

From: [Vernon Uy](#)
To: [Green, Frank;](#)
cc: [Daly, Keith; Peppers, Nicki;](#)
Subject: Contract 8078 - Pile Demolition Plan submittal
Date: Tuesday, February 01, 2011 4:20:07 PM
Attachments: [PileDemolition&SafetyPlan.pdf](#)
[TransmittalSheet.pdf](#)

Hi Frank.

Attached you'll find our Pile Demolition (& Safety) Plan submittal. Hard copies are in the mail.

Thanks.

Vernon Uy
American Construction Company, Inc.
(425) 870-3217

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**I-5, COLUMBIA RIVER BRIDGE TEMPORARY PILE
TEST PROGRAM - WA 0.3 TO OR MP 308.0
(Contract #8078)**

Pile Demolition Plan

CONTRACTOR:

**American Construction Company, Inc.
1501 Taylor Way
Tacoma, WA 98421**

DATE:

2/1/11

PILE DEMOLITION EQUIPMENT LIST

The demolition equipment list for the I-5, Columbia River Bridge Temporary Pile Test Program project (Contract #8078) is as follows:

- Floating Crane "Patriot", 180-ton capacity crane on a 70' x 140' x 13'-6" barge, equipped with 2 spuds, deck winches, and 140-ft crane boom
- Flat Deck Barge, 40' x 197' x 15' barge for piling and equipment storage
- Model 400 vibratory driver/extractor (13,000 in-lbs). Equipped with an 8-ft caisson beam, two (2) Model 200 caisson clamps, hydraulic hoses and power unit. The same vibratory hammer will be used for both pile sizes (24" OD and 48" OD).
- Crewboat "Courage"
- Workskiff, 16-ft boat with 25-HP outboard motor
- F-150 and F-250 pick up trucks
- Welding machine, torch, rigging, small tools

PILE DEMOLITION PLAN (Primary)

Following completion of load testing and test pile inspections, all piles will be removed and disposed/salvaged. The primary removal method will be extraction using the Model 400 vibratory hammer. Piles will be extracted out one at a time, in full lengths. Extracted piles will be staged back on the flat-deck barge.

The same vibratory hammer will be used to extract both 48" OD and 24" OD pipe piles. Caisson clamps on the 8-ft caisson beam will be adjusted to fit the size of the pile to be pulled.

During extraction, the piling will be rigged for safety. This means that there will be a dedicated line off the crane that will be hooked up to the piling at all times during the extraction process.

PILE DEMOLITION PLAN (Alternate)

In the event that a test pile cannot be extracted completely using the vibratory hammer, the pile will be cut off 2 feet below the mudline. Divers will be used to do the underwater "digging" and cutting (by torch).

Prior to cutting, the pile will be surveyed for as-built location. Location of the center of the pile (above the water level) will be surveyed from the river bank. If the pile is out-of-plumb, the batter angle of the pile will be measured in order to locate the pile at mudline elevation.

Piles will be cut and removed one at a time. Extracted pile section will be staged back on the flat-deck barge. During extraction, the piling will be rigged for safety. This means that there will be a dedicated line off the crane that will be hooked up to the piling at all times during the extraction process. There will be radio communication with the divers and our crew at all times during demolition.

Marine Construction Dredging Pile Driving

1501 Taylor Way • Tacoma, Washington 98421

PHONES: Tacoma (253) 254-0118,

Seattle (206) 623-0114,

Fax (253) 254-0155



**AMERICAN
CONSTRUCTION COMPANY**

CONTRACTORS LIC NO. 223-01-AM-ER-IC*372 NO.

TO:

Columbia River Crossing Project Office
700 Washington Street, Suite 300
Vancouver, WA 98660

Attn: Frank Green, P.E.

DATE: February 1, 2011

JOB #: MC 02-11

TITLE: Columbia River Bridge Temporary
Pile Test Program (#8078)

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AMERICAN CONSTRUCTION COMPANY, INC.

BY:

Vernon Uy