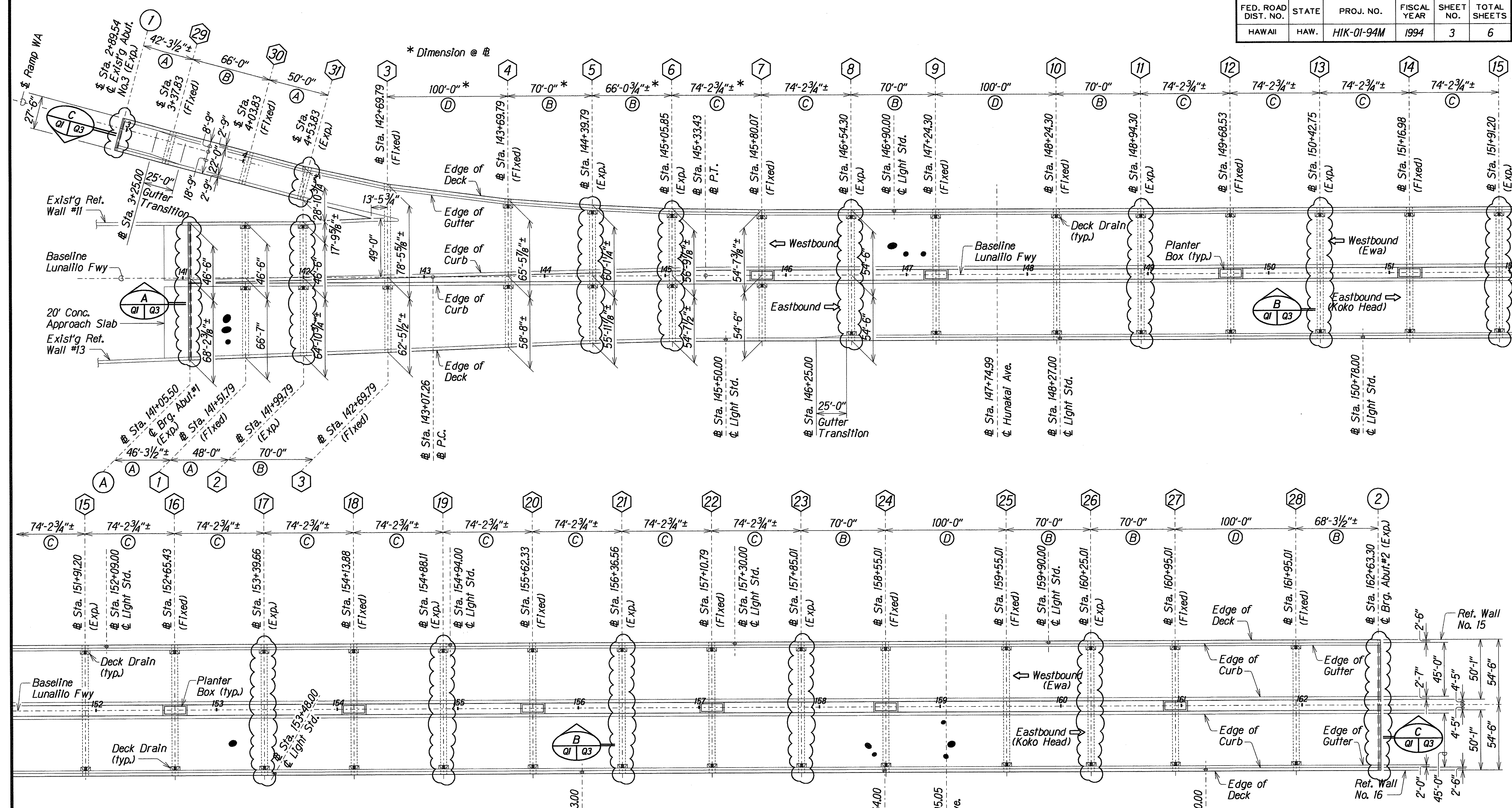


FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HIK-01-94M	1994	3	6



ESTIMATED QUANTITIES			
ITEM NO.	DESCRIPTION	UNITS	QUANTITY
676.0100	Spall Repair	S.F.	31 *
677.0100	Installing Preformed Joint Seals--Waialae Viaduct	L.S.	(3,032 L.F.)

* Includes estimated overrun

LAYOUT PLAN
SHOWING SPALL LOCATIONS
 Sta. 141+05.50 to Sta. 162+63.30
 Scale: 1" = 40'-0"

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

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

STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION

REHABILITATION AND BRIDGE REPAIR DETAILS

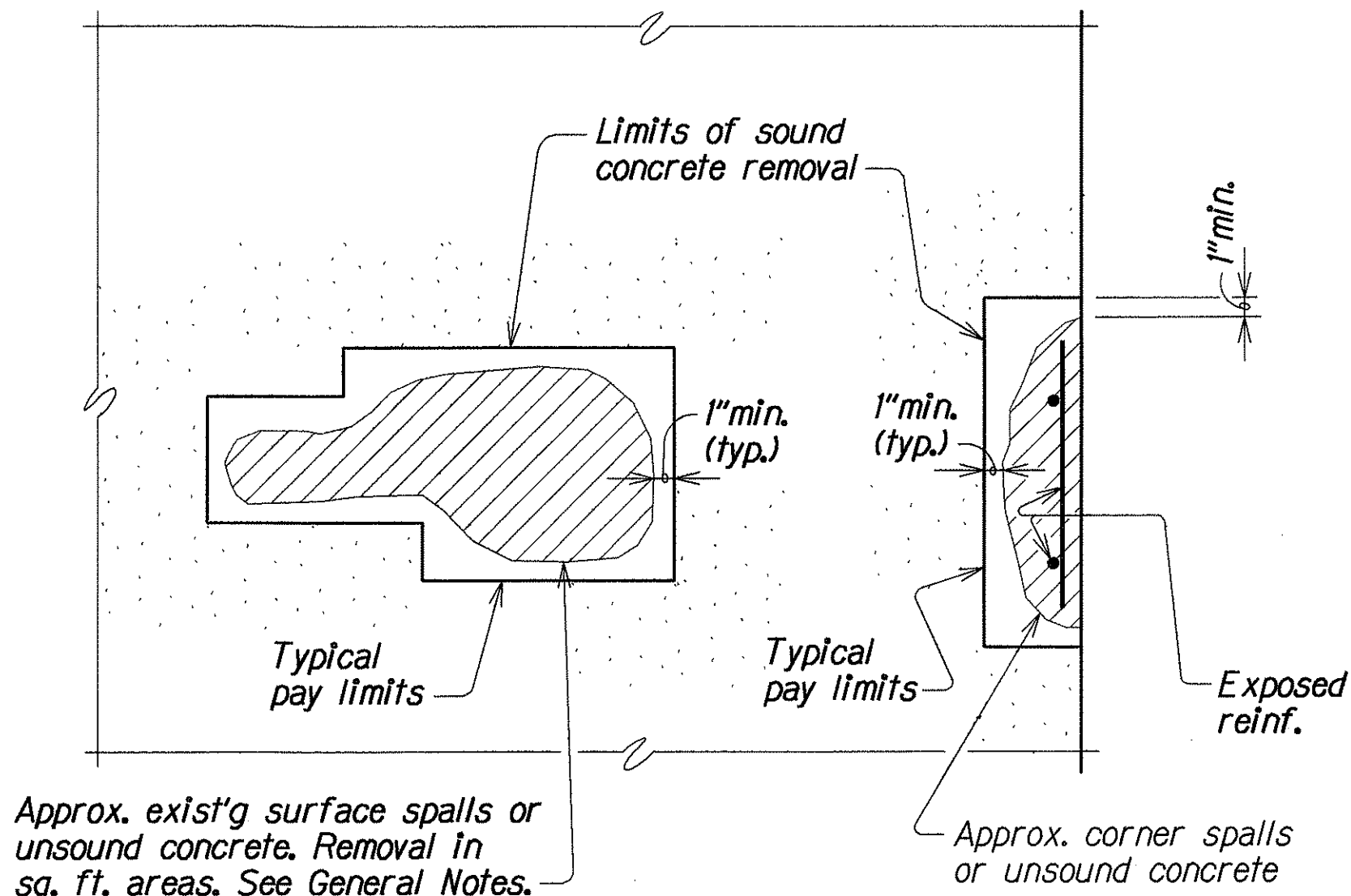
INTERSTATE ROUTE H-1, WAIALAE VIADUCT
LAYOUT PLAN AND ESTIMATED QUANTITIES
 Project No. HIK-01-94M

Scale: As Noted Date: Oct. 1993

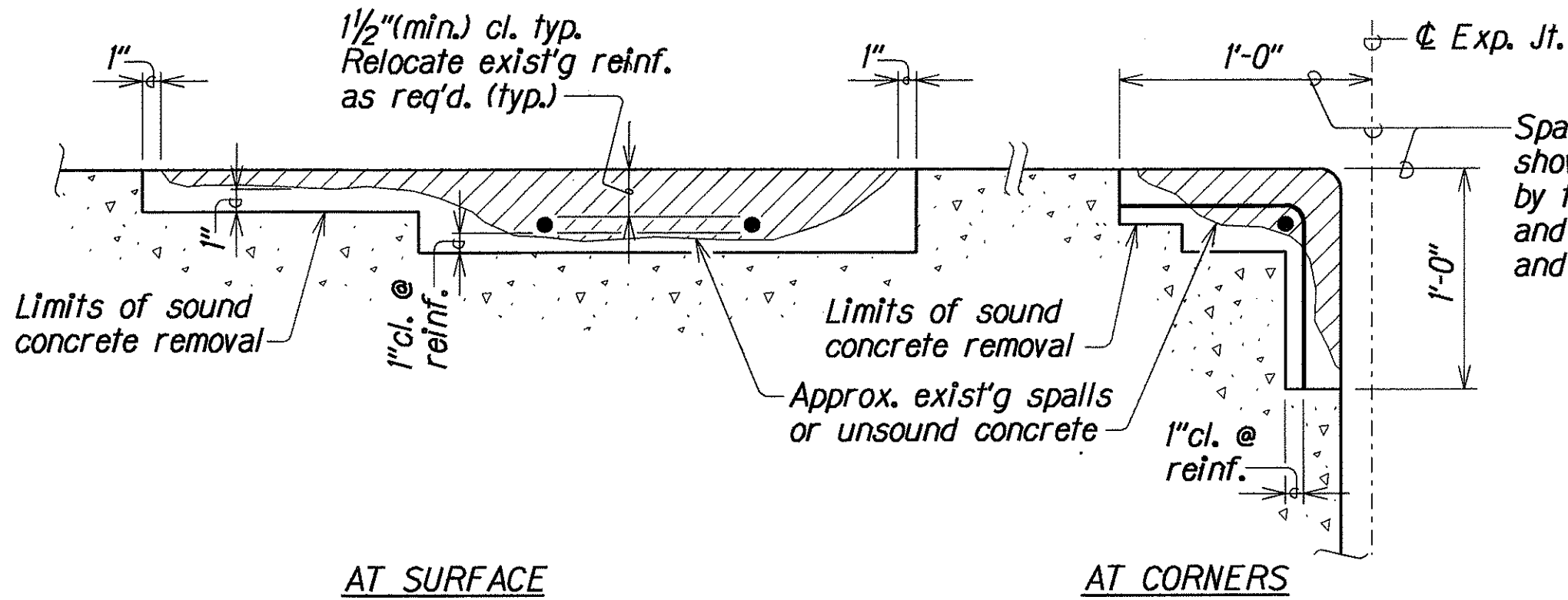
SHEET No. 01 OF 3 SHEETS

ORIGINAL PLAN	DATE	BY
DESIGNED BY	01/93	XXX
DRAWN BY	01/93	XXX
CHECKED BY	01/93	XXX
IN CHARGE	01/93	XXX

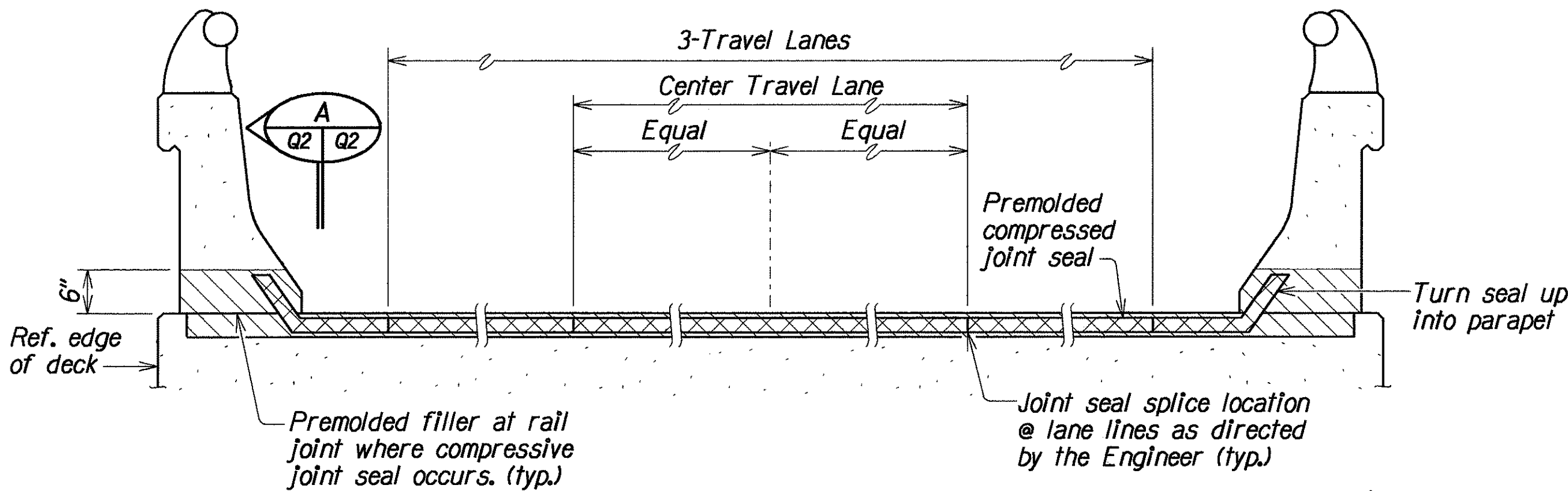
FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HIK-01-94M	1994	4	6



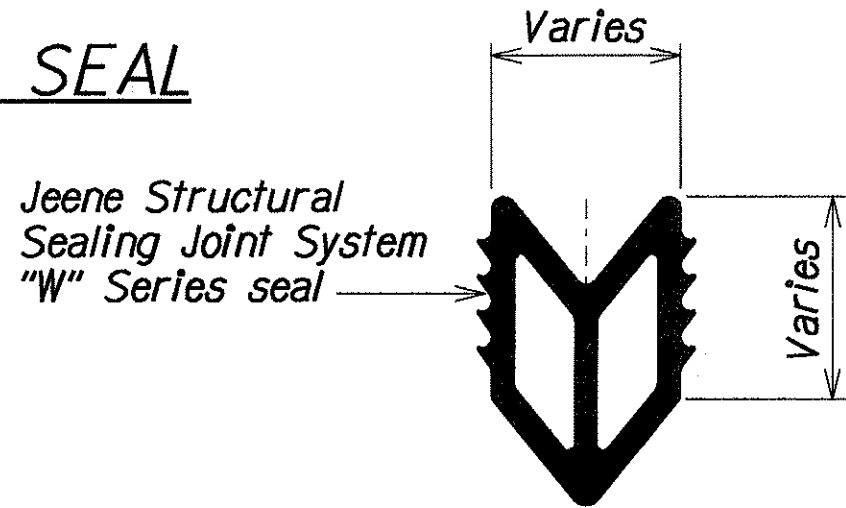
PLAN OR ELEVATION



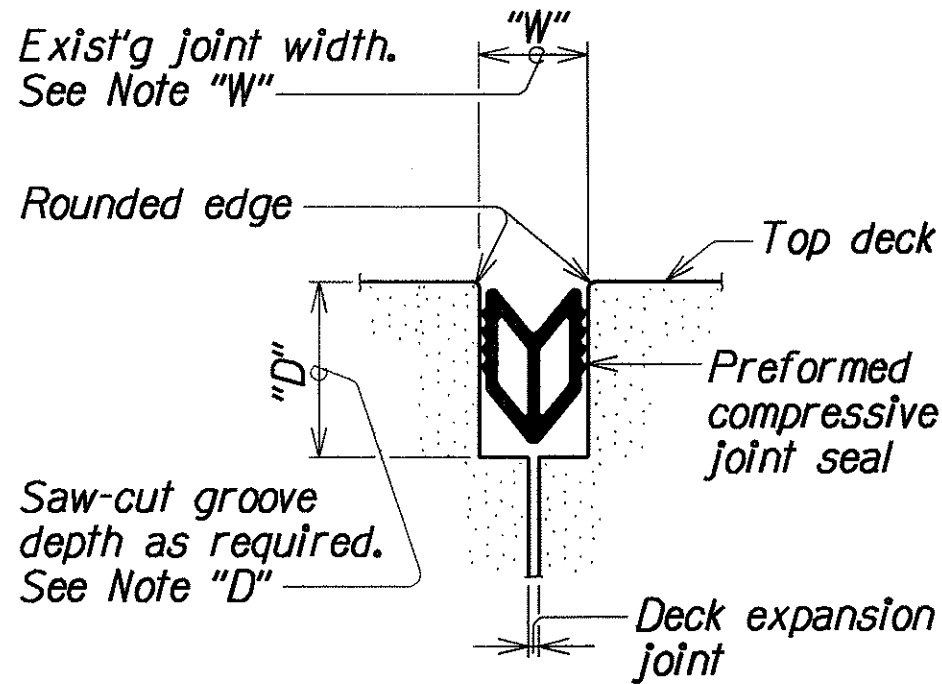
AT SURFACE
AT CORNERS
TYPICAL SECTIONS
TYPICAL CONCRETE REPAIRS
Not to Scale



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
Not to Scale

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.
Face of existing concrete
Hatched area denotes approximate damaged area from which loose or unsound concrete has been partially removed.
Limits of concrete removal or concrete patch (see detail this sheet).
- 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.

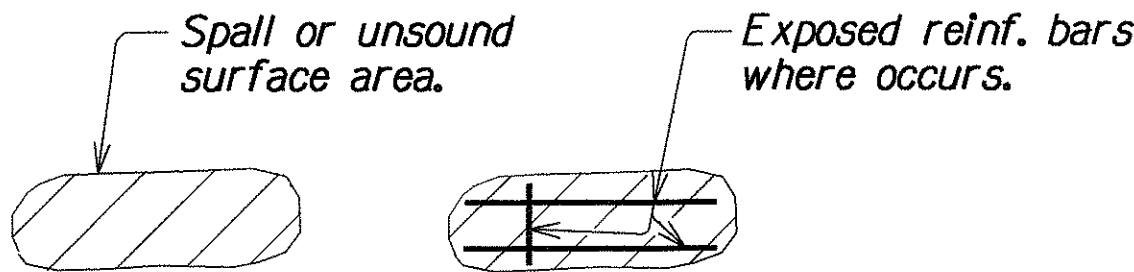
INCIDENTAL ITEMS: The following items shall be considered incidental to the various pay items or repairs and will not be paid for separately:

- Cleaning of all exposed, corroded reinforcing steel to sound metal.
- Reinforcing bars 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:



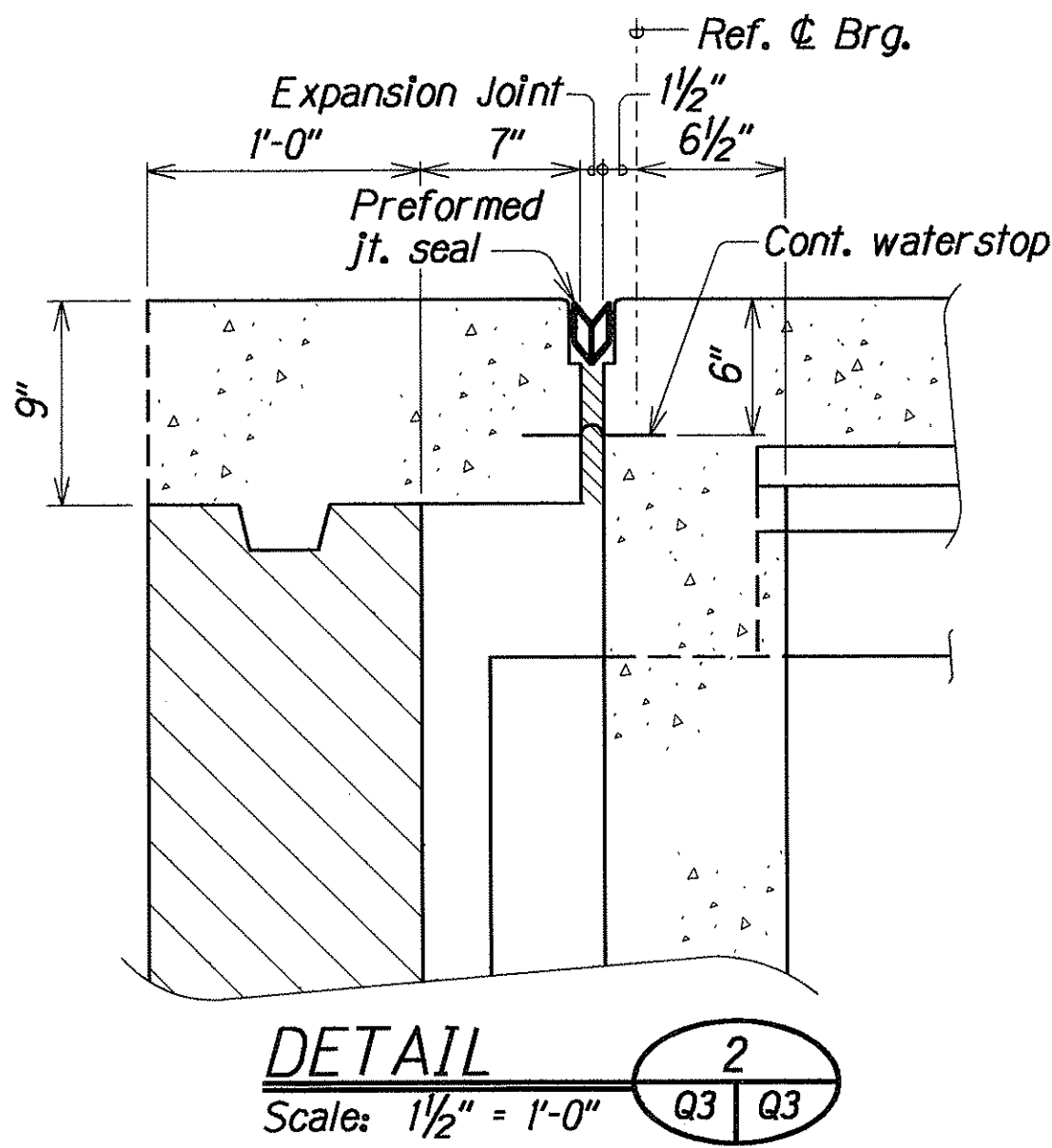
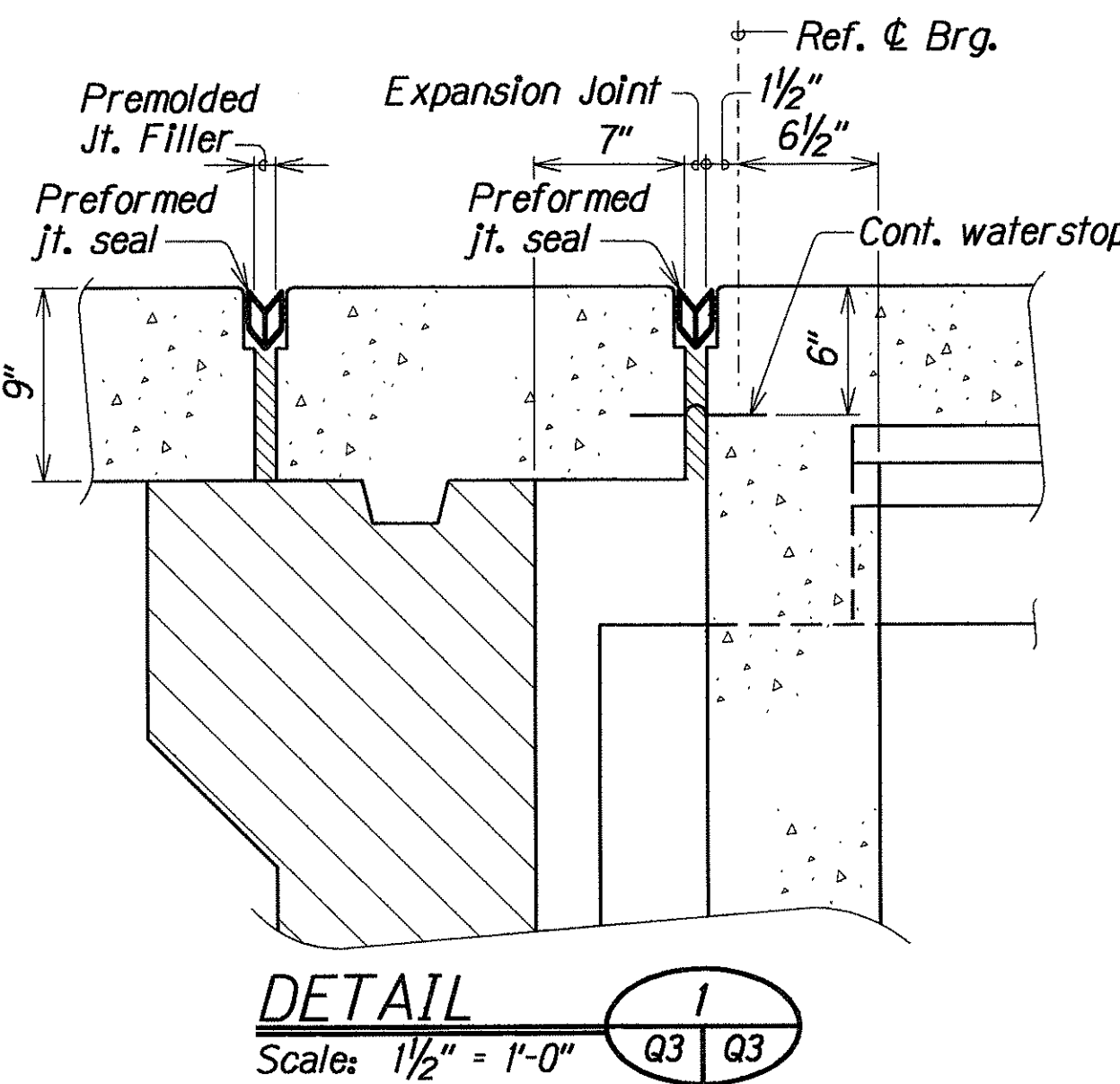
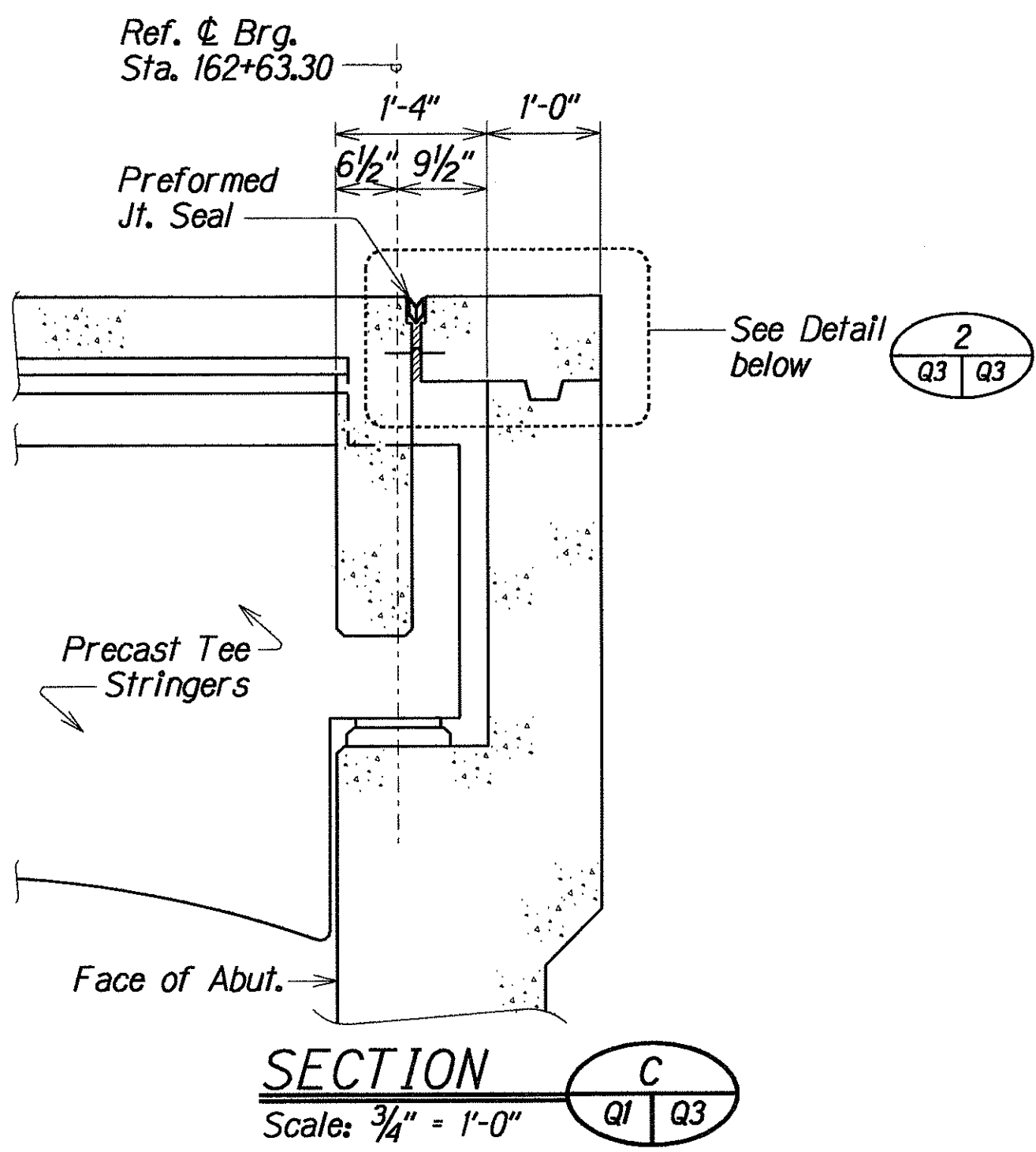
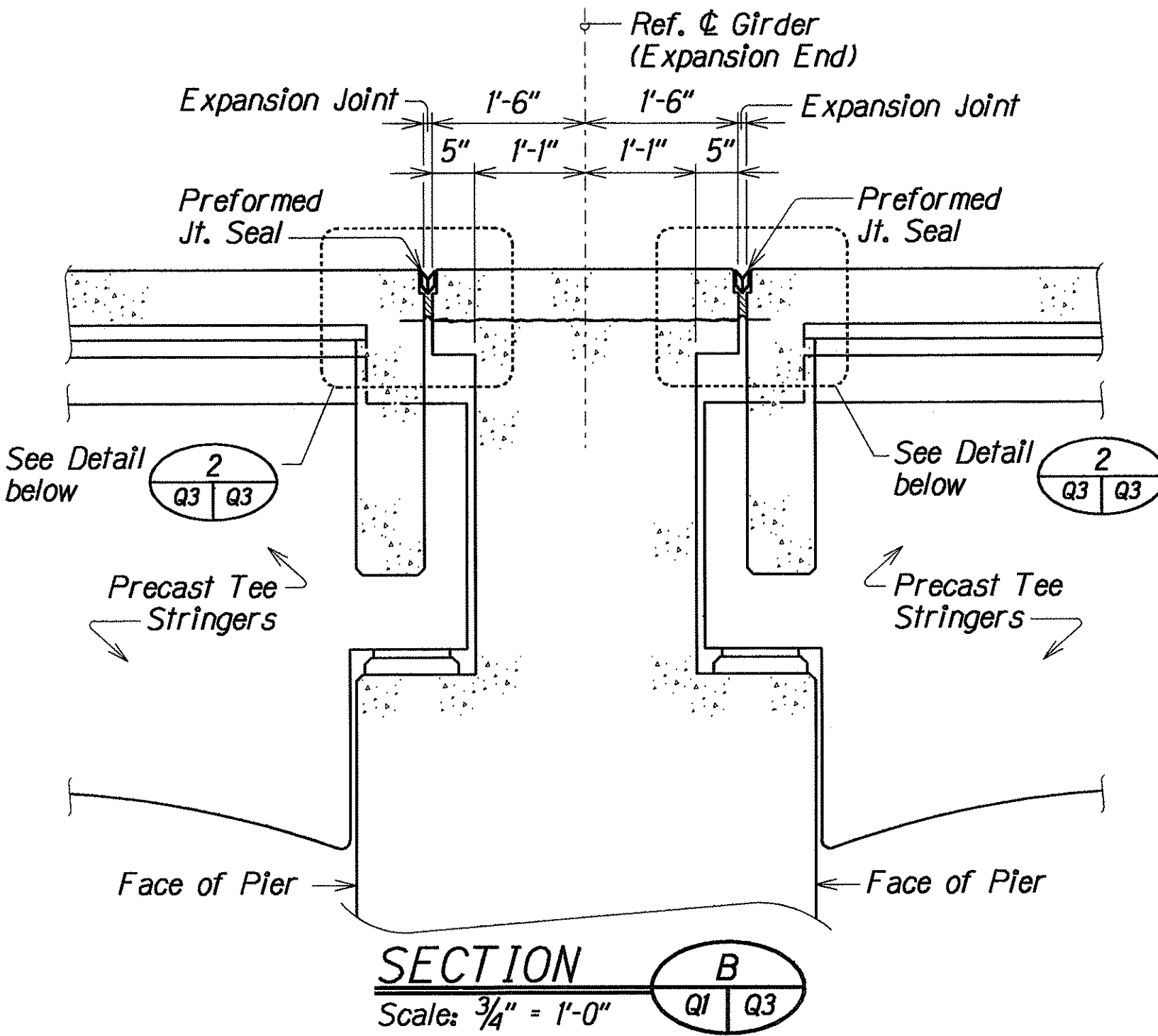
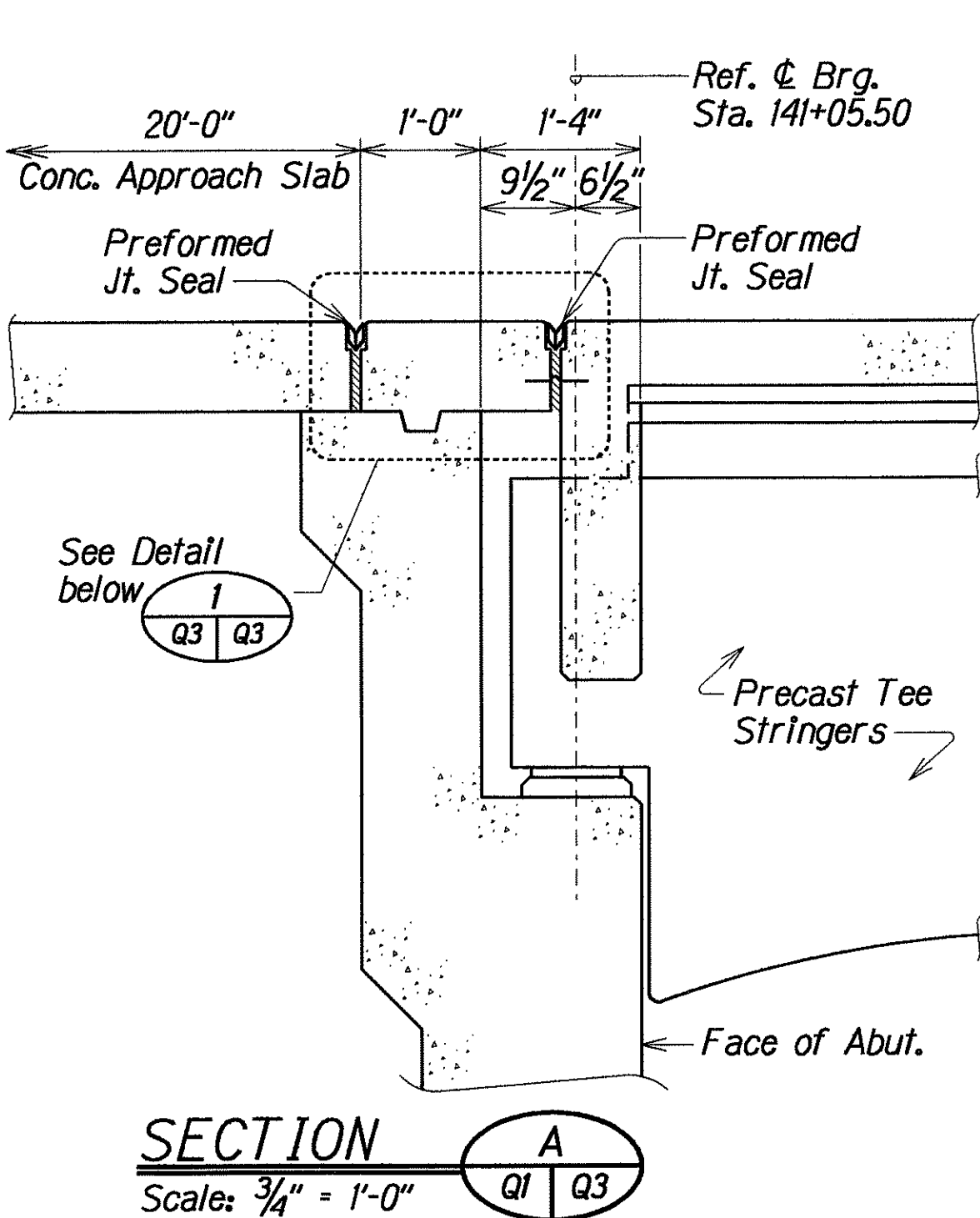
S.S.: Surface spall (Concrete)
S.C.: Surface crack (Concrete)
H.C.: Hairline crack
S.F. or sq. ft.: Square feet
L.F.: Linear feet

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

SHEET No. Q2 OF 3 SHEETS

ORIGINAL PLAN	DATE
DRAWN BY	OCT 1993
TRACED BY	OCT 1993
DESIGNED BY	OCT 1993
CHECKED BY	OCT 1993
NOTED BY	OCT 1993
APPROVED BY	OCT 1993

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HIK-01-94M	1994	5	6



SURVEY PLOTTED BY	DATE
DRAWN BY	07/1993
TRACED BY	
NOTE BOOK	07/1993
QUANTITIES BY	07/1993
CHECKED BY	07/1993

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

REHABILITATION AND BRIDGE
REPAIR DETAILS
INTERSTATE ROUTE H-1, WAIALAE VIADUCT
SECTIONS AND DETAILS
Project No. HIK-01-94M

Scale: As Noted
Date: Oct, 1993

SHEET No. Q3 OF 3 SHEETS