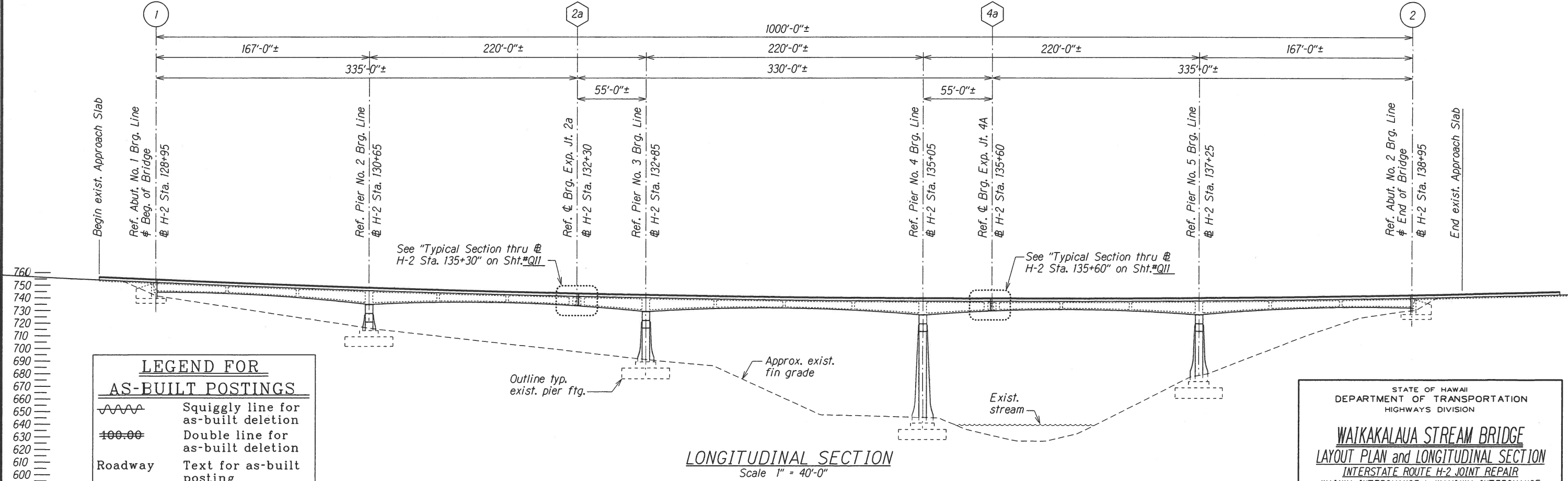
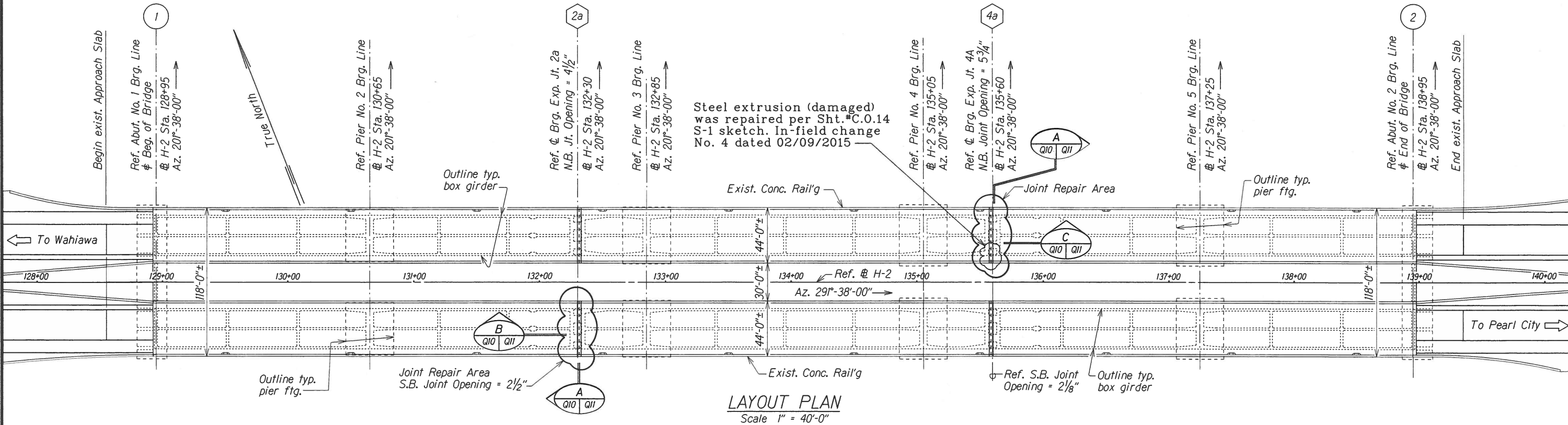


FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	H2A/G-02-05M	2014	15	30



**LEGEND FOR AS-BUILT POSTINGS**

Squiggly line for as-built deletion

Double line for as-built deletion

Roadway Text for as-built posting

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

**WAIKAKALAU STREAM BRIDGE**  
LAYOUT PLAN and LONGITUDINAL SECTION  
INTERSTATE ROUTE H-2 JOINT REPAIR  
WAIKAKALAU INTERCHANGE to WAHIKAKALAU INTERCHANGE  
Project No. H2A/G-02-05M

Scale: As Noted Date: Aug. 2013

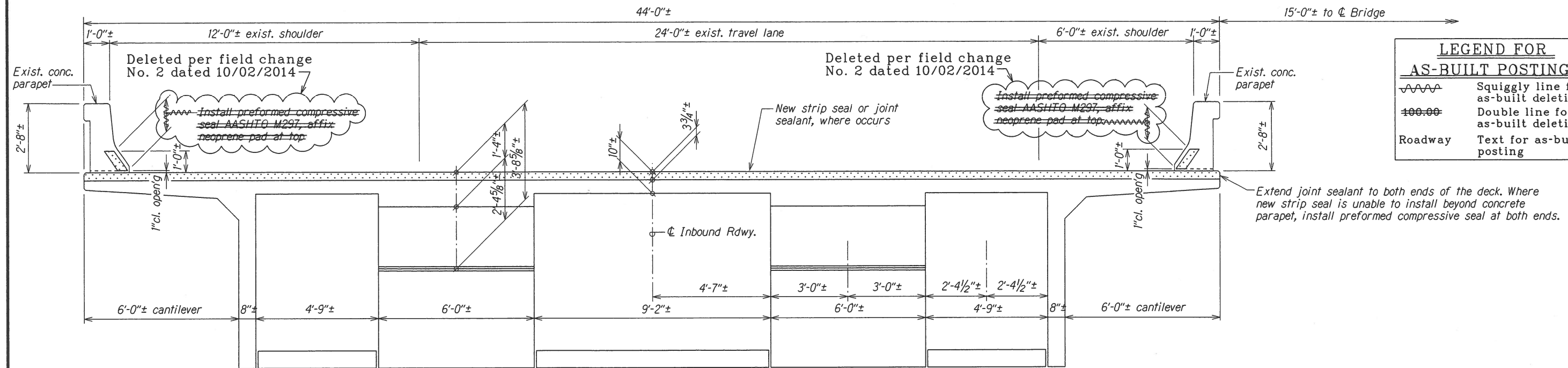
SHEET No. Q10 OF 22 SHEETS

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTE BOOK	DRAWN BY	
	DESIGNED BY	
	CHECKED BY	

# WAIKAKALAU STREAM BRIDGE

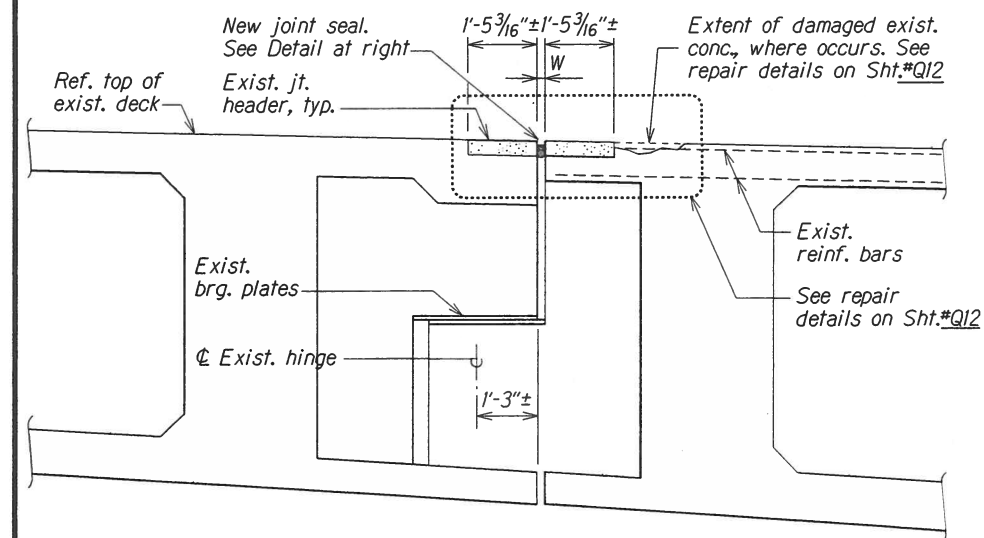
"AS-BUILT"

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	H2A/G-G-02-05M	2014	16	30



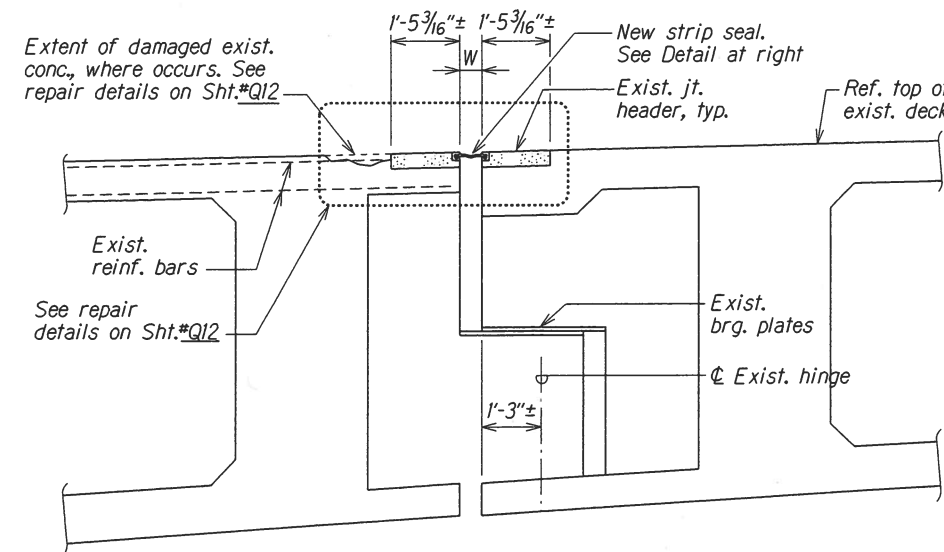
TYPICAL TRANSVERSE SECTION

Scale:  $\frac{1}{2}'' = 1'-0''$



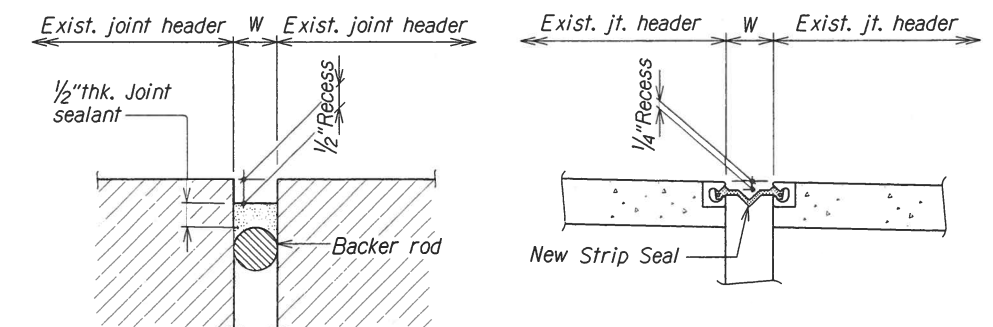
SECTION thru SOUTHBOUND (S.B.)  
@ STA. 132+30

Scale:  $\frac{1}{2}" = 1'-0"$



SECTION thru NORTHBOUND (N.B.)  
# STA. 135+60

Scale:  $\frac{1}{2}'' = 1'-0''$



For  $1'' \leq W \leq 2\frac{1}{2}''$ , where occurs

For  $1" \leq W \leq 2\frac{1}{2}"$ , remove existing joint sealant and install new joint sealant. See Special Provisions.

For  $W \geq 3''$ , where occurs

For  $W \geq 3"$ , where occurs, remove existing strip seal and install new strip seal, equal size as existing seal. See Special Provisions.

<u>South-Bound Lane</u>	
<u>Station</u>	<u>W</u>
132+30	2 1/2"
135+60	2 1/8"

<u>North-Bound Lane</u>	
<u>Station</u>	<u>W</u>
132+30	4 1/2"
135+60	5 3/4"

JOINT OPENING (W)

JOINT DETAIL

*Not to Scale*

WAIKAKALAUA STREAM BRIDGE

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

WAIKAKALAUA STREAM BRIDGE

TYPICAL SECTION THRU JOINT

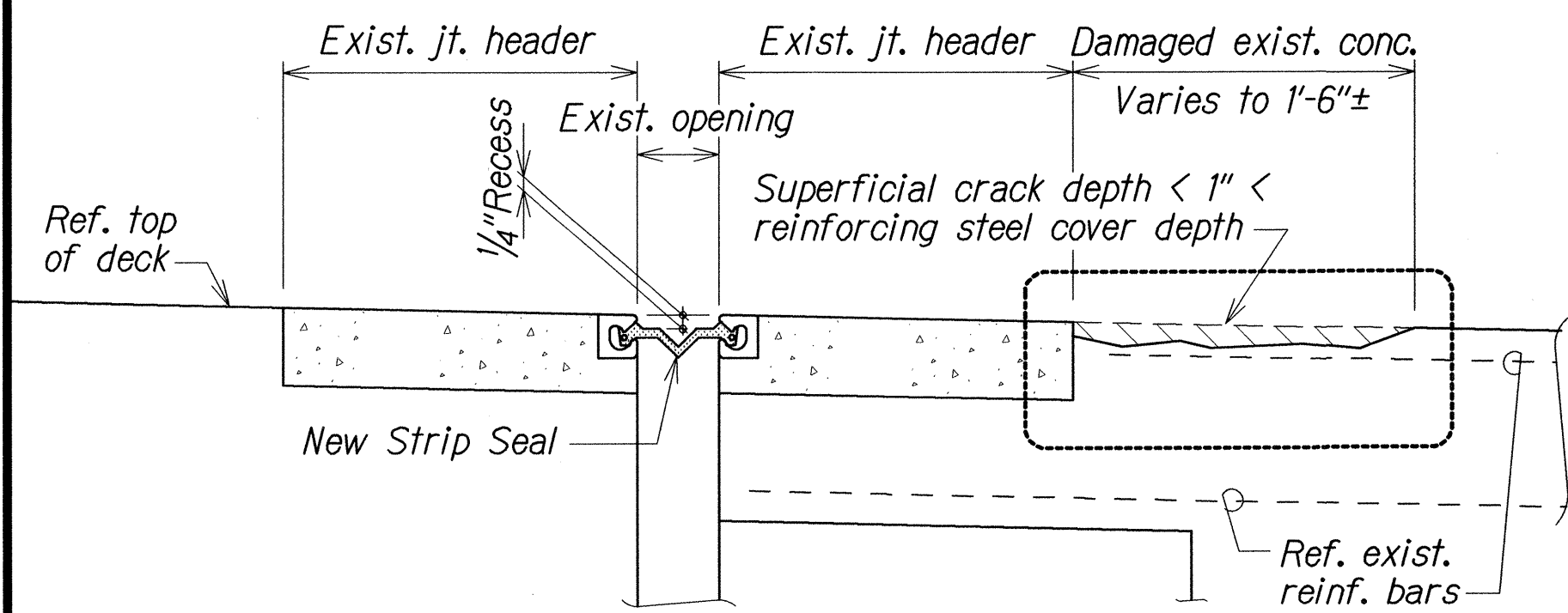
INTERSTATE ROUTE H-2 JOINT REPAIR  
WAI'AWA INTERCHANGE to WAHIAWA INTERCHANGE  
Project No. H2A/G-02-05M

Scale: As Noted

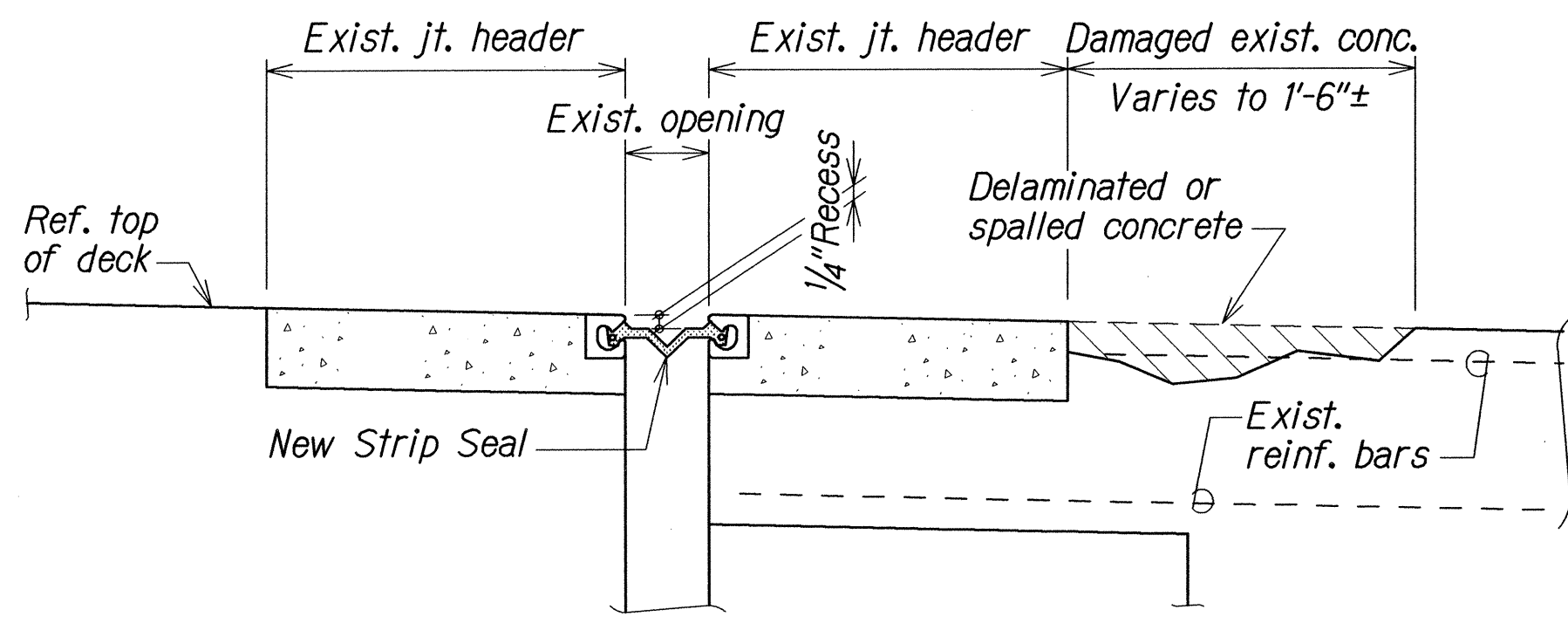
Date: Aug, 2013

SHEET No. 911 OF 22 SHEETS

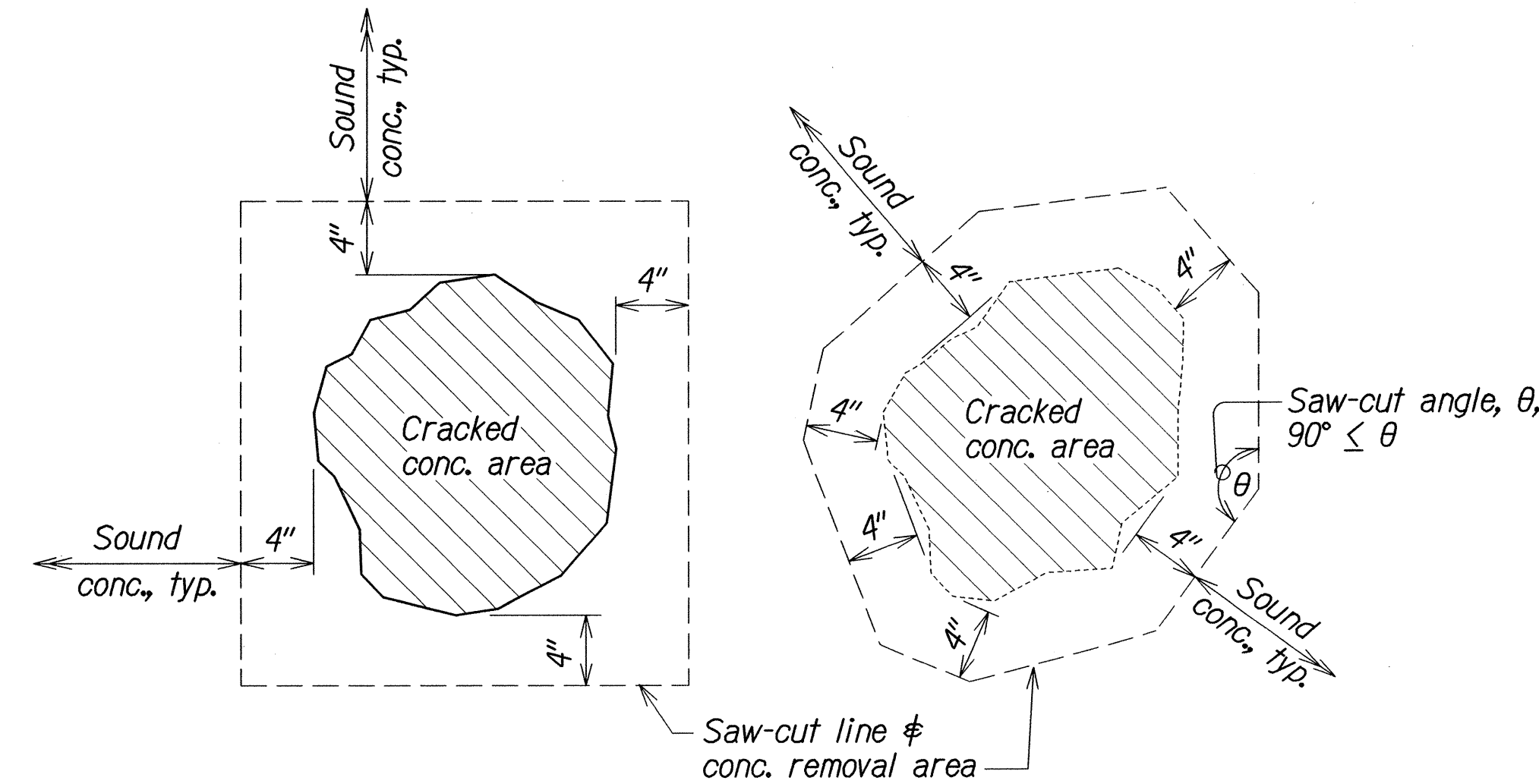
FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	H2A/G-02-05M	2014	17	30



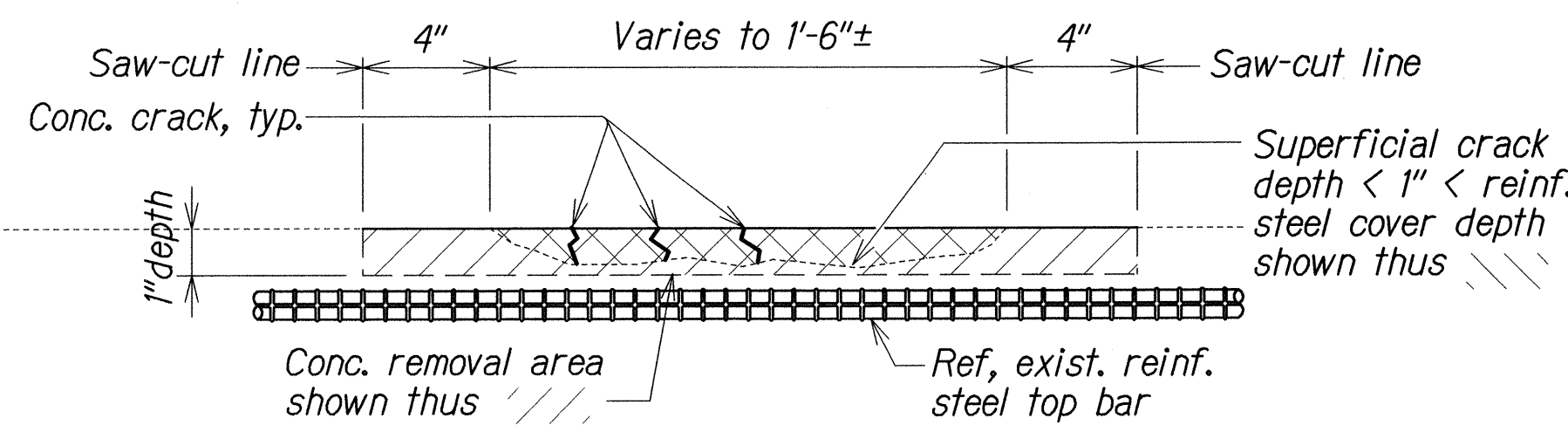
TYPICAL REPAIR SECTION  
SUPERFICIAL CRACK DEPTH < 1" < REINFORCING STEEL COVER DEPTH  
Not to Scale



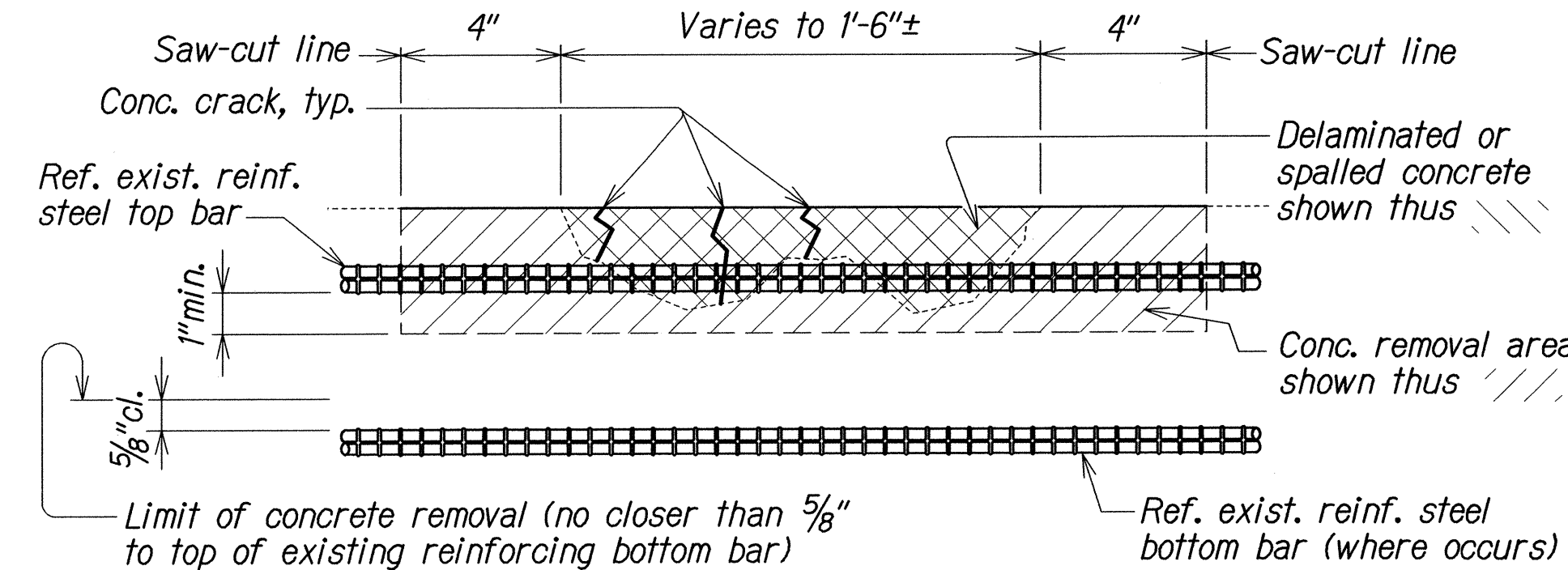
TYPICAL REPAIR SECTION  
DELAMINATED OR SPALLED CONCRETE  
Not to Scale



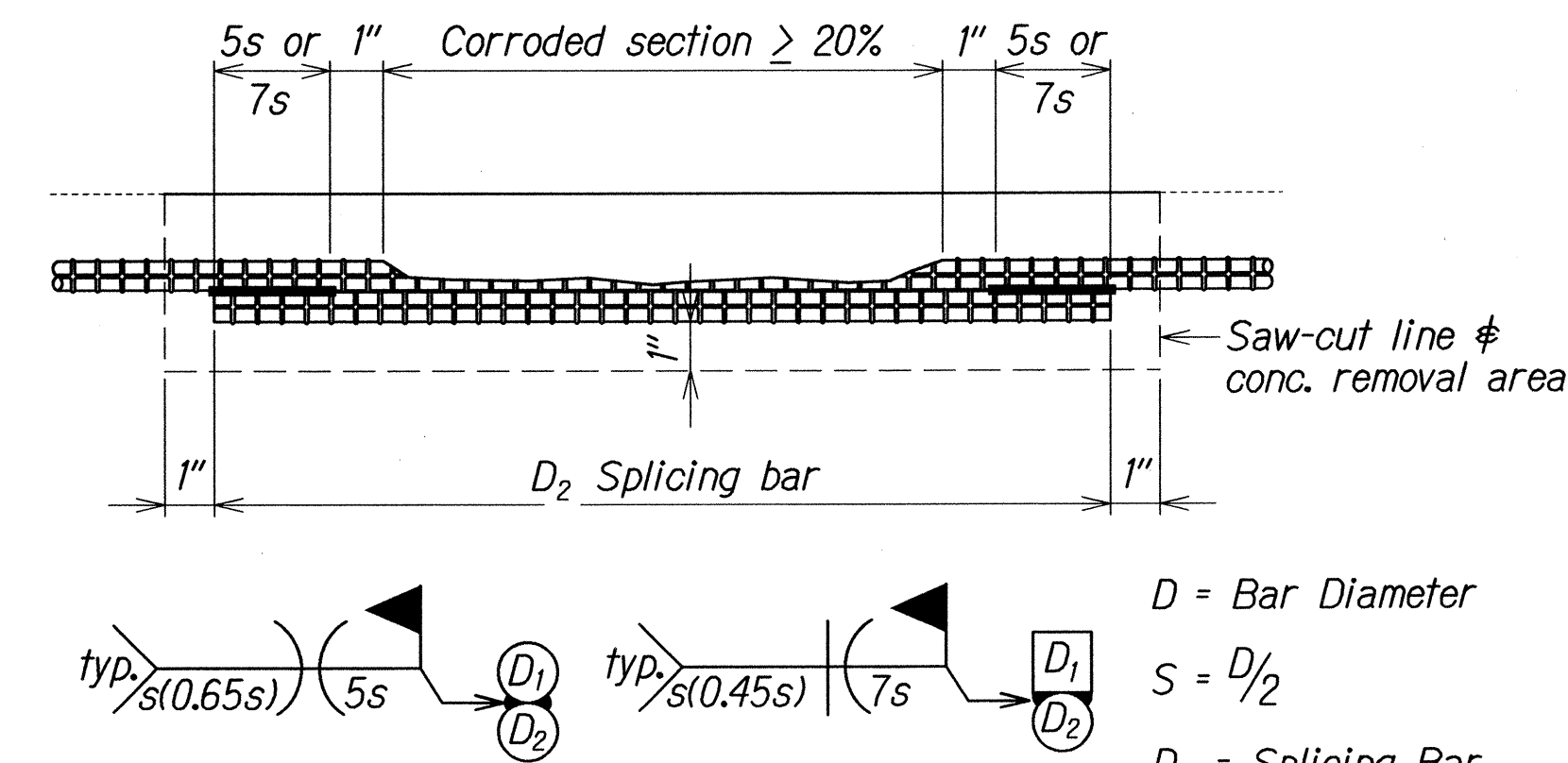
TYPICAL REPAIR AREA PLAN  
Not to Scale



TYPICAL REPAIR DETAIL  
SUPERFICIAL CRACK DEPTH < 1" < REINFORCING STEEL COVER DEPTH  
Not to Scale



TYPICAL REPAIR DETAIL  
DELAMINATED OR SPALLED CONCRETE  
Not to Scale



$$D = \text{Bar Diameter}$$

$$S = D/2$$

$$D_2 = \text{Splicing Bar}$$

$$\text{when } D_2 \geq D_1, S = D_1/2$$

TYPICAL REINFORCING BAR REPAIR DETAIL  
Not to Scale

### NOTES:

1. Saw-cut 1/2"-deep into existing concrete, adjusting the saw-cut depth according to the cover of existing reinforcing bar. The Contractor shall probe the location of the existing rebars. Do not cut existing reinforcing bars.
2. Remove rust from existing reinforcing bar. Clean reinforcing bars to its bare metal. Splice existing reinforcing bars that are corroded 20% or greater of its original cross sectional area.
3. For repair patching material and new strip seal and joint sealant, see Special Provisions.
4. Repairs to concrete spalls, delamination, cracks, removal of rust and cleaning of existing reinforcing bars, welding and splicing of rebars shall be considered incidental and shall not be paid for separately.
5. The Contractor shall verify in the field the size of strip seals and joint sealants, dimensions, etc., prior to commencing work, and notify the Engineer in advance of any discrepancies or omissions from the contract plans.
6. See Special Provisions for material specifications and construction requirements.

## BRIDGE REPAIR DETAILS--WAIKAKALAUA STREAM BRIDGE

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTE BOOK	DRAWN BY	
44900015.012	CHECKED BY	
44900015.012	QUANTITIES BY	
44900015.012		

db-4/dt/10/27/13/sj/k/kipap013/

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

**WAIKAKALAUA STREAM BRIDGE**  
BRIDGE REPAIR DETAILS  
INTERSTATE ROUTE H-2 JOINT REPAIR  
WAIANA INTERCHANGE to WAHIANA INTERCHANGE  
Project No. H2A/G-02-05M

Scale: As Noted  
Date: Aug, 2013

SHEET No. Q12 OF 22 SHEETS