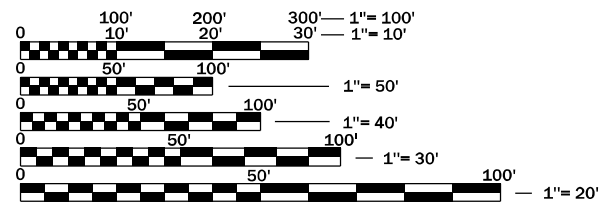


INDEX OF SHEETS

- 1. COVER SHEET
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- 3 - 5. SUMMARY OF QUANTITIES
- 6. TYPICAL SECTIONS
- 7 - 8. SCHEDULES
- 9 - 11. TRAFFIC CONTROL AND PROTECTION, STANDARD 701321
- 12. TEMPORARY INFORMATION SIGNING
- 13. PAVEMENT MARKING
- 14. MISCELLANEOUS DETAILS
- 15 - 16. SHOULDER RECONSTRUCTION DETAILS
- 17 - 29. STRUCTURE NO. 053-0627 REPAIR PLANS
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HIGHWAY STANDARDS

- 000001-08 STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
- 001001-02 AREAS OF REINFORCEMENT BARS
- 001006 DECIMAL OF AN INCH AND OF A FOOT
- 482006-03 HMA SHOULDER ADJACENT TO RIGID PAVEMENT
- 630001-12 STEEL PLATE BEAM GUARDRAIL
- 631031-18 TRAFFIC BARRIER TERMINAL, TYPE 6
- 701001-02 OFF-ROAD OPERATIONS 2L, 2W, MORE THAN 15' AWAY
- 701006-05 OFF-ROAD OPERATIONS 2L, 2W, 15' TO 24" FROM PAVEMENT EDGE
- 701201-05 LANE CLOSURE, 2L, 2W, DAY ONLY, FOR SPEEDS ≥ 45 MPH
- 701301-04 LANE CLOSURE, 2L, 2W. SHORT TIME OPERATIONS
- 701306-04 LANE CLOSURE, 2L, 2W. SLOW MOVING OPERATIONS DAY ONLY FOR SPEEDS FOR SPEEDS ≥ 45 MPH
- 701311-03 LANE CLOSURE, 2L, 2W, MOVING OPERATIONS - DAY ONLY
- 701321-18 LANE CLOSURE, 2L, 2W. BRIDGE REPAIR, WITH BARRIER
- 701901-08 TRAFFIC CONTROL DEVICES
- 704001-08 TEMPORARY CONCRETE BARRIER
- 782006-01 GUARDRAIL AND BARRIER WALL REFLECTOR MOUNTING DETAILS



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

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

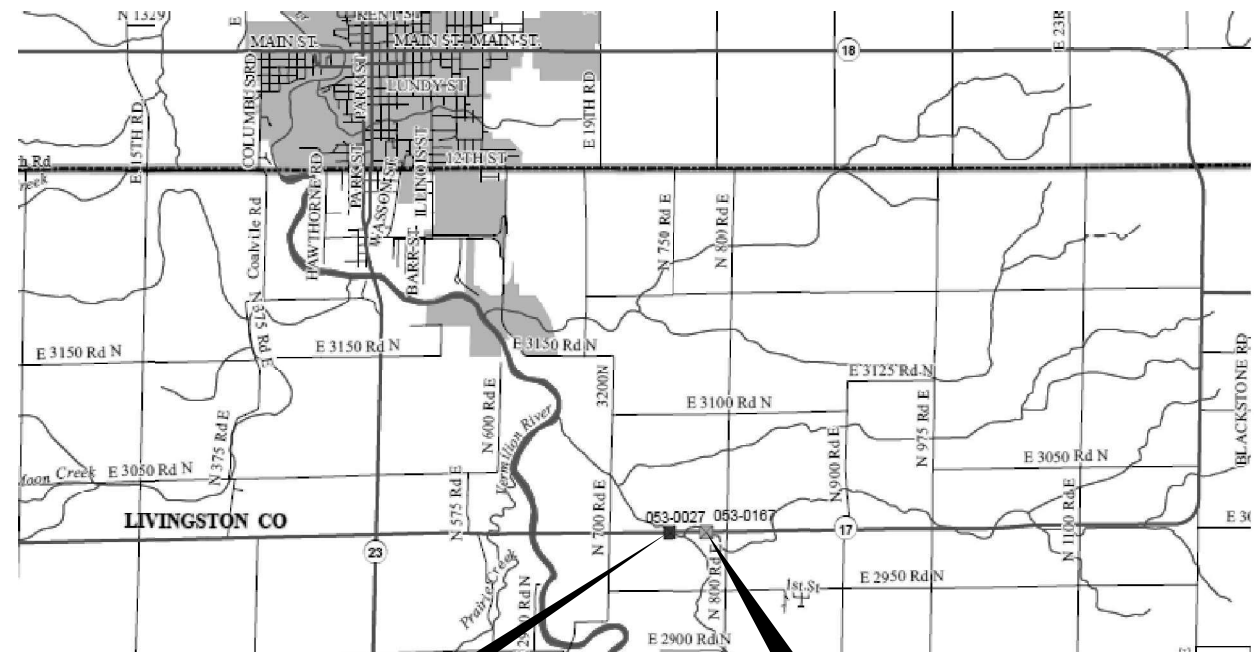
PROJECT ENGINEER: YOGESH PATEL P.E.
UNIT CHIEF: RON WOODSHANK
DISTRICT 3 NO. (815) 434-6131
CONTRACT NO. 66M75

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED
HIGHWAY PLANS

F.A.P. ROUTE 649 (IL 17)
SECTION ((108BR-2,108BR-3)BRR
BRIDGE REPAIRS
LIVINGSTON COUNTY

C-93-102-22



PROJECT LOCATION 1

STRUCTURE NO. 053-0027
(STA. 462+60.00)
CARRYING FAP 649 (IL 17)
OVER A DRAINAGE DITCH
2.5 MI. EAST OF JUNCTION IL 17 & IL 23

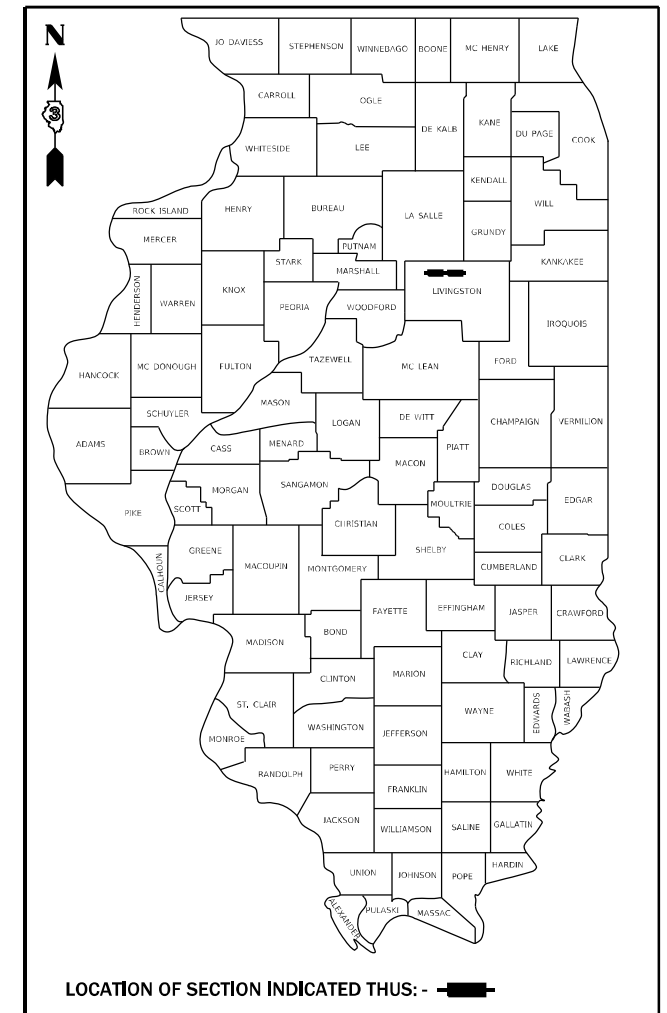
PROJECT LOCATION 2

STRUCTURE NO. 053-0167
(STA. 480+15.00)
CARRYING FAP ROUTE 649 (IL 17)
OVER A DRAINAGE DITCH
2.8 MILES EAST OF JUNCTION IL 17 & IL 23

POINT LOCATIONS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
649	(108BR-2, 108BR-3)BRR	LIVINGSTON	42	1
		ILLINOIS	CONTRACT NO. 66M75	

D-93-081-22



FUNCTIONAL CLASSIFICATION

RURAL MAJOR COLLECTOR

F.A.P. ROUTE 649 (IL 17)

2021 ADT = 525

P.V. 75.3 % S.U. 5.7 % M.U. 19.0 %

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED **October 20, 2022**

[Signature]
REGIONAL ENGINEER

March 24, 2023
[Signature]

ENGINEER OF DESIGN AND ENVIRONMENT

March 24, 2023
[Signature]
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS

GENERAL NOTES

THE BASE COURSE WIDENING SHALL BE CARRIED THROUGH ALL ENTRANCES, SIDE ROADS, AND MAILBOX TURNOUTS. EXCEPTIONS WILL BE SHOWN ON THE PLANS.

THE ENGINEER WILL BE THE SOLE JUDGE CONCERNING CURING TIME FOR THE VARIOUS HMA LIFTS.

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

GRANULAR MATERIALS	2.05	TONS / CU YD
HMA RESURFACING	112	LBS / SQ YD / IN
SHORT TERM PAVEMENT MARKING	10	FT /100 FT OF APPLICATION

COMMITMENTS

THE ENGINEER SHALL RECORD THE DECK SLAB REPAIR LOCATIONS, PATCH SIZE AND QUANTITIES ON THE DECK SLAB REPAIR "AS-BUILT" PLAN DETAILS. WHEN RECORDED, THE ENGINEER SHALL FORWARD THE DECK SLAB REPAIR "AS-BUILT" PLAN DETAILS TO THE BRIDGE OFFICE IN A TIMELY MANNER. BRIDGE OFFICE CONTACT PERSON IS "VICTOR VELIZ" PHONE: (217) 782-2708 EMAIL: Adrian.Halloway@illinois.gov THE ENGINEER SHALL NOTIFY THE DEPARTMENT'S DESIGN AND PLANNING SECTION WHEN THE "AS-BUILT" DECK SLAB REPAIR PLAN HAS BEEN SENT TO THE BRIDGE OFFICE. CONTACT PERSON IS YOGESH PATEL. PHONE 815) 434)8418. EMAIL: Yogesh.Patel@illinois.gov.

HMA MIXTURE REQUIREMENT TABLE

LOCATION(S) :	HOT-MIX ASPHALT SHOULDERS	
	HMA BINDER	HMA SURFACE
MIXTURE USE(S) :	BOTTOM LIFTS	TOP LIFT
BINDER GRADE (PG) :	PG 64-22	PG 64-22
DESIGN AIR VOIDS :	4% @ N50	4% @ N50
MIXTURE COMPOSITION: (MIXTURE GRADATION)	1L 19.0	1L 9.5
FRICTION AGGREGATE :		MIXTURE C
MIXTURE WEIGHT:	112.0 LB/SY/IN	112.0 LB/SY/IN
QUALITY MANAGEMENT PROGRAM:	QC/QA	QC/QA
SUBLOT SIZE:	N/A	N/A
DENSITY TEST METHOD:	CORES	CORES

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DISTRICT THREE
AS BUILT INFORMATION

SUPERVISING CONSTRUCTION FIELD ENGINEER

RESIDENT ENGINEER / TECHNICIAN

START & END DATES
OF CONSTRUCTION:

INSPECTORS:

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DISTRICT THREE

PREPARED BY: _____
DISTRICT STUDIES & PLANS ENGINEER

DATE: _____

EXAMINED BY: _____
DISTRICT CONSTRUCTION ENGINEER

DISTRICT MATERIALS ENGINEER

DISTRICT OPERATIONS ENGINEER

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL NOTES

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
649	(108BR-2, 108-BR-3)BRR	LIVINGSTON	42	2
			CONTRACT NO. 66M75	
		ILLINOIS FED. AID PROJECT		

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CONSTRUCTION CODE
CONTRACT MAINTENANCE
100% STATE
BRIDGE
0047
RURAL

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	
20200500	EARTH EXCAVATION (WIDENING)	CU YD	36.8	36.8
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	167	167
42000060	WELDED WIRE REINFORCEMENT	SQ YD	488	488
42000080	PAVEMENT CONNECTOR (PCC) FOR BRIDGE APPROACH SLAB	SQ YD	488	488
44000100	PAVEMENT REMOVAL	SQ YD	380	380
44004250	PAVED SHOULDER REMOVAL	SQ YD	641	641
48203033	HOT-MIX ASPHALT SHOULDERS, 9"	SQ YD	669	669
50102400	CONCRETE REMOVAL	CU YD	17.6	17.6
50300225	CONCRETE STRUCTURES	CU YD	60	60
50300255	CONCRETE SUPERSTRUCTURE	CU YD	19.3	19.3
50300260	BRIDGE DECK GROOVING	SQ YD	890	890
50300300	PROTECTIVE COAT	SQ YD	1031	1031
50301350	CONCRETE SUPERSTRUCTURE (APPROACH SLAB)	CU YD	186	186
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	80560	80560

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	DRAWN - RW	REVISED -
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PLOT DATE = 10/19/2022	DATE = 7/5/2022	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES

SCALE: SHEET 1 OF 3 SHEETS STA. TO STA.

FAP. RTE. I	SECTION I	COUNTY I	TOTAL SHEETS I
649 I	(108BR-2, 108-BR-3)BRR I	UVINGSTON I	42 I 3
			CONTRACT NO. 66M75
ILLINOIS I FED. AID PROJECT			

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
				CONTRACT MAINTENANCE	
				100% STATE	
				BRIDGE	
				0047	
				RURAL	
50800515	BAR SPLICERS	EACH	266		266
52000110	PREFORMED JOINT STRIP SEAL	FOOT	192		192
63300575	REMOVE AND REERECT RAIL ELEMENT OF EXISTING GUARDRAIL	FOOT	500		500
67100100	MOBILIZATION	L SUM	1		1
70100405	TRAFFIC CONTROL AND PROTECTION, STANDARD 701321	EACH	2		2
70106500	TEMPORARY BRIDGE TRAFFIC SIGNALS	EACH	2		2
70300100	SHORT TERM PAVEMENT MARKING	FOOT	181		181
70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SQ FT	59		59
70400100	TEMPORARY CONCRETE BARRIER	FOOT	950		950
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	875		875
70600251	IMPACT ATTENUATORS, TEMPORARY (NON- REDIRECTIVE, NARROW), TEST LEVEL 3	EACH	6		6
70600352	IMPACT ATTENUATORS, RELOCATE (NON- REDIRECTIVE, NARROW), TEST LEVEL 3	EACH	4		4
* 78009004	MODIFIED URETHANE PAVEMENT MARKING - LINE 4"	FOOT	2284		2284
* 78009006	MODIFIED URETHANE PAVEMENT MARKING - LINE 6"	FOOT	454		454

*= SPECIALTY ITEM

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PLOT SCALE = 100.00' / in.	CHECKED - YP	REVISED -				649	(108BR-2, 108-BR-3)BRR	LIVINGSTON	42	4	
PLOT DATE = 10/19/2022	DATE - 7/5/2022	REVISED -		SCALE:	SHEET 2 OF 3 SHEETS	STA.	TO STA.	CONTRACT NO. 66M75			
						ILLINOIS FED. AID PROJECT					

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
				CONTRACT MAINTENANCE	100% STATE
				BRIDGE	
				0047	
				RURAL	
* 78200005	GUARDRAIL REFLECTORS, TYPE A	EACH	10		10
78300202	PAVEMENT MARKING REMOVAL - WATER BLASTING	SQ FT	981		981
X6350204	LINEAR DELINEATOR PANELS, 4 INCH	EACH	11		11
X7010101	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201 (SPECIAL)	EACH	2		2
X7200201	WIDTH RESTRICTION SIGNING	L SUM	1		1
Z0001495	BRIDGE APPROACH SHOULDER REMOVAL	SQ YD	49		49
Z0004552	APPROACH SLAB REMOVAL	SQ YD	368		368
Z0016200	DECK SLAB REPAIR (PARTIAL)	SQ YD	54		54
Z0030850	TEMPORARY INFORMATION SIGNING	SQ FT	84		84
Z0041895	POLYMER CONCRETE	CU FT	4.8		4.8

*= SPECIALTY ITEM

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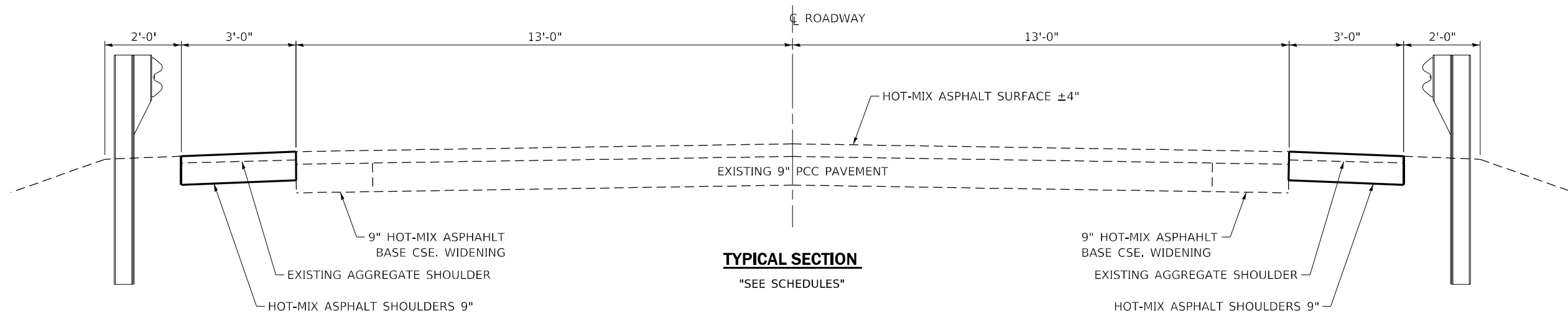
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	DATE - 7/5/2022	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
649	(108BR-2, 108-BR-3)BRR	LIVINGSTON	42	5
			CONTRACT NO. 66M75	
ILLINOIS FED. AID PROJECT				



TYPICAL SECTION
"SEE SCHEDULES"

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

TYPICAL SECTION

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
649	(108BR-2, 108-BR-3)BRR	LIVINGSTON	42	6
CONTRACT NO. 66M75				
ILLINOIS FED. AID PROJECT				

SCHEDULE - SHOULDERS

LOCATION				EARTH EXCAVATION (WIDENING)	PAVED SHOULDER REMOVAL	BITUMINOUS MATERIALS (TACK-COAT)	HOT-MIX ASPHALT SHOULDER 9"
STATION	TO	STATION	LT/RT	CU YD	SQ YD	POUND	SQ YD
STRUCTURE NO. 053-0027							
PRE-STAGE CONSTRUCTION							
458+24	TO	460+23	LT	16.6		15	66
460+23	TO	461+90	LT		56	13	56
462+87	TO	464+95	LT		70	16	70
STAGE I SUBTOTAL				16.6	126	44	192
STAGE I CONSTRUCTION							
458+24	TO	460+23	RT	16.6		15	66
460+23	TO	462+24	RT		67	15	47
462+87	TO	464+95	RT		70	16	47
STAGE I SUBTOTAL				16.6	137	46	160
STAGE II CONSTRUCTION							
461+62	TO	461+90	LT		9		
462+87	TO	463+57	LT		23		
STAGE II SUBTOTAL					32		
TOTAL				33.2	295	90	352

SCHEDULE - GUARDRAIL

LOCATION	REMOVE AND RE-ERECT RAIL ELEMENT OF EXISTING GUARDRAIL	GUARDRAIL REFLECTORS TYPE A	LINEAR DELINEATOR PANELS 4 INCH
	FOOT	EACH	EACH
STRUCTURE NO. 053-0027			
NORTHWEST CORNER	50	1	2
SOUTHWEST CORNER	75	1	1
NORTHEAST CORNER	50	2	2
SOUTHEAST CORNER	75	1	1
TOTAL	250	5	6

SCHEDULE - PAVEMENT MARKING

LOCATION				PAVEMENT MARKING REMOVAL WATER-BLASTING	SHORT TERM PAVEMENT MARKING	SHORT TERM PAVEMENT MARKING REMOVAL	MODIFIED URETHANE PAVEMENT MARKING LINE 4"	MODIFIED URETHANE PAVEMENT MARKING LINE 6"
STATION	TO	STATION	LT/CL/RT	SQ FT	FOOT	SQ FT	WHITE FOOT	YELLOW FOOT
STRUCTURE NO. 053-0027								
STAGE I								
456+70	TO	466+23	CL	119				
458+24	TO	464+69	LT	213				
SUBTOTAL				332				
STAGE II								
456+70	TO	466+23	CL		95	31		238
458+24	TO	464+69	LT				645	
458+79	TO	464+67	RT	194			588	
SUBTOTAL				194	95	31	1233	238
TOTAL				526	95	31	1233	238

SCHEDULE - TEMPORARY CONCRETE BARRIER

LOCATION	TEMPORARY CONCRETE BARRIER	IMPACT ATTENUATOR TEMPORARY (NON-REDIRECTIVE NARROW)	RELOCATE TEMPORARY CONCRETE BARRIER	IMPACT ATTENUATOR RELOCATE (NON-REDIRECTIVE NARROW)
		TEST LEVEL 3	TON	TEST LEVEL 3
STA.	SQ YD	EACH	TON	EACH
STRUCTURE NO. 053-0027				
STAGE I	487.5	4		
STAGE II			412.5	2
TOTAL	487.5	4	412.5	2

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PLOT DATE = 10/19/2022	DATE - 7/5/2022	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**SCHEDULES
FOR STRUCTURE NO. 053-0027**

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
649	(108BR-2, 108-BR-3)BRR	LIVINGSTON	42	7
			CONTRACT NO. 66M75	
ILLINOIS FED. AID PROJECT				

SCHEDULE - SHOULDERS

LOCATION				EARTH EXCAVATION (WIDENING)	PAVED SHOULDER REMOVAL	BITUMINOUS MATERIALS (TACK-COAT)	HOT-MIX ASPHALT SHOULDER 9"
STATION	TO	STATION	LT/RT	CU YD	SQ YD	POUND	SQ YD
STRUCTURE NO. 053-0167							
PRE-STAGE CONSTRUCTION							
476+87	TO	479+29	LT		81	18	81
480+65	TO	483+09	LI		81	18	81
483+09	TO	483+30	LT	1.8		2	7
STAGE I SUBTOTAL				1.8	162	38	169
STAGE I CONSTRUCTION							
476+87	TO	479+62	RT		92	21	71
481+00	TO	483+09	RT		70	16	70
483+09	TO	483+30	RT	1.8		2	7
STAGE I SUBTOTAL				1.8	162	39	148
STAGE II CONSTRUCTION							
479+00	TO	479+29	RT		10		
480+65	TO	481+00	RT		12		
STAGE II SUBTOTAL					22		
TOTAL				3.6	346	77	317

SCHEDULE - GUARDRAIL

LOCATION	REMOVE AND RE-ERECT RAIL ELEMENT OF EXISTING GUARDRAIL	GUARDRAIL REFLECTORS TYPE A	LINEAR DELINEATOR PANELS 4 INCH
STATION	FOOT	EACH	EACH
STRUCTURE NO. 053-0167			
NORTHWEST CORNER	50	1	1
SOUTHWEST CORNER	75	1	1
NORTHEAST CORNER	50	2	2
SOUTHEAST CORNER	75	1	1
TOTAL	250	5	5

SCHEDULE - PAVEMENT MARKING

LOCATION				PAVEMENT MARKING REMOVAL WATER-BLASTING	SHORT TERM PAVEMENT MARKING	SHORT TERM PAVEMENT MARKING REMOVAL	MODIFIED URETHANE PAVEMENT MARKING LINE 4"	MODIFIED URETHANE PAVEMENT MARKING LINE 6"
STATION	TO	STATION	LT/CL/RT	SQ FT	FOOT	SQ FT	WHITE FOOT	YELLOW FOOT
STRUCTURE NO. 053-0167								
STAGE I								
476+22	TO	484+86	CL	108				
477+77	TO	483+00	LT	173				
SUBTOTAL				281				
STAGE II								
476+22	TO	484+86	CL		86	28		216
477+77	TO	483+00	LT				523	
478+03	TO	483+31	RT	174			528	
SUBTOTAL				174	86	28	1051	216
TOTAL				455	86	28	1051	216

SCHEDULE - TEMPORARY CONCRETE BARRIER

LOCATION	TEMPORARY CONCRETE BARRIER	IMPACT ATTENUATOR TEMPORARY (NON-REDIRECTIVE NARROW) TEST LEVEL 3	RELOCATE TEMPORARY CONCRETE BARRIER	IMPACT ATTENUATOR RELOCATE (NON-REDIRECTIVE NARROW) TEST LEVEL 3
STA.	SQ YD	EACH	TON	EACH
STRUCTURE NO. 053-0167				
STAGE I	462.5	2		
STAGE II			462.5	2
TOTAL	462.5	2	462.5	2

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PLOT DATE = 10/19/2022	DATE - 7/5/2022	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**SCHEDULES
FOR STRUCTURE NO. 053-0167**

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
649	(108BR-2, 108-BR-3)BRR	LIVINGSTON	42	8
CONTRACT NO. 66M75				
ILLINOIS FED. AID PROJECT				

GENERAL NOTES
 ALL SCHEDULE HIS CONSTRUCTION OPERATIONS SO THAT ALL WORK ON ONE STRUCTURE HAS BEEN COMPLETED PRIOR TO INSTALLING TRAFFIC CONTROL DEVICES OR TEMPORARY SIGNALS ON THE SECOND STRUCTURE.

THIS STANDARD IS USED WHERE, AT ANY TIME, ANY VEHICLE, EQUIPMENT, WORKERS, OR THEIR ACTIVITIES WILL ENCROACH ON ONE LANE OF A BRIDGE. TRAFFIC SIGNALS AND A POSITIVE BARRIER ARE REQUIRED.

TRAFFIC SIGNALS SHALL BE OPERATIONAL ONLY WHEN ALL TRAFFIC CONTROLS ARE IN PLACE. WHEN TRAFFIC SIGNALS ARE NOT IN OPERATION, FLAGGERS SHALL BE USED AND TRAFFIC CONTROL SHALL CONFORM TO STANDARD 701201 OR 701206.

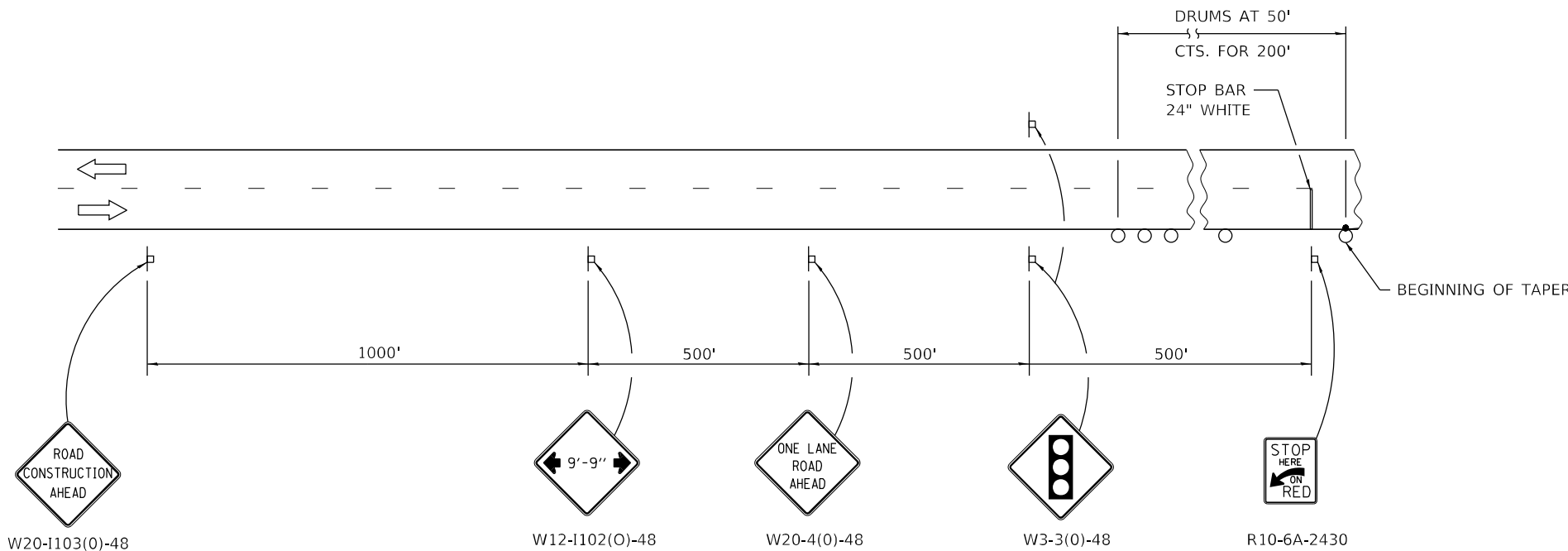
TEMPORARY CONCRETE BARRIER SHALL BE ACCORDING TO STANDARD 704001.

EXISTING OR TEMPORARY PAVEMENT MARKINGS SHALL BE ON BOTH SIDES OF OPEN LANE FROM STOP BAR TO STOP BAR.

TEMPORARY PAVEMENT MARKING AS SHOWN ON THIS DETAIL, SHALL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST OF THE STANDARD.

TEMPORARY BRIDGE TRAFFIC SIGNALS SHOWN ON STAGE II TRAFFIC CONTROL HAVE BEEN INSTALLED FOR STAGE I.

TRAFFIC SIGNAL SEQUENCING SHALL BE COORDINATED THE THE DEPARTMENTS TRAFFIC SIGNAL ENGINEER DAN DEVINE, PHONE (815) 434-8505.

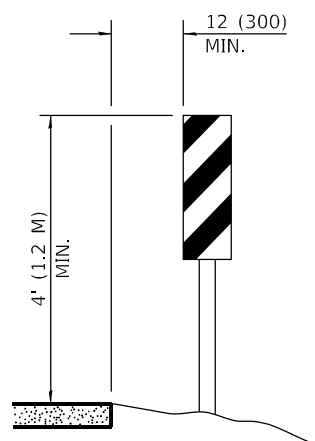


SYMBOLS

- SIGN
- TRAFFIC DIRECTION ARROW

TEMPORARY CONCRETE BARRIER	
NORMAL POSTED SPEED	TAPER RATIO
40 mph AND ABOVE	12:1
BELOW 40 mph	8:1

ADVISORY SPEED LIMIT	
NORMAL POSTED SPEED	ADVISORY SPEED
55 - 45 mph	40 mph
40 mph	35 mph
35 - 30 mph	30 mph

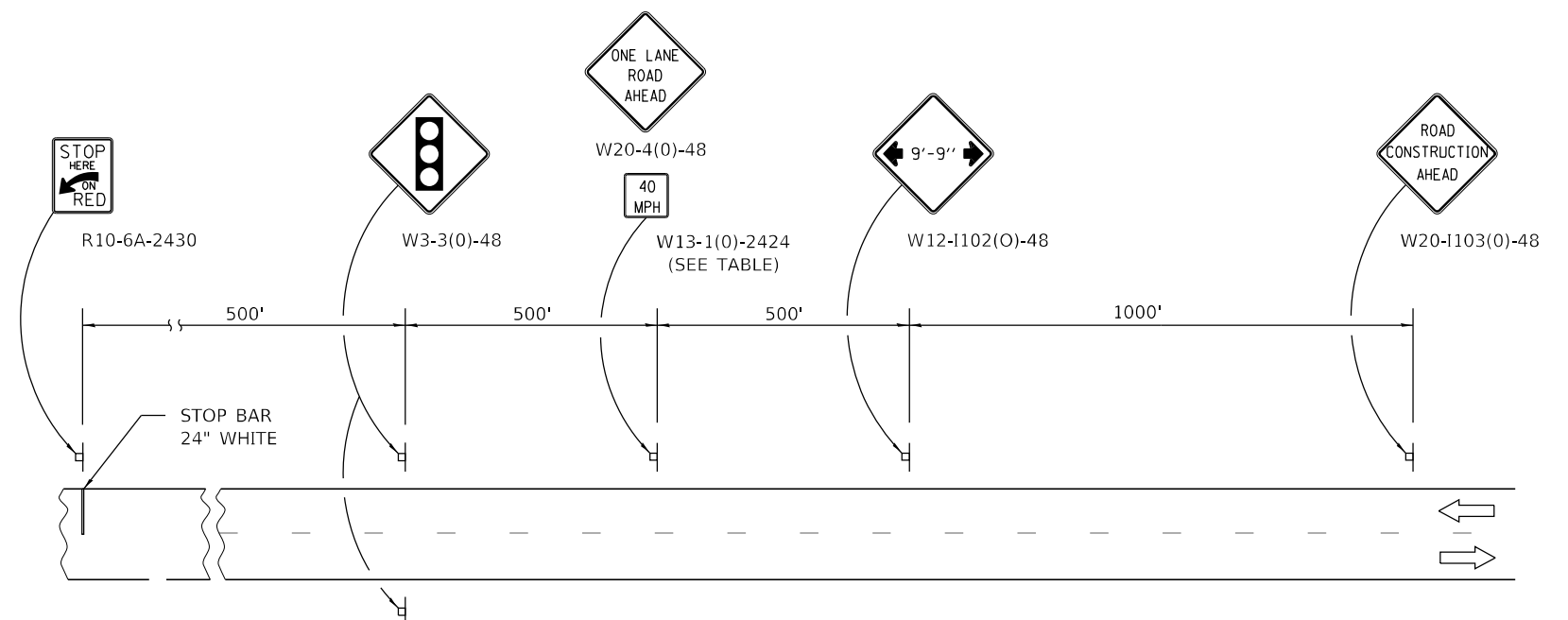


VERTICAL PANELS

(POST MOUNTED, ONE EACH SIDE)

LEGEND

TEMPORARY RUMBLE STRIP (SPECIAL)



MODEL: Default
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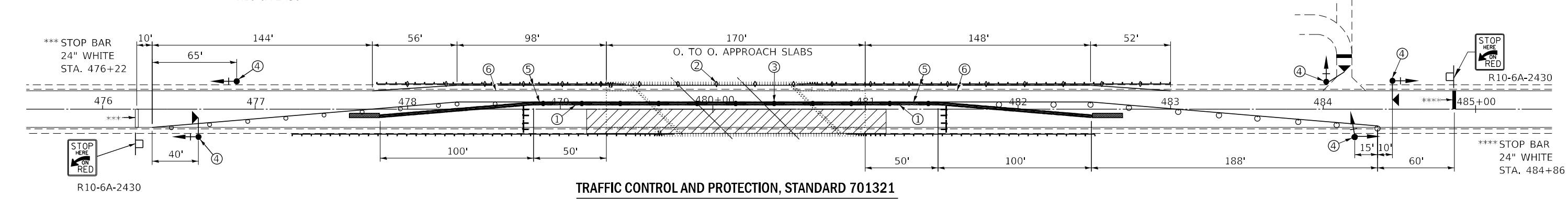
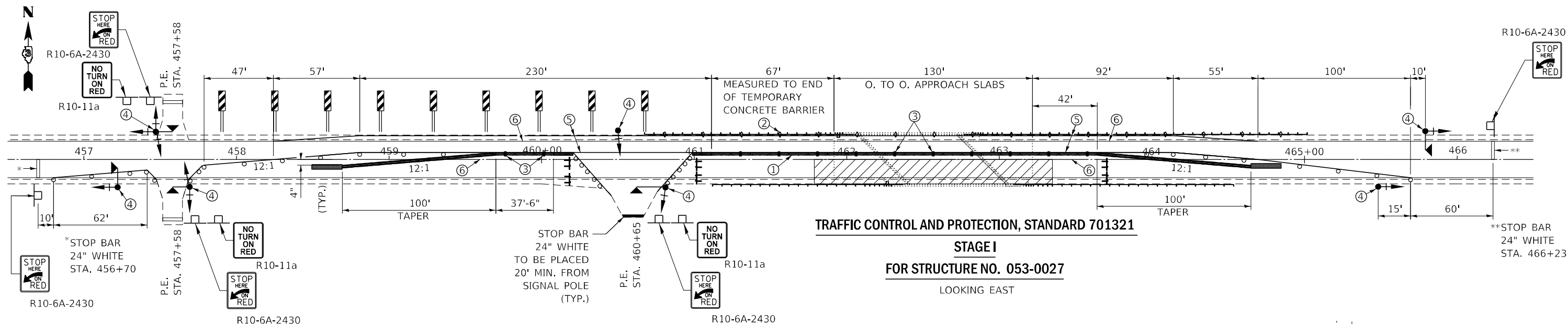
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PLOT DATE = 10/19/2022	DATE - 7/5/2022	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**TRAFFIC CONTROL AND PROTECTION, STANDARD, 701321
 ADVANCED SIGNING**

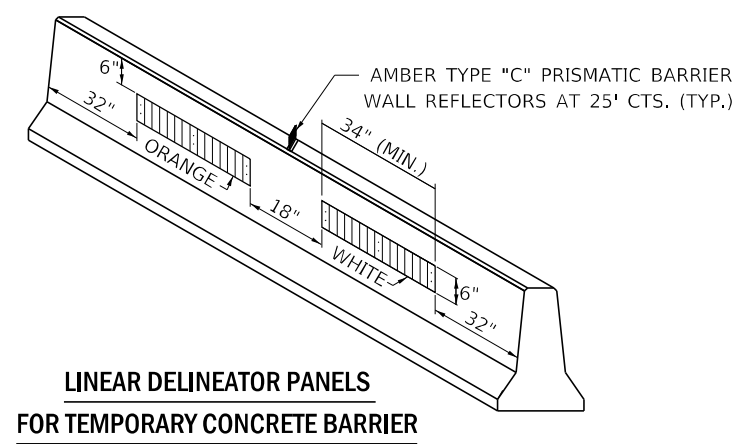
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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			CONTRACT NO. 66M75	
ILLINOIS FED. AID PROJECT				

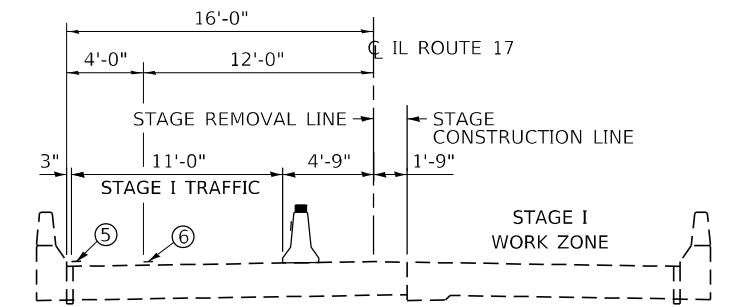
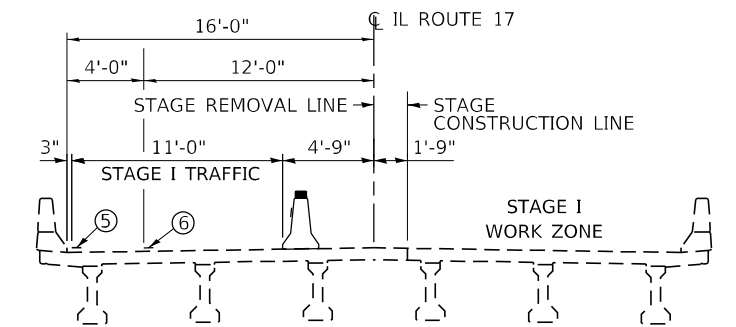


LEGEND

- WORK AREA
- SIGN
- TYPE III BARRICADE WITH FLASHING LIGHTS WHEN WORKERS NOT PRESENT
- AMBER TYPE "C" PRISMATIC BARRRIER WALL REFLECTOR
- DOUBLE VERTICAL PANEL (SEE DETAIL)
- TRAFFIC CONTROL DRUM WITH STEADY BURN LIGHT (TAPERS)
- TRAFFIC CONTROL DRUM (TANGENT)
- TRAFFIC SIGNAL WITH BACKPLATE
- TRAFFIC SIGNAL WITH BACKPLATE AND MOTION DETECTOR
- TEMPORARY IMPACT ATTENUATORS (NON-REDIRECTIVE, NARROW) TEST LEVEL 3
- CRYSTAL, BIDIRECTIONAL GUARDRAIL BARRIER WALL REFLECTOR



- ① TEMPORARY CONCRETE BARRIER. SEE LINEAR DELINEATOR PANELS FOR TEMPORARY CONCRETE BARRIER DETAIL
- ② GUARDRAIL MARKERS AT 25' CTS. SEE STANDARD 782006
- ③ AMBER TYPE "C" PRISMATIC BARRRIER WALL REFLECTORS AT 25' CTS.
- ④ THE EDGE OF THE POST MOUNTED SIGNAL HEAD SHALL BE BETWEEN 24" AND 6" FROM THE EDGE OF SHOULDER.
- ⑤ TEMPORARY PAVEMENT MARKING - LINE 4"
- ⑥ EXISTING EDGE LNE STRIPE/PAVEMENT MARKING REMOVAL
 (a) CENTERLINE STRIPE-STOP BAR TO STOP BAR
 (b) EDGE LINE-AS SHOWN ON DETAIL



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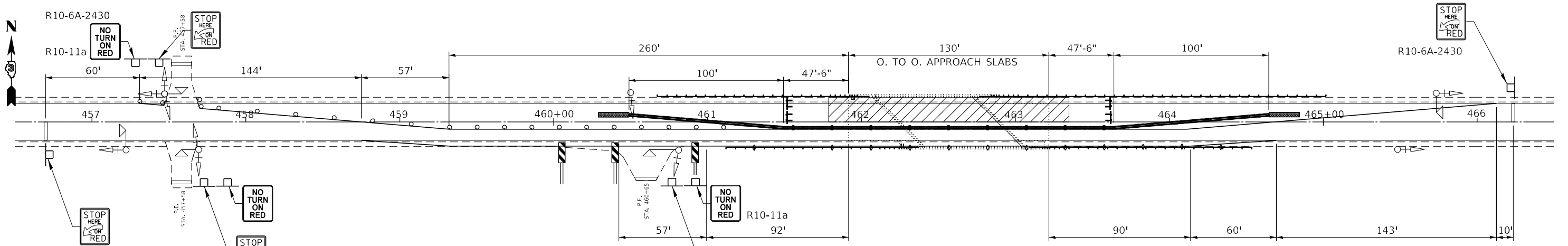
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PLOT DATE = 10/19/2022	DATE - 7/5/2022	REVISOR -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL AND PROTECTION, STANDARD 701321
STAGE I DETAILS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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			CONTRACT NO. 66M75	
ILLINOIS FED. AID PROJECT				

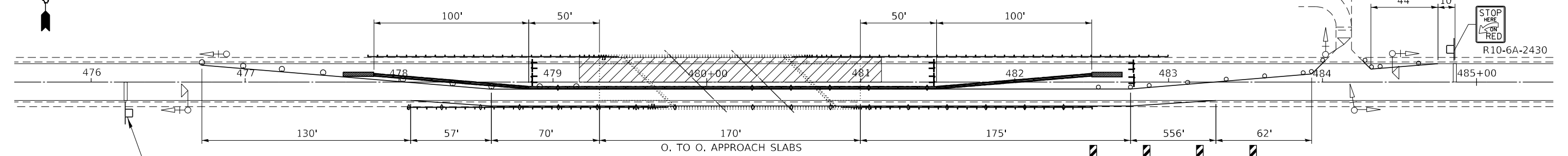
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TRAFFIC CONTROL AND PROTECTION, STANDARD 701321

**STAGE II
FOR STRUCTURE NO. 053-0027**

LOOKING EAST



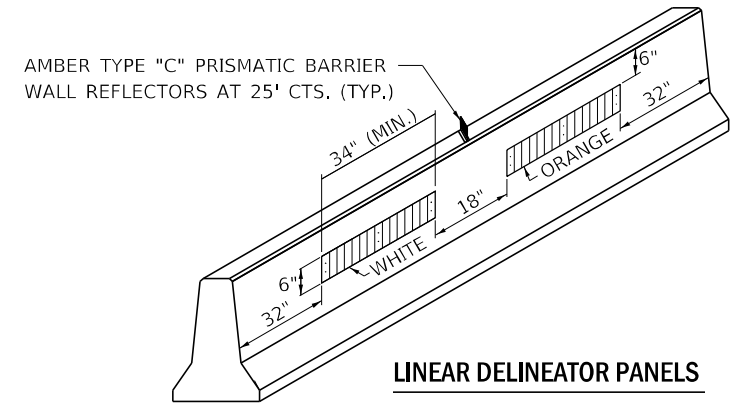
TRAFFIC CONTROL AND PROTECTION, STANDARD 701321

**STAGE II
FOR STRUCTURE NO. 053-0167**

LOOKING EAST

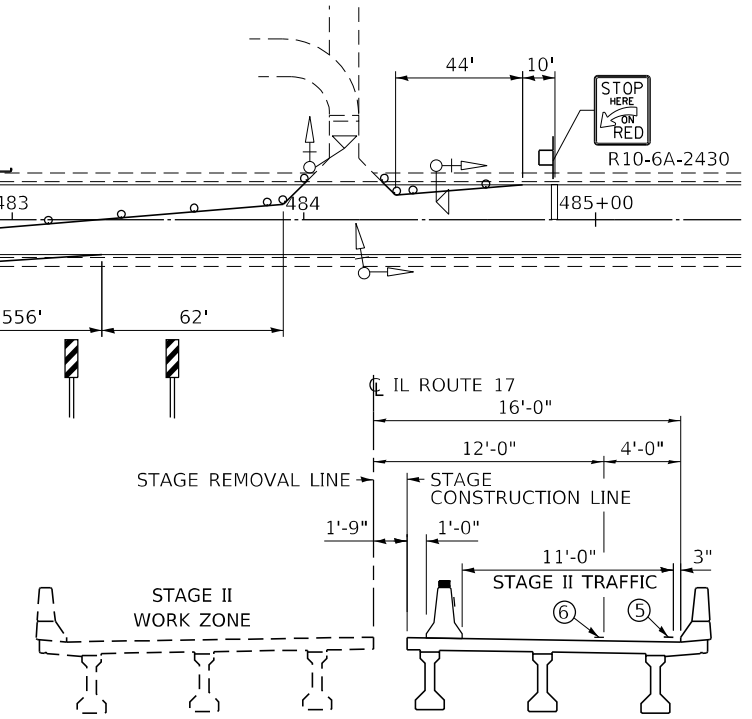
LEGEND

- WORK AREA
- SIGN
- TYPE III BARRICADE WITH FLASHING LIGHTS WHEN WORKERS NOT PRESENT
- AMBER TYPE "C" PRISMATIC BARRIER WALL REFLECTOR
- DOUBLE VERTICAL PANEL (SEE DETAIL)
- TRAFFIC CONTROL DRUM WITH STEADY BURN LIGHT (TAPERS)
- TRAFFIC CONTROL DRUM (TANGENT)
- TRAFFIC SIGNAL WITH BACKPLATE
- TRAFFIC SIGNAL WITH BACKPLATE AND MOTION DETECTOR
- TEMPORARY IMPACT ATTENUATORS (NON-REDIRECTIVE, NARROW) TEST LEVEL 3
- CRYSTAL, BIDIRECTIONAL GUARDRAIL BARRIER WALL REFLECTOR

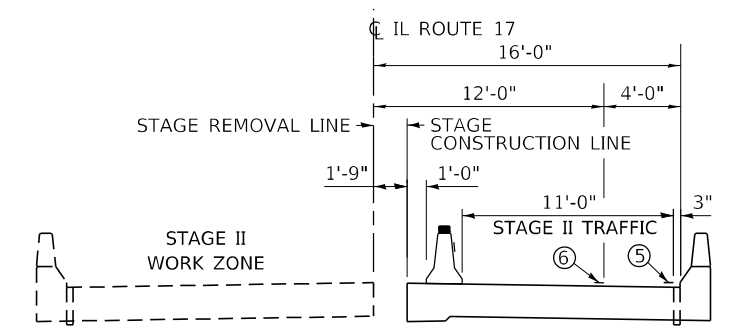


**LINEAR DELINEATOR PANELS
FOR TEMPORARY CONCRETE BARRIER**

- ① TEMPORARY CONCRETE BARRIER. SEE LINEAR DELINEATOR PANELS FOR TEMPORARY CONCRETE BARRIER DETAIL
- ② GUARDRAIL MARKERS AT 25' CTS. SEE STANDARD 782006
- ③ AMBER TYPE "C" PRISMATIC BARRIER WALL REFLECTORS AT 25' CTS.
- ④ THE EDGE OF THE POST MOUNTED SIGNAL HEAD SHALL BE BETWEEN 24" AND 6" FROM THE EDGE OF SHOULDER.
- ⑤ TEMPORARY PAVEMENT MARKING - LINE 4"
- ⑥ EXISTING EDGE LINE STRIPE/PAVEMENT MARKING REMOVAL
(a) CENTERLINE STRIPE-STOP BAR TO STOP BAR
(b) EDGE LINE-AS SHOWN ON DETAIL



**CROSS SECTION-STAGE II
STRUCTURE NO. 053-0027**



**CROSS SECTION-STAGE II
STRUCTURE NO. 053-0167**

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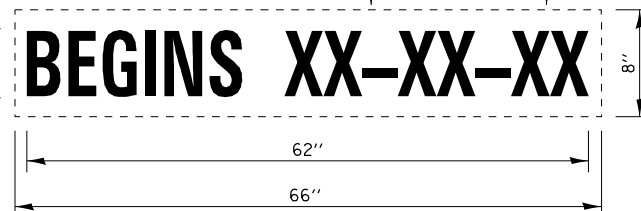
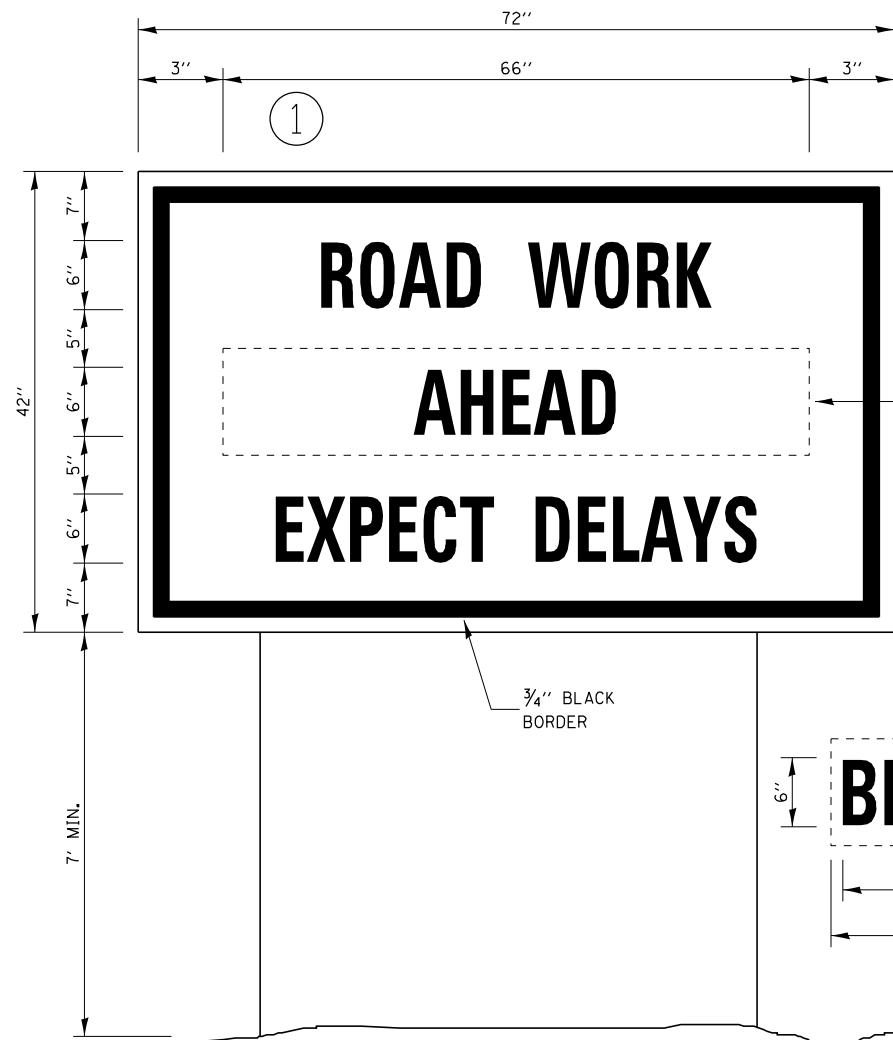
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PLOT DATE = 10/19/2022	DATE - 7/5/2022	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

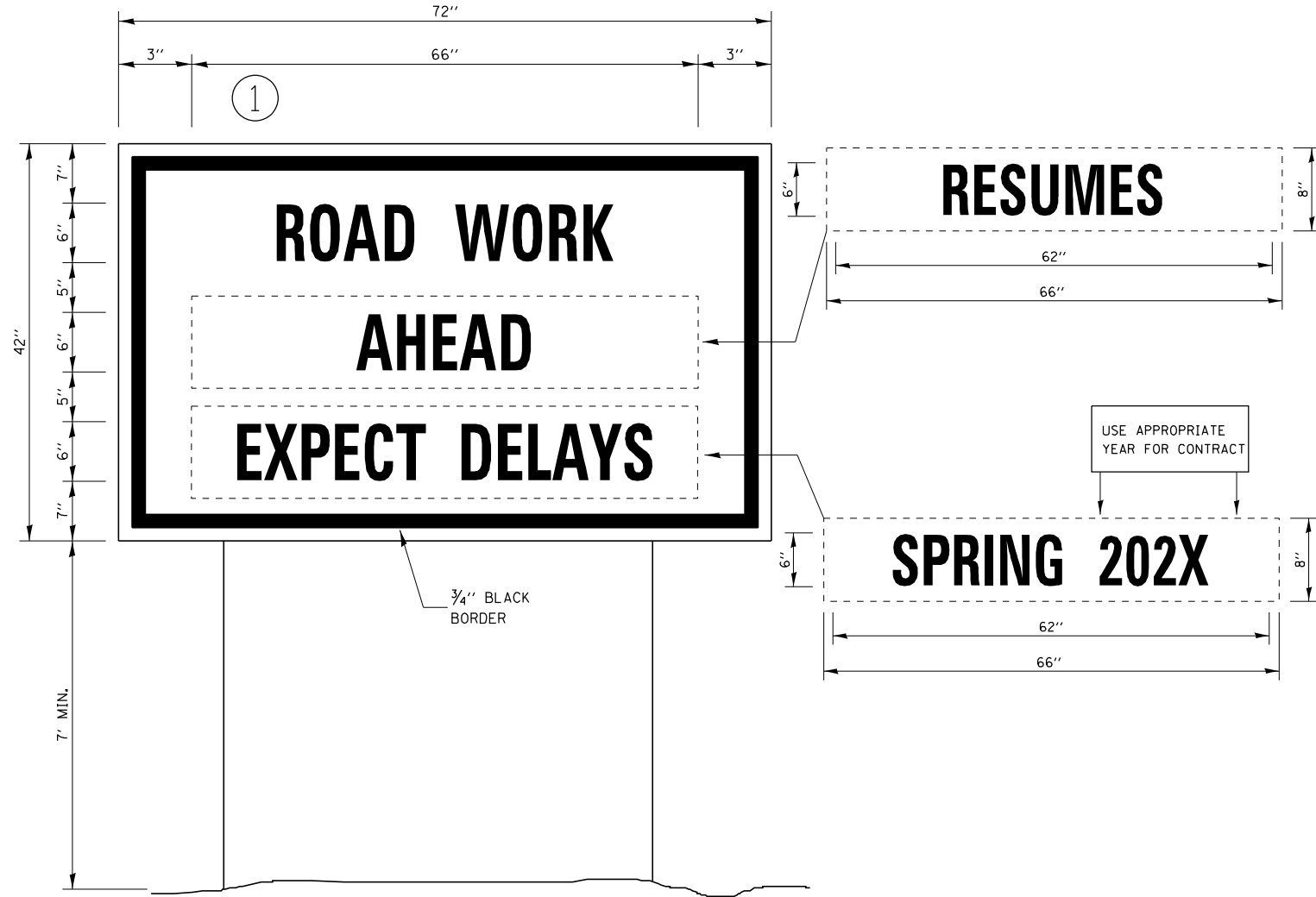
**TRAFFIC CONTROL AND PROTECTION, STANDARD 701321
STAGE II DETAILS**

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
649	(108BR-2, 108-BR-3)BRR	LIVINGSTON	42	11
			CONTRACT NO. 66M75	
ILLINOIS FED. AID PROJECT				

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



TEMPORARY INFORMATION SIGNING



WINTER SHUT DOWN SIGNING

NOTES:

1. USE 6" D BLACK LETTERING ON FLOURESENT ORANGE BACKGROUND.
2. ERECT SIGNS AT LOCATIONS IN ADVANCE OF THE "ROAD CONSTRUCTION AHEAD" SIGNS AS DIRECTED BY THE ENGINEER.
3. ERECT SIGN ① WITH INSTALLED PANEL ② A MINIMUM OF ONE WEEK PRIOR TO THE START OF THE LANE CLOSURE.
4. REMOVE PANEL ② ON THAT DATE.
5. SEE SPECIAL PROVISION "TEMPORARY INFORMATION SIGNING" FOR ADDITIONAL INFORMATION.
6. WILL BE PAID FOR PER SO FT AS "TEMPORARY INFORMATION SIGNING". EACH SIGN = 21 SO FT AND THE DATE PANEL ② WILL NOT BE MEASURED SEPARATELY FOR PAYMENT.

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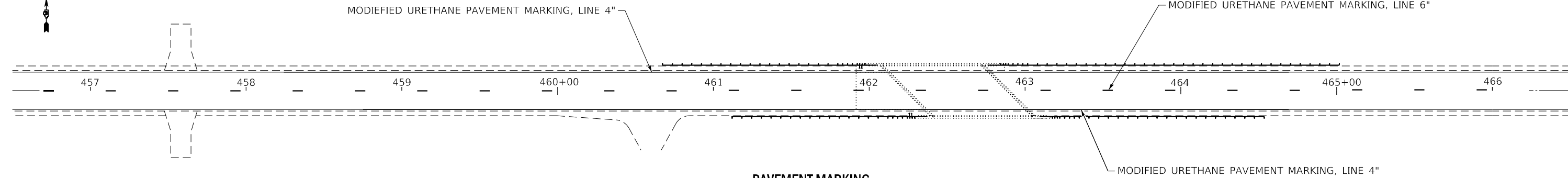
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PLOT DATE = 10/19/2022	DATE - 7/5/2022	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

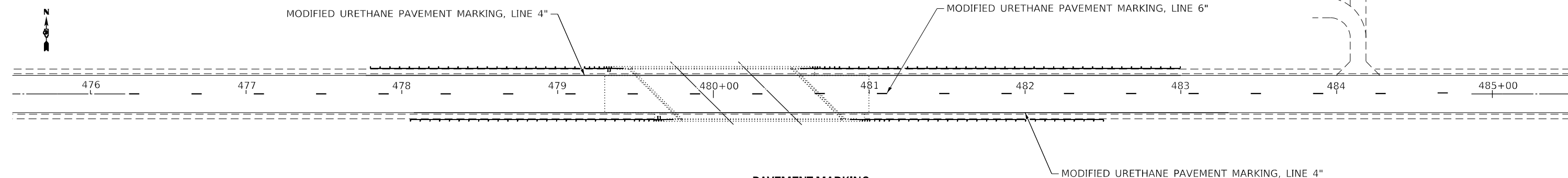
TEMPORARY INFORMATION SIGNING

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
649	(108BR-2, 108-BR-3)BRR	LIVINGSTON	42	12
			CONTRACT NO. 66M75	
ILLINOIS FED. AID PROJECT				



**PAVEMENT MARKING
FOR STRUCTURE NO. 053-0027**



**PAVEMENT MARKING
FOR STRUCTURE NO. 053-0167**

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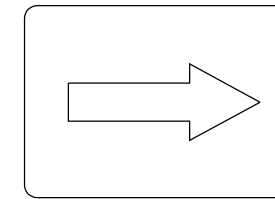
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PLOT DATE = 10/19/2022	DATE - 7/5/2022	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

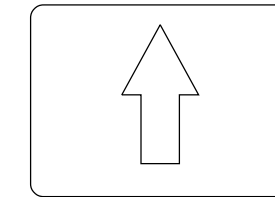
PAVEMENT MARKING

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

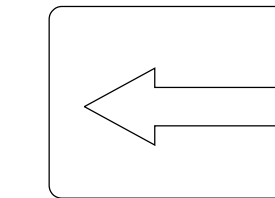
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			CONTRACT NO. 66M75	
ILLINOIS FED. AID PROJECT				



M6-1 21"X15"



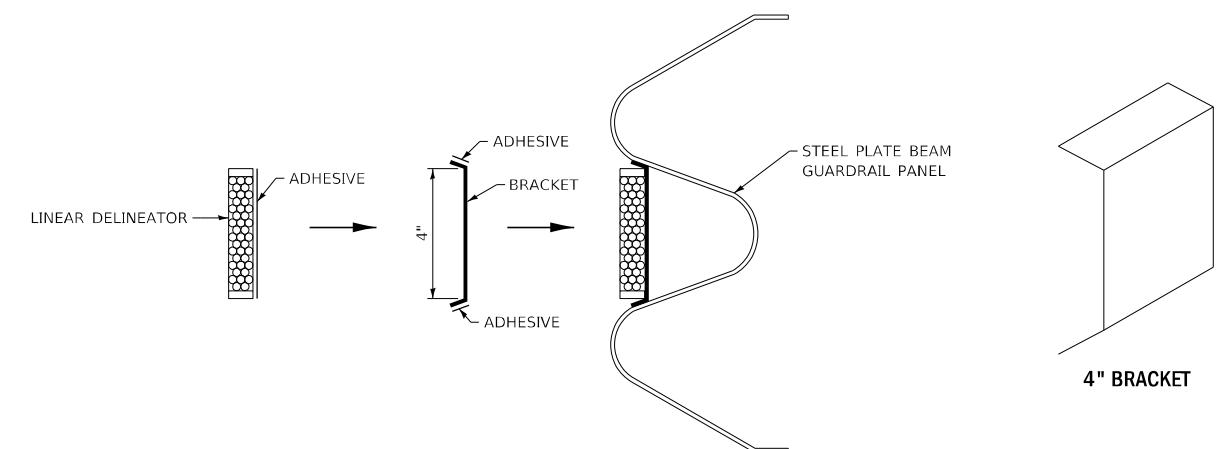
M6-3 21"X15"



M6-1 21"X15"

DIRECTIONAL ARROWS
FOR WIDTH RESTRICTION SIGNING

NOTE: ALL WIDTH RESTRICTION SIGNING AND SUPPLEMENTAL ARROW SIGNS SHALL BE "BLACK ON FLUORESCENT ORANGE SHEETING".



LINEATOR DELINEATOR APPLICATION TO STANDARD GALVANIZED GUARDRAIL

LINEATOR DELINEATOR SHALL BE APPLIED ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS

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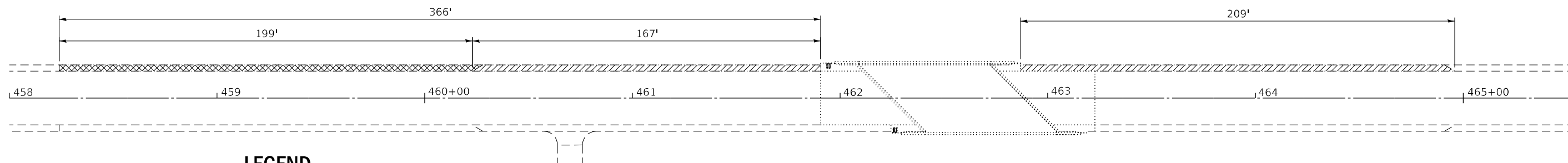
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION


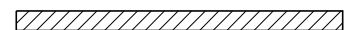
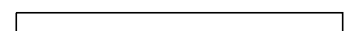
MISCELLANEOUS DETAILS

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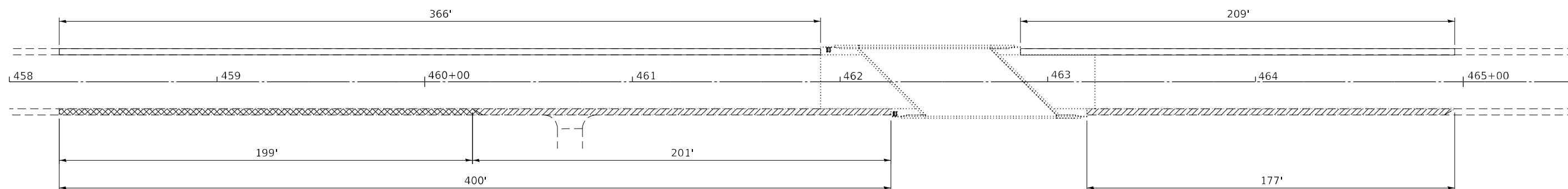
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			CONTRACT NO. 66M75	
		ILLINOIS FED. AID PROJECT		



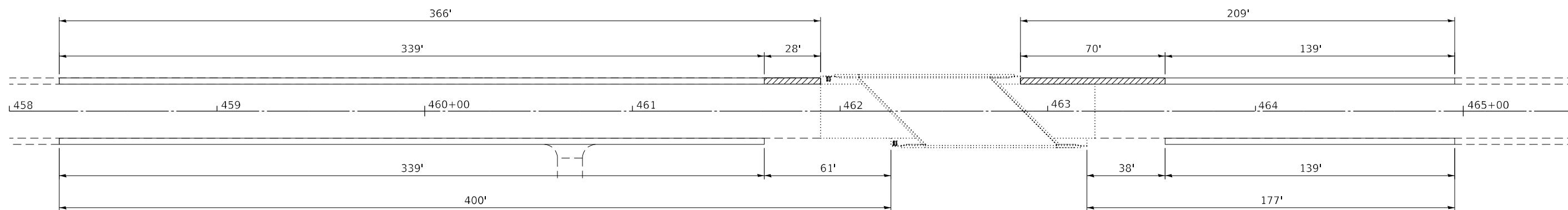
LEGEND

-  EARTH EXCAVATION (WIDENING)
-  PAVED SHOULDER REMOVAL
-  HOT-MIX ASPHALT SHOULDER 9"

**PRE-STAGE PLAN
SHOULDER RECONSTRUCTION
FOR STRUCTURE NO. 053-0027**



**STAGE I - PLAN
SHOULDER RECONSTRUCTION
FOR STRUCTURE NO. 053-0027**



**STAGE II - PLAN
SHOULDER RECONSTRUCTION
FOR STRUCTURE NO. 053-0027**

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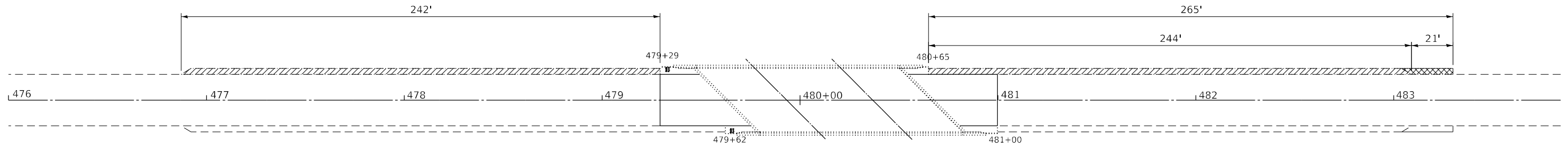
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**SHOULDER RECONSTRUCTION
FOR STRUCTURE NO. 053-0027**

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

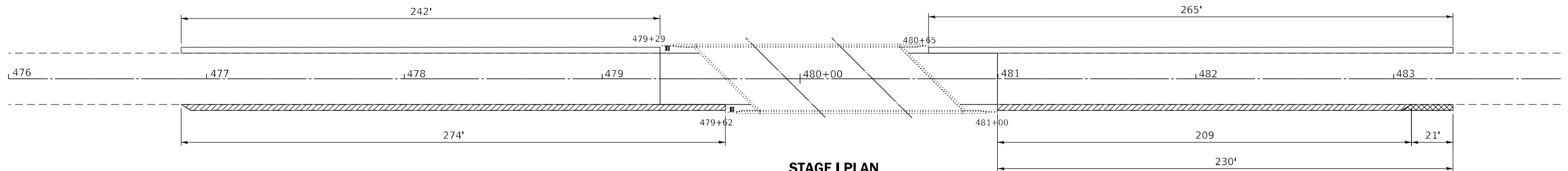
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			CONTRACT NO. 66M75	
			ILLINOIS FED. AID PROJECT	



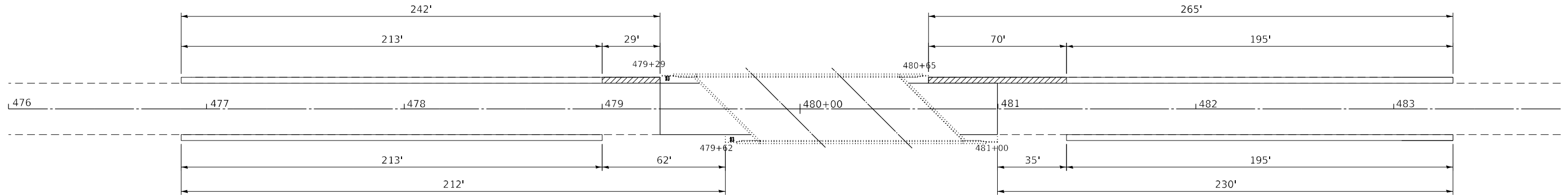
LEGEND

- EARTH EXCAVATION (WIDENING)
- PAVED SHOULDER REMOVAL
- HOT-MIX ASPHALT SHOULDER 9"

**PRE-STAGE PLAN
SHOULDER RECONSTRUCTION
FOR STRUCTURE NO. 053-0167**



**STAGE I PLAN
SHOULDER RECONSTRUCTION
FOR STRUCTURE NO. 053-0167**



**STAGE II PLAN
SHOULDER RECONSTRUCTION
FOR STRUCTURE NO. 053-0167**

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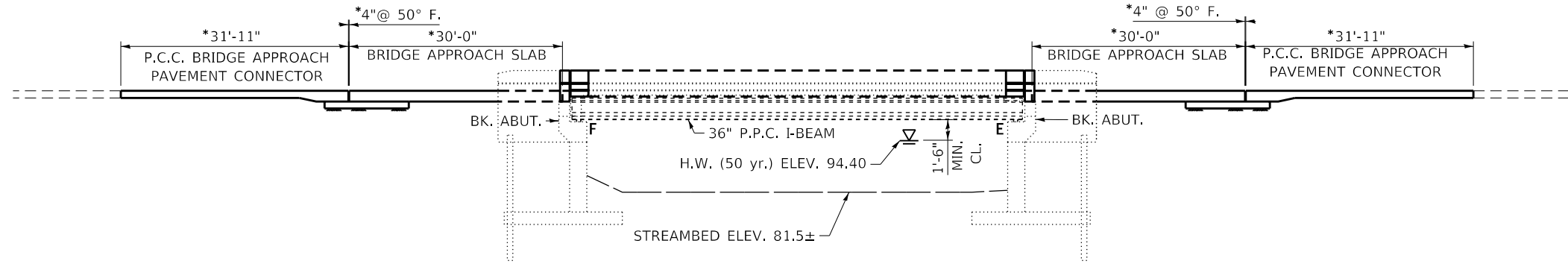
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**SHOULDER RECONSTRUCTION
FOR STRUCTURE NO. 053-0167**

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
649	(108BR-2, 108-BR-3)BRR	LIVINGSTON	42	16
			CONTRACT NO. 66M75	
			ILLINOIS FED. AID PROJECT	

*AS MEASURED ALONG THE CL OF ROADWAY



ELEVATION

GUARDRAIL NOT SHOWN FOR CLARITY

GENERAL NOTES

PLAN DIMENSIONS AND DETAILS RELATIVE TO EXISTING PLANS ARE SUBJECT TO NOMINAL CONSTRUCTION VARIATIONS. THE CONTRACTOR SHALL FIELD VERIFY EXISTING DIMENSIONS AND DETAILS AFFECTING NEW CONSTRUCTION AND MAKE NECESSARY APPROVED ADJUSTMENTS PRIOR TO CONSTRUCTION OR ORDERING OF MATERIALS. SUCH VARIATIONS SHALL NOT BE CAUSE FOR ADDITIONAL COMPENSATION FOR A CHANGE IN SCOPE OF THE WORK, HOWEVER, THE CONTRACTOR WILL BE PAID FOR THE QUANTITY ACTUALLY FURNISHED AT THE UNIT PRICE BID FOR THE WORK.

CARE SHALL BE TAKEN DURING CONCRETE REMOVAL OPERATIONS SO THAT THE EXISTING P.C.C. I-BEAMS ARE NOT DAMAGED. IF THE I-BEAMS ARE DAMAGED DUE TO THE CONTRACTS OPERATIONS, THEY SHALL BE REPAIRED TO THE SATISFACTION OF THE ENGINEER AT THE CONTRACTORS EXPENSE.

STRUCTURAL STEEL FOR EXPANSION JOINTS SHALL BE AASHTO M 270, GRADE 60.

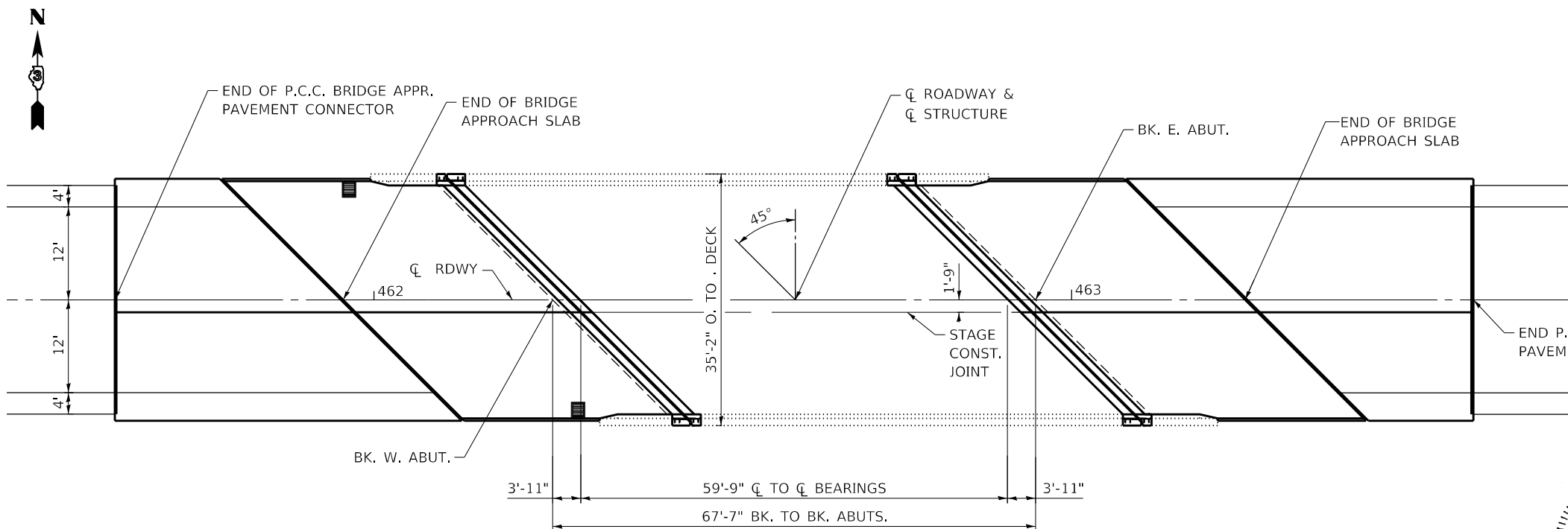
REINFORCEMENT BARS DESIGNATED (E) SHALL BE EPOXY COATED.

PROTECTIVE COAT SHALL BE APPLIED TO ALL NEW CONCRETE SURFACES.

EXISTING NAME PLATE SHALL BE REMOVED, CLEANED AND REINSTALLED INTO THE NEW CONSTRUCTION. COST INCLUDED WITH CONCRETE SUPERSTRUCTURES.

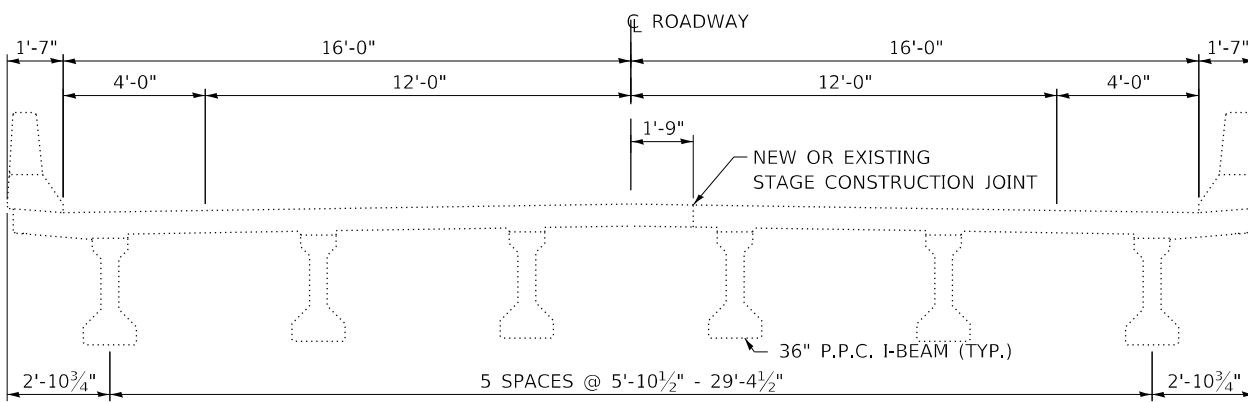
JOINT OPENING SHALL BE ADJUSTED ACCORDING TO ARTICLE 520.04 OF THE STANDARD SPECIFICATIONS WHEN THE DECK IS POURED AT AN AMBIENT TEMPERATURE OTHER THAN 50° FAHRENHEIT.

EXISTING REINFORCEMENT EXTENDING INTO REMOVAL AREAS SHALL BE CLEANED, STRAIGHTENED AND INCORPORATED INTO THE NEW CONSTRUCTION. ANY REINFORCEMENT BARS THAT ARE DAMAGED DURING CONCRETE REMOVAL OPERATIONS OR DETERIORATED BEYOND ITS SUITABILITY FOR CONSTRUCTION SHALL BE REPLACED WITH AN APPROVED BAR SPLICER OR ANCHORAGE SYSTEM. COST INCLUDED WITH CONCRETE REMOVAL.



PLAN
STRUCTURE NO. 053-0027

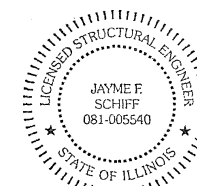
GUARDRAIL NOT SHOWN FOR CLARITY



CROSS SECTION
LOOKING EAST

SCOPE OF WORK

- REMOVAL WORK:
 - EXISTING BRIDGE APPROACH SLAB
 - EXISTING ADJACENT PCC/HMA PAVEMENT
 - EXISTING PCC BRIDGE APPROACH SHOULDER PAVEMENT
 - EXISTING EXPANSION JOINTS
 - EXISTING ADJACENT HMA SHOULDER
- CONSTRUCTION WORK:
 - NEW BRIDGE APPROACH SLAB
 - NEW PAVEMENT CONNECTOR (PCC) FOR BRIDGE APPROACH SLAB
 - NEW STRIP SEAL EXPANSION JOINTS
 - NEW HOT-MIX ASPHALT SHOULDERS
- ADDITIONAL CONSTRUCTION WORK:
 - REMOVE AND REPLACE CONCRETE FOR DECK SLAB REPAIRS



EXPIRES 11-30-2024

Jayme F. Schiff

TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
CONCRETE REMOVAL	CU. YD.	8.8
BRIDGE APPROACH SHOULDER REMOVAL	SQ. YD.	23
APPROACH SLAB REMOVAL	SQ. YD.	184
PAVEMENT REMOVAL	SQ. YD.	190
CONCRETE SUPERSTRUCTURE	CU. YD.	9.6
REINFORCEMENT BARS, EPOXY COATED	POUND	40280
BRIDGE DECK GROOVING	SQ. YD.	446
PROTECTIVE COAT	SQ. YD.	490
CONCRETE SUPERSTRUCTURE (APPROACH SLAB)	CU. YD.	93
PAVEMENT CONNECTOR (PCC) FOR BRIDGE APPROACH SLAB	SQ. YD.	244
CONCRETE STRUCTURES	CU. YD.	30
WELDED WIRE REINFORCEMENT	SQ. YD.	244
PREFORMED JOINT STRIP SEAL	FOOT	96
BAR SPLICERS	EACH	133
DECK SLAB REPAIR (PARTIAL)	SQ. YD.	3
POLYMER CONCRETE	CU. FT.	2.4

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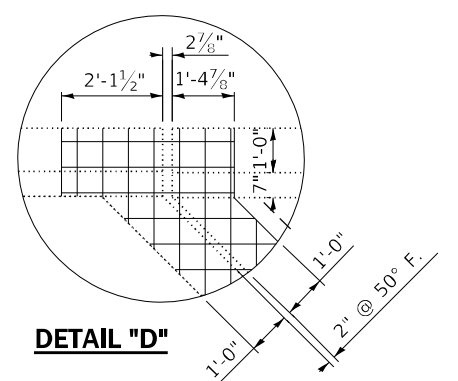
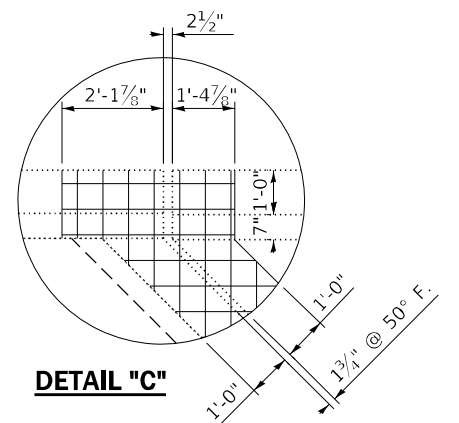
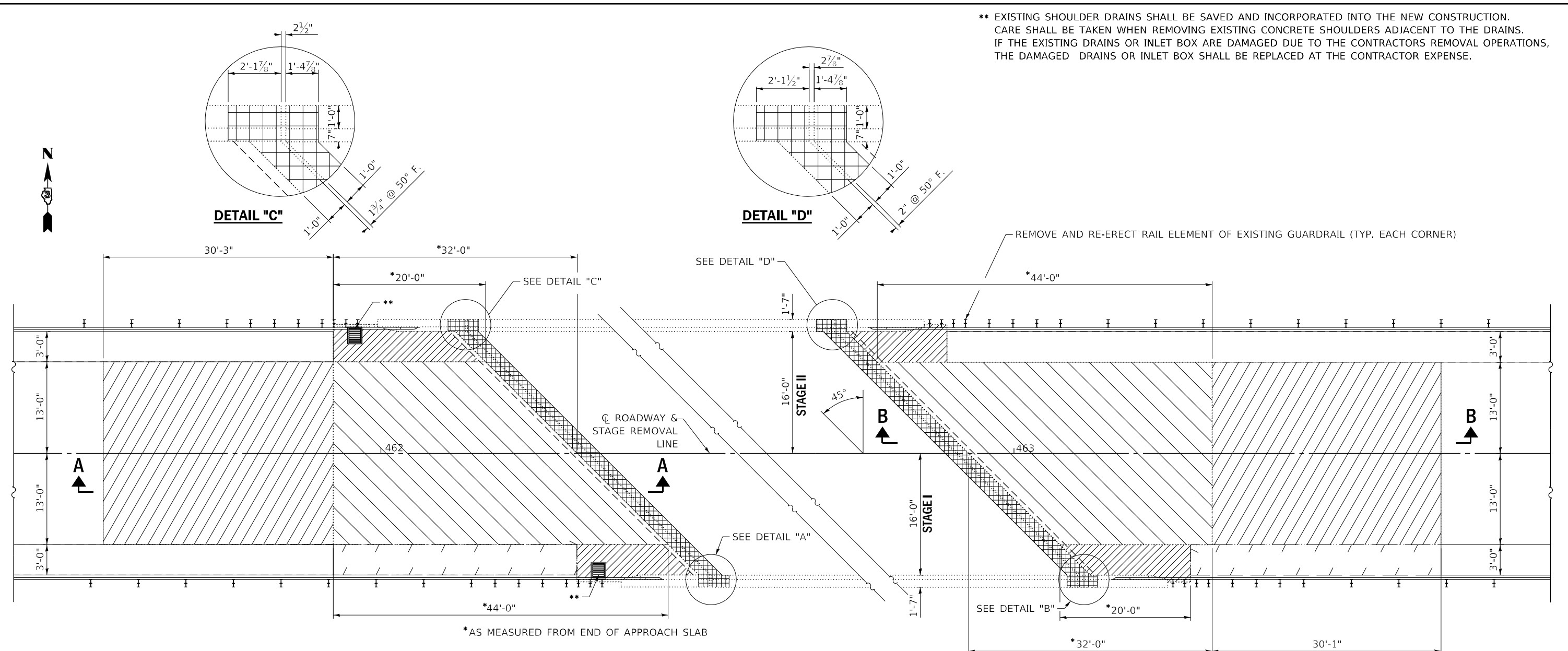
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN AND ELEVATION
FOR STRUCTURE NO. 053-0027

SCALE: SHEET 1 OF 13 SHEETS STA. TO STA.


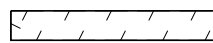
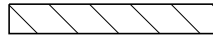
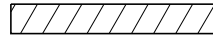

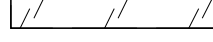
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
649	(108BR-2, 108-BR-3)BRR	LIVINGSTON	42	17
			CONTRACT NO. 66M75	
ILLINOIS FED. AID PROJECT				

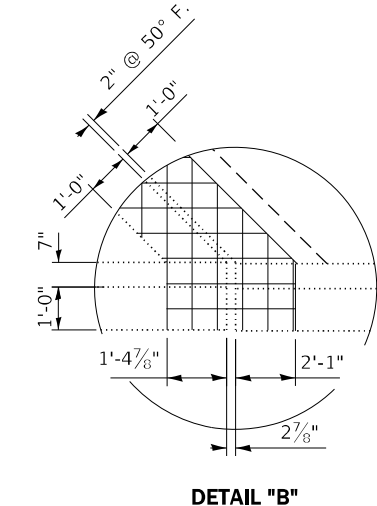
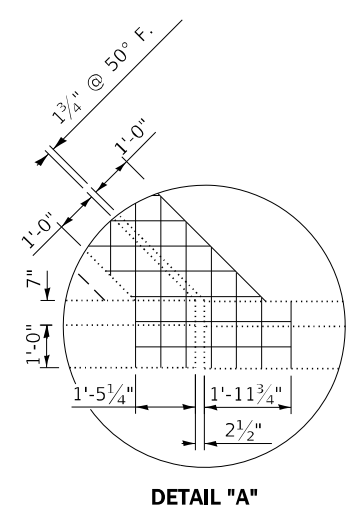
** EXISTING SHOULDER DRAINS SHALL BE SAVED AND INCORPORATED INTO THE NEW CONSTRUCTION. CARE SHALL BE TAKEN WHEN REMOVING EXISTING CONCRETE SHOULDERS ADJACENT TO THE DRAINS. IF THE EXISTING DRAINS OR INLET BOX ARE DAMAGED DUE TO THE CONTRACTORS REMOVAL OPERATIONS, THE DAMAGED DRAINS OR INLET BOX SHALL BE REPLACED AT THE CONTRACTOR EXPENSE.



*AS MEASURED FROM END OF APPROACH SLAB

LEGEND

	CONCRETE REMOVAL		PAVED SHOULDER REMOVAL
	APPROACH SLAB REMOVAL		PAVEMENT REMOVAL
	BRIDGE APPROACH SHOULDER REMOVAL		EARTH EXCAVATION



NOTE: EXISTING NAME PLATE SHALL BE CAREFULLY REMOVED AND INCORPORATED INTO THE NEW CONSTRUCTION AS DIRECTED BY THE ENGINEER. COST SHALL BE INCLUDED WITH CONSTRUCTION SUPERSTRUCTURE.

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 PROJECT: 053-0027

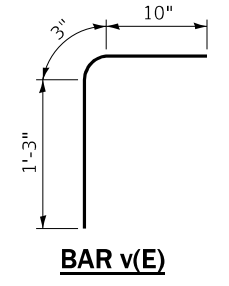
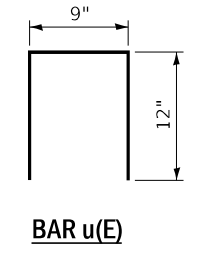
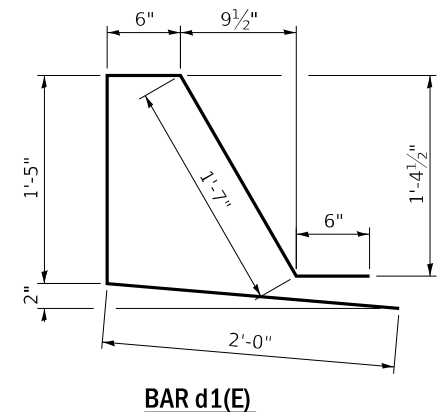
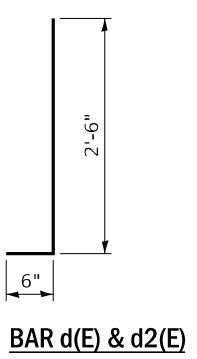
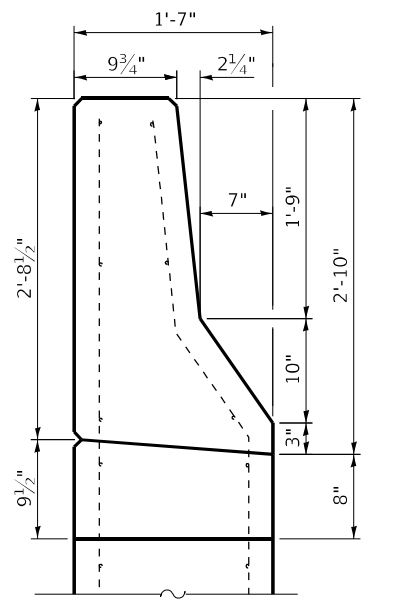
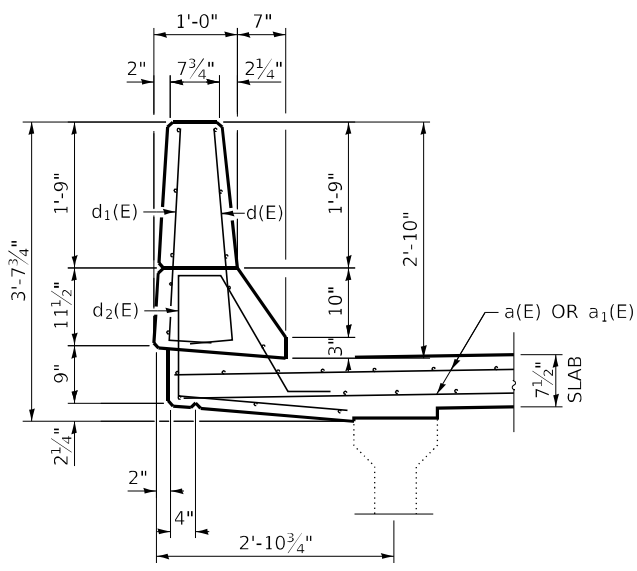
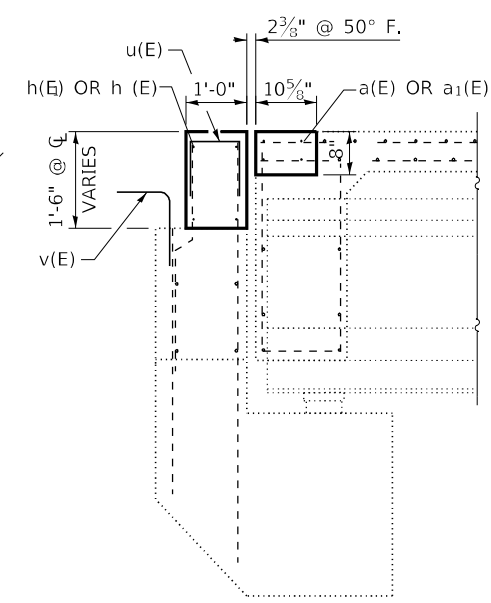
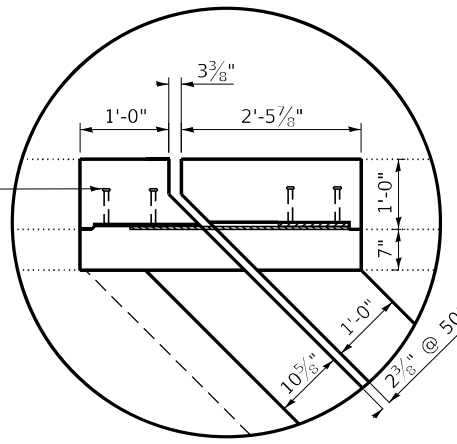
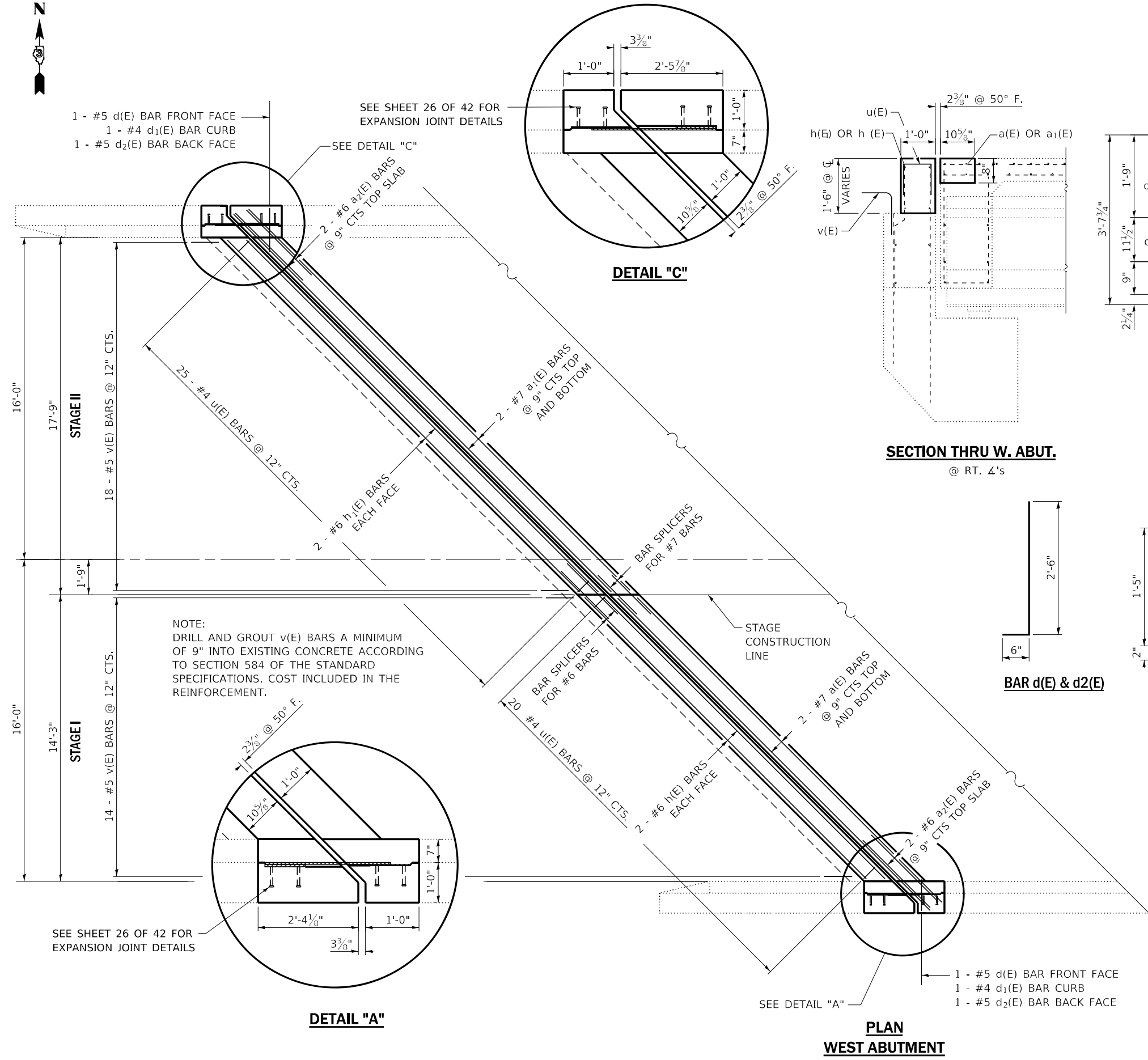
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DRAWN - RW	REVISIONS -	
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PLOT DATE = 10/19/2022	DATE - 7/5/2022	REVISIONS -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**REMOVAL DETAILS
FOR STRUCTURE NO. 053-0027**

SCALE: SHEET 2 OF 13 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
649	(108BR-2, 108-BR-3)BRR	LIVINGSTON	42	18
			CONTRACT NO. 66M75	
ILLINOIS FED. AID PROJECT				



**BILL OF MATERIAL
WEST ABUTMENT**

BAR	NO.	SIZE	LENGTH	SHAPE
a(E)	4	#7	22'-3"	—
a1(E)	4	#7	26'-5"	—
a2(E)	4	#6	4'-0"	—
d(E)	2	#5	3'-0"	┌
d1(E)	2	#5	6'-0"	┌
d2(E)	2	#4	3'-0"	┌
h(E)	4	#6	19'-10"	—
h1(E)	4	#6	24'-9"	—
u(E)	45	#4	2'-9"	—
v(E)	45	#5	2'-4"	┌
CONCRETE SUPERSTRUCTURE			CU. YD.	4.8
REINFORCEMENT BARS, EPOXY COATED			POUND	910
BRIDGE DECK GROOVING			SQ YD	9
PROTECTIVE COAT			SQ YD	11

USER NAME = ronald.woodshank	DESIGNED - RW	REVISED -
DRAWN - RW	REVISED -	
PLOT SCALE = 100.00' / in.	CHECKED - YP	REVISED -
PLOT DATE = 10/19/2022	DATE - 7/5/2022	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

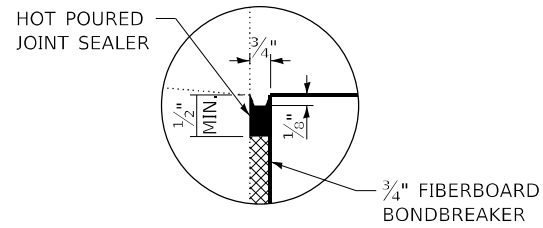
**EXPANSION JOINT RECONSTRUCTION DETAILS
AT WEST ABUTMENT FOR STRUCTURE NO. 053-0027**

SCALE: SHEET 4 OF 13 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
649	(108BR-2, 108-BR-3)BRR	LIVINGSTON	42	20
			CONTRACT NO. 66M75	
			ILLINOIS FED. AID PROJECT	

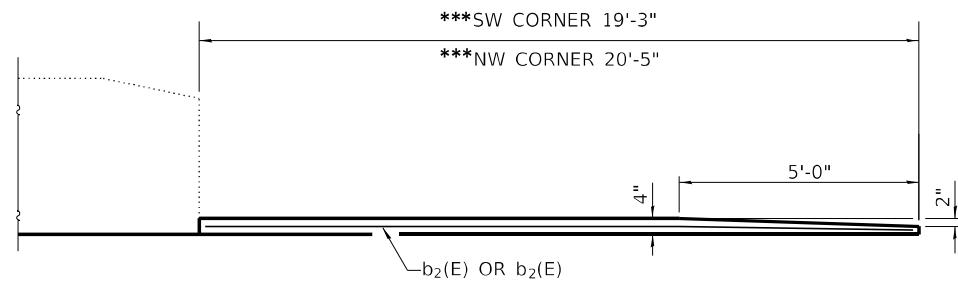
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***AS MEASURED ALONG INSIDE FACE OF CURB

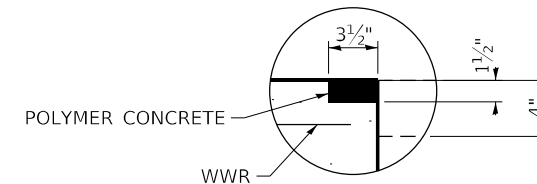


DETAIL F

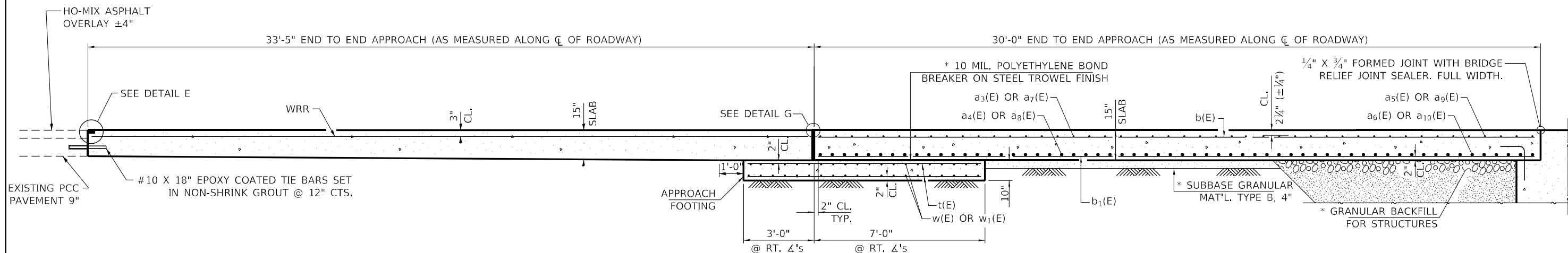
COSTS INCLUDE WITH CONCRETE SUPERSTRUCTURE (APPROACH SLAB)



INSIDE ELEVATION OF PARAPET AND CURB



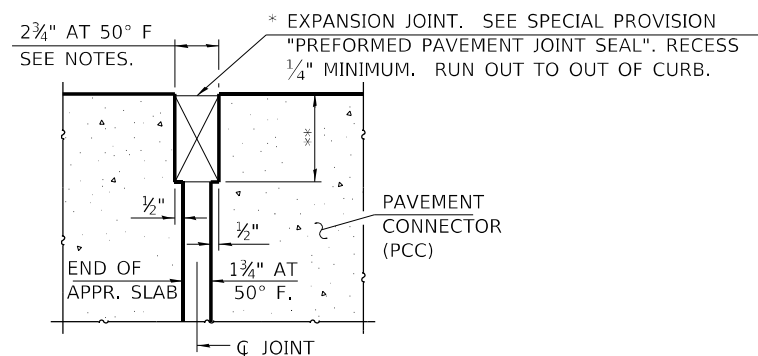
DETAIL E



LONGITUDINAL SECTION

NOTES:

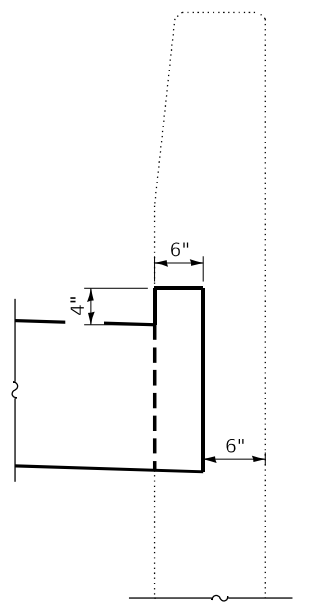
- WHENEVER NECESSARY, REINFORCEMENT BARS SHALL BE CUT TO FIT EXISTING SHOULDER DRAINS AND PARAPET TRANSITIONS.



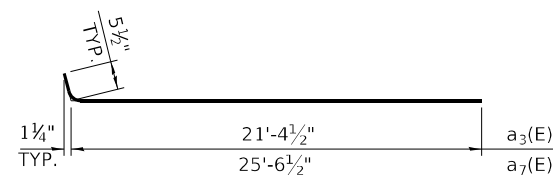
DETAIL G
(AT RT. \angle 'S)

* COST INCLUDED WITH CONCRETE SUPERSTRUCTURE (APPROACH SLAB).

** PER MANUFACTURER RECOMMENDATIONS



SECTION AT CURB



BAR a3(E), a 7(E)

BILL OF MATERIAL

WEST APPROACH SLAB & PAVEMENT CONNECTOR

BAR	NO.	SIZE	LENGTH	SHAPE
a3(E)	24	#5	21'-10"	U
a4(E)	32	#8	21'-5"	U
a5(E)	8	#5	20'-2"	U
a6(E)	10	#8	20'-2"	U
a7(E)	24	#5	26'-0"	U
a8(E)	32	#8	25'-8"	U
a9(E)	8	#5	24'-4"	U
a10(E)	10	#8	24'-4"	U
b(E)	51	#5	29'-8"	U
b1(E)	81	#9	29'-8"	U
b2(E)	1	#5	18'-9"	U
b3(E)	1	#9	20'-3"	U
t(E)	68	#4	13'-9"	U
w(E)	40	#5	21'-5"	U
w1(E)	40	#5	25'-8"	U
CONCRETE SUPERSTRUCTURE (APPROACH SLAB)			CU. YD.	46.5
CONCRETE STRUCTURES			CU. YD.	15
PAVEMENT CONNECTOR (PCC) FOR BRIDGE APPROACH SLAB			SQ. YD.	122
REINFORCEMENT BARS, EPOXY COATED			POUND	19230
WELDED WIRE REINFORCEMENT			SQ YD	122
BRIDGE DECK GROOVING			SQ YD	216
PROTECTIVE COAT			SQ YD	234
POLYMER CONCRETE			CU FT	1.2

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PLOT SCALE = 100.00' / in.	DRAWN - RW	REVISED -
PLOT DATE = 10/19/2022	CHECKED - YP	REVISED -
	DATE - 7/5/2022	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**APPROACH SLAB/PAVEMENT CONNECTOR (PCC) DETAILS
AT WEST ABUTMENT FOR STRUCTURE NO. 053-0027**

SCALE: SHEET 6 OF 13 SHEETS STA. TO STA.

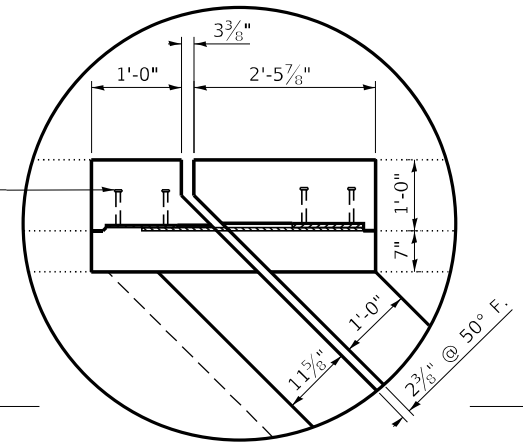
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
649	(108BR-2, 108-BR-3)BRR	LIVINGSTON	42	22
CONTRACT NO. 66M75				
ILLINOIS FED. AID PROJECT				



1 - #5 d(E) BAR FRONT FACE
 1 - #4 d₁(E) BAR CURB
 1 - #5 d₂(E) BAR BACK FACE

SEE DETAIL "D"

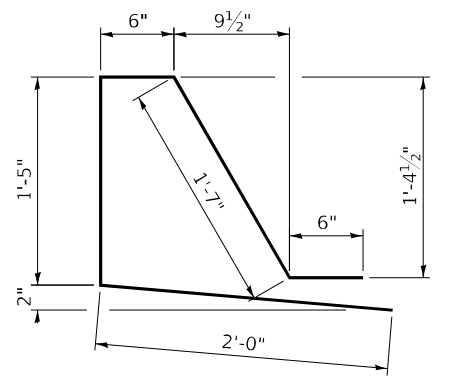
SEE SHEET 26 OF 42 FOR EXPANSION JOINT DETAILS



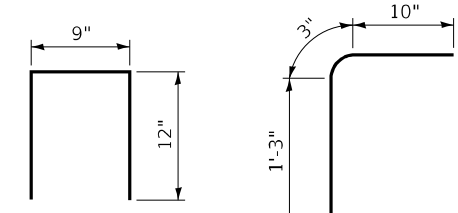
DETAIL "D"

NOTE:
 DRILL AND GROUT v(E) BARS A MINIMUM OF 9" INTO EXISTING CONCRETE ACCORDING TO SECTION 584 OF THE STANDARD SPECIFICATIONS. COST INCLUDED IN THE REINFORCEMENT.

BAR d(E) & d2(E)

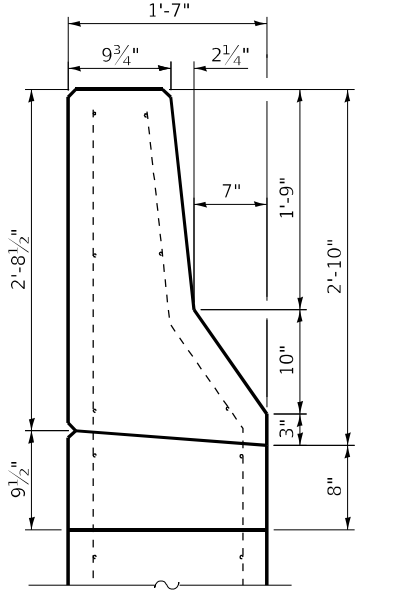


BAR d1(E)

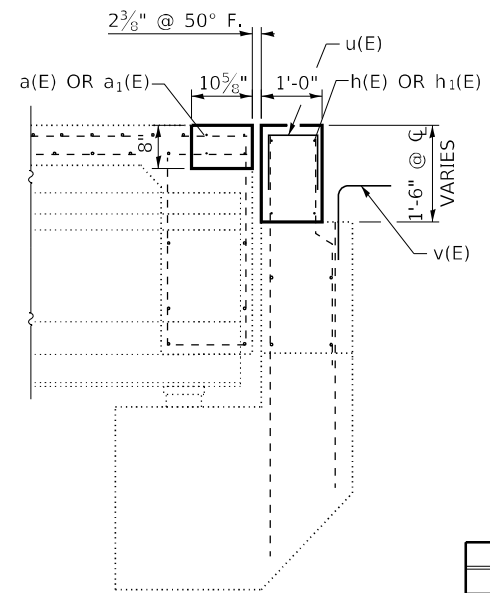


BAR u(E)

BAR v(E)



SECTION THRU WING WALL

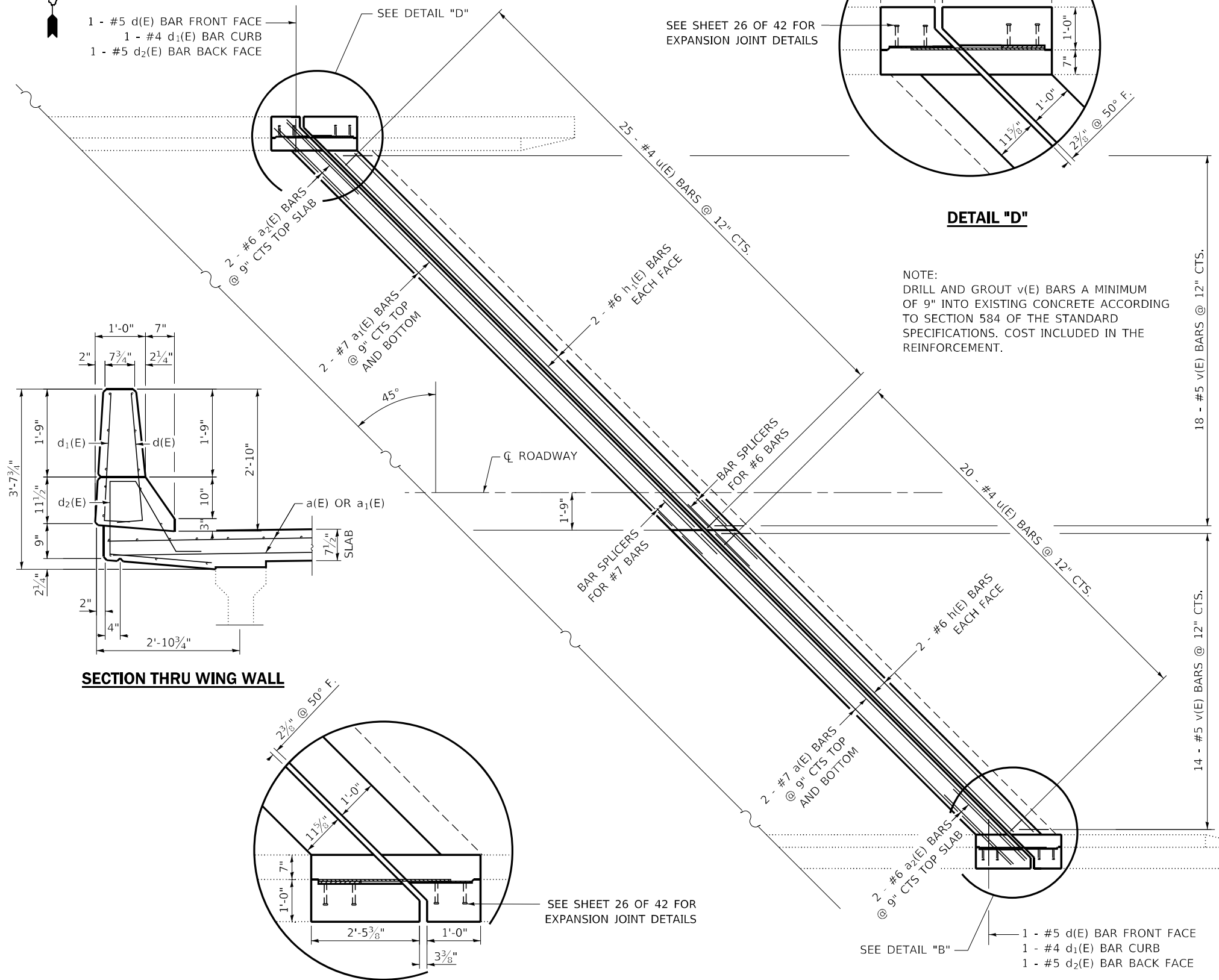


SECTION THRU E. ABUT.

@ RT. Δ's

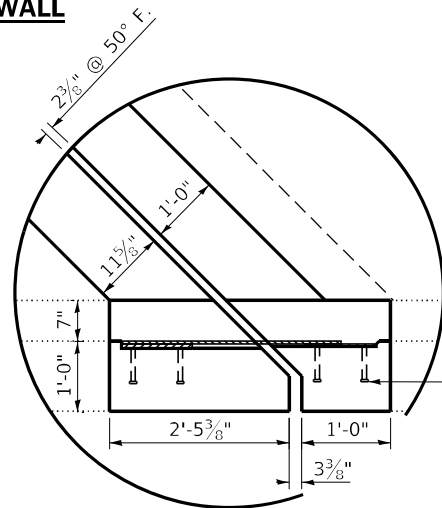
**BILL OF MATERIAL
 EAST ABUTMENT**

BAR	NO.	SIZE	LENGTH	SHAPE
a(E)	4	#7	22'-3"	—
a1(E)	4	#7	26'-5"	—
a2(E)	4	#6	4'-0"	—
d(E)	2	#5	3'-0"	┌
d1(E)	2	#5	6'-0"	┌
d2(E)	2	#4	3'-0"	┌
h(E)	4	#6	19'-10"	—
h1(E)	4	#6	24'-9"	—
u(E)	45	#4	2'-9"	—
v(E)	45	#5	2'-4"	┌
CONCRETE SUPERSTRUCTURE			CU. YD.	4.8
REINFORCEMENT BARS, EPOXY COATED			POUND	910
BRIDGE DECK GROOVING			SQ YD	9
PROTECTIVE COAT			SQ YD	11



**PLAN
 EAST ABUTMENT**

SECTION THRU WING WALL



DETAIL "B"

SEE SHEET 26 OF 42 FOR EXPANSION JOINT DETAILS

SEE DETAIL "B"

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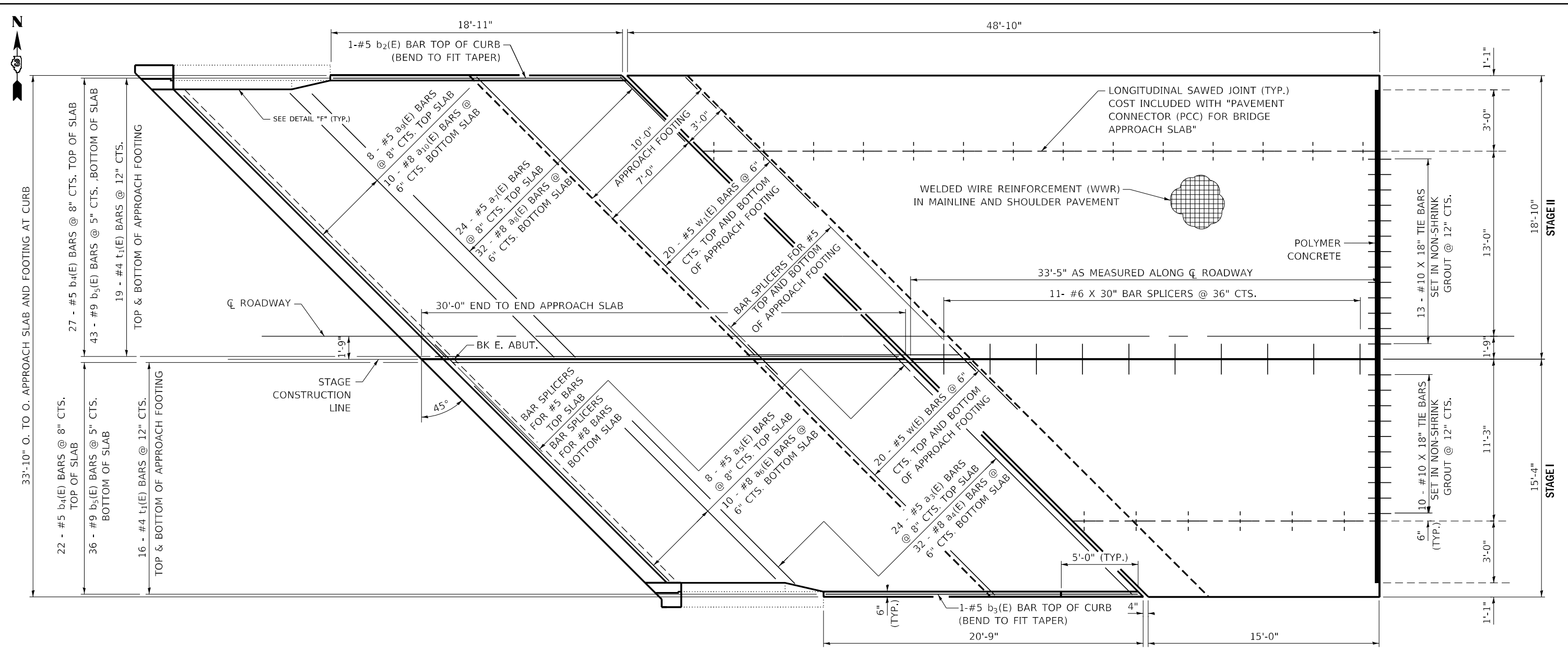
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PLOT DATE = 10/19/2022	CHECKED - YP	REVISED -
	DATE - 7/5/2022	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**EXPANSION JOINT RECONSTRUCTION DETAILS
 AT EAST ABUTMENT FOR STRUCTURE NO. 053-0027**

SCALE: SHEET 7 OF 13 SHEETS STA. TO STA.

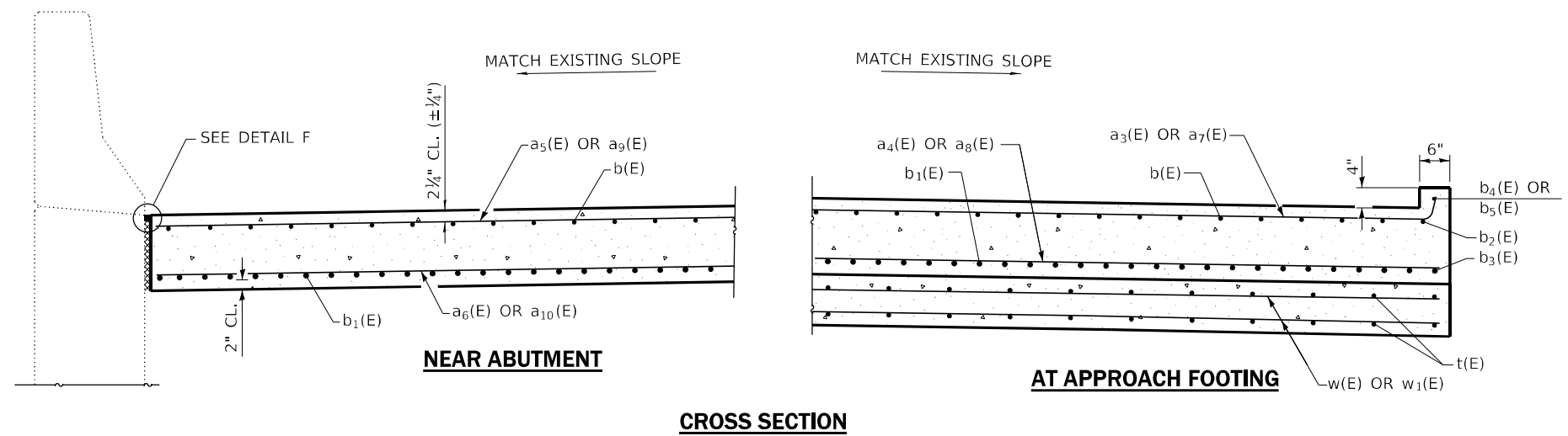
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
649	(108BR-2, 108BR-3)BRRR	LIVINGSTON	42	23
			CONTRACT NO. 66M75	
ILLINOIS FED. AID PROJECT				



CONCRETE SUPERSTRUCTURE (APPROACH SLAB)

PAVEMENT CONNECTOR (PCC) FOR APPROACH SLAB

PLAN



CROSS SECTION

NOTES:

1. WHEN NECESSARY, REINFORCEMENT BARS SHALL BE CUT TO PROVIDE A MINIMUM OF 1 1/2" CLEARANCE AROUND EXISTING SHOULDER DRAINS AND PARAPET CURB TRANSITIONS.
2. THE JOINT OPENING SHALL BE ADJUSTED FOR TEMPERATURE PER ARTICLE 520.04 OF THE STANDARD SPECIFICATIONS.
3. PARAPET CONCRETE SHALL BE PAID FOR AS CONCRETE SUPERSTRUCTURE.
4. APPROACH SLAB SHALL BE PAID FOR AS CONCRETE SUPERSTRUCTURE (APPROACH SLAB).
5. APPROACH FOOTING CONCRETE SHALL BE PAID FOR AS CONCRETE STRUCTURES.
6. THE APPROACH FOOTING MAXIMUM APPLIED SERVICE BEARING PRESSURE (QMAX) = 2.0 KSF. COST OF EXCAVATION FOR APPROACH SLAB/FOOTING INCLUDED WITH CONCRETE STRUCTURES.

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 PROJECT: 10366675

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	DRAWN - RW	REVISED -
PLOT SCALE = 100.00' / in.	CHECKED - YP	REVISED -
PLOT DATE = 10/19/2022	DATE - 7/5/2022	REVISED -

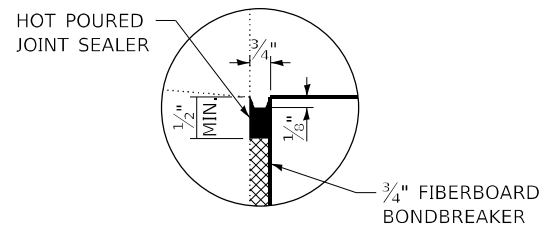
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**BRIDGE APPROACH SLAB/PAVEMENT CONNECTOR (PCC)
AT EAST ABUTMENT FOR STRUCTURE NO. 053-0027**

SCALE: SHEET 8 OF 13 SHEETS STA. TO STA.

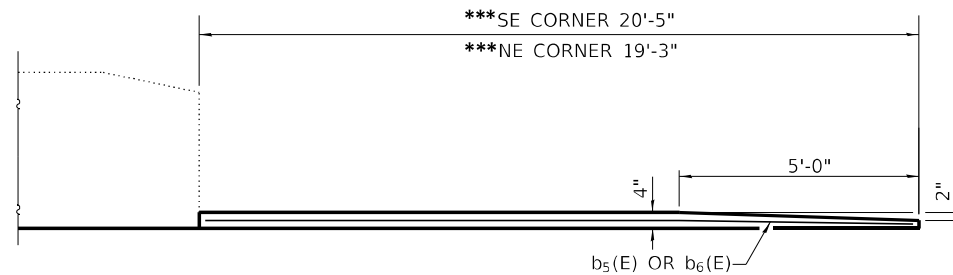
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
649	(108BR-2, 108-BR-3)BRR	LIVINGSTON	42	24
ILLINOIS FED. AID PROJECT			CONTRACT NO. 66M75	

***AS MEASURED ALONG INSIDE FACE OF CURB

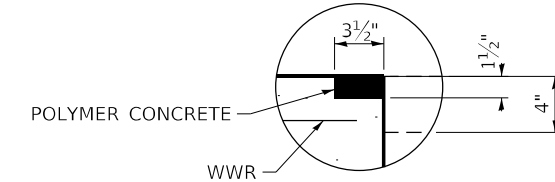


DETAIL F

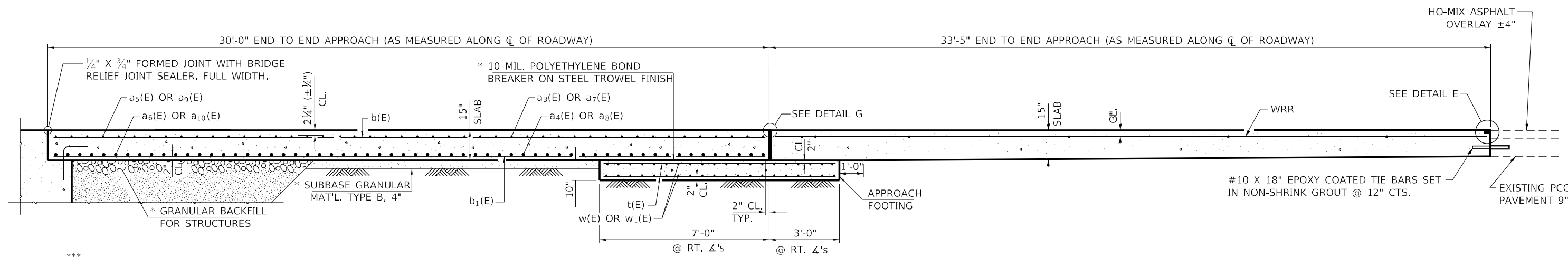
COSTS INCLUDE WITH CONCRETE SUPERSTRUCTURE (APPROACH SLAB)



INSIDE ELEVATION OF PARAPET AND CURB



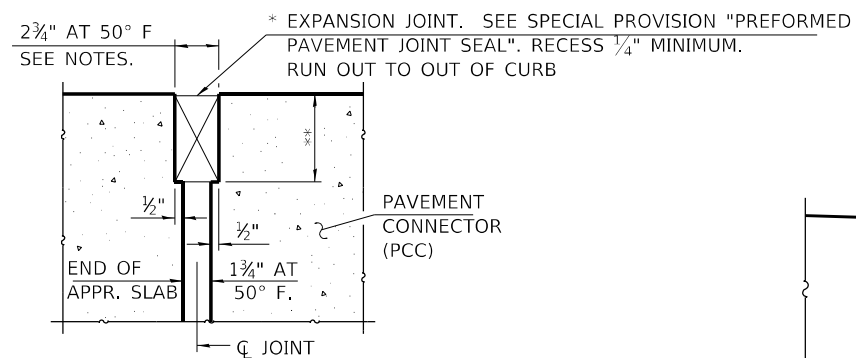
DETAIL E



LONGITUDINAL SECTION

**BILL OF MATERIAL
EAST APPROACH SLAB & PAVEMENT CONNECTOR**

BAR	NO.	SIZE	LENGTH	SHAPE
a3(E)	24	#5	21'-10"	┌───┐
a4(E)	32	#8	21'-5"	┌───┐
a5(E)	8	#5	20'-2"	┌───┐
a6(E)	10	#8	20'-2"	┌───┐
a7(E)	24	#5	26'-0"	┌───┐
a8(E)	32	#8	25'-8"	┌───┐
a9(E)	8	#5	24'-4"	┌───┐
a10(E)	10	#8	24'-4"	┌───┐
b(E)	51	#5	29'-8"	┌───┐
b1(E)	81	#9	29'-8"	┌───┐
b2(E)	1	#5	18'-9"	┌───┐
b3(E)	1	#9	20'-3"	┌───┐
t(E)	68	#4	13'-9"	┌───┐
w(E)	40	#5	21'-5"	┌───┐
w1(E)	40	#5	25'-8"	┌───┐
CONCRETE SUPERSTRUCTURE (APPROACH SLAB)			CU. YD.	46.5
CONCRETE STRUCTURES			CU. YD.	15
PAVEMENT CONNECTOR (PCC) FOR BRIDGE APPROACH SLAB			SQ. YD.	122
REINFORCEMENT BARS, EPOXY COATED			POUND	19230
WELDED WIRE REINFORCEMENT			SQ. YD.	122
BRIDGE DECK GROOVING			SQ. YD.	212
PROTECTIVE COAT			SQ. YD.	234
POLYMER CONCRETE			CU. FT.	1.2

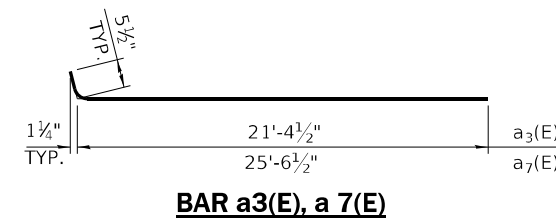


DETAIL G

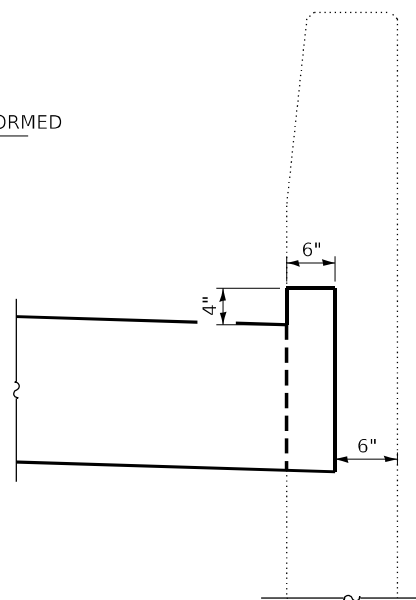
(AT RT. ∠'S)

* COST INCLUDED WITH CONCRETE SUPERSTRUCTURE (APPROACH SLAB).

** PER MANUFACTURER RECOMMENDATIONS



BAR a3(E), a 7(E)



SECTION AT CURB

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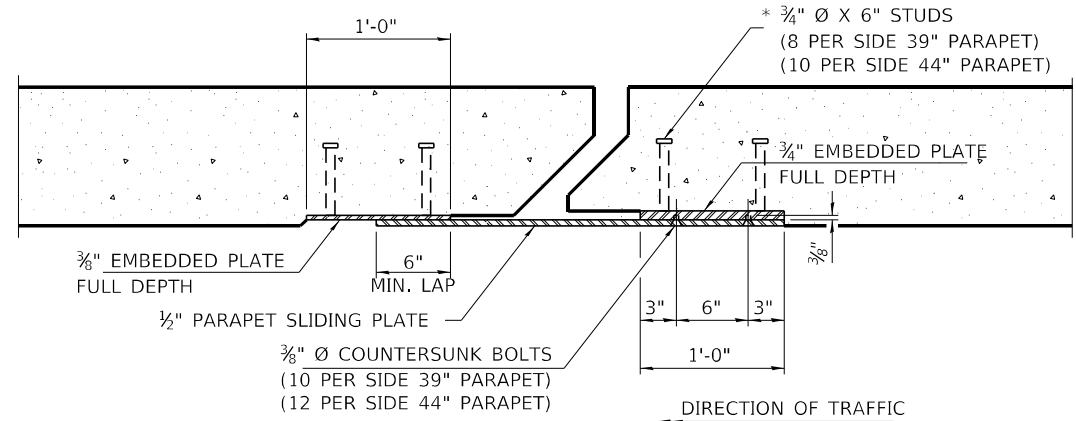
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PLOT DATE = 10/19/2022	CHECKED - YP	REVISED -
	DATE - 7/5/2022	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

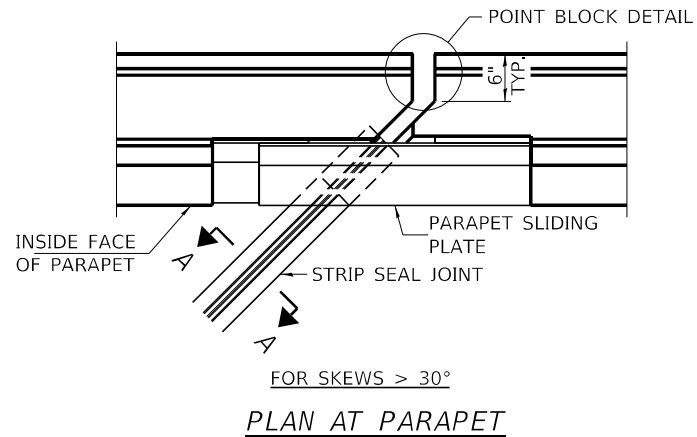
**APPROACH SLAB/PAVEMENT CONNECTOR (PCC) DETAILS
AT EAST ABUTMENT FOR STRUCTURE NO. 053-0027**

SCALE: SHEET 9 OF 13 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
649	(108BR-2, 108-BR-3)BRR	LIVINGSTON	42	25
			CONTRACT NO. 66M75	
ILLINOIS FED. AID PROJECT				



SECTION B-B



PLAN AT PARAPET

NOTES:

THE STRIP SEAL SHALL BE MADE CONTINUOUS AND SHALL HAVE A MINIMUM THICKNESS OF 1/4". THE CONFIGURATION OF THE STRIP SEAL SHALL MATCH THE CONFIGURATION OF THE LOCKING EDGE RAILS. OPEN OR "WEBBED" STRIP SEAL GLAND CONFIGURATIONS ARE NOT PERMITTED. THE GLAND SHALL BE SIZED FOR A MAXIMUM RATED MOVEMENT OF 4 INCHES.

THE LOCKING EDGE RAILS DEPICTED ARE CONFIGURED FOR TYPICAL APPLICATIONS AND ARE CONCEPTUAL ONLY. THE ACTUAL CONFIGURATION OF THE LOCKING EDGE RAILS AND MATCHING STRIP SEAL MAY VARY FROM MANUFACTURER TO MANUFACTURER PROVIDED THEY FIT THE APPLICATION AND MEET THE MINIMUM ANCHORAGE SHOWN. FLANGED EDGE RAILS, HOWEVER, WILL NOT BE ALLOWED. LOCKING EDGE RAILS MAY EXCEED THE 4 1/2" MAXIMUM DEPTH PROVIDED THE ANCHORAGE SYSTEM IS REVISED ACCORDING TO THE MANUFACTURER'S RECOMMENDATION.

THE MANUFACTURER'S RECOMMENDED INSTALLATION METHODS SHALL BE FOLLOWED.

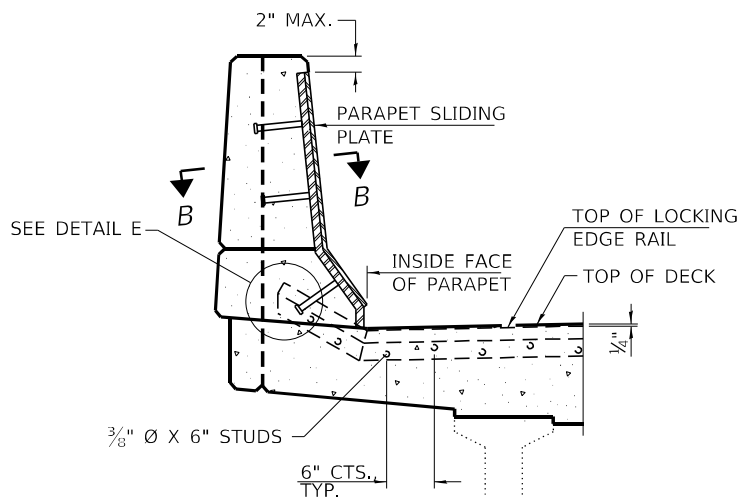
ALL STEEL COMPONENTS SHALL BE GALVANIZED AFTER FABRICATION ACCORDING TO ARTICLE 520.03 OF THE STANDARD SPECIFICATIONS.

THE MAXIMUM SPACE BETWEEN LOCKING EDGE RAIL SEGMENTS SHALL BE 1/16" AND SEALED WITH A SUITABLE SEALANT; HOWEVER, ANY RAIL JOINT WITHIN 10' MEASURED PERPENDICULAR TO THE FACE OF THE CURB OR PARAPET SHALL BE WELDED AS SHOWN IN THE LOCKING EDGE RAIL SPLICE DETAIL.

COST OF PARAPET SLIDING PLATES, EMBEDDED PLATES, AND ANCHORAGE STUDS INCLUDED WITH PREFORMED JOINT STRIP SEAL.

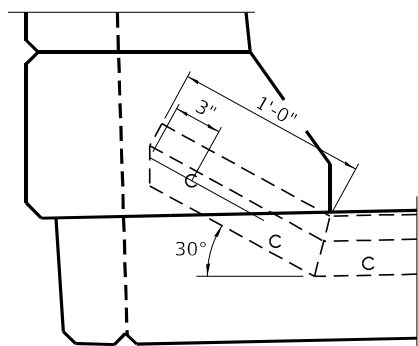
34" F-SHAPE BARRIER SHOWN, 42" F-SHAPE SIMILAR AS NOTED.

THE CONCRETE OPENING BELOW THE STRIP SEAL WILL VARY BASED ON THE LOCKING EDGE RAIL CHOSEN BY THE CONTRACTOR. DECK AND PARAPET LENGTHS SHOWN ELSEWHERE IN THE PLANS ARE DIMENSIONED TO THE CONCRETE OPENING, NOT THE JOINT OPENING, AND ARE BASED ON THE ROLLED LOCKING EDGE RAIL. IF THE CONTRACTOR ELECTS TO USE A DIFFERENT LOCKING EDGE RAIL, DIMENSIONAL ADJUSTMENTS MAY BE REQUIRED. ONE EXCEPTION TO THIS WOULD BE THE STRIP SEAL JOINT AT THE END OF THE PRECAST BRIDGE APPROACH SLAB. FOR THESE CASES THE PAVEMENT CONNECTOR LENGTH SHALL BE ADJUSTED, NOT THE LENGTH OF THE BRIDGE APPROACH SLAB.

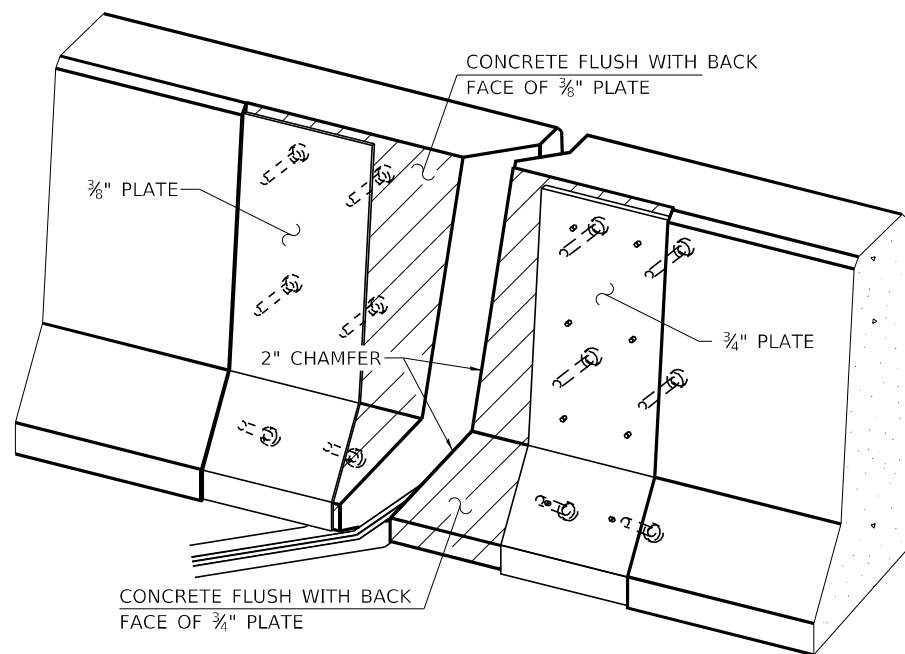


ELEVATION AT PARAPET

(SKEWS > 30° SHOWN.)

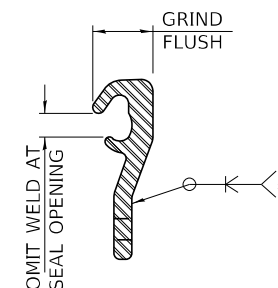


DETAIL E



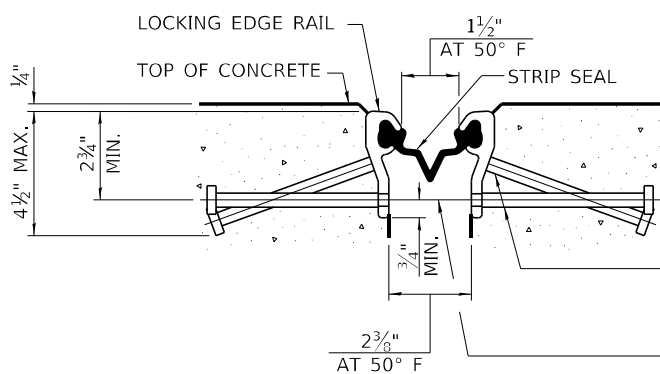
TRIMETRIC VIEW

(SHOWING EMBEDDED PLATES ONLY)



LOCKING EDGE RAIL SPLICE

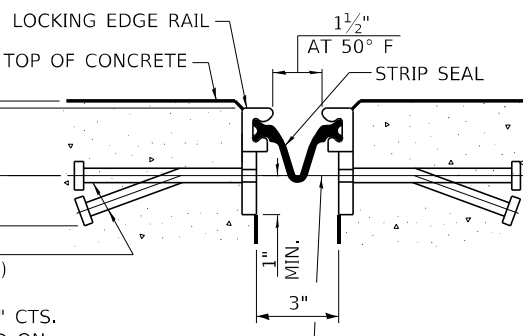
THE INSIDE OF THE LOCKING EDGE RAIL GROOVE SHALL BE FREE OF WELD RESIDUE. ROLLED RAIL SHOWN, WELDED RAIL SIMILAR.



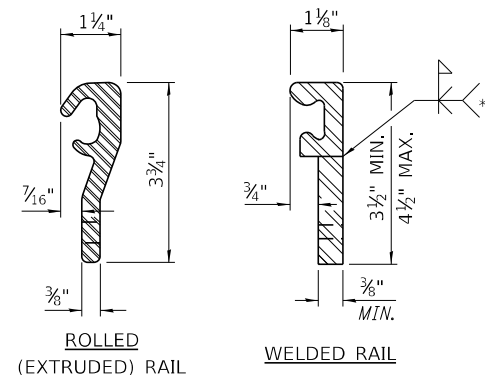
SHOWING ROLLED RAIL JOINT

* 3/8" Ø X 6" STUDS @ 6" CTS. (ALTERNATE ANGLED/BENT STUDS WITH HORIZONTAL STUDS)

3/8" Ø THREADED RODS IN 7/16" Ø 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.



SHOWING WELDED RAIL JOINT



LOCKING EDGE RAILS

** BACK GOUGE NOT REQUIRED IF COMPLETE JOINT PENETRATION IS VERIFIED BY MOCK-UP.

SECTION A-A

* GRANULAR OR SOLID FLUX FILLED HEADED STUDS CONFORMING TO ARTICLE 1006.32 OF THE STD. SPECS., AUTOMATICALLY END WELDED.

**BILL OF MATERIAL
STRUCTURE NO. 053-0027**

	ITEM	UNIT	TOTAL
W. ABUT.	PREFORMED JOINT STRIP SEAL	FOOT	48
E. ABUT.	PREFORMED JOINT STRIP SEAL	FOOT	48

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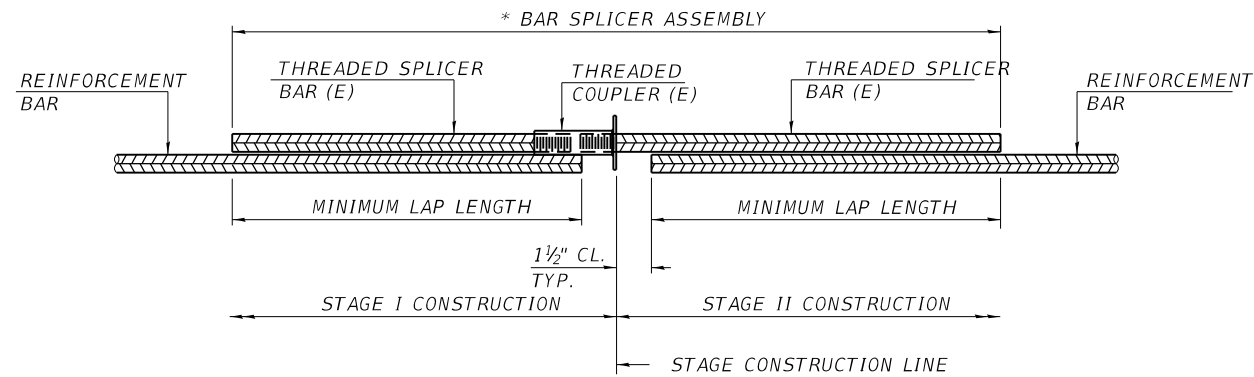
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PLOT DATE = 10/19/2022	CHECKED - YP	REVISED -
	DATE - 7/5/2022	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**EXPANSION JOINT RECONSTRUCTION DETAILS
FOR STRUCTURE NO. 053-0027**

SCALE: SHEET 10 OF 13 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
649	(108BR-2, 108-BR-3)BRR	LIVINGSTON	42	26
			CONTRACT NO. 66M75	
ILLINOIS FED. AID PROJECT				



STANDARD BAR SPLICER ASSEMBLY PLAN
(ALL COMPONENTS SHALL BE PROVIDED FROM ONE SUPPLIER)

THREADED SPLICER BAR LENGTH = MIN. LAP LENGTH + 1 1/2" + THREAD LENGTH

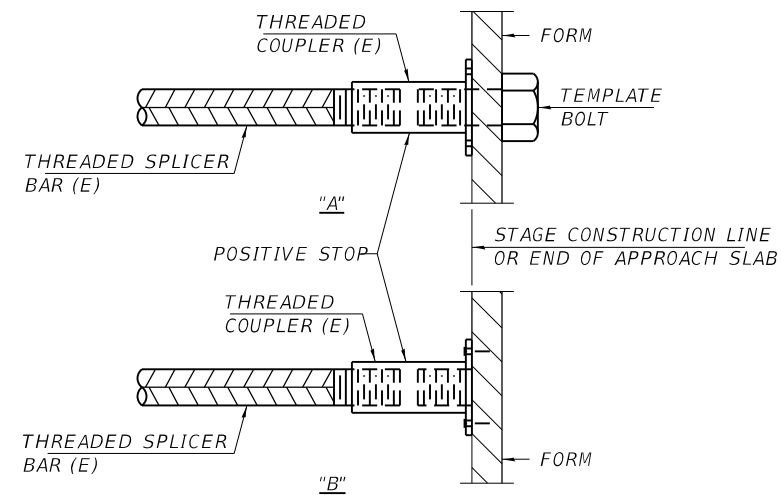
* EPOXY NOT REQUIRED ON BAR SPLICER ASSEMBLY COMPONENTS USED IN CONJUNCTION WITH BLACK BARS.

STRUCTURE 053-0027

LOCATION	BAR SIZE	NO. ASSEMBLIES REQUIRED	MINIMUM LAP LENGTH
W. ABUT. - HATCH BLOCK	#6	4	4'-0"
W. ABUT. - DECK	#7	4	6'-3"
W. ABUT. APPROACH SLAB	#5	32	3'-0"
	#8	42	4'-9"
W. ABUT. APPROACH FOOTING	#5	40	3'-0"
W. ABUT. PAVEMENT CONNECTOR	#6	11	N/A

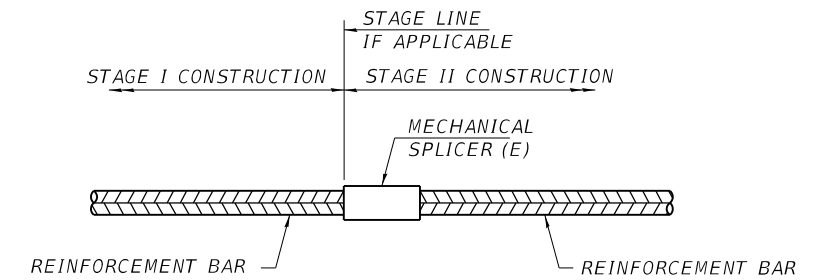
STRUCTURE 053-0167

LOCATION	BAR SIZE	NO. ASSEMBLIES REQUIRED	MINIMUM LAP LENGTH
W. ABUT. - HATCH BLOCK	#6	4	4'-0"
W. ABUT. - DECK	#7	4	6'-3"
W. ABUT. APPROACH SLAB	#5	32	3'-0"
	#8	42	4'-9"
W. ABUT. APPROACH FOOTING	#5	40	3'-0"
W. ABUT. PAVEMENT CONNECTOR	#6	11	N/A



INSTALLATION AND SETTING METHODS

"A" : SET BAR SPLICER ASSEMBLY BY MEANS OF A TEMPLATE BOLT.
 "B" : SET BAR SPLICER ASSEMBLY BY NAILING TO WOOD FORMS OR CEMENTING TO STEEL FORMS.
 (E) : INDICATES EPOXY COATING.



STANDARD MECHANICAL SPLICER

LOCATION	BAR SIZE	NO. ASSEMBLIES REQUIRED

NOTES:
 SPLICER BARS SHALL BE DEFORMED WITH THREADED ENDS AND HAVE A MINIMUM 60 KSI YIELD STRENGTH.
 ALL REINFORCEMENT SHALL BE LAPPED AND TIED TO THE SPLICER BARS.
 BAR SPLICER ASSEMBLIES SHALL BE EPOXY COATED ACCORDING TO THE REQUIREMENTS FOR REINFORCEMENT BARS. SEE SECTION 508 OF THE STANDARD SPECIFICATIONS.
 SEE APPROVED LIST OF BAR SPLICER ASSEMBLIES AND MECHANICAL SPLICERS FOR ALTERNATIVES.

BSD-1

1-1-2020

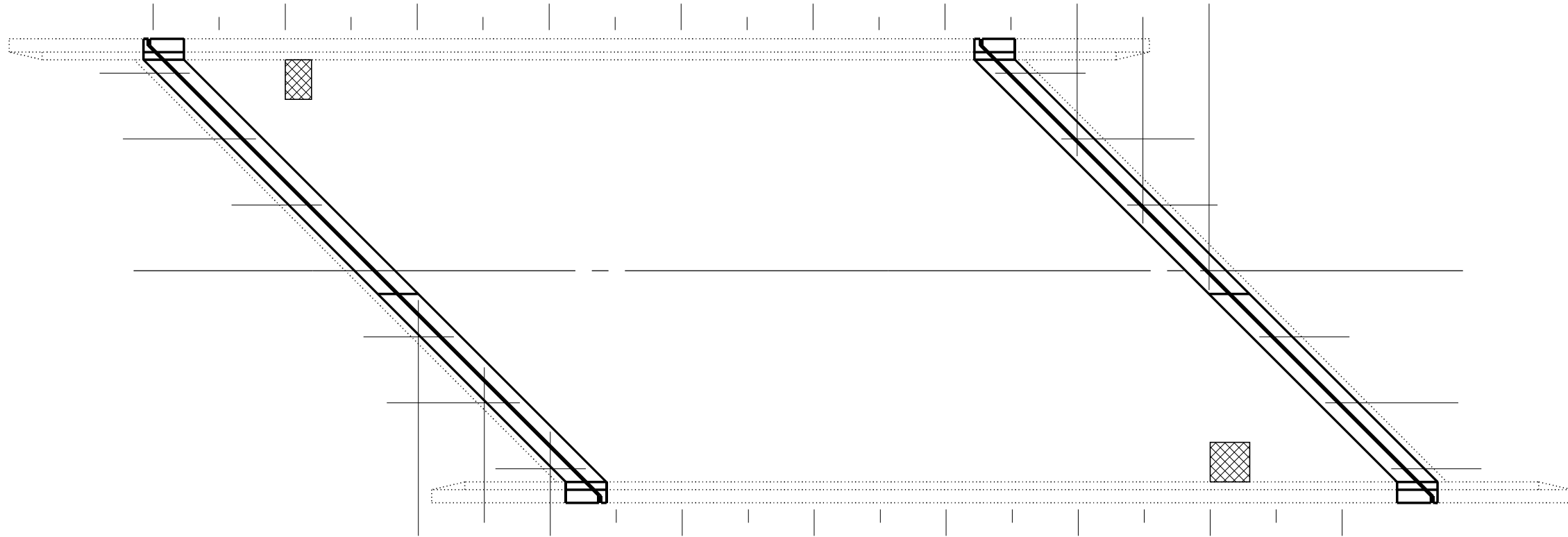
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BAR SPLICER ASSEMBLY AND MECHANICAL SPLICER DETAILS
FOR STRUCTURE NO. 053-0027

SCALE: SHEET 11 OF 13 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
649	(108BR-2, 108-BR-3)BRR	LIVINGSTON	42	27
CONTRACT NO. 66M75			ILLINOIS FED. AID PROJECT	

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PLAN
STRUCTURE NO.053-0027
DECK SLAB REPAIR

NOTE:

THE DECK SLAB REPAIR AREAS SHOWN ARE ESTIMATED. THE ENGINEER SHALL SOUND THE ENTIRE DECK SURFACE TO DETERMINE ACTUAL LOCATIONS AND AREAS OF DECK SLAB REPAIRS INCLUDING PARTIAL AND FULL DEPTH REPAIRS.

 DECK SLAB REPAIR (PARTIAL)

BILL OF MATERIAL

ITEM	UNIT	TOTAL
DECK SLAB REPAIR (PARTIAL)	SQ YD	3
PROTECTIVE COAT	SQ YD	3

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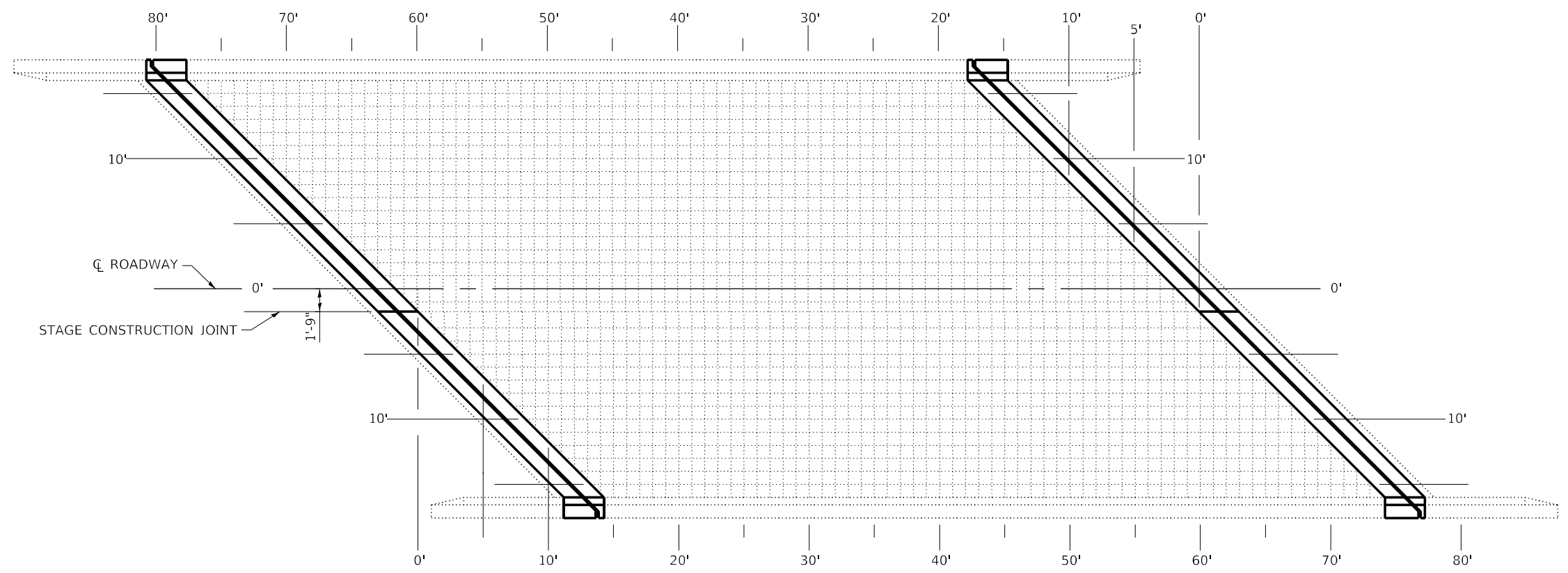
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DECK SLAB REPAIR DETAILS
FOR STRUCTURE NO. 053-0027

SCALE: SHEET 12 OF 13 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
649	(108BR-2, 108-BR-3)BRR	LIVINGSTON	42	28
			CONTRACT NO. 66M75	
			ILLINOIS FED. AID PROJECT	



PLAN
STRUCTURE NO.053-0027
"AS-BUILT" DECK SLAB REPAIR

NOTE:

WHEN ALL DECK SLAB REPAIRS HAVE BEEN COMPLETED, THE ENGINEER SHALL SHALL RECORD THE ACTUAL DECK SLAB REPAIR LOCATIONS AND REPAIR AREAS ON THIS "AS-BUILT" PLAN SHEET. WHEN ALL DECK SLAB REPAIR AREAS HAVE BEEN SHOWN ON THIS DETAIL, THE "AS-BUILT" DECK SLAB REPAIRS SHALL BE SUBMITTED TO THE BRIDGE OFFICE FOR THEIR RECORD. "SEE COMMITMENTS".

"AS-BUILT"
BILL OF MATERIAL

ITEM	UNIT	TOTAL
DECK SLAB REPAIR (PARTIAL)	SQ YD	
DECK SLAB REPAIR (FULL DEPTH, TYPE I)	SQ YD	
DECK SLAB REPAIR (FULL DEPTH, TYPE II)	SQ YD	

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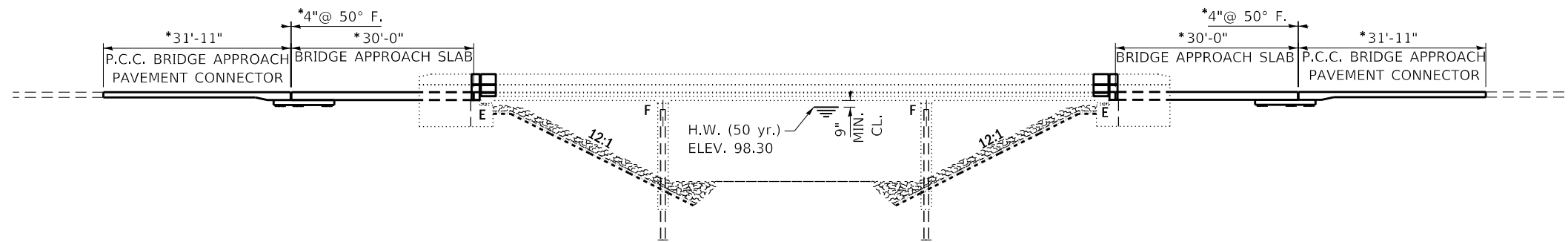
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

"AS-BUILT" DECK SLAB REPAIR DETAILS
FOR STRUCTURE NO. 053-00027

SCALE: SHEET 13 OF 13 SHEETS STA. TO STA.

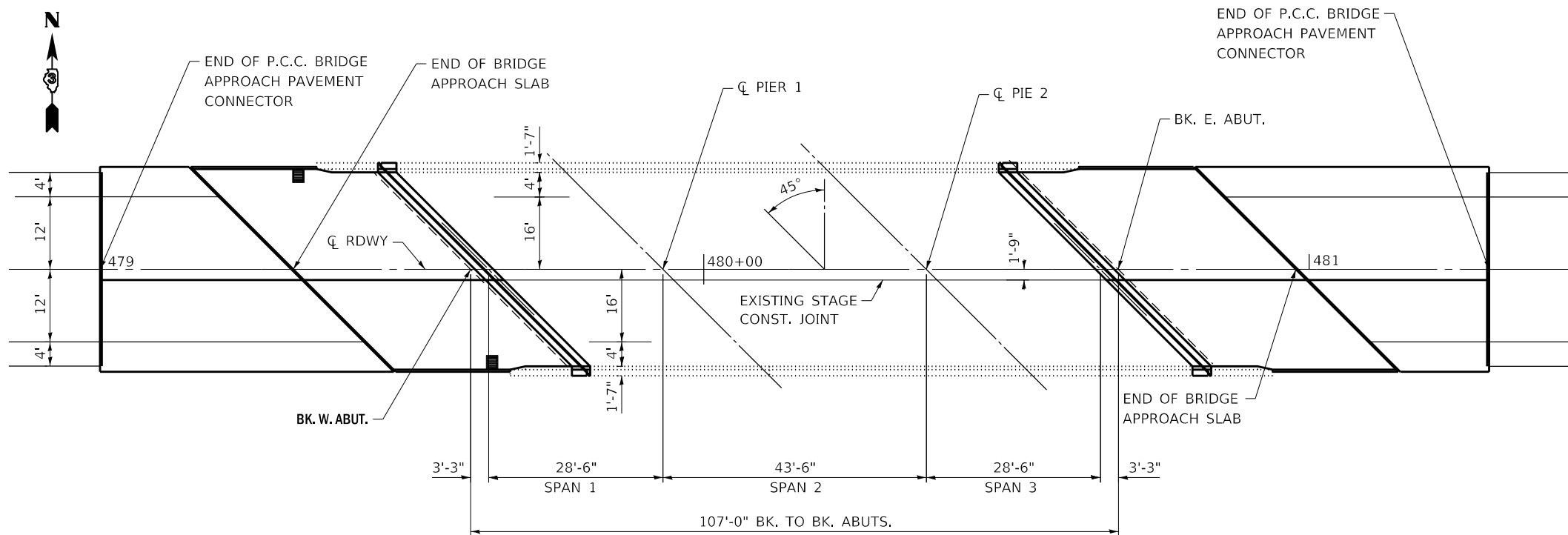
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
649	(108BR-2, 108-BR-3)BRR	LIVINGSTON	42	29
			CONTRACT NO. 66M75	
		ILLINOIS	FED. AID PROJECT	

*AS MEASURED ALONG THE C OF ROADWAY



ELEVATION

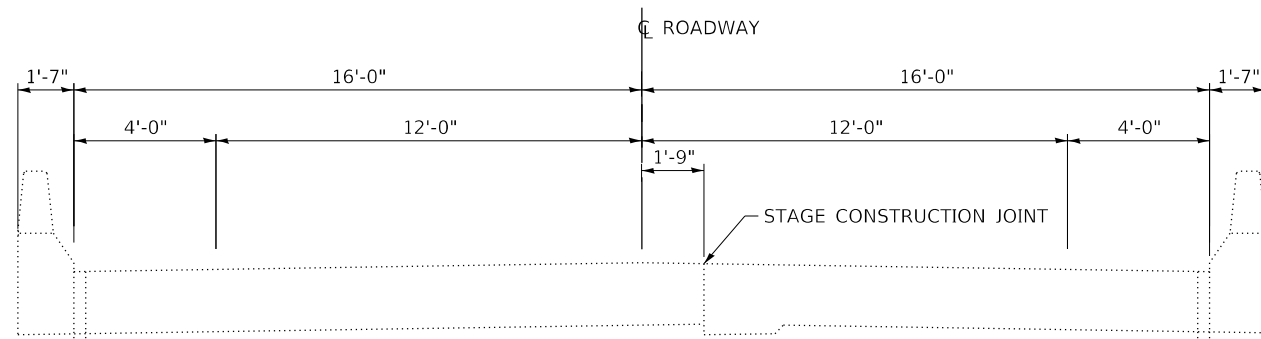
GUARDRAIL NOT SHOWN FOR CLARITY



PLAN

STRUCTURE NO. 053-0167

GUARDRAIL NOT SHOWN FOR CLARITY



CROSS SECTION

LOOKING EAST

GENERAL NOTES

PLAN DIMENSIONS AND DETAILS RELATIVE TO EXISTING PLANS ARE SUBJECT TO NOMINAL CONSTRUCTION VARIATIONS. THE CONTRACTOR SHALL FIELD VERIFY EXISTING DIMENSIONS AND DETAILS AFFECTING NEW CONSTRUCTION AND MAKE NECESSARY APPROVED ADJUSTMENTS PRIOR TO CONSTRUCTION OR ORDERING OF MATERIALS. SUCH VARIATIONS SHALL NOT BE CAUSE FOR ADDITIONAL COMPENSATION FOR A CHANGE IN SCOPE OF THE WORK, HOWEVER, THE CONTRACTOR WILL BE PAID FOR THE QUANTITY ACTUALLY FURNISHED AT THE UNIT PRICE BID FOR THE WORK.

CARE SHALL BE TAKEN DURING CONCRETE REMOVAL OPERATIONS SO THAT THE EXISTING P.C.C. I-BEAMS ARE NOT DAMAGED. IF THE I-BEAMS ARE DAMAGED DUE TO THE CONTRACTS OPERATIONS, THEY SHALL BE REPAIRED TO THE SATISFACTION OF THE ENGINEER AT THE CONTRACTORS EXPENSE.

STRUCTURAL STEEL FOR EXPANSION JOINTS SHALL BE AASHTO M 270, GRADE 60.

REINFORCEMENT BARS DESIGNATED (E) SHALL BE EPOXY COATED.

PROTECTIVE COAT SHALL BE APPLIED TO ALL NEW CONCRETE SURFACES.

EXISTING NAME PLATE SHALL BE REMOVED, CLEANED AND REINSTALLED INTO THE NEW CONSTRUCTION. COST INCLUDED WITH CONCRETE SUPERSTRUCTURES.

JOINT OPENING SHALL BE ADJUSTED ACCORDING TO ARTICLE 520.04 OF THE STANDARD SPECIFICATIONS WHEN THE DECK IS POURED AT AN AMBIENT TEMPERATURE OTHER THAN 50° FAHRENHEIT.

EXISTING REINFORCEMENT EXTENDING INTO REMOVAL AREAS SHALL BE CLEANED, STRAIGHTENED AND INCORPORATED INTO THE NEW CONSTRUCTION. ANY REINFORCEMENT BARS THAT ARE DAMAGED DURING CONCRETE REMOVAL OPERATIONS OR DETERIORATED BEYOND ITS SUITABILITY FOR CONSTRUCTION SHALL BE REPLACED WITH AN APPROVED BAR SPLICER OR ANCHORAGE SYSTEM. COST INCLUDED WITH CONCRETE REMOVAL.

TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
CONCRETE REMOVAL	CU. YD.	8.8
BRIDGE APPROACH SHOULDER REMOVAL	SQ. YD.	26
APPROACH SLAB REMOVAL	SQ. YD.	184
PAVEMENT REMOVAL	SQ. YD.	190
CONCRETE SUPERSTRUCTURE	CU. YD.	9.7
REINFORCEMENT BARS, EPOXY COATED	POUND	40280
BRIDGE DECK GROOVING	SQ. YD.	444
PROTECTIVE COAT	SQ. YD.	541
CONCRETE SUPERSTRUCTURE (APPROACH SLAB)	CU. YD.	93
PAVEMENT CONNECTOR (PCC) FOR BRIDGE APPROACH SLAB	SQ. YD.	244
CONCRETE STRUCTURES	CU. YD.	30
WELDED WIRE REINFORCEMENT	SQ. YD.	244
PREFORMED JOINT STRIP SEAL	FOOT	96
BAR SPLICERS	EACH	133
DECK SLAB REPAIR (PARTIAL)	SQ. YD.	51
POLYMER CONCRETE	CU. FT.	2.4



EXPIRES 11-30-2024

Jayme F. Schiff

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**GENERAL PLAN AND ELEVATION
FOR STRUCTURE NO. 053-0167**

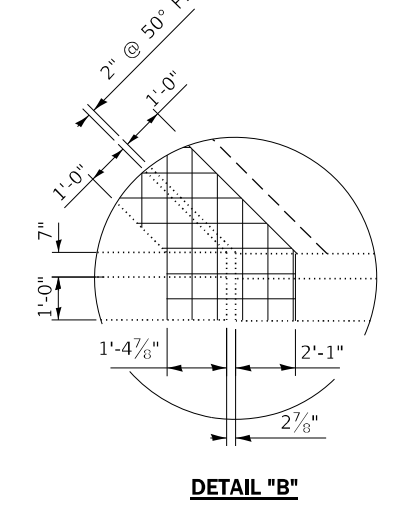
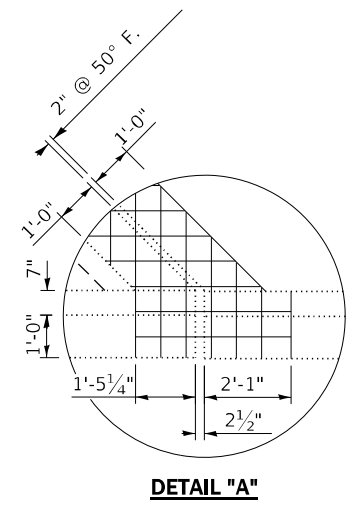
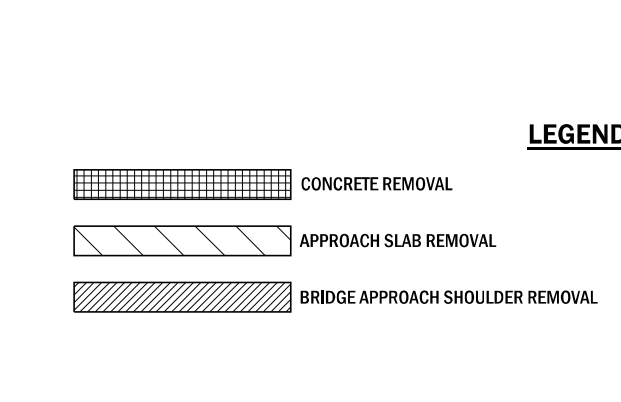
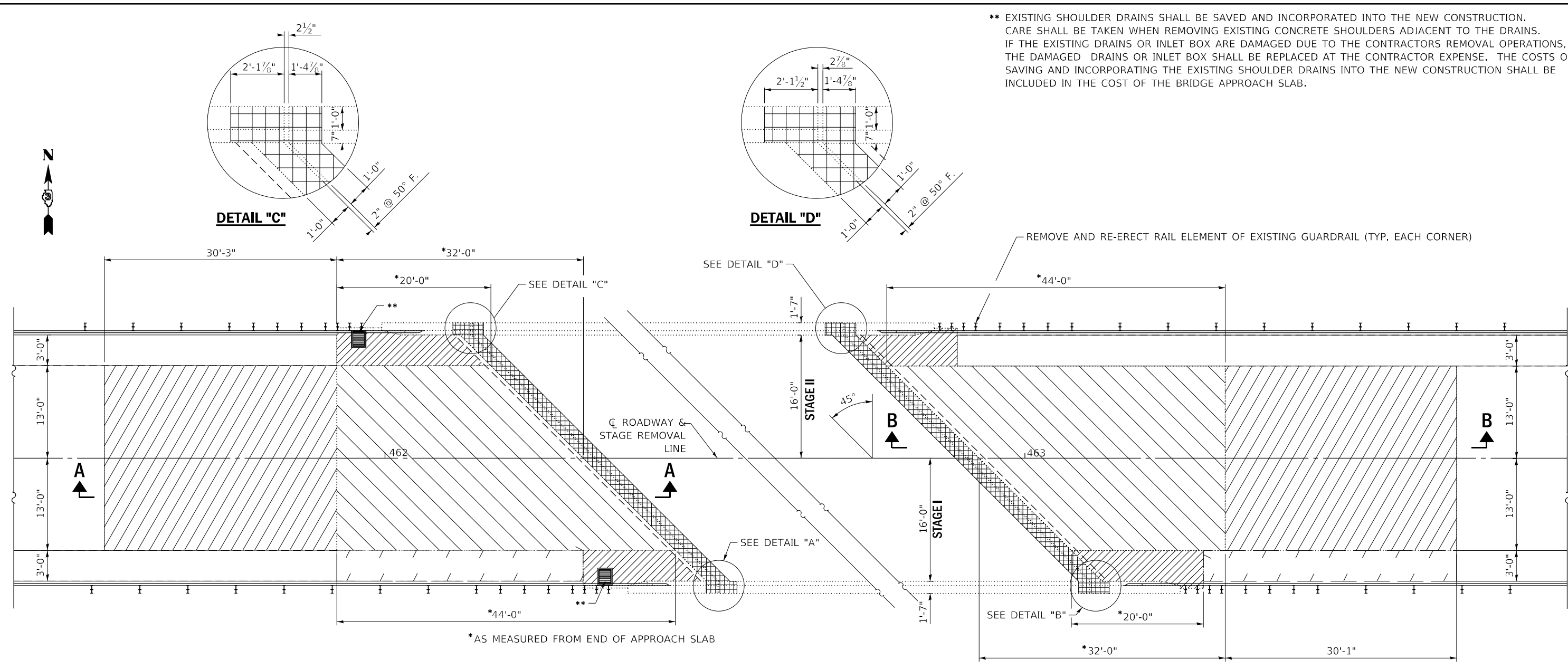
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
649	(108BR-2, 108-BR-3)BRR	LIVINGSTON	42	30
			CONTRACT NO. 66M75	
			ILLINOIS FED. AID PROJECT	

SCALE: SHEET 1 OF 13 SHEETS STA. TO STA.

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DATE - 7/5/2022	REVISIONS -	

** EXISTING SHOULDER DRAINS SHALL BE SAVED AND INCORPORATED INTO THE NEW CONSTRUCTION. CARE SHALL BE TAKEN WHEN REMOVING EXISTING CONCRETE SHOULDERS ADJACENT TO THE DRAINS. IF THE EXISTING DRAINS OR INLET BOX ARE DAMAGED DUE TO THE CONTRACTORS REMOVAL OPERATIONS, THE DAMAGED DRAINS OR INLET BOX SHALL BE REPLACED AT THE CONTRACTOR EXPENSE. THE COSTS OF SAVING AND INCORPORATING THE EXISTING SHOULDER DRAINS INTO THE NEW CONSTRUCTION SHALL BE INCLUDED IN THE COST OF THE BRIDGE APPROACH SLAB.



NOTE: EXISTING NAME PLATE SHALL BE CAREFULLY REMOVED AND INCORPORATED INTO THE NEW CONSTRUCTION AS DIRECTED BY THE ENGINEER. COST SHALL BE INCLUDED WITH CONSTRUCTION SUPERSTRUCTURE.

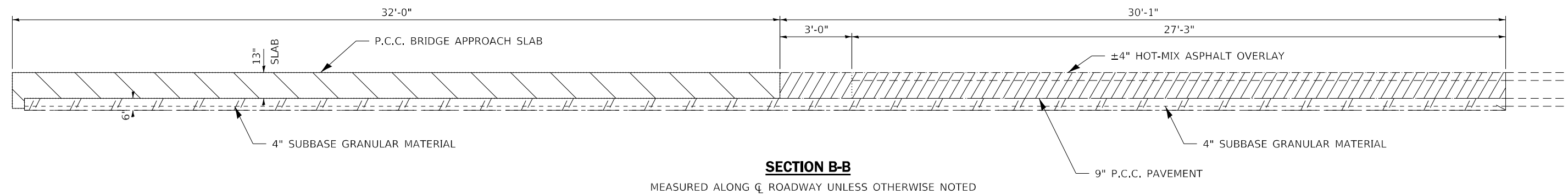
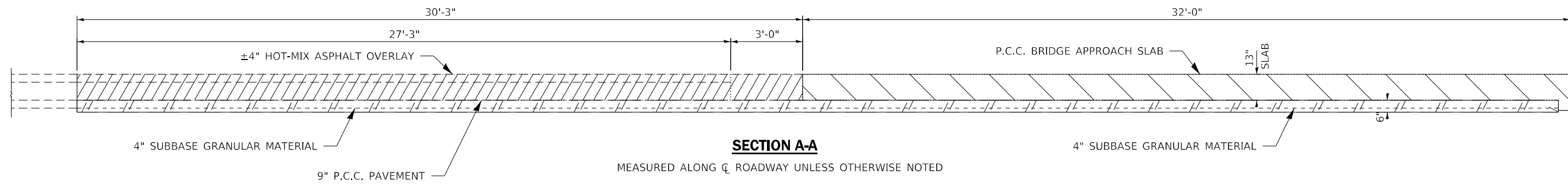
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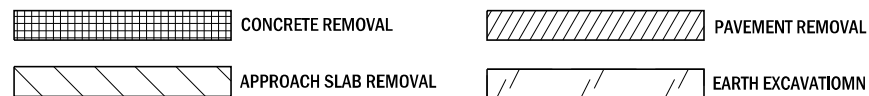
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

REMOVAL DETAILS FOR STRUCTURE NO. 053-0167		
SCALE:	SHEET 2 OF 13 SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
649	(108BR-2, 108-BR-3)BRR	LIVINGSTON	42	31
			CONTRACT NO. 66M75	
ILLINOIS FED. AID PROJECT				



LEGEND

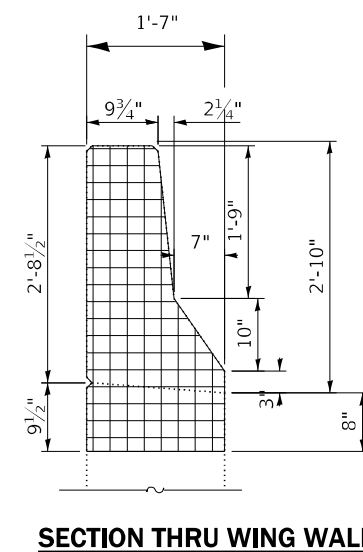
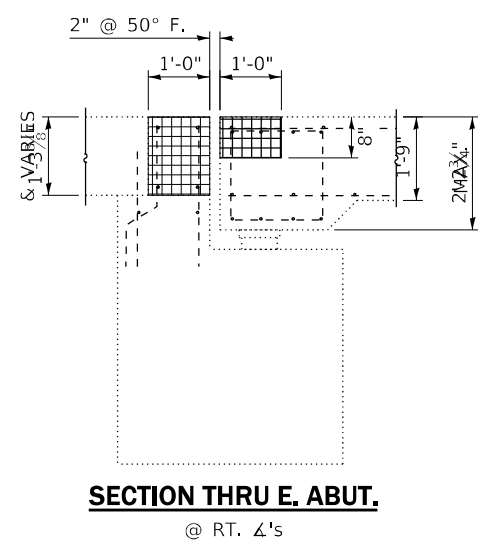
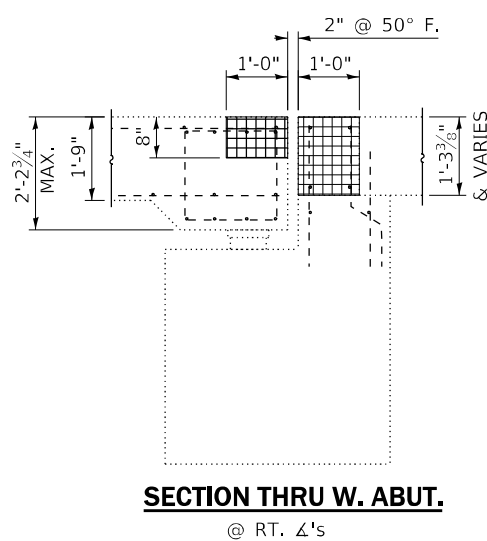


**BILL OF MATERIAL
WEST ABUTMENT**

ITEM	UNIT	TOTAL
CONCRETE REMOVAL	CU YD	4,4
BRIDGE APPROACH	SQ YD	14
APPROACH SLAB REMOVAL	SQ YD	92
PAVEMENT REMOVAL (HMA)	SQ YD	95

**BILL OF MATERIAL
EAST ABUTMENT**

ITEM	UNIT	TOTAL
CONCRETE REMOVAL	CU YD	4,4
BRIDGE APPROACH	SQ YD	12
APPROACH SLAB REMOVAL	SQ YD	92
PAVEMENT REMOVAL (HMA)	SQ YD	95



**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**REMOVAL DETAILS
FOR STRUCTURE NO. 053-0167**

USER NAME = ronald.woodshank	DESIGNED - RW	REVISED -
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	DATE - 7/5/2022	REVISED -

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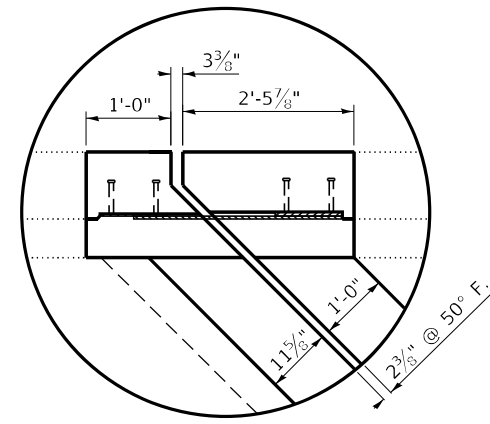
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
649	(108BR-2, 108-BR-3)BRR	LIVINGSTON	42	32
			CONTRACT NO. 66M75	
ILLINOIS FED. AID PROJECT				

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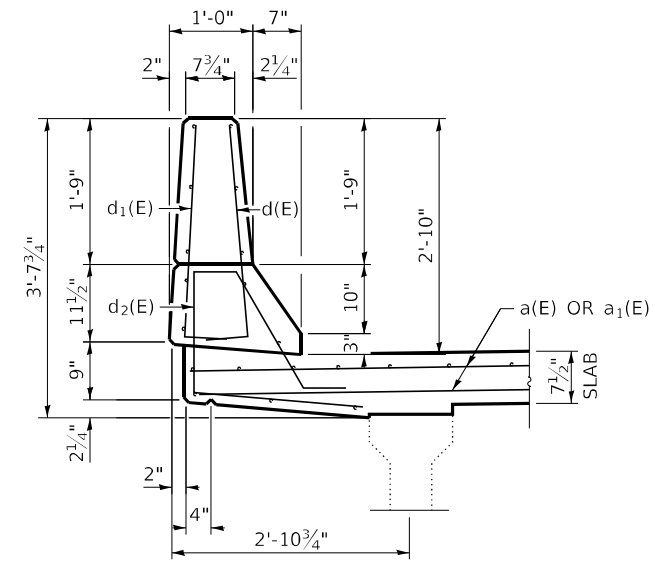


1 - #5 d(E) BAR FRONT FACE
 1 - #4 d(1) BAR CURB
 1 - #5 d₂(E) BAR BACK FACE

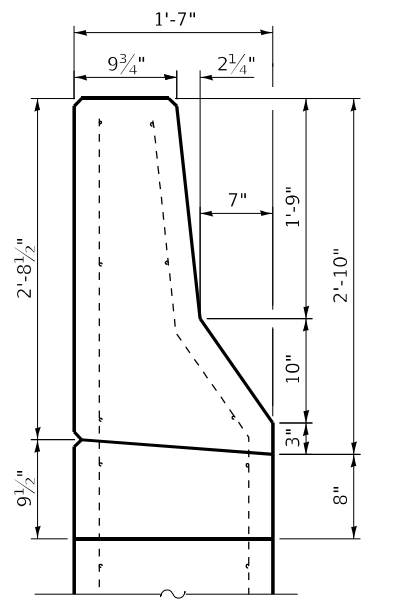
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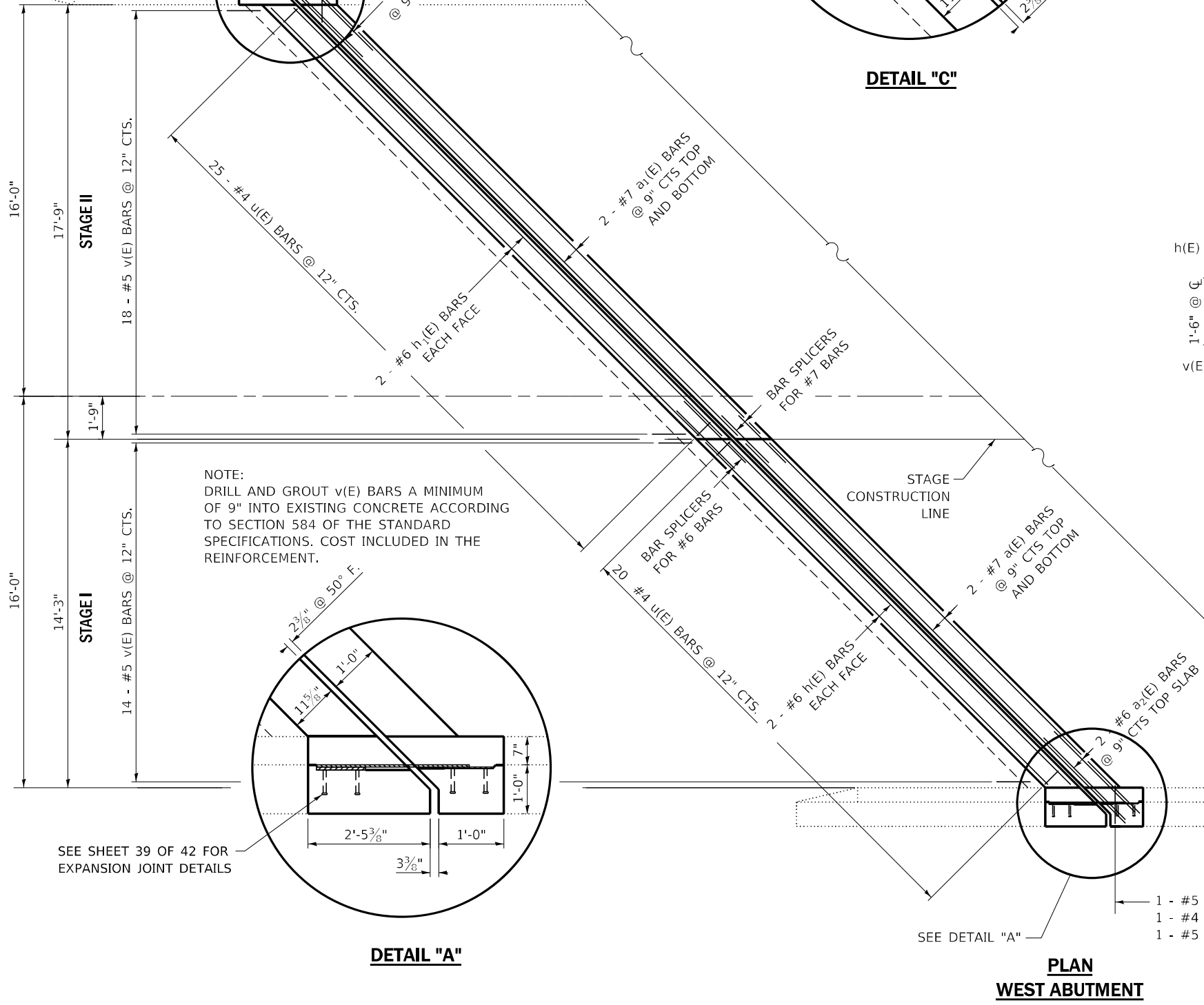
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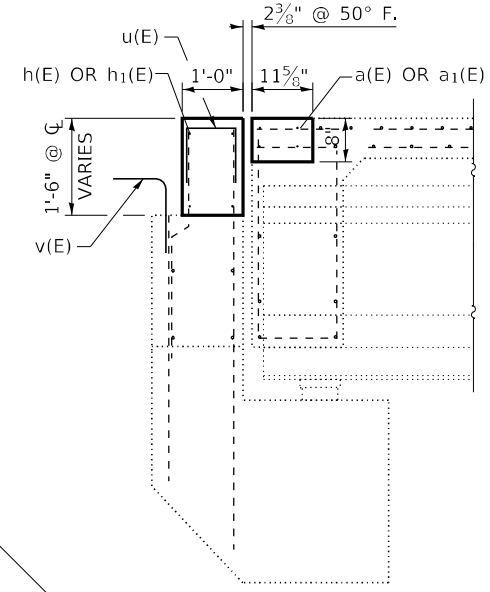
SECTION THRU WING WALL



SECTION THRU WING WALL

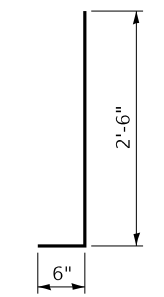


PLAN WEST ABUTMENT

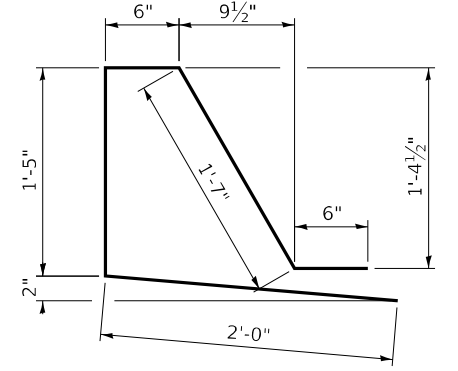


SECTION THRU W. ABUT.

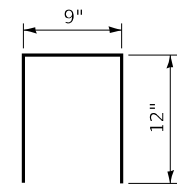
@ RT. Δ's



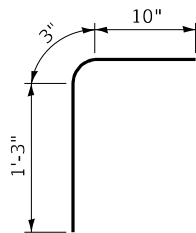
BAR d(E) & d2(E)



BAR d1(E)



BAR u(E)

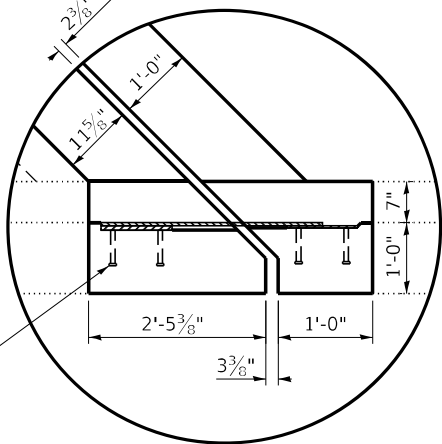


BAR v(E)

BILL OF MATERIAL WEST ABUTMENT

BAR	NO.	SIZE	LENGTH	SHAPE
a(E)	4	#7	22'-3"	———
a1(E)	4	#7	26'-5"	———
a2(E)	4	#6	4'-0"	———
d(E)	2	#5	3'-0"	┌┐
d1(E)	2	#5	6'-0"	┌┐
d2(E)	2	#4	3'-0"	┌┐
h(E)	4	#6	19'-10"	———
h1(E)	4	#6	24'-9"	———
u(E)	45	#4	2'-9"	———
v(E)	32	#5	2'-4"	———
CONCRETE SUPERSTRUCTURE			CU. YD.	4.9
REINFORCEMENT BARS, EPOXY COATED			POUND	910
BRIDGE DECK GROOVING			SQ YD	10
PROTECTIVE COAT			SQ YD	11

NOTE:
 DRILL AND GROUT v(E) BARS A MINIMUM OF 9" INTO EXISTING CONCRETE ACCORDING TO SECTION 584 OF THE STANDARD SPECIFICATIONS. COST INCLUDED IN THE REINFORCEMENT.



DETAIL "A"

SEE SHEET 39 OF 42 FOR EXPANSION JOINT DETAILS

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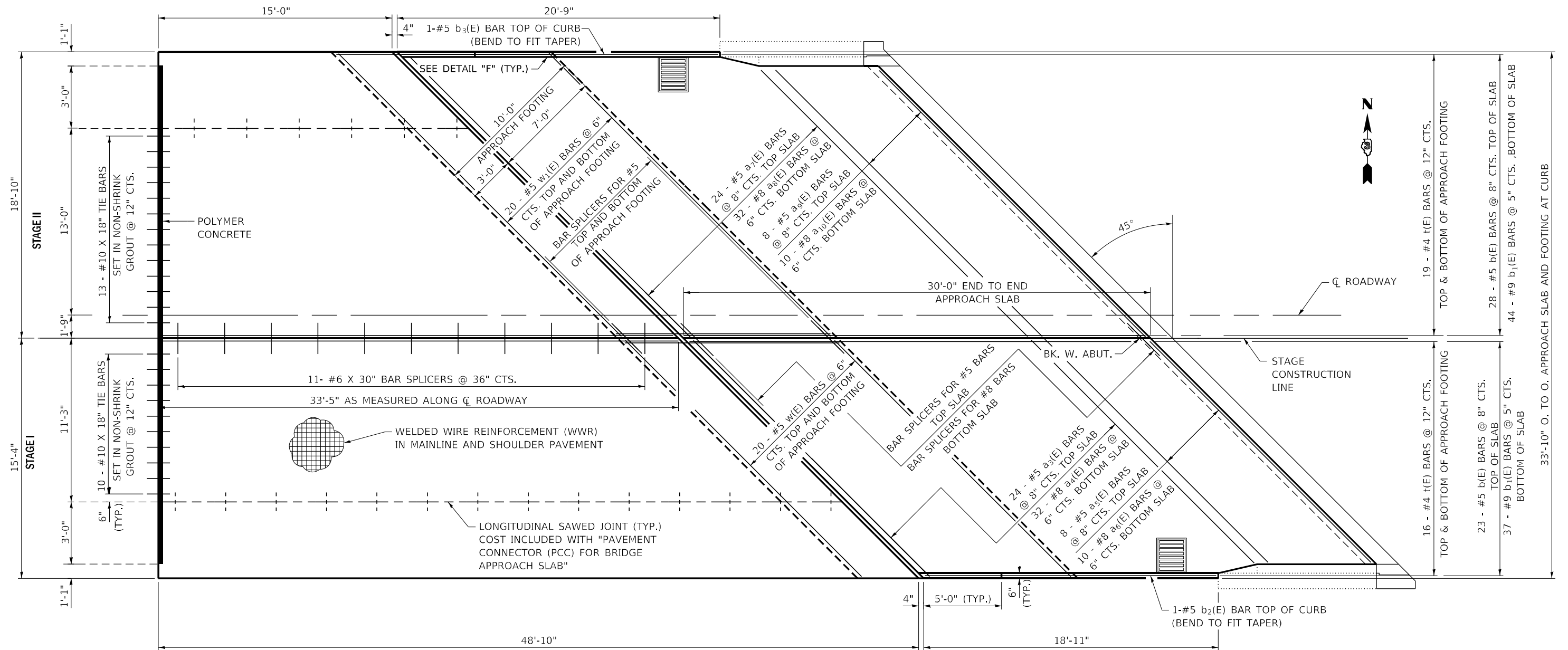
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PLOT DATE = 10/19/2022	CHECKED - YP	REVISD -
	DATE - 7/5/2022	REVISD -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**EXPANSION JOINT RECONSTRUCTION DETAILS
 FOR STRUCTURE NO. 053-0167**

SCALE: SHEET 4 OF 13 SHEETS STA. TO STA.

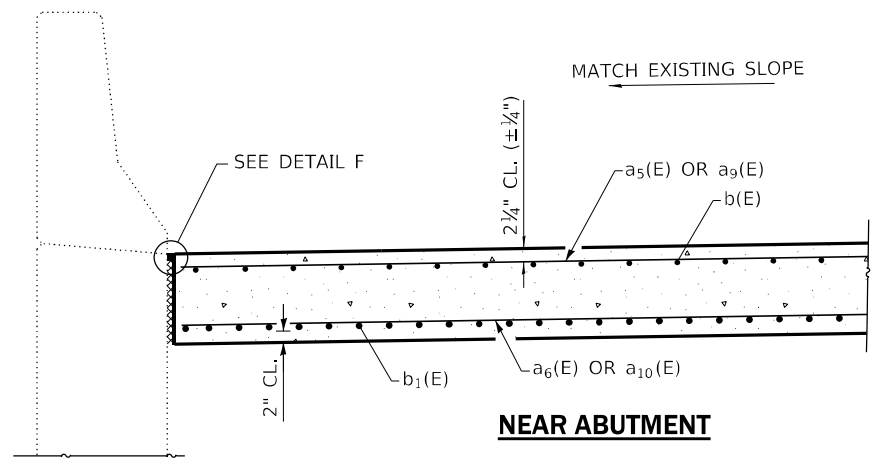
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
649	(108BR-2, 108-BR-3)BRR	LIVINGSTON	42	33
			CONTRACT NO. 66M75	
ILLINOIS FED. AID PROJECT				



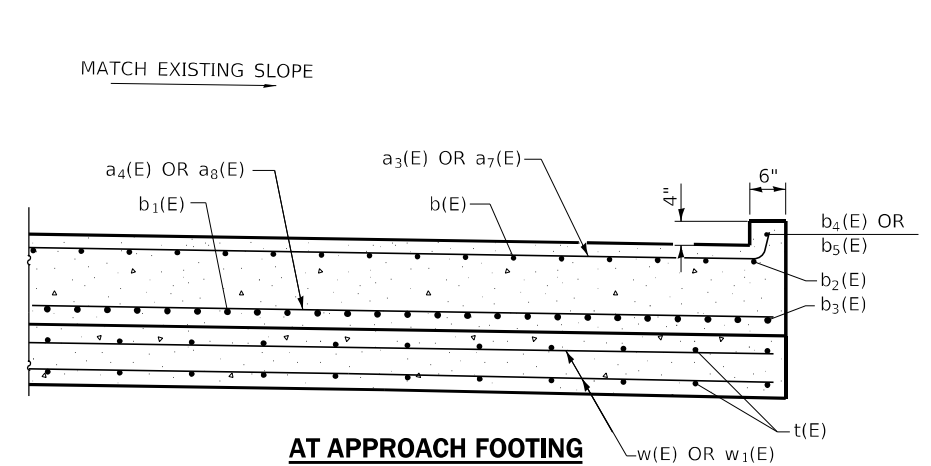
PAVEMENT CONNECTOR (PCC) FOR APPROACH SLAB

CONCRETE SUPERSTRUCTURE (APPROACH SLAB)

PLAN



NEAR ABUTMENT



AT APPROACH FOOTING

CROSS SECTION

NOTES:

1. WHEN NECESSARY, REINFORCEMENT BARS SHALL BE CUT TO PROVIDE A MINIMUM OF 1 1/2" CLEARANCE AROUND EXISTING SHOULDER DRAINS AND PARAPET CURB TRANSITIONS.
2. THE JOINT OPENING SHALL BE ADJUSTED FOR TEMPERATURE PER ARTICLE 520.04 OF THE STANDARD SPECIFICATIONS.
3. PARAPET CONCRETE SHALL BE PAID FOR AS CONCRETE SUPERSTRUCTURE.
4. APPROACH SLAB SHALL BE PAID FOR AS CONCRETE SUPERSTRUCTURE (APPROACH SLAB).
5. APPROACH FOOTING CONCRETE SHALL BE PAID FOR AS CONCRETE STRUCTURES.
6. THE APPROACH FOOTING MAXIMUM APPLIED SERVICE BEARING PRESSURE (QMAX) = 2.0 KSF. COST OF EXCAVATION FOR APPROACH SLAB/FOOTING INCLUDED WITH CONCRETE STRUCTURES.

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USER NAME = ronald.woodshank	DESIGNED - RW	REVISED -
	DRAWN - RW	REVISED -
PLOT SCALE = 100.00' / in.	CHECKED - YP	REVISED -
PLOT DATE = 10/19/2022	DATE - 7/5/2022	REVISED -

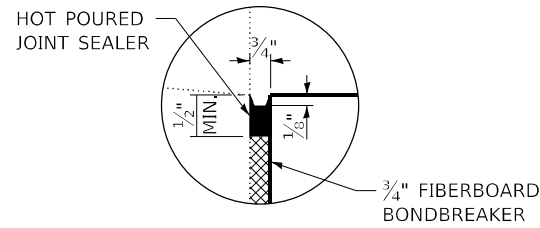
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**BRIDGE APPROACH SLAB/PAVEMENT CONNECTOR (PCC)
AT WEST ABUTMENT FOR STRUCTURE NO. 053-0167**

SCALE: SHEET 5 OF 13 SHEETS STA. TO STA.

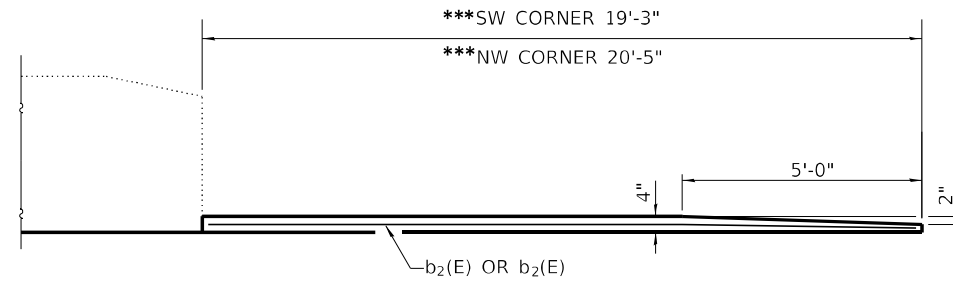
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
649	(108BR-2, 108-BR-3)BRR	LIVINGSTON	42	34
ILLINOIS FED. AID PROJECT			CONTRACT NO. 66M75	

***AS MEASURED ALONG INSIDE FACE OF CURB

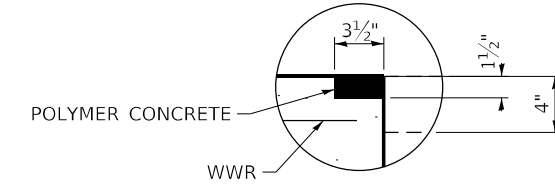


DETAIL F

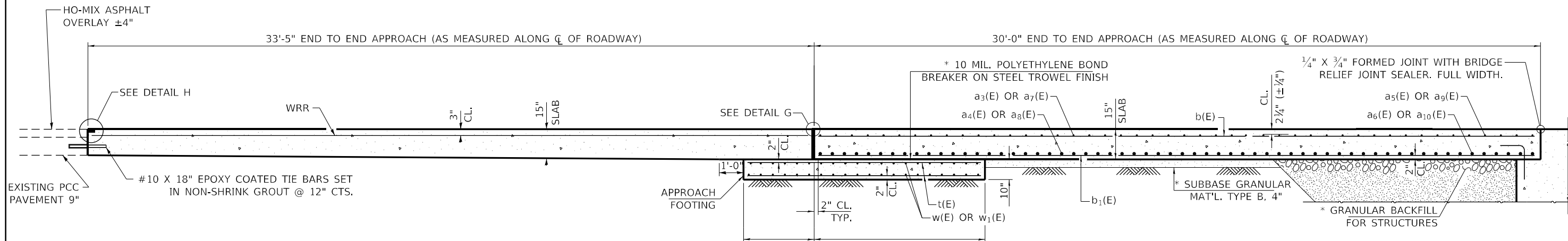
COSTS INCLUDE WITH CONCRETE SUPERSTRUCTURE (APPROACH SLAB)



INSIDE ELEVATION OF PARAPET AND CURB



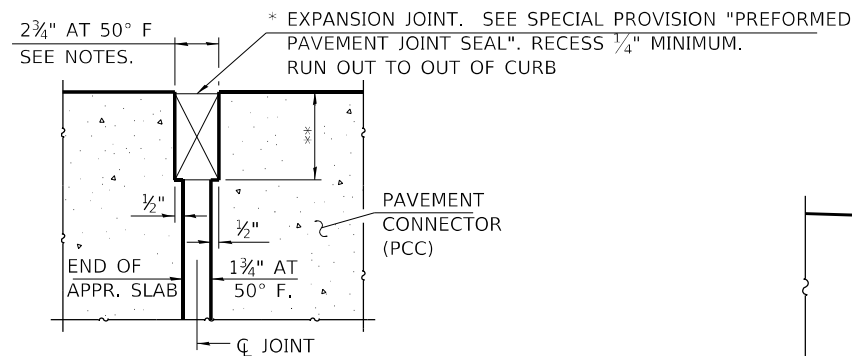
DETAIL H



LONGITUDINAL SECTION

NOTES:

- WHENEVER NECESSARY, REINFORCEMENT BARS SHALL BE CUT TO FIT EXISTING SHOULDER DRAINS AND PARAPET TRANSITIONS.

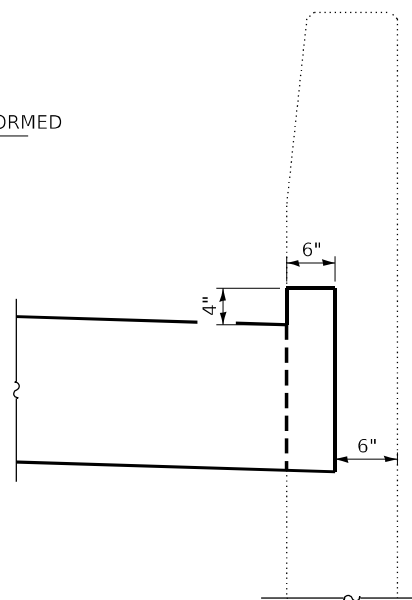


DETAIL G

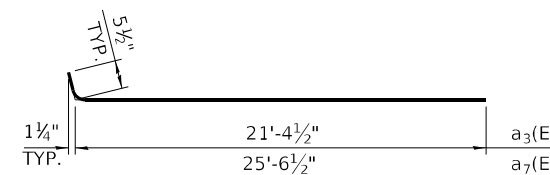
(AT RT. ANGLES)

* COST INCLUDED WITH CONCRETE SUPERSTRUCTURE (APPROACH SLAB).

** PER MANUFACTURER RECOMMENDATIONS



SECTION AT CURB



BAR a3(E), a 7(E)

BILL OF MATERIAL WEST APPROACH

BAR	NO.	SIZE	LENGTH	SHAPE
a3(E)	24	#5	21'-10"	—
a4(E)	32	#8	21'-5"	—
a5(E)	8	#5	20'-2"	—
a6(E)	10	#8	20'-2"	—
a7(E)	24	#5	26'-0"	—
a8(E)	32	#8	25'-8"	—
a9(E)	8	#5	24'-4"	—
a10(E)	10	#8	24'-4"	—
b(E)	51	#5	29'-8"	—
b1(E)	81	#9	29'-8"	—
b2(E)	1	#5	18'-9"	—
b3(E)	1	#9	20'-3"	—
t(E)	68	#4	13'-9"	—
w(E)	40	#5	21'-5"	—
w1(E)	40	#5	25'-8"	—
CONCRETE SUPERSTRUCTURE (APPROACH SLAB)			CU. YD.	46.5
CONCRETE STRUCTURES			CU. YD.	15
PAVEMENT CONNECTOR (PCC) FOR BRIDGE APPROACH SLAB			SQ. YD.	122
REINFORCEMENT BARS, EPOXY COATED			POUND	19230
WELDED WIRE REINFORCEMENT			SQ. YD.	122
BRIDGE DECK GROOVING			SQ. YD.	211
PROTECTIVE COAT			SQ. YD.	234
POLYMER CONCRETE			CU. FT.	1.2

MODEL: Default FILE: 66m75.tbl PROJECT: 66m75.tbl SHEET: 66m75-13.DWG DATE: 10/19/2022

USER NAME = ronald.woodshank	DESIGNED - RW	REVISED -
DRAWN - RW	REVISED -	
PLOT SCALE = 100.00' / in.	CHECKED - YP	REVISED -
PLOT DATE = 10/19/2022	DATE - 7/5/2022	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**APPROACH SLAB/PAVEMENT CONNECTOR (PCC) DETAILS
AT WEST ABUTMENT FOR STRUCTURE NO. 053-0167**

SCALE: SHEET 6 OF 13 SHEETS STA. TO STA.

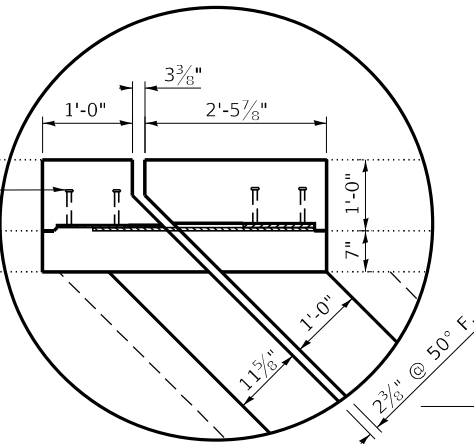
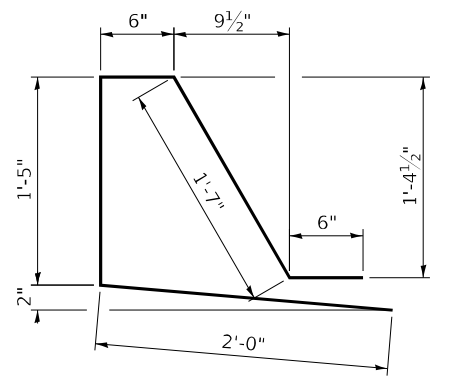
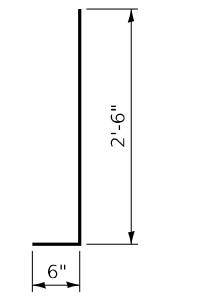
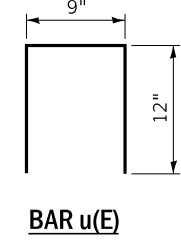
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
649	(108BR-2, 108-BR-3)BRR	LIVINGSTON	42	35
			CONTRACT NO. 66M75	
ILLINOIS FED. AID PROJECT				



1 - #5 d₃(E) BAR FRONT FACE
 1 - #4 d₅(E) BAR CURB
 1 - #5 d₄(E) BAR BACK FACE

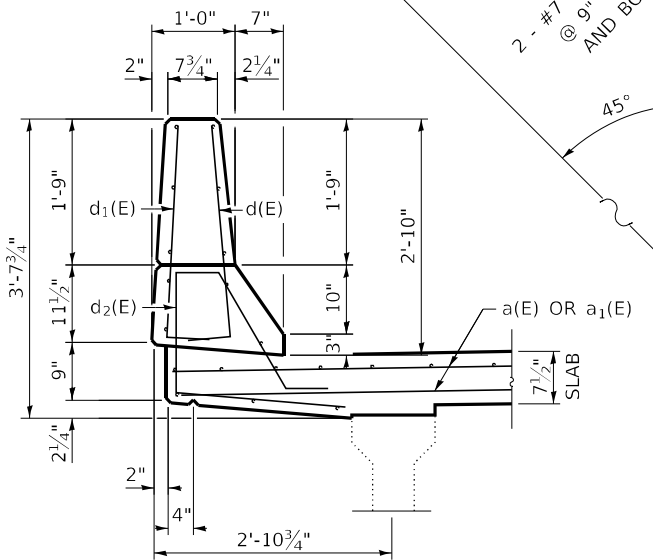
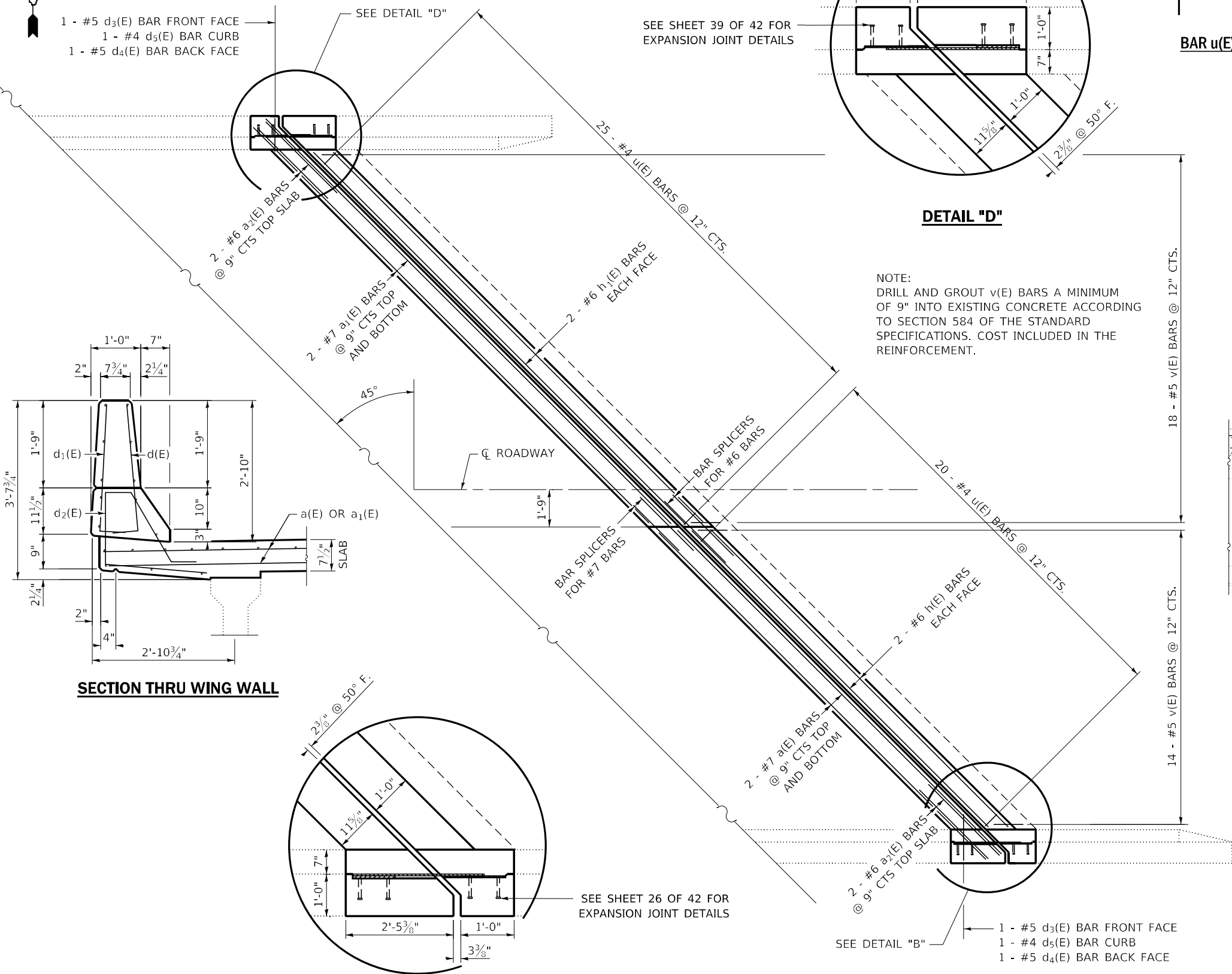
SEE DETAIL "D"

SEE SHEET 39 OF 42 FOR EXPANSION JOINT DETAILS

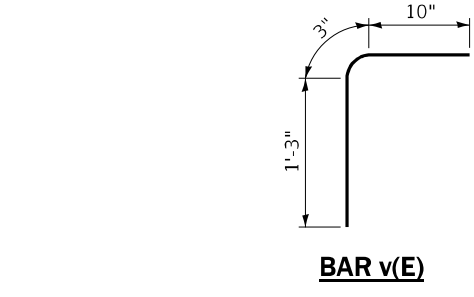


DETAIL "D"

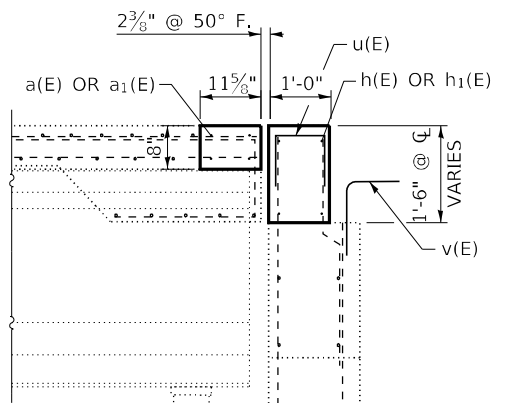
NOTE:
 DRILL AND GROUT v(E) BARS A MINIMUM OF 9" INTO EXISTING CONCRETE ACCORDING TO SECTION 584 OF THE STANDARD SPECIFICATIONS. COST INCLUDED IN THE REINFORCEMENT.



SECTION THRU WING WALL

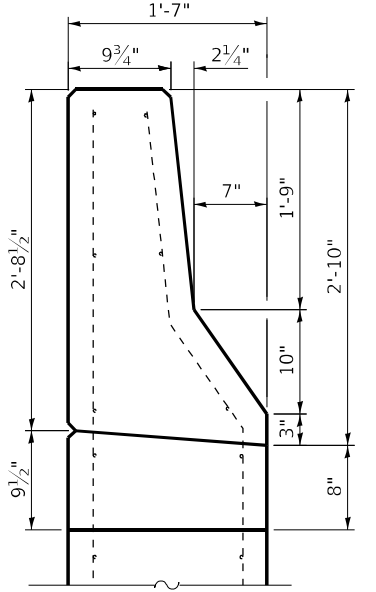


BAR v(E)

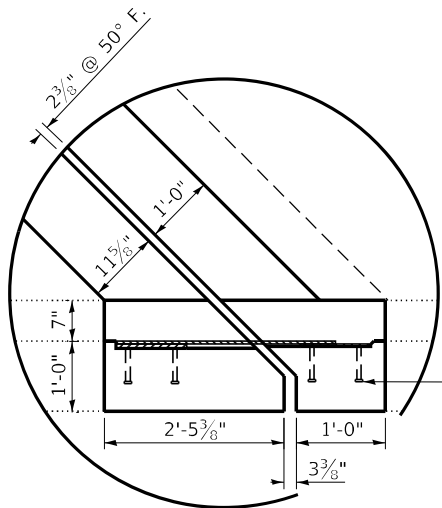


SECTION THRU E. ABUT.

@ RT. 4's



SECTION THRU WING WALL



DETAIL "B"

SEE SHEET 26 OF 42 FOR EXPANSION JOINT DETAILS

SEE DETAIL "B"
 1 - #5 d₃(E) BAR FRONT FACE
 1 - #4 d₅(E) BAR CURB
 1 - #5 d₄(E) BAR BACK FACE

PLAN EAST ABUTMENT

BILL OF MATERIAL EAST ABUTMENT

BAR	NO.	SIZE	LENGTH	SHAPE
a(E)	4	#7	22'-3"	—
a1(E)	4	#7	26'-5"	—
a2(E)	4	#6	4'-0"	—
d(E)	2	#5	3'-0"	┘
d1(E)	2	#5	6'-0"	┘
d2(E)	2	#4	3'-0"	┘
h(E)	4	#6	19'-10"	—
h1(E)	4	#6	24'-9"	—
u(E)	45	#4	2'-9"	—
v(E)	32	#5	2'-4"	—
CONCRETE SUPERSTRUCTURE			CU. YD.	4.8
REINFORCEMENT BARS, EPOXY COATED			POUND	910
BRIDGE DECK GROOVING			SQ YD	10
PROTECTIVE COAT			SQ YD	11

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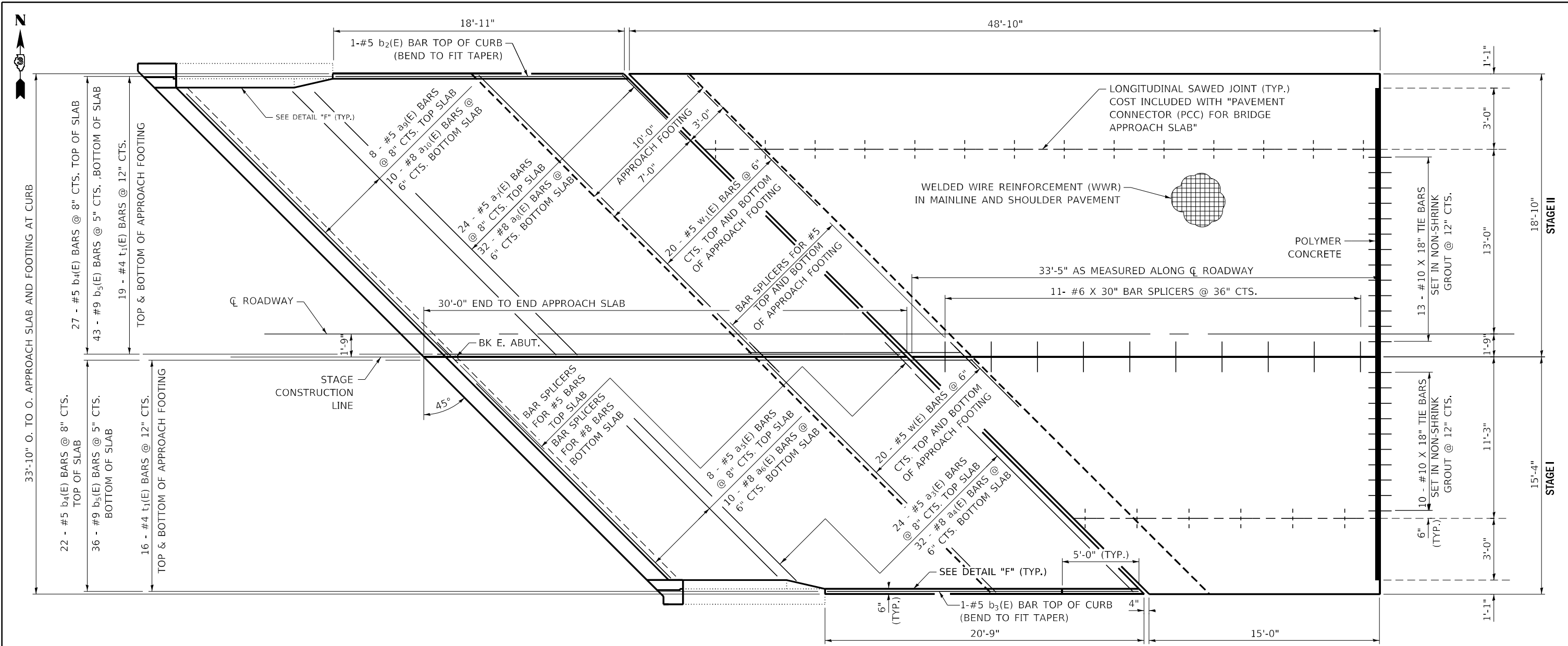
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DRAWN - RW	REVISED -	
PLOT SCALE = 100.00' / in.	CHECKED - YP	REVISED -
PLOT DATE = 10/19/2022	DATE - 7/5/2022	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**EXPANSION JOINT RECONSTRUCTION DETAILS
 AT EAST ABUTMENT FOR STRUCTURE NO. 053-0167**

SCALE: SHEET 7 OF 13 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
649	(108BR-2, 108-BR-3)BR	LIVINGSTON	42	36
			CONTRACT NO. 66M75	
ILLINOIS FED. AID PROJECT				



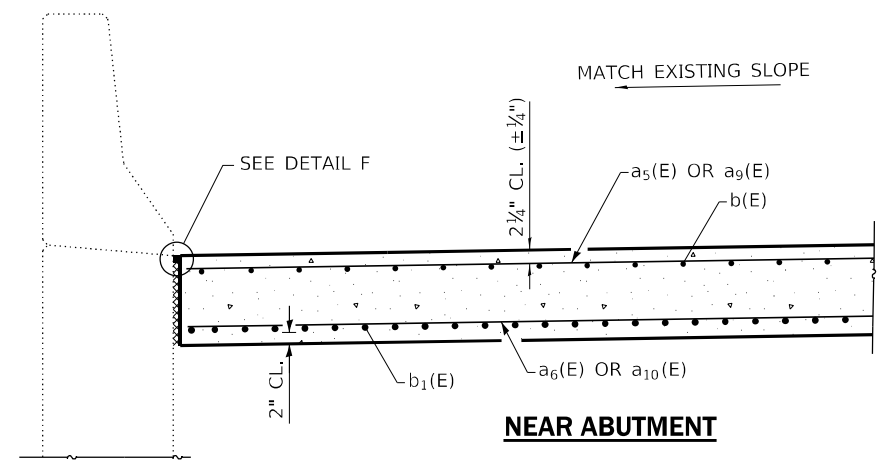
CONCRETE SUPERSTRUCTURE (APPROACH SLAB)

PAVEMENT CONNECTOR (PCC) FOR APPROACH SLAB

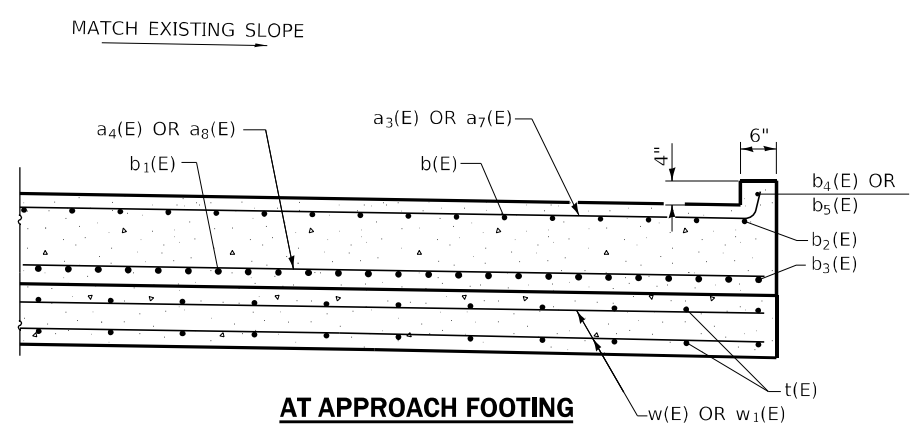
PLAN

NOTES:

1. WHEN NECESSARY, REINFORCEMENT BARS SHALL BE CUT TO PROVIDE A MINIMUM OF 1 1/2" CLEARANCE AROUND EXISTING SHOULDER DRAINS AND PARAPET CURB TRANSITIONS.
2. THE JOINT OPENING SHALL BE ADJUSTED FOR TEMPERATURE PER ARTICLE 520.04 OF THE STANDARD SPECIFICATIONS.
3. PARAPET CONCRETE SHALL BE PAID FOR AS CONCRETE SUPERSTRUCTURE.
4. APPROACH SLAB SHALL BE PAID FOR AS CONCRETE SUPERSTRUCTURE (APPROACH SLAB).
5. APPROACH FOOTING CONCRETE SHALL BE PAID FOR AS CONCRETE STRUCTURES.
6. THE APPROACH FOOTING MAXIMUM APPLIED SERVICE BEARING PRESSURE (QMAX) = 2.0 KSF. COST OF EXCAVATION FOR APPROACH SLAB/FOOTING INCLUDED WITH CONCRETE STRUCTURES.



NEAR ABUTMENT



AT APPROACH FOOTING

CROSS SECTION

USER NAME = ronald.woodshank	DESIGNED - RW	REVISED -
	DRAWN - RW	REVISED -
PLOT SCALE = 100.00' / in.	CHECKED - YP	REVISED -
PLOT DATE = 10/19/2022	DATE - 7/5/2022	REVISED -

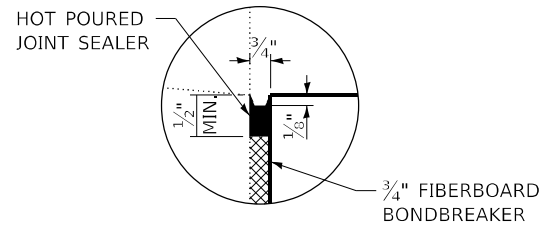
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**BRIDGE APPROACH SLAB/PAVEMENT CONNECTOR (PCC)
AT EAST ABUTMENT FOR STRUCTURE NO. 053-0167**

SCALE: SHEET 8 OF 13 SHEETS STA. TO STA.

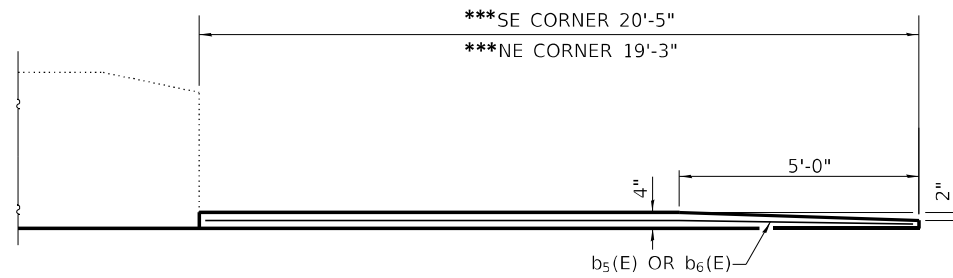
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
649	(108BR-2, 108-BR-3)BRR	LIVINGSTON	42	37
ILLINOIS FED. AID PROJECT			CONTRACT NO. 66M75	

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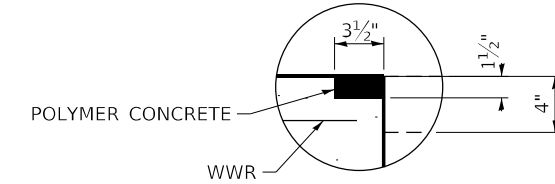


DETAIL F

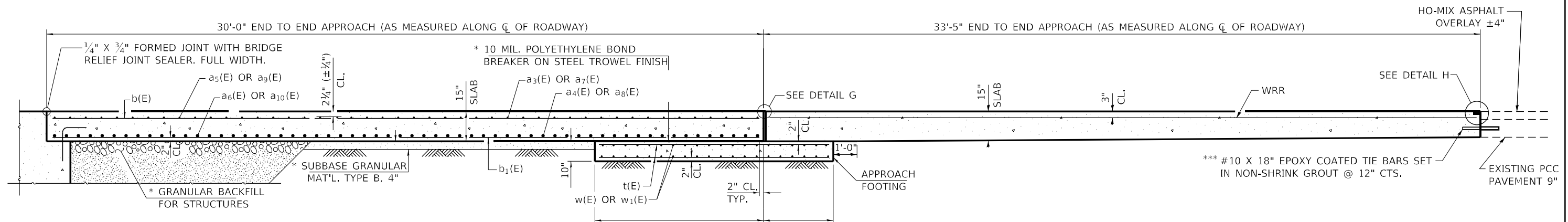
COSTS INCLUDE WITH CONCRETE SUPERSTRUCTURE (APPROACH SLAB)



INSIDE ELEVATION OF PARAPET AND CURB



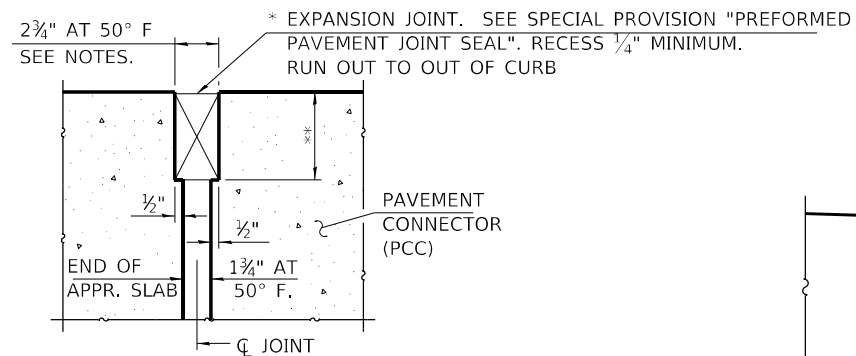
DETAIL H



LONGITUDINAL SECTION

**BILL OF MATERIAL
EAST APPROACH**

BAR	NO.	SIZE	LENGTH	SHAPE
a3(E)	24	#5	21'-10"	—
a4(E)	32	#8	21'-5"	—
a5(E)	8	#5	20'-2"	—
a6(E)	10	#8	20'-2"	—
a7(E)	24	#5	26'-0"	—
a8(E)	32	#8	25'-8"	—
a9(E)	8	#5	24'-4"	—
a10(E)	10	#8	24'-4"	—
b(E)	51	#5	29'-8"	—
b1(E)	81	#9	29'-8"	—
b2(E)	1	#5	18'-9"	—
b3(E)	1	#9	20'-3"	—
t(E)	68	#4	13'-9"	—
w(E)	40	#5	21'-5"	—
w1(E)	40	#5	25'-8"	—
CONCRETE SUPERSTRUCTURE (APPROACH SLAB)			CU. YD.	46.5
CONCRETE STRUCTURES			CU. YD.	15
PAVEMENT CONNECTOR (PCC) FOR BRIDGE APPROACH SLAB			SQ. YD.	122
REINFORCEMENT BARS, EPOXY COATED			POUND	19230
WELDED WIRE REINFORCEMENT			SQ. YD.	122
BRIDGE DECK GROOVING			SQ. YD.	213
PROTECTIVE COAT			SQ. YD.	234
POLYMER CONCRETE			CU. FT.	1.2

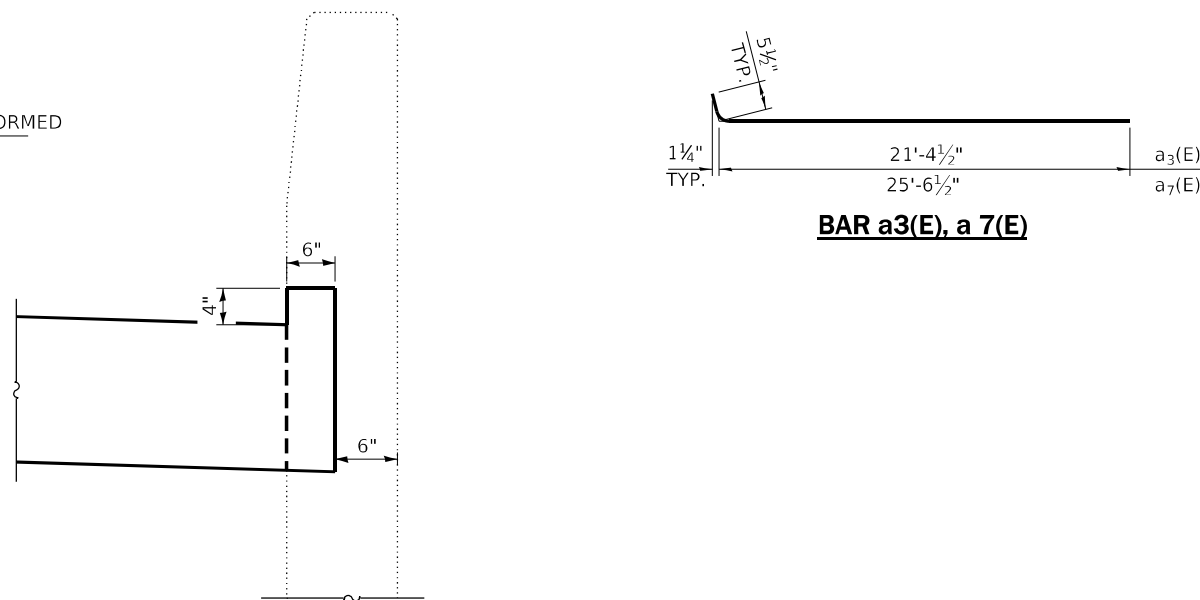


DETAIL G

(AT RT. Z'S)

* COST INCLUDED WITH CONCRETE SUPERSTRUCTURE (APPROACH SLAB).

** PER MANUFACTURER RECOMMENDATIONS



SECTION AT CURB

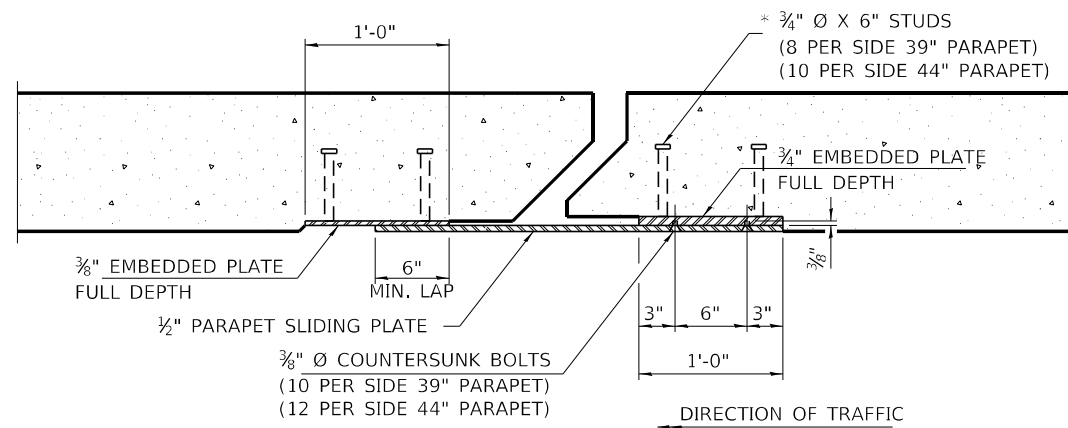
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BRIDGE APPROACH SLAB/PAVEMENT CONNECTOR (PCC)
AT EAST ABUTMENT FOR STRUCTURE NO. 053-0167

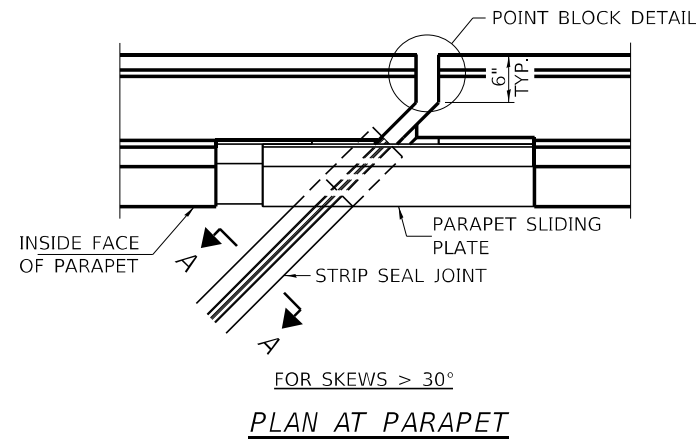
SCALE: SHEET 9 OF 13 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
649	(108BR-2, 108-BR-3)BRR	LIVINGSTON	42	38
			CONTRACT NO. 66M75	
ILLINOIS FED. AID PROJECT				

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SECTION B-B



PLAN AT PARAPET

NOTES:

THE STRIP SEAL SHALL BE MADE CONTINUOUS AND SHALL HAVE A MINIMUM THICKNESS OF 1/4". THE CONFIGURATION OF THE STRIP SEAL SHALL MATCH THE CONFIGURATION OF THE LOCKING EDGE RAILS. OPEN OR "WEBBED" STRIP SEAL GLAND CONFIGURATIONS ARE NOT PERMITTED. THE GLAND SHALL BE SIZED FOR A MAXIMUM RATED MOVEMENT OF 4 INCHES.

THE LOCKING EDGE RAILS DEPICTED ARE CONFIGURED FOR TYPICAL APPLICATIONS AND ARE CONCEPTUAL ONLY. THE ACTUAL CONFIGURATION OF THE LOCKING EDGE RAILS AND MATCHING STRIP SEAL MAY VARY FROM MANUFACTURER TO MANUFACTURER PROVIDED THEY FIT THE APPLICATION AND MEET THE MINIMUM ANCHORAGE SHOWN. FLANGED EDGE RAILS, HOWEVER, WILL NOT BE ALLOWED. LOCKING EDGE RAILS MAY EXCEED THE 4 1/2" MAXIMUM DEPTH PROVIDED THE ANCHORAGE SYSTEM IS REVISED ACCORDING TO THE MANUFACTURER'S RECOMMENDATION.

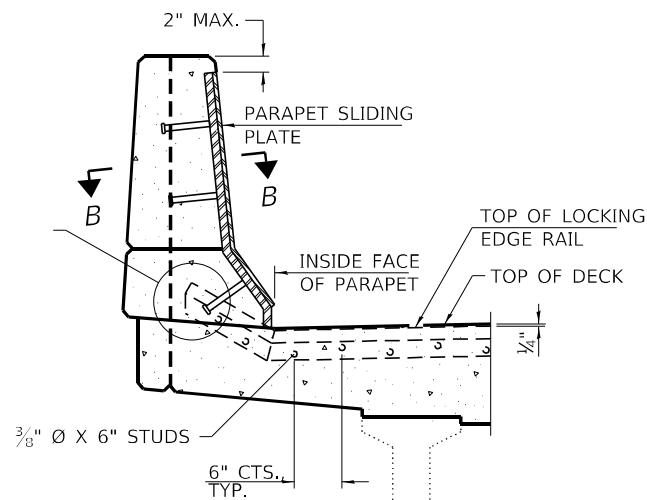
THE MANUFACTURER'S RECOMMENDED INSTALLATION METHODS SHALL BE FOLLOWED.

ALL STEEL COMPONENTS SHALL BE GALVANIZED AFTER FABRICATION ACCORDING TO ARTICLE 520.03 OF THE STANDARD SPECIFICATIONS.

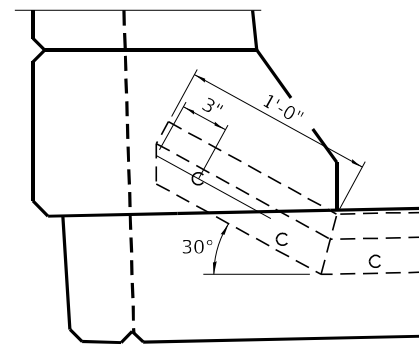
THE MAXIMUM SPACE BETWEEN LOCKING EDGE RAIL SEGMENTS SHALL BE 1/16" AND SEALED WITH A SUITABLE SEALANT; HOWEVER, ANY RAIL JOINT WITHIN 10' MEASURED PERPENDICULAR TO THE FACE OF THE CURB OR PARAPET SHALL BE WELDED AS SHOWN IN THE LOCKING EDGE RAIL SPLICE DETAIL.

COST OF PARAPET SLIDING PLATES, EMBEDDED PLATES, AND ANCHORAGE STUDS INCLUDED WITH PREFORMED JOINT STRIP SEAL. 34" F-SHAPE BARRIER SHOWN, 42" F-SHAPE SIMILAR AS NOTED.

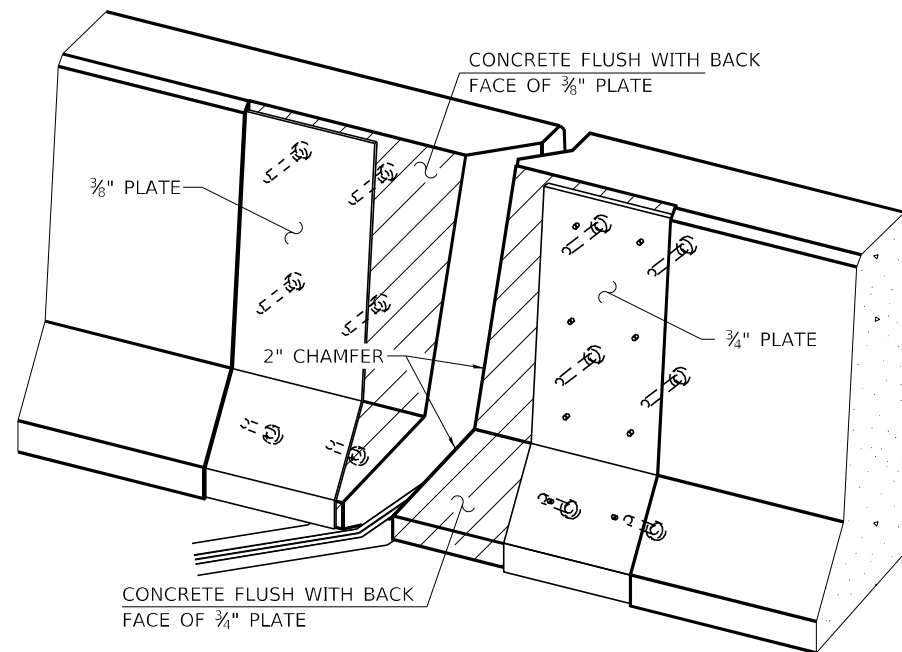
THE CONCRETE OPENING BELOW THE STRIP SEAL WILL VARY BASED ON THE LOCKING EDGE RAIL CHOSEN BY THE CONTRACTOR. DECK AND PARAPET LENGTHS SHOWN ELSEWHERE IN THE PLANS ARE DIMENSIONED TO THE CONCRETE OPENING, NOT THE JOINT OPENING, AND ARE BASED ON THE ROLLED LOCKING EDGE RAIL. IF THE CONTRACTOR ELECTS TO USE A DIFFERENT LOCKING EDGE RAIL, DIMENSIONAL ADJUSTMENTS MAY BE REQUIRED. ONE EXCEPTION TO THIS WOULD BE THE STRIP SEAL JOINT AT THE END OF THE PRECAST BRIDGE APPROACH SLAB. FOR THESE CASES THE PAVEMENT CONNECTOR LENGTH SHALL BE ADJUSTED, NOT THE LENGTH OF THE BRIDGE APPROACH SLAB.



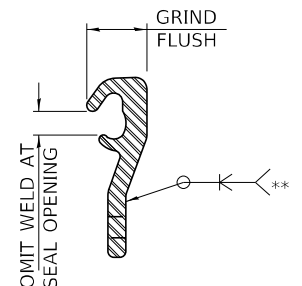
ELEVATION AT PARAPET
(SKEWS > 30° SHOWN.)



DETAIL A

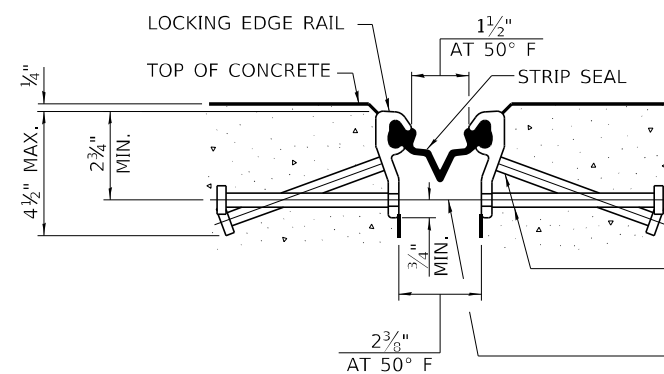


TRIMETRIC VIEW
(SHOWING EMBEDDED PLATES ONLY)



LOCKING EDGE RAIL SPLICE

THE INSIDE OF THE LOCKING EDGE RAIL GROOVE SHALL BE FREE OF WELD RESIDUE. ROLLED RAIL SHOWN, WELDED RAIL SIMILAR.



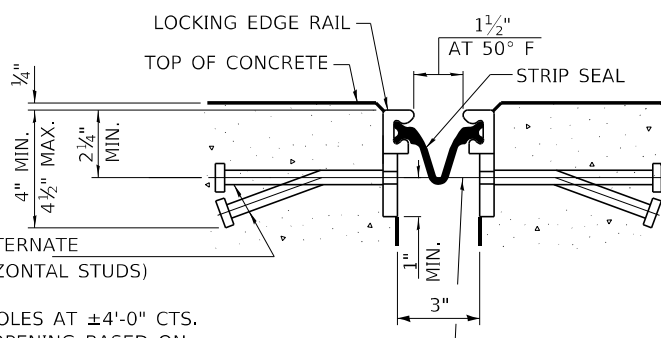
SHOWING ROLLED RAIL JOINT

* 5/8" Ø X 6" STUDS @ 6" CTS. (ALTERNATE ANGLED/BENT STUDS WITH HORIZONTAL STUDS)

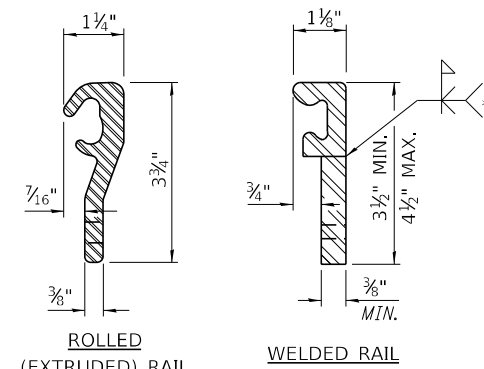
3/8" Ø THREADED RODS IN 7/16" Ø HOLES AT ±4'-0" CTS. FOR HOLDING THE PROPER JOINT OPENING BASED ON THE TEMPERATURE DURING THE DECK POUR. PLACE TO MISS STUDS. ALL RODS SHALL BE BURNED, OR SAWED OFF FLUSH WITH THE PLATES AFTER CONCRETE IS SET.

SECTION A-A

* GRANULAR OR SOLID FLUX FILLED HEADED STUDS CONFORMING TO ARTICLE 1006.32 OF THE STD. SPECS., AUTOMATICALLY END WELDED.



SHOWING WELDED RAIL JOINT



LOCKING EDGE RAILS

** BACK GOUGE NOT REQUIRED IF COMPLETE JOINT PENETRATION IS VERIFIED BY MOCK-UP.

BILL OF MATERIAL
STRUCTURE NO. 053-0167

ITEM	UNIT	TOTAL
W. ABUT. PREFORMED JOINT STRIP SEAL	FOOT	48
E. ABUT. PREFORMED JOINT STRIP SEAL	FOOT	48

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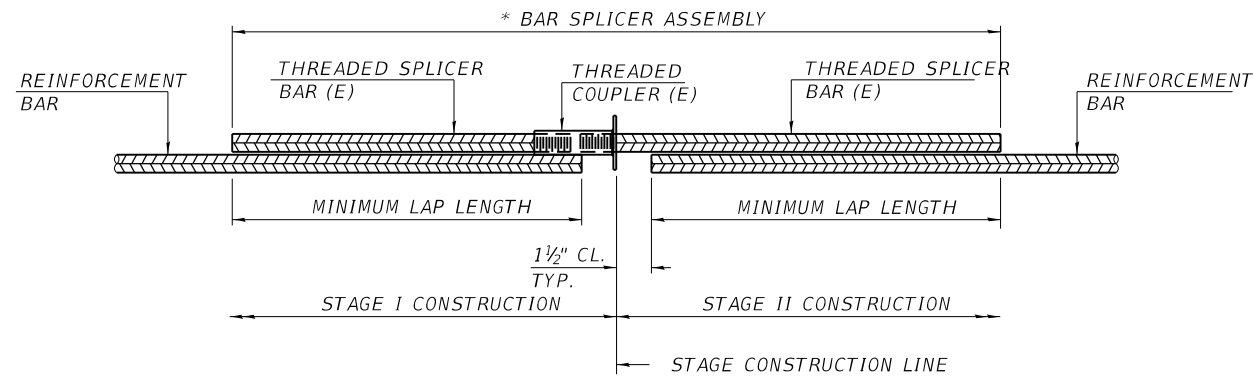
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	DATE - 7/5/2022	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXPANSION JOINT RECONSTRUCTION DETAILS
FOR STRUCTURE NO. 053-0167

SCALE: SHEET 10 OF 13 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
649	(108BR-2, 108-BR-3)BRR	LIVINGSTON	42	39
			CONTRACT NO. 66M75	
ILLINOIS FED. AID PROJECT				



STANDARD BAR SPLICER ASSEMBLY PLAN
(ALL COMPONENTS SHALL BE PROVIDED FROM ONE SUPPLIER)

THREADED SPLICER BAR LENGTH = MIN. LAP LENGTH + 1 1/2" + THREAD LENGTH

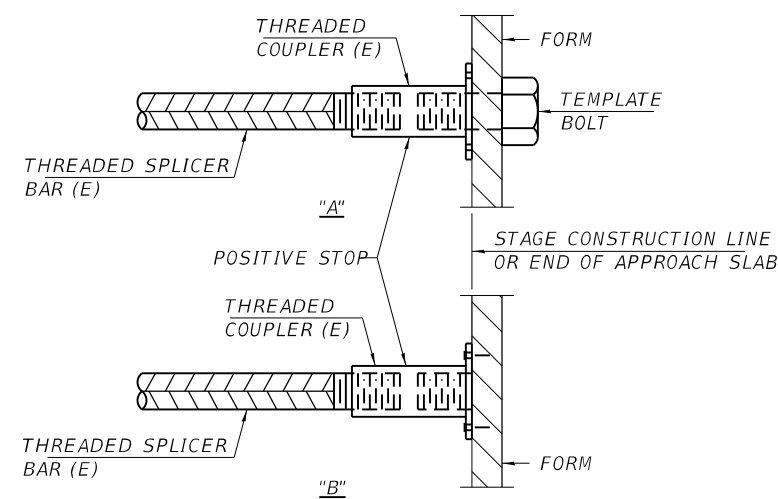
* EPOXY NOT REQUIRED ON BAR SPLICER ASSEMBLY COMPONENTS USED IN CONJUNCTION WITH BLACK BARS.

STRUCTURE 053-0027

LOCATION	BAR SIZE	NO. ASSEMBLIES REQUIRED	MINIMUM LAP LENGTH
W. ABUT. - HATCH BLOCK	#6	4	4'-0"
W. ABUT. - DECK	#7	4	6'-3"
W. ABUT. APPROACH SLAB	#5	32	3'-0"
	#8	42	4'-9"
W. ABUT. APPROACH FOOTING	#5	40	3'-0"
W. ABUT. PAVEMENT CONNECTOR	#6	11	N/A

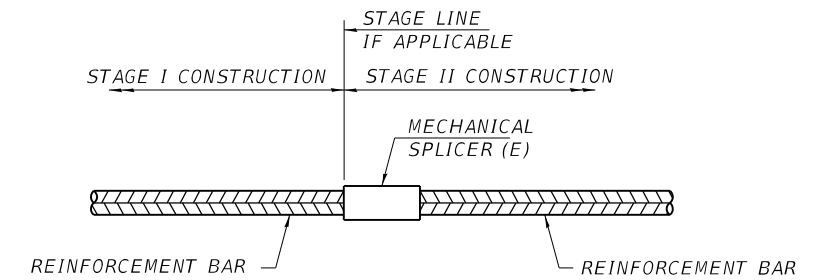
STRUCTURE 053-0167

LOCATION	BAR SIZE	NO. ASSEMBLIES REQUIRED	MINIMUM LAP LENGTH
W. ABUT. - HATCH BLOCK	#6	4	4'-0"
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	#8	42	4'-9"
W. ABUT. APPROACH FOOTING	#5	40	3'-0"
W. ABUT. PAVEMENT CONNECTOR	#6	11	N/A



INSTALLATION AND SETTING METHODS

"A" : SET BAR SPLICER ASSEMBLY BY MEANS OF A TEMPLATE BOLT.
 "B" : SET BAR SPLICER ASSEMBLY BY NAILING TO WOOD FORMS OR CEMENTING TO STEEL FORMS.
 (E) : INDICATES EPOXY COATING.



STANDARD MECHANICAL SPLICER

LOCATION	BAR SIZE	NO. ASSEMBLIES REQUIRED

NOTES:
 SPLICER BARS SHALL BE DEFORMED WITH THREADED ENDS AND HAVE A MINIMUM 60 KSI YIELD STRENGTH.
 ALL REINFORCEMENT SHALL BE LAPPED AND TIED TO THE SPLICER BARS.
 BAR SPLICER ASSEMBLIES SHALL BE EPOXY COATED ACCORDING TO THE REQUIREMENTS FOR REINFORCEMENT BARS. SEE SECTION 508 OF THE STANDARD SPECIFICATIONS.
 SEE APPROVED LIST OF BAR SPLICER ASSEMBLIES AND MECHANICAL SPLICERS FOR ALTERNATIVES.

BSD-1

1-1-2020

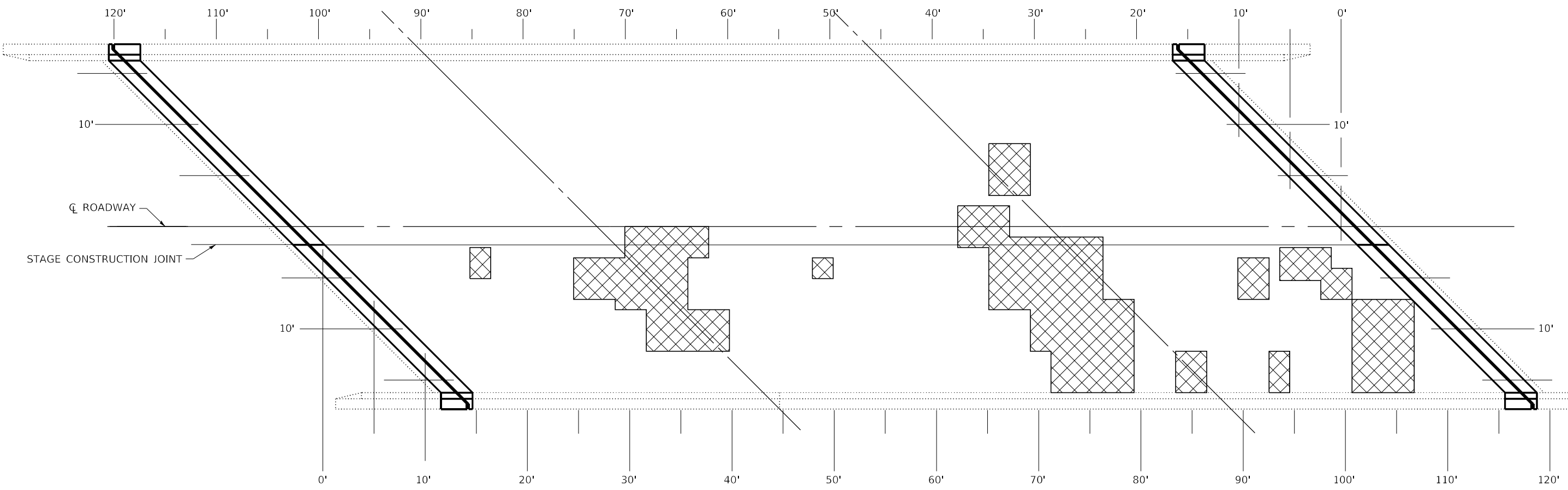
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BAR SPLICER ASSEMBLY AND MECHANICAL SPLICER DETAILS
FOR STRUCTURE NO. 053-0167

SCALE: SHEET 11 OF 13 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
649	(108BR-2, 108-BR-3)BRR	LIVINGSTON	42	40
CONTRACT NO. 66M75			ILLINOIS FED. AID PROJECT	

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PLAN
STRUCTURE NO.053-0027
DECK SLAB REPAIR

THE DECK SLAB REPAIR AREAS SHOWN ARE ESTIMATED. THE ENGINEER SHALL SOUND THE ENTIRE DECK SURFACE TO DETERMINE ACTUAL LOCATIONS AND AREAS OF DECK SLAB REPAIRS INCLUDING PARTIAL AND FULL DEPTH REPAIRS.

NOTE:

THE DECK SLAB REPAIR AREAS SHOWN ARE ESTIMATED. THE ENGINEER SHALL SOUND THE ENTIRE DECK SURFACE TO DETERMINE ACTUAL LOCATIONS AND AREAS OF DECK SLAB REPAIRS INCLUDING PARTIAL AND FULL DEPTH REPAIRS.

 DECK SLAB REPAIR (PARTIAL)

BILL OF MATERIAL

ITEM	UNIT	TOTAL
DECK SLAB REPAIR (PARTIAL)	SQ YD	51
PROTECTIVE COAT	SQ YD	51

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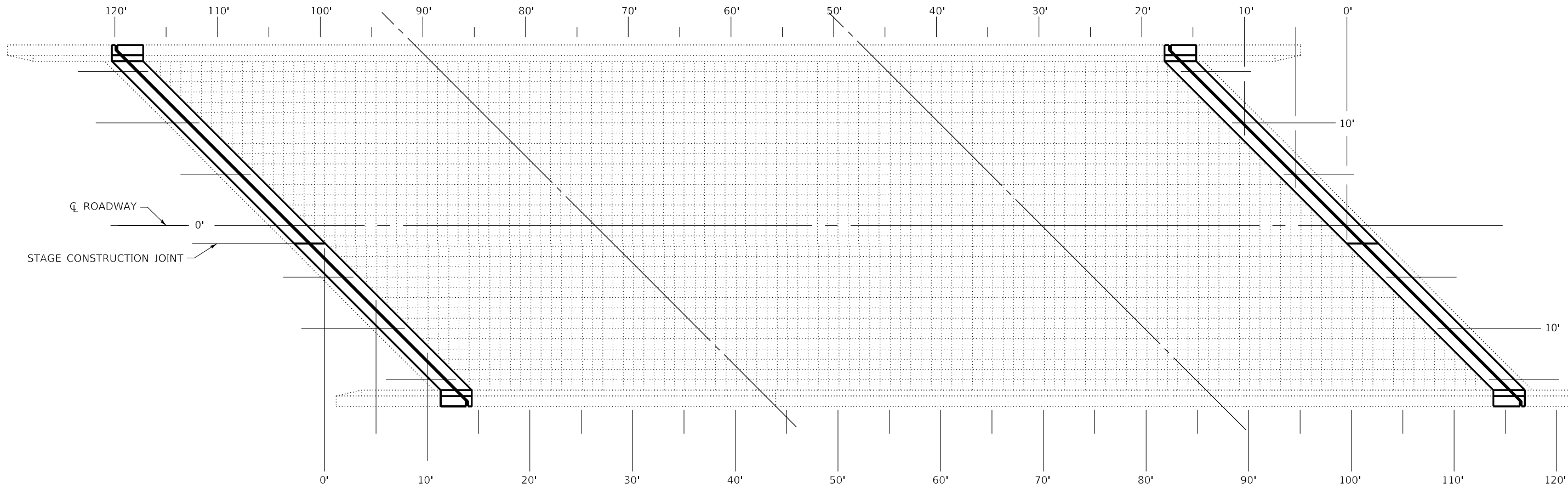
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DECK SLAB REPAIR DETAILS
FOR STRUCTURE NO. 053-0167

SCALE: SHEET 12 OF 13 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
649	(108BR-2, 108-BR-3)BRR	LIVINGSTON	42	41
CONTRACT NO. 66M75				
ILLINOIS FED. AID PROJECT				



PLAN
STRUCTURE NO.053-0027
"AS-BUILT" DECK SLAB REPAIR

NOTE:

WHEN ALL DECK SLAB REPAIRS HAVE BEEN COMPLETED, THE ENGINEER SHALL RECORD THE ACTUAL DECK SLAB REPAIR LOCATIONS AND REPAIR AREAS ON THIS "AS-BUILT" PLAN SHEET. WHEN ALL DECK SLAB REPAIR AREAS HAVE BEEN SHOWN ON THIS DETAIL, THE "AS-BUILT" DECK SLAB REPAIRS SHALL BE SUBMITTED TO THE BRIDGE OFFICE FOR THEIR RECORD. "SEE COMMITMENTS".

"AS-BUILT"
BILL OF MATERIAL

ITEM	UNIT	TOTAL
DECK SLAB REPAIR (PARTIAL)	SQ YD	
DECK SLAB REPAIR (FULL DEPTH, TYPE I)	SQ YD	
DECK SLAB REPAIR (FULL DEPTH, TYPE II)	SQ YD	

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

"AS-BUILT" DECK SLAB REPAIR DETAILS
FOR STRUCTURE NO. 053-0167

SCALE: SHEET 13 OF 13 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
649	(108BR-2, 108-BR-3)BRR	LIVINGSTON	42	42
			CONTRACT NO. 66M75	
			ILLINOIS FED. AID PROJECT	