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FULL DEPTH CONCRETE PAVEMENT REMOVAL

REPAIR LENGTH

6' MIN. **SECTION B - B**

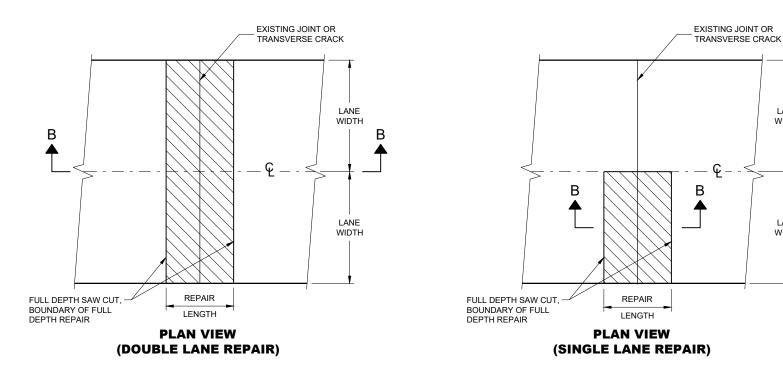
CONCRETE REMOVAL

3' MIN.

3' MIN.

FULL DEPTH

SAW CUT



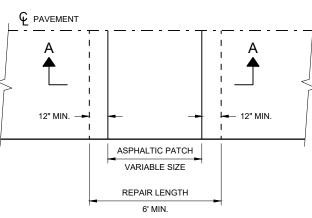


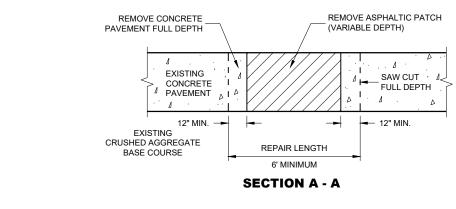
SAW CUT, DRILL, AND LIFT OUT EXISTING CONCRETE PAVEMENT WITHIN THE BOUNDARIES OF CONCRETE REPAIR AREAS. THE CONTRACTOR MAY MAKE ADDITIONAL SAW CUTS INSIDE THE REPAIR LIMITS TO REDUCE WEIGHT AND SIZE OF CONCRETE PIECES.

TRANSVERSE JOINT OR CRACK.

IS NON-DOWELED AND THE PAVEMENT IS TO BE OVERLAID AFTER REPAIRING.

1 DOWEL BARS MAY NOT BE PRESENT.





FULL DEPTH

SAW CUT

I ANF WIDTH

LANE WIDTH

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CONCRETE PAVEMENT REPAIR AND REPLACEMENT

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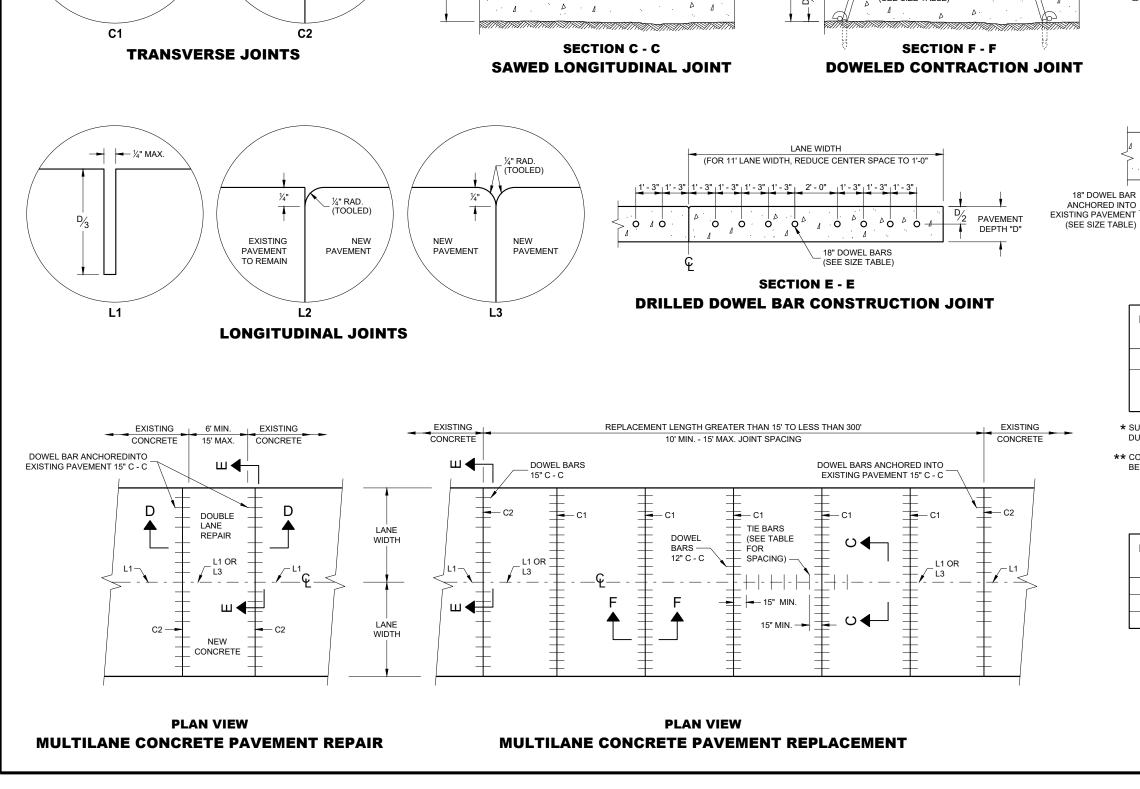
HMA PATCH REMOVAL

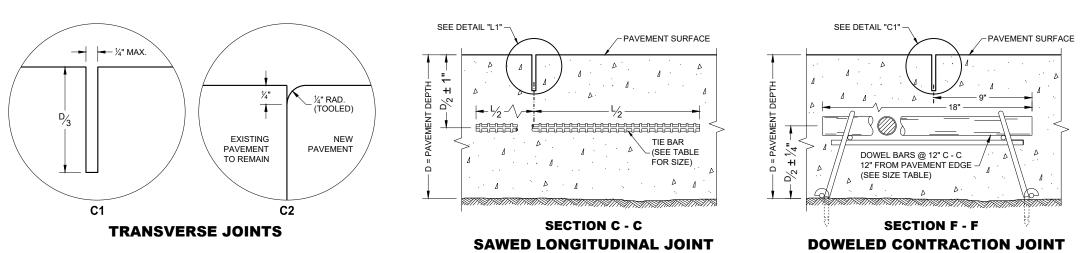
PLAN VIEW

THE LENGTH OF THE REPAIRS MAY VARY FROM THE DIMENSIONS SHOWN IF THE EXISTING CONCRETE PAVEMENT

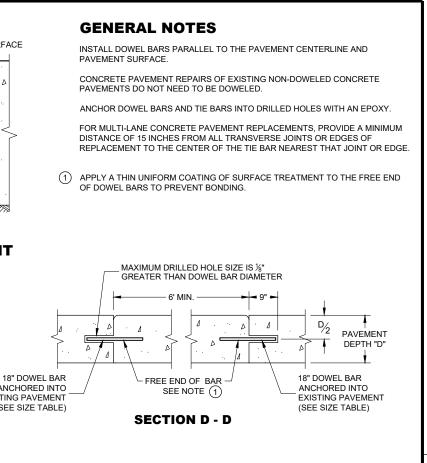
PROVIDE A 6 FOOT MINIMUM DISTANCE FROM BOUNDARIES OF CONCRETE REPAIR AREA TO ADJACENT







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TIE BAR TABLE

PAVEMENT DEPTH (D)	TIE BAR SIZE	TIE BAR LENGTH (L)	MAX. TIE BAR SPACING
< 10 ½"	NO. 4	30"	36"
≥ 10 ½"	NO. 5	36"	36"
	NO. 4 *	30"	24" **

* SUBSTITUTE BENT BARS AT LONGITUDINAL JOINTS WHEN EQUIPMENT LIMITATIONS DURING CONSTRUCTION WARRANT (e.g. AUXILIARY LANES OR TURN LANES)

****** CONFORM TO 15" MINIMUM SPACING FROM TRANSVERSE JOINTS; SPACING BETWEEN TIE BARS WILL BE 30" AT TRANSVERSE JOINTS.

PAVEMENT DEPTH, DOWEL BAR SIZE AND JOINT SPACING TABLE

PAVEMENT DEPTH (D)	DOWEL BAR DIAMETER	DRILLED DOWEL BAR DIAMETER	CONTRACTION JOINT SPACING
6", 6 ½"	NONE	NONE	12'
7", 7 ½"	1"	1"	14'
8" & ABOVE	1 ¼"	1 ¼"	15'

CONCRETE PAVEMENT REPAIR AND REPLACEMENT

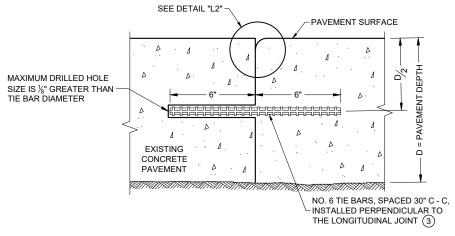
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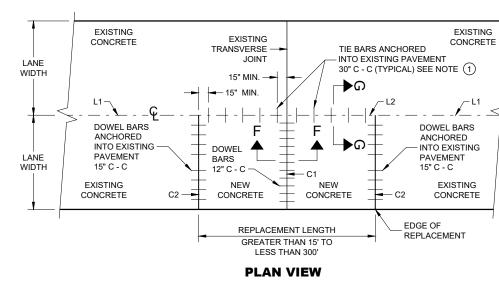
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GENERAL NOTES

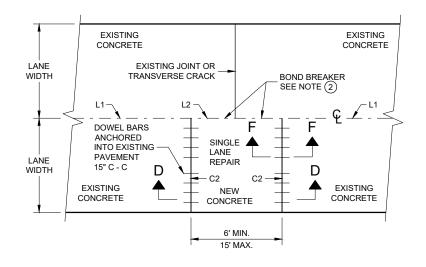
- AS TO PROVIDE A TIGHT DRIVEN FIT.



SECTION G - G TIE BARS ANCHORED INTO EXISTING PAVEMENT







PLAN VIEW SINGLE LANE CONCRETE PAVEMENT REPAIR



(1) WITH THE APPROVAL OF THE ENGINEER, FOR SINGLE LANE PAVEMENT REPLACEMENTS LESS THAN 30 FEET IN LENGTH, THE CONTRACTOR MAY INSTALL DRILLED TIE BARS ON 6:1 SKEW HORIZONTALLY, DIRECTION OF SKEW ALTERNATING WITH EACH SUCCESSIVE BAR. DRIVE SKEWED TIE BARS TO A DEPTH OF 6 INCHES IN A HOLE OF SUCH A DIAMETER

(2) USE AN ENGINEER APPROVED BOND BREAKER (E.G. RELEASE AGENT, CURING COMPOUND) FOR SINGLE LANE REPAIRS UP TO 15 FEET IN LENGTH.

(3) ANCHOR TIE BARS INTO DRILLED HOLES WITH AN EPOXY.

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CONCRETE REPAIR AND REPLACEMENT

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED November 2022 DATE

/S/ Peter Kemp P.E. PAVEMENT SUPERVISOR

Concrete Pavement Repair and Replacement

References:

FDM 14-25-10

Bid items associated with this drawing:

ITEM NUMBER DESCRIPTI	<u>ON</u>	<u>UNIT</u>
204.0100 Removing C	oncrete Pavement	SY
415.0060 - 0199 Concrete Pa	vement (inch)	SY
415.1080 - 1199 Concrete Pa	vement HES (inch)	SY
416.0610 Drilled Tie E	ars	EACH
416.0620 Drilled Dowe	el Bars	EACH
416.1710 Concrete Pa	vement Repair	SY
416.1715 Concrete Pa	vement Repair SHES	SY
416.1720 Concrete Pa	vement Replacement	SY
416.1725 Concrete Pa	vement Replacement SHES	SY
690.0250 Sawing Con	crete	LF

Standardized Special Provisions associated with this drawing:

STSP NUMBER	<u>TITLE</u>
NONE	

Other SDDs associated with this drawing:

SDD 13C11	Rural Doweled Concrete Pavement
SDD 13C13	Urban Doweled Concrete Pavement

Design Notes:

Always include SDD 13C9 sheets "a", "b" and "c" together in plan sets.

If Concrete Pavement Repair or Concrete Pavement Repair SHES are part of a project, designers should also consider including Concrete Pavement Replacement or Concrete Pavement Replacement SHES and Concrete Pavement (inch) or Concrete Pavement HES (inch) bid items since unforeseen pavement repairs may extend beyond 15 feet in length.

Contact Person:

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