



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

## LOCAL NOTICE TO MARINERS

**District: 13**

**Week: 33/16**

ISSUED BY: COMMANDER, THIRTEENTH COAST GUARD DISTRICT (dpw)  
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<http://www.navcen.uscg.gov/?pageName=InmDistrict&region=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](mailto: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	D13-0699-16	D13-0720-16

### 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

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**SECTION I - SPECIAL NOTICES**

This section contains information of special concern to the Mariner.

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**COLUMBIA RIVER – PORT OF PORTLAND, INCLUDING VANCOUVER; MULTNOMAH CHANNEL-SOUTHERN PART – Bridge Notice**

The U.S. Coast Guard has issued a temporary deviation from the operating schedule that governs the Interstate 5 Highway Bridge (LLNR 11258) across the Columbia River, RM 106.5, between Portland, OR and Vancouver, WA from 1000 until 1300 on 05 Sep 16. This deviation is necessary to facilitate heavier than normal pedestrian traffic for the Hands across the Bridge event, and allows the bridges to remain in the closed-to-navigation position during the event and need not open for maritime traffic. The Bridge provides three designated navigation channels with vertical clearances ranging from 39 to 72 feet above Columbia River Datum 0.0 while the lift spans are in the closed-to-navigation position. The lift spans will be required to open, if needed, for vessels engaged in emergency response operations during this closure period. Vessels which do not require a bridge opening may continue to transit beneath the bridges during this closure period. The bridge shall operate in accordance to 33 CFR § 117.869 at all other times. In accordance with 33 CFR 117.35(e), the drawbridge must return to its regular operating schedule immediately at the end of the designated time period. For more information, contact Ms. Patty Katz at (503) 208-4282.

Chart 18526

LNM: 33/16

**COLUMBIA RIVER - BONNEVILLE TO THE DALLES - Hood River Highway Bridge notice (Revised from LNM 31/16)**

The Hood River Bridge (LLNR 11933), at Columbia River mile 169.8, has returned to fully operational status. For additional information, contact Mr. Michael S. McElwee at (541) 386-1138.

Chart 18532

LNM: 33/16

**WASHINGTON – PUGET SOUND – ENTRANCE TO HOOD CANAL - U.S. Navy Subsea Operations near the Hood Canal Bridge**

The U.S. Navy will be conducting unmanned submerged vehicle operations in the vicinity of the Hood Canal Bridge (LLNR 17769) and Salisbury Point. All vessels operating in the vicinity of the Hood Canal Bridge and Salisbury point are advised to operate with caution from 0600 through 2000 on 18 Aug 16. For additional information, contact Senior Chief (SS) Colman Racey at 360-315-4163, 360-286-3683, or email Colman.Racey@navy.mil.

Chart 18477

LNM: 33/16

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

Chart 18453

LNM: 33/16

**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 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:

- 03 Sep 16 0830 to 1100 and 1430 to 1700
- 10 Sep 16 1130 to 1400 and 1730 to 2000
- 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 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 - LAKE WASHINGTON SHIP CANAL - LAKE WASHINGTON - SR-520 SPECIAL BRIDGE NOTICE - Critical Navigation Notice (Revised from LNM 32/16)**

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 31 Aug 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.

The eastern navigation channel will be marked with red and green navigational buoys as shown in Enclosure (4) of this LNM. The eastern navigation channel has increased to 224 feet in width.

Mariners are advised to use caution while transiting near derrick (crane) barges within the SR520 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.

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.

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. The vertical clearance for the new east channel is 70 ft. Vessels with an air draft of greater than 44 feet but less than 70 feet may continue to use the east navigation channel.

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 (Fl 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: 33/16

**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) 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

**OREGON – UMPQUA RIVER – REEDSPORT – Special Bridge Notice**

The U.S. Coast Guard has issued a deviation to the operating schedule governing the U.S. 101 Bridge (LLNR 9089) crossing the Umpqua River at mile 11.1, near Reedsport, OR. The deviation allows the U.S. 101 Bridge to remain in the closed-to-navigation position and need not open for maritime traffic from 0700 16 Aug 16 through 1700 18 Aug 16. This deviation is necessary to accommodate electrical upgrades to the bridge. Vessels which do not require bridge openings may continue to transit beneath these bridges during the closure periods. For information contact Mr. Bryan Mast, Southwest Oregon Bridge Maintenance Manager, ODOT, at (541) 404-0020.

Chart 18584

LNM: 31/16

**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&region=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](mailto:d13-pf-d13bridges@uscg.mil).

Chart 18587

LNM: 31/16

**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 – BLALOCK ISLANDS TO MCNARY DAM – McNary Dam Navigation Lock outage**

McNary navigation lock, located at Columbia River mile 292.0, will be out of service 0800 through 1700 on 22 Aug 16. The outage is necessary to perform an underwater inspection of the downstream miter gate. The lock will be returned to service as soon as the work is completed. For additional information contact USACE Walla Walla District Operations Division at 509-527-7115 or 509-527-7112.

Chart 18539

LNM: 31/16

**WASHINGTON – STRAIT OF JUAN DE FUCA TO STRAIT OF GEORGIA AND PUGET SOUND – WHIDBEY ISLAND DGPS SITE –DGPS off-air time**

The U.S. Coast Guard Navigation Center has approved off-air time for the Whidbey Island, WA DGPS site for scheduled maintenance from 1000 to 1300 on 17 Aug 16, with an alternate time of 1000 to 1300 on 18 Aug 16. There will be no significant loss of coverage due to dual coverage in the area. For additional information or objections, contact the Navigation Center DGPS Operations at (703) 313-5902 or at <http://www.navcen.uscg.gov/?pageName=dgpsSiteInfo&currentOutages>.

Charts: 18421 18440 18465

LNM: 30/16

**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

## 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
<b>765.38</b>	<b>DART Tsunami Warning Lighted Buoy 46451</b>	<b>ADRIFT</b>	<b>18003</b>	<b>0709-16</b>	<b>33/16</b>	
9605	Yaquina Bay South Jetty Light 4	STRUCT DEST	18581	1075-15	50/15	
10280	Pillar Rock Upper Range Rear Light	REDUCED INT	18523	0609-16	29/16	
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	
11770	Bonneville Pool Light 4	STRUCT DEST	18531	0905-10	37/10	
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	0870-15	41/15
19335	Williamson Rocks Lighted Buoy 4	OFF STA	18427	0673-16	31/16

**DISCREPANCIES (FEDERAL AIDS) CORRECTED**

LLNR	Aid Name	Status	Chart No.	BNM Ref.	LNM St	LNM End
11495	Lady Island Range Rear Light	WATCHING PROPERLY	18531	None	33/16	33/16
15770	Grays Harbor North Channel Lighted Buoy 36	RELIGHTED	18502	0721-16	33/16	33/16
19020	Padilla Bay Lighted Bell Buoy 4	RELIGHTED	18424	None	33/16	33/16

**DISCREPANCIES (PRIVATE AIDS)**

LLNR	Aid Name	Status	Chart No.	BNM Ref.	LNM St	LNM End
652	OSU Yaquina Research Lighted Buoy	MISSING	18561	None	21/16	
12942	Worden Farms Pump Station Light A	LT EXT	18542	0630-16	30/16	
17731	Hood Canal Mariculture Lighted Buoys (2)	MISSING	18477	0598-16	29/16	
19284	Bellingham Bay Research Lighted Buoy B	OFF STA	18424	0420-16	20/16	
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
635	Heceta Head Lighthouse	RELIGHTED	18580	None	33/16	33/16
14959.3	Zidell Regulatory Lighted Buoy C	WATCHING PROPERLY	18526	0699-16	31/16	33/16

**PLATFORM DISCREPANCIES**

Name	Status	Position	BNM Ref.	LNM St	LNM End
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None

**PLATFORM DISCREPANCIES CORRECTED**

Name	Status	Position	BNM Ref.	LNM St	LNM End
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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
9825	Tillamook Bay Entrance Regulated Navigation Area Warning Sign	DISCONTINUED	18558	0382-16	19/16	
10585	Eureka Dike Light 77	RELOCATED	18523	0250-14	15/14	
11150	Willow Dike Light 23	TRLB	18525	0177-14	10/14	
11770	Bonneville Pool Light 4	TRLB	18531	0909-10	38/10	
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	
<b>14432</b>	<b>Baker Bay West Channel Buoy 6A</b>	<b>DISCONTINUED FOR DREDGING</b>	<b>18521</b>	<b>0704-16</b>	<b>33/16</b>	
<b>14457</b>	<b>Baker Bay West Channel Lighted Buoy 11</b>	<b>DISCONTINUED FOR DREDGING</b>	<b>18521</b>	<b>0705-16</b>	<b>33/16</b>	

**TEMPORARY CHANGES CORRECTED**

LLNR	Aid Name	Status	Chart No.	BNM Ref.	LNM St	LNM End
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None

**PLATFORM TEMPORARY CHANGES**

Name	Status	Position	BNM Ref.	LNM St	LNM End
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None

**PLATFORM TEMPORARY CHANGES CORRECTED**

Name	Status	Position	BNM Ref.	LNM St	LNM End
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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.

<b>18524</b>	<b>37th Ed.</b>	<b>01-JUN-11</b>	<b>Last LNM: 30/16</b>	<b>NAD 83</b>		<b>33/16</b>
<i>Chart Title: Columbia River Crims Island to Saint Helens</i>						
<b>Main Panel 1740 COLUMBIA RIVER CRIMS ISLAND TO SAINT HELENS. Page/Side: N/A</b>						
ADD	Obstruction; Obstn PA			Chart No. 1: K40 (NOS NW-25827)	NOS 46-03-45.000N	122-53-21.000W

<b>18587</b>	<b>71st Ed.</b>	<b>01-APR-11</b>	<b>Last LNM: 16/16</b>	<b>NAD 83</b>		<b>33/16</b>
<i>Chart Title: Coos Bay</i>						
<b>Main Panel 1796 COOS BAY. Page/Side: N/A</b>						
CHANGE	Tabulation - COOS BAY, ISTHMUS SLOUGH AND CHARLESTON CHANNEL DEPTHS				NOS 43-22-51.000N	124-15-07.000W
<a href="http://ocsddata.ncd.noaa.gov/ntm/SupportImage.aspx?ItemID=266649">http://ocsddata.ncd.noaa.gov/ntm/SupportImage.aspx?ItemID=266649</a> ; Tabulation - COOS BAY, ISTHMUS SLOUGH AND CHARLESTON CHANNEL DEPTHS (NOS NW-25808)						

**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**

<u>Approved Project(s)</u>	<u>Project Date</u>	<u>Ref. LNM</u>
None		
<u>Advance Notice(s)</u>		

**WASHINGTON – STRAIT OF JUAN DE FUCA – Addition of a whistle to the Strait of Juan de Fuca Traffic Separation Lane Lighted Buoy “J”**

The U.S. Coast Guard will be adding a wave activated whistle sound signal to the Strait of Juan de Fuca Traffic Separation Lane Lighted Buoy J (LLNR 755 -16135) during August or September of 2006. No other characteristics for this lighted buoy will change.

Charts: 18460 18480

LNM: 32/16

**COLUMBIA RIVER – VANCOUVER TO BONNEVILLE – Change of Bonneville Pool Light 4 to Lighted Buoy 4**

In September of 2010 Bonneville Pool Light 4 (LLNR 11770) was destroyed. Since that time, a small temporary lighted buoy has been in place. Due to an unknown time frame for the rebuilding of the structure, the U.S. Coast Guard will change the temporary lighted buoy to a permanent and larger lighted buoy, and increase the nominal range of the light from 3 NM to 4 NM. The lighted buoy will be set in approximate position 45-38-29.011N 121-55-59.008W.

Chart 18532

LNM: 28/16

**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 01 Aug 2016 through 01 Jun 2017. For the majority of this period the light will not be able to operate. Once a specific date is determined, a Broadcast Notice to Mariners will be issued upon the disestablishment of the light.

Chart 18500

LNM: 25/16

**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

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**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).

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**PROPOSED WATERWAY PROJECTS OPEN FOR PUBLIC COMMENT**

<b><u>Proposed Project(s)</u></b>	<b><u>Closing</u></b>	<b><u>Docket No.</u></b>	<b><u>Ref. LNM</u></b>
<b>None</b>			

**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 (54to 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

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## SECTION VII - GENERAL

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

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### 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: 33/16

### SUMMARY OF DREDGING OPERATIONS

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

LNM: 33/16

### SUMMARY OF MARINE EVENTS

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

LNM: 33/16

### 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 - 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](mailto: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](mailto: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

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.

Chart 18528

LNM: 50/15

**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 Nunnally 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.

Chart 18476

LNM: 23/16

**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.

Chart 18421

LNM: 29/16

**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.

Chart 18448

LNM: 20/16

**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&region=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

**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.

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

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

**COLUMBIA RIVER – BLALOCK ISLANDS TO MCNARY DAM – McNary Dam Navigation Lock outage**

COLUMBIA RIVER – BLALOCK ISLANDS TO MCNARY DAM – McNary navigation lock, located at Columbia River mile 292.0, will be out of service 0800 through 1700 on 22 Aug 16. The outage is necessary to perform an underwater inspection of the downstream miter gate. The lock will be returned to service as soon as the work is completed. For additional information contact USACE Walla Walla District Operations Division at 509-527-7115 or 509-527-7112.

Chart 18539

LNM: 29/16

**COLUMBIA RIVER - VANCOUVER TO BONNEVILLE; BONNEVILLE DAM – Waterways Analysis and Management System survey**

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 31 AUG 16. For additional information please contact BMC Berryhill at (503) 240-9305 or email D13-smb-MSUPortlandFAC@uscg.mil.

Chart 18531

LNM: 21/16

**OREGON – YAQUINA HEAD TO COLUMBIA RIVER – Subsurface oceanographic equipment deployment**

Oregon State University will deploy oceanographic research equipment in the vicinity of Camp Rilea, OR on 30 Jun 16 and will retrieve it at approximately 19 Aug 16. The deployment of the seafloor equipment will be conducted from the vessel M/V Forerunner at approximate position 46-06-28.000N 123-57-58.000W. There will be no equipment on the surface. The M/V Forerunner will monitor VHF-FM Ch. 16. Mariners are requested to keep a safe distance when in the vicinity of the deployment and recovery of equipment. For additional information contact Mr. Joe Haxel at 541-867-0282 or email [joe.haxel@oregonstate.edu](mailto:joe.haxel@oregonstate.edu).

Chart 18520

LNM: 26/16

**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 FI 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](mailto: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 27Jul 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](mailto:grcaptain@egssurvey.com).

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

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 - 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.

LNM: 24/16

**OREGON – WILLAMETTE RIVER – PORTLAND TO WALNUT EDDY – Derelict sheet pile wall removal**

HME Construction, Inc. will perform work to remove a derelict sheet pile wall on the east bank of the Willamette River at approximate river mile 24.8. The worksite is near Dahl Beach, downstream of the confluence with the Clackamas River. Work will be 0700 to 1700, Monday through Friday, 18 Jul 16 through 29 Aug 16. The tug Husky, derrick barge Sea Vulture, material barge 50 and multiple HME work boats will be on scene and will monitor VHF-Fm Ch. 13 and 16 and operate on Ch. 73. For additional information contact Mr. Leland Larsen at 503-519-7091, Mr. Justin Bay at 360-601-2034, or Ms. Sheri Brenner at 360-601-2034.

Chart 18528

LNM: 29/16

**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 AND NORTHERN PUGET SOUND – Subsea oceanographic equipment deployment**

NOAA/National Ocean Service/Center for Operational Oceanographic Products and Services has deployed oceanographic instrumentation in trawl-resistant bottom mounts (TRBM, m-TRBM, ES-2) or subsurface taut-line moorings (SUBS, DWM) within the Strait of Juan de Fuca and Puget Sound, WA, in the positions listed in Enclosure (4) of LNM 22/16. The equipment will remain in place until at least 26 Aug 16. The stations should not have any presence on the surface. The SUBS extend up to 38 meters above the seafloor. This equipment will be used for a current circulation study to improve current predictions, and may help save lives and property. The SUBS and deep water moorings are NOT TRAWL RESISTANT and may cause damage to fishing gear. If brought to the surface, please notify NOAA by calling 1-800-FOR-NOAA (367-6622). For additional information, contact Ms. Crescent Moegling at 206-526-6840, 206-707-5409 or email crescent.moegling@noaa.gov.

Charts: 18440 18460 18465

LNM: 19/16

**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 – 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

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

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 – APPROACHES TO ADMIRALTY INLET DUNGENESS TO OAK BAY - Pacific Northwest National Laboratory Sequim Bay Research Project (Revised from LNM 24/16)**

The Pacific Northwest National Laboratory (PNNL) will conduct a research project in Sequim Bay, Washington, in four separate locations starting in July 2016 and ending in September 2016, as shown in Enclosure (4) of LNM 28/16. Below is a description of each site:

An Acoustic Doppler Current Profiler (ADCP) is to be deployed in approximate position 48-04-44.637N, 123-02-36.747W on the seafloor. This object has an eight inch diameter and is eight inches tall. The ADCP is battery powered. One orange and white surface warning buoy will be placed 10 yards north of the subsurface equipment to mark the location. Deployment is 10 Jul 16 to 01 Sep 16.

A Biosonic Transducer will be deployed in approximate position 48-04-46.092N, 123-02-38.076W on the seafloor. This object is a 58 inch square and 21 inches tall. The Biosonic Transducer is powered by a seafloor cable that will come ashore at the PNNL dock, which is WSW of the transducer at 100 yards. One orange and white surface warning buoy will be placed 10 yards north of the subsurface equipment to mark the location. Deployment is 10 Jul 16 to 01 Sep 16.

Mooring 1 (subsurface) is equipment that will be moored in the water column in approximate position 48-04-46.308N, 123-02-38.220W. Two yellow surface buoys will be placed 10 yards north and south of the subsurface equipment to mark the location. Deployment is 17 Jul 16 to 08 Aug 16.

Mooring 2 (subsurface) is equipment that will be moored in the water column in approximate position 48-04-51.145N, 123-01-40.827W. Two yellow surface buoys will be placed 10 yards east and west of the subsurface equipment to mark the location. Deployment is 17 Jul 16 to 08 Aug 16.

Subsurface equipment will extend approximately 16.5 ft above the bottom, leaving approximately 10-15 feet of water above the submerged float. Mariners are advised not to pass between the two yellow surface buoys marking the subsurface Mooring 1 or Mooring 2. Mariners are also requested to not anchor or drag the bottom within 100 yards of the ADCP or Biosonic seafloor equipment positions.

The research vessel Strait Science may at times be tending to the above listed equipment and can be hailed on VHF-FM Ch 16. For additional information contact PNNL Marine Sciences Laboratory, Ms. Susan Southard at 360-681-3615 (office) or 360-460-1999 (cell) or email sue.southard@pnnl.gov.

Chart 18471

LNM: 25/16

**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

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**SECTION VIII - LIGHT LIST CORRECTIONS**

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

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(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
19020	<i>Padilla Bay Lighted Bell Buoy 4</i>	48-34-44.036N 122-35-46.772W	FIR 4s		4	Red.	33/16

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**ENCLOSURES**

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**Enclosure 1**

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

LNM: 33/16

**Enclosure 2**

OREGON - WASHINGTON - COLUMBIA RIVER - Summary of Dredging Operations

LNM: 33/16

**Enclosure 3**

OREGON - WASHINGTON - COLUMBIA RIVER - Summary of Marine Events

LNM: 33/16

**Enclosure 4**

Navigation and buoyage changes on Lake Washington

LNM: 32/16

**Enclosure 5**

Lake Pend Oreille bridge work

LNM: 33/16

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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
<b>OREGON COAST</b>						
Isthmus Slough	9089	Coos City Highway Bridge	Coos City, OR	Down river center green light temporarily replaced with a non-flashing yellow light	8/15/2016	0718-16
<b>COLUMBIA RIVER</b>						
Cathlamet Channel	10545	Puget Island Bridge	Cathlamet, WA	East red pier light extinguished	6/23/2016	0560-16
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
Oregon Slough	11298	Oregon Slough Railroad Bridge	Portland, OR	Swing span lights showing improper characteristics	7/28/2016	0683-16
Columbia River	13051	Kennewick-Pasco RR Bridge	Pasco, OR	3 white main span lights extinguished	8/1/2016	No BNM
Camas Slough	11462	Camas Slough Bridge	Clark County, WA	Multiple lights extinguished	8/7/2016	No BNM
<b>SNAKE RIVER</b>						
None						
<b>WILLAMETTE RIVER</b>						
Willamette River	15159	Lyon Street Bridge	Albany, OR	Multiple lights extinguished	6/4/2016	0487-16
Willamette River	14959.6	Tillicum Highway Bridge	Portland, OR	West red pier light extinguished	7/19/2016	0618-16
Willamette River	14924	Saint Johns Bridge	Portland, OR	Multiple red margin lights extinguished	7/18/2016	0615-16
Willamette River	15028	Lake Oswego Railroad Bridge	Lake Oswego, OR	Multiple red pier lights showing improper characteristics	7/25/2016	0633-16
Willamette River	15078	I-205 Highway Bridge	Oregon City, OR	Down river, east side red pier light extinguished	7/24/2016	0632-16
<b>WASHINGTON COAST</b>						
None						
<b>PUGET SOUND</b>						
None						
<b>IDAHO</b>						
None						

# BRIDGE LIGHTING DISCREPANCIES AND CORRECTIONS

Enclosure (1)

BRIDGE LIGHTING CORRECTIONS						
Waterway	Light List #	Bridge Name	Location	Status	Date Reported	BNNM
<b>OREGON COAST</b>						
None						
<b>COLUMBIA RIVER</b>						
Columbia River	11933	Hood River Bridge	Hood River, OR	Draw span is operating normal	8/12/2016	No BNM
Columbia River	11393	I-205 HWY Bridge	Gresham, OR	All lights watching properly	8/16/2016	No BNM
Lake Celilo	12333	Biggs-Maryhill HWY Bridge	Biggs, OR; Maryhill, WA	All lights watching properly	8/16/2016	No BNM
Columbia River	13103	Olds Station Bridge (US-97)	East Wenatchee, WA	All lights watching properly	8/17/2016	No BNM
<b>SNAKE RIVER</b>						
None						No BNM
<b>WILLAMETTE RIVER</b>						
Willamette River	14955.1	Fremote Bridge	Portland, OR	All lights watching properly	8/12/2016	No BNM
Willamette River	14959.5	Marquam Bridge	Portland, OR	All lights watching properly	8/15/2016	No BNM
Willamette River	14995	Sellwood Bridge	Portland, OR	All lights watching properly	8/11/2016	No BNM
<b>WASHINGTON COAST</b>						
None						
<b>PUGET SOUND</b>						
None						
<b>IDAHO</b>						
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
10-Aug-16	24-Aug-16	24 Hrs, 7 Days	Coos Bay Entrance (RM 0-30 to 1+00)	M/V Essayons	None	VHF-FM 13 & 16	Site F-OS	32/16
18-Jul-16	11-Oct-16	24 Hrs, Mon-Sat	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 Site F	29/16
22-Aug-16	24-Sep-16	24 Hrs, Mon-Sat	Yaquina River; Depot Slough (RM 14, Slough Mile 00+00 to 00+20)	M/V Sea Hawk	M/V Island Wind	VHF-FM 13, 16 & 66	ODMDS South and North	32/16
25-Jul-16	26-Sep-16	24 Hrs, 7 Days	Columbia River: Columbia River Entrance (RM -2-10 to +2+30) and Foul WX Backup at Flavel Bar (RM 11+00 to 12+30)	M/V Bayport	M/V John M	VHF-FM 13 & 16	N. Jetty Site, DWS, SWS and RM 7.3	33/16
19-Aug-16	31-Aug-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	32/16
16-Aug-16	20-Aug-16	24 Hrs, 7 Days	Columbia River: St. Helens Bar (RM 84+35 to 86+35)	M/V Yaquina	None	VHF-FM 13 & 16	RM 84 - 85	32/16
7-Sep-16	28-Sep-16	Daylight Hours, Mon-Sat	Willamette River; Willamette Park Boat Ramp, RM 16	M/V Sea Horse	M/V Husky	VHF-FM 13, 16 & 69	Columbia RM 89 to 90	33/16
10-Aug-16	15-Sep-16	24 Hrs, 7 Days	Baker Bay West Channel, RM 00+19 to 01+47	M/V Heidi Renee	M/V Norton Bay, M/V Sand Island	VHF-FM 13 & 16	O-3.2-IW	30/16

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

9-Aug-16	1830-sunset	OCSA Sailboat Races	Columbia River between I-5 and I-205 Bridges
10-Aug-16	1100-1700	Columbia Gorge Racing Association	Columbia River between Cascade Locks, OR and Home Valley, WA
11-Aug-16	1100-1700	Columbia Gorge Racing Association	Columbia River between Cascade Locks, OR and Home Valley, WA
11-Aug-16	1830-sunset	OCSA Sailboat Races	Columbia River between I-5 and I-205 Bridges
12-Aug-16	1100-1700	Columbia Gorge Racing Association	Columbia River between Cascade Locks, OR and Home Valley, WA
13-Aug-16	1100-1300	Swim the Snake-Safety Zone	Snake River, Lyons Ferry State Park, WA
13-Aug-16	1100-1700	Columbia Gorge Racing Association	Columbia River between Cascade Locks, OR and Home Valley, WA
13-Aug-16	1730-1900	Astoria Regatta High Water Boat Parade	Columbia River, Astoria, OR
13-Aug-16	2200-2230	Astoria Regatta Fireworks-Safety Zone	East Basin Moorage, Columbia River, Astoria, OR
14-Aug-16	1100-1700	Columbia Gorge Racing Association	Columbia River between Cascade Locks, OR and Home Valley, WA
16-Aug-16	1830-sunset	OCSA Sailboat Races	Columbia River between I-5 and I-205 Bridges
18-Aug-16	1830-sunset	OCSA Sailboat Races	Columbia River between I-5 and I-205 Bridges
20-Aug-16	1600-sunset	OCSA Sailboat Races	Columbia River between I-5 and I-205 Bridges
23-Aug-16	1830-sunset	OCSA Sailboat Races	Columbia River between I-5 and I-205 Bridges
25-Aug-16	1830-sunset	OCSA Sailboat Races	Columbia River between I-5 and I-205 Bridges
27-Aug-16	1115-1800	OCSA Sailboat Races	Columbia River between Kelley Point and St. Helens
28-Aug-16	1115-1800	OCSA Sailboat Races	Columbia River between Kelley Point and St. Helens
1-Sep-16	2130-2200	Oregon Symphony Concert and Fireworks	Waterfront Park on Willamette River
5-Sep-16	0600-1200	Roy Webster Cross-Channel Swim	Columbia River; Hood River, OR
10-Sep-16	1200-2000	OCSA Sailboat Races	Between Kelly Point and St. Helens, OR
10-Sep-16	0800-1800	Portland Dragon Boat Races	Willamette River between Marquam and Hawthorne bridges
10-Sep-16	0900-1015	Columbia Crossing Swim	Columbia River; Tri-Cities, WA
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

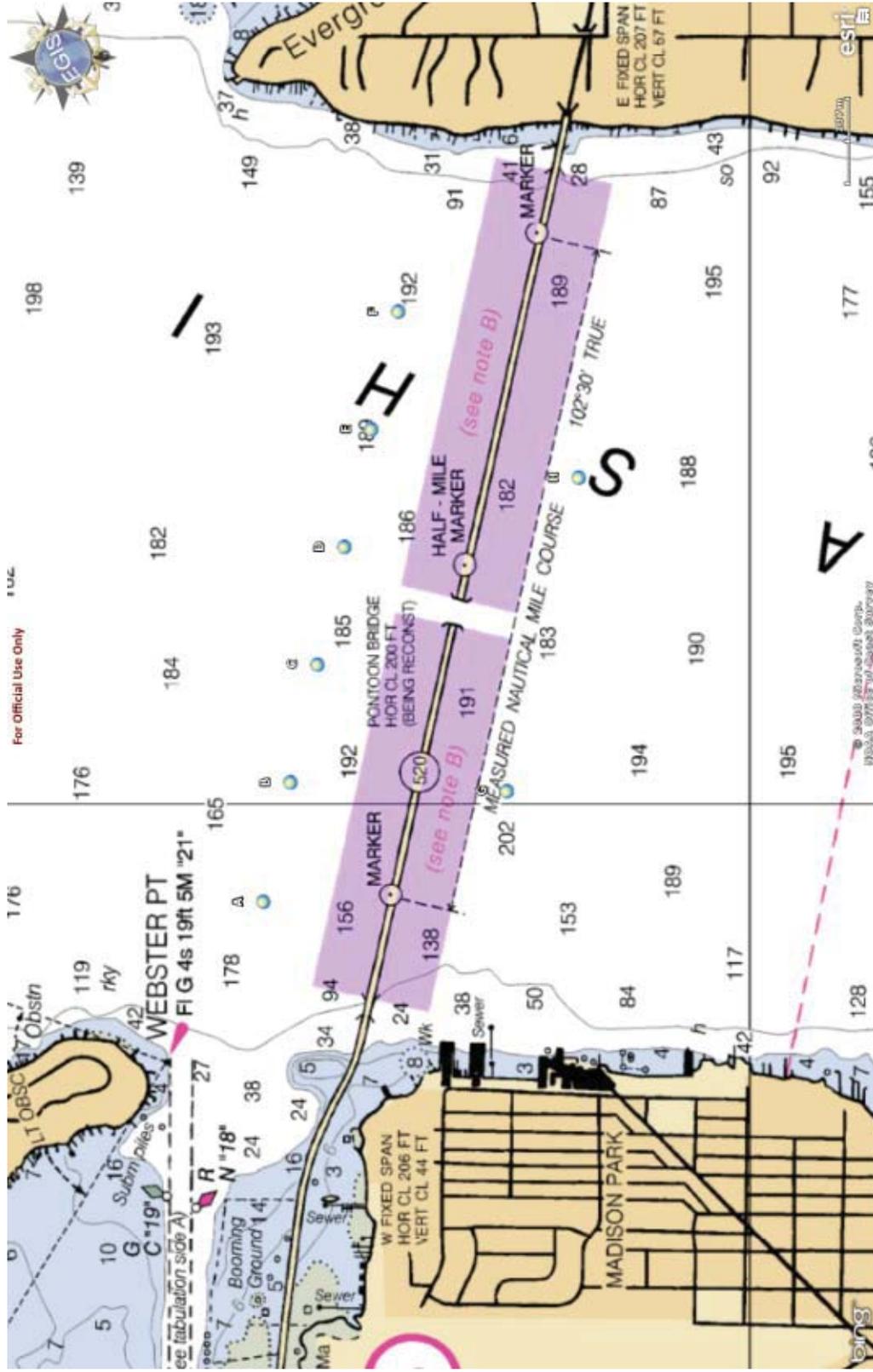
EVENT DATE	TIME	EVENT NAME	EVENT LOCATION
9-Aug-16	1800-2200	Duck Dodge Seattle	Duck Dodge
10-Aug-16	1900-2100	Windseeker	Corinthian Yacht Club of Tacoma
11-Aug-16	1700-2000	Sound Evening Series- Thursday Night	Corinthian Yacht Club of Seattle
11-Aug-16	1830-2030	Downtown Sailing Series	Elliott Bay Marina
13-Aug-16	2200-2300	Medina Days	City of Medina
13-Aug-16	0800-1400	Bellingham Classic	Bellingham Bay Outrigger Paddlers
13-Aug-16	0900-1900	Oak Harbor Hydroplane Race	Oak Harbor Rotary Club
14-Aug-16	0900-1900	Oak Harbor Hydroplane Race	Oak Harbor Rotary Club

# MARINE EVENTS

Enclosure (3)

16-Aug-16	1800-2200	Duck Dodge Seattle	Duck Dodge
17-Aug-16	1900-2100	Windseeker	Corinthian Yacht Club of Tacoma
17-Aug-16	0630-1030	Bloodworks Northwest Swim for Life	Bloodworks Northwest
18-Aug-16	1700-2000	Sound Evening Series- Thursday Night	Corinthian Yacht Club of Seattle
19-Aug-16	1830-2400	Northern Century	Anacortes Yacht Club
20-Aug-16	1100-2000	Northwest Jr. Olympics Sailing Regatta	Seattle Yacht Club
20-Aug-16	1100-2000	Northwest Jr. Olympics Sailing Regatta	Seattle Yacht Club
20-Aug-16	0000-2400	Northern Century	Anacortes Yacht Club
20-Aug-16	1100-1400	Sound Rowers 'round Shaw Race	Sound Rowers
20-Aug-16	1000-2105	Vashon Challenge	CYC of Tacoma
21-Aug-16	1100-2000	Northwest Jr. Olympics Sailing Regatta	Seattle Yacht Club
21-Aug-16	0000-1600	Northern Century	Anacortes Yacht Club
21-Aug-16	0500-1000	Ironman Coeur d'Alene	World Triathlon Corporation
22-Aug-16	0800-1400	Swim to Live	Swim to Live
23-Aug-16	1800-2200	Duck Dodge Seattle	Duck Dodge
24-Aug-16	1900-2100	Windseeker	Corinthian Yacht Club of Tacoma
27-Aug-16	0930-1300	Sound Rowers The Great Cross Sound Race	Sound Rowers
30-Aug-16	1800-2200	Duck Dodge Seattle	Duck Dodge

SR520 construction mooring buoys as of 06Jul16





# SR 520 Bridge Replacement and HOV Program

I-5 to Medina: Bridge Replacement and HOV Project



## Navigation changes on Lake Washington at SR 520

August 2016

**UPDATE:** East navigation channel open at full 70' height; west navigation channel closed through August 31

**A** West navigation channel



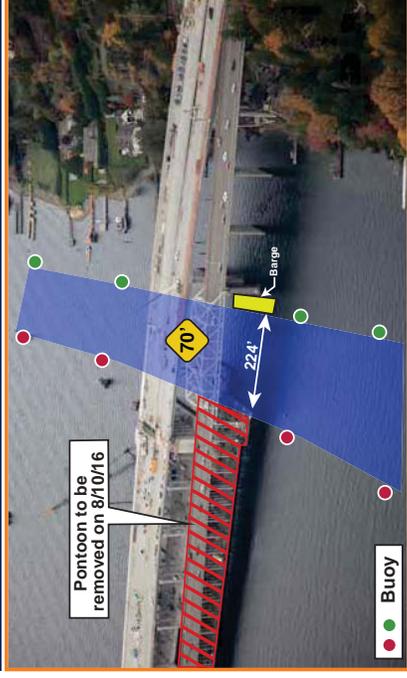
The west navigation channel is closed. It will reopen at its full height of 44 feet.

**B** Drawspan blocked

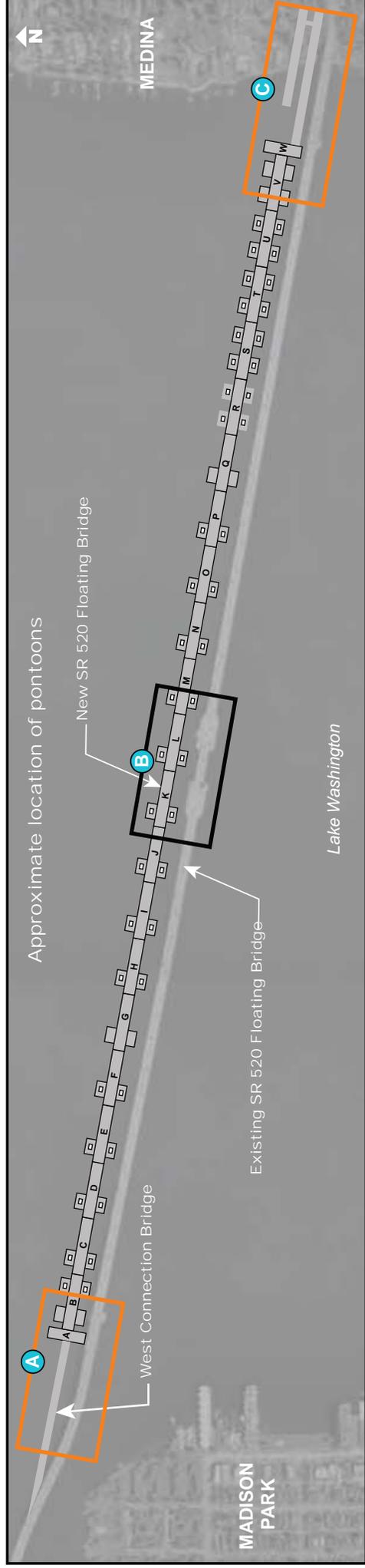


Drawspan blocked as of Feb. 17, 2015.

**C** East navigation channel



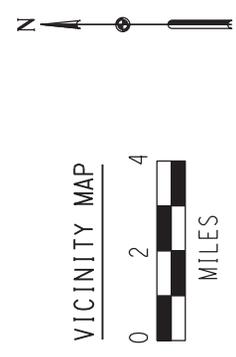
The east navigation channel is open at its full height of 70 feet. Please note the channel will increase to 224 feet wide on 8/11/16.



Enclosure (5)



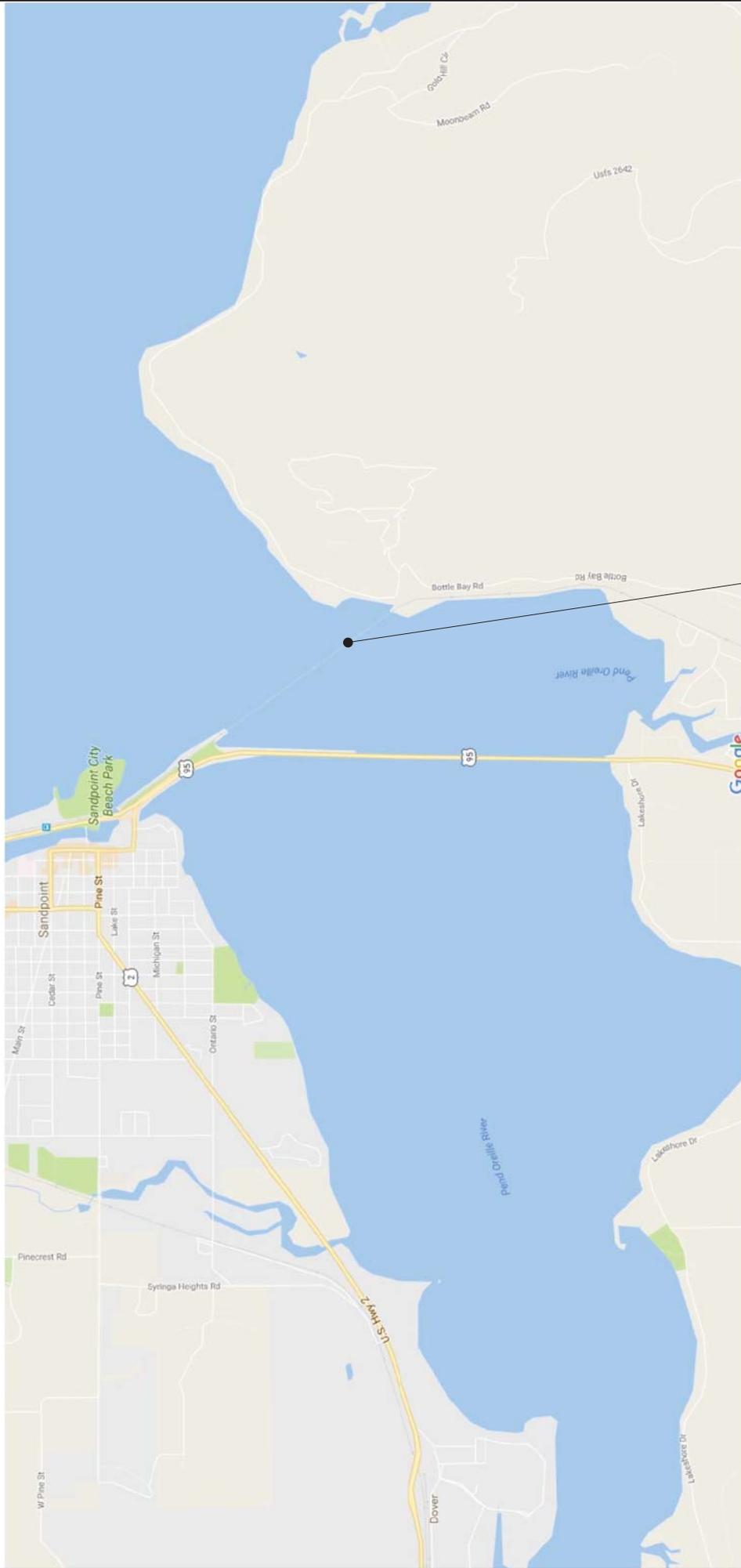
PROJECT LOCATION



**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



PROJECT LOCATION



LOCATION MAP



REFERENCE:  
 APPLICANT: BNSF RAILWAY  
 ADJACENT PROPERTY OWNERS:

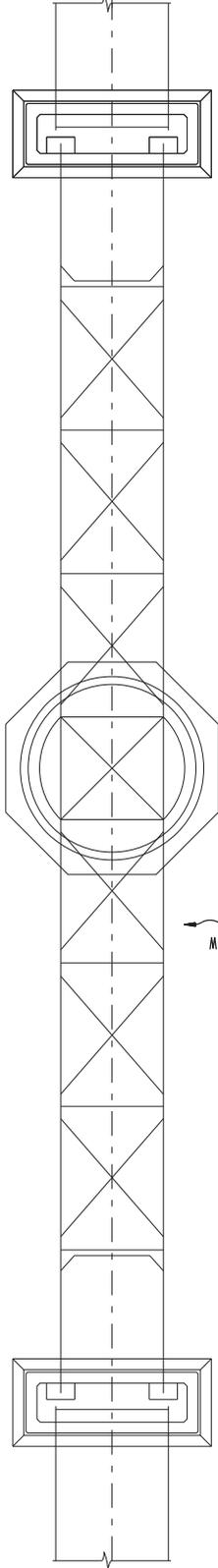
LOCATION: BNSF 3.9  
 LAT/LONG: 48.257049 N  
 -116.527838 W  
 DATE: 08/12/2016  
 PAGE 2 OF 4

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.

BRIDGE & TRACK

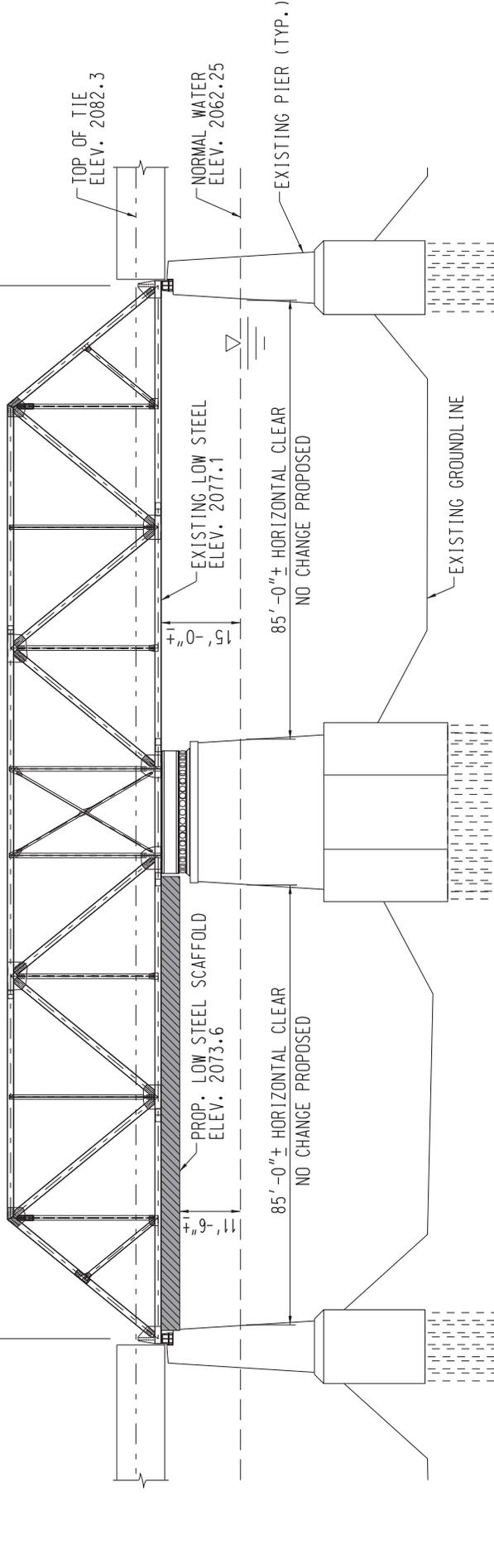


PLAN - PHASE 1

100'-0" (T.P.G.)

200'-0" (THRU TUSS SPAN)

100'-0" (T.P.G.)



(67)

(68)

(69)



ELEVATION - PHASE 1

REFERENCE:  
 APPLICANT: BNSF RAILWAY  
 ADJACENT PROPERTY OWNERS:

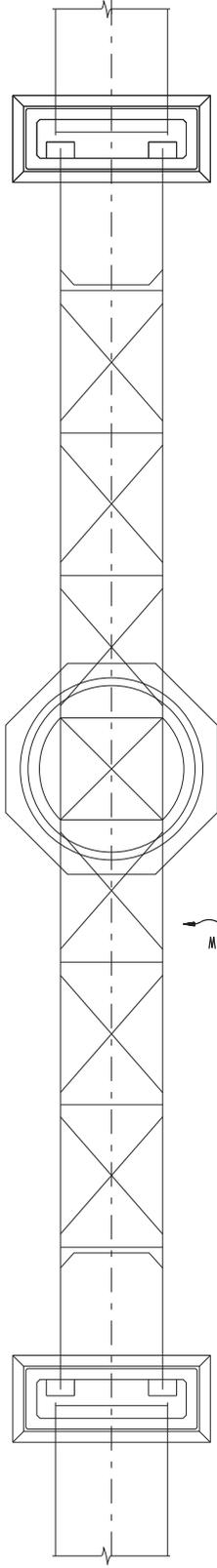
LOCATION: BNSF 3.9  
 LAT/LONG: 48.257049 N  
 -116.527838 W  
 DATE: 08/12/2016  
 PAGE 3 OF 4

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.

BRIDGE & TRACK

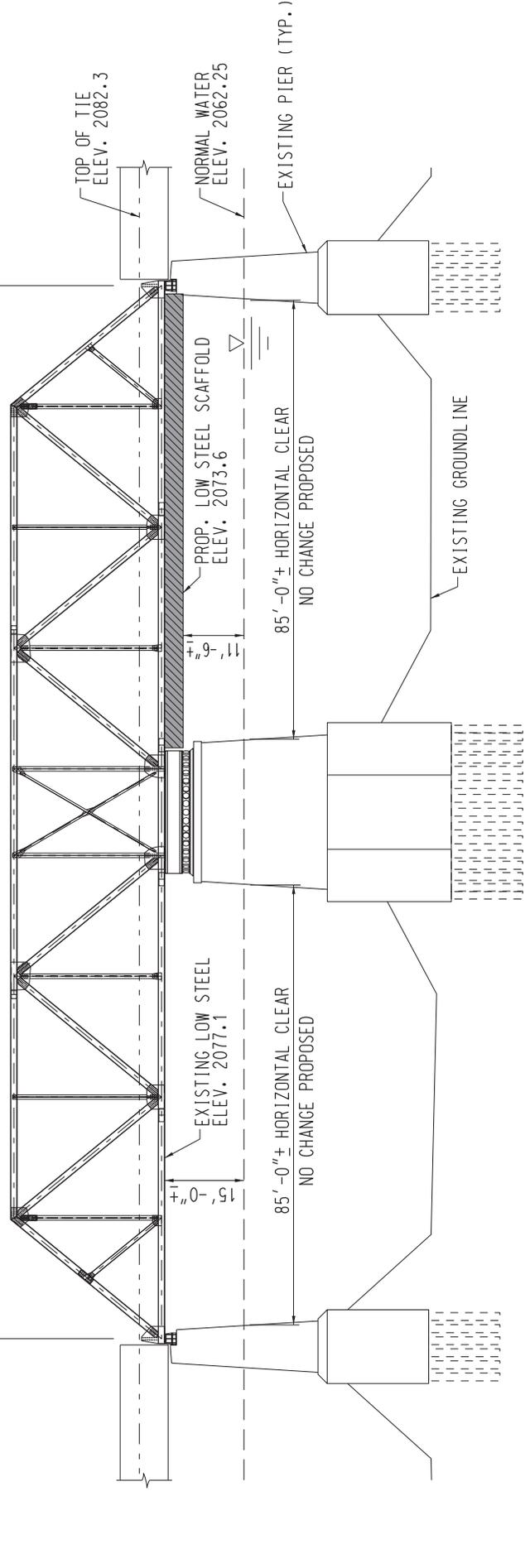


PLAN - PHASE 2

100'-0" (T.P.G.)

200'-0" (THRU TUSS SPAN)

100'-0" (T.P.G.)



(69)

(68)

(67)

0 15' 30'

ELEVATION - PHASE 2

REFERENCE: BNSF RAILWAY  
 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