

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	H11-01-97M	1997	4	6

## GENERAL NOTES

### REPAIR NOTES:

- All deteriorated, damaged, cracked, spalled, honeycombed concrete or concrete over rusted reinforcing bars shall be removed as shown and repaired with magnesium phosphate concrete.
- Provide minimum 1 1/2" concrete cover over reinforcement.
- Reinforcing bars that have rusted more than 25% of their original cross sectional area shall be strengthened as shown on "Reinforcing Bar Repair Splice Detail", this sheet.
- The Engineer shall determine all areas to be repaired and the limits of repair at each area.

**INCIDENTAL ITEMS:** The following items shall be considered incidental to the various pay items or repairs and will not be paid for separately:

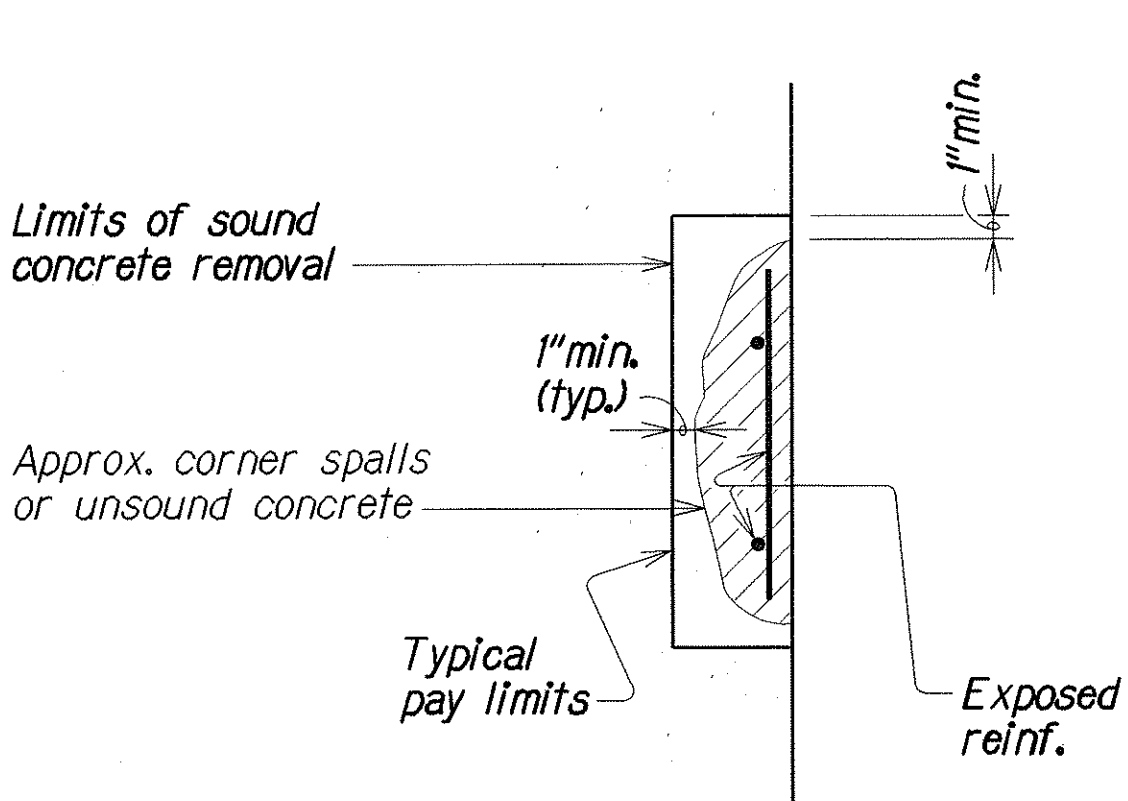
- Cleaning of all exposed, corroded reinforcing steel to sound metal.
- Reinforcing bars of repair splice for strengthening corroded bars.

### GENERAL:

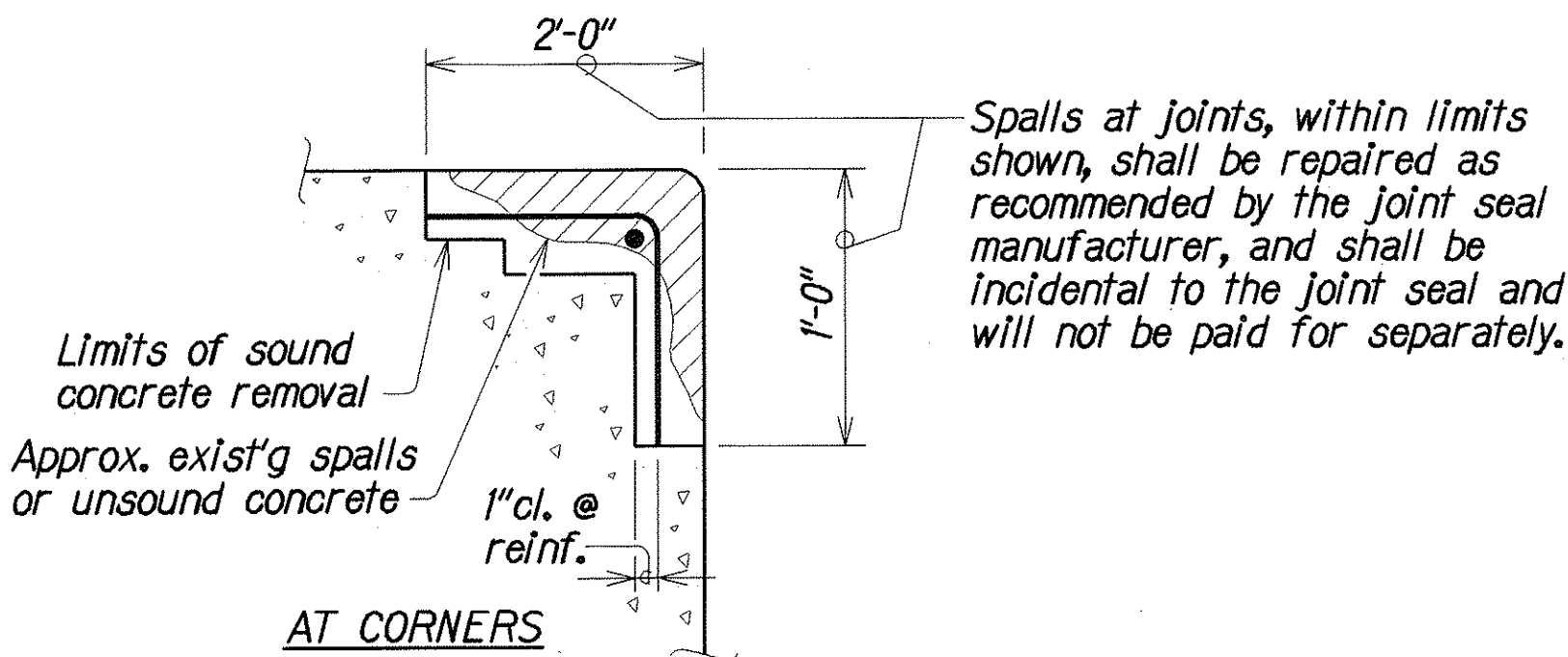
- All reinforcing steel to be ASTM A 615 Grade 40.
- All welding shall be done in accordance with the current edition of the Reinforcing Steel Welding Code AWS D1.4.
- Maintenance & control of traffic--See Special Provisions sub-section 104.04.

## ESTIMATED QUANTITIES

ITEM NO.	DESCRIPTION	UNITS	QUANTITY
677J000	Joint Seal Repair (Longitudinal and Transverse)	LS.	-

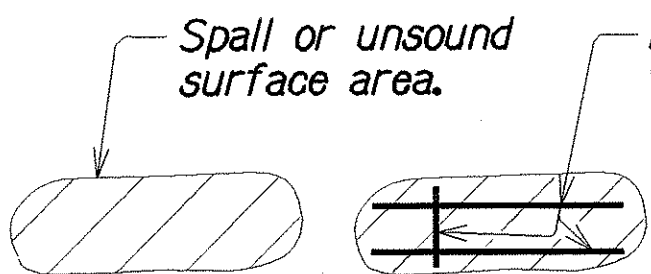


PLAN OR ELEVATION



TYPICAL SECTIONS

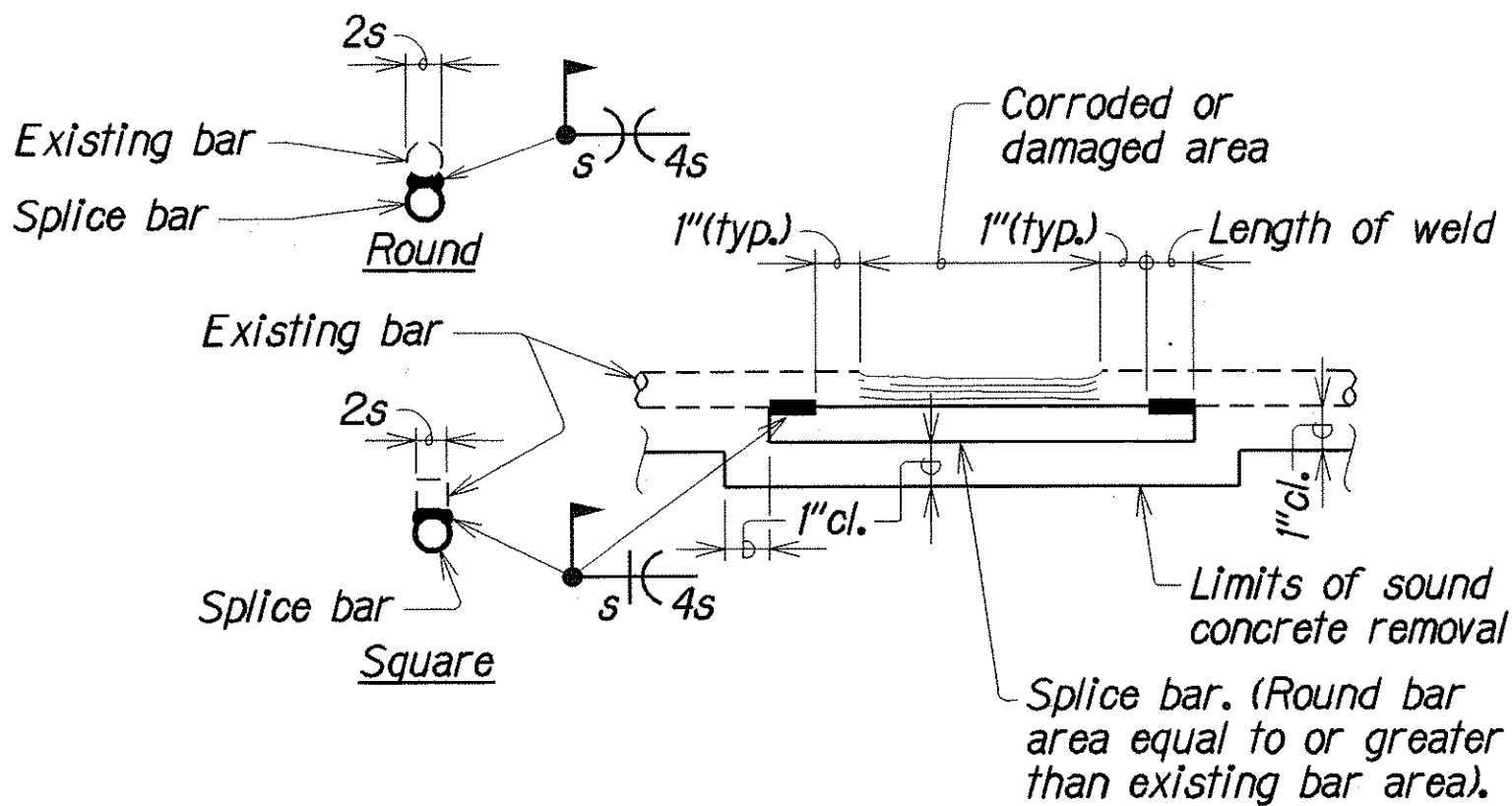
### SYMBOLS AND ABBREVIATIONS:



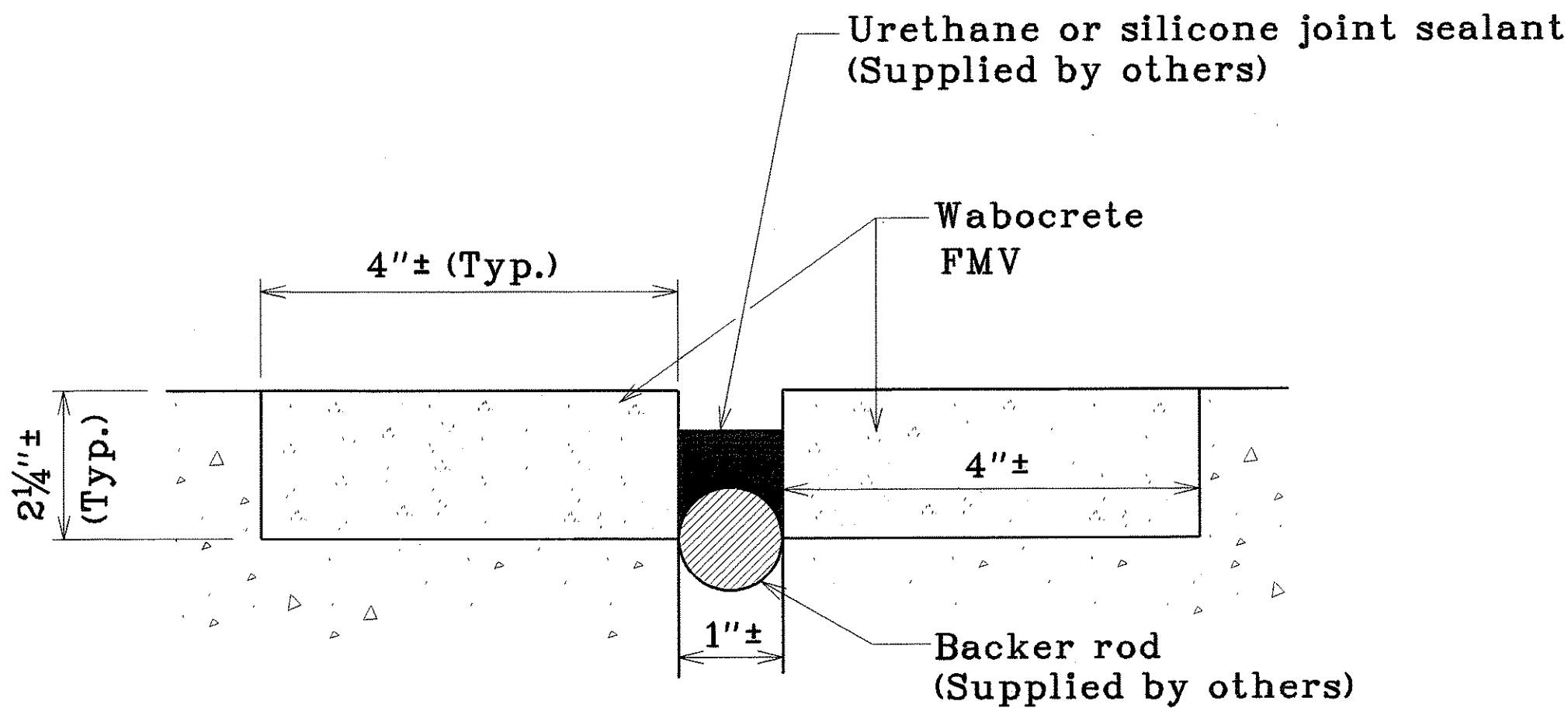
S.S.: Surface spall (Concrete)  
S.C.: Surface crack (Concrete)  
H.C.: Hairline crack  
S.F. or sq. ft.: Square feet  
L.F.: Linear feet

## TYPICAL CONCRETE REPAIRS

Not to Scale

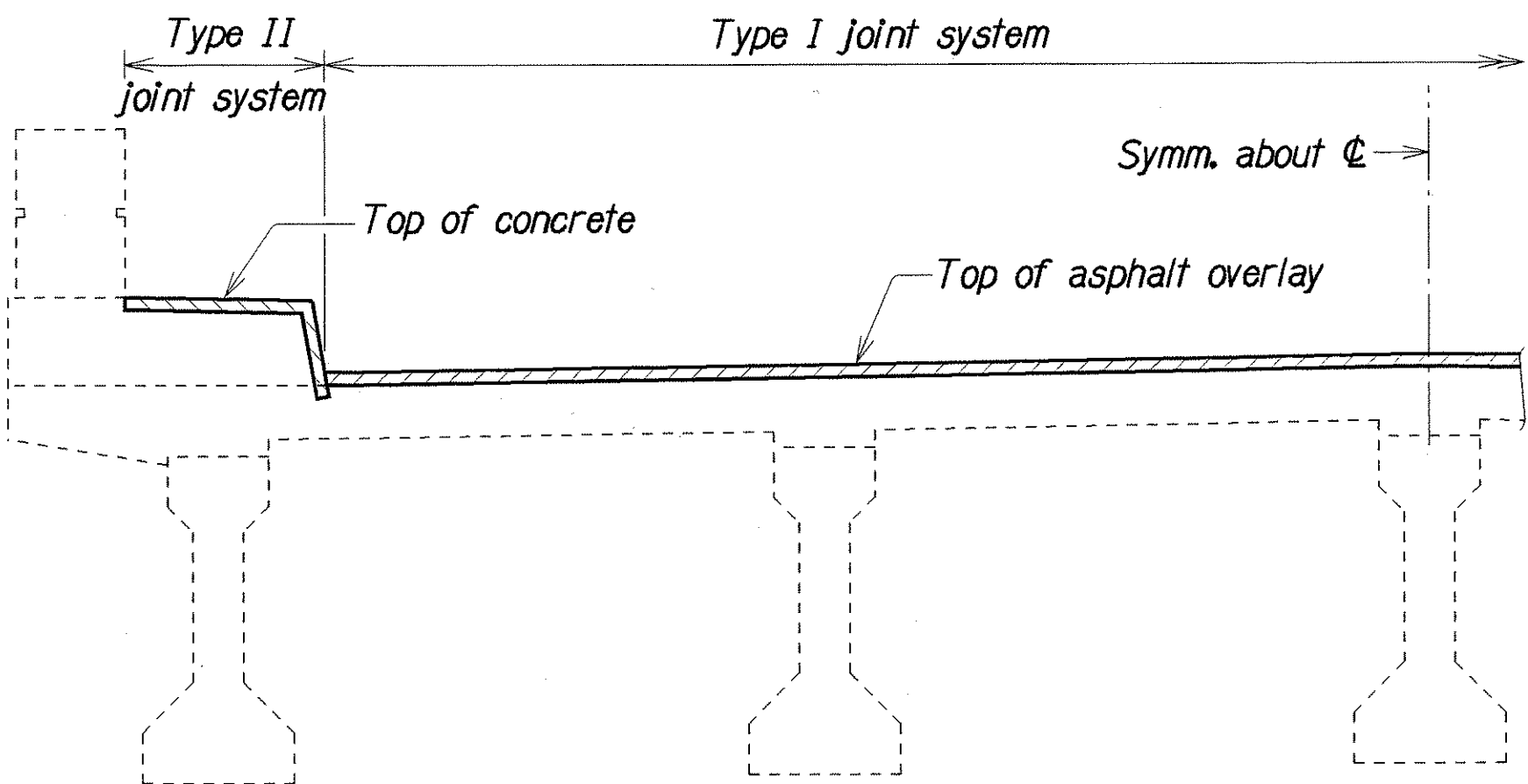


REINFORCING BAR REPAIR SPLICE DETAIL

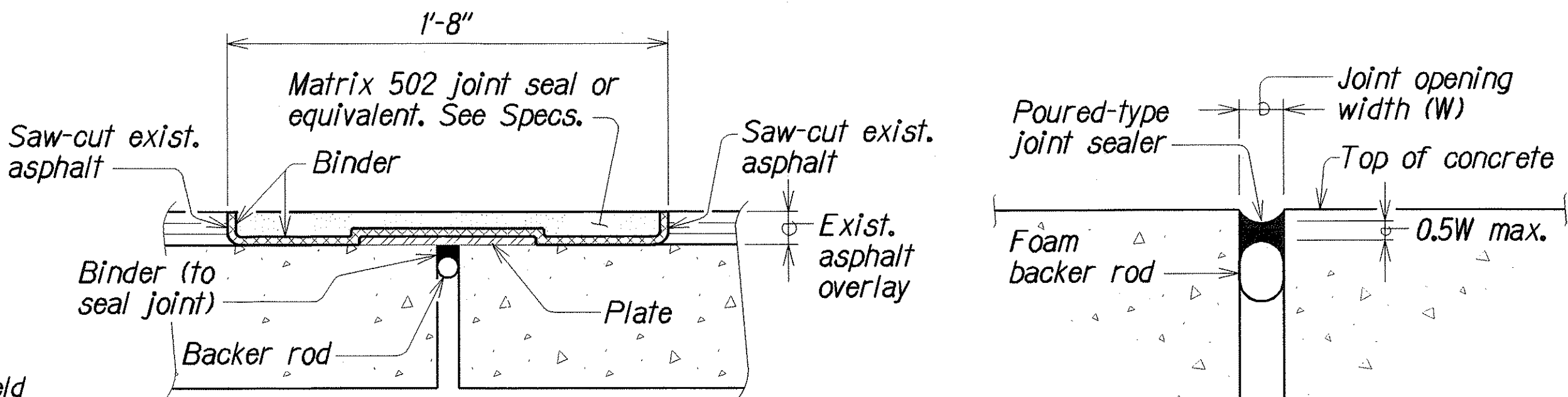


LONGITUDINAL JOINT DETAIL

Not to Scale



TYPICAL SECTION



TYPE I

TYPE II

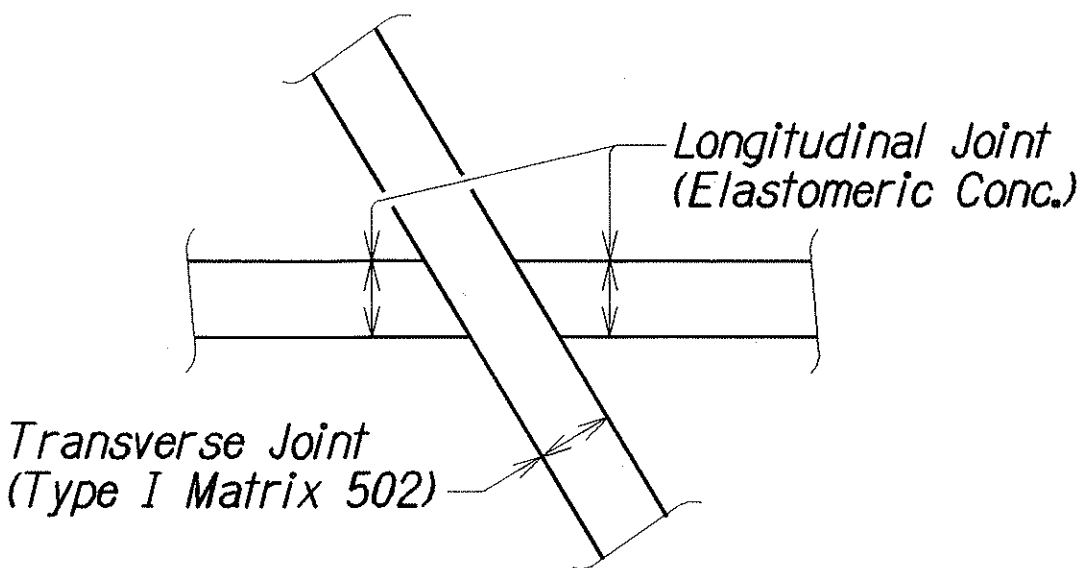
TRANSVERSE JOINT DETAILS

Not to Scale

## TYPICAL JOINT SEAL REPAIRS

### LEGEND FOR AS-BUILT POSTINGS

	Squiggly line for as-built deletion
	Double line for as-built deletion
Roadway	Text for as-built posting



DETAIL AT INTERSECTION OF LONGITUDINAL AND TRANSVERSE JOINTS

Not to Scale

STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION
<b>TYPICAL CONCRETE AND JOINT SEAL REPAIRS</b>
<b>GENERAL NOTES AND ESTIMATED QUANTITIES</b>
INTERSTATE ROUTE H-1 KEEAUMOKU STREET SEPARATION Rehabilitation and Bridge Repair Details Project No. H11-01-97M
Scale: As Noted Date: Apr., 1997

SHEET No. 01 OF 2 SHEETS

"AS-BUILT"