

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FAP RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
331	D9 CM PAVT JOINT REPAIR 2020-1	WILLIAMSON	7	1
CONTRACT NO. 78766				

FOR INDEX OF SHEETS, SEE SHEET NO. 3

FOR SUMMARY OF QUANTITIES, SEE SHEET NO. 4

TRAFFIC DATA**LOCATION 1**

IL 13 BETWEEN GREENBRIAR ROAD
AND DIVISION STREET ADT (2019) 25,200 (7% TRUCKS)

LOCATION 2

IL 13 BETWEEN BRIGGS ROAD
AND IL 148 ADT (2019) 23,100 (3% TRUCKS)

TOWNSHIPS

CARTERVILLE

WEST MARION

POSTED SPEED : 55 MPH

J.U.L.I.E.
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION
1-800-892-8123
OR 811

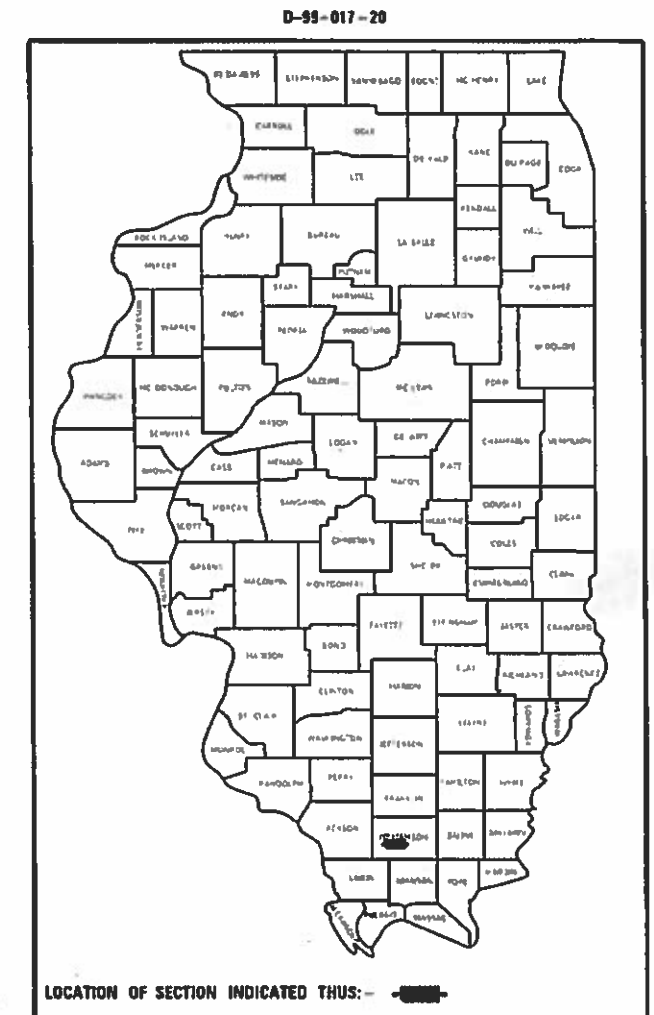
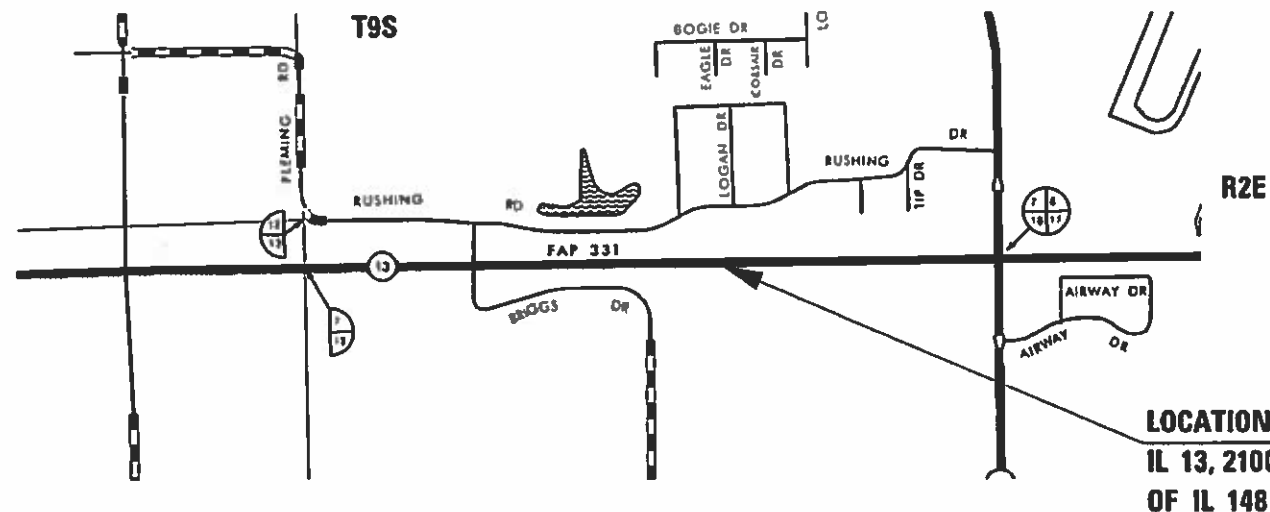
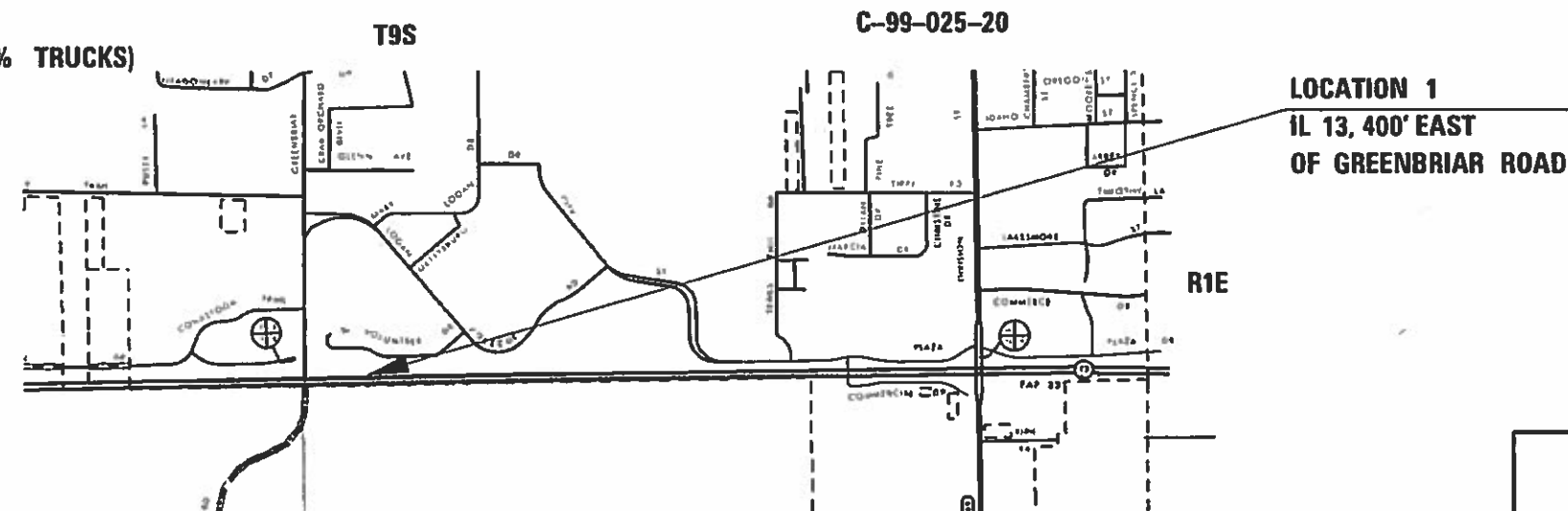
PROJECT ENGINEER SUSAN POE
PROJECT DESIGNER SUSAN POE

CONTRACT NO. 78766

PROPOSED HIGHWAY PLANS

FAP ROUTE 331 (IL 13)
SECTION D9 CM PAVT JOINT REPAIR 2020-1

PAVEMENT PATCHING WILLIAMSON COUNTY



STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED 12-11-2019
[Signature]
REGION FIVE ENGINEER

[Signature]
ENGINEER OF DESIGN AND ENVIRONMENT

[Signature]
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

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OF THE STATE OF ILLINOIS

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FILE NAME: C:\Users\jdoe\Documents\DOT Office\JDOE\144 - 89\Project\178766\CA\DOT\JDOE\178766-Street.dgn

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		DRAWN	-	REVISED	-
PLOT SCALE	= 10.0000' / 1"	CHECKED	-	REVISED	-
PLOT DATE	= 12/4/2019	DATE	-	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SIGNATURE SHEET

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
331	D9 CM PAVT JOINT REPAIR 2020-1	JACKSON	7	2
CONTRACT NO. 78766				
ILLINOIS FED. AID PROJECT				

Prepared By: Charles Stein
DISTRICT STUDIES & PLANS ENGINEER

Examined By: Nancy Stei
DISTRICT LAND ACQUISITION ENGINEER

Examined By: Conni Nelson
DISTRICT PROGRAM DEVELOPMENT ENGINEER

Examined By: Karl
DISTRICT OPERATIONS ENGINEER

Examined By: [Signature]
DISTRICT PROJECT IMPLEMENTATION ENGINEER

Examined By: Dan
DISTRICT CONSTRUCTION ENGINEER

Examined By: [Signature]
DISTRICT MATERIALS ENGINEER

INDEX OF SHEETS

SHEET NO	DESCRIPTION
1	COVER SHEET
2	SIGNATURE SHEET
3	INDEX OF SHEETS, GENERAL NOTES, STANDARDS
4	SUMMARY OF QUANTITIES
5	PROPOSED PATCHING
6	STANDARD 2224-B 24 FT CRC PAVEMENT -1965
7	STANDARD 2225-5 REINFORCEMENT FOR CRC PAVEMENT - 1965

GENERAL NOTES

QUANTITIES SHOWN IN THE PLANS FOR PATCHING ARE ESTIMATES. THE ACTUAL AMOUNT OF PATCHING REQUIRED WILL BE DETERMINED BY THE ENGINEER.

IF BASE REPAIR IS NEEDED FOR A PROPOSED PATCH, THE WORK SHALL BE PAID FOR IN ACCORDANCE WITH ARTICLE 109.04 OF THE STANDARD SPECIFICATIONS.

COMMITMENTS: NONE

HIGHWAY STANDARDS

000001-07	STANDARD SYMBOLS AND ABBREVIATIONS & PATTERNS
001001-02	AREAS OF REINFORCEMENT BARS
001006	DECIMAL OF AN INCH AND OF A FOOT
421101-10	24' CRC PAVEMENT (WITH WIDE FLANGE BEAM TERMINAL JOINT)
421201-07	24' CRC PAVEMENT (WITH LUG SYSTEM)
442001-04	CLASS A PATCHES
442101-09	CLASS B PATCHES
701101-05	OFF-ROAD OPERATIONS, MULTILANE, 15' TO 24" FROM PAVEMENT EDGE OFF
701106-02	-ROAD OPERATIONS, MULTILANE, MORE THAN 15' AWAY
701422-10	LANE CLOSURE, MULTILANE, FOR SPEEDS \geq 45 MPH TO 55 MPH
701421-08	LANE CLOSURE, MULTILANE, DAY OPERATIONS ONLY, FOR SPEEDS \geq 45 MPH TO 55 MPH
701901-08	TRAFFIC CONTROL DEVICES

REV. - MS

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	USER NAME = poest	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	INDEX OF SHEETS GENERAL NOTES, HIGHWAY STANDARDS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN -	REVISED -			331	09 CM PAVT JOINT REPAIR 2020-1	WILLIAMSON	7	3
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	PLOT DATE = 12/11/2019	DATE -	REVISED -			SCALE:	SHEET OF SHEETS	STA. TO STA.	ILLINOIS	FED. AID PROJECT

SUMMARY OF QUANTITIES

CODE NUMBER	ITEM DESCRIPTION	UNIT	TOTAL QUANTITY	ROUTE:	FAP 103 (IL 13)	
				COUNTY:	WILLIAMSON	
				FUNDING:	100% STATE	
				LOCATION:	RURAL	RURAL
				LOCATION:	LOCATION 1	LOCATION 2
					ROADWAY	ROADWAY
					0006	0006
44200610	CLASS A PATCHES, TYPE II, 13 INCH	SQ YD	22			22
44201007	CLASS B PATCHES, TYPE II, 13 INCH	SQ YD	44		22	22
44201299	DOWEL BARS 1 1/2"	EACH	80		40	40
44213000	PATCHING REINFORCEMENT	SQ YD	22			22
44213200	SAW CUTS	FOOT	200		104	96
67100100	MOBILIZATION	L SUM	1.0		0.3	0.7
70100320	TRAFFIC CONTROL AND PROTECTION, STANDARD 701422	L SUM	1.0		0.3	0.7
70107025	CHANGEABLE MESSAGE SIGN	CAL DA	40		18	22
70200100	NIGHTTIME WORK ZONE LIGHTING	L SUM	1.0		0.3	0.7

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PROJECT: 78766
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IL 13 WB OUTSIDE LANE
CLASS B PATCHES, 13", 12'X8', 11 SQ YD
SAW CUTS, 52 FT
DOWELL BARS, 1 1/2", 20 EA

IL 13 WB MIDDLE LANE
CLASS B PATCHES, 13", 12'X8', 11 SQ YD
SAW CUTS, 52 FT
DOWELL BARS, 1 1/2", 20 EA

LOCATION ONE -
EAST OF INTERSECTION OF IL 13 AND GREENBRIAR ROAD

IL 13 WB MIDDLE LANE AND INSIDE LANE
2 - CLASS B PATCHES, 13", 12'X8' 22 SQ YD
SAW CUTS, 96 FT
DOWELL BARS 1 1/2", 40 EA

IL 13 EB MIDDLE LANE AND INSIDE LANE
2 - CLASS A PATCHES, 13", 12'X8' 22 SQ YD
SAW CUTS, 96 FT
PATCHING REINFORCEMENT, 22 SQ YD

IF THE PROPOSED PATCH FALLS WITHIN AN EXISTING
LUG, THE WORK REQUIRED TO RECONSTRUCT THE LUG
SHALL BE PAID FOR IN ACCORDANCE WITH ARTICLE 109.04
OF THE STANDARD SPECIFICATIONS.



LOCATION TWO -
WEST OF INTERSECTION OF IL 13 AND IL 148

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DATE - 12/11/2019

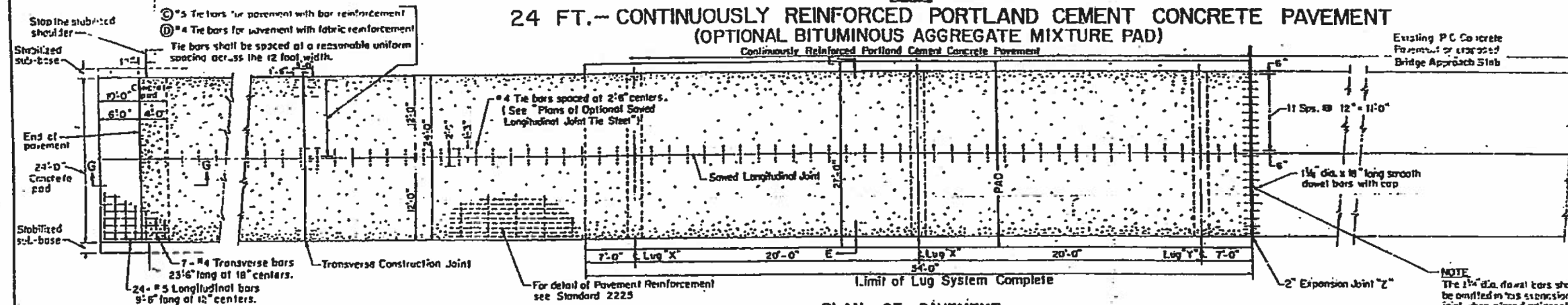
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DRAWN -	REVISED -	
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PLOT DATE = 12/11/2019	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED PATCHING			
SCALE:	SHEET	OF SHEETS	STA. TO STA.

F.A.9 RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
331	09 CM PAYMENT JOINT REPAIR 2020-1	WILLIAMSON	7	5
CONTRACT NO. 78766				
ILLINOIS FED. AID PROJECT				

STANDARD DESIGN

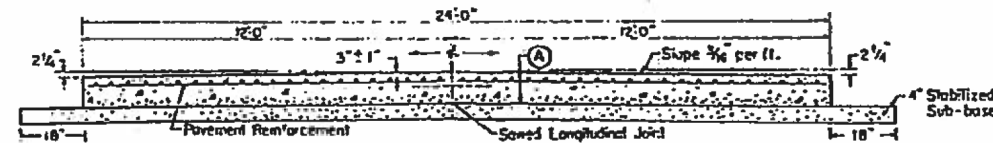
24 FT.- CONTINUOUSLY REINFORCED PORTLAND CEMENT CONCRETE PAVEMENT
(OPTIONAL BITUMINOUS AGGREGATE MIXTURE PAD)

PLAN OF PAVEMENT

NOTE

When a slip form paver not equipped with approved automatic grade controls is to be used, it shall operate on the BAM pad which shall be extended so that the overall width is 6 inches greater than the width from outside to outside of the slip form paver's tracks. Such extended width will not be measured for payment but shall be considered incidental to the contract.

If the slip form paver is equipped with approved automatic grade controls that control the four corner supports of the paver and the Contractor elects to use these controls, the BAM pad shall be 12 inches wider than the design pavement width.

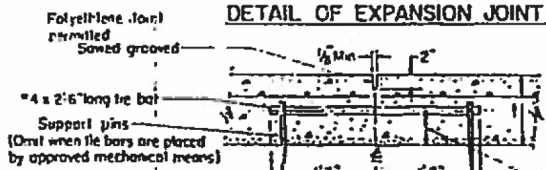


CROSS SECTION E-E

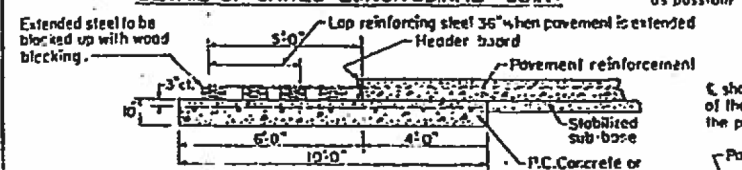
Fill with Asphalt PAF-4 if joint filler conforms to Art. 715C or 715C6 of the Standard Specifications.



DETAIL OF EXPANSION JOINT

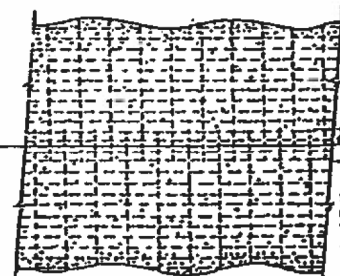


DETAIL OF SAWED LONGITUDINAL JOINT

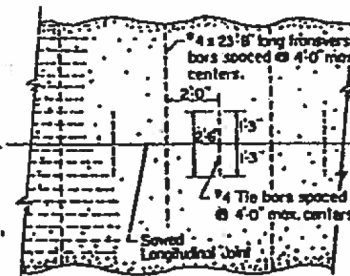


SECTION G-G

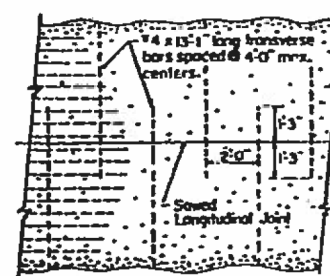
STATE OF ILLINOIS DEPARTMENT OF PUBLIC WORKS & BUILDINGS DIVISION OF HIGHWAYS			
PROJECT NO.	REVISIONS	DATE	BY
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110-10-10	6	11-01-10	110-10-10
110-10-10	7	11-01-10	110-10-10
110-10-10	8	11-01-10	110-10-10
110-10-10	9	11-01-10	110-10-10
110-10-10	10	11-01-10	110-10-10



FABRIC REINFORCEMENT

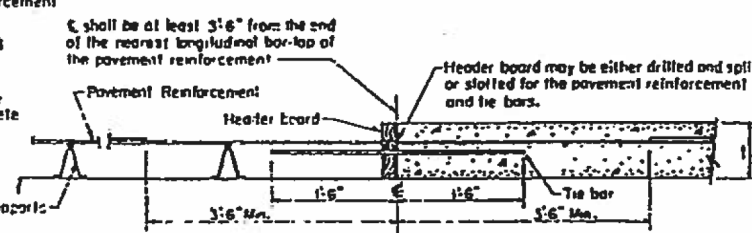


BAR REINFORCEMENT



ASSEMBLY III

PLANS OF OPTIONAL SAWED LONGITUDINAL JOINT TIE STEEL



DETAIL OF TRANSVERSE CONSTRUCTION JOINT

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STANDARD 2224-B
24 FT CRC PAVEMENT - 1965

STANDARD 2224-8

(1 of 1)

BILL OF MATERIAL FOR LUG SYSTEM (Excluding pavement concrete and pavement reinforcement)				
Bar	No.	Size	Length	Shape
a	132	#7	14'-0"	U
b	12	#5	24'-9"	C
c	132	#5	20'-0"	U
d	28	#4	11'-9"	U
Class X Concrete, Cu. Yds. 2085				
Reinforcing Bars, Lbs. 7062				
BAM Pad, Sq. Yds. 146				

Part	(A)	(B)	(C)	(D)
8"	12"	8"	12"	
9"	14"	9"	14"	

GENERAL NOTES

Sawed joints shall be sealed with hot poured material meeting the requirements of the Tentative Specifications for Concrete Joint Sealer, Hot-Poured Elastic Type, ASTM Designation: D190-52 T, or sealed with a cold applied, ready-mixed concrete joint sealing compound meeting the requirements of Article 715.03.

Lug end anchorages shall be constructed at the locations shown except that when the distance between expansion joints is less than 1500' the anchorage shall be as shown on the detailed construction plans.

The 54 feet shown above of Bituminous Aggregate Mixture Pad, between and adjacent to the lugs will be considered incidental to the Lug System.

Expansion joint shall be considered incidental to the cost of Continuously Reinforced Concrete Pavement.

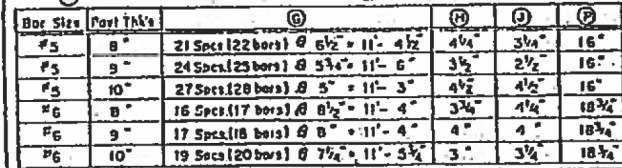
Details shown in Section G-G shall apply only at the end of the construction section. The reinforced concrete pad, header board, wood blocking, and the S.I. of extended pavement reinforcement will be considered incidental to the cost of the CRC Pavement.

USER NAME = poel	DESIGNED -	REVISED -
PLOT SCALE = 0.0040' / in	DRAWN -	REVISED -
PLOT DATE = 12/11/2019	CHECKED -	REVISED -
	DATE -	REVISED -

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
331	09 CM PAVEMENT JOINT REPAIR 2020-1	WILLIAMSON	7	6
CONTRACT NO. 78766				
ILLINOIS FED. AID PROJECT				

BAR REINFORCEMENT



LAP DETAIL I

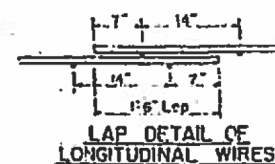
Note:
For optional transverse bar construction see "Plans of Optional Longitudinal Sward
Joint Tie Steel" shown on the pavement detail drawings. (Std. 2224, 2233, 2261 or 2321)



LAP DETAIL II



FABRIC REINFORCEMENT



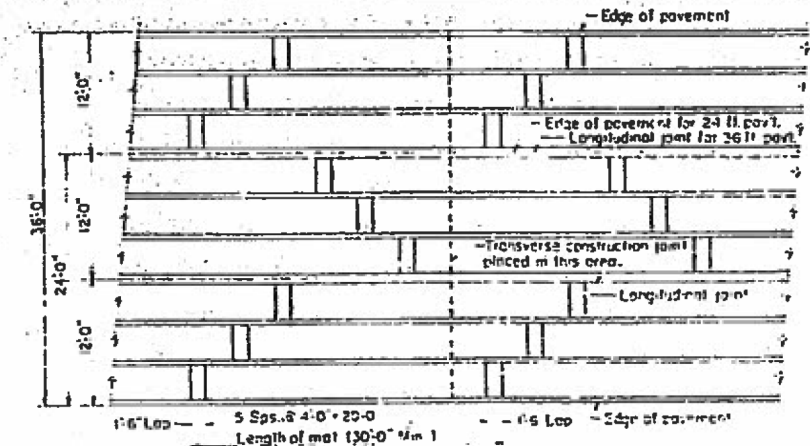
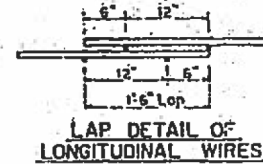
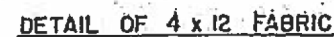
NOTE

NOTE: Fabric reinforcement may be placed in position with the transverse wires on top or bottom of the longitudinal wires.

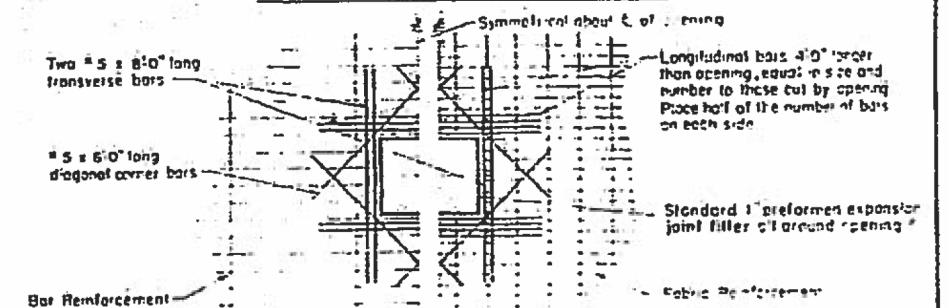
When approved by the Engineer the Contractor may use fabric widths other than those shown.

For optional transverse deformed wire construction see
"Plans of Optional Longitudinal Sanded Joint Tie Steel"
shown on the pavement detail drawings.
(Std 2224, 2233, 2251, or 2321)

Part No's	(R)	(L)
8"	D-21 wire size	D-19 wire size
9"	D-23 wire size	D-22 wire size
10"	D-25 wire size	D-24 wire size



TYPICAL MAT PLACEMENT PATTERN



TYPICAL DETAIL OF ADDED REINFORCEMENT AT
OPENINGS FOR MANHOLES, ETC. UP TO 4 FT. WIDE

STANDARD 2225-5