

LINDA LINGLE
GOVERNOR OF HAWAII



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DEPUTY DIRECTOR

STATE OF HAWAII
DEPARTMENT OF LAND AND NATURAL RESOURCES
COMMISSION ON WATER RESOURCE MANAGEMENT
P.O. BOX 621
HONOLULU, HAWAII 96809

STAFF SUBMITTAL

for the meeting of the
COMMISSION ON WATER RESOURCE MANAGEMENT

April 21, 2010
Honolulu, Hawaii

Application for After-the-Fact Stream Channel Alteration Permit (SCAP.2601.3)
Emergency Repair of Numana Street Bridge, Kalihi Stream
Kalihi, Oahu, TMKs: (1) 1-4-009:007, 1-4-017:001, 028 and 033

APPLICANT:

City and County of Honolulu
Department of Design and Construction
650 South King Street, 11th Floor
Honolulu, HI 96813

LANDOWNERS:

Robert and Camille Robins
2845 Numana Road
Honolulu, HI 96819 (007)

Manuel and Josephine Pascual
2850 Numana Road
Honolulu, HI 96819 (001)

Condominiums
2866 Numana Road
Honolulu, HI 96819 (0028)

Kyodai Gardens
2861 Numana Road
Honolulu, HI 96819 (0033)

SUMMARY OF REQUEST:

After-the-Fact Application for a Stream Channel Alteration Permit (SCAP.2601.3) for emergency repair of Numana Street Bridge across Kalihi Stream in Kalihi, Oahu at TMKs: (1) 1-4-009:007, 1-4-017:001, 028 and 033.

LOCATION: Exhibits 1a and 1b.

BACKGROUND:

The Numana Road Bridge is regularly inspected, and in January 2008 accelerated deterioration of bridge members was reported to the City. Because of the severe corrosion and poor condition of the bridge, the City and County of Honolulu deemed this was an emergency repair project.

On May 30, 2008, the consultant for the City requested an emergency authorization from the Commission for emergency repairs to the Numana Street Bridge.

In June 2008, the City posted signs to reduce the weight limit of the bridge to four tons and requested for design proposals.

On June 5, 2008, the Commission staff issued an emergency authorization to the City and County of Honolulu for emergency repairs to the Numana Street Bridge. (Exhibit 2.)

In July 2008, the City approved emergency design funding for the project.

On August 8, 2008, the City issued a notice-to-proceed to its consultant for design which took about eight months to complete.

In April 2009, the design was completed, and the City bid out the construction contract.

In May 2009, the City approved the construction funding and awarded the construction contract.

On June 4, 2009, the City requested approval from adjacent property owners for the construction staging area.

On August 2, 2009, the property owners signed a consent with the City.

On August 24, 2009, the City issued a notice to proceed for the construction work.

From September 2009 to December 2009, the City's contractor repaired the bridge to keep it in service for at least four years until a permanent deck replacement can be completed and constructed.

On February 25, 2010, the consultant for the City and County of Honolulu submitted an After-the-Fact Application for a Stream Channel Alteration Permit for the emergency repair of the Numana Road Bridge in Kalihi, as directed by the June 5, 2008, staff emergency authorization.

DESCRIPTION:

The bridge repair consisted of supplementing the existing beams with new beams without removing the existing beams. The materials used consisted of steel beams, steel and wooden platform and asphalt. Temporary steel and wooden platform supports were placed within the streambed. Sections of the deck and pavement around the center pier and bridge abutments were removed, and new beams were slid between the existing beams. After placement of the new beams, new decking and pavement were installed to replace the removed sections and match the existing profile.

To support the construction work, a temporary platform was installed below the bridge deck extending a minimum of two feet on either side of the bridge. The platform provided a work area for construction workers, and contained debris from the repair work. The platform consisted of ¾-inch plywood sheets on

top of steel scaffolding supports, and posts were placed in the normally dry areas of the stream bed to minimize impacts to stream flow.

Best management practices (BMPs) were utilized to minimize negative impacts during construction. No material was excavated from the stream bed; there was no discharge of dredged or fill material and no disposal of material in the stream bed.

ANALYSIS:

Agency Review Comments:

The Department of Health (DOH) Clean Water Branch (CWB):

- DOH CWB does not condone the issuance of an after-the-fact approval or permit.
- Any construction projects related to water pollutant discharges must comply with Hawaii Administrative Rules (HAR), Chapter 11-54.
- A site-specific construction BMP plan that is properly implemented by the applicant to isolate and confine the construction activities and to contain and prevent potential pollutant(s) discharges from adversely impacting the State waters complies with HAR, Chapter 11-54 requirements.

City and County Department of Planning and Permitting:

- The project is not located in the Special Management Area (SMA) and is not subject to a SMA use permit requirements.
- The project is located within the AE floodway district. The applicant shall certify that the work completed will not result in any increase to the regulatory flood elevations.
- The applicant is responsible for compliance with environmental assessment requirements of Chapter 343, HRS.
- The project does not involve any grading and is not subject to the City's grading ordinance.

The Department of Hawaiian Home Lands had no objections to the project.

The U.S. Army Corps of Engineers, U.S. Fish and Wildlife Service, City and County of Honolulu, Office of Hawaiian Affairs, and the University of Hawaii Environmental Center did not submit comments as of the date of preparation of this submittal.

DLNR Review Comments:

- Division of Aquatic Resources: previously commented that Kalihi Stream provided habitats for six species of native macrofauna including four native fish species and two native crustaceans, as well as habitat for two native damsel flies.
- Land Division: the streambed and surrounding lands are privately owned; accordingly, no permits are required from the Land Division.
- State Parks and Forestry and Wildlife: had no objections.

The Engineering Division and Historic Preservation Division did not submit comments as of the date of preparation of this submittal.

Staff Review

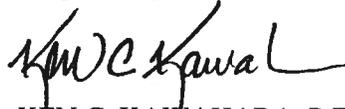
The applicant utilized BMPs for the project to minimize negative impacts during construction. There was no excavation of material from the stream bed, no discharge of dredged or fill material, and no disposal of material in the stream bed.

The applicant generally followed the Commission’s emergency procedures for stream channel alteration permits, requested and received emergency authorization from the Commission for emergency repair to the Numana Street Bridge. The design for the emergency repair work took eight months; the acquisition of the staging area took two months, and the repair work took four months. The applicant did not notify Commission staff after initiation of the emergency repair and did not submit the report describing the emergency repair within 30 days after notifying Commission staff per Hawaii Administrative Rules, Section 13-168-55. The applicant did submit an after-the-fact application for a SCAP after the emergency repair was completed, as directed by the June 5, 2008, staff emergency authorization. Consequently, staff believes that the circumstances of this case do not warrant any penalties or fines.

RECOMMENDATION:

That the Commission approve an after-the-fact Stream Channel Alteration Permit (SCAP.2601.3) for the emergency repair of Numana Street Bridge across Kalihi Stream in Kalihi, Oahu at TMKs: (1) 1-4-009:007, 1-4-017:001, 028 and 033. The permit shall be subject to the Commission’s standard conditions in Exhibit 5. Standard conditions 4 to 8 do not apply to this permit.

Respectfully submitted,


KEN C. KAWAHARA, P.E.
Deputy Director

- Exhibits: 1. Location Maps 1a and 1b
- 2. Emergency Authorization
- 3. Construction Plans
- 4. Photos of Bridge and Repairs
- 5. Standard Stream Channel Alteration Permit Conditions

APPROVED FOR SUBMITTAL:


LAURA H. THIELEN
Chairperson

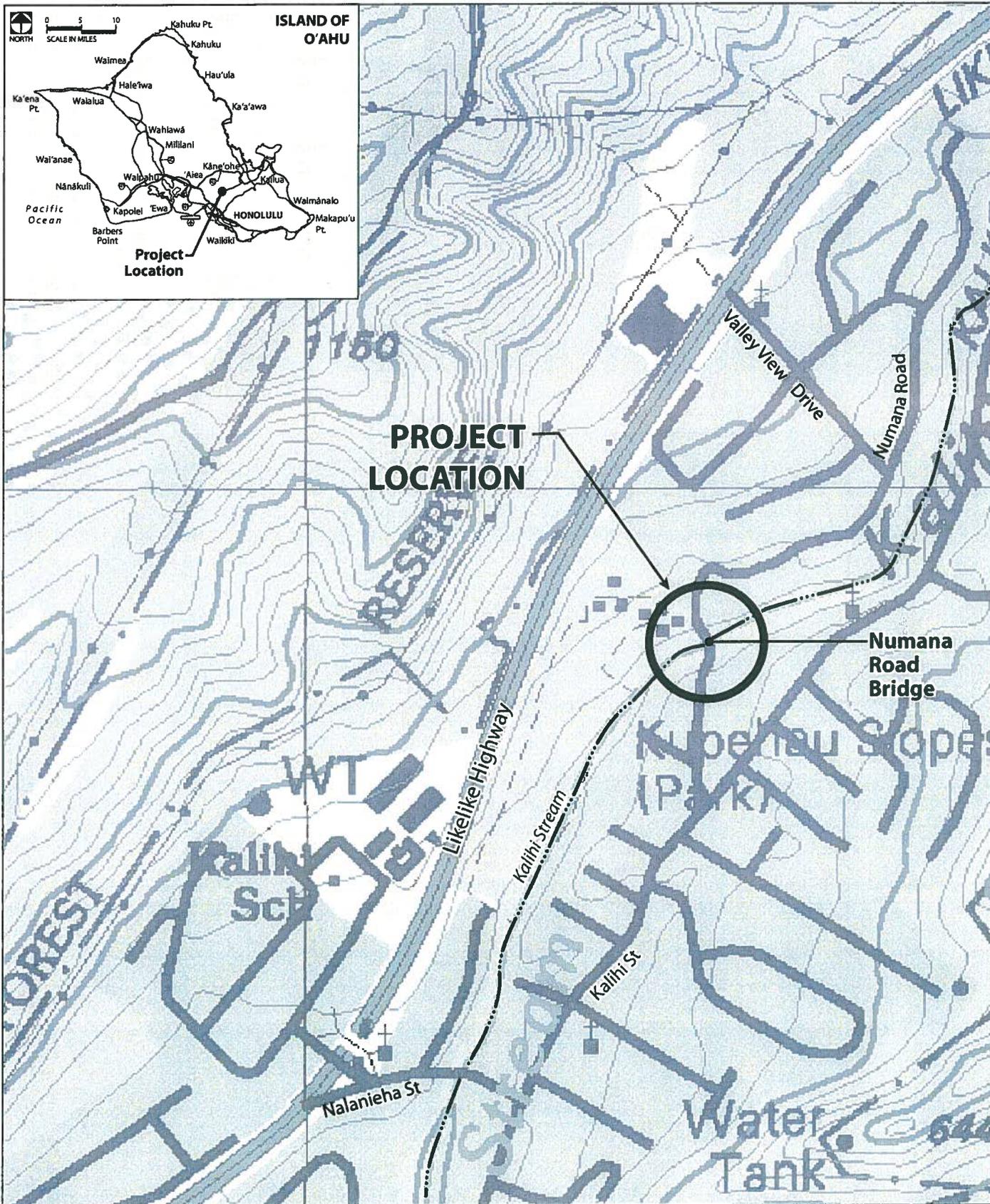


Figure 1
PROJECT LOCATION

Numana Road Bridge
January 2010

EXHIBIT 1

LINDA LINGLE
GOVERNOR OF HAWAII



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STATE OF HAWAII
DEPARTMENT OF LAND AND NATURAL RESOURCES
COMMISSION ON WATER RESOURCE MANAGEMENT
P.O. BOX 621
HONOLULU, HAWAII 96809

June 5, 2008

Ref.: EA.1935.3

Mr. Jon M. Young, P.E.
Project Manager
Belt Collins Hawaii Ltd.
2153 North King Street, Suite 200
Honolulu, HI 96819

Dear Mr. Young:

EMERGENCY AUTHORIZATION
Repair of Numana Street Bridge over Kalihi Stream
Honolulu, Oahu, TMK: (1) 1-4-017:028

We acknowledge your email request dated May 30, 2008, and hereby issue an emergency authorization to repair Numana Street Bridge over Kalihi Stream, Honolulu, Oahu, TMK: (1) 1-4-017:028.

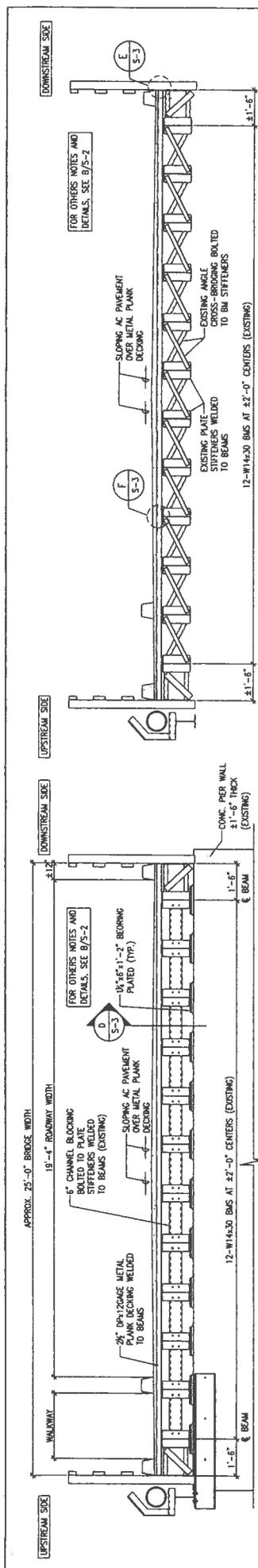
Hawaii Administrative Rules, Section 13-169-55, provides for emergency work and states:

§13-169-55 Emergency work

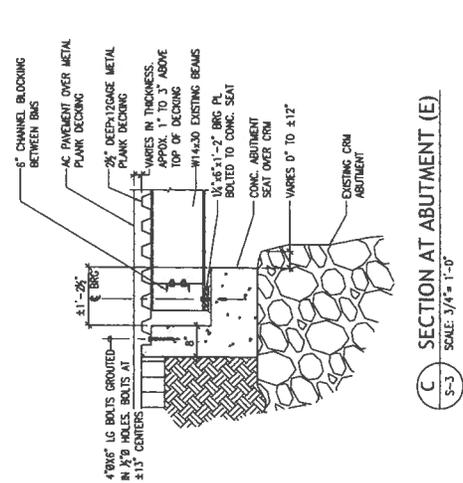
- (a) *When emergency channel alteration is necessary to prevent or minimize loss of life or damage to property, including the repair or restoration of structures damaged by a sudden and unforeseen event, a person may proceed to effect the channel alteration without a permit.*
- (b) *In general, protective, health, and sanitation measures shall be limited to the minimum amount necessary to remove immediate threats to health and safety or to prevent immediate or further damage to property, and emergency repairs or restoration of structures shall be based on their replacement by a minimum facility of the same general type.*
- (c) *No later than the first working day after initiation of any emergency work, the person effecting the work shall notify the department and describe the nature and circumstances of the remedial work so that the department may issue an emergency authorization.*
- (d) *Within thirty days of his notification to the department, the person effecting the emergency work shall submit to the commission a report describing the nature and extent of the emergency work performed, including relevant maps and diagrams showing the location and details of the channel alteration completed.*
- (e) *No fee will be required for the filing of a report for emergency channel alteration work. [Eff. MAY 27, 1988] (Auth: HRS §174C-8) (Imp: HRS §§174C-5, 174C-71)*

EXHIBIT 2

FILE ID:	EA.1935.3
DOC ID:	2661

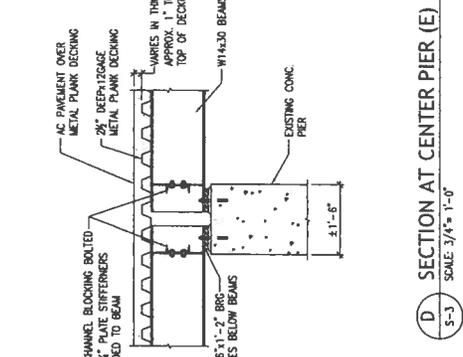


A NORTH ELEVATION OF CENTER PIER
SCALE: 1/2" = 1'-0"



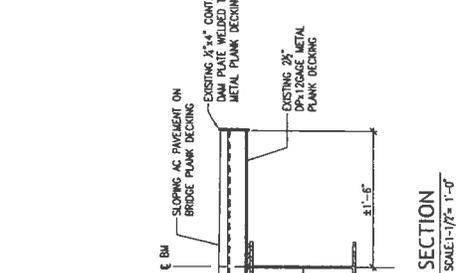
C SECTION AT ABUTMENT (E)
SCALE: 3/4" = 1'-0"

B SECTION NEAR AT 1/3 POINT BRIDGING
SCALE: 1/2" = 1'-0"



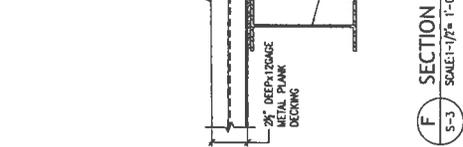
D SECTION AT CENTER PIER (E)
SCALE: 3/4" = 1'-0"

E SECTION NEAR AT 1/3 POINT BRIDGING
SCALE: 1/2" = 1'-0"



E SECTION NEAR AT 1/3 POINT BRIDGING
SCALE: 1/2" = 1'-0"

F SECTION NEAR AT 1/3 POINT BRIDGING
SCALE: 1/2" = 1'-0"



F SECTION NEAR AT 1/3 POINT BRIDGING
SCALE: 1/2" = 1'-0"

DEPARTMENT OF DESIGN AND CONSTRUCTION
OFFICE OF THE CHIEF ENGINEER
CIVIL DIVISION

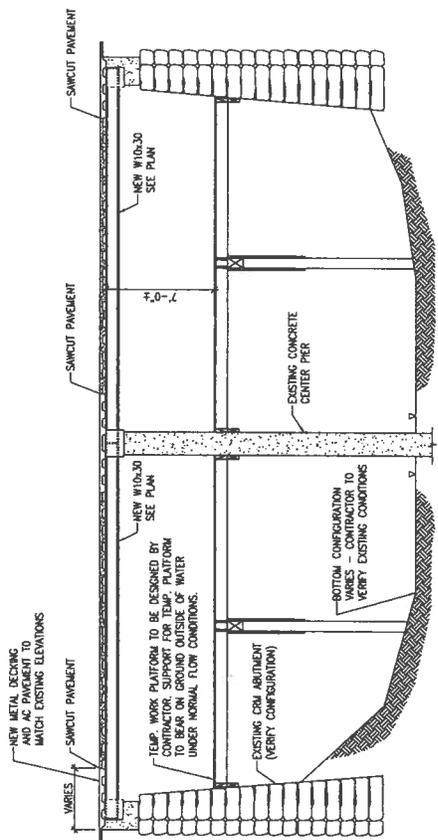
EMERGENCY REPAIRS AT
NUMANA ROAD BRIDGE #129
HONOLULU, OAHU, HAWAII

DESIGNER: SH
DRAWN: ZR
CHECKED: WY
DATE: NOV. 2008
PROJECT NO.: FILE NO.: DRAW NO.: TOLERANCE NUMBER

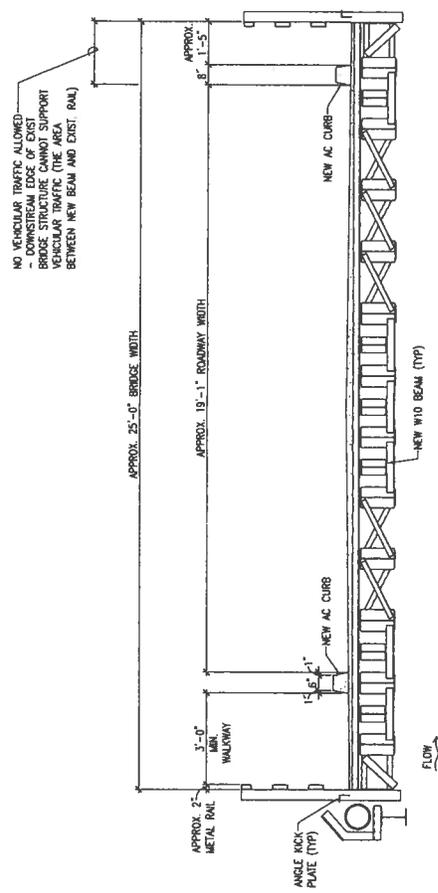
APPROVED: *[Signature]*

REGISTERED PROFESSIONAL ENGINEER
No. 8178-S
EXPIRES APRIL 30, 2010

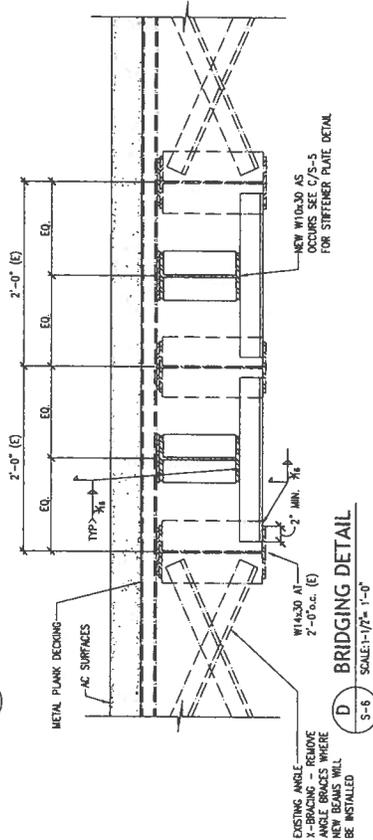
15-3
SHEET
OF 23 SHEETS



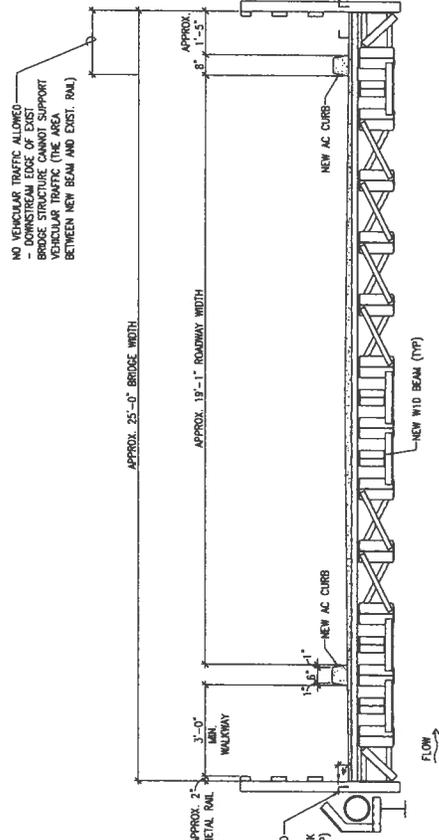
A SECTION
SCALE: 1/4" = 1'-0"



B SECTION THRU SOUTH BAY
SCALE: 1/2" = 1'-0"



D BRIDGING DETAIL
SCALE: 1/2" = 1'-0"



C SECTION THRU NORTH BAY
SCALE: 1/2" = 1'-0"

DESIGNER: WH	CHECKED: WH	DATE: MAY, 2008	PROJECT NO. -
DRAWN: LE	CHECKED: WH	DATE: MAY, 2008	PROJECT NO. -
DEPARTMENT OF DESIGN AND CONSTRUCTION CIVIL DIVISION EMERGENCY REPAIRS AT NUMANA ROAD BRIDGE #129 HONOLULU, OAHU, HAWAII			
		APPROVED: DATE: MAY, 2008	
LICENSE NO. 41781-1 WILLIAM E. MYER PROFESSIONAL ENGINEER STATE OF HAWAII		SHEET S-6 OF XX SHEETS	

Site Photographs



Numana Road Bridge before construction looking southeast, August 2008



Downstream elevation of bridge, August 2008



Deteriorating bridge supports, August 2008

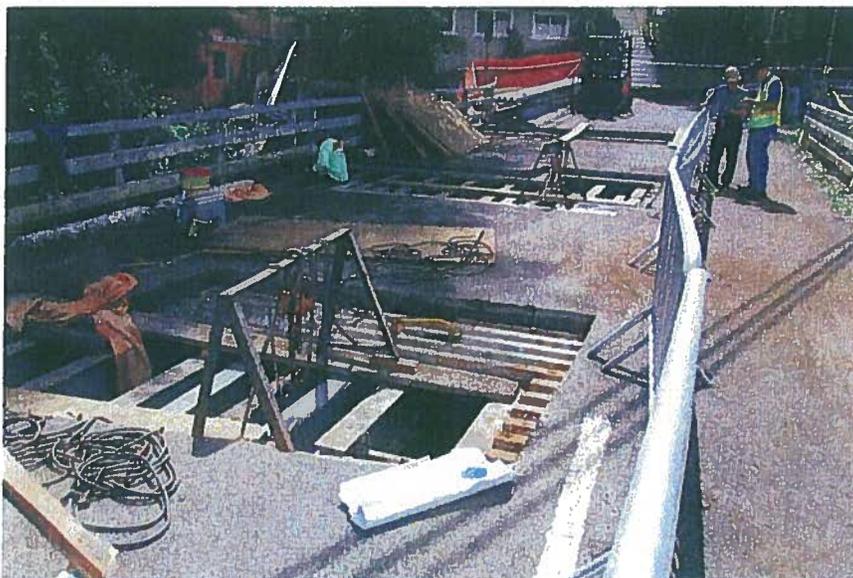


Photo during construction of steel beams set into place, October 2009 (from site report, Shigemura, Lau, Skanashi, Higuchi & Associates, Inc)



Scaffolding and platform under bridge during construction, December 2009

STANDARD STREAM CHANNEL ALTERATION PERMIT CONDITIONS
(Revised 9/19/07)

1. The permit application and staff submittal approved by the Commission at its meeting on April 21, 2010, shall be incorporated herein by reference.
2. The applicant shall comply with all other applicable statutes, ordinances, and regulations of the Federal, State and county governments.
3. The applicant, his successors, assigns, officers, employees, contractors, agents, and representatives, shall indemnify, defend, and hold the State of Hawaii harmless from and against any claim or demand for loss, liability, or damage including claims for property damage, personal injury, or death arising out of any act or omission of the applicant or his successors, assigns, officers, employees, contractors, and agents under this permit or related to the granting of this permit.
4. The applicant shall notify the Commission, by letter, of the actual dates of project initiation and completion. The applicant shall submit a set of as-built plans and photos of the completed work to the Commission upon completion of this project. This permit may be revoked if work is not started within six (6) months after the date of approval or if work is suspended or abandoned for six (6) months, unless otherwise specified. The proposed work under this stream channel alteration permit shall be completed within two (2) years from the date of permit approval, unless otherwise specified. The permit may be extended by the Commission upon showing of good cause and good-faith performance. A request to extend the permit shall be submitted to the Commission no later than three (3) months prior to the date the permit expires. If the commencement or completion date is not met, the Commission may revoke the permit after giving the permittee notice of the proposed action and an opportunity to be heard:
5. Before proceeding with any work authorized by the Commission, the applicant shall submit one set of construction plans and specifications to determine consistency with the conditions of the permit and the declarations set forth in the permit application.
6. The applicant shall develop site-specific, construction best management practices (BMPs) that are designed, implemented, operated, and maintained by the applicant and its contractor to properly isolate and confine construction activities and to contain and prevent any potential pollutant(s) discharges from adversely impacting state waters. BMPs shall control erosion and dust during construction and schedule construction activities during periods of low stream flow.
7. The applicant shall protect and preserve the natural character of the stream bank and stream bed to the greatest extent possible. The applicant shall plant or cover lands denuded of vegetation as quickly as possible to prevent erosion and use native plant species common to riparian environments to improve the habitat quality of the stream environment.
8. In the event that subsurface cultural remains such as artifacts, burials or deposits of shells or charcoal are encountered during excavation work, the applicant shall stop work in the area of the find and contact the Department's Historic Preservation Division immediately. Work may commence only after written concurrence by the State Historic Preservation Division.