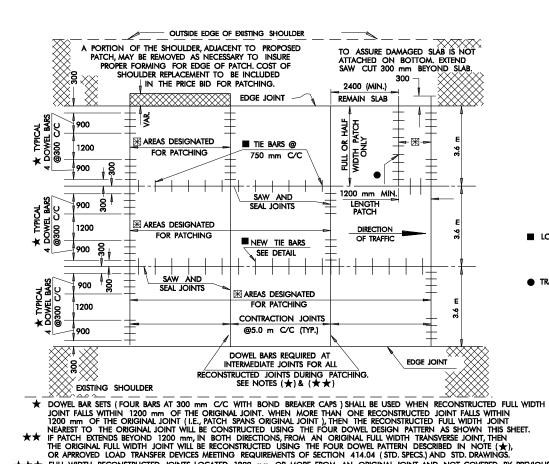
REVISIONS RE-ISSUE W/METRIC 1999 SPECS. 7/99



CONCRETE PATCH EXISTING SLAB H.E.S. CONCRETE SAW AND SEAL JOINT SEE NOTES (♠)(■) SEE BELOW FOR DETAILS TIE BARS WILL BE EPOXIED INTO DRILLED HOLES AT MID-SLAB. EACH DRILLED HOLE AND TIE BAR SHALL BE PLACED PARALLEL TO THE DRIVING SURFACE WITH SUFFICIENT EPOXY TO COMPLETELY FILL THE VOID BETWEEN THE

DETAIL OF TIE BAR JOINT

TIE BAR AND THE HOLE.

STEP 5

JOINT REHABILITATION

(1) FINAL JOINT CUT SHALL BEGIN AT

(2) INSTALLATION OF BOND BREAKER

INITIAL JOINT

THE LOW EDGE OF THE DRIVING

LANES AND MOVE TOWARD THE

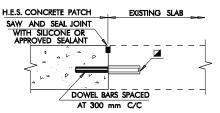
AND SILICONE JOINT SEALANT SHALL BE FROM THE END OF THE

INITIAL JOINT TO THE LOW EDGE OF THE DRIVING LANES.

AND APPLICABLE SPECIAL PROVISIONS.

(3) SEE SEQUENCE OF OPERATIONS FOR JOINT REHABILITATION THIS SHEET

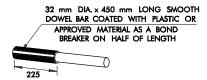
- LONGITUDINAL JOINT TIE BARS NO. 16M DEFORMED REINFORCING STEEL BARS, 360 mm LONG, SHALL BE EPOXIED INTO 19 mm DIA. (MAX.) DRILLED HOLES AT 750 mm C/C TIED LONGITUDINALLY. JOINT SHALL BE SAWED AND SEALED
- TRANSVERSE JOINT TIE BARS NO. 32M DEFORMED
 REINFORCING STEEL BAR, 450 mm LONG, SHALL BE EPOXIED
 INTO 35 mm DIAMETER (MAX.) DRILLED HOLES AT 450 mm C/C FULL WIDTH TRANSVERSE TIED IOINTS



DETAIL OF TRANSVERSE JOINT (DOWEL BAR WITH CAP)

OWEL BARS SHALL BE EPOXIED (NON-CAPPED END) INTO 35 mm DIA. (MAX.) BY 220 mm DEEP DRILLED HOLES, PLACED AT MID-SLAB. DRILLED HOLES AND DOWEL BARS SHALL BE PLACED PARALLEL TO THE DRIVING SURFACE. SUFFICIENT EPOXY SHALL BE USED TO COMPLETELY FILE THE VOID BETWEEN THE DOWEL BAR AND THE HOLE.

DOWEL BAR SHALL BE COVERED WITH BOND BREAKER CAP OR APPROVED PLASTIC-LIKE MATERIAL OVER ONE HALF THE LENGTH TO INSURE BOND BETWEEN DOWEL BAR AND CONCRETE PATCH IS BROKEN. PAINT IS NOT ACCEPTABLE.



DETAIL OF DOWEL BAR WITH CAP 38 mm DIAMETER DOWELS FOR 280 mm PAVEMENTS OR THICKER.

BASE REPAIR AND PREPARATION

IN AREAS WHERE PATCHING IS REQUIRED, THE REMOVAL OF THE DAMAGED PAVEMENT SHALL BE PERFORMED IN A MANNER THAT WOULD MINIMIZE FURTHER DAMAGE TO THE UNDERLYING SUBBASE(S), SUBGRADE OR ADJACENT PAYEMENT(S). NO COMPENSATION WILL BE MADE TO CONTRACTOR FOR REPAIRING DAMAGE SUSTAINED DURING THE REMOVAL PROCESS.

COST OF ANY INCIDENTAL BASE REPAIR, LEVELLING OR BACKFILLING, UP TO 50 mm, WILL BE INCLUDED IN H.E.S. CONCRETE (FULL DEPTH PATCHING) PAY ITEM. INCIDENTAL REPAIR, LEVELING AND BACKFILLING MATERIAL SHALL CONSIST OF SAME MATERIAL ENCOUNTERED, CRUSHED LIMESTONE OR BY THICKENING H.E.S. FULL DEPTH PATCH.

BASE REPAIR, LEVELING AND RELATED BACKFILLING OF SUBBASE(S) OR SUBGRADE IN EXCESS OF 50 mm SHALL BE PAID FOR AS UNCLASSIFIED EXCAVATION WITH QUANTITIES COMPUTED FROM BOTTOM OF SLAB DOWNWARD TO LIMITS OF REMOVAL.

SUGGESTED SEQUENCE OF OPERATIONS FOR JOINT REHABILITATION

- (1) SAW EXISTING LONGITUDINAL AND CONTRACTION JOINTS TO WIDTH AND DEPTH REQUIRED. SEE ROADWAY STANDARD LECS-3 FOR DETAILS.
- (2) BLOW OUT JOINT WITH COMPRESSED AIR IMMEDIATELY AFTER SAWING
- (3) SAND BLAST JOINT, BLOW CLEAN AND IMMEDIATELY PLACE BACKER ROD.
- (4) BLOW JOINT CLEAN WITH COMPRESSED AIR AND FILL CLEAN JOINT WITH SEALANT WITHIN 2 MINUTES.
- (5) ALLOW CURING TIME FOR SILICONE SEALANT.
- (6) BID ITEM FOR JOINT REHABILITATION WILL INCLUDE SAWING, CLEANING OF JOINT,

(INITIAL AND FINAL)

- BACKER ROD, SILICONE SEALANT AND ANY INCIDENTALS REQUIRED TO COMPLETE

LEFT SHOULDER 600 - 600 600 (1) CORE 50 mm DIA. (63 mm MAX.) HOLES IN AN A MANNER APPROVED BY THE ENGINEER. 600 CORED HOLES DIRECTION OF TRAFFIC 600 -RIGHT SHOULDER

FULL WIDTH RECONSTRUCTED JOINTS LOCATED 1200 mm OR MORE FROM AN ORIGINAL JOINT AND NOT COVERED BY PREVIOUS TWO NOTES SHALL BE RECONSTRUCTED USING TRANSVERSE TIE BAR JOINT. SEE NOTE (*) OVERALL PATCH LENGTH SHALL NOT EXCEED 2100 mm (5.0 m JOINTED PAVEMENT) & 5.0 m (20.0 m JOINTED PAVEMENT), UNLESS OTHERWISE SHOWN ON PLANS.

STEP 4

JOINT REHABILITATION

(INITIAL

(1) INITIAL CUT AND SUBSEQUENT SEALING SHALL BEGIN AT THE HIGH EDGE OF THE DRIVING LANES

AND MOVE TOWARD THE LOW EDGE.
(2) SEE SEQUENCE OF OPERATIONS FOR

JOINT REHABILITATION THIS SHEET
AND APPLICABLE SPECIAL PROVISIONS.

FULL DEPTH PATCHING DETAIL

STEP 1

CONCRETE PATCHING

(2) FOR REMOVAL OF FULL DEPTH PATCHES, SAWING IS TO BE FULL DEPTH. LIFT OUT DAMAGED PAVE-MENT WHENEVER PRACTICAL.

(3) THE FLOW OF TRAFFIC MAY BE RESTRICTED TO ONE LANE DUE TO

PATCHING OPERATION FOR A

STEP 2 SLAB STABILIZATION

APPLICABLE SPECIAL PROVISIONS.

STEP 3

DIAMOND GRINDING (1) AFTER SLAB STABILIZATION &

APPROPRIATE CURE TIME HAS BEEN DETERMINED, GRINDING

OPERATIONS MAY BEGIN.

(2) SEE PLANS OR APPLICABLE SPECIAL PROVISIONS.

(4) FOR ADDITIONAL INFORMATION SEE P & P SHEETS.

(2) PRESSURE GROUT SLAB IN
ACCORDANCE WITH PLANS OR

MAXIMUM DISTANCE OF ONE MILE.

(1) AREAS TO BE PATCHED WILL BE DESIGNATED BY THE ENGINEER.

DETAIL OF UNDERSEALING

50 mm DIAMETER (65 mm MAX.) CORE HOLES SEE DETAILS OF TYPICAL PAVEMENT SEAL CORED HOLES COST TO BE INCLUDED IN PRICE BID FOR HOLES REHABILITATION FOR LOCATION OF HOLES P.C. CONCRETE , P.C. CONCRETE PAVEMENT PAVEMENT VOID TO BE PRESSURE GROUTED 50 mm±7 mm - STABILIZED BASE

DETAIL OF PRESSURE GROUTING

GENERAL NOTES

- 1. ALL CONSTRUCTION AND MATERIAL REQUIREMENTS SHALL BE IN ACCORDANCE WITH THE 1999 METRIC STANDARD SPECIFICATIONS.
- 2. COST OF SAWING AND REMOVAL OF PAVEMENT FOR FULL DEPTH PATCHING TO BE INCLUDED IN THE PRICE BID FOR H.E.S. CONCRETE PATCHING UNLESS OTHERWISE SHOWN ON THE PLANS.
- 3. A PORTION OF THE SHOULDER, ADJACENT TO PROPOSED PATCH MAY BE REMOVED AS NECESSARY TO INSURE PROPER FORMING FOR EDGE OF PATCH. COST OF SHOULDER REPLACEMENT TO BE INCLUDED IN THE PRICE BID FOR H.E.S. CONCRETE PATCHING.
- 4. COST OF DOWEL BARS, TIE BARS, EPOXY AND ANY INCIDENTALS REQUIRED FOR INSTALLATION TO BE INCLUDED IN THE PRICE BID FOR H. E. S. CONCRETE PATCHING.

BASIS OF PAYMENT						
ITEM NO.	ITEM	UNIT				
202.04(A)	UNCLASSIFIED EXCAVATION	CUBIC METER				
414.06(B)	H.E.S. CONCRETE (FULL DEPTH PATCHING)	SQ. METER				
419.06	CONCRETE JOINT REHABILITATION	METER				
425.06	DIAMOND GRINDING CONCRETE PAVEMENT	SQ. METER				
426.06(A)	CORED HOLES	EACH				
426.06(B)	PORTLAND CEMENT	METRIC TON				
426.06(C)	FLY ASH	METRIC TON				

APPROVED BY ROADWAY ENGINEER

OKLAHOMA DEPT. OF TRANSPORTATION ROADWAY STANDARD (METRIC) PORTLAND CEMENT CONCRETE

	PAVEMENT	REPAIR	
	_		
	1		_

1999 SPECIFICATIONS PCPR-2 00M ALL DIMENSIONS ON THIS SHEET IN MILLIMETERS UNLESS OTHERWISE NOTED. R-118M