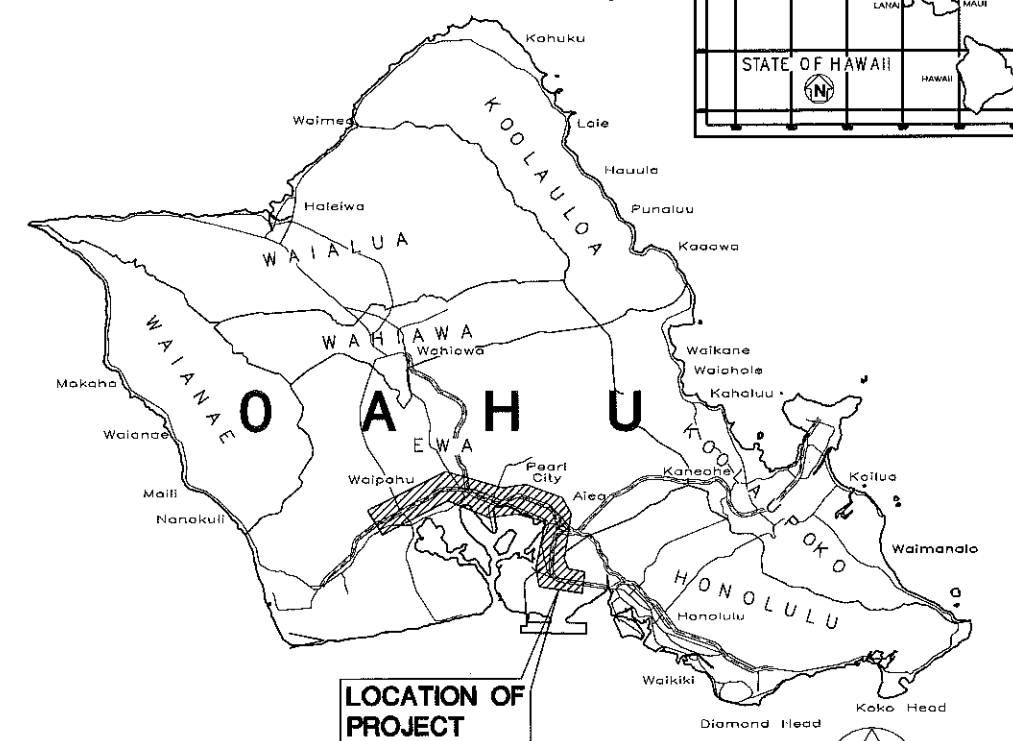
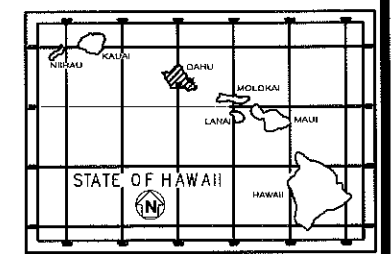


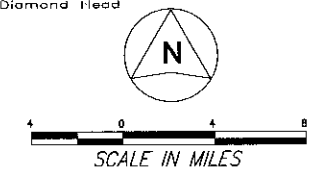
## ATTACHMENTS

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION  
HONOLULU, HAWAII  
PLANS FOR  
INTERSTATE ROUTE H-1  
PM CONTRAFLOW LANE, PHASE 2  
VICINITY OF RADFORD DRIVE TO WAIAWA INTERCHANGE  
DISTRICT OF EWA AND HONOLULU  
ISLAND OF OAHU

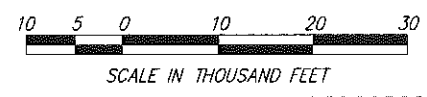
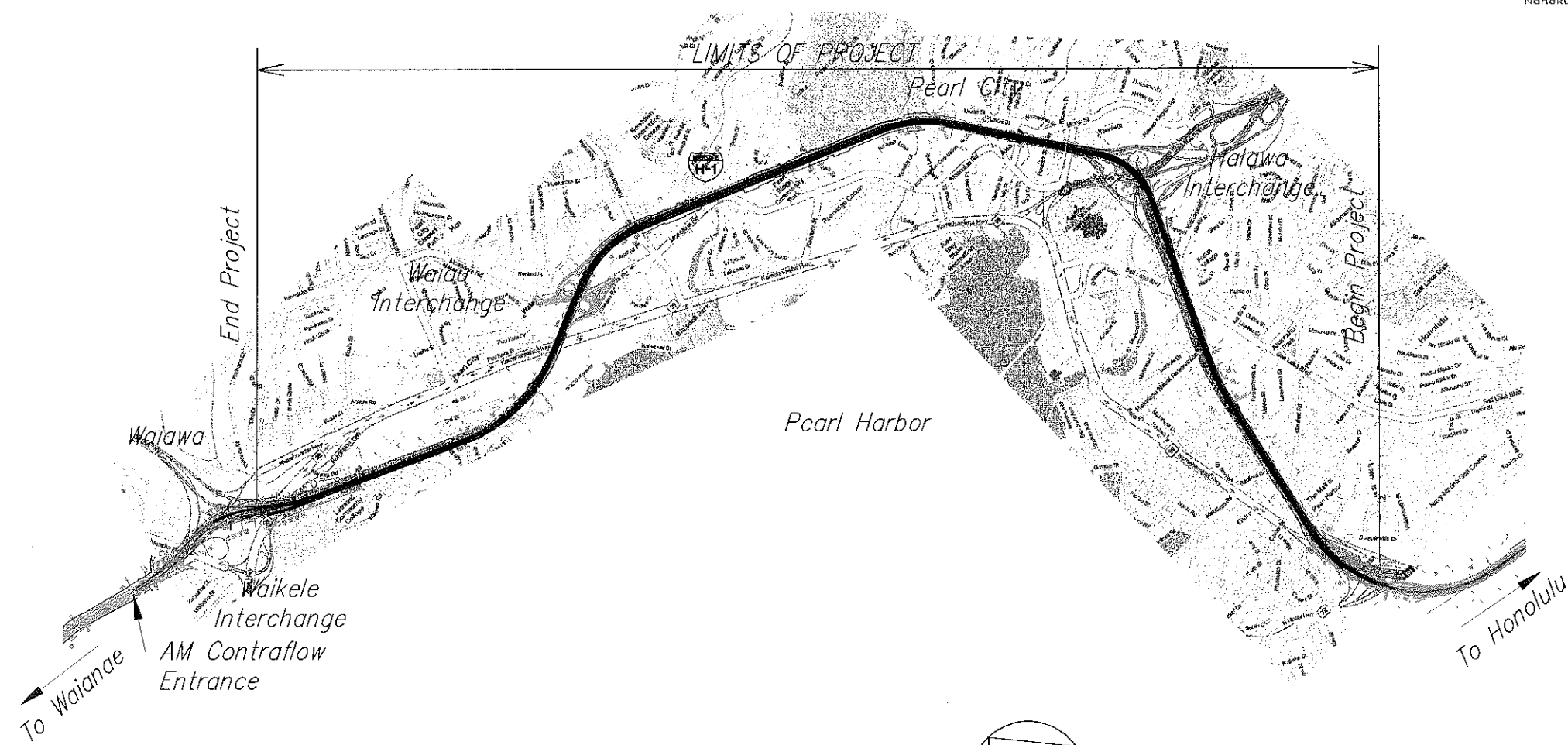
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-H1-1 (260)	2009	1	XX



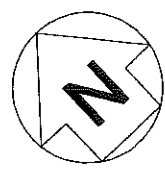
LOCATION OF PROJECT



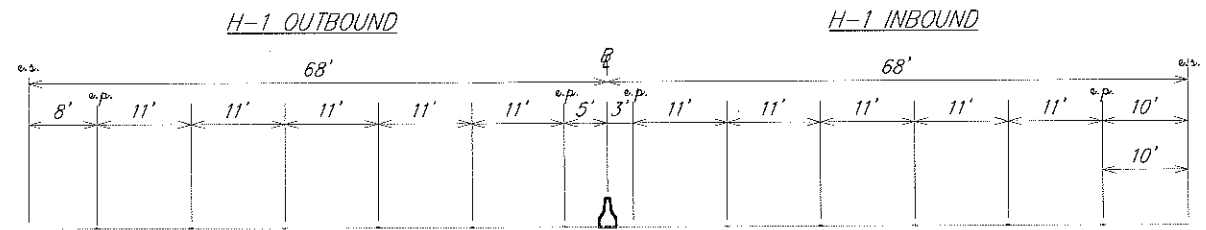
FEDERAL AID PROJECTS PREVIOUSLY CONSTRUCTED OR UNDER CONSTRUCTION



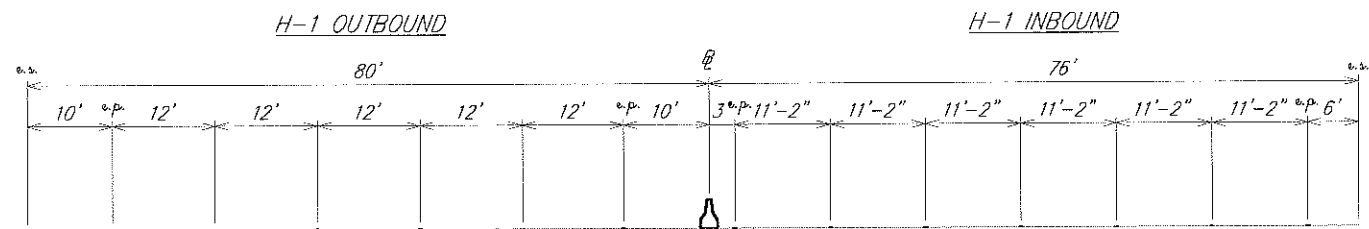
LAYOUT PLAN  
LENGTH OF PROJECT: 23.1 MILES



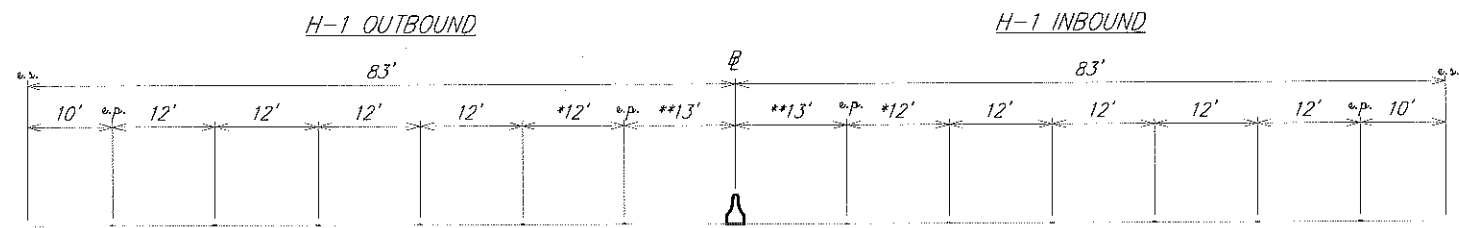
FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-H1-1(260)	2009		



REFERENCE SECTION - 1  
(Waiawa To Kaamilo Overpass)  
Scale: Not to Scale



REFERENCE SECTION - 2  
(Kaamilo Overpass To Kaimakani Overpass)  
Scale: Not to Scale



- Notes:
- \* Four (4) Lanes Through Halawa
  - \*\* Existing Median Transition @ Sta. 30+00±

REFERENCE SECTION - 3  
(Kaimakani Overpass To Radford Dr. Overpass)  
Scale: Not to Scale

Note:  
Existing sections provided for reference only, as sections within the limits provided may deviate from what is shown. The Contractor shall verify existing conditions.

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

EXISTING SECTIONS

INTERSTATE ROUTE H-1 PM  
Contraflow Lane, Phase 2  
Project No. NH-H1-1(260)

Scale: Not to Scale      Date: July 2009

SHEET No. X OF X SHEETS

DESIGNED BY	DATE
CHECKED BY	
NOTED BY	
APPROVED BY	

INDEX TO DRAWINGS	
SHEET NO.	DESCRIPTION
1	TITLE SHEET
2	STRUCTURAL NOTES
3	PEARL CITY VIADUCT SECTIONS
4	WAIMALU VIADUCT SECTIONS
5 - 8	TYPICAL DETAILS
9	KEY PLAN
10 - 13	PEARL CITY VIADUCT PRIORITY 1 DECK REPAIR PLAN
14	WAIMALU VIADUCT PRIORITY 1 DECK REPAIR PLAN
15 - 18	PEARL CITY VIADUCT PRIORITY 2 DECK REPAIR PLAN
19	WAIMALU VIADUCT PRIORITY 2 DECK REPAIR PLAN

STATE OF HAWAII

DEPARTMENT OF TRANSPORTATION

HIGHWAYS DIVISION

HONOLULU, HAWAII

PLANS FOR

INTERSTATE ROUTE H-1

PEARL CITY AND WAIMALU

VIADUCT IMPROVEMENTS, PHASE I

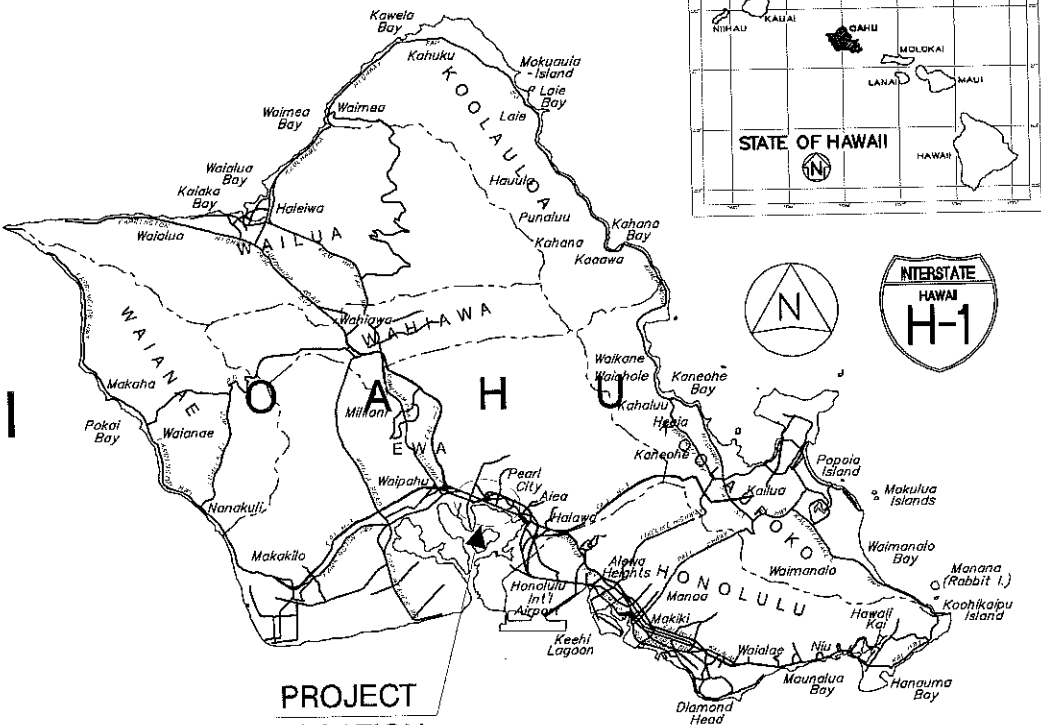
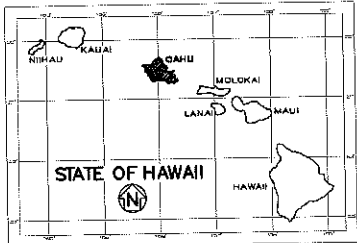
FEDERAL AID INTERSTATE

PROJECT NO. BR-H1-1(263)

DISTRICT OF EWA

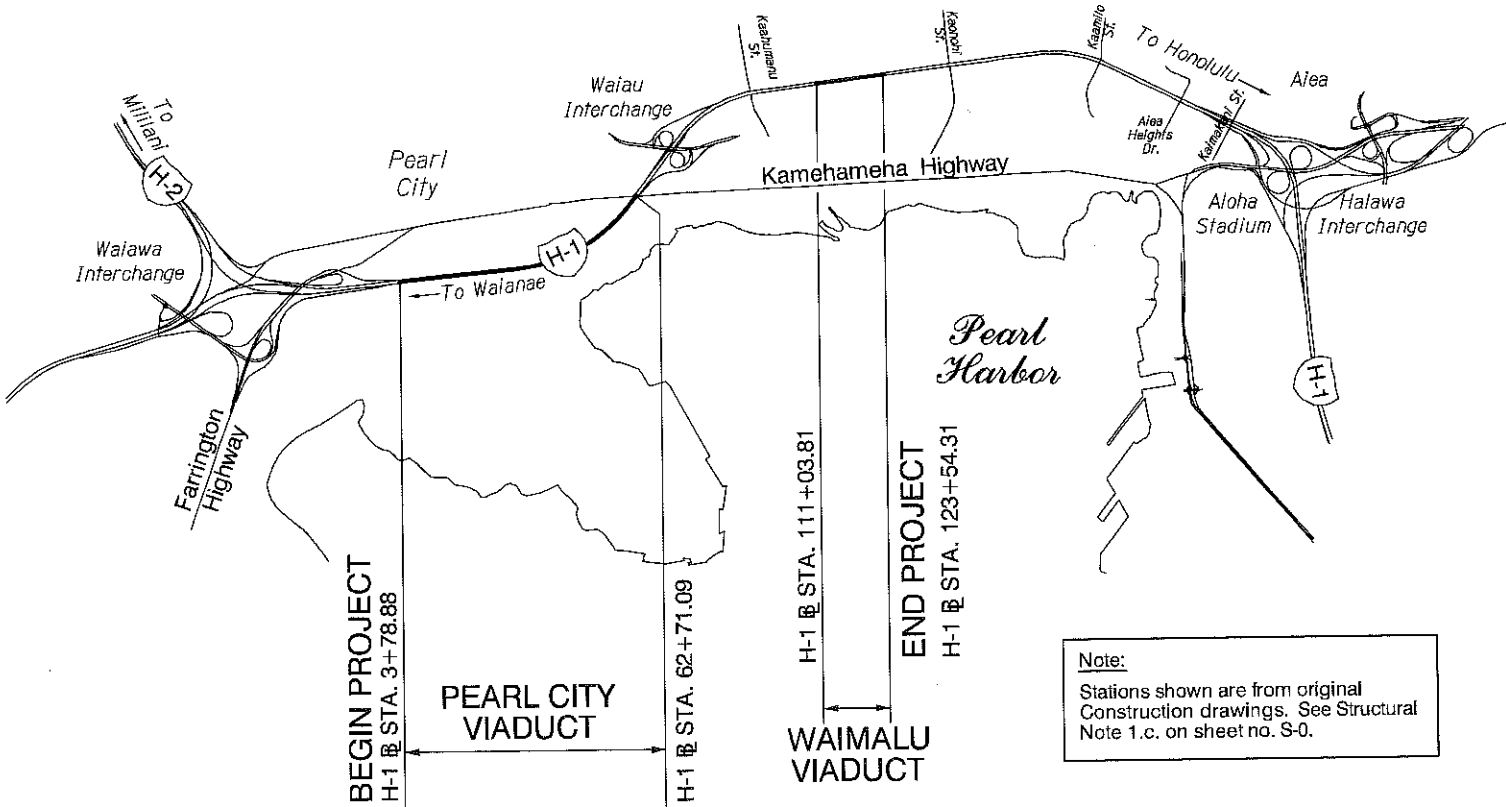
ISLAND OF OAHU

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BR-H1-1(263)	2009	1	19



PROJECT LOCATION

5 0 5 10 15  
SCALE IN MILES



DESIGN DESIGNATION (INBOUND ONLY)	
ADT (2008)	110,846
ADT (2030)	120,608
DHV	14,473
D	100/0
T	2.0 %
T <sub>24</sub>	3.0 %
V	60 M.P.H.

Note:  
Stations shown are from original  
Construction drawings. See Structural  
Note 1.c. on sheet no. S-0.



DEPARTMENT OF TRANSPORTATION STATE OF HAWAII	
APPROVED:	
DIR. OF TRANSPORTATION	DATE
SHEET NO. TO.1 OF 1	SHEETS

ORIGINAL PLAN	DATE
DESIGNED BY	
NOTED BY	
QUANTITIES BY	
CHECKED BY	

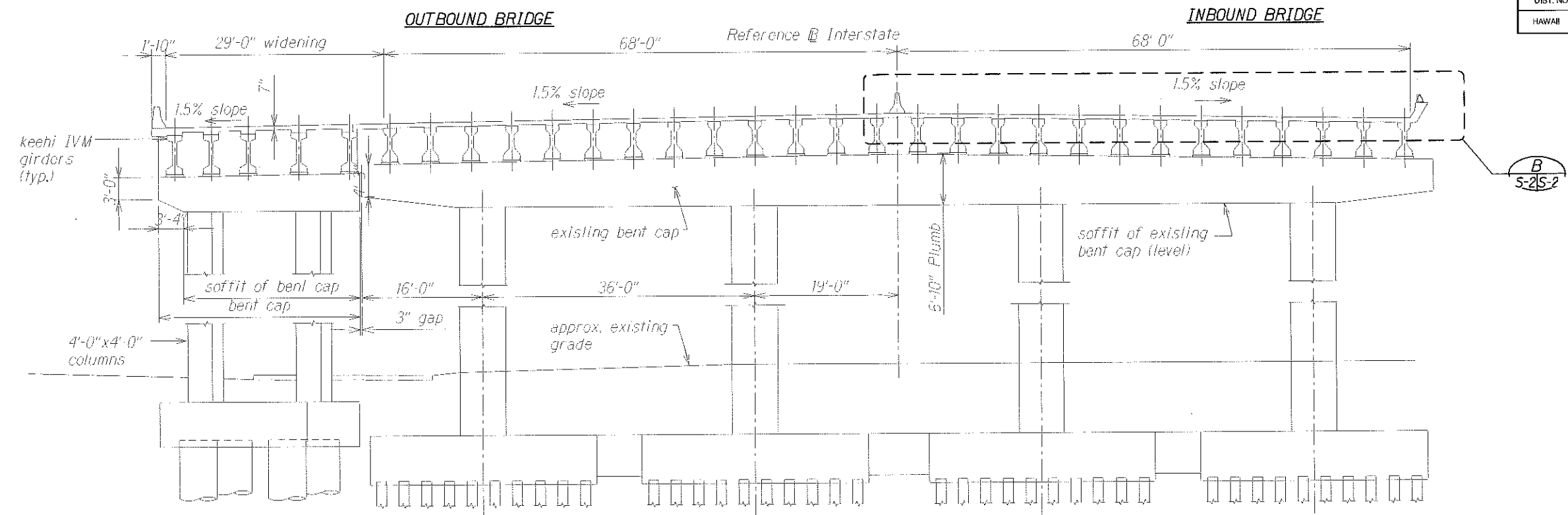
KSF, INC. HWY-DD 692-7575 DEC. 16, 2009  
DESIGNED BY P. S. & E. BY PHONE DATE

LOCATION MAP  
NOT TO SCALE

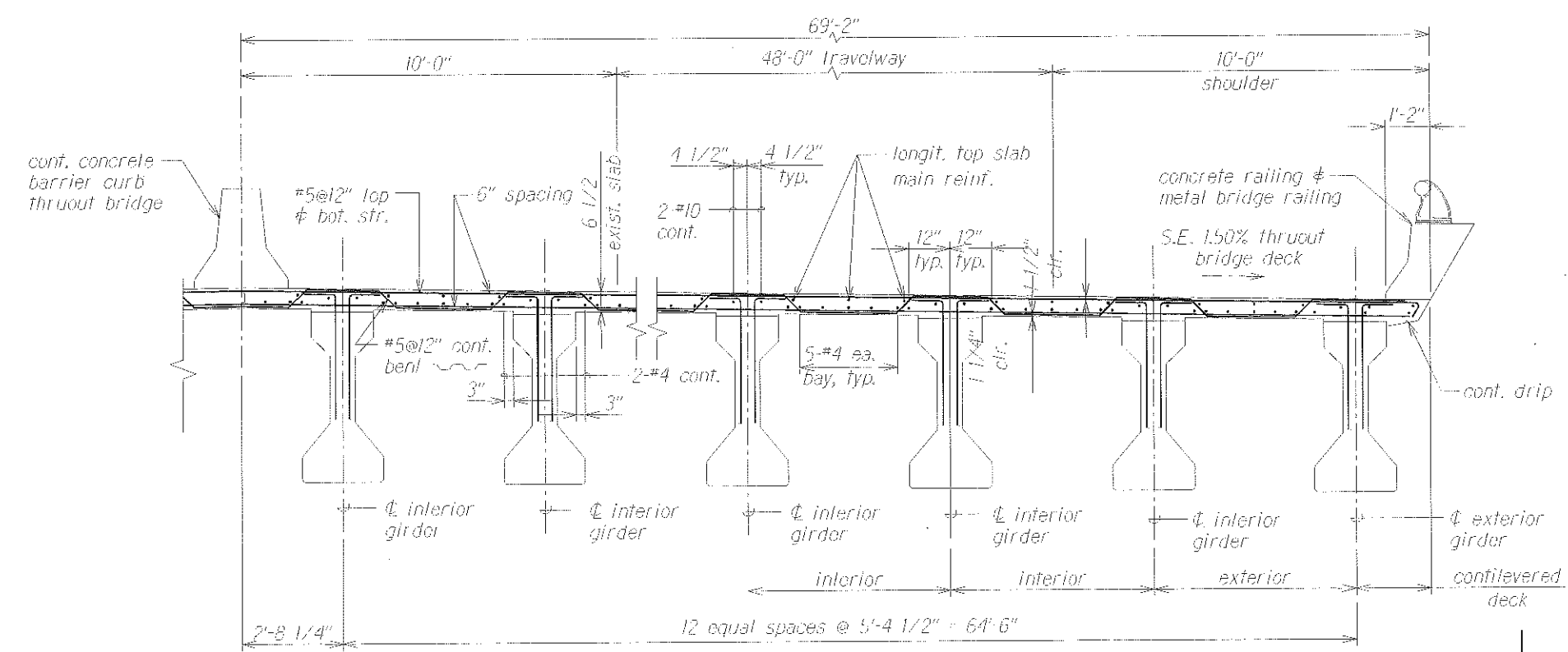




FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BR-HI-K263	2009	4	19



**SECTION\* AT WAIMALU VIADUCT**  
 Scale: 1/8" = 1'-0"  
 A  
 S-2 | S-2



**TYPICAL EXISTING\* DECK REINFORCING**  
**(SECTION PERPENDICULAR TO TRAFFIC LANES)**  
 Scale: 1/2" = 1'-0"  
 B  
 S-2 | S-2

\* As shown in original contract construction drawings, see Structural Note l.c. on sheet no. S-0.



STATE OF HAWAII  
 DEPARTMENT OF TRANSPORTATION  
 HIGHWAYS DIVISION  
**WAIMALU VIADUCT**  
**SECTIONS**  
**INTERSTATE ROUTE H-1**  
**PEARL CITY AND WAIMALU VIADUCT IMPROVEMENTS, PH 1**  
 Fed. Aid Proj. No. BR-HI-K263

Scale: As Shown Date: Dec. 16, 2009

SHEET No. S-2 OF 18 SHEETS

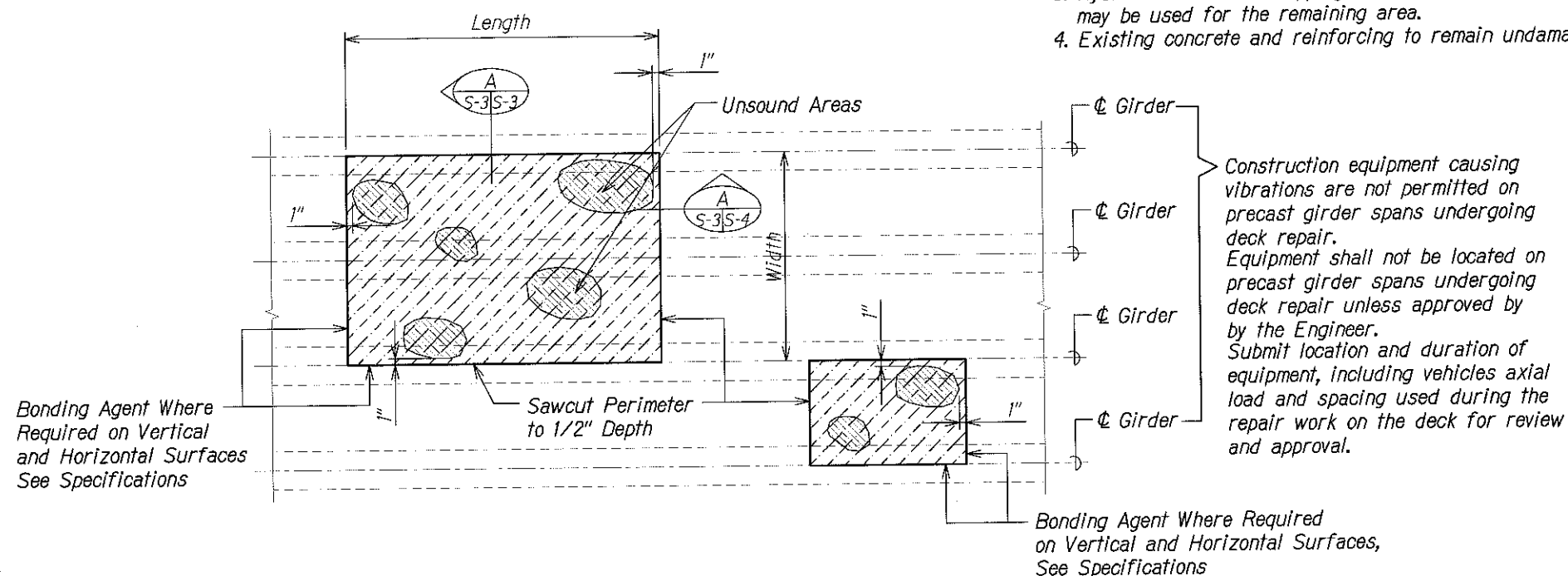
DESIGNED BY	DATE
CHECKED BY	
NOTED BY	
ORIGINAL PLAN	

DATE	REVISION
------	----------

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BR-HI-11(263)	2009	5	19

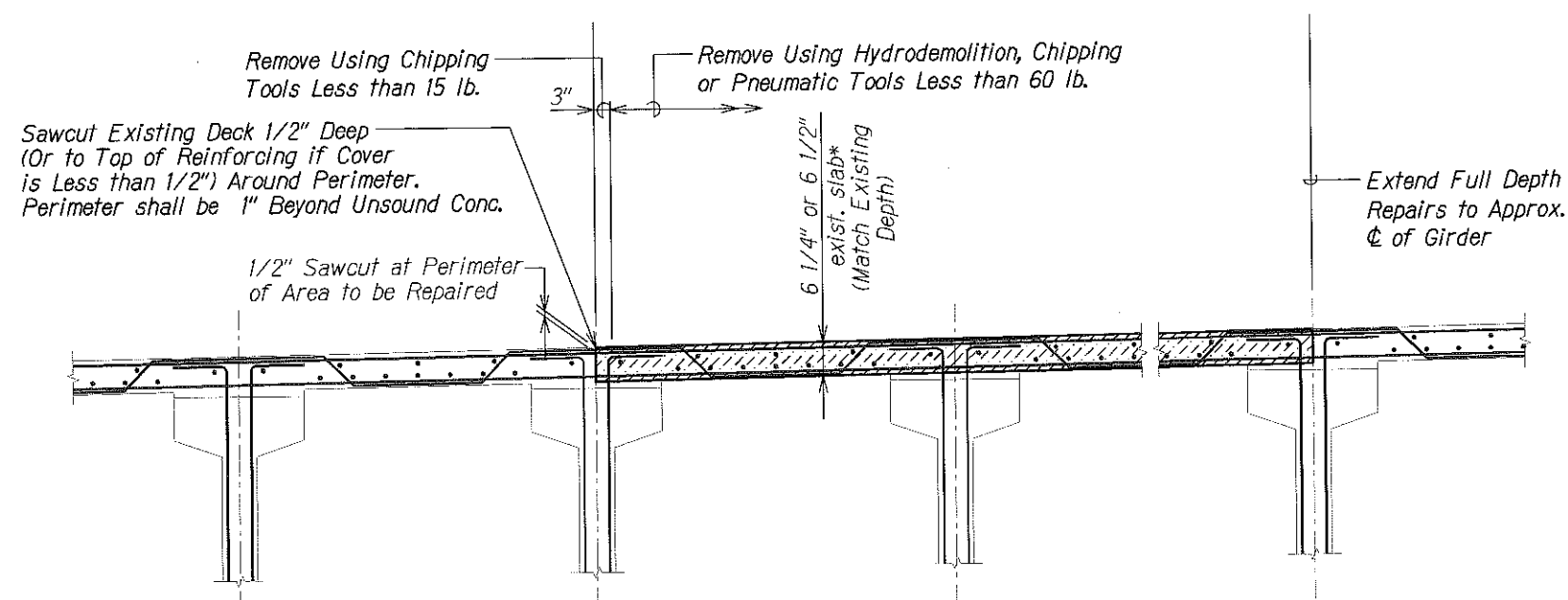
# Full Depth Slab Demolition Procedure:

1. Sawcut perimeter to a depth of 1/2" or to top of transverse reinforcing (if concrete cover is less than 1/2"). Do not damage existing reinforcing steel.
2. Use chipping hammers less than 15 lb. to remove concrete within 3 horizontal inches of the repair perimeter.
3. Hydro demolition or chipping tools no heavier than 60# may be used for the remaining area.
4. Existing concrete and reinforcing to remain undamaged.



## FULL DEPTH SLAB DECK REPAIR PLAN

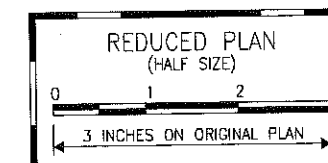
Scale: Not to Scale



## FULL DEPTH SLAB REPAIR SECTION PERPENDICULAR TO TRAFFIC LANES

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

\* As shown in original contract construction drawings, See Structural Note 1.c. on sheet No. S-0.



STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

**TYPICAL DETAILS**

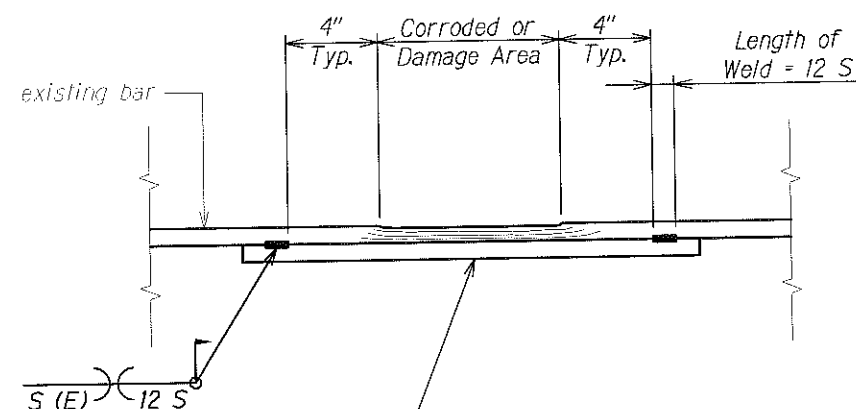
**INTERSTATE ROUTE H-1**  
**PEARL CITY AND WAIMALU VIADUCT IMPROVEMENTS, PH. 1**  
**Fed. Aid Proj. No. BR-HI-11(263)**

Scale: As Shown Date: Dec. 16, 2009

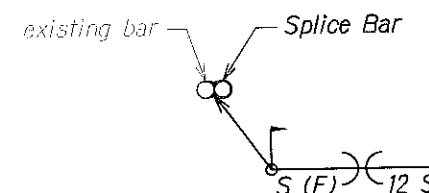
SHEET No. S-3 OF 18 SHEETS



FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BR-HI-1(263)	2009	6	19



Splice Bar Identical to Existing Bar and Same Horiz. Plane as Existing Rebar



### SPLICE BAR

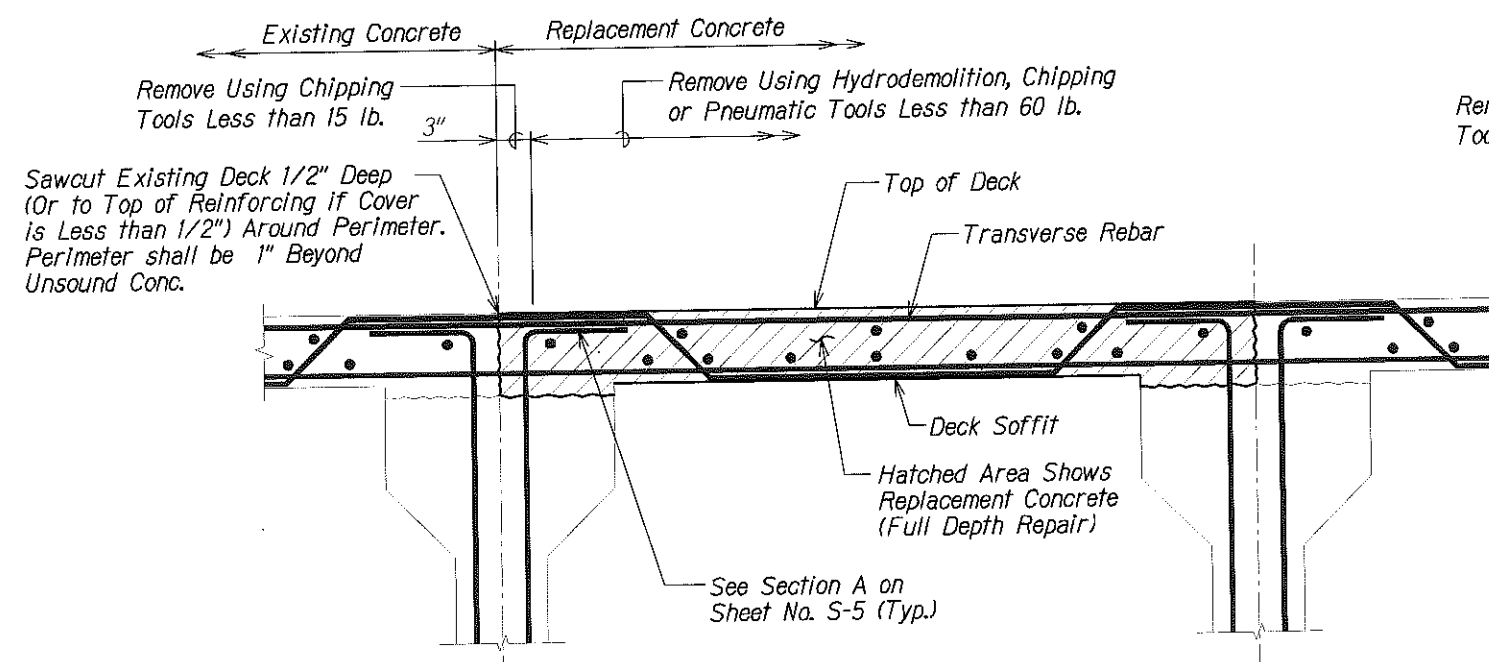
#### Notes:

1. Splice bars shall be direct lap joint bars in contact with double-flare-V-groove welds. Where  $S$  = radius of reinforcing bar and  $E$  = Effective weld size = 0.65.
2. New reinforcing steel shall be ASTM A 706. All welded reinforcing steel shall be ASTM A 706 where welded connections are required.
3. All welding shall be done in accordance with the reinf. Steel Welding Code AWS D1.4 and Specification Section 602.
4. Repair material and procedures shall be accepted by the Engineer before use.

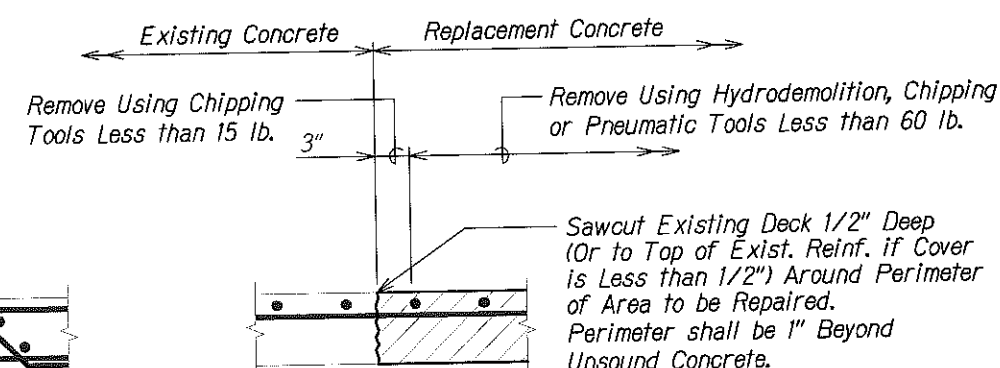
### PLAN VIEW REINFORCING BAR LAP WELDS SPLICE DETAIL

APPLIES TO FULL AND PARTIAL DEPTH REPAIR

S-4 S-4



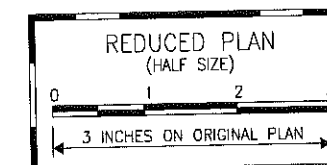
### SECTION PERPENDICULAR TO TRAFFIC LANES



Note:  
Slab Bottom Reinforcing Not Shown

### SECTION PARALLEL TO TRAFFIC LANES

A S-3 S-4



STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

**TYPICAL DETAILS**

**INTERSTATE ROUTE H-1**  
**PEARL CITY AND WAINALU VIADUCT IMPROVEMENTS, PH 1**  
**Fed. Aid Proj. No. BR-HI-1(263)**

Scale: As Shown Date: Dec. 16, 2009

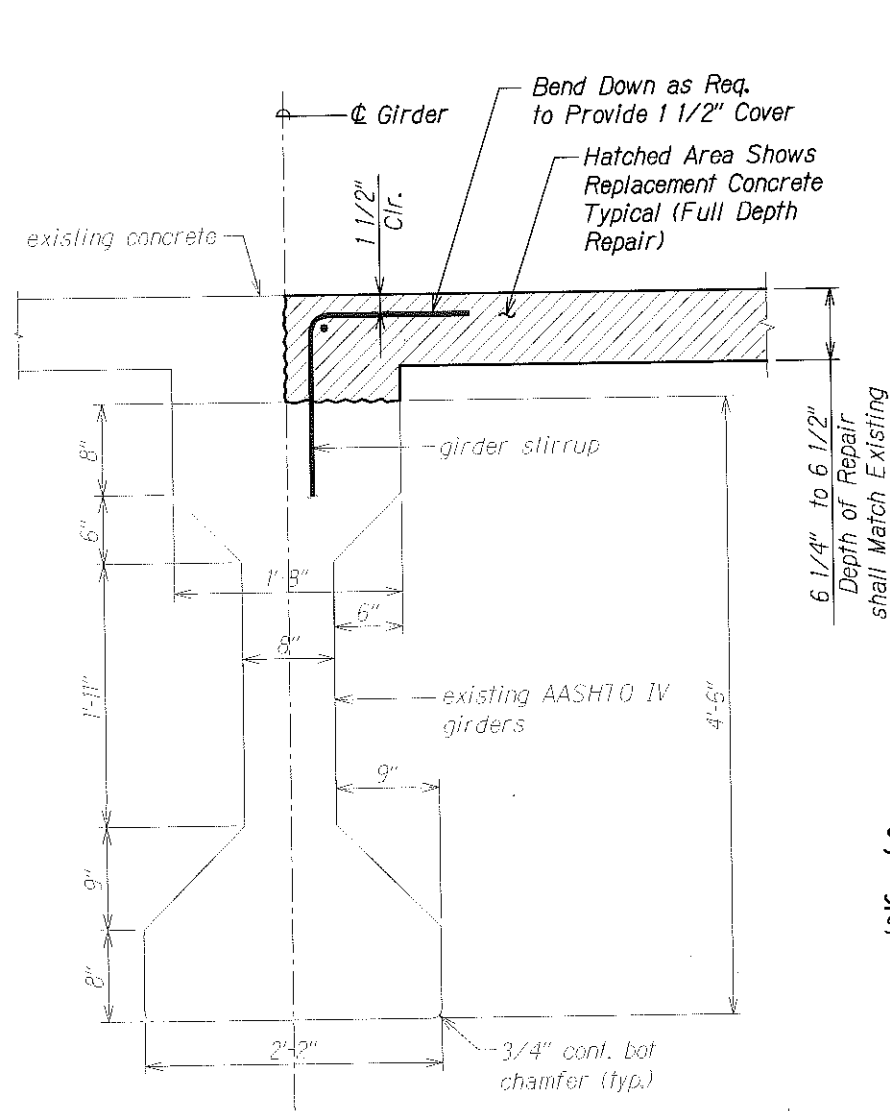
SHEET No. S-4 OF 18 SHEETS

### FULL DEPTH REPAIR DETAILS

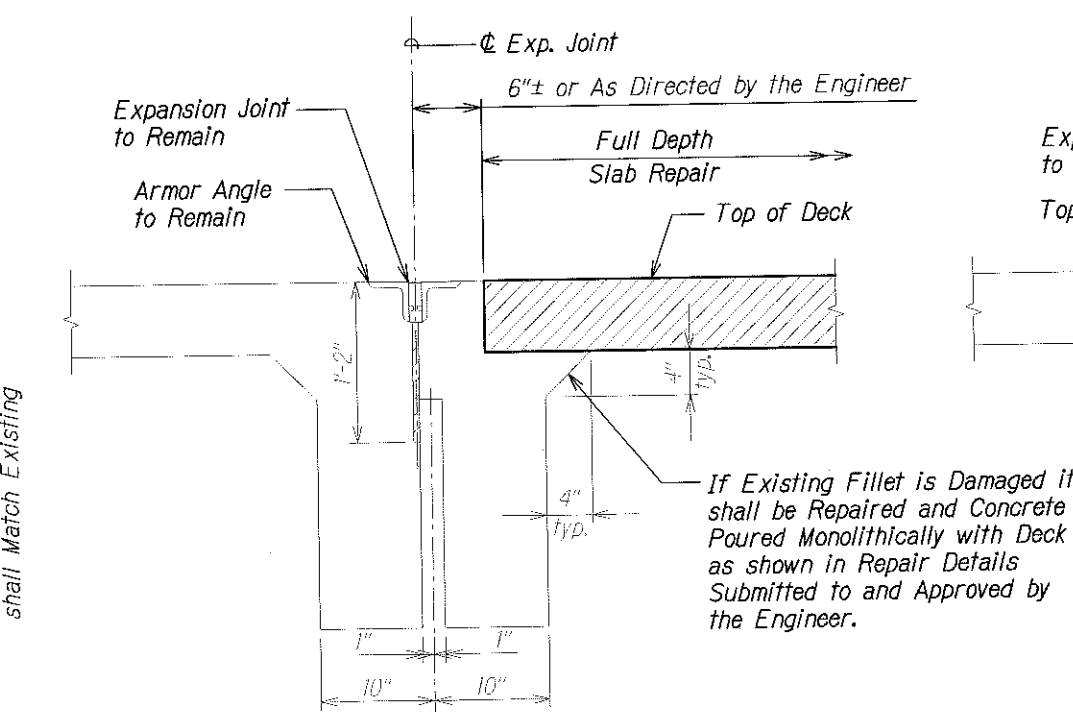
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DATE REVISION

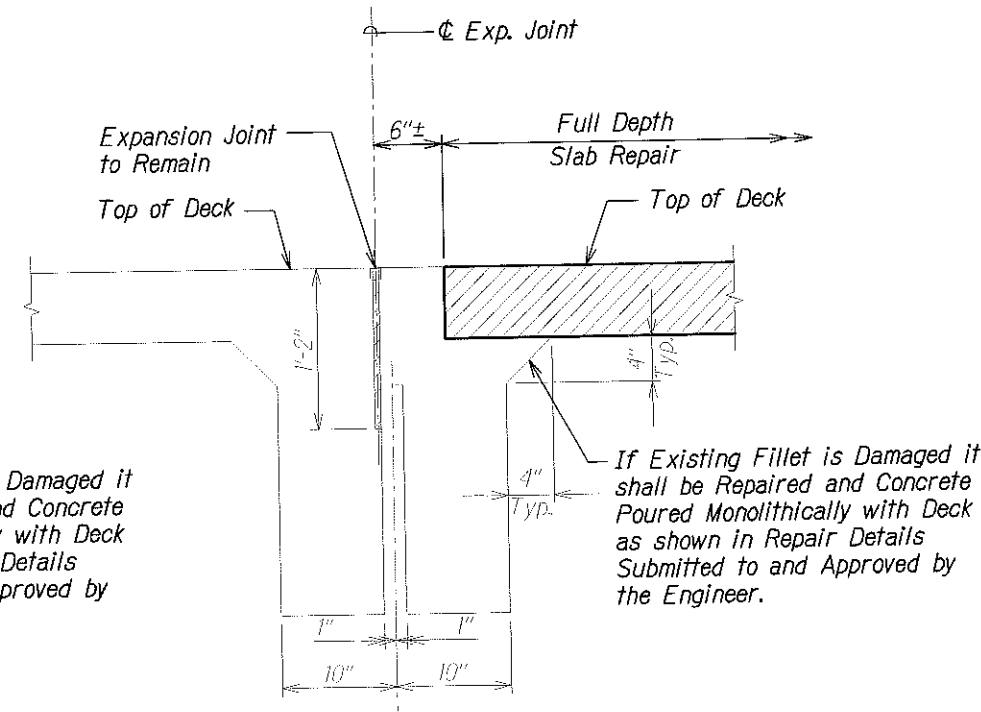
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BR-HI-1(263)	2009	7	19



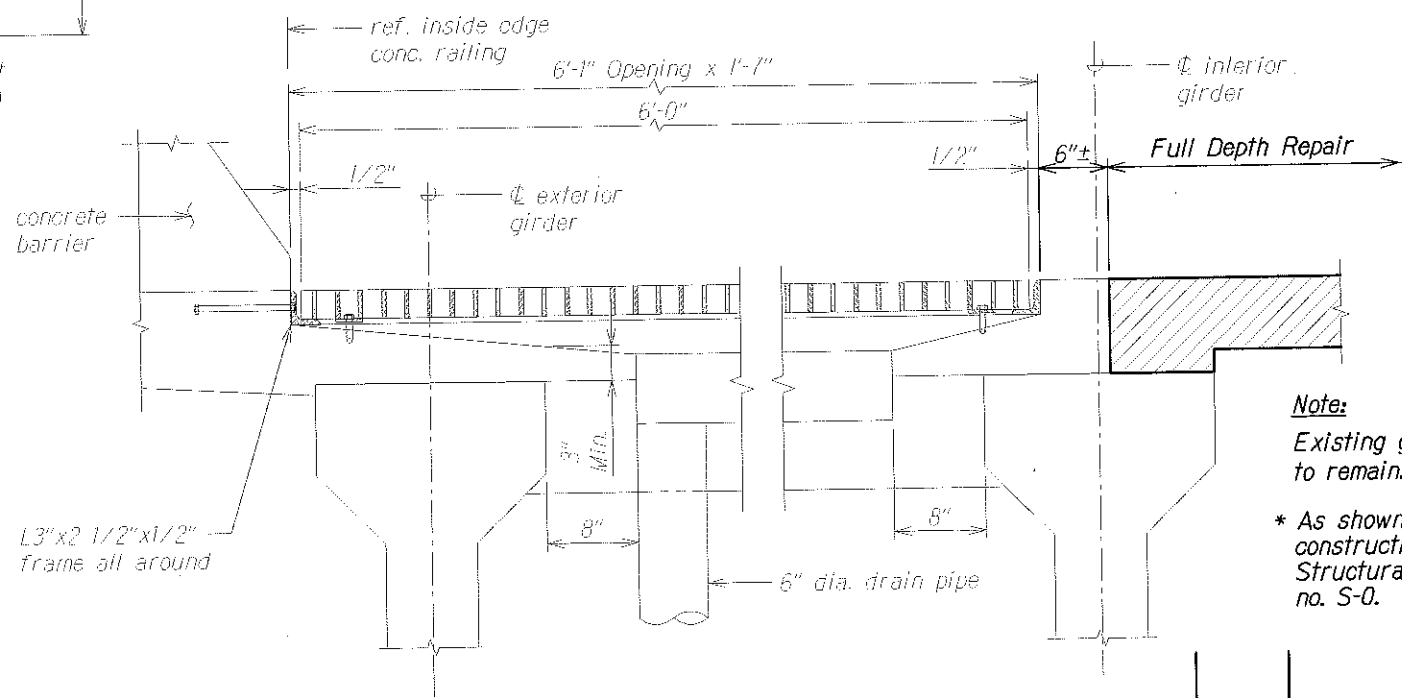
TYPICAL AASHTO IV GIRDER SECTION  
Scale: 1 1/2" = 1'-0"



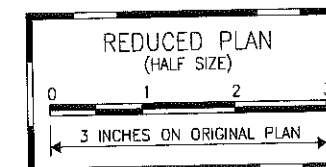
SECTION AT EXPANSION JOINTS WITH ARMOR ANGLE  
Scale: 1 1/2" = 1'-0"



SECTION AT EXPANSION JOINTS WITHOUT ARMOR ANGLE  
Scale: 1 1/2" = 1'-0"



SECTION AT EXISTING\* DRAIN INLETS  
Scale: 1 1/2" = 1'-0"



Note:  
Existing grates and frames to remain.

\* As shown in original contract construction drawings, see Structural Note 1.c. on sheet no. S-0.

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

DETAILS  
INTERSTATE ROUTE H-1  
PEARL CITY AND WAIMALU VIADUCT IMPROVEMENTS, PH 1  
Fed. Aid Proj. No. BR-HI-1(263)

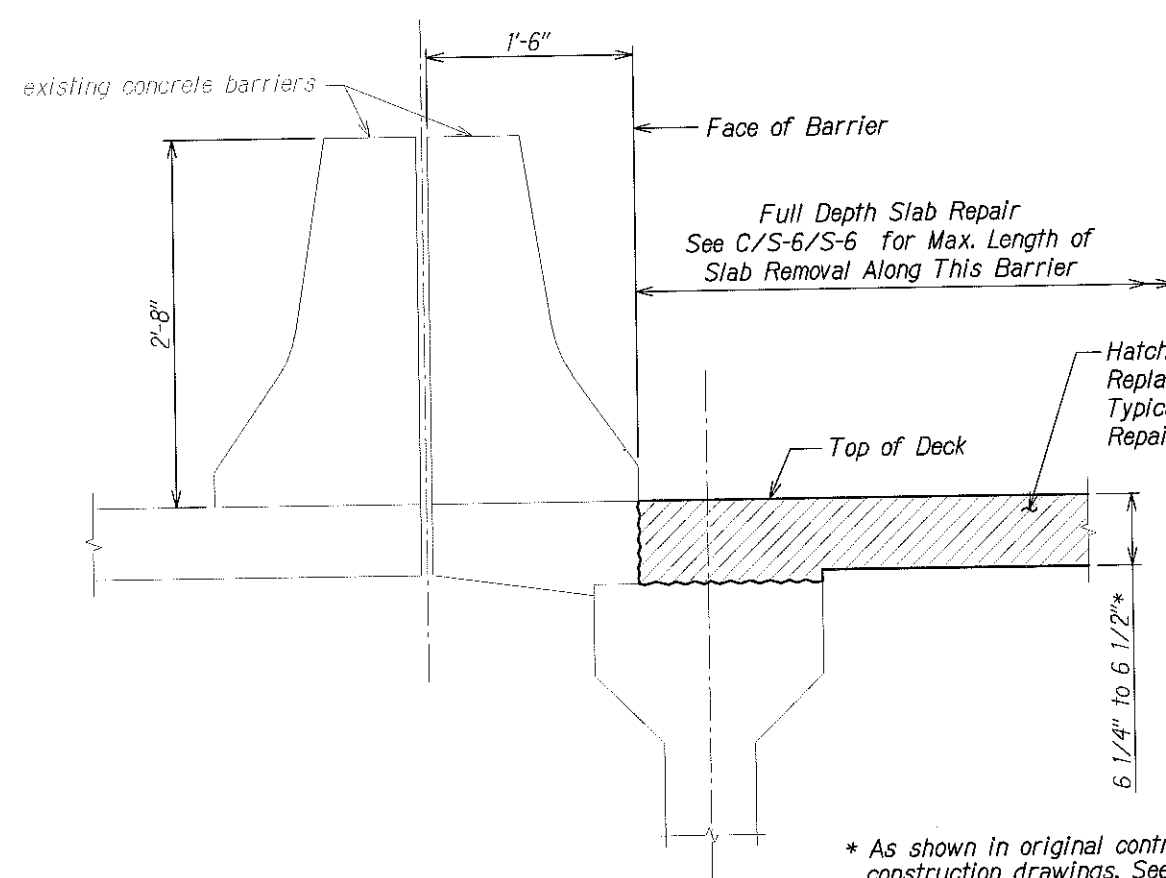
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SHEET No. S-5 OF 18 SHEETS

Date: Dec. 16, 2009

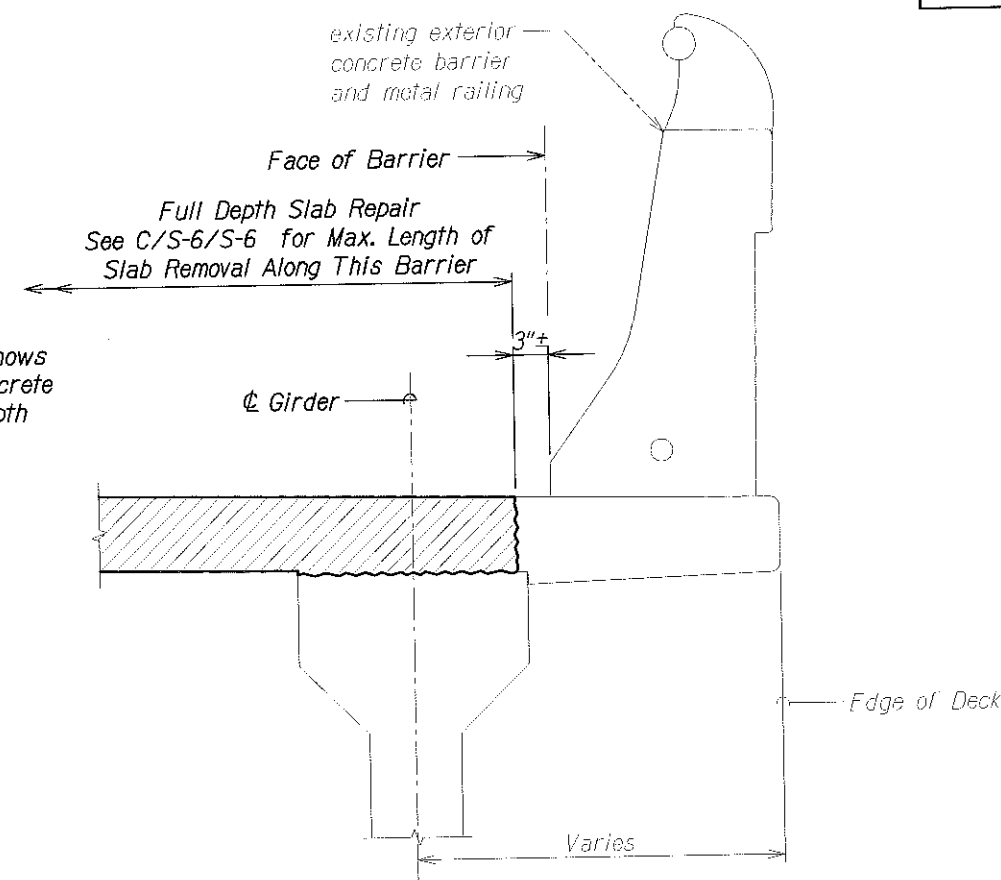
DATE	DESIGNED BY	CHECKED BY
DESIGNED BY	DESIGNED BY	DESIGNED BY
DESIGNED BY	DESIGNED BY	DESIGNED BY
DESIGNED BY	DESIGNED BY	DESIGNED BY
DESIGNED BY	DESIGNED BY	DESIGNED BY
DESIGNED BY	DESIGNED BY	DESIGNED BY
DESIGNED BY	DESIGNED BY	DESIGNED BY
DESIGNED BY	DESIGNED BY	DESIGNED BY
DESIGNED BY	DESIGNED BY	DESIGNED BY
DESIGNED BY	DESIGNED BY	DESIGNED BY

DATE	REVISION
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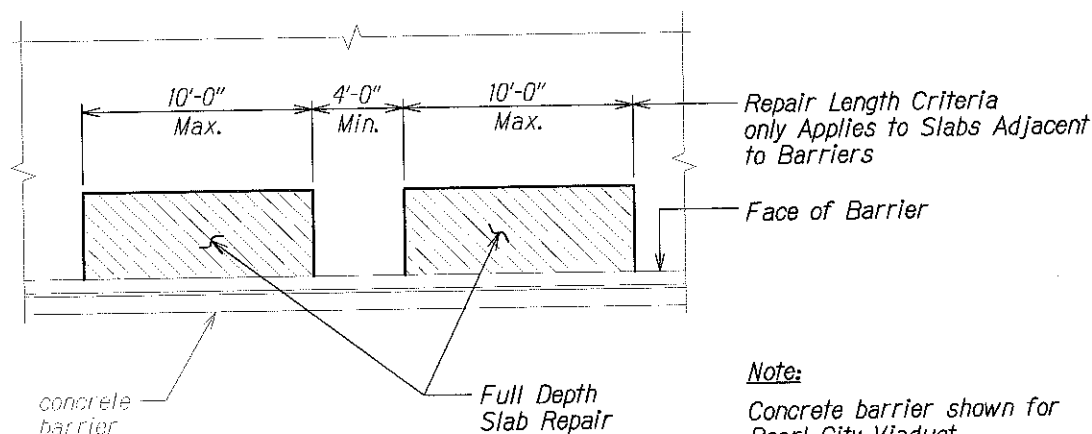
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BR-HI-1(263)	2009	8	19



**TYPICAL SECTION  
CONCRETE BARRIER CURB** A  
Scale: 1 1/2" = 1'-0" S-1 | S-6

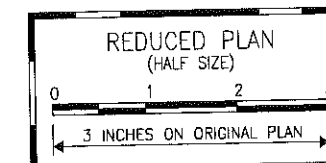


**TYPICAL SECTION  
EXTERIOR BARRIER** B  
Scale: 1 1/2" = 1'-0" S-1 | S-6



**PLAN** C  
Not to scale S-6 | S-6

**Note:**  
Concrete barrier shown for Pearl City Viaduct. Details shown are similar for Waimalu Viaduct.



STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

**TYPICAL DETAILS**

**INTERSTATE ROUTE H-1**

**PEARL CITY AND WAIMALU VIADUCT IMPROVEMENTS, PH 1**

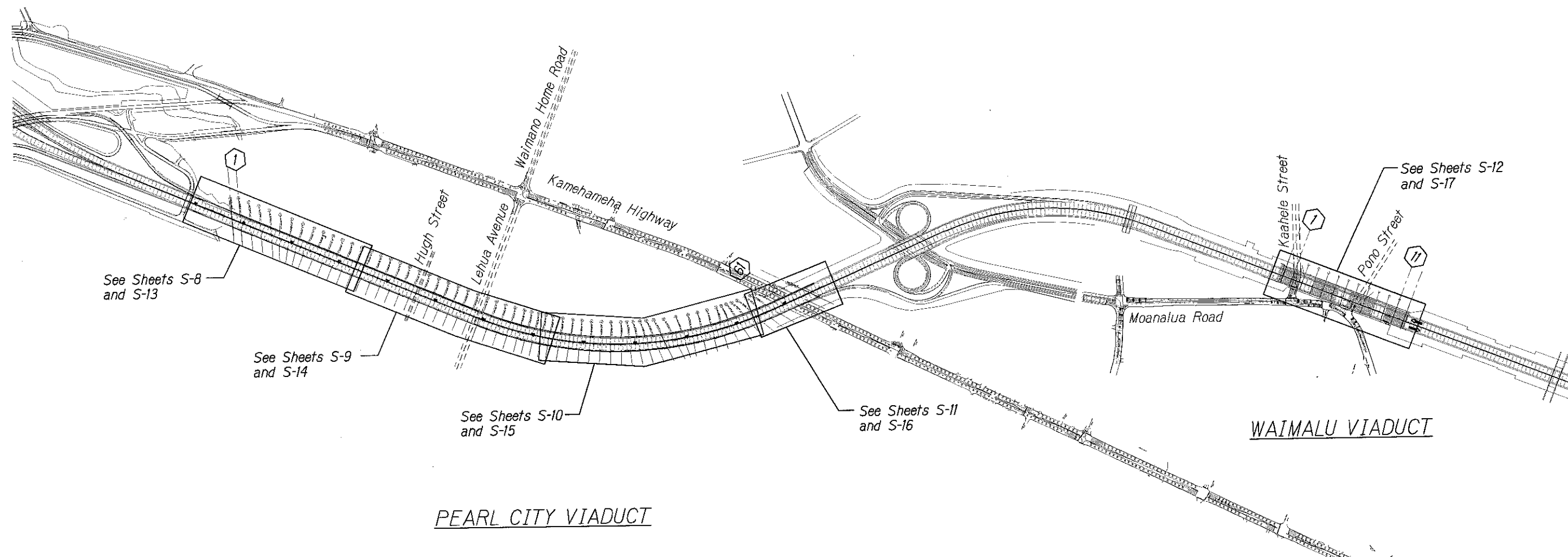
**Fed. Aid Proj. No. BR-HI-1(263)**

Scale: As Shown Date: Dec. 16, 2009

SHEET No. S-6 OF 18 SHEETS

DATE	REVISION

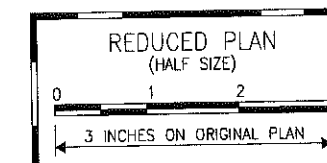
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BR-HI-1(263)	2009	9	19



PEARL CITY VIADUCT

WAIMALU VIADUCT

**KEY PLAN**  
Not to scale



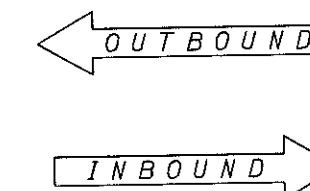
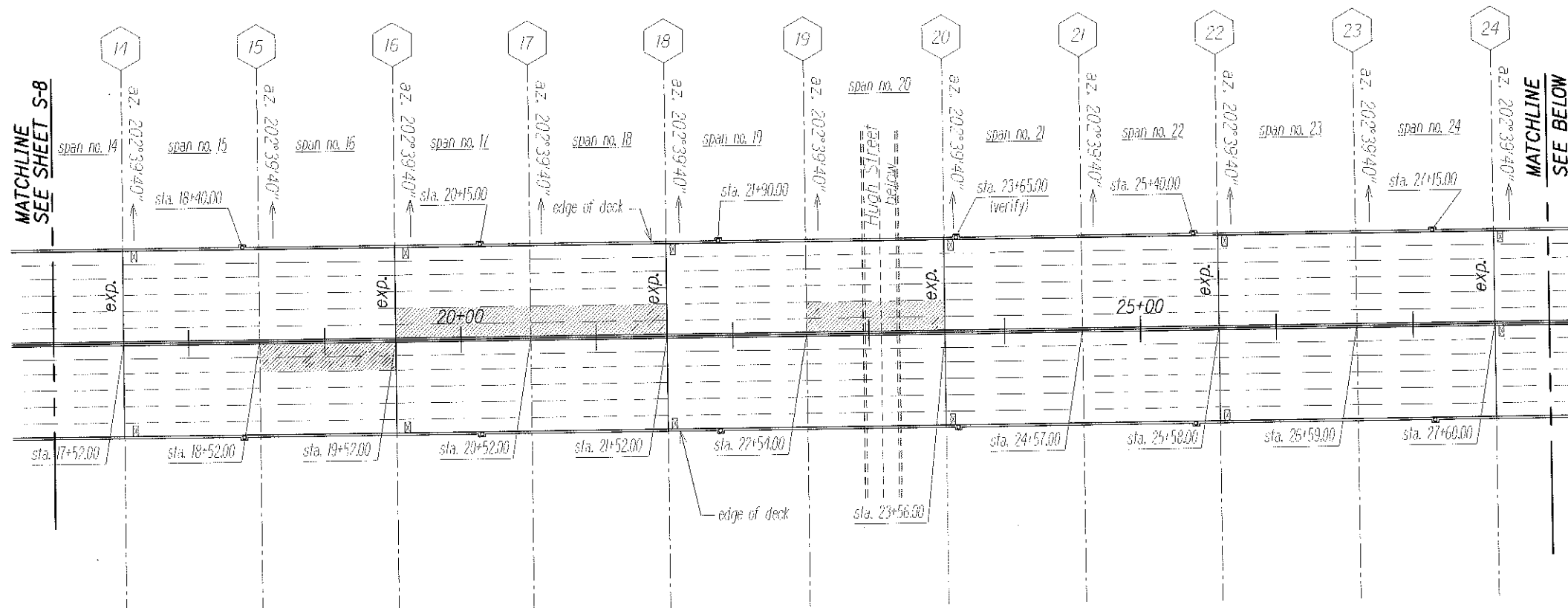
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION	
<b>KEY PLAN</b>	
<b>INTERSTATE ROUTE H-1</b>	
<b>PEARL CITY AND WAIMALU VIADUCT IMPROVEMENTS, PH I</b>	
<b>Fed. Aid Proj. No. BR-HI-1(263)</b>	
Scale: As Shown	Date: Dec. 16, 2009
SHEET No. S-7 OF 18 SHEETS	

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

DATE	REVISION



FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BR-HI-1(263)	2009	11	19

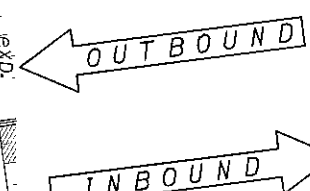
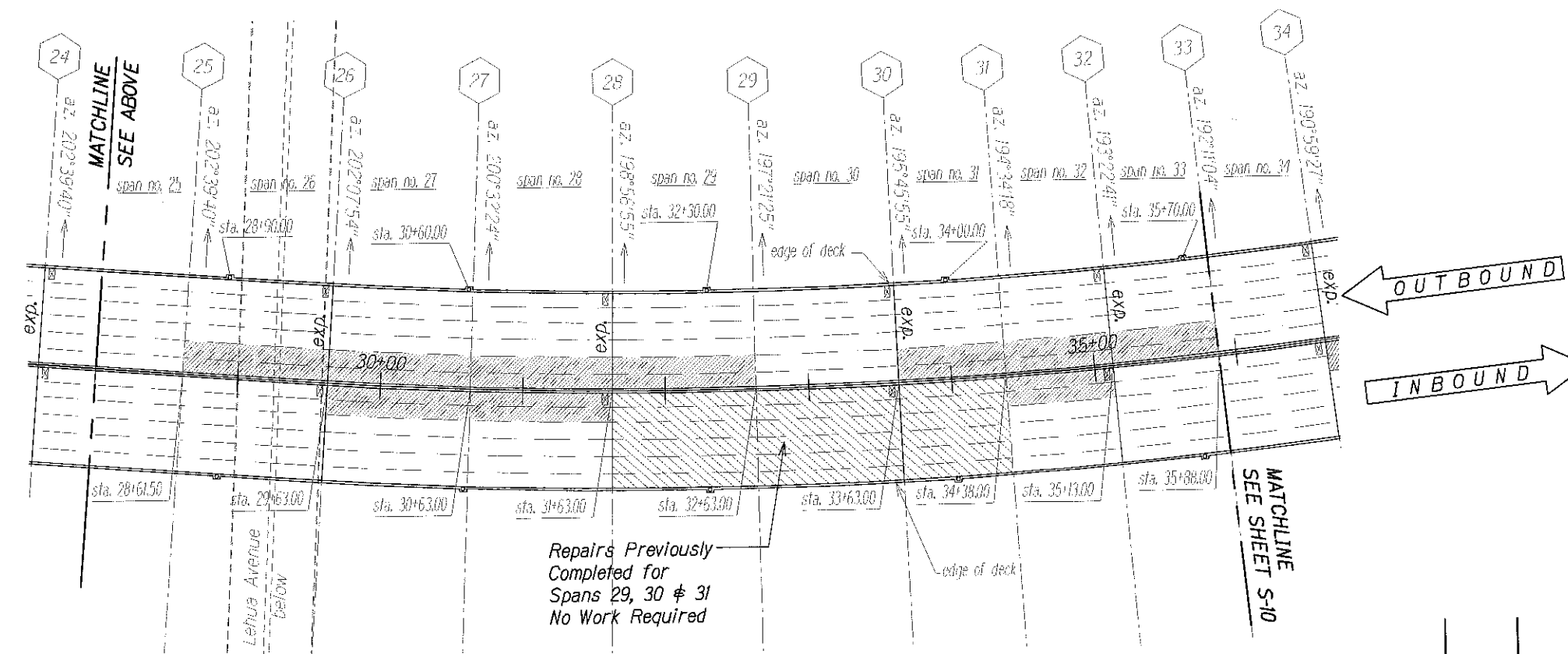


**Legend:**

- General area to be repaired  
See Note 1.d on Sht. S-0.
- exp. Expansion Joint

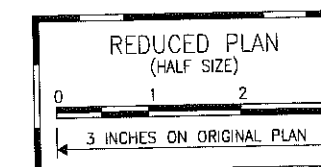
**Note:**

Stations and azimuths shown are from original Construction drawings, see Structural Note 1.c. on sheet no. S-0.



Repairs Previously Completed for Spans 29, 30 & 31  
No Work Required

**PRIORITY 1 DECK REPAIR - PLAN**  
Scale: 1" = 50'-0"



STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

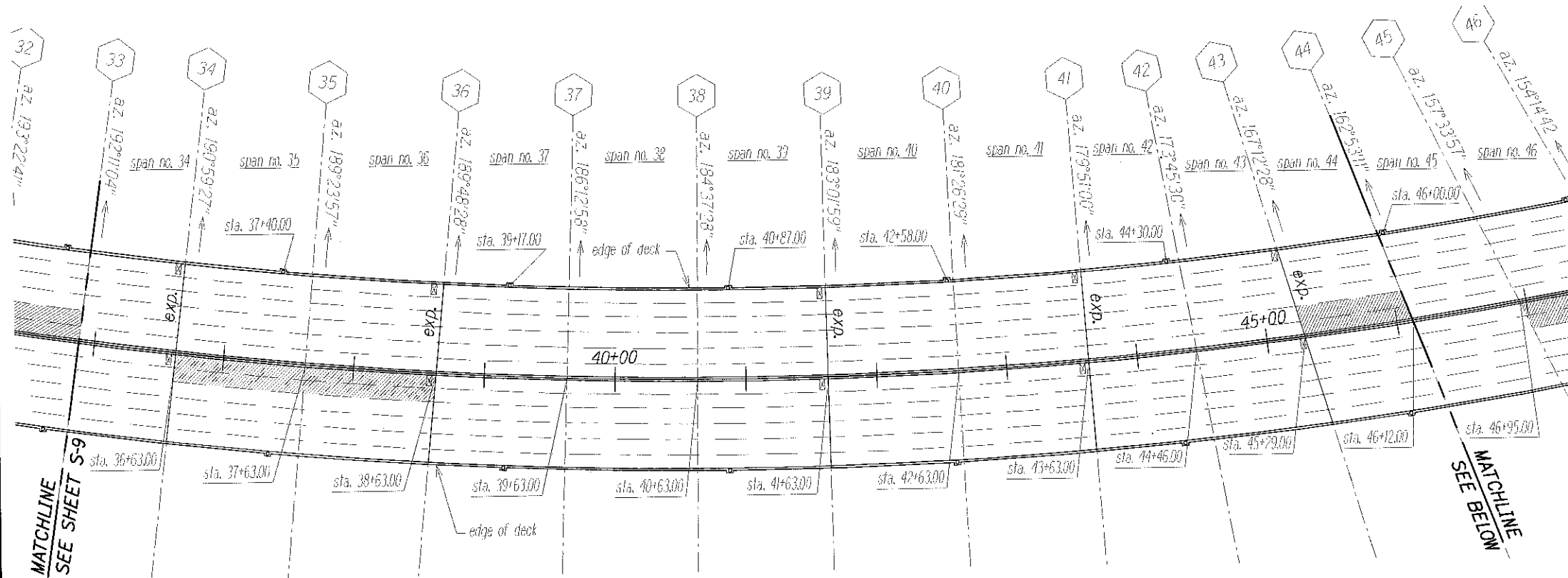
**PEARL CITY VIADUCT**  
**PRIORITY 1 DECK REPAIR - PLAN**  
**INTERSTATE ROUTE HI**  
**PEARL CITY AND WAIMALU VIADUCT IMPROVEMENTS, PH. 1**  
**Fed. Aid Proj. No. BR-HI-1(263)**

Scale: As Shown      Date: Dec. 16, 2009

SHEET No. S-9 OF 18 SHEETS

DATE	REVISION

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BR-HI-1(263)	2009	12	19

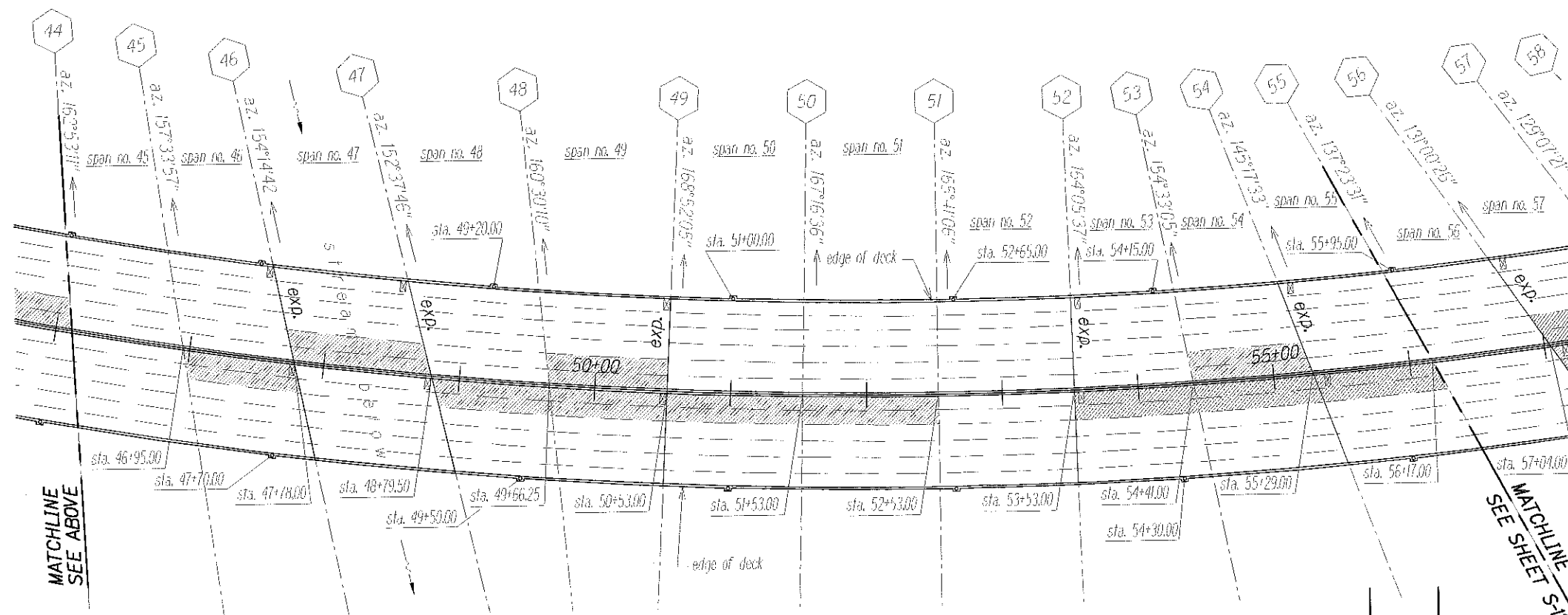


**Legend:**

General area to be repaired  
See Note 1.d on Sht. S-0.

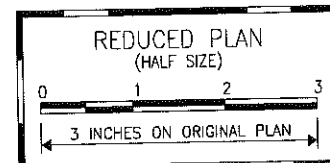
Expansion Joint

**Note:**  
Stations and azimuths shown are from original Construction drawings, see Structural Note 1.c. on sheet no. S-0.



**OUTBOUND**

**INBOUND**

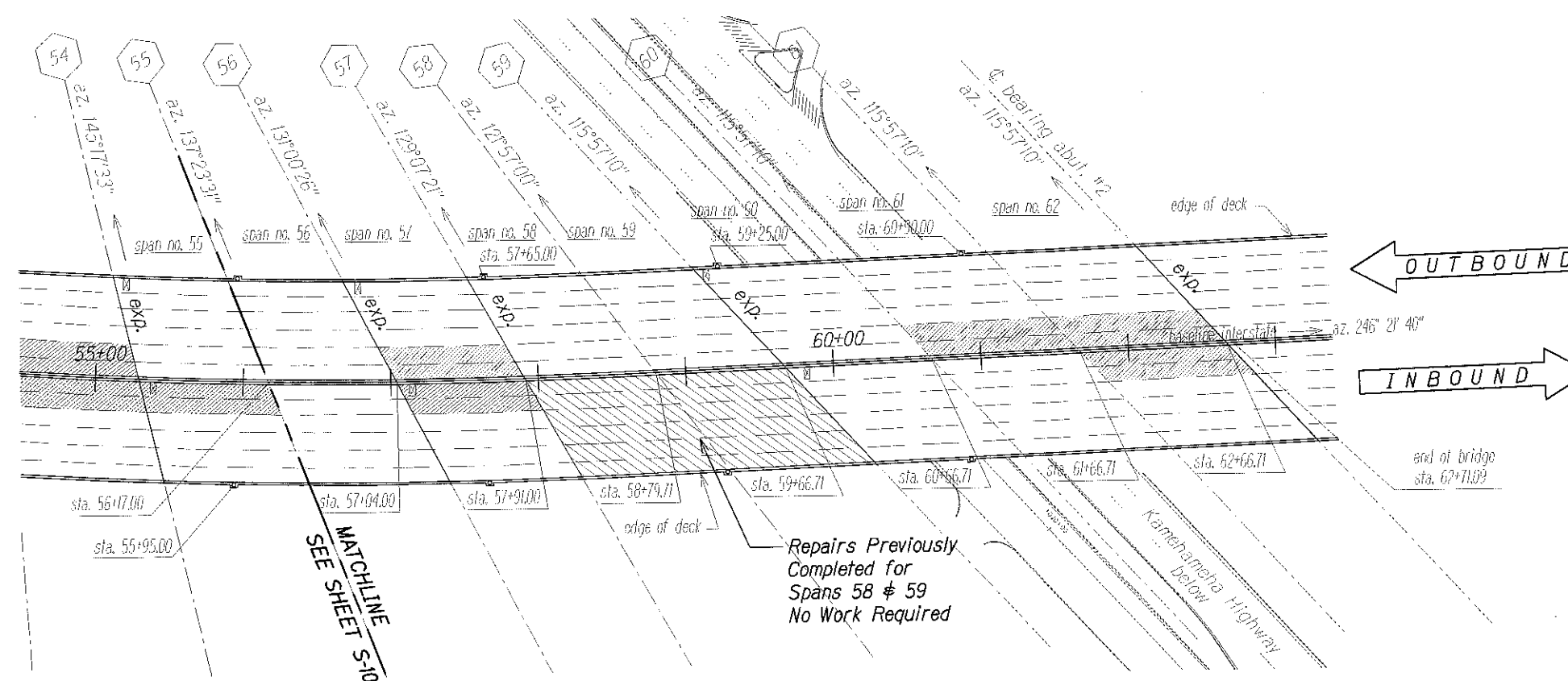


# **PRIORITY 1 DECK REPAIR - PLAN** Scale: 1" = 50'-0"

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION  
**PEARL CITY VIADUCT**  
**PRIORITY 1 DECK REPAIR - PLAN**  
**INTERSTATE ROUTE H-1**  
**PEARL CITY AND WAIMALU VIADUCT IMPROVEMENTS, PH 1**  
Fed. Aid Proj. No. BR-HI-1(263)  
Scale: As Shown Date: Dec. 16, 2009  
SHEET No. S-10 OF 18 SHEETS

DATE	REVISION
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FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BR-HI-1(263)	2009	13	19



**Legend:**

General area to be repaired  
See Note 1.d on Sht. S-0.

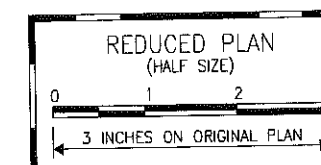
Expansion Joint

**Note:**

Stations and azimuths shown are from original Construction drawings, see Structural Note 1.c. on sheet no. S-0.

**PRIORITY 1 DECK REPAIR - PLAN**

Scale: 1" = 50'-0"



STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION  
**PEARL CITY VIADUCT**  
**PRIORITY 1 DECK REPAIR - PLAN**  
**INTERSTATE ROUTE H-1**  
**PEARL CITY AND WAIMALU VIADUCT IMPROVEMENTS, PH 1**  
**Fed. Aid Proj. No. BR-HI-1(263)**

Scale: As Shown Date: Dec. 16, 2009

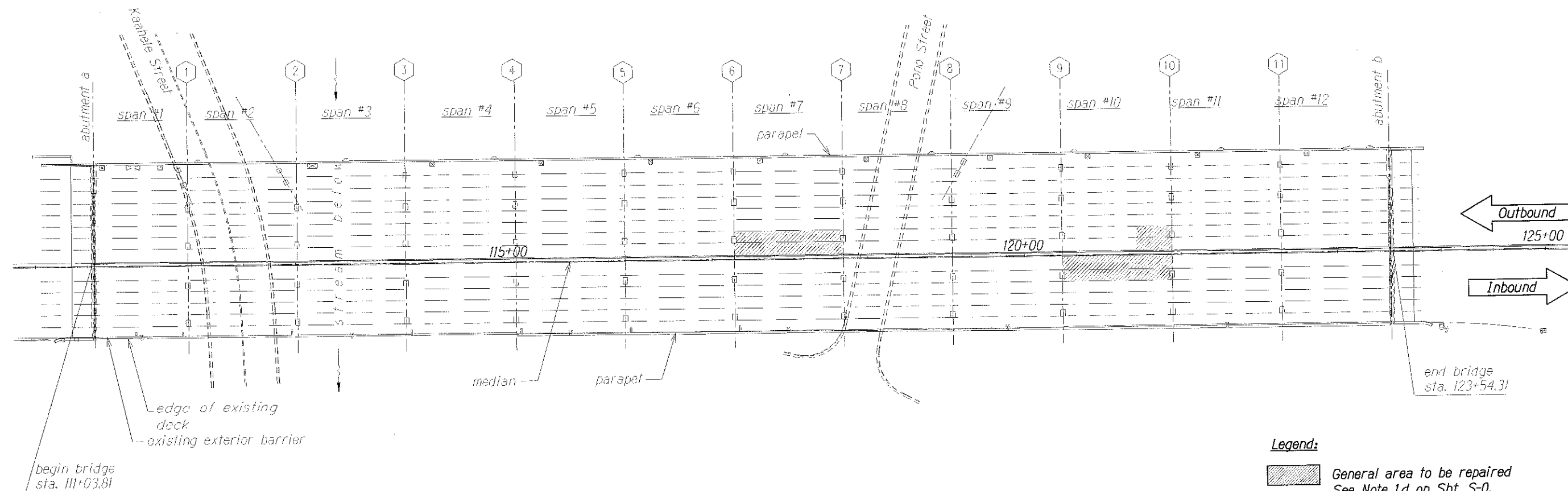
SHEET No. S-11 OF 18 SHEETS

ORIGINAL PLAN	DATE
DESIGNED BY	
TRACED BY	
CHECKED BY	
NOTED BY	
DATE	

DATE	REVISION



FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BR-HI-1(263)	2009	14	19



**PRIORITY 1 DECK REPAIR - PLAN**  
 Scale: 1" = 50'-0"

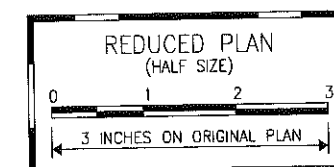
**Legend:**

- General area to be repaired  
See Note 1.d on Sht. S-0.
- exp. Expansion Joint

**Note:**

Stations and azimuths shown are from original Construction drawings, see Structural Note 1.c. on sheet no. S-0.

DESIGNED BY	DATE
CHECKED BY	
NO.	

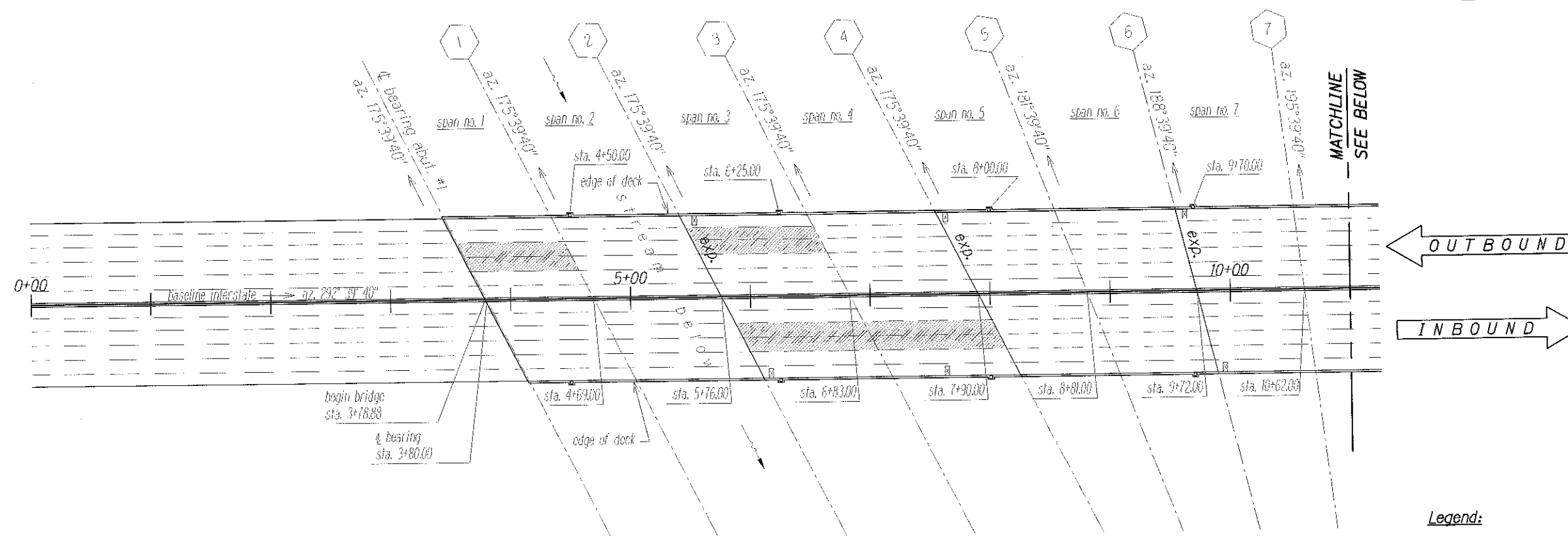


STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION  
**WAIMALU VIADUCT**  
**PRIORITY 1 DECK REPAIR - PLAN**  
**INTERSTATE ROUTE H-1**  
**PEARL CITY AND WAIMALU VIADUCT IMPROVEMENTS, PH. 1**  
**Fed. Aid Proj. No. BR-HI-1(263)**

Scale: As Shown  
Date: Dec. 16, 2009  
SHEET No. S-12 OF 18 SHEETS

DATE	REVISION

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BR-HI-1(263)	2009	15	19

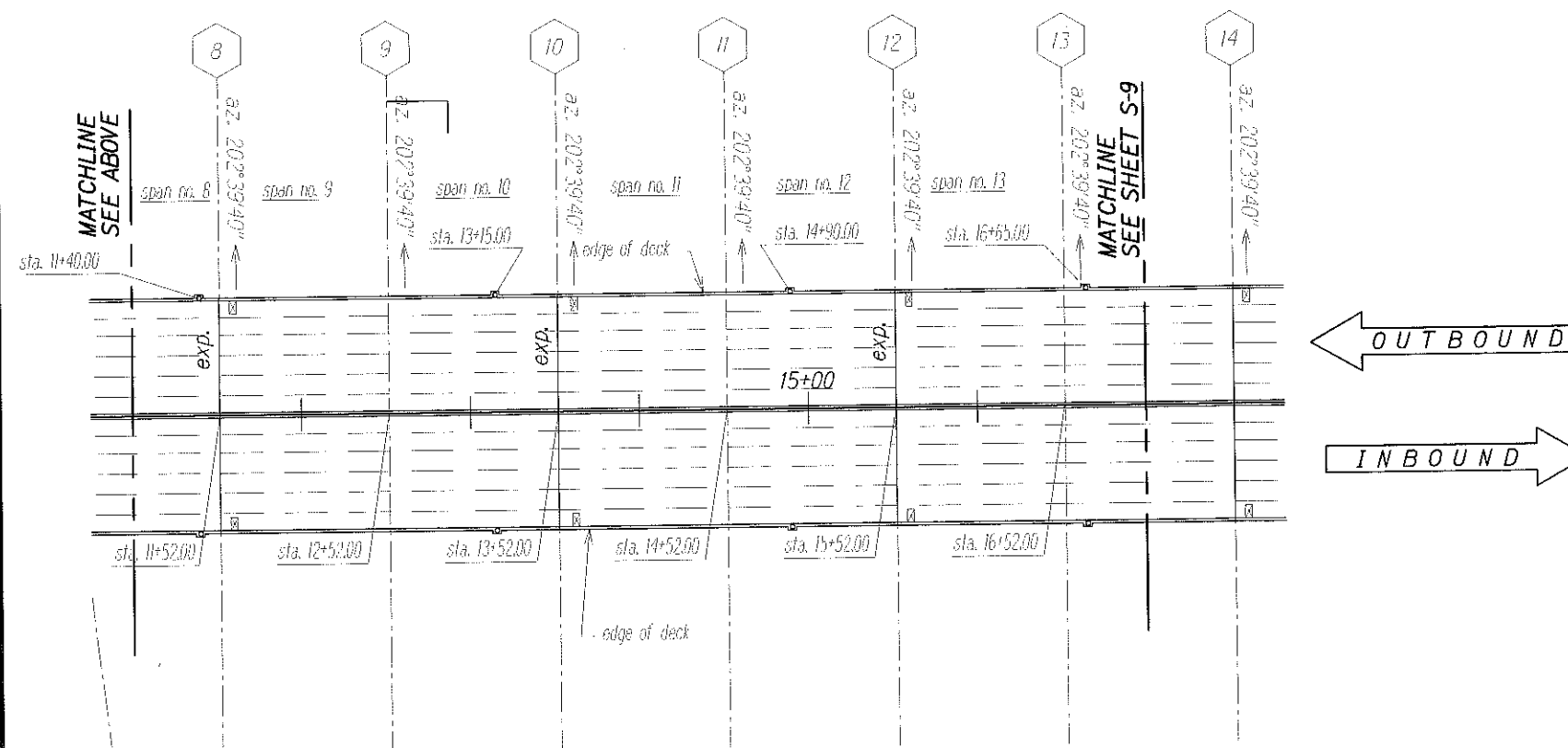


**Legend:**

- General area to be repaired  
See Note 1.d on Sht. S-0.
- exp. Expansion Joint

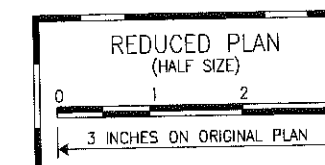
**Note:**

Stations and azimuths shown are from original Construction drawings, see Structural Note 1.c. on sheet no. S-0.



**PRIORITY 2 DECK REPAIR - PLAN**

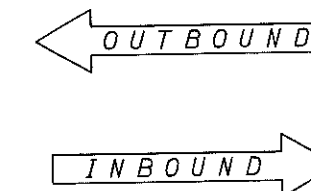
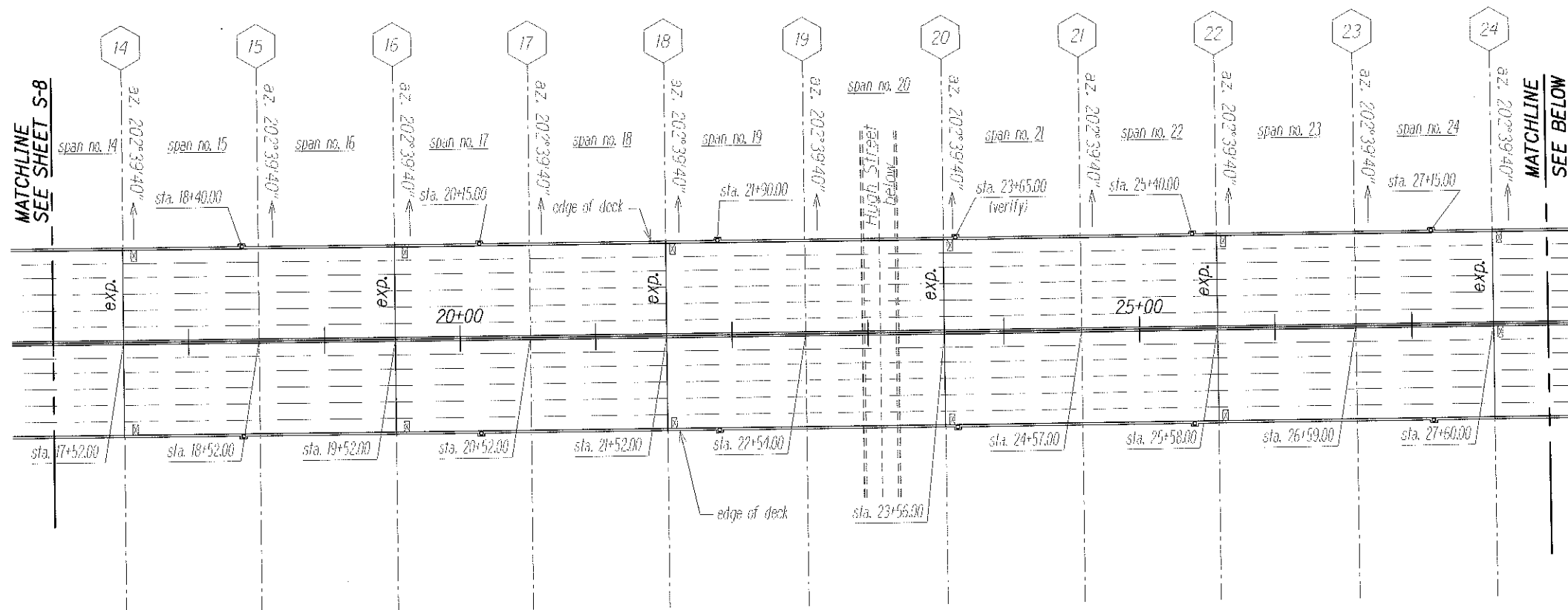
Scale: 1" = 50'-0"



STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION	
<b>PEARL CITY VIADUCT</b>	
<b>PRIORITY 2 DECK REPAIR - PLAN</b>	
<b>INTERSTATE ROUTE H-1</b>	
<b>PEARL CITY AND WAIMALU VIADUCT IMPROVEMENTS, PH 1</b>	
<b>Fed. Aid Proj. No. BR-HI-1(263)</b>	
Scale: As Shown	Date: Dec. 16, 2009
SHEET No. S-13 OF 18 SHEETS	

DATE	REVISION

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BR-HI-11263	2009	16	19

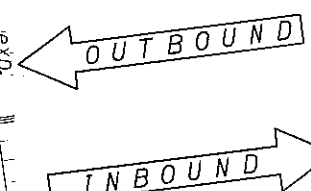
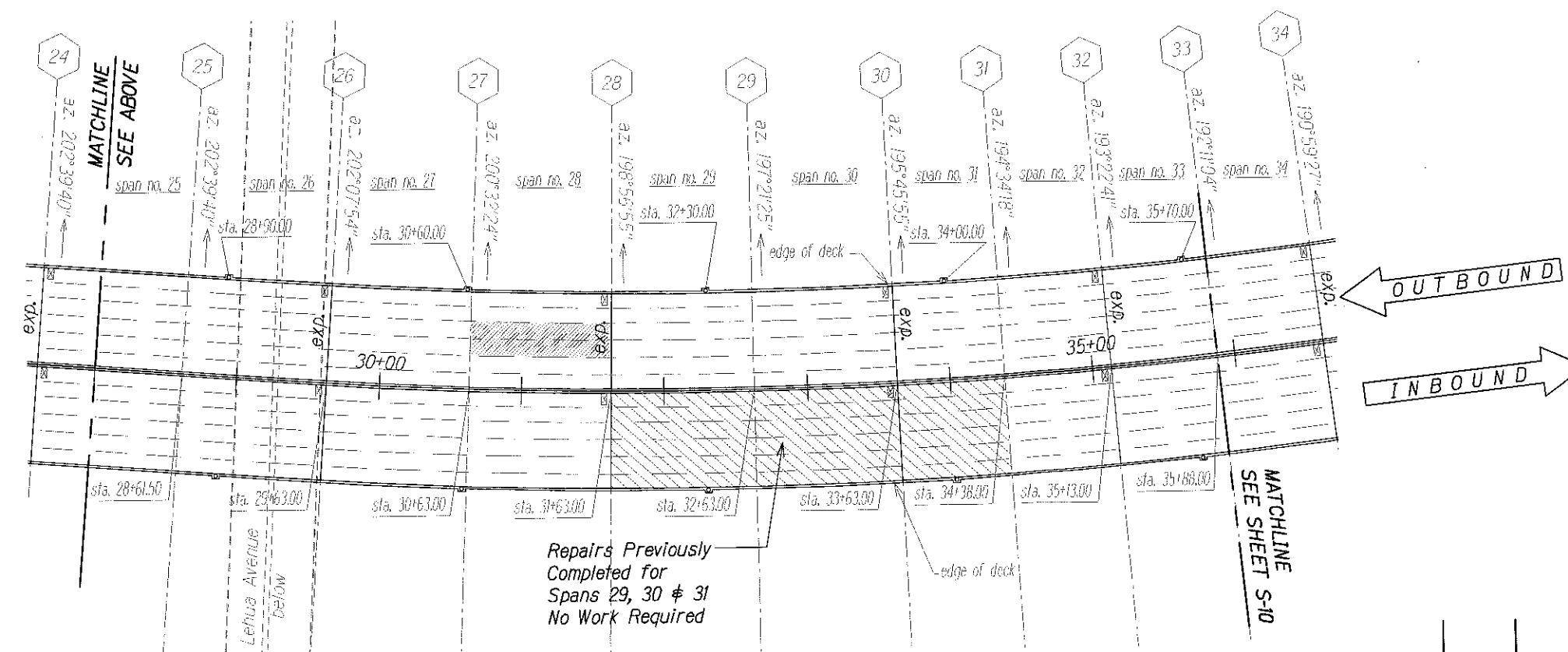


**Legend:**

- General area to be repaired  
See Note 1.d on Sht. S-0.
- exp. Expansion Joint

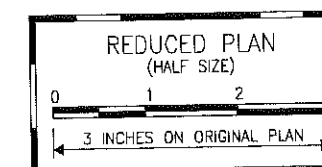
**Note:**

Stations and azimuths shown are from original Construction drawings, see Structural Note 1.c. on sheet no. S-0.



Repairs Previously Completed for  
Spans 29, 30 & 31  
No Work Required

**PRIORITY 2 DECK REPAIR - PLAN**  
Scale: 1" = 50'-0"



STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

**PEARL CITY VIADUCT**  
**PRIORITY 2 DECK REPAIR - PLAN**  
**INTERSTATE ROUTE HI**  
**PEARL CITY AND WAIMALU VIADUCT IMPROVEMENTS, PH 1**  
**Fed. Aid Proj. No. BR-HI-11263**

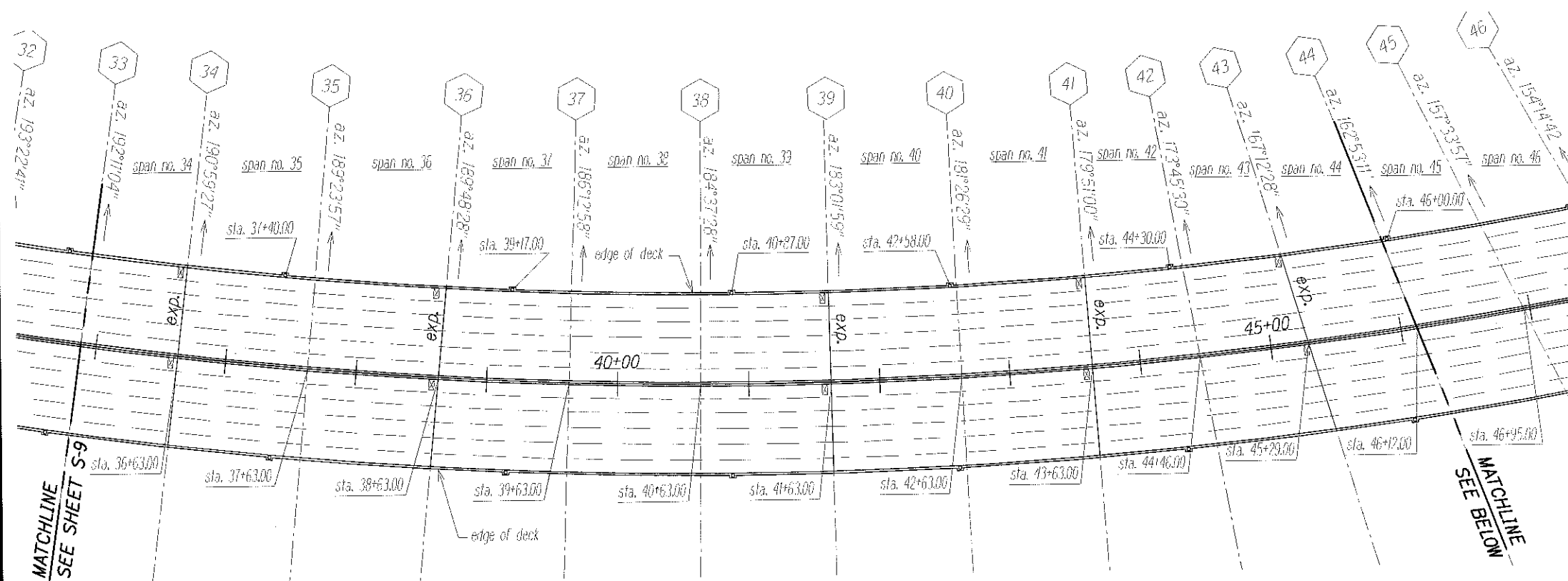
Scale: As Shown      Date: Dec. 16, 2009

SHEET No. S-14 OF 18 SHEETS

DATE	_____
SURVEY PLANNED BY	_____
DESIGNED BY	_____
TRACED BY	_____
NOTE BOOK	_____
QUANTITIES BY	_____
CHECKED BY	_____

DATE	REVISION

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BR-HI-1(263)	2009	17	19



OUTBOUND  
INBOUND

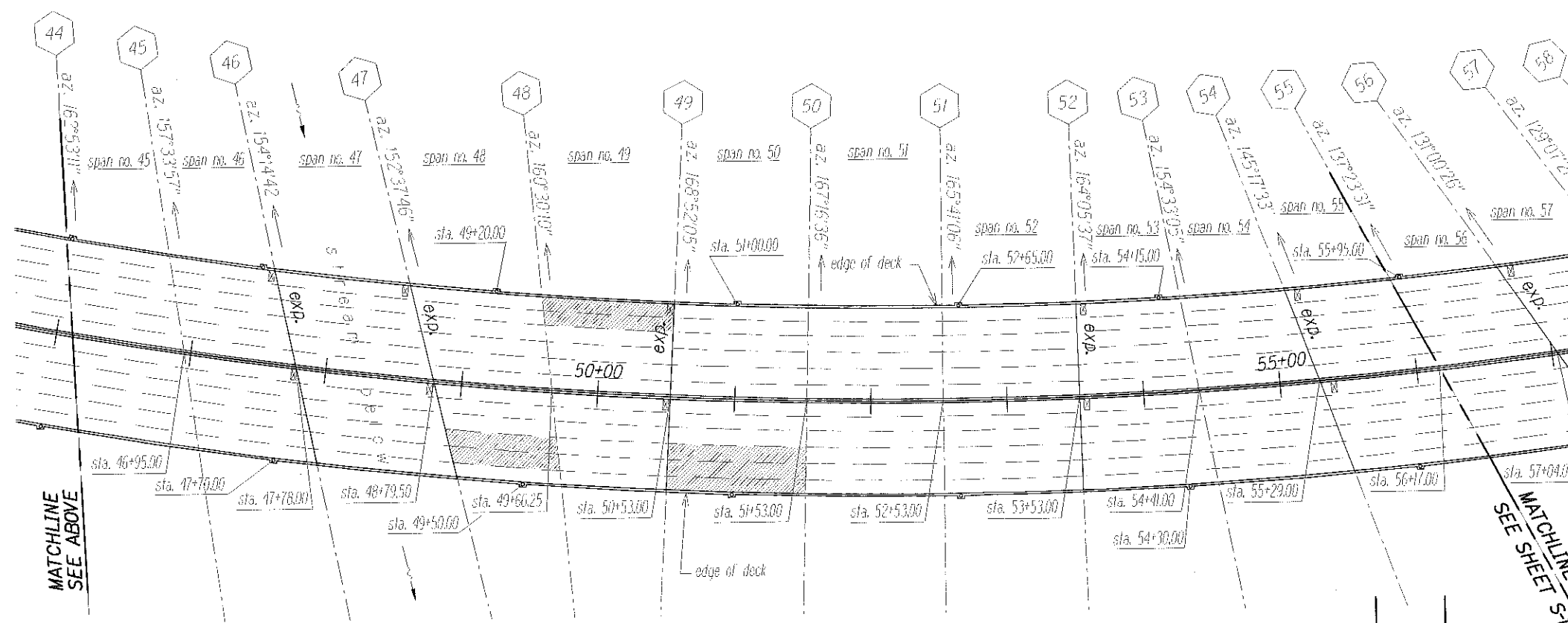
Legend:

General area to be repaired  
See Note 1.d on Sht. S-0.

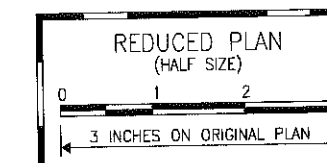
exp. Expansion Joint

Note:

Stations and azimuths shown are from original Construction drawings, see Structural Note 1.c. on sheet no. S-0.



OUTBOUND  
INBOUND



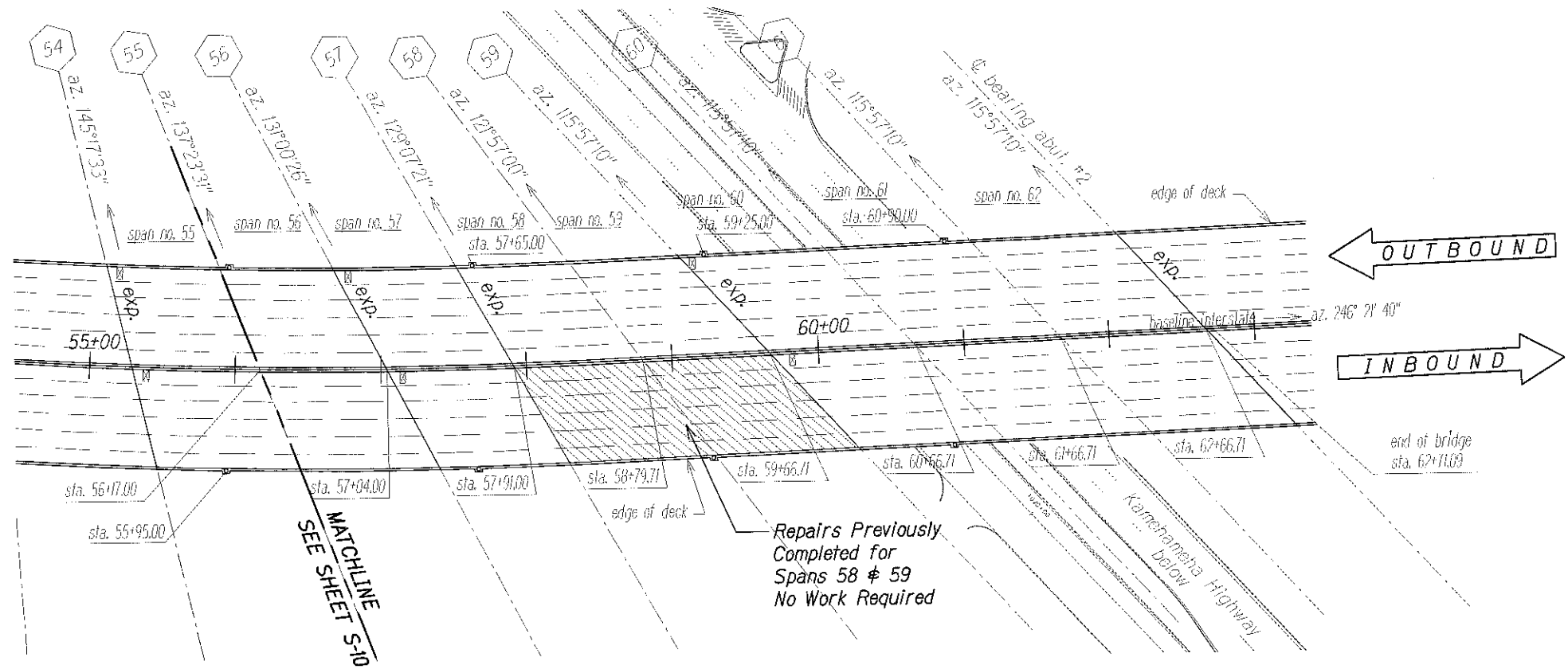
# PRIORITY 2 DECK REPAIR - PLAN Scale: 1" = 50'-0"

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION  
**PEARL CITY VIADUCT**  
**PRIORITY 2 DECK REPAIR - PLAN**  
**INTERSTATE ROUTE H-1**  
**PEARL CITY AND WAIMALU VIADUCT IMPROVEMENTS, PH 1**  
Fed. Aid Proj. No. BR-HI-1(263)  
Scale: As Shown Date: Dec. 16, 2009  
SHEET No. S-15 OF 18 SHEETS

ORIGINAL PLAN	DATE
SURVEY PLOTTED BY	
DESIGNED BY	
CHECKED BY	
NO.	

DATE	REVISION

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BR-HI-1(263)	2009	18	19



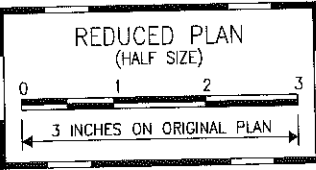
**Legend:**

General area to be repaired  
See Note 1.d on Sht. S-0.

Expansion Joint

**Note:**  
Stations and azimuths shown are from original Construction drawings, see Structural Note 1.c. on sheet no. S-0.

**PRIORITY 2 DECK REPAIR - PLAN**  
Scale: 1" = 50'-0"



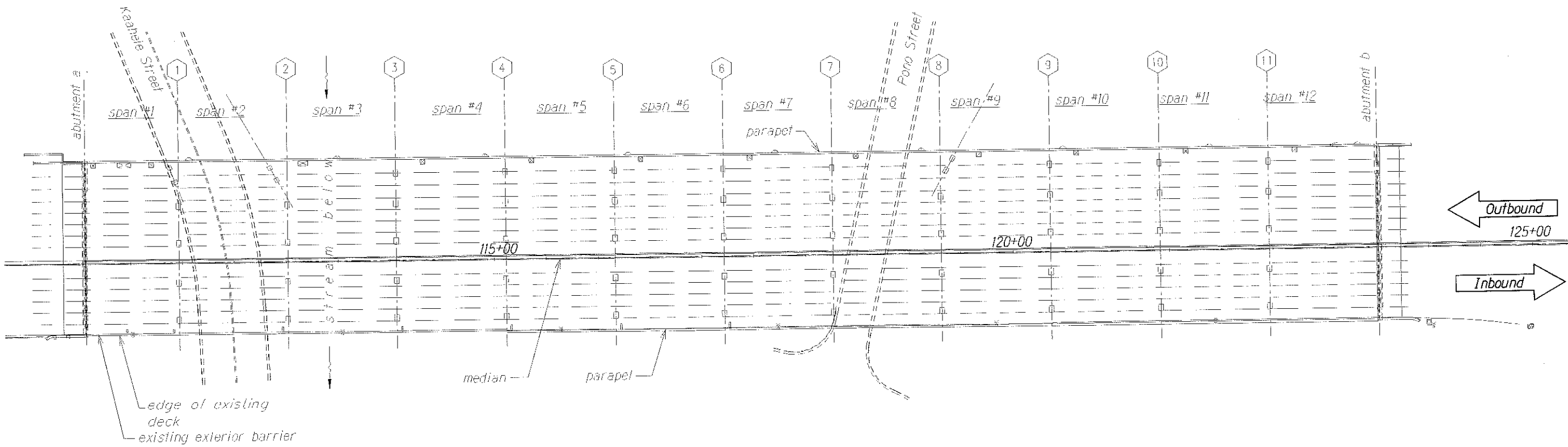
DATE	_____
DESIGNED BY	_____
DRAWN BY	_____
CHECKED BY	_____
NOTED BY	_____
ORIGINAL PLAN	_____

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION  
**PEARL CITY VIADUCT**  
**PRIORITY 2 DECK REPAIR - PLAN**  
INTERSTATE ROUTE H-1  
PEARL CITY AND WAIMALU VIADUCT IMPROVEMENTS, PH 1  
Fed. Aid Proj. No. BR-HI-1(263)

Scale: As Shown  
Date: Dec. 16, 2009

DATE	REVISION

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BR-HI-112631	2009	19	19



(NO WORK ON WAIMALU VIADUCT)  
PRIORITY 2 DECK REPAIR - PLAN  
 Scale: 1" = 50'-0"

- Legend:
- General to be repaired  
See Note 1.d on Sht. S-0.
  - exp. Expansion Joint

DATE	_____
SURVEY PLOTTED BY	_____
DESIGNED BY	_____
CHECKED BY	_____
ORIGINAL PLAN	_____
NOTE BOOK	_____
No.	_____

DATE	_____
REVISION	_____
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION <b>WAIMALU VIADUCT</b> <b>PRIORITY 2 DECK REPAIR - PLAN</b> <b>INTERSTATE ROUTE H-1</b> <b>PEARL CITY AND WAIMALU VIADUCT IMPROVEMENTS, PH. 1</b> <b>Fed. Aid Proj. No. BR-HI-112631</b> Scale: As Shown      Date: Dec. 16, 2009 SHEET No. S-17 OF 18 SHEETS	

PERMANENT BMP CHECKLIST AND PROJECT RECORD	
Project Name: _____	
Project Number: _____	Project Route/Milepost: _____
Advertise Date: _____	
Exemptions (check all that apply)	
<input type="checkbox"/>	Projects that do not generate 1 acre or more of new permanent impervious surface
<input type="checkbox"/>	Project returns the area to pre-development runoff conditions.
<input type="checkbox"/>	Project is a utility project (check applicable type)
<input type="checkbox"/>	<input type="checkbox"/> Pipeline <input type="checkbox"/> Conduit <input type="checkbox"/> Traffic Sign/Signal
<input type="checkbox"/>	Projects that are not continuous or involve several locations which may collectively generate 1 acre or more of new permanent impervious surface.
<input type="checkbox"/>	Projects that do not discharge runoff into any waters of the United States.
If none of the above is checked, the project must provide permanent BMPs	
Water Quality Control:	
Water quality volume required: _____	cubic feet
Water quality volume provided: _____	cubic feet
Type of BMP used: _____	
Attach on a separate sheet a detailed description of the Permanent BMPs to be incorporated into the design and the appropriate maintenance requirements.	
Water Quality Control: (Where applicable)	
Existing Site Runoff:	
10-year: _____	cubic feet per second
25-year: _____	cubic feet per second
50-year: _____	cubic feet per second
100-year: _____	cubic feet per second
Proposed Site Runoff:	
10-year: _____	cubic feet per second
25-year: _____	cubic feet per second
50-year: _____	cubic feet per second
100-year: _____	cubic feet per second
Type of BMP used: _____	
Description: _____	

Figure 1-1

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAY DESIGN SECTION

DOT 4-802 (HWY-DD 4/93)

**RELEASE FORM FOR HIGHWAY PLANS, DATA & CADD FILES**

(CADD Files are ONLY in Microstation Format)

**INSTRUCTIONS** : Complete Part I ONLY.

I. **TITLE/AGENCY/COMPANY** :

**ADDRESS** :

**PHONE NO.** :

**DATE** :

**REQUESTED BY (NAME)** :

**DATA REQUESTED (Name of Highway & Location)** :

**PURPOSE (STATEMENT ON USE OF PLANS AND/OR CADD FILES)** :

II. **CLEARANCE** : (To BE Filled In By Highway Design Section)

**APPROVED/DISAPPROVED** :

**TITLE** :

**REFERRED TO** :

**DP UNIT A** :

**DP UNIT B** :

**A.G.'s OFFICE** :

**DESIGN PROJ. MGR.** :

**CADD OFC.** :

III. **PROCESSING OF REQUEST** :

**HWY-DD FILE NO.** :

**PROJECT NO.** :

**PROJECT TITLE & DESCRIPTION** :

**DATA FURNISHED (Including No. of Copies)** :

**SPECIAL INSTRUCTIONS FOR PRINTING AND/OR DELIVERY** :

**COMPLETED BY** :

**DATE** :

**TITLE** :

**PHONE NO.** :

Rev. 2/93



## CONFLICT OF INTEREST (COI) DISCLOSURE FORM

Potential organizational conflict must be disclosed by offerors to the project owner as stated in 23 CFR 636.116. This form is to be completed by the General Contractor and all of its engineering, environmental, or architectural consultants hired for this project.

The Federal Highway Administration has defined "organizational conflict of interest" in 23 CFR Section 636.116 as follows:

Organizational COI means that because of other activities or relationships with other persons, a person is unable to render impartial assistance or advice to the owner, or the person's objectivity in performing the contract work is or might be otherwise impaired, or a person has an unfair competitive advantage.

These regulations also apply to "improper business practices and personal conflicts of interest" of the project owner's selection team members. 23 CFR Section 636.117 indicates that Federal Acquisition Regulations will apply to the state's selection team members in absence of relevant state laws and procedures. These regulations require government business to be "above reproach," conducted "with complete impartiality and with preferential treatment for none" and with "the highest degree of public trust and an impeccable standard of conduct" to avoid "even the appearance of a conflict of interest."

The identification, assessment, and management of real or potential COI is a joint task between the Department and the private sector. It requires both parties to work together in an atmosphere of candor and accountability.

The Department's determination will be based on a number of factors including;

1. Situational facts – description of the situation and all known facts specific to the actual or potential COI;
2. Type of work – specific product or service involved;
3. Relationship to Management – specific interactions with the Department's decision managers; and
4. Timing and availability of project or service.

It is important to understand that specific facts disclosed in any COI situation will be unique to that situation. Therefore, the decisions and conclusions reached in one situation may or may not be directly applicable to another.

If an organizational COI is determined to exist, The State of Hawaii, Department of Transportation, Highways Division may, at its sole discretion, disqualify the proposer from further participation in the procurement, cancel this procurement, or if award has already occurred, cancel the contract. If the proposer was aware of an organizational COI prior to award of the contract and did not disclose the conflict or potential conflict to the Department, the Department may terminate the contract for default.

Some examples of conflict of interest as seen by the Department are:

Conflict Category	Description
----------------------	-------------

- |    |  |
|----|--|
| 1. | An employee of the Contractor, who has a spouse or immediate relative that is a key Department personnel working on the project;   |
| 2. | Any employee of the Contractor's engineering or environmental consultant who has a spouse or immediate relative that is a key Department personnel working on the project;   |
| 3. | Any firm who assisted the Department or the Department's agent in preparing various Requests for Proposal (RFP) documents, and where that same firm is also partnering on the Contractor's Design-Build team for the project. Applicable RFP documents includes but is not limited to:<br>A. Technical Provisions;<br>B. Plan Sheets;<br>C. Special Provisions;<br>D. Geotechnical Borings; and<br>E. Any environmental document where specific recommendations or mitigation items are required as part of the project scope. |
| 4. | Any firm who is currently defending the Department against a lawsuit, claim, informal claim, or notice of claim, by a contractor or subcontractor, and where that same firm is also partnering with the same contractor for this project. Also, any firm who is currently providing post design or construction management services to the Department on a project where his Design-Build partner is the contractor.   |

HDOT Key Project Personnel List:

Edwin Sniffen, Technical Design Services Section, Section Head  
Ken Tatsuguchi, Planning Branch, Engineering Program Manager  
Jamie Ho, Construction & Maintenance Branch, Engineering Program Mgr.  
Casey Abe, Highways Testing Laboratory, Engineering Program Manager  
Pratt Kinimaka, Oahu District, District Engineer  
Emilio Barroga, Jr., Technical Design Services Section, Project Manager

Failure to submit a complete Conflict of Interest Disclosure Form by the contractor and all of its engineering, environmental, or architectural consultants will automatically designate the proposer as non-responsive to this solicitation.

Failure to disclose conflict of interest information and any unsatisfactory performance of the contract as a result of the conflict, as perceived by the Department, may result in commencement of debarment or suspension action defined in Section 103D-702, Hawaii Revised Statutes and Section 3-126, Hawaii Administrative Rules.

## PART I

Date:	
Contractor, Engineering, Environmental, or Architectural firm name:	
<p>Would any of the four conflict categories shown on page 2 be applicable to your business or any employee or employees of your firm?</p> <p><input type="checkbox"/> – NO          If your answer is "no", endorse this form in the signature line provided below and skip Part II of this form</p> <p><input type="checkbox"/> – YES          If your answer is "yes", continue to Part II of this form.</p>	
<p>My signature certifies that this firm has no business or personal relationships with any other companies, agencies or persons that could be considered as a conflict interest or potential conflict of interest to the Department, and that no principals, officers, agents, employees, or representatives of this firm that may have business or personal relationship with any other companies, agencies or persons that could be considered as a conflict of interest or potential conflict of interest to the Department, pertaining to any and all work or services to be performed as a result of this request and any resulting contract with the Department.</p>	
<div style="border-bottom: 1px solid black; width: 100%; margin-bottom: 5px;"></div> Date	<div style="border-bottom: 1px solid black; width: 100%; margin-bottom: 5px;"></div> Name and Title (please print)
<div style="border-bottom: 1px solid black; width: 100%; margin-bottom: 5px;"></div> Signature	

## PART II

Applicable Conflict Category (1 to 5):
Name(s) of Employee (if applicable and/or specific to one individual or individuals):
Provide details of the potential conflict. Include project name, project owner and current applicable contact(s), litigation or claim amount, employee or business relationship with respect to conflict, and other information as applicable (attach other sheets as necessary):
Proposed action by Contractor or its Engineering, Environmental, or Architectural firm to mitigate conflict or potential conflict (attach other sheets as necessary). If the Department has determined that a conflict exists and the Department accepts the proposed mitigative action by the Contractor in this block, the Qualifications proposal will be scored using the information contained in the mitigation proposal.

I certify that information provided in Part II is true and correct and to the best of my knowledge.

\_\_\_\_\_  
Date

\_\_\_\_\_  
Name and Title (please print)

\_\_\_\_\_  
Signature

**FOR THE DEPARTMENT'S REVIEW COMMITTEE'S USE:**

1. \_\_\_\_ A conflict does not exist
2. \_\_\_\_ A conflict does exist
3. \_\_\_\_ The proposed mitigative action by the Contractor or its professional service consultant(s) is/are adequate to mitigate the conflict.
4. \_\_\_\_ The proposed mitigative action by the Contractor or its professional service consultant(s) is/are not adequate to mitigate the conflict.

\_\_\_\_\_  
Date

\_\_\_\_\_  
Department's Review Committee Member Signatures

Attach this completed form as a tabbed Appendix to the QUALIFICATIONS PROPOSAL. This will not count against the QUALIFICATION PROPOSAL 100 page limitation.