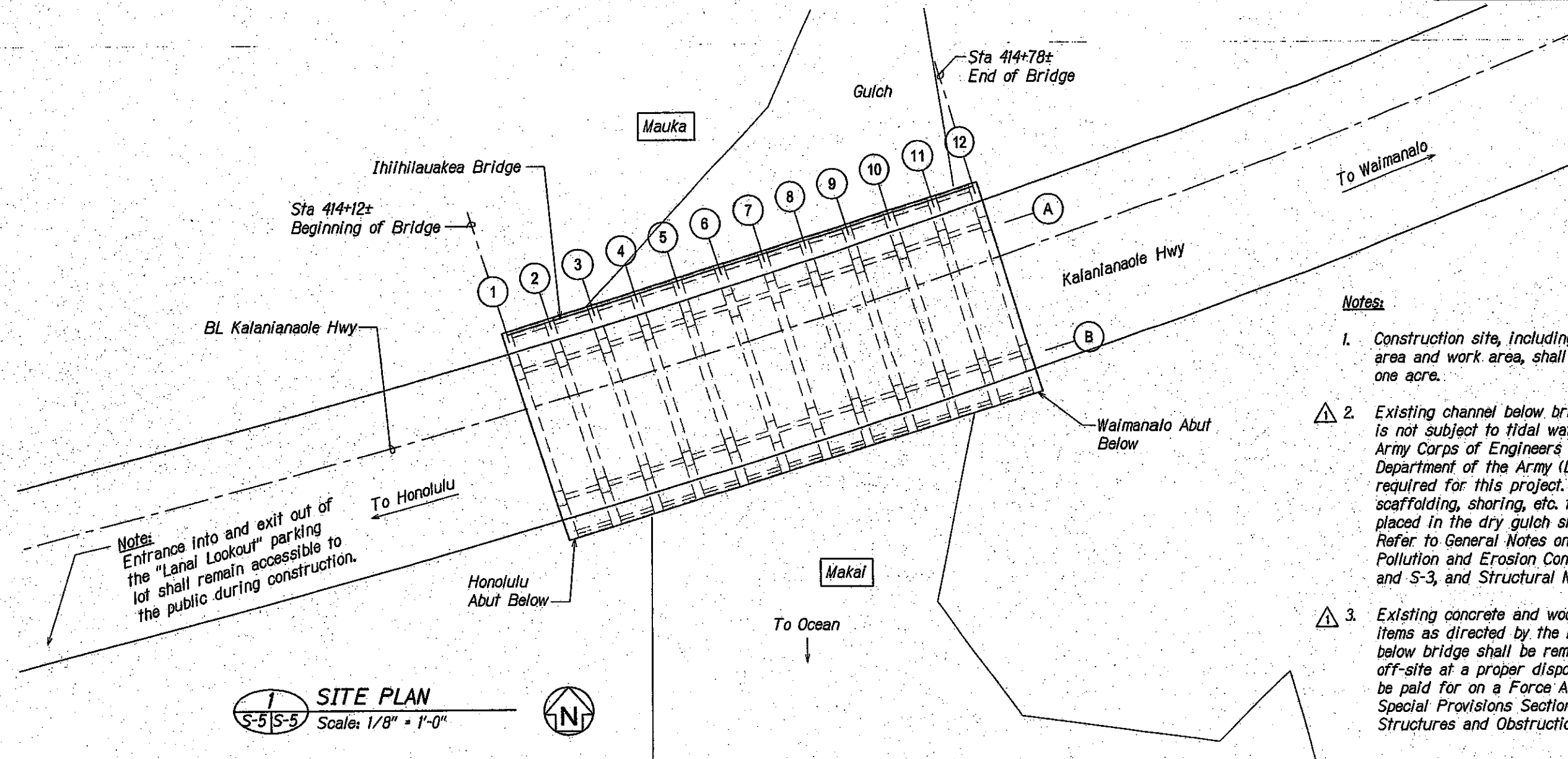
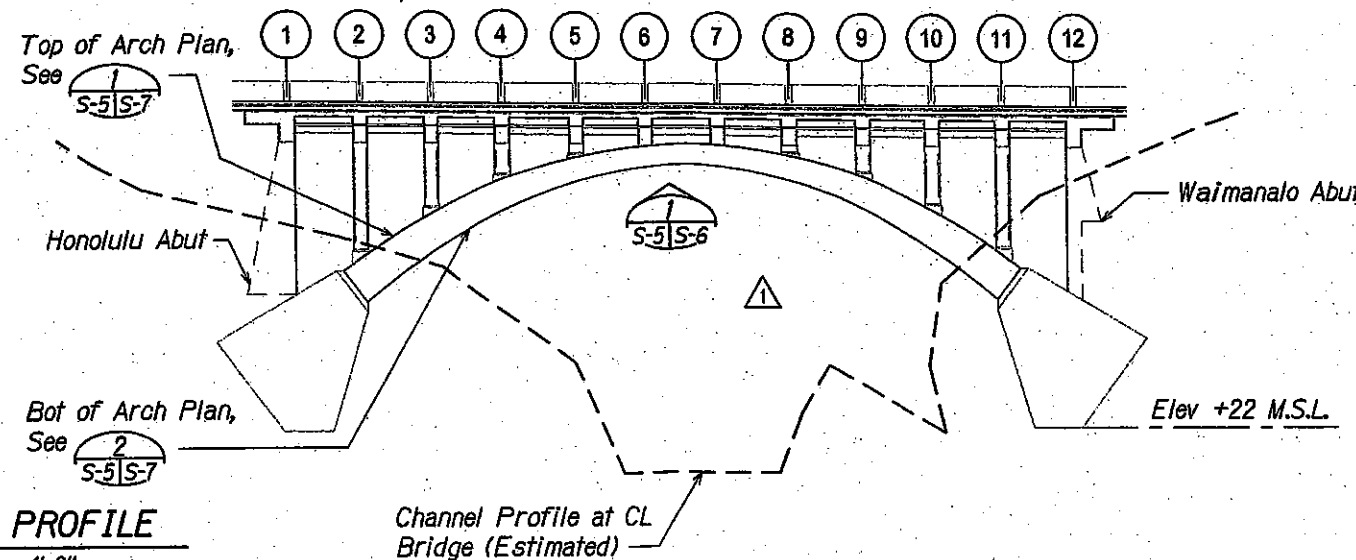


FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	72B-01-13M	2013	ADD. 8	34

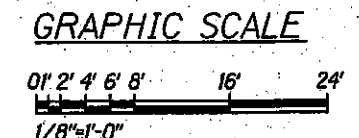


- Notes:**
1. Construction site, including Contractor's staging area and work area, shall be limited to less than one acre.
 2. Existing channel below bridge is a dry gulch and is not subject to tidal water influences. The U.S. Army Corps of Engineers has determined that a Department of the Army (DA) permit is not required for this project. Construction materials, scaffolding, shoring, etc. that is temporarily placed in the dry gulch shall not enter the ocean. Refer to General Notes on sheet S-1, Water Pollution and Erosion Control Notes on sheets S-2 and S-3, and Structural Notes on sheet S-4.
 3. Existing concrete and wood debris, and other items as directed by the Engineer, in channel below bridge shall be removed and disposed of off-site at a proper disposal site. This item shall be paid for on a Force Account basis. Refer to Special Provisions Section 202 "Removal of Structures and Obstructions."

1 SITE PLAN
 Scale: 1/8" = 1'-0"



2 BRIDGE PROFILE
 Scale: 1/8" = 1'-0"



	2/20/13 DATE	Revised Bridge Profile and Notes REVISION
	STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION SITE PLAN & PROFILE KALANIANAʻOLE HIGHWAY Emergency Repairs of Ihiihilauea Bridge Project No. 72B-01-13M Scale: As Shown Date: Jan. 16, 2013 SHEET No. S-5 OF 26 SHEETS	

SURVEY PLOTTED BY	DATE
DRAWN BY	
DESIGNED BY	
QUANTITIES BY	
CHECKED BY	
ORIGINAL PLAN	
NOTEBOOK	
NO.	

△ **FIBERWRAP GENERAL NOTES**

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	72B-01-13M	2013	ADD. 23	34

1. Provide Tyfo® Fibrwrap® Systems (ICC ESR#2103), Sika CarboDur® and SikaWrap® Systems, or approved equal as indicated at all identified locations in the plans. Alternate FRP composite system shall have a current ICC Evaluation Service Report compliant with the 2009 IBC and shall submit stamped calculations verifying equivalency to the specified detail.
2. The onsite supervisor, foreman and saturation/mixing technician shall provide written verification from the material manufacturer as being trained and certified to install the proposed system.
3. Composite system applicator shall submit witness panels prepared at the jobsite for materials testing (ASTM D3039). The testing (at the Engineer's discretion) shall be done by an independent testing laboratory to verify all submitted design properties. Testing shall be paid for by the Contractor. Field test results that are lower than the design properties submitted shall require the Contractor to pay for remedial measures to be approved by the Engineer.
4. Contractor shall refer to Special Provisions Section 510 "Externally Bonded Fiber Reinforced Polymer (FRP) Strengthening System."
5. Special Inspection: Provide a Certified Special Inspector, trained and certified by the FRP system manufacturer and approved by the Engineer. The Certified Special Inspector shall not be an employee of the Contractor or be financially associated with the Contractor beyond the inspection contract. The Certified Special Inspector shall perform inspections in accordance with the Special Provisions and ICC ES AC178.

SURVEY PLOTTED BY	DATE
DRAWN BY	
DESIGNED BY	
QUANTITIES BY	
CHECKED BY	
ORIGINAL PLAN	
NOTBOOK	
No.	

 THIS WORK WAS PREPARED BY ME ON BEHALF OF SUPERVISOR. <i>Norman K. Nagamine</i>	△ 2/20/13 DATE	Revised Fiberwrap General Notes REVISION
	STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION FIBERWRAP GENERAL NOTES KALANIANA'OLE HIGHWAY Emergency Repairs of Ihiihilauakea Bridge Project No. 72B-01-13M Scale: None Date: Jan. 16, 2013 SHEET No. 5-20 OF 26 SHEETS	