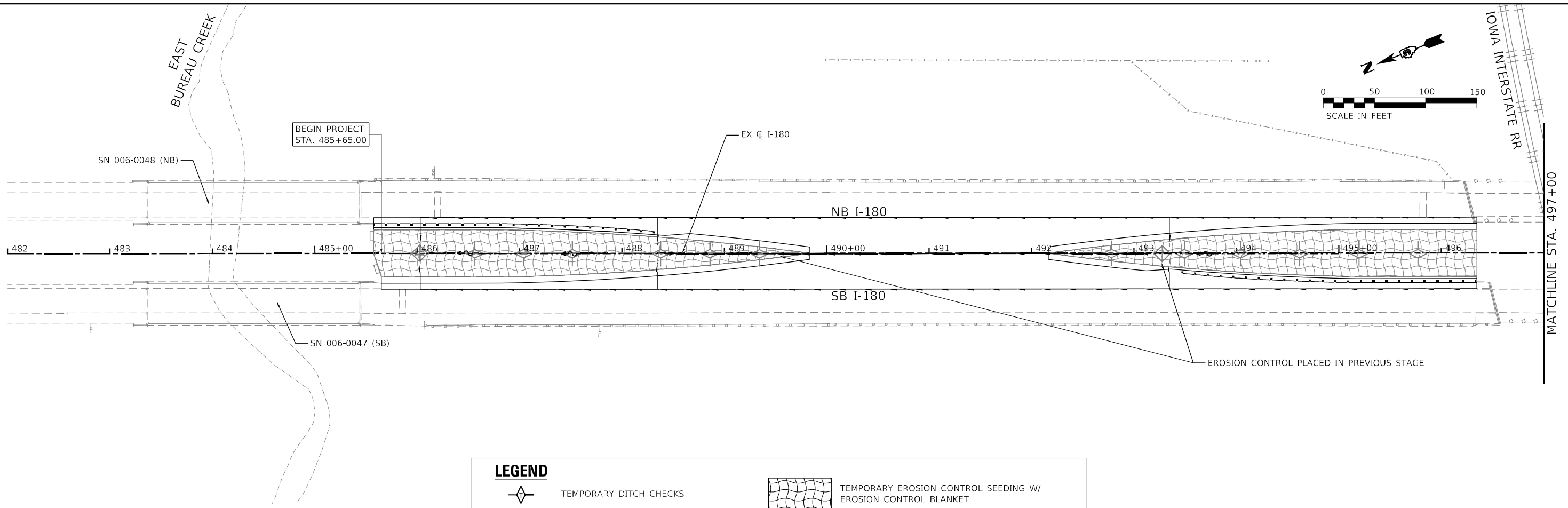
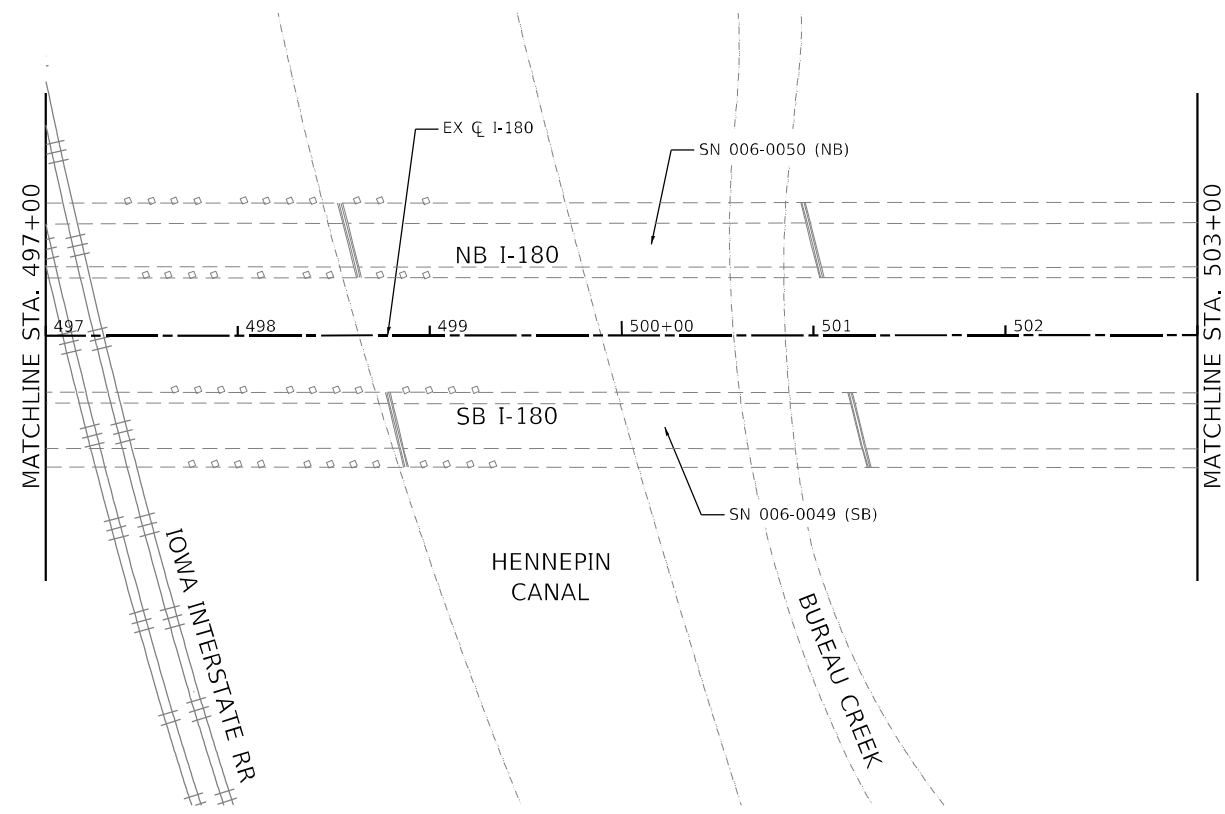


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LEGEND

	TEMPORARY DITCH CHECKS		TEMPORARY EROSION CONTROL SEEDING W/ EROSION CONTROL BLANKET
	PERIMETER EROSION BARRIER		TEMPORARY EROSION CONTROL SEEDING W/ HEAVY DUTY EROSION CONTROL BLANKET
	INLET AND PIPE PROTECTION		



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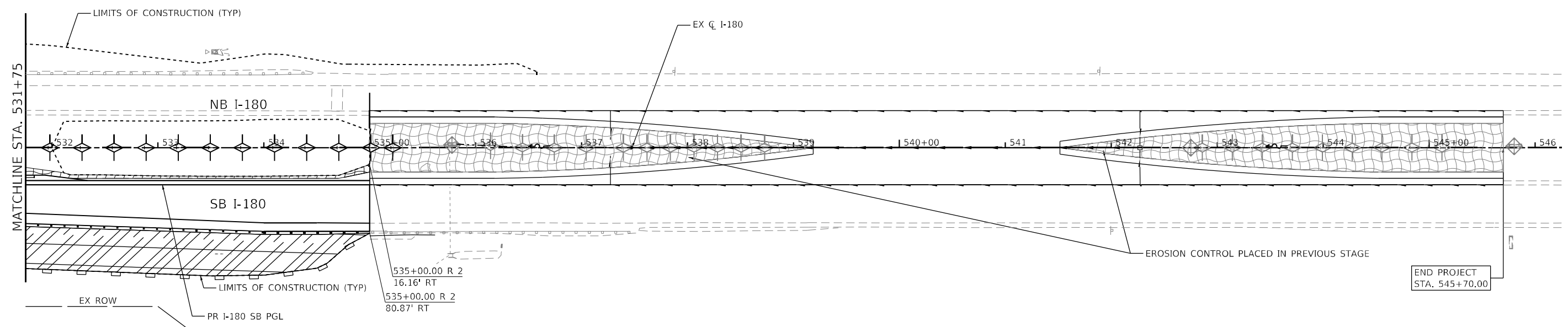
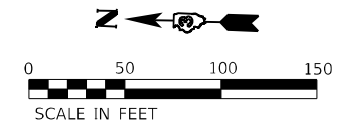
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PLOT DATE = 1/12/2024	DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**FAI ROUTE 180 (I-180)
 STAGE 2 EROSION CONTROL PLAN**

SCALE: 1" = 50' SHEET 1 OF 3 SHEETS STA. 485+65 TO STA. 503+00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
180	[(06-2B-1) & (06-2HB-1)]BR	BUREAU	327	101
CONTRACT NO. 66K66				
ILLINOIS FED. AID PROJECT				



LEGEND

- ◆
TEMPORARY DITCH CHECKS
- ▬
PERIMETER EROSION BARRIER
- ◆
INLET AND PIPE PROTECTION
- ▨
TEMPORARY EROSION CONTROL SEEDING W/
EROSION CONTROL BLANKET
- ▩
TEMPORARY EROSION CONTROL SEEDING W/
HEAVY DUTY EROSION CONTROL BLANKET

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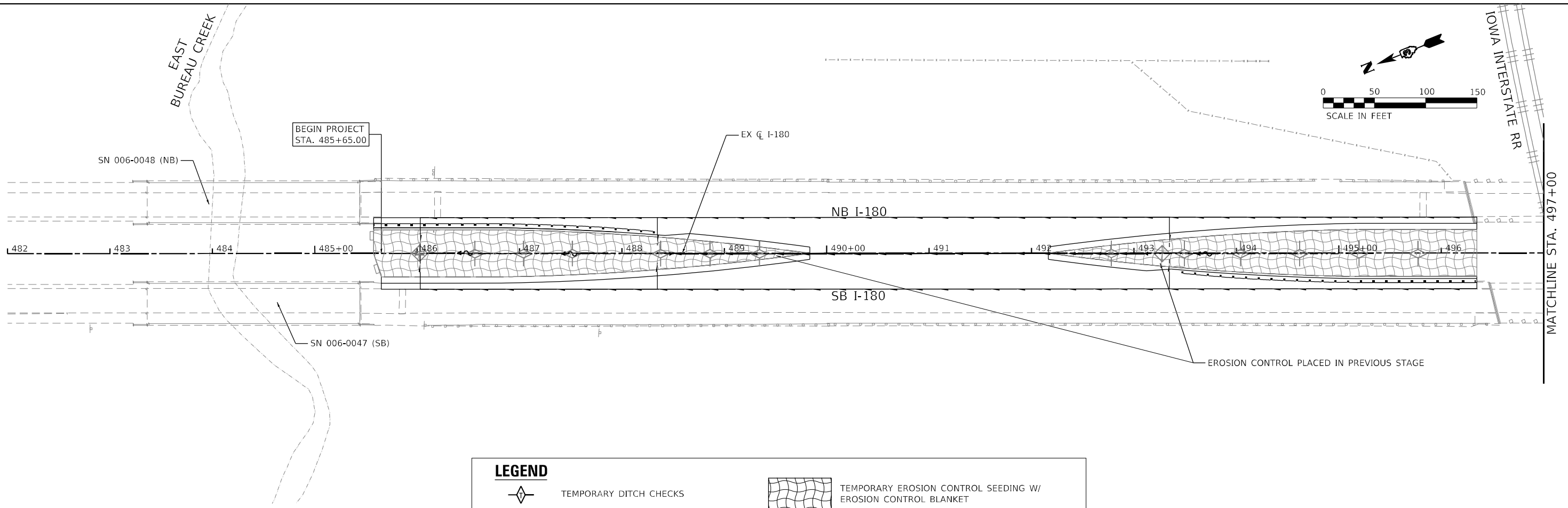
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PLOT DATE = 1/12/2024	DATE -	REVISED -	

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

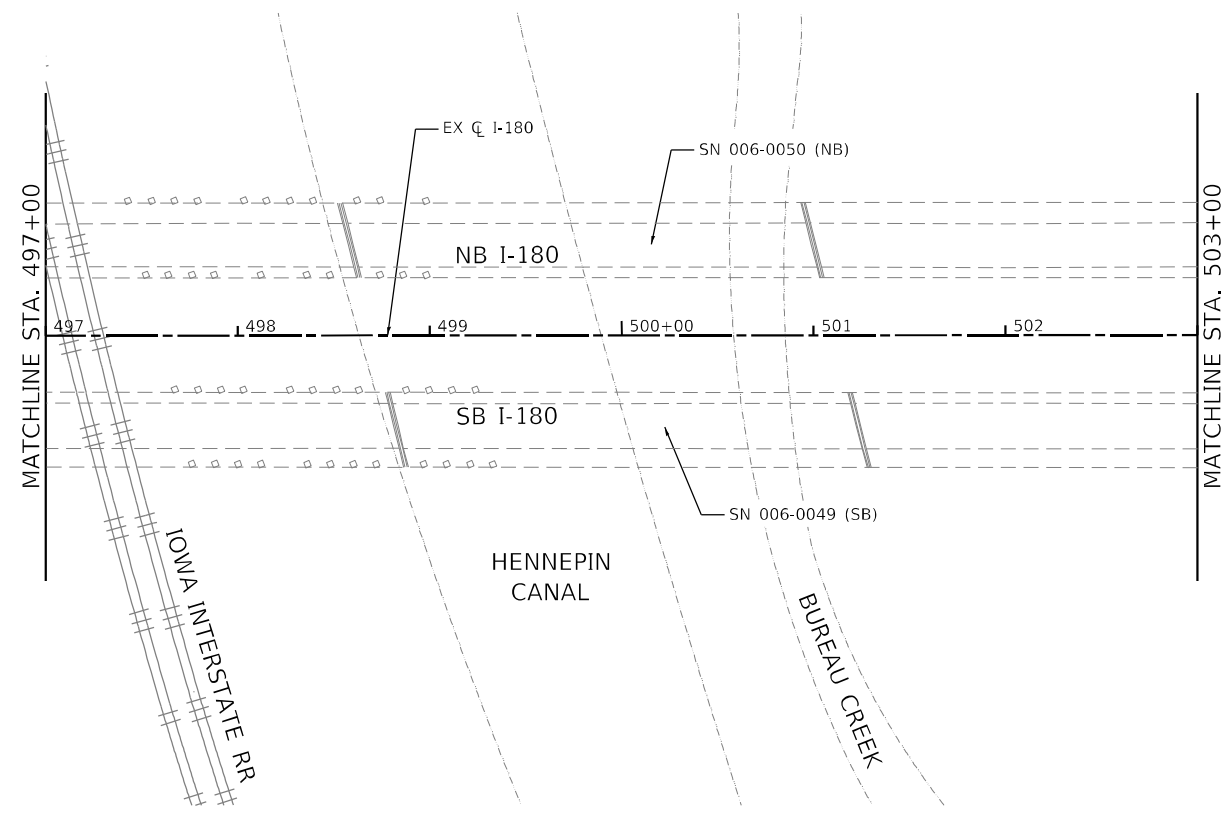
FAI ROUTE 180 (I-180) STAGE 2 EROSION CONTROL PLAN			
SCALE: 1" = 50'	SHEET 3 OF 3 SHEETS	STA. 531+75 TO STA. 545+70	

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
180	[(06-2B-1) & (06-2HB-1)]BR	BUREAU	327	103
CONTRACT NO. 66K66				
ILLINOIS FED. AID PROJECT				

MODEL: Default
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LEGEND	
	TEMPORARY DITCH CHECKS
	PERIMETER EROSION BARRIER
	INLET AND PIPE PROTECTION
	TEMPORARY EROSION CONTROL SEEDING W/ EROSION CONTROL BLANKET
	TEMPORARY EROSION CONTROL SEEDING W/ HEAVY DUTY EROSION CONTROL BLANKET



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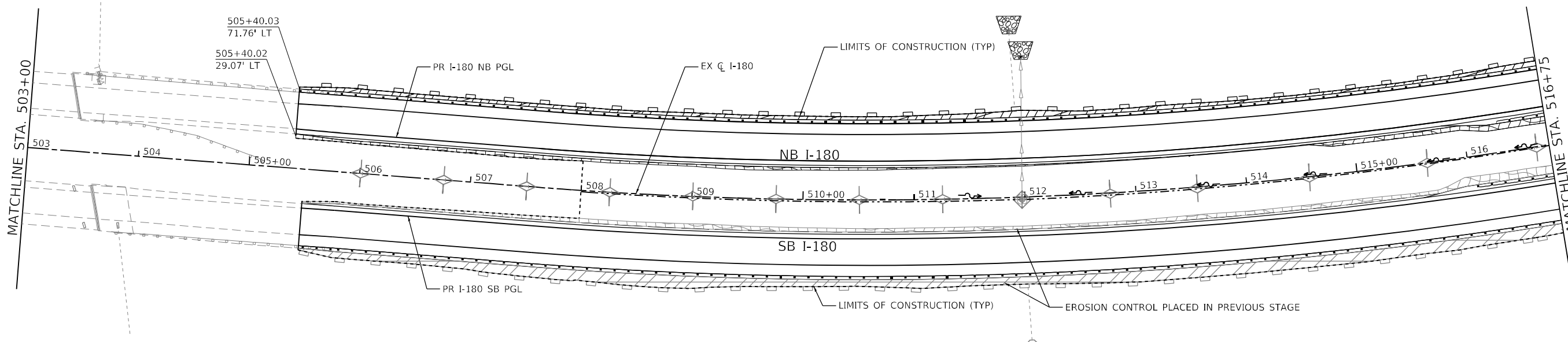
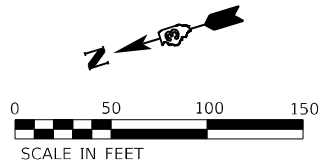
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PLOT DATE = 1/12/2024	DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**





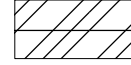
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 STAGE 3 EROSION CONTROL PLAN**

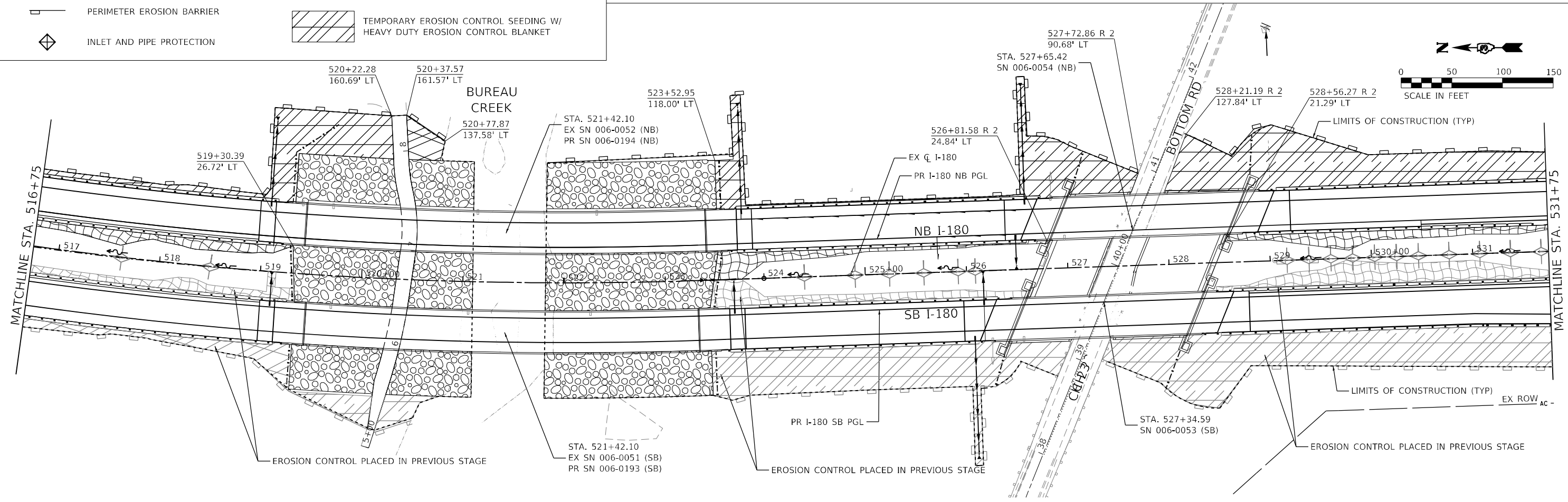
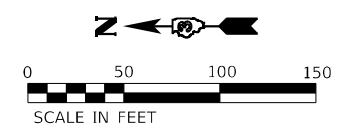
SCALE: 1" = 50' SHEET 1 OF 3 SHEETS STA. 485+65 TO STA. 503+00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
180	[(06-2B-1) & (06-2HB-1)]BR	BUREAU	327	104
CONTRACT NO. 66K66			ILLINOIS FED. AID PROJECT	



LEGEND

-  TEMPORARY DITCH CHECKS
-  PERIMETER EROSION BARRIER
-  INLET AND PIPE PROTECTION
-  TEMPORARY EROSION CONTROL SEEDING W/
EROSION CONTROL BLANKET
-  TEMPORARY EROSION CONTROL SEEDING W/
HEAVY DUTY EROSION CONTROL BLANKET



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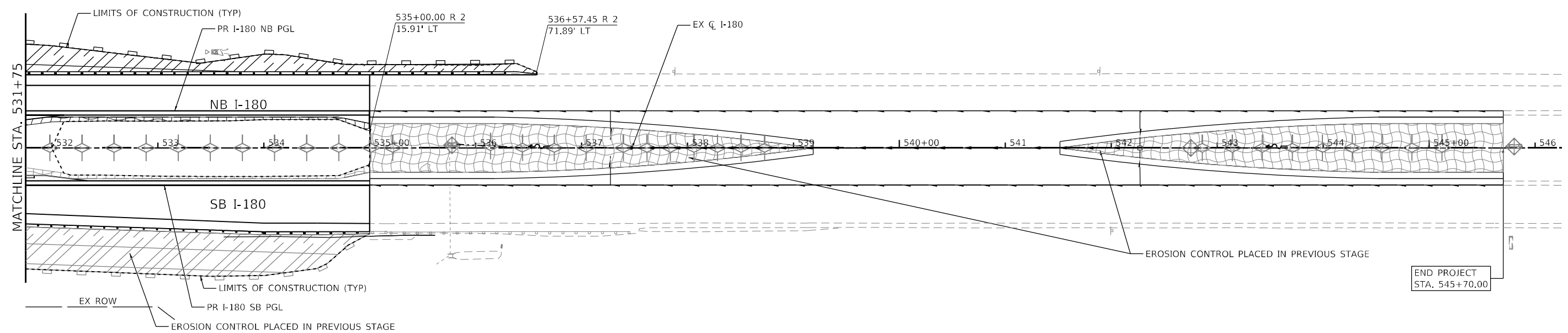
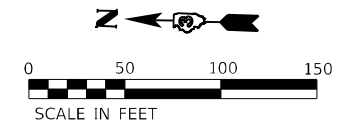


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




**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

FAI ROUTE 180 (I-180) STAGE 3 EROSION CONTROL PLAN			
SCALE: 1" = 50'	SHEET 2	OF 3 SHEETS	STA. 503+00 TO STA. 531+75

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
180	[(06-2B-1) & (06-2HB-1)]BR	BUREAU	327	105
CONTRACT NO. 66K66				
ILLINOIS FED. AID PROJECT				



LEGEND

-  TEMPORARY DITCH CHECKS
-  PERIMETER EROSION BARRIER
-  INLET AND PIPE PROTECTION
-  TEMPORARY EROSION CONTROL SEEDING W/
EROSION CONTROL BLANKET
-  TEMPORARY EROSION CONTROL SEEDING W/
HEAVY DUTY EROSION CONTROL BLANKET

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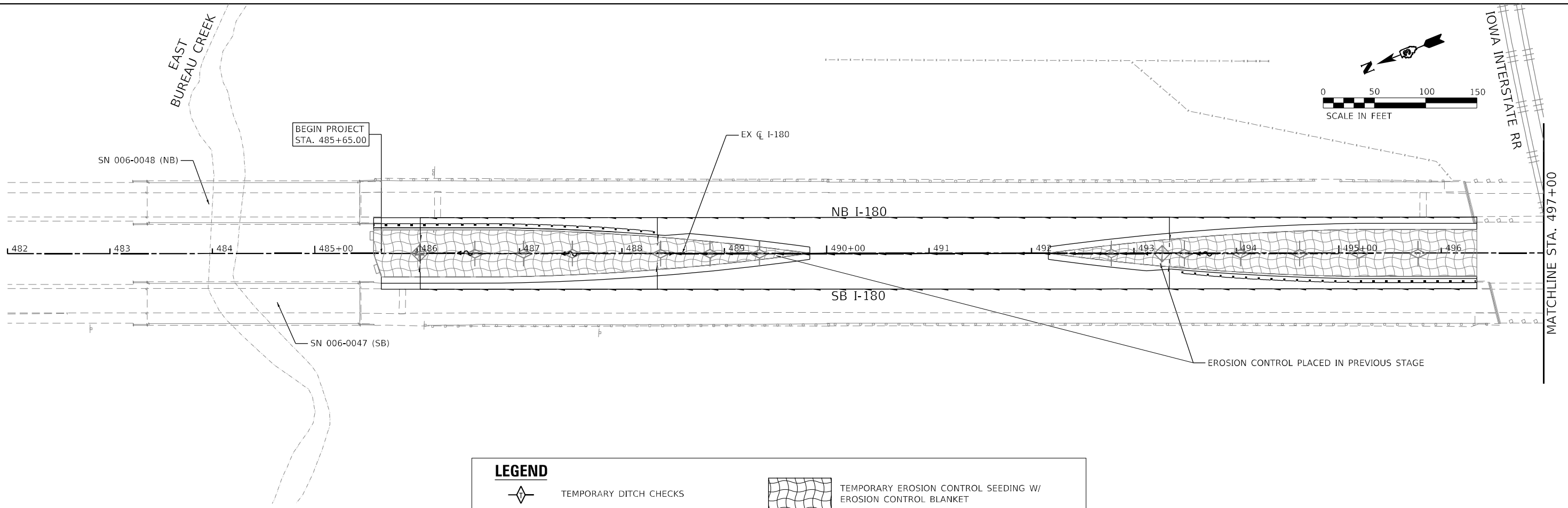
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PLOT DATE = 1/12/2024	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

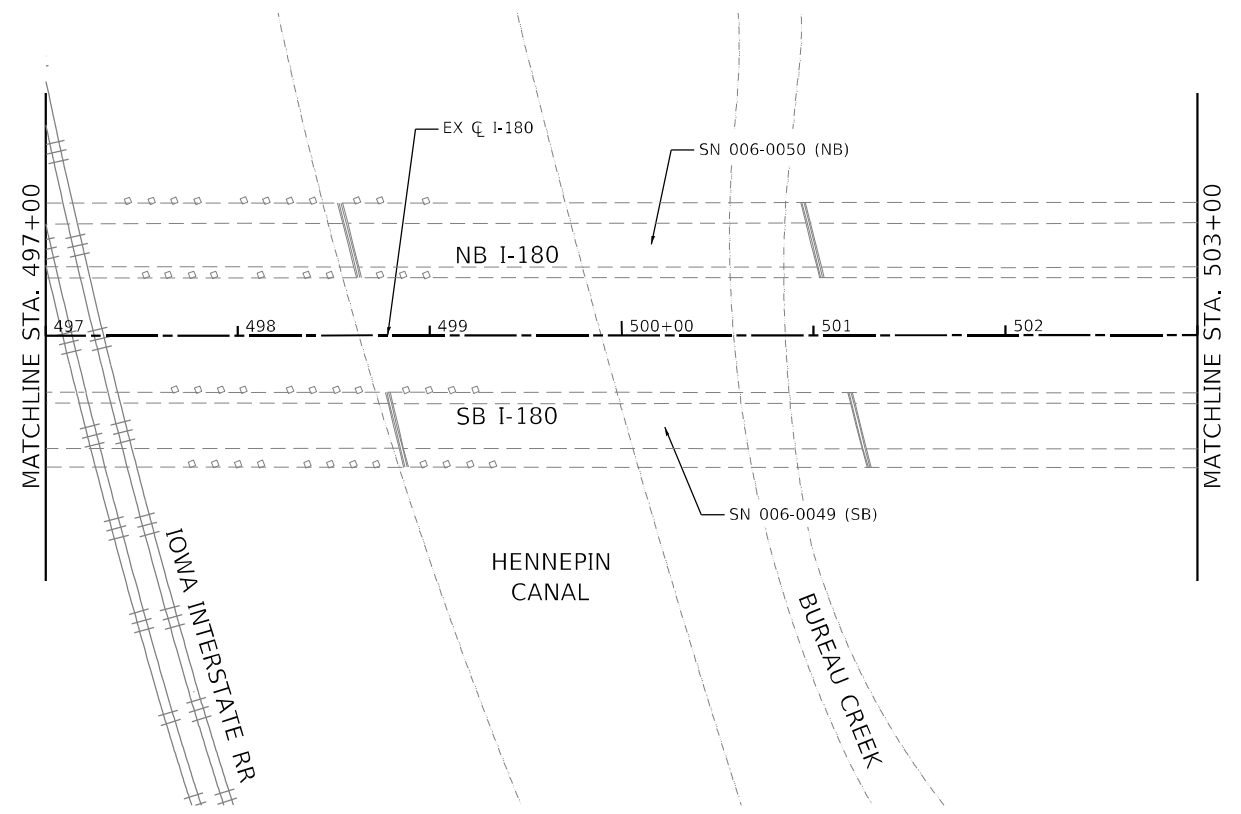
FAI ROUTE 180 (I-180) STAGE 3 EROSION CONTROL PLAN			
SCALE: 1" = 50'	SHEET 3	OF 3 SHEETS	STA. 531+75 TO STA. 545+70

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
180	[(06-2B-1) & (06-2HB-1)]BR	BUREAU	327	106
CONTRACT NO. 66K66				
ILLINOIS FED. AID PROJECT				

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LEGEND	
	TEMPORARY DITCH CHECKS
	PERIMETER EROSION BARRIER
	INLET AND PIPE PROTECTION
	TEMPORARY EROSION CONTROL SEEDING W/ EROSION CONTROL BLANKET
	TEMPORARY EROSION CONTROL SEEDING W/ HEAVY DUTY EROSION CONTROL BLANKET



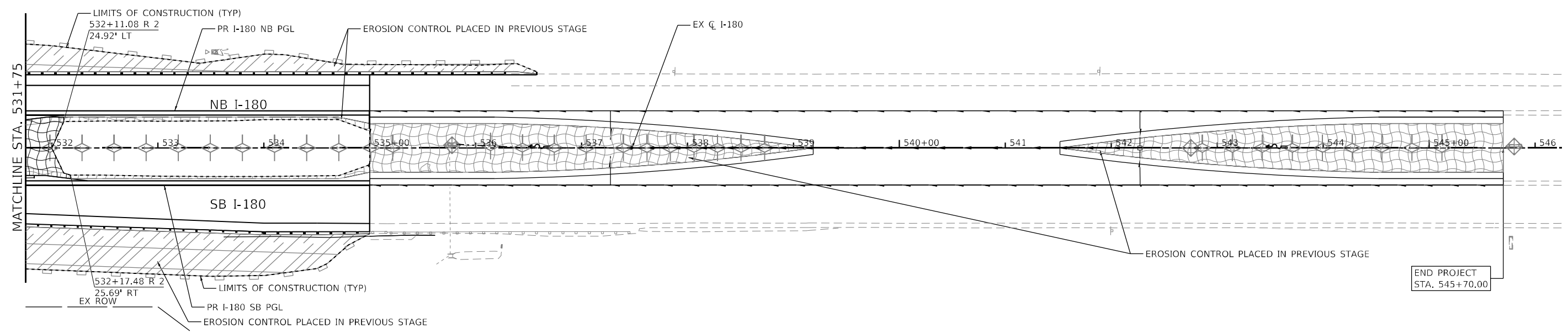
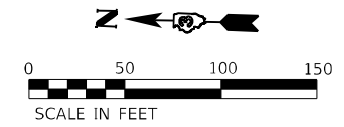
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 Civil Engineering Design

USER NAME = RGall	DESIGNED -	REVISED -
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PLOT DATE = 1/12/2024	DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

FAI ROUTE 180 (I-180) POST STAGE EROSION CONTROL PLAN		
SCALE: 1" = 50'	SHEET 1 OF 3 SHEETS	STA. 485+65 TO STA. 503+00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
180	[(06-2B-1) & (06-2HB-1)]BR	BUREAU	327	107
CONTRACT NO. 66K66				
ILLINOIS FED. AID PROJECT				



LEGEND

- TEMPORARY DITCH CHECKS
- PERIMETER EROSION BARRIER
- INLET AND PIPE PROTECTION
- TEMPORARY EROSION CONTROL SEEDING W/
EROSION CONTROL BLANKET
- TEMPORARY EROSION CONTROL SEEDING W/
HEAVY DUTY EROSION CONTROL BLANKET

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PLOT SCALE = 100,0000' / in.	CHECKED -	REVISED -
PLOT DATE = 1/12/2024	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

FAI ROUTE 180 (I-180) POST STAGE EROSION CONTROL PLAN		
SCALE: 1" = 50'	SHEET 3 OF 3 SHEETS	STA. 531+75 TO STA. 545+70

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
180	[(06-2B-1) & (06-2HB-1)]BR	BUREAU	327	109
CONTRACT NO. 66K66				
ILLINOIS FED. AID PROJECT				

EXISTING PIPE SCHEDULE											
PIPE NUMBER	STRUCTURE TYPE	STA	STA	O/S	PIPE CULVERT	CONTROLLED LOW-	REMOVE AND	CONCRETE HEADWALL	STORM SEWERS TO BE	NOTE	
					REMOVAL	STRENGTH MATERIAL	REINSTALL CONCRETE	REMOVAL	CLEANED 24"		
					FOOT	CU YD	HEADWALL FOR PIPE	EACH	FOOT		
							DRAIN				
							EACH				
EX-01	PIPE CULVERT	486+02		LT						24" RCP	
EX-02	PIPE CULVERT	486+00	485+80	LT						24" CMP	
EX-03	PIPE CULVERT	503+86	504+05	RT						18" RCP	
EX-04	PIPE CULVERT	503+59	503+55	LT						18" CMP	
EX-05	PIPE UNDERDRAIN	508+99		LT			1				
EX-06	PIPE UNDERDRAIN	509+03		RT			1				
EX-07	PIPE CULVERT	511+90	511+90	LT/RT						36" RCP	
EX-08	STORM SEWER	511+98	512+01	LT					127	24" RCP	
EX-09	PIPE UNDERDRAIN	513+46		RT			1				
EX-10	PIPE UNDERDRAIN	513+49		LT			1				
EX-11	PIPE CULVERT	519+38	519+32	LT		2.5				12" CMP	
EX-12	PIPE CULVERT	523+14	523+70	LT/RT	54					12" RCP	
EX-13	PIPE UNDERDRAIN	523+40		RT			1				
EX-14	STORM SEWER	526+24	526+21	RT		2.8				12" RCP	
EX-15	STORM SEWER	526+85	526+89	LI		2.9				12" CMP	
EX-16	PIPE UNDERDRAIN	528+42		RT			1				
EX-17	STORM SEWER	529+02		LT	25				227	24" RCP / 24" CMP	
EX-18	PIPE UNDERDRAIN	532+13		RT							
EX-19	PIPE CULVERT	531+77	532+93	LT/RT						84" RCP	
EX-20	PIPE CULVERT	535+75	535+76	RT						24" RCP	
EX-21	PIPE UNDERDRAIN	535+95		LT				1			
EX-22	PIPE UNDERDRAIN	536+22		RT				1			
EX-23	PIPE UNDERDRAIN	536+25		RT							
EX-24	PIPE UNDERDRAIN	540+69		LT							
EX-25	PIPE UNDERDRAIN	540+70		LT				1			
EX-26	PIPE UNDERDRAIN	540+77		RT				1			
EX-27	PIPE UNDERDRAIN	540+78		RT							
EX-28	PIPE CULVERT	545+77		RT						24" RCP	
TOTAL					79	8.2	6	4	354		

EXISTING DRAINAGE STRUCTURES SCHEDULE												
STRUCTURE NUMBER	STRUCTURE TYPE	STA	OFF	DRAINAGE	INLETS TO BE	REMOVING INLETS	REMOVE EXISTING	PAVED DITCH	STONE RIPRAP,	FILTER FABRIC	NOTE	
				STRUCTURES TO BE	ADJUSTED	EACH	FLARED END SECTION	REMOVAL	CLASS A4	SQ YD		
				EACH	EACH	EACH	EACH	FOOT	SO YD	SQ YD		
EX-01	INLET	486+02	0'									
EX-02	INLET	486+00	77' LT									
EX-03	END SECTION	485+80	129' LT									
EX-04	INLET	503+86	63' RT									
EX-05	INLET	503+59	65' LT									
EX-06	END SECTION	511+90	131' RT									
EX-07	END SECTION	511+90	154' LT									
EX-08	INLET	512+98	1' RT	1	1				30.8	30.8		
EX-09	END SECTION	512+01	125' LT				1					
EX-10	INLET	519+38	70' LT			1						
EX-11	END SECTION	519+32	157' LT				1					
EX-12	END SECTION	523+14	3' RT				1					
EX-13	INLET	523+72	2' RT			1						
EX-14	INLET	526+24	69' RT			1						
EX-15	END SECTION	526+20	165' RT				1					
EX-16	INLET	526+85	70' LT			1						
EX-17	END SECTION	526+89	173' T				1					
EX-18	INLET	529+05	0'	1								
EX-19	END SECTION	529+02	186' LT				1	10				
EX-20	INLET	533+55	91' LT									
EX-21	INLET	535+78	2' LT									
EX-22	INLET	535+76	102' RT									
EX-23	INLET	545+81	2' LT									
EX-24	OUTLET	54+57	89' RT									
TOTAL				2	1	4	6	10	31	31		

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FAI ROUTE 180 (I-180)
DRAINAGE SCHEDULES

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
180	[(06-2B-1) & (06-2HB-1)]BR	BUREAU	327	110
CONTRACT NO. 66K66				
ILLINOIS FED. AID PROJECT				

PROPOSED PIPE SCHEDULE															
STRUC NO	BEGIN STA	END STA	O/S	O/S	US STR	US INV	DS STR	DS INV	SLOPE	PIPE CULVERTS, CLASS D, TYPE 1 24"	SLOTTED DRAIN 24" WITH VARIABLE SLOT	STORM SEWERS, CLASS A, TYPE 1 12"	PIPE DRAINS 12"	CONCRETE THRUST BLOCKS	NOTE
										FOOT	FOOT	FOOT	FOOT	EACH	
P01	488+50.00	489+83.39	0' LT/RT	0' LT/RT	P02	497.92	S01	496.37	1.2%	134					
P02	489+83.39	492+16.41	0' LT/RT	0' LT/RT	P03	500.74	P01	497.92	1.2%		233				
P03	492+16.41	493+10.00	0' LT/RT	0' LT/RT	S02	501.85	P02	500.74	1.2%	94					
P04	519+05.82	519+05.89	69' LT	150' LT	S04	498.41	S05	475.10	-				80	1	
P05	519+11.43	519+11.43	29' RT	0' RT	S06	498.97	S07	497.91	-				25		
P06	523+38.25	523+67.53	0' LT/RT	0' LT/RT	S09	508.40	S08	505.97	8.7%			28			
P07	523+67.53	523+67.53	29' LT	0' LT/RT	S10	512.41	S09	509.76	-				27		
P08	523+77.21	523+77.21	69' LT	170' LT	S11	511.61	S12	472.93	-				101	1	
P09	526+06.35	526+06.35	69' RT	185' RT	S13	519.51	S14	483.93	-				113	1	
P10	526+16.35	526+16.35	29' RT	0' LT/RT	S15	519.84	S16	519.38	-				25		
P11	526+49.51	516+49.51	29' LT	0' LT/RT	S17	520.31	S18	520.05	-				25		
P12	526+59.51	526+59.51	69' LT	180' LT	S19	520.49	S20	479.60	-				112	1	
P13	529+01.87	529+01.87	160' LT	185' LT	EX17	-	S21	476.30	-	25					REPAIR EX PIPE
P14	537+49.56	539+18.49	0' LT/RT	0' LT/RT	P15	556.56	S22	551.51	3.0%	169					
P15	539+18.49	541+51.50	0' LT/RT	0' LT/RT	P16	563.59	P14	556.56	3.0%		233				
P16	541+51.50	542+27.00	0' LT/RT	0' LT/RT	S23	565.80	P15	563.59	3.0%	74					
TOTAL										496	466	28	508	4	

PROPOSED UNDERDRAIN SCHEDULE								
UNDER DRAIN NO	STA	O/S	STA	O/S	CONCRETE HEADWALLS FOR PIPE DRAINS	PIPE UNDERDRAINS 4" (SPECIAL)	PIPE UNDERDRAINS, TYPE 3	NOTE
					EACH	FOOT	FOOT	
U01	486+03.00	35' LT	488+34.90	35' LT		34	232	CONNECT TO EX-01
U02	488+34.90	35' LT	493+34.90	35' LT	1	28	500	
U03	493+34.90	35' LT	496+34.90	35' LT	1	30	300	
U04	486+03.00	35' RT	488+34.90	35' RT		34	232	CONNECT TO EX-01
U05	488+34.90	35' RT	493+34.90	35' RT	1	28	500	
U06	493+34.90	35' RT	496+34.90	35' RT	1	30	300	
U07	523+76.94	59' LT	526+67.71	59' LT		8	291	CONNECT TO S11
U08	525+72.00	35' LT	526+57.38	35' LT	1	25	85	
U09	535+00.00	35' LT	537+27.00	35' LT	1	20	227	
U10	537+27.00	35' LT	542+27.00	35' LT	1	27	500	
U11	542+27.00	35' LT	545+70.00	35' LT		33	343	CONNECT TO S23
U12	535+00.00	35' RT	537+27.00	35' RT	1	20	227	
U13	537+27.00	35' RT	542+27.00	35' RT	1	27	500	
U14	542+27.00	35' RT	545+70.00	35' RT		33	343	CONNECT TO S23
TOTAL					9	377	4580	

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	DRAWN -	REVISED -
PLOT SCALE = 100,0000' / in.	CHECKED -	REVISED -
PLOT DATE = 1/12/2024	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**FAI ROUTE 180 (I-180)
DRAINAGE SCHEDULES**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
180	[(06-2B-1) & (06-2HB-1)]BR	BUREAU	327	111
CONTRACT NO. 66K66				
ILLINOIS FED. AID PROJECT				

PROPOSED DRAINAGE STRUCTURES SCHEDULE

STRUC NO	STA	O/S	RIM	INV.	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 12"	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 24"	FLUSH INLET BOX FOR MEDIAN, STANDARD 542546	SLOPED METAL END SECTION WITH GRATE, STANDARD 542411, 24", 1:6	METAL FLARED END SECTIONS 12"	METAL FLARED END SECTIONS 24"	TYPE F INLET BOX, STANDARD 610001	TYPE G INLET BOX, STANDARD 610001	CONCRETE SHOULDER CURB (SEE NOTE 1)	STONE RIPRAP, CLASS A4	FILTER FABRIC	PAVED DITCH SPECIAL	NOTE
					EACH	EACH	EACH	EACH	EACH	EACH	EACH	FOOT	SQ YD	SQ YD	FOOT		
S01	488+50.00	0' LT/RT	-	496.37				1									
S02	493+10.00	0' LT/RT	-	501.85				1									
S03	512+00.00	124' LT	-	472.65		1							30.8	30.8			
S04	519+05.82	69' LT	501.06	498.41							1		10				
S05	519+05.82	150' LT	-	-					1								
S06	519+11.43	29' RT	501.63	498.97							1		10				
S07	519+11.43	0' RT	-	-					1								
S08	523+38.25	0' LT/RT	-	505.97	1												
S09	523+67.53	0' LT/RT	511.85	508.40 N, 509.76 W			1										
S10	523+67.53	29' RT	515.08	512.41							1		10				
S11	523+77.21	69' LT	514.32	511.61							1		10				
S12	523+77.21	170' LT	-	472.93					1								
S13	526+06.35	69' RT	522.18	519.51							1		10				
S14	526+06.35	185' RT	-	-					1								
S15	526+16.35	29' RT	522.51	519.84							1		10				
S16	526+16.35	0' LT/RT	-	-					1								
S17	526+49.51	29' LT	522.98	520.31							1		10				
S18	526+49.51	0' LT/RT	-	-					1								
S19	526+59.51	69' LT	523.16	520.49							1		10				
S20	526+59.51	180' LT	-	-					1								
S21	529+01.86	186' LT	-	476.30						1						10	
S22	537+50.00	0' LT/RT	-	551.51				1									
S23	542+27.13	0' LT/RT	568.55	565.80			1										
EXISTING DRAINAGE (SEE EXISTING DRAINAGE STRUCTURES SCHEDULE)														31	31		
TOTAL					1	1	2	3	7	1	4	4	80	62	62	10	

NOTE: ALL RIM ELEVATIONS FOR SHOULDER INLETS ARE SHOWN AT THE BACK OF SHOULDER UNLESS NOTED OTHERWISE.

NOTES:

- CONCRETE SHOULDER CURB AS SHOWN ON HIGHWAY STANDARD 610001 SHALL BEGIN AT THE LIMITS OF CURB ON BRIDGE APPROACHES AND EXTEND TO THE END OF THE OPENING OF THE TYPE F AND TYPE G INLET BOXES. SEE SHOULDER INLET DETAIL ON DETAIL SHEETS. SEE STRUCTURE PLANS FOR DETAILS OF CURB ON BRIDGE APPROACHES.

MODEL: Defaul
FILE NAME: 2023057.06 DDT D3 PFB 204-028 MO 06 L180 Resubmit\DCM\Design\Plan\Plot\sheet3\0356K66-sh-drain-00.dgn



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	DRAWN -	REVISED -
PLOT SCALE = 100,0000' / in.	CHECKED -	REVISED -
PLOT DATE = 1/12/2024	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FAI ROUTE 180 (I-180)
DRAINAGE SCHEDULES

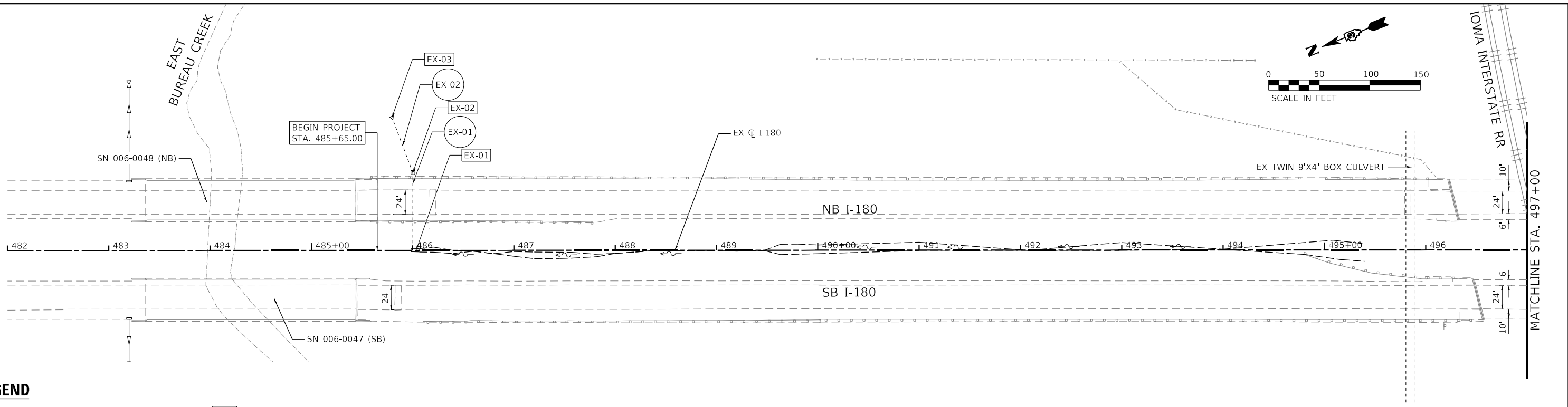
SCALE: SHEET OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
180	[(06-2B-1) & (06-2HB-1)]BR	BUREAU	327	112
CONTRACT NO. 66K66				
ILLINOIS FED. AID PROJECT				

PLAN	SURVEYED	DATE
	PLOTTED	BY
	ALIGNED	
	CHECKED	
	FILE NAME	
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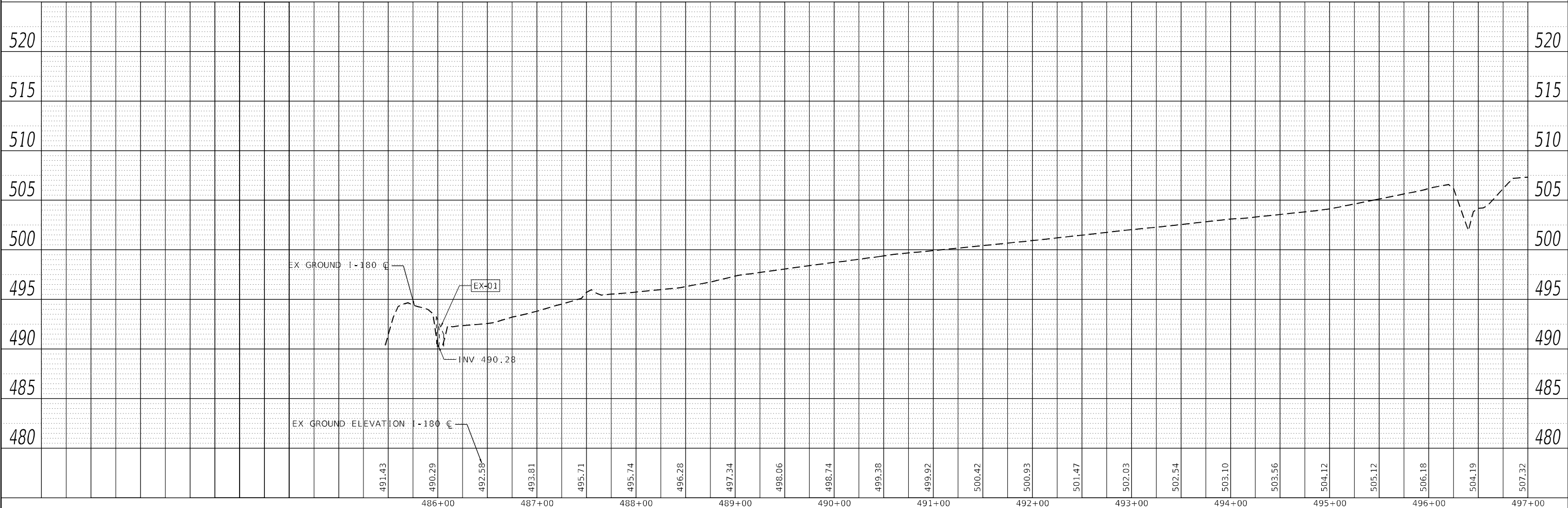
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LEGEND

- [R] STRUCTURE TO BE REMOVED
- [ADJ] STRUCTURE TO BE ADJUSTED
- [CLN] STRUCTURE TO BE CLEANED
- [ABAN] DRAINAGE PIPE TO BE FILLED
- [EX-X] EXISTING DRAINAGE STRUCTURE
- (EX-X) EXISTING DRAINAGE PIPE
- DRAINAGE PIPE REMOVAL



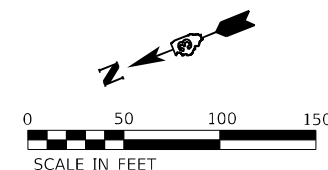
EFK Moen
Civil Engineering Design

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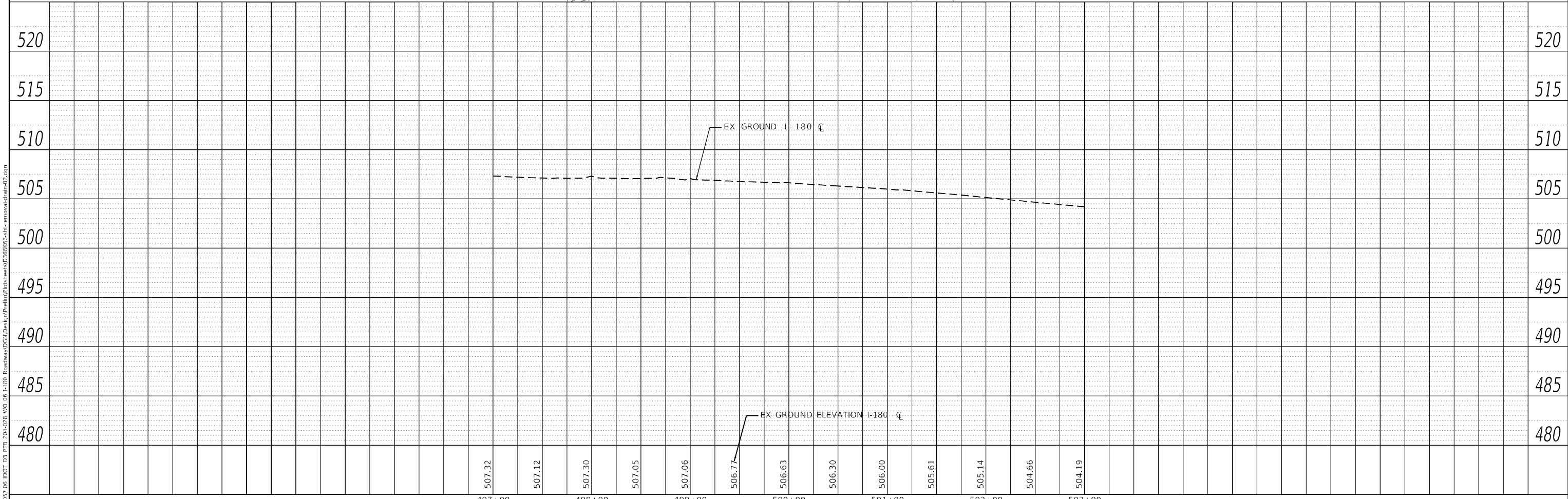
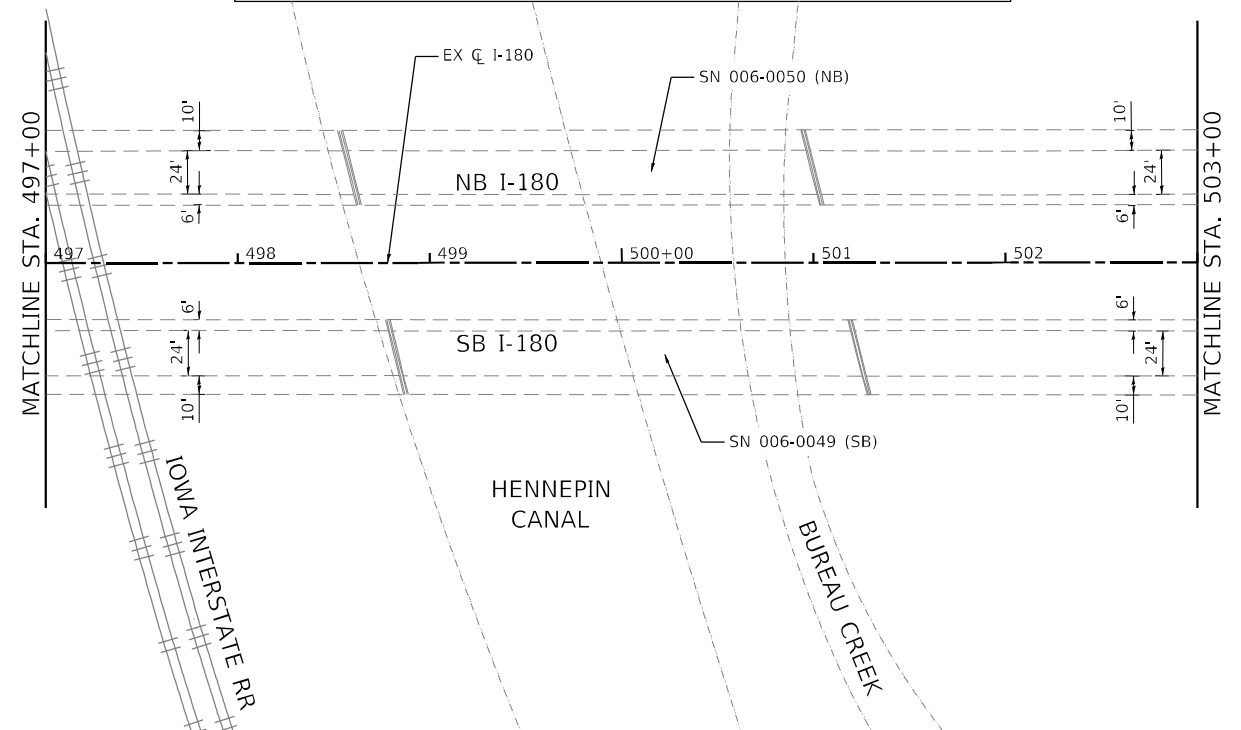
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FAI ROUTE 180 (I-180)	
DRAINAGE REMOVAL PLAN	
SCALE: 1" = 50'	SHEET 1 OF 5 SHEETS STA. TO STA. 497+00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
180	[(06-2B-1) & (06-2HB-1)]BR	BUREAU	327	113
CONTRACT NO. 66K66			ILLINOIS FED. AID PROJECT	



OMISSION
STA 496 + 35 TO STA 505 + 40 (NB)
STA 496 + 35 TO STA 505 + 50 (SB)



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

PROFILE	SURVEYED	DATE
	PLOTTED	
NOTE BOOK NO.	GRADES CHECKED	
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 Civil Engineering Design

USER NAME = RGal	DESIGNED -	REVISED -
	DRAWN -	REVISED -
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PLOT DATE = 1/12/2024	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

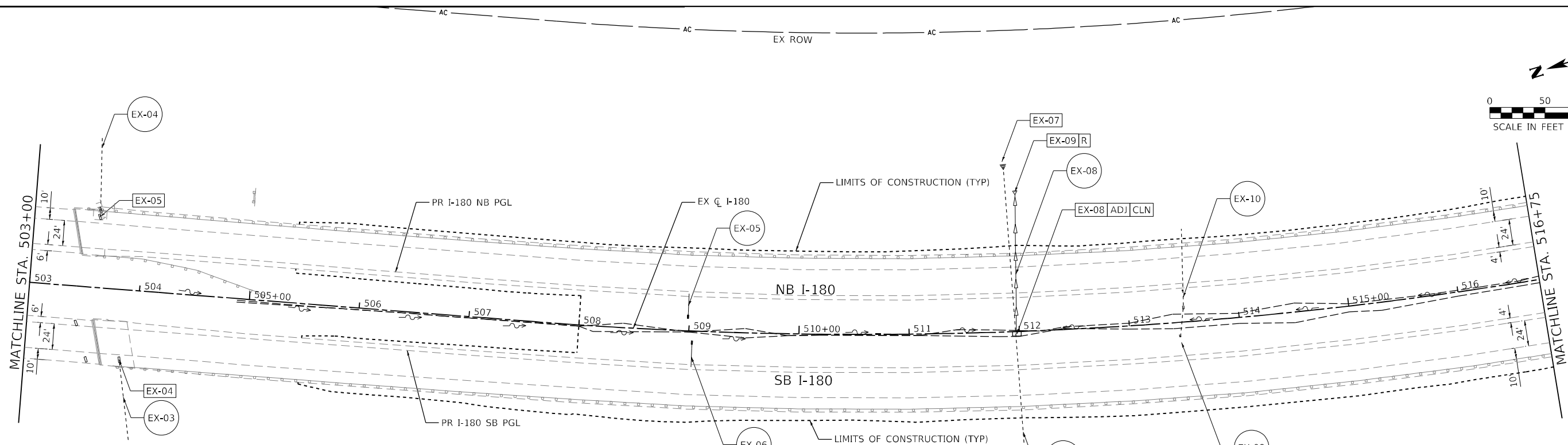
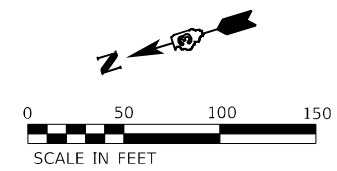
FAI ROUTE 180 (I-180)	
DRAINAGE REMOVAL PLAN	
SCALE: 1" = 50'	SHEET 2 OF 5 SHEETS
STA. 497+00	TO STA. 503+00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
180	[(06-2B-1) & (06-2HB-1)]BR	BUREAU	327	114
			CONTRACT NO. 66K66	
		ILLINOIS FED. AID PROJECT		

PLAN	SURVEYED	DATE
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	NOTE BOOK	
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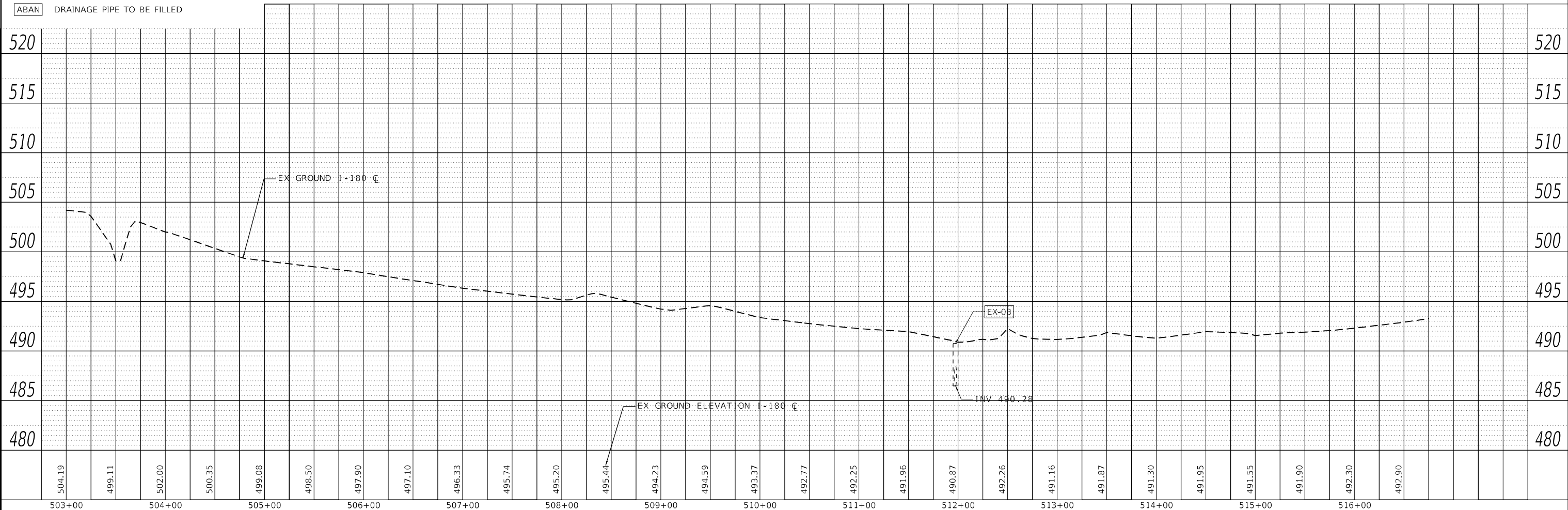
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LEGEND

- [R] STRUCTURE TO BE REMOVED
- [ADJ] STRUCTURE TO BE ADJUSTED
- [CLN] STRUCTURE TO BE CLEANED
- [ABAN] DRAINAGE PIPE TO BE FILLED
- [EX-X] EXISTING DRAINAGE STRUCTURE
- (EX-X) EXISTING DRAINAGE PIPE
- - - DRAINAGE PIPE REMOVAL



EFK Moen
 Civil Engineering Design

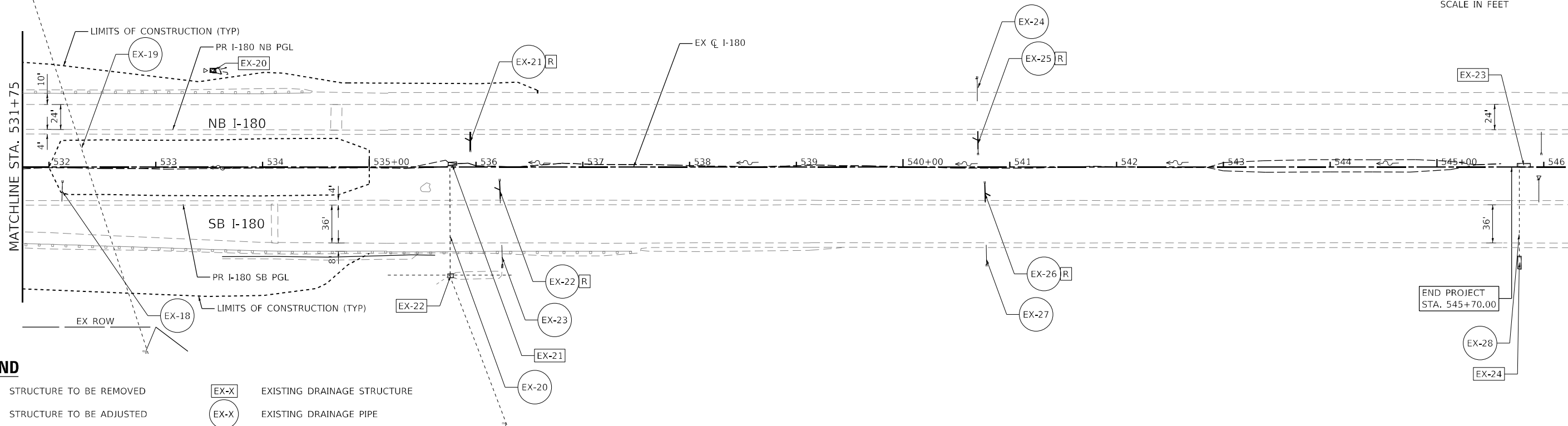
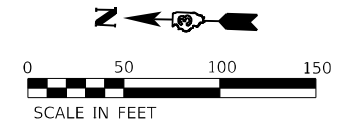
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	DRAWN -	REVISED -
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PLOT DATE = 1/12/2024	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FAI ROUTE 180 (I-180)
DRAINAGE REMOVAL PLAN

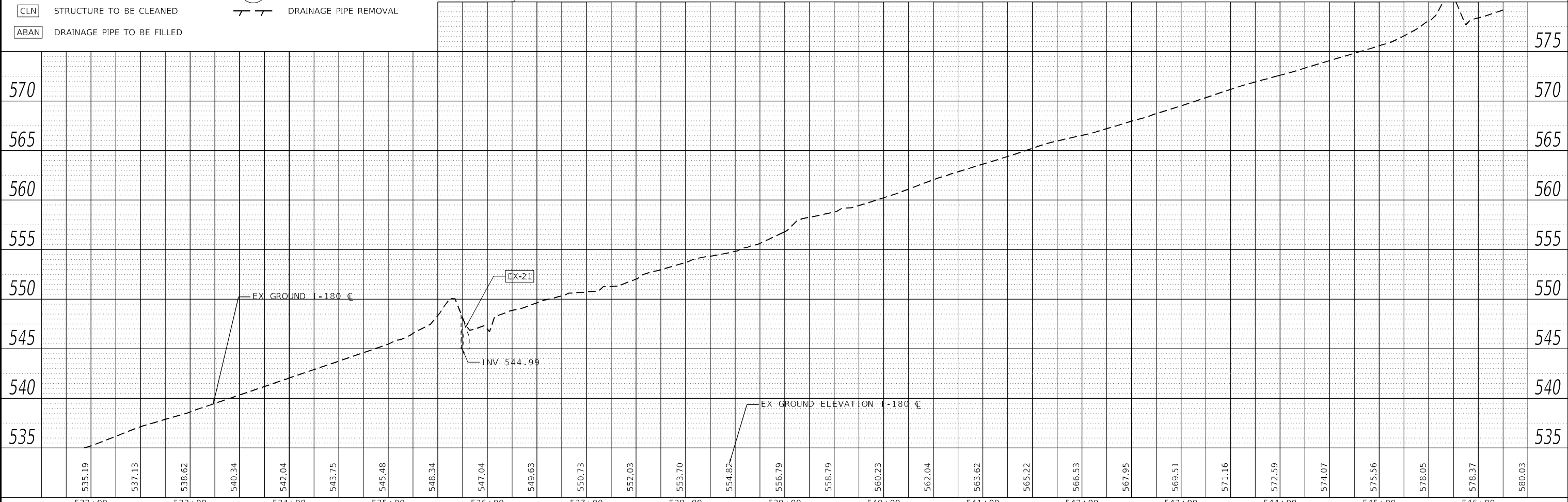
SCALE: 1" = 50' SHEET 3 OF 5 SHEETS STA. 503+00 TO STA. 516+75

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
180	[(06-2B-1) & (06-2HB-1)]BR	BUREAU	327	115
CONTRACT NO. 66K66			ILLINOIS FED. AID PROJECT	



LEGEND

- [R] STRUCTURE TO BE REMOVED
- [ADJ] STRUCTURE TO BE ADJUSTED
- [CLN] STRUCTURE TO BE CLEANED
- [ABAN] DRAINAGE PIPE TO BE FILLED
- [EX-X] EXISTING DRAINAGE STRUCTURE
- (EX-X) EXISTING DRAINAGE PIPE
- DRAINAGE PIPE REMOVAL



PLAN	SURVEYED	DATE
	PLOTTED	
	ALIGNED	
	CHECKED	
	FILE NAME	
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PROFILE	SURVEYED	DATE
	PLOTTED	
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	DRAWN -	REVISED -
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PLOT DATE = 1/12/2024	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

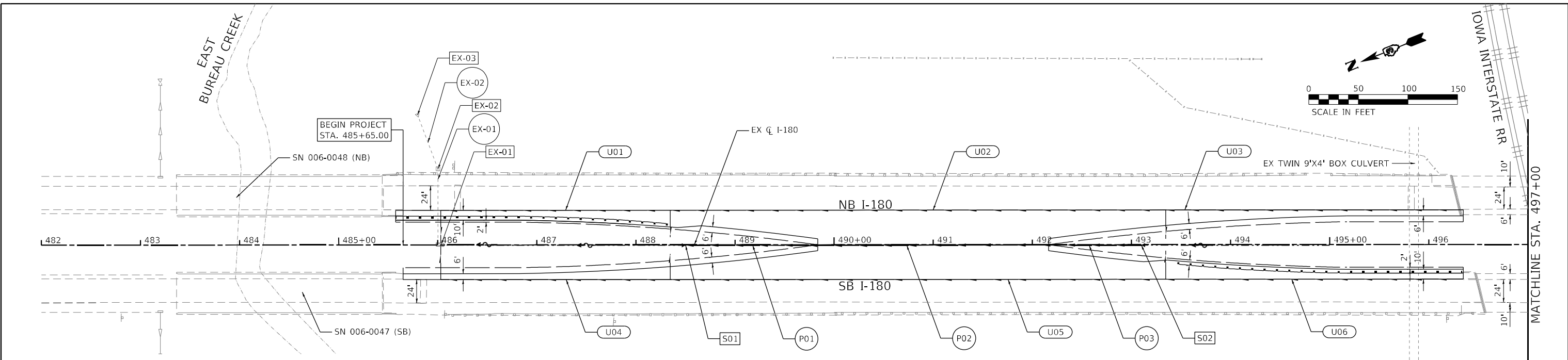
FAI ROUTE 180 (I-180) DRAINAGE REMOVAL PLAN		
SCALE: 1" = 50'	SHEET 5 OF 5 SHEETS	STA. 531+75 TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
180	[(06-2B-1) & (06-2HB-1)]BR	BUREAU	327	117
CONTRACT NO. 66K66			ILLINOIS FED. AID PROJECT	

PLAN	SURVEYED	DATE
	PLOTTED	
	ALIGNED	
	CHECKED	
	FILED	
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PROFILE	SURVEYED	DATE
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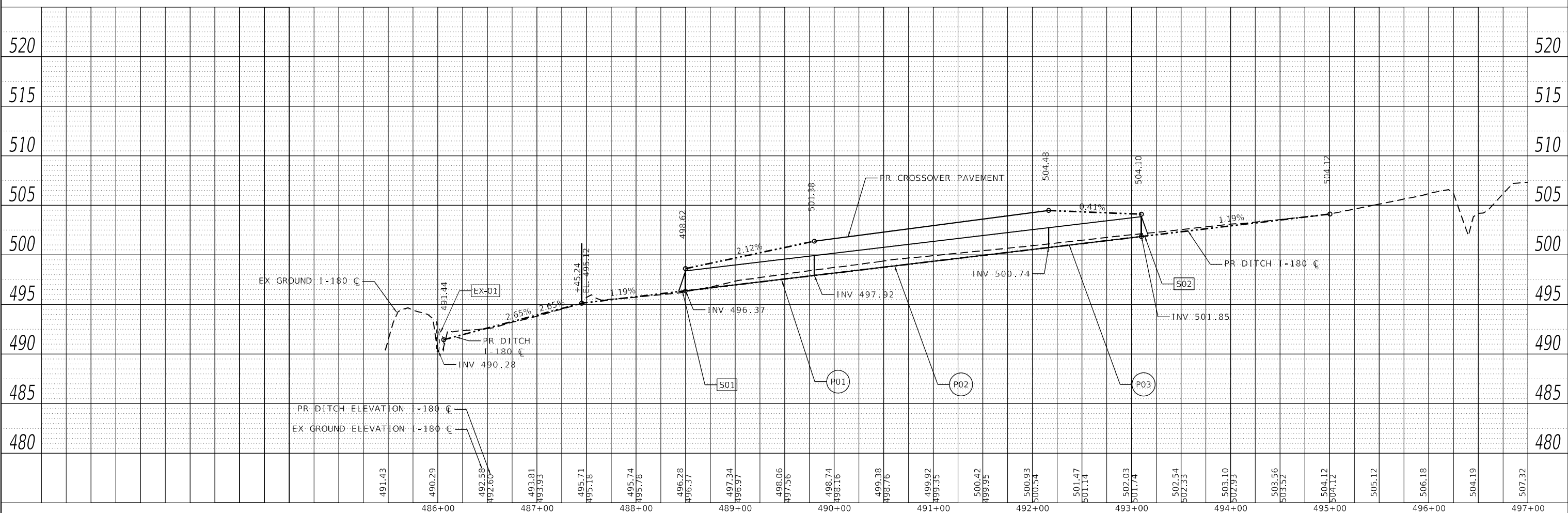


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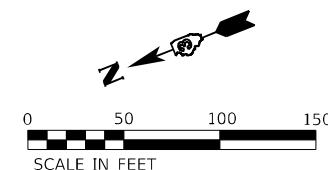
EX-X	EX DRAINAGE STRUCTURE	UXX	PR PIPE UNDERDRAIN	---	EX PIPE CULVERT	~>	PR FLOW ARROW
EX-X	EX DRAINAGE PIPE	---	EX DITCH	---	PR PIPE CULVERT / DRAIN	---	
SXX	PR DRAINAGE STRUCTURE	---	PR DITCH	---	PR PIPE UNDERDRAIN	---	
PXX	PR DRAINAGE PIPE	---	EX STORM SEWER	---	EX FLOW ARROW	---	

NOTES

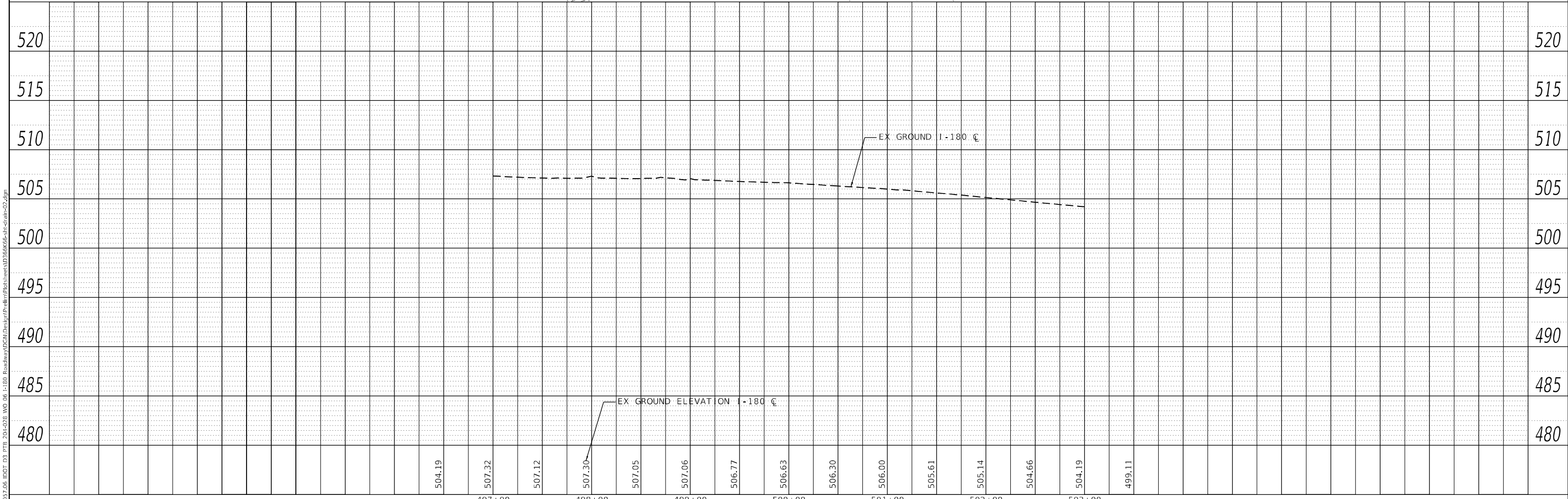
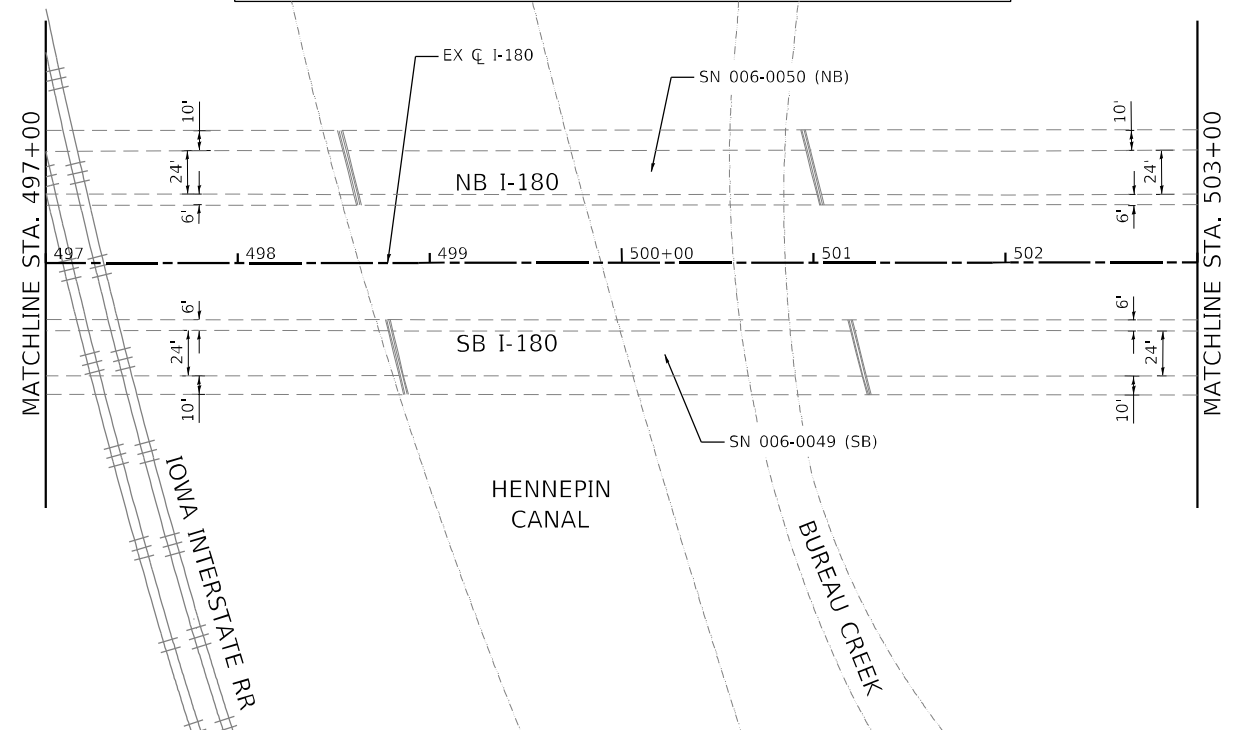
- FOR REMOVAL EXISTING DRAINAGE ITEMS, SEE DRAINAGE REMOVAL PLANS.



EFK Moen Civil Engineering Design	USER NAME = RGal	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	FAI ROUTE 180 (I-180) DRAINAGE & UTILITY PLAN		F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 100,0000' / in. PLOT DATE = 1/12/2024	CHECKED -	REVISED -		SCALE: 1" = 50' SHEET 1 OF 5 SHEETS STA. TO STA. 497+00	180	[(06-2B-1) & (06-2HB-1)]BR	BUREAU	327	118	CONTRACT NO. 66K66



OMISSION
STA 496 + 35 TO STA 505 + 40 (NB)
STA 496 + 35 TO STA 505 + 50 (SB)



PLAN	DATE
NOTED	
ALIGNED	
CHECKED	
FILE NAME	

PROFILE	DATE
NOTED	
CHECKED	
FILE NAME	

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	DRAWN -	REVISED -	
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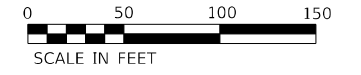
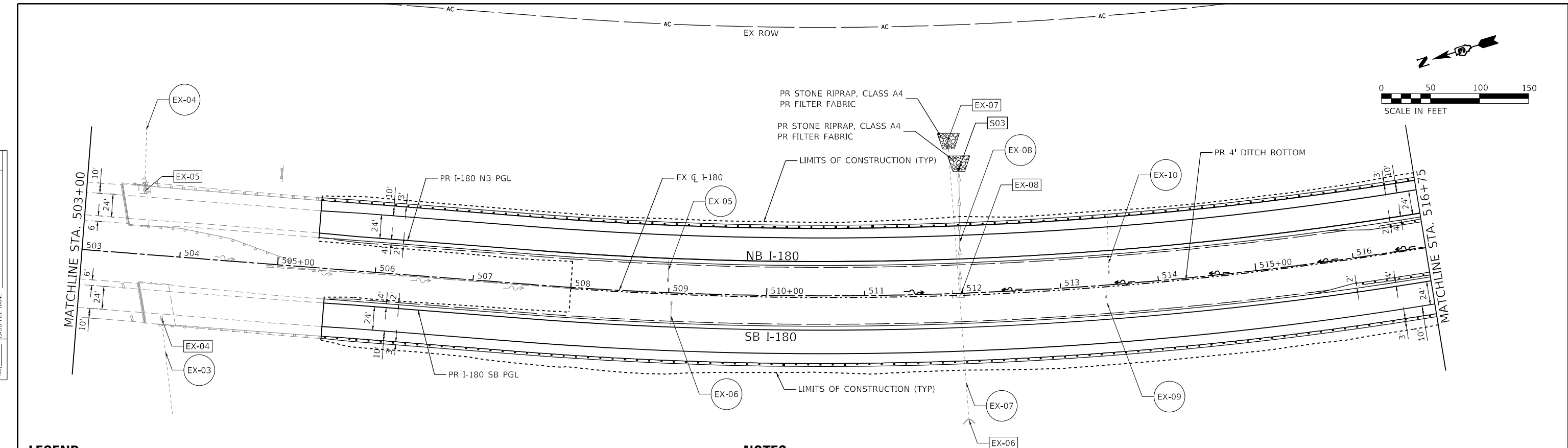
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FAI ROUTE 180 (I-180)			
DRAINAGE & UTILITY PLAN			
SCALE: 1" = 50'	SHEET 2	OF 5 SHEETS	STA. 497+00 TO STA. 503+00

F.A.I. RTE. 180	SECTION [(06-2B-1) & (06-2HB-1)]BR	COUNTY BUREAU	TOTAL SHEETS 327
			SHEET NO. 119
CONTRACT NO. 66K66			
ILLINOIS FED. AID PROJECT			

PLAN	SURVEYED	DATE
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	ALIGNMENT CHECKED	
	GRADE CHECKED	
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	BY	
	DATE	

PROFILE	SURVEYED	DATE
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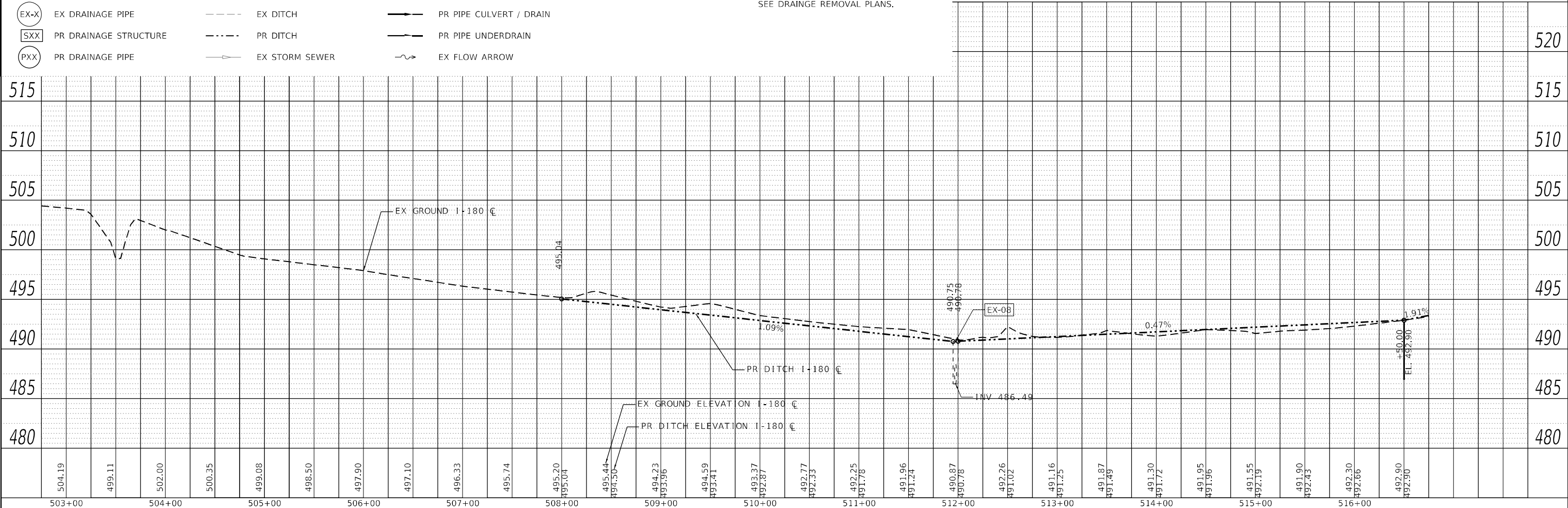


LEGEND

- | | | | |
|------------------------------|--------------------------|-------------------------------|-----------------|
| [EX-X] EX DRAINAGE STRUCTURE | [UXX] PR PIPE UNDERDRAIN | ----- EX PIPE CULVERT | ~ PR FLOW ARROW |
| [EX-X] EX DRAINAGE PIPE | ----- EX DITCH | ----- PR PIPE CULVERT / DRAIN | |
| [SXX] PR DRAINAGE STRUCTURE | ----- PR DITCH | ----- PR PIPE UNDERDRAIN | |
| [PXX] PR DRAINAGE PIPE | ----- EX STORM SEWER | ----- EX FLOW ARROW | |

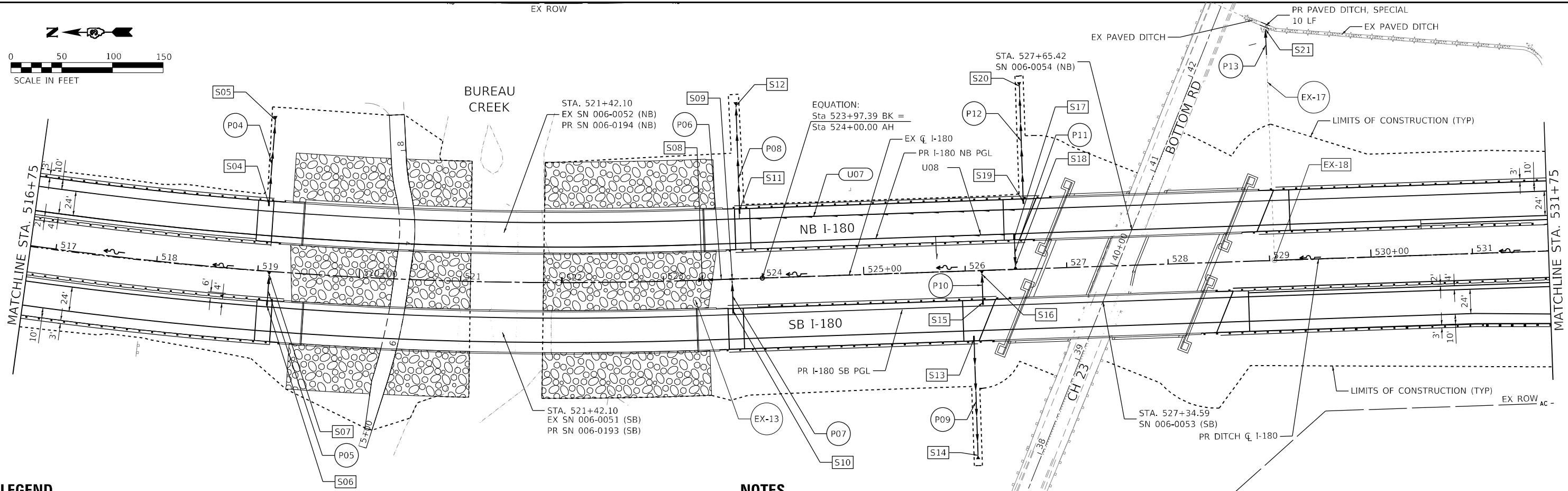
NOTES

- FOR REMOVAL EXISTING DRAINAGE ITEMS, SEE DRAINAGE REMOVAL PLANS.



EFK Moen Civil Engineering Design	USER NAME = RGal	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	FAI ROUTE 180 (I-180) DRAINAGE & UTILITY PLAN	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 100,0000' / in.	CHECKED -	REVISED -			180	[(06-2B-1) & (06-2HB-1)]BR	BUREAU	327	120
	PLOT DATE = 1/12/2024	DATE -	REVISED -	SCALE: 1" = 50'		SHEET 3 OF 5 SHEETS		STA. 503+00 TO STA. 516+75		CONTRACT NO. 66K66

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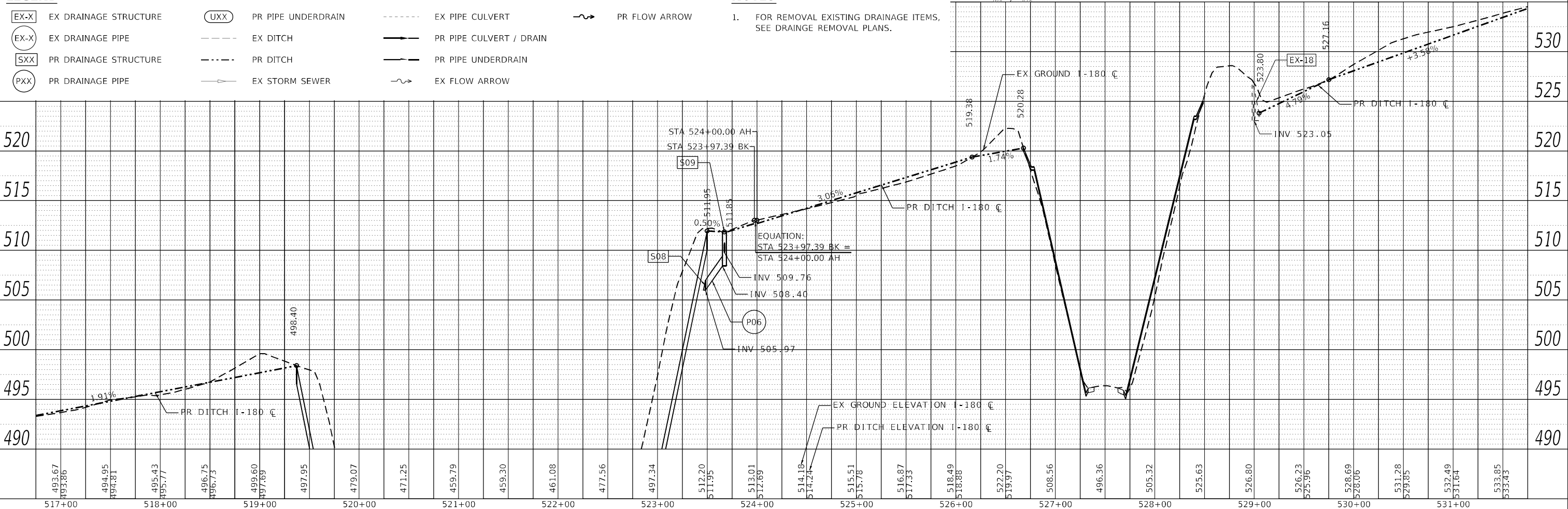


LEGEND

- | | | | | | | | |
|-------------|-----------------------|------------|--------------------|-------|-------------------------|----|---------------|
| EX-X | EX DRAINAGE STRUCTURE | UXX | PR PIPE UNDERDRAIN | ----- | EX PIPE CULVERT | ~> | PR FLOW ARROW |
| EX-X | EX DRAINAGE PIPE | --- | EX DITCH | ----- | PR PIPE CULVERT / DRAIN | ~> | EX FLOW ARROW |
| SXX | PR DRAINAGE STRUCTURE | --- | PR DITCH | ----- | PR PIPE UNDERDRAIN | ~> | EX FLOW ARROW |
| PXX | PR DRAINAGE PIPE | --- | EX STORM SEWER | ----- | EX FLOW ARROW | | |

NOTES

- FOR REMOVAL EXISTING DRAINAGE ITEMS, SEE DRAINAGE REMOVAL PLANS.



PLAN	SURVEYED	DATE
	PLOTTED	
	ALIGNMENT CHECKED	
	GRADES CHECKED	
	STRUCTURE NOTATIONS CHECKED	
	NO. _____	

PROFILE	SURVEYED	DATE
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EFK Moen
Civil Engineering Design

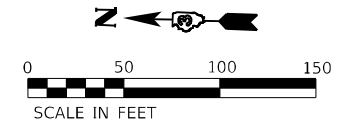
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FAI ROUTE 180 (I-180)
DRAINAGE & UTILITY PLAN

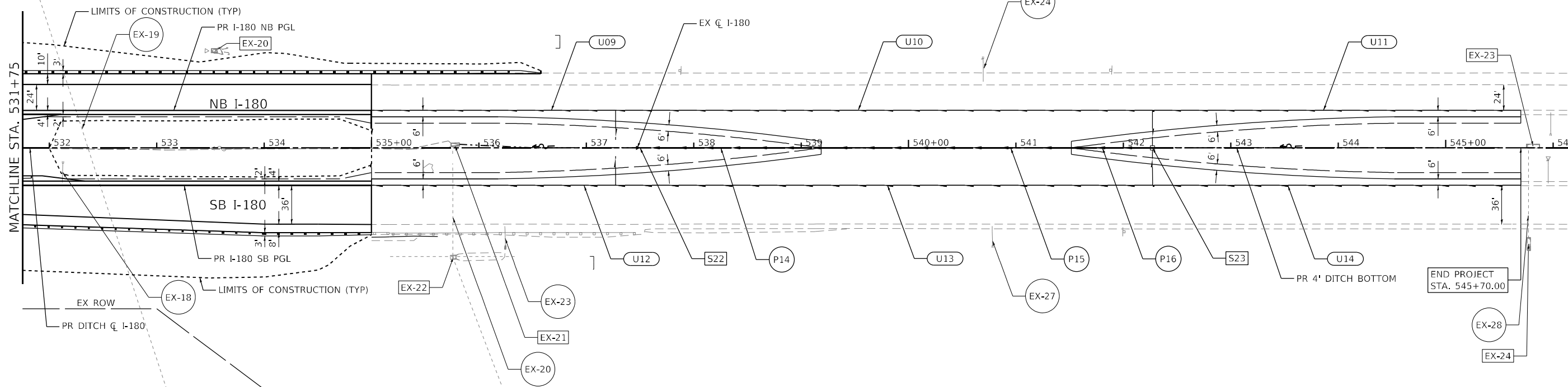
SCALE: 1" = 50' SHEET 4 OF 5 SHEETS STA. 516+75 TO STA. 531+75

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
180	[(06-2B-1) & (06-2HB-1)]BR	BUREAU	327	121
CONTRACT NO. 66K66			ILLINOIS FED. AID PROJECT	



PLAN	SURVEYED	DATE
	PLOTTED	
	ALIGNMENT CHECKED	
	GRADE CHECKED	
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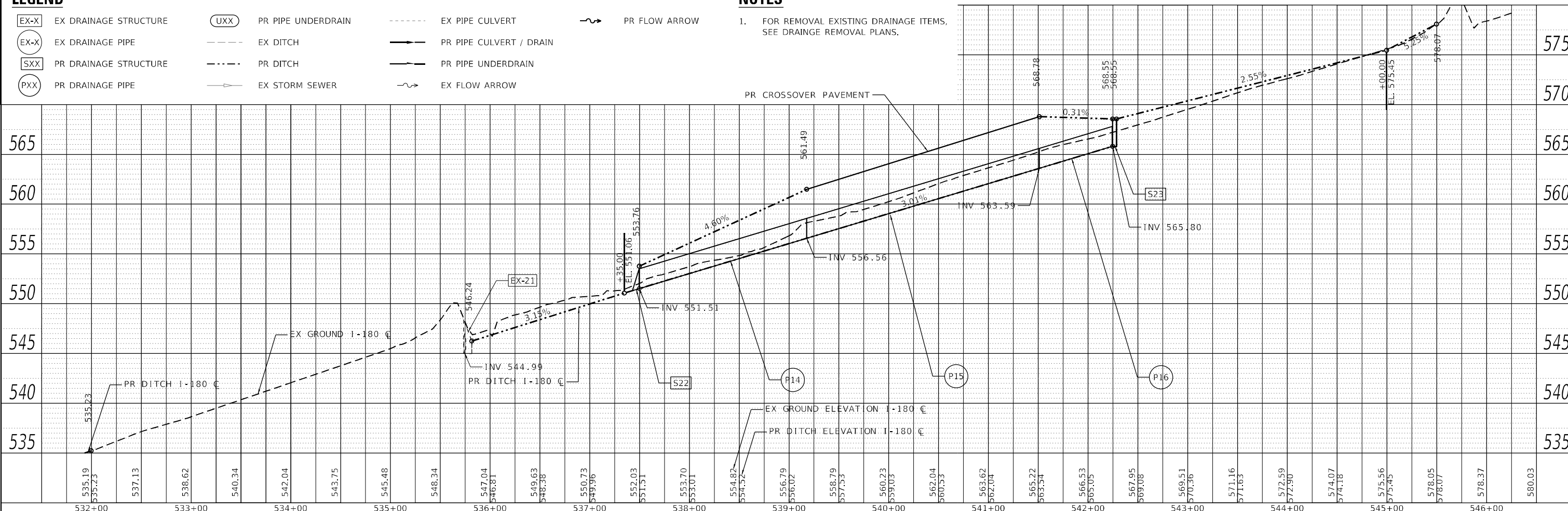


LEGEND

EX DRAINAGE STRUCTURE	PR PIPE UNDERDRAIN	EX PIPE CULVERT	PR FLOW ARROW
EX DRAINAGE PIPE	EX DITCH	PR PIPE CULVERT / DRAIN	
PR DRAINAGE STRUCTURE	PR DITCH	PR PIPE UNDERDRAIN	
PR DRAINAGE PIPE	EX STORM SEWER	EX FLOW ARROW	

NOTES

- FOR REMOVAL EXISTING DRAINAGE ITEMS, SEE DRAINAGE REMOVAL PLANS.



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EFK Moen
Civil Engineering Design

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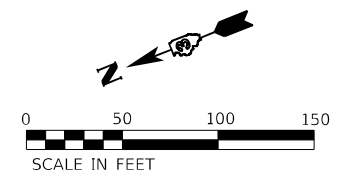
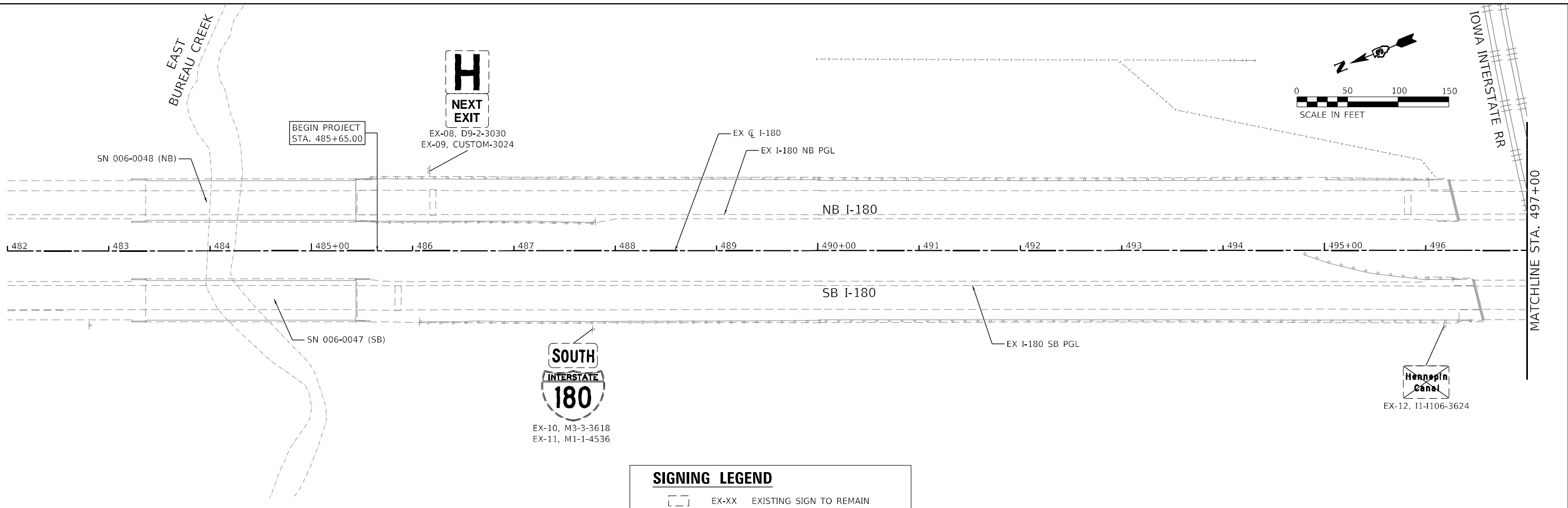
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FAI ROUTE 180 (I-180)
DRAINAGE & UTILITY PLAN

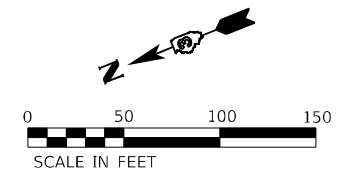
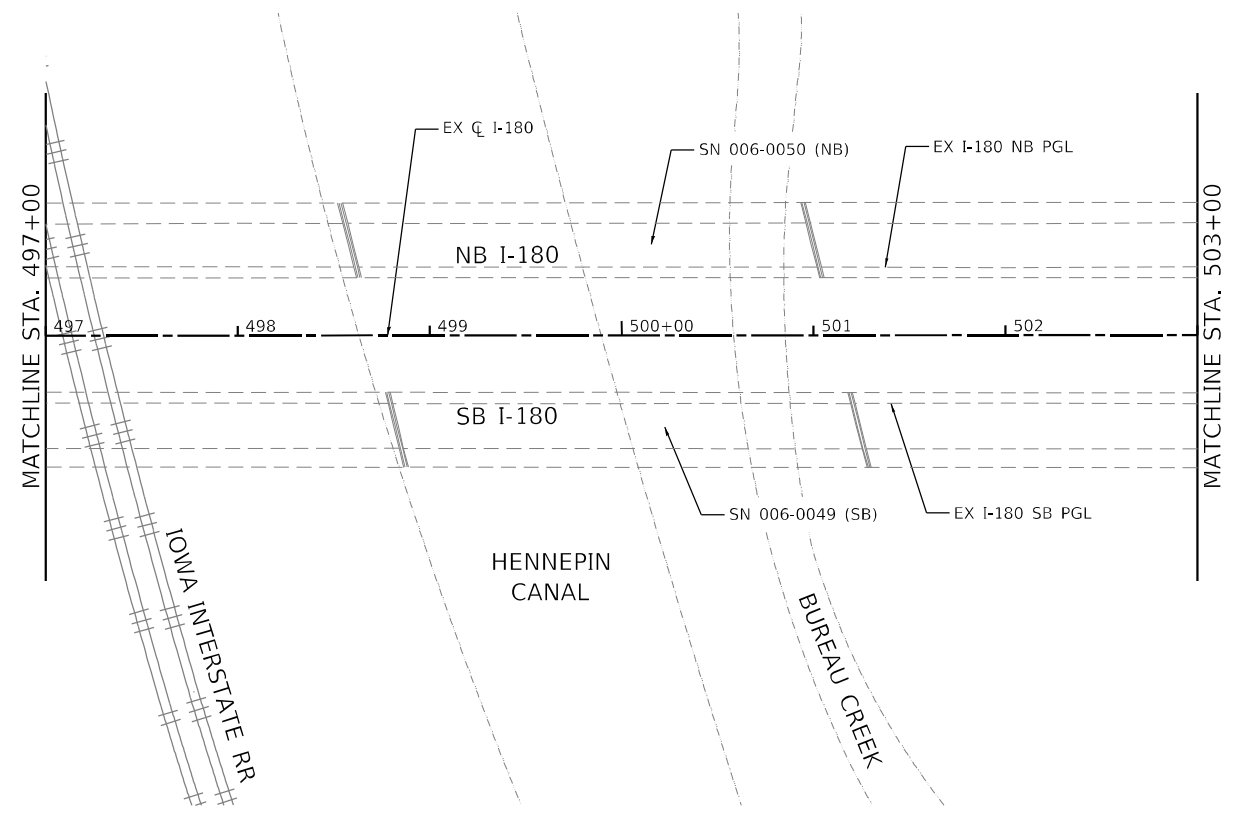
SCALE: 1" = 50' SHEET 5 OF 5 SHEETS STA. 531+75 TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
180	[(06-2B-1) & (06-2HB-1)]BR	BUREAU	327	122
CONTRACT NO. 66K66				
ILLINOIS FED. AID PROJECT				

MODEL: Default
 FILE NAME: 2023057_06 IDOT D3 PFB_204-028_MO_06 I-180_RoadwayVDCMIDesign\Project\Plan\PlotSheet\3D56K66-sh-signing-ex-01.dgn

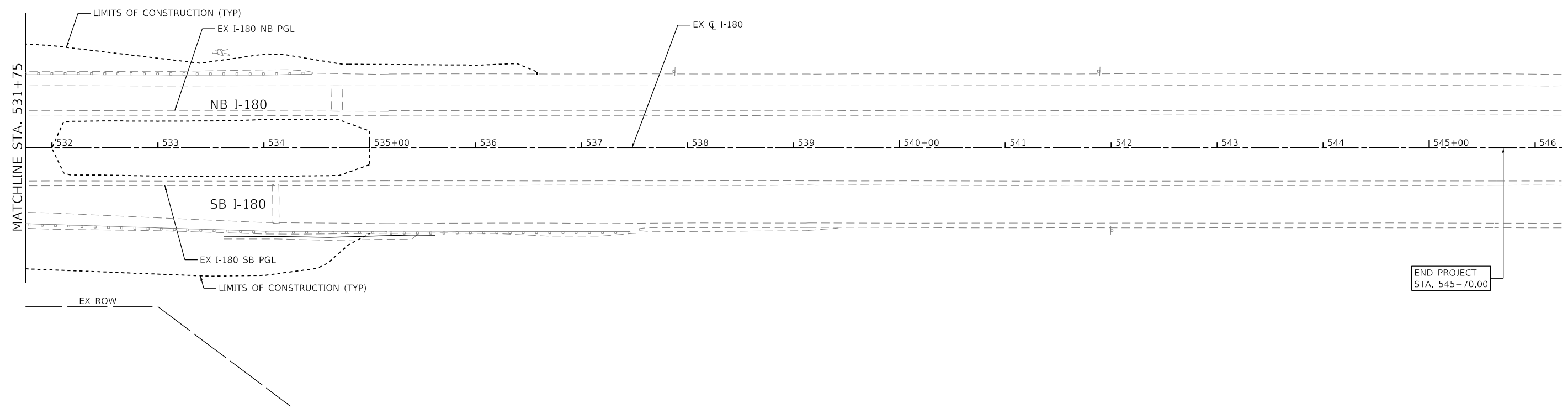
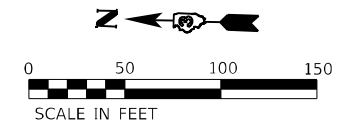


SIGNING LEGEND	
	EX-XX EXISTING SIGN TO REMAIN
	EX-XX REMOVED SIGN
	PR-XX PROPOSED SIGN



USER NAME = RGal	DESIGNED -	REVISED -
PLOT SCALE = 100,0000' / in.	DRAWN -	REVISED -
PLOT DATE = 1/12/2024	CHECKED -	REVISED -
	DATE -	REVISED -

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
180	[(06-2B-1) & (06-2HB-1)]BR	BUREAU	327	124
CONTRACT NO. 66K66			ILLINOIS FED. AID PROJECT	



SIGNING LEGEND

- EX-XX EXISTING SIGN TO REMAIN
- EX-XX REMOVED SIGN
- PR-XX PROPOSED SIGN

MODEL: Default
 FILE NAME: 2023057_06 DDOT D3 PFB_204-028_MO_06 I-180_Roadway\DCM\Design\Plan\PlotSheets\I-180-666-sh-signs-ex-03.dgn



USER NAME = RGall	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 100,0000' / in.	CHECKED -	REVISED -
PLOT DATE = 1/12/2024	DATE -	REVISED -

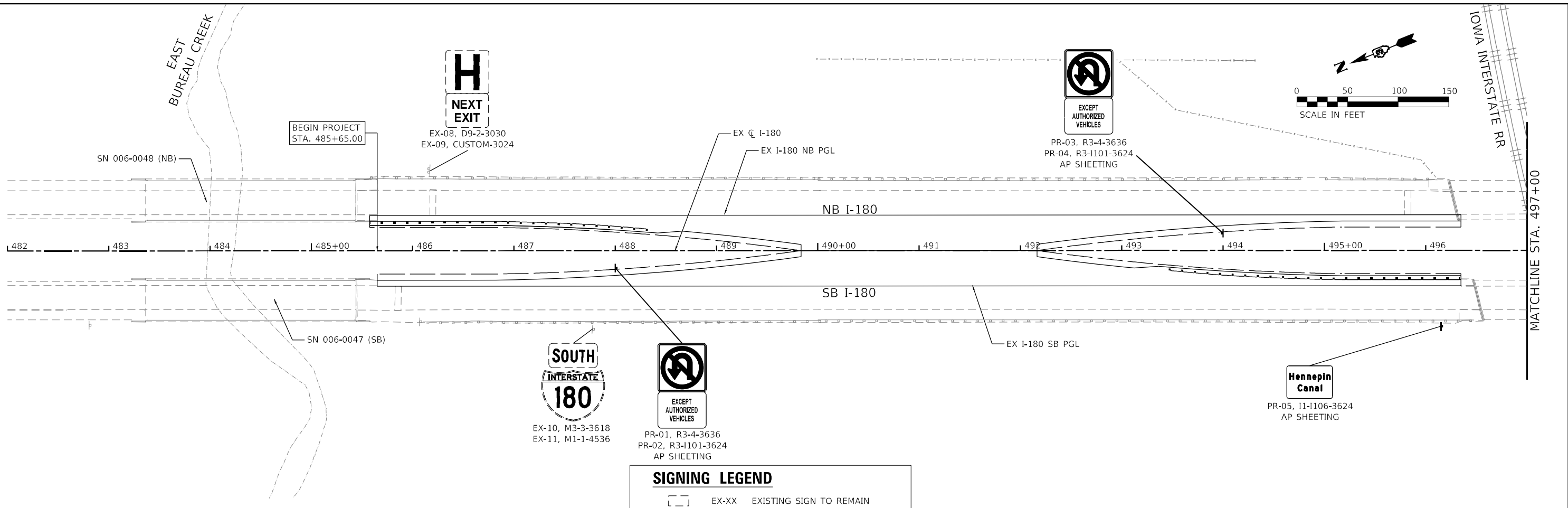
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**FAI ROUTE 180 (I-180)
EXISTING SIGNING PLAN**

SCALE: 1" = 50' SHEET 3 OF 3 SHEETS STA. 531+75 TO STA. 545+70

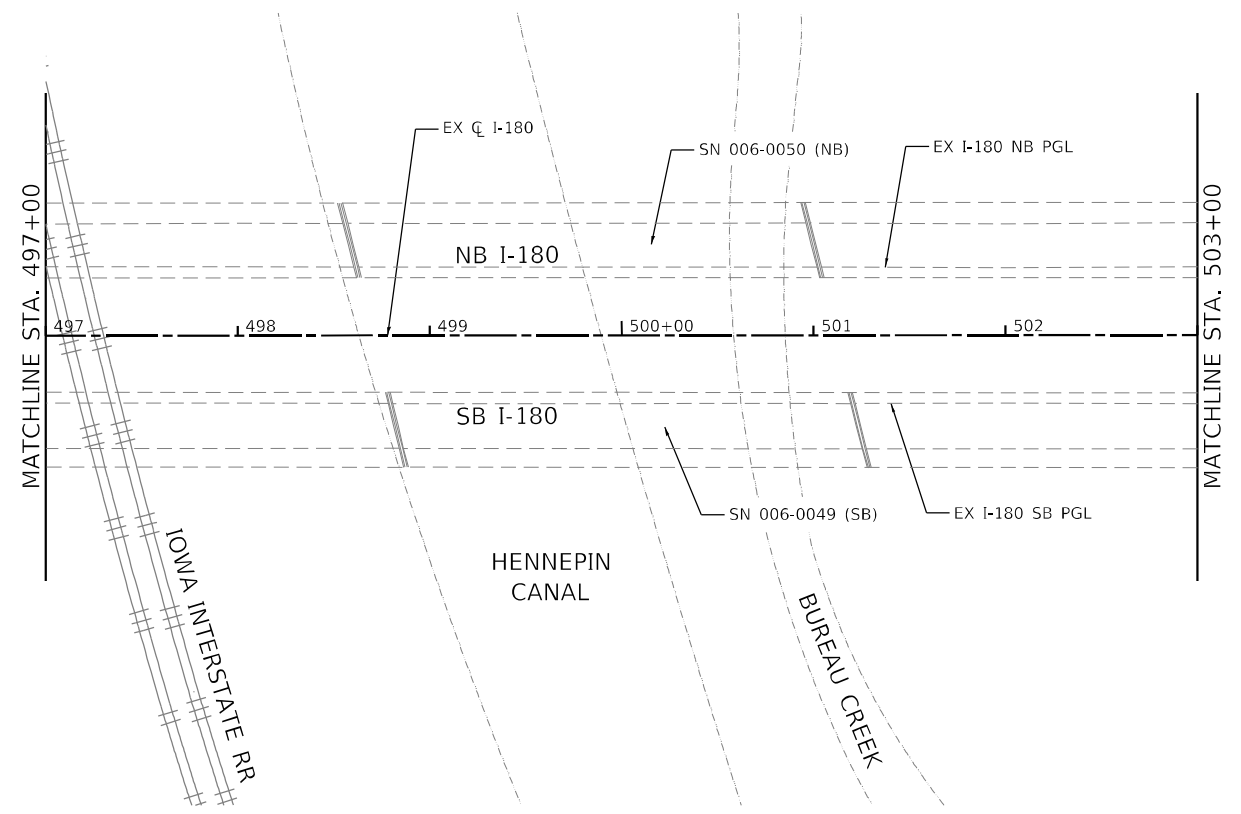
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
180	[(06-2B-1) & (06-2HB-1)]BR	BUREAU	327	126
CONTRACT NO. 66K66				
ILLINOIS FED. AID PROJECT				

MODEL: Default
 FILE NAME: 2023057_06 IDOT D3 PFB 204-028 MO 06 I-180 ResubmitVDCMIDesignIPRPlanPlotSheet3D256K66-sh-sig-prc-01.dgn



SIGNING LEGEND

- EX-XX EXISTING SIGN TO REMAIN
- EX-XX REMOVED SIGN
- PR-XX PROPOSED SIGN



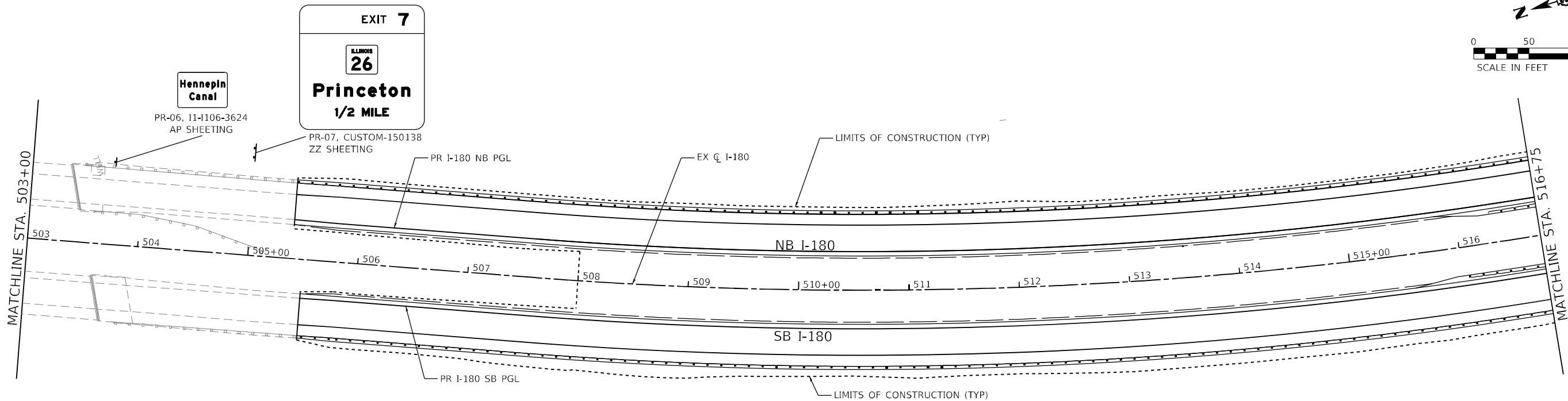
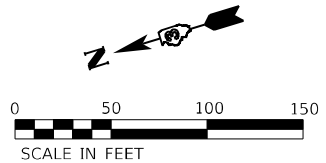
USER NAME = RGal	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 100,0000' / in.	CHECKED -	REVISED -
PLOT DATE = 1/12/2024	DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**FAI ROUTE 180 (I-180)
 PROPOSED SIGNING PLAN**

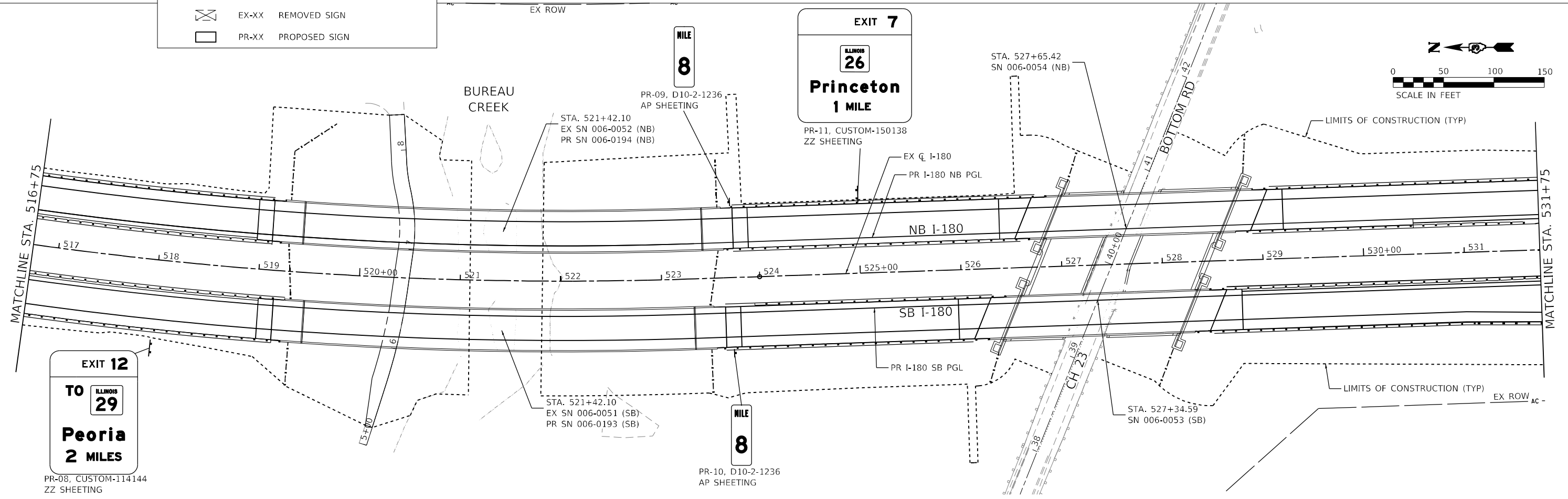
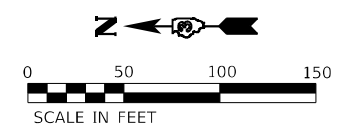
SCALE: 1" = 50' SHEET 1 OF 3 SHEETS STA. 485+65 TO STA. 503+00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
180	[(06-2B-1) & (06-2HB-1)]BR	BUREAU	327	127
			CONTRACT NO. 66K66	
ILLINOIS FED. AID PROJECT				



SIGNING LEGEND

	EX-XX	EXISTING SIGN TO REMAIN
	EX-XX	REMOVED SIGN
	PR-XX	PROPOSED SIGN



MODEL: D:\efk\114144.dwg
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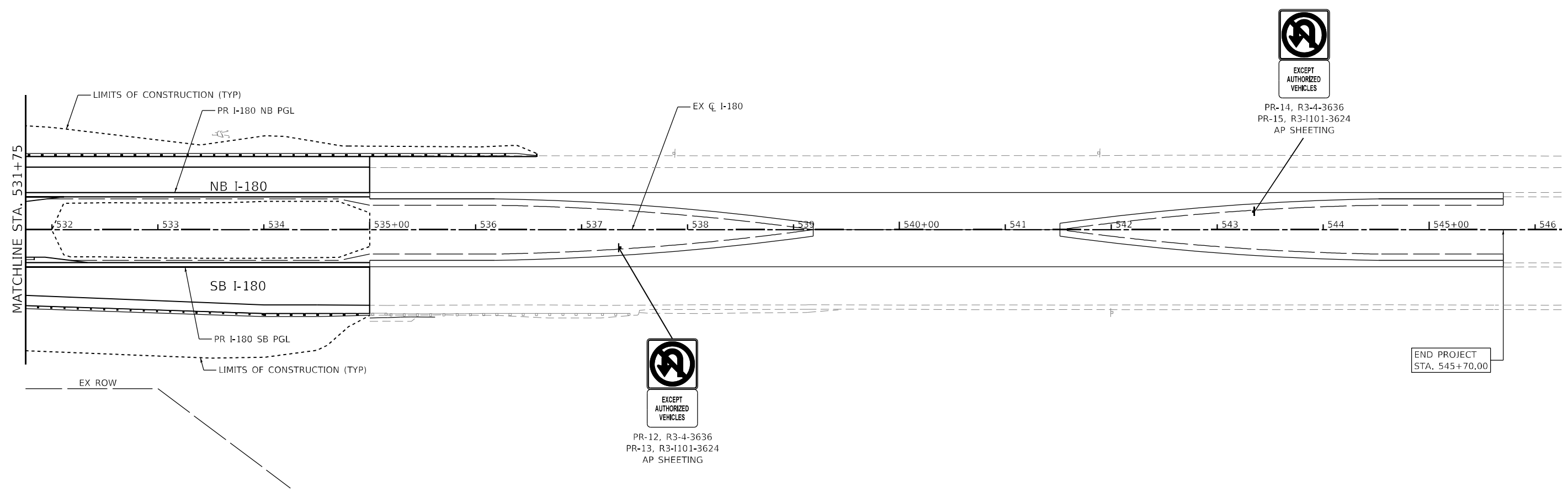
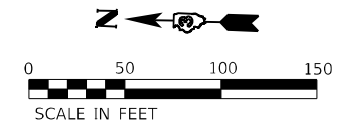


USER NAME = RGal	DESIGNED -	REVISED -
PLOT SCALE = 100,0000' / in.	DRAWN -	REVISED -
PLOT DATE = 1/12/2024	CHECKED -	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FAI ROUTE 180 (I-180) PROPOSED SIGNING PLAN			
SCALE: 1" = 50'	SHEET 2	OF 3 SHEETS	STA. 503+00 TO STA. 531+75

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
180	[(06-2B-1) & (06-2HB-1)]BR	BUREAU	327	128
CONTRACT NO. 66K66				
ILLINOIS FED. AID PROJECT				



SIGNING LEGEND

	EX-XX	EXISTING SIGN TO REMAIN
	EX-XX	REMOVED SIGN
	PR-XX	PROPOSED SIGN

MODEL: Default
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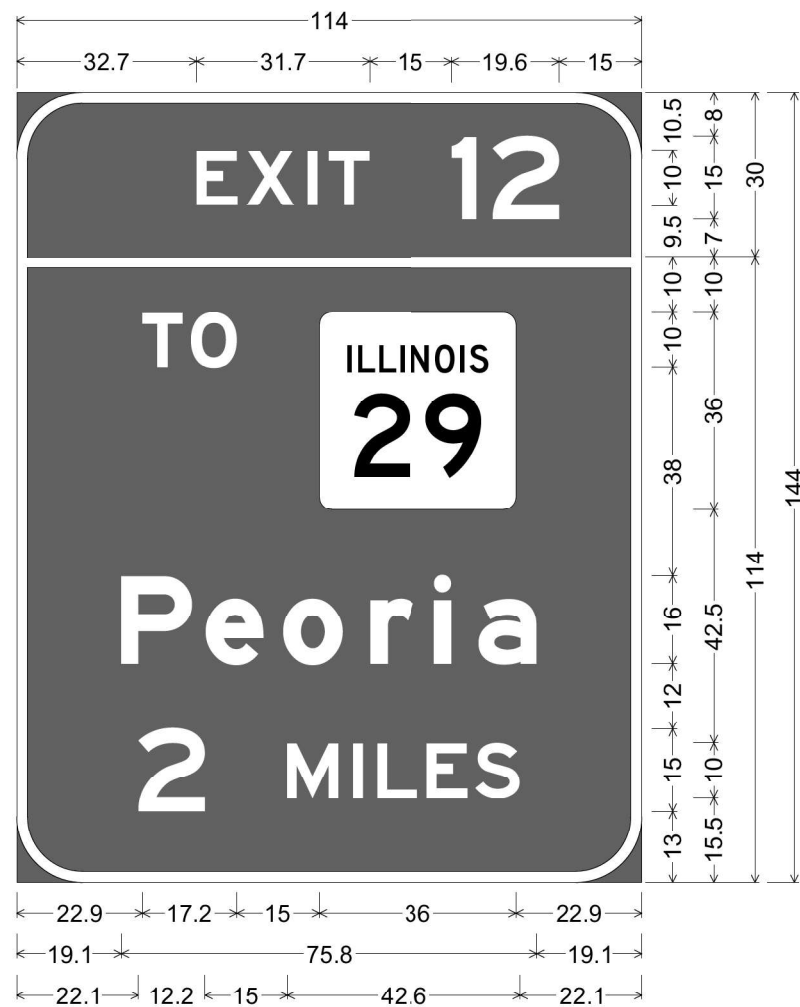
USER NAME = RGal	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 100,0000' / in.	CHECKED -	REVISED -
PLOT DATE = 1/12/2024	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FAI ROUTE 180 (I-180)
PROPOSED SIGNING PLAN

SCALE: 1" = 50' SHEET 3 OF 3 SHEETS STA. 531+75 TO STA. 545+70

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
180	[(06-2B-1) & (06-2HB-1)]BR	BUREAU	327	129
CONTRACT NO. 66K66				
ILLINOIS FED. AID PROJECT				



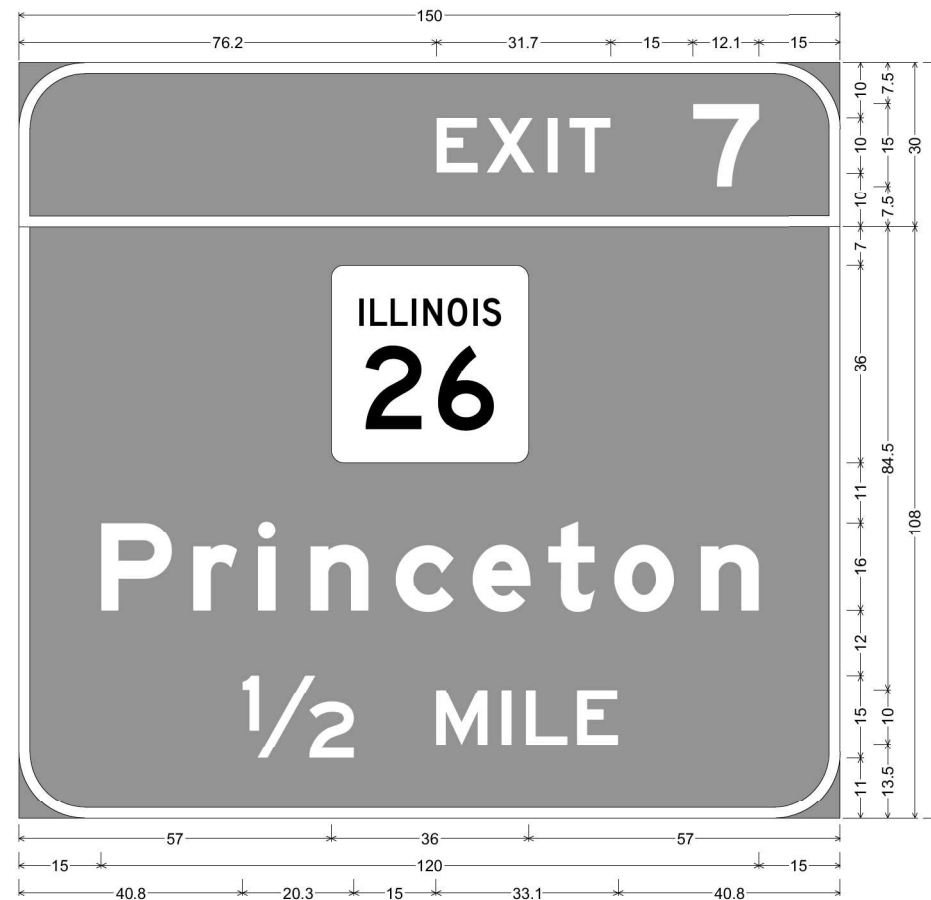
12.0" Radius, 2.0" Border, White on Green;
 "EXIT", E 2K 120% spacing; "12", E 2K;

12.0" Radius, 2.0" Border, White on Green;
 "TO", E Mod 2K; "Peoria", E Mod 2K;
 "2 MILES", E 2K;

Table of widths and spaces

32.7	E	7.5	X	1.7	8.7	2.4	I	1.8	2.1	T	7.5	15.0	I	4.5	3.0	2	12.1	15.0
22.9	T	7.4	O	1.4	8.4	15.0	29	36.0	22.9									
19.1	P	12.9	e	2.4	10.6	3.5	o	10.9	5.0	r	8.0	3.8	i	3.2	5.0	a	10.5	19.1
22.1	Z	12.2	M	15.0	9.4	2.6	I	1.8	2.6	L	7.5	1.7	E	7.5	1.4	S	8.1	22.1

PR-08, CUSTOM-114144
 STA. 518+00



12.0" Radius, 2.0" Border, White on Green;
 "EXIT 7" E 2K 120% spacing;
 12.0" Radius, 2.0" Border, White on Green;
 "Princeton" E Mod 2K; "1/2 MILE" E 2K;

PR-07, CUSTOM-150138
 STA. 505+00



12.0" Radius, 2.0" Border, White on Green;
 "EXIT 7", E 2K 120% spacing;
 12.0" Radius, 2.0" Border, White on Green;
 "Princeton", E Mod 2K; "1 MILE", E 2K;

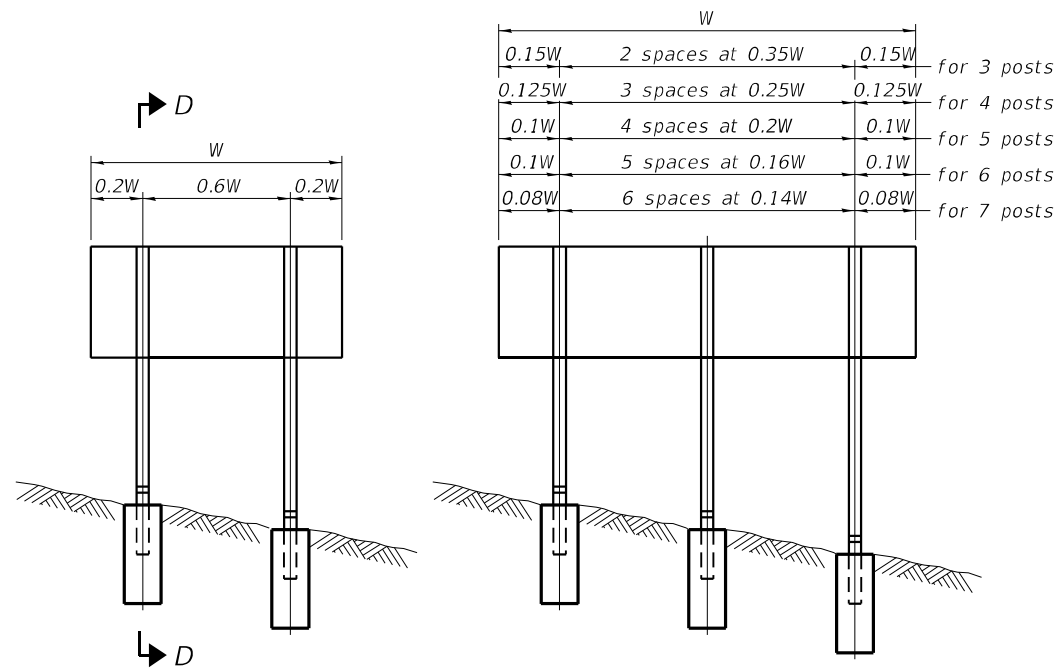
PR-11, CUSTOM-150138
 STA. 525+00

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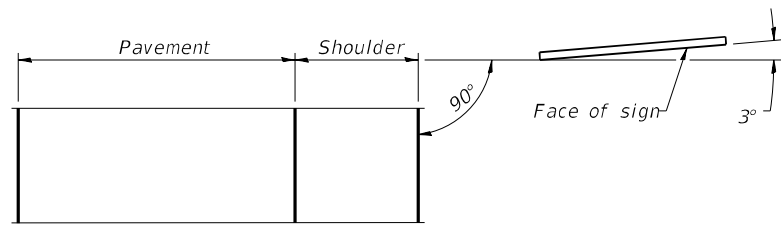
USER NAME = RGal	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 100,0000' / in.	CHECKED -	REVISED -
PLOT DATE = 1/12/2024	DATE -	REVISED -

FAI ROUTE 180 (I-180) SIGNING PLAN DETAILS			
SCALE:	SHEET	OF SHEETS	STA. TO STA.

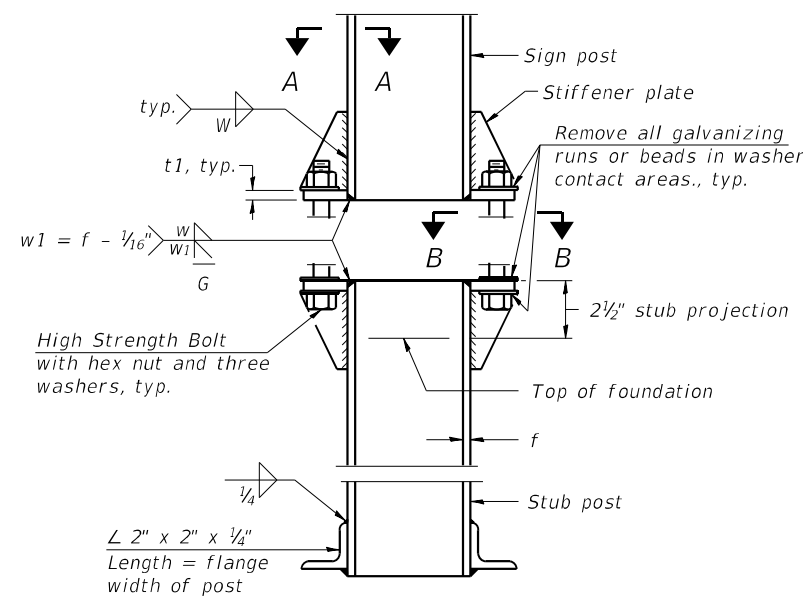
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
180	[(06-2B-1) & (06-2HB-1)]BR	BUREAU	327	130
CONTRACT NO. 66K66				
ILLINOIS FED. AID PROJECT				



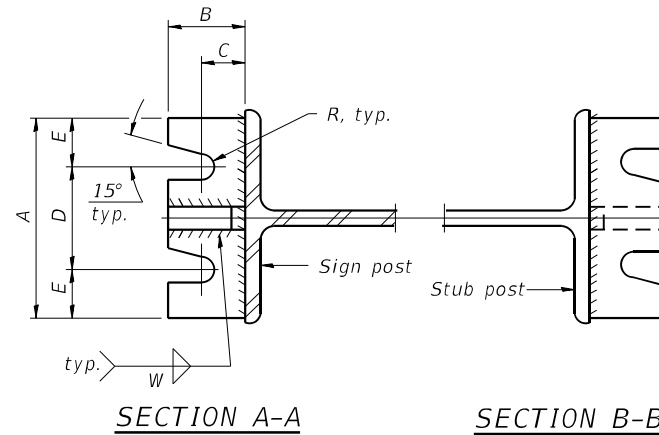
ELEVATION



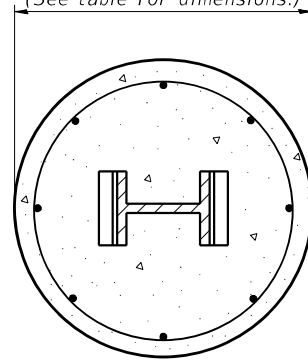
LOCATION SKETCH



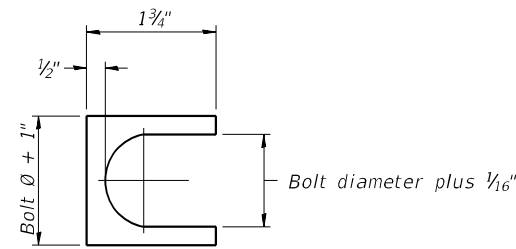
**ELEVATION
SIGN POST & STUB POST**



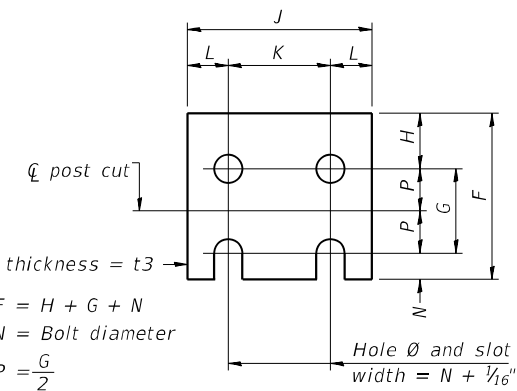
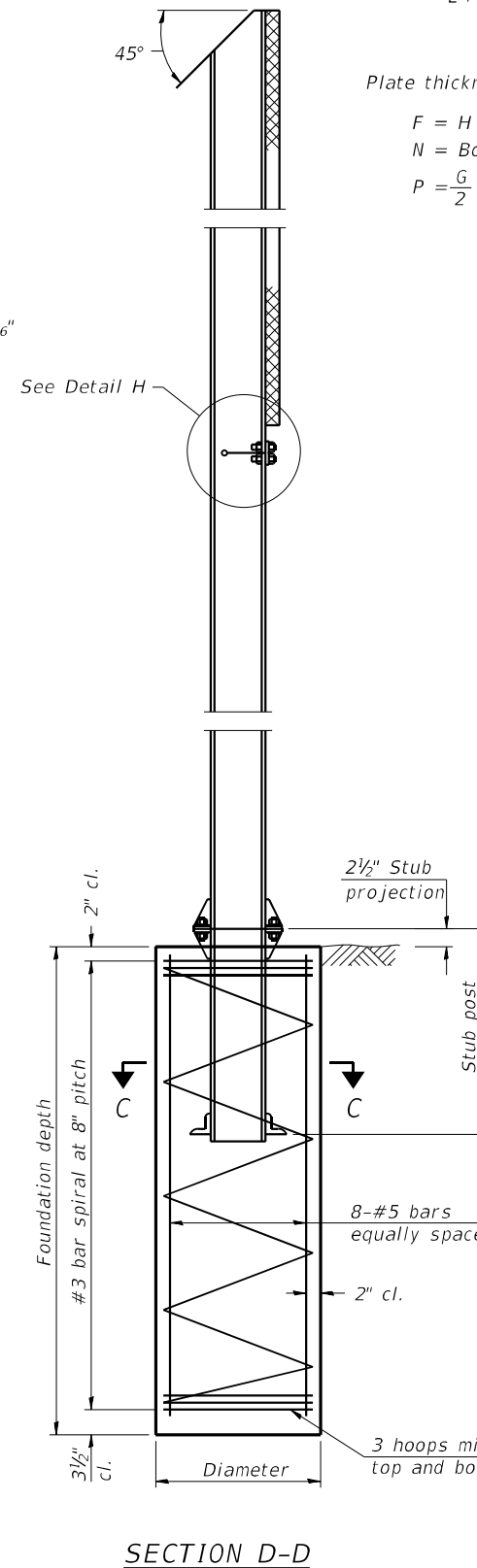
(See table for dimensions.)



SECTION C-C

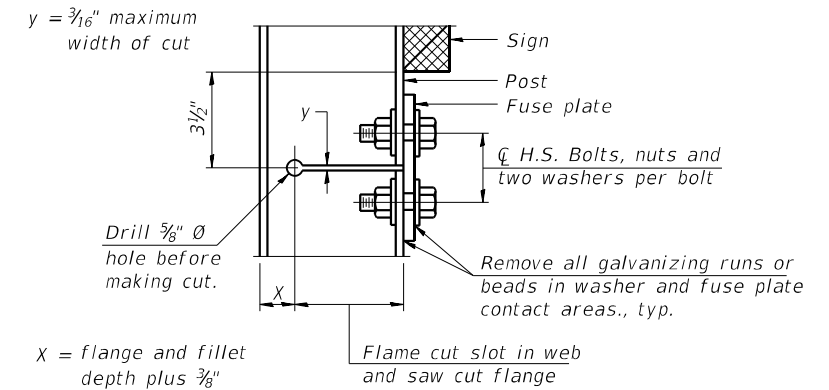


Furnish two 0.01" thick and two 0.03" thick stainless steel or brass (ASTM B36) shims per post.

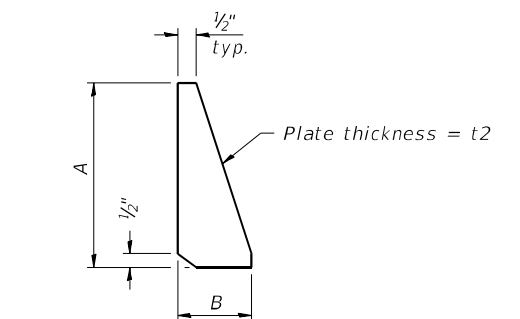


FUSE PLATE DATA		
N = Bolt Diameter	G	H
1/2"	2"	1 1/8"
5/8"	2 1/4"	1 1/4"
3/4"	2 1/2"	1 3/8"
7/8"	2 3/4"	1 1/2"
1"	3"	1 5/8"
1 1/8"	3 1/4"	1 3/4"
1 1/4"	3 1/2"	1 7/8"

FUSE PLATE DETAIL
(Install with notches down.)



DETAIL H



STIFFENER PLATE DETAIL

GENERAL NOTES

Posts shall be plumbed by using shims with post-to-stub post connection bolts snug tight only. Final tightening of all High Strength Bolts shall be in accordance with Article 727.05 and threads at the junction of the bolt and nut shall be burred or center punched to prevent the nut from loosening.

LOADING: 80 m.p.h. wind with 30% gust factor, normal to sign.

DESIGN STRESSES:
 Structural steel - 20,000 p.s.i.
 Reinforcing steel - 20,000 p.s.i.
 Concrete - 1,400 p.s.i.
 Footing soil pressure - 2,000 p.s.f.

After fabrication, the post, fuse plate and upper 6", min. of the stub post shall be hot-dip galvanized in accordance with AASHTO M111. All bolts, nuts and washers shall be hot-dip galvanized in accordance with AASHTO M232.

Work this sheet with Base Sheet BAW-A-2.

(Sheet 1 of 2)

BAW-A-1

2-17-2017

EFK Moen
Civil Engineering Design

USER NAME = RGall	DESIGNED -	REVISED -
PLOT SCALE = 100,0000' / in.	DRAWN -	REVISED -
PLOT DATE = 1/12/2024	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**BREAK-AWAY WIDE FLANGE
STEEL SIGN POST DETAILS**

SCALE: SHEET OF SHEETS STA. TO STA.

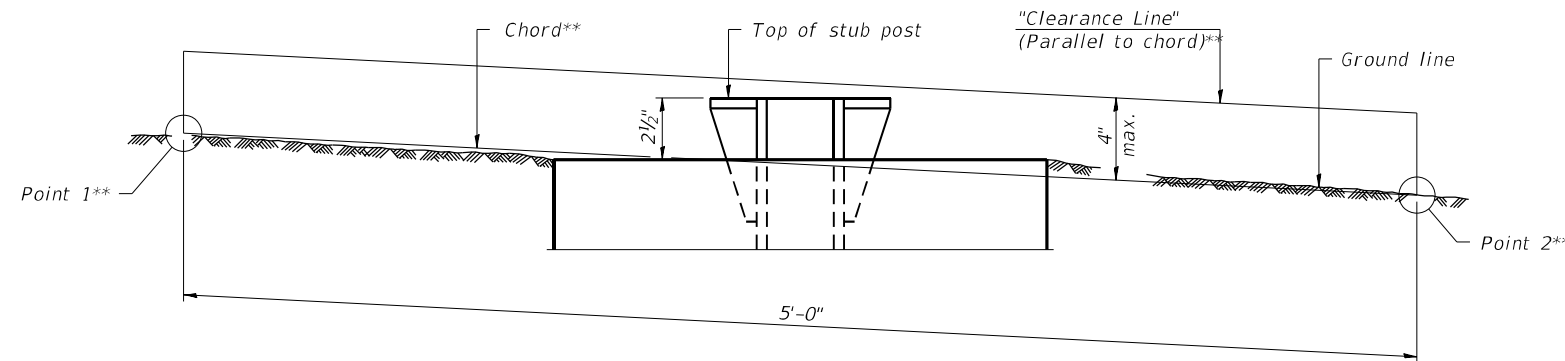
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
180	[(06-2B-1) & (06-2HB-1)]BR	BUREAU	327	131
CONTRACT NO. 66K66			ILLINOIS FED. AID PROJECT	

MODEL Path: \\...
 FILE NAME: 20170307_06 DDT_03.PBT_204-028_MO_06 L180_Resubmit_VOC_MU_Detail_Plan_PlotSheet0356K66-sh-efk-moen-civil-engineering.com

POST	CONCRETE FOUNDATION TABLE							POST TO STUB POST CONNECTION DATA								FUSE PLATE DATA						
	Foundation			Reinforcement			Stub Post Length	Bolt Size	A	B	C	D	E	t1	t2	R	W	J	K	L	t3	
	Diameter*	Minimum Depth	Concrete ⁽¹⁾ (cu. yds.)	Vertical Bars Length	Bar Spirals Diameter	Bar Spirals Length																lbs. ⁽²⁾
W6x9	2'-0"	6'-0"	0.70	5'-9"	1'-8 1/2"	79'-0"	78	2'-3"	5/8" x 3 1/4"	6"	2 1/4"	1 1/4"	3 1/2"	1 1/4"	3/4"	1/2"	1 1/32"	1/4"	4"	2 1/4"	7/8"	1/4"
W6x15	2'-0"	6'-0"	0.70	5'-9"	1'-8 1/2"	79'-0"	78	2'-6"	5/8" x 3 1/4"	6"	2 1/4"	1 1/4"	3 1/2"	1 1/4"	3/4"	1/2"	1 1/32"	1/4"	6"	3 1/2"	1 1/4"	3/8"
W8x18	2'-0"	6'-0"	0.70	5'-9"	1'-8 1/2"	79'-0"	78	2'-6"	3/4" x 3 3/4"	6"	2 1/2"	1 3/8"	3 1/4"	1 3/8"	1"	1/2"	1 3/32"	5/16"	5 1/4"	2 3/4"	1 1/4"	3/8"
W10x22	2'-6"	6'-6"	1.18	6'-3"	2'-2 1/2"	105'-0"	92	3'-0"	3/4" x 3 3/4"	6"	2 1/2"	1 3/8"	3 1/4"	1 3/8"	1"	1/2"	1 3/32"	5/16"	5 3/4"	2 3/4"	1 1/2"	1/2"
W10x26	2'-6"	7'-0"	1.27	6'-9"	2'-2 1/2"	112'-0"	98	3'-0"	7/8" x 4"	7"	2 3/4"	1 1/2"	4"	1 1/2"	1"	3/4"	1 5/32"	3/8"	5 3/4"	2 3/4"	1 1/2"	5/8"
W12x26	2'-6"	7'-9"	1.41	7'-6"	2'-2 1/2"	119'-0"	107	3'-0"	7/8" x 4"	7"	2 3/4"	1 1/2"	4"	1 1/2"	1"	3/4"	1 5/32"	3/8"	6 1/2"	3 1/2"	1 1/2"	5/8"
W14x30	3'-0"	7'-3"	1.90	7'-0"	2'-8 1/2"	145'-0"	113	3'-0"	7/8" x 4"	7"	2 3/4"	1 1/2"	4"	1 1/2"	1"	3/4"	1 5/32"	3/8"	6 3/4"	3 1/2"	1 5/8"	1/2"
W14x38	3'-0"	8'-0"	2.09	7'-9"	2'-8 1/2"	153'-0"	122	3'-6"	1" x 4 1/2"	7 1/2"	3"	1 3/4"	4"	1 3/4"	1 1/4"	3/4"	1 7/32"	3/8"	6 3/4"	3 1/2"	1 5/8"	1/2"
W16x45	3'-0"	8'-6"	2.23	8'-3"	2'-8 1/2"	162'-0"	130	3'-6"	1" x 4 1/2"	7 1/2"	3"	1 3/4"	4"	1 3/4"	1 1/4"	3/4"	1 7/32"	3/8"	7"	3 1/2"	1 3/4"	1/2"

*Dimensional changes required for varying site conditions shall be approved by the Engineer.

POST	FUSE PLATE BOLT SIZE																				
	Sign Height																				
	4'-0"	5'-0"	6'-0"	7'-0"	8'-0"	9'-0"	10'-0"	11'-0"	12'-0"	13'-0"	14'-0"	15'-0"	16'-0"	17'-0"	18'-0"	19'-0"	20'-0"	21'-0"	22'-0"	23'-0"	24'-0"
W6x9	1/2" x 1 1/2"	1/2" x 1 1/2"	1/2" x 1 1/2"	1/2" x 1 1/2"	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
W6x15	1/2" x 1 3/4"	1/2" x 1 3/4"	1/2" x 1 3/4"	5/8" x 2"	5/8" x 2"	3/4" x 2"	3/4" x 2"	3/4" x 2"	3/4" x 2"	3/4" x 2"	—	—	—	—	—	—	—	—	—	—	—
W8x18	1/2" x 1 3/4"	1/2" x 1 3/4"	1/2" x 1 3/4"	1/2" x 1 3/4"	5/8" x 2"	5/8" x 2"	3/4" x 2"	3/4" x 2"	3/4" x 2"	3/4" x 2"	—	—	—	—	—	—	—	—	—	—	—
W10x22	1/2" x 2"	1/2" x 2"	1/2" x 2"	1/2" x 2"	1/2" x 2"	5/8" x 2"	5/8" x 2"	3/4" x 2 1/4"	3/4" x 2 1/4"	3/4" x 2 1/4"	3/4" x 2 1/4"	3/4" x 2 1/4"	3/4" x 2 1/4"	—	—	—	—	—	—	—	—
W10x26	1/2" x 2"	1/2" x 2"	1/2" x 2"	1/2" x 2"	1/2" x 2"	5/8" x 2 1/4"	5/8" x 2 1/4"	3/4" x 2 1/2"	3/4" x 2 1/2"	3/4" x 2 1/2"	3/4" x 2 1/2"	3/4" x 2 1/2"	3/4" x 2 1/2"	3/4" x 2 1/2"	—	—	—	—	—	—	—
W12x26	1/2" x 2"	1/2" x 2"	1/2" x 2"	1/2" x 2"	1/2" x 2"	5/8" x 2 1/4"	5/8" x 2 1/4"	3/4" x 2 1/2"	3/4" x 2 1/2"	3/4" x 2 1/2"	3/4" x 2 1/2"	3/4" x 2 1/2"	3/4" x 2 1/2"	3/4" x 2 1/2"	3/4" x 2 1/2"	—	—	—	—	—	—
W14x30	1/2" x 2"	1/2" x 2"	1/2" x 2"	1/2" x 2"	1/2" x 2"	5/8" x 2"	5/8" x 2"	3/4" x 2 1/4"	3/4" x 2 1/4"	3/4" x 2 1/4"	3/4" x 2 1/4"	3/4" x 2 1/4"	3/4" x 2 1/4"	3/4" x 2 1/4"	3/4" x 2 1/4"	3/4" x 2 1/4"	—	—	—	—	—
W14x38	1/2" x 2"	1/2" x 2"	1/2" x 2"	1/2" x 2"	1/2" x 2"	5/8" x 2 1/4"	5/8" x 2 1/4"	3/4" x 2 1/2"	3/4" x 2 1/2"	3/4" x 2 1/2"	3/4" x 2 1/2"	3/4" x 2 1/2"	3/4" x 2 1/2"	3/4" x 2 1/2"	3/4" x 2 1/2"	3/4" x 2 1/2"	3/4" x 2 1/2"	3/4" x 2 1/2"	3/4" x 2 1/2"	3/4" x 2 1/2"	3/4" x 2 1/2"
W16x45	—	1/2" x 2"	1/2" x 2"	1/2" x 2"	1/2" x 2"	1/2" x 2"	1/2" x 2"	5/8" x 2 1/4"	5/8" x 2 1/4"	5/8" x 2 1/4"	3/4" x 2 1/2"	3/4" x 2 1/2"	3/4" x 2 1/2"	3/4" x 2 1/2"	3/4" x 2 1/2"	3/4" x 2 1/2"	3/4" x 2 1/2"	3/4" x 2 1/2"	3/4" x 2 1/2"	3/4" x 2 1/2"	3/4" x 2 1/2"



ELEVATION
GROUND LINE & STUB POST

** For all "Point 1" and "Point 2" locations, "Clearance Line" must be at or above top of stub post.

- ① Quantity includes all concrete necessary for one foundation.
- ② Includes reinforcement bars and spiral hooping for one foundation.

BAW-A-2

2-17-2017

(Sheet 2 of 2)

EFK Moen
Civil Engineering Design

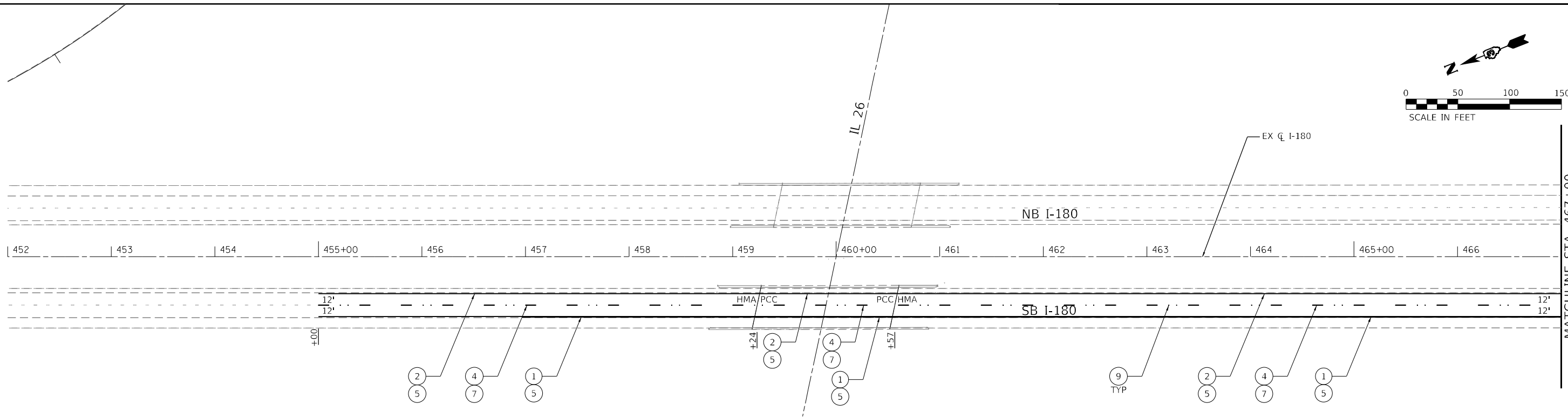
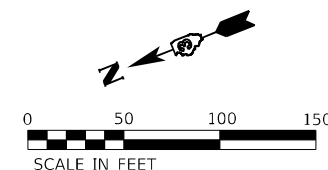
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

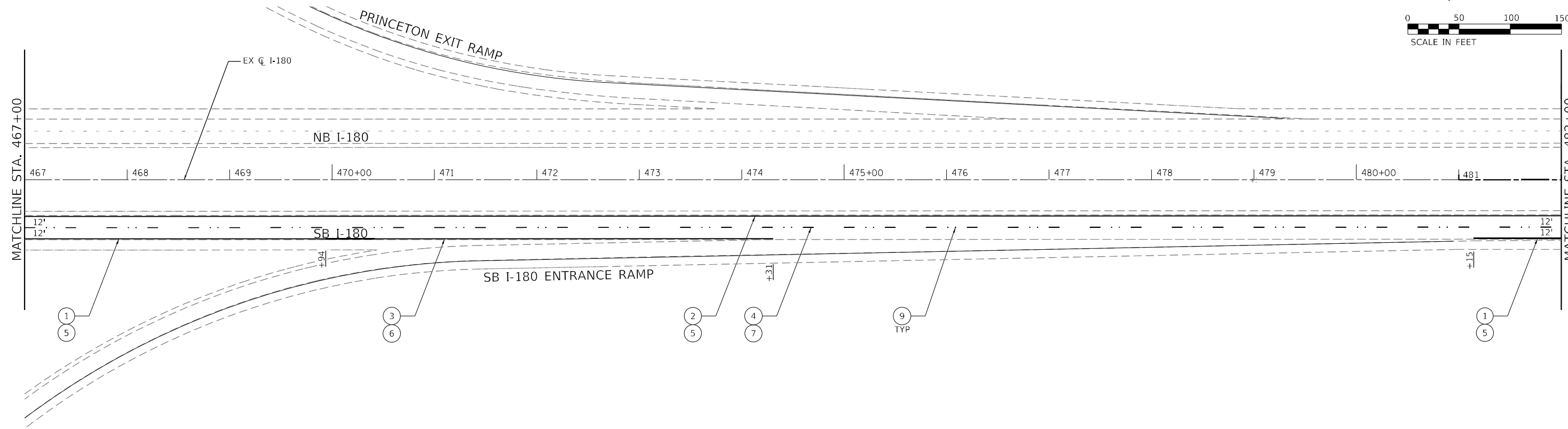
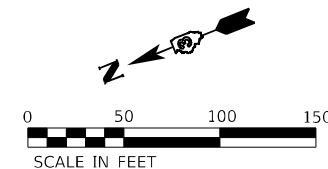
BREAK-AWAY WIDE FLANGE
STEEL SIGN POST TABLES

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
180	[(06-2B-1) & (06-2HB-1)]BR	BUREAU	327	132
CONTRACT NO. 66K66				
ILLINOIS FED. AID PROJECT				



PAVEMENT MARKING LEGEND	
①	EPOXY PAVEMENT MARKING - LINE 4" (WHITE)
②	EPOXY PAVEMENT MARKING - LINE 4" (YELLOW)
③	EPOXY PAVEMENT MARKING - LINE 8" (WHITE)
④	PREFORMED PLASTIC PAVEMENT MARKING, TYPE D - LINE 9" (CONTRAST, 10' - DASH, 30' - SKIP, WHITE)
⑤	GROOVING FOR RECESSED PAVEMENT MARKING, 5"
⑥	GROOVING FOR RECESSED PAVEMENT MARKING, 9"
⑦	GROOVING FOR RECESSED PAVEMENT MARKING, 10"
⑧	RAISED REFLECTIVE PAVEMENT MARKER (2 PER 80' C-C SPACING, TYP. CRYSTAL)
⑨	RAISED REFLECTIVE PAVEMENT MARKER, REFLECTOR REPLACEMENT
⑩	SHOULDER RUMBLE STRIPS, 16 INCH



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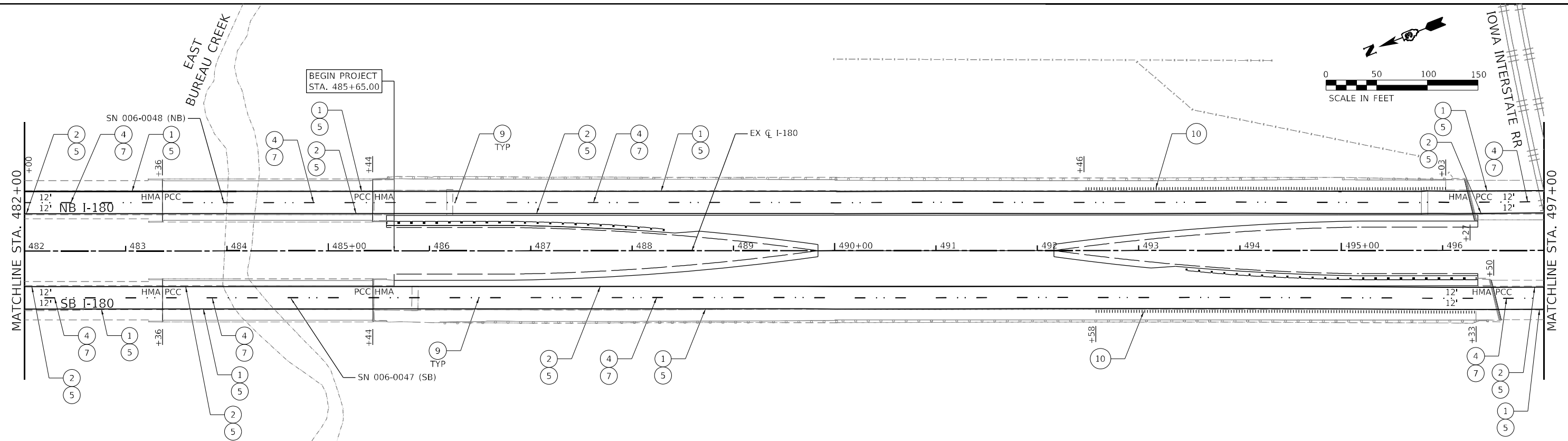
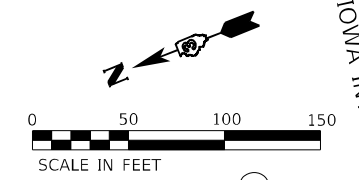


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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

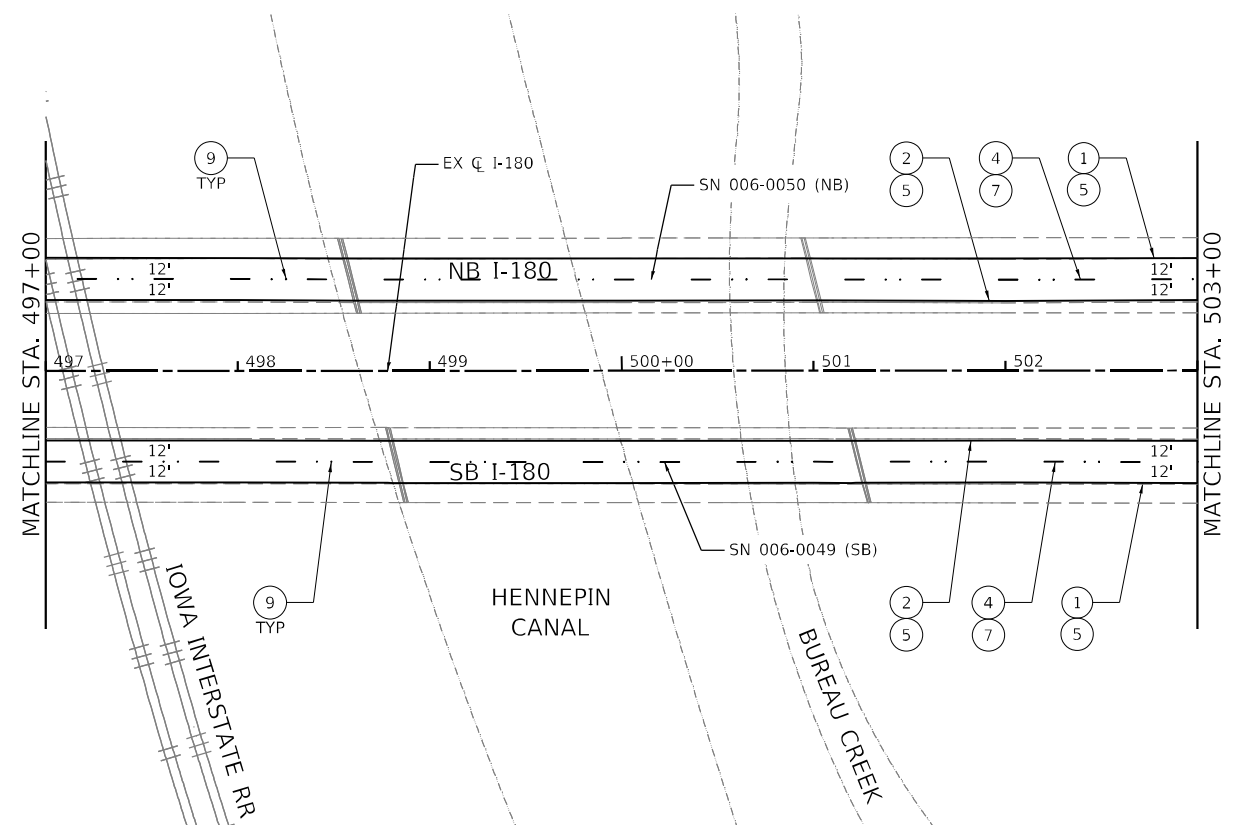
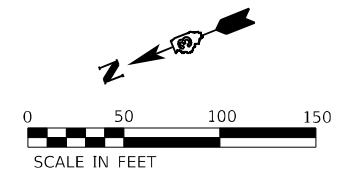
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SCALE: 1" = 50'	SHEET 1 OF 5 SHEETS	STA. 455+00 TO STA. 482+00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
180	[(06-2B-1) & (06-2HB-1)]BR	BUREAU	327	133
CONTRACT NO. 66K66				
ILLINOIS FED. AID PROJECT				



PAVEMENT MARKING LEGEND

① EPOXY PAVEMENT MARKING - LINE 4" (WHITE)	⑥ GROOVING FOR RECESSED PAVEMENT MARKING, 9"
② EPOXY PAVEMENT MARKING - LINE 4" (YELLOW)	⑦ GROOVING FOR RECESSED PAVEMENT MARKING, 10"
③ EPOXY PAVEMENT MARKING - LINE 8" (WHITE)	⑧ RAISED REFLECTIVE PAVEMENT MARKER (2 PER 80' C-C SPACING, TYP. CRYSTAL)
④ PREFORMED PLASTIC PAVEMENT MARKING, TYPE D - LINE 9" (CONTRAST, 10' - DASH, 30' - SKIP, WHITE)	⑨ RAISED REFLECTIVE PAVEMENT MARKER, REFLECTOR REPLACEMENT
⑤ GROOVING FOR RECESSED PAVEMENT MARKING, 5"	⑩ SHOULDER RUMBLE STRIPS, 16 INCH



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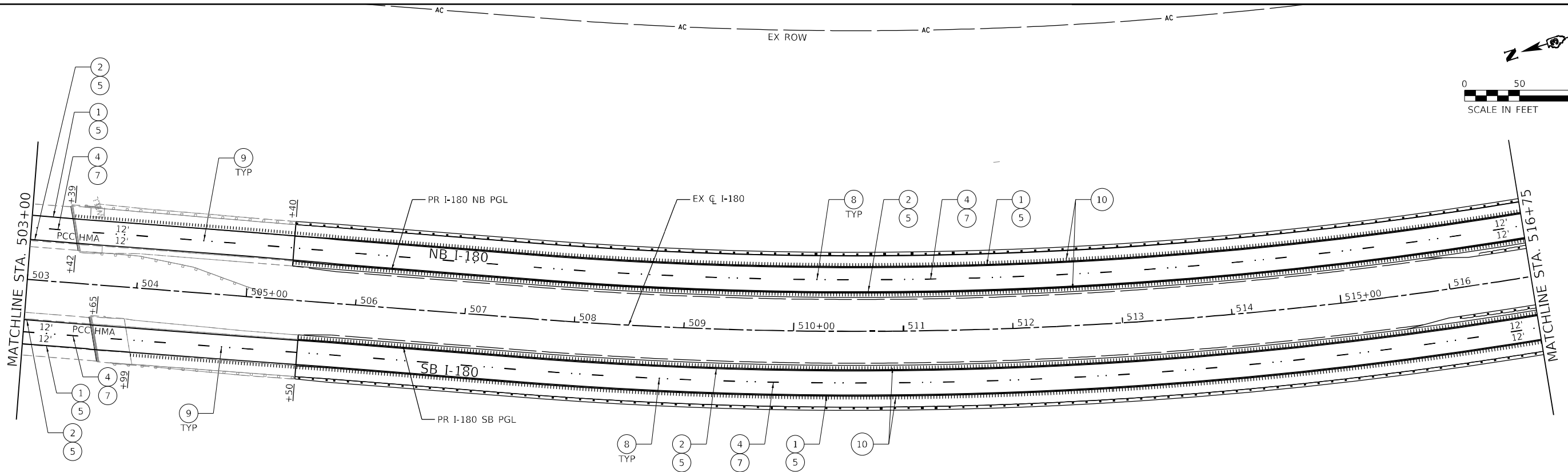
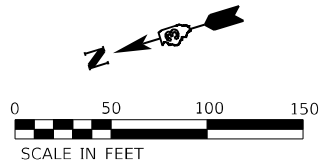
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	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FAI ROUTE 180 (I-180)
PAVEMENT MARKING PLAN

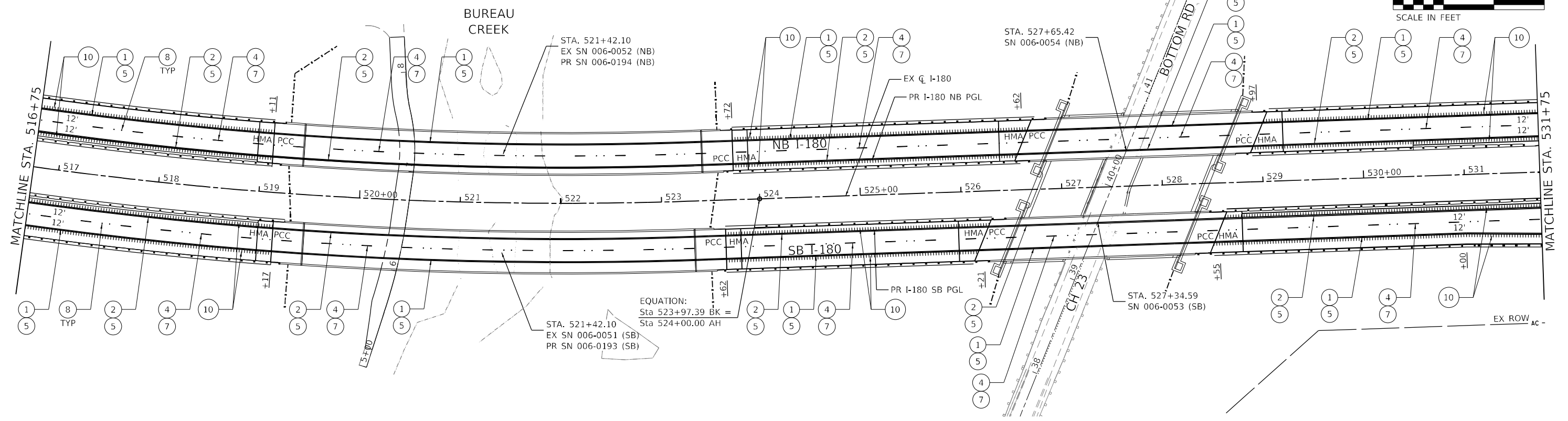
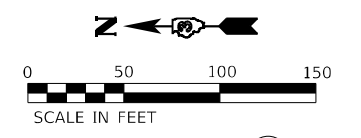
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
180	[(06-2B-1) & (06-2HB-1)]BR	BUREAU	327	134
CONTRACT NO. 66K66				
ILLINOIS FED. AID PROJECT				



PAVEMENT MARKING LEGEND

① EPOXY PAVEMENT MARKING - LINE 4" (WHITE)	⑥ GROOVING FOR RECESSED PAVEMENT MARKING, 9"
② EPOXY PAVEMENT MARKING - LINE 4" (YELLOW)	⑦ GROOVING FOR RECESSED PAVEMENT MARKING, 10"
③ EPOXY PAVEMENT MARKING - LINE 8" (WHITE)	⑧ RAISED REFLECTIVE PAVEMENT MARKER (2 PER 80' C-C SPACING, TYP. CRYSTAL)
④ PREFORMED PLASTIC PAVEMENT MARKING, TYPE D - LINE 9" (CONTRAST, 10' - DASH, 30' - SKIP, WHITE)	⑨ RAISED REFLECTIVE PAVEMENT MARKER, REFLECTOR REPLACEMENT
⑤ GROOVING FOR RECESSED PAVEMENT MARKING, 5"	⑩ SHOULDER RUMBLE STRIPS, 16 INCH



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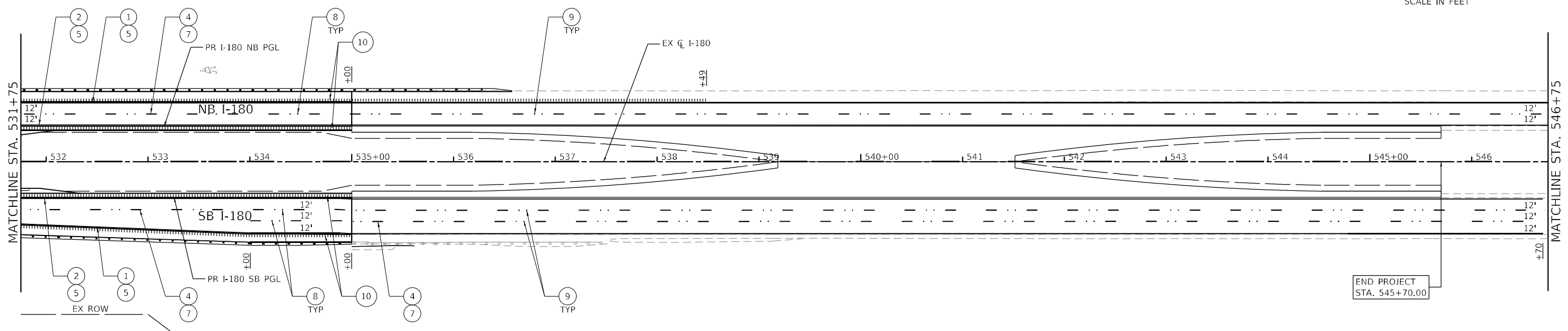
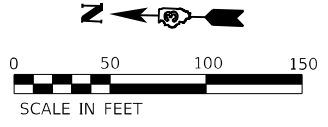
EFK Moen
Civil Engineering Design

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	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

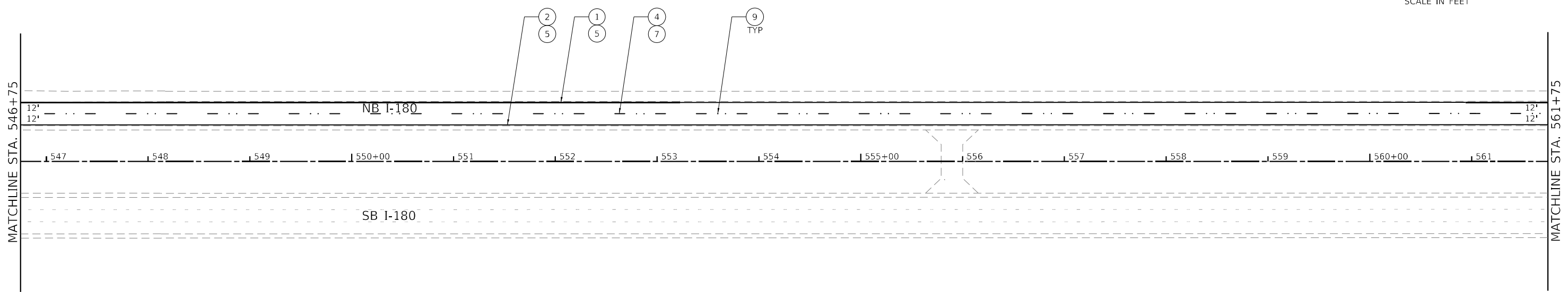
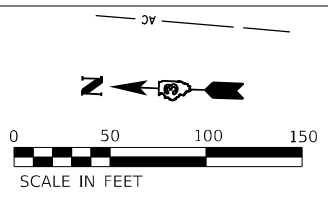
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
180	[(06-2B-1) & (06-2HB-1)]BR	BUREAU	327	135
CONTRACT NO. 66K66				
ILLINOIS FED. AID PROJECT				



PAVEMENT MARKING LEGEND

① EPOXY PAVEMENT MARKING - LINE 4" (WHITE)	⑥ GROOVING FOR RECESSED PAVEMENT MARKING, 9"
② EPOXY PAVEMENT MARKING - LINE 4" (YELLOW)	⑦ GROOVING FOR RECESSED PAVEMENT MARKING, 10"
③ EPOXY PAVEMENT MARKING - LINE 8" (WHITE)	⑧ RAISED REFLECTIVE PAVEMENT MARKER (2 PER 80' C-C SPACING, TYP. CRYSTAL)
④ PREFORMED PLASTIC PAVEMENT MARKING, TYPE D - LINE 9" (CONTRAST, 10' - DASH, 30' - SKIP, WHITE)	⑨ RAISED REFLECTIVE PAVEMENT MARKER, REFLECTOR REPLACEMENT
⑤ GROOVING FOR RECESSED PAVEMENT MARKING, 5"	⑩ SHOULDER RUMBLE STRIPS, 16 INCH



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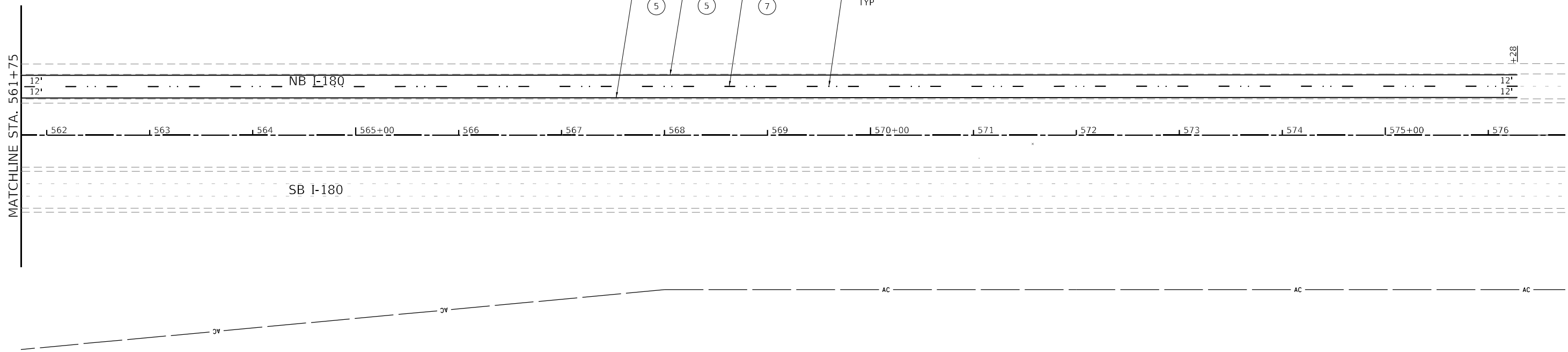
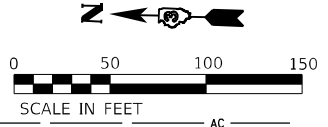


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	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

FAI ROUTE 180 (I-180) PAVEMENT MARKING PLAN			
SCALE: 1" = 50'	SHEET 4 OF 5 SHEETS	STA. 531+75 TO STA. 561+75	

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
180	[(06-2B-1) & (06-2HB-1)]BR	BUREAU	327	136
CONTRACT NO. 66K66				
ILLINOIS FED. AID PROJECT				



PAVEMENT MARKING LEGEND

- | | |
|--|---|
| ① EPOXY PAVEMENT MARKING - LINE 4" (WHITE) | ⑥ GROOVING FOR RECESSED PAVEMENT MARKING, 9" |
| ② EPOXY PAVEMENT MARKING - LINE 4" (YELLOW) | ⑦ GROOVING FOR RECESSED PAVEMENT MARKING, 10" |
| ③ EPOXY PAVEMENT MARKING - LINE 8" (WHITE) | ⑧ RAISED REFLECTIVE PAVEMENT MARKER (2 PER 80' C-C SPACING, TYP. CRYSTAL) |
| ④ PREFORMED PLASTIC PAVEMENT MARKING, TYPE D - LINE 9" (CONTRAST, 10' - DASH, 30' - SKIP, WHITE) | ⑨ RAISED REFLECTIVE PAVEMENT MARKER, REFLECTOR REPLACEMENT |
| ⑤ GROOVING FOR RECESSED PAVEMENT MARKING, 5" | ⑩ SHOULDER RUMBLE STRIPS, 16 INCH |

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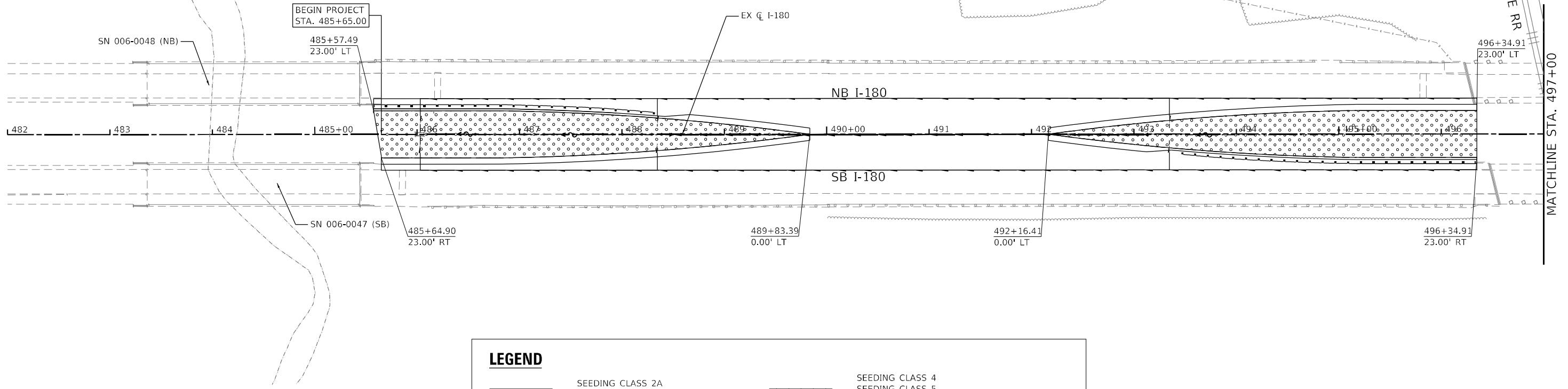
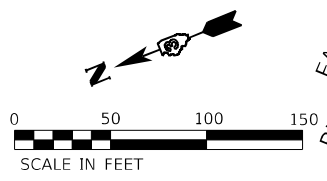


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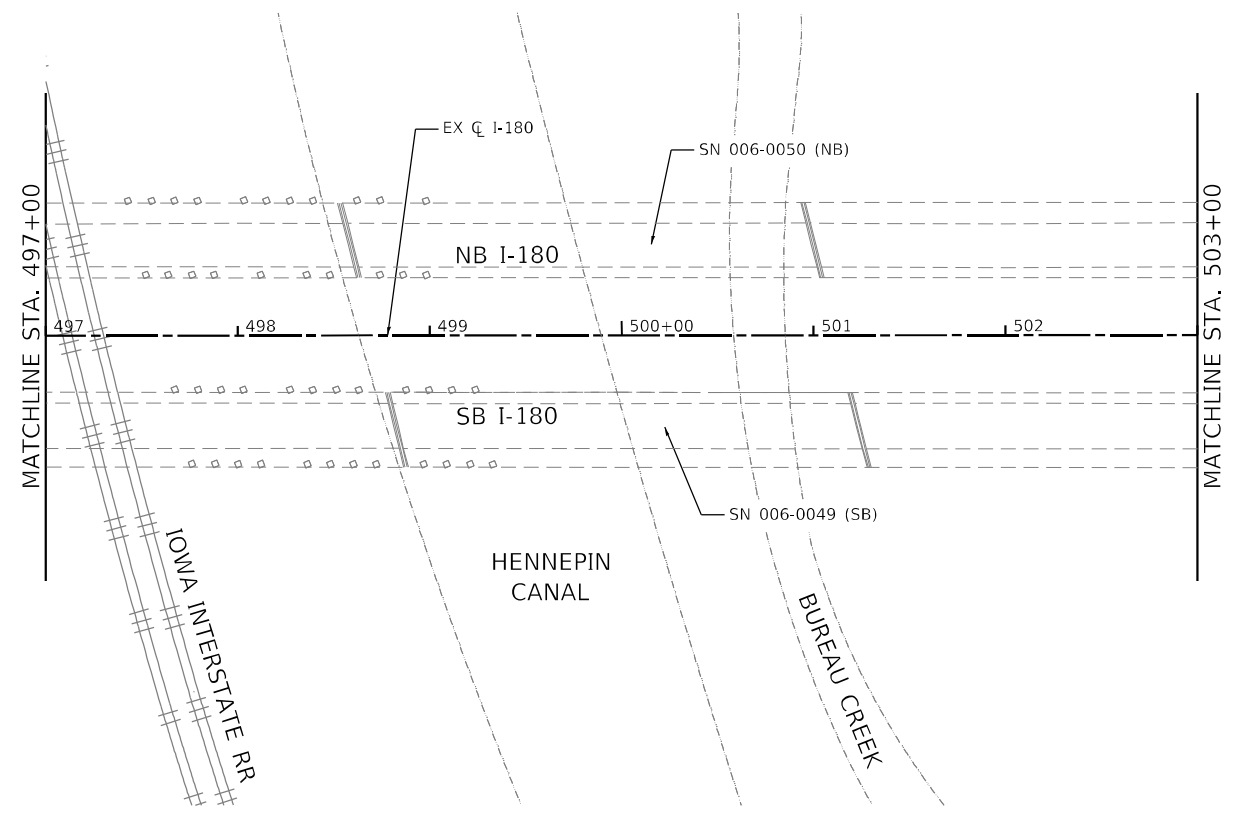
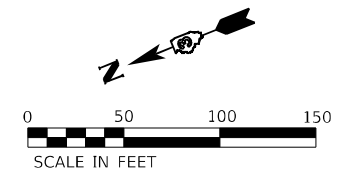
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

FAI ROUTE 180 (I-180) PAVEMENT MARKING PLAN			
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
180	[(06-2B-1) & (06-2HB-1)]BR	BUREAU	327	137
			CONTRACT NO. 66K66	
ILLINOIS FED. AID PROJECT				



LEGEND	
	SEEDING CLASS 2A NITROGEN FERTILIZER NUTRIENT PHOSPHORUS FERTILIZER NUTRIENT POTASSIUM FERTILIZER NUTRIENT
	SEEDING CLASS 4 SEEDING CLASS 5 NITROGEN FERTILIZER NUTRIENT PHOSPHORUS FERTILIZER NUTRIENT POTASSIUM FERTILIZER NUTRIENT



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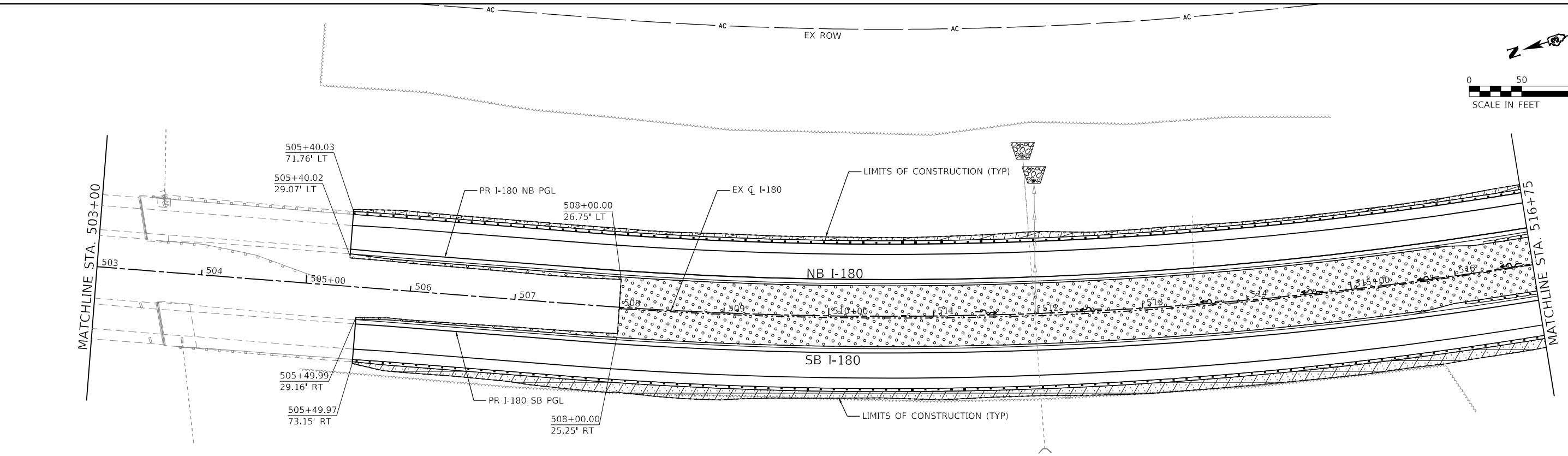
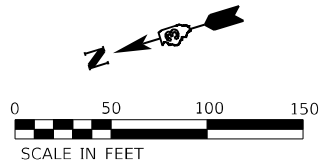
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	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FAI ROUTE 180 (I-180)
LANDSCAPING PLAN

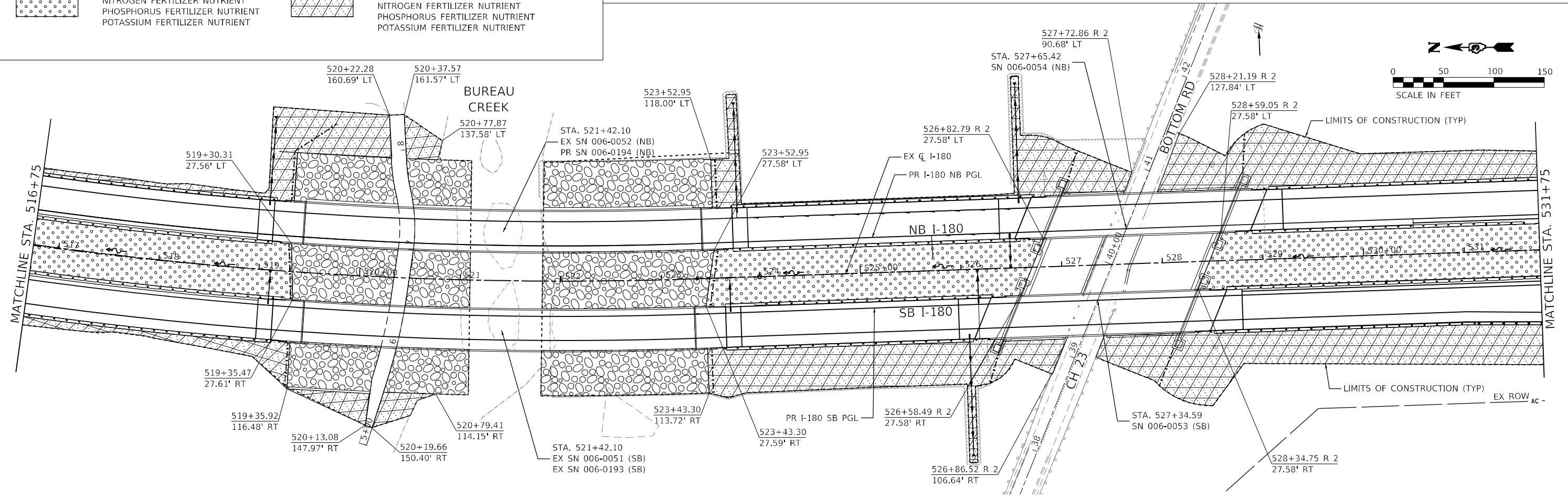
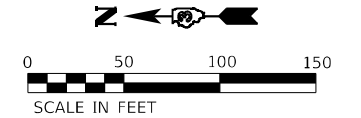
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
180	[(06-2B-1) & (06-2HB-1)]BR	BUREAU	327	138
				CONTRACT NO. 66K66
ILLINOIS FED. AID PROJECT				



LEGEND

	SEEDING CLASS 2A NITROGEN FERTILIZER NUTRIENT PHOSPHORUS FERTILIZER NUTRIENT POTASSIUM FERTILIZER NUTRIENT		SEEDING CLASS 4 SEEDING CLASS 5 NITROGEN FERTILIZER NUTRIENT PHOSPHORUS FERTILIZER NUTRIENT POTASSIUM FERTILIZER NUTRIENT
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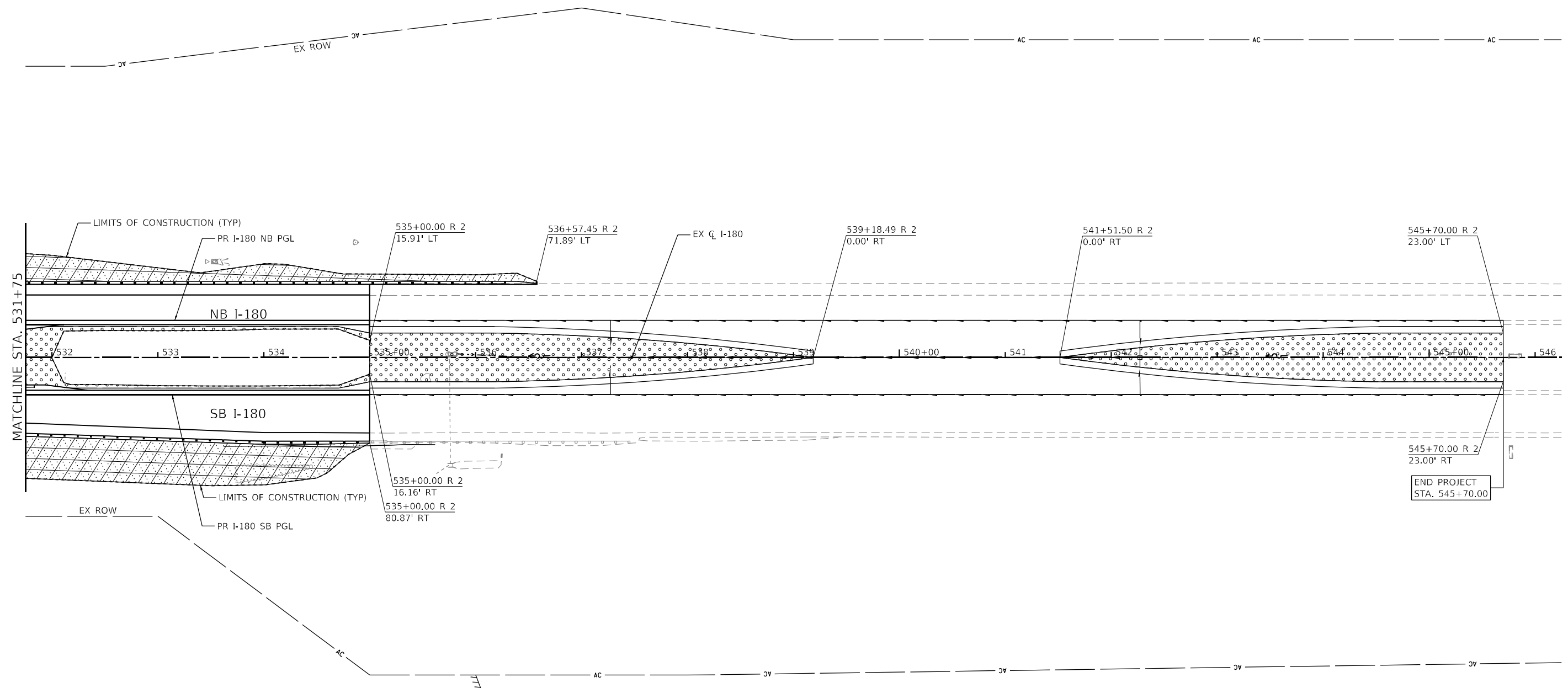
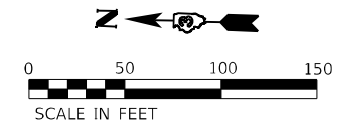
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	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FAI ROUTE 180 (I-180)
LANDSCAPING PLAN

SCALE: 1" = 50' SHEET 2 OF 3 SHEETS STA. 503+00 TO STA. 531+75

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
180	[(06-2B-1) & (06-2HB-1)]BR	BUREAU	327	139
CONTRACT NO. 66K66				
ILLINOIS FED. AID PROJECT				



LEGEND

- SEEDING CLASS 2A
NITROGEN FERTILIZER NUTRIENT
PHOSPHORUS FERTILIZER NUTRIENT
POTASSIUM FERTILIZER NUTRIENT
- SEEDING CLASS 4
SEEDING CLASS 5
NITROGEN FERTILIZER NUTRIENT
PHOSPHORUS FERTILIZER NUTRIENT
POTASSIUM FERTILIZER NUTRIENT

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PLOT DATE = 1/12/2024	DATE -	REVISED -	

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**FAI ROUTE 180 (I-180)
LANDSCAPING PLAN**

SCALE: 1" = 50' SHEET 3 OF 3 SHEETS STA. 531+75 TO STA. 545+70

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
180	[(06-2B-1) & (06-2HB-1)]BR	BUREAU	327	140
CONTRACT NO. 66K66				
ILLINOIS FED. AID PROJECT				

GENERAL NOTES

Fasteners shall be ASTM F 3125 Grade A325 Type 1, mechanically galvanized bolts in painted areas. Fasteners shall be ASTM F3125 Grade A325 Type 3 weathering steel bolts in unpainted areas. Bolts 1/2 in. diameter, holes 5/16 in. diameter, unless otherwise noted.

Calculated weight of Structural Steel = 1,551,200 lb (Grade 50W)
All structural steel shall be AASHTO M270 Grade 50W (except expansion joints and expansion bearings which shall be AASHTO M270 Grade 50).

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.

A film forming Concrete Sealer shall be applied to the designated areas of the abutments.

Layout of the slope protection system may be varied to suit ground conditions in the field as directed by the Engineer.

All structural steel and exposed surfaces and bearings within a distance of 10 ft. each way from the deck joints shall be painted using the Inorganic Zinc-Rich/Waterborne Acrylic paint system as specified in Section 506 of the Standard Specifications.

All steel within 10 feet of the piers shall be painted.

Deck slab repairs may be required on the Stage 1 Traffic existing bridge (SN 006-0052) before shifting traffic to it. See Roadway Plans for more information and quantities.

STA. 521+42.10
BUILT BY
STATE OF ILLINOIS
F.A.I. Rte. 180 Sec. (06-2B-1)ES
LOADING HL-93
STR. NO. 006-0193

STA. 521+42.10
BUILT BY
STATE OF ILLINOIS
F.A.I. Rte. 180 Sec. (06-2B-1)ES
LOADING HL-93
STR. NO. 006-0194

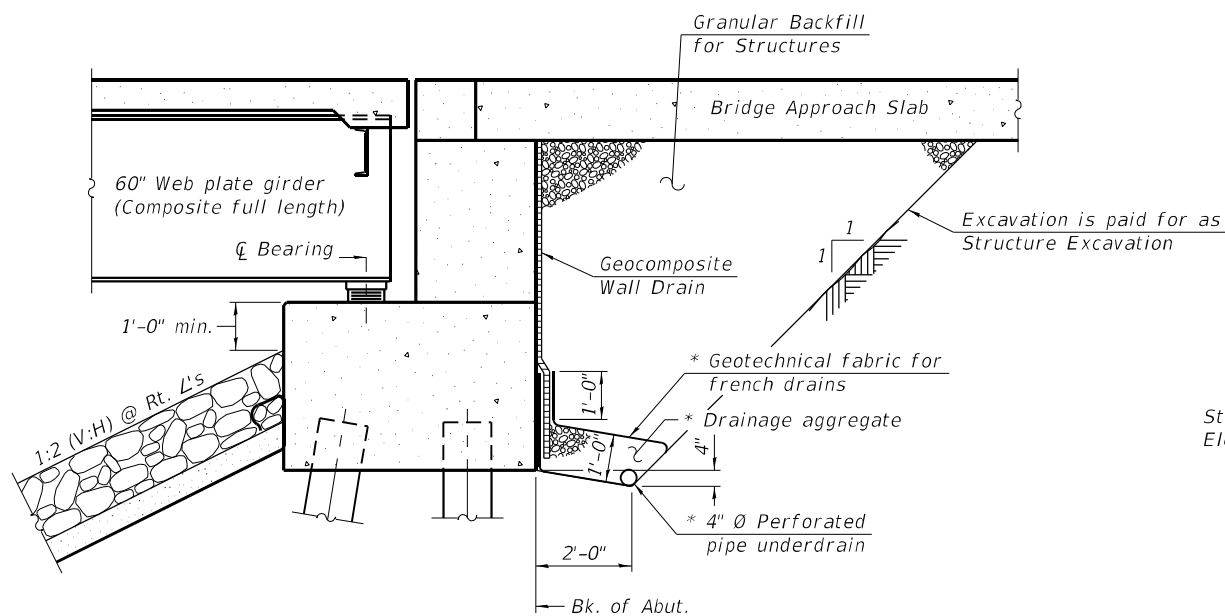
NAME PLATE
See Std. 515001

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Stone Riprap, Class A5	Sq. Yd.		8,979	8,979
Filter Fabric	Sq. Yd.		8,979	8,979
Removal Of Existing Structures	Each		2	2
Structure Excavation	Cu. Yd.		1,007	1,007
Concrete Structures	Cu. Yd.		817.8	817.8
Concrete Superstructure	Cu. Yd.	1,127.6		1,127.6
Protective Coat	Sq. Yd.	4,801		4,801
Concrete Superstructure (Approach Slab)	Cu. Yd.	229.2		229.2
Furnishing And Erecting Structural Steel	L. Sum.	0.5		0.5
Stud Shear Connectors	Each	17,612		17,612
Reinforcement Bars	Pound		265,500	265,500
Reinforcement Bars, Epoxy Coated	Pound	391,280	118,110	509,390
Bar Splicers	Each		208	208
Mechanical Splicers	Each		816	816
Furnishing Metal Shell Piles 14" X 0.312"	Foot		2,496	2,496
Driving Piles	Foot		2,496	2,496
Test Pile Metal Shells	Each		4	4
Pile Shoes	Each		52	52
Name Plates	Each	2		2
Drilled Shaft In Soil	Cu. Yd.		801.0	801.0
Drilled Shaft In Rock	Cu. Yd.		174.8	174.8
Preformed Joint Strip Seal	Foot	168		168
Elastomeric Bearing Assembly, Type I	Each	24		24
Anchor Bolts, 3/4"	Each	48		48
Anchor Bolts, 1 1/4"	Each	48		48
Granular Backfill For Structures	Cu. Yd.		378	378
Concrete Sealer	Sq. Ft.		2,401	2,401
Geocomposite Wall Drain	Sq. Yd.		324	324
Pipe Underdrains For Structures 4"	Foot		300	300
Crosshole Sonic Logging Access Ducts	Foot		1,153	1,153
Crosshole Sonic Logging Testing	Each		12	12
Bridge Deck Grooving (Longitudinal)	Sq. Yd.	2,407		2,407
Bar Terminators	Each	120		120
Drainage Scuppers, DS-11	Each	6		6
Diamond Grinding (Bridge Section)	Sq. Yd.	3,849		3,849

INDEX OF SHEETS

- 1 General Plan and Elevation
- 2 General Data
- 3 Offset Sketch
- 4 Footing Layout
- 5 Temporary Concrete Barrier
- 6-10 Top of Slab Elevations (SB)
- 11-15 Top of Slab Elevations (NB)
- 16 Top of North Approach Slab Elevations (SB)
- 17 Top of South Approach Slab Elevations (SB)
- 18 Top of North Approach Slab Elevations (NB)
- 19 Top of South Approach Slab Elevations (NB)
- 20-21 Superstructure (SB)
- 22-23 Superstructure Details (SB)
- 24 Diaphragm Details (SB)
- 25-26 Superstructure (NB)
- 27-28 Superstructure Details (NB)
- 29 Diaphragm Details (NB)
- 30-31 Bridge Approach Slab Details (SB)
- 32-33 Bridge Approach Slab Details (NB)
- 34 Modified Preformed Joint Strip Seal
- 35 Drainage Scuppers, DS-11
- 36-37 Steel Framing Plan (SB)
- 38-39 Steel Framing Plan (NB)
- 40-41 Structural Steel Details
- 42 Bearing Details (SB)
- 43-45 North Abutment (SB)
- 46-48 South Abutment (SB)
- 49-51 North Abutment (NB)
- 52-54 South Abutment (NB)
- 55 Pier 1 Details (SB)
- 56 Pier 2 Details (SB)
- 57 Pier 1 Details (NB)
- 58 Pier 2 Details (NB)
- 59 Metal Shell Pile Details
- 60 Concrete Parapet Slipforming Option
- 61 Bar Splicer Assembly and Mechanical Splicer Details
- 62-80 Soil Boring Logs

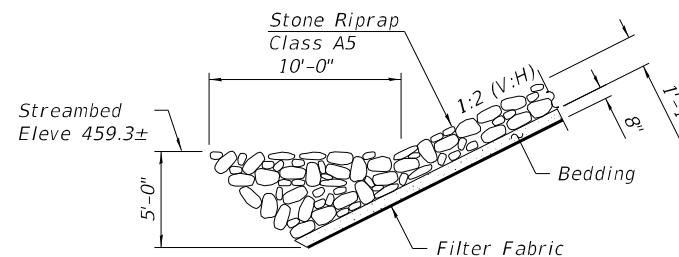


SECTION THRU PILE SUPPORTED STUB ABUTMENT
(Horiz. dim. at Rt. L's)

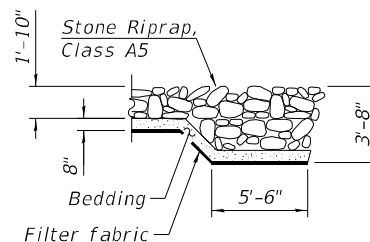
* Included in the cost of Pipe Underdrains for Structures.

Note:

All drainage system components shall extend parallel to the abutment back wall until they intersect the wingwalls or 2'-0" from the end of the wingwalls when the wings are parallel to the abutment. The pipe shall extend under the wingwall, if necessary, until intersecting the side slopes. The pipes shall drain into concrete headwalls. (See Article 601.05 of the Standard Specifications and Highway Standard 601101).



SECTION A-A



SECTION B-B

WATERWAY INFORMATION

		Exist. Low Grade Elev. 497.63 at Sta. 519+55		Prop. Low Grade Elev. 496.13 at Sta. 519+44		
Drainage Area = 371 mi ²						
Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft. Exist. Prop.	Nat. H.W.E. Exist. Prop.	Head - Ft. Exist. Prop.	Headwater El. Exist. Prop.
Design	10	17400	1913 1964	473.7	2.1 2.0	475.8 475.7
Base	50	27200	2262 2346	475.2	2.3 2.2	477.5 477.4
Scour Check	100	31400	2382 2478	475.7	2.4 2.3	478.1 478.0
Max. Calc.	200	35500	2494 2601	476.2	2.6 2.5	478.8 478.7
	500	40900	2631 2752	476.7	2.8 2.7	479.5 479.4

10 year velocity through existing bridge = 4.9 fps
10 year velocity through prop. bridge = 4.9 fps

DESIGN SCOUR ELEVATION TABLE (SB)

Event / Limit	Design Scour Elevations (ft.)				
	State	N. Abut.	Pier 1	Pier 2	S. Abut.
Q100	492.3	429.3	429.3	503.6	5
Q200	492.3	427.7	427.7	503.6	
Design	492.3	429.3	429.3	503.6	
Check	492.3	427.7	427.7	503.6	

DESIGN SCOUR ELEVATION TABLE (NB)

Event / Limit	Design Scour Elevations (ft.)				
	State	N. Abut.	Pier 1	Pier 2	S. Abut.
Q100	491.7	429.3	429.3	503.0	5
Q200	491.7	427.7	427.7	503.0	
Design	491.7	429.3	429.3	503.0	
Check	491.7	427.7	427.7	503.0	

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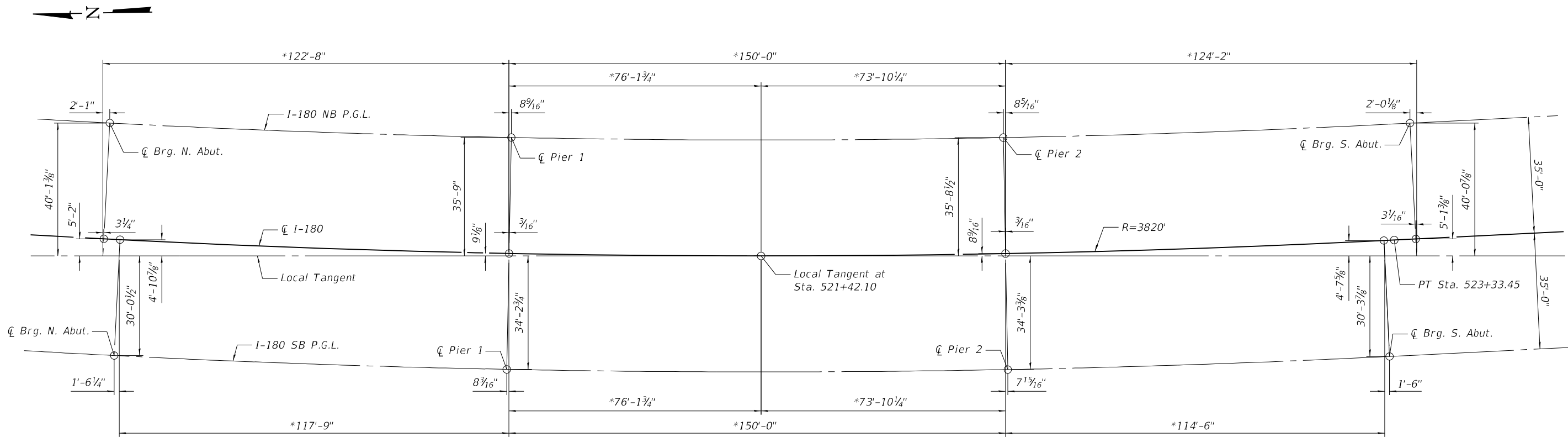
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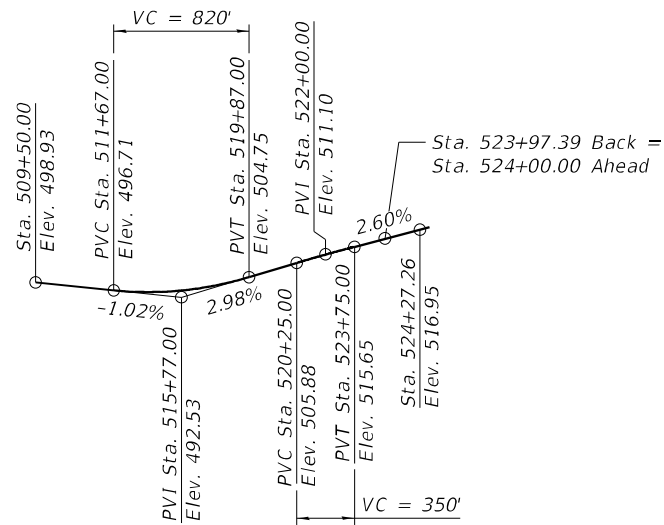
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STRUCTURE NO. 006-0193 (SB) & 006-0194 (NB)

SHEET 2 OF 80 SHEETS

F.A.I. RTE. 180	SECTION (06-2B-1)ES	COUNTY BUREAU	TOTAL SHEETS 327	SHEET NO. 142
CONTRACT NO. 66K66			ILLINOIS FED. AID PROJECT	

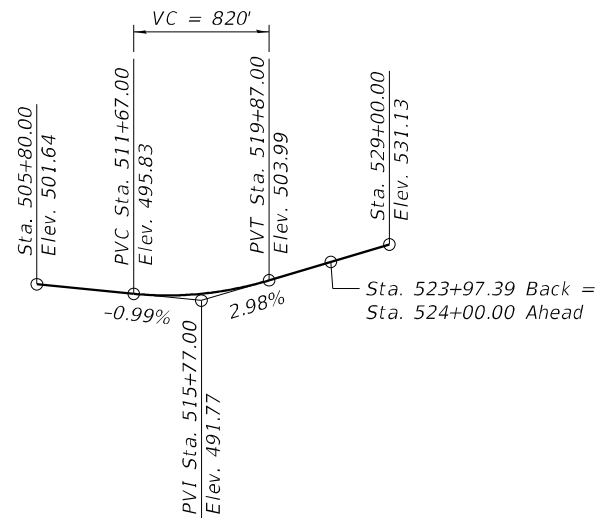


OFFSET SKETCH
 (All ζ Brgs. are radial to ζ I-180)
 * Measured along local tangent



PROFILE GRADE

(Along I-180 NB P.G.L.; 35' Lt. ζ I-180)
 Up to 1/4 inch to be ground off the bridge deck and the bridge approach slab. The Profile Grade shows the final grade after grinding.



PROFILE GRADE

(Along I-180 SB P.G.L.; 35' Rt. ζ I-180)
 Up to 1/4 inch to be ground off the bridge deck and the bridge approach slab. The Profile Grade shows the final grade after grinding.

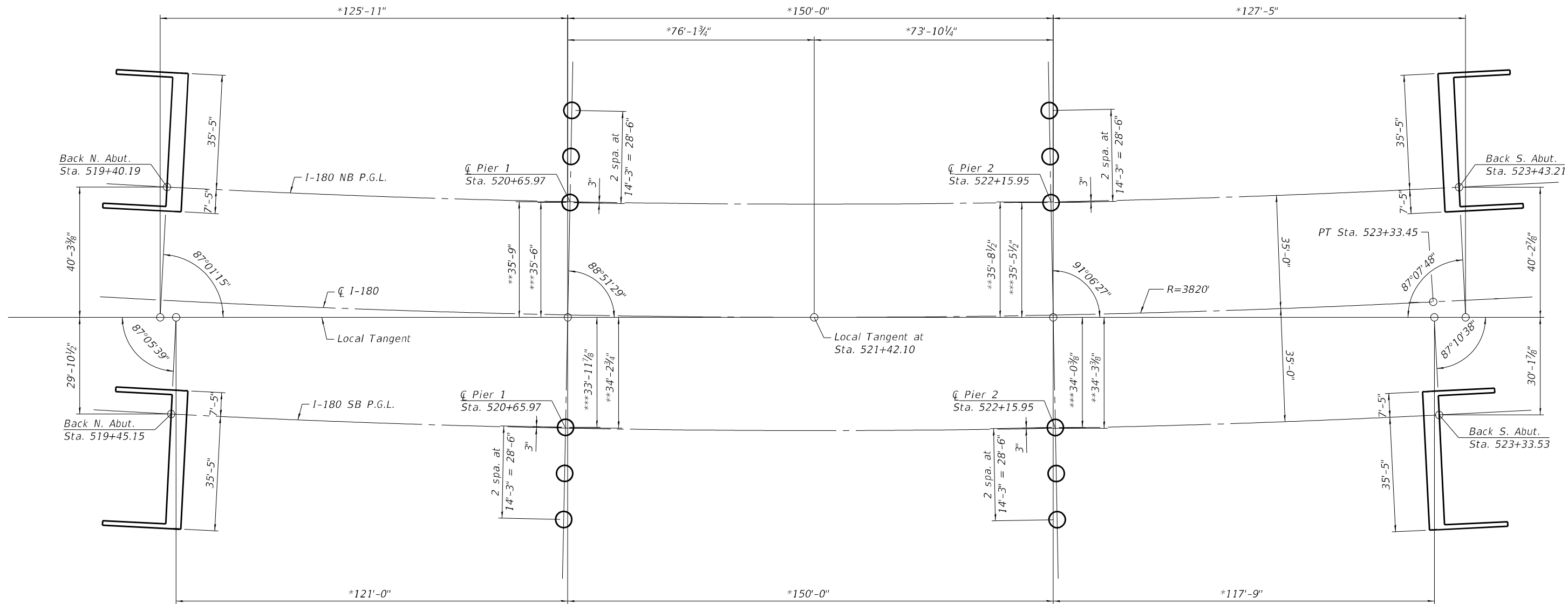
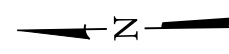
CURVE DATA

(Along ζ I-180)
 P.I. Sta. = 515+57.72
 $\Delta = 23^\circ 36' 35"$ (Lt.)
 $D = 1^\circ 30' 00"$
 $R = 3820.00'$
 $T = 798.38'$
 $L = 1,574.10'$
 $E = 82.54'$
 P.C. Sta. = 507+59.35
 P.T. Sta. = 523+33.45

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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
180	(06-2B-1)ES	BUREAU	327	143
CONTRACT NO. 66K66				
ILLINOIS FED. AID PROJECT				



FOOTING LAYOUT
 (All ϕ Brgs. are radial to ϕ I-180)
 * Measured along local tangent
 ** Measured from local tangent to PGL
 *** Measured from local tangent to drilled shaft

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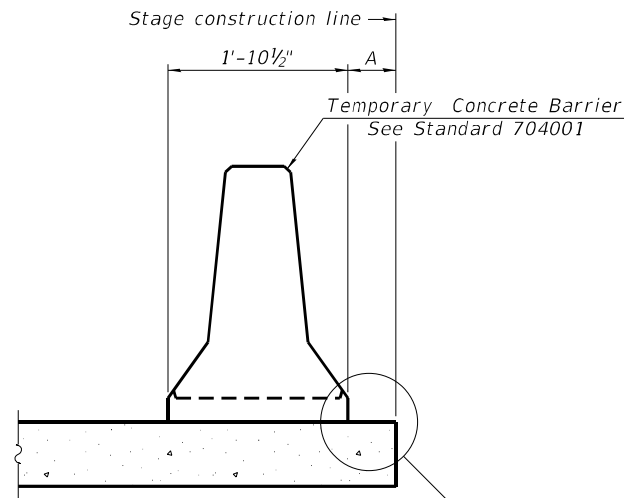
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	CHECKED - ACB	REVISED -

**STATE OF ILLINOIS
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**FOOTING LAYOUT
STRUCTURE NO. 006-0193 (SB) & 006-0194 (NB)**

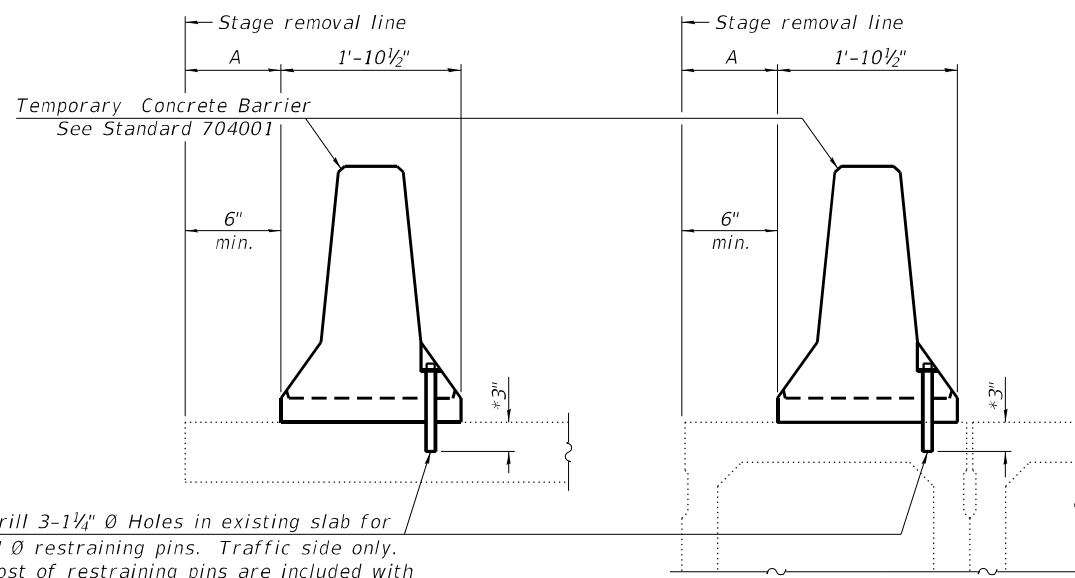
SHEET 4 OF 80 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
180	(06-2B-1)ES	BUREAU	327	144
CONTRACT NO. 66K66				
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".

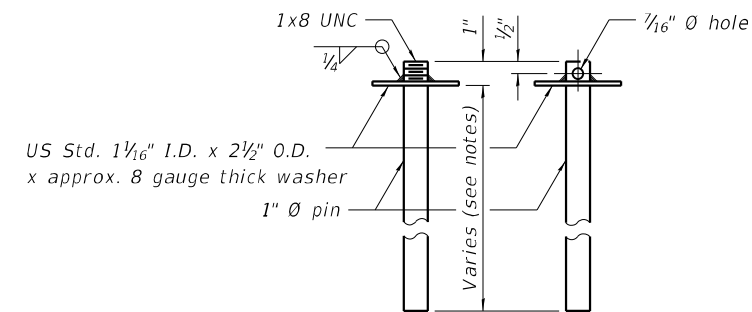
NEW SLAB OR NEW DECK BEAM



Drill 3-1 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

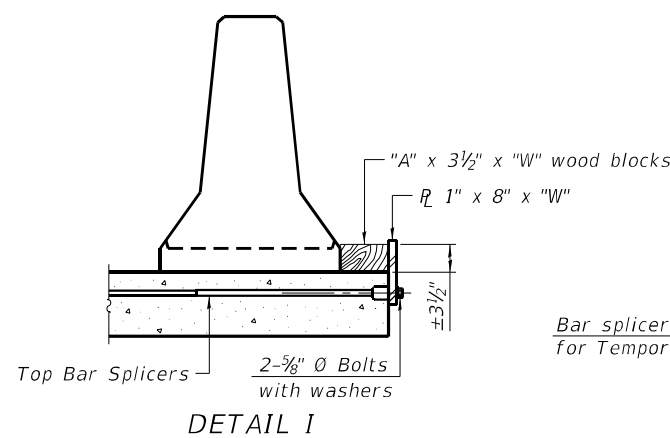
EXISTING DECK BEAM



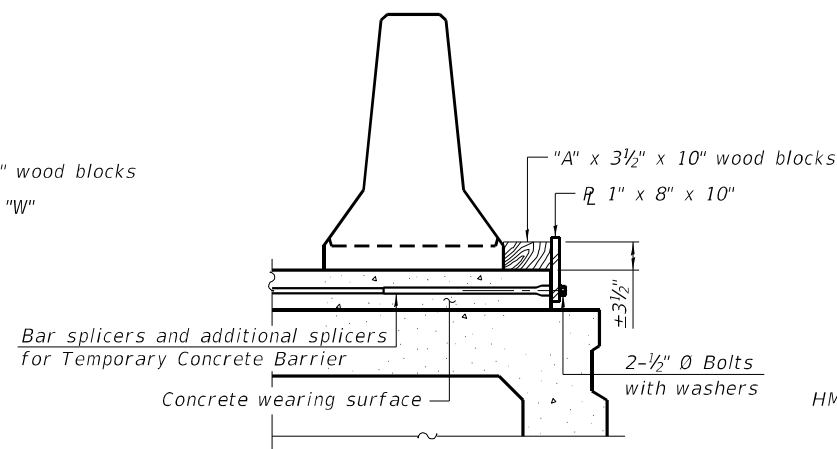
RESTRAINING PIN

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

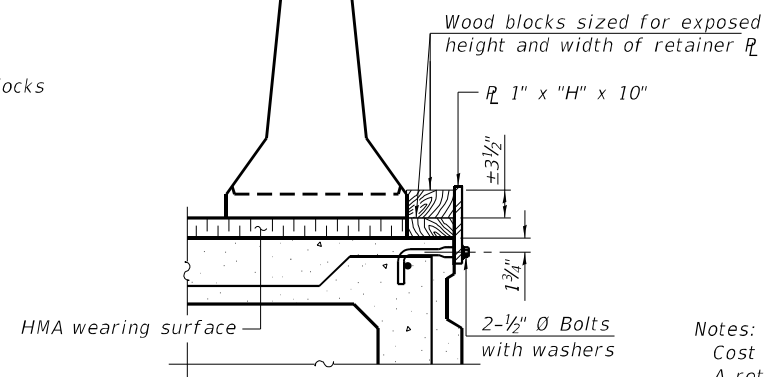
SECTIONS THRU SLAB OR DECK BEAM



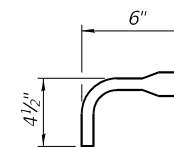
DETAIL I



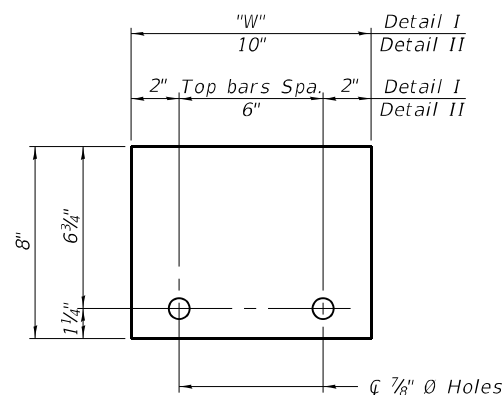
DETAIL II



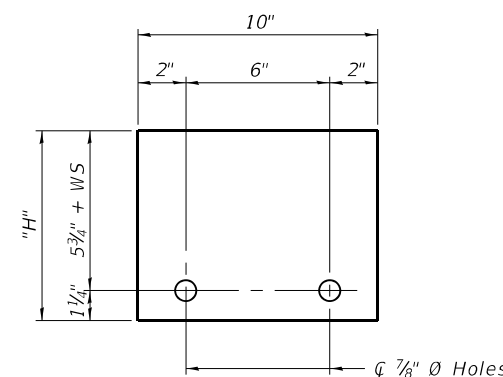
DETAIL III



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

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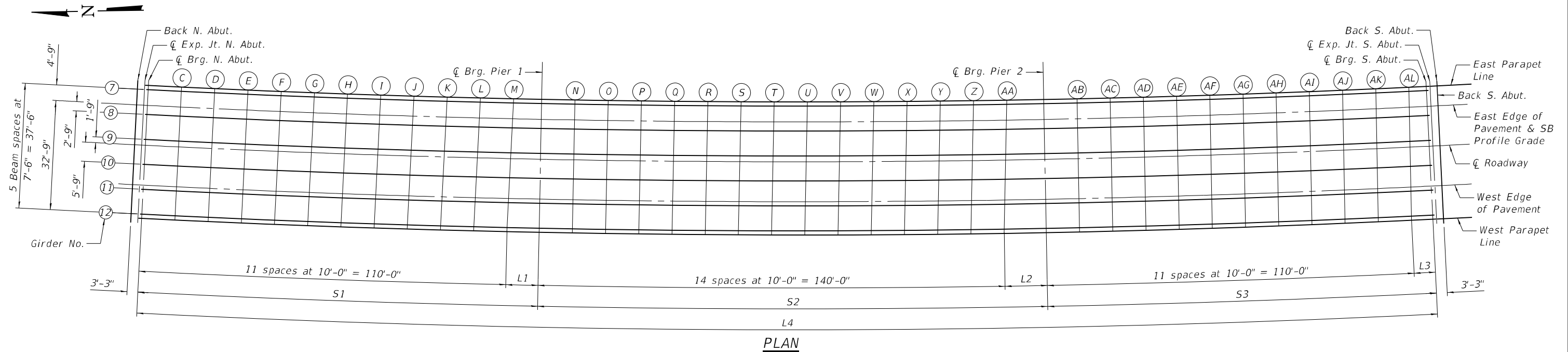
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY CONCRETE BARRIER
STRUCTURE NO. 006-0193 (SB) & 006-0194 (NB)

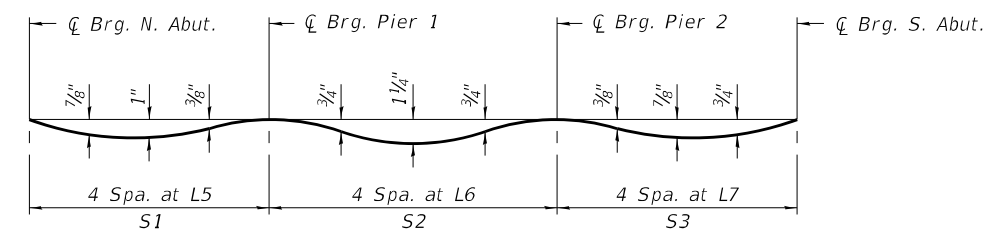
SHEET 5 OF 80 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
180	(06-2B-1)ES	BUREAU	327	145
CONTRACT NO. 66K66				
ILLINOIS FED. AID PROJECT				

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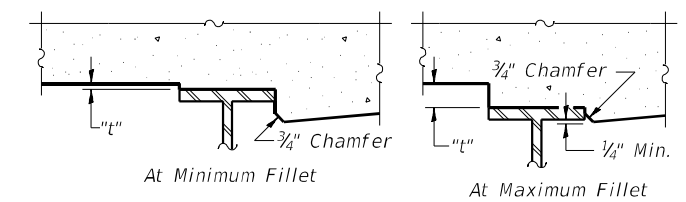
PLAN



DEAD LOAD DEFLECTION DIAGRAM

(Includes weight of concrete only.)

Note:
 The above deflections are not to be used in the field if the engineer is working from the grade elevations adjusted for dead load deflections and grinding as shown on sheets 7 thru 10 of 80.



To determine "t": After all structural steel has been erected, elevations of the top flanges of the beams shall be taken at intervals shown above. These elevations subtracted from the "Theoretical Grade Elevations Adjusted for Dead Load Deflection and Grinding" shown on sheets 7 thru 10 of 80, minus the initial slab thickness prior to grinding, equals the fillet heights "t" above top flange of beams.
 The slab is to be ground after curing to achieve smoothness, but the slab is not to be ground to elevations below the "Theoretical Grade Elevations" shown on sheets 7 thru 10 of 80. For grinding the deck, see Special Provisions.

FILLET HEIGHTS

TABLE OF DIMENSIONS

Location	L1	L2	L3	L4	L5	S1	L6	S2	L7	S3
Girder 7	8'-6 1/4"	11'-2"	5'-3 1/8"	384'-11 1/2"	29'-7 5/8"	118'-6 1/4"	37'-9 1/2"	151'-2"	28'-9 3/4"	115'-3 1/8"
Girder 8	8'-9 1/8"	11'-5 1/2"	5'-5 5/8"	385'-8 1/2"	29'-8 1/4"	118'-9 1/8"	37'-10 3/8"	151'-5 1/2"	28'-10 1/2"	115'-5 5/8"
Girder 9	8'-11 1/8"	11'-9 1/8"	5'-8 1/2"	386'-5 1/2"	29'-9"	118'-11 1/8"	37'-11 1/4"	151'-9 1/8"	28'-11 1/8"	115'-8 1/2"
Girder 10	9'-2 3/8"	12'-0 3/8"	5'-11 1/4"	387'-2 1/2"	29'-9 3/8"	119'-2 3/8"	38'-0 1/8"	152'-0 3/8"	28'-11 3/4"	115'-11 1/4"
Girder 11	9'-5 3/8"	12'-4 1/8"	6'-1 1/8"	387'-11 1/2"	29'-10 3/8"	119'-5 3/8"	38'-1"	152'-4 1/8"	29'-0 1/2"	116'-1 1/8"
Girder 12	9'-8 1/8"	12'-7 3/4"	6'-4 3/8"	388'-8 1/2"	29'-11"	119'-8 1/8"	38'-1 1/8"	152'-7 3/4"	29'-1 1/8"	116'-4 3/8"

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TOP OF SLAB ELEVATIONS
STRUCTURE NO. 006-0193 (SB)

SHEET 6 OF 80 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
180	(06-2B-1)ES	BUREAU	327	146
CONTRACT NO. 66K66				
ILLINOIS FED. AID PROJECT				

EAST PARAPET LINE

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection and Grinding
Back N. Abut.	519+45.15	-6.00	502.53	502.55
☉ Exp. Jt. N. Abut.	519+47.25	-6.00	502.59	502.61
☉ Brg. N. Abut.	519+48.38	-6.00	502.62	502.64
C	519+58.30	-6.00	502.90	502.95
D	519+68.23	-6.00	503.19	503.26
E	519+78.15	-6.00	503.47	503.56
F	519+88.08	-6.00	503.77	503.87
G	519+98.00	-6.00	504.07	504.17
H	520+07.93	-6.00	504.36	504.46
I	520+17.85	-6.00	504.66	504.74
J	520+27.78	-6.00	504.95	505.02
K	520+37.70	-6.00	505.25	505.30
L	520+47.63	-6.00	505.54	505.58
M	520+57.55	-6.00	505.84	505.86
☉ Brg. Pier 1	520+65.97	-6.00	506.09	506.11
N	520+75.89	-6.00	506.39	506.42
O	520+85.82	-6.00	506.68	506.73
P	520+95.74	-6.00	506.98	507.04
Q	521+05.67	-6.00	507.27	507.36
R	521+15.59	-6.00	507.57	507.67
S	521+25.52	-6.00	507.87	507.98
T	521+35.44	-6.00	508.16	508.29
U	521+45.37	-6.00	508.46	508.59
V	521+55.29	-6.00	508.75	508.88
W	521+65.22	-6.00	509.05	509.16
X	521+75.14	-6.00	509.34	509.44
Y	521+85.07	-6.00	509.64	509.71
Z	521+94.99	-6.00	509.94	509.99
AA	522+04.92	-6.00	510.23	510.27
☉ Brg. Pier 2	522+15.95	-6.00	510.56	510.58
AB	522+25.87	-6.00	510.86	510.88
AC	522+35.80	-6.00	511.15	511.19
AD	522+45.72	-6.00	511.45	511.50
AE	522+55.65	-6.00	511.74	511.81
AF	522+65.57	-6.00	512.04	512.12
AG	522+75.50	-6.00	512.34	512.42
AH	522+85.42	-6.00	512.63	512.72
AI	522+95.35	-6.00	512.93	513.02
AJ	523+05.27	-6.00	513.22	513.30
AK	523+15.20	-6.00	513.52	513.58
AL	523+25.12	-6.00	513.81	513.86
☉ Brg. S. Abut.	523+30.31	-6.00	513.97	513.99
☉ Exp. Jt. S. Abut.	523+31.43	-6.00	514.00	514.02
Back S. Abut.	523+33.53	-6.00	514.06	514.09

GIRDER 7

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection and Grinding
Back N. Abut.	519+45.15	-4.75	502.58	502.60
☉ Exp. Jt. N. Abut.	519+47.25	-4.75	502.64	502.66
☉ Brg. N. Abut.	519+48.38	-4.75	502.67	502.69
C	519+58.30	-4.75	502.95	503.00
D	519+68.22	-4.75	503.24	503.31
E	519+78.14	-4.75	503.53	503.62
F	519+88.07	-4.75	503.82	503.92
G	519+97.99	-4.75	504.12	504.22
H	520+07.91	-4.75	504.41	504.51
I	520+17.83	-4.75	504.71	504.80
J	520+27.75	-4.75	505.00	505.08
K	520+37.67	-4.75	505.30	505.35
L	520+47.59	-4.75	505.60	505.63
M	520+57.52	-4.75	505.89	505.92
☉ Brg. Pier 1	520+65.97	-4.75	506.14	506.16
N	520+75.89	-4.75	506.44	506.47
O	520+85.81	-4.75	506.74	506.78
P	520+95.73	-4.75	507.03	507.09
Q	521+05.66	-4.75	507.33	507.41
R	521+15.58	-4.75	507.62	507.73
S	521+25.50	-4.75	507.92	508.04
T	521+35.42	-4.75	508.21	508.34
U	521+45.34	-4.75	508.51	508.64
V	521+55.26	-4.75	508.80	508.93
W	521+65.18	-4.75	509.10	509.21
X	521+75.11	-4.75	509.40	509.49
Y	521+85.03	-4.75	509.69	509.76
Z	521+94.95	-4.75	509.99	510.04
AA	522+04.87	-4.75	510.28	510.32
☉ Brg. Pier 2	522+15.95	-4.75	510.61	510.63
AB	522+25.87	-4.75	510.91	510.93
AC	522+35.79	-4.75	511.20	511.24
AD	522+45.71	-4.75	511.50	511.55
AE	522+55.64	-4.75	511.80	511.86
AF	522+65.56	-4.75	512.09	512.17
AG	522+75.48	-4.75	512.39	512.48
AH	522+85.40	-4.75	512.68	512.78
AI	522+95.32	-4.75	512.98	513.07
AJ	523+05.24	-4.75	513.27	513.35
AK	523+15.16	-4.75	513.57	513.63
AL	523+25.09	-4.75	513.87	513.92
☉ Brg. S. Abut.	523+30.31	-4.75	514.02	514.04
☉ Exp. Jt. S. Abut.	523+31.43	-4.75	514.05	514.08
Back S. Abut.	523+33.53	-4.75	514.12	514.14

EAST EDGE OF PAVEMENT & SB PROFILE GRADE

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection and Grinding
Back N. Abut.	519+45.15	0.00	502.78	502.80
☉ Exp. Jt. N. Abut.	519+47.25	0.00	502.84	502.86
☉ Brg. N. Abut.	519+48.38	0.00	502.87	502.89
C	519+58.29	0.00	503.15	503.20
D	519+68.20	0.00	503.44	503.51
E	519+78.11	0.00	503.72	503.81
F	519+88.02	0.00	504.02	504.12
G	519+97.93	0.00	504.32	504.42
H	520+07.84	0.00	504.61	504.71
I	520+17.74	0.00	504.91	504.99
J	520+27.65	0.00	505.20	505.27
K	520+37.56	0.00	505.50	505.55
L	520+47.47	0.00	505.79	505.83
M	520+57.38	0.00	506.09	506.11
☉ Brg. Pier 1	520+65.97	0.00	506.34	506.36
N	520+75.88	0.00	506.64	506.67
O	520+85.79	0.00	506.93	506.98
P	520+95.70	0.00	507.23	507.29
Q	521+05.61	0.00	507.52	507.61
R	521+15.52	0.00	507.82	507.92
S	521+25.43	0.00	508.12	508.23
T	521+35.33	0.00	508.41	508.54
U	521+45.24	0.00	508.71	508.83
V	521+55.15	0.00	509.00	509.12
W	521+65.06	0.00	509.30	509.40
X	521+74.97	0.00	509.59	509.68
Y	521+84.88	0.00	509.89	509.96
Z	521+94.79	0.00	510.18	510.23
AA	522+04.70	0.00	510.48	510.51
☉ Brg. Pier 2	522+15.95	0.00	510.81	510.83
AB	522+25.86	0.00	511.11	511.13
AC	522+35.77	0.00	511.40	511.44
AD	522+45.68	0.00	511.70	511.75
AE	522+55.59	0.00	511.99	512.06
AF	522+65.50	0.00	512.29	512.37
AG	522+75.41	0.00	512.58	512.67
AH	522+85.31	0.00	512.88	512.97
AI	522+95.22	0.00	513.18	513.26
AJ	523+05.13	0.00	513.47	513.55
AK	523+15.04	0.00	513.77	513.82
AL	523+24.95	0.00	514.06	514.11
☉ Brg. S. Abut.	523+30.31	0.00	514.22	514.24
☉ Exp. Jt. S. Abut.	523+31.43	0.00	514.25	514.27
Back S. Abut.	523+33.53	0.00	514.32	514.34

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PLOT DATE = 2/12/2024	CHECKED - ACB	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

TOP OF SLAB ELEVATIONS
 STRUCTURE NO. 006-0193 (SB)

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
180	(06-2B-1)ES	BUREAU	327	147
CONTRACT NO. 66K66				
SHEET 7 OF 80 SHEETS		ILLINOIS FED. AID PROJECT		

GIRDER 8

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection and Grinding
Back N. Abut.	519+45.16	2.75	502.90	502.92
☉ Exp. Jt. N. Abut.	519+47.25	2.75	502.96	502.98
☉ Brg. N. Abut.	519+48.38	2.75	502.99	503.01
C	519+58.28	2.75	503.27	503.32
D	519+68.18	2.75	503.55	503.62
E	519+78.09	2.75	503.84	503.93
F	519+87.99	2.75	504.13	504.24
G	519+97.89	2.75	504.43	504.53
H	520+07.79	2.75	504.73	504.83
I	520+17.70	2.75	505.02	505.11
J	520+27.60	2.75	505.32	505.39
K	520+37.50	2.75	505.61	505.66
L	520+47.40	2.75	505.91	505.94
M	520+57.30	2.75	506.20	506.22
☉ Brg. Pier 1	520+65.97	2.75	506.46	506.48
N	520+75.87	2.75	506.75	506.79
O	520+85.77	2.75	507.05	507.09
P	520+95.68	2.75	507.34	507.41
Q	521+05.58	2.75	507.64	507.72
R	521+15.48	2.75	507.93	508.04
S	521+25.38	2.75	508.23	508.35
T	521+35.29	2.75	508.52	508.65
U	521+45.19	2.75	508.82	508.95
V	521+55.09	2.75	509.11	509.24
W	521+64.99	2.75	509.41	509.52
X	521+74.89	2.75	509.70	509.80
Y	521+84.80	2.75	510.00	510.07
Z	521+94.70	2.75	510.29	510.35
AA	522+04.60	2.75	510.59	510.63
☉ Brg. Pier 2	522+15.95	2.75	510.93	510.95
AB	522+25.85	2.75	511.22	511.25
AC	522+35.75	2.75	511.52	511.55
AD	522+45.66	2.75	511.81	511.86
AE	522+55.56	2.75	512.11	512.17
AF	522+65.46	2.75	512.40	512.48
AG	522+75.36	2.75	512.70	512.79
AH	522+85.27	2.75	512.99	513.09
AI	522+95.17	2.75	513.29	513.38
AJ	523+05.07	2.75	513.58	513.66
AK	523+14.97	2.75	513.88	513.94
AL	523+24.87	2.75	514.17	514.22
☉ Brg. S. Abut.	523+30.31	2.75	514.34	514.36
☉ Exp. Jt. S. Abut.	523+31.43	2.75	514.37	514.39
Back S. Abut.	523+33.53	2.75	514.43	514.45

GIRDER 9

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection and Grinding
Back N. Abut.	519+45.16	10.25	503.21	503.23
☉ Exp. Jt. N. Abut.	519+47.25	10.25	503.27	503.29
☉ Brg. N. Abut.	519+48.38	10.25	503.30	503.32
C	519+58.26	10.25	503.58	503.63
D	519+68.15	10.25	503.87	503.94
E	519+78.03	10.25	504.15	504.24
F	519+87.91	10.25	504.45	504.55
G	519+97.79	10.25	504.74	504.85
H	520+07.68	10.25	505.04	505.14
I	520+17.56	10.25	505.33	505.42
J	520+27.44	10.25	505.63	505.70
K	520+37.33	10.25	505.92	505.97
L	520+47.21	10.25	506.21	506.25
M	520+57.09	10.25	506.51	506.53
☉ Brg. Pier 1	520+65.97	10.25	506.77	506.79
N	520+75.85	10.25	507.07	507.10
O	520+85.74	10.25	507.36	507.41
P	520+95.62	10.25	507.66	507.72
Q	521+05.50	10.25	507.95	508.04
R	521+15.38	10.25	508.25	508.35
S	521+25.27	10.25	508.54	508.66
T	521+35.15	10.25	508.84	508.96
U	521+45.03	10.25	509.13	509.26
V	521+54.92	10.25	509.42	509.55
W	521+64.80	10.25	509.72	509.83
X	521+74.68	10.25	510.01	510.10
Y	521+84.57	10.25	510.31	510.38
Z	521+94.45	10.25	510.60	510.65
AA	522+04.33	10.25	510.90	510.93
☉ Brg. Pier 2	522+15.95	10.25	511.24	511.26
AB	522+25.83	10.25	511.54	511.56
AC	522+35.72	10.25	511.83	511.87
AD	522+45.60	10.25	512.13	512.18
AE	522+55.48	10.25	512.42	512.49
AF	522+65.36	10.25	512.72	512.80
AG	522+75.25	10.25	513.01	513.10
AH	522+85.13	10.25	513.30	513.40
AI	522+95.01	10.25	513.60	513.69
AJ	523+04.90	10.25	513.89	513.97
AK	523+14.78	10.25	514.19	514.25
AL	523+24.66	10.25	514.48	514.53
☉ Brg. S. Abut.	523+30.31	10.25	514.65	514.67
☉ Exp. Jt. S. Abut.	523+31.43	10.25	514.68	514.71
Back S. Abut.	523+33.52	10.25	514.75	514.77

CENTERLINE OF ROADWAY

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection and Grinding
Back N. Abut.	519+45.16	12.00	503.29	503.31
☉ Exp. Jt. N. Abut.	519+47.25	12.00	503.35	503.37
☉ Brg. N. Abut.	519+48.38	12.00	503.38	503.40
C	519+58.26	12.00	503.66	503.70
D	519+68.14	12.00	503.94	504.01
E	519+78.02	12.00	504.23	504.32
F	519+87.89	12.00	504.52	504.62
G	519+97.77	12.00	504.82	504.92
H	520+07.65	12.00	505.11	505.21
I	520+17.53	12.00	505.40	505.49
J	520+27.41	12.00	505.70	505.77
K	520+37.29	12.00	505.99	506.05
L	520+47.16	12.00	506.29	506.32
M	520+57.04	12.00	506.58	506.60
☉ Brg. Pier 1	520+65.97	12.00	506.85	506.87
N	520+75.85	12.00	507.14	507.18
O	520+85.73	12.00	507.44	507.48
P	520+95.61	12.00	507.73	507.79
Q	521+05.48	12.00	508.02	508.11
R	521+15.36	12.00	508.32	508.42
S	521+25.24	12.00	508.61	508.73
T	521+35.12	12.00	508.91	509.03
U	521+45.00	12.00	509.20	509.33
V	521+54.88	12.00	509.50	509.62
W	521+64.75	12.00	509.79	509.90
X	521+74.63	12.00	510.09	510.18
Y	521+84.51	12.00	510.38	510.45
Z	521+94.39	12.00	510.67	510.72
AA	522+04.27	12.00	510.97	511.01
☉ Brg. Pier 2	522+15.95	12.00	511.32	511.34
AB	522+25.83	12.00	511.61	511.64
AC	522+35.71	12.00	511.91	511.94
AD	522+45.59	12.00	512.20	512.25
AE	522+55.46	12.00	512.49	512.56
AF	522+65.34	12.00	512.79	512.87
AG	522+75.22	12.00	513.08	513.17
AH	522+85.10	12.00	513.38	513.47
AI	522+94.98	12.00	513.67	513.76
AJ	523+04.86	12.00	513.97	514.04
AK	523+14.73	12.00	514.26	514.32
AL	523+24.61	12.00	514.55	514.60
☉ Brg. S. Abut.	523+30.31	12.00	514.72	514.75
☉ Exp. Jt. S. Abut.	523+31.43	12.00	514.76	514.78
Back S. Abut.	523+33.52	12.00	514.82	514.84

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TOP OF SLAB ELEVATIONS
STRUCTURE NO. 006-0193 (SB)

SHEET 8 OF 80 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
180	(06-2B-1)ES	BUREAU	327	148
CONTRACT NO. 66K66				
ILLINOIS		FED. AID PROJECT		

GIRDER 10

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection and Grinding
Back N. Abut.	519+45.17	17.75	503.53	503.55
☒ Exp. Jt. N. Abut.	519+47.26	17.75	503.59	503.61
☒ Brg. N. Abut.	519+48.38	17.75	503.62	503.64
C	519+58.24	17.75	503.90	503.94
D	519+68.11	17.75	504.18	504.25
E	519+77.97	17.75	504.47	504.56
F	519+87.84	17.75	504.76	504.86
G	519+97.70	17.75	505.05	505.16
H	520+07.56	17.75	505.35	505.45
I	520+17.43	17.75	505.64	505.73
J	520+27.29	17.75	505.94	506.01
K	520+37.15	17.75	506.23	506.28
L	520+47.02	17.75	506.52	506.56
M	520+56.88	17.75	506.82	506.84
☒ Brg. Pier 1	520+65.97	17.75	507.09	507.11
N	520+75.83	17.75	507.38	507.42
O	520+85.70	17.75	507.68	507.72
P	520+95.56	17.75	507.97	508.03
Q	521+05.43	17.75	508.26	508.35
R	521+15.29	17.75	508.56	508.66
S	521+25.15	17.75	508.85	508.97
T	521+35.02	17.75	509.15	509.27
U	521+44.88	17.75	509.44	509.57
V	521+54.74	17.75	509.73	509.86
W	521+64.61	17.75	510.03	510.14
X	521+74.47	17.75	510.32	510.41
Y	521+84.34	17.75	510.62	510.69
Z	521+94.20	17.75	510.91	510.96
AA	522+04.06	17.75	511.20	511.24
☒ Brg. Pier 2	522+15.95	17.75	511.56	511.58
AB	522+25.81	17.75	511.85	511.88
AC	522+35.68	17.75	512.15	512.18
AD	522+45.54	17.75	512.44	512.49
AE	522+55.41	17.75	512.73	512.80
AF	522+65.27	17.75	513.03	513.11
AG	522+75.13	17.75	513.32	513.41
AH	522+85.00	17.75	513.62	513.71
AI	522+94.86	17.75	513.91	514.00
AJ	523+04.72	17.75	514.20	514.28
AK	523+14.59	17.75	514.50	514.56
AL	523+24.45	17.75	514.79	514.84
☒ Brg. S. Abut.	523+30.31	17.75	514.97	514.99
☒ Exp. Jt. S. Abut.	523+31.43	17.75	515.00	515.02
Back S. Abut.	523+33.51	17.75	515.06	515.08

WEST EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection and Grinding
Back N. Abut.	519+45.17	24.00	503.79	503.81
☒ Exp. Jt. N. Abut.	519+47.26	24.00	503.85	503.87
☒ Brg. N. Abut.	519+48.38	24.00	503.88	503.90
C	519+58.23	24.00	504.16	504.21
D	519+68.08	24.00	504.44	504.51
E	519+77.92	24.00	504.73	504.82
F	519+87.77	24.00	505.02	505.12
G	519+97.62	24.00	505.31	505.42
H	520+07.47	24.00	505.61	505.71
I	520+17.32	24.00	505.90	505.99
J	520+27.16	24.00	506.19	506.27
K	520+37.01	24.00	506.49	506.54
L	520+46.86	24.00	506.78	506.82
M	520+56.71	24.00	507.08	507.10
☒ Brg. Pier 1	520+65.97	24.00	507.35	507.37
N	520+75.82	24.00	507.64	507.68
O	520+85.67	24.00	507.94	507.98
P	520+95.51	24.00	508.23	508.30
Q	521+05.36	24.00	508.53	508.61
R	521+15.21	24.00	508.82	508.92
S	521+25.06	24.00	509.11	509.23
T	521+34.91	24.00	509.41	509.53
U	521+44.75	24.00	509.70	509.83
V	521+54.60	24.00	509.99	510.11
W	521+64.45	24.00	510.29	510.39
X	521+74.30	24.00	510.58	510.67
Y	521+84.14	24.00	510.87	510.94
Z	521+93.99	24.00	511.17	511.22
AA	522+03.84	24.00	511.46	511.50
☒ Brg. Pier 2	522+15.95	24.00	511.82	511.84
AB	522+25.80	24.00	512.11	512.14
AC	522+35.65	24.00	512.41	512.44
AD	522+45.49	24.00	512.70	512.75
AE	522+55.34	24.00	512.99	513.06
AF	522+65.19	24.00	513.29	513.37
AG	522+75.04	24.00	513.58	513.67
AH	522+84.89	24.00	513.87	513.97
AI	522+94.73	24.00	514.17	514.26
AJ	523+04.58	24.00	514.46	514.54
AK	523+14.43	24.00	514.76	514.81
AL	523+24.28	24.00	515.05	515.10
☒ Brg. S. Abut.	523+30.31	24.00	515.23	515.25
☒ Exp. Jt. S. Abut.	523+31.42	24.00	515.26	515.28
Back S. Abut.	523+33.51	24.00	515.32	515.34

GIRDER 11

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection and Grinding
Back N. Abut.	519+45.18	25.25	503.84	503.87
☒ Exp. Jt. N. Abut.	519+47.26	25.25	503.90	503.92
☒ Brg. N. Abut.	519+48.38	25.25	503.93	503.95
C	519+58.22	25.25	504.21	504.26
D	519+68.07	25.25	504.49	504.57
E	519+77.91	25.25	504.78	504.87
F	519+87.76	25.25	505.07	505.17
G	519+97.60	25.25	505.37	505.47
H	520+07.45	25.25	505.66	505.76
I	520+17.29	25.25	505.95	506.04
J	520+27.14	25.25	506.25	506.32
K	520+36.98	25.25	506.54	506.59
L	520+46.83	25.25	506.83	506.87
M	520+56.67	25.25	507.13	507.15
☒ Brg. Pier 1	520+65.97	25.25	507.40	507.42
N	520+75.81	25.25	507.70	507.73
O	520+85.66	25.25	507.99	508.04
P	520+95.50	25.25	508.28	508.35
Q	521+05.35	25.25	508.58	508.66
R	521+15.19	25.25	508.87	508.97
S	521+25.04	25.25	509.16	509.28
T	521+34.88	25.25	509.46	509.58
U	521+44.73	25.25	509.75	509.88
V	521+54.57	25.25	510.04	510.17
W	521+64.42	25.25	510.34	510.45
X	521+74.26	25.25	510.63	510.72
Y	521+84.11	25.25	510.92	510.99
Z	521+93.95	25.25	511.22	511.27
AA	522+03.80	25.25	511.51	511.55
☒ Brg. Pier 2	522+15.95	25.25	511.87	511.89
AB	522+25.79	25.25	512.17	512.19
AC	522+35.64	25.25	512.46	512.50
AD	522+45.48	25.25	512.75	512.80
AE	522+55.33	25.25	513.05	513.11
AF	522+65.17	25.25	513.34	513.42
AG	522+75.02	25.25	513.63	513.72
AH	522+84.86	25.25	513.93	514.02
AI	522+94.71	25.25	514.22	514.31
AJ	523+04.55	25.25	514.51	514.59
AK	523+14.40	25.25	514.81	514.87
AL	523+24.24	25.25	515.10	515.15
☒ Brg. S. Abut.	523+30.31	25.25	515.28	515.30
☒ Exp. Jt. S. Abut.	523+31.42	25.25	515.31	515.34
Back S. Abut.	523+33.51	25.25	515.38	515.40

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TOP OF SLAB ELEVATIONS
STRUCTURE NO. 006-0193 (SB)

SHEET 9 OF 80 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
180	(06-2B-1)ES	BUREAU	327	149
CONTRACT NO. 66K66				
		ILLINOIS	FED. AID PROJECT	

GIRDER 12

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection and Grinding
Back N. Abut.	519+45.18	32.75	504.16	504.18
☒ Exp. Jt. N. Abut.	519+47.26	32.75	504.22	504.24
☒ Brg. N. Abut.	519+48.38	32.75	504.25	504.27
C	519+58.21	32.75	504.53	504.57
D	519+68.03	32.75	504.81	504.88
E	519+77.86	32.75	505.09	505.18
F	519+87.68	32.75	505.39	505.49
G	519+97.51	32.75	505.68	505.78
H	520+07.33	32.75	505.97	506.07
I	520+17.16	32.75	506.26	506.35
J	520+26.99	32.75	506.56	506.63
K	520+36.81	32.75	506.85	506.90
L	520+46.64	32.75	507.14	507.18
M	520+56.46	32.75	507.44	507.46
☒ Brg. Pier 1	520+65.97	32.75	507.72	507.74
N	520+75.80	32.75	508.01	508.05
O	520+85.62	32.75	508.30	508.35
P	520+95.45	32.75	508.60	508.66
Q	521+05.27	32.75	508.89	508.97
R	521+15.10	32.75	509.18	509.29
S	521+24.92	32.75	509.48	509.59
T	521+34.75	32.75	509.77	509.89
U	521+44.58	32.75	510.06	510.19
V	521+54.40	32.75	510.35	510.48
W	521+64.23	32.75	510.65	510.76
X	521+74.05	32.75	510.94	511.03
Y	521+83.88	32.75	511.23	511.30
Z	521+93.70	32.75	511.53	511.58
AA	522+03.53	32.75	511.82	511.86
☒ Brg. Pier 2	522+15.95	32.75	512.19	512.21
AB	522+25.78	32.75	512.48	512.51
AC	522+35.60	32.75	512.77	512.81
AD	522+45.43	32.75	513.07	513.12
AE	522+55.25	32.75	513.36	513.42
AF	522+65.08	32.75	513.65	513.73
AG	522+74.90	32.75	513.95	514.03
AH	522+84.73	32.75	514.24	514.33
AI	522+94.56	32.75	514.53	514.62
AJ	523+04.38	32.75	514.82	514.90
AK	523+14.21	32.75	515.12	515.17
AL	523+24.03	32.75	515.41	515.46
☒ Brg. S. Abut.	523+30.31	32.75	515.60	515.62
☒ Exp. Jt. S. Abut.	523+31.42	32.75	515.63	515.65
Back S. Abut.	523+33.50	32.75	515.69	515.71

WEST PARAPET LINE

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection and Grinding
Back N. Abut.	519+45.18	34.00	504.21	504.23
☒ Exp. Jt. N. Abut.	519+47.26	34.00	504.27	504.29
☒ Brg. N. Abut.	519+48.38	34.00	504.30	504.32
C	519+58.20	34.00	504.58	504.63
D	519+68.03	34.00	504.86	504.93
E	519+77.85	34.00	505.15	505.24
F	519+87.67	34.00	505.44	505.54
G	519+97.49	34.00	505.73	505.83
H	520+07.32	34.00	506.02	506.12
I	520+17.14	34.00	506.32	506.40
J	520+26.96	34.00	506.61	506.68
K	520+36.78	34.00	506.90	506.96
L	520+46.61	34.00	507.19	507.23
M	520+56.43	34.00	507.49	507.51
☒ Brg. Pier 1	520+65.97	34.00	507.77	507.79
N	520+75.79	34.00	508.06	508.10
O	520+85.62	34.00	508.36	508.40
P	520+95.44	34.00	508.65	508.71
Q	521+05.26	34.00	508.94	509.03
R	521+15.08	34.00	509.23	509.34
S	521+24.91	34.00	509.53	509.65
T	521+34.73	34.00	509.82	509.95
U	521+44.55	34.00	510.11	510.24
V	521+54.37	34.00	510.41	510.53
W	521+64.20	34.00	510.70	510.81
X	521+74.02	34.00	510.99	511.08
Y	521+83.84	34.00	511.28	511.35
Z	521+93.66	34.00	511.58	511.63
AA	522+03.49	34.00	511.87	511.91
☒ Brg. Pier 2	522+15.95	34.00	512.24	512.26
AB	522+25.77	34.00	512.53	512.56
AC	522+35.60	34.00	512.83	512.86
AD	522+45.42	34.00	513.12	513.17
AE	522+55.24	34.00	513.41	513.48
AF	522+65.06	34.00	513.70	513.78
AG	522+74.89	34.00	514.00	514.09
AH	522+84.71	34.00	514.29	514.38
AI	522+94.53	34.00	514.58	514.67
AJ	523+04.35	34.00	514.88	514.95
AK	523+14.18	34.00	515.17	515.23
AL	523+24.00	34.00	515.46	515.51
☒ Brg. S. Abut.	523+30.31	34.00	515.65	515.67
☒ Exp. Jt. S. Abut.	523+31.42	34.00	515.68	515.70
Back S. Abut.	523+33.50	34.00	515.74	515.76

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PLOT SCALE =		DRAWN -	CMC	REVISED -	
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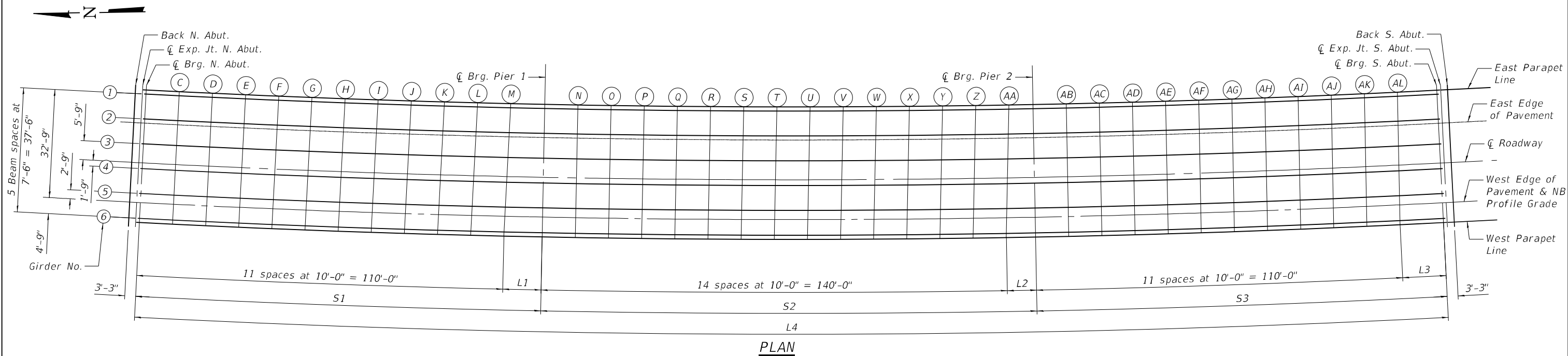
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TOP OF SLAB ELEVATIONS
STRUCTURE NO. 006-0193 (SB)

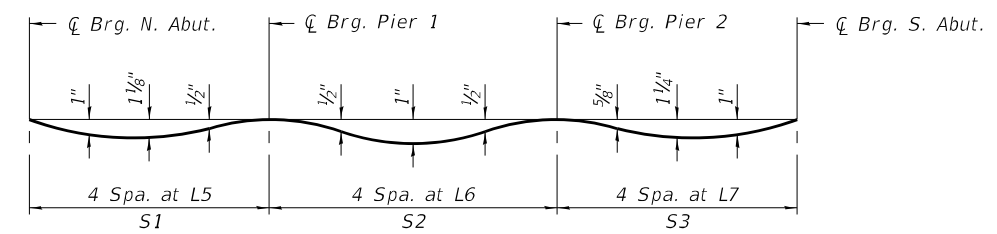
SHEET 10 OF 80 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
180	(06-2B-1)ES	BUREAU	327	150
CONTRACT NO. 66K66				
ILLINOIS FED. AID PROJECT				

MODEL: Default
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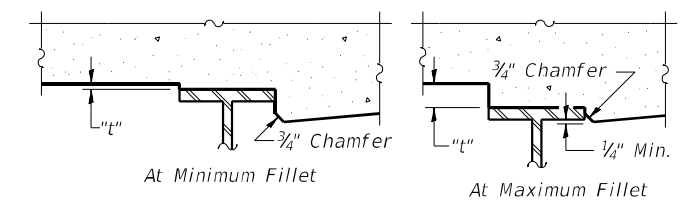
PLAN



DEAD LOAD DEFLECTION DIAGRAM

(Includes weight of concrete only.)

Note:
 The above deflections are not to be used in the field if the engineer is working from the grade elevations adjusted for dead load deflections and grinding as shown on sheets 12 thru 15 of 80.



To determine "t": After all structural steel has been erected, elevations of the top flanges of the beams shall be taken at intervals shown above. These elevations subtracted from the "Theoretical Grade Elevations Adjusted for Dead Load Deflection and Grinding" shown on sheets 12 thru 15 of 80, minus the initial slab thickness prior to grinding, equals the fillet heights "t" above top flange of beams.
 The slab is to be ground after curing to achieve smoothness, but the slab is not to be ground to elevations below the "Theoretical Grade Elevations" shown on sheets 12 thru 15 of 80. For grinding the deck, see Special Provisions.

FILLET HEIGHTS

TABLE OF DIMENSIONS

Location	L1	L2	L3	L4	L5	S1	L6	S2	L7	S3
Girder 1	10'-3 7/8"	7'-3 7/8"	11'-11 1/8"	389'-6 7/8"	30'-1"	120'-3 7/8"	36'-10"	147'-3 7/8"	30'-5 3/4"	121'-11 1/8"
Girder 2	10'-6 3/4"	7'-7 3/8"	12'-1 1/8"	390'-4"	30'-1 3/4"	120'-6 3/4"	36'-10 7/8"	147'-7 3/8"	30'-6 1/2"	122'-1 7/8"
Girder 3	10'-9 5/8"	7'-10 7/8"	12'-4 5/8"	391'-1 1/4"	30'-2 3/8"	120'-9 5/8"	36'-11 3/4"	147'-10 7/8"	30'-7 1/8"	122'-4 5/8"
Girder 4	11'-0 1/2"	8'-2 1/2"	12'-7 3/8"	391'-10 3/8"	30'-3 1/8"	121'-0 1/2"	37'-0 3/8"	148'-2 1/2"	30'-7 1/8"	122'-7 3/8"
Girder 5	11'-3 1/2"	8'-6"	12'-10 1/8"	392'-7 3/8"	30'-3 3/8"	121'-3 1/2"	37'-1 1/2"	148'-6"	30'-8 1/2"	122'-10 1/8"
Girder 6	11'-6 3/8"	8'-9 1/2"	13'-0 1/8"	393'-4 3/4"	30'-4 3/8"	121'-6 3/8"	37'-2 3/8"	148'-9 1/2"	30'-9 1/4"	123'-0 1/8"

E-S1 1-14-2019

EFK Moen
 Civil Engineering Design

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TOP OF SLAB ELEVATIONS
STRUCTURE NO. 006-0194 (NB)

SHEET 11 OF 80 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
180	(06-2B-1)ES	BUREAU	327	151
CONTRACT NO. 66K66				
ILLINOIS FED. AID PROJECT				

EAST PARAPET LINE

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection and Grinding
Back N. Abut.	519+40.16	-34.00	501.98	502.00
☉ Exp. Jt. N. Abut.	519+42.32	-34.00	502.04	502.06
☉ Brg. N. Abut.	519+43.47	-34.00	502.07	502.09
C	519+53.65	-34.00	502.35	502.41
D	519+63.84	-34.00	502.64	502.72
E	519+74.02	-34.00	502.94	503.04
F	519+84.21	-34.00	503.24	503.35
G	519+94.39	-34.00	503.54	503.66
H	520+04.57	-34.00	503.84	503.96
I	520+14.76	-34.00	504.15	504.25
J	520+24.94	-34.00	504.45	504.54
K	520+35.13	-34.00	504.76	504.83
L	520+45.31	-34.00	505.06	505.11
M	520+55.49	-34.00	505.36	505.39
☉ Brg. Pier 1	520+65.97	-34.00	505.67	505.69
N	520+76.15	-34.00	505.97	506.00
O	520+86.34	-34.00	506.26	506.30
P	520+96.52	-34.00	506.56	506.61
Q	521+06.71	-34.00	506.86	506.92
R	521+16.89	-34.00	507.15	507.23
S	521+27.07	-34.00	507.44	507.54
T	521+37.26	-34.00	507.73	507.83
U	521+47.44	-34.00	508.02	508.12
V	521+57.63	-34.00	508.31	508.41
W	521+67.81	-34.00	508.60	508.68
X	521+77.99	-34.00	508.89	508.95
Y	521+88.18	-34.00	509.18	509.22
Z	521+98.36	-34.00	509.46	509.49
AA	522+08.55	-34.00	509.74	509.77
☉ Brg. Pier 2	522+15.95	-34.00	509.95	509.97
AB	522+26.13	-34.00	510.23	510.26
AC	522+36.32	-34.00	510.51	510.56
AD	522+46.50	-34.00	510.79	510.86
AE	522+56.69	-34.00	511.07	511.16
AF	522+66.87	-34.00	511.35	511.45
AG	522+77.05	-34.00	511.62	511.74
AH	522+87.24	-34.00	511.90	512.03
AI	522+97.42	-34.00	512.17	512.29
AJ	523+07.61	-34.00	512.45	512.55
AK	523+17.79	-34.00	512.72	512.81
AL	523+27.97	-34.00	512.99	513.05
☉ Brg. S. Abut.	523+39.96	-34.00	513.30	513.33
☉ Exp. Jt. S. Abut.	523+41.09	-34.00	513.33	513.35
Back S. Abut.	523+43.21	-34.00	513.39	513.41

GIRDER 1

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection and Grinding
Back N. Abut.	519+40.16	-32.75	502.03	502.05
☉ Exp. Jt. N. Abut.	519+42.32	-32.75	502.09	502.11
☉ Brg. N. Abut.	519+43.47	-32.75	502.12	502.14
C	519+53.65	-32.75	502.41	502.46
D	519+63.83	-32.75	502.70	502.77
E	519+74.01	-32.75	502.99	503.09
F	519+84.19	-32.75	503.29	503.40
G	519+94.37	-32.75	503.59	503.71
H	520+04.55	-32.75	503.90	504.01
I	520+14.73	-32.75	504.20	504.30
J	520+24.91	-32.75	504.50	504.59
K	520+35.10	-32.75	504.81	504.88
L	520+45.28	-32.75	505.11	505.16
M	520+55.46	-32.75	505.41	505.44
☉ Brg. Pier 1	520+65.97	-32.75	505.72	505.74
N	520+76.15	-32.75	506.02	506.05
O	520+86.33	-32.75	506.32	506.35
P	520+96.51	-32.75	506.61	506.66
Q	521+06.69	-32.75	506.91	506.97
R	521+16.87	-32.75	507.20	507.28
S	521+27.05	-32.75	507.49	507.59
T	521+37.23	-32.75	507.79	507.88
U	521+47.41	-32.75	508.08	508.17
V	521+57.60	-32.75	508.37	508.46
W	521+67.78	-32.75	508.65	508.73
X	521+77.96	-32.75	508.94	509.00
Y	521+88.14	-32.75	509.23	509.27
Z	521+98.32	-32.75	509.51	509.54
AA	522+08.50	-32.75	509.79	509.82
☉ Brg. Pier 2	522+15.95	-32.75	510.00	510.02
AB	522+26.13	-32.75	510.28	510.32
AC	522+36.31	-32.75	510.56	510.61
AD	522+46.49	-32.75	510.84	510.91
AE	522+56.67	-32.75	511.12	511.21
AF	522+66.85	-32.75	511.40	511.51
AG	522+77.03	-32.75	511.68	511.80
AH	522+87.21	-32.75	511.95	512.08
AI	522+97.39	-32.75	512.22	512.35
AJ	523+07.58	-32.75	512.50	512.61
AK	523+17.76	-32.75	512.77	512.86
AL	523+27.94	-32.75	513.04	513.10
☉ Brg. S. Abut.	523+39.96	-32.75	513.36	513.38
☉ Exp. Jt. S. Abut.	523+41.09	-32.75	513.39	513.41
Back S. Abut.	523+43.21	-32.75	513.44	513.46

GIRDER 2

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection and Grinding
Back N. Abut.	519+40.17	-25.25	502.35	502.37
☉ Exp. Jt. N. Abut.	519+42.32	-25.25	502.40	502.43
☉ Brg. N. Abut.	519+43.47	-25.25	502.44	502.46
C	519+53.63	-25.25	502.72	502.77
D	519+63.79	-25.25	503.01	503.09
E	519+73.95	-25.25	503.30	503.40
F	519+84.11	-25.25	503.60	503.72
G	519+94.27	-25.25	503.90	504.02
H	520+04.43	-25.25	504.21	504.32
I	520+14.59	-25.25	504.51	504.61
J	520+24.75	-25.25	504.81	504.90
K	520+34.91	-25.25	505.12	505.19
L	520+45.07	-25.25	505.42	505.47
M	520+55.23	-25.25	505.72	505.75
☉ Brg. Pier 1	520+65.97	-25.25	506.04	506.06
N	520+76.13	-25.25	506.33	506.36
O	520+86.29	-25.25	506.63	506.67
P	520+96.45	-25.25	506.93	506.98
Q	521+06.61	-25.25	507.22	507.29
R	521+16.77	-25.25	507.51	507.60
S	521+26.93	-25.25	507.81	507.90
T	521+37.09	-25.25	508.10	508.20
U	521+47.25	-25.25	508.39	508.48
V	521+57.41	-25.25	508.68	508.77
W	521+67.57	-25.25	508.96	509.04
X	521+77.73	-25.25	509.25	509.31
Y	521+87.89	-25.25	509.53	509.58
Z	521+98.05	-25.25	509.82	509.85
AA	522+08.21	-25.25	510.10	510.13
☉ Brg. Pier 2	522+15.95	-25.25	510.32	510.34
AB	522+26.11	-25.25	510.60	510.63
AC	522+36.27	-25.25	510.88	510.92
AD	522+46.43	-25.25	511.16	511.22
AE	522+56.59	-25.25	511.43	511.52
AF	522+66.75	-25.25	511.71	511.82
AG	522+76.91	-25.25	511.99	512.11
AH	522+87.07	-25.25	512.26	512.39
AI	522+97.23	-25.25	512.53	512.66
AJ	523+07.39	-25.25	512.81	512.92
AK	523+17.55	-25.25	513.08	513.17
AL	523+27.71	-25.25	513.35	513.41
☉ Brg. S. Abut.	523+39.96	-25.25	513.67	513.69
☉ Exp. Jt. S. Abut.	523+41.09	-25.25	513.70	513.72
Back S. Abut.	523+43.21	-25.25	513.76	513.78

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PLOT DATE = 2/12/2024	CHECKED - ACB	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TOP OF SLAB ELEVATIONS
STRUCTURE NO. 006-0194 (NB)**

SHEET 12 OF 80 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
180	(06-2B-1)ES	BUREAU	327	152
CONTRACT NO. 66K66				
		ILLINOIS	FED. AID PROJECT	

EAST EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection and Grinding
Back N. Abut.	519+40.17	-24.00	502.40	502.42
☉ Exp. Jt. N. Abut.	519+42.32	-24.00	502.46	502.48
☉ Brg. N. Abut.	519+43.47	-24.00	502.49	502.51
C	519+53.63	-24.00	502.77	502.82
D	519+63.78	-24.00	503.06	503.14
E	519+73.94	-24.00	503.35	503.46
F	519+84.10	-24.00	503.65	503.77
G	519+94.25	-24.00	503.96	504.08
H	520+04.41	-24.00	504.26	504.37
I	520+14.57	-24.00	504.56	504.67
J	520+24.72	-24.00	504.86	504.95
K	520+34.88	-24.00	505.17	505.24
L	520+45.04	-24.00	505.47	505.52
M	520+55.20	-24.00	505.77	505.80
☉ Brg. Pier 1	520+65.97	-24.00	506.09	506.11
N	520+76.13	-24.00	506.39	506.41
O	520+86.28	-24.00	506.68	506.72
P	520+96.44	-24.00	506.98	507.03
Q	521+06.60	-24.00	507.27	507.34
R	521+16.75	-24.00	507.57	507.65
S	521+26.91	-24.00	507.86	507.95
T	521+37.07	-24.00	508.15	508.25
U	521+47.22	-24.00	508.44	508.54
V	521+57.38	-24.00	508.73	508.82
W	521+67.54	-24.00	509.01	509.09
X	521+77.70	-24.00	509.30	509.36
Y	521+87.85	-24.00	509.59	509.63
Z	521+98.01	-24.00	509.87	509.90
AA	522+08.17	-24.00	510.15	510.18
☉ Brg. Pier 2	522+15.95	-24.00	510.37	510.39
AB	522+26.11	-24.00	510.65	510.68
AC	522+36.26	-24.00	510.93	510.98
AD	522+46.42	-24.00	511.21	511.28
AE	522+56.58	-24.00	511.49	511.57
AF	522+66.73	-24.00	511.76	511.87
AG	522+76.89	-24.00	512.04	512.16
AH	522+87.05	-24.00	512.31	512.44
AI	522+97.20	-24.00	512.59	512.71
AJ	523+07.36	-24.00	512.86	512.97
AK	523+17.52	-24.00	513.13	513.22
AL	523+27.68	-24.00	513.40	513.46
☉ Brg. S. Abut.	523+39.96	-24.00	513.72	513.75
☉ Exp. Jt. S. Abut.	523+41.09	-24.00	513.75	513.77
Back S. Abut.	523+43.21	-24.00	513.81	513.83

GIRDER 3

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection and Grinding
Back N. Abut.	519+40.18	-17.75	502.66	502.68
☉ Exp. Jt. N. Abut.	519+42.32	-17.75	502.72	502.74
☉ Brg. N. Abut.	519+43.47	-17.75	502.75	502.77
C	519+53.61	-17.75	503.03	503.09
D	519+63.75	-17.75	503.32	503.40
E	519+73.89	-17.75	503.62	503.72
F	519+84.03	-17.75	503.91	504.03
G	519+94.17	-17.75	504.22	504.34
H	520+04.31	-17.75	504.52	504.63
I	520+14.45	-17.75	504.82	504.92
J	520+24.59	-17.75	505.12	505.21
K	520+34.73	-17.75	505.43	505.50
L	520+44.87	-17.75	505.73	505.78
M	520+55.01	-17.75	506.03	506.06
☉ Brg. Pier 1	520+65.97	-17.75	506.35	506.37
N	520+76.11	-17.75	506.65	506.68
O	520+86.25	-17.75	506.94	506.98
P	520+96.39	-17.75	507.24	507.29
Q	521+06.53	-17.75	507.53	507.60
R	521+16.67	-17.75	507.83	507.91
S	521+26.81	-17.75	508.12	508.21
T	521+36.95	-17.75	508.41	508.51
U	521+47.09	-17.75	508.70	508.79
V	521+57.23	-17.75	508.99	509.08
W	521+67.37	-17.75	509.27	509.35
X	521+77.51	-17.75	509.56	509.62
Y	521+87.65	-17.75	509.84	509.89
Z	521+97.79	-17.75	510.13	510.16
AA	522+07.93	-17.75	510.41	510.44
☉ Brg. Pier 2	522+15.95	-17.75	510.63	510.65
AB	522+26.09	-17.75	510.91	510.95
AC	522+36.23	-17.75	511.19	511.24
AD	522+46.37	-17.75	511.47	511.54
AE	522+56.51	-17.75	511.75	511.84
AF	522+66.65	-17.75	512.02	512.13
AG	522+76.79	-17.75	512.30	512.42
AH	522+86.93	-17.75	512.57	512.70
AI	522+97.07	-17.75	512.85	512.97
AJ	523+07.21	-17.75	513.12	513.23
AK	523+17.35	-17.75	513.39	513.48
AL	523+27.49	-17.75	513.66	513.72
☉ Brg. S. Abut.	523+39.96	-17.75	513.99	514.01
☉ Exp. Jt. S. Abut.	523+41.09	-17.75	514.02	514.04
Back S. Abut.	523+43.21	-17.75	514.07	514.09

CENTERLINE OF ROADWAY

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection and Grinding
Back N. Abut.	519+40.18	-12.00	502.90	502.92
☉ Exp. Jt. N. Abut.	519+42.32	-12.00	502.96	502.98
☉ Brg. N. Abut.	519+43.47	-12.00	502.99	503.01
C	519+53.59	-12.00	503.28	503.33
D	519+63.72	-12.00	503.56	503.64
E	519+73.84	-12.00	503.86	503.96
F	519+83.97	-12.00	504.15	504.27
G	519+94.09	-12.00	504.46	504.57
H	520+04.22	-12.00	504.76	504.87
I	520+14.34	-12.00	505.06	505.16
J	520+24.47	-12.00	505.36	505.45
K	520+34.59	-12.00	505.67	505.73
L	520+44.72	-12.00	505.97	506.01
M	520+54.84	-12.00	506.27	506.30
☉ Brg. Pier 1	520+65.97	-12.00	506.59	506.61
N	520+76.09	-12.00	506.89	506.92
O	520+86.22	-12.00	507.18	507.22
P	520+96.34	-12.00	507.48	507.53
Q	521+06.47	-12.00	507.77	507.84
R	521+16.59	-12.00	508.06	508.15
S	521+26.72	-12.00	508.36	508.45
T	521+36.84	-12.00	508.65	508.74
U	521+46.97	-12.00	508.93	509.03
V	521+57.09	-12.00	509.22	509.32
W	521+67.22	-12.00	509.51	509.59
X	521+77.34	-12.00	509.79	509.86
Y	521+87.46	-12.00	510.08	510.13
Z	521+97.59	-12.00	510.36	510.40
AA	522+07.71	-12.00	510.64	510.67
☉ Brg. Pier 2	522+15.95	-12.00	510.87	510.89
AB	522+26.07	-12.00	511.15	511.19
AC	522+36.20	-12.00	511.43	511.48
AD	522+46.32	-12.00	511.71	511.78
AE	522+56.45	-12.00	511.99	512.07
AF	522+66.57	-12.00	512.26	512.37
AG	522+76.70	-12.00	512.54	512.66
AH	522+86.82	-12.00	512.81	512.94
AI	522+96.95	-12.00	513.08	513.21
AJ	523+07.07	-12.00	513.35	513.46
AK	523+17.20	-12.00	513.62	513.71
AL	523+27.32	-12.00	513.89	513.95
☉ Brg. S. Abut.	523+39.96	-12.00	514.23	514.25
☉ Exp. Jt. S. Abut.	523+41.09	-12.00	514.26	514.28
Back S. Abut.	523+43.21	-12.00	514.31	514.33

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FILE NAME: \\SERVER18\Projects\54\22057.08 IDOT D3 PTB 204-028 WO 08 1-180 over Bureau Creek\DGN\Bridges\Final\Plotsheets\006-0194-66K66-013-Top of Slab Elevations (NB).dgn



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		CHECKED -	ACB	REVISED -	
PLOT SCALE =		DRAWN -	CMC	REVISED -	
PLOT DATE =	2/12/2024	CHECKED -	ACB	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TOP OF SLAB ELEVATIONS
STRUCTURE NO. 006-0194 (NB)

SHEET 13 OF 80 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
180	(06-2B-1)ES	BUREAU	327	153
CONTRACT NO. 66K66				
ILLINOIS		FED. AID PROJECT		

GIRDER 4

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection and Grinding
Back N. Abut.	519+40.18	-10.25	502.98	503.00
☉ Exp. Jt. N. Abut.	519+42.32	-10.25	503.03	503.06
☉ Brg. N. Abut.	519+43.47	-10.25	503.07	503.09
C	519+53.59	-10.25	503.35	503.40
D	519+63.71	-10.25	503.64	503.72
E	519+73.83	-10.25	503.93	504.03
F	519+83.95	-10.25	504.23	504.34
G	519+94.07	-10.25	504.53	504.65
H	520+04.19	-10.25	504.83	504.95
I	520+14.31	-10.25	505.13	505.24
J	520+24.43	-10.25	505.43	505.52
K	520+34.55	-10.25	505.74	505.81
L	520+44.67	-10.25	506.04	506.09
M	520+54.79	-10.25	506.34	506.37
☉ Brg. Pier 1	520+65.97	-10.25	506.67	506.69
N	520+76.09	-10.25	506.96	506.99
O	520+86.21	-10.25	507.26	507.29
P	520+96.33	-10.25	507.55	507.60
Q	521+06.45	-10.25	507.85	507.91
R	521+16.57	-10.25	508.14	508.22
S	521+26.69	-10.25	508.43	508.52
T	521+36.81	-10.25	508.72	508.82
U	521+46.93	-10.25	509.01	509.10
V	521+57.05	-10.25	509.29	509.39
W	521+67.17	-10.25	509.58	509.66
X	521+77.29	-10.25	509.87	509.93
Y	521+87.41	-10.25	510.15	510.20
Z	521+97.53	-10.25	510.43	510.47
AA	522+07.65	-10.25	510.72	510.74
☉ Brg. Pier 2	522+15.95	-10.25	510.95	510.97
AB	522+26.07	-10.25	511.23	511.26
AC	522+36.19	-10.25	511.51	511.55
AD	522+46.31	-10.25	511.78	511.85
AE	522+56.43	-10.25	512.06	512.15
AF	522+66.55	-10.25	512.34	512.44
AG	522+76.67	-10.25	512.61	512.73
AH	522+86.79	-10.25	512.88	513.01
AI	522+96.91	-10.25	513.16	513.28
AJ	523+07.03	-10.25	513.43	513.54
AK	523+17.15	-10.25	513.70	513.79
AL	523+27.27	-10.25	513.97	514.03
☉ Brg. S. Abut.	523+39.96	-10.25	514.30	514.32
☉ Exp. Jt. S. Abut.	523+41.09	-10.25	514.33	514.35
Back S. Abut.	523+43.21	-10.25	514.39	514.41

GIRDER 5

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection and Grinding
Back N. Abut.	519+40.19	-2.75	503.29	503.31
☉ Exp. Jt. N. Abut.	519+42.32	-2.75	503.35	503.37
☉ Brg. N. Abut.	519+43.47	-2.75	503.38	503.40
C	519+53.57	-2.75	503.66	503.72
D	519+63.67	-2.75	503.95	504.03
E	519+73.77	-2.75	504.24	504.34
F	519+83.87	-2.75	504.54	504.65
G	519+93.97	-2.75	504.84	504.96
H	520+04.07	-2.75	505.14	505.26
I	520+14.17	-2.75	505.44	505.55
J	520+24.27	-2.75	505.74	505.83
K	520+34.37	-2.75	506.05	506.12
L	520+44.47	-2.75	506.35	506.40
M	520+54.57	-2.75	506.65	506.68
☉ Brg. Pier 1	520+65.97	-2.75	506.98	507.00
N	520+76.07	-2.75	507.28	507.31
O	520+86.17	-2.75	507.57	507.61
P	520+96.27	-2.75	507.87	507.92
Q	521+06.37	-2.75	508.16	508.23
R	521+16.47	-2.75	508.45	508.53
S	521+26.57	-2.75	508.74	508.83
T	521+36.67	-2.75	509.03	509.13
U	521+46.77	-2.75	509.32	509.42
V	521+56.87	-2.75	509.60	509.70
W	521+66.97	-2.75	509.89	509.97
X	521+77.07	-2.75	510.18	510.24
Y	521+87.17	-2.75	510.46	510.51
Z	521+97.27	-2.75	510.74	510.78
AA	522+07.37	-2.75	511.02	511.05
☉ Brg. Pier 2	522+15.95	-2.75	511.26	511.28
AB	522+26.05	-2.75	511.54	511.57
AC	522+36.15	-2.75	511.82	511.87
AD	522+46.25	-2.75	512.10	512.16
AE	522+56.35	-2.75	512.37	512.46
AF	522+66.45	-2.75	512.65	512.75
AG	522+76.55	-2.75	512.92	513.04
AH	522+86.65	-2.75	513.19	513.32
AI	522+96.75	-2.75	513.47	513.59
AJ	523+06.85	-2.75	513.74	513.85
AK	523+16.95	-2.75	514.01	514.10
AL	523+27.05	-2.75	514.28	514.34
☉ Brg. S. Abut.	523+39.96	-2.75	514.62	514.64
☉ Exp. Jt. S. Abut.	523+41.09	-2.75	514.65	514.67
Back S. Abut.	523+43.21	-2.75	514.70	514.72

WEST EDGE OF PAVEMENT & NB PROFILE GRADE

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection and Grinding
Back N. Abut.	519+40.19	0.00	503.41	503.43
☉ Exp. Jt. N. Abut.	519+42.33	0.00	503.47	503.49
☉ Brg. N. Abut.	519+43.47	0.00	503.50	503.52
C	519+53.56	0.00	503.78	503.83
D	519+63.65	0.00	504.07	504.14
E	519+73.75	0.00	504.36	504.46
F	519+83.84	0.00	504.65	504.77
G	519+93.93	0.00	504.95	505.07
H	520+04.02	0.00	505.26	505.37
I	520+14.12	0.00	505.56	505.66
J	520+24.21	0.00	505.86	505.94
K	520+34.30	0.00	506.16	506.23
L	520+44.39	0.00	506.46	506.51
M	520+54.49	0.00	506.76	506.79
☉ Brg. Pier 1	520+65.97	0.00	507.10	507.12
N	520+76.06	0.00	507.39	507.42
O	520+86.15	0.00	507.69	507.72
P	520+96.25	0.00	507.98	508.03
Q	521+06.34	0.00	508.27	508.34
R	521+16.43	0.00	508.56	508.65
S	521+26.52	0.00	508.85	508.95
T	521+36.62	0.00	509.14	509.24
U	521+46.71	0.00	509.43	509.53
V	521+56.80	0.00	509.72	509.81
W	521+66.89	0.00	510.00	510.08
X	521+76.99	0.00	510.29	510.35
Y	521+87.08	0.00	510.57	510.62
Z	521+97.17	0.00	510.85	510.89
AA	522+07.26	0.00	511.14	511.16
☉ Brg. Pier 2	522+15.95	0.00	511.38	511.40
AB	522+26.04	0.00	511.66	511.69
AC	522+36.13	0.00	511.93	511.98
AD	522+46.23	0.00	512.21	512.28
AE	522+56.32	0.00	512.49	512.58
AF	522+66.41	0.00	512.76	512.87
AG	522+76.50	0.00	513.04	513.16
AH	522+86.60	0.00	513.31	513.44
AI	522+96.69	0.00	513.58	513.70
AJ	523+06.78	0.00	513.85	513.96
AK	523+16.87	0.00	514.12	514.21
AL	523+26.97	0.00	514.39	514.45
☉ Brg. S. Abut.	523+39.96	0.00	514.73	514.75
☉ Exp. Jt. S. Abut.	523+41.09	0.00	514.76	514.78
Back S. Abut.	523+43.21	0.00	514.82	514.84

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PLOT SCALE =	DRAWN - CMC	REVISED -
PLOT DATE = 2/12/2024	CHECKED - ACB	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TOP OF SLAB ELEVATIONS
STRUCTURE NO. 006-0194 (NB)

SHEET 14 OF 80 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
180	(06-2B-1)ES	BUREAU	327	154
CONTRACT NO. 66K66				
ILLINOIS		FED. AID PROJECT		

GIRDER 6

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection and Grinding
Back N. Abut.	519+40.20	4.75	503.61	503.63
☒ Exp. Jt. N. Abut.	519+42.33	4.75	503.66	503.69
☒ Brg. N. Abut.	519+43.47	4.75	503.70	503.72
C	519+53.55	4.75	503.98	504.03
D	519+63.63	4.75	504.26	504.34
E	519+73.71	4.75	504.56	504.66
F	519+83.79	4.75	504.85	504.97
G	519+93.87	4.75	505.15	505.27
H	520+03.95	4.75	505.45	505.57
I	520+14.03	4.75	505.75	505.86
J	520+24.11	4.75	506.05	506.14
K	520+34.19	4.75	506.36	506.42
L	520+44.27	4.75	506.66	506.70
M	520+54.35	4.75	506.95	506.98
☒ Brg. Pier 1	520+65.97	4.75	507.30	507.32
N	520+76.05	4.75	507.59	507.62
O	520+86.13	4.75	507.89	507.92
P	520+96.21	4.75	508.18	508.23
Q	521+06.29	4.75	508.47	508.54
R	521+16.37	4.75	508.76	508.84
S	521+26.45	4.75	509.05	509.15
T	521+36.53	4.75	509.34	509.44
U	521+46.61	4.75	509.63	509.73
V	521+56.69	4.75	509.91	510.01
W	521+66.77	4.75	510.20	510.28
X	521+76.85	4.75	510.48	510.55
Y	521+86.93	4.75	510.77	510.81
Z	521+97.01	4.75	511.05	511.08
AA	522+07.09	4.75	511.33	511.36
☒ Brg. Pier 2	522+15.95	4.75	511.58	511.60
AB	522+26.03	4.75	511.86	511.89
AC	522+36.11	4.75	512.13	512.18
AD	522+46.19	4.75	512.41	512.48
AE	522+56.27	4.75	512.69	512.77
AF	522+66.35	4.75	512.96	513.07
AG	522+76.43	4.75	513.23	513.36
AH	522+86.51	4.75	513.51	513.64
AI	522+96.59	4.75	513.78	513.90
AJ	523+06.67	4.75	514.05	514.16
AK	523+16.75	4.75	514.32	514.41
AL	523+26.83	4.75	514.58	514.64
☒ Brg. S. Abut.	523+39.96	4.75	514.93	514.95
☒ Exp. Jt. S. Abut.	523+41.09	4.75	514.96	514.98
Back S. Abut.	523+43.21	4.75	515.02	515.04

WEST PARAPET LINE

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection and Grinding
Back N. Abut.	519+40.20	6.00	503.66	503.68
☒ Exp. Jt. N. Abut.	519+42.33	6.00	503.72	503.74
☒ Brg. N. Abut.	519+43.47	6.00	503.75	503.77
C	519+53.55	6.00	504.03	504.08
D	519+63.62	6.00	504.32	504.40
E	519+73.70	6.00	504.61	504.71
F	519+83.78	6.00	504.90	505.02
G	519+93.85	6.00	505.20	505.32
H	520+03.93	6.00	505.50	505.62
I	520+14.01	6.00	505.80	505.91
J	520+24.08	6.00	506.11	506.19
K	520+34.16	6.00	506.41	506.48
L	520+44.23	6.00	506.71	506.76
M	520+54.31	6.00	507.01	507.04
☒ Brg. Pier 1	520+65.97	6.00	507.35	507.37
N	520+76.05	6.00	507.64	507.67
O	520+86.12	6.00	507.94	507.97
P	520+96.20	6.00	508.23	508.28
Q	521+06.28	6.00	508.52	508.59
R	521+16.35	6.00	508.81	508.90
S	521+26.43	6.00	509.10	509.20
T	521+36.51	6.00	509.39	509.49
U	521+46.58	6.00	509.68	509.78
V	521+56.66	6.00	509.97	510.06
W	521+66.73	6.00	510.25	510.33
X	521+76.81	6.00	510.54	510.60
Y	521+86.89	6.00	510.82	510.87
Z	521+96.96	6.00	511.10	511.13
AA	522+07.04	6.00	511.38	511.41
☒ Brg. Pier 2	522+15.95	6.00	511.63	511.65
AB	522+26.03	6.00	511.91	511.94
AC	522+36.10	6.00	512.19	512.23
AD	522+46.18	6.00	512.46	512.53
AE	522+56.26	6.00	512.74	512.83
AF	522+66.33	6.00	513.01	513.12
AG	522+76.41	6.00	513.29	513.41
AH	522+86.49	6.00	513.56	513.69
AI	522+96.56	6.00	513.83	513.95
AJ	523+06.64	6.00	514.10	514.21
AK	523+16.71	6.00	514.37	514.46
AL	523+26.79	6.00	514.64	514.70
☒ Brg. S. Abut.	523+39.96	6.00	514.98	515.01
☒ Exp. Jt. S. Abut.	523+41.09	6.00	515.01	515.03
Back S. Abut.	523+43.21	6.00	515.07	515.09

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PLOT DATE =	2/12/2024	CHECKED -	ACB	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TOP OF SLAB ELEVATIONS
STRUCTURE NO. 006-0194 (NB)

SHEET 15 OF 80 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
180	(06-2B-1)ES	BUREAU	327	155
CONTRACT NO. 66K66				
ILLINOIS FED. AID PROJECT				

EAST EDGE OF SHOULDER

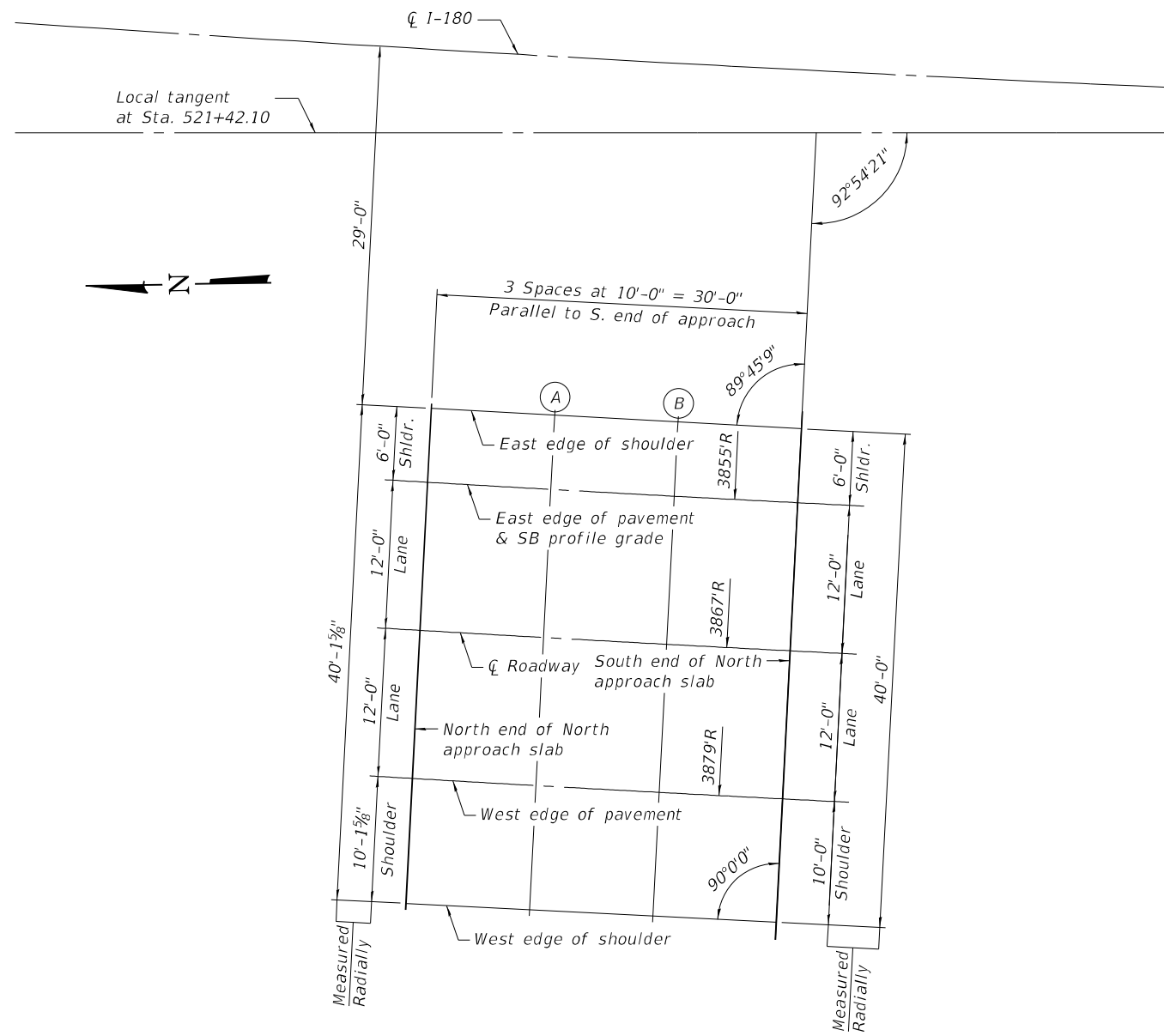
Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Grinding
N. End of N. Aprr Slab	519+16.37	-6.00	501.75	501.77
A	519+26.30	-6.00	502.02	502.04
B	519+36.22	-6.00	502.29	502.31
S. End of N. Aprr Slab	519+46.15	-6.00	502.56	502.58

EAST EDGE OF PAVEMENT & SB PROFILE GRADE

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Grinding
N. End of N. Aprr Slab	519+16.42	0.00	502.01	502.03
A	519+26.33	0.00	502.27	502.29
B	519+36.24	0.00	502.54	502.56
S. End of N. Aprr Slab	519+46.15	0.00	502.81	502.83

CL ROADWAY

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Grinding
N. End of N. Aprr Slab	519+16.52	12.00	502.51	502.53
A	519+26.40	12.00	502.78	502.80
B	519+36.28	12.00	503.04	503.06
S. End of N. Aprr Slab	519+46.16	12.00	503.32	503.34



WEST EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Grinding
N. End of N. Aprr Slab	519+16.62	24.00	503.02	503.04
A	519+26.47	24.00	503.28	503.30
B	519+36.32	24.00	503.55	503.57
S. End of N. Aprr Slab	519+46.16	24.00	503.82	503.84

WEST EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Grinding
N. End of N. Aprr Slab	519+16.70	34.13	503.45	503.47
A	519+26.53	34.06	503.70	503.73
B	519+36.35	34.02	503.97	503.99
S. End of N. Aprr Slab	519+46.17	34.00	504.24	504.26

PLAN

MODEL: Default
FILE NAME: \\SERVER18\Projects\5422057.08 IDOT D3 PTB 204-028 WO 08 1-180 over Bureau Creek\DGN\Bridges\Final\Plotsheets\006-0193&0194-66K66-016-Approach_Slab_Elevations.dgn

EAST EDGE OF SHOULDER

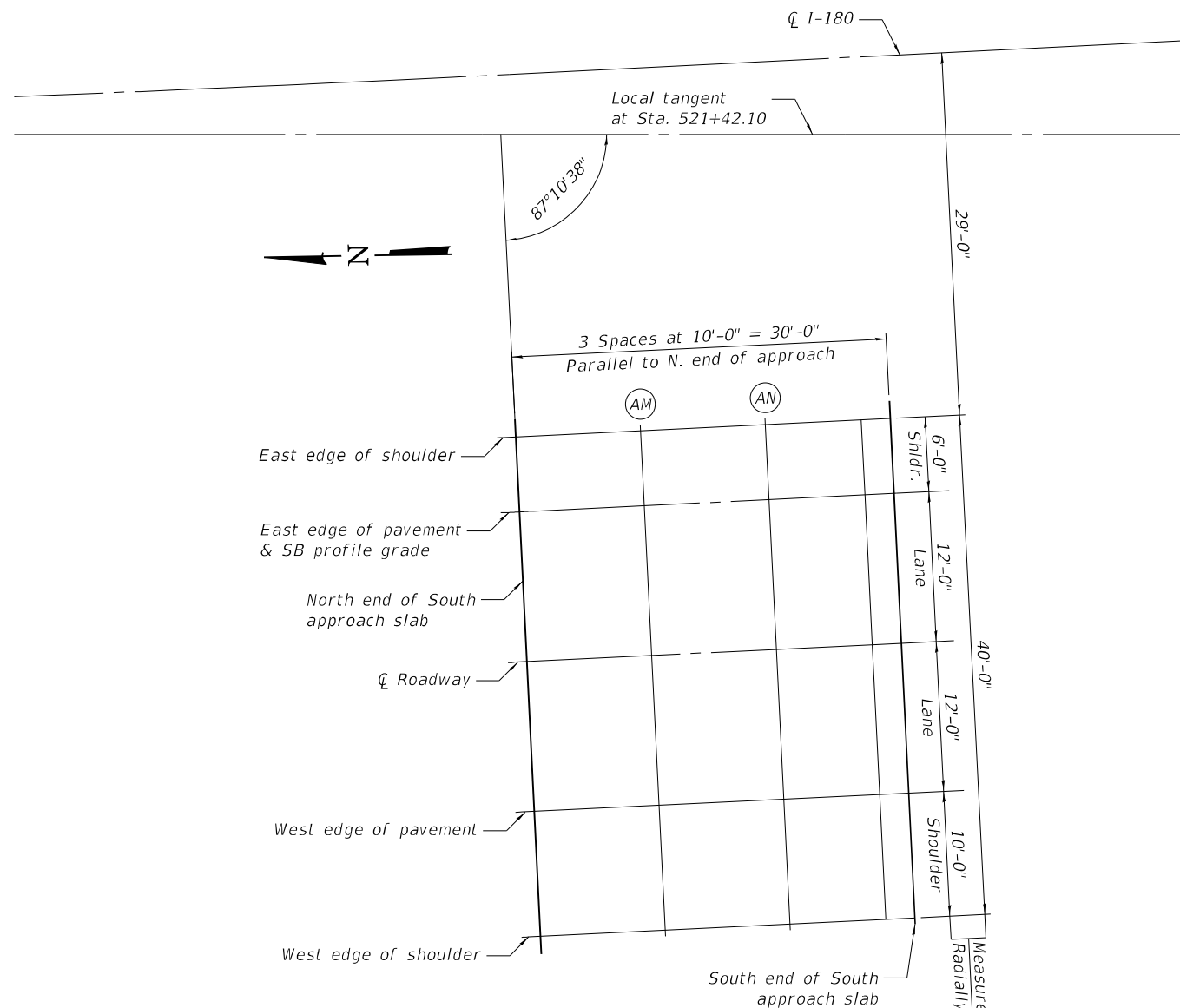
Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Grinding
N. End of S. Appr Slab	523+32.54	-6.00	514.04	514.06
AM	523+42.53	-6.00	514.33	514.35
AN	523+52.53	-6.00	514.63	514.65
S. End of S. Appr Slab	523+62.53	-6.00	514.93	514.95

EAST EDGE OF PAVEMENT & SB PROFILE GRADE

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Grinding
N. End of S. Appr Slab	523+32.54	0.00	514.29	514.31
AM	523+42.53	0.00	514.58	514.61
AN	523+52.53	0.00	514.88	514.90
S. End of S. Appr Slab	523+62.53	0.00	515.18	515.20

CL ROADWAY

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Grinding
N. End of S. Appr Slab	523+32.53	12.00	514.79	514.81
AM	523+42.52	12.00	515.09	515.11
AN	523+52.52	12.00	515.39	515.41
S. End of S. Appr Slab	523+62.52	12.00	515.68	515.71



PLAN

WEST EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Grinding
N. End of S. Appr Slab	523+32.52	24.00	515.29	515.32
AM	523+42.51	24.00	515.59	515.61
AN	523+52.51	24.00	515.89	515.91
S. End of S. Appr Slab	523+62.51	24.00	516.19	516.21

WEST EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Grinding
N. End of S. Appr Slab	523+32.52	34.00	515.71	515.74
AM	523+42.50	34.00	516.01	516.03
AN	523+52.50	34.00	516.31	516.33
S. End of S. Appr Slab	523+62.50	34.00	516.61	516.63

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EAST EDGE OF SHOULDER

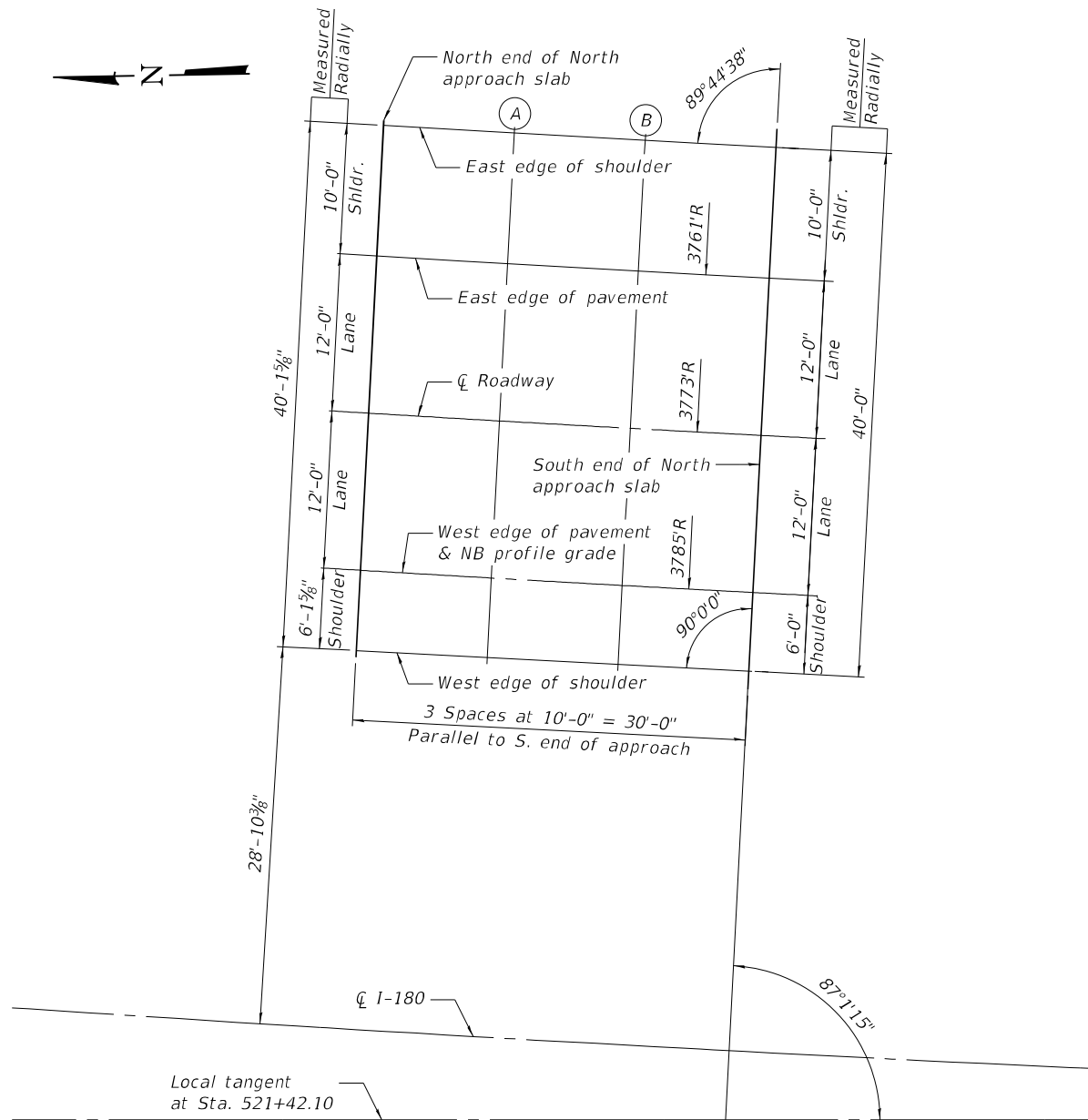
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N. End of N. Appr Slab	519+10.63	-34.00	501.19	501.21
A	519+20.81	-34.00	501.45	501.48
B	519+30.99	-34.01	501.73	501.75
S. End of N. Appr Slab	519+41.18	-34.00	502.01	502.03

EAST EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Grinding
N. End of N. Appr Slab	519+10.71	-24.00	501.61	501.63
A	519+20.87	-24.00	501.88	501.90
B	519+31.03	-24.00	502.15	502.17
S. End of N. Appr Slab	519+41.18	-24.00	502.43	502.45

CL ROADWAY

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Grinding
N. End of N. Appr Slab	519+10.82	-12.00	502.12	502.14
A	519+20.94	-12.00	502.38	502.40
B	519+31.07	-12.00	502.65	502.67
S. End of N. Appr Slab	519+41.19	-12.00	502.93	502.95



PLAN

WEST EDGE OF PAVEMENT & NB PROFILE GRADE

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Grinding
N. End of N. Appr Slab	519+10.92	0.00	502.62	502.64
A	519+21.01	0.00	502.89	502.91
B	519+31.11	0.00	503.16	503.18
S. End of N. Appr Slab	519+41.20	0.00	503.43	503.46

WEST EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Grinding
N. End of N. Appr Slab	519+10.97	6.14	502.88	502.90
A	519+21.05	6.06	503.14	503.16
B	519+31.13	6.02	503.41	503.43
S. End of N. Appr Slab	519+41.20	6.00	503.69	503.71

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EAST EDGE OF SHOULDER

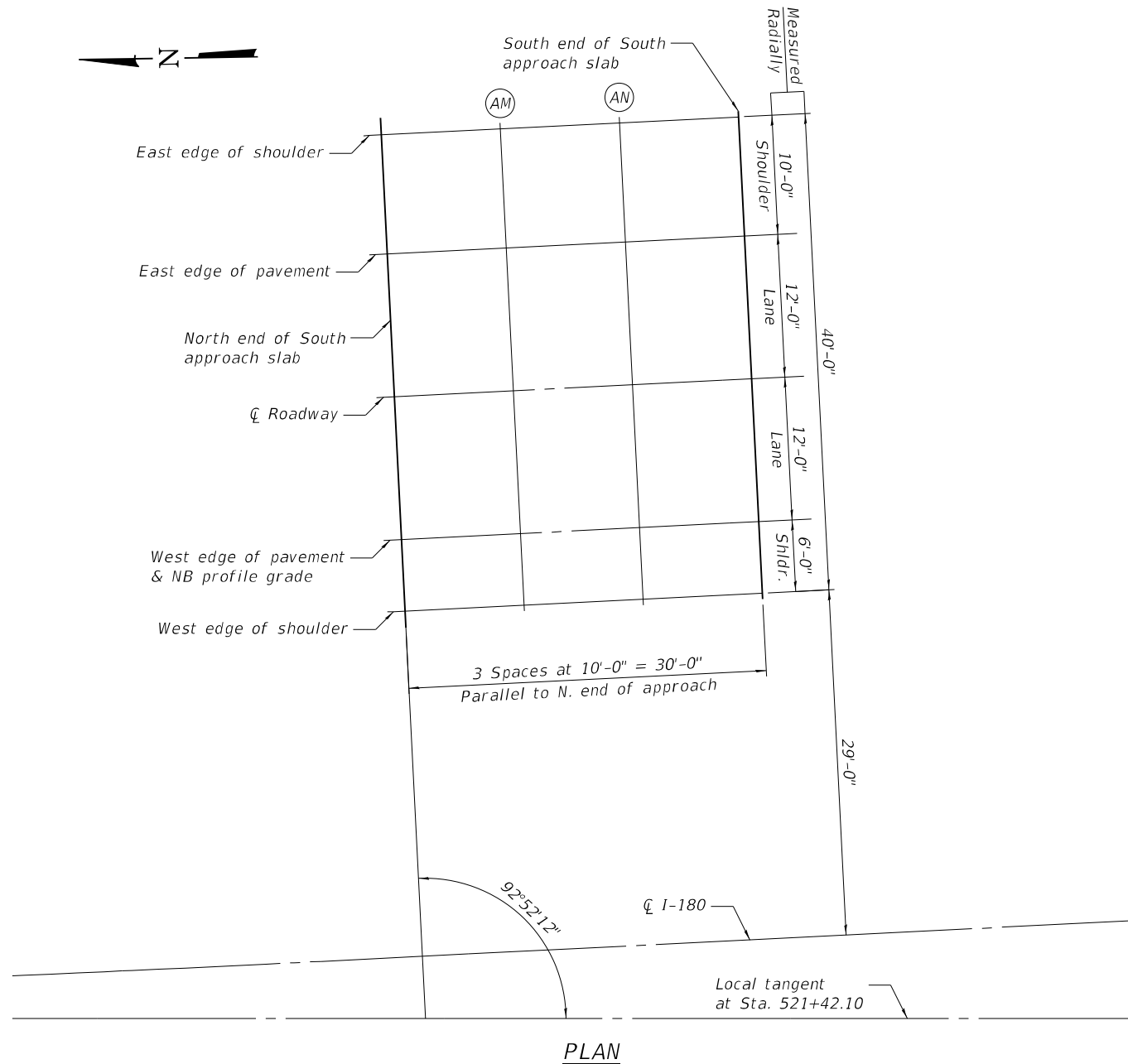
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AM	523+52.21	-34.00	513.63	513.65
AN	523+62.21	-34.00	513.89	513.91
S. End of S. Appr Slab	523+72.21	-34.00	514.15	514.17

EAST EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Grinding
N. End of S. Appr Slab	523+42.21	-24.00	513.78	513.80
AM	523+52.21	-24.00	514.05	514.07
AN	523+62.21	-24.00	514.31	514.33
S. End of S. Appr Slab	523+72.21	-24.00	514.57	514.59

CL ROADWAY

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Grinding
N. End of S. Appr Slab	523+42.21	-12.00	514.29	514.31
AM	523+52.21	-12.00	514.55	514.57
AN	523+62.21	-12.00	514.81	514.83
S. End of S. Appr Slab	523+72.21	-12.00	515.07	515.09



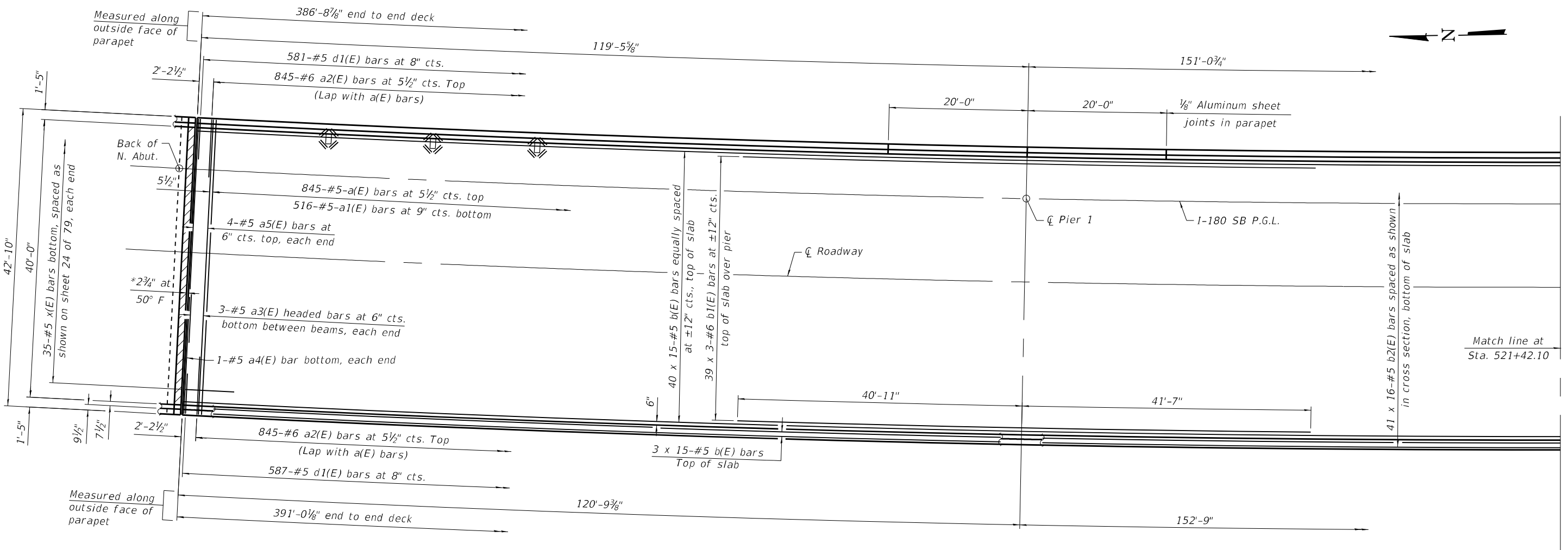
WEST EDGE OF PAVEMENT & NB PROFILE GRADE

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Grinding
N. End of S. Appr Slab	523+42.21	0.00	514.79	514.81
AM	523+52.21	0.00	515.05	515.08
AN	523+62.21	0.00	515.32	515.34
S. End of S. Appr Slab	523+72.21	0.00	515.58	515.60

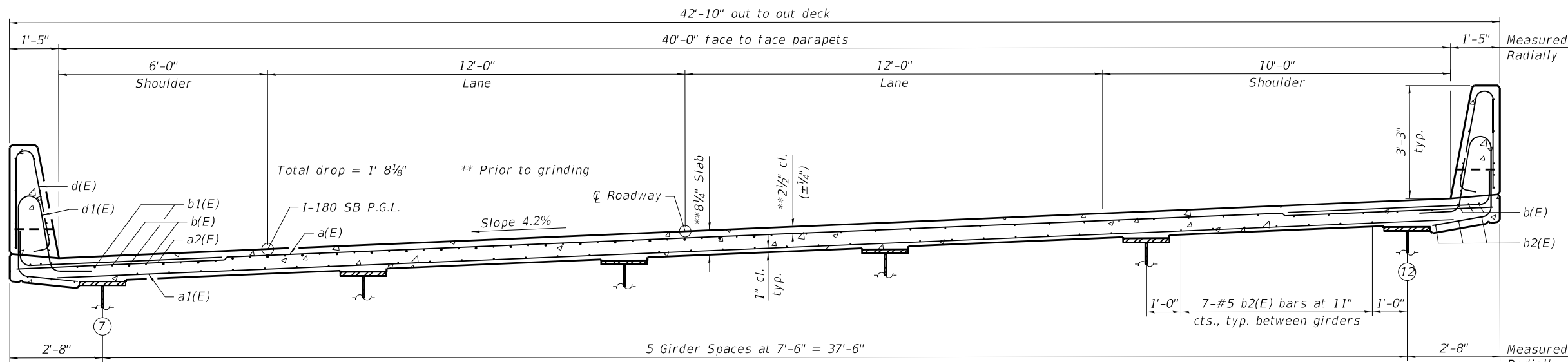
WEST EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Grinding
N. End of S. Appr Slab	523+42.21	6.00	515.04	515.06
AM	523+52.21	6.00	515.31	515.33
AN	523+62.21	6.00	515.57	515.59
S. End of S. Appr Slab	523+72.21	6.00	515.83	515.85

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PARTIAL PLAN



CROSS SECTION
(Looking South)

* Dimension showing concrete opening.
For joint opening, see sheet 34 of 80.

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

Notes:
See sheet 23 of 80 for superstructure details and Bill of Material.
Bars indicated thus 20 x 3-#5 etc. indicates 20 lines of bars with 3 lengths per line.
See sheet 21 of 80 for remaining spans.
See sheet 22 of 80 for parapet reinforcement.
The "a" bars are placed radially.
The "b" bars are placed concentrically.

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EFK•Moen
Civil Engineering Design

USER NAME = ABenz
PLOT SCALE =
PLOT DATE = 2/12/2024

DESIGNED - CMC
CHECKED - ACB
DRAWN - CMC
CHECKED - ACB

REVISED -
REVISED -
REVISED -
REVISED -

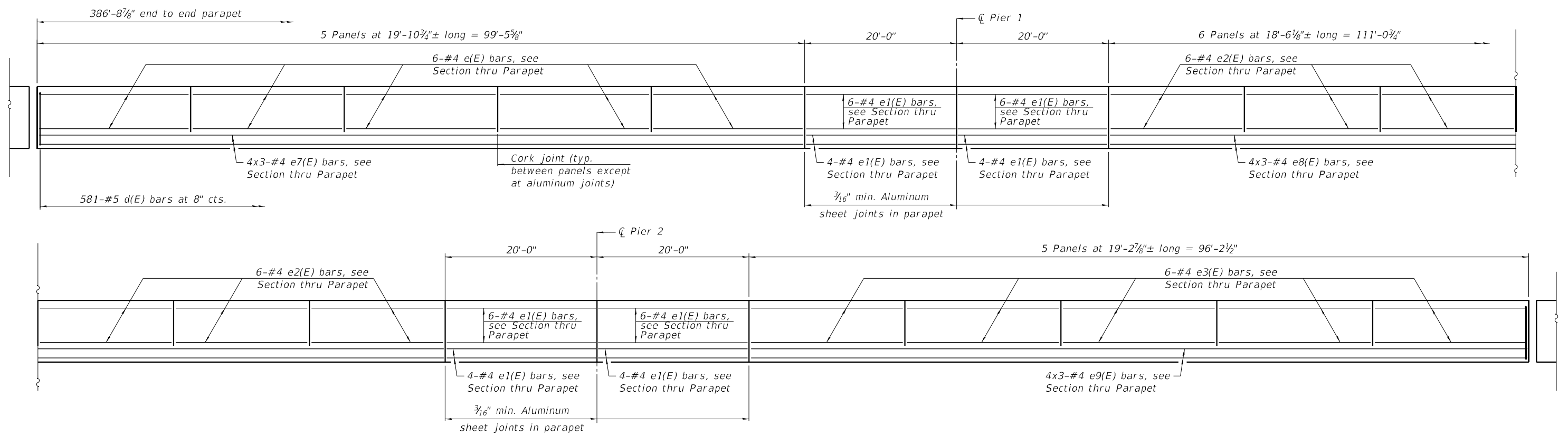
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUPERSTRUCTURE
STRUCTURE 006-0193 (SB)

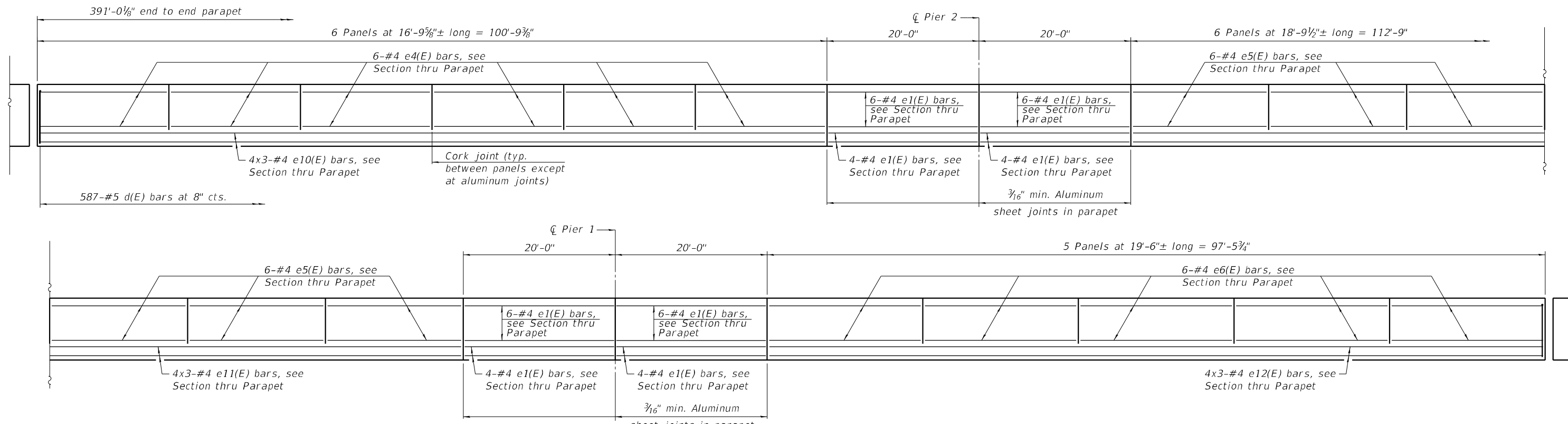
SHEET 20 OF 80 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
180	(06-2B-1)ES	BUREAU	327	160
CONTRACT NO. 66K66				
ILLINOIS FED. AID PROJECT				

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INSIDE ELEVATION OF EAST PARAPET



INSIDE ELEVATION OF WEST PARAPET

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

Notes:
 See sheet 23 of 80 for parapet joint details and Bill of Material.
 Dimensions taken along back face of parapets.



USER NAME = ABenz	DESIGNED - CMC	REVISED -
PLOT SCALE =	CHECKED - ACB	REVISED -
PLOT DATE = 2/12/2024	DRAWN - CMC	REVISED -
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

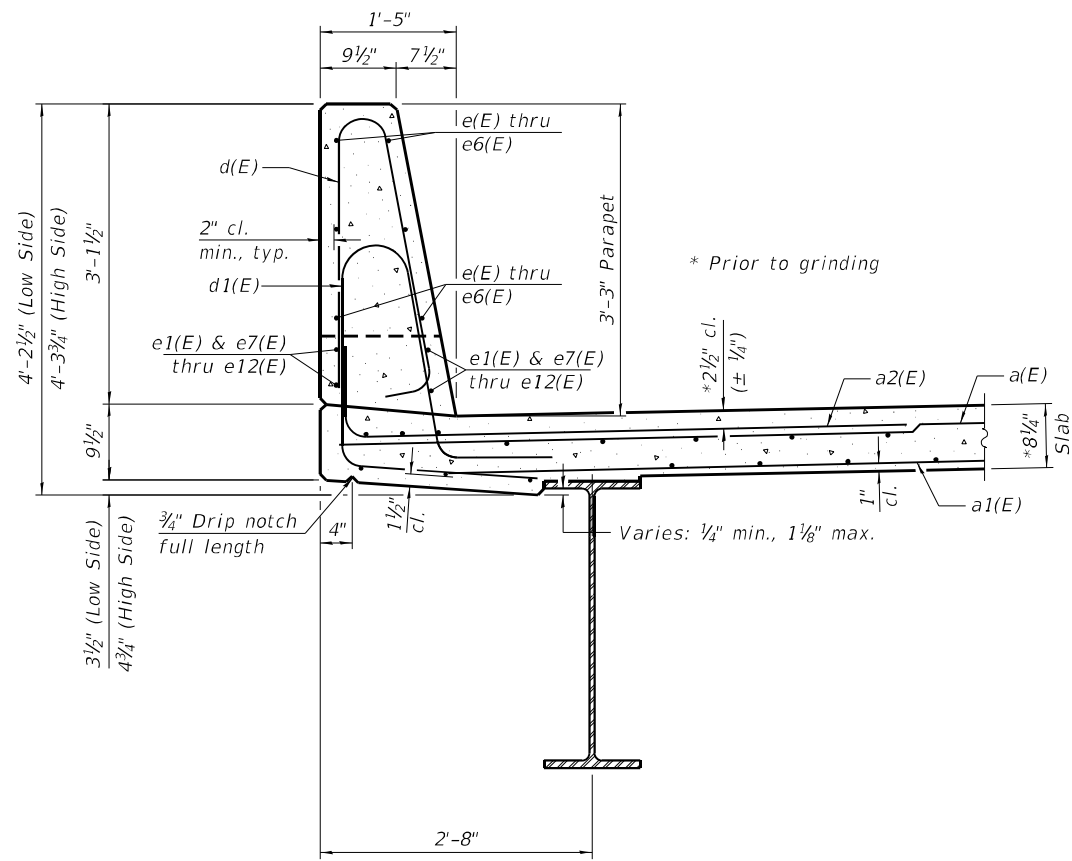
**SUPERSTRUCTURE DETAILS
STRUCTURE NO. 006-0193 (SB)**

SHEET 22 OF 80 SHEETS

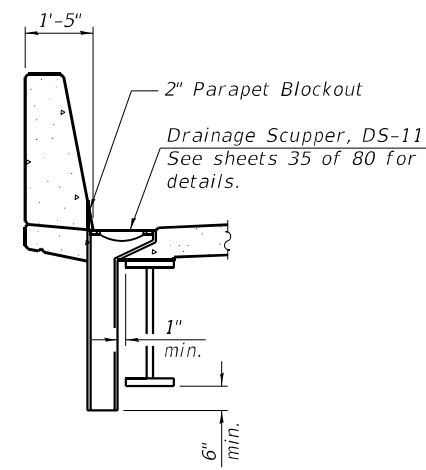
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
180	(06-2B-1)ES	BUREAU	327	162
CONTRACT NO. 66K66				

ILLINOIS FED. AID PROJECT

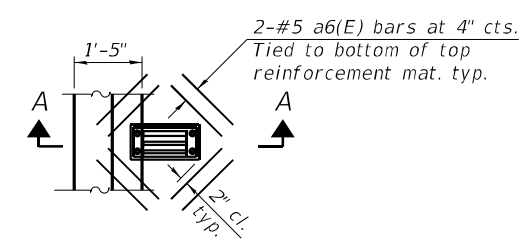
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SECTION THRU PARAPET

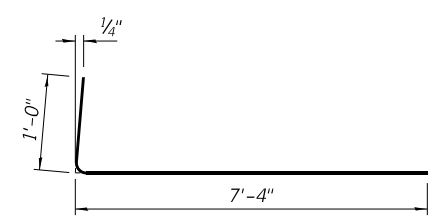


SECTION A-A

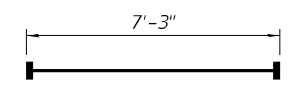


PLAN

Note:
Cut longitudinal reinforcement to clear drainage scuppers.

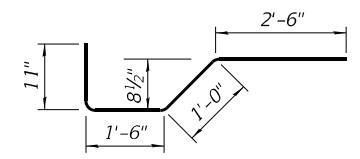


BAR a2(E)

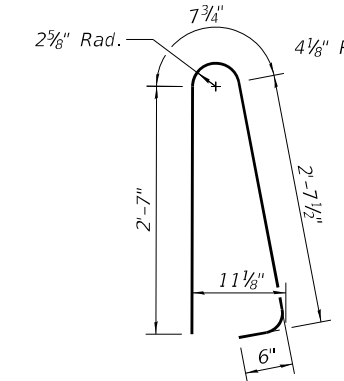


BAR a3(E)

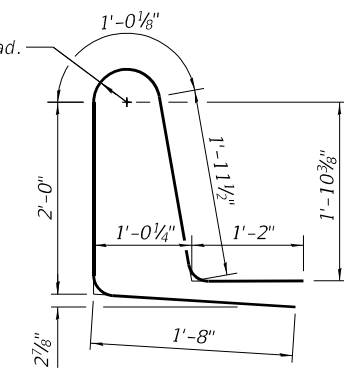
(Headed, 60-#5 Bar terminators)



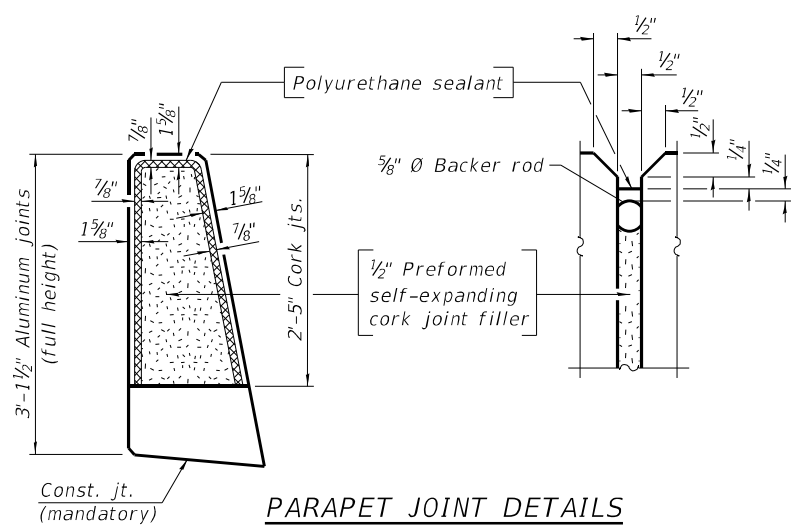
BAR x(E)



BAR d(E)



BAR d1(E)



PARAPET JOINT DETAILS

Notes:
 The 3/16" minimum aluminum sheet shall be ASTM B 209 alloy 3003-H14 and coated with 5 mils of either bitumen paint or epoxy paint to minimize reaction with wet concrete. Cost included with Concrete Superstructure.
 The Polyurethane Sealant shall be according to Article 1050.04 of the Std. Spec. and the color shall be gray.
 Bar terminators, paid for separately. See Total Bill of Material.

**SUPERSTRUCTURE
BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
a(E)	845	#5	42'-6"	—
a1(E)	516	#5	40'-6"	—
a2(E)	1690	#6	8'-4"	└
a3(E)	30	#5	7'-3"	—
a4(E)	2	#5	42'-6"	—
a5(E)	8	#5	40'-6"	—
a6(E)	24	#5	1'-6"	—
b(E)	690	#5	29'-4"	—
b1(E)	234	#6	30'-9"	—
b2(E)	656	#5	27'-9"	—
d(E)	1168	#5	6'-5"	└
d1(E)	1168	#5	7'-10"	└
e(E)	30	#4	19'-6"	—
e1(E)	80	#4	19'-8"	—
e2(E)	36	#4	18'-2"	—
e3(E)	30	#4	18'-11"	—
e4(E)	36	#4	16'-6"	—
e5(E)	36	#4	18'-6"	—
e6(E)	30	#4	19'-2"	—
e7(E)	12	#4	34'-8"	—
e8(E)	12	#4	38'-7"	—
e9(E)	12	#4	33'-7"	—
e10(E)	12	#4	35'-2"	—
e11(E)	12	#4	39'-2"	—
e12(E)	12	#4	34'-0"	—
x(E)	70	#5	5'-11"	└
Reinforcement Bars, Epoxy Coated		Lbs.	155,010	
Concrete Superstructure		Cu. Yds.	560.6	

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

SDE-SB-2 10-27-2023



USER NAME = ABenz	DESIGNED - CMC	REVISED -
PLOT SCALE =	CHECKED - ACB	REVISED -
PLOT DATE = 2/12/2024	DRAWN - CMC	REVISED -
	CHECKED - ACB	REVISED -

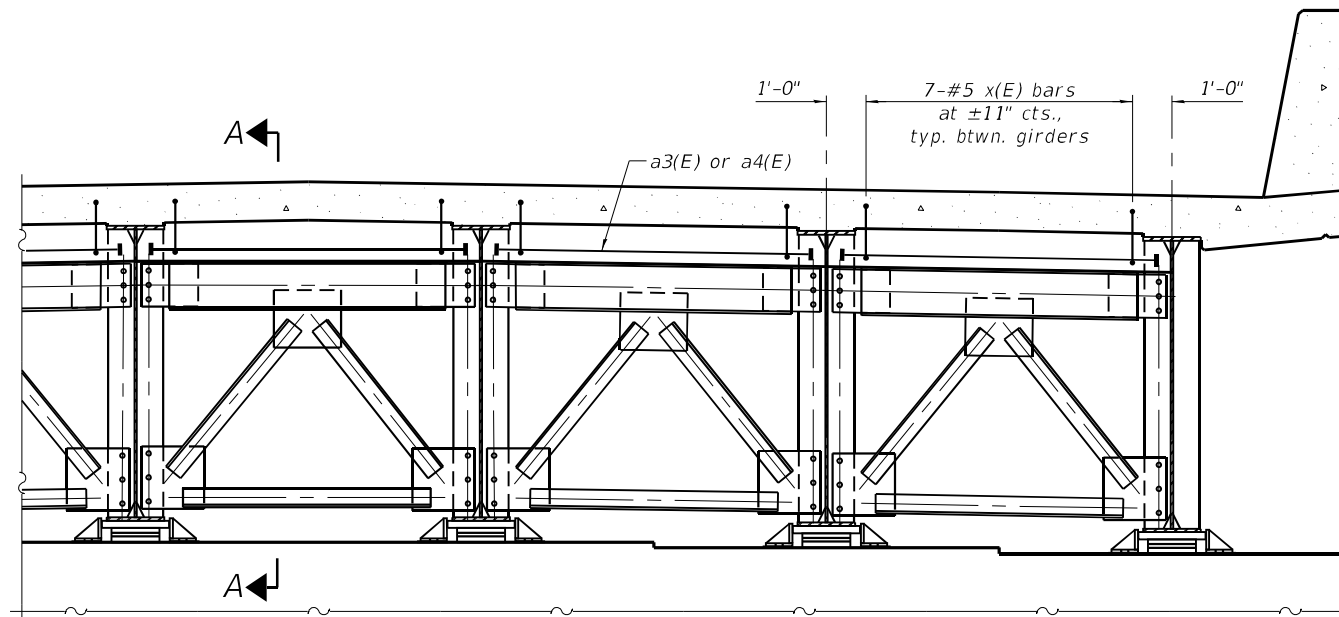
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**SUPERSTRUCTURE DETAILS
STRUCTURE 006-0193 (SB)**

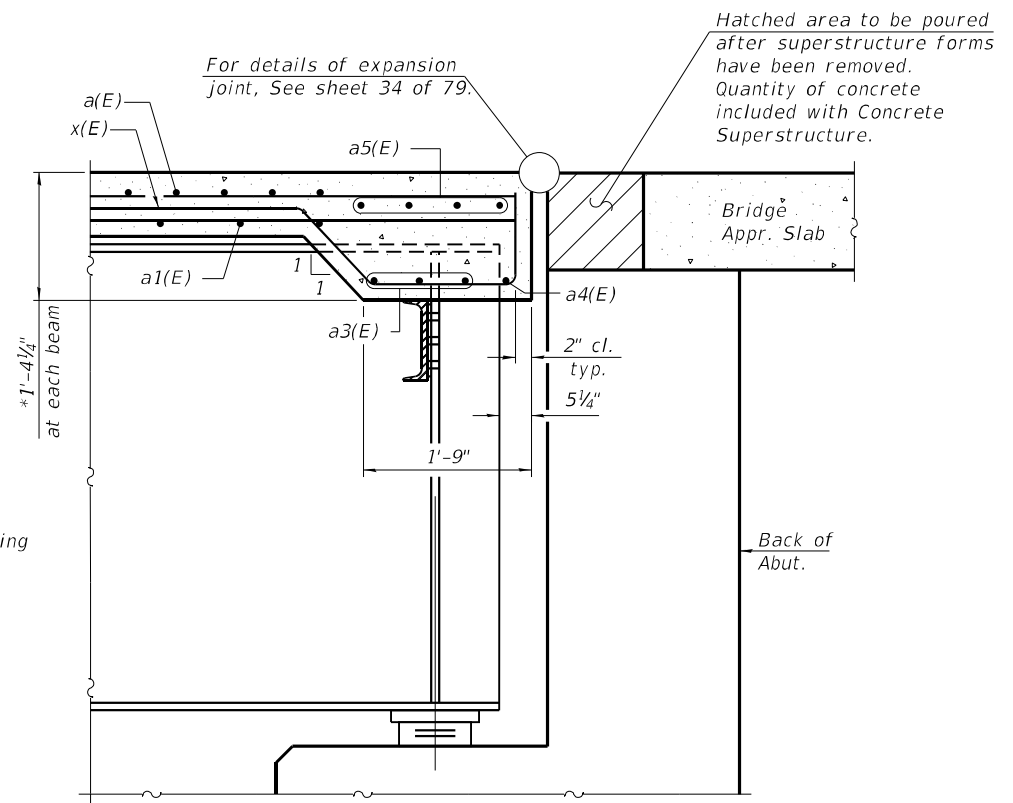
SHEET 23 OF 80 SHEETS

F.A.I. RTE. 180	SECTION (06-2B-1)ES	COUNTY BUREAU	TOTAL SHEETS 327	SHEET NO. 163
CONTRACT NO. 66K66				
ILLINOIS FED. AID PROJECT				

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DIAPHRAGM AT ABUTMENT



SECTION A-A
 (Full cross frame not shown for clarity)

* Prior to grinding

Notes:
 See sheet 23 of 80 for superstructure details and Bill of Material.

DEA-SB≥40-0 1-1-2020

EFK•Moen Civil Engineering Design	USER NAME = ABenz	DESIGNED - CMC	REVISED -
	PLOT SCALE =	CHECKED - ACB	REVISED -
	PLOT DATE = 2/12/2024	DRAWN - CMC	REVISED -
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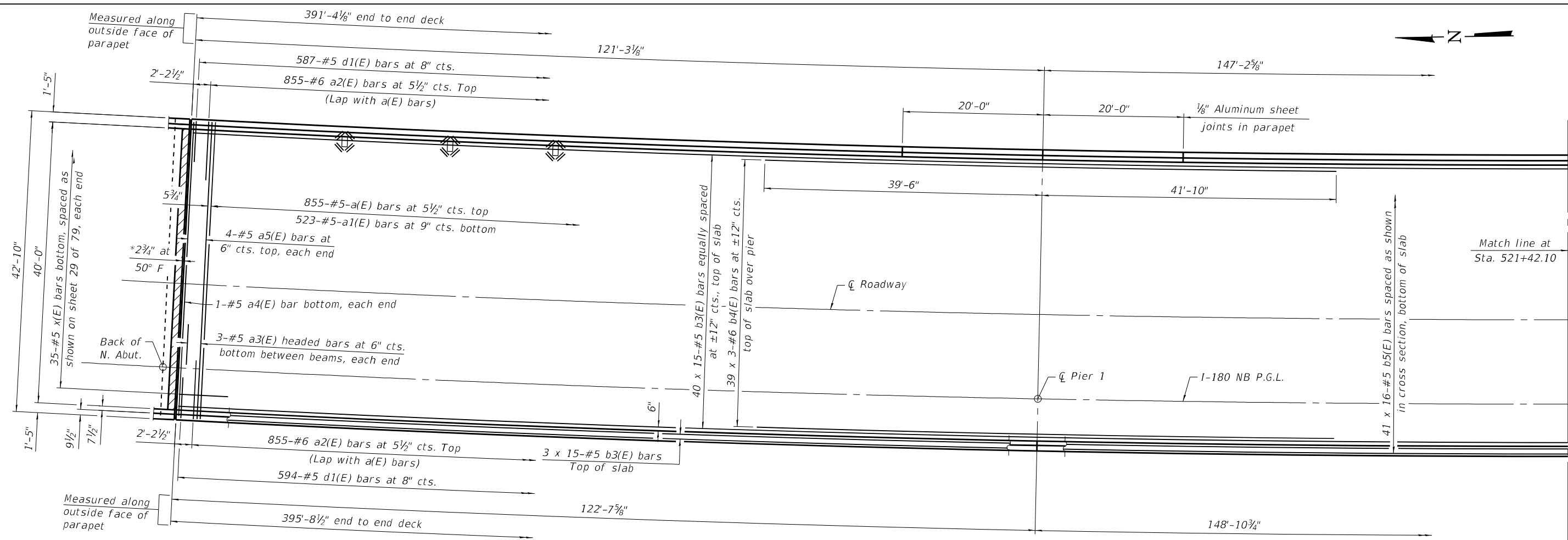
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DIAPHRAGM DETAILS
STRUCTURE NO. 006-0193 (SB)

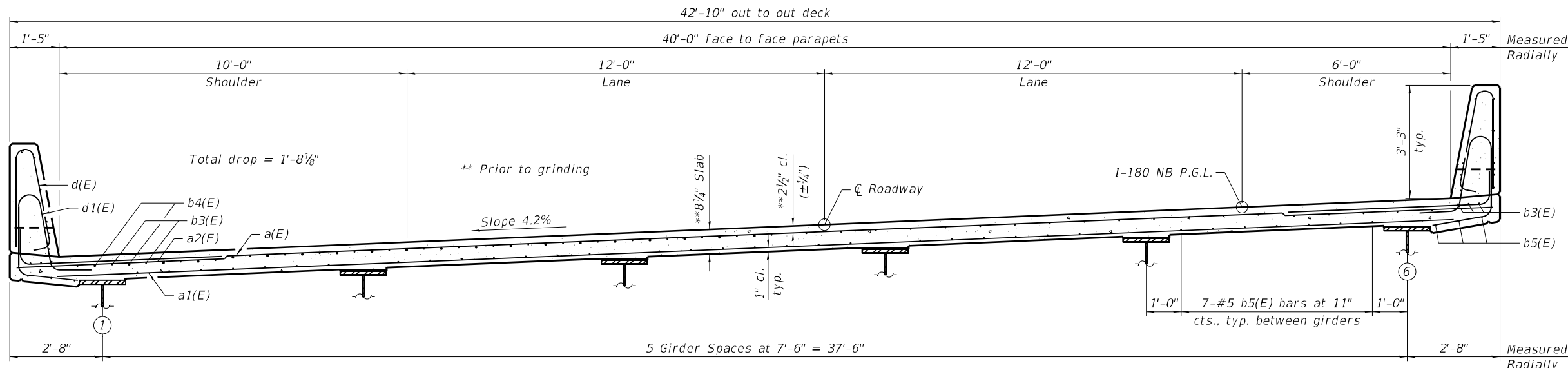
SHEET 24 OF 80 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
180	(06-2B-1)ES	BUREAU	327	164
CONTRACT NO. 66K66				
ILLINOIS FED. AID PROJECT				

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PARTIAL PLAN



CROSS SECTION
(Looking South)

* Dimension showing concrete opening.
 For joint opening, see sheet 34 of 80.

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

Notes:
 See sheet 28 of 80 for superstructure details and Bill of Material.
 Bars indicated thus 20 x 3-#5 etc. indicates 20 lines of bars with 3 lengths per line.
 See sheet 26 of 80 for remaining spans.
 See sheet 27 of 80 for parapet reinforcement.
 The "a" bars are placed radially.
 The "b" bars are placed concentrically.

EFK Moen
 Civil Engineering Design

USER NAME = ABenz	DESIGNED - CMC	REVISED -
PLOT SCALE =	CHECKED - ACB	REVISED -
PLOT DATE = 2/12/2024	DRAWN - CMC	REVISED -
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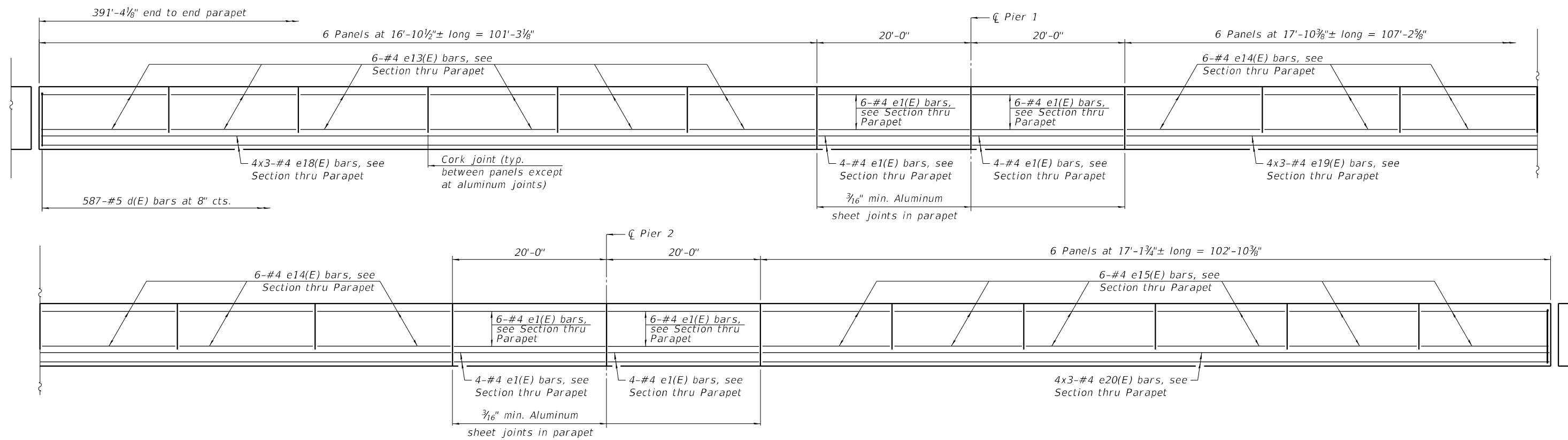
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUPERSTRUCTURE
STRUCTURE 006-0194 (NB)

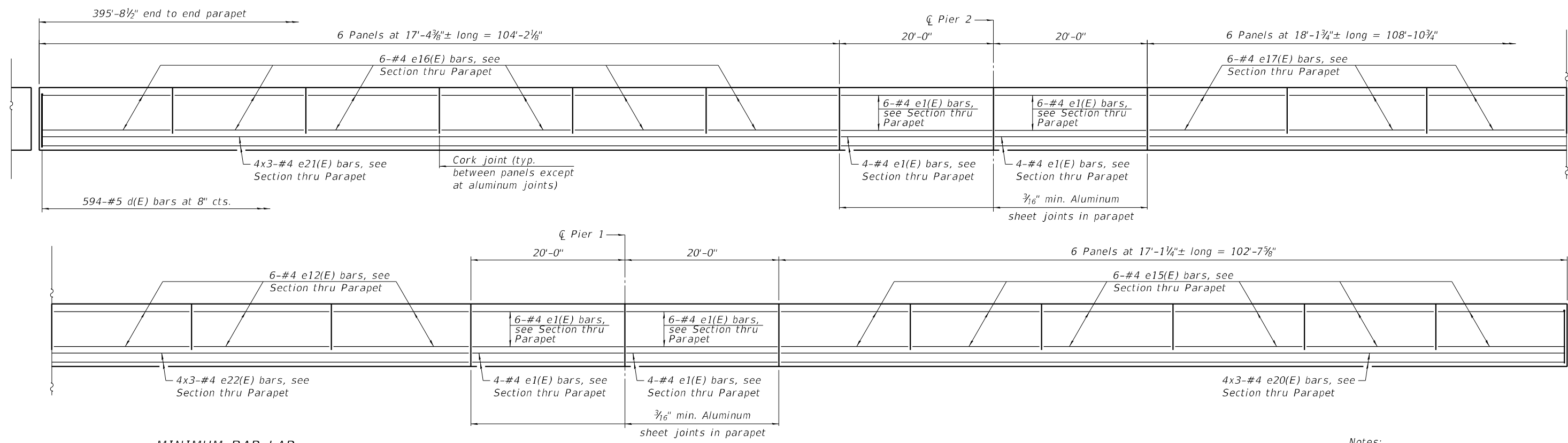
SHEET 25 OF 80 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 66K66				
ILLINOIS FED. AID PROJECT				

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INSIDE ELEVATION OF EAST PARAPET



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

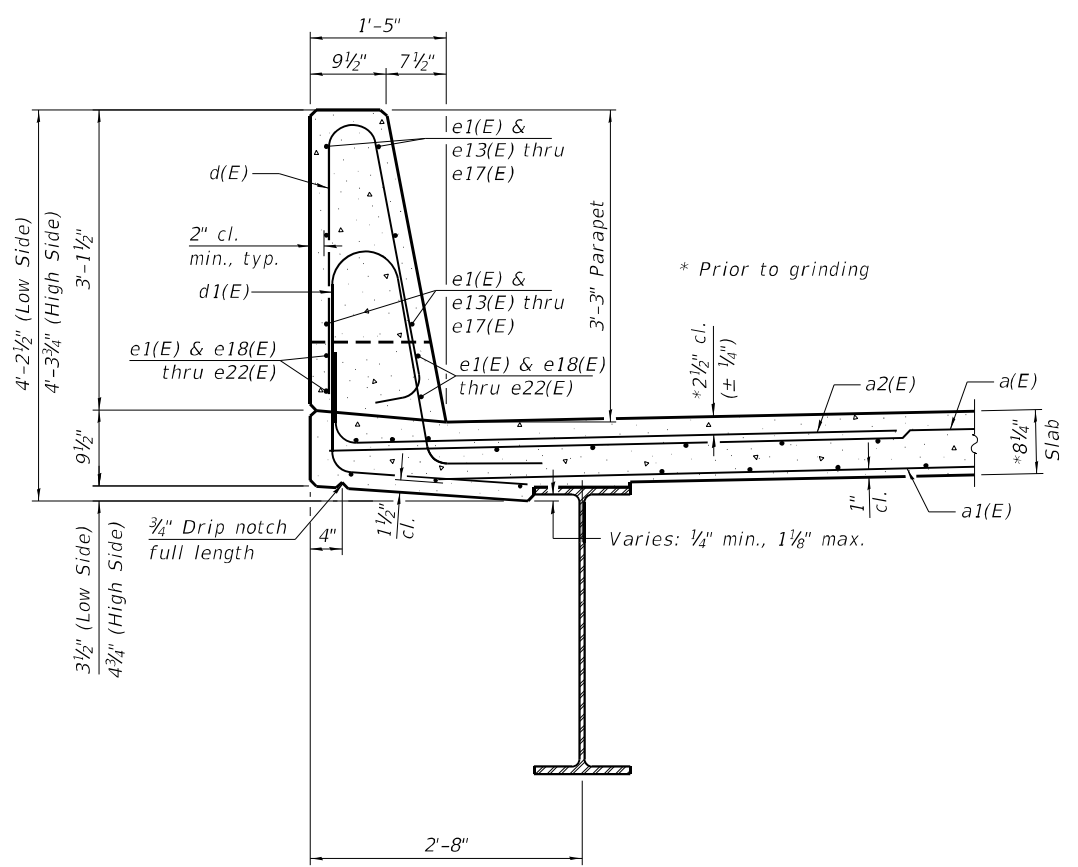
INSIDE ELEVATION OF WEST PARAPET

Notes:
 See sheet 28 of 80 for parapet joint details and Bill of Material.
 Dimensions taken along back face of parapets.

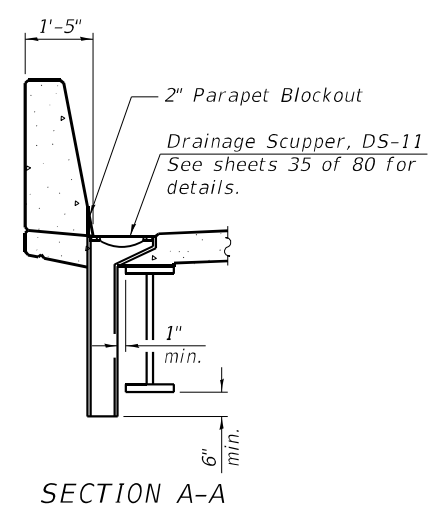
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
180	(06-2B-1)ES	BUREAU	327	167
CONTRACT NO. 66K66				

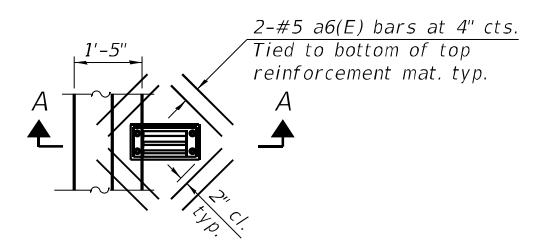
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SECTION THRU PARAPET

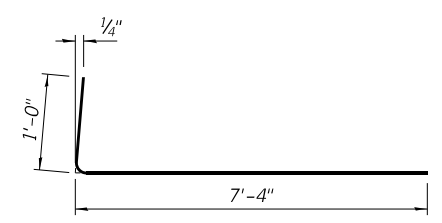


SECTION A-A

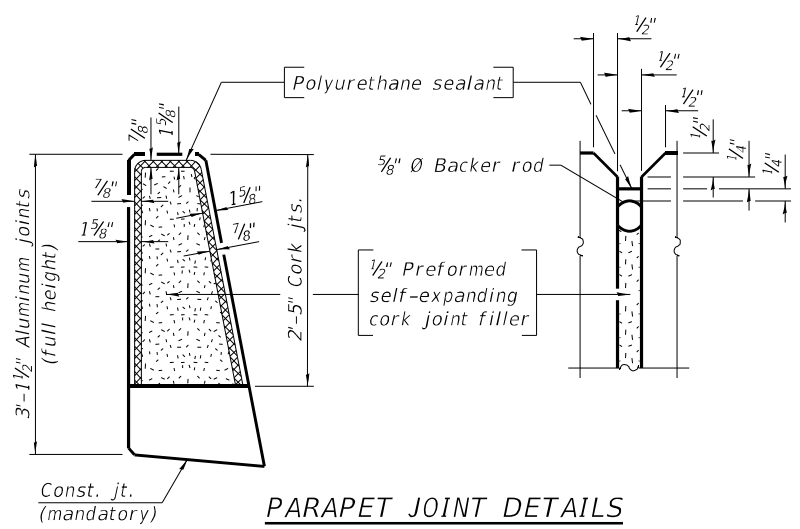


PLAN

Note:
Cut longitudinal reinforcement to clear drainage scuppers.

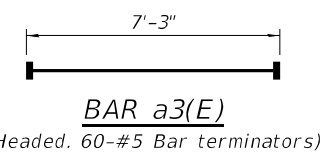


BAR a2(E)



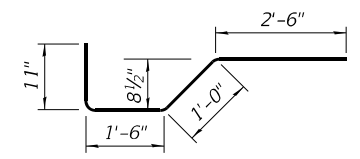
PARAPET JOINT DETAILS

Notes:
 The 3/16" minimum aluminum sheet shall be ASTM B 209 alloy 3003-H14 and coated with 5 mils of either bitumen paint or epoxy paint to minimize reaction with wet concrete. Cost included with Concrete Superstructure.
 The Polyurethane Sealant shall be according to Article 1050.04 of the Std. Spec. and the color shall be gray.
 Bar terminators, paid for separately. See Total Bill of Material.

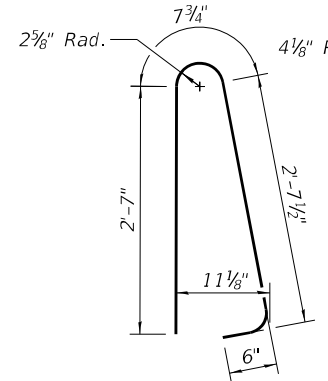


BAR a3(E)

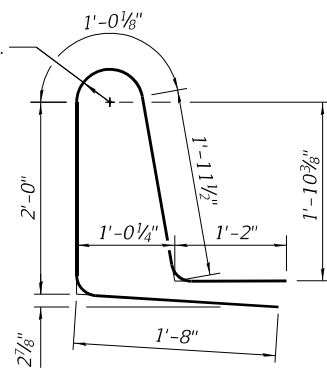
(Headed, 60-#5 Bar terminators)



BAR x(E)



BAR d(E)



BAR d1(E)

**SUPERSTRUCTURE
BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
a(E)	855	#5	42'-6"	—
a1(E)	523	#5	40'-6"	—
a2(E)	1710	#6	8'-4"	U
a3(E)	30	#5	7'-3"	—
a4(E)	2	#5	42'-6"	—
a5(E)	8	#5	40'-6"	—
a6(E)	24	#5	1'-6"	—
b3(E)	690	#5	29'-8"	—
b4(E)	234	#6	30'-4"	—
b5(E)	656	#5	28'-0"	—
d(E)	1181	#5	6'-5"	U
d1(E)	1181	#5	7'-10"	U
e1(E)	80	#4	19'-8"	—
e13(E)	36	#4	16'-6"	—
e14(E)	36	#4	17'-6"	—
e15(E)	72	#4	16'-9"	—
e16(E)	36	#4	17'-0"	—
e17(E)	36	#4	17'-10"	—
e18(E)	12	#4	35'-4"	—
e19(E)	12	#4	37'-6"	—
e20(E)	24	#4	35'-10"	—
e21(E)	12	#4	36'-3"	—
e22(E)	12	#4	37'-10"	—
x(E)	70	#5	5'-11"	U
Reinforcement Bars, Epoxy Coated		Lbs.	156,510	
Concrete Superstructure		Cu. Yds.	567.0	

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

SDE-SB-2 10-27-2023

EFK Moen
Civil Engineering Design

USER NAME = ABenz	DESIGNED - CMC	REVISED -
PLOT SCALE =	CHECKED - ACB	REVISED -
PLOT DATE = 2/12/2024	DRAWN - CMC	REVISED -
	CHECKED - ACB	REVISED -

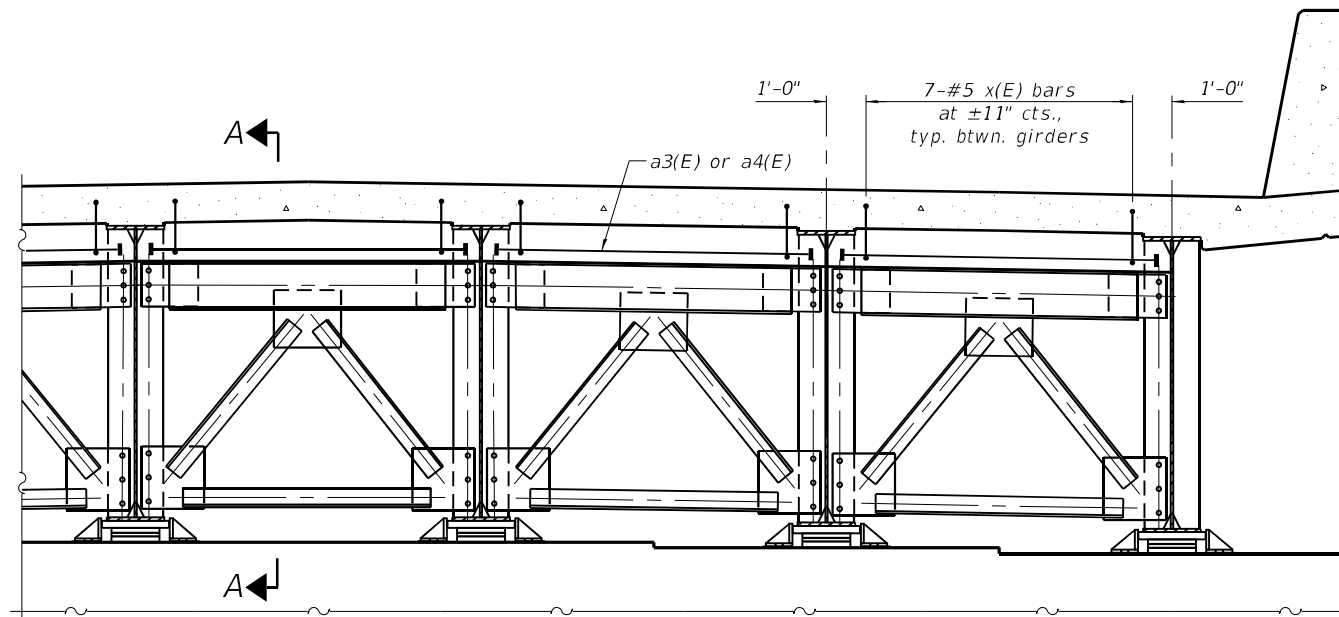
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**SUPERSTRUCTURE DETAILS
STRUCTURE 006-0194 (NB)**

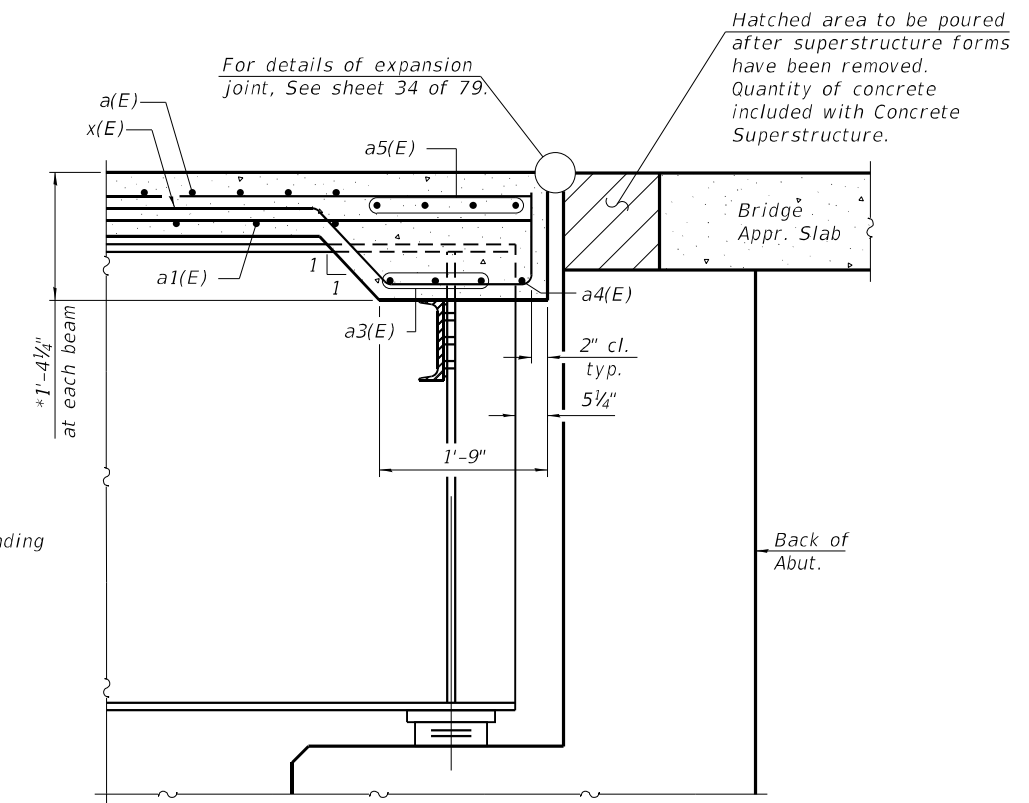
SHEET 28 OF 80 SHEETS

F.A.I. RTE. 180	SECTION (06-2B-1)ES	COUNTY BUREAU	TOTAL SHEETS 327	SHEET NO. 168
CONTRACT NO. 66K66				
ILLINOIS FED. AID PROJECT				

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DIAPHRAGM AT ABUTMENT



SECTION A-A
 (Full cross frame not shown for clarity)

* Prior to grinding

Notes:
 See sheet 28 of 80 for superstructure details and Bill of Material.

DEA-SB≥40-0 1-1-2020

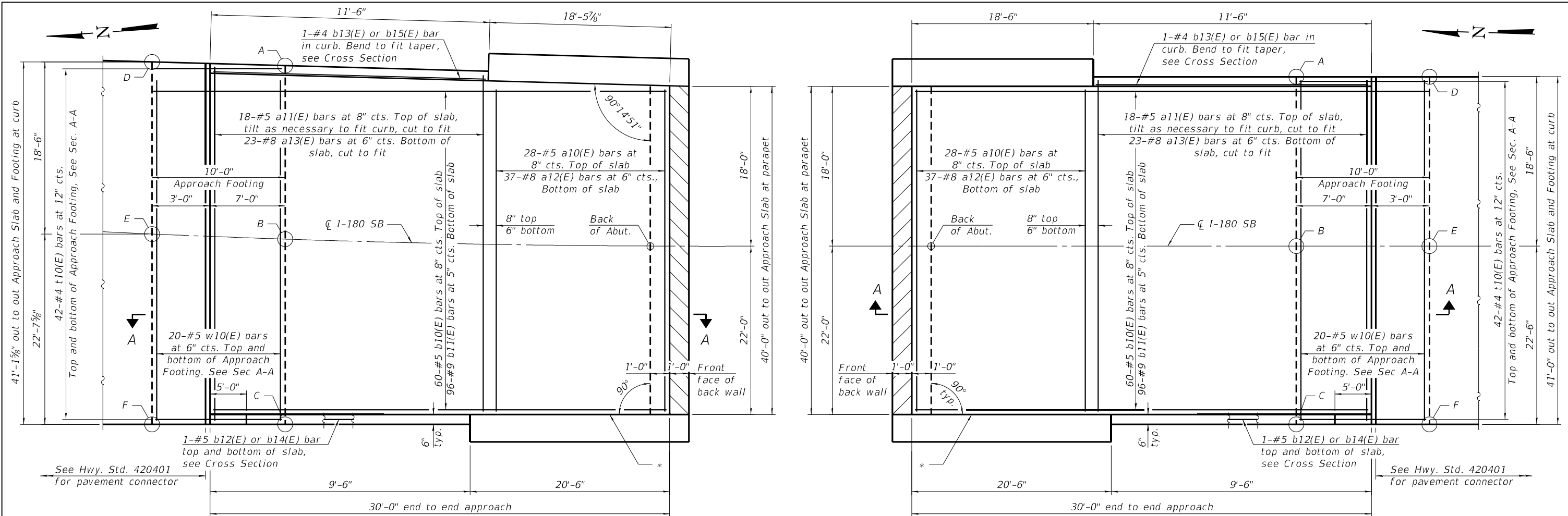
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		CHECKED - ACB	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DIAPHRAGM DETAILS
STRUCTURE 006-0194 (NB)

SHEET 29 OF 80 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
180	(06-2B-1)ES	BUREAU	327	169
CONTRACT NO. 66K66				
ILLINOIS FED. AID PROJECT				



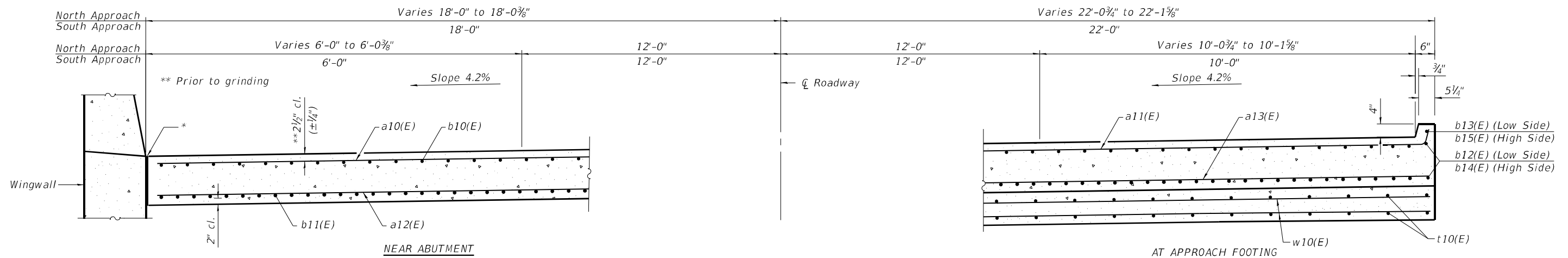
PLAN
(North approach)

TOP AND BOTTOM ELEVATIONS
FOR APPROACH FOOTING

PLAN
(South approach)

North Approach			South Approach		
Point/Location	Top	Bottom	Point/Location	Top	Bottom
A	500.67	499.83	A	513.45	512.62
B	501.45	500.61	B	514.23	513.39
C	502.40	501.57	C	515.17	514.34
D	500.40	499.57	D	513.75	512.91
E	501.18	500.35	E	514.53	513.69
F	502.14	501.30	F	515.47	514.64

* 1/2" Preformed Expansion Joint Filler according to Article 1051.09 of the Standard Specifications; full depth of slab, full length of parapet. Typ. each parapet.



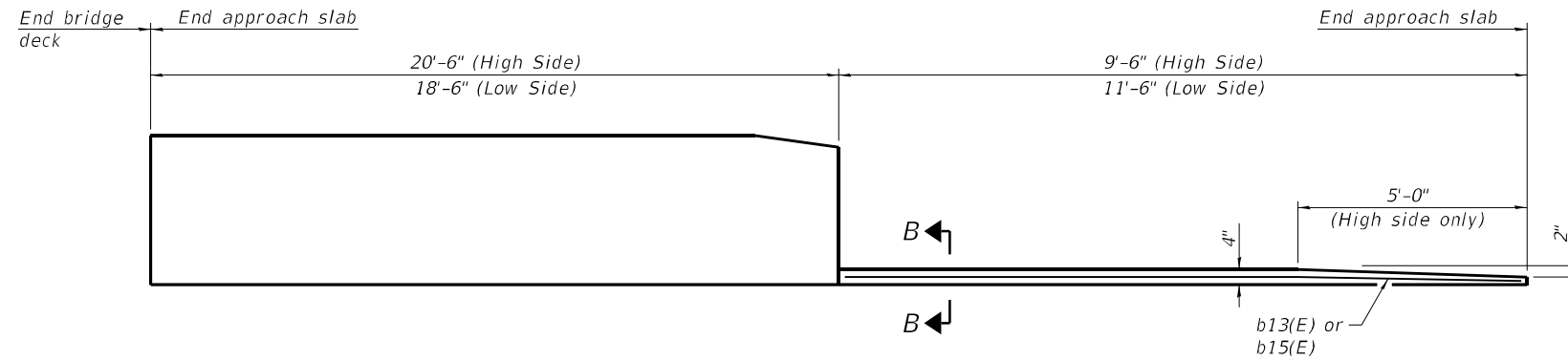
CROSS SECTION
(Looking South)

(Sheet 1 of 2)

BASA-CIP-3944CS-0 2-1-2023

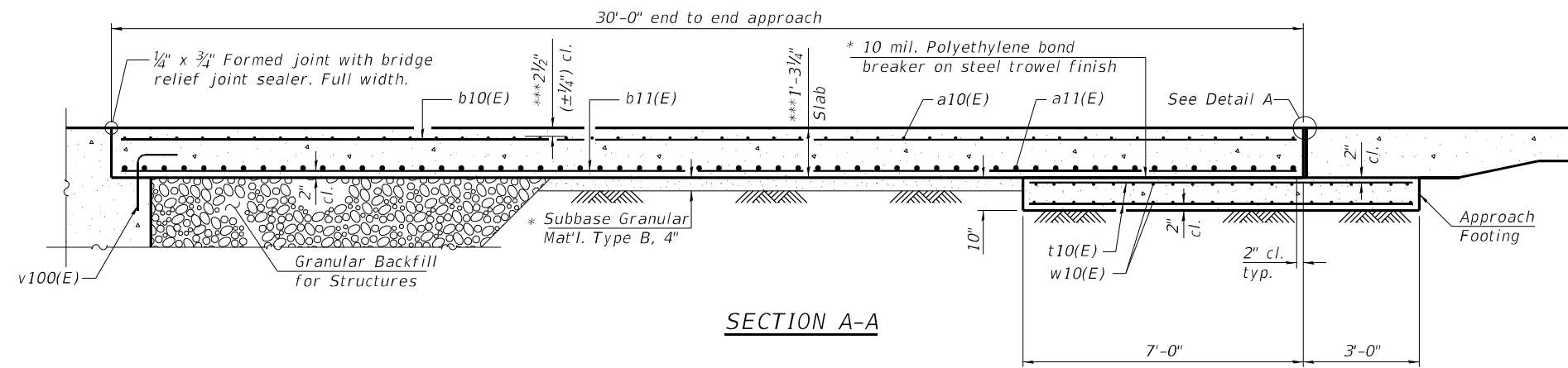
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	PLOT SCALE =	DRAWN - CMC	REVISED -			SHEET 30 OF 80 SHEETS	CONTRACT NO. 66K66		ILLINOIS FED. AID PROJECT	
PLOT DATE = 2/12/2024		CHECKED - ACB	REVISED -							

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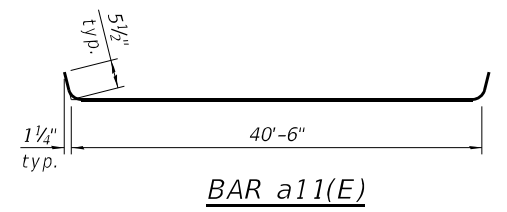


INSIDE ELEVATION OF PARAPET AND CURB

Notes:
 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 (Q_{max}) = 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 80.
 See sheets 44 and 47 of 80 for hatched block details.

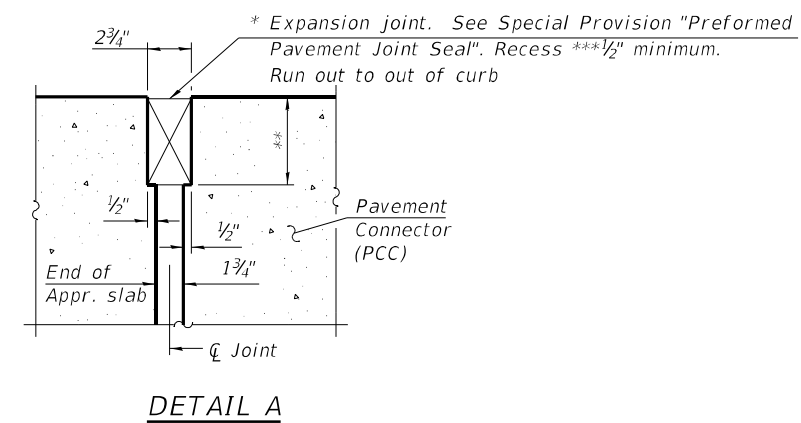


SECTION A-A

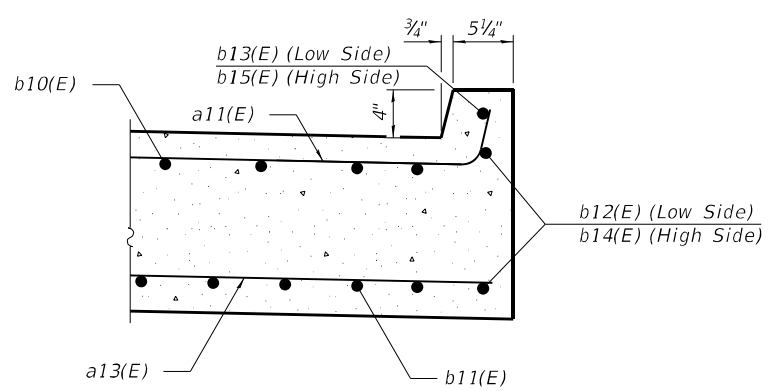


TWO APPROACHES
 BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a10(E)	56	#5	39'-7"	—
a11(E)	36	#5	41'-5"	—
a12(E)	74	#8	39'-7"	—
a13(E)	46	#8	40'-9"	—
b10(E)	120	#5	29'-8"	—
b11(E)	192	#9	29'-8"	—
b12(E)	4	#5	11'-2"	—
b13(E)	2	#4	11'-2"	—
b14(E)	4	#5	9'-2"	—
b15(E)	2	#4	9'-2"	—
t10(E)	168	#4	9'-8"	—
w10(E)	80	#5	40'-9"	—
Concrete Superstructure (Approach Slab)			Cu. Yd.	114.6
Concrete Structures			Cu. Yd.	25.4
Reinforcement Bars, Epoxy Coated			Pound	44,360



DETAIL A



SECTION B-B

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

BASA-CIP-3944CS-0 2-1-2023

(Sheet 2 of 2)

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EFK•Moen
 Civil Engineering Design

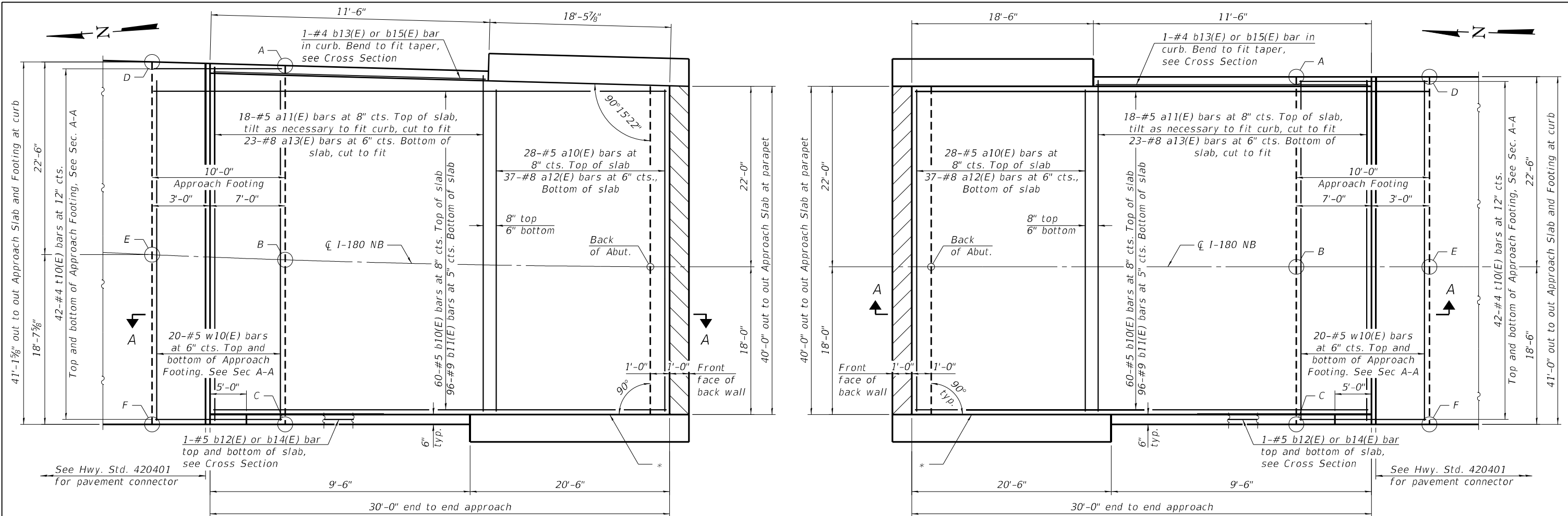
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PLOT DATE = 2/12/2024	DRAWN - CMC	REVISIONS -
	CHECKED - ACB	REVISIONS -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

BRIDGE APPROACH SLAB DETAILS
 STRUCTURE NO. 006-0193 (SB)

SHEET 31 OF 80 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
180	(06-2B-1)ES	BUREAU	327	171
CONTRACT NO. 66K66				
ILLINOIS FED. AID PROJECT				



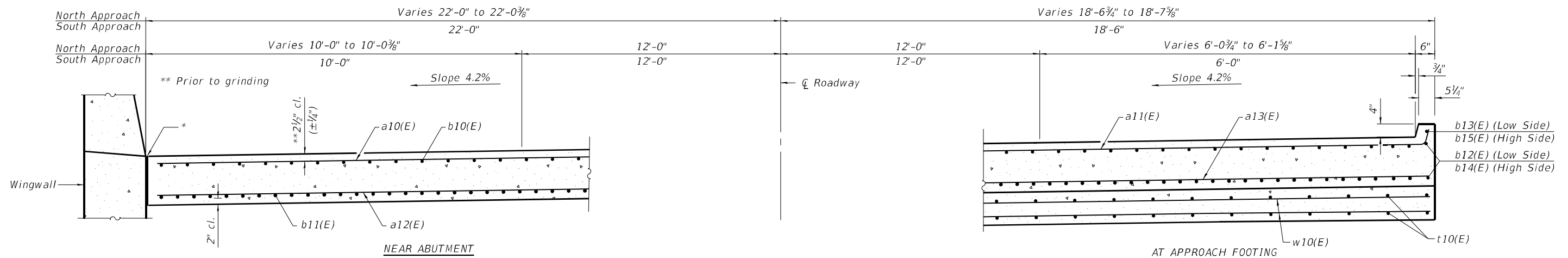
PLAN
(North approach)

TOP AND BOTTOM ELEVATIONS
FOR APPROACH FOOTING

PLAN
(South approach)

North Approach			South Approach		
Point/Location	Top	Bottom	Point/Location	Top	Bottom
A	500.10	499.27	A	512.70	511.86
B	501.05	500.22	B	513.64	512.81
C	501.84	501.00	C	514.42	513.58
D	499.84	499.00	D	512.95	512.12
E	500.79	499.95	E	513.90	513.07
F	501.57	500.74	F	514.68	513.85

* 1/2" Preformed Expansion Joint Filler according to Article 1051.09 of the Standard Specifications; full depth of slab, full length of parapet. Typ. each parapet.

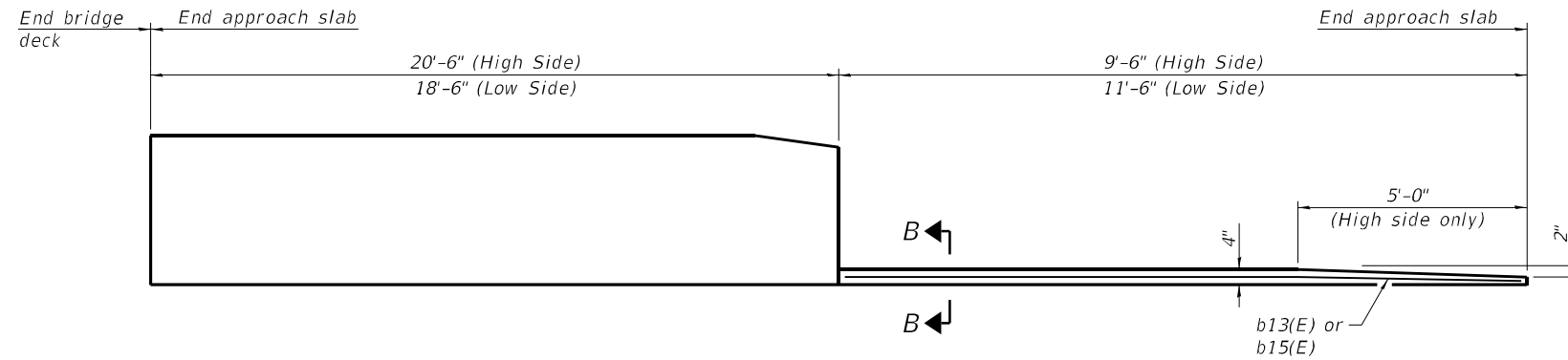


CROSS SECTION
(Looking South)

(Sheet 1 of 2)

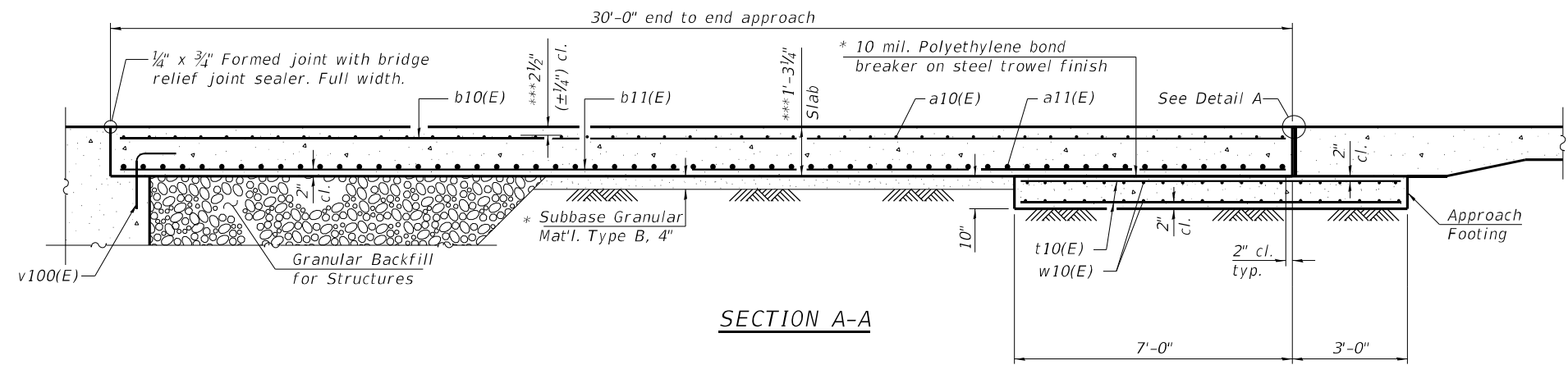
BASA-CIP-3944CS-0 2-1-2023

EFK Moen Civil Engineering Design	USER NAME = ABenz	DESIGNED - CMC	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	BRIDGE APPROACH SLAB DETAILS STRUCTURE 006-0194 (NB)	F.A.I. RTE. = 180	SECTION = (06-2B-1)ES	COUNTY = BUREAU	TOTAL SHEETS = 327	SHEET NO. = 172
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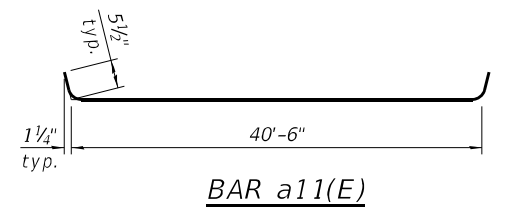


INSIDE ELEVATION OF PARAPET AND CURB

Notes:
 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 (Q_{max}) = 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 80.
 See sheets 50 and 53 of 80 for hatched block details.

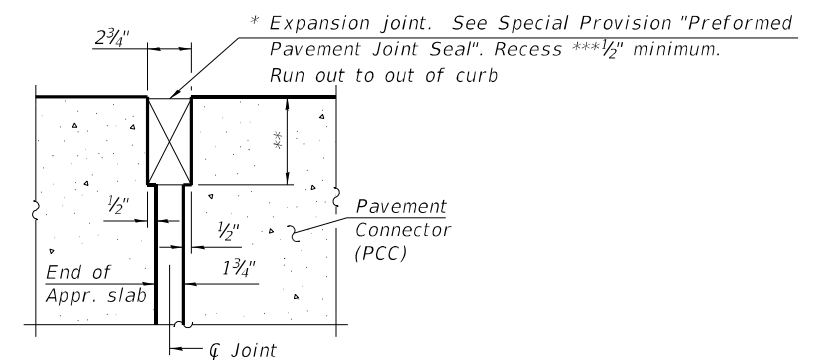


SECTION A-A

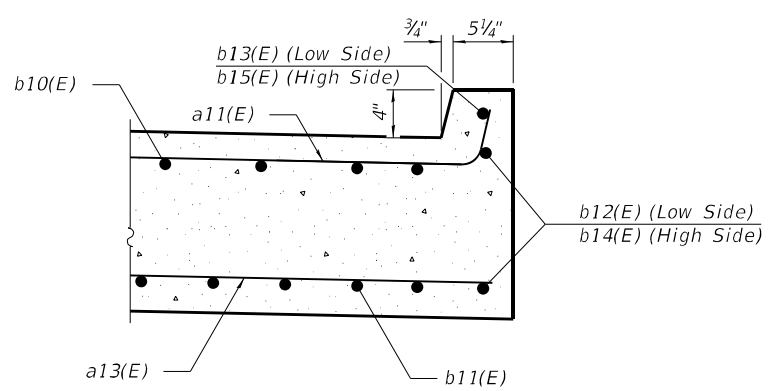


TWO APPROACHES BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a10(E)	56	#5	39'-7"	—
a11(E)	36	#5	41'-5"	—
a12(E)	74	#8	39'-7"	—
a13(E)	46	#8	40'-9"	—
b10(E)	120	#5	29'-8"	—
b11(E)	192	#9	29'-8"	—
b12(E)	4	#5	11'-2"	—
b13(E)	2	#4	11'-2"	—
b14(E)	4	#5	9'-2"	—
b15(E)	2	#4	9'-2"	—
t10(E)	168	#4	9'-8"	—
w10(E)	80	#5	40'-9"	—
Concrete Superstructure (Approach Slab)			Cu. Yd.	114.6
Concrete Structures			Cu. Yd.	25.4
Reinforcement Bars, Epoxy Coated			Pound	44,360



DETAIL A



SECTION B-B

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

BASA-CIP-3944CS-0 2-1-2023

(Sheet 2 of 2)

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EFK•Moen
Civil Engineering Design

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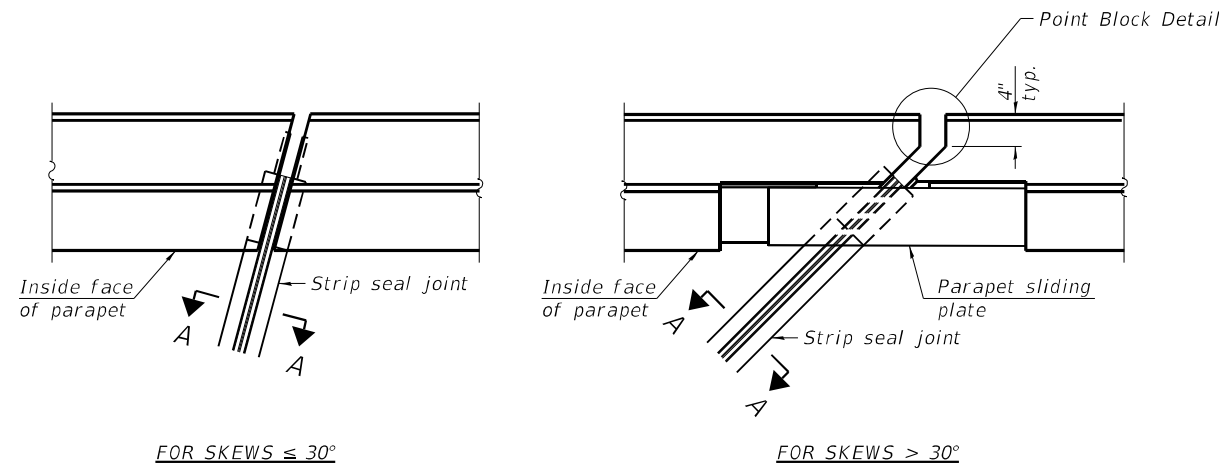
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BRIDGE APPROACH SLAB DETAILS
STRUCTURE 006-0194 (NB)

SHEET 33 OF 80 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
180	(06-2B-1)ES	BUREAU	327	173
CONTRACT NO. 66K66				
ILLINOIS FED. AID PROJECT				

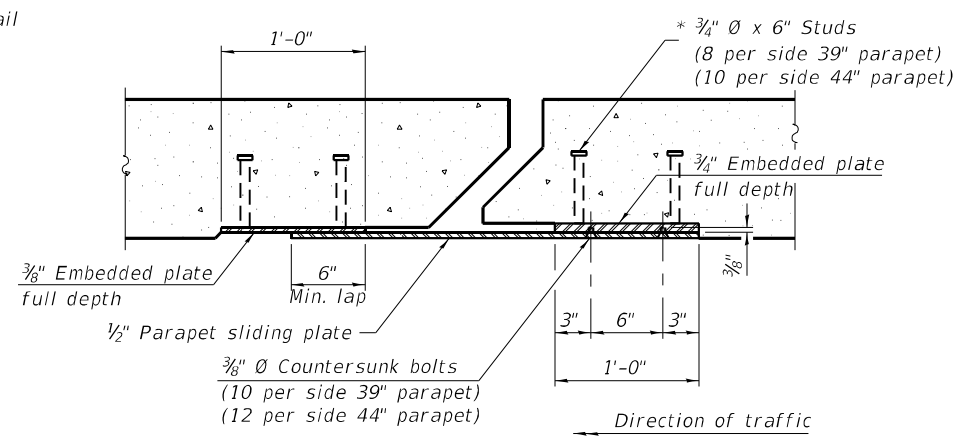
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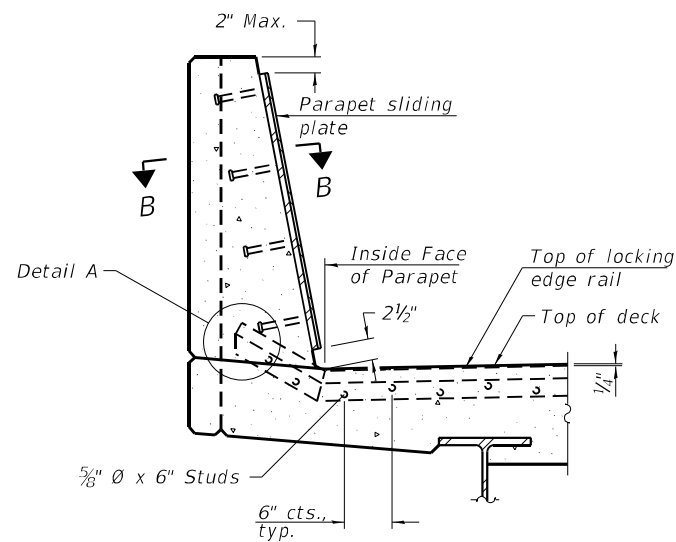
FOR SKEWS $\leq 30^\circ$

FOR SKEWS $> 30^\circ$

PLAN AT PARAPET

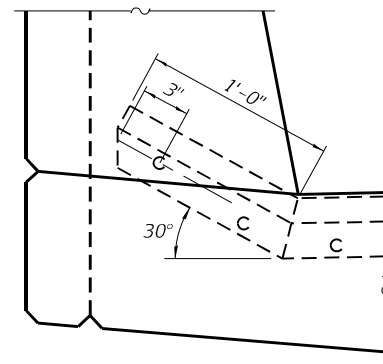


SECTION B-B

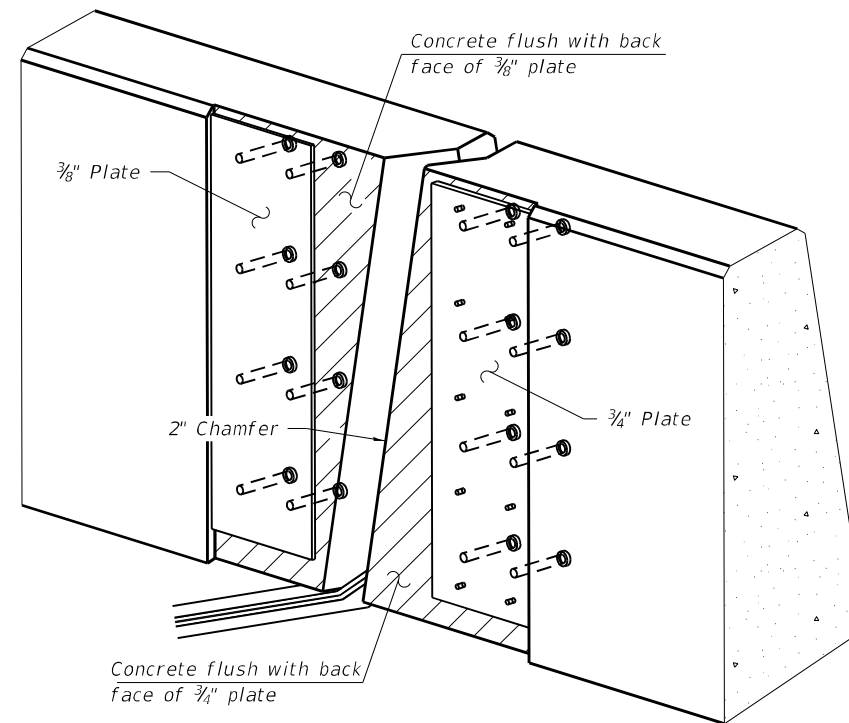


SECTION AT PARAPET

(Skews $> 30^\circ$ shown. Skews $\leq 30^\circ$ similar except as shown in plan view.)

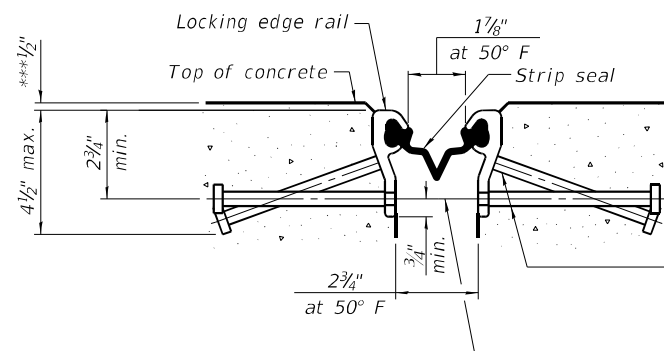


DETAIL A



TRIMETRIC VIEW

(Showing embedded plates only)



SHOWING ROLLED RAIL JOINT

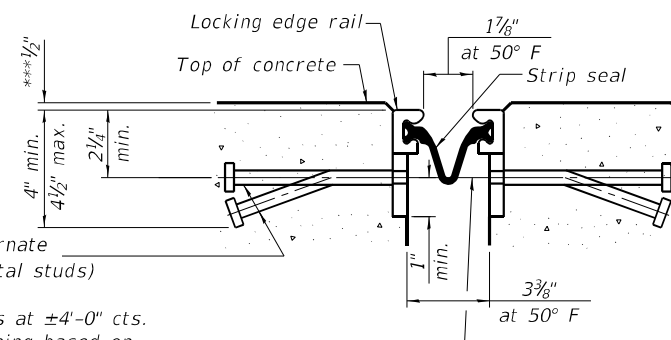
* $3/8$ " ϕ x 6" studs @ 6" cts. (alternate angled/bent studs with horizontal studs)

$3/8$ " ϕ threaded rods in $1/16$ " ϕ holes at ± 4 "-0" cts. for holding the proper joint opening based on the temperature during the deck pour. Place to miss studs. All rods shall be burned, or sawed off flush with the plates after concrete is set.

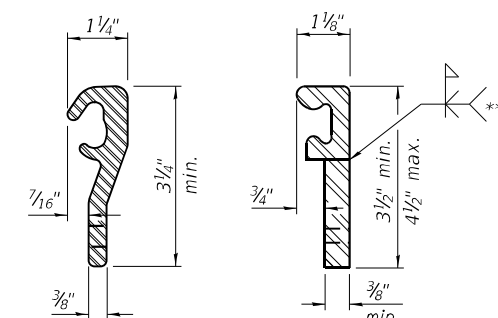
SECTION A-A

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

*** Prior to grinding



SHOWING WELDED RAIL JOINT

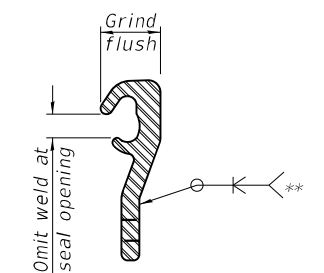


ROLLED (EXTRUDED) RAIL

WELDED RAIL

LOCKING EDGE RAILS

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



LOCKING EDGE RAIL SPLICE

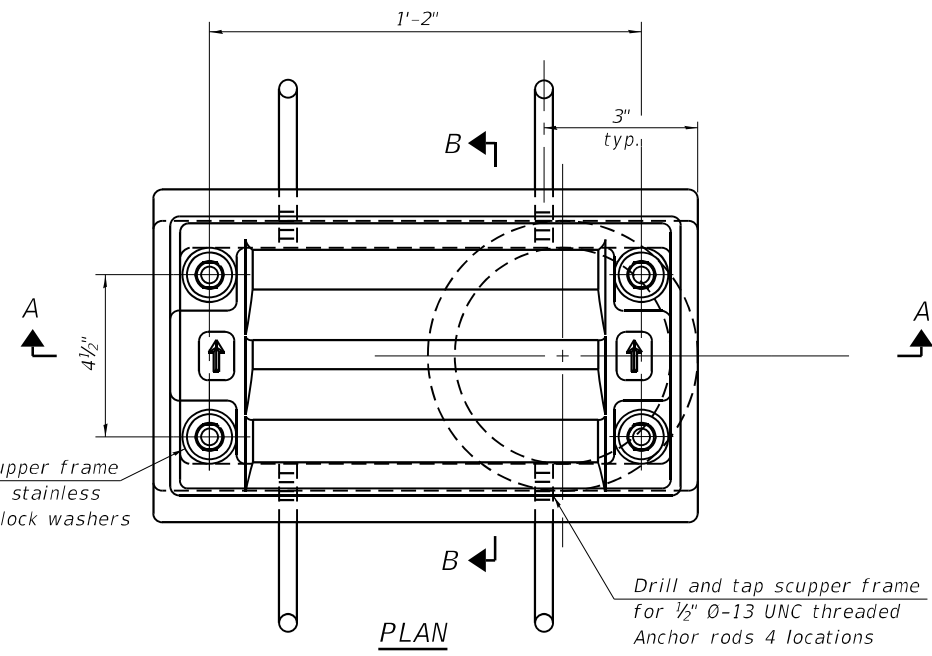
The inside of the locking edge rail groove shall be free of weld residue. Rolled rail shown, welded rail similar.

BILL OF MATERIAL

Item	Unit	Total
Preformed Joint Strip Seal	Foot	168

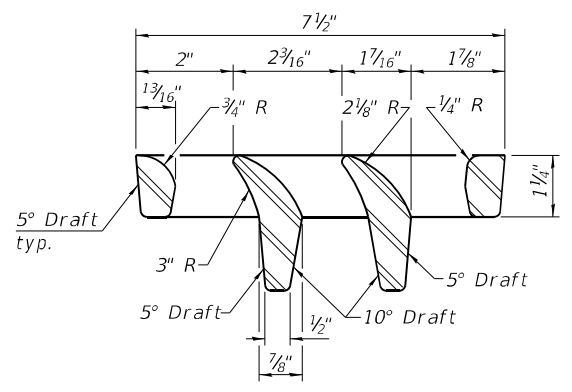
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Drill and tap scupper frame for 1/2" Ø-13 UNC stainless steel bolts with lock washers 4 locations

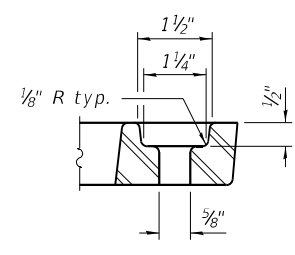


PLAN

Drill and tap scupper frame for 1/2" Ø-13 UNC threaded Anchor rods 4 locations

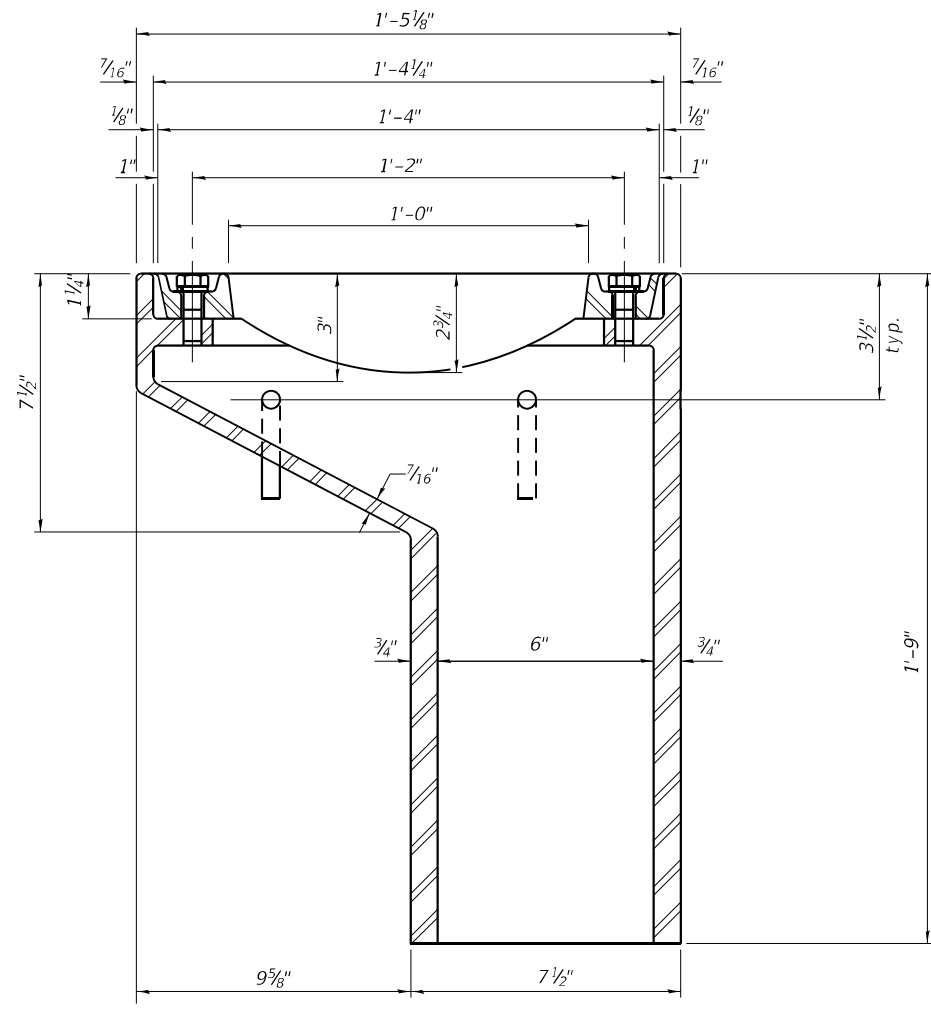


VANE GRATE DETAIL



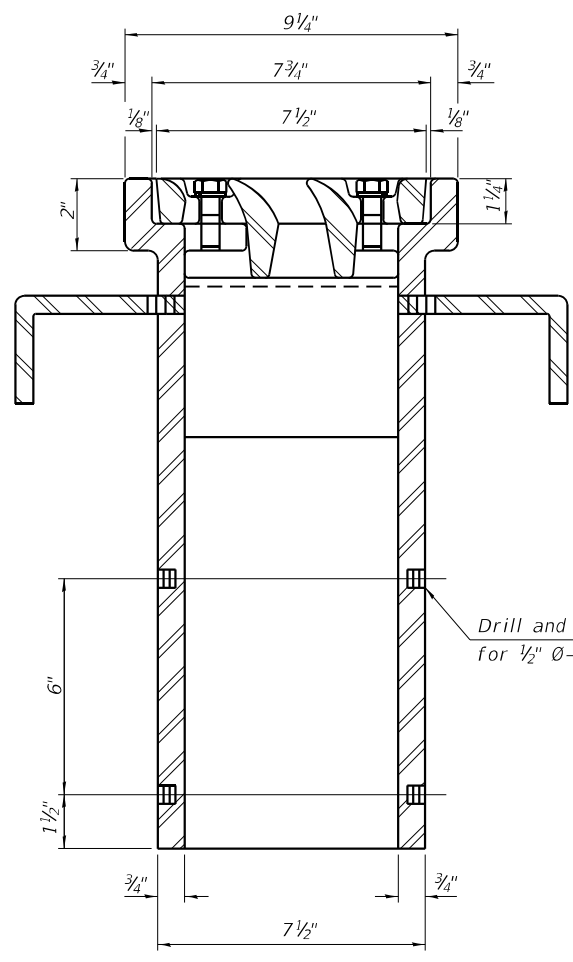
GRATE BOLT HOLE DETAIL

Notes:
 All cast iron parts shall be gray iron conforming to the requirements of AASHTO M105, Class 35B and AASHTO M306.
 Bolts, anchor rods, nuts and washers shall be according to ASTM A307 and shall be galvanized according to AASHTO M232. As an alternate stainless steel may be used.
 Stainless steel hardware shall be according to Article 1006.29(d) of the Standard Specifications.
 Structural steel weldments of equal sections and of the same configuration may be substituted for the cast iron scupper frames and downspouts; however, the scupper grates shall remain cast iron. Fillet or full penetration welds shall be used for the weldments. Details shall be submitted to the Engineer for approval.
 Structural steel scupper frames and downspouts, when utilized, shall be galvanized according to AASHTO M111.
 As an alternate, fiberglass may be used for downspouts according to ASTM D2996 with a short-time rupture strength hoop tensile stress of 30,000 psi min. in lieu of the cast iron or structural steel.
 The Contractor shall take appropriate measures to assure that Protective Coat is not applied to the scupper.
 Cost of the grate, frame, downspout, anchor rods, nuts and washers including complete installation of the scupper shall be paid for at the contract unit price for Drainage Scuppers, DS-11.



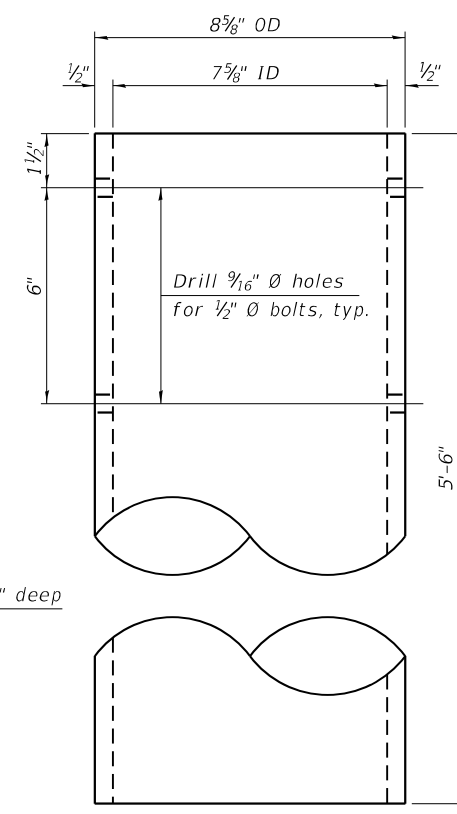
SECTION A-A

See sheet 23 & 28 of 80 for scupper location relative to parapet.

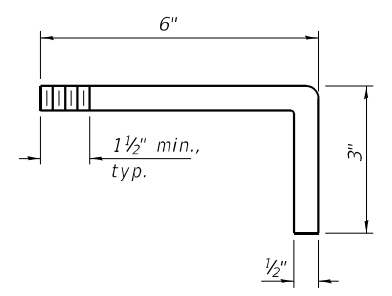


SECTION B-B

Drill and tap 4 holes 1/2" deep for 1/2" Ø-13 UNC bolts.



DOWNSPOUT



ANCHOR ROD DETAIL

BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Drainage Scuppers, DS-11	Each	6

DS-11

2-1-2023

EFK Moen
Civil Engineering Design

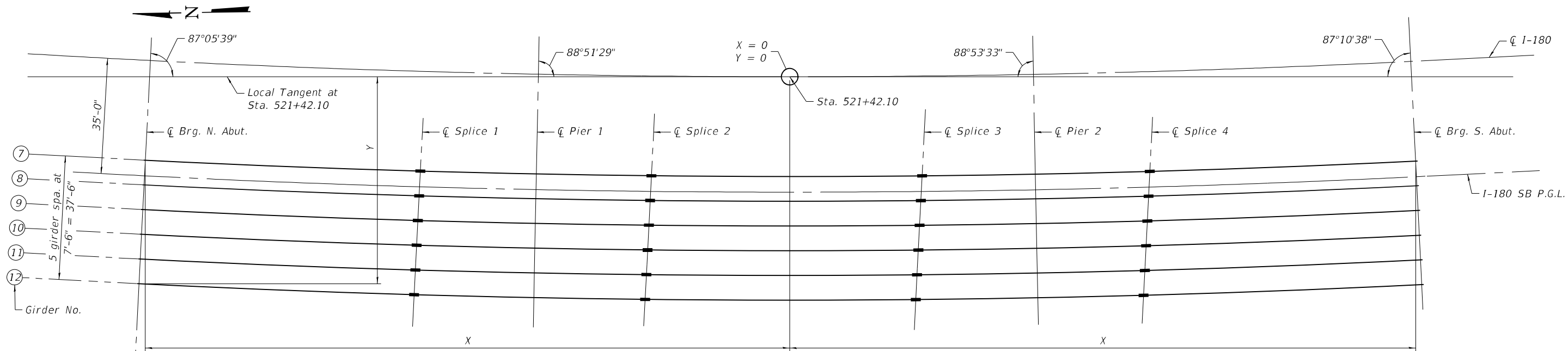
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PLOT SCALE =	CHECKED - ACB	REVISED -
PLOT DATE = 2/12/2024	DRAWN - CMC	REVISED -
	CHECKED - ACB	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DRAINAGE SCUPPER, DS-11
STRUCTURE NO. 006-0193 (SB) & 006-0194 (NB)

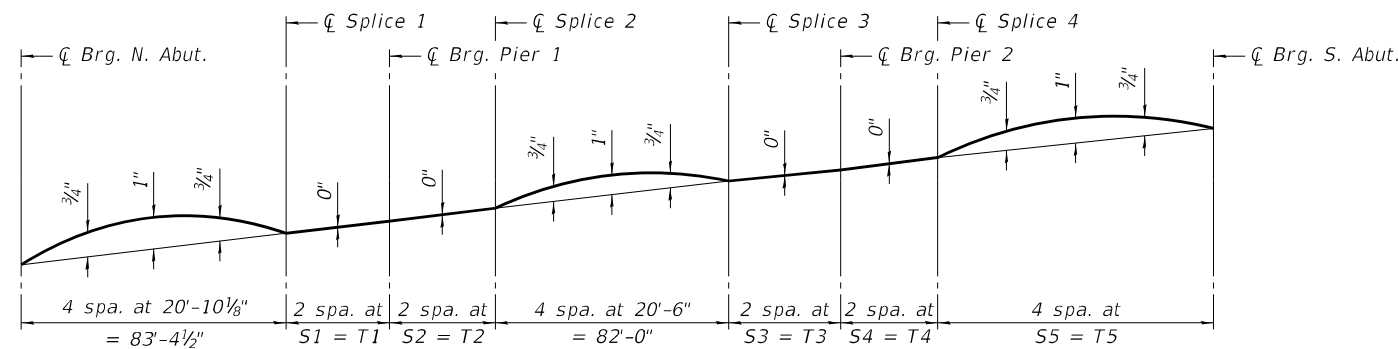
SHEET 35 OF 80 SHEETS

F.A.I. RTE. 180	SECTION (06-2B-1)ES	COUNTY BUREAU	TOTAL SHEETS 327	SHEET NO. 175
CONTRACT NO. 66K66				
ILLINOIS FED. AID PROJECT				



CURVED GIRDER LAYOUT

GIRDER LAYOUT DIMENSIONS																
Girder	C Brg. N. Abut.		C Splice 1		C Pier 1		C Splice 2		C Splice 3		C Pier 2		C Splice 4		C Brg. S. Abut.	
	X	Y	X	Y	X	Y	X	Y	X	Y	X	Y	X	Y	X	Y
7	195'-2 1/8"	25'-3 3/8"	111'-10 1/2"	28'-7 1/2"	76'-8 3/4"	29'-5 7/8"	41'-10 5/8"	30'-0 1/4"	40'-1 3/8"	30'-0 1/2"	74'-5 1/8"	29'-6 3/8"	109'-1 1/8"	28'-8 1/2"	189'-7 3/8"	25'-6 7/8"
8	195'-6 3/4"	32'-9 1/2"	112'-3"	36'-1 3/8"	76'-10 3/8"	36'-11 3/4"	42'-3 1/4"	37'-6 1/4"	39'-8 3/4"	37'-6 1/2"	74'-6 7/8"	37'-0 3/8"	108'-8 3/8"	36'-2 3/8"	189'-11 1/8"	33'-0 1/8"
9	195'-11 1/4"	40'-3 3/8"	112'-7 3/8"	43'-7 1/4"	77'-0 3/8"	44'-5 3/4"	42'-7 3/4"	45'-0 7/8"	39'-4 1/4"	45'-0 7/8"	74'-8 3/8"	44'-6 3/8"	108'-4"	43'-8 3/4"	190'-4 1/4"	40'-6 3/4"
10	196'-3 1/8"	47'-9 1/4"	113'-0 1/8"	51'-1 1/4"	77'-2 1/8"	51'-11 3/4"	43'-0 3/8"	52'-6 1/8"	38'-11 3/8"	52'-6 3/8"	74'-10 3/8"	52'-0 3/8"	107'-11 1/2"	51'-3"	190'-8 3/8"	48'-0 3/8"
11	196'-8 3/8"	55'-3 1/8"	113'-4 3/4"	58'-7 1/8"	77'-4"	59'-5 3/4"	43'-4 1/8"	60'-0 1/8"	38'-7 1/8"	60'-0 3/4"	75'-0"	59'-6 1/4"	107'-6 1/8"	58'-9 1/8"	191'-1 1/8"	55'-6 1/2"
12	197'-1"	62'-9"	113'-9 1/4"	66'-1"	77'-5 3/4"	66'-11 3/4"	43'-9 1/2"	67'-6"	38'-2 1/2"	67'-6 3/4"	75'-1 3/4"	67'-0 1/4"	107'-2 3/8"	66'-3 1/4"	191'-5 1/2"	63'-0 3/8"



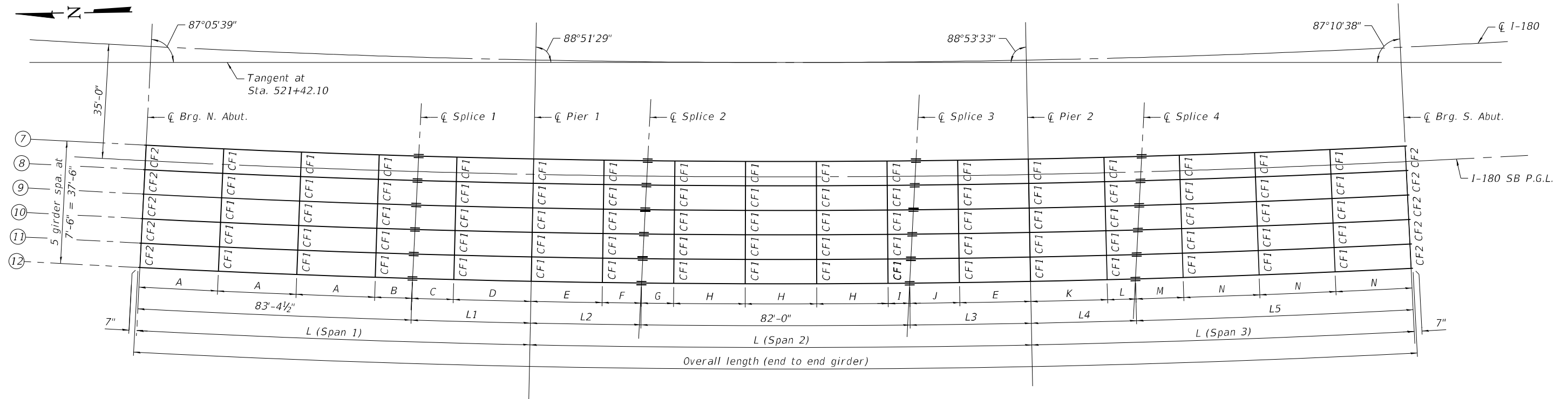
CAMBER DIAGRAM

*TOP OF WEB ELEVATIONS						
Location	Girder 7	Girder 8	Girder 9	Girder 10	Girder 11	Girder 12
C Brg at N. Abut	501.72	502.03	502.35	502.66	502.98	503.29
C Splice 1	504.08	504.39	504.70	505.01	505.32	505.63
C Brg at Pier 1	505.12	505.44	505.75	506.07	506.38	506.70
C Splice 2	506.16	506.46	506.77	507.08	507.38	507.69
C Splice 3	508.59	508.89	509.19	509.49	509.79	510.10
C Brg at Pier 2	509.59	509.90	510.22	510.53	510.85	511.16
C Splice 4	510.60	510.90	511.20	511.49	511.79	512.09
C Brg at S. Abut	513.06	513.38	513.69	514.01	514.32	514.64

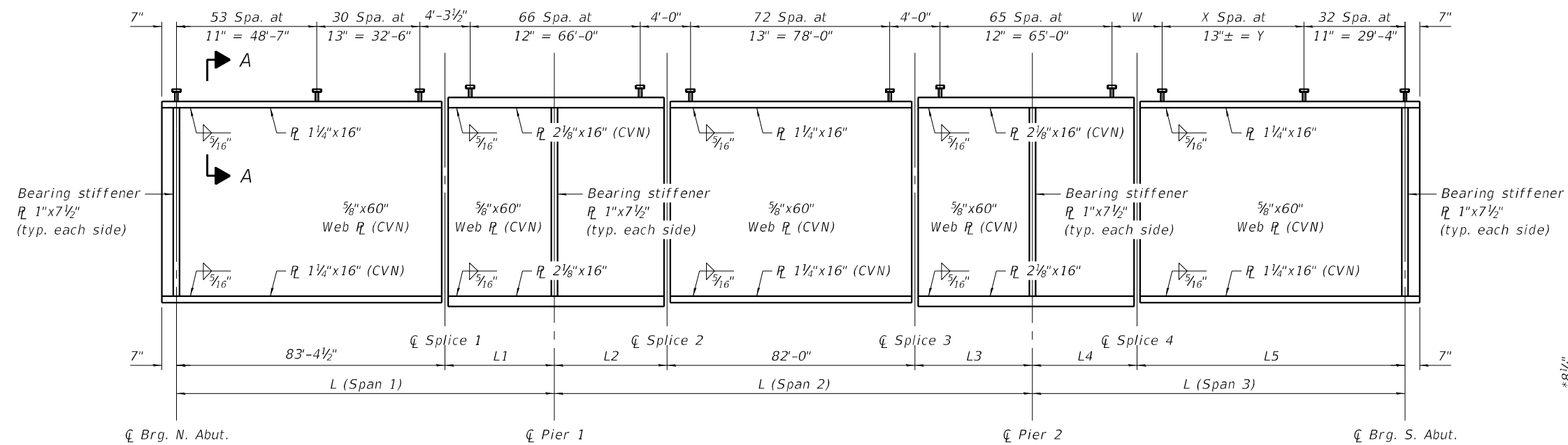
* For fabrication only

TABLE OF CAMBER DIMENSIONS										
Girder	S1	T1	S2	T2	S3	T3	S4	T4	S5	T5
7	17'-6 7/8"	35'-1 3/4"	17'-5 1/8"	34'-10 1/4"	17'-1 7/8"	34'-3 3/4"	17'-4 1/8"	34'-8 1/4"	20'-1 3/4"	80'-6 7/8"
8	17'-8 1/4"	35'-4 1/2"	17'-3 3/4"	34'-7 1/2"	17'-5"	34'-10 1/8"	17'-1"	34'-1 1/2"	20'-4"	81'-3 7/8"
9	17'-9 3/8"	35'-7 1/4"	17'-2 3/8"	34'-4 3/4"	17'-8 1/8"	35'-4 3/8"	16'-9 7/8"	33'-7 5/8"	20'-6 1/4"	82'-0 7/8"
10	17'-11"	35'-10 1/8"	17'-1"	34'-1 1/8"	17'-11 3/8"	35'-10 3/8"	16'-6 3/8"	33'-1 3/8"	20'-8 1/2"	82'-9 7/8"
11	18'-0 3/8"	36'-0 1/8"	16'-11 3/8"	33'-11 1/8"	18'-2 1/2"	36'-5"	16'-3 1/2"	32'-7"	20'-10 3/4"	83'-6 1/8"
12	18'-1 3/4"	36'-3 3/8"	16'-10 1/4"	33'-8 3/8"	18'-5 5/8"	36'-11 1/4"	16'-0 3/8"	32'-0 3/4"	21'-1"	84'-3 7/8"

MODEL: Default
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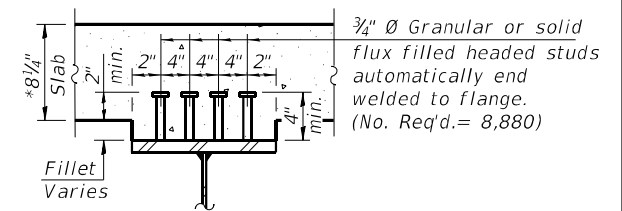


STEEL FRAMING PLAN



GIRDER ELEVATION

"CVN" shall conform to the Charpy-VNotch Impact Energy Requirement, Zone 2.



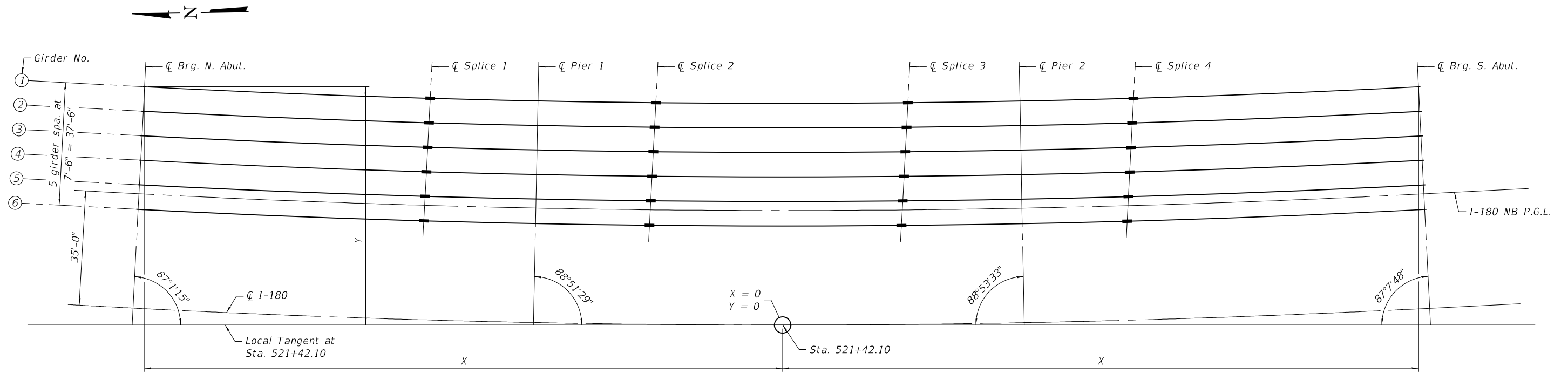
SECTION A-A

* Prior to grinding

GIRDER VARIABLES MEASURED ALONG \bar{C} GIRDER																											
Girder	Radius	Overall Length	L (Span 1)	L (Span 2)	L (Span 3)	L1	L2	L3	L4	L5	A	B	C	D	E	F	G	H	I	J	K	L	M	N	W	X	Y
7	3850'-3"	386'-1 1/2"	118'-6 1/4"	151'-2"	115'-3 1/8"	35'-1 3/4"	34'-10 1/4"	34'-3 1/8"	34'-8 1/8"	80'-7"	23'-9 1/4"	12'-0 7/8"	11'-8 3/8"	23'-5 3/8"	21'-6 3/8"	13'-3 1/8"	8'-3 3/8"	21'-7 1/2"	8'-10"	12'-9 1/2"	23'-0 1/4"	11'-7 7/8"	11'-4 1/2"	23'-0 1/4"	4'-6"	45	48'-9"
8	3857'-9"	386'-10 1/2"	118'-9 1/8"	151'-5 1/2"	115'-5 5/8"	35'-4 3/8"	34'-7 3/8"	34'-1 1/8"	34'-1 1/8"	81'-4"	23'-9 3/4"	11'-11 1/8"	11'-10 3/8"	23'-6"	21'-6 1/8"	13'-0 3/8"	8'-7 3/8"	21'-8"	8'-4 3/8"	13'-3 1/4"	23'-0 1/8"	11'-1"	11'-11 3/4"	23'-0 1/8"	4'-2"	46	49'-10"
9	3865'-3"	387'-7 1/2"	118'-11 1/8"	151'-9 1/8"	115'-8 1/2"	35'-7 3/8"	34'-4 3/8"	35'-4 3/8"	33'-7 3/8"	82'-1"	23'-10 3/8"	11'-9 1/2"	12'-0 1/8"	23'-6 1/2"	21'-7 3/8"	12'-9 3/8"	8'-11 1/8"	21'-8 1/2"	7'-11 3/8"	13'-9 1/8"	23'-1 3/8"	10'-6 1/8"	12'-7 1/4"	23'-1 3/8"	4'-2"	47	50'-7"
10	3872'-9"	388'-4 1/2"	119'-2 3/8"	152'-0 3/8"	115'-11 1/4"	35'-10 1/8"	34'-1 1/8"	35'-10 3/4"	33'-1 1/4"	82'-10"	23'-10 1/8"	11'-7 1/8"	12'-3 1/8"	23'-7"	21'-7 1/8"	12'-6"	9'-3"	21'-9"	7'-6 1/8"	14'-2 1/8"	23'-1 1/8"	9'-11 3/8"	13'-2 3/8"	23'-1 1/8"	4'-7"	47	50'-11"
11	3880'-3"	389'-1 1/2"	119'-5 3/8"	152'-4 1/8"	116'-1 1/8"	36'-0 1/8"	33'-11 1/8"	36'-5"	32'-7"	83'-7"	23'-11 1/2"	11'-6 1/8"	12'-5 1/4"	23'-7 3/8"	21'-8 3/8"	12'-2 3/4"	9'-6 3/4"	21'-9 1/2"	7'-0 3/4"	14'-8 3/8"	23'-2 1/2"	9'-4 1/2"	13'-10"	23'-2 1/2"	4'-3"	48	52'-0"
12	3887'-9"	389'-10 1/2"	119'-8 1/8"	152'-7 1/4"	116'-4 3/8"	36'-3 3/8"	33'-8 3/8"	36'-11 3/8"	32'-0 5/8"	84'-4"	24'-0"	11'-4 1/2"	12'-7 1/2"	23'-8 1/8"	21'-8 1/8"	11'-11 1/2"	9'-10 1/2"	21'-10"	6'-7 1/2"	15'-2 1/2"	23'-4 3/8"	8'-8"	14'-7"	23'-3"	4'-1 3/4"	49	52'-10 1/8"

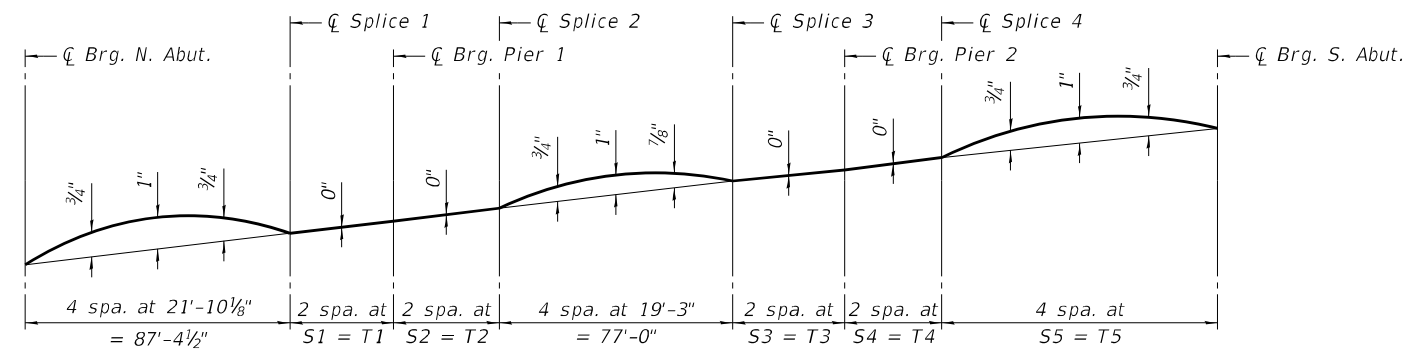
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EFK Moen Civil Engineering Design	USER NAME = ABenz	DESIGNED - CMC	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	STEEL FRAMING PLAN STRUCTURE NO. 006-0193 (SB)	F.A.I. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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	PLOT DATE = 2/12/2024	DRAWN - CMC	REVISED -			CONTRACT NO. 66K66				
		CHECKED - ACB	REVISED -			ILLINOIS FED. AID PROJECT				



CURVED GIRDER LAYOUT

GIRDER LAYOUT DIMENSIONS																	
Girder	C Brg. N. Abut.		C Splice 1		C Pier 1		C Splice 2		C Splice 3		C Pier 2		C Splice 4		C Brg. S. Abut.		
	X	Y	X	Y	X	Y	X	Y	X	Y	X	Y	X	Y	X	Y	
1	195'-0 ¹ / ₄ "	72'-9 ¹ / ₈ "	107'-8 ³ / ₈ "	69'-3 ¹ / ₂ "	74'-9 ³ / ₈ "	68'-6"	38'-8 ¹ / ₈ "	67'-11 ³ / ₈ "	38'-3 ¹ / ₈ "	67'-11 ³ / ₈ "	72'-6 ³ / ₈ "	68'-5 ³ / ₈ "	107'-3"	69'-3 ³ / ₈ "	194'-4 ¹ / ₂ "	72'-9 ¹ / ₂ "	
2	195'-5"	65'-4"	108'-1 ³ / ₈ "	61'-9 ³ / ₈ "	74'-11 ¹ / ₈ "	61'-0"	39'-1 ¹ / ₂ "	60'-5 ¹ / ₂ "	37'-10 ¹ / ₂ "	60'-5 ¹ / ₄ "	72'-8 ¹ / ₈ "	60'-11 ³ / ₈ "	106'-10 ³ / ₈ "	61'-9 ¹ / ₄ "	194'-9"	65'-3 ³ / ₈ "	
3	195'-9 ³ / ₈ "	57'-10 ¹ / ₈ "	108'-6"	54'-3 ³ / ₄ "	75'-1"	53'-6"	39'-6 ¹ / ₈ "	52'-11 ¹ / ₂ "	37'-5 ³ / ₄ "	52'-11 ¹ / ₄ "	72'-9 ¹ / ₈ "	53'-5 ¹ / ₂ "	106'-5 ³ / ₈ "	54'-3"	195'-1 ¹ / ₂ "	57'-9 ³ / ₈ "	
4	196'-2 ¹ / ₄ "	50'-4 ¹ / ₄ "	108'-10 ³ / ₈ "	46'-9 ¹ / ₈ "	75'-2 ³ / ₄ "	46'-0"	39'-10 ¹ / ₈ "	45'-5 ¹ / ₂ "	37'-1 ¹ / ₈ "	45'-5 ¹ / ₄ "	72'-11 ³ / ₈ "	45'-11 ¹ / ₂ "	106'-1"	46'-8 ¹ / ₈ "	195'-6"	50'-3 ³ / ₄ "	
5	196'-7"	42'-10 ³ / ₈ "	109'-3 ³ / ₈ "	39'-4"	75'-4 ¹ / ₂ "	38'-6"	40'-3 ¹ / ₂ "	37'-11 ³ / ₈ "	36'-8 ¹ / ₂ "	37'-11 ¹ / ₈ "	73'-1 ³ / ₈ "	38'-5 ¹ / ₂ "	105'-8 ¹ / ₄ "	39'-2 ³ / ₄ "	195'-10 ¹ / ₂ "	42'-9 ¹ / ₈ "	
6	196'-11 ³ / ₈ "	35'-4 ¹ / ₂ "	109'-8"	31'-10"	75'-6 ³ / ₈ "	31'-0"	40'-8 ¹ / ₄ "	30'-5 ³ / ₈ "	36'-3 ³ / ₄ "	30'-5 ¹ / ₈ "	73'-3 ¹ / ₈ "	30'-11 ¹ / ₂ "	105'-3 ³ / ₈ "	31'-8 ¹ / ₂ "	196'-3"	35'-4"	



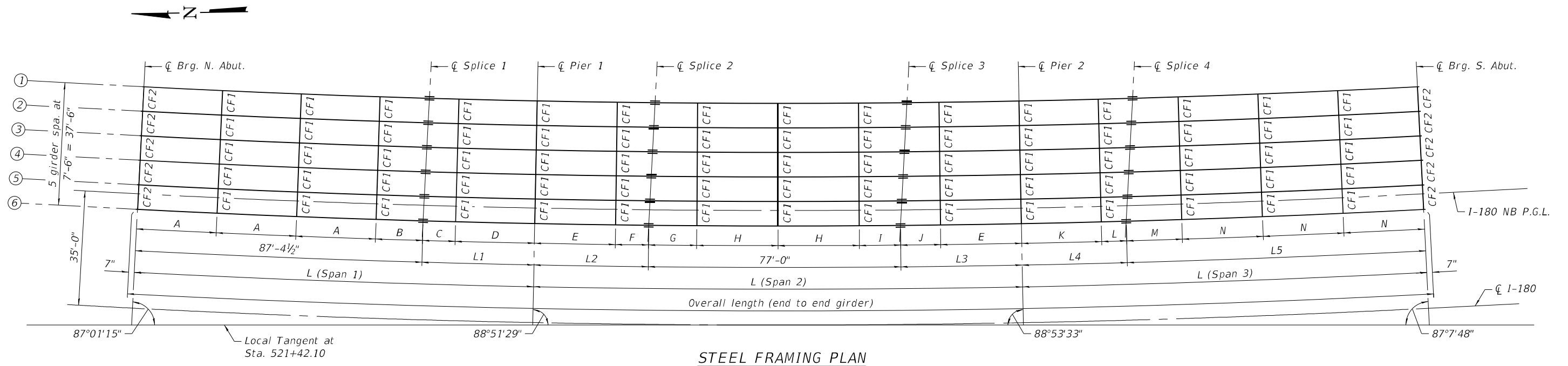
CAMBER DIAGRAM

*TOP OF WEB ELEVATIONS						
Location	Girder 1	Girder 2	Girder 3	Girder 4	Girder 5	Girder 6
C Brg at N. Abut	501.16	501.48	501.79	502.11	502.42	502.74
C Splice 1	503.70	504.01	504.32	504.63	504.94	505.25
C Brg at Pier 1	504.69	505.01	505.32	505.64	505.95	506.27
C Splice 2	505.76	506.07	506.37	506.68	506.98	507.29
C Splice 3	508.00	508.30	508.60	508.90	509.20	509.51
C Brg at Pier 2	508.97	509.29	509.60	509.92	510.23	510.55
C Splice 4	509.94	510.24	510.61	510.91	511.21	511.51
C Brg at S. Abut	512.40	512.71	513.03	513.34	513.66	513.97

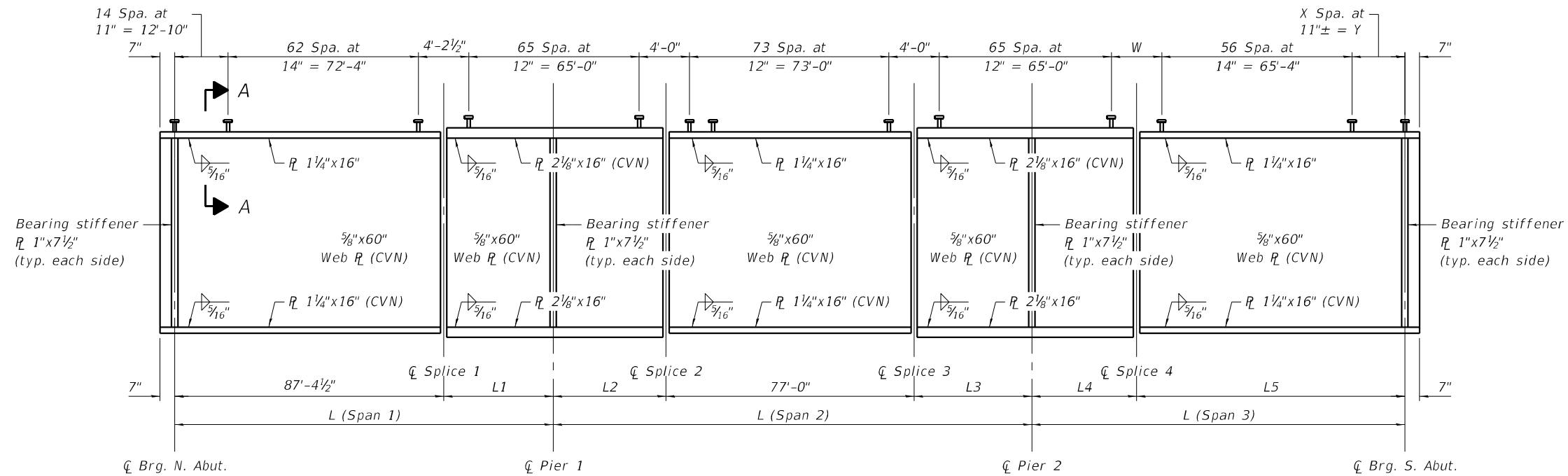
* For fabrication only

TABLE OF CAMBER DIMENSIONS										
Girder	S1	T1	S2	T2	S3	T3	S4	T4	S5	T5
1	16'-5 ³ / ₄ "	32'-11 ³ / ₈ "	18'-0 ¹ / ₄ "	36'-0 ³ / ₈ "	17'-1 ¹ / ₈ "	34'-3 ¹ / ₄ "	17'-4 ³ / ₈ "	34'-8 ³ / ₄ "	21'-9 ¹ / ₄ "	87'-2 ³ / ₈ "
2	16'-7 ¹ / ₈ "	33'-2 ¹ / ₄ "	17'-10 ¹ / ₈ "	35'-9 ³ / ₄ "	17'-4 ¹ / ₈ "	34'-9 ³ / ₈ "	17'-1 ¹ / ₈ "	34'-2 ³ / ₈ "	21'-11 ³ / ₈ "	87'-11 ¹ / ₂ "
3	16'-8 ³ / ₈ "	33'-5 ¹ / ₈ "	17'-9 ³ / ₈ "	35'-6 ¹ / ₈ "	17'-8"	35'-4 ¹ / ₈ "	16'-10"	33'-7 ¹ / ₈ "	22'-1 ¹ / ₈ "	88'-8 ³ / ₄ "
4	16'-10"	33'-8"	17'-8"	35'-4"	17'-11 ¹ / ₄ "	35'-10 ¹ / ₂ "	16'-6 ³ / ₄ "	33'-1 ¹ / ₂ "	22'-4 ¹ / ₄ "	89'-5 ¹ / ₈ "
5	16'-11 ¹ / ₂ "	33'-11"	17'-6 ¹ / ₂ "	35'-1"	18'-2 ¹ / ₂ "	36'-4 ¹ / ₈ "	16'-3 ¹ / ₂ "	32'-7 ¹ / ₈ "	22'-6 ³ / ₈ "	90'-3 ¹ / ₈ "
6	17'-0 ¹ / ₈ "	34'-1 ¹ / ₈ "	17'-5 ¹ / ₈ "	34'-10 ¹ / ₈ "	18'-5 ³ / ₈ "	36'-11 ³ / ₈ "	16'-0 ³ / ₈ "	32'-0 ⁵ / ₈ "	22'-8 ¹ / ₈ "	91'-0 ¹ / ₄ "

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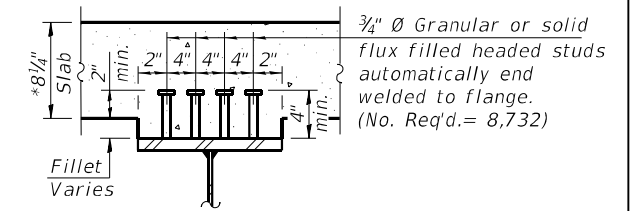


STEEL FRAMING PLAN



GIRDER ELEVATION

"CVN" shall conform to the Charpy-VNotch Impact Energy Requirement, Zone 2.



SECTION A-A

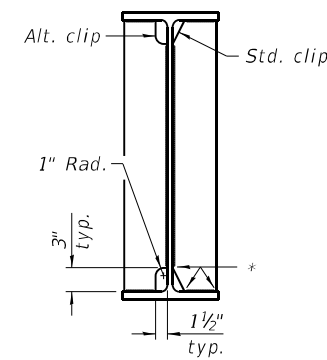
* Prior to grinding

GIRDER VARIABLES MEASURED ALONG ζ GIRDER

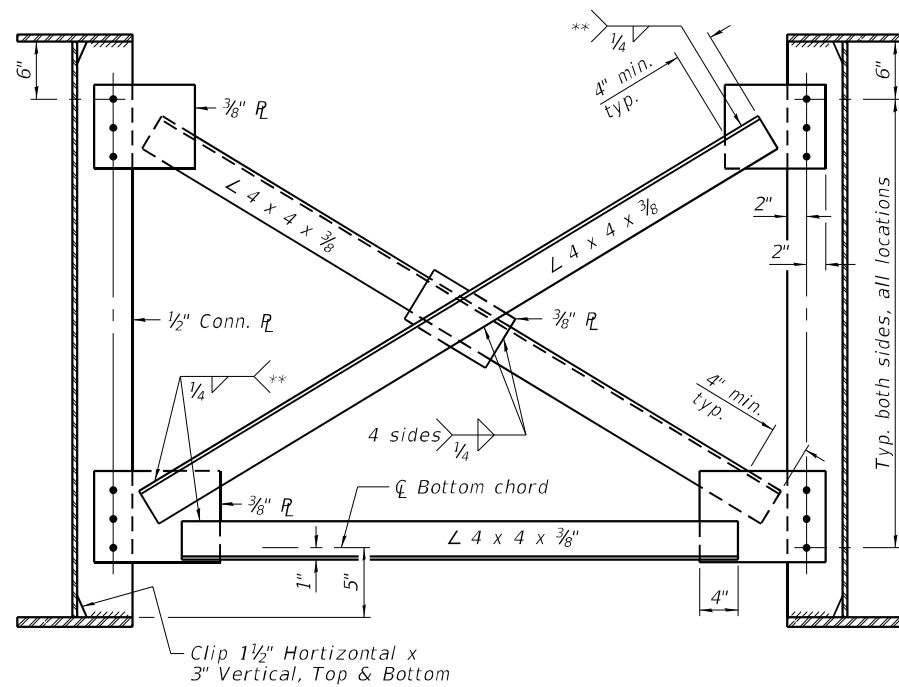
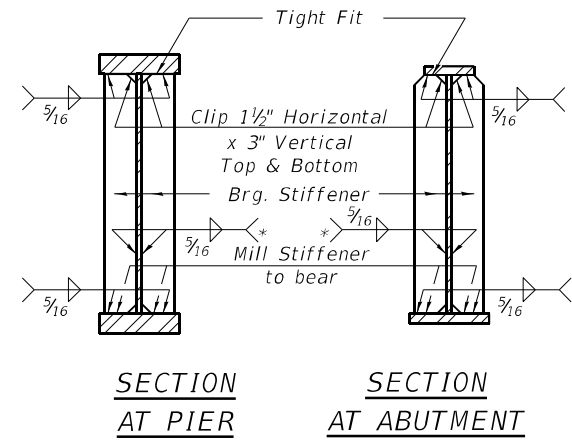
Girder	Radius	Overall Length	L (Span 1)	L (Span 2)	L (Span 3)	L1	L2	L3	L4	L5	A	B	C	D	E	F	G	H	I	J	K	L	M	N	W	X	Y
1	3752'-3"	390'-8 1/8"	120'-3 1/8"	147'-3 1/8"	121'-11 1/8"	32'-11 3/8"	36'-0 3/8"	34'-3 1/4"	34'-8 3/4"	87'-2 3/8"	24'-1 1/8"	15'-1 1/8"	9'-0"	23'-11 1/2"	24'-5 1/8"	11'-6 3/4"	13'-0 1/4"	24'-7"	14'-9 5/8"	9'-9 3/8"	24'-2 3/4"	10'-6"	13'-11 1/8"	24'-5 1/8"	3'-11 1/2"	22	19'-10 3/4"
2	3759'-9"	391'-6"	120'-6 3/4"	147'-7 3/8"	122'-1 1/8"	33'-2 1/4"	35'-9 3/4"	34'-9 3/8"	34'-2 3/8"	87'-11 1/2"	24'-1 3/4"	14'-11 3/8"	9'-2 1/4"	24'-0"	24'-6 3/8"	11'-3 1/4"	13'-4 3/8"	24'-7 3/8"	14'-4 3/8"	10'-3 1/4"	24'-3 1/4"	9'-11 1/8"	14'-6 1/2"	24'-5 3/8"	3'-11 1/2"	23	20'-8"
3	3767'-3"	392'-3 1/4"	120'-9 3/8"	147'-10 1/8"	122'-4 3/8"	33'-5 1/8"	35'-6 1/8"	35'-4 1/8"	33'-7 1/8"	88'-8 3/4"	24'-2 1/4"	14'-9 3/4"	9'-4 5/8"	24'-0 3/8"	24'-7"	10'-11 1/8"	13'-8 3/8"	24'-8 1/4"	13'-11 1/8"	10'-9 1/8"	24'-3 3/8"	9'-4 1/4"	15'-2"	24'-6 1/4"	4'-3 3/8"	23	21'-1"
4	3774'-9"	393'-0 3/8"	121'-0 1/2"	148'-2 1/2"	122'-7 3/8"	33'-8"	35'-4"	35'-10 1/2"	33'-1 1/2"	89'-5 1/8"	24'-2 1/8"	14'-8"	9'-6 1/8"	24'-1 1/8"	24'-7 3/8"	10'-8 3/8"	14'-0 1/2"	24'-8 1/8"	13'-5 1/8"	11'-2 1/8"	24'-4 1/8"	8'-9 3/8"	15'-9 3/8"	24'-6 1/8"	4'-1 1/8"	24	22'-0"
5	3782'-3"	393'-9 3/8"	121'-3 1/2"	148'-6"	122'-10 1/8"	33'-11"	35'-1"	36'-4 1/8"	32'-7 1/8"	90'-3 1/8"	24'-3 3/8"	14'-6 1/4"	9'-9 1/8"	24'-1 3/4"	24'-8 1/8"	10'-4 1/8"	14'-4 1/2"	24'-9 3/8"	13'-0 3/8"	11'-8 3/4"	24'-4 1/2"	8'-2 3/8"	16'-4 1/8"	24'-7 3/8"	4'-0 1/8"	25	22'-11"
6	3789'-9"	394'-6 3/4"	121'-6 3/8"	148'-9 1/2"	123'-0 1/8"	34'-1 1/8"	34'-10 1/8"	36'-11 3/8"	32'-0 3/8"	91'-0 1/4"	24'-4"	14'-4 1/2"	9'-11 1/2"	24'-2 3/8"	24'-8 3/4"	10'-1 3/8"	14'-8 5/8"	24'-10"	12'-7 3/8"	12'-2 3/8"	24'-4 1/8"	7'-7 3/4"	17'-0 1/4"	24'-8"	3'-11 1/2"	26	23'-8 3/8"

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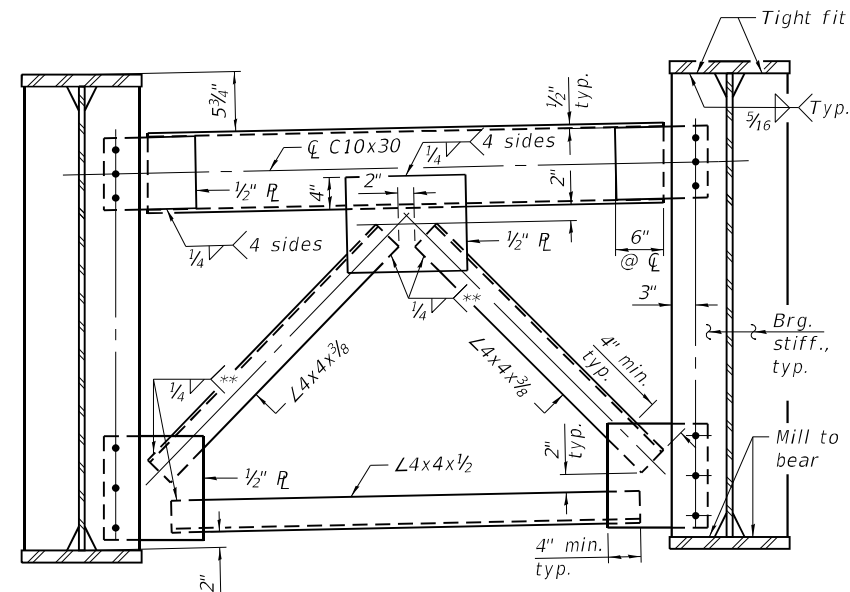


WELD LIMITS AND CLIP DETAILS
 * Stop welds 1/4" (±1/8") from edges as shown. Typical.

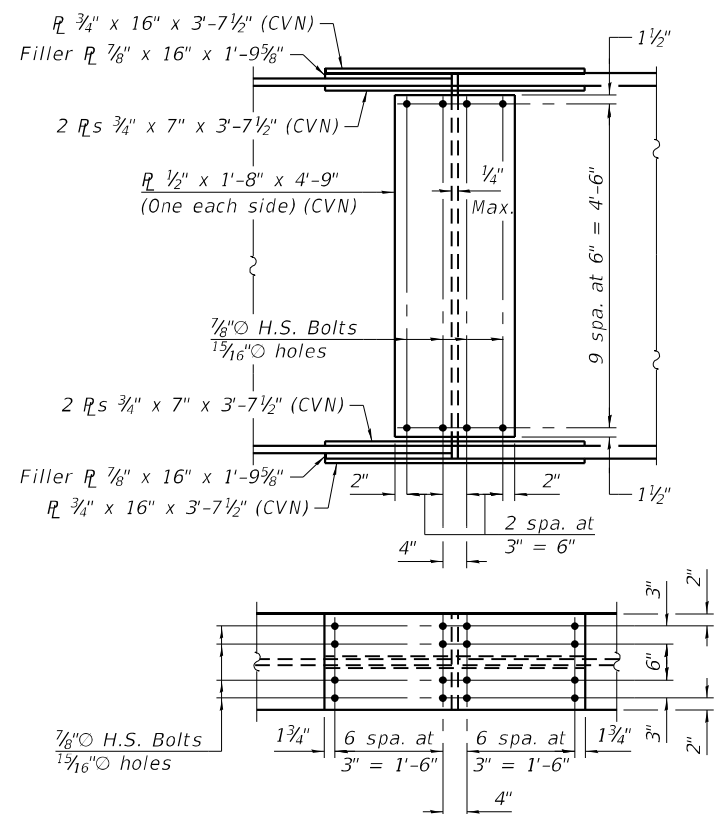


INTERIOR CROSS-FRAME, CF1
 (155 Required)

Notes:
 All bolts for cross frames shall be 3/4" Ø bolts with 1 1/16" Ø holes.
 Two hardened washers required for each set of oversized holes.



END CROSS-FRAME, CF2
 (20 Required)



FIELD SPICE DETAIL
 "CVN" shall conform to the Charpy-VNotch Impact Energy Requirement, Zone 2.

Note:
 All cross frames between girders shall be installed with erection pins and bolts in accordance with the erection plan approved by the Engineer. Individual cross frames at supports may be temporarily disconnected to install bearing anchor bolts.

USER NAME = ABenz	DESIGNED - CMC	REVISED -
PLOT SCALE =	CHECKED - ACB	REVISED -
PLOT DATE = 2/12/2024	DRAWN - CMC	REVISED -
	CHECKED - ACB	REVISED -

F.A.I. RTE. 180	SECTION (06-2B-1)ES	COUNTY BUREAU	TOTAL SHEETS 327	SHEET NO. 180
CONTRACT NO. 66K66				
ILLINOIS FED. AID PROJECT				

NORTHBOUND

SOUTHBOUND

INTERIOR GIRDER MOMENT TABLE						
	0.4 Sp. 1	Pier 1	0.5 Sp. 2	Pier 2	0.6 Sp. 3	
I_s	(in ⁴)	48,771	76,887	48,771	76,887	48,771
$I_c(n)$	(in ⁴)	105,630	146,845	105,630	146,845	105,630
$I_c(3n)$	(in ⁴)	78,937	111,238	78,937	111,238	78,937
$I_c(cr)$	(in ⁴)	—	86,740	—	86,740	—
S_s	(in ²)	1,560.7	2,393.4	1,560.7	2,393.4	1,560.7
$S_c(n)$	(in ²)	2,053.4	2,938.6	2,053.4	2,938.6	2,053.4
$S_c(3n)$	(in ²)	1,879.5	2,719.1	1,879.5	2,719.1	1,879.5
$S_c(cr)$	(in ²)	—	2,502.6	—	2,502.6	—
S_x	(in ²)	1,947.0	2,735.7	1,972.8	2,732.2	1,943.7
DC1	(k/')	1.078	1.188	1.078	1.188	1.078
M_{DC1}	(k)	962.3	2079.2	730.7	2114.1	992.1
DC2	(k/')	0.175	0.175	0.175	0.175	0.175
M_{DC2}	(k)	167.3	354.0	125.3	354.0	172.8
DW	(k/')	0.333	0.333	0.333	0.333	0.333
M_{DW}	(k)	318.7	674.2	238.6	674.2	329.1
LLDF		0.59	0.59	0.56	0.59	0.59
$M_{\ell + IM}$	(k)	1,523.3	2,201.4	1,580.7	2,212.6	1,516.7
f_t (Strength I)	(ksi)	0.0	0.0	0.0	0.0	0.0
$M_u + 1/3 f_t S_x$	(k)	4,556	7,905	4,194	7,994	4,604
$\phi_r M_n$	(k)	9,114	11,363	9,114	11,363	9,114
f_s DC1	(ksi)	7.4	10.4	5.6	10.6	7.6
f_s DC2	(ksi)	1.1	1.7	0.8	1.7	1.1
f_s DW	(ksi)	2.0	3.2	1.5	3.3	2.1
f_s ($\ell + IM$)	(ksi)	8.9	10.6	9.2	10.6	8.9
f_t (Service II)	(ksi)	0.0	0.0	0.0	0.0	0.0
$f_s + f_t/2$ (Service II)	(ksi)	22.1	29.1	19.9	29.4	22.4
Service II Resistance	(ksi)	47.5	47.5	47.5	47.5	47.5
$f_s + f_t/3$ (Strength I)	(ksi)	29.2	38.5	26.5	38.9	29.6
$\phi_r F_n$	(ksi)	—	—	—	—	—
V_f	(k)	72.4	79.5	60.1	80.0	70.4

INTERIOR GIRDER MOMENT TABLE						
	0.4 Sp. 1	Pier 1	0.5 Sp. 2	Pier 2	0.6 Sp. 3	
I_s	(in ⁴)	48,771	76,887	48,771	76,887	48,771
$I_c(n)$	(in ⁴)	105,630	146,854	105,630	146,854	105,630
$I_c(3n)$	(in ⁴)	75,908	111,238	75,908	111,238	75,908
$I_c(cr)$	(in ⁴)	—	86,740	—	86,740	—
S_s	(in ²)	1,560.7	2,393.4	1,560.7	2,393.4	1,560.7
$S_c(n)$	(in ²)	2,053.4	2,938.6	2,053.4	2,938.6	2,053.4
$S_c(3n)$	(in ²)	1,879.5	2,719.1	1,879.5	2,719.1	1,879.5
$S_c(cr)$	(in ²)	—	2,502.6	—	2,502.6	—
S_x	(in ²)	1,956.1	2,728.3	1,959.1	2,735.3	1,963.6
DC1	(k/')	1.078	1.188	1.078	1.188	1.078
M_{DC1}	(k)	880.5	2,155.6	853.9	2,083.2	812.3
DC2	(k/')	0.175	0.175	0.175	0.175	0.175
M_{DC2}	(k)	152.9	366.8	146.9	354.7	141.5
DW	(k/')	0.333	0.333	0.333	0.333	0.333
M_{DW}	(k)	291.2	698.8	279.8	675.7	269.5
LLDF		0.60	0.60	0.56	0.60	0.60
$M_{\ell + IM}$	(k)	1,739.6	2,233.4	1,619.7	2,206.6	1,682.1
f_t (Strength I)	(ksi)	0.0	0.0	0.0	0.0	0.0
$M_u + 1/3 f_t S_x$	(k)	4,773	8,110	4,505	7,923	4,540
$\phi_r M_n$	(k)	9,114	11,363	9,114	11,363	9,114
f_s DC1	(ksi)	6.8	10.8	6.6	10.4	6.2
f_s DC2	(ksi)	1.0	1.8	0.9	1.7	0.9
f_s DW	(ksi)	1.9	3.4	1.8	3.2	1.7
f_s ($\ell + IM$)	(ksi)	10.2	10.7	9.5	10.6	9.8
f_t (Service II)	(ksi)	0.0	0.0	0.0	0.0	0.0
$f_s + f_t/2$ (Service II)	(ksi)	22.8	29.8	21.6	29.1	21.6
Service II Resistance	(ksi)	47.5	47.5	47.5	47.5	47.5
$f_s + f_t/3$ (Strength I)	(ksi)	30.3	39.5	28.6	38.6	28.7
$\phi_r F_n$	(ksi)	—	—	—	—	—
V_f	(k)	71.8	72.8	73.9	79.7	73.9

GIRDER REACTION TABLE					
	N. Abut.	Pier 1	Pier 2	S. Abut.	
LLDF	0.78	0.78	0.78	0.78	
OCF	—	—	—	—	
R_{DC1}	(k)	45.3	158.6	159.9	46.0
R_{DC2}	(k)	7.8	26.5	26.7	7.9
R_{DW}	(k)	14.9	50.4	50.9	15.1
R_{ℓ}	(k)	77.3	162.3	162.8	78.6
R_{IM}	(k)	16.4	29.3	29.4	16.7
R_{Total} (Strength I)(Impact)	(k)	252.8	642.4	645.9	257.0
R_{Total} (Strength I)(No Impact)	(k)	224.0	591.1	594.5	227.7

GIRDER REACTION TABLE					
	N. Abut.	Pier 1	Pier 2	S. Abut.	
LLDF	0.78	0.78	0.78	0.78	
OCF	—	—	—	—	
R_{DC1}	(k)	43.6	161.6	158.8	42.0
R_{DC2}	(k)	7.5	26.9	26.5	7.2
R_{DW}	(k)	14.3	51.3	50.4	13.8
R_{ℓ}	(k)	77.0	162.6	161.5	77.1
R_{IM}	(k)	16.5	29.3	29.3	16.6
R_{Total} (Strength I)(Impact)	(k)	248.8	648.5	641.1	246.1
R_{Total} (Strength I)(No Impact)	(k)	220.0	597.2	589.9	217.0

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 (in⁴ and in³).

$I_c(n), S_c(n)$: 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 (in⁴ and in³).

$I_c(3n), S_c(3n)$: 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 (in⁴ and in³).

$I_c(cr), S_c(cr)$: 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 (in⁴ and in³).

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 (in³).

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.

$M_{\ell + IM}$: Un-factored live load moment plus dynamic load allowance (impact) (kip-ft.).

M_u : Strength I load combination of factored design moments (kip-ft.).

$1.25 (M_{DC1} + M_{DC2}) + 1.5 M_{DW} + 1.75 M_{\ell + IM}$

f_t : Factored calculated flange lateral bending stress as calculated using Article 6.10.1.6 and as further simplified by IDOT provisions (ksi).

$\phi_r M_n$: 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 ($\ell + IM$): Un-factored stress at edge of flange for controlling steel flange due to vertical composite live load plus impact loads as calculated below (ksi).

$M_{\ell + IM} / S_c(n)$ or $M_{\ell + IM} / S_c(cr)$ as applicable.

$f_s + f_t/2$ (Service II): Sum of stresses as computed below (ksi).

Service II Resistance: Composite (0.95 $R_{hF_{yr}}$) or noncomposite (0.80 $R_{hF_{yr}}$) stress capacity according to Article 6.10.4.2 (ksi).

$f_s + f_t/3$ (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 ($\ell + IM$) + $f_t/3$

$\phi_r F_n$: Factored nominal flexural resistance of the section as specified in Article 6.10.7.2 or 6.10.8 as applicable (ksi).

V_f : 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).

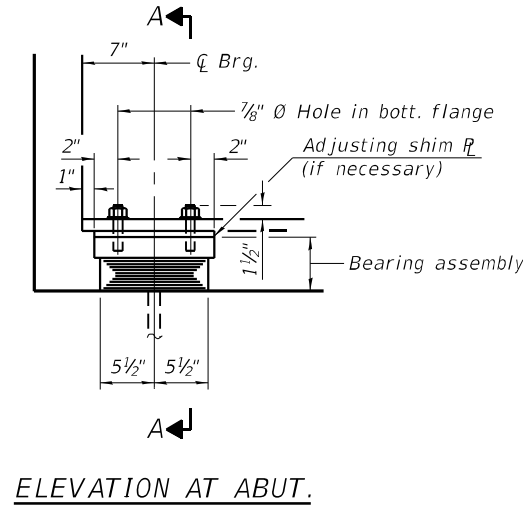
R_{Total} (Strength I)(Impact): Strength I load combination of factored design reactions (kip).

1.25 ($R_{DC1} + R_{DC2}$) + 1.5 R_{DW} + 1.75 ($R_{\ell} + R_{IM}$)

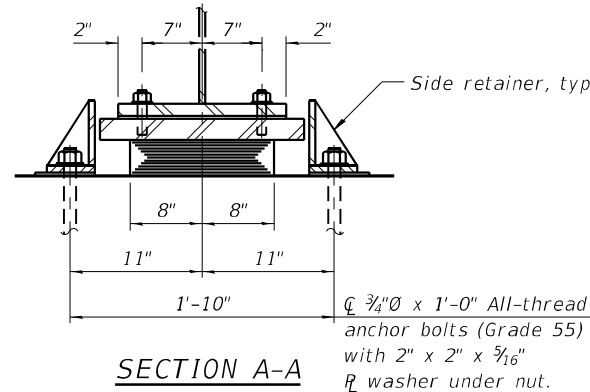
R_{Total} (Strength I)(No Impact): Strength I load combination of factored design reactions, not including dynamic load allowance (Impact) (kip).

1.25 ($R_{DC1} + R_{DC2}$) + 1.5 R_{DW} + 1.75 (R_{ℓ})

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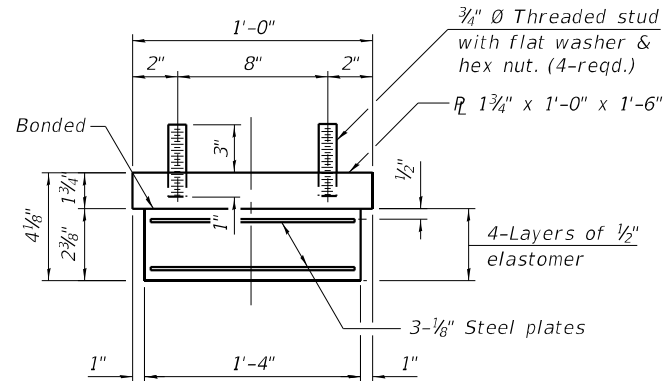


ELEVATION AT ABUT.



SECTION A-A

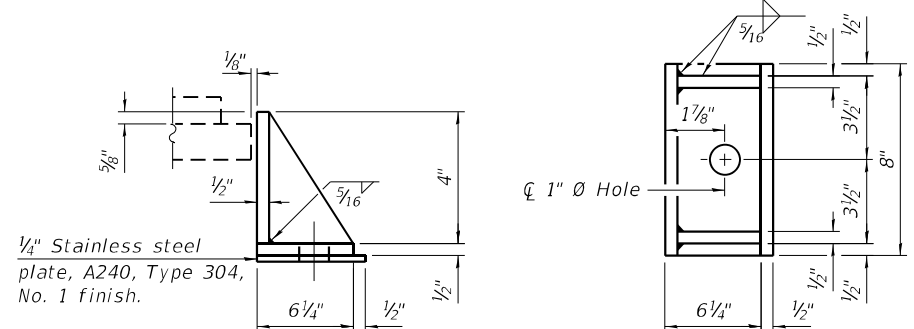
TYPE I ELASTOMERIC EXP. BRG.



BEARING ASSEMBLY

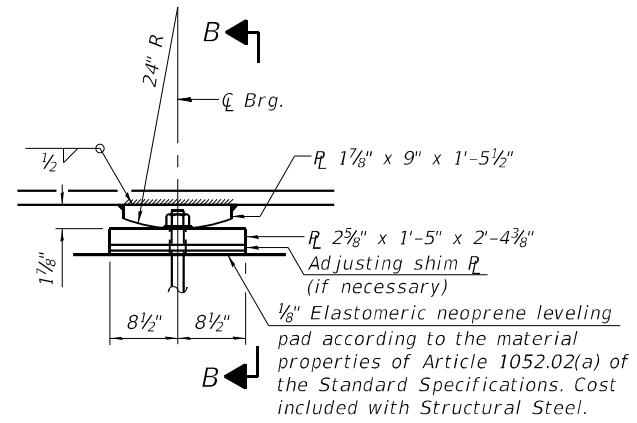
Note:
Shim plates shall not be placed under bearing assembly.

Notes:
Side retainers and stainless steel plates shall be included in the cost of Elastomeric Bearing Assembly, Type I.
Anchor bolts and side retainers at all supports shall be installed as each member is erected unless an equivalent temporary means of lateral restraint is used.
The structural steel plates of the Bearing Assembly shall conform to the requirements of AASHTO M270 Grade 50W.
The structural steel plates and pintles shall conform to the requirements of AASHTO M270 Grade 50W.
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.

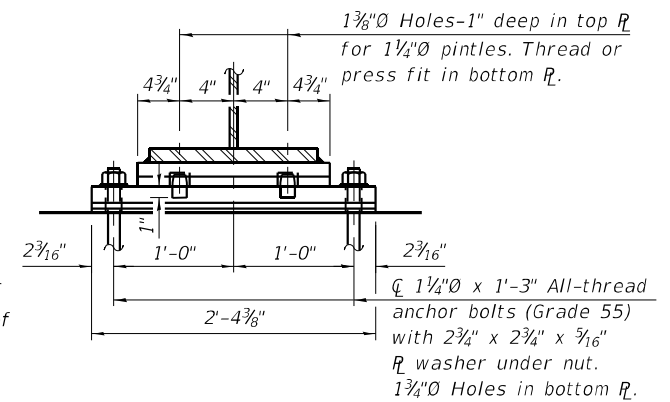


SIDE RETAINER

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

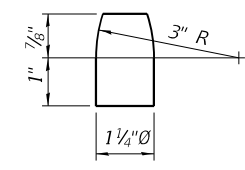


ELEVATION AT PIER



SECTION B-B

FIXED BEARING



PINTLE

BILL OF MATERIAL

Item	Unit	Total
Elastomeric Bearing Assembly, Type I	Each	24
Anchor Bolts, 3/4"	Each	48
Anchor Bolts, 1 1/4"	Each	48

I-2E-1

6-15-2019

EFK Moen
Civil Engineering Design

USER NAME =	ABenz
PLOT SCALE =	
PLOT DATE =	2/12/2024

DESIGNED -	CMC
CHECKED -	ACB
DRAWN -	CMC
CHECKED -	ACB

REVISED -	
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REVISED -	
REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

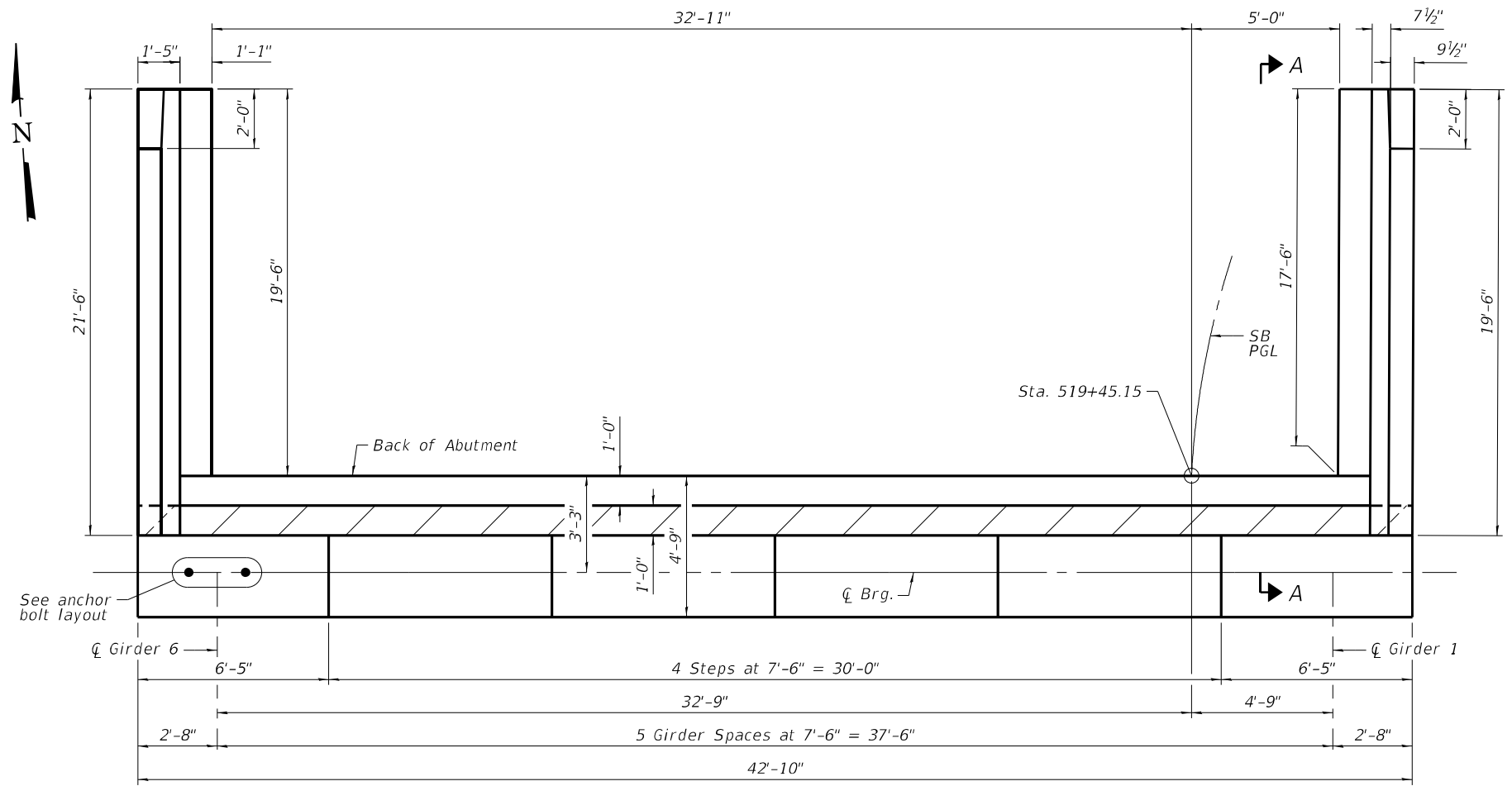
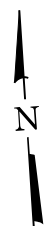
BEARING DETAILS
STRUCTURE NO. 006-0193 (SB) & 006-0194 (NB)

SHEET 42 OF 80 SHEETS

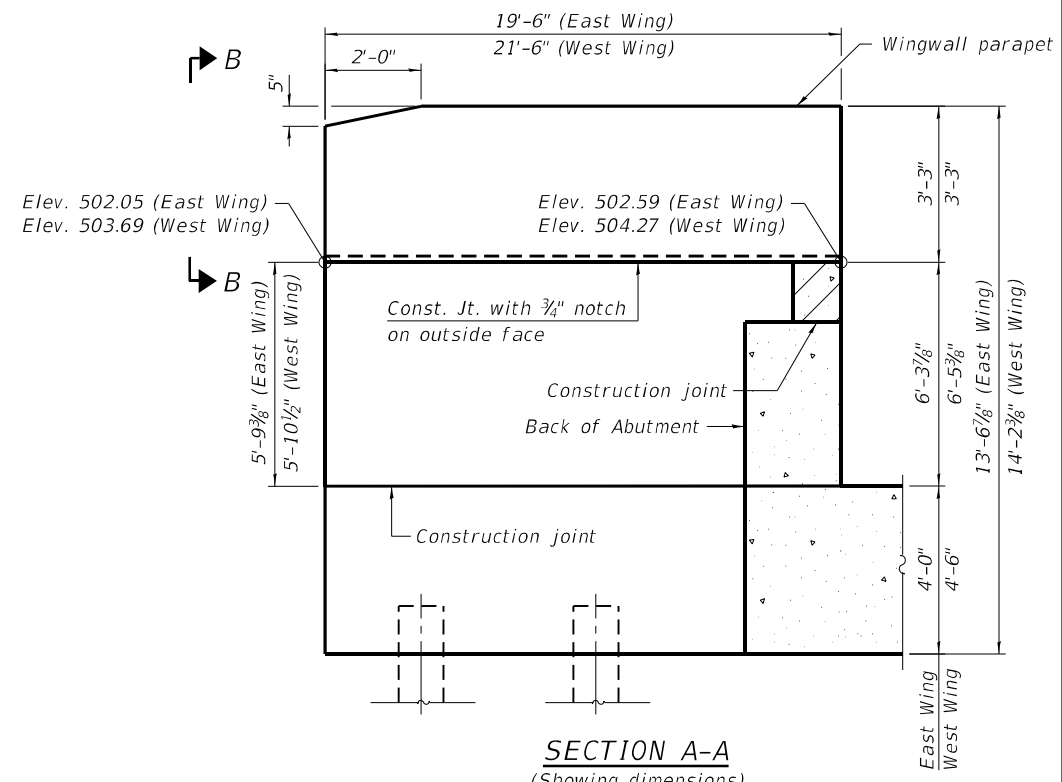
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
180	(06-2B-1)ES	BUREAU	327	182
CONTRACT NO. 66K66				

ILLINOIS FED. AID PROJECT

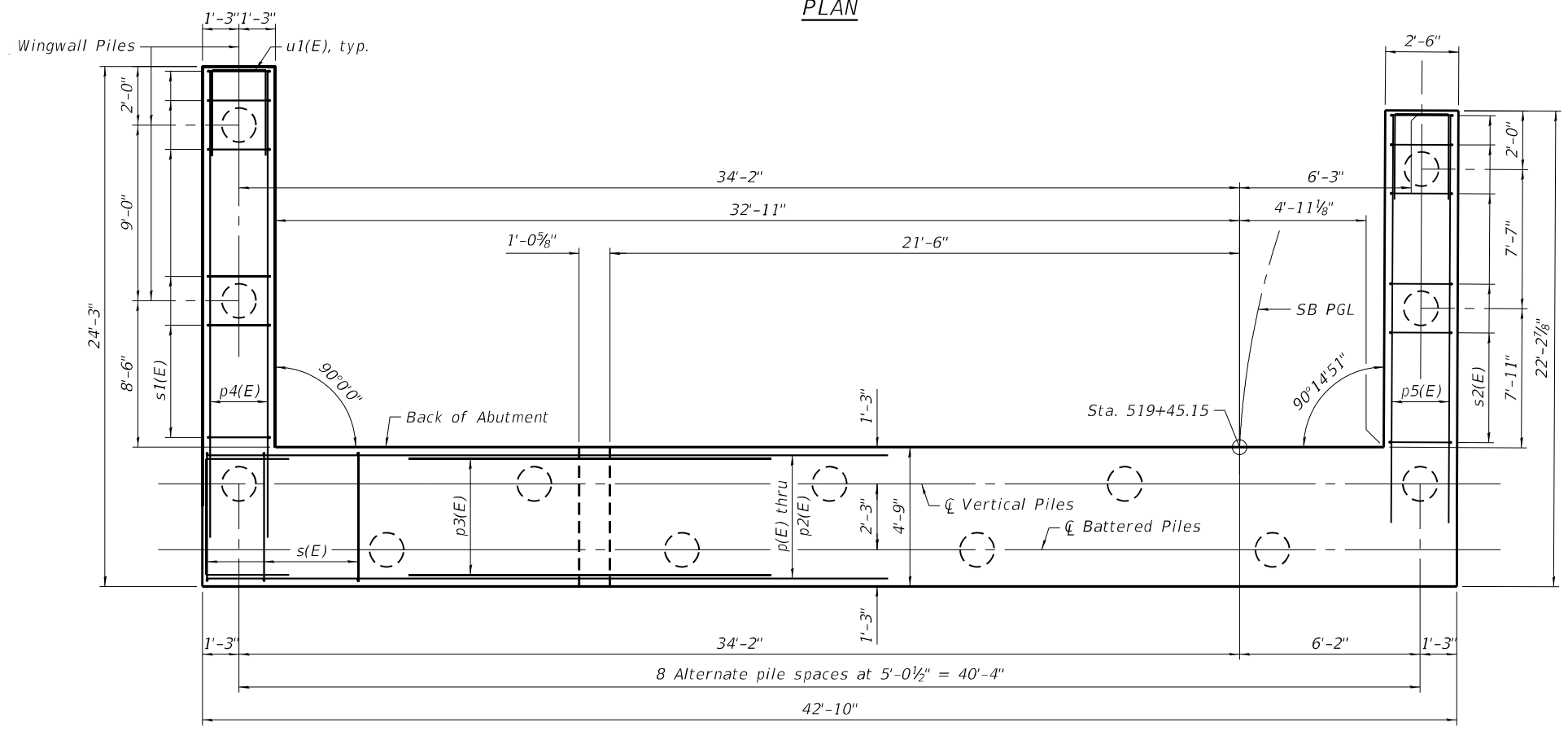
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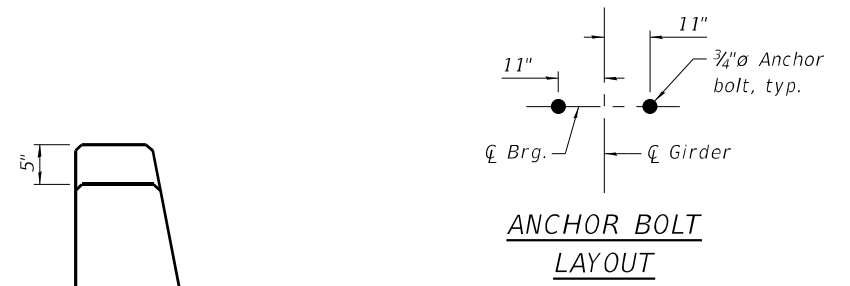
PLAN



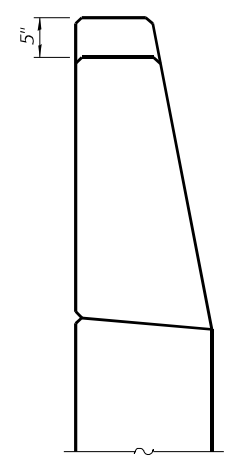
SECTION A-A
(Showing dimensions)



PILE CAP PLAN



ANCHOR BOLT LAYOUT



VIEW B-B

(Sheet 1 of 3)

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AS-39CS-0

12-30-2021

EFK Moen
Civil Engineering Design

USER NAME = ABenz	DESIGNED - CMC	REVISED -
PLOT SCALE =	CHECKED - ACB	REVISED -
PLOT DATE = 2/12/2024	DRAWN - CMC	REVISED -
	CHECKED - ACB	REVISED -

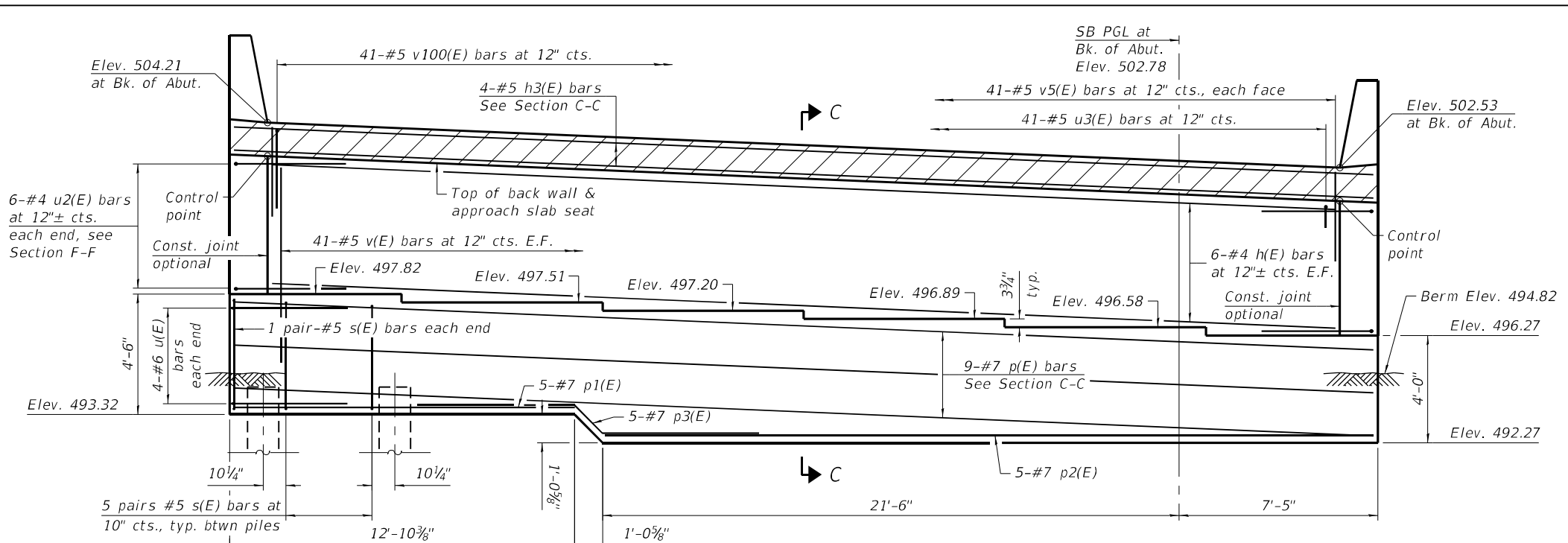
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

NORTH ABUTMENT
STRUCTURE NO. 006-0193 (SB)

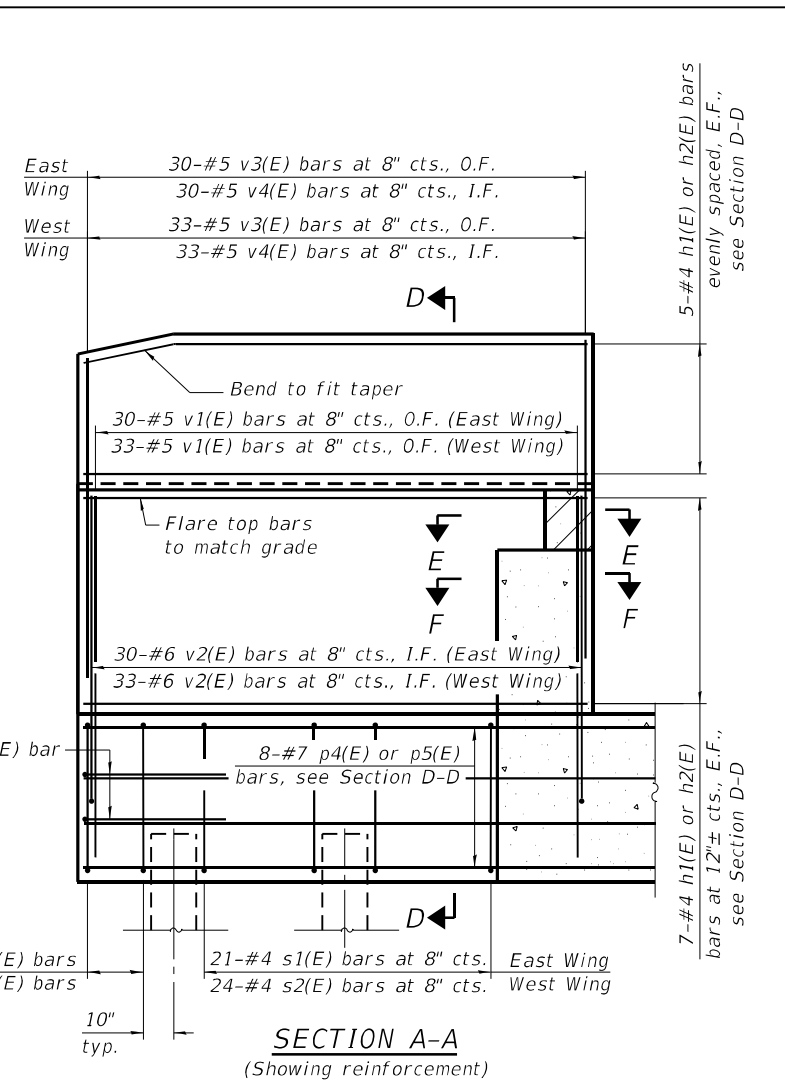
SHEET 43 OF 80 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
180	(06-2B-1)ES	BUREAU	327	183
CONTRACT NO. 66K66				
ILLINOIS FED. AID PROJECT				

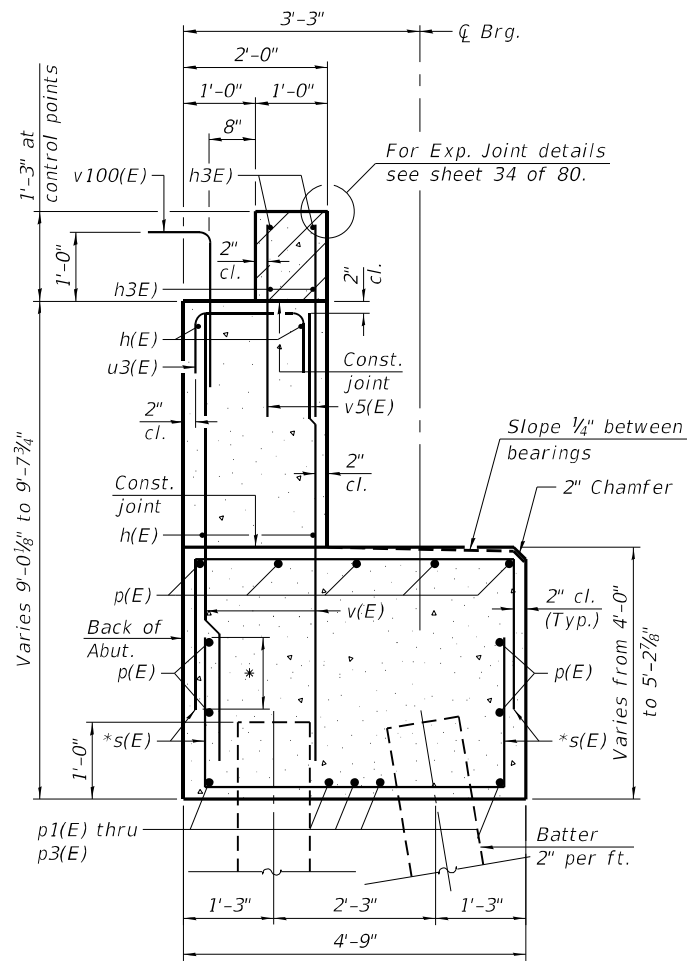
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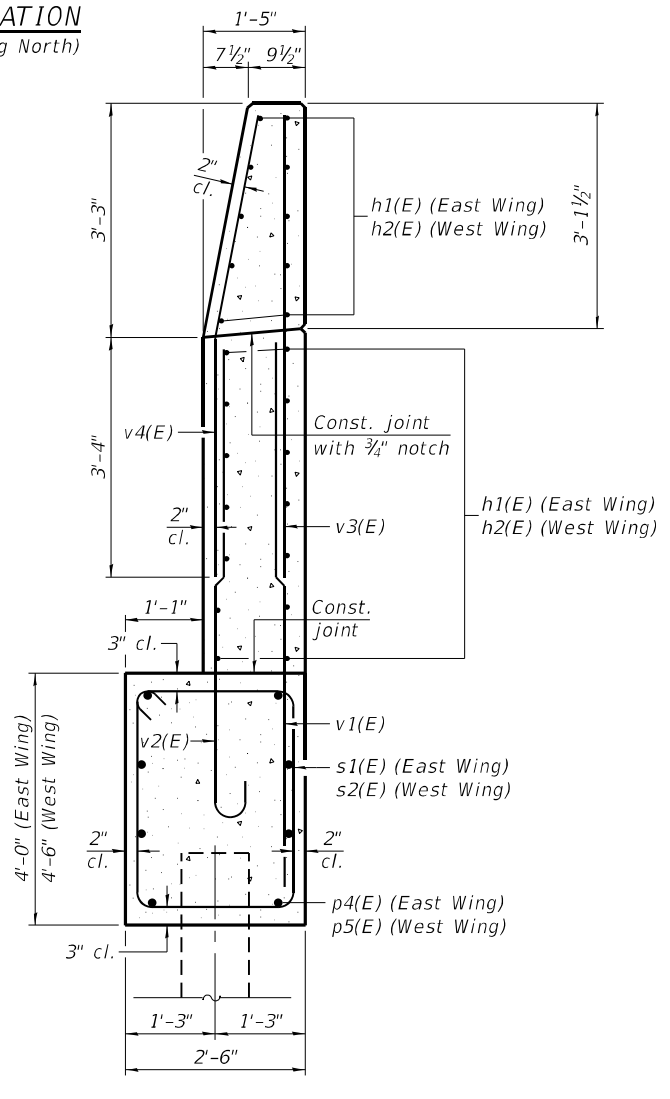
ELEVATION
(Looking North)



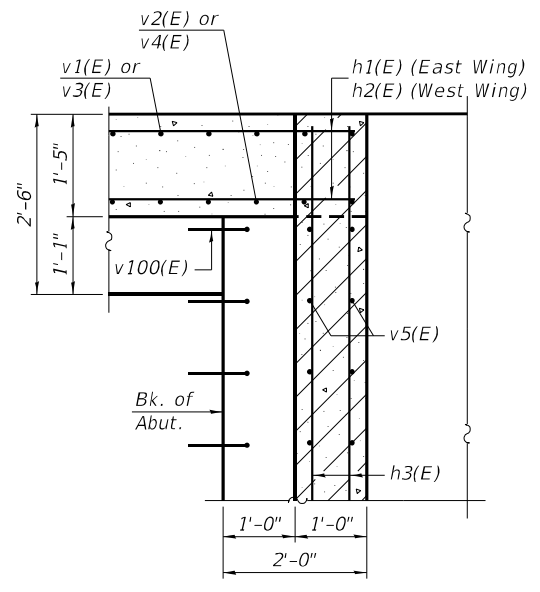
SECTION A-A
(Showing reinforcement)



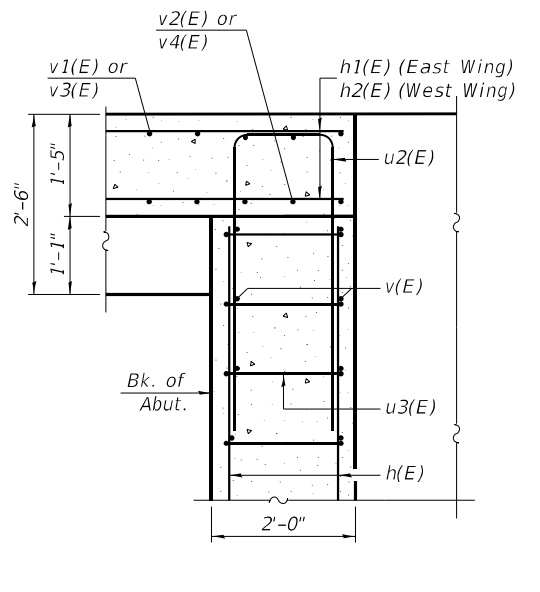
SECTION C-C * Min. Lap = 2'-9"



SECTION D-D



SECTION E-E



SECTION F-F

AS-39CS-0

12-30-2021

(Sheet 2 of 3)

EFK Moen
Civil Engineering Design

USER NAME = ABenz	DESIGNED - CMC	REVISED -
PLOT SCALE =	CHECKED - ACB	REVISED -
PLOT DATE = 2/12/2024	DRAWN - CMC	REVISED -
	CHECKED - ACB	REVISED -

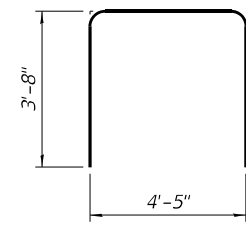
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

NORTH ABUTMENT
STRUCTURE NO. 006-0193 (SB)

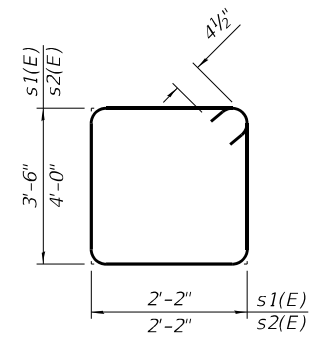
F.A.I. RTE. 180	SECTION (06-2B-1)ES	COUNTY BUREAU	TOTAL SHEETS 327	SHEET NO. 184
CONTRACT NO. 66K66				
ILLINOIS FED. AID PROJECT				

SHEET 44 OF 80 SHEETS

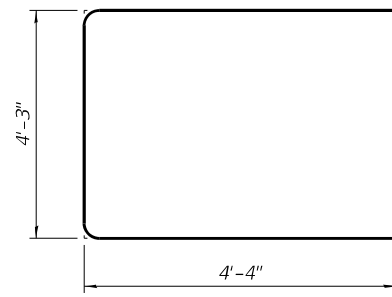
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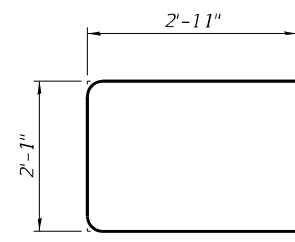
BARS s(E)



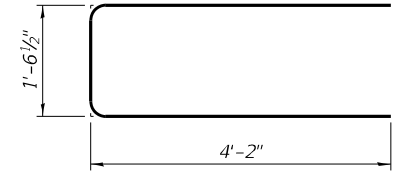
BARS s1(E) & s2(E)



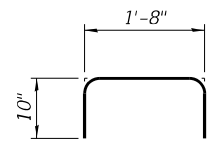
BAR u(E)



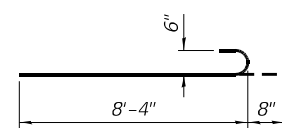
BAR u1(E)



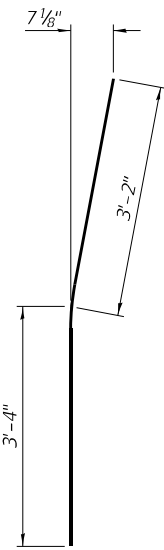
BAR u2(E)



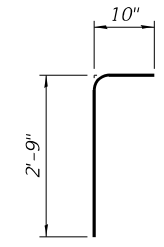
BAR u3(E)



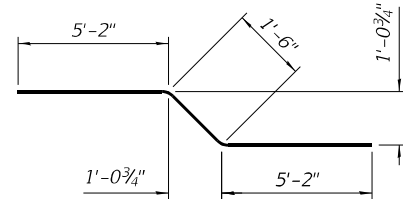
BAR v2(E)



BAR v4(E)



BAR v100(E)



BAR p3(E)

**ABUTMENT
 BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
h(E)	12	#4	39'-8"	—
h1(E)	24	#4	19'-2"	—
h2(E)	24	#4	21'-2"	—
h3(E)	4	#5	42'-6"	—
p(E)	9	#7	42'-6"	—
p1(E)	5	#7	12'-8"	—
p2(E)	5	#7	28'-8"	—
p3(E)	5	#7	11'-10"	—
p4(E)	8	#7	21'-11"	—
p5(E)	8	#7	23'-11"	—
s(E)	84	#5	11'-9"	□
s1(E)	24	#4	12'-1"	□
s2(E)	27	#4	13'-1"	□
u(E)	8	#6	12'-11"	U
u1(E)	4	#4	7'-11"	U
u2(E)	12	#4	9'-11"	U
u3(E)	41	#5	3'-4"	U
v(E)	82	#5	8'-0"	—
v1(E)	63	#5	9'-5"	—
v2(E)	63	#6	9'-0"	—
v3(E)	63	#5	6'-4"	—
v4(E)	63	#5	6'-6"	—
v5(E)	82	#5	2'-9"	—
v100(E)	41	#5	3'-7"	—
Structure Excavation		Cu. Yd.	254	
Concrete Structures		Cu. Yd.	75.6	
Reinforcement Bars, Epoxy Coated		Pound	8,460	
Furnishing Metal Shell Piles, 14" X 0.312"		Foot	564	
Driving Piles		Foot	564	
Test Pile Metal Shells		Each	1	
Pile Shoes		Each	13	
Concrete Sealer		Sq. Ft.	599	

Notes:
 Hatched area to be poured separately after superstructure falsework has been removed and after approach slab side formwork has been removed.
 Quantity of concrete in wingwall parapet and hatched area included with Concrete Superstructure on sheet 23 of 80.
 Space reinforcement in cap to miss anchor bolts.
 Pour steps monolithically with cap.
 For details of piles, see sheet 59 of 80.
 The top of back wall and approach slab seat shall have a constant slope determined from the control points shown.
 Concrete Sealer shall be applied to the bearing seats and front faces of the hatched block, back wall, and abutment cap.

PILE DATA

Type: Metal Shell Piles, 14" X 0.312" with pile shoes
 Nominal Required Bearing: 549 kips
 Factored Resistance Available: 302 kips
 Est. Length: 47 feet
 No. Production Piles: 12
 No. Test Piles: 1

AS-39CS-0

12-30-2021

(Sheet 3 of 3)



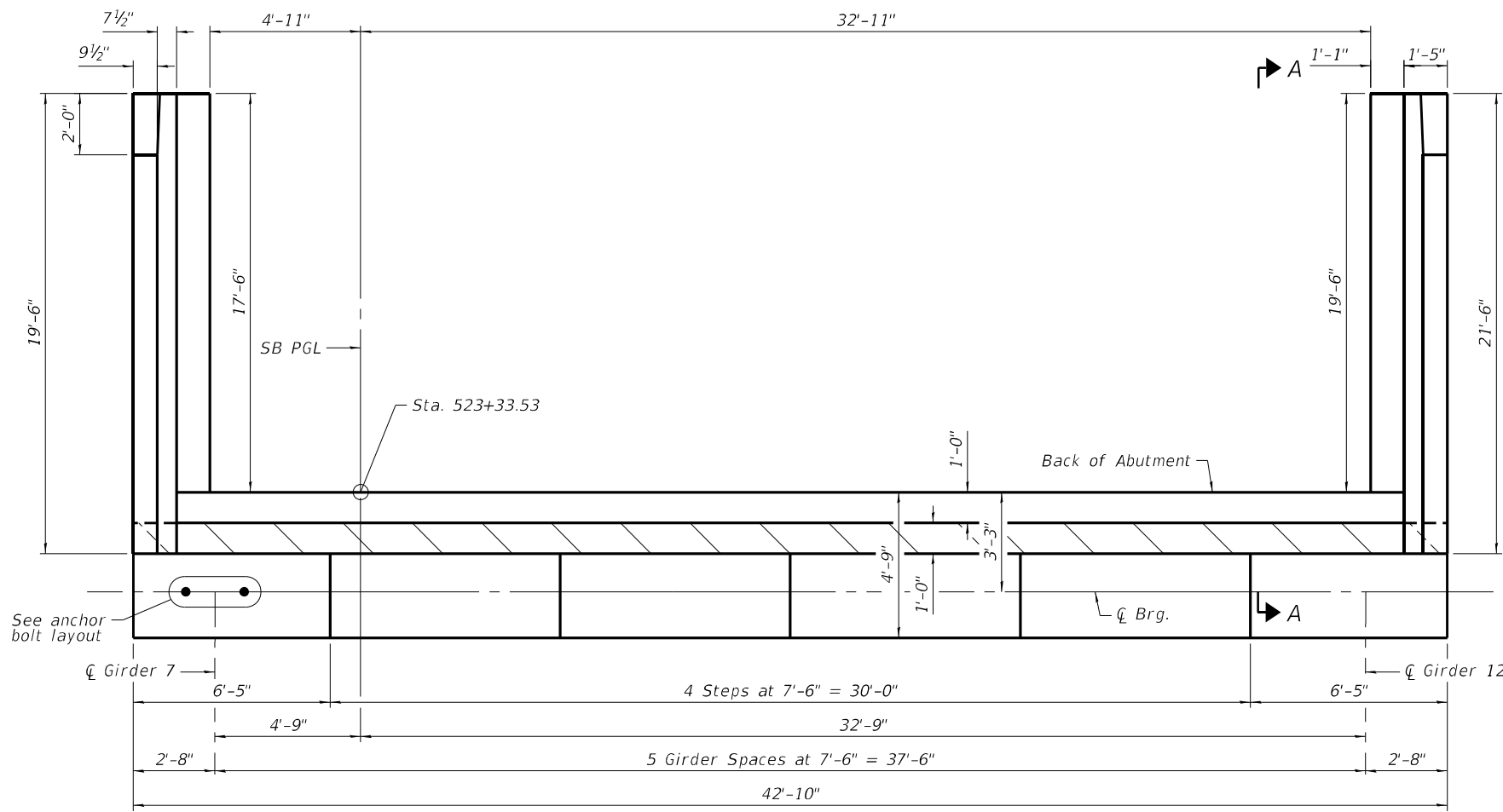
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PLOT SCALE =	CHECKED - ACB	REVISED -
PLOT DATE = 2/12/2024	DRAWN - CMC	REVISED -
	CHECKED - ACB	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

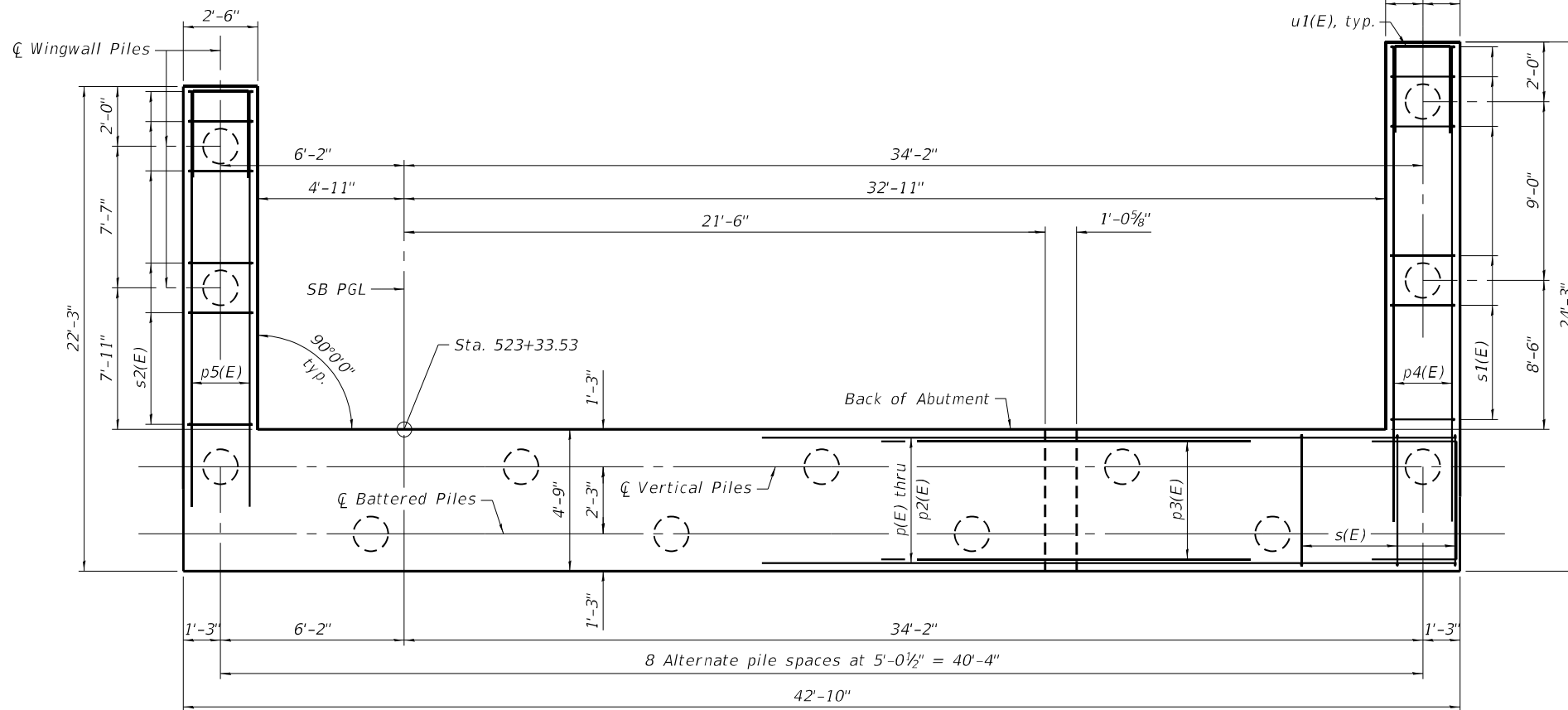
**NORTH ABUTMENT
 STRUCTURE NO. 006-0193 (SB)**

SHEET 45 OF 80 SHEETS

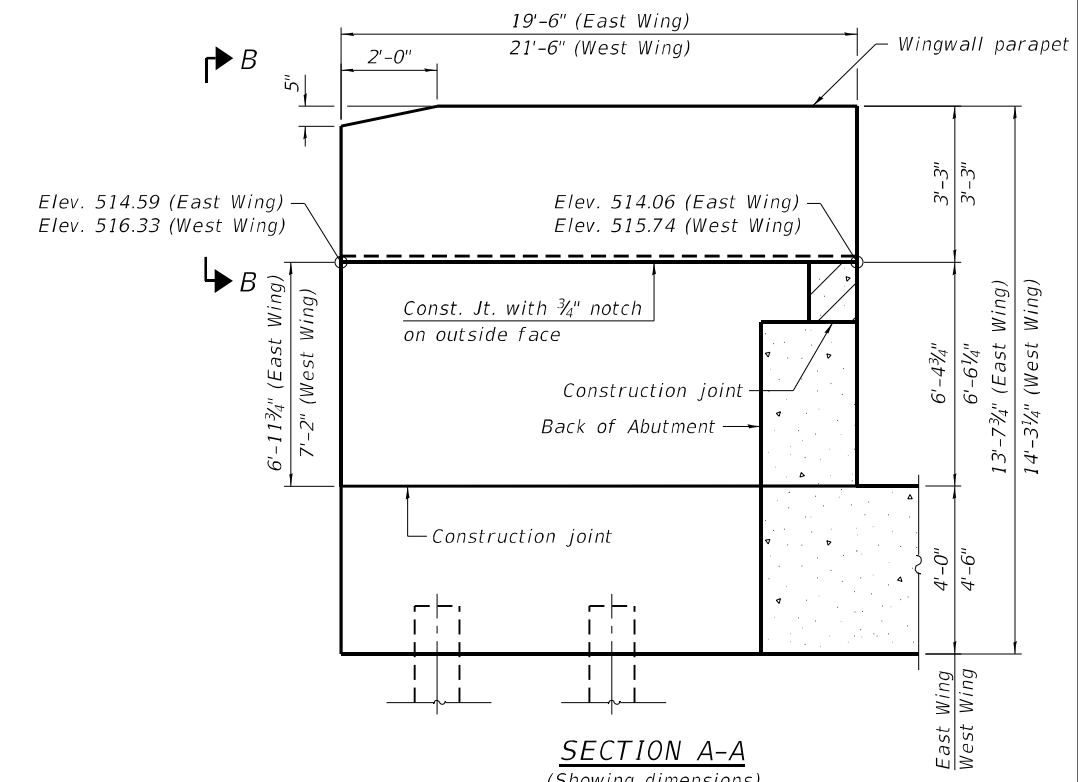
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
180	(06-2B-1)ES	BUREAU	327	185
ILLINOIS FED. AID PROJECT CONTRACT NO. 66K66				



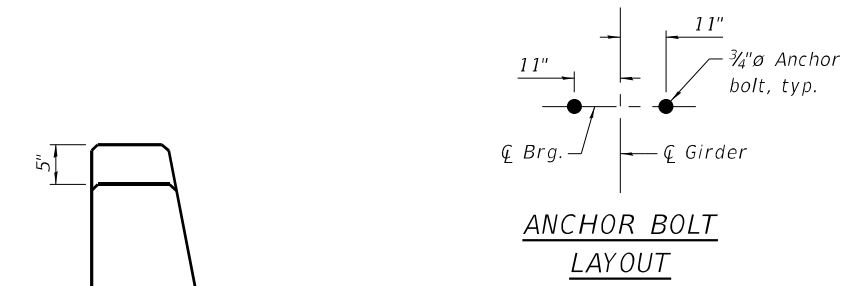
PLAN



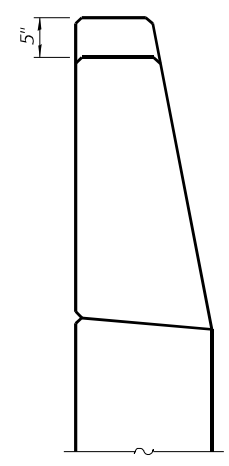
PILE CAP PLAN



SECTION A-A
(Showing dimensions)



ANCHOR BOLT LAYOUT



VIEW B-B

(Sheet 1 of 3)

MODEL: Default
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AS-39CS-0

12-30-2021

EFK Moen
Civil Engineering Design

USER NAME = ABenz	DESIGNED - CMC	REVISED -
PLOT SCALE =	CHECKED - ACB	REVISED -
PLOT DATE = 2/12/2024	DRAWN - CMC	REVISED -
	CHECKED - ACB	REVISED -

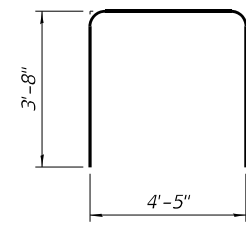
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOUTH ABUTMENT
STRUCTURE NO. 006-0193 (SB)

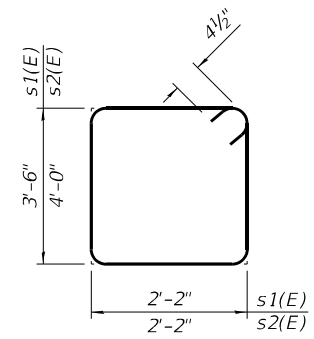
SHEET 46 OF 80 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
180	(06-2B-1)ES	BUREAU	327	186
CONTRACT NO. 66K66				
ILLINOIS FED. AID PROJECT				

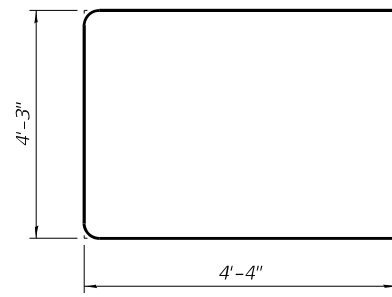
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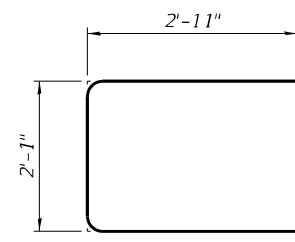
BARS s(E)



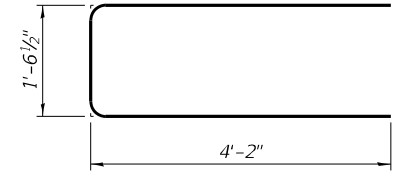
BARS s1(E) & s2(E)



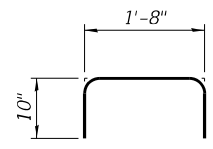
BAR u(E)



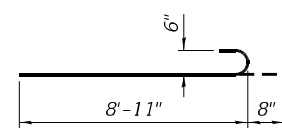
BAR u1(E)



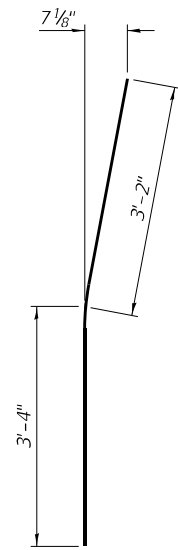
BAR u2(E)



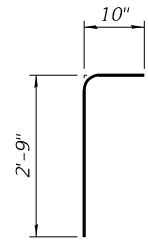
BAR u3(E)



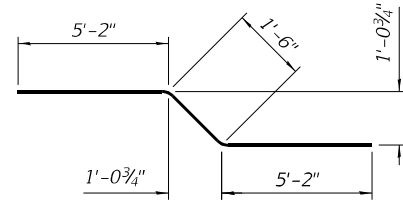
BAR v7(E)



BAR v4(E)



BAR v100(E)



BAR p3(E)

**ABUTMENT
BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
h(E)	12	#4	39'-8"	▬
h1(E)	26	#4	19'-2"	▬
h2(E)	26	#4	21'-2"	▬
h3(E)	4	#5	42'-6"	▬
p(E)	9	#7	42'-6"	▬
p1(E)	5	#7	12'-8"	▬
p2(E)	5	#7	28'-8"	▬
p3(E)	5	#7	11'-10"	▬
p4(E)	8	#7	21'-11"	▬
p5(E)	8	#7	23'-11"	▬
s(E)	84	#5	11'-9"	▬
s1(E)	24	#4	12'-1"	▬
s2(E)	27	#4	13'-1"	▬
u(E)	8	#6	12'-11"	▬
u1(E)	4	#4	7'-11"	▬
u2(E)	12	#4	9'-11"	▬
u3(E)	41	#5	3'-4"	▬
v(E)	82	#5	8'-0"	▬
v3(E)	63	#5	6'-4"	▬
v4(E)	63	#5	6'-6"	▬
v5(E)	82	#5	2'-9"	▬
v6(E)	63	#5	10'-0"	▬
v7(E)	63	#6	9'-7"	▬
v100(E)	41	#5	3'-7"	▬
Structure Excavation		Cu. Yd.	205	
Concrete Structures		Cu. Yd.	77.2	
Reinforcement Bars, Epoxy Coated		Pound	8,610	
Furnishing Metal Shell Piles, 14" X 0.312"		Foot	720	
Driving Piles		Foot	720	
Test Pile Metal Shells		Each	1	
Pile Shoes		Each	13	
Concrete Sealer		Sq. Ft.	602	

Notes:
 Hatched area to be poured separately after superstructure falsework has been removed and after approach slab side formwork has been removed.
 Quantity of concrete in wingwall parapet and hatched area included with Concrete Superstructure on sheet 23 of 80.
 Space reinforcement in cap to miss anchor bolts.
 Pour steps monolithically with cap.
 For details of piles, see sheet 59 of 80.
 The top of back wall and approach slab seat shall have a constant slope determined from the control points shown.
 Concrete Sealer shall be applied to the bearing seats and front faces of the hatched block, back wall, and abutment cap.

PILE DATA

Type: Metal Shell Piles, 14" X 0.312" with pile shoes
 Nominal Required Bearing: 567 kips
 Factored Resistance Available: 312 kips
 Est. Length: 60 feet
 No. Production Piles: 12
 No. Test Piles: 1

AS-39CS-0

12-30-2021

(Sheet 3 of 3)



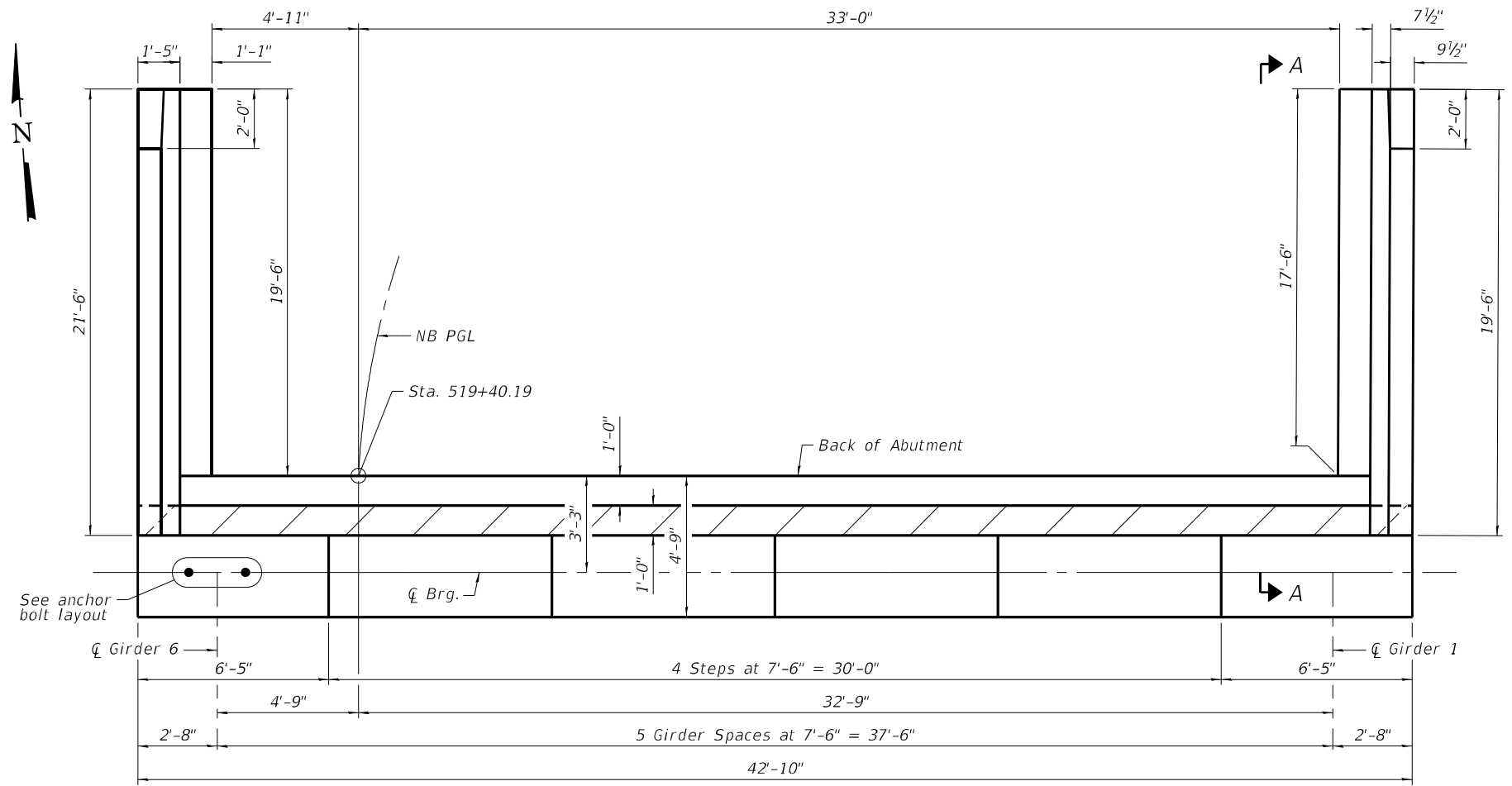
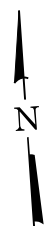
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PLOT SCALE =	CHECKED - ACB	REVISED -
PLOT DATE = 2/12/2024	DRAWN - CMC	REVISED -
	CHECKED - ACB	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

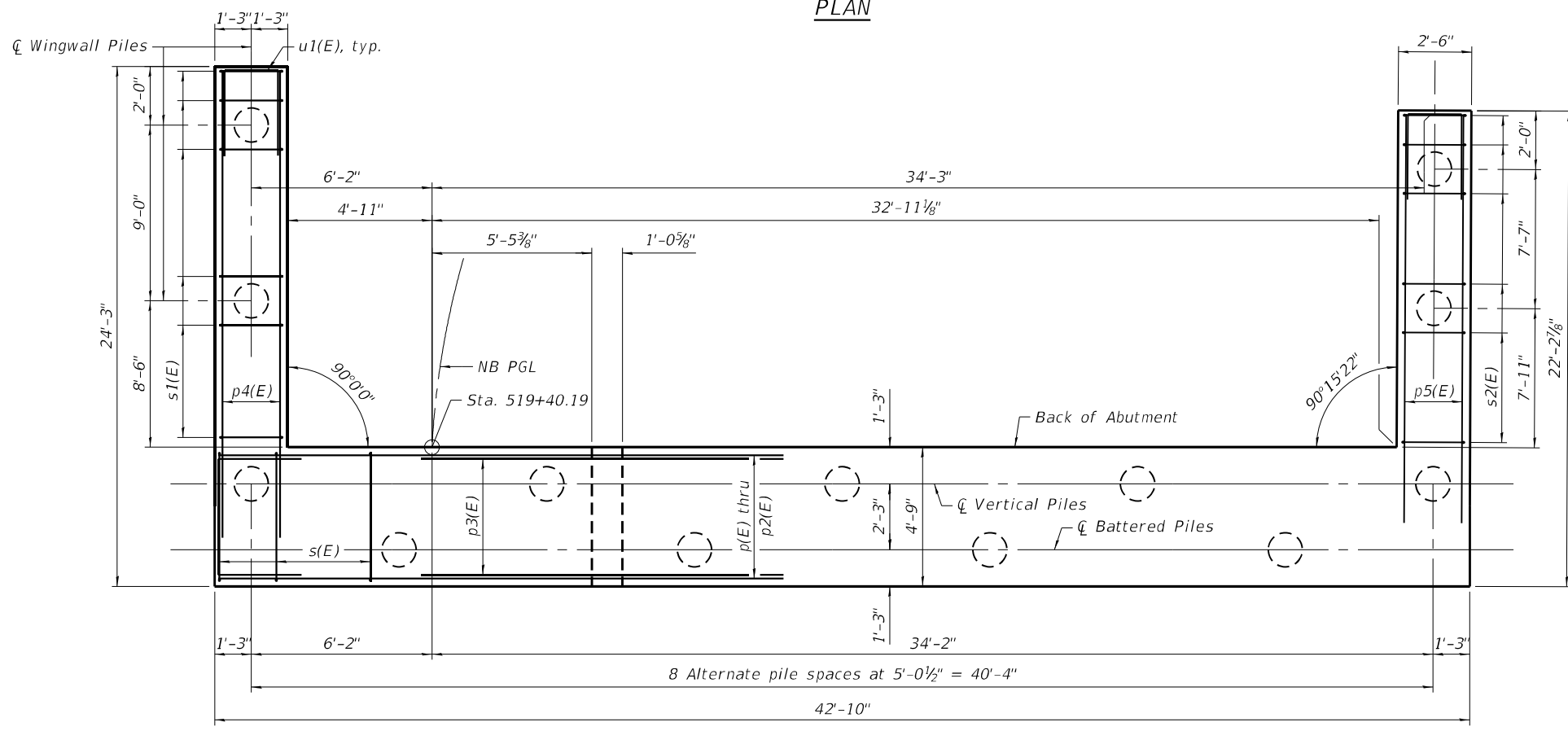
**SOUTH ABUTMENT
STRUCTURE NO. 006-0193 (SB)**

SHEET 48 OF 80 SHEETS

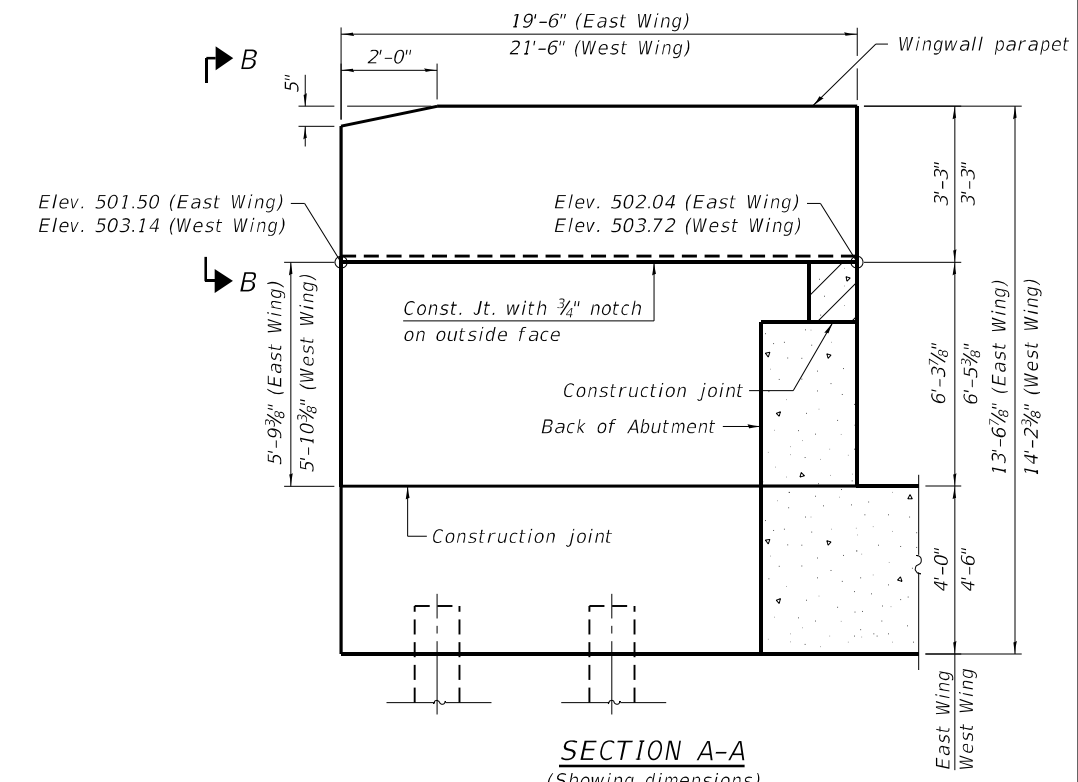
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
180	(06-2B-1)ES	BUREAU	327	188
ILLINOIS FED. AID PROJECT CONTRACT NO. 66K66				



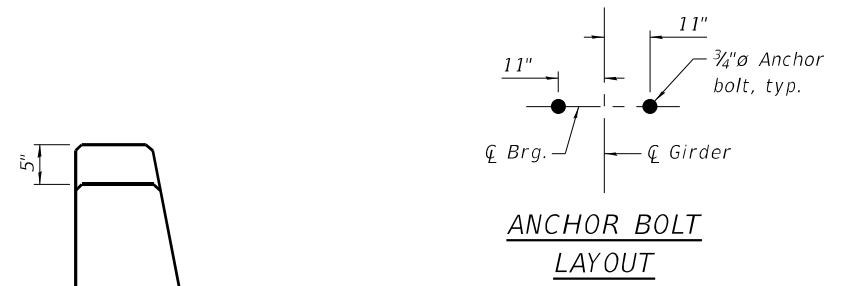
PLAN



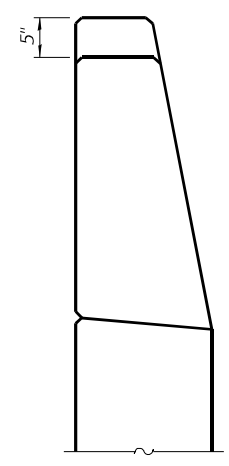
PILE CAP PLAN



SECTION A-A
(Showing dimensions)



ANCHOR BOLT LAYOUT



VIEW B-B

(Sheet 1 of 3)

MODEL: Default
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 2/12/2024 10:37:26 AM

AS-39CS-0

12-30-2021

EFK Moen
Civil Engineering Design

USER NAME = ABenz	DESIGNED - CMC	REVISED -
PLOT SCALE =	CHECKED - ACB	REVISED -
PLOT DATE = 2/12/2024	DRAWN - CMC	REVISED -
	CHECKED - ACB	REVISED -

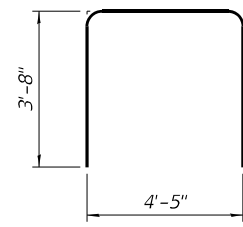
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

NORTH ABUTMENT
STRUCTURE NO. 006-0194 (NB)

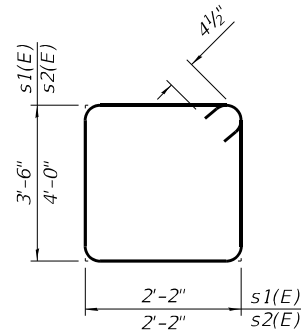
SHEET 49 OF 80 SHEETS

F.A.I. RTE. 180	SECTION (06-2B-1)ES	COUNTY BUREAU	TOTAL SHEETS 327	SHEET NO. 189
CONTRACT NO. 66K66				
ILLINOIS FED. AID PROJECT				

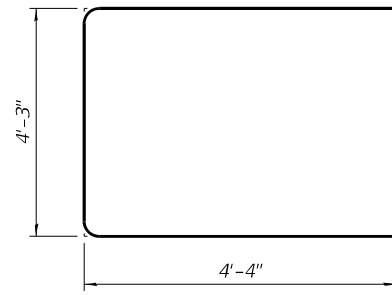
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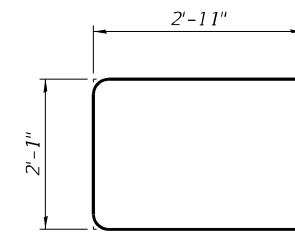
BARS s(E)



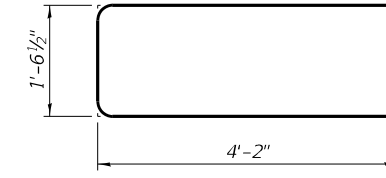
BARS s1(E) & s2(E)



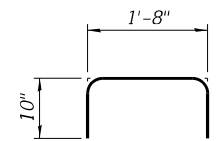
BAR u(E)



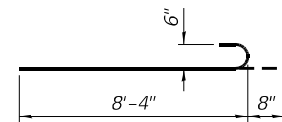
BAR u1(E)



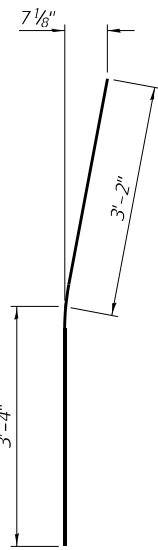
BAR u2(E)



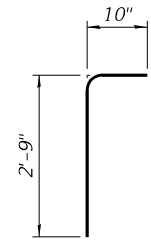
BAR u3(E)



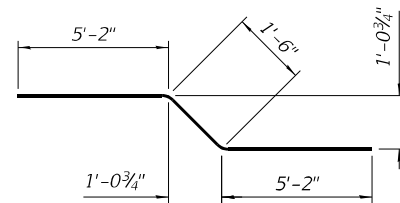
BAR v2(E)



BAR v4(E)



BAR v100(E)



BAR p3(E)

**ABUTMENT
BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
h(E)	12	#4	39'-8"	—
h1(E)	24	#4	19'-2"	—
h2(E)	24	#4	21'-2"	—
h3(E)	4	#5	42'-6"	—
p(E)	9	#7	42'-6"	—
p1(E)	5	#7	12'-8"	—
p2(E)	5	#7	28'-8"	—
p3(E)	5	#7	11'-10"	—
p4(E)	8	#7	21'-11"	—
p5(E)	8	#7	23'-11"	—
s(E)	84	#5	11'-9"	□
s1(E)	24	#4	12'-1"	□
s2(E)	27	#4	13'-1"	□
u(E)	8	#6	12'-11"	U
u1(E)	4	#4	7'-11"	U
u2(E)	12	#4	9'-11"	U
u3(E)	41	#5	3'-4"	U
v(E)	82	#5	8'-0"	—
v1(E)	63	#5	9'-5"	—
v2(E)	63	#6	9'-0"	—
v3(E)	63	#5	6'-4"	—
v4(E)	63	#5	6'-6"	—
v5(E)	82	#5	2'-9"	—
v100(E)	41	#5	3'-7"	—
Structure Excavation		Cu. Yd.	269	
Concrete Structures		Cu. Yd.	75.6	
Reinforcement Bars, Epoxy Coated		Pound	8,460	
Furnishing Metal Shell Piles, 14" X 0.312"		Foot	540	
Driving Piles		Foot	540	
Test Pile Metal Shells		Each	1	
Pile Shoes		Each	13	
Concrete Sealer		Sq. Ft.	599	

Notes:
 Hatched area to be poured separately after superstructure falsework has been removed and after approach slab side formwork has been removed.
 Quantity of concrete in wingwall parapet and hatched area included with Concrete Superstructure on sheet 28 of 80.
 Space reinforcement in cap to miss anchor bolts.
 Pour steps monolithically with cap.
 For details of piles, see sheet 59 of 80.
 The top of back wall and approach slab seat shall have a constant slope determined from the control points shown.
 Concrete Sealer shall be applied to the bearing seats and front faces of the hatched block, back wall, and abutment cap.

PILE DATA

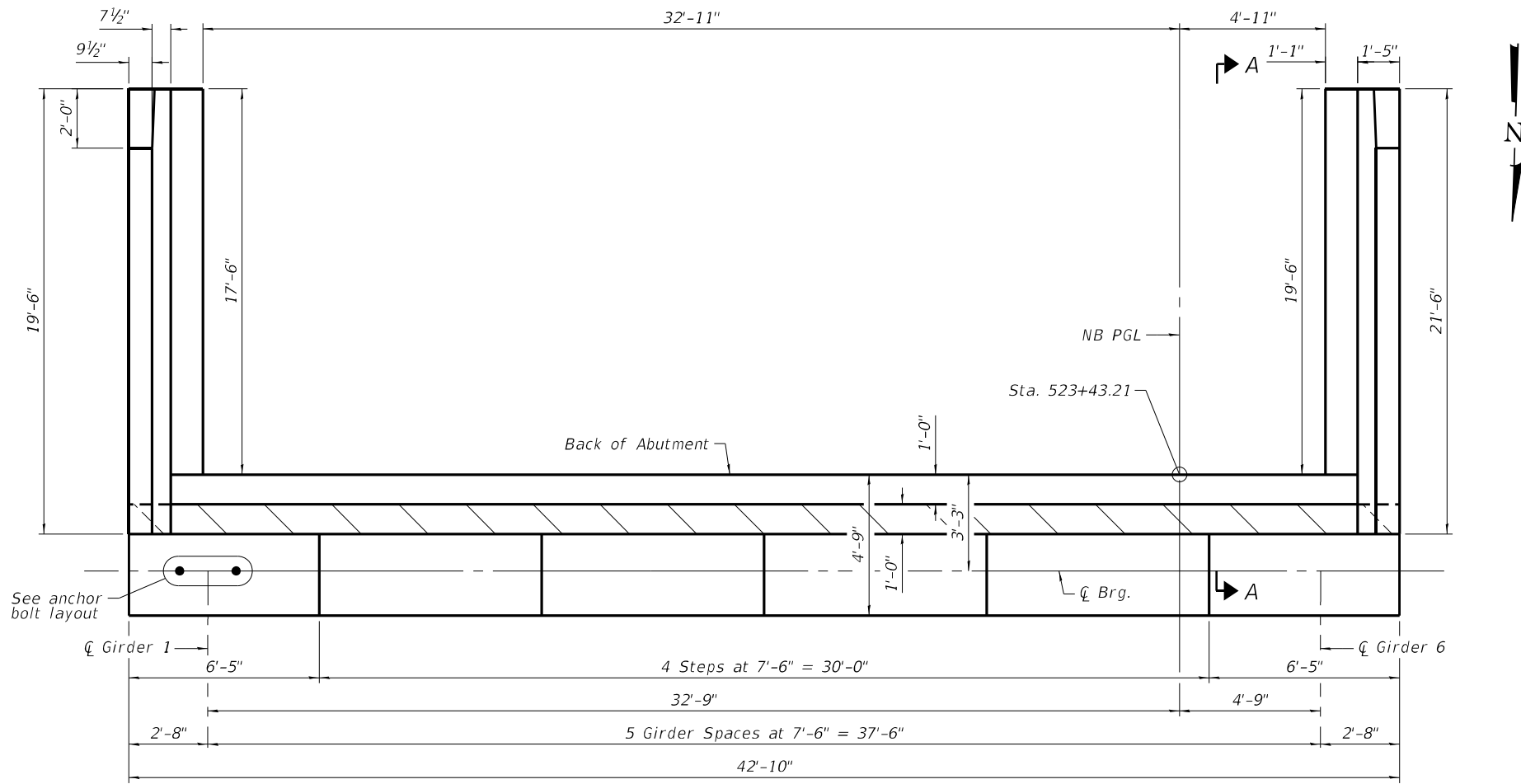
Type: Metal Shell Piles, 14" X 0.312" with pile shoes
 Nominal Required Bearing: 549 kips
 Factored Resistance Available: 302 kips
 Est. Length: 45 feet
 No. Production Piles: 12
 No. Test Piles: 1

AS-39CS-0

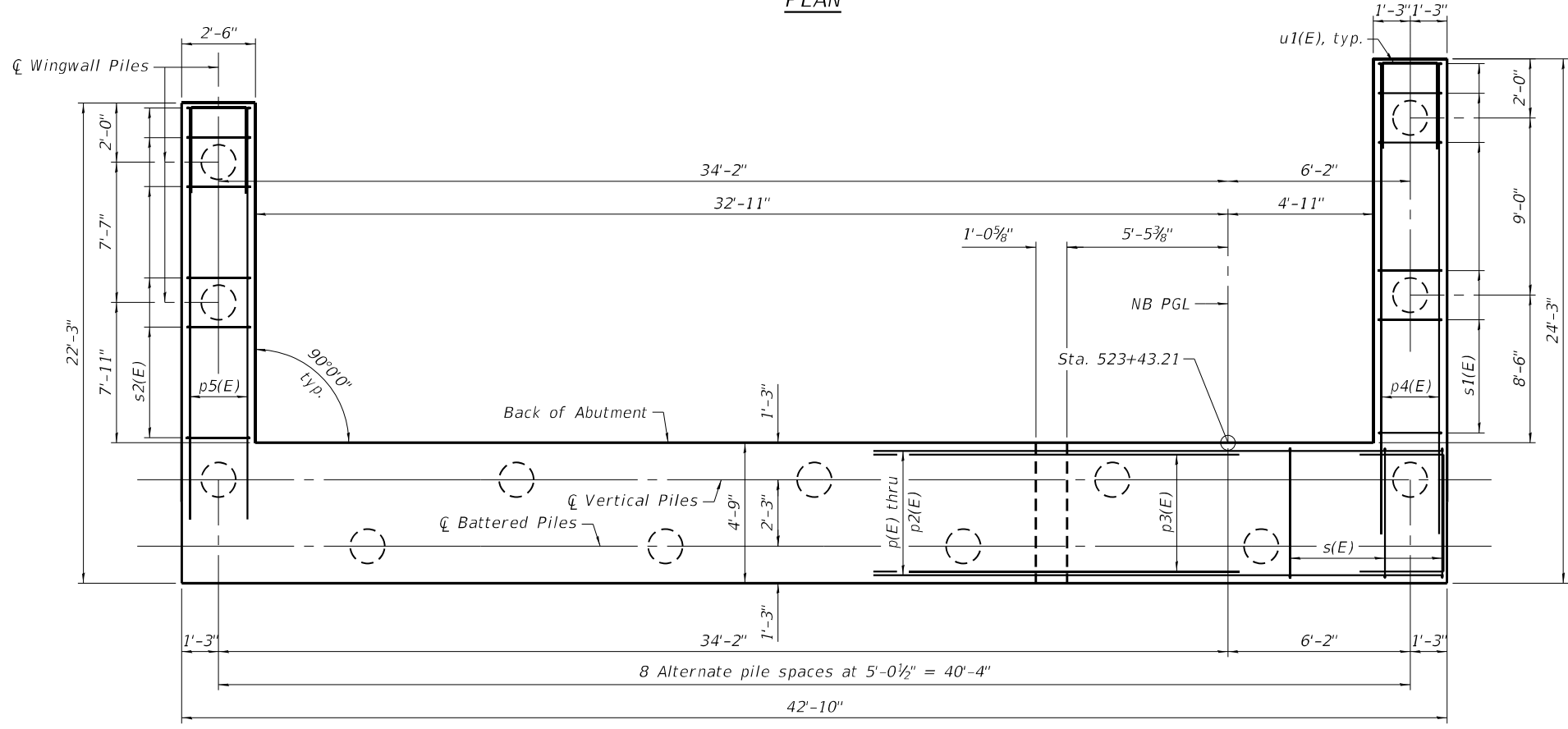
12-30-2021

(Sheet 3 of 3)

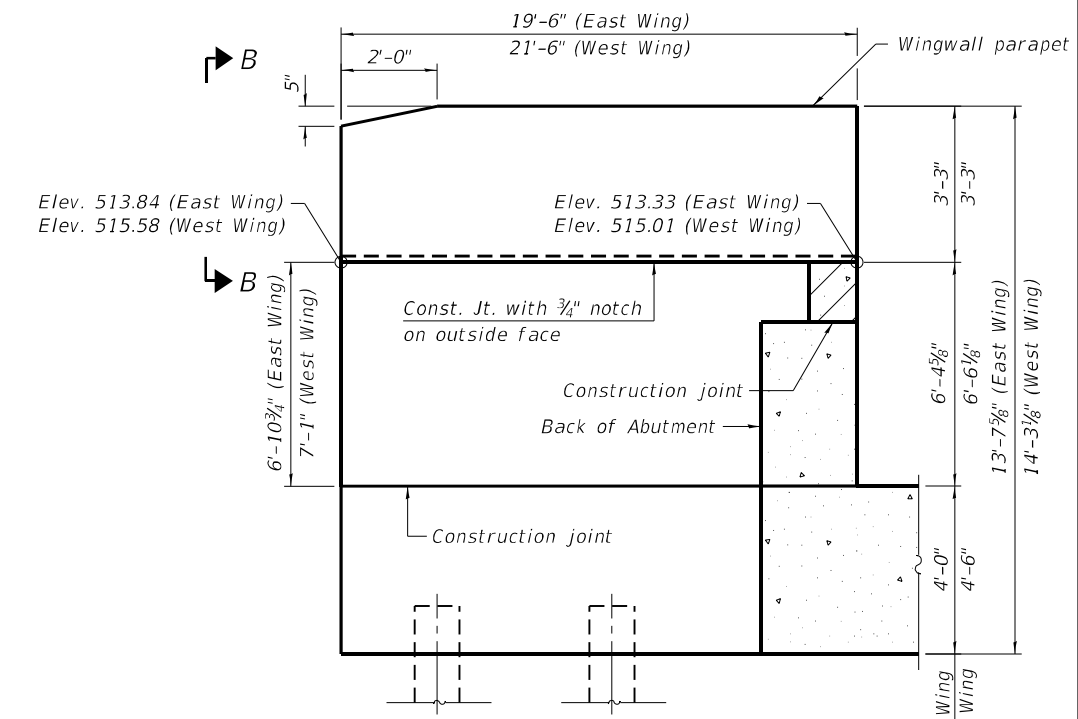
EFK•Moen Civil Engineering Design	USER NAME = ABenz	DESIGNED - CMC	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	NORTH ABUTMENT STRUCTURE NO. 006-0194 (NB)	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE =	DRAWN - CMC	REVISED -			180	(06-2B-1)ES	BUREAU	327	191
	PLOT DATE = 2/12/2024	CHECKED - ACB	REVISED -	SHEET 51 OF 80 SHEETS		ILLINOIS		FED. AID PROJECT		



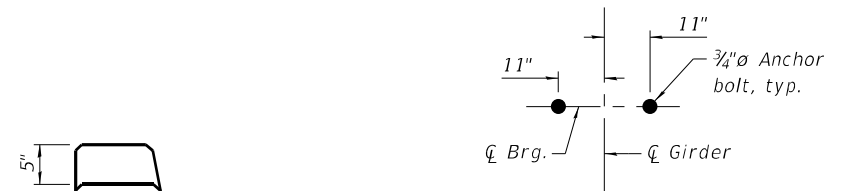
PLAN



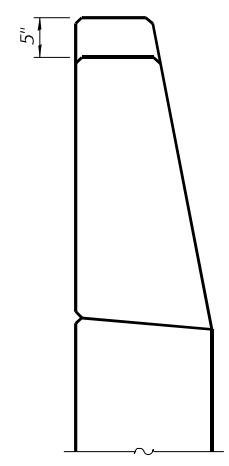
PILE CAP PLAN



SECTION A-A
(Showing dimensions)



ANCHOR BOLT LAYOUT



VIEW B-B

(Sheet 1 of 3)

MODEL: Default
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AS-39CS-0

12-30-2021

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Civil Engineering Design

USER NAME =	ABenz
PLOT SCALE =	
PLOT DATE =	2/12/2024

DESIGNED -	CMC
CHECKED -	ACB
DRAWN -	CMC
CHECKED -	ACB

REVISED -	
REVISED -	
REVISED -	
REVISED -	

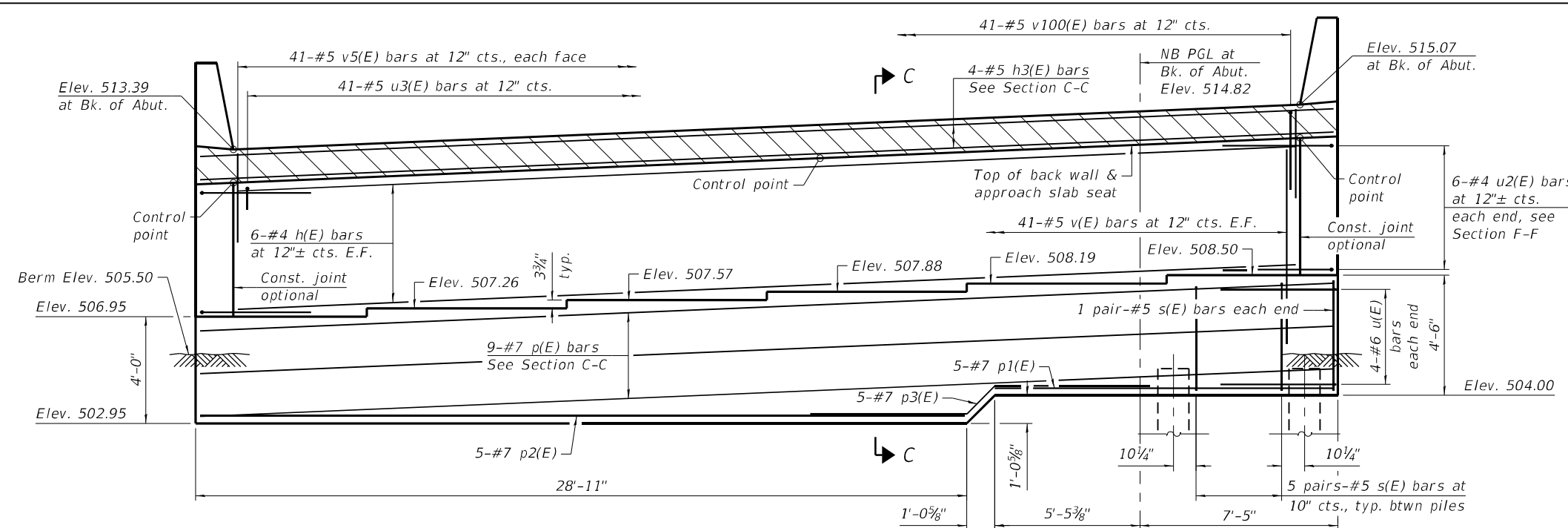
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOUTH ABUTMENT
STRUCTURE NO. 006-0194 (NB)

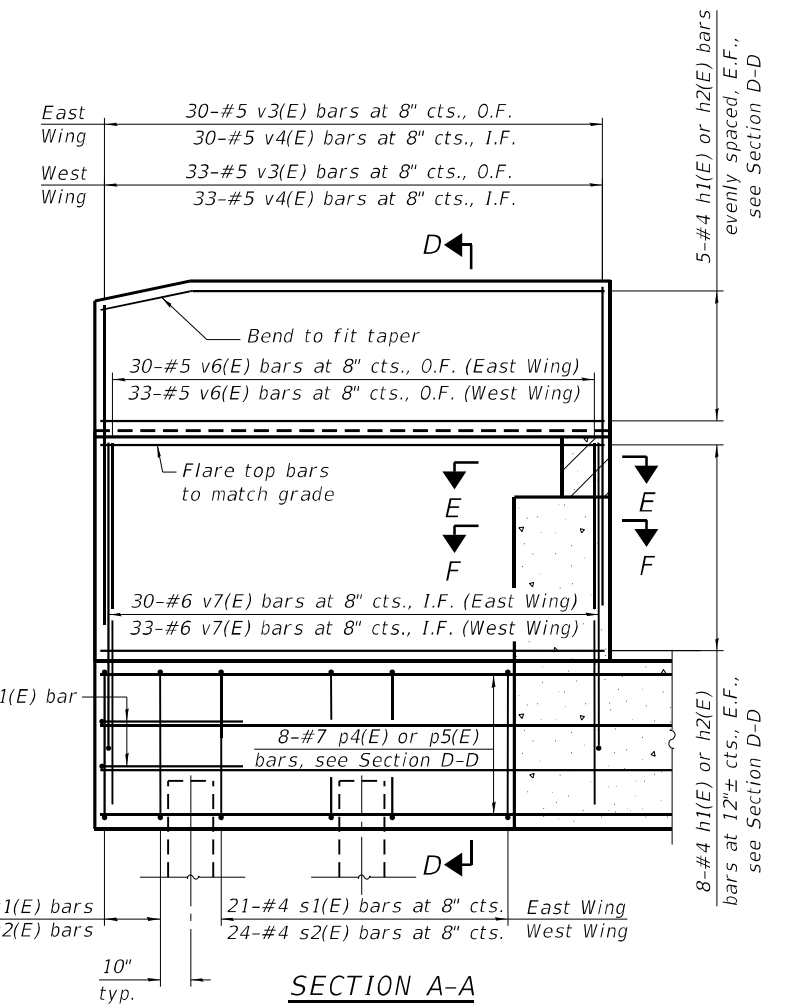
SHEET 52 OF 80 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
180	(06-2B-1)ES	BUREAU	327	192
CONTRACT NO. 66K66				
ILLINOIS FED. AID PROJECT				

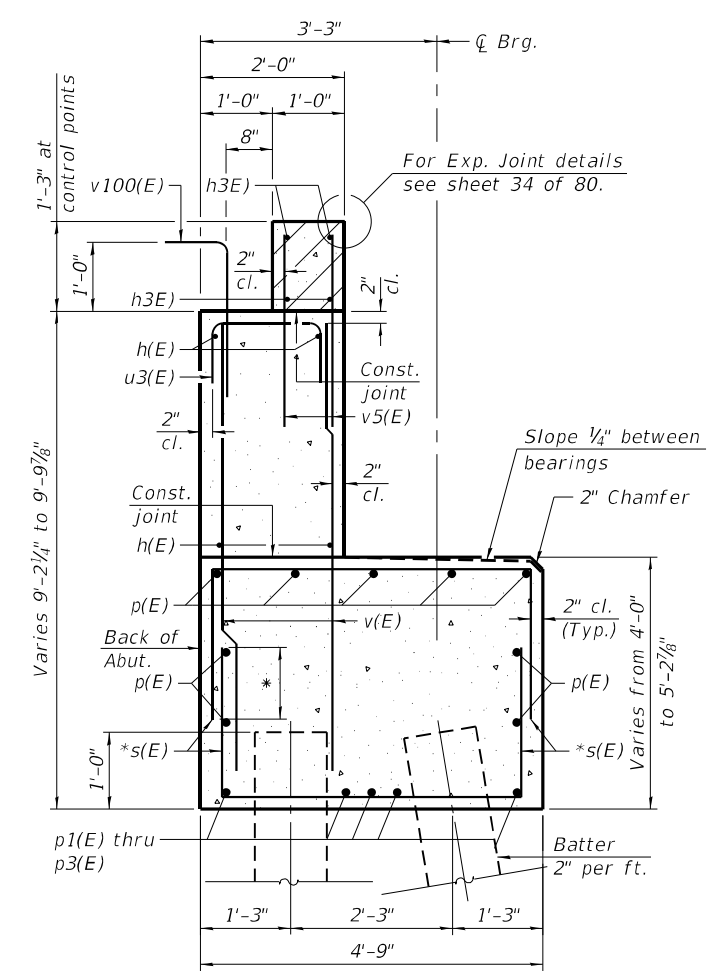
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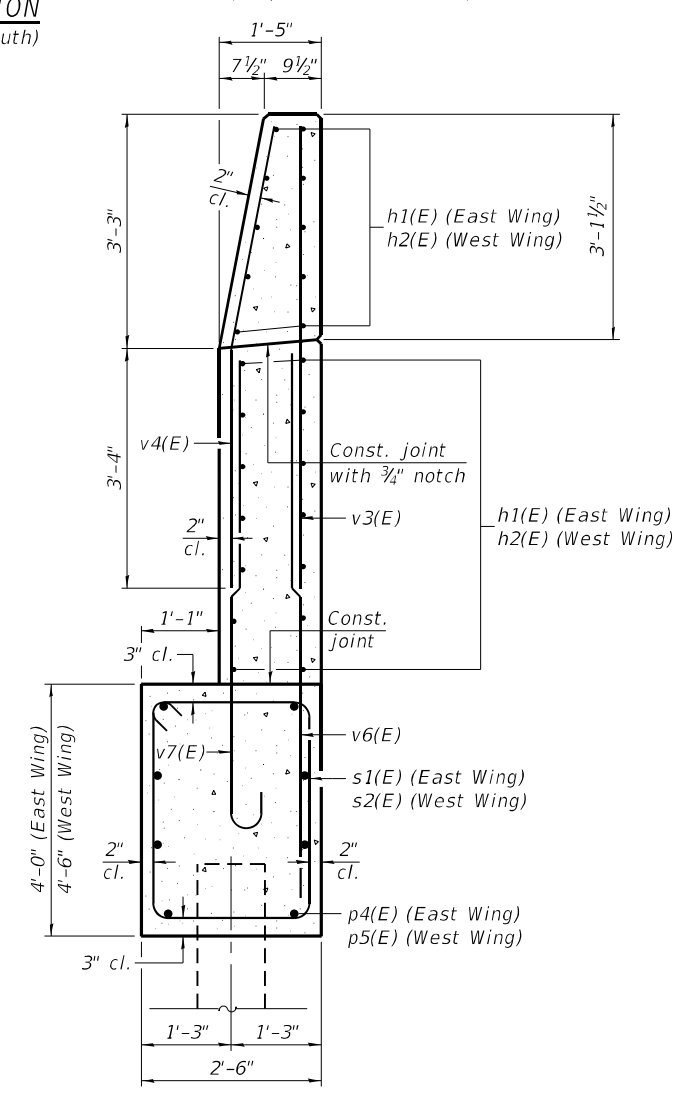
ELEVATION
(Looking South)



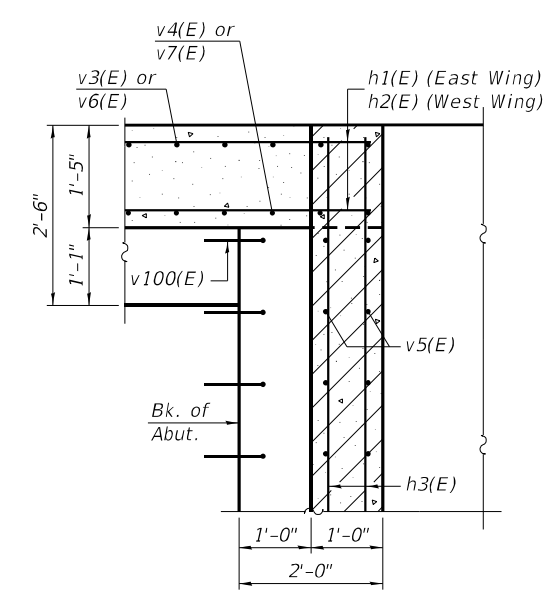
SECTION A-A
(Showing reinforcement)



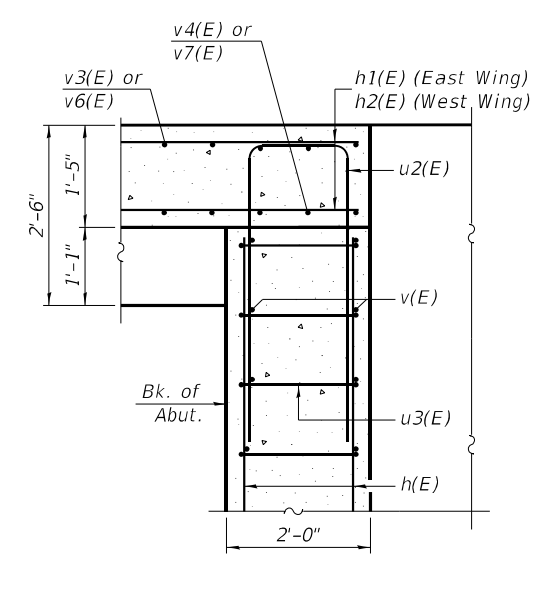
SECTION C-C * Min. Lap = 2'-9"



SECTION D-D



SECTION E-E



SECTION F-F

AS-39CS-0

12-30-2021

(Sheet 2 of 3)

EFK Moen
Civil Engineering Design

USER NAME = ABenz	DESIGNED - CMC	REVISED -
PLOT SCALE =	CHECKED - ACB	REVISED -
PLOT DATE = 2/12/2024	DRAWN - CMC	REVISED -
	CHECKED - ACB	REVISED -

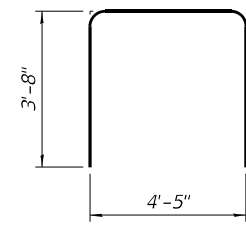
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOUTH ABUTMENT
STRUCTURE NO. 006-0194 (NB)

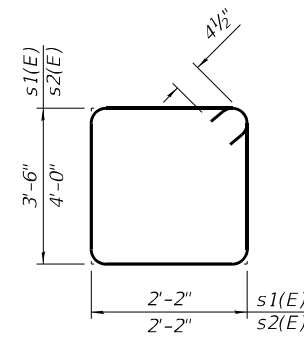
F.A.I. RTE. 180	SECTION (06-2B-1)ES	COUNTY BUREAU	TOTAL SHEETS 327	SHEET NO. 193
CONTRACT NO. 66K66				
ILLINOIS FED. AID PROJECT				

SHEET 53 OF 80 SHEETS

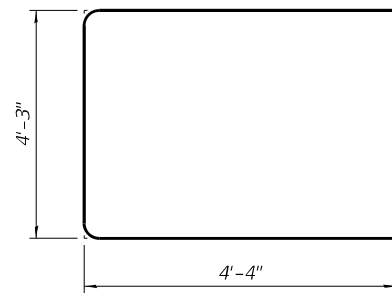
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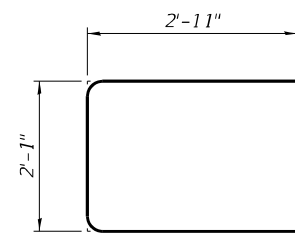
BARS s(E)



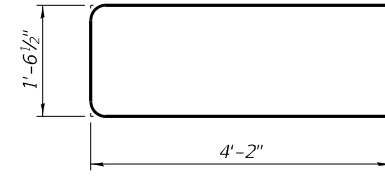
BARS s1(E) & s2(E)



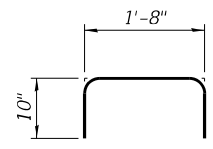
BAR u(E)



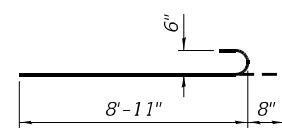
BAR u1(E)



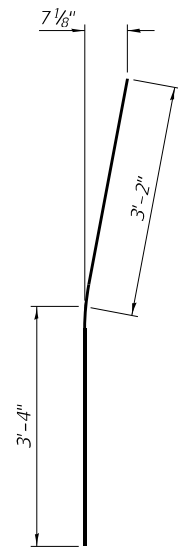
BAR u2(E)



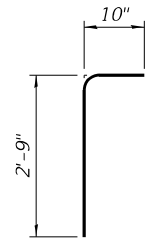
BAR u3(E)



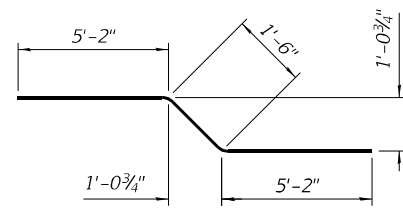
BAR v7(E)



BAR v4(E)



BAR v100(E)



BAR p3(E)

**ABUTMENT
BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
h(E)	12	#4	39'-8"	—
h1(E)	26	#4	19'-2"	—
h2(E)	26	#4	21'-2"	—
h3(E)	4	#5	42'-6"	—
p(E)	9	#7	42'-6"	—
p1(E)	5	#7	12'-8"	—
p2(E)	5	#7	28'-8"	—
p3(E)	5	#7	11'-10"	—
p4(E)	8	#7	21'-11"	—
p5(E)	8	#7	23'-11"	—
s(E)	84	#5	11'-9"	□
s1(E)	24	#4	12'-1"	□
s2(E)	27	#4	13'-1"	□
u(E)	8	#6	12'-11"	U
u1(E)	4	#4	7'-11"	U
u2(E)	12	#4	9'-11"	U
u3(E)	41	#5	3'-4"	U
v(E)	82	#5	8'-0"	—
v3(E)	63	#5	6'-4"	—
v4(E)	63	#5	6'-6"	—
v5(E)	82	#5	2'-9"	—
v6(E)	63	#5	10'-0"	—
v7(E)	63	#6	9'-7"	—
v100(E)	41	#5	3'-7"	—
Structure Excavation		Cu. Yd.	219	
Concrete Structures		Cu. Yd.	77.2	
Reinforcement Bars, Epoxy Coated		Pound	8,610	
Furnishing Metal Shell Piles, 14" X 0.312"		Foot	672	
Driving Piles		Foot	672	
Test Pile Metal Shells		Each	1	
Pile Shoes		Each	13	
Concrete Sealer		Sq. Ft.	601	

Notes:
 Hatched area to be poured separately after superstructure falsework has been removed and after approach slab side formwork has been removed.
 Quantity of concrete in wingwall parapet and hatched area included with Concrete Superstructure on sheet 28 of 80.
 Space reinforcement in cap to miss anchor bolts.
 Pour steps monolithically with cap.
 For details of piles, see sheet 59 of 80.
 The top of back wall and approach slab seat shall have a constant slope determined from the control points shown.
 Concrete Sealer shall be applied to the bearing seats and front faces of the hatched block, back wall, and abutment cap.

PILE DATA

Type: Metal Shell Piles, 14" X 0.312" with pile shoes
 Nominal Required Bearing: 567 kips
 Factored Resistance Available: 312 kips
 Est. Length: 56 feet
 No. Production Piles: 12
 No. Test Piles: 1

AS-39CS-0

12-30-2021

(Sheet 3 of 3)



USER NAME = ABenz	DESIGNED - CMC	REVISED -
PLOT SCALE =	CHECKED - ACB	REVISED -
PLOT DATE = 2/12/2024	DRAWN - CMC	REVISED -
	CHECKED - ACB	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

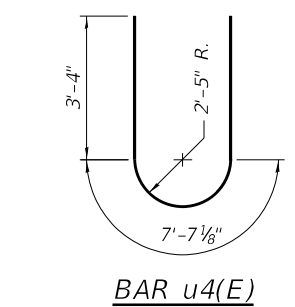
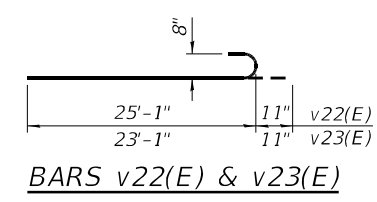
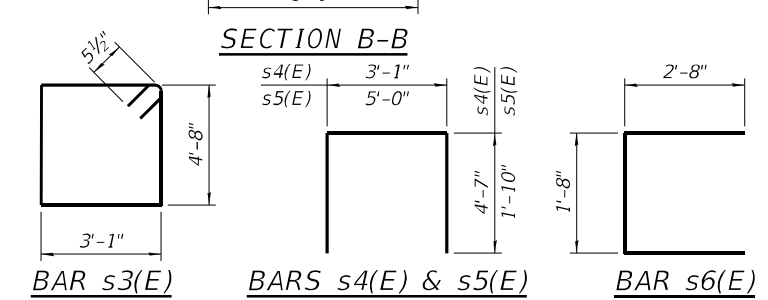
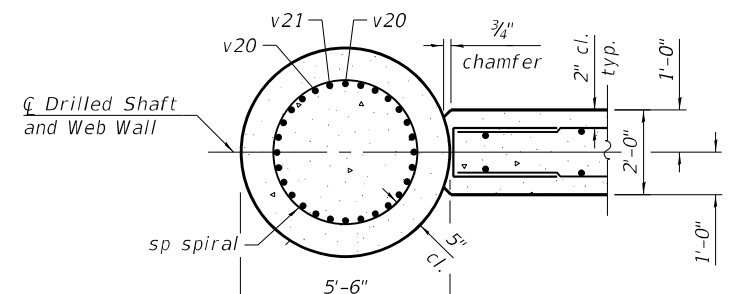
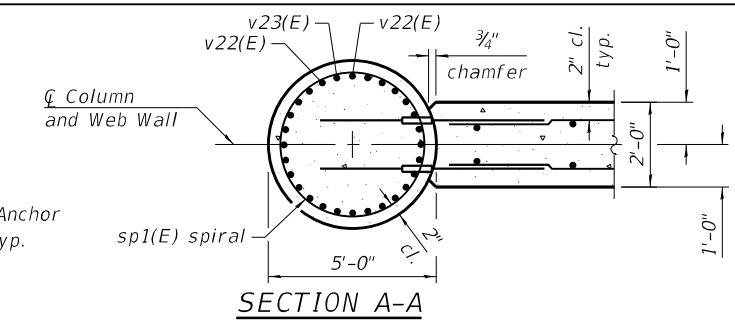
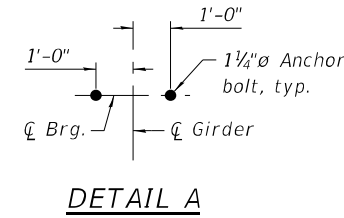
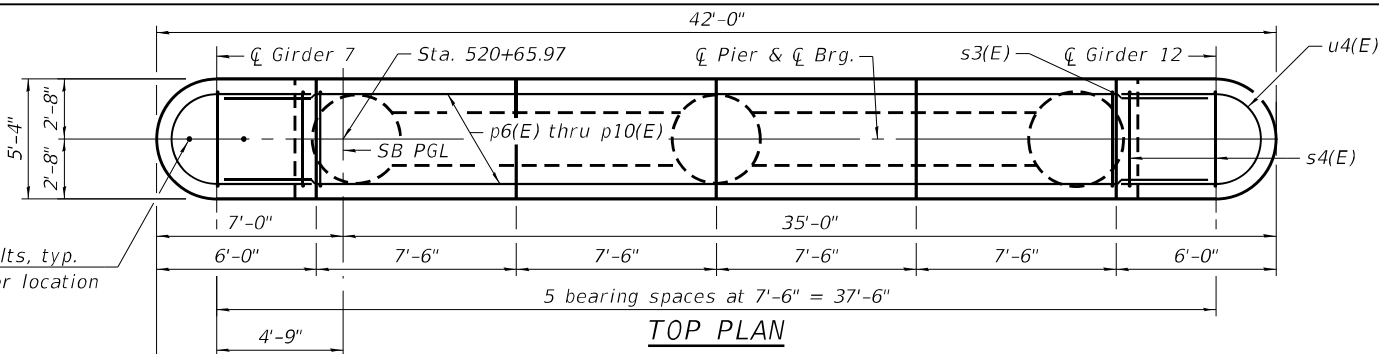
**SOUTH ABUTMENT
STRUCTURE NO. 006-0194 (NB)**

SHEET 54 OF 80 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
180	(06-2B-1)ES	BUREAU	327	194
ILLINOIS FED. AID PROJECT CONTRACT NO. 66K66				

Notes:
 Space reinforcement in cap to miss anchor bolts.
 Pour steps monolithically with cap.
 Minimum lap for spirals = 3'-8".

1 1/4" dia Anchor bolts, typ.
 See Detail A for location



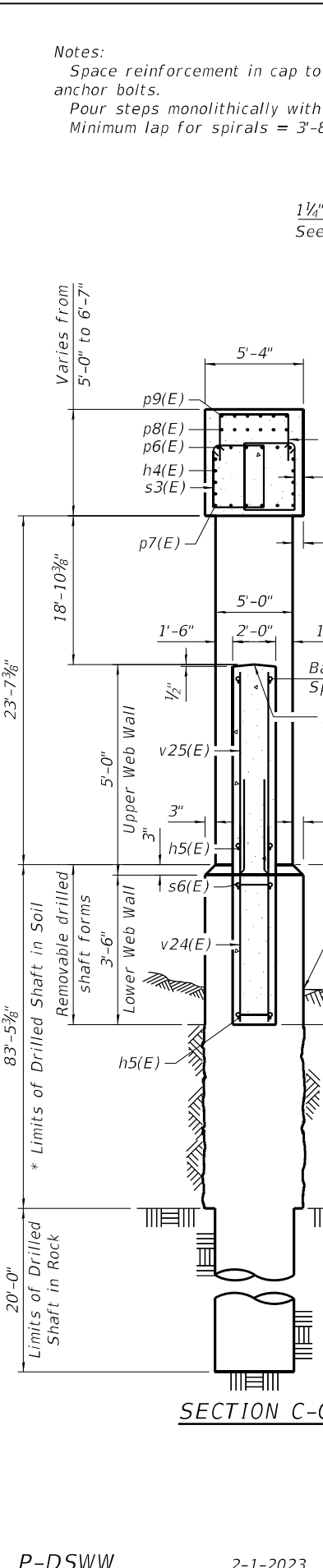
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h4(E)	8	#6	37'-5"	—
h5(E)	36	#5	8'-7"	—
p6(E)	6	#9	37'-5"	—
p7(E)	6	#9	34'-10"	—
p8(E)	6	#6	25'-8"	—
p9(E)	6	#6	10'-8"	—
p10(E)	12	#9	3'-8"	—
s3(E)	70	#5	16'-5"	□
s4(E)	8	#5	12'-3"	U
s5(E)	27	#4	8'-8"	U
s6(E)	16	#5	7'-0"	U
sp	3	#6	103'-3"	~
sp1(E)	3	#6	23'-8"	~
u4(E)	14	#5	14'-3"	U
v20	102	#11	52'-8"	—
v21	102	#11	53'-8"	—
v22(E)	51	#8	26'-0"	—
v23(E)	51	#8	24'-0"	—
v24(E)	40	#5	6'-2"	—
v25(E)	40	#5	4'-8"	—
Structure Excavation		Cu. Yd.	15	
Concrete Structures		Cu. Yd.	104.9	
Reinforcement Bars		Pound	71,480	
Reinforcement Bars, Epoxy Coated		Pound	16,780	
Drilled Shaft in Soil		Cu. Yd.	220.3	
Drilled Shaft in Rock		Cu. Yd.	43.7	
Crosshole Sonic Logging Access Ducts		Foot	311	
Crosshole Sonic Logging Testing		Each	3	

- Construction Sequence for Web Wall:**
- Excavate between shafts to elevation of web wall base.
 - Set lower web wall forms through water to bear on the circular edge of drilled shafts and secure in place with fill, struts or tie forms together as required.
 - Place the lower web wall reinforcement cage into the forms using spacers to maintain proper clearances.
 - If the forms can be sealed against the shafts and streambed to allow dewatering, the reinforcement and the concrete placement may be completed in the dry. Alternatively, the rebar cage can be lowered into position through water and the concrete discharged at the base of the excavation through a tremie pipe or pump hose, displacing water, sediment, and tainted concrete out the top of the forms.
 - Construct Columns.
 - Construct upper web walls.

** Length is height of spiral.

* If the prevailing water surface elevation during construction is consistently different than estimated on the plans, the contractor may propose an adjustment to the top of the drilled shaft elevation as part of their installation procedure. The top of all drilled shafts within a substructure unit shall be constructed to the same elevation and extend above the prevailing water surface. The quantities and reinforcement detailing are based on the top of shaft and the estimated elevations shown and may change based on the actual elevations encountered at each shaft and the final top of shaft elevation.



ELEVATION
 (Looking South)

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 P-DSWW 2-1-2023
 2/12/2024 10:37:47 AM

EFK Moen
 Civil Engineering Design

USER NAME = ABenz	DESIGNED - CMC	REVISIONS -
PLOT SCALE =	CHECKED - ACB	REVISIONS -
PLOT DATE = 2/12/2024	DRAWN - CMC	REVISIONS -
	CHECKED - ACB	REVISIONS -

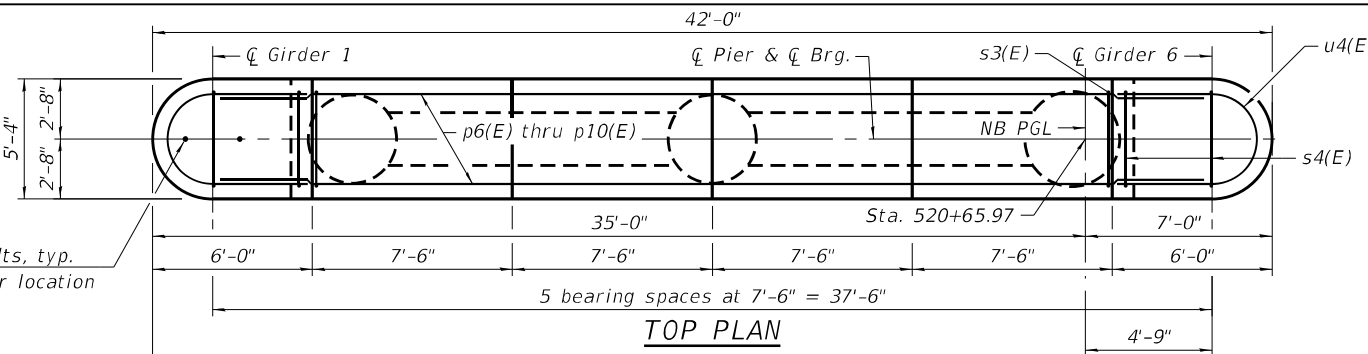
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PIER 1 DETAILS
STRUCTURE NO. 006-0193 (SB)

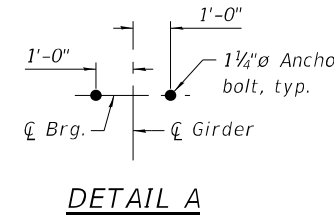
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
180	(06-2B-1)ES	BUREAU	327	195
CONTRACT NO. 66K66				
ILLINOIS FED. AID PROJECT				

Notes:
 Space reinforcement in cap to miss anchor bolts.
 Pour steps monolithically with cap.
 Minimum lap for spirals = 3'-8".

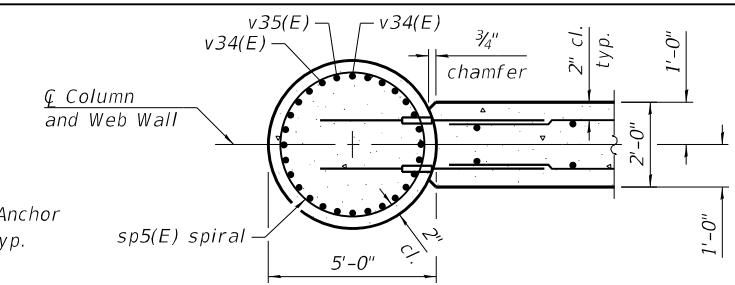
1 1/4" dia Anchor bolts, typ.
 See Detail A for location



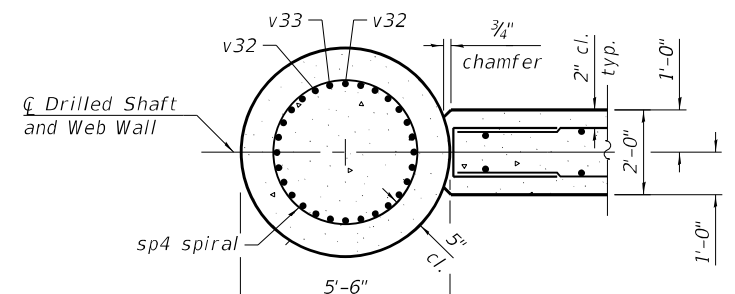
TOP PLAN



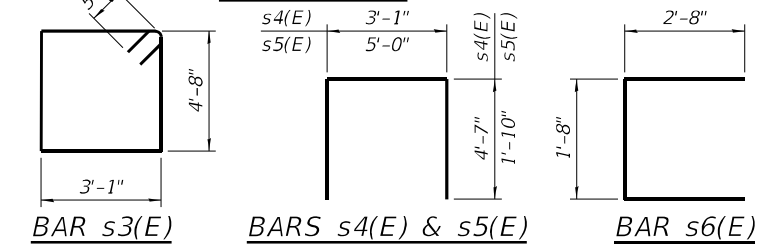
DETAIL A



SECTION A-A



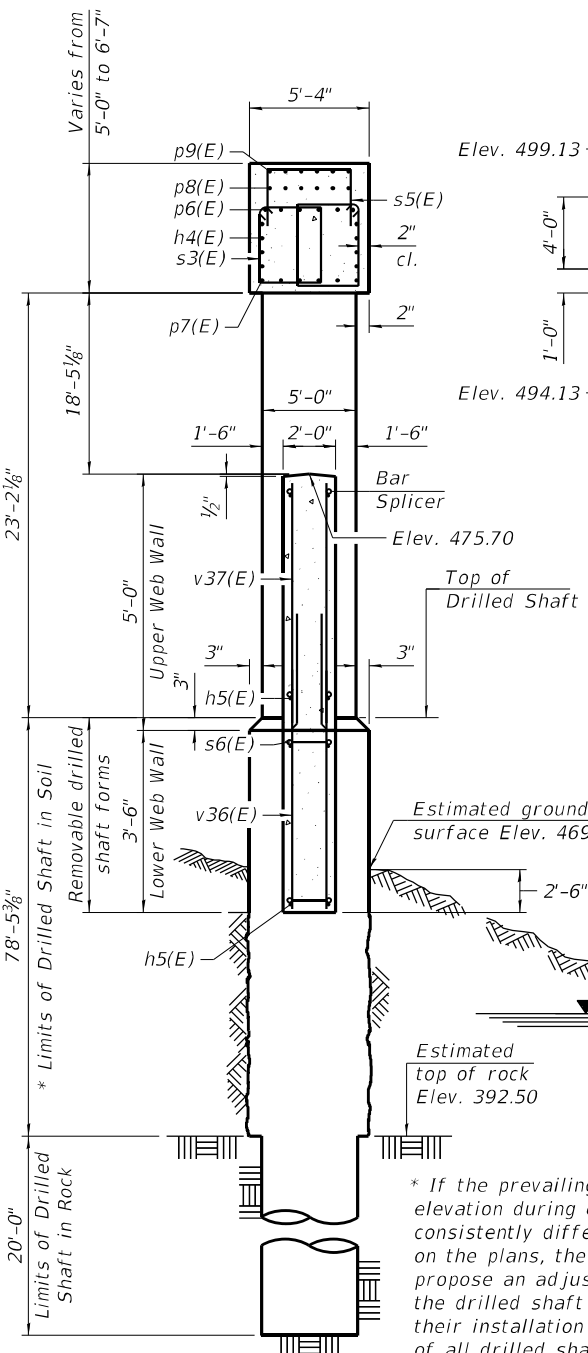
SECTION B-B



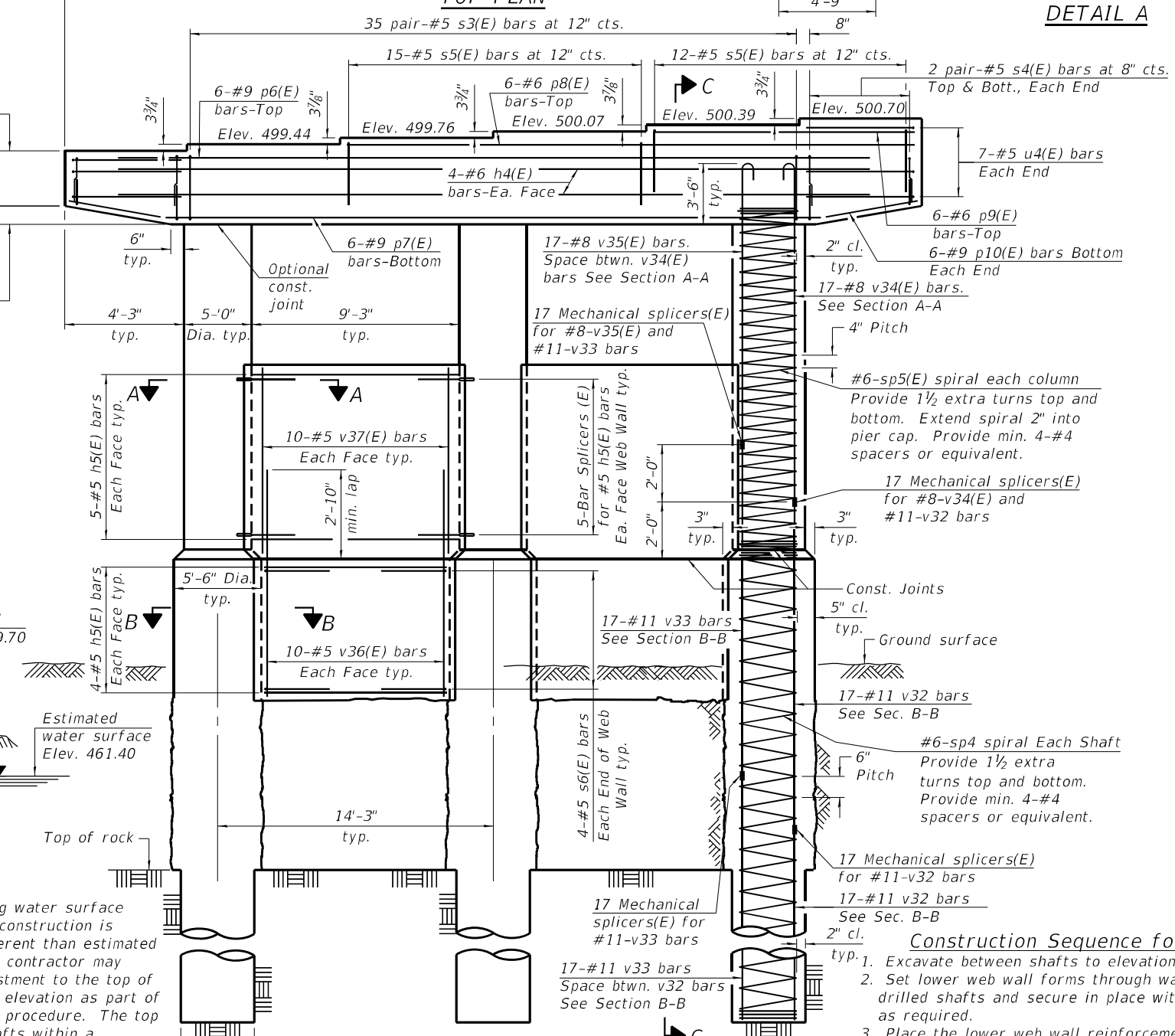
BAR s3(E)

BARS s4(E) & s5(E)

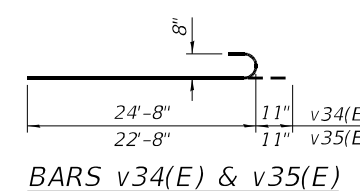
BAR s6(E)



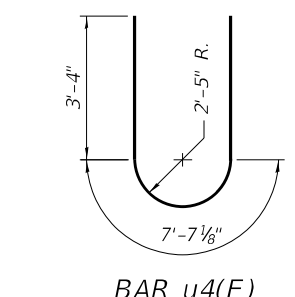
SECTION C-C



ELEVATION
(Looking South)



BARS v34(E) & v35(E)



BAR u4(E)

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h4(E)	8	#6	37'-5"	—
h5(E)	36	#5	8'-7"	—
p6(E)	6	#9	37'-5"	—
p7(E)	6	#9	34'-10"	—
p8(E)	6	#6	25'-8"	—
p9(E)	6	#6	10'-8"	—
p10(E)	12	#9	3'-8"	—
s3(E)	70	#5	16'-5"	□
s4(E)	8	#5	12'-3"	□
s5(E)	27	#4	8'-8"	□
s6(E)	16	#5	7'-0"	□
sp4	3	#6	98'-3"	⌘
sp5(E)	3	#6	23'-3"	⌘
u4(E)	14	#5	14'-3"	U
v32	102	#11	50'-2"	—
v33	102	#11	51'-2"	—
v34(E)	51	#8	25'-7"	—
v35(E)	51	#8	23'-7"	—
v36(E)	40	#5	6'-2"	—
v37(E)	40	#5	4'-8"	—
Structure Excavation		Cu. Yd.	15	
Concrete Structures		Cu. Yd.	104.0	
Reinforcement Bars		Pound	68,110	
Reinforcement Bars, Epoxy Coated		Pound	16,770	
Drilled Shaft in Soil		Cu. Yd.	207.1	
Drilled Shaft in Rock		Cu. Yd.	43.7	
Crosshole Sonic Logging Access Ducts		Foot	296	
Crosshole Sonic Logging Testing		Each	3	

- Construction Sequence for Web Wall:**
1. Excavate between shafts to elevation of web wall base.
 2. Set lower web wall forms through water to bear on the circular edge of drilled shafts and secure in place with fill, struts or tie forms together as required.
 3. Place the lower web wall reinforcement cage into the forms using spacers to maintain proper clearances.
 4. If the forms can be sealed against the shafts and streambed to allow dewatering, the reinforcement and the concrete placement may be completed in the dry. Alternatively, the rebar cage can be lowered into position through water and the concrete discharged at the base of the excavation through a tremie pipe or pump hose, displacing water, sediment, and tainted concrete out the top of the forms.
 5. Construct Columns.
 6. Construct upper web walls.

** Length is height of spiral.

* If the prevailing water surface elevation during construction is consistently different than estimated on the plans, the contractor may propose an adjustment to the top of the drilled shaft elevation as part of their installation procedure. The top of all drilled shafts within a substructure unit shall be constructed to the same elevation and extend above the prevailing water surface. The quantities and reinforcement detailing are based on the top of shaft and the estimated elevations shown and may change based on the actual elevations encountered at each shaft and the final top of shaft elevation.

P-DSWW

2-1-2023

EFK Moen
Civil Engineering Design

USER NAME = ABenz
 PLOT SCALE =
 PLOT DATE = 2/12/2024

DESIGNED - CMC
 CHECKED - ACB
 DRAWN - CMC
 CHECKED - ACB

REVISED -
 REVISED -
 REVISED -
 REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

PIER 1 DETAILS
 STRUCTURE NO. 006-0194 (NB)

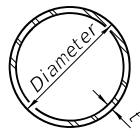
SHEET 57 OF 80 SHEETS

F.A.I. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
180	(06-2B-1)ES	BUREAU	327	197

CONTRACT NO. 66K66

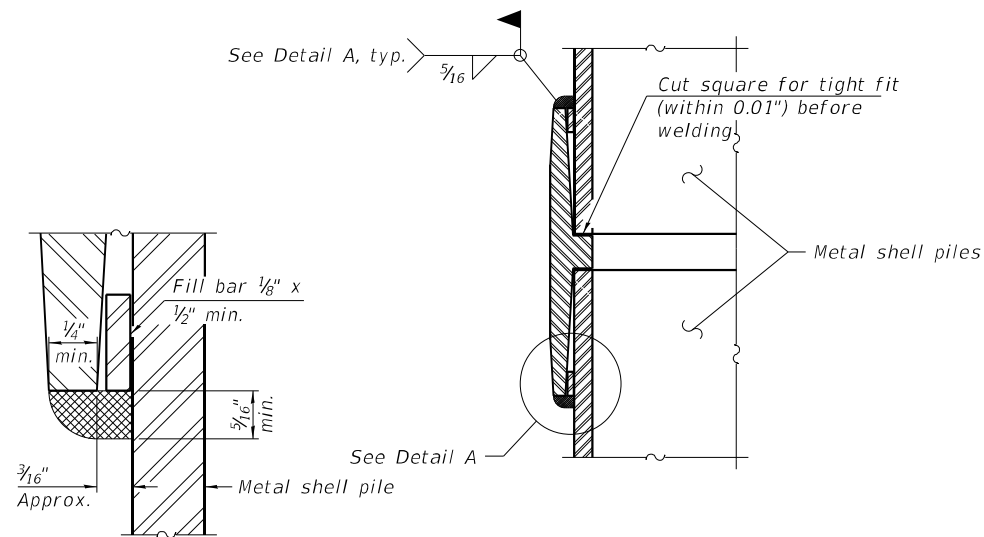
ILLINOIS FED. AID PROJECT

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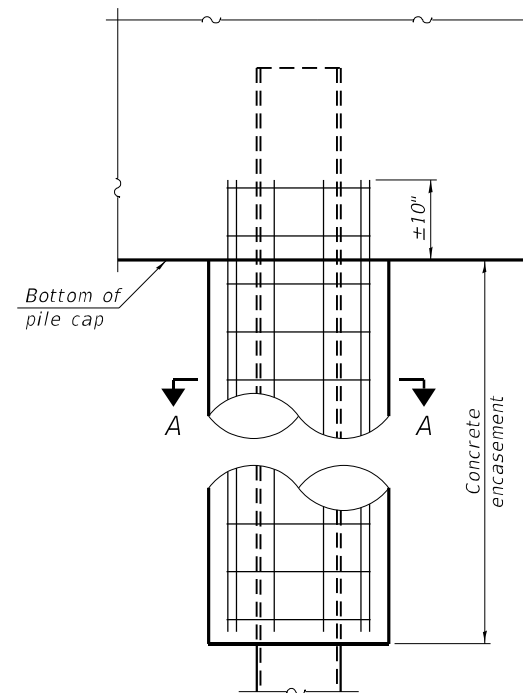


METAL SHELL PILE TABLE

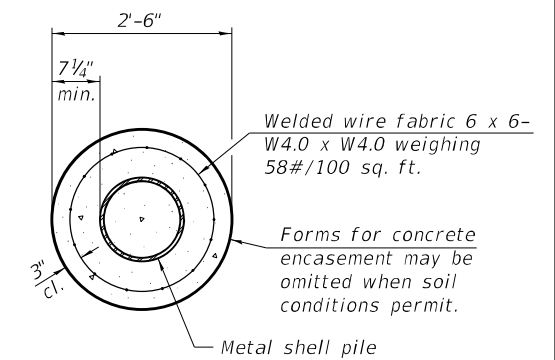
Designation and outside diameter	Wall thickness t	Weight per foot (Lbs./ft.)	Inside volume (yd. ³ /ft.)
PP12	0.250"	31.40	0.0267
PP14	0.250"	36.75	0.0368
PP14	0.312"	45.65	0.0361
PP16	0.312"	52.32	0.0478
PP16	0.375"	62.64	0.0470



DETAIL A

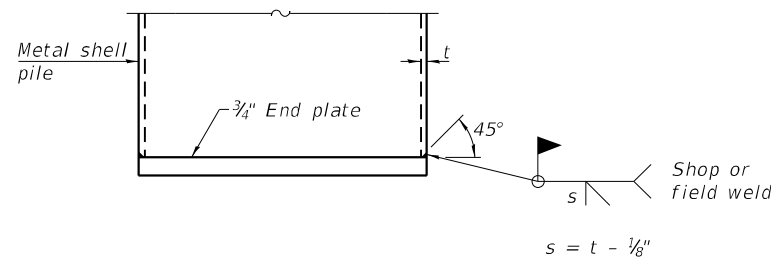


ELEVATION



SECTION A-A

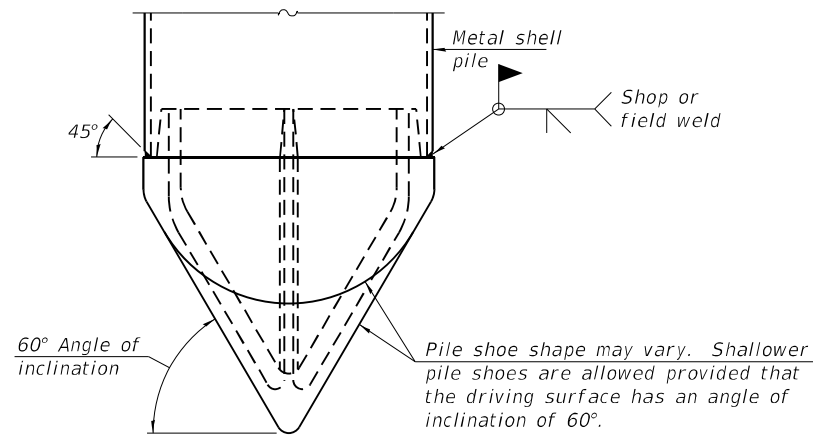
INDIVIDUAL PILE CONCRETE ENCASUREMENT
(When specified)



END PLATE ATTACHMENT

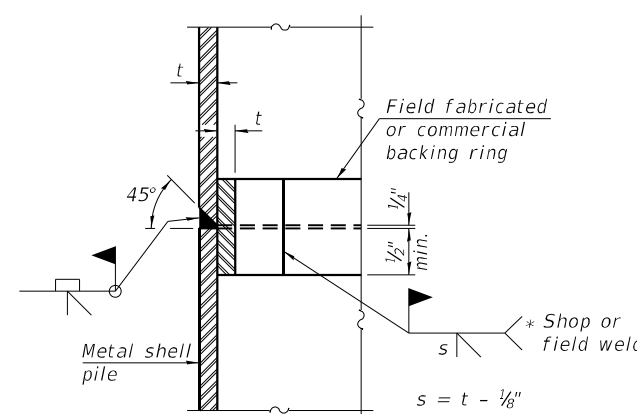
WELDED COMMERCIAL SPLICE

Notes:
The 1/8" x 1/2" min. fill bar may be constructed of 2 bars with a 1/8" max. gap between them.
Pile segments shall be driven to solid contact with splicer before welding.



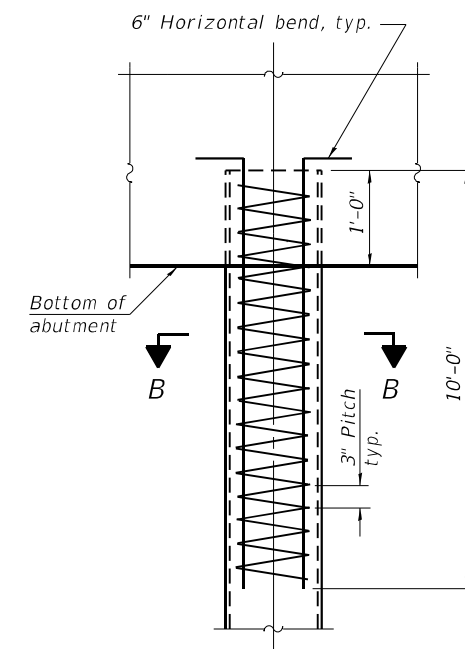
PILE SHOE ATTACHMENT

(When called for on the plans, the Contractor shall furnish metal shell pile shoes consisting of a single piece conical pile point as shown. The pile shoes shall be cast in one piece steel according to either ASTM A 148 Grade 80-50 or AASHTO M 103 Grade 65-35 and shall provide full bearing over the full circumference of the metal shell pile. The pile shoe shall have tapered leads to assure proper alignment and fitting and shall be secured to the pile with a circumferential weld).



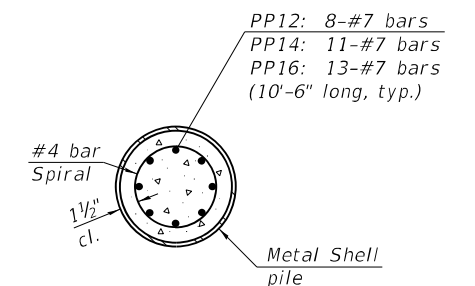
COMPLETE PENETRATION WELD SPLICE

* Field fabricated backing ring may be made from pile shell by removing segment to allow reducing circumference and vertically rejoin with partial joint penetration weld.



ELEVATION

REINFORCEMENT AT ABUTMENTS
(Omit when concrete encasement is specified)



SECTION B-B

Note:
The metal shell piles shall be according to Article 1006.05 of the Standard Specifications.

MODEL: Default
FILE NAME: \\SERVER18\Projects\54\22057.08 IDOT D3 PTB 204-028 WO 08 1-180 over Bureau Creek\DGN\Bridges\Final\Plotsheets\006-0193&0194-66K66-059-Piles.dgn

F-MS 2-1-2023

EFK Moen
Civil Engineering Design

USER NAME =	ABenz
PLOT SCALE =	
PLOT DATE =	2/12/2024

DESIGNED -	CMC
CHECKED -	ACB
DRAWN -	CMC
CHECKED -	ACB

REVISED -	
REVISED -	
REVISED -	
REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

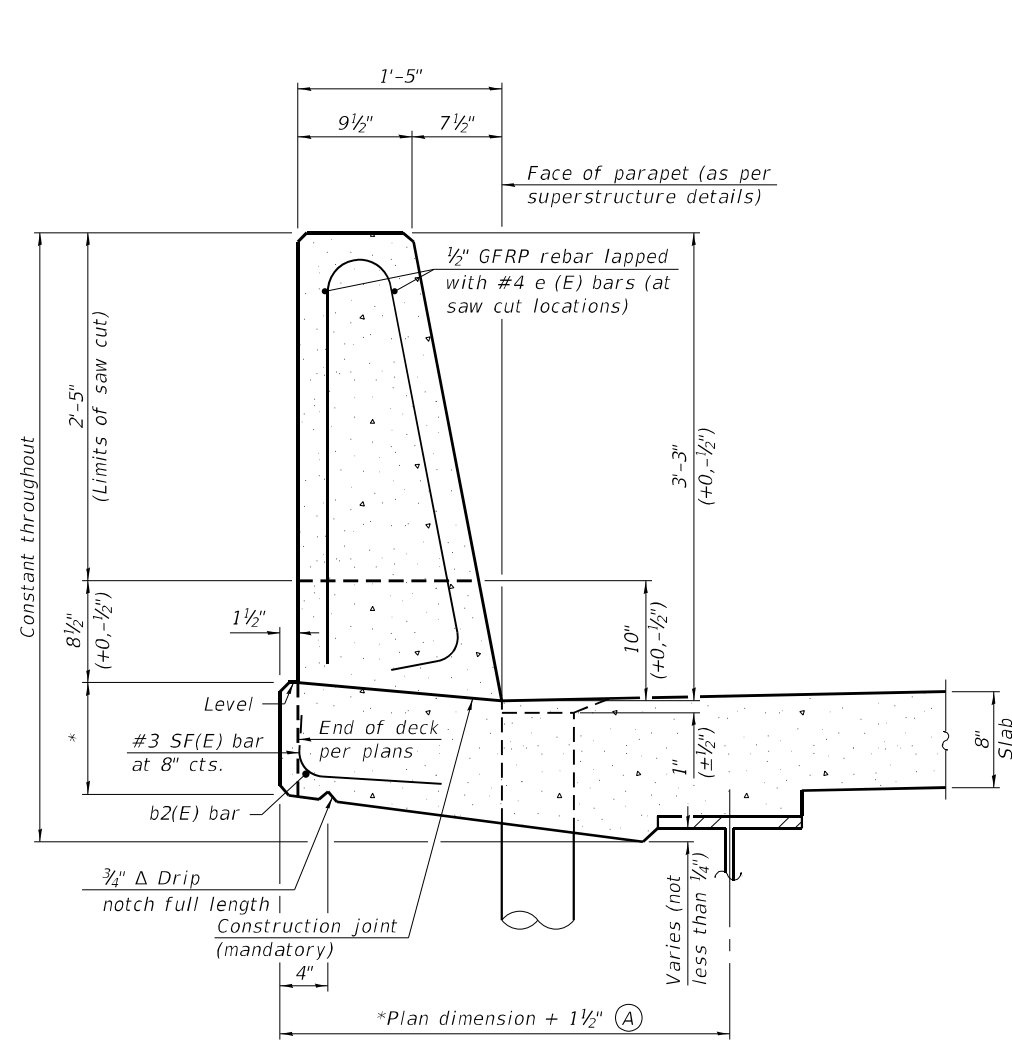
METAL SHELL PILE DETAILS
STRUCTURE NO. 006-0193 (SB) & 006-0194 (NB)

SHEET 59 OF 80 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
180	(06-2B-1)ES	BUREAU	327	199
CONTRACT NO. 66K66				

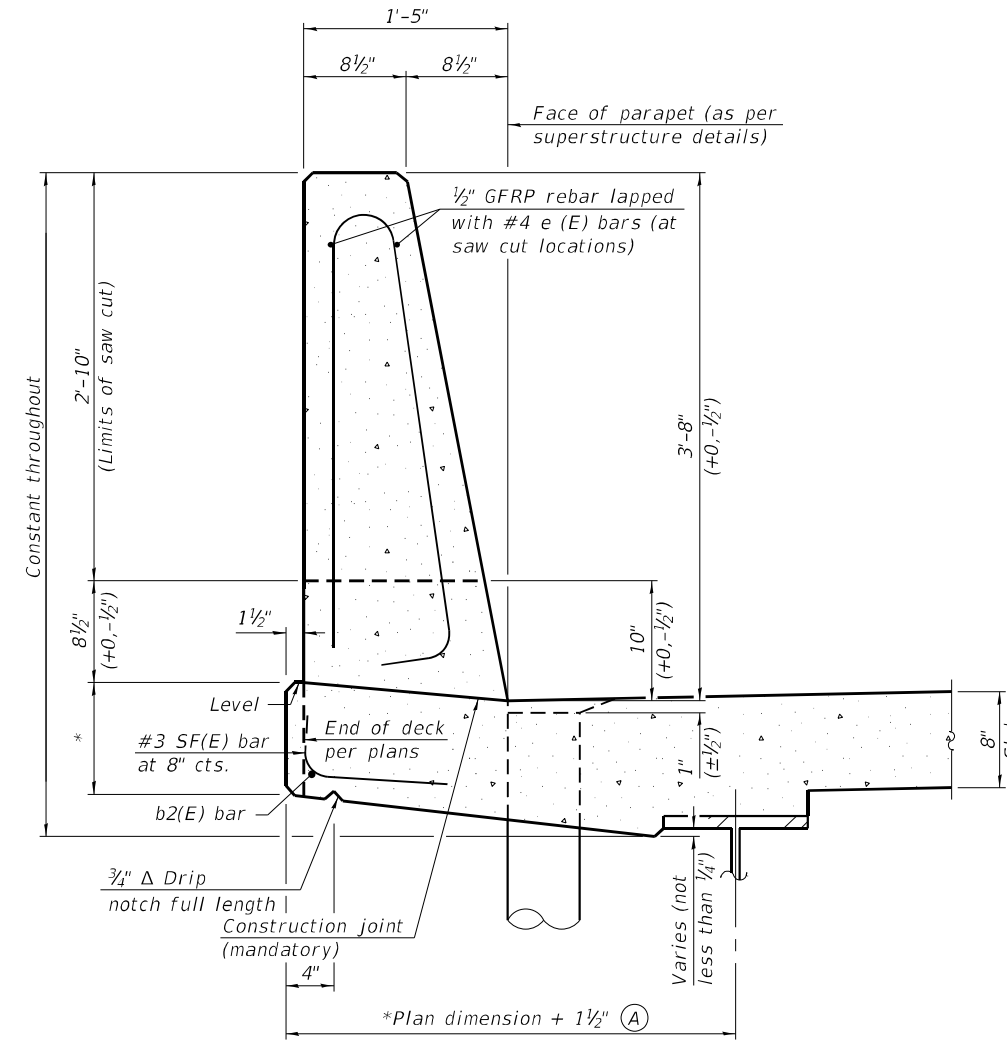
ILLINOIS FED. AID PROJECT

MODEL: Default
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**39" CONSTANT-SLOPE
 PARAPET SECTION**

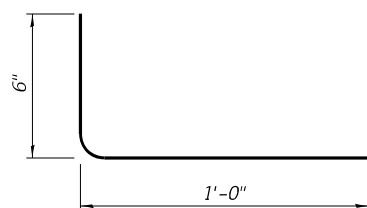
(Showing dimensions, d(E), and 1/2" Ø GFRP rebar)



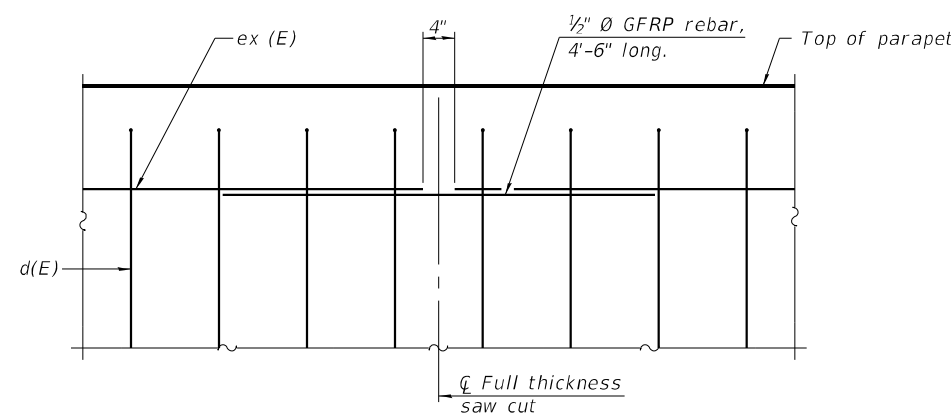
**44" CONSTANT-SLOPE
 PARAPET SECTION**

(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.

SFP 39-44

11-1-2022

EFK Moen
 Civil Engineering Design

USER NAME = ABenz	DESIGNED - CMC	REVISED -
PLOT SCALE =	CHECKED - ACB	REVISED -
PLOT DATE = 2/12/2024	DRAWN - CMC	REVISED -
	CHECKED - ACB	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**CONCRETE PARAPET SLIPFORMING OPTION
 STRUCTURE NO. 006-0193 (SB) & 006-0194 (NB)**

SHEET 60 OF 80 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
180	(06-2B-1)ES	BUREAU	327	200
CONTRACT NO. 66K66				

ILLINOIS FED. AID PROJECT