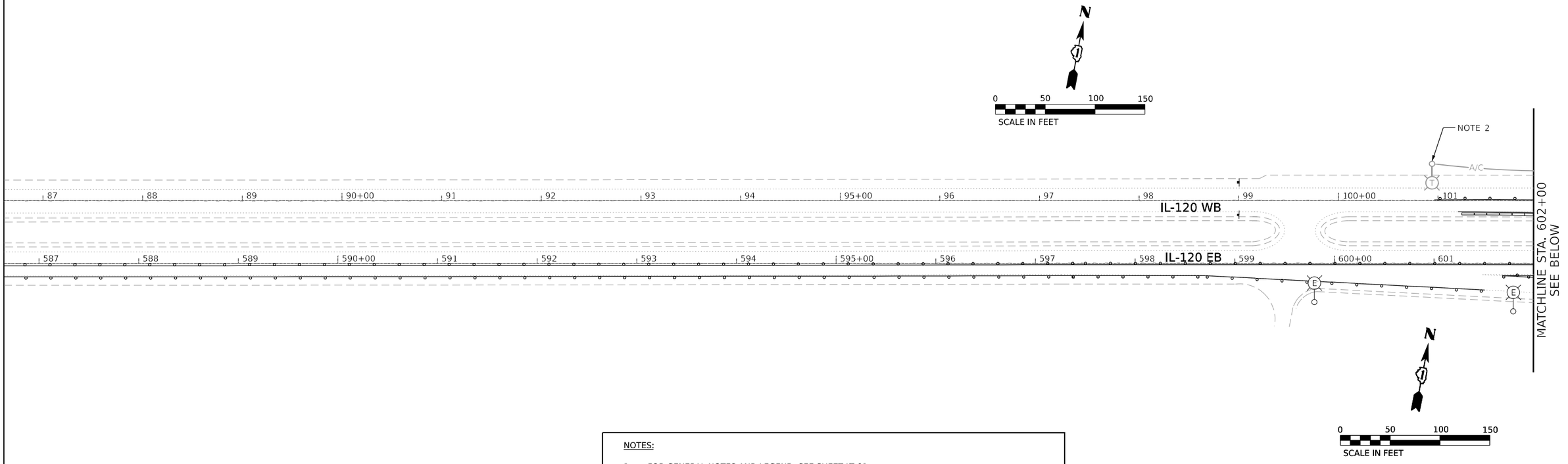
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AMES Engineering, Inc. CONSULTING ENGINEERS 6330 Belmont Road, Suite 4B Downers Grove, IL 60516	USER NAME = mdeltche	DESIGNED - BL	REVISED -	**STATE OF ILLINOIS** **DEPARTMENT OF TRANSPORTATION**	**TEMPORARY LIGHTING PLAN – STAGE 1** **ILLINOIS ROUTE 120 OVER DES PLAINES RIVER**
		DRAWN - SR	REVISED -		
	PLOT SCALE = 100.001 ' / in.	CHECKED - MH	REVISED -		
	PLOT DATE = 10/5/2023	DATE - 09-29-23	REVISED -		

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0333	2021-071-BDR	LAKE	131	33D
		CONTRACT NO. 62P09		
	ILLINOIS	FED. AID PROJECT		

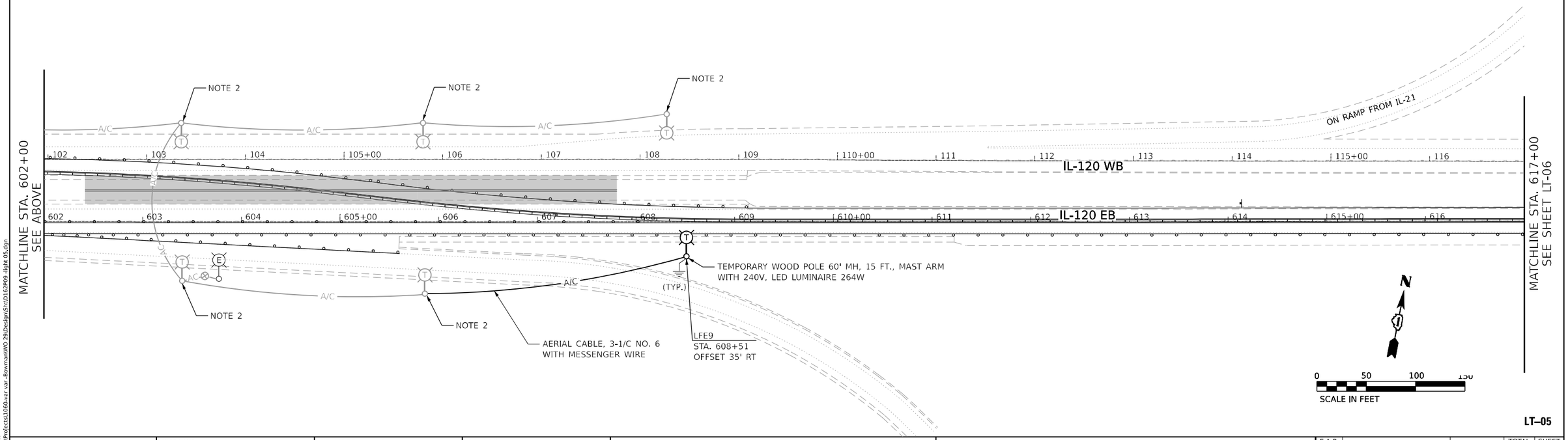
SCALE: 1"=50' | SHEET 3 OF 3 SHEETS | STA. 647+00 | TO STA. 677+00

Long Section Number



NOTES:

1. FOR GENERAL NOTES AND LEGEND, SEE SHEET LT-01.
2. TEMPORARY LIGHTING INSTALLED IN STAGE 1 SHALL REMAIN THROUGOUT STAGE 2.
3. TEMPORARY LIGHTING INSTALLED IN STAGE 1 AND 2 SHALL BE REMOVED AFTER THE TEMPORARY CROSSOVER HAS BEEN REMOVED AND THE TRAFFIC RESUMES NORMAL OPERATION.



LT–05

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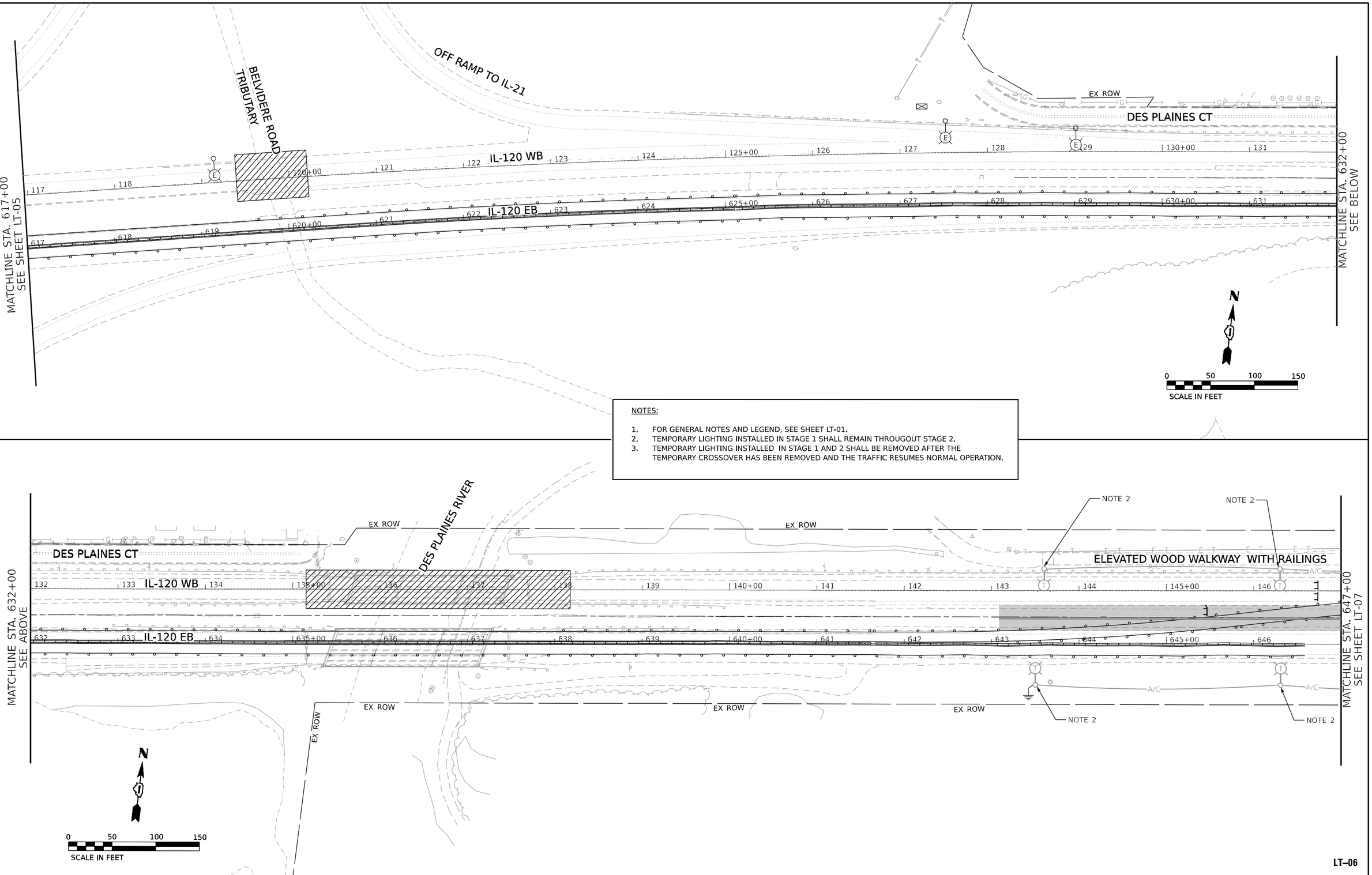
AMES Engineering, Inc. CONSULTING ENGINEERS 6330 Belmont Road, Suite 4B Downers Grove, IL 60516	USER NAME = mdeltche	DESIGNED - BL	REVISED -	**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**
		DRAWN - SR	REVISED -	
	PLOT SCALE = 100.000 ' / in.	CHECKED - MH	REVISED -	
	PLOT DATE = 9/28/2023	DATE - 09-29-23	REVISED -	

TEMPORARY LIGHTING PLAN – STAGE 2
ILLINOIS ROUTE 120 OVER DES PLAINES RIVER

SCALE: 1"=50' | SHEET 1 OF 3 SHEETS | STA. 587+00 TO STA. 617+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0333	2021-071-BDR	LAKE	131	33E
		CONTRACT NO. 62P09		
	ILLINOIS	FED. AID PROJECT		

Long Section Number



NOTES:

1. FOR GENERAL NOTES AND LEGEND, SEE SHEET LT-01.
2. TEMPORARY LIGHTING INSTALLED IN STAGE 1 SHALL REMAIN THROUGOUT STAGE 2.
3. TEMPORARY LIGHTING INSTALLED IN STAGE 1 AND 2 SHALL BE REMOVED AFTER THE TEMPORARY CROSSOVER HAS BEEN REMOVED AND THE TRAFFIC RESUMES NORMAL OPERATION.

LT–06

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AMES Engineering, Inc.
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6330 Belmont Road, Suite 4B
Downers Grove, IL 60516

USER NAME = mdeltche	DESIGNED - BL	REVISED -	
	DRAWN - SR	REVISED -	
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PLOT DATE = 9/28/2023	DATE - 09-29-23	REVISED -	

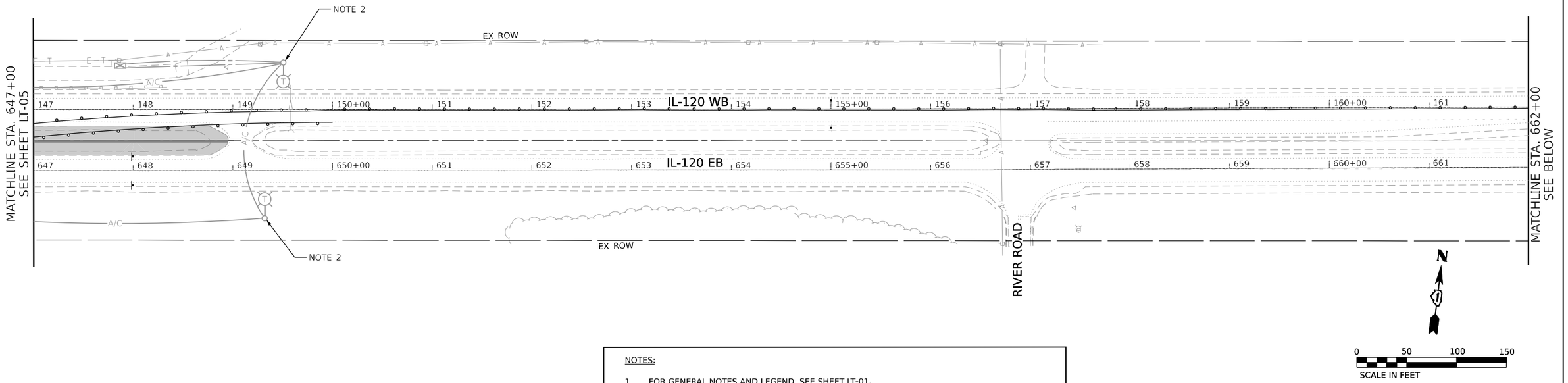
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY LIGHTING PLAN – STAGE 2
ILLINOIS ROUTE 120 OVER DES PLAINES RIVER

SCALE: 1"=50' | SHEET 2 OF 3 SHEETS | STA. 617+00 | TO STA. 647+00

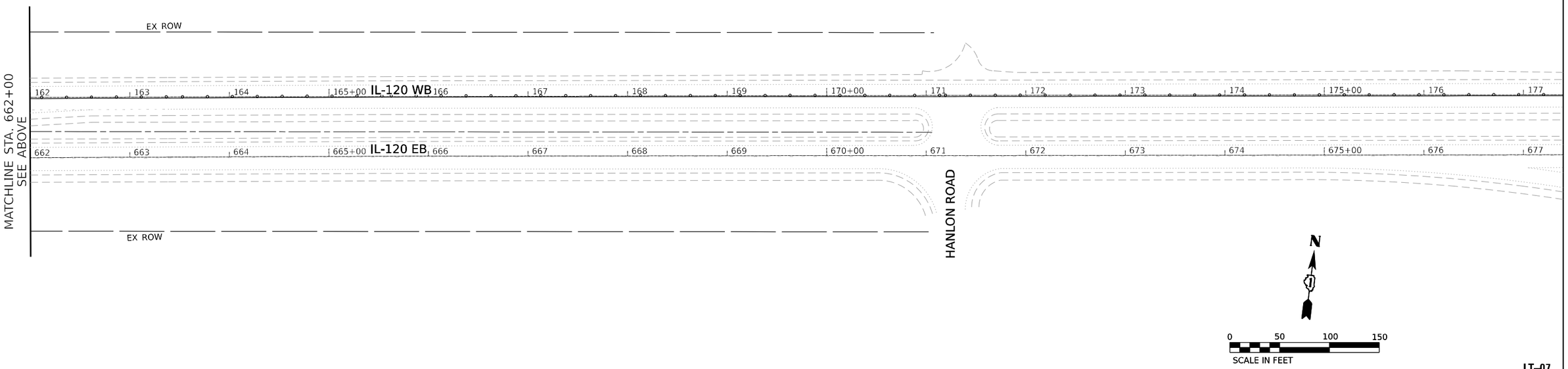
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0333	2021-071-BDR	LAKE	131	33F
		CONTRACT NO. 62P09		
	ILLINOIS	FED. AID PROJECT		

Long Section Number



NOTES:

1. FOR GENERAL NOTES AND LEGEND, SEE SHEET LT-01.
2. TEMPORARY LIGHTING INSTALLED IN STAGE 1 SHALL REMAIN THROUGOUT STAGE 2.
3. TEMPORARY LIGHTING INSTALLED IN STAGE 1 AND 2 SHALL BE REMOVED AFTER THE TEMPORARY CROSSOVER HAS BEEN REMOVED AND THE TRAFFIC RESUMES NORMAL OPERATION.



LT–07

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AMES Engineering, Inc.
CONSULTING ENGINEERS
6330 Belmont Road, Suite 4B
Downers Grove, IL 60516

USER NAME = mdeltche		DESIGNED - BL	REVISED -		
		DRAWN - SR	REVISED -		
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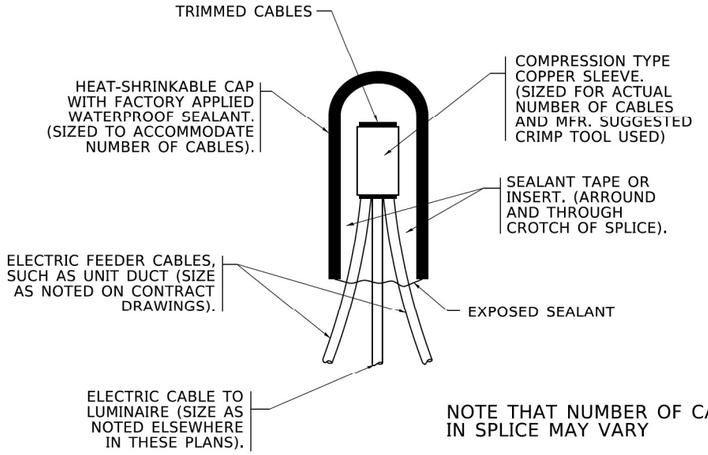
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY LIGHTING PLAN – STAGE 2
ILLINOIS ROUTE 120 OVER DES PLAINES RIVER

SCALE: 1"=50' | SHEET 3 OF 3 SHEETS | STA. 647+00 | TO STA. 677+00

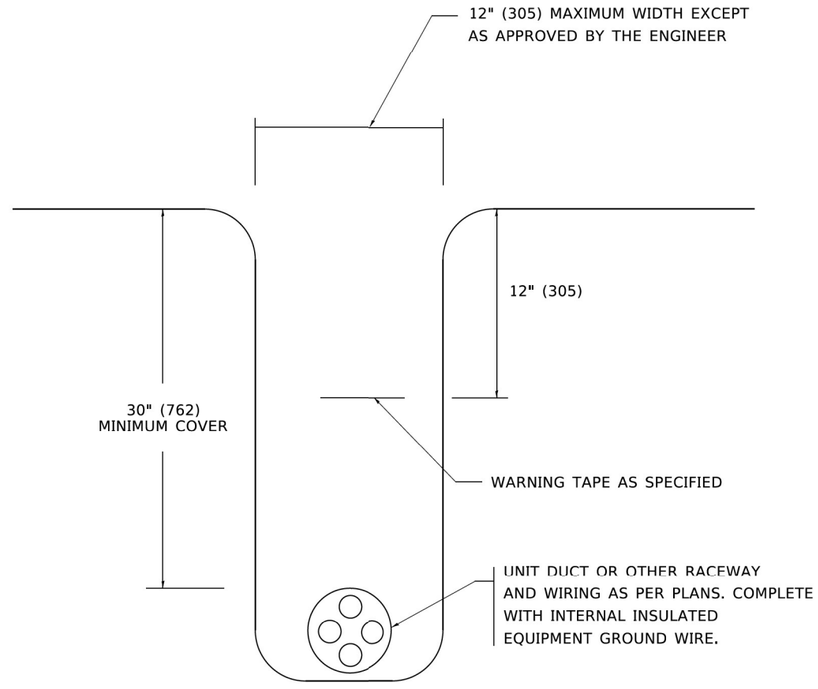
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		CONTRACT NO. 62P09		
	ILLINOIS	FED. AID PROJECT		

Long Section Number

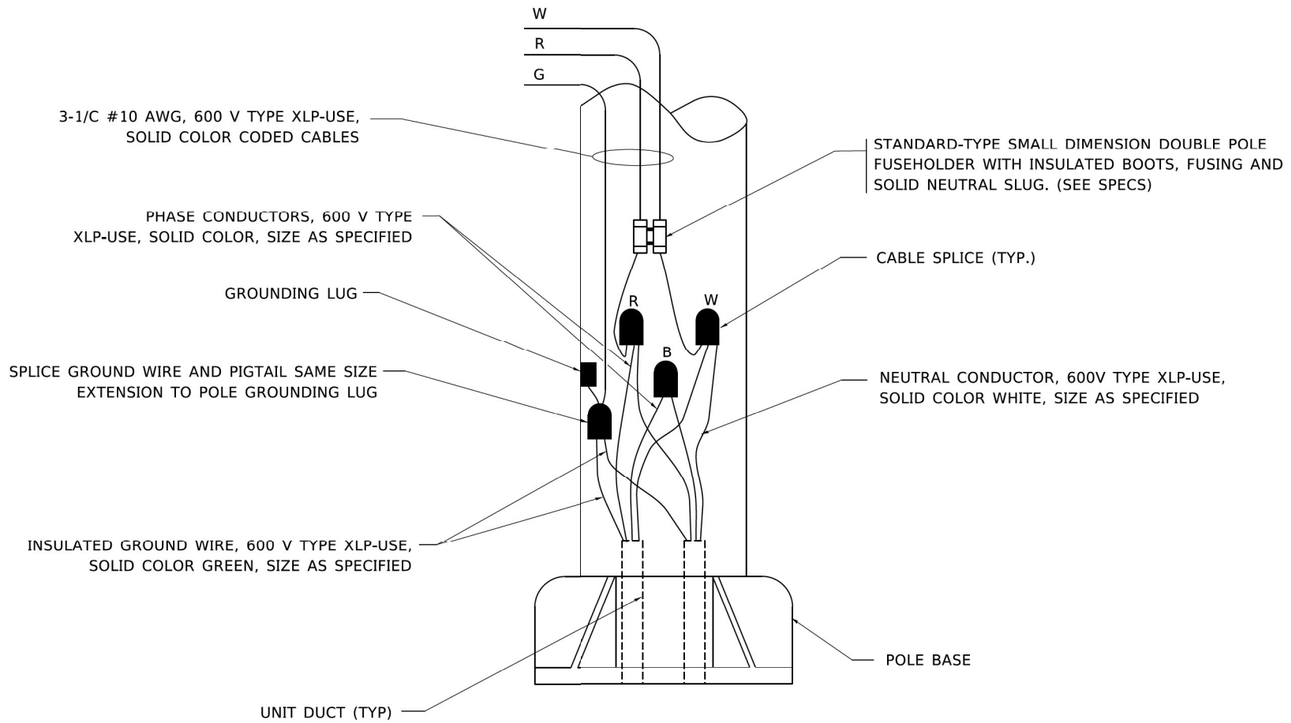


NOTE THAT NUMBER OF CABLES IN SPLICE MAY VARY

TYPICAL SPLICE DETAIL
N.T.S.



TYPICAL WIRING IN TRENCH DETAIL
N.T.S.



POLE WIRING DETAIL
N.T.S.

LT–08

AMES Engineering, Inc.
CONSULTING ENGINEERS
6330 Belmont Road, Suite 4B
Downers Grove, IL 60516

USER NAME = leysa	DESIGNED -	REVISED - 02/04/2020
	DRAWN -	REVISED -
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PLOT DATE = 3/2/2020	DATE - 08/08/2003	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

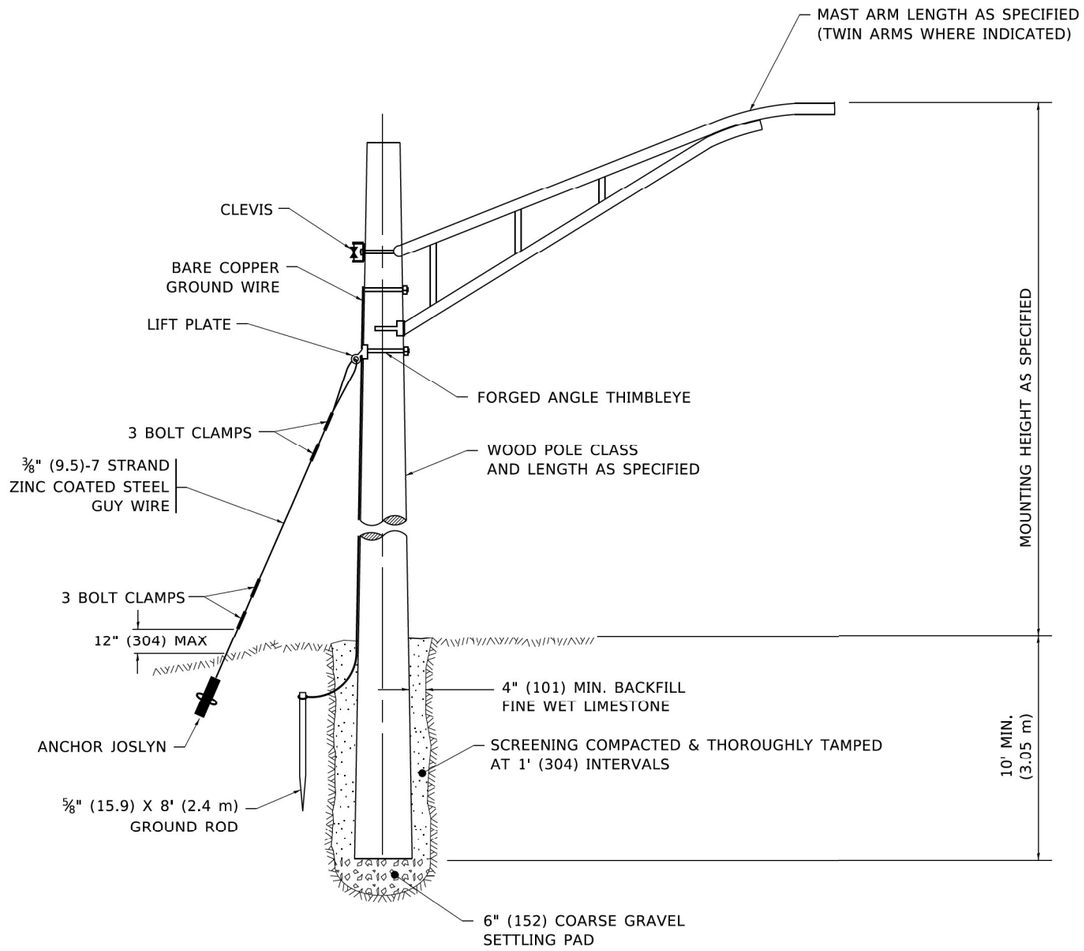
MISC. ELECTRICAL DETAILS
SHEET A

SCALE: NONE | SHEET 1 OF 1 SHEETS | STA. | TO STA.

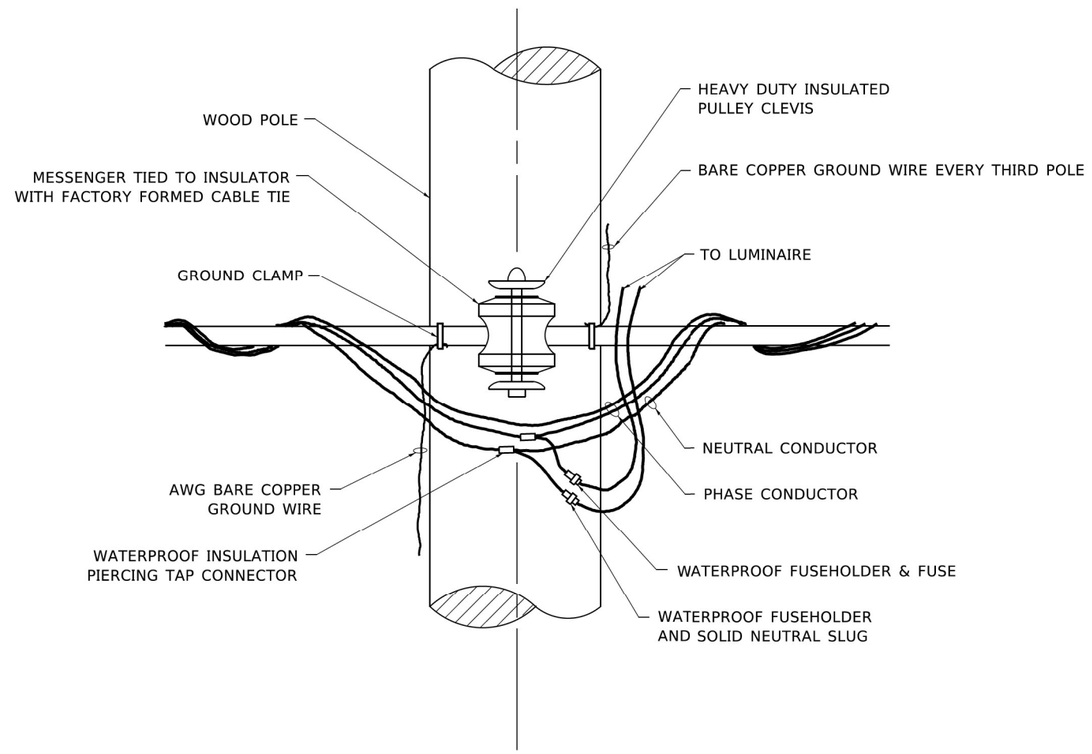
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TEMPORARY LIGHT POLE DETAIL



TEMPORARY LIGHT POLE ATTACHMENT DETAIL

NOTE:

1. ALL DIMENSIONS IN INCHES (MILLIMETERS) UNLESS OTHERWISE INDICATED.
2. MAST ARM SHALL BE RATED FOR THE SPECIFIED MOUNTING HEIGHT.

LT–09

MODEL: Default
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AMES Engineering, Inc.
CONSULTING ENGINEERS
6330 Belmont Road, Suite 4B
Downers Grove, IL 60516

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	DRAWN -	REVISED - R.T. 07-26-16
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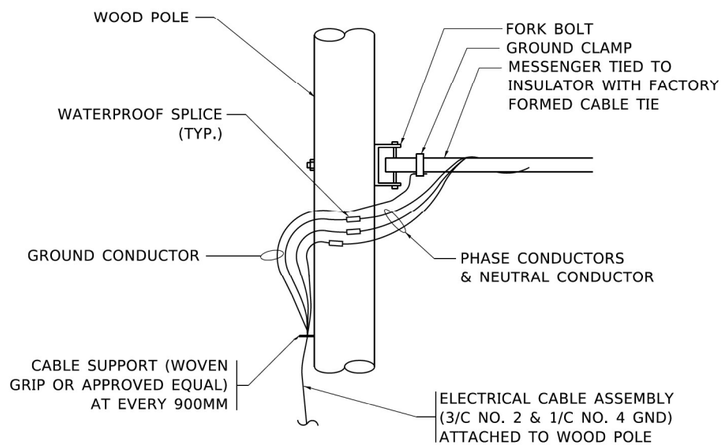
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY LIGHT POLE DETAILS

SCALE: NONE | SHEET 1 OF 1 SHEETS | STA. | TO STA.

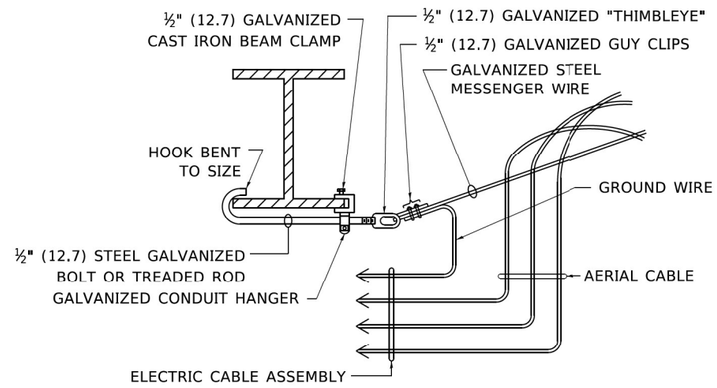
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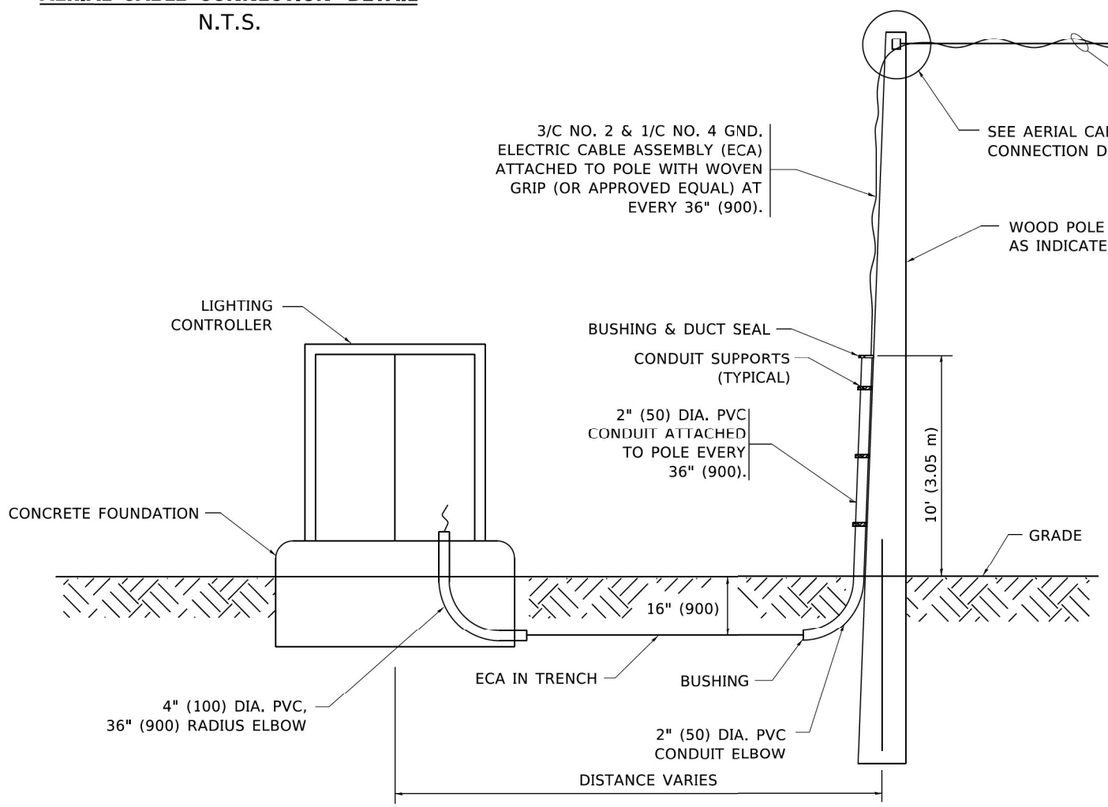
AERIAL CABLE CONNECTION DETAIL

N.T.S.



AERIAL CABLE ATTACHED TO STRUCTURE

NOT TO SCALE



WOOD POLE TO LIGHTING CONTROLLER WIRING CONNECTION DETAIL

N.T.S.

NOTES:

1. ALL DIMENSIONS IN INCHES (MILLIMETERS) UNLESS OTHERWISE INDICATED.
2. SEE PROPOSED LIGHTING PLAN FOR CONDUIT, CABLE AND ROUTING.
3. THE CONTRACTOR SHALL PROVIDE INTERMEDIATE SUPPORTS TO MAINTAIN MINIMUM CLEARANCES. REFER TO AERIAL AERIAL CABLE ATTACHED TO STRUCTURE DETAIL.
4. COST OF SPLICES AND MOUNTING HARDWARE SHALL BE INCLUDED IN THE UNIT PRICE FOR AERIAL CABLE.

LT–10

AMES Engineering, Inc.
CONSULTING ENGINEERS
6330 Belmont Road, Suite 4B
Downers Grove, IL 60516

USER NAME = footem]	DESIGNED -	REVISED - 08-08-03
	DRAWN -	REVISED -
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PLOT DATE = 4/19/2019	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY AERIAL CABLE INSTALLATION

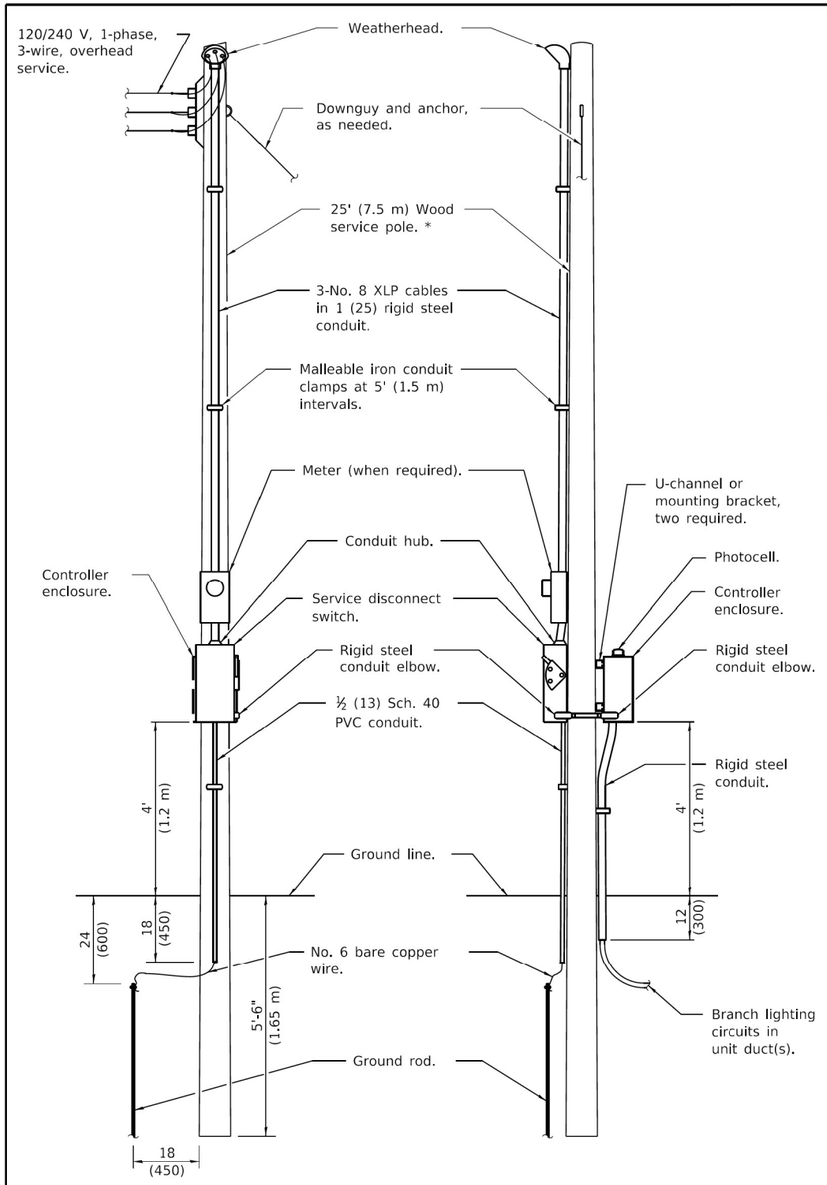
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F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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30 AMP

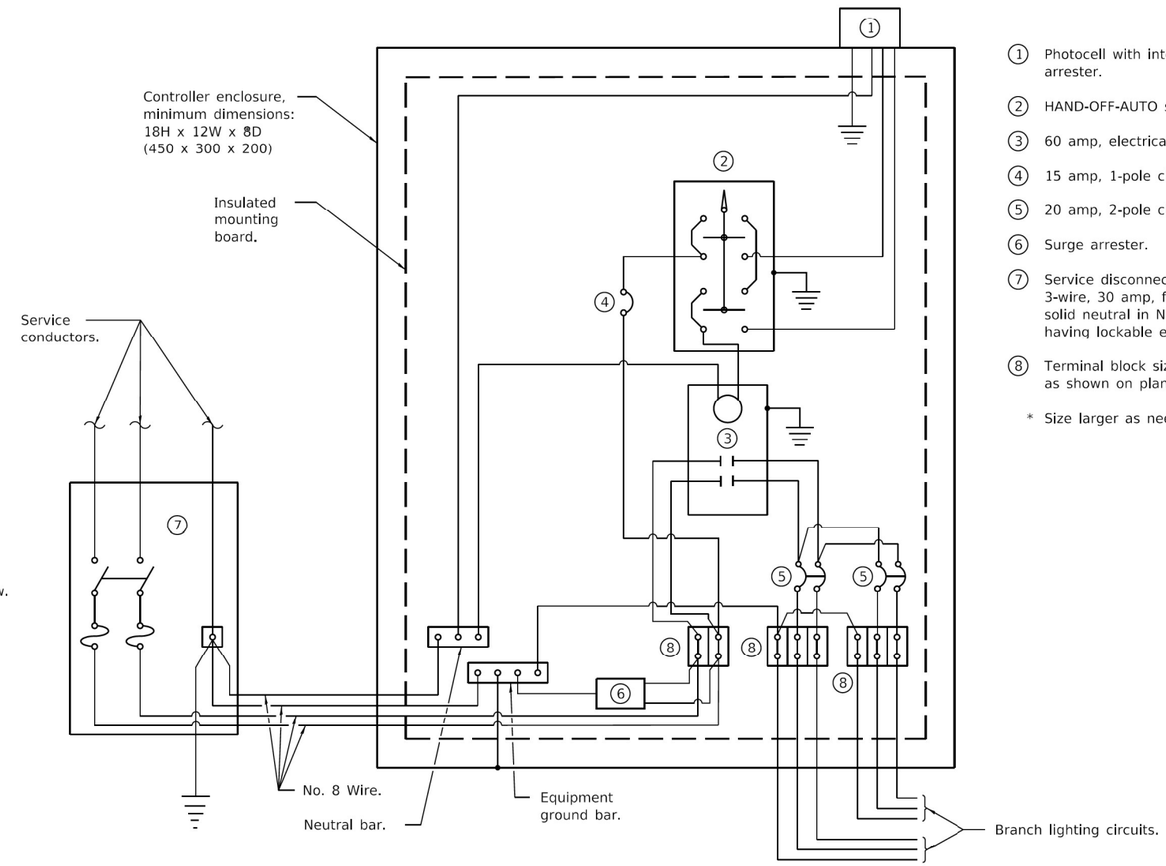


FRONT **SIDE**

ELECTRIC SERVICE INSTALLATION

(Typical overhead service shown. Cut pole off for underground service and treat cut surface with preservative. Consult utility company standards for exact requirements.)

* Size larger as needed.



CONTROL SCHEMATIC

① Photocell with integral surge arrester.

② HAND-OFF-AUTO selector switch.

③ 60 amp, electrically held contactor.

④ 15 amp, 1-pole circuit breaker.

⑤ 20 amp, 2-pole circuit breaker.

⑥ Surge arrester.

⑦ Service disconnect switch - 2-pole, 3-wire, 30 amp, fused at 30 amp, solid neutral in NEMA 4X enclosure having lockable external handle.

⑧ Terminal block sized for conductors as shown on plans.

* Size larger as needed.

GENERAL NOTES

Provide 12x9x1 (305x225x25) watertight pouch mounted inside controller door with as-built plans and schematics.

Provide engraved nameplate on front of enclosure reading "LIGHTING".

Enclosure shall be mounted to pole with pole-bands and lag-bolts.

Work pad not shown.

All dimensions are in inches (millimeters) unless otherwise shown.

Illinois Department of Transportation

PASSED January 1, 2019
ELECTRICAL AND MECHANICAL UNIT CHIEF

APPROVED January 1, 2019
ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED 1-1-19

DATE	REVISIONS
1-1-19	Replaced ** note with new note
	regarding consulting utility
	company standards for installation.
4-1-16	Corrected connection at
	terminal block.

LIGHTING CONTROLLER POLE MOUNTED, 240V

(Sheet 1 of 2)

STANDARD 825001-04

LT–11

AMES Engineering, Inc.
CONSULTING ENGINEERS
6330 Belmont Road, Suite 4B
Downers Grove, IL 60516

USER NAME = mdeltche	DESIGNED - BL	REVISED -	
	DRAWN - SR	REVISED -	
PLOT SCALE = 0.092 ' / in.	CHECKED - MH	REVISED -	
PLOT DATE = 9/28/2023	DATE - 09-29-23	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

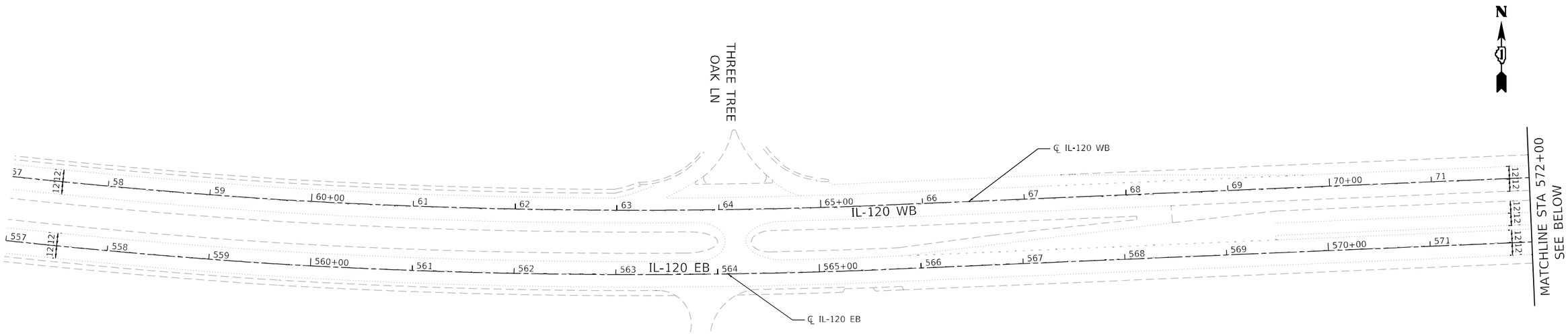
LIGHTING CONTROLLER
POLE MOUNTED, 240V

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0333	2021-071-BDR	LAKE	131	33K
		CONTRACT NO. 62P09		
	ILLINOIS	FED. AID PROJECT		

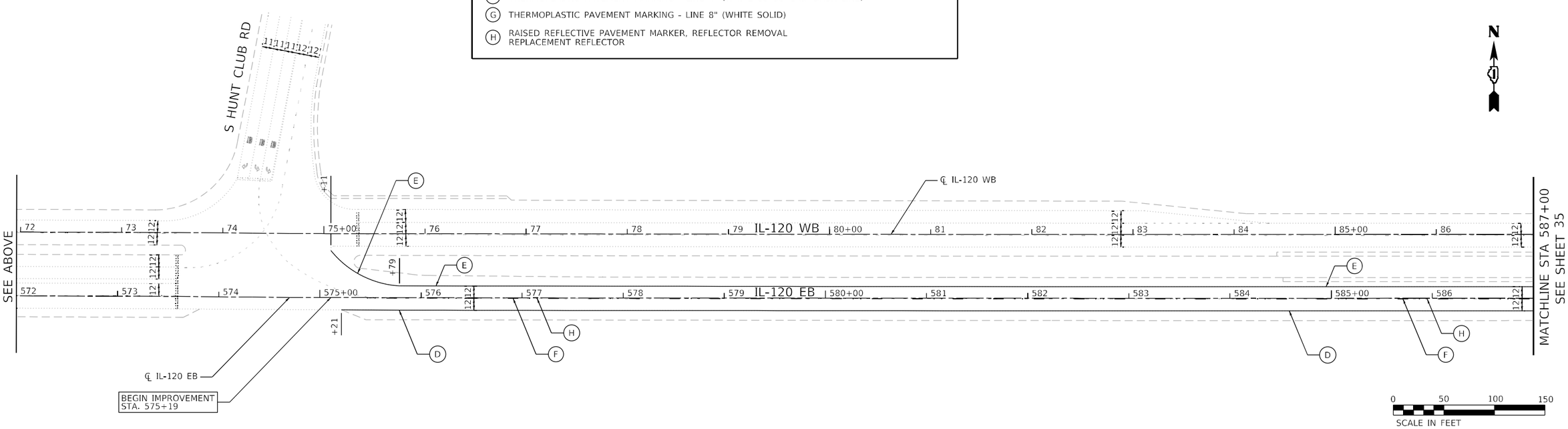
Long Section Number

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PAVEMENT MARKING LEGEND

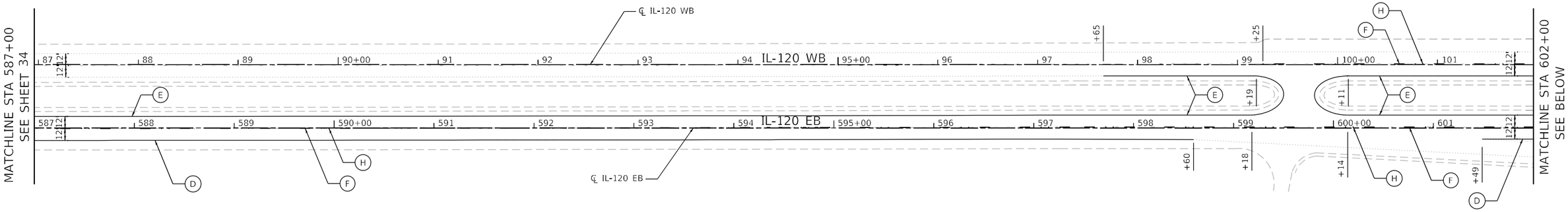
- (A) MODIFIED URETHANE PAVEMENT MARKING - LINE 4" (WHITE SOLID)
- (B) MODIFIED URETHANE PAVEMENT MARKING - LINE 4" (YELLOW SOLID)
- (C) PREFORMED PLASTIC PAVEMENT MARKING - TYPE D - LINE 7" (1.5" BLACK, 4" WHITE, 1.5" BLACK) GROOVING FOR RECESSED PAVEMENT MARKING 8"
- (D) THERMOPLASTIC PAVEMENT MARKING - LINE 4" (WHITE SOLID)
- (E) THERMOPLASTIC PAVEMENT MARKING - LINE 4" (YELLOW SOLID)
- (F) THERMOPLASTIC PAVEMENT MARKING - LINE 4" (WHITE 10'-30' SKIP DASH LINE)
- (G) THERMOPLASTIC PAVEMENT MARKING - LINE 8" (WHITE SOLID)
- (H) RAISED REFLECTIVE PAVEMENT MARKER, REFLECTOR REMOVAL REPLACEMENT REFLECTOR



Accurate GROUP, INC.	USER NAME = jdavis	DESIGNED - JJD	REVISED -	**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**	**PAVEMENT MARKING PLAN**
		DRAWN - JS	REVISED -		**ILLINIOIS ROUTE 120 OVER DES PLAINES RIVER**
	PLOT SCALE = 100.0000 ' / in.	CHECKED - JJD	REVISED -		SCALE: 1"=50' | SHEET 1 OF 4 SHEETS | STA. | TO STA.
	PLOT DATE = 8/28/2023	DATE - 06/20/2023	REVISED -		

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0333	2021-071-BDR	LAKE	131	34
		CONTRACT NO. 62P09		
	ILLINOIS FED. AID PROJECT			

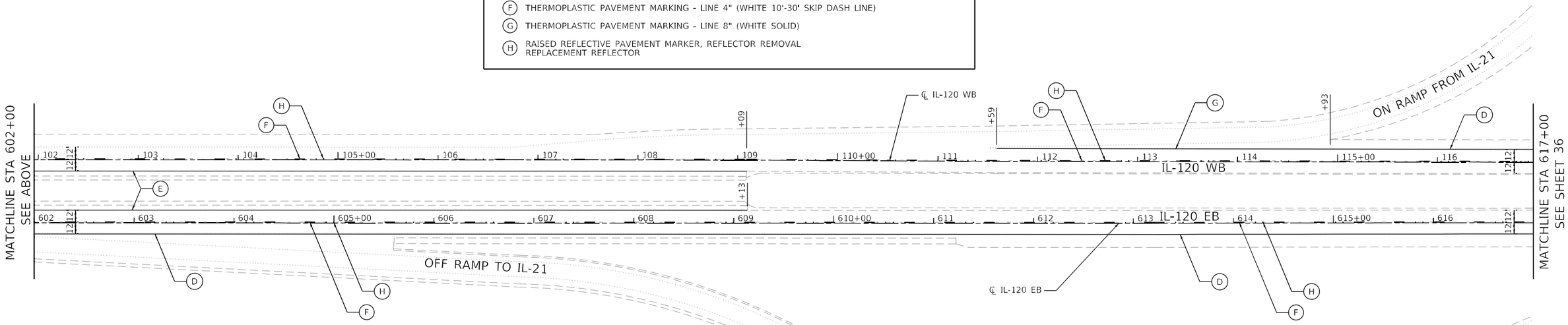
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0 50 100 150
SCALE IN FEET

PAVEMENT MARKING LEGEND

- (A) MODIFIED URETHANE PAVEMENT MARKING - LINE 4" (WHITE SOLID)
- (B) MODIFIED URETHANE PAVEMENT MARKING - LINE 4" (YELLOW SOLID)
- (C) PREFORMED PLASTIC PAVEMENT MARKING - TYPE D - LINE 7" (1.5" BLACK, 4" WHITE, 1.5" BLACK) GROOVING FOR RECESSED PAVEMENT MARKING 8"
- (D) THERMOPLASTIC PAVEMENT MARKING - LINE 4" (WHITE SOLID)
- (E) THERMOPLASTIC PAVEMENT MARKING - LINE 4" (YELLOW SOLID)
- (F) THERMOPLASTIC PAVEMENT MARKING - LINE 4" (WHITE 10'-30' SKIP DASH LINE)
- (G) THERMOPLASTIC PAVEMENT MARKING - LINE 8" (WHITE SOLID)
- (H) RAISED REFLECTIVE PAVEMENT MARKER, REFLECTOR REMOVAL REPLACEMENT REFLECTOR



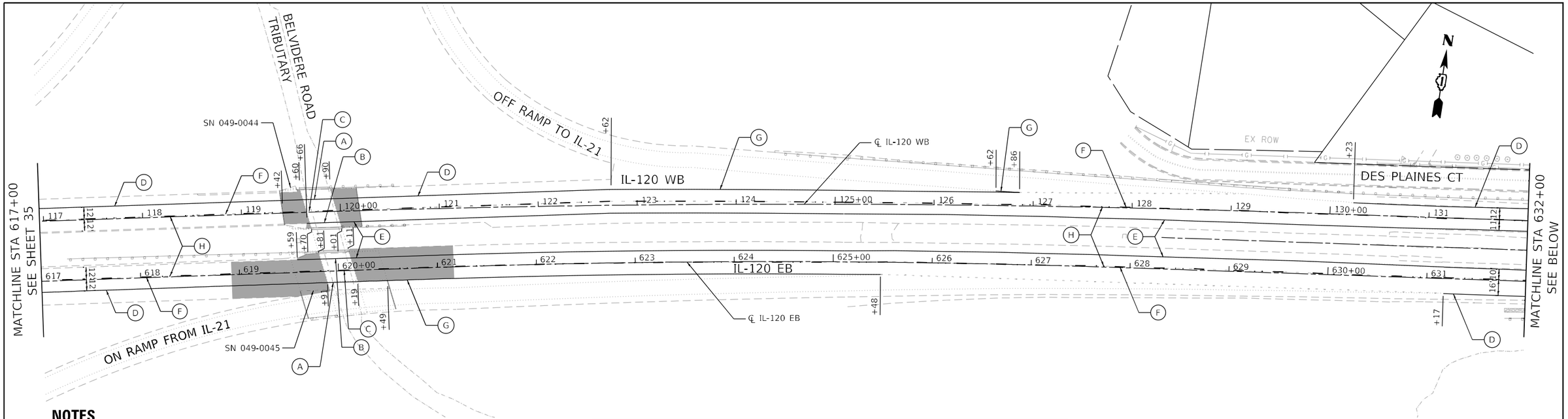
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Accurate GROUP, INC.

USER NAME = Jdavis	DESIGNED - JJD	REVISED -	**STATE OF ILLINOIS**	**PAVEMENT MARKING PLAN**
	DRAWN - JS	REVISED -	**DEPARTMENT OF TRANSPORTATION**	**ILLINOIS ROUTE 120 OVER DES PLAINES RIVER**
PLOT SCALE = 100.0010 ' / in.	CHECKED - JJD	REVISED -		SCALE: 1"=50' | SHEET 2 OF 4 SHEETS | STA. TO STA.
PLOT DATE = 8/28/2023	DATE - 06/20/2023	REVISED -		

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0333	2021-071-BDR	LAKE	131	35
		CONTRACT NO. 62P09		
	ILLINOIS | FED. AID PROJECT			



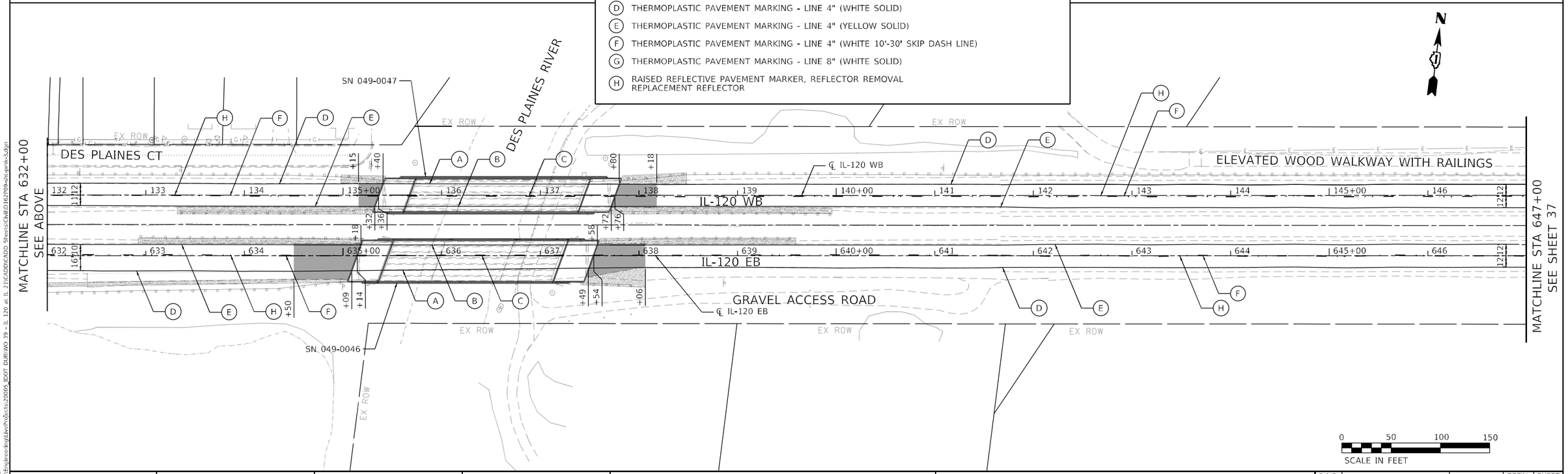
NOTES

1. GROOVED PREFORMED PLASIC PAVEMENT MARKINGS, TYPE D SHALL BE INSTALLED FOR ALL LANE LINES ON BRIDGE DECK AND PCC BRIDGE APPROACH PAVEMENT.
2. RAISED REFLECTIVE PAVEMENT MARKERS SHALL NOT BE INSTALLED WITHIN BRIDGE LIMITS.

PAVEMENT MARKING LEGEND

- (A) MODIFIED URETHANE PAVEMENT MARKING - LINE 4" (WHITE SOLID)
- (B) MODIFIED URETHANE PAVEMENT MARKING - LINE 4" (YELLOW SOLID)
- (C) PREFORMED PLASTIC PAVEMENT MARKING - TYPE D - LINE 7" (1.5" BLACK, 4" WHITE, 1.5" BLACK) GROOVING FOR RECESSED PAVEMENT MARKING 8"
- (D) THERMOPLASTIC PAVEMENT MARKING - LINE 4" (WHITE SOLID)
- (E) THERMOPLASTIC PAVEMENT MARKING - LINE 4" (YELLOW SOLID)
- (F) THERMOPLASTIC PAVEMENT MARKING - LINE 4" (WHITE 10'-30' SKIP DASH LINE)
- (G) THERMOPLASTIC PAVEMENT MARKING - LINE 8" (WHITE SOLID)
- (H) RAISED REFLECTIVE PAVEMENT MARKER, REFLECTOR REMOVAL REPLACEMENT REFLECTOR

0 50 100 150
SCALE IN FEET



0 50 100 150
SCALE IN FEET

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Accurate GROUP, INC.

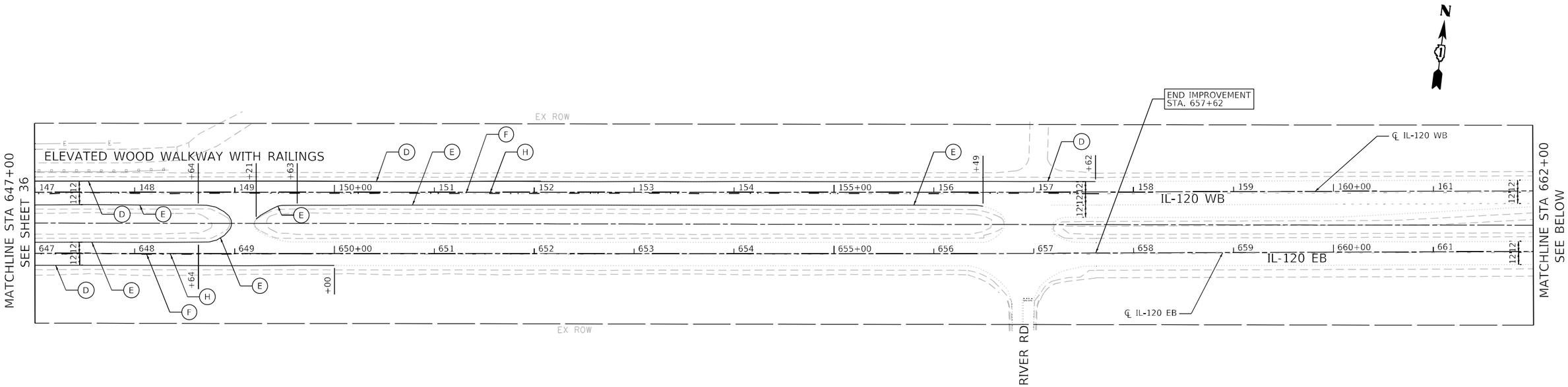
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING PLAN
ILLINIOIS ROUTE 120 OVER DES PLAINES RIVER

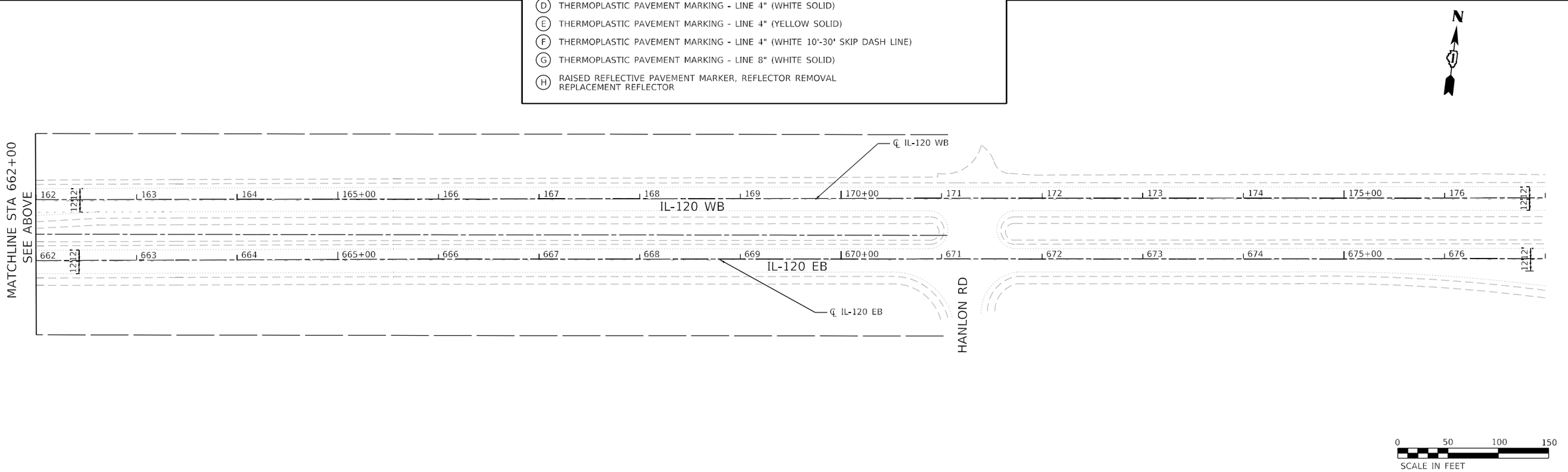
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0333	2021-071-BDR	LAKE	131	36
		CONTRACT NO. 62P09		
	ILLINOIS FED. AID PROJECT			



PAVEMENT MARKING LEGEND

- (A) MODIFIED URETHANE PAVEMENT MARKING - LINE 4" (WHITE SOLID)
- (B) MODIFIED URETHANE PAVEMENT MARKING - LINE 4" (YELLOW SOLID)
- (C) PREFORMED PLASTIC PAVEMENT MARKING - TYPE D - LINE 7" (1.5" BLACK, 4" WHITE, 1.5" BLACK) GROOVING FOR RECESSED PAVEMENT MARKING 8"
- (D) THERMOPLASTIC PAVEMENT MARKING - LINE 4" (WHITE SOLID)
- (E) THERMOPLASTIC PAVEMENT MARKING - LINE 4" (YELLOW SOLID)
- (F) THERMOPLASTIC PAVEMENT MARKING - LINE 4" (WHITE 10'-30' SKIP DASH LINE)
- (G) THERMOPLASTIC PAVEMENT MARKING - LINE 8" (WHITE SOLID)
- (H) RAISED REFLECTIVE PAVEMENT MARKER, REFLECTOR REMOVAL REPLACEMENT REFLECTOR



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Accurate GROUP, INC.	USER NAME = jdavis	DESIGNED - JJD	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PAVEMENT MARKING PLAN ILLINIOIS ROUTE 120 OVER DES PLAINES RIVER
		DRAWN - JS	REVISED -		
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	PLOT DATE = 8/28/2023	DATE - 06/20/2023	REVISED -		

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0333	2021-071-BDR	LAKE	131	37
		CONTRACT NO. 62P09		
	ILLINOIS FED. AID PROJECT			

EROSION CONTROL AND LANDSCAPING NOTES

1. ALL ESC MEASURES WILL BE MAINTAINED IN ACCORDANCE WITH THE IDOT EROSION AND SEDIMENT CONTROL FIELD GUIDE FOR CONSTRUCTION INSPECTION FOUND ON THE CONSTRUCTION TAB AT:(HTTP://WWW.IDOT.ILLINOIS.GOV/TRANSPORTATION-SYSTEM/ENVIRONMENT/EROSION-AND-SEDIMENT-CONTROL)

2. THE CONTRACTOR WILL ASSUME RESPONSIBILITY FOR MAINTENANCE OF ALL SOIL EROSION CONTROL DURING CONSTRUCTION.

3 THE CONTRACTOR SHALL CHECK ALL ESC MEASURES WEEKLY AND AFTER EACH RAINFALL, 0.5 INCHES OR GREATER IN A 24 HOUR PERIOD, OR EQUIVALENT SNOWFALL ADDITIONALLY DURING WINTER MONTHS, ALL MEASURES SHOULD BE CHECKED BY THE CONTRACTOR AFTER EACH SIGNIFICANT SNOW MELT.

4. THE CONTRACTOR SHOULD PROVIDE THE ENGINEER WITH THAT SHOWS A PLAN THAT A STABILIZED FLOW LINE WILL BE PROVIDED DURING STORM SEWER CONSTRUCTION.THE USE OF A STABILIZED FLOW LINE BETWEEN INSTALLED STORM SEWER AND OPEN DISTURBANCE WILL REDUCE THE POTENTIAL FOR THE OFF SITE DISCHARGE OF SEDIMENT-BEARING WATERS, ESPECIALLY WHEN RAIN IS FORECASTED, SO THAT FLOW WILL NOT ERODE. LACK OF APPROVED PLAN OR FAILURE TO COMPLY WILL RESULT IN AN ESC DEFICIENCY DEDUCTION. THIS WORK WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE CONSIDERED AS INCLUDED IN THE STORM SEWER PAY ITEMS.

5 ANY LOOSE MATERIAL DEPOSITED IN THE FLOW LINE OF DRAINAGE STRUCTURES, WHICH OBSTRUCTS THE NATURAL FLOW OF WATER, SHALL BE REMOVED AT THE CLOSE OF EACH WORKING DAY. PRIOR TO ACCEPTANCE OF THE IMPROVEMENT, ALL DRAINAGE STRUCTURES SHALL BE FREE OF DIRT AND DEBRIS. THIS WORK WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE CONSIDERED AS INCIDENTAL.

6. TEMPORARY OR PERMANENT STABILIZATION SHALL BE INITIATED IMMEDIATELY UPON COMPLETION OF DISTURBANCE OR IF THE WORK AREA IS TO BE LEFT UNDISTURBED FOR 14 DAYS OR MORE.

7. UNDER NO CIRCUMSTANCES SHALL THE CONTRACTOR PROLONG FINAL GRADING AND SHAPING SO THAT THE ENTIRE PROJECT CAN BE PERMANENTLY SEEDED AT ONE TIME.

8. EROSION CONTROL ITEMS ARE CONSIDERED TO BE A HIGH PRIORITY ON THIS CONTRACT. THE CONTRACTOR IS RESPONSIBLE FOR INSTALLATION OF ANY ADDITIONAL EROSION CONTROL MEASURES NECESSARY TO PREVENT EROSION AND SEDIMENTATION AS DETERMINED BY THE ENGINEER.

9. "WETLANDS EXCLUSION FENCING AND WETLANDS NO INTRUSION" SIGNAGE SHOULD ALSO BE PROVIDED AT THE BOUNDARY OF ALL UN-IMPACTED WETLANDS AND/OR WOUS. THE CONTRACTOR CAN BORROW THE SIGNS FROM THE BUREAU OF MAINTENANCE.

10. IF WETLANDS ARE UNDER WATER, PERIMETER EROSION BARRIER MAY BE INSUFFICIENT FOR PROMOTING WATER QUALITY. PER NOTE 8, THE CONTRACTOR WILL BE RESPONSIBLE FOR DETERMING A SUITABLE ALTERNATIVE FOR PROMOTING WATER QUALITY AND THIS WORK SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT.

11. ALL WORK ASSOCIATED WITH INSTALLATION AND MAINTENANCE OF STABILIZED CONSTRUCTION ENTRANCES AND CONCRETE WASHOUTS ARE INCIDENTAL TO THE CONTRACT.

12. MULCH METHOD 2 SHOULD BE APPLIED TO SLOPES FOR TEMPORARY STABILIZATION PRIOR TO SEASONS WHEN TEMPORARY SEED WILL NOT GERMINATE. USE MULCH METHOD 2 IN LIEU OF TEMPARORY EROSION CONTROL BLANKET.

13. REFER TO STRUCTURAL PLANS FOR WATERWAY INFORMATION TABLE FOR 2 YEAR STORM INFORMATION FOR THE COFFERDAM.

14. THIS PROJECT REQUIRES A US ARMY CORPS OF ENGINEERS (USAGE) 404 PERMIT THAT WILL BE SECURED BY THE DEPARTMENT. AS A CONDITION OF THIS PERMIT, THE CONTRACTOR WILL NEED TO SUBMIT AN IN-STREAM WORK PLAN TO THE DEPARTMENT FOR APPROVAL. GUIDELINES ON ACCEPTABLE IN-STREAM WORK TECHNIQUES CAN BE FOUND ON THE USACE WEBSITE. THE USACE DEFINES AND DETERMINES IN-STREAM WORK. THE COST OF ALL MATERIALS AND LABOR NECESSARY TO COMPLY WITH THE ABOVE PROVISIONS TO PREPARE AND IMPLEMENT AN IN-STREAM WORK PLAN WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED AS INCLUDED IN THE UNIT BID PRICES OF THE CONTRACT AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED WITH THE EXCEPTION OF COFFERDAMS WHICH WILL BE PAID FOR AS COFFERDAM (TYPE 1) (IN-STREAM/WETLAND WORK) WITH A BASIS OF PAYMENT OF EACH.

15. THE CONTRACTOR SHALL ATTACH AN ALUMINUM SIGN WITH THE FOLLOWING TEXT: PROTECTED WETLAND-NO INTRUSION. THE SIGN(S) SHALL BE ATTACHED TO THE STAKES BY A METHOD APPROVED BY THE ENGINEER. THE SIGN(S) WILL BE PROVIDED BY THE DEPARTMENT AND SHALL BE PICKED UP BY THE CONTRACTOR FROM THE DISTRICT ONE ROADSIDE DEVELOPMENT ARCHITECT IN SCHAUMBURG, ILLINOIS. SCHEDULING THE PICKUP OF THE SIGNS CAN BE ARRANGED BY CONTACTING THE DISTRICT ONE ROADSIDE DEVELOPMENT UNIT AT (847)705-4171. WHEN WORK HAS BEEN COMPLETED, THE SIGN SHALL BE RETURNED TO THE DISTRICT ONE ROADSIDE DEVELOPMENT UNIT. THE COST OF PICKING UP, ATTACHING THE SIGNS TO THE TEMPORARY FENCE STAKES, AND RETURNING THE SIGNS WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR TEMPORARY FENCE.

16. THE CONTRACTOR WILL CONTACT THE ROADSIDE DEVELOPMENT UNIT AT 847.705.4171, AT LEAST 7 DAYS PRIOR TO PLANTING FOR LAYOUT APPROVAL OF THE SEEDING, TREES, SHRUBS, AND PLUGS.

17. SEEDING DATES FOR BARE EARTH SEEDING OF MIXTURE CLASS 4 (MODIFIED) AND 5A (MODIFIED) SHALL BE FROM OCTOBER 15 TO MAY 15.

18. THE DEPARTMENT HAS NOT OBTAINED ANY PERMITS FOR OFFSITE BORROW, WASTE, USE (BWU) AREAS. PRIOR TO WORKING IN BWU AREAS, IF THE CONTRACTOR CHOOSES TO USE ACTIVITIES REQUIRING PERMITS IT IS THE CONTRACTOR'S RESPONSIBILITY TO SECURE THE PROPER PERMITS. IN ADDITION TO THE BORROW REVIEW (BDE 2289) AND USE/WASTE REVIEW (BDE 2290) SUBMITTAL'S, THE CONTRACTOR SHALL SUBMIT AN EROSION AND SEDIMENT CONTROL (ESC) PLAN FOR EVERY BWU SITE TO THE DEPARTMENT FOR ACCEPTANCE. GUIDELINES FOR ACCEPTABLE BWU PRACTICES CAN BE FOUND IN SECTION II.G.1 AND 2 OF THE SWPPP. THE COST OF ALL MATERIALS AND LABOR NECESSARY TO COMPLY WITH ABOVE PROVISIONS TO PREPARE AND IMPLEMENT ESC PLANS WILL NOT BE PAID FOR SEPRATELY, BUT SHALL BE CONSIDERED AS INCLUDED IN THE UNIT BID PRICES OF THE CONTACT AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

19. PRIOR TO COMMENCEMENT OF ANY IN-STREAM WORK, YOU SHALL SUBMIT CONSTRUCTION PLANS AND A DETAILED NARRATIVE TO THIS OFFICE THAT DISCLOSE THE CONTRACTOR'S PREFERRED METHOD OF COFFERDAM AND DEWATERING METHOD.

20. WORK IN THE WATERWAY SHOULD BE TIMED TO TAKE PLACE DURING LOW OR NO-FLOW CONDITIONS, LOW FLOW CONDITIONS ARE FLOW AT OR BELOW THE NORMAL WATER ELEVATION.

21. THE PLAN WILL BE DESIGNED TO ALLOW FOR THE CONVEYANCE OF THE 2-YEAR PEAK FLOW PAST THE WORK AREA WITHOUT OVERTOPPING THE COFFERDAM. THE CORPS HAS THE DISCRETION TO REDUCE THIS REQUIREMENT IF DOCUMENTED BY THE APPLICANT TO BE INFEASIBLE OR UNNECESSARY.

22. WATER SHALL BE ISOLATED FROM THE IN-STREAM WORK AREA USING A COFFERDAM CONSTRUCTED OF NON-ERODIBLE MATERIALS (STEEL SHEETS, AQUA BARRIERS, RIP RAP AND GEOTEXTILE LINER, ETC.) EARTHEN COFFERDAMS ARE NOT PERMISSIBLE.

23. THE COFFERDAM MUST BE CONSTRUCTED FROM THE UPLAND AREA AND NO EQUIPMENT MAY ENTER FLOWING WATER AT ANY TIME. IF THE INSTALLATION OF THE COFFERDAM CANNOT BE COMPLETED FROM SHORE AND ACCESS IS NEEDED TO REACH THE AREA TO BE COFFERED, OTHER MEASURES, SUCH AS THE CONSTRUCTION OF A CAUSEWAY, WILL BE NECESSARY. TO ENSURE THAT EQUIPMENT DOES NOT ENTER THE WATER. ONCE THE COFFERDAM IS IN PLACE AND THE ISOLATED AREA IS DEWATERED, EQUIPMENT MAY ENTER THE COFFERED AREA TO PERFORM THE REQUIRED WORK.

24. COFFERDAM (TYPE1) LOCATION- STRUCTURE NO.049 0044
COFFERDAM (TYPE1) LOCATION- STRUCTURE NO.049 0045
COFFERDAM (TYPE1) LOCATION- STRUCTURE NO.049 0053

CONSTRUCTION SEQUENCING

THE FOLLOWING IS A DESCRIPTION OF THE INTENDED GENERAL SEQUENCE OF APPLICABLE CONSTRUCTION WHICH WILL DISTURB SOILS ON THE PROJECT.

PRE-STAGE

TEMPORARY CROSSOVER PAVEMENT WILL BE INSTALLED IN THE MEDIAN OF IL 120.
INSTALL TEMPORARY EROSION AND SEDIMENT CONTROL AND SEDIMENT CONTROL (SESC MEASURES)

STAGE 1
A.) CONSTRUCTION WILL UTILIZE A WORK ZONE ON THE EB BRIDGE IL 120 OVER THE DES PLAINES RIVER AND EB BRIDGE IL 120 OVER THE BELVIDERE CREEK.
B.) PRE-STAGE SESC MEASURES REMAIN IN PLACE.
C.) APPLY WEED CONTROL, BROADLEAF IN TURF AND INTERSEEDING WITH SEEDING CLASS 4 (MODIFIED) TO THE MEDIAN FROM STA. 30+00 TO STA. 101+00 , STA.106+00 TO STA. 142+00 AND STA. 151+00 TO STA. 206+00

STAGE 2
A.) THE SECOND STAGE OF CONSTRUCTION WILL UTILIZE A WORK ZONE ON THE WB BRIDGE IL 120 OVER THE DES PLAINES RIVER AND WB BRIDGE IL 120 OVER THE BELVIDERE CREEK.
B.) PRE-STAGE SESC MEASURES REMAIN IN PLACE.

FINAL
INSTALL TOPSOIL 12", SEEDING CLASS 4 (MODIFIED), CLASS 5A (MODIFIED) AND ECB (SPECIAL) TO DISTURBED AREAS.

OTHER ITEMS
DITCH CHECKS SHOULD BE REMOVED AND REPLACED TO ACCOMMODATE RE-GRADING OF THE DITCHES.
SEE MOT PLANS FOR PROPOSED DITCH GRADING.

NOTE

TEMPORARY EROSION CONTROL SEEDING AND MULCH METHOD 2 SHOWN ON THIS SHEET FOR WORK AREA SHALL BE INSTALLED AFTER THE SLOPE WALL IS REPAIRED.

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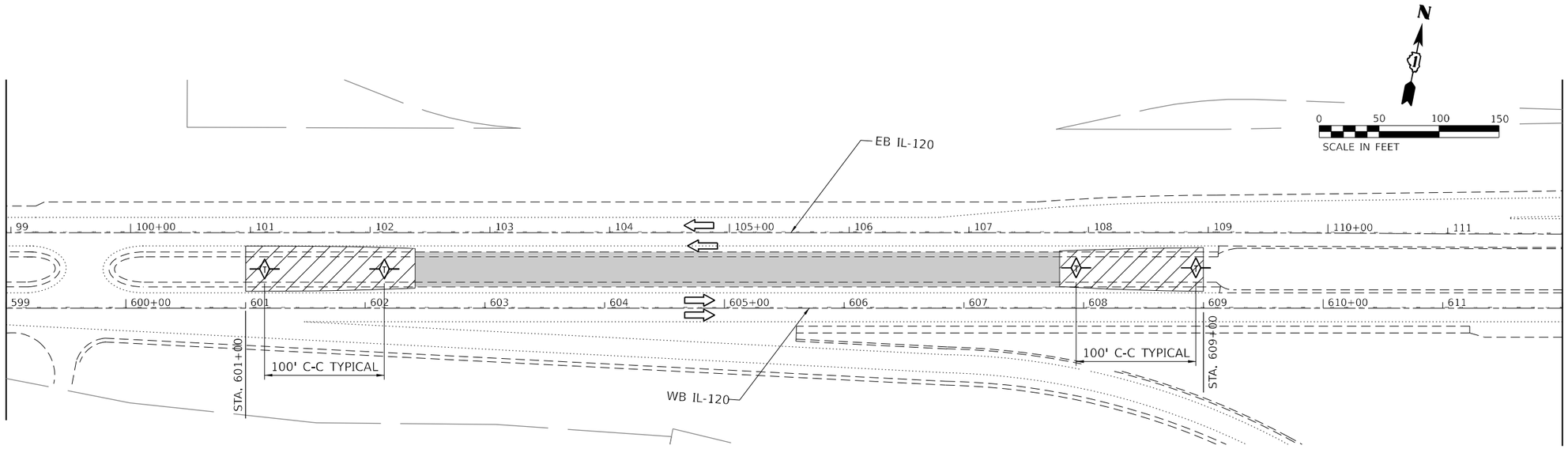
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL NOTES
ILLINOIS ROUTE 120 OVER DES PLAINES RIVER

SCALE: NONE | SHEET 1 OF 1 SHEETS | STA. | TO STA.

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
333	2021-071-BDR	LAKE	131	38
		CONTRACT NO. 62P09		
	ILLINOIS FED. AID PROJECT			



LEGEND

- TEMPORARY PAVEMENT
- OTHER SURFACE WATERS (OSW)
- WEED CONTROL BROADLEAF (K0029618) & INTERSEEDING WITH SEEDING CLASS 4 (MODIFIED) (X1900002)
- TEMPORARY DITCH CHECKS (28000305)
- TEMPORARY EROSION CONTROL SEEDING AND MULCH METHOD 2 (28000250, 25100115)
- DOUBLE PERIMETER EROSION BARRIER (28000400)
- TOPSOIL EXCAVATION AND PLACEMENT (21101505) WITH SEEDING CLASS 4(MODIFIED) (X2501800) & EROSION CONTROL BLANKET(SPECIAL) (X2511630)
- TOPSOIL EXCAVATION AND PLACEMENT (21101505)12" WITH SEEDING CLASS 4 (MODIFIED) & SEEDING CLASS 5A (MODIFIED) WITH EROSION CONTROL BLANKET(SPECIAL) (X2501800, X2500322, X2511630)
- DIRECTION OF FLOW
- EXISTING/PROPOSED CONTOUR LINE
- DIRECTION OF TRAFFIC

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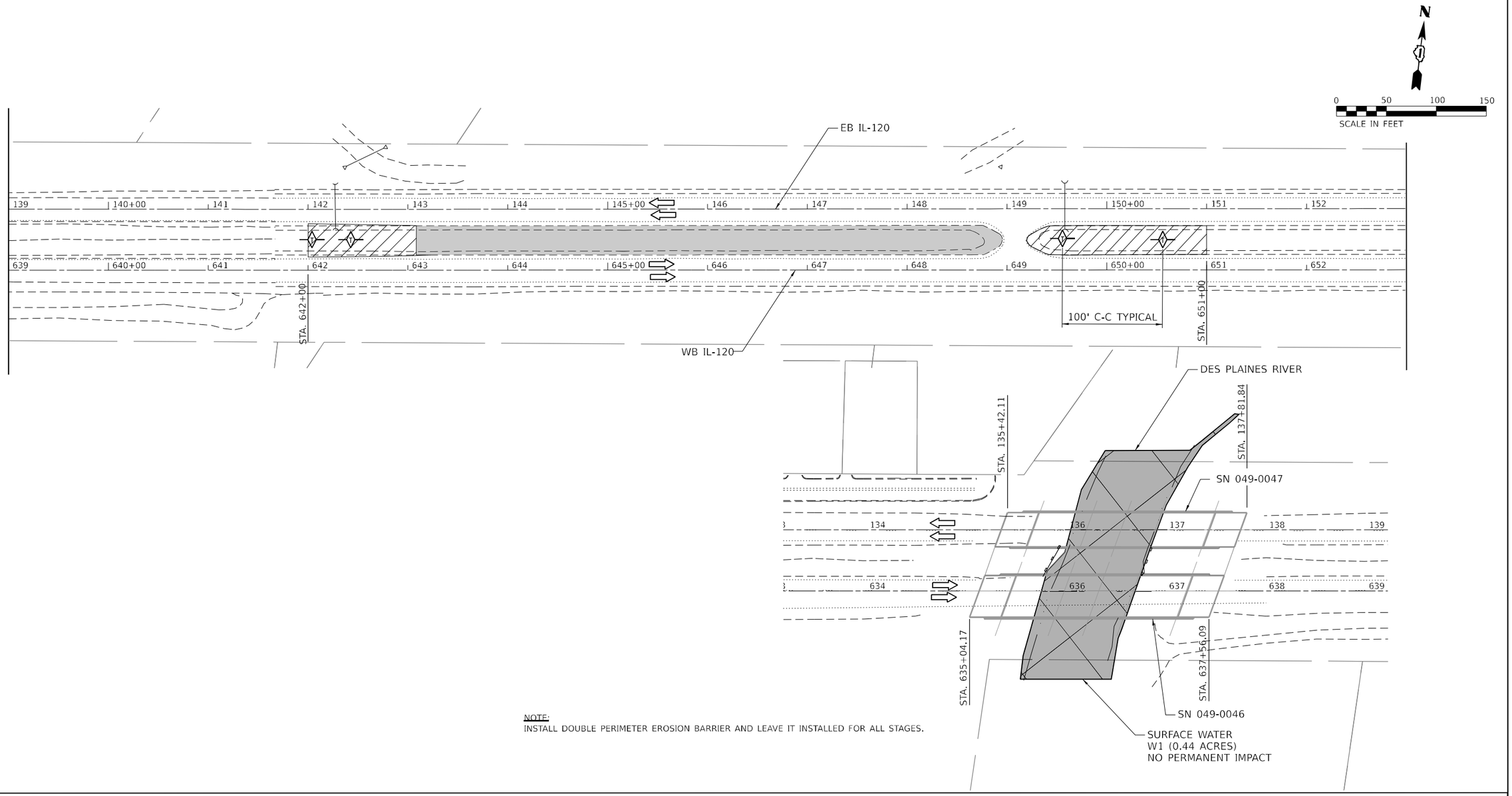
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PRE-STAGE LANDSCAPING AND EROSION CONTROL 1 OF 2
ILLINOIS ROUTE 120 OVER DES PLAINES RIVER

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

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
333	2021-071-BDR	LAKE	131	39
		CONTRACT NO. 62P09		
	ILLINOIS	FED. AID PROJECT		

MODEL: $MODELNAME$
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NOTE:
INSTALL DOUBLE PERIMETER EROSION BARRIER AND LEAVE IT INSTALLED FOR ALL STAGES.

LEGEND

- TEMPORARY PAVEMENT
- OTHER SURFACE WATERS (OSW)
- WEED CONTROL BROADLEAF (K0029618) & INTERSEEDING WITH SEEDING CLASS 4 (MODIFIED) (X1900002)
- TEMPORARY DITCH CHECKS (28000305)
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- DIRECTION OF FLOW
- EXISTING/PROPOSED CONTOUR LINE
- DIRECTION OF TRAFFIC

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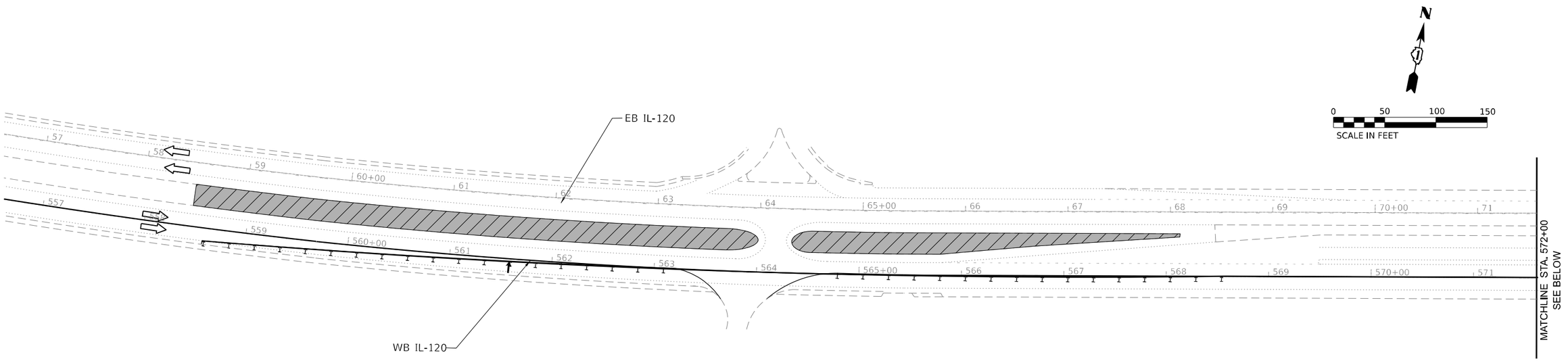
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PRE-STAGE LANDSCAPING AND EROSION CONTROL 2 OF 2
ILLINOIS ROUTE 120 OVER DES PLAINES RIVER

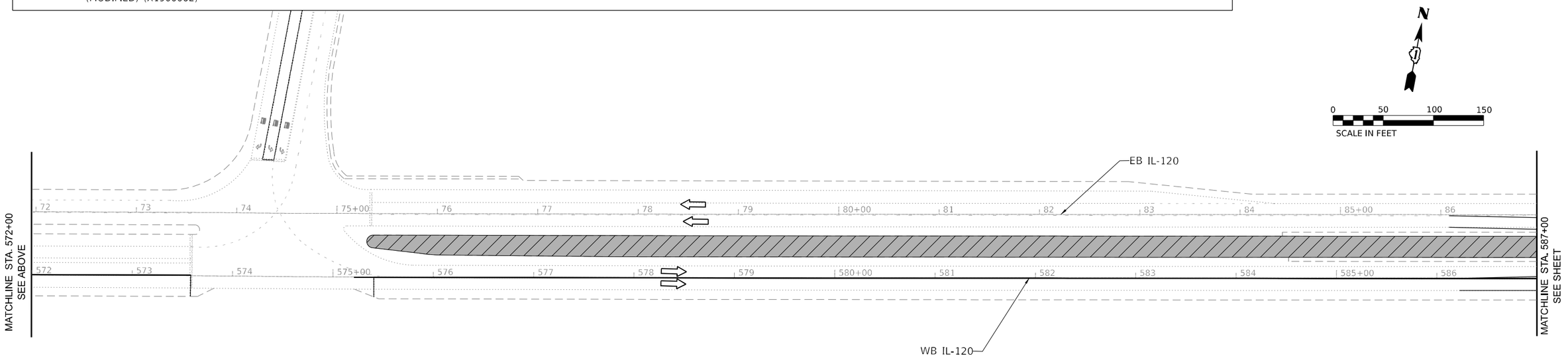
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F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
333	2021-071-BDR	LAKE	131	40
		CONTRACT NO. 62P09		
	ILLINOIS	FED. AID PROJECT		



LEGEND

- TEMPORARY PAVEMENT
- OTHER SURFACE WATERS (OSW)
- WEED CONTROL BROADLEAF (K0029618) & INTERSEEDING WITH SEEDING CLASS 4 (MODIFIED) (X1900002)
- TEMPORARY DITCH CHECKS (28000305)
- TEMPORARY EROSION CONTROL SEEDING AND MULCH METHOD 2 (28000250, 25100115)
- DOUBLE PERIMETER EROSION BARRIER (28000400)
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- DIRECTION OF FLOW
- EXISTING/PROPOSED CONTOUR LINE
- DIRECTION OF TRAFFIC



MODEL: $MODELNAME$
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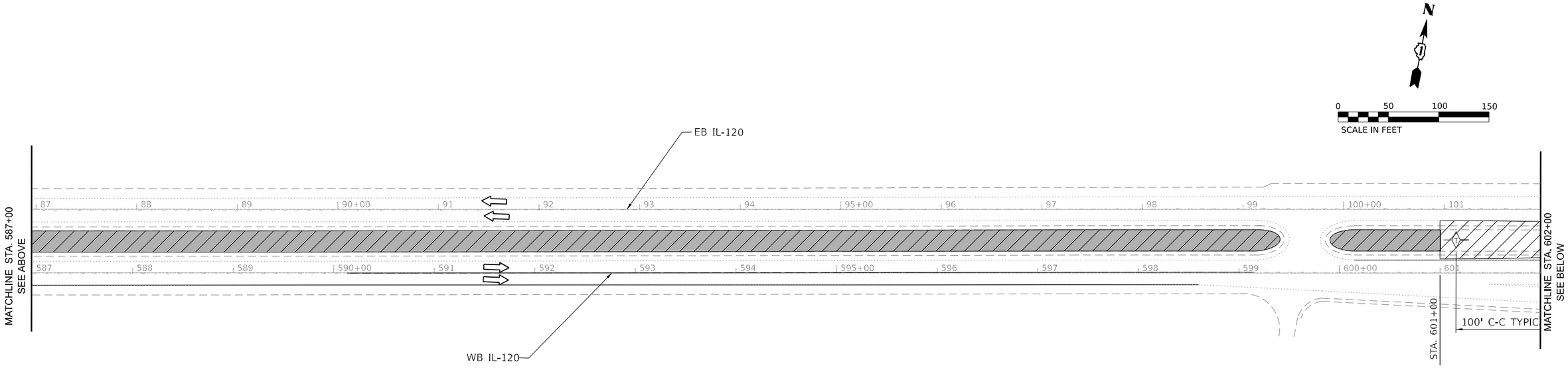
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PLOT DATE = 8/28/2023	DATE - 06-14-2023	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STAGE 1 LANDSCAPING AND EROSION CONTROL 1 OF 5
ILLINOIS ROUTE 120 OVER DES PLAINES RIVER

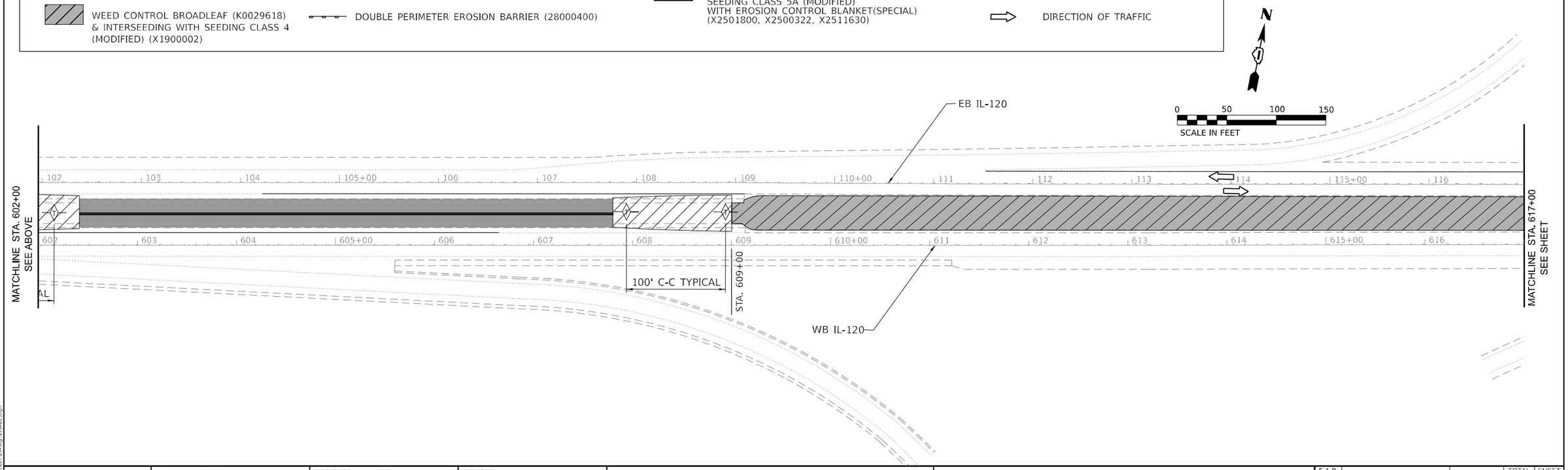
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F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
333	2021-071-BDR	LAKE	131	41
		CONTRACT NO. 62P09		
	ILLINOIS FED. AID PROJECT			



LEGEND

- TEMPORARY PAVEMENT
- OTHER SURFACE WATERS (OSW)
- WEED CONTROL BROADLEAF (K0029618) & INTERSEEDING WITH SEEDING CLASS 4 (MODIFIED) (X1900002)
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- DIRECTION OF FLOW
- EXISTING/PROPOSED CONTOUR LINE
- DIRECTION OF TRAFFIC



MODEL: $MODELNAME$
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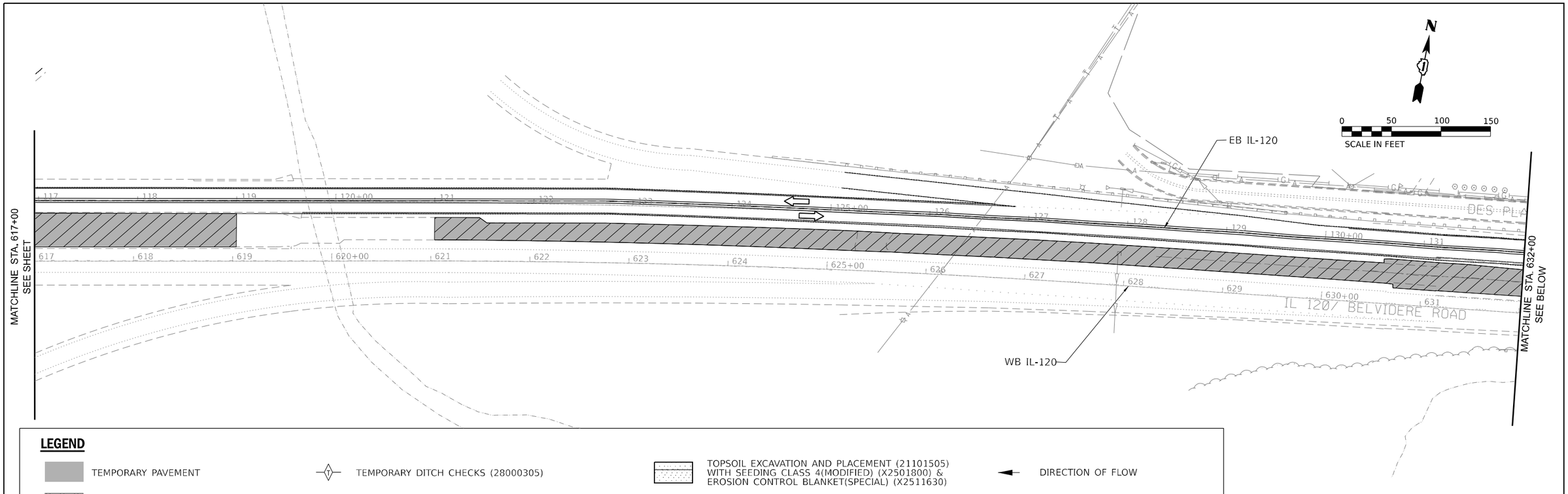
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STAGE 1 LANDSCAPING AND EROSION CONTROL 2 OF 5
ILLINOIS ROUTE 120 OVER DES PLAINES RIVER

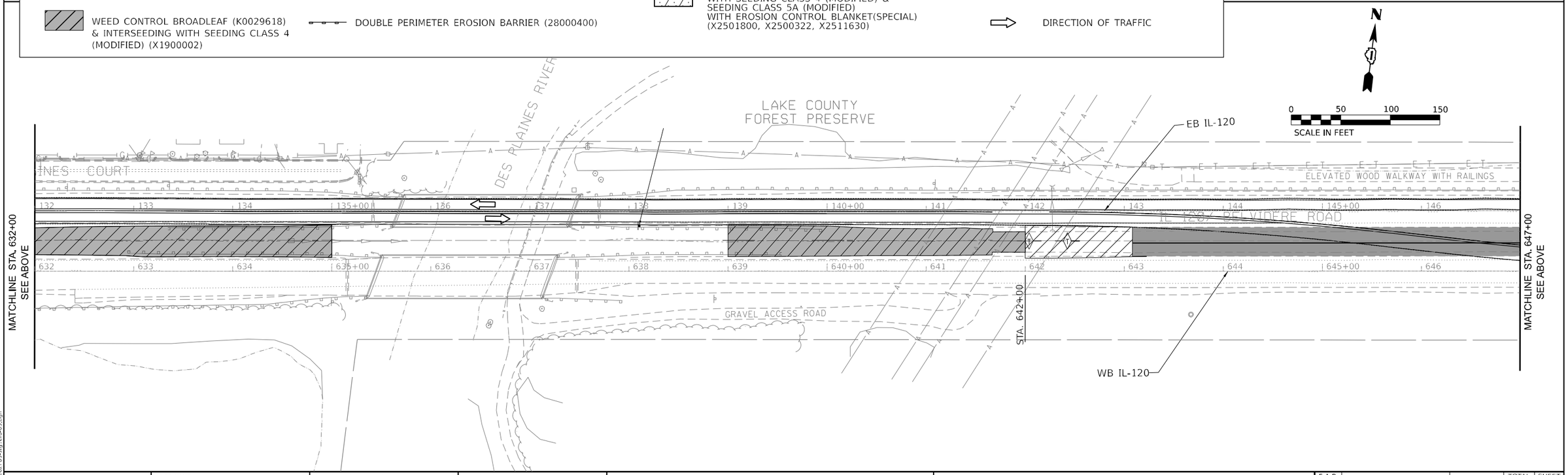
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F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
333	2021-071-BDR	LAKE	131	42
		CONTRACT NO. 62P09		
	ILLINOIS FED. AID PROJECT			



LEGEND

- TEMPORARY PAVEMENT
- OTHER SURFACE WATERS (OSW)
- WEED CONTROL BROADLEAF (K0029618) & INTERSEEDING WITH SEEDING CLASS 4 (MODIFIED) (X1900002)
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- TEMPORARY EROSION CONTROL SEEDING AND MULCH METHOD 2 (28000250, 25100115)
- DOUBLE PERIMETER EROSION BARRIER (28000400)
- TOPSOIL EXCAVATION AND PLACEMENT (21101505) WITH SEEDING CLASS 4(MODIFIED) (X2501800) & EROSION CONTROL BLANKET(SPECIAL) (X2511630)
- TOPSOIL EXCAVATION AND PLACEMENT (21101505)12" WITH SEEDING CLASS 4 (MODIFIED) & SEEDING CLASS 5A (MODIFIED) WITH EROSION CONTROL BLANKET(SPECIAL) (X2501800, X2500322, X2511630)
- DIRECTION OF FLOW
- EXISTING/PROPOSED CONTOUR LINE
- DIRECTION OF TRAFFIC



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AMES Engineering, Inc.
CONSULTING ENGINEERS
6330 Belmont Road, Suite 4B
Downers Grove, IL 60516

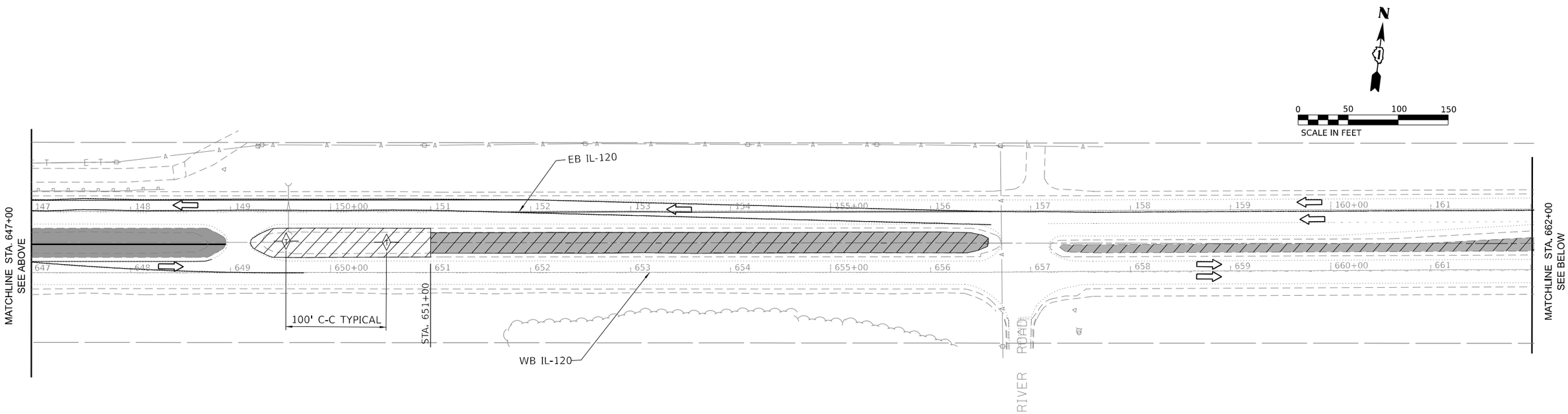
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STAGE 1 LANDSCAPING AND EROSION CONTROL 3 OF 5
ILLINOIS ROUTE 120 OVER DES PLAINES RIVER

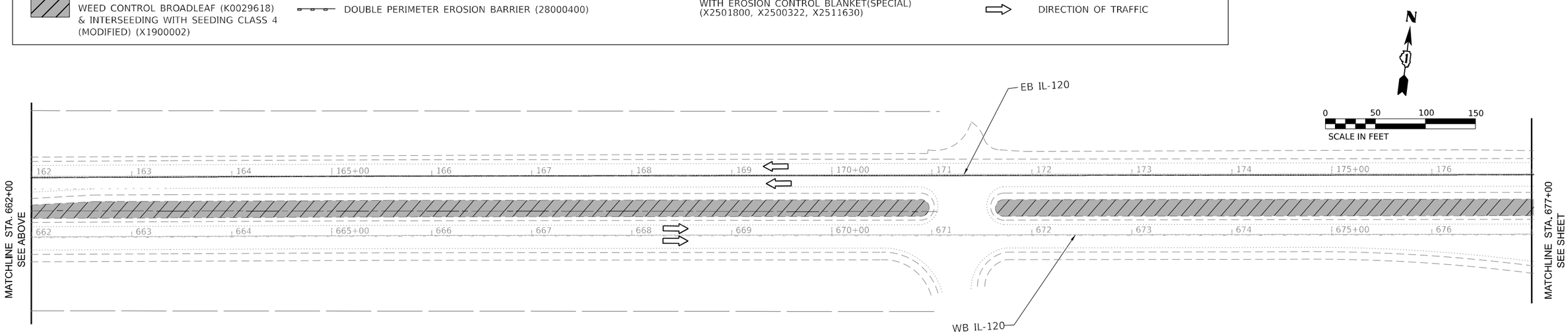
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333	2021-071-BDR	LAKE	131	43
		CONTRACT NO. 62P09		
	ILLINOIS FED. AID PROJECT			



LEGEND

- TEMPORARY PAVEMENT
- OTHER SURFACE WATERS (OSW)
- WEED CONTROL BROADLEAF (K0029618) & INTERSEEDING WITH SEEDING CLASS 4 (MODIFIED) (X1900002)
- TEMPORARY DITCH CHECKS (28000305)
- TEMPORARY EROSION CONTROL SEEDING AND MULCH METHOD 2 (28000250, 25100115)
- DOUBLE PERIMETER EROSION BARRIER (28000400)
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- DIRECTION OF FLOW
- EXISTING/PROPOSED CONTOUR LINE
- DIRECTION OF TRAFFIC



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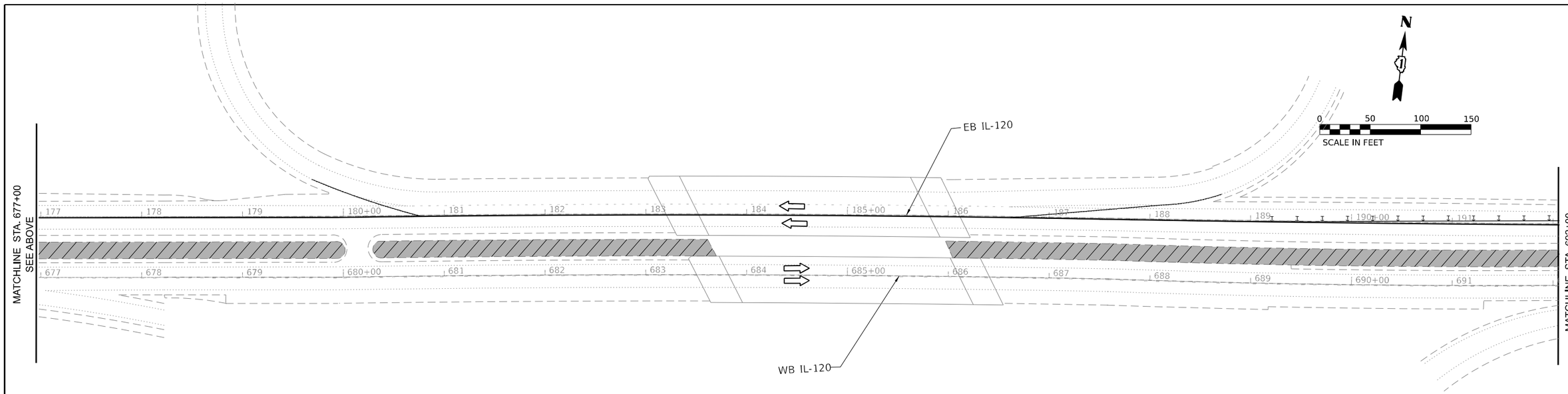
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STAGE 1 LANDSCAPING AND EROSION CONTROL 4 OF 5
ILLINOIS ROUTE 120 OVER DES PLAINES RIVER

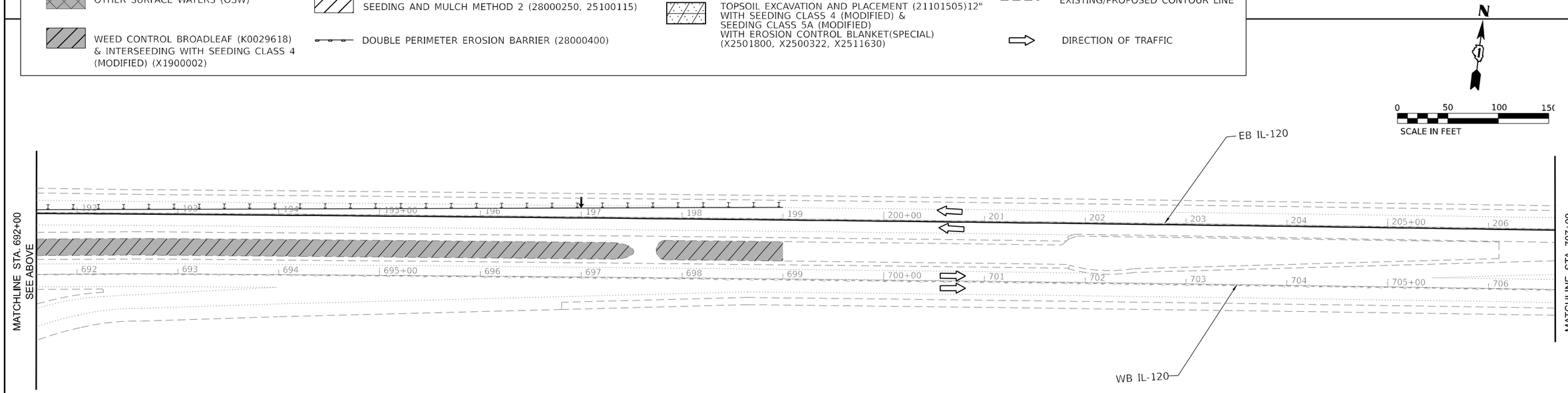
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		CONTRACT NO. 62P09		
	ILLINOIS FED. AID PROJECT			



LEGEND

- TEMPORARY PAVEMENT
- OTHER SURFACE WATERS (OSW)
- WEED CONTROL BROADLEAF (K0029618) & INTERSEEDING WITH SEEDING CLASS 4 (MODIFIED) (X1900002)
- TEMPORARY DITCH CHECKS (28000305)
- TEMPORARY EROSION CONTROL SEEDING AND MULCH METHOD 2 (28000250, 25100115)
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- DIRECTION OF FLOW
- EXISTING/PROPOSED CONTOUR LINE
- DIRECTION OF TRAFFIC



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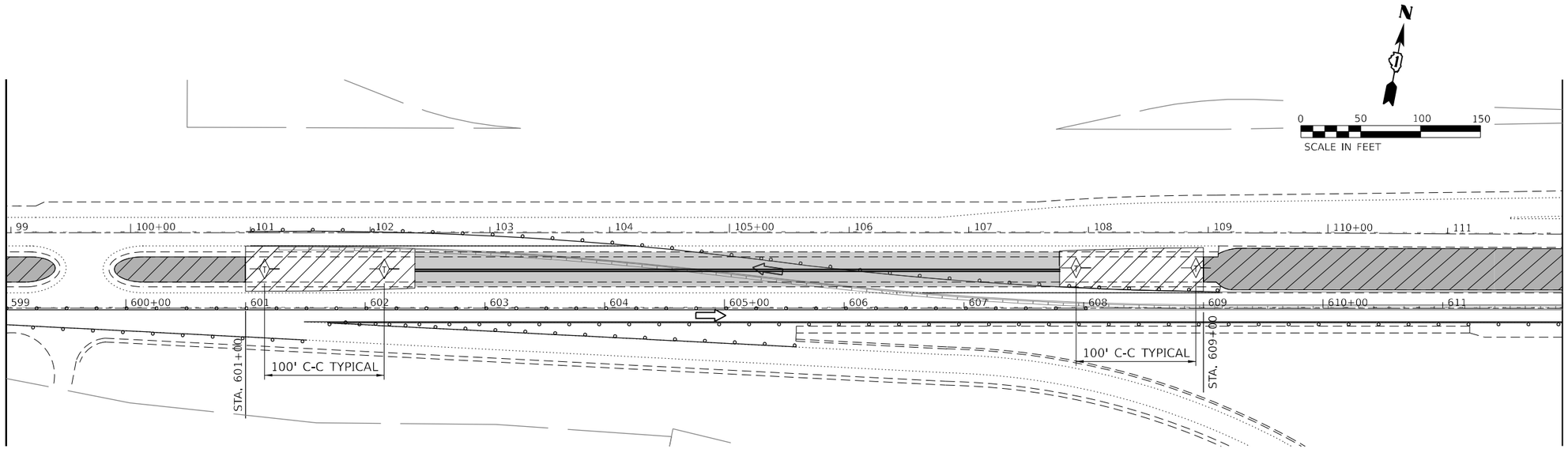
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STAGE 1 LANDSCAPING AND EROSION CONTROL 5 OF 5
ILLINOIS ROUTE 120 OVER DES PLAINES RIVER

SCALE: 1"=50' | SHEET OF SHEETS | STA. NONE | TO STA. NONE

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
333	2021-071-BDR	LAKE	131	45
		CONTRACT NO. 62P09		
	ILLINOIS FED. AID PROJECT			



LEGEND

- TEMPORARY PAVEMENT
- OTHER SURFACE WATERS (OSW)
- WEED CONTROL BROADLEAF (K0029618) & INTERSEEDING WITH SEEDING CLASS 4 (MODIFIED) (X1900002)
- TEMPORARY DITCH CHECKS (28000305)
- TEMPORARY EROSION CONTROL SEEDING AND MULCH METHOD 2 (28000250, 25100115)
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- DIRECTION OF FLOW
- EXISTING/PROPOSED CONTOUR LINE
- DIRECTION OF TRAFFIC

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USER NAME = msyed	DESIGNED - JAR	REVISED -
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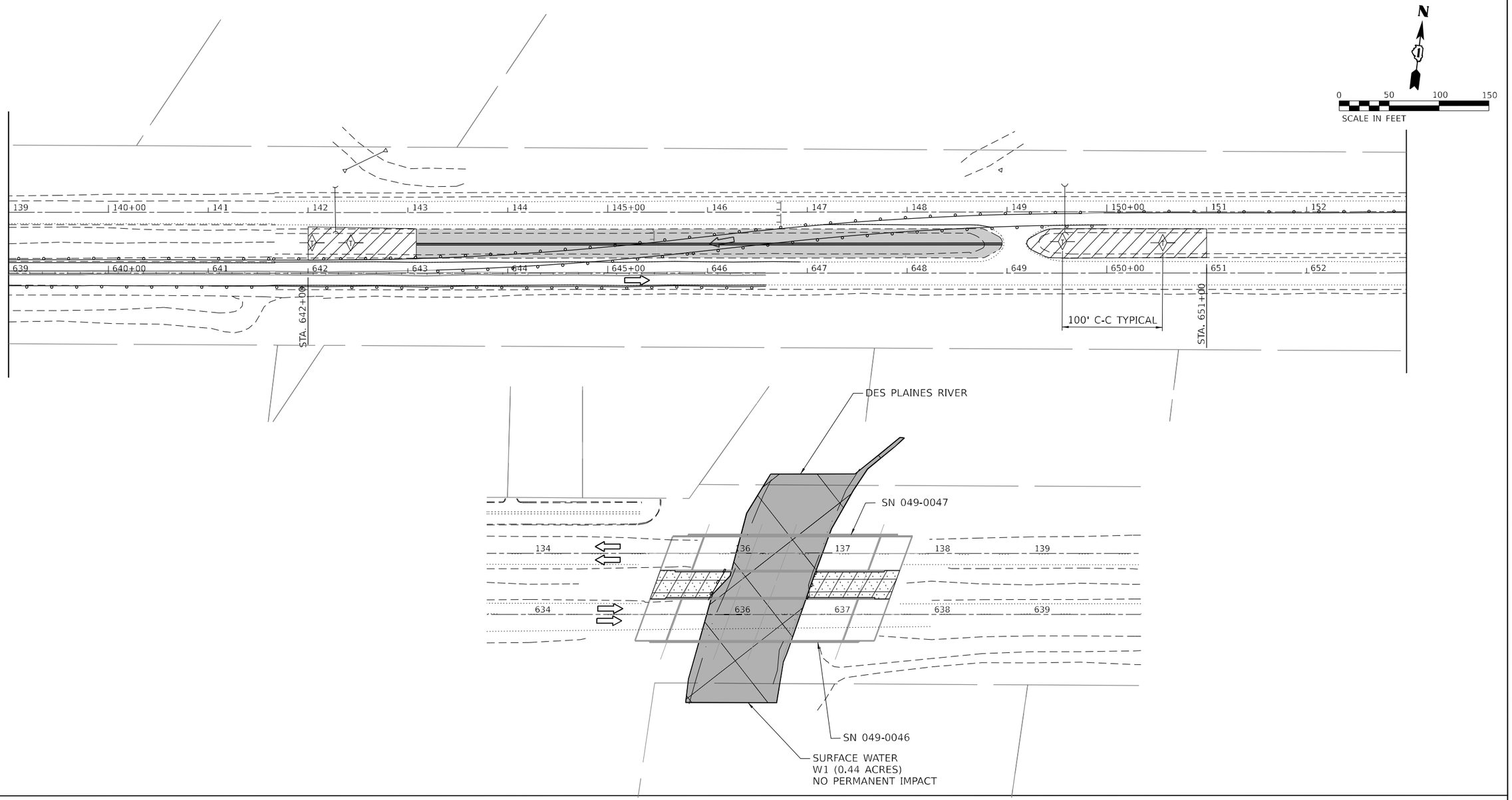
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STAGE 2 LANDSCAPING AND EROSION CONTROL 1 OF 2
ILLINOIS ROUTE 120 OVER DES PLAINES RIVER

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

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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	ILLINOIS	FED. AID PROJECT		

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LEGEND

- TEMPORARY PAVEMENT
- OTHER SURFACE WATERS (OSW)
- WEED CONTROL BROADLEAF (K0029618) & INTERSEEDING WITH SEEDING CLASS 4 (MODIFIED) (X1900002)
- TEMPORARY DITCH CHECKS (28000305)
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- DIRECTION OF FLOW
- EXISTING/PROPOSED CONTOUR LINE
- DIRECTION OF TRAFFIC

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Downers Grove, IL 60516

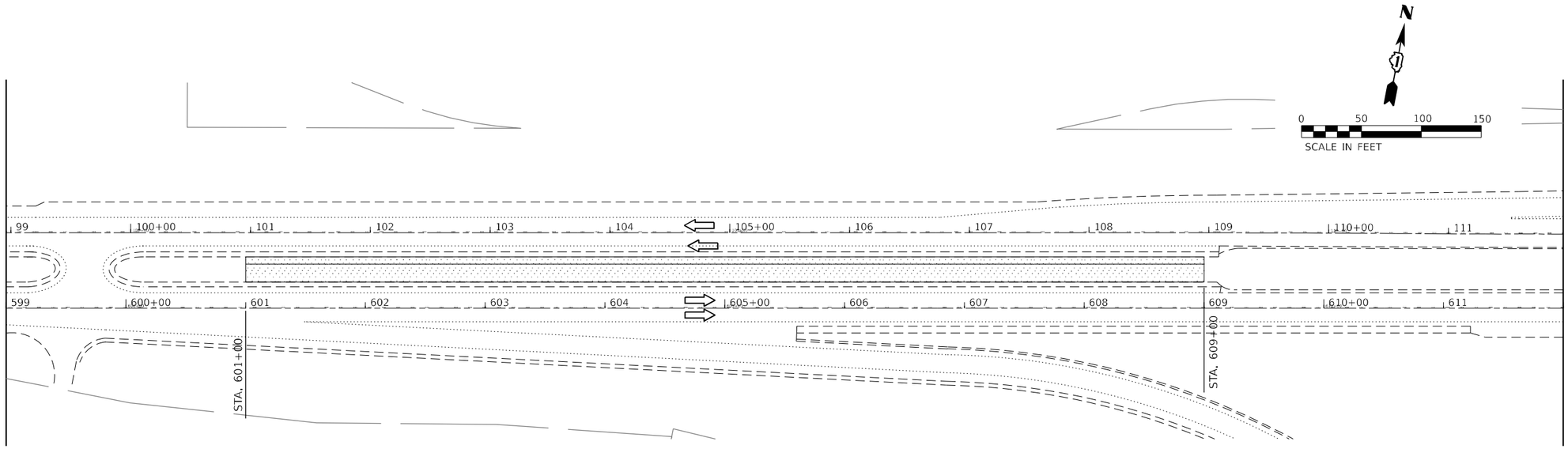
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STAGE 2 LANDSCAPING AND EROSION CONTROL 2 OF 2
ILLINOIS ROUTE 120 OVER DES PLAINES RIVER

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

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
333	2021-071-BDR	LAKE	131	47
		CONTRACT NO. 62P09		
	ILLINOIS	FED. AID PROJECT		



LEGEND

- TEMPORARY PAVEMENT
- OTHER SURFACE WATERS (OSW)
- WEED CONTROL BROADLEAF (K0029618) & INTERSEEDING WITH SEEDING CLASS 4 (MODIFIED) (X1900002)
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- DIRECTION OF FLOW
- EXISTING/PROPOSED CONTOUR LINE
- DIRECTION OF TRAFFIC

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Downers Grove, IL 60516

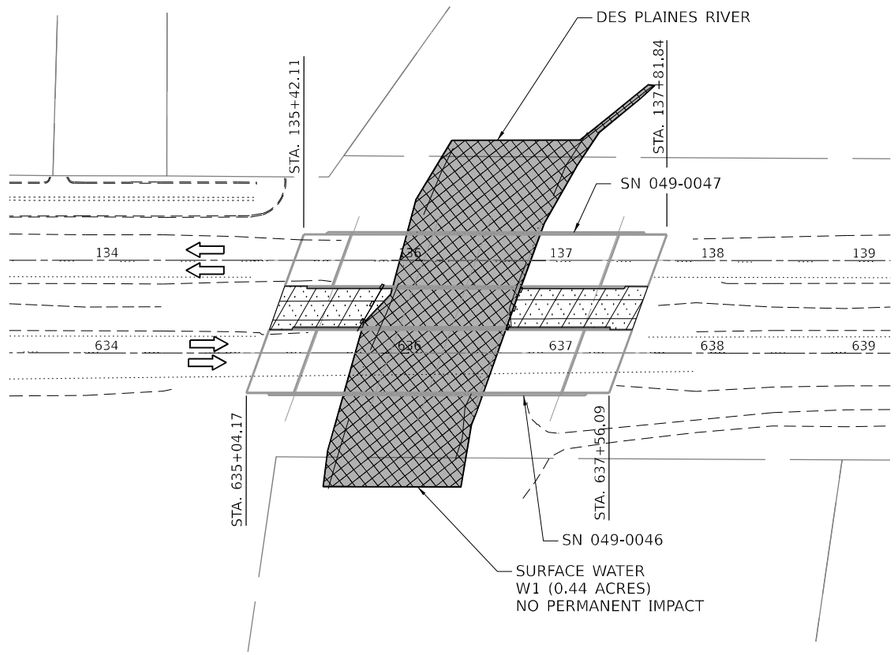
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LANDSCAPING AND EROSION CONTROL 1 OF 3
ILLINOIS ROUTE 120 OVER DES PLAINES RIVER

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

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
333	2021-071-BDR	LAKE	131	48
		CONTRACT NO. 62P09		
	ILLINOIS	FED. AID PROJECT		



N

0 50 100 150

SCALE IN FEET

LEGEND

- TEMPORARY PAVEMENT
- OTHER SURFACE WATERS (OSW)
- WEED CONTROL BROADLEAF (K0029618) & INTERSEEDING WITH SEEDING CLASS 4 (MODIFIED) (X1900002)
- TEMPORARY DITCH CHECKS (28000305)
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- DIRECTION OF FLOW
- EXISTING/PROPOSED CONTOUR LINE
- DIRECTION OF TRAFFIC

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Downers Grove, IL 60516

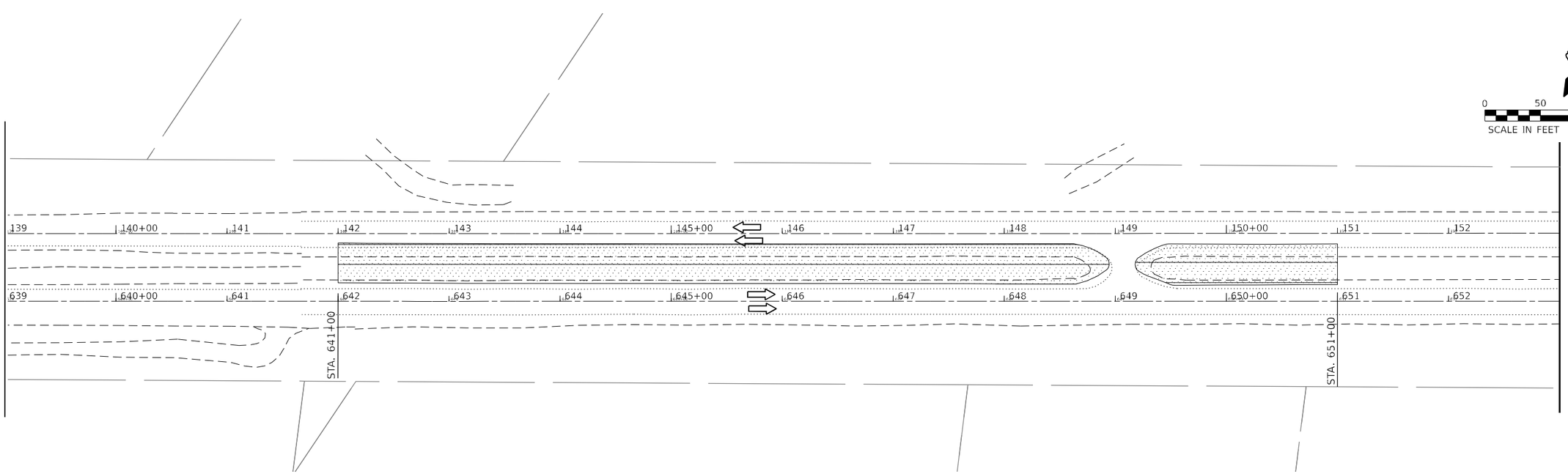
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LANDSCAPING AND EROSION CONTROL 2 OF 3
ILLINOIS ROUTE 120 OVER DES PLAINES RIVER

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

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
333	2021-071-BDR	LAKE	131	49
		CONTRACT NO. 62P09		
	ILLINOIS	FED. AID PROJECT		



LEGEND

- TEMPORARY PAVEMENT
- OTHER SURFACE WATERS (OSW)
- WEED CONTROL BROADLEAF (K0029618) & INTERSEEDING WITH SEEDING CLASS 4 (MODIFIED) (X1900002)
- TEMPORARY DITCH CHECKS (28000305)
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- DIRECTION OF FLOW
- EXISTING/PROPOSED CONTOUR LINE
- DIRECTION OF TRAFFIC

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Downers Grove, IL 60516

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

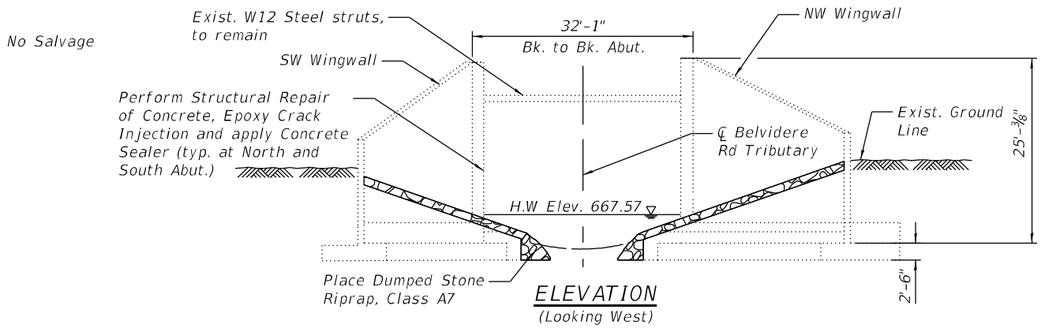
LANDSCAPING AND EROSION CONTROL 3 OF 3
ILLINOIS ROUTE 120 OVER DES PLAINES RIVER

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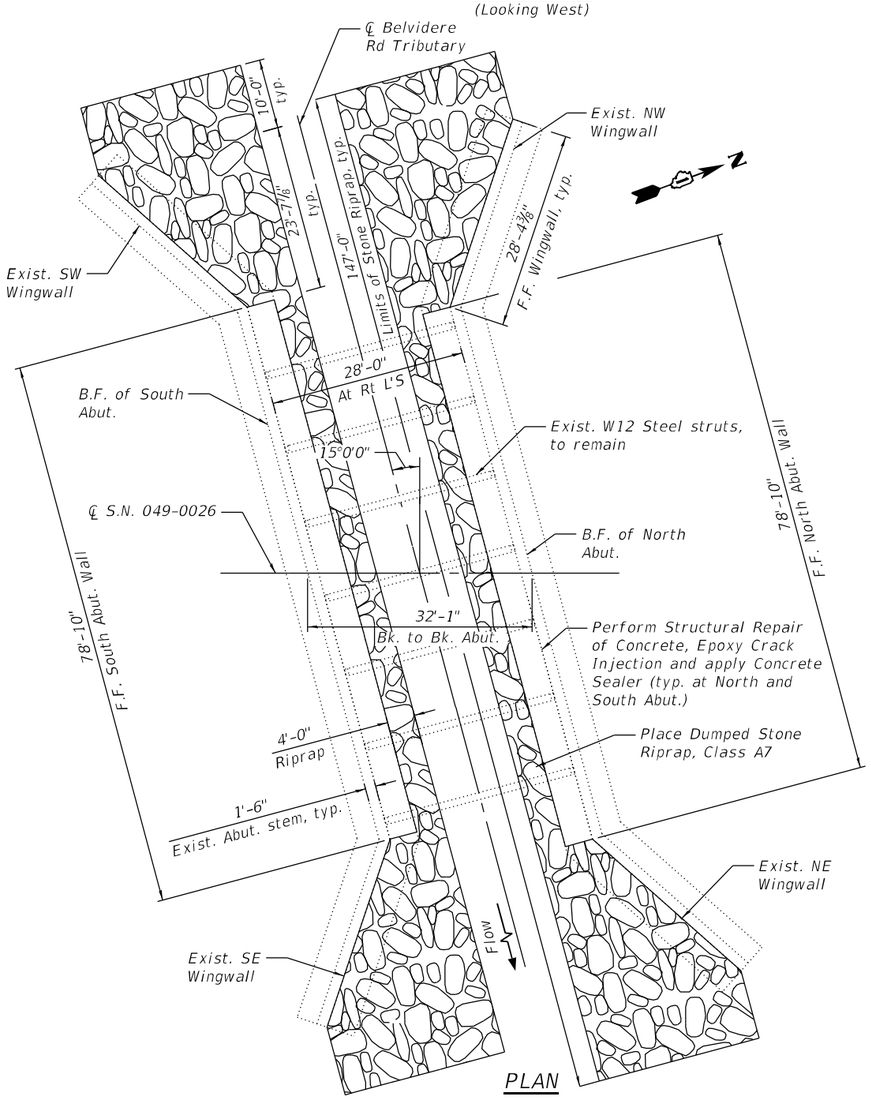
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	ILLINOIS	FED. AID PROJECT		

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Existing Structure: The existing Structure No. 049-0026 over Belvidere Road Tributary is an abandoned structure with no deck slab. The Structure was originally constructed in 1960 under contract F-43(15) Section G-12-1B-2. The structure was rehabilitated in 1988 under contract C-91-157-88. Concrete cut-off walls were constructed along the toes of the abutment and wingwall footings. In 2002 under contract C-91-079-93 Structure No. 049-0026 was partially abandoned and replaced with structure No. 049-0179. The superstructure was removed and W12 steel struts were installed between the faces of the abutments.



ELEVATION
(Looking West)



PLAN

INDEX OF SHEETS

SA-01	General Plan And Elevation
SA-02	North And South Abutment Repairs
SA-03	Existing Plans (Sheet 1 of 2)
SA-04	Existing Plans (Sheet 2 of 2)

ABBREVIATIONS

Abut.	Abutment	L'S	Angle
B.F.	Back Face	Prop.	Proposed
Bk.	Back	Rd	Roadway
℄	Centerline	Rt.	Right
Cl.	Clear	Shldr.	Shoulder
Conc.	Concrete	S.N.	Structure Number
Elev.	Elevation	Spa.	Spacing
Exist.	Existing	Sta.	Station
F.F.	Front Face.	Stg.	Stage
H.W.	High Water	Typ.	Typical
Jt.	Joint	Ø	Diameter

SCOPE OF WORK

1. Perform Structural Repair of Concrete, Epoxy Crack Injection and apply Concrete Sealer to Abutments noted on plans.
2. Install Stone Riprap, Class A7 Along the F.F. of Abutments and Wingwall as indicated on Plans.

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Stone Dumped Riprap, Class A7	Sq Yd	-	332	332
Concrete Sealer	Sq Ft	-	3567	3567
Epoxy Crack Injection	Foot	-	184	184
Structural Repair of Concrete (Depth Equal to or less than 5")	Sq Ft	-	140	140

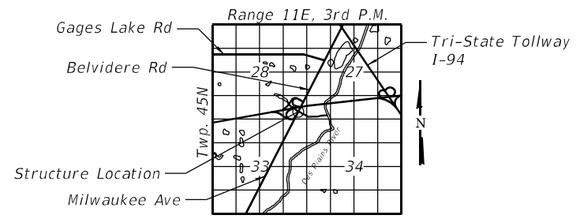
GENERAL NOTES

1. 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.
2. Concrete Sealer shall be applied to the designated areas of the abutments.
3. Layout of the slope protection system may be varied to suit ground conditions in the field as directed by the engineer.
4. All Spalls with Exposed Reinforcement shall be repaired with Formed Concrete.

STATE OF ILLINOIS
MAEN A. FARHAT
081.008545
LICENSED STRUCTURAL ENGINEER

Signed:

MAEN A. FARHAT, SE
IL Lic. No.: 081-008545
Expires: 11/30/2024



LOCATION SKETCH

GENERAL PLAN AND ELEVATION
STRUCTURE OVER BELVIDERE RD TRIBUTARY
F.A.P. 0333 SECTION 2021-071-BDR
LAKE COUNTY
STATION: 473+43.17
S.N. 049-0026

USER NAME =	DESIGNED - ME	REVISED -	
	CHECKED - MAF	REVISED -	
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PLOT DATE =	CHECKED - MAF	REVISED -	

Accurate GROUP, INC.

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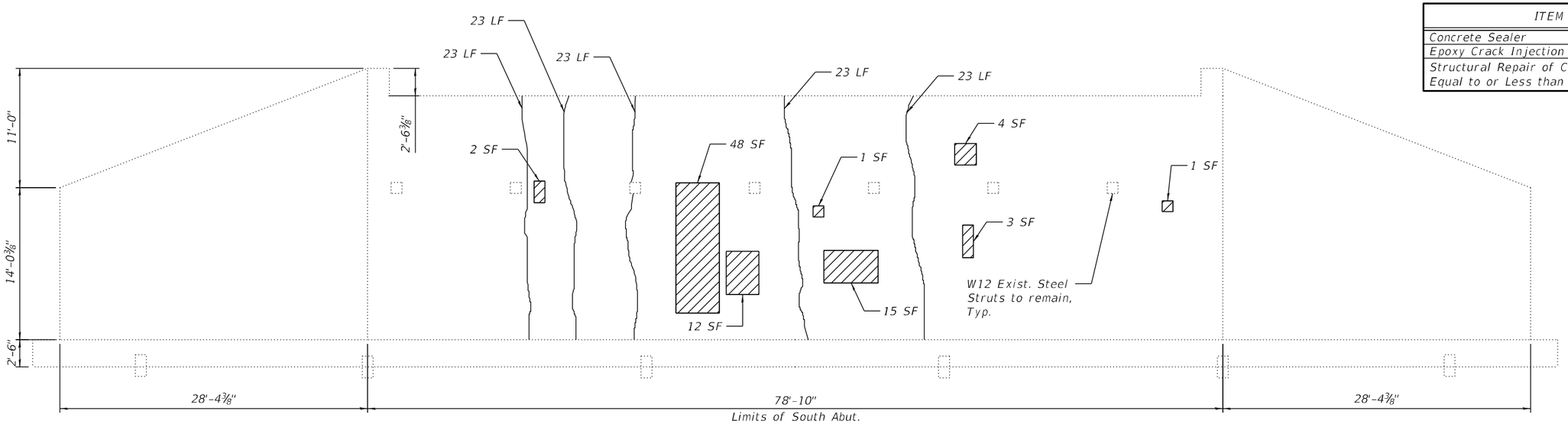
STRUCTURE NUMBER 049-0026
SHEET SA-01 OF SA-04 SHEETS

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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		CONTRACT NO. 62P09		
		ILLINOIS	FED. AID PROJECT	

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SOUTH ABUTMENT BILL OF MATERIAL

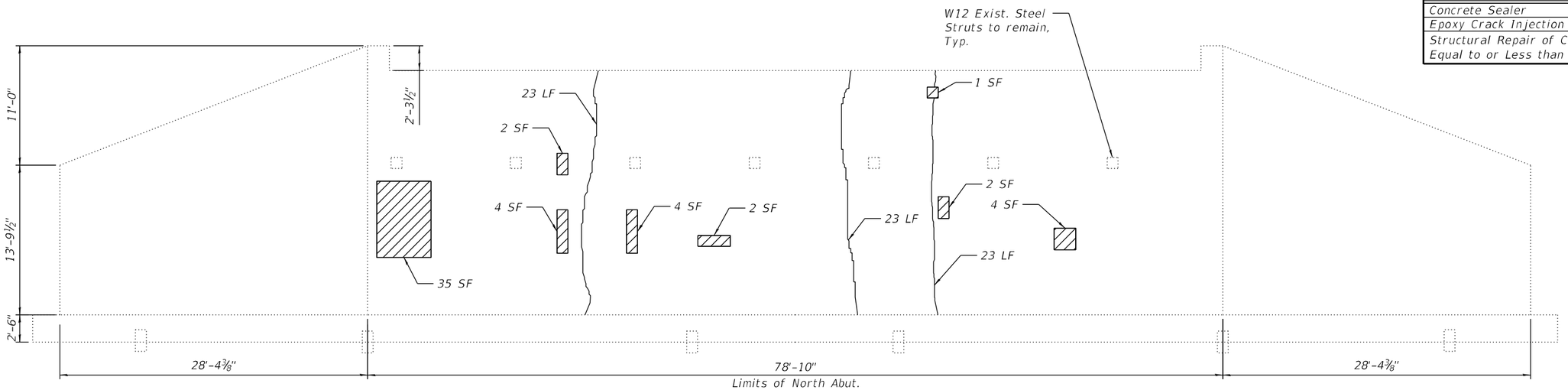
ITEM	UNIT	QUANTITY
Concrete Sealer	Sq Ft	1784
Epoxy Crack Injection	Foot	115
Structural Repair of Concrete (Depth Equal to or Less than 5 Inches)	Sq Ft	86



SOUTH ABUTMENT ELEVATION
(Looking South)

NORTH ABUTMENT BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Concrete Sealer	Sq Ft	1783
Epoxy Crack Injection	Foot	69
Structural Repair of Concrete (Depth Equal to or Less than 5 Inches)	Sq Ft	54



NORTH ABUTMENT ELEVATION
(Looking North)

NOTES

1. For General Notes, Index of Sheet and Total Bill of Material, See Sheet SA-01.
2. Quantities and limits shown are estimated for bidding purpose only. The actual areas to be repaired and the type(s) of repairs to be used will be determined by the engineer in the field at the time of construction.
3. Concrete Sealer is to be applied to the Abutment stem.

LEGEND

- Structural Repair of Concrete (Depth Equal to or less than 5")
- Epoxy Crack Injection (width > 0.06")
- SF Square Foot
- LF Linear Foot

Accurate GROUP, INC.

USER NAME =	DESIGNED - ME	REVISED -	
	CHECKED - MAF	REVISED -	
PLOT SCALE =	DRAWN - ME	REVISED -	
PLOT DATE =	CHECKED - MAF	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

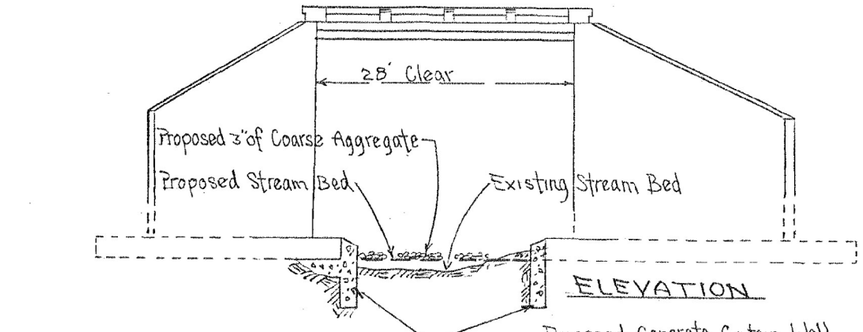
NORTH AND SOUTH ABUTMENT REPAIRS
STRUCTURE NUMBER 049-0026
SHEET SA-02 OF SA-04 SHEETS

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0333	2021-071-BDR	LAKE	131	52
		CONTRACT NO. 62P09		
	ILLINOIS FED. AID PROJECT			

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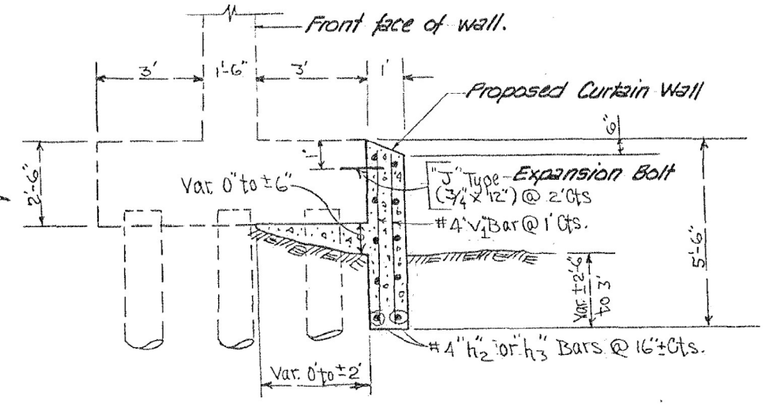
ROUTE	SECTION	COUNTY	TOT. SHTS.	SHT. NO.
FAU 1226	*	LAKE	12	4

* (G&12) 1B-1, 1B-2 & 1B-3 (I-88)



PLAN

NOTE: For Information pertaining to existing structure - See Shts. 9, 10, & 11



CURTAIN WALL DETAILS (SIMILAR FOR WINGWALL)

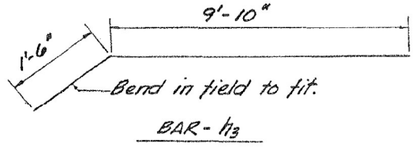
BILL OF MATERIAL

BAR	SIZE	NO.	LENGTH	SHAPE	LOCATION
h_2	#4	100	18'-0"	——	Footing
h_3	#4	40	11'-4"	/	Wingwall Footing
V_1	#4	408	5'-0"	——	Abut. & Wingwl.

h_2 bars are 5-length lapped bars (1'-6" Min. Lap)

Reinforcement Bars = 2870 Pounds
Class X Concrete = 42 Cu. Yds.
3/4" ϕ Expansion Bolts = 101 Each
Grading & Shaping Bridge Culvert Stream Bed = 260 S.Y.
* Aggregate (Erosion Control) = 36 Tons
* Earth Excavation For Erosion Control = 55 C.YD.

* Downstream side only. See SEC. A-A on sheet #2.



FOR INFORMATION ONLY

(2)

BRIDGE NO. 049-0026 (SECTION 1B-2)

FAU 1226 (ILLINOIS ROUTE 120)
SECTION (G&12) 1B-1, 1B-2 & 1B-3 (I-88)
LAKE COUNTY

PLAN AND ELEVATION
CURTAIN WALL DETAILS

Accurate GROUP, INC.

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING PLANS (SHEET 1 OF 2)
STRUCTURE NUMBER 049-0026
SHEET SA-03 OF SA-04 SHEETS

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0333	2021-071-BDR	LAKE	131	53
		CONTRACT NO. 62P09		
		ILLINOIS	FED. AID PROJECT	

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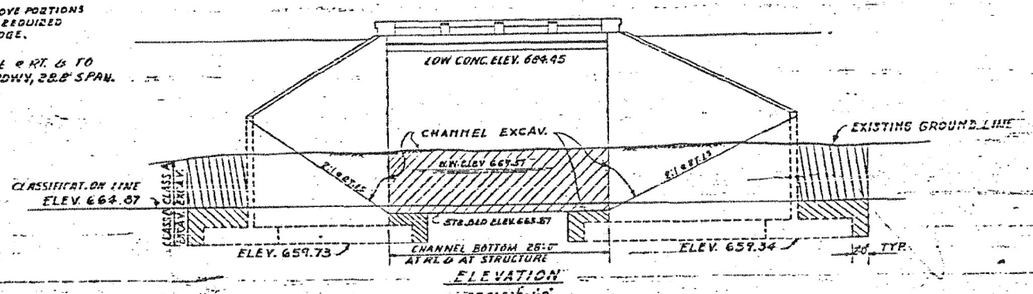
ROUTE	SECTION	COUNTY	TOT. SHTS.	SHT. NO.
FAU 1226	*	LAKE	12	9

* (G-12)1B-1, 1B-2 & 1B-3 (I-88)

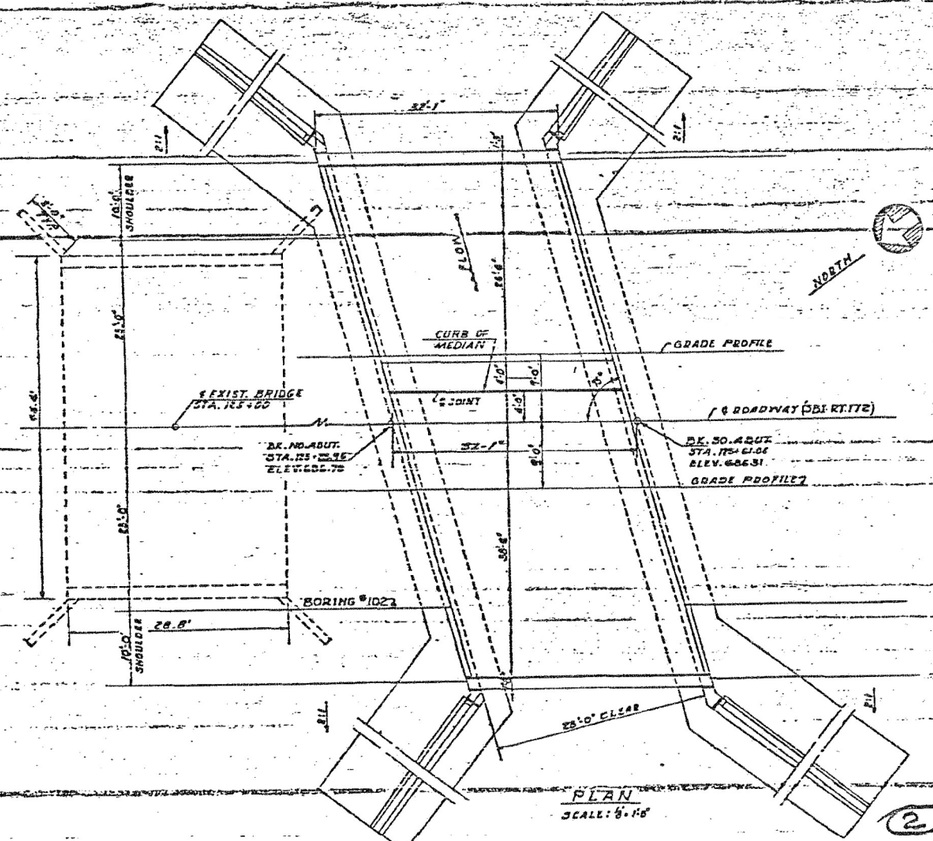
S.E. "CUT IN N.E. WINGWALL
LT. STA. 351+10. ELEV. 673.00

CONTRACTOR SHALL REMOVE PORTIONS OF EXISTING BRIDGE AS REQUIRED TO CONSTRUCT NEW BRIDGE.

EXISTING STRUCTURE:
R.C. SLAB BRIDGE @ RT. & TO
SBI ROUTE 172. 42.3' RDWY, 28.8' SPAN.
CONCRETE ABUTMENTS.



ELEVATION
SCALE: 1/8"=1'-0"



PLAN
SCALE: 1/8"=1'-0"

NORTH

STATION 125+65
BUILT 1928 BY
STATE OF ILLINOIS
SN 049-0026
FAP 333 SBI F-43(12)
LOADING H20-S16

RIGHT SIDE DETAIL
SEE STA. 2115

GENERAL NOTES

CLASS X CONCRETE SHALL BE USED THROUGHOUT EXCEPT IN HANDRAILS.

THE CONCRETE FLOOR SHALL BE FINISHED IN ACCORDANCE WITH ARTICLE 503.17 OF THE STANDARD SPECIFICATIONS.

THE HANDRAIL CONCRETE IN THE RAIL POSTS AND RAILING SHALL BE POURED IN SEPARATE OPERATIONS.

THE CONTRACTOR SHALL DRIVE ONE TIMBER TEST PILE AT EACH ABUTMENT IN A PERMANENT LOCATION BEFORE ORDERING REMAINDER OF PILES AS DIRECTED BY THE ENGINEER.

THE BACK OF ABUTMENTS AND WINGWALLS SHALL BE WATERPROOFED IN ACCORDANCE WITH ARTICLE 507.11 OF THE STANDARD SPECIFICATIONS.

TOTAL BILL OF MATERIAL

ITEM	UNIT	QUANTITY ROUTE	QUANTITY SUPRSTR.	QUANTITY TOTAL
CLASS X CONCRETE	CU. YDS.	122.9	630.8	753.7
HANDRAIL CONCRETE	CU. YDS.	2.7		2.7
REINFORCEMENT BARS	LBS.	29560	72430	101990
FURNISHING UNTREATED PILES	L. IN. FT.		4680	4680
DRIVING TIMBER PILES	L. IN. FT.		4680	4680
TEST PILES	EACH		2	2
NAME PLATES	EACH	1		1
CL. A EXCAVATION FOR STRUCTURES	CU. YDS.		740	740
CL. B EXCAVATION FOR STRUCTURES	CU. YDS.		500	500
REMOVAL OF EXISTING STRUCTURES	EACH			1

DESIGN LOAD

LL = H20-S16-44
FUTURE D.L. = 5 LBS. PER SQ. FT. OF WEARING SURFACE

DESIGN STRESSES

CONCRETE (TEST IN PLACE)
f'c = 3,500 f_c = 1,400 PSI
f'c = 2,500 f_c = 1,000 PSI
n = 10

REINFORCING STEEL
fs = 20,000 PSI

WATER WAY DATA
DRAINAGE AREA 200 ACRES
CHARACTER ROLLING
CLOSURE OF DRAINING 55
PROPOSED OPENING 460 SQ. FT.

GENERAL PLAN
SLAB BRIDGE
CARRYING S.B.I. 172
OVER CHANNEL
F.A. PROJECT FAS(-)(-)
F.A. ROUTE 2021 SECTION (G & T) (-)
LAKE COUNTY
STATION 125+65

AUTO ENGR. & ASSOCIATES CONSULTING ENGINEERS
12 SOUTH WOOD STREET CHICAGO, ILLINOIS

NOTE: SEE SHEET 6 FOR PROFILE.

BRIDGE NO. 049-0026 INFORMATION DRAWING (2)

FOR INFORMATION ONLY

SHEET 9 OF 12 SHEETS

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PLOT DATE =	CHECKED - MAF	REVISED -	

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DEPARTMENT OF TRANSPORTATION

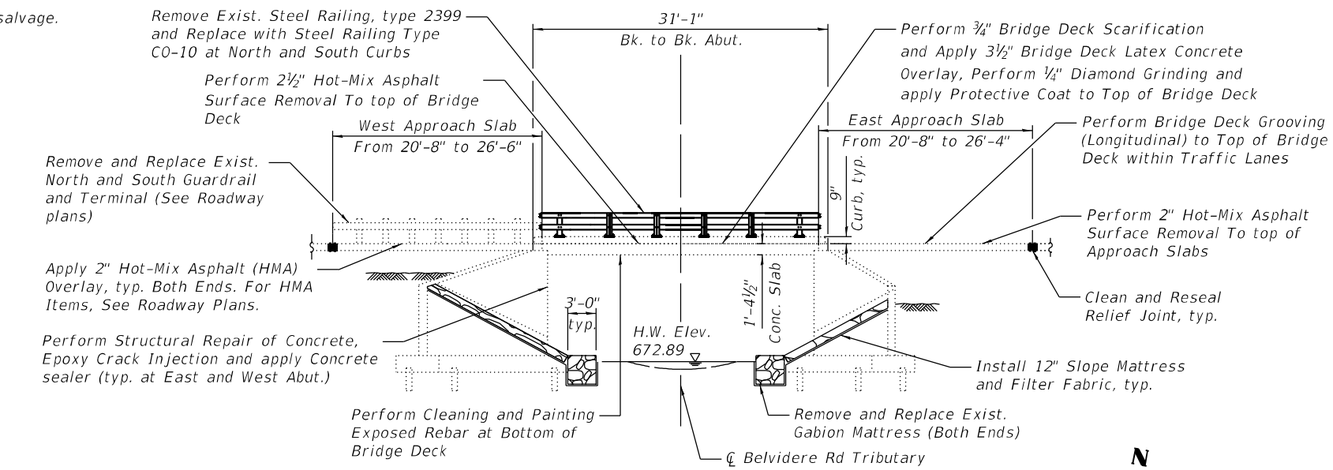
EXISTING PLANS (SHEET 2 OF 2)
STRUCTURE NUMBER 049-0026
SHEET SA-04 OF SA-04 SHEETS

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0333	2021-071-BDR	LAKE	131	54
		CONTRACT NO. 62P09		
	ILLINOIS FED. AID PROJECT			

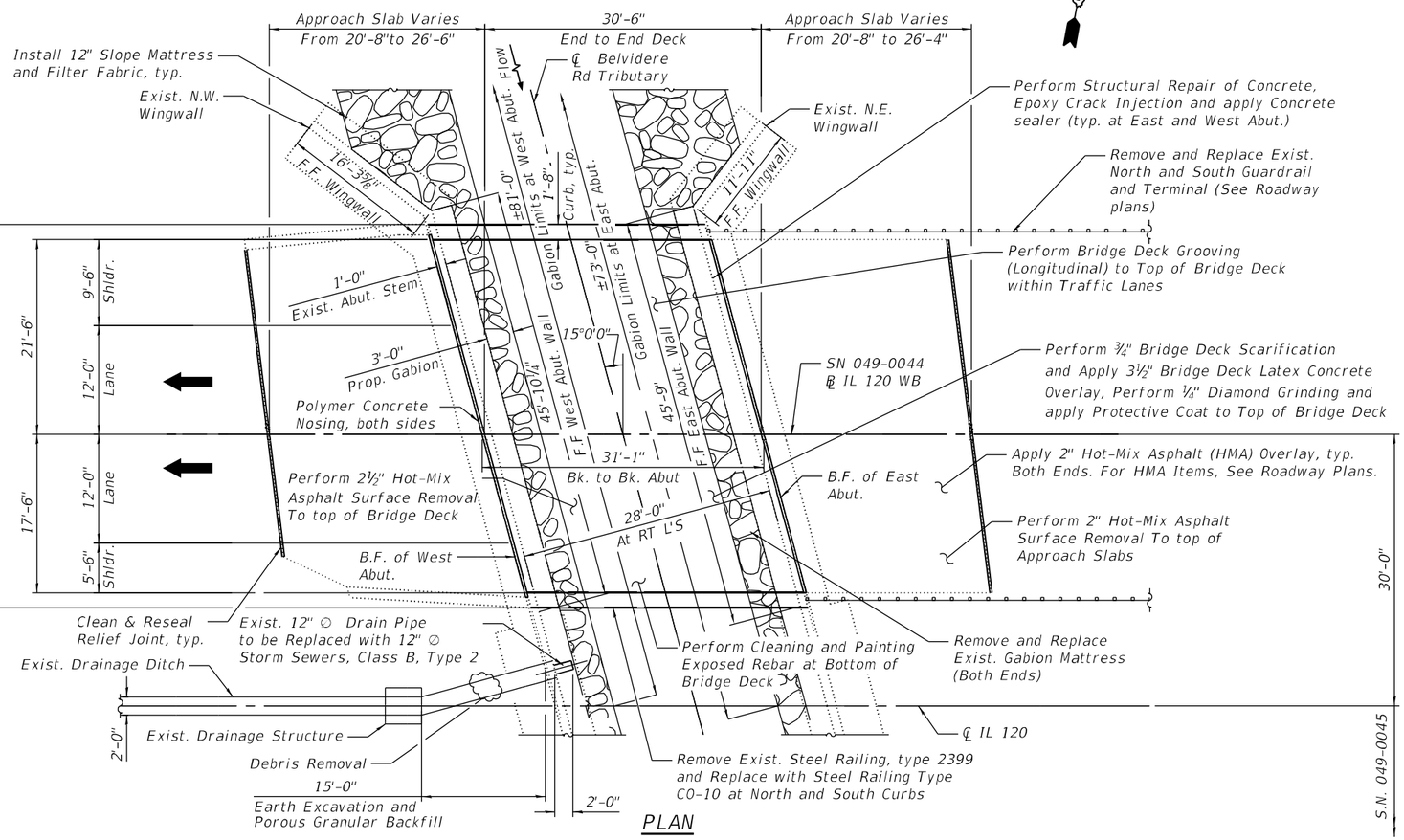
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Existing Structure: The existing Structure No. 049-0044, Westbound Illinois Route 120 over Belvidere Road Tributary, was originally built in 1960 under Contract F-43(15). This is a single Span bridge that carries 2-12' lanes, a 5-6" inside shoulder, a 9'-6" shoulder and a 1'-8" concrete curb with railing on each side. The bridge has out to out width of ±42-4" and overall length of ±31'-1" from Back to Back Abutments. This Bridge was rehabilitated in 2001 under Contract C-91-355-96. The existing concrete post and beam railing was removed and replaced with a new Type 2399 steel curb-mounted railings. In 2012 scour countermeasures were performed in the channel and along the abutment footings throughout the service life of the structure. Riprap and gabion mattresses were placed alongside the abutment footings and within the channel.

No salvage.



ELEVATION
(Looking South)



PLAN

HIGHWAY CLASSIFICATION

Westbound Illinois Route 120
Functional Class: Other Principal Arterial
ADT: 17,750 (2016) / 24,000 (2040)
ADTT : 3,362 (2016) / 4,546 (2040)
DHV: 1,775 (2016)
Design Speed: 60 M.P.H
Posted Speed: 55 M.P.H
One - Way Traffic

NOTES

1. For General Notes, Index of Sheets and TB0M see sheet SB-02.
2. For Gabion Mattress Repair limits and details, see sheet SB-07.

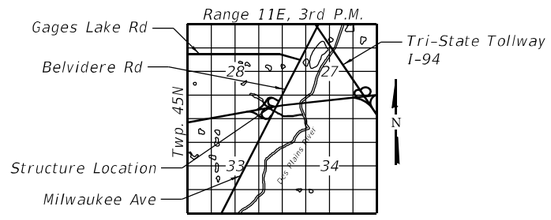
LOADING

No Future Wearing Surface Allowed, HS20.

STATE OF ILLINOIS
MAEN A. FARHAT
081.008545
LICENSED STRUCTURAL ENGINEER

Signed: Maen Farhat

MAEN A. FARHAT, SE
IL Lic. No.: 081-008545
Expires: 11/30/2024



LOCATION SKETCH

GENERAL PLAN AND ELEVATION
WB IL 120 OVER BELVIDERE RD TRIBUTARY
F.A.P. 0333 SECTION 2021-071-BDR
LAKE COUNTY
STATION: 350+63
S.N. 049-0044

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STRUCTURE NUMBER 049-0044
SHEET SB-01 OF SB-10 SHEETS

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0333	2021-071-BDR	LAKE	131	55
		CONTRACT NO. 62P09		
		ILLINOIS	FED. AID PROJECT	

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GENERAL NOTES

1. 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.

2. All exposed concrete edges shall have a ¾"x45° chamfer, except where shown otherwise.

3. Protective Coat shall be applied to the top and inside face of parapets, and to the surface of the new Latex Concrete overlay.

4. Concrete Sealer shall be applied to the designated areas of the abutments.

5. Layout of the Gabion mattress system may be varied to suit ground conditions in the field as directed by the engineer.

6. For HMA Removal and Overlay on Approach slabs, See Roadway Plans.

SCOPE OF WORK

1. Perform 2½" Hot-Mix Asphalt Removal at the Bridge Deck and 2" Hot-Mix Asphalt Removal at the Approach Slabs, See Roadway Plans.

2. Scarify ¾" from the Bridge Deck Slab.

3. Perform Partial-depth Repairs to the Bridge Deck Slab and Approach Slabs.

4. Clean & Reseal Relief Joint at East and West Ends.

5. Apply 3½" Bridge Deck Latex Concrete Overlay on Bridge Deck and 2" Hot-Mix Asphalt (HMA) Overlay on the Approach Slabs, See Roadway Plans.

6. Perform ¼" Diamond Grinding to top of bridge deck.

7. Perform Bridge Deck Grooving (Longitudinal) within Traffic Lanes.

8. Perform Cleaning and Painting Exposed Reinforcement at the Bottom of Deck.

9. Apply Protective Coat to the top and inside faces of Parapets, and to the top surface of Latex Concrete Overlay.

10. Perform Structural Repair of Concrete, Epoxy Crack Injection, and apply Concrete Sealer to Abutments as noted on plans.

11. Remove Existing Gabion Mattress along the Front Face of Abutments.

12. Place Filter Fabric along the Front Face of Abutments and Wingwall as shown on the plans.

13. Install Proposed Gabions and 12" Slope Mattress at the Front Face of East and West Wingwalls.

14. Replace Exist. Pipe with 12" Storm Sewers, Class B, Type 2.

INDEX OF SHEETS

SB-01	General Plan and Elevation
SB-02	General Notes, Index of Sheets and TBOM
SB-03	Bridge Deck and Approach Slabs Repair Plan
SB-04	East and West Abutment Repairs
SB-05	Steel Railing Details, Type C0-10
SB-06	Drainage Pipe Repair Details
SB-07	Gabion Mattress Details
SB-08	Existing Plans (Sheet 1 of 3)
SB-09	Existing Plans (Sheet 2 of 3)
SB-10	Existing Plans (Sheet 3 of 3)

ABBREVIATIONS

Abut.	Abutment	L'S	Angle
B.F.	Back Face	Prop.	Proposed
Bk.	Back	Rd	Roadway
℄	Centerline	Rt.	Right
Cl.	Clear	Shldr.	Shoulder
Conc.	Concrete	S.N.	Structure Number
Elev.	Elevation	Spa.	Spacing
Exist.	Existing	Sta.	Station
F.F.	Front Face.	Typ.	Typical
H.W.	High Water	Ø	Diameter
Jt.	Joint		

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Earth Excavation	Cu Yd	-	3.3	3.3
Porous Granular Backfill	Cu Yd	-	6.2	6.2
Filter Fabric	Sq Yd	-	162	162
Gabions	Cu Yd	-	52	52
Slope Mattress 12"	Sq Yd	-	40	40
Hot-Mix Asphalt Surface Removal, 2½"	Sq Yd	133	-	133
Bridge Rail Removal	Foot	62	-	62
Protective Coat	Sq Yd	144	-	144
Steel Railing, Type C0-10	Foot	62	-	62
Storm Sewers, Class B, Type 2 12"	Foot	-	18	18
Storm Sewer Removal 12"	Foot	-	18	18
Concrete Sealer	Sq Ft	-	911	911
Epoxy Crack Injection	Foot	-	86	86
Clean & Reseal Relief Joint	Foot	74	-	74
Gabion Removal	Cu Yd	-	52	52
Bridge Deck Grooving (Longitudinal)	Sq Yd	82	-	82
Cleaning And Painting Exposed Rebar	Sq Ft	100	-	100
Bridge Deck Latex Concrete Overlay, 3½ Inches	Sq Yd	133	-	133
Bridge Deck Scarification ¾"	Sq Yd	133	-	133
Structural Repair of Concrete (Depth Equal to or less than 5")	Sq Ft	-	105	105
Debris Removal	L Sum	1	-	1
Diamond Grinding (Bridge Section)	Sq Yd	119	-	119
Polymer Concrete	Cu Ft	5	-	5

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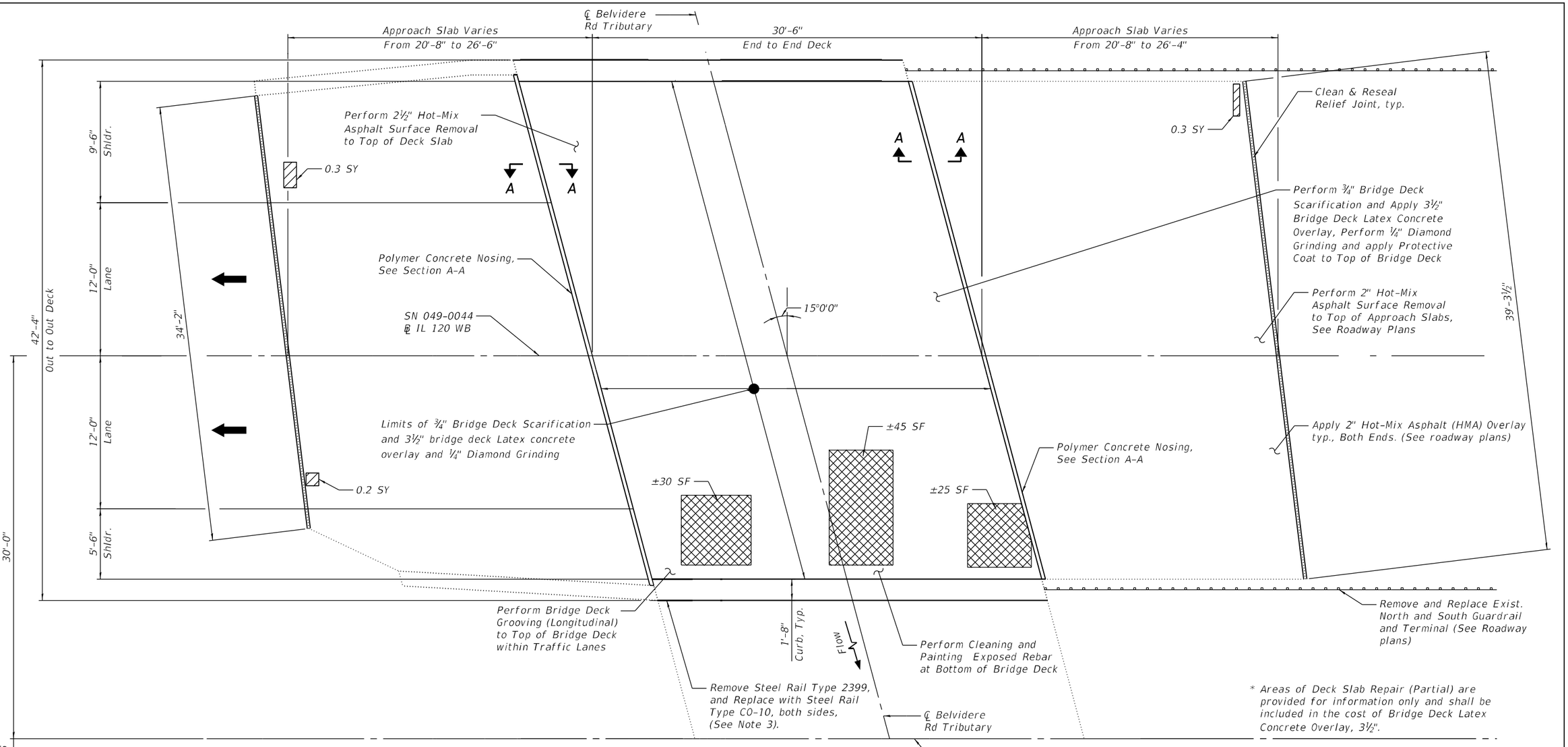
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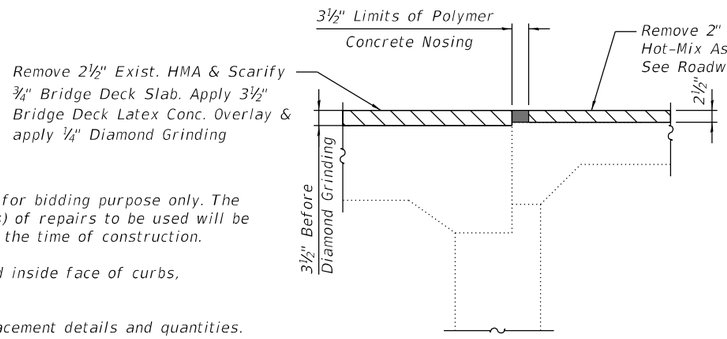
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL NOTES, INDEX OF SHEETS & TBOM
STRUCTURE NUMBER 049-0044
SHEET SB-02 OF SB-10 SHEETS

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0333	2021-071-BDR	LAKE	131	56
		CONTRACT NO. 62P09		
		ILLINOIS	FED. AID PROJECT	



* Areas of Deck Slab Repair (Partial) are provided for information only and shall be included in the cost of Bridge Deck Latex Concrete Overlay, 3½".



DECK PLAN

SECTION A-A

NOTES

1. Quantities and limits shown are estimated for bidding purpose only. The actual areas to be repaired and the type(s) of repairs to be used will be determined by the engineer in the field at the time of construction.
2. Protective Coat shall be applied to top and inside face of curbs, and top of Latex Concrete Overlay.
3. See SB-05 of SB-10 for Steel Rail replacement details and quantities.
4. Taper Overlay at Approach slabs to match top of Pavement Elevation.

LEGEND

	*Deck Slab Repair (Partial Depth)
	Cleaning and painting exposed rebar
	Polymer Concrete Nosing
SF	Square Foot

BILL OF MATERIAL

ITEM	UNIT	Quantity
Hot-Mix Asphalt Surface Removal, 2½"	Sq Yd	133
Bridge Rail Removal	Foot	62
Protective Coat	Sq Yd	144
Clean & Reseal Relief Joint	Foot	74
Bridge Deck Grooving (Longitudinal)	Sq Yd	82
Cleaning And Painting Exposed Rebar	Sq Ft	100
Bridge Deck Latex Concrete Overlay, 3½ Inches	Sq Yd	133
Bridge Deck Scarification ¾"	Sq Yd	133
Diamond Grinding (Bridge Section)	Sq Yd	119
Polymer Concrete	Cu Ft	5

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	CHECKED - MAF	REVISED -	
PLOT SCALE =	DRAWN - ME	REVISED -	
PLOT DATE =	CHECKED - MAF	REVISED -	

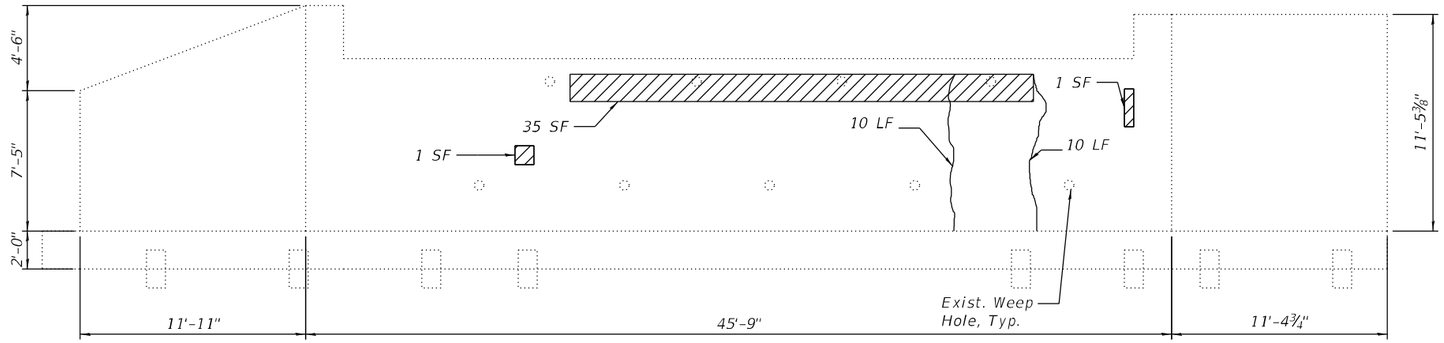
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BRIDGE DECK AND APPROACH SLABS REPAIR PLAN
STRUCTURE NUMBER 049-0044

SHEET SB-03 OF SB-10 SHEETS

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0333	2021-071-BDR	LAKE	131	57
		CONTRACT NO. 62P09		
	ILLINOIS	FED. AID PROJECT		

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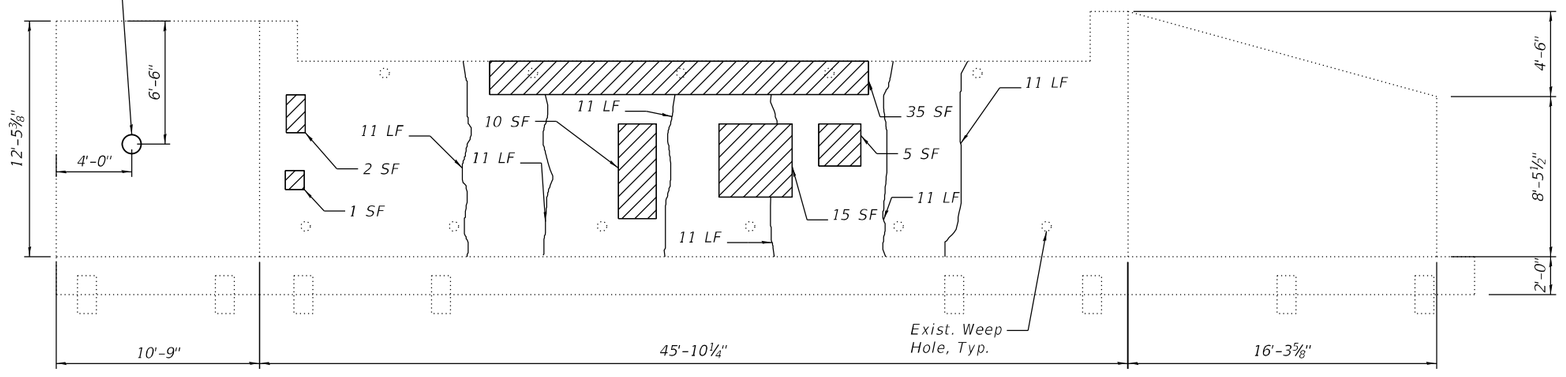


EAST ABUTMENT ELEVATION

(Looking East)

EAST ABUTMENT BILL OF MATERIAL

ITEM	UNIT	Quantity
Concrete Sealer	Sq Ft	429
Epoxy Crack Injection	Foot	20
Structural Repair of Concrete (Depth Equal to or Less than 5 Inches)	Sq Ft	37



WEST ABUTMENT ELEVATION

(Looking West)

WEST ABUTMENT BILL OF MATERIAL

ITEM	UNIT	Quantity
Concrete Sealer	Sq Ft	482
Epoxy Crack Injection	Foot	66
Structural Repair of Concrete (Depth Equal to or Less than 5 Inches)	Sq Ft	68

NOTES

1. For General Notes, Index of Sheet and Total Bill of Material, see Sheet SB-02.
2. Quantities and limits shown are estimated for bidding purpose only The actual areas to be repaired and the type(s) of repairs to be used will be determined by the engineer in the field at the time of construction.
3. Concrete Sealer is to be applied to the Abutment stem.

LEGEND

- Structural Repair of Concrete (Depth Equal to or less than 5")
- Epoxy Crack Injection (width > 0.06")
- SF Square Foot
- LF Linear Foot

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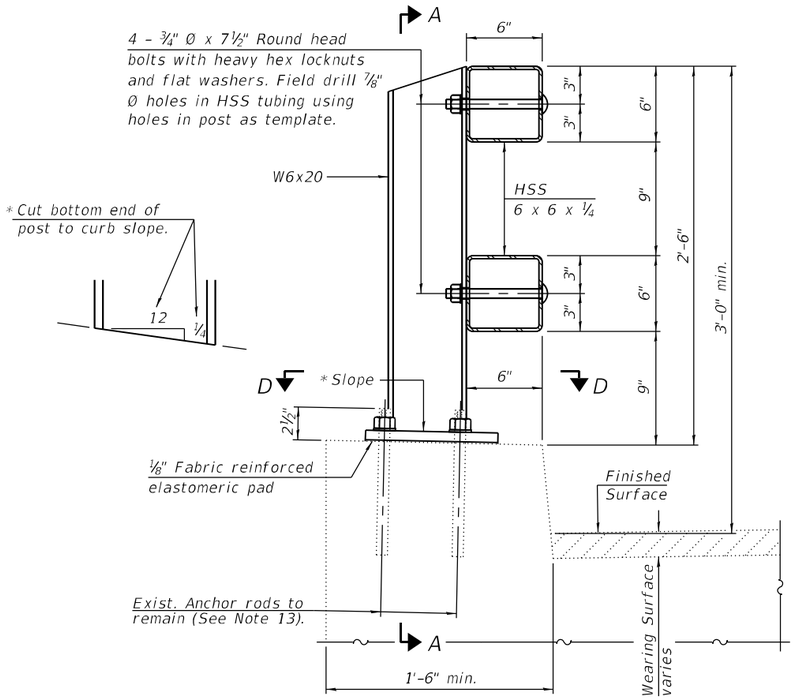
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

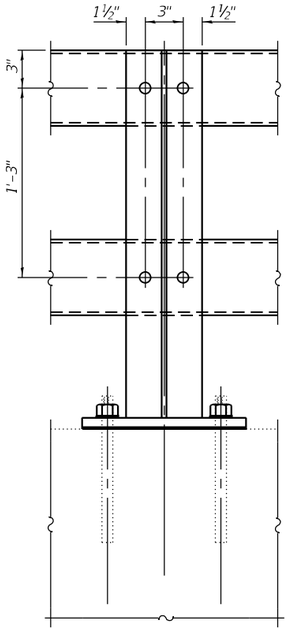
EAST AND WEST ABUTMENT REPAIRS
STRUCTURE NUMBER 049-0044

SHEET SB-04 OF SB-10 SHEETS

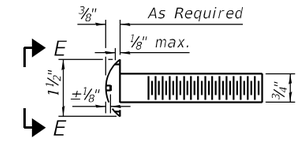
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0333	2021-071-BDR	LAKE	131	58
		CONTRACT NO. 62P09		
	ILLINOIS	FED. AID PROJECT		



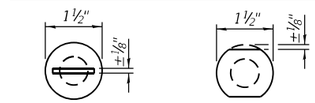
SECTION AT RAIL POST
(Retrofit construction)



SECTION A-A



ROUND HEAD BOLT DETAIL



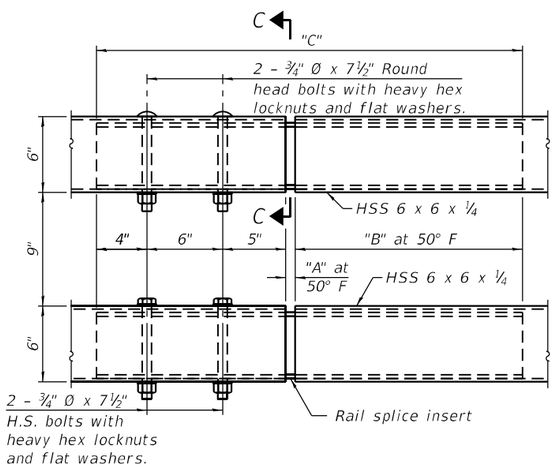
With Slot (shown) or Approved Recess

Without Slot or Recess

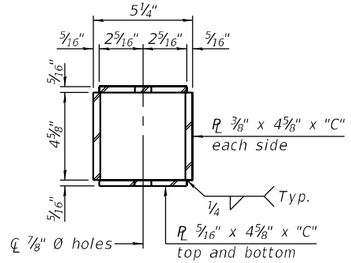
VIEW E-E

NOTES

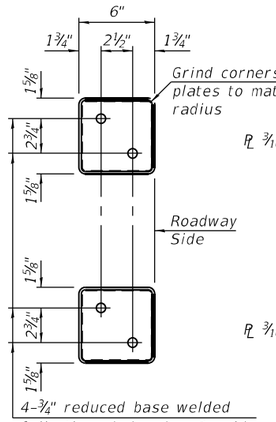
1. All HSS tubing shall be ASTM A500 grade C.
2. All plates shall be AASHTO M270 grade 50.
3. All heavy hex nuts shall be according to ASTM A563 grade DH.
4. All fully threaded anchor rods shall be ASTM F1554 grade 105.
5. The post base plate shall be fastened to the curb snug tight and given an additional ⅛" turn.
6. Posts shall not be located closer than 2'-6" to a bridge expansion joint.
7. Provide one ⅛" and two 1/16" steel shims for 25% of the posts. Shims shall be similar to base plates in size and holes.
8. All steel rail elements shall be galvanized according to Article 509.05 of the Standard Specifications.
9. All HSS tubing shall be CVN tested according to Article 1006.34(b) of the Standard Specifications.
10. Rail splice inserts may be built out of 2 -⅜" bent plates in lieu of the 4 plate rail splice inserts shown, provided the outside dimensions are matched.
11. All round head bolts shall be ASTM A449. The centerline of rail splices shall be placed between 1'-8" to 2'-6" from the centerline of the posts.
12. The free end of the splice tube shall be oriented away from the closest post.
13. Existing Anchor Rods shall be cleaned and reused in instaling new Hand Rail. Existing washers and nuts shall be replaced with new washers heavy hex lock nuts.



TOP AND BOTTOM RAIL SPLICE ELEVATION

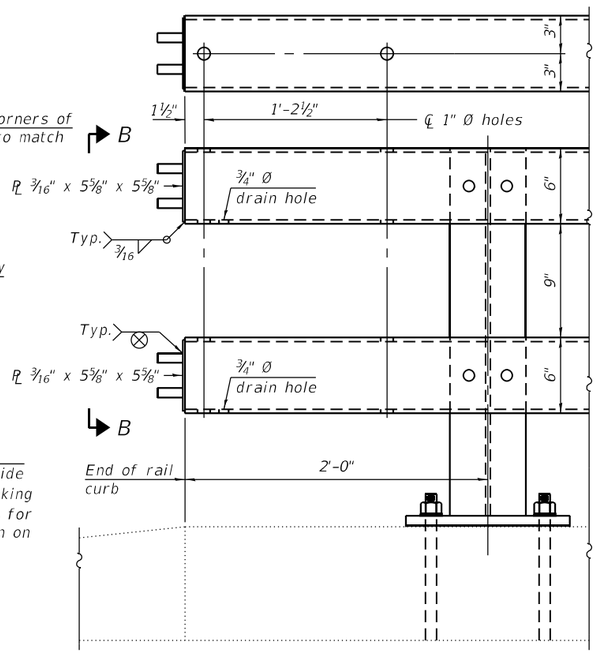


SECTION C-C

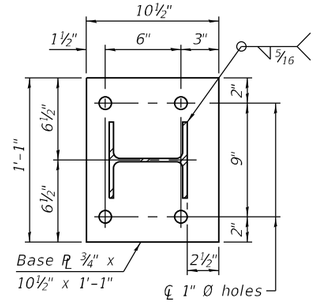


4-¾" reduced base welded fully threaded rods. Provide 4-¾" washers and self-locking nuts or nuts and jam nuts for guardrail connection shown on Hwy. Std. 631066.

VIEW B-B



END OF RAIL DETAILS



SECTION D-D

RAILING CRITERIA

MASH 2016 Test Level	4
Railing Weight (plf)	75
Min f'c (psi)	4,500
Post Spacing Range	6'-8" - 10'-0"

SPLICE DIMENSIONS

Location	T	A	B	C
All locs. not over exp. jts.	0	½"	1'-6"	2'-9½"
Over Strip Seal Jt.	≤4"	2½"	1'-8"	3'-1½"
Over Finger or Modular Jt.	≤9½"	5½"	1'-10¾"	3'-7¼"
Over Finger or Modular Jt.	≤15"	8¼"	2'-1½"	4'-0¾"

T = ; total movement along centerline of roadway at expansion joint.

BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Steel Railing, Type CO-10	Foot	62

R-42 10-12-2021

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	CHECKED - MAF	REVISED -	
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PLOT DATE =	CHECKED - MAF	REVISED -	

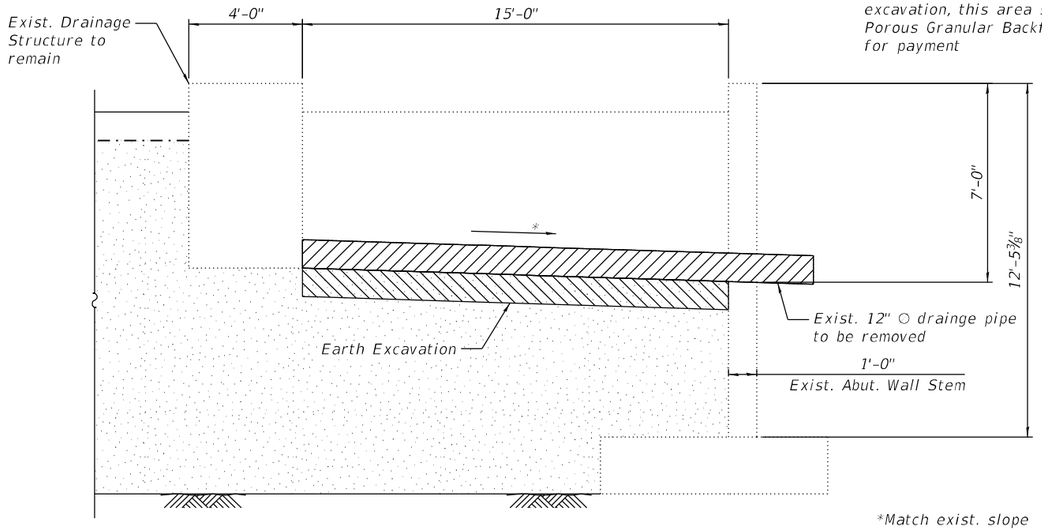
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STEEL RAILING, TYPE CO-10
STRUCTURE NO. 049-0044
SHEET SB-05 OF SB-10 SHEETS

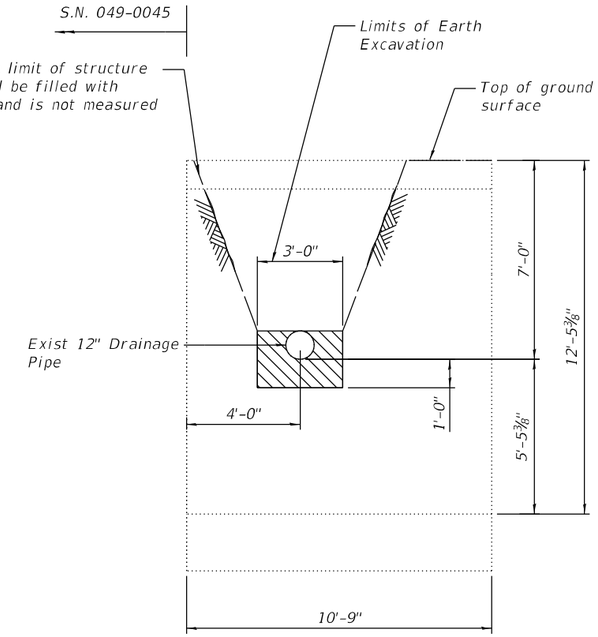
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		CONTRACT NO. 62P09		
	ILLINOIS FED. AID PROJECT			

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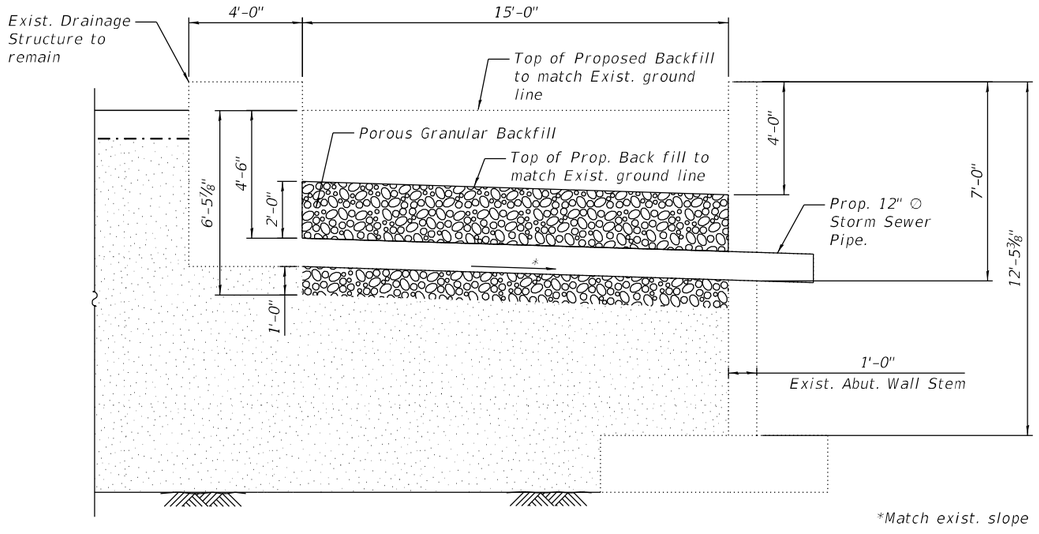
DRAINAGE PIPE REMOVAL ELEVATION



DRAINAGE PIPE REMOVAL CROSS SECTION

BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Earth Excavation	Cu Yd	3.3
Porous Granular Backfill	Cu Yd	6.2
Storm Sewers, Class B, Type 2 12"	Foot	18
Storm Sewer Removal 12"	Foot	18



PROPOSED DRAINAGE PIPE ELEVATION

LEGEND

Porous Granular Backfill

Exist. Drainage Pipe Removal

Earth Excavation Limits

NOTES:

1. The length of the pipe to be removed and replaced is estimated. The contractor shall verify in the field the actual length of the pipe.
2. Contractor shall excavate 1 ft below the existing pipe and replace the displaced soil with granular backfill. Cost included in Porous Granular Backfill.
3. Contractor shall choose a flexible type pipe (PVC) to replace the existing pipe.
4. Cost of Grout removal around existing pipe is included in Storm Sewer Removal.
5. Cost of PJF is included in Storm Sewer, Class B, Type 2, 12".

MODEL: Default
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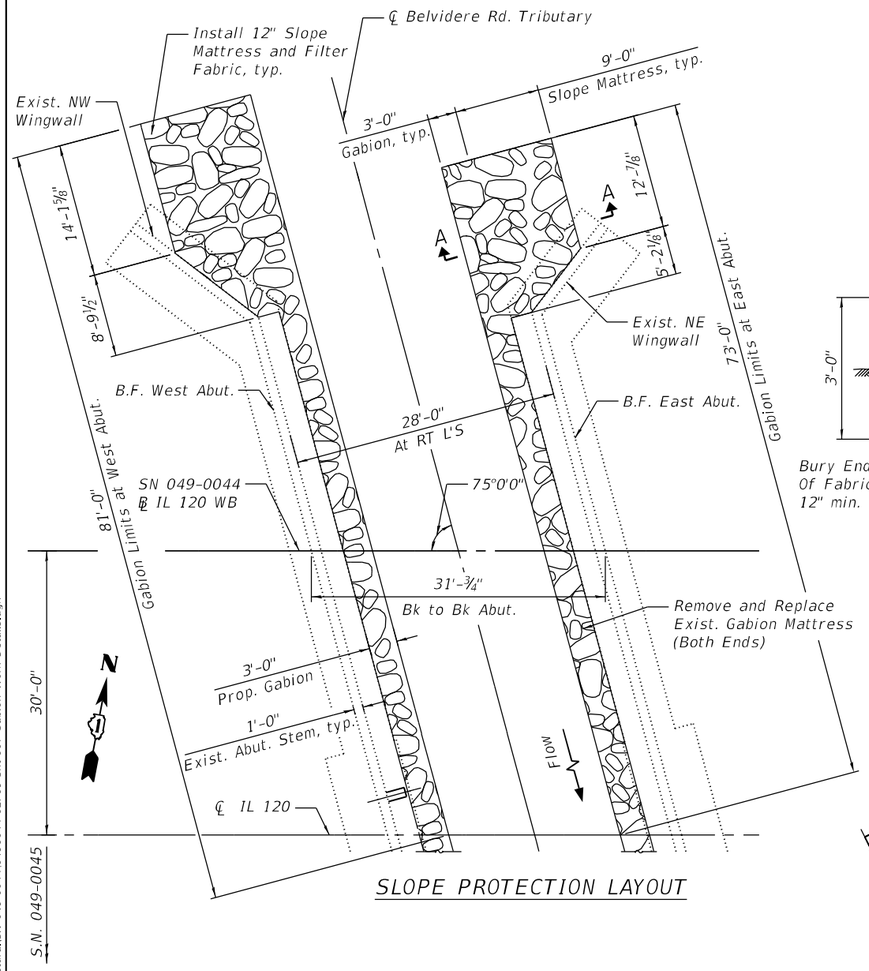
Accurate GROUP, INC.

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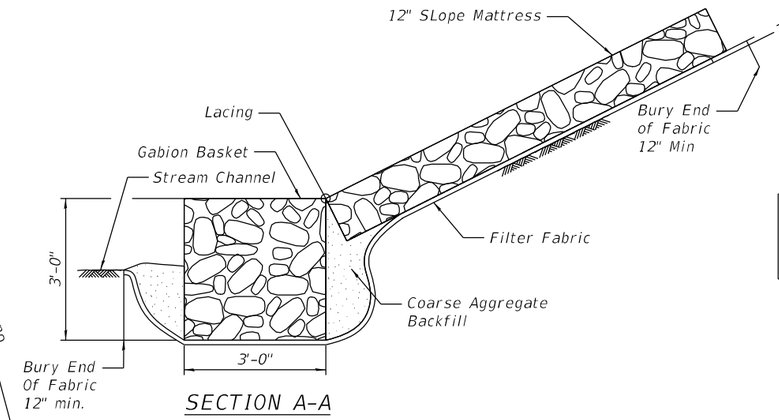
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DRAINAGE PIPE REPAIR DETAILS
STRUCTURE NUMBER 049-0044
SHEET SB-06 OF SB-10 SHEETS

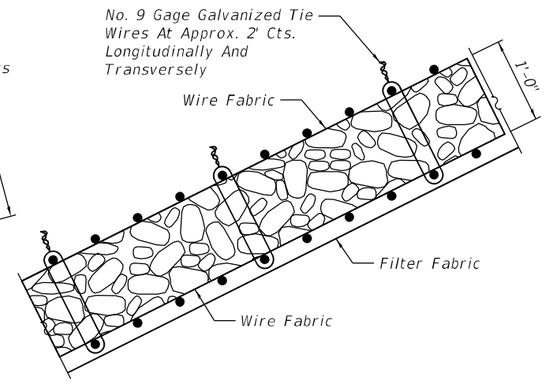
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		CONTRACT NO. 62P09		
	ILLINOIS	FED. AID PROJECT		



SLOPE PROTECTION LAYOUT



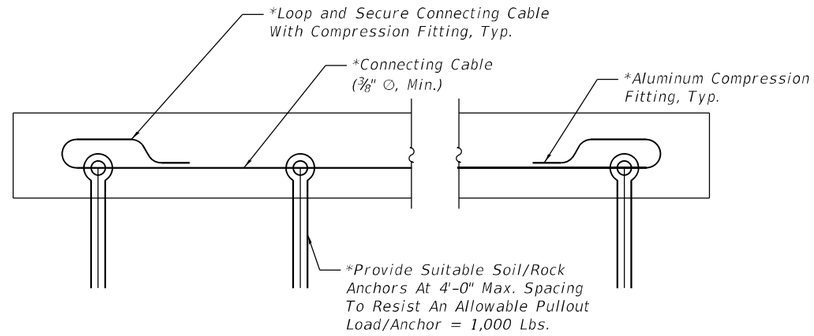
SECTION A-A



SLOPE PROTECTION LAYOUT

BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Filter Fabric	Sq Yd	162
Gabions	Cu Yd	52
Slope Mattress 12"	Sq Yd	40
Gabion Removal	Cu Yd	52

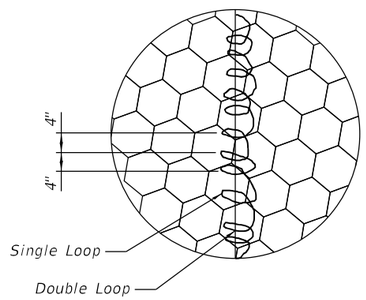


*Included in The Cost of Slope Mattress 12"

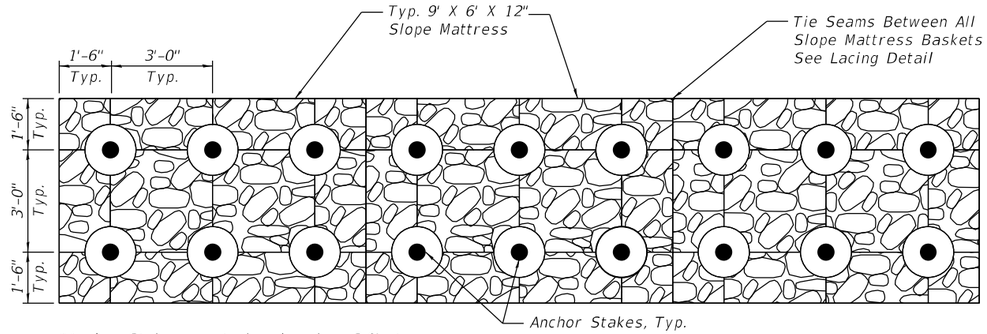
SLOPE MATTRESS SECURING DETAIL

NOTES:

1. Quantities and limits shown are estimated for bidding purpose only. The actual areas to be repaired and the type(s) of repairs to be used will be determined by the engineer in the field at the time of construction.
2. Slope Mattress assembly, installation, filling and lid-closing shall be in accordance with section 284 of the standard specifications.
3. Where a complete Slope Mattress unit cannot be installed as shown on the plans because of space limitations, the basket unit shall be cut, folded and wired together to suit site conditions.
4. All wire Fabric, basket assemblies, and tie wires shall be vinyl coated. all non-aluminum material shall be galvanized prior to vinyl coating.
5. Use Stone Riprap, class A3 in fill areas under the slope mattress as needed to bring the slope mattress to finish grade. the filter fabric shall be placed below this riprap.
6. Edge of water varies as water elevation fluctuates and the course of the river changes. no additional easements will be required.
7. Gabions (3 ft x 3 ft) are to be placed along the upstream and downstream edge of all slope mattress installations.



LACING DETAIL



*Anchor Stakes are to be placed on 3.0' cts. with an arrangement as shown above.

TYPICAL ANCHOR STAKE LAYOUT DETAIL

MODEL: Default
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Accurate GROUP, INC.

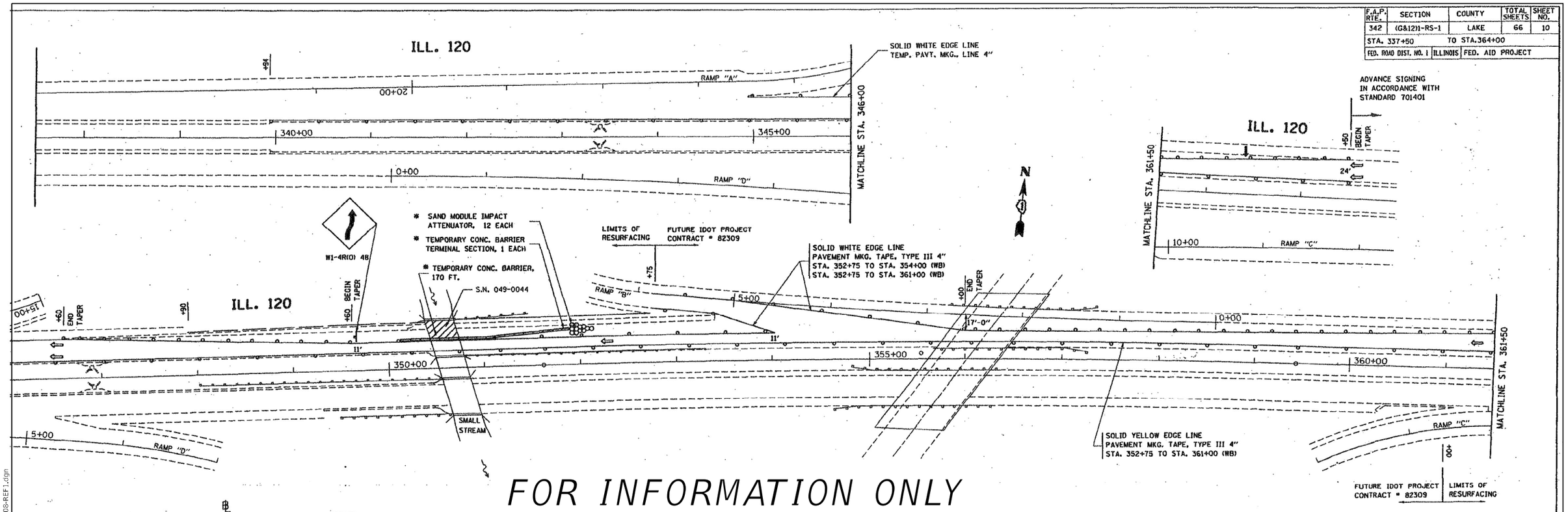
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PLOT DATE =	CHECKED - MAF	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

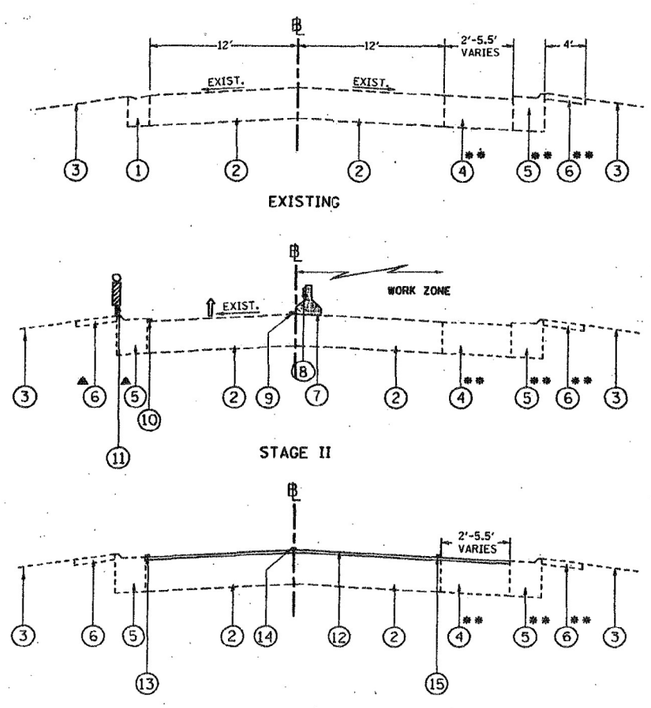
GABION MATTRESS DETAILS
STRUCTURE NUMBER 049-0044
SHEET SB-07 OF SB-10 SHEETS

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0333	2021-071-BDR	LAKE	131	61
		CONTRACT NO. 62P09		
	ILLINOIS	FED. AID PROJECT		

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
342	(G&121)-RS-1	LAKE	66	10
STA. 337+50	TO STA. 364+00			
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		



FOR INFORMATION ONLY



LEGEND:

1. EXISTING COMB. CURB & GUTTER, TYPE V TO BE REMOVED
2. EXISTING PCC PAVEMENT, 10"
3. EXISTING GROUND SOIL
4. TEMPORARY WIDENING (BITUMINOUS BASE COURSE 10")
5. COMBINATION CONCRETE CURB AND GUTTER, TYPE M-2.12
6. EROSION CONTROL BLANKET, SEEDING, CL 2A, FURNISHING AND PLACING TOP SOIL, 4"
7. TEMPORARY CONCRETE BARRIER (RELOCATED FROM STAGE I)
8. MONODIRECTIONAL PRISMATIC BARRIER REFLECTOR @ 25' CTS.
9. TEMPORARY PAVEMENT MARKING, LINE 4" YELLOW
10. TEMPORARY PAVEMENT MARKING, LINE 4" WHITE
11. VERTICAL PANEL WITH STEADY BURNING LIGHT @ 50' CTS.
12. PROP. OVERLAY (SEE TYPICAL SECTIONS)
13. SOLID YELLOW EDGE LINE, 4"
14. SOLID WHITE SKIP-DASH LINE, 4"
15. SOLID WHITE EDGE LINE, 4"

* RELOCATED FROM STAGE I, PAY ITEM: SAND MODULE IMPACT ATTENUATOR (RELOCATE)
RELOCATE TEMP. CONC. BARRIER

** CONSTRUCTED DURING ADVANCE WORK

▲ CONSTRUCTED IN STAGE I

LEGEND

- ARROW BOARD
- TRAFFIC FLOW
- TEMPORARY WIDENING
- SIGN
- DRUM WITH STEADY BURNING MONODIRECTION LIGHT @ 50' CTS. 25' CTS IN TAPERS AND ON CURVES
- VERTICAL PANEL WITH STEADY BURNING LIGHT @ 50' CTS, 25' CTS IN TAPERS AND ON CURVES
- WORK AREA

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

ILL. 120 (ALMOND RD. TO GREENLEAF ST.)
OVER SMALL STREAM
S.N. 049-0044
STAGE II PLAN

SCALE: VERT. 1" = 50'
HORIZ.
DATE 1/30/01

DRAWN BY: RK
CHECKED BY

9:14 2001

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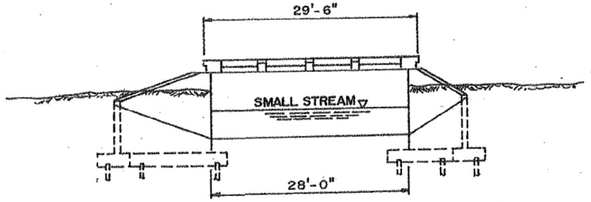
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING PLANS (SHEET 1 OF 3)
STRUCTURE NUMBER 049-0044
SHEET SB-08 OF SB-10 SHEETS

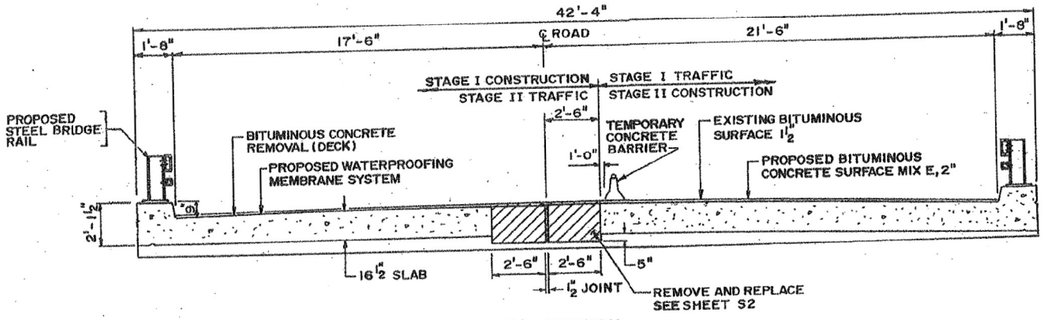
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		CONTRACT NO. 62P09		
	ILLINOIS	FED. AID PROJECT		

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
342	(68121)-RS-1	LAKE	66	31
STA.		TO STA.		
FED. ROAD DIST NO 7	ILLINOIS	FED. AID PROJECT		

SHEET S1 OF S3



ELEVATION



CROSS SECTION
S.N.049-0044

TOTAL - BILL OF MATERIAL

ITEM	UNIT	QUANTITY
WATERPROOFING MEMBRANE SYSTEM	SQ.YDS	128
POLYMERIZED BITUMINOUS CONCRETE SURFACE COURSE, SUPERPAVE, MIX "E", N90	TON	17
PLUG EXISTING DECK DRAINS	EACH	6
BITUMINOUS CONCRETE REMOVAL (DECK)	SQ.YDS	128
STEEL BRIDGE RAIL	FOOT	59
HANDRAIL CONCRETE REMOVAL	FOOT	59
CONCRETE SUPERSTRUCTURE	CU.YDS	8
CONCRETE REMOVAL	CU.YDS	10
REINFORCEMENT BARS (EPOXY COATED)	POUND	2065
RELOCATING NAME PLATES	EACH	1
* DECK SLAB REPAIR (PARTIAL)	SQ.YD	15
* DECK SLAB REPAIR (FULL DEPTH TYPE I)	SQ.YD	3

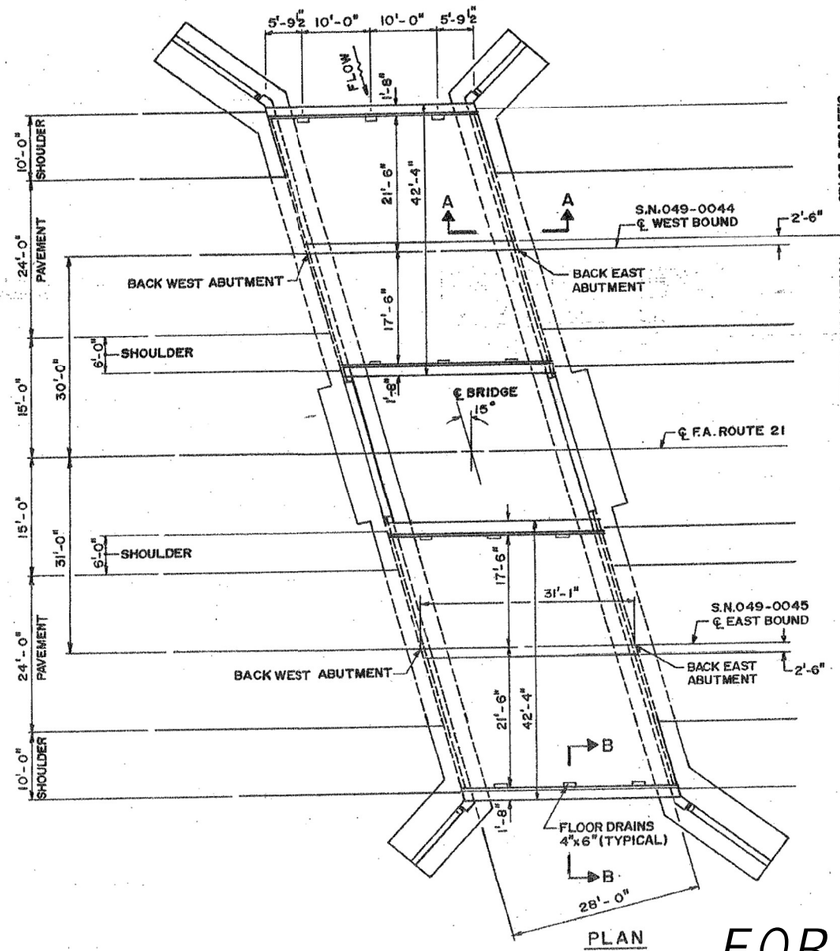
NOTES:

PLAN DIMENSIONS AND DETAILS RELATIVE TO THE EXISTING STRUCTURE HAVE BEEN TAKEN FROM EXISTING PLANS AND ARE SUBJECT TO NOMINAL CONSTRUCTION VARIATIONS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY SUCH DIMENSION AND DETAILS IN THE FIELD AND MAKE NECESSARY APPROVED ADJUSTMENTS PRIOR TO CONSTRUCTION OR ORDERING OF MATERIALS. SUCH VARIATION SHALL NOT BE CAUSE FOR ADDITIONAL COMPENSATION FOR A CHANGE IN THE SCOPE OF WORK, HOWEVER, THE UNIT BID PRICE FOR THE WORK.

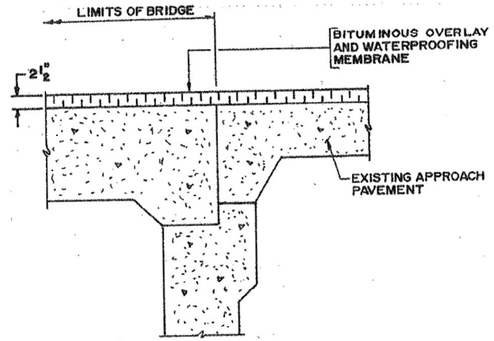
ANY REINFORCEMENT BARS THAT ARE DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED WITH AN APPROVED BAR SPLICER OR ANCHORAGE SYSTEM. COST INCLUDED WITH CONCRETE REMOVAL

REINFORCEMENT BARS SHALL CONFORM TO THE REQUIREMENT OF AASHTO, M-31, M-42, OR M-53 GRADE 60.

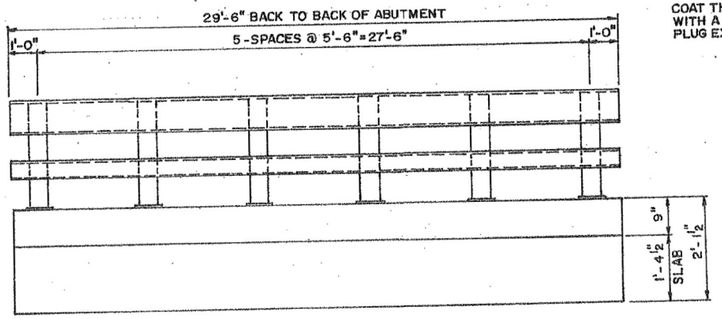
* DECK REPAIRS ARE ESTIMATED, ACTUAL QUANTITIES AND LOCATIONS TO BE DETERMINED BY THE ENGINEER AND SHALL BE INCLUDED IN THE AS-BUILT PLANS.



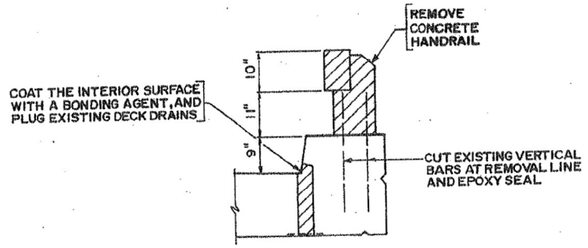
PLAN



SECTION "A-A"



ELEVATION
BRIDGE RAIL POST SPACINGS



SECTION "B-B"

FOR INFORMATION ONLY

REVISIONS	
NAME	DATE
Thomas M. Slattery	5/1999

ILLINOIS DEPARTMENT OF TRANSPORTATION

ILLINOIS 120
OVER SMALL STREAM
PLAN, ELEVATION, CROSS SECTIONS AND DETAILS
S.N.049-0044

SCALE: VERT. HORIZ. DRAWN BY MVT
DATE FEBRUARY, 1999 CHECKED BY TMS

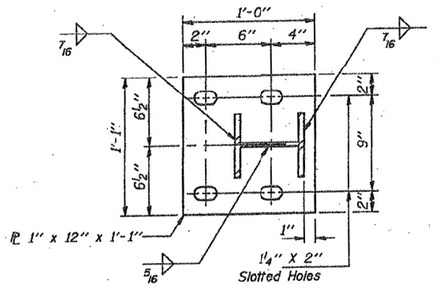
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		CHECKED - MAF	REVISED -	
	PLOT SCALE =	DRAWN - ME	REVISED -	
	PLOT DATE =	CHECKED - MAF	REVISED -	

EXISTING PLANS (SHEET 2 OF 3)
STRUCTURE NUMBER 049-0044
SHEET SB-09 OF SB-10 SHEETS

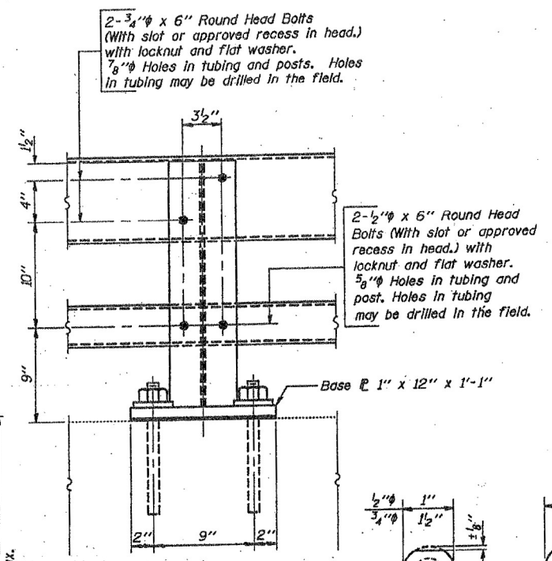
F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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		CONTRACT NO. 62P09		
		ILLINOIS	FED. AID PROJECT	

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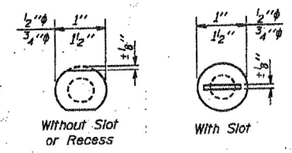
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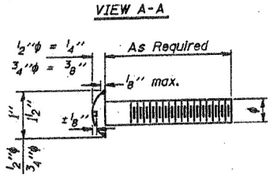
BASE PLATE DETAIL



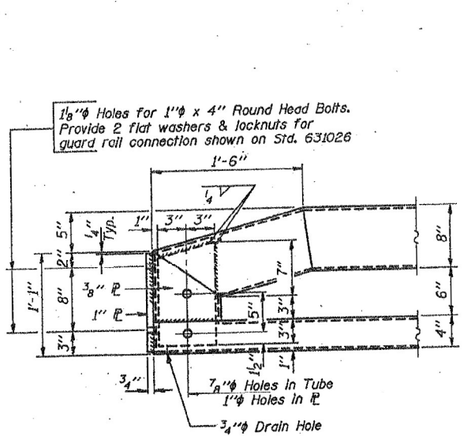
SECTION A-A



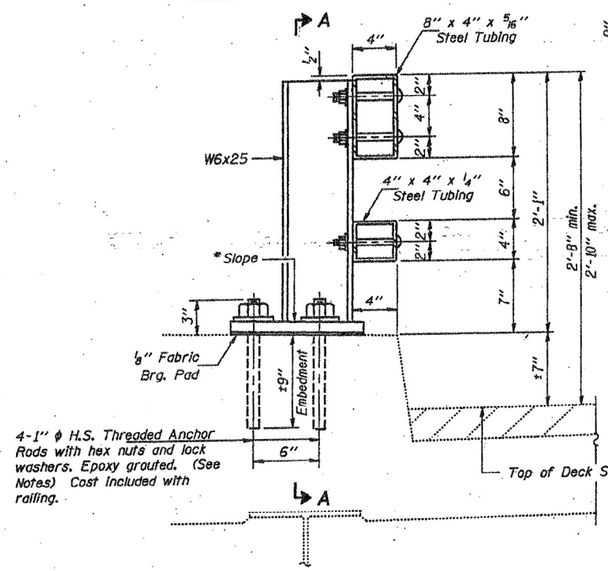
VIEW A-A



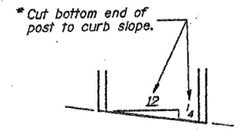
DETAIL OF ½"ϕ & ¾"ϕ ROUND HEAD BOLTS

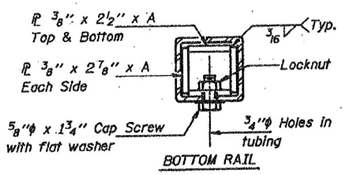


END OF RAIL DETAILS



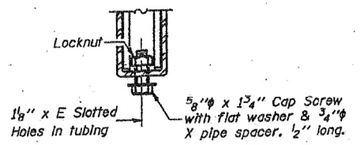
SECTION AT RAIL POST



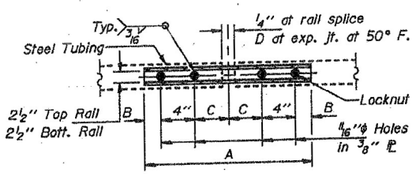


SECTIONS AT RAIL SPLICE

(6'-3" Maximum Post Spacing)



RAIL SPLICE CONNECTION AT EXPANSION JT.



PLAN-BOTT. SPLICE PL TYPICAL

NOTES

Hollow structural steel tubing shall conform to the requirements of ASTM designation A 500, Grade B, Structural Steel Tubing and shall meet the longitudinal CVN requirements of 15 ft-lbs at 0°F.

All other steel shapes and plates shall conform to the requirements of AASHTO M 270 Grade 36 except posts shall conform to AASHTO M 270, Grade 50.

Bolts, cap screws and nuts shall conform to the requirements of ASTM designation A 307 except that threaded rods, nuts and washers shall conform to AASHTO M 164.

All bolts, nuts, cap screws, washers and lock washers shall be galvanized according to AASHTO M 232.

All posts, railing, rail splices and anchor rods shall be galvanized after shop fabrication according to AASHTO M 111 and ASTM A 385. Galvanized rail shall not be painted.

Railing shall be according to Section 509 of the Standard Specifications, except as noted, and will be paid for at the contract unit price per foot for STEEL BRIDGE RAIL.

All field drilled holes shall be coated with an approved zinc rich paint before erection.

Posts shall not be located closer than 1'-3" to an existing bridge expansion joint or end of bridge.

STEEL BRIDGE RAIL expansion joint shall be provided between any two (2) posts which span a bridge expansion joint. Bolts located at expansion joint shall be provided with locknuts and shall be tightened only to a point that will allow railing movement.

Provide one ⅛" and two 1/16" steel shims for 25% of the posts. Shims shall be similar to base plates in size and holes.

Expansion joint width shall be "D" at 50° F and shall be adjusted for other temperatures according to Article 503.10(c) of the Standard Specifications.

The Contractor shall use the capsule or the adhesive cartridge type anchor rods that have been previously tested and given a prior approval by the Department. The Contractor shall install these anchor rods in pre-drilled holes according to the manufacturer's recommendations and procedures.

The capsule or the adhesive cartridge shall be a sealed glass capsule or a sealed glass adhesive cartridge containing premeasured amounts of the adhesive chemical.

Nuts for 1"ϕ threaded anchor rods connecting the base plate to the concrete shall be tightened to a snug fit and given an additional ⅓ turn.

BILL OF MATERIAL

Item	Unit	Quantity
Steel Bridge Rail	Foot	59

SPLICE DIMENSIONS

T	D	A	B	C	E
≤4"	2½"	1'-8"	2"	4"	2½"
>4" ≤6½"	3¾"	2'-0"	2½"	5½"	3½"
>6½" ≤9"	5"	2'-4"	3½"	6½"	9"
>9" ≤13"	7"	2'-10"	4½"	8½"	11"
Rail Splice	¼"	1'-8"	2"	4"	—

T = Total movement at expansion joint as shown on the design plans.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

IL 120 (EB & WB)
OVER SMALL STREAM
STEEL BRIDGE RAIL-CURB MOUNTED
TYPE 2399
S.N. 049-0044

SCALE: NONE
DATE 12/02/98
DRAWN BY CADD
CHECKED BY TMS

R-31 4-30-97

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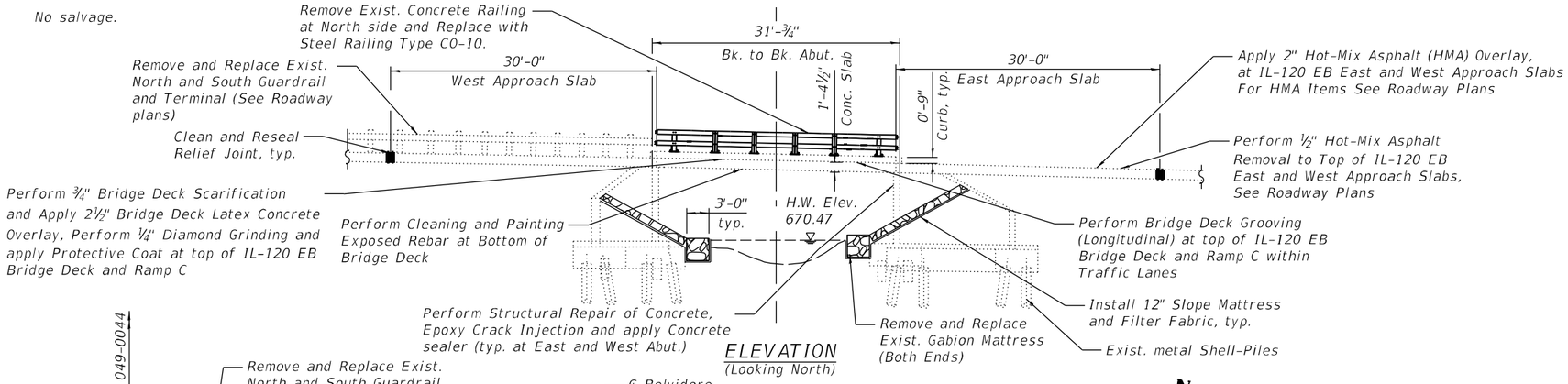
EXISTING PLANS (SHEET 3 OF 3)
STRUCTURE NUMBER 049-0044
SHEET SB-10 OF SB-10 SHEETS

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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		CONTRACT NO. 62P09		
		ILLINOIS	FED. AID PROJECT	

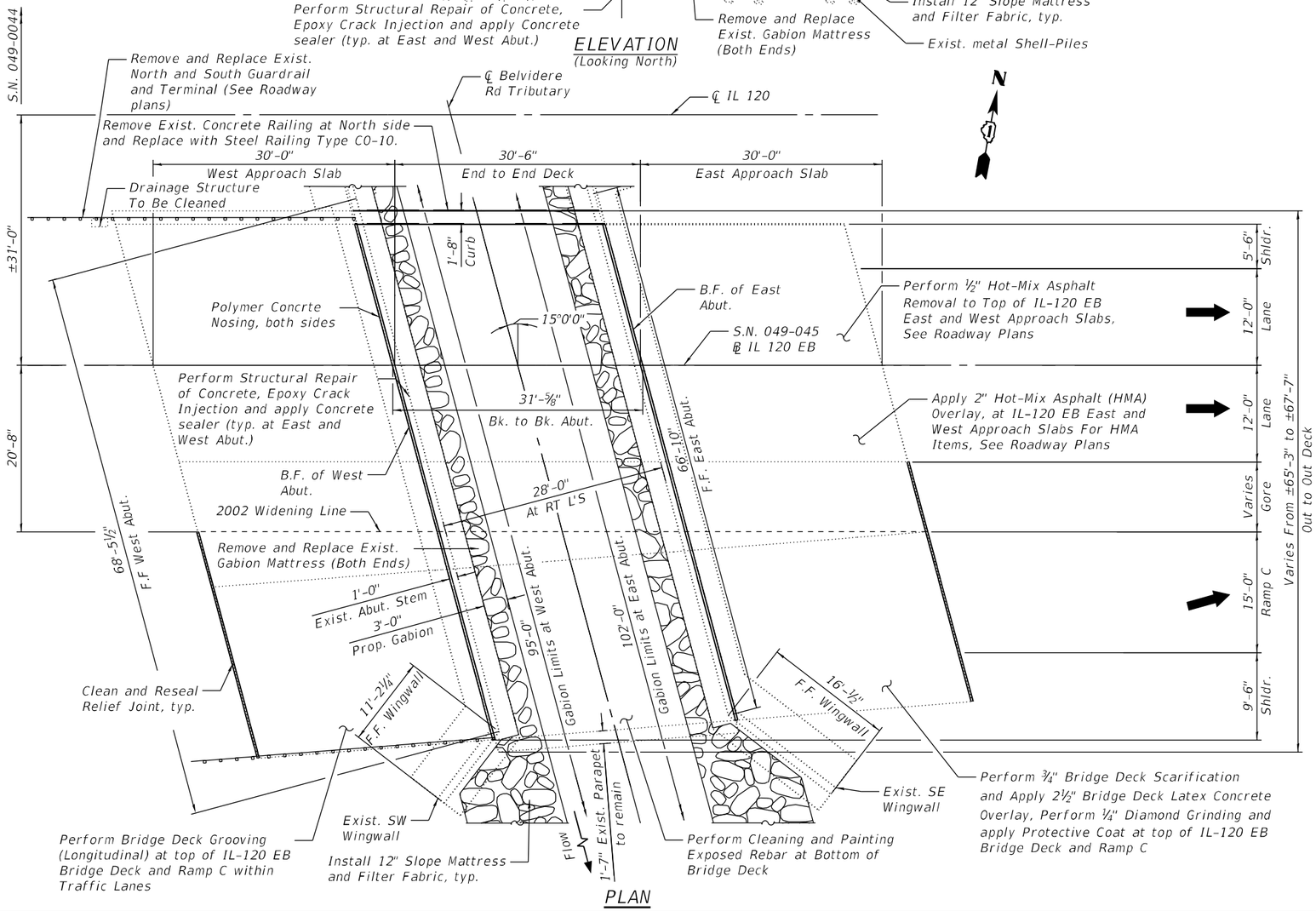
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Existing Structure: The existing Structure No. 049-0045 a single span bridge, located at Eastbound Illinois Route 120 over Belvidere Road Tributary. It was originally built in 1960 under Contract F-43(15) and rehabilitated in 2002 under Contract C-91-355-96. The Bridge has out to out width varying from ±65'-2½" to ±67'-7½" and overall length of 31'-¾" between back faces of abutments. The south end of the existing deck slab was widened 25'-3" to the south to accommodate the new Illinois Route 21 Ramp C to eastbound Illinois Route 120. The existing curb and concrete handrail at the south end of the structure was removed and replaced with a new 34" F-Shape parapet. The wingwalls at the south end of the structure were removed and replaced, and the abutments were extended to the south. In 2012 Engineered scour countermeasures were placed underneath the structure by placing riprap and gabion mattresses throughout the channel and along the abutment footings to prevent further scour and streambed degradation. In 2015 Deck sealing was performed on the Bridge.

No salvage.



ELEVATION
(Looking North)



PLAN

NOTES

1. For General Notes, Index of sheets and TBOM see sheet SC-02.
2. For Gabion Mattress Repair limits and details, See Sheet SC-07.

LOADING

No Future Wearing Surface Allowed, HS20.

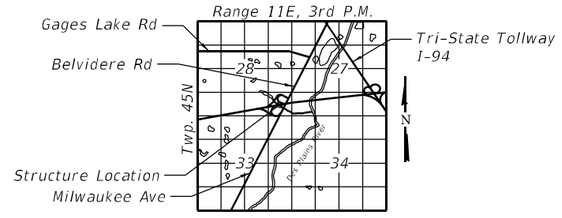
HIGHWAY CLASSIFICATION

Eastbound Illinois Route 120
Functional Class: Other Principal Arterial
ADT: 17,750 (2016) / 24,000 (2040)
ADTT: 3,362 (2016) /4,546 (2040)
DHV: 1,775 (20160
Design Speed: 60 M.P.H
Posted Speed: 55 M.P.H
One-Way Traffic

STATE OF ILLINOIS
MAEN A. FARHAT
081.008545
LICENSED STRUCTURAL ENGINEER

Signed:

MAEN A. FARHAT, SE
IL Lic. No.: 081-008545
Expires: 11/30/2024



LOCATION SKETCH

GENERAL PLAN AND ELEVATION
EB IL 120 OVER BELVIDERE RD TRIBUTARY
F.A.P. 0333 SECTION 2021-071-BDR
LAKE COUNTY
STATION: 712+24.25
S.N. 049-0045

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STRUCTURE NUMBER 049-0045
SHEET SC-01 OF SC-11 SHEETS

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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		CONTRACT NO. 62P09		
		ILLINOIS	FED. AID PROJECT	

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GENERAL NOTES

1. 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.

2. All exposed concrete edges shall have a ¾"x45° chamfer, except where shown otherwise.

3. Protective Coat shall be applied to the top and inside face of parapets, and to the surface of the new Latex Concrete overlay.

4. Concrete Sealer shall be applied to the designated areas of the abutments.

5. Layout of the Gabion mattress system may be varied to suit ground conditions in the field as directed by the engineer.

6. For HMA Removal and Overlay on Approach slabs, See Roadway Plans.

SCOPE OF WORK

1. Perform Hot-Mix Asphalt Removal ½" at East and West Approach Slabs of EB IL-120 (See Roadway Plans).

2. Scarify ¾" from the Bridge Deck Slab and Ramp C.

3. Perform Partial-depth Repairs to the Bridge Deck Slab and Approach Slabs.

4. Clean & Reseal Relief Joint at East and West Ends.

5. Apply 2½" Bridge Deck Latex Concrete Overlay on IL-120 EB Bridge Deck and Ramp C, and 2" Hot-Mix Asphalt (HMA) Overlay on the Approach Slabs, See roadway plans.

6. Perform ¼" Diamond Grinding to top of IL-120 EB Bridge Deck and Ramp C.

7. Perform Bridge Deck Grooving (Longitudinal) at IL-120 EB Bridge Deck and Ramp C within Traffic Lanes.

8. Perform Cleaning and Painting Exposed Reinforcement at the Bottom of Deck.

9. Apply Protective Coat to the top and inside Faces of Parapets to the top Surface of Latex Concrete Overlay.

10. Perform Structural Repair of Concrete, Epoxy Crack Injection, and apply Concrete Sealer to Abutments as noted on plans.

11. Remove Existing Gabion Mattress along the Front Face of Abutments.

12. Place Filter Fabric along the Front Face of Abutments and Wingwall as shown on the plans.

13. Install Proposed Gabions and 12" Slope Mattress at the Front Face of East and West Wingwalls.

INDEX OF SHEETS

SC-01	General Plan and Elevation
SC-02	General Notes, Index Of Sheets and TBOM
SC-03	Bridge Deck and Approach Slabs Repair Plan
SC-04	Parapet Removal and Replacement
SC-05	East and West Abutment Repairs
SC-06	Steel Railing Details, Type C0-10
SC-07	Gabion Mattress Details
SC-08	Existing Plans (Sheet 1 of 4)
SC-09	Existing Plans (Sheet 2 of 4)
SC-10	Existing Plans (Sheet 3 of 4)
SC-11	Existing Plans (Sheet 4 of 4)

ABBREVIATIONS

Abut.	Abutment	L'S	Angle
B.F.	Back Face	Prop.	Proposed
Bk.	Back	Rd	Roadway
℄	Centerline	Rt.	Right
Cl.	Clear	Shldr.	Shoulder
Conc.	Concrete	S.N.	Structure Number
Elev.	Elevation	Spa.	Spacing
Exist.	Existing	Sta.	Station
F.F.	Front Face.	Typ.	Typical
H.W.	High Water	Ø	Diameter
Jt.	Joint		

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Filter Fabric	Sq Yd	-	196	196
Gabions	Cu Yd	-	66	66
Slope Mattress 12"	Sq Yd	-	39	39
Concrete Removal	Cu Yd	1.0	-	1.0
Protective Coat	Sq Yd	428	-	428
Steel Railing, Type C0-10	Foot	32	-	32
Anchor Bolts, 1"	Each	24	-	24
Concrete Sealer	Sq Ft	-	1251	1251
Epoxy Crack Injection	Foot	-	42	42
Clean & Reseal Relief Joint	Foot	60	-	60
Gabion Removal	Cu Yd	-	66	66
Bridge Deck Grooving (Longitudinal)	Sq Yd	222	-	222
Cleaning And Painting Exposed Rebar	Sq Ft	83	-	83
Bridge Deck Latex Concrete Overlay, 2½ Inches	Sq Yd	408	-	408
Bridge Deck Scarification ¾"	Sq Yd	408	-	408
Structural Repair of Concrete (Depth Equal to or less than 5")	Sq Ft	-	43	43
Drainage Structures To Be Cleaned	Each	1	-	1
Diamond Grinding (Bridge Section)	Sq Yd	394	-	394
Polymer Concrete	Cu Ft	7.9	-	7.9

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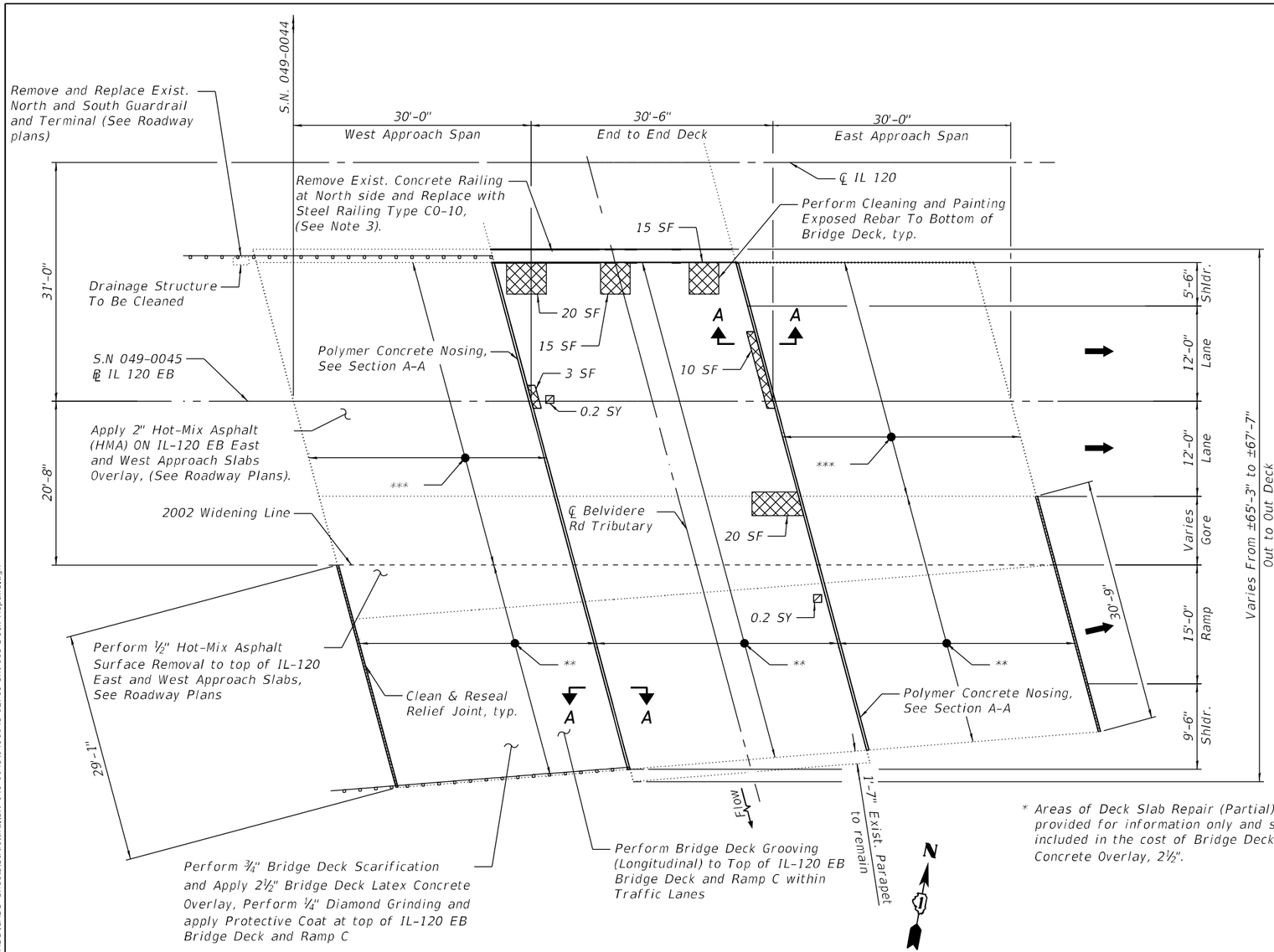
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GENERAL NOTES, INDEX OF SHEETS & TBOM
STRUCTURE NUMBER 049-0045

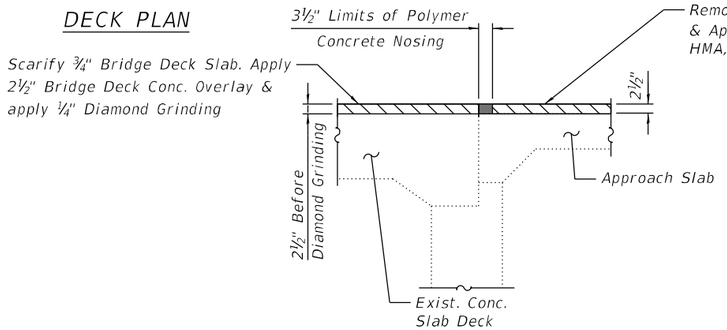
SHEET SC-02 OF SC-11 SHEETS

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0333	2021-071-BDR	LAKE	131	66
		CONTRACT NO. 62P09		
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DECK PLAN

* Areas of Deck Slab Repair (Partial) are provided for information only and shall be included in the cost of Bridge Deck Latex Concrete Overlay, 2½".



SECTION A-A

BILL OF MATERIAL

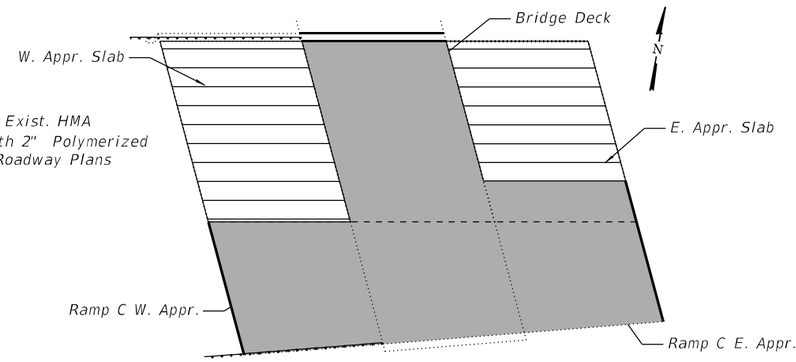
ITEM	UNIT	Quantity
Protective Coat	Sq Yd	428
Clean & Reseal Relief Joint	Foot	60
Bridge Deck Grooving (Longitudinal)	Sq Yd	222
Cleaning And Painting Exposed Rebar	Sq Ft	83
Bridge Deck Latex Concrete Overlay, 2½ Inches	Sq Yd	408
Concrete Bridge Deck Scarification ¾"	Sq Yd	408
Drainage Structures To Be Cleaned	Each	1
Diamond Grinding (Bridge Section)	Sq Yd	394
Polymer Concrete	Cu Ft	7.9

LEGEND

- *Deck Slab Repair (Partial Depth)
- Cleaning and Painting Exposed Rebar
- **
- ***
- Polymer Concrete Nosing
- SF Square Foot
- SY Square Yard

**Limits of 3/4" Bridge Deck Scarification and 2½" Bridge Latex Concrete Overlay and ¼" Diamond Grinding.

***Limits of ½" HMA Removal and 2" Hot-Mix Asphalt (HMA) Overlay. For HMA Items See Roadway Plans



SCARIFICATION, LATEX OVERLAY AND HMA REMOVAL KEY MAP

NOTES

1. Quantities and limits shown are estimated for bidding purpose only. The actual areas to be repaired and the type(s) of repairs to be used will be determined by the engineer in the field at the time of construction.
2. Protective Coat shall be applied to top and inside face of South concrete Parapet, North curb, and top of Latex Concrete Overlay.
3. See Sheet SC-05 of SC-11 for Steel Rail replacement details and quantities.
4. For Butt Joint Details, See Roadway Plans.

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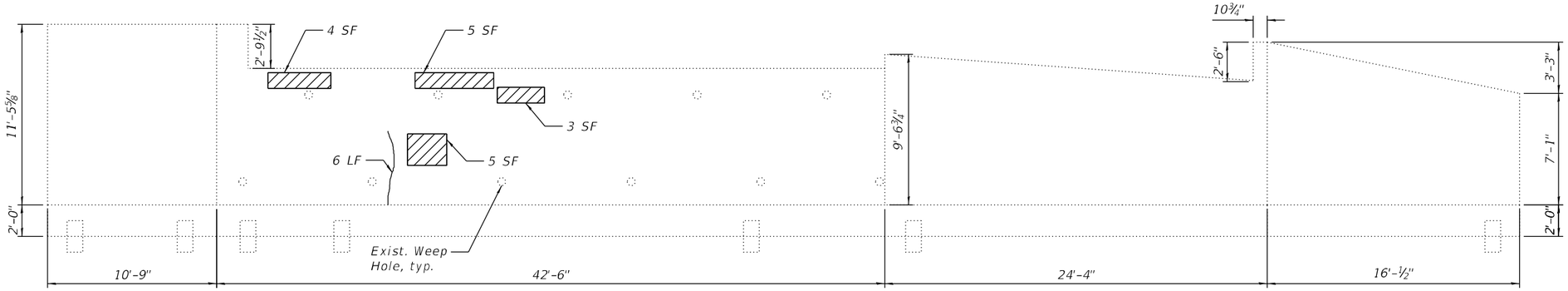
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BRIDGE DECK AND APPROACH SLABS REPAIR PLAN
STRUCTURE NUMBER 049-0045
SHEET SC-03 OF SC-11 SHEETS

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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		CONTRACT NO. 62P09		
	ILLINOIS FED. AID PROJECT			

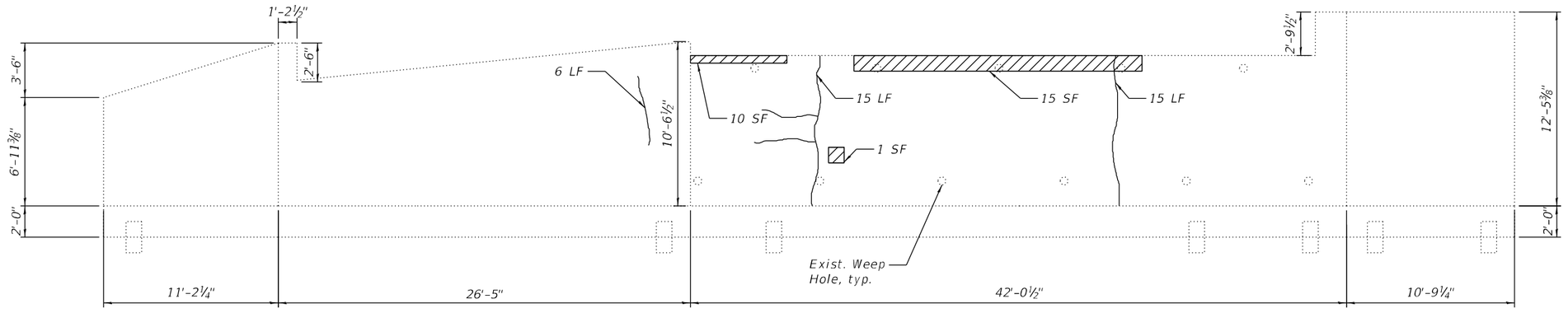


EAST ABUTMENT ELEVATION

(Looking East)

EAST ABUTMENT BILL OF MATERIAL

ITEM	UNIT	Quantity
Concrete Sealer	Sq Ft	589
Epoxy Crack Injection	Foot	6
Structural Repair of Concrete (Depth Equal to or Less than 5 Inches)	Sq Ft	17



WEST ABUTMENT ELEVATION

(Looking West)

WEST ABUTMENT BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Concrete Sealer	Sq Ft	662
Epoxy Crack Injection	Foot	36
Structural Repair of Concrete (Depth Equal to or Less than 5 Inches)	Sq Ft	26

NOTES

1. For General Notes, Index of Sheets and Total Bill of Material, See Sheet SC-02 of SC-11.
2. Quantities and limits shown are estimated for bidding purpose only. The actual areas to be repaired and the type(s) of repairs to be used will be determined by the engineer in the field at the time of construction.
3. Concrete Sealer is to be applied to the abutment stem.

LEGEND

- Structural Repair of Concrete (Depth Equal to or less than 5")
- Epoxy Crack Injection (width > 0.06")
- SF Square Foot
- LF Linear Foot

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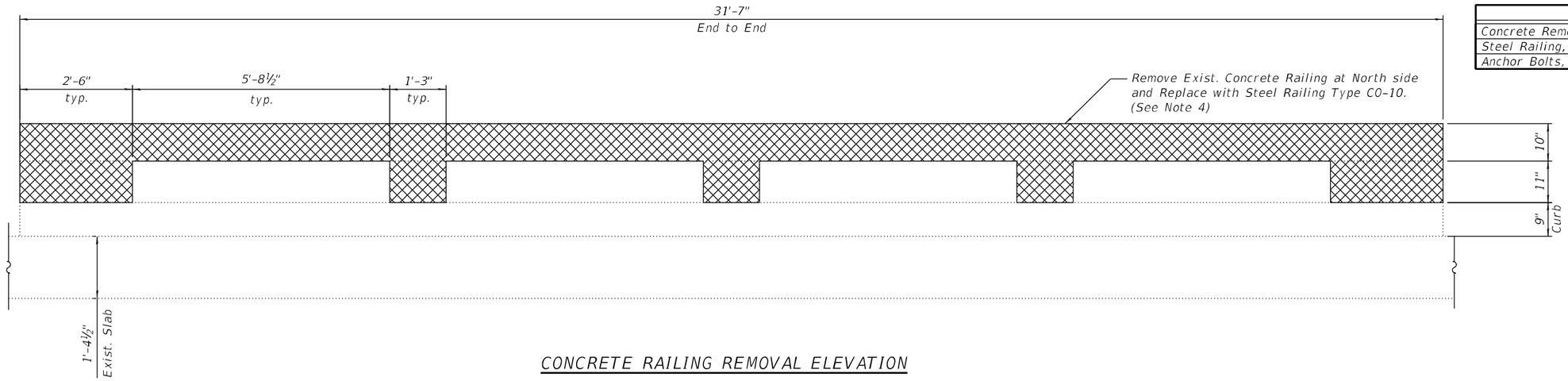
EAST AND WEST ABUTMENT REPAIRS
STRUCTURE NUMBER 049-0045

SHEET SC-04 OF SC-11 SHEETS

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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	ILLINOIS	FED. AID PROJECT		

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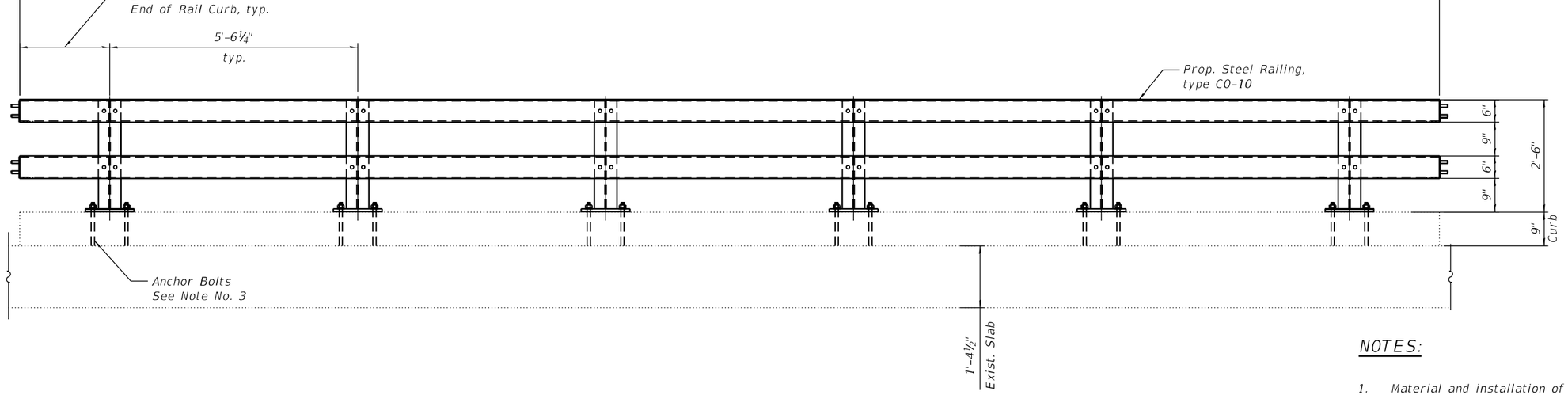
ITEM	UNIT	QUANTITY
Concrete Removal	Cu Yd	1
Steel Railing, Type C0-10	FOOT	32
Anchor Bolts, 1"	Each	24



CONCRETE RAILING REMOVAL ELEVATION

LEGEND

Concrete Removal



PROPOSED STEEL RAILING ELEVATION

NOTES:

1. Material and installation of washers, base plates, and fabric reinforced elastomeric pads shall be included in the Contract unit price for Steel Railing, C0-10.
2. For Steel Railing, Type C0-10 and Anchor Bolt Details, see Sheet SC-06.
3. Epoxy Grout Anchor Bolts according to article 584 of Standard Specification. Drill to miss existing reinforcement. Cost included in steel railing, type C0-10. See sheet SC-06 for Anchor Bolt configuration.
4. Cut existing reinforcement bars extending from the curb to the concrete railing to be removed flush with the top of curb. Paint the ends of these bars before placing the new steel railing.

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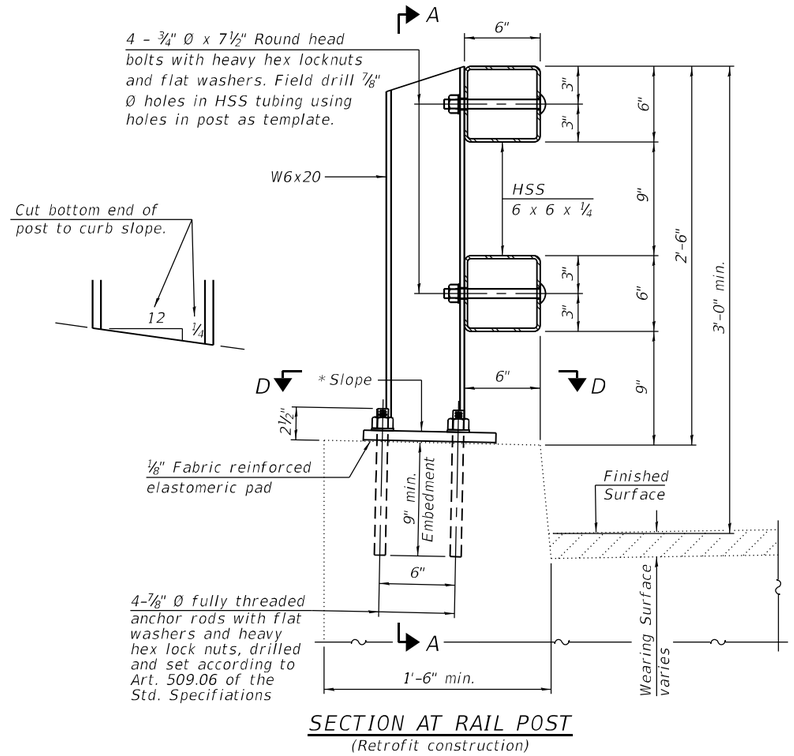
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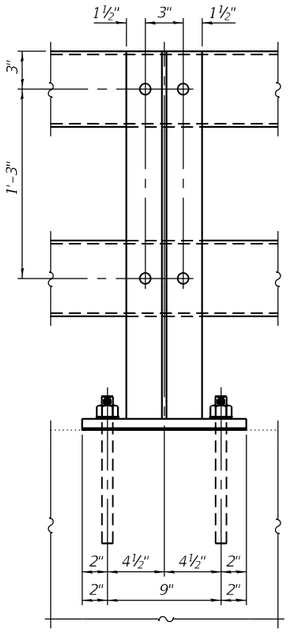
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PARAPET REMOVAL AND REPLACEMENT
STRUCTURE NUMBER 016-0045
SHEET SC-05 OF SC-11 SHEETS

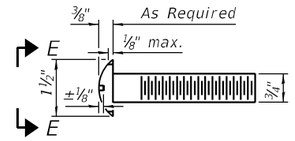
F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0333	G-12-1B	LAKE	131	69
		CONTRACT NO. 62P09		
	ILLINOIS FED. AID PROJECT			



SECTION AT RAIL POST
(Retrofit construction)



SECTION A-A



ROUND HEAD BOLT DETAIL

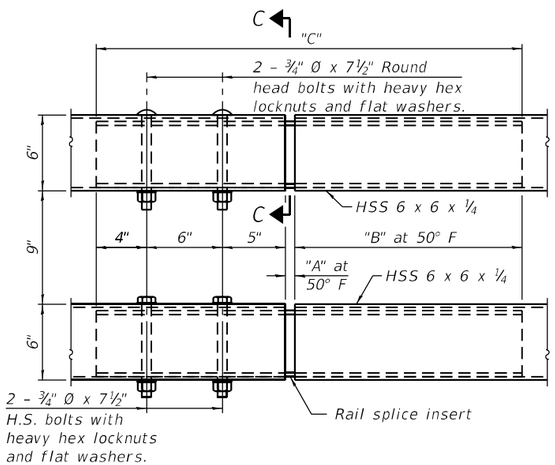


With Slot (shown) or Approved Recess

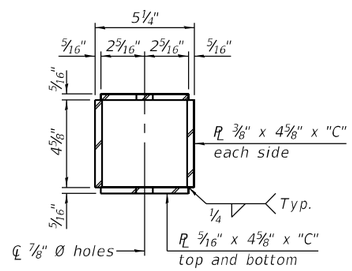
Without Slot or Recess

VIEW E-E

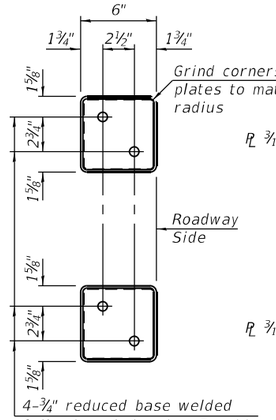
1. All HSS tubing shall be ASTM A500 grade C.
2. All plates shall be AASHTO M270 grade 50.
3. All heavy hex nuts shall be according to ASTM A563 grade DH.
4. All fully threaded anchor rods shall be ASTM F1554 grade 105.
5. The post base plate shall be fastened to the curb snug tight and given an additional ⅛" turn.
6. Posts shall not be located closer than 2'-6" to a bridge expansion joint.
7. Provide one ⅛" and two 1/16" steel shims for 25% of the posts. Shims shall be similar to base plates in size and holes.
8. All steel rail elements shall be galvanized according to Article 509.05 of the Standard Specifications.
9. All HSS tubing shall be CVN tested according to Article 1006.34(b) of the Standard Specifications.
10. Rail splice inserts may be built out of 2 -⅜" bent plates in lieu of the 4 plate rail splice inserts shown, provided the outside dimensions are matched.
11. All round head bolts shall be ASTM A449. The centerline of rail splices shall be placed between 1'-8" to 2'-6" from the centerline of the posts.
12. The free end of the splice tube shall be oriented away from the closest post.



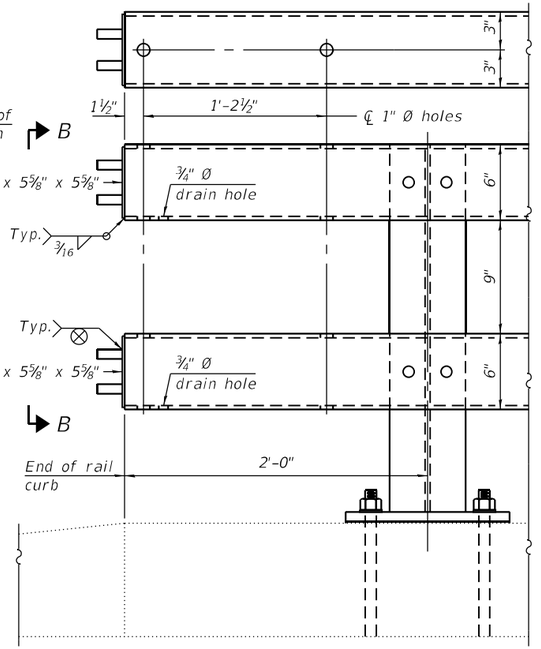
TOP AND BOTTOM RAIL SPLICE ELEVATION



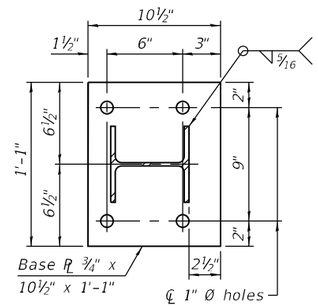
SECTION C-C



VIEW B-B



END OF RAIL DETAILS



SECTION D-D

RAILING CRITERIA

MASH 2016 Test Level	4
Railing Weight (plf)	75
Min f'c (psi)	4,500
Post Spacing Range	6'-8" - 10'-0"

SPLICE DIMENSIONS

Location	T	A	B	C
All locs. not over exp. jts.	0	½"	1'-6"	2'-9½"
Over Strip Seal Jt.	≤4"	2½"	1'-8"	3'-1½"
Over Finger or Modular Jt.	≤9½"	5½"	1'-10¾"	3'-7¼"
Over Finger or Modular Jt.	≤15"	8¼"	2'-1½"	4'-0¾"

T = ; total movement along centerline of roadway at expansion joint.

BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Steel Railing, Type CO-10	Foot	32

R-42 10-12-2021

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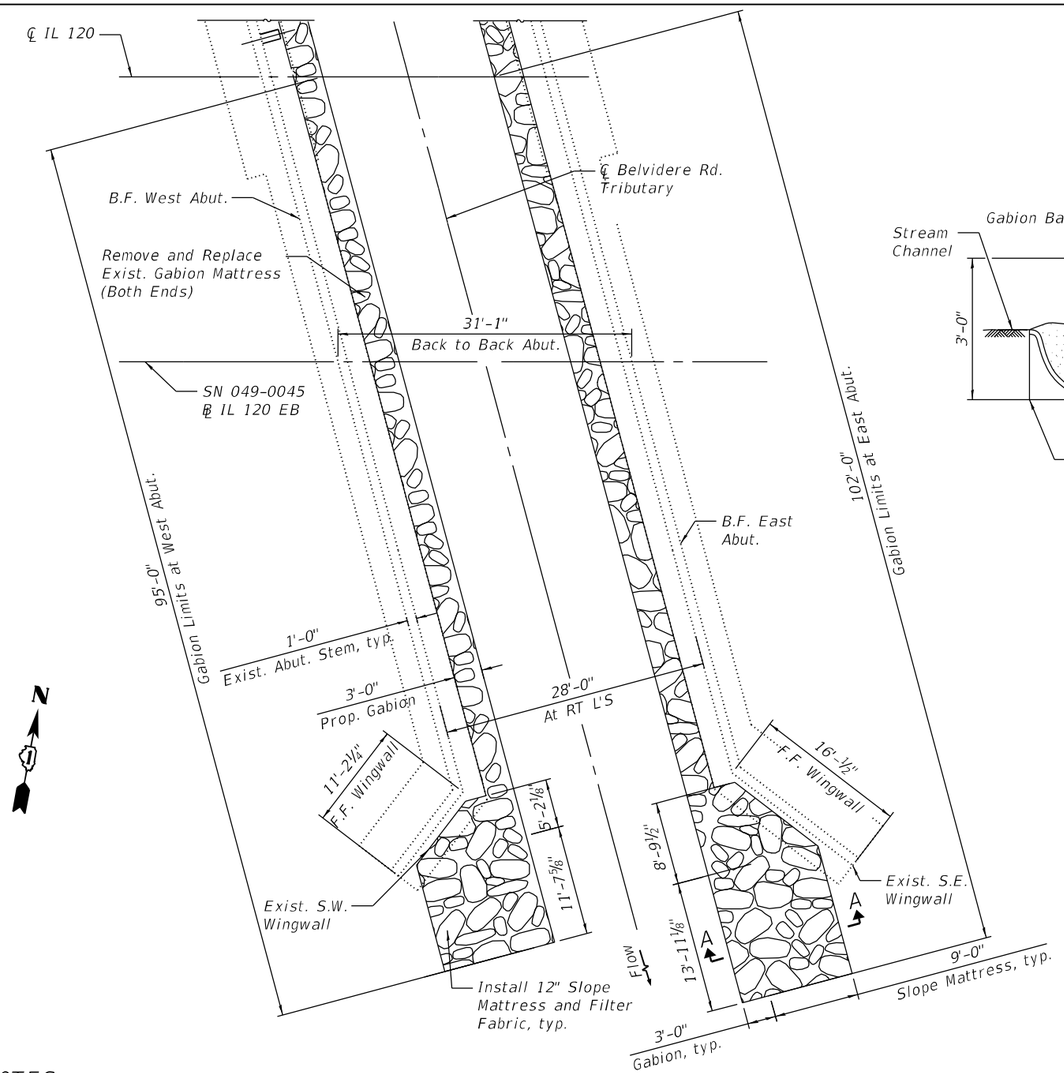
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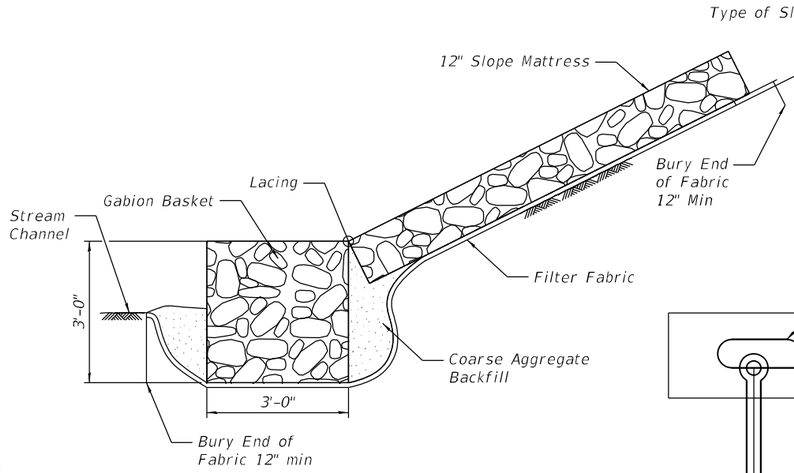
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STEEL RAILING, TYPE CO-10
STRUCTURE NO. 049-0045
SHEET SC-06 OF SC-11 SHEETS

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0333	2021-071-BDR	LAKE	131	70
		CONTRACT NO. 62P09		
		ILLINOIS	FED. AID PROJECT	

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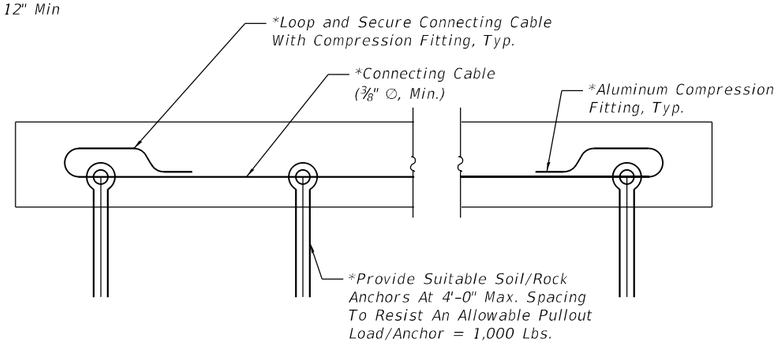




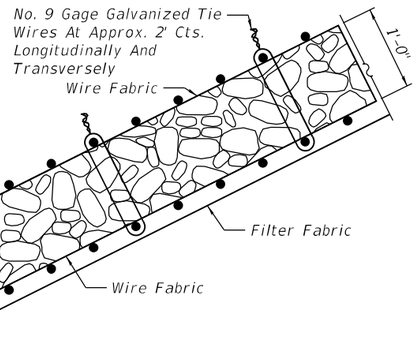
SECTION A-A

BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Filter Fabric	Sq Yd	196
Gabions	Cu Yd	66
Slope Mattress 12"	Sq Yd	39
Gabion Removal	Cu Yd	66



*Included in The Cost of Slope Mattress 12"

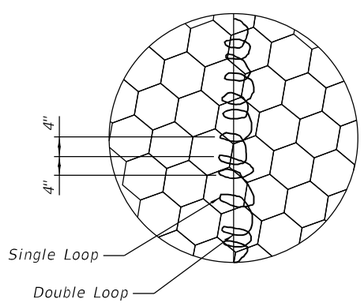


SLOPE MATTRESS SECURING DETAIL

NOTES:

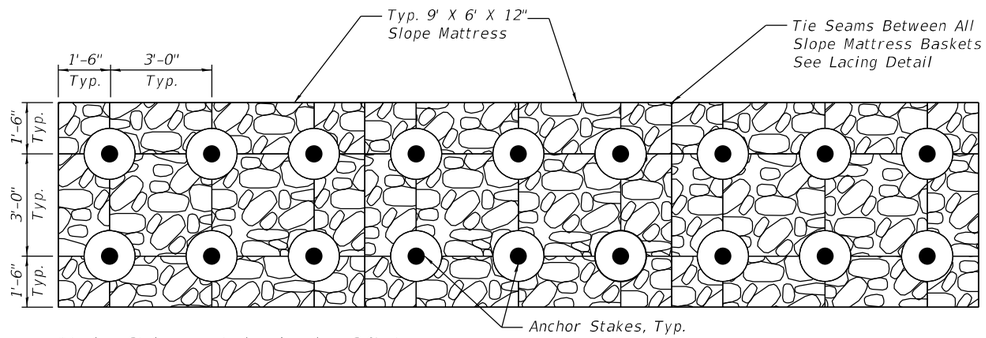
1. Quantities and limits shown are estimated for bidding purpose only. The actual areas to be repaired and the type(s) of repairs to be used will be determined by the engineer in the field at the time of construction.
2. Slope Mattress assembly, installation, filling and lid-closing shall be in accordance with section 284 of the standard specifications.
3. Where a complete Slope Mattress unit cannot be installed as shown on the plans because of space limitations, the basket unit shall be cut, folded and wired together to suit site conditions.
4. All wire Fabric, basket assemblies, and tie wires shall be vinyl coated. all non-aluminum material shall be galvanized prior to vinyl coating.
5. Use Stone Riprap, class A3 in fill areas under the slope mattress as needed to bring the slope mattress to finish grade. the filter fabric shall be placed below this riprap.
6. Edge of water varies as water elevation fluctuates and the course of the river changes. no additional easements will be required.
7. Gabions (3 ft x 3 ft) are to be placed along the upstream and downstream edge of all slope mattress installations.

SLOPE PROTECTION LAYOUT



LACING DETAIL

SLOPE PROTECTION LAYOUT



*Anchor Stakes are to be placed on 3.0' cts. with an arrangement as shown above.

TYPICAL ANCHOR STAKE LAYOUT DETAIL

MODEL: Default
FILE NAME: Q:\Engineering\LiveProjects\20005_IDOT DIR\WO 39 - IL 120 at IL 21\CADD\CADD Sheets\Structural\SN 049-0045\049004S-62P09-Sht-007-Gabion Work Details.dgn
8/28/2023 12:32:55 PM

Accurate GROUP, INC.

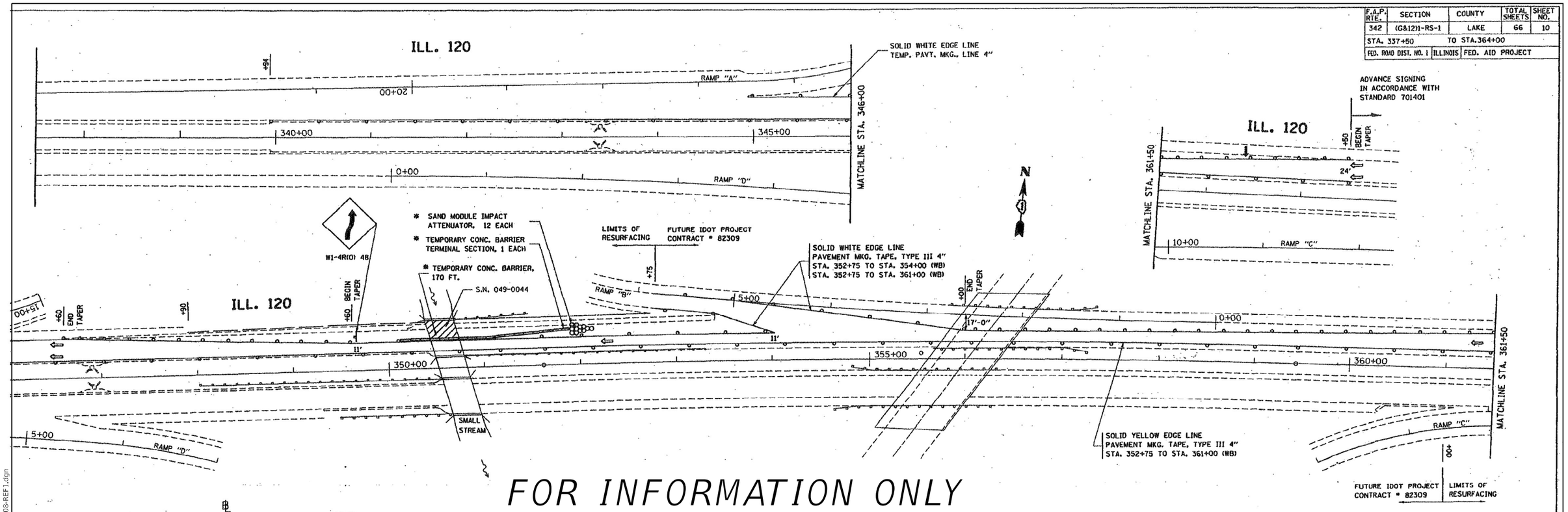
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	CHECKED - MAF	REVISED -	
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PLOT DATE =	CHECKED - MAF	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

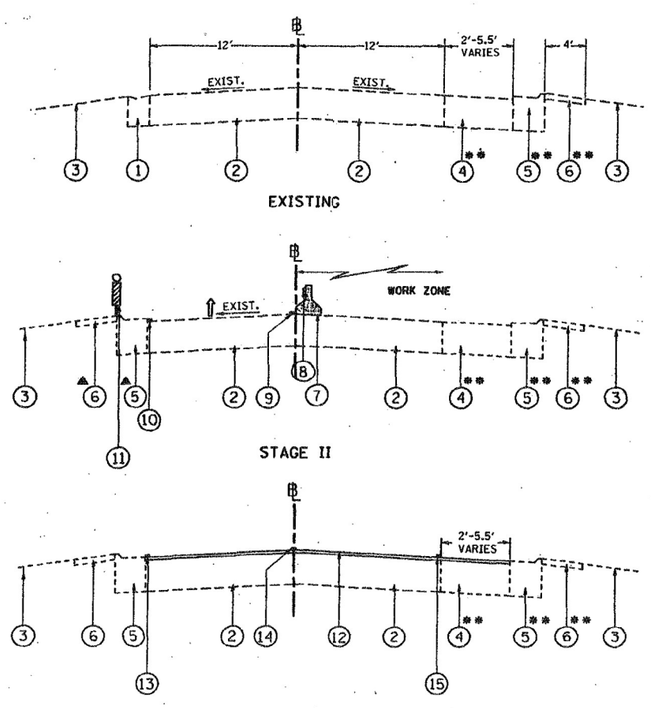
GABION MATTRESS DETAILS
STRUCTURE NUMBER 049-0045
SHEET SC-07 OF SC-11 SHEETS

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0333	2021-071-BDR	LAKE	131	71
		CONTRACT NO. 62P09		
		ILLINOIS	FED. AID PROJECT	

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
342	(G&121)-RS-1	LAKE	66	10
STA. 337+50	TO STA. 364+00			
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		



FOR INFORMATION ONLY



LEGEND:

1. EXISTING COMB. CURB & GUTTER, TYPE V TO BE REMOVED
2. EXISTING PCC PAVEMENT, 10"
3. EXISTING GROUND SOIL
4. TEMPORARY WIDENING (BITUMINOUS BASE COURSE 10")
5. COMBINATION CONCRETE CURB AND GUTTER, TYPE M-2.12
6. EROSION CONTROL BLANKET, SEEDING, CL 2A, FURNISHING AND PLACING TOP SOIL, 4"
7. TEMPORARY CONCRETE BARRIER (RELOCATED FROM STAGE I)
8. MONODIRECTIONAL PRISMATIC BARRIER REFLECTOR @ 25' CTS.
9. TEMPORARY PAVEMENT MARKING, LINE 4" YELLOW
10. TEMPORARY PAVEMENT MARKING, LINE 4" WHITE
11. VERTICAL PANEL WITH STEADY BURNING LIGHT @ 50' CTS.
12. PROP. OVERLAY (SEE TYPICAL SECTIONS)
13. SOLID YELLOW EDGE LINE, 4"
14. SOLID WHITE SKIP-DASH LINE, 4"
15. SOLID WHITE EDGE LINE, 4"

* RELOCATED FROM STAGE I, PAY ITEM: SAND MODULE IMPACT ATTENUATOR (RELOCATE)
RELOCATE TEMP. CONC. BARRIER

** CONSTRUCTED DURING ADVANCE WORK

▲ CONSTRUCTED IN STAGE I

LEGEND

- ARROW BOARD
- TRAFFIC FLOW
- TEMPORARY WIDENING
- SIGN
- DRUM WITH STEADY BURNING MONODIRECTION LIGHT @ 50' CTS. 25' CTS IN TAPERS AND ON CURVES
- VERTICAL PANEL WITH STEADY BURNING LIGHT @ 50' CTS, 25' CTS IN TAPERS AND ON CURVES
- WORK AREA

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

ILL. 120 (ALMOND RD. TO GREENLEAF ST.)
OVER SMALL STREAM
S.N. 049-0044
STAGE II PLAN

SCALE: VERT. 1" = 50'
HORIZ.
DATE 1/30/01

DRAWN BY: RK
CHECKED BY

9:14 2001

MODEL: Default
FILE NAME: O:\Engineering\LiveProjects\20005_IDOT DUR\WO 39 - IL 120 at IL 21\CADD\CADD Sheets\Structural\SN 049-0045\049045-62P09-Sht-008-REF1.dgn

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USER NAME =	DESIGNED - ME	REVISED -	
	CHECKED - MAF	REVISED -	
PLOT SCALE =	DRAWN - ME	REVISED -	
PLOT DATE =	CHECKED - MAF	REVISED -	

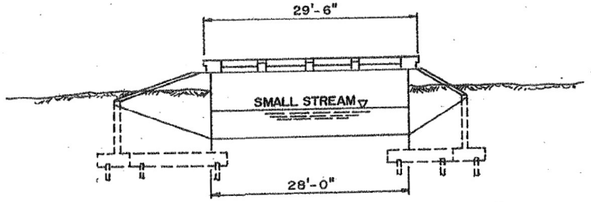
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING PLANS (SHEET 1 OF 4)
STRUCTURE NUMBER 049-0045
SHEET SC-08 OF SC-11 SHEETS

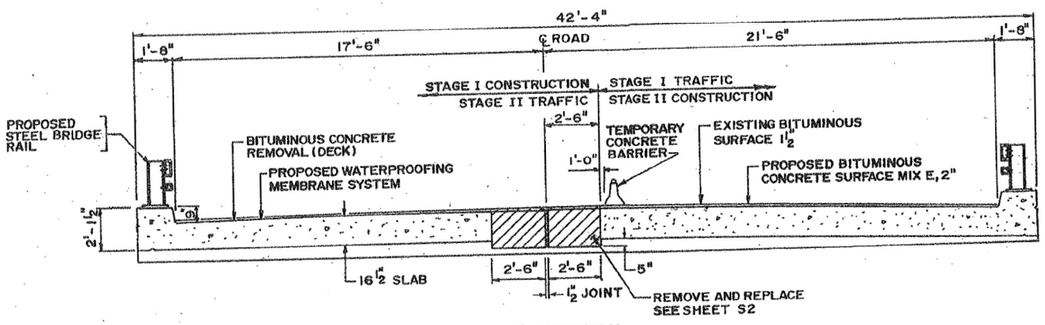
F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0333	2021-071-BDR	LAKE	131	72
		CONTRACT NO. 62P09		
	ILLINOIS	FED. AID PROJECT		

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
342	(68121)-RS-1	LAKE	66	31
STA.		TO STA.		
FED. ROAD DIST NO 7	ILLINOIS	FED. AID PROJECT		

SHEET S1 OF S3



ELEVATION



CROSS SECTION
S.N.049-0044

TOTAL - BILL OF MATERIAL

ITEM	UNIT	QUANTITY
WATERPROOFING MEMBRANE SYSTEM	SQ.YDS	128
POLYMERIZED BITUMINOUS CONCRETE SURFACE COURSE, SUPERPAVE, MIX "E", N90	TON	17
PLUG EXISTING DECK DRAINS	EACH	6
BITUMINOUS CONCRETE REMOVAL (DECK)	SQ.YDS	128
STEEL BRIDGE RAIL	FOOT	59
HANDRAIL CONCRETE REMOVAL	FOOT	59
CONCRETE SUPERSTRUCTURE	CU.YDS	8
CONCRETE REMOVAL	CU.YDS	10
REINFORCEMENT BARS (EPOXY COATED)	POUND	2065
RELOCATING NAME PLATES	EACH	1
* DECK SLAB REPAIR (PARTIAL)	SQ.YD	15
* DECK SLAB REPAIR (FULL DEPTH TYPE I)	SQ.YD	3

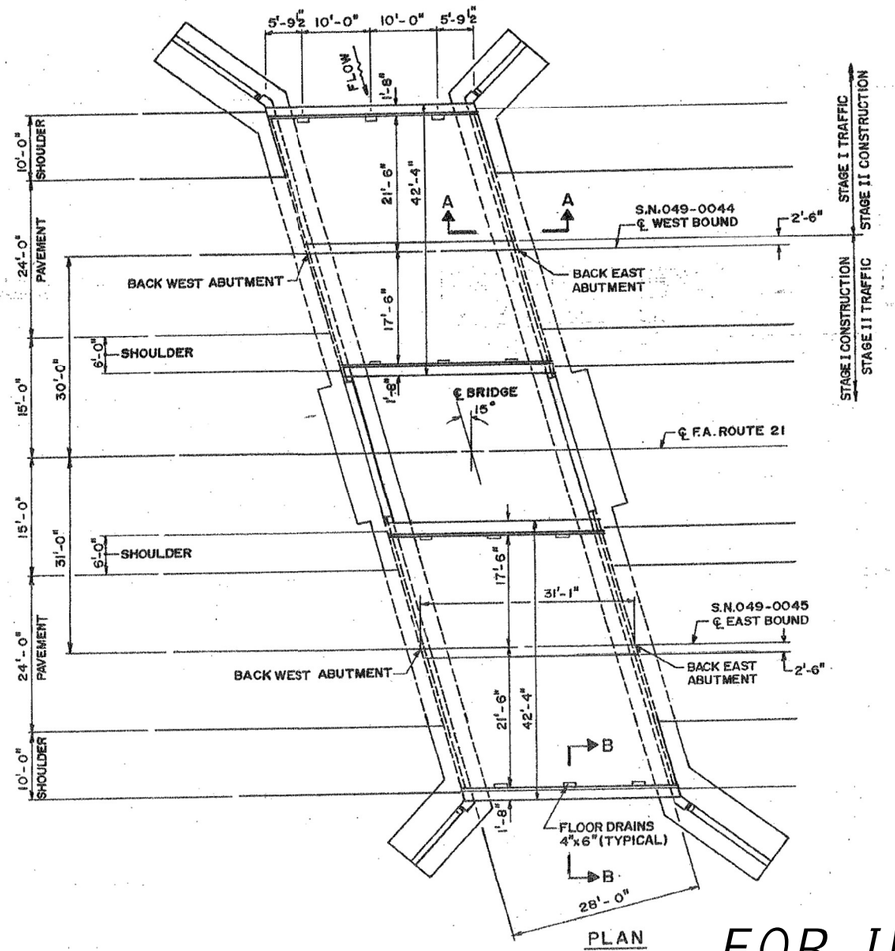
NOTES:

PLAN DIMENSIONS AND DETAILS RELATIVE TO THE EXISTING STRUCTURE HAVE BEEN TAKEN FROM EXISTING PLANS AND ARE SUBJECT TO NOMINAL CONSTRUCTION VARIATIONS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY SUCH DIMENSION AND DETAILS IN THE FIELD AND MAKE NECESSARY APPROVED ADJUSTMENTS PRIOR TO CONSTRUCTION OR ORDERING OF MATERIALS. SUCH VARIATION SHALL NOT BE CAUSE FOR ADDITIONAL COMPENSATION FOR A CHANGE IN THE SCOPE OF WORK, HOWEVER, THE UNIT BID PRICE FOR THE WORK.

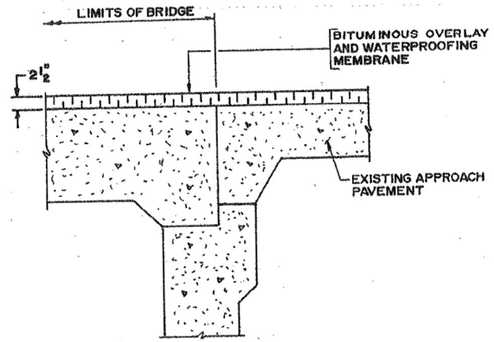
ANY REINFORCEMENT BARS THAT ARE DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED WITH AN APPROVED BAR SPLICER OR ANCHORAGE SYSTEM. COST INCLUDED WITH CONCRETE REMOVAL

REINFORCEMENT BARS SHALL CONFORM TO THE REQUIREMENT OF AASHTO, M-31, M-42, OR M-53 GRADE 60.

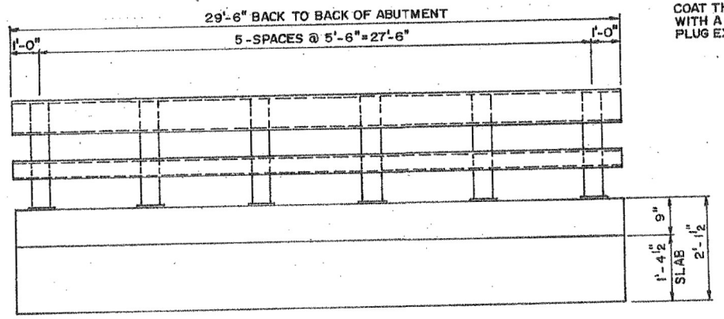
* DECK REPAIRS ARE ESTIMATED, ACTUAL QUANTITIES AND LOCATIONS TO BE DETERMINED BY THE ENGINEER AND SHALL BE INCLUDED IN THE AS-BUILT PLANS.



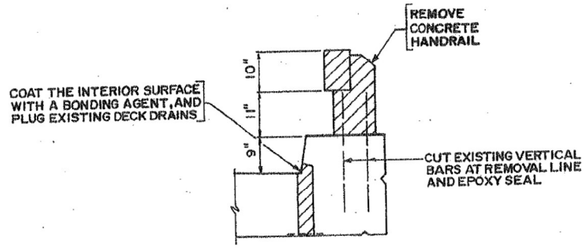
PLAN



SECTION "A-A"



ELEVATION
BRIDGE RAIL POST SPACINGS



SECTION "B-B"

FOR INFORMATION ONLY

REVISIONS	
NAME	DATE
Thomas M. Slattery	5/1999

ILLINOIS DEPARTMENT OF TRANSPORTATION

ILLINOIS 120
OVER SMALL STREAM
PLAN, ELEVATION, CROSS SECTIONS AND DETAILS
S.N.049-0044

SCALE: VERT. HORIZ. DRAWN BY MVT
DATE FEBRUARY, 1999 CHECKED BY TMS

Accurate GROUP, INC.

USER NAME =	DESIGNED - ME	REVISED -	
	CHECKED - MAF	REVISED -	
PLOT SCALE =	DRAWN - ME	REVISED -	
PLOT DATE =	CHECKED - MAF	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING PLANS (SHEET 2 OF 4)
STRUCTURE NUMBER 049-0045
SHEET SC-09 OF SC-11 SHEETS

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0333	2021-071-BDR	LAKE	131	73
		CONTRACT NO. 62P09		
		ILLINOIS	FED. AID PROJECT	

MODEL: Default
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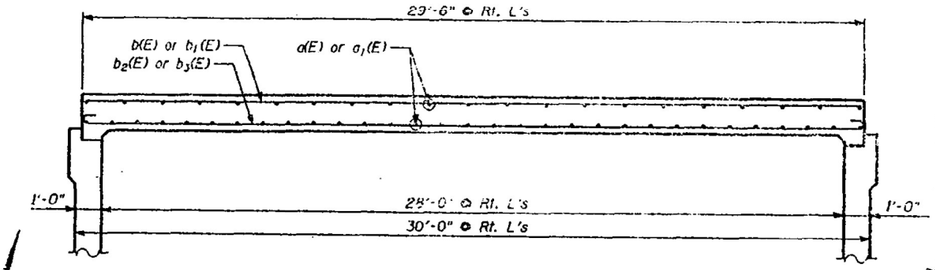
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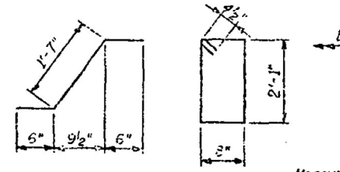
FOR INFORMATION ONLY

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

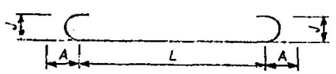
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	128 R-2	LAKE	531	388
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

SHEET NO. 4
9 SHEETS



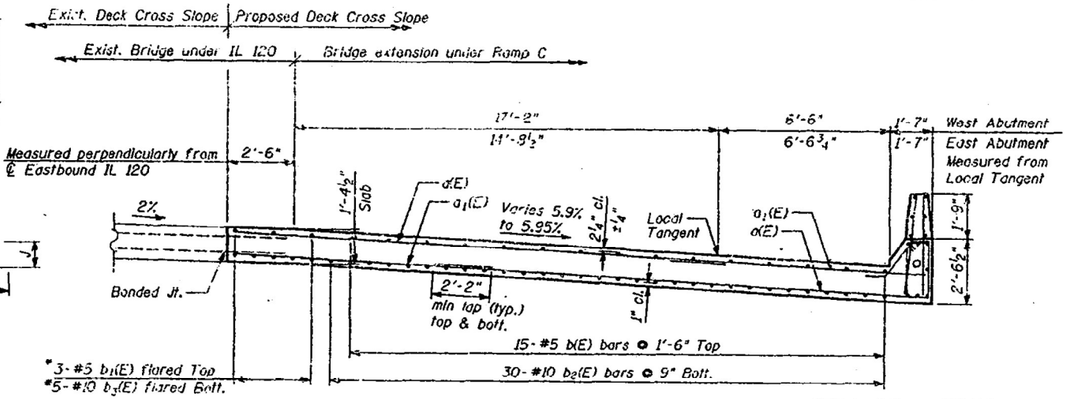


BAR $d_1(E)$ BAR $s(E)$

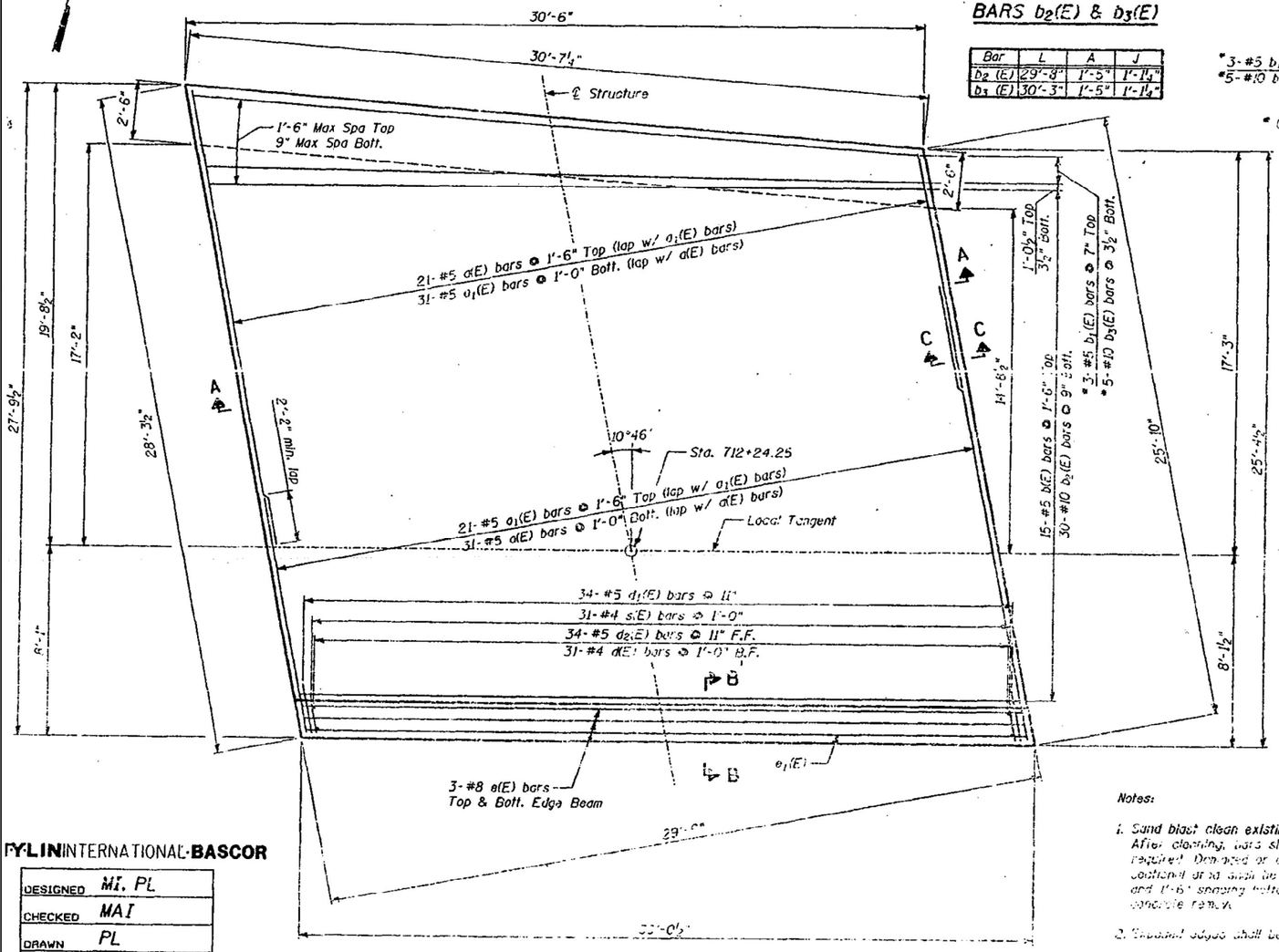


BARS $b_2(E)$ & $b_3(E)$

Bar	L	A	J
b_2 (E)	29'-8"	1'-5"	1'-1¼"
b_3 (E)	30'-3"	1'-5"	1'-1¼"

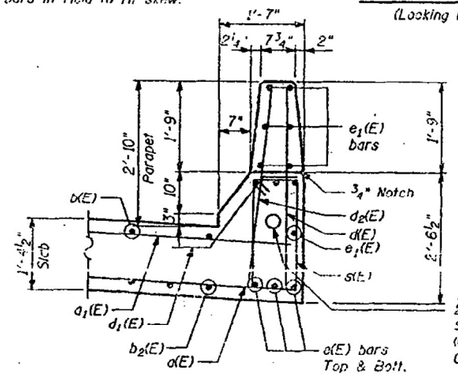


SECTION A-A



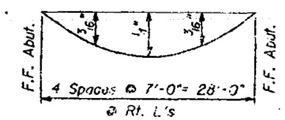
* Cut bars in field to fit skew.

CROSS SECTION
(Looking East)



2½"ϕ PVC Conduit Sch.40-Lighting (Typ.) (Cost included with Concrete Superstructure)

SECTION B-B THRU PARAPET

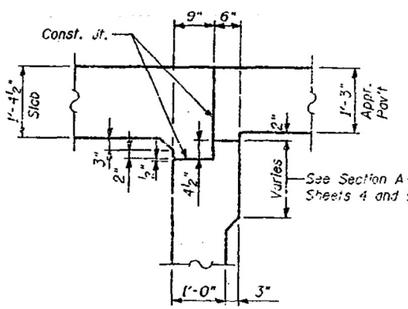


DEAD LOAD DEFLECTION DIAGRAM

BILL OF MATERIAL

Bar	No.	Size	Length (ft)	Shape
d(E)	52	#5	19'-9"	
a_1(E)	52	#5	10'-3"	
b(E)	15	#5	29'-8"	
b_1(E)	3	#5	30'-3"	
b_2(E)	30	#10	32'-6"	
b_3(E)	5	#10	33'-1"	
d(E)	31	#4	4'-0"	
d_1(E)	34	#5	2'-7"	
d_2(E)	34	#5	4'-0"	
e(E)	6	#8	29'-8"	
e_1(E)	7	#5	29'-8"	
s(E)	31	#4	6'-3"	
Reinforcement Bars, Epoxy Coated			Pound	8240
Concrete Superstructure			Cu. Yd.	45
Concrete Removal			Cu. Yd.	5
Bridge Deck Grooving			Sq. Yd.	83

Reinforcement bars designated (E) shall be epoxy coated.



SECTION C-C

Notes:

1. Sand blast clean existing reinforcing bars to be incorporated into new construction. After cleaning, bars shall be examined to determine if additional reinforcing bars are required. Damaged or cut bars, or bars that have lost 25% or more of their original cross sectional area shall be supplemented by drilling and grouting #5 bars at 1'-0" spacing top and 1'-6" spacing bottom in 1'-3" (min.) deep holes into existing deck. Cost included with concrete removal.
2. Transverse edges shall be beveled ¾".

S.F. indicates Front Face
B.F. indicates Back Face

PYLIN INTERNATIONAL·BASCOR

DESIGNED	MI. PL
CHECKED	MAI
DRAWN	PL
CHECKED	MAI
DATE	03-15-2002

PLAN

SUPERSTRUCTURE PLAN AND DETAILS

IL. ROUTE 21 RAMP C
OVER BELVIDERE TRIBUTARY
FAP 330 SECTION 128 R-2
LAKE COUNTY
STA. 712+24.25
S.N. 049-0045

Accurate GROUP, INC.

USER NAME =	DESIGNED - ME	REVISED -	
	CHECKED - MAF	REVISED -	
PLOT SCALE =	DRAWN - ME	REVISED -	
PLOT DATE =	CHECKED - MAF	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING PLANS (SHEET 3 OF 4)
STRUCTURE NUMBER 049-0045
SHEET SC-10 OF SC-11 SHEETS

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0333	2021-071-BDR	LAKE	131	74
		CONTRACT NO. 62P09		
	ILLINOIS	FED. AID PROJECT		

MODEL: Default
FILE NAME: Q:\Engineering\LiveProjects\20005_IDOT DUR\WO 39 - IL 120 at IL 21\CADD\CADD Sheets\Structural\SN 049-0045\049004502P09-Sht-010-REF3.dgn
8/28/2023 12:33:13 PM

Bench Mark: Iron rod on E side of IL Rte. 21, ± 210' N of Merit Club Lane, ± 7' E of E edge of pavement. Elev. 688.75

Existing Structures: Reinforced concrete slab bridge at 75° angles to F.A. Rt. 120, 84.5 ft. roadway, 28 ft. span, concrete abutments. Contractor shall remove portions of existing bridge as required to construct bridge extension.

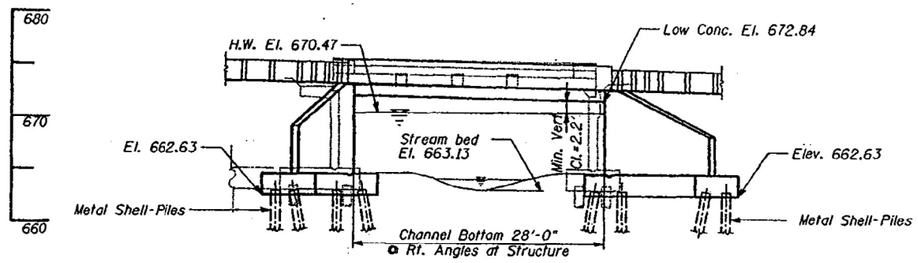
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	128 R-2	LAKE	531	385
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

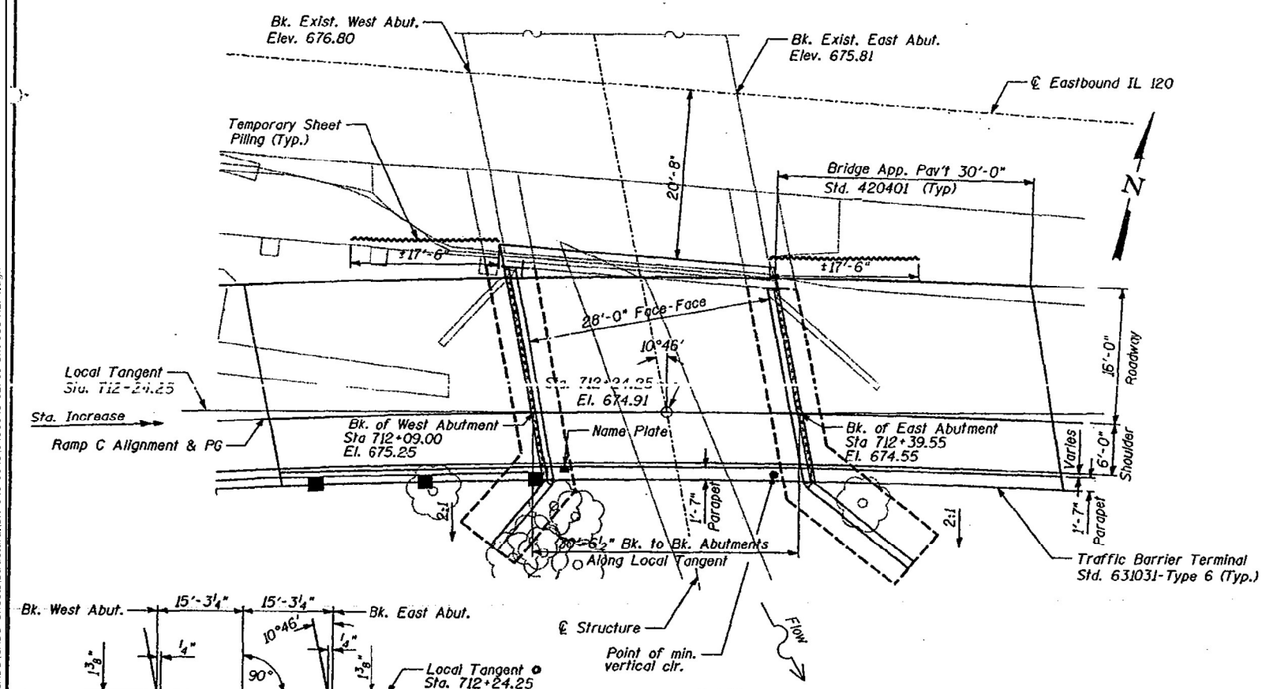
SHEET NO. 1
9 SHEETS

CURVE DATA

Δ = 24°-41'-52"
D = 5°-43'-46"
R = 1,000'
T = 218.93'
L = 431.06'
E = 23.68'
P.C. = 708+68.38
P.I. = 710+87.31
P.T. = 712+99.44
S.E. = 6% @ Sta. 711+69.44
5.81% @ Sta 712+99.44



ELEVATION



PLAN

OFFSET SKETCH

T·Y·LIN INTERNATIONAL · BASCOR

DESIGNED	MI, PL
CHECKED	MAI
DRAWN	PL
CHECKED	MAI

DATE 03-15-2002

WATERWAY INFORMATION

Drainage Area = 3.8 Sq.Mi Low Grade Elev. 674.05 @ Sta. 712+40.95

Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft. Exist.	Opening Sq. Ft. Prop.	Nat. H.W.E. Exist.	Nat. H.W.E. Prop.	Head - Ft. Exist.	Head - Ft. Prop.	Headwater El. Exist.	Headwater El. Prop.
	10	411	123	123	669.10	669.10	0.00	0.00	669.10	669.10
Design	50	798	161	161	670.47	670.47	0.11	0.00	670.58	670.47
Base	100	992	177	177	671.02	671.02	0.12	0.00	671.14	671.02
Overtopping										
Max. Calc.	500	1686	219	219	672.54	672.54	0.22	0.14	672.76	672.68

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Concrete Removal	Cu. Yd.	5	27	32
Structure Excavation	Cu. Yd.	---	430	430
Concrete Structures	Cu. Yd.	---	62	62
Concrete Superstructure	Cu. Yd.	45	---	45
Bridge Deck Grooving	Sq. Yd.	83	---	83
Reinforcement Bars, Epoxy Coated	Pound	8240	6020	14260
Furnishing Metal Pile Shells 12"	Foot	---	1190	1190
Driving and Filling Shells	Foot	---	1190	1190
Test Pile Metal Shells	Each	---	2	2
* Temporary Sheet Piling	Sq. Ft.	---	710	710
Name Plates	Each	1	–	1

* See Special Provisions

GENERAL NOTES

The Belvidere Road Tributary contains endangered species. Construction restrictions apply. Refer to Erosion Control Plan for Belvidere Tributary.

Reinforcement bars shall conform to the requirements of AASHTO M31, M42, or M53 Grade 60.

Backfill shall be placed behind the abutment after the superstructure has been poured and the false work removed. See Article 502.10 of the Standard Specifications.

The back face of closed abutments and wingwalls shall be waterproofed according to Article 503.18 of the Standard Specifications.

The contractor shall make allowance for the deflection of forms, shrinkage and settlement of falsework, in addition to allowance for dead load deflection.

Plan dimensions and details relative to existing structure have been taken from existing plans and are subject to nominal construction variations. It shall be the Contractor's responsibility to verify such dimensions and details in the field 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 the scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.

The contractor shall drive 1 metal shell test pile at the West and East Abutments as directed by the Engineer before ordering the remainder of piles.

The formwork for the deck slab shall be removed before placing the approach pavement.

BORING LOCATIONS

No.	*Station	*Offset
B-1	365+65	112.0' Right
B-2	366+35	109.0' Right

* Stations and offsets from proposed ℄ IL 120

INDEX OF SHEETS

1. GENERAL PLAN
2. REMOVAL DETAILS
3. TEMPORARY CONCRETE BARRIER
4. SUPERSTRUCTURE PLAN & DETAILS
5. EAST ABUTMENT WIDENING
6. WEST ABUTMENT WIDENING
7. PILING PLAN
8. PILE DETAILS
9. BORING LOGS

STATION 712+24.25
REBUILT 200_ BY
STATE OF ILLINOIS
F.A.P. RT. 330
SECTION 128 R-2
LOADING HS20
STR. NO. 049-0045

NAME PLATE

See Std. 515001

The existing name plate shall be cleaned and relocated next to the new name plate. Cost included with "Name Plates".

DESIGN SPECIFICATION

1996 AASHTO with 1997, 1998 & 1999 Interims Standard Specifications for Highway Bridges.

SEISMIC DATA

Seismic performance category (SPC) = A
Bedrock Acceleration Coefficient = 0.04g
Site Coefficient = 1.0

LOADING HS20-44

Allow 50 lb/ft² for future wearing surface.
Equivalent fluid pressure = 50 lb/ft³
2 ft live load surcharge.

DESIGN STRESSES

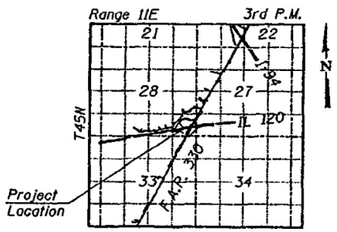
FIELD UNITS

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



PROFILE GRADE

Along PG Ramp C



LOCATION SKETCH

FOR INFORMATION ONLY

APPROVED
FOR STRUCTURAL ADEQUACY ONLY
Ralph E. Anderson
ENGINEER OF BRIDGES AND STRUCTURES

STATE OF ILLINOIS
HEATHER J. GAFFNEY
081-004961
CHICAGO, ILLINOIS
STRUCTURAL ENGINEER

Signed Heather Gaffney
Heather J. Gaffney, S.E. IL Lic. No. 081-004961 Expires 11-30-2002 For drawings
Date MARCH 15, 2002

GENERAL PLAN

IL. ROUTE 21 RAMP C
OVER BELVIDERE TRIBUTARY
FAP 330 SECTION 128 R-2
LAKE COUNTY
STA. 712+24.25
S.N. 049-0045

Accurate GROUP, INC.

USER NAME =	DESIGNED - ME	REVISED -	
	CHECKED - MAF	REVISED -	
PLOT SCALE =	DRAWN - ME	REVISED -	
PLOT DATE =	CHECKED - MAF	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING PLANS (SHEET 4 OF 4)
STRUCTURE NUMBER 049-0045
SHEET SC-11 OF SC-11 SHEETS

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0333	2021-071-BDR	LAKE	131	75
		CONTRACT NO. 62P09		
	ILLINOIS FED. AID PROJECT			

MODEL: Default
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Benchmark:
Chiseled "□" in east slopewall between bridges. Station 37+26.90, 30.27' LT, Elev. = 659.572

Existing Structure:
SN 049-0046 & 049-0047 were originally built in 1959 as F.A. Route 21, Section 12-B-1 & 12-F-1. The existing bridges are 3-span structures with non-composite reinforced concrete decks on steel beams. They are each supported by two stem-type piers supported by concrete footings with creosoted timber piles and stub abutments supported by concrete pile bents with concrete piles. The existing & proposed back-to-back abutment length for both structures is 179'-4". SN 049-0046 has an existing out-to-out width of 45'-0". SN 049-0047 has an existing out-to-out width of 34'-0"".

Traffic will utilize a crossover during construction.

No Salvage.

DESIGN SPECIFICATIONS

2002 AASHTO Standard Specifications for Highway Bridges, 17th Edition

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

DESIGN STRESSES

FIELD UNITS (Existing)
fc = 1,400 psi (Superstructure)
fc = 800 psi (Abutment & Piers)
fs = 18,000 psi (Structural Steel)
fs = 20,000 psi (Reinforcement)
FIELD UNITS (New Construction)
f'c = 3,500 psi
f'c = 4,000 psi (Superstructure Concrete)
fy = 60,000 psi (Reinforcement)
fy = 50,000 psi (M270, Gr. 50)

LOADING HS20-44

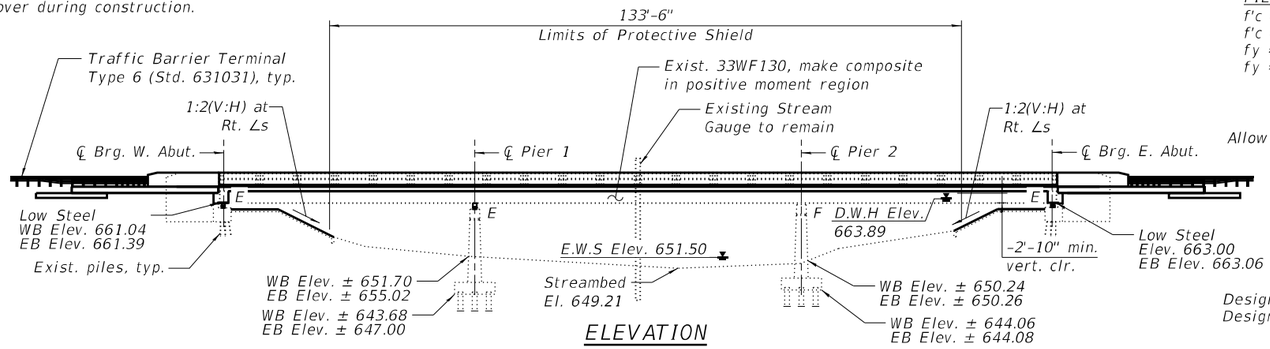
Allow 25#/sq. ft. for future wearing surface.

DESIGN SCOUR ELEVATION TABLE SN 049-0046 (EB)

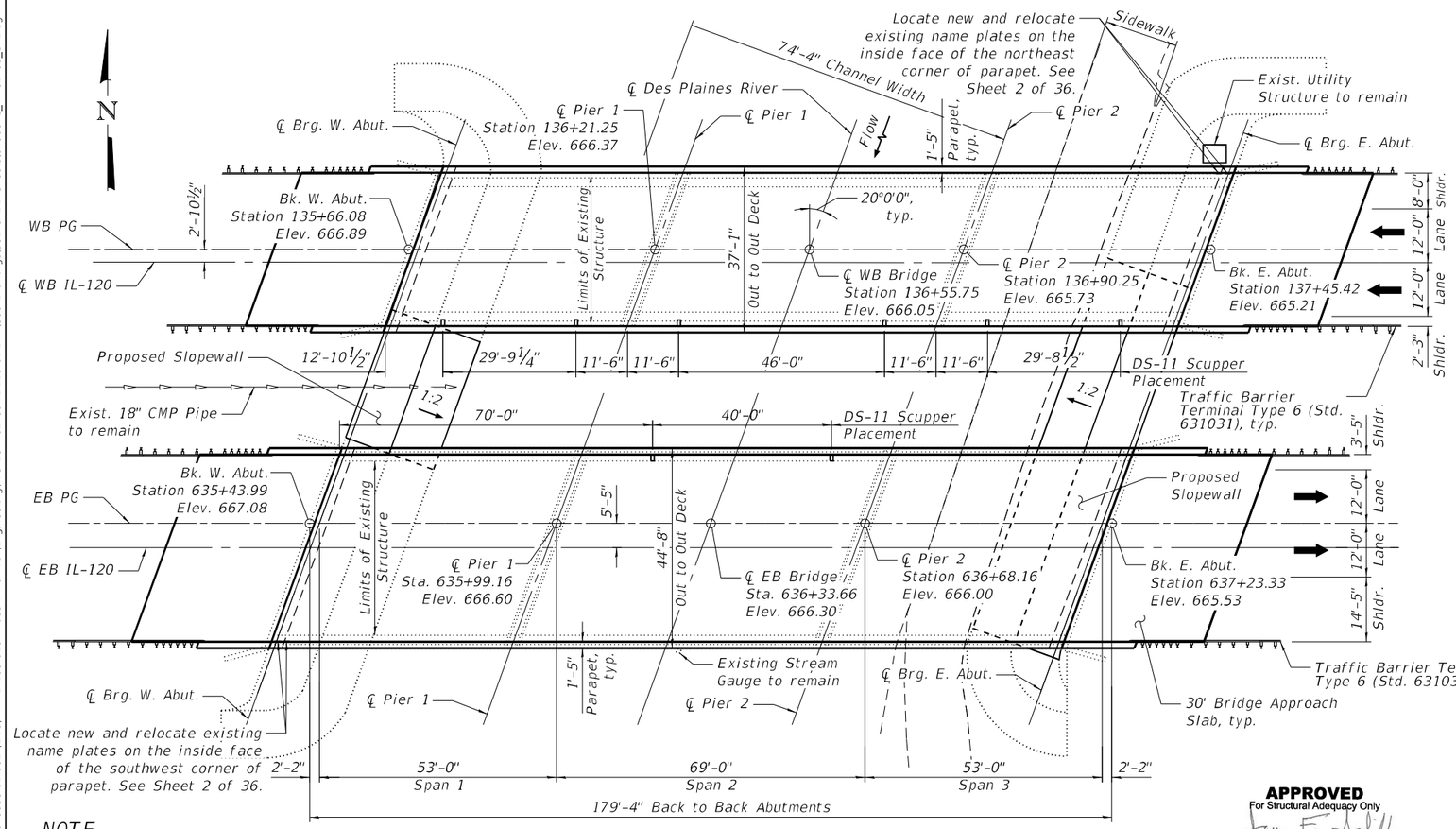
Event / Limit State	Design Scour Elevations (ft.) W. Abut.	Pier 1	Pier 2	E. Abut.	Item 113
Q10	655.1	641	641.34	647.55	8
Q100	659.8	643.3	642.94	657.25	
Q200	659.8	643.1	642.84	653.03	
Design (Q10)	655.1	641	641.34	647.55	

DESIGN SCOUR ELEVATION TABLE SN 049-0047 (WB)

Event / Limit State	Design Scour Elevations (ft.) W. Abut.	Pier 1	Pier 2	E. Abut.	Item 113
Q10	654.99	644.32	641.36	647.42	8
Q100	659.69	646.62	642.96	657.12	
Q200	659.69	646.42	642.86	657.12	
Design	654.99	644.32	641.36	647.42	



ELEVATION



NOTE

The elevations shown in Plan correspond to elevations after grinding.

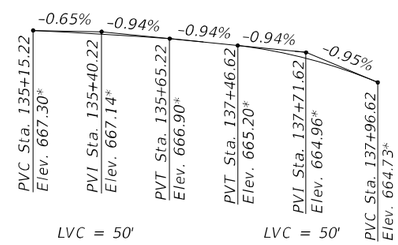
PLAN

SEISMIC DATA

Seismic Retrofit Category (SRC) = A
Design Spectral Acceleration at 1.0 sec. (SD1) = 0.091g
Design Spectral Acceleration at 0.2 sec. (SDS) = 0.108g
Soil Site Class = D
Performance Level = Life Safety

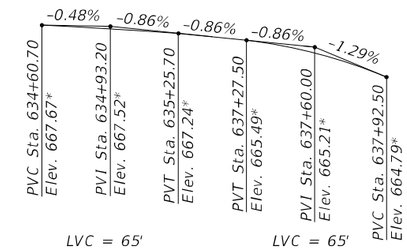
SCOPE OF WORK

1. *Remove and replace the bridge deck, abutment back walls, expansion joints, expansion bearings, and approach slabs.*
2. *Repair beam ends.*
3. *Remove end diaphragms.*
4. *Reconfigure existing abutments to semi-integral configuration.*
5. *Clean and paint steel areas that show signs of rust, section loss and all other corroded areas that will not be encased by concrete end diaphragms.*
6. *Repair substructure, slope walls, and sidewalk running below east side of bridges.*
7. *Remove the ducts containing asbestos between beams 1 and 2 of SN 049-0047.*



PROP. WB PROFILE GRADE

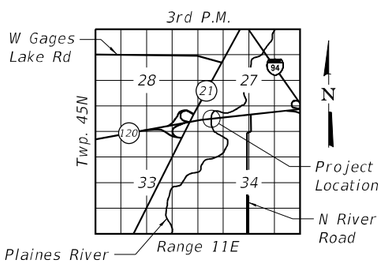
(Along PG WB IL-120)



PROP. EB PROFILE GRADE

(Along PG EB IL-120)

**The Profile Grade shows the final grade after grinding. Up to ¼ inch to be ground off the bridge deck and the bridge approach slabs.*



LOCATION SKETCH

APPROVED
For Structural Adequacy Only
Engineer of Bridges & Structures

STATE OF ILLINOIS ARTHUR J. NOWAK 81-5894 CHICAGO, ILLINOIS LICENSED STRUCTURAL ENGINEER
8.28.2023

GENERAL PLAN AND ELEVATION
IL 120 (F.A.P. 333) OVER DES PLAINES RIVER
SEC. 2021-071-BDR
LAKE COUNTY
STATION 636+33.66 (EB)
STRUCTURE NO. 049-0046 (EB)
STATION 136+55.75 (WB)
STRUCTURE NO. 049-0047 (WB)

SD-01

Bowman 10 S. LaSalle Street, Suite 2710 Chicago, Illinois 60603 312-616-0360 www.bowmanep.com

USER NAME = pskolba	DESIGNED - AT	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	GENERAL PLAN AND ELEVATION STRUCTURE NO. 049-0046 (EB) & 049-0047 (WB)	
	CHECKED - AJN	REVISED -			
PLOT SCALE =	DRAWN - AT/PS	REVISED -			
PLOT DATE = 06/21/2023	CHECKED - AJN	REVISED -		SHEET 1 OF 36 SHEETS	

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
333	2021-071-BDR	LAKE	131	76
		CONTRACT NO. 62P09		
		ILLINOIS FED. AID PROJECT		

MODEL: Default
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GENERAL NOTES

1. Fasteners shall be ASTM F 3125 Grade A325 Type 1, mechanically galvanized bolts in painted areas. Bolt ⅞" in. diameter, holes $1\frac{3}{16}$" in. diameter, unless otherwise noted.

2. All new weldment plate assemblies shall be AASHTO M270 Grade 50.

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

12. The existing permanent protective shielding over the pathway between Pier 2 and east Abutment shall be removed. The cost of removal of the existing protective shielding shall be included with the cost of the removal of the existing concrete decks.

3. Calculated weight of Weldment Plate Assemblies = 5,910 lb (Grade 50)
Calculated weight of Structural Steel Repairs = 600 lb (Grade 50)

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

5. Reinforcement bars designated (E) shall be epoxy coated.

6. 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 paid for according to Article 109.04 of the Standard Specifications.

7. 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 inch deep shall be identified and reported to the Bureau of Bridges and 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.

8. 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.

9. All (embedded and separate) weldment assembly, bearing plates, side retainers, anchor bolts, nuts, washers and pintles shall be galvanized according to AASHTO M111 or M232 as applicable.

10. H.S. bolts in bearing assembly shall be galvanized according to AASHTO N298 Class 50.

11. A film forming Concrete Sealer shall be applied to the designated areas of the abutment seats and top surfaces of the piers.

INDEX OF SHEETS

SD-01 GENERAL PLAN AND ELEVATION
SD-02 BILL OF MATERIAL AND GENERAL NOTES
SD-03 DECK ELEVATIONS 1
SD-04 DECK ELEVATIONS 2
SD-05 DECK ELEVATIONS 3
SD-06 DECK ELEVATIONS 4
SD-07 APPROACH SLAB ELEVATIONS – EASTBOUND STRUCTURE
SD-08 APPROACH SLAB ELEVATIONS – WESTBOUND STRUCTURE
SD-09 SUPERSTRUCTURE – DECK – EASTBOUND STRUCTURE
SD-10 SUPERSTRUCTURE DETAILS – EASTBOUND STRUCTURE
SD-11 END DIAPHRAGM – EASTBOUND STRUCTURE
SD-12 SUPERSTRUCTURE – DECK – WESTBOUND STRUCTURE
SD-13 SUPERSTRUCTURE DETAILS – WESTBOUND STRUCTURE
SD-14 END DIAPHRAGM – WESTBOUND STRUCTURE
SD-15 APPROACH SLAB – EASTBOUND STRUCTURE
SD-16 APPROACH SLAB DETAILS – EASTBOUND STRUCTURE
SD-17 APPROACH SLAB – WESTBOUND STRUCTURE
SD-18 APPROACH SLAB DETAILS – WESTBOUND STRUCTURE
SD-19 FRAMING PLAN AND STEEL REPAIRS
SD-20 INTERIOR GIRDER MOMENTS AND REACTIONS
SD-21 STEEL REPAIR DETAILS
SD-22 BEARING DETAILS I – EASTBOUND STRUCTURE
SD-23 BEARING DETAILS II – EASTBOUND STRUCTURE
SD-24 BEARING DETAILS I – WESTBOUND STRUCTURE
SD-25 BEARING DETAILS II – WESTBOUND STRUCTURE
SD-26 EAST ABUTMENT REMOVAL DETAILS – EASTBOUND STRUCTURE
SD-27 WEST ABUTMENT REMOVAL DETAILS – EASTBOUND STRUCTURE
SD-28 EAST ABUTMENT REMOVAL DETAILS – WESTBOUND STRUCTURE
SD-29 WEST ABUTMENT REMOVAL DETAILS – WESTBOUND STRUCTURE
SD-30 PIER REPAIRS – EASTBOUND STRUCTURE
SD-31 PIER REPAIRS – WESTBOUND STRUCTURE
SD-32 SLOPE WALL REPAIR – EAST ABUTMENT
SD-33 SLOPE WALL REPAIR – WEST ABUTMENT
SD-34 DRAINAGE SCUPPER, DS-11
SD-35 BAR SPLICER ASSEMBLY AND MECHANICAL SPLICER DETAILS
SD-36 CONCRETE PARAPET SLIPFORMING

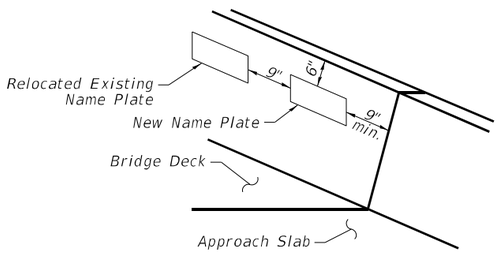
ABBREVIATIONS

abut.	abutment	NE	north east
B.F.	back face	NW	north west
℄	baseline	No.	number
brg.	bearing	N.S.	near side
℄	centerline	O.F.	outside face
cl.	clearance	PJF	preformed joint filler
conc.	concrete	PJS	preformed joint sealer
cts.	centers	PG	profile grade
const.	construction	prop.	proposed
E.B.	expansion bearings	req'd	required
EA	east abutment	rte.	route
EB	east bound	SB	south bound
E.F.	each face	SE	south east
elev.	elevation	SW	south west
exist.	existing	sect.	section
F.B.	fixed bearings	spa.	spaces
F.F.	front face	spec.	specification
F.S.	far side	sta.	station
H.S.	high strength	std.	standard
I.F.	inside face	struct.	structure
jt.	joint	typ.	typical
long.	longitudinal	UNO	unless noted otherwise
max.	maximum	WA	west abutment
min.	minimum	WB	west bound
NB	north bound	WW	wingwall

TOTAL BILL OF MATERIAL

DESCRIPTION	Unit	Super	Sub	Total
POROUS GRANULAR BACKFILL	CU YD	–	17	17
REMOVAL OF EXISTING CONCRETE DECK NO. 1	EACH	1	–	1
REMOVAL OF EXISTING CONCRETE DECK NO. 2	EACH	1	–	1
CONCRETE REMOVAL	CU YD	–	46.6	46.6
BRIDGE RAIL REMOVAL	FOOT	1,416	–	1,416
SLOPE WALL REMOVAL	SQ YD	–	258	258
PROTECTIVE SHIELD	SQ YD	–	1,172	1,172
STRUCTURE EXCAVATION	CU YD	–	454	454
CONCRETE STRUCTURES	CU YD	–	57.9	57.9
CONCRETE SUPERSTRUCTURE	CU YD	551.7	–	551.7
PROTECTIVE COAT	SQ YD	2,278	–	2,278
CONCRETE SUPERSTRUCTURE (APPROACH SLAB)	CU YD	225.0	–	225.0
FURNISHING AND ERECTING STRUCTURAL STEEL	POUND	5,910	–	5,910
STUD SHEAR CONNECTORS	EACH	5,712	–	5,712
REINFORCEMENT BARS, EPOXY COATED	POUND	232,240	–	232,240
BAR SPLICERS	EACH	166	–	166
SLOPE WALL 6 INCH	SQ YD	258	–	258
NAME PLATES	EACH	2	–	2
ELASTOMERIC BEARING ASSEMBLY, TYPE I	EACH	28	–	28
ELASTOMERIC BEARING ASSEMBLY, TYPE II	EACH	14	–	14
ANCHOR BOLTS, 1"	EACH	56	–	56
ANCHOR BOLTS, 1 1/4"	EACH	28	–	28
GRANULAR BACKFILL FOR STRUCTURES	CU YD	147	–	147
CONCRETE SEALER	SQ FT	798	–	798
GEOCOMPOSITE WALL DRAIN	SQ YD	–	64	64
PIPE UNDERDRAINS FOR STRUCTURES 4"	FOOT	–	334	334
REMOVAL OF ASBESTOS CEMENT CONDUIT	FOOT	1,436	–	1,436
STREAM GAUGE	EACH	1	–	1
BRIDGE DECK GROOVING (LONGITUDINAL)	SQ YD	1,266	–	1,266
JACK AND REMOVE EXISTING BEARINGS	EACH	42	–	42
STRUCTURAL STEEL REMOVAL	POUND	7,150	–	7,150
STRUCTURAL STEEL REPAIR	POUND	600	–	600
APPROACH SLAB REMOVAL	SQ YD	366	–	366
STRUCTURAL REPAIR OF CONCRETE (DEPTH EQUAL TO OR LESS THAN 5 INCHES)	SQ FT	105	–	105
STRUCTURAL REPAIR OF CONCRETE (DEPTH GREATER THAN 5 INCHES)	SQ FT	2	–	2
DRAINAGE SCUPPERS, DS-11	EACH	8	–	8
DIAMOND GRINDING (BRIDGE SECTION)	SQ YD	1,796	–	1,796

Note: Pay items above noted as No. or Location 1 and 2 apply to SN 049-0047 (WB) and SN 049-0046 (EB), respectively.



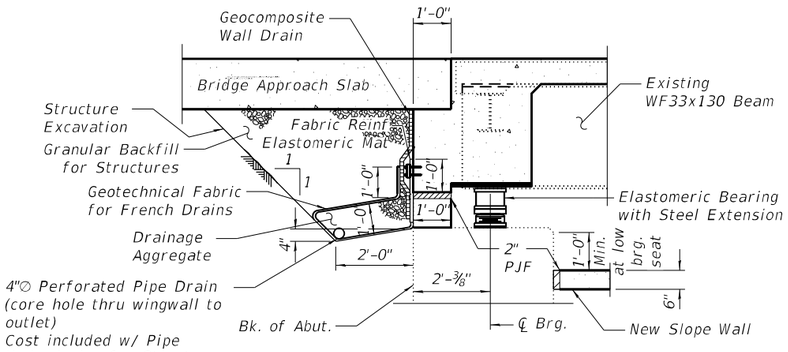
PARAPET
(Typical)

STATION 136+55.75
RE-BUILT 20__ BY
STATE OF ILLINOIS
F.A.P. RT. 333 SEC.2021-071-BDR
LOADING HS20-44
STR. NO. 049-0047

STATION 636+33.66
RE-BUILT 20__ BY
STATE OF ILLINOIS
F.A.P. RT. 333 SEC.2021-071-BDR
LOADING HS20-44
STR. NO. 049-0046

NAME PLATES
See Std. 515001

Note: Existing Name Plate shall be cleaned and relocated next to new Name Plate. Cost included with "Name Plates."



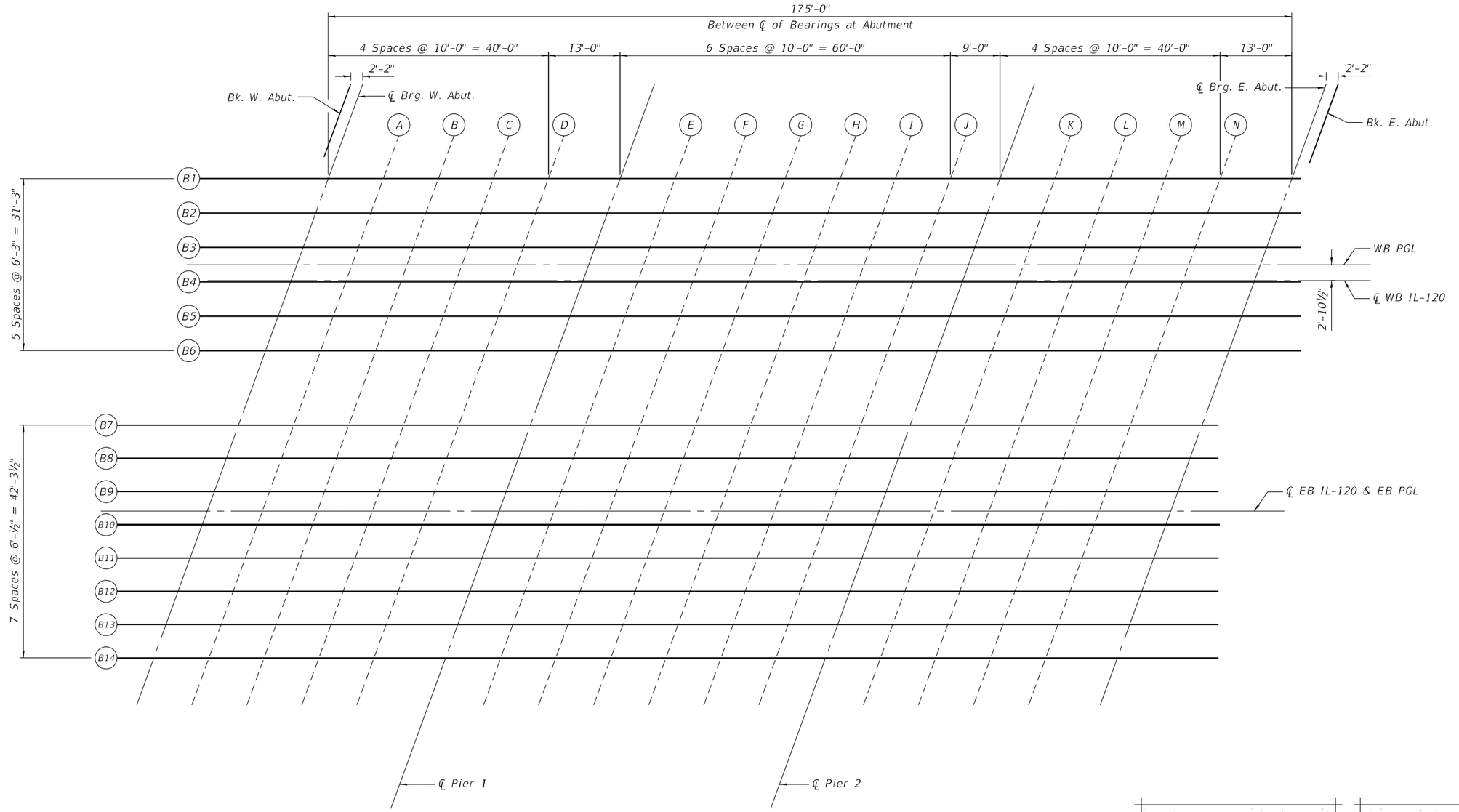
SECTION THRU ABUTMENT
(Dim. measured at right ∠)

SD-02

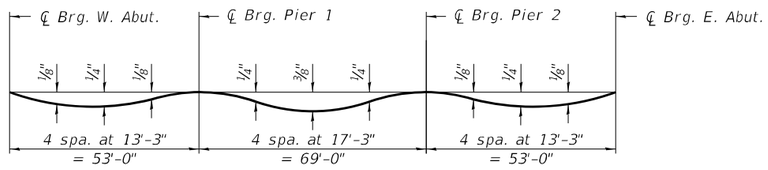
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	CHECKED - AJN	REVISED -			
PLOT SCALE =	DRAWN - AT/PS	REVISED -			
PLOT DATE = 10/18/2023	CHECKED - AJN	REVISED -		SHEET 2 OF 36 SHEETS	

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
333	2021-071-BDR	LAKE	131	77
		CONTRACT NO. 62P09		
		ILLINOIS	FED. AID PROJECT	



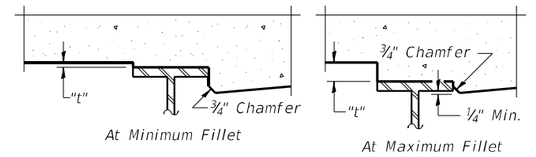
PLAN



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 below.



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 and Grinding" shown below, minus the initial slab thickness prior to grinding, equals the fillet heights "t" above top flange of beams.

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

FILLET HEIGHTS

SD-03

MODEL: Default
FILE NAME: P:\040058 - IDOT\040058-01-002 (ENG) - PTB 195-016 Phase II Var VariEngineering\WO 28 - 62P09 IL-120 at DPR\500 Drawings\502 CADD Sheets\04900046_47-62P09_Deck Elevations 1.dgn
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PLOT SCALE =
PLOT DATE = 06/21/2023
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CHECKED - AJN
DRAWN - AT/PS
CHECKED - AJN
REVISED -
REVISED -
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DECK ELEVATIONS 1
STRUCTURE NO. 049-0046 (EB) & 049-0047 (WB)
SHEET 3 OF 36 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
333	2021-071-BDR	LAKE	131	78
		CONTRACT NO. 62P09		
	ILLINOIS	FED. AID PROJECT		

BEAM 1

Location	Station	Offset	Theoretical Grade Elevation	Theoretical Grade Elevations Adjusted For Dead Load Deflection and Grinding
Bk. W. Abut.	135+71.77	-15.63	666.59	666.59
℄ Brg. W. Abut.	135+73.93	-15.63	666.57	666.57
A	135+83.93	-15.63	666.48	666.49
B	135+93.93	-15.63	666.39	666.41
C	136+03.93	-15.63	666.29	666.31
D	136+13.93	-15.63	666.20	666.21
℄ Pier 1	136+26.94	-15.63	666.08	666.08
E	136+36.94	-15.63	665.98	665.99
F	136+46.94	-15.63	665.89	665.91
G	136+56.94	-15.63	665.79	665.83
H	136+66.94	-15.63	665.70	665.74
I	136+76.94	-15.63	665.61	665.63
J	136+86.94	-15.63	665.51	665.52
℄ Pier 2	136+95.94	-15.63	665.43	665.43
K	137+05.94	-15.63	665.33	665.34
L	137+15.94	-15.63	665.24	665.25
M	137+25.94	-15.63	665.15	665.17
N	137+35.94	-15.63	665.05	665.07
℄ Brg. E. Abut.	137+48.94	-15.63	664.93	664.93
Bk. E. Abut.	137+51.10	-15.63	664.91	664.91

BEAM 2

Location	Station	Offset	Theoretical Grade Elevation	Theoretical Grade Elevations Adjusted For Dead Load Deflection and Grinding
Bk. W. Abut.	135+69.49	-9.38	666.74	666.74
℄ Brg. W. Abut.	135+71.65	-9.38	666.72	666.72
A	135+81.65	-9.38	666.63	666.64
B	135+91.65	-9.38	666.53	666.55
C	136+01.65	-9.38	666.44	666.46
D	136+11.65	-9.38	666.34	666.35
℄ Pier 1	136+24.66	-9.37	666.22	666.22
E	136+34.66	-9.38	666.13	666.14
F	136+44.66	-9.38	666.03	666.06
G	136+54.66	-9.38	665.94	665.98
H	136+64.66	-9.38	665.85	665.88
I	136+74.66	-9.38	665.75	665.78
J	136+84.66	-9.38	665.66	665.67
℄ Pier 2	136+93.66	-9.38	665.57	665.57
K	137+03.66	-9.38	665.48	665.48
L	137+13.66	-9.38	665.39	665.40
M	137+23.66	-9.38	665.29	665.31
N	137+33.66	-9.38	665.20	665.21
℄ Brg. E. Abut.	137+46.66	-9.38	665.08	665.08
Bk. E. Abut.	137+48.82	-9.38	665.05	665.05

BEAM 3

Location	Station	Offset	Theoretical Grade Elevation	Theoretical Grade Elevations Adjusted For Dead Load Deflection and Grinding
Bk. W. Abut.	135+67.22	-3.13	666.86	666.86
℄ Brg. W. Abut.	135+69.38	-3.13	666.84	666.84
A	135+79.38	-3.13	666.74	666.76
B	135+89.38	-3.13	666.65	666.67
C	135+99.38	-3.13	666.55	666.57
D	136+09.38	-3.13	666.46	666.47
℄ Pier 1	136+22.39	-3.13	666.34	666.34
E	136+32.39	-3.13	666.24	666.25
F	136+42.39	-3.13	666.15	666.18
G	136+52.39	-3.13	666.06	666.09
H	136+62.39	-3.13	665.96	666.00
I	136+72.39	-3.13	665.87	665.89
J	136+82.39	-3.13	665.77	665.78
℄ Pier 2	136+91.39	-3.13	665.69	665.69
K	137+01.39	-3.13	665.60	665.60
L	137+11.39	-3.13	665.50	665.52
M	137+21.39	-3.13	665.41	665.43
N	137+31.39	-3.13	665.31	665.33
℄ Brg. E. Abut.	137+44.39	-3.13	665.19	665.19
Bk. E. Abut.	137+46.55	-3.13	665.17	665.17

℄ WB IL-120 & PGL

Location	Station	Offset	Theoretical Grade Elevation	Theoretical Grade Elevations Adjusted For Dead Load Deflection and Grinding
Bk. W. Abut.	135+66.08	0.00	666.91	666.91
℄ Brg. W. Abut.	135+68.24	0.00	666.89	666.89
A	135+78.24	0.00	666.80	666.81
B	135+88.24	0.00	666.71	666.73
C	135+98.24	0.00	666.61	666.63
D	136+08.24	0.00	666.52	666.53
℄ Pier 1	136+21.25	0.00	666.40	666.40
E	136+31.25	0.00	666.30	666.31
F	136+41.25	0.00	666.21	666.23
G	136+51.25	0.00	666.11	666.15
H	136+61.25	0.00	666.02	666.06
I	136+71.25	0.00	665.93	665.95
J	136+81.25	0.00	665.83	665.84
℄ Pier 2	136+90.25	0.00	665.75	665.75
K	137+00.25	0.00	665.65	665.66
L	137+10.25	0.00	665.56	665.57
M	137+20.25	0.00	665.47	665.49
N	137+30.25	0.00	665.37	665.39
℄ Brg. E. Abut.	137+43.25	0.00	665.25	665.25
Bk. E. Abut.	137+45.41	0.00	665.23	665.23

BEAM 4

Location	Station	Offset	Theoretical Grade Elevation	Theoretical Grade Elevations Adjusted For Dead Load Deflection and Grinding
Bk. W. Abut.	135+64.94	3.13	666.96	666.96
℄ Brg. W. Abut.	135+67.10	3.13	666.94	666.94
A	135+77.10	3.13	666.85	666.86
B	135+87.10	3.13	666.76	666.78
C	135+97.10	3.13	666.66	666.68
D	136+07.10	3.13	666.57	666.58
℄ Pier 1	136+20.11	3.12	666.45	
E	136+30.11	3.13	666.35	666.36
F	136+40.11	3.13	666.26	666.28
G	136+50.11	3.13	666.16	666.20
H	136+60.11	3.13	666.07	666.11
I	136+70.11	3.13	665.98	666.00
J	136+80.11	3.13	665.88	665.89
℄ Pier 2	136+89.11	3.13	665.80	665.80
K	136+99.11	3.13	665.70	665.71
L	137+09.11	3.13	665.61	665.62
M	137+19.11	3.13	665.52	665.54
N	137+29.11	3.13	665.42	665.44
℄ Brg. E. Abut.	137+42.11	3.13	665.30	665.30
Bk. E. Abut.	137+44.27	3.13	665.28	665.28

BEAM 5

Location	Station	Offset	Theoretical Grade Elevation	Theoretical Grade Elevations Adjusted For Dead Load Deflection and Grinding
Bk. W. Abut.	135+62.57	9.38	666.89	666.89
℄ Brg. W. Abut.	135+64.93	9.38	666.87	666.87
A	135+74.93	9.38	666.78	666.79
B	135+84.93	9.38	666.68	666.70
C	135+94.93	9.38	666.59	666.61
D	136+04.93	9.38	666.50	666.50
℄ Pier 1	136+17.94	9.38	666.37	666.37
E	136+27.94	9.38	666.28	666.29
F	136+37.94	9.38	666.19	666.21
G	136+47.94	9.38	666.09	666.13
H	136+57.94	9.38	666.00	666.03
I	136+67.94	9.38	665.90	665.93
J	136+77.94	9.38	665.81	665.82
℄ Pier 2	136+86.94	9.38	665.73	665.73
K	136+96.94	9.38	665.63	665.64
L	137+06.94	9.38	665.54	665.55
M	137+16.94	9.38	665.44	665.46
N	137+26.94	9.38	665.35	665.37
℄ Brg. E. Abut.	137+39.94	9.38	665.23	665.23
Bk. E. Abut.	137+42.00	9.38	665.21	665.21

SD-04

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PLOT DATE = 06/21/2023	CHECKED - AJN	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DECK ELEVATIONS 2
STRUCTURE NO. 049-0046 (EB) & 049-0047 (WB)
SHEET 4 OF 36 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
333	2021-071-BDR	LAKE	131	79
		CONTRACT NO. 62P09		
	ILLINOIS FED. AID PROJECT			

MODEL: Default
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BEAM 6

Location	Station	Offset	Theoretical Grade Elevation	Theoretical Grade Elevations Adjusted For Dead Load Deflection and Grinding
Bk. W. Abut.	135+60.39	15.63	666.82	666.82
℄ Brg. W. Abut.	135+62.55	15.63	666.80	666.80
A	135+72.55	15.63	666.70	666.71
B	135+82.55	15.63	666.61	666.63
C	135+92.55	15.63	666.51	666.53
D	136+02.55	15.63	666.42	666.43
℄ Pier 1	136+15.56	15.62	666.30	666.30
E	136+25.56	15.63	666.20	666.21
F	136+35.56	15.63	666.11	666.14
G	136+45.56	15.63	666.02	666.05
H	136+55.56	15.63	665.92	665.96
I	136+65.56	15.63	665.83	665.85
J	136+75.56	15.63	665.73	665.74
℄ Pier 2	136+84.56	15.63	665.65	665.65
K	136+94.56	15.63	665.55	665.56
L	137+04.56	15.63	665.46	665.48
M	137+14.56	15.63	665.37	665.39
N	137+24.56	15.63	665.27	665.29
℄ Brg. E. Abut.	137+37.56	15.63	665.15	665.15
Bk. E. Abut.	137+39.72	15.63	665.13	665.13

BEAM 7

Location	Station	Offset	Theoretical Grade Elevation	Theoretical Grade Elevations Adjusted For Dead Load Deflection and Grinding
Bk. W. Abut.	635+49.68	-15.65	666.80	666.80
℄ Brg. W. Abut.	635+51.84	-15.65	666.78	666.78
A	635+61.84	-15.65	666.70	666.71
B	635+71.84	-15.65	666.61	666.63
C	635+81.84	-15.65	666.52	666.54
D	635+91.84	-15.65	666.44	666.45
℄ Pier 1	636+04.85	-15.65	666.33	666.33
E	636+14.85	-15.65	666.24	666.25
F	636+24.85	-15.65	666.15	666.18
G	636+34.85	-15.65	666.07	666.10
H	636+44.85	-15.65	665.98	666.02
I	636+54.85	-15.65	665.90	665.92
J	636+64.85	-15.65	665.81	665.82
℄ Pier 2	636+73.85	-15.65	665.73	665.73
K	636+83.85	-15.65	665.65	665.65
L	636+93.85	-15.65	665.56	665.57
M	637+03.85	-15.65	665.47	665.49
N	637+13.85	-15.65	665.39	665.40
℄ Brg. E. Abut.	637+26.85	-15.65	665.28	665.28
Bk. E. Abut.	637+29.02	-15.65	665.26	665.26

BEAM 8

Location	Station	Offset	Theoretical Grade Elevation	Theoretical Grade Elevations Adjusted For Dead Load Deflection and Grinding
Bk. W. Abut.	635+47.48	-9.6	666.93	666.93
℄ Brg. W. Abut.	635+49.54	-9.6	666.91	666.91
A	635+59.54	-9.6	666.82	666.84
B	635+69.54	-9.6	666.74	666.76
C	635+79.54	-9.6	666.65	666.67
D	635+89.54	-9.6	666.57	666.57
℄ Pier 1	636+02.56	-9.6	666.45	666.45
E	636+12.56	-9.6	666.37	666.38
F	636+22.56	-9.6	666.28	666.31
G	636+32.56	-9.6	666.20	666.23
H	636+42.56	-9.6	666.11	666.14
I	636+52.56	-9.6	666.02	666.05
J	636+62.56	-9.6	665.94	665.95
℄ Pier 2	636+71.56	-9.6	665.86	665.86
K	636+81.56	-9.6	665.77	665.78
L	636+91.56	-9.6	665.69	665.70
M	637+01.56	-9.6	665.60	665.62
N	637+11.56	-9.6	665.52	665.53
℄ Brg. E. Abut.	637+24.56	-9.6	665.40	665.40
Bk. E. Abut.	637+26.82	-9.6	665.39	665.39

BEAM 9

Location	Station	Offset	Theoretical Grade Elevation	Theoretical Grade Elevations Adjusted For Dead Load Deflection and Grinding
Bk. W. Abut.	0.00	-3.56	667.04	667.04
℄ Brg. W. Abut.	635+47.45	-3.56	667.02	667.02
A	635+57.45	-3.56	666.93	666.95
B	635+67.45	-3.56	666.85	666.87
C	635+77.45	-3.56	666.76	666.78
D	635+87.45	-3.56	666.68	666.68
℄ Pier 1	636+00.46	-3.56	666.56	666.56
E	636+10.46	-3.56	666.48	666.49
F	636+20.46	-3.56	666.39	666.42
G	636+30.46	-3.56	666.31	666.34
H	636+40.46	-3.56	666.22	666.25
I	636+50.46	-3.56	666.13	666.16
J	636+60.46	-3.56	666.05	666.06
℄ Pier 2	636+69.46	-3.56	665.97	665.97
K	636+79.46	-3.56	665.88	665.89
L	636+89.46	-3.56	665.80	665.81
M	636+99.46	-3.56	665.71	665.73
N	637+09.46	-3.56	665.63	665.64
℄ Brg. E. Abut.	637+22.46	-3.56	665.51	665.51
Bk. E. Abut.	637+24.62	-3.56	665.50	665.50

EB IL-120 PGL

Location	Station	Offset	Theoretical Grade Elevation	Theoretical Grade Elevations Adjusted For Dead Load Deflection and Grinding
Bk. W. Abut.	635+43.99	0.00	667.10	667.10
℄ Brg. W. Abut.	635+46.15	0.00	667.08	667.08
A	635+56.15	0.00	667.00	667.01
B	635+66.15	0.00	666.91	666.93
C	635+76.15	0.00	666.83	666.84
D	635+86.15	0.00	666.74	666.75
℄ Pier 1	635+99.16	0.00	666.63	666.63
E	636+09.16	0.00	666.54	666.55
F	636+19.16	0.00	666.46	666.48
G	636+29.16	0.00	666.37	666.40
H	636+39.16	0.00	666.28	666.32
I	636+49.16	0.00	666.20	666.22
J	636+59.16	0.00	666.11	666.12
℄ Pier 2	636+68.16	0.00	666.03	666.03
K	636+78.16	0.00	665.95	665.95
L	636+88.16	0.00	665.86	665.88
M	636+98.16	0.00	665.78	665.80
N	637+08.16	0.00	665.69	665.71
℄ Brg. E. Abut.	637+21.16	0.00	665.58	665.58
Bk. E. Abut.	637+23.33	0.00	665.56	665.56

BEAM 10

Location	Station	Offset	Theoretical Grade Elevation	Theoretical Grade Elevations Adjusted For Dead Load Deflection and Grinding
Bk. W. Abut.	635+43.99	2.48	667.07	667.07
℄ Brg. W. Abut.	635+45.25	2.48	667.05	667.05
A	635+55.25	2.48	666.97	666.98
B	635+65.25	2.48	666.88	666.90
C	635+75.25	2.48	666.80	666.81
D	635+85.25	2.48	666.71	666.72
℄ Pier 1	635+98.26	2.48	666.60	666.60
E	636+08.26	2.48	666.51	666.52
F	636+18.26	2.48	666.43	666.45
G	636+28.26	2.48	666.34	666.38
H	636+38.26	2.48	666.25	666.29
I	636+48.26	2.48	666.17	666.19
J	636+58.26	2.48	666.08	666.09
℄ Pier 2	636+67.26	2.48	666.01	666.01
K	636+77.26	2.48	665.92	665.92
L	636+87.26	2.48	665.83	665.85
M	636+97.26	2.48	665.75	665.77
N	637+07.26	2.48	665.66	665.68
℄ Brg. E. Abut.	637+20.26	2.48	665.55	665.55
Bk. E. Abut.	637+22.43	2.48	665.53	665.53

MODEL: Default
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PLOT DATE = 06/21/2023	CHECKED - AJN	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DECK ELEVATIONS 3
STRUCTURE NO. 049-0046 (EB) & 049-0047 (WB)
SHEET 5 OF 36 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
333	2021-071-BDR	LAKE	131	80
		CONTRACT NO. 62P09		
	ILLINOIS FED. AID PROJECT			

BEAM 11

Location	Station	Offset	Theoretical Grade Elevation	Theoretical Grade Elevations Adjusted For Dead Load Deflection and Grinding
Bk. W. Abut.	635+40.89	8.52	667.00	667.00
℄ Brg. W. Abut.	635+43.05	8.52	666.98	666.98
A	635+53.05	8.52	666.90	666.91
B	635+63.05	8.52	666.81	666.83
C	635+73.05	8.52	666.73	666.74
D	635+83.05	8.52	666.64	666.65
℄ Pier 1	635+96.06	8.52	666.53	666.53
E	636+06.06	8.52	666.44	666.45
F	636+16.06	8.52	666.36	666.38
G	636+26.06	8.52	666.27	666.30
H	636+36.06	8.52	666.18	666.22
I	636+46.06	8.52	666.10	666.12
J	636+56.06	8.52	666.01	666.02
℄ Pier 2	636+65.06	8.52	665.93	665.93
K	636+75.06	8.52	665.85	665.85
L	636+85.06	8.52	665.76	665.78
M	636+95.06	8.52	665.68	665.69
N	637+05.06	8.52	665.59	665.61
℄ Brg. E. Abut.	637+18.06	8.52	665.48	665.48
Bk. E. Abut.	637+20.23	8.52	665.46	665.46

BEAM 12

Location	Station	Offset	Theoretical Grade Elevation	Theoretical Grade Elevations Adjusted For Dead Load Deflection and Grinding
Bk. W. Abut.	635+38.69	14.56	666.92	666.92
℄ Brg. W. Abut.	635+40.85	14.56	666.90	666.90
A	635+50.85	14.56	666.81	666.83
B	635+60.85	14.56	666.73	666.75
C	635+70.85	14.56	666.64	666.66
D	635+80.85	14.56	666.55	666.56
℄ Pier 1	635+93.86	14.56	666.44	666.44
E	636+03.86	14.56	666.36	666.37
F	636+13.86	14.56	666.27	666.30
G	636+23.86	14.56	666.18	666.22
H	636+33.86	14.56	666.10	666.13
I	636+43.86	14.56	666.01	666.04
J	636+53.86	14.56	665.93	665.94
℄ Pier 2	636+62.86	14.56	665.85	665.85
K	636+72.86	14.56	665.76	665.77
L	636+82.86	14.56	665.68	665.69
M	636+92.86	14.56	665.59	665.61
N	637+02.86	14.56	665.51	665.52
℄ Brg. E. Abut.	637+15.86	14.56	665.39	665.39
Bk. E. Abut.	637+18.03	14.56	665.37	665.37

BEAM 13

Location	Station	Offset	Theoretical Grade Elevation	Theoretical Grade Elevations Adjusted For Dead Load Deflection and Grinding
Bk. W. Abut.	635+36.49	20.6	666.82	666.82
℄ Brg. W. Abut.	635+38.65	20.6	666.80	666.80
A	635+48.65	20.6	666.71	666.72
B	635+58.65	20.6	666.62	666.64
C	635+68.65	20.6	666.54	666.55
D	635+78.65	20.6	666.45	666.46
℄ Pier 1	635+91.66	20.6	666.34	666.34
E	636+01.66	20.6	666.25	666.26
F	636+11.66	20.6	666.17	666.19
G	636+21.66	20.6	666.08	666.12
H	636+31.66	20.6	666.00	666.03
I	636+41.66	20.6	665.91	665.93
J	636+51.66	20.6	665.82	665.83
℄ Pier 2	636+60.66	20.6	665.75	665.75
K	636+70.66	20.6	665.66	665.67
L	636+80.66	20.6	665.58	665.59
M	636+90.66	20.6	665.49	665.51
N	637+00.66	20.6	665.40	665.42
℄ Brg. E. Abut.	637+13.66	20.6	665.29	665.29
Bk. E. Abut.	637+15.83	20.6	665.27	665.27

BEAM 14

Location	Station	Offset	Theoretical Grade Elevation	Theoretical Grade Elevations Adjusted For Dead Load Deflection and Grinding
Bk. W. Abut.	635+34.29	26.65	666.71	666.71
℄ Brg. W. Abut.	635+36.45	26.65	666.69	666.69
A	635+46.45	26.65	666.61	666.62
B	635+56.45	26.65	666.52	666.54
C	635+66.45	26.65	666.44	666.45
D	635+76.45	26.65	666.35	666.36
℄ Pier 1	635+89.46	26.65	666.24	666.24
E	635+99.46	26.65	666.15	666.16
F	636+09.46	26.65	666.07	666.09
G	636+19.46	26.65	665.98	666.02
H	636+29.46	26.65	665.89	665.93
I	636+39.46	26.65	665.81	665.83
J	636+49.46	26.65	665.72	665.73
℄ Pier 2	636+58.46	26.65	665.65	665.65
K	636+68.46	26.65	665.56	665.56
L	636+78.46	26.65	665.47	665.49
M	636+88.46	26.65	665.39	665.41
N	636+98.46	26.65	665.30	665.32
℄ Brg. E. Abut.	637+11.46	26.65	665.19	665.19
Bk. E. Abut.	637+13.63	26.65	665.17	665.17

SD-06

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PLOT SCALE =	DRAWN - AT/PS	REVISED -		SHEET 6 OF 36 SHEETS
PLOT DATE = 06/21/2023	CHECKED - AJN	REVISED -		

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
333	2021-071-BDR	LAKE	131	81
		CONTRACT NO. 62P09		
	ILLINOIS FED. AID PROJECT			

MODEL: Default
FILE NAME: P:\040058 - IDOT\040058-01-002 (ENG) - PTB 195-016 Phase II Var Var\Engineering\WO 28 - 62P09 IL-120 at DPR\500 Drawings\502 CADD Sheets\04900046_47-62P09_Deck Elevations 4.dgn
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NORTH EDGE OF SHOULDER

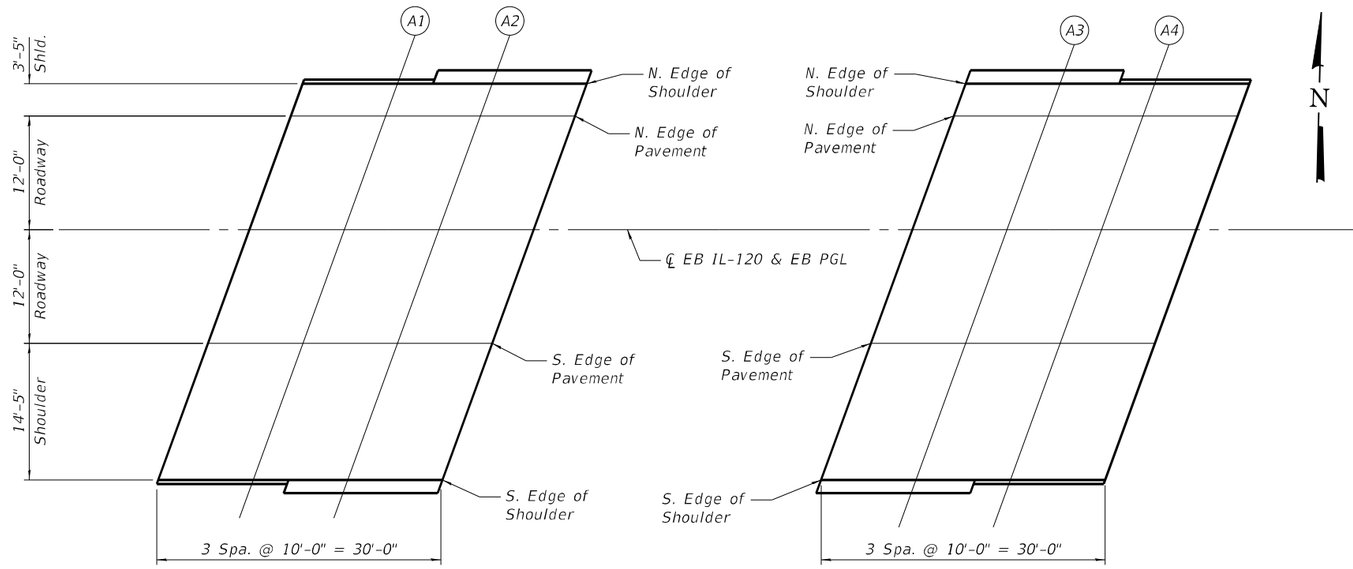
Location	Station	Offset	Theoretical Grade Elevations
W. End of W. Approach	635+20.6	15.42	667.03
A1	635+30.6	15.42	666.94
A2	635+40.6	15.42	666.86
E. End of W. Approach	635+50.6	15.42	666.77
W. End of E. Approach	637+27.94	15.42	665.24
A3	637+37.94	15.42	665.15
A4	637+47.94	15.42	665.05
E. End of E. Approach	637+57.94	15.42	664.95

NORTH EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
W. End of W. Approach	635+19.36	12.00	667.11
A1	635+29.36	12.00	667.02
A2	635+39.36	12.00	666.94
E. End of W. Approach	635+49.36	12.00	666.85
W. End of E. Approach	637+26.70	12.00	665.32
A3	637+36.70	12.00	665.23
A4	637+46.70	12.00	665.13
E. End of E. Approach	637+56.70	12.00	665.03

℄ EB IL-120 AND EB PROFILE GRADE LINE

Location	Station	Offset	Theoretical Grade Elevations
W. End of W. Approach	635+14.99	0.00	667.32
A1	635+24.99	0.00	667.24
A2	635+34.99	0.00	667.15
E. End of W. Approach	635+44.99	0.00	667.07
W. End of E. Approach	637+22.33	0.00	665.53
A3	637+32.33	0.00	665.45
A4	637+42.33	0.00	665.35
E. End of E. Approach	637+52.33	0.00	665.25



WEST APPROACH

EAST APPROACH

PLAN

SOUTH EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations
W. End of W. Approach	635+05.38	26.42	666.93
A1	635+15.38	26.42	666.85
A2	635+25.38	26.42	666.77
E. End of W. Approach	635+35.38	26.42	666.68
W. End of E. Approach	637+12.72	26.42	665.15
A3	637+22.72	26.42	665.06
A4	637+32.72	26.42	664.98
E. End of E. Approach	637+42.72	26.42	664.88

SOUTH EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
W. End of W. Approach	635+10.62	12.00	667.18
A1	635+20.62	12.00	667.10
A2	635+30.62	12.00	667.01
E. End of W. Approach	635+40.62	12.00	666.93
W. End of E. Approach	637+17.96	12.00	665.39
A3	637+27.96	12.00	665.31
A4	637+37.96	12.00	665.22
E. End of E. Approach	637+47.96	12.00	665.12

SD-07

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

APPROACH SLAB ELEVATIONS - EASTBOUND STRUCTURE
STRUCTURE NO. 049-0046 (EB) & 049-0047 (WB)
SHEET 7 OF 36 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
333	2021-071-BDR	LAKE	131	82
		CONTRACT NO. 62P09		
	ILLINOIS FED. AID PROJECT			

MODEL: 0740089-70D61-009
FILE NAME: P:\040058 - IDOT\040058-01-002 (ENG) - PTB 195-016 Phase II Var Var\Engineering\WO 28 - 62P09 IL-120 at DPR\500 Drawings\502 CADD Sheets\049046-62P09_Approach Slab Elev.dgn
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NORTH EDGE OF SHOULDER

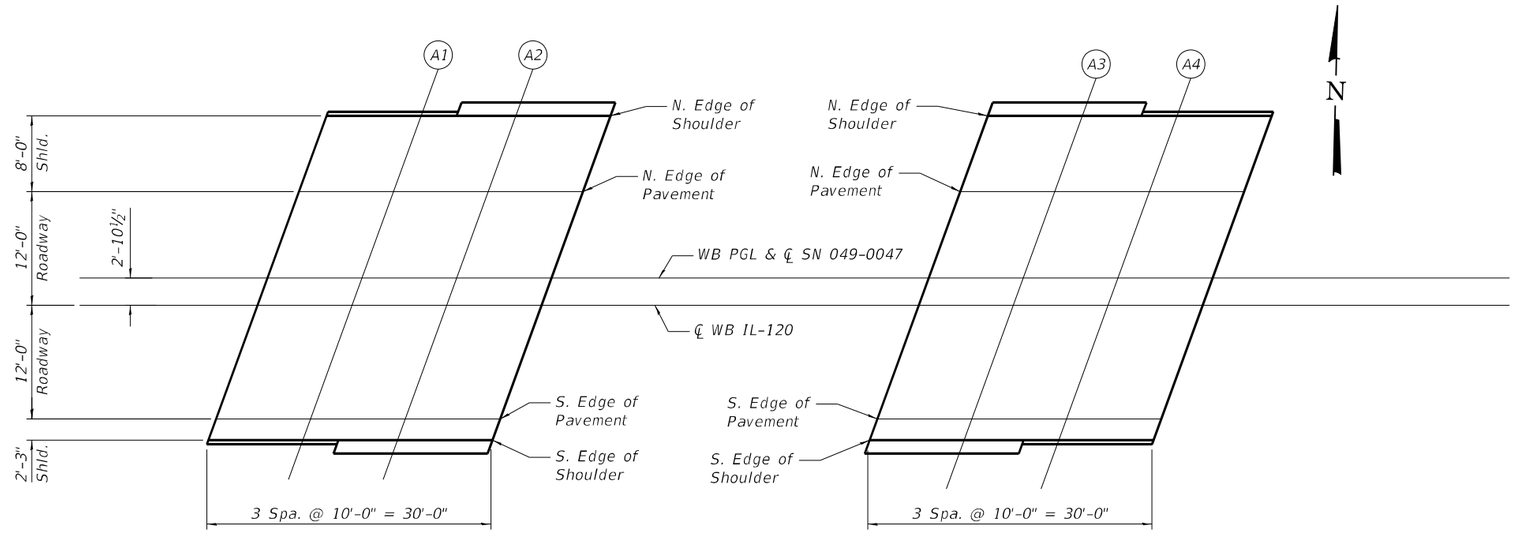
Location	Station	Offset	Theoretical Grade Elevations
W. End of W. Approach	135+43.31	17.13	666.80
A1	135+53.31	17.13	666.71
A2	135+63.31	17.13	666.62
E. End of W. Approach	135+73.31	17.13	666.53
W. End of E. Approach	137+50.65	17.13	664.86
A3	137+60.65	17.13	664.77
A4	137+70.65	17.13	664.67
E. End of E. Approach	137+80.65	17.13	664.58

NORTH EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
W. End of W. Approach	135+40.4	9.13	666.98
A1	135+50.4	9.13	666.90
A2	135+60.4	9.13	666.81
E. End of W. Approach	135+70.4	9.13	666.72
W. End of E. Approach	137+47.74	9.13	665.05
A3	137+57.74	9.13	664.96
A4	137+67.74	9.13	664.86
E. End of E. Approach	137+77.74	9.13	664.77

WESTBOUND PROFILE GRADE LINE

Location	Station	Offset	Theoretical Grade Elevations
W. End of W. Approach	135+37.08	0.00	667.14
A1	135+47.08	0.00	667.06
A2	135+57.08	0.00	666.98
E. End of W. Approach	135+67.08	0.00	666.89
W. End of E. Approach	137+44.42	0.00	665.22
A3	137+54.42	0.00	665.12
A4	137+64.42	0.00	665.03
E. End of E. Approach	137+74.42	0.00	664.94



WEST APPROACH

EAST APPROACH

PLAN

SOUTH EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations
W. End of W. Approach	135+30.85	17.13	666.97
A1	135+40.85	17.13	666.89
A2	135+50.85	17.13	666.81
E. End of W. Approach	135+60.85	17.13	666.72
W. End of E. Approach	137+38.19	17.13	665.05
A3	137+48.19	17.13	664.96
A4	137+58.19	17.13	664.86
E. End of E. Approach	137+68.19	17.13	664.77

SOUTH EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
W. End of W. Approach	135+31.67	14.88	667.01
A1	135+41.67	14.88	666.93
A2	135+51.67	14.88	666.84
E. End of W. Approach	135+61.67	14.88	666.76
W. End of E. Approach	137+39.01	14.88	665.09
A3	137+49.01	14.88	664.99
A4	137+59.01	14.88	664.90
E. End of E. Approach	137+69.01	14.88	664.81

℄ WESTBOUND IL-120

Location	Station	Offset	Theoretical Grade Elevations
W. End of W. Approach	135+38.13	2.88	667.18
A1	135+48.13	2.88	667.10
A2	135+58.13	2.88	667.01
E. End of W. Approach	135+68.13	2.88	666.92
W. End of E. Approach	137+45.47	2.88	665.25
A3	137+55.47	2.88	665.16
A4	137+65.47	2.88	665.06
E. End of E. Approach	137+75.47	2.88	664.97

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PLOT DATE = 06/21/2023	CHECKED - AJN	REVISED -	

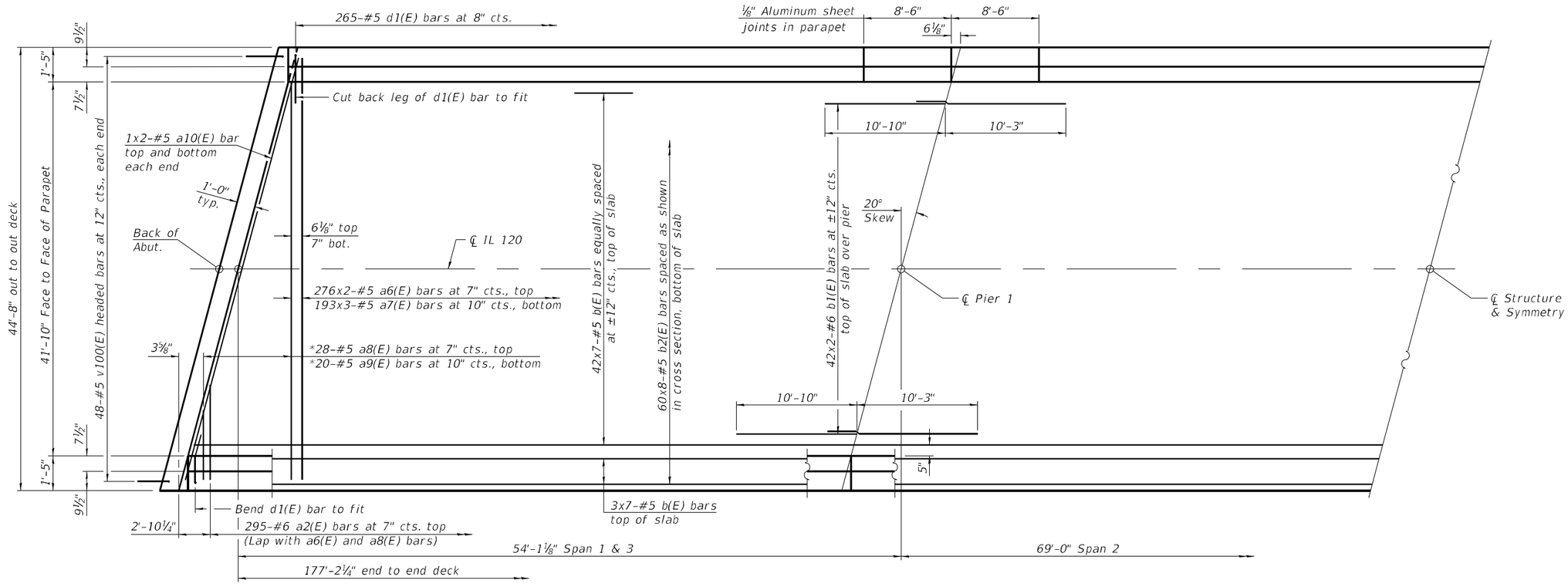
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

APPROACH SLAB ELEVATIONS - WESTBOUND STRUCTURE
STRUCTURE NO. 049-0046 (EB) & 049-0047 (WB)

SHEET 8 OF 36 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
333	2021-071-BDR	LAKE	131	83
		CONTRACT NO. 62P09		
	ILLINOIS FED. AID PROJECT			

MODEL: 0740089-70D61-009
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MINIMUM BAR LAP

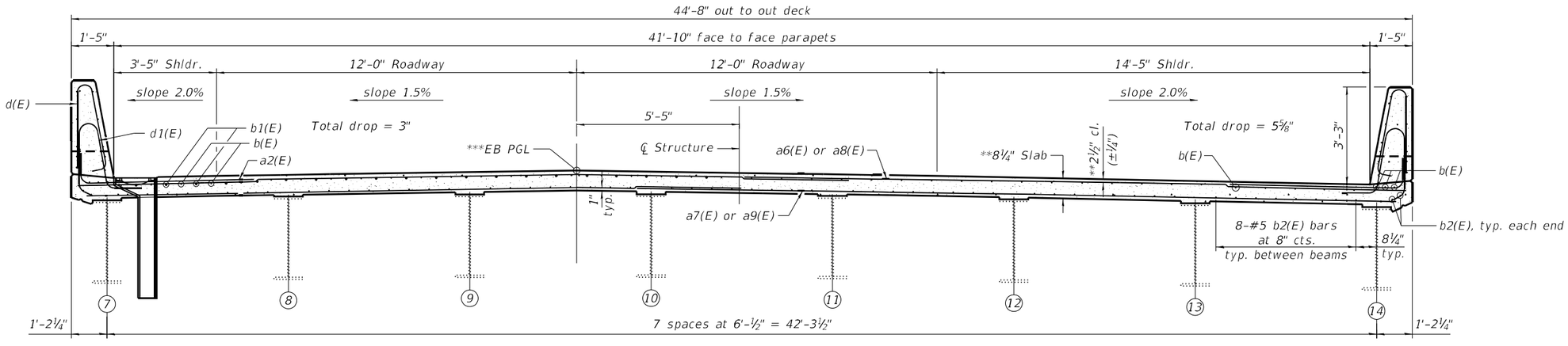
#5 bar = 3'-6"
#6 bar = 4'-6"

* See Field Cutting Diagram on sheet SD-10 of SD-35.

** Prior to grinding
*** After grinding

PARTIAL PLAN

Notes:
See sheet SD-10 of SD-36 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.



NEAR PIER — NEAR MIDSPAN

CROSS SECTION

(Looking East)

MODEL: Default
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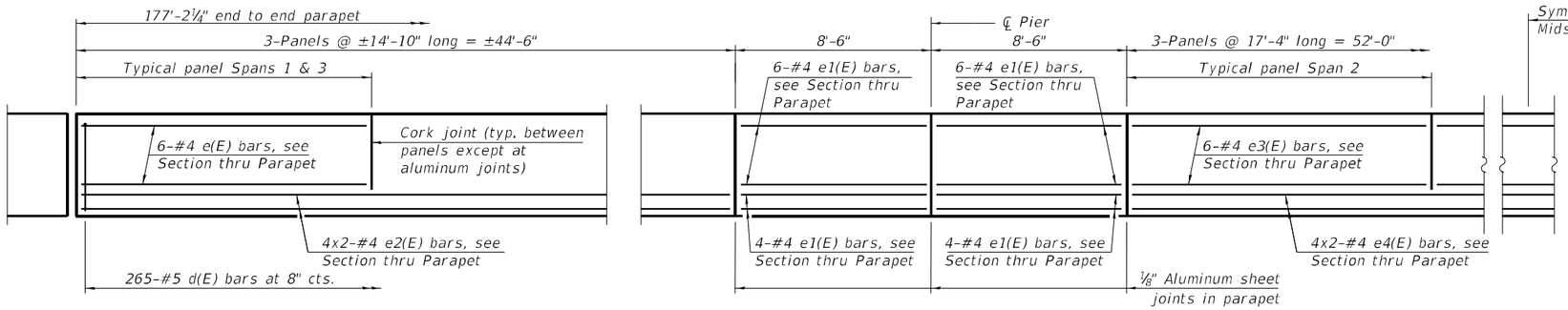
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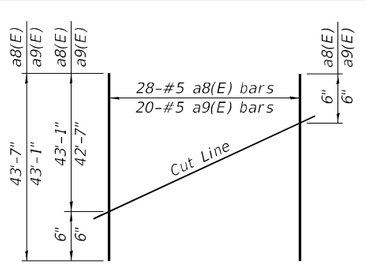
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUPERSTRUCTURE - DECK - EASTBOUND STRUCTURE
STRUCTURE NO. 049-0046 (EB) & 049-0047 (WB)
SHEET 9 OF 36 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
333	2021-071-BDR	LAKE	131	84
		CONTRACT NO. 62P09		
	ILLINOIS	FED. AID PROJECT		



INSIDE ELEVATION OF PARAPET

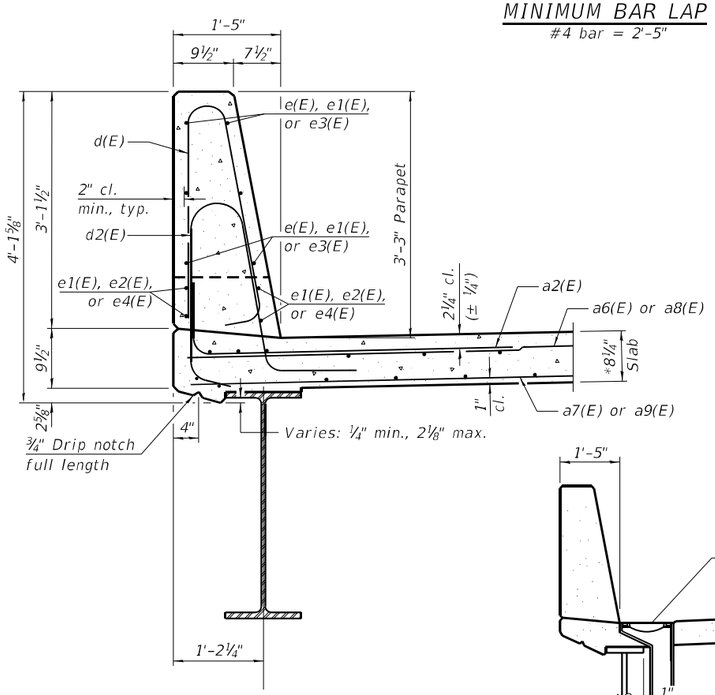


FIELD CUTTING DIAGRAM

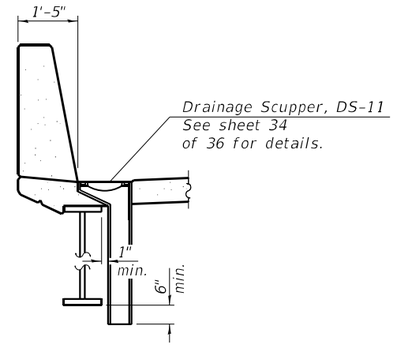
Order a8(E) and a9(E) bars full length. Cut as shown and use remainder of bars in opposite end of deck.

MINIMUM BAR LAP

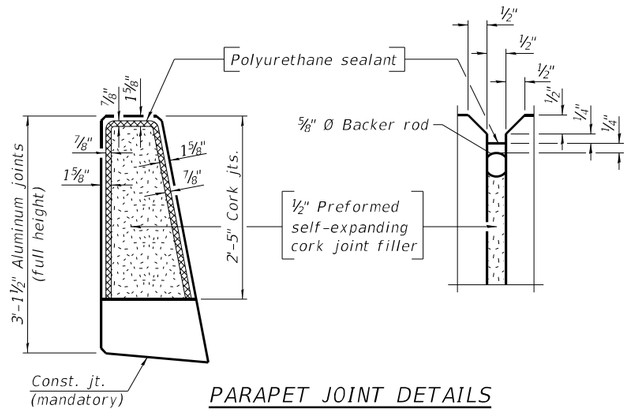
#4 bar = 2'-5"



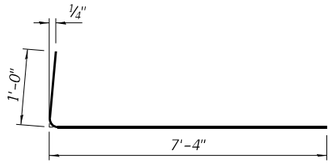
SECTION THRU PARAPET



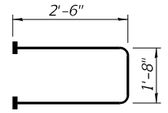
SECTION A-A



PARAPET JOINT DETAILS



BAR a2(E)



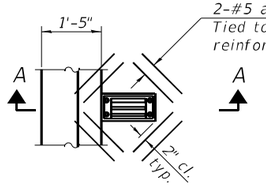
BAR s10(E)

(Headed)

SUPERSTRUCTURE BILL OF MATERIAL

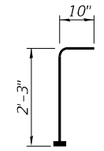
Bar	No.	Size	Length	Shape
a2(E)	590	#6	8'-4"	
a6(E)	552	#5	23'-11"	
a7(E)	579	#5	17'-2"	
a8(E)	28	#5	43'-7"	
a9(E)	20	#5	43'-1"	
a10(E)	8	#5	25'-3"	
a11(E)	48	#5	1'-6"	
b(E)	336	#5	28'-3"	
b1(E)	168	#6	21'-1"	
b2(E)	480	#5	25'-2"	
d(E)	530	#5	6'-5"	
d2(E)	530	#5	6'-8"	
e(E)	72	#4	14'-6"	
e1(E)	80	#4	8'-2"	
e2(E)	32	#4	23'-6"	
e3(E)	36	#4	17'-0"	
e4(E)	16	#4	27'-0"	
h1(E)	16	#5	25'-5"	
m17(E)	8	#7	26'-0"	
m18(E)	28	#6	5'-6"	
m19(E)	8	#6	0'-10"	
m20(E)	28	#5	5'-8"	
m21(E)	8	#5	0'-9"	
m22(E)	8	#6	25'-8"	
m23(E)	8	#4	24'-10"	
s10(E)	120	#5	6'-8"	
s11(E)	120	#6	9'-1"	
u10(E)	96	#4	3'-0"	
u11(E)	96	#4	2'-8"	
v100(E)	96	#5	3'-1"	
Reinforcement Bars, Epoxy Coated		Lbs.	76,220	
Concrete Superstructure		Cu. Yds.	287.2	
Concrete Structures		Cu. Yds.	3.6	

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



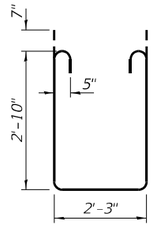
PLAN

Note:
Cut longitudinal reinforcement to clear drainage scuppers.

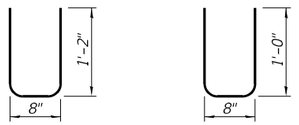


BAR v100(E)

(Headed)

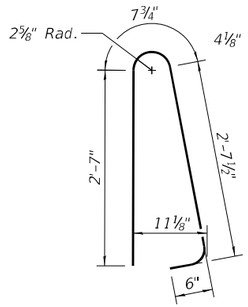


BAR s11(E)

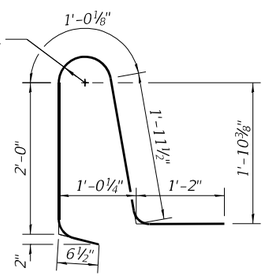


BAR u10(E)

BAR u11(E)



BAR d(E)



BAR d2(E)

Notes:

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

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

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

SD-10

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	PLOT SCALE =	DRAWN - AT/PS	REVISED -	
	PLOT DATE = 10/10/2023	CHECKED - AJN	REVISED -	

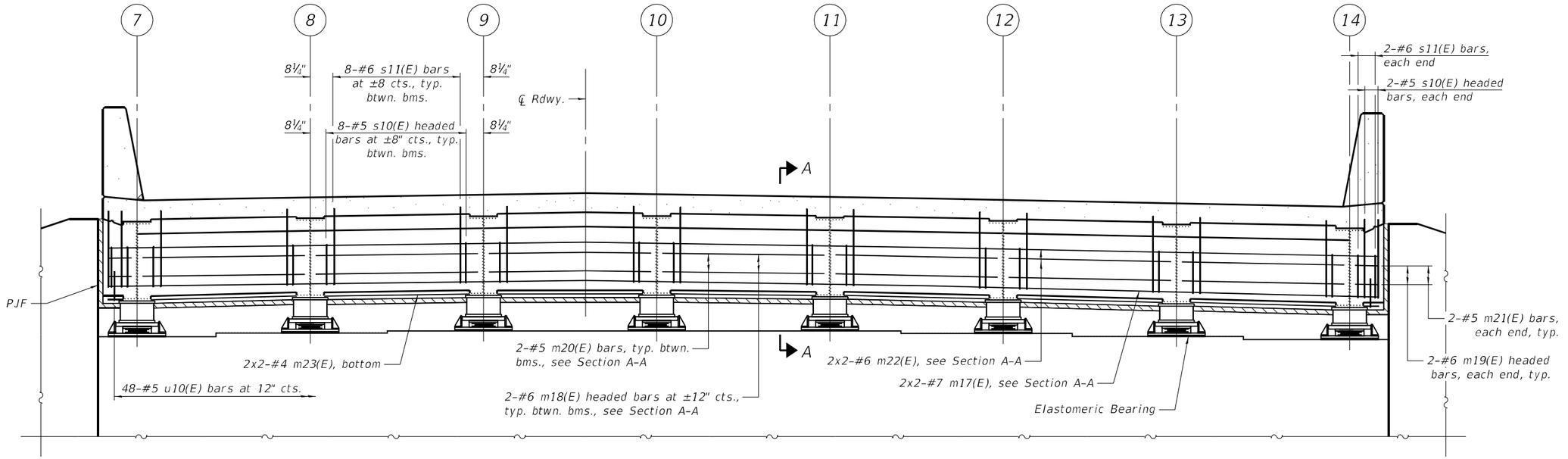
SUPERSTRUCTURE DETAILS - EASTBOUND STRUCTURE
STRUCTURE NO. 049-0046 (EB) & 049-0047 (WB)

SHEET 10 OF 36 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
333	2021-071-BDR	LAKE	131	85
		CONTRACT NO. 62P09		
		ILLINOIS	FED. AID PROJECT	

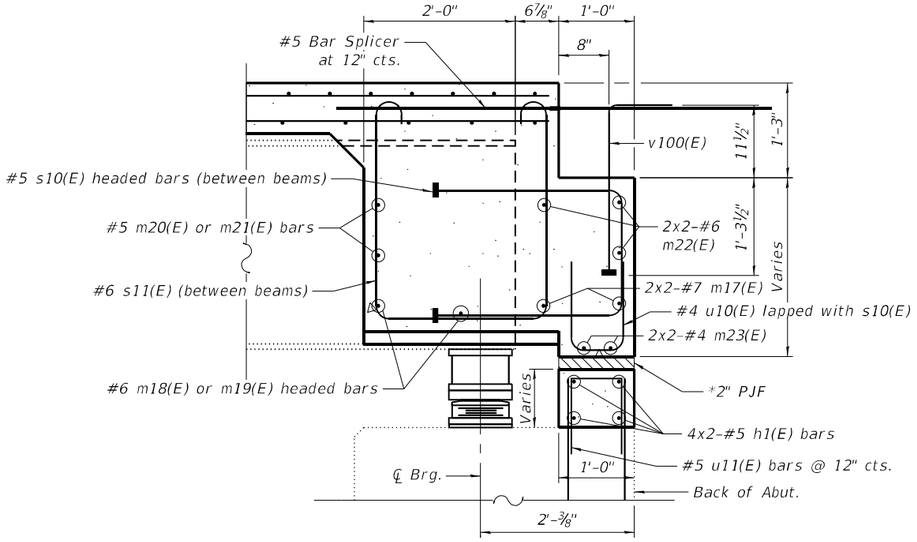
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END DIAPHRAGM AT EAST ABUTMENT

(Looking East - West Abutment Similar)
(Dim. measured at right ∠)



SECTION A-A

(at Right ∠)
** Cost included with Concrete Superstructure*

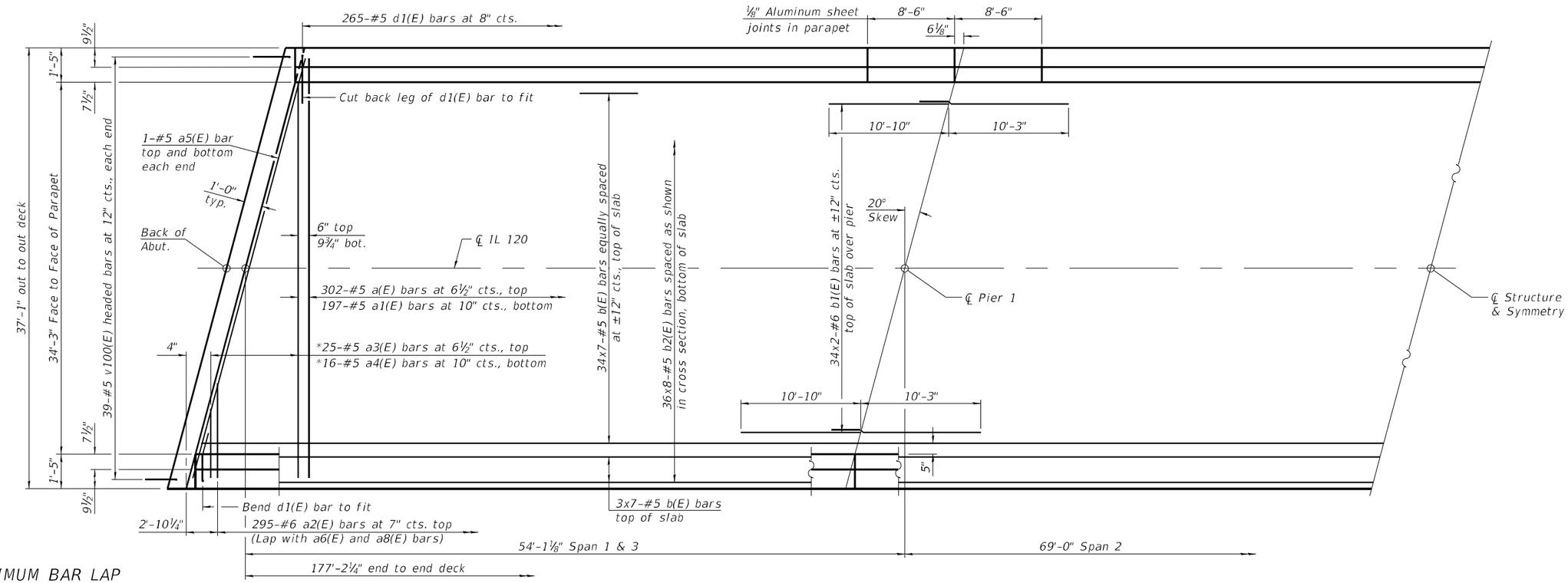
SD-11

Bowman 10 S. LaSalle Street, Suite 2110 Chicago, Illinois 60603 312-494-0360 www.jbowman.com	USER NAME = atiemann	DESIGNED - AT	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	END DIAPHRAGM - EASTBBOUND STRUCTURE STRUCTURE NO. 049-0046 (EB) & 049-0047 (WB)
		CHECKED - AJN	REVISED -		
	PLOT SCALE =	DRAWN - AT/PS	REVISED -		SHEET 11 OF 36 SHEETS
	PLOT DATE = 10/17/2023	CHECKED - AJN	REVISED -		

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
333	2021-071-BDR	LAKE	131	86
		CONTRACT NO. 62P09		
	ILLINOIS FED. AID PROJECT			

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MINIMUM BAR LAP

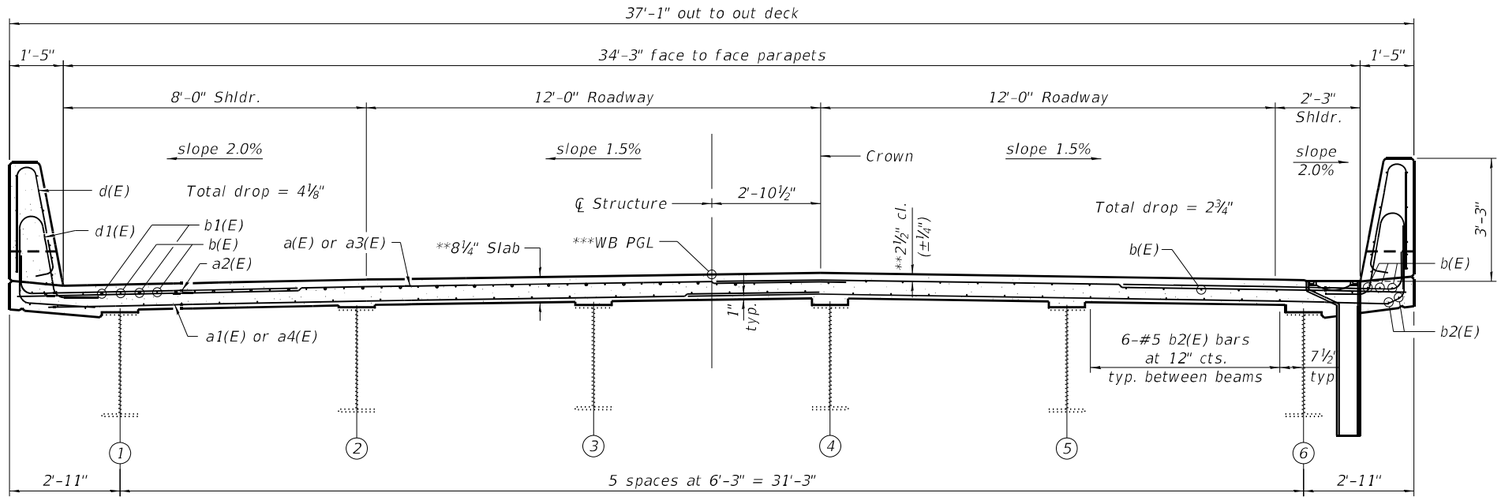
#5 bar = 3'-6"
#6 bar = 4'-6"

PARTIAL PLAN

Notes:
See sheet SD-13 of SD-36 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 Field Cutting Diagram on sheet SD-13 of SD-35.

** Prior to grinding
*** After grinding



NEAR PIER — NEAR MIDSPAN

CROSS SECTION

(Looking East)

MODEL: Default
FILE NAME: P:\040058 - IDOT\040058-01-002 (ENG) - PTB 195-016 Phase II Var Var\Engineering\WO 28 - 62P09 IL-120 at DPR500 Drawings\502 CADD Sheets\040047-62P09_Superstructure 1.dgn
06/21/2023 4:43:35 PM

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USER NAME = pskolba
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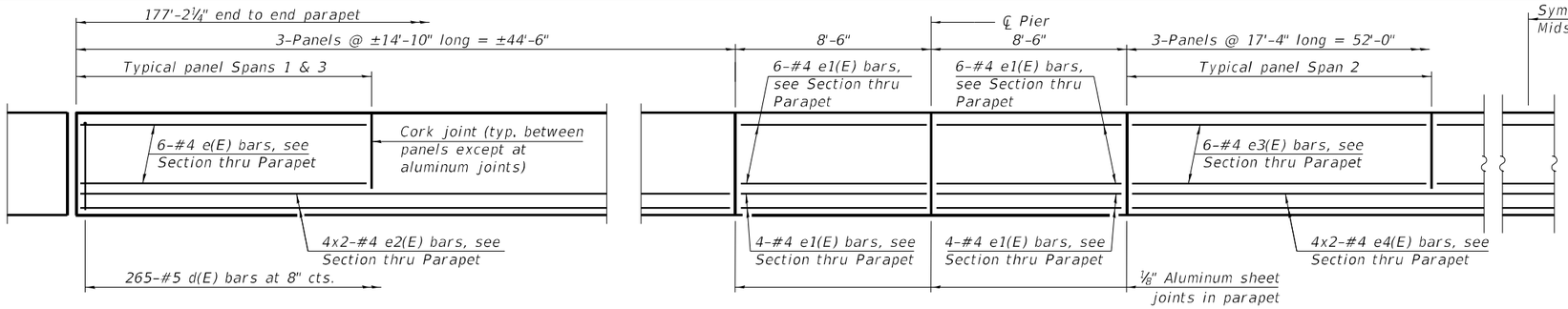
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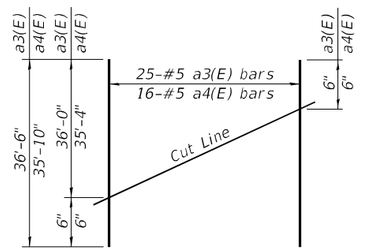
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUPERSTRUCTURE - DECK - WESTBOUND STRUCTURE
STRUCTURE NO. 049-0046 (EB) & 049-0047 (WB)
SHEET 12 OF 36 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
333	2021-071-BDR	LAKE	131	87
		CONTRACT NO. 62P09		
		ILLINOIS	FED. AID PROJECT	



INSIDE ELEVATION OF PARAPET

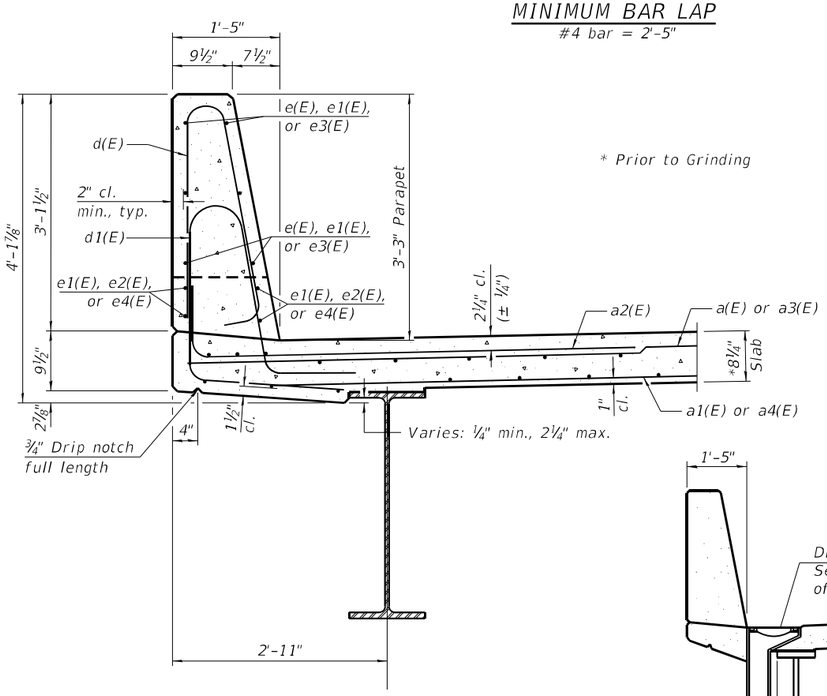


FIELD CUTTING DIAGRAM

Order a3(E) and a4(E) bars full length. Cut as shown and use remainder of bars in opposite end of deck.

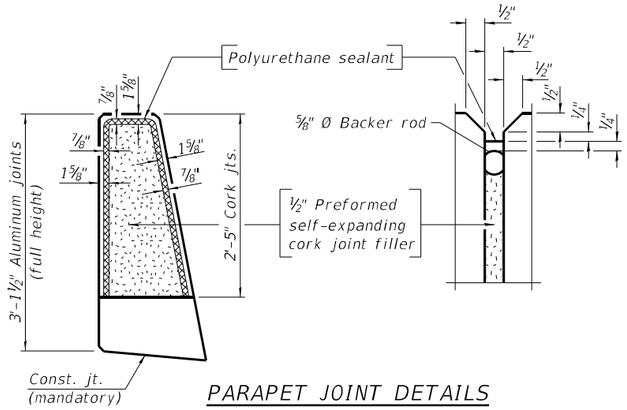
MINIMUM BAR LAP

#4 bar = 2'-5"

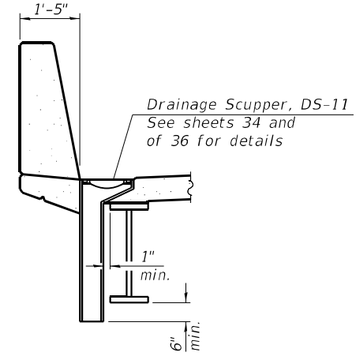


* Prior to Grinding

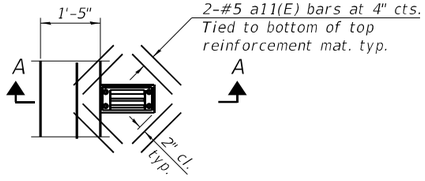
SECTION THRU PARAPET



PARAPET JOINT DETAILS

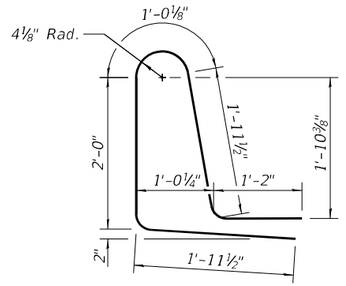


SECTION A-A



PLAN

Note:
Cut longitudinal reinforcement to clear drainage scuppers.



BAR d1(E)

SUPERSTRUCTURE BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a(E)	302	#5	36'-9"	
a1(E)	197	#5	35'-0"	
a2(E)	590	#6	8'-4"	
a3(E)	25	#5	36'-6"	
a4(E)	16	#5	35'-10"	
a5(E)	4	#5	39'-0"	
a11(E)	16	#5	1'-6"	
b(E)	280	#5	28'-3"	
b1(E)	136	#6	21'-1"	
b2(E)	288	#5	25'-2"	
d(E)	530	#5	6'-5"	
d1(E)	530	#5	8'-1"	
e(E)	72	#4	14'-6"	
e1(E)	80	#4	8'-2"	
e2(E)	32	#4	23'-6"	
e3(E)	36	#4	17'-0"	
e4(E)	16	#4	27'-0"	
h(E)	8	#5	39'-0"	
m10(E)	4	#7	39'-0"	
m11(E)	20	#6	5'-8"	
m12(E)	8	#6	2'-5"	
m13(E)	20	#5	5'-11"	
m14(E)	8	#5	2'-7"	
m15(E)	6	#6	39'-1"	
m16(E)	8	#4	20'-9"	
s10(E)	72	#5	6'-8"	
s11(E)	96	#6	9'-1"	
u10(E)	80	#4	3'-0"	
u11(E)	80	#4	2'-8"	
v100(E)	78	#5	3'-1"	
Reinforcement Bars, Epoxy Coated			Lbs.	62,180
Concrete Superstructure			Cu. Yds.	248.9
Concrete Structures			Cu. Yds.	2.7

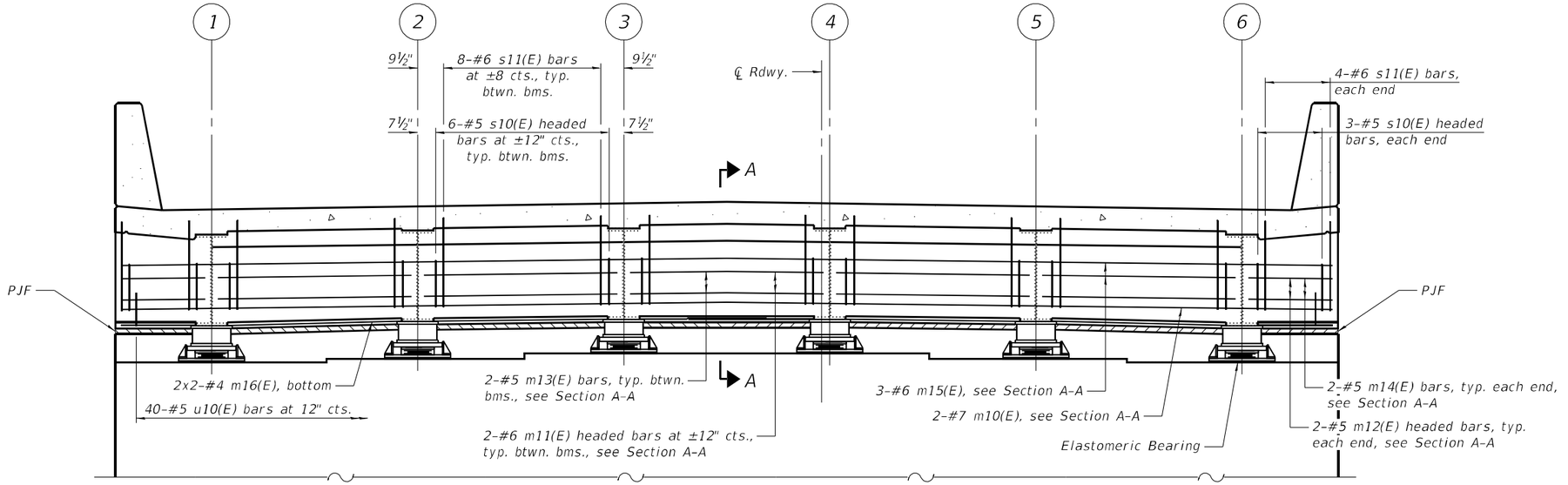
Bars indicated thus 1 x 2-#4 etc. indicates 1 line of bars with 2 lengths per line.

Notes:
The ⅛" Aluminum sheet shall be ASTM B 209 alloy 3003-H14 and coated to minimize reaction with wet concrete. Cost included with Concrete Superstructure.
The Polyurethane Sealant shall be according to Article 1050.04 of the Std. Spec. and the color shall be gray.
Headed bars shall conform to ASTM A970 with threaded attachment; Class HA; and reinforcement bars conforming to ASTM A706. Cost included with Reinforcement Bars, Epoxy Coated.

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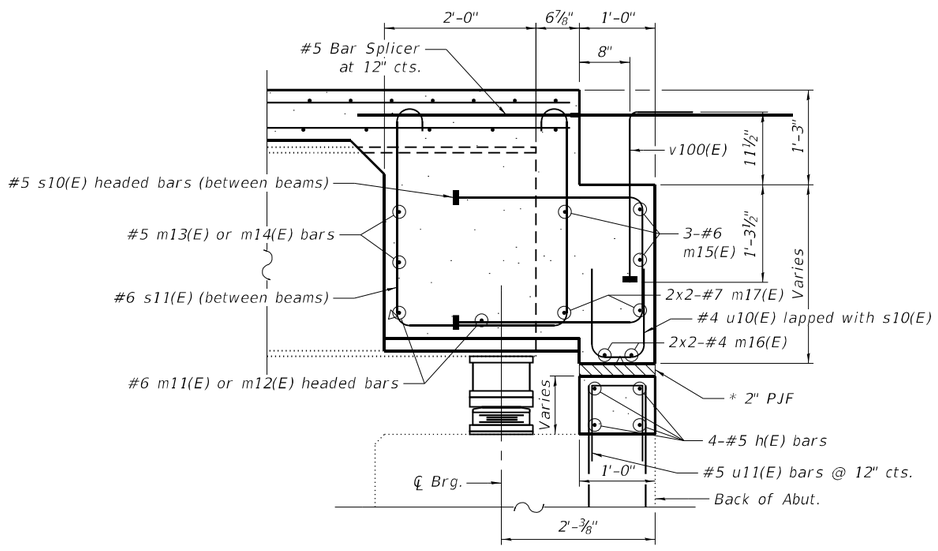
USER NAME = pskolba	DESIGNED - AT	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUPERSTRUCTURE DETAILS - WESTBOUND STRUCTURE STRUCTURE NO. 049-0046 (EB) & 049-0047 (WB)	F.A.P. RTE. 333 | SECTION 2021-071-BDR | COUNTY LAKE | TOTAL SHEETS 131 | SHEET NO. 88
	CHECKED - AJN	REVISED -			CONTRACT NO. 62P09
PLOT SCALE =	DRAWN - AT/PS	REVISED -		SHEET 13 OF 36 SHEETS	ILLINOIS | FED. AID PROJECT
PLOT DATE = 10/10/2023	CHECKED - AJN	REVISED -			

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END DIAPHRAGM AT EAST ABUTMENT

(Looking East – West Abutment Similar)
(Dim. measured at right ∠)



SECTION A-A

(at Right ∠)
* Cost included with Concrete Superstructure

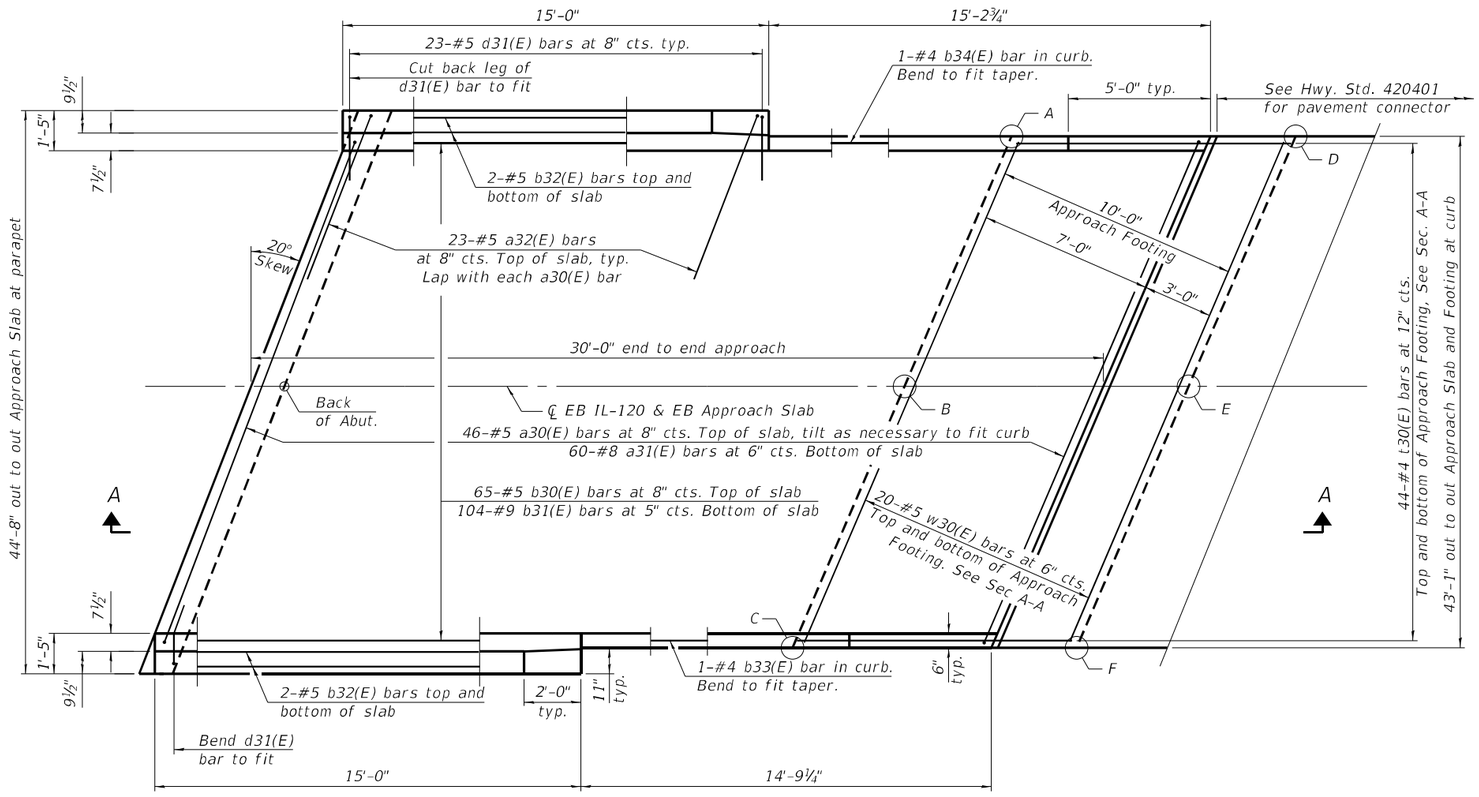
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PLOT DATE = 10/17/2023	CHECKED - AJN	REVISED -		

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
333	2021-071-BDR	LAKE	131	89
		CONTRACT NO. 62P09		
		ILLINOIS	FED. AID PROJECT	

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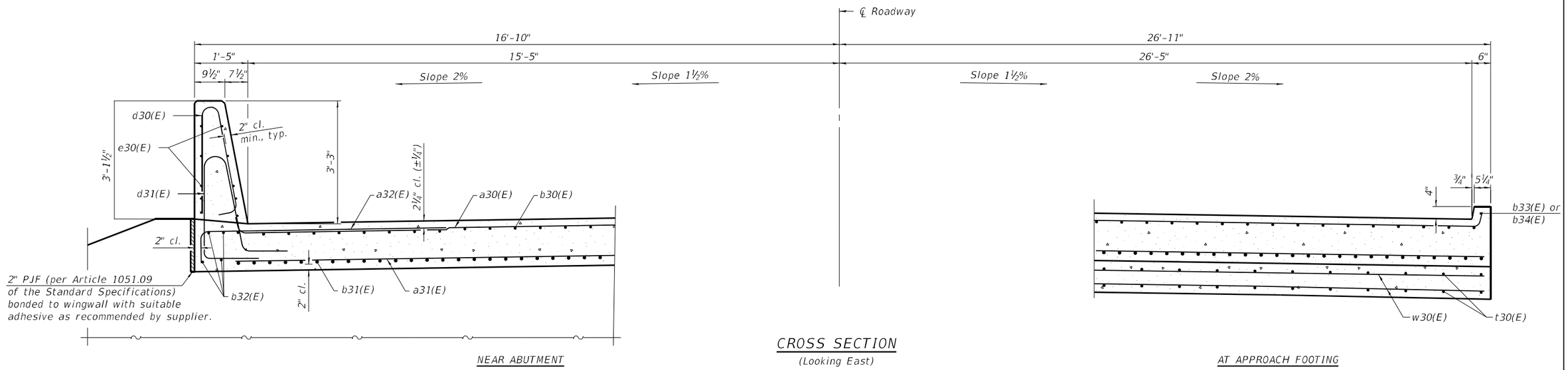


PLAN

(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 - NE	665.62	664.79	A - NW	663.78	662.94
B - E	666.01	665.18	B - W	664.08	663.25
C - SE	665.72	664.88	C - SW	663.70	662.87
D - NW	665.70	664.87	D - NE	663.66	662.83
E - W	666.10	665.27	E - E	663.97	663.14
F - SW	665.81	664.97	F - SE	663.60	662.77



CROSS SECTION

(Looking East)

NEAR ABUTMENT

AT APPROACH FOOTING

MODEL: Default
FILE NAME: P:\040058 - IDOT\040058-01-002 (ENG) - PTB 195-016 Phase II Var Var\Engineering\WO 28 - 62P09 IL-120 at DPR500 Drawings\502 CADD Sheets\040046-62P09_Approach Slab 1.dgn

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USER NAME = pskolba
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PLOT DATE = 06/21/2023

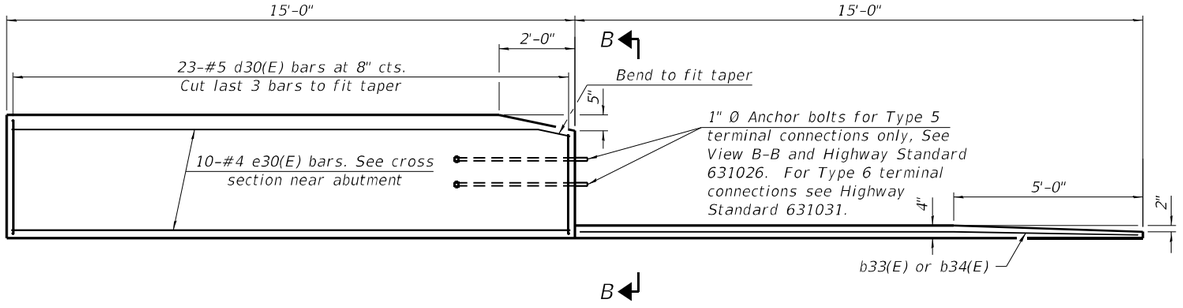
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CHECKED - AJN

REVISED -
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REVISED -
REVISED -

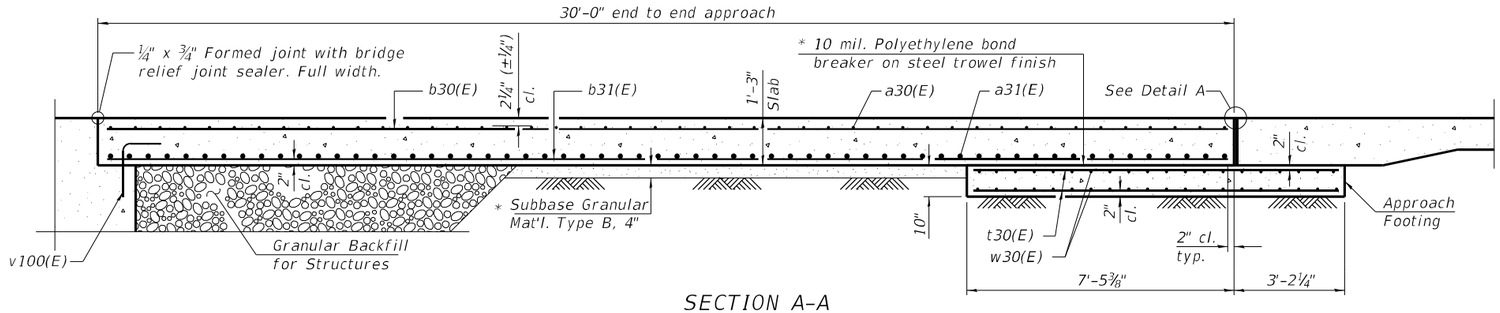
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

APPROACH SLAB - EASTBOUND STRUCTURE
STRUCTURE NO. 049-0046 (EB) & 049-0047 (WB)
SHEET 15 OF 36 SHEETS

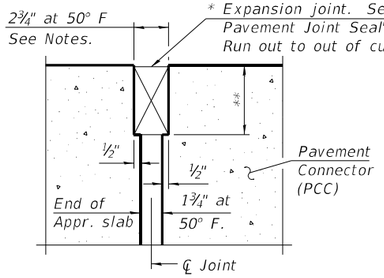
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
333	2021-071-BDR	LAKE	131	90
		CONTRACT NO.	62P09	
		ILLINOIS	FED. AID PROJECT	



INSIDE ELEVATION OF PARAPET AND CURB



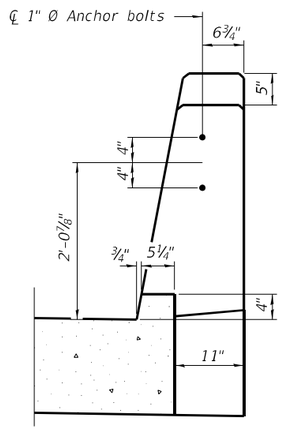
SECTION A-A



DETAIL A
(at Rt. ∠'s)

* Cost included with Concrete Superstructure (Approach Slab).

** Per manufacturer recommendations



VIEW B-B

Notes:

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

Parapet concrete shall be paid for as Concrete Superstructure.

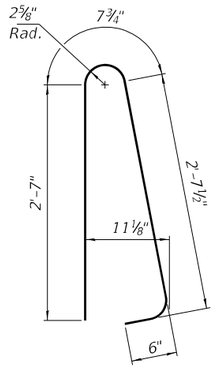
Approach slab shall be paid for as Concrete Superstructure (Approach Slab).

Approach footing concrete shall be paid for as Concrete Structures.

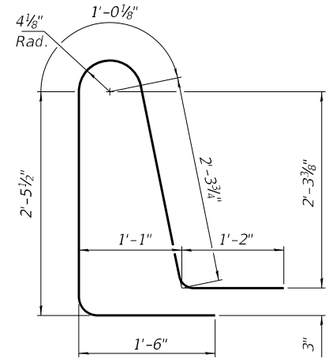
The approach footing maximum applied service bearing pressure (Qmax) = 2.0 ksf.

Cost of excavation for approach footing included with Concrete Structures.

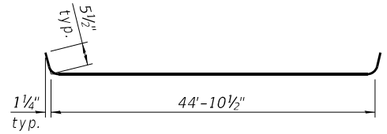
For Granular Backfill for Structures and drainage treatment details, see sheet SD-02 of SD-36.



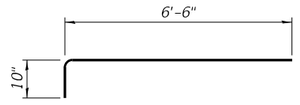
BAR d30(E)



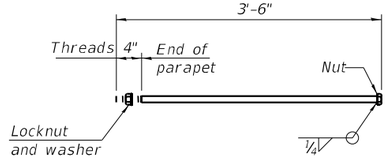
BAR d31(E)



BAR a30(E)



BAR a32(E)



*1" Ø ANCHOR BOLT
(Anchor bolt assemblies shall be galvanized according to Article 1006.09 of the Standard Specifications)

TWO APPROACHES BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a30(E)	92	#5	46'-2"	
a31(E)	120	#8	45'-6"	
a32(E)	92	#5	7'-4"	
b30(E)	132	#5	29'-8"	
b31(E)	208	#9	29'-8"	
b32(E)	16	#5	14'-8"	
b33(E)	2	#4	14'-5"	
b34(E)	2	#4	14'-10"	
d30(E)	92	#5	6'-5"	
d31(E)	92	#5	8'-6"	
e30(E)	40	#4	14'-8"	
t30(E)	176	#4	10'-3"	
w30(E)	80	#5	45'-6"	
Concrete Superstructure			Cu. Yd.	7.8
Concrete Superstructure (Approach Slab)			Cu. Yd.	127.4
Concrete Structures			Cu. Yd.	28.4
Reinforcement Bars, Epoxy Coated			Pound	51,890

MODEL: Default
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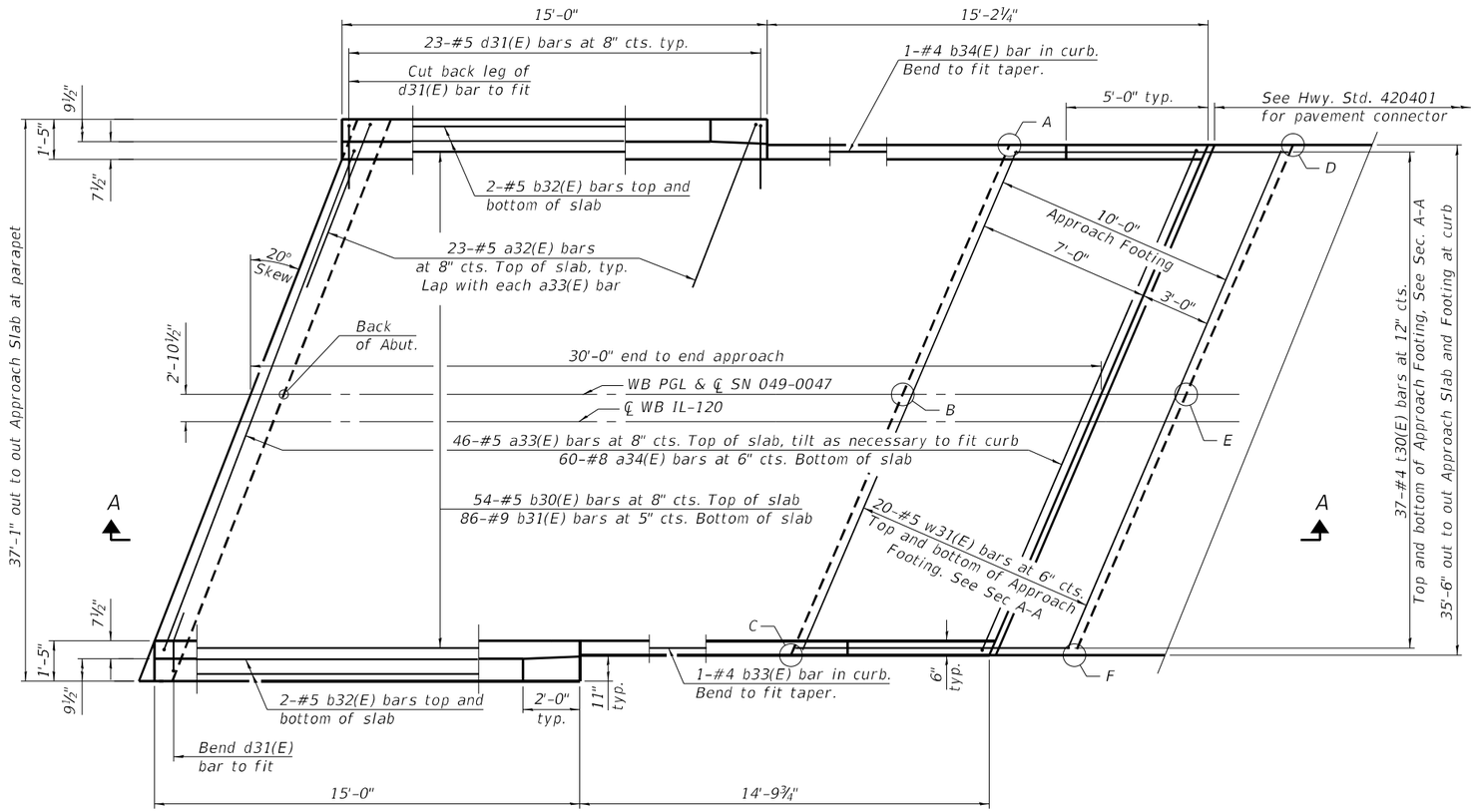
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PLOT SCALE = | CHECKED - AJN | REVISED -
PLOT DATE = 06/21/2023 | DRAWN - AT/PS | REVISED -
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DEPARTMENT OF TRANSPORTATION

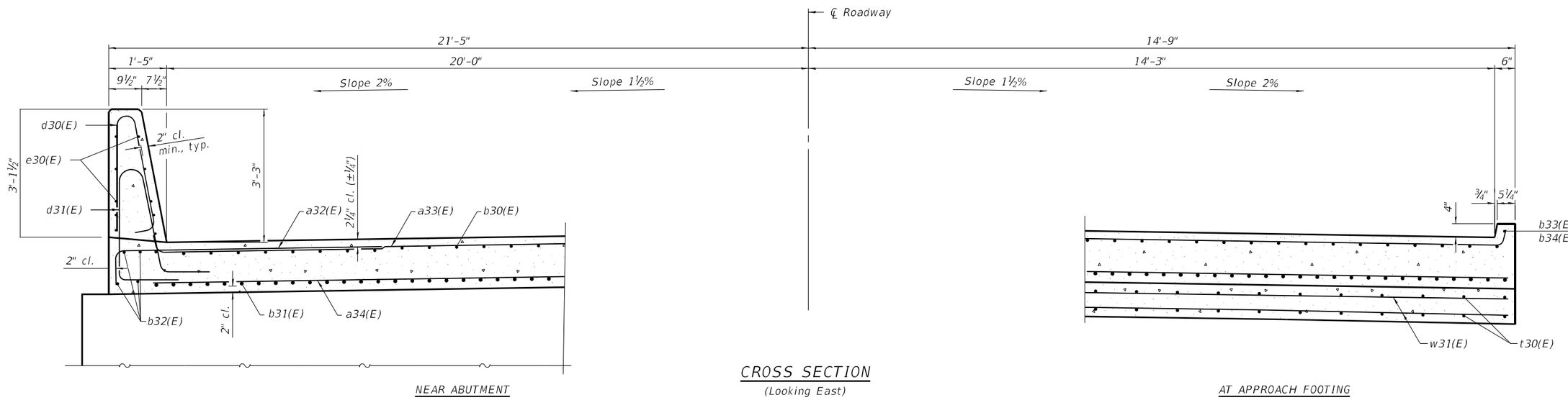
APPROACH SLAB DETAILS - EASTBOUND STRUCTURE
STRUCTURE NO. 049-0046 (EB) & 049-0047 (WB)
SHEET 16 OF 36 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
333	2021-071-BDR	LAKE	131	91
		CONTRACT NO. 62P09		
		ILLINOIS	FED. AID PROJECT	



PLAN

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



NEAR ABUTMENT

CROSS SECTION

(Looking East)

AT APPROACH FOOTING

TOP AND BOTTOM ELEVATIONS FOR APPROACH FOOTING

West Approach			East Approach		
Point/ Location	Top	Bottom	Point/ Location	Top	Bottom
A - NE	665.66	664.83	A - NW	663.40	662.57
B - E	665.83	665.00	B - W	663.76	662.92
C - SE	665.49	664.65	C - SW	663.59	662.76
D - NW	665.74	664.91	D - NE	663.30	662.47
E - W	665.92	665.09	E - E	663.66	662.82
F - SW	665.57	664.74	F - SE	663.49	662.66

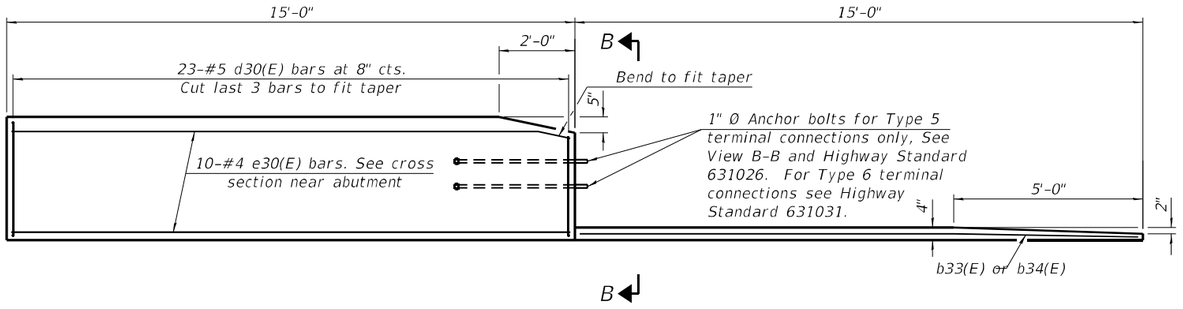
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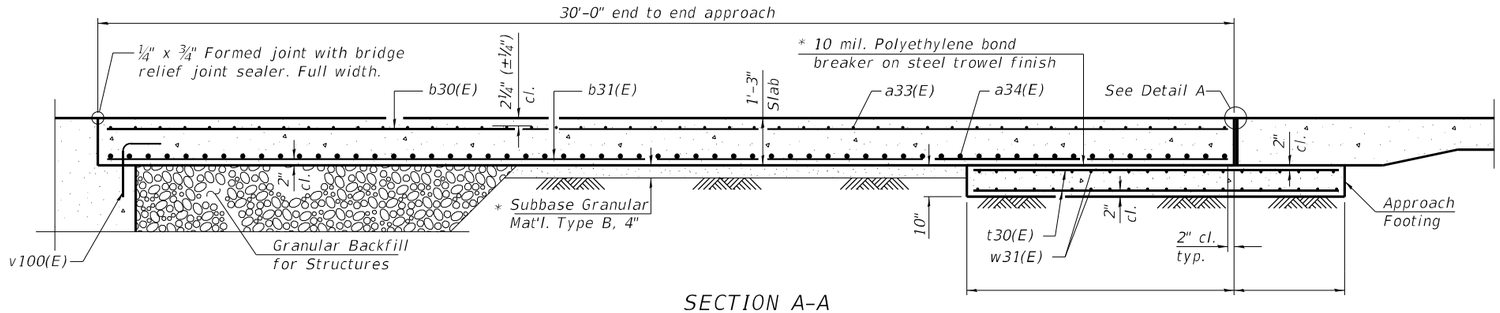
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USER NAME = pskolba	DESIGNED - AT	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	APPROACH SLAB - WESTBOUND STRUCTURE STRUCTURE NO. 049-0046 (EB) & 049-0047 (WB)	
	CHECKED - AJN	REVISED -			
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PLOT DATE = 06/21/2023	CHECKED - AJN	REVISED -		SHEET 17 OF 36 SHEETS	

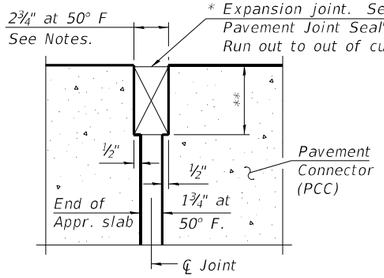
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
333	2021-071-BDR	LAKE	131	92
		CONTRACT NO. 62P09		
	ILLINOIS FED. AID PROJECT			



INSIDE ELEVATION OF PARAPET AND CURB



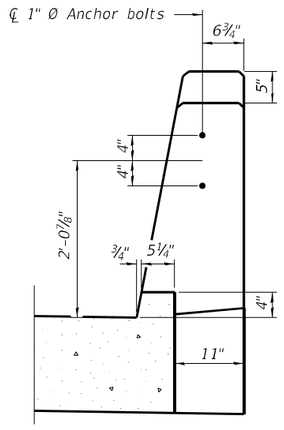
SECTION A-A



DETAIL A
(at Rt. ∠'s)

* Cost included with Concrete Superstructure (Approach Slab).

** Per manufacturer recommendations



VIEW B-B

Notes:

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

Parapet concrete shall be paid for as Concrete Superstructure.

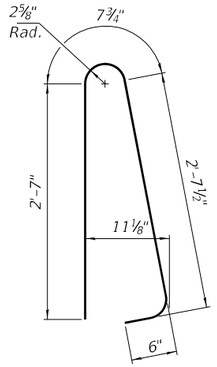
Approach slab shall be paid for as Concrete Superstructure (Approach Slab).

Approach footing concrete shall be paid for as Concrete Structures.

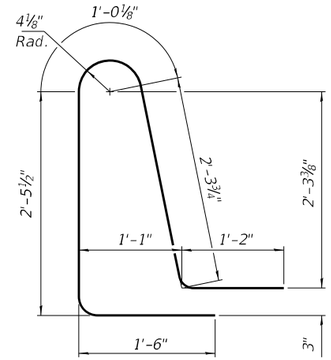
The approach footing maximum applied service bearing pressure (Qmax) = 2.0 ksf.

Cost of excavation for approach footing included with Concrete Structures.

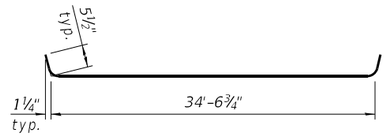
For Granular Backfill for Structures and drainage treatment details, see sheet SD-02 of SD-36.



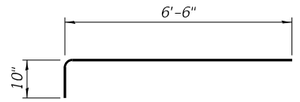
BAR d30(E)



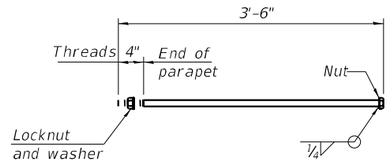
BAR d31(E)



BAR a33(E)



BAR a32(E)



*1" Ø ANCHOR BOLT
(Anchor bolt assemblies shall be galvanized according to Article 1006.09 of the Standard Specifications)

TWO APPROACHES BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a33(E)	92	#5	35'-5"	
a34(E)	120	#8	34'-9"	
a32(E)	92	#5	7'-4"	
b30(E)	108	#5	29'-8"	
b31(E)	172	#9	29'-8"	
b32(E)	16	#5	14'-8"	
b33(E)	2	#4	14'-5"	
b34(E)	2	#4	14'-10"	
d30(E)	92	#5	6'-5"	
d31(E)	92	#5	8'-6"	
e30(E)	40	#4	14'-8"	
t30(E)	148	#4	10'-3"	
w31(E)	80	#5	34'-9"	
Concrete Superstructure			Cu. Yd.	7.8
Concrete Superstructure (Approach Slab)			Cu. Yd.	97.6
Concrete Structures			Cu. Yd.	23.2
Reinforcement Bars, Epoxy Coated			Pound	41,950

MODEL: Default
FILE NAME: P:\040058 - IDOT\040058-01-002 (ENG) - PTB 195-016 Phase II Var Var\Engineering\WO 28 - 62P09 IL-120 at DPR\500 Drawings\502 CADD Sheets\049004762P09_Approach Slab 2.dgn
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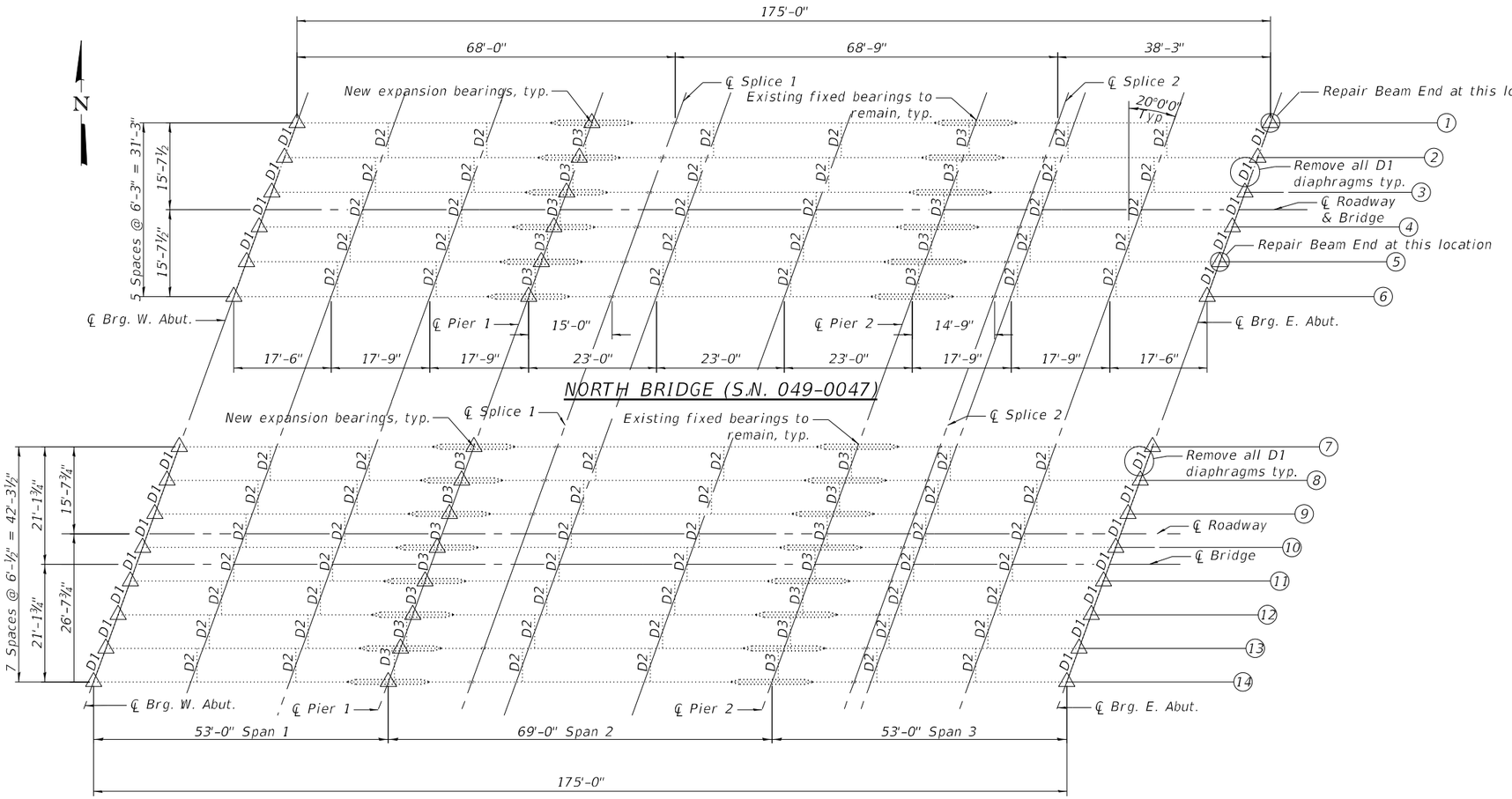
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

APPROACH SLAB DETAILS - WESTBOUND STRUCTURE
STRUCTURE NO. 049-0046 (EB) & 049-0047 (WB)
SHEET 18 OF 36 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
333	2021-071-BDR	LAKE	131	93
		CONTRACT NO. 62P09		
		ILLINOIS	FED. AID PROJECT	



JACK AND REMOVE EXISTING BEARINGS PROCEDURE

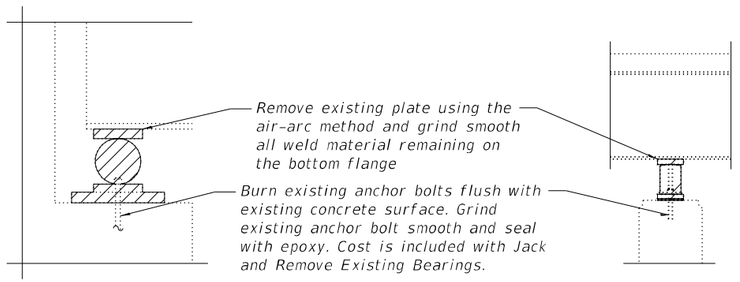
1. Jacking of existing beams shall be done after deck is removed.
2. The Contractor shall submit for approval by the Engineer details and calculations prepared and sealed by an Illinois Licensed Structural Engineer for jacking existing beams and removing and installing bearings prior to commencing any related work. Below shows the minimum jack capacity for each bearing.

LOCATION	BEAM DL REACTION (k)	MIN. JACKING CAPACITY (k)
W. Abut. & E. Abut.	35.4	70.8
Pier 1 & Pier 2	81.6	163.2

3. There shall be at least one jack per bearing and the jack shall be placed directly under the girder. The jacking operation shall follow procedures outlined in the special provision "Jack and Remove Existing Bearings". The girders shall be blocked in position until after the completion of the installation of new bearings.
4. The new bearings and steel extensions shall be in place and the jacks shall be removed before the new concrete deck is poured.
5. Prior to ordering any material, the Contractor shall verify in the field all bearing height and shim thickness dimensions.
6. All D1 diaphragms shall be removed before new concrete diaphragm is installed.

STEEL DIMENSIONS

Diaphragm D1 - W12x40
Diaphragm D2, D3 - W16x36



EXISTING BEARING REMOVAL AT ABUTMENTS

EXISTING BEARING REMOVAL AT PIER 1

LEGEND

△ - New Bearings
◯ - Beam End Repair

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FRAMING PLAN AND STEEL REPAIRS
STRUCTURE NO. 049-0046 (EB) & 049-0047 (WB)
SHEET 19 OF 36 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
333	2021-071-BDR	LAKE	131	94
		CONTRACT NO. 62P09		
	ILLINOIS	FED. AID PROJECT		

INTERIOR GIRDER MOMENT TABLE - EB				
		0.4 Sp. 1 or 0.6 Sp. 3	Pier	0.5 Sp. 2
Is	(in^4)	6,608	9,572	9,572
Ic(n)	(in^4)	18,839	–	18,839
Ic(3n)	(in^4)	13,808	–	13,808
Ss	(in^3)	400	562	400
Sc(n)	(in^3)	610	–	610
Sc(3n)	(in^3)	550	–	550
Z	(in^3)	–	637	–
w_D	(k/')	0.81	0.81	0.81
M_D	('k)	152	307	177
s_D	(k/')	0.39	0.39	0.39
M_{sD}	('k)	88	114	122
M_L	('k)	320	187	387
MIM	('k)	90	50	100
$\frac{5}{3}$ [M_L + I]	('k)	685	396	813
Ma	('k)	1,201	1,062	1,446
* Mu	('k)	2,422	1,664	2,400
fs w_D non-comp	(ksi)	4.55	6.56	5.31
fs w_D (comp)	(ksi)	1.91	2.42	2.65
fs $\frac{5}{3}$ [M_L + M_I]	(ksi)	13.47	8.46	16.00
fs (Overload)	(ksi)	19.93	17.45	23.96
** fs (Total)	(ksi)	25.91	22.68	31.15
VR	(k)	32.39	–	35.16

INTERIOR GIRDER MOMENT TABLE - WB				
		0.4 Sp. 1 or 0.6 Sp. 3	Pier	0.5 Sp. 2
Is	(in^4)	6,608	9,572	9,572
Ic(n)	(in^4)	18,987	–	18,987
Ic(3n)	(in^4)	13,958	–	13,958
Ss	(in^3)	400	562	400
Sc(n)	(in^3)	611	–	611
Sc(3n)	(in^3)	552	–	552
Z	(in^3)	–	637	–
w_D	(k/')	0.84	0.84	0.84
M_D	('k)	156	315	182
s_D	(k/')	0.46	0.46	0.46
M_{sD}	('k)	103	132	143
M_L	('k)	331	193	401
MIM	('k)	93	52	104
$\frac{5}{3}$ [M_L + I]	('k)	708	409	843
Ma	('k)	1,257	1,113	1,519
* Mu	('k)	2,422	1,664	2,400
fs w_D non-comp	(ksi)	4.67	6.73	5.45
fs w_D (comp)	(ksi)	2.24	2.82	3.11
fs $\frac{5}{3}$ [M_L + M_I]	(ksi)	13.91	8.73	16.56
fs (Overload)	(ksi)	20.81	18.29	25.13
** fs (Total)	(ksi)	27.06	23.77	32.67
VR	(k)	33.51	–	36.37

INTERIOR GIRDER REACTION TABLE - EB			
		Abut.	Pier
R_D	(k)	24.1	41.7
R_L	(k)	31.6	34.4
R_I	(k)	40.5	45.1
R_{Total}	(k)	96.1	121.2

INTERIOR GIRDER REACTION TABLE - WB			
		Abut.	Pier
R_D	(k)	25.9	44.8
R_L	(k)	32.7	35.6
R_I	(k)	41.8	45.1
R_{Total}	(k)	100.4	125.4

* 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 ($in.^3$).
w_D: Un-factored non-composite dead load (kips/ft.).
M_D: Un-factored moment due to non-composite dead load (kip-ft.).
s_D: Un-factored long-term composite (superimposed) dead load (kips/ft.)
M_{sD}: Un-factored moment due to long-term composite (superimposed) dead load (kip-ft.).
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_D + M_{sD} + $\frac{5}{3}$ (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_D + M_{sD} + $\frac{5}{3}$ (M_L + MI)
fs (Total): Sum of stresses as computed from the moments below on non-compact section (ksi).
1.3 [M_D + M_{sD} + $\frac{5}{3}$ (M_L + MI)]
VR: Maximum$_L$ + impact shear range within the composite portion of the span for stud shear connector design (kips).

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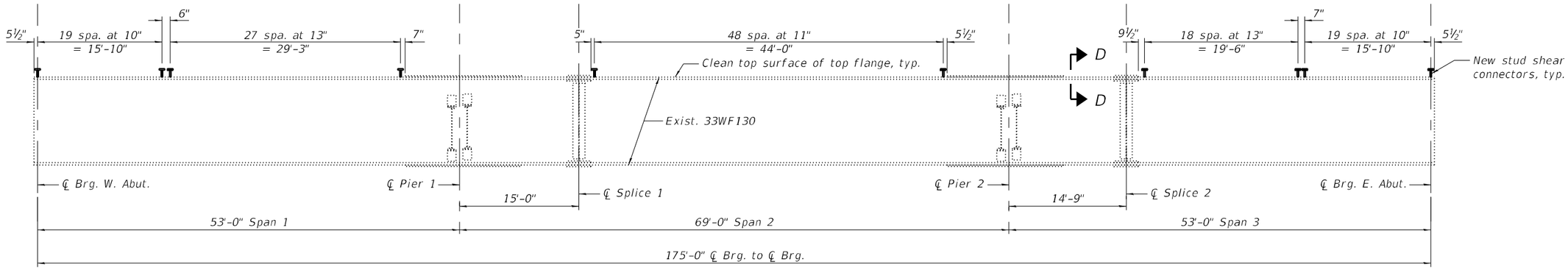
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

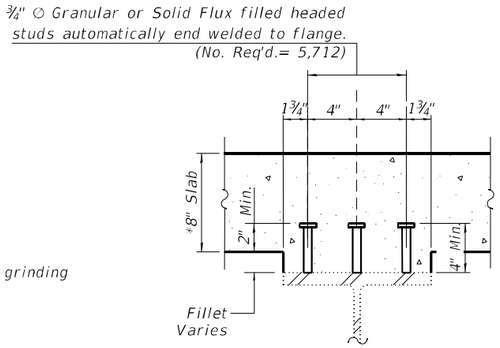
INTERIOR GIRDER MOMENTS AND REACTIONS
STRUCTURE NO. 049-0046 (EB) & 049-0047 (WB)
SHEET 20 OF 36 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
333	2021-071-BDR	LAKE	131	95
		CONTRACT NO. 62P09		
		ILLINOIS	FED. AID PROJECT	

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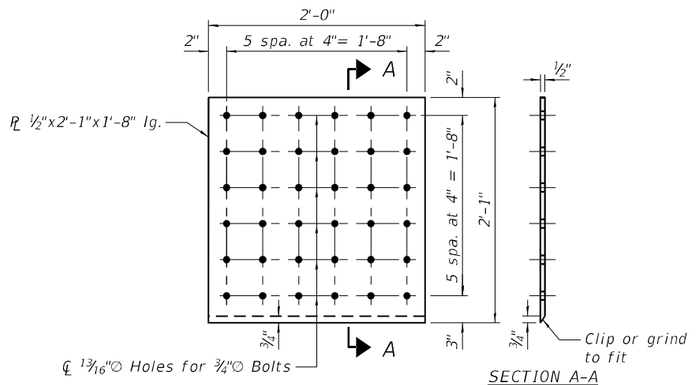


BEAM ELEVATION



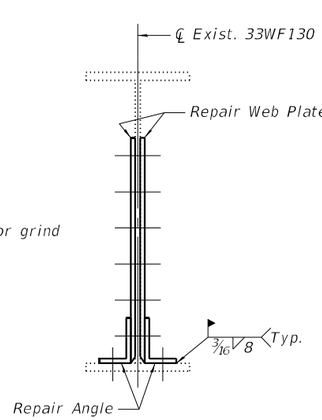
*After grinding

SECTION D-D

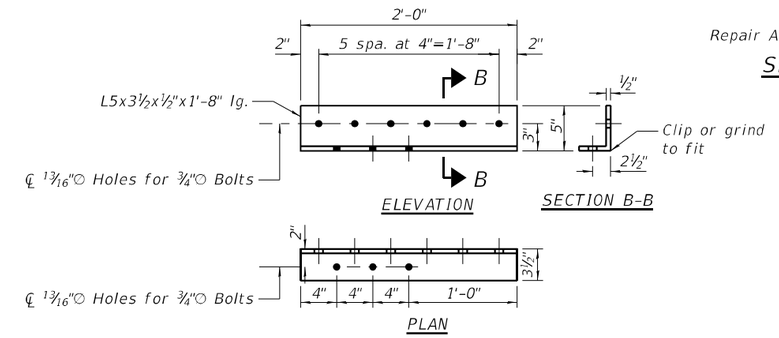


REPAIR WEB PLATE

SECTION A-A



SECTION C-C

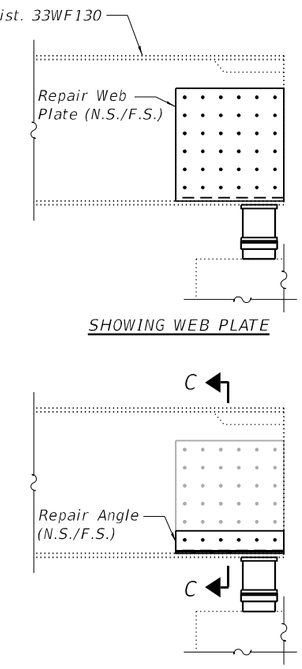


ELEVATION

SECTION B-B

PLAN

REPAIR ANGLE



SHOWING WEB PLATE

SHOWING ANGLE

BEAM END REPAIR

NOTE

Top face of the top flange shall be free of rust and debris before the installation of the shear stud connector. The contractor shall consult with the shear stud manufacturer for details related to the required surface preparation. See note #6 of General Notes on sheet SD-02.

BILL OF MATERIAL

ITEM	UNIT	TOTAL
Structural Steel Repair	POUND	600
Stud Shear Connectors	EACH	5712

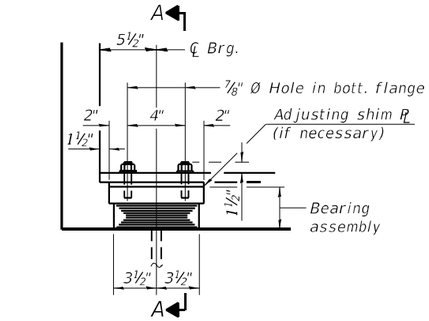
SD-21

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10 S. LaSalle Street, Suite 2700
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USER NAME = pskolba	DESIGNED - AT	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	STEEL REPAIR DETAILS STRUCTURE NO. 049-0046 (EB) & 049-0047 (WB)	
	CHECKED - AJN	REVISED -			
PLOT SCALE =	DRAWN - AT/PS	REVISED -			
PLOT DATE = 06/21/2023	CHECKED - AJN	REVISED -		SHEET 21 OF 36 SHEETS	

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
333	2021-071-BDR	LAKE	131	96
		CONTRACT NO. 62P09		
		ILLINOIS	FED. AID PROJECT	

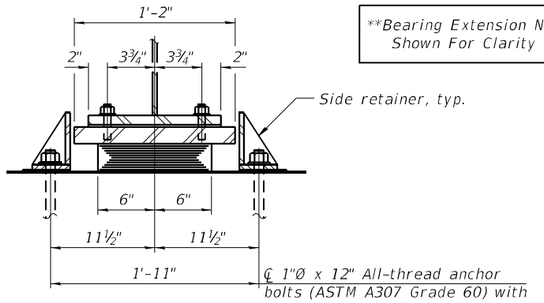
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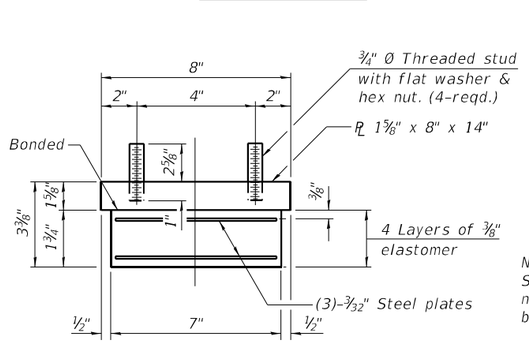
ELEVATION AT EAST ABUT.**
TYPE I ELASTOMERIC EXP. BRG.
AT EAST ABUTMENT

(No. Req'd.=8 for Eastbound Structure)

**Bearing Extension Not Shown For Clarity

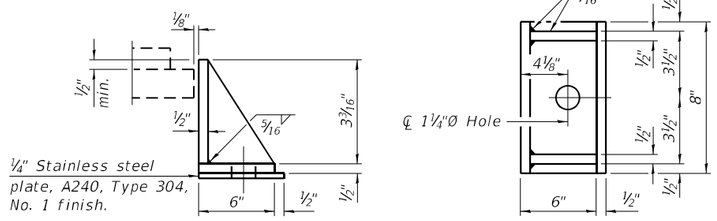


SECTION A-A**



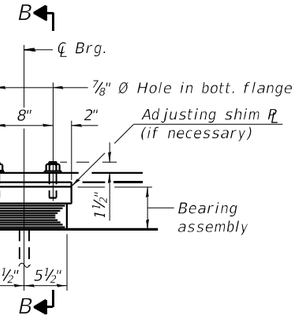
Note:
Shim plates shall not be placed under bearing assembly.

BEARING ASSEMBLY AT EAST ABUTMENT



SIDE RETAINER FOR BEARINGS AT EAST ABUTMENT

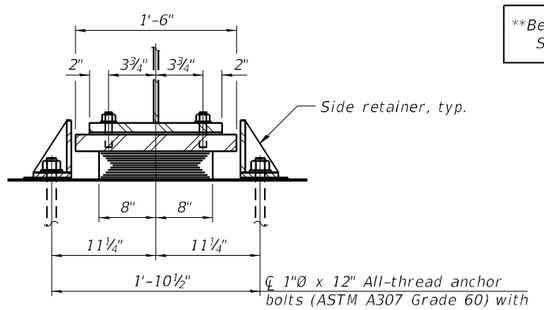
Equivalent rolled angle with stiffeners will be allowed in lieu of welded plates.



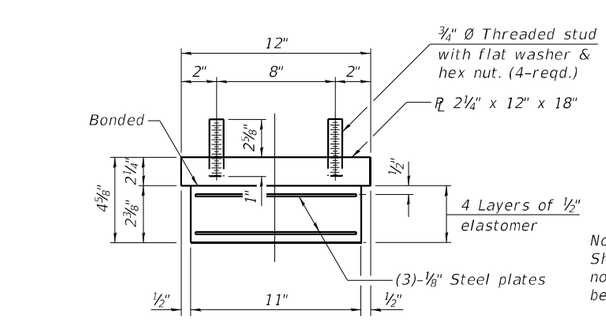
ELEVATION AT PIER 1**
TYPE I ELASTOMERIC EXP. BRG.
AT PIER 1

(No. Req'd.=8 for Eastbound Structure)

**Bearing Extension Not Shown For Clarity

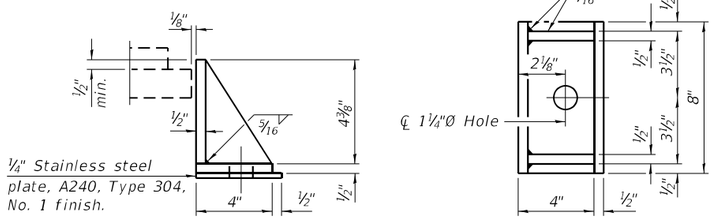


SECTION B-B**



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

BEARING ASSEMBLY AT PIER 1



SIDE RETAINER FOR BEARINGS AT PIER 1

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

STEEL EXTENSION HEIGHT "X"

	℄ Brg. Pier 1	℄ Brg. E. Abut.
Beam 7	10½"	8½"
Beam 8	10½"	8½"
Beam 9	10½"	8½"
Beam 10	10½"	8½"
Beam 11	10½"	8½"
Beam 12	10½"	8½"
Beam 13	10½"	8½"
Beam 14	10½"	8½"

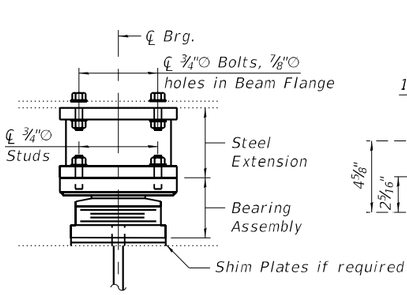
PIER 1 EXTENSION PLATES

	PL "A"*	PL "B"*	PL "C"	PL "D"*
Beam 7	1"x12"x0'-11½"	1"x11"x0'-8½"	1"x8½"x0'-8½"	1"x5"x0'-8½"
Beam 8	1"x12"x0'-11½"	1"x11"x0'-8½"	1"x8½"x0'-8½"	1"x5"x0'-8½"
Beam 9	1"x12"x0'-11½"	1"x11"x0'-8½"	1"x8½"x0'-8½"	1"x5"x0'-8½"
Beam 10	1"x12"x0'-11½"	1"x11"x0'-8½"	1"x8½"x0'-8½"	1"x5"x0'-8½"
Beam 11	1"x12"x0'-11½"	1"x11"x0'-8½"	1"x8½"x0'-8½"	1"x5"x0'-8½"
Beam 12	1"x12"x0'-11½"	1"x11"x0'-8½"	1"x8½"x0'-8½"	1"x5"x0'-8½"
Beam 13	1"x12"x0'-11½"	1"x11"x0'-8½"	1"x8½"x0'-8½"	1"x5"x0'-8½"
Beam 14	1"x12"x0'-11½"	1"x11"x0'-8½"	1"x8½"x0'-8½"	1"x5"x0'-8½"

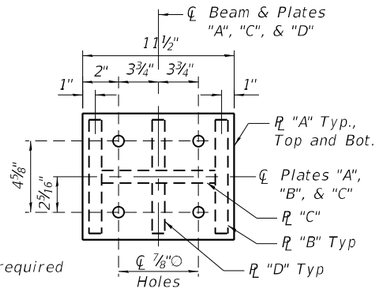
EAST ABUTMENT EXTENSION PLATES

* Two (2) Plates Per Extension

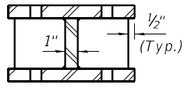
	PL "A"*	PL "B"*	PL "C"	PL "D"*
Beam 7	1"x8"x0'-11½"	1"x7"x0'-6½"	1"x8½"x0'-6½"	1"x3"x0'-6½"
Beam 8	1"x8"x0'-11½"	1"x7"x0'-6½"	1"x8½"x0'-6½"	1"x3"x0'-6½"
Beam 9	1"x8"x0'-11½"	1"x7"x0'-6½"	1"x8½"x0'-6½"	1"x3"x0'-6½"
Beam 10	1"x8"x0'-11½"	1"x7"x0'-6½"	1"x8½"x0'-6½"	1"x3"x0'-6½"
Beam 11	1"x8"x0'-11½"	1"x7"x0'-6½"	1"x8½"x0'-6½"	1"x3"x0'-6½"
Beam 12	1"x8"x0'-11½"	1"x7"x0'-6½"	1"x8½"x0'-6½"	1"x3"x0'-6½"
Beam 13	1"x8"x0'-11½"	1"x7"x0'-6½"	1"x8½"x0'-6½"	1"x3"x0'-6½"
Beam 14	1"x8"x0'-11½"	1"x7"x0'-6½"	1"x8½"x0'-6½"	1"x3"x0'-6½"



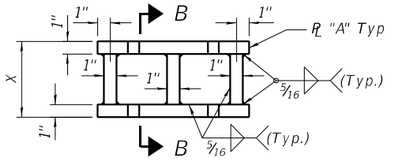
ELEVATION



PLAN - STEEL EXTENSION



SECTION B-B



ELEVATION - STEEL EXTENSION

Notes:

Side retainers and stainless steel plates shall be included in the cost of Elastomeric Bearing Assembly, Type I.

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

Use shim plates as needed. Cost is included in Furnishing & Erecting Structural Steel.

BILL OF MATERIAL

Item	Unit	Total
Elastomeric Bearing Assembly Type I	Each	16
Anchor Bolts, 1"	Each	32
Furnishing and Erecting Structural Steel	Pound	2480

SD-22

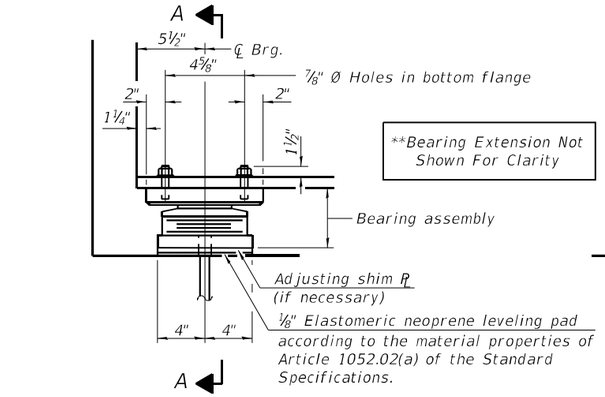
Bowman
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Chicago, Illinois 60606
312-419-0360
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USER NAME = atiemann	DESIGNED - AT	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	BEARING DETAILS I - EASTBOUND STRUCTURE STRUCTURE NO. 049-0046 (EB) & 049-0047 (WB)
	CHECKED - AJN	REVISED -		
PLOT SCALE =	DRAWN - AT/PS	REVISED -		SHEET 22 OF 36 SHEETS
PLOT DATE = 10/18/2023	CHECKED - AJN	REVISED -		

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
333	2021-071-BDR	LAKE	131	97
		CONTRACT NO. 62P09		
	ILLINOIS	FED. AID PROJECT		

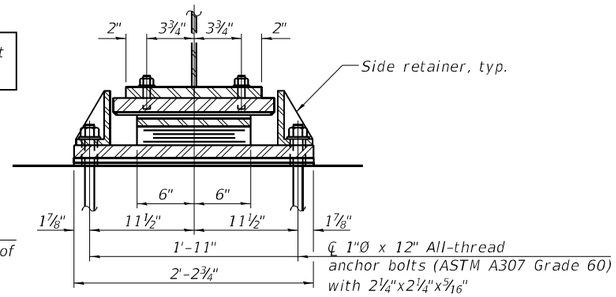
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10/18/2023 11:41:14 AM



**Bearing Extension Not Shown For Clarity

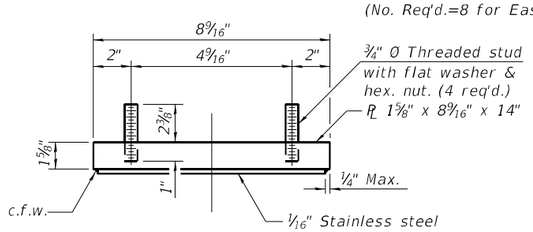
ELEVATION AT WEST ABUT.**



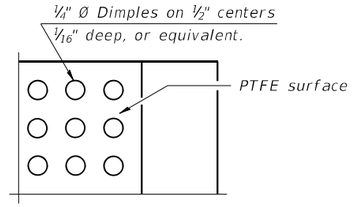
SECTION A-A**

TYPE II ELASTOMERIC EXP. BRG. AT WEST ABUTMENT

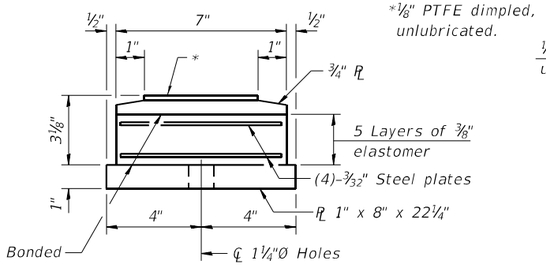
(No. Req'd.=8 for Eastbound Structure)



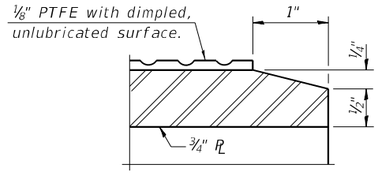
TOP BEARING ASSEMBLY



PLAN-PTFE SURFACE

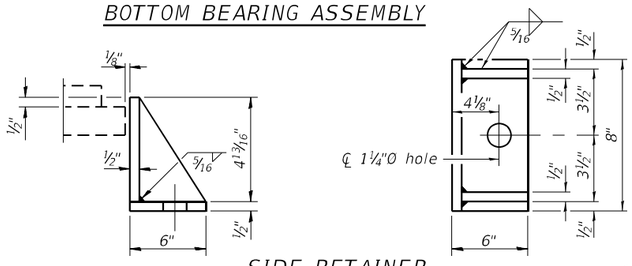


*⅛" PTFE dimpled, unlubricated.



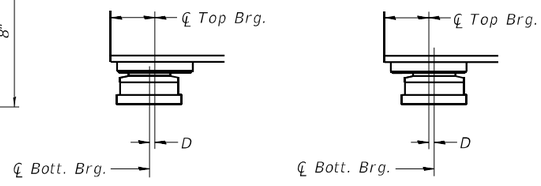
SECTION THRU PTFE

BOTTOM BEARING ASSEMBLY



SIDE RETAINER

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



BELOW 50°F. ABOVE 50°F.

D=⅛" per each 100' of expansion for every 15° temp. change from the normal temp. of 50°F.

EXPANSION BEARING ORIENTATION

The above diagrams are for informational purposes only to show the amount of expected offset "D" for the current temperature in the field.

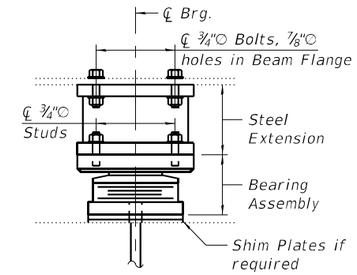
STEEL EXTENSION HEIGHT "X"

	℄ Brg. W. Abut
Beam 7	6⅛"
Beam 8	6⅛"
Beam 9	6⅛"
Beam 10	6⅛"
Beam 11	6⅛"
Beam 12	6⅛"
Beam 13	6⅛"
Beam 14	6⅛"

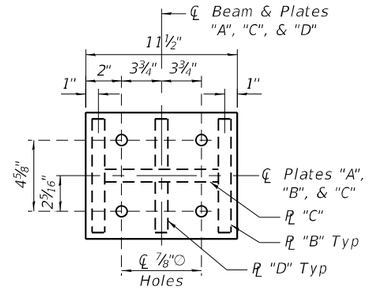
WEST ABUTMENT EXTENSION PLATES

	℞ "A"	℞ "B"	℞ "C"	℞ "D"
Beam 7	1"x8⅝"x0'-11½"	1"x7⅜"x0'-4⅛"	1"x8½"x0'-4⅛"	1"x3⅜16"x0'-4⅛"
Beam 8	1"x8⅝"x0'-11½"	1"x7⅜"x0'-4⅛"	1"x8½"x0'-4⅛"	1"x3⅜16"x0'-4⅛"
Beam 9	1"x8⅝"x0'-11½"	1"x7⅜"x0'-4⅛"	1"x8½"x0'-4⅛"	1"x3⅜16"x0'-4⅛"
Beam 10	1"x8⅝"x0'-11½"	1"x7⅜"x0'-4⅛"	1"x8½"x0'-4⅛"	1"x3⅜16"x0'-4⅛"
Beam 11	1"x8⅝"x0'-11½"	1"x7⅜"x0'-4⅛"	1"x8½"x0'-4⅛"	1"x3⅜16"x0'-4⅛"
Beam 12	1"x8⅝"x0'-11½"	1"x7⅜"x0'-4⅛"	1"x8½"x0'-4⅛"	1"x3⅜16"x0'-4⅛"
Beam 13	1"x8⅝"x0'-11½"	1"x7⅜"x0'-4⅛"	1"x8½"x0'-4⅛"	1"x3⅜16"x0'-4⅛"
Beam 14	1"x8⅝"x0'-11½"	1"x7⅜"x0'-4⅛"	1"x8½"x0'-4⅛"	1"x3⅜16"x0'-4⅛"

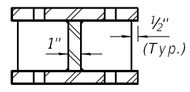
* Two (2) Plates Per Extension



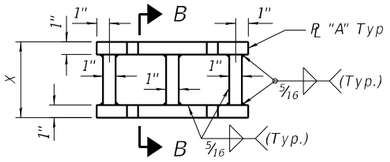
ELEVATION



PLAN STEEL EXTENSION



SECTION B-B



ELEVATION STEEL EXTENSION

Notes:

Side retainers and leveling pad required for the elastomeric bearing assembly shall be included in the cost of Elastomeric Bearing Assembly, Type II.

The ⅛" PTFE sheet shall be bonded directly to the top steel plate with a two-component, medium viscosity epoxy resin, conforming to the requirements of the Federal Specification MMM-A-134, Type I. The bond agent shall be applied on the full area of the contact surfaces.

Bonding of ⅛" PTFE sheet during vulcanizing process will be permitted provided the process and method of adjusting assembly height is approved by the Engineer.

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

Use shim plates as needed. Cost is included in Furnishing & Erecting Structural Steel.

BILL OF MATERIAL

Item	Unit	Total
Elastomeric Bearing Assembly Type II	Each	8
Anchor Bolts, 1¼"	Each	16
Furnishing and Erecting Structural Steel	Pound	810

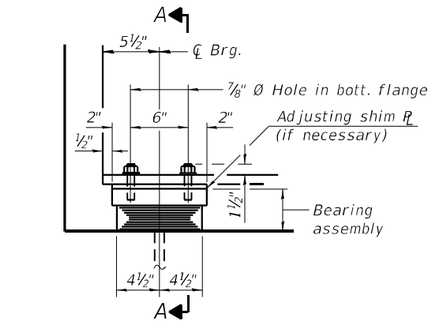
SD-23

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10 S. LaSalle Street, Suite 2710
Chicago, Illinois 60603
312-499-0360
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USER NAME = atiemann	DESIGNED - AT	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	BEARING DETAILS II - EASTBOUND STRUCTURE STRUCTURE NO. 049-0046 (EB) & 049-0047 (WB)	
	CHECKED - AJN	REVISED -			
PLOT SCALE =	DRAWN - AT/PS	REVISED -			
PLOT DATE = 10/18/2023	CHECKED - AJN	REVISED -		SHEET 23 OF 36 SHEETS	

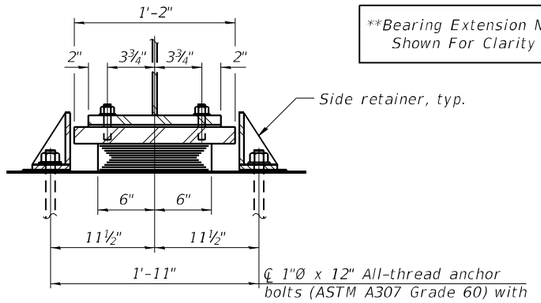
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
333	2021-071-BDR	LAKE	131	98
		CONTRACT NO. 62P09		
	ILLINOIS	FED. AID PROJECT		

MODEL: Default
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10/18/2023 11:41:14 AM



ELEVATION AT EAST ABUT.**
TYPE I ELASTOMERIC EXP. BRG.
AT EAST ABUTMENT

(No. Req'd.=6 for Westbound Structure)

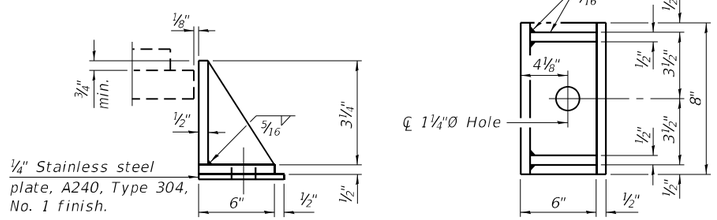


**Bearing Extension Not Shown For Clarity

SECTION A-A**

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

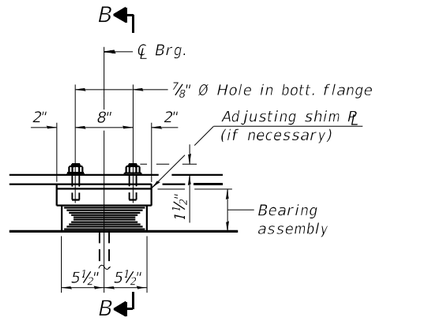
BEARING ASSEMBLY AT EAST ABUTMENT



¼" Stainless steel plate, A240, Type 304, No. 1 finish.

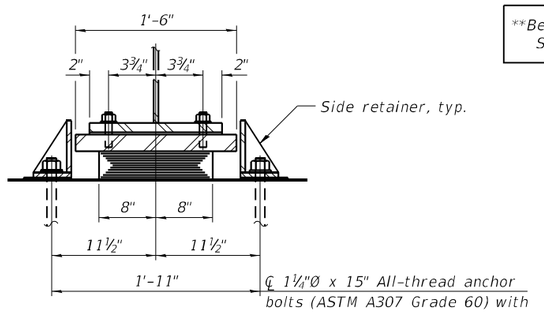
SIDE RETAINER FOR BEARINGS AT EAST ABUTMENT

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



ELEVATION AT PIER 1**
TYPE I ELASTOMERIC EXP. BRG.
AT PIER 1

(No. Req'd.=6 for Westbound Structure)

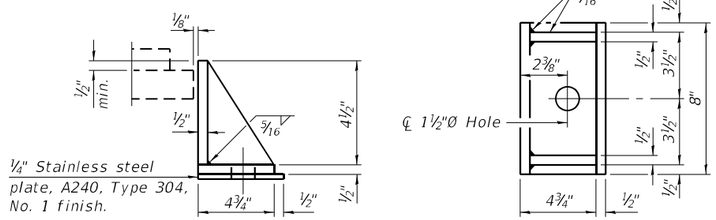


**Bearing Extension Not Shown For Clarity

SECTION B-B**

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

BEARING ASSEMBLY AT PIER 1



¼" Stainless steel plate, A240, Type 304, No. 1 finish.

SIDE RETAINER FOR BEARINGS AT PIER 1

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

STEEL EXTENSION HEIGHT "X"

	℄ Brg. Pier 1	℄ Brg. E. Abut.
Beam 1	10⅜"	8½"
Beam 2	10⅜"	8½"
Beam 3	10⅜"	8½"
Beam 4	10⅜"	8½"
Beam 5	10⅜"	8½"
Beam 6	10⅜"	8½"

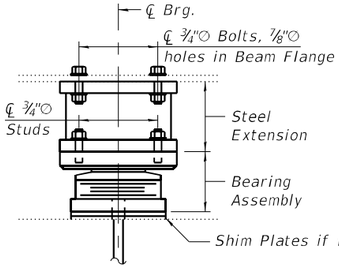
PIER 1 EXTENSION PLATES

	PL "A"*	PL "B"*	PL "C"	PL "D"*
Beam 1	1"x12"x0'-11½"	1"x11"x0'-8⅜"	1"x8½"x0'-8⅜"	1"x5"x0'-8⅜"
Beam 2	1"x12"x0'-11½"	1"x11"x0'-8⅜"	1"x8½"x0'-8⅜"	1"x5"x0'-8⅜"
Beam 3	1"x12"x0'-11½"	1"x11"x0'-8⅜"	1"x8½"x0'-8⅜"	1"x5"x0'-8⅜"
Beam 4	1"x12"x0'-11½"	1"x11"x0'-8⅜"	1"x8½"x0'-8⅜"	1"x5"x0'-8⅜"
Beam 5	1"x12"x0'-11½"	1"x11"x0'-8⅜"	1"x8½"x0'-8⅜"	1"x5"x0'-8⅜"
Beam 6	1"x12"x0'-11½"	1"x11"x0'-8⅜"	1"x8½"x0'-8⅜"	1"x5"x0'-8⅜"

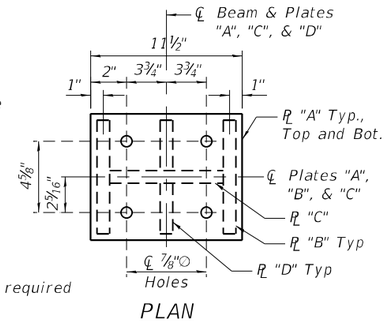
EAST ABUTMENT EXTENSION PLATES

* Two (2) Plates Per Extension

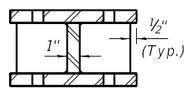
	PL "A"*	PL "B"*	PL "C"	PL "D"*
Beam 1	1"x10"x0'-11½"	1"x9"x0'-6½"	1"x8½"x0'-6½"	1"x4"x0'-6½"
Beam 2	1"x10"x0'-11½"	1"x9"x0'-6½"	1"x8½"x0'-6½"	1"x4"x0'-6½"
Beam 3	1"x10"x0'-11½"	1"x9"x0'-6½"	1"x8½"x0'-6½"	1"x4"x0'-6½"
Beam 4	1"x10"x0'-11½"	1"x9"x0'-6½"	1"x8½"x0'-6½"	1"x4"x0'-6½"
Beam 5	1"x10"x0'-11½"	1"x9"x0'-6½"	1"x8½"x0'-6½"	1"x4"x0'-6½"
Beam 6	1"x10"x0'-11½"	1"x9"x0'-6½"	1"x8½"x0'-6½"	1"x4"x0'-6½"



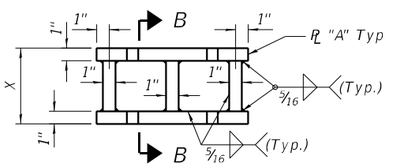
ELEVATION



PLAN
STEEL EXTENSION



SECTION B-B



ELEVATION
STEEL EXTENSION

Notes:

Side retainers and stainless steel plates shall be included in the cost of Elastomeric Bearing Assembly, Type I.

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

Use shim plates as needed. Cost is included in Furnishing & Erecting Structural Steel.

BILL OF MATERIAL

Item	Unit	Total
Elastomeric Bearing Assembly Type I	Each	12
Anchor Bolts, 1"	Each	24
Furnishing and Erecting Structural Steel	Pound	2000

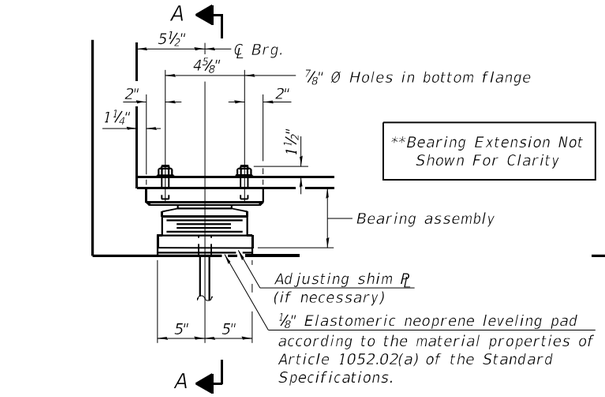
SD-24

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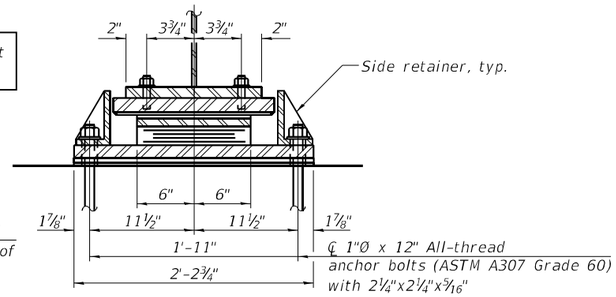
Bowman
10 S. LaSalle Street, Suite 2110
Chicago, Illinois 60605
312-494-0360
www.jbowman.com

USER NAME = atiemann	DESIGNED - AT	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	BEARING DETAILS I - WESTBOUND STRUCTURE STRUCTURE NO. 049-0046 (EB) & 049-0047 (WB) SHEET 24 OF 36 SHEETS
	CHECKED - AJN	REVISED -		
PLOT SCALE =	DRAWN - AT/PS	REVISED -		
PLOT DATE = 10/18/2023	CHECKED - AJN	REVISED -		

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
333	2021-071-BDR	LAKE	131	99
		CONTRACT NO. 62P09		
	ILLINOIS FED. AID PROJECT			



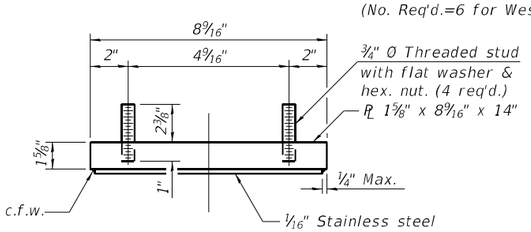
ELEVATION AT WEST ABUT.**



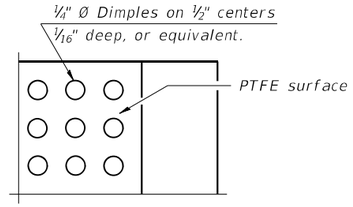
SECTION A-A**

TYPE II ELASTOMERIC EXP. BRG. AT WEST ABUTMENT

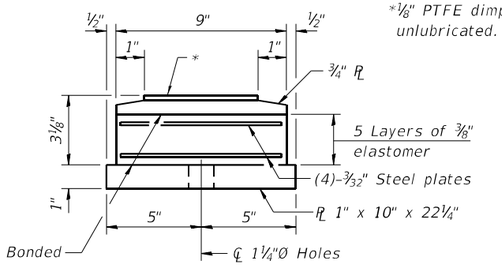
(No. Req'd.=6 for Westbound Structure)



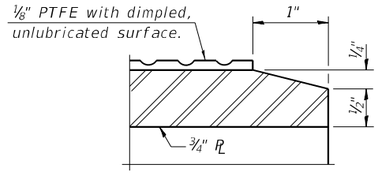
TOP BEARING ASSEMBLY



PLAN-PTFE SURFACE

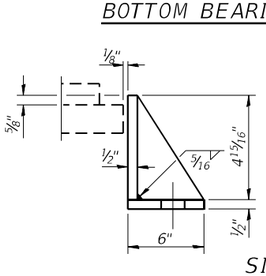


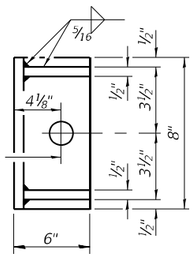
*⅛" PTFE dimpled, unlubricated.



SECTION THRU PTFE

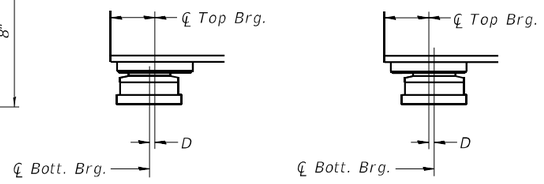
BOTTOM BEARING ASSEMBLY





SIDE RETAINER

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



BELOW 50°F. ABOVE 50°F.

D=⅛" per each 100' of expansion for every 15° temp. change from the normal temp. of 50°F.

EXPANSION BEARING ORIENTATION

The above diagrams are for informational purposes only to show the amount of expected offset "D" for the current temperature in the field.

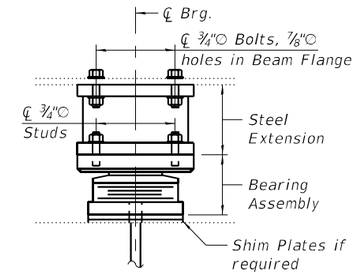
STEEL EXTENSION HEIGHT "X"

	℄ Brg. W. Abut
Beam 1	6⅛"
Beam 2	6⅛"
Beam 3	6⅛"
Beam 4	6⅛"
Beam 5	6⅛"
Beam 6	6⅛"

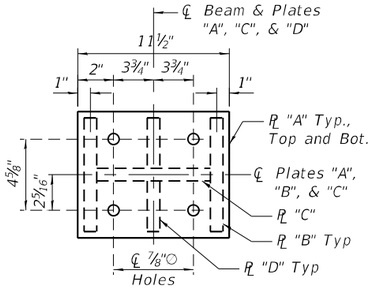
WEST ABUTMENT EXTENSION PLATES

	℞ "A"	℞ "B"	℞ "C"	℞ "D"
Beam 1	1"x8⅜"x0'-11½"	1"x7⅝"x0'-4⅛"	1"x8½"x0'-4⅛"	1"x3¾₁₆"x0'-4⅛"
Beam 2	1"x8⅜"x0'-11½"	1"x7⅝"x0'-4⅛"	1"x8½"x0'-4⅛"	1"x3⁵⁄₁₆"x0'-4⅛"
Beam 3	1"x8⅜"x0'-11½"	1"x7⅝"x0'-4⅛"	1"x8½"x0'-4⅛"	1"x3⁵⁄₁₆"x0'-4⅛"
Beam 4	1"x8⅜"x0'-11½"	1"x7⅝"x0'-4⅛"	1"x8½"x0'-4⅛"	1"x3¾₁₆"x0'-4⅛"
Beam 5	1"x8⅜"x0'-11½"	1"x7⅝"x0'-4⅛"	1"x8½"x0'-4⅛"	1"x3¾₁₆"x0'-4⅛"
Beam 6	1"x8⅜"x0'-11½"	1"x7⅝"x0'-4⅛"	1"x8½"x0'-4⅛"	1"x3¾₁₆"x0'-4⅛"

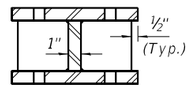
* Two (2) Plates Per Extension



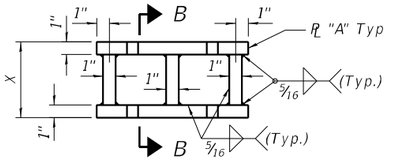
ELEVATION



PLAN
STEEL EXTENSION



SECTION B-B



ELEVATION
STEEL EXTENSION

Notes:

Side retainers and leveling pad required for the elastomeric bearing assembly shall be included in the cost of Elastomeric Bearing Assembly, Type II.

The ⅛" PTFE sheet shall be bonded directly to the top steel plate with a two-component, medium viscosity epoxy resin, conforming to the requirements of the Federal Specification MMM-A-134, Type I. The bond agent shall be applied on the full area of the contact surfaces.

Bonding of ⅛" PTFE sheet during vulcanizing process will be permitted provided the process and method of adjusting assembly height is approved by the Engineer.

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

Use shim plates as needed. Cost is included in Furnishing & Erecting Structural Steel.

BILL OF MATERIAL

Item	Unit	Total
Elastomeric Bearing Assembly Type II	Each	6
Anchor Bolts, 1¼"	Each	12
Furnishing and Erecting Structural Steel	Pound	620

SD-25

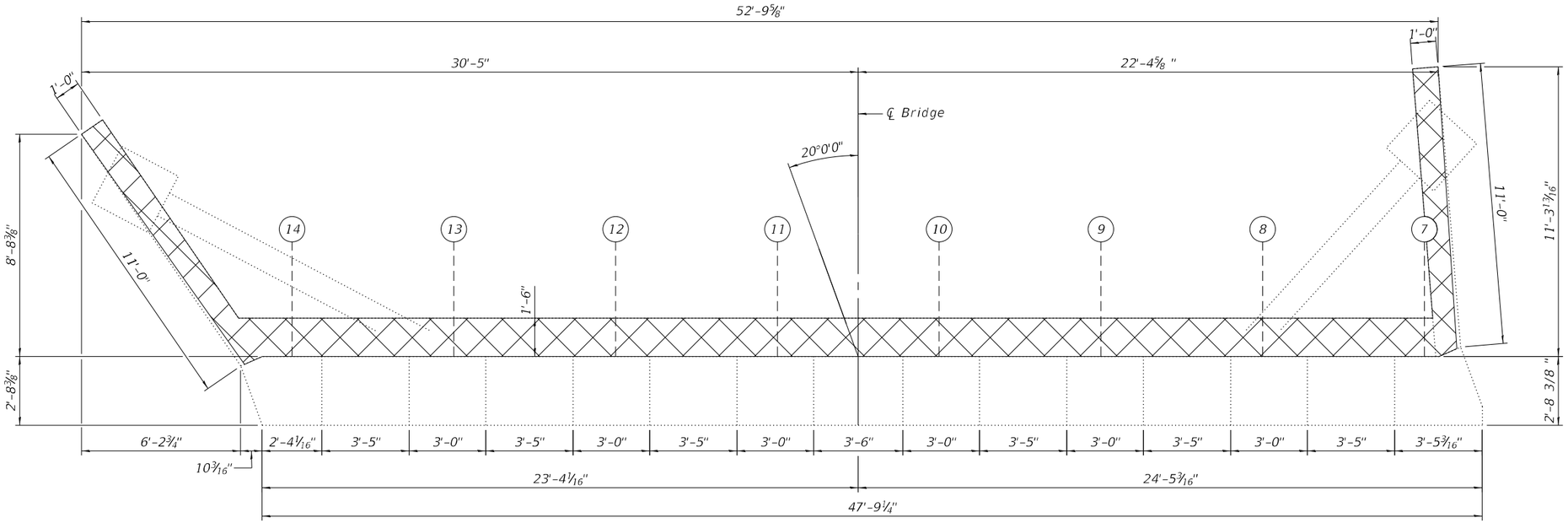
Bowman
10 S. LaSalle Street, Suite 2700
Chicago, Illinois 60603
312-499-0360
www.bowman.com

USER NAME = atiemann	DESIGNED - AT	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	BEARING DETAILS II - WESTBOUND STRUCTURE STRUCTURE NO. 049-0046 (EB) & 049-0047 (WB)	
	CHECKED - AJN	REVISED -			
PLOT SCALE =	DRAWN - AT/PS	REVISED -			
PLOT DATE = 10/18/2023	CHECKED - AJN	REVISED -		SHEET 25 OF 36 SHEETS	

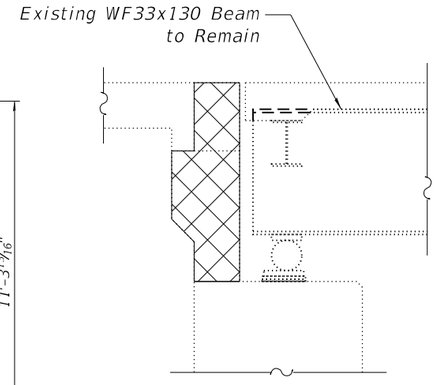
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
333	2021-071-BDR	LAKE	131	100
		CONTRACT NO.	62P09	
	ILLINOIS	FED. AID PROJECT		

MODEL: Default
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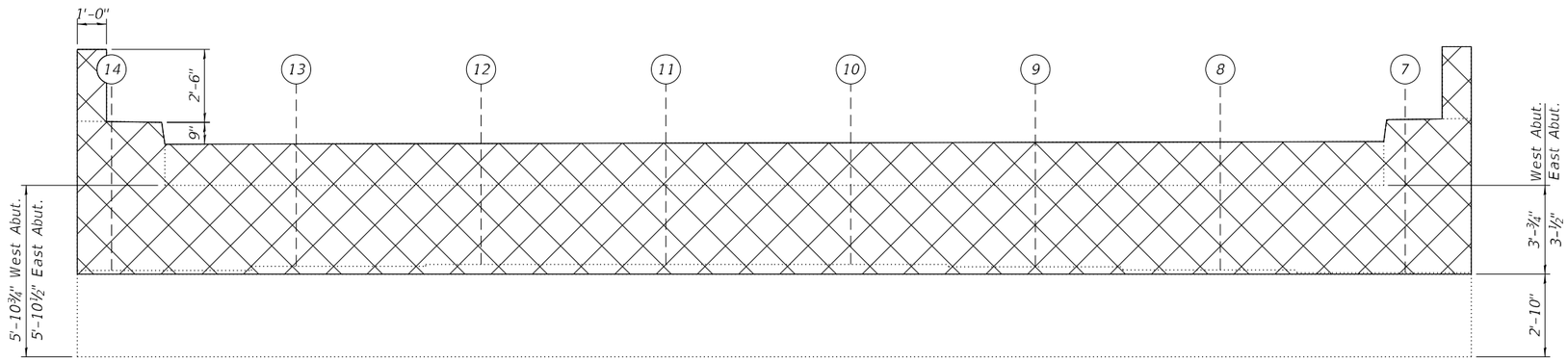


PLAN

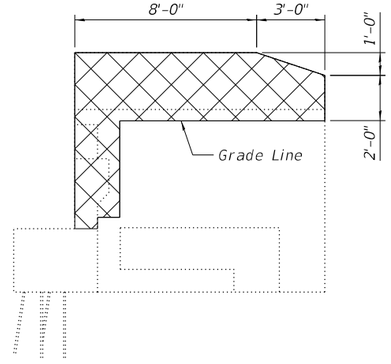


CONCRETE REMOVAL AT ABUTMENTS

(Dim. measured at right ∠)



FRONT ELEVATION



CONCRETE REMOVAL AT WING WALLS

(Dim. measured at right ∠)

LEGEND

- Concrete Removal

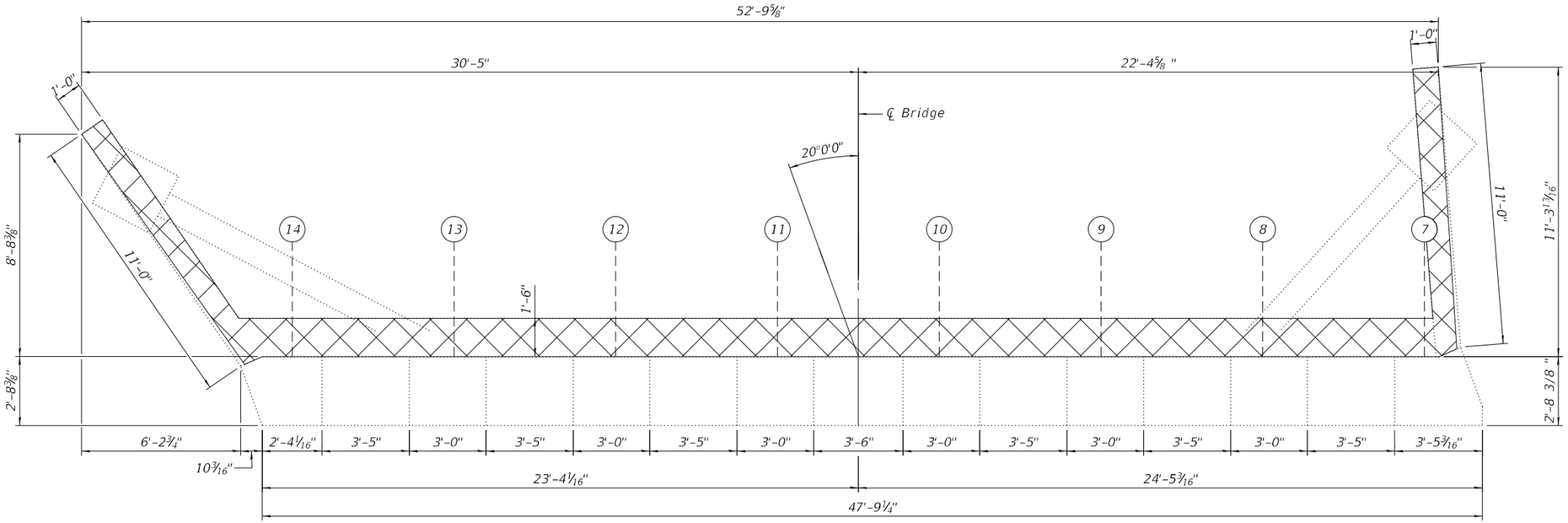
SD-26

Bowman 10 S. LaSalle Street, Suite 2100 Chicago, Illinois 60606 312-641-0580 www.bowmanae.com	USER NAME = pskolba	DESIGNED - AT	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EAST ABUTMENT REMOVAL DETAILS - EASTBOUND STRUCTURE STRUCTURE NO. 049-0046 (EB) & 049-0047 (WB)
		CHECKED - AJN	REVISED -		
	PLOT SCALE =	DRAWN - AT/PS	REVISED -		
	PLOT DATE = 06/21/2023	CHECKED - AJN	REVISED -		SHEET 26 OF 36 SHEETS

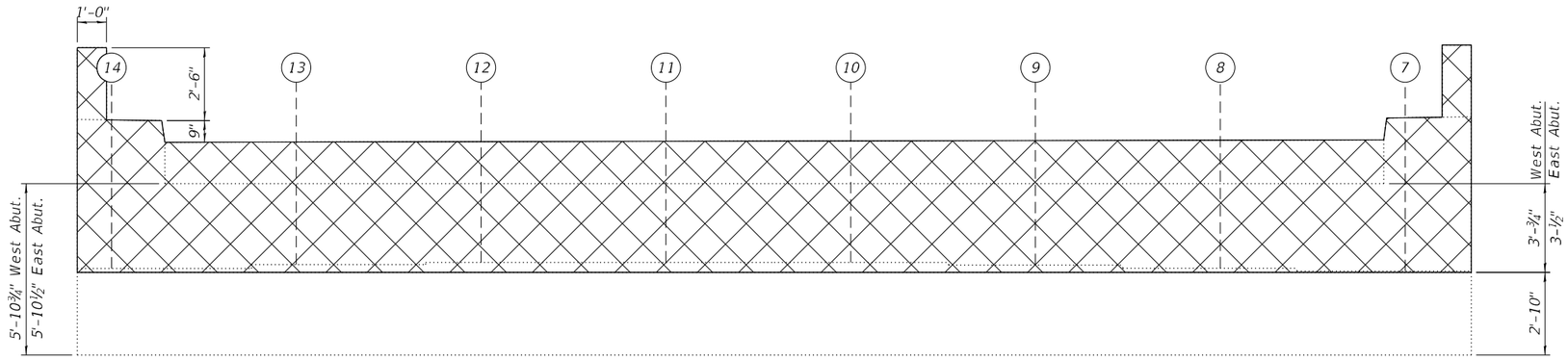
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
333	2021-071-BDR	LAKE	131	101
		CONTRACT NO. 62P09		
		ILLINOIS	FED. AID PROJECT	

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06/21/2023 4:43:42 PM



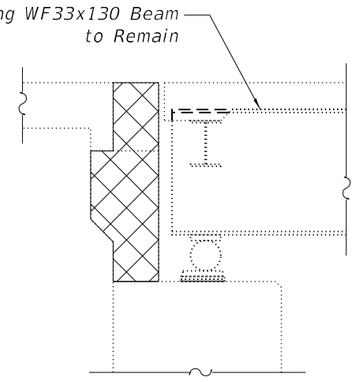
PLAN



FRONT ELEVATION

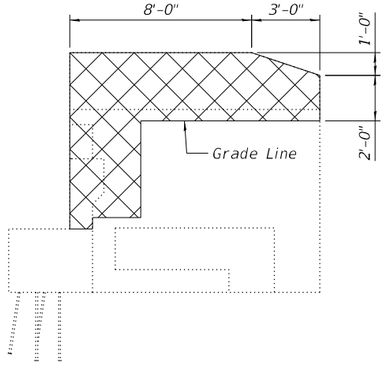
LEGEND

▨ – Concrete Removal



CONCRETE REMOVAL AT ABUTMENTS

(Dim. measured at right ∠)



CONCRETE REMOVAL AT WING WALLS

(Dim. measured at right ∠)

BILL OF MATERIAL

ITEM	UNIT	TOTAL
CONCRETE REMOVAL	CU YD	24.3

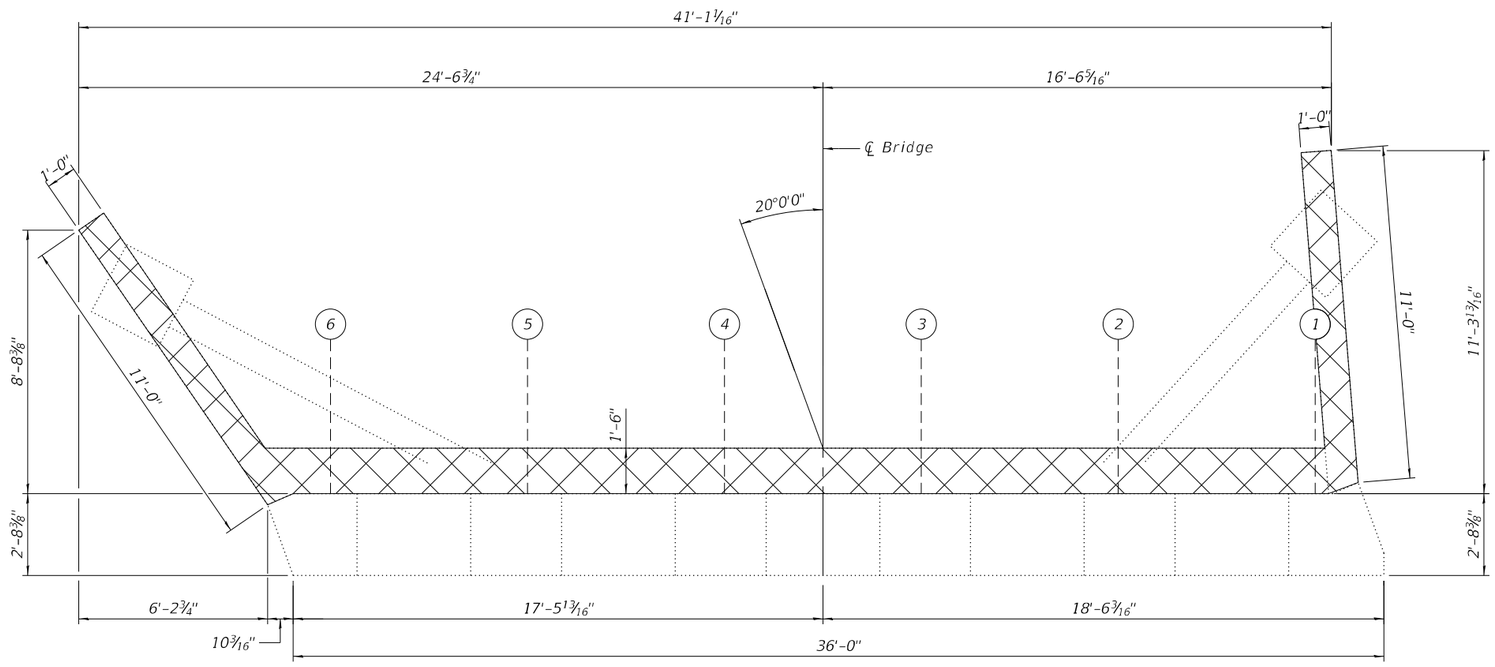
SD-27

Bowman
10 S. LaSalle Street, Suite 2100
Chicago, Illinois 60606
312-346-0360
www.bowman.com

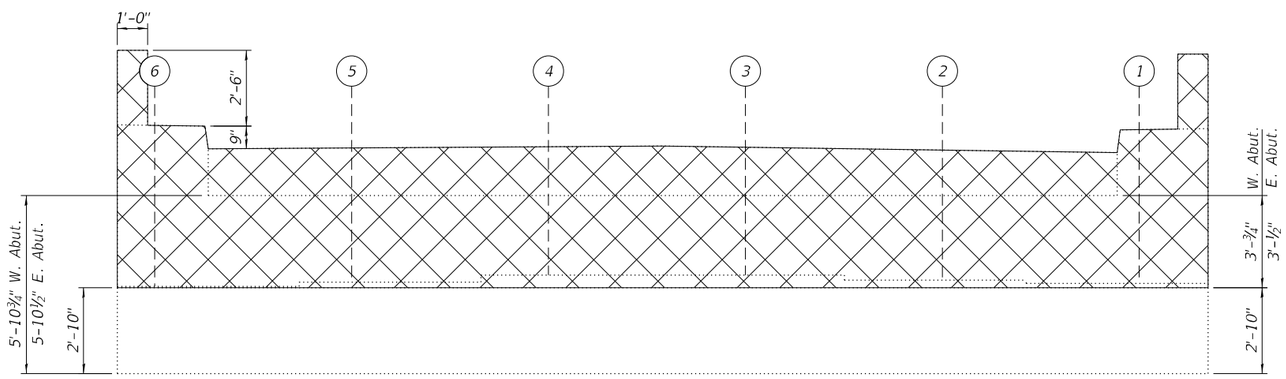
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	CHECKED - AJN	REVISED -			
PLOT SCALE =	DRAWN - AT/PS	REVISED -			
PLOT DATE = 06/21/2023	CHECKED - AJN	REVISED -		SHEET 27 OF 36 SHEETS	

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
333	2021-071-BDR	LAKE	131	102
		CONTRACT NO. 62P09		
		ILLINOIS	FED. AID PROJECT	

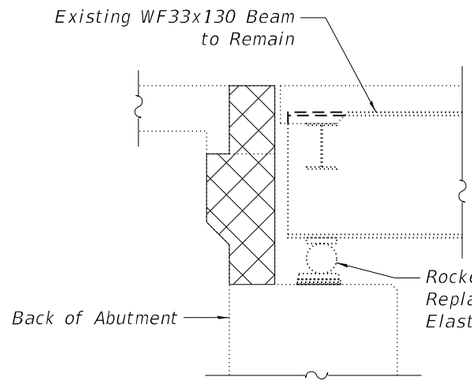
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PLAN

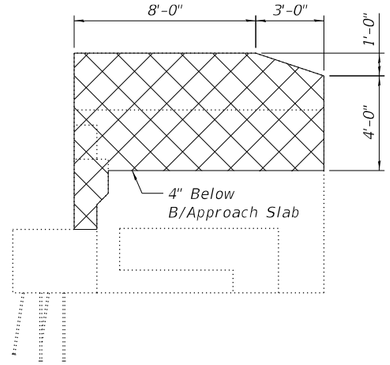


FRONT ELEVATION



CONCRETE REMOVAL AT ABUTMENTS

(Dim. measured at right ∠)



CONCRETE REMOVAL AT WING WALLS

(Dim. measured at right ∠)

LEGEND

- Concrete Removal

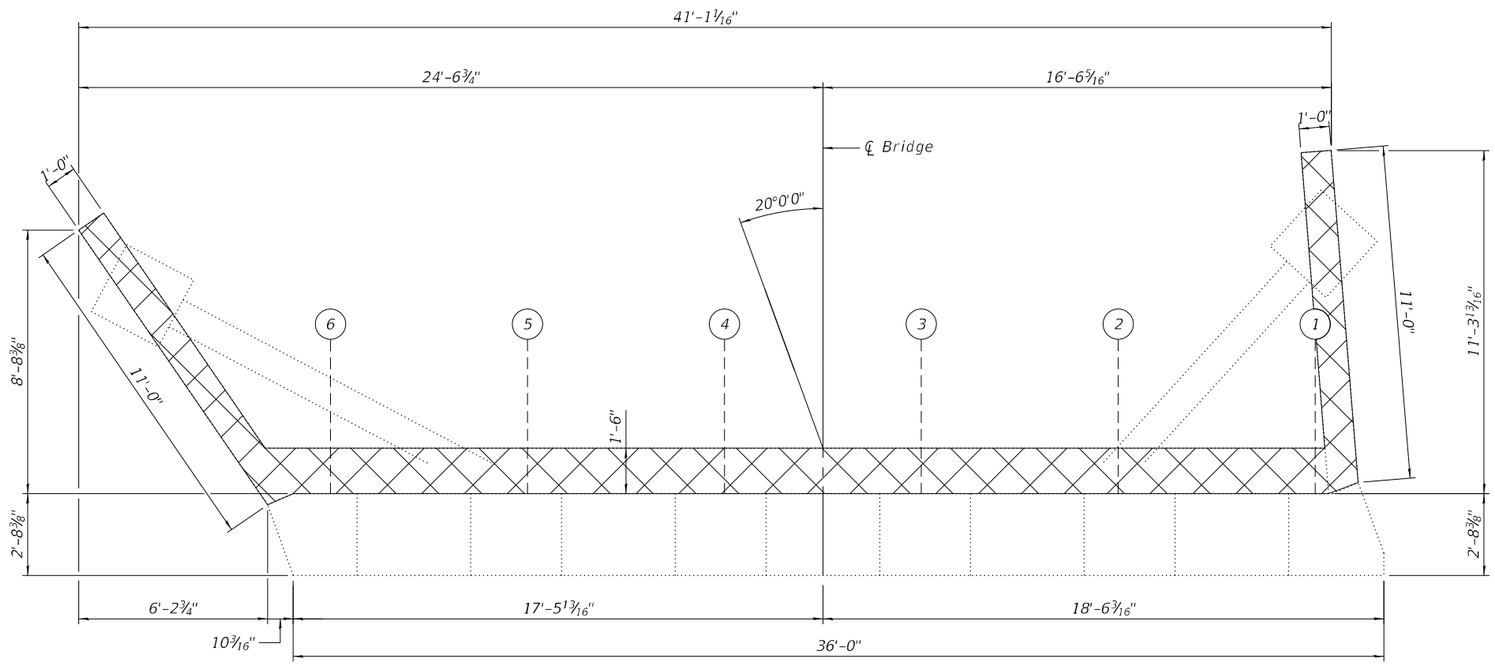
SD-28

Bowman 10 S. LaSalle Street, Suite 2100 Chicago, Illinois 60606 312-641-0580 www.bowman.com	USER NAME = pskolba	DESIGNED - AT	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EAST ABUTMENT REMOVAL DETAILS - WESTBOUND STRUCTURE STRUCTURE NO. 049-0046 (EB) & 049-0047 (WB) SHEET 24 OF 36 SHEETS
		CHECKED - AJN	REVISED -		
	PLOT SCALE =	DRAWN - AT/PS	REVISED -		
	PLOT DATE = 06/21/2023	CHECKED - AJN	REVISED -		

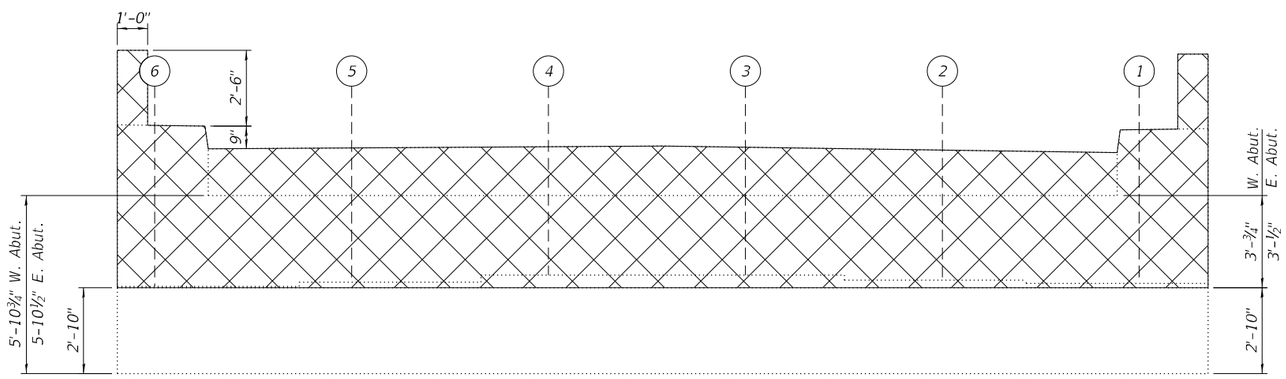
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
333	2021-071-BDR	LAKE	131	103
		CONTRACT NO. 62P09		
		ILLINOIS	FED. AID PROJECT	

MODEL: Default
FILE NAME: P:\040058 - IDOT\040058-01-002 (ENG) - PTB 195-016 Phase II Var Van\Engineering\WO 28 - 62P09 IL-120 at DPR\500 Drawings\502 CADD Sheets\049004762P00_Abut East Remove.dgn

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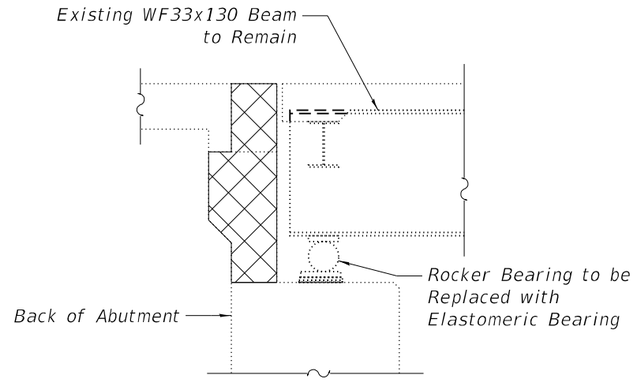
PLAN



FRONT ELEVATION

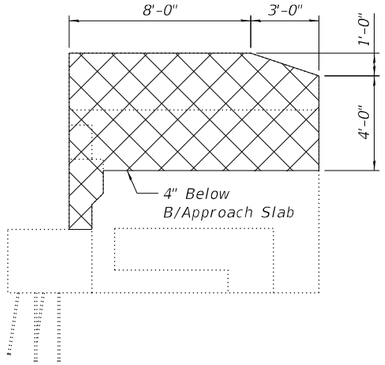
LEGEND

- Concrete Removal



CONCRETE REMOVAL AT ABUTMENTS

(Dim. measured at right ∠)



CONCRETE REMOVAL AT WING WALLS

(Dim. measured at right ∠)

BILL OF MATERIAL

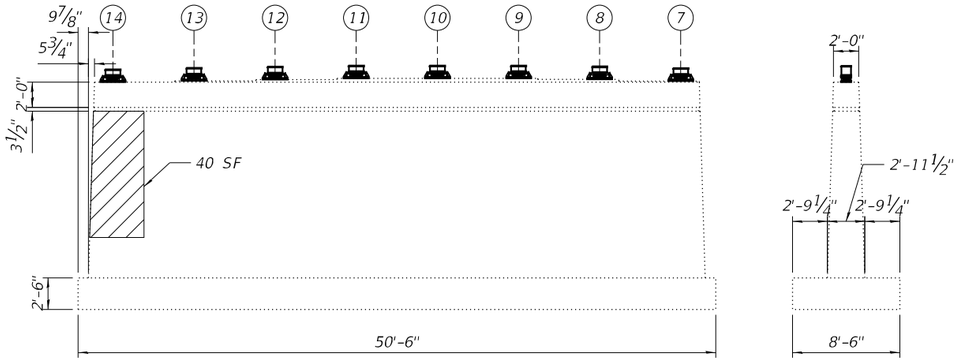
ITEM	UNIT	TOTAL
CONCRETE REMOVAL	CU YD	22.3

Bowman
10 S. LaSalle Street, Suite 2100
Chicago, Illinois 60606
312-641-3460
www.bowman.com

USER NAME = pskolba	DESIGNED - AT	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	WEST ABUTMENT REMOVAL DETAILS - WESTBOUND STRUCTURE STRUCTURE NO. 049-0046 (EB) & 049-0047 (WB) SHEET 29 OF 36 SHEETS
	CHECKED - AJN	REVISED -		
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PLOT DATE = 06/21/2023	CHECKED - AJN	REVISED -		

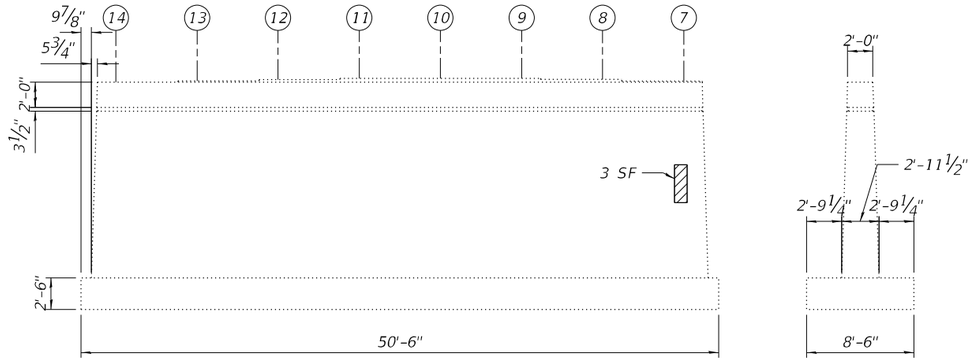
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
333	2021-071-BDR	LAKE	131	104
		CONTRACT NO. 62P09		
		ILLINOIS	FED. AID PROJECT	

MODEL: Default
FILE NAME: P:\040058 - IDOT\040058-01-002 (ENG) - PTB 195-016 Phase II Var Van\Engineering\WO 28 - 62P09 IL-120 at DPR\500 Drawings\502 CADD Sheets\049004762P09_Abut West Remove.dgn
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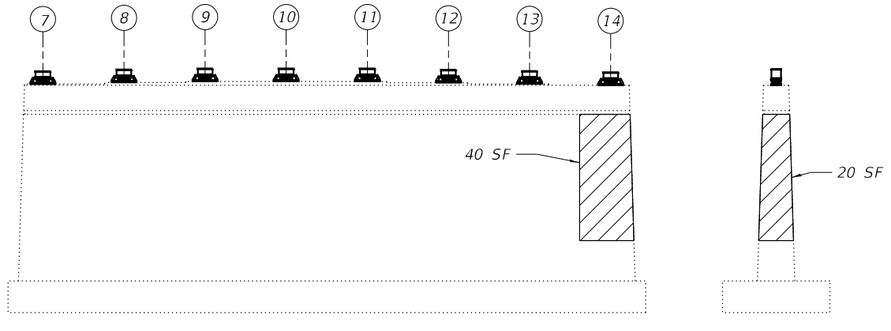
PIER 1 EAST ELEVATION
(Looking West)

PIER 1 NORTH END VIEW
(Looking South)



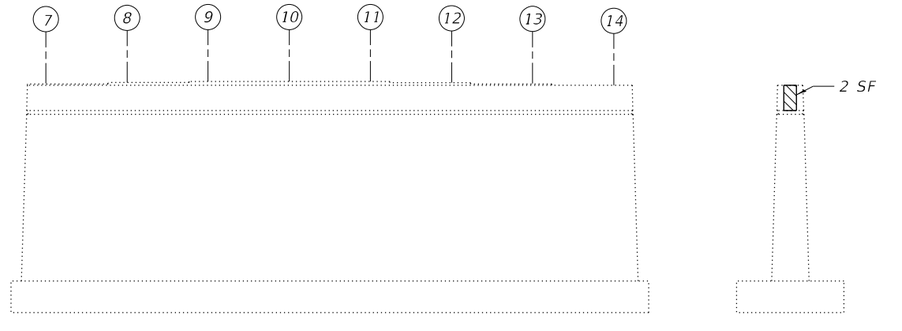
PIER 2 EAST ELEVATION
(Looking West)

PIER 2 NORTH END VIEW
(Looking South)



PIER 1 WEST ELEVATION
(Looking East)

PIER 1 SOUTH END VIEW
(Looking North)



PIER 2 WEST ELEVATION
(Looking East)

PIER 2 SOUTH END VIEW
(Looking North)

LEGEND

- Structural Repair of Concrete (Depth Equal to or Less Than 5")
- Structural Repair of Concrete (Greater Than 5")

SF - Square Foot

BILL OF MATERIAL

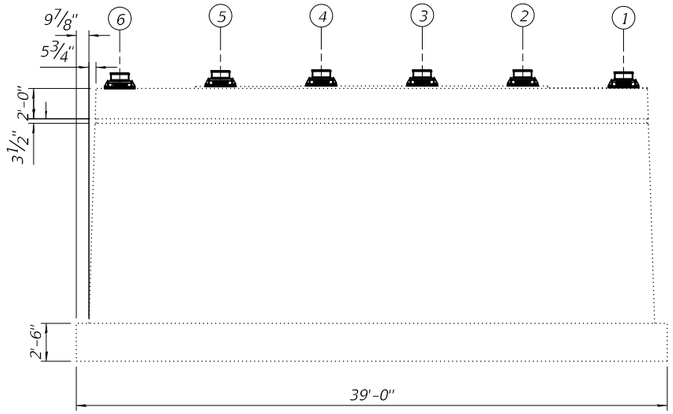
ITEM	UNIT	TOTAL
STRUCTURAL REPAIR OF CONCRETE (DEPTH EQUAL TO OR LESS THAN 5")	SQ FT	103
STRUCTURAL REPAIR OF CONCRETE (DEPTH GREATER THAN 5 INCHES)	SQ FT	2

Bowman
10 S. LaSalle Street, Suite 2110
Chicago, Illinois 60606
312-641-0580
www.bowman.com

USER NAME = atiemann	DESIGNED - AT	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PIER REPAIRS - EASTBOUND STRUCTURE STRUCTURE NO. 049-0046 (EB) & 049-0047 (WB)
	CHECKED - AJN	REVISED -		
PLOT SCALE =	DRAWN - AT/PS	REVISED -		
PLOT DATE = 10/17/2023	CHECKED - AJN	REVISED -		SHEET 30 OF 36 SHEETS

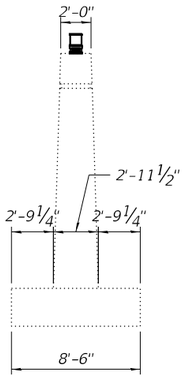
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
333	2021-071-BDR	LAKE	131	105
		CONTRACT NO. 62P09		
		ILLINOIS	FED. AID PROJECT	

MODEL: Default
FILE NAME: P:\040058 - IDOT\040058-01-002 (ENG) - PTB 195-016 Phase II Var Van\Engineering\WO 28 - 62P09 IL-120 at DPR\500 Drawings\502 CADD Sheets\049004S-62P09_Pier Repairs.dgn
10/17/2023 4:44:38 PM



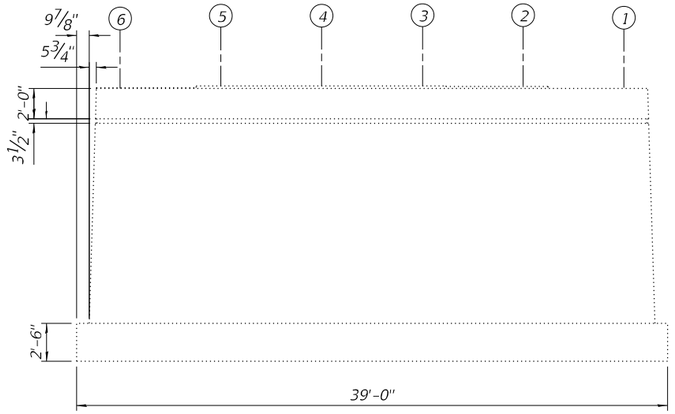
PIER 1 EAST ELEVATION

(Looking West)



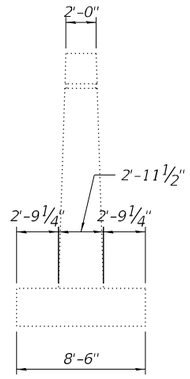
PIER 1 NORTH END VIEW

(Looking South)



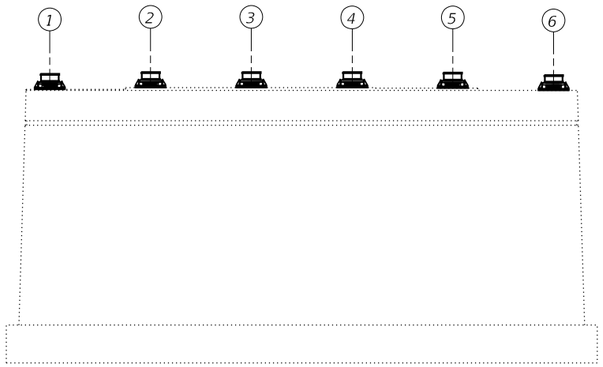
PIER 2 EAST ELEVATION

(Looking West)



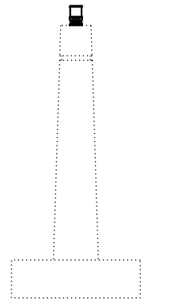
PIER 2 NORTH END VIEW

(Looking South)



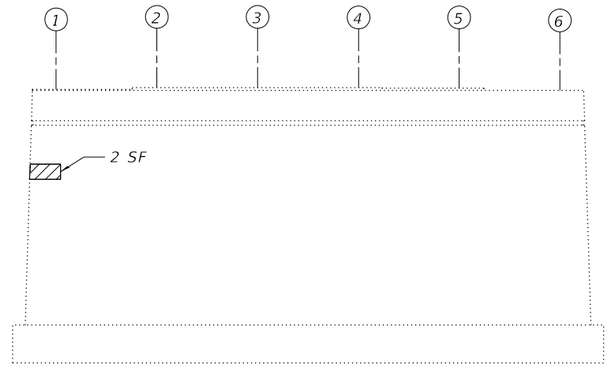
PIER 1 WEST ELEVATION

(Looking East)



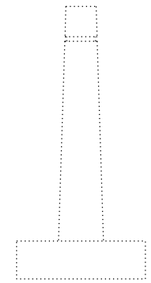
PIER 1 SOUTH END VIEW

(Looking North)



PIER 2 WEST ELEVATION

(Looking East)



PIER 2 SOUTH END VIEW

(Looking North)

LEGEND

▨ – Structural Repair of Concrete (Depth Equal to or Less Than 5")

SF – Square Foot

BILL OF MATERIAL

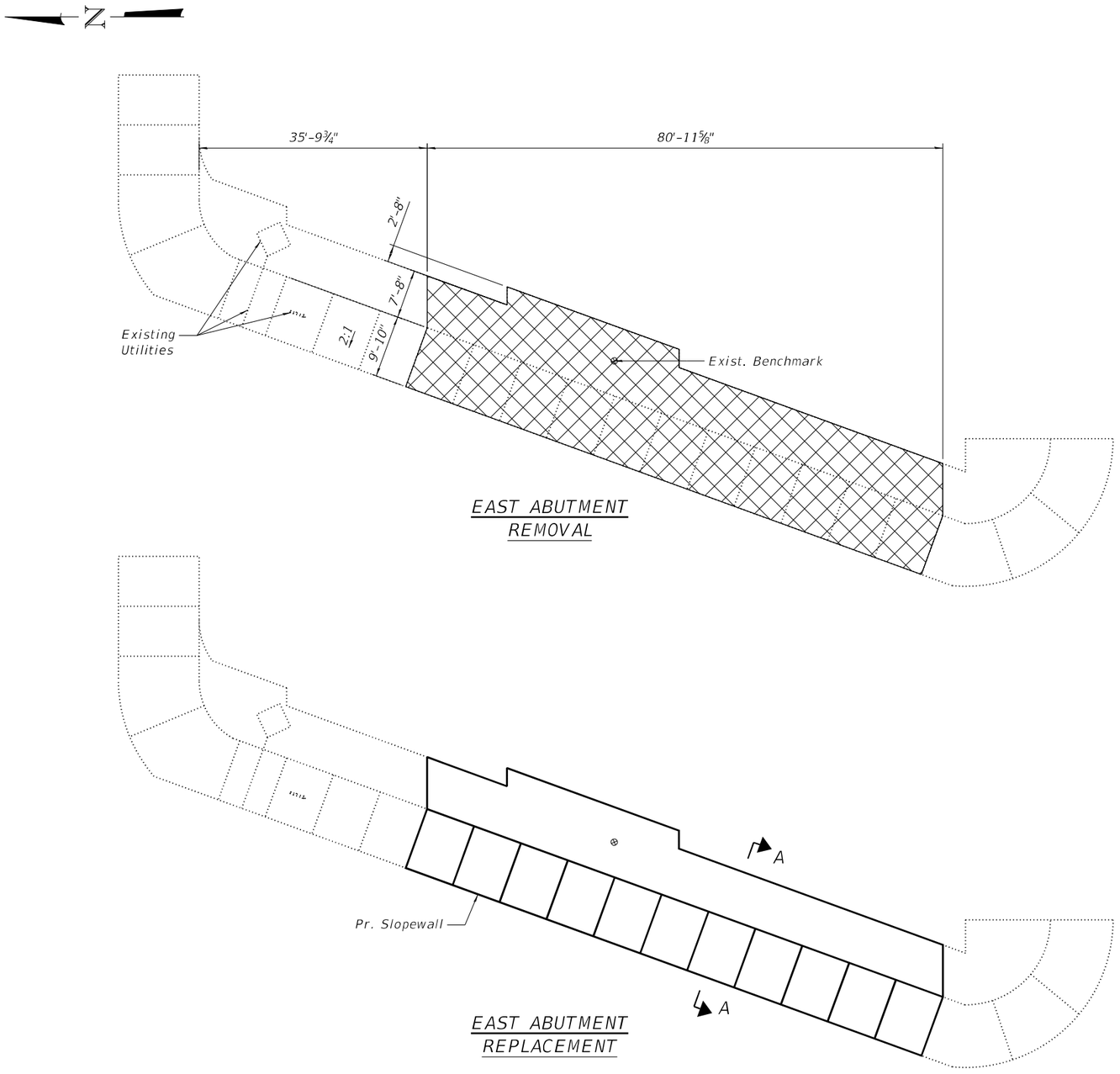
ITEM	UNIT	TOTAL
STRUCTURAL REPAIR OF CONCRETE (DEPTH EQUAL TO OR LESS THAN 5")	SQ FT	2

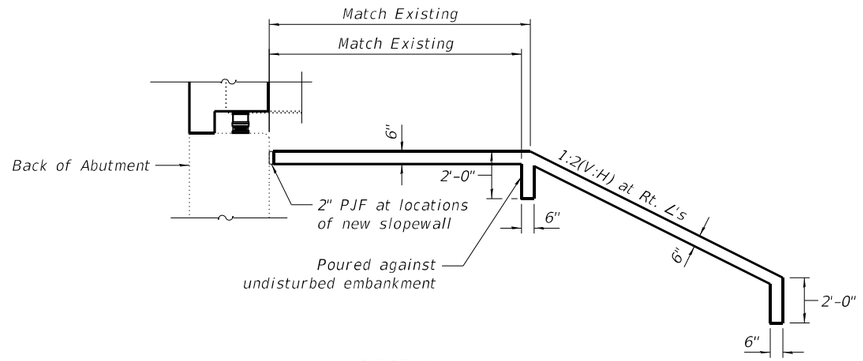
Bowman
10 S. LaSalle Street, Suite 2710
Chicago, Illinois 60603
312-494-0360
www.bowmanep.com

USER NAME = atiemann	DESIGNED - AT	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PIER REPAIRS - WESTBOUND STRUCTURE STRUCTURE NO. 049-0046 (EB) & 049-0047 (WB)	
	CHECKED - AJN	REVISED -			
PLOT SCALE =	DRAWN - AT/PS	REVISED -			
PLOT DATE = 10/17/2023	CHECKED - AJN	REVISED -		SHEET 31 OF 36 SHEETS	

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
333	2021-071-BDR	LAKE	131	106
		CONTRACT NO. 62P09		
	ILLINOIS	FED. AID PROJECT		

MODEL: Default
FILE NAME: P:\040058 - IDOT\040058-01-002 (ENG) - PTB 195-016 Phase II Var Var\Engineering\WO 28 - 62P09 IL-120 at DPR\500 Drawings\502 CADD Sheets\049004746 2P00_Pier Repairs.dgn
10/17/2023 4:44:39 PM





SECTION A-A
SECTION THRU CONCRETE SLOPEWALL

LEGEND

▨ - Concrete Removal

BILL OF MATERIAL

ITEM	UNIT	TOTAL
SLOPE WALL REMOVAL	SQ YD	188
SLOPE WALL 6 INCH	SQ YD	188

SD-32

Bowman 10 S. LaSalle Street, Suite 2110 Chicago, Illinois 60603 312-494-0360 www.bowman.com

USER NAME = pskolba	DESIGNED - AT	REVISED -	
	CHECKED - AJN	REVISED -	
PLOT SCALE =	DRAWN - AT/PS	REVISED -	
PLOT DATE = 06/21/2023	CHECKED - AJN	REVISED -	

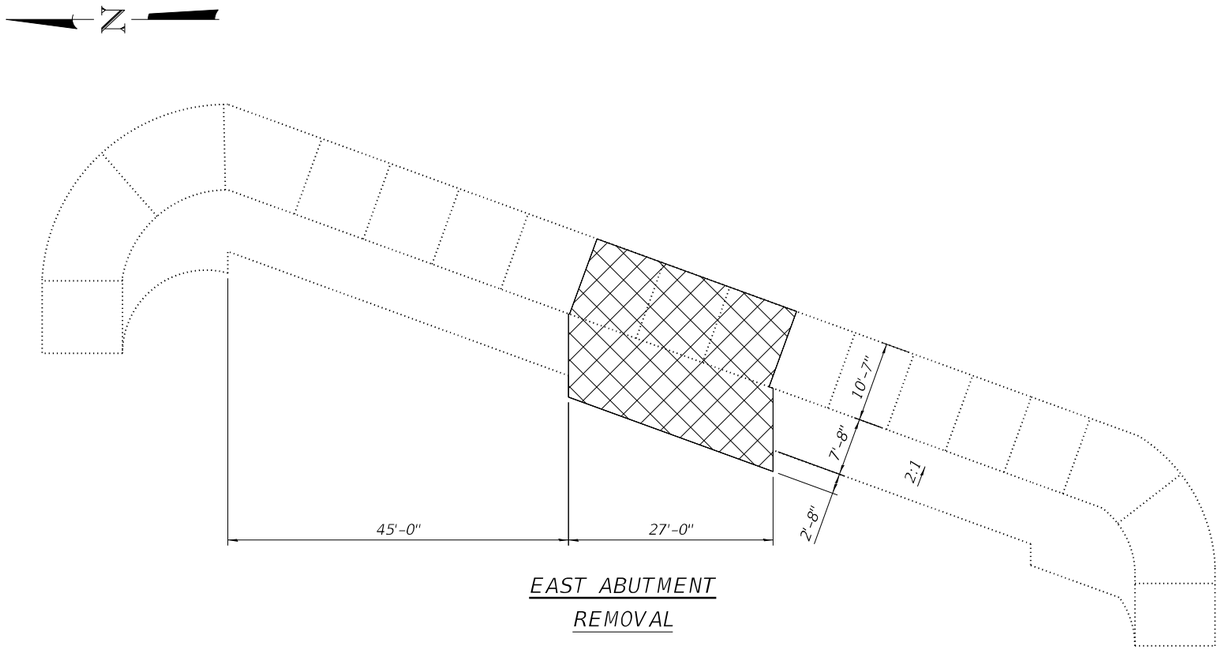
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SLOPE WALL REPAIR - EAST ABUTMENT
STRUCTURE NO. 049-0046 (EB) & 049-0047 (WB)
SHEET 32 OF 36 SHEETS

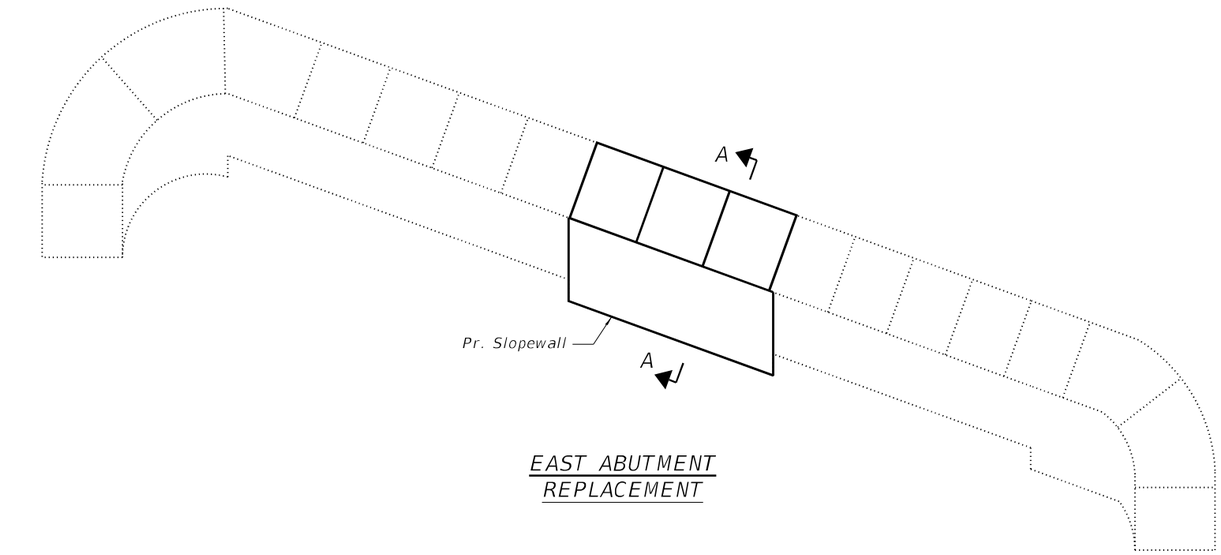
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
333	2021-071-BDR	LAKE	131	107
		CONTRACT NO.		62P09
		ILLINOIS	FED. AID PROJECT	

MODEL: Default
FILE NAME: P:\040058 - IDOT\040058-01-002 (ENG) - PTB 195-016 Phase II Var Van\Engineering\WO 28 - 62P09 IL-120 at DPR500 Drawings\502 CADD Sheets\04900046_47-62P09_East Slopewall.dgn

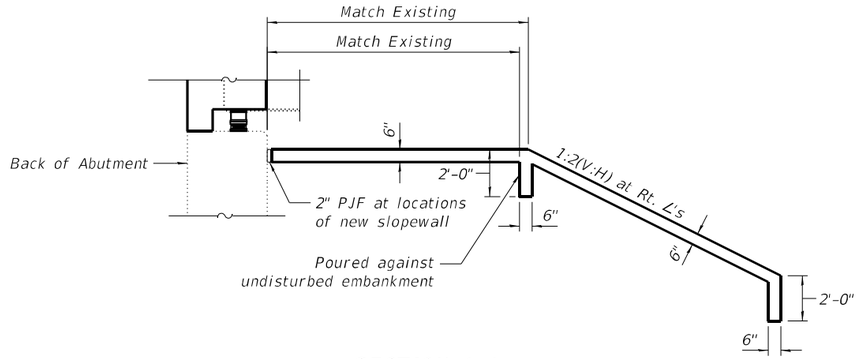
06/21/2023 4:43:44 PM



EAST ABUTMENT
REMOVAL



EAST ABUTMENT
REPLACEMENT



SECTION A-A
SECTION THRU CONCRETE SLOPEWALL

LEGEND

- Concrete Removal

BILL OF MATERIAL

ITEM	UNIT	TOTAL
SLOPE WALL REMOVAL	SQ YD	70
SLOPE WALL 6 INCH	SQ YD	70

SD-33

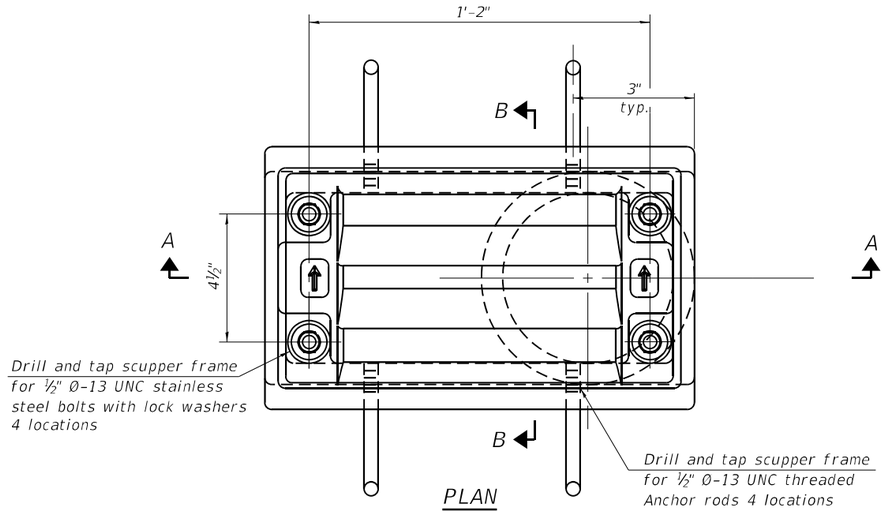
Bowman
10 S. LaSalle Street, Suite 2100
Chicago, Illinois 60606
312-419-0380
www.bowman.com

USER NAME = pskolba	DESIGNED - AT	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SLOPE WALL REPAIR - WEST ABUTMENT STRUCTURE NO. 049-0046 (EB) & 049-0047 (WB)
	CHECKED - AJN	REVISED -		
PLOT SCALE =	DRAWN - AT/PS	REVISED -		SHEET 33 OF 36 SHEETS
PLOT DATE = 06/21/2023	CHECKED - AJN	REVISED -		

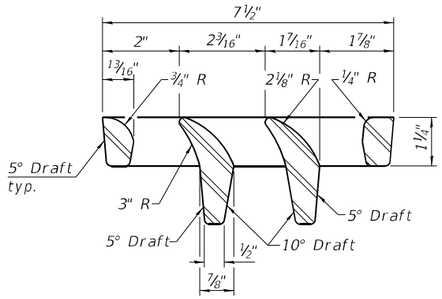
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
333	2021-071-BDR	LAKE	131	108
		CONTRACT NO. 62P09		
		ILLINOIS	FED. AID PROJECT	

MODEL: Default
FILE NAME: P:\040058 - IDOT\040058-01-002 (ENG) - PTB 195-016 Phase II Var Van\Engineering\WO 28 - 62P09 IL-120 at DPR\500 Drawings\502 CADD Sheets\04900046_47-62P09_West Slopewall.dgn

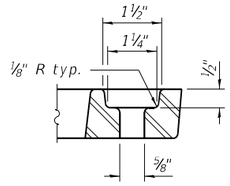
06/21/2023 4:43:45 PM



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.

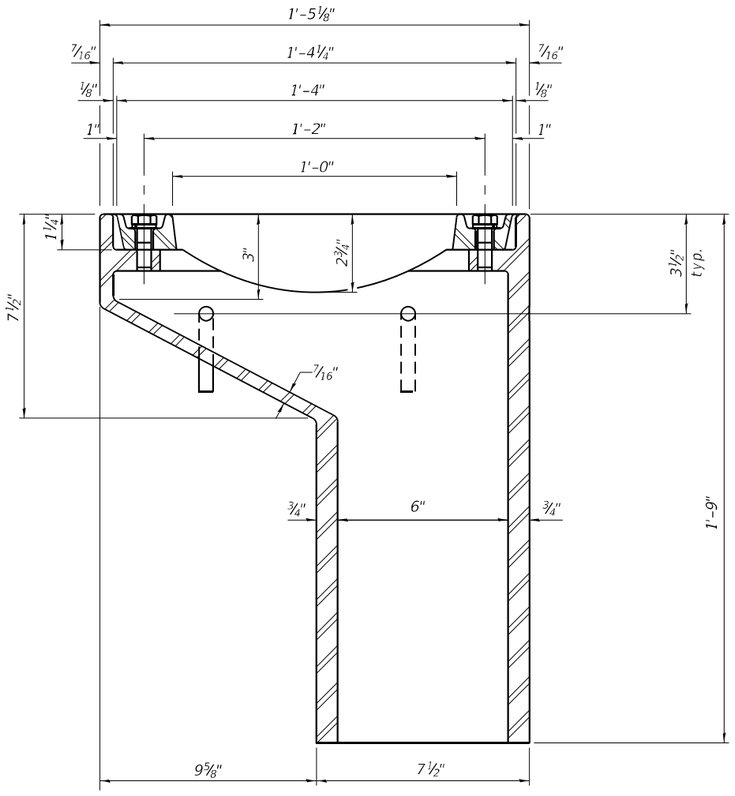
Structural steel scupper frames and downspouts, when utilized, shall be galvanized according to AASHTO M111.

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 treated as specified on sheet SD-34 of SD-36.

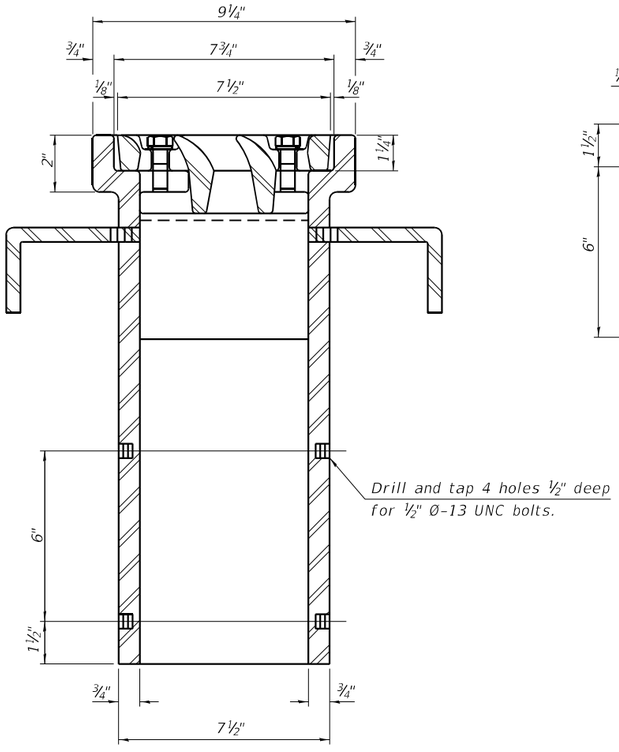
The Contractor shall take appropriate measures to assure that Protective Coat is not applied to the scupper.

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 Scupper, DS-11.

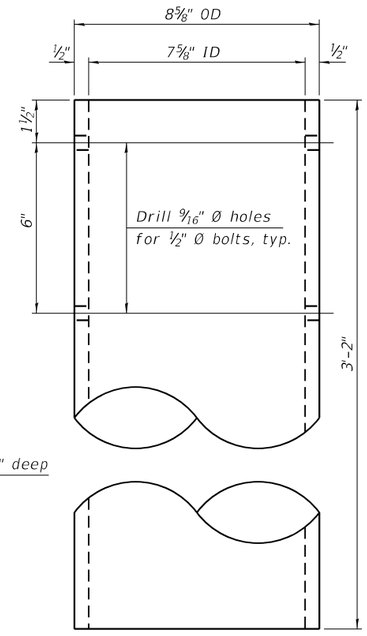


SECTION A-A

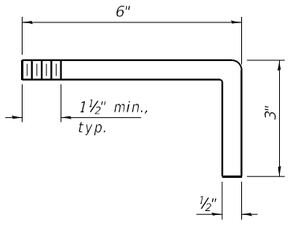
See sheet of for scupper location relative to parapet.



SECTION B-B



DOWNSPOUT



ANCHOR ROD DETAIL

BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Drainage Scupper, DS-11	Each	8

DS-11

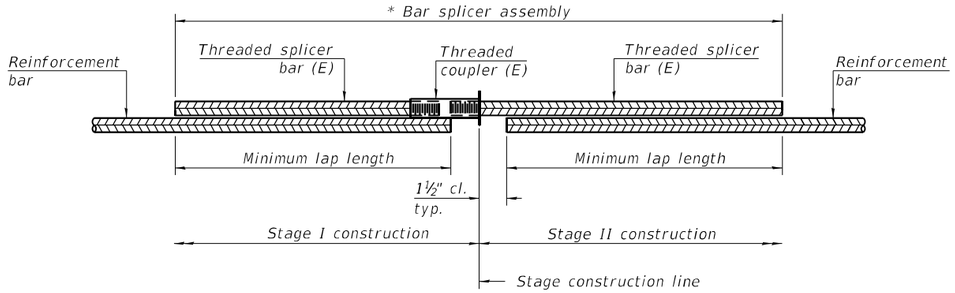
5-15-2023

SD-34

Bowman 10 S. LaSalle Street, Suite 2100 Chicago, Illinois 60606 312-345-0480 www.bowman.com	USER NAME = pskolba	DESIGNED - AT	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DRAINAGE SCUPPER, DS-11 STRUCTURE NO. 049-0046 (EB) & 049-0047 (WB)
		CHECKED - AJN	REVISED -		
	PLOT SCALE =	DRAWN - AT/PS	REVISED -		SHEET 34 OF 36 SHEETS
	PLOT DATE = 10/10/2023	CHECKED - AJN	REVISED -		

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
333	2021-071-BDR	LAKE	131	109
		CONTRACT NO. 62P09		
		ILLINOIS	FED. AID PROJECT	

MODEL: Default
FILE NAME: P:\040058 - IDOT\040058-01-002 (ENG) - PTB 195-016 Phase II Var VanEngineering\WO 28 - 62P09 IL-120 at DPR\500 Drawings\502 CADD Sheets\049004G_47-62P09__Drainage Scupper.dgn
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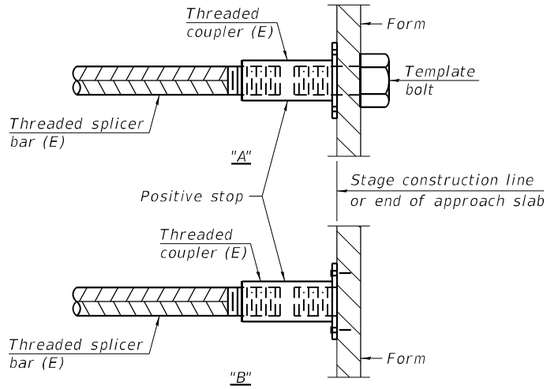
STANDARD BAR SPLICER ASSEMBLY PLAN

(All components shall be provided from one supplier)

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

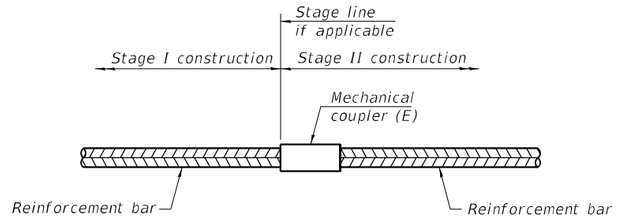
* Epoxy not required on Bar Splicer Assembly components used in conjunction with black bars.

Location	Bar size	No. assemblies required	Minimum lap length
East Abutment	#5	83	3'-1"
West Abutment	#5	83	3'-1"



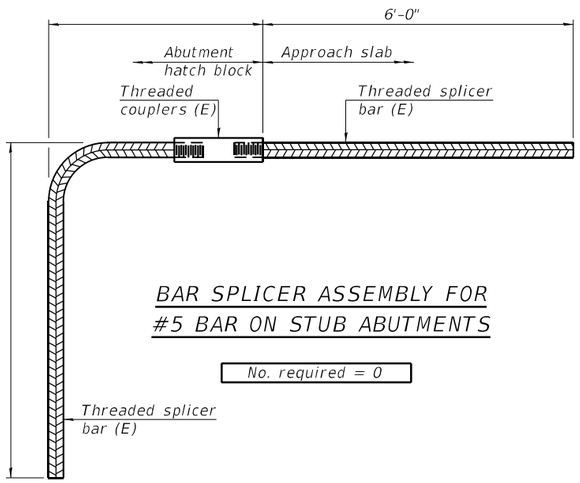
INSTALLATION AND SETTING METHODS

"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



BAR SPLICER ASSEMBLY FOR #5 BAR ON STUB ABUTMENTS

No. required = 0

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

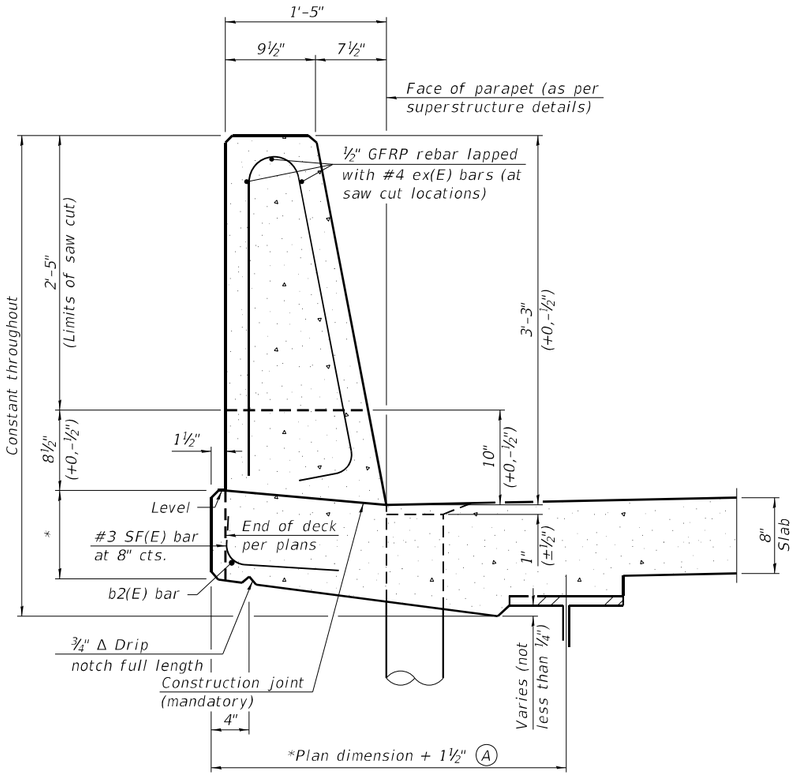
SD-35

Bowman
10 N. LaSalle Street, Suite 2100
Chicago, Illinois 60606
312-641-0580
www.bowman.com

USER NAME = pskolba	DESIGNED - AT	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	BAR SPLICER ASSEMBLY AND MECHANICAL SPLICER DETAILS STRUCTURE NO. 049-0046 (EB) & 049-0047 (WB)
	CHECKED - AJN	REVISED -		
PLOT SCALE =	DRAWN - AT/PS	REVISED -		SHEET 35 OF 36 SHEETS
PLOT DATE = 06/21/2023	CHECKED - AJN	REVISED -		

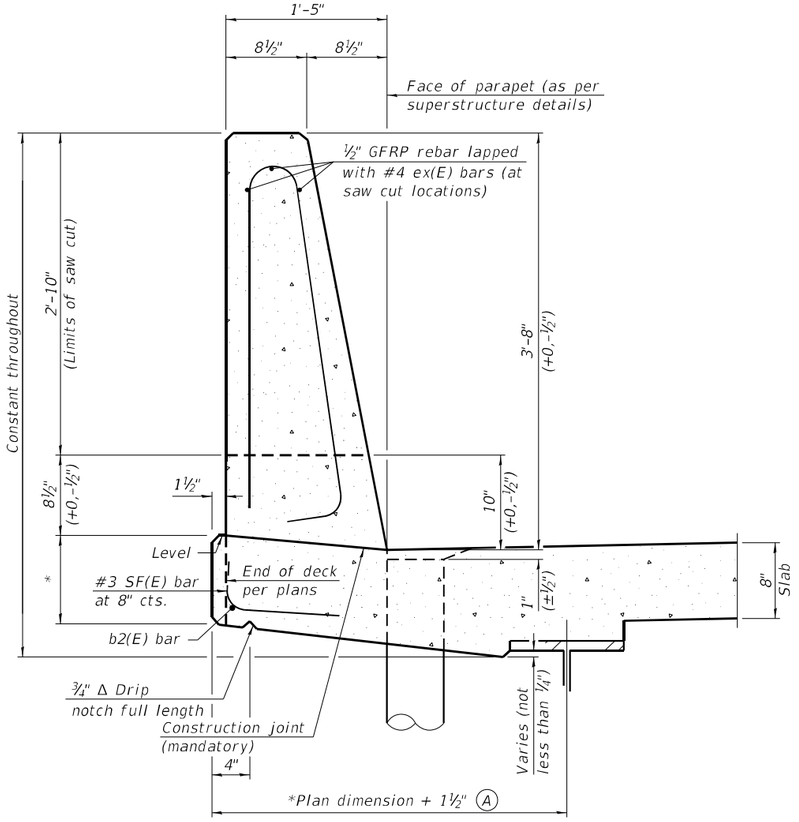
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
333	2021-071-BDR	LAKE	131	110
		CONTRACT NO.	62P09	
		ILLINOIS	FED. AID PROJECT	

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06/21/2023 4:43:46 PM



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.

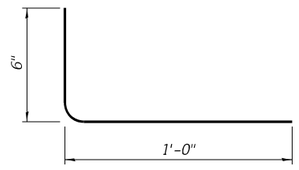
Notes:

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.

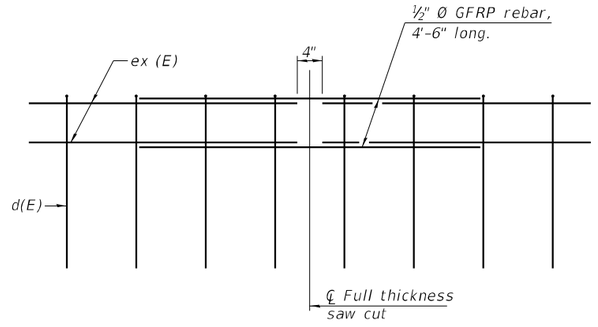
Place full depth aluminum sheets as shown on superstructure details.

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

Steel superstructure shown. Other superstructure types similar.



#3 (E) BAR



GFRP REBAR STIFFENING DETAIL

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

SFP 39-44 1-1-2020

SD-36

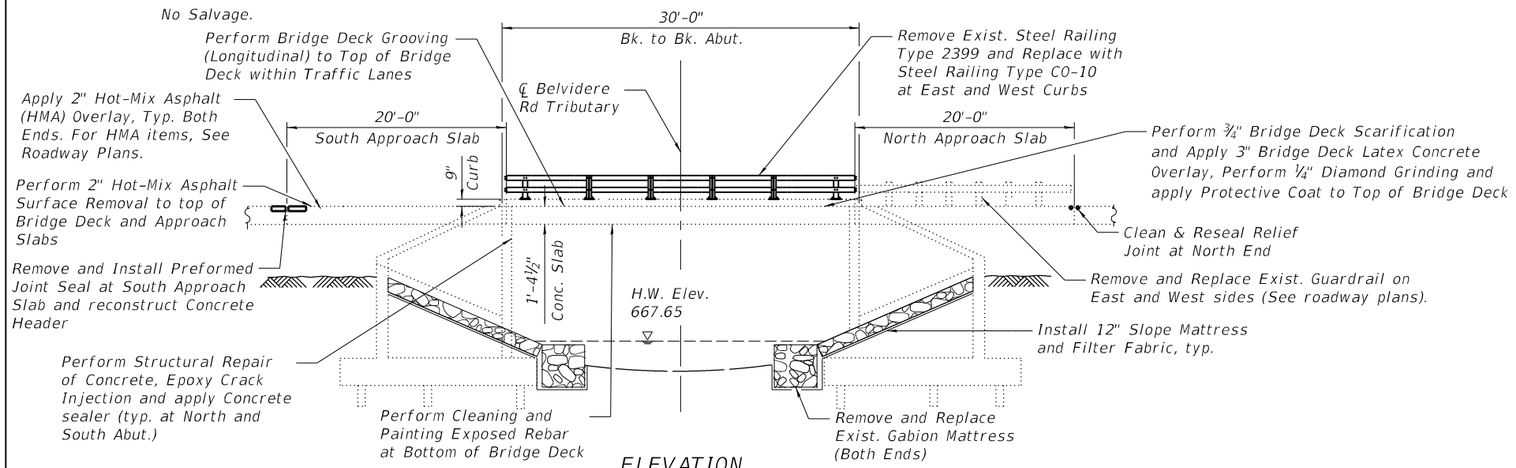
Bowman 10 S. LaSalle Street, Suite 2100 Chicago, Illinois 60606 312-419-0580 www.bowman.com	USER NAME = pskolba	DESIGNED - AT	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CONCRETE PARAPET SLIPFORMING STRUCTURE NO. 049-0046 (EB) & 049-0047 (WB)
		CHECKED - AJN	REVISED -		
	PLOT SCALE =	DRAWN - AT/PS	REVISED -		SHEET 36 OF 36 SHEETS
	PLOT DATE = 06/21/2023	CHECKED - AJN	REVISED -		

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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		CONTRACT NO. 62P09		
	ILLINOIS FED. AID PROJECT			

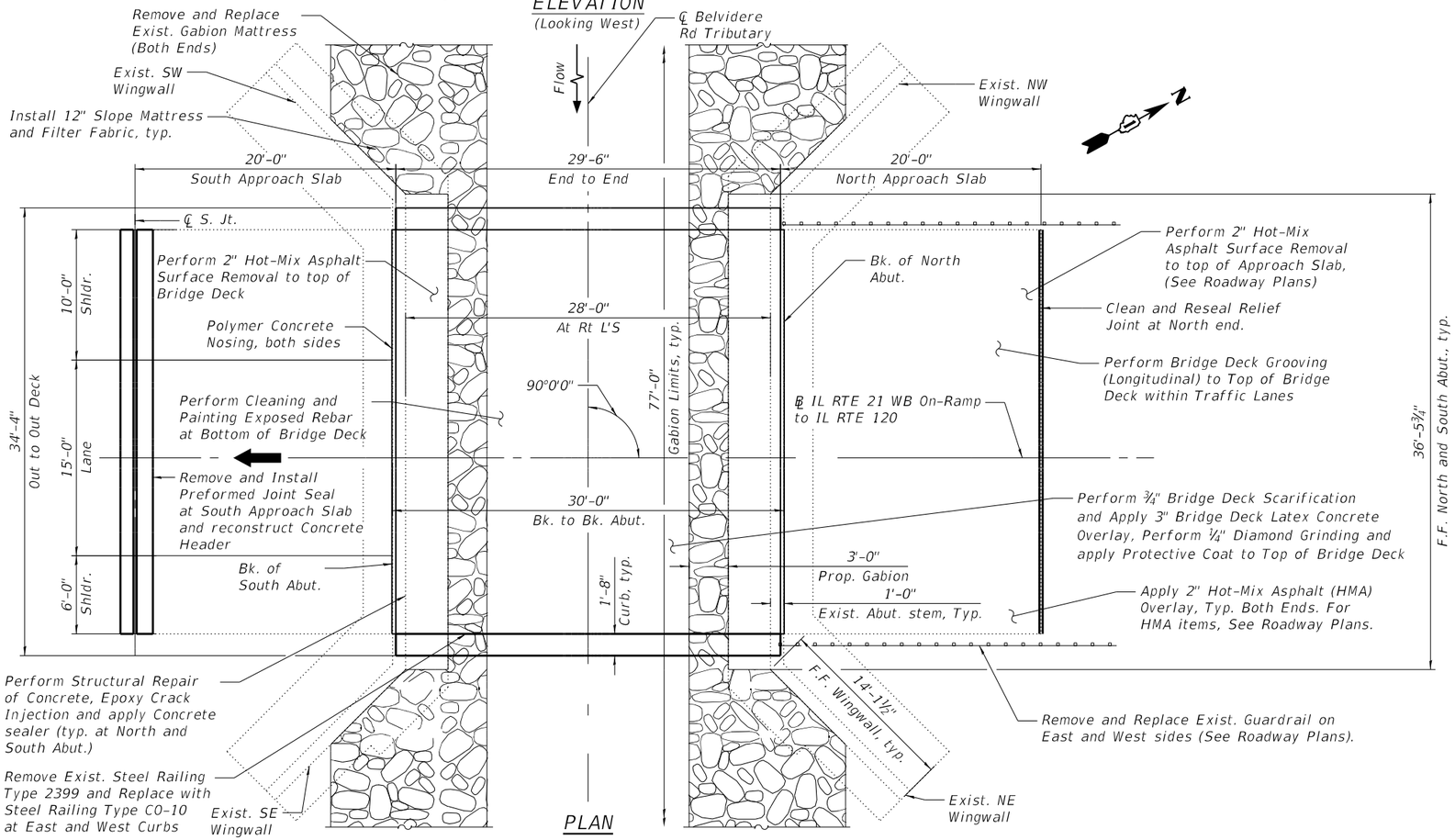
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06/21/2023 4:43:46 PM

Existing Structure: *The existing Structure No. 049-0053, Located on Entrance Ramp IL RTE 120 to IL RTE 120 is single span bridge that was originally built in 1960 under contract F-43 (15). It is 29'-6" from back to back of abutments and has out to out width of 34'-4". It consists of 16'-0" roadway, 5'-6" inside shoulder, 9'-6" outside shoulder, and 1'-8" concrete curb with railing on each side. The structure was rehabilitated in 1988 under Contract C-91-157-88. Concrete cut-off walls were constructed along the toes of the abutment footings and downstream wingwalls. The channel was reshaped and the streambed underneath the structure was lined with coarse aggregate. In 1993, The existing approach slabs were scarified and overlaid with a bituminous surface. the deck surface area was repaired with partial-depth patches. The southeast wingwall was removed and replaced. The structure was rehabilitated in 2001. The rehabilitation consisted of deck receiving partial-depth patches and a 2" bituminous overlay and waterproofing membrane.*

No Salvage.



ELEVATION
(Looking West)



PLAN

HIGHWAY CLASSIFICATION

IL RTE 21 Westbound On-Ramp to IL RTE 120
Functional Class: Other Principal Arterial
ADT: 1,400 (2015) / 1,900 (2040)
ADTT: 350 (2015) /475 (2040)
DHV: 140 (2015)
Design Speed: 30 M.P.H
Posted Speed: 25 M.P.H
One - Way Traffic

NOTES

1. *For General Notes, Index of Sheets and TBOM see sheet SE-02.*
2. *For Gabion Mattress Repair limits and details, see sheet SE-06.*

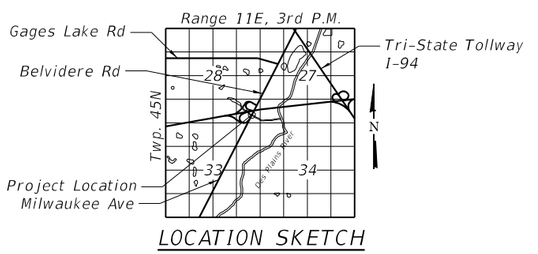
LOADING

No Future Wearing Surface Allowed, H20-S16

STATE OF ILLINOIS
MAEN A. FARHAT
081.008545
LICENSED STRUCTURAL ENGINEER

Signed: Maen A Farhat

MAEN A. FARHAT, SE
IL Lic. No.: 081-008545
Expires: 11/30/2024



LOCATION SKETCH

GENERAL PLAN AND ELEVATION
WB IL 120 OVER BELVIDERE RD TRIBUTARY
F.A.P. 0333 SECTION 2021-071-BDR
LAKE COUNTY
STATION: 350+63
S.N. 049-0053

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		CHECKED - MAF	REVISED -
	PLOT SCALE =	DRAWN - ME	REVISED -
	PLOT DATE =	CHECKED - MAF	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STRUCTURE NUMBER 049-0053
SHEET SE-01 OF SE-09 SHEETS

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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		CONTRACT NO. 62P09		
	ILLINOIS FED. AID PROJECT			

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GENERAL NOTES

1. 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.

2. All exposed concrete edges shall have a ¾"x45° chamfer, except where shown otherwise.

3. Protective Coat shall be applied to the top and inside face of parapets, reconstructed transverse Expansion Joints and to the surface of the new Latex Concrete overlay.

4. Concrete Sealer shall be applied to the designated areas of the abutments.

5. Layout of the slope protection system may be varied to suit ground conditions in the field as directed by the engineer.

6. Up to ¼" inch to be ground off the bridge deck and the bridge approach slabs. The profile Grade shows the final grade after grinding.

7. For HMA Removal and Overlay on Approach slab, See Roadway Plans.

SCOPE OF WORK

1. Perform 2" Hot-Mix Asphalt Removal at the Bridge Deck and 2" Hot-Mix Asphalt Removal at the Approach Slabs, See Roadway Plans.

2. Scarify ¾" from the Bridge Deck Slab.

3. Perform Partial-depth Repairs to the Bridge Deck Slab and Approach Slabs.

4. Remove and install Preformed Jt. Seal at South Approach Slab and reconstruct Concrete Header. Clean and Reseal Relief Joint at North Approach Slab.

5. Apply 3" Bridge Deck Latex Concrete Overlay on Bridge Deck and 2" Hot-Mix Asphalt (HMA) Overlay on the Approach Slabs, See Roadway Plans.

6. Perform ¼" Diamond Grinding to top of bridge deck.

7. Perform Bridge Deck Grooving (Longitudinal) within Traffic Lanes.

8. Perform Cleaning and Painting Exposed Reinforcement at the Bottom of Deck.

9. Apply Protective Coat to the top and inside Faces of Parapets and to the top Surface of Latex Concrete Overlay.

10. Perform Structural Repair of Concrete, Epoxy Crack Injection, and apply Concrete Sealer to Abutments as noted on plans.

11. Remove Existing Gabion Mattress along the Front Face of Abutments.

12. Place Filter Fabric along the Front Face of Abutments and Wingwall as shown on the plans.

13. Install Proposed Gabions and 12" Slope Mattress at the Front Face of East and West Wingwalls.

INDEX OF SHEETS

SE-01	General Plan And Elevation
SE-02	General Notes, Index Of Sheets & TBOM
SE-03	Bridge Deck and Approach Slabs Repair Plan
SE-04	North And South Abutment Repairs
SE-05	Steel Railing Details, Type CO-10
SE-06	Gabion Mattress Details
SE-07	Existing Plans (Sheet 1 of 3)
SE-08	Existing Plans (Sheet 2 of 3)
SE-09	Existing Plans (Sheet 3 of 3)

ABBREVIATIONS

Abut.	Abutment	L'S	Angle
B.F.	Back Face	Prop.	Proposed
Bk.	Back	Rd	Roadway
℄	Centerline	Rt.	Right
Cl.	Clear	Shldr.	Shoulder
Conc.	Concrete	S.N.	Structure Number
Elev.	Elevation	Spa.	Spacing
Exist.	Existing	Sta.	Station
F.F.	Front Face.	Typ.	Typical
H.W.	High Water	Ø	Diameter
Jt.	Joint		

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Filter fabric	Sq Yd	-	209	209
Gabions	Cu Yd	-	52	52
Slope Mattress 12"	Sq Yd	-	58	58
Hot-Mix Asphalt Surface Removal, 2"	Sq Yd	102	-	102
Concrete Removal	Cu Yd	0.9	-	0.9
Bridge Rail Removal	Foot	60	-	60
Protective Coat	Sq Yd	113	-	113
Concrete Superstructure (Approach Slabs)	Cu Yd	0.9	-	0.9
Reinforcement Bars, Epoxy Coated	Pound	210	-	210
Steel Railing, Type CO-10	Foot	60	-	60
Concrete Sealer	Sq Ft	-	774	774
Epoxy Crack Injection	Foot	-	47	47
Clean And Reseal Relief Joint	Foot	31	-	31
Gabion Removal	Cu Yd	-	52	52
Bridge Deck Grooving (Longitudinal)	Sq Yd	50	-	50
Cleaning And Painting Exposed Rebar	Sq Ft	113	-	113
Bridge Deck Latex Concrete Overlay, 3 Inches	Sq Yd	102	-	102
Bridge Deck Scarification ¾"	Sq Yd	102	-	102
Structural Repair of Concrete (Depth Equal to or less than 5")	Sq Ft	-	19	19
Drill And Grout Bars	Each	62	-	62
Diamond Grinding (Bridge Section)	Sq Yd	89	-	89
Polymer Concrete	Cu Ft	3	-	3

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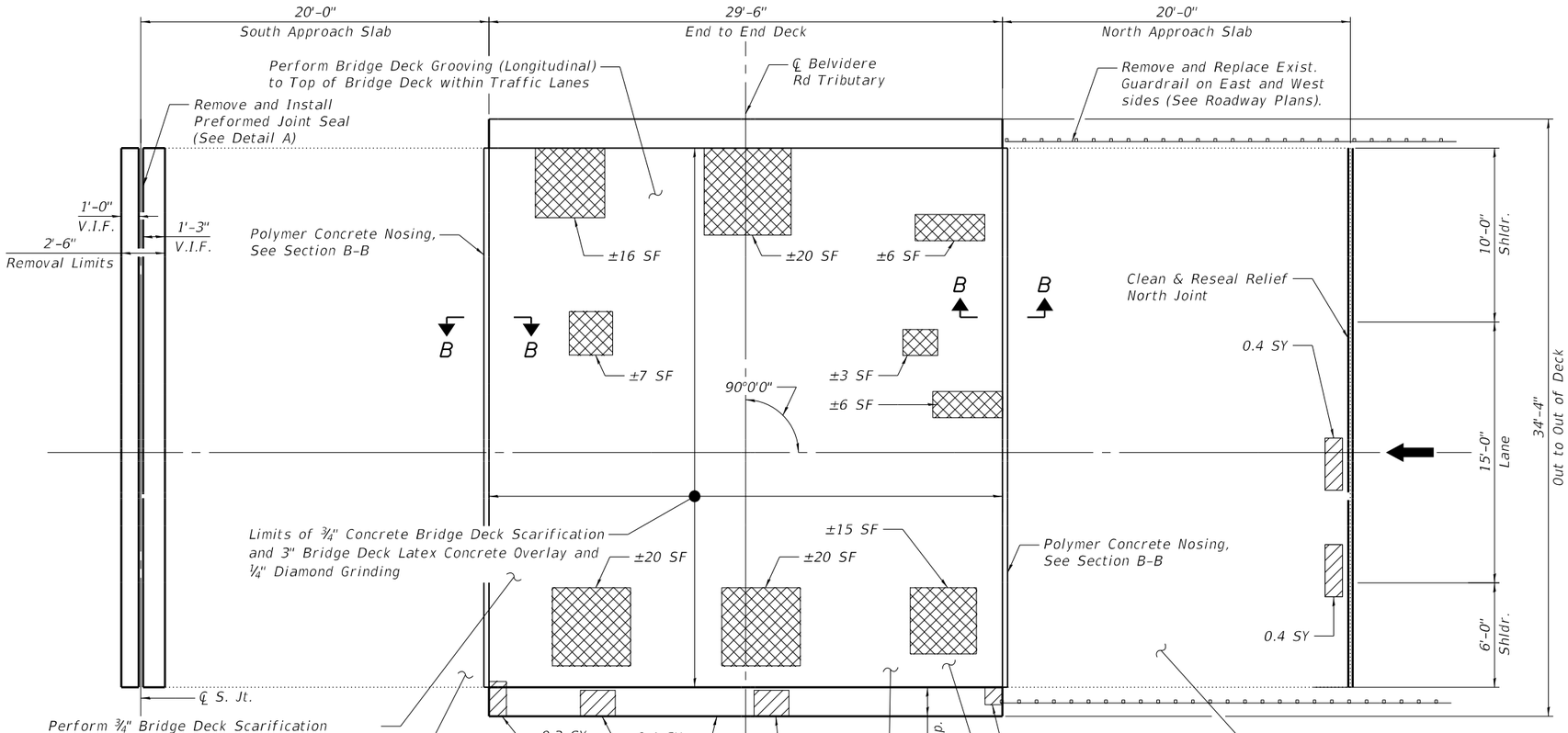
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PLOT SCALE =	DRAWN - ME	REVISED -	
PLOT DATE =	CHECKED - MAF	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL NOTES, INDEX OF SHEETS & TBOM
STRUCTURE NUMBER 049-0053
SHEET SE-02 OF SE-09 SHEETS

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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		CONTRACT NO. 62P09		
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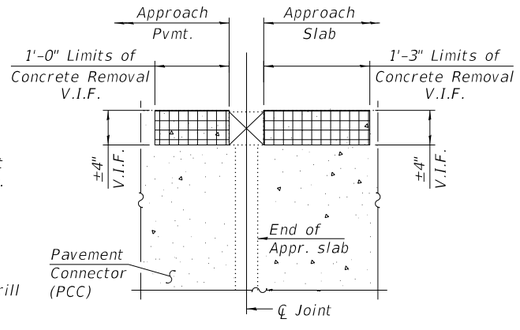


DECK PLAN

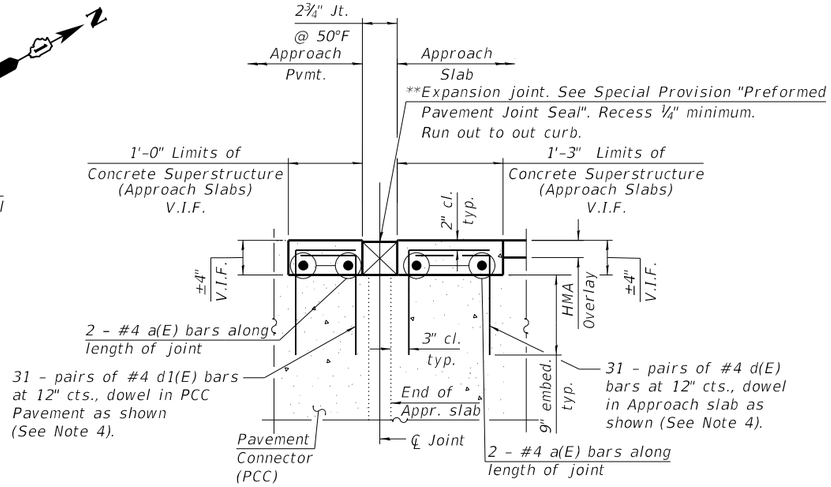
* Areas of Deck Slab Repair (Partial) are provided for information only and shall be included in the cost of Bridge Deck Latex Concrete Overlay, 3".

NOTES:

1. Quantities and limits shown are estimated for bidding purpose only. The actual areas to be repaired and the type(s) of repairs to be used will be determined by the engineer in the field at the time of construction.
2. Protective Coat shall be applied to top and inside face of curbs, the new Preformed Joint Seal areas and top of Latex Concrete Overlay.
3. See Sheet SE-05 of SE-09 for Steel Rail replacement details and quantities.
4. Epoxy grout d(E) and d1(E) bars according to Article 584 of the Standard Specifications. Drill to miss existing reinforcement. Cost included in Concrete Superstructure (Approach Slabs).
5. Joint openings shall be adjusted according to Article 520.04 of the Standard Specification when the deck is poured at an ambient temperature other than 50° F.



DETAIL A: P.J.S. Removal



DETAIL A: P.J.S. Construction

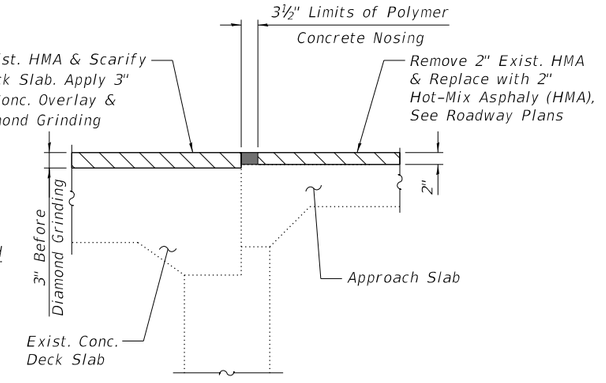
**Cost included with Concrete Superstructure (Approach Slab)

BILL OF MATERIAL

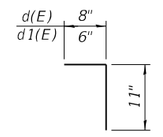
Bar	No.	Size	Length	Shape
a(E)	4	#4	30'-8"	———
d(E)	62	#4	1'-7	⌐
d1(E)	62	#4	1'-5"	⌐
Hot-Mix Asphalt Surface Removal, 2"			Sq Yd	102
Concrete Removal			Cu Yd	0.9
Bridge Rail Removal			Foot	60
Protective Coat			Sq Yd	113
Concrete Superstructure (Approach Slabs)			Cu Yd	0.9
Reinforcement Bars, Epoxy Coated			Pound	210
Clean & Reseal Relief Joint			Foot	31
Bridge Deck Grooving (Longitudinal)			Sq Yd	50
Cleaning And Painting Exposed Rebar			Sq Ft	113
Bridge Deck Latex Concrete Overlay 3 Inches			Sq Yd	102
Bridge Deck Scarification ¾"			Sq Yd	102
Drill And Grout Bars			Each	62
Diamond Grinding (Bridge Section)			Sq Yd	89
Polymer Concrete			Cu Ft	3

LEGEND

- *Deck Slab Repair (Partial Depth)
- Cleaning and painting exposed rebar
- Polymer Concrete Nosing
- Concrete Removal
- SF Square Foot



SECTION B-B



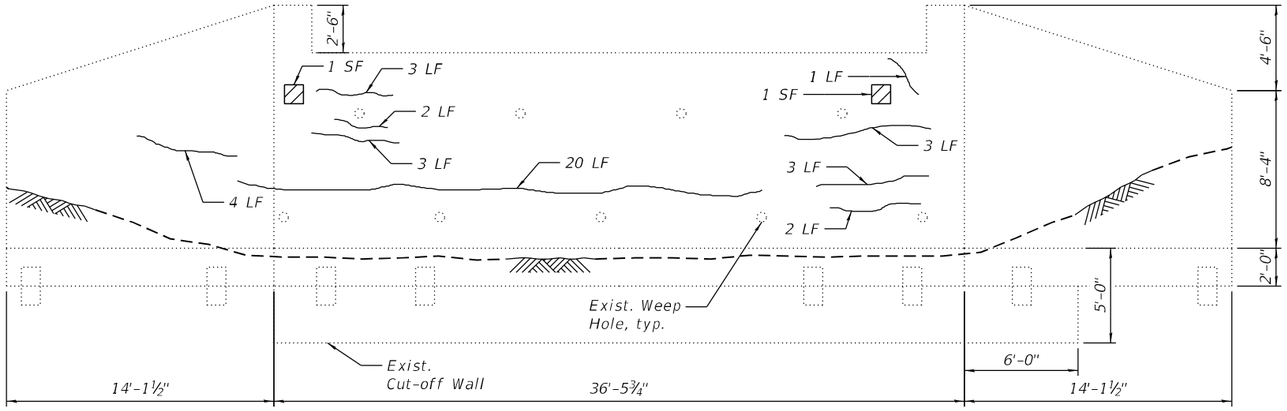
BARS d(E) and d1(E)

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		CHECKED - MAF	REVISED -		
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	PLOT DATE =	CHECKED - MAF	REVISED -		

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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NORTH ABUTMENT ELEVATION

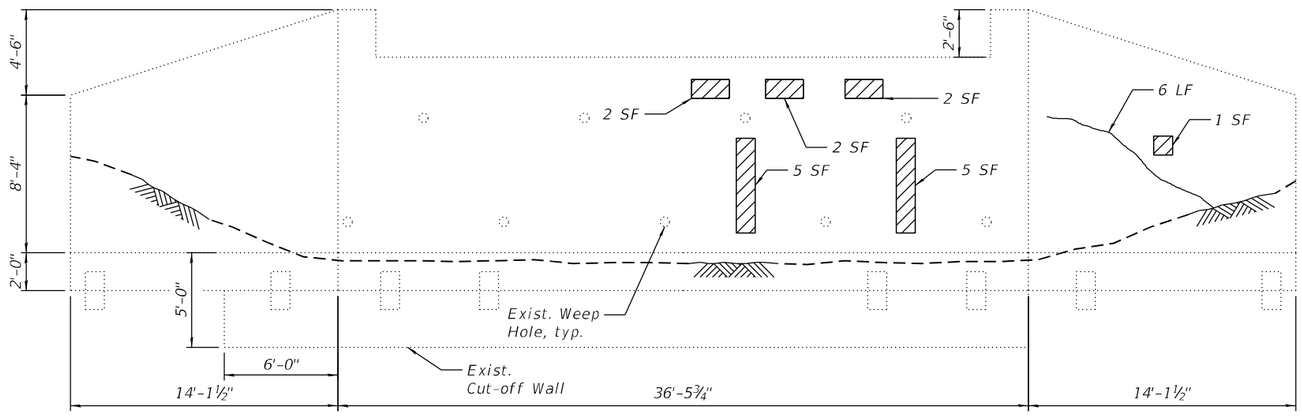
(Looking North)

NORTH ABUTMENT BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Concrete Sealer	Sq Ft	387
Epoxy Crack Injection	Foot	41
Structural Repair of Concrete (Depth Equal to or Less than 5 Inches)	Sq Ft	2

NOTES

1. For General Notes, Index of Sheets and Total Bill of Material, see sheet SE-02 .
2. Quantities and limits shown are estimated for bidding purpose only. The actual areas to be repaired and the type(s) of repairs to be used will be determined by the engineer in the field at the time of construction.
3. Concrete Sealer shall be applied to the Abutment stems.



SOUTH ABUTMENT ELEVATION

(Looking South)

SOUTH ABUTMENT BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Concrete Sealer	Sq Ft	387
Epoxy Crack Injection	Foot	6
Structural Repair of Concrete (Depth Equal to or Less than 5 Inches)	Sq Ft	17

LEGEND

- Structural Repair of Concrete (Depth Equal to or less than 5")
- Epoxy Crack Injection (width > 0.06")
- SF Square Foot
- LF Linear Foot

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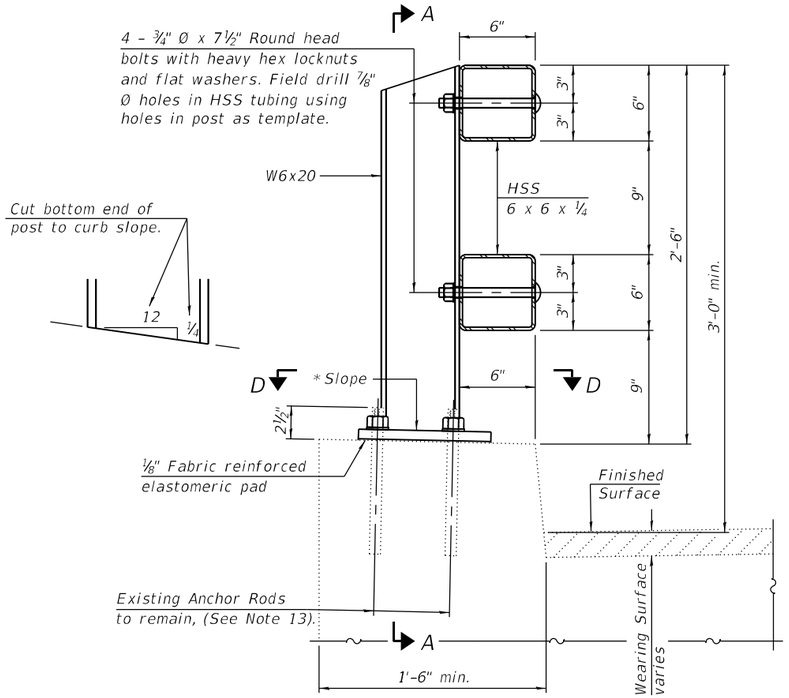
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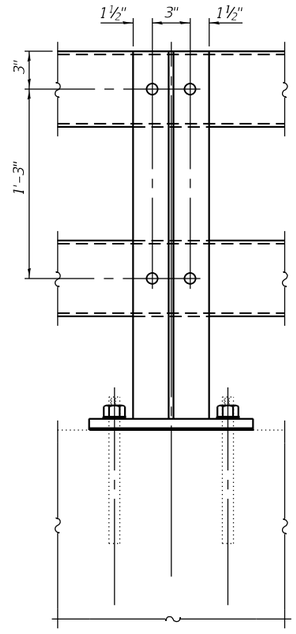
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

NORTH AND SOUTH ABUTMENT REPAIRS
STRUCTURE NUMBER 049-0053
SHEET SE-04 OF SE-09 SHEETS

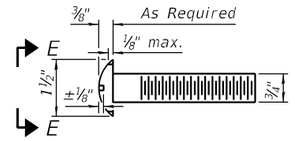
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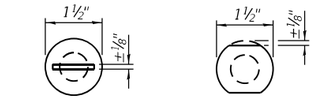
SECTION AT RAIL POST
(Retrofit construction)



SECTION A-A



ROUND HEAD BOLT DETAIL



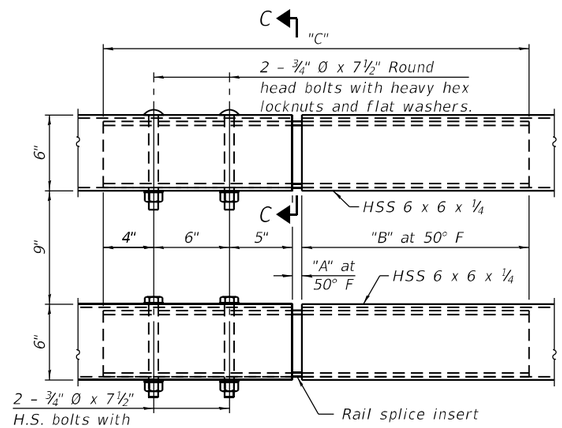
With Slot (shown) or Approved Recess

Without Slot or Recess

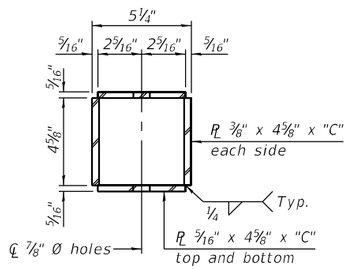
VIEW E-E

NOTES

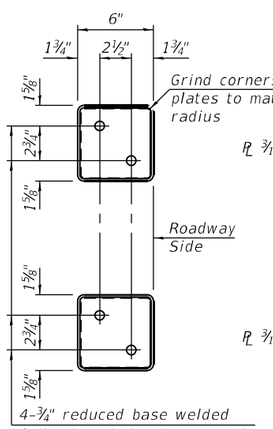
1. All HSS tubing shall be ASTM A500 grade C.
2. All plates shall be AASHTO M270 grade 50.
3. All heavy hex nuts shall be according to ASTM A563 grade DH.
4. All fully threaded anchor rods shall be ASTM F1554 grade 105.
5. The post base plate shall be fastened to the curb snug tight and given an additional ⅛" turn.
6. Posts shall not be located closer than 2'-6" to a bridge expansion joint.
7. Provide one ⅛" and two 1/16" steel shims for 25% of the posts. Shims shall be similar to base plates in size and holes.
8. All steel rail elements shall be galvanized according to Article 509.05 of the Standard Specifications.
9. All HSS tubing shall be CVN tested according to Article 1006.34(b) of the Standard Specifications.
10. Rail splice inserts may be built out of 2 -⅜" bent plates in lieu of the 4 plate rail splice inserts shown, provided the outside dimensions are matched.
11. All round head bolts shall be ASTM A449. The centerline of rail splices shall be placed between 1'-8" to 2'-6" from the centerline of the posts.
12. The free end of the splice tube shall be oriented away from the closest post.
13. Existing Anchor Rods shall be cleaned and reused in installing new Hand Rail. Existing washers and nuts shall be replaced with new washers and heavy hex lock nuts.



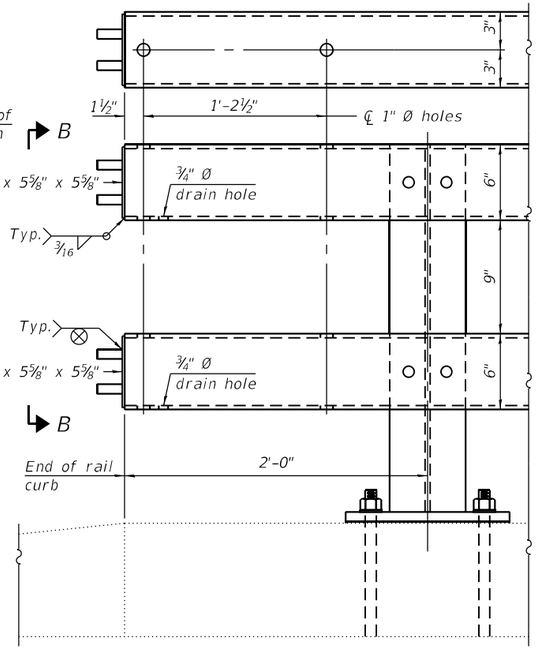
TOP AND BOTTOM RAIL SPLICE ELEVATION



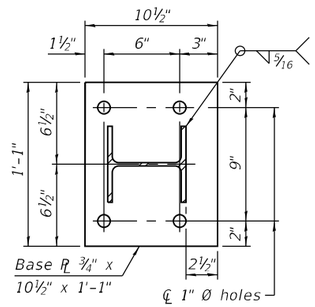
SECTION C-C



VIEW B-B



END OF RAIL DETAILS



SECTION D-D

RAILING CRITERIA

MASH 2016 Test Level	4
Railing Weight (plf)	75
Min f'c (psi)	4,500
Post Spacing Range	6'-8" - 10'-0"

R-42 10-12-2021

SPLICE DIMENSIONS

Location	T	A	B	C
All locs. not over exp. jts.	0	½"	1'-6"	2'-9½"
Over Strip Seal Jt.	≤4"	2½"	1'-8"	3'-1½"
Over Finger or Modular Jt.	≤9½"	5½"	1'-10¾"	3'-7¼"
Over Finger or Modular Jt.	≤15"	8¼"	2'-1½"	4'-0¾"

T = ; total movement along centerline of roadway at expansion joint.

BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Steel Railing, Type CO-10	Foot	60

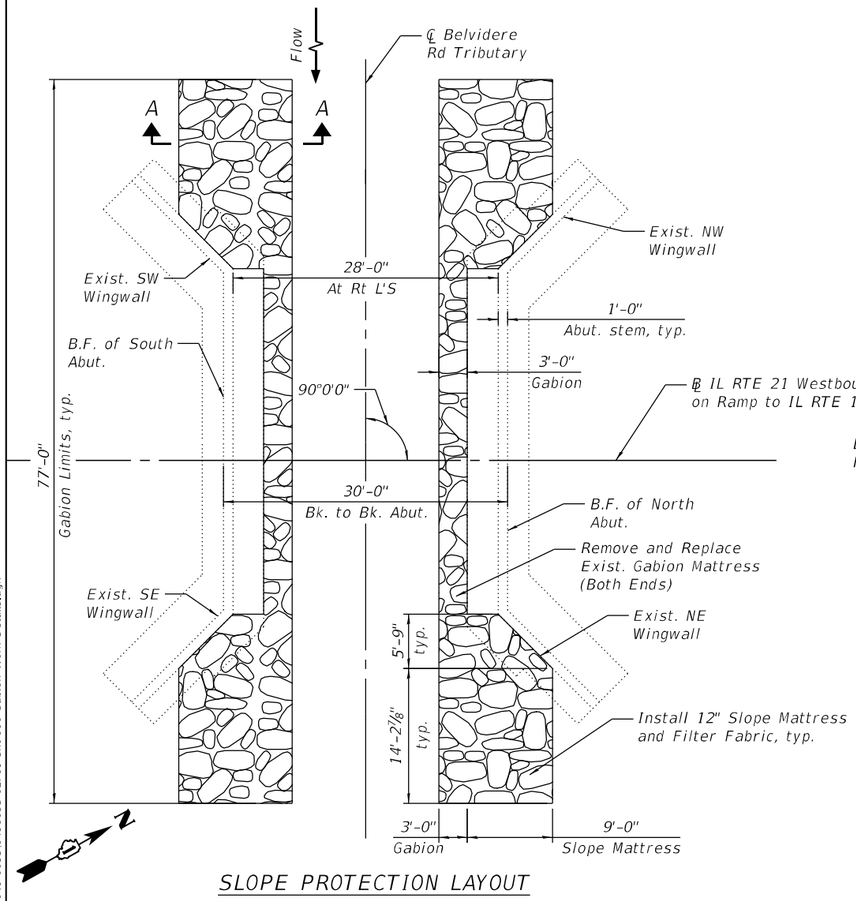
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		CHECKED - MAF	REVISED -
	PLOT SCALE =	DRAWN - ME	REVISED -
	PLOT DATE =	CHECKED - MAF	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

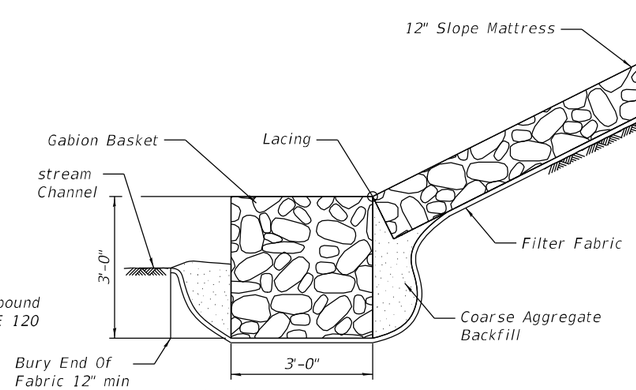
STEEL RAILING, TYPE CO-10
STRUCTURE NO. 049-0053
SHEET SE-05 OF SE-09 SHEETS

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0333	2021-071-BDR	LAKE	131	116
		CONTRACT NO. 62P09		
		ILLINOIS	FED. AID PROJECT	

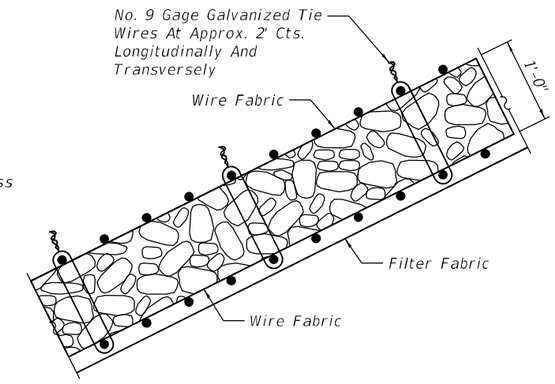
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SLOPE PROTECTION LAYOUT



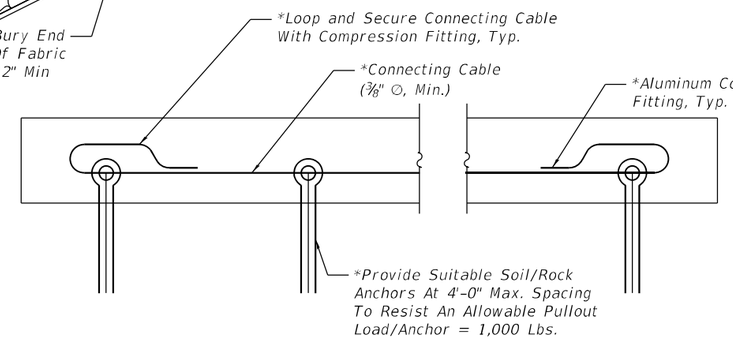
SECTION A-A



SLOPE PROTECTION LAYOUT

BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Filter Fabric	Sq Yd	209
Gabions	Cu Yd	52
Slope Mattress 12"	Sq Yd	58
Gabion Removal	Cu Yd	52

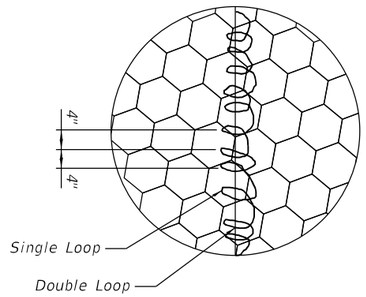


*Included in The Cost of Slope Mattress 12"

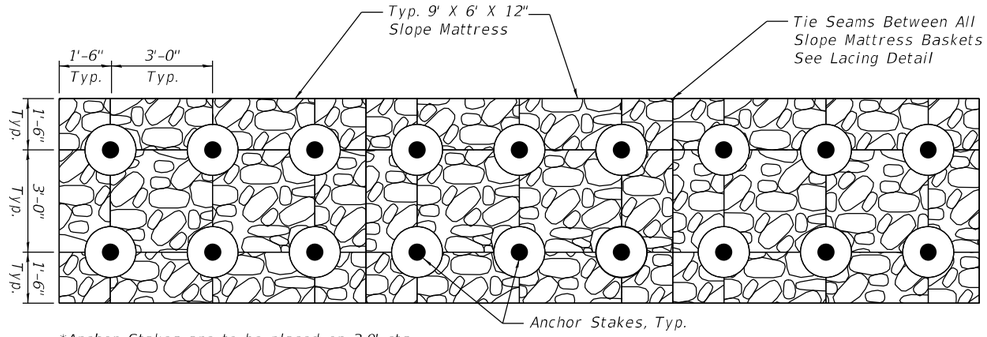
SLOPE MATTRESS SECURING DETAIL

NOTES:

1. Quantities and limits shown are estimated for bidding purpose only. The actual areas to be repaired and the type(s) of repairs to be used will be determined by the engineer in the field at the time of construction.
2. Slope Mattress assembly, installation, filling and lid-closing shall be in accordance with section 284 of the standard specifications.
3. Where a complete Slope Mattress unit cannot be installed as shown on the plans because of space limitations, the basket unit shall be cut, folded and wired together to suit site conditions.
4. All wire Fabric, basket assemblies, and tie wires shall be vinyl coated. all non-aluminum material shall be galvanized prior to vinyl coating.
5. Use Stone Riprap, class A3 in fill areas under the slope mattress as needed to bring the slope mattress to finish grade. the filter fabric shall be placed below this riprap.
6. Edge of water varies as water elevation fluctuates and the course of the river changes. no additional easements will be required.
7. Gabions (3 ft x 3 ft) are to be placed along the upstream and downstream edge of all slope mattress installations.



LACING DETAIL



*Anchor Stakes are to be placed on 3.0' cts. with an arrangement as shown above.

TYPICAL ANCHOR STAKE LAYOUT DETAIL

MODEL: Default
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8/28/2023 12:33:34 PM

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	CHECKED - MAF	REVISED -	
PLOT SCALE =	DRAWN - ME	REVISED -	
PLOT DATE =	CHECKED - MAF	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GABION MATTRESS DETAILS
STRUCTURE NUMBER 049-0053
SHEET SE-06 OF SE-09 SHEETS

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0333	2021-071-BDR	LAKE	131	117
		CONTRACT NO. 62P09		
	ILLINOIS	FED. AID PROJECT		

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
342	(G&121)-RS-1	LAKE	66	13
STA. 344+92	TO STA. 361+00			
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

* RELOCATED FROM STAGE I
PAY ITEMS: SAND MODULE IMPACT ATTENUATOR &
RELOCATE TEMP. CONC. BARRIER

* SAND MODULE IMPACT ATTENUATOR, 12 EACH

* TEMPORARY CONC. BARRIER TERMINAL SECTION, 1 EACH

S.N. 049-0053

* TEMPORARY CONC. BARRIER, 120 FT.

SOLID WHITE EDGE LINE
TEMP. PAVT. MKG., LINE 4"

SOLID YELLOW EDGE LINE
TEMP. PAVT. MKG., LINE 4"

S.N. 049-0044

S.N. 049-0045

SMALL STREAM

RAMP "A"

RAMP "B"

RAMP "C"

RAMP "D"

BRIDGE WORK AHEAD

ROAD CONSTRUCTION AHEAD

ILL. 21

MATCHLINE STA. 345+00

MATCHLINE STA. 360+00

LEGEND

- TRAFFIC FLOW
- TEMPORARY WIDENING
- SIGN
- DRUM WITH STEADY BURNING MONODIRECTION LIGHT @ 50' CTS, 25' CTS IN TAPERS AND ON CURVES
- VERTICAL PANEL WITH STEADY BURNING LIGHT @ 50' CTS, 25' CTS IN TAPERS AND ON CURVES
- WORK AREA

FOR INFORMATION ONLY

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

ILL. 120 (ALMOND RD. TO GREENLEAF ST.)
OVER SMALL STREAM
S.N. 049-0052 AND S.N. 049-0053
STAGE II PLAN

SCALE: VERT. 1" = 50'
HORIZ.
DATE 1/17/01

DRAWN BY
CHECKED BY

MODEL: Default
FILE NAME: Q:\Engineering\LiveProjects\20005_IDOT DUR\WO 39 - IL 120 at IL 21\CADD\CADD Sheets\Structural\SN 049-0053\049053-62P09-Sht-007-REF1.dgn

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PLOT SCALE =	DRAWN - ME	REVISED -	
PLOT DATE =	CHECKED - MAF	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

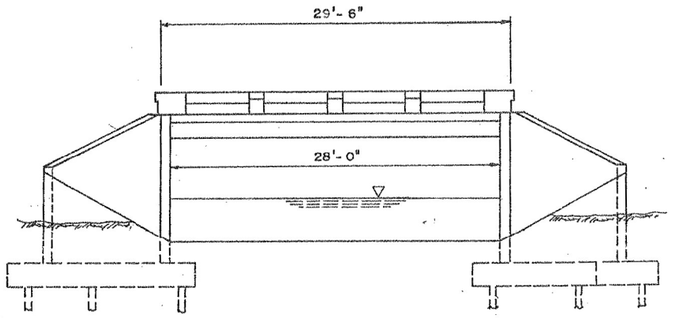
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STRUCTURE NUMBER 049-0053
SHEET SE-07 OF SE-09 SHEETS

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0333	2021-071-BDR	LAKE	131	118
		CONTRACT NO. 62P09		
		ILLINOIS	FED. AID PROJECT	

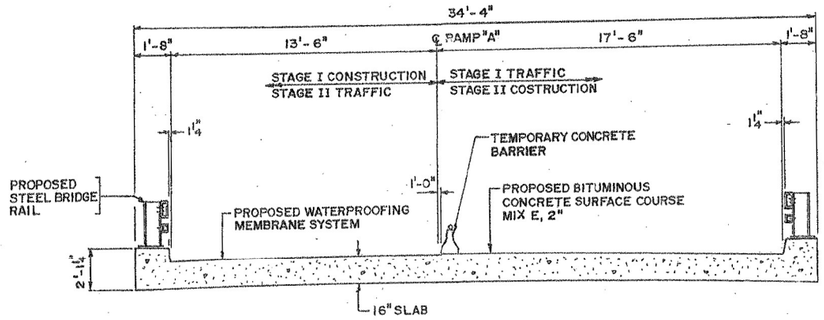
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SHEET S1 OF S2

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
342	(GB12)I-RS-1	LAKE	66	40
STA.	TO STA.			
FED. ROAD DIST NO 7	ILLINOIS	FED. AID PROJECT		



ELEVATION

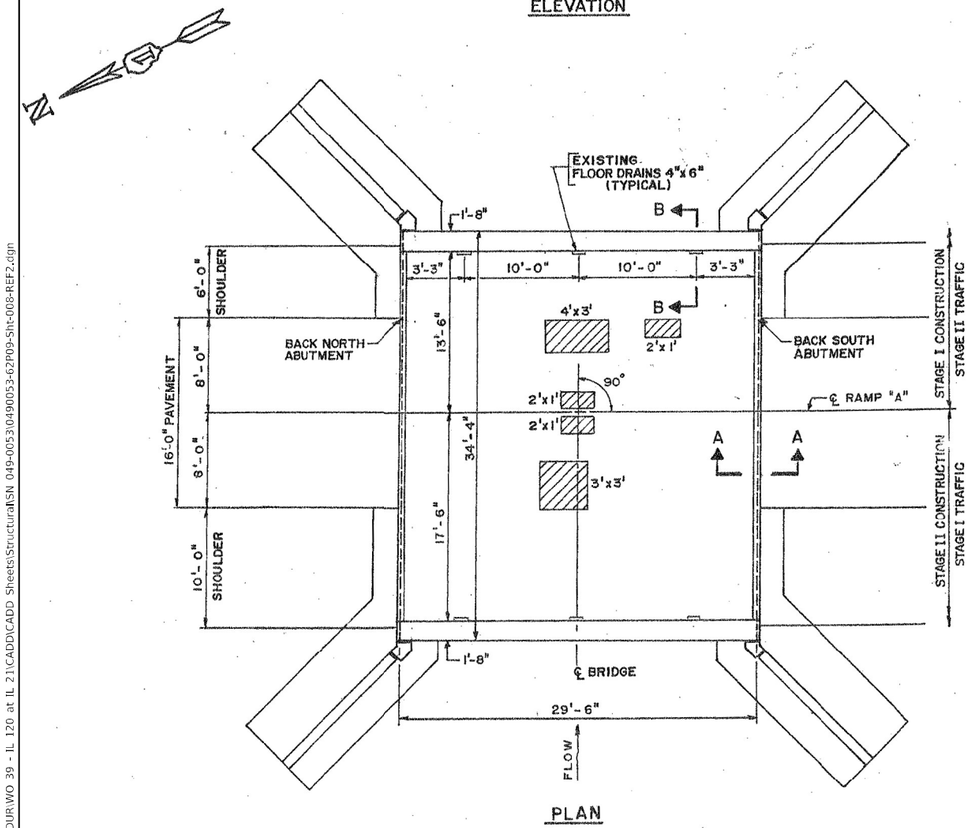


CROSS SECTION
(LOOKING SOUTH)

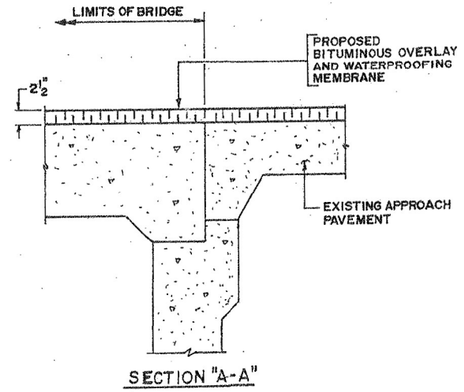
TOTAL - BILL OF MATERIAL

ITEM	UNIT	QUANTITY
WATERPROOFING MEMBRANE SYSTEM	SQ.YDS	102
POLYMERIZED BITUMINOUS CONCRETE, SURFACE COURSE, SUPERPAVE, MIX "E" N90	TON	14
PLUG EXISTING DECK DRAINS	EACH	6
RELOCATING NAME PLATES	EACH	1
STEEL BRIDGE RAIL	FOOT	59
HANDRAIL CONCRETE REMOVAL	FOOT	59
DECK SLAB REPAIR (PARTIAL DEPTH)	SQ.YDS	3

DATE OF SURVEY MAY, 1999



PLAN



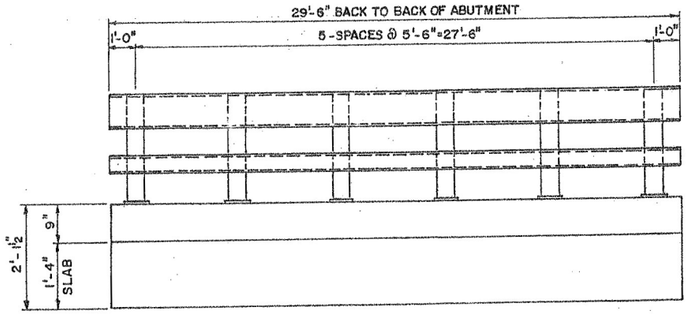
SECTION "A-A"

NOTES:

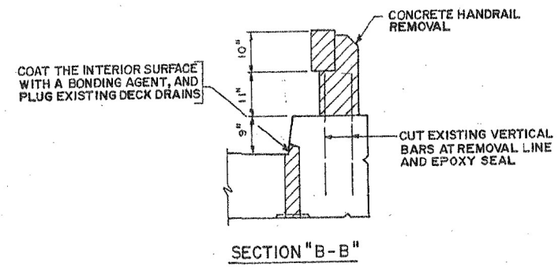
PLAN DIMENSIONS AND DETAILS RELATIVE TO THE EXISTING STRUCTURE HAVE BEEN TAKEN FROM EXISTING PLANS AND ARE SUBJECT TO NOMINAL CONSTRUCTION VARIATIONS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY SUCH DIMENSION AND DETAILS IN THE FIELD AND MAKE NECESSARY APPROVED ADJUSTMENTS PRIOR TO CONSTRUCTION OR ORDERING OF MATERIALS. SUCH VARIATION SHALL NOT BE CAUSE FOR ADDITIONAL COMPENSATION FOR A CHANGE IN THE SCOPE OF WORK, HOWEVER, THE UNIT BID PRICE FOR THE WORK.

LEGEND:

DECK SLAB REPAIR PARTIAL DEPTH



ELEVATION
BRIDGE RAIL POST SPACINGS



SECTION "B-B"

REVISIONS	
NAME	DATE
Thomas M.Slattery	5/1999

ILLINOIS DEPARTMENT OF TRANSPORTATION

NW RAMP IL 120 AND IL 21
OVER SMALL STREAM
PLAN, ELEVATION, CROSS SECTION AND DETAILS

SCALE: VERT. S.N.049-0053 HORIZ. DRAWN BY MVT
DATE FEBRUARY, 1999 CHECKED BY TMS

FOR INFORMATION ONLY

Accurate GROUP, INC.	USER NAME =	DESIGNED - ME	REVISED -
		CHECKED - MAF	REVISED -
	PLOT SCALE =	DRAWN - ME	REVISED -
	PLOT DATE =	CHECKED - MAF	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

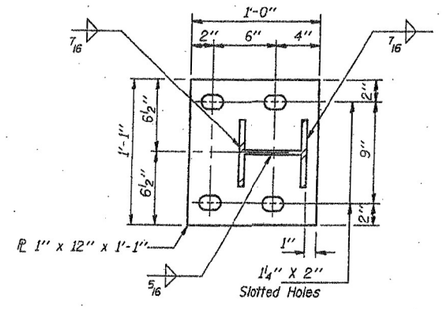
EXISTING PLANS (SHEET 2 OF 3)
STRUCTURE NUMBER 049-0053
SHEET SE-08 OF SE-09 SHEETS

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0333	2021-071-BDR	LAKE	131	119
		CONTRACT NO. 62P09		
	ILLINOIS	FED. AID PROJECT		

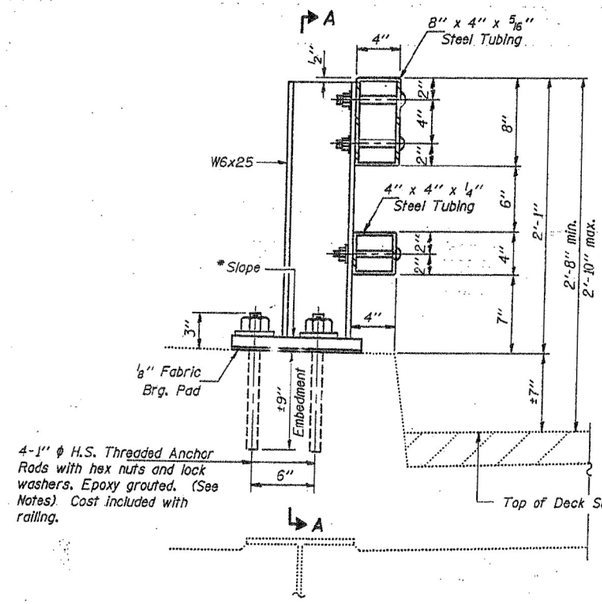
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F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
342	*	LAKE	66	41
STA.		TO STA.		

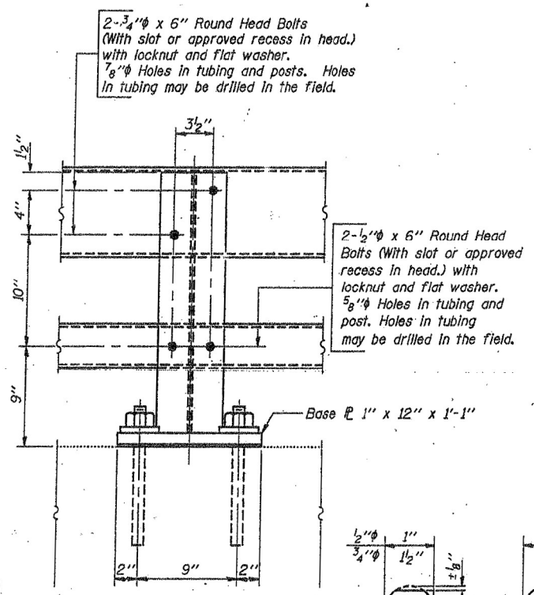
* (G&12)1-RS-1



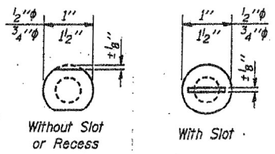
BASE PLATE DETAIL



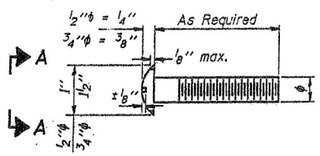
SECTION AT RAIL POST



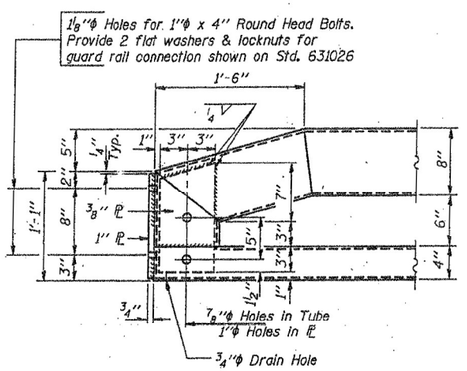
SECTION A-C

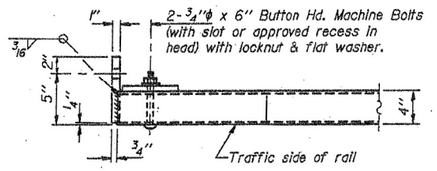


VIEW A-A

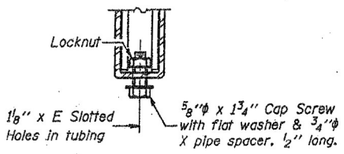


DETAIL OF ½"ϕ & ¾"ϕ ROUND HEAD BOLTS

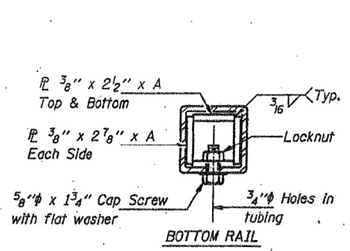




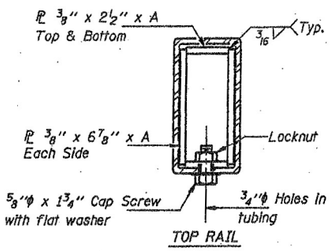
END OF RAIL DETAILS



RAIL SPLICE CONNECTION AT EXPANSION JT.



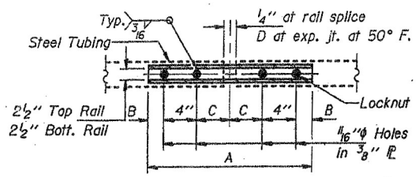
BOTTOM RAIL



TOP RAIL

SECTIONS AT RAIL SPLICE

(6'-3" Maximum Post Spacing)



PLAN-BOTT. SPLICE PL TYPICAL

NOTES

Hollow structural steel tubing shall conform to the requirements of ASTM designation A 500, Grade B, Structural Steel Tubing and shall meet the longitudinal CVN requirements of 15 ft-lbs at 0°F.

All other steel shapes and plates shall conform to the requirements of AASHTO M 270 Grade 36 except posts shall conform to AASHTO M 270, Grade 50.

Bolts, cap screws and nuts shall conform to the requirements of ASTM designation A 307 except that threaded rods, nuts and washers, shall conform to AASHTO M 164.

All bolts, nuts, cap screws, washers and lock washers shall be galvanized according to AASHTO M 232.

All posts, railing, rail splices and anchor rods shall be galvanized after shop fabrication according to AASHTO M 111 and ASTM A 385. Galvanized rail shall not be painted.

Railing shall be according to Section 509 of the Standard Specifications, except as noted, and will be paid for at the contract unit price per foot for STEEL BRIDGE RAIL.

All field drilled holes shall be coated with an approved zinc rich paint before erection.

Posts shall not be located closer than 1'-3" to an existing bridge expansion joint or end of bridge.

STEEL BRIDGE RAIL expansion joint shall be provided between any two (2) posts which span a bridge expansion joint. Bolts located at expansion joint shall be provided with locknuts and shall be tightened only to a point that will allow rolling movement.

Provide one ⅛" and two 1/16" steel shims for 25% of the posts. Shims shall be similar to base plates in size and holes.

Expansion joint width shall be "D" at 50° F and shall be adjusted for other temperatures according to Article 503.10(c) of the Standard Specifications.

The Contractor shall use the capsule or the adhesive cartridge type anchor rods that have been previously tested and given a prior approval by the Department. The Contractor shall install these anchor rods in pre-drilled holes according to the manufacturer's recommendations and procedures.

The capsule or the adhesive cartridge shall be a sealed glass capsule or a sealed glass adhesive cartridge containing premeasured amounts of the adhesive chemical.

Nuts for 1"ϕ threaded anchor rods connecting the base plate to the concrete shall be tightened to a snug fit and given an additional ⅛ turn.

BILL OF MATERIAL

Item	Unit	Quantity
Steel Bridge Rail	Foot	59

SPLICE DIMENSIONS

T	D	A	B	C	E
≤4"	2½"	1'-8"	2"	4"	2½"
>4" ≤6½"	3¾"	2'-0"	2½"	5½"	3½"
>6½" ≤9"	5"	2'-4"	3½"	6½"	9"
>9" ≤13"	7"	2'-10"	4½"	8½"	11"
Rail Splice	¼"	1'-8"	2"	4"	—

T = Total movement at expansion joint as shown on the design plans.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

NW RAMP IL 120 & IL 21
OVER SMALL STREAM
STEEL BRIDGE RAIL-CURB MOUNTED
TYPE 2399
S.N. 049-0053

SCALE: NONE — DRAWN BY CADD
DATE 12/01/98 — CHECKED BY TMS

FOR INFORMATION ONLY

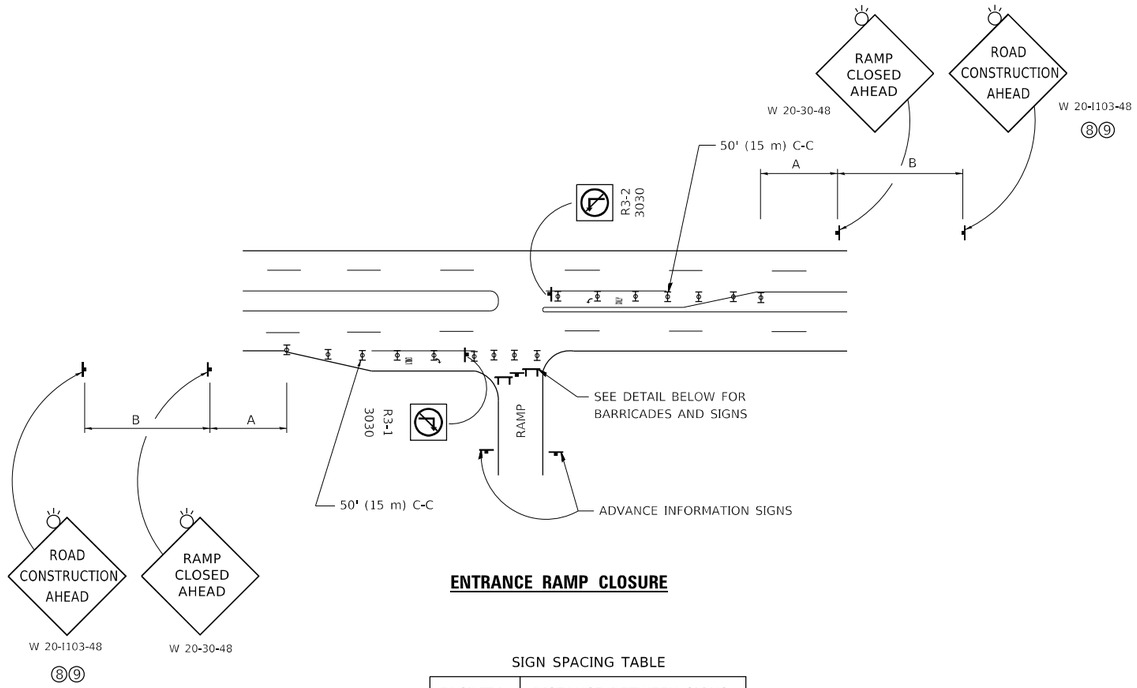
R-31 4-30-97

Accurate GROUP, INC.	USER NAME =	DESIGNED - ME	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
		CHECKED - MAF	REVISED -	
	PLOT SCALE =	DRAWN - ME	REVISED -	
	PLOT DATE =	CHECKED - MAF	REVISED -	

EXISTING PLANS (SHEET 3 OF 3)
STRUCTURE NUMBER 049-0053
SHEET SE-09 OF SE-09 SHEETS

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0333	2021-071-BDR	LAKE	131	120
		CONTRACT NO. 62P09		
	ILLINOIS	FED. AID PROJECT		

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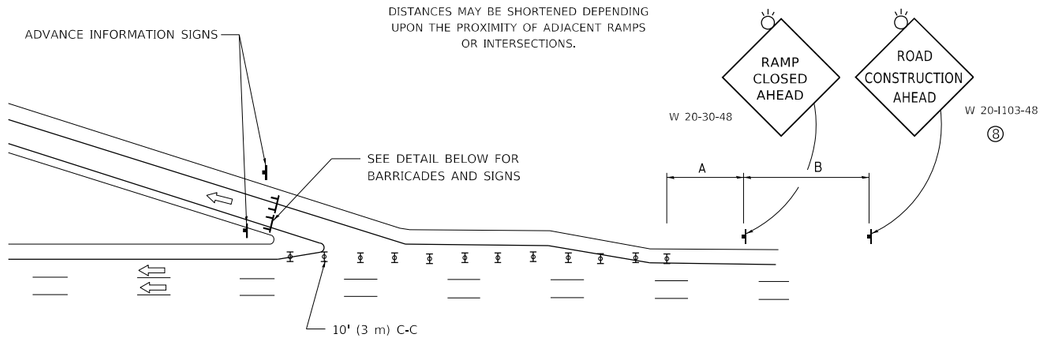


ENTRANCE RAMP CLOSURE

SIGN SPACING TABLE

FACILITY	DISTANCE BETWEEN SIGNS	
	A	B
EXPRESSWAY >24 HOURS	1000' (300 m)	1500' (450 m)
EXPRESSWAY ≤24 HOURS	500' (150 m)	500' (150 m)
ARTERIAL 55 MPH	500' (150 m)	500' (150 m)
ARTERIAL 50-45 MPH	350' (100 m)	350' (100 m)
ARTERIAL <45 MPH	200' (60 m)	200' (60 m)

DISTANCES MAY BE SHORTENED DEPENDING UPON THE PROXIMITY OF ADJACENT RAMPS OR INTERSECTIONS.

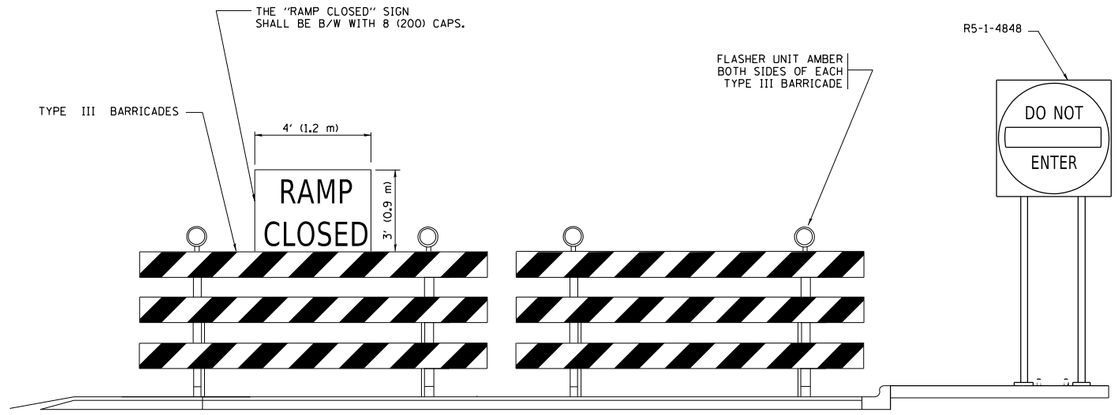


EXIT RAMP CLOSURE

SYMBOLS

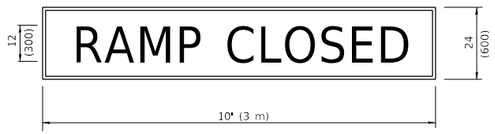
TYPE II BARRICADE OR DRUM

TYPE III BARRICADE WITH 2 FLASHING LIGHTS



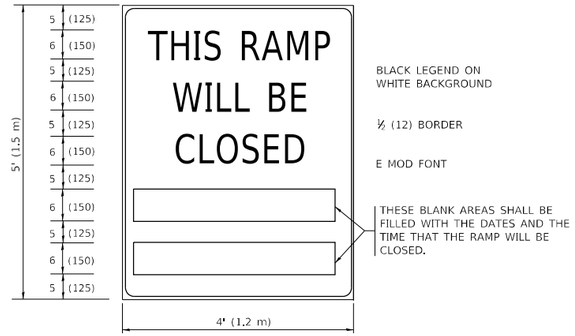
DETAIL FOR REQUIRED BARRICADES & SIGNS

RAMP CLOSURE ADVANCE WARNING SIGN



BLACK LEGEND ON ORANGE BACKGROUND MOUNTED DIAGONALLY
E MOD FONT
1 (25) BORDER
THESE SIGNS ARE REQUIRED ON ALL THE EXIT GUIDE SIGNS FOR EXIT RAMPS THAT WILL BE CLOSED FOR MORE THAN FOUR (4) CONSECUTIVE DAYS.

RAMP CLOSURE ADVANCE INFORMATION SIGN



BLACK LEGEND ON WHITE BACKGROUND

½ (12) BORDER

E MOD FONT

THESE BLANK AREAS SHALL BE FILLED WITH THE DATES AND THE TIME THAT THE RAMP WILL BE CLOSED.

THESE SIGNS ARE REQUIRED ON BOTH SIDES OF THE RAMP, MINIMUM OF 1 WEEK IN ADVANCE OF THE CLOSURE.

THESE SIGNS SHALL BE FABRICATED AND PAID FOR ACCORDING TO THE TEMPORARY INFORMATION SIGNING SPECIAL PROVISION

GENERAL NOTES:

1. CONES MAY BE SUBSTITUTED FOR DRUMS OR TYPE II BARRICADES DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 28 (700) HIGH.
2. VERTICAL BARRICADES SHALL NOT BE USED FOR RAMP CLOSURES.
3. A FLAGGER SHALL BE POSITIONED AT EACH CLOSED RAMP THAT IS OPEN TO CONSTRUCTION VEHICLES, PRECEEDED BY A W20-7 FLAGGER WARNING SIGN.
4. ALL ROUTE MARKERS AND TRAILBLAZER ASSEMBLIES WHICH DIRECT MOTORISTS TO A CLOSED ENTRANCE RAMP SHALL BE COVERED WHEN THE RAMP IS CLOSED FOR MORE THAN FOUR (4) DAYS.
5. THE SIGNING AND BARRICADING WHICH IS REQUIRED BY THIS DETAIL SHALL BE INCLUDED IN THE COST OF TRAFFIC CONTROL AND PROTECTION (EXPRESSWAYS).
6. AUTHORIZATION FROM THE DISTRICT'S BUREAU OF TRAFFIC IS REQUIRED FOR ALL RAMP CLOSURES.
7. THE RAMP CLOSURE ADVANCE INFORMATION SIGNS SHALL BE ERECTED IF THE CLOSURE TIME EXCEEDS TWENTY-FOUR (24) HOURS. ADDITIONAL ADVANCE WARNING SIGNS ON EXIT GUIDE SIGNING WILL BE REQUIRED FOR EXIT RAMP CLOSURES THAT EXCEED FOUR (4) DAYS IN LENGTH
8. ROAD CONSTRUCTION AHEAD SIGNS MAY BE OMITTED WHEN THIS DETAIL IS USED IN CONJUNCTION WITH OTHER TRAFFIC CONTROL THAT ALREADY INCLUDES A ROAD CONSTRUCTION AHEAD SIGN.
9. ARTERIAL ROAD CONSTRUCTION AHEAD SIGNS SHALL BE INSTALLED ON THE LEFT SIDE OF TRAFFIC IF THE MEDIAN IS MORE THAN 10 FT WIDE.

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

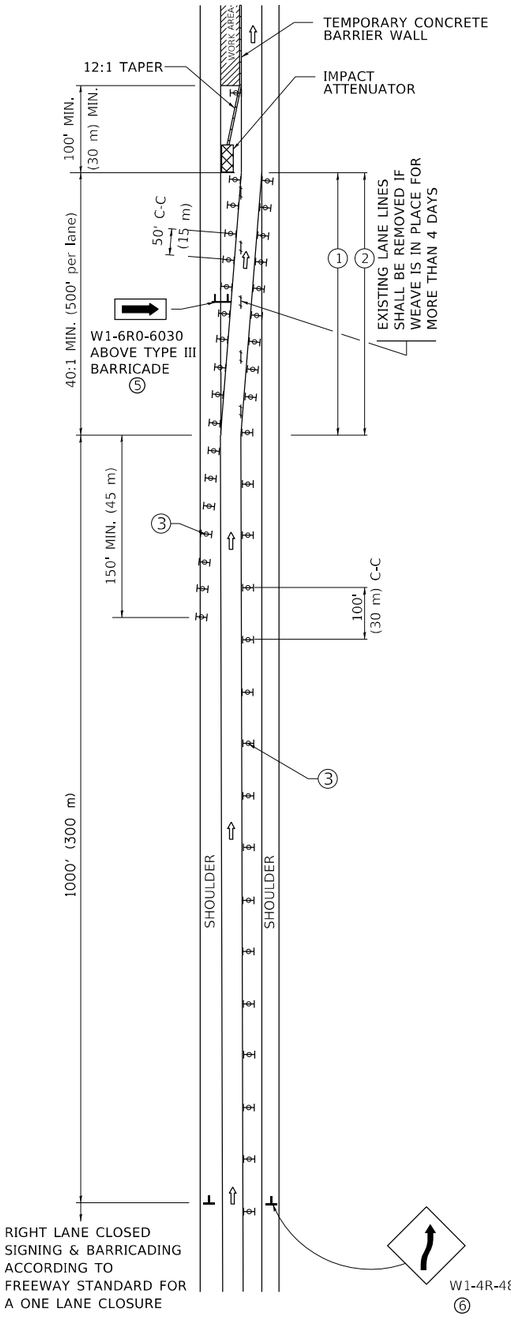
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	DRAWN -	REVISED - S.P.B._12-09			
PLOT SCALE = 50.0000 ' / in.	CHECKED -	REVISED - M.D._06-13			
PLOT DATE = 3/4/2019	DATE - 02-83	REVISED - M.D._01-18		SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.	

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0333	2021-071-BDR	LAKE	131	121
	TC-08	CONTRACT NO. 62P09		
	ILLINOIS FED. AID PROJECT			

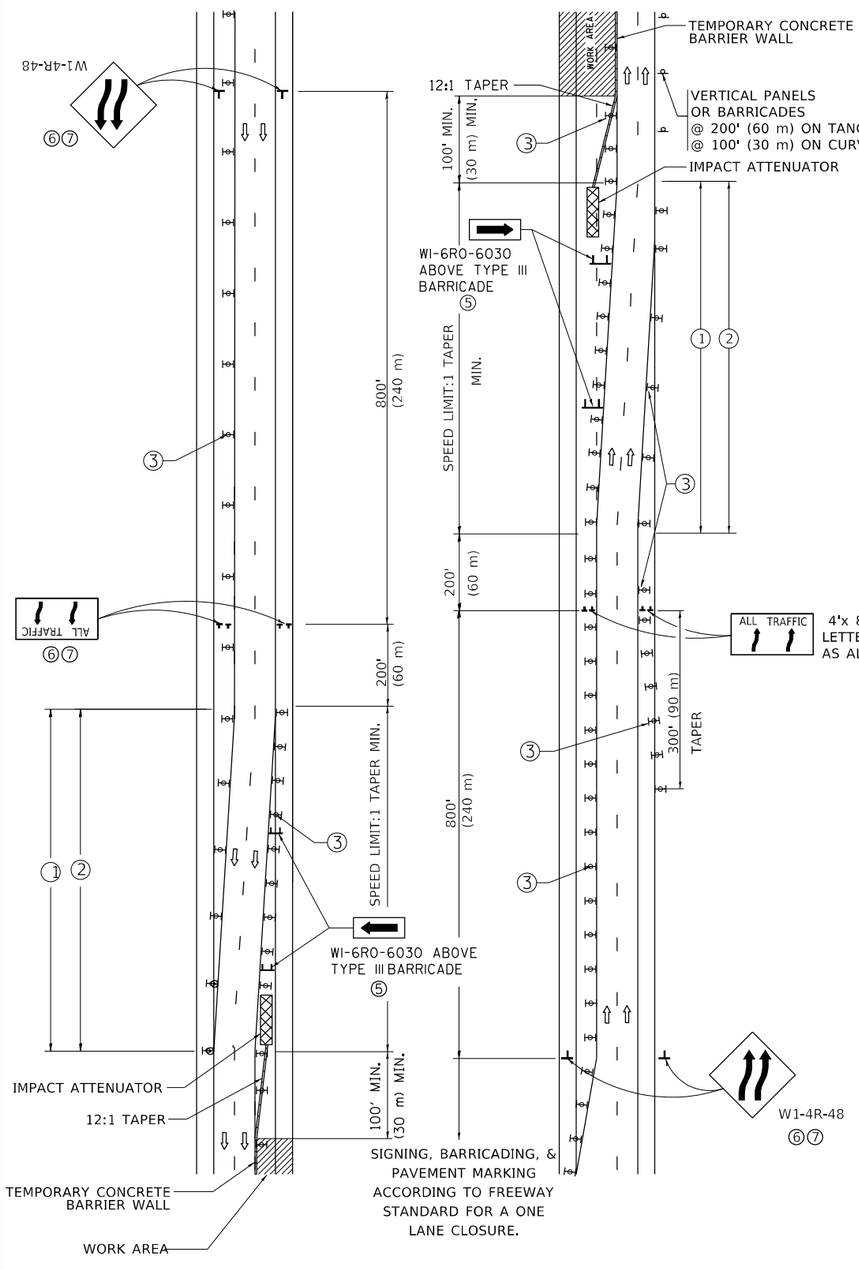
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tc08.dgn 3/4/2019 10:22:32 AM User=footemj

SINGLE LANE WEAVE



MULTI–LANE WEAVE



GENERAL NOTES:

① EXISTING CONFLICTING PAVEMENT MARKING LINES SHALL BE REMOVED. PAVEMENT MARKING REMOVAL SHALL NOT BE REQUIRED FOR SINGLE LANE WEAVES UNDER 4 DAYS IN DURATION.

② CONTINOUS REFLECTIVE TEMPORARY PAVEMENT MARKING TAPE SHALL BE PLACED THROUGHOUT THE TAPER AND FOR 300' (90 m) ALONG SIDE THE WORK AREA WHERE THE CLOSURE TIME IS GREATER THAN FOURTEEN DAYS. THE LEFT EDGE LINE SHALL BE YELLOW AND THE RIGHT EDGE LINE SHALL BE WHITE. FOR MULTI-LANE WEAVES LANE LINES SHALL BE 5 INCH, 10'-30' (3 m-9 m) SKIP DASH, WHITE.

③ PLASTIC DRUMS WITH STEADY BURN LIGHTS AT 50' (15 m) C-C SPACING IN TAPERS AND 100' (30 m) C-C SPACING IN TANGENTS.

④ ALL SIGNS SHALL BE POST MOUNTED IF THE CLOSURE TIME EXCEEDS FOUR DAYS.

⑤ TYPE III BARRICADES MAY BE OMMITTED FOR SINGLE-LANE WEAVES UNDER 24-HOURS IN DURATION. W1-6 SIGNS WILL STILL BE REQUIRED. IF THE WIDTH OF OFFSET IS LESS THAN 6' THEN THE TYPE III BARRICADE WITH ATTACHED ARROW SIGN PANEL CAN BE ELIMINATED IN THE TAPER AREAS.

⑥ WHEN THE LENGTH OF THE SHIFTED SEGMENT (DISTANCE BETWEEN WEAVE POINTS) IS LESS THAN 1500', DOUBLE REVERSE CURVE SIGNS (W24-1) SHOULD BE USED INSTEAD OF THE REVERSE CURVE (W1-4) SIGNS. ARROWS ON THE 4'X8' "ALL TRAFFIC" SIGNS SHALL BE THE SAME SHAPE.

⑦ THE NUMBER OF ARROWS ON THESE SIGNS SHALL MATCH THE NUMBER OF LANES OPEN TO TRAFFIC.

ALL TRAFFIC 4'x 8' (1.2 m x 2.4 m); 1 (25) BORDER; 10 (250) CAPITAL LETTERS BACKGROUND SHEETING SHALL BE THE SAME AS ALL DIAMOND SHAPED CONSTRUCTION SIGNS.

SYMBOLS

- DIRECTION OF TRAFFIC
- WORK AREA
- SIGN ON PORTABLE OR PERMANENT SUPPORT
- TYPE II BARRICADE OR DRUM WITH MONO-DIRECTIONAL STEADY BURNING LIGHT
- TEMPORARY CONCRETE BARRIER WALL
- IMPACT ATTENUATOR



ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN

USER NAME = footemj	DESIGNED - D.W.S.	REVISED - J.A.F. 02-06	
	DRAWN -	REVISED - S.P.B. 01-07	
PLOT SCALE = 50.0000 ' / in.	CHECKED -	REVISED - S.P.B. 12-09	
PLOT DATE = 3/4/2019	DATE - 02-87	REVISED - M.D. 06-13	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

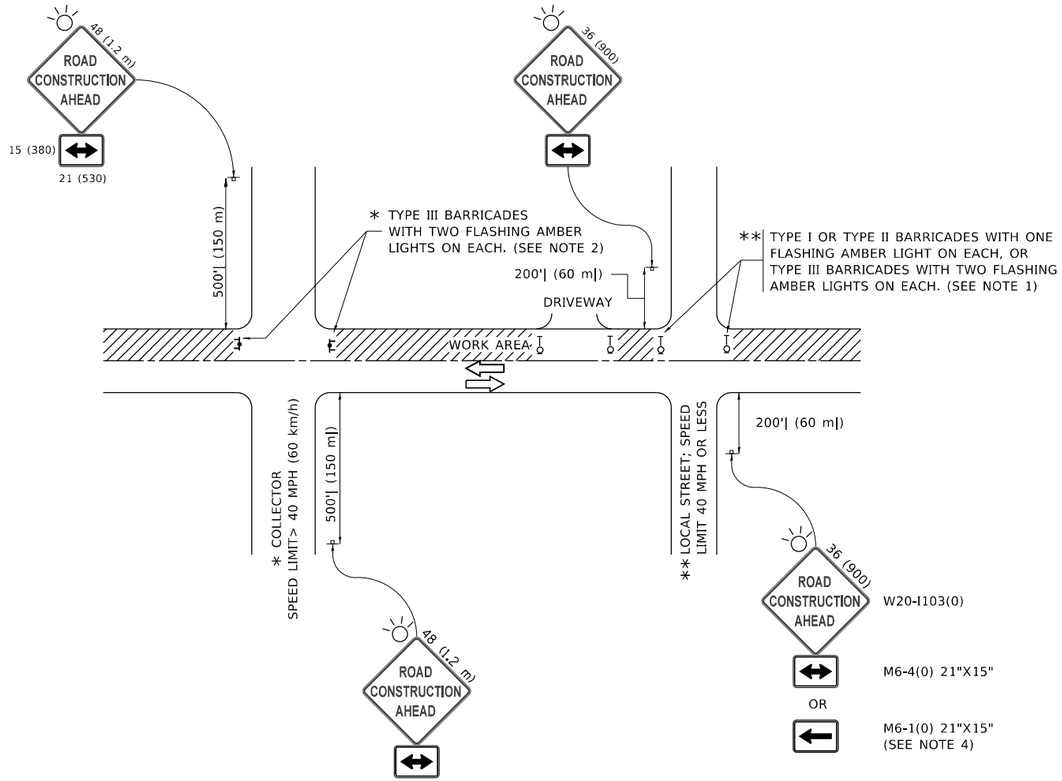
TRAFFIC CONTROL DETAILS FOR FREEWAY SINGLE & MULTI–LANE WEAVE

SCALE: NONE | SHEET 1 OF 1 SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0333	2021-071-BDR	LAKE	131	122
	TC-09	CONTRACT NO. 62P09		
	ILLINOIS FED. AID PROJECT			

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tc09.dgn 3/4/2019 10:24:46 AM User:footemj



NOTES:

1. SIDE ROAD WITH A SPEED LIMIT OF 40 MPH (60 km/h) OR LESS AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
   a) ONE "ROAD CONSTRUCTION AHEAD" SIGN 36 x 36 (900x900) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 200' (60 m) IN ADVANCE OF THE MAIN ROUTE.
   b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE I, TYPE II OR TYPE III BARRICADES, 1/3 OF THE CROSS SECTION OF THE CLOSED PORTION.
2. SIDE ROAD WITH A SPEED LIMIT GREATER THAN 40 MPH (60 km/h) AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
   a) ONE "ROAD CONSTRUCTION AHEAD" SIGN 48 x 48 (1.2 m x 1.2 m) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 500' (150 m) IN ADVANCE OF THE MAIN ROUTE.
   b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE III BARRICADES, 1/2 OF THE CROSS SECTION OF THE CLOSED PORTION.
3. CONES MAY BE SUBSTITUTED FOR BARRICADES OR DRUMS AT HALF THE SPACING DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 28 (710) IN HEIGHT.
4. WHEN THE SIDE ROAD LIES BETWEEN THE BEGINNING OF THE MAINLINE SIGNING AND THE WORK ZONE, A SINGLE HEADED ARROW (M6-1) SHALL BE USED IN LIEU OF THE DOUBLE HEADED ARROW (M6-4).
5. WHEN WORK IS BEING PERFORMED ON A SIDE ROAD OR DRIVEWAY, FOLLOW THE APPLICABLE STANDARD(S). THE DIRECTIONAL ARROW (M6-1 OR M6-4) SHALL BE COVERED OR REMOVED WHEN NO LONGER CONSISTENT WITH THE TRAFFIC CONTROL SET-UP.
6. ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAYS UNLESS OTHERWISE SPECIFIED IN THE PLANS OR BY THE ENGINEER.
7. THE TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS SHALL BE INCLUDED IN THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

All dimensions are in inches (millimeters) unless otherwise shown.

USER NAME = {ootem}	DESIGNED - L.H.A.	REVISED - A. HOUSEH 10-15-96
	DRAWN -	REVISED - T. RAMMACHER 01-06-00
PLOT SCALE = 50.0000 ' / in.	CHECKED -	REVISED - A. SCHUETZE 07-01-13
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

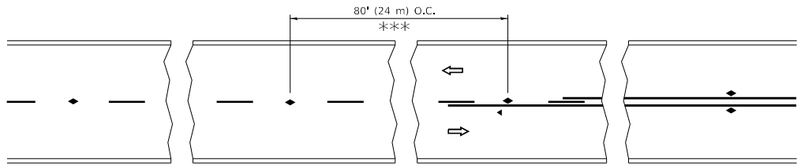
TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS

SCALE: NONE | SHEET 1 OF 1 SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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	TC-10	CONTRACT NO. 62P09		
	ILLINOIS FED. AID PROJECT			

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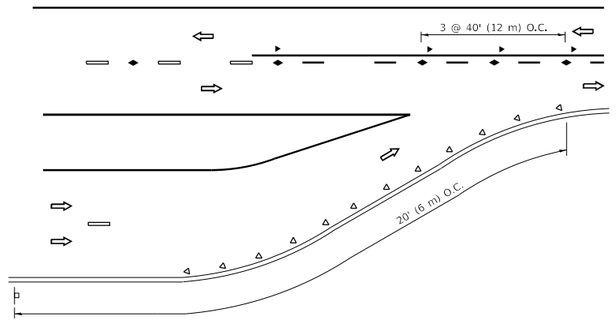
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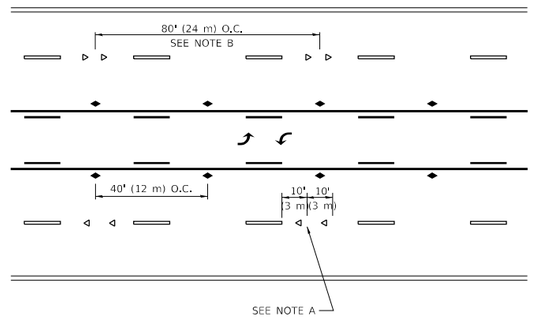
*** REDUCE TO 40' (12 m) O.C. ON CURVES WITH POSTED OR ADVISORY SPEED 45 M.P.H. (70 km/h) OR LESS.

TWO–LANE/TWO–WAY

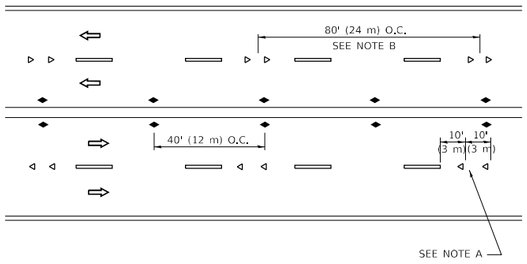
SEE FIGURE 3B-14 MUTCD



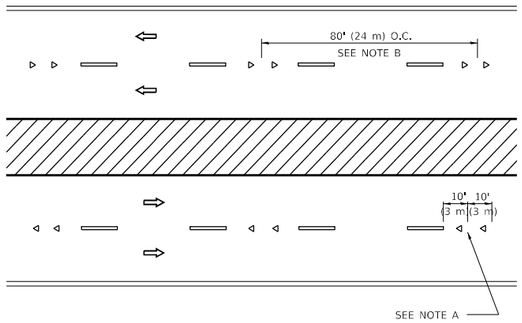
LANE REDUCTION TRANSITION



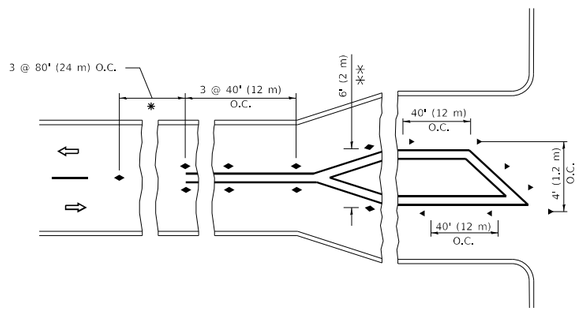
TWO–WAY LEFT TURN

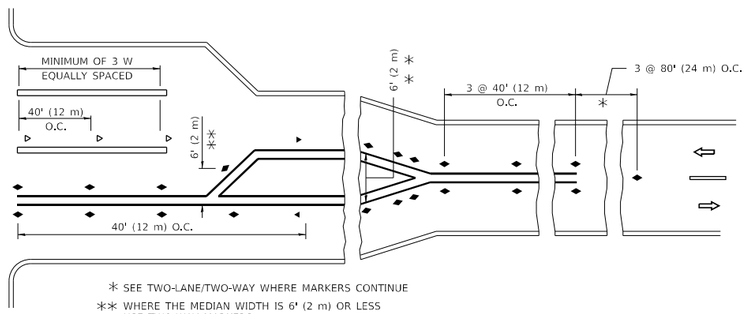


MULTI–LANE/UNDIVIDED



MULTI–LANE/DIVIDED





* SEE TWO-LANE/TWO-WAY WHERE MARKERS CONTINUE

** WHERE THE MEDIAN WIDTH IS 6' (2 m) OR LESS USE TWO-WAY MARKERS.

TURN LANES

GENERAL NOTES

1. MARKERS USED WITH DASHED LINES SHALL BE CENTERED IN THE GAP BETWEEN SEGMENTS.
2. MARKERS USED ADJACENT TO SOLID LINES SHALL BE OFFSET 2 TO 3 (50 TO 75) TOWARD TRAFFIC AS SHOWN.
3. MARKERS THROUGH TANGENTS LESS THAN 500' (150 m) IN LENGTH BETWEEN CURVES SHALL BE INSTALLED AT THE LESSER OF THE TWO CURVE SPACINGS.
4. MARKERS ARE TO BE USED ADJACENT TO BOTH SOLID WHITE LINES IN DUAL LEFT TURN LANES

SYMBOLS

- YELLOW STRIPE
- WHITE STRIPE
- ONE-WAY AMBER MARKER
- ONE-WAY CRYSTAL MARKER (W/O)
- TWO-WAY AMBER MARKER

LANE MARKER NOTES

A. USE DOUBLE LANE LINE MARKERS SPACED AS SHOWN.

B. REDUCE TO 40' (12 m) O.C. ON CURVES WHERE ADVISORY SPEEDS ARE 10 M.P.H (20 km/h) LOWER THAN POSTED SPEEDS.

DESIGN NOTES

1. DOUBLE LANE LINE MARKERS SHALL BE USED UNLESS SPECIFIED OTHERWISE.
2. EXCEPT AS SHOWN ON THE LANE REDUCTION TRANSITION AND FREEWAY EXIT RAMP DETAIL, MARKERS ARE NOT TO BE SPECIFIED ON RIGHT EDGE LINES.
3. THE EXACT MARKER LIMITS, SPACING, AND COLOR SHALL BE INCLUDED IN THE PLANS WHEN STANDARD SPECIFICATIONS ARE NOT BEING USED.
4. MARKERS SHOULD NOT BE USED ALONGSIDE CURBS EXCEPT FOR EXTREMELY SHORT SECTIONS OF CURBS WHERE NOT MORE THAN TWO MARKERS WOULD BE INVOLVED.

All dimensions are in inches (millimeters) unless otherwise shown.

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USER NAME = footemj	DESIGNED -	REVISED - T. RAMMACHER 03-12-99	
	DRAWN -	REVISED - T. RAMMACHER 01-06-00	
PLOT SCALE = 50.0000 ' / in.	CHECKED -	REVISED - C. JUCIUS 09-09-09	
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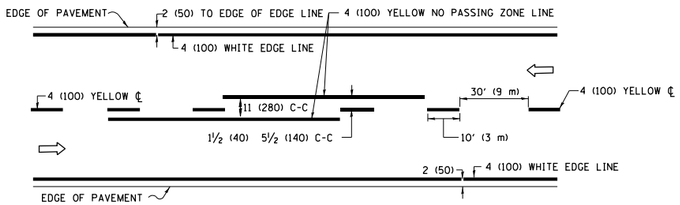
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TYPICAL APPLICATIONS
RAISED REFLECTIVE PAVEMENT MARKERS (SNOW–PLOW RESISTANT)

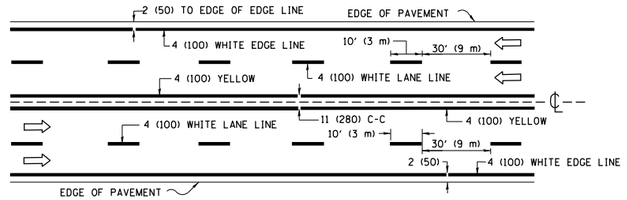
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F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0333	2021-071-BDR	LAKE	131	124
	TC-11	CONTRACT NO. 62P09		
	ILLINOIS	FED. AID PROJECT		

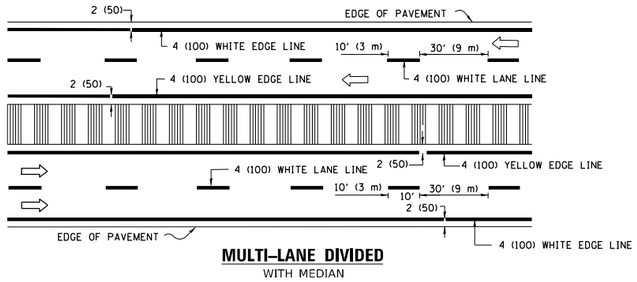
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2–LANE ROADWAY

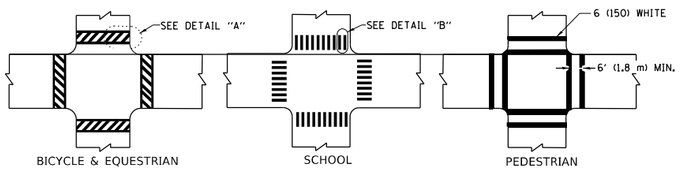


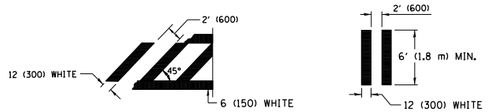
MULTI–LANE UNDIVIDED



MULTI–LANE DIVIDED
WITH MEDIAN

TYPICAL LANE AND EDGE LINE MARKING

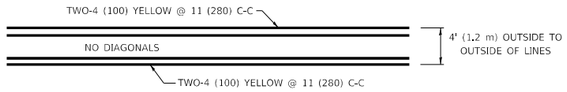




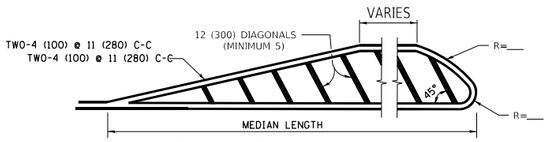
DETAIL "A" **DETAIL "B"**

TYPICAL CROSSWALK MARKING

✳ MARKINGS SHALL BE INSTALLED PARALLEL TO THE CENTERLINE OF THE ROAD WHICH IT CROSSES



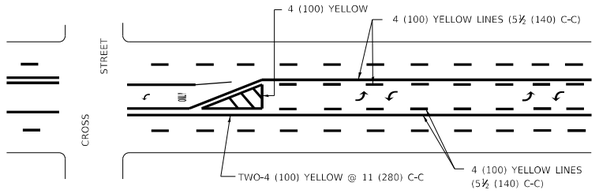
4' (1.2 m) WIDE MEDIANS ONLY



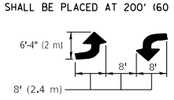
FOR MEDIAN LENGTHS WHERE DIAGONAL SPACING CANNOT BE ATTAINED, USE 5 (FIVE) EQUALLY SPACED DIAGONAL LINES.

DIAGONAL LINE SPACING: 50' (15 m) C-C (LESS THAN 30MPH (50 km/h))
75' (25 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h))
150' (45 m) C-C (MORE THAN 45MPH (70 km/h))

MEDIANS OVER 4' (1.2 m) WIDE

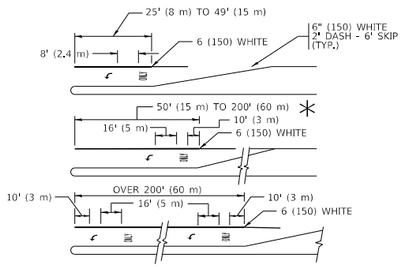


A MINIMUM OF TWO PAIRS OF TURN ARROWS SHALL BE USED, WHITE IN COLOR. ADDITIONAL PAIRS SHALL BE PLACED AT 200' (60 m) TO 300' (90 m) INTERVALS.



MEDIAN WITH TWO–WAY LEFT TURN LANE

TYPICAL PAINTED MEDIAN MARKING

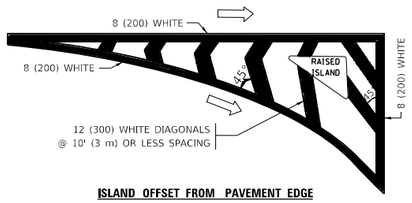


FULL SIZE LETTERS 8' (2.4 m) AND ARROWS SHALL BE USED.
AREA = 15.6 SQ. FT. (1.5 m²) **ONLY** AREA = 20.8 SQ. FT. (1.9 m ²

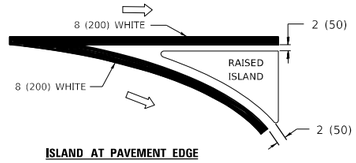
✳ TURN LANES IN EXCESS OF 400' (120 m) IN LENGTH MAY HAVE AN ADDITIONAL SET OF ARROW - "ONLY" INSTALLED MIDWAY BETWEEN THE OTHER TWO SETS OF ARROW - "ONLY".

TYPICAL LEFT (OR RIGHT) TURN LANE

TYPICAL TURN LANE MARKING

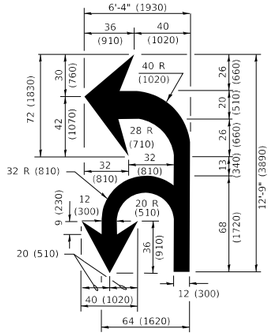


ISLAND OFFSET FROM PAVEMENT EDGE

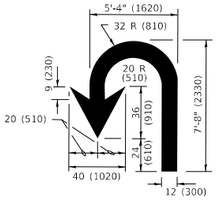


ISLAND AT PAVEMENT EDGE

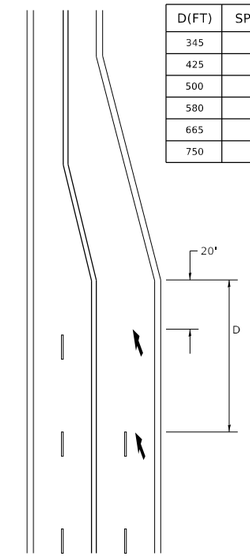
TYPICAL ISLAND MARKING



COMBINATION LEFT AND U–TURN



U–TURN



D(FT)	SPEED LIMIT
345	30
425	35
500	40
580	45
665	50
750	55

LANE REDUCTION TRANSITION

✳ LANE REDUCTION ARROWS REQUIRED AT SPEEDS OF 45 MPH OR GREATER OR WHEN SPECIFIED IN PLANS.

TYPE OF MARKING	WIDTH OF LINE	PATTERN	COLOR	SPACING / REMARKS
CENTERLINE ON 2 LANE PAVEMENT	4 (100)	SKIP-DASH	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE
CENTERLINE ON MULTI-LANE UNDIVIDED PAVEMENT	2 @ 4 (100)	SOLID	YELLOW	11 (280) C-C
NO PASSING ZONE LINES: FOR ONE DIRECTION FOR BOTH DIRECTIONS	4 (100) 2 @ 4 (100)	SOLID SOLID	YELLOW YELLOW	5½ (140) C-C FROM SKIP-DASH CENTERLINE 11 (280) C-C OMIT SKIP-DASH CENTERLINE BETWEEN
LANE LINES	4 (100) 5 (125) ON FREEWAYS	SKIP-DASH SKIP-DASH	WHITE WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE
DOTTED LINES (EXTENSIONS OF CENTER, LANE OR TURN LANE MARKINGS)	SAME AS LINE BEING EXTENDED	SKIP-DASH	SAME AS LINE BEING EXTENDED	2' (600) LINE WITH 6' (1.8 m) SPACE
EDGE LINES	4 (100)	SOLID	YELLOW-LEFT WHITE-RIGHT	OUTLINE MEDIANS IN YELLOW
TURN LANE MARKINGS	6 (150) LINE; FULL SIZE LETTERS & SYMBOLS (8' (2.4m))	SOLID	WHITE	SEE TYPICAL TURN LANE MARKING DETAIL
TWO WAY LEFT TURN MARKING	2 @ 4 (100) EACH DIRECTION 8' (2.4m) LEFT ARROW	SKIP-DASH AND SOLID IN PAIRS	YELLOW WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE FOR SKIP-DASH; 5½ (140) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL
CROSSWALK LINES (PEDESTRIAN) A. DIAGONALS (BIKE & EQUESTRIAN) B. LONGITUDINAL BARS (SCHOOL)	2 @ 6 (150) 12 (300) @ 45° 12 (300) @ 90°	SOLID SOLID SOLID	WHITE WHITE WHITE	NOT LESS THAN 6' (1.8 m) APART 2' (600) APART 2' (600) APART SEE TYPICAL CROSSWALK MARKING DETAILS.
STOP LINES	24 (600)	SOLID	WHITE	PLACE 4' (1.2 m) IN ADVANCE OF AND PARALLEL TO CROSSWALK, IF PRESENT. OTHERWISE, PLACE AT DESIRED STOPPING POINT. PARALLEL TO CROSSROAD CENTERLINE, WHERE POSSIBLE
PAINTED MEDIANS	2 @ 4 (100) WITH 12 (300) DIAGONALS @ 45° NO DIAGONALS USED FOR 4' (1.2 m) WIDE MEDIANS	SOLID	YELLOW: TWO WAY TRAFFIC WHITE: ONE WAY TRAFFIC	11 (280) C-C FOR THE DOUBLE LINE SEE TYPICAL PAINTED MEDIAN MARKING.
GORE MARKING AND CHANNELIZING LINES	8 (200) WITH 12 (300) DIAGONALS @ 45°	SOLID	WHITE	DIAGONALS: 15' (4.5 m) C-C (LESS THAN 30MPH (50 km/h)) 20' (6 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h)) 30' (9 m) C-C (OVER 45MPH (70 km/h))
RAILROAD CROSSING	24 (600) TRANSVERSE LINES: "RR" IS 6' (1.8 m) LETTERS: 16 (400) LINE FOR "X"	SOLID	WHITE	SEE STATE STANDARD 780001 AREA OF: "R"=3.6 SQ. FT. (0.33 m ² EACH "X"=54.0 SQ. FT. (5.0 m ²
SHOULDER DIAGONALS (REQUIRED FOR SHOULDERS ≥ 8')	12 (300) @ 45°	SOLID	WHITE - RIGHT YELLOW - LEFT	50' (15 m) C-C (LESS THAN 30MPH (50 km/h)) 75' (25 m) C-C (30 MPH (50 km/h) TO 45MPH (70 km/h)) 150' (45 m) C-C (OVER 45MPH (70 km/h))
U TURN ARROW	SEE DETAIL	SOLID	WHITE	16.3 SF
2 ARROW COMBINATION LEFT AND U TURN	SEE DETAIL	SOLID	WHITE	30.4 SF

FOR FURTHER DETAILS ON PAVEMENT MARKING REFER TO STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND STATE STANDARD 780001.

All dimensions are in inches (millimeters) unless otherwise shown.

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	DRAWN -	REVISED - C. JUCIUS 07-01-13	
PLOT SCALE = 50.0000 ' / in.	CHECKED -	REVISED - C. JUCIUS 12-21-15	
PLOT DATE = 3/4/2019	DATE - 03-19-90	REVISED - C. JUCIUS 04-12-16	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE
TYPICAL PAVEMENT MARKINGS

SCALE: NONE | SHEET 1 OF 2 SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0333	2021-071-BDR	LAKE	131	125
	TC-13	CONTRACT NO. 62P09		
	ILLINOIS FED. AID PROJECT			

tc13.dgn 3/4/2019 10:34:37 AM User=footemj

TURN BAY ENTRANCE AT START OF LANE CLOSURE TAPER

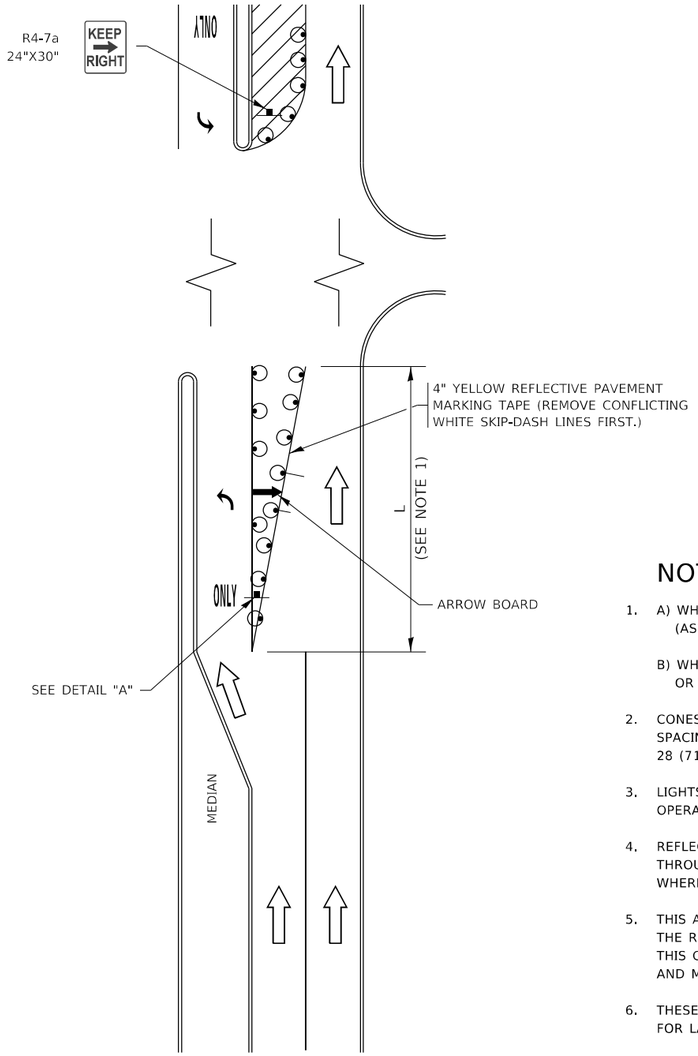


FIGURE 1

LEGEND

- WORK AREA
- LANE OPEN TO TRAFFIC
- ARROW BOARD
- TYPE I OR II BARRICADE OR DRUM WITH STEADY BURN LIGHT
- DRUM WITH STEADY BURN LIGHT
- SIGN ASSEMBLY
- TYPE I OR II CHECK BARRICADE WITH FLASHING LIGHT

NOTES:

1. A) WHEN "L" IS ≤ THE STORAGE LENGTH OF THE TURN LANE (AS SHOWN IN FIG. 1), USE FIGURE 1.

   B) WHEN "L" IS > THE STORAGE LENGTH OF THE TURN LANE OR THE TURN LANE IS WITHIN THE LANE CLOSURE, USE FIGURE 2.

2. CONES MAY BE SUBSTITUTED FOR BARRICADES OR DRUMS AT HALF THE SPACING DURING DAY OPERATIONS, CONES SHALL BE A MINIMUM OF 28 (710) IN HEIGHT.

3. LIGHTS WILL NOT BE REQUIRED ON BARRICADES OR DRUMS FOR DAY OPERATIONS. ALL LIGHTS SHALL BE MONODIRECTIONAL.

4. REFLECTIVE TEMPORARY PAVEMENT MARKINGS SHALL BE PLACED THROUGHOUT THE BARRICADED AREAS OF EACH TURN BAY AS SHOWN WHERE THE CLOSURE TIME IS GREATER THAN FOURTEEN (14) DAYS.

5. THIS APPLICATION ALSO APPLIES WHEN WORK IS BEING PERFORMED IN THE RIGHT LANE(S) AND THE RIGHT TURN BAY IS TO REMAIN OPEN. UNDER THIS CONDITION, "RIGHT TURN LANE" R3-I100R 24 x 24 (600 x 600) AND M6-2R 21 x 15 (530 x 380) SHALL BE USED.

6. THESE CONTROLS SHALL SUPPLEMENT MAINLINE TRAFFIC CONTROL FOR LANE CLOSURES.

7. THE SIGNS SHALL BE MOUNTED ABOVE THE BARRICADES/DRUMS ON SEPARATE SIGN SUPPORTS THAT MEET NCHRP 350 OR MASH PREQUIREMENTS.

8. TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC) SHALL BE INCLUDED IN THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

TURN BAY ENTRANCE WITHIN A LANE CLOSURE

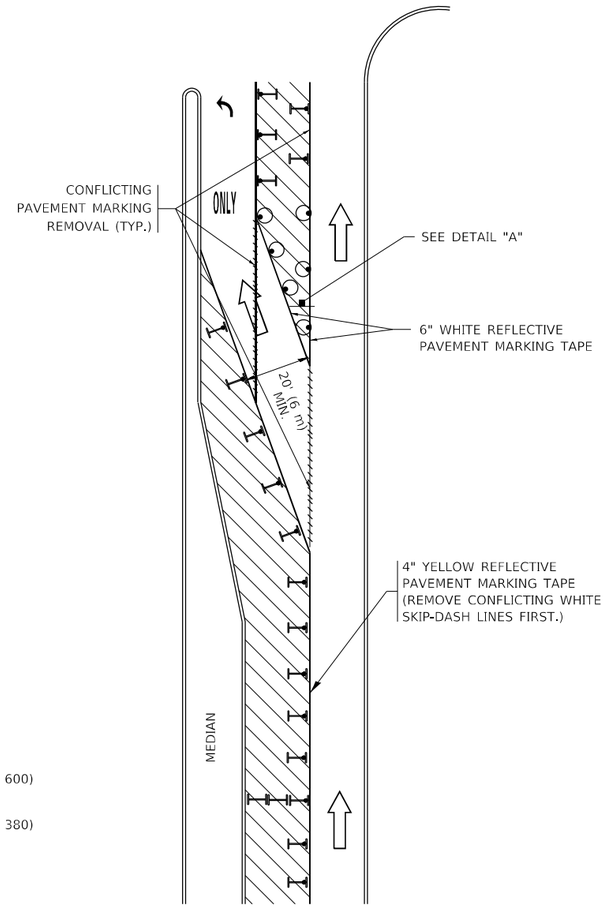
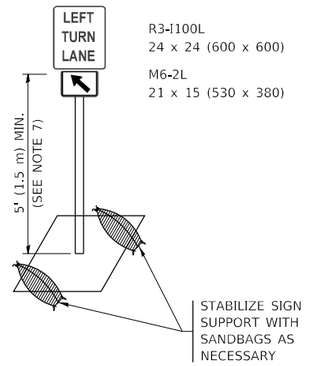


FIGURE 2



DETAIL A

All dimensions are in inches (millimeters) unless otherwise shown.

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	DRAWN - A. HOUSEH 11-07-95	REVISED - A. SCHUETZE 07-01-13	
PLOT SCALE = 50.0000 ' / in.	CHECKED - A. HOUSEH 10-12-96	REVISED - A. SCHUETZE 09-15-16	
PLOT DATE = 3/4/2019	DATE - T. RAMMACHER 01-06-00	REVISED -	

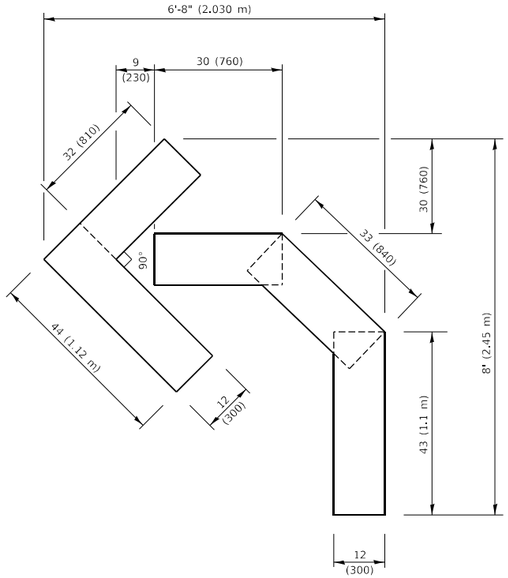
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC)

SCALE: NONE | SHEET 1 OF 1 SHEETS | STA. | TO STA.

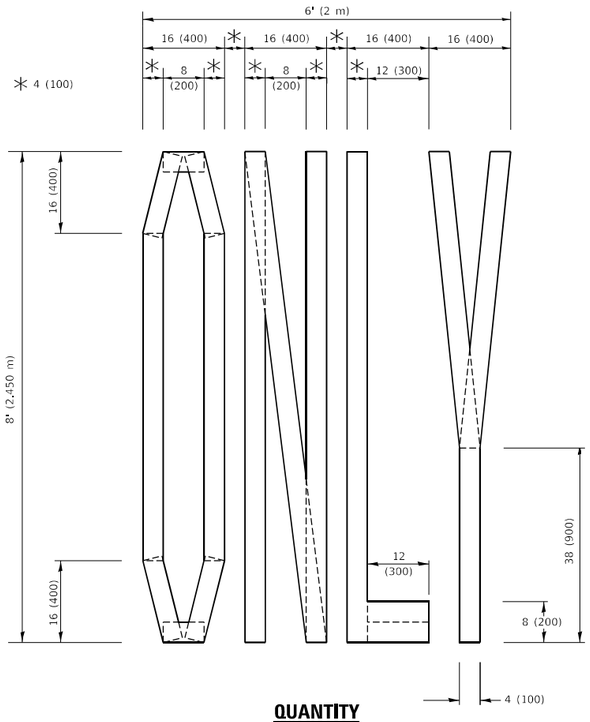
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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	TC-14	CONTRACT NO. 62P09		
	ILLINOIS FED. AID PROJECT			

tc14.dgn 3/4/2019 10:36:01 AM User=footemj



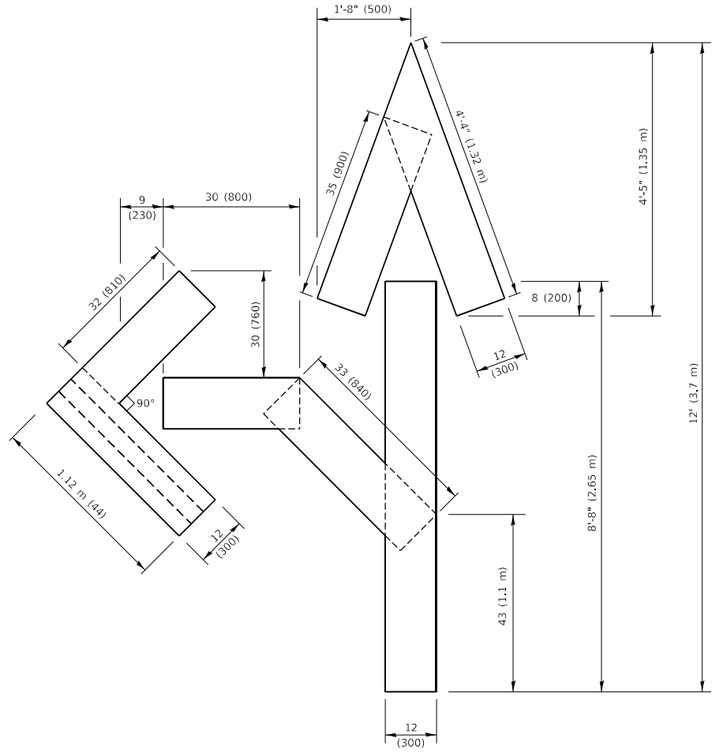
QUANTITY

4 (100) LINE = 45.5 ft. (13.9 m)
15.2 sq. ft. (1.41 sq. m)



QUANTITY

4 (100) LINE = 64.1 ft. (19.5 m)
21.4 sq. ft. (1.99 sq. m)

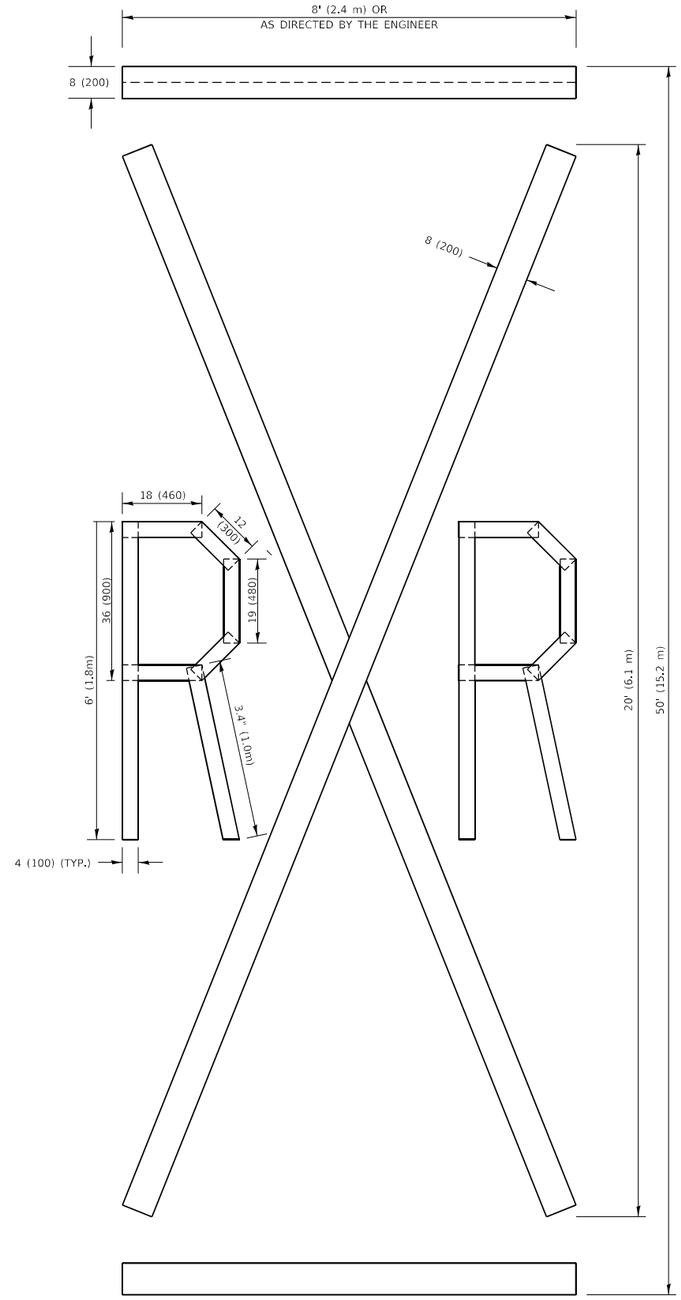


QUANTITY

4 (100) LINE = 82.5 ft. (25.1 m)
27.5 sq. ft. (2.53 sq. m)

NOTE:

ALL QUANTITIES OF PLACEMENT ARE REPRESENTED IN LINEAR FEET OF 4" LINES TO MATCH THE 4" TEMPORARY TAPE PAY ITEM AND REPRESENTS THE TOTAL QUANTITY OF 4" TAPE REQUIRED.



QUANTITY

4 (100) LINE = 225.9 ft. (68.9 m)
75.3 sq. ft. (6.99 sq. m)

All dimensions are in inches (millimeters) unless otherwise shown.

USER NAME = footemj	DESIGNED -	REVISED - T. RAMMACHER 03-02-98	
	DRAWN -	REVISED - E. GOMEZ 08-28-00	
PLOT SCALE = 50.0068 ' / in.	CHECKED -	REVISED - E. GOMEZ 08-28-00	
PLOT DATE = 3/4/2019	DATE - 09-18-94	REVISED - A. SCHUETZE 09-15-16	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SHORT TERM PAVEMENT MARKING LETTERS AND SYMBOLS

SCALE: NONE | SHEET 1 OF 1 SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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	TC-16	CONTRACT NO. 62P09		
	ILLINOIS FED. AID PROJECT			

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tc16.dgn 3/4/2019 10:37:35 AM User=footemj

ROUTE MARKERS

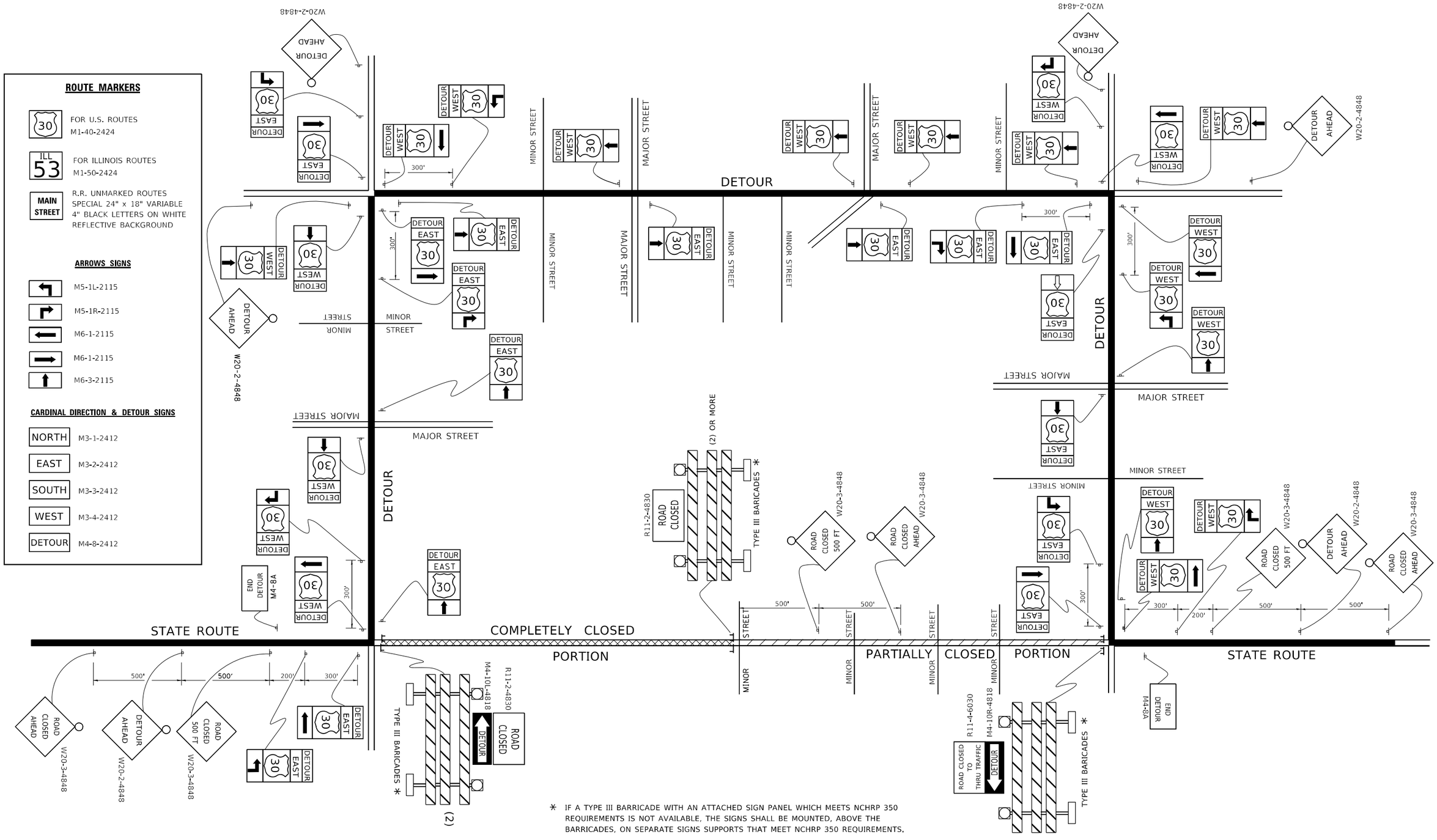
- 30 — FOR U.S. ROUTES M1-40-2424
- ILL 53 — FOR ILLINOIS ROUTES M1-50-2424
- MAIN STREET — R.R. UNMARKED ROUTES SPECIAL 24" x 18" VARIABLE 4" BLACK LETTERS ON WHITE REFLECTIVE BACKGROUND

ARROWS SIGNS

- M5-1L-2115
- M5-1R-2115
- M6-1-2115
- M6-1-2115
- M6-3-2115

CARDINAL DIRECTION & DETOUR SIGNS

- NORTH — M3-1-2412
- EAST — M3-2-2412
- SOUTH — M3-3-2412
- WEST — M3-4-2412
- DETOUR — M4-8-2412



* IF A TYPE III BARRICADE WITH AN ATTACHED SIGN PANEL WHICH MEETS NCHRP 350 REQUIREMENTS IS NOT AVAILABLE, THE SIGNS SHALL BE MOUNTED, ABOVE THE BARRICADES, ON SEPARATE SIGNS SUPPORTS THAT MEET NCHRP 350 REQUIREMENTS.

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	DRAWN -	REVISED - R. BORO 09-14-09	
PLOT SCALE = 50.0000 ' / in.	CHECKED -	REVISED -	
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

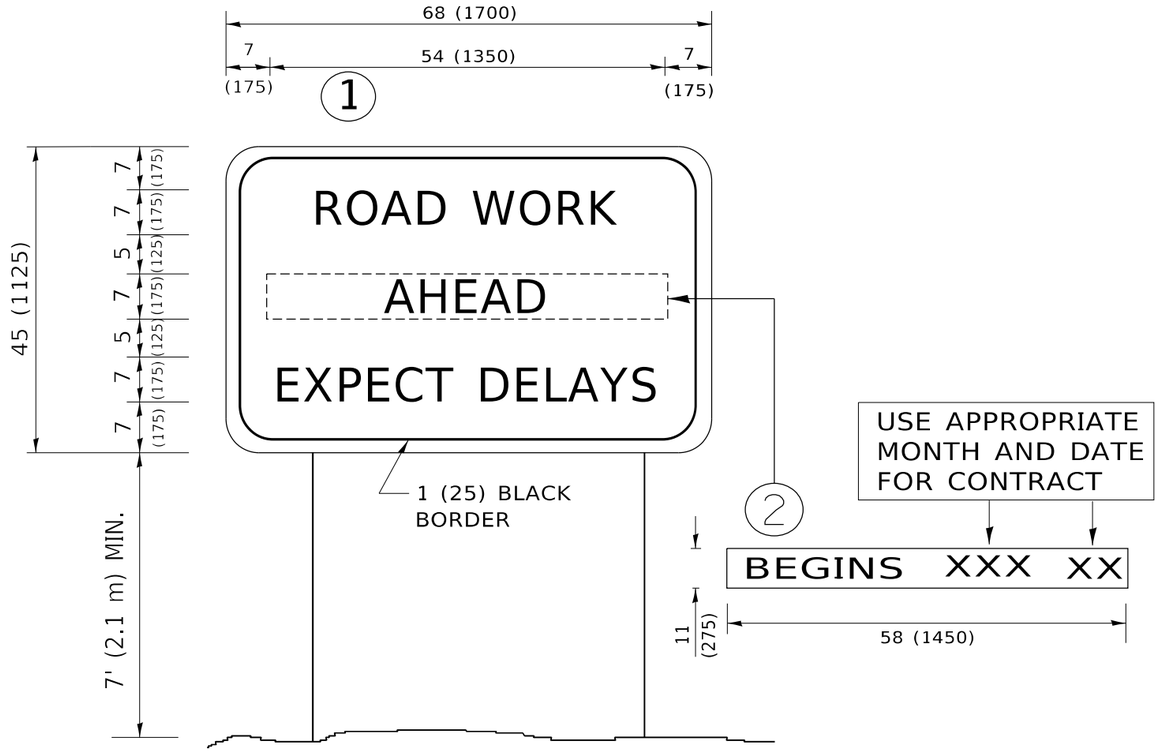
DETOUR SIGNING FOR CLOSING STATE HIGHWAYS

SCALE: NONE | SHEET 1 OF 1 SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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tc21.dgn 3/4/2019 10:46:33 AM User=footemj



NOTES:

1. USE BLACK LETTERING ON ORANGE BACKGROUND.
2. ERECT SIGNS IN ADVANCE OF THE LOCATION FOR THE "ROAD CONSTRUCTION AHEAD" SIGN AT LOCATIONS AS DIRECTED BY THE ENGINEER.
3. ERECT SIGN (1) WITH INSTALLED PANEL (2) ONE WEEK PRIOR TO THE START OF CONSTRUCTION.
4. REMOVE PANEL (2) SOON AFTER THE START OF CONSTRUCTION.
5. SEE SPECIAL PROVISION FOR "TEMPORARY INFORMATION SIGNING" FOR ADDITIONAL INFORMATION.
6. ONE SIGN ASSEMBLY EQUALS 25.70 SQ. FT. (2.3 SQ. M.)
7. SHALL BE PAID FOR AS TEMPORARY INFORMATION SIGNING.

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

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	DRAWN -	REVISED -	R. MIRS 12-11-97
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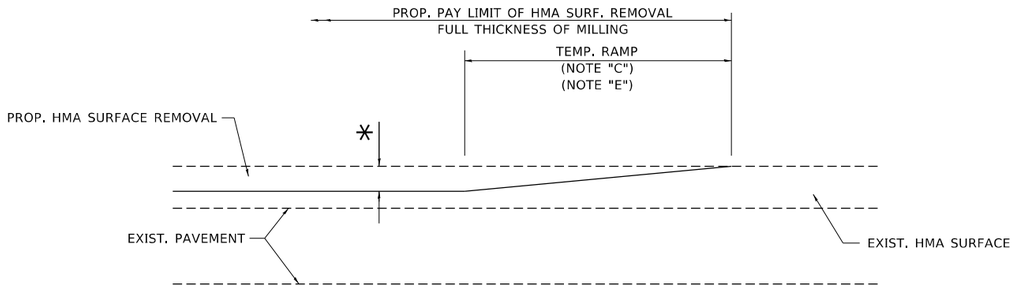
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ARTERIAL ROAD INFORMATION SIGN

SCALE: NONE | SHEET 1 OF 1 SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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	TC-22	CONTRACT NO. 62P09		
	ILLINOIS FED. AID PROJECT			

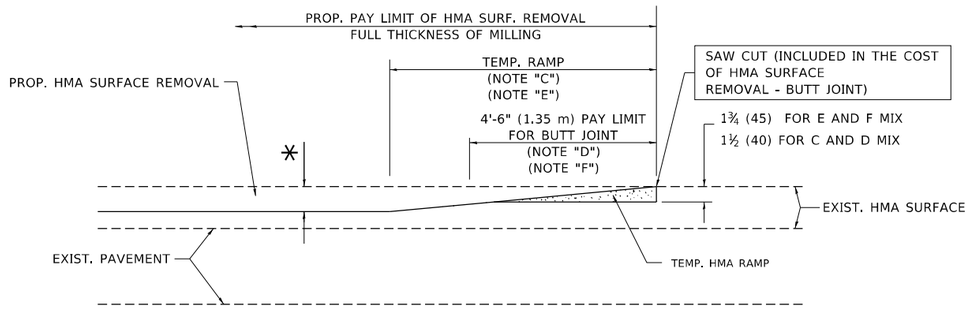
tc22.dgn 3/4/2019 10:48:10 AM User=footemj



MILLED TEMPORARY RAMP

(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

OPTION 1

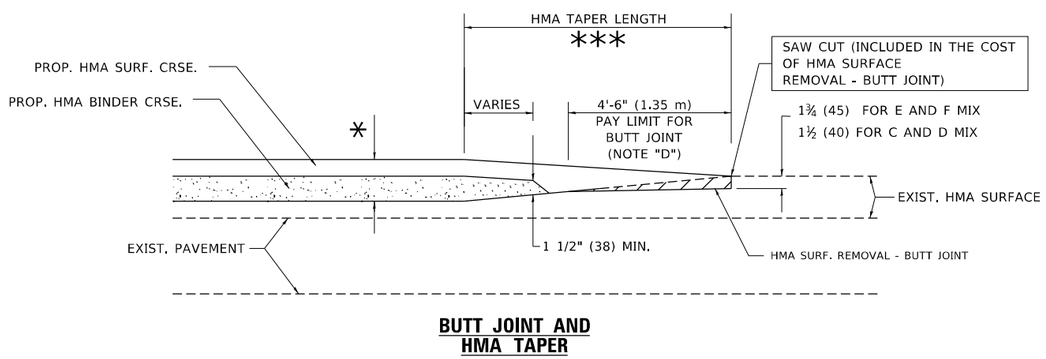


HMA CONSTRUCTED TEMPORARY RAMP

(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

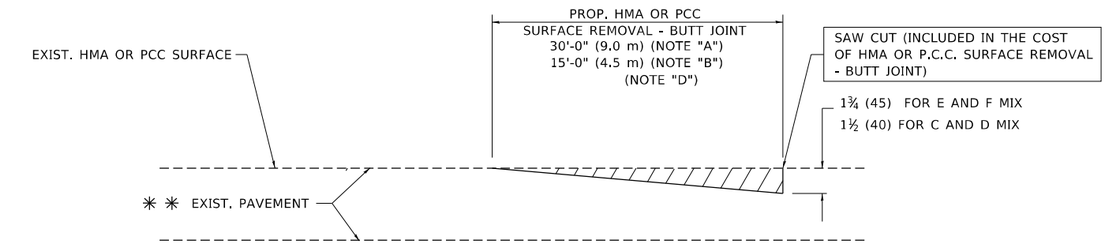
OPTION 2

TYPICAL TEMPORARY RAMP

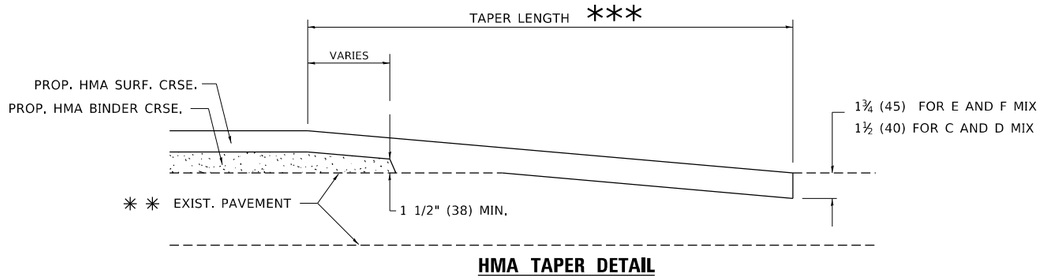


BUTT JOINT AND HMA TAPER

TYPICAL BUTT JOINT AND HMA TAPER FOR MILLING AND RESURFACING



BUTT JOINT DETAIL



HMA TAPER DETAIL

TYPICAL BUTT JOINT AND HMA TAPER FOR RESURFACING ONLY

** PC CONCRETE, HMA OR HMA RESURFACED PAVEMENT.

NOTES

A. MAINLINE ROADWAYS AND MAJOR SIDE ROADS.

B. MINOR SIDE ROADS.

C. THE TEMP. RAMP SHALL BE CONSTRUCTED IMMEDIATELY UPON REMOVAL OF THE EXISTING HMA SURFACE.

D. THE BUTT JOINT SHALL BE CONSTRUCTED IMMEDIATELY PRIOR TO PLACING THE PROPOSED HMA COURSES.

E. TAPER THE TEMP. RAMP AT A RATE OF 3'-0" (900 mm) PER 1 INCH (25 mm) OF MILLING THICKNESS.

F. INSTALLATION AND REMOVAL OF THE 4'-6" (1.35 m) TEMP. RAMP IS INCLUDED IN COST OF HMA SURFACE REMOVAL - BUTT JOINT.

* SEE TYPICAL SECTIONS FOR MILLING THICKNESS.

G. SEE ARTICLE 406.08 AND 406.14 OF THE STANDARD SPECIFICATIONS FOR "HMA AND/OR PCC SURFACE REMOVAL, BUTT JOINT".

*** 20'-0" (6.1 m) PER 1 (25) RESURFACING (NOTE "A")
10'-0" (3.0 m) PER 1 (25) RESURFACING (NOTE "B")

BASIS OF PAYMENT

THE BUTT JOINT WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER SQUARE YARD (SQUARE METER) FOR "HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT" OR FOR "PORTLAND CEMENT CONCRETE SURFACE REMOVAL- BUTT JOINT".

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

MODEL: Default
FILE NAME: pw:\\plannroom.dot.illinois.gov:PWIDOT\Documents\IDOT Offices\District 1\Projects\Dist5\d22x34\CADData\CADSheets\bd32.dgn

USER NAME = footem}	DESIGNED - M. DE YONG	REVISED - R. SHAH 10-25-94	
	DRAWN -	REVISED - A. ABBAS 03-21-97	
PLOT SCALE = 50.0000 ' / in.	CHECKED -	REVISED - M. GOMEZ 04-06-01	
PLOT DATE = 3/27/2019	DATE - 06-13-90	REVISED - R.BORO 01-01-07	

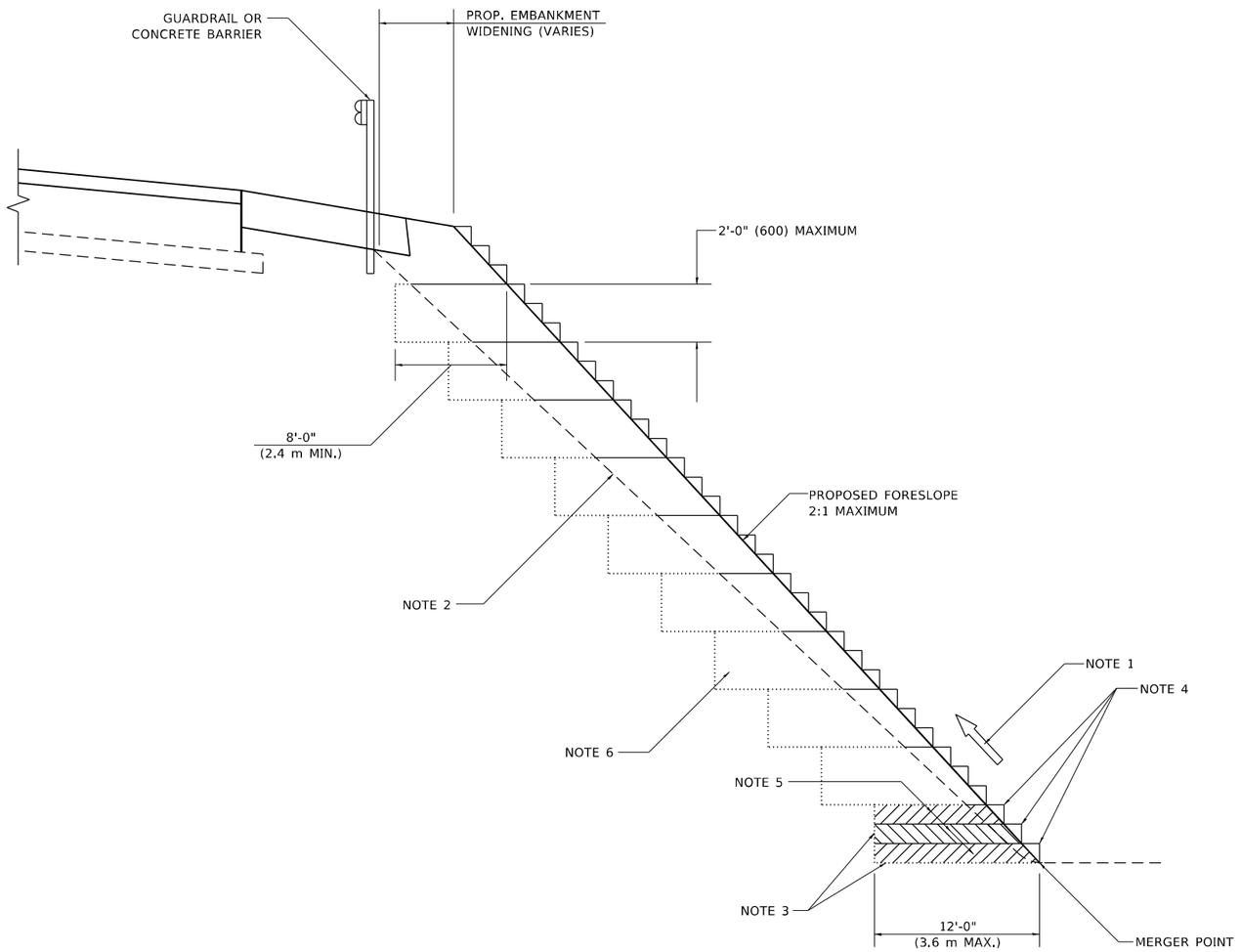
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BUTT JOINT AND HMA TAPER DETAILS

SCALE: NONE | SHEET 1 OF 1 SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0333	2021-071-BDR	LAKE	131	130
	BD400-05 BD32	CONTRACT NO. 62P09		
	ILLINOIS FED. AID PROJECT			

bd32.dgn 3/27/2019 8:05:47 AM User=footemj



TYPICAL BENCHING DETAIL FOR EMBANKMENT

GENERAL NOTES

1. CONSTRUCT SUCCEEDING BENCH CUTS AND EMBANKMENT PLACEMENT AND COMPACTION FROM BOTTOM TO TOP IN STAIRSTEP FASHION.
2. EXISTING FORESLOPE PREPARED IN ACCORDANCE WITH ARTICLE 205.03 OF THE STANDARD SPECIFICATIONS.
3. BENCH CUT EXISTING SLOPE TYPICAL FOR EACH STEP.
4. TRIM TO FINAL SLOPE.
5. EQUAL 8-INCH (200) LIFTS OF EMBANKMENT COMPACTED IN ACCORDANCE WITH ARTICLE 205.05 OF THE STANDARD SPECIFICATIONS.

BASIS OF PAYMENT

1. EXCAVATION OF BENCH CUTS WITHIN EXISTING EMBANKMENT WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER CUBIC METER OR CUBIC YARD FOR "EARTH EXCAVATION". THIS PRICE WILL INCLUDE ALL LABOR AND MATERIAL, NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

MODEL: Default
FILE NAME: pw:\\dot-pw.bentley.com:PWIDOT\Documents\IDOT Offices\District 1\Projects\Dist\Std\22x34\CADD\stat\CADs\sheets\bd51.dgn

USER NAME = Lawrence.DeManche	DESIGNED -	REVISED - K. SMITH 11-18-22	
	DRAWN - CADD	REVISED -	
PLOT SCALE = 100.0000 ' / in.	CHECKED - S.E.B.	REVISED -	
PLOT DATE = 11/18/2022	DATE - 06-16-04	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BENCHING DETAIL
FOR EMBANKMENT WIDENING

SCALE: NONE | SHEET 1 OF 1 SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			131	131
	BD-51		CONTRACT NO. 62P09	
	ILLINOIS	FED. AID PROJECT		