

U.S. Department of Homeland Security

United States Coast Guard

LOCAL NOTICE TO MARINERS

District: 13 Week: 27/22

> ISSUED BY: COMMANDER, THIRTEENTH COAST GUARD DISTRICT (dpw) 915 Second Avenue, 35th Floor, Rm 3510, Seattle, Washington 98174-1067 Telephone: (206) 220-7280 Email: D13-SMB-D13-LNM@uscq.mil

https://www.pacificarea.uscg.mil/Our-Organization/District-13/District-Staff/-dpw/ https://www.navcen.uscg.gov/local-notices-to-mariners?district=13+0&subdistrict=n

For all Notice to Mariner submissions:

Call (206) 220-7280 or email D13-SMB-D13-LNM@uscq.mil at least two weeks prior to the start of your event or work.

COMDTPUB P16502.6, Light List Volume VI, Pacific Coast and Pacific Islands, 2022 Edition, is available at https://www.navcen.uscg.gov/sites/default/files/pdf/lightLists/LightList_V6_2022.pdf Coast Pilot Volume 10, Oregon, Washington, Hawaii and Pacific Islands, 2022 (3rd) Edition, is available at https://www.nauticalcharts.noaa.gov/publications/coast-pilot/files/cp10/CPB10_WEB.pdf

Coast Pilots, along with corrections, are available at: www.nauticalcharts.noaa.gov/publications/coast-pilot/index.html. Print on Demand (POD) copies are available for purchase at: www.nauticalcharts.noaa.gov/publications/print-agents.html#coast-pilot.

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). LNMs, BNMs and other navigation notices can be obtained via e-mail subscription through the USCG Navigation Center website: https://www.navcen.uscq.gov/subscribe-email-rss-feeds

In addition, the NIS investigates all reports of degradation or loss of GPS service and discrepancies to Aids to Navigation. Mariners are encouraged to report all degradation of radio navigation services, or Aids to Navigation discrepancies to the NIS via phone: (703) 313-5900 or online at: https://www.navcen.uscq.gov/report-a-problem

BROADCAST NOTICE TO MARINERS

Urgent marine navigational and weather information is broadcast over VHF channel 22A (157.1 MHZ). Broadcasts are initially announced over the distress, safety and calling channel 16 before they are made on channel 22A. All ships in U.S. waters over 20 meters in length are required to monitor VHF channel 16, and must have radios capable of tuning to the VHF simplex channel 22A. BNM are now available online as well. To view or download District 13 BNMs visit https://www.navcen.uscg.gov/broadcast-notice-to-mariners-search?district=13

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

Originating Unit CGĎ THIRŤEEN

Beginning BNM D13-0476-22

Ending BNM D13-0481-22

ABBREVIATIONS

A through H

ADRIFT - Buoy Adrift

AICW - Atlantic Intracoastal Waterway

Al - 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

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

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

DEFAC - Defaced

DEST - Destroyed **DISCON** - Discontinued DMGD/DAMGD - Damaged

ec - eclipse

EST - Established Aid

ev - everv **EVAL** - Evaluation EXT - Extinguished

F - Fixed fl - flash FI - Flashing G - Green

GIWW - Gulf Intracoastal Waterway

HAZ - Hazard to Navigation

HBR - Harbor

HOR - Horizontal Clearance

HT - Height

LWB - Lighted Whistle Buov LWP - Left Watching Properly

MHz - Megahertz MISS/MSNG - Missing Mo - Morse Code

MRASS - Marine Radio Activated Sound Signal

MSLD - Misleading N/C - Not Charted

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

SHL - Shoaling si - silent SIG - Signal SND - Sound

SPM - Single Point Mooring Buoy

SS - Sound Signal STA - Station STRUCT - Structure 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:

AtoN - Aids to Navigation COTP - Captain of the Port CPA - Closest Point of Approach LLNR - Light List Number

NAVCEN - U.S. Coast Guard Navigation Center NM - Nautical Miles

ODOT – Oregon Department of Transportation

RM - River Mile Marker

S-AIS - Synthetic AIS V-AIS - Virtual AIS VTS - Vessel Traffic Service

WSDOT- Washington State Department of Transportation

SECTION I - SPECIAL NOTICES

This section contains information of special concern to the Mariner.

COLUMBIA RIVER - JOHN DAY DAM TO BLALOCK - Lock closure

The John Day navigation lock, at Columbia River mile 215.6, will be closed on 12 Jul 2022 from 0800 – 1400. This outage is for an inspection of the lock's downstream gate in preparation for future maintenance work. For questions or additional information, contact Scott Green at (541) 739-1051 or Scott.m.Green@usace.army.mil

LNM: 27/22 Chart 18535

WASHINGTON - PUGET SOUND - SEATTLE TO BREMERTON - DUWAMISH WATERWAY - Spokane Street Bridge deviation

The Coast Guard has approved a temporary deviation for the Spokane Street Bridge (LLNR 16870.1) across the Duwamish Waterway, mile 0.3, in Seattle, WA, from 24 Jun – 30 Sep 2022. This deviation will support multiple events to make repairs and upgrades for the subject bridge. The work will begin with assembling scaffolding, and followed by installing scaffolding with the use of a barge and UBIT truck. A 60 ft wide X 200 ft long crane barge will be used during the first two weeks of June lifting scaffolding up to the bridge and during the last two weeks of August to remove the scaffolding. A second service barge will be on site but outside of the channel. Two service tugs will be on site as well. The tugs and barges can be hailed using VHF channel 13. 82 of the 250 feet of horizontal clearance will be reduced while installing and removing scaffolding on the east and west side. After the platform has been installed, a total of 24 feet (11 ft west side and 13 ft east side) of horizontal clearance will be reduced. Scaffolding will be lighted with amber flashing lights. The vertical clearance will be reduced from 44 feet to 27 feet on the sides of the Spokane Street Bridge. The center vertical clearance will not be reduced during this deviation period. Vertical and horizontal clearances are referenced to mean high-water elevation. The horizontal and vertical clearances will only be impacted while the bridge is in the closed-tonavigation position. Mariners transiting the construction area are advised to not put out any wake, and fall hazards will be present. Vessels able to pass through the subject bridge in the closed-to-navigation position may do so at any time. No alternate route is available on the Duwamish Waterway.

The following are the deviation dates and times:

2300 on 24 Jun 22 – 0700 on 25 Jun 22 (cannot open for emergency response);

2300 on 08 Jul 22 - 0700 on 09 Jul 22 (cannot open for emergency response);

2300 on 10 Jul 22 - 0700 on 23 Sep 22 (two hour minimum notice for bridge opening, 20 minute notice for emergency response);

2300 on 23 Sep 22 – 0700 on 24 Sep 22 (cannot open for emergency response);

2300 on 29 Sep 22 – 0700 on 30 Sep 22 (cannot open for emergency response);

For more information on the bridge repairs, contact Adam Dour, Kraemer North America, at (206) 620-0630 or adour@KraemerNA.com. The Captain of the Port will implement a Safety Zone for the Duwamish waterway for the nighttime closure times listed above, and vessels will not be able to enter the Safety Zone without permission. For more information on the Safety Zone or to request permission, contact Coast Guard Sector Puget Sound Joint Harbor Operations Center (JHOC) via telephone at (206) 217-6002.

LNM: 27/22 Chart 18450

OREGON - WASHINGTON - IDAHO - US Coast Guard Navigation Center website transition

The Coast Guard Navigation Center (NAVCEN) has completed their website transition to a new, enhanced version. As part of this transition, URLs have been updated across the site including URLs linked to PDFs. Legacy site URLs will no longer function, however, they automatically direct users to the new NAVCEN home page, allowing users to further navigate to their preferred page. Users are encouraged to update any shortcuts they use to the new URLs. Below are a few of the new URLs listed for your convenience. As a reminder, these are top level URLs and they may not include all the additional links or District-specific shortcuts that you use:

Broadcast Notices to Mariners (BNMs)

Updated URL: https://www.navcen.uscg.gov/broadcast-notice-to-mariners

Local Notices to Mariners (LNMs)

Updated URL: https://www.navcen.uscg.gov/local-notices-to-mariners-by-cg-district

Light Lists Annual Publication

Updated URL: https://www.navcen.uscg.gov/light-list-annual-publication

Light List - Weekly

Updated URL: https://www.navcen.uscg.gov/weekly-light-lists

Light List - Corrections

Updated URL: https://www.navcen.uscg.gov/light-list-summary-of-corrections

Questions or concerns may be directed to the NAVCEN using this email address: NAVCENWebTEAM@uscg.mil.

LNM: 26/22

OREGON - WASHINGTON - SAN FRANCISCO TO CAPE FLATTERY - NOAA and Saildrone joint ocean survey operations

Saildrone Inc. is conducting oceanographic and fisheries acoustic surveys in collaboration with NOAA on the west coast of the United States from 01 Jul through 15 Oct 2022. The survey will be conducted by two (2) Uncrewed Surface Vehicles (USVs), called "saildrones", each 23 ft in length, 16 ft tall, orange in color with a white all-round light on the mast and marked "SAILDRONE". The two Saildrones will be deployed from Newport, OR on or about 01 Jul. Both vehicles are uncrewed, wind and solar powered and will have limited maneuverability during survey operations. Mariners are requested to transit areas with caution and to remain greater than 500 meters away from the research equipment. Questions regarding saildrone operations should be directed to Saildrone Mission Control, missioncontrol@saildrone.com or (510) 722-6070. Enclosure (7) of this Local Notice to Mariners provides a photo and a description of the Saildrone.

Chart 18007 LNM: 26/22

WASHINGTON - LAKE WASHINGTON SHIP CANAL - UNION BAY REACH - Bridge deviation

The Coast Guard has approved a temporary deviation from the normal operating schedule that governs the Montlake Street Bridge (LLNR 18240) across 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 2022, 1700 to 1930 and 2200 to 0100;
- 10 Sep 2022, 1030 to 1300 and 1600 to 1800;
- 17 Sep 2022, 1400 to 1630 and 1930 to 2200;
- 24 Sep 2022, TBA at a later date;
- 15 Oct 2022, TBA at a later date;
- 04 Nov 2022, 1700 to 1930 and 2230 to 0100;
- 19 Nov 2022, TBA at a later date.

The deviation is necessary to accommodate vehicular traffic attending football games at Husky Stadium at the University of Washington in Seattle, Washington. This deviation will allow the Montlake Bridge to remain in the closed-to-navigation position before and after each game. 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. 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. The Coast Guard will publish any updates or changes to this operating schedule in future LNM publications, once game times are announced. For more information on these events contact Colleen Kelly at kellyc@wsdot.wa.gov.

Chart 18447 LNM: 26/22

IDAHO - CLEARWATER RIVER - Geotechnical survey operations

The Idaho Transportation Department has hired Horrocks Engineers to conduct geotechnical survey operations in the vicinity of the US-95 Spalding Bridge across the Clearwater River (RM 10.5) and the US-12 Arrow Bridge (RM 15.1) near Spalding, Idaho. The operations include underwater drilling off a barge located within 100 feet of the bridge. Operations will run seven days a week, from 0700-1700, starting on 01 Jul to 31 Oct 2022. The drilling is performed on a 40'x20' non powered barge with a 20' Jet boat supporting. The barge will be anchored on location by anchors off all four corners. There will be an 18" orange buoy ball attached to each anchor line designating where the lines are below the surface. The barge will show Restricted in Ability to Manuever dayshapes (Ball/ Diamond/Ball) and lights (Red/White/Red), in addition to white lights on all corners. The on-site crew can be reached by cell phone at (509) 844-1952. Mariners are requested to keep a minimum distance of 100' from the barge and tender boat. For more information, contact Horrocks Engineering, Mike McConnell, (208) 577-1642.

LNM: 26/22

OREGON - WASHINGTON - U.S. Coast Pilot 10, 3rd Edition release

U.S. Coast Pilot 10, Pacific Coast: Oregon, Washington, Hawaii and Pacific Islands, 3rd Edition, 2022, has been issued and is ready for free download and weekly updates at www.nauticalcharts.noaa.gov/publications/coast-pilot/index.html. The 2022 Edition cancels the preceding 2021 Edition, and incorporates all previous corrections. Only Print-on-Demand (POD) bound copies are available for purchase; visit www.nauticalcharts.noaa.gov/publications/print-agents.html#coast-pilot.

LNM: 25/22

OREGON – PACIFIC OCEAN TO HARRINGTON POINT – Old Youngs Bay Highway Bridge and Lewis & Clark River Highway Bridge Special Notice

Bridge touch-up painting will occur from 11 Jul 22 to 30 Sep 22 on the lift/bascule spans of the Old Youngs Bay Bridge (LLNR 14682) Mile 2.4 and Lewis & Clark River Bridge (LLNR 14706) Mile 1.0. The work will take place from man-lifts staged on a barge that will be positioned under the lift

spans. Working hours are Monday through Friday 0700 to 1700 PM. The barge will be positioned under the lifts spans 24 hours a day, however if the barge is partially obstructing navigation it can be moved with a 1 hour notice. Mariners are advised to use caution while transiting the work area. The barge will be marked with a white light. The bridges operating schedule will not be effected by this work and will continue to operate in accordance with CFR 117.899 and CFR 117.899c. Sketches detailing the barge placements are shown as enclosure (6) of this LNM. For additional information contact Jim Gries at (503) 580-0569.

Chart 18521 LNM: 25/22

COLUMBIA RIVER - BONNEVILLE TO THE DALLES - LITTLE WHITE SALMON RIVER - BNSF Railroad Bridge pile removal

The Burlington Northern Santa Fe Railroad Company (BNSF) Bridge number 66.4 crosses the Little White Salmon River at the confluence of Drano Lake and the Columbia River, at river mile 0.0 of Drano Lake / Little White Salmon River, in Skamania County, WA; at 45-42-40.5N 121-38-54.7W. Construction of a new bridge at this location was completed in 2021. Work to remove four old in-water piles from the former bridge at this location is still in-progress. These piles are within the approach to the navigation channel of the new bridge from the Columbia River side, and are submerged at the following depths below ordinary high water: 4.2′, 15.9′, 16.3′ and 6.0′. To warn mariners, two temporary buoys are now in place at the approximate location of the two underwater piles that are closest to the water surface (4.2′ and 6.0′). Mariners should exercise caution when navigating in this area. Work to remove the remaining sections of these old piles is planned to be completed between November 2022 and February 2023. A diagram showing the location of the two temporary buoys and a photo showing a typical buoy is provided in Enclosure (4) of this LNM. Questions or comments regarding this notice may be sent via email to: D13-SMB-D13-BRIDGES@uscg.mil.

LNM: 25/22

COLUMBIA RIVER - SNAKE RIVER - Caution to Commercial River Users of high winds and river flows

The USACE Walla Walla District has issued an advisory to Commercial river users to exercise caution when approaching and leaving the Walla Walla District's navigation locks on the Snake and Columbia Rivers, due to the effects of wind and currents caused by high river flows. As conditions and risks dictate, users should consider cutting tows to increase control over barges and reduce risk of impact to navigation structures. The Hard Rock dolphins located upstream of the Ice Harbor lock can support this action when transiting Ice Harbor. Tow Captains should contact locks at least one-half hour before arrival if an adjustment to spill patterns are desired. This will allow time for dam operators to adjust dam gates, or to allow for commercial barge traffic to adjust plans and cut their tows, if spill cannot be adjusted fully to meet the request. For additional information regarding McNary, Ice Harbor, Lower Monumental, Little Goose and Lower Granite locks, contact Walla Walla District, Operations Division at (509) 527-7364.

Charts: 18539 18541 18545 18546 18547 LNM: 25/22

WASHINGTON - APPROACHES TO ADMIRALTY INLET - Sequim Bay scientific sensor deployment (Revised from LNM 11/22)

The Pacific Northwest National Laboratory (PNNL) will be deploying and retrieving submerged scientific equipment in the entrance channel to Sequim Bay, Washington for 4 weeks between 21 Jun and 30 Jul 2022. The submerged scientific equipment will be located at approximate position 48-04-53 N, 123-02-30 W. There will be no surface marker buoys on the equipment, but the equipment extends approximately 10 feet above the seafloor, leaving at least 9 feet of water over the equipment at all times. The research vessels DESDEMONA or STRAIT SCIENCE may be on scene during the deployment and retrieval. The vessels may be hailed on VHF-FM channel 16. For additional information, contact PNNL Marine Sciences Laboratory, John Vavrinec, at (360) 681-3665 or email john.vavrinec@pnnl.gov.

Chart 18471 LNM: 25/22

WASHINGTON - PUGET SOUND - SEATTLE TO BREMERTON - NAVAL BASE KITSAP - Sand placement over Moorage G

American Construction will be conducting sand placement operations over Moorage G at US Naval Base Kitsap, Bremerton, WA centered in approximate position 47-33-08.2N 122-39-24.7W, commencing 16 Jul 22 through 30 Sep 22. The hours of these operations will be up to 12 hours per day, Monday through Friday. The dredge DB Mukilteo will be on site and may be contacted on VHF-FM channel 16. For additional information contact Aaron McMahill at aaronm@americanconstrco.com or cell phone (253) 350-1670.

Charts: 18449 18452 LNM: 25/22

WASHINGTON - PUGET SOUND - EVERETT HARBOR - SNOHOMISH RIVER - Ebey Slough Bridge notice

The Coast Guard intends to approve a temporary deviation from the operating schedule that governs the BNSF RR Bridge 38.3 (LLNR 18594.6) across Ebey Slough (Snohomish River), mile 1.5 at Marysville, Washington. This closure period will be from 0700 on 01 Aug 22 through 0700 on 01 Sep 22. Scaffolding will be install for containment on half of the span, and will reduce the vertical clearance up to 5 feet. Half of the span's vertical clearance will available for mariners to navigation under the bridge. The scaffolding will be lighted with amber flashing lights. Mariners be aware that Bridge 38.3 provides 5 feet of vertical clearance in the closed-to-navigation position above high water, and at the lowest tides, up to 16 feet of vertical clearance may be available. When containment is installed on half of the span, mariners will not be able to navigate under the bridge at high tide through high slack. At low tide the vertical clearance will be reduced to about 11 feet with containment. Vessels able to pass through the bridge in the closed-to-navigation position may do so at any time. Bridge 38.3 operates in accordance with 33 CFR 117.1059 (g) and states in part "During freshets, a draw tender shall be in constant attendance, and the draw shall open on signal when so ordered by the District Commander." This deviation will also negate a draw tender to be in attendance during freshets. Due to a high amount of Spring rainfall, mariners be aware of river debris collecting at the bridge before BNSF can remove the debris due the bridge not able to open. If any mariner cannot support this deviation, submit objections to d13-smb-d13-bridges@uscg.mil by 13 Jul 22.

Chart 18444 LNM: 25/22

COLUMBIA RIVER - LAKE CELILO - Bridge inspection

WSDOT will be performing an inspection of the Biggs Maryhill Highway Bridge (LLNR 12333) across the Columbia River at river mile 209.2 between the hours of 0700 to 1700 daily on 11 - 15 Jul. The bridge will be inspected with two under-bridge inspection trucks (UBITs) from top of bridge

deck on highway SR-97. There is no fixed impact to the navigational clearance from this operation. The UBIT will reduce the clearance about 10 ft. while buckets are under the bridge, however the UBIT will promptly give way to tall marine vessels. UBITs have a flashing amber light mounted to the bottom of each bucket. For more information, contact Tad Kendrick, at (360) 528-9215 or (360) 259-7368 or email at kendrit@wsdot.wa.gov.

Chart 18533 LNM: 24/22

WASHINGTON - PUGET SOUND - HOOD CANAL - Research sensor deployments

NOAA's Northwest Fisheries Science Center will be deploying four acoustic receivers in the Hood Canal between South Point on the west and Lofall on the east, approximately 3 NM south of the Hood Canal Bridge on 27 Jul 2022 between the hours of 1000 and 1600. Receivers will listen for and record detections of salmonids implanted with acoustic transmitters. Deployment locations are as follows:

- (1) 47-49-43.464 N, 122-41-05.100 W
- (2) 47-49-28.848 N, 122-40-48.036 W
- (3) 47-49-10.992 N, 122-40-31.008 W
- (4) 47-48-52.344 N, 122-40-14.772 W

Moorings will remain in place through November. Mariners are requested to avoid disturbing the seafloor in these areas so as not to dislodge or damage the equipment. Deployment of the sensors will occur from the R/V Noctiluca, which will monitor VHF-FM channels 16 and 68. Mariners can contact the Chief Scientist at (206) 949-7723.

Charts: 18441 18458 LNM: 24/22

WASHINGTON - LAKE WASHINGTON SHIP CANAL - UNION BAY REACH - Bridge construction update (Revised from LNM

American Bridge Company will be conducting hoisting operations for new bridge construction at the West Approach Bridge South of the SR520 Evergreen Point Highway Bridge (LLRN 18340) from 25 Jul – 16 Sep 2022. During this time period, the active work zone will include both corridors of the west navigation channel between 0400 – 1300 daily, closing both corridors of the west navigation channel to all vessel traffic. After 1300, corridor B will be open for vessels to transit, while corridor A will have periodic closures based upon construction activities. During Seafair week, Thursday 04 Aug - Sunday 07 Aug, construction will pause and both corridors of the west navigation channel will remain open. Mariners are advised to transit with caution when navigating near the project area and that no boaters are permitted within the active work zone at any time. In addition, reduced speed and/or minimal wake is requested when transiting the navigation channels. The east navigation channel of the SR520 Highway Bridge will remain open to vessels at all times during this construction phase. A graphic of the operating area and the channel locations is included as Enclosure (5) of this LNM. For more information, contact Eoin Duffy at (914) 263-5875 or email at eduffy@americanbridge.net.

LNM: 24/22 Chart 18447

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
733	NOAA Environmental Lighted Buoy 46041	MISSING	18500	0174-22	08/22	
756	Strait of Juan De Fuca Traffic Separation Lane Lighted Buoy JA	MISSING	18485	0828-20	47/20	
765.5	NOAA Environmental Lighted Buoy 46005	LT EXT	18007	0197-20	08/20	
10215	Miller Sands Dike Light 5	DAYMK IMCH	18521	0022-22	02/22	
10475	Westport Dike Light 58	LT EXT/STRUCT DMGD	18523	0190-22	09/22	
10715	Cleaveland Dike Light 3	LT EXT	18524	0392-22	22/22	
10965	Martin Island Bluff Lighted Buoy 60	LT EXT	18524	0478-22	27/22	
11165	Willow Dike Light 26	LT EXT	18525	0436-22	24/22	
11308	Airport Bar Range Rear Light	LT EXT	18531	0441-22	25/22	
11430	Fisher Quarry Channel Range Front Light	LT IMCH	18531	0289-22	17/22	
11465	Government Island Range Front Light	REDUCED INT	18531	0325-22	19/22	
11490	Lady Island Range Front Light	LT EXT	18531	0440-22	25/22	
11655	Fashion Reef Buoy 75	SINKING	18531	0439-22	25/22	
12980	Lake Wallula West Channel Junction Light W	STRUCT DEST/TRLB	18542	0208-20	09/20	

13475	Lake Sacajawea Buoy 58	OFF STA	18545	0422-22	24/22
14420	Baker Bay West Channel Entrance Jetty Light 2	LT IMCH/STRUCT DMGD	18521	0633-21	38/21
14835	Sauvie Island Junction Light	STRUCT DEST/TRLB	18524	0930-21	51/21
15120	Rock Island Channel Buoy 13	MISSING		0464-22	26/22
16136	Strait of Juan De Fuca Traffic Separation Lane Lighted Buoy JA	MISSING	18485	0828-20	47/20
16405	Puget Sound Traffic Separation Lane Lighted Buoy SA	REDUCED INT	18471	0367-22	21/22
17360	Nisqually Flats Light 3	STRUCT DEST/TRLB	18448	0404-21	24/21
18710	Oak Harbor Light 11	STRUCT DEST/TRLB	18428	0652-21	39/21
REPANCIES	(FEDERAL AIDS) CORRECTED				
LLNR	Aid Name	Status	Chart No.	BNM Ref.	LNM St

DISCR

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

DISCREPANCIES (PRIVATE AIDS)

LLNR	Aid Name	Status	Chart No.	BNM Ref.	LNM St	LNM End
651.3	Pacwave South Spotter Lighted Buoy N	OFF STA	18580	0454-22	26/22	
10811	Lewis And Clark Bridge Approach Buoy 1	OFF STA	18524	0390-22	22/22	
10813	Lewis And Clark Bridge Approach Buoy 3	OFF STA	18524	0391-22	22/22	
10814	Lewis And Clark Bridge Approach Buoy 4	OFF STA	18524	0413-22	24/22	
10928	Sandy Island Anchorage Lighted Buoy "S"	LT EXT	18524	0225-22	12/22	
11207	Lower Vancouver Anchorage Lighted Buoy V	LT EXT	18525	0147-22	06/22	
11247	Hayden Island Water Monitoring Lighted Buoy A	MISSING	18526	0413-21	25/21	

DISCREPANCIES (PRIVATE AIDS) CORRECTED

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

PLATFORM DISCREPANCIES

Name Tolium Divinici, Entrat Elimet	Name	Status	Position	BNM Ref.	LNM St LNM
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None

PLATFORM DISCREPANCIES CORRECTED

Name	Status	Position	BNM Ref.	LNM St L	NM 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
9285	Winchester Bay Harbor Entrance Daybeacon 1	TRUB	18584	0353-21	21/21	
10816	Cowlitz River Lighted Buoy 25	DISCONTINUED FOR DREDGING	18524	0427-22	24/22	
12980	Lake Wallula West Channel Junction Light W	TRLB	18542	0214-20	10/20	

148	35	Sauvie Island Junction L	₋ight	TRLB	18524	0936-21	51/21	
173	60	Nisqually Flats Light 3		TRLB	18448	0409-21	24/21	
180	50	Orchard Rocks Fish Pen	Lights (3)	DISCONTINUED	18449	0894-21	50/21	
187	10	Oak Harbor Light 11		TRLB	18428	0287-22	17/22	
TEMPORARY	CHANG	ES CORRECTED						
LLN	R	Aid Name		Status	Chart No.	BNM Ref.	LNM St	LNM End
None								
PLATFORM TE	EMPORA	RY CHANGES						
Name			Status		Position	BNM Ref.	LNM St	LNM End
None								
PLATFORM TE	EMPORA	RY CHANGES CORREC	TED					
Name			Status		Position	BNM Ref.	LNM St	LNM End
None								
		9	ECTION IV .	- CHART CORR	ECTIONS			
				- OTAKT OOKK	20110140			
Th	is section	contains corrections to fe	ederally and nriva	tely maintained Aids to	Navigation as well as	NOS corrections		
This section co	ntains co	rrective actions affecting of decide which chart(s) are	hart(s). Correcti	ons appear numerically	y by chart number, and	pertain to that ch	art only.	ction.
Chart Cha Number Ed	art ition	Edition Last Local N Date to Mariners		ntal Source Reference Correct		iners		
1 . i		1	1		1			
Chart Title: NY-	-NJ-NEW	19-APR-97 Last LNM: YORK HARBOR - RARII			27/97			
Main Pa Temp) ADD		NEW YORK HARBOR IONAL DOCK CHANNEL	BUOY 3	CGD0 at 40-	71 41-09.001N 074-02-4	8.001W		
I .	Green C	can I Object of Corrective		. l Position	1			
Action		Action						
Temp) indicate	es that the	e chart correction action is are toward the light from	temporary in nat	ture. Courses and bea	arings are given in degr	ees clockwise from	m 000 true.	noted
18429	11th		Last LNM: 39/		s expressed in nautical	Tilles (NIVI) utiles	s otherwise i	27/22
		rait-southern part	OUTU DADT D	(C:da. N/A				
wain	Panei 16	82 ROSARIO STRAIT S	JUTH PART. Pa	ige/Side: N/A	NOS			
LAST	EDITION	No new editions of chart 05-Oct-22. Comparable						
		(ENC) coverage is availa	ble. See "Cancell	ation of NOAA Paper a	nd Raster			
		Nautical Charts" in Section NOAA charts is at https://						
0.420	04h F							07/00
18430 ChartTitle: Ro	9th E sario St	d. 01-JUL-10 rait-northern part	Last LNM: 39/	17 NAD 83				27/22
Main	Panel 16	83 ROSARIO STRAIT N	ORTH PART. Pa	age/Side: N/A	NOC			
LAST	EDITION	No new editions of chart	: 18430 will be pu	ıblished. It will be cand	NOS celed on			
		05-Oct-22. Comparable (ENC) coverage is availa	or larger scale Ele ble See "Cancell	ectronic Navigational C ation of NOAA Paper a	hart nd Raster			
		Nautical Charts" in Section	on I of this LNM f	or details. A list of all of	canceled			
		NOAA charts is at https:	//www.charts.no	aa.gov/MCD/Dole.shtm	ni.			
18432	7th E		Last LNM: 44/	13 NAD 83				27/22
ChartTitle: Bo	•		Domo/Oktor N/A					
	•	Pass 85 BOUNDARY PASS.	Page/Side: N/A					

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LAST EDITION No new editions of chart 18432 will be published. It will be canceled on

05-Oct-22. Comparable or larger scale Electronic Navigational Chart (ENC) coverage is available. See "Cancellation of NOAA Paper and Raster Nautical Charts" in Section I of this LNM for details. A list of all canceled NOAA charts is at https://www.charts.noaa.gov/MCD/Dole.shtml.

18433 6th Ed. 01-APR-05 Last LNM: 42/17 **NAD 83** 27/22

ChartTitle: Haro-Strait-Middle Bank to Stuart Island

Main Panel 1686 HARO STRAIT MIDDLE BANK TO STUART ISLAND. Page/Side: N/A

LAST EDITION No new editions of chart 18433 will be published. It will be canceled on 05-Oct-22. Comparable or larger scale Electronic Navigational Chart (ENC) coverage is available. See "Cancellation of NOAA Paper and Raster

Nautical Charts" in Section I of this LNM for details. A list of all canceled

Last LNM: 40/17

NOAA charts is at https://www.charts.noaa.gov/MCD/Dole.shtml.

27/22

18434 7th Ed. ChartTitle: San Juan Channel

Main Panel 1941 SAN JUAN CHANNEL. Page/Side: N/A

01-APR-08

NOS LAST EDITION No new editions of chart 18434 will be published. It will be canceled on 05-Oct-22. Comparable or larger scale Electronic Navigational Chart

(ENC) coverage is available. See "Cancellation of NOAA Paper and Raster Nautical Charts" in Section I of this LNM for details. A list of all canceled

NOAA charts is at https://www.charts.noaa.gov/MCD/Dole.shtml.

18477 6th Ed. 01-SEP-18 27/22 Last LNM: 09/17

NAD 83

ChartTitle: Puget Sound-Entrance to Hood Canal

Main Panel 1938 PUGET SOUND ENTRANCE TO HOOD CANAL - -. Page/Side: -

NOS LAST EDITION No new editions of chart 18477 will be published. It will be canceled on

05-Oct-22. Comparable or larger scale Electronic Navigational Chart (ENC) coverage is available. See "Cancellation of NOAA Paper and Raster Nautical Charts" in Section I of this LNM for details. A list of all canceled NOAA charts is at https://www.charts.noaa.gov/MCD/Dole.shtml.

18504 27/22 66th Ed. 01-JUL-06 Last LNM: 29/17 **NAD 83**

ChartTitle: Willapa Bay; Toke Pt.

Main Panel 1734 WILLAPA BAY. Page/Side: N/A

LAST EDITION No new editions of chart 18504 will be published. It will be canceled on 05-Oct-22. Comparable or larger scale Electronic Navigational Chart

(ENC) coverage is available. See "Cancellation of NOAA Paper and Raster Nautical Charts" in Section I of this LNM for details. A list of all canceled NOAA charts is at https://www.charts.noaa.gov/MCD/Dole.shtml.

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)

COLUMBIA RIVER - WILLAPA BAY - PUGET SOUND - Replacement of incandescent Lights with LED lanterns

The U.S. Coast Guard is replacing the following incandescent lantern with LED lanterns at sites on the Columbia River, Willapa Bay, Bellingham Channel and Eagle Harbor. These current incandescent lanterns have a single or dual beam of high intensity, with an all-around light of reduced intensity. The change to a LED lantern will remove the high intensity beams, but significantly increase the intensity of the all-around light. The sites

Svensen Island Light 12 (LLNR 14775) the high intensity beam will be removed and the intensity of the light will be increased. South Willapa Bay Light 7 (LLNR 15410) the high intensity beam will be removed and the intensity of the light will be increased. Eagle Harbor Light 4 (LLNR 18010) the high intensity beam will be removed and the intensity of the light will be increased. Bellingham Channel Light 5 (LLNR 19175) the high intensity beams will be removed and the intensity of the light will be increased.

The change in light characteristics will be advertised by a Broadcast Notice to Mariners and Light List corrections in the Local Notice to Mariners. Mariners are encouraged to share comments on the performance and operation of these lights as aids to navigation. All comments should be sent to the email address D13-SMB-D13-LNM@uscg.mil. Any discrepancy for these or other Aids to Navigation should continue to be reported to US Coast Guard Sector Columbia River and US Coast Guard Sector Puget Sound.

Charts: 18421 18441 18504 18523 LNM: 19/22

WASHINGTON - WILLAPA BAY - Disestablishment of Willapa Bay Lighted Buoy "C" and Buoy "D" (Revised from LNM 16/22)

The U.S. Coast Guard has permanently disestablished Willapa Bay Entrance Lighted Buoy "C" (LLNR 15186) and Willapa Bay Entrance Buoy "D" (LLNR 15167) as the constantly shifting bar at the entrance to Willapa Bay prevents these buoys from marking the navigable channel, and surf conditions make the placement, retrieval and servicing of these buoys hazardous. There are currently no plans by the US Army Corps of Engineers to dredge or maintain the entrance channel into Willapa Bay. Virtual AIS (V-AIS) signals will be established in place of these buoys. The projected approximate locations are:

Willapa Bay V-AIS "A", a special purpose AIS marking good water at 46-44-18.4N 124-06-21.9W Willapa Bay V-AIS "B", a special purpose AIS marking good water at 46-43-34.4N 124-03-52.7W

Mariners are encouraged to share comments on the performance and operation of aids to navigation All comments should be sent to the email address of D13-SMB-D13-LNM@uscq.mil. Any discrepancy for Aids to Navigation should continue to be reported to US Coast Guard Sector Columbia River.

Chart 18504

WASHINGTON - STRAIT OF JUAN DE FUCA TO STRAIT OF GEORGIA AND PUGET SOUND - Removal of RACONs on aids to navigation

The U.S. Coast Guard will be removing the RACONs from selected aids to navigation in the Strait of Juan de Fuca, Rosario Strait and Puget Sound due to the consistent failure of the signals and that they are no longer considered necessary for safe navigation of the waterways. While there is no specific timeline for the removal of this equipment, it will be coordinated with servicing and discrepancy responses. The removal of the RACONs will be announced by Broadcast Notice to Mariners and published in the Local Notice to Mariners as Chart and Light List corrections. These aids to navigation are:

Hein Bank Lighted Buoy 1 (LLNR 16362)

Rosario Strait Traffic Separation Lane Lighted Buoy "RA" (LLNR 16370)
Puget Sound Traffic Separation Lane Lighted Buoy "SF" (LLNR 16745)
Puget Sound Traffic Separation Lane Lighted Buoy "SG" (LLNR 16815)

Rosario Strait Traffic Separation Lane Lighted Buoy "C" (LLNR 19520)

Rosario Strait Traffic Separation Lane Lighted Buoy "CA" (LLNR 19535)

Puget Sound Traffic Separation Lane Lighted Buoy "SA" (LLNR 16405), the RACON has been permanently discontinued

Mariners are requested to respond in writing to the Coast Guard District office with any comments on this change at D13-SMB-D13-LNM@uscg.mil. Any discrepancy for these or other Aids to Navigation should continue to be reported to US Coast Guard Sector Puget Sound.

18400 18421 18441 18465 LNM: 36/21

WASHINGTON - PUGET SOUND -STRAIT OF JUAN DE FUCA TO STRAIT OF GEORGIA - Removal of ball topmarks from **Isolated Danger Buoys**

The U.S. Coast Guard will be removing the two black ball topmarks from the Isolated Danger Buoys listed below. This action is due to recurring damage of the topmarks from weather events, and the debris has interfered with the visibility of the light signal.

Tolivia Shoal Isolated Danger Lighted Bell Buoy DTS (LLNR 17265) Blakely Island Shoal Isolated Danger Lighted Buoy DS (LLNR 19430)

Reid Rock Lighted Isolated Danger Buoy DR (LLNR 19630)

Mariners are encouraged to share comments on the performance and operation of these lights as aids to navigation. All comments should be sent to the email address D13-SMB-D13-LNM@uscg.mil. Any discrepancy for these or other Aids to Navigation should continue to be reported to US Coast Guard Sector Puget Sound.

Charts: 18421 18448 LNM: 16/22

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

Docket No. Closing Ref. LNM Proposed Project(s)

None

Proposed Change Notice(s)

None

SECTION VII - GENERAL

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

Page 9 of 16 Coast Guard District 13

SUMMARY OF BRIDGE LIGHTING DISCREPANCIES AND CORRECTIONS

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

LNM: 27/22

SUMMARY OF DREDGING OPERATIONS

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

LNM: 27/22

SUMMARY OF MARINE EVENTS

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

LNM: 27/22

OREGON - APPROACHES TO YAQUINA AND DEPOE BAY - Bridge construction notice (Revised from LNM 06/21)

ODOT is conducting cathodic protection upgrades and bridge concrete repairs to the Yaquina Bay Highway 101 Bridge (LLNR 9627) in Newport, OR, at Yaquina Bay mile 0.7. A low-level access walkway system has been constructed across the 4 concrete arch spans from the south bank heading north. While erected, the vertical navigation clearance will be reduced to a minimum of 16 feet at MHHW. The low level walkway system spans from the south bank to the North approx. 880 feet. This system will be functional until approximately the summer of 2024. The main navigational channel will not be impeded by the project as that section is made of steel. Mariners are requested not to loiter under the construction area due to fall hazards. For more information, contact Dan Lutze, the project superintendent, at (503) 519-5408.

The project is taking actions to prevent conflicts with birds. ODOT has contracted with the US Department of Agriculture's Animal and Plant Health Inspection Service (APHIS) to perform bird-hazing activities with an aim to prevent nesting in certain sections of the bridge until scaffolding and containment can be installed. Hazing activities may include noise cannons, laser lights, and pyrotechnics. The activities may happen at any time of day, however, the noise cannons will primarily be used for the few hours surrounding sunset each evening. These efforts will have no effect on marine navigation. Hazing activities are expected to begin at the end of March and continue well into June. For more information on the APHIS activities, contact Steven Schultz at (541) 757-4158 or Steven.Schultz@ODOT.Oregon.gov.

Chart 18561 LNM: 12/22

OREGON - PORT OF PORTLAND - WILLAMETTE RIVER - Bridge notice

The Coast Guard has approved a temporary operating rule change that governs the Morrison Highway Bridge (LLNR 14955.5) across the Willamette River, mile 12.8 at Portland, OR. The Morrison Bridge operates in accordance with 33 CFR 117.897(c)(3)(iv). This temporary rule temporarily suspends the current regulatory cite regarding the Morrison Bridge, and adds a temporary paragraph 33 CFR § 117.897(c)(3)(vi) which amends the operating schedule of the Morrison Bridge. The rule change authorizes the subject bridge to open half of the draw span on signal when at least a two-hour notice has been given, or four-hour notice if a tug assist is needed from 1900 on 01 Apr 2022 through 1900 on 31 May 2023. Mariners may contact the Hawthorne Bridge operator via telephone at (503) 988-3452 or VHF radio channel 13 for an opening of the Morrison Bridge. Half of the draw will be maintained in the closed-to-navigation position to allow for preservation and painting maintenance. The rule change allows the Morrison Bridge to alternate operation of the east or west leaf span during the temporary rule period. The west span will be operational at the beginning of project and the east span will be in the closed-to-navigation position. The horizontal clearance with a full opening is 185 feet, therefore, in single leaf operations, the temporary rule change reduces the horizontal clearance to approximately 90 feet. The dates to switch operational spans will be determined later and published in the Local Notice to Mariners. This rule reasonably accommodates waterway users while reducing Multnomah County's burden to safely clear work crews for bridge openings. When the operational span is in the closed-to-navigation position, the vertical clearance is 69 feet in center and 48 feet on the side. The vertical clearance of the operational span is unlimited when in the open-to-navigation position. This regulation approval allows a containment system under the bridge that reduces the non-opening half of the bridge's vertical clearance by 5 feet fro

Chart 18526 LNM: 09/22

COLUMBIA RIVER - BONNEVILLE TO THE DALLES -SR-197 Highway Bridge notice (Revised from LNM 31/21)

ODOT is conducting a bridge deck replacement project on the SR 197 Highway Bridge (LLNR 12133) at Columbia RM 191.6 near The Dalles, OR and Dallesport WA. A work access and containment platform will be suspended beneath the bridge starting in mid-August and will be in place continuously until approximately 01 Dec 2022. While in place, the vertical navigation clearance will be reduced by approximately 3 feet to a minimum clearance of 97 feet Columbia River datum OHW. If a vessel needs the full 100 feet of vertical clearance for passage through the subject bridge, contact the ODOT Resident Engineer with no less than 12 hours of notice. For more information, or to make a request, contact ODOT Resident Engineer Brad DeHart at (541) 296-2800 or bradley.k.dehart@odot.state.or.us.

Chart 18532 LNM: 23/22

OREGON - SNAKE RIVER - Bridge notice

ODOT will be repairing the bridge that spans the Snake River in Ontario OR at river mile 372. The operations will occur seven days a week, daylight hours only, from 01 Apr to 31 Oct 2022. The bridge will be repaired using an under-bridge inspection truck (UBIT) or snooper crane that occupies approximately 10 feet of the vertical span of the bridge, work containment platforms that occupies approximately 6 feet of vertical span of the bridges, and a barge that will occupy one of the nine existing bridge spans. Mariners are advised to use caution while transiting the area. For additional information contact ODOT District 14 Project Manager, Petr Lovasik at (541) 823-4021 or (541) 709-6889 (cellular) or Petr Lovasik@odot.state.or.us.

LNM: 06/22

OREGON - WILLAMETTE RIVER - PORTLAND TO WALNUT EDDY - Bridge construction notice (Revised from LNM 20/22)

Kiewit Construction will begin a seismic upgrade construction project on the I-205 Highway Bridge (LLNR 15078) AKA, Abernethy Bridge across the Willamette River at RM 25.6, from 20 Jun 22 to 01 Oct 25. The construction activity will take place across the entire river at the bridge. Construction personnel will be working 24 hours a day Monday through Saturday. Bridge construction work will include the installation of multiple temporary work platforms across sections of the river. All river traffic will be restricted to a temporary navigational channel with horizontal clearance of 150 feet wide and vertical clearance of 51.8 feet high at ordinary high water (OHW), or 76.0 feet high at Columbia River Datum (CRD). The temporary navigation channel will be marked with floating buoys with flashing lights to match buoy type (red nun and green can navigational buoys and white can

OREGON - WILLAMETTE RIVER - PORTLAND TO WALNUT EDDY - Bridge construction notice (Revised from LNM 20/22)

informational buoys, each with matching color lights flashing at 4-second intervals). Crews will be using floating cranes and barges, attended by tugs throughout the site. All vessels will monitor VHF channels 13 and 16. Barges will be marked on each corner with a white light flashing at 6-second intervals. Each corner of the multiple trestles will also be marked at each corner with a white light flashing at 6-second intervals. Signage on the trestles will communicate the safe distance from the work zone. For an overview of the work site and navigation channel, see Enclosure (4) of this LNM. For more information contact Kiewit Construction, Ritch Schubert, at (503) 710-2277 or email ritch.schubert@kiewit.com.

LNM: 21/22

OREGON - WILLAMETTE RIVER - EUGENE - Bridge Notice

The City of Eugene, OR, has contracted DOWL for bridge rehabilitation on the Coburg Road Ferry Street Bridge. Rehabilitation plans include bridge deck overlays, cleaning and surface preparation for spot painting, cleaning and protection of bearings, replacement of expansion joints, epoxy injection of concrete cracks. The repair period will be 04 Apr – 31 Oct 2022, Monday through Friday up to 24 hours per day. Containment will be installed and the vertical clearance will be reduced from 27 feet to 22 feet at ordinary high water. The subject bridge crosses the Willamette River at RM 182.2 in location 44-03-28.4 N, 123-05-02.4 W. Mariners transiting under the Coburg Road Ferry Street Bridge should be aware of potential fall hazards. For more information on this project contact Mike Hawkins at (541) 954-9483 or mhawkins@dowl.com.

LNM: 14/22

WASHINGTON - COWLITZ RIVER - Bridge notice

Utility work will be performed on State Route 411 Castle Rock Bridge located in Castle Rock, WA, across the Cowlitz River at river mile 17.4. Cable replacement will take place from 01 Jun - 01 Aug 22, Monday through Friday between 0700 – 1700 daily. The cable replacement will be performed using an under-bridge inspection truck (UBIT) that occupies a portion of the roadway on the subject bridge. The UBIT will be the give way vessel, but mariners are advised to use caution while transiting the area and not transit directly underneath the UBIT. The SR-411 Bridge has a vertical clearance of 8.6 feet at high tide. The UBIT requires 5 to 10 feet of vertical clearance under the bridge at high tide, therefore mariners should expect no clearance in the vicinity of the UBIT. The subject bridge provides 28 feet of vertical clearance at low tide. The UBIT can lower the vertical clearance to 18 feet at low tide. The UBIT will be equipped with a flashing amber light. For additional information, contact Mark Guz at (360) 518-4464 or mark.guz@lumen.com.

LNM: 17/22

WASHINGTON – PUGET SOUND – SEATTLE TO BREMERTON – DUWAMISH WATERWAY – Bridge emergency deviation (Revised from LNM 16/22)

The Coast Guard has approved an emergency temporary deviation from the operating regulations of the 1st Ave South Highway Bridge (LLNR 16887), AKA SR-99 Bridge, across the Duwamish Waterway, mile 2.5, Seattle, WA. Repairs to the bridge are taking longer than anticipated as some necessary parts are being fabricated, and the Coast Guard has extended the emergency deviation until 26 Aug 2022. If repairs are completed sooner, the deviation will be cancelled. The subject bridge sustained damage from a roadway accident, and the draw span is limited to opening when sustained winds are less than 10 knots. The bridge operator may exercise good judgement to delay or not open the draw for a reasonable time only when sustained winds exceed 10 knots. The bridge operator may delay the opening of the draw for a reasonable time while waiting for sustained winds to be less than 10 knots, but shall inform mariners for the reason of delayed openings. Mariners shall contact the bridge operator prior to entering the Duwamish Waterway to request an opening, if the bridge cannot open due to wind velocity, the bridge operator shall record the vessel(s) name and contact them every thirty minutes with a draw status. The reasonable delay to open due to damages applies to all vessels requesting an opening including vessels of 5000 gross tons and over, a vessel towing a vessel of 5000 gross tons and over, and a vessel proceeding to pick up for towing a vessel of 5000 gross tons and over. During this closure, the draw of the subject bridge may also delay opening the draw to marine vessels engaged in emergency operations.

Chart 18450 LNM: 19/22

WASHINGTON – LAKE WASHINGTON SHIP CANAL – LAKE WASHINGTON – Interstate 90 Highway Bridge Anchor Cable Replacement

WSDOT will be replacing anchor cables linking the I-90 Highway Bridge (west channel) (LLNR 18389) in Lake Washington. The project will take place within a 1000ft wide strip on both the north and south sides of the I-90 floating bridge from 17 Mar to 30 Sep 2022. Work will be carried out during 24 hour shifts typically starting Monday morning at 0600 and finishing Friday at 1800, with some occasional weekend hours. A derrick crane, DB Alameda, will be used to winch up existing anchor cables and pay out new anchor cables. DB Alameda will maneuvered by the tug Capt Cae, and multiple flat deck barges and working skiffs will be maneuvering within the work zone. All vessels may be contacted on VHF-FM Channel 16. Deepwater divers will be deployed to disconnect the old cable and reconnect the new cable at the lakebed and shallow water divers will be deployed to assist with cable handling near to and under the floating pontoons. All barges will be lighted on the outermost corners of the individual barge. An orange buoy will mark the anchor noting the location and used for retrieval. Some locations on the SW corner of the work zone will require anchors attached to a pendant line for extra length and feature 2 buoys, one for the anchor and another for the pendent line. Mooring of vessels to the bridge will have line travels slightly above and below the water between the derrick crane and the bridge. Mariners transiting through the area shall not produce a wake or approach the barges within 500 feet. No boat traffic is permitted between the barge and the bridge at any time during the course of the project. For additional information, contact Andrew Schaal (0600-1800) at Andrew.Schaal@kiewit.com and (541) 969-0559; or Evan Spading (1800-0600) at Evan.spading@kiewit.com and (808) 342-3561.

Chart 18447 LNM: 10/22

WASHINGTON – LAKE WASHINGTON – SAMMAMISH RIVER – West Sammamish River Bridge Notice (Revised from LNM 13/20) Construction on the West Sammamish River Bridge at Sammamish River mile 0.5 near Kenmore, Washington is ongoing and will continue through October 2023. The western bridge will be removed and a new bridge constructed. Mariners may transit through the construction zone, but are advised that temporary work piers will be constructed on the west side of the bridge, and will reduce the horizontal span to 40 feet of clearance. Containment will be installed under the bridge reducing the vertical clearance from 11.5 feet to 10.5 feet measured at OHW. Working hours will normally be from 0600 to 1800 six days per week, however, during the in water work window of 01 Jul to 31 Aug, operations will be 24 hours per day. If construction falls behind schedule, the work hours may shift to 24 hours/seven days per week. For more information regarding construction, contact Jake Brockmoller at (253) 888-2514, or Mick Cannon at (253) 377-1041.

Chart 18447 LNM: 05/21

WASHINGTON - EVERETT HARBOR - SNOHOMISH RIVER - Bridge Inspection

WSDOT will be inspecting the SR 529 Bridges (LLNR 18591.2 south bound, and LLNR 18591.3 north bound) across the Snohomish River at river mile 3.7 near Everett, WA. The inspections will take place between 0800 – 1500 daily on 18 – 22 Jul 22, and 25 – 28 Jul 22. The bridges will be inspected using an under-bridge inspection truck (UBIT) that occupies a portion of the roadway and extends a boom under the bridge. There is no fixed

WASHINGTON - EVERETT HARBOR - SNOHOMISH RIVER - Bridge Inspection

impact to navigational clearance from this operation (~10 ft. reduction to clearance while bucket is under the bridge, however the UBIT will promptly give way to tall marine vessels). Mariners are advised to use caution while transiting the area. The UBIT bucket will have a flashing amber light on the bottom and a safety lookout will be on the bridge. Bridge openings will not be impacted. For additional information, contact Alan Kuper, P.E. at (360) 701-0556 or kupera@wsdot.wa.gov.

Chart 18444 LNM: 17/22

WASHINGTON - EVERETT HARBOR - STEAMBOAT SLOUGH - Bridge Inspection

WSDOT will be inspecting the SR 529 Bridges (LLNR 18594.9 south bound, and LLNR 18594.11 north bound) across Steamboat Slough at river mile 1.1 and 1.2 near Marysville, WA. The inspections will take place between 0800 - 1500 daily on 18 - 22 Jul 22, and 25 - 28 Jul 22. The bridges will be inspected using an under-bridge inspection truck (UBIT) that occupies a portion of the roadway and extends a boom under the bridge. There is no fixed impact to navigational clearance from this operation (~10 ft. reduction to clearance while bucket is under the bridge, however the UBIT will promptly give way to tall marine vessels). Mariners are advised to use caution while transiting the area. The UBIT bucket will have a flashing amber light on the bottom and a safety lookout will be on the bridge. Bridge openings will not be impacted. For additional information, contact Alan Kuper, P.E. at (360) 701-0556 or kupera@wsdot.wa.gov.

Chart 18444 LNM: 17/22

OREGON - CAPE SEBASTIAN TO HUMBUG MOUNTAIN - ROGUE RIVER - Shoaling and limited Coast Guard response capability

The Coast Guard provides a seasonal Search and Rescue Detachment (SARDET) on the Roque River in Gold Beach, Oregon. This unit exists to ensure the safety of the maritime community along the Southern Oregon Coast during periods of increased recreational vessel activity. Currently, significant shoaling is present in the Rogue River and mariners will experience shallower water depths than normal and shallower than charted. During most tidal conditions, the shoaling is preventing the Coast Guard from operating vessels in the river and entrance due to insufficient water depth. USCG Station Chetco River will continue to site a response vessel at Rogue River as often as practicable with respect to available water depth. Additional Search and Rescue response, such as outside the mouth of the river and helicopter operations will continue to be provided from Station Chetco River and Sector North Bend. Dredging at the entrance of the river and in the federal channel is scheduled to begin on or about 08 Jun 2022, During dredging operations, the dredge, barge, support vessels and additional equipment may significantly block the channel. Mariners are encouraged to keep a safe distance from all dredging operations.

Chart 18601 LNM: 23/22

OREGON - CAPE BLANCO TO YAQUINA HEAD - Scientific equipment installation

Oregon State University (OSU) has installed four, 1-mile long, 10-inch diameter, steel conduits under the seafloor running out from Driftwood Beach State Recreation Site near Seal Rock, Oregon, as part of the construction of the PacWave South Wave Energy Test Site. In mid-2023, subsea cables will be installed in the conduits to carry power and data from the test site to shore. Until the cables are installed, the seaward end of the conduits may protrude up to 3 feet vertically and 10 feet horizontally from the seafloor depending on sand movement. Once the cables are installed, the final placement of the conduits will be below the seafloor. The conduit punch outs are located approximately 1500 yards offshore from Driftwood Beach, which is between Seal Rocks and Waldport.

Until the subsea cables are installed, mariners are requested to avoid anchoring or setting fishing gear in a 1,000 x 1,500-foot Conduit Punch Out Area around the conduit exit locations due to risk of snagging on any exposed conduit. The location of the Conduit Punch Out Area was shown in the graphic attached as Enclosure (4) to LNM 52/21. If crab pots, or other equipment, becomes snagged in this area, mariners are asked to contact OSU prior to attempting to recover the snagged items. For more information contact Brett Hembrough at (541) 737-9023 and brett.hembrough@oregonstate.edu, or Dan Hellin at (541) 745-8337 and dan.hellin@oregonstate.edu.

Chart 18580 LNM: 49/21

COLUMBIA RIVER - PACIFIC OCEAN TO HARRINGTON POINT - Mouth of the Columbia River Jetty System Major Rehabilitation

Scheduled repairs of the South Jetty have commenced and are planned to continue through 2024. The 2022 seasonal operations have commenced on and a material off load facility has been constructed at the east end of the park; along the Columbia River, near Trestle Bay. The offload mooring barge will be in place starting on 19 Apr 2022. The offload facility has an aerial clearance of approximately 60 ft above the water line. When there is a barge being unloaded a crane will be utilized, the aerial clearance is about 140 ft. The ends of the spuds are painted white for visibility. For questions or additional information please call or email Sherri Brenner at (503) 550-6743 or email Sheri@jemcamis.com, or the project superintendent, Aaron Anderson at (503) 791-2161 or email AAnderson@jemćamis.com.

The 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. Repairs of the North jetty were completed in 2019. More information may be found at the USACE Portland District web site: http://www.nwp.usace.army.mil/jetties/

Chart 18521 LNM: 13/22

COLUMBIA RIVER SYSTEM AND WASHINGTON - Testing of prototype plastic buoys

The U.S. Coast Guard is testing various prototype plastic buoys to observe their station keeping ability and visual and radar detection capabilities. Buoys are being placed at the following locations for evaluation:

On the Columbia, Snake and Willamette Rivers:

Columbia River Entrance Lighted Buoy 3 (LLNR 9911)

Desdemona Sands Lighted Buoy 22 (LLNR 9990), set on 1/13/2022

Hood River Lighted Buoy 36 (LLNR 11932), set on 12/14/2021 Bonneville Pool Lighted Buoy 69 (LLNR 12130), set on 5/10/2022

Lake Celilo Buoy 45 (LLNR 12360), set on 9/28/2022 Lake Wallula Lighted Buoy 2 (LLNR 12815), set on 10/04/2021

Snake River Buoy 14 (LLNR 13195), set on 9/30/2021

Snake River Buoy 18 (LLNR 13210) Elk Rock Buoy 10 (LLNR 15005), reset on 1/06/2022

Elk Rock Buoy 12 (LLNR 15010)

COLUMBIA RIVER SYSTEM AND WASHINGTON - Testing of prototype plastic buoys

In Grays Harbor and Admiralty Inlet Washington: Point Chehalis Lighted Buoy 4 (LLNR 15990), set on 5/24/2022 Point Wilson Lighted Buoy 6 (LLNR 16470), set on 12/16/2021

While the buoys performance is being studied, the US Coast Guard is soliciting comments from the maritime community transiting this waterway. Mariners are requested to respond in writing to the Coast Guard District office with any comments on this change at D13-SMB-D13-LNM@uscg.mil. Any discrepancy for these or other Aids to Navigation should continue to be reported to US Coast Guard Sector Columbia River and US Coast Guard Sector Puget Sound.

Charts: 18502 18533 18545 LNM: 21/22

COLUMBIA RIVER - PACIFIC OCEAN TO HARRINGTON POINT - HARRINGTON POINT - WOODY ISLAND CHANNEL - Current

NOAA has deployed a yellow, oceanographic data collection buoy to measure currents in Woody Island Channel about 1500 yards SE of Harrington Point Channel LB 54 (LLNR 10190), in approximate position 46-14-15.288 N, 123-41-09.528 W. The buoy has a yellow light with a group flashing (5) every 20 seconds characteristic. The buoy will be deployed until the end of Sep 2022. For more information, contact Drew Maczko, at (206) 526-6918 or email at drew.maczko@noaa.gov.

Chart 18521 LNM: 16/22

COLUMBIA RIVER - PACIFIC OCEAN TO HARRINGTON POINT - NORTH CHANNEL - Current measuring buoy

NOAA has deployed a yellow, oceanographic data collection buoy to measure currents in the Columbia River North Channel between Grays Point Light 13 (LLNR) and Portuguese Point Daybeacon 14A near the entrance to Grays Bay, in approximate position 46-16-26.076 N, 123-45-24.480 W. The buoy has a yellow light with a group flashing (5) every 20 seconds characteristic. The buoy will be deployed until the end of Sep 2022. For more information, contact Drew Maczko, at (206) 526-6918 or email at drew.maczko@noaa.gov.

Chart 18521 LNM: 16/22

COLUMBIA RIVER - VANCOUVER TO BONNEVILLE - Shoaling protruding into Reed Island Reach

Due to shoaling extending south into the Reed Island Reach Channel south of Reed Island, the US Coast Guard has relocated Reed Island Reach Lighted Buoy 61 (LLNR 11580) to approximate position 45-32-46.318N 122-18-02.052W. This position is near the center of the channel. Vessels transiting Reed Island Reach should navigate on the southern edge of the channel between longitudes 122-17-30.0W and 122-18-25.0W (RM 125+40 to 126+40) and proceed with caution.

Chart 18531 LNM: 30/21

COLUMBIA RIVER - PASCO TO RICHLAND - LAKE WALLULA - Research buoy deployment

USACE has deployed a temporary research data collection buoy in the Columbia River at RM 329.2 in approximate position 46-13-24 N 119-06-59 W. This location is between the Pasco-Kennewick Highway Bridge (LLNR 13052.5) and the US-395 Blue Highway Bridge (LLNR 13057), close to the northern (Pasco) shore. The buoy is yellow, round in shape, approximately 6 ft tall and 4 ft wide, with a yellow light flashing every four seconds (Fl 4s). The buoy will be in place until 30 Sep 2022. For more information, contact Wayne Jousma at (509) 527-7447 or email wayne.r.jousma@usace.army.mil

Chart 18543 LNM: 14/22

OREGON - PORT OF PORTLAND - WILLAMETTE RIVER - Bank stabilization work

Anderson Construction will conduct bank restoration work on the Willamette River from 15 Jun to 31 Oct 2022. The work site is on the western shore of the Willamette River south of the Ross Island Highway Bridge (LLNR 14959.7) near RM 14.4 in approximate location 45-29-41 N, 122-40-06 W. A turbidity curtain will be installed via barge on 15 Jun and then demobilized at the end of the project. Once the turbidity curtain is installed, all work will be done shoreside of the turbidity curtain. For more information, contact the Project Engineer David Knudsen at (503) 702-6969 or email at dknudsen@andersen-const.com

Chart 18526

WASHINGTON - STRAIT OF JUAN DE FUCA - SWIFTSURE BANK - ECHO Program 2022 Voluntary Vessel Slowdown trial at

Effective 01 Jun 2022, the Enhancing Cetacean Habitat and Observation (ECHO) Program voluntary vessel slowdown trial in the vicinity of Swiftsure Bank is in effect for all inbound and outbound commercial and government vessels. If it is safe and operationally feasible to do so, commercial and government vessels are requested to not exceed the following speeds through the water:

11 knots - Bulkers, tankers, general cargo vessels, and government vessels; and,

14.5 knots – Vehicle carriers, cruise ships, and container vessels.

The voluntary vessel slowdown trial takes place in the inbound and outbound lanes of the vessel traffic separation scheme between the start or end of the traffic separation scheme on the western or southern side, and the 124-40-00 W longitudinal line (radio call in point 1) on the eastern side. Speed transition zones are in place about 5 nautical miles prior to entering the slowdown area.

The ECHO Program voluntary slowdown trial in Swiftsure Bank aims to reduce underwater noise in known southern resident killer whale feeding areas. This initiative will remain in effect 24 hours per day until 2359 PDT on 31 Oct 22. The voluntary slowdowns at Swiftsure Bank and in Haro Strait and Boundary Pass are led by the Vancouver Fraser Port Authority's ECHO (Enhancing Cetacean Habitat and Observation) program, in cooperation with government agencies, Indigenous communities, industry partners and environmental groups. For more detailed information related to this slowdown trial and the ECHO program, refer to the following internet web address: https://www.portvancouver.com/environmentalprotection-at-the-port-of-vancouver/maintaining-healthy-ecosystems-throughout-our-jurisdiction/echo-program/projects/swiftsure-bank-. slowdown/

Chart 18460

WASHINGTON - STRAIT OF JUAN DE FUCA - Port of Vancouver Canada 2022 Voluntary Lateral Displacement

As of 01 Jun 22, the Enhancing Cetacean Habitat and Observation (ECHO) Program voluntary inshore lateral displacement is in effect for all tugs transiting the Canadian inshore area of the Strait of Juan de Fuca. If it is safe and operationally feasible to do so, tugs are requested to move south of the known killer whale feeding area and navigate either through the outbound shipping lane or the inshore lateral displacement zone, while maintaining a buffer distance of 1,000 meters from the traffic separation scheme (TSS). The inshore lateral displacement zone is 1,500 meters wide and occurs in the area between 123-52-21.192 W, 48-18-37.332 N and 124-31-33.378 W, 48-28-53.316 N, covering a distance of approximately 28

WASHINGTON - STRAIT OF JUAN DE FUCA - Port of Vancouver Canada 2022 Voluntary Lateral Displacement

NM. The ECHO Program voluntary lateral displacement initiative aims to reduce underwater noise in known southern resident killer whale feeding areas along the northern edge of the Strait of Juan de Fuca. This initiative will remain in effect 24 hours a day through 31 Oct 22. For more detailed information related to lateral displacement and the ECHO program, visit the following web address:

https://www.portvancouver.com/environmental-protection-at-the-port-of-vancouver/maintaining-healthy-ecosystems-throughout-our jurisdiction/echo-program/projects/lateraldisplacement/

Chart 18460 LNM: 21/22

WASHINGTON - PUGET SOUND - APPLE COVE TO KEYPORT - Submersible Vehicle testing

The Naval Undersea Warfare Center (NUWC) at Keyport, WA will be continuing operations in the vicinity of NUWC between University Point, the Brownsville Marina and Keyport through 23 Dec 2022. Operations will normally be conducted Monday through Friday during daylight hours. Operations will involve semisubmersible and submersible vehicles escorted by a small naval craft with a flashing red light. The small craft will monitor VHF-FM channels 12 and 16. The call sign for the small craft will be "Keyport Range Control". All craft transiting the area are requested to exercise caution and maintain a sharp lookout for possible semi-submerged vehicles while the range is in operation. Questions can be directed to Keyport Range Control on VHF-FM channels 12 and 16 or by contacting the Pacific Northwest Range Management and Ops Division, Range Control Branch, at (360) 396-2313.

Chart 18446 LNM: 02/22

WASHINGTON - PUGET SOUND - ELLIOTT BAY - Colman Dock construction

Washington State Ferries is conducting demolition and construction operations at the Colman Docks, scheduled to be completed in the summer of 2022. Operations will be conducted from 0700 to 1700, Monday through Friday. Mariners should be aware of marine construction equipment moored around the Colman Dock and regular tows up and down the Duwamish River in support of the operation. Equipment may obstruct small sections of the waterway adjacent to Colman Dock. Water quality monitoring will be taking place during construction operations. Please direct any inquiries to WSF Communications at (206) 402-8070 or email wsfcomms@wsdot.wa.gov.

Chart 18450 LNM: 27/17

WASHINGTON - PUGET SOUND - ELLIOT BAY - DUWAMISH WATERWAY - Terminal 5 pier construction

Orion Marine will be continuing the marine construction activities associated with the Terminal 5 Berth Modernization Project for the Port of Seattle on the Duwamish River west waterway. Phase 2 of the project includes pile installation and new pier construction for and will run through Aug 2023. Work will typically take place from 0700 to 1700, Monday thru Friday. The DB Rainier and DB St. Helens, will each have a material barge moored alongside and will always remain on site. Each floating plant will have all corners marked with steady burn white lights. The DBs will run on anchors at times so mariners are requested to keep at least a 200-foot distance. The crane and tugs will monitor VHF-FM channel 13. For additional information please contact Jesse Galligan at (253) 552-1140 or email at jgalligan@orionmarinegroup.com.

Chart 18450 LNM: 02/22

WASHINGTON - LAKE WASHINGTON SHIP CANAL - LAKE WASHINGTON - Outfall pipe

Mariners should be aware of a new, permanent outfall pipe that has been installed at The Boeing Company's Renton manufacturing facility at the southern end of Lake Washington. The terminus of the outfall extends approximately 52 feet into the lake at the northeast corner of the Boeing property at an approximate position of 47-30-12.0 N and 122-12-25.2 W. The water depth from the top of the outfall varies from 7.5 to 9.2 feet below low lake level. For additional information about this outfall and its location, contact Mark Clement (425) 229-4279 or email at mark.d.clement@boeing.com.

Chart 18447 LNM: 17/22

WASHINGTON – STRAIT OF JUAN DE FUCA TO STRAIT OF GEORGIA – SWINOMISH CHANNEL SOUTH ENTRANCE – Shoaling (Revised from LNM 14/22)

Significant shoaling exists in Swinomish Channel, especially the South Entrance between South Entrance Buoy 5 (LLNR 18802) and South Entrance Daybeacon 12 (LLNR 18812). The project depth of Swinomish Channel is 12 feet, however, the controlling depth of Swinomish Channel is 4.1 feet based upon the latest available hydrographic data. This controlling depth of 4.1 feet is reflected on NOAA ENC products. Raster products do not reflect this sounding information, as they are no longer being updated with most routine corrections. Mariners should consult ENC cells for the most up-to-date information. Mariners should transit the Swinomish Channel waterway with caution, especially at low tidal conditions.

Chart 18427 LNM: 15/22

WASHINGTON – STRAIT OF JUAN DE FUCA TO STRAIT OF GEORGIA – CAP SANTE WATERWAY AND PADILLA BAY – Diving operations

Natural Resources Consultants and Northwest Straits Foundation will conduct WDFW-approved surface supplied air dive operations to remove derelict crab pots from the Anacortes, Guemes Island, and Padilla Bay areas from 23 May to 15 Jul 2022. Dive operations will take place from 0800-1600 daily from the 30 foot F/V Cadence, loaded with surface supplied air divers and full complement of surface supplied air diving equipment. The southern portion of the operation consists of the waters offshore of Anacortes from Cap Sante Marina to Hat Island, including the northern section of the Swinomish Channel entrance. The northern section includes the northern region of Padilla Bay, from Saddlebag Island to William Point. F/V Cadence will monitor VHF-FM Channel 16. Mariners operating in this area are requested to remain at least 100 yards from vessel during dive operations. For more information, contact the project POCs Kyle Antonelis at (206) 355-9358, kantonelis@nrccorp.com, or Joan Drinkwin at (360) 820-3323, jdrinkwin@nrccorp.com.

Charts: 18421 18424 18427 LNM: 21/22

WASHINGTON - STRAIT OF JUAN DE FUCA TO STRAIT OF GEORGIA - HALE PASSAGE - Marine construction

American Construction Co. will be replacing the breakwater near the Lummi Island Ferry terminal from 01 Aug to 12 Oct 2022. The work consists of removing the old breakwater and replacing with a larger, 125-ft breakwater and includes some rock drilling. Operations will usually be conducted from 0700-1530 on Monday – Friday in approximate location 48-43-13.950N, 122-40-50.410W. The derrick barge Palouse will be on site with barges Skagit and Chelan, and can be reached on VHF-FM channel 16 or cell phone (425) 238-3144. Mariners are requested to maintain at least 100 yards from the operation. For more information contact Rob Pate at (425) 238-3144, or email robp@americanconstco.com.

Chart 18421 LNM: 23/22

OREGON – WASHINGTON – IDAHO – NOAA's planned cancellation of Paper and Raster charts (Revised from LNM 09/21)

The National Oceanic and Atmospheric Administration (NOAA) is undertaking a multi-year program to end production and maintenance of its suite of

OREGON - WASHINGTON - IDAHO - NOAA's planned cancellation of Paper and Raster charts (Revised from LNM 09/21)

over 1,000 traditional paper nautical charts and all associated raster chart products and services, including: Print-on-Demand (POD) paper nautical charts, Full-size chart PDF files, BookletChart™ PDF files, NOAA raster navigational charts (NOAA RNC®), the NOAA RNC tile service, and the online RNC viewer.

Six months prior to cancelation, a notice of the intent to cancel a specific chart will be provided via a "Last Edition" notice. The final cancelation of a chart will be made via a "Canceled" notice. Both types of notices will appear in LNM Section IV, "Chart Correction." A comprehensive list of all cancelled NOAA charts is available at: http://www.charts.noaa.gov/MCD/Dole.shtml.

Traditional paper nautical chart production is ending to enable the creation and maintenance of larger scale, more up-to-date, higher quality coverage of NOAA's electronic navigational chart (NOAA ENC®) product. This will significantly enhance the amount of charted detail available to mariners. More information about NOAA's program to sunset traditional paper charts is on the NOAA Coast Survey website at: https://nauticalcharts.noaa.gov/charts/farewell-to-traditional-nautical-charts.html. An online NOAA Custom Chart application at: https://devgis.charttools.noaa.gov/pod is available to create chart images from ENC data, which may then be printed. Notices to Mariners will not be issued for NOAA Custom Charts.

LNM: 10/21

OREGON - WASHINGTON - IDAHO - Farewell to traditional nautical charts

NOAA is in the process of "sunsetting" or ending the production of traditional paper charts. However, even prior to traditional chart production ending, users may notice differences between paper charts and ENCs. There are two broad categories of data that are applied onto NOAA ENCs and paper / raster nautical charts – "Critical Corrections" and "Routine" data. Critical Corrections may be newly discovered shoals or other dangers to navigation, as well as changes in the positions or characteristics of aids to navigation (buoys, beacons, and lights). These are typically changes that are published by the Coast Guard in the weekly LNM. Critical corrections are applied to ENCs first, then applied to paper and raster nautical charts. These changes generally appear on both product types (raster and ENC) within a week of each other. However, new Routine source data are now ONLY applied to NOAA ENCs and not to traditional paper and raster nautical charts. Routine data includes the results of ordinary hydrographic and shoreline surveys, which could be extensive. Any specific dangers revealed during routine surveys are extracted from the data and classified as Critical Corrections to be applied to all products. For more information visit NOAA's website: https://nauticalcharts.noaa.gov/charts/farewell-to-traditional-nautical-charts.html

LNM: 15/22

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	
8942	Coos Bay Channel Lighted Buoy 20	43-24-59.536N 124-16-23.269W	FI R 4s		4	Red.		27/22
8952	Coos Bay Channel Lighted Buoy 22	43-25-11.483N 124-16-09.431W	FI R 2.5s		* 4	Red.		27/22

*

ENCLOSURES

Enclosure 1

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

LNM: 27/22

Enclosure 2

OREGON - WASHINGTON - COLUMBIA RIVER - Summary of Dredging Operations

LNM: 27/22

Enclosure 3

OREGON - WASHINGTON - COLUMBIA RIVER - Summary of Marine Events

LNM: 27/22

Enclosure 4

COLUMBIA RIVER - BONNEVILLE TO THE DALLES - LITTLE WHITE SALMON RIVER - BNSF Railroad Bridge pile removal

M: 25/22

Enclosure 5

LNM: 24/22

Enclosure 6

COLUMBIA RIVER - PACIFIC OCEAN TO HARRINGTON POINT - Old Youngs Bay Highway Bridge and Lewis & Clark River Highway Bridge sketches

LNM: 25/22

Enclosure 7

OREGON - WASHINGTON - SAN FRANCISCO TO CAPE FLATTERY - NOAA and Saildrone joint ocean survey operations

LNM: 26/22

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 Brendan J. Harris Chief, Waterways Management Branch Thirteenth Coast Guard District

		BR	IDGE DISCREP	ANCIES		
Waterway	Light List	Bridge Name	Location	Status	Date Reported	BNM
OREGON COAST						
None						
COLUMBIA RIVER						
None						
SNAKE RIVER						
None						
WILLAMETTE RIVER						
	14927.5	St Johns Railroad Bridge	Portland, OR	Red pier light on downriver, east side is extinguished	6/10/2022	0421-22
WASHINGTON COAST						
	15897	Chehalis River Bridge	Aberdeen, WA	Electrical Casualty due to vandalism - bridge must be opened manually. 2-hour advance notice required.	6/8/2022	0414-22
PUGET SOUND						
	16887	1st Ave South Highway Twin Bridge	Seattle, WA	Damaged; cannot open when winds exceed 10kts Mariners call bridge operator prior to transit	2/17/2022	0163-22
	18398	I-90 Highway Bridge (east channel)	Seattle, WA	Green center light extinguished	12/13/2021	0909-21
IDAHO						
None						
		BI	RIDGE CORREC	CTIONS		
Waterway	Light List	Bridge Name	Location	Status	Date Reported	BNM
OREGON COAST						
None						
COLUMBIA RIVER						
None						
SNAKE RIVER						ı
None						
WILLAMETTE RIVER						
None						
WASHINGTON COAST				1		
None						
PUGET SOUND			1	'		1
None						
IDAHO						
None						

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

		Di cuging c	perations are scheduled or in	Progress at	the following it	oca ciono.		
Start Date	End Date	Times	Location	Dredge Vessel	Assist Vessel	Channel monitored	Disposal Area	LNM
1-Jul-22	23-Jul-22	24 Hrs / 7 Days	Rogue River; Boat Basin Access Channel (RM 00+03+17 to 00+21+00)	Patriot, Snohomish	Lummi Island Cassie Lind Regulator	VHF-FM 13 &16	ODS	20/22
24-Jul-22	24-Aug-22	24 Hrs / 7 Days	Rogue River; Gravel Bar (RM 00+00 to 16+37)	Patriot, Snohomish	Lummi Island Cassie Lind Regulator	VHF-FM 13 &16	ODS	20/22
29-Jun-22	7-Jul-22	24 Hrs / 7 Days	Coquille River (RM -00+10 to 00+35)	M/V Yaquina	None	VHF-FM 13 &16	ODMDS	27/22
29-Jun-22	7-Jul-22	24 Hrs / 7 Days	Coos Bay (Foul Wx Backup) (RM 02+00 to 03+30)	M/V Yaquina	None	VHF-FM 13 &16	Site F, Site G	27/22
29-Jun-22	7-Jul-22	24 Hrs / 7 Days	Coos Bay (Foul Wx Backup) (RM 06+00 to 07+30)	M/V Yaquina	None	VHF-FM 13 &16	Site F, Site G	27/22
29-Jun-22	7-Jul-22	24 Hrs / 7 Days	Coos Bay (Foul Wx Backup) (RM 10+20 to 11+40)	M/V Yaquina	None	VHF-FM 13 &16	Site F, Site G	27/22
29-Jun-22	7-Jul-22	24 Hrs / 7 Days	Umpqua River; Entrance (RM -01-15 to 00+45)	M/V Yaquina	None	VHF-FM 13 &16	NUROS ODMDS-S	27/22
29-Jun-22	7-Jul-22	24 Hrs / 7 Days	Umpqua River; Salmon Harbor (RM 01+00 to 01+40)	M/V Yaquina	None	VHF-FM 13 &16	NUROS ODMDS-S	27/22
29-Jun-22	7-Jul-22	24 Hrs / 7 Days	Umpqua River; Barretts Range (RM 04+00 to 05+20)	M/V Yaquina	None	VHF-FM 13 &16	NUROS ODMDS-S	27/22
29-Jun-22	7-Jul-22	24 Hrs / 7 Days	Siuslaw River (RM -00+20 to 00+35)	M/V Yaquina	None	VHF-FM 13 &16	NSROS	27/22
29-Jun-22	7-Jul-22	24 Hrs / 7 Days	Yaquina Bay, Entrance (RM -00+50 to 00+40)	M/V Yaquina	None	VHF-FM 13 &16	YBOS N&S	27/22
3-Jul-22	7-Jul-22	24 Hrs / 7 Days	Yaquina Bay; Harbor (Foul Wx Backup) (RM 01+10 to 02+20)	M/V Yaquina	None	VHF-FM 13 &16	YBOS S	27/22
10-Jul-22	21-Aug-22	24 Hrs / 7 Days	Columbia River; TBD (RM 03+00 to 145+00)	M/V Bayport	John M	VHF-FM 13, 16 & 66	TBD	27/22
10-Jul-22	12-Jul-22	24 Hrs/7 Days	Columbia River; Miller Sands / Pillar Rock (RM 24+40 to 25+30)	M/V Essayons	None	VHF-FM 13 &16	RM 24 WA side	27/22
6-Jul-22	1-Aug-22	24 Hrs / 7 Days	Columbia River; Pillar Rock Range (RM 28+18 to 29+00)	M/V Oregon	Clackamas, Ivanhoff and Williams	VHF-FM 13 &16	TBD	27/22
10-Jul-22	21-Jul-22	24 Hrs / 7 Days	Columbia River; Puget Island (IVO RM 36+00)	M/V Bayport	John M	VHF-FM 13, 16 & 66	TBD	27/22
12-Jul-22	14-Jul-22	24 Hrs/7 Days	Columbia River; Westport / Eureka Bar (RM 47+40 to 48+35)	M/V Essayons	None	VHF-FM 13 &16	RM 32 WA side	27/22
3-Jul-22	6-Jul-22	24 Hrs / 7 Days	Columbia River; Pillar Rock Range (RM 58+25 to 59+23)	M/V Essayons	None	VHF-FM 13 &16	RM 53 WA side	27/22
6-Jul-22	8-Jul-22	24 Hrs/7 Days	Columbia River; Walker Island (RM 60+05 to 61+10)	M/V Essayons	None	VHF-FM 13 &16	RM 55 WA side	27/22
8-Jul-22	10-Jul-22	24 Hrs/7 Days	Columbia River; Lower Dobelbower / Slaughters (RM 66+20 to 67+20)	M/V Essayons	None	VHF-FM 13 &16	RM 56 WA side	27/22

OREGON - COLUMBIA RIVER - WASHINGTON DREDGING OPERATIONS

1-Jul-22	5-Jul-22	0800 - 1800	Willamette River, P2 Terminal Nu-Star (RM 5.1)	M/V Sea Horse	Tug Terilyn	VHF-FM 13 &16	N/A	25/22
16-Jul-22	30-Sep-22	TBD	Willapa Bay; Tokeland, near Willapa Bay Channel LT 15	Ross Island Dredge #7	None	VHF-FM 13, 16 & 79	Shore via pipeline	27/22

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

USACE dredges request mariners transit at their slowest safe speed to minimize wake when in the vicinity of a dredge and proceed with caution after making passing arrangements. Vessel(s) and/or equipment may encroach into the channel.

	SECTOR COLUMBIA RIVER MARINE EVENTS				
EVENT DATE	TIME	EVENT NAME	EVENT LOCATION		
7-Jul-22	1800-2130	OCSA Sailboat Race -SYSCO Summer Evening	Columbia River between I-5 and I-205		
7-JUI-22	1800-2130	Series	Bridges, Portland, OR		
8-Jul-22	0700-1800	Kiteboard 4 Cancer	Columbia River, Hood River, OR		
9-Jul-22	2130-2300	RaINIER Days/ Days in the Park	Raineir WA		
9-Jul-22	1030-1730	Gorge Outrigger Canoe Race	Columbia River between Stevenson, WA and Bingen, WA		
9-Jul-22	0700-1800	Kiteboard 4 Cancer	Columbia River, Hood River, OR		
10-Jul-22	1030-1830	The Big Float	Willamette River, Downtown Portland, OR		
10-Jul-22	0700-1800	Kiteboard 4 Cancer	Columbia River, Hood River, OR		
10-Jul-22	0700-1630	Portland Bridge Swim	Portland, OR		
10-Jul-22	1130-1730	Gorge Downwind Champs	Columbia River, Home Valley, WA to Hood River, OR		
10-Jul-22	1230-1630	OCSA Sailboat Race -PYC Summer Regatta	Columbia River between I-5 and I-205 Bridges, Portland, OR		
11-Jul-22	1130-1730	Gorge Downwind Champs	Columbia River, Home Valley, WA to Hood River, OR		
11-Jul-22	1615-2100	OCSA Sailboat Race -ISC Monday Night Racing Series	Columbia River between I-5 and I-205 Bridges, Portland, OR		
12-Jul-22	1130-1730	Gorge Downwind Champs	Columbia River, Home Valley, WA to Hood River, OR		
12-Jul-22	1800-2130	OCSA Sailboat Race - SYSCO Twilight Series	Columbia River between I-5 and I-205 Bridges, Portland, OR		
13-Jul-22	1130-1730	Gorge Downwind Champs	Columbia River, Home Valley, WA to Hood River, OR		
14-Jul-22	1130-1730	Gorge Downwind Champs	Columbia River, Home Valley, WA to Hood River, OR		
14-Jul-22	1800-2130	OCSA Sailboat Race -SYSCO Twilight Series	Columbia River between I-5 and I-205 Bridges, Portland, OR		
15-Jul-22	1130-1730	Gorge Downwind Champs	Columbia River, Home Valley, WA to Hood River, OR		
16-Jul-22	2000-0000	Cathlamet Bald Eagle Days	Birnie Creek in Cathlamet,WA		
16-Jul-22	1130-1730	Gorge Downwind Champs	Columbia River, Home Valley, WA to Hood River, OR		
16-Jul-22	1230-1630	OCSA Sailboat Race -SYSCO Match Race	Columbia River between I-5 and I-205 Bridges, Portland, OR		
17-Jul-22	1630-2130	OCSA Sailboat Race -PYC Family Night BC Race	Columbia River between I-5 and I-205 Bridges, Portland, OR		
17-Jul-22	0730-1730	Clearwater River Rush Jet Boat Race	Clearwater River, Orofino to Kamiah, ID		
18-Jul-22	0730-1730	Clearwater River Rush Jet Boat Race	Clearwater River, Orofino to Kamiah, ID		
18-Jul-22	1615-2100	OCSA Sailboat Race -ISC Monday Night Racing Series	Columbia River between I-5 and I-205 Bridges, Portland, OR		
19-Jul-22	0730-1730	Clearwater River Rush Jet Boat Race	Clearwater River, Orofino to Kamiah, ID		

19-Jul-22	0830-1730	Columbia Gorge Racing Association US Optimist National Championship	Columbia River Between Cascade Locks, OR and Stevenson, WA
		·	Columbia River between I-5 and I-205
19-Jul-22	1800-2130	OCSA Sailboat Race -SYSCO Twilight Series	Bridges, Portland, OR
20-Jul-22	0830-1730	Columbia Gorge Racing Association US Optimist	Columbia River Between Cascade Locks, OR
20-301-22	0830-1730	National Championship	and Stevenson, WA
21-Jul-22	1800-2130	OCSA Sailboat Race -SYSCO Twilight Series	Columbia River between I-5 and I-205
21 Jul 22	1000 2130	Ocsa sumbat Nace 313co (Willight Series	Bridges, Portland, OR
21-Jul-22	0830-1730	Columbia Gorge Racing Association US Optimist	Columbia River Between Cascade Locks, OR
21 301 22	0030 1730	National Championship	and Stevenson, WA
22-Jul-22	0830-1730	Columbia Gorge Racing Association US Optimist	Columbia River Between Cascade Locks, OR
	0000 1700	National Championship	and Stevenson, WA
23-Jul-22	0830-1730	Columbia Gorge Racing Association US Optimist	Columbia River Between Cascade Locks, OR
		National Championship	and Stevenson, WA
23-Jul-22	1000-1030	Garibaldi Days Fireworks	Tillamook Bay, Garibaldi, OR
24-Jul-22	1630-2130	OCSA Sailboat Race -RCYC Pirates Beer Can Race	Columbia River between I-5 and I-205
2 : 30: 22	1000 2100		Bridges, Portland, OR
24-Jul-22	0830-1730	Columbia Gorge Racing Association US Optimist	Columbia River Between Cascade Locks, OR
2 : 34: 22	0000 1700	National Championship	and Stevenson, WA
25-Jul-22	1615-2100	OCSA Sailboat Race -ISC Monday Night Racing	Columbia River between I-5 and I-205
		Series	Bridges, Portland, OR
26-Jul-22	1800-2130	OCSA Sailboat Race -SYSCO Soaker	Columbia River between I-5 and I-205
			Bridges, Portland, OR
26-Jul-22	1800-2130	OCSA Sailboat Race -SYSCO Twilight Series	Columbia River between I-5 and I-205
			Bridges, Portland, OR
27-Jul-22	1300-1630	OCSA Sailboat Race -Ranger 20 Nationals	Columbia River between I-5 and I-205
		5	Bridges, Portland, OR
28-Jul-22	1300-1630	OCSA Sailboat Race -Ranger 20 Nationals	Columbia River between I-5 and I-205
	ļ	5	Bridges, Portland, OR
28-Jul-22	1800-2130	OCSA Sailboat Race -SYSCO Twilight Series	Columbia River between I-5 and I-205
00 1 100	2522 1222	7.00.14	Bridges, Portland, OR
29-Jul-22	0530-1830	Tri City Water Follies Columbia Cup	Columbia River, Kennewick, WA
29-Jul-22	1300-1630	OCSA Sailboat Race -Ranger 20 Nationals	Columbia River between I-5 and I-205
20 1 1 22	0530 4030	Ti Ci Mata Fallia Cal adda C	Bridges, Portland, OR
30-Jul-22	0530-1830	Tri City Water Follies Columbia Cup	Columbia River, Kennewick, WA
30-Jul-22	1300-1630	OCSA Sailboat Race -Ranger 20 Nationals	Columbia River between I-5 and I-205
24 1.1 22	0520 4020	Tri City Water Fallies Columbia Com	Bridges, Portland, OR
31-Jul-22	0530-1830	Tri City Water Follies Columbia Cup	Columbia River, Kennewick, WA
31-Jul-22	1300-1630	OCSA Sailboat Race -Ranger 20 Nationals	Columbia River between I-5 and I-205
	-	OCSA Sailboat Race -ISC Monday Night Racing	Bridges, Portland, OR Columbia River between I-5 and I-205
1-Aug-22	1615-2100	Series	Bridges, Portland, OR
		Series	Columbia River between I-5 and I-205
2-Aug-22	1800-2130	OCSA Sailboat Race -SYSCO Twilight Series	
			Bridges, Portland, OR Columbia River between I-5 and I-205
4-Aug-22	1800-2130	OCSA Sailboat Race -SYSCO Twilight Series	Bridges, Portland, OR
			briuges, Portialia, OK

6-Aug-22	1330-1630	OCSA Sailboat Race -SYSCO Dual Bridge Duel & CC Cup	Columbia River between I-5 and I-205 Bridges, Portland, OR
6-Aug-22	1000-1700	Smoke on the Water Hobie Cat Regatta	Columbia River, Skamokawa, WA
6-Aug-22	0730-1630	Paddle for Life	Lake River, Ridgefield, WA
6-Aug-22	1000-1700	Double Damned 2022	Columbia River between Cascade Locks and The Dalles
7-Aug-22	1000-1700	Smoke on the Water Hobie Cat Regatta	Columbia River, Skamokawa, WA
8-Aug-22	1615-2100	OCSA Sailboat Race -ISC Monday Night Racing Series	Columbia River between I-5 and I-205 Bridges, Portland, OR
9-Aug-22	1800-2130	OCSA Sailboat Race -SYSCO Twilight Series	Columbia River between I-5 and I-205 Bridges, Portland, OR
11-Aug-22	1800-2130	OCSA Sailboat Race -SYSCO Twilight Series	Columbia River between I-5 and I-205 Bridges, Portland, OR
13-Aug-22	1030-1330	Swim the Snake	Snake River, within Lake Bryon near Lyons Ferry State Park, WA
13-Aug-22	1045-1600	OCSA Sailboat Race -SYSCO St. Helens Race & Cruise	Columbia River between I-5 and I-205 Bridges, Portland, OR
14-Aug-22	1045-1600	OCSA Sailboat Race -SYSCO St. Helens Race & Cruise	Columbia River between I-5 and I-205 Bridges, Portland, OR
15-Aug-22	1615-2100	OCSA Sailboat Race -ISC Monday Night Racing Series	Columbia River between I-5 and I-205 Bridges, Portland, OR
16-Aug-22	1800-2130	OCSA Sailboat Race -SYSCO Twilight Series	Columbia River between I-5 and I-205 Bridges, Portland, OR
18-Aug-22	1800-2130	OCSA Sailboat Race -SYSCO Twilight Series	Columbia River between I-5 and I-205 Bridges, Portland, OR
20-Aug-22	1630-2100	OCSA Sailboat Race -CYC Sport Your Colors BC Race	Columbia River between I-5 and I-205 Bridges, Portland, OR
22-Aug-22	1615-2100	OCSA Sailboat Race -ISC Monday Night Racing Series	Columbia River between I-5 and I-205 Bridges, Portland, OR
23-Aug-22	1800-2130	OCSA Sailboat Race -SYSCO Twilight Series	Columbia River between I-5 and I-205 Bridges, Portland, OR
25-Aug-22	1800-2130	OCSA Sailboat Race -SYSCO Twilight Series	Columbia River between I-5 and I-205 Bridges, Portland, OR
28-Aug-22	1630-2100	OCSA Sailboat Race -Cal 20 Mardi Gras BC Race	Columbia River between I-5 and I-205 Bridges, Portland, OR
29-Aug-22	1615-2100	OCSA Sailboat Race -ISC Monday Night Racing Series	Columbia River between I-5 and I-205 Bridges, Portland, OR
30-Aug-22	1800-2130	OCSA Sailboat Race -SYSCO Twilight Series	Columbia River between I-5 and I-205 Bridges, Portland, OR
1-Sep-22	1800-2130	OCSA Sailboat Race -SYSCO Twilight Series	Columbia River between I-5 and I-205 Bridges, Portland, OR
5-Sep-22	1615-2100	OCSA Sailboat Race -ISC Monday Night Racing Series	Columbia River between I-5 and I-205 Bridges, Portland, OR
10-Sep-22	1130-2100	OCSA Sailboat Race -RCYC Long Distance Race	Columbia River between Martin Slough, Woodland, WA and Willamette River, Portland OR

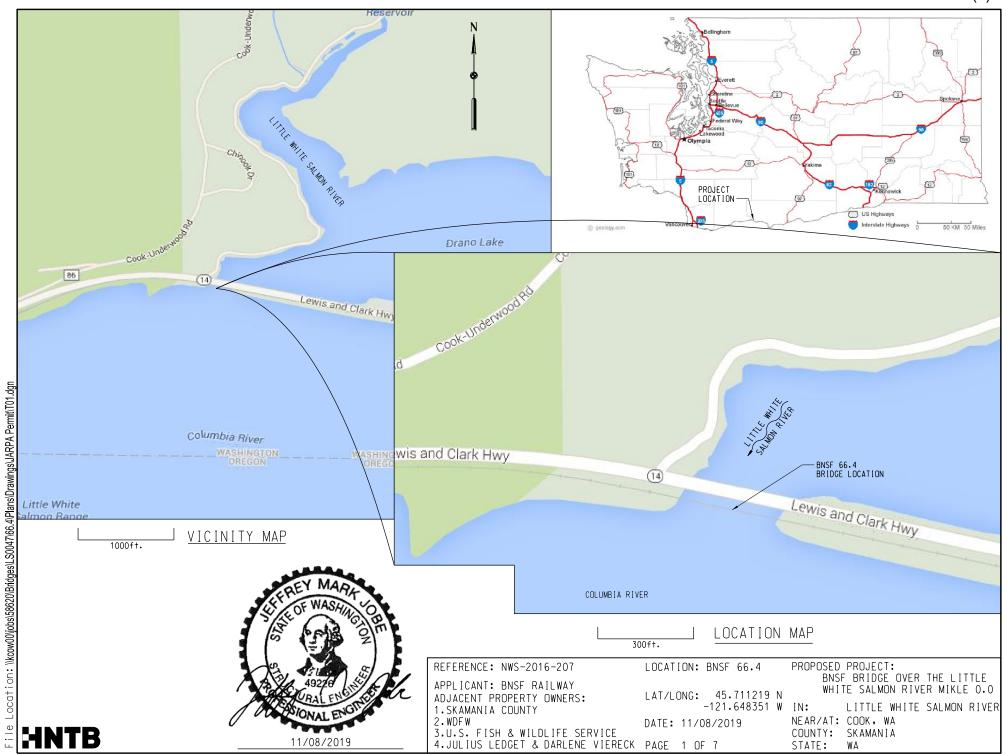
			Columbia River between Martin Slough,	
11-Sep-22	0900-2100	OCSA Sailboat Race -RCYC Long Distance Race	Woodland, WA and Willamette River,	
			Portland OR	
12-Sep-22	1615-2100	OCSA Sailboat Race -ISC Monday Night Racing	Columbia River between I-5 and I-205	
12-3ep-22	1013-2100	Series	Bridges, Portland, OR	
17-Sep-22	8:00- 1800	LOCR Willamette River Regatta	Lake Oswego, OR	
17-Sep-22	1230-1630	OCSA Sailboat Race -SYSCO One-Design Races	Columbia River between I-5 and I-205	
17-3ep-22	1230-1030	OCSA Saliboat Nace -313CO Olie-Desigli Naces	Bridges, Portland, OR	
18-Sep-22	8:00- 1800	LOCR Willamette River Regatta	Lake Oswego, OR	
10 Can 22	1220 1620	20 1620 OCCA Cailly and Dana CVC Cailling and Country Coning	Columbia River between I-5 and I-205	
18-Sep-22	1230-1630	OCSA Sailboat Race -CYC Sailing on Sunday Series	Bridges, Portland, OR	

SECTOR PUGET SOUND MARINE EVENTS				
EVENT DATE	TIME	EVENT NAME	EVENT LOCATION	
6-Jul-22	1900-2130	Windseekers Series 2022	Commencement Bay, Dalco Passage	
6-Jul-22	1800-2030	Wednesday Race Series	Port Townsend Bay	
6-Jul-22		Victoria to Maui International Yacht Race	Victoria, BC to HI	
6-Jul-22	1700-2100	CYC Seattle Wednesday night evening series	Lake Washington	
6-Jul-22	1700-2100	CYC Sound Wednesday Sound Evening Series	West, North and South of Shilshole Marina	
7-Jul-22	1900-2030	Elliot Bay Marina	Elliot Bay	
7-Jul-22	1800-2100	TTPYC Thursday Night Sailboat Race Series	Vashon Island from Three Tree Point south	
	1000 2100	THE Thursday Wight Sambout Nace Series	to Des Moines marina and Redondo	
7-Jul-22	1730-1930	Sequim Bay Duck Dodge Race	Sequim Bay, WA	
7-Jul-22	1700-2100	CYC Sound Thursday Evening Series	West, North and South of Shilshole Marina	
8-Jul-22	1800-2100	Milltown Sailing Assn - Log Dodge Series Sailboat	Port Gardner, Possession Sound, Snohomish	
8-Jui-22	1800-2100	Race	River entrance	
8-Jul-22	1800-2030	Friday Sailing Series	Port Townsend Bay	
8-Jul-22	1800-2000	Spring Friday Night Series	Sinclair Inlet	
8-Jul-22	1900-2130	Take Your Time Friday's Race Series	Shilshole Bay	
9-Jul-22	1000-1300	Sound Rowers' Budd Inlet Race	Budd Inlet from Swantown Marina	
9-Jul-22	2200-2230	Mercer Island Summer Celebration Fireworks	Fireworks shot from a barge offshore of	
3 Jul 22	2200 2230	2022	Luther Burbank Park.	
9-Jul-22	1100-1700	Three Bouy Fiasco Race	Shilshole Bay	
11-Jul-22	1830-2000	Ballard Cup Series II	Shilshole Bay	
12-Jul-22	1800-2200	Duck Dodge Lake Union	Lake Union	
12-Jul-22	1700-2100	CYC Seattle Lake Tuesday Evening Series	Lake Washington	
13-Jul-22	1900-2130	Windseekers Series 2022	Commencement Bay, Dalco Passage	
13-Jul-22	1800-2030	Wednesday Race Series	Port Townsend Bay	
13-Jul-22	1700-2100	CYC Seattle Wednesday night evening series	Lake Washington	
13-Jul-22	1700-2100	CYC Sound Wednesday Sound Evening Series	West, North and South of Shilshole Marina	
14-Jul-22	1900-2030	Elliot Bay Marina	Elliot Bay	

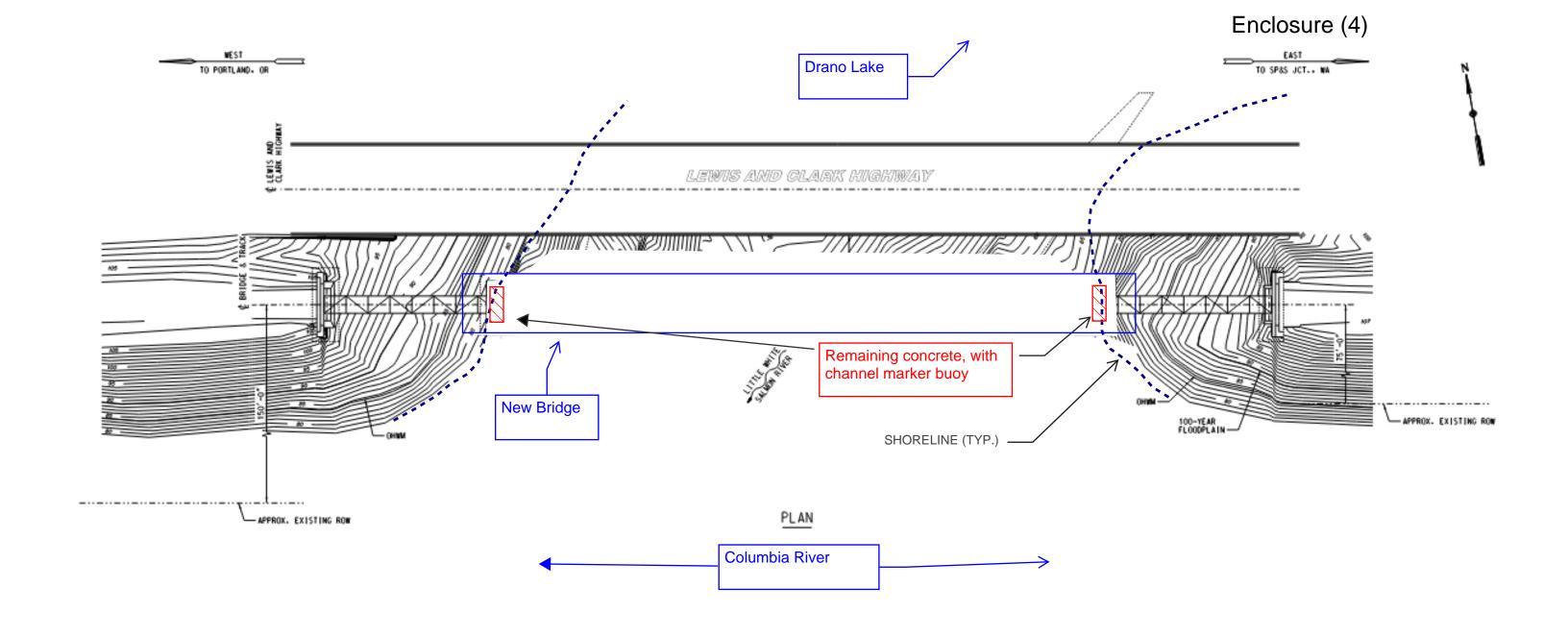
	T		
14-Jul-22	1800-2100	TTPYC Thursday Night Sailboat Race Series	Vashon Island from Three Tree Point south to Des Moines marina and Redondo
14-Jul-22	1730-1930	Sequim Bay Duck Dodge Race	Sequim Bay, WA
14-Jul-22	1700-2100	CYC Sound Thursday Evening Series	West, North and South of Shilshole Marina
15-Jul-22	1800-2100	Milltown Sailing Assn - Log Dodge Series Sailboat Race	Port Gardner, Possession Sound, Snohomish River entrance
15-Jul-22	1800-2030	Friday Sailing Series	Port Townsend Bay
15-Jul-22	1800-2000	Spring Friday Night Series	Sinclair Inlet
15-Jul-22	0800-1600	Salish 100	Swantown Marina (Olympia) to Henderson Inlet
15-Jul-22	1900-2130	Take Your Time Friday's Race Series	Shilshole Bay
15-Jul-22	1900-2400	Moonlight Madness	Shilshole Bay, Duwamish Head, Blakely Rock, and Skiff Point
16-Jul-22	1400-1730	Three Hour Tour Series 2	Commencement Bay, Dalco Passage
16-Jul-22	0800-1600	Salish 100	Henderson Inlet to Penrose State Park (Carr Inlet)
16-Jul-22	2200-2230	Quileute Days	La Push, WA (beach)
16-Jul-22	1000-1800	Women at the Helm	Shilshole Bay across the sound to Skiff Point, up to Port Madison, across to Spring Beach and back to Shilshole Bay.
16-Jul-22	1000-1800	SBYC Saturday Race Series	Sequim Bay, WA
17-Jul-22	0800-1600	Salish 100	Penrose State Park to Gig Harbor
18-Jul-22	0800-1600	Salish 100	Gig Harbor to Blake Island State Park
18-Jul-22	1830-2000	Ballard Cup Series II	Shilshole Bay
19-Jul-22	0800-1600	Salish 100	Blake Island State Park to Appletree Cove
19-Jul-22	1800-2200	Duck Dodge Lake Union	Lake Union
19-Jul-22	1700-2100	CYC Seattle Lake Tuesday Evening Series	Lake Washington
20-Jul-22	1900-2130	Windseekers Series 2022	Commencement Bay, Dalco Passage
20-Jul-22	1800-2030	Wednesday Race Series	Port Townsend Bay
20-Jul-22	0800-1600	Salish 100	Appletree Cove to Port Ludlow
20-Jul-22	1700-2100	CYC Seattle Wednesday night evening series	Lake Washington
20-Jul-22	1700-2100	CYC Sound Wednesday Sound Evening Series	West, North and South of Shilshole Marina
21-Jul-22	1900-2030	Elliot Bay Marina	Elliot Bay
21-Jul-22	0800-1600	Salish 100	Port Ludlow to Point Hudson Marina, Port Townsend (via Port Townsend ship canal)
21-Jul-22	1800-2100	TTPYC Thursday Night Sailboat Race Series	Vashon Island from Three Tree Point south to Des Moines marina and Redondo
21-Jul-22	1730-1930	Sequim Bay Duck Dodge Race	Sequim Bay, WA
21-Jul-22	1700-2100	CYC Sound Thursday Evening Series	West, North and South of Shilshole Marina
22-Jul-22	1800-2100	Milltown Sailing Assn - Log Dodge Series Sailboat Race	·
		Nace	הועכו כוונומוונט

22-Jul-22	1800-2030	Friday Sailing Series	Port Townsend Bay
22-Jul-22 22-Jul-22	1900-2030	Take Your Time Friday's Race Series	Shilshole Bay
23-Jul-22	0900-2130	2022 BBOP Classic OC race	Bellingham Bay
25-Jul-22	0900-1600	2022 BBOP Classic OC race	
23-Jul-22	1100-1600	100-1600 Lido 14 and Cal 20 Regatta	Quartermaster Harbor, Dalco Passage and
			Commencement Bay
24-Jul-22	1100-1600	Lido 14 and Cal 20 Regatta	Quartermaster Harbor, Dalco Passage and
			Commencement Bay
7/24/22 -	411.5		East Saanich BC - John's Island - Orcas Island
7/31/22	All Day	Awaken the Canoes 2022	Sucia Island, Jones Island, Waldron Island
		2 11 12 2 1 11 12	· · · · · · · · · · · · · · · · · · ·
25-Jul-22	1800-2030	Ballard Cup Series III (3)	Shilshole Bay
26-Jul-22	1800-2200	Duck Dodge Lake Union	Lake Union
26-Jul-22	1700-2100	CYC Seattle Lake Tuesday Evening Series	Lake Washington
27-Jul-22	1900-2130	Windseekers Series 2022	Commencement Bay, Dalco Passage
27-Jul-22	1800-2030	Wednesday Race Series	Port Townsend Bay
27-Jul-22	1700-2100	CYC Seattle Wednesday night evening series	Lake Washington
27-Jul-22	1700-2100	CYC Sound Wednesday Sound Evening Series	West, North and South of Shilshole Marina
28-Jul-22	1900-2030	Elliot Bay Marina	Elliot Bay
28-Jul-22	1800-2100	TTPYC Thursday Night Sailboat Race Series	Vashon Island from Three Tree Point south to Des Moines marina and Redondo
28-Jul-22	1730-1930	Sequim Bay Duck Dodge Race	Sequim Bay, WA
28-Jul-22	1700-2100	CYC Sound Thursday Evening Series	West, North and South of Shilshole Marina
20 1 1 22	4000 2400	Milltown Sailing Assn - Log Dodge Series Sailboat	Port Gardner, Possession Sound, Snohomish
29-Jul-22	1800-2100	Race	River entrance
29-Jul-22	2200-2230	Whaling Days (Fireworks)	Dyes Inlet, Silverdale, WA
29-Jul-22	1900-2130	Take Your Time Friday's Race Series	Shilshole Bay
30-Jul-22	1000-TBD	Bush Point Race	Port Townsend Bay
30-Jul-22	1000-1800	SBYC Saturday Race Series	Sequim Bay, WA
30-Jul-22	0900-1600	Da Grind 2022	Alki Beach to Blake Island, back
31-Jul-22	1030-1400	Wanda Fuca Challenge	Strait of Juan de Fuca
		J	

Enclosure (4)



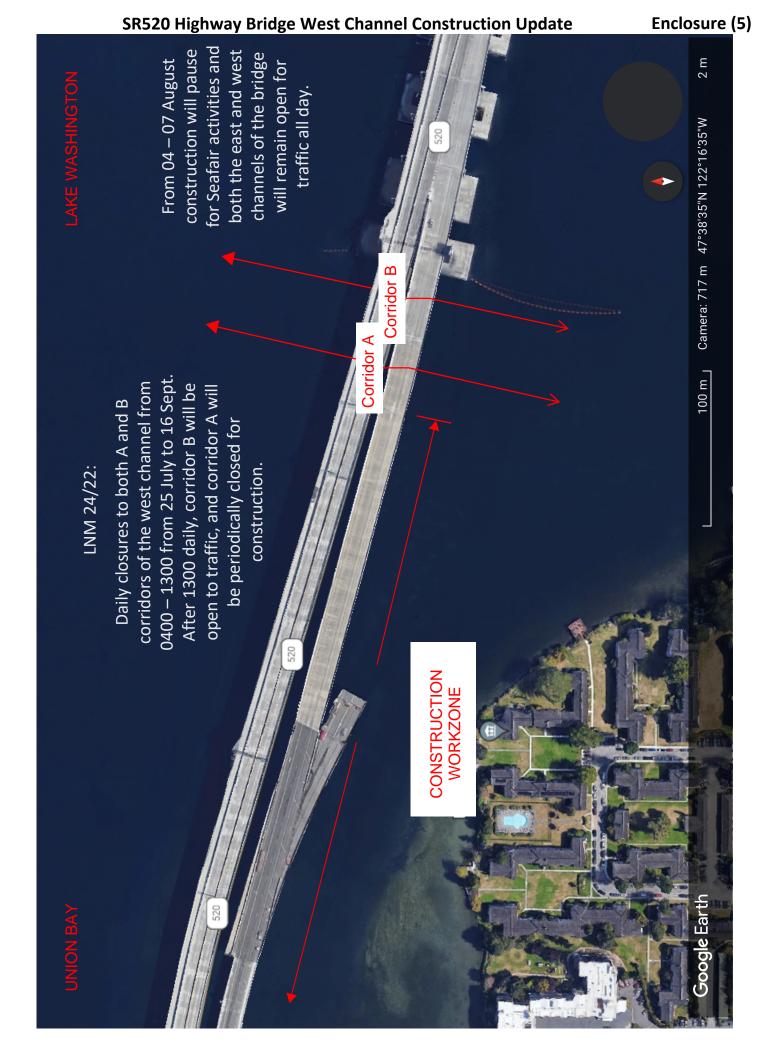
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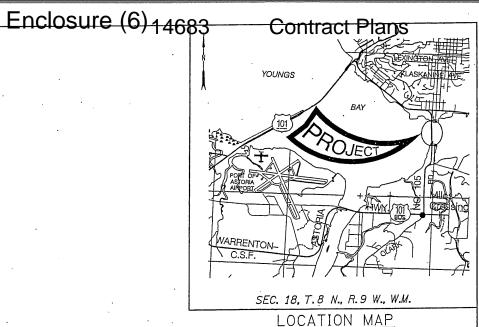


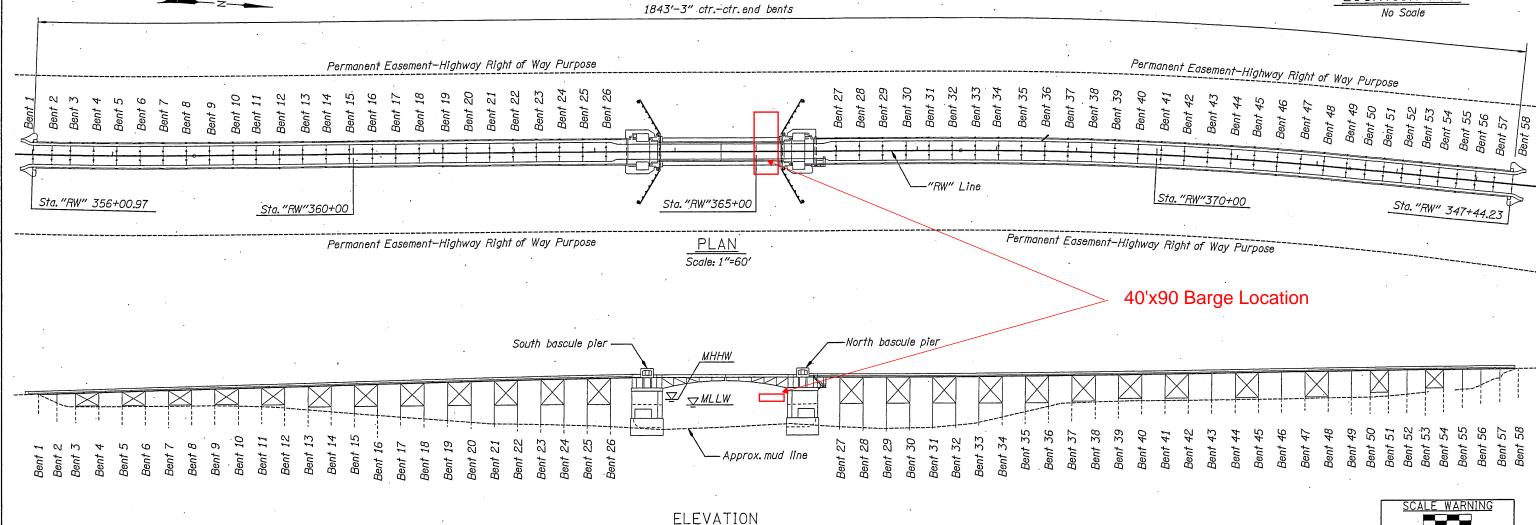


Bent 3 Bent 4 Bent 5	Bent 6 Bent 7 Bent 8 Bent 9 N Bent 10 Bent 11 Bent 12	Bent 14 Bent 15 Bent 16 Bent 17 Bent 17
	Z	
•		
•		·
owest Tide	-2.92' (June 23, 1986) -3	.64′ (Jan. 28, 1979)
LLW		.21′
LW	1.20'	.38′
ΓL	4.18'	.52'
	7.75′ &	.15′
<u>-</u> ЧНW :		.82'
ghest Tide		2.58' (Jan. 27, 1983)
		tion ID #9439040
•	Tide Level Data	
-		Tide Level Data

- 1. Elevations shown on these plans are based on North American Vertical Datum, 1988 (NAVD88).
- 2. Tide elevations are provided for information only and are shown based on data from the nearest NOAA Stations. Station ID #9439011 is located in Hammond, Oregon approximately 6 miles away. Station ID# 9439040 is located in Astoria, Oregon approximately 7 miles away. Contractor is responsible for planning work at the site around existing tidal fluxuations.

Old Young's Bay Bridge





OBEC CAD Drawing reissued Feb. 2014 ACCOMPANIED BY DWGS. dwgs. 92300-92313.

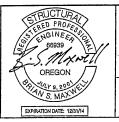
REVISION

DATE

02/14

93364-93366

Scott McMahon



OREGON DEPARTMENT OF TRANSPORTATION **®** BergerABAM

STRUCTURE NO. 00330 DATE February 2014 CALC. BOOK 6224

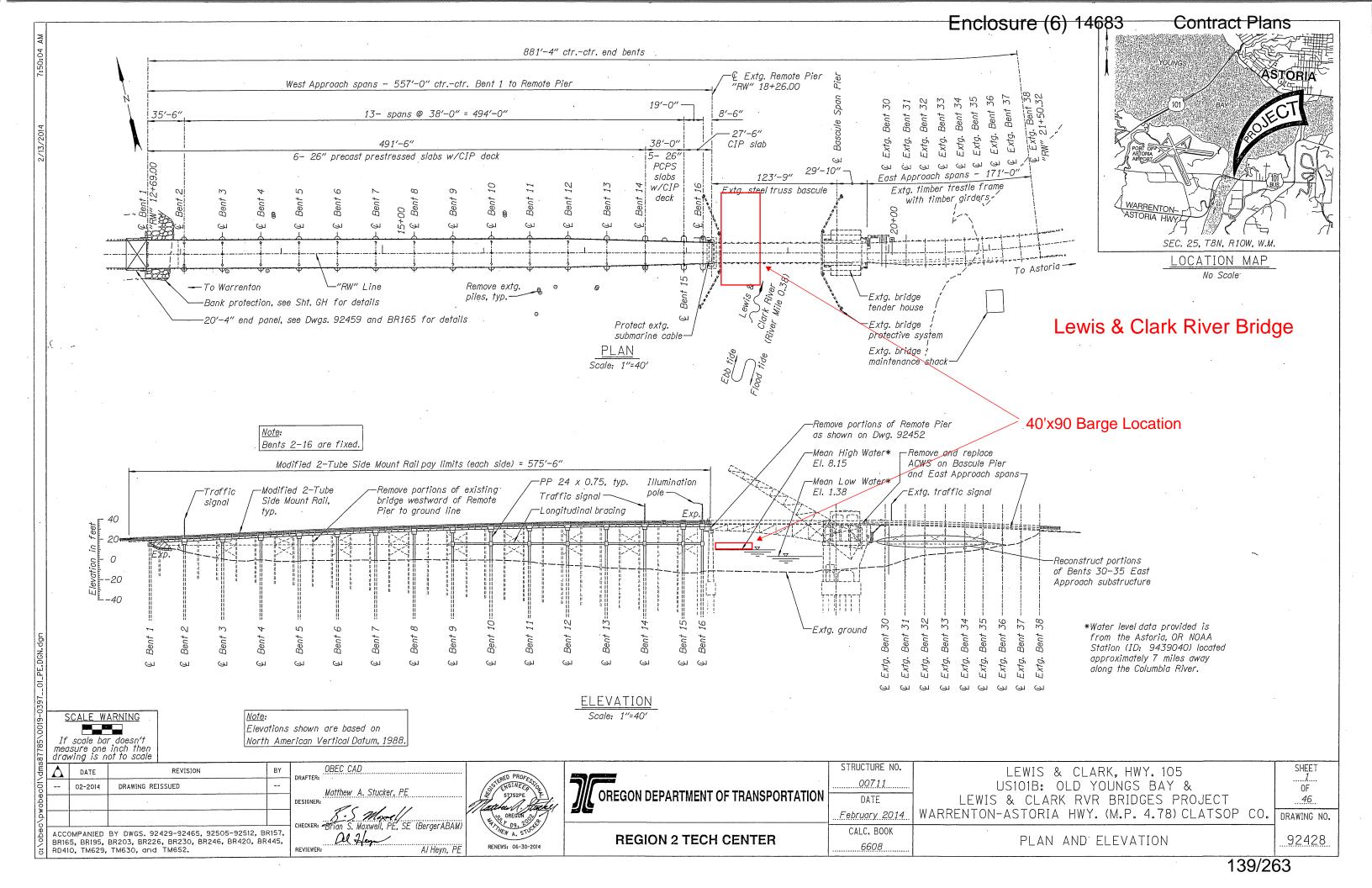
YOUNGS BAY, HWY 105 (OLD YOUNGS BAY)
US101 (BUS.): OLD YOUNGS BAY &
LEWIS & CLARK RIVER BRIDGES SEC.
WARRENTON-ASTORIA HWY. (M.P. 6.89) CLATSOP CO.

SHEET DRAWING NO.

92299

PLAN & ELEVATION

If scale bar doesn't measure one inch then drawing is not to scale







OCEAN RESEARCH EQUIPMENT IN WATER

United States West Coast July 1st - October 15th, 2022

SAILDRONE, INC. will operate two Uncrewed Surface Vehicles called "saildrones" for oceanographic and fisheries research, in the waters adjacent the coastline stretching from Cape Flattery, WA to San Francisco, CA, from July through October 2022. They will be launched from Newport, OR and recovered in the vicinity of San Francisco Bay, CA.

For more about this year's fisheries survey, please visit https://www.fisheries.noaa.gov/about/fisheries-resources-division-southwest-fisheries-science-center

Vessels are requested to transit the area with caution, and remain greater than 500 meters away from the research equipment.

Saildrones are wind powered Uncrewed Surface Vehicles that carry important oceanographic and fisheries acoustics research instrumentation and are controlled from shore through satellite communications.

Color: Orange

• Light: white all-round light

Radar Reflector: Yes

Notation: "Saildrone"

Length: 23 ft & Width: 2 ft

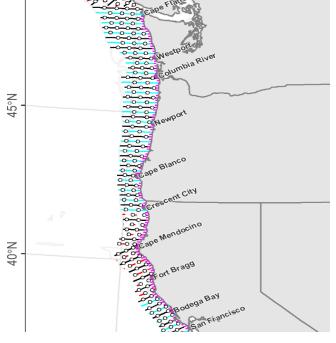
• Height: 16 ft above water line

Draft: 6 ft, Avg. speed: 1.5 kts

GPS / AIS : Yes



SAILDRONE MISSION CONTROL (510) 722-6070 missioncontrol@saildrone.com



SCIENCE CONTACTS

David Demer (NOAA) Kevin Stierhoff (NOAA)

858-864-4112 808-225-0106

david.demer@noaa.gov kevin.stierhoff@noaa.gov