

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HSIP-083-1(069)	2014	ADD. 3	50

GENERAL NOTES

1.

The scope of work for this project consists of the installation of milled centerline and shoulder rumble strips, pavement markings, signage, guardrail and end treatments, and drainage improvements.
2.

The Contractor is reminded of the requirements of Subsection 105.16 Subcontracts, which requires him to perform work to not less than 30 percent of the total contract cost less deductible items. Non-compliance with this Subsection may be grounds for rejection of bid.
3.

The Contractor's attention is directed to the following Sections of the Special Provisions: Subsection 104.09 Maintenance of Traffic Subsection 104.11 - Utilities and Services; Subsection 107.06 - Contractor Duty Regarding Public Convenience; and Section 645 - Work Zone Traffic Control.
4.

At the end of each day's work, the Contractor shall remove all equipment and other obstructions to permit free and safe passage of public traffic.
5.

The existence and location of underground utilities, manholes, monuments and structures as shown on the plans are from the latest available data, but the accuracy is not guaranteed. The encountering of other obstacles during the course of work is possible. The Contractor shall tone for the exact locations and depths of all underground facilities, either shown on or omitted from the plans, in areas where work, such as the placement of sign posts, traffic signal conduits, etc. may affect these properties. Toning shall be considered incidental to the various contract items and will not be paid for separately. The Contractor shall be held liable for any damages incurred to the existing facilities and/or improvements as a result of his operations.
6.

The Contractor shall notify the Department of Transportation Services, Public Transit Division at 768-8396 and Oahu TransitServices, Inc. (bus operations: 848-4578 or 852-6016 and paratransit operations: 454-5041 or 454-5020) of the scope of work, location, proposed closure of any street, traffic lane sidewalk, or bus stop and duration of project at least two (2) weeks prior to construction.
7.

The Contractor shall notify the Engineer in writing, two (2) weeks prior to starting construction operations.
8.

The Contractor shall indemnify and be solely responsible for the protection of adjacent properties, utilities and existing structures from damages due to construction. Repairing any damage shall be at the Contractor's own expense, to the satisfaction of the Engineer.
9.

The Contractor shall be responsible for ensuring that existing drainage system will be functional at all times during construction. The Contractor shall furnish materials, equipment, labor, tools and incidentals necessary to maintain flow. This work shall be considered incidental to any culvert work or the various contract items and will not be paid for separately.
10.

Earth swale shall be graded to drain. This work shall be considered incidental to various contract items.
11.

The Contractor shall clean and remove any accumulation of aggregates along the roadside within 10 feet of the edge of pavement. This work shall be considered incidental to bulk of work or the various contract items and will not be paid for separately.

12.

No material and/or equipment shall be stockpiled or otherwise stored within the highway right-of-way except at locations designed in writing and approved by the Engineer. If use of location is approved by the engineer, the Contractor shall obtain a permit to use the property within the highway right-of-way from the Oahu District Office at telephone no. 831-6712.
13.

Existing facilities and/or pavement to remain which has been damaged by the Contractor shall be restored to its original condition at no cost to the State.
14.

Contractor shall dispose or deliver any removed material at no cost to the State.
15.

All existing utilities, whether or not shown on the plans, shall be protected at all times by the Contractor during construction unless specified on the plans to be abandoned. The Contractor shall be held liable for any damages incurred to the existing utilities as a result of his operations. All damaged portions shall be replaced in accordance with the Standards and Specifications of the affected utility company at no cost to the State.
16.

All work specified in the contract but not listed separately in the proposal schedule shall be considered incidental to the other various contract items and shall not be paid for separately.
17.

Removal and disposal of existing guardrail, end terminals and any debris shall be considered incidental to their respective bid items.
18.

Prior to installation of guardrails and end treatments, the Contractor shall be responsible for probing the area. This work shall be considered incidental to the various contract items. The Contractor shall be held liable for any damages incurred to the existing facilities and/or improvements as a result of his operations. All damaged portions shall be replaced in accordance with the standards and specifications of the affected utiltiy company at the Contractor's expense.
19.

The station numbers between Begin Project (⌘ Sta. 553+99.54 (BK) = ⌘ Sta. 554+00.00 (AH)) to End Project (⌘ Sta. 804+25.47 (BK) = ⌘ Sta. 818+74.10 (AH)) refer to the roadway Centerline and do not match the prior As-Built Baseline stations from Federal Aid Project No. NH-083-1(43). Details of this project reference the Centerline to better follow the center of the road.
20.

The Contractor shall obtain a qualified individual to conduct Hawaiian Waterbird and Hawaiian Goose Nest Surveys at the proposed site, in accordance with Section 7 of the Endangered Speices Act (ESA) of the U.S. Fish and Wild Life Services, prior to project initiation. Additionally, the Contractor shall obtain a qualified individual to conduct a visual survey of the project site just prior to commencement or resumption of construction activities to ensure that no sea turtles, or any other species currently protected by the ESA are present. For further details, please refer to Special Provisions Section 627.

LEGEND

- e—

Existing Electrical Line
- ∘jpp

Existing Joint Pole
- ∘pp

Existing Power Pole
- ∘emh

Existing Electric Manhole
- t—

Existing Telephone Line
- ∘ip

Existing Telephone Pole
- ∘tmh

Existing Telephone Manhole
- sc—

Existing Signal Corps Line
- tv—

Existing TV Cable
- w—12—

Existing 12" Water Line
- ∘wmh

Existing Water Manhole
- ∘av

Existing Water Air Valve
- ∘wv

Existing Water Valve Box
- ⊞wm

Existing Water Meter
- ⊞fhr

Existing Fire Hydrant
- s—12—

Existing Sewer Line
- ∘smh

Existing Sewer Manhole
- g—6—

Existing 6" Gas Line
- ∘gv

Existing Gas Valve Box
- ∘gmh

Existing Gas Manhole
- ⊙mon.

Existing Monument
- d--24---

Existing 24" Drain Line
- ∘sdmh

Existing Storm Drain Manhole
- ⊞gdi

Existing Grated Drop Inlet
- ⊞cb

Existing Catch Basin
- ⊞sign

Existing Traffic Sign
- ⊞thl

Existing Highway Lighting Standard
- ⊞tlpb

Existing Highway Lighting Pullbox
- ∘isp

Existing Traffic Signal Pole
- ⊞ispb

Existing Traffic Signal Pullbox
- ⊞

Existing Metal Guardrail
- New Metal Guardrail

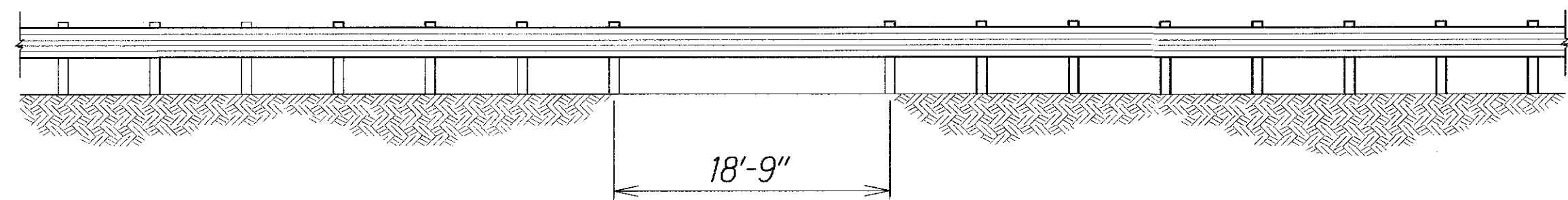
2	10/20/14	Deleted General Note No. 12
1	10/7/14	Revised General Note No. 20

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

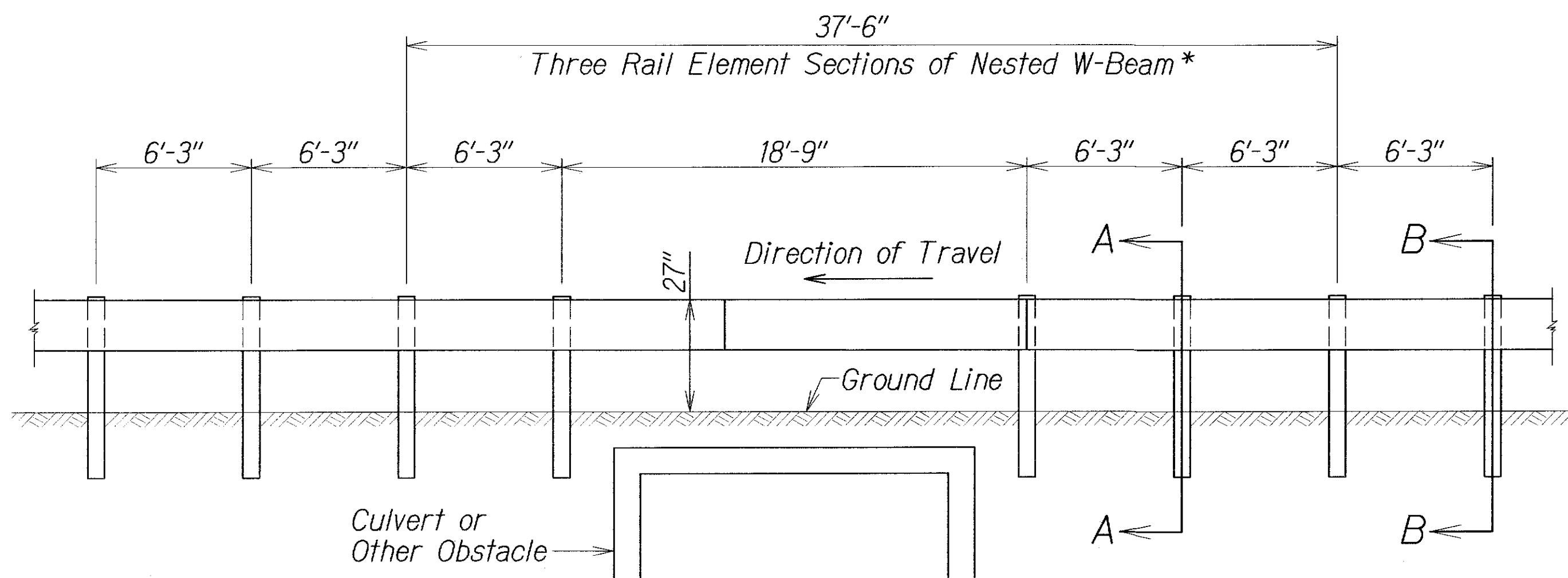
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION
GENERAL NOTES AND LEGEND
KAMEHAMEHA HIGHWAY SAFETY IMPROVEMENTS
Waikane Valley Road to Kaaawa Bridge
Federal Aid Project No. HSIP-083-1(069)

Date: August, 2014

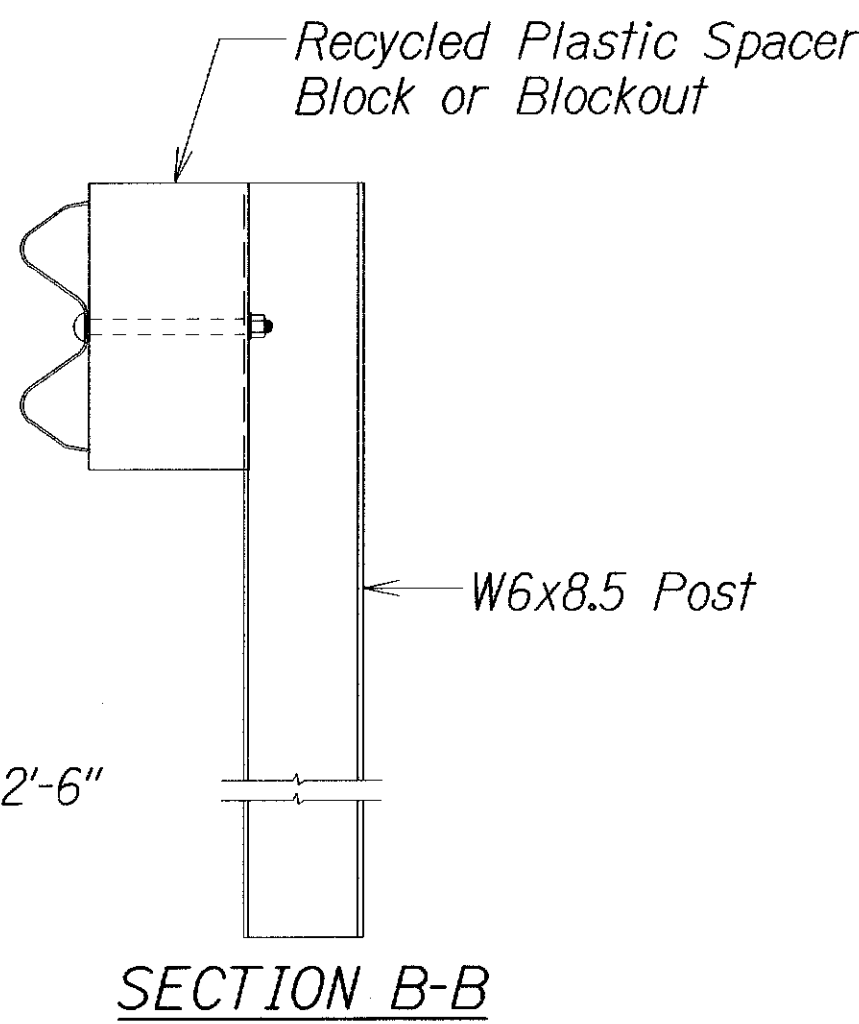
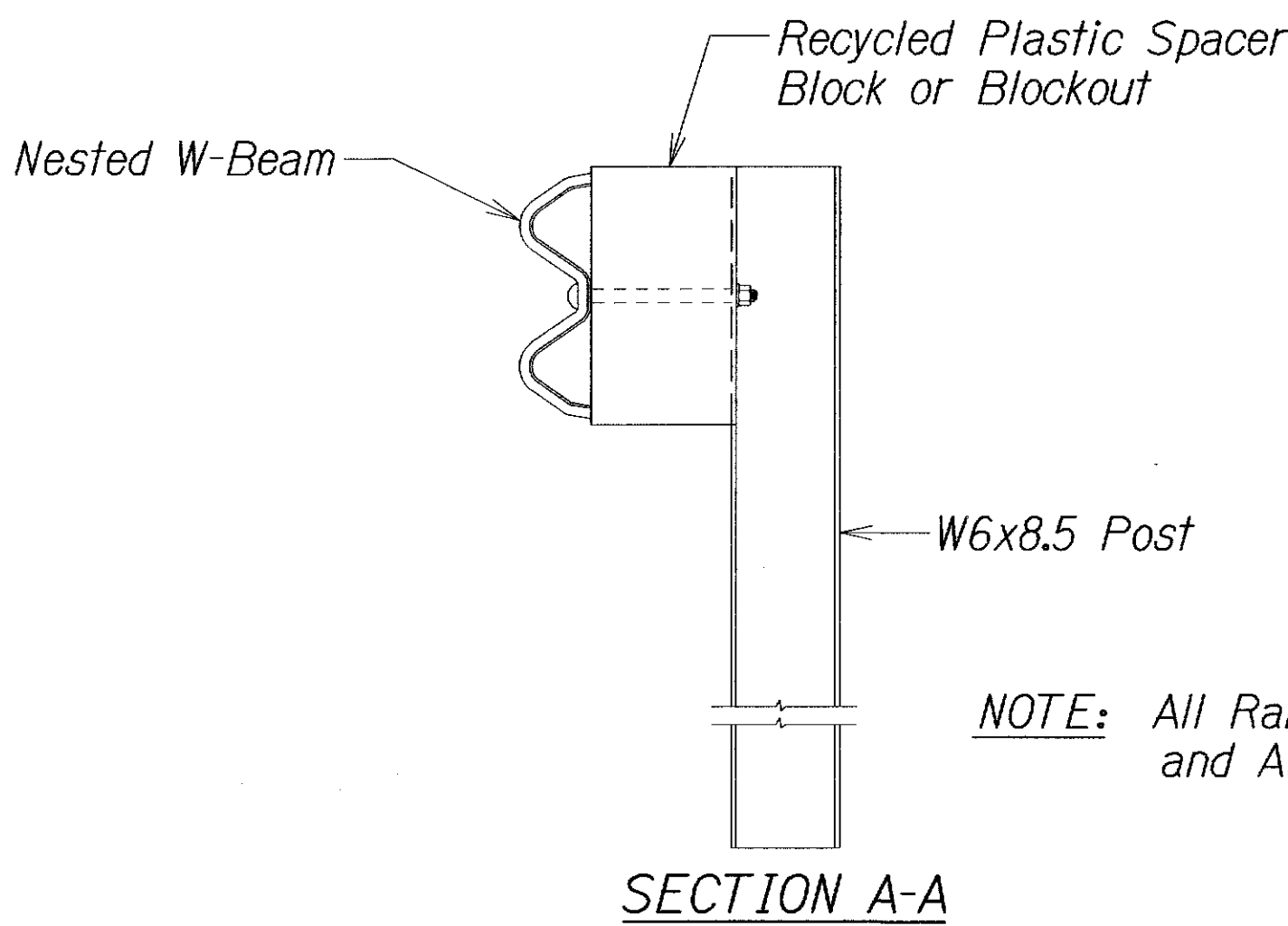
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HSIP-083-1(069)	2014	ADD. 12	50



LONG SPAN OVER CULVERT



NESTED LONG SPAN STRONG POST
W-BEAM GUARDRAIL OVER 18'-9" CULVERT
(MAXIMUM DYNAMIC DEFLECTION OF 3.2 FT.)



NOTE: All Rail Elements Sections are 12'-6" and All Posts are 6' Long

*Note: All nested W-Beam splices points shall be staggered.

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

4/22/04 rdl/ruby/guardrail/rsl/wbeamsadgn

2

10/20/14	Deleted Nested Long Span Strong W-Beam Guardrail Over 12'-16" Culvert
DATE	REVISION
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION NESTED LONG SPAN STRONG POST W-BEAM GUARDRAIL OVER CULVERT KAMEHAMEHA HIGHWAY SAFETY IMPROVEMENTS Waikane Valley Road to Kaaawa Bridge Federal Aid Project No. HSIP-083-1(069) Scale: N.T.S. Date: August, 2014	
SHEET No. 6 OF 6 SHEETS	