

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1597	(13) BDR, BJR	ADAMS	8	1
		ILLINOIS	CONTRACT NO. 72M12	

FOR INDEX OF SHEETS, SEE SHEET NO. 2

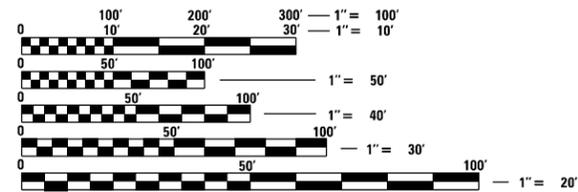
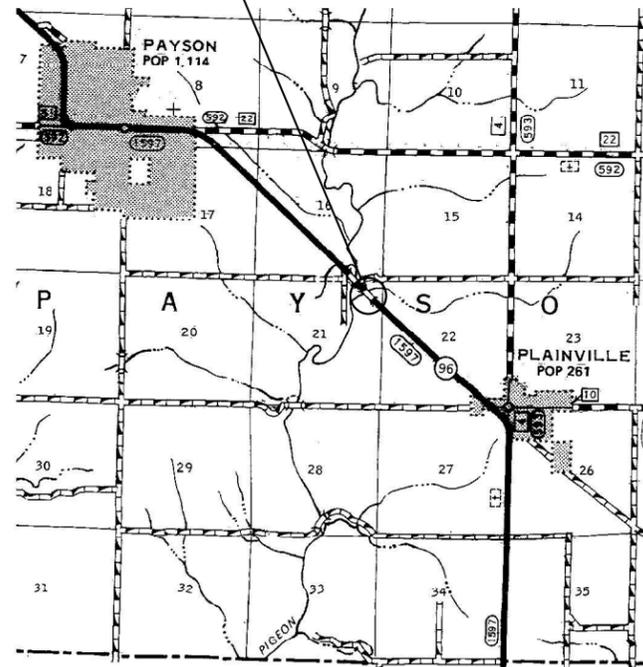
PROPOSED CONTRACT MAINTENANCE

FAS ROUTE 1597 (IL 96)
SECTION (13) BDR, BJR
PROJECT (STATE)
BRIDGE DECK PATCHING
ADAMS COUNTY

C-96-110-20



PROJECT LOCATION
SN 001-0073
IL 96 OVER PIGEON CREEK
1.7 MI SE PAYSON



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

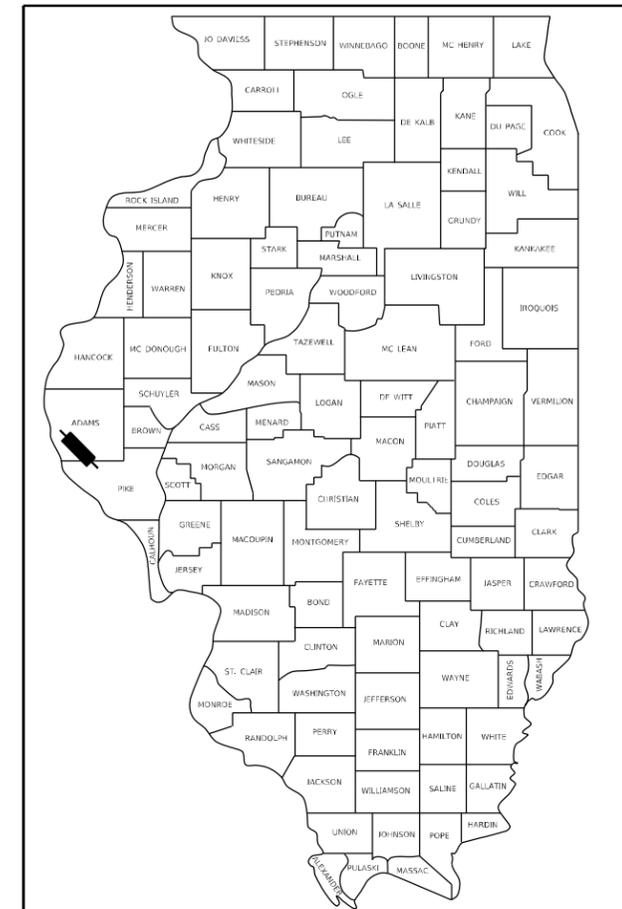
J.U.L.I.E.
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATORS
1-800-892-0123
OR 811

BRIDGE MAINTENANCE ENGINEER: BRANDON DUDLEY – (217) 785-9290

GROSS LENGTH = 250 FT. = 0.05 MILE
NET LENGTH = 250 FT. = 0.05 MILE

CONTRACT NO. 72M12

D-96-080-20



LOCATION OF SECTION INDICATED THIS: - [black rectangle] -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED May 4 2020

John P. Meyer
REGIONAL ENGINEER

June 26, 2020
Scott A. Etk
ENGINEER OF DESIGN AND ENVIRONMENT

June 26, 2020
James J. [Signature]
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS

INDEX OF SHEETS

- 1 COVER SHEET
- 2 INDEX, STANDARDS, SIGNATURES, & GENERAL NOTES
- 3 SUMMARY OF QUANTITIES
- 4 TRAFFIC CONTROL PLAN
- 5-8 SN 001-0073 BRIDGE PLANS

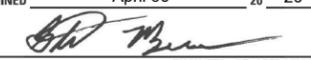
HIGHWAY STANDARDS

- 000001-07
- 001006
- 701001-02
- 701006-05
- 701201-05
- 701301-04
- 701316-13
- 701901-08

GENERAL NOTES:

AREAS OF DECK REPAIRS SHOWN ARE ESTIMATED. THE ENGINEER SHALL SHOW ACTUAL LOCATIONS OF DECK REPAIRS ON AS-BUILT PLANS.

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
DISTRICT 6**

EXAMINED April 30 2020

 ENGINEER OF OPERATIONS

EXAMINED April 30 2020

 ENGINEER OF PROJECT IMPLEMENTATION

EXAMINED April 28 2020

 ENGINEER OF PROGRAM DEVELOPMENT

MODEL: Default
 FILE NAME: \\CENTRALDB\OPERATIONS\Bridges\Bridges\CAD\72M12 - 0010073_deck_pacthing\plan\sheet.ctb

	USER NAME = dudleybm	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	INDEX, STANDARDS, GENERAL NOTES, & SIGNATURES	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
	PLOT SCALE = 100,0000 ' / in.	CHECKED -	REVISED -			1597	(13) BDR, BJR	ADAMS	8	2	
	PLOT DATE = 5/6/2020	DATE -	REVISED -			CONTRACT NO. 72M12					
						ILLINOIS FED. AID PROJECT					
				SCALE:	SHEET OF SHEETS	STA.	TO STA.				

0-02175-6006
 SN 001-0073
 100% STATE

0-02175-6006
 SN 001-0073
 100% STATE

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	BRIDGE/RURAL
				0047 ADAMS
50102400	CONCRETE REMOVAL	CU YD	0.1	0.1
67100100	MOBILIZATION	L SUM	1	1
70100100	TRAFFIC CONTROL AND PROTECTION, STANDARD 701316	EACH	1	1
70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	L SUM	1	1
70106500	TEMPORARY BRIDGE TRAFFIC SIGNALS	EACH	1	1
70106700	TEMPORARY RUMBLE STRIPS	EACH	6	6
X0323818	CLEANING AND PAINTING EXPOSED REBAR	SQ FT	10	10
X0325748	ACRYLIC COATING	SQ YD	4.6	4.6
X0325749	FIBER WRAP	SQ FT	37.8	37.8
X7200201	WIDTH RESTRICTION SIGNING	L SUM	1	1
Z0001800	APPROACH SLAB REPAIR (PARTIAL DEPTH)	SQ YD	117	117
Z0012500	CONCRETE CURB REPAIR	FOOT	10	10
Z0016002	DECK SLAB REPAIR (FULL DEPTH, TYPE II)	SQ YD	2	2
Z0016200	DECK SLAB REPAIR (PARTIAL)	SQ YD	45	45

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	BRIDGE/RURAL
				0047 ADAMS
Z0021903	SILICONE JOINT SEALER, 3/4"	FOOT	54	54
Z0021908	SILICONE JOINT SEALER, 2"	FOOT	96	96
Z0032500	JOINT SEALING (PATCHES)	FOOT	660	660
Z0041895	POLYMER CONCRETE	CU FT	16	16
Z0043800	PRECAST PRESTRESSED CONCRETE I-BEAM REPAIR	SQ FT	10.3	10.3

MODEL: Default
 FILE NAME: \\CENTRALDB\OPERATIONS\Bridges\Bridges\CAD\72M12_0010073_deck_patching\punchec.dgn

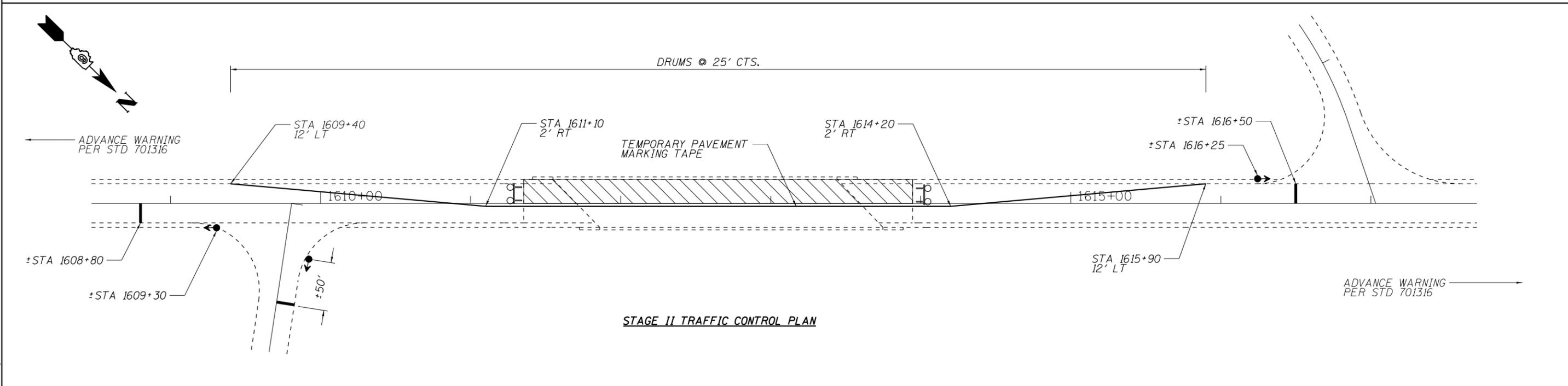
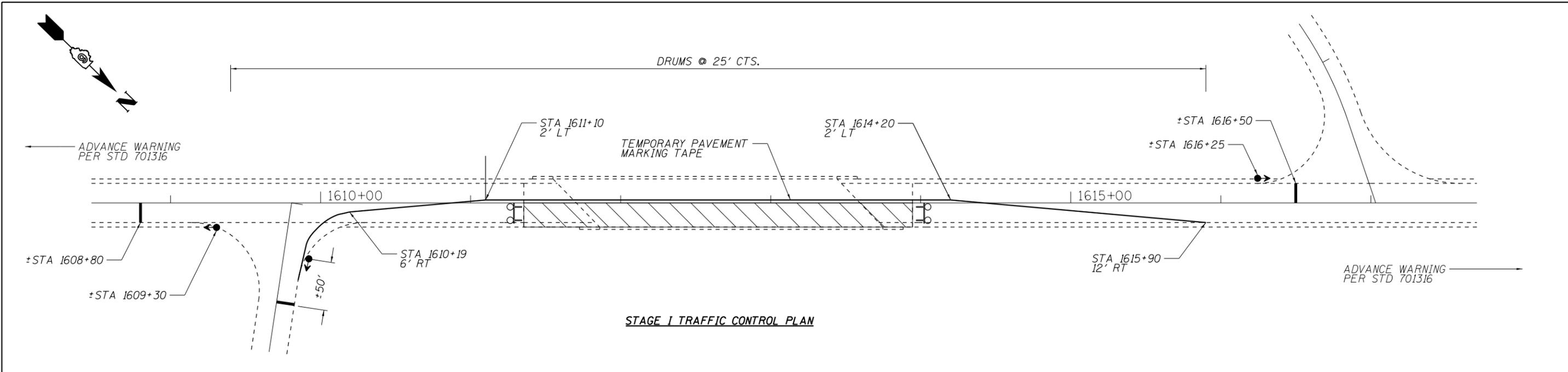
USER NAME = dudleybm	DESIGNED -	REVISED -
PLOT SCALE = 100.0000 ' / in.	DRAWN -	REVISED -
PLOT DATE = 5/6/2020	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1597	(13) BDR, BJR	ADAMS	8	3
CONTRACT NO. 72M12			ILLINOIS FED. AID PROJECT	



SYMBOLS

- WORK AREA
- TRAFFIC SIGNAL
- TYPE III BARRICADE WITH FLASHING LIGHTS

TRAFFIC CONTROL NOTES:

1. TRAFFIC CONTROL DEVICES NOT SHOWN IN THIS DETAIL SHALL BE PER STANDARD 701316. DEVICES AND TEMPORARY PAVEMENT MARKINGS SHOWN IN THIS DETAIL SHALL BE INCLUDED IN THE COST OF TRAFFIC CONTROL AND PROTECTION, STANDARD 701316.

MODEL: Default
 FILE NAME: \\CENTRALDB\OPERATIONS\Bridges\Bridges\CAD\72M12_0010073_dect_trafficcontrol\stage1.dgn

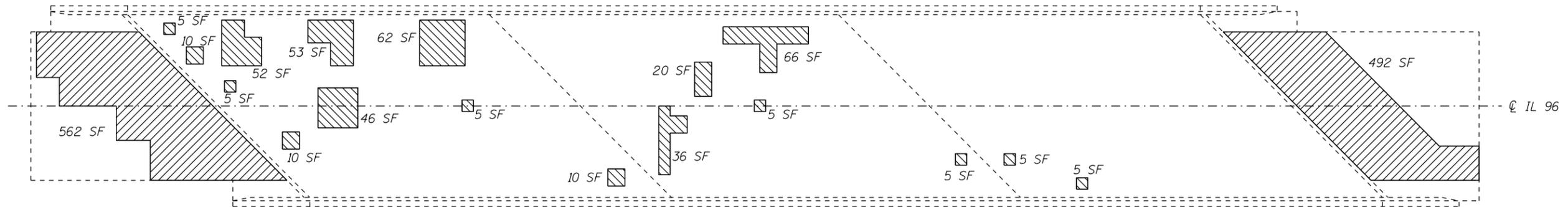
USER NAME = dudleybm	DESIGNED -	REVISED -
PLOT SCALE = 100,0000' / in.	DRAWN -	REVISED -
PLOT DATE = 5/6/2020	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

TRAFFIC CONTROL PLAN

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1597	(13) BDR, BJR	ADAMS	8	4
CONTRACT NO. 72M12				
ILLINOIS FED. AID PROJECT				



PLAN

 APPROACH SLAB REPAIR (PARTIAL DEPTH)
 DECK SLAB REPAIR (PARTIAL)

PATCHING BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Deck Slab Repair (Partial)	Sq. Yd.	45
Approach Slab Repair (Partial Depth)	Sq. Yd.	117
Deck Slab Repair (Full Depth, Type II) *	Sq. Yd.	2*
Joint Sealing (Patches)	Foot	660
* No FD patches anticipated, nominal quantity included		

NOTE:
 AREAS OF DECK REPAIRS SHOWN ARE ESTIMATED. THE ENGINEER SHALL SHOW ACTUAL LOCATIONS OF DECK REPAIRS ON AS-BUILT PLANS.
 ALL PATCHES SHALL BE SEALED AROUND THEIR PERIMETER.

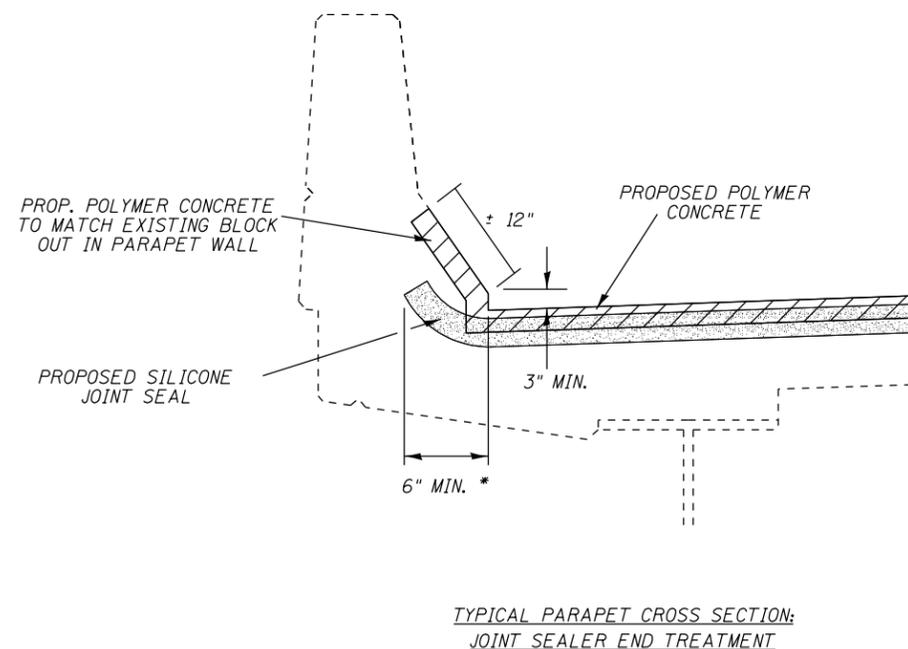
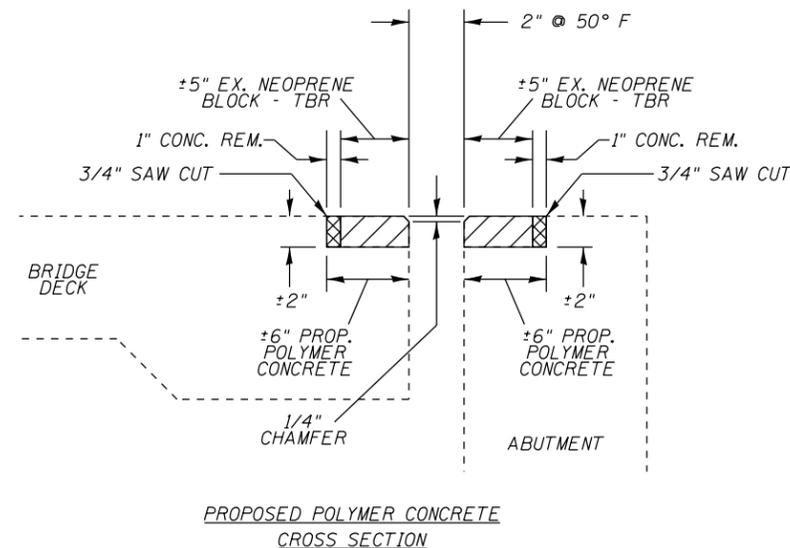
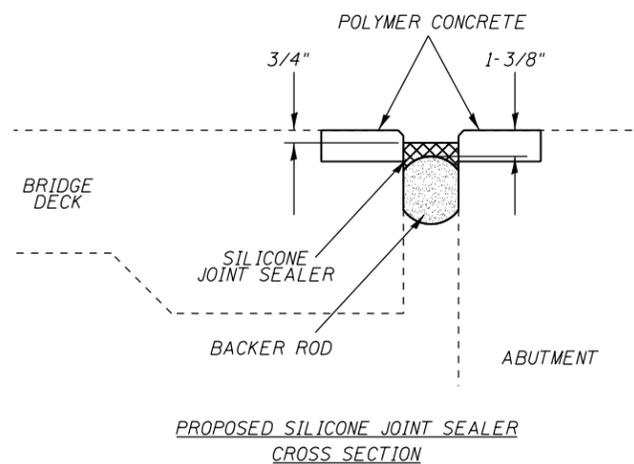
MODEL: Default
 FILE NAME: \\CENTRALDB\OPERATIONS\Bridges\Bids\Plans_CAD\72M12_0010073_deck_patching\plan\sheet.dgn

USER NAME = dudleybm	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -
PLOT DATE = 5/6/2020	DATE -	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

PATCHING PLAN SN 001-0073			
SCALE:	SHEET 2	OF 4 SHEETS	STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1597	(13) BDR, BJR	ADAMS	8	6
ILLINOIS FED. AID PROJECT			CONTRACT NO. 72M12	



NOTES:

- 1/4" CHAMFER MAY BE ACHIEVED BY GRINDING AFTER POLYMER CONCRETE HAS CURED.
- REMOVAL OF EXISTING NEOPRENE EXPANSION JOINTS SHALL BE INCLUDED IN THE COST OF CONCRETE REMOVAL.
- ANY STEEL ANCHORING STUDS ENCOUNTERED IN THE NEOPRENE JOINT REMOVAL AREA SHALL BE CUT OFF FLUSH WITH THE EXISTING CONCRETE. COST TO BE INCLUDED IN THE BID PRICE FOR CONCRETE REMOVAL.
- JOINT WIDTHS SPECIFIED IN PLANS ARE AT 50° F. THE CONTRACTOR SHALL INSTALL BACKER ROD HAVING A DIAMETER 25% GREATER THAN THE JOINT OPENING AT THE TIME OF INSTALLATION.

BILL OF MATERIAL (2 JOINTS)

ITEM	UNIT	QUANTITY
Concrete Removal	Cu. Yd.	0.1
Polymer Concrete	Cu. Ft.	16
Silicone Joint Sealer, 2"	Foot	96

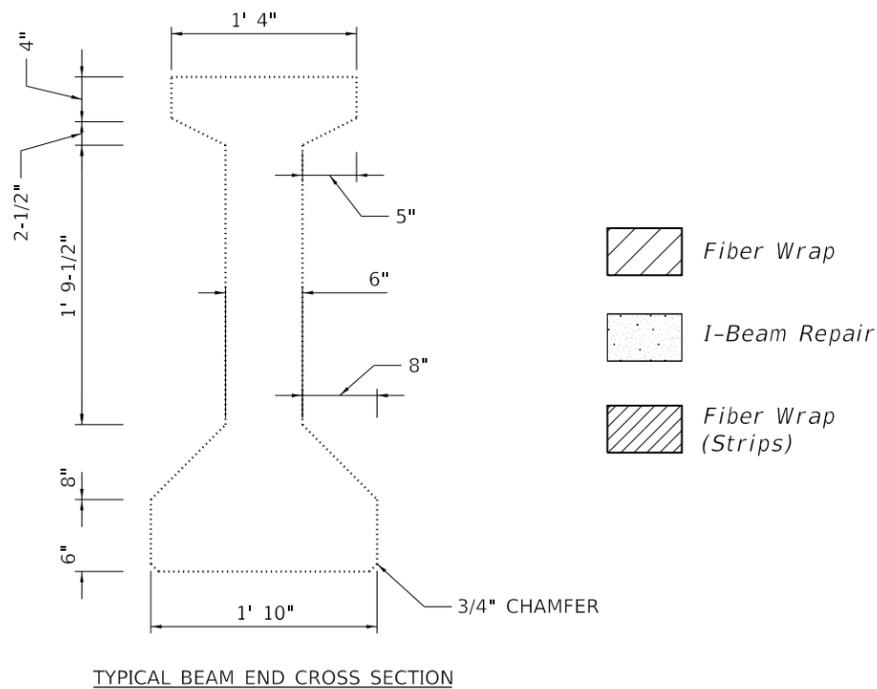
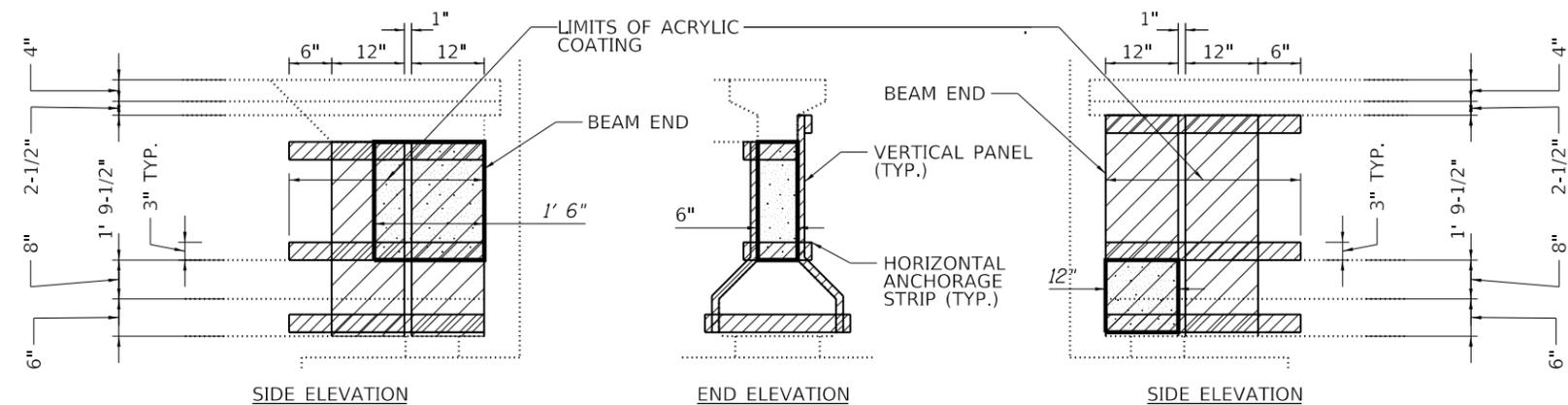
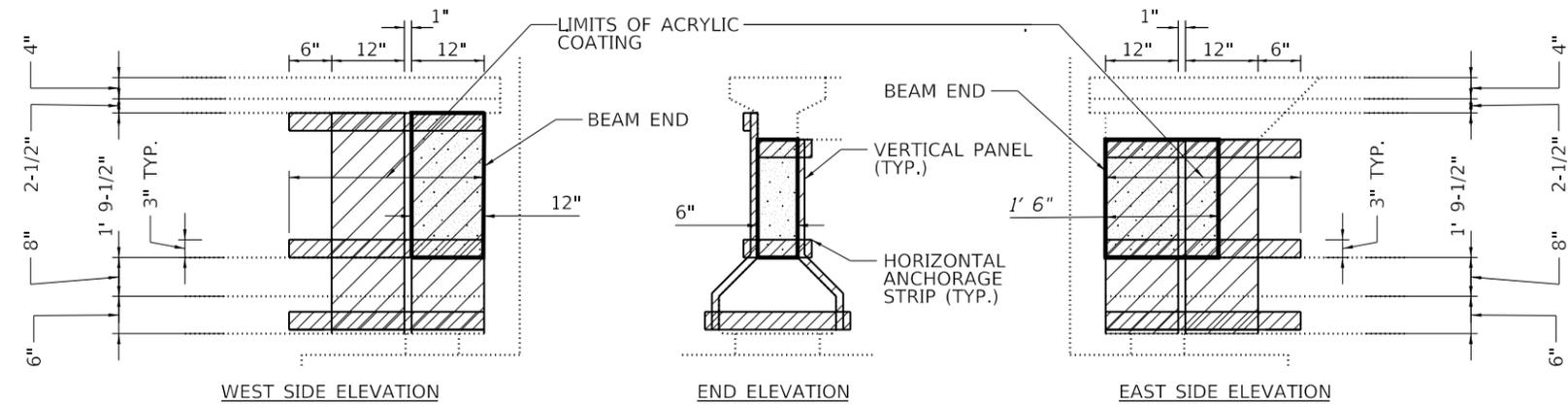
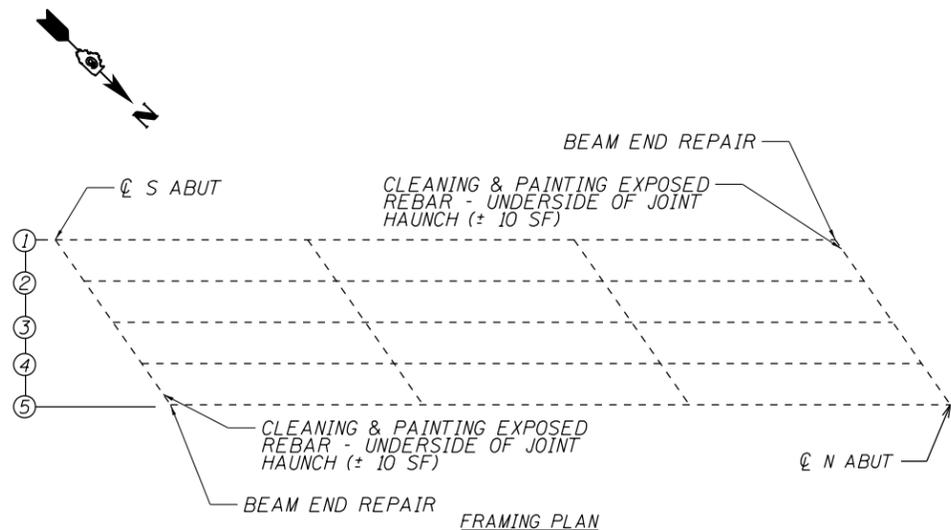
MODEL: Default
 FILE NAME: C:\CONTRACTS\OPERATIONS\Bridges\Bids\plans_CAD\72M12 - 0010073_deck_patching\plansechec.dgn

USER NAME = dudleybm	DESIGNED -	REVISED -
PLOT SCALE = 100.0000' / in.	DRAWN -	REVISED -
PLOT DATE = 5/6/2020	CHECKED -	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

JOINT REPAIR DETAILS
SN 001-0073
 SCALE: SHEET 3 OF 4 SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1597	(13) BDR, BJR	ADAMS	8	7
CONTRACT NO. 72M12				
ILLINOIS FED. AID PROJECT				



BEAM 5 SOUTH - REPAIR DETAIL

BEAM 1 NORTH - REPAIR DETAIL

TYPICAL APPLICATION RATES *			
REPAIR LOCATION	FIBER WRAP (SF)	ACRYLIC COATING (SY)	I-BEAM REPAIR (SF)
5 S	18.9	2.3	5.4
1 N	18.9	2.3	4.9

*ACTUAL PAY QUANTITIES WILL BE MEASURED AND PAID PER SPECIAL PROVISIONS)

BEAM END REPAIR BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Fiber Wrap	Sq. Ft.	37.8
Acrylic Coating	Sq. Yd.	4.6
Precast Prestressed Concrete I-Beam Repair	Sq. Ft.	10.3
Cleaning and Painting Exposed Rebar	Sq. Ft.	10

Notes:

- Acrylic coating shall be placed over fiber wrap repairs. Two coats shall be applied.
- See Special Provisions for "Fiber Wrap for PCC I-Beam Repairs."
- See Special Provisions for "Precast Prestressed Concrete I-Beam Repairs."
- Vertical panels shall be 12" wide. Vertical panels shall extend beyond the repair zone by a minimum of 3". Vertical panels located above the bearing location shall be placed in two pieces. Vertical panels outside the bearing location shall wrap under the bottom of the beam in a continuous strip up both sides of the beam.
- Horizontal anchorage strips shall be 3" wide and extend a minimum of 6" beyond the vertical panels. The horizontal strips shall be placed on top of the vertical panels.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BEAM END REPAIR DETAILS
SN 001-0073

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1597	(13) BDR, BJR	ADAMS	8	8
CONTRACT NO. 72M12				
ILLINOIS FED. AID PROJECT				

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

MODEL: Default
FILE NAME: \\CENTRALDB\OPERATIONS\Bridges\Bridges\CAD\72M12_0010073_dect_pactching\plan\sheet.dgn