

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.U. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8885	BI	MADISON	76	1
		ILLINOIS	CONTRACT NO. 76F88	

03-08-2024 LETTING ITEM 171

FOR INDEX OF SHEETS, SEE SHEET NO. 2

PROPOSED HIGHWAY PLANS

FAU ROUTE 8885 (N SIU-E ENT ROAD)
SECTION BI
PROJECT HBFP-MMU3(619)
SUPERSTRUCTURE REPLACEMENT
MADISON COUNTY

C-98-292-18

TRAFFIC DATA

FUNCTIONAL CLASSIFICATION: MINOR ARTERIAL

NB SIUE NORTH ENTRANCE RD

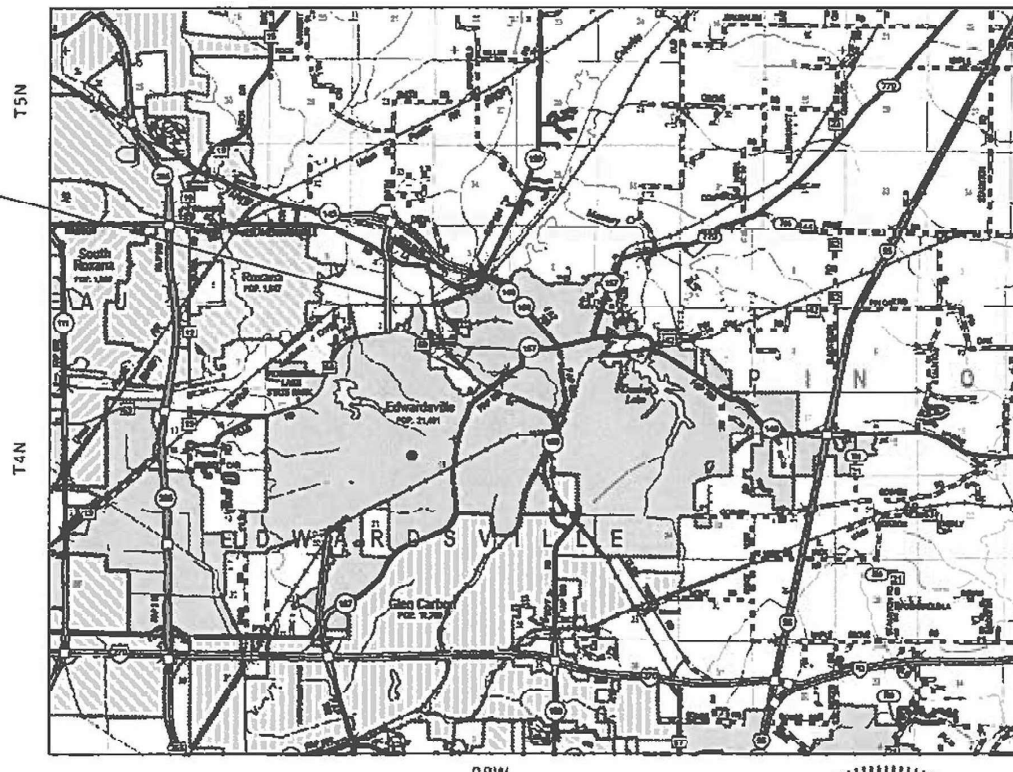
2016 ADT (ACTUAL): 2800
2023 ADT (ESTIMATED): 2900
2043 ADT (ESTIMATED): 3300
SU: 2.7%
MU: 1.4%

SB SIUE NORTH ENTRANCE RD

2016 ADT (ACTUAL): 2900
2023 ADT (ESTIMATED): 3000
2043 ADT (ESTIMATED): 3400
SU: 2.7%
MU: 1.4%



SN 060-0142 & 0143
STA. 524+06.10
LENGTH: 154'-0"
LAT: 38°49'7.70"N
LON: 89°59'38.34"W



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

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

PROJECT ENGINEER CHERYL KEPLAR
PROJECT MANAGER KAREN CHALLANDES

CONTRACT NO. 76F88



GROSS LENGTH = 2,065.00 FT. = 0.391 MILE
NET LENGTH = 2,065.00 FT. = 0.391 MILE



BENTON & ASSOCIATES, INC.
Consulting Engineers / Land Surveyors
1970 West Lafayette Ave. Jacksonville, IL 62650
Phone: 217-245-4146 Fax: 217-245-4149
IL Design Firm Registration No. 184-000852

Drew S. Ruholl 06/21/2023
DREW S. RUHOLL DATE
LICENSE EXPIRES 11-30-2023
SHEET RANGE 1-36, 42, 71-76

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED June 30, 2023
Kathleen Brown REGIONAL ENGINEER

August 18, 2023 [Signature] ENGINEER OF DESIGN AND ENVIRONMENT

August 18, 2023 [Signature] DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS

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HIGHWAY STANDARDS

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
421001-03	BAR REINFORCEMENT FOR CRC PAVEMENT
482001-02	HMA SHOULDER ADJACENT TO FLEXIBLE PAVEMENT
482011-03	HMA SHLD STRIPS/SHLDS WITH RESURFACING OR WIDENING AND RESURFACING PROJECTS
483001-06	PCC SHOULDER
515001-04	NAME PLATE FOR BRIDGES
630001-13	STEEL PLATE BEAM GUARDRAIL
630301-09	SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINALS
631026-06	TRAFFIC BARRIER TERMINAL, TYPE 5
631031-18	TRAFFIC BARRIER TERMINAL, TYPE 6
666001-01	RIGHT OF WAY MARKERS
701101-05	OFF-RD OPERATIONS, MULTILANE, 15' TO 24" FROM PAVEMENT EDGE
701106-02	OFF-RD OPERATIONS, MULTILANE, MORE THAN 15' AWAY
701421-08	LANE CLOSURE, MULTILANE, DAY OPERATIONS ONLY, FOR SPEEDS ≥45 MPH TO 55 MPH
701422-10	LANE CLOSURE, MULTILANE, FOR SPEEDS ≥45 MPH TO 55 MPH
701426-09	LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPER., FOR SPEEDS ≥45 MPH
701901-09	TRAFFIC CONTROL DEVICES
704001-08	TEMPORARY CONCRETE BARRIER
780001-05	TYPICAL PAVEMENT MARKINGS
781001-04	TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS
782006-01	GUARDRAIL AND BARRIER WALL REFLECTOR MOUNTING DETAILS
420101-07	24' JOINTED PCC PAVEMENT
420701-03	PAVEMENT WELDED WIRE REINFORCEMENT
725001-01	OBJECT AND TERMINAL MARKERS

MIXTURE REQUIREMENTS

ROUTE	FAU 8885	ADT (CONSTRUCTION YR)	5800
SECTION	B1	MU%	0
COUNTY	MADISON	SU%	2
CONTRACT	76F88	20 YR. ESAL 'S:	0.19

DESCRIPTION	SIUE NORTH ACCESS RD OVER NSRR - SN 060-0142 AND 060-0143 - SUPERSTRUCTURE REPLACEMENTS
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TEMPORARY CROSSOVER			
MIXTURE USE	BINDER (MAINLINE)	SHOULDER	STABILIZED SUBBASE
AC/PG	PG 64-22	PG 64-22	PG 64-22
DESIGN AIR VOIDS	4.0% @ Ndes=70	4.0% @ Ndes=70	4.0% @ Ndes=30
MIX COMPOSITION (GRADATION)	1L 19.0	1L 19.0	1L 19.0L
FRICITION AGG	MIXTURE "B"	MIXTURE "B"	
QUALITY MGMT PROGRAM	QC/QA	QC/QA	QC/QA
MatTranDev REQUIRED?	NO	NO	NO

PLAN QUANTITIES FOR HOT-MIX ASPHALT ITEMS ARE CALCULATED USING A UNIT WEIGHT OF 112 LB/SQ YD/IN ANY QCP PAY ITEM THAT HAS A QUANTITY OF 1600 TONS OR LESS WILL HAVE TWO SUBLOTS EACH OF WHICH HALF OF THE PLAN QUANTITY OR HALF OF THE ADJUSTED QUANTITY BY THE RESIDENT ENGINEER/TECHNICIAN

COMMITMENTS

ENVIRONMENTAL - TREE CLEARING SHALL NOT BE DONE FROM APRIL 1ST THROUGH SEPTEMBER 30TH DUE TO POSSIBLE SUITABLE HABITAT FOR THE INDIANA AND NORTHERN LONG-EARED BATS.

GENERAL NOTES:

1. AGENCIES KNOWN TO HAVE FACILITIES WITHIN THE PROJECT AREA ARE AS FOLLOWS:

	AERIAL	BURIED
-AMEREN ILLINOIS (GAS & ELECTRIC)	X	X
-AT&T ILLINOIS (COMMUNICATIONS)	X	X
-CHARTER COMMUNICATIONS, INC. (CABLE TV)	X	X
-CITY OF EDWARDSVILLE (WATER & SANITARY SEWER)		X
-MARATHON PILE LINE LLC (PIPELINE)		X
-NORTHEAST CENTRAL COUNTY PUBLIC WATER DISTRICT (WATER)		X
-TC ENERGY (PIPELINE)		X

2. THE ILLINOIS DEPARTMENT OF TRANSPORTATION STRONGLY ENCOURAGES THE PRIME CONTRACTOR AND THEIR APPROVED SUB-CONTRACTORS TO HIRE MINORITY, WOMEN AND DISADVANTAGED INDIVIDUALS FROM ITS FEDERALLY FUNDED HIGHWAY CONSTRUCTION CAREERS TRAINING PROGRAM (HCCTP) TO HELP MEET WORKFORCE AND TRAINEE GOALS. THIS PROGRAM IS TRAINING MINORITIES, WOMEN AND DISADVANTAGED INDIVIDUALS IN HIGHWAY CONSTRUCTION-RELATED SKILLS, E.G., MATH FOR TRADES, JOB READINESS, TECHNICAL SKILLS COURSEWORK (CARPENTRY, CONCRETE FLATWORK, BLUEPRINT READING, SITE PLANS, SITE WORK, TOOLS USE, ETC.) AND OSHA 10 HOUR CERTIFICATION, TO PREPARE THEM FOR A CAREER IN HIGHWAY CONSTRUCTION TRADES, GRADUATES ARE WELL TRAINED AND READY TO BECOME PRODUCTIVE ENTRY-LEVEL CONSTRUCTION WORKERS. PLEASE CONTACT THE DISTRICT 8 EEO OFFICE AT 618-346-3360 AND/OR THE HCCTP COORDINATOR AT 618-874-6528 TO LEARN MORE ABOUT THE PROGRAM AND FOR ASSISTANCE IN MEETING WORKFORCE AND TRAINEE GOALS.

3. THE PROPOSED PAVEMENT MARKINGS AND TEMPORARY PAVEMENT MARKINGS SHALL MATCH THE LOCATIONS OF THE EXISTING PAVEMENT MARKING, AS DIRECTED BY THE ENGINEER.

4. TWO (2) CHANGEABLE MESSAGE SIGNS SHALL BE REQUIRED FOR THIS PROJECT. IT SHALL BE PLACED 2 WEEKS PRIOR TO ANY LANE CLOSURE. THE CHANGEABLE MESSAGE SIGNS SHALL BE PLACED ALONG SIUE NORTH ACCESS ROAD OR AT THE DIRECTION OF THE ENGINEER. THESE CHANGEABLE MESSAGE SIGNS ARE NOT INCLUDED IN THE TRAFFIC CONTROL AND PROTECTION (SPECIAL) AND WILL BE PAID FOR SEPARATELY.

5. ONLY THE REMOVAL OF THE SHORT-TERM PAVEMENT MARKING FROM THE FINAL SURFACE SHALL BE PAID FOR AS "SHORT TERM PAVEMENT MARKING REMOVAL".

6. ALL ELEVATIONS REFER TO THE NAVD 88 DATUM.

7. IF THE CONTRACTOR, FOR HIS CONSTRUCTION ACTIVITY, REMOVES TREES WITHIN THE RIGHT-OF-WAY LIMITS WHICH ARE NOT DESIGNATED ON THE PLANS FOR REMOVAL, I.E. IN ORDER TO GAIN ACCESS TO THE PROJECT SITE; IT WILL BE HIS RESPONSIBILITY TO REPLACE THE TREES AT A 1:1 RATIO. THE TREES WILL BE REPLACED WITH A 1 GALLON NATIVE ILLINOIS TREE SPECIES AND SHALL BE APPROVED BY THE ENGINEER. THE TREE REMOVAL AND TREE REPLACEMENT WILL BE AT THE CONTRACTOR'S EXPENSE, AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

8. THE RESIDENT ENGINEER SHALL VERIFY THE EXISTENCE OF HIGHWAY LIGHTING AND/OR INTELLIGENT TRANSPORTATION SYSTEMS (I.T.S.) UTILITIES WITHIN THE PROJECT LIMITS. IF HIGHWAY LIGHTING AND/OR I.T.S. EXISTS WITHIN THE PROJECT LIMITS, AND IF THESE ITEMS REQUIRE LOCATING, THE CONTRACTOR SHALL BE DIRECTED TO DO SO ACCORDING TO SECTION 803 OF THE STANDARD SPECIFICATIONS. THIS WORK SHALL BE PAID FOR ACCORDING TO ARTICLE 109.04 OF THE STANDARD SPECIFICATIONS.

9. THE CONTRACTOR SHALL PROVIDE POSITIVE AND ADEQUATE DRAINAGE AT ALL TIMES

10. ALL REMOVED GUARDRAIL COMPONENTS ARE THE PROPERTY OF THE CONTRACTOR AND THE SALVAGE VALUE OF SAID COMPONENTS SHALL BE REFLECTED IN THE CONTRACTOR'S BID.

11. FACTORS FOR ESTIMATING PLAN QUANTITIES ARE AS FOLLOWS AND SHALL NOT BE USED FOR THE BASIS OF FINAL QUANTITIES:

AGGREGATE (SURFACE, BASE, & BACKFILL)	2.05 TON/CU YD
TEMPORARY EROSION CONTROL SEEDING	100 LB/ACRE
NITROGEN FERTILIZER NUTRIENT	90 LB/ACRE
PHOSPHORUS FERTILIZER NUTRIENT	90 LB/ACRE
POTASSIUM FERTILIZER NUTRIENT	90 LB/ACRE
BITUMINOUS MATERIAL (TACK COAT)	0.05 LB/SQ FT (PCC, EX. HMA, MILLED HMA)
	0.025 LB/SQ FT (BETWEEN HMA LIFTS)
BITUMINOUS MATERIAL (PRIME COAT)	0.25 LB/SQ FT

12. THE DISTRICT LAND ACQUISITION SECTION SHALL BE CONTACTED IF DIFFERENCES ARE IDENTIFIED BETWEEN ANY PROPOSED RIGHT-OF-WAY OR EASEMENT SHOWN ON THE ENGINEERING PLAN SHEETS AS COMPARED TO THE SAME PROPOSED RIGHT-OF-WAY OR EASEMENT SHOWN ON THE PLAT OF HIGHWAYS. QUESTIONS OR CONCERNS REGARDING THESE ITEMS SHOULD BE DIRECTED TO CLINT MARSHALL AT (316) 346-3124.

13. ALL EXISTING AND PROPOSED RIGHT-OF-WAY LANES AND PROPERTY LINES SHOWN ON THE ROADWAY PLANS SHEETS ARE GRAPHICAL REPRESENTATIONS AND SHALL NOT BE USED AS MEANS TO ESTABLISH OWNERSHIP. IN ALL MATTERS RELATING TO RIGHT-OF-WAY, THE PLAT OF HIGHWAYS SHALL BE THE CONTROLLING DOCUMENT.

14. ANY MOMUMENT OR PROPERTY CORNER TO BE SET SHALL BE SET BY AN ILLINOIS PROFESSIONAL LAND SURVEYOR WITH DEPARTMENT PREQUALIFICATION IN "SPECIAL SERVICES - SURVEYING".

15. THE RIGHT-OF-WAY OR PROPERTY CORNER IS MONUMENTED WITH A 5/8" IRON ROD, THIRTY INCHES (30") IN LENGTH, WITH AN IDOT ALUMINUM CAP THAT SHALL NOT BE REMOVED, DAMAGED OR DISTURBED WHEN SETTING THE RIGHT-OF-WAY MARKER. THE RIGHT-OF-WAY MARKER SHALL BE INSTALLED SO THAT THE BACK OF THE POST IS TWELVE INCHES (12") INSIDE THE RIGHT-OF-WAY BOUNDARY. THE RIGHT-OF-WAY MARKER SHALL BE A WITNESS TO THE MOMUMENT.

REV. - MS

MODEL: D:\p\full FILE NAME: P:\2023\87-3176F88 Section: B1\CADD_Sheets\076F88-sh-ct-generators.dgn

 <p>BENTON & ASSOCIATES, INC. CONSULTING ENGINEERS / LAND SURVEYORS 1910 WEST LAFALETTE AVE. JACKSONVILLE, IL 62650 PHONE: 217-245-4146 FAX: 217-245-4149 IL DESIGN FIRM REGISTRATION NO. 184-000852</p>	USER NAME = dnuholl	DESIGNED - DSR	REVISED -	<p>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</p>	<p>INDEX OF SHEETS, HIGHWAY STANDARDS, GENERAL NOTES, MIXTURE REQUIREMENTS, & COMMITMENTS</p>	F.A.U. RTE. = 8885	SECTION = B1	COUNTY = MADISON	TOTAL SHEETS = 76	SHEET NO. = 2	
	PLOT SCALE = 100.0000' / in.	CHECKED - WJS	REVISED -			CONTRACT NO. 76F88					
	PLOT DATE = 6/28/2023	DATE = 06/27/2023	REVISED -			SCALE: SHEET 1 OF 1 SHEETS STA. TO STA.					
							ILLINOIS FED. AID PROJECT				

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CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE		
				ROADWAY	BRIDGE	BRIDGE
				0004 URBAN	0013 S.N. 060-0142	0013 S.N. 060-0143
20200100	EARTH EXCAVATION	CU YD	670	670		
20400800	FURNISHED EXCAVATION	CU YD	95	95		
25000200	SEEDING, CLASS 2	ACRE	0.75	0.75		
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	63	63		
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	63	63		
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	63	63		
25100115	MULCH, METHOD 2	ACRE	0.75	0.75		
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	177	177		
28000305	TEMPORARY DITCH CHECKS	FOOT	26	26		
28000500	INLET AND PIPE PROTECTION	EACH	2	2		
30300112	AGGREGATE SUBGRADE IMPROVEMENT 12"	SQ YD	1166	1166		
31101900	SUBBASE GRANULAR MATERIAL, TYPE C	TON	293	293		
31102100	SUBBASE GRANULAR MATERIAL, TYPE C 4"	SQ YD	3703	3703		
31200100	STABILIZED SUBBASE 4"	SQ YD	792	792		

+ SPECIALTY ITEM



BENTON & ASSOCIATES, INC.
 CONSULTING ENGINEERS - LAND SURVEYORS
 1910 WEST LAFAYETTE AVE.
 JACKSONVILLE, IL 62555
 PHONE: 217-245-4140 FAX: 217-245-4149
 IL DESIGN FIRM REGISTRATION NO. 184-000832

USER NAME =	druholli
PLOT SCALE =	100,0000' / in.
PLOT DATE =	6/28/2023

DESIGNED -	DSR	REVISED -	
DRAWN -	DSR	REVISED -	
CHECKED -	WJS	REVISED -	
DATE -	06/27/2023	REVISED -	

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES			
SCALE:	SHEET 1	OF 6 SHEETS	STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8885	BI	MADISON	76	3
			CONTRACT NO. 76F88	
			ILLINOIS FED. AID PROJECT	

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CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE		
				ROADWAY	BRIDGE	BRIDGE
				0004 URBAN	0013 S.N. 060-0142	0013 S.N. 060-0143
40600275	BITUMINOUS MATERIALS (PRIME COAT)	POUND	7605	7605		
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	1588	1588		
40701856	HOT-MIX ASPHALT PAVEMENT (FULL-DEPTH), 8 3/4"	SQ YD	3081	3081		
42000060	WELDED WIRE REINFORCEMENT	SQ YD	166	166		
42000080	PAVEMENT CONNECTOR (PCC) FOR BRIDGE APPROACH SLAB	SQ YD	166	166		
42100210	CONTINUOUSLY REINFORCED PORTLAND CEMENT CONCRETE PAVEMENT 9 1/2"	SQ YD	570	570		
42100615	PAVEMENT REINFORCEMENT	SQ YD	570	570		
44000100	PAVEMENT REMOVAL	SQ YD	4144	4144		
44004250	PAVED SHOULDER REMOVAL	SQ YD	3517	3517		
48203032	HOT-MIX ASPHALT SHOULDERS, 8 3/4"	SQ YD	2693	2693		
48300410	PORTLAND CEMENT CONCRETE SHOULDERS 9 1/2"	SQ YD	447	447		
50101700	REMOVAL OF EXISTING SUPERSTRUCTURES NO. 1	EACH	1		1	
50101800	REMOVAL OF EXISTING SUPERSTRUCTURES NO. 2	EACH	1			1
50102400	CONCRETE REMOVAL	CU YD	64		32	32

+ SPECIALTY ITEM



BENTON & ASSOCIATES, INC.
CONSULTING ENGINEERS - LAND SURVEYORS
1910 WEST LAFALETTE AVE.
JACKSONVILLE, IL 62555
PHONE: 217-245-4140 FAX: 217-245-4149
IL DESIGN FIRM REGISTRATION NO. 184-000832

USER NAME = druholl	DESIGNED - DSR	REVISED -
PLOT SCALE = 100,0000' / in.	DRAWN - DSR	REVISED -
PLOT DATE = 6/28/2023	CHECKED - WJS	REVISED -
	DATE - 06/27/2023	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES			
SCALE:	SHEET 2	OF 6	SHEETS
STA.		TO STA.	

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8885	BI	MADISON	76	4
ILLINOIS FED. AID PROJECT			CONTRACT NO. 76F88	

80% FED
20% STATE

CONSTRUCTION CODE

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE		
				ROADWAY	BRIDGE	BRIDGE
				0004 URBAN	0013 S.N. 060-0142	0013 S.N. 060-0143
50104650	SLOPE WALL REMOVAL	SQ YD	790		395	395
50105220	PIPE CULVERT REMOVAL	FOOT	600	600		
50157300	PROTECTIVE SHIELD	SQ YD	464		232	232
50200100	STRUCTURE EXCAVATION	CU YD	230		115	115
50300225	CONCRETE STRUCTURES	CU YD	68.7		34.8	33.9
50300255	CONCRETE SUPERSTRUCTURE	CU YD	440.4		220.2	220.2
50300260	BRIDGE DECK GROOVING	SQ YD	1470		735	735
50300300	PROTECTIVE COAT	SQ YD	1920		960	960
50301350	CONCRETE SUPERSTRUCTURE (APPROACH SLAB)	CU YD	208.8		104.4	104.4
50500105	FURNISHING AND ERECTING STRUCTURAL STEEL	L SUM	1		0.5	0.5
50500505	STUD SHEAR CONNECTORS	EACH	8388		4194	4194
50800205	REINFORCEMENT BARS , EPOXY COATED	POUND	184020		92010	92010
51100100	SLOPE WALL 4 INCH	SQ YD	790		395	395
51500100	NAME PLATES	EACH	2		1	1

* SPECIALTY ITEM

REV. - MS

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PLOT SCALE = 100.0000 ' / in.
PLOT DATE = 6/28/2023

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STATE OF ILLINOIS
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SUMMARY OF QUANTITIES

SCALE: SHEET 3 OF 6 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8885	B1	MADISON	76	5
CONTRACT NO. 76F88			ILLINOIS FED. AID PROJECT	

80% FED
20% STATE

CONSTRUCTION CODE

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE		
				ROADWAY	BRIDGE	BRIDGE
				0004 URBAN	0013 S.N. 060-0142	0013 S.N. 060-0143
52100010	ELASTOMERIC BEARING ASSEMBLY, TYPE I	EACH	36		18	18
52100510	ANCHOR BOLTS, 3/4"	EACH	72		36	36
52100520	ANCHOR BOLTS, 1"	EACH	24		12	12
5421C012	PIPE CULVERTS, CLASS C, TYPE 1 12" (TEMPORARY)	FOOT	288	288		
58600101	GRANULAR BACKFILL FOR STRUCTURES	CU YD	230		115	115
59100100	GEOCOMPOSITE WALL DRAIN	SQ YD	100		50	50
59300100	CONTROLLED LOW-STRENGTH MATERIAL	CU YD	171		78	93
60146304	PIPE UNDERDRAINS FOR STRUCTURES 4"	FOOT	148		74	74
* 63000001	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	FOOT	425	425		
* 63100070	TRAFFIC BARRIER TERMINAL, TYPE 5	EACH	2	2		
* 63100085	TRAFFIC BARRIER TERMINAL, TYPE 6	EACH	4	4		
63200310	GUARDRAIL REMOVAL	FOOT	959	959		
66600105	FURNISHING AND ERECTING RIGHT OF WAY MARKERS	EACH	12	12		
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	18	18		

*SPECIALTY ITEM

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BENTON & ASSOCIATES, INC.
CONSULTING ENGINEERS - LAND SURVEYORS
1910 WEST LAFALETTE AVE.
JACKSONVILLE, IL 62555
PHONE: 217-245-4140 FAX: 217-245-4149
IL DESIGN FIRM REGISTRATION NO. 184-000832

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: SHEET 4 OF 6 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8885	BI	MADISON	76	6
CONTRACT NO. 76F88			ILLINOIS FED. AID PROJECT	

80% FED
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CONSTRUCTION CODE

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE		
				ROADWAY	BRIDGE	BRIDGE
				0004 URBAN	0013 S.N. 060-0142	0013 S.N. 060-0143
67100100	MOBILIZATION	L SUM	1	0.2	0.4	0.4
70100310	TRAFFIC CONTROL AND PROTECTION, STANDARD 701421	L SUM	1	1		
70100320	TRAFFIC CONTROL AND PROTECTION, STANDARD 701422	L SUM	1	1		
70107025	CHANGEABLE MESSAGE SIGN	CAL DA	28	28		
70400100	TEMPORARY CONCRETE BARRIER	FOOT	1825	1825		
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	1825	1825		
70500100	TEMPORARY STEEL PLATE BEAM GUARDRAIL, TYPE A	FOOT	125	125		
70500615	TEMPORARY TRAFFIC BARRIER TERMINAL, TYPE 1	EACH	2	2		
70500665	TEMPORARY TRAFFIC BARRIER TERMINAL, TYPE 6	EACH	2	2		
* 72501000	TERMINAL MARKER - DIRECT APPLIED	EACH	2	2		
* 78004620	PREFORMED PLASTIC PAVEMENT MARKING, TYPE D - LINE 4"	FOOT	1575	1575		
* 78011025	GROOVING FOR RECESSED PAVEMENT MARKING 5"	FOOT	1575	1575		
* 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	10	10		
* 78200005	GUARDRAIL REFLECTORS, TYPE A	EACH	12	12		

*SPECIALTY ITEM

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PLOT DATE = 6/28/2023

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: SHEET 5 OF 6 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8885	BI	MADISON	76	7
CONTRACT NO. 76F88			ILLINOIS FED. AID PROJECT	

MODEL: D:\p4\h
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CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE		
				ROADWAY	BRIDGE	BRIDGE
				0004	0013	0013
				URBAN	S.N. 060-0142	S.N. 060-0143
* 78200010	BARRIER WALL REFLECTORS, TYPE B	EACH	12	12		
* 78200011	BARRIER WALL REFLECTORS, TYPE C	EACH	12	12		
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	10	10		
78300202	PAVEMENT MARKING REMOVAL - WATER BLASTING	SQ FT	525	525		
* X6300130	STEEL PLATE BEAM GUARDRAIL, TYPE A (SPECIAL)	FOOT	75	75		
X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1	1		
Z0012754	STRUCTURAL REPAIR OF CONCRETE (DEPTH EQUAL TO OR LESS THAN 5 INCHES)	SQ FT	13		10	3
Z0013798	CONSTRUCTION LAYOUT	L SUM	1	0.2	0.4	0.4
Z0048665	RAILROAD PROTECTIVE LIABILITY INSURANCE	L SUM	1		0.5	0.5
Z0064505	SECTION CORNER MARKERS	EACH	1	1		
Z0065700	SLOPE WALL REPAIR	SQ YD	80		25	55
Z0065740	SLOTTED DRAIN 12" WITH VARIABLE SLOT	FOOT	312	312		
∅ Z0076600	TRAINEES	HOUR	2000	2000		
∅ Z0076604	TRAINEES TRAINING PROGRAM GRADUATE	HOUR	2000	2000		

*SPECIALTY ITEM
 ∅ 0042

REV. - MS

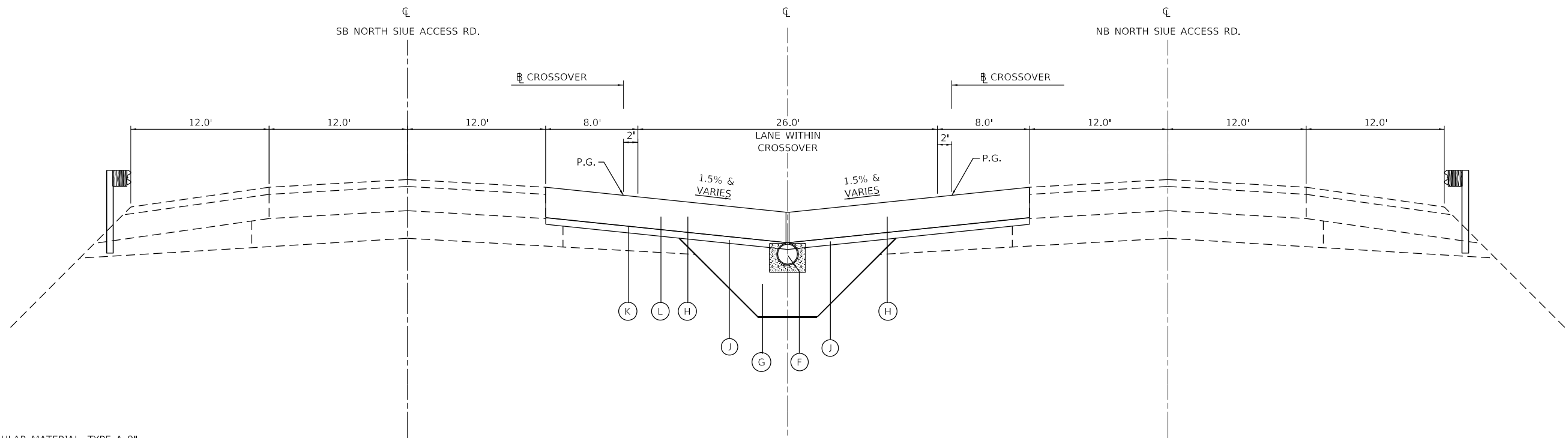


USER NAME = druholl	DESIGNED - DSR	REVISED -
PLOT SCALE = 100,0000' / in.	DRAWN - DSR	REVISED -
PLOT DATE = 6/28/2023	CHECKED - WJS	REVISED -
	DATE - 06/27/2023	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES			
SCALE:	SHEET	OF	SHEETS
	6	6	
	STA.		TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8885	BI	MADISON	76	8
CONTRACT NO. 76F88				
ILLINOIS FED. AID PROJECT				






TYPICAL PROPOSED CROSSOVER CROSS SECTION (PRESTAGE)

STA. 512+45.00 TO STA. 517+00.00
 STA. 527+50.00 TO STA. 531+10.00

NOTE: SEE SUGGESTED STAGES OF CONSTRUCTION AND TRAFFIC CONTROL SHEETS & DRAINAGE SHEETS FOR ADDITIONAL DETAILS

LEGEND

- ① EXISTING HMA SHOULDER
- ② EXISTING SUB-BASE GRANULAR MATERIAL, TYPE A 8"
- ③ EXISTING CONTINUOUSLY REINFORCED C.R.C.P. PAVEMENT 7"
- ④ EXISTING SUB-BASE TYPE C
- ⑤ EXISTING HMA OVERLAY 2½"
- Ⓐ PROPOSED SUB-BASE GRANULAR MATERIAL, TYPE C
- Ⓑ PROPOSED P.C.C. SHOULDER 9.5"
- Ⓒ PROPOSED C.R.C.P. PAVEMENT 9.5"
- Ⓓ PROPOSED STABILIZED SUB-BASE 4"
- Ⓔ PROPOSED AGGREGATE SUBGRADE IMPROVEMENT 12"
- Ⓕ PROPOSED SLOTTED DRAIN WITH VARIABLE SLOT
- Ⓖ PROPOSED EMBANKMENT
- Ⓗ PROPOSED HMA PAVEMENT (FULL DEPTH) 8.75"
- Ⓘ PROPOSED HMA SHOULDER 8.75"
- Ⓢ PROPOSED SUB-BASE GRANULAR MATERIAL, TYPE C 4"
- Ⓚ PROPOSED BITUMINOUS MATERIAL (PRIME COAT)
- Ⓛ PROPOSED BITUMINOUS MATERIAL (TACK COAT) (BETWEEN HMA LIFTS)

-  PROPOSED PAVED SHOULDER REMOVAL
-  PROPOSED PAVEMENT REMOVAL
-  PROPOSED EARTH EXCAVATION

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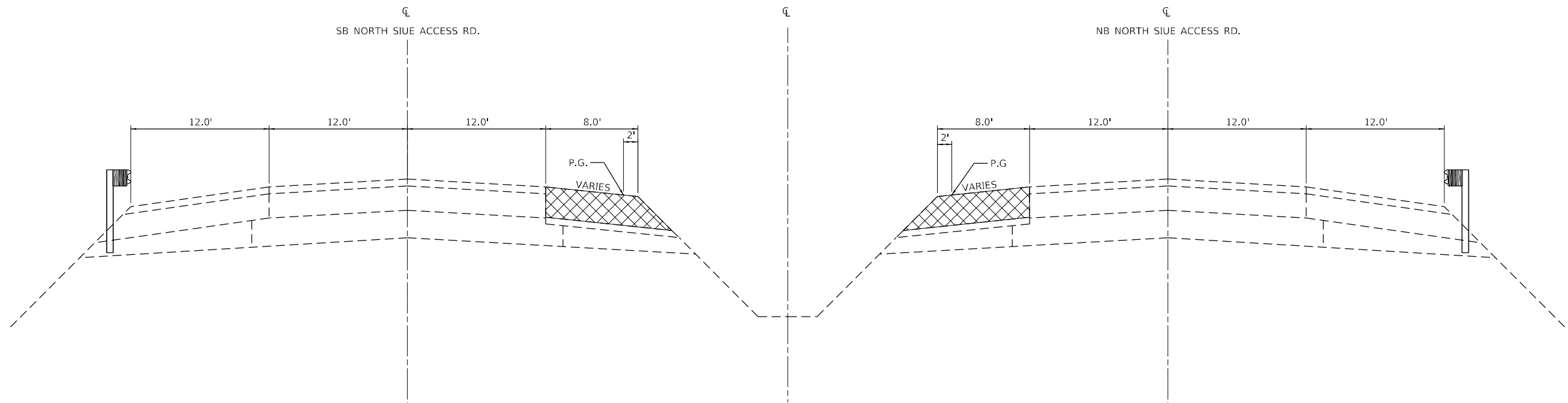
BENTON & ASSOCIATES, INC.
 CONSULTING ENGINEERS - LAND SURVEYORS
 1910 WEST LAFAYETTE AVE.
 JACKSONVILLE, IL 62550
 PHONE: 217-245-4140 FAX: 217-245-4149
 IL DESIGN FIRM REGISTRATION NO. 184-000832

USER NAME = drunoll	DESIGNED - DSR	REVISED -
DRAWN - DSR	CHECKED - WJS	REVISED -
PLOT SCALE = 100,0000' / in.	DATE - 06/27/2023	REVISED -
PLOT DATE = 6/28/2023		

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

TYPICAL SECTIONS			
SCALE:	SHEET 3	OF 5 SHEETS	STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8885	BI	MADISON	76	11
CONTRACT NO. 76F88				
ILLINOIS FED. AID PROJECT				



TYPICAL CROSSOVER CROSS SECTION (STAGE 3)

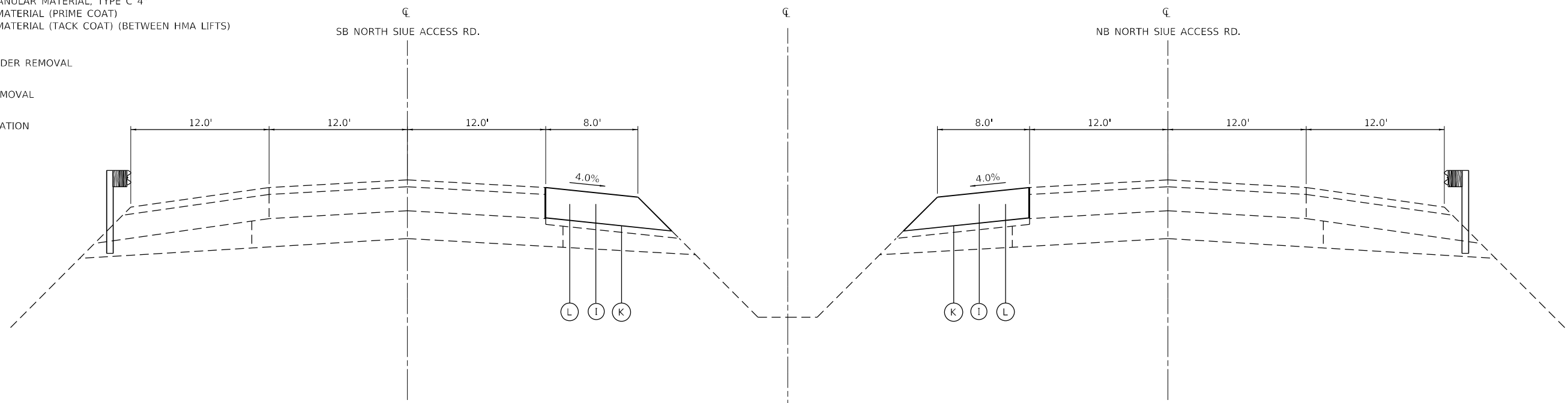
STA. 511+45.00 TO STA. 512+45.00
 STA. 517+00.00 TO STA. 517+50.00
 STA. 526+50.00 TO STA. 527+50.00
 STA. 531+10.00 TO STA. 532+10.00

NOTE: SEE SUGGESTED STAGES OF CONSTRUCTION AND TRAFFIC CONTROL SHEETS & DRAINAGE SHEETS FOR ADDITIONAL DETAILS

LEGEND

- ① EXISTING HMA SHOULDER
- ② EXISTING SUB-BASE GRANULAR MATERIAL, TYPE A 8"
- ③ EXISTING CONTINUOUSLY REINFORCED C.R.C.P. PAVEMENT 7"
- ④ EXISTING SUB-BASE TYPE C
- ⑤ EXISTING HMA OVERLAY 2 1/2"
- Ⓐ PROPOSED SUB-BASE GRANULAR MATERIAL, TYPE C
- Ⓑ PROPOSED P.C.C. SHOULDER 9.5"
- Ⓒ PROPOSED C.R.C.P. PAVEMENT 9.5"
- Ⓓ PROPOSED STABILIZED SUB-BASE 4"
- Ⓔ PROPOSED AGGREGATE SUBGRADE IMPROVEMENT 12"
- Ⓕ PROPOSED SLOTTED DRAIN WITH VARIABLE SLOT
- Ⓖ PROPOSED EMBANKMENT
- Ⓜ PROPOSED HMA PAVEMENT (FULL DEPTH) 8.75"
- Ⓨ PROPOSED HMA SHOULDER 8.75"
- Ⓣ PROPOSED SUB-BASE GRANULAR MATERIAL, TYPE C 4"
- Ⓚ PROPOSED BITUMINOUS MATERIAL (PRIME COAT)
- Ⓛ PROPOSED BITUMINOUS MATERIAL (TACK COAT) (BETWEEN HMA LIFTS)

- PROPOSED PAVED SHOULDER REMOVAL
- PROPOSED PAVEMENT REMOVAL
- PROPOSED EARTH EXCAVATION



TYPICAL CROSSOVER CROSS SECTION (STAGE 3)

STA. 511+45.00 TO STA. 512+45.00
 STA. 517+00.00 TO STA. 517+50.00
 STA. 526+50.00 TO STA. 527+50.00
 STA. 531+10.00 TO STA. 532+10.00

NOTE: SEE SUGGESTED STAGES OF CONSTRUCTION AND TRAFFIC CONTROL SHEETS & DRAINAGE SHEETS FOR ADDITIONAL DETAILS

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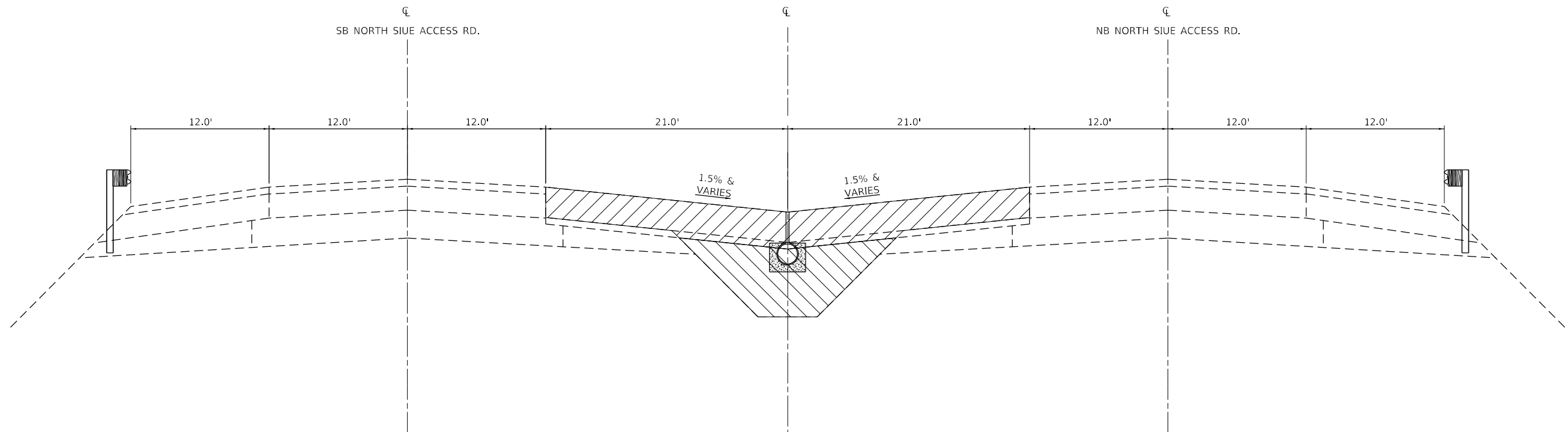


USER NAME = drunoll	DESIGNED - DSR	REVISED -
PLOT SCALE = 100,000' / in.	DRAWN - DSR	REVISED -
PLOT DATE = 6/28/2023	CHECKED - WJS	REVISED -
	DATE - 06/27/2023	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

TYPICAL SECTIONS			
SCALE:	SHEET 4	OF 5 SHEETS	STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8885	BI	MADISON	76	12
CONTRACT NO. 76F88				
ILLINOIS FED. AID PROJECT				



TYPICAL PROPOSED CROSSOVER CROSS SECTION (STAGE 3)

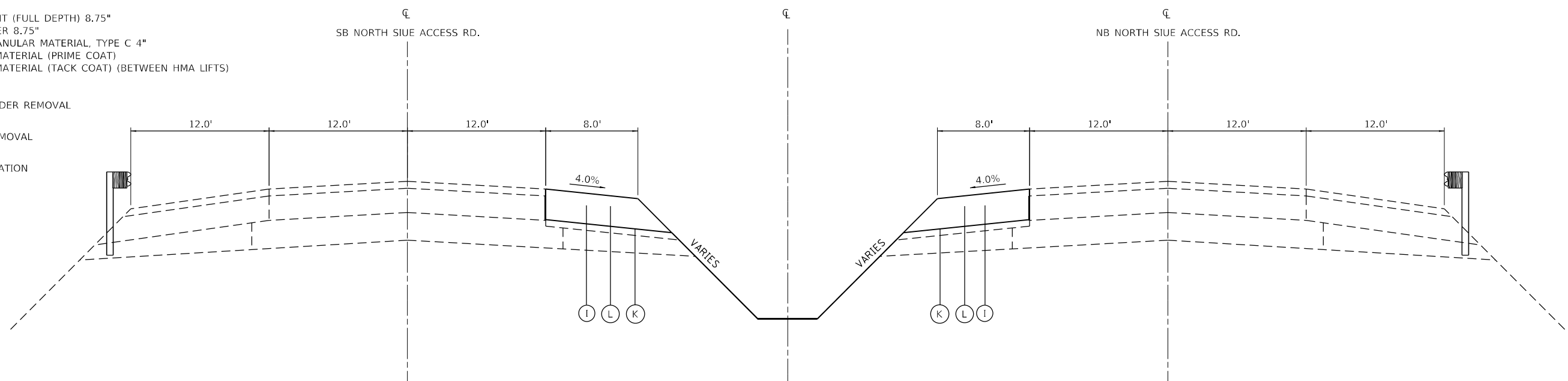
STA. 512+45.00 TO STA. 517+00.00
 STA. 527+50.00 TO STA. 531+10.00

NOTE: SEE SUGGESTED STAGES OF CONSTRUCTION AND TRAFFIC CONTROL SHEETS & DRAINAGE SHEETS FOR ADDITIONAL DETAILS

LEGEND

- ① EXISTING HMA SHOULDER
- ② EXISTING SUB-BASE GRANULAR MATERIAL, TYPE A 8"
- ③ EXISTING CONTINUOUSLY REINFORCED C.R.C.P. PAVEMENT 7"
- ④ EXISTING SUB-BASE TYPE C
- ⑤ EXISTING HMA OVERLAY 2 1/2"
- Ⓐ PROPOSED SUB-BASE GRANULAR MATERIAL, TYPE C
- Ⓑ PROPOSED P.C.C. SHOULDER 9.5"
- Ⓒ PROPOSED C.R.C.P. PAVEMENT 9.5"
- Ⓓ PROPOSED STABILIZED SUB-BASE 4"
- Ⓔ PROPOSED AGGREGATE SUBGRADE IMPROVEMENT 12"
- Ⓕ PROPOSED SLOTTED DRAIN WITH VARIABLE SLOT
- Ⓖ PROPOSED EMBANKMENT
- Ⓗ PROPOSED HMA PAVEMENT (FULL DEPTH) 8.75"
- Ⓘ PROPOSED HMA SHOULDER 8.75"
- Ⓛ PROPOSED SUB-BASE GRANULAR MATERIAL, TYPE C 4"
- Ⓚ PROPOSED BITUMINOUS MATERIAL (PRIME COAT)
- Ⓛ PROPOSED BITUMINOUS MATERIAL (TACK COAT) (BETWEEN HMA LIFTS)

- ▨ PROPOSED PAVED SHOULDER REMOVAL
- ▨ PROPOSED PAVEMENT REMOVAL
- ▨ PROPOSED EARTH EXCAVATION



TYPICAL PROPOSED CROSSOVER CROSS SECTION (STAGE 3)

STA. 512+45.00 TO STA. 517+00.00
 STA. 527+50.00 TO STA. 531+10.00

NOTE: SEE SUGGESTED STAGES OF CONSTRUCTION AND TRAFFIC CONTROL SHEETS & DRAINAGE SHEETS FOR ADDITIONAL DETAILS

MODEL: D:\p\h\... FILE NAME: P:\2023\887-3176888_Section_B1\CADD_Sheets\0756888_rht-typical.dgn

BA BENTON & ASSOCIATES, INC.
 CONSULTING ENGINEERS - LAND SURVEYORS
 1910 WEST LAFFAYETTE AVE.
 JACKSONVILLE, IL 62650
 PHONE: 217-245-4140 FAX: 217-245-4149
 IL DESIGN FIRM REGISTRATION NO. 184-000832

USER NAME = drunroll	DESIGNED - DSR	REVISED -
DRAWN - DSR	REVISIONS -	
PLOT SCALE = 100,0000' / in.	CHECKED - WJS	REVISIONS -
PLOT DATE = 6/28/2023	DATE - 06/27/2023	REVISIONS -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

TYPICAL SECTIONS			
SCALE:	SHEET 5	OF 5 SHEETS	STA. TO STA.

F.A.U. RTE. 8885	SECTION BI	COUNTY MADISON	TOTAL SHEETS 76	SHEET NO. 13
CONTRACT NO. 76F88				
ILLINOIS FED. AID PROJECT				

GUARDRAIL SCHEDULE																		
LOCATIONS					GUARDRAIL REMOVAL	TEMPORARY STEEL PLATE BEAM GUARDRAIL, TYPE A	TEMPORARY TRAFFIC BARRIER TERMINAL, TYPE 6	TEMPORARY TRAFFIC BARRIER TERMINAL, TYPE 1	TERMINAL MARKER DIRECT APPLIED	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	STEEL PLATE BEAM GUARDRAIL, TYPE A (SPECIAL)	TRAFFIC BARRIER TERMINAL, TYPE 5	TRAFFIC BARRIER TERMINAL, TYPE 6	GUARDRAIL REFLECTORS, TYPE A	BARRIER WALL REFLECTORS, TYPE B	BARRIER WALL REFLECTORS, TYPE C		
STA.	TO	STA.	LANE	SIDE	FOOT	FOOT	EACH	EACH	EACH	FOOT	FOOT	EACH	EACH	EACH	EACH	EACH		
PRESTAGE																		
521+82.79	TO	522+20.29	NB	RT	137.5	62.5	1											
522+20.29	TO	522+82.79		RT														
522+82.79	TO	523+20.29		RT					1		1							
STAGE 1																		
524+97.49	TO	525+34.99	SB	LT	137.5	62.5	1											
525+34.99	TO	525+97.49		LT														
525+97.49	TO	526+34.99		LT					1		1							
522+17.88	TO	523+19.14	SB	RT	101.3													
522+17.88	TO	522+30.38		RT								12.5						
522+30.38	TO	522+80.38		RT								50.0				2		
522+80.38	TO	523+17.88	SB	LT	101.3								1					
522+18.28	TO	523+19.53		LT														
522+18.28	TO	522+30.78		LT								12.5				2		
522+30.78	TO	522+80.78	SB	LT	127.0													
522+80.78	TO	523+18.28		LT								50.0				2		
524+97.47	TO	526+24.44		RT														
524+98.67	TO	525+11.94	SB	RT														
525+11.94	TO	526+11.94		RT								100.0		1		2		
526+11.94	TO	526+24.44		RT									12.5					
STAGE 2																		
522+18.28	TO	523+20.41	NB	LT	102.1													
522+18.28	TO	522+30.78		LT									12.5			2		
522+30.78	TO	523+05.78		LT								75.0						
523+05.78	TO	523+19.05	NB	RT	126.2							1						
524+98.31	TO	526+24.46		RT														
524+99.46	TO	525+36.96		RT											1			
525+36.96	TO	526+11.96	NB	RT	126.2													
526+11.96	TO	526+24.46		RT								75.0				2		
524+98.65	TO	526+24.86		LT									12.5					
524+99.86	TO	525+37.36	NB	LT									1					
525+37.36	TO	526+12.36		LT								75.0				2		
526+12.36	TO	526+24.86		LT									12.5					
BRIDGES															12	12		
SUBTOTAL					959.1	125.0	2.0	2.0	2.0	425.0	75.0	2.0	4.0	12.0	12.0	12.0		
TOTAL					959.0	125.0	2	2	2	425.0	75.0	2	4	12	12	12		

RIGHT-OF-WAY AND SECTION CORNER MARKERS

PAY ITEM 66600105 Z0064505

STATION	OFFSET	FURNISHING AND ERECTING RIGHT-OF-WAY MARKER	REPLACING SECTION CORNER MARKERS
516+50.08	189.99' RT	1	
517+00.06	200.01' LT	1	
523+51.89	208.73' RT	1	
523+52.10	189.96' RT	1	
523+66.64	220.04' LT	1	
523+66.88	241.16' LT	1	
524+61.88	209.95' RT	1	
524+64.54	30.32' RT		1
524+66.87	240.05' LT	1	
526+00.06	240.05' LT	1	
527+00.08	209.94' RT	1	
532+00.06	140.08' LT	1	
532+00.08	129.92' RT	1	
TOTAL QUANTITY		12	1

TEMPORARY CONCRETE BARRIER SCHEDULE				
LOCATIONS		TEMPORARY CONCRETE BARRIER	RELOCATE TEMPORARY CONCRETE BARRIER	
STA.	TO	FOOT	FOOT	
STAGE 1				
512+49.67	TO	516+74.19	425.0	
516+74.19	TO	527+61.69	1087.5	
527+61.69	TO	530+72.74	312.5	
STAGE 2				
513+34.89	TO	516+45.94		312.5
516+45.94	TO	527+70.94		1125.0
527+70.94	TO	531+57.98		387.5
SUBTOTAL		1825.0	1825.0	
TOTAL		1825	1825	

PAVEMENT MARKING SCHEDULE								
LOCATIONS		LENGTH	PREFORMED PLASTIC PAVEMENT MARKING, TYPE D - STANDARD - LINE 4"			GROOVING FOR RECESSED PAVEMENT MARKING 5"	PAVEMENT MARKING REMOVAL - WATER BLASTING	
STA.	TO	FOOT	WHITE EDGE LINE	YELLOW EDGE LINE	WHITE SKIP-DASH	FOOT	SQ FT	
522+50.00	TO	526+00.00	350.00	700.0	700.0	175.0	1575.0	
SUBTOTAL			700	700	175	1575.0	525.0	
TOTAL				1575		1575	525	

RRPM SCHEDULE				
LOCATIONS		RAISED REFLECTIVE PAVEMENT MARKER	RAISED REFLECTOR PAVEMENT MARKER REMOVAL	
STA.	TO	ONE-WAY CRYSTAL EACH	EACH	
522+50.00	TO	523+02.48	4	4
525+14.48	TO	526+00.00	6	6
TOTAL		10	10	

APPLICATION RATES:

AGGREGATE (SURFACE, BASE, & BACKFILL)	2.05 TON/CU YD
TEMPORARY EROSION CONTROL SEEDING	100 LB/ACRE
NITROGEN FERTILIZER NUTRIENT	90 LB/ACRE
PHOSPHORUS FERTILIZER NUTRIENT	90 LB/ACRE
POTASSIUM FERTILIZER NUTRIENT	90 LB/ACRE
MULCH	2 TON/ACRE
BITUMINOUS MATERIAL (TACK COAT)	0.05 LB/SQ FT (PCC, EX. HMA, MILLED HMA)
	0.025 LB/SQ FT (BETWEEN HMA LIFTS)
BITUMINOUS MATERIAL (PRIME COAT)	0.25 LB/SQ FT

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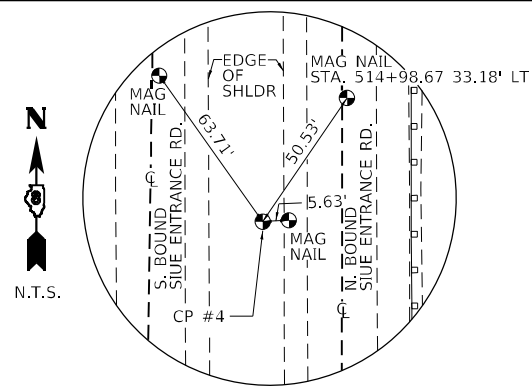
BENTON & ASSOCIATES, INC.
CONSULTING ENGINEERS - LAND SURVEYORS
1910 WEST LAFAYETTE AVE.
JACKSONVILLE, IL 62555
PHONE: 217-245-4140 FAX: 217-245-4149
IL DESIGN FIRM REGISTRATION NO. 184-000832

USER NAME = drunoll	DESIGNED - DSR	REVISED -
PLOT SCALE = 100,0000' / in.	DRAWN - DSR	REVISED -
PLOT DATE = 6/28/2023	CHECKED - WJS	REVISED -
	DATE - 06/27/2023	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

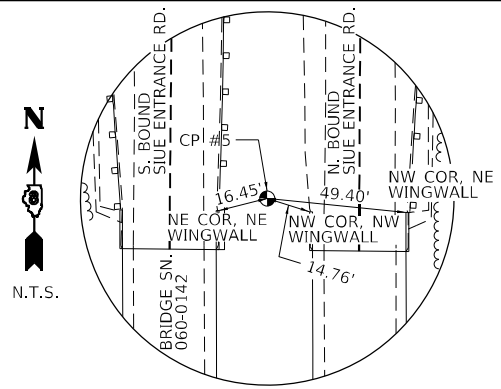
SCHEDULE OF QUANTITIES			
SCALE:	SHEET	OF	SHEETS
	2	3	
	STA.		TO STA.

F.A.U. RTE. 8885	SECTION BI	COUNTY MADISON	TOTAL SHEETS 76	SHEET NO. 15
CONTRACT NO. 76F88				
ILLINOIS FED. AID PROJECT				



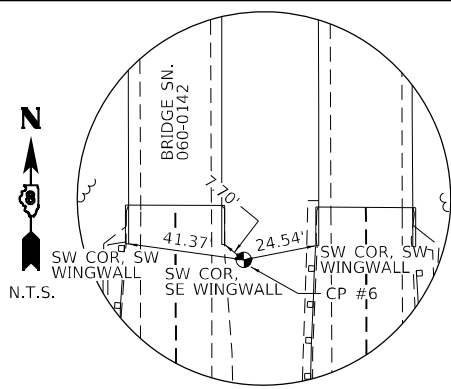
CONTROL POINT #4

1/2" REBAR WITH IDOT CAP
 APPROX. 0.5 MILES FROM NEW POAG
 RD. & UNIVERSITY DR.
 N: 784607.9499
 E: 345968.7178



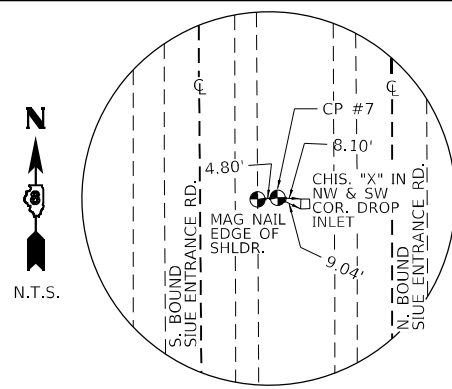
CONTROL POINT #5

1/2" REBAR WITH IDOT CAP
 N: 783834.9478
 E: 345964.0825



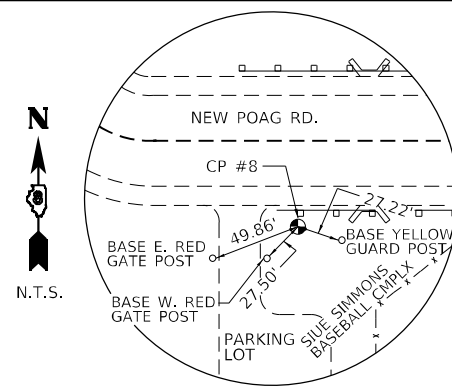
CONTROL POINT #6

1/2" REBAR WITH IDOT CAP
 N: 783647.7069
 E: 345954.2047



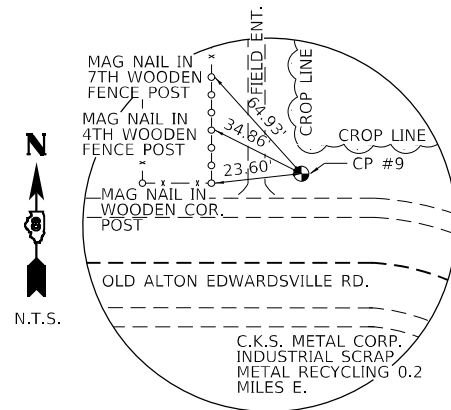
CONTROL POINT #7

1/2" REBAR WITH IDOT CAP
 N: 782852.9351
 E: 345956.6429



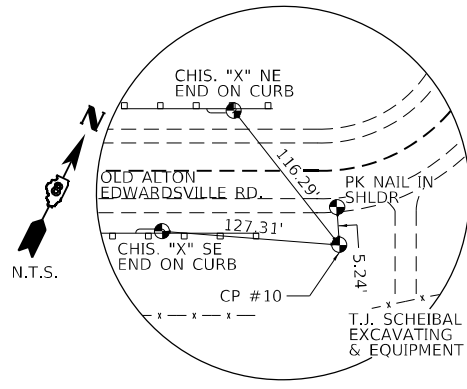
CONTROL POINT #8

1/2" REBAR WITH IDOT CAP
 N: 776793.8940
 E: 338670.9320



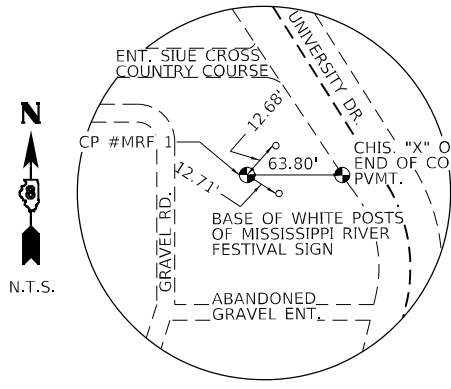
CONTROL POINT #9

1/2" REBAR WITH IDOT CAP
 APPROX. 0.4 MILES FROM BEMDER HILL RD. &
 OLD ALTON EDWARDSVILLE RD.
 N: 788718.1500
 E: 342237.2808



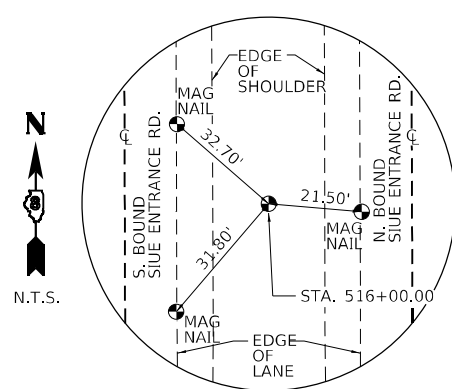
CONTROL POINT #10

1/2" REBAR WITH IDOT CAP
 N: 784858.5635
 E: 350404.9949



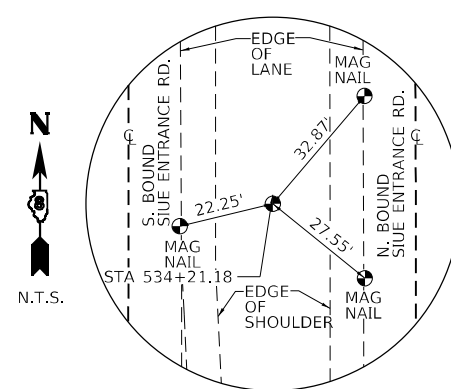
CONTROL POINT #MRF 1

1/2" REBAR WITH IDOT CAP
 APPROX. 0.3 MILES FROM NEW POAG
 RD. & UNIVERSITY DR.
 N: 780629.7637
 E: 346885.4746



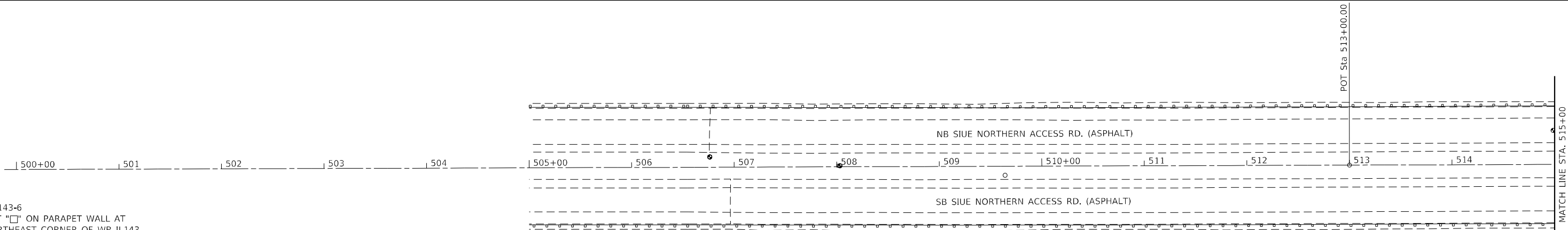
CENTERLINE STATION 516+00.00

SET REBAR
 N: 784550.5909
 E: 345960.5688

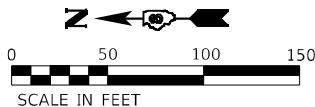


CENTERLINE STATION 534+21.18

SET REBAR
 N: 782729.4225
 E: 345966.5856



BM143-6
 CUT "□" ON PARAPET WALL AT
 NORTHEAST CORNER OF WB IL143
 BRIDGE (SN 060-0191) OVER THE NORTH
 SIUE ENTRANCE.



EXISTING CENTERLINE SIUE ENTRANCE ROAD		
DESCRIPTION	NORTHING	EASTING
POT STA. 513+00.00	784850.5892	345959.5777
POT STA. 524+08.48	783742.1153	345963.2399
POT STA. 534+21.18	782729.4225	345966.5856

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 DATE - 06/27/2023
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 PLOT DATE = 6/28/2023

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 DRAWN - CMS
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 DATE - 06/27/2023

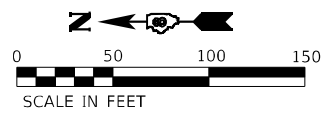
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

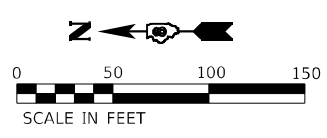
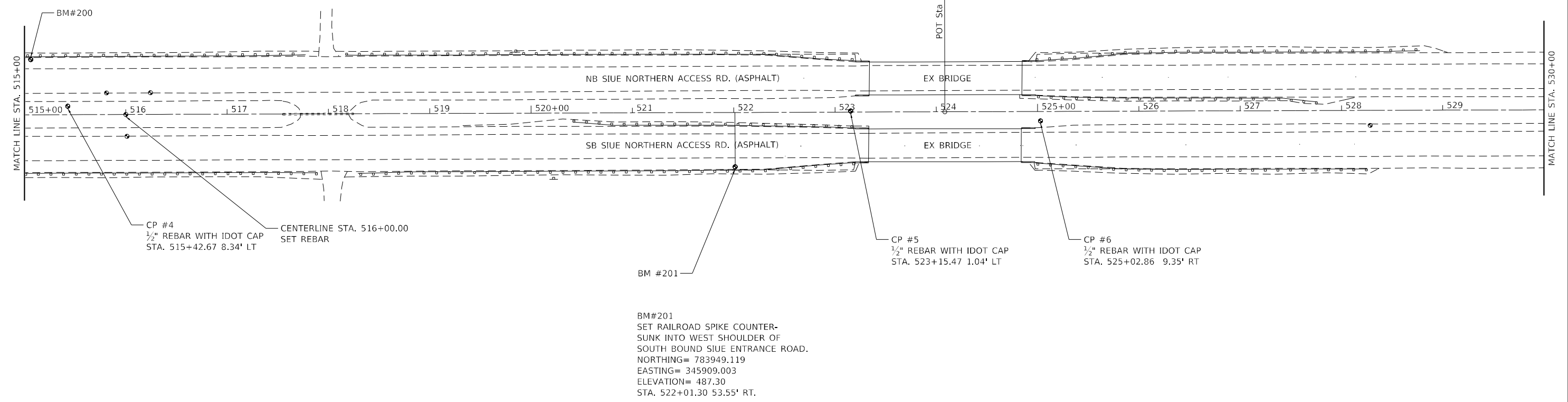
ALIGNMENT, TIES, AND BENCHMARKS

SCALE: 1"=50' SHEET 1 OF 2 SHEETS STA. 505+00 TO STA. 515+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8885	BI	MADISON	76	17
CONTRACT NO. 76F88				
ILLINOIS FED. AID PROJECT				



BM#200
 SET RAILROAD SPIKE COUNTER-
 SUNK INTO PAVEMENT EAST SHOULDER
 NOTHING= 784644.485
 EASTING= 346014.782
 ELEVATION= 466.78
 STA. 515+06.29 54.52 LT



CP #7
 1/2" REBAR WITH IDOT CAP
 STA. 532+97.65 9.53' RT



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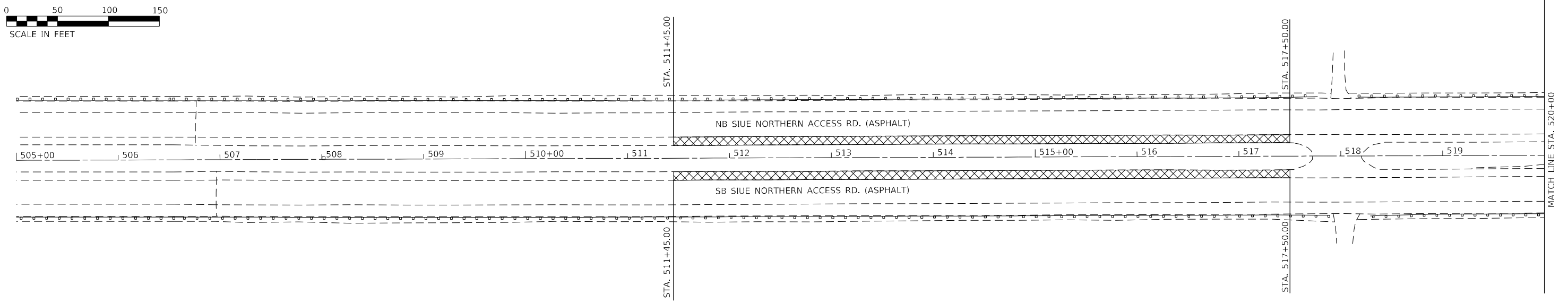
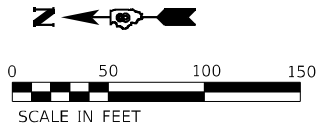


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PLOT DATE = 6/28/2023	CHECKED - WJS	REVISED -
	DATE - 06/27/2023	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

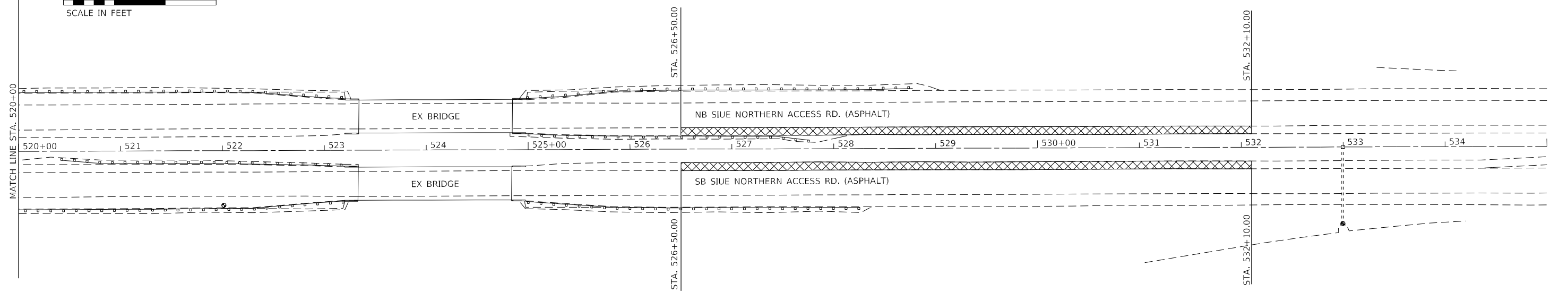
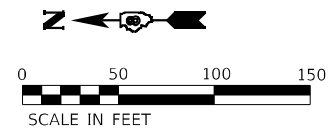
ALIGNMENT, TIES, AND BENCHMARKS			
SCALE: 1"=50'	SHEET 2	OF 2	SHEETS
STA. 515+00	TO STA. 540+00		

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8885	BI	MADISON	76	18
CONTRACT NO. 76F88				
ILLINOIS FED. AID PROJECT				



LEGEND

- PAVED SHOULDER REMOVAL
- PAVEMENT REMOVAL



LEGEND

- PAVED SHOULDER REMOVAL
- PAVEMENT REMOVAL

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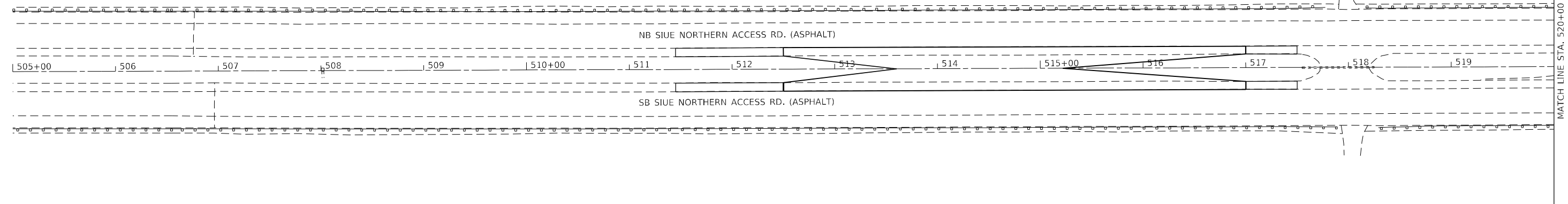
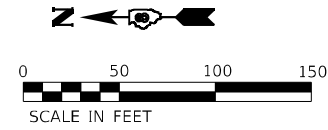
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PLOT DATE = 6/28/2023	CHECKED - WJS	REVISED -
	DATE - 06/27/2023	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**REMOVAL SHEETS
(PRESTAGE REMOVAL)**

SCALE: SHEET 1 OF 4 SHEETS STA. 505+00.00 TO STA. 535+00.00

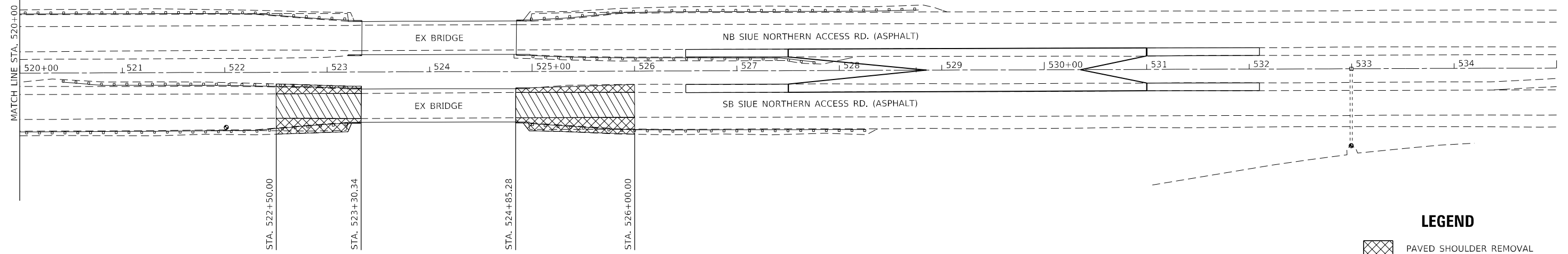
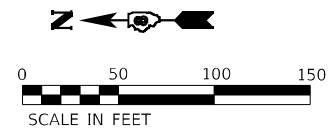
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8885	BI	MADISON	76	19
CONTRACT NO. 76F88				
ILLINOIS FED. AID PROJECT				



LEGEND

- PAVED SHOULDER REMOVAL
- PAVEMENT REMOVAL

MATCH LINE STA. 520+00



LEGEND

- PAVED SHOULDER REMOVAL
- PAVEMENT REMOVAL

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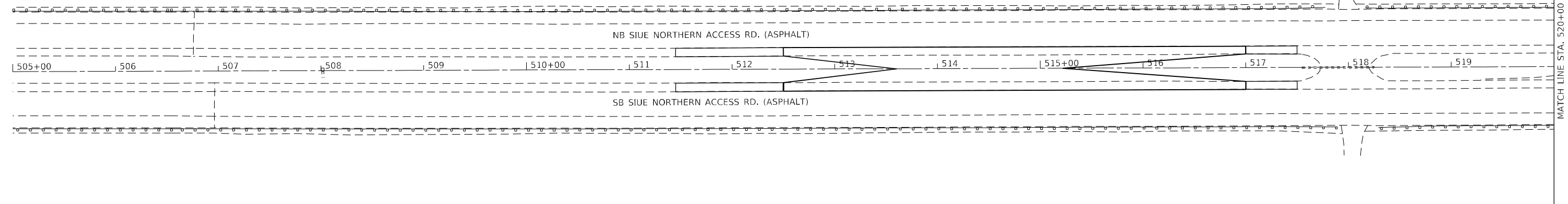
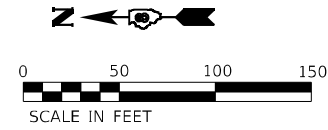
BA BENTON & ASSOCIATES, INC.
CONSULTING ENGINEERS - LAND SURVEYORS
1910 WEST LAFALETTE AVE.
JACKSONVILLE, IL 62650
PHONE: 217-245-4140 FAX: 217-245-4149
IL DESIGN FIRM REGISTRATION NO. 184-000832

USER NAME = drunoll	DESIGNED - DSR	REVISED -
PLOT SCALE = 100,0000' / in.	DRAWN - DSR	REVISED -
PLOT DATE = 6/28/2023	CHECKED - WJS	REVISED -
	DATE - 06/27/2023	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

REMOVAL SHEETS (STAGE 1 REMOVAL)			
SCALE:	SHEET 2	OF 4 SHEETS	STA. 505+00.00 TO STA. 535+00.00

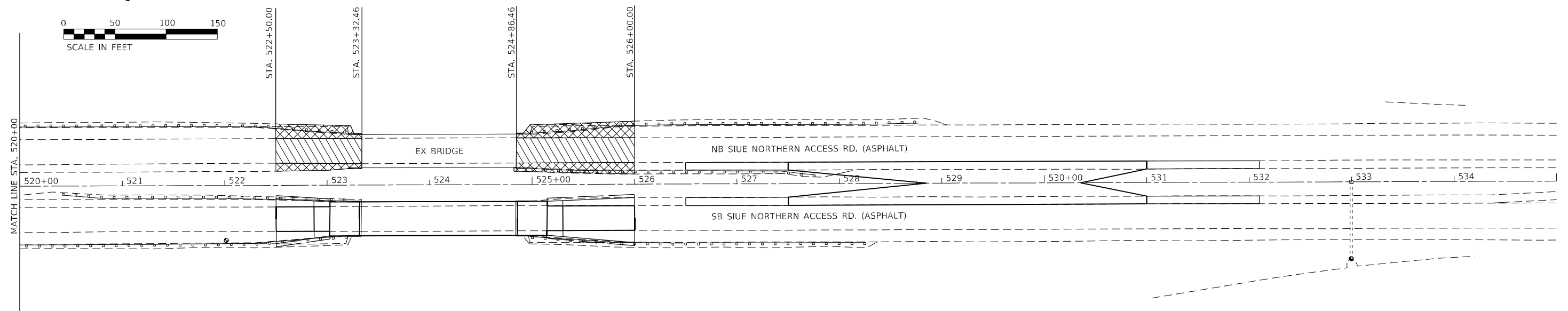
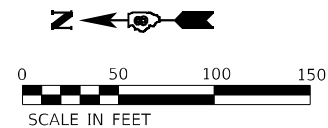
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8885	BI	MADISON	76	20
CONTRACT NO. 76F88				
ILLINOIS FED. AID PROJECT				



LEGEND

- PAVED SHOULDER REMOVAL
- PAVEMENT REMOVAL

MATCH LINE STA. 520+00



LEGEND

- PAVED SHOULDER REMOVAL
- PAVEMENT REMOVAL

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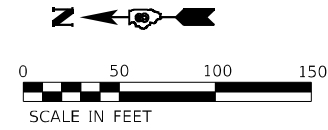
BA BENTON & ASSOCIATES, INC.
CONSULTING ENGINEERS - LAND SURVEYORS
1910 WEST LAFALETTE AVE.
JACKSONVILLE, IL 62650
PHONE: 217-245-4140 FAX: 217-245-4149
IL DESIGN FIRM REGISTRATION NO. 184-000832

USER NAME = drunoll	DESIGNED - DSR	REVISED -
PLOT SCALE = 100,0000' / in.	DRAWN - DSR	REVISED -
PLOT DATE = 6/28/2023	CHECKED - WJS	REVISED -
	DATE - 06/27/2023	REVISED -

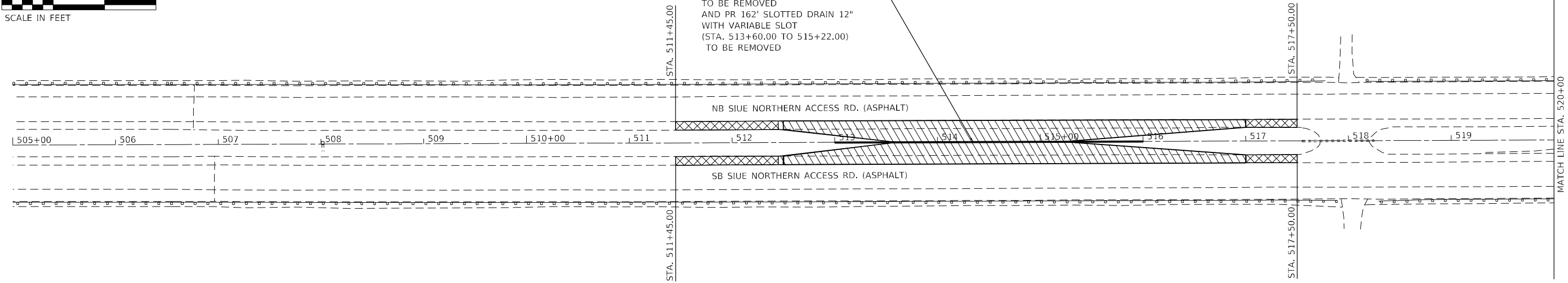
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

REMOVAL SHEETS (STAGE 2 REMOVAL)			
SCALE:	SHEET 3	OF 4 SHEETS	STA. 505+00.00 TO STA. 535+00.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8885	BI	MADISON	76	21
CONTRACT NO. 76F88				
ILLINOIS FED. AID PROJECT				



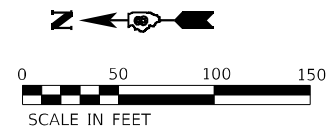
PR 138' PIPE CULVERT, CLASS C
TYPE 1 12" (TEMPORARY)
(STA. 513+00.00 TO 513+60.00)
(STA. 515+22.00 TO 516+0.00)
TO BE REMOVED
AND PR 162' SLOTTED DRAIN 12"
WITH VARIABLE SLOT
(STA. 513+60.00 TO 515+22.00)
TO BE REMOVED



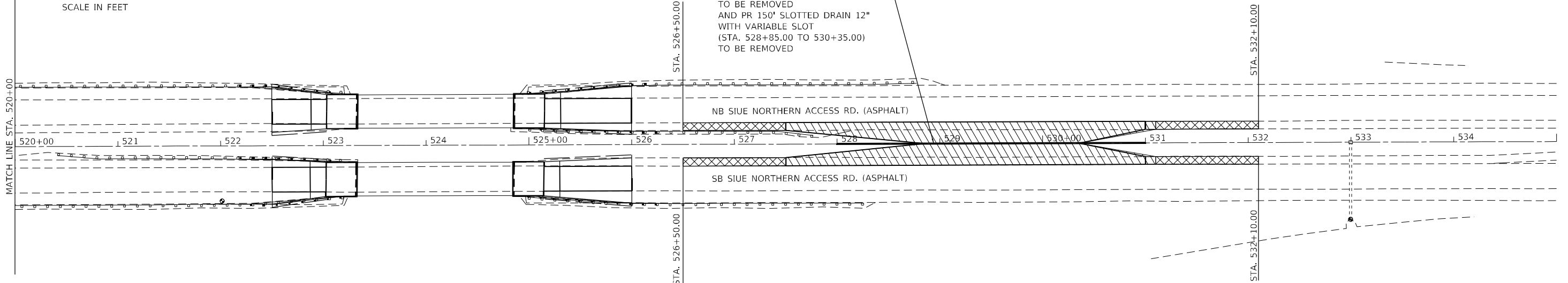
LEGEND

- PAVED SHOULDER REMOVAL
- PAVEMENT REMOVAL

MATCH LINE STA. 520+00



PR 150' PIPE CULVERT, CLASS C
TYPE 1 12" (TEMPORARY)
(STA. 528+00.00 TO 528+85.00)
(STA. 530+35.00 TO 531+0.00)
TO BE REMOVED
AND PR 150' SLOTTED DRAIN 12"
WITH VARIABLE SLOT
(STA. 528+85.00 TO 530+35.00)
TO BE REMOVED



LEGEND

- PAVED SHOULDER REMOVAL
- PAVEMENT REMOVAL

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BA BENTON & ASSOCIATES, INC.
CONSULTING ENGINEERS - LAND SURVEYORS
1910 WEST LAFALETTE AVE.
JACKSONVILLE, IL 62650
PHONE: 217-245-4140 FAX: 217-245-4149
IL DESIGN FIRM REGISTRATION NO. 184-000832

USER NAME =	druroll
PLOT SCALE =	100,0000' / in.
PLOT DATE =	6/28/2023

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DRAWN -	DSR
CHECKED -	WJS
DATE -	06/27/2023

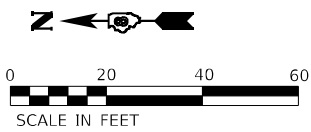
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REVISED -	

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**REMOVAL SHEETS
(STAGE 3 REMOVAL)**

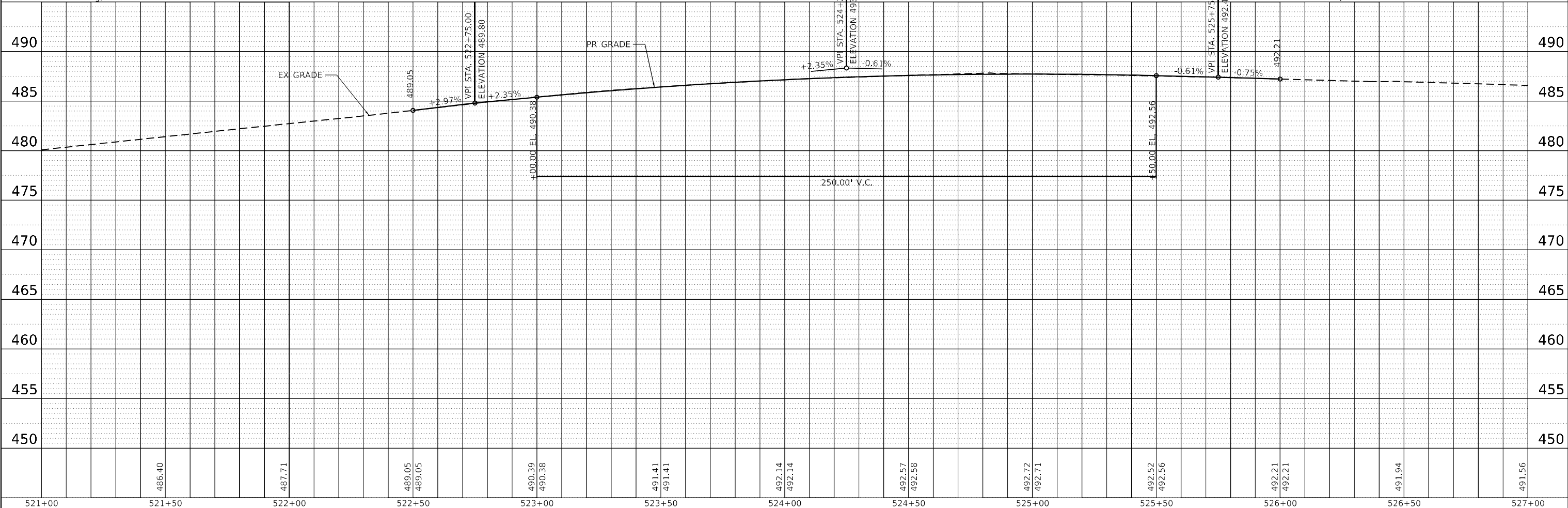
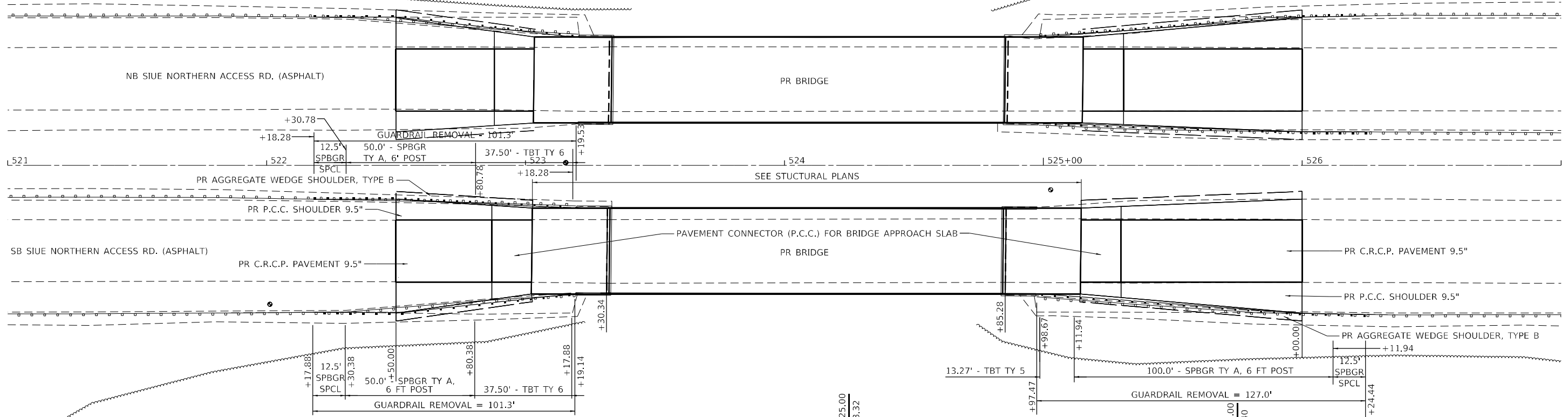
SCALE: SHEET 4 OF 4 SHEETS STA. 505+00.00 TO STA. 535+00.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8885	BI	MADISON	76	22
CONTRACT NO. 76F88				
ILLINOIS FED. AID PROJECT				



DATE	
BY	
PLAN	
NO.	
DATE	
BY	
PROFILE	
NO.	

DATE	
BY	
PROFILE	
NO.	



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521+00	486.40	522+00	487.71	523+00	490.39 490.38	524+00	492.14 492.14	525+00	492.72 492.71	526+00	492.21 492.21	527+00	491.56 491.56
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BENTON & ASSOCIATES, INC.
CONSULTING ENGINEERS / LAND SURVEYORS
1970 WEST LAFALETTE AVE.
JACKSONVILLE, IL 61830
PHONE: 217-243-8130 FAX: 217-243-8149
IL DESIGN FIRM REGISTRATION NO. 184-000852

USER NAME = drunroll	DESIGNED - DSR	REVISED -
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PLOT DATE = 6/28/2023	DATE - 06/27/2023	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

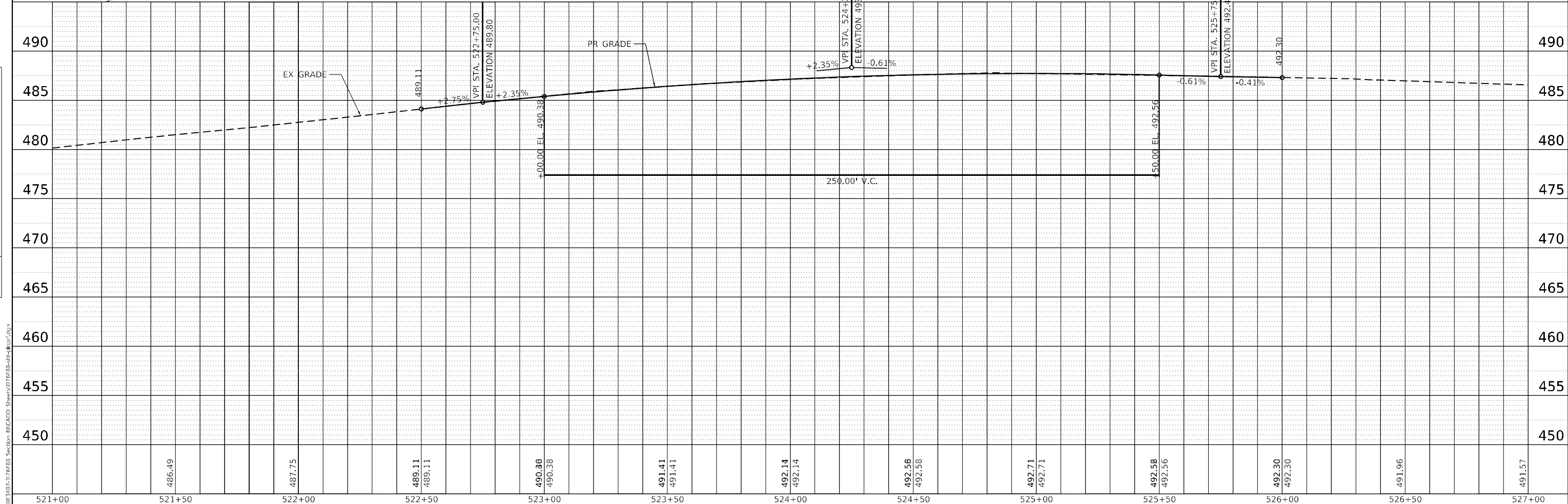
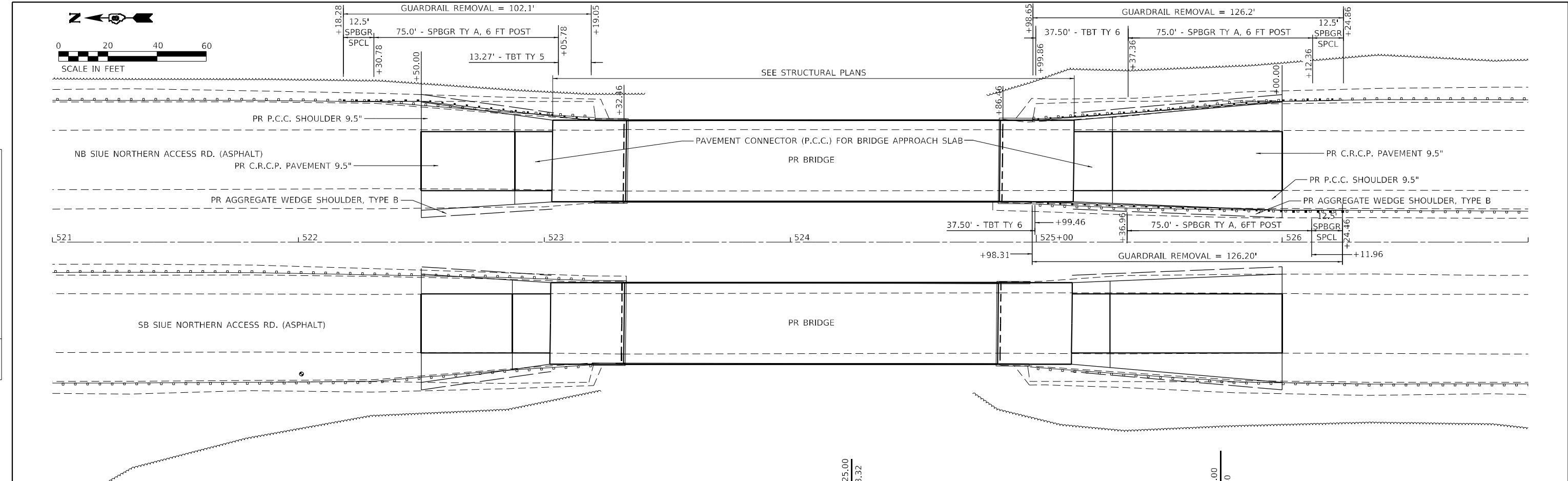
**PLAN AND PROFILE SHEET
(SB SIUE ACCESS RD.)**

SCALE: 1"=20' SHEET 1 OF 2 SHEETS STA. 521+00.00 TO STA. 527+00.00

F.A.U. RTE. 8885	SECTION BI	COUNTY MADISON	TOTAL SHEETS 76	SHEET NO. 23
ILLINOIS FED. AID PROJECT			CONTRACT NO. 76F88	

PLAN	SURVEYED	DATE
	PLOTTED	BY
	ALIGNMENT CHECKED	
	GRADES CHECKED	
	STRUCTURE NOTARIS SWID	
	NOTE BOOK NO.	
	CADD FILE NAME	

PROFILE	SURVEYED	DATE
	PLOTTED	BY
	GRADES CHECKED	
	STRUCTURE NOTARIS SWID	
	NOTE BOOK NO.	
	CADD FILE NAME	



521+00	486.49	522+00	487.75	523+00	490.38	524+00	492.14	525+00	492.71	526+00	492.30	527+00	491.57
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BENTON & ASSOCIATES, INC.
CONSULTING ENGINEERS / LAND SURVEYORS
1970 WEST LAFAYETTE AVE.
JACKSONVILLE, IL 61830
PHONE: 217-243-8130 FAX: 217-243-8139
IL DESIGN FIRM REGISTRATION NO. 184-000852

USER NAME = drunoll	DESIGNED - DSR	REVISED -
	DRAWN - DSR	REVISED -
PLOT SCALE = 40,0000 * / in.	CHECKED - WJS	REVISED -
PLOT DATE = 6/28/2023	DATE - 06/27/2023	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PLAN AND PROFILE SHEET
(NB SIUE ACCESS RD.)**

1"=20' SHEET 2 OF 2 SHEETS STA. 521+00.00 TO STA. 527+00.00

F.A.U. RTE. 8885	SECTION BI	COUNTY MADISON	TOTAL SHEETS 76	SHEET NO. 24
ILLINOIS FED. AID PROJECT			CONTRACT NO. 76F88	

NOTE:

PRESTAGE WORK IS REQUIRED TO BE COMPLETED PRIOR TO ANY OTHER STAGES OF CONSTRUCTION. SEE THE STRUCTURE PLANS FOR THE PROPOSED PRESTAGE WORK ON THE N.B. STRUCTURE.

SUGGESTED STAGES OF CONSTRUCTION - PRESTAGE

TRAFFIC:

1. PLACE CONSTRUCTION SIGNING AND COVER ANY EXSITING SIGNS THAT CONFLICT WITH WORK ZONE REQUIREMENTS.
2. MAINTAIN ONE LANE OF TRAFFIC IN EACH DIRECTION OF SIUE NORTH ACCESS ROAD DURING CONSTRUCTION HOURS.
3. NO PAVEMENT DROP-OFF CONDITIONS ALLOWED DURING NON- WORKING / CONSTRUCTION HOURS. PAVEMENT EDGE TREATMENT TO BE PLACED AS NECESSARY TO MAINTAIN ONE LANE OF TRAFFIC IN EACH DIRECTION DURING NON- WORKING / CONSTRUCTION HOURS.
4. TRAFFIC WILL REMAIN IN EXISTING NORTHBOUND AND SOUTHBOUND SIUE NORTH ACCESS ROAD CONFIGURATIONS WITH CONSTRUCTION WORK OCCURING IN MEDIAN.

PRIMARY WORK ACTIVITIES:

1. CONSTRUCT TWO TEMPORARY PAVEMENT CROSSOVERS.
2. COMPLETE PRESTAGE STRUCTURAL REPAIRS
3. CONSTRUCT TEMPORARY GUARDRAIL FOR STAGE 1

SUGGESTED STAGES OF CONSTRUCTION - STAGE 1

TRAFFIC:

1. TRAFFIC IS SHIFTED FROM SOUTHBOUND SIUE NORTH ACCESS ROAD TO NORTHBOUND SIUE NORTH ACCESS ROAD VIA TEMPORARY CROSSOVERS.
2. MAINTAIN ONE LANE OF TRAFFIC IN EACH DIRECTION OF SIUE NORTH ACCESS ROAD.
3. CONSTRUCT TEMPORARY GUARDRAIL FOR STAGE 2

PRIMARY WORK ACTIVITIES:

1. PERFORM BRIDGE SUPERSTRUCTURE REPLACEMENT AND OTHER REPAIRS ON SOUTHBOUND SIUE NORTH ACCESS ROAD.

SUGGESTED STAGES OF CONSTRUCTION - STAGE 2

TRAFFIC:

1. RELOCATE TEMPORARY CONCRETE BARRIER FROM STAGE 1 TO STAGE 2.
2. TRAFFIC IS SHIFTED FROM NORTHBOUND SIUE NORTH ACCESS ROAD TO NEWLY CONSTRUCTED SOUTHBOUND SIUE NORTH ACCESS ROAD STRUCTURE VIA TEMPORARY CROSSOVERS.

PRIMARY WORK ACTIVITIES:

1. PERFORM BRIDGE SUPERSTRUCTURE REPLACEMENT AND OTHER REPAIRS ON NORTHBOUND SIUE NORTH ACCESS ROAD.

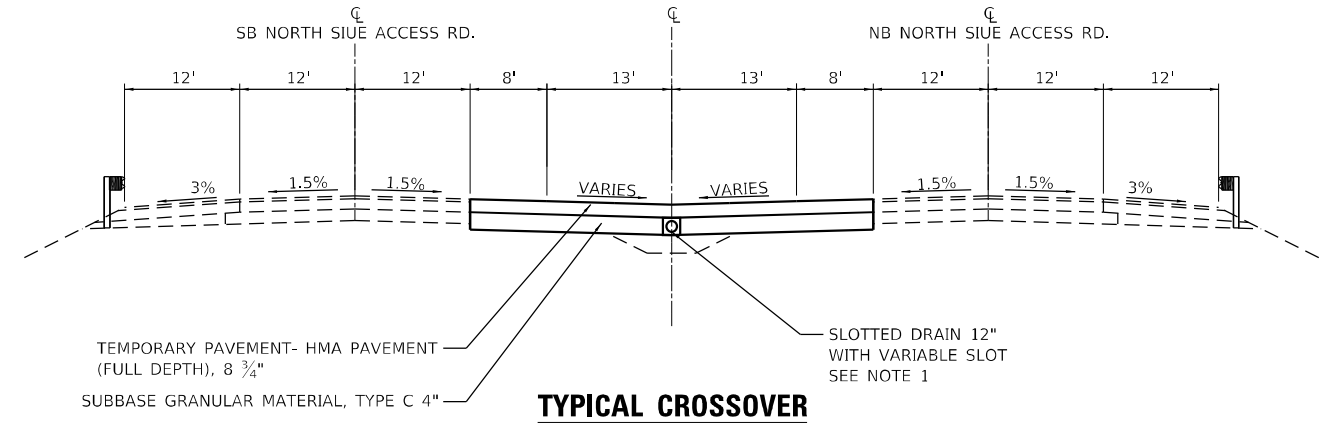
SUGGESTED STAGES OF CONSTRUCTION - STAGE 3

TRAFFIC:

1. NORTHBOUND AND SOUTHBOUND SIUE NORTH ACCESS ROAD WILL BE SHIFTED BACK TO RESPECTIVE LANES.
2. MAINTAIN ONE LANE OF TRAFFIC IN EACH DIRECTION OF SIUE NORTH ACCESS ROAD.

PRIMARY WORK ACTIVITIES:

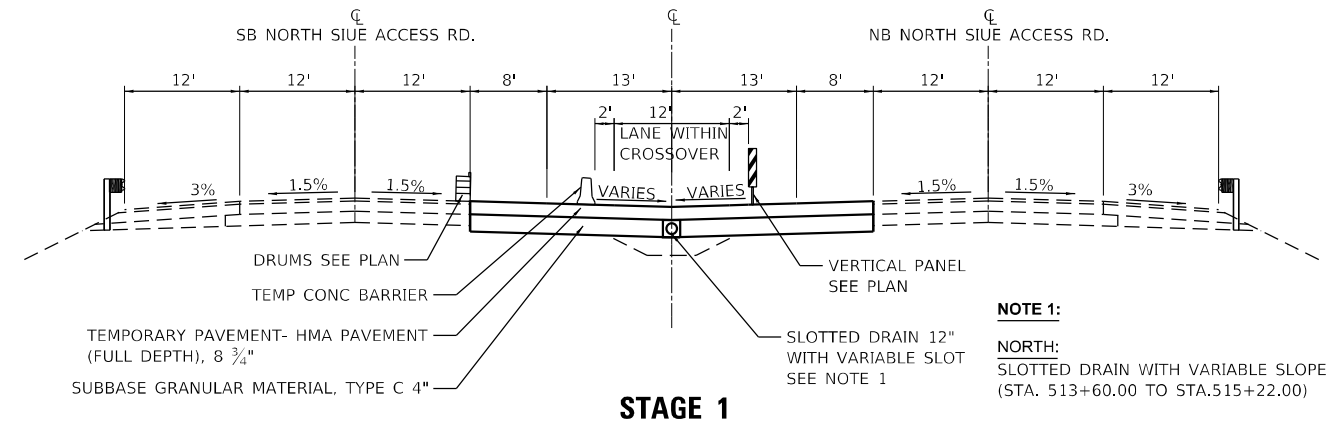
1. REMOVE TEMPORARY CROSSOVERS.
2. REMOVE TEMPORARY CLOSURES.
3. REGRADE MEDIAN DITCHES AND APPLY FINAL SEEDING AND MULCH IN THE AREAS OF THE TEMPORARY CROSSOVERS.
4. COMPLETE PUNCH LIST ITEMS.
5. COMPLETE MISCELLANEOUS ITEMS AS NEEDED.



TYPICAL CROSSOVER

NORTH OF BRIDGE TEMPORARY CROSSOVER
STA. 511+45 TO STA. 517+50

SOUTH OF BRIDGE TEMPORARY CROSSOVER
STA. 526+50 TO STA. 532+00



STAGE 1

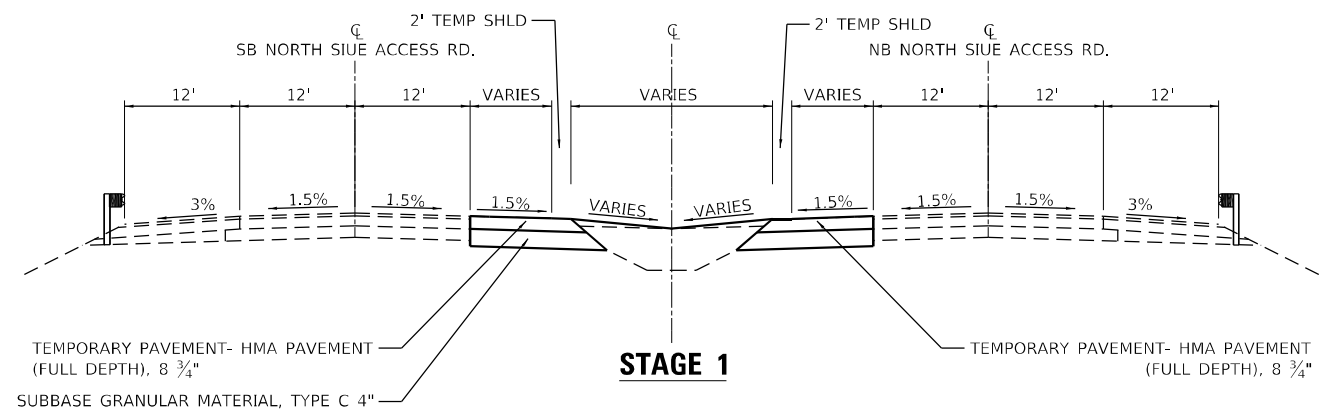
NOTE 1:

NORTH:
SLOTTED DRAIN WITH VARIABLE SLOPE
(STA. 513+60.00 TO STA.515+22.00)

PIPE CULVERT, CLASS C TYPE 1 12\"
(STA. 513+00.00 TO 513+60.00)
(STA. 515+22.00 TO 516+00.00)

SOUTH:
SLOTTED DRAIN WITH VARIABLE SLOT
(STA. 528+85.00 TO STA.530+35.00)

PIPE CULVERT, CLASS C TYPE 1 12\"
(STA. 528+00.00 TO 528+85.00)
(STA. 530+35.00 TO 531+00.00)



STAGE 1

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BENTON & ASSOCIATES, INC.
CONSULTING ENGINEERS - LAND SURVEYORS
1910 WEST LAFALETTE AVE.
JACKSONVILLE, IL 62650
PHONE: 217-245-4140 FAX: 217-245-4149
IL DESIGN FIRM REGISTRATION NO. 184-000932

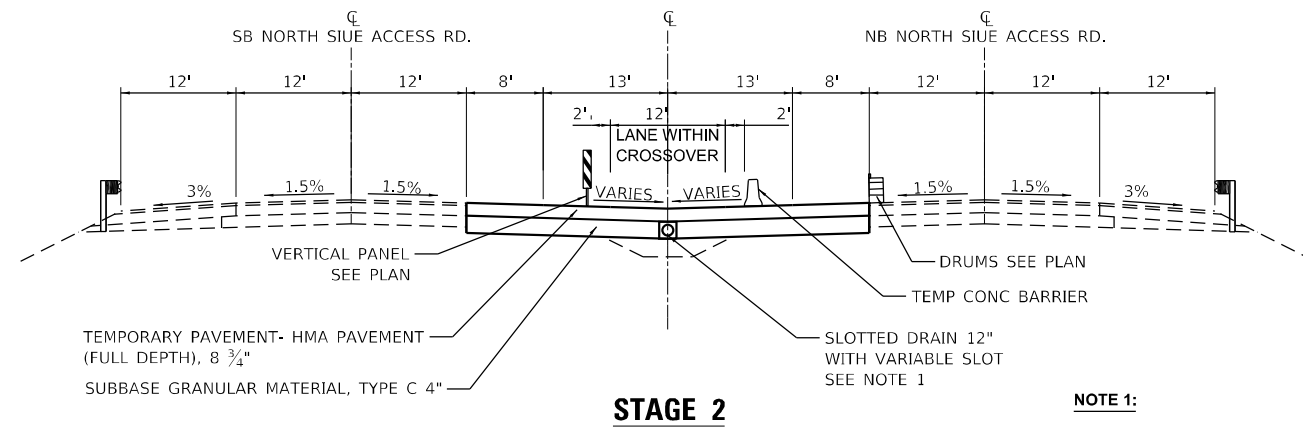
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PLOT DATE = 6/28/2023	CHECKED - WJS	REVISED -
	DATE - 06/27/2023	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**SUGGESTED STAGES OF CONSTRUCTION AND TRAFIC CONTROL
(SB LANES CLOSED)**

SCALE: SHEET 1 OF 8 SHEETS STA. TO STA.

F.A.U. RTE. 8885	SECTION BI	COUNTY MADISON	TOTAL SHEETS 76	SHEET NO. 25
ILLINOIS FED. AID PROJECT				



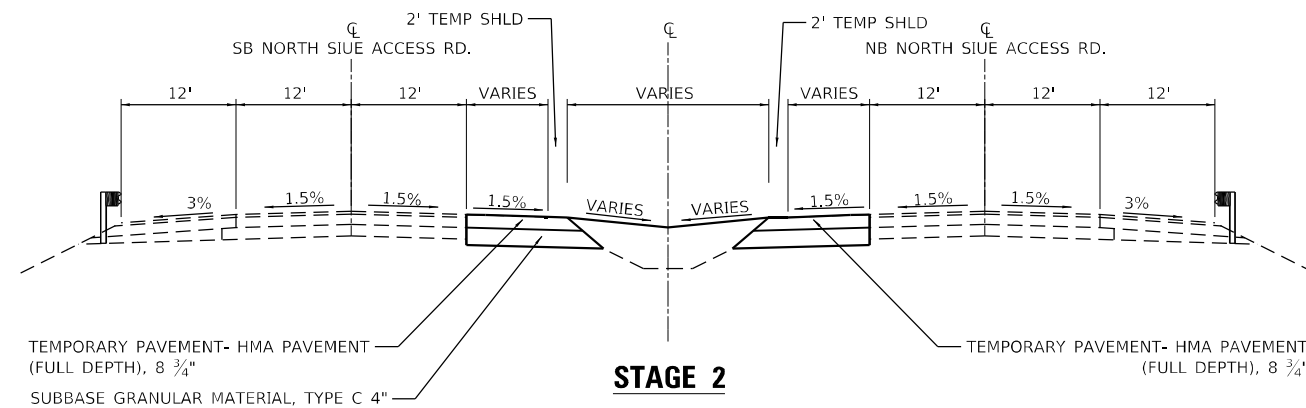
NOTE 1:

NORTH:
SLOTTED DRAIN WITH VARIABLE SLOPE
(STA. 513+60.00 TO STA.515+22.00)

PIPE CULVERT, CLASS C TYPE 1 12"
(STA. 513+00.00 TO 513+60.00)
(STA. 515+22.00 TO 516+00.00)

SOUTH:
SLOTTED DRAIN WITH VARIABLE SLOT
(STA. 528+85.00 TO STA.530+35.00)

PIPE CULVERT, CLASS C TYPE 1 12"
(STA. 528+00.00 TO 528+85.00)
(STA. 530+35.00 TO 531+00.00)



STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUGGESTED STAGES OF CONSTRUCTION AND TRAFFIC CONTROL
(SB LANES CLOSED)

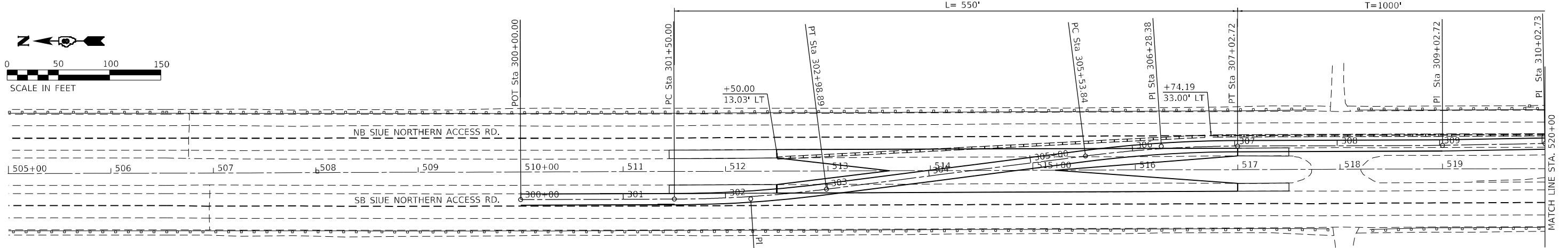
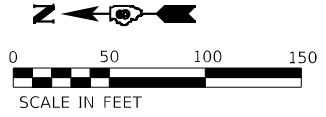
SCALE: SHEET 2 OF 8 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8885	BI	MADISON	76	26
CONTRACT NO. 76F88				
ILLINOIS FED. AID PROJECT				

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BA
BENTON & ASSOCIATES, INC.
CONSULTING ENGINEERS - LAND SURVEYORS
1910 WEST LAFALETTE AVE.
JACKSONVILLE, IL 62555
PHONE: 217-245-4140 FAX: 217-245-4149
IL DESIGN FIRM REGISTRATION NO. 184-000832

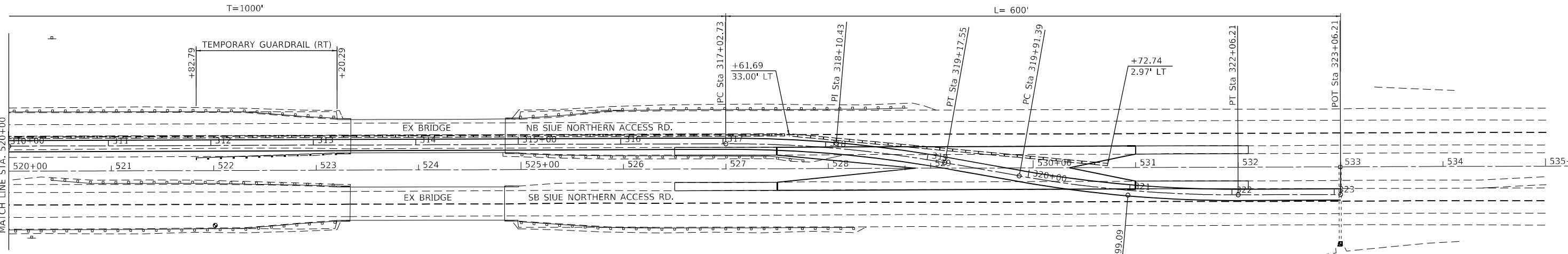
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PLOT SCALE = 100,0000' / in.	DRAWN - DSR	REVISED -
PLOT DATE = 6/28/2023	CHECKED - WJS	REVISED -
	DATE - 06/27/2023	REVISED -



PROP. CURVE STAGE_1_CL_3
 PI STA. = 302+24.54
 $\Delta = 7^\circ 06' 32''$ (LT)
 $D = 4^\circ 46' 29''$
 $R = 1,200.00'$
 $T = 74.54'$
 $L = 148.89'$
 $E = 2.31'$
 $e = ______$
 $T.R. = ______$
 $S.E. RUN = ______$
 $P.C. STA = 301+50.00$
 $P.T. STA = 302+98.89$

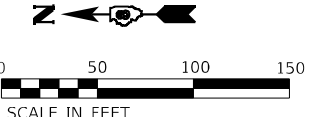
PROP. CURVE STAGE_1_CL_6
 PI STA. = 306+28.38
 $\Delta = 7^\circ 06' 32''$ (RT)
 $D = 4^\circ 46' 29''$
 $R = 1,200.00'$
 $T = 74.54'$
 $L = 148.89'$
 $E = 2.31'$
 $e = ______$
 $T.R. = ______$
 $S.E. RUN = ______$
 $P.C. STA = 305+53.84$
 $P.T. STA = 307+02.72$

STAGE 1			
STAGE 1 CENTERLINE STA.	SIUE CENTERLINE STA.	OFFSET	
300+00.00	510+00.00	27.00 RT	785150.498 345931.587
301+50.00	511+50.00	27.00 RT	785000.499 345932.082
302+24.54	512+24.54	27.00 RT	784925.961 345932.329
302+98.89	512+98.45	17.78 RT	784852.026 345941.797
305+53.84	515+51.50	13.78 LT	784599.141 345974.184
306+28.38	516+25.46	23.00 LT	784525.206 345983.653
307+02.72	517+00.00	23.00 LT	784450.667 345983.899
309+02.72	519+00.00	23.00 LT	784250.669 345984.560
310+02.73	520+00.00	24.50 LT	784150.674 345986.390
317+02.73	527+00.00	24.50 LT	783450.677 345988.702
318+10.43	528+07.70	24.50 LT	783342.983 345989.059
319+17.55	529+13.67	5.32 LT	783236.945 345970.233
319+91.39	529+86.33	7.82 LT	783164.243 345957.325
320+99.90	530+92.30	27.00 RT	783058.206 345938.499
322+06.21	532+00.00	27.00 RT	782950.510 345938.855
323+06.21	533+00.00	27.00 RT	782850.511 345939.185



PROP. CURVE STAGE_1_CL_13
 PI STA. = 318+10.43
 $\Delta = 10^\circ 15' 24''$ (RT)
 $D = 4^\circ 46' 29''$
 $R = 1,200.00'$
 $T = 107.70'$
 $L = 214.82'$
 $E = 4.82'$
 $e = ______$
 $T.R. = ______$
 $S.E. RUN = ______$
 $P.C. STA = 317+02.73$
 $P.T. STA = 319+17.55$

PROP. CURVE STAGE_1_CL_16
 PI STA. = 320+99.09
 $\Delta = 10^\circ 15' 24''$ (LT)
 $D = 4^\circ 46' 29''$
 $R = 1,200.00'$
 $T = 107.70'$
 $L = 214.82'$
 $E = 4.82'$
 $e = ______$
 $T.R. = ______$
 $S.E. RUN = ______$
 $P.C. STA = 319+91.39$
 $P.T. STA = 322+06.21$



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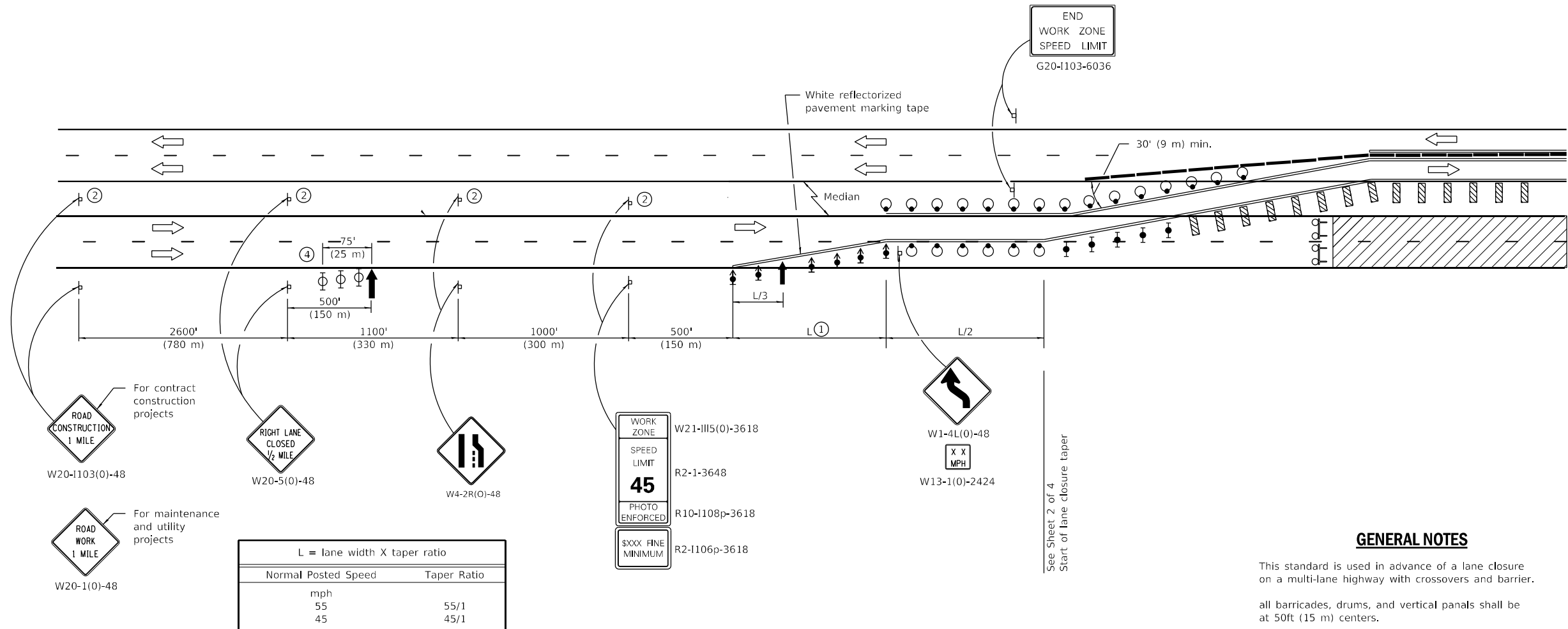


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PLOT SCALE = 100,0000' / in.	DRAWN - DSR	REVISED -
PLOT DATE = 6/28/2023	CHECKED - WJS	REVISED -
	DATE - 06/27/2023	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

SUGGESTED STAGES OF CONSTRUCTION AND TRAFFIC CONTROL (STAGE 1- SOUTHBOUND LANES CLOSED)			
SCALE:	SHEET 3	OF 8 SHEETS	STA. 505+00.00 TO STA. 535+00.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8885	BI	MADISON	76	27
CONTRACT NO. 76F88				
ILLINOIS FED. AID PROJECT				



L = lane width X taper ratio	
Normal Posted Speed	Taper Ratio
mph	
55	55/1
45	45/1

SYMBOLS

- Arrow board
- Work area
- Sign
- Direction indicator barricade with steady burn monodirectional light
- Type II barricade, drum, or vertical barricade
- Flagger with traffic control sign
- Worker
- Type II barricade, drum, or vertical barricade with monodirectional flashing light

- ① The merging taper shall be L/2 for Stage 2 (NB Str. Closure)
- ② Undivided roadway only with left lane closure in opposite direction.
- ③ Omitted when median is less than 10' (3 m).
- ④ Three Type II barricades, drums, or vertical barricades at 25' (8 m) centers.

GENERAL NOTES

This standard is used in advance of a lane closure on a multi-lane highway with crossovers and barrier.

all barricades, drums, and vertical panels shall be at 50ft (15 m) centers.

A check barricade shall be placed in the middle of the closed lane and at the shoulder at 1000' (300 m) centers.

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

See staging plan for additional signs required at the intersection of SIUE Northern Access Road and New Poag Road.

SHEET 1 OF 4
TRAFFIC CONTROL & PROTECTION (SPECIAL) DETAILS

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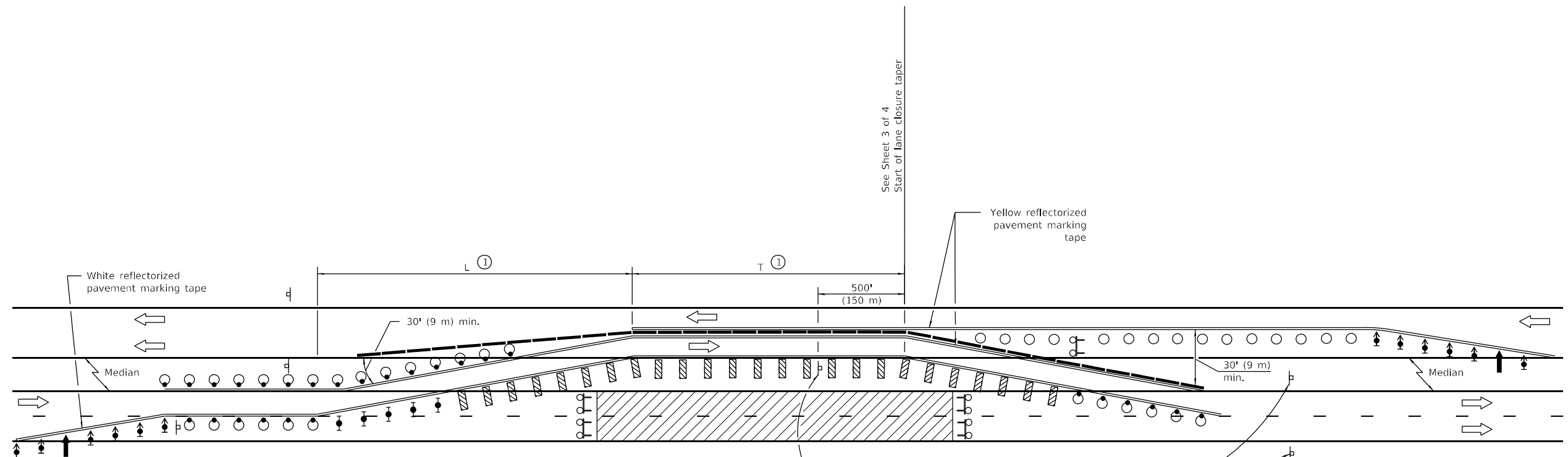
BENTON & ASSOCIATES, INC.
CONSULTING ENGINEERS - LAND SURVEYORS
1910 WEST LAFAYETTE AVE.
JACKSONVILLE, IL 62555
PHONE: 217-245-4140 FAX: 217-245-4149
IL DESIGN FIRM REGISTRATION NO. 184-000832

USER NAME = drunroll	DESIGNED - DSR	REVISED -
PLOT SCALE = 100,0000' / in.	DRAWN - DSR	REVISED -
PLOT DATE = 6/28/2023	CHECKED - WJS	REVISED -
	DATE - 06/27/2023	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUGGESTED STAGES OF CONSTRUCTION AND TRAFFIC CONTROL			
SCALE:	SHEET 5 OF 8 SHEETS	STA.	TO STA.

F.A.U. RTE. 8885	SECTION BI	COUNTY MADISON	TOTAL SHEETS 76	SHEET NO. 29
			CONTRACT NO. 76F88	
ILLINOIS FED. AID PROJECT				



L = lane width X taper ratio	
Normal Posted Speed	Taper Ratio
mph	
55	55/1
45	45/1



W1-4R(0)-48
When T ≥
1000' (300 m)



G20-1103-6036

SYMBOLS

- Arrow board
- Work area
- Sign
- Direction indicator barricade with steady burn monodirectional light
- Type II barricade with steady burn monodirectional light
- Drum with steady burn monodirectional light
- Vertical Panel
- Type III barricade with flashing lights
- Temporary concrete barrier
- Drum

① "L" and "T" shall be as shown on the plan details.

GENERAL NOTES

This Standard is used where at any time, any vehicle, equipment, workers or their activities require the closure of two adjacent lanes and a temporary crossover is provided by making use of one lane of pavement normally used by opposing flow of traffic and concrete barrier is used to separate the opposing traffic.

All barricades, drums, and vertical panels shall be at 50 ft. (15 m) centers.

Temporary concrete barrier shall be according to Standard 704001.

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

SHEET 2 OF 4 TRAFFIC CONTROL & PROTECTION (SPECIAL) DETAILS

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUGGESTED STAGES OF CONSTRUCTION AND TRAFFIC CONTROL

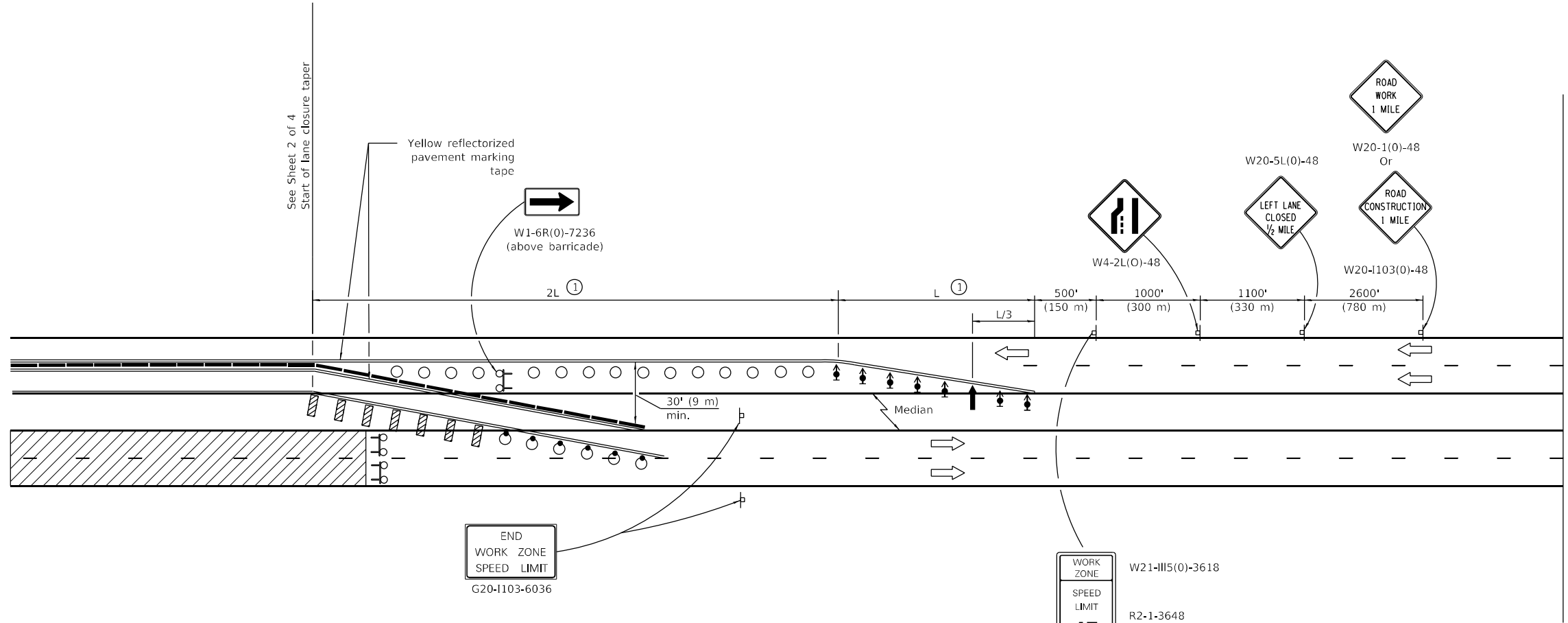
SCALE: SHEET 6 OF 8 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8885	BI	MADISON	76	30
CONTRACT NO. 76F88				
ILLINOIS FED. AID PROJECT				

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BENTON & ASSOCIATES, INC.
CONSULTING ENGINEERS - LAND SURVEYORS
1910 WEST LAFALETTE AVE.
JACKSONVILLE, IL 62550
PHONE: 217-245-4140 FAX: 217-245-4149
IL DESIGN FIRM REGISTRATION NO. 184-000832

USER NAME = drunroll	DESIGNED - DSR	REVISED -
	DRAWN - DSR	REVISED -
PLOT SCALE = 100,0000' / in.	CHECKED - WJS	REVISED -
PLOT DATE = 6/28/2023	DATE - 06/27/2023	REVISED -



END
WORK ZONE
SPEED LIMIT
G20-1103-6036

WORK ZONE
SPEED LIMIT
45
PHOTO ENFORCED
R2-1106p-3618

SYMBOLS

- ↑ Arrow board
- ▨ Work area
- ⊥ Sign
- ↑ Direction indicator barricade with steady burn monodirectional light
- ↓ Type II barricade with steady burn monodirectional light
- Drum with steady burn monodirectional light
- ▨ Vertical Panel
- ⊥ Type III barricade with flashing lights
- Temporary concrete barrier
- Drum

① During Stage 2 "L" shall be reduced so that "3L" is less than the distance to the right turn lane at the intersection of SIUE Northern Access Road and New Poag Road (±1250')

GENERAL NOTES

This standard is used in advance of a lane closure on a multi-lane highway with crossovers and barrier.

all barricades, drums, and vertical panels shall be at 50ft (15 m) centers.

A check barricade shall be placed in the middle of the closed lane and at the shoulder at 1000' (300 m) centers.

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

See staging plan for additional signs required at the intersection of SIUE Northern Access Road and New Poag Road.

**SHEET 3 OF 4
TRAFFIC CONTROL & PROTECTION (SPECIAL) DETAILS**

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BENTON & ASSOCIATES, INC.
CONSULTING ENGINEERS - LAND SURVEYORS
1910 WEST LAFAYETTE AVE.
JACKSONVILLE, IL 62555
PHONE: 217-245-4140 FAX: 217-245-4149
IL DESIGN FIRM REGISTRATION NO. 184-000832

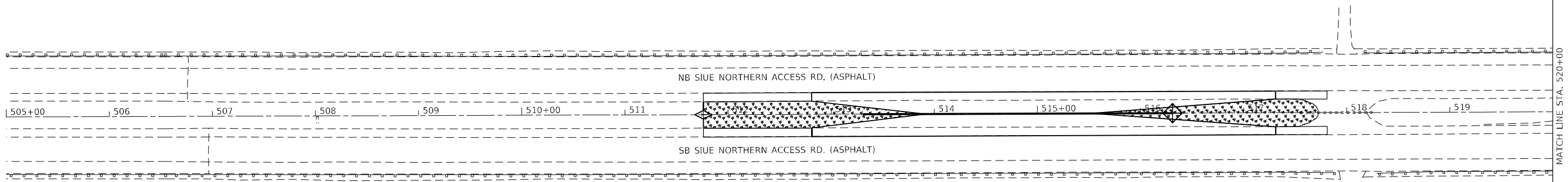
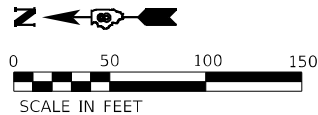
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PLOT DATE = 6/28/2023	DATE - 06/27/2023	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUGGESTED STAGES OF CONSTRUCTION AND TRAFFIC CONTROL

SCALE:	SHEET 7 OF 8 SHEETS	STA.	TO STA.
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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8885	BI	MADISON	76	31
CONTRACT NO. 76F88				
ILLINOIS FED. AID PROJECT				

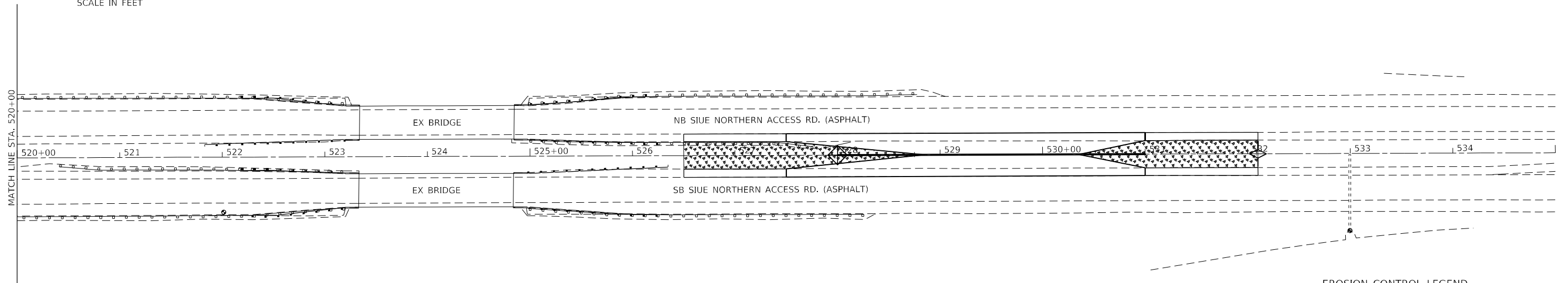
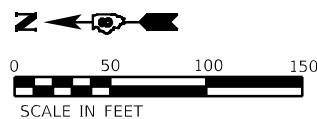


EROSION AND SEDIMENT CONTROL NOTES

- ALL EROSION CONTROL PRODUCTS FURNISHED SHALL BE SPECIFICALLY RECOMMENDED BY THE MANUFACTURER FOR THE USE SPECIFIED IN THE EROSION CONTROL PLAN. PRIOR TO APPROVAL AND USE OF THE PRODUCT, THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER A NOTARIZED CERTIFICATION BY THE PRODUCER STATING THE INTENDED USE OF THE PRODUCT AND THAT THE PHYSICAL PROPERTIES REQUIRED FOR THIS APPLICATION ARE MET OR EXCEEDED. THE CONTRACTOR SHALL PROVIDE MANUFACTURER RECOMMENDED INSTALLATION PROCEDURE TO FACILITATE THE ENGINEER IN CONSTRUCTION INSPECTION.
- STRAW BALES, HAY BALES PERIMETER EROSION BARRIER, AND SILT FENCES WILL NOT BE PERMITTED FOR TEMPORARY OR PERMANENT DITCH CHECKS. DITCH CHECKS SHALL BE COMPOSED OF AGGREGATE, SILT PANELS, ROLLED EXCELSIOR, URETHANE FOAM/GEOTEXTILE (SILT WEDGES), EARTH MEDIAN AND/OR OTHER MATERIAL APPROVED BY THE EROSION AND SEDIMENT CONTROL COORDINATOR.
- TEMPORARY DITCH CHECK, GEOTEXTILES, ROLLED EXCELSIOR, SILT WEDGES, AND PANELS SHALL BE LOCATED AT EVERY 1.5FT FALL/RISE IN DITCH GRADE.
- TEMPORARY DITCH CHECKS, AGGREGATE USES GRADING NO. 3 SHALL BE REMOVED AT END OF CONSTRUCTION.
- TEMPORARY SEEDING SHALL BE COMPLETED ON A WEEKLY BASIS ON EXPOSED GROUND AND SHALL BE PAID FOR AS "TEMPORARY EROSION SEEDING" AND NO OTHER PAYMENT WILL BE PERMITTED. FOR CALCULATION PURPOSES, TWELVE APPLICATIONS OF TEMPORARY SEEDING WERE ASSUMED.
- ALL AREAS DISTURBED FOR ANY REASON SHALL BE PERMANENTLY SEEDED AS DIRECTED BY THE ENGINEER. ALL AREAS DISTURBED BY THE CONTRACTOR OUTSIDE THE PROPOSED CONSTRUCTION LIMITS SHALL BE SEEDED AT THE CONTRACTORS EXPENSE.
- EARTH STOCKPILES SHALL BE TEMPORARILY SEEDED IF THEY ARE TO REMAIN UNUSED FOR MORE THAN FOURTEEN DAYS.
- FINAL SEEDING SHALL BE PERFORMED AS SOON AS POSSIBLE.

EROSION CONTROL LEGEND

- INLET AND PIPE PROTECTION
- TEMPORARY EROSION CONTROL SEEDING
- TEMPORARY DITCH CHECK



EROSION CONTROL LEGEND

- INLET AND PIPE PROTECTION
- TEMPORARY EROSION CONTROL SEEDING
- TEMPORARY DITCH CHECK

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BA BENTON & ASSOCIATES, INC.
CONSULTING ENGINEERS - LAND SURVEYORS
1910 WEST LAFALETTE AVE.
JACKSONVILLE, IL 62650
PHONE: 217-245-4140 FAX: 217-245-4149
IL DESIGN FIRM REGISTRATION NO. 184-000932

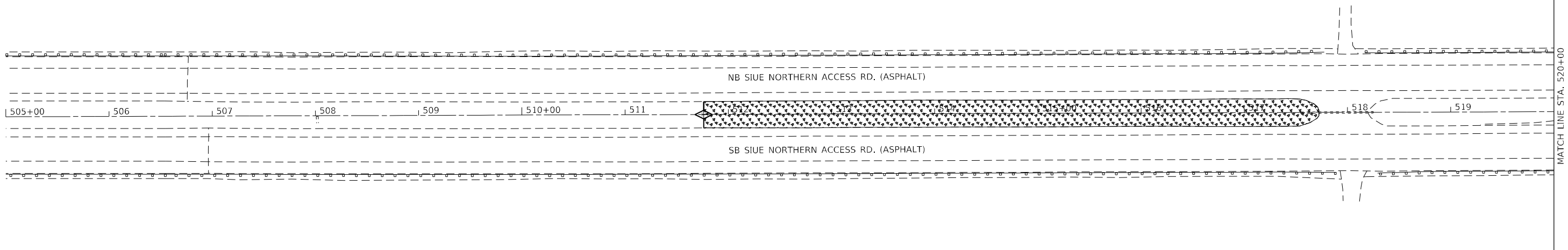
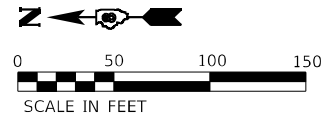
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	DATE - 06/27/2023	REVISED -




**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**EROSION AND SEDIMENT CONTROL DETAILS
PRESTAGE**

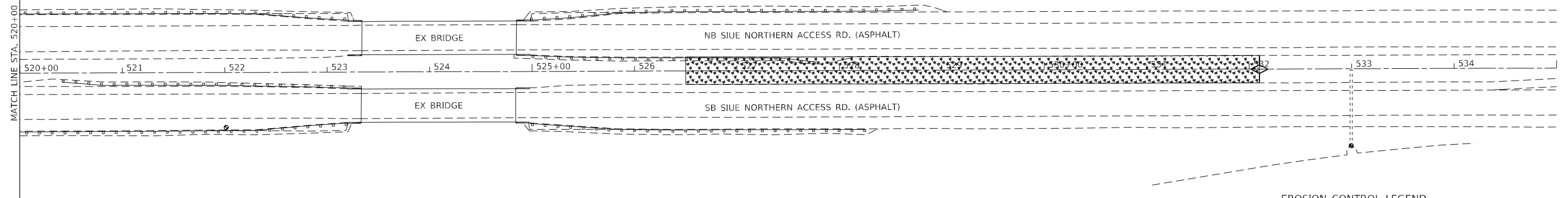
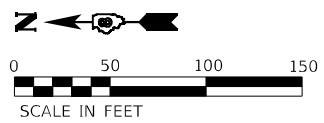
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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8885	BI	MADISON	76	33
CONTRACT NO. 76F88				
ILLINOIS FED. AID PROJECT				



- EROSION CONTROL LEGEND**
-  INLET AND PIPE PROTECTION
 -  SEEDING CLASS 2 & MULCH, METHOD 2
 -  TEMPORARY DITCH CHECK

MATCH LINE STA. 520+00



- EROSION CONTROL LEGEND**
-  INLET AND PIPE PROTECTION
 -  SEEDING CLASS 2 & MULCH, METHOD 2
 -  TEMPORARY DITCH CHECK

MATCH LINE STA. 520+00

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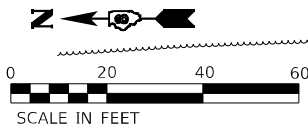


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	DATE - 06/27/2023	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

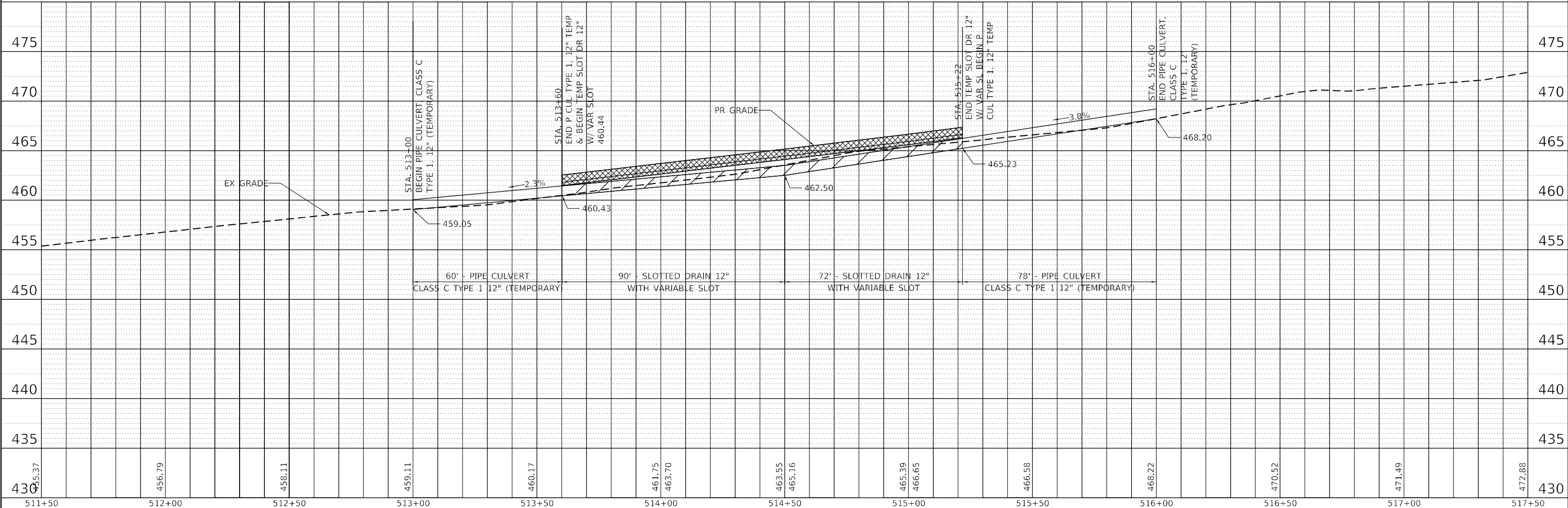
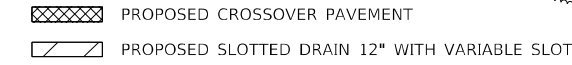
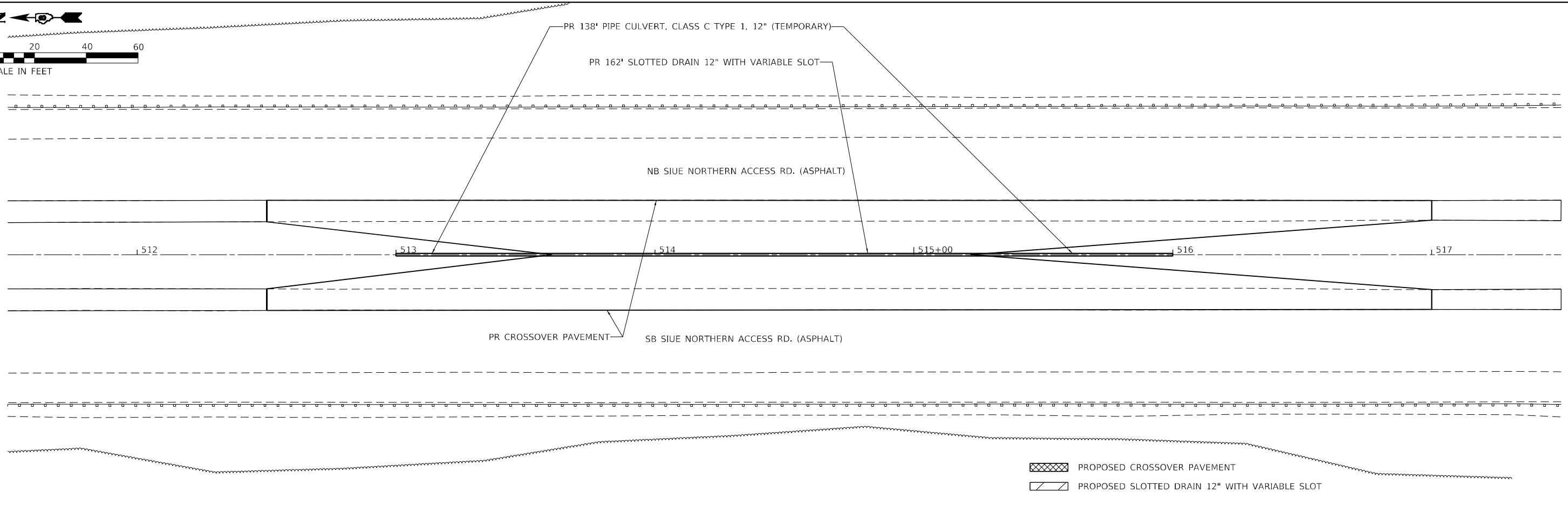
EROSION AND SEDIMENT CONTROL DETAILS			
STAGE 3			
SCALE:	SHEET 2	OF 2	SHEETS
	STA. 505+00.00	TO STA. 535+00.00	

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8885	BI	MADISON	76	34
ILLINOIS FED. AID PROJECT			CONTRACT NO. 76F88	



PLAN	SURVEYED	DATE
	PLOTTED	
NOTE BOOK NO.	ALIGNMENT CHECKED	
	CADD FILE NAME	

PROFILE	SURVEYED	DATE
	PLOTTED	
NOTE BOOK NO.	GRADES CHECKED	
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BENTON & ASSOCIATES, INC.
 CONSULTING ENGINEERS / LAND SURVEYORS
 1970 WEST LAFAYETTE AVE.
 JACKSONVILLE, IL 62650
 PHONE: 217-243-8180 FAX: 217-243-8189
 IL DESIGN FIRM REGISTRATION NO. 184-000852

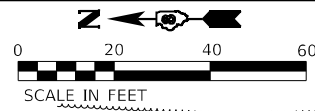
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

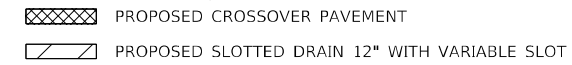
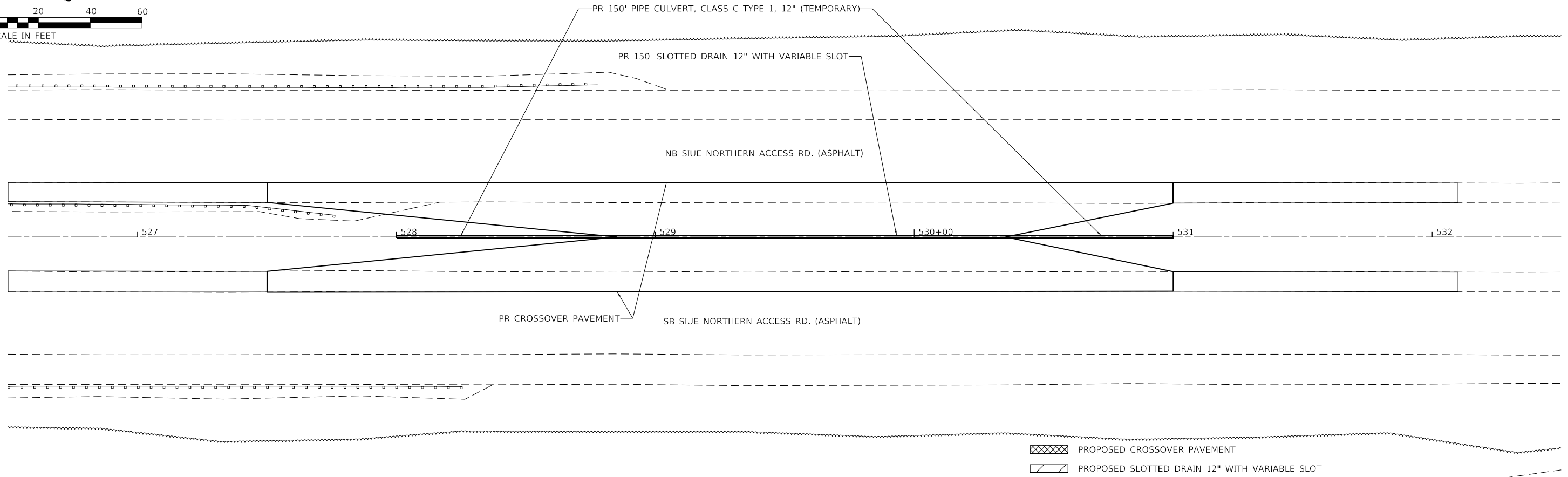
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(NORTH CROSS OVER)

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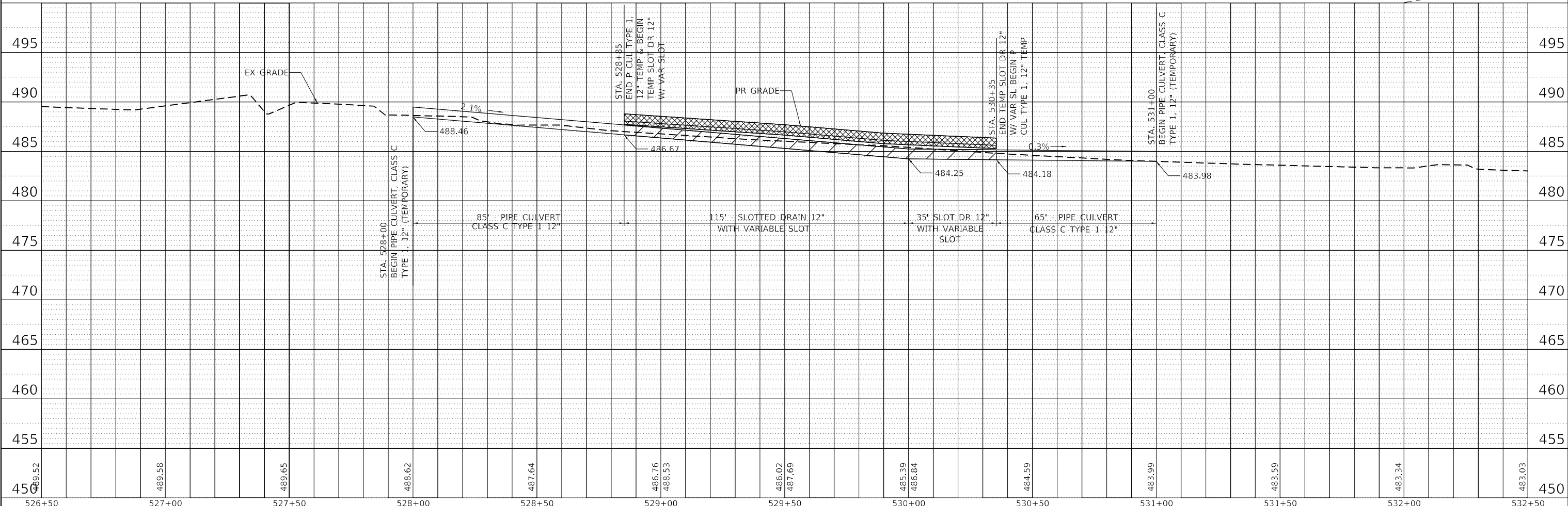
F.A.U. RTE. 8885	SECTION BI	COUNTY MADISON	TOTAL SHEETS 76	SHEET NO. 35
CONTRACT NO. 76F88				
ILLINOIS FED. AID PROJECT				



PLAN	SURVEYED	DATE
	PLOTTED	BY
PROFILE	GRADES CHECKED	DATE
	STRUCTURE NOTARIS R/W	BY
NOTE BOOK	NO.	
	NO.	



PROFILE	SURVEYED	DATE
	PLOTTED	BY
NOTE BOOK	GRADES CHECKED	DATE
	STRUCTURE NOTARIS R/W	BY
NOTE BOOK	NO.	
	NO.	



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BENTON & ASSOCIATES, INC.
CONSULTING ENGINEERS / LAND SURVEYORS
1970 WEST LAFALETTE AVE.
JACKSONVILLE, IL 61830
PHONE: 217-243-8130 FAX: 217-243-8139
IL DESIGN FIRM REGISTRATION NO. 184-000852

USER NAME = drunoll	DESIGNED - DSR	REVISED -
	DRAWN - DSR	REVISED -
PLOT SCALE = 40,0000 * / in.	CHECKED - WJS	REVISED -
PLOT DATE = 6/28/2023	DATE - 06/27/2023	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DRAINAGE PLAN AND PROFILE SHEETS
(SOUTH CROSS OVER)

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

F.A.U. RTE. 8885	SECTION BI	COUNTY MADISON	TOTAL SHEETS 76	SHEET NO. 36
CONTRACT NO. 76F88				
ILLINOIS FED. AID PROJECT				

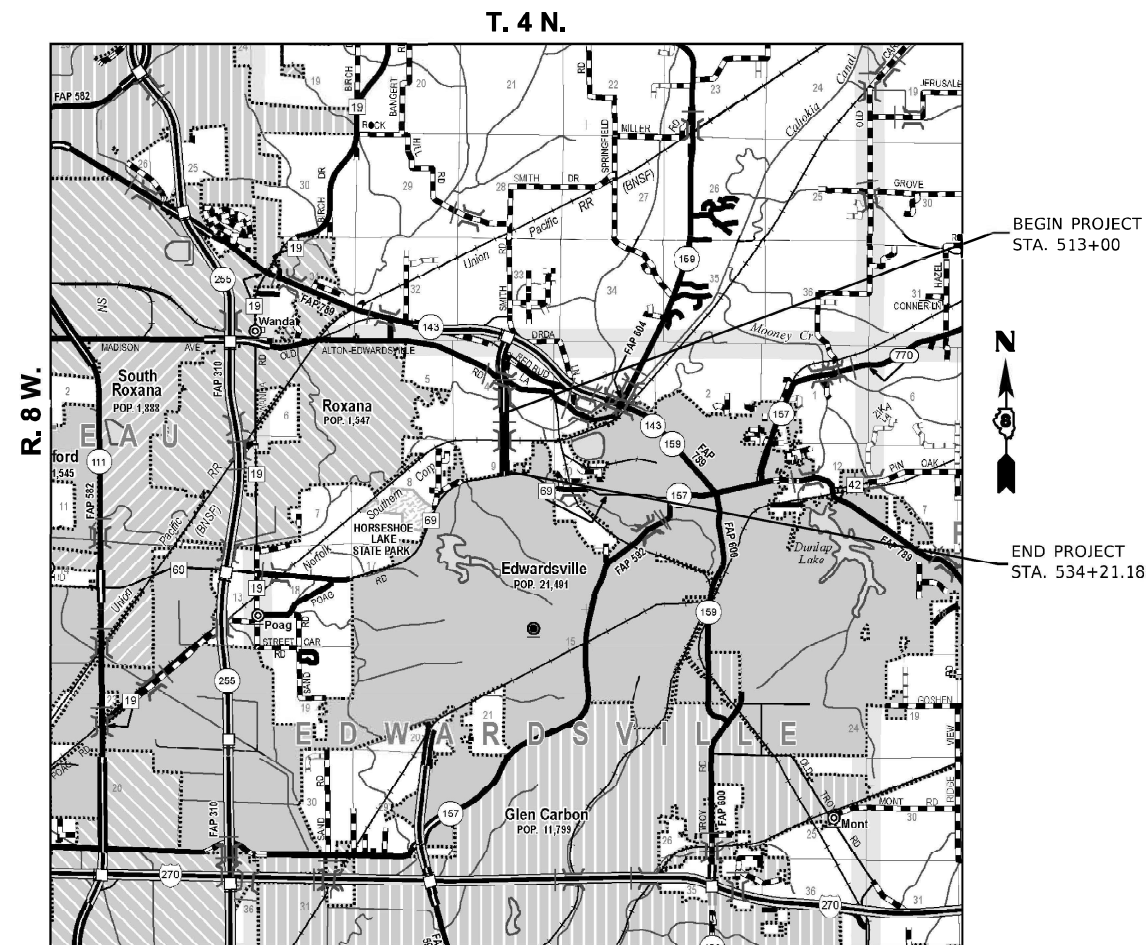
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
OFFICE OF HIGHWAYS PROJECT IMPLEMENTATION**

SPACE RESERVED FOR RECORDING OFFICER

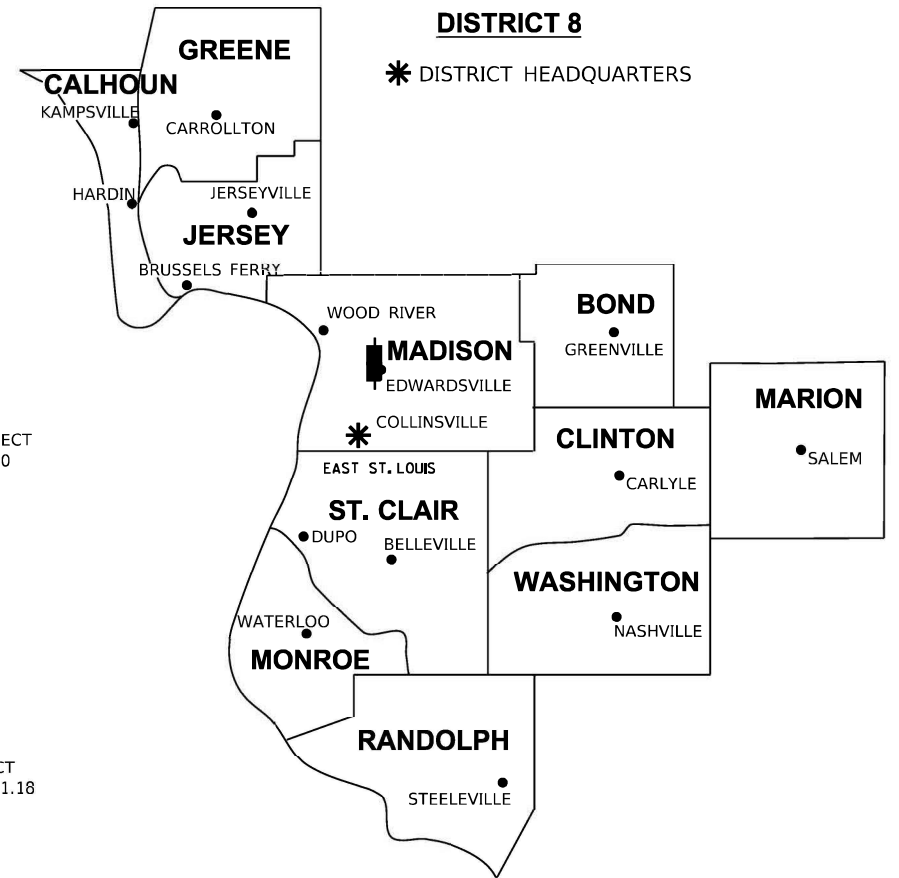
SHEET INDEX		
SHEET NO.	STATION TO STATION	DESCRIPTION
1	N/A	COVER
2	N/A	LEGEND AND NOTES
3	513+00 TO 519+00	PLAT OF HIGHWAY
4	519+00 TO 526+00	PLAT OF HIGHWAY
5	526+00 TO 534+21.18	PLAT OF HIGHWAY

PLAT OF HIGHWAY

**FAU ROUTE 8885 (N. SIU-E ENTRANCE)
SECTION BI
MADISON COUNTY
JOB NO. R-98-023-21**



PROJECT LENGTH = 2,121.18 LIN. FT. = 0.402 MILE



LOCATION OF SECTION INDICATED THUS:

PREPARED BY:



GREGORY S. McVICAR, PLS NO. 3512
LICENSE EXPIRATION DATE: 11/30/2024

SHEET 1 OF 5

ILLINOIS DEPARTMENT OF TRANSPORTATION OFFICE OF HIGHWAYS PROJECT IMPLEMENTATION/REGION 5/DISTRICT 8 1102 EASTPORT PLAZA DRIVE COLLINSVILLE, ILLINOIS 62234-6198				
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8885	BI	MADISON		
CONTRACT NO. 76F88				
FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		

LEGEND FOR EXISTING TOPOGRAPHIC SYMBOLS

TRAFFIC SIGNAL GULFBOX	○	DRAINAGE FLOW LINE	→
TRAFFIC SIGNAL HANDHOLE	□	RIP RAP	▨
TRAFFIC SIGNAL SIGNAL POST	○	HEADWALL	▧
TRAFFIC SIGNAL STEEL MAST ARM	—	CULVERT END SECTION	—
TRAFFIC SIGNAL PEDESTRIAN PUSH BUTTON	●	DRAINAGE MANHOLE	○
TRAFFIC SIGNAL WOODEN POLE	○	INLET	○
TRAFFIC SIGNAL VEHICLE DETECTION PRIORITY	△	ROADWAY DITCH FLOW	→
TRAFFIC SIGNAL VEHICLE DETECTION MAGNET	—	VEGETATION LINE	—
TRAFFIC SIGNAL JUNCTION BOX	□	STUMP	⊠
TRAFFIC SIGNAL CONTROLLER	⊠	SHRUB	○
TRAFFIC SIGNAL HEAVY DUTY HANDHOLE	⊠	EVERGREEN TREE	⊠
RAILROAD CANTILEVER MAST ARM	—	DECIDUOUS TREE	○
RAILROAD CROSSBUCK	⊠	WOODS/BUSH LINE	—
RAILROAD TRACK	—	TRAFFIC SIGN	⊠
RAILROAD TRACK (ABANDONED)	—	GUARDRAIL POST	⊠
RAILROAD CROSSGATE	—	GUARDRAIL	—
RAILROAD CONTROL BOX	⊠	FIELD LINE	—
RAILROAD FLASHING SIGNAL	⊠	LEVEE/NOISE BARRIER	—
UTILITY TELEPHONE SPLICE BOX	⊠	FENCE	—
UTILITY POWER POLE	⊠	MAIL BOX	⊠
UTILITY TRAFFIC SIGNAL	⊠	ADVERTISING SIGN	⊠
UTILITY LIGHT POLE	⊠	MARSH	—
UTILITY FIRE HYDRANT	⊠	LIGHTING HANDHOLE	⊠
UTILITY MANHOLE	○	LIGHTING POWER POLE	⊠
UTILITY TELEPHONE POLE	⊠	LIGHTING JUNCTION BOX	⊠
UTILITY GUY ANCHOR	⊠	LIGHTING HEAVYDUTY HANDHOLE	⊠
UTILITY PIPELINE WARNING SIGN	⊠	LIGHTING PIPELINE CONTROLLER	⊠
UTILITY HANDHOLE	⊠	LIGHTING PULL POINT	⊠
UTILITY SPLICE BOX	⊠	HIGHWAY LIGHTING ELECTRICAL GROUND	⊠
UTILITY JUNCTION BOX	⊠	HIGHWAY LIGHTING SINGLE UNIT	⊠
UTILITY HEAVY DUTY HANDHOLE	⊠	HIGHWAY LIGHTING DOUBLE UNIT	⊠
UTILITY DOUBLE HANDHOLE	⊠	EXISTING CONCRETE BARRIER	—
UTILITY CONTROLLER	⊠	EXISTING CREEK OR DITCH	—
UTILITY WATER METER	○	EXISTING EDGE OF PAVEMENT	—

RIGHT-OF-WAY LEGEND

	SECTION CORNERS		QUARTER SECTION CORNERS
---	EXISTING CENTERLINE	---	EXISTING CENTERLINE
---	EXISTING RIGHT-OF-WAY LINE	---	EXISTING RIGHT-OF-WAY LINE
---	FORMER RIGHT-OF-WAY LINE	---	FORMER RIGHT-OF-WAY LINE
---	EXISTING IDOT EASEMENT LINE	---	EXISTING IDOT EASEMENT LINE
---	EXISTING EASEMENT LINE	---	EXISTING EASEMENT LINE
---	BUILDING SETBACK LINE	---	BUILDING SETBACK LINE
---	EXISTING ACCESS CONTROL LINE	---	EXISTING ACCESS CONTROL LINE
---	EXISTING RIGHT-OF-WAY & PROPOSED ACCESS CONTROL LINE	---	EXISTING RIGHT-OF-WAY & PROPOSED ACCESS CONTROL LINE
---	PROPOSED ACCESS CONTROL LINE	---	PROPOSED ACCESS CONTROL LINE
---	PROPOSED CENTERLINE	---	PROPOSED CENTERLINE
---	PROPOSED RIGHT-OF-WAY LINE	---	PROPOSED RIGHT-OF-WAY LINE
---	PROPOSED TEMPORARY EASEMENT LINE	---	PROPOSED TEMPORARY EASEMENT LINE
---	PROPOSED PERMANENT EASEMENT LINE	---	PROPOSED PERMANENT EASEMENT LINE
---	SECTION LINE	---	SECTION LINE
---	QUARTER SECTION LINE	---	QUARTER SECTION LINE
---	QUARTER QUARTER SECTION LINE	---	QUARTER QUARTER SECTION LINE
---	PROPERTY LINE (TITLE)	---	PROPERTY LINE (TITLE)
---	RECORDED PLAT/DEED LINE	---	RECORDED PLAT/DEED LINE
---	APPARENT PROPERTY LINE	---	APPARENT PROPERTY LINE
---	SAME OWNERSHIP	---	SAME OWNERSHIP
121.45'	MEASURED DIMENSION	121.45'	MEASURED DIMENSION
(121.45')	RECORDED DIMENSION	(121.45')	RECORDED DIMENSION
□	FOUND STONE	□	FOUND STONE
○	FOUND IRON PIPE OR IRON ROD AT CORNER UNLESS OTHERWISE NOTED	○	FOUND IRON PIPE OR IRON ROD AT CORNER UNLESS OTHERWISE NOTED
N & W	SET 5/8 INCH IRON ROD WITH PLASTIC CAP IDENTIFIED BY SURVEYORS LICENSE NUMBER AT CORNER UNLESS OTHERWISE NOTED	N & W	SET 5/8 INCH IRON ROD WITH PLASTIC CAP IDENTIFIED BY SURVEYORS LICENSE NUMBER AT CORNER UNLESS OTHERWISE NOTED
●	PERMANENT SURVEY MONUMENT, I.D.O.T. STD. 667101 (TO BE SET BY OTHERS)	●	PERMANENT SURVEY MONUMENT, I.D.O.T. STD. 667101 (TO BE SET BY OTHERS)
△	FOUND REBAR WITH ALUMINUM CAP AS SURVEY CONTROL UNLESS OTHERWISE NOTED	△	FOUND REBAR WITH ALUMINUM CAP AS SURVEY CONTROL UNLESS OTHERWISE NOTED
+	FOUND CUT CROSS	+	FOUND CUT CROSS
+	SET CUT CROSS	+	SET CUT CROSS

- STAKING OF PROPOSED RIGHT-OF-WAY AND PERMANENT EASEMENT CORNERS. SET 5/8 INCH METAL ROD WITH DIVISION OF HIGHWAY SURVEY ALUMINUM CAP TO MONUMENT THE POSITION SHOWN. IDENTIFIED BY INSCRIPTION DATA AND SURVEYORS LICENSE NUMBER.
- STAKING OF PROPOSED RIGHT-OF-WAY AND PERMANENT EASEMENT CORNERS IN CULTIVATED AREA, A MINIMUM OF 20 INCHES BELOW THE GROUND SURFACE. SET 5/8 INCH METAL ROD WITH DIVISION OF HIGHWAY SURVEY ALUMINUM CAP TO MONUMENT THE POSITION SHOWN. IDENTIFIED BY INSCRIPTION DATA AND SURVEYORS LICENSE NUMBER.

LEGEND FOR ABBREVIATIONS

A/C	ACCESS CONTROL
AC	ACRE
AVE	AVENUE
BK	BOOK
BLVD	BOULEVARD
CL	CENTERLINE
CAB	CABINET
CH	COUNTY HIGHWAY
Ch	CHAIN
CP	CONTROL POINT
CPS	COTTON PICKER SPINDLE
DB	DEAD BOOK
E	EAST
EX	EXISTING
FA	FEDERAL AID
FAI	FEDERAL AID INTERSTATE
FAP	FEDERAL AID PRIMARY
FAS	FEDERAL AID SECONDARY
FAU	FEDERAL AID URBAN
FND	FOUND
ha	HECTARE
IP	IRON PIPE
IR	IRON ROD
LT	LEFT
m ²	METER
m	SQUARE METERS
N	NORTH
N/F	NOW OR FORMERLY
N & BC	NAIL AND BOTTLE CAP
N & C	NAIL AND CAP
N & W	NAIL AND WASHER
NE	NORTHEAST
NW	NORTHWEST
PB	PLAT BOOK
PG	PAGE
POB	POINT OF BEGINNING
POC	POINT OF COMMENCEMENT
POT	POINT ON TANGENT
PL	PROPERTY LINE
PR	PROPOSED
R	RANGE
RD	ROAD
REC	RECORD
ROW	RIGHT-OF-WAY
RR	RAILROAD
RRS	RAILROAD SPIKE
RT	RIGHT
RTE	ROUTE
S	SOUTH
SBI	STATE BOND ISSUE
SE	SOUTHEAST
SEC	SECTION
SQ FT	SQUARE FEET
SR	STATE ROUTE
ST	STREET
STA	STATION
SMK	SURVEY MARKER
SW	SOUTHWEST
T	TOWNSHIP
TR	TOWNSHIP ROAD
USGS	U.S. GEOLOGICAL SURVEY
W	WEST

SPACE RESERVED FOR RECORDING OFFICER

PROPOSED PARCEL NUMBER LEGEND

8001001	PROPOSED FEE SIMPLE ACQUISITION
8001001PE	PROPOSED PERMANENT EASEMENT
8001001TE	PROPOSED TEMPORARY EASEMENT
8001001DED	PROPOSED DEDICATION
8001001AC	PROPOSED ACCESS CONTROL LINE

CURVE ABBREVIATIONS

PC	POINT OF CURVATURE
PI	POINT OF INTERSECTION
PT	POINT OF TANGENCY
PRC	POINT OF REVERSE CURVE
PCC	POINT OF COMPOUND CURVE
R	RADIUS OF CURVE
L	LENGTH OF CURVE
CB	CHORD BEARING
C	CHORD LENGTH
D	DEGREE OF CURVE
E	EXTERNAL ORDINATE
Δ	CENTRAL ANGLE

BASIS OF COORDINATE & BEARING STATEMENT

THE PROJECT COORDINATES AND BASIS OF BEARING WERE ESTABLISHED BY THE ILLINOIS DEPARTMENT OF TRANSPORTATION GPS SURVEY. THE SURVEY WAS PERFORMED DURING THE MONTH OF JUNE 2012.

BEARINGS ARE BASED ON THE ILLINOIS STATE PLANE COORDINATE SYSTEM, WEST ZONE, NAD83 (07). THE DISTANCES AS SHOWN HEREON, EXCEPT AS NOTED, ARE MODIFIED GROUND DISTANCES. THE AVERAGE COMBINATION FACTOR USED FOR THIS PLAT IS 0.9999260332. THE GRID COORDINATES WHEN DIVIDED BY THE AVERAGE COMBINATION FACTOR WILL PROVIDE THE MODIFIED GROUND COORDINATES.

PROJECT COORDINATES ARE MODIFIED GROUND COORDINATES AND BASED ON THE ILLINOIS STATE PLANE COORDINATE SYSTEM, WEST ZONE, NAD 83 (07). FOR THE FINAL PROJECT COORDINATES, TWO MILLION HAS BEEN TRUNCATED FROM THE EASTING TO DISTINGUISH PROJECT COORDINATES AS MODIFIED GROUND COORDINATES.

PROJECT COORDINATES:
STATE PLANE COORDINATE ZONE: IL WEST ZONE NAD83 (07)
VERTICAL DATUM: NAVD 88
GEOID MODEL: GEOID 09
AVERAGE COMBINATION FACTOR=0.9999260332

**PROJECT SURVEY CONTROL DATA
GROUND SURFACE COORDINATE SYSTEM**

POINT NO.	NORTH (FEET)	EAST (FEET)	DESCRIPTION
4	784,607.9499	345,968.7178	5/8"Ø X 30" REBAR W/ IDOT CAP
5	783,834.9478	345,964.0825	5/8"Ø X 30" REBAR W/ IDOT CAP
6	783,647.7069	345,954.2047	5/8"Ø X 30" REBAR W/ IDOT CAP
7	782,852.9351	345,956.6429	5/8"Ø X 30" REBAR W/ IDOT CAP

TOTAL HOLDING AREA SOURCE TABLE

1	AREA ACCORDING TO THE SURVEY PERFORMED BY THE CONSULTANT.
2	AREA LISTED IN RECORDED DEED.
3	AREA ACCORDING TO A RECORDED SUBDIVISION PLAT.
4	AREA ACCORDING TO A PLAT OF SURVEY.
5	AREA CALCULATED FROM RECORDED DEEDS OR TITLE COMMITMENTS - NOT SURVEYED.
6	AREA ACCORDING TO COUNTY TAX MAPS AND COUNTY ASSESSMENT RECORDS.
7	AREA ACCORDING TO OTHER RECORDS, SEE NOTE ON THE PLAT OF HIGHWAYS.

TOPOGRAPHIC STATEMENT

THE TOPOGRAPHY SHOWN HEREON WAS FIELD LOCATED BY THE CONSULTANT IN SEPTEMBER, 2021.



GREGORY S. McVICAR, PLS NO. 3512
LICENSE EXPIRATION DATE: 11/30/2024

SHERRILL ASSOCIATES, INC.
Engineers - Surveyors - Planners
Professional Design Firm Number 184-001238
316 North Main Street, Edwardsville, IL 62025
Tel. 618-656-9251, Fax 618-656-9496

ILLINOIS DEPARTMENT OF TRANSPORTATION
PLAT OF HIGHWAY
FAU ROUTE 8885 (N. SIU-E ENTRANCE)
SECTION BI
MADISON COUNTY
JOB NO. R-98-023-21
LEGEND AND NOTES

SHEET 2 OF 5

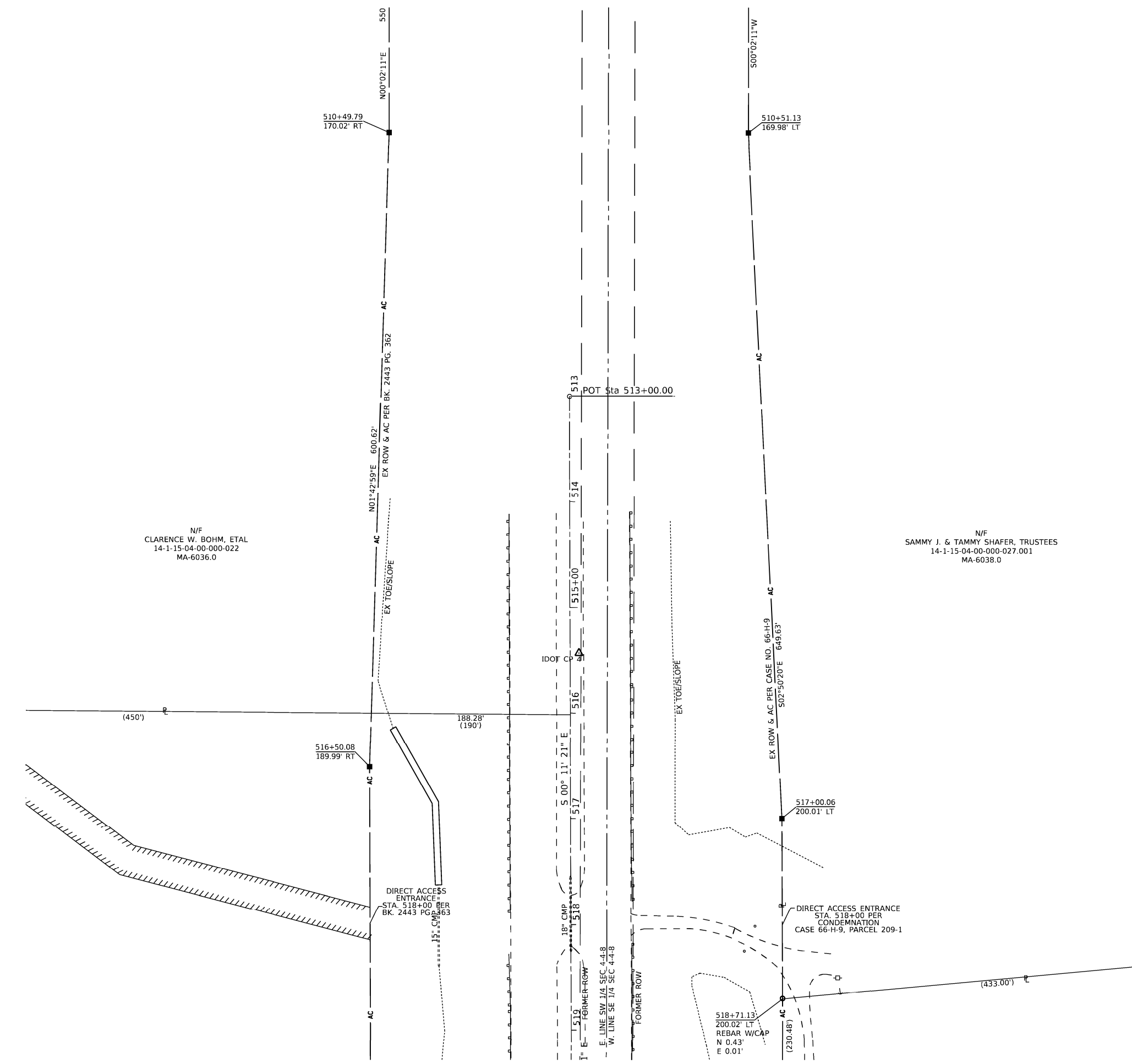
ILLINOIS DEPARTMENT OF TRANSPORTATION OFFICE OF HIGHWAYS PROJECT IMPLEMENTATION/REGION 5/DISTRICT 8 1102 EASTPORT PLAZA DRIVE COLLINSVILLE, ILLINOIS 62234-6198			
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS
8885	BI	MADISON	NO.
CONTRACT NO. 76F88			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT	

SEE LEGENDS, TOPOGRAPHIC STATEMENT, SURVEYORS NOTE(S) AND BASIS OF COORDINATES & BEARINGS STATEMENT ON SHEET 2

N

SPACE RESERVED FOR RECORDING OFFICER

COORDINATE TABLE			
STATION	OFFSET	NORTHING	EASTING
518+71.13	200.02' LT	784,280.1264	346,161.4798
510+49.79	170.02' RT	785,100.2349	345,788.7324
510+51.13	169.98' LT	785,100.0193	346,128.7323
516+50.08	189.99' RT	784,499.8838	345,770.7427
517+00.06	200.01' LT	784,451.1910	346,160.9081
513+00.00	POT	784,850.5892	345,959.5777



N/F
CLARENCE W. BOHM, ETAL
14-1-15-04-00-000-022
MA-6036.0

N/F
SAMMY J. & TAMMY SHAFER, TRUSTEES
14-1-15-04-00-000-027.001
MA-6038.0

STATE OF ILLINOIS)
) SS
COUNTY OF MADISON)

I, GREGORY S. McVICAR, AN ILLINOIS PROFESSIONAL LAND SURVEYOR, STATE THAT I HAVE SURVEYED THE EASEMENT PLAT SHOWN HEREON AND THAT THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY FOR THE PROPOSED PARCEL TO BE ACQUIRED BY THE STATE OF ILLINOIS, DEPARTMENT OF TRANSPORTATION, SHOWN HEREON.

DATED _____

GREGORY S. McVICAR, PLS NO. 3512
LICENSE EXPIRATION DATE: 11/30/2024



SHERRILL ASSOCIATES, INC.
Engineers - Surveyors - Planners
Professional Design Firm Number 184-001238
316 North Main Street Tel. 618-656-9251
Edwardsville, IL 62025 Fax 618-656-9496

ILLINOIS DEPARTMENT OF TRANSPORTATION
PLAT OF HIGHWAY
FAU ROUTE 8885 (N. SIU-E ENTRANCE)
SECTION BI
MADISON COUNTY
JOB NO. R-98-023-21
STA. 513+00 TO STA. 519+00



ILLINOIS DEPARTMENT OF TRANSPORTATION
OFFICE OF HIGHWAYS PROJECT IMPLEMENTATION/REGION 5/DISTRICT 8
1102 EASTPORT PLAZA DRIVE
COLLINGSVILLE, ILLINOIS 62234-6198

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8885	BI	MADISON		

COMPLETION DATE OF FIELD WORK PERFORMED _____
LAND SURVEY: 09/21/2021 ROW STAKING: 05/22/2023

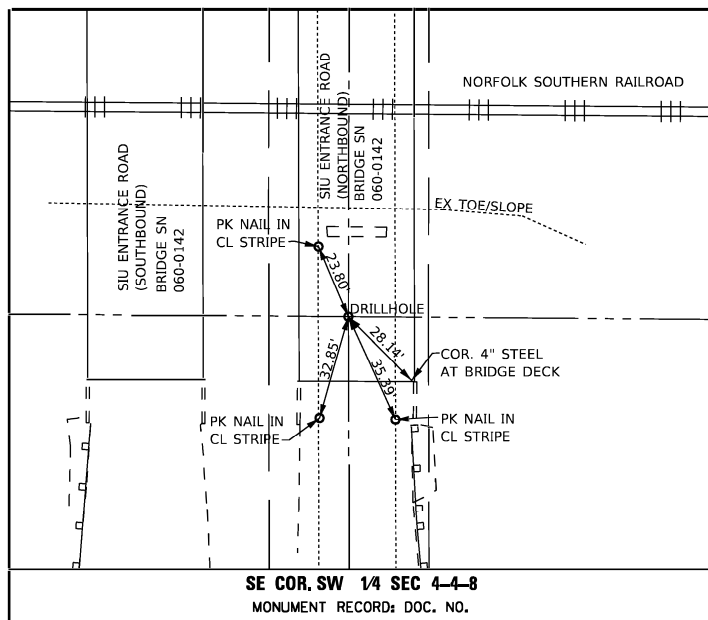
FED. ROAD DIST. NO. _____ ILLINOIS _____ FED. AID PROJECT _____

SEE LEGENDS, TOPOGRAPHIC STATEMENT, SURVEYORS NOTE(S) AND BASIS OF COORDINATES & BEARINGS STATEMENT ON SHEET 2



SPACE RESERVED FOR RECORDING OFFICER

COORDINATE TABLE			
STATION	OFFSET	NORTHING	EASTING
518+71.13	200.02' LT	784,280.1264	346,161.4798
521+00.06	200.03' LT	784,051.1932	346,162.2485
522+00.06	220.03' LT	783,951.2608	346,182.5835
523+54.27	5.91' LT	783,796.3474	345,968.9704
523+64.27	5.86' LT	783,786.3475	345,968.9502
523+66.64	220.04' LT	783,784.6804	346,183.1418
523+66.88	241.16' LT	783,784.5161	346,204.2573
523+52.10	189.96' RT	783,797.8719	345,773.0953
523+51.89	208.73' RT	783,798.0180	345,754.3209
524+61.88	209.95' RT	783,688.0215	345,753.4633
524+64.54	30.32' LT	783,686.1514	345,993.7498
524+66.87	240.05' LT	783,684.5192	346,203.4775
526+00.06	240.05' LT	783,551.3301	346,203.9239
520+00.08	0.01' RT	784,150.5120	345,961.8785
524+64.21	0.05' LT	783,686.3871	345,963.4699

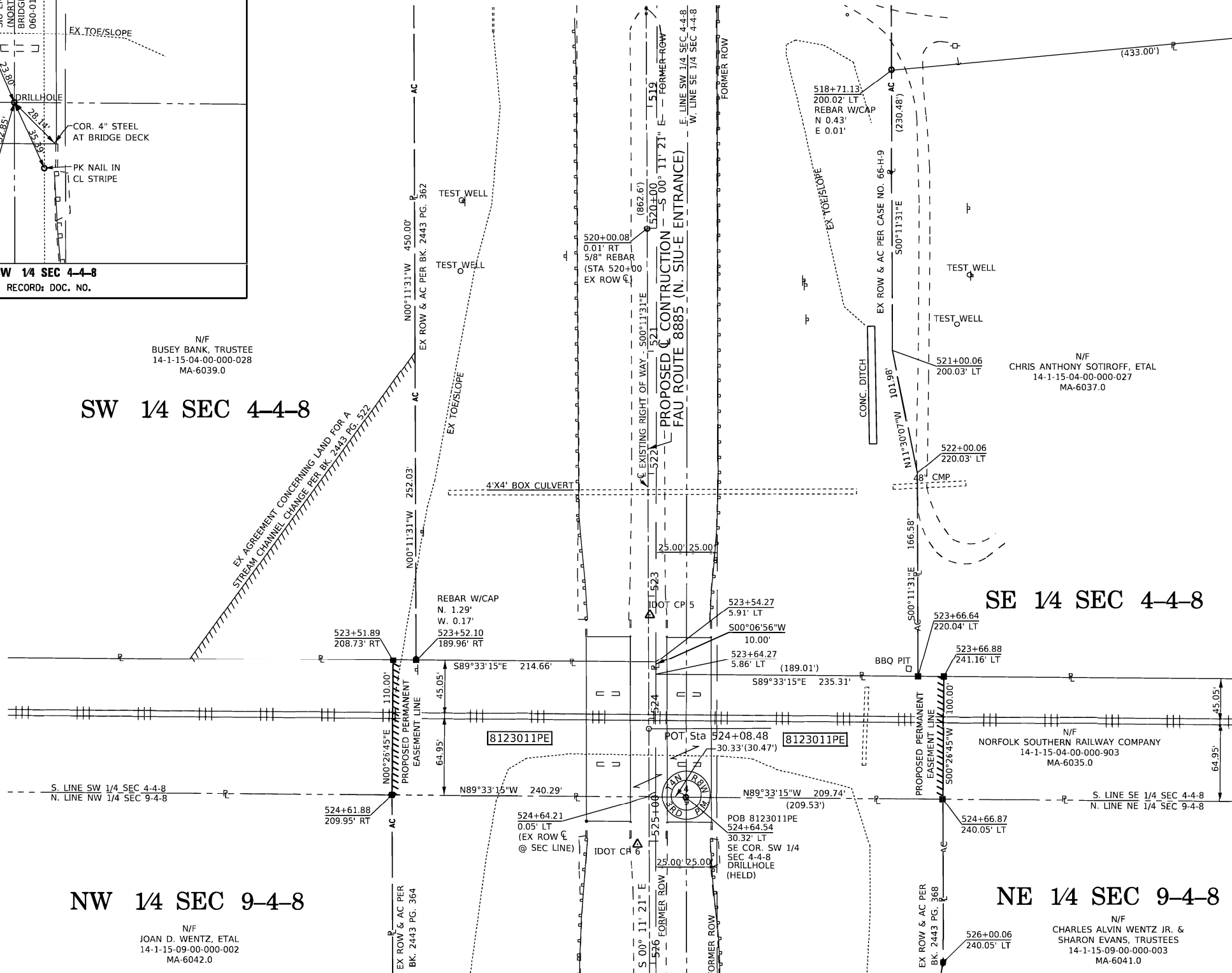


SE COR. SW 1/4 SEC 4-4-8
MONUMENT RECORD: DOC. NO.

N/F
BUSEY BANK, TRUSTEE
14-1-15-04-00-000-028
MA-6039.0

SW 1/4 SEC 4-4-8

EX. AGREEMENT CONCERNING LAND FOR A
STREAM CHANNEL CHANGE PER BK. 2443 PG. 522



SE 1/4 SEC 4-4-8

STATE OF ILLINOIS)
) SS
COUNTY OF MADISON)

I, GREGORY S. McVICAR, AN ILLINOIS PROFESSIONAL LAND SURVEYOR, STATE THAT I HAVE SURVEYED THE EASEMENT PLAT SHOWN HEREON AND THAT THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY FOR THE PROPOSED PARCEL TO BE ACQUIRED BY THE STATE OF ILLINOIS, DEPARTMENT OF TRANSPORTATION, SHOWN HEREON.

DATED _____

GREGORY S. McVICAR, PLS NO. 3512
LICENSE EXPIRATION DATE: 11/30/2024



NW 1/4 SEC 9-4-8

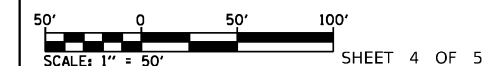
N/F
JOAN D. WENTZ, ETAL
14-1-15-09-00-000-002
MA-6042.0

NE 1/4 SEC 9-4-8

N/F
CHARLES ALVIN WENTZ JR. &
SHARON EVANS, TRUSTEES
14-1-15-09-00-000-003
MA-6041.0

PARCEL NO.	OWNER	TOTAL HOLDING ACRES	EASEMENTS		PERMANENT TAX NUMBER AFFECTED	PROPERTY ACQUIRED BY
			PE = PERMANENT ACRES	TE = TEMPORARY SQ FT		
8123011	NORFOLK SOUTHERN RAILWAY COMPANY TITLE REPORT NO. MA-6035.0	N/A	PE 1.0823	PE 47,147	14-1-15-04-00-000-903	

COMPLETION DATE OF FIELD WORK PERFORMED			
LAND SURVEY: 09/21/2021	ROW STAKING: 05/22/2023	FED. ROAD DIST. NO. _____	ILLINOIS



SHEET 4 OF 5

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8885	BI	MADISON		

CONTRACT NO. 76F88

SEE LEGENDS, TOPOGRAPHIC STATEMENT, SURVEYORS NOTE(S) AND BASIS OF COORDINATES & BEARINGS STATEMENT ON SHEET 2



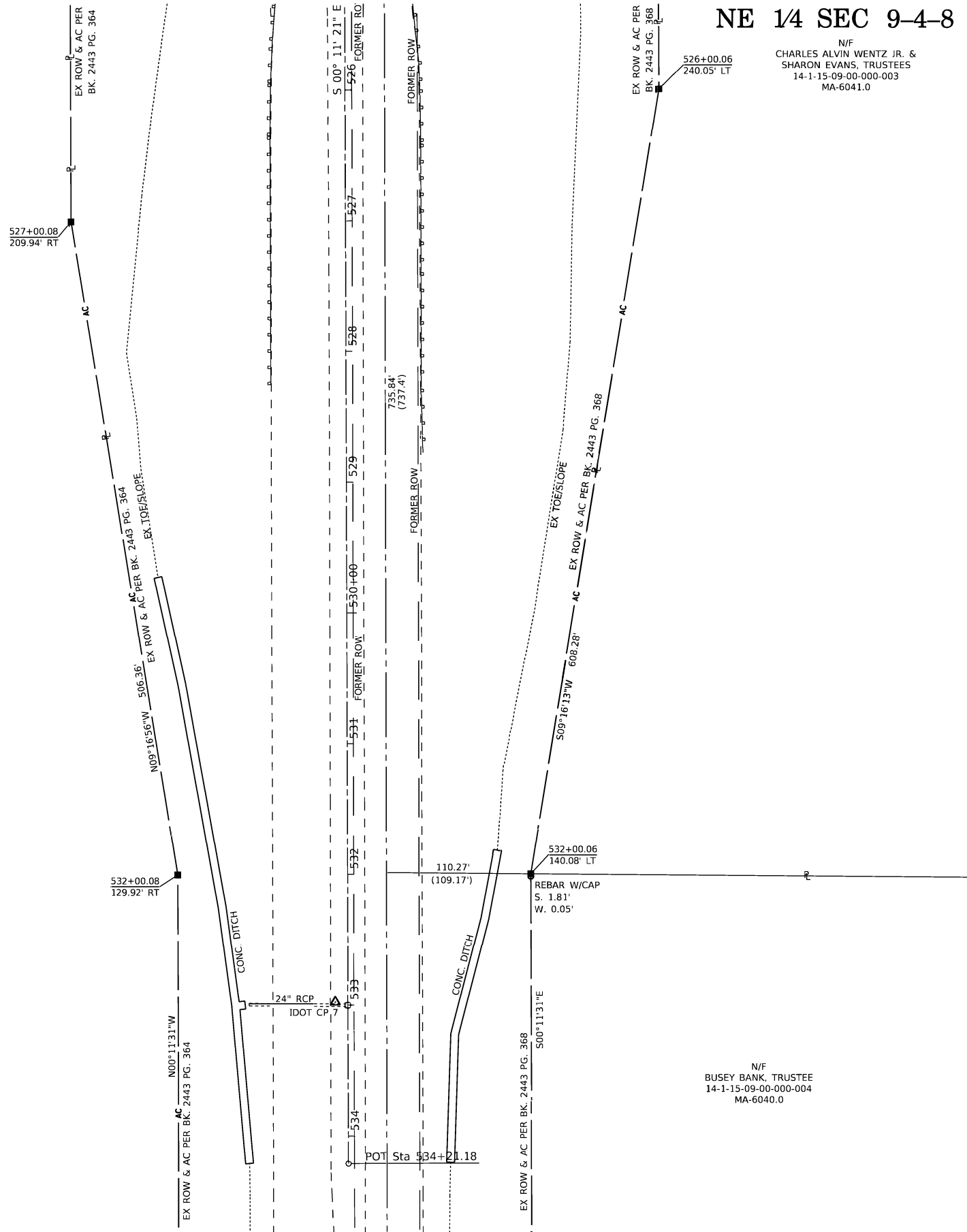
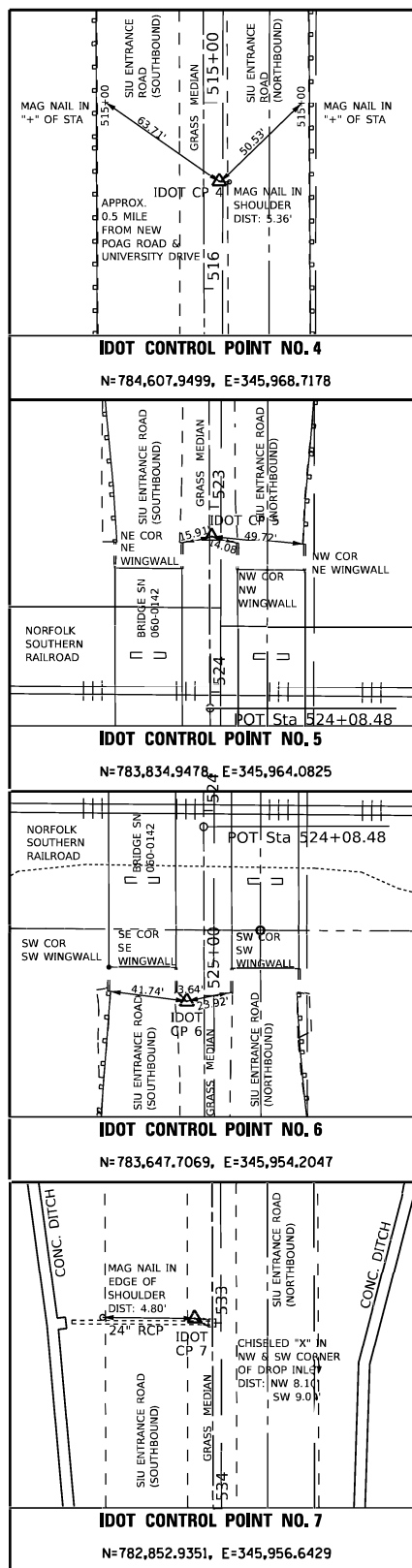
SPACE RESERVED FOR RECORDING OFFICER

NW 1/4 SEC 9-4-8

N/F
JOAN D. WENTZ, ETAL
14-1-15-09-00-000-002
MA-6042.0

NE 1/4 SEC 9-4-8

N/F
CHARLES ALVIN WENTZ JR. &
SHARON EVANS, TRUSTEES
14-1-15-09-00-000-003
MA-6041.0



COORDINATE TABLE			
STATION	OFFSET	NORTHING	EASTING
526+00.06	240.05' LT	783,551.3301	346,203.9239
527+00.08	209.94' RT	783,449.8226	345,754.2615
532+00.06	140.08' LT	782,950.9983	346,105.9351
532+00.08	129.92' RT	782,950.0935	345,835.9366
534+21.18	POT	782,729.4225	345,966.5856

STATE OF ILLINOIS)
) SS
COUNTY OF MADISON)

I, GREGORY S. McVICAR, AN ILLINOIS PROFESSIONAL LAND SURVEYOR, STATE THAT I HAVE SURVEYED THE EASEMENT PLAT SHOWN HEREON AND THAT THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY FOR THE PROPOSED PARCEL TO BE ACQUIRED BY THE STATE OF ILLINOIS, DEPARTMENT OF TRANSPORTATION, SHOWN HEREON.

DATED _____

GREGORY S. McVICAR, PLS NO. 3512
LICENSE EXPIRATION DATE: 11/30/2024



SHERRILL ASSOCIATES, INC.
Engineers - Surveyors - Planners
Professional Design Firm Number 184-001238
316 North Main Street Tel. 618-656-9251
Edwardsville, IL 62025 Fax 618-656-9496

ILLINOIS DEPARTMENT OF TRANSPORTATION
PLAT OF HIGHWAY
FAU ROUTE 8885 (N. SIU-E ENTRANCE)
SECTION BI
MADISON COUNTY
JOB NO. R-98-023-21
STA. 526+50 TO STA. 534+21.18

SCALE: 1" = 50'

ILLINOIS DEPARTMENT OF TRANSPORTATION
OFFICE OF HIGHWAYS PROJECT IMPLEMENTATION/REGION 5/DISTRICT 8
1102 EASTPORT PLAZA DRIVE
COLLINSVILLE, ILLINOIS 62234-6198

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8885	BI	MADISON		

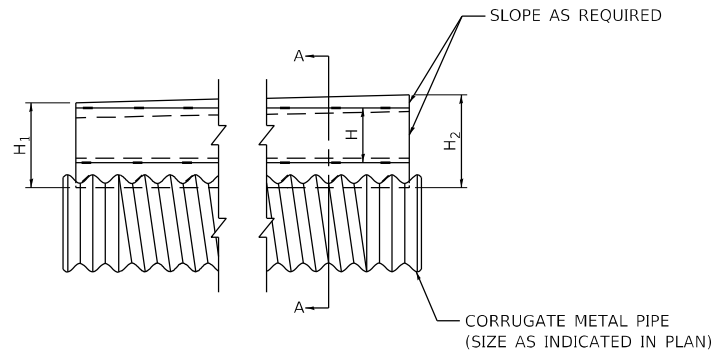
COMPLETION DATE OF FIELD WORK PERFORMED
LAND SURVEY: 09/21/2021 ROW STAKING: 05/22/2023

CONTRACT NO. 76F88
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT

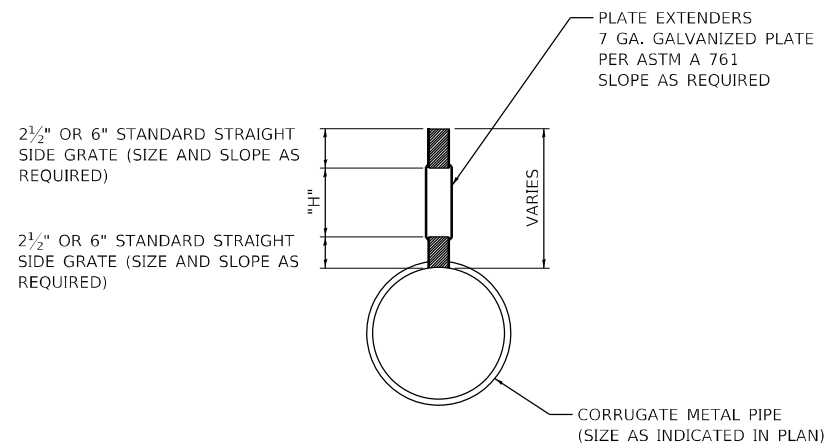
SLOTTED DRAIN DETAIL

LOADING CONDITION	MAX. EXTENDER HEIGHT - "H"
H20/H25 * 750 PSI CONCRETE	19"

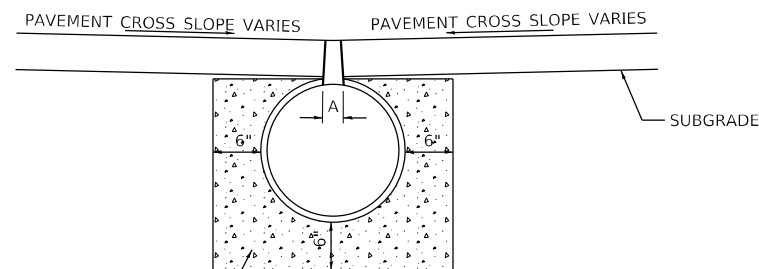
* 125 PSI TIRE PRESSURE



SIDE VIEW VARIABLE HEIGHT GRATE



SECTION A-A



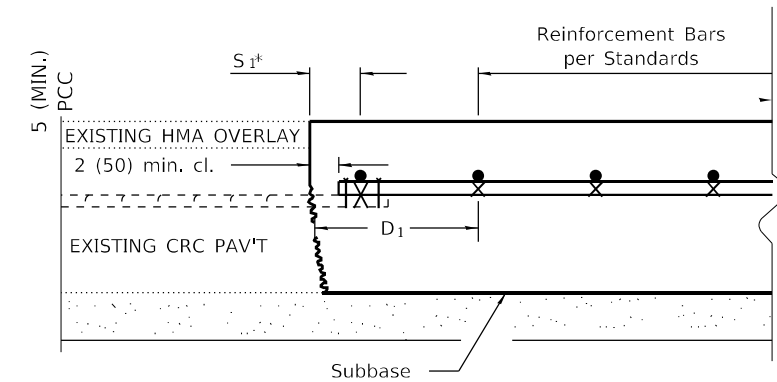
GRATE TYPE	"A"	
VERT	2 1/2"	1 3/4"
VERT	6"	1 3/4"
TRAP	2 1/2"	2 1/4"
TRAP	6"	6"

VERT = VERTICAL
TRAP = TRAPEZOIDAL

NOTES:

- DIMENSIONS ARE SUBJECT TO MANUFACTURING TOLERANCES.
- DIMENSIONS FOR H₁ AND H₂ AS REQUIRED.
- H₁ AND H₂ MEASURED FROM TOP OF GRATE TO BOTTOM OF GRATE.

NOT TO SCALE



* Variable: Where S₁ is 2 1/2 (65) min. and 12 (300) max. D₁ = 2(S₁).

CRCP JOINT DETAIL TO EXISTING CRC PAVEMENT

NOT TO SCALE

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PLOT DATE = 6/28/2023	CHECKED - WJS	REVISED -
	DATE - 06/27/2023	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

CONSTRUCTION DETAILS

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8885	BI	MADISON	76	42
CONTRACT NO. 76F88				
ILLINOIS FED. AID PROJECT				

SCOPE OF WORK

1. Pre-Stage repairs for Stage 1 Traffic.
2. Remove and replace existing deck, PPC beams, etc. with concrete deck, galvanized steel beams, bearings, abutment back walls, and railings.
3. Retrofit abutment back walls and wing wall to semi-integral type.
4. Repair deteriorated concrete on substructures per Bridge Condition Report.
5. Remove and replace approach slabs, removing portion of wingwalls to accommodate.
6. Repair existing and install replacement slopewall where required.

DESIGN SPECIFICATIONS

2020 AASHTO LRFD Bridge Design Specifications, 9th Edition, 1995 FHWA Seismic Retrofit Manual

LOADING HL-93 (New Const.)

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

SEISMIC DATA

Seismic Performance Category (SPC) = B
Acceleration Coefficient (A) = 0.095g
Site Coefficient (S) = 1.0

DESIGN STRESSES

FIELD UNITS (New Const.)

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

FIELD UNITS (Exist. Const. 1968)

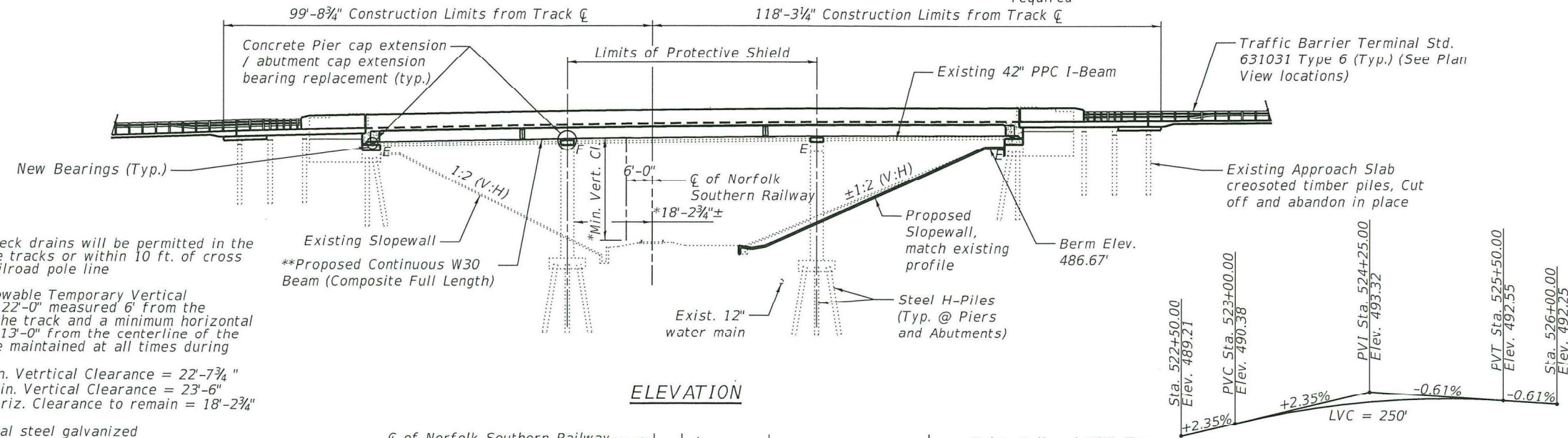
f'c = 3,500 psi (Substructure)
fy = 40,000 psi (Substructure reinforcement)

B.M. 200 - RR spike in pavement east shoulder of Bridge 060-0142 N.B. Sta. 515+06.29, Elev. 466.75'
B.M. 201 - RR spike in pavement west shoulder of Bridge 060-0143 S.B. Sta. 522+01.30, Elev. 487.30'
B.M. 202 - Chisled "d" on top of head wall west of Bridge 060-0143 S.B. Sta. 532+99.75, Elev. 481.52'

Traffic: Crossovers will be used to maintain one lane of traffic in each direction during construction

Existing Structure: SN 060-0142 (NB) and 060-0143 (SB) was originally constructed in 1968 as F.A.S. Section 1-VB and 1-HB over the Norfolk Southern Railroad. The existing structures were constructed as 3-span continuous precast prestressed concrete multi-beam supported on reinforced concrete stub abutments and single hammerhead solid wall piers, both supported by steel H-Piles. The roadway and superstructure have no skew. The substructures has a skew of 0°40'45". The bridges are both 154'-0" back-to-back of abutments and has a width of 36'-0".

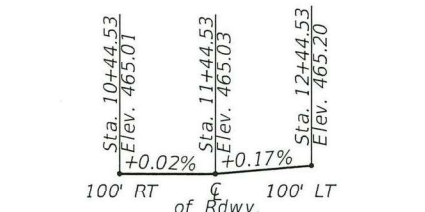
Salvage: None.



ELEVATION

PROFILE GRADE

(Along C NB & SB FAU Rte. 8885)



TOP OF RAIL ELEVATIONS

INDEX OF SHEETS

1. General Plan & Elevation
2. General Data
3. Pre-Stage Repairs
4. Stage Construction Details
5. Temporary Concrete Barrier
- 6-13. Slab Elevation Plan & Tables
14. Superstructure Plan & Section
15. Superstructure Details
16. Diaphragm Details
17. Approach Pavements Plan & Section
18. Approach Pavements Details
19. Framing Plan & Details
20. Composite Steel Beam Design
21. Bearing Details
22. Slipform Detail
- 23-24. Structural Concrete Removal and Repair
- 25-28. Concrete Cap Extension Details

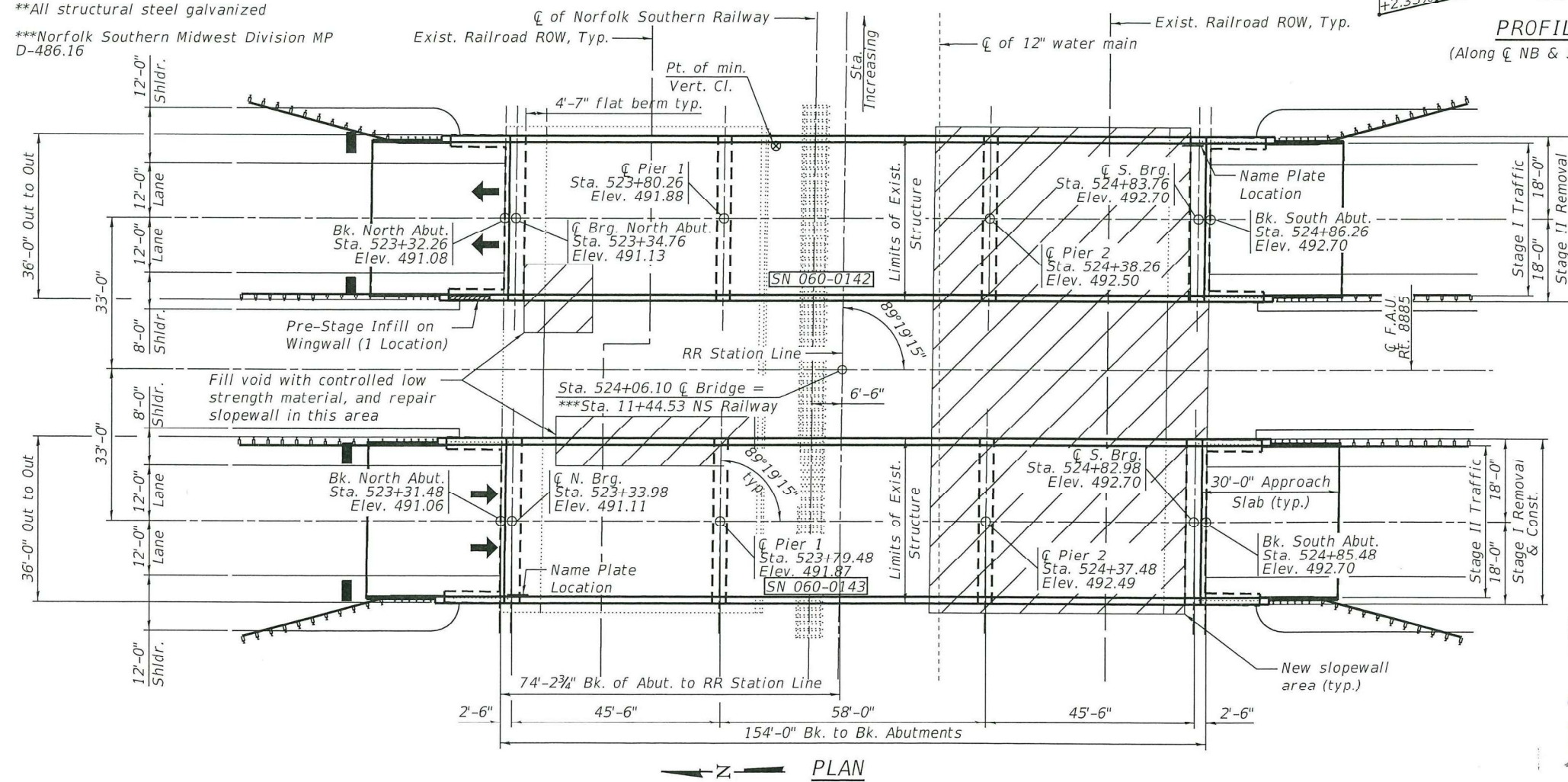
Note:

No freefall deck drains will be permitted in the span over the tracks or within 10 ft. of cross arms of a railroad pole line

*Minimum Allowable Temporary Vertical Clearance of 22'-0" measured 6' from the centerline of the track and a minimum horizontal clearance of 13'-0" from the centerline of the track is to be maintained at all times during construction.
-Existing Min. Vertical Clearance = 22'-7 3/4"
-Proposed Min. Vertical Clearance = 23'-6"
-Existing Horiz. Clearance to remain = 18'-2 3/4"

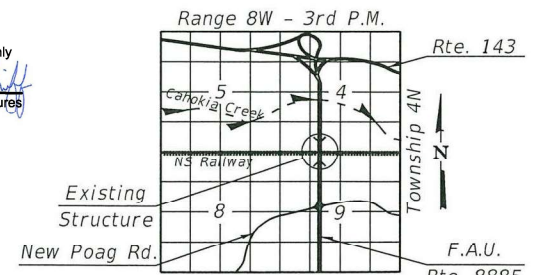
**All structural steel galvanized

***Norfolk Southern Midwest Division MP D-486.16



PLAN

APPROVED
For Structural Adequacy Only
Jan F. [Signature]
Engineer of Bridges & Structures



LOCATION SKETCH

GENERAL PLAN & ELEVATION
SIUE NORTH ENTRANCE ROAD
OVER NORFOLK SOUTHERN RAILWAY

FAU 8885 SECTION BI

MADISON COUNTY

STA. 524+06.10

STRUCTURE NO. 060-0142 (NB)

STRUCTURE NO. 060-0143 (SB)



MODEL: P:\2023\487-2\Design\Design\FAU 8885 SIUE N. Entrance Rd over N&W RR 76F88\CADD Sheets\081723-001-GPE.dgn

BA
BENTON & ASSOCIATES, INC.
1970 N. Lafayette Ave., Springfield, IL 62760
618-241-0100
Single Design Firm Registration No. 06-00002

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	CHECKED - MBH	REVISD -
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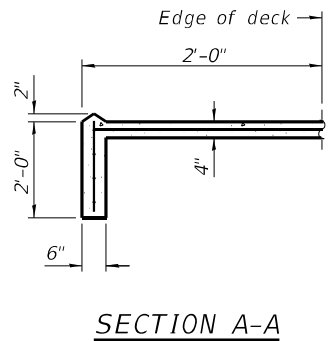
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN & ELEVATION
STRUCTURE NO. 060-0142 & STRUCTURE NO. 060-0143

FAU. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8885	BI	MADISON	76	43
CONTRACT NO. 76F88				
FED. ROAD DIST. NO. 8 ILLINOIS FED. AID PROJECT				

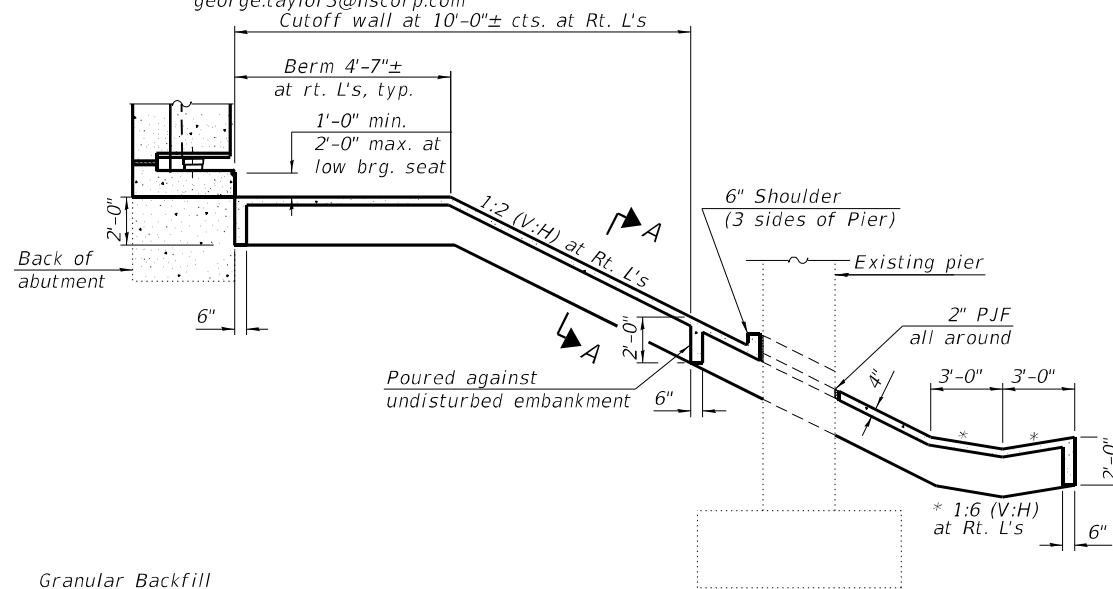
GENERAL NOTES

- Fasteners shall be ASTM F3125 Grade A325 Type 1. Fasteners shall be hot dip galvanized. See Special Provision for "Hot Dip Galvanizing for Structural Steel." Bolts 7/8" diameter, holes 1 5/16" diameter, unless otherwise noted.
- Calculated weight of Structural Steel =
 AASHTO M270 Grade 50 = 114,080 lbs (SN 060-0142); 114,080 lbs (SN 060-0143)
 AASHTO M270 Grade 36 = 13,450 lbs (SN 060-0142); 13,450 lbs (SN 060-0143)
 Total = 127,530 lbs (SN 060-0142); 127,530 lbs (SN 060-0143)
- All new structural steel shall be galvanized. See Special Provision for "Hot Dip Galvanizing for Structural Steel."
- No field welding is permitted except as specified in the contract documents.
- Reinforcement bars designated (E) shall be epoxy coated.
- Bearing seat surfaces shall be constructed or adjusted to the designated elevations within a tolerance of 1/8 in. (0.01 ft.). Adjustment shall be made either by grinding the surface or by shimming the bearings.
- Plan dimensions and details relative to the existing structure have been taken from 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.
- New Bridge Superstructure eliminates deck drains and diverts drainage to roadway drains.
- The elevations of the existing top-of-rail profile shall be verified before beginning construction. All discrepancies shall be brought to the attention of the Norfolk Southern Public Improvements Engineer.
- For Projects exceeding 30 days of construction, the Contractor shall provide the Railroad Protective Services personnel a small work area with a desk/counter and chair within the field/site trailer, including the use of bathroom facilities, where the Railroad Protective Services personnel can check in/out with the Project, as well as to the Railroad Protective Services personnel's home terminal. The work area should provide access to two (2) electrical outlets for recharging radio(s), and a laptop computer; and have the ability to print off needed documentation and orders as needed at the field/site trailer. This should aid in maximizing the Railroad Protective Services personnel's time and efficiency on the Project
- All work to be performed on, over, under or adjacent to the Railroad right-of-way shall comply with the Norfolk Southern Railway Company Public Improvements Projects Manual (Appendix E and Appendix H.1). When in conflict with other project specifications, the most stringent one shall apply.
- Norfolk Southern Railroad Contact Information:
 George (Brian) Taylor
 Engineer Public Improvements (DE, IL, MD, NC, VA, & WV)
 Norfolk Southern Corporation
 650 West Peachtree St., NW Box 45
 Atlanta, GA 30308
 (470) 463-7534 (o)
 george.taylor3@nscorp.com



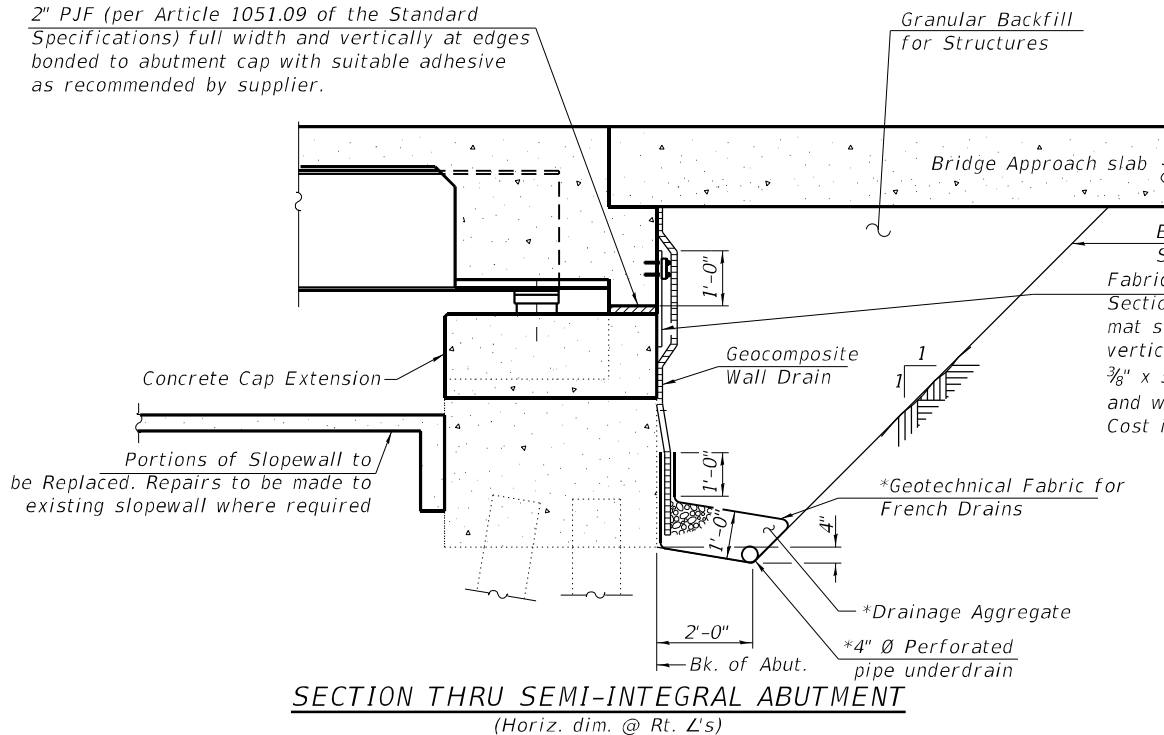
SECTION A-A

2" PJF (per Article 1051.09 of the Standard Specifications) full width and vertically at edges bonded to abutment cap with suitable adhesive as recommended by supplier.



SECTION THRU CONCRETE SLOPEWALL

Sloped wall shall be reinforced with welded wire fabric, 6in. x 6in.-W4.0xW4.0, weighing 58 lbs per 100 sq. ft. (See sheet 1 of 28 for areas of sloped wall removal and repair)



SECTION THRU SEMI-INTEGRAL ABUTMENT
(Horiz. dim. @ Rt. L's)

Excavation is paid for as Structure Excavation.
 Fabric Reinforced Elastomeric Mat according to Section 1028 of the Standard Specifications. 1 mat shall be 24" wide and attached full width vertically at edges to the abutment cap with a 3/8" x 5" steel plate and 1/2" Ø studs with nuts and washers at 12" cts. Cost included with Concrete Superstructure.

*Included in the cost of Pipe Underdrains for Structures.

Note:
 All drainage system components shall extend to the inside face of the existing wingwall except an outlet pipe shall extend until intersecting with the side slopes. The pipes shall drain into concrete headwalls. (See Article 601.05 of the Standard Specifications and Highway Standard 601101).

SN 060-0142 TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Removal of Existing Superstructures, No. 1	Each	1	-	1
Concrete Removal	Cu. Yd.	-	32.0	32.0
Slope Wall Removal	Sq. Yd.	-	395	395
Protective Shield	Sq. Yd.	232	-	232
Structure Excavation	Cu. Yd.	-	115	115
Concrete Structures	Cu. Yd.	-	34.8	34.8
Concrete Superstructure	Cu. Yd.	220.2	-	220.2
Bridge Deck Grooving	Sq. Yd.	735	-	735
Protective Coat	Sq. Yd.	960	-	960
Concrete Superstructure (Approach Slab)	Cu. Yd.	104.4	-	104.4
Furnishing and Erecting Structural Steel	L. Sum	0.5	-	0.5
Stud Shear Connectors	Each	4,194	-	4,194
Reinforcement Bars, Epoxy Coated	Pound	92,010	-	92,010
Slope Wall, 4"	Sq. Yd.	-	395	395
Name Plate	Each	1	-	1
Elastomeric Bearing Assembly, Type 1	Each	-	18	18
Anchor Bolts, 3/4"	Each	-	36	36
Anchor Bolts, 1"	Each	-	12	12
Granular Backfill for Structures	Cu. Yd.	-	115	115
Geocomposite Wall Drain	Sq. Yd.	-	50	50
Controlled Low-Strength Material	Cu. Yd.	-	78	78
Pipe Underdrains for Structures, 4"	Foot	-	74	74
Structural Repair of Concrete (Depth equal to or less than 5 inches)	Sq. Ft.	-	10	10
Slope Wall Repair	Sq. Yd.	-	25	25

SN 060-0143 TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Removal of Existing Superstructures, No. 2	Each	1	-	1
Concrete Removal	Cu. Yd.	-	32.0	32.0
Slope Wall Removal	Sq. Yd.	-	395	395
Protective Shield	Sq. Yd.	232	-	232
Structure Excavation	Cu. Yd.	-	115	115
Concrete Structures	Cu. Yd.	-	33.9	33.9
Concrete Superstructure	Cu. Yd.	220.2	-	220.2
Bridge Deck Grooving	Sq. Yd.	735	-	735
Protective Coat	Sq. Yd.	960	-	960
Concrete Superstructure (Approach Slab)	Cu. Yd.	104.4	-	104.4
Furnishing and Erecting Structural Steel	L. Sum	0.5	-	0.5
Stud Shear Connectors	Each	4,194	-	4,194
Reinforcement Bars, Epoxy Coated	Pound	92,010	-	92,010
Slope Wall, 4"	Sq. Yd.	-	395	395
Name Plate	Each	1	-	1
Elastomeric Bearing Assembly, Type 1	Each	-	18	18
Anchor Bolts, 3/4"	Each	-	36	36
Anchor Bolts, 1"	Each	-	12	12
Granular Backfill for Structures	Cu. Yd.	-	115	115
Geocomposite Wall Drain	Sq. Yd.	-	50	50
Controlled Low-Strength Material	Cu. Yd.	-	93	93
Pipe Underdrains for Structures, 4"	Foot	-	74	74
Structural Repair of Concrete (Depth equal to or less than 5 inches)	Sq. Ft.	-	3	3
Slope Wall Repair	Sq. Yd.	-	55	55

STATION
 RE-BUILT 20__ BY
 STATE OF ILLINOIS
 F.A.U. RTE. 8885 - SECTION BI
 LOADING HL-93
 STRUCTURE NO. 060-142 (N.B.)

STATION
 RE-BUILT 20__ BY
 STATE OF ILLINOIS
 F.A.U. RTE. 8885 - SECTION BI
 LOADING HL-93
 STRUCTURE NO. 060-143 (S.B.)

NAME PLATE
 See Std. 515001

Note:
 The existing Name Plate is to be cleaned and relocated next to new Name Plate. Cost included with Name Plates.

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

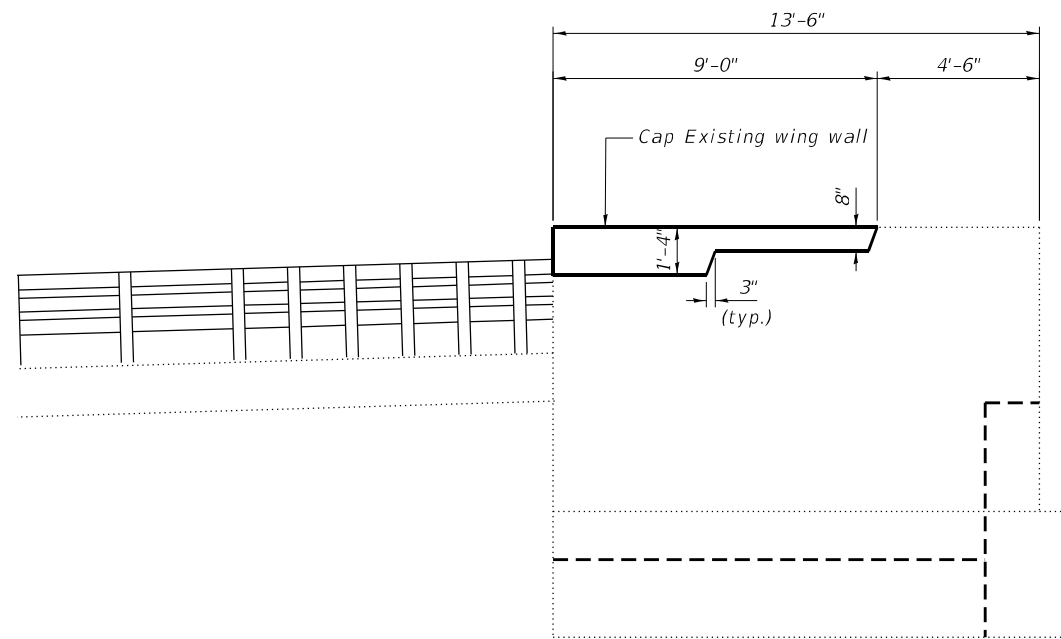
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SHEET 2 OF 28 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8885	BI	MADISON	76	44
CONTRACT NO. 76F88				
FED. ROAD DIST. NO. 8 ILLINOIS FED. AID PROJECT				

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ELEVATION
Structure #060-0142 (NB) North Approach West Wingwall Repairs

BILL OF MATERIAL

Item	Unit	Total
Concrete Structures	Cu Yd	0.4

BA
BENTON & ASSOCIATES, INC.
1910 W. Lafayette Ave., Joplin, MO 64804
417-783-4466 FAX 417-783-4468
Professional Seal: 0000000000

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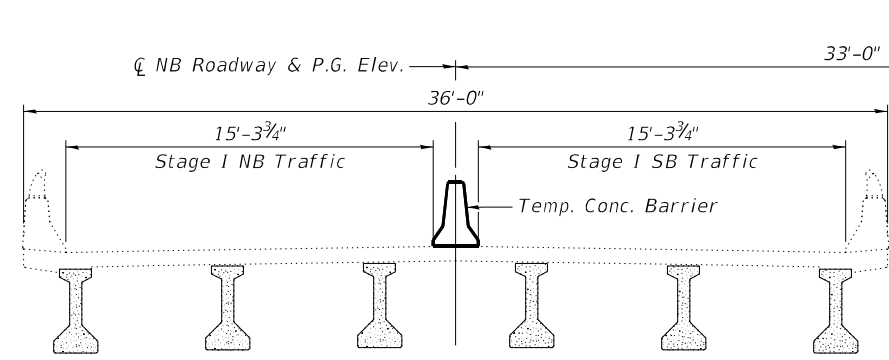
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PRE-STAGE REPAIRS
STRUCTURE NO. 060-0142 & STRUCTURE NO. 060-0143

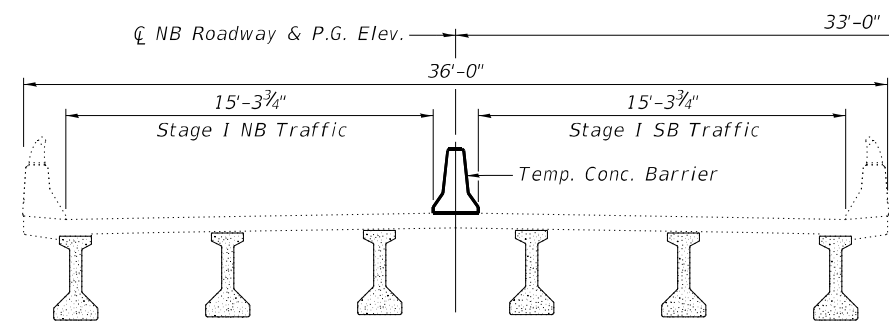
SHEET 3 OF 28 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8885	BI	MADISON	76	45
FED. ROAD DIST. NO. 8 ILLINOIS FED. AID PROJECT			CONTRACT NO. 76F88	

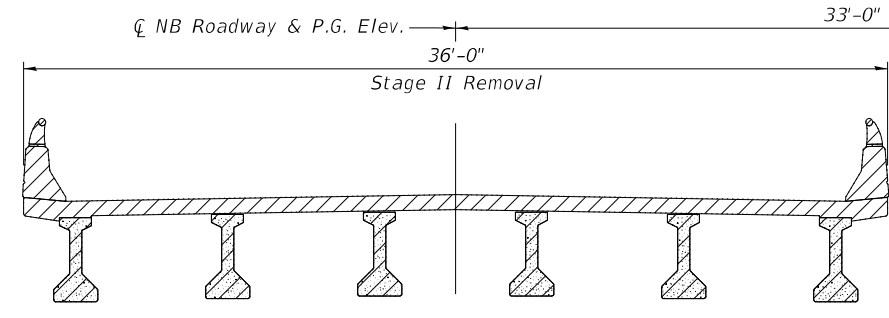
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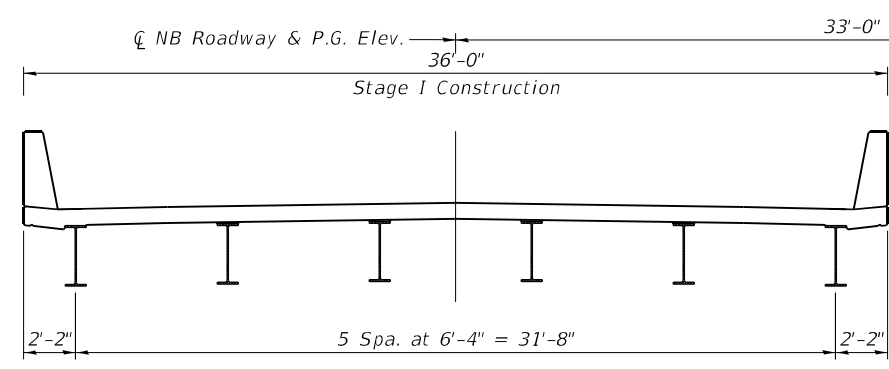
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(SN 060-0142)



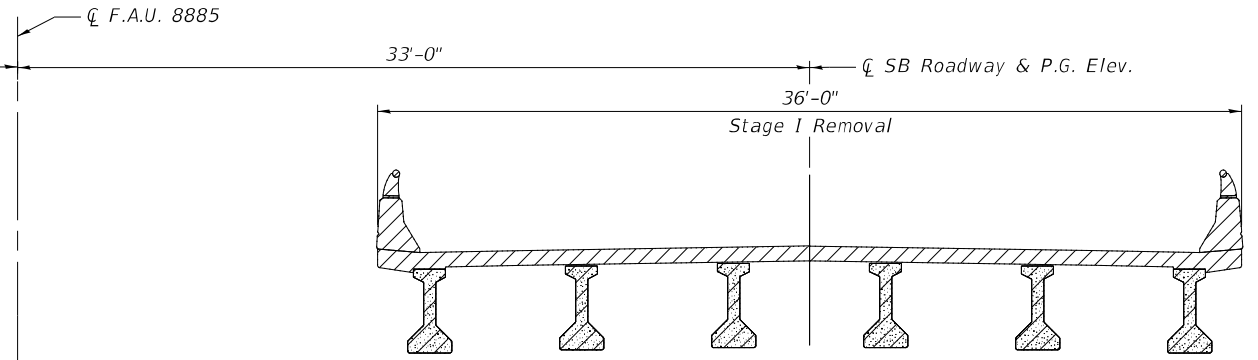
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(SN 060-0142)



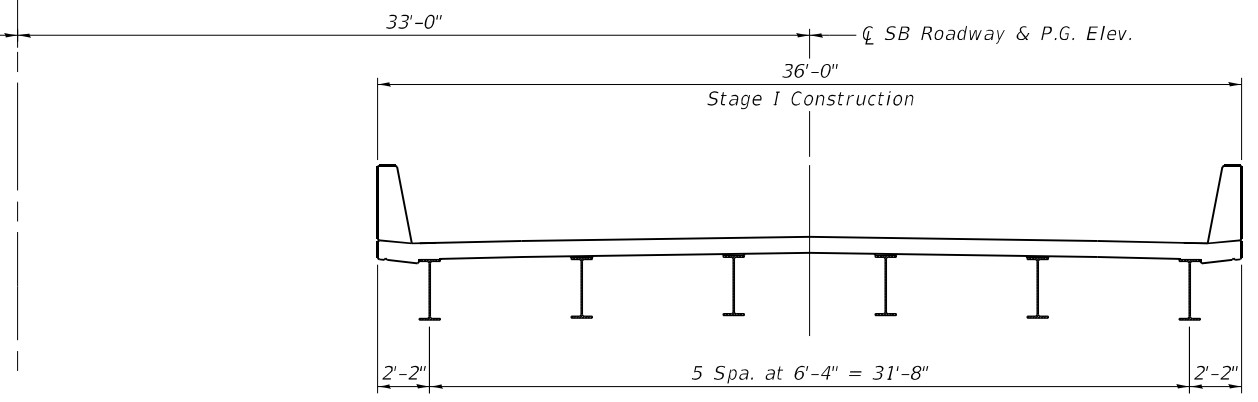
STAGE II REMOVAL
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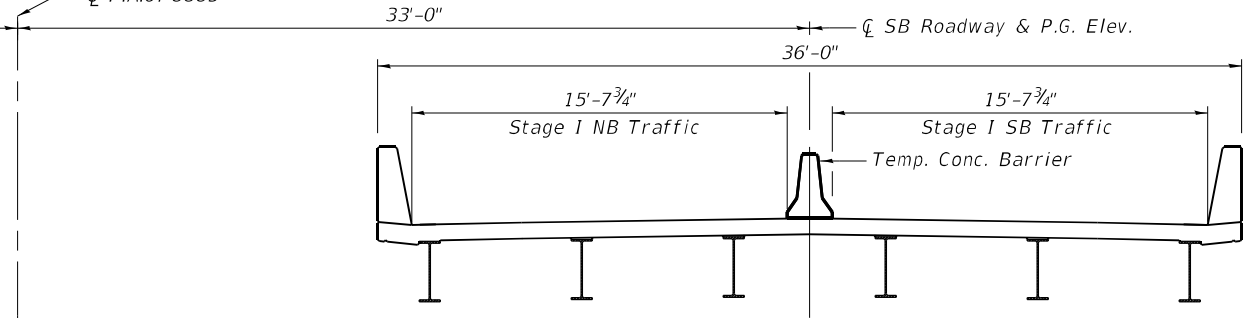
STAGE II CONSTRUCTION
(SN 060-0142)



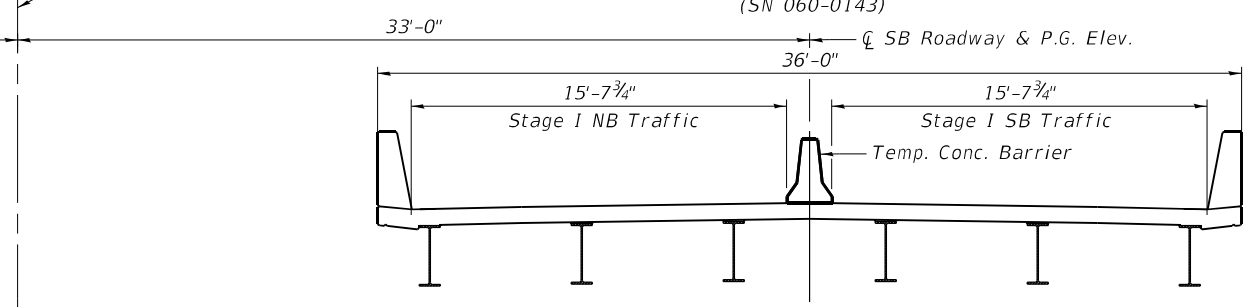
STAGE I REMOVAL
(SN 060-0143)



STAGE I CONSTRUCTION
(SN 060-0143)



STAGE II TRAFFIC
(SN 060-0143)



STAGE II TRAFFIC
(SN 060-0143)

Notes:
All staging cross sections are looking South.
For quantity of Temporary Concrete Barrier, see roadway plans.
Hatched area indicates Removal of Superstructure

BA BENTON & ASSOCIATES, INC.
1910 N. Lafayette Ave., Naperville, IL 62560
630.206.4600 FAX 630.206.4601
www.ba-inc.com
Professional Seal: 00000000

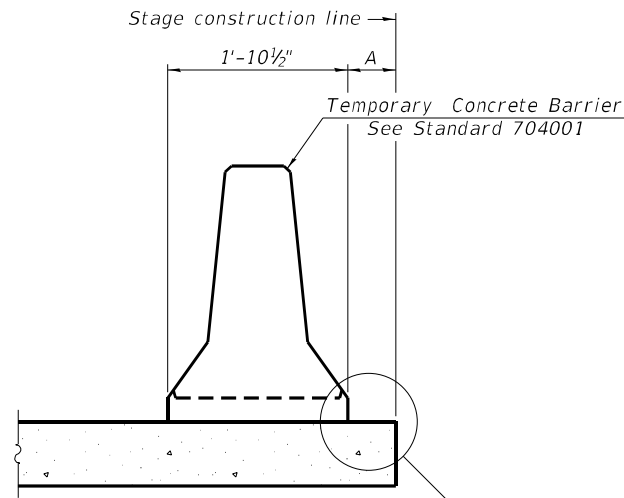
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PLOT DATE =	8/17/2023	CHECKED -	MBH	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STAGE CONSTRUCTION DETAILS
STRUCTURE NO. 060-0142 & STRUCTURE NO. 060-0143

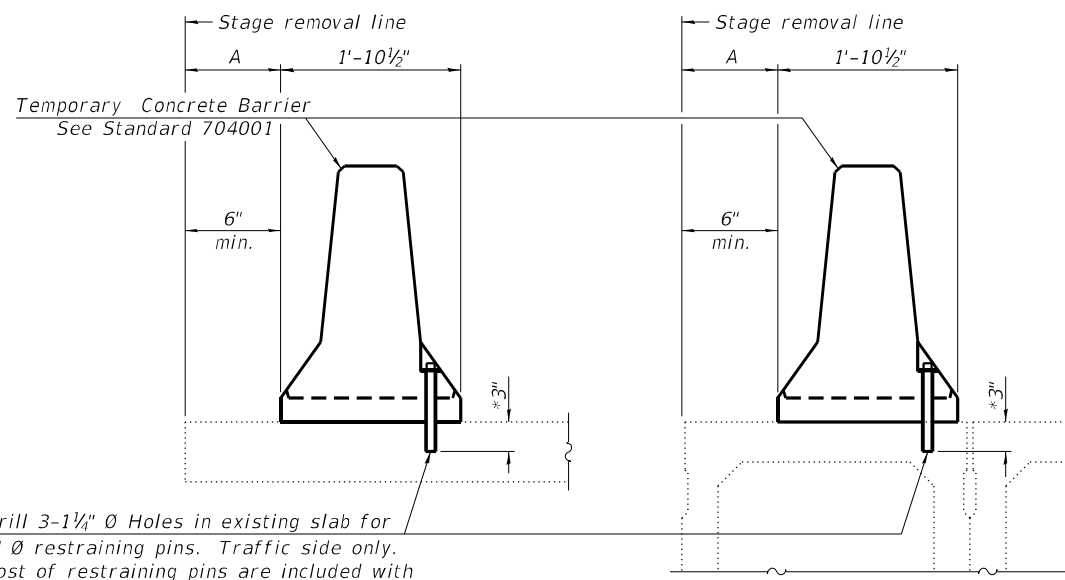
SHEET 4 OF 28 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8885	BI	MADISON	76	46
CONTRACT NO. 76F88				
FED. ROAD DIST. NO. 8 ILLINOIS FED. AID PROJECT				



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

NEW SLAB OR NEW DECK BEAM



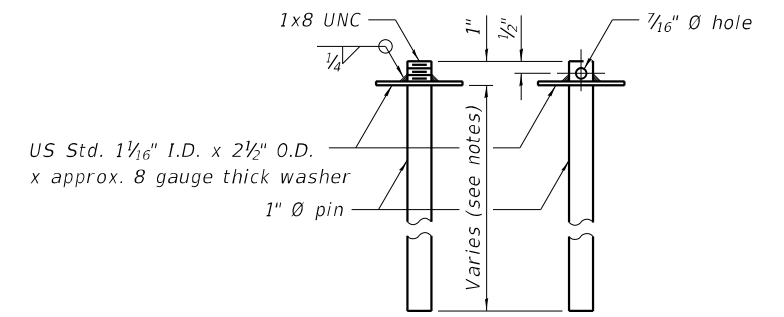
Drill 3-1/4" Ø Holes in existing slab for 1" Ø restraining pins. Traffic side only. Cost of restraining pins are included with Temporary Concrete Barrier. No restraint is required when "A" is greater than 3'-1".

EXISTING SLAB

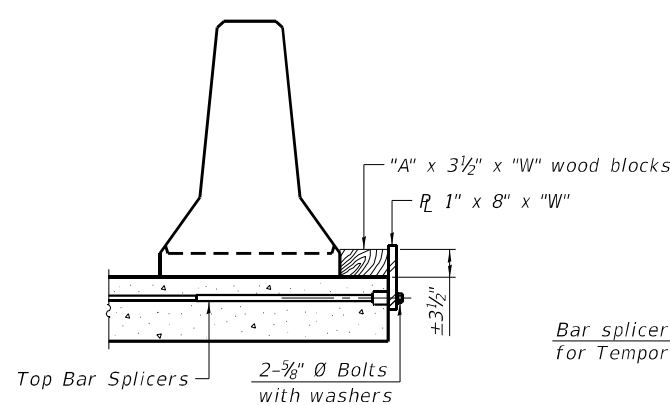
EXISTING DECK BEAM

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

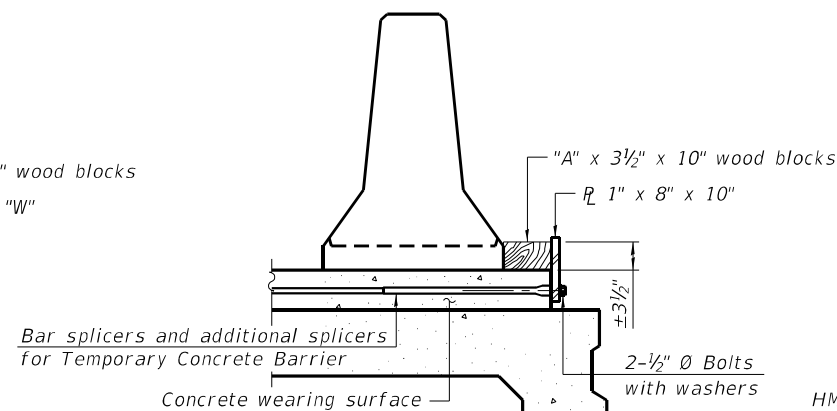
SECTIONS THRU SLAB OR DECK BEAM



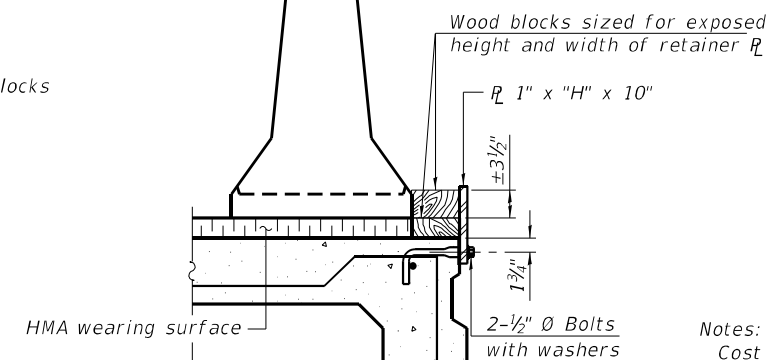
RESTRAINING PIN



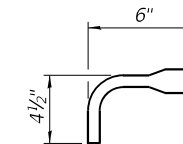
DETAIL I



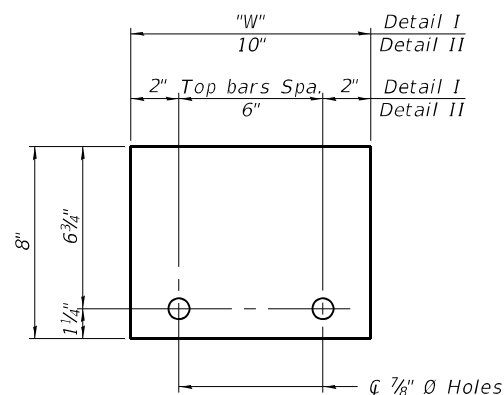
DETAIL II



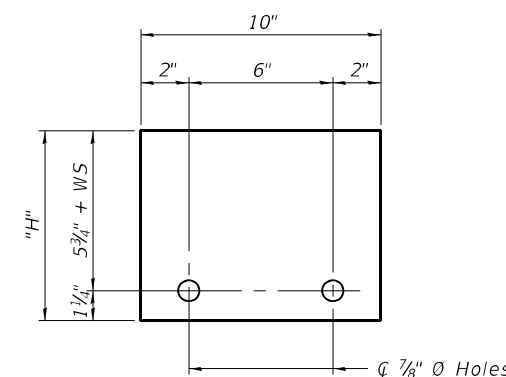
DETAIL III



BAR SPLICER FOR #4 BAR - DETAIL III



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



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

Notes:
 Cost of retainer assembly is included with Temporary Concrete Barrier.
 A retainer assembly shall be located at the approximate \bar{C} of each temporary concrete barrier.
 The retainer plate shall not be removed until the concrete on the adjacent stage is ready to be poured. For Detail III applications the retainer plate shall not be removed until just prior to placing the adjacent beam.
 When the 'A' dimension is less than 1 1/2', the wood block shall be omitted and the barrier shall be placed in direct contact with the steel retainer plate. For deck beam applications the minimum required 'A' distance is 6" to accommodate the shear key clamping device.

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

RAILING CRITERIA

NCHRP 350 Test Level	3
Railing Weight (plf)	440

R-27 10-12-2021

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

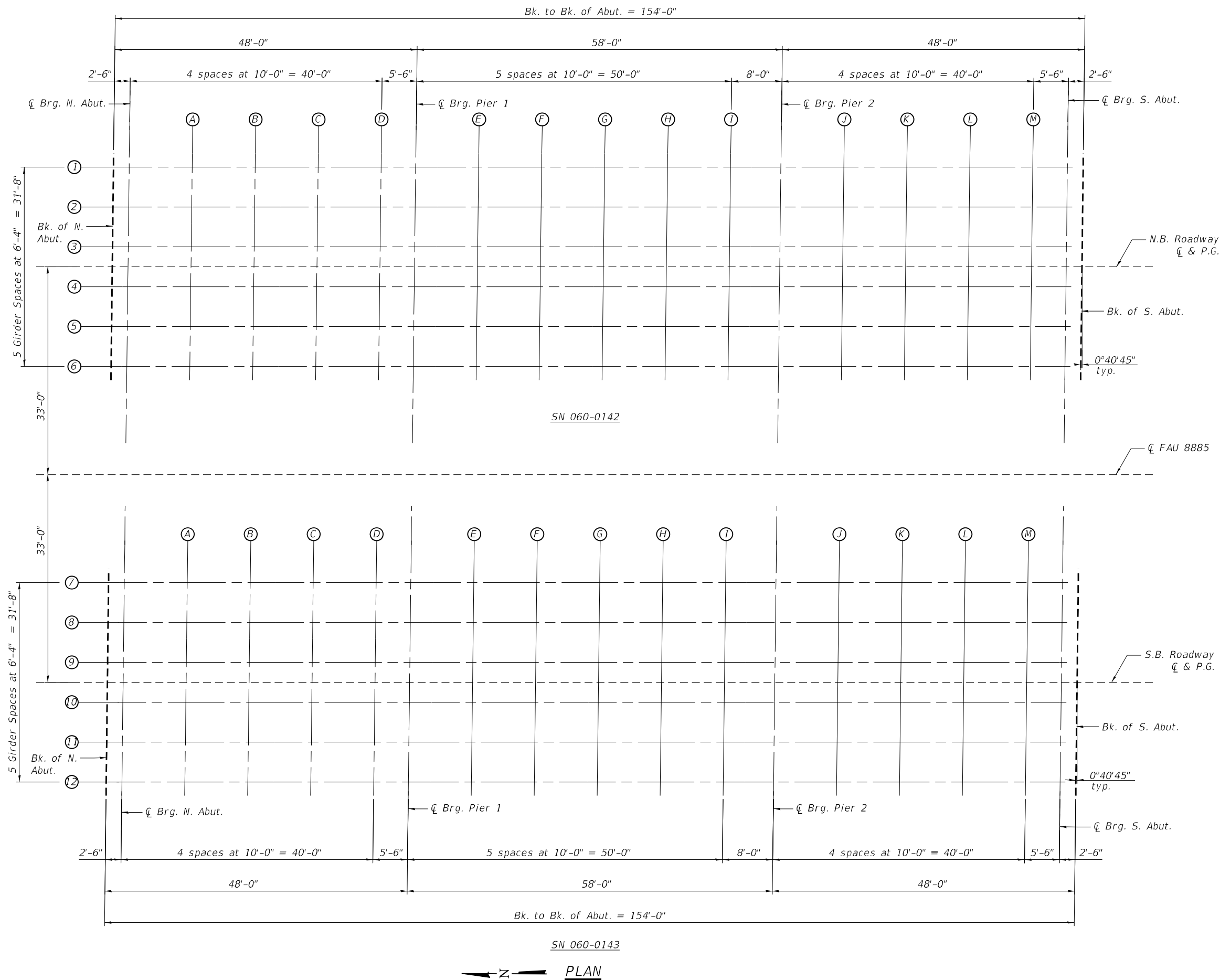
TEMPORARY CONCRETE BARRIER
STRUCTURE NO. 060-0142 & STRUCTURE NO. 060-0143

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8885	BI	MADISON	76	47
FED. ROAD DIST. NO. 8 ILLINOIS FED. AID PROJECT			CONTRACT NO. 76F88	

SHEET 5 OF 28 SHEETS

MODEL: P:\20E3487-2\Design\Design\FAU 8885 SIUE N. Entrance Rd over N&W RR 76F88\CADD Sheets\0876F88-005-Temporary Barrier-Details.dgn

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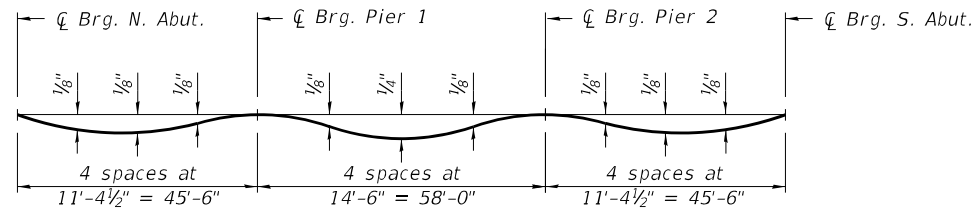


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		CHECKED -	MBH	REVISED -	
PLOT SCALE =	2:0" / ft.	DRAWN -	CML	REVISED -	
PLOT DATE =	8/17/2023	CHECKED -	MBH	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TOP OF SLAB ELEVATION PLAN
STRUCTURE NO. 060-0142 & STRUCTURE NO. 060-143

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8885	BI	MADISON	76	48
CONTRACT NO. 76F88				
FED. ROAD DIST. NO. 8 ILLINOIS FED. AID PROJECT				

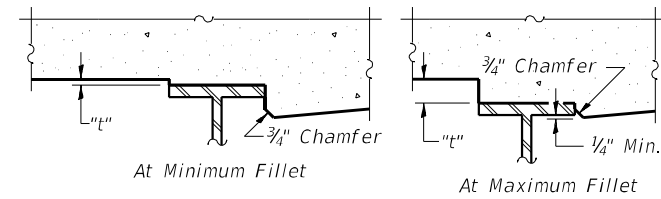


DEAD LOAD DEFLECTION DIAGRAM

(Includes weight of concrete only.)

Note:

The above deflections are not to be used in the field if the engineer is working from the grade elevations adjusted for dead load deflections in the following tables.



To determine "t": After all structural steel has been erected, elevations of the top flanges of the beams shall be taken at intervals shown on Sheet 6 of 28. These elevations subtracted from the "Theoretical Grade Elevations Adjusted For Dead Load Deflection" shown on Sheets 7-9 of 28, minus slab thickness, equals the fillet heights "t" above top flange of beams.

FILLET HEIGHTS

GIRDER 1

Location	Station	Offset from Centerline FAU 8885	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. N. Abut.	523+32.45	-48.83'	490.82'	490.82'
☉ Brg. N. Abut.	523+34.95	-48.83'	490.87'	490.87'
A	523+44.95	-48.83'	491.06'	491.08'
B	523+54.95	-48.83'	491.24'	491.26'
C	523+64.95	-48.83'	491.40'	491.41'
D	523+74.95	-48.83'	491.55'	491.55'
☉ Brg. Pier 1	523+80.45	-48.83'	491.63'	491.63'
E	523+90.45	-48.83'	491.76'	491.78'
F	524+00.45	-48.83'	491.89'	491.91'
G	524+10.45	-48.83'	492.00'	492.03'
H	524+20.45	-48.83'	492.10'	492.12'
I	524+30.45	-48.83'	492.18'	492.19'
☉ Brg. Pier 2	524+38.45	-48.83'	492.24'	492.24'
J	524+48.45	-48.83'	492.31'	492.31'
K	524+58.45	-48.83'	492.36'	492.38'
L	524+68.45	-48.83'	492.40'	492.42'
M	524+78.45	-48.83'	492.43'	492.44'
☉ Brg. S. Abut.	524+83.95	-48.83'	492.44'	492.44'
Bk. S. Abut.	524+86.45	-48.83'	492.45'	492.45'

GIRDER 2

Location	Station	Offset from Centerline FAU 8885	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. N. Abut.	523+32.37	-42.50'	490.94'	490.94'
☉ Brg. N. Abut.	523+34.87	-42.50'	490.99'	490.99'
A	523+44.87	-42.50'	491.17'	491.19'
B	523+54.87	-42.50'	491.35'	491.37'
C	523+64.87	-42.50'	491.51'	491.53'
D	523+74.87	-42.50'	491.67'	491.67'
☉ Brg. Pier 1	523+80.37	-42.50'	491.74'	491.74'
E	523+90.37	-42.50'	491.88'	491.89'
F	524+00.37	-42.50'	492.00'	492.03'
G	524+10.37	-42.50'	492.11'	492.15'
H	524+20.37	-42.50'	492.21'	492.24'
I	524+30.37	-42.50'	492.30'	492.30'
☉ Brg. Pier 2	524+38.37	-42.50'	492.36'	492.36'
J	524+48.37	-42.50'	492.42'	492.43'
K	524+58.37	-42.50'	492.47'	492.50'
L	524+68.37	-42.50'	492.52'	492.54'
M	524+78.37	-42.50'	492.55'	492.56'
☉ Brg. S. Abut.	524+83.87	-42.50'	492.56'	492.56'
Bk. S. Abut.	524+86.37	-42.50'	492.56'	492.56'

GIRDER 3

Location	Station	Offset from Centerline FAU 8885	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. N. Abut.	523+32.30	-36.17'	491.03'	491.03'
☉ Brg. N. Abut.	523+34.80	-36.17'	491.08'	491.08'
A	523+44.80	-36.17'	491.27'	491.29'
B	523+54.80	-36.17'	491.44'	491.47'
C	523+64.80	-36.17'	491.61'	491.62'
D	523+74.80	-36.17'	491.76'	491.76'
☉ Brg. Pier 1	523+80.30	-36.17'	491.84'	491.84'
E	523+90.30	-36.17'	491.97'	491.99'
F	524+00.30	-36.17'	492.09'	492.13'
G	524+10.30	-36.17'	492.20'	492.24'
H	524+20.30	-36.17'	492.30'	492.33'
I	524+30.30	-36.17'	492.39'	492.40'
☉ Brg. Pier 2	524+38.30	-36.17'	492.45'	492.45'
J	524+48.30	-36.17'	492.52'	492.52'
K	524+58.30	-36.17'	492.57'	492.59'
L	524+68.30	-36.17'	492.61'	492.64'
M	524+78.30	-36.17'	492.64'	492.65'
☉ Brg. S. Abut.	524+83.80	-36.17'	492.65'	492.65'
Bk. S. Abut.	524+86.30	-36.17'	492.66'	492.66'

MODEL: P:\20E3487-2\Design\Design\FAU 8885 SUE N. Entrance Rd over N&W RR 76F88\CADD Sheets\0876F88-007-Top of Slab Elevations.dgn

E-S 2-17-2017



USER NAME = clocher	DESIGNED - CML	REVISED -
	CHECKED - MBH	REVISED -
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PLOT DATE = 8/17/2023	CHECKED - MBH	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TOP OF SLAB ELEVATIONS
STRUCTURE NO. 060-0142 & STRUCTURE NO. 060-143

SHEET 7 OF 28 SHEETS

F.A.U. RTE. 8885	SECTION BI	COUNTY MADISON	TOTAL SHEETS 76	SHEET NO. 49
CONTRACT NO. 76F88				
FED. ROAD DIST. NO. 8 ILLINOIS FED. AID PROJECT				

NORTHBOUND C & P.G.

Location	Station	Offset from Centerline FAU 8885	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. N. Abut.	523+32.26	-33.00'	491.08'	491.08'
C Brg. N. Abut.	523+34.76	-33.00'	491.13'	491.13'
A	523+44.76	-33.00'	491.31'	491.33'
B	523+54.76	-33.00'	491.49'	491.51'
C	523+64.76	-33.00'	491.65'	491.67'
D	523+74.76	-33.00'	491.81'	491.81'
C Brg. Pier 1	523+80.26	-33.00'	491.88'	491.88'
E	523+90.26	-33.00'	492.02'	492.03'
F	524+00.26	-33.00'	492.14'	492.17'
G	524+10.26	-33.00'	492.25'	492.29'
H	524+20.26	-33.00'	492.35'	492.38'
I	524+30.26	-33.00'	492.44'	492.45'
C Brg. Pier 2	524+38.26	-33.00'	492.50'	492.50'
J	524+48.26	-33.00'	492.56'	492.57'
K	524+58.26	-33.00'	492.62'	492.64'
L	524+68.26	-33.00'	492.66'	492.68'
M	524+78.26	-33.00'	492.69'	492.70'
C Brg. S. Abut.	524+83.76	-33.00'	492.70'	492.70'
Bk. S. Abut.	524+86.26	-33.00'	492.70'	492.70'

GIRDER 4

Location	Station	Offset from Centerline FAU 8885	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. N. Abut.	523+32.22	-29.83'	491.03'	491.03'
C Brg. N. Abut.	523+34.72	-29.83'	491.08'	491.08'
A	523+44.72	-29.83'	491.27'	491.28'
B	523+54.72	-29.83'	491.44'	491.47'
C	523+64.72	-29.83'	491.61'	491.62'
D	523+74.72	-29.83'	491.76'	491.76'
C Brg. Pier 1	523+80.22	-29.83'	491.84'	491.84'
E	523+90.22	-29.83'	491.97'	491.98'
F	524+00.22	-29.83'	492.09'	492.12'
G	524+10.22	-29.83'	492.20'	492.24'
H	524+20.22	-29.83'	492.30'	492.33'
I	524+30.22	-29.83'	492.39'	492.40'
C Brg. Pier 2	524+38.22	-29.83'	492.45'	492.45'
J	524+48.22	-29.83'	492.52'	492.52'
K	524+58.22	-29.83'	492.57'	492.59'
L	524+68.22	-29.83'	492.61'	492.64'
M	524+78.22	-29.83'	492.64'	492.65'
C Brg. S. Abut.	524+83.72	-29.83'	492.65'	492.65'
Bk. S. Abut.	524+86.22	-29.83'	492.66'	492.66'

GIRDER 5

Location	Station	Offset from Centerline FAU 8885	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. N. Abut.	523+32.15	-23.50'	490.93'	490.93'
C Brg. N. Abut.	523+34.65	-23.50'	490.98'	490.98'
A	523+44.65	-23.50'	491.17'	491.19'
B	523+54.65	-23.50'	491.34'	491.37'
C	523+64.65	-23.50'	491.51'	491.53'
D	523+74.65	-23.50'	491.66'	491.66'
C Brg. Pier 1	523+80.15	-23.50'	491.74'	491.74'
E	523+90.15	-23.50'	491.87'	491.89'
F	524+00.15	-23.50'	492.00'	492.03'
G	524+10.15	-23.50'	492.11'	492.15'
H	524+20.15	-23.50'	492.21'	492.24'
I	524+30.15	-23.50'	492.29'	492.30'
C Brg. Pier 2	524+38.15	-23.50'	492.35'	492.35'
J	524+48.15	-23.50'	492.42'	492.43'
K	524+58.15	-23.50'	492.47'	492.50'
L	524+68.15	-23.50'	492.52'	492.54'
M	524+78.15	-23.50'	492.55'	492.56'
C Brg. S. Abut.	524+83.65	-23.50'	492.56'	492.56'
Bk. S. Abut.	524+86.15	-23.50'	492.56'	492.56'

GIRDER 6

Location	Station	Offset from Centerline FAU 8885	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. N. Abut.	523+32.07	-17.17'	490.82'	490.82'
C Brg. N. Abut.	523+34.57	-17.17'	490.87'	490.87'
A	523+44.57	-17.17'	491.05'	491.07'
B	523+54.57	-17.17'	491.23'	491.25'
C	523+64.57	-17.17'	491.39'	491.41'
D	523+74.57	-17.17'	491.55'	491.55'
C Brg. Pier 1	523+80.07	-17.17'	491.63'	491.63'
E	523+90.07	-17.17'	491.76'	491.77'
F	524+00.07	-17.17'	491.88'	491.91'
G	524+10.07	-17.17'	491.99'	492.03'
H	524+20.07	-17.17'	492.09'	492.12'
I	524+30.07	-17.17'	492.18'	492.19'
C Brg. Pier 2	524+38.07	-17.17'	492.24'	492.24'
J	524+48.07	-17.17'	492.31'	492.31'
K	524+58.07	-17.17'	492.36'	492.38'
L	524+68.07	-17.17'	492.40'	492.42'
M	524+78.07	-17.17'	492.43'	492.44'
C Brg. S. Abut.	524+83.57	-17.17'	492.44'	492.44'
Bk. S. Abut.	524+86.07	-17.17'	492.45'	492.45'

GIRDER 7

Location	Station	Offset from Centerline FAU 8885	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. N. Abut.	523+31.67	17.17'	490.81'	490.81'
C Brg. N. Abut.	523+34.17	17.17'	490.86'	490.86'
A	523+44.17	17.17'	491.05'	491.06'
B	523+54.17	17.17'	491.22'	491.24'
C	523+64.17	17.17'	491.39'	491.40'
D	523+74.17	17.17'	491.54'	491.54'
C Brg. Pier 1	523+79.67	17.17'	491.62'	491.62'
E	523+89.67	17.17'	491.75'	491.77'
F	523+99.67	17.17'	491.88'	491.90'
G	524+09.67	17.17'	491.99'	492.02'
H	524+19.67	17.17'	492.09'	492.11'
I	524+29.67	17.17'	492.18'	492.18'
C Brg. Pier 2	524+37.67	17.17'	492.24'	492.24'
J	524+47.67	17.17'	492.30'	492.31'
K	524+57.67	17.17'	492.36'	492.38'
L	524+67.67	17.17'	492.40'	492.42'
M	524+77.67	17.17'	492.43'	492.44'
C Brg. S. Abut.	524+83.17	17.17'	492.44'	492.44'
Bk. S. Abut.	524+85.67	17.17'	492.45'	492.45'

GIRDER 8

Location	Station	Offset from Centerline FAU 8885	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. N. Abut.	523+31.59	23.50'	490.92'	490.92'
C Brg. N. Abut.	523+34.09	23.50'	490.97'	490.97'
A	523+44.09	23.50'	491.16'	491.18'
B	523+54.09	23.50'	491.34'	491.36'
C	523+64.09	23.50'	491.50'	491.52'
D	523+74.09	23.50'	491.65'	491.66'
C Brg. Pier 1	523+79.59	23.50'	491.73'	491.73'
E	523+89.59	23.50'	491.87'	491.88'
F	523+99.59	23.50'	491.99'	492.02'
G	524+09.59	23.50'	492.10'	492.14'
H	524+19.59	23.50'	492.20'	492.23'
I	524+29.59	23.50'	492.29'	492.30'
C Brg. Pier 2	524+37.59	23.50'	492.35'	492.35'
J	524+47.59	23.50'	492.42'	492.42'
K	524+57.59	23.50'	492.47'	492.49'
L	524+67.59	23.50'	492.51'	492.54'
M	524+77.59	23.50'	492.54'	492.56'
C Brg. S. Abut.	524+83.09	23.50'	492.56'	492.56'
Bk. S. Abut.	524+85.59	23.50'	492.56'	492.56'

E-S 2-17-2017

MODEL: P:\20E3487-2\Design\Design\FAU 8885 SUE N. Entrance Rd over N&W RR 76F88\CADD Sheets\0876F88-008-Top of Slab Elevations cont.dgn



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PLOT DATE = 8/17/2023	DRAWN - CML	REVISED -
	CHECKED - MBH	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TOP OF SLAB ELEVATIONS
STRUCTURE NO. 060-0142 & STRUCTURE NO. 060-143

SHEET 8 OF 28 SHEETS

FAU. RTE. 8885	SECTION BI	COUNTY MADISON	TOTAL SHEETS 76	SHEET NO. 50
CONTRACT NO. 76F88				
FED. ROAD DIST. NO. 8 ILLINOIS FED. AID PROJECT				

GIRDER 9

Location	Station	Offset from Centerline FAU 8885	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. N. Abut.	523+31.52	29.83'	491.01'	491.01'
☉ Brg. N. Abut.	523+34.02	29.83'	491.06'	491.06'
A	523+44.02	29.83'	491.25'	491.27'
B	523+54.02	29.83'	491.43'	491.45'
C	523+64.02	29.83'	491.59'	491.61'
D	523+74.02	29.83'	491.75'	491.75'
☉ Brg. Pier 1	523+79.52	29.83'	491.83'	491.83'
E	523+89.52	29.83'	491.96'	491.98'
F	523+99.52	29.83'	492.08'	492.12'
G	524+09.52	29.83'	492.20'	492.23'
H	524+19.52	29.83'	492.30'	492.32'
I	524+29.52	29.83'	492.38'	492.39'
☉ Brg. Pier 2	524+37.52	29.83'	492.44'	492.44'
J	524+47.52	29.83'	492.51'	492.52'
K	524+57.52	29.83'	492.57'	492.59'
L	524+67.52	29.83'	492.61'	492.63'
M	524+77.52	29.83'	492.64'	492.65'
☉ Brg. S. Abut.	524+83.02	29.83'	492.65'	492.65'
Bk. S. Abut.	524+85.52	29.83'	492.65'	492.65'

SOUTHBOUND ☉ & P.G.

Location	Station	Offset from Centerline FAU 8885	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. N. Abut.	523+31.48	33.00'	491.06'	491.06'
☉ Brg. N. Abut.	523+33.98	33.00'	491.11'	491.11'
A	523+43.98	33.00'	491.30'	491.32'
B	523+53.98	33.00'	491.48'	491.50'
C	523+63.98	33.00'	491.64'	491.66'
D	523+73.98	33.00'	491.79'	491.80'
☉ Brg. Pier 1	523+79.48	33.00'	491.87'	491.87'
E	523+89.48	33.00'	492.01'	492.02'
F	523+99.48	33.00'	492.13'	492.16'
G	524+09.48	33.00'	492.24'	492.28'
H	524+19.48	33.00'	492.34'	492.37'
I	524+29.48	33.00'	492.43'	492.44'
☉ Brg. Pier 2	524+37.48	33.00'	492.49'	492.49'
J	524+47.48	33.00'	492.56'	492.57'
K	524+57.48	33.00'	492.61'	492.63'
L	524+67.48	33.00'	492.66'	492.68'
M	524+77.48	33.00'	492.69'	492.70'
☉ Brg. S. Abut.	524+82.98	33.00'	492.70'	492.70'
Bk. S. Abut.	524+85.48	33.00'	492.70'	492.70'

GIRDER 10

Location	Station	Offset from Centerline FAU 8885	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. N. Abut.	523+31.44	36.17'	491.01'	491.01'
☉ Brg. N. Abut.	523+33.94	36.17'	491.06'	491.06'
A	523+43.94	36.17'	491.25'	491.27'
B	523+53.94	36.17'	491.43'	491.45'
C	523+63.94	36.17'	491.59'	491.61'
D	523+73.94	36.17'	491.75'	491.75'
☉ Brg. Pier 1	523+79.44	36.17'	491.83'	491.83'
E	523+89.44	36.17'	491.96'	491.97'
F	523+99.44	36.17'	492.08'	492.12'
G	524+09.44	36.17'	492.20'	492.23'
H	524+19.44	36.17'	492.29'	492.32'
I	524+29.44	36.17'	492.38'	492.39'
☉ Brg. Pier 2	524+37.44	36.17'	492.44'	492.44'
J	524+47.44	36.17'	492.51'	492.52'
K	524+57.44	36.17'	492.56'	492.59'
L	524+67.44	36.17'	492.61'	492.63'
M	524+77.44	36.17'	492.64'	492.65'
☉ Brg. S. Abut.	524+82.94	36.17'	492.65'	492.65'
Bk. S. Abut.	524+85.44	36.17'	492.65'	492.65'

GIRDER 11

Location	Station	Offset from Centerline FAU 8885	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. N. Abut.	523+31.37	42.50'	490.92'	490.92'
☉ Brg. N. Abut.	523+33.87	42.50'	490.97'	490.97'
A	523+43.87	42.50'	491.15'	491.17'
B	523+53.87	42.50'	491.33'	491.36'
C	523+63.87	42.50'	491.50'	491.51'
D	523+73.87	42.50'	491.65'	491.65'
☉ Brg. Pier 1	523+79.37	42.50'	491.73'	491.73'
E	523+89.37	42.50'	491.86'	491.88'
F	523+99.37	42.50'	491.99'	492.02'
G	524+09.37	42.50'	492.10'	492.14'
H	524+19.37	42.50'	492.20'	492.23'
I	524+29.37	42.50'	492.29'	492.30'
☉ Brg. Pier 2	524+37.37	42.50'	492.35'	492.35'
J	524+47.37	42.50'	492.41'	492.42'
K	524+57.37	42.50'	492.47'	492.49'
L	524+67.37	42.50'	492.51'	492.54'
M	524+77.37	42.50'	492.54'	492.55'
☉ Brg. S. Abut.	524+82.87	42.50'	492.56'	492.56'
Bk. S. Abut.	524+85.37	42.50'	492.56'	492.56'

GIRDER 12

Location	Station	Offset from Centerline FAU 8885	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. N. Abut.	523+31.29	48.83'	490.80'	490.80'
☉ Brg. N. Abut.	523+33.79	48.83'	490.85'	490.85'
A	523+43.79	48.83'	491.04'	491.06'
B	523+53.79	48.83'	491.22'	491.24'
C	523+63.79	48.83'	491.38'	491.40'
D	523+73.79	48.83'	491.54'	491.54'
☉ Brg. Pier 1	523+79.29	48.83'	491.61'	491.61'
E	523+89.29	48.83'	491.75'	491.76'
F	523+99.29	48.83'	491.87'	491.90'
G	524+09.29	48.83'	491.98'	492.02'
H	524+19.29	48.83'	492.08'	492.11'
I	524+29.29	48.83'	492.17'	492.18'
☉ Brg. Pier 2	524+37.29	48.83'	492.23'	492.23'
J	524+47.29	48.83'	492.30'	492.31'
K	524+57.29	48.83'	492.36'	492.37'
L	524+67.29	48.83'	492.40'	492.42'
M	524+77.29	48.83'	492.43'	492.44'
☉ Brg. S. Abut.	524+82.79	48.83'	492.44'	492.44'
Bk. S. Abut.	524+85.29	48.83'	492.45'	492.45'

E-S 2-17-2017

MODEL: P:\20E3487-2\Design\Design\FAU 8885 SUE N. Entrance Rd over N&W RR 76F88\CADD Sheets\D876F88-009-Top of Slab Elevations cont.dgn



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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TOP OF SLAB ELEVATIONS
STRUCTURE NO. 060-0142 & STRUCTURE NO. 060-143**

SHEET 9 OF 28 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8885	BI	MADISON	76	51
CONTRACT NO. 76F88				
FED. ROAD DIST. NO. 8		ILLINOIS		FED. AID PROJECT

NORTH APPROACH PAVEMENT
EAST CURB LINE

Location	Station	Offset	Theoretical Grade Elevations
End of N. Appr. Pvmt.	523+03.46	-49.58'	490.19'
A1	523+13.46	-49.58'	490.41'
A2	523+23.46	-49.58'	490.63'
Bk. N. Joint	523+33.46	-49.58'	490.83'

NORTH APPROACH PAVEMENT
EAST LANE LINE

Location	Station	Offset	Theoretical Grade Elevations
End of N. Appr. Pvmt.	523+03.40	-45.00'	490.28'
A1	523+13.40	-45.00'	490.50'
A2	523+23.40	-45.00'	490.72'
Bk. N. Joint	523+33.40	-45.00'	490.92'

NORTH APPROACH PAVEMENT
NORTHBOUND PROFILE GRADE LINE

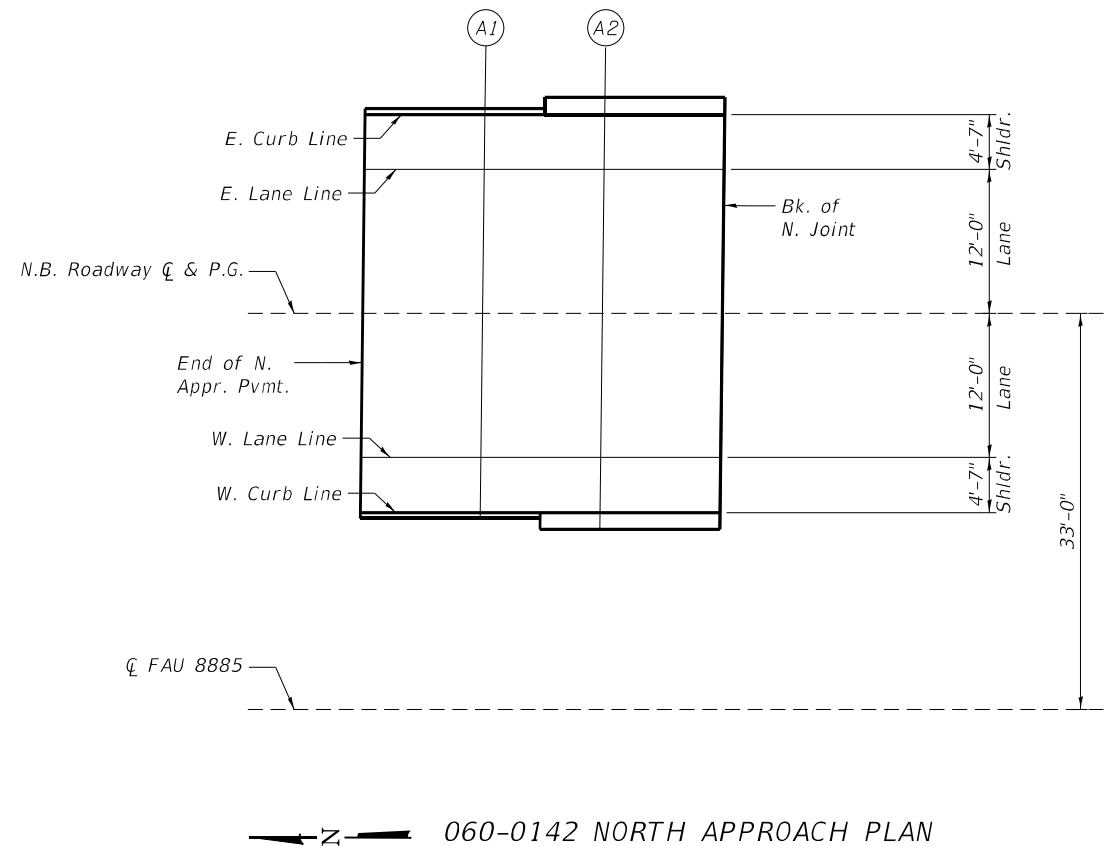
Location	Station	Offset	Theoretical Grade Elevations
End of N. Appr. Pvmt.	523+03.26	-33.00'	490.46'
A1	523+13.26	-33.00'	490.68'
A2	523+23.26	-33.00'	490.89'
Bk. N. Joint	523+33.26	-33.00'	491.10'

NORTH APPROACH PAVEMENT
WEST LANE LINE

Location	Station	Offset	Theoretical Grade Elevations
End of N. Appr. Pvmt.	523+03.12	-21.00'	490.27'
A1	523+13.12	-21.00'	490.50'
A2	523+23.12	-21.00'	490.71'
Bk. N. Joint	523+33.12	-21.00'	490.91'

NORTH APPROACH PAVEMENT
WEST CURB LINE

Location	Station	Offset	Theoretical Grade Elevations
End of N. Appr. Pvmt.	523+03.06	-16.42'	490.18'
A1	523+13.06	-16.42'	490.41'
A2	523+23.06	-16.42'	490.62'
Bk. N. Joint	523+33.06	-16.42'	490.82'



E-AS 2-17-2017

MODEL: P:\20E3487-2\Design\Design\FAU 8885 SUE N. Entrance Rd over N&W RR 76F88\CADD Sheets\0876F88-10-NB Top of N App Slab Elevations.dgn



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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TOP OF NORTH APPROACH SLAB ELEVATIONS
STRUCTURE NO. 060-0142

SHEET 10 OF 28 SHEETS

F.A.U. RTE. 8885	SECTION BI	COUNTY MADISON	TOTAL SHEETS 76	SHEET NO. 52
CONTRACT NO. 76F88				
FED. ROAD DIST. NO. 8 ILLINOIS FED. AID PROJECT				

SOUTH APPROACH PAVEMENT
EAST CURB LINE

Location	Station	Offset	Theoretical Grade Elevations
Bk. S. Joint	524+85.46	-49.58'	492.43'
A3	524+95.46	-49.58'	492.44'
A4	525+05.46	-49.58'	492.44'
End of S. Appr. Pvmt.	525+15.46	-49.58'	492.42'

SOUTH APPROACH PAVEMENT
EAST LANE LINE

Location	Station	Offset	Theoretical Grade Elevations
Bk. S. Joint	524+85.40	-45.00'	492.52'
A3	524+95.40	-45.00'	492.53'
A4	525+05.40	-45.00'	492.53'
End of S. Appr. Pvmt.	525+15.40	-45.00'	492.52'

SOUTH APPROACH PAVEMENT
NORTHBOUND PROFILE GRADE LINE

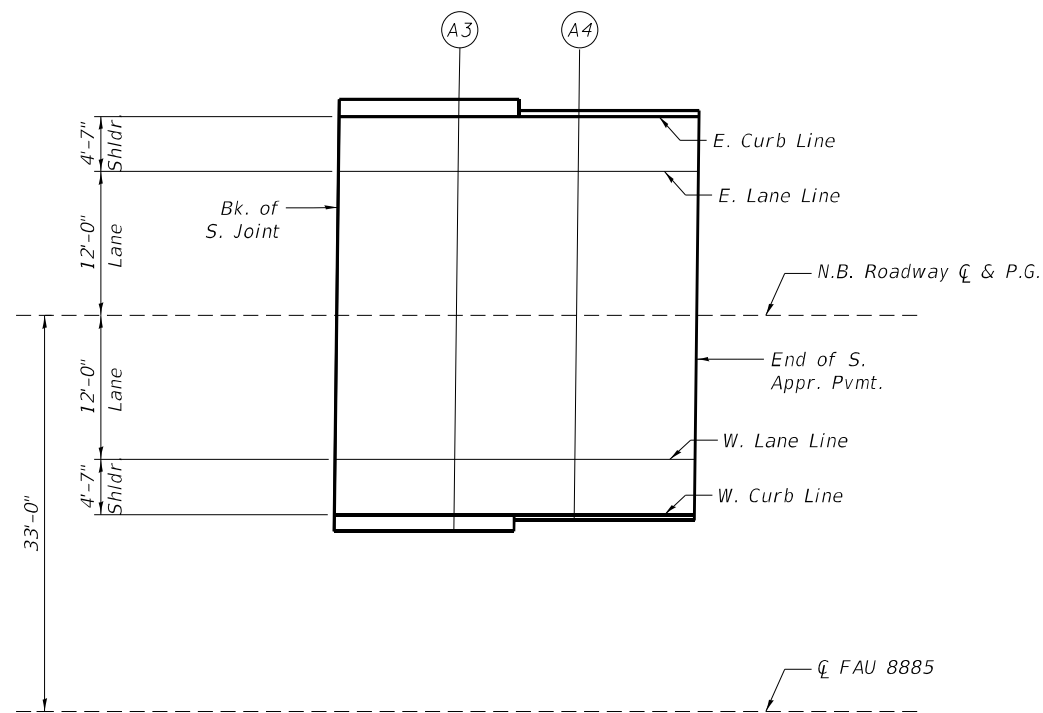
Location	Station	Offset	Theoretical Grade Elevations
Bk. S. Joint	524+85.26	-33.00'	492.70'
A3	524+95.26	-33.00'	492.71'
A4	525+05.26	-33.00'	492.71'
End of S. Appr. Pvmt.	525+15.26	-33.00'	492.70'

SOUTH APPROACH PAVEMENT
WEST LANE LINE

Location	Station	Offset	Theoretical Grade Elevations
Bk. S. Joint	524+85.12	-21.00'	492.52'
A3	524+95.12	-21.00'	492.53'
A4	525+05.12	-21.00'	492.53'
End of S. Appr. Pvmt.	525+15.12	-21.00'	492.52'

SOUTH APPROACH PAVEMENT
WEST CURB LINE

Location	Station	Offset	Theoretical Grade Elevations
Bk. S. Joint	524+85.06	-16.42'	492.43'
A3	524+95.06	-16.42'	492.44'
A4	525+05.06	-16.42'	492.44'
End of S. Appr. Pvmt.	525+15.06	-16.42'	492.42'



060-0142 SOUTH APPROACH PLAN

MODEL: P:\20E3487-2\Design\Design\FAU 8885 SUE N. Entrance Rd over N&W RR 76F88\CADD Sheets\0876F88-011-NB Top of S App Slab Elevations.dgn
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TOP OF SOUTH APPROACH SLAB ELEVATIONS
STRUCTURE NO. 060-0142

SHEET 11 OF 28 SHEETS

F.A.U. RTE. 8885	SECTION BI	COUNTY MADISON	TOTAL SHEETS 76	SHEET NO. 53
FED. ROAD DIST. NO. 8 ILLINOIS FED. AID PROJECT				

CONTRACT NO. 76F88

NORTH APPROACH PAVEMENT
WEST CURB LINE

Location	Station	Offset	Theoretical Grade Elevations
End of N. Appr. Pvmt.	523+02.28	49.58'	490.16'
A1	523+12.28	49.58'	490.39'
A2	523+22.28	49.58'	490.60'
Bk. N. Joint	523+32.28	49.58'	490.81'

NORTH APPROACH PAVEMENT
WEST LANE LINE

Location	Station	Offset	Theoretical Grade Elevations
End of N. Appr. Pvmt.	523+02.34	45.00'	490.25'
A1	523+12.34	45.00'	490.48'
A2	523+22.34	45.00'	490.70'
Bk. N. Joint	523+32.34	45.00'	490.90'

NORTH APPROACH PAVEMENT
SOUTHBOUND PROFILE GRADE LINE

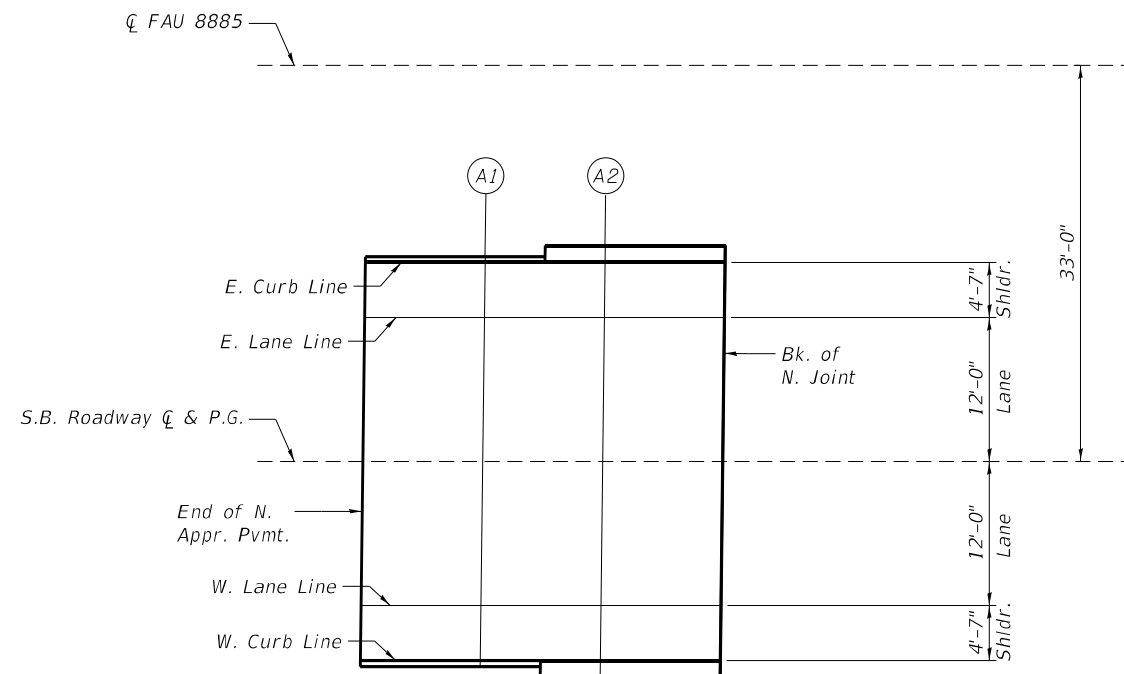
Location	Station	Offset	Theoretical Grade Elevations
End of N. Appr. Pvmt.	523+02.48	33.00'	490.44'
A1	523+12.48	33.00'	490.66'
A2	523+22.48	33.00'	490.88'
Bk. N. Joint	523+32.48	33.00'	491.08'

NORTH APPROACH PAVEMENT
EAST LANE LINE

Location	Station	Offset	Theoretical Grade Elevations
End of N. Appr. Pvmt.	523+02.62	21.00'	490.26'
A1	523+12.62	21.00'	490.49'
A2	523+22.62	21.00'	490.70'
Bk. N. Joint	523+32.62	21.00'	490.90'

NORTH APPROACH PAVEMENT
EAST CURB LINE

Location	Station	Offset	Theoretical Grade Elevations
End of N. Appr. Pvmt.	523+02.68	16.42'	490.17'
A1	523+12.68	16.42'	490.40'
A2	523+22.68	16.42'	490.61'
Bk. N. Joint	523+32.68	16.42'	490.81'



060-0143 NORTH APPROACH PLAN

E-AS 2-17-2017

MODEL: P:\20E3487-2\Design\Design\FAU_8885_SJUE_N_Entrance_Rd_Over_N&W_RR_76F88\CADD_Sheets\087688-012-58_Top_of_N_App_Slab_Elevations.dgn



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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TOP OF NORTH APPROACH SLAB ELEVATIONS
STRUCTURE NO. 060-0143

SHEET 12 OF 28 SHEETS

F.A.U. RTE. 8885	SECTION BI	COUNTY MADISON	TOTAL SHEETS 76	SHEET NO. 54
CONTRACT NO. 76F88				
FED. ROAD DIST. NO. 8 ILLINOIS FED. AID PROJECT				

SOUTH APPROACH PAVEMENT
EAST CURB LINE

Location	Station	Offset	Theoretical Grade Elevations
Bk. S. Joint	524+84.28	49.58'	492.43'
A3	524+94.28	49.58'	492.44'
A4	525+04.28	49.58'	492.44'
End of S. Appr. Pvmt.	525+14.28	49.58'	492.43'

SOUTH APPROACH PAVEMENT
EAST LANE LINE

Location	Station	Offset	Theoretical Grade Elevations
Bk. S. Joint	524+84.34	45.00'	492.52'
A3	524+94.34	45.00'	492.53'
A4	525+04.34	45.00'	492.53'
End of S. Appr. Pvmt.	525+14.34	45.00'	492.52'

SOUTH APPROACH PAVEMENT
SOUTHBOUND PROFILE GRADE LINE

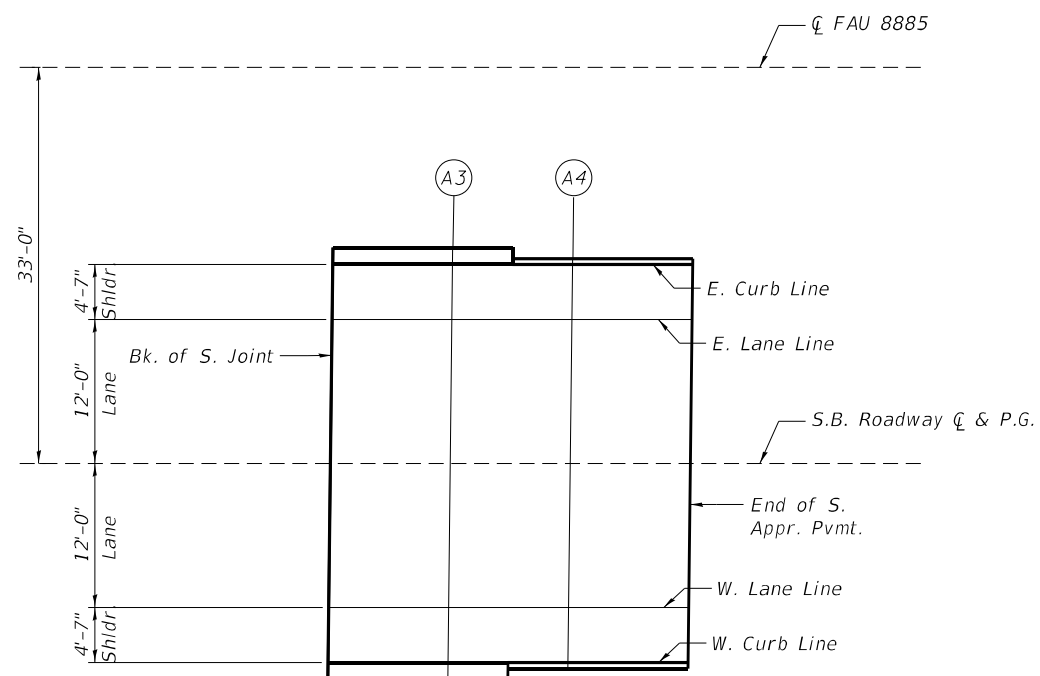
Location	Station	Offset	Theoretical Grade Elevations
Bk. S. Joint	524+84.48	33.00'	492.70'
A3	524+94.48	33.00'	492.71'
A4	525+04.48	33.00'	492.71'
End of S. Appr. Pvmt.	525+14.48	33.00'	492.70'

SOUTH APPROACH PAVEMENT
WEST LANE LINE

Location	Station	Offset	Theoretical Grade Elevations
Bk. S. Joint	524+84.62	21.00'	492.52'
A3	524+94.62	21.00'	492.53'
A4	525+04.62	21.00'	492.53'
End of S. Appr. Pvmt.	525+14.62	21.00'	492.52'

SOUTH APPROACH PAVEMENT
WEST CURB LINE

Location	Station	Offset	Theoretical Grade Elevations
Bk. S. Joint	524+84.68	16.42'	492.43'
A3	524+94.68	16.42'	492.44'
A4	525+04.68	16.42'	492.44'
End of S. Appr. Pvmt.	525+14.68	16.42'	492.42'



060-0143 SOUTH APPROACH PLAN

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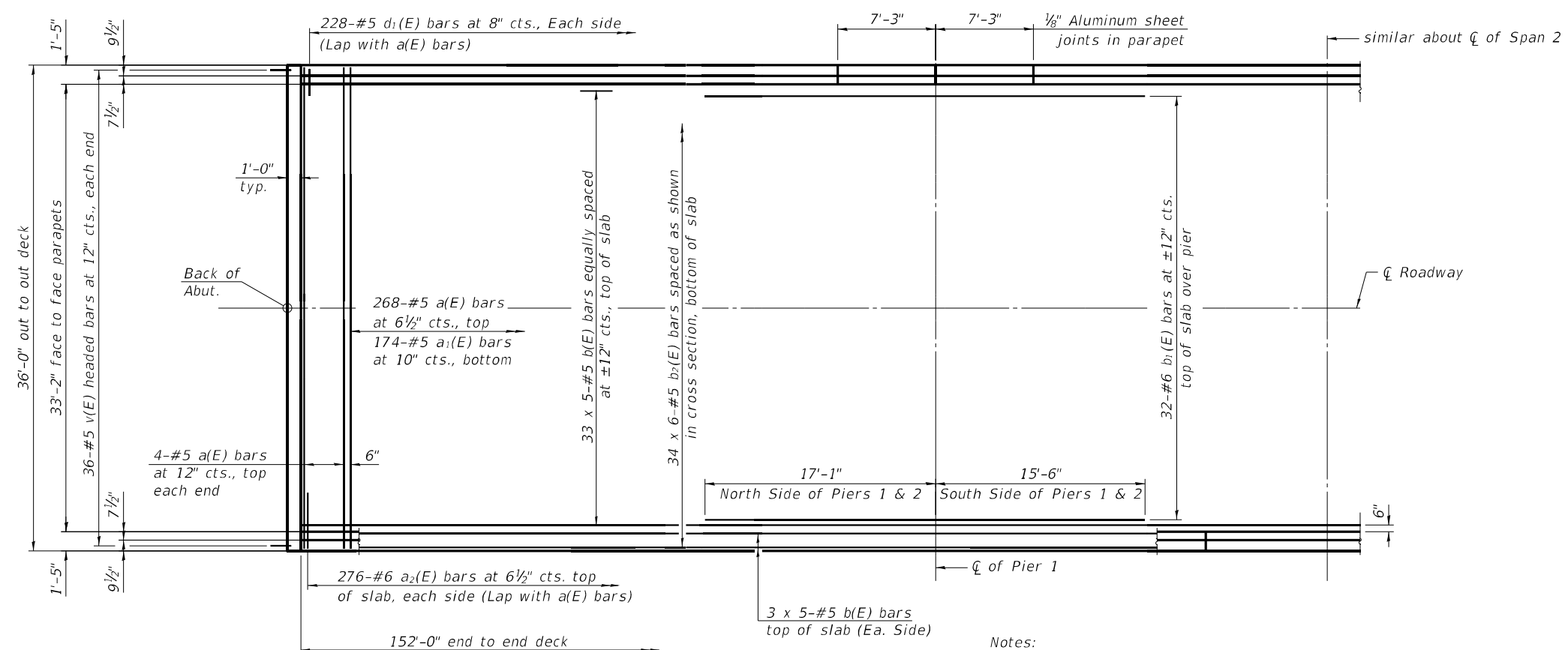
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TOP OF SOUTH APPROACH SLAB ELEVATIONS
STRUCTURE NO. 060-0143

SHEET 13 OF 28 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8885	BI	MADISON	76	55
CONTRACT NO. 76F88				
FED. ROAD DIST. NO. 8 ILLINOIS FED. AID PROJECT				

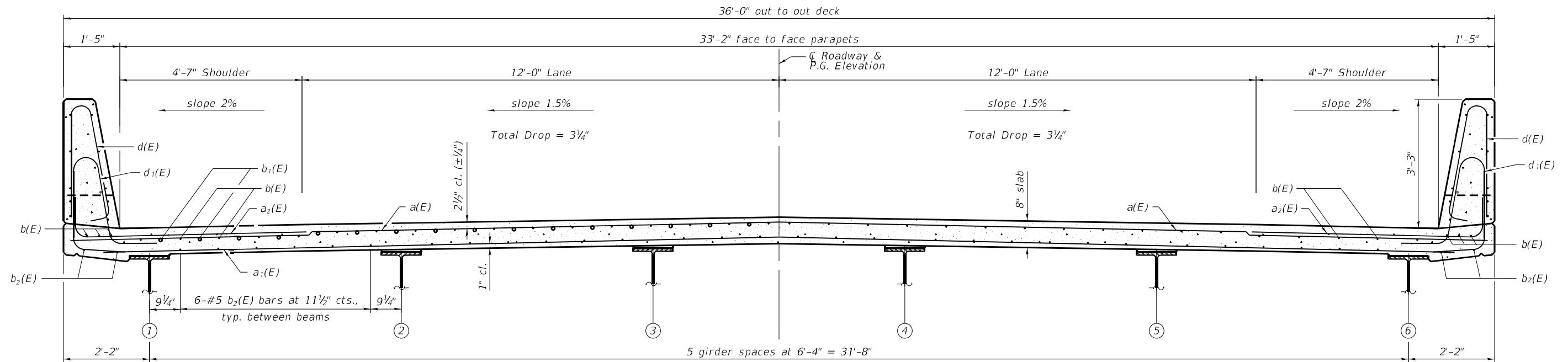
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HALF PLAN
(SN 060-0142 Shown)
(SN 060-0143 Similar)

Notes:
See sheet 14 of 28 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.

MINIMUM BAR LAP
#5 bar = 3'-6"
#6 bar = 4'-10"



CROSS SECTION
(Looking South SN 060-0142)
(SN 060-0143 Similar)

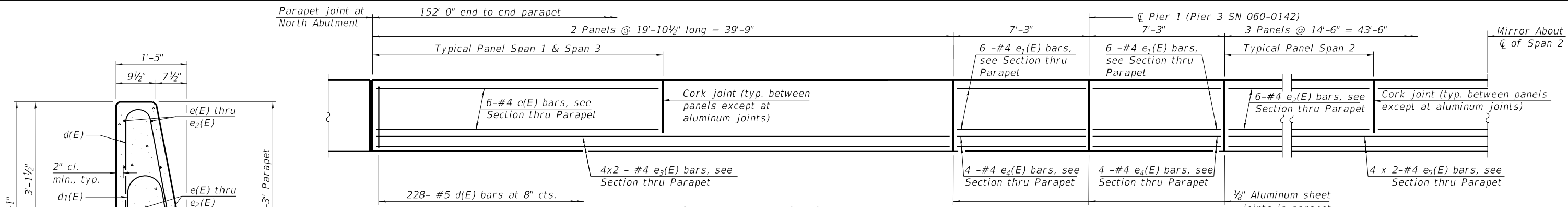
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

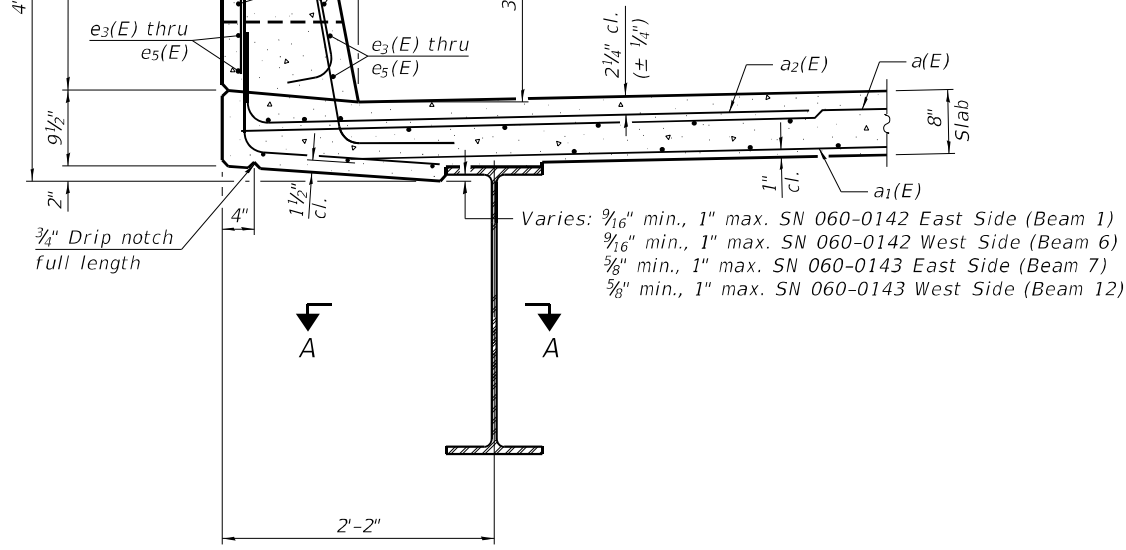
SUPERSTRUCTURE
STRUCTURE NO. 060-0142 & STRUCTURE NO. 060-0143

F.A.U. RTE. 8885	SECTION BI	COUNTY MADISON	TOTAL SHEETS 76	SHEET NO. 56
CONTRACT NO. 76F88				
FED. ROAD DIST. NO. 8 ILLINOIS FED. AID PROJECT				

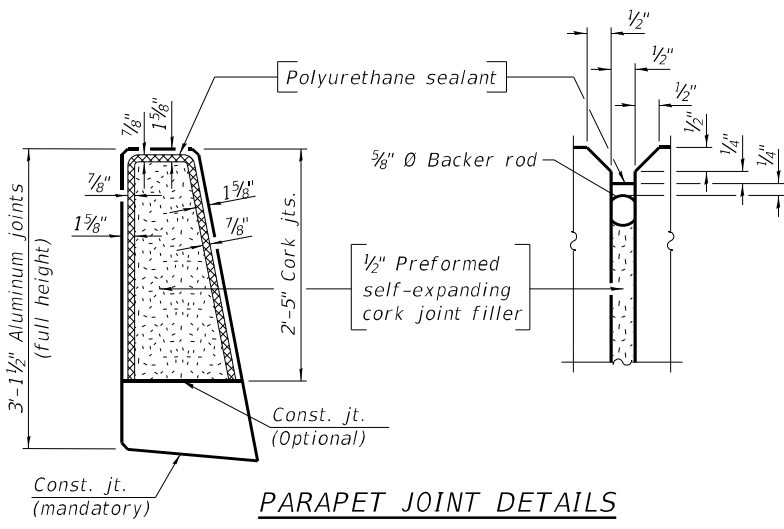


INSIDE ELEVATION OF PARAPET

SN 060-0142 shown
(SN 060-0143 similar)



SECTION THRU PARAPET



PARAPET JOINT DETAILS

MINIMUM BAR LAP

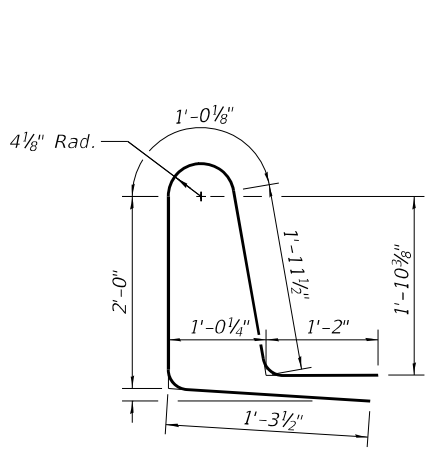
#4 bar = 2'-5"
#5 bar = 3'-6"

SUPERSTRUCTURE BILL OF MATERIAL (SN 060-0142)

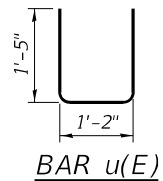
Bar	No.	Size	Length	Shape
a(E)	276	#5	35'-8"	—
a1(E)	174	#5	34'-0"	—
a2(E)	552	#6	8'-4"	└
b(E)	195	#5	33'-2"	—
b1(E)	64	#6	32'-7"	—
b2(E)	204	#5	28'-3"	—
d(E)	456	#5	6'-5"	└
d1(E)	456	#5	7'-5"	└
e(E)	48	#4	19'-7"	—
e1(E)	48	#4	6'-11"	—
e2(E)	36	#4	14'-2"	—
e3(E)	32	#4	20'-11"	—
e4(E)	32	#4	7'-8"	—
e5(E)	16	#4	22'-10"	—
m(E)	12	#6	33'-4"	—
m1(E)	16	#6	1'-0"	—
m2(E)	40	#6	6'-0"	—
m3(E)	4	#4	33'-4"	—
s(E)	58	#5	9'-0"	└
s1(E)	68	#5	8'-8"	└
u(E)	68	#5	4'-0"	└
v(E)	68	#5	3'-1"	└
Reinforcement Bars, Epoxy Coated		Lbs.	50,650	
Concrete Superstructure		Cu. Yds.	204.6	

SUPERSTRUCTURE BILL OF MATERIAL (SN 060-0143)

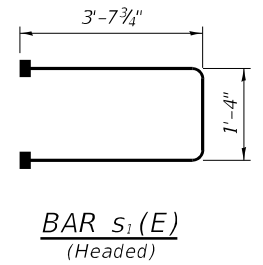
Bar	No.	Size	Length	Shape
a(E)	276	#5	35'-8"	—
a1(E)	174	#5	34'-0"	—
a2(E)	552	#6	8'-4"	└
b(E)	195	#5	33'-2"	—
b1(E)	64	#6	32'-7"	—
b2(E)	204	#5	28'-3"	—
d(E)	456	#5	6'-5"	└
d1(E)	456	#5	7'-5"	└
e(E)	48	#4	19'-7"	—
e1(E)	48	#4	6'-11"	—
e2(E)	36	#4	14'-2"	—
e3(E)	32	#4	20'-11"	—
e4(E)	32	#4	7'-8"	—
e5(E)	16	#4	22'-10"	—
m(E)	12	#6	33'-4"	—
m1(E)	16	#6	1'-0"	—
m2(E)	40	#6	6'-0"	—
m3(E)	4	#4	33'-4"	—
s(E)	58	#5	9'-0"	└
s1(E)	68	#5	8'-8"	└
u(E)	68	#5	4'-0"	└
v(E)	68	#5	3'-1"	└
Reinforcement Bars, Epoxy Coated		Lbs.	50,650	
Concrete Superstructure		Cu. Yds.	204.6	



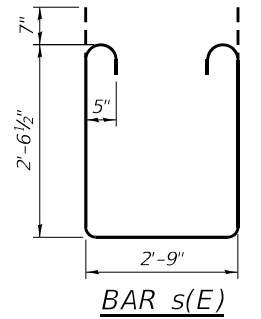
BAR d1(E)



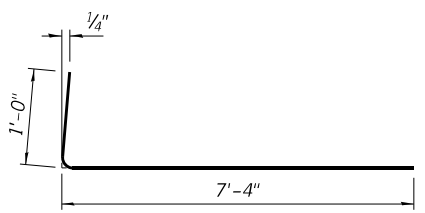
BAR u(E)



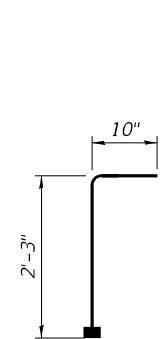
BAR s1(E) (Headed)



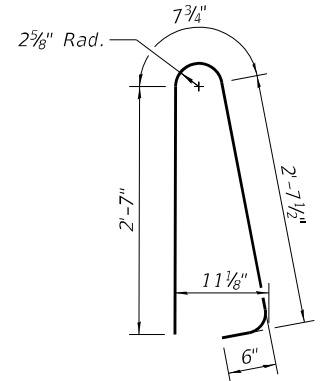
BAR s(E)



BAR a2(E)



BAR v(E) (Headed)



BAR d(E)

Notes:
The 1/8" Aluminum sheet shall be ASTM B 209 alloy 3003-H14 and coated to minimize reaction with wet concrete. Cost included with Concrete Superstructure.
The Polyurethane Sealant shall be according to Article 1050.04 of the Std. Spec. and the color shall be gray.
Headed bars shall conform to ASTM A970 with threaded attachment; Class HA; and reinforcement bars conforming to ASTM A706. Cost included with Reinforcement Bars, Epoxy Coated
Bars indicated thus 1 x 2-#4 etc. indicates 1 line of bars with 2 lengths per line.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUPERSTRUCTURE DETAILS
STRUCTURE NO. 060-0142 & 060-0143

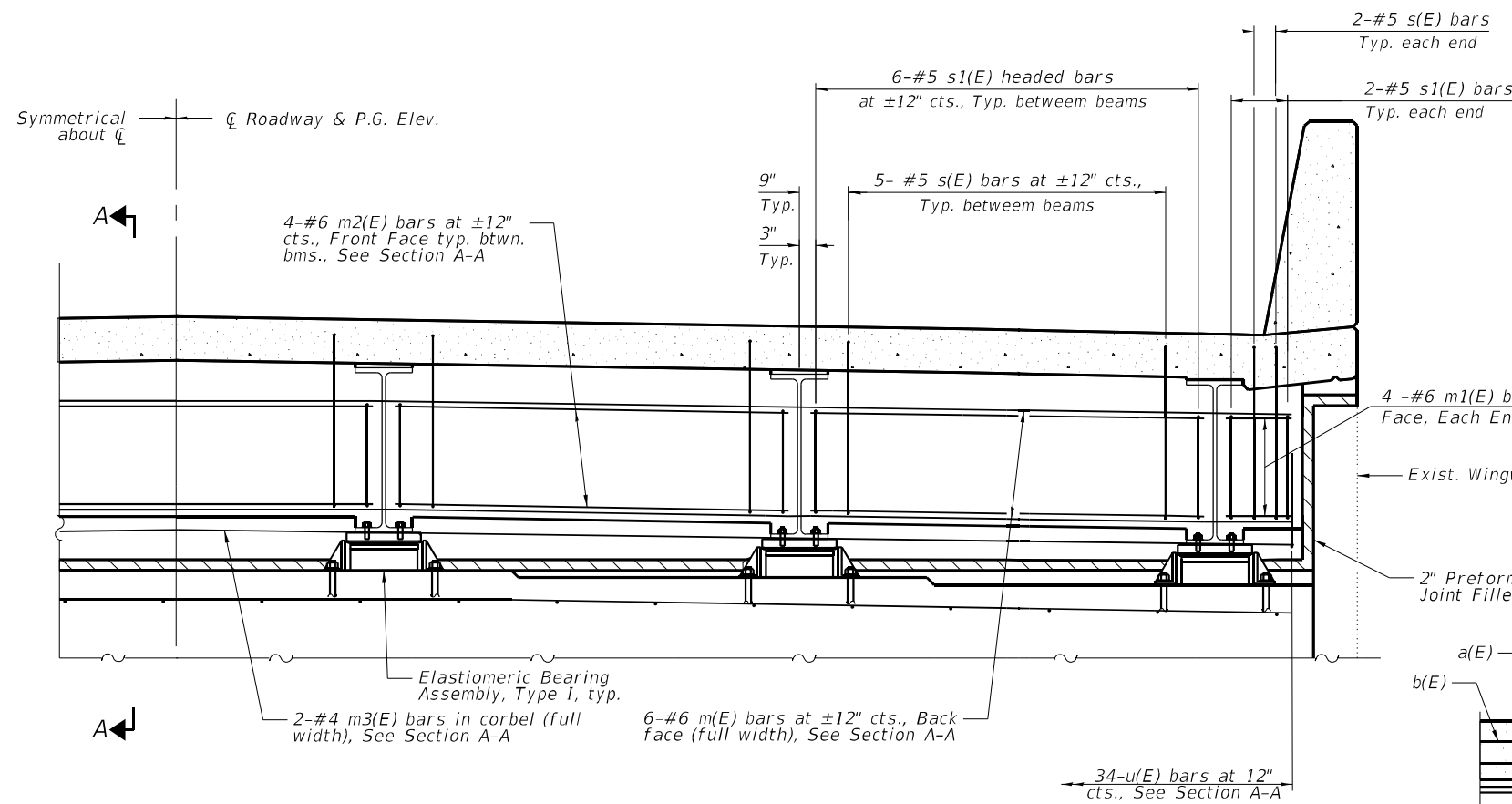
SHEET 15 OF 28 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8885	BI	MADISON	76	57
CONTRACT NO. 76F88				
FED. ROAD DIST. NO. 8 ILLINOIS FED. AID PROJECT				

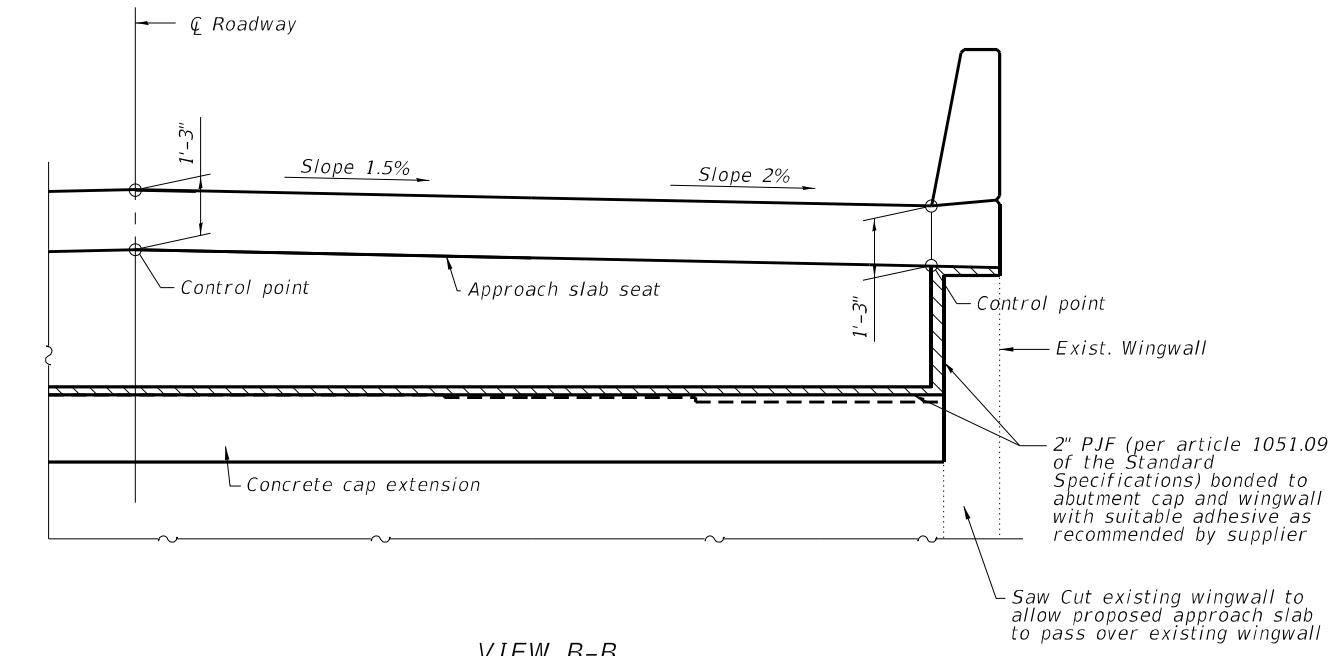
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8/17/2023 5:31:44 PM

BA BENTON & ASSOCIATES, INC.
1910 W. Lafayette Ave., Suite 100, Chicago, IL 60620
773.264.4600 (24) 240-0488 Fax
www.bentonandassociates.com
Registration No. 36-000002

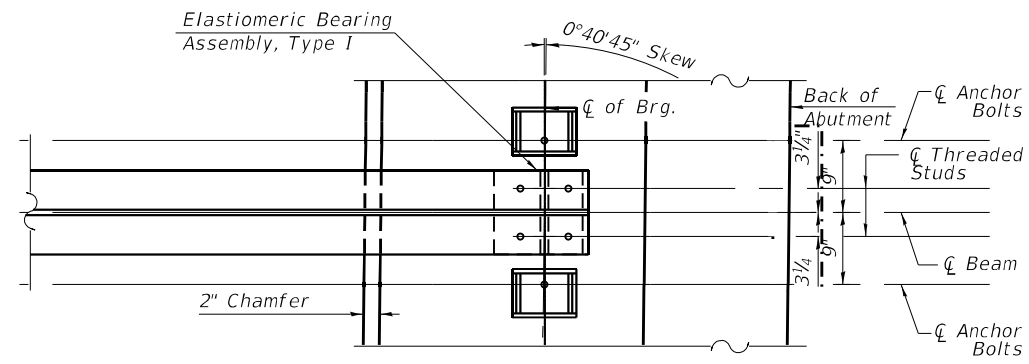
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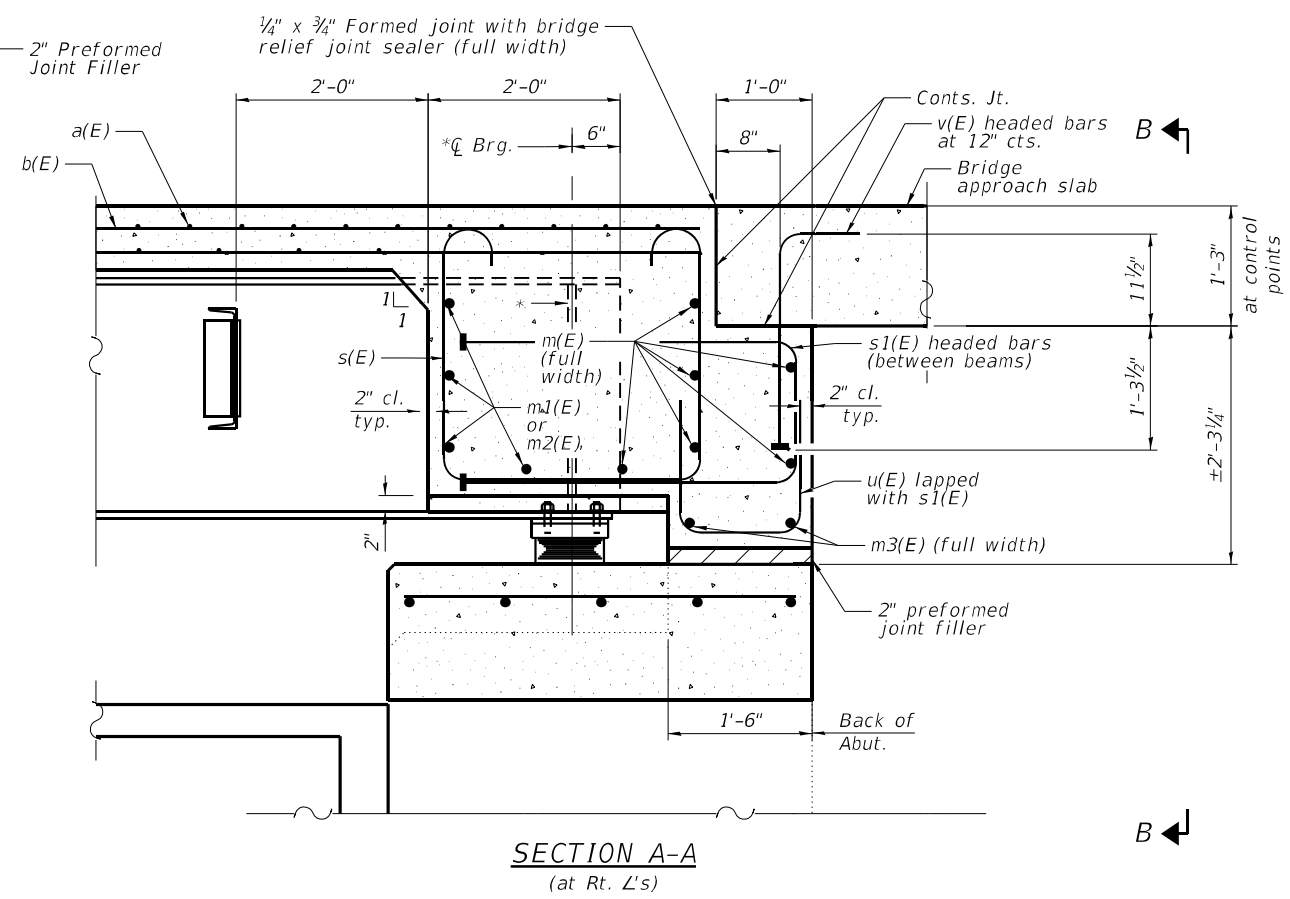
DIAPHRAGM AT ABUTMENT



VIEW B-B



PLAN AT ABUTMENT
(Showing bottom flange of beam)



SECTION A-A
(at Rt. L's)

Notes:
 See sheet 15 of 28 for Superstructure Details and Bill of Material.
 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.
 The s(E) and s1(E) bars shall be placed parallel to the beams. Spacing for these bars shall be at right angles to the beams.
 The approach slab seat shall have a constant slope determined from the control points shown.

* Bearing stiffener placed at right angles to beam web (1" thick). See sheet 19 of 28 for plate details

MODEL: P:\20E3487-2\Design\Design\FAU 8885 SUE N. Entrance Rd over N&W RR 76F88\CADD Sheets\0876F88-016-Diaphragm Details.dgn
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 8/25/2023 10:16:52 AM

BA BENTON & ASSOCIATES, INC.
 1910 W. Lafayette Ave., Joliet, IL 60431
 (815) 266-4400 FAX (815) 266-4400
 Website: www.bentonandassociates.com
 Registration No. 06-00052

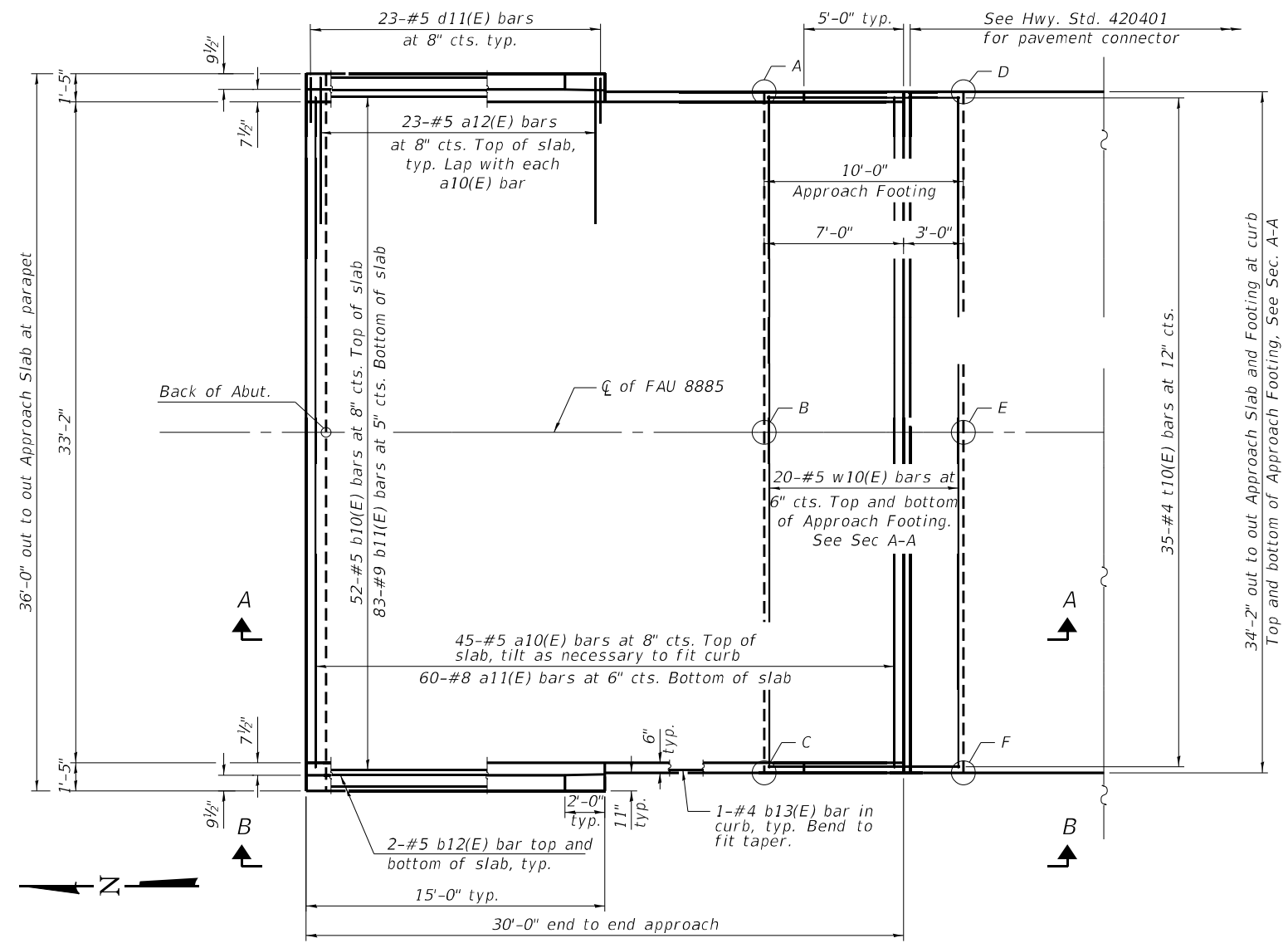
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DIAPHRAGM DETAILS
STRUCTURE NO. 060-0142 & STRUCTURE NO. 060-0143

SHEET 16 OF 28 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8885	BI	MADISON	76	58
CONTRACT NO. 76F88				
FED. ROAD DIST. NO. 8 ILLINOIS FED. AID PROJECT				



PLAN

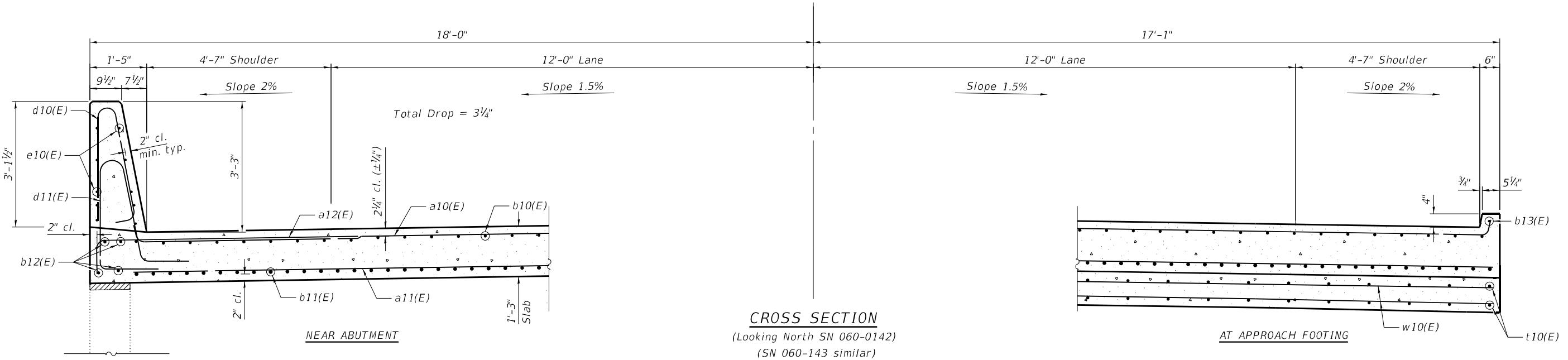
SN 060-0142 South approach shown; SN 060-0142 north approach similar by 180° rotation (SN 060-143 similar)

**SN 060-0142
TOP AND BOTTOM ELEVATIONS
FOR APPROACH FOOTING**

North Approach			South Approach		
Point/Location	Top	Bottom	Point/Location	Top	Bottom
A / SE	489.06'	488.25'	A / NE	491.17'	490.34'
B / S	489.36'	488.53'	B / N	491.46'	490.62'
C / SW	489.08'	488.25'	C / NW	491.18'	490.34'
D / NE	488.86'	488.03'	D / SE	491.16'	490.32'
E / N	489.14'	488.30'	E / S	491.44'	490.61'
F / NW	488.85'	488.02'	F / SW	491.16'	490.32'

**SN 060-0143
TOP AND BOTTOM ELEVATIONS
FOR APPROACH FOOTING**

North Approach			South Approach		
Point/Location	Top	Bottom	Point/Location	Top	Bottom
A / SE	489.07'	488.24'	A / NE	491.18'	490.34'
B / S	489.35'	488.51'	B / N	491.46'	490.62'
C / SW	489.06'	488.23'	C / NW	491.18'	490.34'
D / NE	488.84'	488.01'	D / SE	491.16'	490.33'
E / N	489.12'	488.28'	E / S	491.44'	490.61'
F / NW	488.83'	488.00'	F / SW	491.16'	490.33'



CROSS SECTION

(Looking North SN 060-0142)
(SN 060-143 similar)

AT APPROACH FOOTING

(Sheet 1 of 2)

MODEL: P:\20E3487-2\Design\Design\FAU 8885 SUE N. Entrance Rd over N&W RR 76F88\CADD Sheets\087688-017-Approach Pavement Plan & Section.dgn



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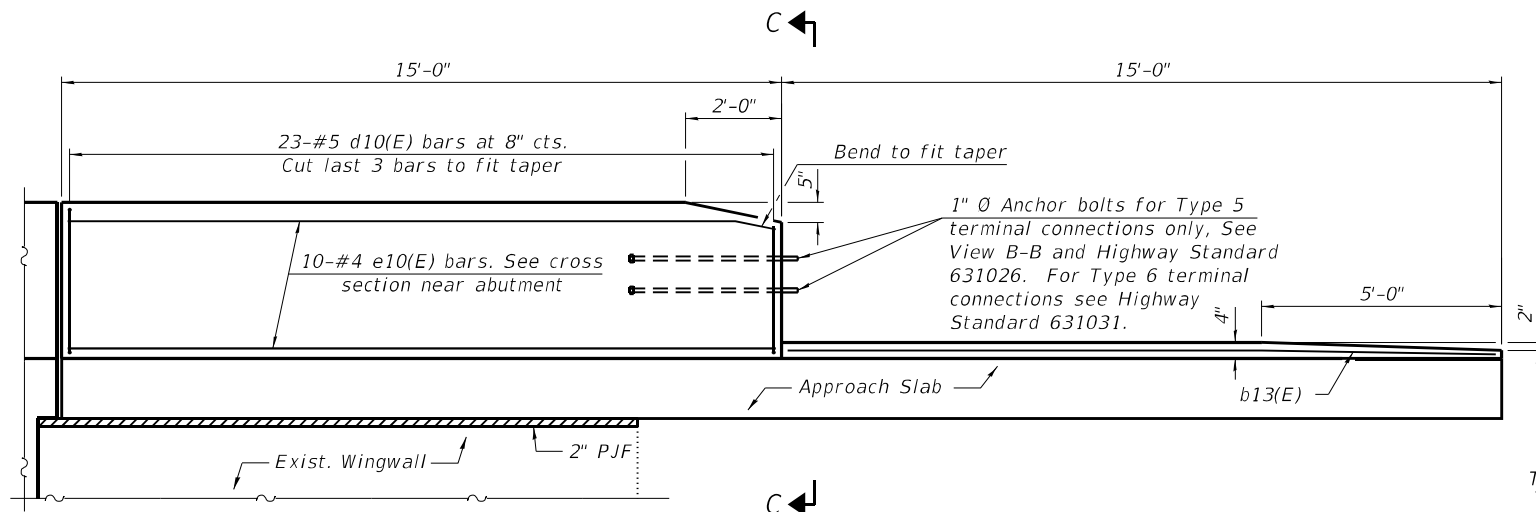
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**BRIDGE APPROACH SLAB DETAILS
STRUCTURE NO. 060-0142 & STRUCTURE NO. 060-0143**

SHEET 17 OF 28 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8885	BI	MADISON	76	59
CONTRACT NO. 76F88				

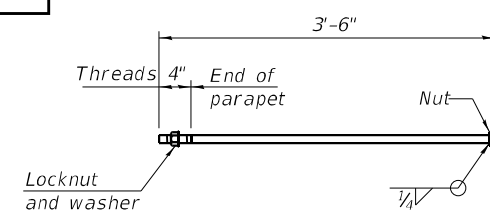
FED. ROAD DIST. NO. 8 ILLINOIS FED. AID PROJECT



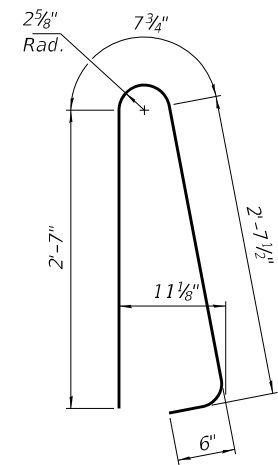
SECTION B-B (OUTSIDE ELEVATION OF PARAPET AND CURB)

Notes:

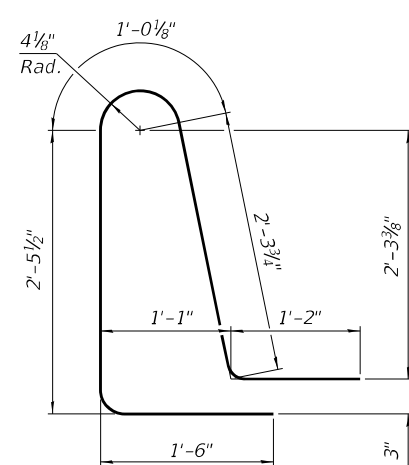
The joint opening shall be adjusted for temperature per Article 520.04 of the Standard Specifications. However, since this detail is for jointless structures, the length of bridge used to calculate the adjustment shall be equal to half the total bridge length plus the length of the bridge approach slab.
 Parapet concrete shall be paid for as Concrete Superstructure.
 Approach slab shall be paid for as Concrete Superstructure (Approach Slab).
 Approach footing concrete shall be paid for as Concrete Structures.
 The approach footing maximum applied service bearing pressure (Qmax) = 2.0 ksf.
 Cost of excavation for approach footing included with Concrete Structures.
 For Granular Backfill for Structures and drainage treatment details, see sheet 2 of 28.



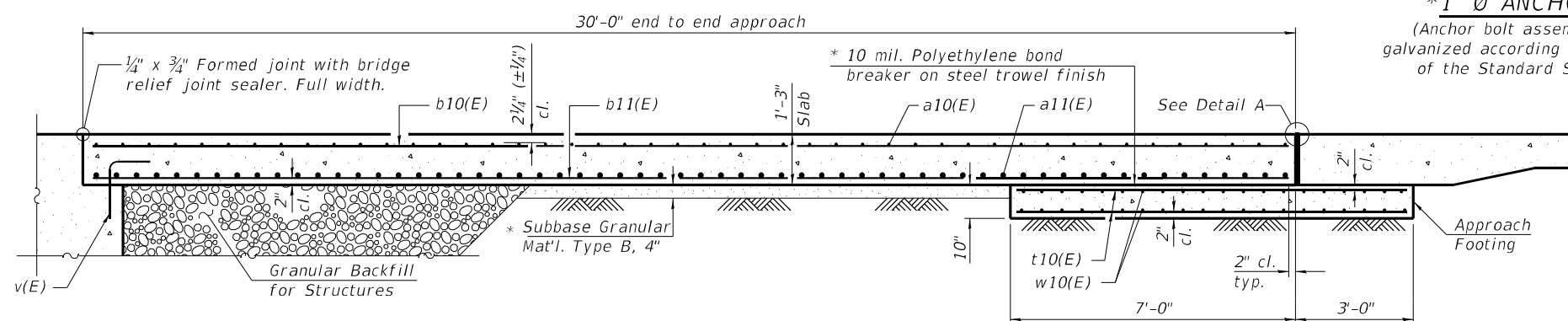
*1" Ø ANCHOR BOLT
 (Anchor bolt assemblies shall be galvanized according to Article 1006.09 of the Standard Specifications)



BAR d10(E)



BAR d11(E)



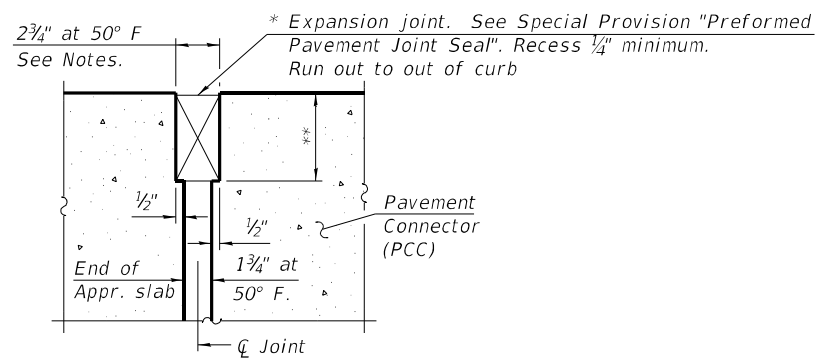
SECTION A-A

SN 060-0142
 TWO APPROACHES
 BILL OF MATERIAL

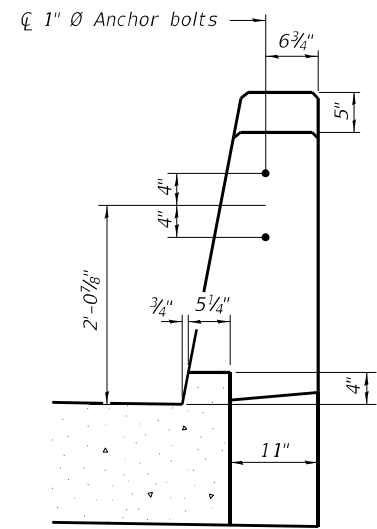
Bar	No.	Size	Length	Shape
a10(E)	90	#5	34'-5"	U
a11(E)	120	#8	33'-6"	U
a12(E)	92	#5	7'-4"	U
b10(E)	104	#5	29'-8"	U
b11(E)	166	#9	29'-8"	U
b12(E)	16	#5	14'-8"	U
b13(E)	4	#4	14'-8"	U
d10(E)	92	#5	6'-5"	U
d11(E)	92	#5	8'-6"	U
e10(E)	40	#4	14'-8"	U
t10(E)	70	#4	9'-8"	U
w10(E)	80	#5	33'-10"	U
Concrete Superstructure		Cu. Yd.	15.6	
Concrete Superstructure (Approach Slab)		Cu. Yd.	104.4	
Concrete Structures		Cu. Yd.	10.6	
Reinforcement Bars, Epoxy Coated		Pound	40,000	

SN 060-0143
 TWO APPROACHES
 BILL OF MATERIAL

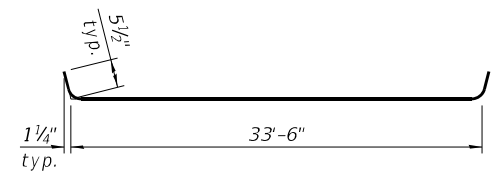
Bar	No.	Size	Length	Shape
a10(E)	90	#5	34'-5"	U
a11(E)	120	#8	33'-6"	U
a12(E)	92	#5	7'-4"	U
b10(E)	104	#5	29'-8"	U
b11(E)	166	#9	29'-8"	U
b12(E)	16	#5	14'-8"	U
b13(E)	4	#4	14'-8"	U
d10(E)	92	#5	6'-5"	U
d11(E)	92	#5	8'-6"	U
e10(E)	40	#4	14'-8"	U
t10(E)	70	#4	9'-8"	U
w10(E)	80	#5	33'-10"	U
Concrete Superstructure		Cu. Yd.	15.6	
Concrete Superstructure (Approach Slab)		Cu. Yd.	104.4	
Concrete Structures		Cu. Yd.	10.6	
Reinforcement Bars, Epoxy Coated		Pound	40,000	



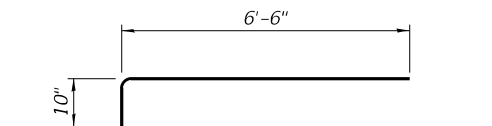
DETAIL A



VIEW C-C



BAR a10(E)



BAR a12(E)

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

(Sheet 2 of 2)

MODEL: P:\20E3487-2\Design\Design\FAU_8885_SJUE_N_Entrance_Rd_Over_N&W_RR_76F88\CADD_Sheets\0876F88-018-Approach Pavement Details.dgn



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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

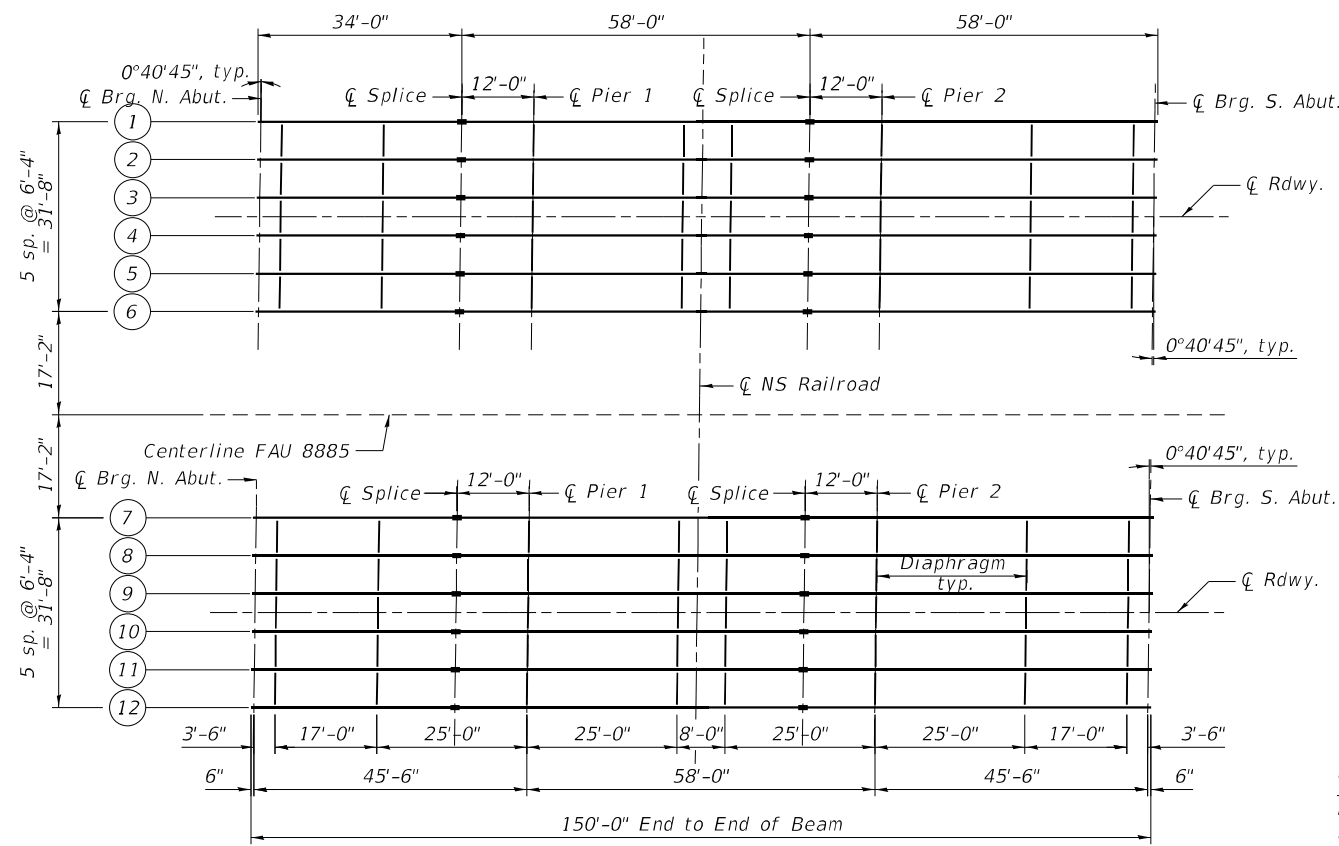
BRIDGE APPROACH SLAB DETAILS
 STRUCTURE NO. 060-0142 & STRUCTURE NO. 060-0143

SHEET 18 OF 28 SHEETS

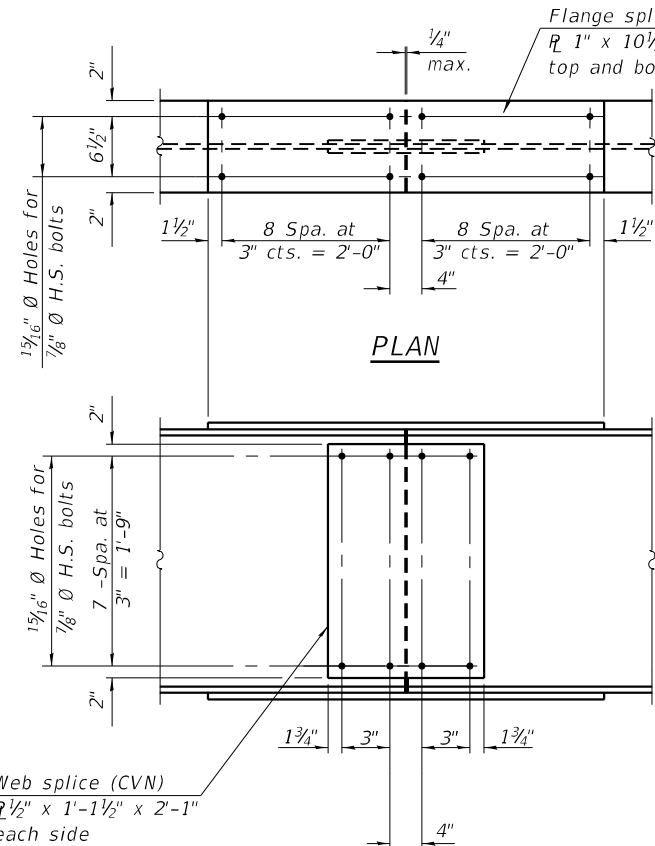
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8885	BI	MADISON	76	60
CONTRACT NO. 76F88				
FED. ROAD DIST. NO. 8 ILLINOIS FED. AID PROJECT				

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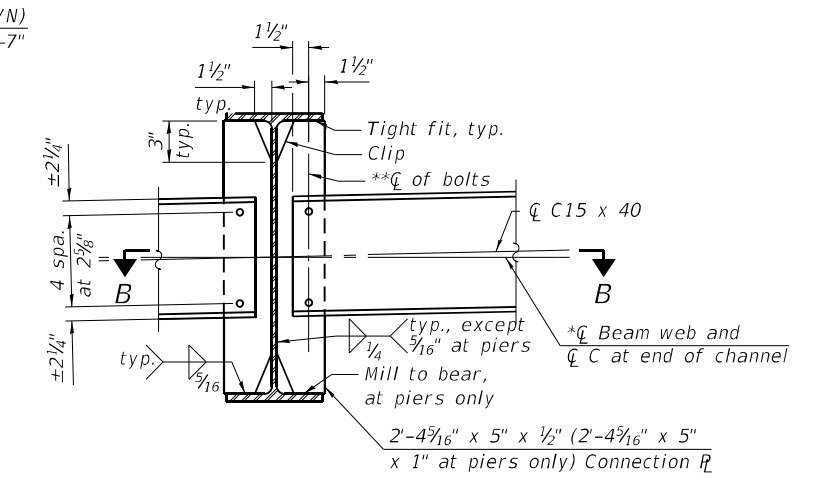
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PLAN

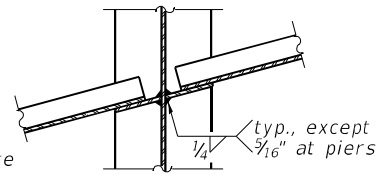


**ELEVATION
SPLICE DETAIL**
(24 Required)

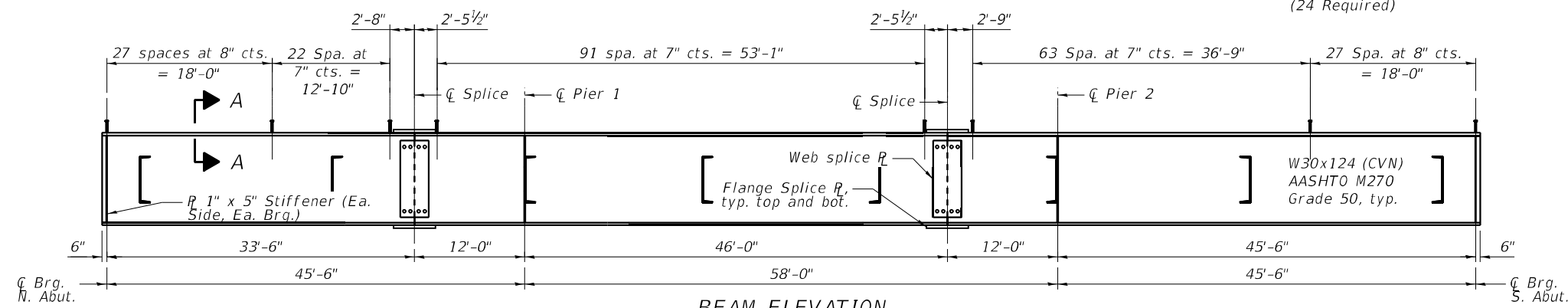


INTERIOR DIAPHRAGM
(80 Required)

Note:
Two hardened washers required for each set of oversized holes.
*Alternate channels are permitted to facilitate material acquisition. Calculated weight of structural steel is based on the lighter section.
The alternate, if utilized, shall be provided at no additional cost to the Department.
**3/4" Ø H.S. bolts, 1 3/16" Ø holes
Stop welds 1/4" from edges, typical.



SECTION B-B



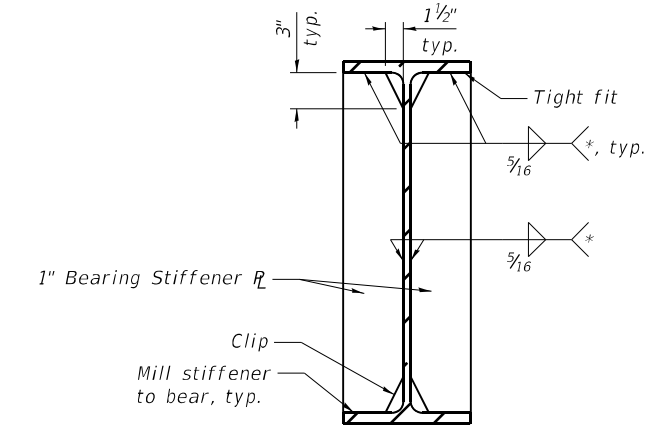
BEAM ELEVATION

"CVN" denotes load carrying components that shall conform to the Charpy-V-Notch Impact Energy Requirement, Zone 2.

TOP OF BEAM ELEVATIONS FOR FABRICATION ONLY

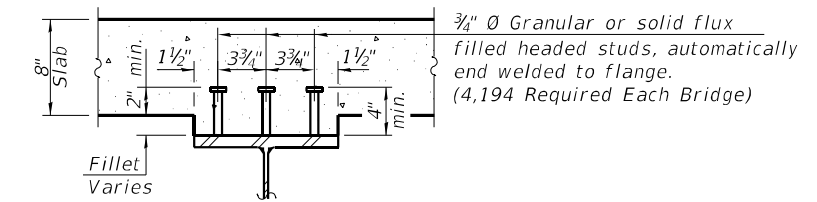
Location	Beam 1	Beam 2	Beam 3	Beam 4	Beam 5	Beam 6	Beam 7	Beam 8	Beam 9	Beam 10	Beam 11	Beam 12
Cl Brg. N. Abut.	490.16	490.27	490.36	490.36	490.26	490.15	490.14	490.25	490.35	490.35	490.25	490.13
Cl Splice 1	490.67	490.78	490.87	490.87	490.77	490.66	490.66	490.77	490.87	490.87	490.77	490.65
Cl Pier 1	490.81	490.92	491.01	491.01	490.91	490.80	490.80	490.91	491.01	491.01	490.91	490.79
Cl Splice 2	491.36	491.47	491.56	491.56	491.46	491.35	491.35	491.46	491.56	491.56	491.46	491.34
Cl Pier 2	491.44	491.55	491.64	491.64	491.54	491.43	491.43	491.54	491.64	491.64	491.54	491.42
Cl Brg. S. Abut.	491.73	491.84	491.94	491.94	491.84	491.73	491.73	491.84	491.94	491.94	491.84	491.73

Note:
All cross frame or diaphragms shall be installed as steel is erected and secured with erection pins and bolts as otherwise noted. Individual cross frames or diaphragms at supports may be temporarily disconnected to install bearing anchor bolts.



BEARING STIFFENER AT ABUTMENTS DETAIL

* Stop welds 1/4" (±1#8") from edges as shown, Typical.



SECTION A-A

**SN 060-0142
BILL OF MATERIAL**

Item	Unit	Total
Shear Stud Connectors	Each	4194

**SN 060-0143
BILL OF MATERIAL**

Item	Unit	Total
Shear Stud Connectors	Each	4194



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	CHECKED - MBH	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**FRAMING PLAN & DETAILS
STRUCTURE NO. 060-0142 & STRUCTURE NO. 060-0143**

SHEET 19 OF 28 SHEETS

FAU RTE. 8885	SECTION BI	COUNTY MADISON	TOTAL SHEETS 76	SHEET NO. 61
FED. ROAD DIST. NO. 8		ILLINOIS	CONTRACT NO. 76F88	
		FED. AID PROJECT		

MODEL: P:\20E3487-2\Design\Design\FAU 8885 SIUE N. Entrance Rd over N&W RR 76F88\CADD Sheets\0876F88-020-Composite Steel Beam Design.dgn

INTERIOR GIRDER MOMENT TABLE				
		0.4 Sp. 1 or 0.6 Sp. 3	Pier	0.5 Sp. 2
I_s	(in ⁴)	5360	5360	5360
$I_c(n)$	(in ⁴)	15565	15565	15565
$I_c(3n)$	(in ⁴)	11578	11578	11578
$I_c(cr)$	(in ⁴)			
S_s	(in ³)	355	355	355
$S_c(n)$	(in ³)	542	542	542
$S_c(3n)$	(in ³)	491	491	491
$S_c(cr)$	(in ³)			
S_x	(in ³)	522	507	521
DC1	(k/')	.780	.780	.780
M _{DC1}	('k)	110	218	115
DC2	(k/')	.175	.175	.175
M _{DC2}	('k)	25	48	26
DW	(k/')	.276	.276	.276
M _{DW}	('k)	39	76	41
LLDF		.614	.600	.589
M _{ℓ + IM}	('k)	415	349	422
f _ℓ (Strength I)	(ksi)	0	0	0
M _u + 1/2 f _ℓ S _{xc}	('k)	953	1058	975
φ _r M _n	('k)	2249	2339	2249
f _s DC1	(ksi)	3.72	7.38	3.89
f _s DC2	(ksi)	0.61	1.17	0.63
f _s DW	(ksi)	0.95	1.86	0.99
f _s (ℓ+IM)	(ksi)	9.20	7.73	9.34
f _ℓ (Service II)	(ksi)	0	0	0
f _s + 1/2 (Service II)	(ksi)	17.24	20.46	17.66
0.95R _n F _{yf}	(ksi)	47.50	47.50	47.50
f _s + 1/3 (Total)(Strength I)(ksi)				
φ _r F _n	(ksi)			
V _f	(k)	41.60	48.16	41.84

GIRDER REACTION TABLE		
	Abut.	Pier
LLDF	0.695	0.695
OCF	1.002	
R _{DC1}	(k) 13.1	45.0
R _{DC2}	(k) 2.93	10.1
R _{DW}	(k) 5.31	18.3
R _ℓ	(k) 47.8	74.5
R _{IM}	(k) 13.3	16.6
R _{Total} (Strength I)(Impact)	(k) 135	256
R _{Total} (Strength I)(No Impact)	(k) 112	227

I_s, S_s : Non-composite moment of inertia and section modulus of the steel section used for computing f_s (Total-Strength I, and Service II) due to non-composite dead loads (in.⁴ and in.³).

$I_c(n), S_c(n)$: Composite moment of inertia and section modulus of the steel and deck based upon the modular ratio, "n", used for computing f_s (Total-Strength I, and Service II) in uncracked sections due to short-term composite live loads (in.⁴ and in.³).

$I_c(3n), S_c(3n)$: Composite moment of inertia and section modulus of the steel and deck based upon 3 times the modular ratio, "3n", used for computing f_s (Total-Strength I, and Service II) in uncracked sections, due to long-term composite (superimposed) dead loads (in.⁴ and in.³).

$I_c(cr), S_c(cr)$: Composite moment of inertia and section modulus of the steel and longitudinal deck reinforcement, used for computing f_s (Total-Strength I and Service II) in cracked sections, due to both short-term composite live loads and long-term composite (superimposed) dead loads (in.⁴ and in.³).

S_x : Section modulus about the major axis of a section to the controlling flange, tension or compression, taken as yield moment with respect to the controlling flange over the yield strength of the controlling flange (in.³).

DC1: Un-factored non-composite dead load (kips/ft.).
M_{DC1}: Un-factored moment due to non-composite dead load (kip-ft.).
DC2: Un-factored long-term composite (superimposed excluding future wearing surface) dead load (kips/ft.).
M_{DC2}: Un-factored moment due to long-term composite (superimposed excluding future wearing surface) dead load (kip-ft.).
DW: Un-factored long-term composite (superimposed future wearing surface only) dead load (kips/ft.).
M_{DW}: Un-factored moment due to long-term composite (superimposed future wearing surface only) dead load (kip-ft.).
LLDF: Live Load Distribution Factor for moment and shear computed according to Article 4.6.2.2 and further IDOT provisions.
M_{ℓ + IM}: Un-factored live load moment plus dynamic load allowance (impact) (kip-ft.).
M_u: Strength I load combination of factored design moments (kip-ft.).
1.25 (M_{DC1} + M_{DC2}) + 1.5 M_{DW} + 1.75 M_{ℓ + IM}
f_ℓ: Factored calculated flange lateral bending stress as calculated using Article 6.10.1.6 and as further simplified by IDOT provisions (ksi).
φ_rM_n: Factored nominal flexural resistance of the section determined as specified in Article 6.10.7.1 or A6 as applicable (kip-ft.).

f_s DC1: Un-factored stress at edge of flange for controlling steel flange due to vertical non-composite dead loads as calculated below (ksi).
M_{DC1} / S_s

f_s DC2: Un-factored stress at edge of flange for controlling steel flange due to vertical composite dead loads as calculated below (ksi).
M_{DC2} / S_{c(3n)} or M_{DC2} / S_{c(cr)} as applicable.

f_s DW: Un-factored stress at edge of flange for controlling steel flange due to vertical composite future wearing surface loads as calculated below (ksi).
M_{DW} / S_{c(3n)} or M_{DW} / S_{c(cr)} as applicable.

f_s (ℓ + IM): Un-factored stress at edge of flange for controlling steel flange due to vertical composite live load plus impact loads as calculated below (ksi).
M_{ℓ + IM} / S_{c(n)} or M_{ℓ + IM} / S_{c(cr)} as applicable.

f_s + f_ℓ/2 (Service II): Sum of stresses as computed below (ksi).
Service II Resistance: Composite (0.95R_nF_{yf}) or noncomposite (0.80R_nF_{yf}) stress capacity according to Article 6.10.4.2 (ksi).
f_s + f_ℓ/3 (Strength I): Sum of stresses as computed below on non-compact sections (ksi).
1.25 (f_s DC1 + f_s DC2) + 1.5 f_s DW + 1.75 f_s (ℓ + IM) + f_ℓ/2

φ_rF_n: Factored nominal flexural resistance of the section as specified in Article 6.10.7.2 or 6.10.8 as applicable (ksi).
V_r: Maximum factored shear range in span computed according to Article 6.10.10.
OCF: Obtuse Correction Factor according to Article 4.6.2.2.3c or as further simplified by IDOT provisions.
R_{DC1}: Un-factored reaction due to non-composite dead load (kip).
R_{DC2}: Un-factored reaction due to long-term composite (superimposed excluding future wearing surface) dead load (kip).
R_{DW}: Un-factored reaction due to long-term composite (superimposed future wearing surface only) dead load (kip).
R_ℓ: Un-factored live load reaction (kip).
R_{IM}: Un-factored dynamic load allowance (impact) (kip).
R_{Total} (Strength I)(Impact): Strength I load combination of factored design reactions (kip).
1.25 (R_{DC1} + R_{DC2}) + 1.5R_{DW} + 1.75 (R_ℓ + R_{IM})
R_{Total} (Strength I)(No Impact): Strength I load combination of factored design reactions, not including dynamic load allowance (Impact) (kip).
1.25 (R_{DC1} + R_{DC2}) + 1.5R_{DW} + 1.75 (R_ℓ)

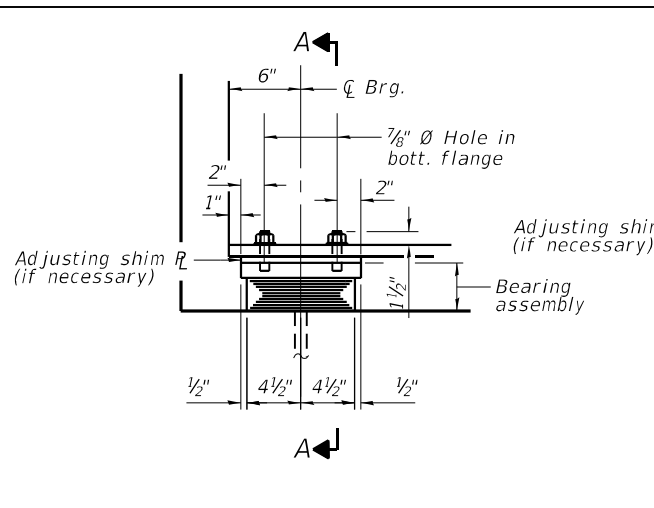


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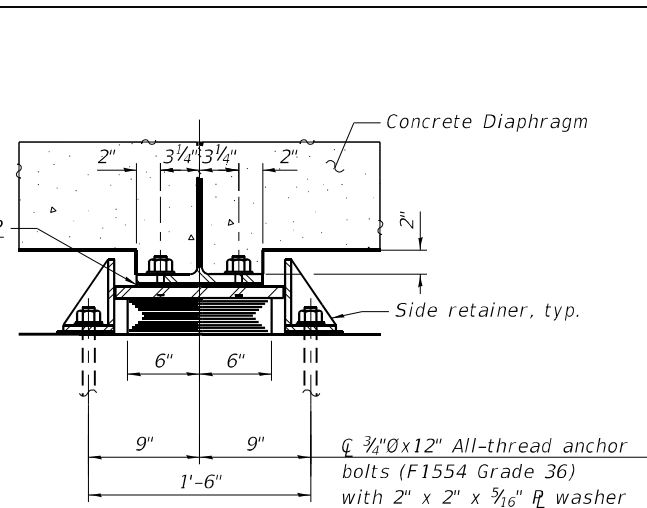
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STEEL DETAILS
STRUCTURE NO. 060-0142 & STRUCTURE NO. 060-0143

F.A.U. RTE. 8885	SECTION BI	COUNTY MADISON	TOTAL SHEETS 76	SHEET NO. 62
CONTRACT NO. 76F88				
FED. ROAD DIST. NO. 8 ILLINOIS FED. AID PROJECT				

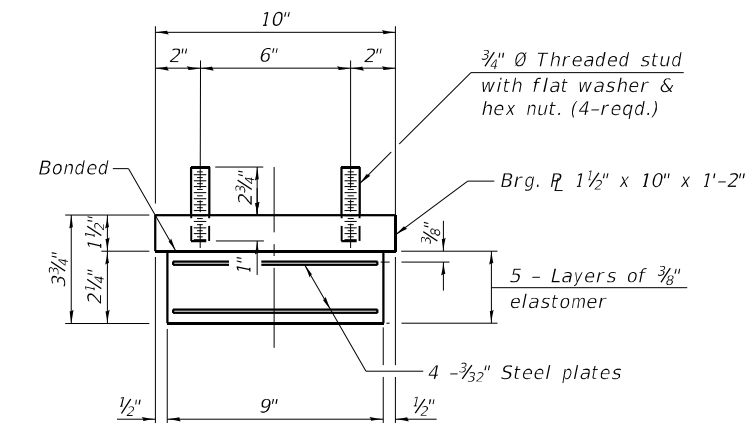


ELEVATION AT ABUT.



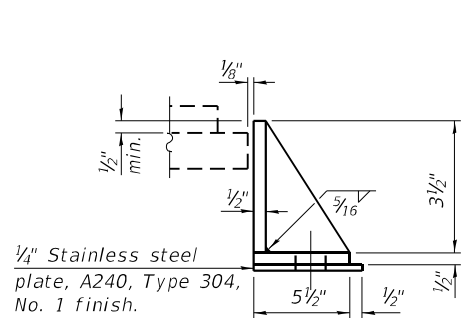
SECTION A-A

TYPE I ELASTOMERIC EXP. BRG. AT ABUTMENTS



BEARING ASSEMBLY AT ABUTMENTS

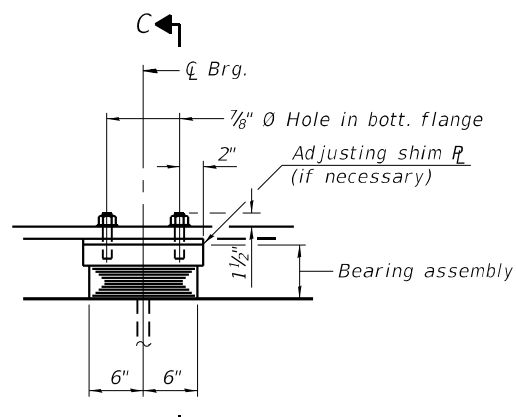
Note:
Shim plates shall not be placed under bearing assembly.



SIDE RETAINER AT ABUTMENTS

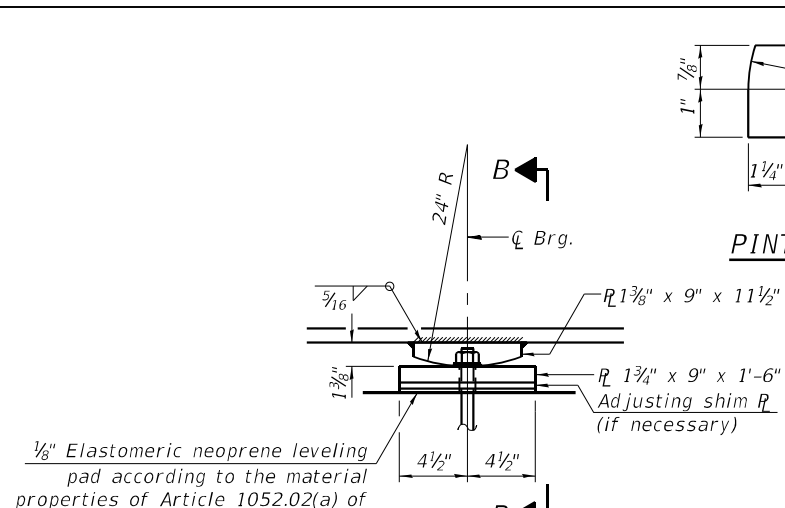
Equivalent rolled angle with stiffeners will be allowed in lieu of welded plates.

Notes:
Two 1/8 in. adjusting shims shall be provided for each bearing in addition to all other plates or shims and placed as shown on bearing details.
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.
All bearing plates, side retainers, anchor bolts, nuts, washers and pintles shall be galvanized according to AASHTO M111 or M232 as applicable.
Remove existing bearings and burn existing anchor bolts flush with existing concrete surface. Cost is included in "Removal of Existing Superstructure".

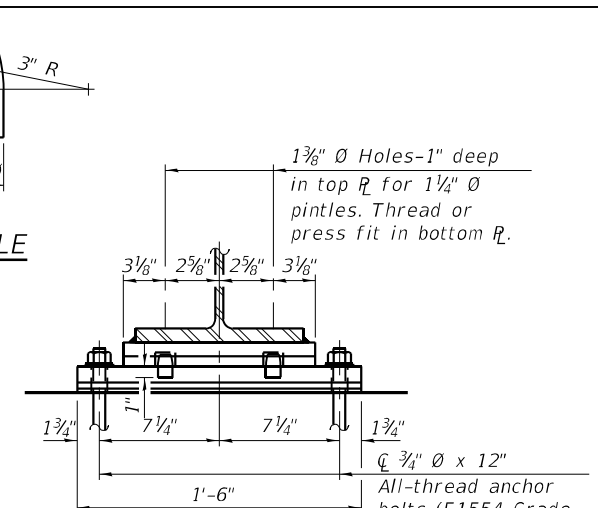


ELEVATION AT PIER 2

TYPE I ELASTOMERIC EXP. BRG. AT PIER 2

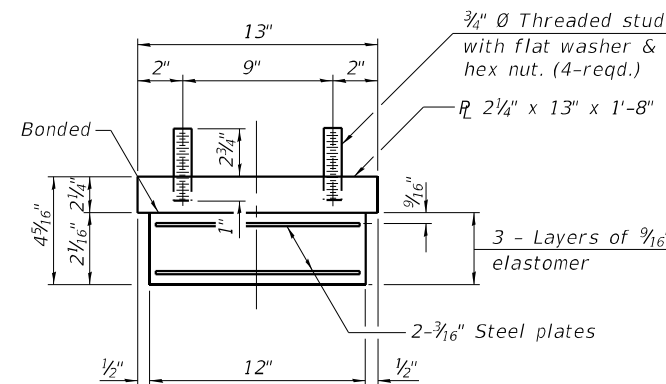


ELEVATION AT PIER 1



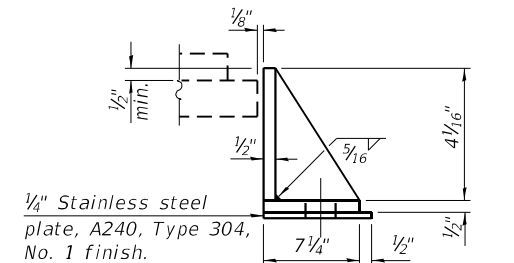
SECTION B-B

FIXED BEARING AT PIER 1



BEARING ASSEMBLY AT PIER 2

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



SIDE RETAINER AT PIER 2

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

SN 060-0142 BILL OF MATERIAL

Item	Unit	Total
Elastomeric Bearing Assembly Type I	Each	18
Anchor Bolts, 1"	Each	12
Anchor Bolts, 3/4"	Each	36

SN 060-0143 BILL OF MATERIAL

Item	Unit	Total
Elastomeric Bearing Assembly Type I	Each	18
Anchor Bolts, 1"	Each	12
Anchor Bolts, 3/4"	Each	36

MODEL: P:\20E3487-2\Design\Design\FAU 8885 SIUE N. Entrance Rd over N&W RR 76F88\CADD Sheets\0876F88-021-Bearing Details.dgn
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BENTON & ASSOCIATES, INC.
1910 W. Lafayette Ave., Joplin, MO 64501
417-783-4444 FAX 417-783-4444
BENTON & ASSOCIATES, INC.
Mobile Design Firm
Registration No. 36-000002

8/17/2023 5:31:51 PM

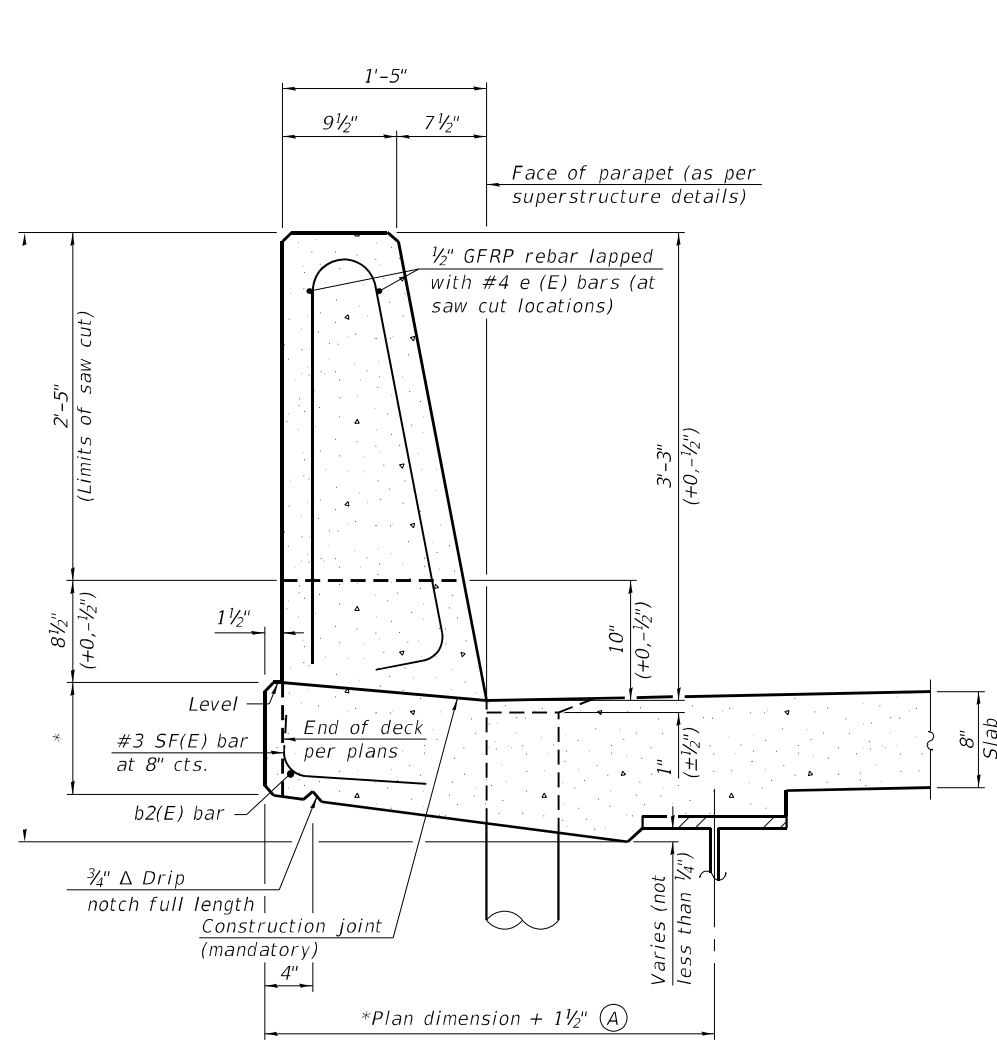
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	CHECKED - MBH	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BEARING DETAILS I
STRUCTURE NO. 060-0142 & STRUCTURE NO. 060-0143

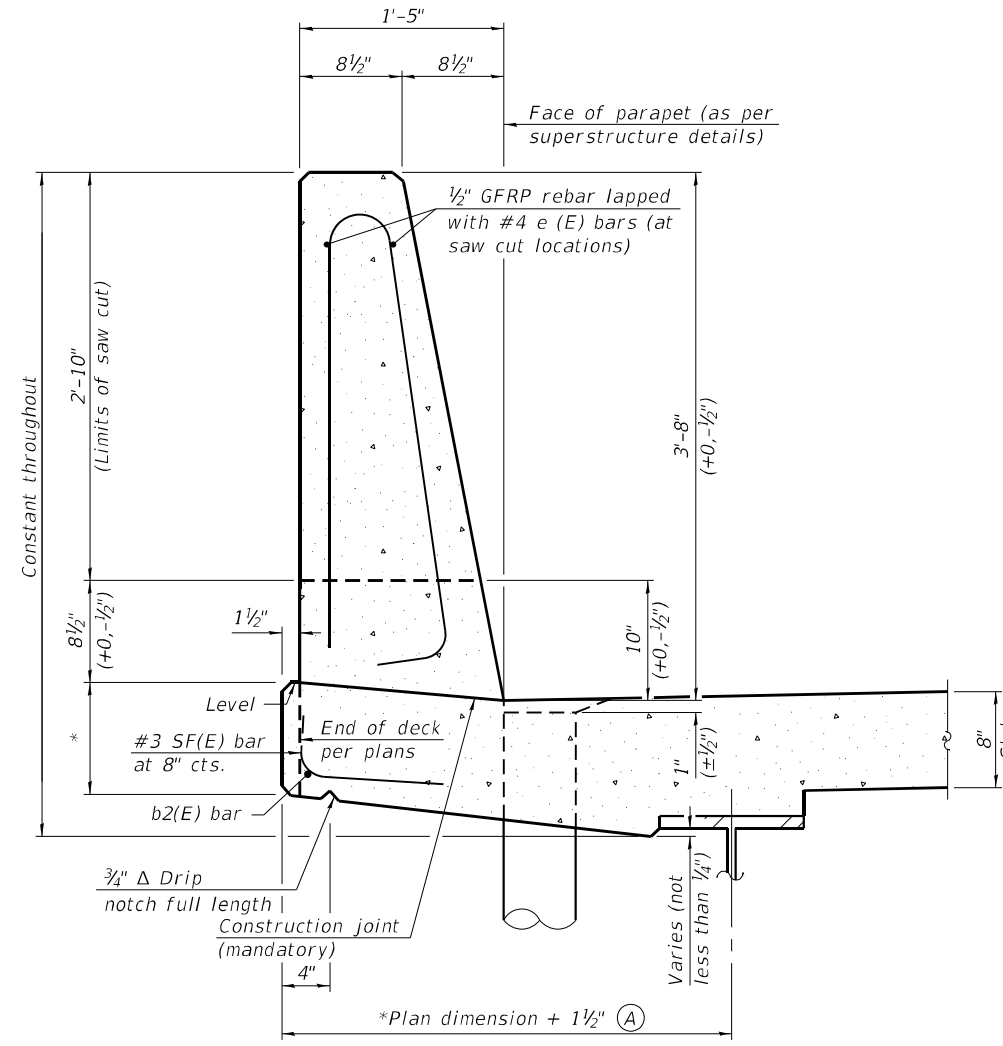
SHEET 21 OF 28 SHEETS

F.A.U. RTE. 8885	SECTION BI	COUNTY MADISON	TOTAL SHEETS 76	SHEET NO. 63
FED. ROAD DIST. NO. 8 ILLINOIS			FED. AID PROJECT CONTRACT NO. 76F88	



**39" CONSTANT-SLOPE
 PARAPET SECTION**

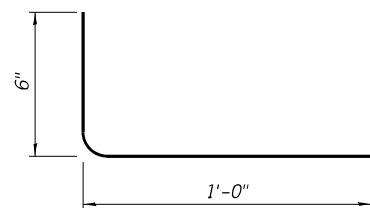
(Showing dimensions, d(E), and 1/2" Ø GFRP rebar)



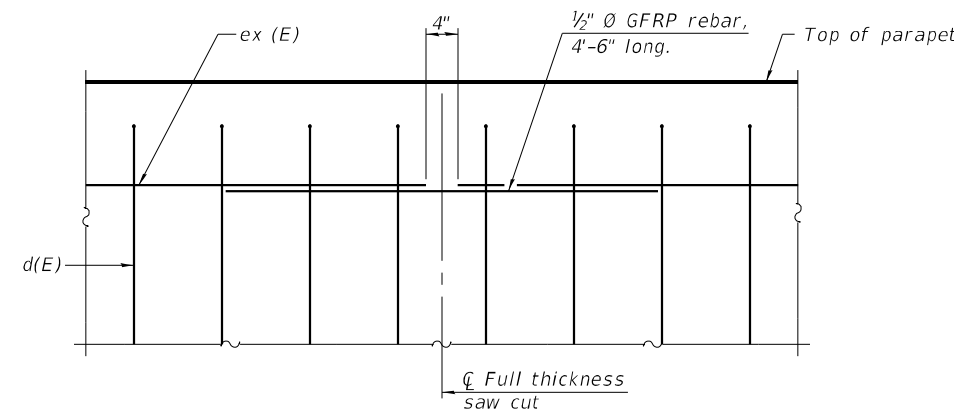
**44" CONSTANT-SLOPE
 PARAPET SECTION**

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

*See Superstructure Details.



SF(E) BAR



GFRP REBAR STIFFENING DETAIL

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

Notes:
 All dimensions shall remain the same as shown on superstructure details, except dimension A which is to be revised as shown. Additional concrete needed to revise dimension A = 0.00348 cu. yds./ft. for 39" and 44" parapets.
 Place full depth aluminum sheets as shown on superstructure details.
 Replace all cork joint filler locations with a full thickness saw cut.
 Steel superstructure shown. Other superstructure types similar.

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SFP 39-44

11-1-2022



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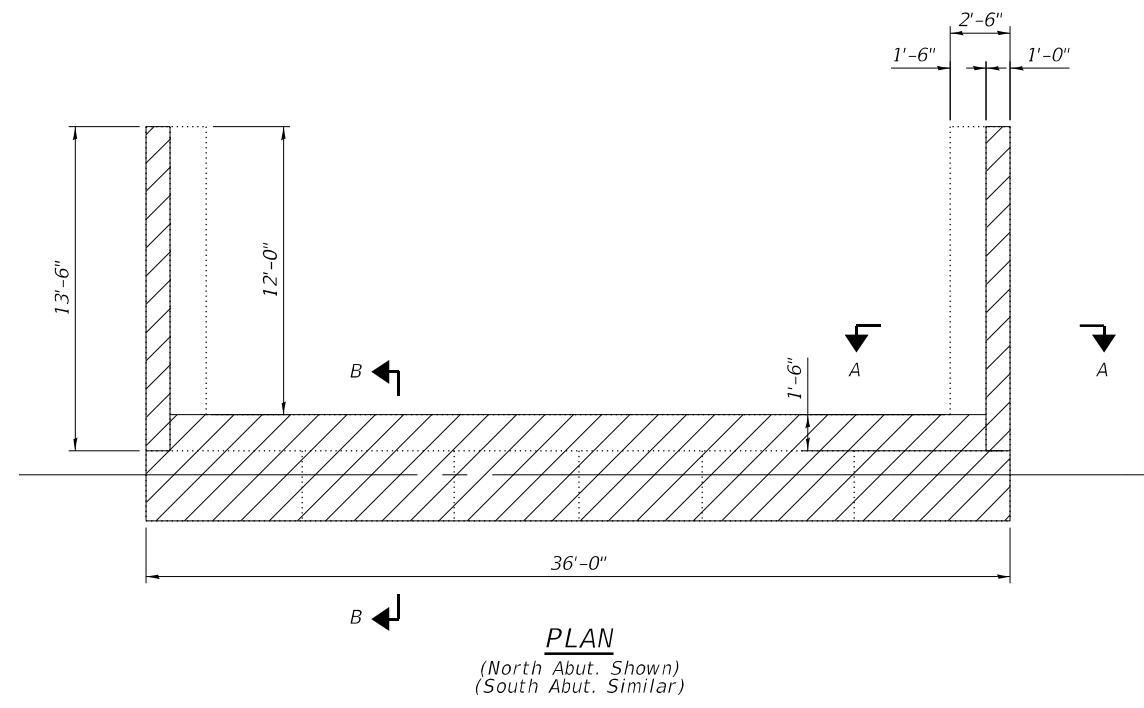
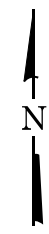
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**CONCRETE PARAPET SLIPFORMING OPTION
 STRUCTURE NO. 060-0142 & STRUCTURE NO. 060-0143**

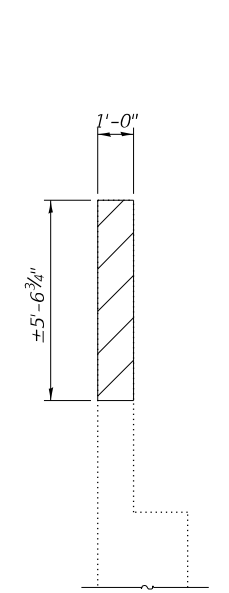
SHEET 22 OF 28 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 76F88				
FED. ROAD DIST. NO. 8 ILLINOIS FED. AID PROJECT				

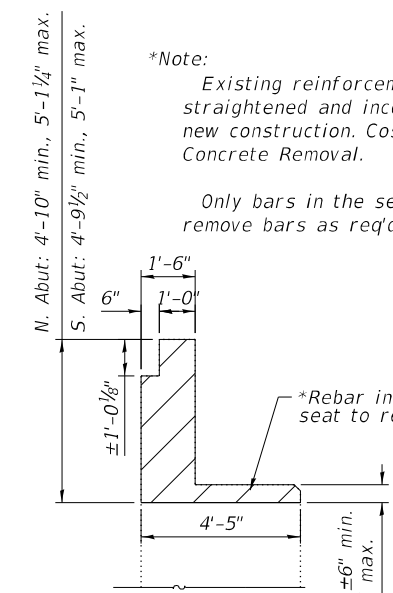
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PLAN
(North Abut. Shown)
(South Abut. Similar)



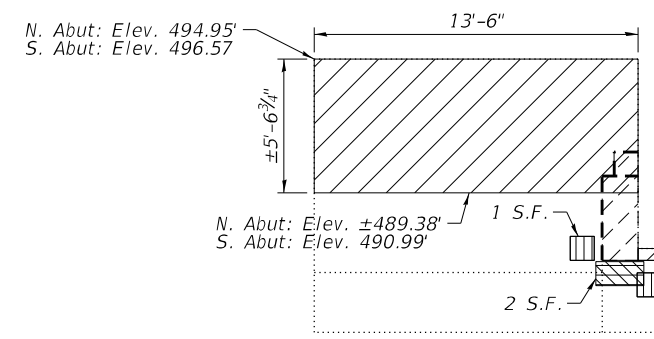
SECTION A-A



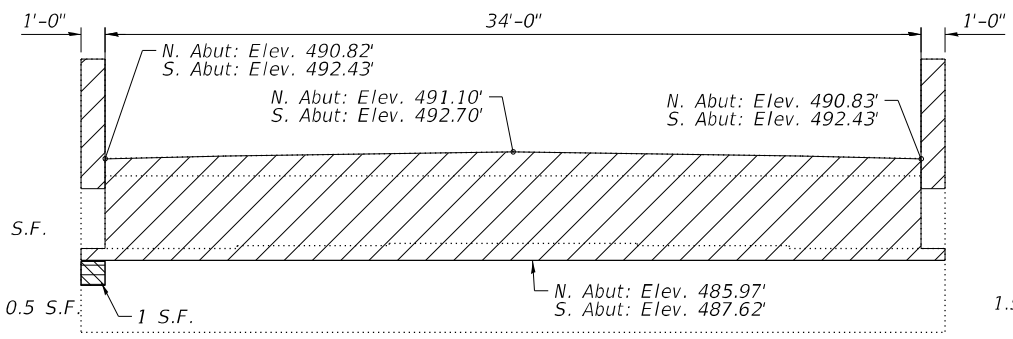
SECTION B-B

***Note:**
Existing reinforcement shall be cleaned, straightened and incorporated into the new construction. Cost included with Concrete Removal.
Only bars in the seat are to remain, remove bars as req'd in backwall.

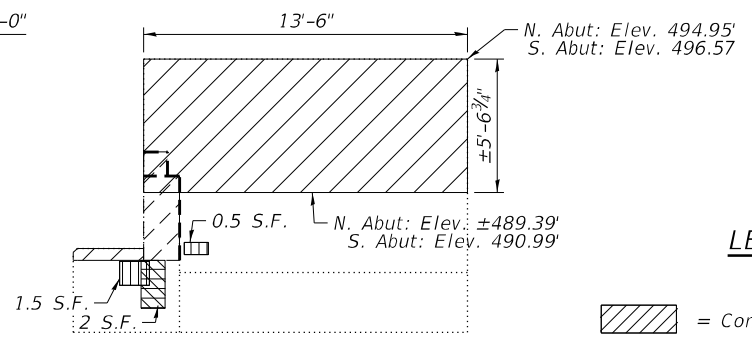
Varies: ±6" min. to ±8 3/8" max.



WEST WINGWALL



ELEVATION
(Looking North on North Abut.)
(Looking South on South Abut.)



EAST WINGWALL

LEGEND

- = Concrete Removal Limits
- = North Abut. Structural Repair of Concrete
- = South Abut. Structural Repair of Concrete

S.F. = Square Feet

Note:
The quantities shown are for estimating purposes only. The area to be repaired will be determined by the Engineer at the time of construction. Actual repair location shall be shown on the as-built plans.

SN 060-0142
BILL OF MATERIAL

Item	Unit	Total
Structural Repair of Concrete (Depth ≤ 5 in.)	Sq. Ft.	10
Concrete Removal	Cu. Yd.	32.0

BA BENTON & ASSOCIATES, INC.
1910 N. Lafayette Ave., Naperville, IL 62560
630.206.4600 (711) 246-6188 Fax
Professional No. 384-000582

USER NAME = clocher	DESIGNED - CML	REVISED -
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PLOT DATE = 8/17/2023	DRAWN - CML	REVISED -
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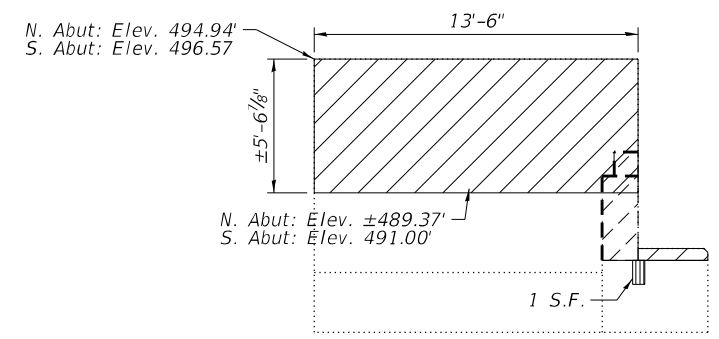
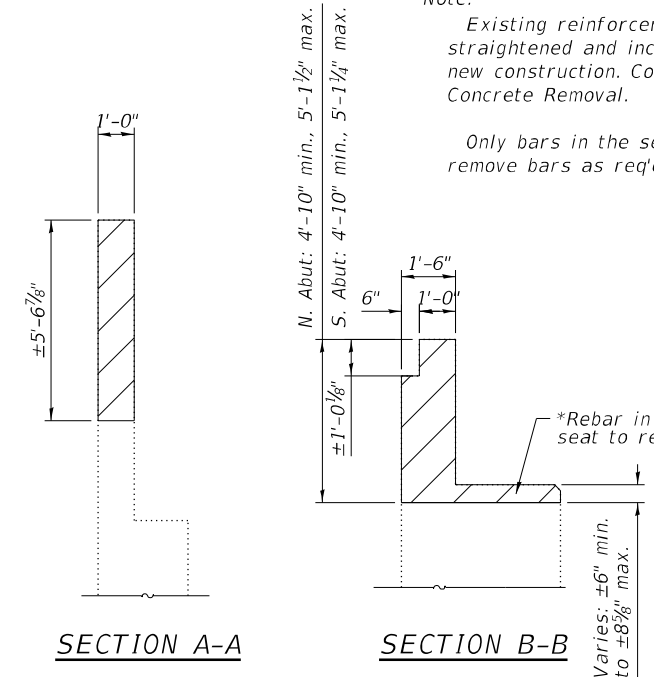
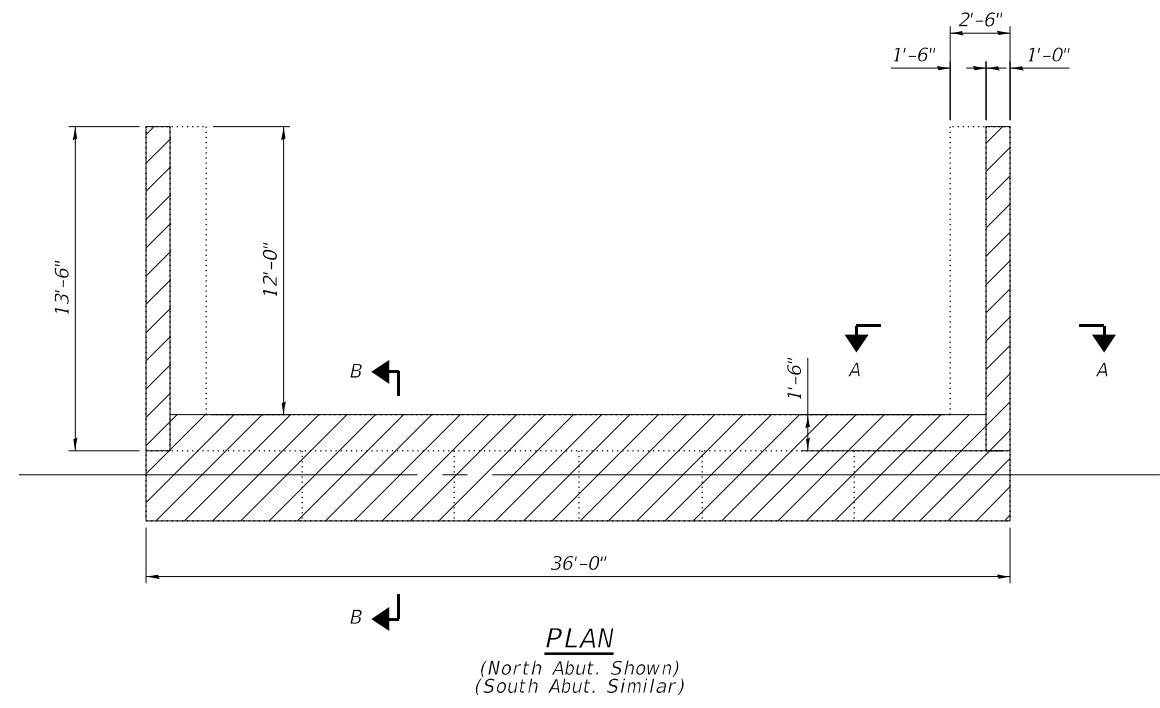
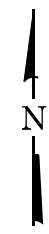
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PARTIAL ABUTMENT & WINGWALL REMOVAL & REPAIR
STRUCTURE NO. 060-0142

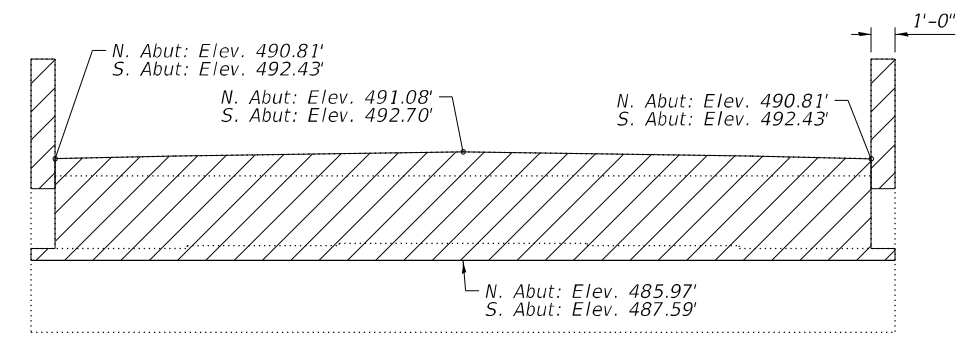
SHEET 23 OF 28 SHEETS

FAU. RTE. 8885	SECTION BI	COUNTY MADISON	TOTAL SHEETS 76	SHEET NO. 65
CONTRACT NO. 76F88				
FED. ROAD DIST. NO. 8 ILLINOIS FED. AID PROJECT				

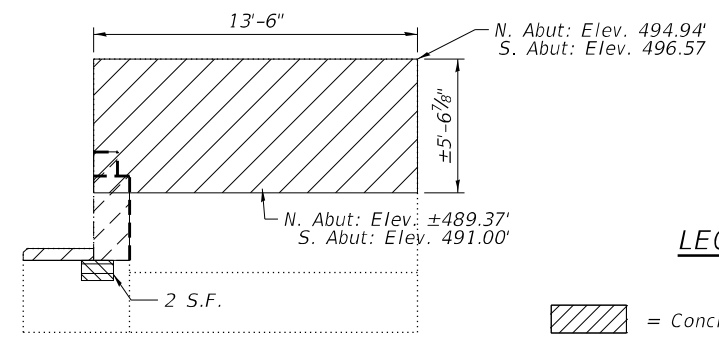
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WEST WINGWALL



ELEVATION
(Looking North on North Abut.)
(Looking South on South Abut.)



EAST WINGWALL

LEGEND

- = Concrete Removal Limits
- = North Abut. Structural Repair of Concrete
- = South Abut. Structural Repair of Concrete

S.F. = Square Feet

SN 060-0143
BILL OF MATERIAL

Item	Unit	Total
Structural Repair of Concrete (Depth ≤ 5 in.)	Sq. Ft.	3
Concrete Removal	Cu. Yd.	32.0

Note:
The quantities shown are for estimating purposes only. The area to be repaired will be determined by the Engineer at the time of construction. Actual repair location shall be shown on the as-built plans.
Contractor to take care in removing existing concrete to leave existing reinforcement intact.

BA BENTON & ASSOCIATES, INC.
1910 N. Lafayette Ave., Naperville, IL 62560
TEL: 630-468-0700 FAX: 630-468-0700
www.ba-inc.com Registration No. 04-000882

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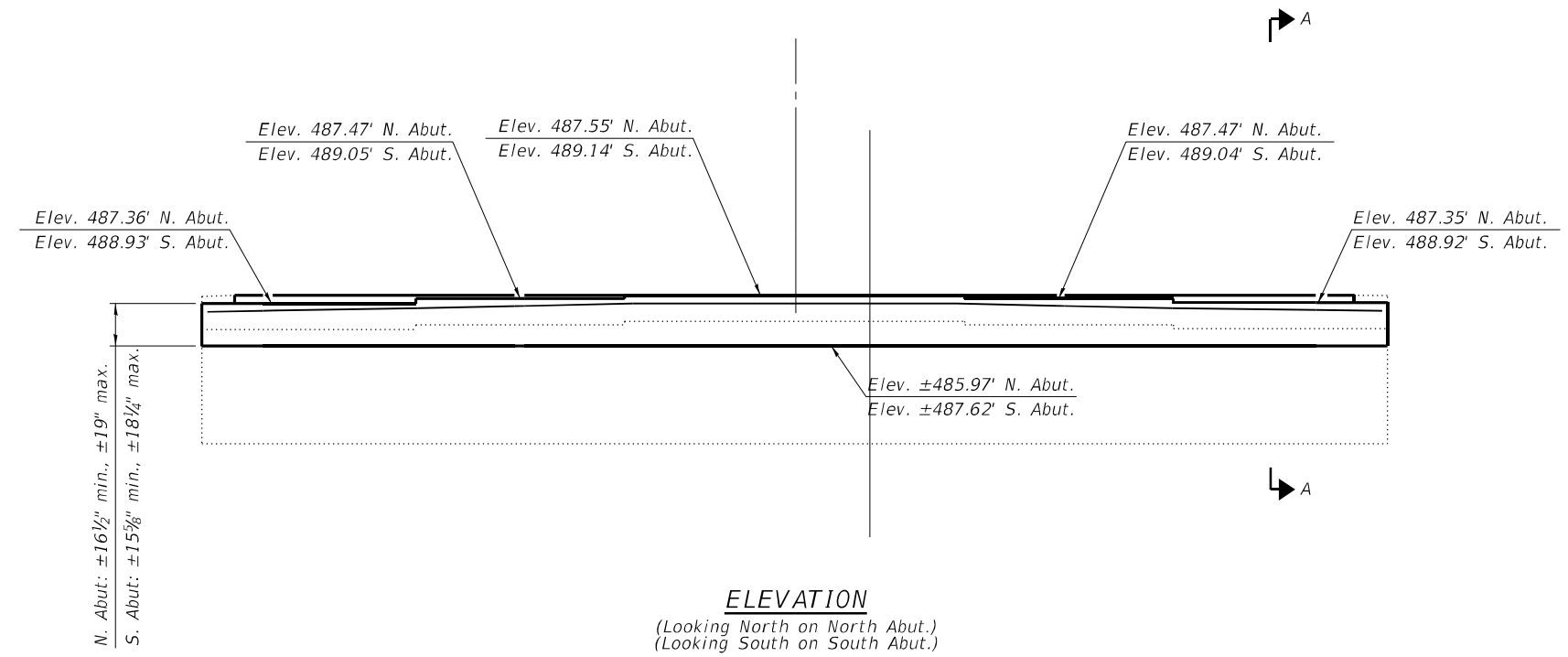
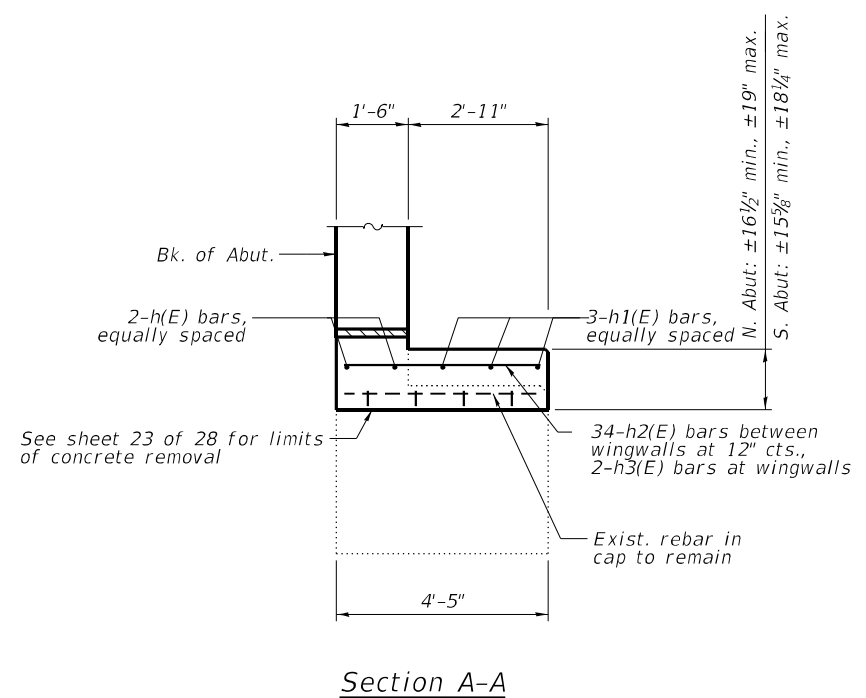
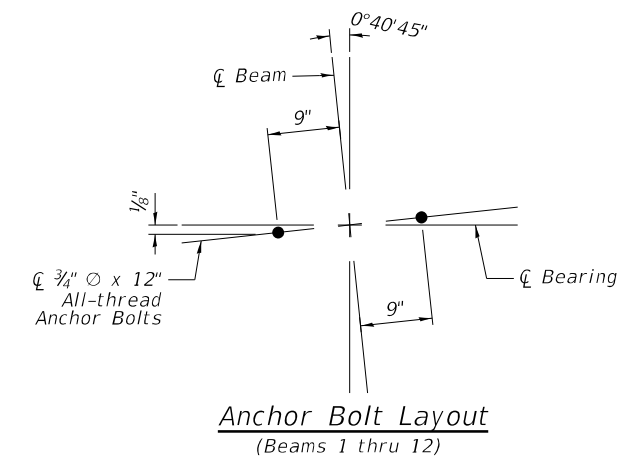
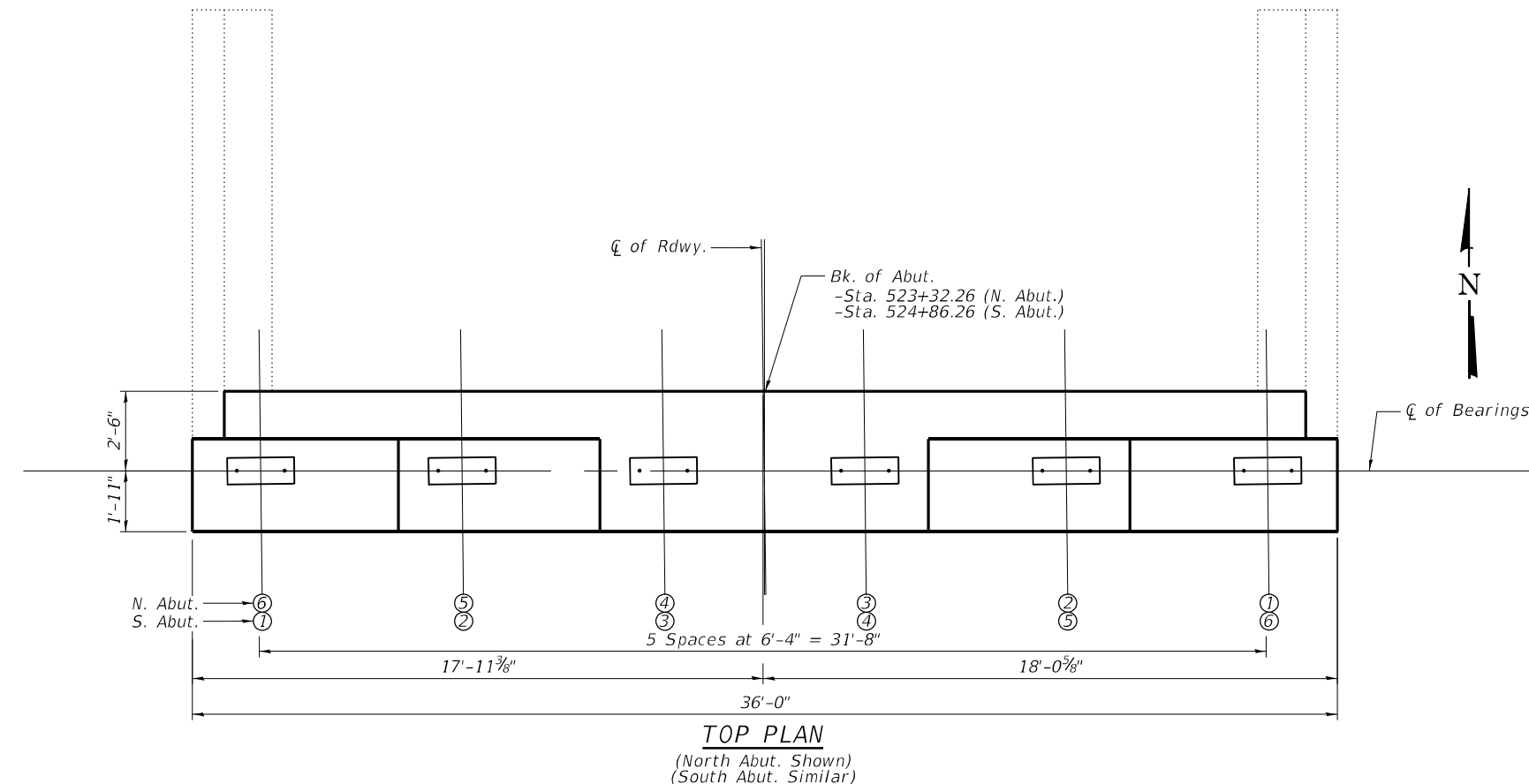
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PARTIAL ABUTMENT & WINGWALL REMOVAL & REPAIR
STRUCTURE NO. 060-0143

SHEET 24 OF 28 SHEETS

F.A.U. RTE. 8885	SECTION BI	COUNTY MADISON	TOTAL SHEETS 76	SHEET NO. 66
CONTRACT NO. 76F88				
FED. ROAD DIST. NO. 8 ILLINOIS FED. AID PROJECT				

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BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h(E)	4	#5	33'-8"	—
h ₁ (E)	6	#5	35'-8"	—
h ₂ (E)	68	#5	4'-1"	—
h ₃ (E)	4	#5	2'-7"	—
Reinforcement Bars, Epoxy Coated			Lbs.	670
Concrete Structures			Cu. Yds.	17.6

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



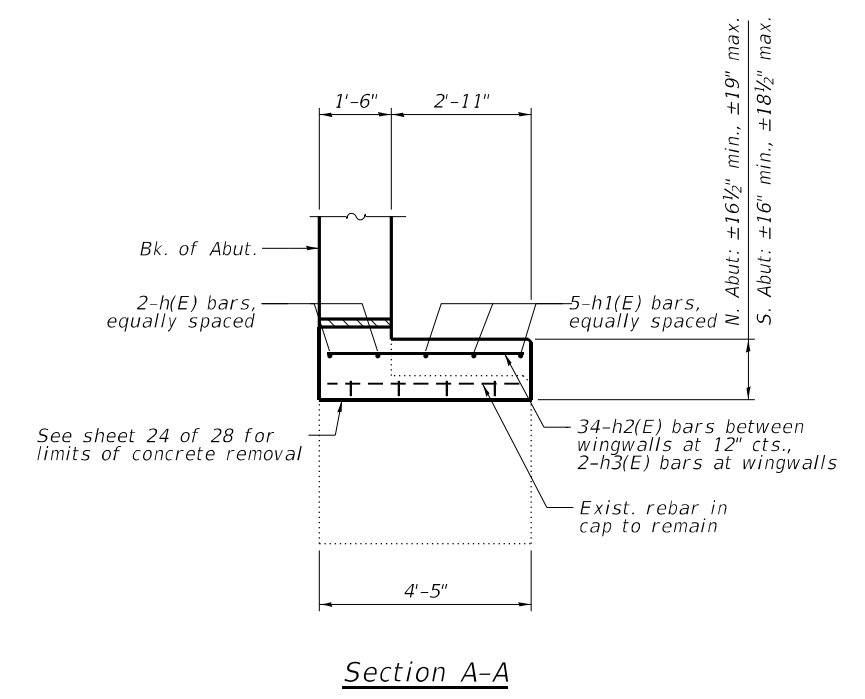
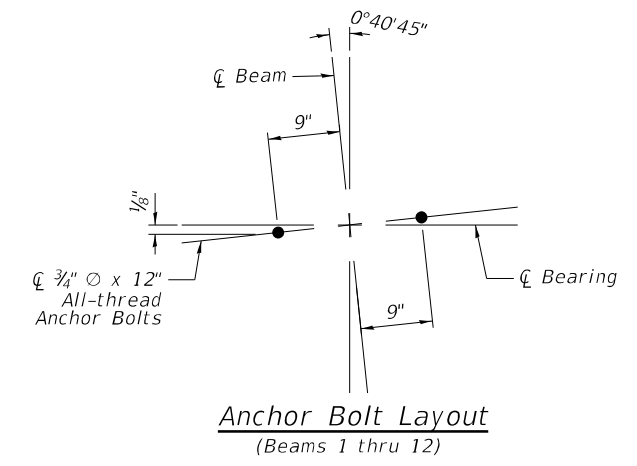
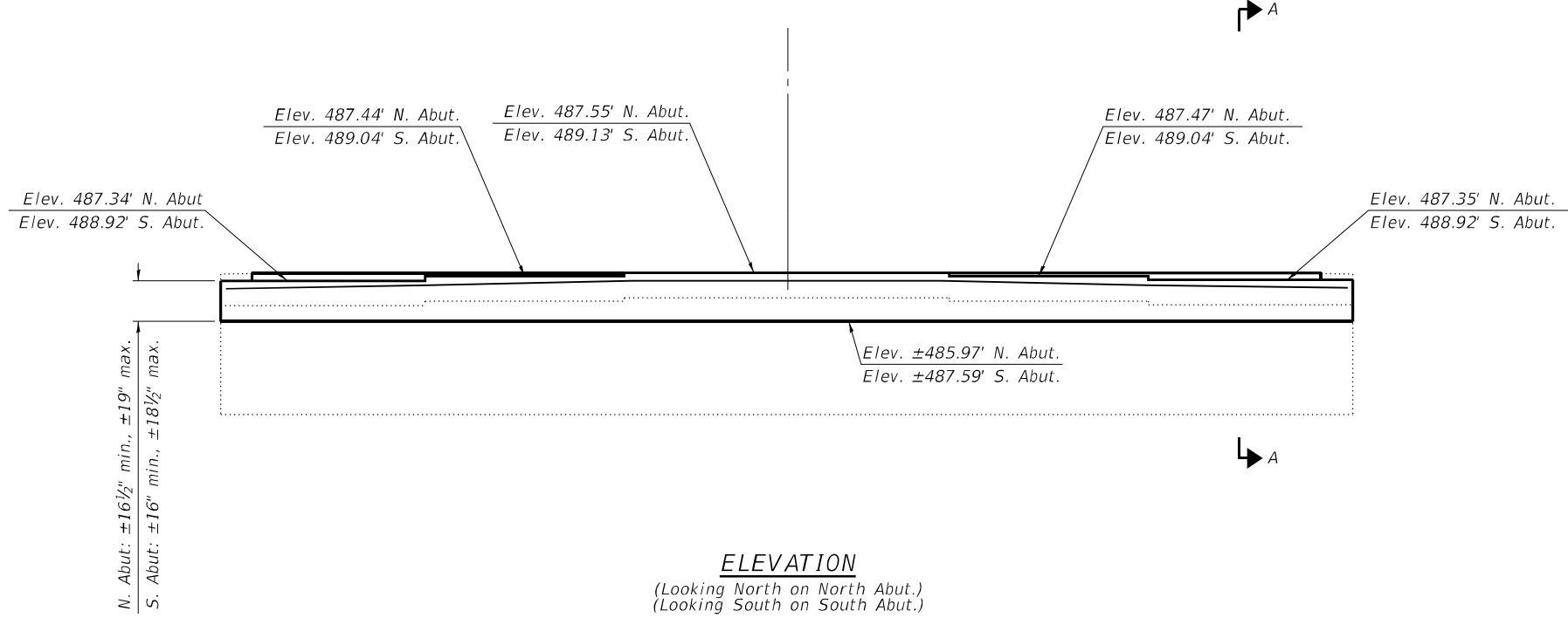
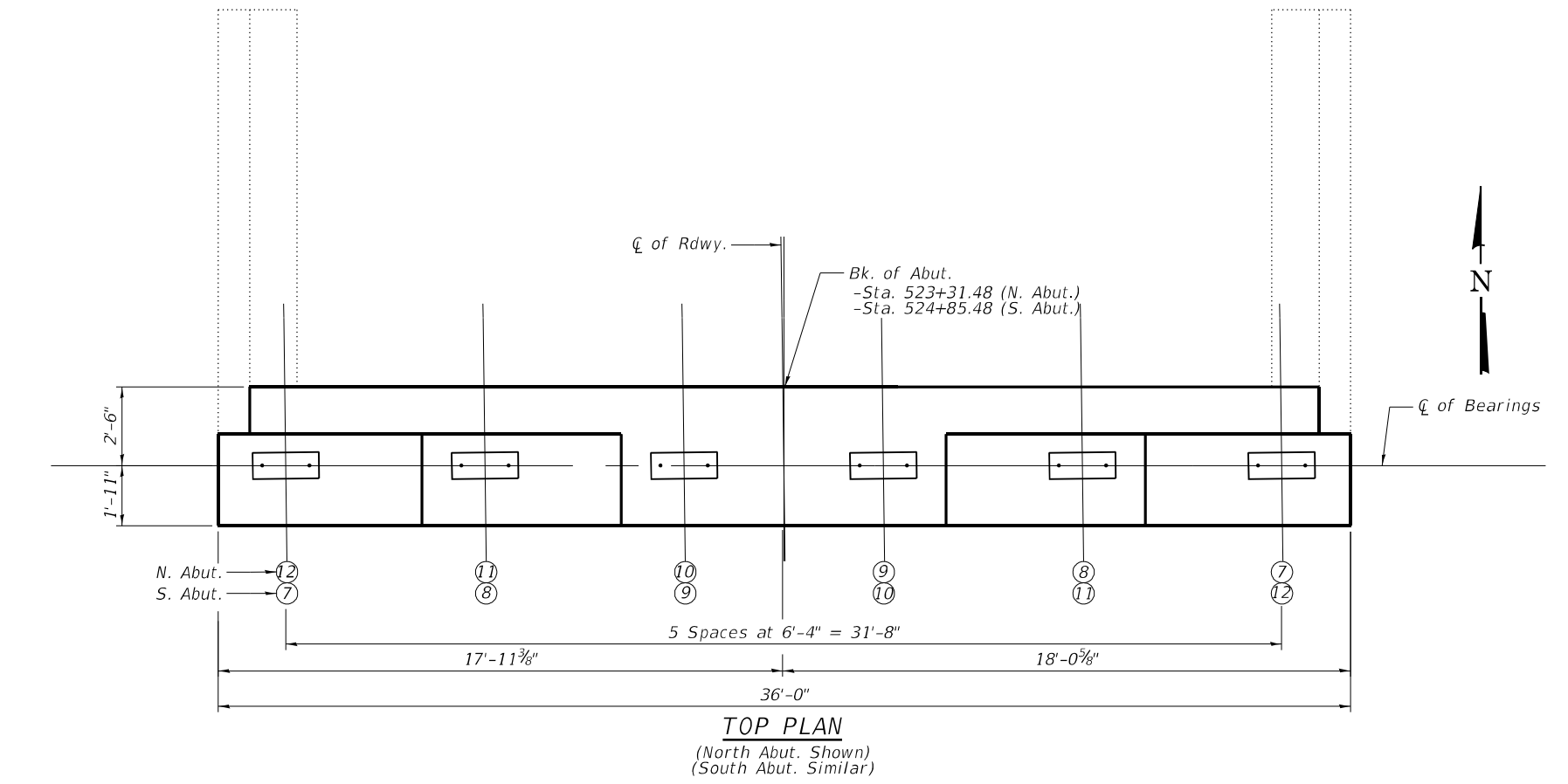
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CONCRETE CAP EXTENSION DETAILS - ABUTMENTS
STRUCTURE NO. 060-0142

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8885	BI	MADISON	76	67
CONTRACT NO. 76F88				
FED. ROAD DIST. NO. 8		ILLINOIS		FED. AID PROJECT

MODEL: P:\20E3487-2\Design\Design\FAU_8885_SUE N. Entrance Rd over N&W RR_76F88\CADD Sheets\087688-026-SB Abut. Concrete Cap Extension Details.dgn



BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h(E)	4	#5	33'-8"	—
h ₁ (E)	6	#5	35'-8"	—
h ₂ (E)	68	#5	4'-1"	—
h ₃ (E)	4	#5	2'-7"	—
Reinforcement Bars, Epoxy Coated			Lbs.	670
Concrete Structures			Cu. Yds.	17.2

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



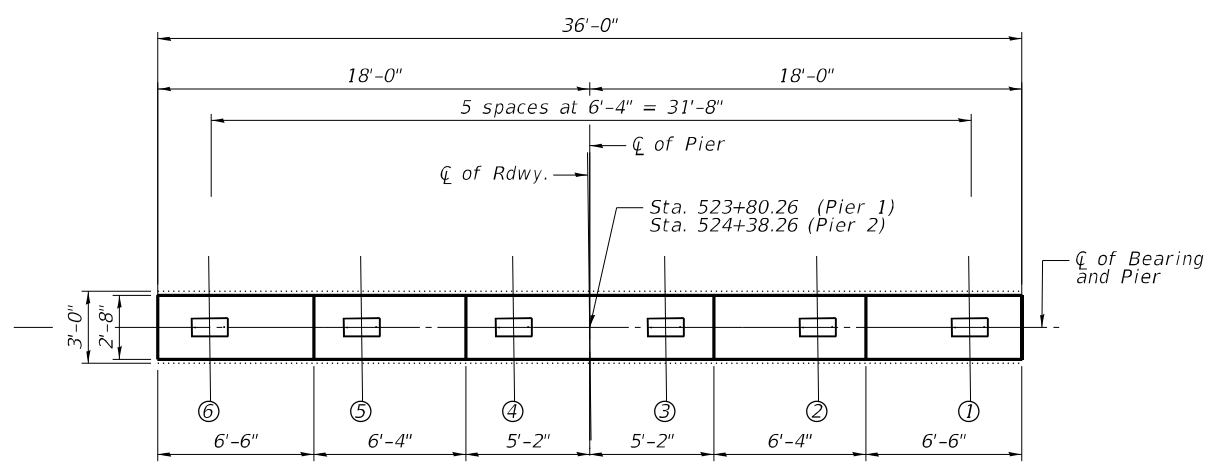
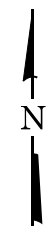
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

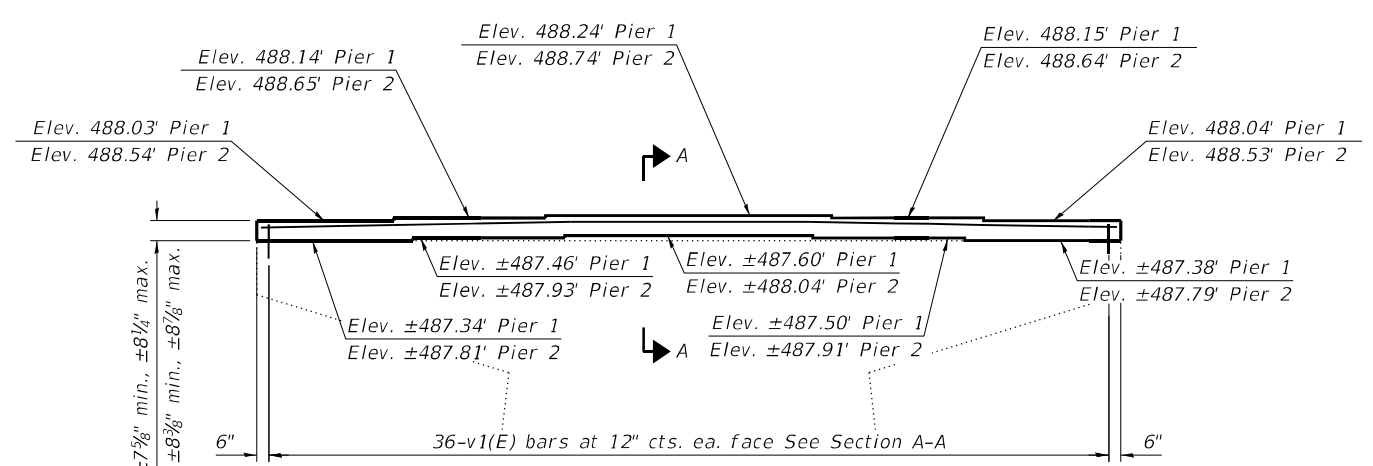
**CONCRETE CAP EXTENSION DETAILS - ABUTMENTS
STRUCTURE NO. 060-0143**

F.A.U. RTE. 8885	SECTION BI	COUNTY MADISON	TOTAL SHEETS 76	SHEET NO. 68
FED. ROAD DIST. NO. 8 ILLINOIS FED. AID PROJECT			CONTRACT NO. 76F88	

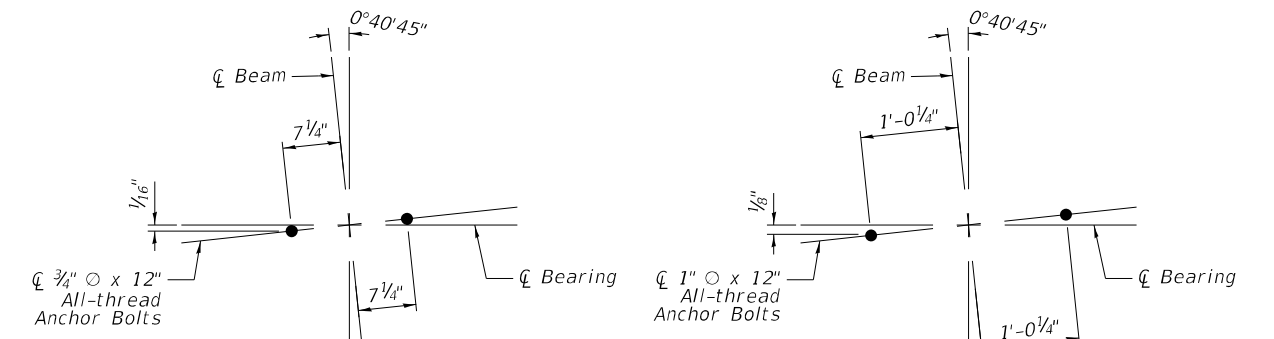
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TOP PLAN
 (Pier 1 Shown)
 (Pier 2 Similar)

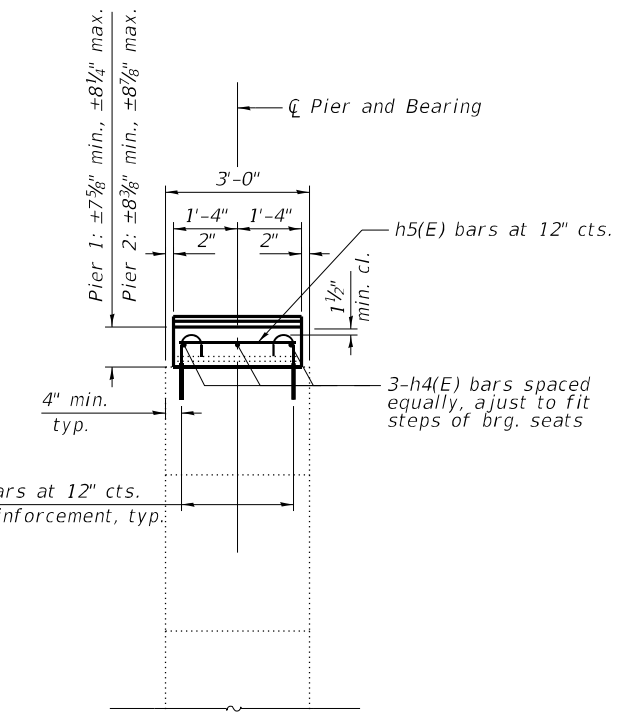


ELEVATION
 (Looking North on Pier 1)
 (Looking South on Pier 2)



PIER 1 ANCHOR BOLT LAYOUT
 (Beams 1 thru 12)

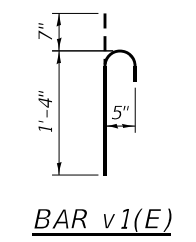
PIER 2 ANCHOR BOLT LAYOUT
 (Beams 1 thru 12)



Section A-A

*Drill and epoxy v1(E) bars at 12" cts.
 Space to miss exist. reinforcement, typ.

Notes:
 *Bar v1(E) shall be drilled and grouted according to Section 584 of the standard specifications to 9" min. embedment. Adjust as necessary to miss existing reinforcement.



BAR v1(E)

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h ₄ (E)	6	#5	35'-8"	—
h ₅ (E)	72	#5	2'-4"	—
v ₁ (E)	144	#5	1'-11"	⌋
Reinforcement Bars, Epoxy Coated			Lbs.	690
Concrete Structures			Cu. Yds.	6.2



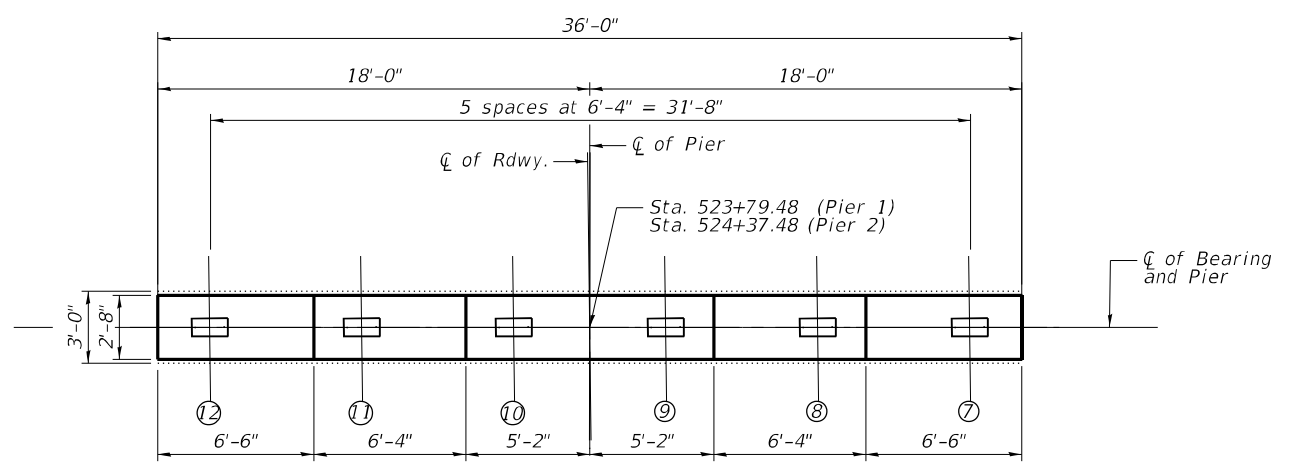
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PLOT DATE =	8/17/2023	CHECKED -	MBH	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

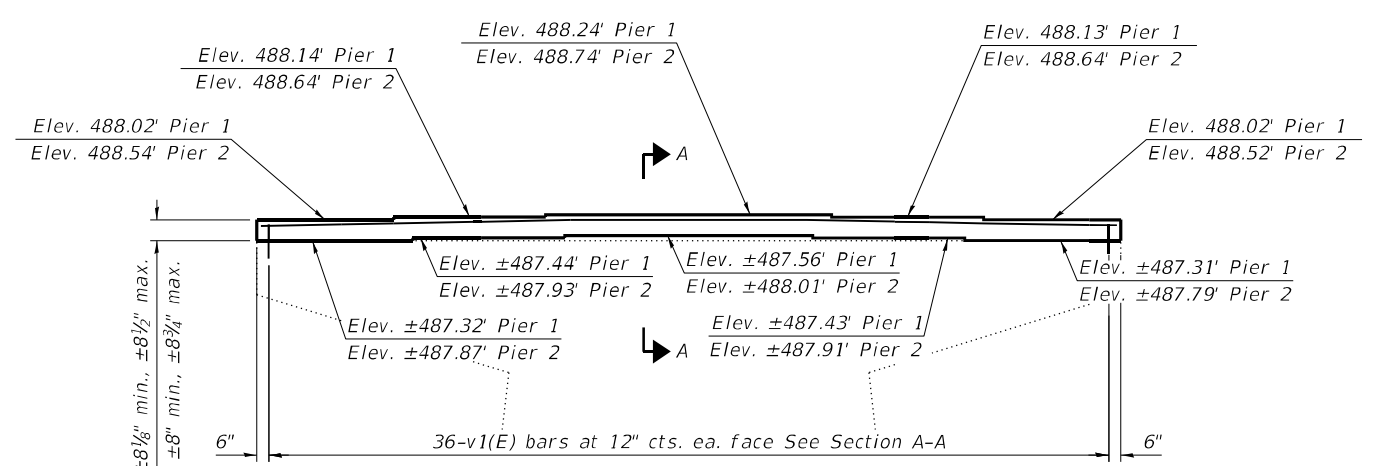
CONCRETE CAP EXTENSION DETAILS - PIERS 1 & 2
STRUCTURE NO. 060-0142

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8885	BI	MADISON	76	69
CONTRACT NO. 76F88				
FED. ROAD DIST. NO. 8 ILLINOIS FED. AID PROJECT				

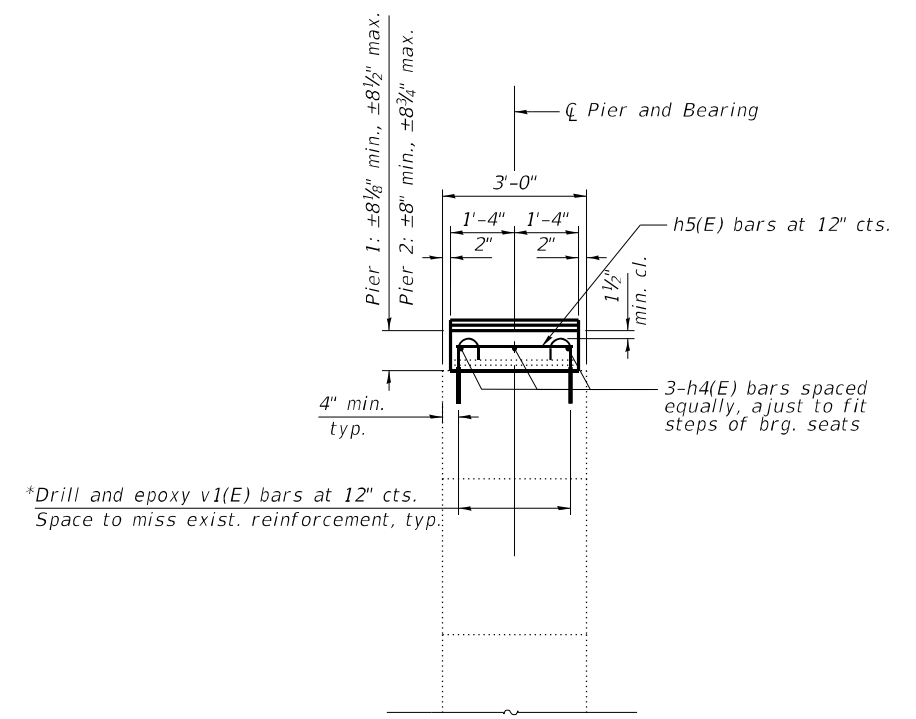
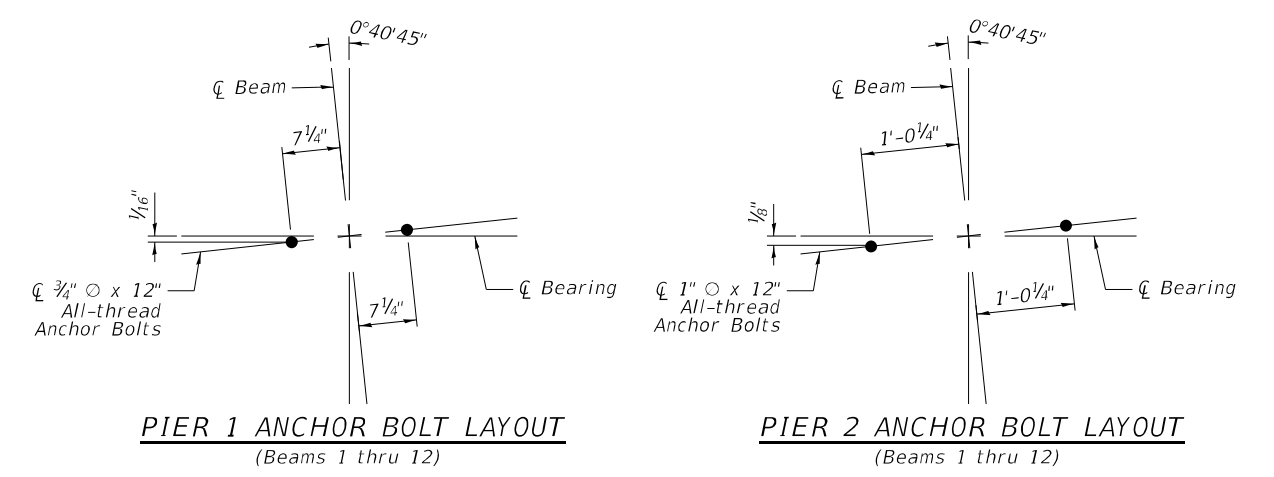
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TOP PLAN
 (Pier 1 Shown)
 (Pier 2 Similar)

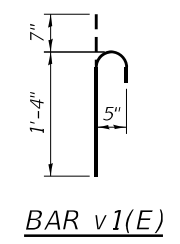


ELEVATION
 (Looking North on Pier 1)
 (Looking South on Pier 2)



Section A-A

Notes:
 *Bar v1(E) shall be drilled and grouted according to Section 584 of the standard specifications to 9" min. embedment. Adjust as necessary to miss existing reinforcement.



BAR v1(E)

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h ₄ (E)	6	#5	35'-8"	—
h ₅ (E)	72	#5	2'-4"	—
v ₁ (E)	144	#5	1'-11"	⌋
Reinforcement Bars, Epoxy Coated			Lbs.	690
Concrete Structures			Cu. Yds.	6.1



USER NAME =	clocher	DESIGNED -	CML	REVISED	8/25/2023	CML
		CHECKED -	MBH	REVISED -		
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PLOT DATE =	8/25/2023	CHECKED -	MBH	REVISED -		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CONCRETE CAP EXTENSION DETAILS - PIERS 1 & 2
STRUCTURE NO. 060-0143

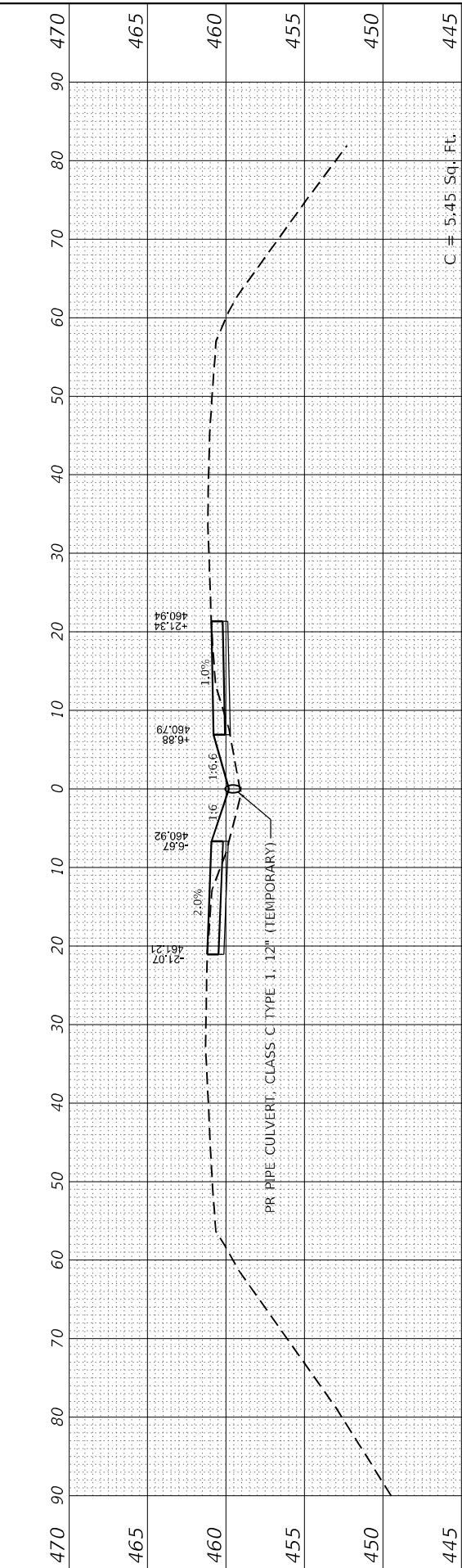
SHEET 28 OF 28 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 76F88				
FED. ROAD DIST. NO. 8 ILLINOIS FED. AID PROJECT				

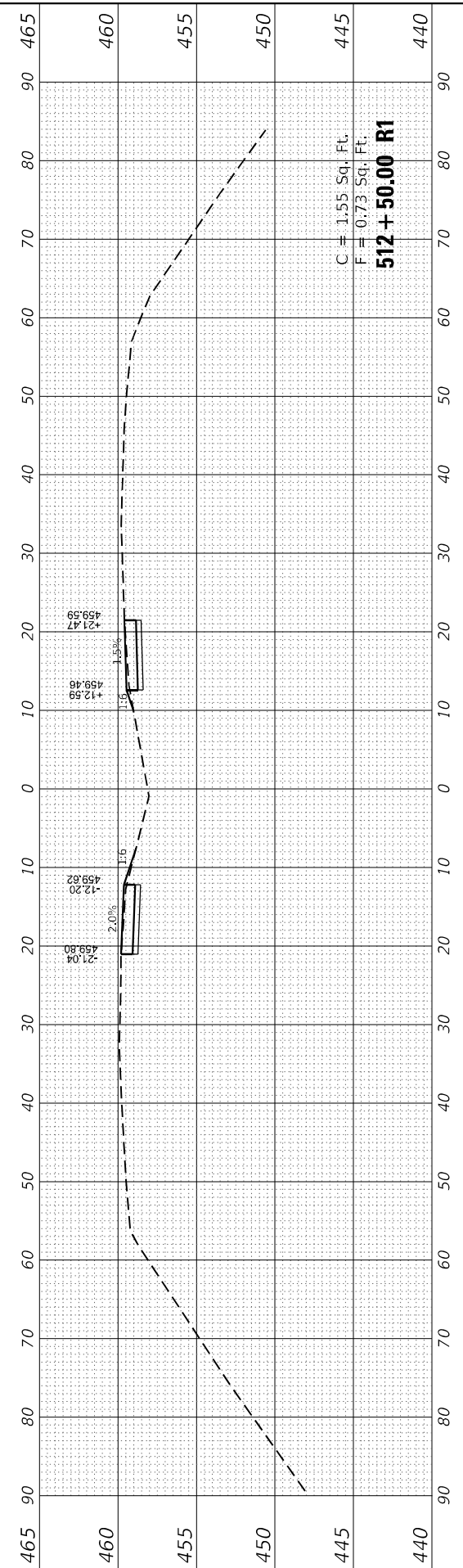
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NOTE BOOK	TEMPLATE		
AREAS CHECKED	AREAS CHECKED		

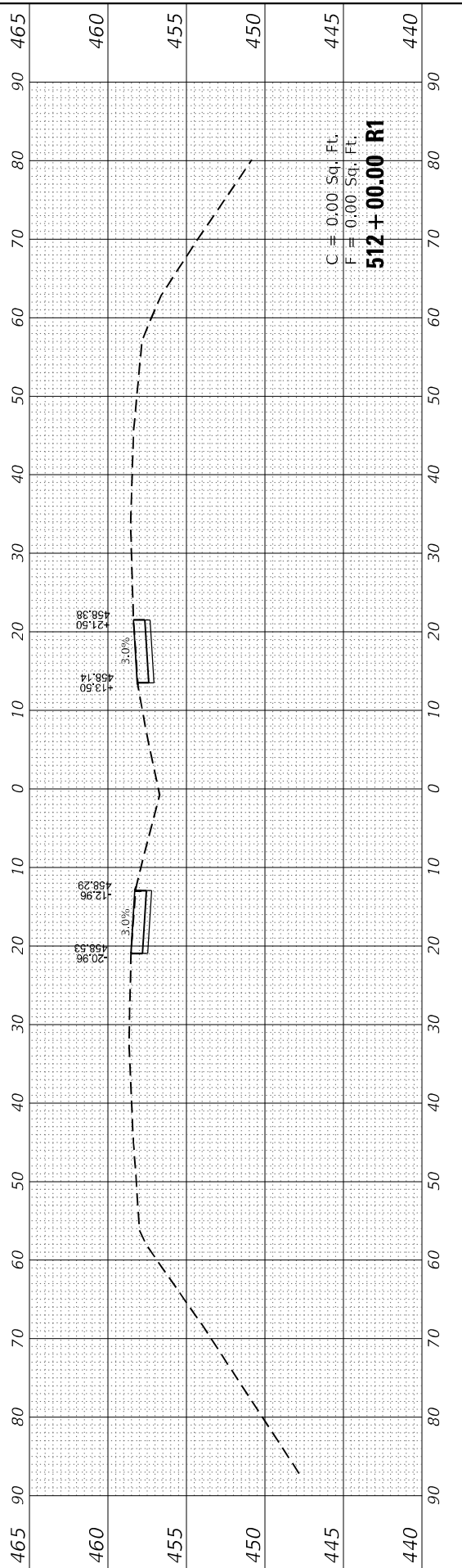
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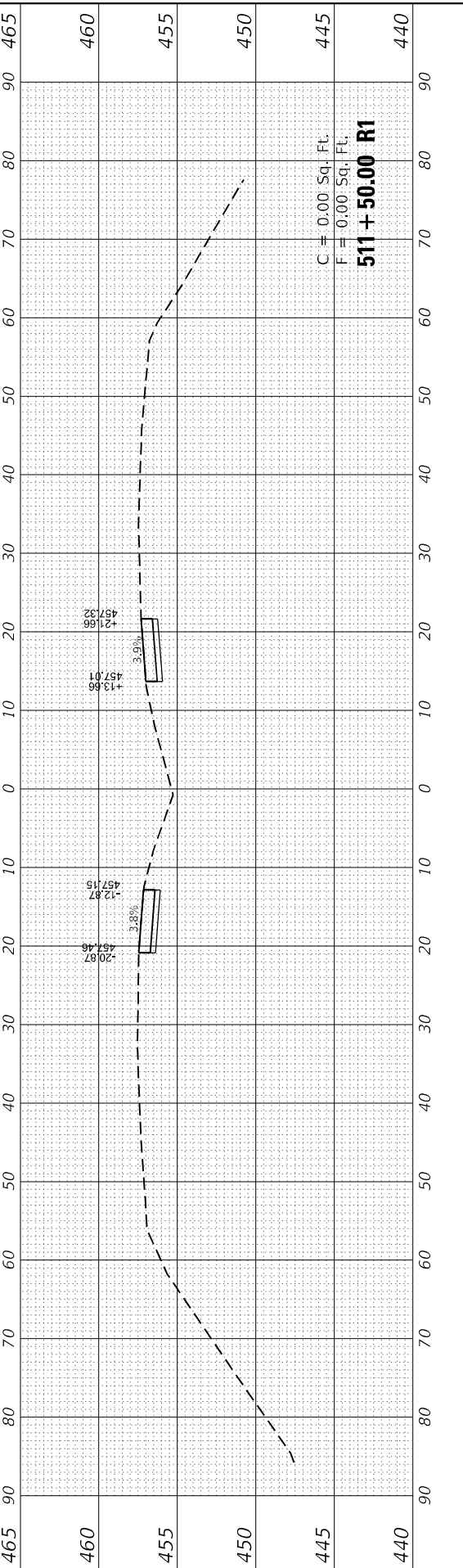
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F = 12.46 Sq. Ft.
513 + 00.00 R1



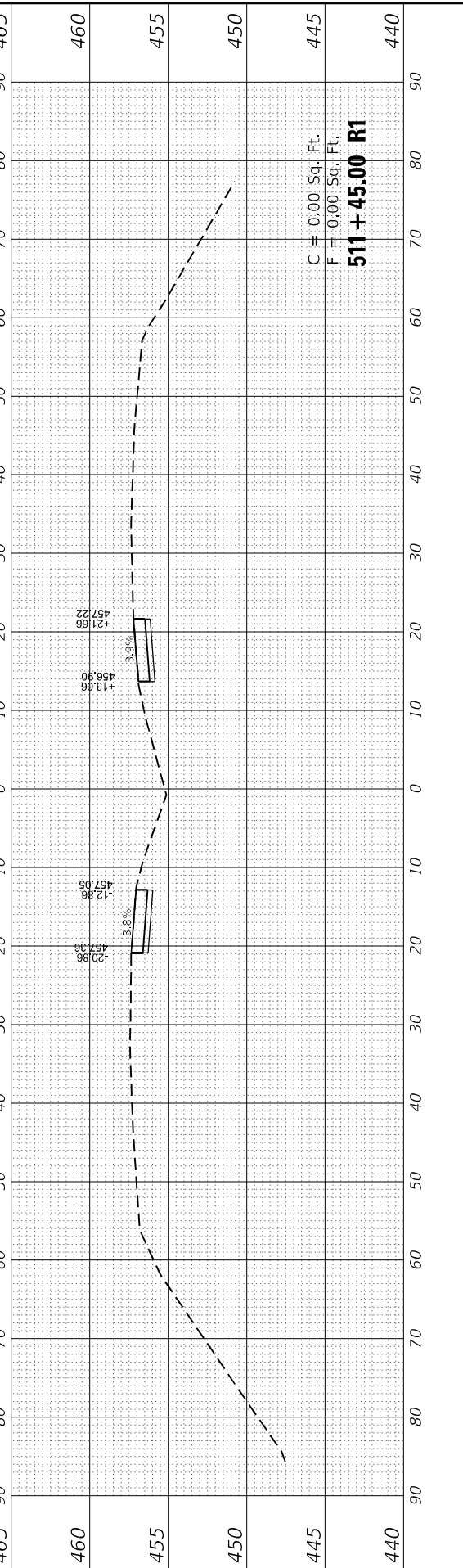
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F = 0.73 Sq. Ft.
512 + 50.00 R1



C = 0.00 Sq. Ft.
F = 0.00 Sq. Ft.
512 + 00.00 R1



C = 0.00 Sq. Ft.
F = 0.00 Sq. Ft.
511 + 50.00 R1



C = 0.00 Sq. Ft.
F = 0.00 Sq. Ft.
511 + 45.00 R1

BA BENTON & ASSOCIATES, INC.
CONSULTING ENGINEERS / LAND SURVEYORS
1970 W. 51st LAFAYETTE AV.
JACKSONVILLE, IL 62650
PHONE: 217-245-4146 FAX: 217-245-4149
ILLINOIS DESIGN FIRM REGISTRATION NO. 134-000851

USER NAME =	druhnll
DESIGNED -	DSR
DRAWN -	DSR
CHECKED -	WJS
DATE -	06/27/2023

REVISED -	
REVISED -	
REVISED -	
REVISED -	

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SCALE:	SHEET 1 OF 6 SHEETS	STA. 511+45.00 R1 TO STA. 513+00.00 R1
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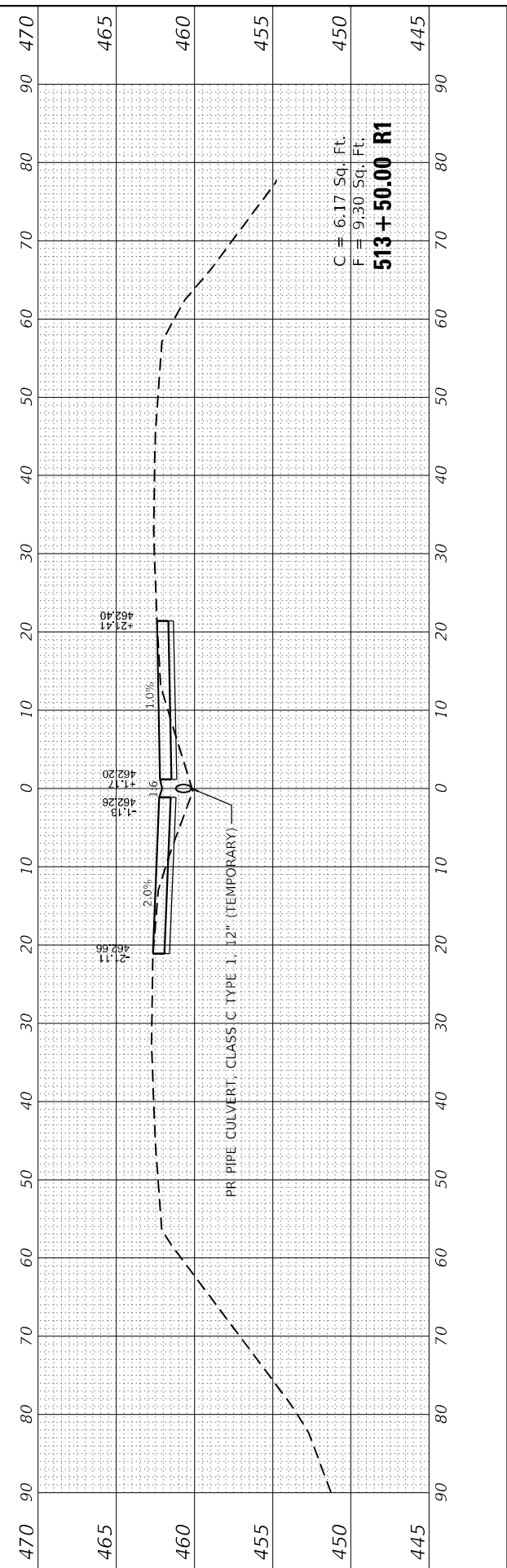
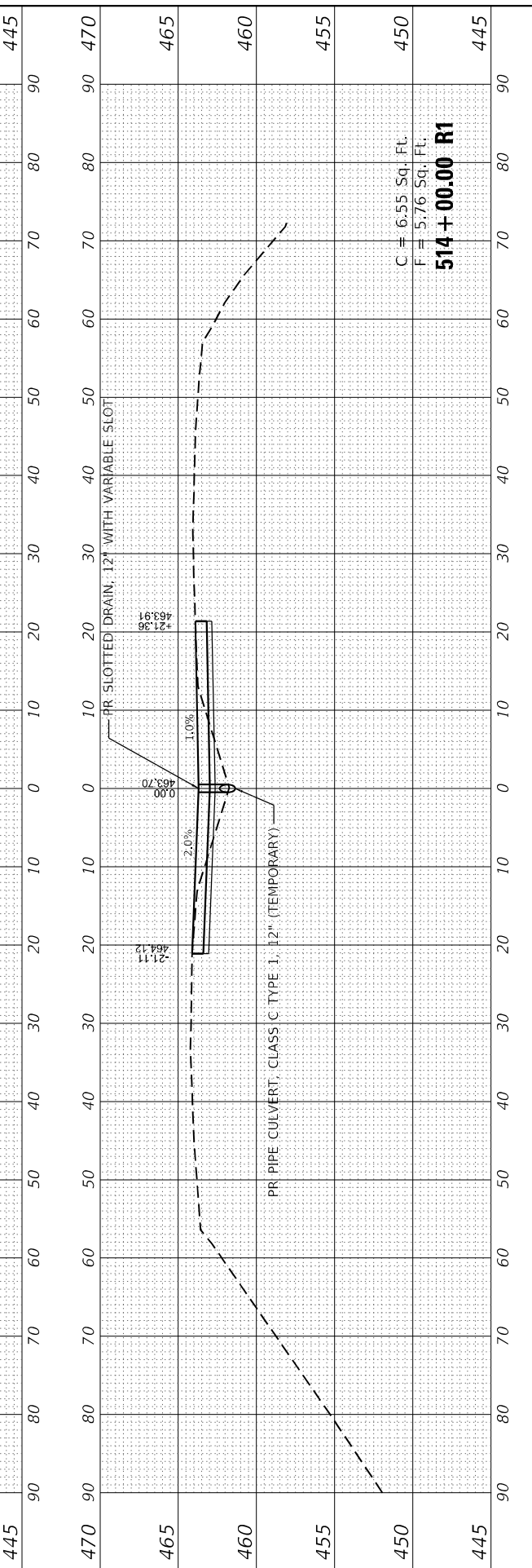
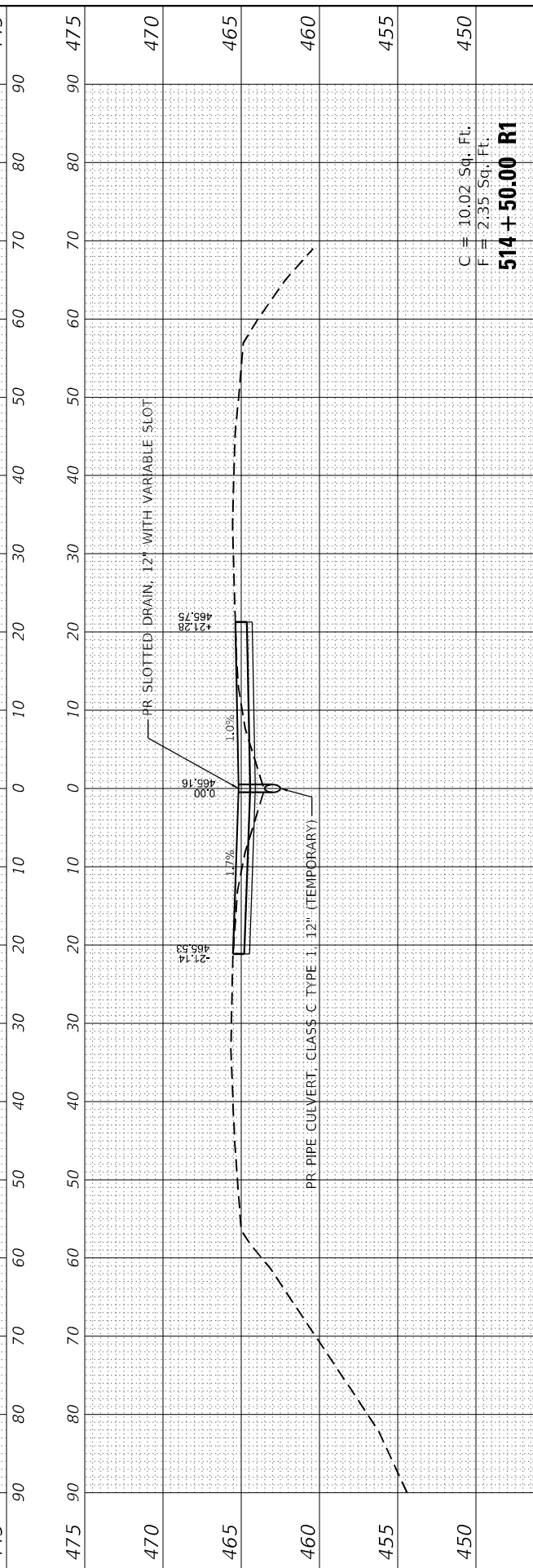
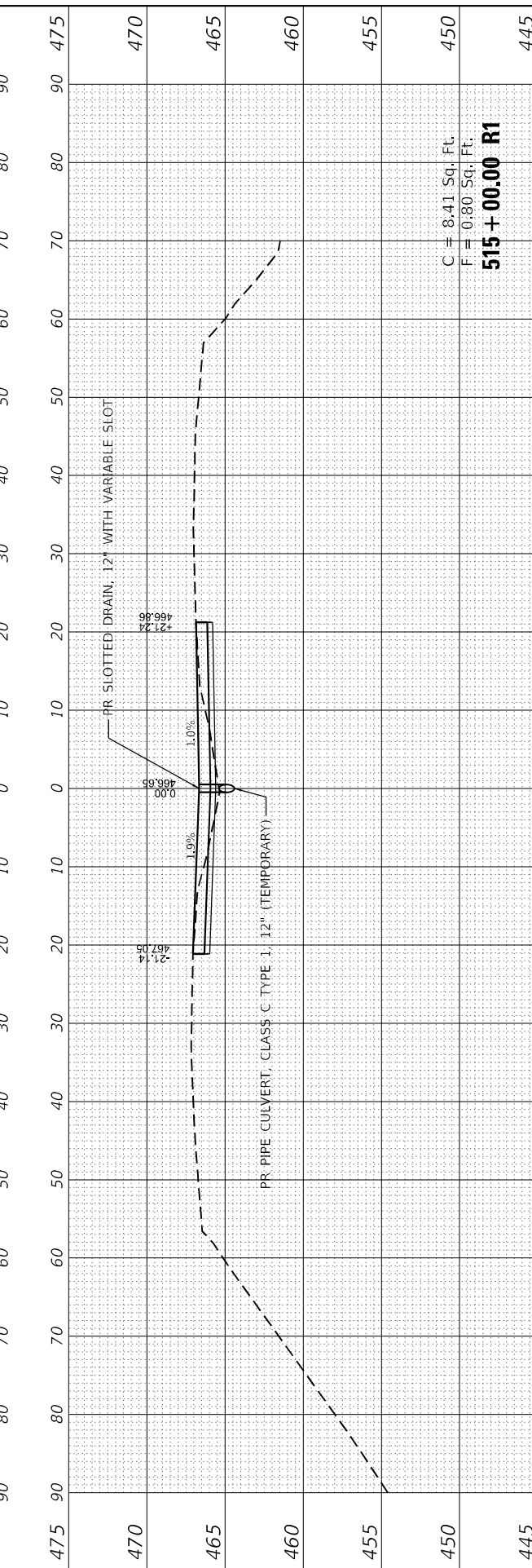
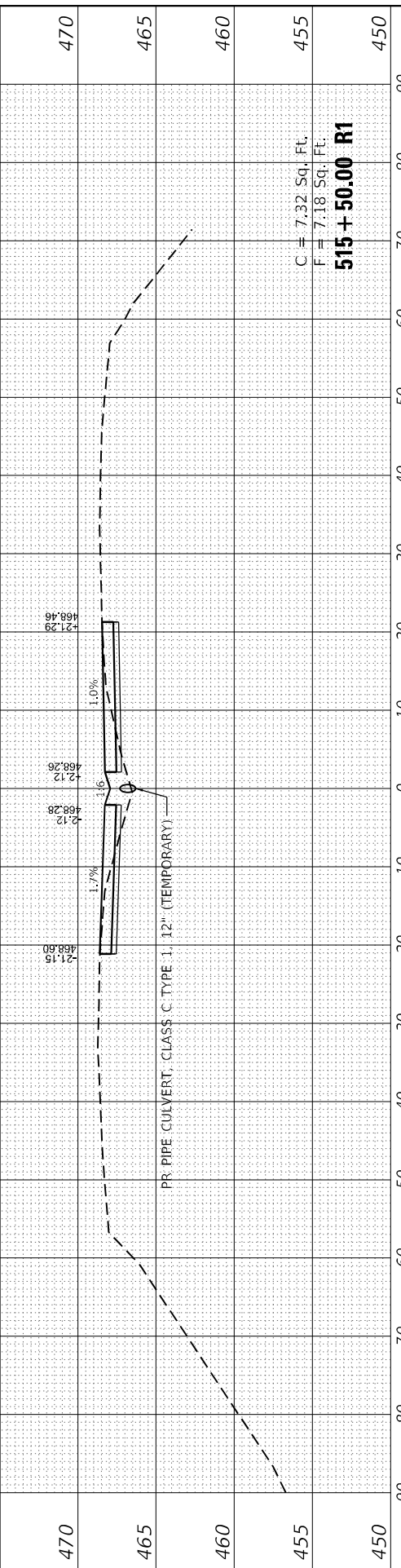
CROSS SECTIONS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8885	BI	MADISON	76	71
CONTRACT NO. 76F88				
ILLINOIS FED. AID PROJECT				

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NOTE BOOK	PLOTTED		
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ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
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 1970 W. 51st LAFAYETTE AV.
 ROCKFORD, IL 61109
 PHONE: 217-245-4146 FAX: 217-245-4149
 IL DESIGN FIRM REGISTRATION NO. 134-000851

USER NAME =	druhnll
DESIGNED -	DSR
DRAWN -	D5R
CHECKED -	WJS
DATE -	06/27/2023

REVISED -	
REVISED -	
REVISED -	
REVISED -	

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

CROSS SECTIONS

SCALE: SHEET 2 OF 6 SHEETS STA. 513+50.00 R1 TO STA. 515+50.00 R1

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8885	BI	MADISON	76	72
CONTRACT NO. 76F88				
ILLINOIS FED. AID PROJECT				

FINAL SURVEY NO.	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
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ORIGINAL SURVEY NO.	SURVEYED	BY	DATE
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 1970 WEST LAFAYETTE AV.
 JACKSONVILLE, IL 62650
 PHONE: 217-245-4146 FAX: 217-245-4149
 IL DESIGN FIRM REGISTRATION NO. 134-000853

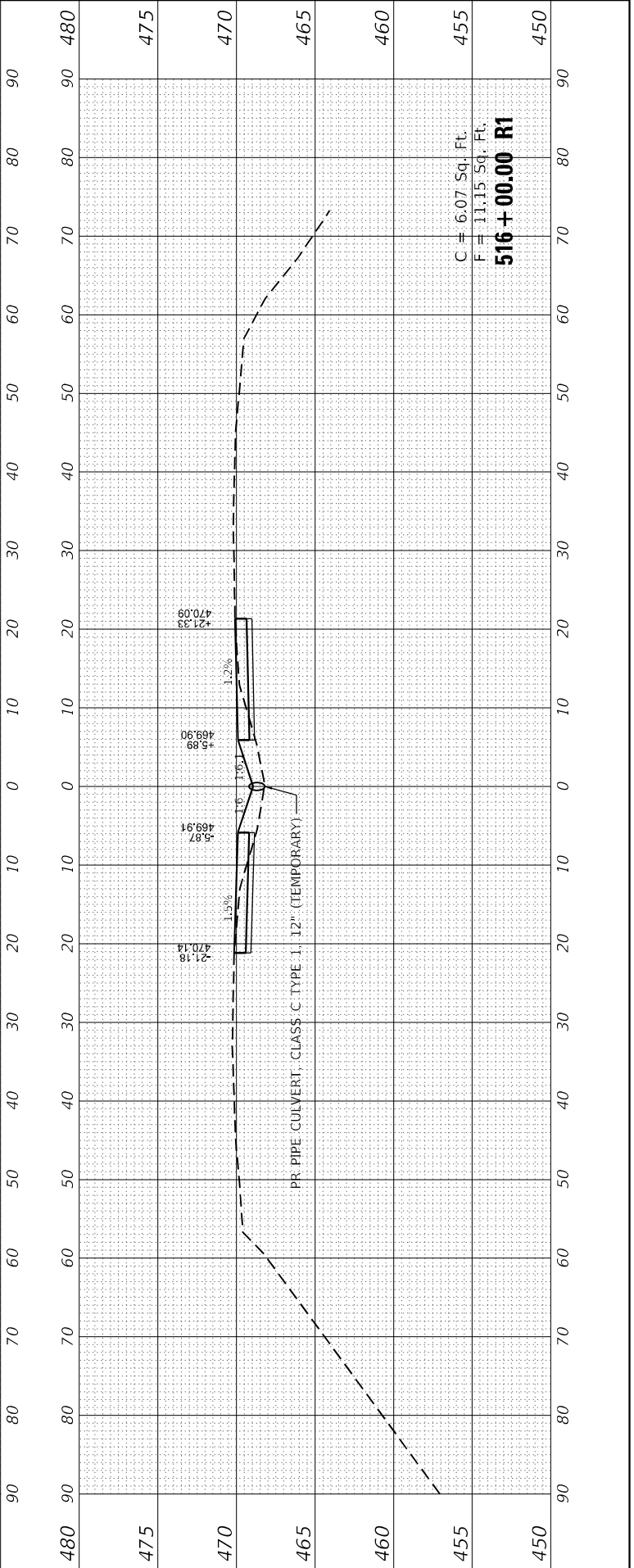
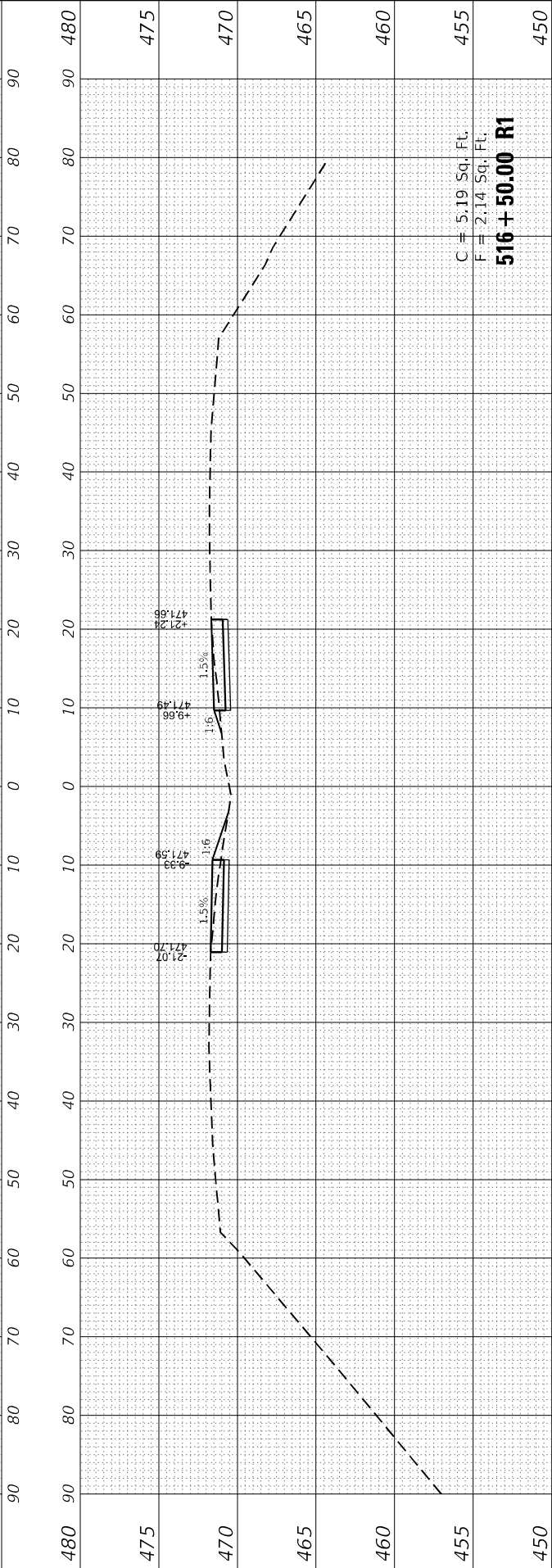
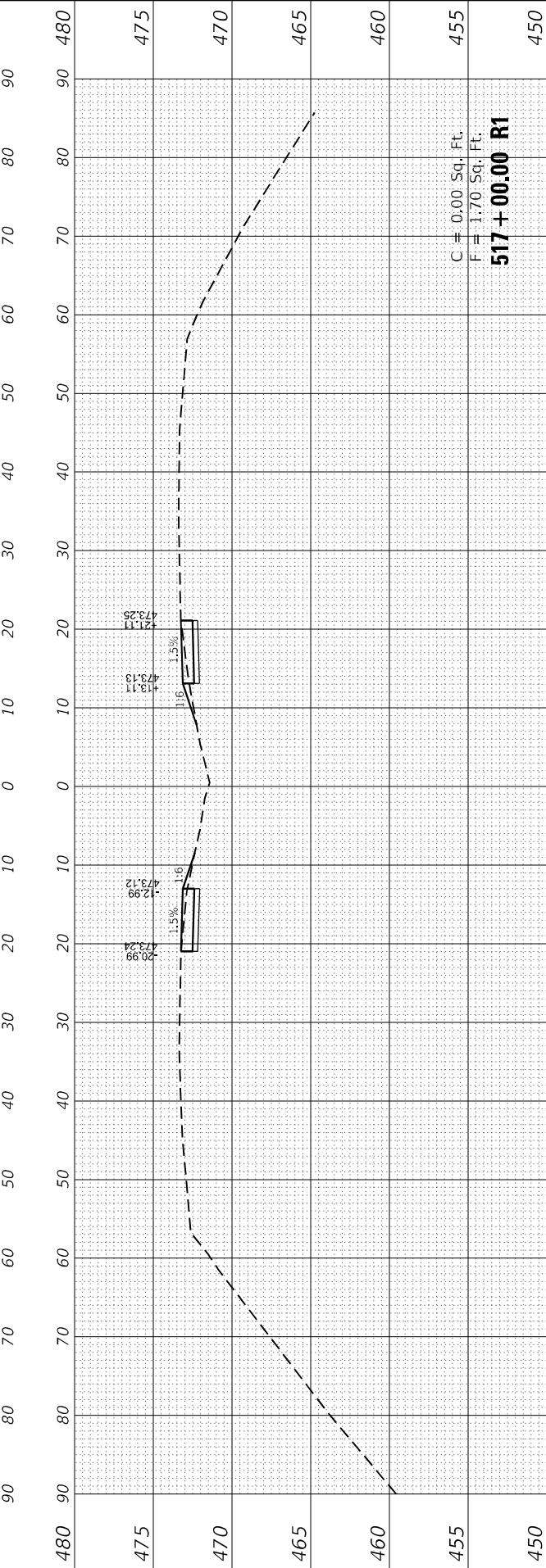
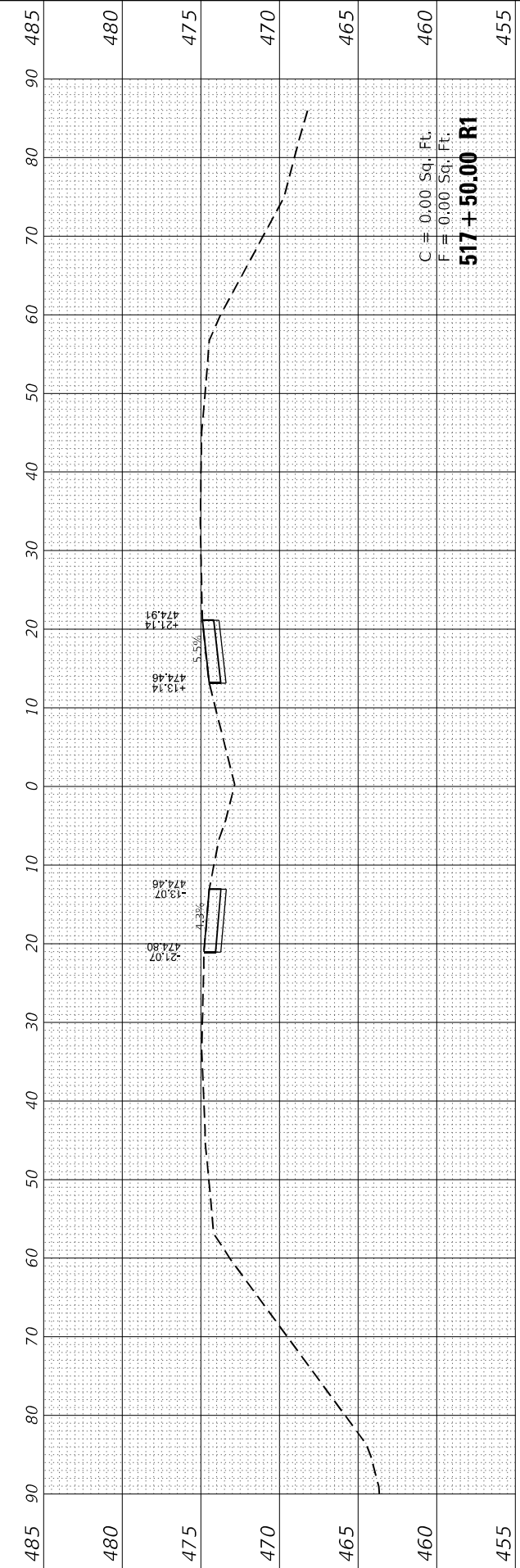
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	DATE - 06/27/2023	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS

SCALE: SHEET 3 OF 6 SHEETS STA. 516+00.00 R1 TO STA. 517+50.00 R1

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8885	BI	MADISON	76	73
CONTRACT NO. 76F88				
ILLINOIS		FED. AID PROJECT		



FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
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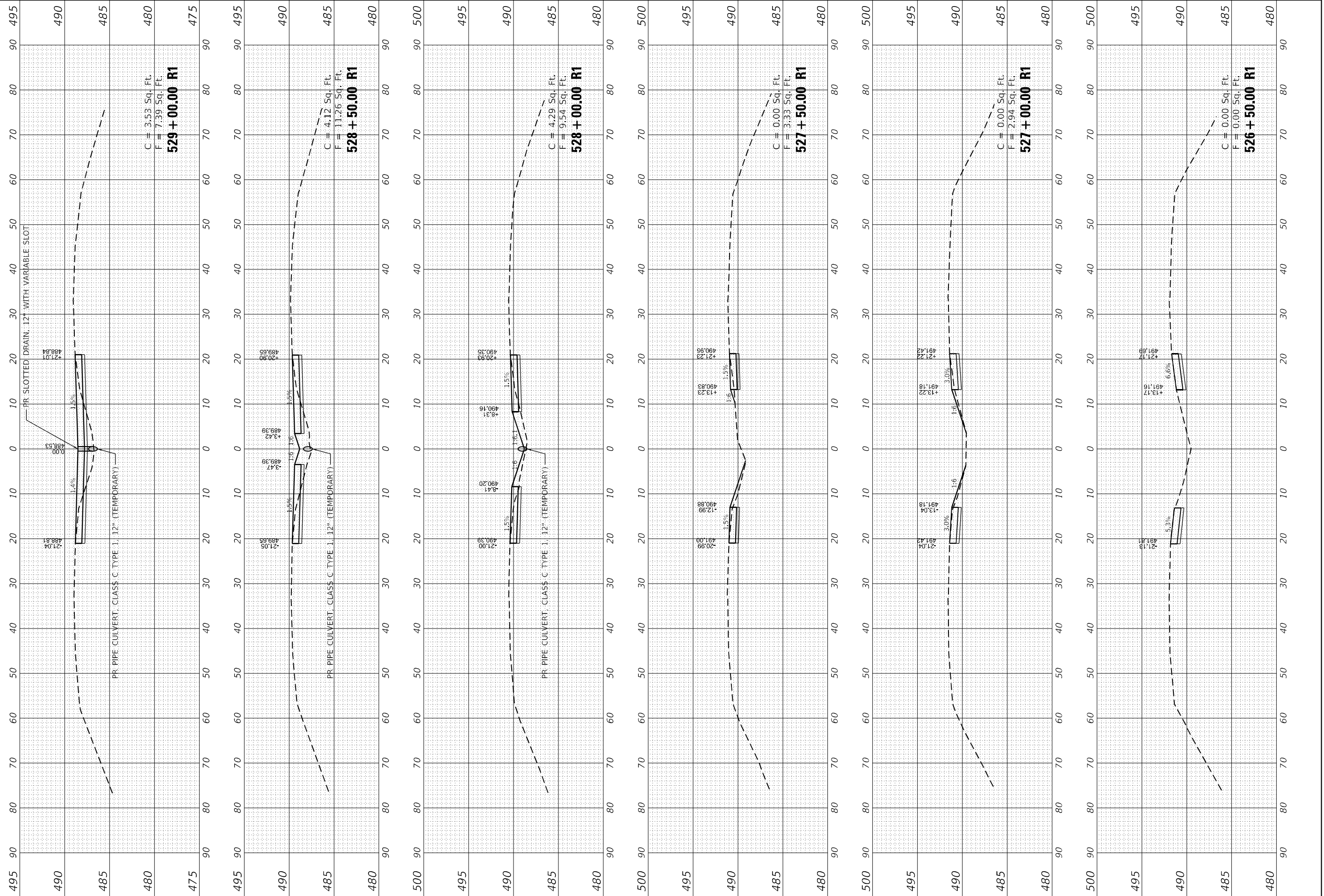
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

CROSS SECTIONS

SCALE: SHEET 4 OF 6 SHEETS STA. 526+50.00 R1 TO STA. 529+00.00 R1

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8885	BI	MADISON	76	74
CONTRACT NO. 76F88				
ILLINOIS FED. AID PROJECT				



FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
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ORIGINAL SURVEY	SURVEYED	BY	DATE
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1970 WEST LAFAVETTE AV.
JACKSONVILLE, IL 62650
PHONE: 217-245-4146 FAX: 217-245-4149
ILL. DESIGN FIRM REGISTRATION NO. 134-000851

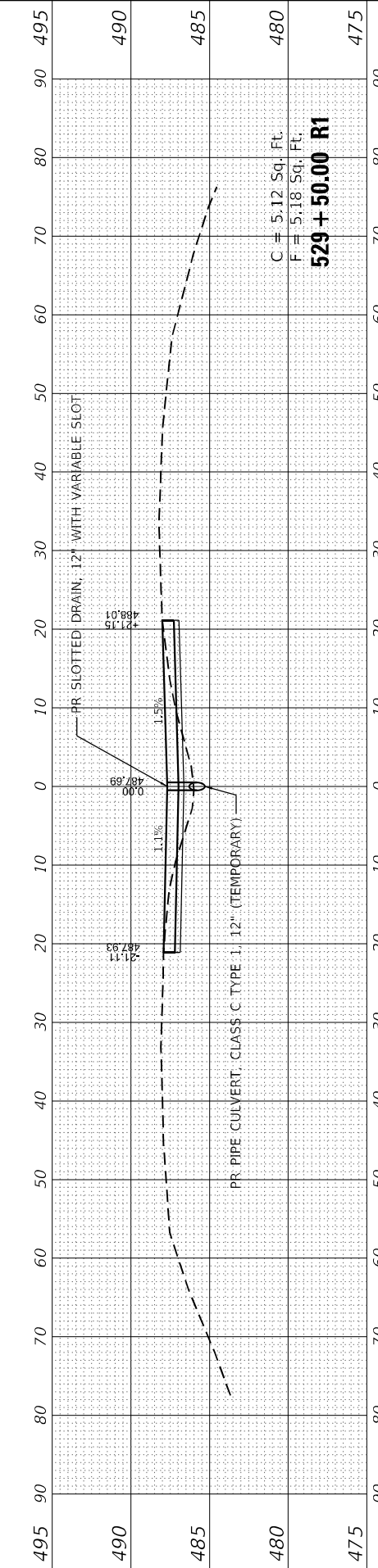
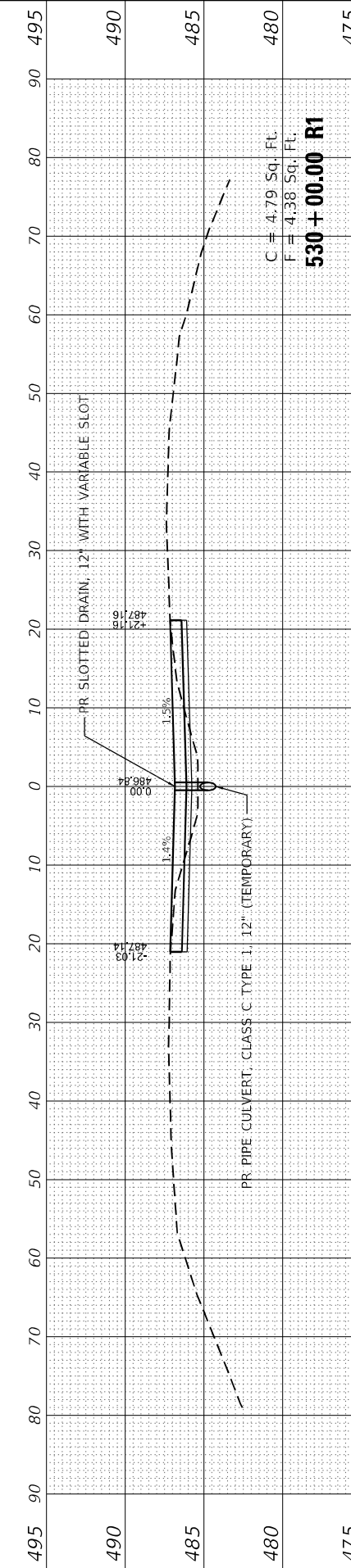
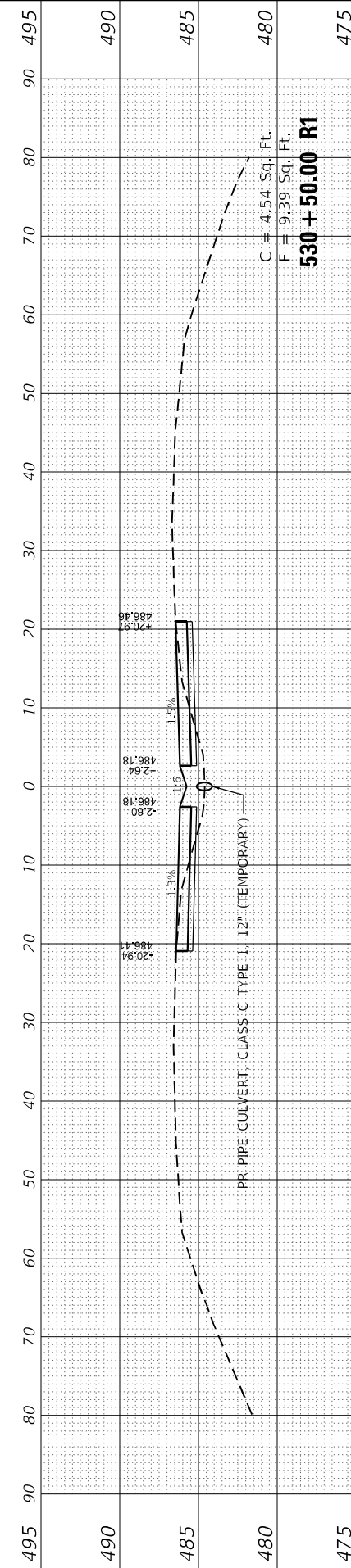
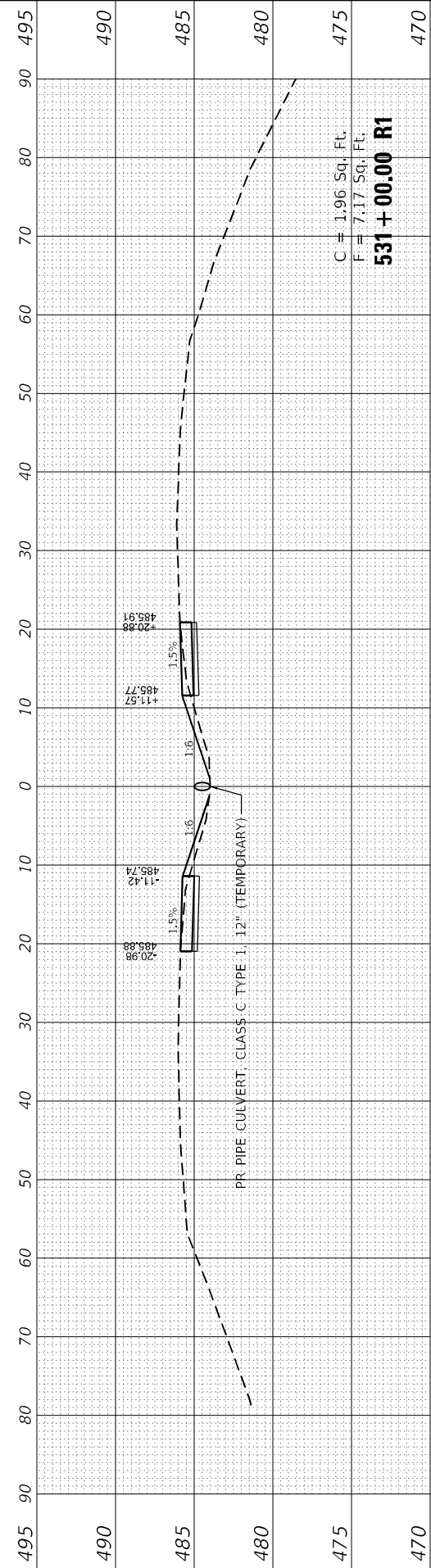
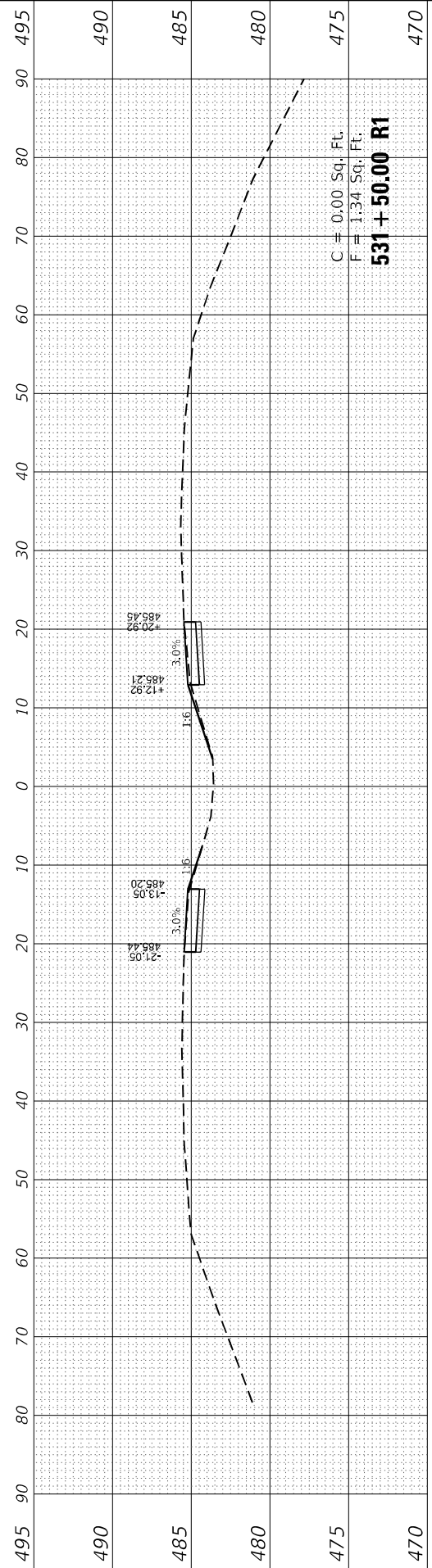
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

CROSS SECTIONS

SCALE: SHEET 5 OF 6 SHEETS STA. 529+50.00 R1 TO STA. 531+50.00 R1

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8885	BI	MADISON	76	75
CONTRACT NO. 76F88				
ILLINOIS FED. AID PROJECT				



FINAL SURVEY NO.	SURVEYED PLOTTED AREAS CHECKED	BY	DATE

ORIGINAL SURVEY NO.	SURVEYED PLOTTED AREAS CHECKED	BY	DATE

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BA BENTON & ASSOCIATES, INC.
CONSULTING ENGINEERS / LAND SURVEYORS
1970 W 51st LAFAYETTE AV.
JACKSONVILLE, IL 62650
PHONE: 217-245-4146 FAX: 217-245-4149
ILL. DESIGN FIRM REGISTRATION NO. 134-000853

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		DATE -	06/27/2023	REVISED -	

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

CROSS SECTIONS

SCALE: SHEET 6 OF 6 SHEETS STA. 532+00.00 R1 TO STA. 532+10.00 R1

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8885	BI	MADISON	76	76
CONTRACT NO. 76F88			ILLINOIS FED. AID PROJECT	

