



U.S. Department
of Homeland Security
**United States
Coast Guard**

LOCAL NOTICE TO MARINERS

District: 13

Week: 37/16

ISSUED BY: COMMANDER, THIRTEENTH COAST GUARD DISTRICT (dpw)
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<http://www.navcen.uscg.gov/?pageName=lnmDistrict®ion=13>

COMDTPUB P16502.6, Light List Volume VI, 2016 Edition and Coast Pilot Volume 7, 2016.
Coast Pilots, along with corrections, are available at: <http://www.nauticalcharts.noaa.gov/nsd/cpdownload.htm>.

UNITED STATES COAST GUARD NAVIGATION INFORMATION SERVICE (NIS)

The United States Coast Guard Navigation Information Service (NIS), operated by the USCG Navigation Center, is staffed 24 hours a day, 7 days a week. The NIS provides information on the current operational status, effective policies, and general information for GPS and DGPS. The NIS also disseminates Safety Broadcasts / Broadcast Notice to Mariners (BNM), Local Notice to Mariners (LNM), and the latest Notice Advisory to Navstar Users (NANU). NANU notices can also be obtained via e-mail subscription through the USCG Navigation Center website:

<http://www.navcen.uscg.gov/?pageName=GPS>.

In addition, the NIS investigates all reports of degradation or loss of GPS or DGPS service. Mariners are encouraged to report all degradation of radio navigation services to the NIS via any of the following: Phone: 703-313-5900, Email: webmaster@navcen.uscg.mil, or on the World Wide Web: <http://www.navcen.uscg.gov>.

BROADCAST NOTICE TO MARINERS

This section contains a range of all the significant Broadcast Notice to Mariners (BNM's) on the date of this edition.

Originating Unit	Beginning BNM	Ending BNM
CGD THIRTEEN	D13-0793-16	D13-0813-16

ABBREVIATIONS

A through H

ADRIFT - Buoy Adrift
AICW - Atlantic Intracoastal Waterway
AI - Alternating
B - Buoy
BKW - Breakwater
bl - Blast
BNM - Broadcast Notice to Mariner
bu - Blue
C - Canadian
CHAN - Channel
CGD - Coast Guard District
C/O - Cut Off
CONT - Contour
CRK - Creek
CONST - Construction
DAYMK/Daymk - Daymark
DBN/Dbn - Daybeacon
DBD/DAYBD - Dayboard
DEFAC - Defaced
DEST - Destroyed
DISCON - Discontinued
DMGD/DAMGD - Damaged
ec - eclipse
EST - Established Aid
ev - every
EVAL - Evaluation
EXT - Extinguished

I through O

I - Interrupted
ICW - Intracoastal Waterway
IMCH - Improper Characteristic
INL - Inlet
INOP - Not Operating
INT - Intensity
ISL - Islet
Iso - Isophase
kHz - Kilohertz
LAT - Latitude
LB - Lighted Buoy
LBB - Lighted Bell Buoy
LHB - Lighted Horn Buoy
LGB - Lighted Gong Buoy
LONG - Longitude
LNM - Local Notice to Mariners
LT - Light
LT CONT - Light Continuous
LTR - Letter
LWB - Lighted Whistle Buoy
LWP - Left Watching Properly
MHz - Megahertz
MISS/MSNG - Missing
Mo - Morse Code
MRASS - Marine Radio Activated Sound Signal
MSLD - Misleading
N/C - Not Charted

P through Z

PRIV - Private Aid
Q - Quick
R - Red
RACON - Radar Transponder Beacon
Ra ref - Radar reflector
RBN - Radio Beacon
REBUILT - Aid Rebuilt
RECOVERED - Aid Recovered
RED - Red Buoy
REFL - Reflective
RRL - Range Rear Light
RELIGHTED - Aid Relit
RELOC - Relocated
RESET ON STATION - Aid Reset on Station
RFL - Range Front Light
RIV - River
RRASS - Remote Radio Activated Sound Signal
s - seconds
SEC - Section
SHL - Shoaling
si - silent
SIG - Signal
SND - Sound
SPM - Single Point Mooring Buoy
SS - Sound Signal
STA - Station
STRUCT - Structure

F - Fixed
fl - flash
Fl - Flashing
G - Green
GIWW - Gulf Intracoastal Waterway
HAZ - Hazard to Navigation
HBR - Harbor
HOR - Horizontal Clearance
HT - Height

NGA - National Geospatial-Intelligence Agency
NO/NUM - Number
NOS - National Ocean Service
NW - Notice Writer
OBSCU - Obscured
OBST - Obstruction
OBSTR - Obstruction
Oc - Occulting
ODAS - Anchored Oceanographic Data Buoy

St M - Statute Mile
TEMP - Temporary Aid Change
TMK - Topmark
TRLB - Temporarily Replaced by Lighted Buoy
TRLT - Temporarily Replaced by Light
TRUB - Temporarily Replaced by Unlighted Buoy
USACE - Army Corps of Engineers
W - White
Y - Yellow

Additional Abbreviations Specific to this LNM Edition:

AIS - Automatic Identification System
LLNR - Light List Number
NM - Nautical Miles
CPA - Closest Point of Approach
RM - River Mile Marker

V-AIS - Virtual AIS
VTS - Vessel Traffic Service
WSDOT - Washington State Department of Transportation
NUWC - Naval Undersea Warfare Center
RAC - Racon

AtoN - Aids to Navigation
COTP - Captain of the Port
ODOT - Oregon Department of Transportation

SECTION I - SPECIAL NOTICES

This section contains information of special concern to the Mariner.

OREGON - IDAHO - WASHINGTON - MONTANA - GPS testing

US Strategic command has is conducting GPS testing encompassing an area of eastern Oregon, Washington and the majority of the state of Idaho and a portion of Montana. The GPS navigation signal may be unreliable due to testing on GPS frequencies used by shipboard navigation and handheld systems. Systems that rely on GPS, such as e-911, AIS and DSC, may be affected. The center point of the test is 42° 22.73'N 115° 45.21'W, with a radius of 356 NM. GPS testing would occur on GPS frequencies L1 and L2 on the following dates:

01 Nov 16: 0000Z-0230Z and 1730Z-2359Z
02 Nov 16: 0000Z-0330Z and 1730Z-2359Z
03 Nov 16: 0000Z-0130Z and 1730Z-2359Z
04 Nov 16: 0000Z-0130Z and 1730Z-2359Z

More information is available at the U.S. Coast Guard Navigation Center web site, www.navcen.uscg.gov. During this period GPS users are encouraged to report any GPS service outages that they may experience to the Navigation Information Service by calling 703-313-5900 or by using the Navigation Center's web site to submit a GPS problem report.

LNM: 37/16

OREGON - IDAHO - WASHINGTON - MONTANA - NOAA FTPMail Service Upgrade/Transition

A change has been made to the email address used for obtaining weather products via the National Weather Service FTPMail service. The NWS FTPMail was established primarily for mariners who have limited World Wide Web access but maintain the ability to interface with NWS through email services. The NWS FTPMail service allows users to request and receive weather products through a simple mail transfer protocol. By using FTPmail, a user's request is automatically sent as either an attachment or content of an email message on as needed. Further information for the FTPMail service can be obtained from the following web site: http://www.nws.noaa.gov/tg/ftpmail_using.php. As part of the upgrade, the email address used by our partners to request weather product(s) will be changed. The following email address will be operational on Wednesday, September 7, 2016. New FTPMail Service Email Address: NWS.FTPMail.OPS@noaa.gov. As a reminder, you must configure your email system to allow messages originating from NWS.FTPMail.OPS@noaa.gov to prevent accidental deletion. For additional information contact Mr. Kevin Conaty at 301-427-9169 or email kevin.conaty@noaa.gov.

LNM: 37/16

COLUMBIA RIVER AND SNAKE RIVER - APPLETON DGPS SITE - DGPS off-air time

The U.S. Coast Guard Navigation Center has approved off-air time for the Appleton, WA, DGPS site to conduct preventive maintenance from 0900 until 1100 on 24 Oct 16, with an alternate date of 0900 until 1100 on 25 Oct 16. There will be a minimal loss of coverage during these times. For additional information or objections, contact the USCG Navigation Center DGPS Operations at (703) 313-5902 or <http://www.navcen.uscg.gov/?pageName=dgpsSiteInfo¤tOutages>.

LNM: 37/16

SNAKE RIVER - LOWER GRANITE LAKE - LOWER GRANITE RESERVOIR - Juvenile Sturgeon Survey

Idaho Power is conducting a survey of juvenile sturgeon on the Snake River in Lower Granite Lake from RM 110.9 to RM 138.5 from 03 Oct 16 through 30 Nov 16. The survey will consist of up to 4 sinking style nets that will be positioned on the lake bottom spaced 0.1 miles from each

other. The nets may be positioned across the navigation channel over a space of 0.4 miles, and the top of the nets will maintain a vertical clearance of 29 feet. Each net will be marked with at least one fluorescent red buoy at one end of the net with the number 14-267a. The opposite end buoy will be submerged when the net is near the navigation channel. This study will take place only during weekdays and during daylight or night time hours. Night time nets will be marked with white flashing lights (FI 2s). The nets will be attended by a 25 foot vessel with "Fisheries Research" placards, which will monitor VHF FM Channel 13, and will answer to "Idaho Power Survey Vessel" when hailed. All nets will be removed from the channel within 20 minutes upon request. For additional information, contact Idaho Power Environmental Department at Mr. Phil Bates 208-866-4894 or email pbates@idahopower.com.

Chart 18548

LNM: 37/16

IDAHO - LAKE COEUR D'ALENE - LAKE PEND OREILLE - Bridge Notice

The Burlington Northern Santa Fe Railroad Bridge 32 (LLNR 20087), Lake Pend Oreille mile 2.7, at Sandpoint, ID, will have inspection and repair work conducted through the winter. The work includes the approach piers to the north of the navigation span. The working hours will be from 0600 until 2000 seven days a week. Tug Josephine will position a barge C.E. Kramer at the bridge. The C.E. Kramer will remain moored at the work site until repairs have been completed. The C.E. Kramer will have navigation lights and day marks in accordance with the Navigation Rules (COLREGS-Inland). The point of contact for the C.E. Kramer is Charlie Kramer at (208) 946-6820. Scaffolding will be installed under the bridge, and the vertical clearance will be reduced from 15 feet to 11 feet one span at a time. The C.E. Kramer will moor under the span with scaffolding. Enclosure (7) shows the location of the bridge and work plan. Mariners may transit under the bridge span with no active working, but at minimum safe speed. For additional information contact Mr. Alan Bloomquist, P.E. at 913-449-5451 or email Alan.Bloomquist@BNSF.com.

Chart 18554

LNM: 37/16

OREGON – PORT OF PORTLAND – WILLAMETTE RIVER – Bridge Notice

The U.S. Coast Guard has issued a temporary deviation from the operating schedule that governs the Broadway Bridge (LLNR 14955.2), Burnside Bridge (LLNR 14955.4) and Hawthorne Bridge (LLNR 14955.6) all crossing the Willamette River at Portland, OR. This deviation is to accommodate the Portland Marathon event, and allows the draw spans to remain in the closed-to-navigation position, and need not open for maritime traffic from 0500 to 1500 on 09 Oct 16. The Broadway Bridge, RM 11.7, provides a vertical clearance of 90 feet in the closed position, the Burnside Bridge, RM 12.4, provides a vertical clearance of 64 feet in the closed position, and the Hawthorne Bridge, RM 13.1, provides a vertical clearance of 49 feet in the closed position. All clearances are referenced to the vertical clearance above Columbia River Datum 0.0. Vessels able to pass through the bridges in the closed-to-navigation positions may do so at any time. The bridges will be able to open for emergencies, and there is no immediate alternate route for vessels to pass. The bridges shall operate in accordance to 33 CFR § 117.897 at all other times. For more information, contact Ms. Barbara Blanchard at barbara.c.blanchard@multco.us.

Chart 18526

LNM: 37/16

WASHINGTON - STRAIT OF JUAN DE FUCA ENTRANCE – Quillayute River Wall repairs

Newalen, LLC will start work on the Quillayute River Wall on or about 21 Sep 16. The end date is yet to be determined as weather and tides will affect the work schedule, but no later than 28 Feb 17. Planking on the breakwater timber wall will be replaced as needed on the exterior side of the wall. Operations will be Monday through Sunday, dawn to dusk. Not all days or times may be needed, but based on tides and weather any day of the week could be utilized. The vessel to be used in the is a 22ft landing craft which does not have a name designation. Crew onboard will have both VHF radio as well as cell phones. Crew will be monitoring VHF-FM Ch. 16. The vessel in use will be pinned against the wall and is small enough not to create congestion. For additional information contact Andrea Guild at 509-953-4726 or email Newalen@live.com or Mr. Todd Snyder at 509-941-8200.

Chart 18480

LNM: 37/16

WASHINGTON – BRITISH COLUMBIA – STRAIT OF JUAN DE FUCA TO STRAIT OF GEORGIA – Water properties survey

The Canadian Coast Guard Ship Vector CGGBW will conduct oceanographic operations in the Canadian and U.S. waters of the Strait of Juan de Fuca and the Strait of Georgia from 22 Sep 16 to 28 Sep 16. Operations will include overside casts of scientific equipment that will take measurements of various features of the water column. The anticipated sequencing of the 76 sampling stations, 27 of which are in U.S. waters, is west to east and is weather dependent. Information regarding the positions of the stations can be seen in Enclosure (6). Mariners are requested to maintain a safe distance and minimize wake while Vector is conducting these operations. For additional information contact Mr. Peter Chandler at (250) 363-6750 or email Peter.Chandler@dfo-mpo.gc.ca.

Charts: 18421 18460 18465 18480

LNM: 37/16

WASHINGTON - PUGET SOUND - NORTHERN PART - HOOD CANAL - THORNDYKE BAY - Undersea soil sampling

The Naval Undersea Warfare Center, Keyport, WA, along with the University of Washington will be conducting operations in Thorndyke Bay from 0000 26 Sep 16 to 2400 30 Sep 16. Operations will involve sub-surface soil sample testing using a tethered submerged vehicle. R/V Robertson will be in a 3 point moor in support of the soil sample operations within Thorndyke Bay. All mariners are requested to remain at least 300 yards from R/V Robertson. R/V Robertson will be monitoring VHF-FM Ch. 14 and 16 at all times. For additional information contact the Pacific Northwest Range Management and Operations Division, Range Control Branch, Keyport, WA 360-396-2313.

Chart 18476

LNM: 37/16

OREGON – WILLAMETTE RIVER – PORTLAND TO WALNUT EDDY – Outfall pipe construction

Advanced American Construction is performing construction activities on an outfall pipe located at Willamette River river mile 18.5, near the mouth of Kellogg Creek. Work involves underwater dive operations from floating equipment. While diving, the alpha flag and diver down flags will be displayed. Construction will occur Monday through Friday, 0600 to 1800 13 Sep 16 through 31 Oct 16. The derrick barge DB 4100 will be onsite monitoring VHF-FM Ch. 13 during work hours. The derrick barge or work barges may have anchors deployed near the project site. Anchor locations will be marked by yellow buoys. All barges and crown buoys will be illuminated by steady burning, white lights at night. Mariners are requested to reduce speed, stay 250 feet away from the floating equipment and use extreme caution when transiting the area. For additional information contact Mr. Chandler Coffey at 503-746-3961 or Mr. Mike Johns at 503-720-1108 or MikeJ@callaac.com.

Chart 18528

LNM: 36/16

WASHINGTON – PUGET SOUND – SOUTHERN PART – TACOMA HARBOR – Temporary obstruction of the Puyallup River due to construction (Revised from LNM 35/16)

An outfall pipe will obstruct the Puyallup River for two to six hours on 21 or 22 Sep 16. The obstruction is needed to insert the pipe into a bored tunnel in the river wall as shown in Enclosure (5). Once the pipe is fully installed the pipe will protrude several feet from the river wall. For additional information contact Mr. Craig Almont at 541-913-0437 or email calmont@hamil.com.

Chart 18453

LNM: 36/16

WASHINGTON - LAKE WASHINGTON SHIP CANAL - LAKE WASHINGTON - SR-520 SPECIAL BRIDGE NOTICE - Critical Navigation Notice (Revised from LNM 33/16)

The U.S. Coast Guard has established a temporary safety zone on Lake Washington around the east span of the SR-520 Bridge in Seattle, WA due to ongoing construction. The safety zone is necessary to ensure the safety of the maritime public and workers involved in the bridge construction when construction barges are located in the navigation channel under the east span of the bridge. The safety zone will prohibit any person or vessel from entering and remaining in the safety zone unless authorized by the Captain of the Port or his Designated Representative. The safety zone established in this rule encompasses all waters within 100 yards of the east span of the SR-520 Bridge. This rule is effective through 30 Nov 16.

The west navigation channel will be closed to all marine traffic through 2400 30 Sep 16. While the west navigation channel is blocked the east navigation channel will be open to mariners. Up to five construction barges may be operating in the west navigation channel during this time.

Mariners are advised to use caution while transiting near derrick (crane) barges within the SR-520 project area. These vessels are currently anchored and may present submerged hazards. Mariners should maintain a safe distance and minimize wake around all floating derrick barges and other construction vessels.

Mariners should use caution while transiting around old SR-520 bridge columns and piers. Demolition of these piers and columns is continuing through 2400 31 Oct 16 and will present hazards to approaching vessels. See Enclosure (4) for additional information.

The pontoons that made up the old SR-520 bridge will be transported from Lake Washington to Shilshole Bay through December 2016.

The center drawspan of the old bridge has been permanently blocked. The new floating bridge does not have a draw span.

The eastern navigation channel now has a horizontal clearance of 256 feet and a vertical clearance of 70 feet.

Exclusion area buoys and signage will mark the four Pontoon Alpha submerged anchor wires near the west navigation channel.

The west navigation channel has been relocated to its final location directly west of the floating bridge pontoons as shown in Enclosure (4) of this LNM with a varied horizontal clearance between 94 feet and 150 feet. The vertical clearance for the new west channel is 44 ft.

12 temporary barge mooring pilings have been placed on the north side of the bridge just west of the east navigation channel and marked with quick flashing yellow lights (QY), which may be obscured at times when barges and other equipment are moored at the site.

Temporary Construction Buoys and Lighting; Eight temporary white mooring buoys (six on the north side and two on the south side) marked with white lights flashing every 4 seconds (FI W 4s) and blue retroreflective tape have been relocated near the bridge for the mooring of the deconstructed old bridge sections as shown in enclosure (4) of this LNM. The new positions are:

- Buoy A 47-38-42.770N, 122-16-12.754W
- Buoy B 47-38-40.363N, 122-15-57.150W
- Buoy C 47-38-37.992N, 122-15-41.774W
- Buoy D 47-38-35.619N, 122-15-26.398W
- Buoy E 47-38-33.246N, 122-15-11.022W
- Buoy F 47-38-30.872N, 122-14-55.649W
- Buoy G 47-38-21.308N, 122-15-58.312W
- Buoy H 47-38-14.986N, 122-15-17.343W

West Approach Project: Complete

For additional information, contact Mr. Matt Steffens at 425-679-6675 or email matt.steffens@kiewit.com.

Chart 18447

LNM: 36/16

WASHINGTON – STRAIT OF JUAN DE FUCA TO STRAIT OF GEORGIA – Boundary Bay, Semiahmoo Bay, Hale Passage, Bellingham Channel, Bellingham Bay, Bellingham area Waterways Survey

The U.S. Coast Guard has conducted a user survey in the Bellingham area in Washington State. The U.S. Coast Guard uses Waterways Analysis and Management Systems (WAMS) to validate the adequacy of the existing aids to navigation (ATON) system, as well as to get a better understanding of the uses of each waterway and general safety issues. WAMS focuses on the waterway's present ATON system, marine casualty information, port and harbor resources, changes in recreational and commercial marine vessel usage and future development and dredging projects. The survey report has been posted at the U.S. Coast Guard District Thirteen WAMS website <https://www.uscg.mil/d13/dpw/wams.asp>.

Chart 18421

LNM: 36/16

COLUMBIA RIVER - PACIFIC OCEAN TO HARRINGTON POINT - Research buoy deployment

A research buoy that will monitor dredge spoil deposits has been deployed southeast of the seaward end of the Columbia River South Jetty at approximate position 46-12-00.600N, 124-02-52.680W. The buoy is yellow in color, 5 ft in diameter, and shows a FI Y 4s flash characteristic. The buoy will be on station until the end of October 2016. For additional information contact Mr. Michael Wilkin at 503-338-6574 or email wilkin@stccmop.org.

Chart 18521

LNM: 35/16

COLUMBIA RIVER – PACIFIC OCEAN TO HARRINGTON POINT – Whale strike danger

Mariners are advised that humpback whales have been reported in and around the entrance to the Columbia River up to the Astoria-Megler Bridge. Mariners are requested to exercise extra caution while navigating the area and not approach any marine mammal closer than 100 yards in accordance with the Marine Mammal Protection Act.

Chart 18521

LNM: 35/16

COLUMBIA RIVER - VANCOUVER TO BONNEVILLE; BONNEVILLE DAM – Waterways Analysis and Management System survey (Revised from LNM 21/16)

The U.S. Coast Guard is conducting a user survey for the Upper Columbia River from Vancouver to Bonneville Pool. The U.S. Coast Guard uses the Waterways Analysis and Management Systems (WAMS) to validate the adequacy of the existing aids to navigation (AtoN) system, as well as to get a better understanding of the uses of each waterway and general safety issues. WAMS focuses on the waterway's present AtoN system, marine casualty information, port and harbor resources, changes in recreational and commercial marine vessel usage and future development and dredging projects. The survey is available at the Coast Guard District 13 WAMS website <http://www.uscg.mil/d13/dpw/wams.asp>. The deadline for survey entries will be 30 Sep 16. For additional information please contact BMC Berryhill at 503-240-9305 or this corrected email address: d13-smb-SUPortlandFAC@uscg.mil.

Chart 18531

LNM: 35/16

SNAKE RIVER - MALHEUR COUNTY - NYSSA - Bridge special notice

Work to attach a pipeline on the Nyssa Bridge (US HWY 26) at Snake River mile 389 will begin 01 Oct 16 through 31 Dec 16. The work will be done from underneath the bridge using scaffolding that will not create any waterway obstruction, Monday through Friday during daylight hours only. Information signs will be posted at the Nyssa boat Ramp, upstream of the work area and downstream of the work area. For more information contact the project manager at 208-739-3344.

LNM: 35/16

WASHINGTON – LAKE WASHINGTON SHIP CANAL – Large lock closure

The Hiram M. Chittenden large lock will close to all marine traffic for annual maintenance from 0900 07 Nov 16 to 2000 23 Nov 16. The small lock will still be available for vessels less than 120 feet in length and 26 feet in width throughout the large lock maintenance period. The scheduled repairs to the large lock are part of an annual general maintenance program. Questions may be directed to Lockmasters Larry Meyer or Vickie Shepard, at 206-789-2622 ext. 230, or Public Affairs Officer Bill Dowell, at 206-764-3464.

Chart 18447

LNM: 35/16

WASHINGTON – LAKE WASHINGTON SHIP CANAL – Montlake Bridge – Special Bridge Notice

The U.S. Coast Guard has issued a temporary deviation from the normal operating schedule that governs the Montlake Bridge (LLNR 18240) over the Lake Washington Ship Canal, mile 5.2, in Seattle, WA. The deviation period is from 0600 until 1800 24 Sep 16 (north single leaf opening if a one hour notice is given); from 1800 Sep 16 until 0600 25 Sep 16 (span remain in the closed-to-navigation position); from 0600 until

1800 25 Sep 16 (north single leaf opening if a one hour notice is given); from 1800 25 Sep 16 until 0600 on 26 Sep 16 (span remain in the closed-to-navigation position). The deviation is necessary to accommodate work crews to conduct timely bridge deck repairs. The Montlake Bridge in the closed-to-navigation position provides 30 feet of vertical clearance throughout the navigation channel, and 46 feet of vertical clearance throughout the center 60 feet of the bridge; vertical clearance references to the Mean Water Level of Lake Washington. When half the span is open, single leaf, 46 feet of vertical clearance will be reduced throughout the center to 30 feet of the bridge. Vessels able to pass through the bridge in the closed-to-navigation position may do so at anytime. The bridge will be able to open for emergency vessels enroute to a call when an hour notice is given to the bridge operator, and a single leaf opening will be provided. The normal operating schedule for the Montlake Bridge operates in accordance with 33 CFR § 117.1051(e). The U.S. Coast Guard will inform the users of the waterway through our Local Broadcast Notices to Mariners of any change in this operating schedule. The bridge shall operate in accordance to 33 CFR § 117.897 at all other times. For additional information contact Ms. Barbara J. Rasaie at 425-739-3700 or email rasaieB@wsdot.wa.gov.

Chart 18447

LNM: 35/16

IDAHO – SALMON RIVER - Island Park Bridge replacement

The U.S. Coast Guard has issued permission for closure of the west channel of the Salmon River during construction activities for the removal and replacement of the Island Park Bridge in Salmon, ID. Location of the operation is at the southern point of the Island Park. The majority of the water from the west channel will be diverted to the east channel of the Salmon River which will remain open to vessels. Temporary access may be affected in the east channel prior to diverting water into the west channel while equipment is mobilized to the Island. The operation will be between approximately 08 Sep 16 through 30 Oct 16. Work hours will be during daylight hours, seven days a week. Vessels should be prepared for blockage at the head of the island on the west channel by concrete barriers which will be placed directly in the river for dewatering purposes. For additional information, contact Ms. Mary Cerise at 208-756-1188 or email Mary.Cerise1@gmail.com.

LNM: 34/16

SECTION II - DISCREPANCIES

This section lists all reported and corrected discrepancies related to Aids to Navigation in this edition. A discrepancy is a change in the status of an aid to navigation that differs from what is published or charted.

DISCREPANCIES (FEDERAL AIDS)

LLNR	Aid Name	Status	Chart No.	BNM Ref.	LNM St	LNM End
765.38	DART Tsunami Warning Lighted Buoy 46451	ADRIFT	18003	0709-16	33/16	
765.45	DART Tsunami Warning Lighted Buoy 46452	ADRIFT	18003	0756-16	35/16	
10280	Pillar Rock Upper Range Rear Light	REDUCED INT	18523	0609-16	29/16	
10420	Puget Island Light 47	LT IMCH	18523	0812-16	37/16	
10585	Eureka Dike Light 77	STRUCT DMGD	18523	0250-14	15/14	
11045	St. Helens Junction Lighted Buoy	LT EXT	18524	0693-16	32/16	
11125	Bachelor Dike Light 15	LT IMCH	18525	0444-16	21/16	
11150	Willow Dike Light 23	STRUCT DEST	18525	0174-14	10/14	
11308	Airport Bar Range Rear Light	LT EXT	18531	0563-16	26/16	
11430	Fisher Quarry Channel Range Front Light	LT IMCH	18531	0359-16	18/16	
11645	Prindle Dike Light 73	LT EXT	18531	0470-16	22/16	
12560	Lake Umatilla Light 36	LT EXT/DAYMK MISSING/STRUCT DMGD	18537	0511-16	24/16	
12685	Lake Umatilla Light 59	LT IMCH	18539	0358-16	18/16	
13735	Little Goose Reservoir Light 9	STRUCT DEST	18547	0056-16	03/16	
13750	Little Goose Reservoir Light 12	REDUCED INT	18547	0139-16	07/16	
14140	Franklin D. Roosevelt Lake Light C	LT EXT	18551	None	30/16	
14180	Franklin D. Roosevelt Lake Light G	LT EXT	18551	None	30/16	
14190	Franklin D. Roosevelt Lake Light H	LT EXT	18551	None	30/16	
14195	Franklin D. Roosevelt Lake Light I	REDUCED INT	18551	None	30/16	
14205	Franklin D. Roosevelt Lake Light K	LT EXT	18551	None	30/16	
14215	Spokane River Arm Light A	LT EXT	18551	None	30/16	
14225	Spokane River Arm Light C	LT EXT	18551	None	30/16	
14265	Franklin D. Roosevelt Lake Light L	REDUCED INT	18551	None	30/16	

14280	Franklin D. Roosevelt Lake Light N	REDUCED INT	18551	None	30/16
14285	Franklin D. Roosevelt Lake Light O	LT EXT	18551	None	30/16
14290	Franklin D. Roosevelt Lake Light P	LT EXT	18551	None	30/16
14295	Franklin D. Roosevelt Lake Light Q	LT EXT	18551	None	30/16
14300	Franklin D. Roosevelt Lake Light R	REDUCED INT	18551	None	30/16
14305	Franklin D. Roosevelt Lake Light T	LT EXT	18551	None	30/16
14310	Franklin D. Roosevelt Lake Light U	LT EXT	18553	None	30/16
14320	Franklin D. Roosevelt Lake Light W	LT EXT	18553	None	30/16
14335	Franklin D. Roosevelt Lake Light Y	REDUCED INT	18553	None	30/16
14350	Franklin D. Roosevelt Lake Light BB	LT EXT	18553	None	30/16
14360	Franklin D. Roosevelt Lake Light CC	REDUCED INT	18553	None	30/16
14610	Sand Island Lower Dike Light 1	STRUCT DMGD	18521	1092-15	51/15
15585	Point Chehalis Range Front Light	DAYMK MISSING/STRUCT DMGD	18502	1012-09	50/09
15585	Point Chehalis Range Front Light	LT EXT	18502	0067-13	03/13
15610	Grays Harbor South Reach Range A Front Light	LT EXT/DAYMK MISSING	18502	0746-15	35/15
17090	Browns Point Light	REDUCED INT	18453	0742-16	35/16
19335	Williamson Rocks Lighted Buoy 4	OFF STA	18427	0673-16	31/16
19840	Parker Reef Light	DAYMK IMCH	18430	0769-16	36/16
19865	Clements Reef Buoy 2	OFF STA	18431	0769-16	36/16

DISCREPANCIES (FEDERAL AIDS) CORRECTED

LLNR	Aid Name	Status	Chart No.	BNM Ref.	LNM St	LNM End
733	NOAA Environmental Lighted Buoy 46041	WATCHING PROPERLY	18500	0810-16	37/16	37/16
8762	Coos Bay North Jetty Sound Signal	WATCHING PROPERLY	18587	0808-16	34/16	37/16
9145	South Slough Light 4	WATCHING PROPERLY	18587	0798-16	36/16	37/16
10307	Jim Crow Lighted Buoy 22A	WATCHING PROPERLY	18523	0793-16	36/16	37/16
18520	Snohomish River Lighted Buoy 3	WATCHING PROPERLY	18444	None	37/16	38/16

DISCREPANCIES (PRIVATE AIDS)

LLNR	Aid Name	Status	Chart No.	BNM Ref.	LNM St	LNM End
17731	Hood Canal Mariculture Lighted Buoys (2)	MISSING	18477	0598-16	29/16	
18759	Mariners Cove Warning Light B	LT IMCH	18423	0729-16	34/16	
19440	Shoal Bay Aquaculture Lighted Buoy	LT EXT	18430	0665-16	31/16	

DISCREPANCIES (PRIVATE AIDS) CORRECTED

LLNR	Aid Name	Status	Chart No.	BNM Ref.	LNM St	LNM End
11965	Hood River Marina Entrance West Light	RELIGHTED	18531	0807-16	36/16	37/16
14017	Chief Timothy Water Intake Light	RELIGHTED	18548	0806-16	36/16	37/16
18614.2	Langley Dock South Lighted Mooring Buoy	RELIGHTED	18473	0805-16	35/16	37/16

PLATFORM DISCREPANCIES

Name	Status	Position	BNM Ref.	LNM St	LNM End
None					

PLATFORM DISCREPANCIES CORRECTED

Name	Status	Position	BNM Ref.	LNM St	LNM End
None					

SECTION III - TEMPORARY CHANGES and TEMPORARY CHANGES CORRECTED

This section contains temporary changes and corrections to Aids to Navigation for this edition. When charted aids are temporarily relocated for dredging, testing, evaluation, or marking an obstruction, a temporary correction shall be listed in Section IV giving the

new position.

TEMPORARY CHANGES

LLNR	Aid Name	Status	Chart No.	BNM Ref.	LNM St	LNM End
10295	Jim Crow Lighted Buoy 19	RELOCATED FOR DREDGING	18523	0767-16	35/16	
10585	Eureka Dike Light 77	RELOCATED	18523	0250-14	15/14	
11150	Willow Dike Light 23	TRLB	18525	0177-14	10/14	
12560	Lake Umatilla Light 36	TRLB	18537	0529-16	25/16	
14425	Baker Bay West Channel Buoy 3	DISCONTINUED FOR DREDGING	18521	0701-16	32/16	
14432	Baker Bay West Channel Buoy 6A	DISCONTINUED FOR DREDGING	18521	0704-16	33/16	
14457	Baker Bay West Channel Lighted Buoy 11	DISCONTINUED FOR DREDGING	18521	0705-16	33/16	

TEMPORARY CHANGES CORRECTED

LLNR	Aid Name	Status	Chart No.	BNM Ref.	LNM St	LNM End
9605	Yaquina Bay South Jetty Light 4	Reestablished	18581	0811-16	34/16	37/16

PLATFORM TEMPORARY CHANGES

Name	Status	Position	BNM Ref.	LNM St	LNM End
None					

PLATFORM TEMPORARY CHANGES CORRECTED

Name	Status	Position	BNM Ref.	LNM St	LNM End
None					

SECTION IV - CHART CORRECTIONS

This section contains corrections to federally and privately maintained Aids to Navigation, as well as NOS corrections.

This section contains corrective actions affecting chart(s). Corrections appear numerically by chart number, and pertain to that chart only. It is up to the mariner to decide which chart(s) are to be corrected. The following example explains individual elements of a typical chart correction.

Chart Number	Chart Edition	Edition Date	Last Local Notice to Mariners	Horizontal Datum Reference	Source of Correction	Current Local Notice to Mariners
12327	91st Ed.	19-APR-97	Last LNM: 26/97	NAD 83		27/97
Chart Title: NY-NJ-NEW YORK HARBOR - RARITAN RIVER						
Main Panel 2245 NEW YORK HARBOR					CGD01	
(Temp)	ADD	NATIONAL DOCK CHANNEL BUOY 3			at 40-41-09.001N	074-02-48.001W
		Green can				
Corrective Action		Object of Corrective Action			Position	

(Temp) indicates that the chart correction action is temporary in nature. Courses and bearings are given in degrees clockwise from 000 true. Bearings of light sectors are toward the light from seaward. The nominal range of lights is expressed in nautical miles (NM) unless otherwise noted.

50	9th Ed.	01-DEC-15	Last LNM: 30/16	NAD 83		37/16
<i>Chart Title: North Pacific Ocean (eastern part) Bering Sea Continuation</i>						
CHART NORTH PACIFIC OCEAN (EASTERN PART). Page/Side: N/A						
RELOCATE	NOAA Environmental Lighted Buoy 46041				CGD13 from 47-21-10.000N to 47-20-59.263N	124-43-50.000W 124-42-13.366W

501	13th Ed.	01-JUN-09	Last LNM: 30/16	NAD 83	37/16
<i>ChartTitle: North Pacific Ocean West Coast Of North America Mexican Border To Dixon Entrance</i>					
Main Panel 1650 MEXICAN BORDER TO DIXON ENTRANCE. Page/Side: N/A					
RELOCATE	NOAA Environmental Lighted Buoy 46041			CGD13 from 47-21-10.000N to 47-20-59.263N	124-43-50.000W 124-42-13.366W
530	35th Ed.	01-DEC-15	Last LNM: 30/16	NAD 83	37/16
<i>ChartTitle: North America West Coast San Diego to Aleutian Islands and Hawaiian Islands</i>					
Main Panel 2405 SAN DIEGO TO ALEUTIAN ISLANDS AND HAWAIIAN ISLANDS. Page/Side: A					
RELOCATE	NOAA Environmental Lighted Buoy 46041			CGD13 from 47-21-10.000N to 47-20-59.263N	124-43-50.000W 124-42-13.366W
531	25th Ed.	01-JUL-15	Last LNM: 34/16	NAD 83	37/16
<i>ChartTitle: Gulf of Alaska Strait of Juan de Fuca to Kodiak Island</i>					
Main Panel 2406 GULF OF ALASKA STRAIT OF JUAN DE FUCA TO KODIAK ISL. Page/Side: A					
RELOCATE	NOAA Environmental Lighted Buoy 46041			CGD13 from 47-21-10.000N to 47-20-59.263N	124-43-50.000W 124-42-13.366W
18003	20th Ed.	01-NOV-06	Last LNM: 34/16	NAD 83	37/16
<i>ChartTitle: Cape Blanco to Cape Flattery</i>					
Main Panel 1651 CAPE BLANCO TO CAPE FLATTERY. Page/Side: N/A					
RELOCATE	NOAA Environmental Lighted Buoy 46041			CGD13 from 47-21-10.000N to 47-20-59.263N	124-43-50.000W 124-42-13.366W
18007	33rd Ed.	01-FEB-09	Last LNM: 34/16	NAD 83	37/16
<i>ChartTitle: San Francisco to Cape Flattery</i>					
Main Panel 1652 SAN FRANCISCO TO CAPE FLATTERY. Page/Side: N/A					
RELOCATE	NOAA Environmental Lighted Buoy 46041			CGD13 from 47-21-10.000N to 47-20-59.263N	124-43-50.000W 124-42-13.366W
18400	49th Ed.	01-APR-12	Last LNM: 34/16	NAD 83	37/16
<i>ChartTitle: Strait of Georgia and Strait of Juan de Fuca</i>					
Main Panel 1656 STRAIT OF GEORGIA AND STRAIT OF JUAN DE FUCA. Page/Side: N/A					
RELOCATE	Porlier Pass Range Front Light and Delete HORN.			CGD13 from 49-00-42.750N to 49-00-46.500N	123-35-08.830W 123-35-09.200W
RELOCATE	Porlier Pass Range Rear Light			CGD13 from 49-00-33.790N to 49-00-32.900N	123-35-12.090W 123-35-15.000W
18421	51st Ed.	01-MAY-13	Last LNM: 36/16	NAD 83	37/16
<i>ChartTitle: Strait of Juan de Fuca to Strait of Georgia;Drayton Harbor</i>					
CHART WA - STRAIT OF JUAN DE FUCA TO STRAIT OF GEORGIA. Page/Side: N/A					
CHANGE	Anacortes Channel Light 4 Nominal range to 4 M.			CGD13 at 48-30-16.385N	122-35-55.947W
18427	24th Ed.	01-MAY-13	Last LNM: 30/16	NAD 83	37/16
<i>ChartTitle: Anacortes to Skagit Bay</i>					
Main Panel 1680 ANACORTES TO SKAGIT BAY. Page/Side: N/A					
CHANGE	Anacortes Channel Light 4 Nominal range to 4 M.			CGD13 at 48-30-16.385N	122-35-55.947W
18441	47th Ed.	01-JUN-11	Last LNM: 30/16	NAD 83	37/16
<i>ChartTitle: Puget Sound-northern part</i>					
Main Panel 1689 PUGET SOUND - NORTHERN PART. Page/Side: N/A					

	RELOCATE	Snohomish River Lighted Buoy 3			CGD13 from 47-58-57.300N to 47-58-56.950N	122-14-02.560W 122-14-03.141W
18443	17th Ed.	01-JAN-10	Last LNM: 49/15	NAD 83		37/16
	<i>ChartTitle: Approaches to Everett</i>					
	Main Panel 1690 APPROACHES TO EVERETT. Page/Side: N/A					
	RELOCATE	Snohomish River Lighted Buoy 3			CGD13 from 47-58-57.300N to 47-58-56.950N	122-14-02.560W 122-14-03.141W
18444	17th Ed.	01-NOV-09	Last LNM: 24/16	NAD 83		37/16
	<i>ChartTitle: Everett Harbor</i>					
	Main Panel 1691 EVERETT HARBOR. Page/Side: N/A					
	RELOCATE	Snohomish River Lighted Buoy 3			CGD13 from 47-58-57.300N to 47-58-56.950N	122-14-02.560W 122-14-03.141W
18500	30th Ed.	01-MAY-08	Last LNM: 32/16	NAD 83		37/16
	<i>ChartTitle: Columbia River to Destruction Island</i>					
	Main Panel 1730 COLUMBIA RIVER TO DESTRUCTION ISLAND. Page/Side: N/A					
	RELOCATE	NOAA Environmental Lighted Buoy 46041			CGD13 from 47-21-10.000N to 47-20-59.263N	124-43-50.000W 124-42-13.366W
18542	10th Ed.	08-JAN-00	Last LNM: 03/16	NAD 83		37/16
	<i>ChartTitle: Columbia River Juniper to Pasco</i>					
	Main Panel 1769 COLUMBIA RIVER JUNIPER TO PASCO. Page/Side: N/A					
	RELOCATE	Wallula Water Intake Light A			CGD13 from 46-05-08.000N to 46-05-05.514N	118-55-29.000W 118-55-26.317W
18561	13th Ed.	01-DEC-11	Last LNM: 34/16	NAD 83		37/16
	<i>ChartTitle: Approaches to Yaquina Bay;Depoe Bay</i>					
	CHART OR - APPROACHES TO YAQUINA BAY. Page/Side: N/A					
	RELOCATE	Yaquina Bay South Jetty Light 4 and Change height to 17ft.			CGD13 from 44-36-33.714N to 44-36-33.900N	124-04-45.636W 124-04-45.830W
18580	23rd Ed.	01-MAR-14	Last LNM: 47/15	NAD 83		37/16
	<i>ChartTitle: Cape Blanco to Yaquina Head</i>					
	Main Panel 1791 CAPE BLANCO TO YAQUINA HEAD. Page/Side: N/A					
	RELOCATE	Yaquina Bay South Jetty Light 4 and Change height to 17ft.			CGD13 from 44-36-33.714N to 44-36-33.900N	124-04-45.636W 124-04-45.830W
18581	19th Ed.	01-OCT-11	Last LNM: 36/16	NAD 83		37/16
	<i>ChartTitle: Yaquina Bay and River;Continuation of Yaquina River</i>					
	CHART OR - YAQUINA BAY AND RIVER. Page/Side: N/A					
	RELOCATE	Yaquina Bay South Jetty Light 4 and Change height to 17ft.			CGD13 from 44-36-33.714N to 44-36-33.900N	124-04-45.636W 124-04-45.830W
18587	71st Ed.	01-APR-11	Last LNM: 33/16	NAD 83		37/16
	<i>ChartTitle: Coos Bay</i>					
	Main Panel 1796 COOS BAY. Page/Side: N/A					
	CHANGE	South Slough Light 4 Nominal range to 4 M.			CGD13 at 43-21-10.296N	124-19-07.506W

SECTION V - ADVANCE NOTICES

This section contains advance notice of approved projects, changes to aids to navigation, or upcoming temporary changes such as dredging, etc. Mariners are advised to use caution while transiting these areas.

SUMMARY OF ADVANCED APPROVED PROJECTS

Approved Project(s)

Project Date

Ref. LNM

None

Advance Notice(s)

WASHINGTON – COLUMBIA RIVER TO DESTRUCTION ISLAND – Extended disestablishment of North Head Light for construction

The Washington State Parks and Recreation Commission will be conducting extensive masonry restoration and other work at North Head Light (LLNR 700) from approximately August 2016 through 01 Jun 2017. During this time, the light will experience short periods which it will be secured. Once specific dates for the outages are determined, a Broadcast Notice to Mariners will be issued.

Chart 18500

LNM: 34/16

WASHINGTON – STRAIT OF JUAN DE FUCA – EASTERN PORTION – Relocation of Smith Island Light and the disestablishment of Minor Island Light (Revised from LNM 03/16)

The U.S. Coast Guard has rebuilt Smith Island Light (LLNR 16375) between Smith Island and Minor Island in the eastern Strait of Juan de Fuca in approximate position 48-19-14.368N 122-49-51.449W. The U.S. Coast Guard will be discontinuing Minor Island Light (LLNR16380) due to the loss of land mass from erosion at that location. A revised notice will be published when the date of removal has been scheduled.

Chart 18465

LNM: 09/16

SECTION VI - PROPOSED CHANGES

Periodically, the Coast Guard evaluates its system of aids to navigation to determine whether the conditions for which the aids to navigation were established have changed. When changes occur, the feasibility of improving, relocating, replacing, or discontinuing aids are considered. This section contains notice(s) of non-approved, proposed projects open for comment. SPECIAL NOTE: Mariners are requested to respond in writing to the District office unless otherwise noted (see banner page for address).

PROPOSED WATERWAY PROJECTS OPEN FOR PUBLIC COMMENT

Proposed Project(s)

Closing

Docket No.

Ref. LNM

None

Proposed Change Notice(s)

OREGON – COQUILLE RIVER – Conversion of the continuous sound signal to a Marine Radio Activated Sound Signal

The U.S. Coast Guard is proposing to change the sound signal on Coquille River South Jetty Light 8 (LLNR 8700) from a continuously sounding fog signal to a Marine Radio Activated Sound Signal (MRASS). The fog signal would be activated by the maritime users as needed by keying a VHF-FM microphone on an assigned frequency. The Sound Signal would activate for approximately one half hour (30 minutes) and then cease.

Charts: 18580 18588

LNM: 32/16

WASHINGTON – FRANKLIN D. ROOSEVELT LAKE & SPOKANE RIVER ARM – Reduction in nominal range of lighted aids to navigation

The U.S. Coast Guard is proposing to reduce the nominal range of the aids to navigation listed below from 5 NM to 4 NM on Franklin D. Roosevelt Lake and the Spokane River Arm. The change in nominal range will have a minimal effect upon the intensity of the lantern and will not be noticeable to majority of mariners. Although the nominal range will be reduced, the current light intensity will only be slightly decreased. The aids to navigation are:

Franklin D. Roosevelt Lake Light "F" (LLNR 14175): reduce the intensity from 5 NM to 4 NM (54 to 45 candelas)

Franklin D. Roosevelt Lake Light "G" (LLNR 14180): reduce the intensity from 5 NM to 4 NM (77 to 45 candelas)

Franklin D. Roosevelt Lake Light "I" (LLNR 14190): reduce the intensity from 5 NM to 4 NM (54 to 45 candelas)

Spokane River Arm Light "A" (LLNR 14215): reduce the intensity from 5 NM to 4 NM (77 to 45 candelas)

Spokane River Arm Light "C" (LLNR 14225): reduce the intensity from 5 NM to 4 NM (54 to 45 candelas)

Franklin D. Roosevelt Lake Light "L" (LLNR 14265): reduce the intensity from 5 NM to 4 NM (54 to 45 candelas)

Franklin D. Roosevelt Lake Light "M" (LLNR 14275): reduce the intensity from 5 NM to 4 NM (77 to 50 candelas)

Franklin D. Roosevelt Lake Light "O" (LLNR 14285): reduce the intensity from 5 NM to 4 NM (54 to 45 candelas)

Franklin D. Roosevelt Lake Light "R" (LLNR 14300): reduce the intensity from 5 NM to 4 NM (54 to 50 candelas)

Franklin D. Roosevelt Lake Light "T" (LLNR 14305): reduce the intensity from 5 NM to 4 NM (77 to 45 candelas)

Franklin D. Roosevelt Lake Light "V" (LLNR 14315): reduce the intensity from 5 NM to 4 NM (54 to 45 candelas)

Franklin D. Roosevelt Lake Light "AA" (LLNR 14345): reduce the intensity from 5 NM to 4 NM (77 to 45 candelas)

Franklin D. Roosevelt Lake Light "CC" (LLNR 14360): reduce the intensity from 5 NM to 4 NM (54 to 45 candelas)

Charts: 18551 18553

LNM: 30/16

SECTION VII - GENERAL

This section contains information of general concern to the Mariners. Mariners are advised to use caution while transiting these areas.

SUMMARY OF BRIDGE LIGHTING DISCREPANCIES AND CORRECTIONS

The summary of Bridge Lighting Discrepancies and Corrections is listed in Enclosure (1) of this Local Notice to Mariners.

LNM: 37/16

SUMMARY OF DREDGING OPERATIONS

The summary of Dredging Operations is listed in Enclosure (2) of this Local Notice to Mariners.

LNM: 37/16

SUMMARY OF MARINE EVENTS

The summary of Marine Events is listed in Enclosure (3) of this Local Notice to Mariners.

LNM: 37/16

OREGON – COOS BAY – McCullough (US101) Bridge repair

ODOT is conducting a repair project on the McCullough Bridge (LLNR 9009) at mile 9.5 over Coos Bay on Hwy. US 101. The project will be completed sometime in 2017. The repairs are on the north side of Jarvis Upper Range 'B' Front Light (LLNR 8960) outside the main navigation channel. Two 2000 foot temporary work bridges have been constructed for the project, but will not encroach into the navigation channel. The temporary bridges will be built on steel piles placed 45 feet apart. Enclosure (5) of LNM 44/13 shows the diagram and aerial view of the project.

Chart 18587

LNM: 44/13

OREGON - COOS BAY - Special Bridge Notice

The U.S. Coast Guard has issued a public notice announcing a proposal from Oregon Department of Transportation (ODOT) for a temporary rule change for the Isthmus Slough Bridge (LLNR 9087) crossing Isthmus Slough at in Coos Bay, OR. ODOT is the owner of the Isthmus Slough Bridge, and is proposing to only open half the span from 0700 01 Apr 17 until 1700 31 Jul 18. A work platform and containment structure will reduce the vertical clearance by 10 feet. The span vertical clearance will be reduced from 28 feet to 18 feet; the side vertical clearances will be reduced from 19 feet to 9 feet. Isthmus Slough Bridge is located across Isthmus Slough at mile 1.0 between Bunker Hill, OR, and Eastside, OR, approximate position 43-21-23.300N, 124-11-38.400W. For further information regarding environmental implications and the scope of work please consult Public Notice 02-16 which solicits comment and is available at <http://www.navcen.uscg.gov/?pageName=pnBridges&Active=1®ion=13>.

Question or comments can be addressed to the Bridge Administrator, Mr. Steve Fischer at (206) 220-7282, or email d13-pf-d13bridges@uscg.mil.

Chart 18587

LNM: 31/16

OREGON - SIUSLAW RIVER - Bridge Notice

Repairs are being conducted on the U.S. 101 Bridge (LLNR 9558) across the Siuslaw River, mile 5.0, through 31 Mar 18. Repairs include a containment system with scaffolding that reduces the bridge's vertical clearance from the water line up to 5 feet. Signs and yellow lights have been installed to warn mariners of the reduced clearance. Scaffolding will be installed as work progresses from north to south. The U.S. 101 Bridge draw will not have containment installed so maritime navigation will not be impacted. Service barge(s) will be moored at the adjacent span supporting the maintenance work. Barge and work crew may be contacted using VHF-FM Ch. 16. Mariners are requested to transit the construction area at minimum safe speed with no wake. For more information, contact Mr. Wade Campbell at (541) 260-3345 or Mr. Danny McReynolds of the U.S.C.G District Thirteen Bridge Administration office at email Danny.G.McReynolds@uscg.mil.

Chart 18583

LNM: 29/16

OREGON – ASTORIA – LEWIS AND CLARK RIVER – LEWIS AND CLARK BRIDGE – Bridge notice

The U.S. Coast Guard has issued a temporary deviation change from the operating schedule that governs the Lewis and Clark River Bridge (LLNR 14607) across the Lewis and Clark River, mile 1.0, at Astoria, OR. This deviation is from 0700 16 Jul 16 through 1700 31 Oct 16. This deviation is necessary to accommodate road maintenance on the bridge. The deviation allows the bascule span of the Lewis and Clark River Bridge to remain in the closed-to-navigation position; however, the span will be available to open on Wednesdays and Sundays with at least three hour advanced notice. The bascule span will also open at any time for emergency situations with at least a three hour advanced notice. The span of the bridge will have a containment system installed which will reduce the vertical clearance by 5 feet from 17 feet above mean high water to 12 feet above mean high water. Vessels able to pass under the bridge in the closed-to-navigation position may do so at anytime. For more information contact Mr. Dave True at: Dave.True@odot.state.or.us.

Chart 18521

LNM: 26/16

COLUMBIA RIVER - PACIFIC OCEAN TO HARRINGTON POINT - Bridge special notice

ODOT is removing existing paint coating by sand blast and power tooling methods within engineered containments on the Astoria-Megler Bridge (LLNR 14630/10086) at Columbia River mile 13.5. Replacement of rivets, steel repairs, and new paint will be applied until complete on 31 Aug 18. The containment system will reduce the vertical clearance beneath the bridge by six feet. The work will be during daylight hours, generally from 0630 to 1800, Monday through Friday. Weekend work is not anticipated but could occur. The containment system will be in place for the duration of the project. The containment system is movable and will occupy approximately 300 to 400 feet at any one time. The work is anticipated to be performed year round. Mariners are advised to exercise caution when navigating under the bridge and to be aware of fall hazards while containment scaffolding is being relocated. All work will be staged from the roadway deck. On scene contacts for ODOT are Jeremy Chauvin at 503-338-8837 and Grant Hudkins at 503-338-0574.

Chart 18521

LNM: 23/16

IDAHO – LAKE PEND OREILLE – Bridge notice

IDAHO – LAKE PEND OREILLE – Bridge notice

Divers will install pile support cables on the US-95 Highway Bridge (LLNR 20086) on Lake Pend Oreille, mile 2.0, from 15 Jul 16 through 15 Oct 16. A temporary mooring and work platform will be constructed on the southern end of the bridge. Diving operations will be Monday through Friday during daylight hours only. A small work boat and barge will be on site near the divers. The vessels will be moored at the temporary platform over night and weekends. Recreational diver flags and Code Alfa will be displayed while divers are working in the water. Mariners are requested to transit in the vicinity of the divers with no wake. The onsite dive supervisor can be contacted at (509) 710-5118.

LNM: 25/16

OREGON - WILLAMETTE RIVER - PORTLAND TO WALNUT EDDY - Sellwood Bridge construction (Revised from LNM 39/15)

The Sellwood Bridge (LLNR 14995) at RM 16.6 on the Willamette River is under construction until November 2016. A no wake zone is in effect within 500 feet of the bridge. The marked navigable channel at the bridge has been relocated as shown in Enclosure (4) of LNM 01/16. Two debris booms have been added to the construction site on the upstream side of the project, as shown in enclosure (5) of LNM 28/14. Each boom is held in place by multiple pilings, which are marked with flashing yellow lights and yellow reflective tape. Mariners are cautioned to observe the temporary navigation buoys and bridge navigation lighting and comply with the exclusion area established by both the buoys and signage. For additional information, contact Mr. Chad Yount at (520) 468-9550 or email cayount@sundt.com.

LNM: 50/15

Chart 18528

OREGON - WILLAMETTE SLOUGH - MINTO ISLAND PEDESTRIAN & BICYCLE BRIDGE - Special bridge notice

Legacy Contracting, Inc. is constructing the Minto Island Pedestrian/Bicycle Bridge in Salem, OR, in the vicinity of Riverfront Park Playground at 44-56-19.000N, 123-02-43.000W. The construction work will be Monday through Sunday 24 hours per day until 15 Oct 16. Mariners can expect overhead cranes and pile driving while constructing temporary trestles with overhead hazards of a vertical clearance of 10 feet. A temporary 40 foot wide channel will be marked with signs for passage under the bridge and through the construction zone. Regulatory orange and white buoys will also be placed marking the construction area requesting no wake and bridge construction. For additional information, contact Mr. Monte Nunnely at (503) 510-7624 or Mr. Todd Ross at (503) 749-1818, or email: ToddR@LegacyContractingInc.com.

LNM: 22/15

WASHINGTON – HOOD CANAL AND DABOB DAY – HOOD CANAL BRIDGE - Special bridge notice

Northwest Underwater Construction will conduct underwater cable repairs on the Hood Canal Bridge (LLNR 17769) from 0600 on 01 Aug 16 until 1900 on 15 Oct 16. Four white mooring buoys with flashing white lights will mark the vessels conducting the operation. Working and support vessels will be on station and monitoring VHF-FM Ch 16 and 68. A remote operated vessel (ROV) will be used to assist with repairs. During these repairs, only half (300 feet) of the center span will be able to open. The center span on the Hood Canal Bridge is restricted by tidal currents to openings only at slack tide. Mariners are requested to use the east (50 feet of vertical clearance) and west (35 feet of vertical clearance) spans until the end of this deviation period. If a center span opening is required, please time the request for an opening during slack tide. For additional information contact Ms. Amy Amos at 360-874-3016.

LNM: 23/16

Chart 18476

WASHINGTON – STRAIT OF JUAN DE FUCA TO STRAIT OF GEORGIA – SAN JUAN CHANNEL – Bridge notice

WASHINGTON – STRAIT OF JUAN DE FUCA TO STRAIT OF GEORGIA – SAN JUAN CHANNEL – Bridge notice
Construction on the Deer Harbor Bridge has begun, and is scheduled to be complete in December 2016. The work schedule is Monday through Friday from 0800 until 1600. Crews will be clearing and grubbing on the north, east and west side of the bridge. Temporary erosion control systems will also be installed. The area will be hazardous to small vessels, and mariners are requested to stay well clear until the waterway is not impacted with water born hazards. Please contact San Juan County Public Works at: pubwks@sanjuanco.com, or (360) 370-0500.

LNM: 29/16

Chart 18421

WASHINGTON - SOUTH PUGET SOUND - CHAMBERS BAY - BURLINGTON NORTHERN SANTA FE RAILROAD SPECIAL DRAWBRIDGE NOTICE - Critical Navigation Notice

The U.S. Coast Guard is establishing a temporary deviation to test a proposed regulation change for the subject drawbridge. The temporary test deviation will be effective from midnight on 01 Jun 16 to midnight 01 Dec 16. During this period the subject bridge shall open on signal, except from 10 p.m. to 6 a.m. when the draw shall open on signal if at least 4 hours notice is given; however vessels engaged in emergency response and vessels in distress needing a drawbridge opening shall be passed as soon as possible. Interested parties are encouraged to submit comments anytime during this test deviation period. At the end of the test period the U.S. Coast Guard will make a determination if this change should be made permanent. Comments may be sent to the Bridge Administrator, Thirteenth Coast Guard District; e-mail D13-PF-D13BRIDGES@uscg.mil.

LNM: 20/16

Chart 18448

WASHINGTON – LAKE WASHINGTON SHIP CANAL – Montlake Bridge – Special Bridge Notice

The U.S. Coast Guard has issued a temporary deviation from the normal operating schedule that governs the Montlake Bridge over the Lake Washington Ship Canal, mile 5.2. The Montlake Bridge need not open the draw for marine vessels during heavy road traffic for the University of Washington football games on the following dates and times:

- 17 Sep 16 1430 to 1700 and 2030 to 2230
- 30 Sep 16 1530 to 1800 and 2030 to 2300
- 22 Oct 16 TBA
- 12 Nov 16 TBA
- 19 Nov 16 TBA

The deviation is necessary to accommodate vehicular traffic attending football games at Husky Stadium at the University of Washington, in

WASHINGTON – LAKE WASHINGTON SHIP CANAL – Montlake Bridge – Special Bridge Notice

Seattle, WA. Vessels which do not require a bridge opening may continue to transit beneath this bridge during the closure. The bridge will be required to open, if needed, for vessels engaged in emergency response operations during this closure period. This deviation would allow the bridge to remain in the closed position two and a half hours before and two and a half hours after each game. The U.S. Coast Guard will inform the users of the waterway through our Local Broadcast Notices to Mariners of any change in this operating schedule. The bridge shall operate in accordance to 33 CFR § 117.897 at all other times. For more information, contact Barbara Rasaie at 425-739-3700.

Chart 18447

LNM: 33/16

WASHINGTON - BELLINGHAM BAY - BURLINGTON NORTHERN SANTA FE REPLACEMENT RAIL BRIDGE OVER BELLINGHAM BAY AT POST POINT LAGOON - Special Bridge Notice.

The U.S. Coast Guard has issued a public notice announcing a proposal from Burlington Northern Santa Fe Railway Company (BNSF), to replace a bridge over a navigable waterway of the United States at the unnamed shallow embayment informally known as Post Point Lagoon adjacent to Bellingham Bay at Bellingham, Washington at approximate position 48-43'06.22, 122-31'00.27 . BNSF proposes to replace the twin parallel bridges at the subject location. For further information regarding environmental implications and the scope of work please consult Public Notice 01-14 which solicits comment and is available at <http://www.navcen.uscg.gov/?pageName=pnBridges&Active=1®ion=13>. Question or comments can be addressed to the Bridge Administrator, Mr. Steve Fischer at (206) 220-7282, or email steven.m.fischer3@uscg.mil.

Chart 18421

LNM: 17/16

IDAHO - LAKE PEND OREILLE - Bridge Notice

The Burlington Northern Santa Fe Railroad Bridge 32 (LLNR 20087), Lake Pend Oreille mile 2.7, at Sandpoint, ID, will have inspection and repair work conducted from 16 Aug 16 to 14 Oct 16. The working hours will be from 0600 until 2000 seven days a week. The tug Josephine will position the barge C.E. Kramer at the bridge for the duration of the project. The C.E Kramer will be marked in accordance with the Navigation Rules (COLREGS-Inland). Scaffolding will be installed under the bridge. The vertical clearance will be reduced from 15 feet to 11 feet, one span at a time. The C.E. Kramer will moor under the span with scaffolding. Enclosure (5) of LNM 36/16 shows the location of the bridge and work plan. Mariners may transit under the bridge span when there is no active working, but are requested to maintain a minimum safe speed. For additional information, contact Charlie Kramer at 208-946-6820.

Chart 18554

LNM: 33/16

COLUMBIA RIVER AND SNAKE RIVER - Summer Seasonal Lockage Schedule for Recreational Craft (Revised from LNM 19/16)

The USACE Portland and Walla Walla Districts will implement the summer seasonal lockage schedule, from 15 May 16 to 15 Sep 16, for the passage of recreational craft through the navigation locks. When a recreational vessel lockage schedule is in effect, recreational vessels will only be allowed to lock through at the times designated, and during these times, they will take precedence over commercial vessels. At all other times, commercial vessels will continue to have lockage precedence over recreational vessels. Recreational vessels may be allowed to lock through with commercial vessels at the discretion of the lock operator.

Portland District	
Upstream	Downstream
0900	0930
1200	1230
1500	1530
1800	1830
2100	2130

Walla Walla District	
Upstream	Downstream
0900	0930
1201	1230
1500	1530
1800	1830
2100	2130

The USACE will consider special lockage's, outside the above scheduled lockage times, for flotillas or other unique requirements sponsored by yacht clubs, marinas, and other groups, provided advance (at least 24-hours) arrangements have been made with the appropriate control room operator. Contact the following control room operators via VHF-FM Ch.14 or commercial telephone for scheduling of special lockage's: For the lockage schedules and additional information, visit Portland's website at: <http://www.nwp.usace.army.mil/Missions/Navigation.aspx> and the Walla Walla website at: <http://www.nww.usace.army.mil/Missions/Navigation.aspx>, or the Operations Division at (509) 527-7115 or 7112. For additional information on safe boating procedures and locking through, visit the website: <http://www.nwp.usace.army.mil/Portals/24/docs/navigation/HowToLockThru.pdf>.

LNM: 21/16

OREGON – YAQUINA HEAD TO COLUMBIA RIVER; NETARTS BAY

NOAA's Pacific Marine Environmental Laboratory has deployed a yellow research lighted buoy at approximate position 44-40-10.860N 124-43-12.060W, approximately twenty eight nautical miles west of Yaquina Head, OR. The buoy is marked with a Fl Y 4s light and will be recovered from its station in mid-September 2016. For additional information contact Mr. Christian Meinig at 206-526-6149 or email Christian.Meinig@NOAA.gov.

Chart 18520

LNM: 22/16

OREGON – CAPE BLANCO TO CAPE FLATTERY – Undersea cable route survey

The R/V Geo Resolution will conduct an undersea telecommunications cable survey from 27 Jul 16 through 15 Sep 16 from Pacific City, OR, to the U.S. Exclusive Economic Zone boundary along the route shown in Enclosure (4) of LNM 31/16 between approximate positions 45-11.200N 123-56.300W and 42-50.000N 129-09.000W. The operation will consist of a 24/7 cable route survey including the stern deployment of a tethered sonar towfish at varying water depths to collect geophysical and bathymetric data for a proposed undersea cable. The maximum water depth of tow operations will be 1500 meters. The sonar sensor will be towed approx. 20-40 meters from the seafloor and up to 3 kilometers behind the vessel. The survey corridor is 500 meters centered on the survey centerline. Operations in water depths greater than 1500 meters will utilize hull mounted equipment. The vessel will stand by on VHF-FM Ch. 13 and 16. Additional vessel contact information is: Bridge VSAT PHONE: +65 3158 9828, MMSI: 538 005 923, INMARSAT-1B voice 4538 40052 or 4538 40053, vessel mobile: +852 5808 7208, or email the Captain at grcaptain@egssurvey.com.

Chart 18003

LNM: 28/16

OREGON - APPROACHES TO YAQUINA AND DEPOE BAY - YAQUINA BAY ENTRANCE – Shoaling reported in the Yaquina Bay Entrance Channel

The US Coast Guard has received a report of shoaling outside the entrance to Yaquina Bay, OR. The shoaling is reported as being 70 yards wide, 315 yards West-Southwest of the Yaquina Bay South Channel Jetty, between 44-36-31.080N 124-05-08.340W and 44-36-28.740N 124-05-06.180W. Depths 12 feet less than the charted depths have been observed. Mariners should exercise extreme caution when entering or departing Yaquina Bay, and transit on the northern side of the channel. An estimated location of the shoaling is attached as enclosure (4) of LNM 12/16.

Charts: 18561 18581

LNM: 12/16

OREGON - CAPE BLANCO TO YAQUINA HEAD AND OFFSHORE – Cable Laying Operations off the Oregon Coast (Revised from 40/14)

The University of Washington, as part of the Ocean Observatories Initiative (OOI), has installed underwater equipment and high voltage cable in the Pacific Ocean offshore of Pacific City and Newport, OR. This equipment is locally exposed at the seabed and/or in the water column. It is not marked by surface buoys.

Mariners are advised to avoid fishing, towing gear or anchoring in the safety areas centered on the coordinates provided in enclosure (5) of LNM 44/14. The avoidance radius is given in nautical miles and varies for each safety zone.

Positions for the OOI safety zones and submarine cable routes can be provided upon request in various formats including Nobeltec, Olex, Coastal Explorer, kml and GIS. The locations of the OOI underwater infrastructure will be charted in the near future.

For additional information or if you become entangled on the OOI infrastructure, please contact the RSN Hotline at (855) 665-1424 or OFCC cell (503) 440-3569 or email ooi-ofcc@uw.edu or 911@ofcc.com .

Charts: 18003 18580 18600

LNM: 41/14

COLUMBIA RIVER – PACIFIC OCEAN TO HARRINGTON POINT – Deterioration of the North and South Jetties at the Columbia River Entrance

The North and South Jetties at the Columbia River Entrance have suffered severe deterioration and may no longer be correctly represented upon the nautical charts of the area. Mariners should use caution when transiting in the vicinity of the jetties and the river entrance. The USACE has scheduled critical repairs of the North Jetty from June 2015 through October 2016, and rehabilitation of the South and North Jetties scheduled for the years 2016 through 2019. More information may be found at the USACE Portland District web site: <http://www.nwp.usace.army.mil/Locations/OregonCoast/MouthoftheColumbia.aspx>.

Charts: 18500 18520 18521

LNM: 04/15

COLUMBIA RIVER – PACIFIC OCEAN TO HARRINGTON POINT - Jetty A rehabilitation (Revised from LNM 30/16)

Kiewit Infrastructure Group will conduct rehabilitation work at Jetty A through approximately 21 Sep 16. Work hours will be 24/7 while the rock supply barge is being unloaded, then 0700-1930, Monday through Saturday while it is gone for refilling. The deck barge Dioskouroi and the tug Billy H will be moored to dolphins next to the inland side of the jetty to transfer rocks for the project. Both vessels will display proper navigation lights in accordance with the navigation rules. Billy H will monitor VHF-FM Ch. 13 and 16. Excavating vehicles and equipment will be lighted with work lights at night. For additional information contact Mr. Dustin Lehman at 907-942-4317 or Mr. Jeff Villagomez at 907-942-4317.

Chart 18521

LNM: 31/16

COLUMBIA RIVER - HARRINGTON POINT TO CRIMS ISLAND - CATHLAMET CHANNEL - Shoaling

Extensive shoaling has been reported on the west side of the Elochoman Slough entrance near Cathlamet, WA. Mariners should exercise caution when transiting this waterway, and keep to the east side of the channel. Mariners unfamiliar with the area should transit with extreme caution and not rely solely on aids to navigation while in the channel.

Chart 18523

LNM: 19/15

SAINT JOE RIVER – SAINT MARIES – Dredging at St. Maries, ID

Arcadis U.S. Inc. will conduct sediment remediation on the south side of the St. Joe River within the town of St. Maries, ID, from 01 Jul 16 through 01 Oct 16. Site activities include dredging, backfilling, and water quality monitoring. Operations are expected to occur 24 hours a day Monday through Saturday. The work area is located at approximate position 47-19-19.420N 116-34-46.550W. Three construction barges may be positioned near the dredging area, and monitoring buoys will be deployed during the construction period. Warning buoys, lights, and day shapes will be displayed. Mariners are requested to use caution and reduce wake when transiting the area. For additional information, contact Arcadis at 720-339-6657 or 408-772-5714.

SAINT JOE RIVER – SAINT MARIES – Dredging at St. Maries, ID

LNM: 24/16

COLUMBIA RIVER PACIFIC OCEAN TO HARRINGTON POINT; ILWACO HARBOR – Baker Bay West Channel shoaling

Extensive shoaling has been reported on the northern edge of Baker Bay West Channel, northwest of Baker Bay West Channel Light 11 (LLNR 14455). Mariners should exercise caution when transiting this waterway. Mariners unfamiliar with the area should transit with extreme caution and not rely solely on aids to navigation while in the channel. For additional information contact Mr. Jarod Norton at 503-808-4348.

Chart 18521

LNM: 02/16

WASHINGTON – GRAYS HARBOR – Hazard to navigation (Revised from LNM 07/16)

A 20 foot by 20 foot section of dock has sunk in the Hoquiam River in approximate position 46-58-41.035N 123-52-56.606W causing a hazard to navigation. The hazard is marked by a white can buoy with orange bands. Vessels are advised to use extreme caution while transiting the area, especially at low tide. For additional information mariners are advised to contact U. S. Coast Guard Sector Columbia River at 503-861-6211.

Chart 18502

LNM: 21/16

WASHINGTON – GRAYS HARBOR – Hazard to navigation

The U. S. Coast Guard has designated a previously unknown wreck at approximate position 46-58-03.660N 123-52-26.520W as a hazard to navigation. The vessel is 27' in length. It is above authorized depth and will further reduce the Federal Project Depth if it remains present for the eventual deepening of the channel. The vessel is located in an area of known shoaling and would cause difficulty for vessel dredging in the area. This wreck has been charted.

Chart 18502

LNM: 25/16

WASHINGTON – ABERDEEN AND WESTHAVEN – Embedded log

A dead head log that has become embedded at an angle in the harbor bottom has been located in the vicinity of the Elliot Slough turning basin at approximate position 46-58-31.447N, 123-46-54.255W. The object is submerged at high water. All mariners use caution when transiting the area. For additional information contact Mr. Craig Morton at (206) 764-3429 or email Craig.D.Morton@usace.army.mil.

Chart 18502

LNM: 10/16

WASHINGTON – COLUMBIA RIVER TO DESTRUCTION ISLAND – Subsurface moorings

NOAA has deployed subsurface acoustic recorder moorings for research at the locations listed in Enclosure (4) of LNM 07/16. The moorings are on station and will begin to be retrieved in July 2016. They are set at various depths up to 500 meters and as shallow as 40 meters. NOAA is requesting that mariners maintain a distance of 500 yards from the positions noted. For additional information contact Dr. M. Bradley Hanson at (206) 860-3220 or email brad.hanson@noaa.gov.

Charts: 18480 18500

LNM: 07/16

WASHINGTON - STRAIT OF JUAN DE FUCA – EASTERN PART - Temporary Deployment of lighted research buoy with seafloor equipment

Oregon State University will deploy a temporary lighted research buoy at approximate position 48-13-45.840N, 123-25-33.240W, within the traffic separation zone as shown in Enclosure (4) of LNM 26/16. Along with the surface buoy there is a separate piece of equipment placed on the seafloor close to the buoy's mooring. All equipment is to be deployed on or about 16 Jun 16 and recovered on or about 15 Sep 16. The surface buoy will be yellow and marked with a flashing yellow light that flashes every four seconds (FL Y 4s). For more information contact Dr. Holger Klinck at 541-867-0182 or email Holger.Klinck@oregonstate.edu.

Chart 18465

LNM: 23/16

WASHINGTON – PUGET SOUND – PORT GAMBLE – Marine construction

Orion Marine Contractors, Inc. will conduct construction operations including; pile removal, installation of capping materials, demolition of structures, and dredging at the former mill site located at the northwest corner of Port Gamble entrance to the south end of Port Gamble Bay. Operations will be from 15 Jun 16 through January 2017. Loaded material barges will transit through the entrance to Port Gamble from work locations on both sides of the former mill site and to work locations at the south end of the bay. All vessels will be lighted in accordance with the navigation rules. Mariners are requested to slow through the work area and stay clear of construction vessels and equipment. The crane and tugs will monitor VHF-FM Ch. 05A and 13. For additional information please contact Mr. Justin Strong at (253) 552-1140 or email jstrong@orionmarinegroup.com.

Chart 18458

LNM: 24/16

WASHINGTON – PUGET SOUND – APPLE COVE TO POINT KEYPORT – Temporary lighted buoy deployed.

NOAA has deployed a temporary research lighted buoy southwest of Spring Beach at approximate position 47-43-21.108N, 122-24-10.854W. The buoy is grey, conical shaped and marked with a flashing yellow four seconds (FL Y 4s) light. This buoy is scheduled to be removed prior to 01 Oct 16. For more information contact Mr. Christian Meinig at (206) 526-6149 or by e-mail at Christian.Meinig@noaa.gov.

Chart 18446

LNM: 14/16

WASHINGTON – TACOMA HARBOR – Metro Parks of Tacoma Point Defiance Waterfront Project

Pacific Pile and Marine will be excavating two areas near the shoreline of the town of Ruston for the Metro Parks of Tacoma Point Defiance Waterfront Phase 1 project. The excavating will be from 22 Aug 16 through 30 Sep 16. Work hours will be 0600 through 1700 Monday through Friday. There will be three barges spudded down on site. The barges will be marked at night in accordance with the Navigation Rules. The project will monitor VHF-FM ch. 13, 14, and 19. Mariners are requested to use caution and reduce wake when transiting the area. For additional

WASHINGTON – TACOMA HARBOR – Metro Parks of Tacoma Point Defiance Waterfront Project

information, contact Pacific Pile and Marine at 206-305-4119.

Chart 18453

LNM: 33/16

WASHINGTON – TACOMA HARBOR – PUYALLUP RIVER - Tacoma/Fife- I-5 Bridge Construction

Hamilton Construction Company is constructing the new I-5 bridge north of the existing northbound bridge over the Puyallup River. Operating hours are from 0700 to 1800, Monday through Saturday, subject to change. Two work trestles have been constructed in the river. One work trestle has been constructed along and parallel to the north bank and one along and parallel to the south bank with an 80' wide navigable channel between the 12" yellow floating booms that are anchored around the trestles at approximate position 47-14-25.700N 122-23-58.000W. The work trestle structures will remain in place until November 2017. No barges will be used on the project. There will be three yellow floating water quality monitoring stations anchored in the river that are marked with amber flashing lights. The stations' positions will move as the work progresses. There will be one station secured upriver, one downriver and one adjacent to the work area as shown in enclosure (6) of LNM 25/15. The monitoring stations are tethered to mooring buoys. Mariners are requested to not transit between the mooring buoys and the monitoring stations, remain in the 80' navigation channel, and reduce wake when transiting the area. For additional information contact Mr. Jeff Phillips at (541) 953-9179.

Chart 18453

LNM: 45/15

WASHINGTON – PUGET SOUND – NORTHERN PART – EVERETT HARBOR - Beach restoration (Revised from LNM 20/16)

Redside Construction will conduct a marine construction operation at Howarth Park, southwest of the Port of Everett. A spud barge, a deck barge and an equipment barge will place sediment for a beach restoration project. Tugs Fury and Mary Margaret will be on site and will monitor VHF-FM Ch. 05A and 13. All vessels will be lighted in accordance with the Navigation Rules. Barges and equipment will be shifted between the project site and the load out site on the Snohomish River upstream of the I-5 Highway Bridges (LLNR 18594.2). Operations will be conducted at varying times of day based on tides seven days a week from June through September 2016. Mariners are requested to transit the area with caution and reduce wake. For additional information, including details of the construction location, contact Mr. David Berry at 206-940-2529 or David@Redside.biz or Mr. Sam Berry at 206-940-0564 or Sam@Redside.biz.

Chart 18433

LNM: 21/16

WASHINGTON – PUGET SOUND – NORTHERN PART – EVERETT HARBOR

Orion Marine Contractors, Inc. will be performing dredging, transloading, and rock placement at the former Weyerhaeuser Mill A Site located south of Pier 1 near the Pacific Terminal at the Port of Everett. Operations will be 0600 to 1800, Monday to Friday, 08 Aug 16 through December 2016. Loaded material barges will transit daily between the dredge site south of Pier 1 near the Pacific Terminal and the transload location on the southern tip of the South Terminal. During the project, barges loaded with sediment for open water disposal will transit from the dredge location to the Port Gardner Open Water Disposal Site. Crane barge 1601, material barges ITB 166 and Westar 204, the dump barge Orion 2001, and the tug Skagit will be onsite, as well as support provided by Dunlap Towing. Rocks will be placed at the dredge site once dredging is complete. Mariners are requested to provide minimum wake in the work area and stay clear. The crane barge and tugs will monitor VHF-Fm Ch 05A and 13. For additional information please contact Mr. Casey Shaw at (253) 298-2243 or email cshaw@orionmarinegroup.com.

Chart 18443

LNM: 30/16

WASHINGTON – STRAIT OF JUAN DE FUCA TO STRAIT OF GEORGIA – FRIDAY HARBOR – Scientific Seafloor Equipment Deployment

Cornell University has deployed scientific seafloor equipment near the University of Washington Friday Harbor Labs dock. The equipment consists of four hydrophone mounts that extend four feet above the seafloor with a series of cables connecting them to a shore side facility. All associated equipment is scheduled to be removed by 15 Feb 18. Details of locations for the equipment and cables are shown in enclosure (4) of LNM 45/14. Mariners are advised to avoid dragging or deploying gear near these locations. For additional information, contact Mr. Charles H. Greene at (607) 275-1662 or email chg2@cornell.edu.

Chart 18434

LNM: 38/14

STRAIT OF JUAN DE FUCA TO STRAIT OF GEORGIA – BOUNDARY PASS AND HARO STRAIT - Placement of underwater equipment

Subsurface research buoys have been placed in Boundary Pass and Haro Strait at approximate positions 48-41-07.32N 123-16-26.10W and 48-30-23.68N 123-12-37.92W. The buoys are set to float approximately eight meters above the seabed. Additional subsea research buoys are located in Canadian waters. For additional information contact Mr. Marc LeBlanc at (250) 363-2034.

Chart 18421

LNM: 08/16

SECTION VIII - LIGHT LIST CORRECTIONS

An Asterisk *, indicates the column in which a correction has been made to new information

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
733	NOAA Environmental Lighted Buoy 46041	47-20-59.263N 124-42-13.366W	Fl (4)Y 20s			Yellow disc-shaped buoy.	Aid maintained by National Oceanic and Atmospheric Administration.

*

SECTION VIII - LIGHT LIST CORRECTIONS (Continued)

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
9145	SOUTH SLOUGH LIGHT 4 20 feet outside channel limit.	43-21-10.296N 124-19-07.506W	FI R 4s	15	4	TR on multi-pile structure.	37/16
9880	Nehalem River Entrance Range Front Daybeacon	45-39-23.900N 123-55-50.980W			*	KRW on multi-pile structure.	Due to seasonal changes in entrance channel, use only with local knowledge. Private Aid. 37/16
9885	Nehalem River Entrance Range Rear Daybeacon 120 yards, 085° from front daybeacon.	* 45-39-24.370N 123-55-46.030W				KRW on multi-pile structure.	Private Aid. 37/16
10307	<i>Jim Crow Lighted Buoy 22A</i>	* 46-15-44.700 N 123-31-37.380 W	FI R 4s		4	Red.	37/16
12942	WALLULA WATER INTAKE LIGHT A	46-05-05.514N 118-55-26.317W	FI Y 4s		*	On steel structure.	Private Aid. 37/16
19055	* ANACORTES CHANNEL LIGHT 4	* 48-30-16.385N 122-35-55.947W	FI R 4s	* 15	4	TR on pile.	37/16
20435	PORLIER PASS RANGE FRONT LIGHT (C)	49-00-46.500N 123-35-09.200W	F Y	22	*	White cylindrical tower.	37/16
20440	PORLIER PASS RANGE REAR LIGHT 483 yards, 196.1° from front light. (C)	* 49-00-32.900N 123-35-15.000W	F Y	34		* White square tower.	* 37/16
	*	*					

ENCLOSURES

Enclosure 1

OREGON - WASHINGTON - IDAHO - MONTANA - Summary of Bridge Lighting Discrepancies and Corrections

LNM: 37/16

Enclosure 2

OREGON - WASHINGTON - COLUMBIA RIVER - Summary of Dredging Operations

LNM: 37/16

Enclosure 3

OREGON - WASHINGTON - COLUMBIA RIVER - Summary of Marine Events

LNM: 37/16

Enclosure 4

Navigation, buoyage, and demolition activities at SR-520 floating bridge

LNM: 36/16

Enclosure 5

Puyallup River outfall work

LNM: 36/16

Enclosure 6

Canadian Coast Guard water properties survey

LNM: 37/16

Enclosure 7

Lake Pend Orielle bridge work

LNM: 37/16

If you have any questions, comments, or need additional information concerning this or other LNMs (e.g. additions, deletions, corrections) contact the address or phone number on the front page.

CDR Michele L. Schallip
Chief, Waterways Management Branch
Thirteenth Coast Guard District

BRIDGE LIGHTING DISCREPANCIES AND CORRECTIONS

Enclosure (1)

BRIDGE DISCREPANCIES						
Waterway	Light List	Bridge Name	Location	Status	Date Reported	BNM
OREGON COAST						
Siuslaw River	9558	US 101 Highway Bridge	Florence, OR	North margin channel red light extinguished	9/5/2016	0779-16
Siuslaw River	9573	CO&P Railroad Bridge	Florence, OR	SW, West, NE red pier lights extinguished	9/5/2016	0780-16
COLUMBIA RIVER						
Clatskanie River	10561	P&W Railroad Bridge	Clatskanie, OR	Clearance gauge broken	6/28/2016	0562-16
Columbia River	11801	Bridge of the Gods	Cascade Locks, OR	Upriver, north red pier light extinguished	7/22/2016	0629-16
Columbia River	13051	Kennewick-Pasco RR Bridge	Pasco, OR	3 white main span lights extinguished	8/1/2016	No BNM
SNAKE RIVER						
Snake River	13617	Sargent Railroad Bridge	Starbuck, WA	Up and down river side red pier light extinguished	9/12/2016	No BNM
WILLAMETTE RIVER						
None						
WASHINGTON COAST						
None						
PUGET SOUND						
None						
IDAHO						
Clearwater River	14072	Clearwater Memorial Bridge	Lewiston, ID	Down river northside 3 red pier lights extinguished	9/6/2016	0789-16
Clearwater River	14070	Camas Prairie Railroad Bridge	Lewiston, ID	Upriver bottom white main span light extinguished	9/6/2016	0790-16

BRIDGE LIGHTING DISCREPANCIES AND CORRECTIONS

Enclosure (1)

BRIDGE CORRECTIONS						
Waterway	Light List	Bridge Name	Location	Status	Date Reported	BNM
OREGON COAST						
None						
COLUMBIA RIVER						
Oregon Slough	11298	Oregon Slough Railroad Bridge	Portland, OR	All lights are watching properly	9/14/2016	No BNM
SNAKE RIVER						
None						
WILLAMETTE RIVER						
None						
WASHINGTON COAST						
None						
PUGET SOUND						
Swinomish Channel	19155.1	BNSF Railroad Bridge 12A	Whitmarsh, WA	All lights are watching properly	9/14/2016	No BNM
IDAHO						
None						

Dredging operations are scheduled or in progress at the following locations:

Start Date	End Date	Times	Location	Dredge Vessel	Assist Vessel	Channels Monitored	Disposal Area	LNM
18-Jul-16	24-Oct-16	24 Hrs, 7 Days	Coos Bay (RM 11+00 to 12+32)	M/V DB Oakland	M/V Koos King, M/V Captain Louie	VHF-FM 13, 16 & 66	ODMDS H & OS F	36/16
14-Sep-16	17-Sep-16	24 Hrs, 7 Days	Umqua River: Entrance (RM -1-10 to 1+30) (Foul WX Backup Coos Bay RM 5+30 to 8+35))	M/V Yaquina	None	VHF-FM 13 & 16	Ocean Site	37/16
6-Sep-16	14-Sep-16	24 Hrs, 7 Days	Yaquina Bay Entrance (RM 0+50 to 0+20 and 1+18 to 1+45)	M/V Yaquina	None	VHF-FM 13 & 16	Ocean Site	36/16
18-Sep-16	27-Sep-16	24 Hrs, 7 Days	Yaquina Bay Entrance (RM 0+50 to 0+20 and 1+18 to 1+45)	M/V Yaquina	None	VHF-FM 13 & 16	Ocean Site	37/16
22-Aug-16	24-Sep-16	24 Hrs, 7 Days	Yaquina River; Depot Slough (RM 14, Slough Mile 00+10 to 00+20)	M/V Sea Hawk	M/V Island Wind	VHF-FM 13, 16 & 66	ODMDS South	36/16
25-Aug-16	17-Sep-16	24 Hrs, 7 Days	Columbia River: Columbia River Entrance (RM -2-00 to +3+00) & Foul WX Backup at Tongue Point Crossing (RM 18+20 to 21+10)	M/V Essayons	None	VHF-FM 13 & 16	DWS, SJS; and RM 18 to 21	37/16
25-Jul-16	26-Sep-16	24 Hrs, 7 Days	Columbia River; Entrance (RM -2-10 to +2+30) Foul WX Backup Flavel Bar (RM 11+00 to 12+30)	M/V Bayport	M/V John M	VHF-FM 13,16 & 66	SWS, NJS, DWS, W-7.2-IW	36/16
24-Aug-16	23-Sep-16	24 Hrs, 7 Days	Columbia River: Pillar Rock (RM 29+00 to 30+00)	M/V Oregon	M/V Clackamas, M/V Ivanoff, M/V WL Williams	VHF-FM 13,16 & 66	On Shore	37/16
1-Oct-16	31-Oct-16	24 Hrs, 7 Days	Columbia River: Barlow Point Channel & Port of Longview (RM 63.0 to 64.5)	M/V Sea Horse	M/V Husky	VHF-FM 13,16 & 69	RM 61.3 & 62.5	37/16
1-Sep-16	15-Sep-16	24 Hrs, Mon-Sat	Columbia River: Port of Kalama (RM 76.8 to 77.5)	M/V Sea Horse	M/V Husky	VHF-FM 13,16 & 66	RM 77.48 OR	34/16
9-Sep-16	6-Oct-16	Daylight Hours, Mon-Sat	Willamette River; Willamette Park Boat Ramp, RM 16	M/V Sea Horse	M/V Husky	VHF-FM 13,16 & 66	Columbia RM 89 to 90	34/16
12-Sep-16	10-Nov-16	24 Hrs, 7 Days	Skipanon Channel, RM 00+20 to 01+25	M/V Heidi Renee	M/V Norton Bay, M/V Sand Island	VHF-FM 13 & 16	W-10.5-IW O-9.5-IW	36/16
10-Oct-16	15-Feb-17	24 Hrs, 7 Days	Port of Tacoma; Blair Waterway Pier 4	M/V DB Njord	M/V Peter M M/V Wahoo	VHF-FM 13, 16 & 67	DMMP OWDS	37/16

Mariners are advised that the start and ending dates for dredging activities may vary due to unforeseen on-site conditions, gill net fishing and weather and other factors.

The US Army Corps of Engineer dredges request mariners transit at their slowest safe speed to minimize wake when in the vicinity of a dredge and proceed after passing arrangements have been made. Vessel (s) and/or equipment may encroach into the channel.

MARINE EVENTS

Enclosure (3)

SECTOR COLUMBIA RIVER MARINE EVENTS

11-Sep-16	0800-1800	Portland Dragon Boat Races	Willamette River between Marquam and Hawthorne bridges
17-Sep-16	1200-1800	OCSA Sailboat Races	Columbia River between I-5 and I-205 bridges
18-Sep-16	0630-0930	Portland Triathlon	Willamette River, Cathedral Park
18-Sep-16	0800-1200	Head of the Dog Rowing Regatta	Multnomah Channel of Willamette River

SECTOR PUGET SOUND MARINE EVENTS

EVENT DATE	TIME	EVENT NAME	EVENT LOCATION
13-Sep-16	1100-1431	Lake Washington Tuesday Evening Nights	Lake Washington
13-Sep-16	1100-1432	Duck Dodge Seattle	Lake Union
14-Sep-16	1100-1433	Sound Evenng Series- Wednesday Night	Shilshole Bay
14-Sep-16	1100-1434	Lake Evening Series Wednesday Nights	Lake Washington
14-Sep-16	1100-1435	Fidalgo Bay Bouy Races	Fidalgo Bay
15-Sep-16	1100-1436	Sound Evenng Series- Thursday Night	Shilshole Bay
16-Sep-16	1100-1437	Brownsville Six Pack Series	Sinclair Inlet
17-Sep-16	1100-1438	SBYC Saturday Series	Sequim Bay
17-Sep-16	1100-1439	Lake Fall Regatta	Lake Washington
17-Sep-16	1100-1440	SYC Stimson Predicted Log Race	Port Madison. Bainbridge Island
17-Sep-16	1100-1441	Sound Rowers budd Inlet race	Budd inlet
17-Sep-16	1100-1442	SBYC TransPuget Race	Shilshole Bay WA
17-Sep-16	1100-1443	Round The Rock	New Castle Beach Park, Lake Washington
17-Sep-16	1100-1444	Point Series #1 Pt Robinson	Commencement Bay
17-Sep-16	1100-1445	Bellingham Traverse	Bellingham Bay
18-Sep-16	1100-1446	Lake Fall Regatta	Lake Washington
18-Sep-16	1100-1447	2016 Fall Nitecap Series	Port Townsend Bay
23-Sep-16	1100-1448	Brownsville Six Pack Series	Sinclair Inlet
24-Sep-16	1100-1449	SBYC Saturday Series	Sequim Bay
24-Sep-16	1100-1450	Long Lake Bass Club Tournament	Lake Washington
24-Sep-16	1100-1451	Fall Series	Port Gardner
24-Sep-16	1100-1452	North American Invitational predicted Navigational Contes	Around Bainbridge Island
24-Sep-16	1100-1453	Fall Race	central puget sound
24-Sep-16	1100-1454	Annual Around Bainbridge Island Sailboat Race	Port Madison
24-Sep-16	1100-1455	NW Harvest Benefit Regatta	Shilshole Bay
24-Sep-16	1100-1456	Fall Series	East Passage Des Moines
24-Sep-16	1100-1457	Big Hurt	Port Angeles Harbor
25-Sep-16	1100-1458	Annual Around Bainbridge Island Sailboat Race	Port Madison
25-Sep-16	1100-1459	2016 Fall Nitecap Series	Port Townsend Bay
27-Sep-16	1100-1460	Salish I - Bird Rocks	Guemes Channel

MARINE EVENTS

Enclosure (3)

30-Sep-16	1100-1461	Brownsville Six Pack Series	Sinclair Inlet
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SR520 construction mooring buoys as of 06Jul16



SR 520 Bridge Replacement and HOV Program



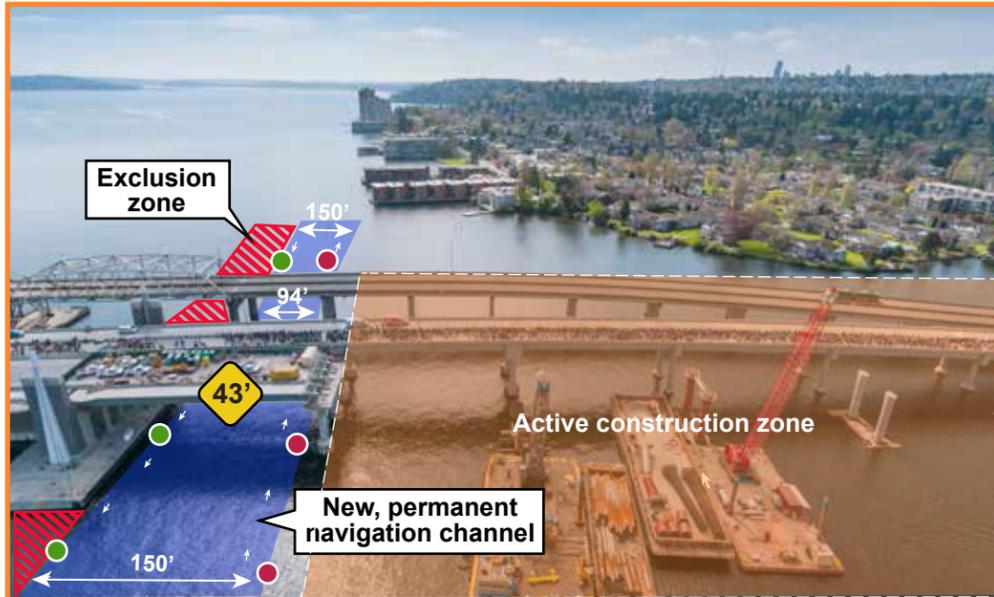
I-5 to Medina: Bridge Replacement and HOV Project

September 2016

Navigation changes on Lake Washington at SR 520

UPDATE: East navigation channel open at full 70' height

A West navigation channel



The west navigation channel is open at its full height of 43 feet.

B Drawspan blocked

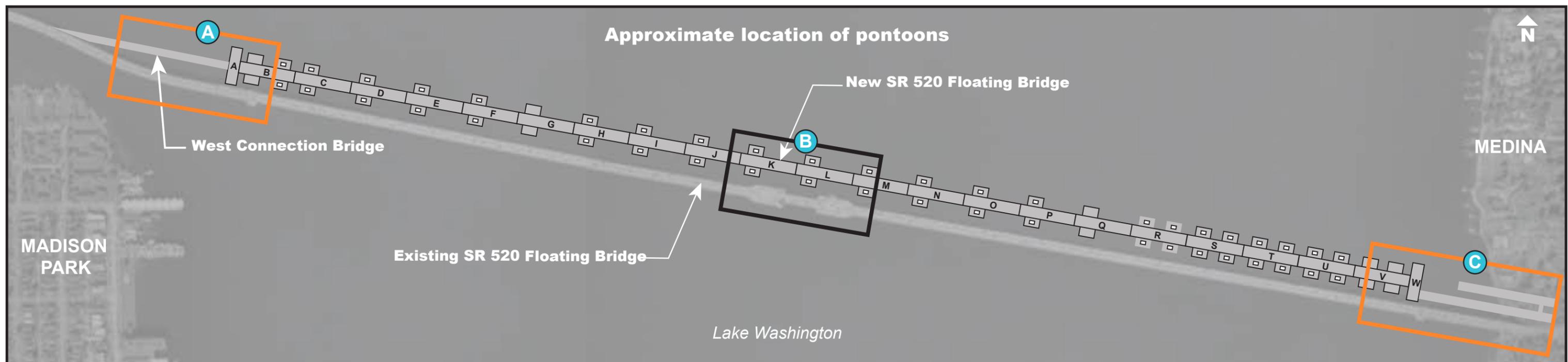


Drawspan blocked as of Feb. 17, 2015.

C East navigation channel



The east navigation channel is open at its full height of 70 feet. The eastern side, as noted in the graphic, is currently 65 feet tall.



SR 520 BRIDGE REPLACEMENT AND HOV PROGRAM



Upcoming decommissioning activities

NEAR FLOATING BRIDGE NAVIGATION CHANNELS

The following are upcoming decommissioning activities that boaters should be aware of. Please note that for both above water and below water work, boaters will see barges and equipment around the piers and will need to stay clear of the work zone. Due to the dynamic nature of construction, these dates may change and we will continue to update boaters through our website and boater email updates regarding navigation channel closures.

East navigation channel

Beginning in early August, crews began removing the columns and crossbeam for old Pier 41 (shown in yellow below), near Medina.

In mid-August, boaters using the east navigation channel saw much shorter, 6 to 8-foot-tall columns in this location (shown in red below). These shorter columns are scheduled to remain in this location until mid-September, while crews move to the west side, near Madison Park, to complete similar decommissioning activities.



West navigation channel

Decommissioning of old Pier 40 (shown in green below), near Madison Park, began at the end of August and is expected to take up to three weeks to complete. When crews are done with this work, the columns will be completely removed from the lake.

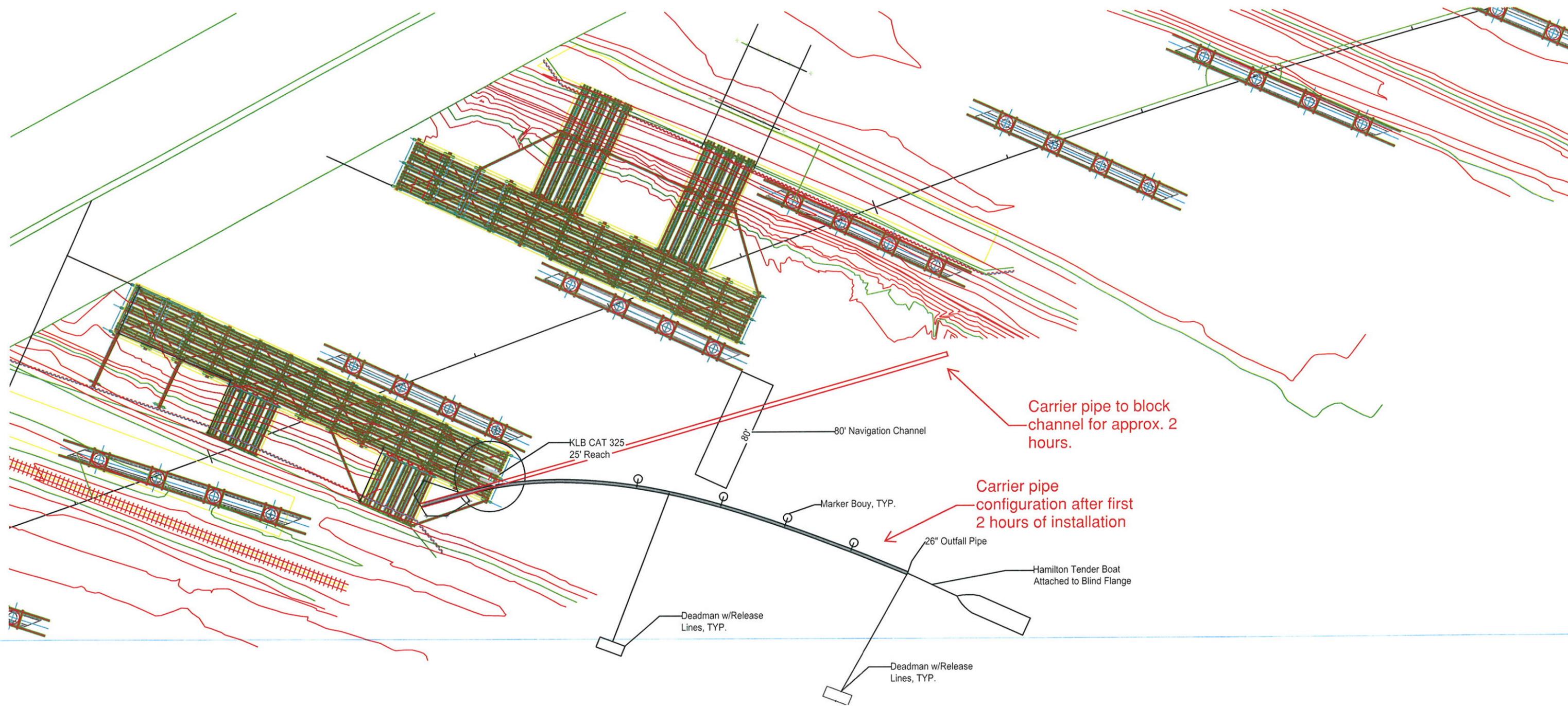
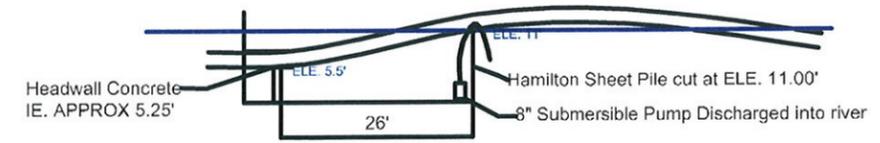
Crews continue to remove roadway deck and girders on both sides of the lake. The hollow (round) columns (shown in yellow below) and crossbeams on both the east and west sides of the old bridge, will remain until this fall.



Americans with Disabilities Act (ADA) Information: This material can be made available in an alternate format by emailing the Office of Equal Opportunity at wsdotada@wsdot.wa.gov or by calling toll free, 855-362-4ADA(4232). Persons who are deaf or hard of hearing may make a request by calling the Washington State Relay at 711.

Title VI Notice to Public : It is the Washington State Department of Transportation's (WSDOT) policy to assure that no person shall, on the grounds of race, color, national origin or sex, as provided by Title VI of the Civil Rights Act of 1964, be excluded from participation in, be denied the benefits of, or be otherwise discriminated against under any of its federally funded programs and activities. Any person who believes his/her Title VI protection has been violated, may file a complaint with WSDOT's Office of Equal Opportunity (OEO). For additional information regarding Title VI complaint procedures and/or information regarding our non-discrimination obligations, please contact OEO's Title VI Coordinator at (360) 705-7082.

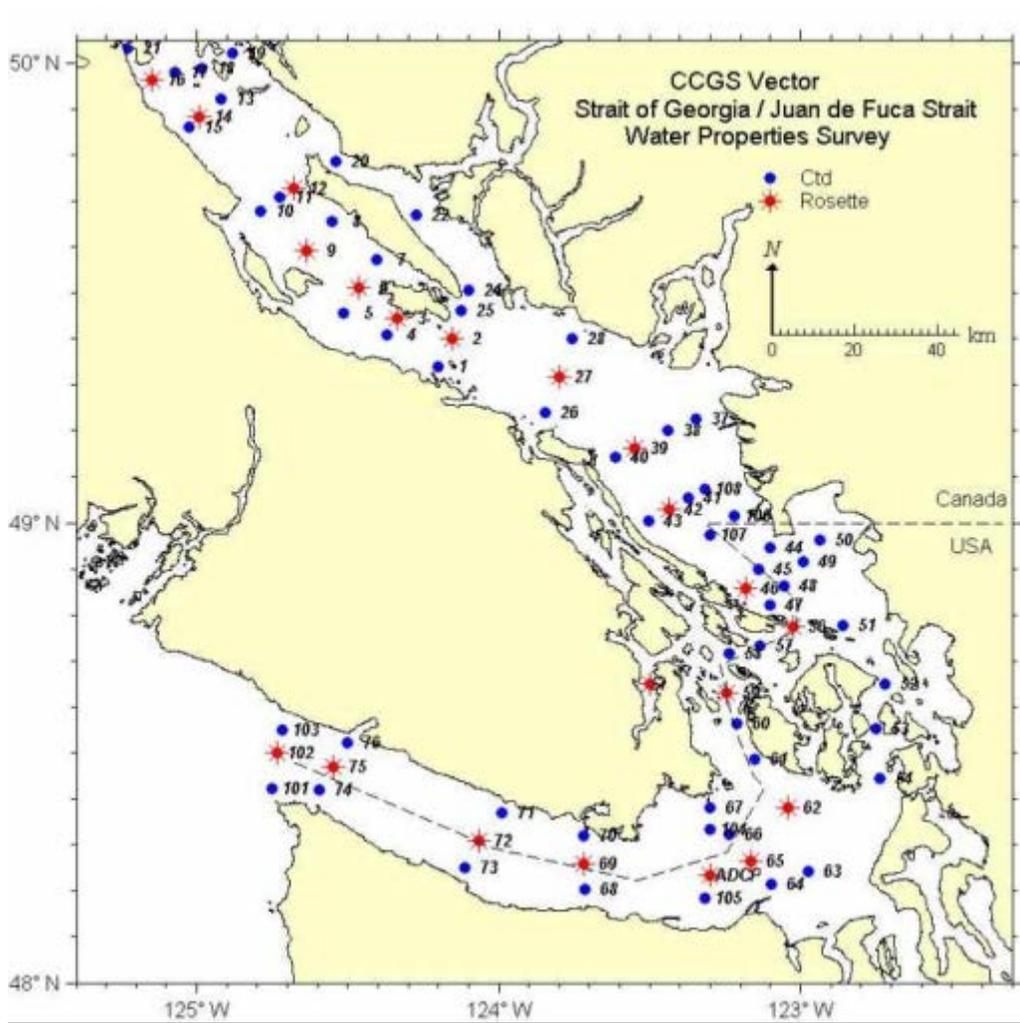
Installation Detail



Enclosure (6)

CCGS Vector's survey includes 76 stations in the Juan de Fuca Strait and Strait of Georgia with the following 27 stations in US waters.

Station	Lat		Lon	
44	48	56.80	123	6.00
45	48	53.90	123	8.40
48	48	51.70	123	3.20
49	48	55.00	122	59.60
50	48	57.70	122	56.10
51	48	46.70	122	51.60
52	48	38.90	122	43.30
53	48	33.20	122	45.00
54	48	26.60	122	44.30
56	48	46.40	123	1.60
57	48	44.00	123	8.10
58	48	43.00	123	14.30
59	48	37.80	123	14.60
60	48	33.90	123	12.80
61	48	29.20	123	9.20
62	48	22.80	123	2.60
63	48	14.60	122	58.50
64	48	12.80	123	5.80
65	48	15.90	123	9.80
68	48	12.20	123	43.00
72	48	18.60	124	4.00
73	48	15.00	124	6.70
74	48	25.10	124	35.60
101	48	25.40	124	45.14
102	48	30.00	124	44.00
105	48	11.00	123	19.00
ADCP	48	14.00	123	18.00



Enclosure (7)



PROJECT LOCATION

VICINITY MAP

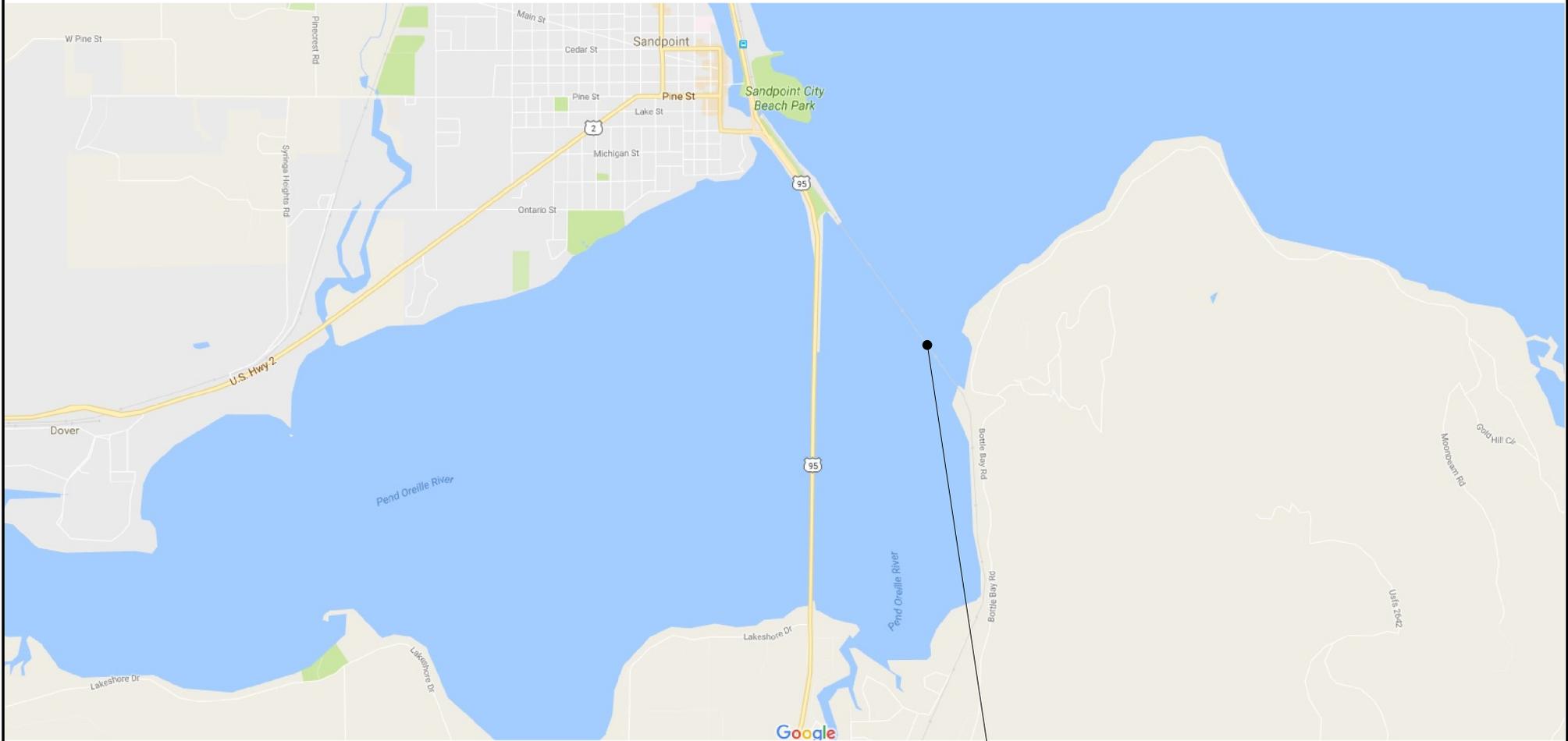


REFERENCE:
 APPLICANT: BNSF RAILWAY
 ADJACENT PROPERTY OWNERS:

LOCATION: BNSF 3.9
 LAT/LONG: 48.257049 N
 -116.527838 W
 DATE: 08/12/2016
 PAGE 1 OF 4

PROPOSED PROJECT: Repairs of Br. 3.9
 IN: LAKE PEND OREILLE
 NEAR/AT: SANDPOINT, ID
 COUNTY: BONNER
 STATE: ID

Enclosure (7)



PROJECT LOCATION

LOCATION MAP



REFERENCE:
APPLICANT: BNSF RAILWAY
ADJACENT PROPERTY OWNERS:

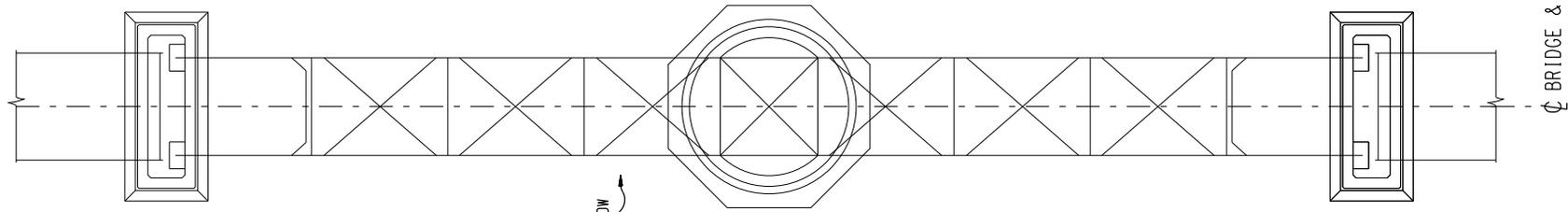
LOCATION: BNSF 3.9
LAT/LONG: 48.257049 N
 -116.527838 W
DATE: 08/12/2016
PAGE 2 OF 4

PROPOSED PROJECT: Repairs of Br. 3.9
IN: LAKE PEND OREILLE
NEAR/AT: SANDPOINT, ID
COUNTY: BONNER
STATE: ID

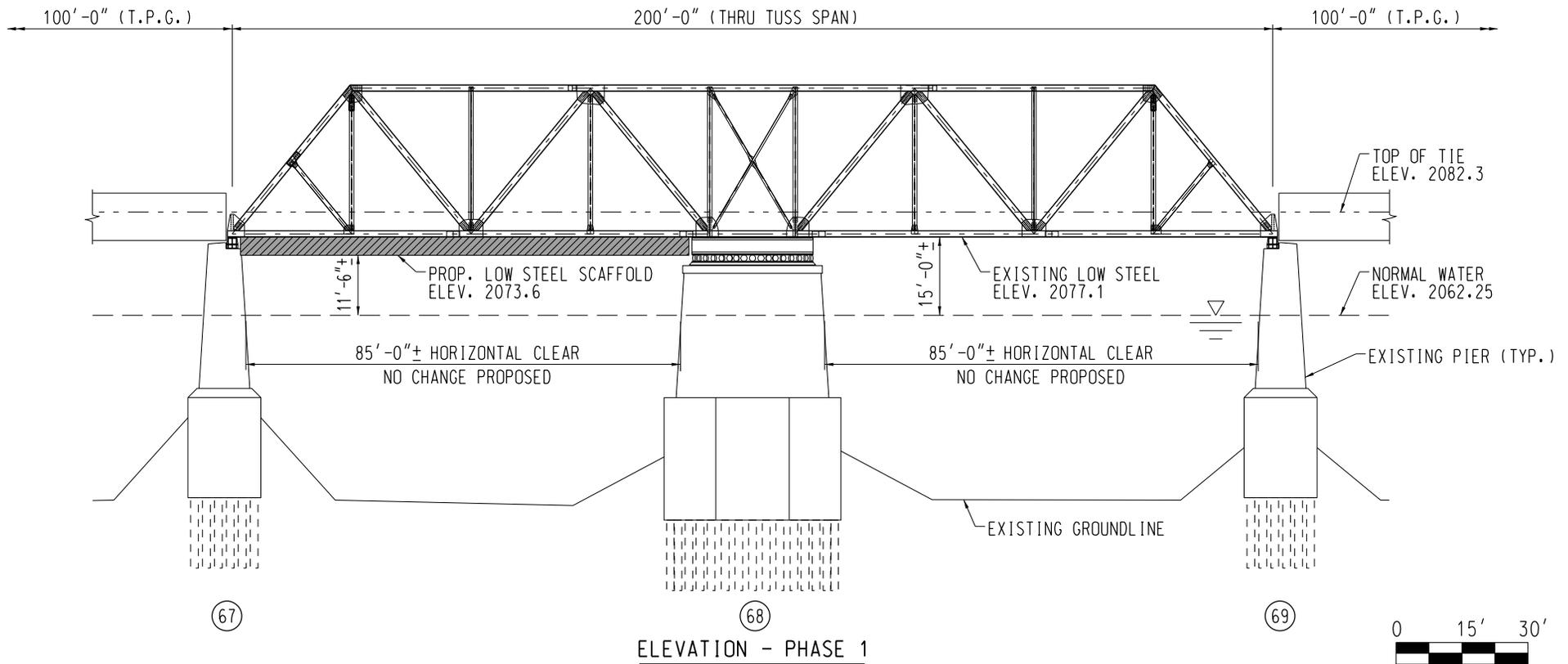
EAST
TO SANDPOINT JCT.

WEST
TO LAKESIDE JCT.

Enclosure (7)



PLAN - PHASE 1



ELEVATION - PHASE 1

REFERENCE:
 APPLICANT: BNSF RAILWAY
 ADJACENT PROPERTY OWNERS:

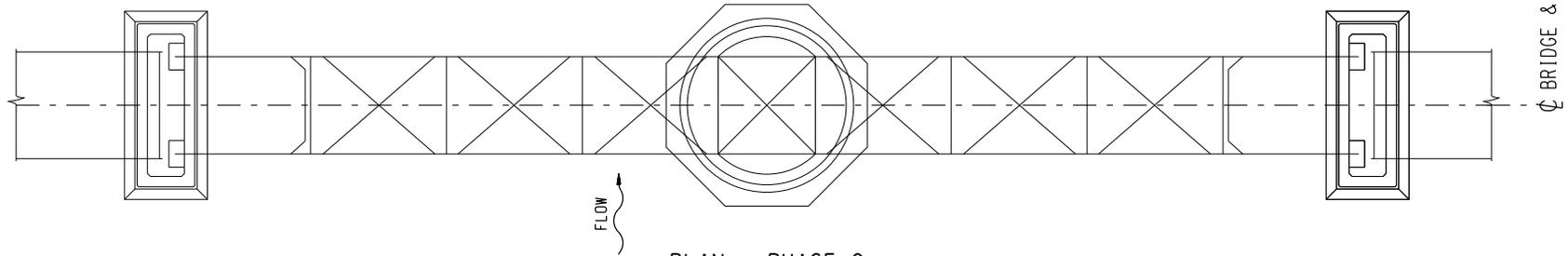
LOCATION: BNSF 3.9
 LAT/LONG: 48.257049 N
 -116.527838 W
 DATE: 08/12/2016
 PAGE 3 OF 4

PROPOSED PROJECT: Repairs of Br. 3.9
 IN: LAKE PEND OREILLE
 NEAR/AT: SANDPOINT, ID
 COUNTY: BONNER
 STATE: ID

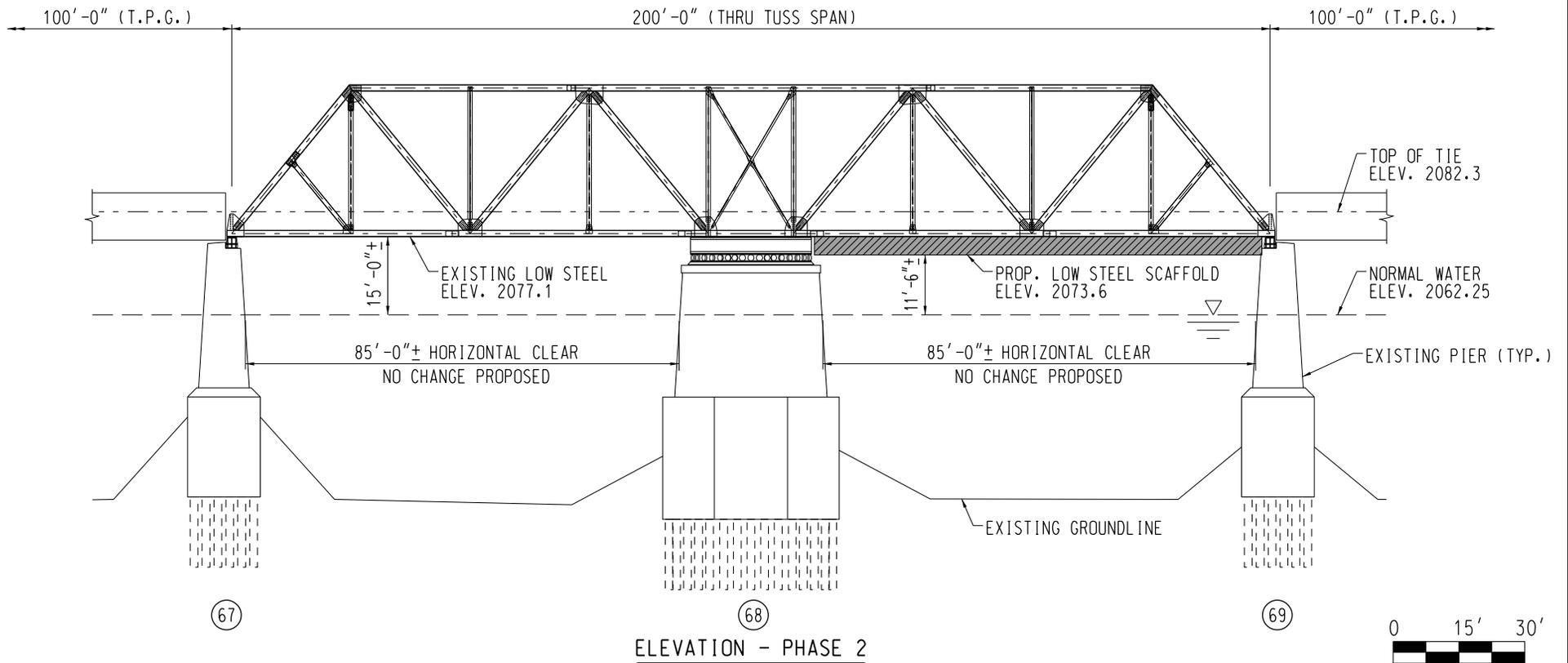
EAST
TO SANDPOINT JCT.

WEST
TO LAKESIDE JCT.

Enclosure (7)



PLAN - PHASE 2



ELEVATION - PHASE 2

REFERENCE:
 APPLICANT: BNSF RAILWAY
 ADJACENT PROPERTY OWNERS:

LOCATION: BNSF 3.9
 LAT/LONG: 48.257049 N
 -116.527838 W
 DATE: 08/12/2016
 PAGE 4 OF 4

PROPOSED PROJECT: Repairs of Br. 3.9
 IN: LAKE PEND OREILLE
 NEAR/AT: SANDPOINT, ID
 COUNTY: BONNER
 STATE: ID