

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
506	123B-1(BDR,BRR,BJR)	HANCOCK	13	1
		ILLINOIS	CONTRACT NO. 72343	

D-96-037-25



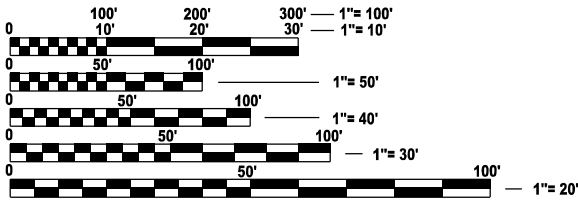
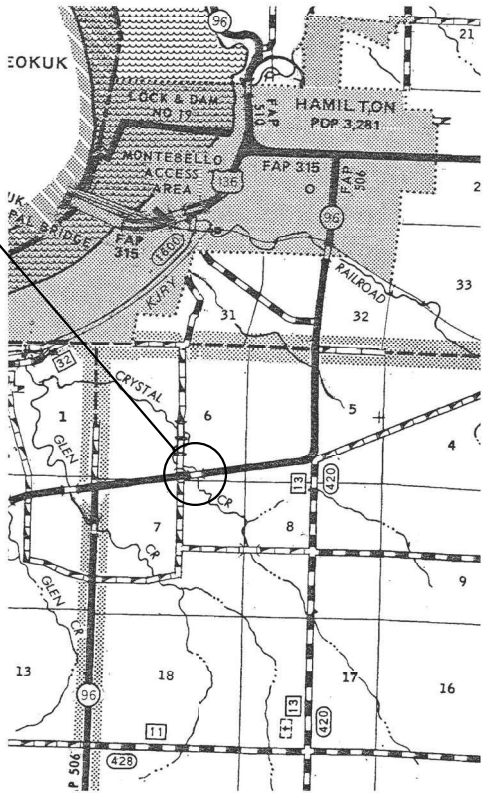
FOR INDEX OF SHEETS, SEE SHEET NO. 2

PROPOSED
HIGHWAY PLANS

FAP ROUTE 506 (IL 96)
SECTION 123B-1(BDR,BRR,BJR)
PROJECT (STATE ONLY)
BRIDGE JOINT REMOVAL
HANCOCK COUNTY
C-96-071-25



PROJECT LOCATION
SN 034-0067
IL 96 OVER CRYSTAL CREEK
3.1 MI S US 136



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: BRANDON DUDLEY - (217) 785-9290
PROJECT MANAGER

CONTRACT NO. 72343

GROSS LENGTH = 63 FT. = 0.01 MILE
NET LENGTH = 63 FT. = 0.01 MILE

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED March 18 2025
Lora Remy
REGIONAL ENGINEER

May 9 2025
Scott A. Etkin
ENGINEER OF DESIGN AND ENVIRONMENT

May 9 2025
Y. Harty
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS

INDEX OF SHEETS

- 1COVER SHEET
- 2INDEX, STANDARDS, GENERAL NOTES, SIGNATURES, & SCHEDULES
- 3-4SUMMARY OF QUANTITIES
- 5TYPICAL SECTION
- 6ROADWAY PLAN
- 7-9TRAFFIC CONTROL PLAN
- 10-13BRIDGE PLANS, SN 034-0067

HIGHWAY STANDARDS

- 000001-08
- 001001-02
- 001006
- 701001-02
- 701006-05
- 701201-05
- 701301-04
- 701321-19
- 701326-04
- 701901-10
- 704001-08
- 782006-01

HMA MIX TABLE		
MIXTURE USE	HMA BASE CSE (TOP 1.5")	HMA BASE CSE (LOWER LIFTS)
PG	PG 64-22	PG 64-22
DESIGN AIR VOIDS	4.0% @ N50	4.0% @ N50
MIXTURE COMPOSITION	IL-9.5	IL-19.0
FRICTION AGGREGATE	MIX "C"	N/A
MIXTURE WEIGHT	112 LB/SY*IN	112 LB/SY*IN
QUALITY MANAGEMENT	QC/QA	QC/QA
SUBLOT SIZE	N/A	N/A

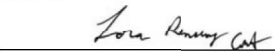
GENERAL NOTES:

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
DISTRICT 6

EXAMINEDFebruary 24,2025


ENGINEER OF OPERATIONS

EXAMINEDMarch 17,2025


ENGINEER OF PROJECT IMPLEMENTATION

EXAMINEDMarch 17,2025


ENGINEER OF PROGRAM DEVELOPMENT

MODEL: index [Sheet]
FILE NAME: c:\p\work\pwt\td\udley\cml\1074139\00 D672343 File Creation\72343 plansheet.dgn

MODEL: SQQ [Sheet]
FILE NAME: c:\pw_workspace\brandon.dudley\mtd107413900 D672343 File Creation72343 plansheet.dgn

				0-02179-6031
				SN 034-0067
				100% STATE
				BRIDGE
				0047-RURAL
				HANCOCK
20200500	EARTH EXCAVATION (WIDENING)	CU YD	19	19
35650300	BASE COURSE WIDENING 8"	SQ YD	84	84
50102400	CONCRETE REMOVAL	CU YD	30.1	30.1
50300255	CONCRETE SUPERSTRUCTURE	CU YD	42	42
50300300	PROTECTIVE COAT	SQ YD	85	85
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	4400	4400
50800515	BAR SPLICERS	EACH	58	58
67100100	MOBILIZATION	L SUM	1	1
70100405	TRAFFIC CONTROL AND PROTECTION, STANDARD 701321	EACH	1	1
70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	L SUM	1	1
70100500	TRAFFIC CONTROL AND PROTECTION, STANDARD 701326	L SUM	1	1
70106500	TEMPORARY BRIDGE TRAFFIC SIGNALS	EACH	1	1
70106700	TEMPORARY RUMBLE STRIPS	EACH	6	6
70107025	CHANGEABLE MESSAGE SIGN	CAL DAY	135	135

REV - MS

	USER NAME = brandon.dudley	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUMMARY OF QUANTITIES			F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN -	REVISED -					506	123B-1(BDR,BRR,BJR)	HANCOCK	13	3
		CHECKED -	REVISED -					CONTRACT NO. 72343				
	PLOT DATE = 2/13/2025	DATE -	REVISED -		SCALE:	SHEET 3	OF 2	SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT	

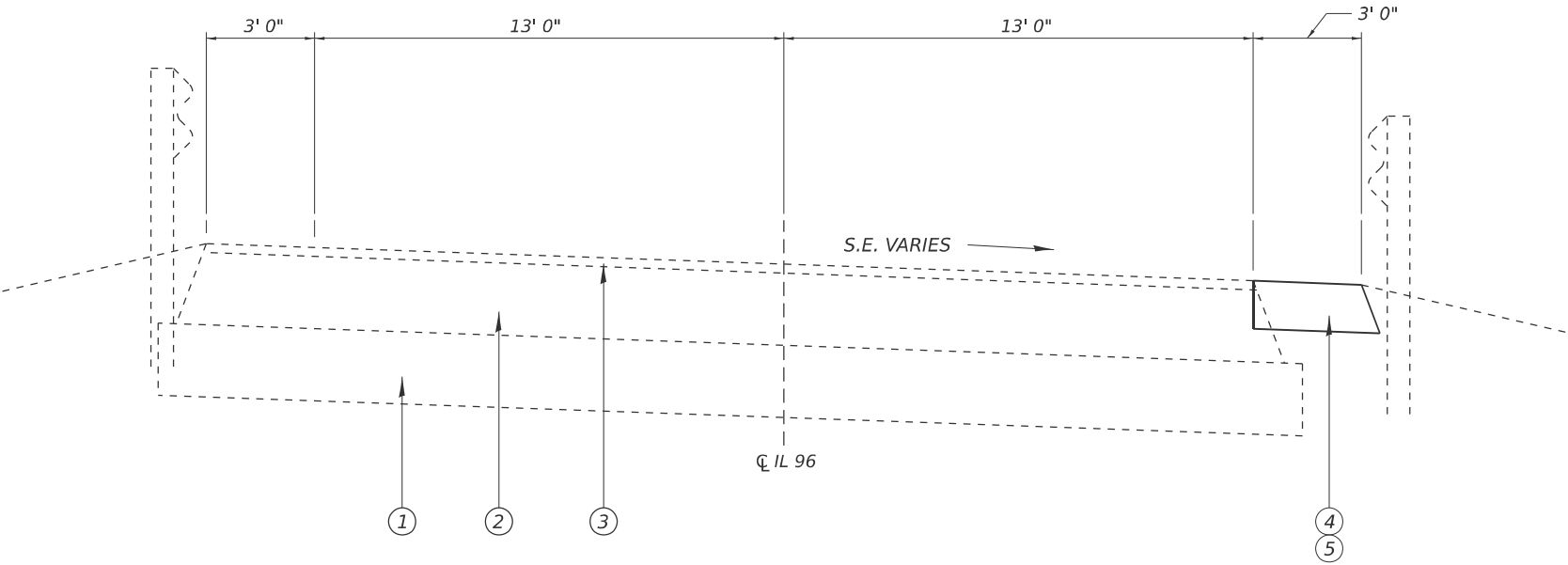
MODEL: SQ0-1 [Sheet]
FILE NAME: c:\pw_work\pwitoldudley\mld1074139\00 D672343 File Creation72343 plansheet.dgn

				0-02179-6031
				SN 034-0067
				100% STATE
CODE NO.	ITEM	UNIT	TOTAL QUANTITY	BRIDGE
				0047-RURAL
				HANCOCK
70400100	TEMPORARY CONCRETE BARRIER	FOOT	375	375
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	375	375
70600250	IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3	EACH	2	2
70600352	IMPACT ATTENUATORS, RELOCATE (NON-REDIRECTIVE, NARROW), TEST LEVEL 3	EACH	2	2
* 78009005	MODIFIED URETHANE PAVEMENT MARKING - LINE 5"	FOOT	2600	2600
78300201	PAVEMENT MARKING REMOVAL - GRINDING	SQ FT	550	550
X7200201	WIDTH RESTRICTION SIGNING	L SUM	1	1
Z0001800	APPROACH SLAB REPAIR (PARTIAL DEPTH)	SQ YD	5	5
Z0012754	STRUCTURAL REPAIR OF CONCRETE (DEPTH EQUAL TO OR LESS THAN 5 INCHES)	SQ FT	20	20
Z0016200	DECK SLAB REPAIR (PARTIAL)	SQ YD	5	5
Z0032500	JOINT SEALING (PATCHES)	FOOT	300	300

* SPECIALTY ITEM

	USER NAME = brandon.dudley	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUMMARY OF QUANTITIES			F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN -	REVISED -					506	123B-1(BDR,BRR,BJR)	HANCOCK	13	4
		CHECKED -	REVISED -		CONTRACT NO. 72343							
	PLOT DATE = 2/13/2025	DATE -	REVISED -		SCALE:	SHEET 4	OF 2 SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT		

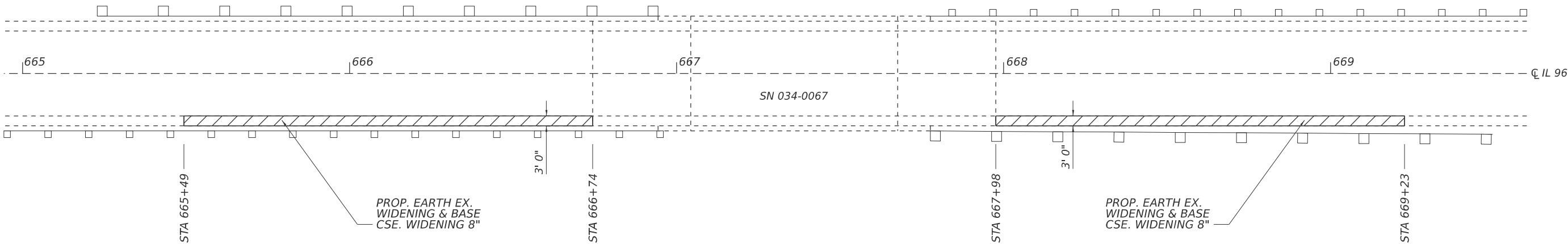
- ① EX. SUBBASE GRANULAR MATL, 12"
- ② EX. HMA FD PAVT, 13"
- ③ EX. HMA SURF. CSE, 1-1/2"
- ④ PR. EARTH EX. WIDENING
- ⑤ PR. BASE CSE. WIDENING - 8"



STA 665+49 TO STA 666+74
STA 667+98 TO STA 669+23

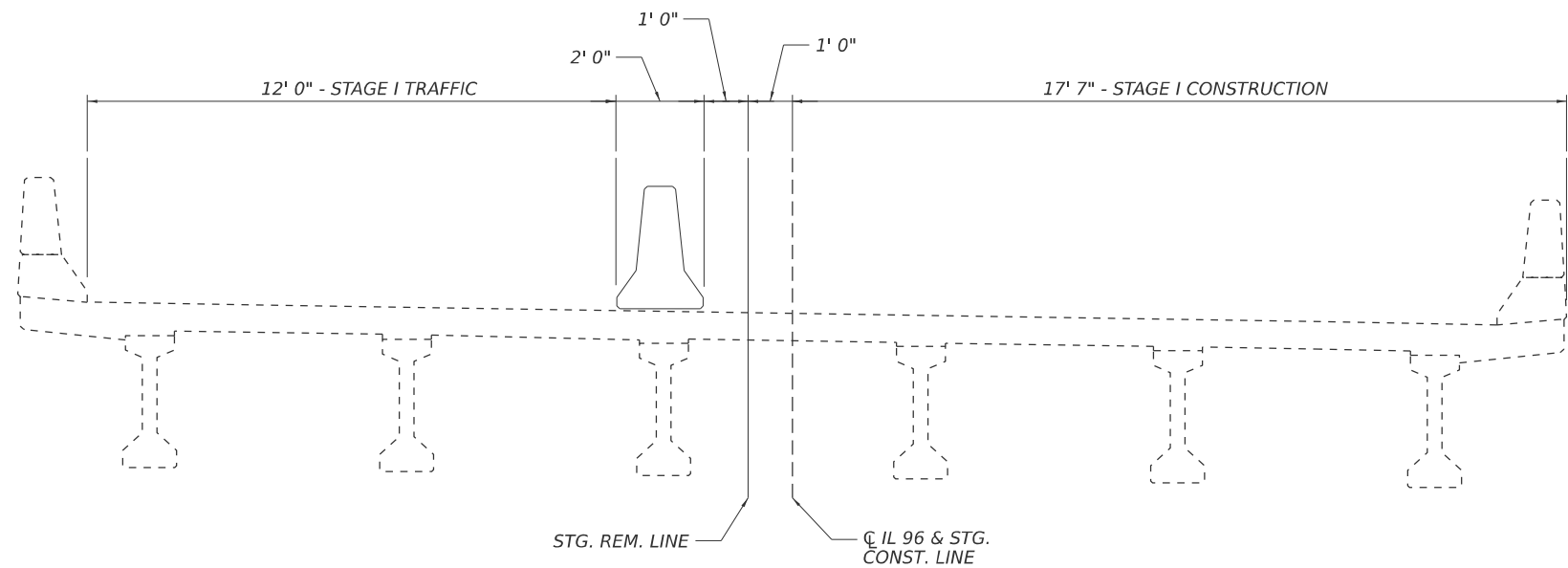
MODEL: typicals [Sheet]
FILE NAME: c:\p\work\p\w\brandon.dudley\m\1074139\00 D672343 File Creation72343 plansheet.dgn

	USER NAME = brandon.dudley	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TYPICAL SECTION			F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN -	REVISED -					506	123B-1(BDR,BRR,BJR)	HANCOCK	13	5
		CHECKED -	REVISED -					CONTRACT NO. 72343				
	PLOT DATE = 2/13/2025	DATE -	REVISED -		SCALE:	SHEET 5	OF 1 SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT		

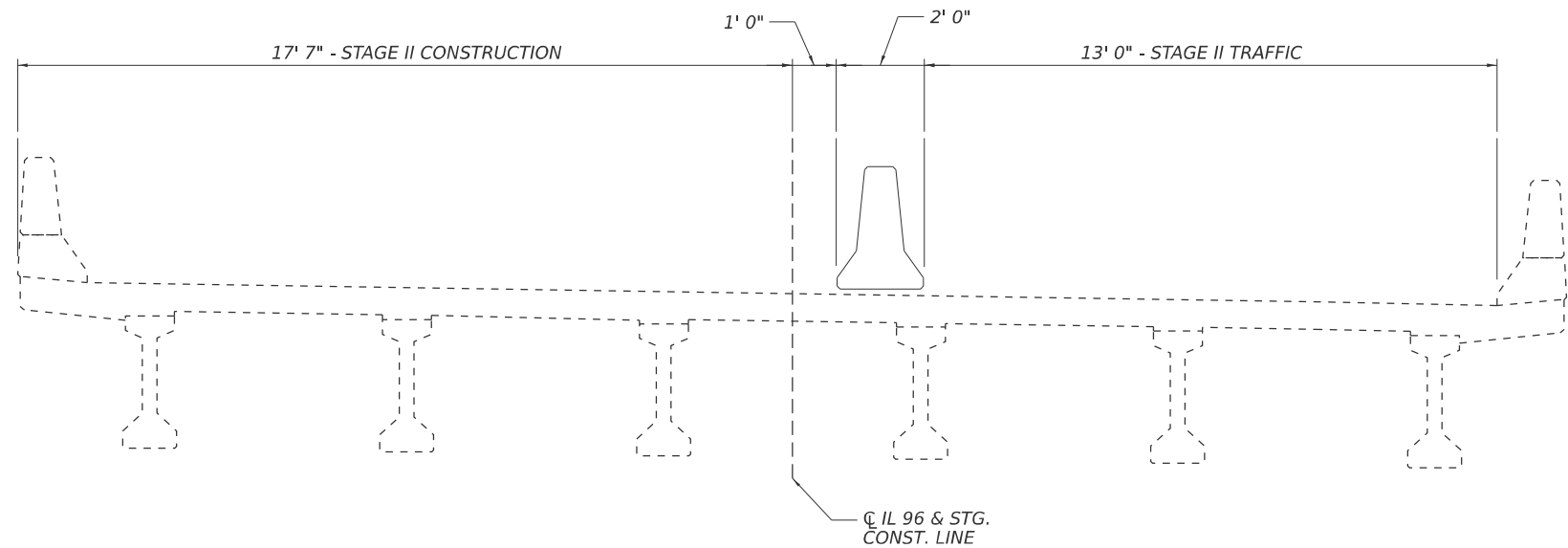


PLAN

FILE NAME:	USER NAME = brandon.dudley	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ROADWAY PLAN					F.A.P RTE.	SECTION		COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN -	REVISED -							506	123B-1(BDR,BRR,BJR)		HANCOCK	13	6
		CHECKED -	REVISED -												
	PLOT DATE = 2/13/2025	DATE -	REVISED -												
					SCALE:	SHEET 6	OF 4 SHEETS	STA.	TO STA.		CONTRACT NO. 72343				
					ILLINOIS FED. AID PROJECT										



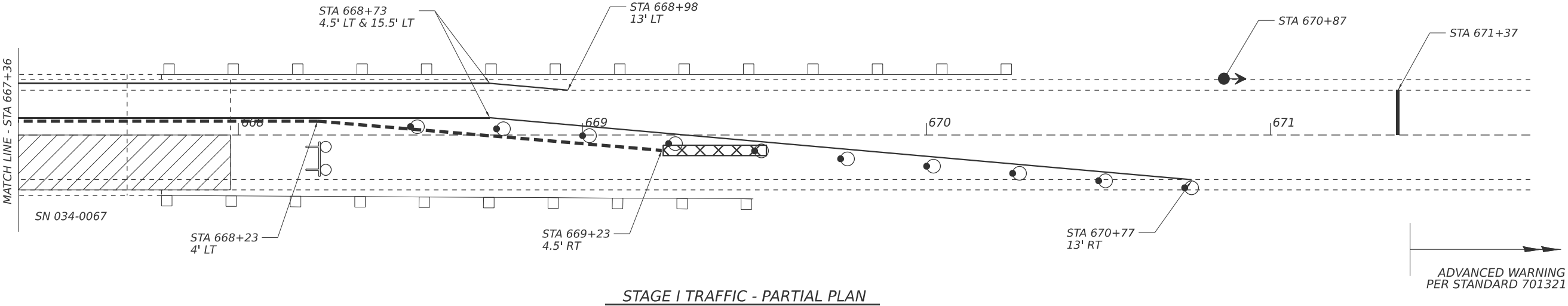
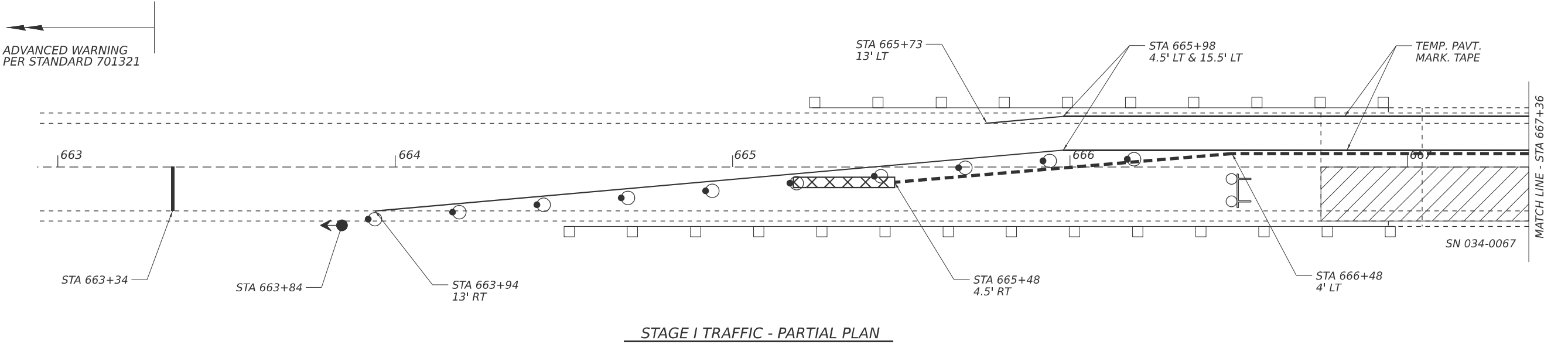
STAGE I TRAFFIC - LOOKING WEST



STAGE II TRAFFIC - LOOKING WEST

MODEL: traffic [Sheet]
FILE NAME: c:\p\work\pwt\tdudley\mld1074139\00 D672343 File Creation72343 plansheet.dgn

	USER NAME = brandon.dudley	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TRAFFIC STAGING DETAIL			F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN -	REVISED -					506	123B-1(BDR,BRR,BJR)	HANCOCK	13	7
		CHECKED -	REVISED -		SCALE: SHEET 7 OF 4 SHEETS STA. TO STA.			CONTRACT NO. 72343				
	PLOT DATE = 3/17/2025	DATE -	REVISED -					ILLINOIS FED. AID PROJECT				



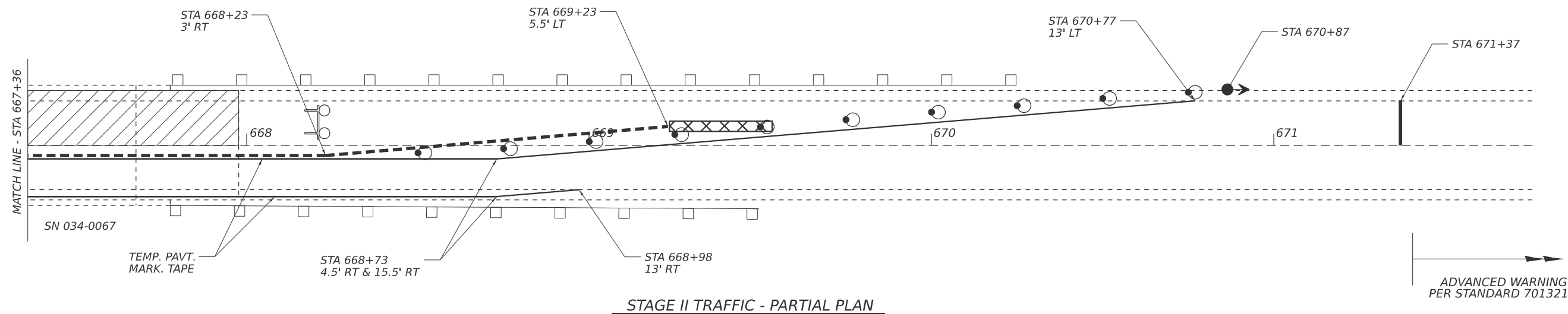
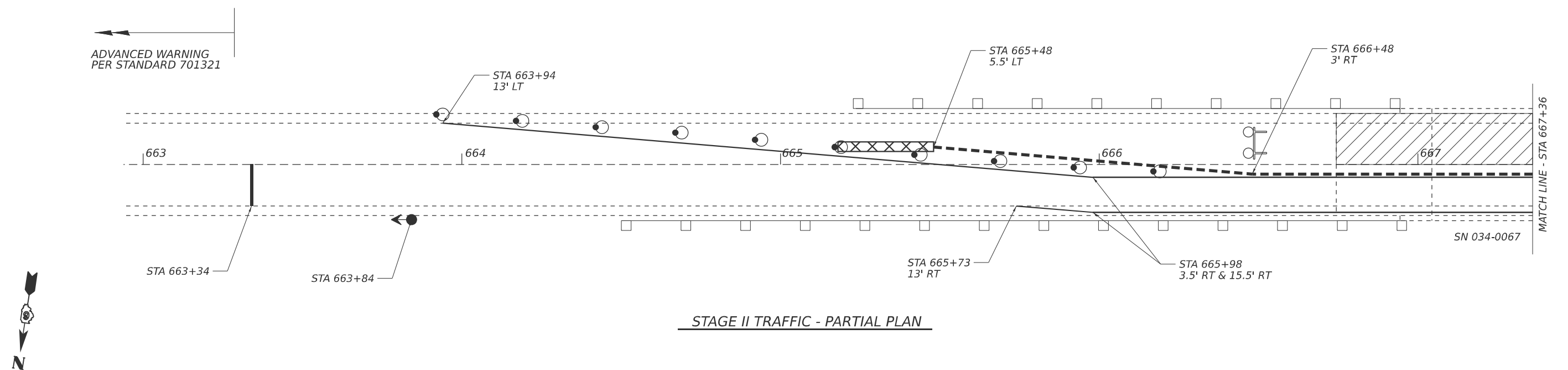
SYMBOLS

- WORK AREA
- DRUM WITH STEADY BURN
BI-DIRECTIONAL LIGHT
- TRAFFIC SIGNAL
- TYPE III BARRICADE WITH
FLASHING LIGHTS
- TEMPORARY CONCRETE BARRIER
- IMPACT ATTENUATOR

- TRAFFIC CONTROL NOTES:
- Traffic control devices not shown in this detail shall be per standard 701321. Devices and temporary pavement markings shown in this detail shall be included in the cost of TRAFFIC CONTROL AND PROTECTION, STANDARD 701321. Impact attenuators temporary rumble strips, temporary concrete barrier, and temporary traffic signals shall be paid separately.
 - Temporary concrete barrier offsets given in this detail refer to the edge of the barrier nearest to live traffic.

MODEL: traffic-1 [Sheet]
FILE NAME: c:\p\work\pwork\dudley\mtd1074139\00 D672343 File Creation\72343 plansheet.dgn

	USER NAME = brandon.dudley	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	STAGE I TRAFFIC CONTROL PLAN			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN -	REVISED -					506	123B-1(BDR,BRR,BJR)	HANCOCK	13	8
		CHECKED -	REVISED -					CONTRACT NO. 72343				
	PLOT DATE = 2/13/2025	DATE -	REVISED -		SCALE:	SHEET 8	OF 4 SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT		



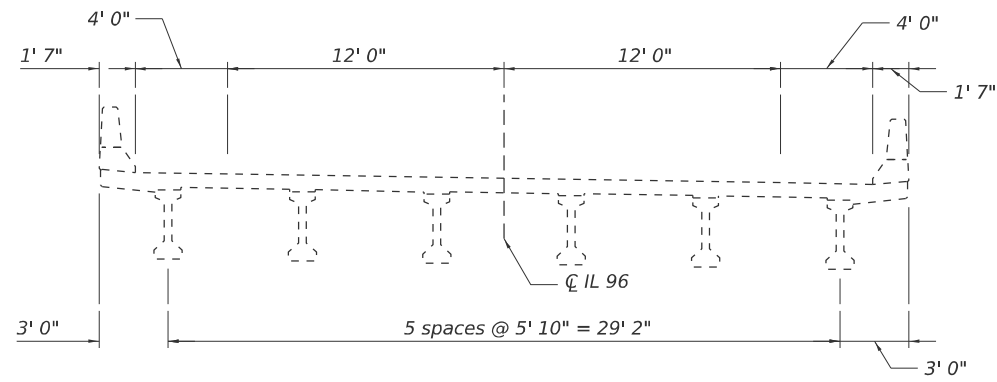
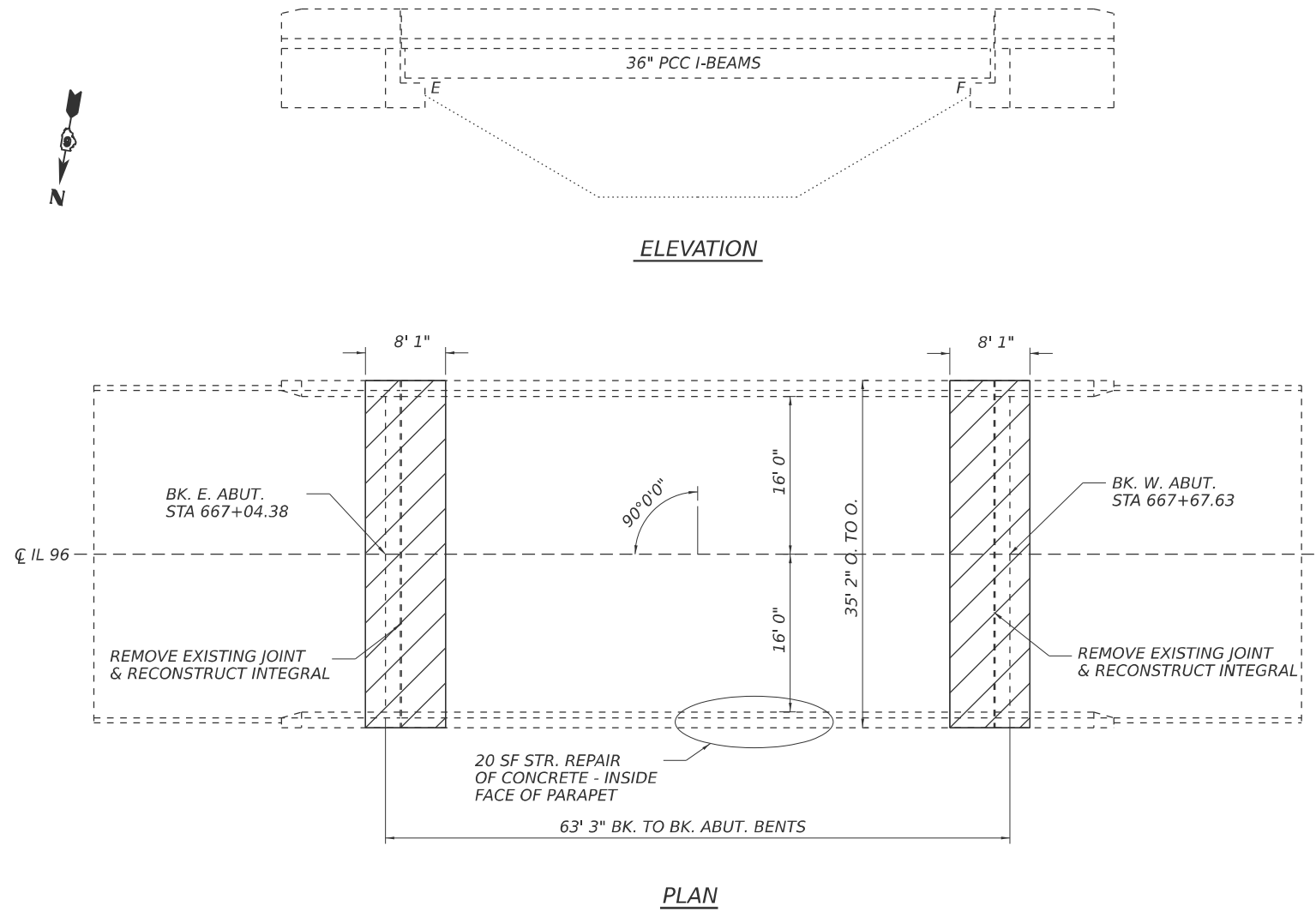
SYMBOLS

	WORK AREA
	DRUM WITH STEADY BURN BI-DIRECTIONAL LIGHT
	TRAFFIC SIGNAL
	TYPE III BARRICADE WITH FLASHING LIGHTS
	TEMPORARY CONCRETE BARRIER
	IMPACT ATTENUATOR

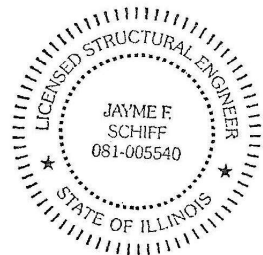
TRAFFIC CONTROL NOTES:

1. Traffic control devices not shown in this detail shall be per standard 701321. Devices and temporary pavement markings shown in this detail shall be included in the cost of **TRAFFIC CONTROL AND PROTECTION, STANDARD 701321**. Impact attenuators temporary rumble strips, temporary concrete barrier, and temporary traffic signals shall be paid separately.
2. Temporary concrete barrier offsets given in this detail refer to the edge of the barrier nearest to live traffic.

FILE NAME:	USER NAME = brandon.dudley	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	STAGE II TRAFFIC CONTROL PLAN				F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN -	REVISED -						506	123B-1(BDR,BRR,BJR)	HANCOCK	13	9
		CHECKED -	REVISED -										
	PLOT DATE = 2/13/2025	DATE -	REVISED -										
	SCALE:				SHEET 9	OF 4	SHEETS	STA.	TO STA.		CONTRACT NO. 72343		
								ILLINOIS FED. AID PROJECT					



CROSS SECTION
(LOOKING WEST)



EXPIRES 11-30-2025
Jayme F. Schiff

TOTAL BILL OF MATERIAL (034-0067)

ITEM	UNIT	QUANTITY
Concrete Removal	Cu. Yd.	30.1
Concrete Superstructure	Cu. Yd.	42.0
Reinforcement Bars, Epoxy Coated	Pound	4400
Bar Splicers	Each	58
* Approach Slab Repair (Partial Depth)	Sq. Yd.	5
* Deck Slab Repair (Partial)	Sq. Yd.	5
Protective Coat	Sq. Yd.	85
Structural Repair Of Concrete (Depth Equal To Or Less Than 5")	Sq. Ft.	20
Joint Sealing (Patches)	Foot	300

* Quantity is estimated. Location and size of patches to be determined in the field by the Engineer.

STRUCTURE 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 THE SCOPE OF WORK, HOWEVER, THE CONTRACTOR WILL BE PAID FOR THE QUANTITY ACTUALLY FURNISHED AT THE UNIT PRICE BID FOR THE WORK.

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

THE DECK SURFACE SHALL HAVE ITS FINAL FINISH TINED ACCORDING TO ARTICLE ARTICLE 420.09(e)(1) OF THE STANDARD SPECIFICATIONS.

THE ENGINEER SHALL SHOW ACTUAL LOCATIONS AND SIZES OF DECK AND APPROACH REPAIRS ON THE AS BUILT PLANS.

REINFORCEMENT BARS DESGINATED (E) SHALL BE EPOXY COATED.

THE CONTRACTOR SHALL USE EXTREME CARE DURING CONCRETE REMOVAL SO AS NOT TO DAMAGE PPC I-BEAMS.

PROTECTIVE COAT TO BE APPLIED TO AREAS OF NEW CONCRETE ONLY.

MODEL: bridge [Sheet]
FILE NAME: c:\p\work\pwtdotdudley\cml1074139\00 D672343 File Creation72343 plansheet.dgn

USER NAME = brandon.dudley	DESIGNED - BRANDON DUDLEY	REVISED - BRANDON DUDLEY
	DRAWN - BRANDON DUDLEY	REVISED -
	CHECKED -	REVISED -
PLOT DATE = 4/25/2025	DATE -	REVISED -

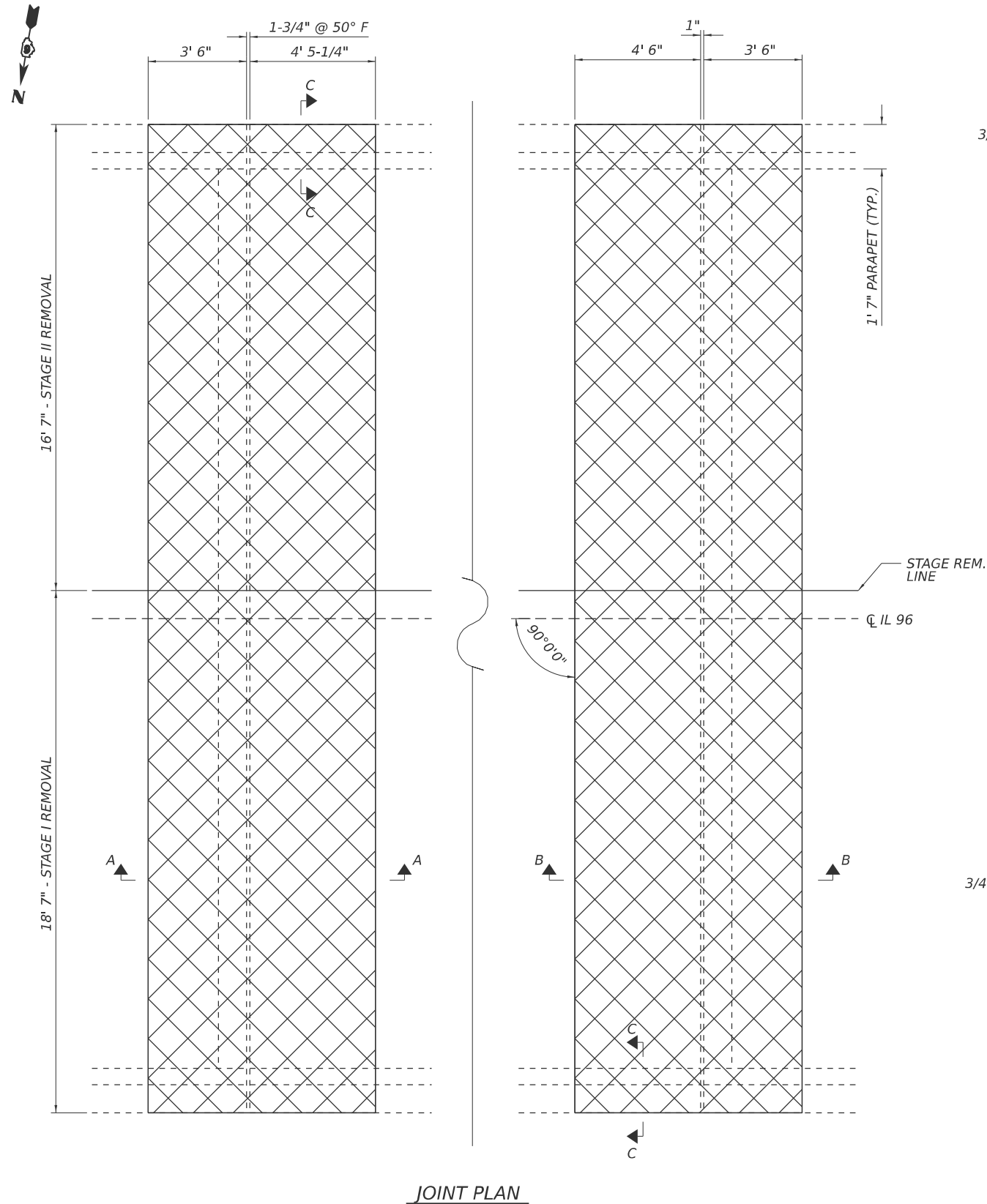
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BRIDGE PLAN & ELEVATION
SN 034-0067

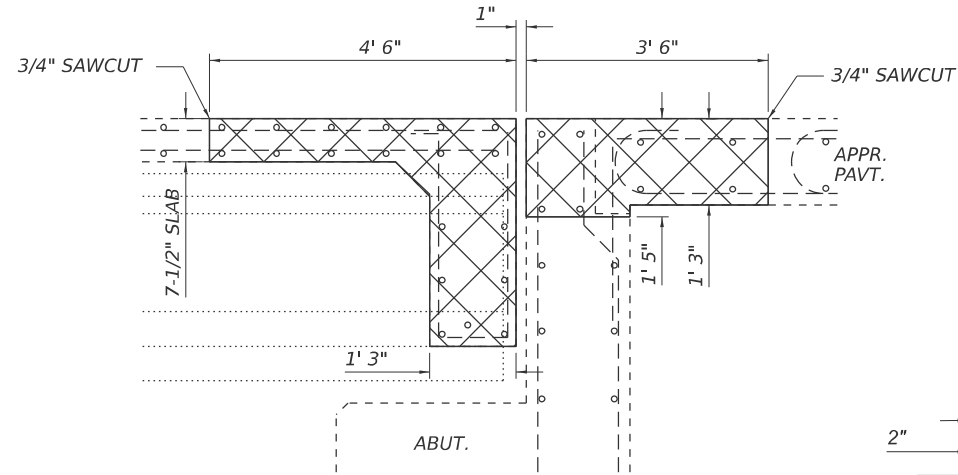
SCALE: SHEET 1 OF 4 SHEETS STA. TO STA.

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
506	123B-1(BDR,BRR,BJR)	HANCOCK	13	10
CONTRACT NO. 72343				
ILLINOIS FED. AID PROJECT				

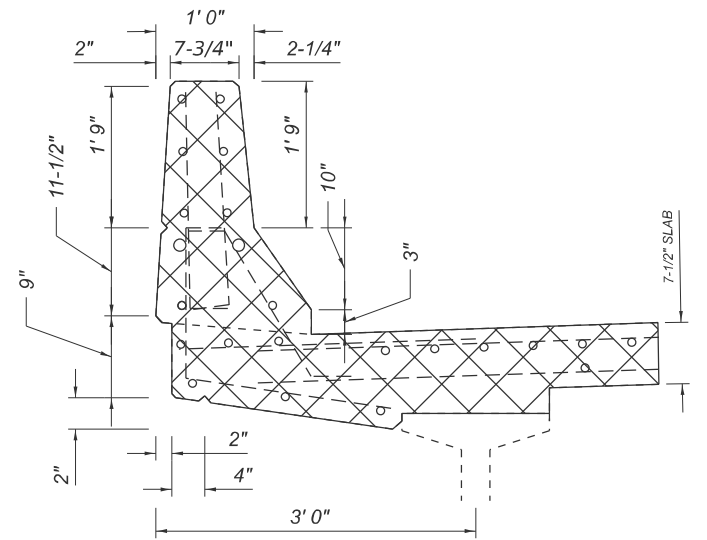
MODEL: bridge-1 [Sheet]
FILE NAME: c:\p\work\brandon.dudley\cml\1074139\00 D672343 File Creation\72343 plansheet.dgn



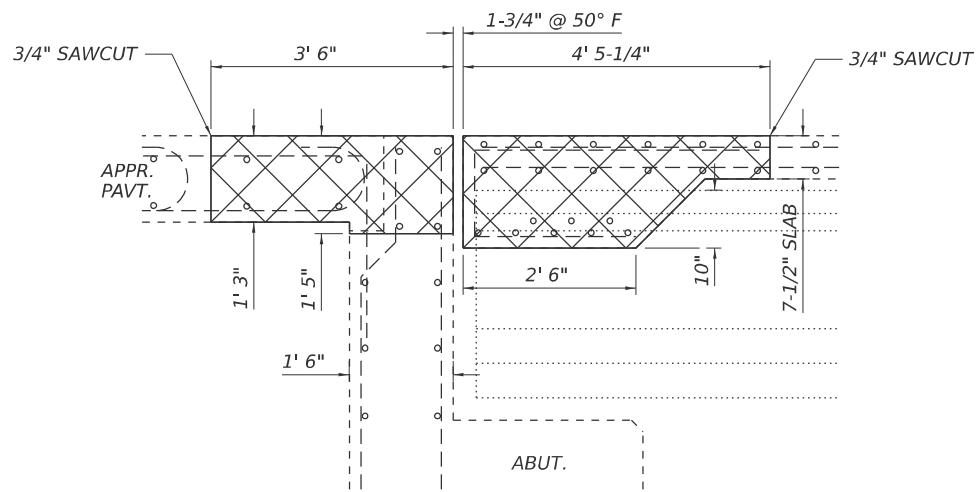
CONCRETE REMOVAL



SECTION B-B



SECTION C-C



SECTION A-A

NOTE: LONGITUDINAL BARS EXTENDING INTO THE REMOVAL AREAS SHALL REMAIN. TRANSVERSE BARS SHALL BE REMOVED.

USER NAME	= brandon.dudley	DESIGNED	-	REVISED	-
DRAWN	-	REVISION	-	REVISED	-
CHECKED	-	REVISION	-	REVISED	-
DATE	-	REVISION	-	REVISED	-

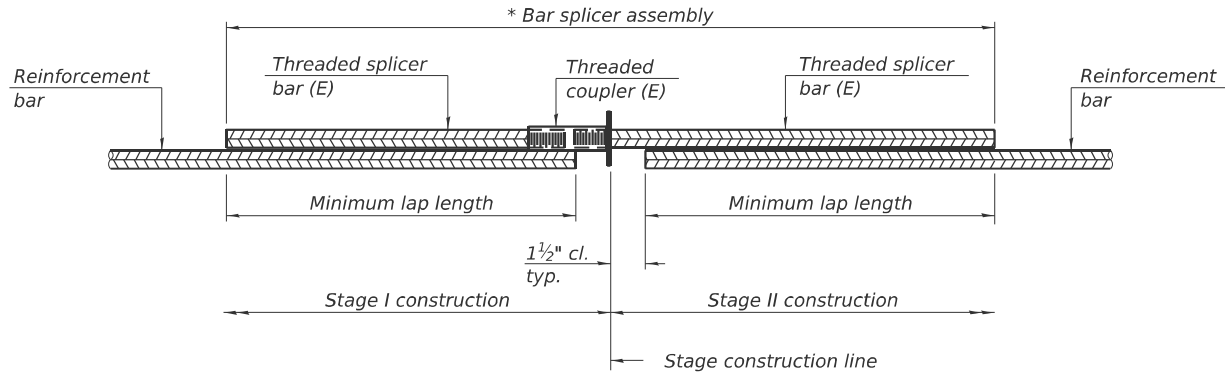
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CONCRETE REMOVAL DETAILS
SN 034-0067

SCALE: SHEET 2 OF 4 SHEETS STA. TO STA.

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
506	123B-1(BDR,BRR,BJR)	HANCOCK	13	11
CONTRACT NO. 72343				
ILLINOIS FED. AID PROJECT				

MODEL: bridge-3 [Sheet]
FILE NAME: c:\p\work\pwork\dudley\mld1074139\00 D672343 File Creation\72343 plansheet.dgn



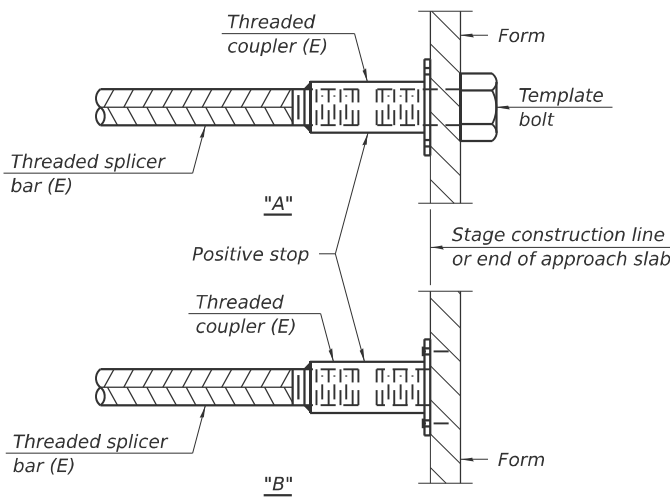
STANDARD BAR SPLICER ASSEMBLY PLAN

Only bar splicer assemblies as presented on the approved QPL list may be used.

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

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

Location	Bar size	No. assemblies required	Minimum lap length
Abut. Jts.	#5	58	3'-6"

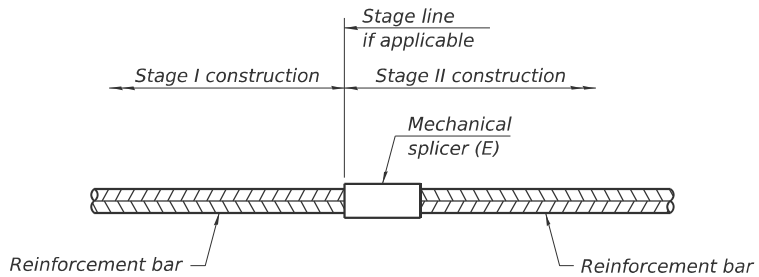


INSTALLATION AND SETTING METHODS

"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

5-15-2023

USER NAME = brandon.dudley	DESIGNED -	REVISED -
	DRAWN -	REVISED -
	CHECKED -	REVISED -
PLOT DATE = 2/13/2025	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BAR SPLICER ASSEMBLY & MECHANICAL SPLICER DETAILS
SN 034-0067

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
506	123B-1(BDR,BRR,BJR)	HANCOCK	13	13
		CONTRACT NO. 72343		
		ILLINOIS	FED. AID PROJECT	