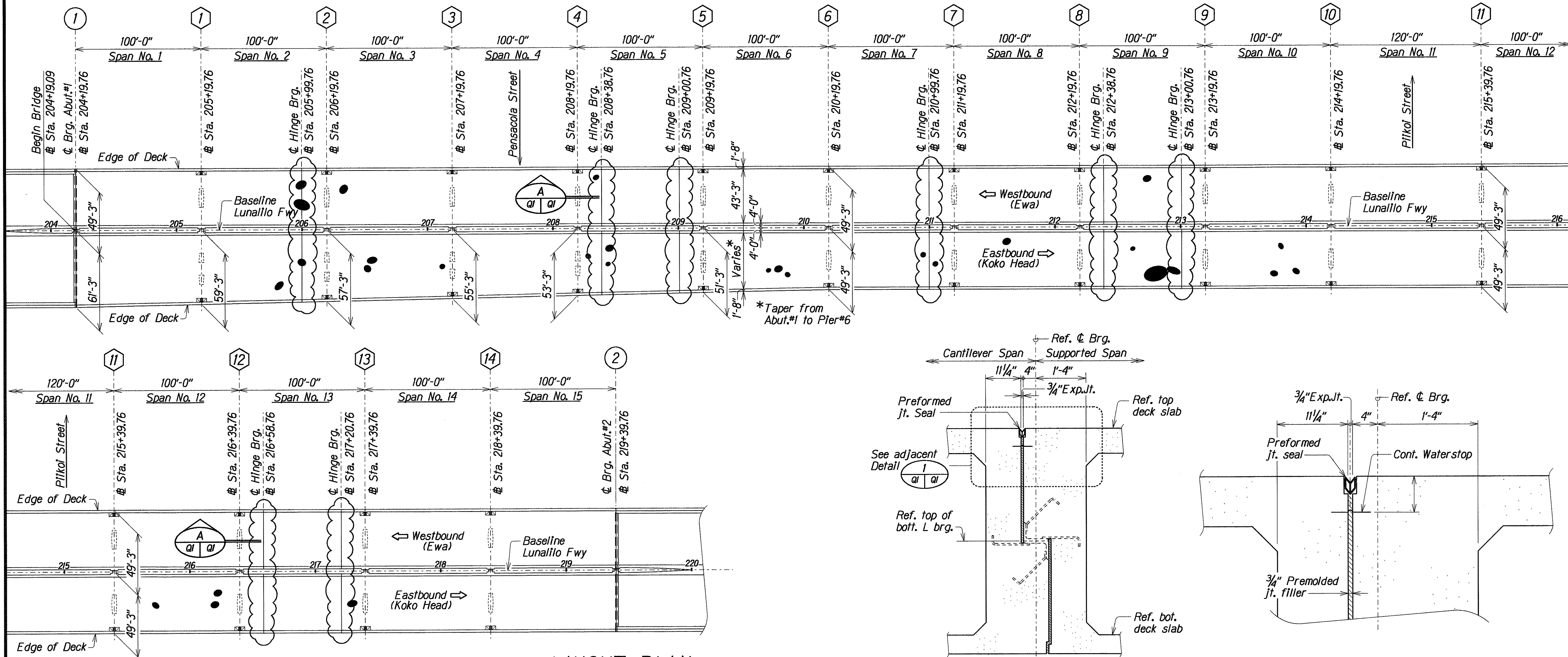
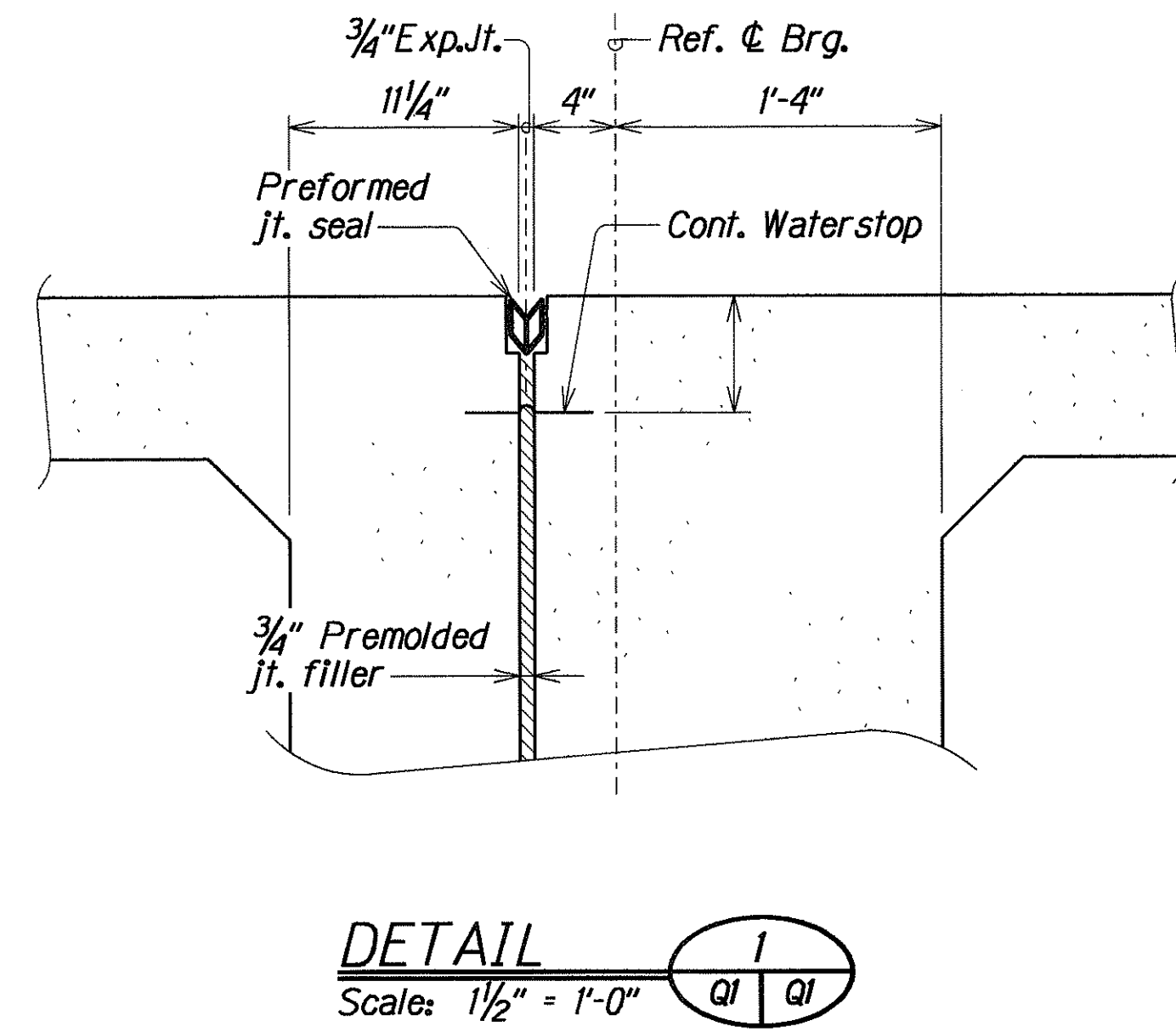
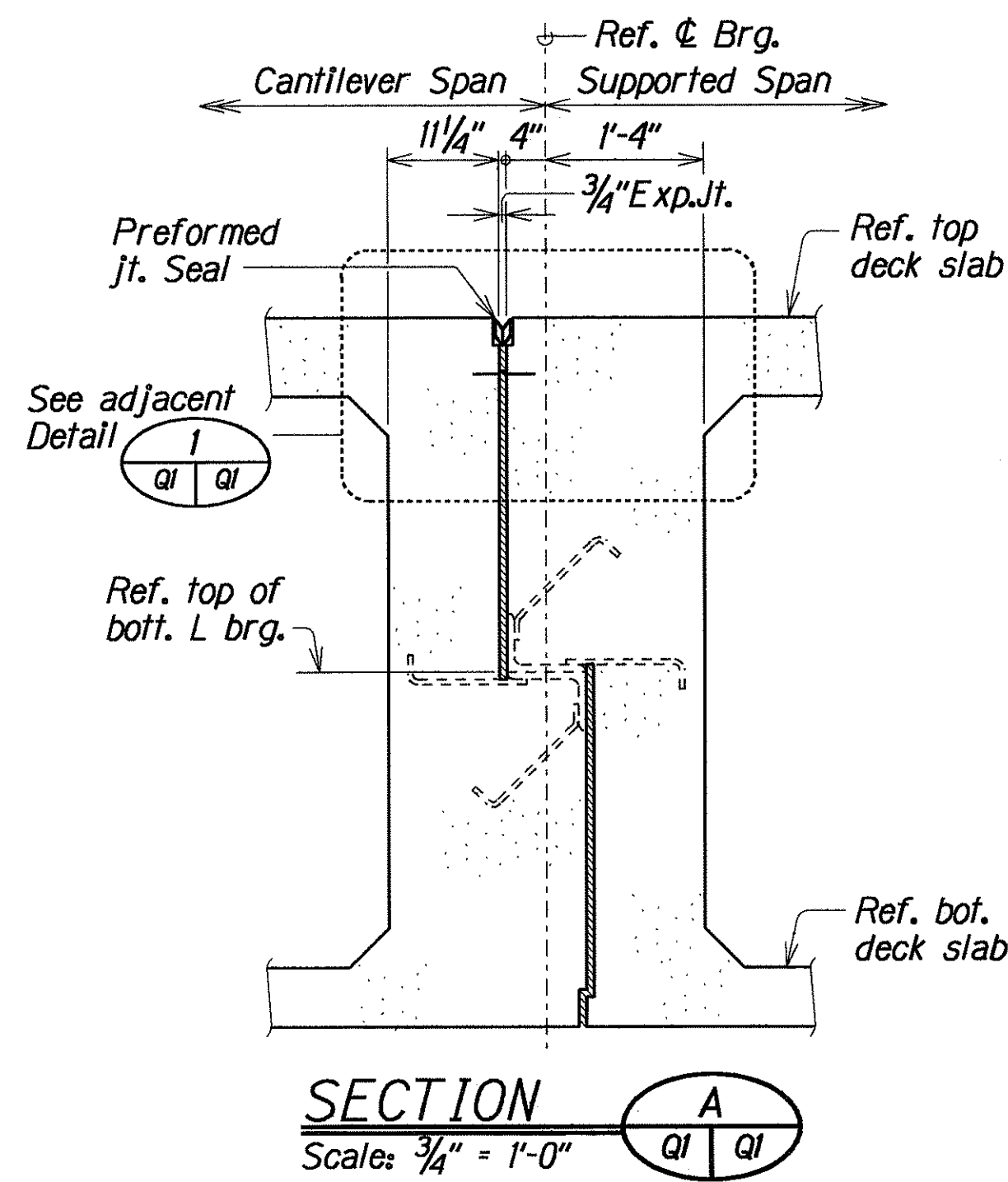


FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	H11-01-94M	1994	3	5



**LAYOUT PLAN**  
**SHOWING SPALL LOCATIONS**  
 Sta. 204+19.09 to Sta. 219+39.17  
 Scale: 1" = 40'-0"



ESTIMATED QUANTITIES			
ITEM NO.	DESCRIPTION	UNITS	QUANTITY
676.0100	Spall Repair	S.F.	219 *
677.0100	Installing Preformed Joint Seals--Piikoi Viaduct	L.S.	(798 L.F.)

\* Includes estimated overrun

**Note:**  
 Spall locations are for illustrative purposes only. Actual location to be determined by the Engineer in the field.

- Key to Symbols:**
- Spall location
  - ▤ Deck storm drain location
  - Pier column location
  - ▤ Replace Expansion Joint Seals

STATE OF HAWAII

DEPARTMENT OF TRANSPORTATION

HIGHWAYS DIVISION

REHABILITATION AND BRIDGE

REPAIR DETAILS

INTERSTATE ROUTE H-1, PIKOI VIADUCT

LAYOUT PLAN, ESTIMATED QUANTITIES,

SECTION AND DETAIL

Project No. H11-01-94M

Scale: As Noted

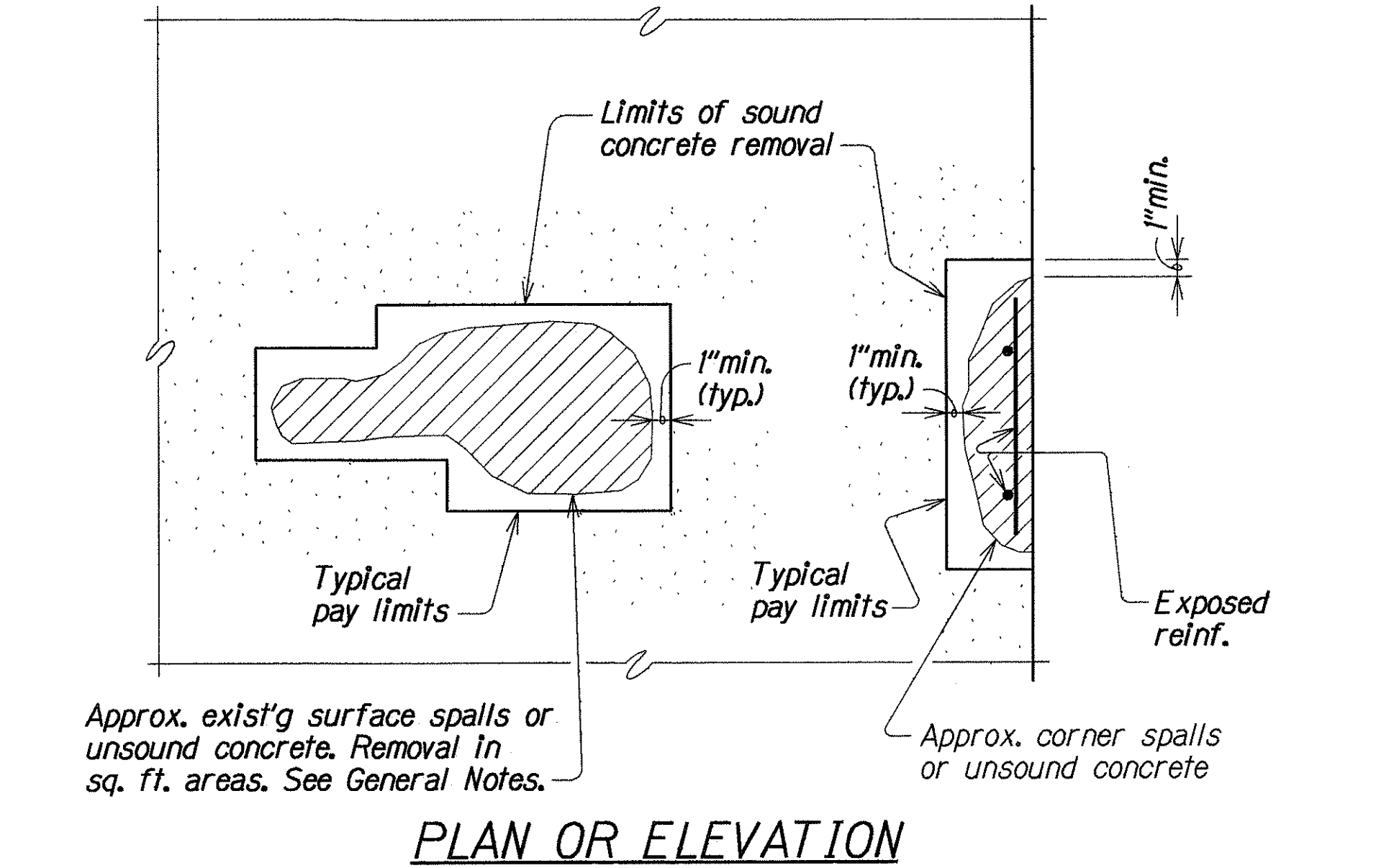
Date: Oct, 1993

SHEET No. 01 OF 2 SHEETS

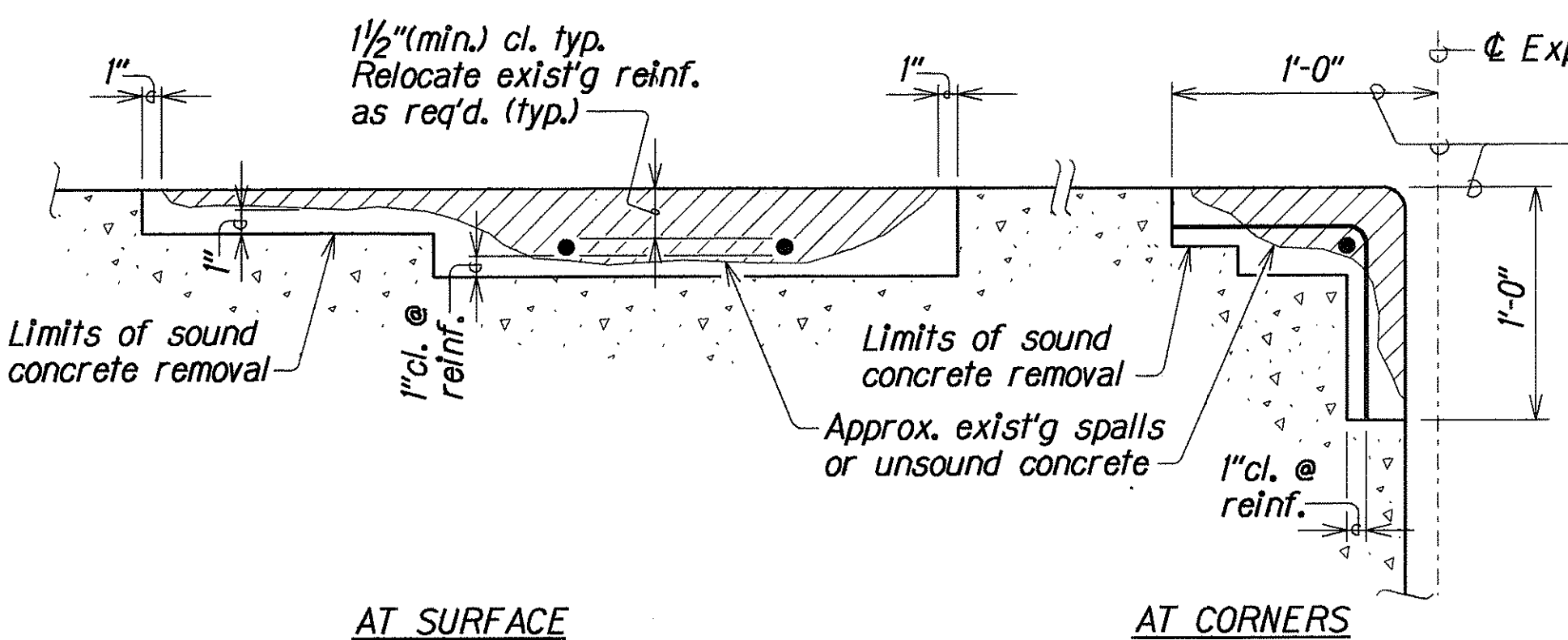
3

ORIGINAL PLAN	DATE	QCT 1993
DRAWN BY	KSG	
TRACED BY	XXX	OCT 1993
QUANTITIES BY	KBY	OCT 1993
CHECKED BY	KBY	OCT 1993
NO. 1	Stamp	

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	H11-01-94M	1994	4	5



PLAN OR ELEVATION

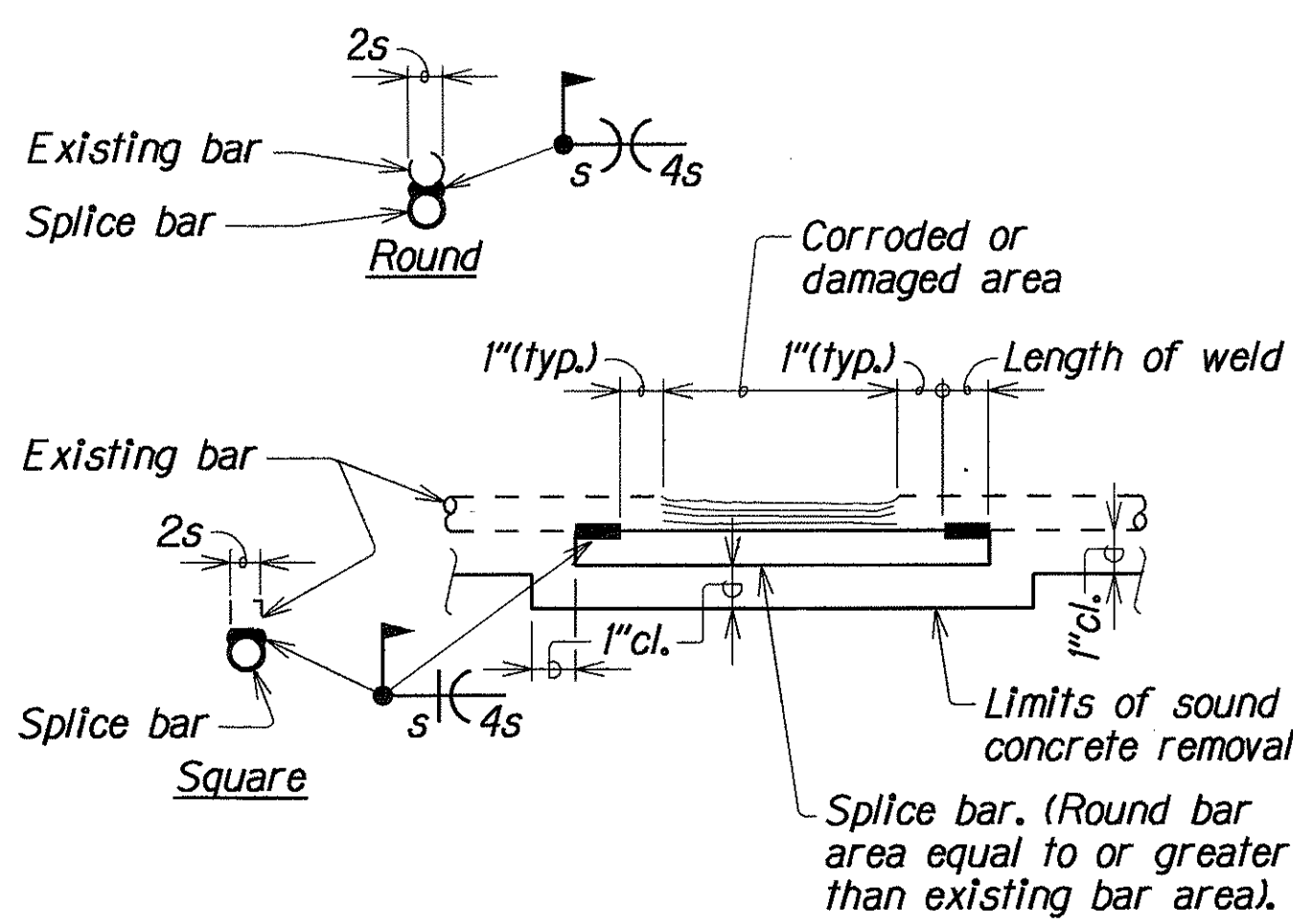


AT SURFACE

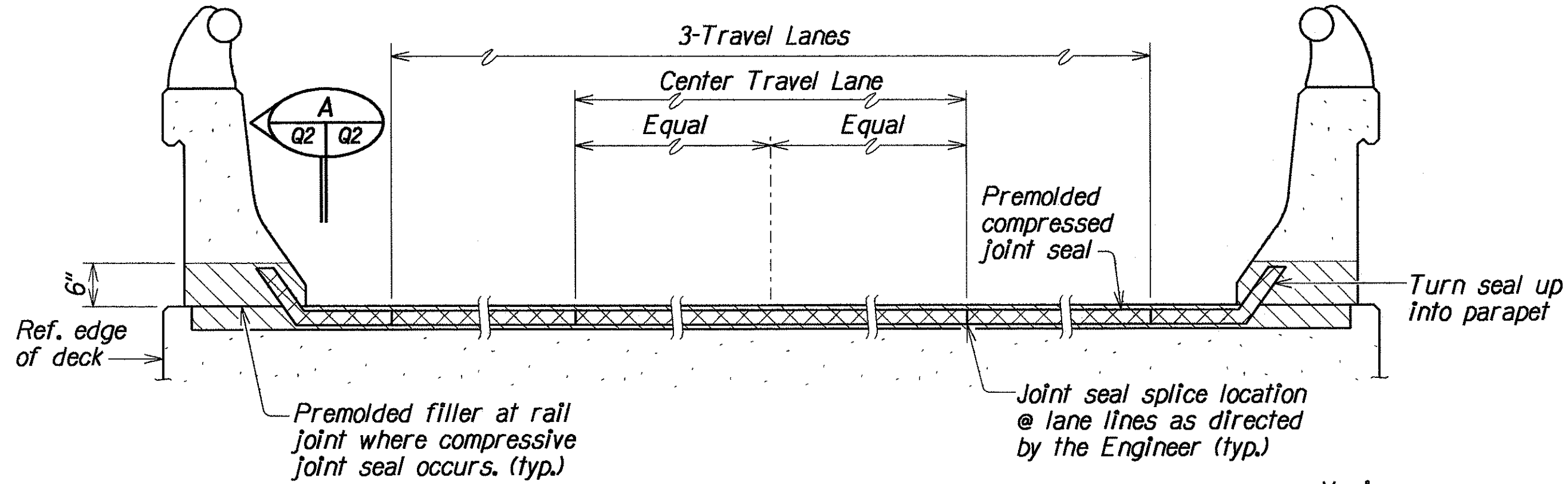
AT CORNERS

TYPICAL SECTIONS

TYPICAL CONCRETE REPAIRS

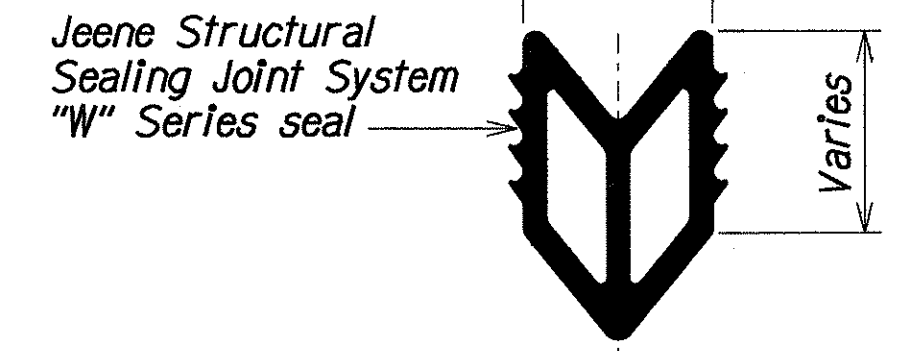


REINFORCING BAR REPAIR SPLICE DETAIL



TYPICAL SECTION AT JOINT SEAL

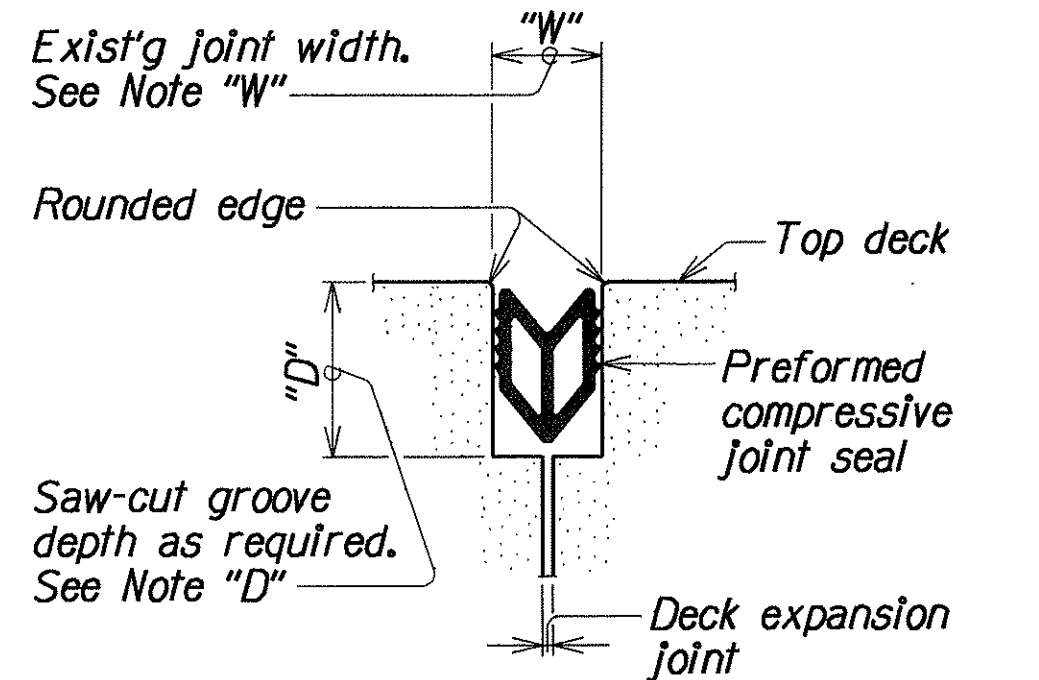
Scale: 3/4" = 1'-0"



SEAL DETAIL

Not to Scale

TYPICAL JOINT SEAL REPAIRS



Note:

"W" Existing joint width. This width shall also be the installation width of the new preformed joint seal. The new preformed joint seal size shall be determined by this installation width as recommended by the manufacturer, and shall be approved by the Engineer. This width "W" shall be uniform throughout and shall be saw-cut, if required, as approved by the Engineer.

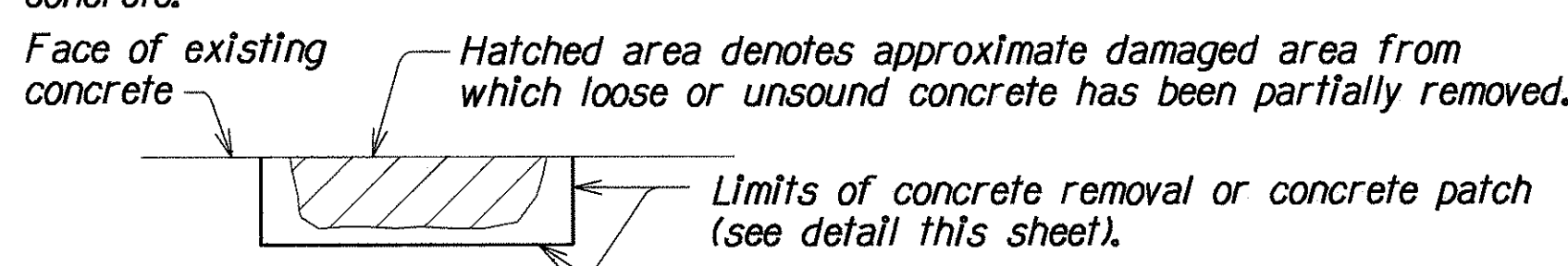
"D" Groove depth as recommended by the manufacturer. This depth shall be obtained by saw cutting, as required.

SECTION A

## 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 polyurethane concrete.
- Provide minimum 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.



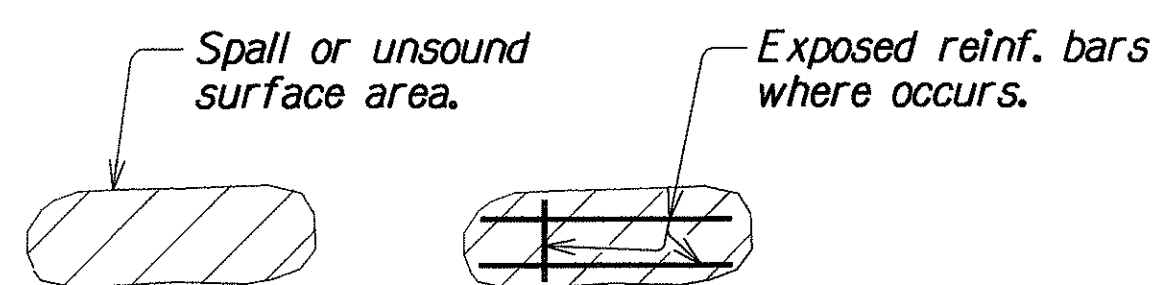
INCIDENTAL ITEMS: The following items shall be considered incidental to the various pay items or repairs and will not be paid for separately:

- Cleaning of all exposed, corroded reinforcing steel to sound metal.
- Reinforcing bars and all welding work 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.

### 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

STATE OF HAWAII  
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REHABILITATION AND BRIDGE  
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INTERSTATE ROUTE H-1, PIKOI VIADUCT  
TYPICAL CONCRETE AND JOINT SEAL  
REPAIRS AND GENERAL NOTES  
Project No. H11-01-94M  
Scale: As Noted  
Date: Oct. 1993