

State of Hawaii
DEPARTMENT OF LAND AND NATURAL RESOURCES
ENGINEERING DIVISION
P.O. Box 373
Honolulu, Hawaii 96809

ADDENDUM NO. 1

TO

JOB NO. F80C661C
KALALAU TRAIL ROCKFALL MITIGATION
NAPALI COAST STATE WILDERNESS PARK, KAUAI, HAWAII

April 28, 2016

This addendum, as issued shall become part of the Contract Documents, for the subject project.

PRE-BID CONFERENCE

A pre-bid conference and site visit was held on April 21, 2016 at 11 a.m. at the project site at the Kalalau Trail Head. See attached Minutes of Meeting.

ENGINEERING DIVISION



CARTY CHANG, P.E.
Chief Engineer

Minutes of Meeting:

Date: April 21, 2016 at 11 a.m.
Place: Napali Coast State Wilderness Park, Haena, Kauai
Re: Pre-bid Conference Meeting Minutes for Job No. F80C661C
Kalalau Trail Rockfall Mitigation
Attendees: See attached sign-in sheet.

The meeting was opened by Brian Chang, project engineer, who introduced the project. Ardalan Nikou of AECOM provided the general project description and scope of work. Alan Carpenter of DLNR Division of State Parks also provided general history and background of the project area.

Project Overview:

The work shall consist of improvements to two (2) rock outcrop sites located along the Kalalau Trail. Improvements include construction of shotcrete pedestals with steel reinforcing, shotcrete sculpting, and installation of grouted rock bolt anchors. Both sites are located within DLNR property and require a short steep hike to access the project areas.

Site 1 includes two boulders that will require a shotcrete pedestal and three (3) rock bolt anchors. One boulder is a large protruding rock with a large overhang and opened back fracture. The other boulder rests behind it and likely provides support to the other boulder. Site 2 includes one large standing rock with opened back fracture and some overhanging features. This boulder will only require a shotcrete pedestal.

The following questions/comments were raised at the pre-bid conference and the responses are hereby provided:

- What are the requirements for pedestrian traffic control during the work day and flexibility of the 10 minute maximum trail closure requirement?
 - *Contractor may choose to close the trail for up to three (3) consecutive days to facilitate the contract work. Any trail closures shall be coordinated in advance and approved by the State Parks. During park closures, trail shall remain accessible for users to safely exit the trail from Kalalau Beach Park.*
- There are many historic features near the project areas including the trail, a historic cabin located below the trail, and Native Hawaiian cultural sites located below the trail. How will the historic areas be protected?
 - *Contractor shall submit a work method statement detailing proposed methods of protection of the trail, surrounding historical features, features below the trail, and detailed contingencies in the event of damage to existing boulders or historical features.*
 - *The work method statement shall be submitted to the Engineer for approval prior to the start of the work.*

- The trail is fairly narrow and the amount of space for work and equipment staging is very limited. Where will the Contractor stage their equipment and how will large equipment be mobilized to the site?
 - *Contractor shall coordinate staging locations with the Engineer.*
 - *Large equipment such as a compressor can be flown in to the project site via helicopter. The Contractor shall coordinate mobilization with the Engineer.*
- Where will erosion control BMP's be installed?
 - *Compost filter socks shall be installed around work areas and staging areas per plan and to intercept runoff water going through the project site.*
- Temporary cable lashing shall be installed prior to start of drilling work for rock bolts.
 - *Locations of temporary cable lashing anchors shall be coordinated and approved by the Engineer.*
- Shotcrete sculpting shall match existing geology, shape, and color of surrounding existing features.
 - *Contractor shall submit a sculpted test panel for approval by the Engineer prior to the start of the work.*
- Revise detail for the shotcrete pedestal at Site 2.
 - *A 1'x1' shotcrete lip shall be installed along the bottom of the entire width of the boulder. Additional steel reinforcing mesh shall also be required, see attached detail Sketch No. 1.*
- Rock bolt anchors at Site 1 shall have minimum embedment of 15' per plan.
 - *Subsurface conditions are unknown and therefore additional embedment may be required. Final depth shall be approved by the Engineer prior to grouting.*
 - *Contractor shall exercise care while drilling. Contractor shall submit a detailed plan for rock bolt installation.*

The meeting adjourned at 12:30 p.m.

Submitted by:

Brian Chang, P.E.

Engineering Division

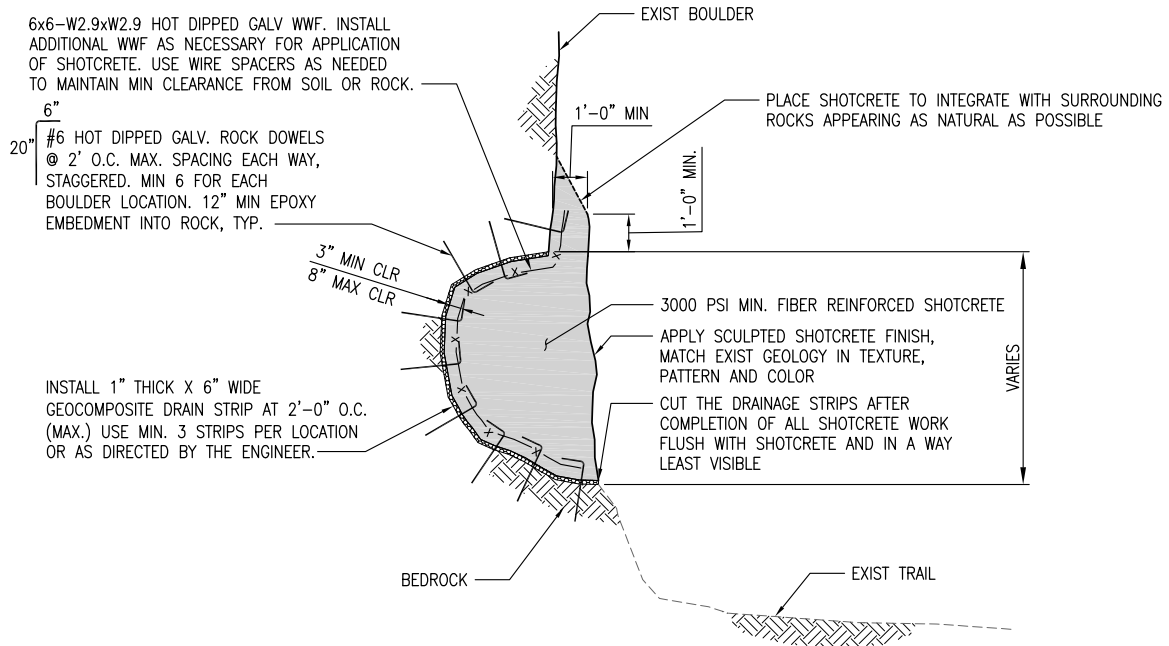
Department of Land and Natural Resources



BOULDER 3
 APPROXIMATE LIMITS OF SHOTCRETE

BOULDER 3 SUMMARY:
 APPROXIMATE SHOTCRETE AREA DIMENSIONS:
 HEIGHT = 5.0'
 WIDTH = 6.0'
 DEPTH = 4.0'

SITE 2 – FRONT VIEW
 NOT TO SCALE



SITE 2 – SCULPTED SHOTCRETE PEDESTAL DETAIL
 NOT TO SCALE

ADDENDUM 1		REVISED DETAIL
REVISION NO.	SYM.	DESCRIPTION

SIGN-IN SHEET

PRE-BID CONFERENCE/SITE VISIT

Job Number: F80C661C

Date: April 21, 2016

Job Title: Kalalau Trail Rockfall Mitigation, Napali Coast State Wilderness Park, Kauai

	<u>Name</u>	<u>Company</u>	<u>Email Address</u>	<u>Phone</u>
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3	Noah Wong	AECOM	Noah.Wong@aecom.com	529-7282
4	Ryan Okahashi	AECOM	ryan-okahashi@aecom.com	
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11	Brian McMahon	Prometheus	Brian@prometheusconstruction.com	
12	Holly McEldowney	DLNR - Parks	Holly.McEldowney@hawaii.gov	587-0307
13	VICTORIA WICHMAN	DLNR - PARKS	Victoria.L.Wichman@hawaii.gov	353-1974
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Meeting location – Trail Head at Napali Coast State Wilderness Park