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Ohio River Navigation Charts

Foster, Kentucky, to New Martinsville, West Virginia

U.S. Army Corps
Of Engineers
Huntington District

January 2014



BUILDING STRONG®

U.S. COAST GUARD INFORMATION

The following information is furnished for the guidance and assistance of those persons required by law to report to, or who otherwise desire to contact, United States Coast Guard (USCG) officials. USCG units are under the operational and administrative control of:

Eighth USCG District	Tel - (504) 589-6625	24 Hour Command Center
Hale Boggs Federal Building	Tel - (504) 589-2994	Aids to Navigation Branch
501 Magazine Street	Tel - (504) 589-2965	Bridge Branch
New Orleans, LA 70130-3396		

Commanding Officer	Tel - (502) 799-5400	
USCG Sector Ohio Valley (SOHV)	Fax - (502) 779-5402	
Romano L. Mazzoli Federal Building, Room 4090		
600 Dr. Martin Luther King, Jr. Place		
Louisville, KY 40202-2230		

USCG Marine Safety Detachment	Tel - (513) 921-9033	
USCG Marine Safety Office		
3653 River Road		
Cincinnati, OH 45204-1095		

Commanding Officer	Tel - (304) 733-0198	
USCG Marine Safety Unit		
95 Peyton Street		
Barboursville, WV 25504		

Commanding Officer	Tel - (270) 442-1621	
USCG Marine Safety Unit		
225 Tully Street		
Paducah, KY 42003		

After duty hours and on non-duty days, marine accidents and deficiencies in aids to navigation may be reported to the following:

Commander	24 Hour Command Center
USCG Sector Ohio Valley (SOHV)	Tel - (502) 779-5422
Romano Mazzoli Federal Building, Room 421	Fax - (502) 779-5402
600 Dr. Martin Luther King, Jr. Place	Tel - (800) 253-7565
Louisville, KY 40202-2230	

**Report oil or chemical spills To the National Response Center (Toll-free) 1-800-424-8802
or to the nearest USCG Marine Safety Office at the numbers listed above.**

OHIO RIVER NAVIGATION CHARTS

HUNTINGTON DISTRICT
FOSTER, KY TO NEW MARTISVILLE, WV
REVISED January 2014

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THESE CHARTS INCLUDE KNOWN NAVIGATIONAL FEATURES, AVAILABLE DATA, AND INFORMATION AS OF THE DATE SHOWN ABOVE. MAJOR CHANGES ARE PUBLISHED IN “NOTICE TO NAVIGATION INTERESTS”. CHART REVISIONS ARE ANTICIPATED AT TWO-YEAR INTERVALS. ANY INFORMATION CONCERNING CHANGES, CORRECTIONS, OR ADDITIONS TO THIS CHART BOOK SHOULD BE ADDRESSED TO:

U.S. ARMY CORPS OF ENGINEERS
CELRH-OR-TW
502 EIGHTH STEET
HUNTINGTON, WV 25701

PERMITS - JURISDICTION

In the administration of laws enacted by Congress for the protection and preservation of navigation and the navigable waters of the United States, the U.S. Army Corps of Engineers exercises jurisdiction over the Ohio River and several of its tributary streams. Work or structures in, under, or over the Ohio River or any navigable tributary, between the limits of the ordinary high water lines on both banks of the stream require prior authorization. Inquiries regarding permits for such work or structures should be addressed to:

Chief, Regulatory Branch
 U.S. Army Engineer District, Huntington
 Attn: CELRH-RD
 502 Eighth Street
 Huntington, WV 25701-2070

Inquires may be made by telephone.

For Kentucky and Ohio:
 (304) 399-5210

For West Virginia:
 (304) 399-5710

VERTICAL CLEARANCE

Vertical clearances under bridges and aerial crossings are shown on their respective charts at normal pool stage and at 1913 and 1937 high water (H.W.) stages.

Existing clearances may be determined at open river stages, with reasonable accuracy, by the method outlined in "EXAMPLE" below:

EXAMPLE: B&O Railroad Bridge, Parkersburg, WV

CHART 170

(All Clearances are in Feet)

Parkersburg Gage:

1913 H.W. Reading	59.0
Existing Reading	48.8
Difference	10.2

B&O Railroad Bridge:

1913 H.W. Clearance	31.7
Existing Clearance	41.9

H.W. READINGS

Upper Gage Readings <i>(All Readings are in Feet)</i>	
<i>*1913, **1937</i>	
Willow Island Dam	*39.00
Marietta, OH	*59.63
Parkersburg, WV	*59.00
Belleville Dam	*40.00
Racine Dam	*44.50
Mason, WV ~ Pomeroy, OH	*65.80
Point Pleasant, WV	**62.72
Robert C. Byrd Dam	**46.80
Old Dam 28	**69.37
Ashland, KY	**74.00
Greenup Dam	**47.30
Portsmouth, OH	**74.20
Maysville, KY	**75.30
Capt. Anthony Meldahl Dam	**46.80

OHIO RIVER NAVIGATION CHARTS

Revised January 2014

NAVIGATION CHARTS AND NOTICES

Navigation charts for the OHIO RIVER, within the limits of the HUNTINGTON DISTRICT, are available on our website at:

www.lrh.usace.army.mil/missions/navigation for viewing and printing. Spiral-bound books are also available for purchase on the U.S. Government Printing Office website:
<http://bookstore.gpo.gov>.

Notice to Navigation Interests, containing data on channel conditions and location of dredges, are issued as occasions demand and may be viewed on our website at:

www.lrh.usace.army.mil/missions/navigation.

Requests to be placed on the Notice to Navigation Interests email mailing list may be made on the navigation website listed above. Requests to be added to the postal mailing list may be obtained by writing to:

U.S. Army Corps of Engineers
Attn: CELRH-OR-TW
502 Eighth Street
Huntington, WV 25701-2070

MILE POINTS

Mile points are shown on the charts at one mile intervals beginning with Mile 438.0 at Foster, KY.

Charts of the Ohio River are as follows:

PITTSBURGH DISTRICT: MILE 000.0 – 127.2

HUNTINGTON DISTRICT: MILE 127.2 – 438.0

LOUISVILLE DISTRICT: MILE 438.0 – 981.0

BUOYS

Buoys used to mark channels in the Mississippi River System conform to the standard lateral system of buoys on the Western Rivers of the United States. Generally, the unlighted buoys in the Ohio River are equipped with radar reflectors. All buoys are equipped with reflective material. Buoys on the left descending side of the channel reflect red. Buoys on the right descending side of the channel reflect green.

Buoys are set to mark maximum navigation channel available considering channel alignment, the prevailing river stage, and obstructions. Due to ever-changing environmental conditions, the location and number of buoys on-site do not necessarily coincide with these charts.

The locations of printed buoys are approximate. The height of the highest fixed points Buoys should always be given as wide a berth in passing as possible consistent with the length and width of vessel or tow and width of the bend or crossing.

Buoys should always be used with caution. They may be carried off position by high water, accumulation of drift, ice, or sunk by collision or other causes. When carried off position, destroyed, or removed to prevent loss, buoys are replaced at the earliest opportunity.

Navigation lights and daybeacons are also shown in approximate locations. For additional information on lights, daymarks, daybeacons, and buoys, see the U.S. Coast Guard Light List, COMDTINST M16502, current edition.

FEDERAL MOORING BUOYS

Federal mooring buoys are for emergency use only, except where noted. These buoys shall not be used for recreational use or fleeting operations. Vessels using emergency buoys shall contact the nearest downstream lock upon mooring and again after departure.

DAMS

On the various parts of the locks and dams are shown in feet above the zero of the pass sill gage. Exceptions are noted on pages facing the page containing the dam to which they apply.

WARNING:
TO PLEASURE BOATERS AND FISHERMAN
WHO NAVIGATE ON THE OHIO RIVER

Areas immediately upstream and downstream of the navigation dams in the Huntington District have been designated **Restricted Areas**. See the Legend (Sheet K) for symbols that mark Restricted and Danger Areas.

In recent years, there have been several **boating accidents and fatalities** as a result of vessels, particularly small fishing craft, operating too closely to navigation structures. Most of these accidents have occurred when boats approach too near the downstream side of a gated dam. Powerful reverse currents, commonly called **backlash**, draw boats in an upstream direction into the dam where there are capsized or smashed against the structure. Furthermore, an additional hazard exists in the vicinity of the lock discharge structures, which are located adjacent to the downstream river wall of the lock chamber. When the water in the locks is released during each locking operation, **sudden turbulent boils** are created which can capsize a boat venturing too near. This turbulence becomes more severe as the downstream pool falls to lower elevations.

On the upstream side of the dam, there is a **strong undertow** created by the flow of water through the gated section of the dam. Boats approaching too closely from the upstream side are in danger of being **lodged against the dam or capsized** by the undertow.

The nature of these river conditions emphasizes the serious danger to boaters and fishermen who operate their craft near either the upstream or downstream side of a dam. Vessel operators who enter these areas risk their lives and property and often preclude necessary gate operations of the locks and dams. Fishermen often fish in the tail waters below the dam gates because the fishing is good. They must understand, however, that fishing from a boat in these **waters can be fatal**.

To supplement the **restricted areas**, the remaining area downstream of each dam, extending to the end of the long wall has been established as a **Danger Area**. All boaters and fishermen are urged to wear **Personal Floatation Devices (PFDs)** within this area, since these waters are frequently turbulent. Vessel operators should also heed the **warning**

sirens which indicate that project personnel will be increasing flow from the dam or releasing water within the lock discharge areas. These sirens will be operated for a period of 30 seconds, after which, there will be a 3-minute delay prior to a release of water.

Navigators should become fully aware of the **Restricted and Danger Area boundaries** prior to operating their craft within the vicinity of a lock and dam facility. The **Restricted Areas** are shown in the current publication of the U.S. Army Corps of Engineers, Huntington District, "Ohio River Navigation Charts; Foster, KY to New Martinsville, WV." Navigators should also observe all **warning signs** or **marker buoys** located within the area of each locks and dam structure. The marker buoys are illustrated with reflective orange bands and waterway symbols, and black wording on the white background. Buoys with the words "**KEEP OUT**" have, as their symbol, a cross enclosed within a diamond. Buoys designated as "**DANGER DAM**" are denoted with a diamond symbol.

The **regulations** pertaining to the **Restricted Areas** are contained within the U.S. Army Corps of Engineers' "Regulations Prescribed by the Secretary of the Army for Ohio River, Mississippi River above Cairo, IL and their tributaries; Use, Administration, and Navigation" (Blue Book). These regulations are as follows:

33 CFR 207.300 "(s) Restricted Areas at Locks and Dam. All waters immediately above and below each dam, as posted by the respective District Engineers, are hereby designated as Restricted Areas. No vessel or other floating craft shall enter any such Restricted Areas at any time. The limits of the restricted areas at each dam will be determined by the responsible District Engineer and marked by signs and/or flashing red lights installed in conspicuous and appropriate places."

Lockmasters will enforce adherence to these regulations, and, if required, solicit **aid from local law enforcement officers**. In the interest of the public safety, please tell other boaters or fishermen about the dangers of boating near lock and dam structures.

**REGULATIONS PRESCRIBED BY THE SECRETARY OF THE ARMY
FOR THE OHIO RIVER ABOVE CAIRO, IL AND ITS TRIBUTARIES
USE, ADMINISTRATION, AND NAVIGATION**

Section 7 of the River and Harbor Act of August 8, 1917

“That it shall be the duty of the Secretary of War to prescribe such regulations for the use, administration, and navigation of the navigable waters of the United States as in his judgment the public necessity may require for the protection of life and property, or of operations of the United States in channel improvement, covering all matters not specifically Delegated by law to some other executive department. Such regulations shall be posted, in conspicuous and appropriate places, for the information of the public; and every person and every corporation which shall violate such regulations shall be deemed guilty of a misdemeanor and on conviction thereof in any district court of the United States within whose territorial jurisdiction such offense may have been committed, shall be punished by a fine not exceeding \$500, or by imprisonment (in the case of a natural person) not exceeding six months, in the discretion of the court.” In pursuance of the law above quoted, the following regulations were prescribed to govern the use, administration, and navigation of the Ohio River above Cairo, IL and its tributaries.

Use, Administration, and Navigation

207.300 Ohio River, above Cairo, IL, and their tributaries; use, administration, and navigation.

a) Authority of Lockmasters

The lockmaster shall be charged with the immediate control and management of the lock, and of the area set aside as the lock area, including the lock approach channels. He shall see that all laws, rules, and regulations for the use of the lock and lock area are duly complied with, to which end he is authorized to

give all necessary orders and directions in accordance therewith, both to employees of the Government and to any and every person within the limits of the lock or lock area, whether navigating the lock or not. No one shall cause any movement of any vessel, boat, or other floating thing in the lock or approaches except by or under the direction of the lockmaster or his assistants. In the event of an emergency, the lockmaster may depart from these regulations as he deems necessary. The lockmasters shall also be charged with the control and management of federally constructed mooring facilities.

b) Safety Rules for Vessels Using Navigation Locks

The following safety rules are hereby prescribed for vessels in the locking process, including the act of approaching or departing a lock:

(1) Tows with flammable or hazardous cargo barges, loaded or empty

(i) Stripping barges or transferring cargo is prohibited.

(ii) All hatches on barges used to transport flammable or hazardous materials shall be closed and latched, except those barges carrying a gas-free certificate.

(iii) Spark-proof protective rubbing fenders (“possums”) shall be used.

2) All Vessels

(i) Leaking vessels may be excluded from locks until they have been repaired to the satisfaction of the Lockmaster.

(ii) Smoking, open flames, and chipping or other spark producing activities are prohibited on deck during the locking cycle.

(iv) Tow speeds shall be reduced to a rate of travel such that the tow can be stopped by checking should mechanical difficulties develop. Pilots should check with the individual lockmasters concerning prevailing conditions. It is also recommended that pilots check their ability to reverse their energies prior to beginning an approach. Engines shall not be turned off in the lock until the tow has stopped and been made fast.

(v) U.S. Coast Guard Regulations require all vessels to have on board life saving devices for prevention of drowning. All crew members of vessels required to carry work vests (life jackets) shall wear them during a lockage, except those persons in an area enclosed with a handrail or other device which would reasonably preclude the possibility of falling overboard. All deckhands handling lines during locking procedures shall wear a life jacket. Vessels not required by Coast Guard Regulations to have work vests aboard shall have at least the prescribed life saving devices, located for ready access and use if needed. The lockmaster may refuse lockage to any vessel which fails to conform to the above.

c) Reporting of Navigation Incidents

In furtherance of increased safety on waterways the following safety rules are hereby prescribed for all navigation interests:

(1) Any incident resulting in uncontrolled barges shall immediately be reported to the nearest lock. The report shall include information as to the number of loose barges, their cargo, and the time and location where they broke loose. The lockmaster or locks shall be kept informed of the Progress being made in bringing the barges under control so that he can initiate whatever actions may be warranted.

**REGULATIONS PRESCRIBED BY THE SECRETARY OF THE ARMY
FOR THE OHIO RIVER ABOVE CAIRO, IL AND ITS TRIBUTARIES
USE, ADMINISTRATION, AND NAVIGATION**

(2) Whenever barges are temporarily moored at other than commercial terminals or established fleeting areas, and their breaking away could endanger a lock, the nearest lock shall be so notified, preferably the downstream lock.

(3) Sunken or sinking barges shall be reported to the nearest lock both downstream and upstream of the location in order that other traffic passing these points may be advised of the hazards.

(4) In the event of an oil spill, notify the nearest lock downstream, specifying the time and location of the incident, type of oil, amount of spill, and what recovery or controlling measures are being employed.

(5) Any other activity on the waterways that could conceivably endanger navigation or a navigation structure shall be reported to the nearest lock.

(6) Whenever it is necessary to report an incident involving uncontrolled, sunken or sinking barges, the cargo in the barges shall be accurately

d) Precedence at Locks

(1) The vessel arriving first at a lock shall normally be first to lock through, but precedence shall be given to vessels belonging to the United States. Licensed commercial passenger vessels operating on a published schedule or regularly operating in the “for hire” trade shall have precedence over cargo tows and like craft. Commercial cargo tows shall have precedence over recreational craft, except as described in paragraph (f).

(2) Arrival posts or markers maybe established above and/or below the locks. Vessels arriving at or opposite such posts or markers will be considered as having arrived at the locks within the meaning of this paragraph. Precedence may be established visually or by radio communication. The lockmaster may prescribe such departure from the normal order of precedence as in his judgment is warranted to achieve best lock utilization.

e) Unnecessary Delay at Locks

Masters and pilots must use every precaution to prevent unnecessary delay in entering or leaving locks. Vessels failing to enter locks with reasonable promptness when signaled to do so shall lose their turn. Rearranging or switching of barges in the locks or in approaches is prohibited unless approved or directed by the lockmaster. This is not meant to curtail “jackknifing” or set-overs where normally practiced.

f) Lockage of Recreational Craft

In order to fully utilize the capacity of the lock, the lockage of recreational craft shall be expedited by locking them through with commercial craft, provided that both parties agree to joint use of the chamber. When recreational craft are locked simultaneously with commercial tows, the lockmaster will direct, whenever practicable, that the recreational craft enter the lock and depart while the tow is secured in the lock. Recreational craft will not be locked through with vessels carrying volatile cargoes or other substances likely to emit toxic or explosive vapors. If the lockage of recreational craft cannot be accomplished within the time required for three other lockage of recreational craft shall be made.

Recreational craft operators are advised that many locks have a pull chain located at each end of the lock which signals the lockmaster that lockage is desired.

g) Simultaneous Lockage of Tows with Dangerous Cargoes

Simultaneous lockage of other tows with tows carrying dangerous cargoes or containing flammable vapors normally will only be permitted when there is Agreement between the lockmaster and both vessel masters that the simultaneous lockage can be executed safely. He shall make a separate decision each time such action seems safe and appropriate, provided:

(1) The first vessel, or tow in, and the last vessel, or tow out, are secured before the other enters or leaves.

(2) Any vessel or tow carrying dangerous cargoes is not leaking. III) All masters involved have agreed to the joint use of the lock chamber.

h) Stations While Awaiting Lockage

Vessels awaiting their turn to lock shall remain sufficiently clear of the structure to allow unobstructed departure for the vessel leaving the lock. However, to the extent practicable under the prevailing conditions, vessels and tows shall position themselves so as to minimize approach time when signaled to do so.

i) Stations While Awaiting Access Through Navigable Pass

When navigable dams are up or are in the process of being raised or lowered, vessels desiring to use the pass shall wait outside the limits of the approach points unless authorized otherwise by the Lockmaster.

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j) Signals

Signals from vessels shall ordinarily be by whistle; signals from locks to vessels shall be by whistle, another sound device, or visual means.

When a whistle is used, long blasts of the whistle shall not exceed 10 seconds and short blasts of the whistle shall not exceed 3 seconds. Where a lock is not provided with a sound or visual signal installation, the lockmaster will indicate by voice or by the wave of a hand when the vessels may enter or leave the lock. Vessels must approach the locks with caution and shall not enter nor leave the lock until signaled to do so by the lockmaster.

The following lockage signals are prescribed:

1) Sound Signals by Means of a Whistle These signals apply at either a single lock or twin locks.

(i) Vessels desiring lockage shall on approaching a lock give the following signals at a distance of not more than one mile from the lock:

(a) If a single lockage only is required: One long blast of the whistle followed by one short blast.

(b) If a double lockage is required: One long blast of the whistle followed by two short blasts.

(ii) When the lock is ready for entrance, the lock will give the following signals:

(a) One long blast of the whistle indicates permission to enter the lock chamber in the case of a single lock or to enter the landward chamber in the case of twin locks.

(b) Two long blasts of the whistle indicates permission to enter the riverward chamber in the case of twin locks.

(iii) Permission to leave the locks will be indicated by the following signals given by the lock:

(a) One short blast of the whistle indicates permission to leave the lock chamber in the case of a single lock or to leave the landward chamber in the case of twin locks.

(b) Two short blasts of the whistle indicates permission to leave the riverward chamber in the case of twin locks.

(iv) Four or more short blasts of the lock whistle delivered in rapid succession will be used as a means of attracting attention, to indicate caution, and to signal danger. This signal will be used to attract the attention of the captain and crews of vessels using or approaching the lock or navigating in its vicinity and to indicate that something unusual involving danger or requiring special caution is happening or is about to take place. When this signal is given by the lock, the captains and crew of vessels in the vicinity shall immediately become on the alert to determine the reason for the signal and shall take the necessary steps to cope with the situation.

(2) Lock Signal Lights At locks where density of traffic or other local conditions make it advisable, the sound signals from the lock will be supplemented by signal lights. Flashing lights (showing a one-second flash followed by a two-second eclipse) will be located on or near each end of the land wall to control use of a single lock or of the landward lock of double locks. In addition, at double locks,

interrupted flashing lights (showing a one-second flash, a one-second eclipse and a one-second flash, followed by a three-second eclipse) will be located on or near each end of the intermediate wall to control use of the riverward lock. Navigation will be governed as follows:

Red Light – Lock cannot be made ready immediately. Vessel shall stand clear. Amber Light – Lock is being made ready. Vessels may approach but under full control. Green Light – Lock is ready for entrance. Green and Amber Lights – Lock is ready for entrance but gates cannot be recessed completely. Vessel may enter under full control and with extreme caution. III) Radio Communication VHF-FM radios, operating in the FCC authorized Maritime Band, have been installed at all operational locks. Radio contact may be made by any vessel desiring passage. Commercial tows are especially requested to make contact at least one half hour before arrival in order that the pilot may be informed of current river and traffic conditions that may affect the safe passage of his tow.

All locks monitor 156.8 MHZ (Ch. 16) and 156.65 MHZ (Ch. 13) and can work 156.65 MHZ (Ch. 13) and 156.7 MHZ (Ch. 14). Ch. 16 is the authorized call, reply and distress frequency, and locks are not permitted to work on this frequency except in an emergency involving the risk of immediate loss of life or property. Vessels may call and work Channel 13, without switching, but are cautioned that vessel to lock traffic must not interrupt or delay Bridge to Bridge traffic which has priority at all times.

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k) Rafts

Rafts to be locked through shall be moored in such manner as not to obstruct the entrance of the lock, and if to be locked in sections, shall be brought to the lock as directed by the lockmaster. After passing the lock the sections shall be reassembled at such distance beyond the lock as not to interfere with other vessels.

l) Entrance to and Exit from Locks

In case two or more boats or tows are to enter for the same lockage, their order of entry shall be determined by the lockmaster. Except as directed by the lockmaster, no boat shall pass another in the lock. In no case will boats be permitted to enter or leave the locks until directed to do so by the Lockmaster. The sides of all craft passing through any lock shall be free from projections of any kind which might injure the lock walls. All vessels shall be provided with suitable fenders, and shall be used to protect the lock and guide walls until it has cleared the lock and guide walls.

m) Mooring

(1) At Locks

(i) All vessels when in the locks shall be moored as directed by the lockmaster. Vessels shall be moored with bow and stern lines leading in opposite directions to prevent the vessel from “running” in the lock. All vessels will have one additional line available on the head of the tow for emergency use.

The pilothouse shall be attended by qualified personnel during the entire locking procedure. When the vessel is securely moored, the pilot shall not cause movement of the propellers except in emergency or unless directed by the lockmaster. Tying to lock ladders is strictly prohibited.

(2) Outside of Locks

(i) No vessels or other craft shall regularly or permanently moor in any reach of a navigation channel. The approximate centerline of such channels is marked as the sailing line on Corps of Engineers navigation charts. Nor shall any floating craft, except in an emergency, moor in any narrow or hazardous section of the waterway. Furthermore, all vessels or other craft are prohibited from regularly or permanently mooring in any section of navigable waterways which are congested with commercial facilities or traffic unless it is moored at facilities approved by the Secretary of the Army or his authorized representative. The limits of the congested areas shall be marked on Corps of Engineers navigation charts. However, the District Engineer may authorize in writing exceptions to any of the above if, in his judgment, such mooring would not adversely affect navigation and anchorage.

(ii) No vessel or other craft shall be moored to railroad tracks, to riverbanks in the vicinity of railroad tracks when such mooring threatens the safety of equipment using tracks, to telephone poles or power poles, or to bridges or similar structures used by the public.

(iii) Except in case of great emergency, no vessel or craft shall anchor over revetted banks of the river, and no floating plant other than launches and similar small craft shall land against banks protected by revetment

except at regular commercial landings. In all cases, every precaution to avoid damage to the revetment works shall be exercised. The construction of log rafts along matted or paved banks or the tying up and landing of log rafts against such banks shall be performed in such a manner as to cause no damage to the mattress work or bank paving. Generally, mattress work extends out into the river 600 feet from the low water line.

(iv) Any vessel utilizing a federally constructed mooring facility (e.g. cells, buoys, anchor rings) at the points designated on the current issue of the Corps navigation charts shall advise the lockmaster at the nearest lock that from point by the most expeditious means.

n) Draft of Vessels

No vessels shall attempt to enter a lock unless its draft is at least three inches less than the least depth of water over the guard sills or over the gates sills if there be no guard sills. Information concerning controlling depth over sills can be obtained from the lockmaster at each lock or by inquiry at the office of the district engineer of the district in which the lock is located.

o) Handling Machinery

No one but employees of the United States shall move any lock machinery except as directed by the lockmaster. Tampering or meddling with the machinery or other parts of the lock is strictly forbidden.

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p) Refuse in Locks

Placing or discharging refuse of any description into the lock, on lock walls or esplanade, canal or canal bank is prohibited.

q) Damage to Locks or Other Work

To avoid damage to plant and structures, connected with the construction or repair of locks and dams, vessels passing structures in the process of construction or repair shall reduce their speed and navigate with special caution while in the vicinity of such work. The restrictions and admonitions contained in these regulations shall not affect the liability of the owners and operators of floating craft for any damage to locks or other structures caused by the operation such craft.

r) Trespass on Lock Property

Trespass on locks or dams or other United States property pertaining to the locks and dams is strictly prohibited except in those areas specifically permitted. Parties committing any injury to the locks and dams or to any part thereof will be responsible therefore. Any person committing a willful injury to any United States property will be prosecuted. No fishing will be permitted from lock walls, guide walls, or guard walls of any lock or from any dam, except in areas designated and posted by the responsible District Engineer as fishing areas. Personnel from commercial and recreational craft will be allowed on the lock structure for legitimate business reasons; e.g., crew changes emergency phone calls, etc.

s) Restricted Areas at Locks and Dams

All water immediately above and below each dam, as posted by the respective District Engineers, are hereby designated as restricted areas. No vessel or other floating craft shall enter any such restricted area at any time. The limits of the restricted areas at each dam will be determined by the responsible District Engineer and marked by signs and/or flashing red lights installed in conspicuous and appropriate places.

t) Statistical Information

(1) Masters of vessels shall furnish to the lockmaster such statistics of passengers or cargo as may be requested.

(2) The owners or masters of vessels sunk in the navigable waters of the United States shall provide the appropriate District Engineer with a copy of the sunken vessel report furnished to the U.S. Coast Guard Marine Inspection Office in accordance with Code of Federal Regulations Title 33 Subpart 64.10-1.

u) Operations during High Water and Floods in Designated Vulnerable Areas

Vessels operating on these waters during periods when river stages exceed the level of "ordinary high water," as designated on Corps of Engineers navigation charts, shall exercise reasonable care to minimize the effect of their bow waves and propeller washes on river banks; submerged or partially submerged structures or habitations; terrestrial growth such as trees and bushes; and manmade amenities that may be present.

Vessels shall operate carefully when passing close to Levees and other flood protection works, and shall observe minimum distances from banks which may be prescribe from time to time in Notices to Navigation Interests. Pilots should exercise particular care not to direct propeller wash at river banks, levees, revetments, structures or other appurtenances subject to damage from wave action.

v) Navigation Lights for Use at All Locks and Dams

(1) At locks at all fixed dams and at locks at all movable dams when the dams are up so that there is no navigable pass through the dam, the following navigation lights will be displayed during hours of darkness:

(i) Three green lights visible through an arc of 360 degrees arranged in a vertical line on the upstream end of the river (guard) wall unless the intermediate wall extends farther upstream. In the latter case, the lights will be placed on the upstream end of the intermediate wall.

(ii) Two green lights visible through an arc of 360 degrees arranged in a vertical line on the downstream end of the river (guard) wall unless the intermediate wall extends farther downstream. In the latter case, the lights will be placed on the downstream end of the intermediate wall.

(iii) A single red light, visible through an arc of 360 degrees on each end (upstream and downstream) of the land (guide) wall.

**REGULATIONS PRESCRIBED BY THE SECRETARY OF THE ARMY
FOR THE OHIO RIVER ABOVE CAIRO, IL AND ITS TRIBUTARIES
USE, ADMINISTRATION, AND NAVIGATION**

(2) At movable dams when the dam has been lowered or partly lowered so that there is an unobstructed navigable pass through the dam, the navigation lights indicated in the following paragraphs will be displayed during hours of darkness until lock walls and weir piers are awash.

(i) Three red lights visible through an arc of 360 degrees arranged in a vertical line on the upstream end of the river (guard) wall.

(ii) Two red lights visible through an arc of 360 degrees arranged in a vertical line on the downstream end of the river (guard) wall.

(iii) A single red light visible through an arc of 360 degrees on each end (upstream and downstream) of the land (guide) wall.

(3) After lock walls and weir piers are awash they will be marked as prescribed in paragraph (x) below.

(4) If one or more bear traps or weirs are open or partially open, and may cause a set in current conditions at the upper approach to the locks, this fact will be indicated by displaying a white circular disk 5 feet in diameter, on or near the light support on the upstream end of the land (guide) wall during the hours of daylight, and will be indicated during hours of darkness by displaying a white (amber) light vertically under and 5 feet below the red light on the upstream end of the land (guide) wall.

x) Buoys at Movable Dams

(1) Whenever the river (guard) wall of the lock and any portion of the dam are awash, and until covered by a depth, the limits of the navigable pass through the dam will be marked by buoys located at the upstream and downstream ends of the river (guard) wall, and by a single buoy over the end or ends of the portion or portions of the dam adjacent to the navigable pass over which project depth is not available. A red nun-type buoy will be used for such structures located on the left-hand side (facing downstream) of the river and a green can-type buoy for such structures located on the right-hand side. Buoys will be lighted, if practicable.

(2) Where powerhouses or other substantial structures projecting considerably above the level of the lock wall are located on the river (guard) wall, a single red light located on top of one of these structures maybe used instead of river wall buoys prescribed above until these structures are awash, after which they will be marked by a buoy of appropriate type and color (red nun or green can buoy) until covered by a depth of water equal to the project depth. Buoys will be lighted, if practicable.

y) Vessels to Carry Regulations

A copy of these regulations shall be kept at all times on board each vessel regularly engaged in navigating the rivers to which these regulations apply. Copies may be obtained from any lock office or District

Engineer's office on request. Masters of such vessels are encouraged to have on board copies of current edition of appropriate navigation charts.

EFFECTIVE 31 JULY 1975

EXTRACT FROM THE RIVER AND HARBOR ACT OF 1899

SECTION 15

That it shall not be lawful to tie up or anchor vessels or other craft in navigable channels in such a manner as to prevent or obstruct the passage of other vessels or craft; or to sink, or permit or cause to be sunk, vessels or other craft in navigable channels; or to float loose timber and logs, or to float what is known as sack rafts of timber and logs in streams or channels actually navigated by steamboats in such manner as to obstruct, impede, or endanger navigation. And whenever a vessel, raft, or other craft is wrecked and sunk in a navigable channel, it shall be the duty of the owner, lessee, or operator of such sunken craft to immediately mark it with a buoy or beacon during the day and a lighted lantern at night, and to maintain such marks until the sunken craft is removed or abandoned, and the neglect or failure of the said owner, lessee, or operator to do so shall be unlawful; and it shall be the duty of the owner, lessee, or operator of such sunken craft to commence the immediate removal of the same, and prosecute such removal diligently, and failure to do so shall be considered as an abandonment of such craft, and subject the same to removal by the United States as hereinafter provided for (30 St. 1152; 33 U.S.C. §409).

SECTION 16

That every person and every corporation that shall violate, or that shall knowingly aid, abet, authorize, or instigate a violation of the provisions of sections thirteen, fourteen, and fifteen of this act shall be guilty of a misdemeanor, and on conviction thereof shall be punished by a fine not exceeding twenty-five hundred dollars nor less than five hundred dollars, or by imprisonment (in the case of a natural person) for not less than thirty days nor more than one year, or by both such fine and imprisonment, in the discretion of the court, one-half of said fine to be paid to the person or persons giving information which shall lead to conviction (30 Stat. 1153; 33 U.S.C. §411). And any and every master, pilot, and engineer, or person or persons acting in such capacity, respectively, on board of any boat or vessel who shall knowingly engage in towing any scow, boat, or vessel loaded with any material specified in section thirteen of this Act to any point or place or deposit or discharge in any harbor or navigable water, elsewhere than within the limits defined and permitted by the Secretary of War, or who shall willfully injure or destroy any work of the United States contemplated in section fourteen of this Act, or who shall willfully obstruct the channel of any waterway in the manner contemplated in section fifteen of this Act, shall be deemed guilty of a violation of this Act, and shall upon conviction be punished as hereinbefore provided in this section, and shall also have his license revoked or suspended for a term to be fixed by the judge before whom tried and convicted. And any boat, vessel, scow, raft, or other craft used or employed in violating any of the provisions of sections thirteen, fourteen, and fifteen of this Act shall be liable for the pecuniary penalties specified in this section, and in addition thereto for the amount of the damages done by said boat, vessel, scow, raft, or other craft, which latter sum of the harbor or waterway in which the damage occurred, and said boat, vessel, scow, raft, other craft may be proceeded against summarily by way of libel in any district court of the United States having jurisdiction thereof (30 Stat. 1153; 33 U.S.C. §412).

SECTION 19

(a) That whenever the navigation of any river, lake, harbor, sound, bay, canal, or other navigable waters of the United States shall be obstructed or endangered by an sunken vessel, boat, watercraft, raft, or other similar obstruction, and such obstruction has existed for a longer period than thirty days, or whenever the abandonment of such obstruction can be legally established in a less space of time, the sunken vessel, boat watercraft, raft, or other obstruction shall be subject to be broken up, removed, sold, or otherwise disposed of by the newspaper established nearest to the locality of the obstruction requiring the removal thereof; AND PROVIDED ALSO, That the Secretary of War may, in his discretion, at or after the time of giving such notice, cause sealed proposals to be solicited by public advertisement, giving reasonable notice of less than ten days, for the removal of such obstruction as soon as possible after the expiration of the above specified thirty days' notice, in case it has not in the meantime been so removed, these proposals and contracts, at his discretion, to be conditioned that such vessel, boat, watercraft, raft, or other obstruction, and all cargo and property contained therein, shall become the property of the contractor, and the contract shall be awarded to the bidder making the proposition most advantageous to the United States; PROVIDED, that such bidder shall give satisfactory security to execute the work; PROVIDED FURTHER, That any money received from the sale of any such wreck, or from any contractor for the removal of wrecks, under this paragraph shall be covered into the Treasury of the United States (30 Stat. 1154; 33 U.S.C. § 414).

EXTRACT FROM THE RIVER AND HARBOR ACT OF 1899

(b) The owner, lessee, or operator of such vessel, boat, watercraft, raft, or other obstruction as described in this section shall be liable to the United States for the cost of removal or destruction and disposal as described which exceeds the costs recovered under subsection (a). Any amount recovered from the owner, lessee, or operator of such vessel pursuant to this subsection to recover costs in excess of the proceeds from the sale or disposition of such vessel shall be deposited in the general fund of the Treasury of the United States.

SECTION 20

(a) That under emergency in the case of any vessel, boat, watercraft, raft, or similar obstruction, sinking or grounding, or being unnecessarily delayed in any Government canal or lock, or in any navigable waters mentioned in section nineteen, in such manner as to stop, seriously interfere with, or specifically endanger navigation, in the opinion of the Secretary of War, or any agent of the United States to whom the Secretary may delegate proper authority, the Secretary of War or any such agent shall have the right to take immediate possession of such boat, vessel, or other watercraft, or raft, so far as to remove or to destroy it and to clear immediately the canal, lock, or navigable waters aforesaid of the obstruction thereby caused, using his best judgment to prevent any unnecessary injury; and no one shall interfere with or prevent such removal or destruction; PROVIDED, That the officer or agent charged with the removal or destruction of an obstruction under this section may in his discretion give notice in writing to the owners of any obstruction requiring them to remove it; AND PROVIDED FURTHER, That the expense of removing any such obstruction as aforesaid shall be a charge against such craft and cargo; and if the owners thereof fail or refuse to reimburse the United States for such expense within thirty days after notification, then the officer or agent or aforesaid may sell the craft or cargo, or any part thereof that may not have been destroyed in removal, and the proceeds of such sale shall be covered into the Treasury of the United States (30 Stat. 1154; 33 U.S.C. §415).

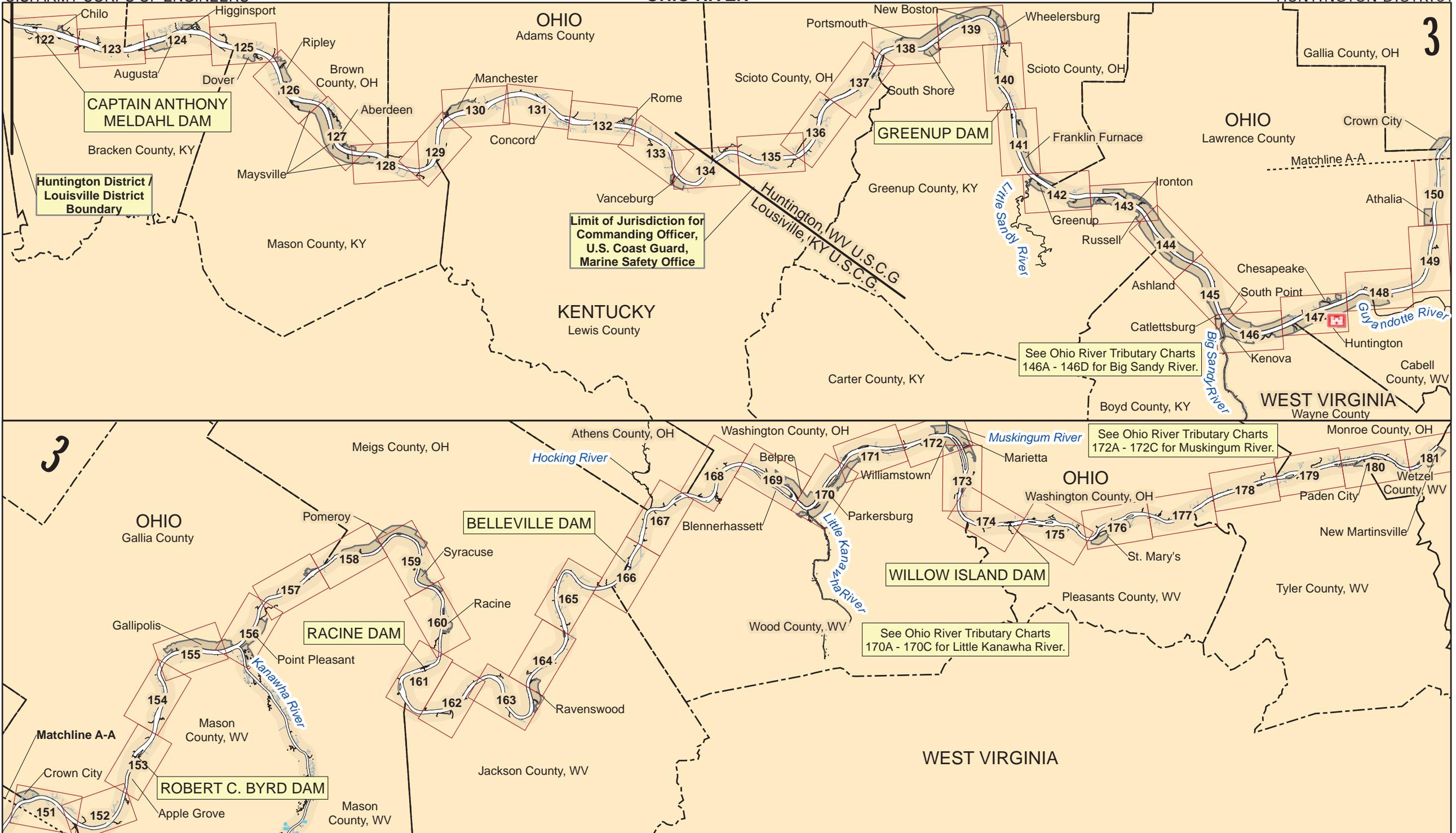
(b) The owner, lessee, or operator of such vessel, boat, watercraft, raft, or other obstruction as described in this section shall be liable to the United States for the cost of removal or destruction and disposal as described which exceeds the costs recovered under subsection (a). Any amount recovered from the owner, lessee, or operator of such vessel pursuant to this subsection to recover costs in excess of the proceeds from the sale or disposition of such vessel shall be deposited in the general fund of the Treasury of the United States.

U.S. ARMY CORPS OF ENGINEERS

OHIO RIVER

HUNTINGTON DISTRICT

CHART NO.	RIVER MILE	FEATURES / LOCALITY	CHART NO.	RIVER MILE	FEATURES / LOCALITY	CHART NO.	RIVER MILE	FEATURES / LOCALITY
CAPTAIN ANTHONY MELDAHL LOCKS & DAM POOL			GREENUP LOCKS & DAM POOL			BELLEVILLE LOCKS & DAM POOL		
122	438.0 – 433.0	Big Snag Creek Bar, Captain Anthony Meldahl Locks and Dam, Chilo OH	145	322.1 – 316.8	Ashland KY, Catlettesburg KY	166	206.9 – 202.1	Belleville Locks and Dam
123	433.0 – 428.0	Locust Creek, Bull Skin Creek	146	317.5 – 312.5	Kenova WV, Big Sandy River	167	202.1 – 196.3	Hockingport OH, Hocking River, Mustapha Island
124	428.0 – 422.8	Augusta KY, Higginsport OH	147	312.5 – 307.3	Huntington WV, Chesapeake OH	168	196.3 – 190.7	Little Hocking River, Newberry Island
125	422.8 – 417.6	Dover KY	148	307.3 – 302.3	Proctorville OH, Guyandotte River	169	190.7 – 185.6	Belpre OH, Blennerhassett Island
126	417.9 – 412.7	Ripley OH, Eagle Creek	149	302.3 – 297.2	Proctorville OH, Nine Mile Creek	170	185.6 – 180.4	Parkersburg WV, Little Kanawha River
127	412.7 – 407.2	Maysville KY, Aberdeen OH	150	297.2 – 292.4	Athalia OH, Miller OH	171	180.6 – 175.6	Vienna WV, Halfway Island, Muskingum Island
128	407.2 – 402.9	Little Three Mile Creek, Cabin Creek	151	293.0 – 286.9	Crown City OH	172	175.6 – 170.5	Marietta OH, Muskingum River
129	403.7 – 397.9	Crooked Creek, Isaacs Creek	152	288.0 – 281.8	Glennwood Station	173	170.8 – 165.8	Marietta (Kerr) Island, Little Muskingum River
130	398.5 – 393.2	Manchester OH, Manchester Island	ROBERT C. BYRD LOCKS & DAM POOL			WILLOW ISLAND LOCKS & DAM POOL		
131	393.5 – 388.1	Concord KY, Brush Creek Island	153	281.9 – 277.0	Robert C. Byrd Locks and Dam	174	166.5 – 160.8	Willow Island Locks and Dam
132	388.1 – 383.2	Rome OH	154	277.0 – 271.4	Raccoon Creek	175	160.8 – 155.7	Lower Brothers Island, Middle Brothers Island
133	383.4 – 378.2	Quick Run Creek, Salt Lick Creek	155	271.6 – 266.6	Gallipolis OH, Gallipolis Island	176	155.8 – 150.4	St. Marys WV, Middle Island, Grape Island
134	379.2 – 372.6	Vanceburg KY, Buena Vista OH	156	266.9 – 261.6	Point Pleasant WV, Kanawha River	177	150.4 – 145.0	Bens Run WV
135	372.6 – 367.5	Kinniconnick Creek	157	261.8 – 256.8	York Station WV, Eight Mile Island	178	145.0 – 140.0	New Matamoras OH, Grandview Island
136	368.0 – 362.9	Quincy KY, Pond Run	158	256.8 – 251.7	Middleport OH	179	140.0 – 135.2	Sistersville WV, Wells Island
137	362.9 – 357.7	Turkey Creek, Old Lock 31	159	251.7 – 244.9	Pomeroy OH, Mason WV	180	135.2 – 129.8	Paden City WV, Williamson Island
138	358.7 – 352.9	Portsmouth OH, Bonanza Bar	160	244.9 – 239.2	Racine OH	181	129.8 – 126.4	Hannibal Locks and Dam
139	352.9 – 346.7	Sciotoville OH, Little Scioto Bar	RACINE LOCKS & DAM POOL			OHIO RIVER TRIBUTARY RIVERS		
140	346.7 – 341.6	Burkes Point Bar	161	239.4 – 232.6	Racine Locks and Dam, Letart Island	146A – 146D	0.0 – 9.4	Big Sandy River
GREENUP LOCKS & DAM POOL			162	232.6 – 227.3	Millwood WV, Mill Creek	170A – 170C	0.0 – 7.6	Little Kanawha River
141	341.6 – 336.6	Greenup Locks and Dam	163	227.5 – 219.7	Willow Grove WV, Ravenswood WV	172A – 172C	0.0 – 5.9	Muskingum River
142	336.6 – 331.7	Greenup KY, Little Sandy River	164	219.7 – 214.5	Buffington Island			
143	331.7 – 326.8	Ironton OH, Russell KY	165	214.5 – 206.9	Long Bottom OH, Shade River			
144	327.2 – 322.1	Ashland KY, Coal Grove OH						



3

3

U.S. Navigation Lights

Daymarks

Mile Board

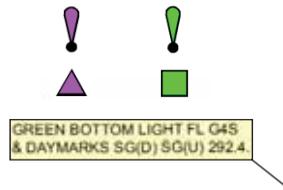
Buoys:

Can (Green)

Nun (Red)

Junction (Red/Green)

Hazard (Lighted)



Land Above Project Pool

Water, with Less Than 9' Depth at Project Pool

Water, with 9' or More Depth at Project Pool



Arrival Point for Lockage

Sailing Line & Mile Marker

Ordinary High Water Elevation

Flow

Ferry Crossing

Aerial Crossing

Pipeline Crossing

Cable Crossing

Dike

Conveyor

Wreck

Restricted Area

Fleeting Area

No Anchorage/Caution Area

Underwater Rock

Gages

Commercial Docks

Mooring Cells

Mooring Buoys

Federal Mooring Cells

Ties (Tri/Quad)

Intake

Outfall Pipe

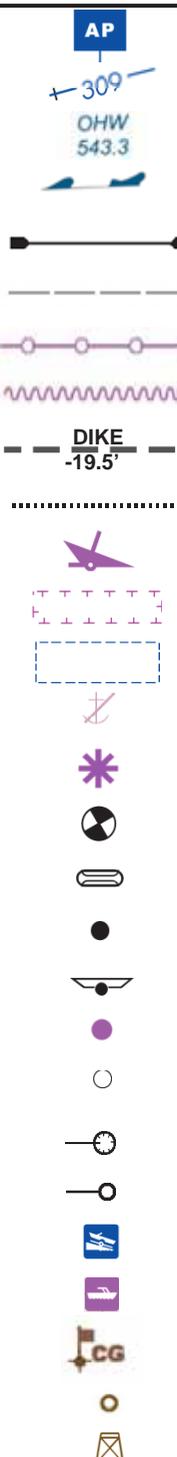
Launching Ramp

Dock or Marina

U.S. Coast Guard Station

Tank

Tower



CHARACTERISTICS OF NAVIGATION LIGHTS

Lights in the Eighth Coast Guard District show simple characteristics, allocated by color or other features to the left and right descending banks, see examples below:

Left Descending Bank

- F.W. Fixed White
- F.R. Fixed Red
- FL(2)W5s Group Flashing White
(2 flashes every 5 sec.)
- FL(2)R5s. Group Flashing Red
(2 flashes every 5 sec.)

Right Descending Bank

- F.W. Fixed White
- F.G. Fixed Green
- FL W4s Flashing White
(flash every 4 sec.)
- FL G4s Flashing Green
(flash every 4 sec.)

DAYMARK DESCRIPTIONS

There are many standard designations for the appearance and purpose of all daymarks used in the U.S. Waterways System. Below is a description for daymarks used on the Ohio River, miles 438 – 127 and its tributaries. For all other daymark, buoy, or navigation light descriptions on the Kanawha River that are not shown here, refer to the most current United States Coast Guard Light List for the Mississippi River System by visiting: <http://www.navcen.uscg.gov/pubs/lightlists/2008volume5.pdf>.

Designations:

1. First letter – Shape or purpose
S: Square used to mark the port (left) side of channels when proceeding from seaward.
T: Triangle used to mark the starboard (right) side of channels when proceeding from seaward.
2. Second letter – Key Color
G – Green R – Red

Example: GREEN BOTTOM LIGHT FL G4S & DAYMARKS SG(D) SG(U) 292.4

Descriptions:

- SG: Square green daymark with a green reflective border.
- TR: Triangular red daymark with a red reflective border.
- (U): Situated Up
- (D): Situated Down

Description:
This daymark has a green light that flashes every 4 seconds (FL G4S), on a square green daymark that is situated both downstream and upstream [SG(D) SG(U)], on the right descending bank, at mile 292.4.

OHIO RIVER NAVIGATION CHARTS



CAPT. ANTHONY MELDAHL DAM PROJECT POOL

122 - 141

MILE 438.0 - 341.0

PROJECT POOL MELDAHL DAM ELEVATION 485.0



GREENUP DAM PROJECT POOL

141 - 153

MILE 341.0 - 279.2

PROJECT POOL GREENUP DAM ELEVATION 515.0



ROBERT C. BYRD DAM PROJECT POOL

153 - 161

MILE 279.2 - 237.5

PROJECT POOL ROBERT C. BYRD DAM ELEVATION 538.0



RACINE DAM PROJECT POOL

161 - 166

MILE 237.5 - 203.9

PROJECT POOL RACINE DAM ELEVATION 560.0



BELLEVILLE DAM PROJECT POOL

166 - 174

MILE 203.9 - 161.7

PROJECT POOL BELLEVILLE DAM ELEVATION 582.0



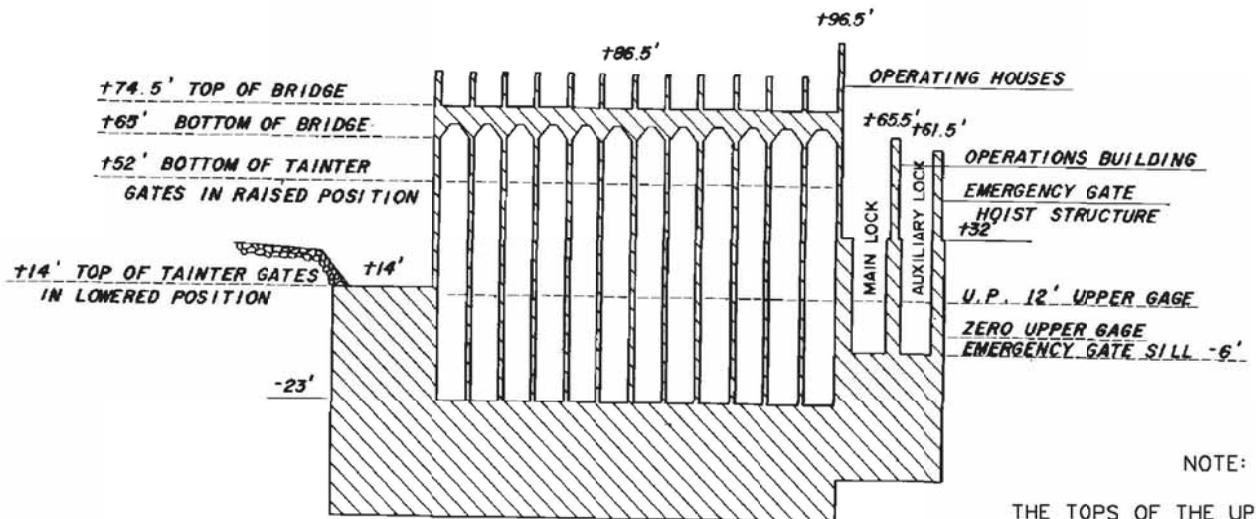
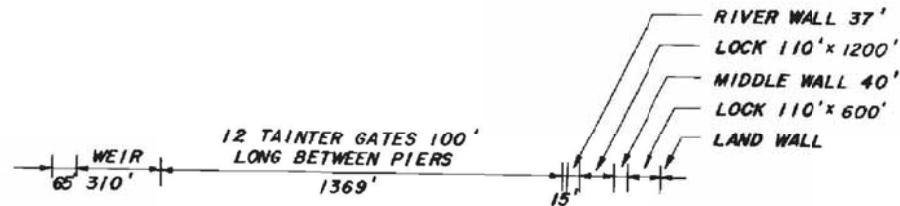
WILLOW ISLAND DAM PROJECT POOL

174 - 181

MILE 161.7 - 127.2

PROJECT POOL WILLOW ISLAND DAM ELEVATION 602.0

UPPER GAGE:
 ZERO ELEV. 473.0'
 P.P. READS 12.0'
 LOWER GAGE:
 ZERO ELEV. 443.0'
 P.P. READS 12.0'



NOTE:
 THE TOPS OF THE UPPER AND LOWER MITER GATE SILLS OF THE MAIN AND AUXILIARY LOCKS ARE AT ELEVATION 440.0 FEET, M.S.L.

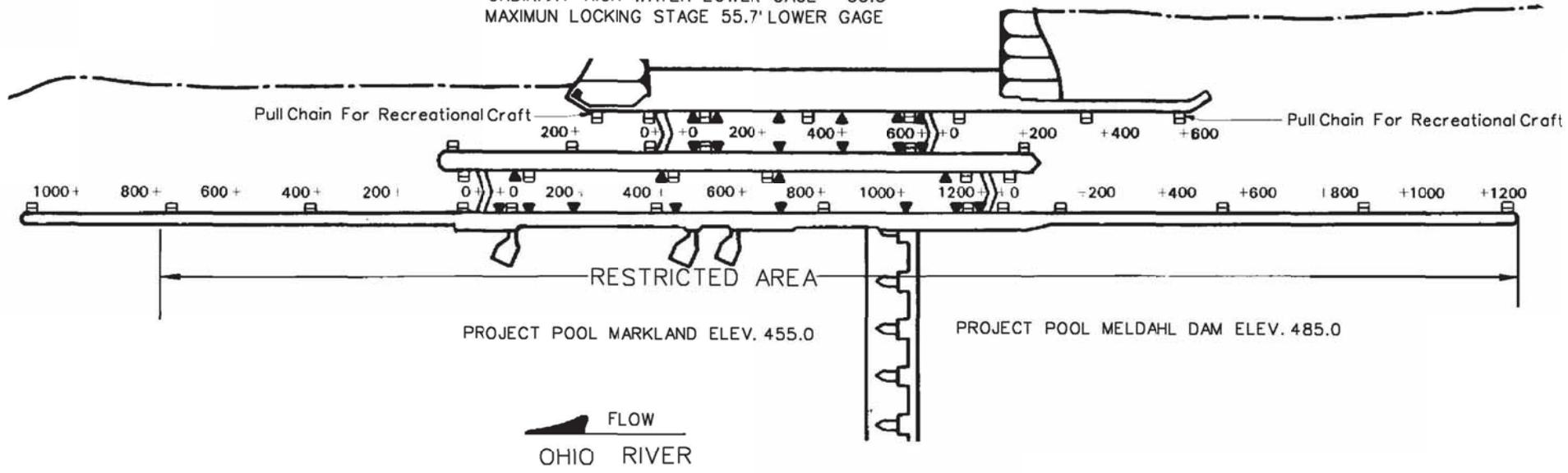
LEGEND

- ▲ FLOATING MOORING BIT
- ▣ LADDER - Black and White striped
- 200'+ Distance in feet from gate

OHIO

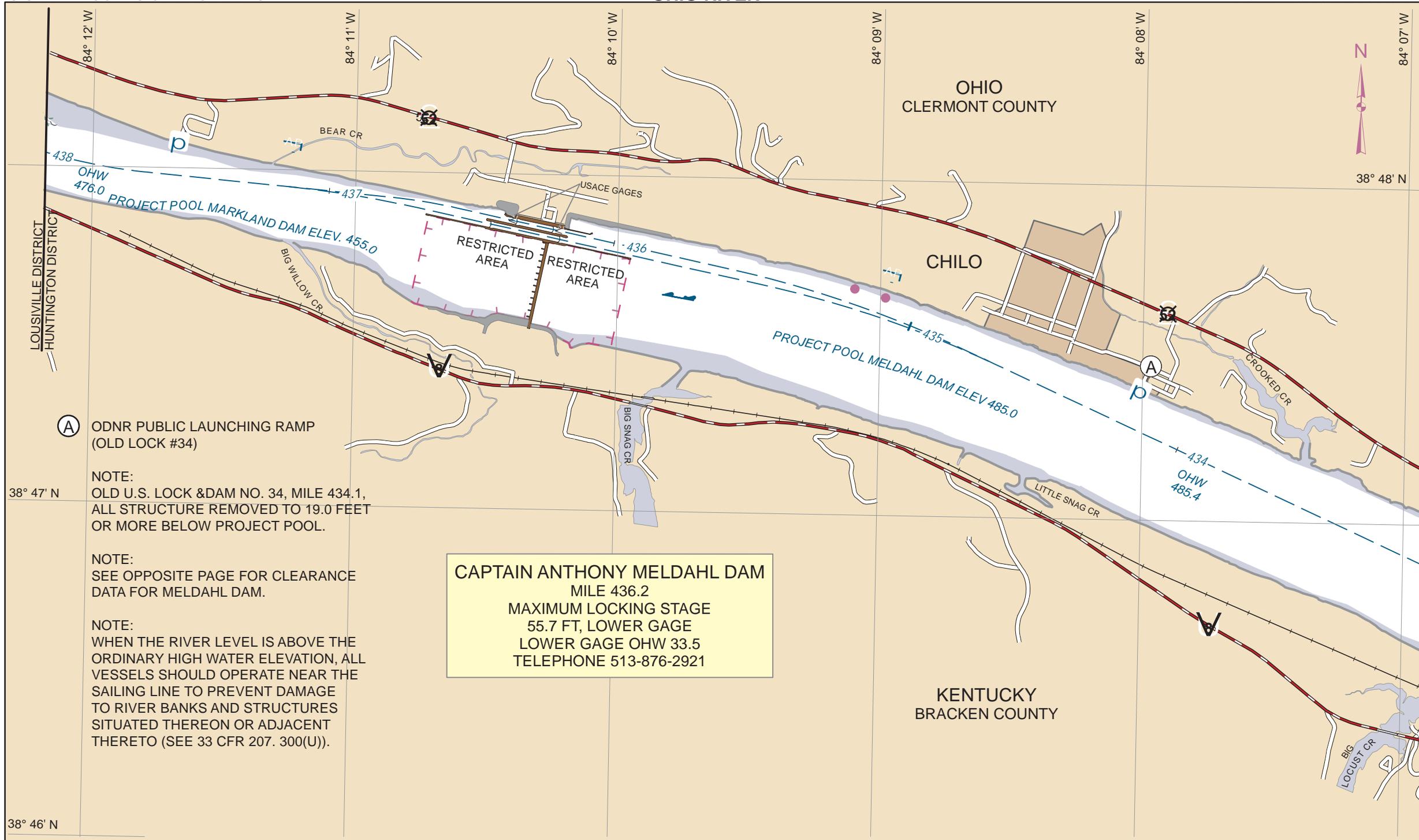
(ELEVATION LOOKING DOWNSTREAM)
 NO SCALE

NOTE:
 ORDINARY HIGH WATER LOWER GAGE - 33.5'
 MAXIMUM LOCKING STAGE 55.7' LOWER GAGE



SCALE: 1 INCH EQUALS 400 FEET.

CAPTAIN ANTHONY MELDAHL
 LOCKS AND DAM
 MILE 436.2



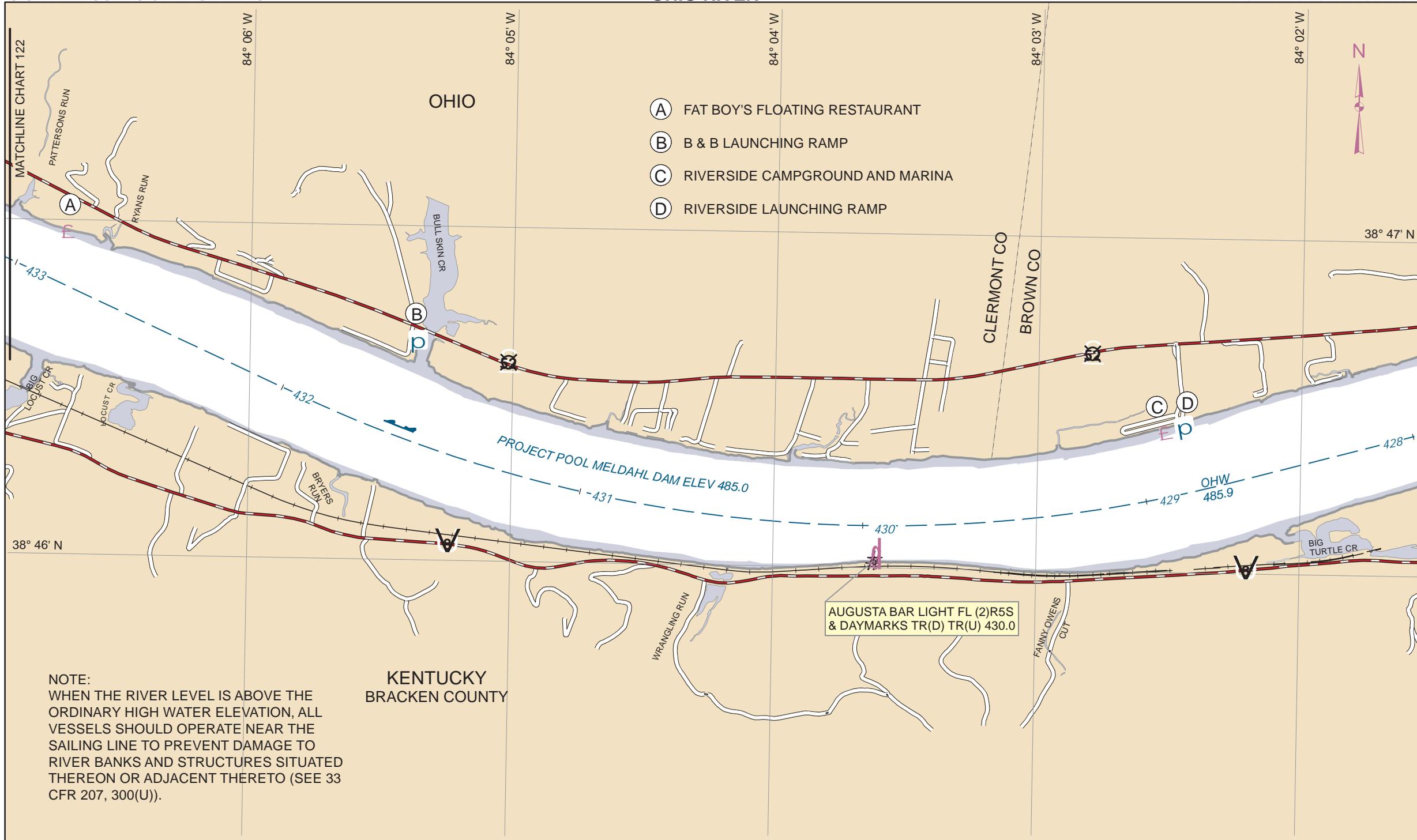
(A) ODNR PUBLIC LAUNCHING RAMP (OLD LOCK #34)

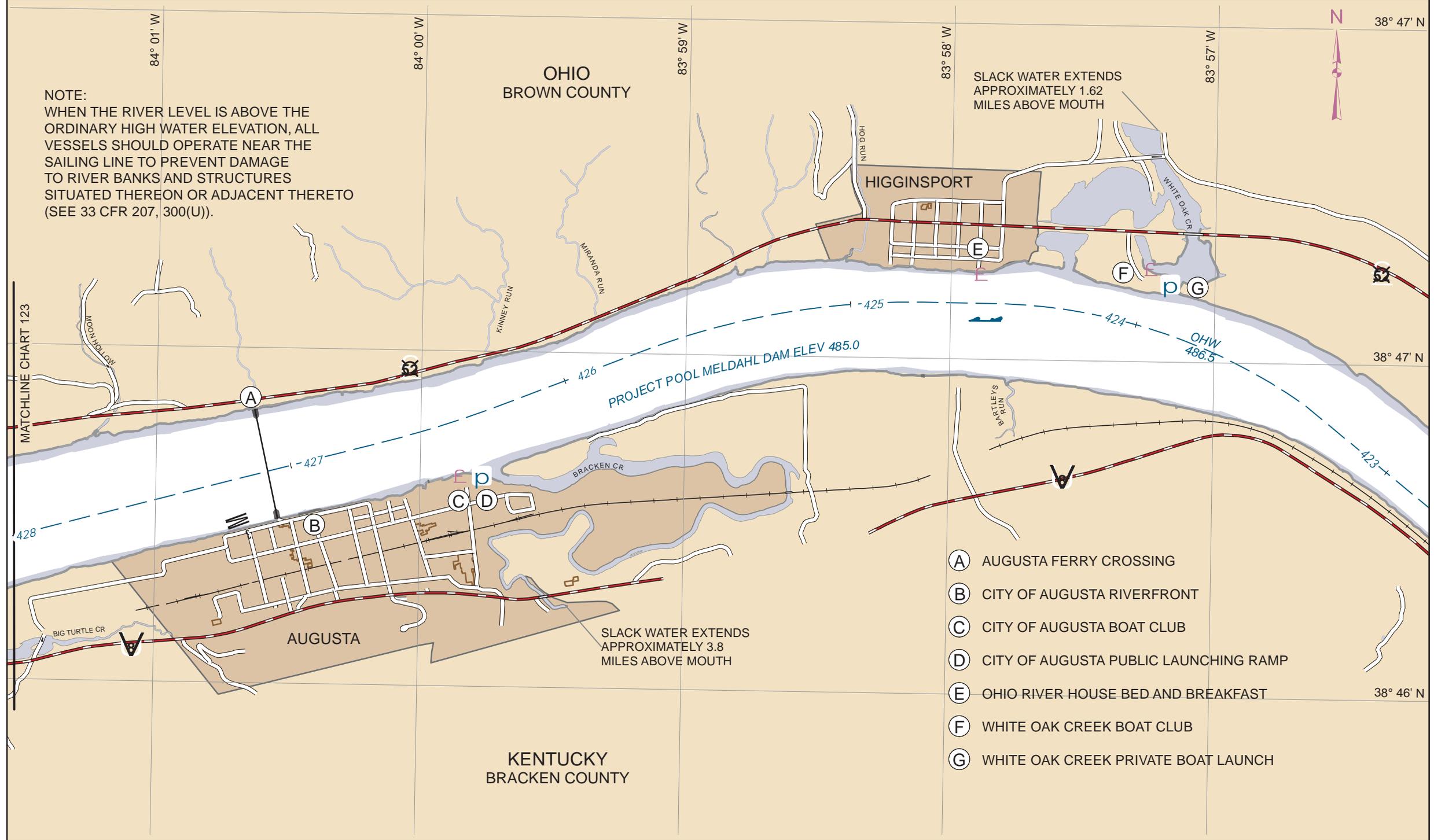
NOTE:
 OLD U.S. LOCK & DAM NO. 34, MILE 434.1,
 ALL STRUCTURE REMOVED TO 19.0 FEET
 OR MORE BELOW PROJECT POOL.

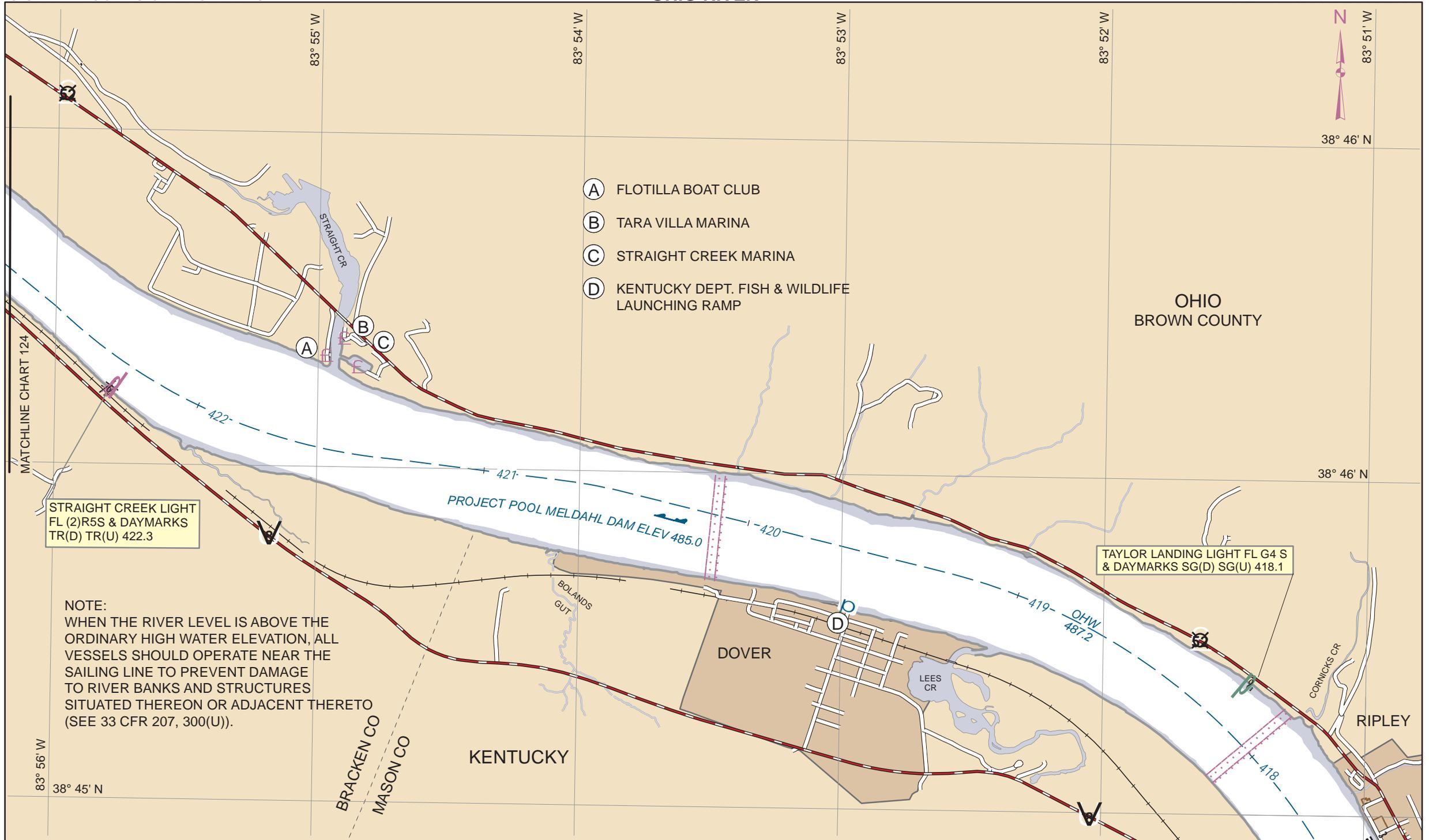
NOTE:
 SEE OPPOSITE PAGE FOR CLEARANCE
 DATA FOR MELDAHL DAM.

NOTE:
 WHEN THE RIVER LEVEL IS ABOVE THE
 ORDINARY HIGH WATER ELEVATION, ALL
 VESSELS SHOULD OPERATE NEAR THE
 SAILING LINE TO PREVENT DAMAGE
 TO RIVER BANKS AND STRUCTURES
 SITUATED THEREON OR ADJACENT
 THERETO (SEE 33 CFR 207. 300(U)).

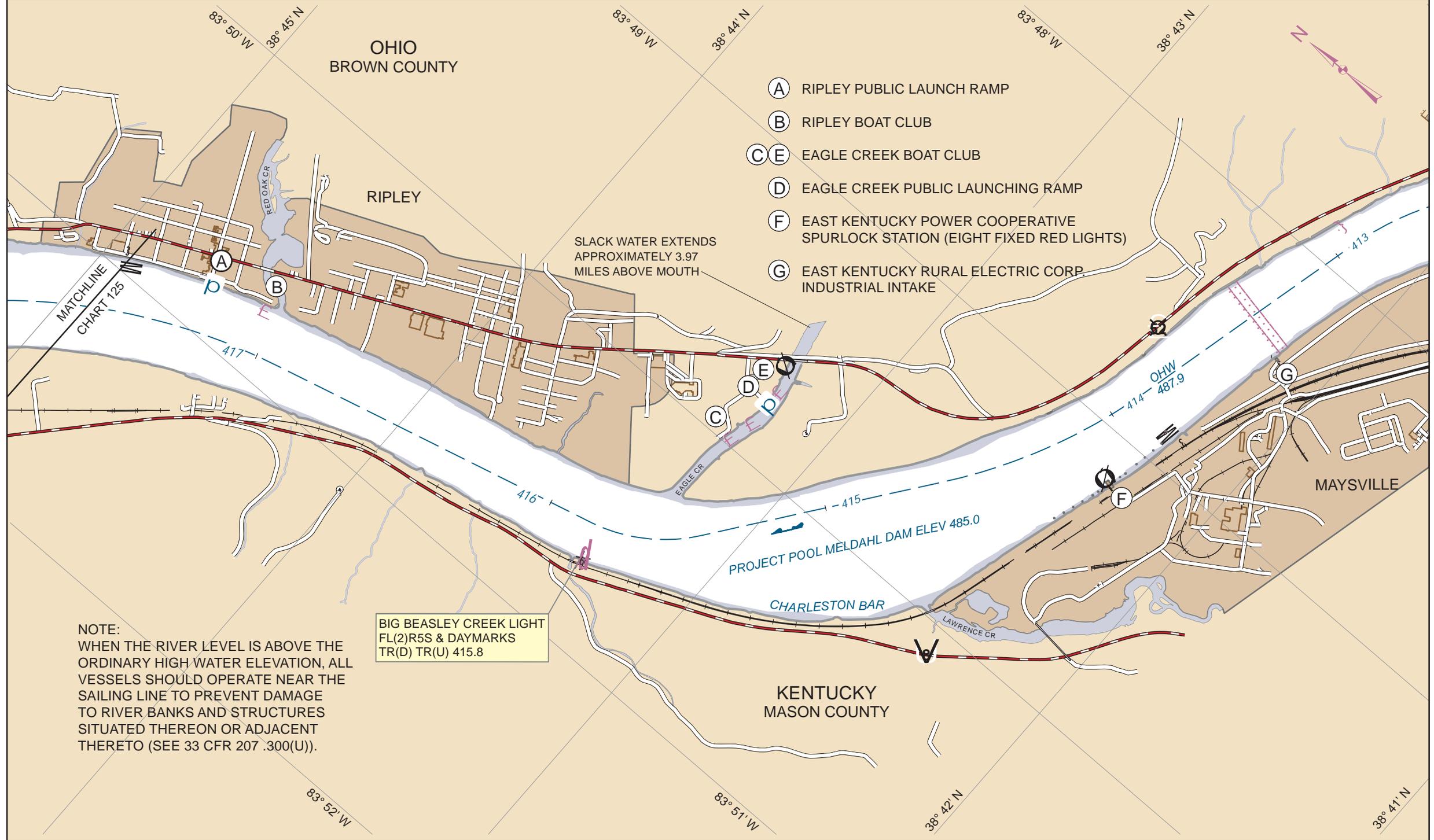
CAPTAIN ANTHONY MELDAHL DAM
 MILE 436.2
 MAXIMUM LOCKING STAGE
 55.7 FT, LOWER GAGE
 LOWER GAGE OHW 33.5
 TELEPHONE 513-876-2921

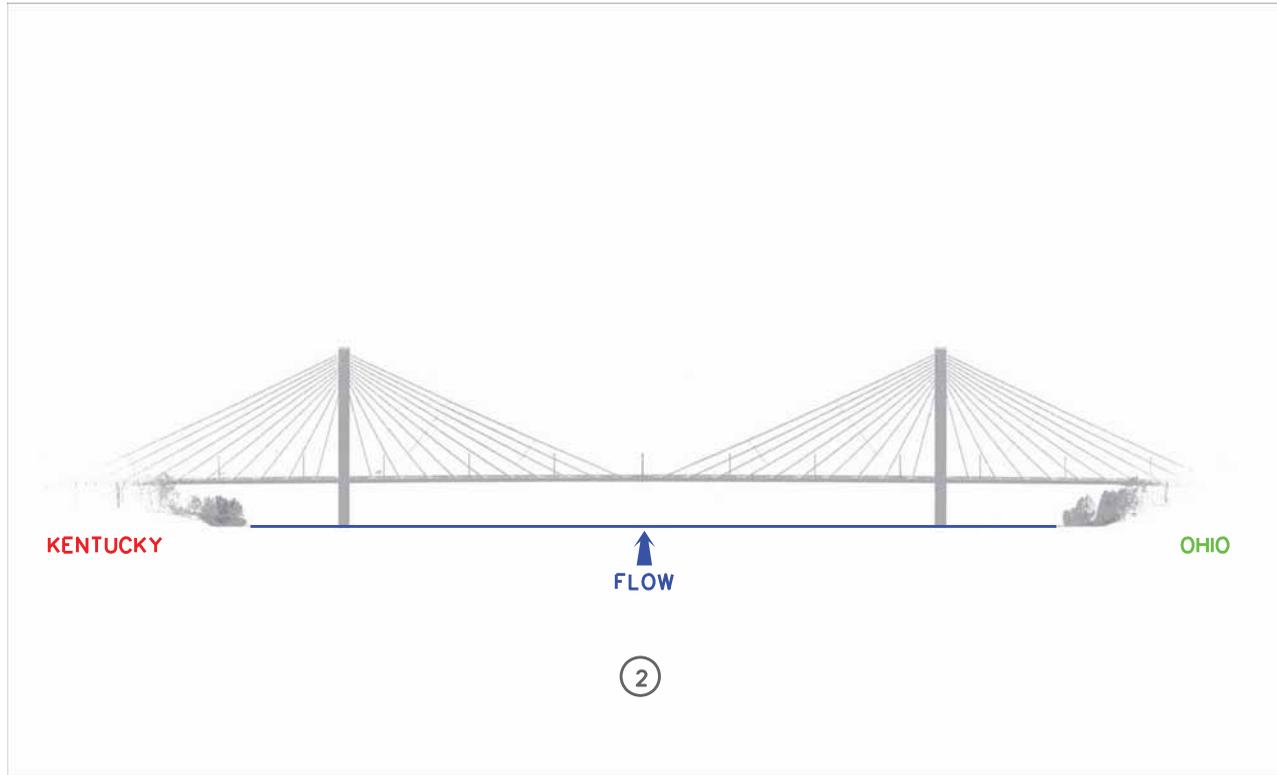






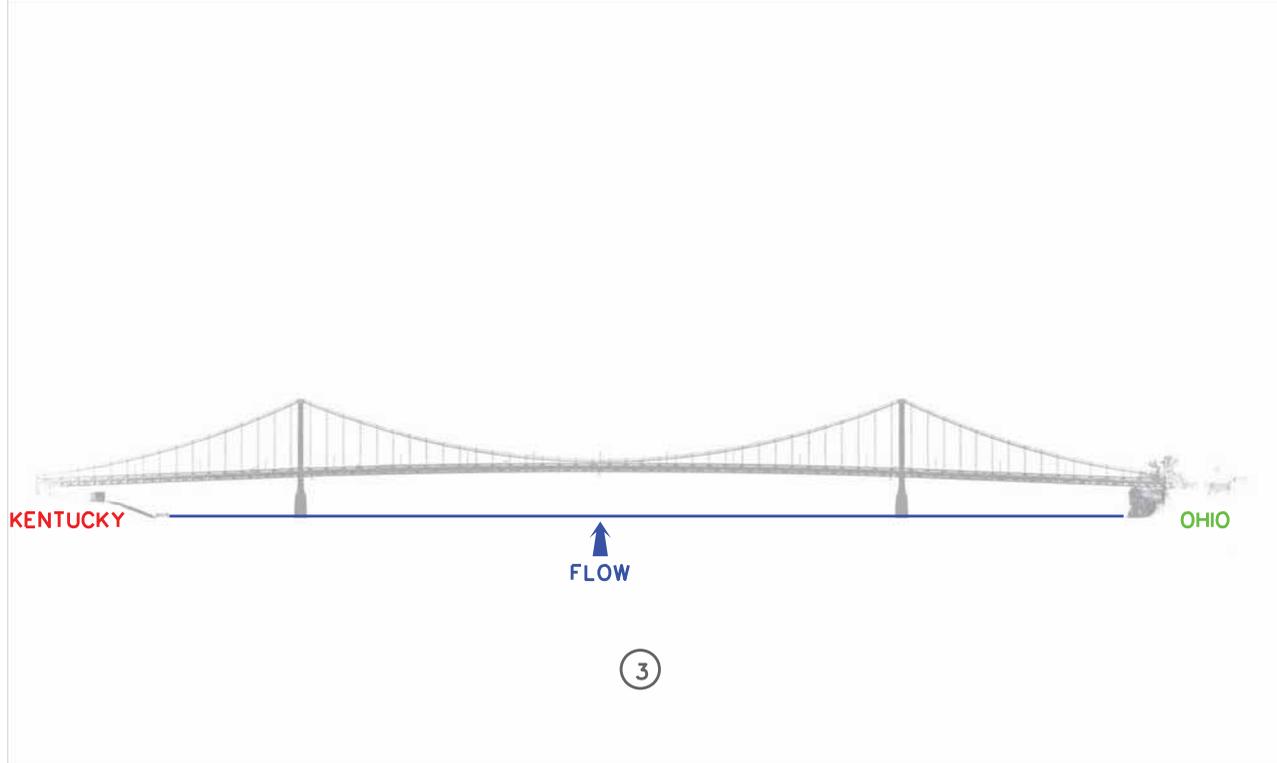
NOTE:
 WHEN THE RIVER LEVEL IS ABOVE THE
 ORDINARY HIGH WATER ELEVATION, ALL
 VESSELS SHOULD OPERATE NEAR THE
 SAILING LINE TO PREVENT DAMAGE
 TO RIVER BANKS AND STRUCTURES
 SITUATED THEREON OR ADJACENT THERETO
 (SEE 33 CFR 207, 300(U)).





412.5 ① AERIAL POWER CROSSING

ELEVATION LOW POINT OF SAG	578.6'
VERTICAL CLEARANCE AT POOL STAGE	93.6'
VERTICAL CLEARANCE - 1937 H.W.	53.6'

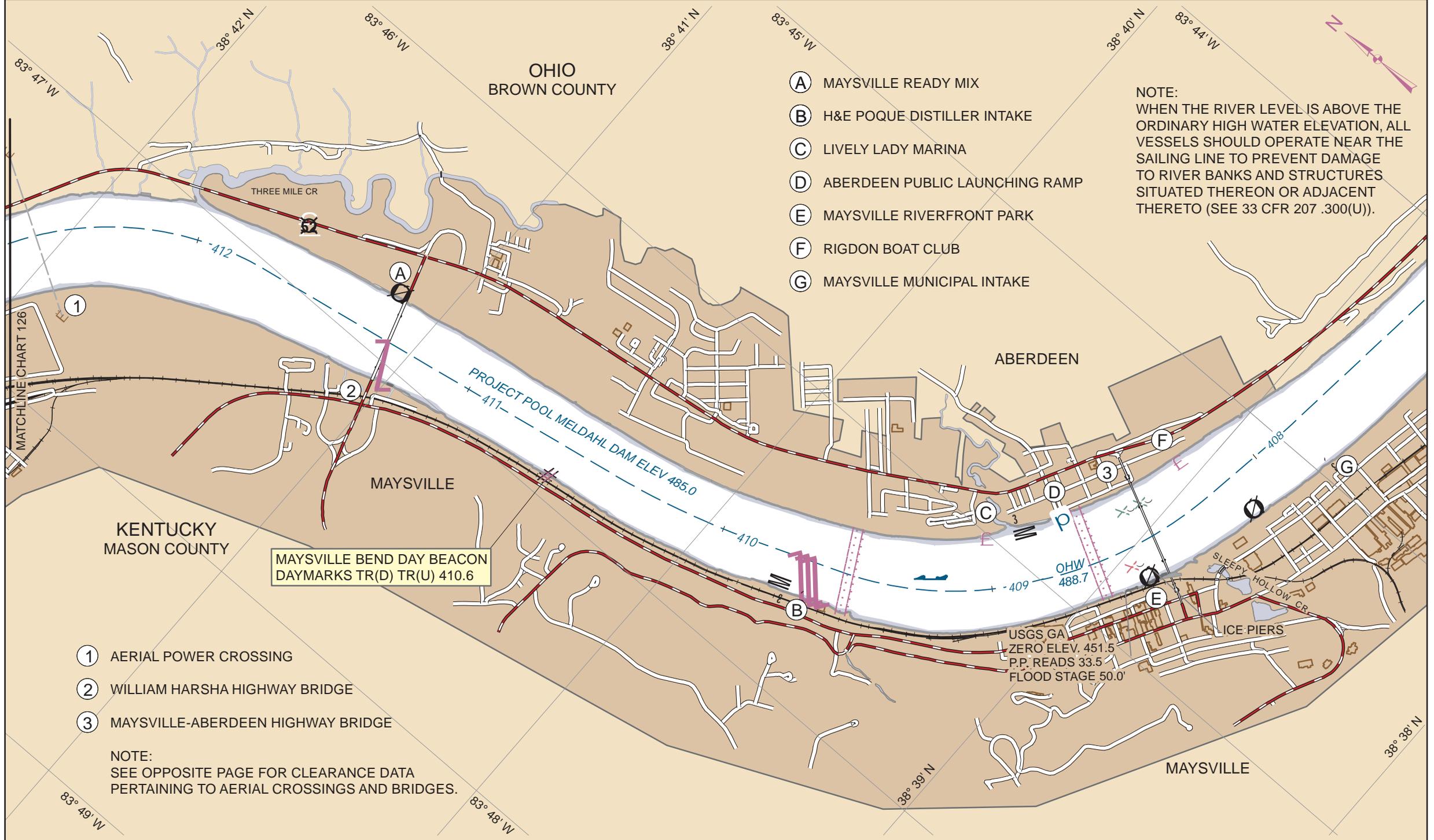


411.3 ② MAYSVILLE - US 62-68 HIGHWAY BRIDGE (WILLIAM HARSHA BRIDGE)

CHANNEL SPAN	
ELEVATION OF LOW STEEL	560.1'
VERTICAL CLEARANCE AT POOL STAGE	75.1'
VERTICAL CLEARANCE - 1937 H.W.	39.6'
HORIZONTAL CLEARANCE	1000'

408.5 ③ MAYSVILLE - ABERDEEN HIGHWAY BRIDGE

CHANNEL SPAN	
ELEVATION OF LOW STEEL	556.3'
VERTICAL CLEARANCE AT POOL STAGE	71.3'
VERTICAL CLEARANCE - 1937 H.W.	29.5'
HORIZONTAL CLEARANCE	1000'

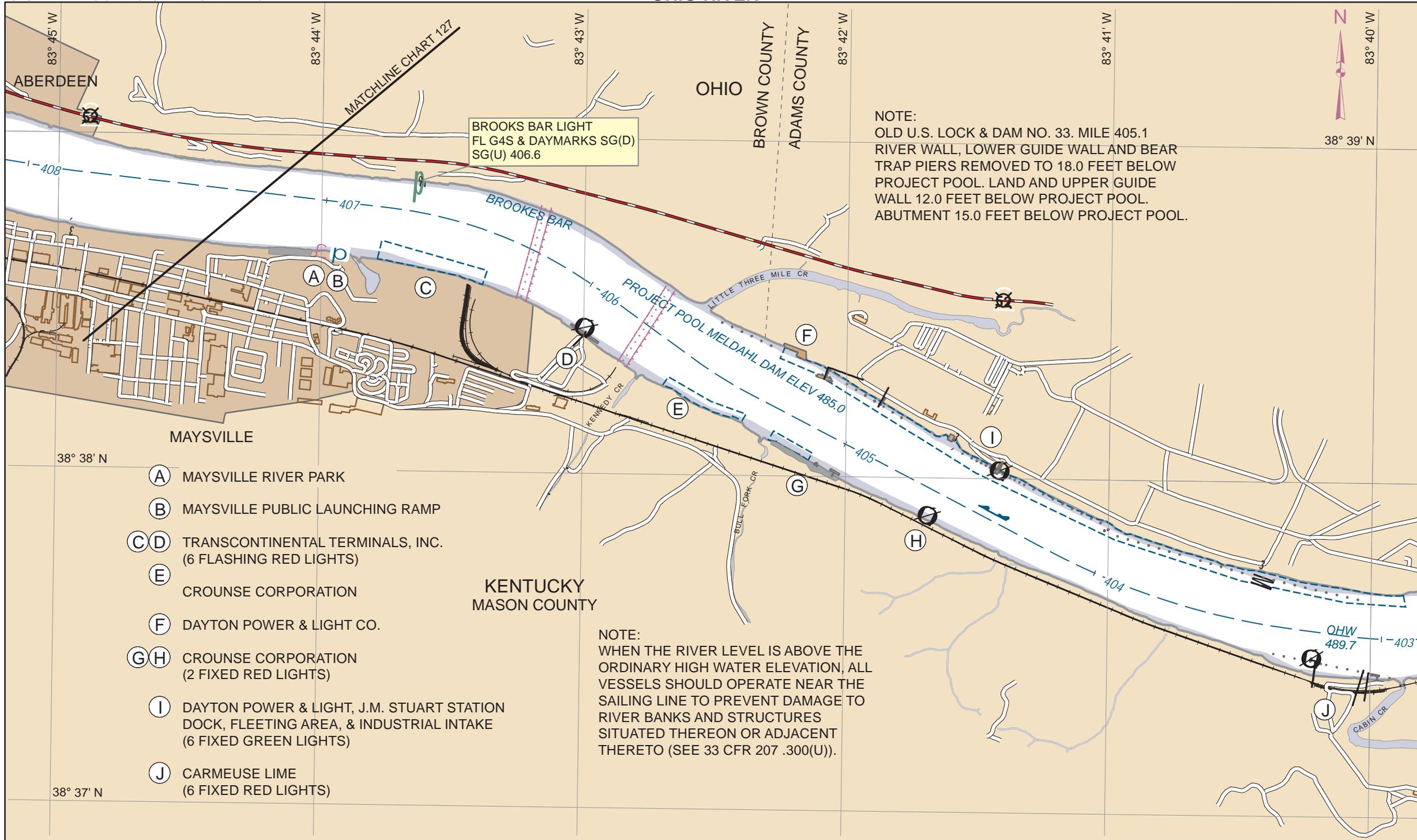


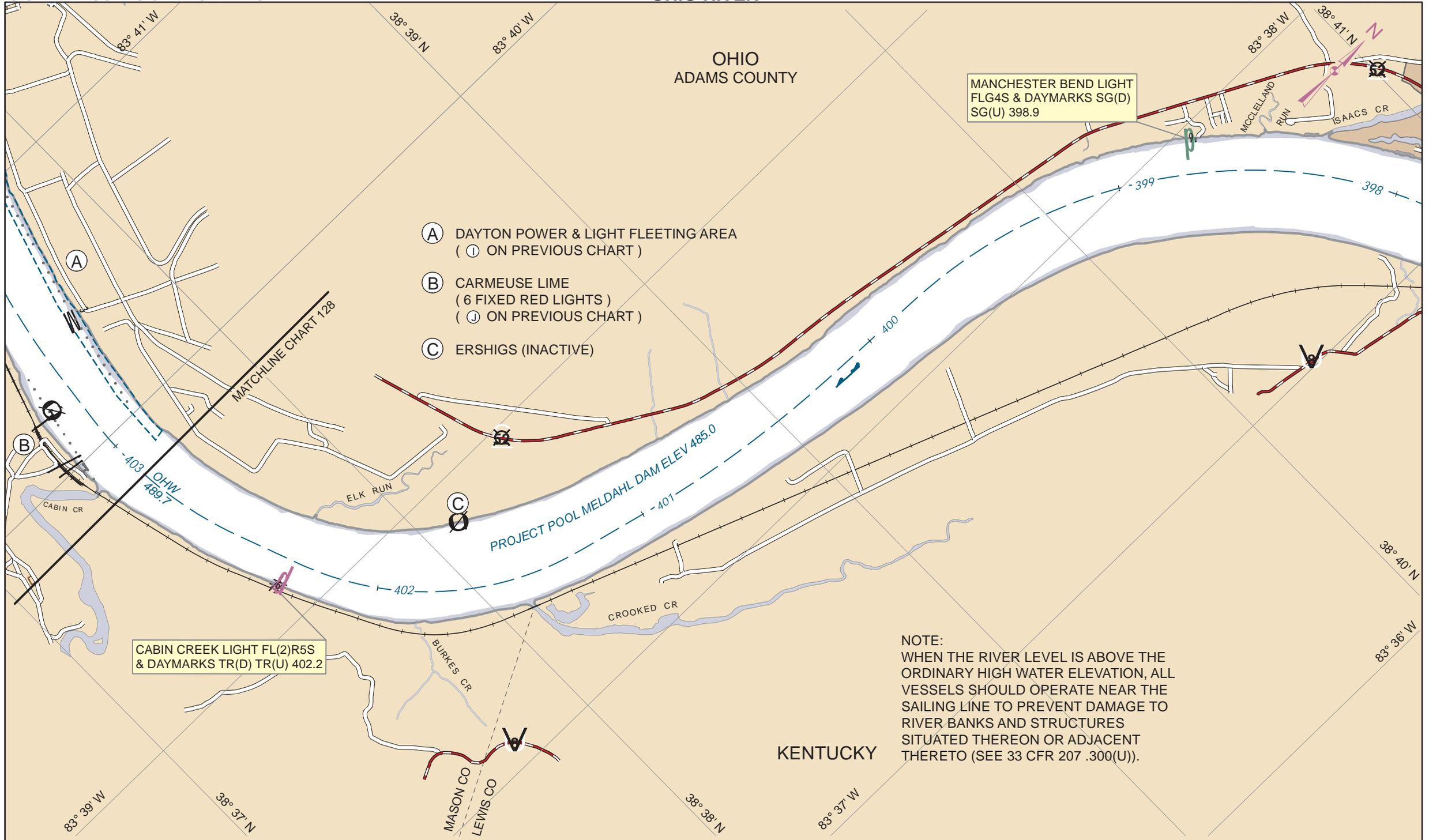
- (A) MAYSVILLE READY MIX
- (B) H&E POQUE DISTILLER INTAKE
- (C) LIVELY LADY MARINA
- (D) ABERDEEN PUBLIC LAUNCHING RAMP
- (E) MAYSVILLE RIVERFRONT PARK
- (F) RIGDON BOAT CLUB
- (G) MAYSVILLE MUNICIPAL INTAKE

NOTE:
 WHEN THE RIVER LEVEL IS ABOVE THE ORDINARY HIGH WATER ELEVATION, ALL VESSELS SHOULD OPERATE NEAR THE SAILING LINE TO PREVENT DAMAGE TO RIVER BANKS AND STRUCTURES SITUATED THEREON OR ADJACENT THERETO (SEE 33 CFR 207 .300(U)).

- (1) AERIAL POWER CROSSING
- (2) WILLIAM HARSHA HIGHWAY BRIDGE
- (3) MAYSVILLE-ABERDEEN HIGHWAY BRIDGE

NOTE:
 SEE OPPOSITE PAGE FOR CLEARANCE DATA PERTAINING TO AERIAL CROSSINGS AND BRIDGES.



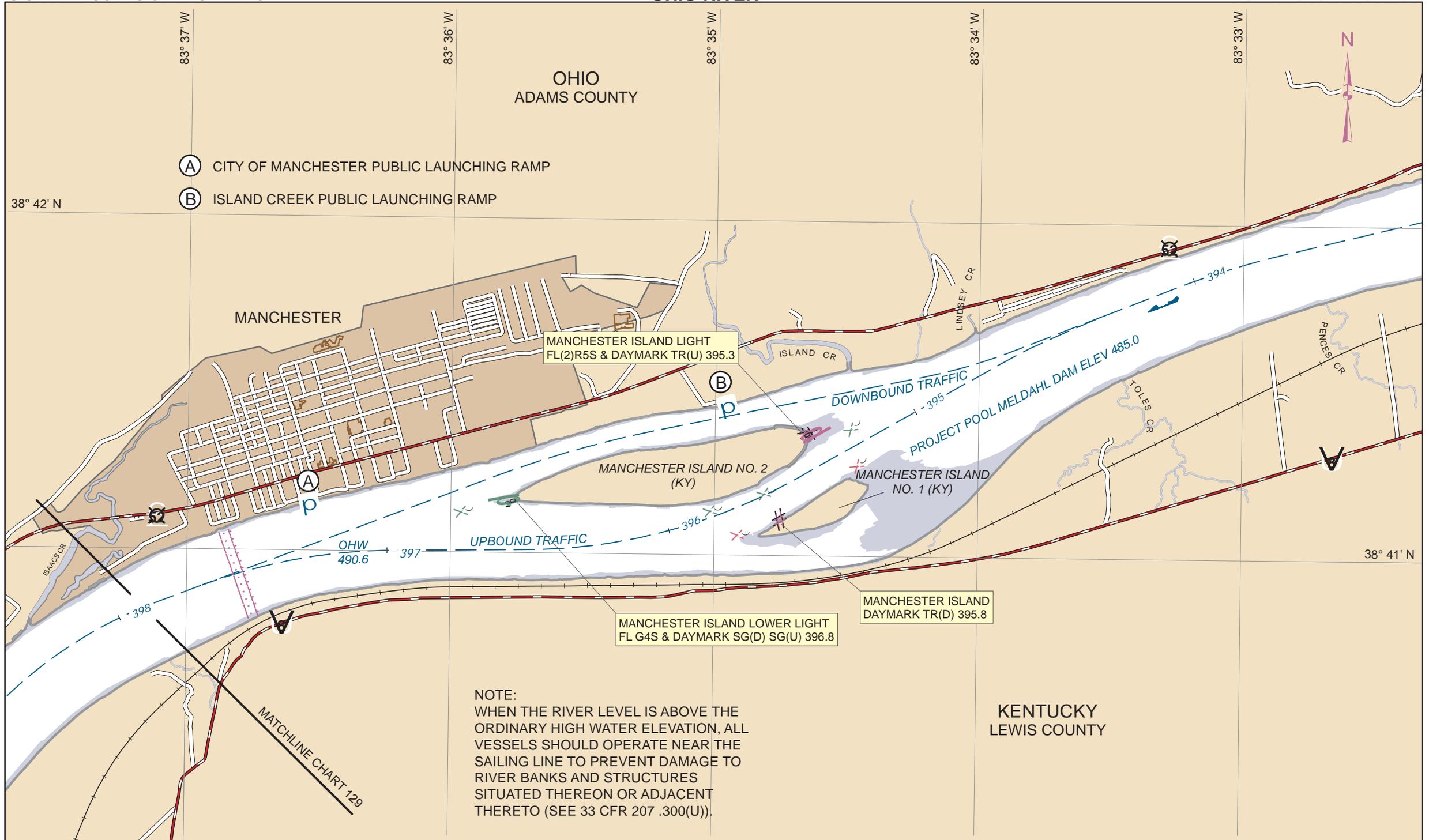


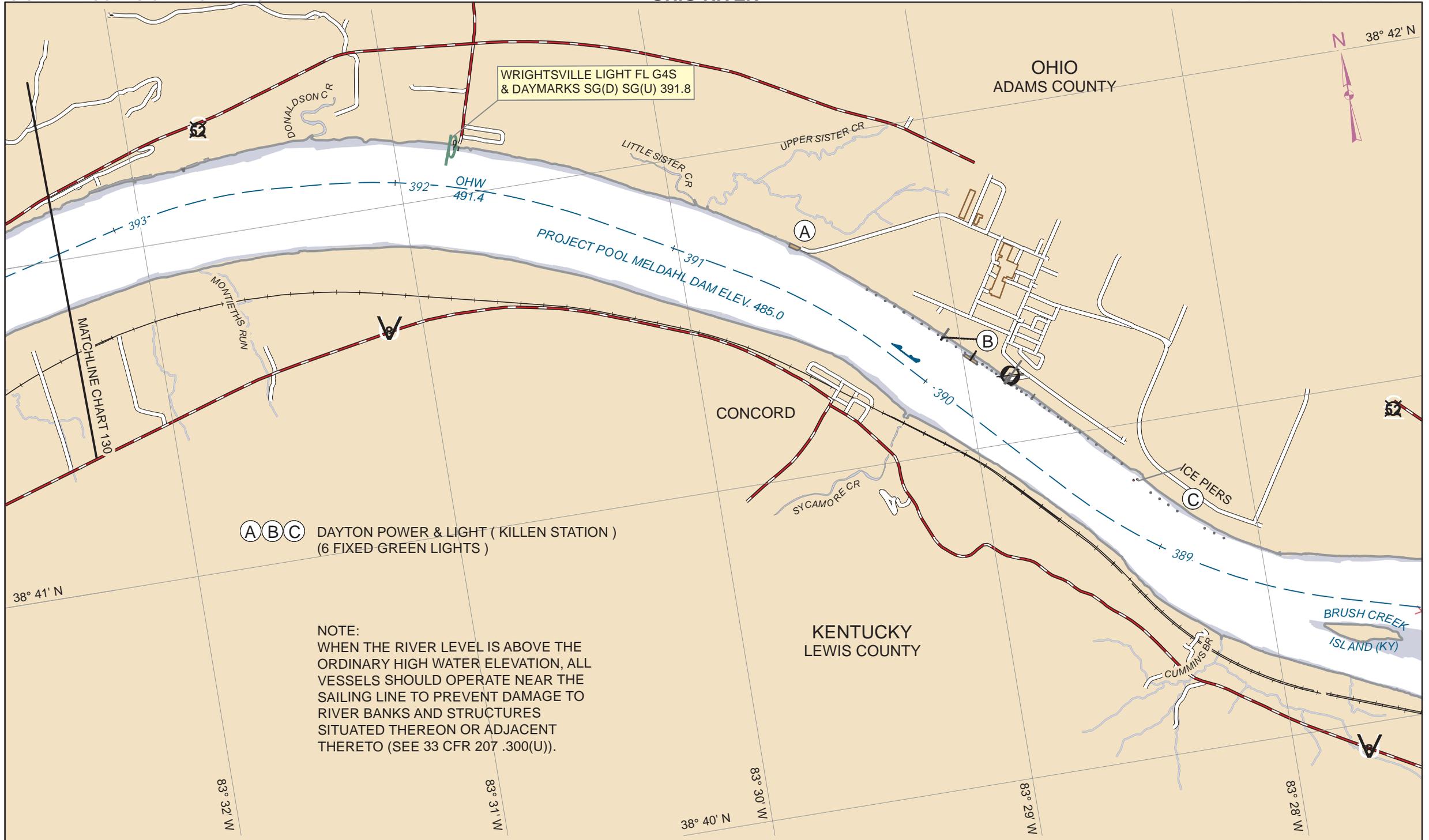
MANCHESTER BEND LIGHT
 FLG4S & DAYMARKS SG(D)
 SG(U) 398.9

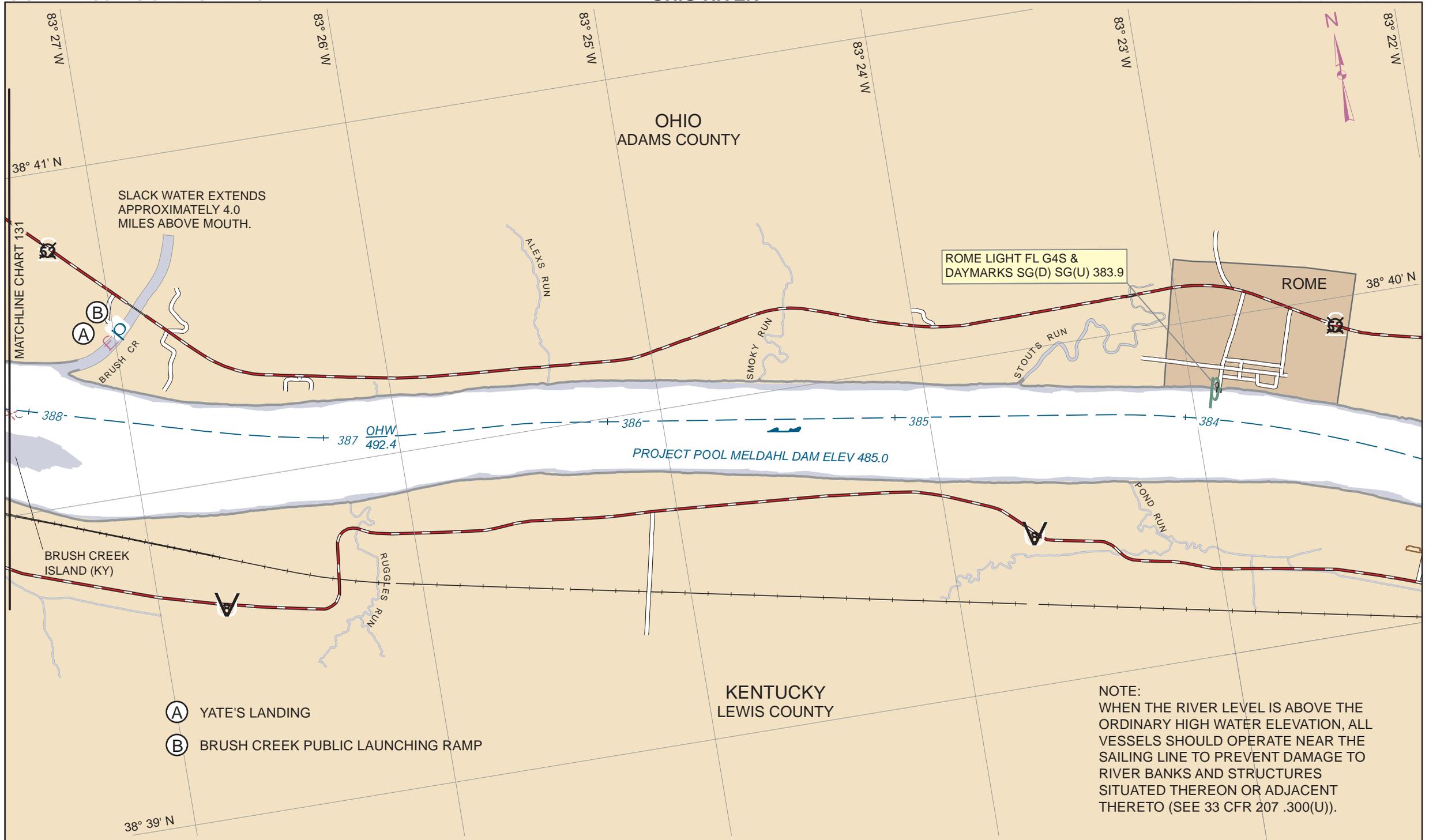
CABIN CREEK LIGHT FL(2)R5S
 & DAYMARKS TR(D) TR(U) 402.2

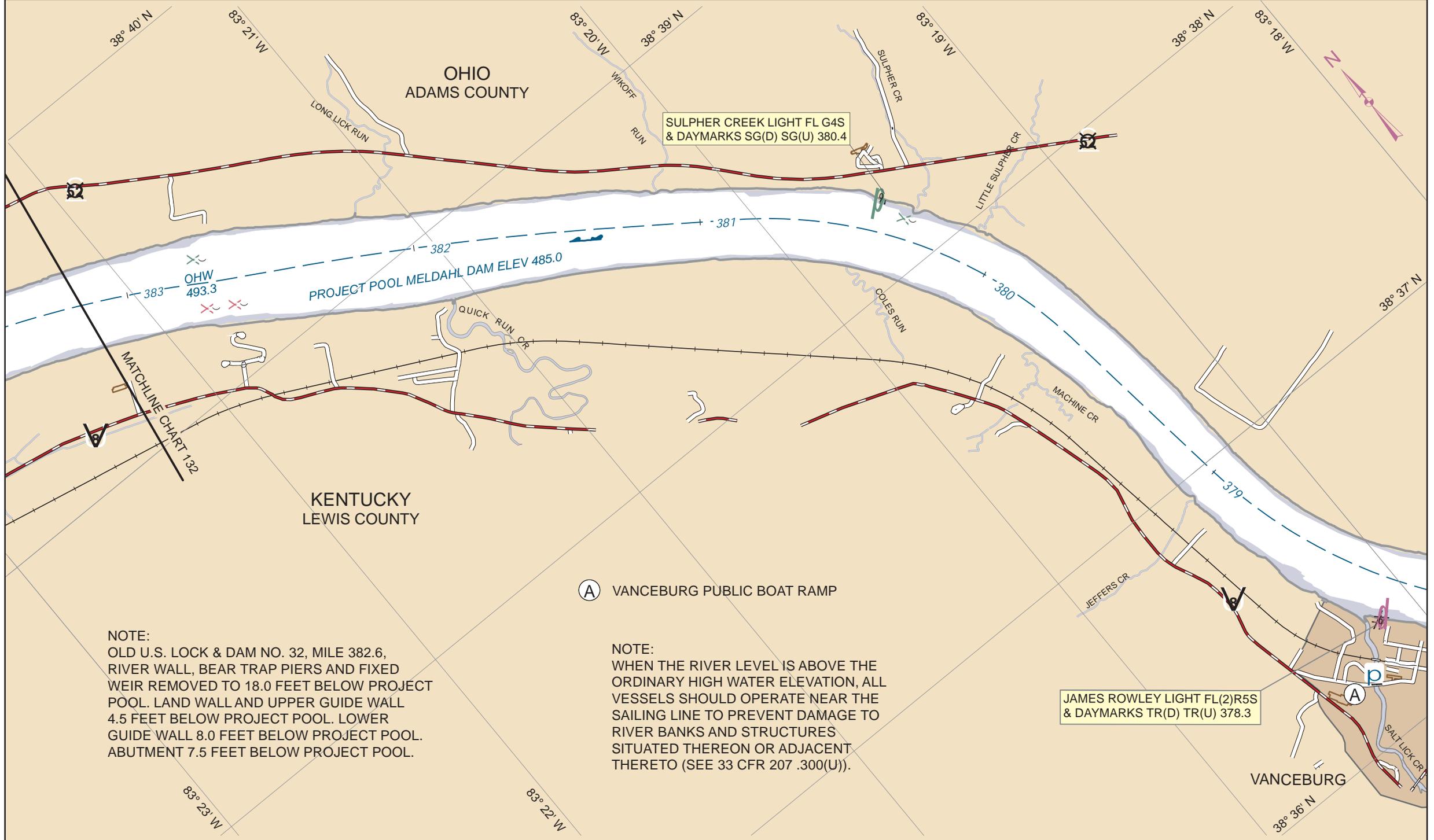
- (A) DAYTON POWER & LIGHT FLEETING AREA
(① ON PREVIOUS CHART)
- (B) CARMEUSE LIME
(6 FIXED RED LIGHTS)
(① ON PREVIOUS CHART)
- (C) ERSHIGS (INACTIVE)

NOTE:
 WHEN THE RIVER LEVEL IS ABOVE THE
 ORDINARY HIGH WATER ELEVATION, ALL
 VESSELS SHOULD OPERATE NEAR THE
 SAILING LINE TO PREVENT DAMAGE TO
 RIVER BANKS AND STRUCTURES
 SITUATED THEREON OR ADJACENT
 THERETO (SEE 33 CFR 207 .300(U)).







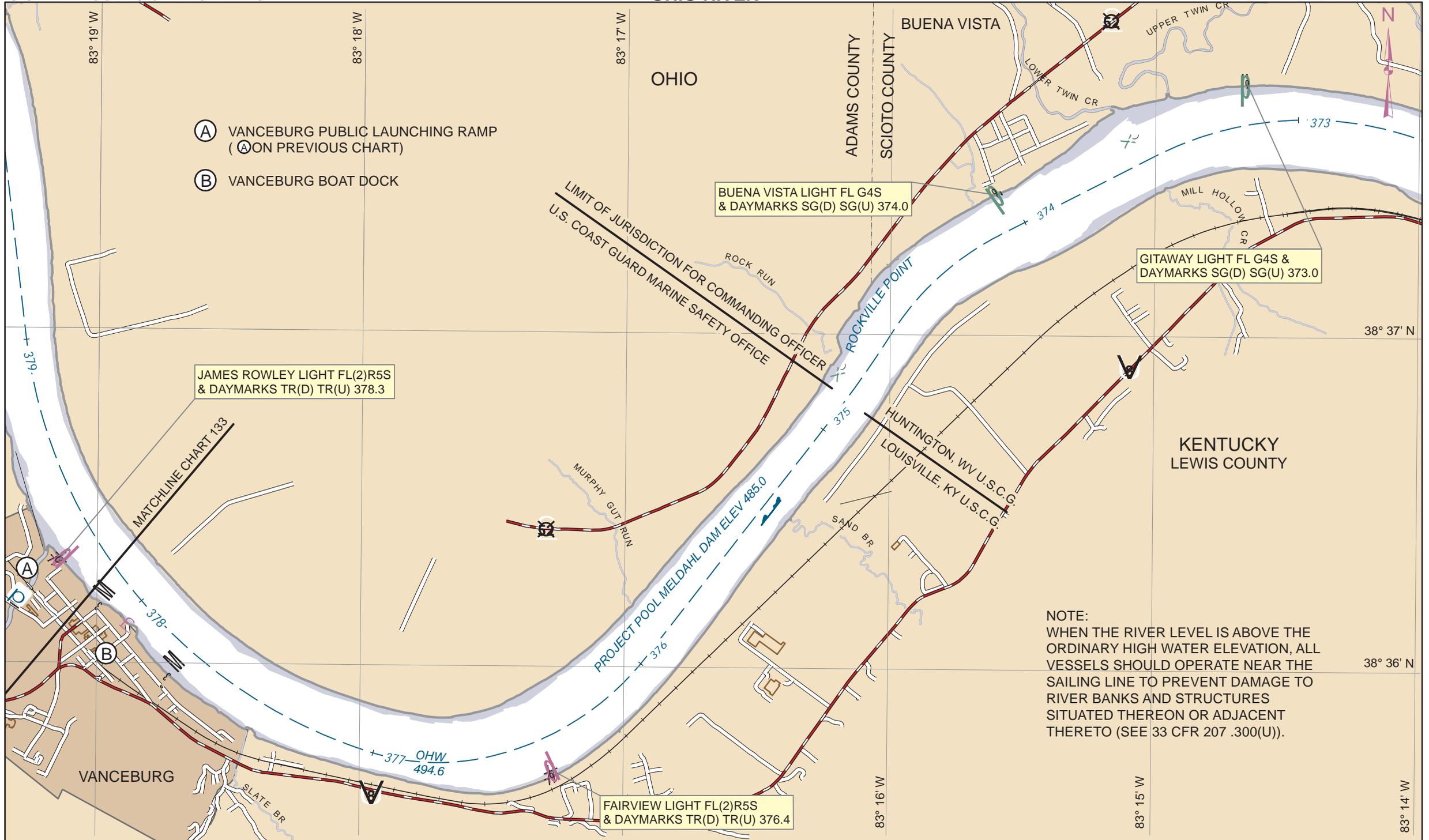


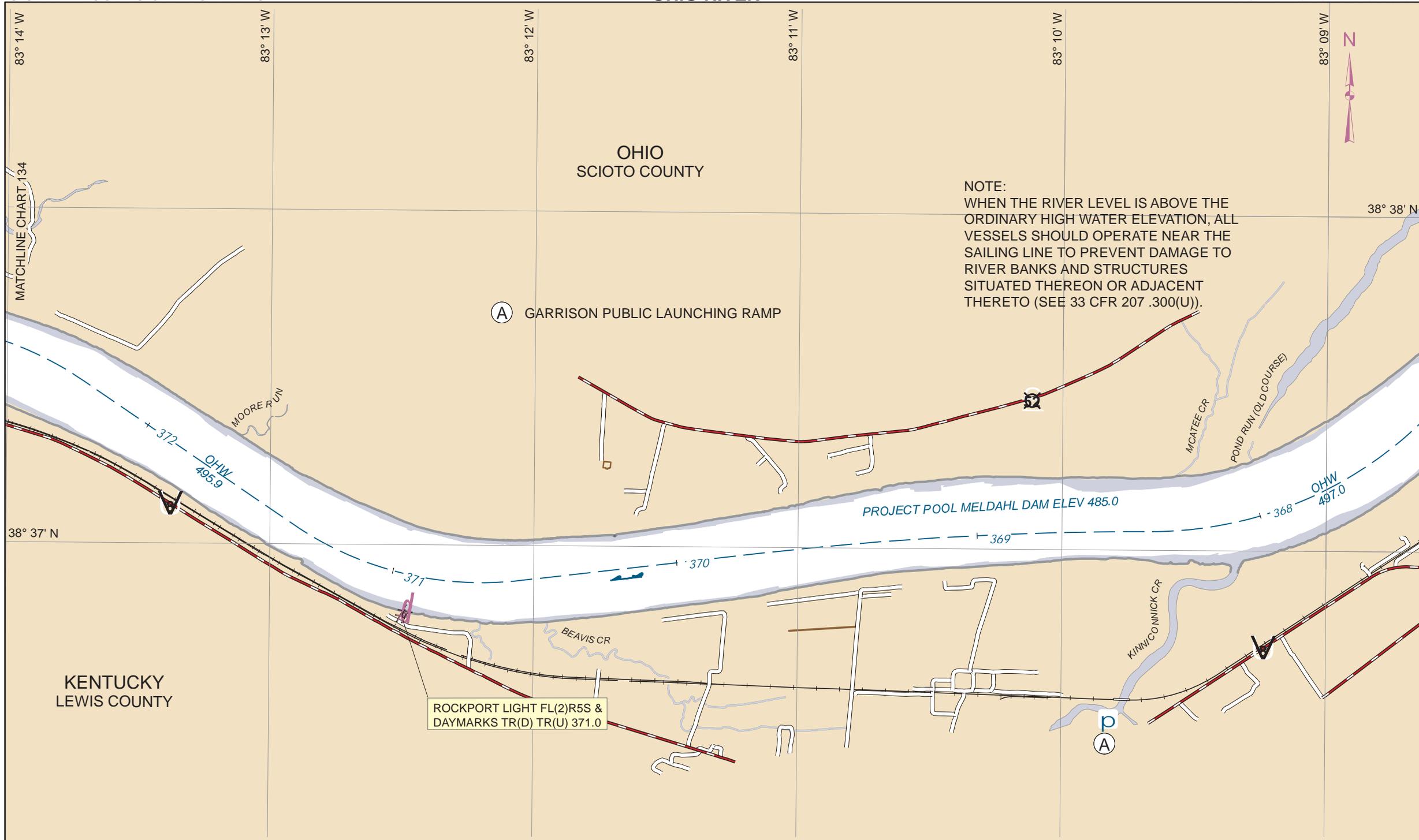
NOTE:
 OLD U.S. LOCK & DAM NO. 32, MILE 382.6,
 RIVER WALL, BEAR TRAP PIERS AND FIXED
 WEIR REMOVED TO 18.0 FEET BELOW PROJECT
 POOL. LAND WALL AND UPPER GUIDE WALL
 4.5 FEET BELOW PROJECT POOL. LOWER
 GUIDE WALL 8.0 FEET BELOW PROJECT POOL.
 ABUTMENT 7.5 FEET BELOW PROJECT POOL.

(A) VANCEBURG PUBLIC BOAT RAMP

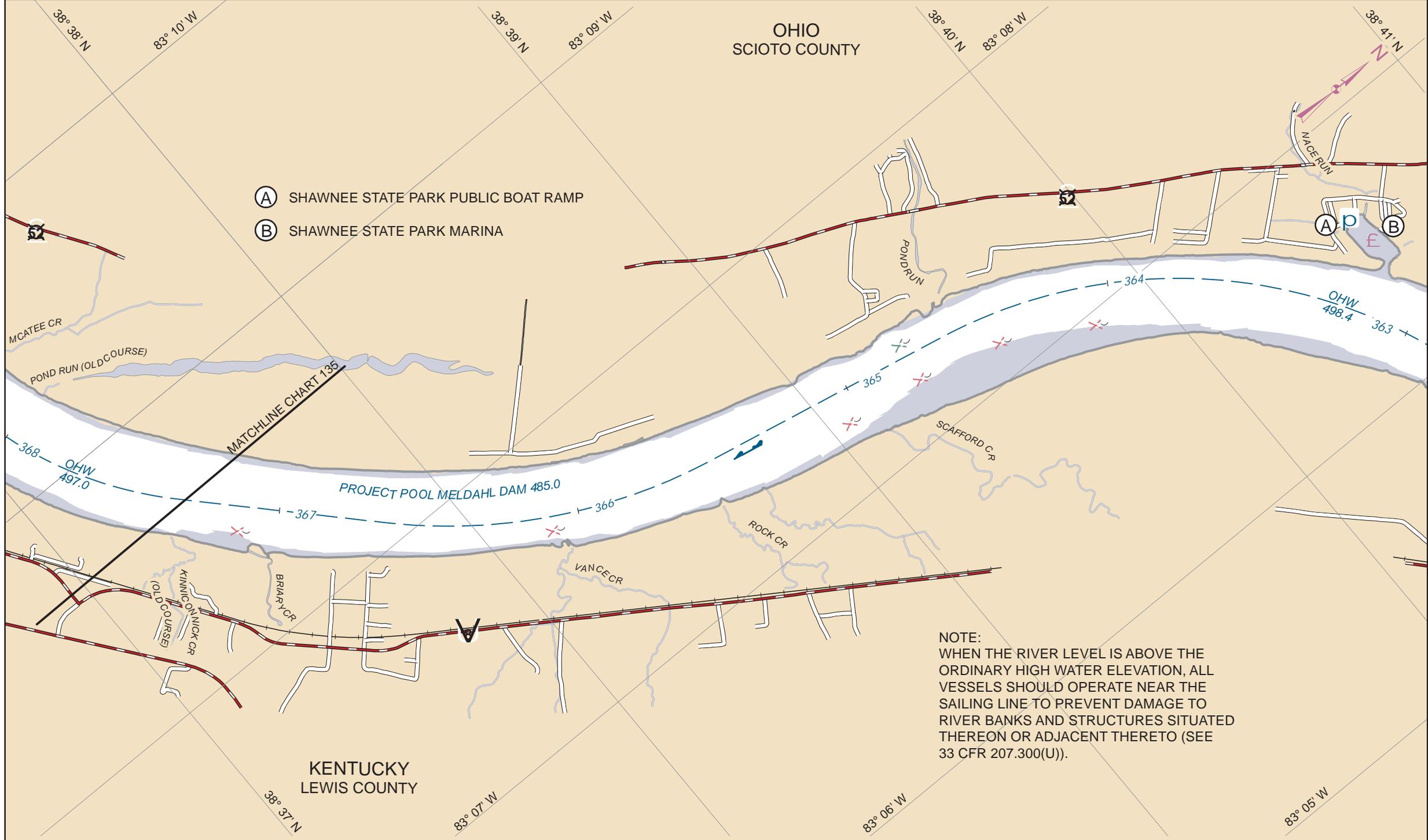
NOTE:
 WHEN THE RIVER LEVEL IS ABOVE THE
 ORDINARY HIGH WATER ELEVATION, ALL
 VESSELS SHOULD OPERATE NEAR THE
 SAILING LINE TO PREVENT DAMAGE TO
 RIVER BANKS AND STRUCTURES
 SITUATED THEREON OR ADJACENT
 THERETO (SEE 33 CFR 207 .300(U)).

JAMES ROWLEY LIGHT FL(2)R5S
 & DAYMARKS TR(D) TR(U) 378.3

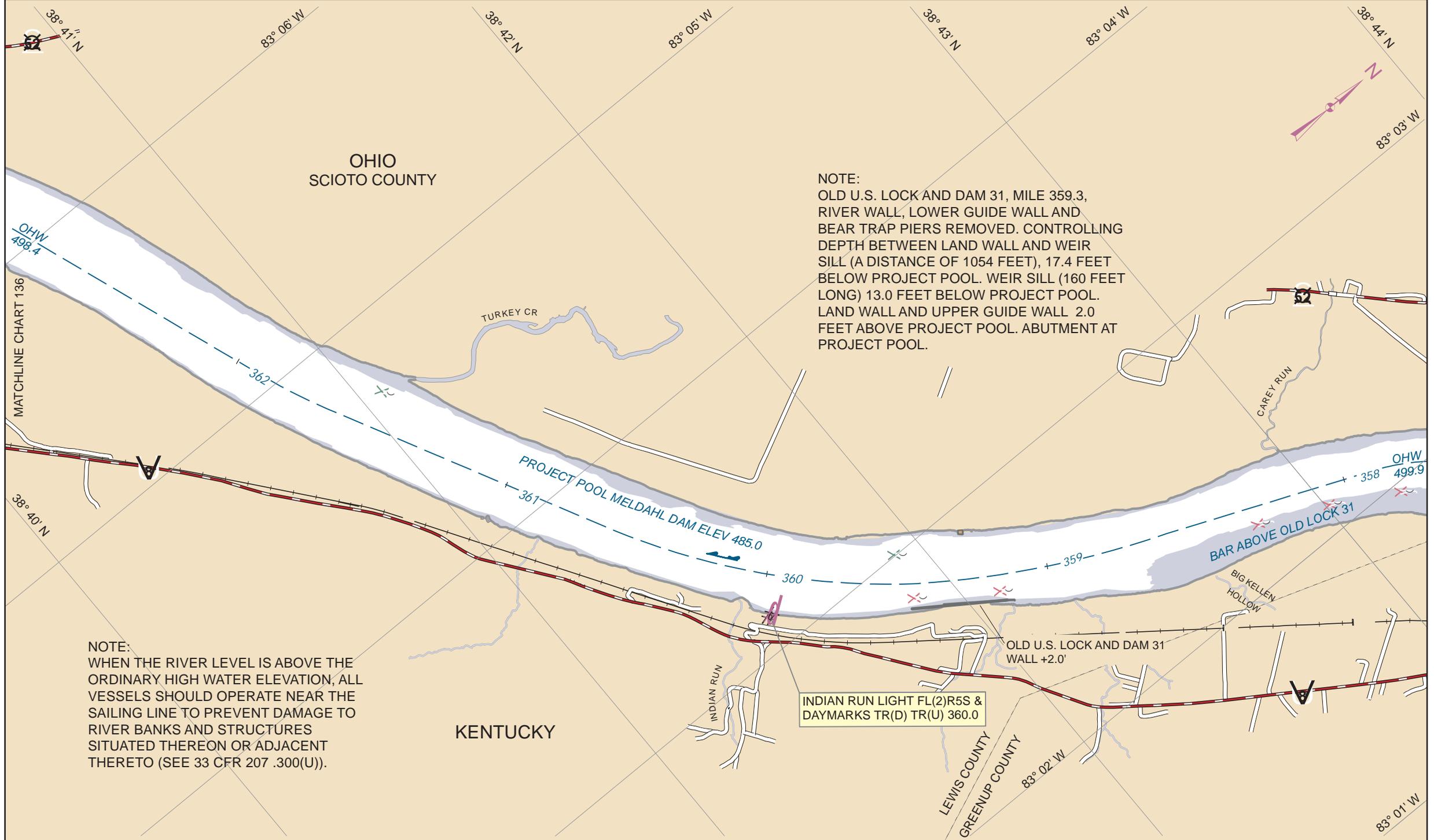




NOTE:
 WHEN THE RIVER LEVEL IS ABOVE THE
 ORDINARY HIGH WATER ELEVATION, ALL
 VESSELS SHOULD OPERATE NEAR THE
 SAILING LINE TO PREVENT DAMAGE TO
 RIVER BANKS AND STRUCTURES
 SITUATED THEREON OR ADJACENT
 THERETO (SEE 33 CFR 207 .300(U)).



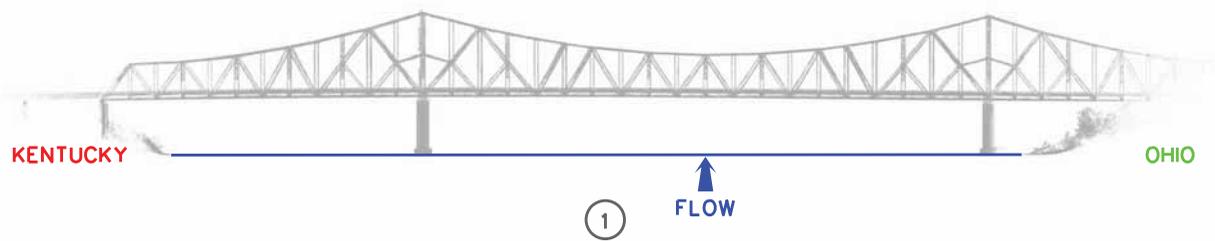
NOTE:
 WHEN THE RIVER LEVEL IS ABOVE THE
 ORDINARY HIGH WATER ELEVATION, ALL
 VESSELS SHOULD OPERATE NEAR THE
 SAILING LINE TO PREVENT DAMAGE TO
 RIVER BANKS AND STRUCTURES SITUATED
 THEREON OR ADJACENT THERETO (SEE
 33 CFR 207.300(U)).



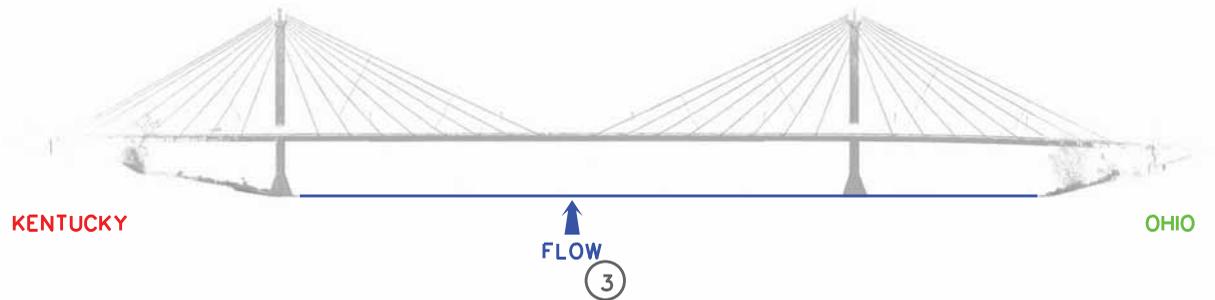
NOTE:
 OLD U.S. LOCK AND DAM 31, MILE 359.3,
 RIVER WALL, LOWER GUIDE WALL AND
 BEAR TRAP PIERS REMOVED. CONTROLLING
 DEPTH BETWEEN LAND WALL AND WEIR
 SILL (A DISTANCE OF 1054 FEET), 17.4 FEET
 BELOW PROJECT POOL. WEIR SILL (160 FEET
 LONG) 13.0 FEET BELOW PROJECT POOL.
 LAND WALL AND UPPER GUIDE WALL 2.0
 FEET ABOVE PROJECT POOL. ABUTMENT AT
 PROJECT POOL.

NOTE:
 WHEN THE RIVER LEVEL IS ABOVE THE
 ORDINARY HIGH WATER ELEVATION, ALL
 VESSELS SHOULD OPERATE NEAR THE
 SAILING LINE TO PREVENT DAMAGE TO
 RIVER BANKS AND STRUCTURES
 SITUATED THEREON OR ADJACENT
 THERETO (SEE 33 CFR 207 .300(U)).

INDIAN RUN LIGHT FL(2)R5S &
 DAYMARKS TR(D) TR(U) 360.0



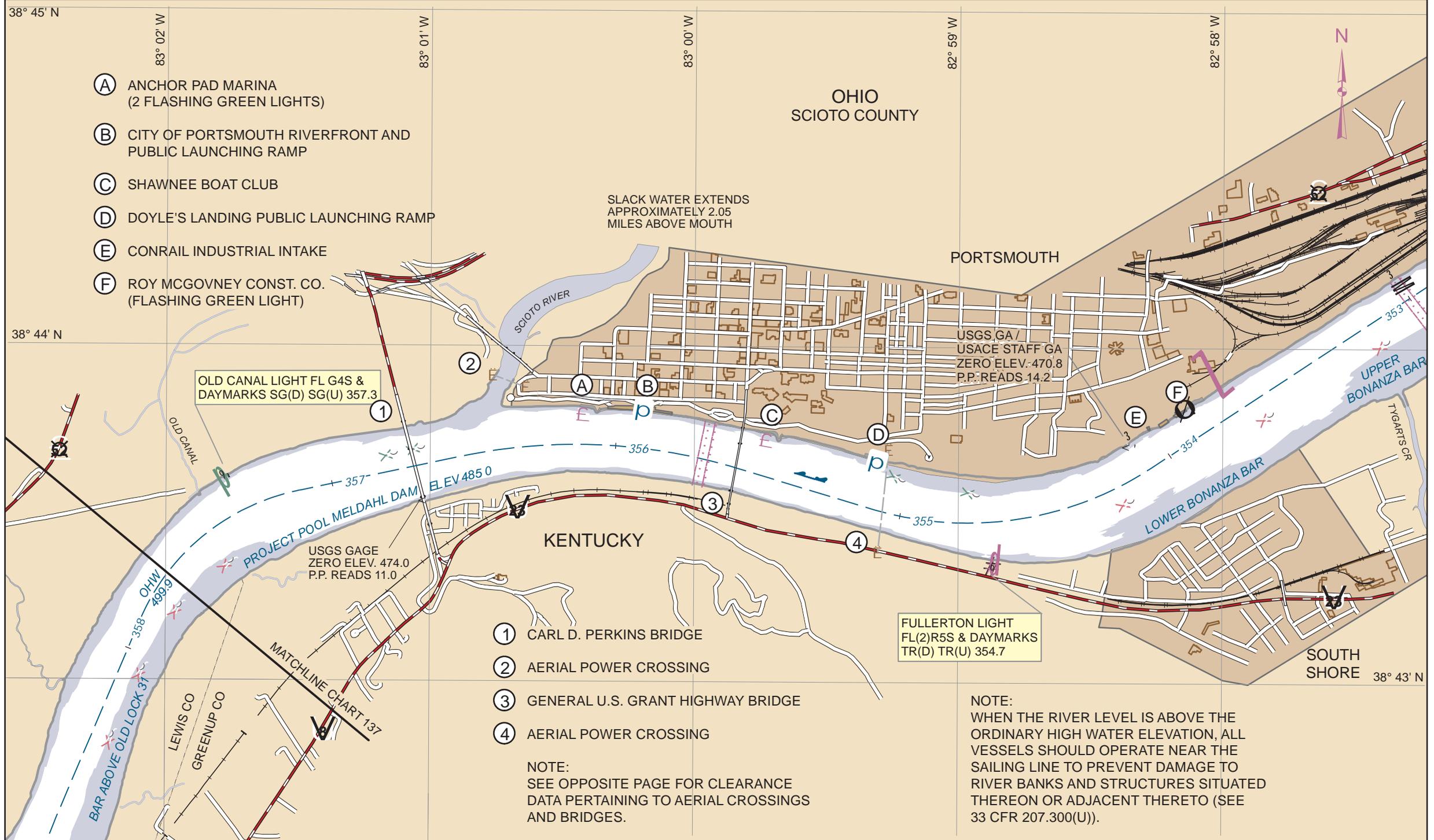
356.8 (1) CARL D. PERKINS BRIDGE
 CHANNEL SPAN
 ELEVATION OF LOW STEEL 572.5'
 VERTICAL CLEARANCE AT POOL STAGE 87.5'
 VERTICAL CLEARANCE - 1937 H.W. 28.3'
 HORIZONTAL CLEARANCE 877'

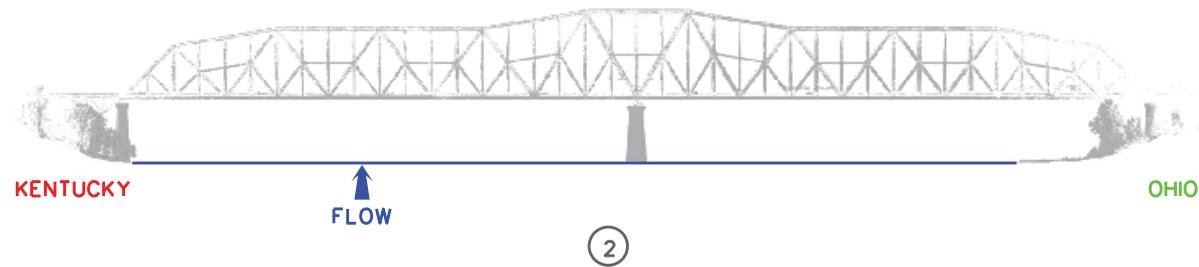


355.6 (3) GENERAL U.S. GRANT HIGHWAY BRIDGE
 CHANNEL SPAN
 ELEVATION OF LOW STEEL 569.7'
 VERTICAL CLEARANCE AT POOL STAGE 84.7'
 VERTICAL CLEARANCE - 1937 H.W. 25.5'
 HORIZONTAL CLEARANCE 700'

355.1 (4) AERIAL POWER CROSSING
 ELEVATION LOW POINT OF SAG 606.5'
 VERTICAL CLEARANCE AT POOL STAGE 121.5'
 VERTICAL CLEARANCE - 1937 H.W. 61.2'

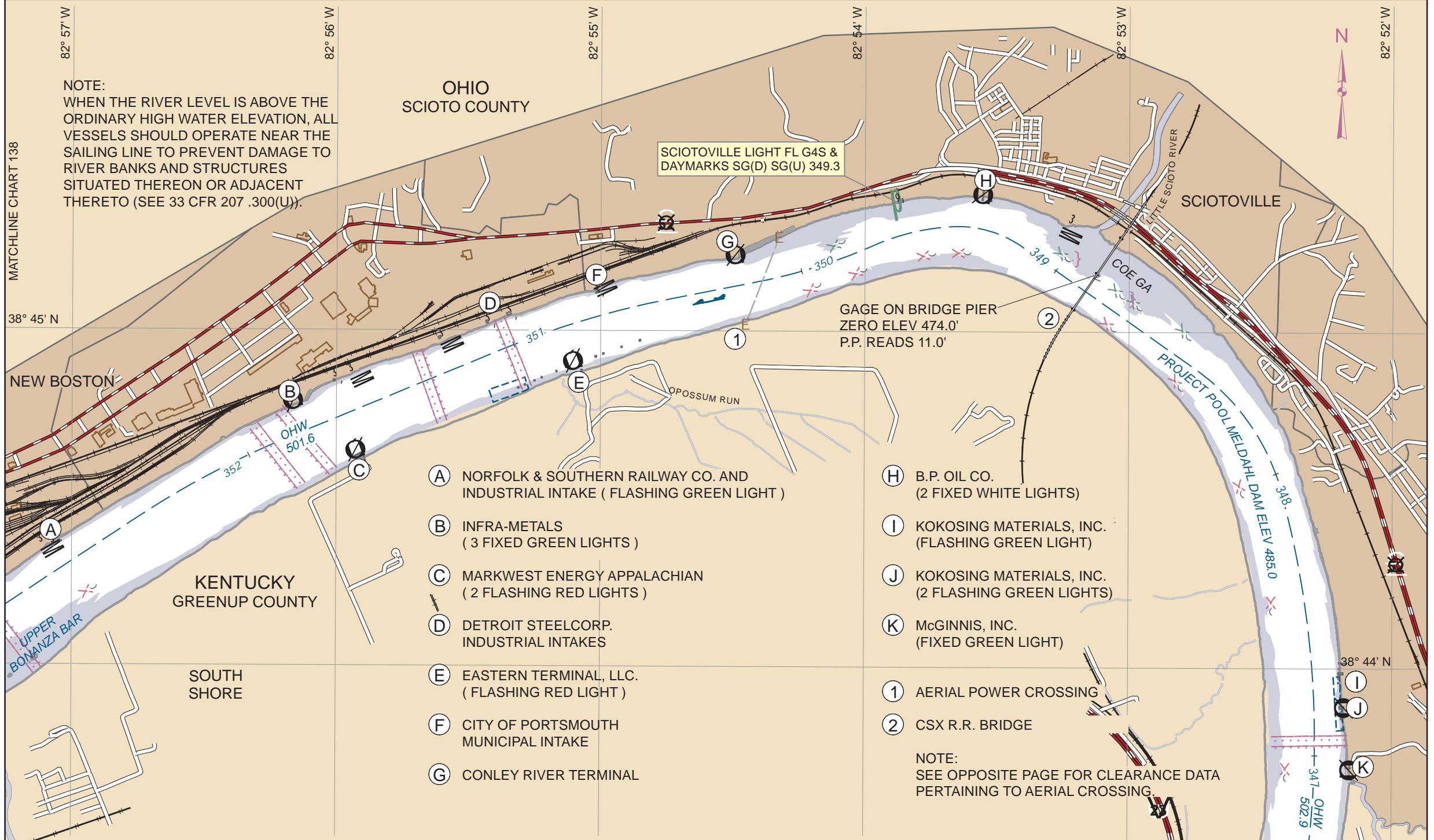
(2) AERIAL POWER CROSSING
 SCIOTO RIVER
 ELEVATION LOW POINT OF SAG 572.0'
 VERTICAL CLEARANCE AT POOL STAGE 87.0'
 VERTICAL CLEARANCE - 1937 H.W. 27.0'

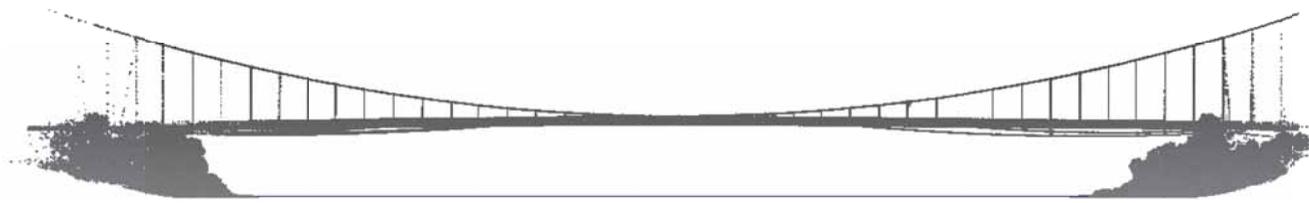




350.2 (1) AERIAL POWER CROSSING
 ELEVATION LOW POINT OF SAG 608.0'
 VERTICAL CLEARANCE AT POOL STAGE 123.0'
 VERTICAL CLEARANCE - 1937 H.W. 61.0'

348.9 (2) SCIOTOVILLE R.R. BRIDGE
 CHANNEL SPAN
 ELEVATION OF LOW STEEL 581.1'
 VERTICAL CLEARANCE AT POOL STAGE 96.1'
 VERTICAL CLEARANCE - 1937 H.W. 34.0'
 HORIZONTAL CLEARANCE 750'





KENTUCKY

↑
FLOW

OHIO

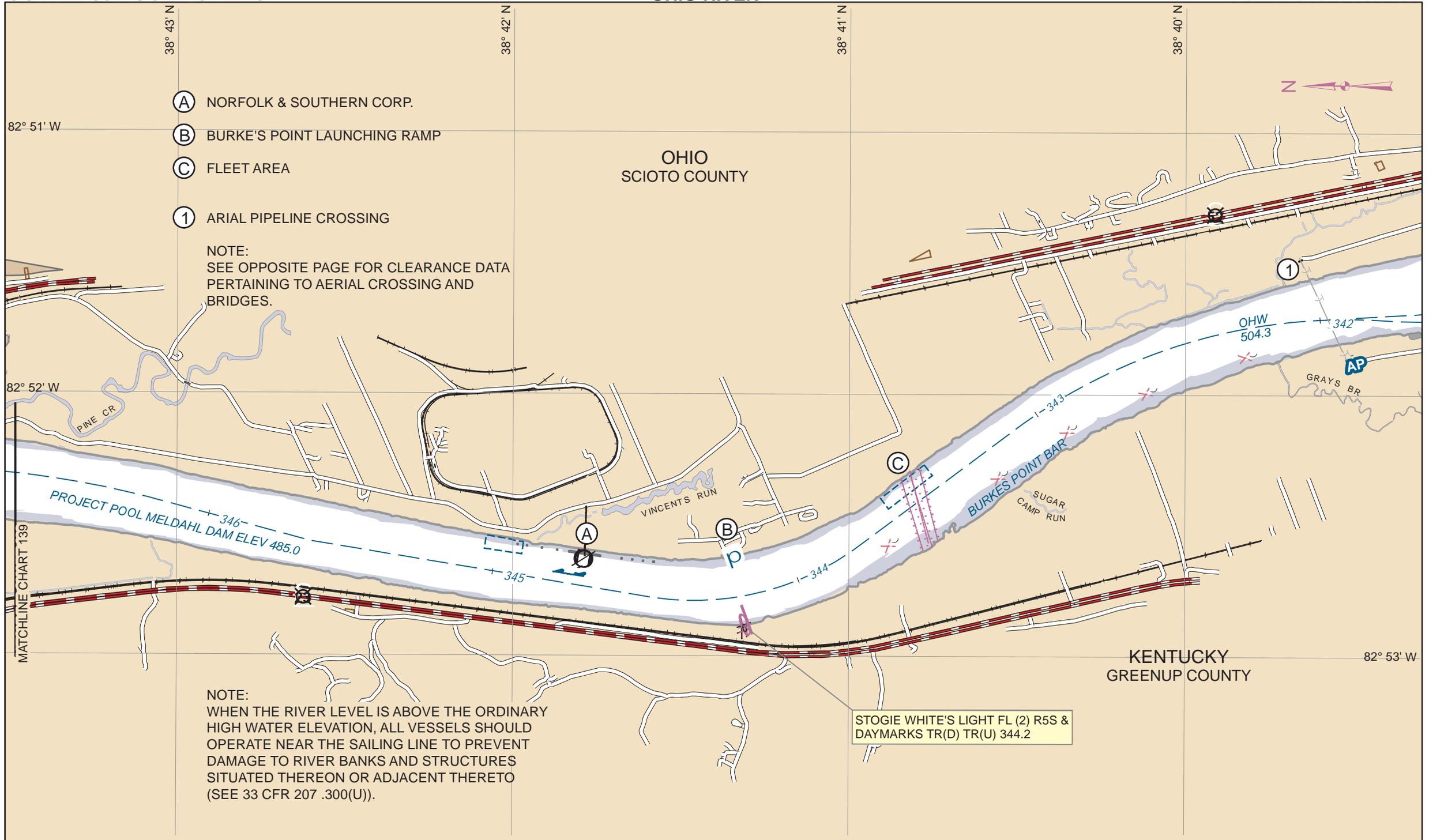
①

341.9

①

AERIAL PIPELINE CROSSING

ELEVATION OF LOWEST PIPE	579.0'
VERTICAL CLEARANCE AT POOL STAGE	94.0'
VERTICAL CLEARANCE - 1937 H.W.	29.5'
HORIZONTAL CLEARANCE	2090.0'

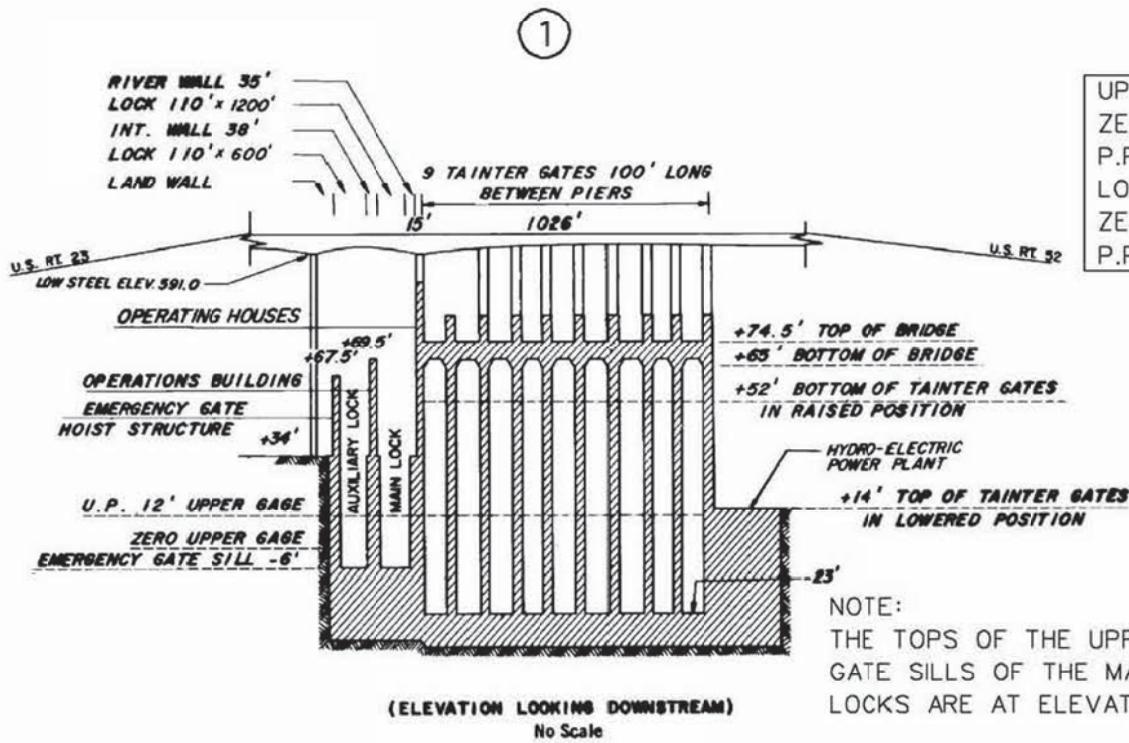


- (A) NORFOLK & SOUTHERN CORP.
- (B) BURKE'S POINT LAUNCHING RAMP
- (C) FLEET AREA
- (1) ARIAL PIPELINE CROSSING

NOTE:
SEE OPPOSITE PAGE FOR CLEARANCE DATA
PERTAINING TO AERIAL CROSSING AND
BRIDGES.

NOTE:
WHEN THE RIVER LEVEL IS ABOVE THE ORDINARY
HIGH WATER ELEVATION, ALL VESSELS SHOULD
OPERATE NEAR THE SAILING LINE TO PREVENT
DAMAGE TO RIVER BANKS AND STRUCTURES
SITUATED THEREON OR ADJACENT THERETO
(SEE 33 CFR 207 .300(U)).

STOGIE WHITE'S LIGHT FL (2) R5S &
DAYMARKS TR(D) TR(U) 344.2



UPPER GAGE	
ZERO ELEV.	503.0'
P.P. READS	12.0'
LOWER GAGE:	
ZERO ELEV.	473.0'
P.P. READS	12.0'

②

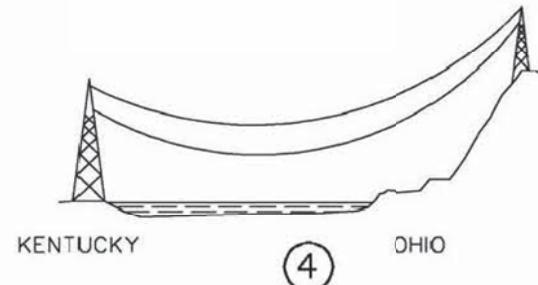
AERIAL POWER CROSSING

ELEVATION LOW POINT OF SAG	603.0'
VERTICAL CLEARANCE AT POOL STAGE	88.0'
VERTICAL CLEARANCE - 1937 H.W.	53.7'

③

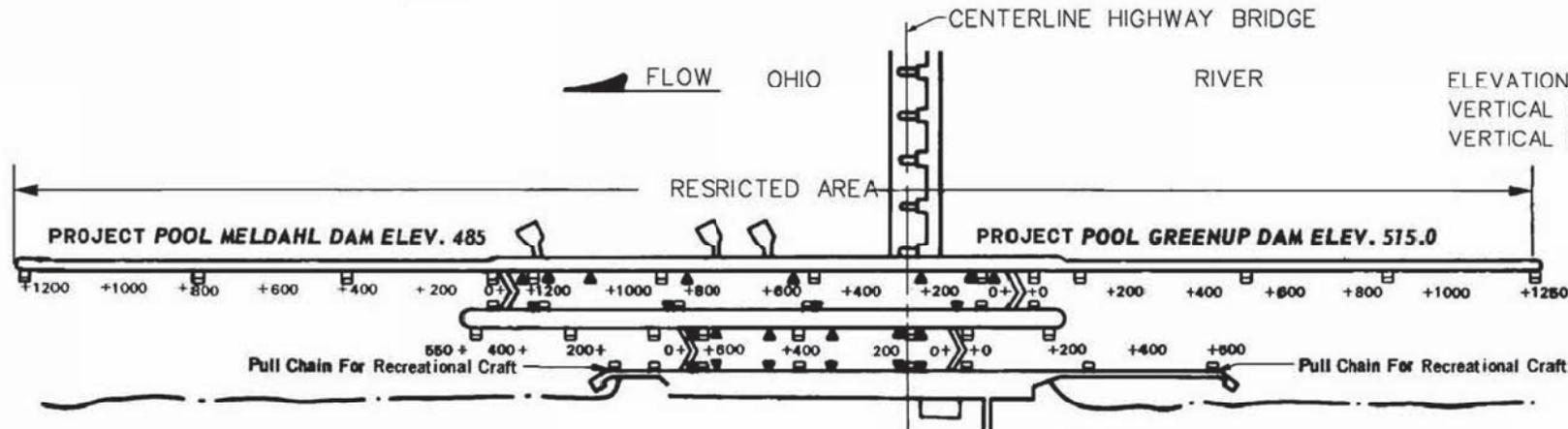
AERIAL POWER CROSSING

ELEVATION LOW POINT OF SAG	652.0'
VERTICAL CLEARANCE AT POOL STAGE	137.0'
VERTICAL CLEARANCE - 1937 H. W.	53.7'



AERIAL POWER CROSSING

ELEVATION LOW POINT OF SAG	642.3'
VERTICAL CLEARANCE AT POOL STAGE	127.3'
VERTICAL CLEARANCE - 1937 H.W.	92.3'



LEGEND

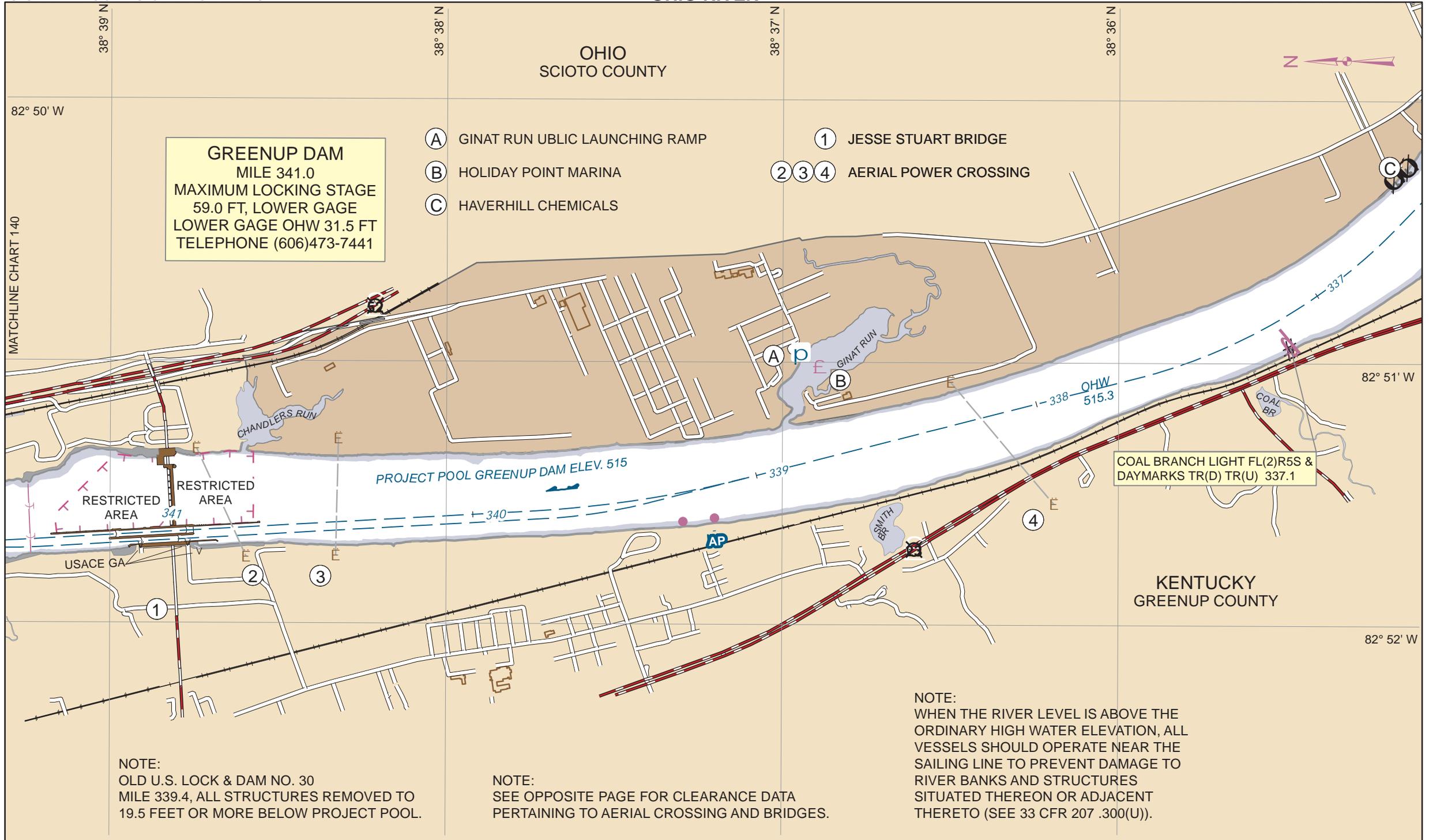
- ▲ FLOATING MOORING BIT
- ▢ LADDERS—Black and White striped.
- 200 + Distance in feet from gate.

NOTE:
 ORDINARY HIGH WATER LOW GAGE - 31.5'
 MAXIMUM LOCKING STAGE 59.0' LOWER GAGE

KENTUCKY

SCALE: 1 INCH EQUALS 400 FEET

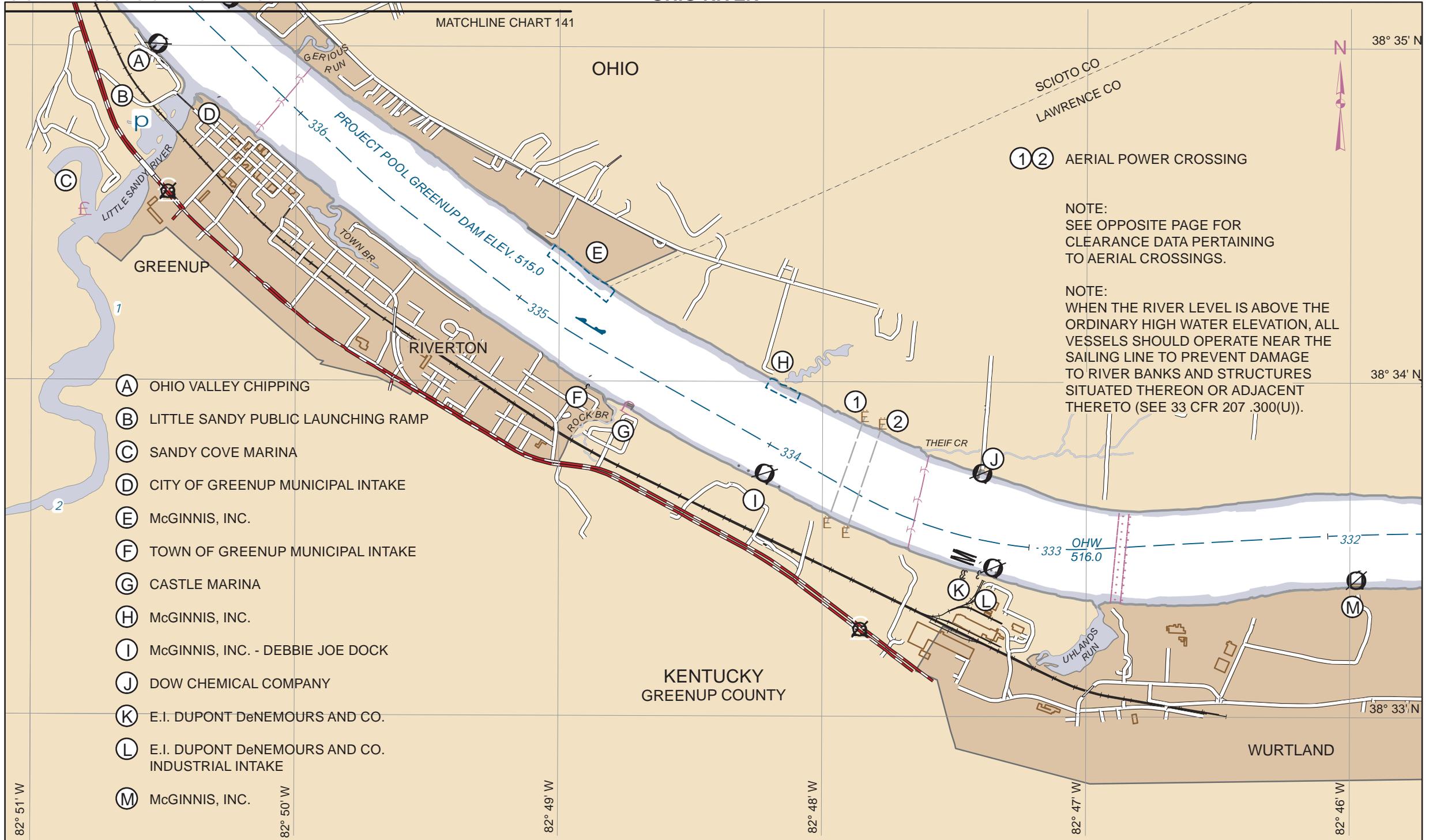
GREENUP LOCKS
 AND DAM
 MILE 341.0



333.8 ① AERIAL POWER CROSSING
ELEVATION LOW POINT OF SAG 611.0'
VERTICAL CLEARANCE AT POOL STAGE 96.0'
VERTICAL CLEARANCE - 1937 H.W. 59.4'

333.7 ② AERIAL POWER CROSSING
ELEVATION LOW POINT OF SAG 621.0'
VERTICAL CLEARANCE AT POOL STAGE 106.0'
VERTICAL CLEARANCE - 1937 H.W. 70.2'

MATCHLINE CHART 141



- (A) OHIO VALLEY CHIPPING
- (B) LITTLE SANDY PUBLIC LAUNCHING RAMP
- (C) SANDY COVE MARINA
- (D) CITY OF GREENUP MUNICIPAL INTAKE
- (E) McGINNIS, INC.
- (F) TOWN OF GREENUP MUNICIPAL INTAKE
- (G) CASTLE MARINA
- (H) McGINNIS, INC.
- (I) McGINNIS, INC. - DEBBIE JOE DOCK
- (J) DOW CHEMICAL COMPANY
- (K) E.I. DUPONT DeNEMOURS AND CO.
- (L) E.I. DUPONT DeNEMOURS AND CO. INDUSTRIAL INTAKE
- (M) McGINNIS, INC.

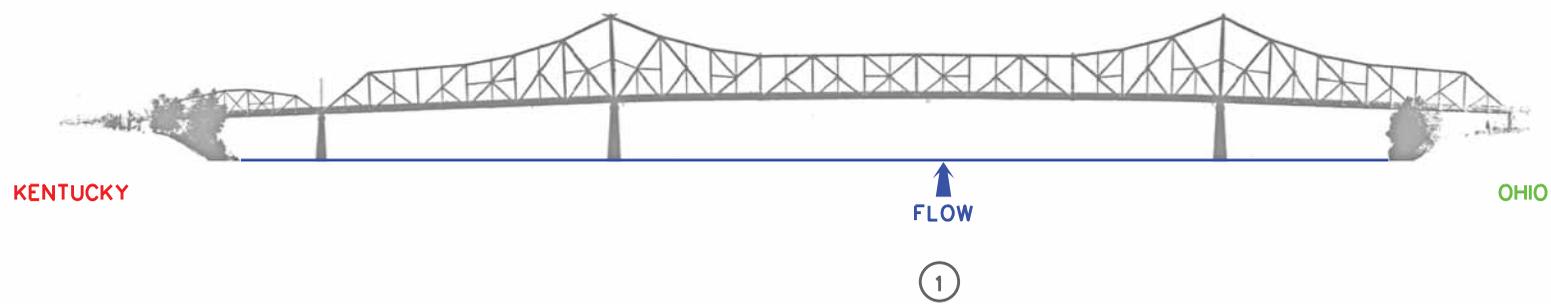
(1)(2) AERIAL POWER CROSSING

NOTE:
SEE OPPOSITE PAGE FOR
CLEARANCE DATA PERTAINING
TO AERIAL CROSSINGS.

NOTE:
WHEN THE RIVER LEVEL IS ABOVE THE
ORDINARY HIGH WATER ELEVATION, ALL
VESSELS SHOULD OPERATE NEAR THE
SAILING LINE TO PREVENT DAMAGE
TO RIVER BANKS AND STRUCTURES
SITUATED THEREON OR ADJACENT
THERETO (SEE 33 CFR 207 .300(U)).

82° 51' W 82° 50' W 82° 49' W 82° 48' W 82° 47' W 82° 46' W

38° 35' N 38° 34' N 38° 33' N

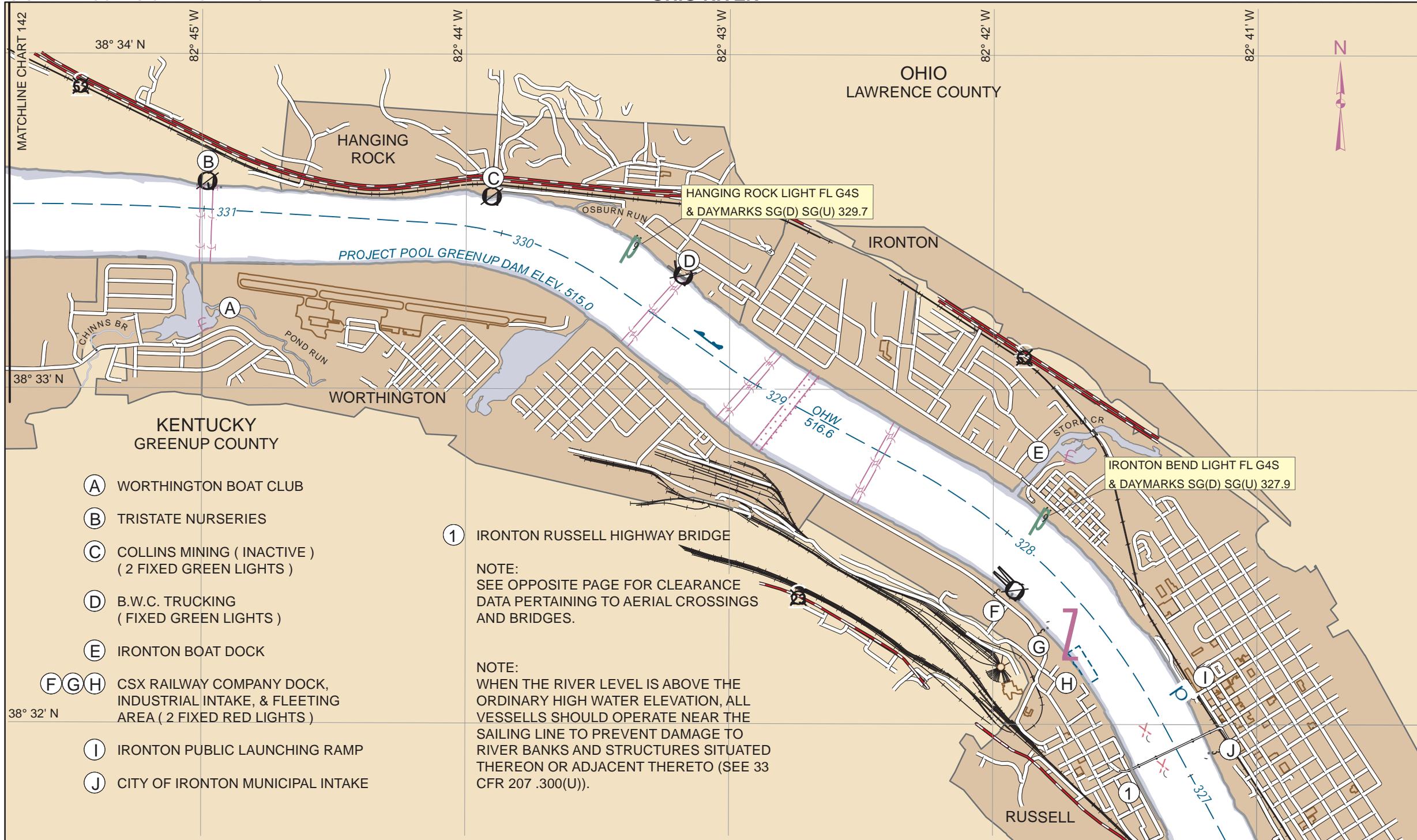


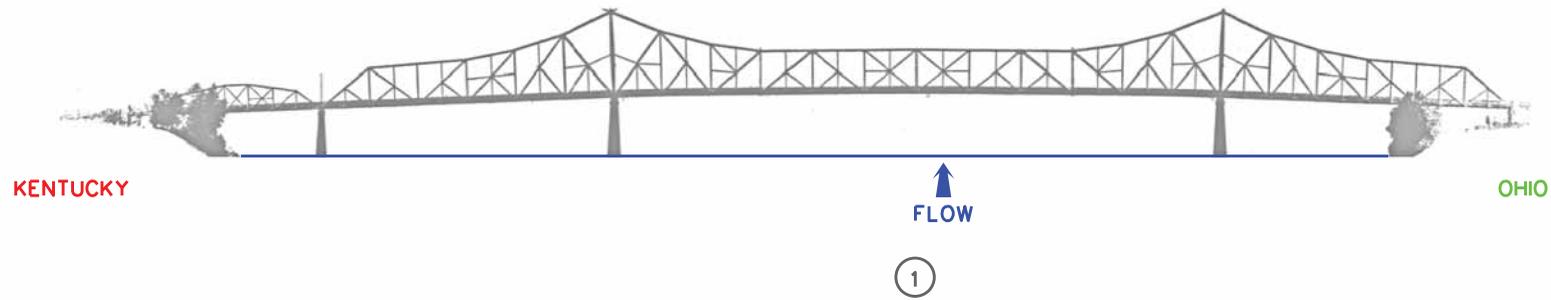
327.2 ①

IRONTON - RUSSELL HIGHWAY BRIDGE
CHANNEL SPAN

ELEVATION OF LOW STEEL
VERTICAL CLEARANCE AT POOL STAGE
VERTICAL CLEARANCE - 1937 H.W.
HORIZONTAL CLEARANCE

587.8'
72.8'
34.2'
705'



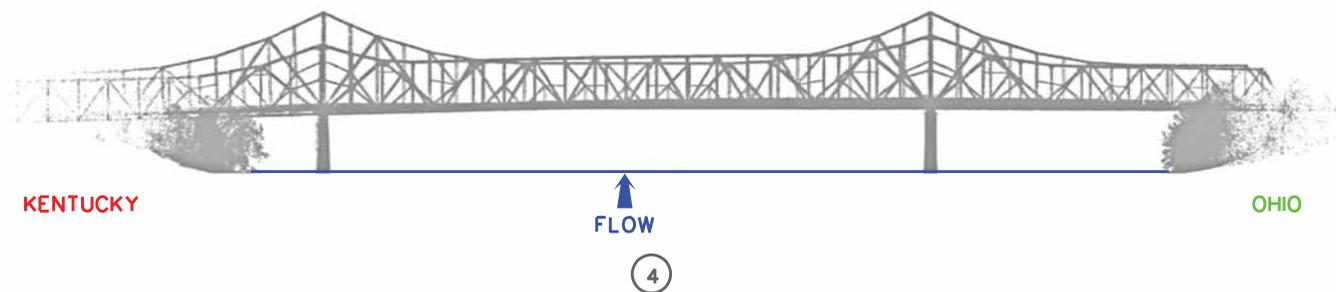


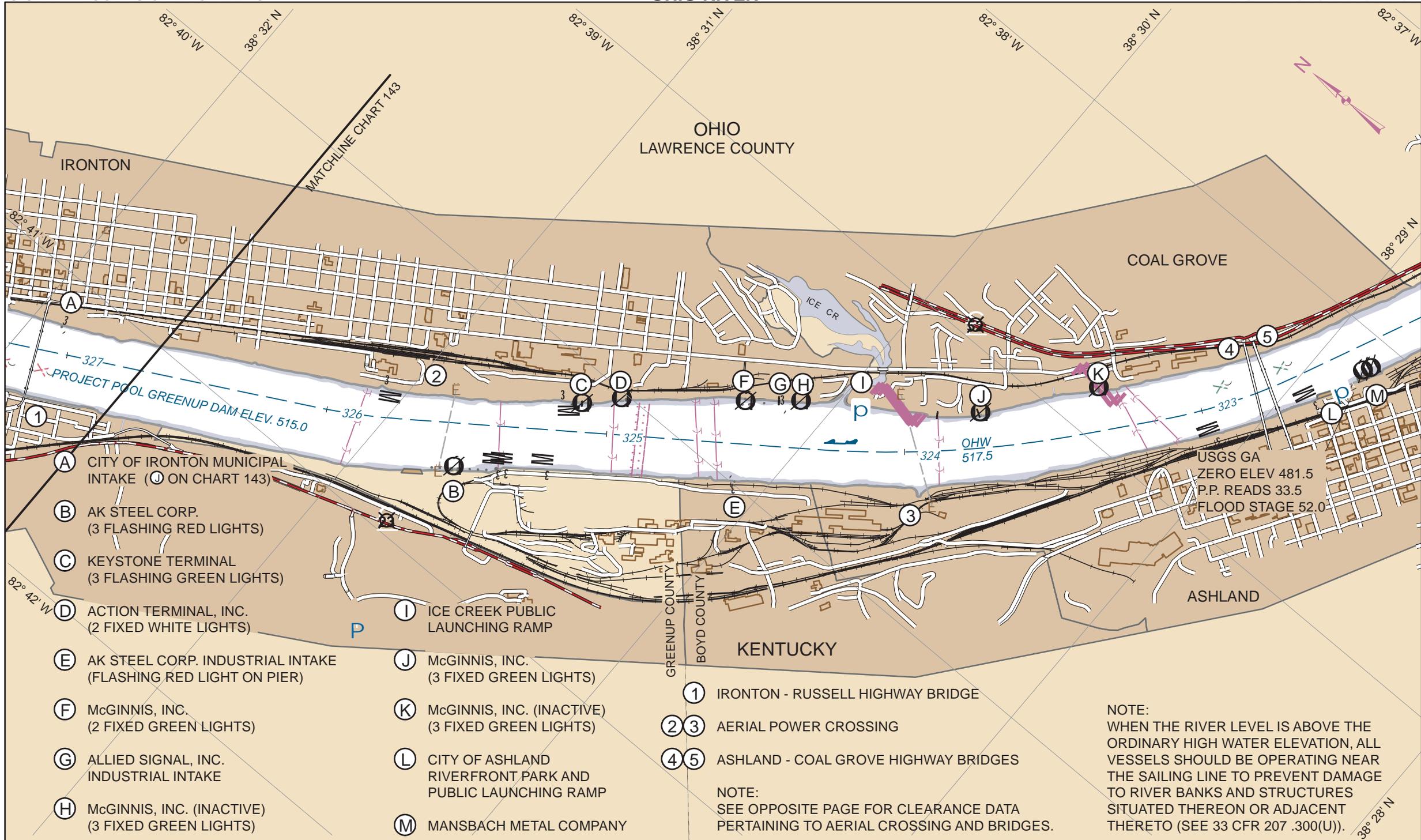
	①	IRONTON - RUSSEL HIGHWAY BRIDGE	
327.2		CHANNEL SPAN	
		ELEVATION OF LOW STEEL	587.8'
		VERTICAL CLEARANCE AT POOL STAGE	72.8'
		VERTICAL CLEARANCE - 1937 H.W.	34.2'
		HORIZONTAL CLEARANCE	705'

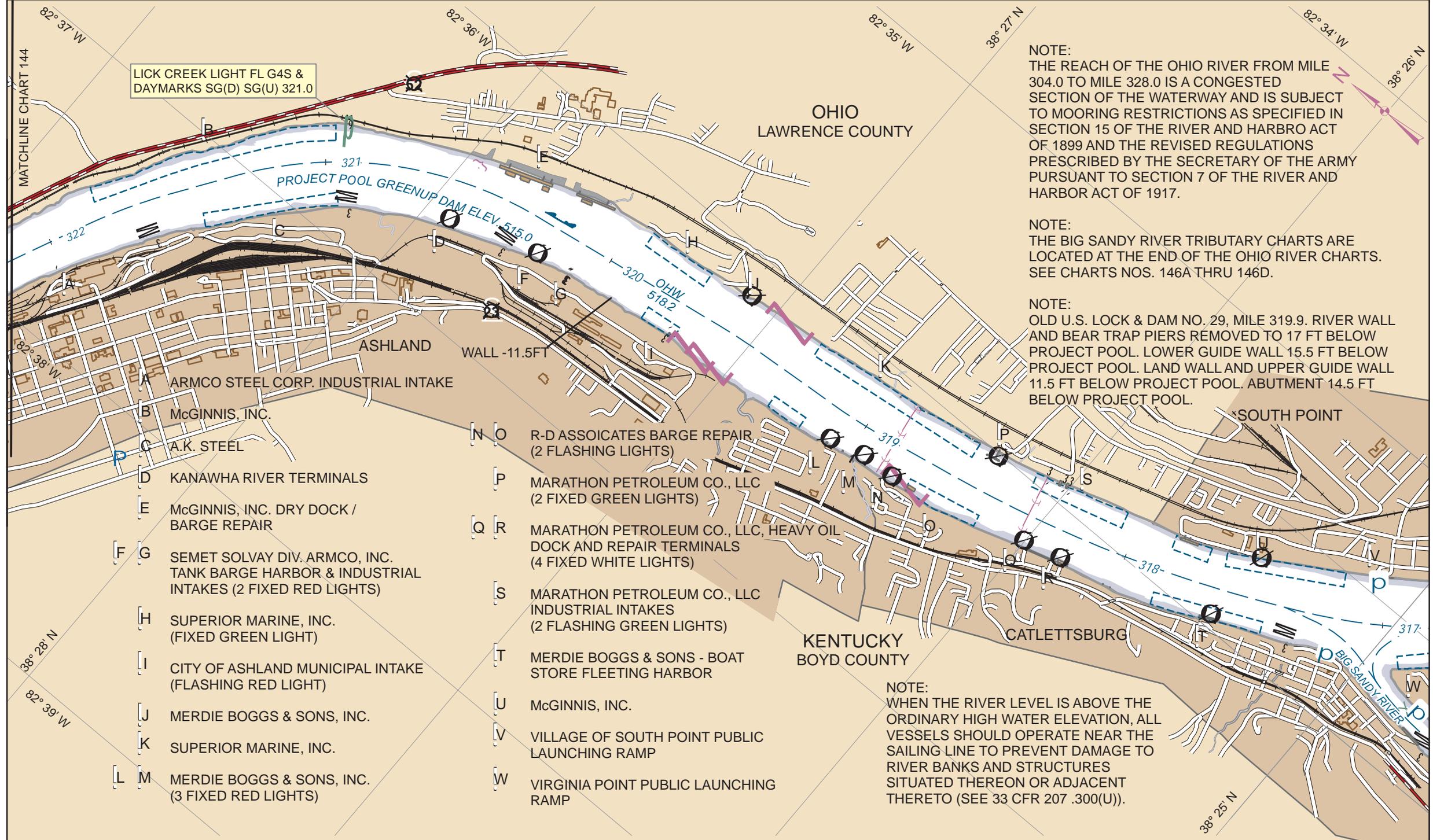
	②	AERIAL POWER CROSSING	
325.7		ELEVATION LOW POINT OF SAG	606.1'
		VERTICAL CLEARANCE AT POOL STAGE	91.1'
		VERTICAL CLEARANCE - 1937 H.W.	51.9'

	③	AERIAL POWER CROSSING	
323.9		ELEVATION LOW POINT OF SAG	604.5'
		VERTICAL CLEARANCE AT POOL STAGE	89.5'
		VERTICAL CLEARANCE - 1937 H.W.	49.2'

	④	ASHLAND - COAL GROVE HIGHWAY TWIN BRIDGES	
322.8		CHANNEL SPAN	
		ELEVATION OF LOW STEEL (U.S.)	592.0'
		ELEVATION OF LOW STEEL (D.S.)	584.3'
		VERTICAL CLEARANCE AT POOL STAGE (U.S.)	77.0'
		VERTICAL CLEARANCE AT POOL STAGE (D.S.)	69.3'
		VERTICAL CLEARANCE - 1937 H.W. (U.S.)	36.5'
		VERTICAL CLEARANCE - 1937 H.W. (D.S.)	28.8'
		HORIZONTAL CLEARANCE (U.S.)	722'
		HORIZONTAL CLEARANCE (D.S.)	722'







LICK CREEK LIGHT FL G4S & DAYMARKS SG(D) SG(U) 321.0

NOTE:
THE REACH OF THE OHIO RIVER FROM MILE 304.0 TO MILE 328.0 IS A CONGESTED SECTION OF THE WATERWAY AND IS SUBJECT TO MOORING RESTRICTIONS AS SPECIFIED IN SECTION 15 OF THE RIVER AND HARBOR ACT OF 1899 AND THE REVISED REGULATIONS PRESCRIBED BY THE SECRETARY OF THE ARMY PURSUANT TO SECTION 7 OF THE RIVER AND HARBOR ACT OF 1917.

NOTE:
THE BIG SANDY RIVER TRIBUTARY CHARTS ARE LOCATED AT THE END OF THE OHIO RIVER CHARTS. SEE CHARTS NOS. 146A THRU 146D.

NOTE:
OLD U.S. LOCK & DAM NO. 29, MILE 319.9. RIVER WALL AND BEAR TRAP PIERS REMOVED TO 17 FT BELOW PROJECT POOL. LOWER GUIDE WALL 15.5 FT BELOW PROJECT POOL. LAND WALL AND UPPER GUIDE WALL 11.5 FT BELOW PROJECT POOL. ABUTMENT 14.5 FT BELOW PROJECT POOL.

NOTE:
WHEN THE RIVER LEVEL IS ABOVE THE ORDINARY HIGH WATER ELEVATION, ALL VESSELS SHOULD OPERATE NEAR THE SAILING LINE TO PREVENT DAMAGE TO RIVER BANKS AND STRUCTURES SITUATED THEREON OR ADJACENT THERETO (SEE 33 CFR 207 .300(U)).

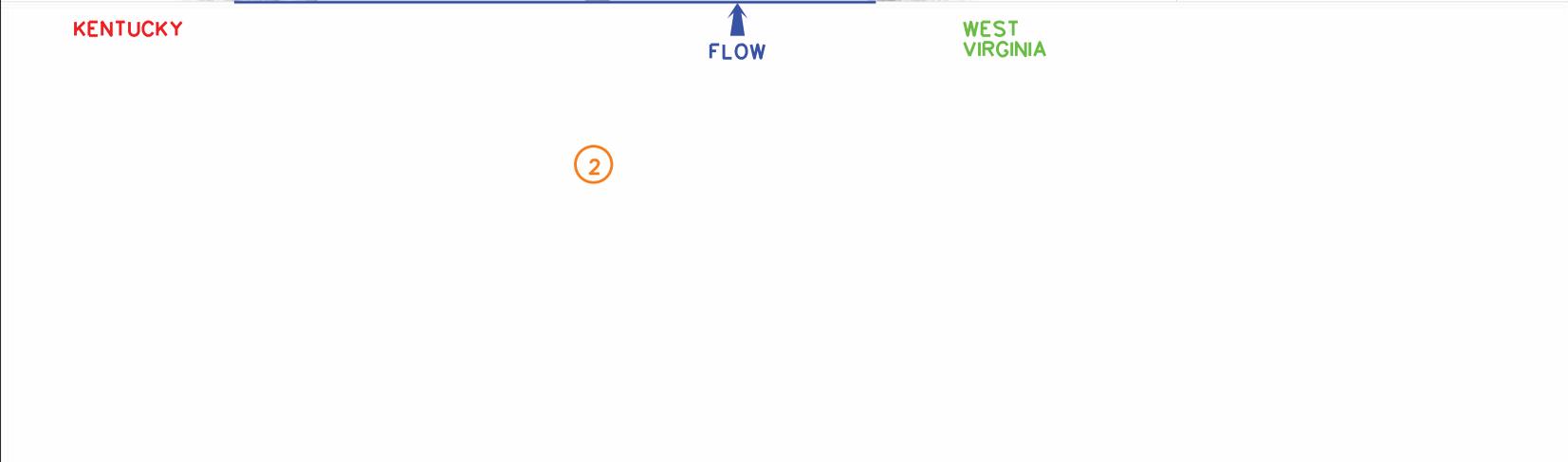
- A ARMCO STEEL CORP. INDUSTRIAL INTAKE
- B MCGINNIS, INC.
- C A.K. STEEL
- D KANAWHA RIVER TERMINALS
- E MCGINNIS, INC. DRY DOCK / BARGE REPAIR
- F G SEMET SOLVAY DIV. ARMCO, INC. TANK BARGE HARBOR & INDUSTRIAL INTAKES (2 FIXED RED LIGHTS)
- H SUPERIOR MARINE, INC. (FIXED GREEN LIGHT)
- I CITY OF ASHLAND MUNICIPAL INTAKE (FLASHING RED LIGHT)
- J MERDIE BOGGS & SONS, INC.
- K SUPERIOR MARINE, INC.
- L M MERDIE BOGGS & SONS, INC. (3 FIXED RED LIGHTS)
- N O R-D ASSOCIATES BARGE REPAIR (2 FLASHING LIGHTS)
- P MARATHON PETROLEUM CO., LLC (2 FIXED GREEN LIGHTS)
- Q R MARATHON PETROLEUM CO., LLC, HEAVY OIL DOCK AND REPAIR TERMINALS (4 FIXED WHITE LIGHTS)
- S MARATHON PETROLEUM CO., LLC INDUSTRIAL INTAKES (2 FLASHING GREEN LIGHTS)
- T MERDIE BOGGS & SONS - BOAT STORE FLEETING HARBOR
- U MCGINNIS, INC.
- V VILLAGE OF SOUTH POINT PUBLIC LAUNCHING RAMP
- W VIRGINIA POINT PUBLIC LAUNCHING RAMP



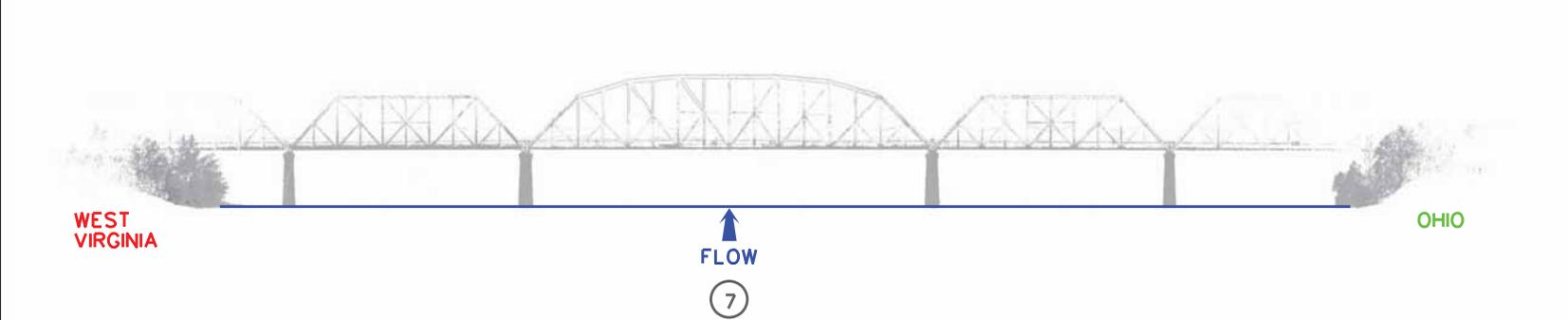
<p>①</p> <p>0.8 BIG SANDY RIVER</p>	<p>CATLETTSBURG - KENOVA HIGHWAY BRIDGE</p> <p>CHANNEL SPAN</p> <p>ELEVATION OF LOW STEEL 578.0'</p> <p>VERTICAL CLEARANCE AT POOL STAGE 63.0'</p> <p>VERTICAL CLEARANCE - 1937 H.W. 13.7'</p> <p>HORIZONTAL CLEARANCE 200'</p>
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<p>②</p> <p>0.9 BIG SANDY RIVER</p>	<p>CSX RAILROAD BRIDGE</p> <p>CHANNEL SPAN</p> <p>ELEVATION OF LOW STEEL 564.6'</p> <p>VERTICAL CLEARANCE AT POOL STAGE 49.6'</p> <p>VERTICAL CLEARANCE - 1937 H.W. 6.6'</p> <p>HORIZONTAL CLEARANCE 178'</p>
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<p>③</p> <p>0.8 BIG SANDY RIVER</p>	<p>AERIAL POWER CROSSING</p> <p>ELEVATION LOW POINT OF SAG 585.3'</p> <p>VERTICAL CLEARANCE AT POOL STAGE 70.3'</p> <p>VERTICAL CLEARANCE - 1937 H.W. 27.3'</p>
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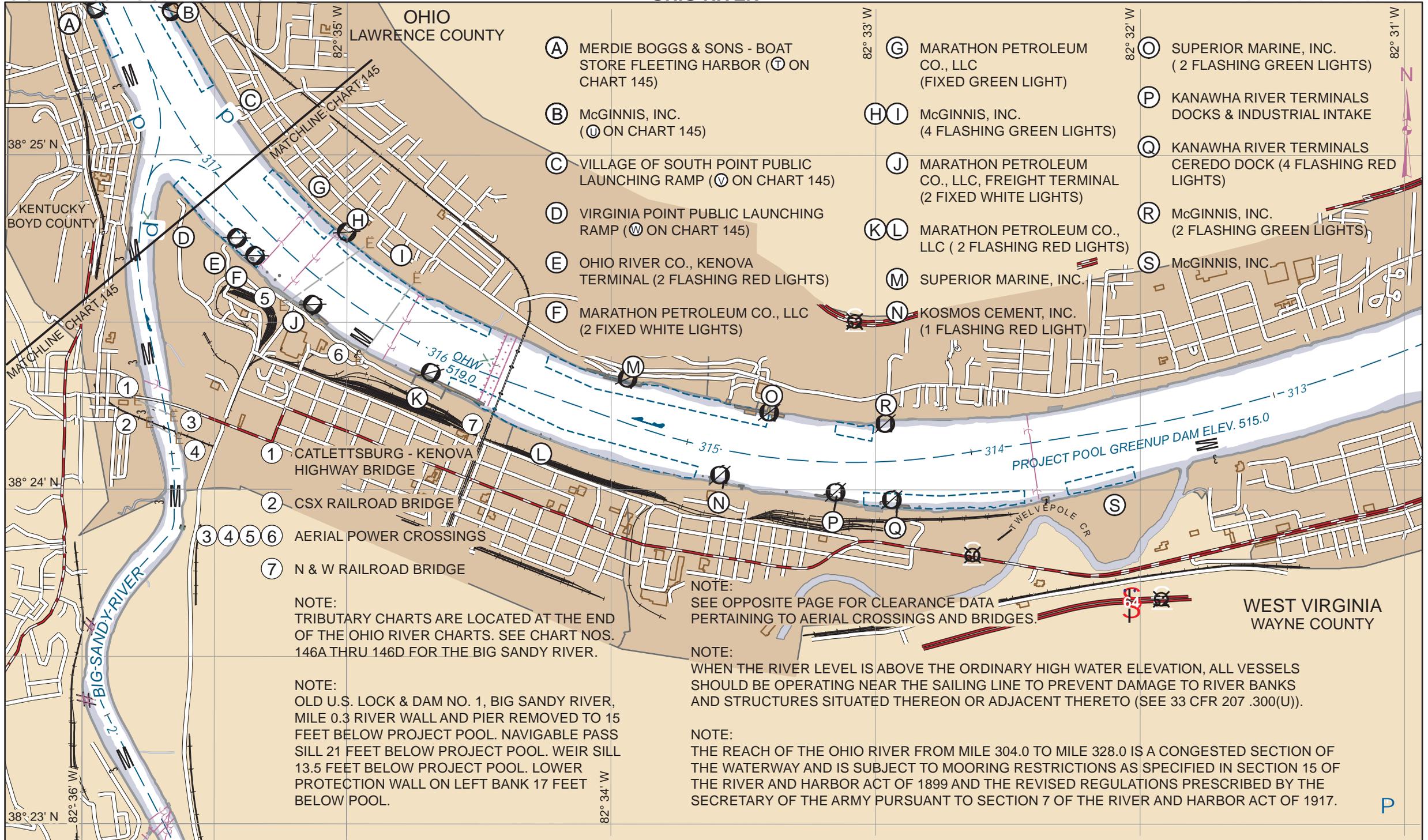


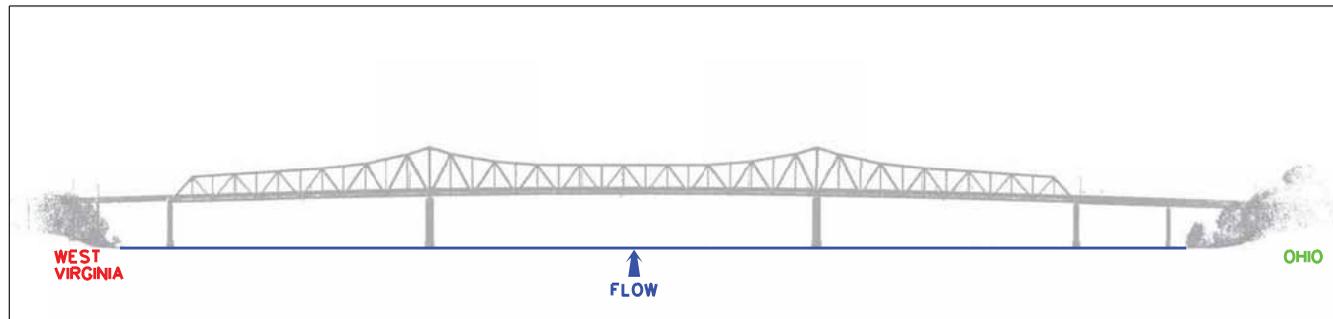
<p>④</p> <p>0.9 BIG SANDY RIVER</p>	<p>AERIAL TELEPHONE CROSSING</p> <p>ELEVATION LOW POINT OF SAG 579.0'</p> <p>VERTICAL CLEARANCE AT POOL STAGE 64.0'</p> <p>VERTICAL CLEARANCE - 1937 H.W. 21.0'</p>
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<p>⑤</p> <p>316.5</p>	<p>AERIAL POWER CROSSING</p> <p>ELEVATION LOW POINT OF SAG 632.3'</p> <p>VERTICAL CLEARANCE AT POOL STAGE 117.3'</p> <p>VERTICAL CLEARANCE - 1937 H.W. 74.3'</p>
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<p>⑥</p> <p>316.2</p>	<p>AERIAL POWER CROSSING</p> <p>ELEVATION LOW POINT OF SAG 616.5'</p> <p>VERTICAL CLEARANCE AT POOL STAGE 101.5'</p> <p>VERTICAL CLEARANCE - 1937 H.W. 58.5'</p>
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<p>⑦</p> <p>315.7</p>	<p>N&W RAILROAD BRIDGE</p> <p>CHANNEL SPAN</p> <p>ELEVATION OF LOW STEEL 589.1'</p> <p>VERTICAL CLEARANCE AT POOL STAGE 74.1'</p> <p>VERTICAL CLEARANCE - 1937 H.W. 30.4'</p> <p>HORIZONTAL CLEARANCE 500'</p>
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310.7

① HUNTINGTON WEST END HIGHWAY BRIDGE

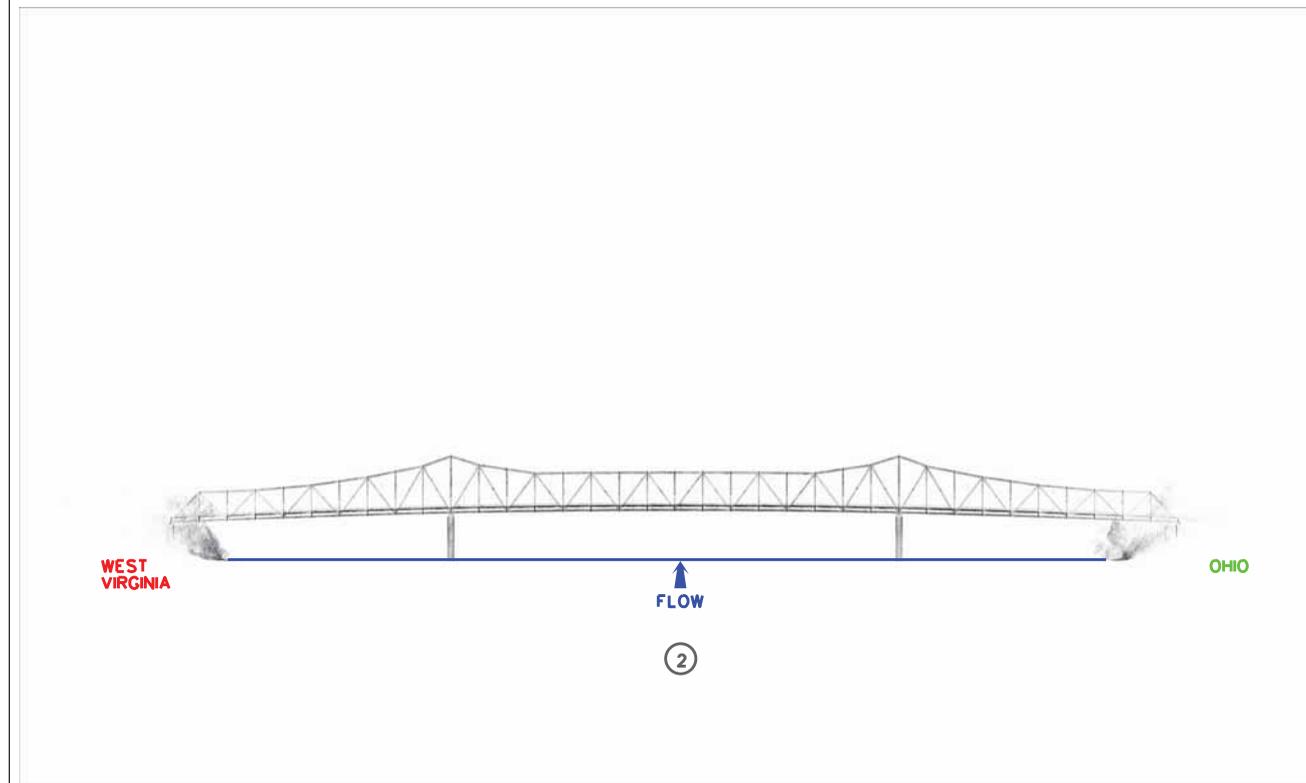
CHANNEL SPAN

ELEVATION OF LOW STEEL 588.9'

VERTICAL CLEARANCE AT POOL STAGE 73.9'

VERTICAL CLEARANCE - 1937 H.W. 28.9'

HORIZONTAL CLEARANCE 550'



308.7

② ROBERT C. BYRD HIGHWAY BRIDGE

CHANNEL SPAN

ELEVATION OF LOW STEEL 591.7'

VERTICAL CLEARANCE AT POOL STAGE 76.7'

VERTICAL CLEARANCE - 1937 H.W. 31.2'

HORIZONTAL CLEARANCE 711.0'

③ STATE ROUTE SEVEN HIGHWAY BRIDGE

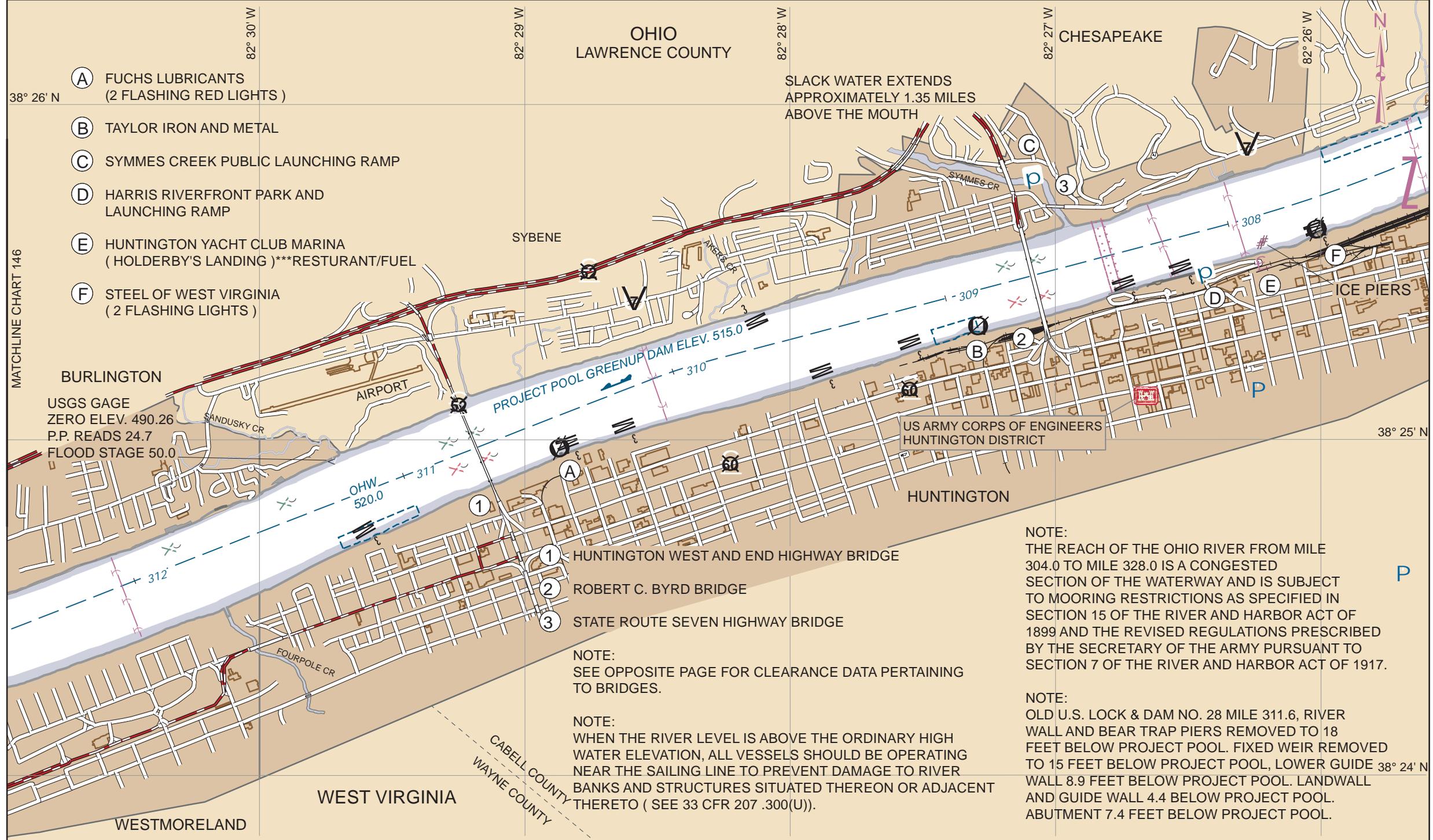
SYMMES CREEK

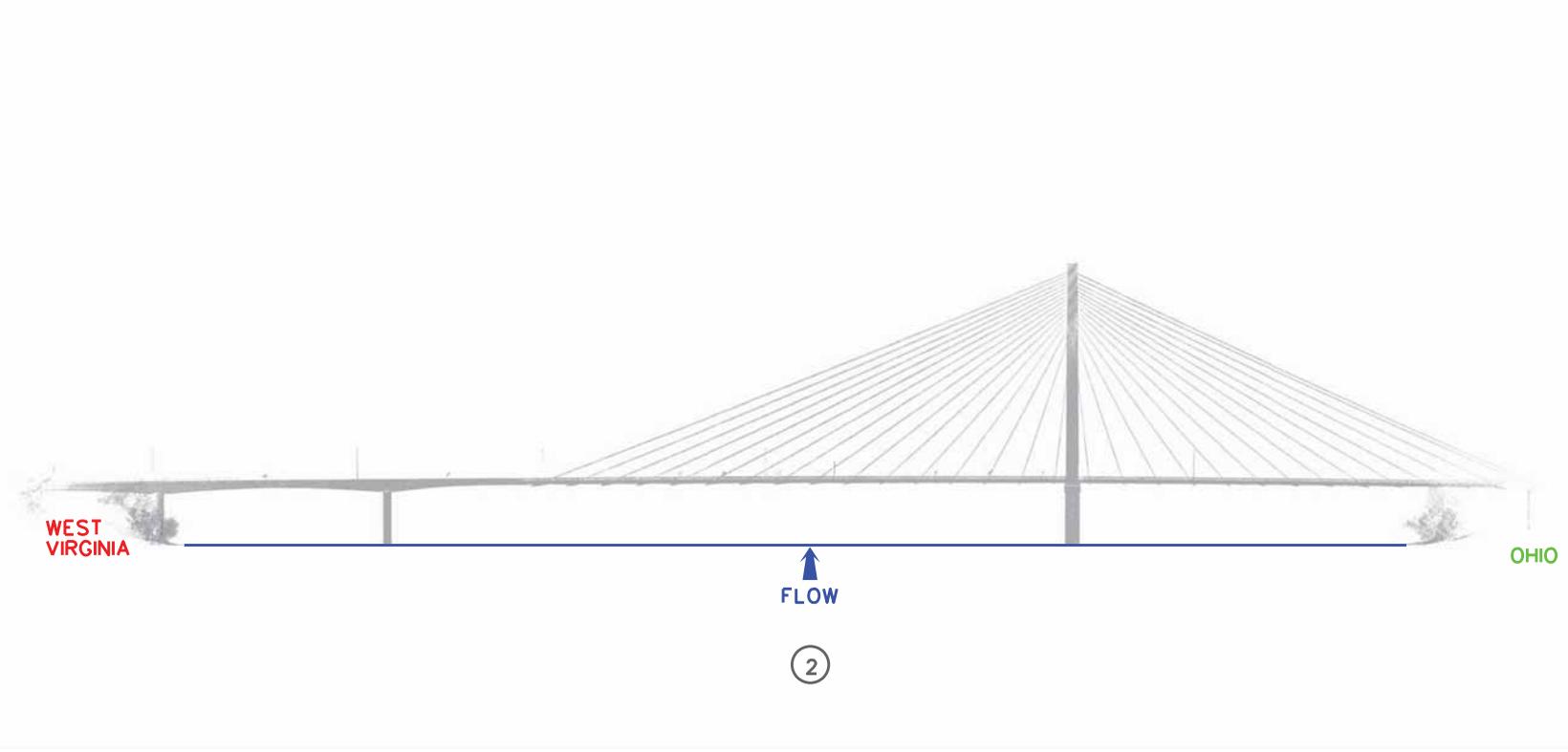
CHANNEL SPAN

ELEVATION OF LOW STEEL 547.14'

VERTICAL CLEARANCE AT POOL STAGE 32.14'

VERTICAL CLEARANCE - 1937 H.W. 12.9'





307.2 (1) AERIAL POWER CROSSING
 ELEVATION LOW POINT OF SAG 618.0'
 VERTICAL CLEARANCE AT POOL STAGE 103.0'
 VERTICAL CLEARANCE - 1937 H.W. 65.0'

305.2 (2) EAST HUNTINGTON HIGHWAY BRIDGE
 CHANNEL SPAN
 ELEVATION OF LOW STEEL 587.0'
 VERTICAL CLEARANCE AT POOL STAGE 72.0'
 VERTICAL CLEARANCE - 1937 H.W. 25.0'
 HORIZONTAL CLEARANCE 885'

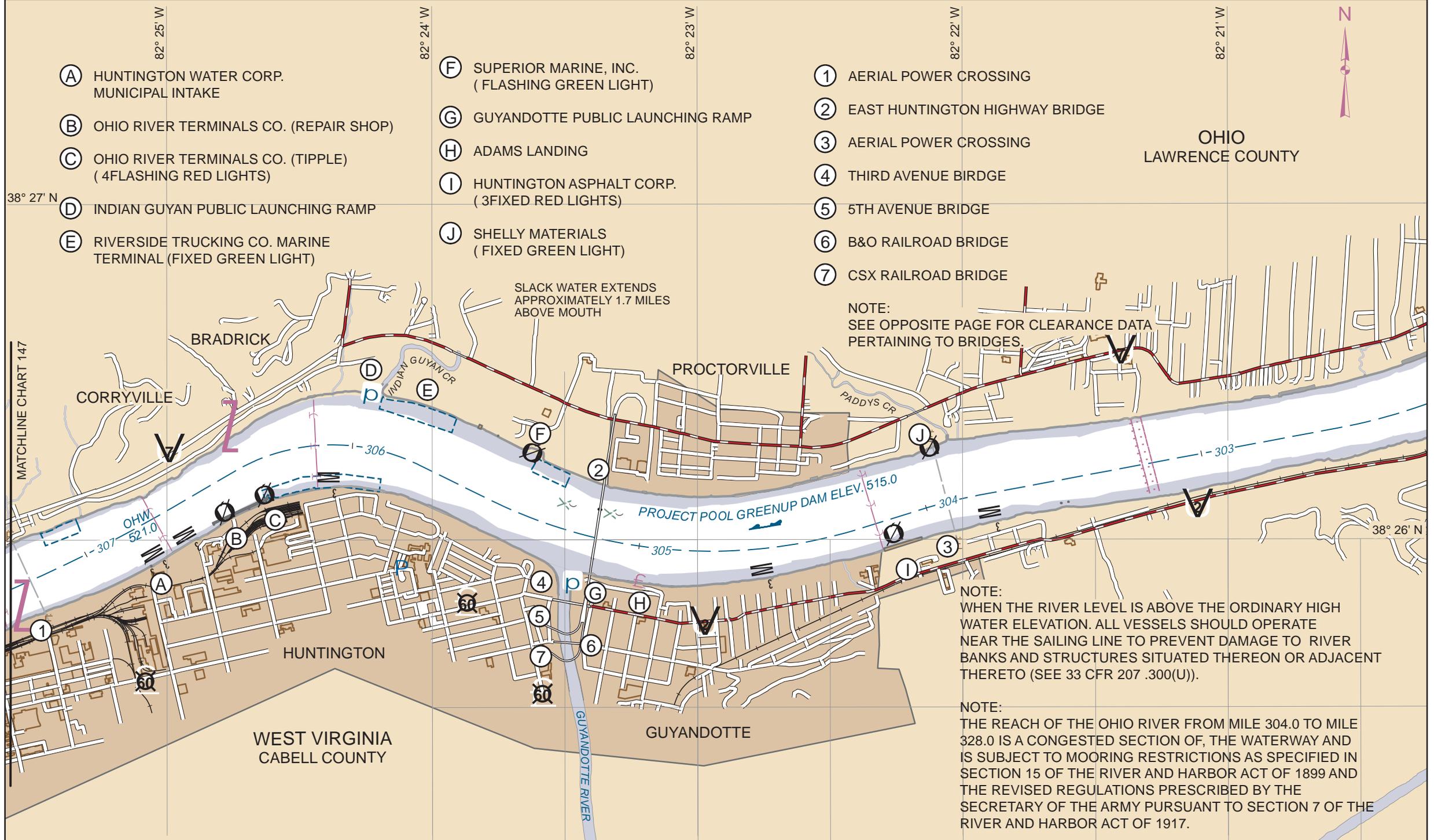
303.9 (3) AERIAL POWER CROSSING
 ELEVATION LOW POINT OF SAG 618.0'
 VERTICAL CLEARANCE AT POOL STAGE 103.0'
 VERTICAL CLEARANCE - 1937 H.W. 55.7'

GUYANDOTTE (4) THIRD AVENUE BRIDGE
 CHANNEL SPAN
 ELEVATION OF LOW STEEL 549.7'
 VERTICAL CLEARANCE AT POOL STAGE 34.7'
 HORIZONTAL CLEARANCE 167'

GUYANDOTTE (5) FIFTH AVENUE BRIDGE
 CHANNEL SPAN
 ELEVATION OF LOW STEEL 550.5'
 VERTICAL CLEARANCE AT POOL STAGE 35.5'
 HORIZONTAL CLEARANCE 190'

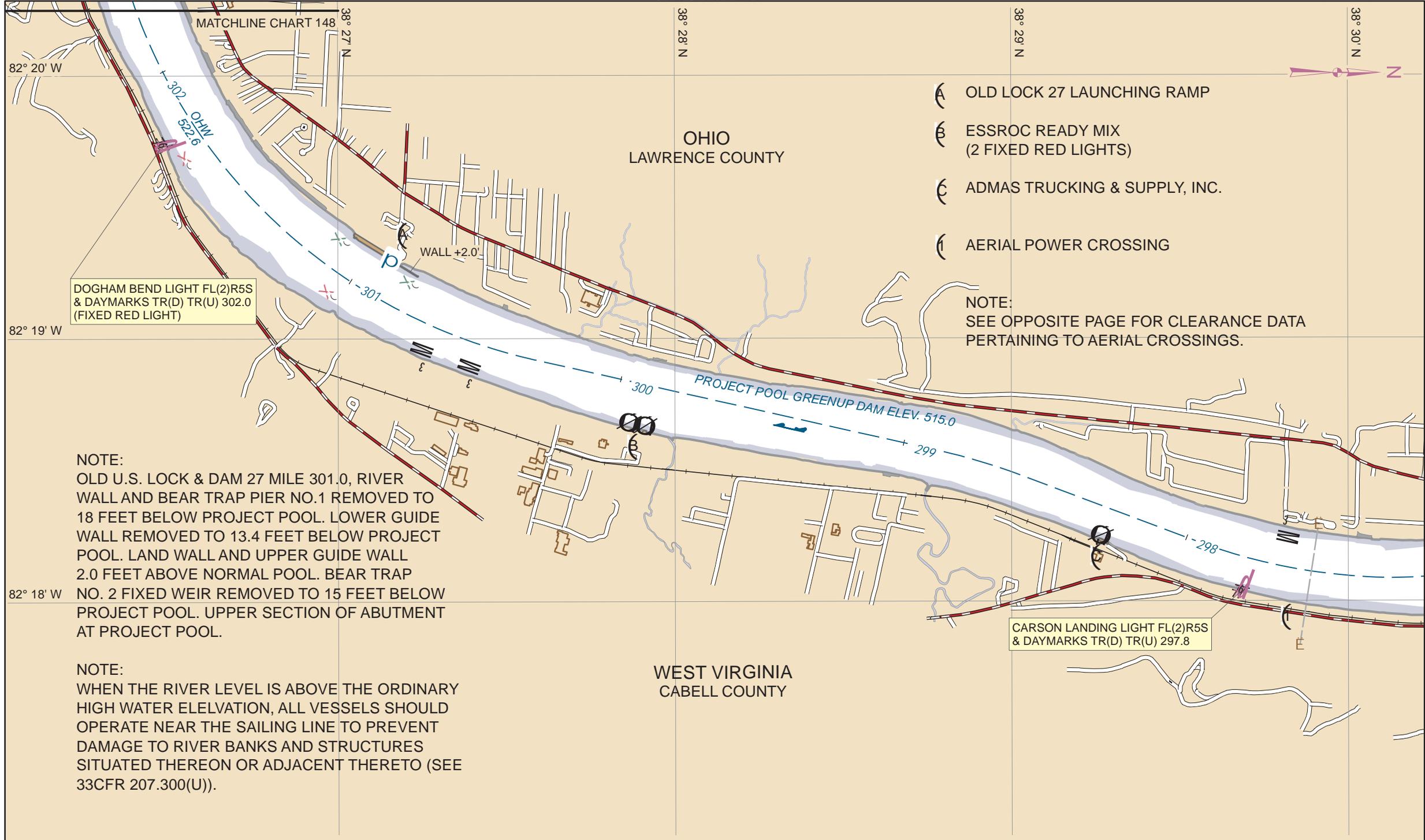
GUYANDOTTE (6) B&O RAILROAD BRIDGE
 CHANNEL SPAN
 ELEVATION OF LOW STEEL 550.5'
 VERTICAL CLEARANCE AT POOL STAGE 35.5'
 HORIZONTAL CLEARANCE 100'

GUYANDOTTE (7) CSX RAILROAD BRIDGE
 CHANNEL SPAN
 ELEVATION OF LOW STEEL 552.3'
 VERTICAL CLEARANCE AT POOL STAGE 37.3'
 HORIZONTAL CLEARANCE 104'



297.5 ① AERIAL POWER CROSSING

ELEVATION LOW POINT OF SAG	637.0'
VERTICAL CLEARANCE AT POOL STAGE	122.0'
VERTICAL CLEARANCE - 1937 H.W.	72.9'



DOGHAM BEND LIGHT FL(2)R5S
& DAYMARKS TR(D) TR(U) 302.0
(FIXED RED LIGHT)

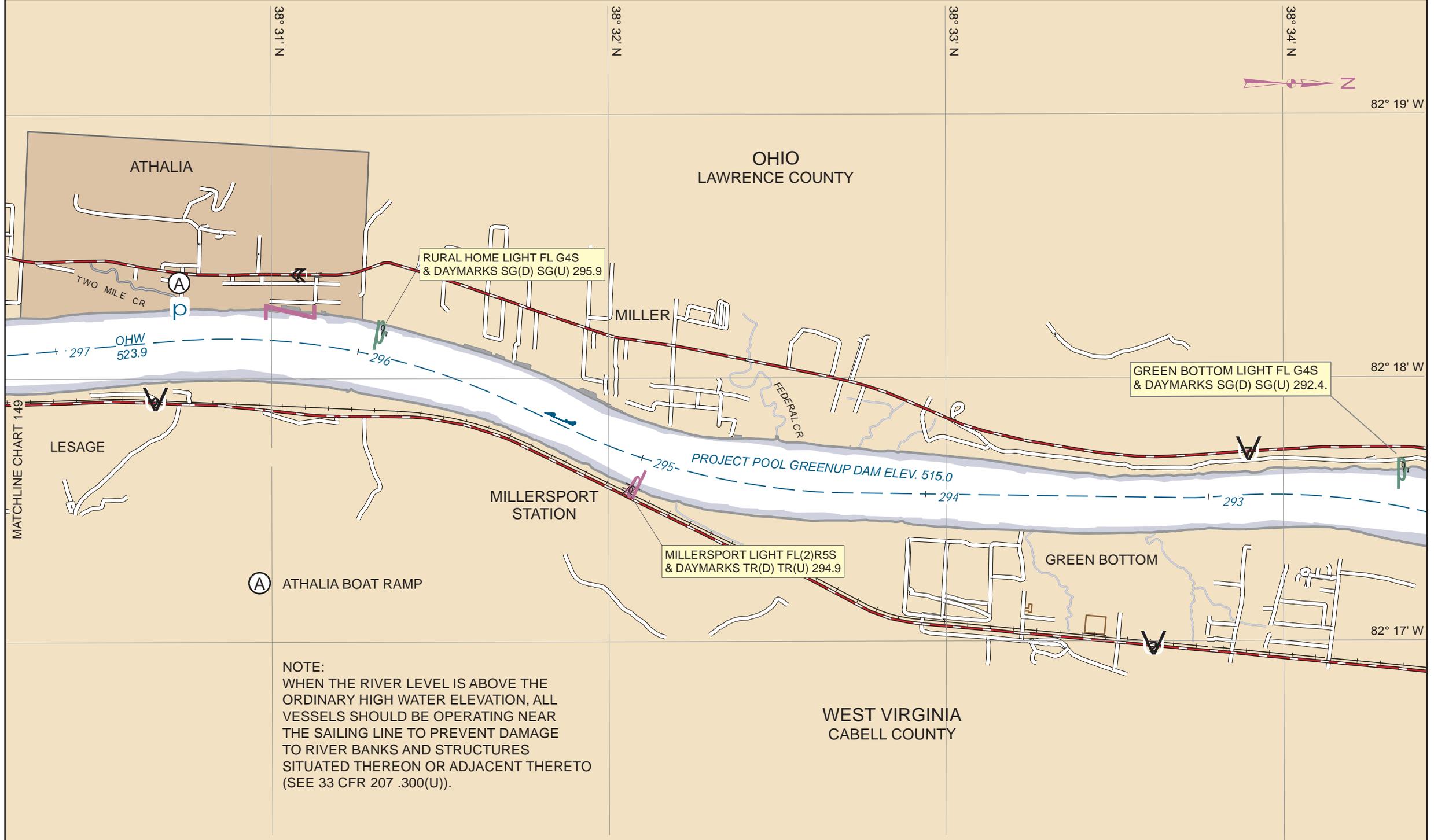
- (A) OLD LOCK 27 LAUNCHING RAMP
- (B) ESSROC READY MIX
(2 FIXED RED LIGHTS)
- (C) ADMAS TRUCKING & SUPPLY, INC.
- (D) AERIAL POWER CROSSING

NOTE:
SEE OPPOSITE PAGE FOR CLEARANCE DATA
PERTAINING TO AERIAL CROSSINGS.

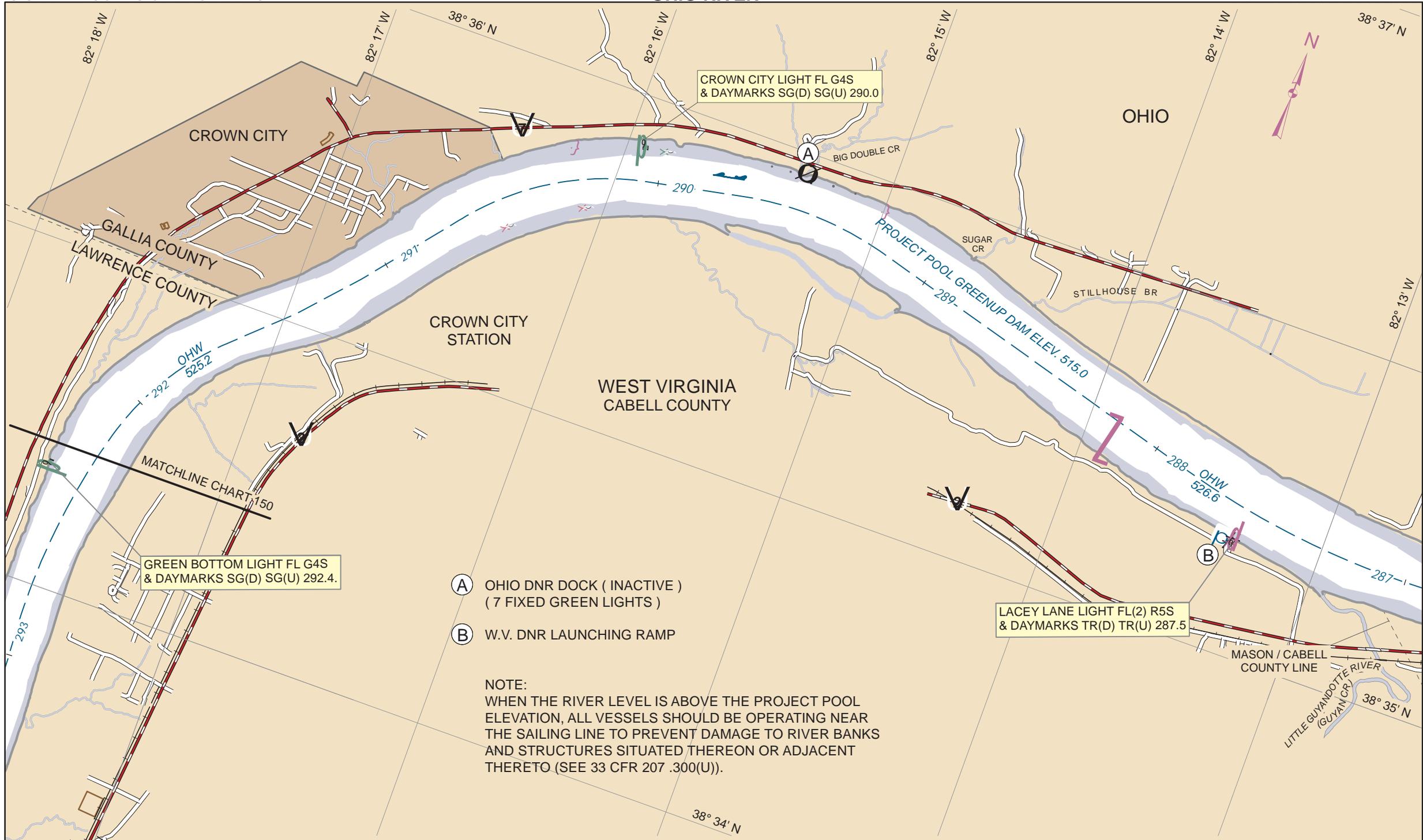
NOTE:
OLD U.S. LOCK & DAM 27 MILE 301.0, RIVER
WALL AND BEAR TRAP PIER NO.1 REMOVED TO
18 FEET BELOW PROJECT POOL. LOWER GUIDE
WALL REMOVED TO 13.4 FEET BELOW PROJECT
POOL. LAND WALL AND UPPER GUIDE WALL
2.0 FEET ABOVE NORMAL POOL. BEAR TRAP
NO. 2 FIXED WEIR REMOVED TO 15 FEET BELOW
PROJECT POOL. UPPER SECTION OF ABUTMENT
AT PROJECT POOL.

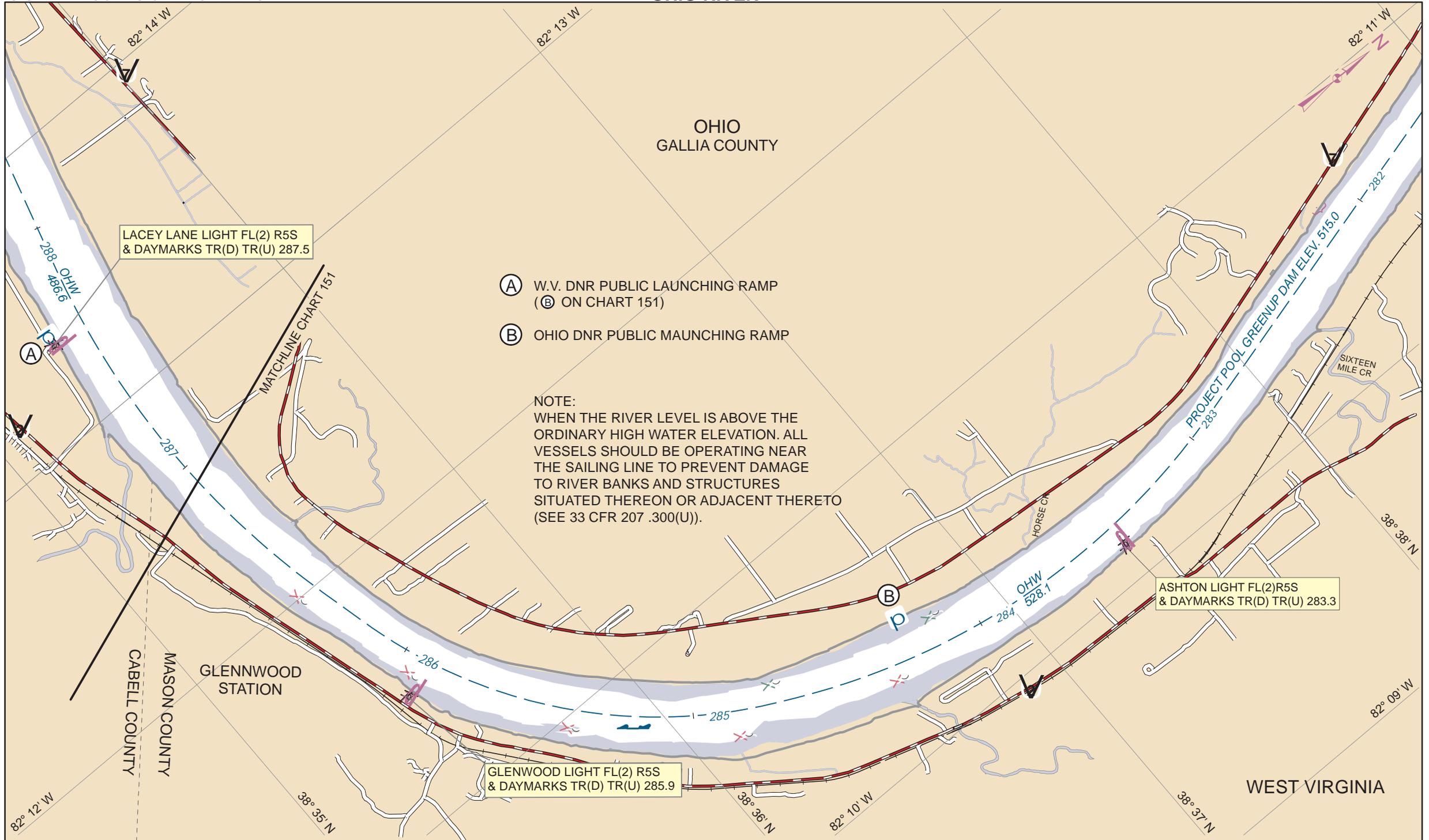
NOTE:
WHEN THE RIVER LEVEL IS ABOVE THE ORDINARY
HIGH WATER ELEVATION, ALL VESSELS SHOULD
OPERATE NEAR THE SAILING LINE TO PREVENT
DAMAGE TO RIVER BANKS AND STRUCTURES
SITUATED THEREON OR ADJACENT THERETO (SEE
33CFR 207.300(U)).

CARSON LANDING LIGHT FL(2)R5S
& DAYMARKS TR(D) TR(U) 297.8



NOTE:
 WHEN THE RIVER LEVEL IS ABOVE THE
 ORDINARY HIGH WATER ELEVATION, ALL
 VESSELS SHOULD BE OPERATING NEAR
 THE SAILING LINE TO PREVENT DAMAGE
 TO RIVER BANKS AND STRUCTURES
 SITUATED THEREON OR ADJACENT THERETO
 (SEE 33 CFR 207 .300(U)).

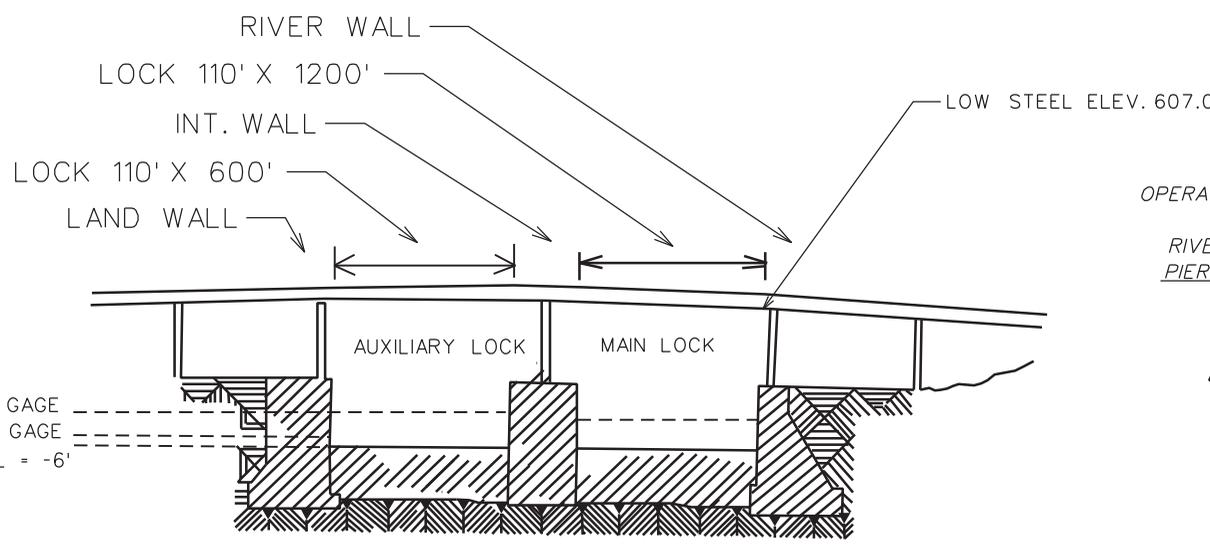




①

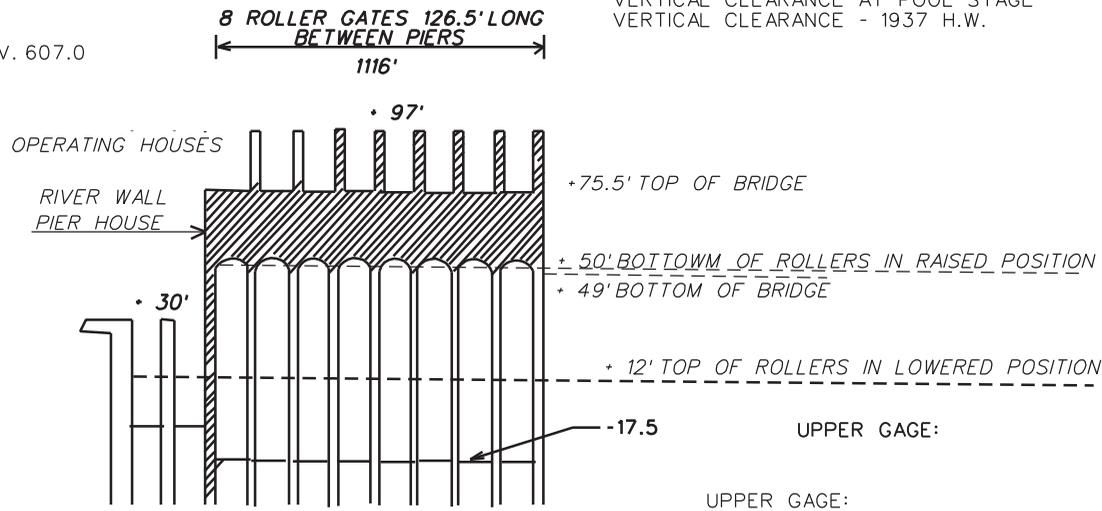
AERIAL POWER CROSSING

ELEVATION LOW POINT OF SAG 626.0'
VERTICAL CLEARANCE AT POOL STAGE 111.0'
VERTICAL CLEARANCE - 1937 H.W. 55.0'



(ELEVATION LOOKING DOWNSTREAM)

NO SCALE



(ELEVATION LOOKING DOWNSTREAM)

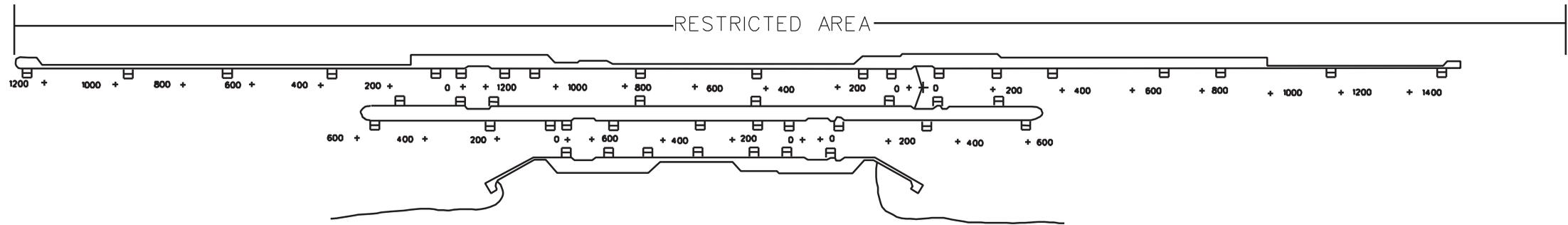
No Scale

UPPER GAGE:
UPPER GAGE: 526.0'
ZERO EL. 12.0'
P.P. READS 12.0'
LOWER GAGE:
ZERO EL: 503.0'
P.P. READS 12.0'

NOTE:
Ordinary high water lower gage - 26.5'
Maximum locking stage 53.0
Lower gage



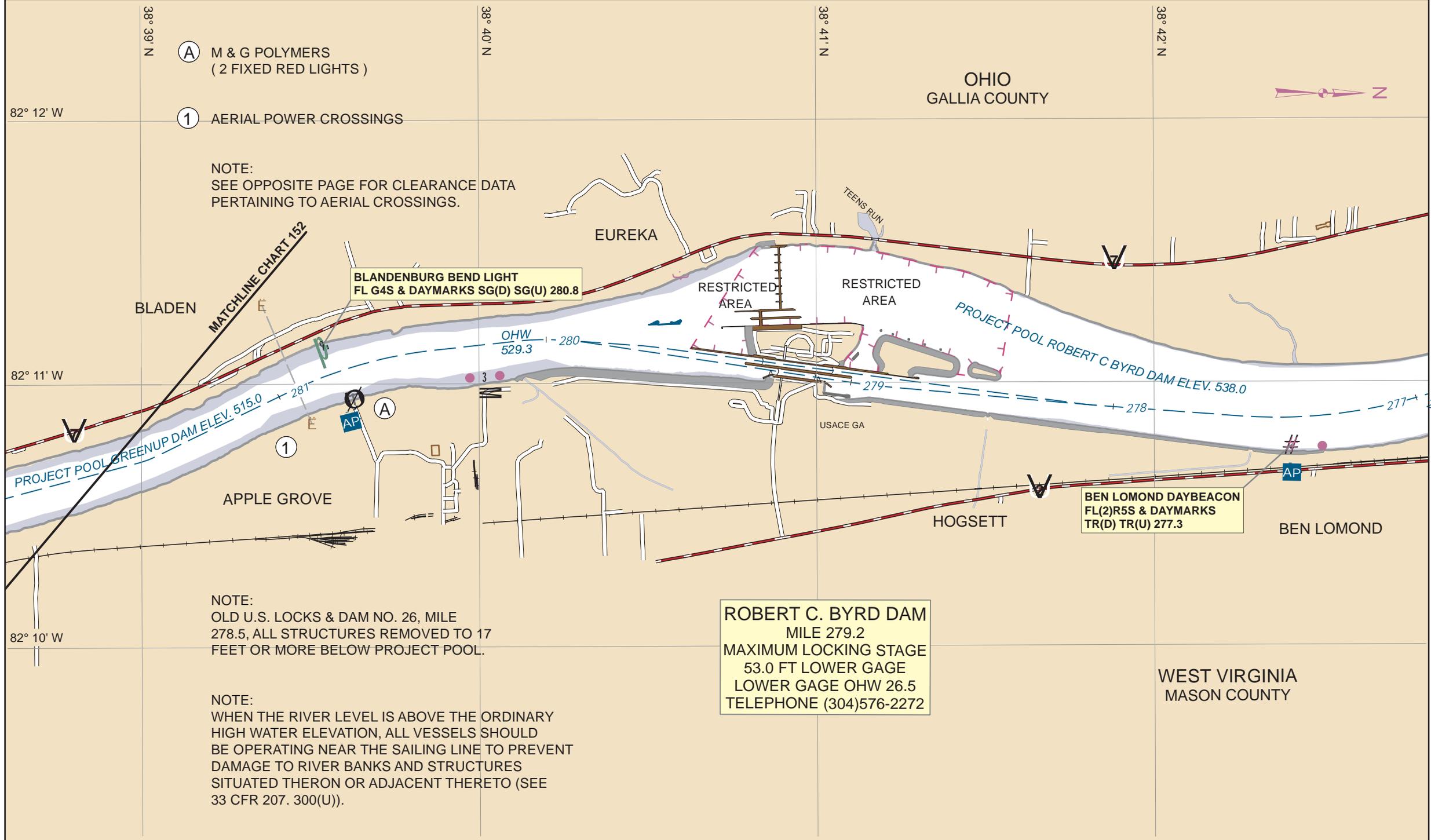
OHIO RIVER
PROJECT POOL GREENUP DAM ELEV. 515.0
PROJECT POOL ROBERT C. BYRD DAM ELEV 538.0

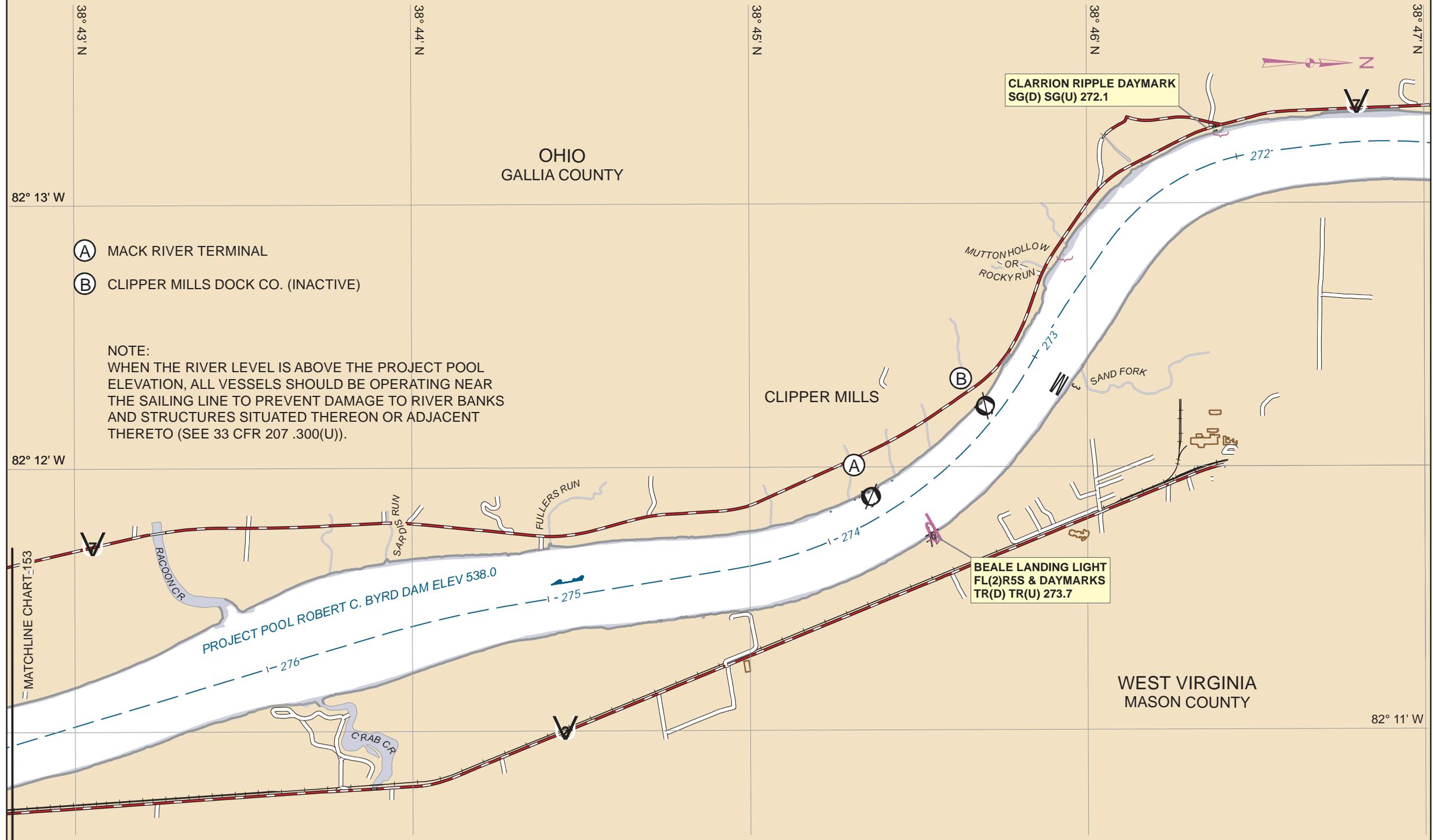


LEGEND
▼ FLOATING MOORING BIT
□ LADDERS - BLACK AND WHITE STRIPED
200 + DISTANCE IN FEET FROM GATE

NOTE:
THE TOPS OF THE UPPER AND LOWER GATE SILLS OF THE MAIN AND AUXILIARY LOCKS AT ELEV. 497' M.S.L.

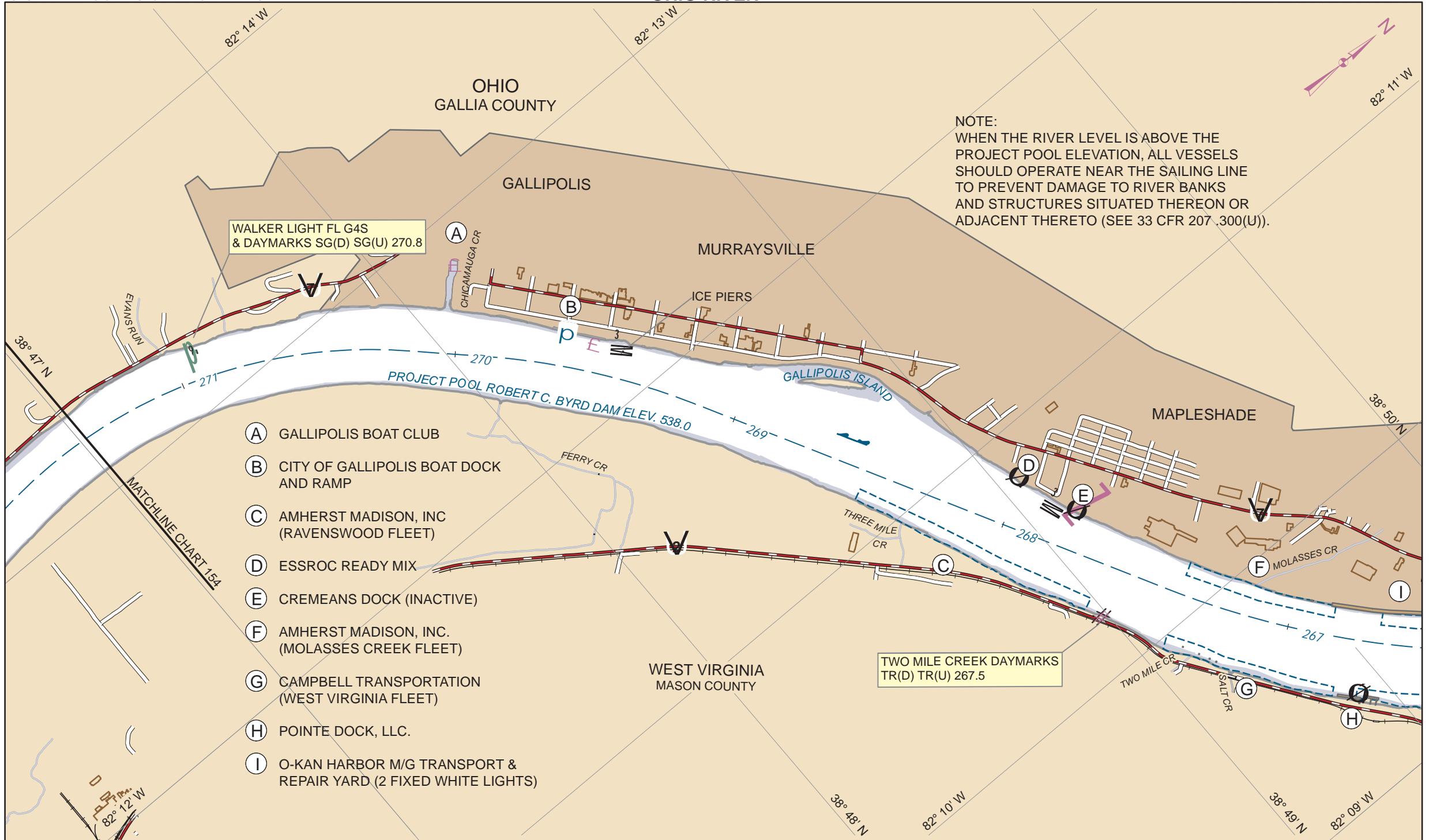
ROBERT C. BYRD
LOCKS AND DAM
MILE 279.2
ROBERT C. BYRD
LOCKS AND DAM
MILE 279.2

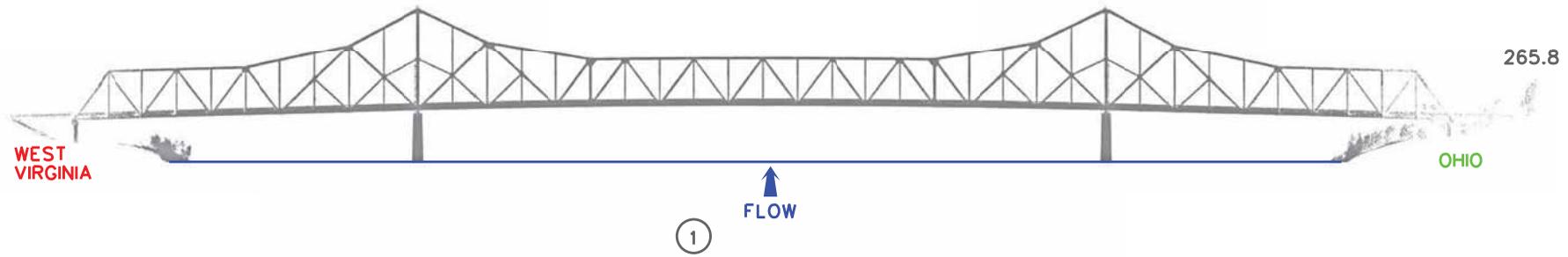




- (A) MACK RIVER TERMINAL
- (B) CLIPPER MILLS DOCK CO. (INACTIVE)

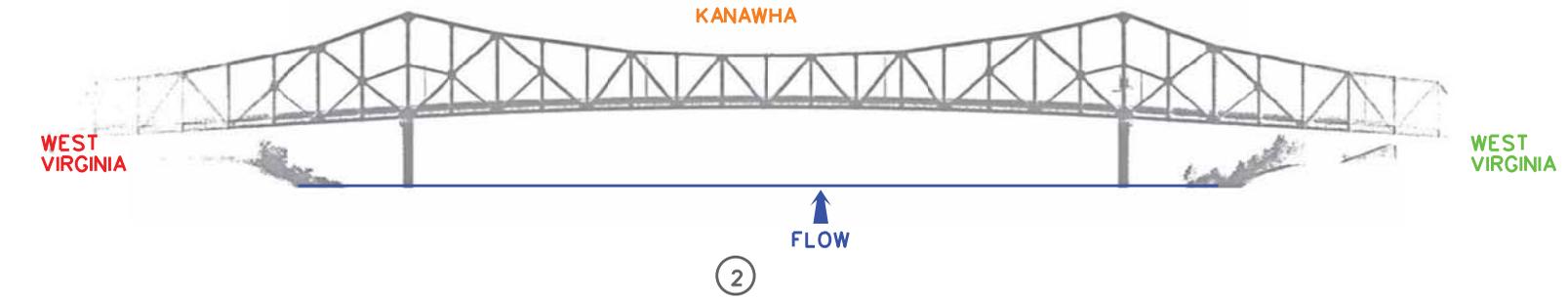
NOTE:
 WHEN THE RIVER LEVEL IS ABOVE THE PROJECT POOL ELEVATION, ALL VESSELS SHOULD BE OPERATING NEAR THE SAILING LINE TO PREVENT DAMAGE TO RIVER BANKS AND STRUCTURES SITUATED THEREON OR ADJACENT THERETO (SEE 33 CFR 207 .300(U)).





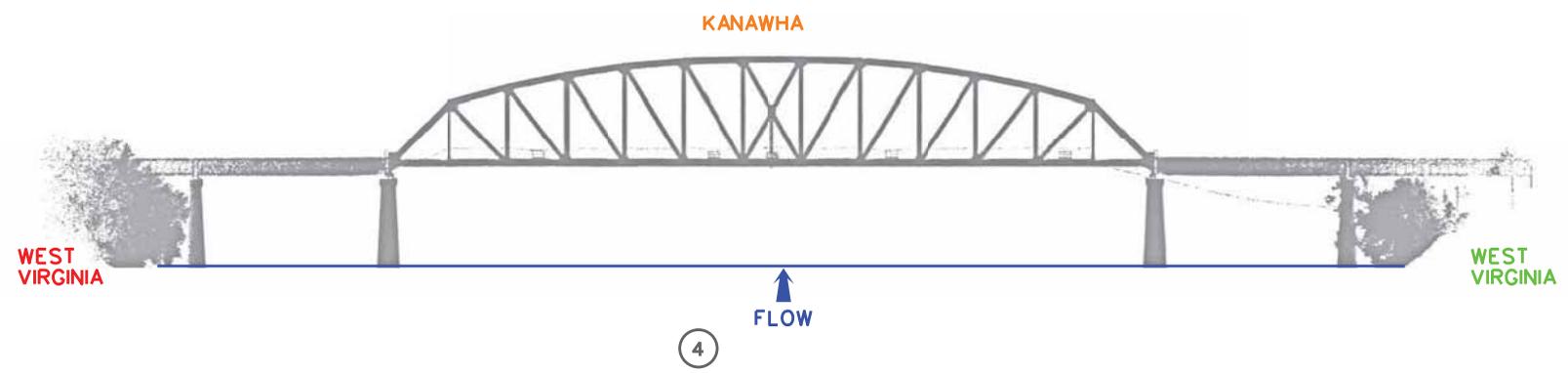
265.8
①

SILVER MEMORIAL HIGHWAY BRIDGE
CHANNEL SPAN
ELEVATION OF LOW STEEL 608.0'
VERTICAL CLEARANCE AT POOL STAGE 70.0'
VERTICAL CLEARANCE - 1937 H.W. 30.3'
HORIZONTAL CLEARANCE 870'



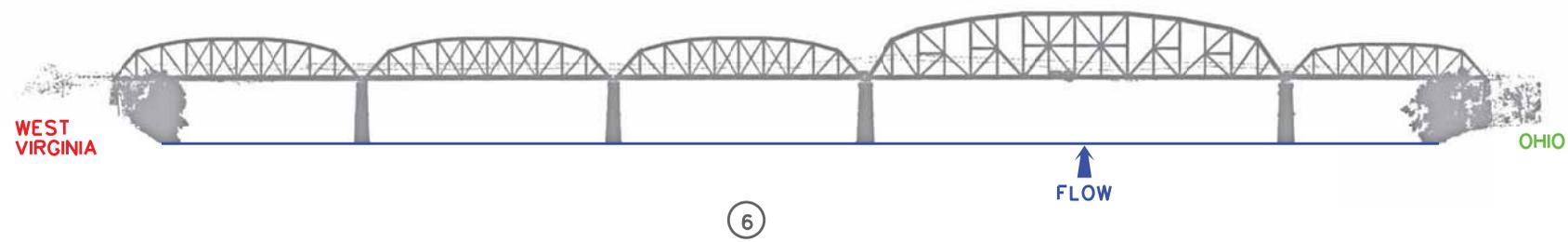
0.1
KANAWHA
②

BARTON JONES HIGHWAY BRIDGE
CHANNEL SPAN
ELEVATION OF LOW STEEL 605.7'
VERTICAL CLEARANCE AT POOL STAGE 67.7'
VERTICAL CLEARANCE - 1937 H.W. 29.0'
HORIZONTAL CLEARANCE 600.0'



0.1
KANAWHA
③

AERIAL POWER CROSSING
ELEVATION LOW POINT OF SAG 616.1'
VERTICAL CLEARANCE AT POOL STAGE 78.1'
VERTICAL CLEARANCE - 1937 H.W. 39.6'



0.5
KANAWHA
④

B&O RAILROAD BRIDGE
CHANNEL SPAN
ELEVATION OF LOW STEEL 603.4'
VERTICAL CLEARANCE AT POOL STAGE 65.4'
VERTICAL CLEARANCE - 1937 H.W. 26.7'
HORIZONTAL CLEARANCE 459.6'

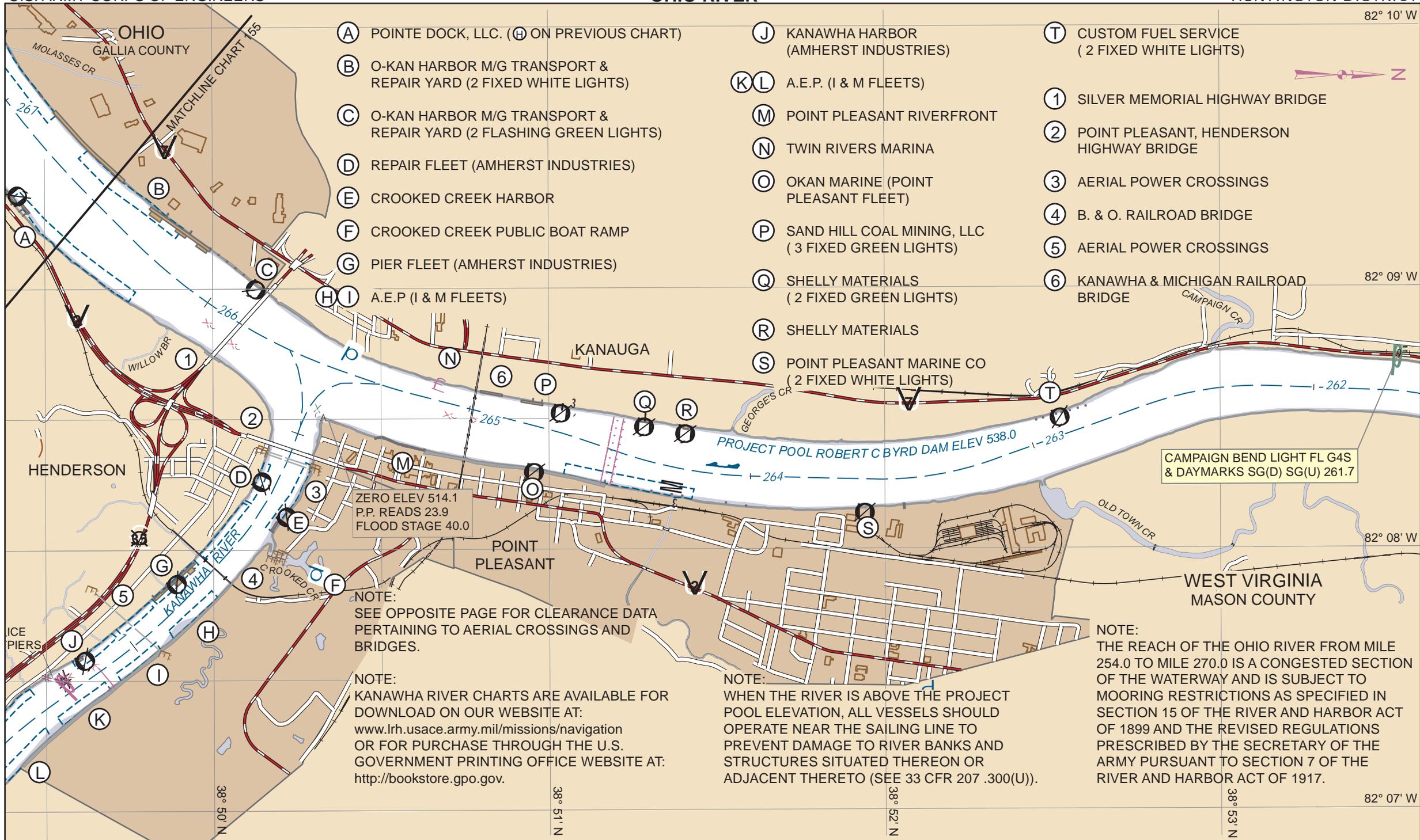
1.0
KANAWHA
⑤

AERIAL POWER CROSSING
ELEVATION LOW POINT OF SAG 627.0'
VERTICAL CLEARANCE AT POOL STAGE 89.0'
VERTICAL CLEARANCE - 1937 H.W. 50.2'

265.0
⑥

KANAWHA AND MICHIGAN RAILROAD BRIDGE
CHANNEL SPAN
ELEVATION OF LOW STEEL 605.4'
VERTICAL CLEARANCE AT POOL STAGE 67.4'
VERTICAL CLEARANCE - 1937 H.W. 28.6'
HORIZONTAL CLEARANCE 400.0'

82° 10' W



- (A) POINTE DOCK, LLC. (H ON PREVIOUS CHART)
- (B) O-KAN HARBOR M/G TRANSPORT & REPAIR YARD (2 FIXED WHITE LIGHTS)
- (C) O-KAN HARBOR M/G TRANSPORT & REPAIR YARD (2 FLASHING GREEN LIGHTS)
- (D) REPAIR FLEET (AMHERST INDUSTRIES)
- (E) CROOKED CREEK HARBOR
- (F) CROOKED CREEK PUBLIC BOAT RAMP
- (G) PIER FLEET (AMHERST INDUSTRIES)
- (H) A.E.P (I & M FLEETS)
- (I) A.E.P (I & M FLEETS)
- (J) KANAWHA HARBOR (AMHERST INDUSTRIES)
- (K) A.E.P. (I & M FLEETS)
- (L) A.E.P. (I & M FLEETS)
- (M) POINT PLEASANT RIVERFRONT
- (N) TWIN RIVERS MARINA
- (O) OKAN MARINE (POINT PLEASANT FLEET)
- (P) SAND HILL COAL MINING, LLC (3 FIXED GREEN LIGHTS)
- (Q) SHELLY MATERIALS (2 FIXED GREEN LIGHTS)
- (R) SHELLY MATERIALS
- (S) POINT PLEASANT MARINE CO (2 FIXED WHITE LIGHTS)
- (T) CUSTOM FUEL SERVICE (2 FIXED WHITE LIGHTS)

- (1) SILVER MEMORIAL HIGHWAY BRIDGE
- (2) POINT PLEASANT, HENDERSON HIGHWAY BRIDGE
- (3) AERIAL POWER CROSSINGS
- (4) B. & O. RAILROAD BRIDGE
- (5) AERIAL POWER CROSSINGS
- (6) KANAWHA & MICHIGAN RAILROAD BRIDGE

ZERO ELEV 514.1
P.P. READS 23.9
FLOOD STAGE 40.0

NOTE:
SEE OPPOSITE PAGE FOR CLEARANCE DATA
PERTAINING TO AERIAL CROSSINGS AND
BRIDGES.

NOTE:
KANAWHA RIVER CHARTS ARE AVAILABLE FOR
DOWNLOAD ON OUR WEBSITE AT:
www.lrh.usace.army.mil/missions/navigation
OR FOR PURCHASE THROUGH THE U.S.
GOVERNMENT PRINTING OFFICE WEBSITE AT:
<http://bookstore.gpo.gov>.

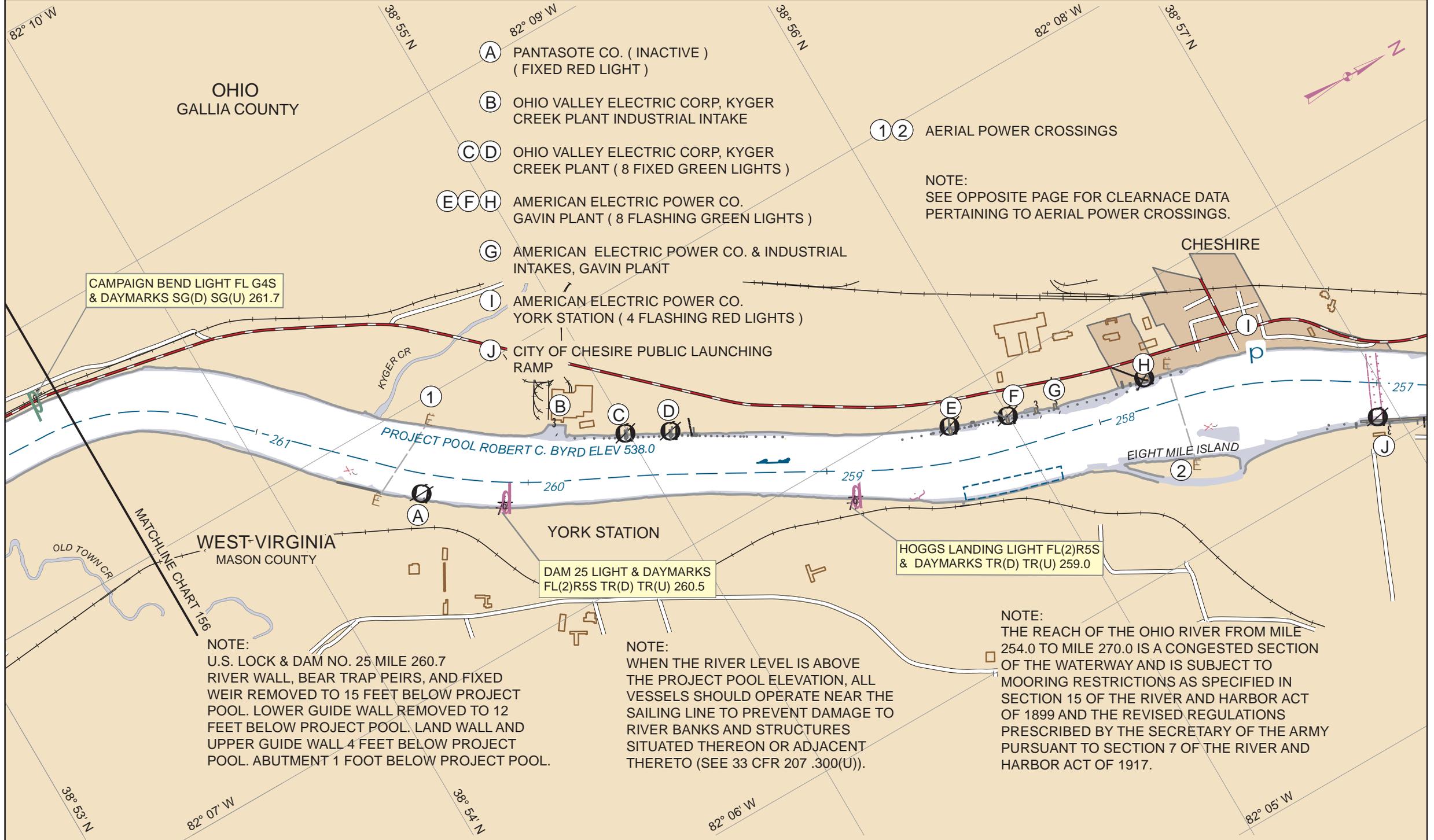
NOTE:
WHEN THE RIVER IS ABOVE THE PROJECT
POOL ELEVATION, ALL VESSELS SHOULD
OPERATE NEAR THE SAILING LINE TO
PREVENT DAMAGE TO RIVER BANKS AND
STRUCTURES SITUATED THEREON OR
ADJACENT THERETO (SEE 33 CFR 207 .300(U)).

NOTE:
THE REACH OF THE OHIO RIVER FROM MILE
254.0 TO MILE 270.0 IS A CONGESTED SECTION
OF THE WATERWAY AND IS SUBJECT TO
MOORING RESTRICTIONS AS SPECIFIED IN
SECTION 15 OF THE RIVER AND HARBOR ACT
OF 1899 AND THE REVISED REGULATIONS
PRESCRIBED BY THE SECRETARY OF THE
ARMY PURSUANT TO SECTION 7 OF THE
RIVER AND HARBOR ACT OF 1917.

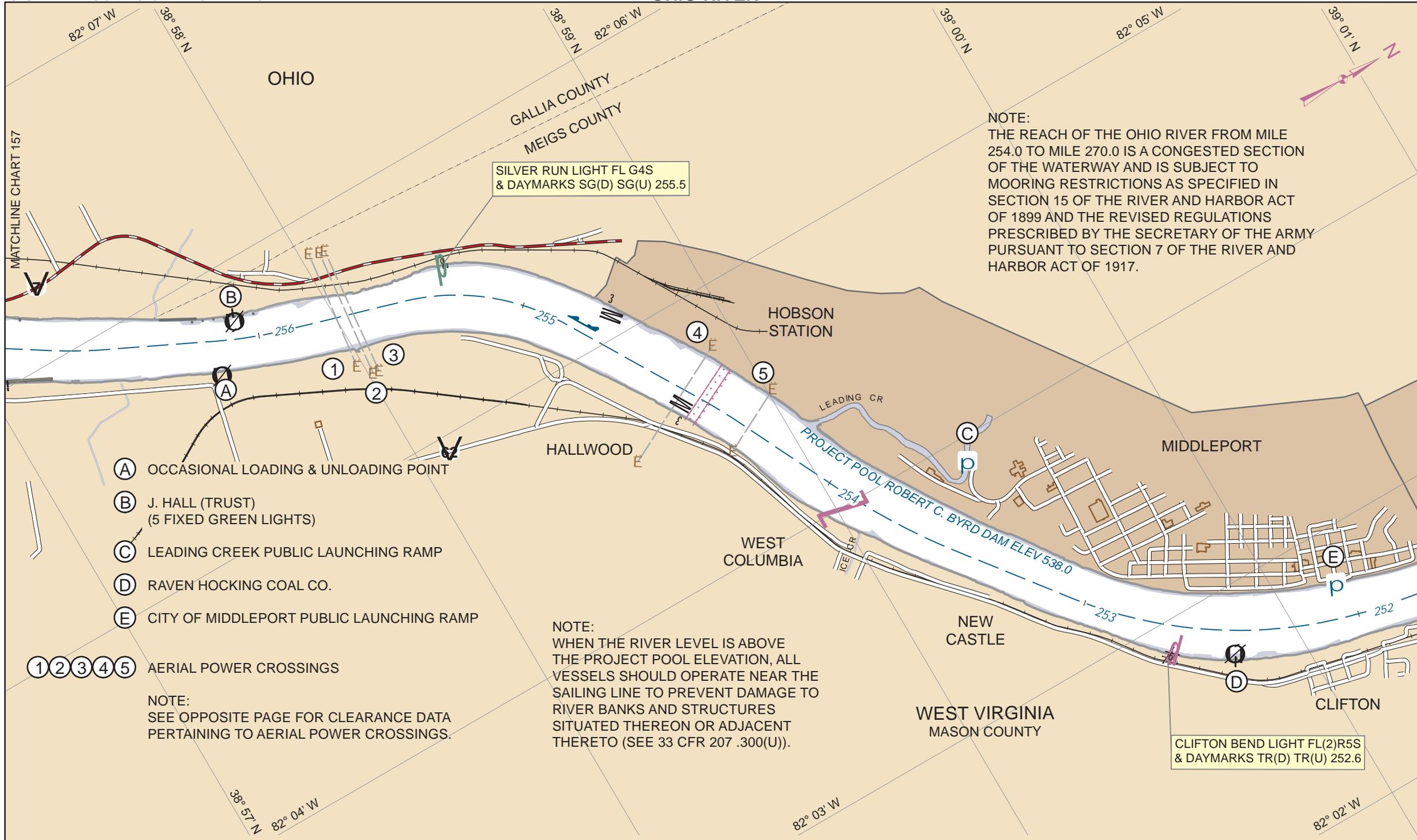
CAMPAIGN BEND LIGHT FL G4S
& DAYMARKS SG(D) SG(U) 261.7

260.5	①	AERIAL POWER CROSSING	
		ELEVATION LOW POINT OF SAG	634.0'
		VERTICAL CLEARANCE AT POOL STAGE	96.0'
		VERTICAL CLEARANCE - 1913 H.W.	55.0'

257.8	②	AERIAL POWER CROSSING	
		ELEVATION LOW POINT OF SAG	653.0'
		VERTICAL CLEARANCE AT POOL STAGE	115.0'
		VERTICAL CLEARANCE - 1913 H.W.	72.9'



255.8	①	AERIAL POWER CROSSING	
		ELEVATION LOW POINT OF SAG	653.3'
		VERTICAL CLEARANCE AT POOL STAGE	115.3'
		VERTICAL CLEARANCE - 1913 H.W.	72.3'
255.7	②	AERIAL POWER CROSSING	
		ELEVATION LOW POINT OF SAG	632.0'
		VERTICAL CLEARANCE AT POOL STAGE	94.0'
		VERTICAL CLEARANCE - 1913 H.W.	51.0'
255.7	③	AERIAL POWER CROSSING	
		ELEVATION LOW POINT OF SAG	632.0'
		VERTICAL CLEARANCE AT POOL STAGE	94.0'
		VERTICAL CLEARANCE - 1913 H.W.	51.0'
254.6	④	AERIAL POWER CROSSING	
		ELEVATION LOW POINT OF SAG	627.4'
		VERTICAL CLEARANCE AT POOL STAGE	89.4'
		VERTICAL CLEARANCE - 1913 H.W.	45.9'
254.4	⑤	AERIAL POWER CROSSING	
		ELEVATION LOW POINT OF SAG	656.2'
		VERTICAL CLEARANCE AT POOL STAGE	118.2'
		VERTICAL CLEARANCE - 1913 H.W.	74.5'



NOTE:
 THE REACH OF THE OHIO RIVER FROM MILE 254.0 TO MILE 270.0 IS A CONGESTED SECTION OF THE WATERWAY AND IS SUBJECT TO MOORING RESTRICTIONS AS SPECIFIED IN SECTION 15 OF THE RIVER AND HARBOR ACT OF 1899 AND THE REVISED REGULATIONS PRESCRIBED BY THE SECRETARY OF THE ARMY PURSUANT TO SECTION 7 OF THE RIVER AND HARBOR ACT OF 1917.

SILVER RUN LIGHT FL G4S & DAYMARKS SG(D) SG(U) 255.5

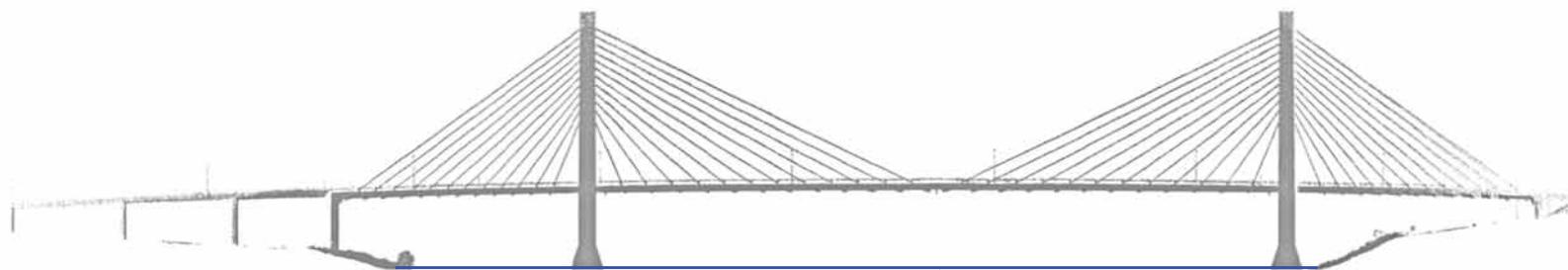
CLIFTON BEND LIGHT FL(2)R5S & DAYMARKS TR(D) TR(U) 252.6

- (A) OCCASIONAL LOADING & UNLOADING POINT
- (B) J. HALL (TRUST) (5 FIXED GREEN LIGHTS)
- (C) LEADING CREEK PUBLIC LAUNCHING RAMP
- (D) RAVEN HOCKING COAL CO.
- (E) CITY OF MIDDLEPORT PUBLIC LAUNCHING RAMP

- (1)(2)(3)(4)(5) AERIAL POWER CROSSINGS

NOTE:
 SEE OPPOSITE PAGE FOR CLEARANCE DATA PERTAINING TO AERIAL POWER CROSSINGS.

NOTE:
 WHEN THE RIVER LEVEL IS ABOVE THE PROJECT POOL ELEVATION, ALL VESSELS SHOULD OPERATE NEAR THE SAILING LINE TO PREVENT DAMAGE TO RIVER BANKS AND STRUCTURES SITUATED THEREON OR ADJACENT THERETO (SEE 33 CFR 207 .300(U)).



WEST
VIRGINIA

↑
FLOW

OHIO

①

251.3

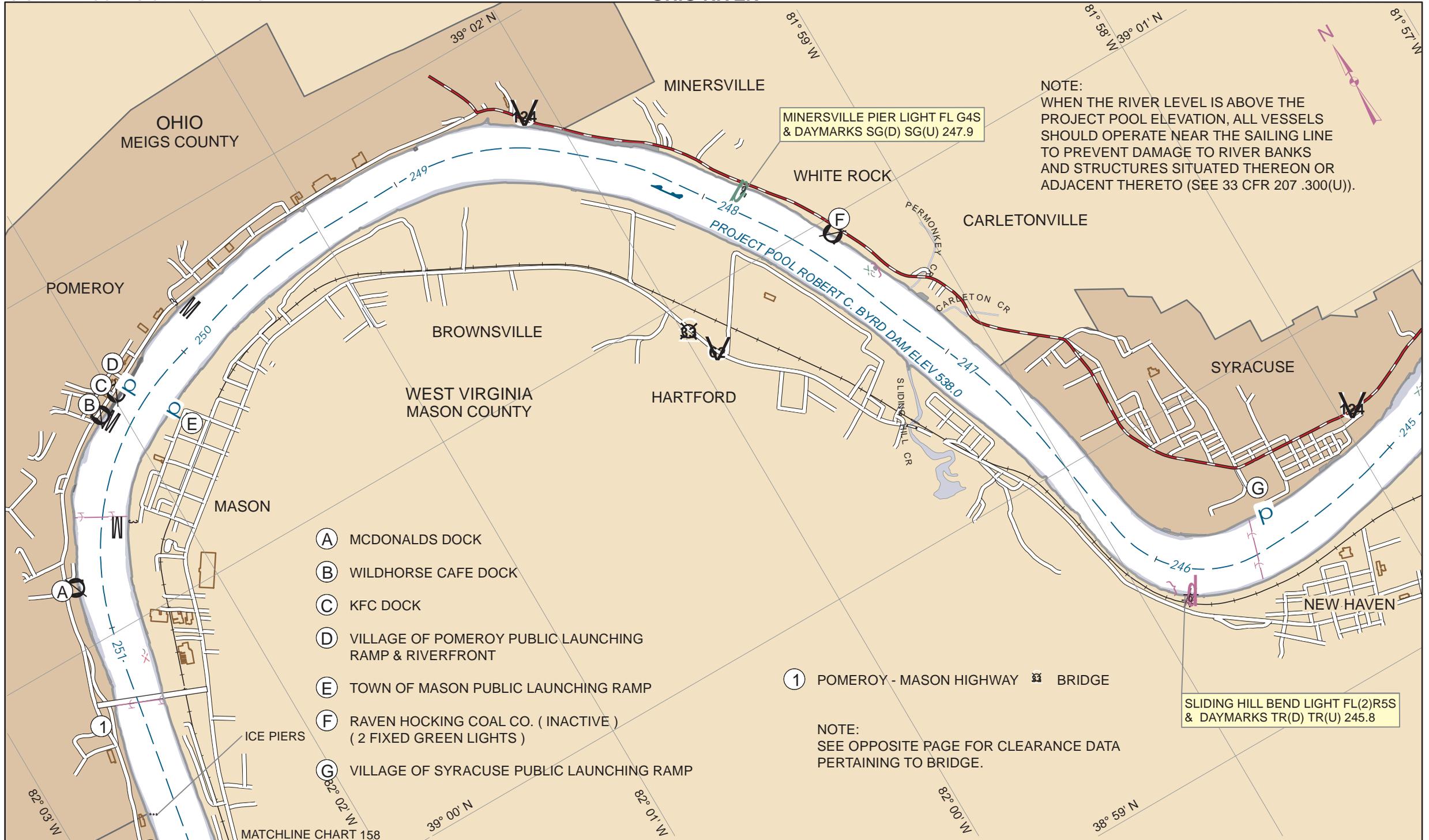
①

POMEROY - MASON HIGHWAY BRIDGE

CHANNEL SPAN

ELEVATION OF LOW STEEL
VERTICAL CLEARANCE AT POOL STAGE
VERTICAL CLEARANCE - 1913 H.W.
HORIZONTAL CLEARANCE

612.6'
74.6'
56.8'
645'

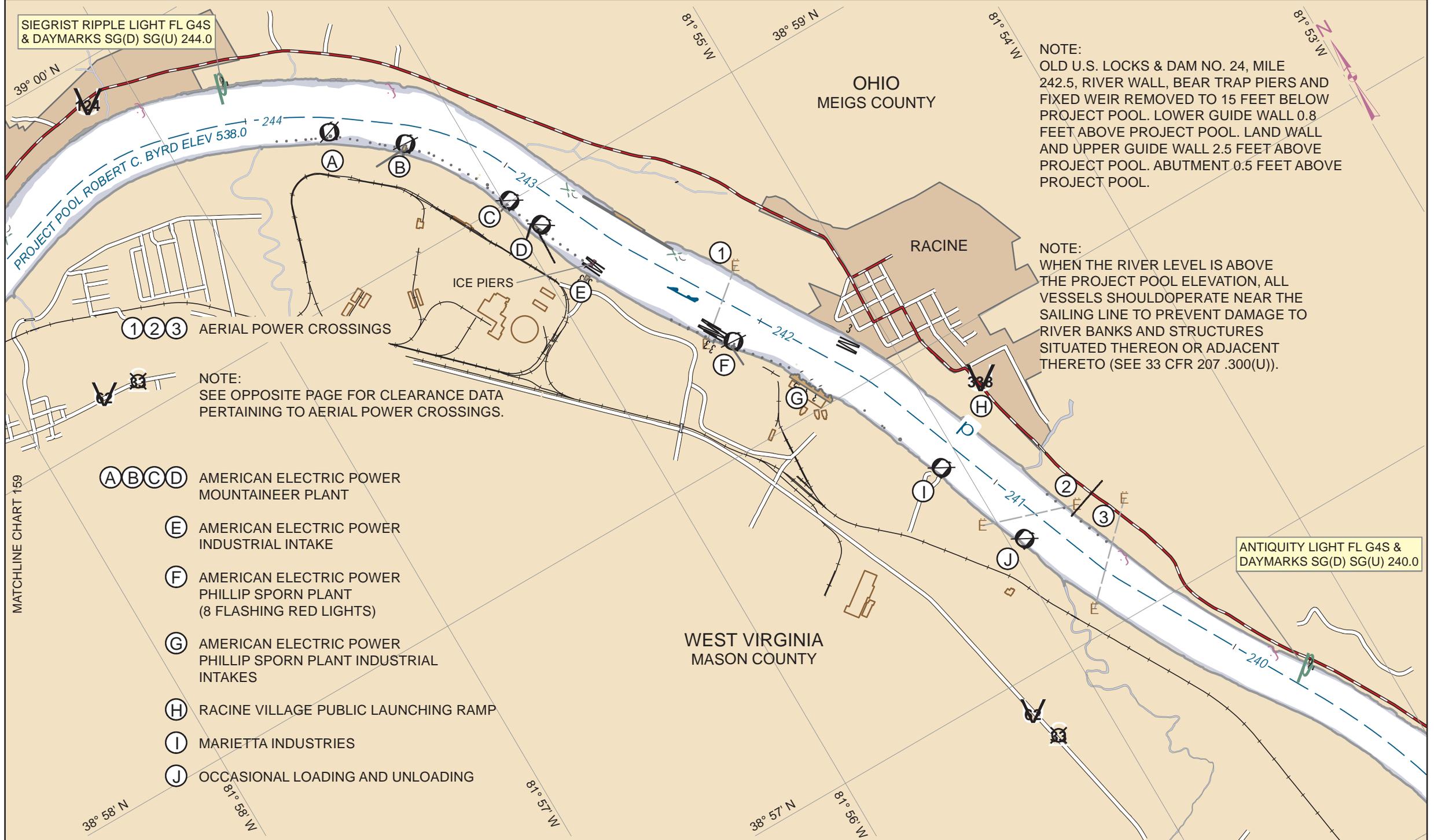


- (A) MCDONALDS DOCK
- (B) WILDHORSE CAFE DOCK
- (C) KFC DOCK
- (D) VILLAGE OF POMEROY PUBLIC LAUNCHING RAMP & RIVERFRONT
- (E) TOWN OF MASON PUBLIC LAUNCHING RAMP
- (F) RAVEN HOCKING COAL CO. (INACTIVE) (2 FIXED GREEN LIGHTS)
- (G) VILLAGE OF SYRACUSE PUBLIC LAUNCHING RAMP

(1) POMEROY - MASON HIGHWAY BRIDGE

NOTE:
SEE OPPOSITE PAGE FOR CLEARANCE DATA
PERTAINING TO BRIDGE.

	①	AERIAL POWER CROSSING	
242.2		ELEVATION LOW POINT OF SAG	639'
		VERTICAL CLEARANCE AT POOL STAGE	101'
		VERTICAL CLEARANCE - 1913 H.W.	48.8'
	②	AERIAL POWER CROSSING	
240.9		ELEVATION LOW POINT OF SAG	640.0'
		VERTICAL CLEARANCE AT POOL STAGE	102.0'
		VERTICAL CLEARANCE - 1913 H.W.	49.0'
	③	AERIAL POWER CROSSING	
240.5		ELEVATION LOW POINT OF SAG	645.0'
		VERTICAL CLEARANCE AT POOL STAGE	107.0'
		VERTICAL CLEARANCE - 1913 H.W.	54.0'



SIEGRIST RIPPLE LIGHT FL G4S & DAYMARKS SG(D) SG(U) 244.0

NOTE:
 OLD U.S. LOCKS & DAM NO. 24, MILE 242.5, RIVER WALL, BEAR TRAP PIERS AND FIXED WEIR REMOVED TO 15 FEET BELOW PROJECT POOL. LOWER GUIDE WALL 0.8 FEET ABOVE PROJECT POOL. LAND WALL AND UPPER GUIDE WALL 2.5 FEET ABOVE PROJECT POOL. ABUTMENT 0.5 FEET ABOVE PROJECT POOL.

NOTE:
 WHEN THE RIVER LEVEL IS ABOVE THE PROJECT POOL ELEVATION, ALL VESSELS SHOULD OPERATE NEAR THE SAILING LINE TO PREVENT DAMAGE TO RIVER BANKS AND STRUCTURES SITUATED THEREON OR ADJACENT THERETO (SEE 33 CFR 207 .300(U)).

NOTE:
 SEE OPPOSITE PAGE FOR CLEARANCE DATA PERTAINING TO AERIAL POWER CROSSINGS.

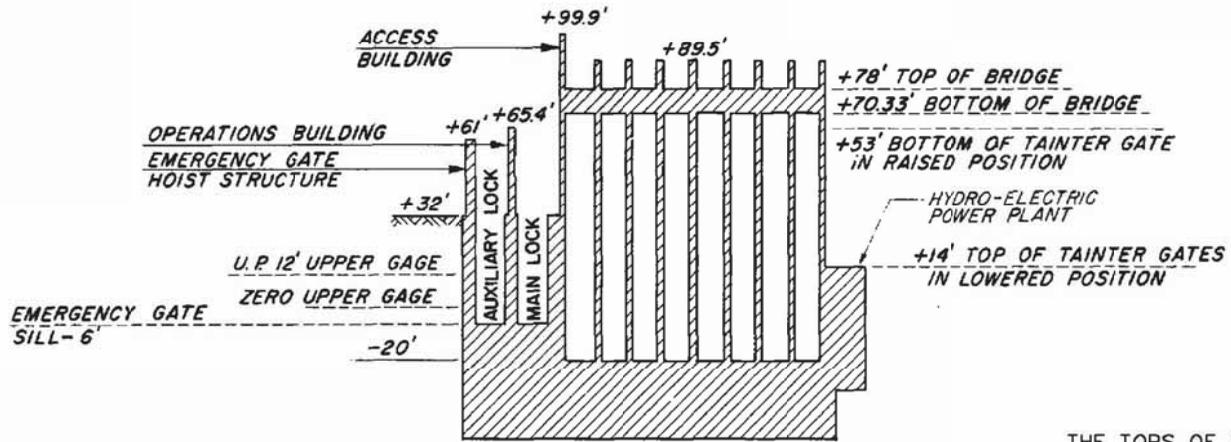
- (A)(B)(C)(D) AMERICAN ELECTRIC POWER MOUNTAINEER PLANT
- (E) AMERICAN ELECTRIC POWER INDUSTRIAL INTAKE
- (F) AMERICAN ELECTRIC POWER PHILLIP SPORN PLANT (8 FLASHING RED LIGHTS)
- (G) AMERICAN ELECTRIC POWER PHILLIP SPORN PLANT INDUSTRIAL INTAKES
- (H) RACINE VILLAGE PUBLIC LAUNCHING RAMP
- (I) MARIETTA INDUSTRIES
- (J) OCCASIONAL LOADING AND UNLOADING

ANTIQUITY LIGHT FL G4S & DAYMARKS SG(D) SG(U) 240.0

MATCHLINE CHART 159

RIVER WALL 42'
 LOCK 110' X 1200'
 MIDDLE WALL 42'
 LOCK 110' X 600'
 LAND WALL

UPPER GAGE:	
ZERO EL.	548.0'
P.P. READS	12.0'
LOWER GAGE:	
ZERO EL.	526.0'
P.P. READS	12.0'



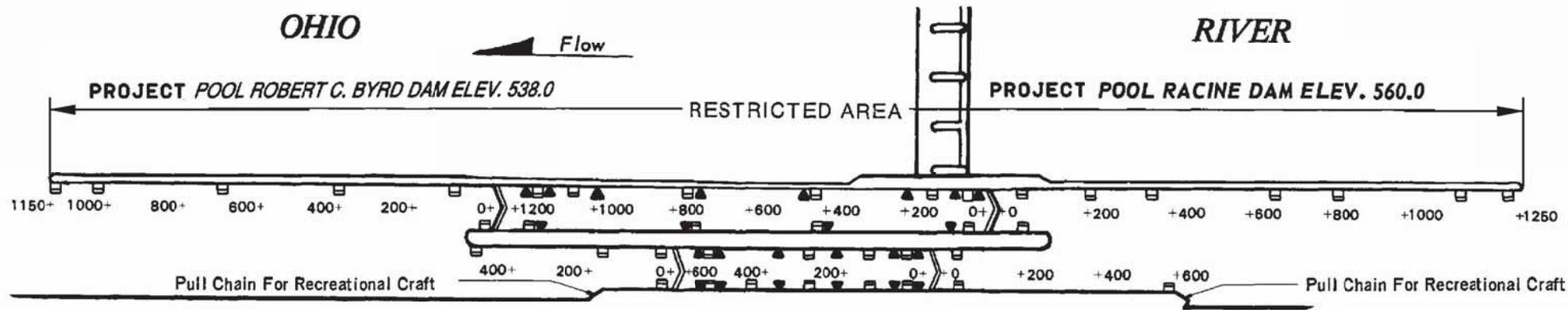
(ELEVATION LOOKING DOWNSTREAM)
 No Scale

NOTE

THE TOPS OF THE UPPER AND LOWER MITER GATE SILL OF THE MAIN AND AUXILIARY LOCKS ARE AT ELEVATION 523.0 FEET, M.S.L.

①

AERIAL POWER CROSSING
 ELEVATION LOW POINT OS SAG 650.0'
 VERTICAL CLEARANCE AT POOL STAGE 90.0'
 VERTICAL CLEARANCE - 1913 H.W. 57.0'



LEGEND

- ▲ FLOATING MOORING BIT
- ▭ LADDERS—Black and White striped.
- 200+ Distance in feet from gate.

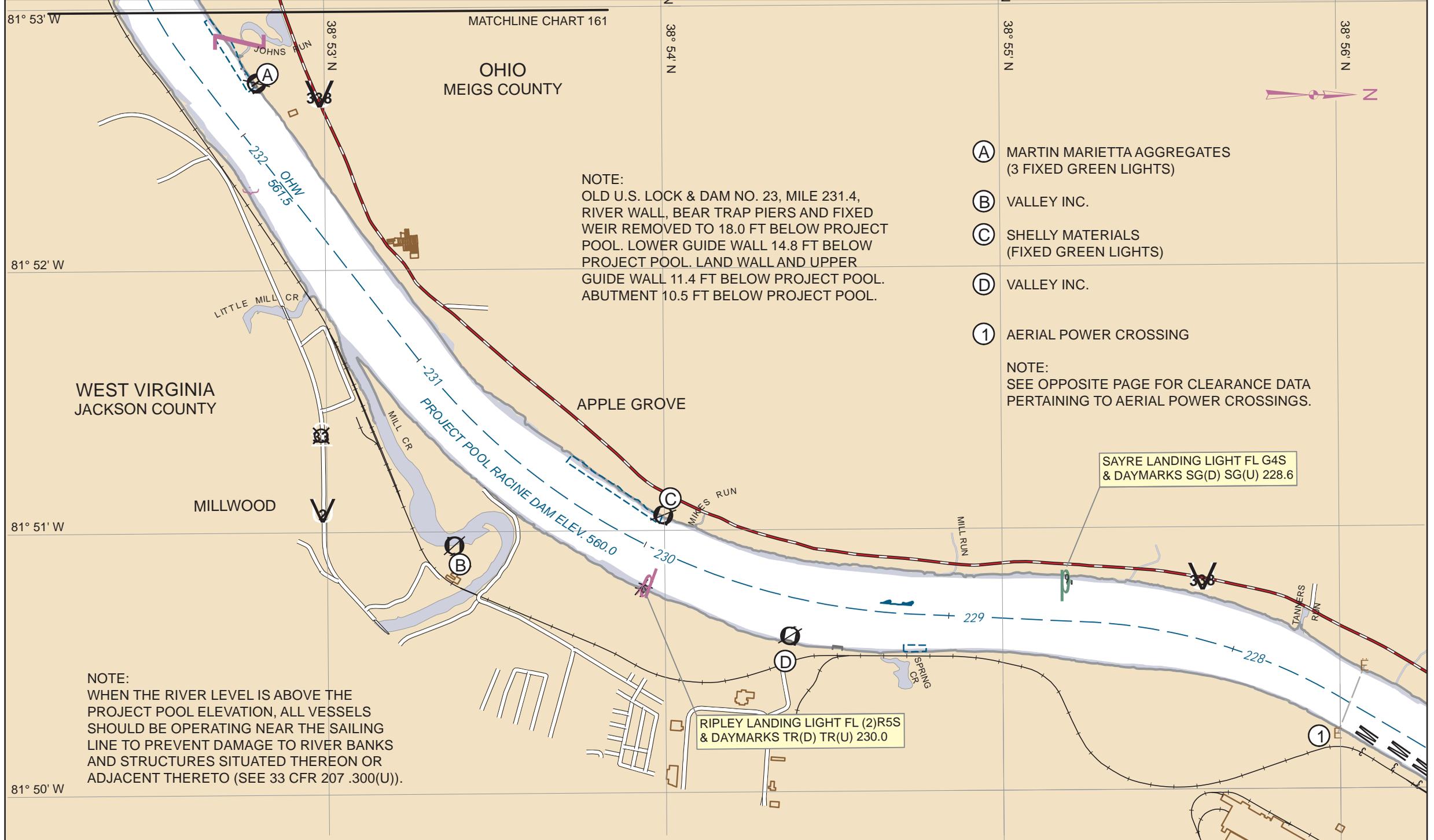
WEST VIRGINIA

Scale: 1 inch equals 400 feet.

NOTE:
 Ordinary high water - 560.2 (mile 237)
 Maximum locking stage 49.9' lower gage

RACINE
 LOCKS AND DAM
 MILE 237.5

227.6	①	AERIAL POWER CROSSING	
		ELEVATION LOW POINT OF SAG	647.6'
		VERTICAL CLEARANCE AT POOL STAGE	87.6'
		VERTICAL CLEARANCE - 1913 H.W.	50.6'



OHIO MEIGS COUNTY

WEST VIRGINIA JACKSON COUNTY

APPLE GROVE

MILLWOOD

NOTE:
 OLD U.S. LOCK & DAM NO. 23, MILE 231.4,
 RIVER WALL, BEAR TRAP PIERS AND FIXED
 WEIR REMOVED TO 18.0 FT BELOW PROJECT
 POOL. LOWER GUIDE WALL 14.8 FT BELOW
 PROJECT POOL. LAND WALL AND UPPER
 GUIDE WALL 11.4 FT BELOW PROJECT POOL.
 ABUTMENT 10.5 FT BELOW PROJECT POOL.

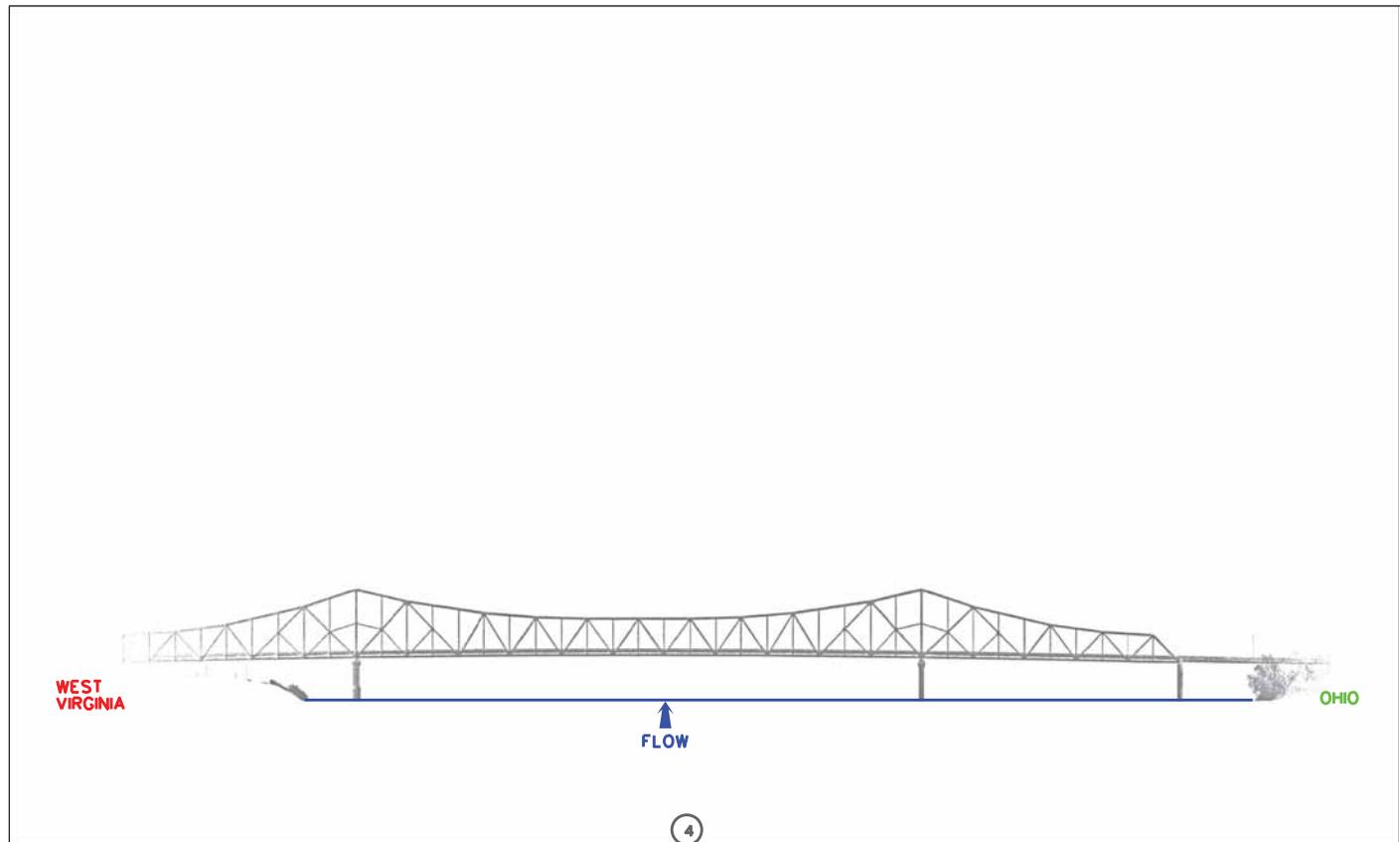
- (A) MARTIN MARIETTA AGGREGATES
(3 FIXED GREEN LIGHTS)
- (B) VALLEY INC.
- (C) SHELLY MATERIALS
(FIXED GREEN LIGHTS)
- (D) VALLEY INC.
- (1) AERIAL POWER CROSSING

NOTE:
 SEE OPPOSITE PAGE FOR CLEARANCE DATA
 PERTAINING TO AERIAL POWER CROSSINGS.

NOTE:
 WHEN THE RIVER LEVEL IS ABOVE THE
 PROJECT POOL ELEVATION, ALL VESSELS
 SHOULD BE OPERATING NEAR THE SAILING
 LINE TO PREVENT DAMAGE TO RIVER BANKS
 AND STRUCTURES SITUATED THEREON OR
 ADJACENT THERETO (SEE 33 CFR 207 .300(U)).

SAYRE LANDING LIGHT FL G4S
 & DAYMARKS SG(D) SG(U) 228.6

RIPLEY LANDING LIGHT FL (2)R5S
 & DAYMARKS TR(D) TR(U) 230.0



①
227.6 AERIAL POWER CROSSING
ELEVATION LOW POINT OF SAG 647.6'
VERTICAL CLEARANCE AT POOL STAGE 87.6'
VERTICAL CLEARANCE - 1913 H.W. 50.6'

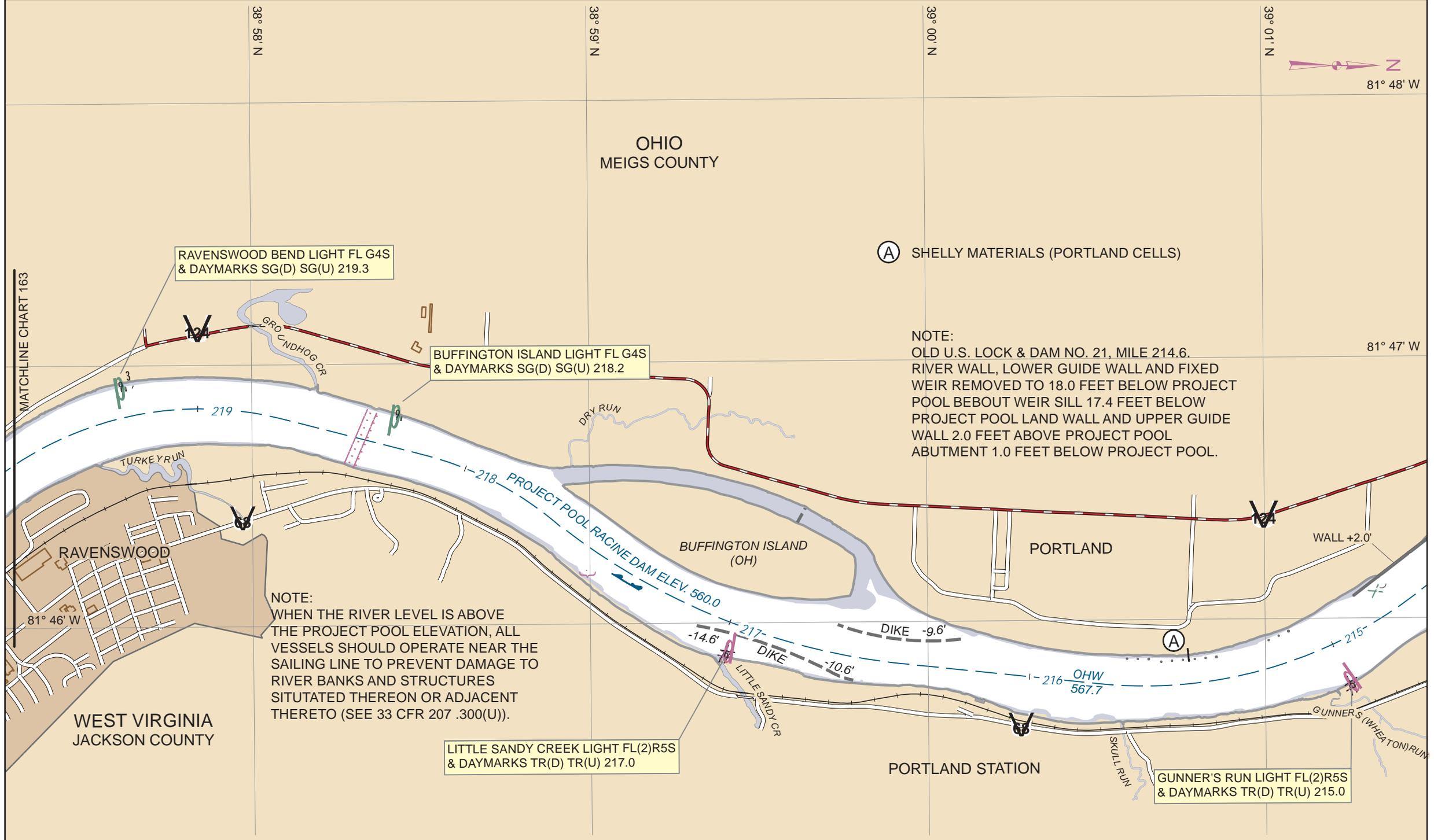
②
226.7 AERIAL POWER CROSSING
ELEVATION LOW POINT OF SAG 647.6'
VERTICAL CLEARANCE AT POOL STAGE 87.6'
VERTICAL CLEARANCE - 1913 H.W. 50.3'

③
221.7 AERIAL POWER CROSSING
ELEVATION LOW POINT OF SAG 660.6'
VERTICAL CLEARANCE AT POOL STAGE 100.6'

④
221.5 B&O RAILROAD BRIDGE
CHANNEL SPAN
ELEVATION OF LOW STEEL 603.4'
VERTICAL CLEARANCE AT POOL STAGE 43.4'
VERTICAL CLEARANCE - 1913 H.W. 26.7'
HORIZONTAL CLEARANCE 459.6'

⑤
SANDY CREEK B&O RAILROAD BRIDGE
CHANNEL SPAN
ELEVATION OF LOW STEEL 603.4'
VERTICAL CLEARANCE AT POOL STAGE 65.4'
VERTICAL CLEARANCE - 1913 H.W. 26.7'
HORIZONTAL CLEARANCE 459.6'

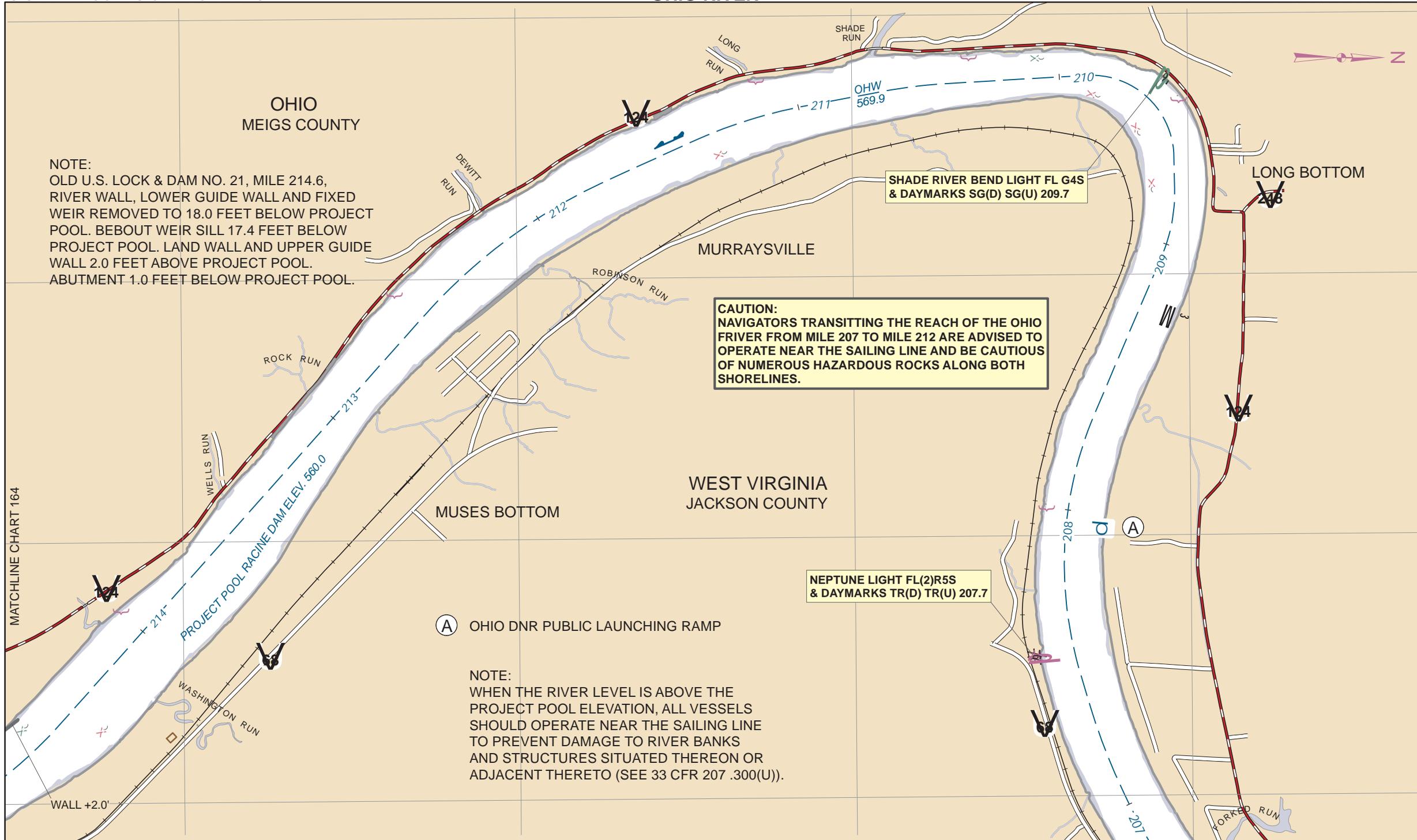
⑥
SANDY CREEK B&O RAILROAD BRIDGE
CHANNEL SPAN
ELEVATION OF LOW STEEL 603.4'
VERTICAL CLEARANCE AT POOL STAGE 65.4'
VERTICAL CLEARANCE - 1913 H.W. 26.7'
HORIZONTAL CLEARANCE 459.6'



(A) SHELLY MATERIALS (PORTLAND CELLS)

NOTE:
 OLD U.S. LOCK & DAM NO. 21, MILE 214.6.
 RIVER WALL, LOWER GUIDE WALL AND FIXED WEIR REMOVED TO 18.0 FEET BELOW PROJECT POOL BEBOUT WEIR SILL 17.4 FEET BELOW PROJECT POOL LAND WALL AND UPPER GUIDE WALL 2.0 FEET ABOVE PROJECT POOL ABUTMENT 1.0 FEET BELOW PROJECT POOL.

NOTE:
 WHEN THE RIVER LEVEL IS ABOVE THE PROJECT POOL ELEVATION, ALL VESSELS SHOULD OPERATE NEAR THE SAILING LINE TO PREVENT DAMAGE TO RIVER BANKS AND STRUCTURES SITUATED THEREON OR ADJACENT THERETO (SEE 33 CFR 207 .300(U)).



NOTE:
 OLD U.S. LOCK & DAM NO. 21, MILE 214.6,
 RIVER WALL, LOWER GUIDE WALL AND FIXED
 WEIR REMOVED TO 18.0 FEET BELOW PROJECT
 POOL. BEBOUT WEIR SILL 17.4 FEET BELOW
 PROJECT POOL. LAND WALL AND UPPER GUIDE
 WALL 2.0 FEET ABOVE PROJECT POOL.
 ABUTMENT 1.0 FEET BELOW PROJECT POOL.

CAUTION:
 NAVIGATORS TRANSITTING THE REACH OF THE OHIO
 RIVER FROM MILE 207 TO MILE 212 ARE ADVISED TO
 OPERATE NEAR THE SAILING LINE AND BE CAUTIOUS
 OF NUMEROUS HAZARDOUS ROCKS ALONG BOTH
 SHORELINES.

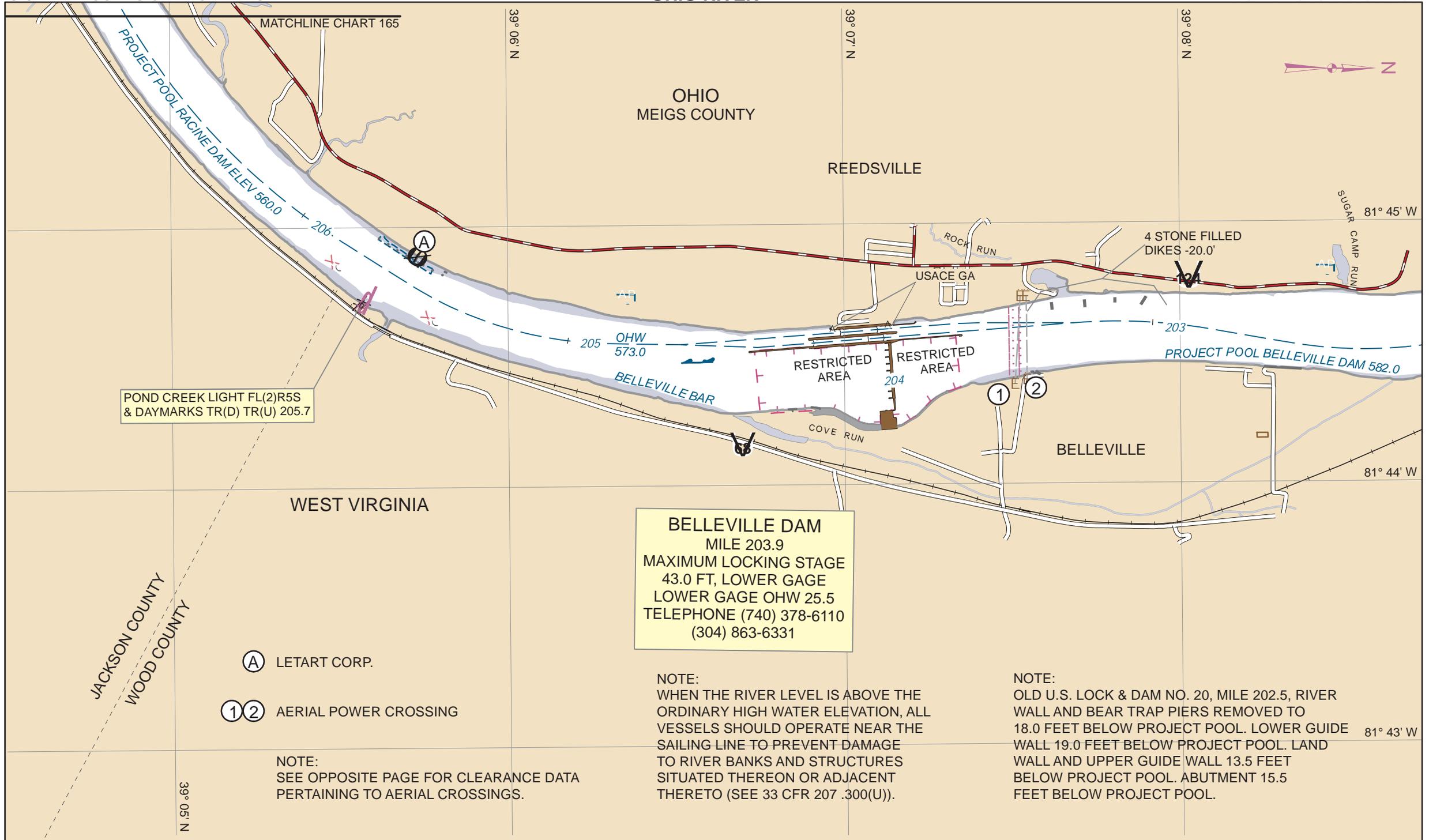
(A) OHIO DNR PUBLIC LAUNCHING RAMP

NOTE:
 WHEN THE RIVER LEVEL IS ABOVE THE
 PROJECT POOL ELEVATION, ALL VESSELS
 SHOULD OPERATE NEAR THE SAILING LINE
 TO PREVENT DAMAGE TO RIVER BANKS
 AND STRUCTURES SITUATED THEREON OR
 ADJACENT THERETO (SEE 33 CFR 207 .300(U)).

MATCHLINE CHART 164

WALL +2.0'

WALL +2.0'



POND CREEK LIGHT FL(2)R5S & DAYMARKS TR(D) TR(U) 205.7

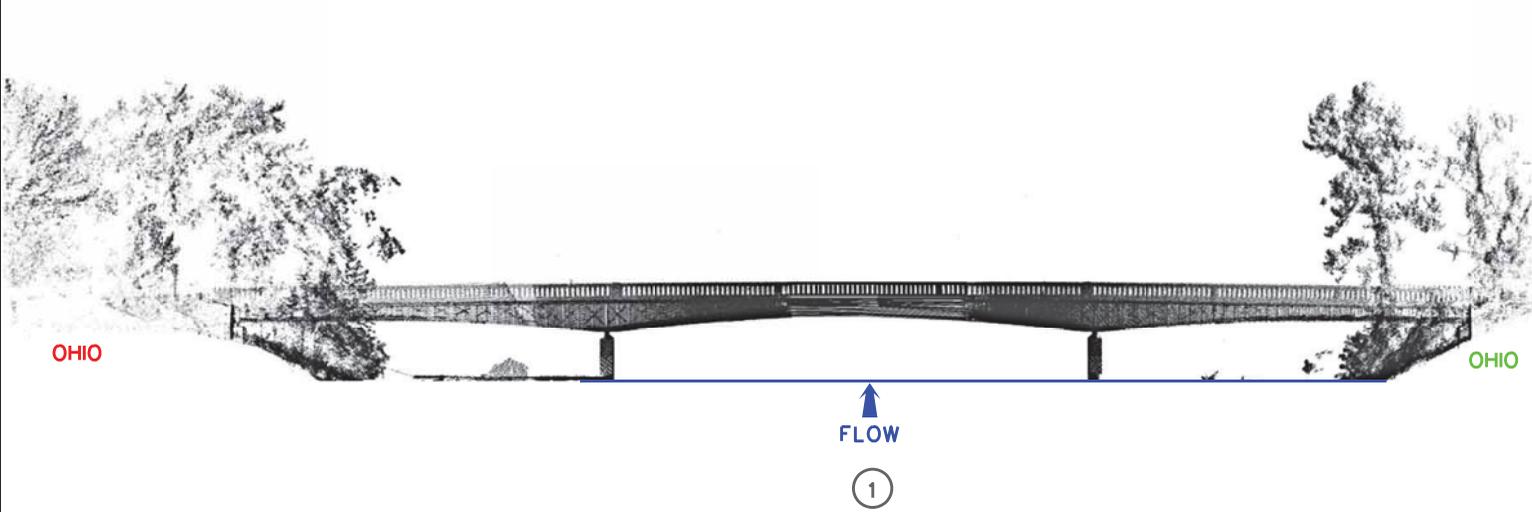
BELLEVILLE DAM
 MILE 203.9
 MAXIMUM LOCKING STAGE
 43.0 FT, LOWER GAGE
 LOWER GAGE OHW 25.5
 TELEPHONE (740) 378-6110
 (304) 863-6331

- (A) LETART CORP.
- (1)(2) AERIAL POWER CROSSING

NOTE:
 SEE OPPOSITE PAGE FOR CLEARANCE DATA
 PERTAINING TO AERIAL CROSSINGS.

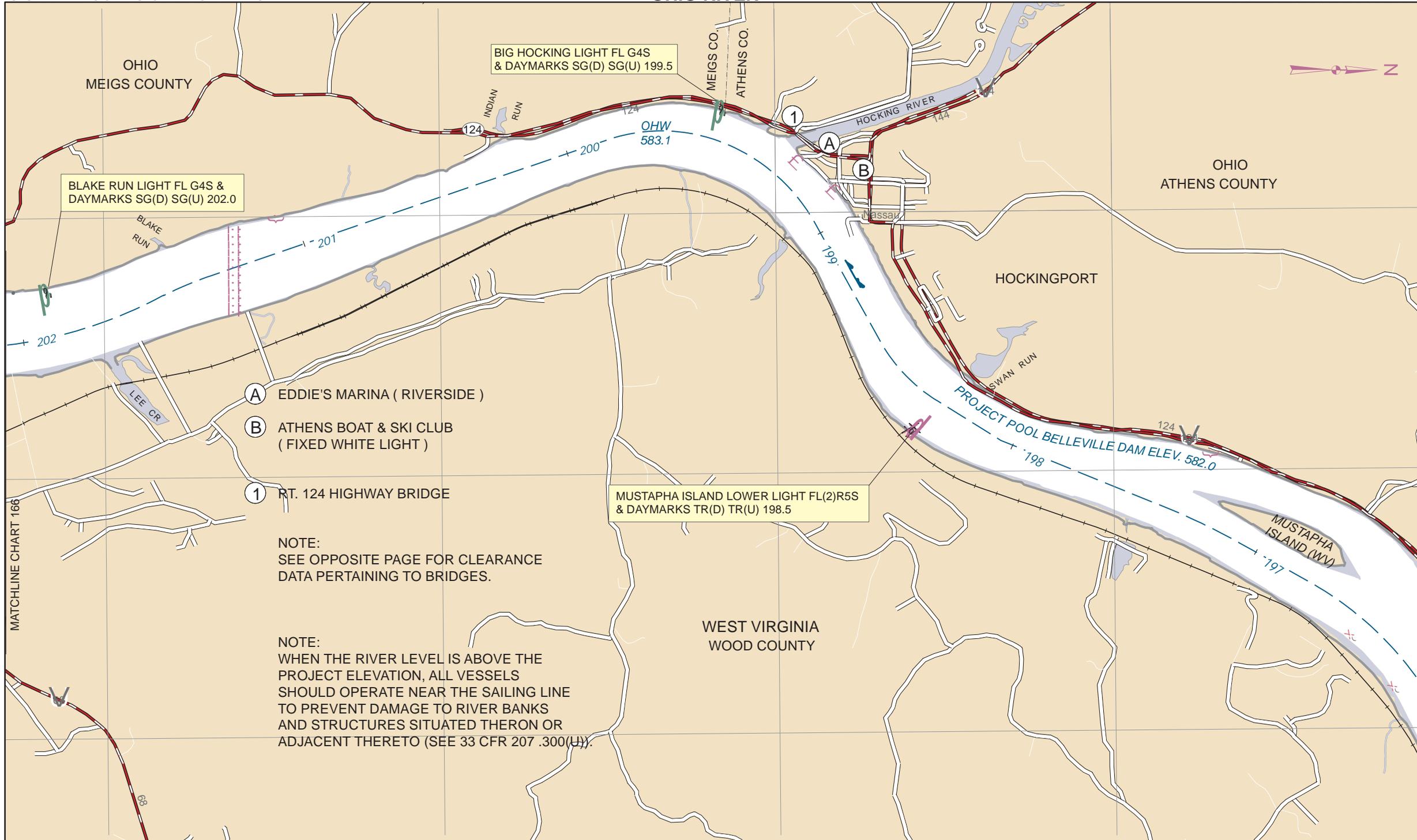
NOTE:
 WHEN THE RIVER LEVEL IS ABOVE THE
 ORDINARY HIGH WATER ELEVATION, ALL
 VESSELS SHOULD OPERATE NEAR THE
 SAILING LINE TO PREVENT DAMAGE
 TO RIVER BANKS AND STRUCTURES
 SITUATED THEREON OR ADJACENT
 THERETO (SEE 33 CFR 207.300(U)).

NOTE:
 OLD U.S. LOCK & DAM NO. 20, MILE 202.5, RIVER
 WALL AND BEAR TRAP PIERS REMOVED TO
 18.0 FEET BELOW PROJECT POOL. LOWER GUIDE
 WALL 19.0 FEET BELOW PROJECT POOL. LAND
 WALL AND UPPER GUIDE WALL 13.5 FEET
 BELOW PROJECT POOL. ABUTMENT 15.5
 FEET BELOW PROJECT POOL.



199.4
①

RT 124 HIGHWAY BRIDGE
CHANNEL SPAN
ELEVATION OF LOW STEEL 597.2'
VERTICAL CLEARANCE AT POOL STAGE 15.2'
HORIZONTAL CLEARANCE 107.5



BLAKE RUN LIGHT FL G4S & DAYMARKS SG(D) SG(U) 202.0

BIG HOCKING LIGHT FL G4S & DAYMARKS SG(D) SG(U) 199.5

MUSTAPHA ISLAND LOWER LIGHT FL(2)R5S & DAYMARKS TR(D) TR(U) 198.5

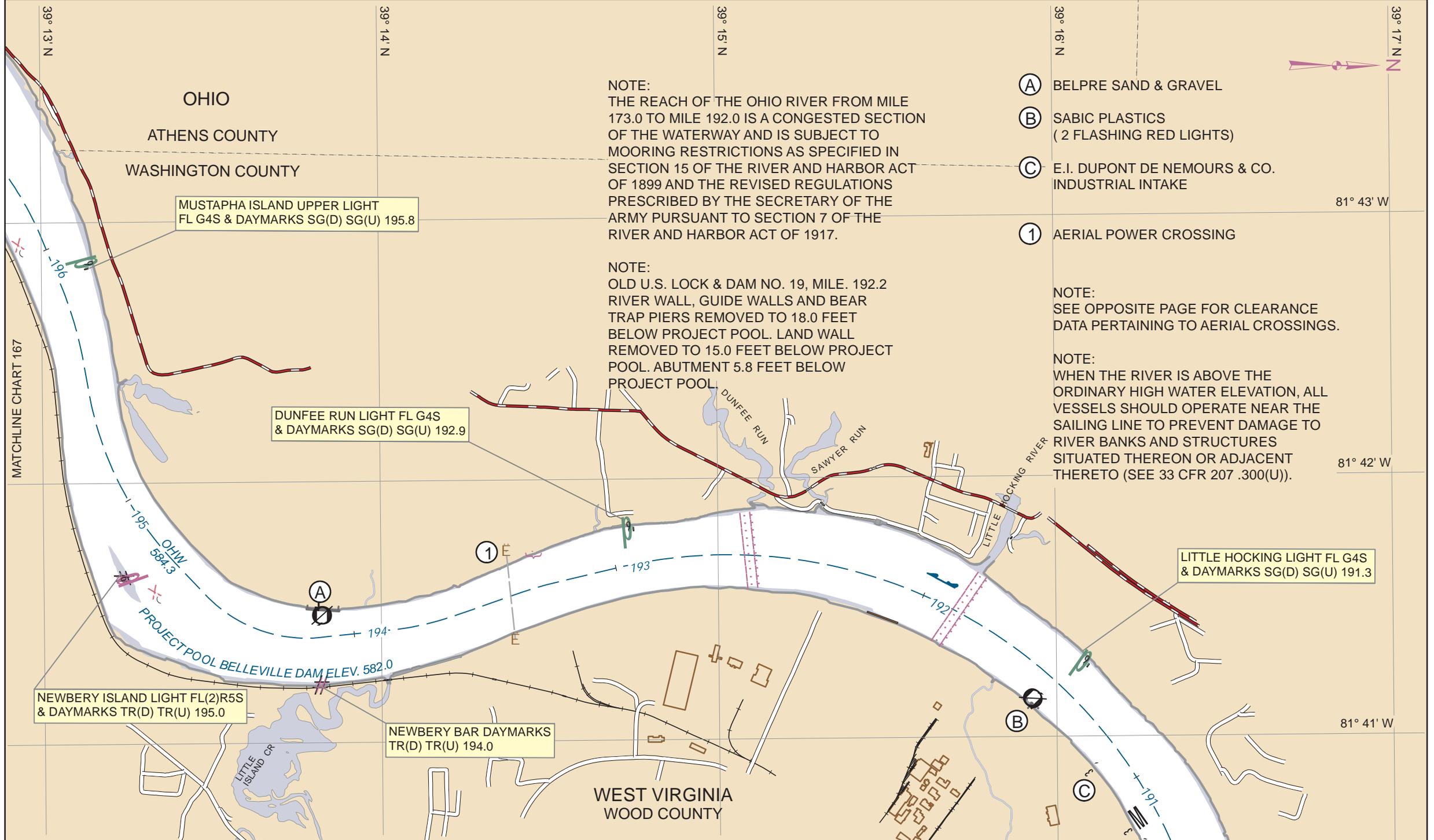
- (A) EDDIE'S MARINA (RIVERSIDE)
- (B) ATHENS BOAT & SKI CLUB (FIXED WHITE LIGHT)
- (1) RT. 124 HIGHWAY BRIDGE

NOTE: SEE OPPOSITE PAGE FOR CLEARANCE DATA PERTAINING TO BRIDGES.

NOTE: WHEN THE RIVER LEVEL IS ABOVE THE PROJECT ELEVATION, ALL VESSELS SHOULD OPERATE NEAR THE SAILING LINE TO PREVENT DAMAGE TO RIVER BANKS AND STRUCTURES SITUATED THERON OR ADJACENT THERETO (SEE 33 CFR 207 .300(U)).

MATCHLINE CHART 166

193.5	①	AERIAL POWER CROSSING	
		ELEVATION LOW POINT OF SAG	664.5'
		VERTICAL CLEARANCE AT POOL STAGE	82.5'
		VERTICAL CLEARANCE - 1913 H.W.	48.5'



NOTE:
 THE REACH OF THE OHIO RIVER FROM MILE 173.0 TO MILE 192.0 IS A CONGESTED SECTION OF THE WATERWAY AND IS SUBJECT TO MOORING RESTRICTIONS AS SPECIFIED IN SECTION 15 OF THE RIVER AND HARBOR ACT OF 1899 AND THE REVISED REGULATIONS PRESCRIBED BY THE SECRETARY OF THE ARMY PURSUANT TO SECTION 7 OF THE RIVER AND HARBOR ACT OF 1917.

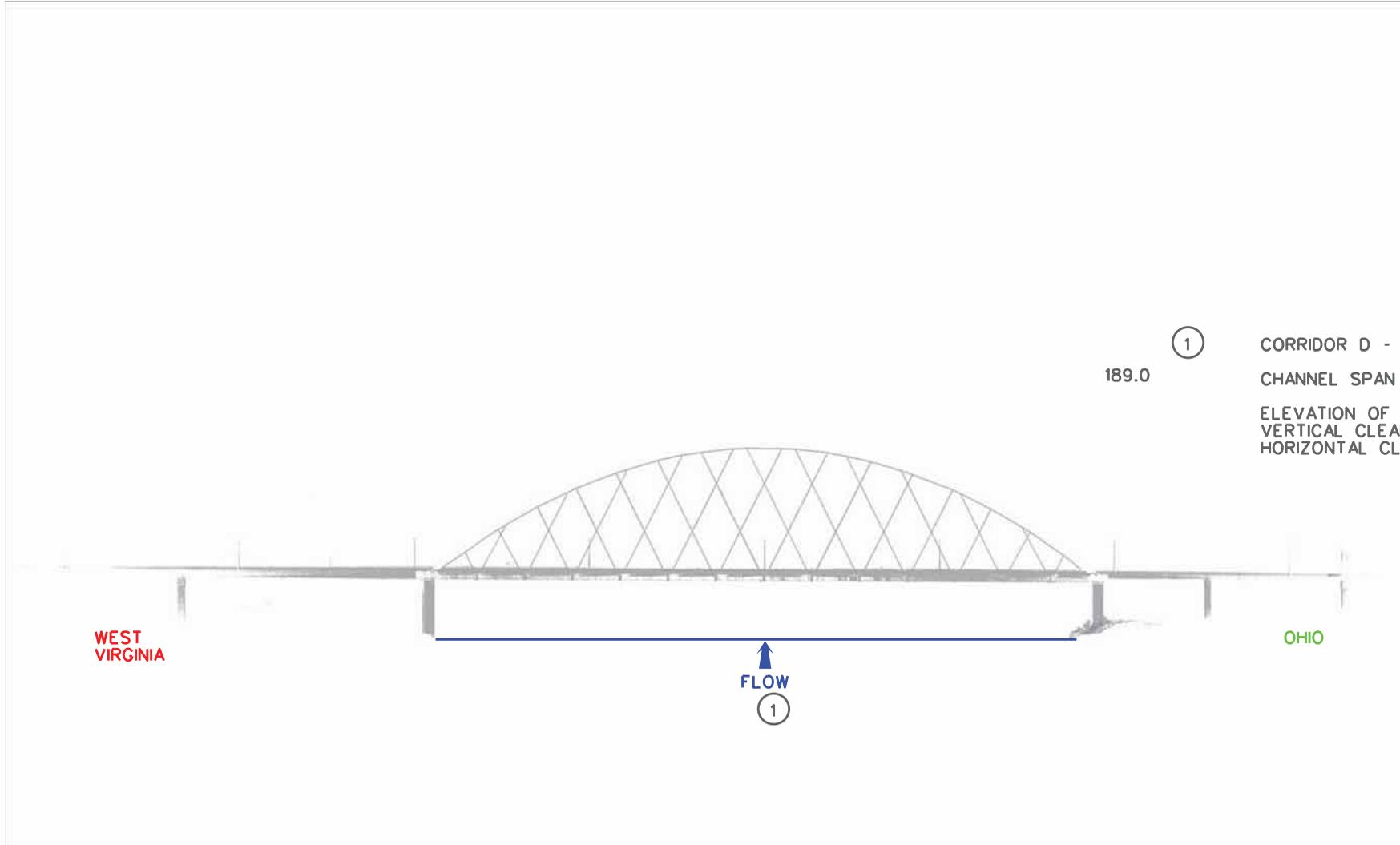
NOTE:
 OLD U.S. LOCK & DAM NO. 19, MILE. 192.2 RIVER WALL, GUIDE WALLS AND BEAR TRAP PIERS REMOVED TO 18.0 FEET BELOW PROJECT POOL. LAND WALL REMOVED TO 15.0 FEET BELOW PROJECT POOL. ABUTMENT 5.8 FEET BELOW PROJECT POOL.

- (A) BELPRE SAND & GRAVEL
- (B) SABIC PLASTICS (2 FLASHING RED LIGHTS)
- (C) E.I. DUPONT DE NEMOURS & CO. INDUSTRIAL INTAKE
- (1) AERIAL POWER CROSSING

NOTE:
 SEE OPPOSITE PAGE FOR CLEARANCE DATA PERTAINING TO AERIAL CROSSINGS.

NOTE:
 WHEN THE RIVER IS ABOVE THE ORDINARY HIGH WATER ELEVATION, ALL VESSELS SHOULD OPERATE NEAR THE SAILING LINE TO PREVENT DAMAGE TO RIVER BANKS AND STRUCTURES SITUATED THEREON OR ADJACENT THERETO (SEE 33 CFR 207 .300(U)).

MATCHLINE CHART 167



WEST VIRGINIA

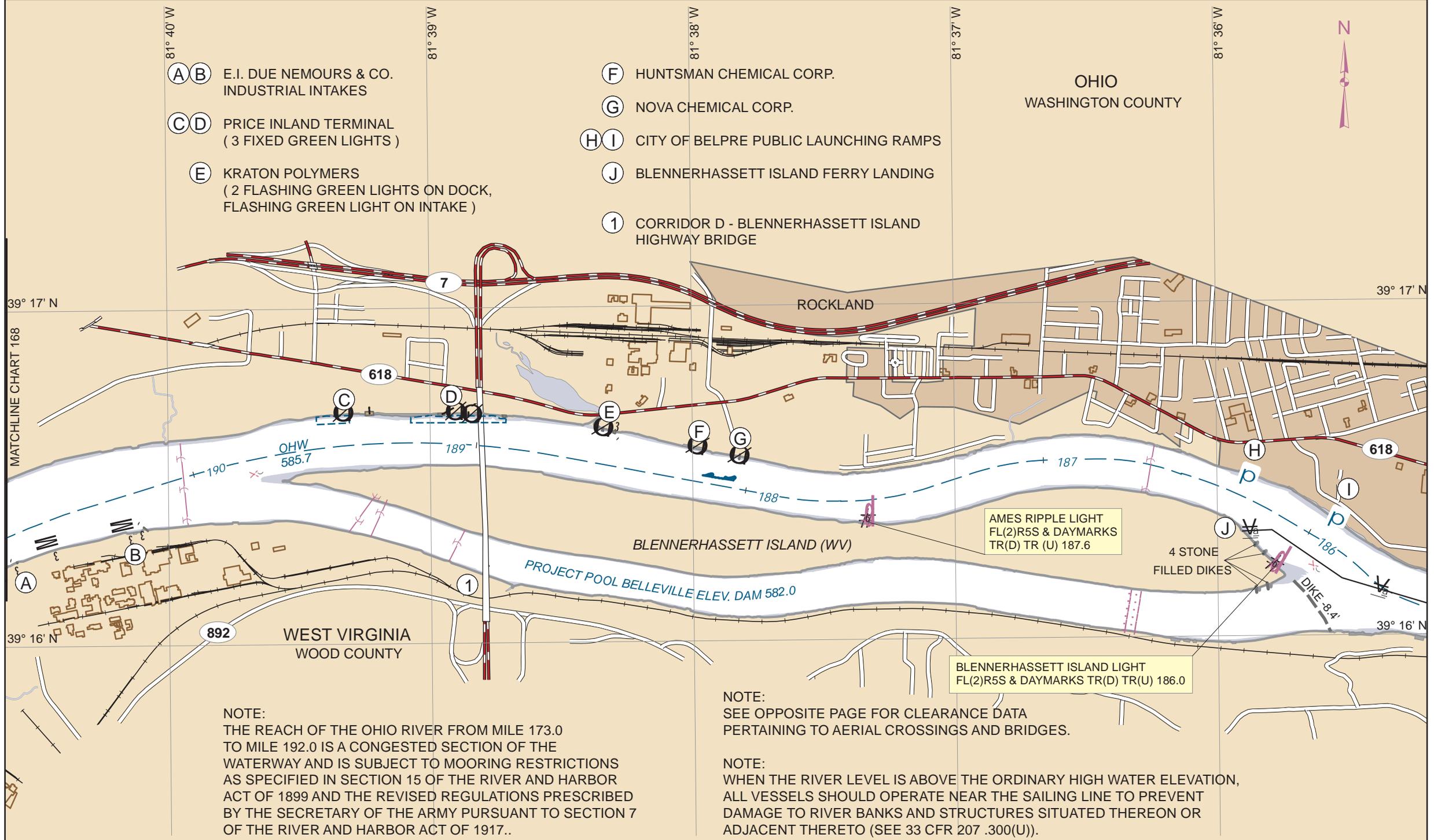
OHIO

189.0
①

CORRIDOR D - BLENNERHASSETT ISLAND HIGHWAY BRIDGE

CHANNEL SPAN

ELEVATION OF LOW STEEL 658.0'
VERTICAL CLEARANCE AT POOL STAGE 76.0'
HORIZONTAL CLEARANCE 868'





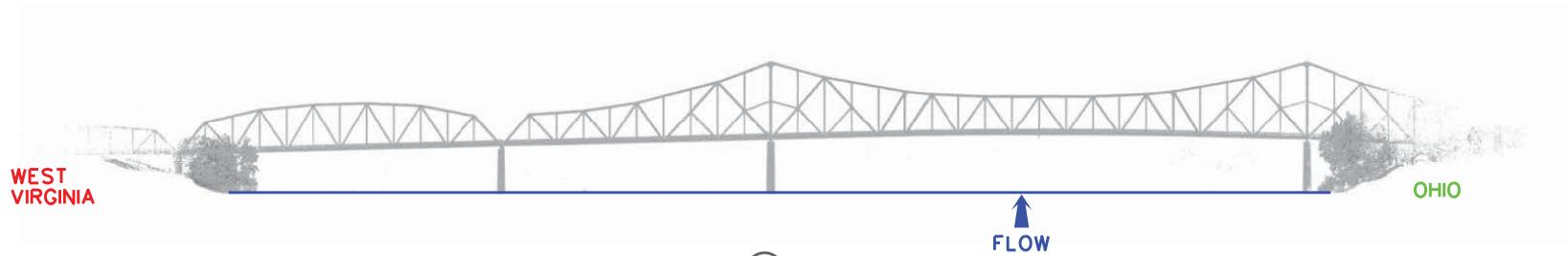
① ②

①	PARKERSBURG - BELPRE HIGHWAY BRIDGE	
184.3 (DOWNSTREAM)	CHANNEL SPAN	
	ELEVATION OF LOW STEEL	650.8'
	VERTICAL CLEARANCE AT POOL STAGE	68.8'
	VERTICAL CLEARANCE - 1913 H.W.	29.8'
	HORIZONTAL CLEARANCE	723'

②	B&O RAILROAD BRIDGE	
184.3 (UPSTREAM)	CHANNEL SPAN	
	ELEVATION OF LOW STEEL	652.1'
	VERTICAL CLEARANCE AT POOL STAGE	70.1'
	VERTICAL CLEARANCE - 1913 H.W.	31.7'
	HORIZONTAL CLEARANCE	326.5'

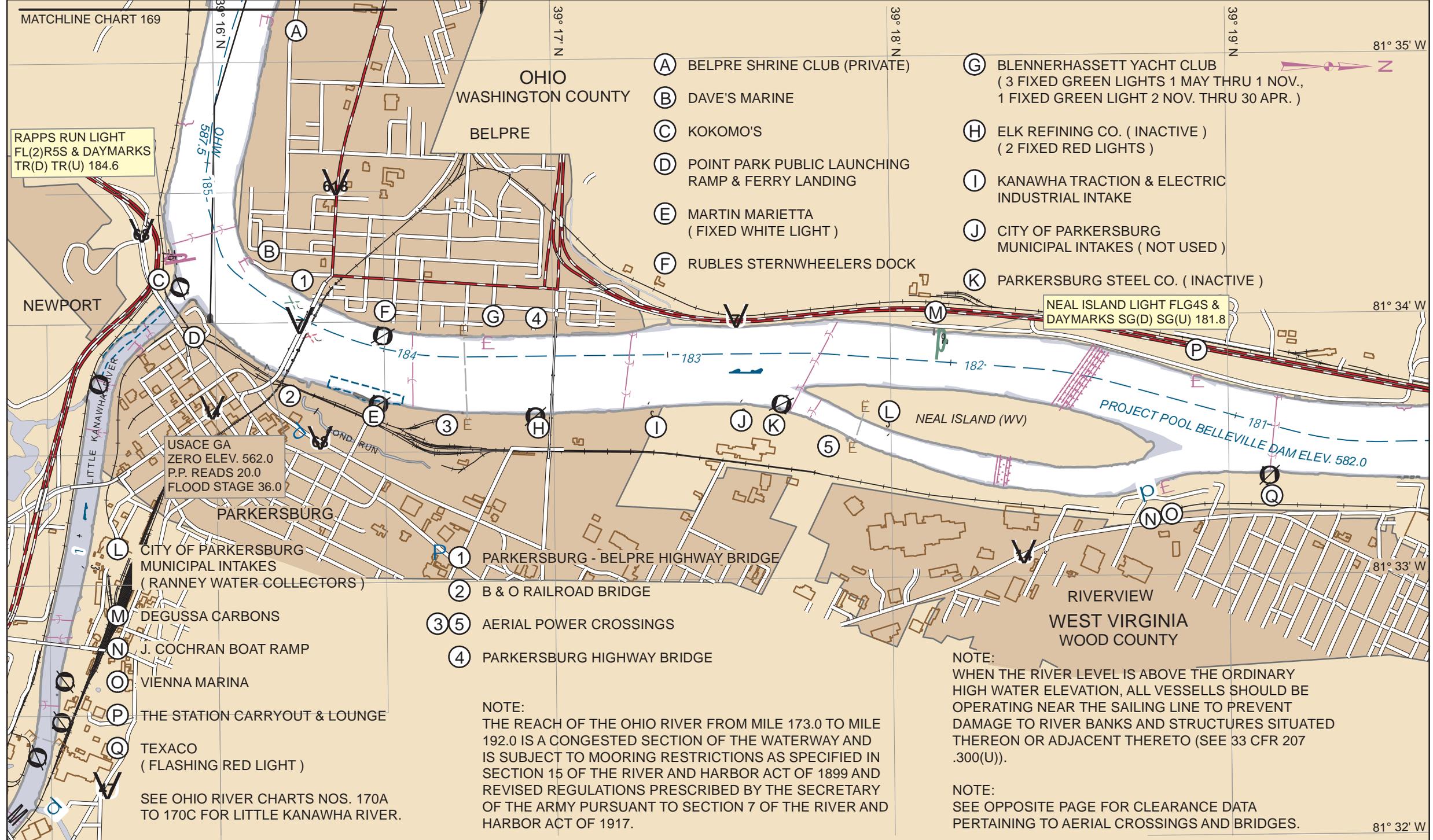
③	AERIAL POWER CROSSING	
183.8	ELEVATION LOW POINT OF SAG	675.8'
	VERTICAL CLEARANCE AT POOL STAGE	93.8'
	VERTICAL CLEARANCE - 1913 H.W.	54.5'

④	PARKERSBURG HIGHWAY BRIDGE	
183.5	CHANNEL SPAN	
	ELEVATION OF LOW STEEL	651.8'
	VERTICAL CLEARANCE AT POOL STAGE	69.8'
	VERTICAL CLEARANCE - 1913 H.W.	30.3'
	HORIZONTAL CLEARANCE	685.0'



④

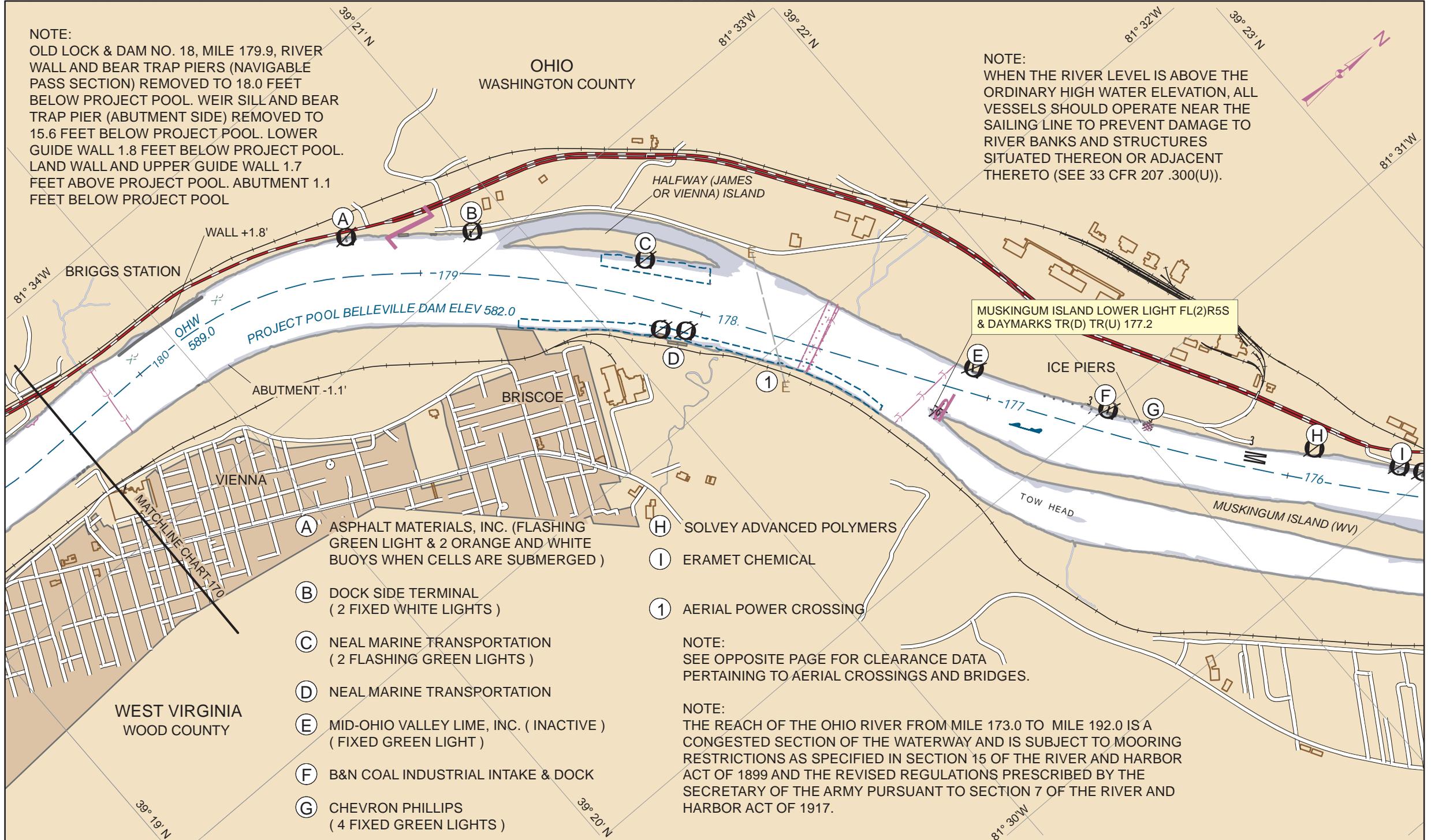
⑤	AERIAL POWER CROSSING	
182.2 BACK CHANNEL	ELEVATION LOW POINT OF SAG	662.5'
	VERTICAL CLEARANCE AT POOL STAGE	80.5'
	VERTICAL CLEARANCE - 1913 H.W.	40.8'



177.8	①	AERIAL POWER CROSSING	
		ELEVATION LOW POINT OF SAG	677.0'
		VERTICAL CLEARANCE AT POOL STAGE	95.0'
		VERTICAL CLEARANCE - 1913 H.W.	53.0'

NOTE:
 OLD LOCK & DAM NO. 18, MILE 179.9, RIVER WALL AND BEAR TRAP PIERS (NAVIGABLE PASS SECTION) REMOVED TO 18.0 FEET BELOW PROJECT POOL. WEIR SILL AND BEAR TRAP PIER (ABUTMENT SIDE) REMOVED TO 15.6 FEET BELOW PROJECT POOL. LOWER GUIDE WALL 1.8 FEET BELOW PROJECT POOL. LAND WALL AND UPPER GUIDE WALL 1.7 FEET ABOVE PROJECT POOL. ABUTMENT 1.1 FEET BELOW PROJECT POOL

NOTE:
 WHEN THE RIVER LEVEL IS ABOVE THE ORDINARY HIGH WATER ELEVATION, ALL VESSELS SHOULD OPERATE NEAR THE SAILING LINE TO PREVENT DAMAGE TO RIVER BANKS AND STRUCTURES SITUATED THEREON OR ADJACENT THERETO (SEE 33 CFR 207 .300(U)).



- A** ASPHALT MATERIALS, INC. (FLASHING GREEN LIGHT & 2 ORANGE AND WHITE BUOYS WHEN CELLS ARE SUBMERGED)
- B** DOCK SIDE TERMINAL (2 FIXED WHITE LIGHTS)
- C** NEAL MARINE TRANSPORTATION (2 FLASHING GREEN LIGHTS)
- D** NEAL MARINE TRANSPORTATION
- E** MID-OHIO VALLEY LIME, INC. (INACTIVE) (FIXED GREEN LIGHT)
- F** B&N COAL INDUSTRIAL INTAKE & DOCK
- G** CHEVRON PHILLIPS (4 FIXED GREEN LIGHTS)
- H** SOLVEY ADVANCED POLYMERS
- I** ERAMET CHEMICAL
- 1** AERIAL POWER CROSSING

NOTE:
 SEE OPPOSITE PAGE FOR CLEARANCE DATA PERTAINING TO AERIAL CROSSINGS AND BRIDGES.

NOTE:
 THE REACH OF THE OHIO RIVER FROM MILE 173.0 TO MILE 192.0 IS A CONGESTED SECTION OF THE WATERWAY AND IS SUBJECT TO MOORING RESTRICTIONS AS SPECIFIED IN SECTION 15 OF THE RIVER AND HARBOR ACT OF 1899 AND THE REVISED REGULATIONS PRESCRIBED BY THE SECRETARY OF THE ARMY PURSUANT TO SECTION 7 OF THE RIVER AND HARBOR ACT OF 1917.



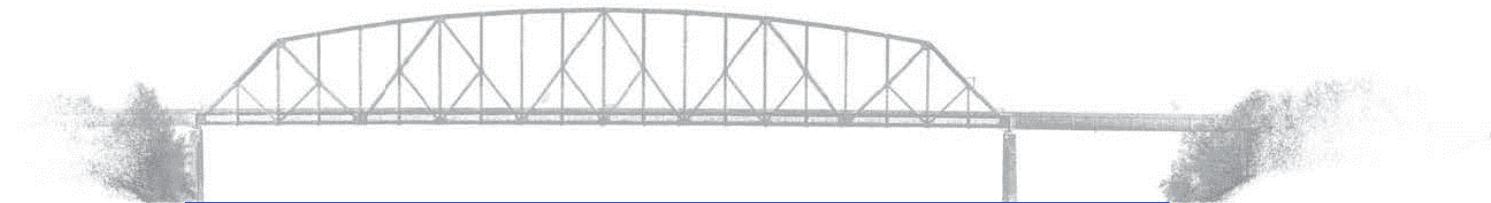
WEST VIRGINIA

↑
FLOW

OHIO

①

171.8 ① WILLIAMSTOWN - MARIETTA HIGHWAY BRIDGE
 CHANNEL SPAN
 ELEVATION OF LOW STEEL 651.6'
 VERTICAL CLEARANCE AT POOL STAGE 69.6'
 VERTICAL CLEARANCE - 1913 H.W. 24.6'
 HORIZONTAL CLEARANCE 635'



WEST VIRGINIA

↑
FLOW

OHIO

②

170.8 ② INTERSTATE ROUTE 77 HIGHWAY BRIDGE
 CHANNEL SPAN
 ELEVATION OF LOW STEEL 650.3'
 VERTICAL CLEARANCE AT POOL STAGE 68.3'
 VERTICAL CLEARANCE - 1913 H.W. 23.3'
 HORIZONTAL CLEARANCE 637.0'

NOTE:
 WHEN THE RIVER LEVEL IS ABOVE THE ORDINARY HIGH WATER ELEVATION,
 ALL VESSELS SHOULD OPERATE NEAR THE SAILING LINE TO PREVENT DAMAGE
 TO RIVER BANKS AND STRUCTURES SITUATED THEREON OR ADJACENT
 THERETO (SEE 33 CFR 207 .300(U)).

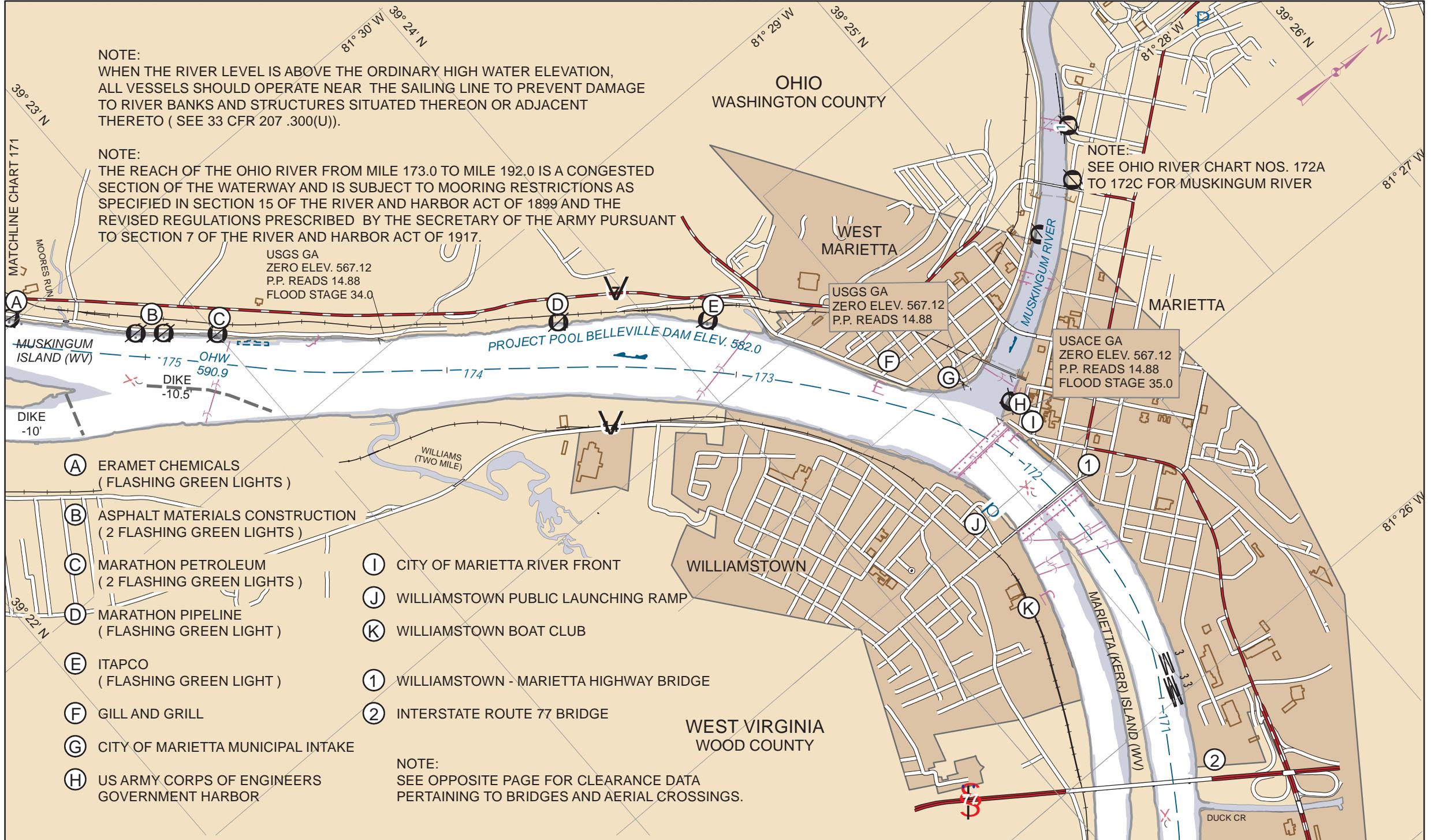
NOTE:
 THE REACH OF THE OHIO RIVER FROM MILE 173.0 TO MILE 192.0 IS A CONGESTED
 SECTION OF THE WATERWAY AND IS SUBJECT TO MOORING RESTRICTIONS AS
 SPECIFIED IN SECTION 15 OF THE RIVER AND HARBOR ACT OF 1899 AND THE
 REVISED REGULATIONS PRESCRIBED BY THE SECRETARY OF THE ARMY PURSUANT
 TO SECTION 7 OF THE RIVER AND HARBOR ACT OF 1917.

NOTE:
 SEE OHIO RIVER CHART NOS. 172A
 TO 172C FOR MUSKINGUM RIVER

USGS GA
 ZERO ELEV. 567.12
 P.P. READS 14.88
 FLOOD STAGE 34.0

USGS GA
 ZERO ELEV. 567.12
 P.P. READS 14.88

USACE GA
 ZERO ELEV. 567.12
 P.P. READS 14.88
 FLOOD STAGE 35.0



(A) ERAMET CHEMICALS
 (FLASHING GREEN LIGHTS)

(B) ASPHALT MATERIALS CONSTRUCTION
 (2 FLASHING GREEN LIGHTS)

(C) MARATHON PETROLEUM
 (2 FLASHING GREEN LIGHTS)

(D) MARATHON PIPELINE
 (FLASHING GREEN LIGHT)

(E) ITAPCO
 (FLASHING GREEN LIGHT)

(F) GILL AND GRILL

(G) CITY OF MARIETTA MUNICIPAL INTAKE

(H) US ARMY CORPS OF ENGINEERS
 GOVERNMENT HARBOR

(I) CITY OF MARIETTA RIVER FRONT

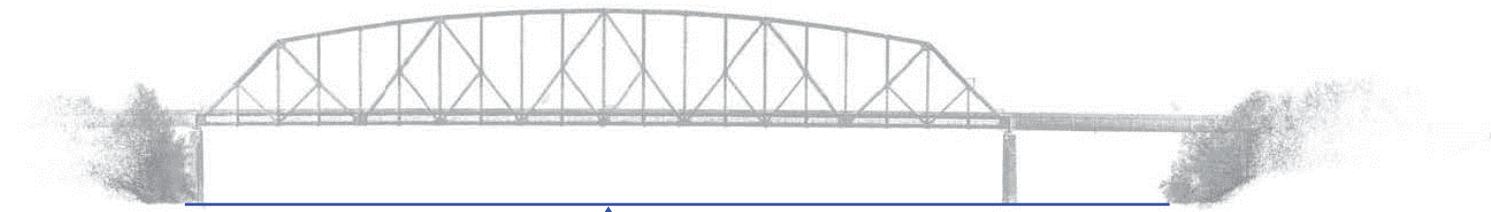
(J) WILLIAMSTOWN PUBLIC LAUNCHING RAMP

(K) WILLIAMSTOWN BOAT CLUB

(1) WILLIAMSTOWN - MARIETTA HIGHWAY BRIDGE

(2) INTERSTATE ROUTE 77 BRIDGE

NOTE:
 SEE OPPOSITE PAGE FOR CLEARANCE DATA
 PERTAINING TO BRIDGES AND AERIAL CROSSINGS.



WEST
VIRGINIA

FLOW

OHIO

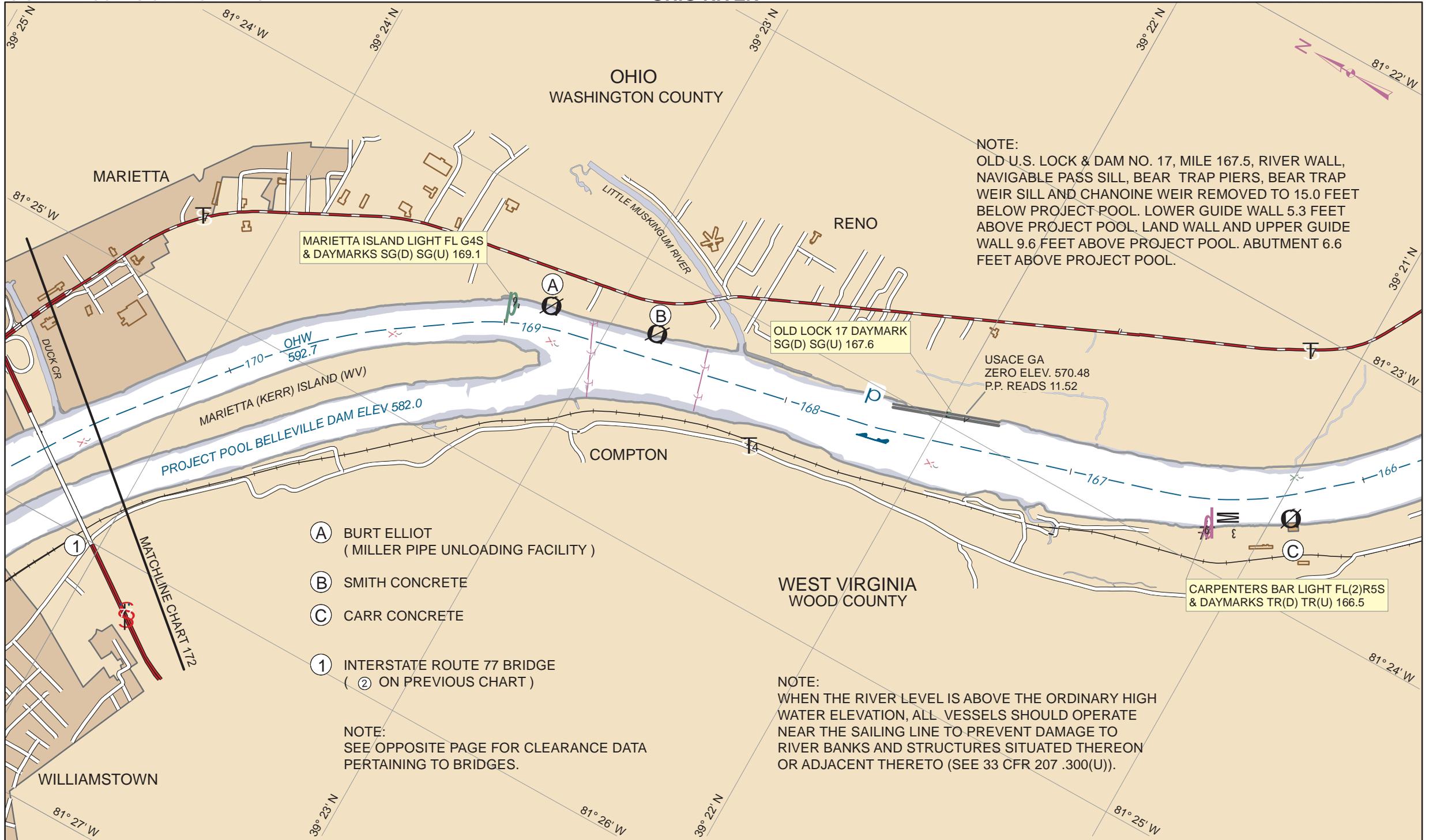
①

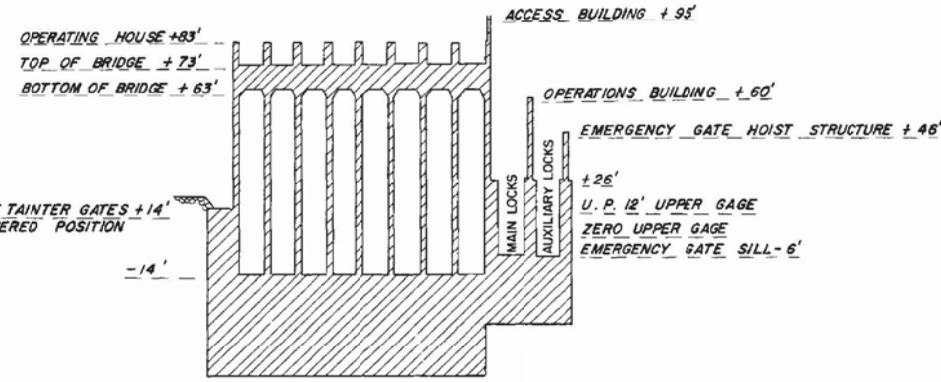
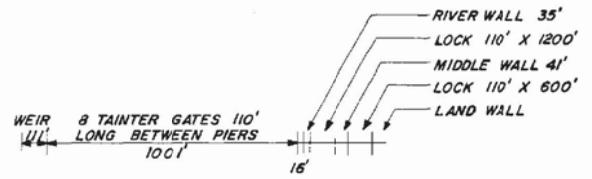
①

170.8

INTERSTATE ROUTE 77 HIGHWAY BRIDGE
CHANNEL SPAN

ELEVATION OF LOW STEEL	650.3'
VERTICAL CLEARANCE AT POOL STAGE	68.3'
VERTICAL CLEARANCE - 1913 H.W.	23.3'
HORIZONTAL CLEARANCE	637.0'

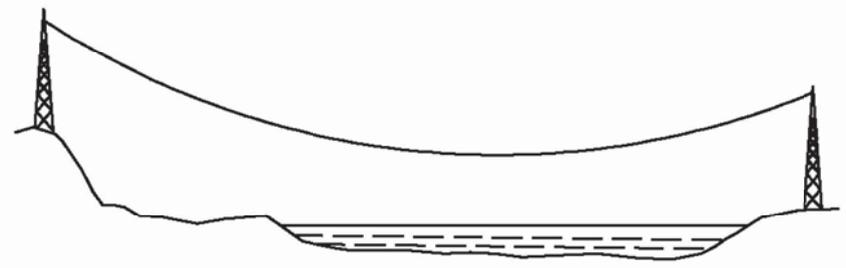




(ELEVATION LOOKING DOWNSTREAM)
No Scale

NOTE
THE TOPS OF THE UPPER AND LOWER MITER GATE SILLS OF THE MAIN AND AUXILIARY LOCKS ARE AT ELEVATION 567.0 FEET, M.S.L.

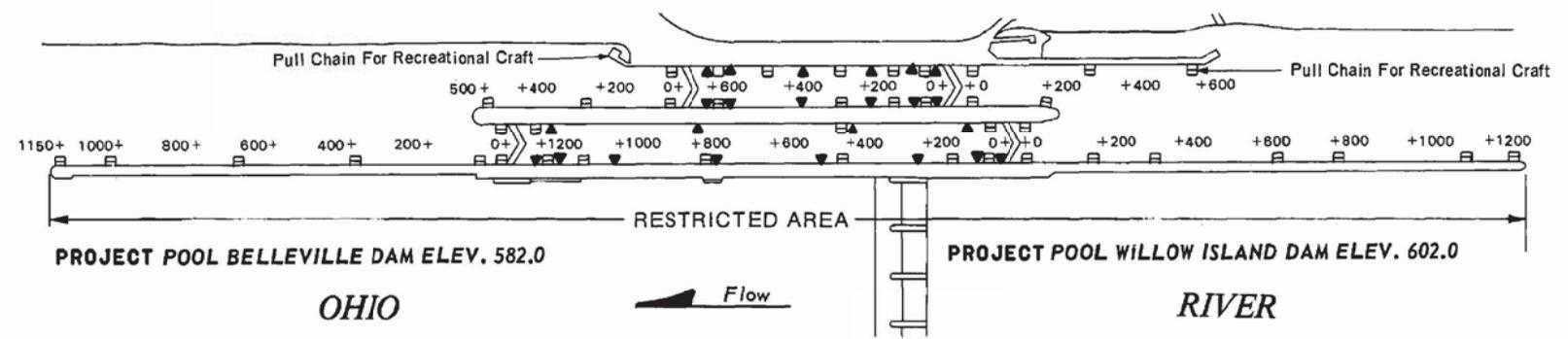
UPPER GAGE:	
ZERO ELEV.	590.0'
P.P. READS	12.0'
LOWER GAGE:	
ZERO ELEV.	570.0'
P.P. READS	12.0'



①
AERIAL POWER CROSSING

ELEVATION LOW POINT OF SAG 681.2'
VERTICAL CLEARANCE AT POOL STAGE 99.2'
VERTICAL CLEARANCE - 1913 H.W. 52.7'

OHIO



OHIO

RIVER

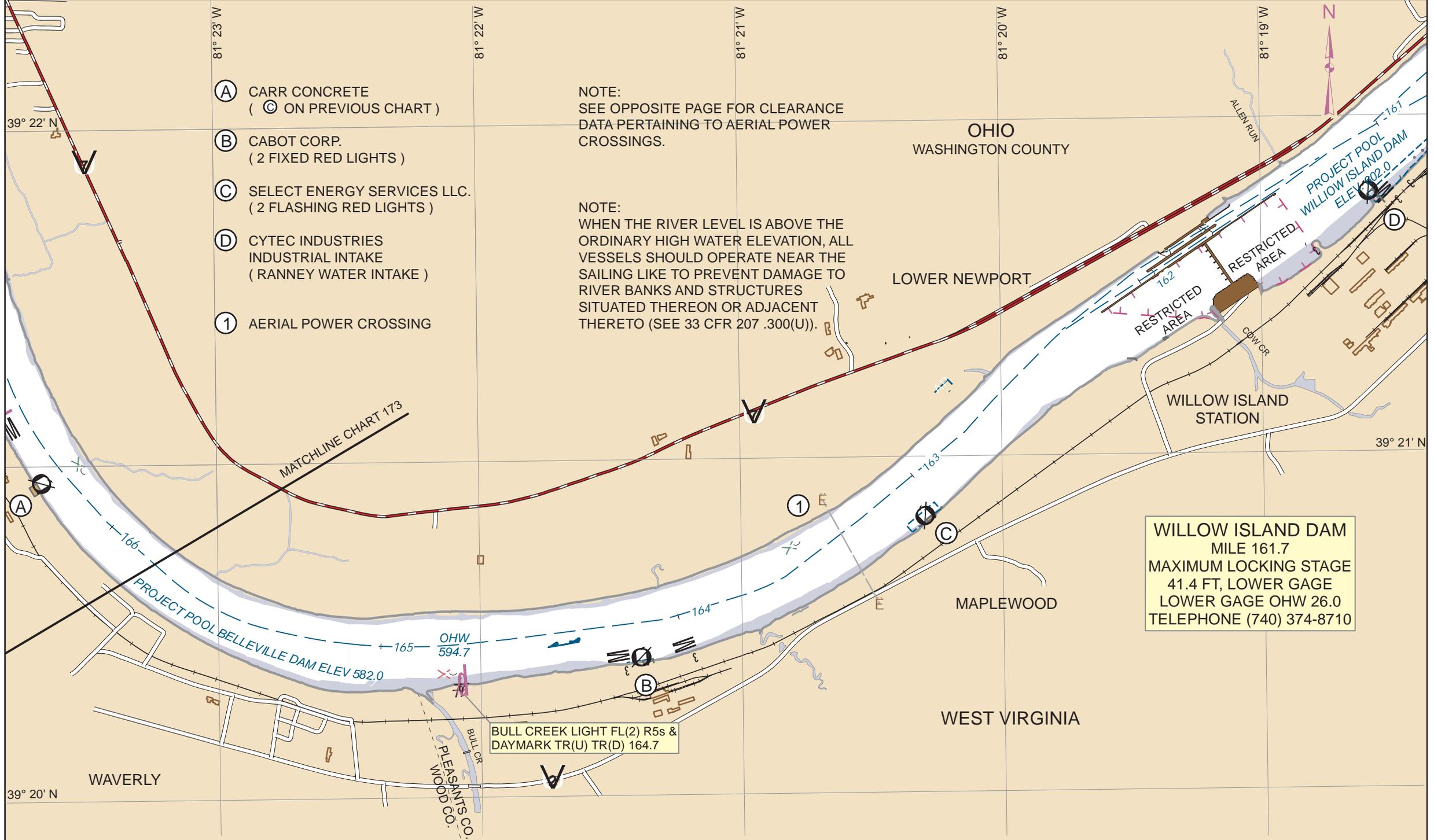
LEGEND

- ▲ FLOATING MOORING BIT
- ▢ LADDERS-Black and White striped.
- 200+ Distance in feet from gate.

Scale: 1 inch equals 400 feet.

NOTE:
Ordinary high water lower gage - 26.0'
Maximum locking stage 41.4' lower gage

WILLOW ISLAND
LOCKS AND DAM
MILE 161.7



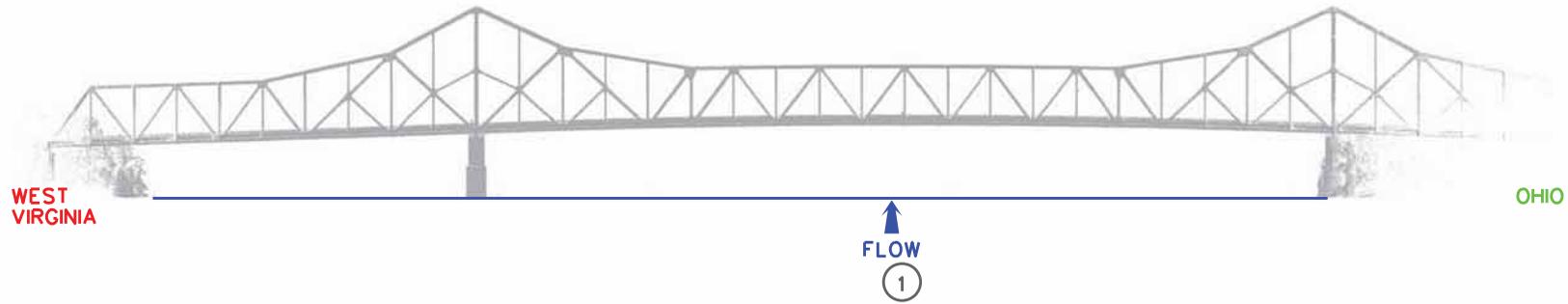
- (A) CARR CONCRETE
((C) ON PREVIOUS CHART)
- (B) CABOT CORP.
(2 FIXED RED LIGHTS)
- (C) SELECT ENERGY SERVICES LLC.
(2 FLASHING RED LIGHTS)
- (D) CYTEC INDUSTRIES
INDUSTRIAL INTAKE
(RANNEY WATER INTAKE)
- (1) AERIAL POWER CROSSING

NOTE:
SEE OPPOSITE PAGE FOR CLEARANCE
DATA PERTAINING TO AERIAL POWER
CROSSINGS.

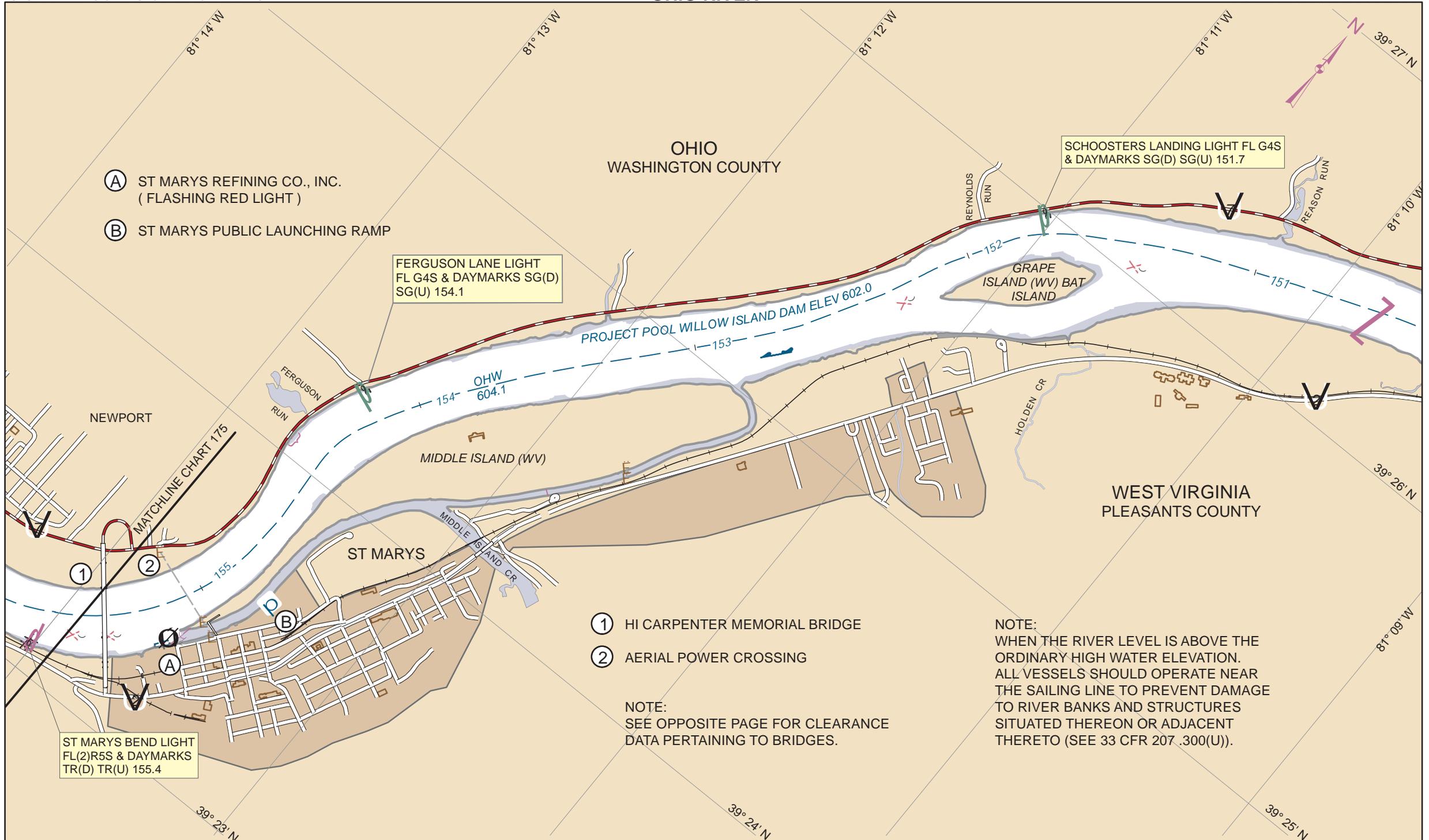
NOTE:
WHEN THE RIVER LEVEL IS ABOVE THE
ORDINARY HIGH WATER ELEVATION, ALL
VESSELS SHOULD OPERATE NEAR THE
SAILING LIKE TO PREVENT DAMAGE TO
RIVER BANKS AND STRUCTURES
SITUATED THEREON OR ADJACENT
THERETO (SEE 33 CFR 207 .300(U)).

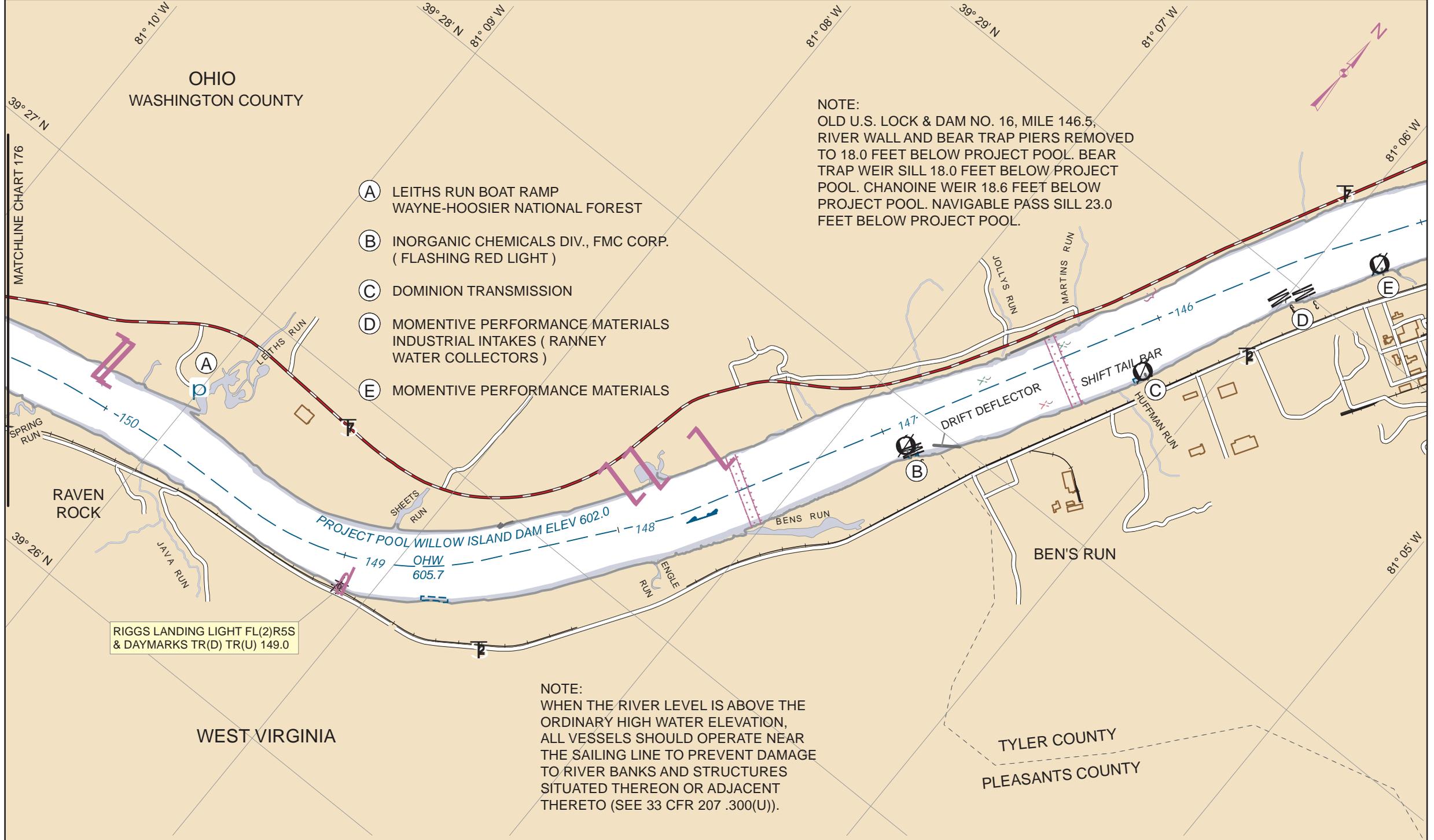
WILLOW ISLAND DAM
MILE 161.7
MAXIMUM LOCKING STAGE
41.4 FT, LOWER GAGE
LOWER GAGE OHW 26.0
TELEPHONE (740) 374-8710

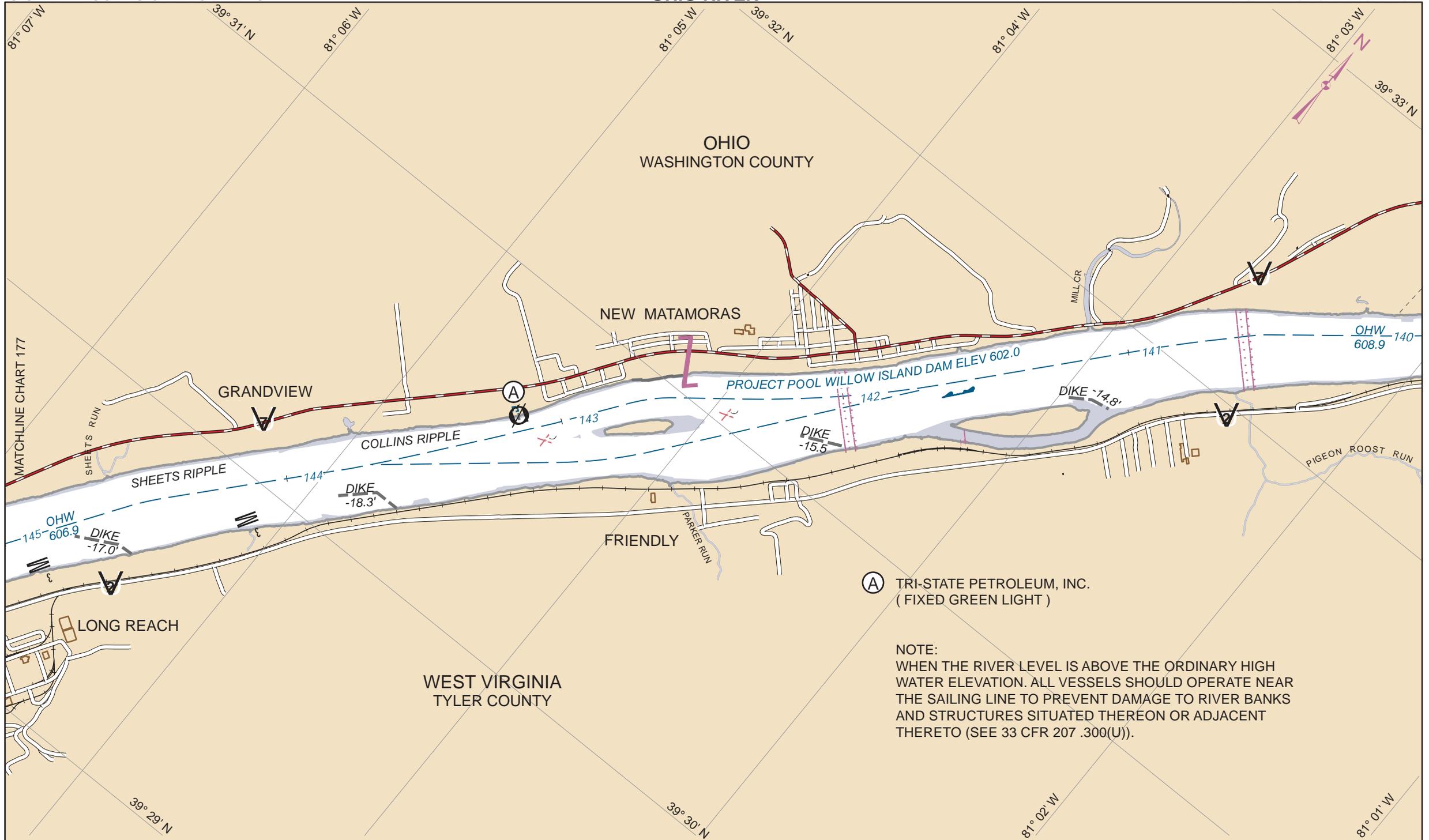
BULL CREEK LIGHT FL(2) R5s &
DAYMARK TR(U) TR(D) 164.7



155.3	① HICARPENTER MEMORIAL BRIDGE CHANNEL SPAN	ELEVATION OF LOW STEEL 669.1' VERTICAL CLEARANCE AT POOL STAGE 67.1' VERTICAL CLEARANCE - 1913 H.W. 37.6' HORIZONTAL CLEARANCE 880'
155.1	② AERIAL POWER CROSSING	ELEVATION LOW POINT OF SAG 700.0' VERTICAL CLEARANCE AT POOL STAGE 98.0' VERTICAL CLEARANCE - 1913 H.W. 68.5'

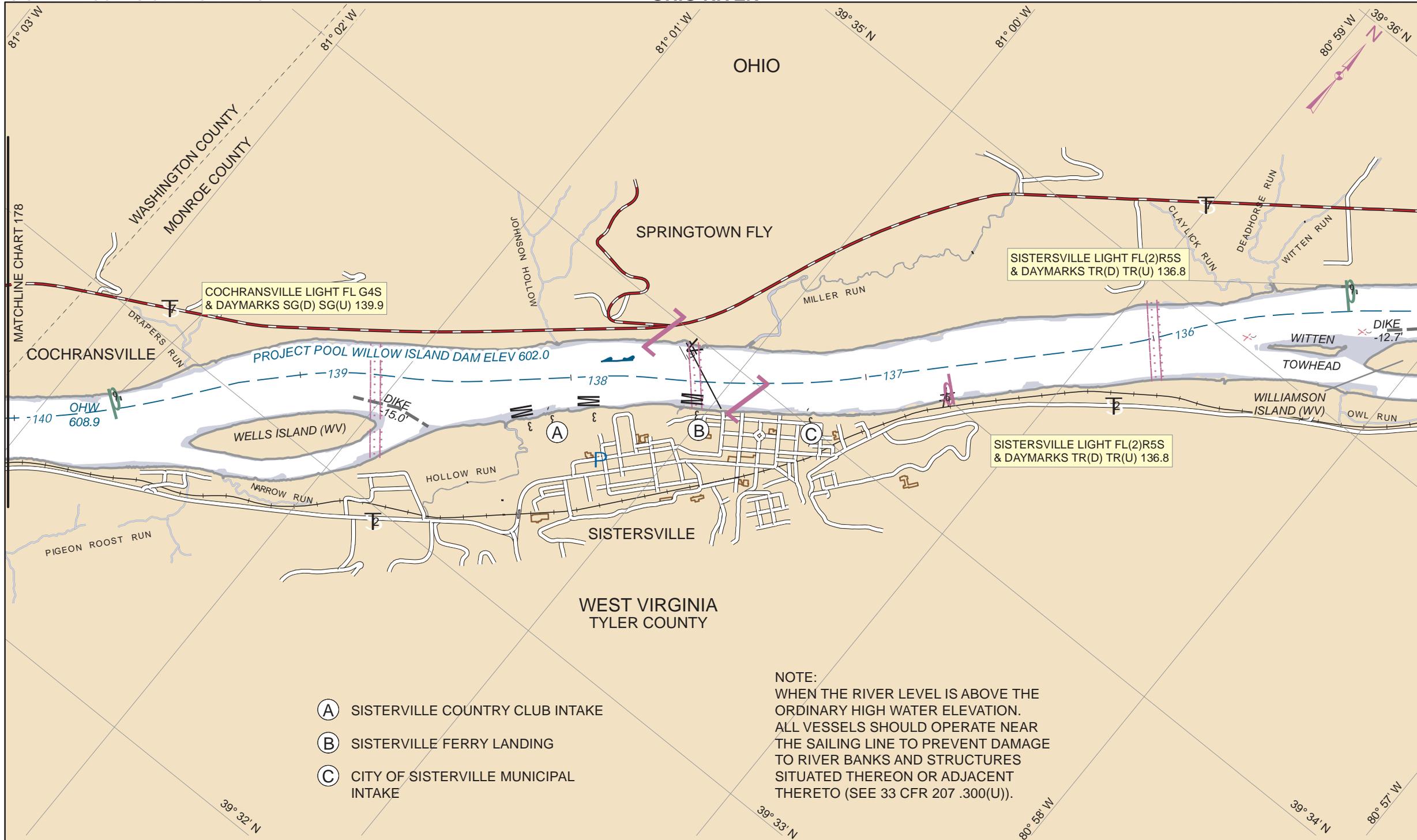






(A) TRI-STATE PETROLEUM, INC.
(FIXED GREEN LIGHT)

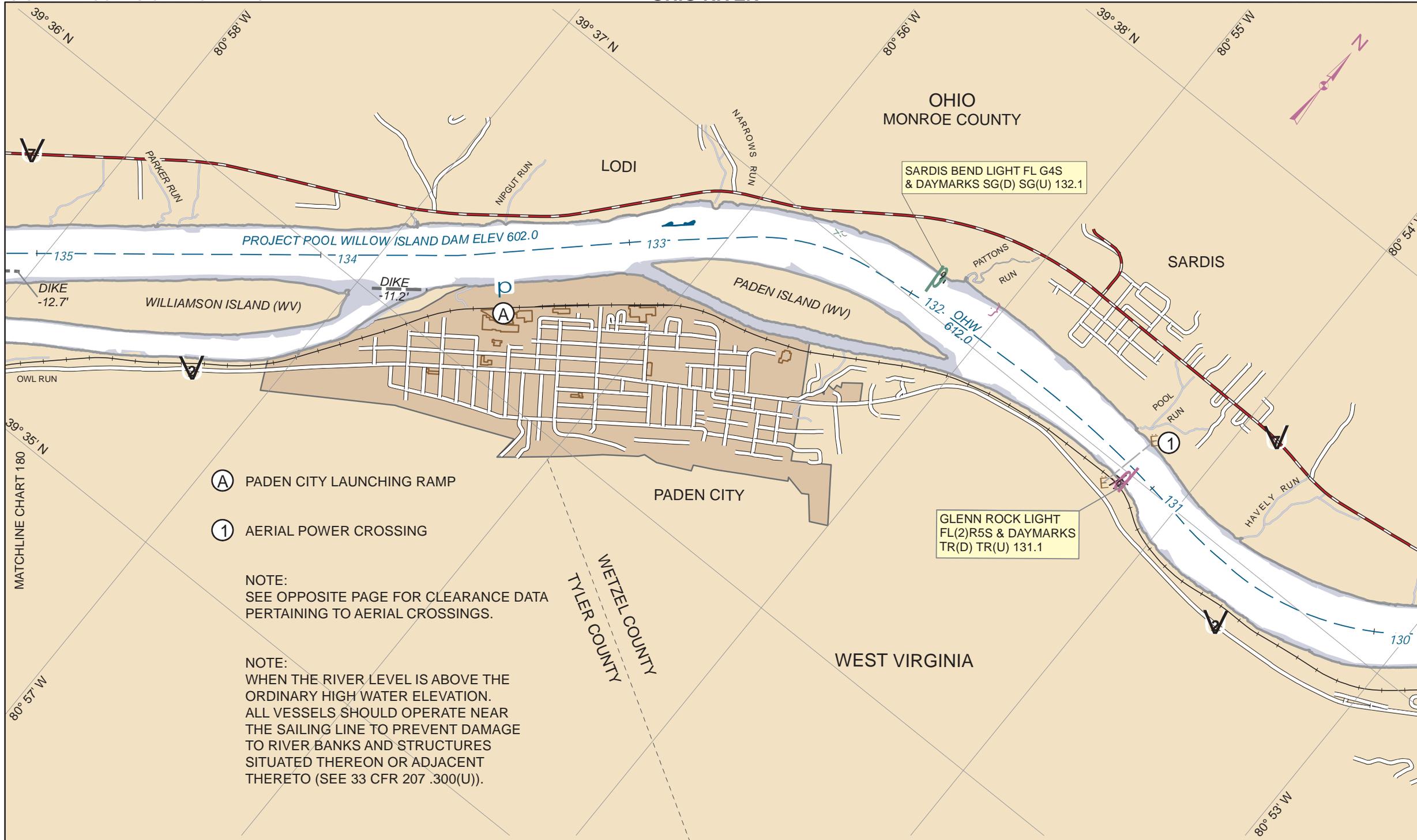
NOTE:
WHEN THE RIVER LEVEL IS ABOVE THE ORDINARY HIGH WATER ELEVATION. ALL VESSELS SHOULD OPERATE NEAR THE SAILING LINE TO PREVENT DAMAGE TO RIVER BANKS AND STRUCTURES SITUATED THEREON OR ADJACENT THERETO (SEE 33 CFR 207 .300(U)).



- (A) SISTERSVILLE COUNTRY CLUB INTAKE
- (B) SISTERSVILLE FERRY LANDING
- (C) CITY OF SISTERSVILLE MUNICIPAL INTAKE

NOTE:
 WHEN THE RIVER LEVEL IS ABOVE THE
 ORDINARY HIGH WATER ELEVATION.
 ALL VESSELS SHOULD OPERATE NEAR
 THE SAILING LINE TO PREVENT DAMAGE
 TO RIVER BANKS AND STRUCTURES
 SITUATED THEREON OR ADJACENT
 THERETO (SEE 33 CFR 207 .300(U)).

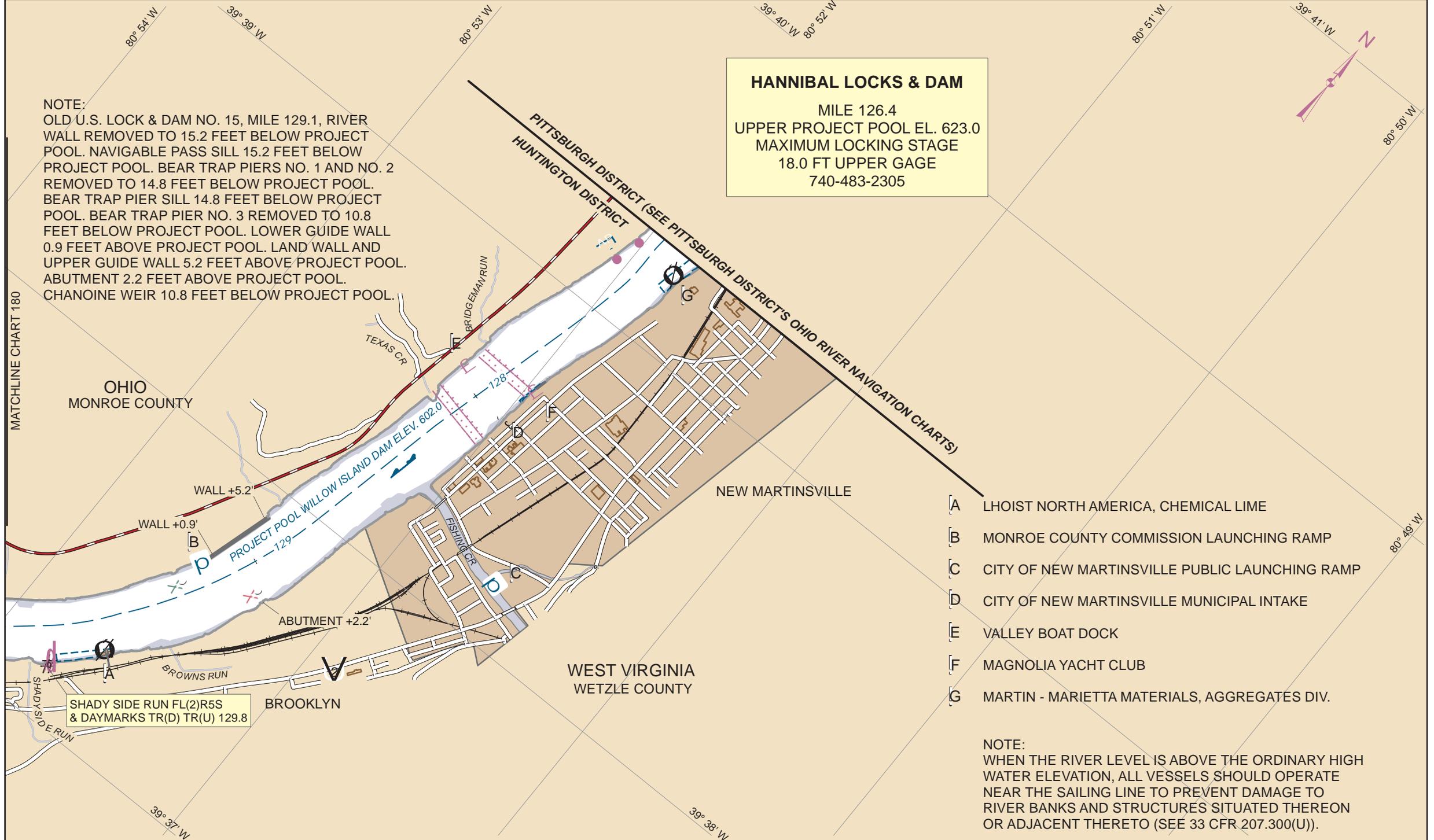
193.5	①	AERIAL POWER CROSSING	
		ELEVATION LOW POINT OF SAG	700.3'
		VERTICAL CLEARANCE AT POOL STAGE	96.3'
		VERTICAL CLEARANCE - 1913 H.W.	60.3'



- (A) PADEN CITY LAUNCHING RAMP
- (1) AERIAL POWER CROSSING

NOTE:
SEE OPPOSITE PAGE FOR CLEARANCE DATA
PERTAINING TO AERIAL CROSSINGS.

NOTE:
WHEN THE RIVER LEVEL IS ABOVE THE
ORDINARY HIGH WATER ELEVATION.
ALL VESSELS SHOULD OPERATE NEAR
THE SAILING LINE TO PREVENT DAMAGE
TO RIVER BANKS AND STRUCTURES
SITUATED THEREON OR ADJACENT
THERETO (SEE 33 CFR 207 .300(U)).



OHIO RIVER TRIBUTARY NAVIGATION CHARTS



BIG SANDY RIVER
MILE 0.0 - 9.4
OHIO RIVER MILE 317.2
PROJECT POOL GREENUP DAM ELEVATION 515.0

146A - 146D



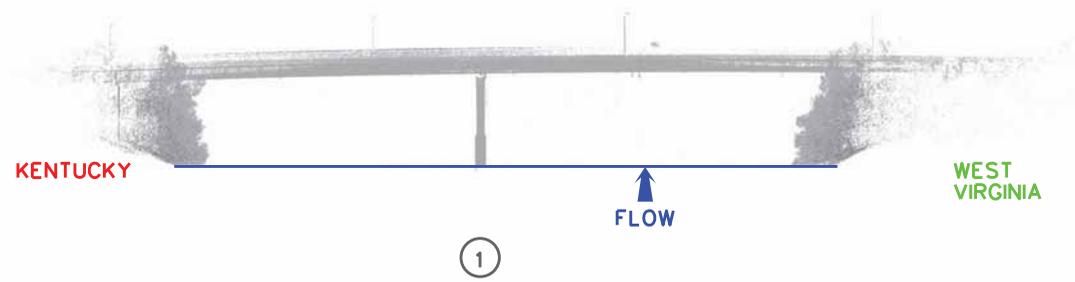
LITTLE KANAWHA RIVER
MILE 0.0 - 7.6
OHIO RIVER MILE 184.5
PROJECT POOL BELLEVILLE DAM ELEVATION 582.0

170A - 170C

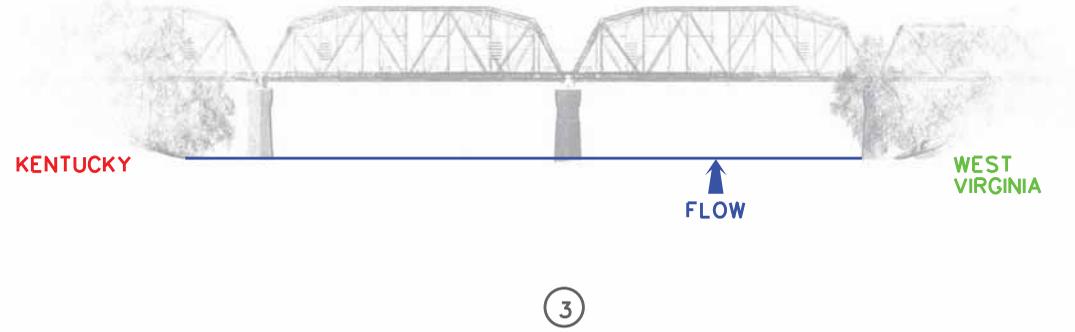


MUSKINGUM RIVER
MILE 0.0 - 5.9
OHIO RIVER MILE 172.3
PROJECT POOL BELLEVILLE DAM ELEVATION 582.0

172A - 172C



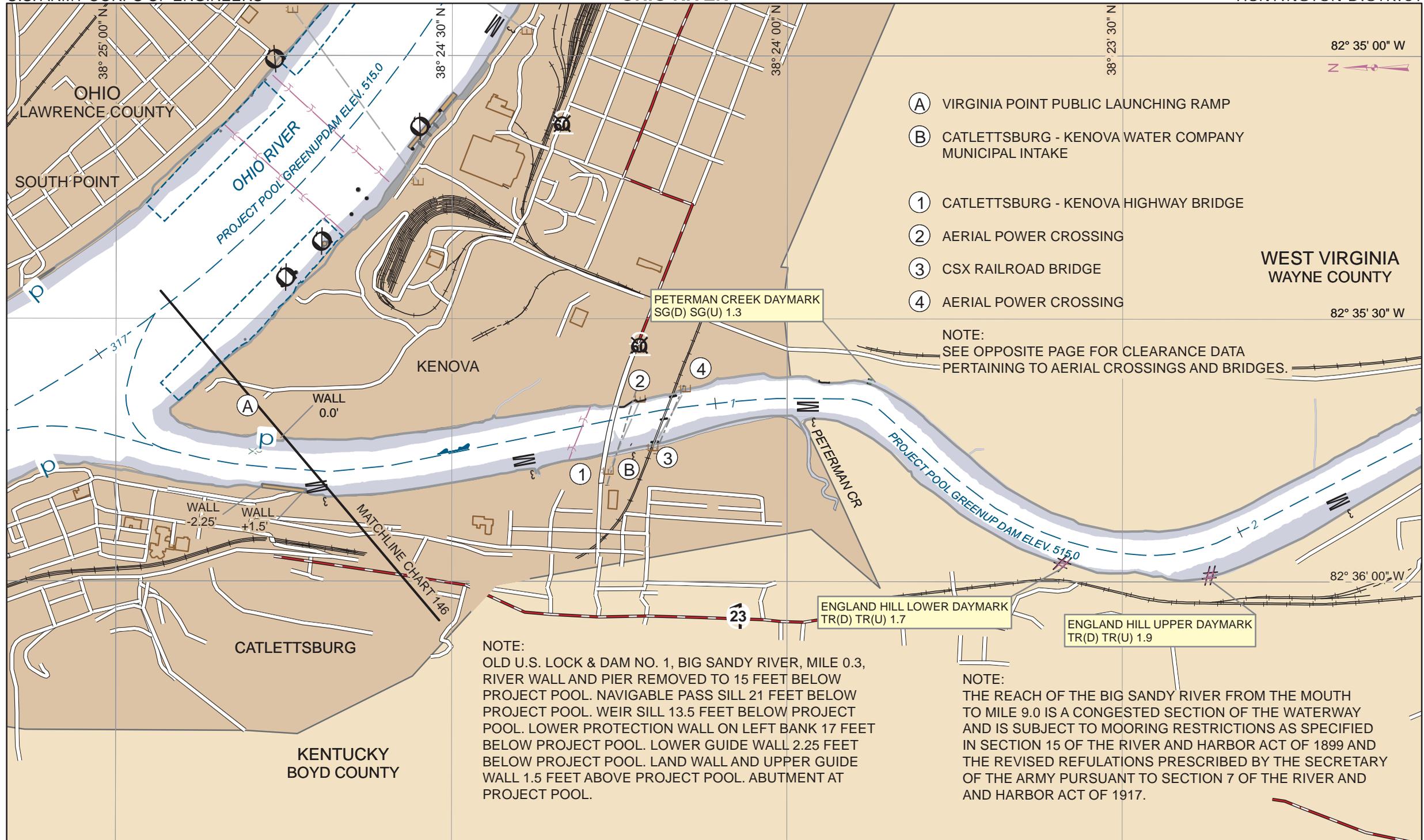
0.8 (1) CATLETTSBURG - KENOVA HIGHWAY BRIDGE
 CHANNEL SPAN
 ELEVATION OF LOW STEEL 578.0'
 VERTICAL CLEARANCE AT POOL STAGE 63.0'
 VERTICAL CLEARANCE - 1937 H.W. 13.7'
 HORIZONTAL CLEARANCE 200'



0.8 (2) AERIAL POWER CROSSING
 ELEVATION LOW POINT OF SAG 585.3'
 VERTICAL CLEARANCE AT POOL STAGE 70.3'
 VERTICAL CLEARANCE - 1937 H.W. 27.3'

0.9 (3) C&O RAILROAD BRIDGE
 CHANNEL SPAN
 ELEVATION OF LOW STEEL 564.6'
 VERTICAL CLEARANCE AT POOL STAGE 49.6'
 VERTICAL CLEARANCE - 1937 H.W. 6.6'
 HORIZONTAL CLEARANCE 178'

0.9 (4) AERIAL TELEPHONE CROSSING
 ELEVATION LOW POINT OF SAG 579.0'
 VERTICAL CLEARANCE AT POOL STAGE 64.0'
 VERTICAL CLEARANCE - 1937 H.W. 21.0'



- (A) VIRGINIA POINT PUBLIC LAUNCHING RAMP
- (B) CATLETTSBURG - KENOVA WATER COMPANY MUNICIPAL INTAKE
- (1) CATLETTSBURG - KENOVA HIGHWAY BRIDGE
- (2) AERIAL POWER CROSSING
- (3) CSX RAILROAD BRIDGE
- (4) AERIAL POWER CROSSING

NOTE:
SEE OPPOSITE PAGE FOR CLEARANCE DATA
PERTAINING TO AERIAL CROSSINGS AND BRIDGES.

NOTE:
OLD U.S. LOCK & DAM NO. 1, BIG SANDY RIVER, MILE 0.3,
RIVER WALL AND PIER REMOVED TO 15 FEET BELOW
PROJECT POOL. NAVIGABLE PASS SILL 21 FEET BELOW
PROJECT POOL. WEIR SILL 13.5 FEET BELOW PROJECT
POOL. LOWER PROTECTION WALL ON LEFT BANK 17 FEET
BELOW PROJECT POOL. LOWER GUIDE WALL 2.25 FEET
BELOW PROJECT POOL. LAND WALL AND UPPER GUIDE
WALL 1.5 FEET ABOVE PROJECT POOL. ABUTMENT AT
PROJECT POOL.

NOTE:
THE REACH OF THE BIG SANDY RIVER FROM THE MOUTH
TO MILE 9.0 IS A CONGESTED SECTION OF THE WATERWAY
AND IS SUBJECT TO MOORING RESTRICTIONS AS SPECIFIED
IN SECTION 15 OF THE RIVER AND HARBOR ACT OF 1899 AND
THE REVISED REFULATIONS PRESCRIBED BY THE SECRETARY
OF THE ARMY PURSUANT TO SECTION 7 OF THE RIVER AND
AND HARBOR ACT OF 1917.



KENTUCKY

↑
FLOW

WEST
VIRGINIA

①

2.6	① INTERSTATE 64 TWIN BRIDGES	
	CHANNEL SPAN	
	ELEVATION OF LOW STEEL	616.9'
	VERTICAL CLEARANCE AT POOL STAGE	101.9'
	VERTICAL CLEARANCE - 1937 H.W.	58.9'
	HORIZONTAL CLEARANCE	215'

3.4	② AERIAL POWER CROSSING	
	ELEVATION LOW POINT OF SAG	590.0'
	VERTICAL CLEARANCE AT POOL STAGE	75.0'
	VERTICAL CLEARANCE - 1937 H.W.	32.0'



KENTUCKY

↑
FLOW

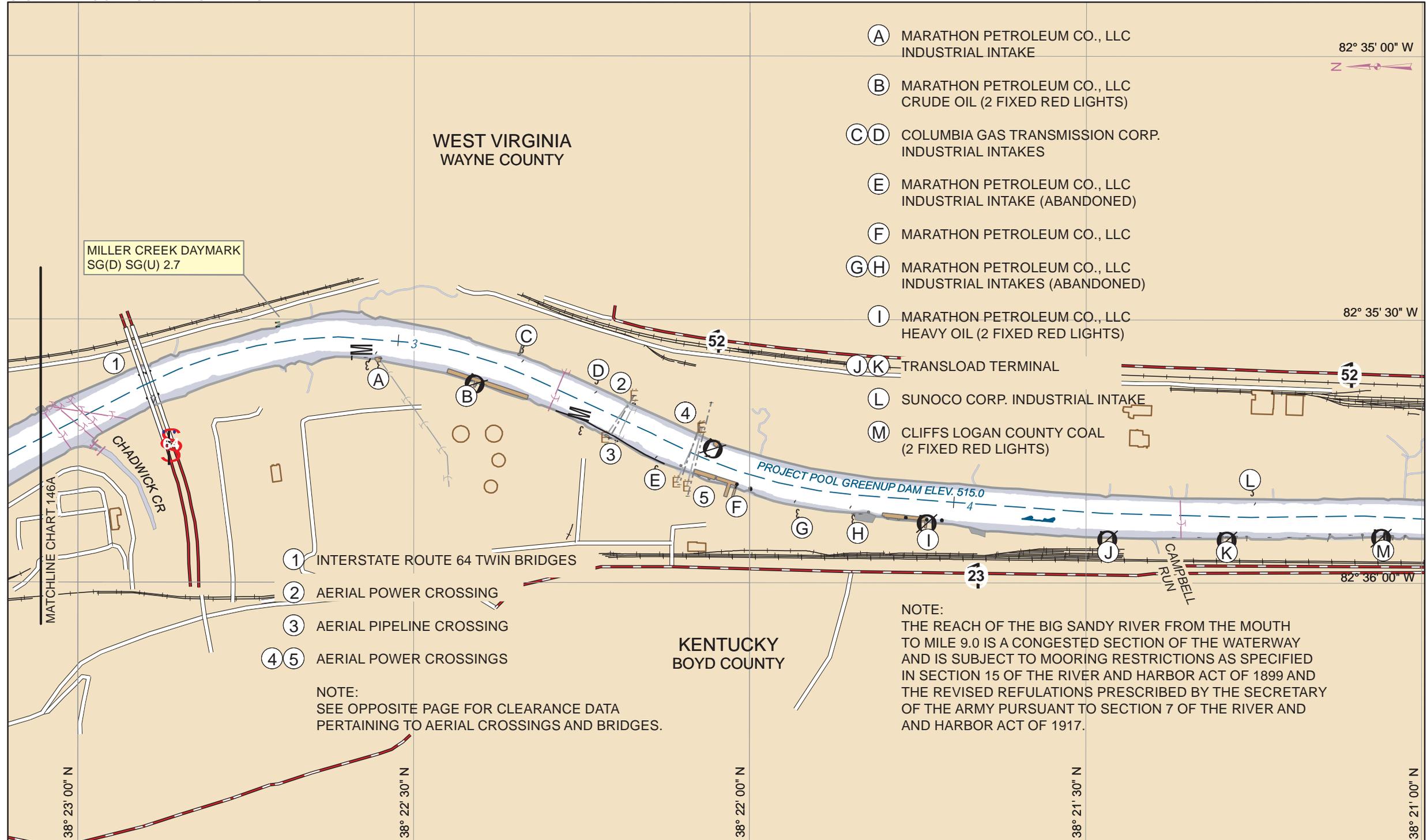
WEST
VIRGINIA

③

3.5	③ MARATHON / ASHLAND INC. PIPELINE BRIDGE	
	CHANNEL SPAN	
	ELEVATION OF LOW STEEL	566.9'
	VERTICAL CLEARANCE AT POOL STAGE	51.9'
	VERTICAL CLEARANCE - 1937 H.W.	9.4'
	HORIZONTAL CLEARANCE	388'

3.6	④ AERIAL POWER CROSSING	
	ELEVATION LOW POINT OF SAG	590.0'
	VERTICAL CLEARANCE AT POOL STAGE	75.0'
	VERTICAL CLEARANCE - 1937 H.W.	32.0'

3.6	④ AERIAL POWER CROSSING	
	ELEVATION LOW POINT OF SAG	586.0'
	VERTICAL CLEARANCE AT POOL STAGE	71.0'
	VERTICAL CLEARANCE - 1937 H.W.	28.0'



- (A) MARATHON PETROLEUM CO., LLC INDUSTRIAL INTAKE
- (B) MARATHON PETROLEUM CO., LLC CRUDE OIL (2 FIXED RED LIGHTS)
- (C) COLUMBIA GAS TRANSMISSION CORP. INDUSTRIAL INTAKES
- (D) COLUMBIA GAS TRANSMISSION CORP. INDUSTRIAL INTAKES
- (E) MARATHON PETROLEUM CO., LLC INDUSTRIAL INTAKE (ABANDONED)
- (F) MARATHON PETROLEUM CO., LLC
- (G) MARATHON PETROLEUM CO., LLC INDUSTRIAL INTAKES (ABANDONED)
- (H) MARATHON PETROLEUM CO., LLC INDUSTRIAL INTAKES (ABANDONED)
- (I) MARATHON PETROLEUM CO., LLC HEAVY OIL (2 FIXED RED LIGHTS)
- (J) TRANSLOAD TERMINAL
- (K) TRANSLOAD TERMINAL
- (L) SUNOCO CORP. INDUSTRIAL INTAKE
- (M) CLIFFS LOGAN COUNTY COAL (2 FIXED RED LIGHTS)

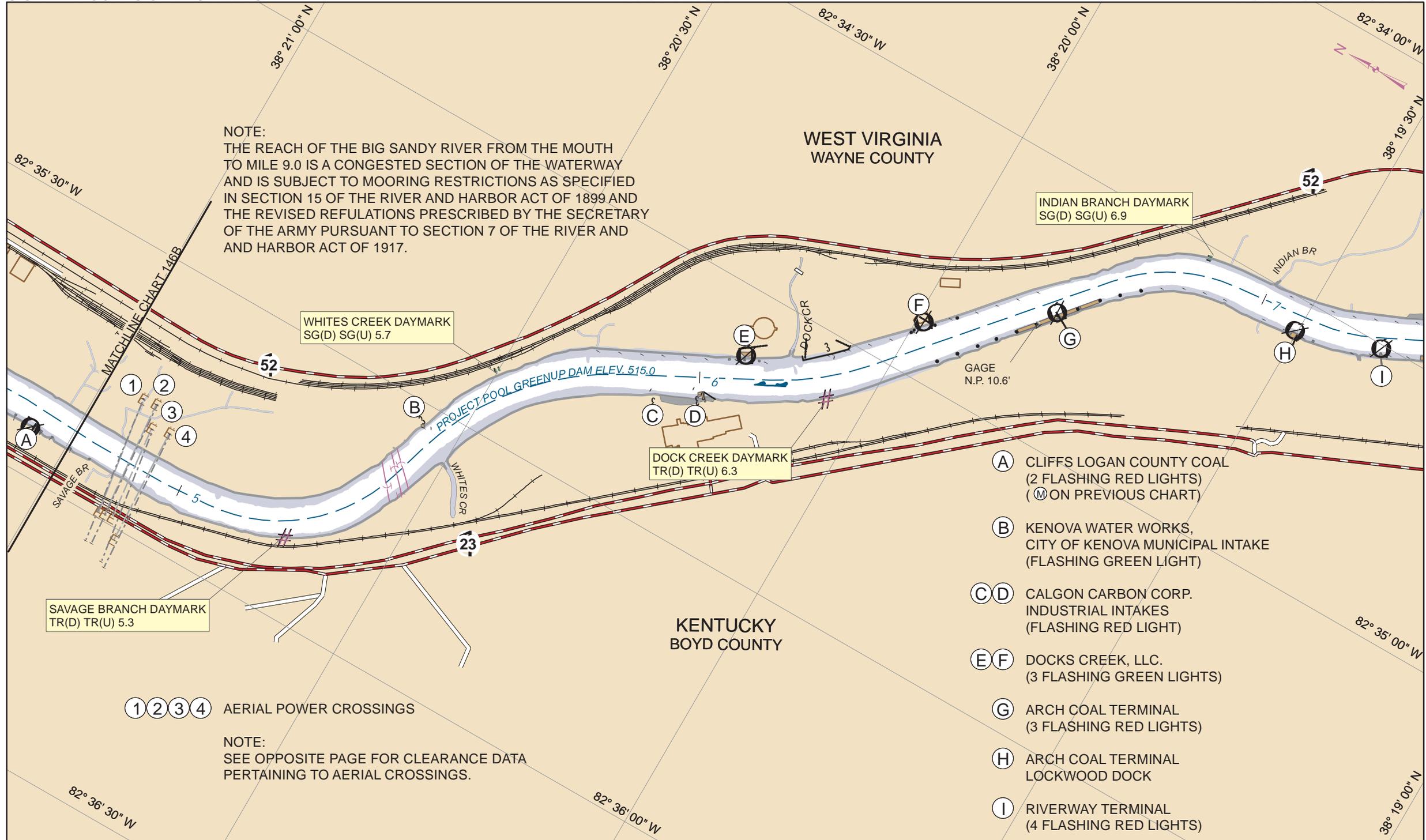
- (1) INTERSTATE ROUTE 64 TWIN BRIDGES
- (2) AERIAL POWER CROSSING
- (3) AERIAL PIPELINE CROSSING
- (4) AERIAL POWER CROSSINGS
- (5) AERIAL POWER CROSSINGS

NOTE:
SEE OPPOSITE PAGE FOR CLEARANCE DATA
PERTAINING TO AERIAL CROSSINGS AND BRIDGES.

NOTE:
THE REACH OF THE BIG SANDY RIVER FROM THE MOUTH TO MILE 9.0 IS A CONGESTED SECTION OF THE WATERWAY AND IS SUBJECT TO MOORING RESTRICTIONS AS SPECIFIED IN SECTION 15 OF THE RIVER AND HARBOR ACT OF 1899 AND THE REVISED REFULATIONS PRESCRIBED BY THE SECRETARY OF THE ARMY PURSUANT TO SECTION 7 OF THE RIVER AND HARBOR ACT OF 1917.

4.7	①	AERIAL POWER CROSSING	
		ELEVATION LOW POINT OF SAG	605.0'
		VERTICAL CLEARANCE AT POOL STAGE	90.0'
		VERTICAL CLEARANCE - 1937 H.W.	47.0'
4.8	②	AERIAL POWER CROSSING	
		ELEVATION LOW POINT OF SAG	650.0'
		VERTICAL CLEARANCE AT POOL STAGE	135.0'
		VERTICAL CLEARANCE - 1937 H.W.	92.0'
4.8	③	AERIAL POWER CROSSING	
		ELEVATION LOW POINT OF SAG	628.0'
		VERTICAL CLEARANCE AT POOL STAGE	113.0'
		VERTICAL CLEARANCE - 1937 H.W.	70.0'
4.9	④	AERIAL POWER CROSSING	
		ELEVATION LOW POINT OF SAG	634.0'
		VERTICAL CLEARANCE AT POOL STAGE	119.0'
		VERTICAL CLEARANCE - 1937 H.W.	76.0'

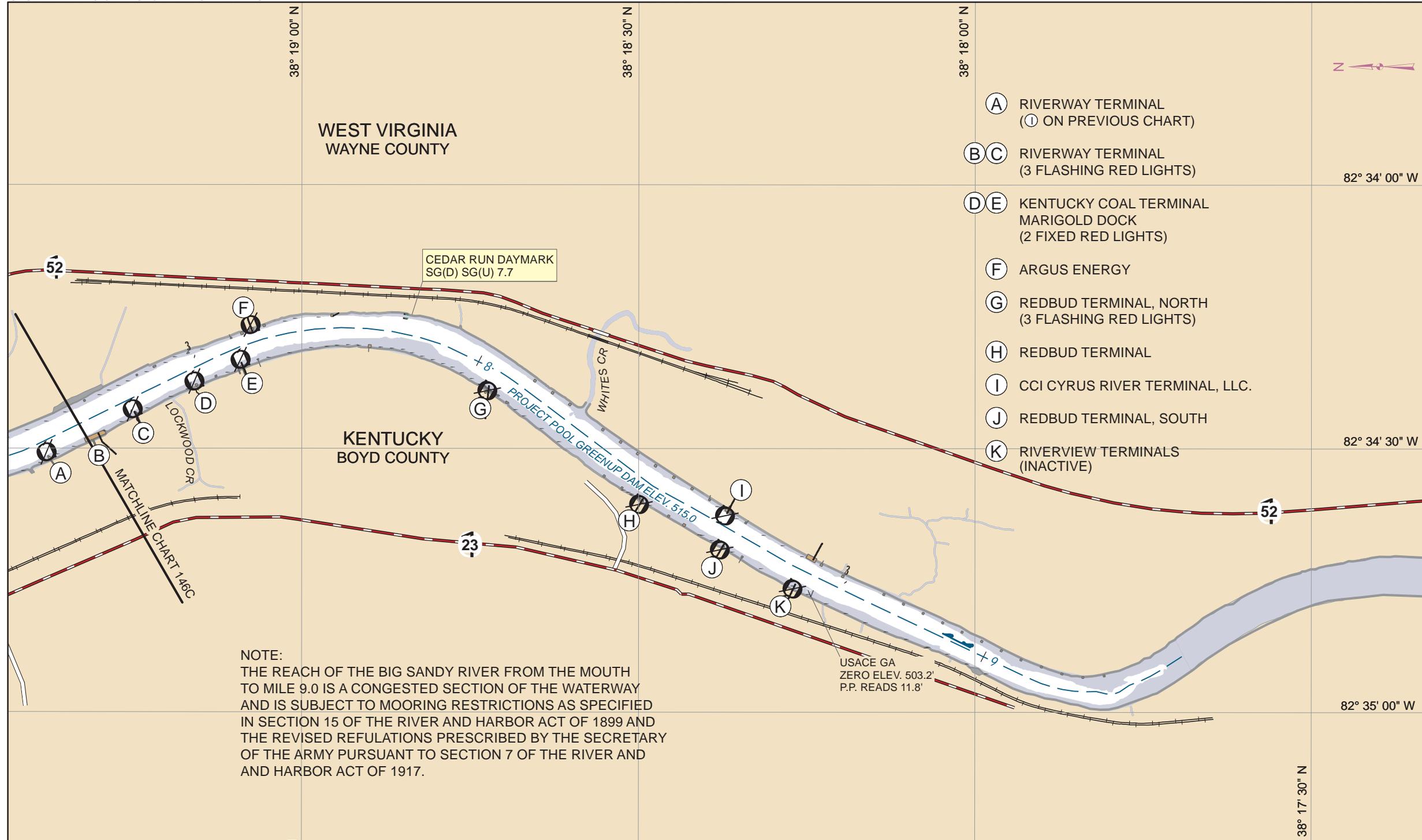
NOTE:
 THE REACH OF THE BIG SANDY RIVER FROM THE MOUTH TO MILE 9.0 IS A CONGESTED SECTION OF THE WATERWAY AND IS SUBJECT TO MOORING RESTRICTIONS AS SPECIFIED IN SECTION 15 OF THE RIVER AND HARBOR ACT OF 1899 AND THE REVISED REFULATIONS PRESCRIBED BY THE SECRETARY OF THE ARMY PURSUANT TO SECTION 7 OF THE RIVER AND HARBOR ACT OF 1917.

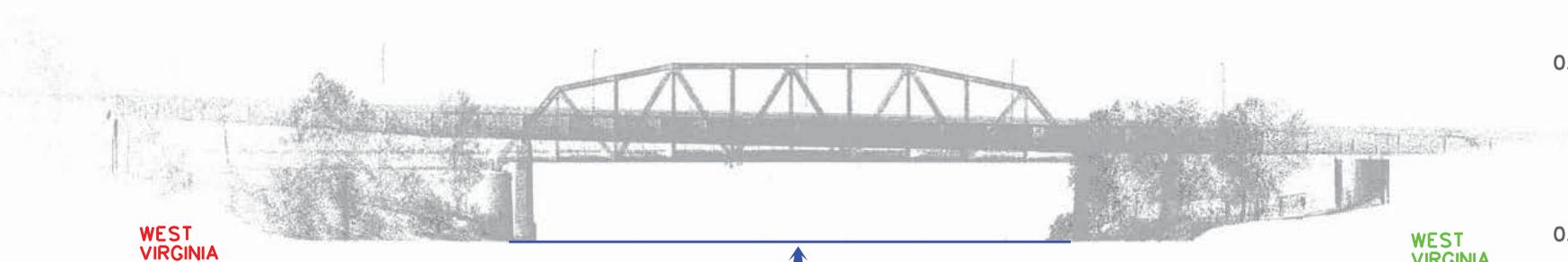


- A** CLIFFS LOGAN COUNTY COAL (2 FLASHING RED LIGHTS) (M ON PREVIOUS CHART)
- B** KENOVA WATER WORKS, CITY OF KENOVA MUNICIPAL INTAKE (FLASHING GREEN LIGHT)
- C D** CALGON CARBON CORP. INDUSTRIAL INTAKES (FLASHING RED LIGHT)
- E F** DOCKS CREEK, LLC. (3 FLASHING GREEN LIGHTS)
- G** ARCH COAL TERMINAL (3 FLASHING RED LIGHTS)
- H** ARCH COAL TERMINAL LOCKWOOD DOCK
- I** RIVERWAY TERMINAL (4 FLASHING RED LIGHTS)

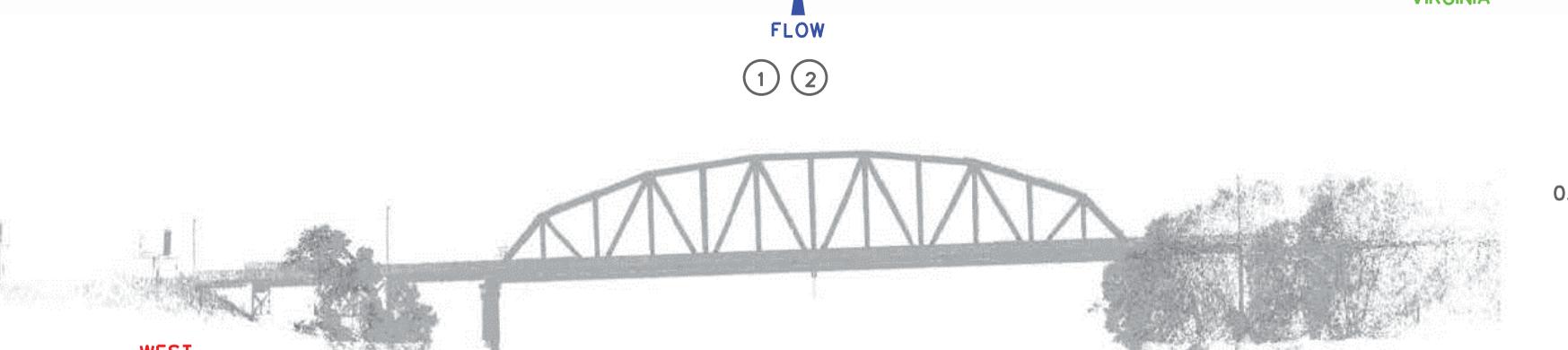
1 2 3 4 AERIAL POWER CROSSINGS

NOTE:
 SEE OPPOSITE PAGE FOR CLEARANCE DATA PERTAINING TO AERIAL CROSSINGS.

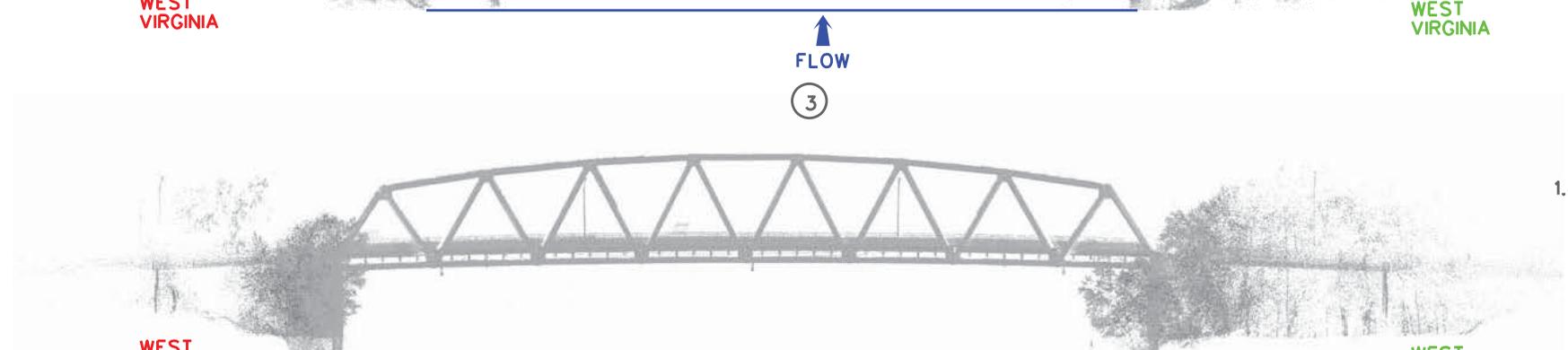




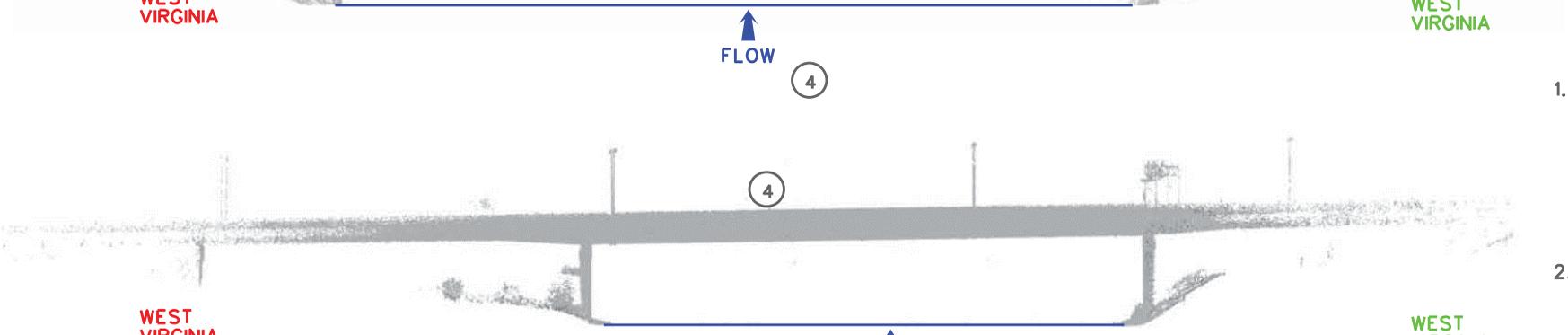
0.1	<p>① B&O RAILROAD BRIDGE</p> <p>CHANNEL SPAN</p> <p>ELEVATION OF LOW STEEL 622.2'</p> <p>VERTICAL CLEARANCE AT POOL STAGE 40.2'</p> <p>VERTICAL CLEARANCE - 1913 H.W. 1.3'</p> <p>HORIZONTAL CLEARANCE 285'</p>
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0.1	<p>② JULIANA STREET HIGHWAY BRIDGE</p> <p>CHANNEL SPAN</p> <p>ELEVATION OF LOW STEEL 626.9'</p> <p>VERTICAL CLEARANCE AT POOL STAGE 44.9'</p> <p>VERTICAL CLEARANCE - 1913 H.W. 6.0'</p> <p>HORIZONTAL CLEARANCE 300'</p>
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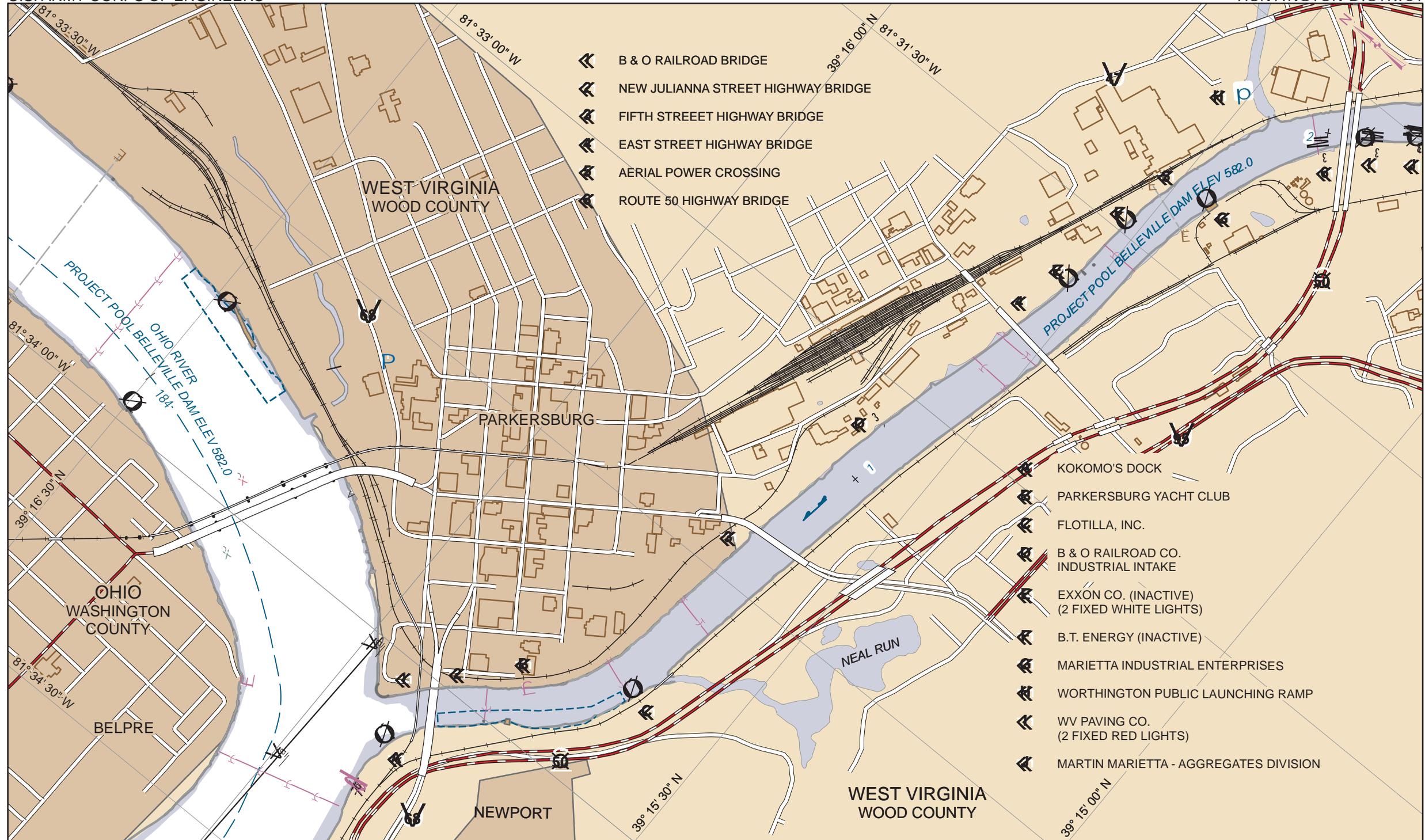
0.8	<p>③ FIFTH STREET HIGHWAY BRIDGE</p> <p>CHANNEL SPAN</p> <p>ELEVATION OF LOW STEEL 623.1'</p> <p>VERTICAL CLEARANCE AT POOL STAGE 41.1'</p> <p>VERTICAL CLEARANCE - 1913 H.W. 2.2'</p> <p>HORIZONTAL CLEARANCE 310'</p>
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1.4	<p>④ EAST STREET HIGHWAY BRIDGE</p> <p>CHANNEL SPAN</p> <p>ELEVATION OF LOW STEEL 624.8'</p> <p>VERTICAL CLEARANCE AT POOL STAGE 42.8'</p> <p>VERTICAL CLEARANCE - 1913 H.W. 3.9'</p> <p>HORIZONTAL CLEARANCE 280'</p>
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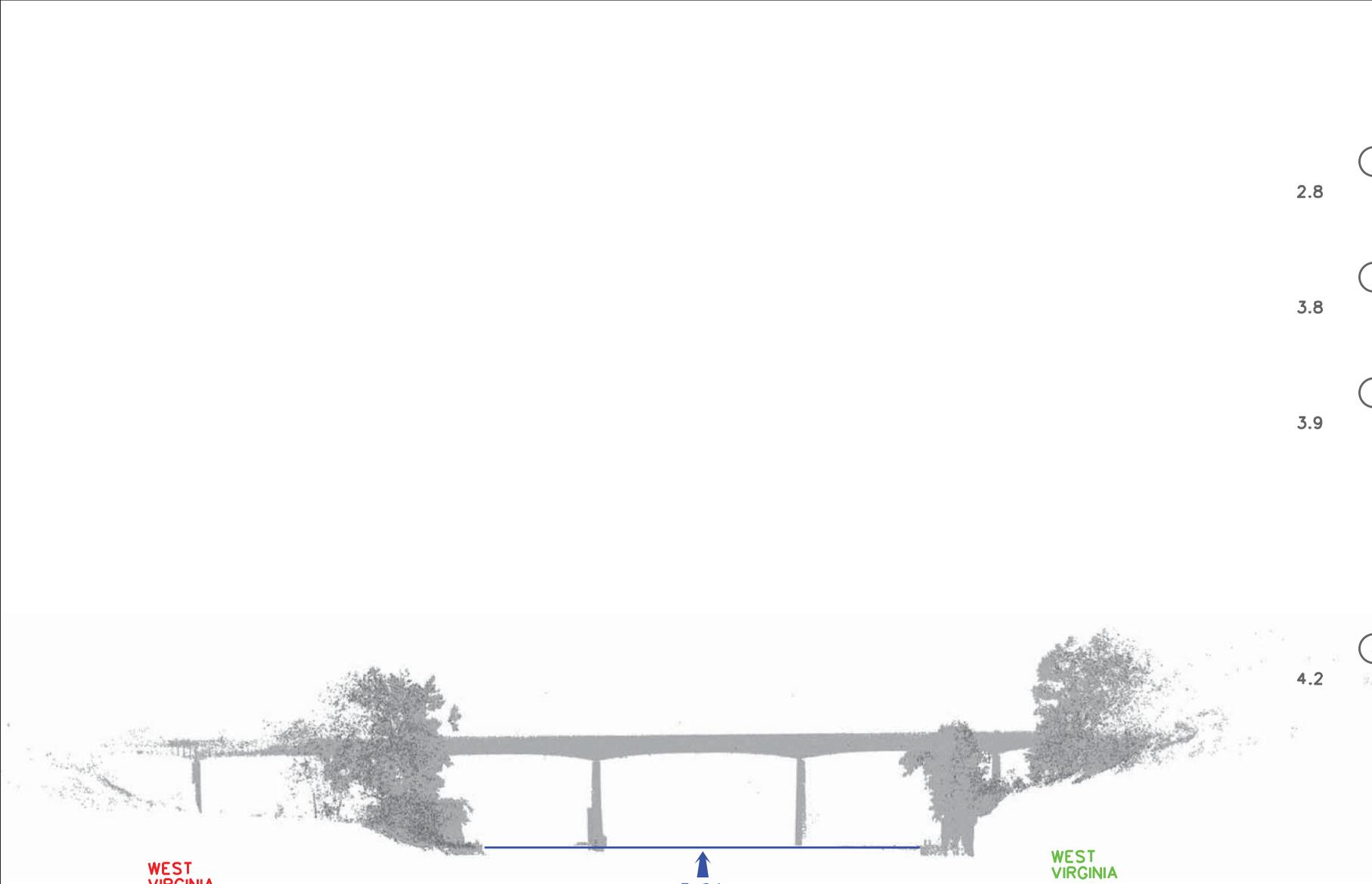


1.7	<p>⑤ AERIAL POWER CROSSING</p> <p>ELEVATION LOW POINT OF SAG 652.2'</p> <p>VERTICAL CLEARANCE AT POOL STAGE 70.2'</p> <p>VERTICAL CLEARANCE - 1913 H.W. 31.3'</p>
2.0	<p>⑥ ROUTE 50 HIGHWAY BRIDGE</p> <p>CHANNEL SPAN</p> <p>ELEVATION OF LOW STEEL 630.1'</p> <p>VERTICAL CLEARANCE AT POOL STAGE 48.1'</p> <p>VERTICAL CLEARANCE - 1913 H.W. 9.2'</p> <p>HORIZONTAL CLEARANCE 344'</p>



- ◀ B & O RAILROAD BRIDGE
- ◀ NEW JULIANNA STREET HIGHWAY BRIDGE
- ◀ FIFTH STREET HIGHWAY BRIDGE
- ◀ EAST STREET HIGHWAY BRIDGE
- ◀ AERIAL POWER CROSSING
- ◀ ROUTE 50 HIGHWAY BRIDGE

- ◀ KOKOMO'S DOCK
- ◀ PARKERSBURG YACHT CLUB
- ◀ FLOTILLA, INC.
- ◀ B & O RAILROAD CO. INDUSTRIAL INTAKE
- ◀ EXXON CO. (INACTIVE) (2 FIXED WHITE LIGHTS)
- ◀ B.T. ENERGY (INACTIVE)
- ◀ MARIETTA INDUSTRIAL ENTERPRISES
- ◀ WORTHINGTON PUBLIC LAUNCHING RAMP
- ◀ WV PAVING CO. (2 FIXED RED LIGHTS)
- ◀ MARTIN MARIETTA - AGGREGATES DIVISION



WEST
VIRGINIA

↑
FLOW

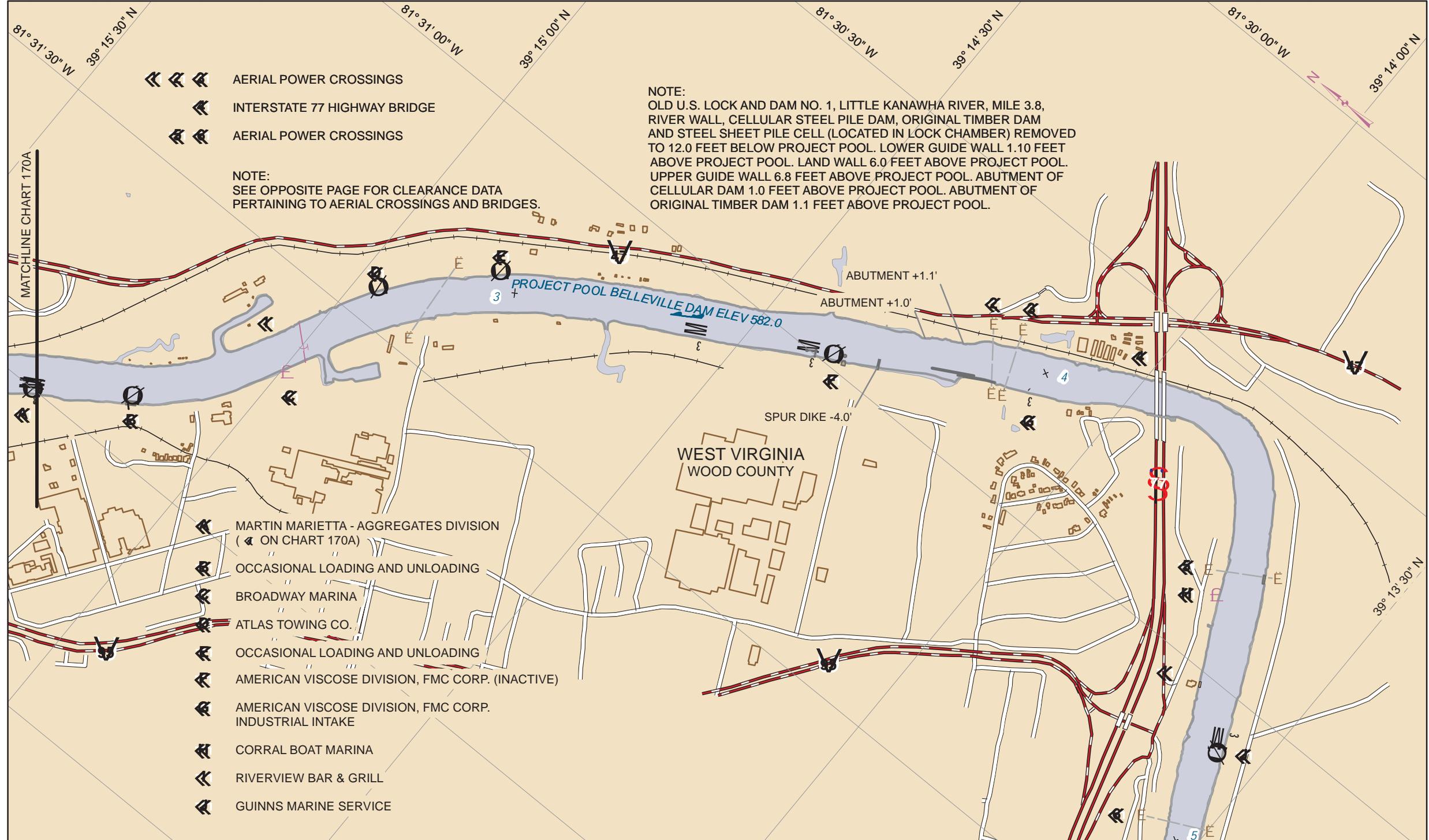
WEST
VIRGINIA

2.8	①	AERIAL POWER CROSSING	ELEVATION LOW POINT OF SAG VERTICAL CLEARANCE AT POOL STAGE VERTICAL CLEARANCE - 1913 H.W.	643.9' 61.9' 23.0'
3.8	②	AERIAL POWER CROSSING	ELEVATION LOW POINT OF SAG VERTICAL CLEARANCE AT POOL STAGE VERTICAL CLEARANCE - 1913 H.W.	644.0' 62.0' 23.1'
3.9	③	AERIAL POWER CROSSING	ELEVATION LOW POINT OF SAG VERTICAL CLEARANCE AT POOL STAGE VERTICAL CLEARANCE - 1913 H.W.	640.5' 58.5' 19.5'
4.2	④	INTERSTATE 77 HIGHWAY BRIDGE CHANNEL SPAN	ELEVATION OF LOW STEEL VERTICAL CLEARANCE AT POOL STAGE VERTICAL CLEARANCE - 1913 HIGH WATER HORIZONTAL CLEARANCE	634.7' 52.7' 10.2' 106.0'
4.5	⑤	AERIAL POWER CROSSING	ELEVATION LOW POINT OF SAG VERTICAL CLEARANCE AT POOL STAGE VERTICAL CLEARANCE - 1913 H.W.	637.0' 50.0' 11.0'
4.9	⑥	AERIAL POWER CROSSING	ELEVATION LOW POINT OF SAG VERTICAL CLEARANCE AT POOL STAGE VERTICAL CLEARANCE - 1913 H.W.	620.8' 38.8' 0.2'

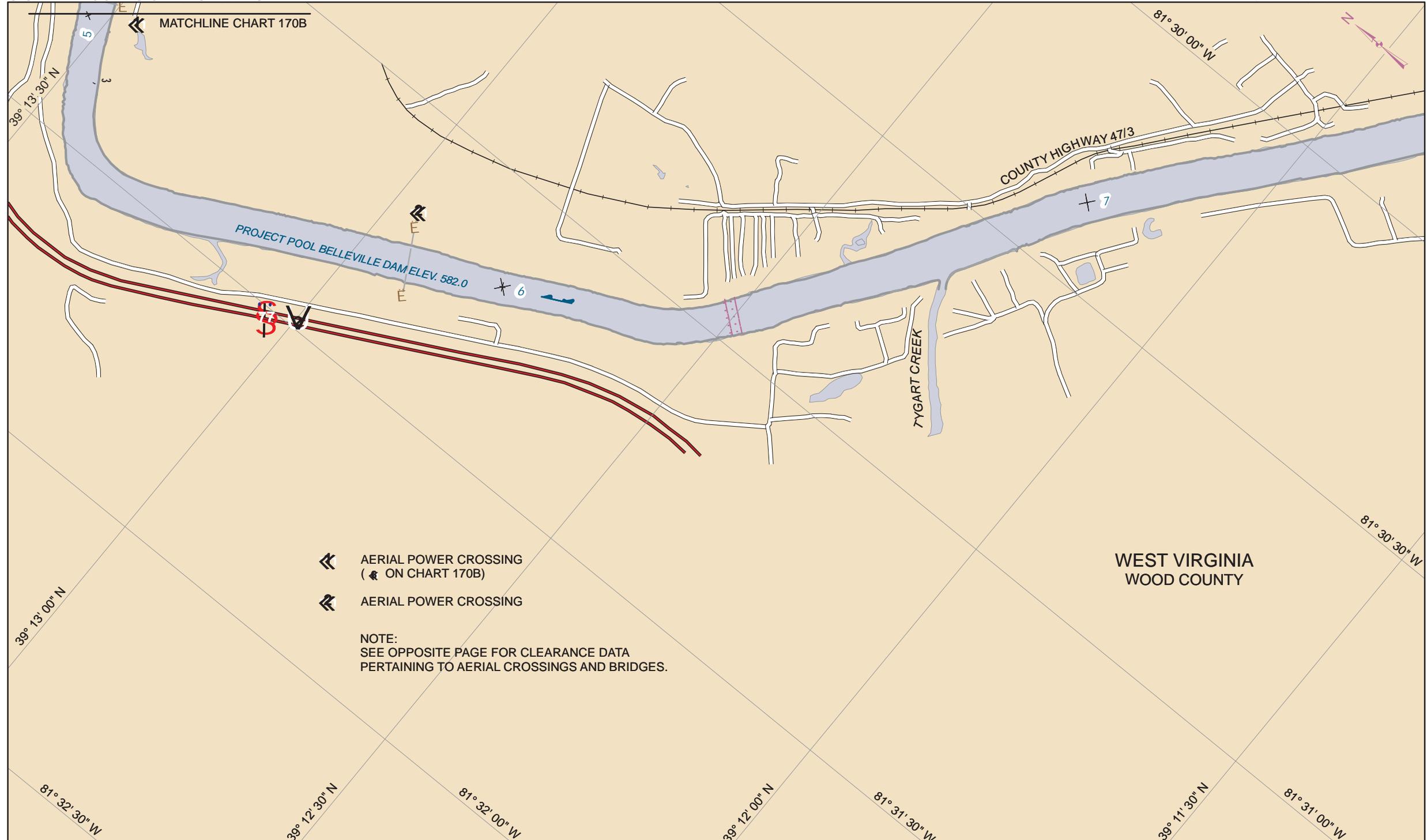
④

⑤

⑥



	①	AERIAL POWER CROSSING	
4.9		ELEVATION LOW POINT OF SAG	620.8'
		VERTICAL CLEARANCE AT POOL STAGE	38.8'
		VERTICAL CLEARANCE - 1913 H.W.	0.2'
	②	AERIAL POWER CROSSING	
5.9		ELEVATION LOW POINT OF SAG	627.7'
		VERTICAL CLEARANCE AT POOL STAGE	45.7'
		VERTICAL CLEARANCE - 1913 H.W.	6.7'

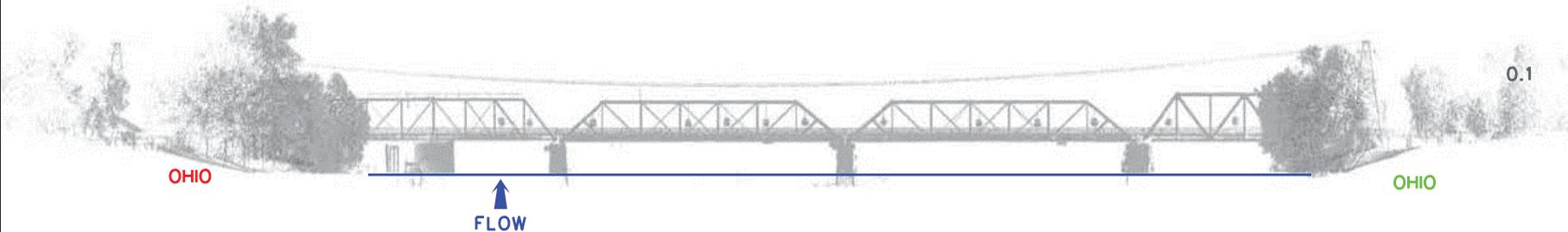


↔ AERIAL POWER CROSSING
(↔ ON CHART 170B)

↔ AERIAL POWER CROSSING

NOTE:
SEE OPPOSITE PAGE FOR CLEARANCE DATA
PERTAINING TO AERIAL CROSSINGS AND BRIDGES.

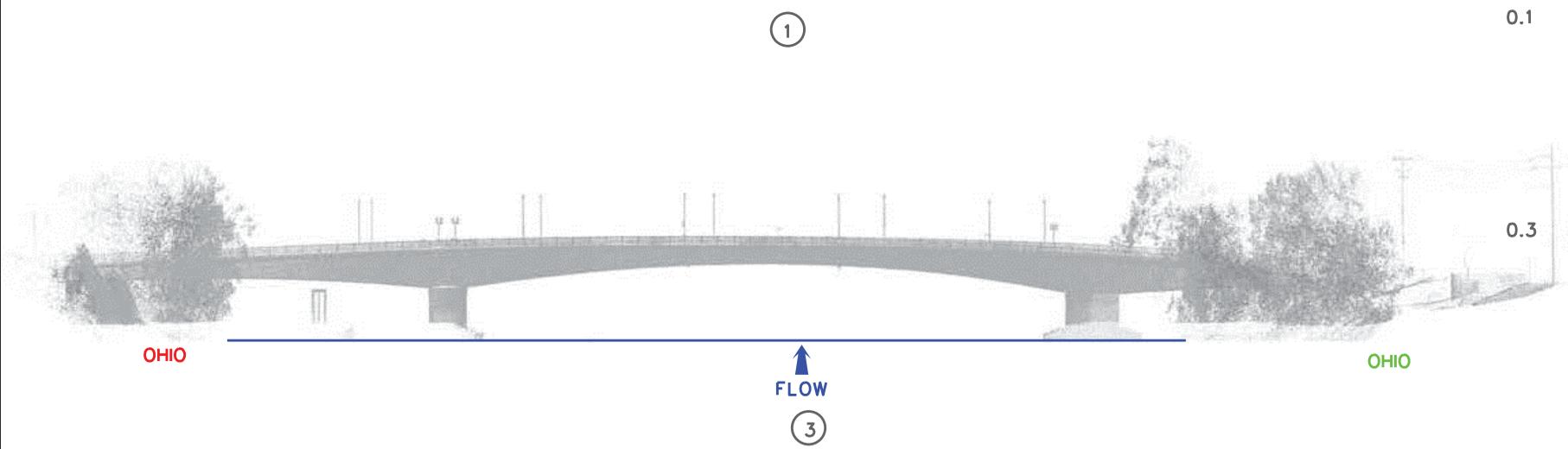
WEST VIRGINIA
WOOD COUNTY



①
0.1

BUTLER STREET RAILROAD BRIDGE
CHANNEL SPAN

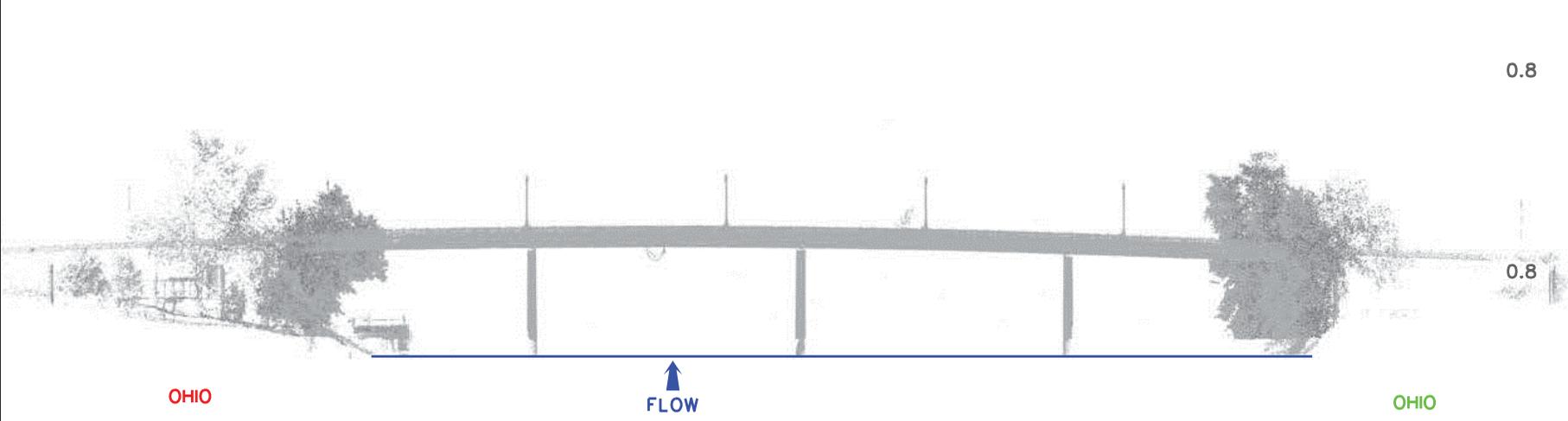
ELEVATION OF LOW STEEL 612.5'
VERTICAL CLEARANCE AT POOL STAGE 29.3'
VERTICAL CLEARANCE - 1913 H.W. 15.2'
HORIZONTAL CLEARANCE 70.0'



②
0.1

AERIAL POWER CROSSING

ELEVATION LOW POINT OF SAG 647.0'
VERTICAL CLEARANCE AT POOL STAGE 65.0'
VERTICAL CLEARANCE - 1913 H.W. 20.1'



③
0.3

PUTNAM STREET HIGHWAY BRIDGE
CHANNEL SPAN

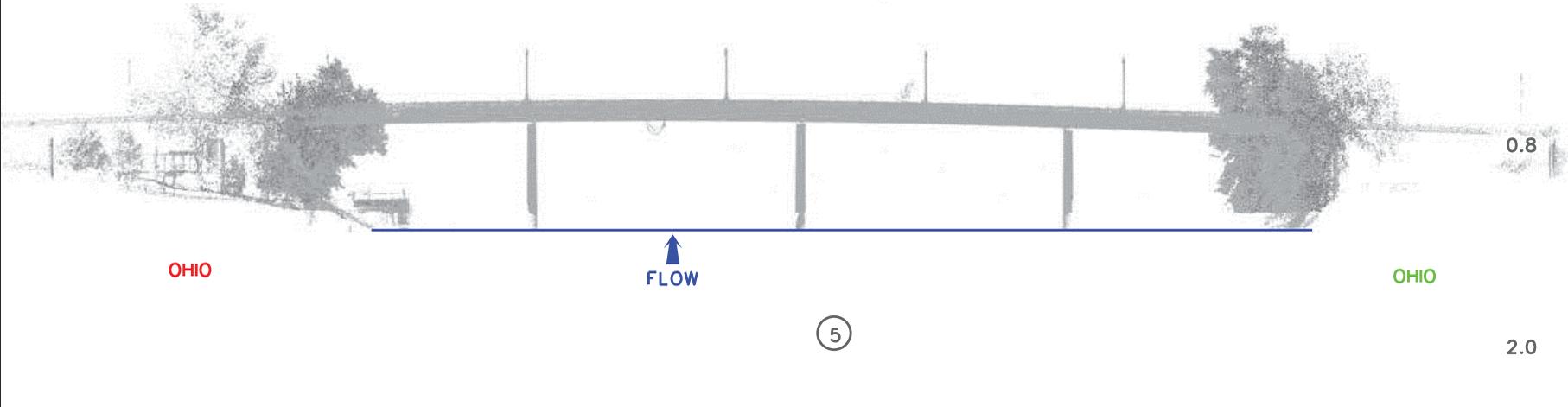
ELEVATION OF LOW STEEL 617.8'
VERTICAL CLEARANCE AT POOL STAGE 34.6'
VERTICAL CLEARANCE - 1913 H.W. 3.3'
HORIZONTAL CLEARANCE 98'



④
0.8

AERIAL POWER CROSSING

ELEVATION LOW POINT OF SAG 637.0'
VERTICAL CLEARANCE AT POOL STAGE 55.0'
VERTICAL CLEARANCE - 1913 H.W. 10.0'



⑤
0.8

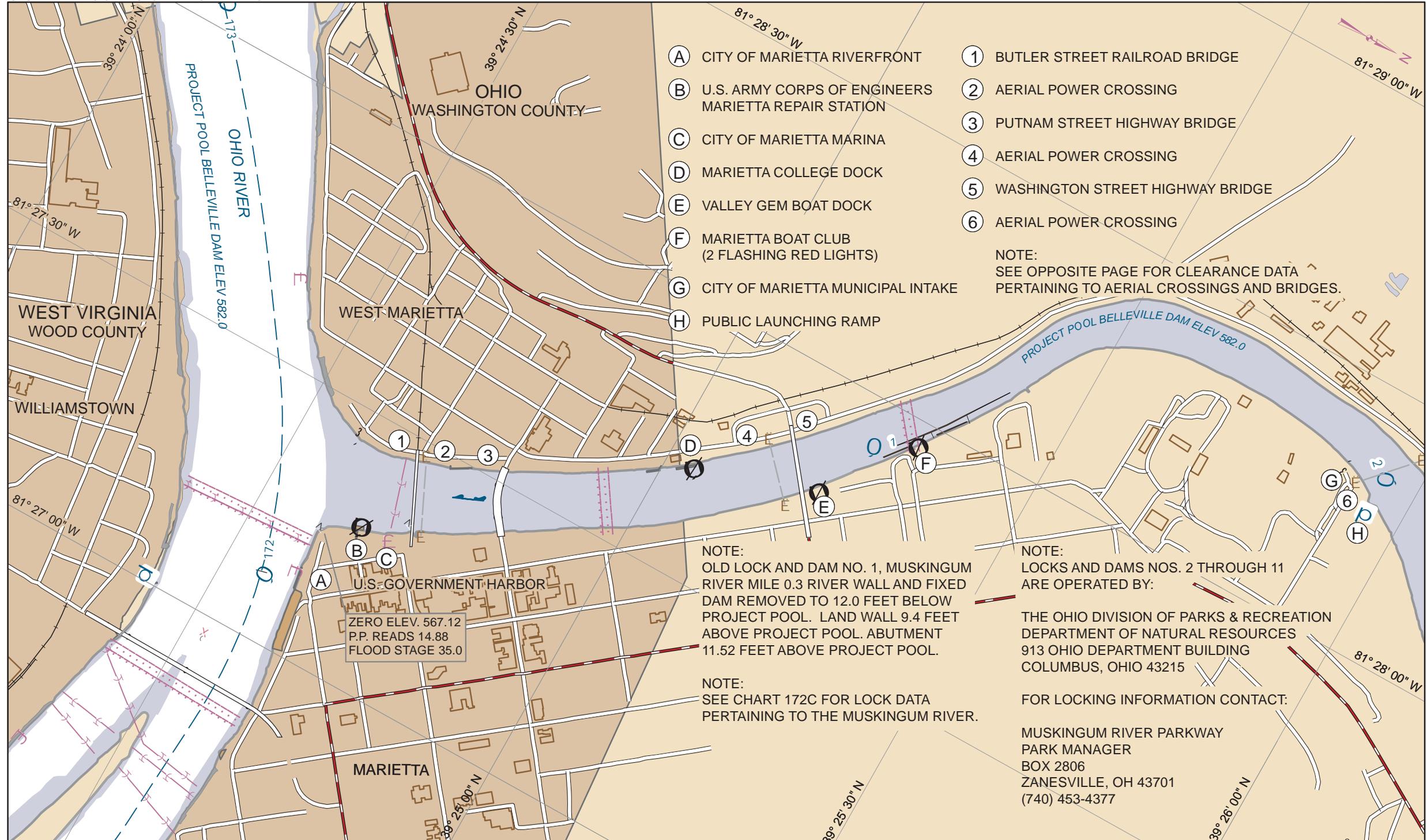
WASHINGTON STREET HIGHWAY BRIDGE
CHANNEL SPAN

ELEVATION OF LOW STEEL 636.5'
VERTICAL CLEARANCE AT POOL STAGE 53.3'
VERTICAL CLEARANCE - 1913 H.W. 8.3'
HORIZONTAL CLEARANCE 130'

⑥
2.0

AERIAL POWER CROSSING

ELEVATION LOW POINT OF SAG 637.5'
VERTICAL CLEARANCE AT POOL STAGE 55.5'
VERTICAL CLEARANCE - 1913 H.W. 10.0'



- (A) CITY OF MARIETTA RIVERFRONT
- (B) U.S. ARMY CORPS OF ENGINEERS MARIETTA REPAIR STATION
- (C) CITY OF MARIETTA MARINA
- (D) MARIETTA COLLEGE DOCK
- (E) VALLEY GEM BOAT DOCK
- (F) MARIETTA BOAT CLUB (2 FLASHING RED LIGHTS)
- (G) CITY OF MARIETTA MUNICIPAL INTAKE
- (H) PUBLIC LAUNCHING RAMP

- (1) BUTLER STREET RAILROAD BRIDGE
- (2) AERIAL POWER CROSSING
- (3) PUTNAM STREET HIGHWAY BRIDGE
- (4) AERIAL POWER CROSSING
- (5) WASHINGTON STREET HIGHWAY BRIDGE
- (6) AERIAL POWER CROSSING

NOTE:
SEE OPPOSITE PAGE FOR CLEARANCE DATA
PERTAINING TO AERIAL CROSSINGS AND BRIDGES.

ZERO ELEV. 567.12
P.P. READS 14.88
FLOOD STAGE 35.0

NOTE:
OLD LOCK AND DAM NO. 1, MUSKINGUM RIVER MILE 0.3 RIVER WALL AND FIXED DAM REMOVED TO 12.0 FEET BELOW PROJECT POOL. LAND WALL 9.4 FEET ABOVE PROJECT POOL. ABUTMENT 11.52 FEET ABOVE PROJECT POOL.

NOTE:
SEE CHART 172C FOR LOCK DATA
PERTAINING TO THE MUSKINGUM RIVER.

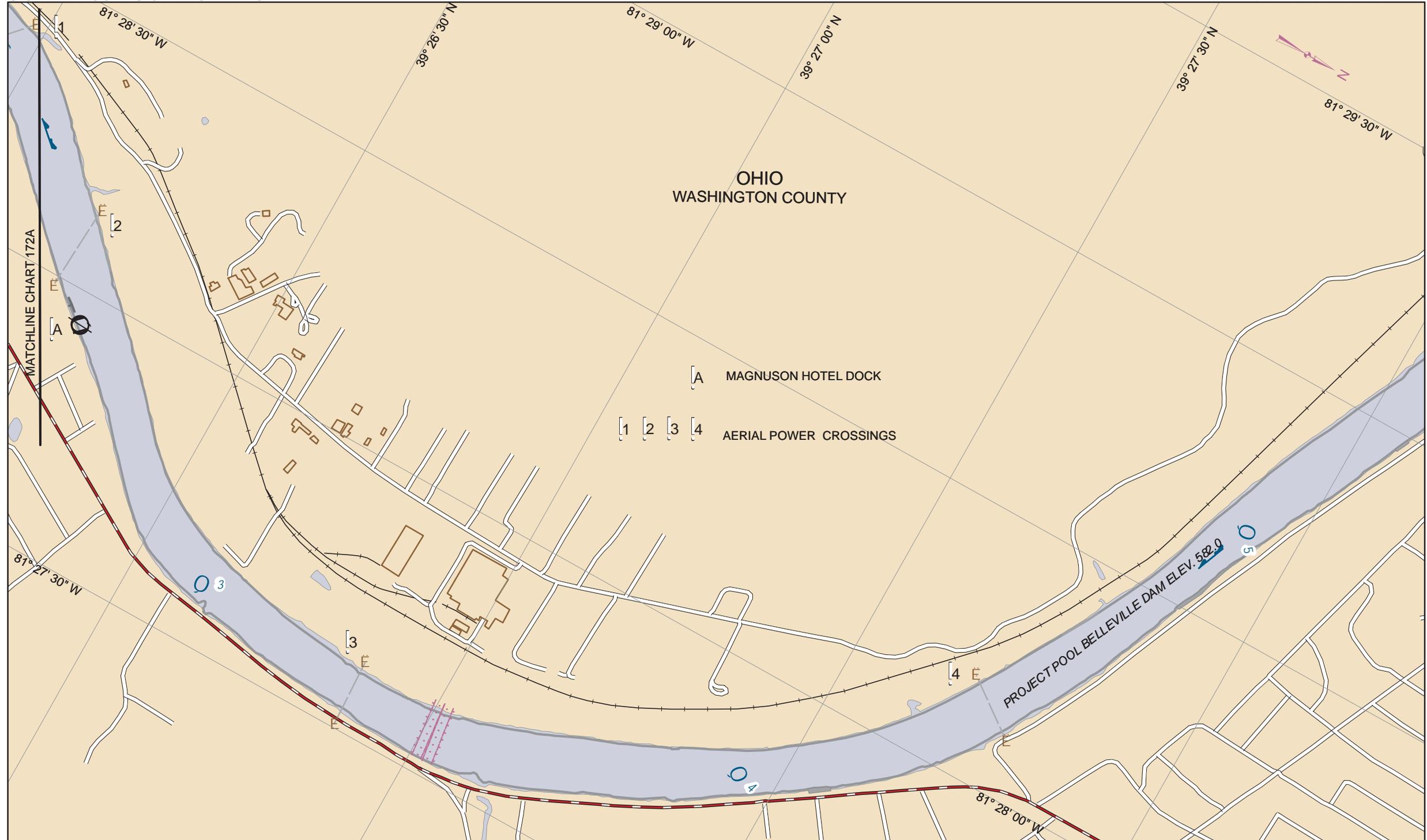
NOTE:
LOCKS AND DAMS NOS. 2 THROUGH 11
ARE OPERATED BY:

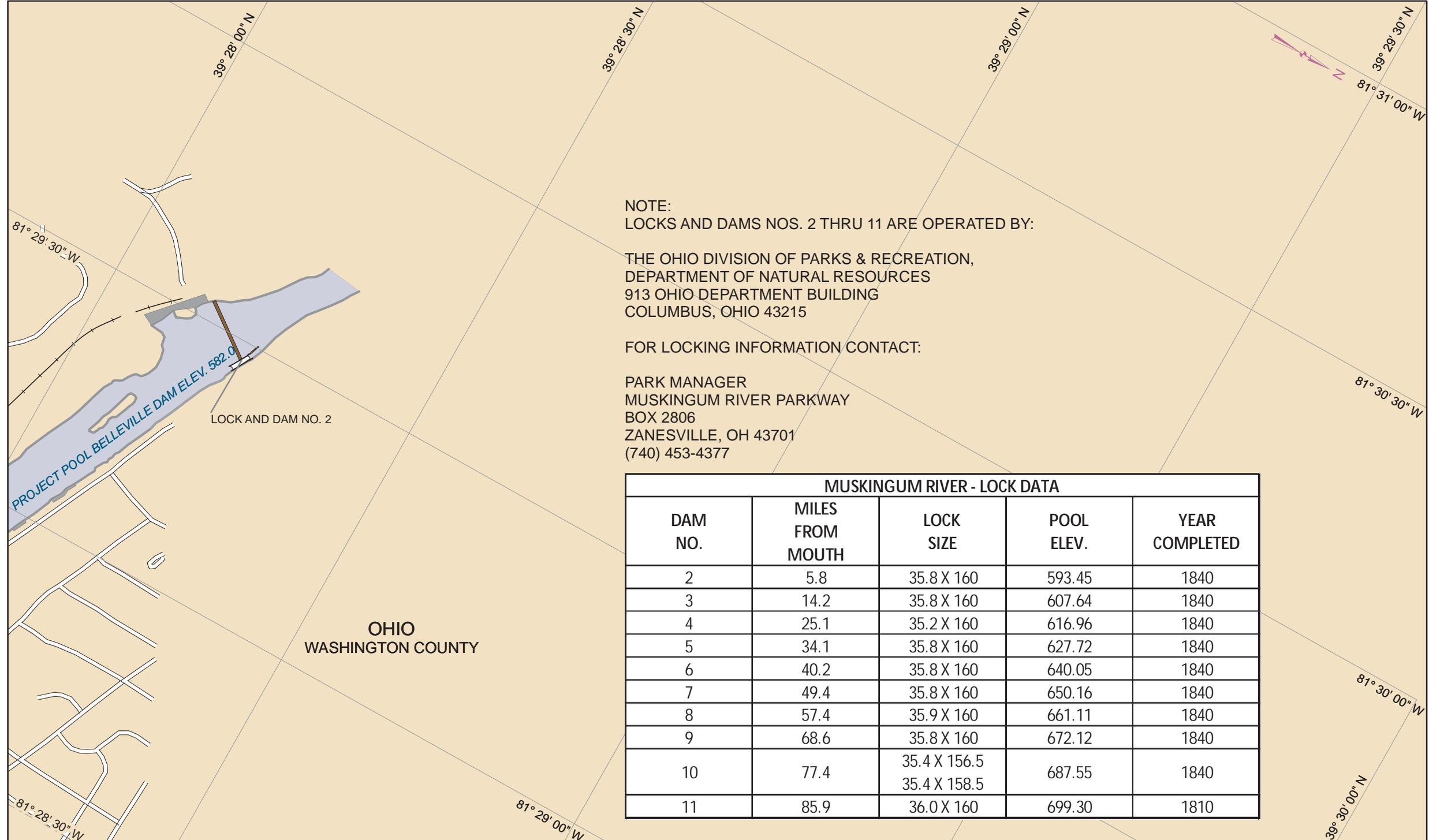
THE OHIO DIVISION OF PARKS & RECREATION
DEPARTMENT OF NATURAL RESOURCES
913 OHIO DEPARTMENT BUILDING
COLUMBUS, OHIO 43215

FOR LOCKING INFORMATION CONTACT:

MUSKINGUM RIVER PARKWAY
PARK MANAGER
BOX 2806
ZANESVILLE, OH 43701
(740) 453-4377

	①	AERIAL POWER CROSSING	
2.0		ELEVATION LOW POINT OF SAG	637.5'
		VERTICAL CLEARANCE AT POOL STAGE	55.5'
		VERTICAL CLEARANCE - 1913 H.W.	10.0'
	②	AERIAL POWER CROSSING	
2.4		ELEVATION LOW POINT OF SAG	640.2'
		VERTICAL CLEARANCE AT POOL STAGE	58.2'
		VERTICAL CLEARANCE - 1913 H.W.	12.6'
	③	AERIAL POWER CROSSING	
3.4		ELEVATION LOW POINT OF SAG	648.0'
		VERTICAL CLEARANCE AT POOL STAGE	66.0'
		VERTICAL CLEARANCE - 1913 H.W.	20.5'
	④	AERIAL POWER CROSSING	
4.5		ELEVATION LOW POINT OF SAG	663.0'
		VERTICAL CLEARANCE AT POOL STAGE	81.0'
		VERTICAL CLEARANCE - 1913 H.W.	34.5'





NOTE:
LOCKS AND DAMS NOS. 2 THRU 11 ARE OPERATED BY:

THE OHIO DIVISION OF PARKS & RECREATION,
DEPARTMENT OF NATURAL RESOURCES
913 OHIO DEPARTMENT BUILDING
COLUMBUS, OHIO 43215

FOR LOCKING INFORMATION CONTACT:

PARK MANAGER
MUSKINGUM RIVER PARKWAY
BOX 2806
ZANESVILLE, OH 43701
(740) 453-4377

MUSKINGUM RIVER - LOCK DATA

DAM NO.	MILES FROM MOUTH	LOCK SIZE	POOL ELEV.	YEAR COMPLETED
2	5.8	35.8 X 160	593.45	1840
3	14.2	35.8 X 160	607.64	1840
4	25.1	35.2 X 160	616.96	1840
5	34.1	35.8 X 160	627.72	1840
6	40.2	35.8 X 160	640.05	1840
7	49.4	35.8 X 160	650.16	1840
8	57.4	35.9 X 160	661.11	1840
9	68.6	35.8 X 160	672.12	1840
10	77.4	35.4 X 156.5 35.4 X 158.5	687.55	1840
11	85.9	36.0 X 160	699.30	1810

APPENDIX RIVER TERMINALS

	OHIO RIVER COMMERCIAL DOCKS	1-21
	OHIO RIVER TRIBUTARY COMMERCIAL DOCKS	22 - 23
	BIG SANDY RIVER COMMERCIAL DOCKS	24 - 26
	OHIO RIVER PRIVATE DOCKS	27 - 38
	OHIO RIVER TRIBUTARY PRIVATE DOCKS	39 - 45

Ohio River Commercial Docks

Mile	Location	Facility Name	Commodities	Shelter	Facilities	Rail	Remarks
436.2	Felicity, OH	U.S. Army Corps of Engineers, Meldahl Locks and Dam (513) 876-2921					
414.1L	Maysville, KY	East Kentucky Power (Spurlock Station) (606) 883-3165 #265	Coal	None	Bucket Conveyor, conveyor	CSX	Row of steel sheet pile cells.
411.5R	Aberdeen, OH	Maysville Readymix 877-564-4081	Sand and gravel	None	Portable conveyor	None	Unloading by derrickboats.
406.8L	Maysville, KY	Transcontinental Terminals, (606) 564-6763	Coal	None	None	None	Mooring buoys.
406.1L	Maysville, KY	Transcontinental Terminals, Inc. Owned by CSX (606) 564-6763 (606) 564-6763	Coal	None	None	None	Floating dock.
405.5L	Maysville, KY	Crouse Corp. (South Fleet) (606) 564-6843	Coal	None	Belt conveyor from Stockpile	None	Floating mooring buoys.
405.0L	Maysville, KY	Crouse Corp. (606) 564-6843	Sand and gravel	None	Crane, conveyors and bins	None	Floating mooring buoys.

Ohio River Commercial Docks

Mile	Location	Facility Name	Commodities	Shelter	Facilities	Rail	Remarks
405.7R	Aberdeen, OH	Dayton Power and Light (Stewart Station) (937) 549-2641 #4410	Coal	None	Unloading dock, conveyors, mooring	None	Steel sheet pile cells.
404.5L	Maysville, KY	Crouse Corp (606) 564-6843					
403.2L	Maysville, KY	Carmeuse Lime (606) 564-5542 / 9634	Coal	None	Covered conveyor, crane and clamshell	CSX RY	Incoming coal to be unloaded by revolving crane and clamshell; covered conveyor.
401.7R	Aberdeen, OH	ERSHIGS (937) 549-3035					INACTIVE.
390.6R	Manchester, OH	Dayton Power and Light (Killen Station) (937) 549-3911 #8907	Miscellaneous	None	Mooring, docks, ice breakers, conveyor	None	Steel sheet piling bulkhead.
353.95R	Portsmouth, OH	Roy McGovney Const. Co. (740) 353-4111	Sand and Gravel	None	Mobile crane / Unloading Dock	None	Wharf.
352.6R	Portsmouth, OH	Norfolk & Southern Railway (540) 577-0630	Diesel oil	None	Pipeline	N&W RY	
351.8R	New Boston, OH	Infra - Metals (740) 353-1350		None	Revolving crane and grab bucket gantry		Steel sheet pile mooring cells.

Ohio River Commercial Docks

Mile	Location	Facility Name	Commodities	Shelter	Facilities	Rail	Remarks
351.6L	Siloam, KY	MarkWest Energy Appliachian (606) 932-3111	Gasoline & Butane	None	None	None	Two steel cells and pipelines to barge.
350.8L	South Shore, KY	Eastern Terminals, LLC	None	None	None	None	INACTIVE.
350.2R	New Boston, OH	Conley River Terminal (740) 776-2100	Rock	None	Crane	N&W RY	
349.4R	Sciotoville, OH	B.P. Oil Co. (740) 776-7979	Gasoline & oil	None	Incline and tram car handling material in drums	N&W RY	Two steel sheet pile cells with walkway pipe bridge from barge to storage tanks: unloading perffomed with pumps on delivering barge.
347 2R	Wheelersburg, OH	Kokosing Materials (740) 574-4770	Miscellaneous	None	Crane	N&W RY	Eight steel sheet pile mooring cells; Six steel sheet pile moorning cells.
347.0R	Wheelersburg, OH	McGinnis, Inc. (740) 377-4391 #34	Miscellaneous	None	Truck crane	N&W RY	Steel sheet pile bulkhead.
344.8R	Wheelersburg, OH	Norfolk and Southern Corp. (740) 354-8362	Miscellaneous	None	Crane		Steel sheet pile bulkhead.
341.0	Greenup, KY	U.S. Army Corps of Engineers, Greenup Locks and Dam (606) 473-7441					

Ohio River Commercial Docks

Mile	Location	Facility Name	Commodities	Shelter	Facilities	Rail	Remarks
336.6R	Haverhill, OH	Haverhill Chemicals (740) 532-3420	Chemicals	Tanker shed	pipeline, crane	None	Five steel sheet pile mooring cells.
336.6L	Greenup, KY	Ohio Valley Chipping (606) 473-0872	Wood	None	Conveyor from bin to barge	N&W RY	Steel pipe tri-ties and wood pile clusters.
334.8R	Hanging Rock, OH	McGinnis, Inc. Trucky Creek Fleeting Area (740) 377-4391 #34	None	None	None	None	Barge fleeting area.
334.0L	Greenup, KY	McGinnis, Inc. Debbie Joe Dock (740) 377-4391	Slag	None	Conveyor from bin to barge	None	Barge fleet area.
333.2R	Hanging Rock, OH	Dow Chemical Company (740) 533-4055	Chemicals	None	None	None	Two steel cells and pipeline to barge.
333.1L	Wortland, KY	E.I. DuPont DeNemours & Company (606) 833-1200	Sulphur	None	None	None	Two steel sheet pile mooring cells.
331.9L	Worthington, KY	McGinnis, Inc. - River Port (740) 377-4391 #34	Fleeting Area				
331.0R	Hanging Rock, OH	TRI-State Nurseries Phone number not available	None	None	None	None	Mooring pile clusters - INACTIVE.
330.0R	Hanging Rock, OH	Collins Mining Co. Phone number not available	None	None	Belt conveyor from bin to barge	None	Six wood mooring pile clusters, mine to bin by truck - INACTIVE.

Ohio River Commercial Docks

Mile	Location	Facility Name	Commodities	Shelter	Facilities	Rail	Remarks
329.5R	Ironton, OH	B.W.C. Trucking (740) 532-1144	Sand, gravel salt	Bins	Unloading crane & pipeline	None	Five steel sheet pile interlocking mooring cells.
327.7L	Russell, KY	CSX (606) 833-7419	Diesel oil	None	None	CSX RY	Two steel sheet pile mooring cells.
325.5L	Ashland, KY	A.K. Steel (606) 922-6313	Steel products and scrap metal	Terminal bldg	20-ton Crane Conveyor	None	Nine circular steel sheet pile mooring cells and an ice breaker cell. Barge fleet area.
325.1R	Ironton, OH	Keystone (740) 532-6100	Coal				
324.9R	Ironton, OH	Action Terminal (740) 533-0000	Gasoline and Oil	None	none	N&W RY	unloading is performed with pumps on delivering barge - INACTIVE.
324.6R	Ironton, OH	McGinnis Inc. (740) 377-4391 #34	None	None	Steam pump on mooring barge	N&W RY	Two steel sheet pile cells, mooring barge and pipeline.
324.5R	Ironton, OH	McGinnis Inc. (740) 377-4391 #34	Coal & Coke	None	Triple scoop elevator & 800' belt conveyor	N&W DT	Mooring piles; coal and coke unloaded.
323.8R	Ironton, OH	McGinnis, Inc. (740) 377-4391 #34	Coal	None	Belt Conveyor	None	Barge fleet area.
323.7R	Coal Grove, OH	McGinnis, Inc Oliver Elam Dock (740) 377-4391 #34		None		None	Fleeting Area.

Ohio River Commercial Docks

Mile	Location	Facility Name	Commodities	Shelter	Facilities	Rail	Remarks
323.3R	Coal Grove, OH	McGinnis Inc (740) 377-4391 #34	None	None	None	None	TRI - Ties/Fleeting Area - INACTIVE.
322.5L	Ashland, KY	Mansbach - Metal Company (606) 329-9600	Metal	None	Conveyor & Marine Way	CSX RY	Loaded by radial stacker. Remove barges from river for scrapping.
321.5R	Coal Grove, OH	McGinnis, Inc. (740) 377-4391 #34					
321.6L	Ashland, KY	McGinnis, Inc. (740) 377-4391 #34					
321.4L	Ashland, KY	A.K. Steel (606) 329-7119 / 739-5139					
321.0L	Ashland, KY	McGinnis, Inc. (740) 377-4391 #34					
320.4R	South Point, OH	McGinnis, Inc./ CSX (740) 377-4391 #34	Miscellaneous	None	None	None	Fleeting service.
319.6R	South Point, OH	McGinnis, Inc. (740) 377-4391 #34					Embedded barge; Q-Ties Plant Area.
319.4L	Ashland, KY	Merdie Boggs & Son, Inc. (606) 739-4154	Coal & coke	None	Three elevators and belt	CSX	Five concrete mooring piles; material conveyed from barge to railroad cars.

Ohio River Commercial Docks

Mile	Location	Facility Name	Commodities	Shelter	Facilities	Rail	Remarks
319.0L	Ashland, KY	Catlettsburg Boat Store (606) 739-5166	Miscellaneous	None		None	Grocery Store.
318.9R	Ashland, KY	Superior Marine Inc. Buckeye / Ethanol Cells Dock (740) 894-6224	Coal	None	Conveyor from bin to barge	RY	Sheet pile cells & mooring piles; Fleeting.
318.8L	Ashland, KY	R&D Associates, Inc. (606) 739-4166	None	None	Drydocks	None	Repairs to vessels.
318.5R	South Point, OH	Marathon Inc. (740) 894-6224		None		N&W RY	Four circular steel sheet pile mooring cells.
318.4L	Catlettsburg, KY	Marathon Inc. (606) 921-6159	Crude oil	None	Mooring barge	CSX RR	Mooring barge; one 10' pipeline from barge to storage tanks.
318.0R	South Point, OH	McGinnis, Inc. (740) 377-4391 #34	None	None	None	None	Fleeting.
318.3L	Catlettsburg, KY	Marathon Heavy Oil Dock (606) 921-6160	Boat and barge repairs	None	None	None	Wharf.
317.7L	Catlettsburg, KY	Merdie Boggs & Sons, Inc. Boat Store (606) 739-4154 / 4155	Mooring service Boat Store	None	Pumps on refueling barge	None	Harbor and midstream refueling service.
317 2R	South Point, OH	McGinnis, Inc. (740) 377-4391 #34	None	None	Derrickboat and drydocks	None	Boat and barge repairs; fleeting service.

Ohio River Commercial Docks

Mile	Location	Facility Name	Commodities	Shelter	Facilities	Rail	Remarks
317.0L	<u>BIG SANDY RIVER</u>	(See Sheet 26)					
316.7L	Kenova, WV	Ohio River Co. Terminal (304) 523-6461	Coal	None	Belt conveyor from bin to barge	N&W RY	Six circular steel pile mooring cells and one 40' supporting belt conveyor: mine to bin by rail.
316.6L	Kenova, WV	Marathon (606) 921-3137 (304) 453-3331	Gasoline & oil	Shed	Pumps on refueling barge and pipeline.	None	Refueling facilities.
316.7R	South Point, OH	McGinnis Inc.	Mooring service	None	None	None	Fleeting Area.
316.5L	Virginia Point, WV	Marathon / McGinnis, Inc. (740) 377-4391 #34	Miscellaneous	None	None	None	Fleeting service.
316.5R	South Point, OH	Marathon (606) 921-3137	None	None	None	None	Empty barge storage.
316.4L	Kenova, WV	Marathon (606) 921-3137 (Kenova Dock)	Gasoline & oil	None	Pumps on mooring barge	None	Mooring barge; one 12", one 10", and three 9" pipelines from barge to storage tanks.
316.3R	South Point, OH	Marathon (606) 921-3137	None	None	None	None	Mooring cells.
316.2R	South Point, OH	McGinnis Inc. (740) 377-4391 #34	Mooring service	None	None	None	Fleeting Area.

Ohio River Commercial Docks

Mile	Location	Facility Name	Commodities	Shelter	Facilities	Rail	Remarks
315.5L	South Point, OH	Marathon (606) 921-3137	None	None	None		Empty barge storage.
315.3R	South Point, OH	Superior Marine Inc. (740) 894-6224	Coal	Office	Shop	None	Tri and Quad cells, moring cells.
314.9L	Ceredo, WV	Kosmos Cement (304) 453-6331	Cement	None	Pipeline	None	Steel pile cell.
314.7R	South Point, OH	Superior Marine Inc. (740) 894-6224	Barge repairs	None	Drydocking facilities	None	Marine ways & drydock.
314.6L	Ceredo, WV	Kanawha River Terminals (Ceredo Dock) (304) 526-0700	Coal	None	Belt conveyor from processing plant to barge	CSX RY B&O NS	Conveyor mounted on mooring barge; mine to processing plant by rail.
314.4R	Kenova, OH	McGinnis, Inc. (740) 377-4391	Barge repairs	None	Drydocks	None	Fleeting service.
314.3L	Ceredo, WV	Kanawha River Terminals Ceredo Liquids (304) 526-0708					INACTIVE.
310.4L	Huntington, WV	Fuchs Lubricants (304) 523-3716 #12 OR 16	Oil	None	None	None	Mooring barge; one 6" pipeline; unloading performed with pumps on delivering barge.
309.2L	Huntington, WV	Taylor Iron & Metal, Inc. (304) 525-6390	Metal	None	None	None	Fleeting area, 2 quad cells - Proposed.

Ohio River Commercial Docks

Mile	Location	Facility Name	Commodities	Shelter	Facilities	Rail	Remarks
309.0L	Huntington, WV	Taylor Iron & Metal, Inc. (304) 525-6390	Metal	None	None	None	Dock; unloading and loading - Proposed.
307.7L	Huntington, WV	Steel of West Virginia (304) 696-8200	Steel products	None	None	CSX RR	Embedded barge.
307.2L	Huntington, WV	Ohio River Terminal Co. Repair Shop (304) 633-0648	Mooring service	None	None	None	Fleeting area.
306.5L	Huntington, WV	Ohio River Terminal Co (304) 633-0648	None	None	None	None	Mooring barge, steel mooring cells.
305.9R	Huntington, WV	Riverside Trucking Co. (Marine Terminal) (740) 894-6224	None	None	Crane	None	Fleeting Area/Unload.
305.7R	Proctorville, OH	Superior Marine, Inc. (740) 894-6224	Racetrack fleet	None		None	Out of water repairs.
305.5R	Proctorville, OH	Superior Marine, Inc. (740) 894-6224	Riverside fleet	None	Marine ways, crane	None	Barge repair & inspection. Scrap metal.
304.1L	Huntington, WV	Southern WV Asphalt (304) 697-1151	Miscellaneous	None	Truck crane	None	Wharf.
304.0R	Proctorville, OH	Shelly Materials (740) 423-9803	Sand & gravel Limestone	None	None	None	1 steel tri pile and 1 steel quad pile mooring.

Ohio River Commercial Docks

Mile	Location	Facility Name	Commodities	Shelter	Facilities	Rail	Remarks
303.6L	Huntington, WV	Gulf Refining Company Phone number not available					Two Cells - INACTIVE.
299.9L	Lesage, WV	ESSROC Ready Mix (304) 485-2191	Sand & gravel	None	Barge Crane	None	None.
298.1L	Lesage, WV	Adams Trucking River Terminal (304) 736-7788	Sand & gravel Limestone	None	Truck Crane	B&O RR	Wharf.
289.6R	Clipper Mills, OH	ODNR Cells Phone number not available					
280.7L	Apple Grove, WV	M&G Polymers (Apple Grove Plant) (304) 576-2041	Chemicals	None	None	CSX	Two steel sheet pile mooring cells, pipeline to barge.
279.2	Gallipolis Ferry, WV	U.S. Army Corps of Engineers, R. C. Byrd Locks and Dam (304) 576-2272					
277.2L	Henderson, WV	Shamblin Stone (304) 937-2650					
273.7R	Clipper Mills, OH	Mack River Terminals	Coal	None	Belt conveyor from bin to barge	None	Row of steel sheet piles, 1250' long.
273.4R	Clipper Mills, OH	Clipper Mills Dock Co. Phone number not available	Coal	None	Belt conveyor from bin to barge	None	Wood mooring piles - INACTIVE.

Ohio River Commercial Docks

Mile	Location	Facility Name	Commodities	Shelter	Facilities	Rail	Remarks
268.0R	Maple shade, OH	ESSROC Ready Mix (304) 485-2191	Sand & gravel	None	Barge Crane	None	None.
267.8R	Maple shade, OH	Cremeans Concrete (740) 446-1142	Sand & gravel	None	Derrick boat, belt conveyor	None	Embedded barges - INACTIVE.
267.2R	Maple shade, OH	K-Mart Upper / Lower Fleeting area Amherst Industries (304) 926-1140					Fleet Area.
266.8L	Henderson, WV	Campbell's Transportation	Mooring Service	None	None	None	Landing for holding barges.
266.0R	Maple shade, OH	O - Kan Harbor Amherst Industries (304) 926-1140					Fleet Area.
265.5L	KANAWHA RIVER	(See Huntington District Kanawha River Navigation Charts)					
264.6L	Pt. Pleasant, WV	Custom Fuel service (740) 446-4480/4515	Diesel fuel	None	Quarter boat and	None	Midstream refueling service.
264.8R	Kanauga, OH	Sands Hill Coal Mining LLC. (740) 384-4211	Coal	None	Belt conveyor	None	Wood mooring piles, mine to bin by truck.

Ohio River Commercial Docks

Mile	Location	Facility Name	Commodities	Shelter	Facilities	Rail	Remarks
264.4R	Kanauga, OH	Shelly Materials (740) 441-1771	Sand, gravel & limestone	None	Conveyor Hopper	None	Embedded barge and 4 wood pile clusters.
263.6L	Pt. Pleasant, WV	Pt. Pleasant Marine Co. Phone number not available	Marine repair	None	Dry-docking facilities	None	Marine ways and dry-docks - INACTIVE.
263.0R	Kanauga, OH	J. Hall (Trust)	Coal	None	Belt conveyor from bin to barge	None	Row of steel sheet pile mooring cells, 930' long.
260.2L	York Station, WV	Pantasote Co. Phone number not available	Chemicals	None	None	None	Nine pile clusters & three ice breakers - INACTIVE.
259.6R	Cheshire, OH	Ohio Valley Electric Corp. (Kyger Creek) (740) 367-5050	Coal	None	Two Cranes	None	Mooring Cells.
258.2R	Cheshire, OH	American Electric Plant (Gavin Plant) (740) 925-3267	Coal and Lime	Shed	Conveyor Crane	None	Ice Breakers and mooring cells.
257.0L	York Station, WV	American Electric Power (304) 675-6300	Area Unloading Facility	Service Building	Material Handler	None	9 steel sheet pile cells.
256.1 R	Cheshire, OH	J. Hall Trust					
252.4L	Clifton, WV	Raven Hocking Coal Corp. Phone number not available	Coal	None	Belt conveyor from bin to barge	C&O RY	INACTIVE.

Ohio River Commercial Docks

Mile	Location	Facility Name	Commodities	Shelter	Facilities	Rail	Remarks
247.8R	Minersville, OH	Raven Hocking Coal Corp. Phone number not available	Coal	None	Belt conveyor from bin to barge	C&O RY	Eight mooring piles 820' long - INACTIVE.
243.8L	New Haven, WV	American Electric Power (Mountaineer Plant) (304) 882-2151	Coal and Lime	Shed	Coal barge unloader E Crane	CSX RR	Row of steel pile mooring cells, 2775' long; Mooring Barge and work flat.
241.6L	New Haven, WV	American Electric Power (Phillip Sporn Plant) (740) 302-5464 (304) 882-1736	Coal	None	Gantry Crane	CSX RR	Row of steel sheet pile mooring cells, 4375' long and one ice breaker cell; coal transferred from barge to hopper by crane.
241.1L	New Haven, WV	Marietta Industries (740) 525-0555	Miscellaneous	None	Derrickboat Crane Barge	CSX RR	Two wood pile clusters & steel dock.
240.6R	Racine, OH	Gatling Coal Company (740) 949-2000 / (304) 882-1300	Coal				
237.5	Letart, WV	U.S. Army Corps of Engineers, Racine Locks and Dam (304) 882-2118					
235.8L	Letart, WV	Martin Marietta Aggregates 1-800-762-8209	Sand & gravel	None	None	None	Loading and Unloading.

Ohio River Commercial Docks

Mile	Location	Facility Name	Commodities	Shelter	Facilities	Rail	Remarks
233.8R	Apple Grove, OH	Shelly Materials (740) 423-9803	Sand & gravel	None	None	None	Seven steel sheet pile cells and ten wood pile clusters, and 2 steel beam moorings.
232.2R	Apple Grove, OH	Martin Marietta Aggregates (740) 247-2211	Sand and gravel	None	Conveyor	None	Wharf and six steel sheet pile cells.
231.3L	MILL CREEK	(See Sheet 24)					
230.0R	Apple Grove, OH	Shelly Materials (740) 423-9803	Sand and Gravel	None	None	None	5 Steel Beam Mooring, 3 wood clusters and 2 steel clusters.
229.5L	Millwood, WV	Valley Inc. (304) 273-4555	Sand ,Gravel and limestone, metal	None	Crane	None	Embedded barge with bulkhead and wood morring piles.
226.9L	Ravenswood, WV	Century aluminum corp. (304) 273-6000					
220.5L	Ravenswood, WV	Martin Marietta Materials (Ravenswood Yard) (304) 273-2600	Sand, gravel, and limestone		Crane	None	Barge mounted; Deadman cabled off.
215.4 R	Portland, OH	Shelly Materials (Portland Cells) (740) 843-5293	Sand, gravel	None	Conveyor	None	Spudded-floating barge; 12-sheet pile cells; 2 steel pipe tripods.
205.7 R	Reedsville, OH	JayMar (740) 378-6425	Sand and Gravel	None	Convevor	None	5 Steel cells, 2 Quad Ties.

Ohio River Commercial Docks

Mile	Location	Facility Name	Commodities	Shelter	Facilities	Rail	Remarks
203.9	Reedsville, OH	U.S. Army Corps of Engineers, Belleville Locks and Dam (740) 378-6110					
194.2R	Little Hocking, OH	Belpre Sand and Gravel (740) 989-2290	Sand and Gravel	Shed	Conveyor	None	Barge.
193.0L	Washington, WV	Northwest Pipe (304) 863-3316	Steel	None	Crane	None	None.
191.3 L	Washington, WV	Sabic Plastics (304) 420-2441	Chemicals	None	None	None	Two steel sheet pile cells, three pile clusters, & operating platform; Pipeline from barge to plant; Unloading performed with pump delivering barge.
189.5R	Belpre, OH	Price Inland Terminals (740) 423-9803	Coal	None	3 crawler cranes	None	Two barges sparred to bank. 3 Deadmen. Five tri-ties and a cell.
189.0L	Blennerhassett Island, WV	E.I. DuPont De Nemours Company (606) 833-1200					
188.6R	Belpre, OH	Kraton Polymers (740) 423-7571	Chemicals	None	Pipeline	CSX RR	Steel sheet pile cells and two pile clusters.
188.3R	Belpre, OH	Nova Chemical/INEOS (740) 350-5249	Chemicals	Shed	Pipeline	None	Barge cell, 4 tie off dolphins.

Ohio River Commercial Docks

Mile	Location	Facility Name	Commodities	Shelter	Facilities	Rail	Remarks
184.6L	<u>LITTLE</u> <u>KANAWHA</u> <u>RIVER</u>	(See Sheet 24)					
184.0L	Parkersburg, WV	Martin Marietta Aggregates (12th Street Dock) 1-800 - 732-3485 #18				B&O RR	Fleeting Harbor Steel sheet pile cells.
183.4L	Parkersburg, WV	Elk Refining Co. Phone number not available	None	None	None	B&O RR	Steel landing barge; pipelines to storage tanks; unloading performed with pumps on delivering barge - INACTIVE.
182.6L	Parkersburg, WV	Parkersburg Steel Phone number not available	None	None	None	None	Three steel sheet pile cells - INACTIVE.
182.0R	Belpre, OH	Degussa Carbons (740) 423-9571	Feedstock	Shed	Pipeline	CSX RR	Two steel sheet pile cells, pipelines from barge to 5 storage tanks.
179.3R	Belpre, OH	Asphalt Materials Inc. South Location (740) 373-3040	Crude oil, asphaltic oil & products	None	Pumping facilities on each barge	None	Two steel pile clusters and dock with pipelines to storage tanks.
178.9R	Constitution, OH	Dock Side Terminal (740) 373-2252	Miscellaneous	None	Truck crane for handing freight; Conveyor	None	Steel cell, bulk material unloaded by truck crane.
178.3R	Constitution, OH	Neale Marine Transportation (Neal Harbor) (304) 295-4223	None	None	None	None	Fleeting barges.

Ohio River Commercial Docks

Mile	Location	Facility Name	Commodities	Shelter	Facilities	Rail	Remarks
178.1L	Briscoe, WV	Neale Marine Transportation (Neal Harbor---Island) (304) 295-4223	Fleeting Coal	None	Barge Crane Dry Dock	None	8 Tri ties, 2 anchor floats, 5 trie ties.
177.1R	Gravel Bank, OH	Mid-Ohio Valley Lime, Inc.	None	None	None	None	Two steel sheet pile cells and walkway - INACTIVE.
176.6R	Marietta, OH	B & N Coal Inc. (740) 568-0087	Miscellaneous				INACTIVE.
176.5R	Marietta, OH	Chevron-Phillips (740) 374-2500	Chemical	None	Stiffleg derrick with 70' boom	B&O RR	Unloading dock, two ice breakers & row of barge to conveyors and trucks by use of revolving crane.
175.9R	Marietta, OH	Solvay Advance Polymers (740) 373-9242	Chemical	None	Truck crane for freight	None	Natural bank.
175.6R	Marietta, OH	Eramet Chemical (740) 374-1000	Gasoline & oil	None	None	B&O	Steel cell, three sheet mooring cells, two 8" pipelines from barge to storage tanks.
175.0R	Marietta, OH	Asphalt Materials and Construction Company North Location (740) 373-6050	Asphalt	None	None	B&O	None.
174.8R	Marietta, OH	Marathon (740) 374-5067 After hours: (740) 516-6621	Gasoline & oil.	Shed	Pipeline, floating	None	One "6" pipeline from barge to storage tanks. Unloading is performed with pumps on delivering barge.

Ohio River Commercial Docks

Mile	Location	Facility Name	Commodities	Shelter	Facilities	Rail	Remarks
173.8R	Marietta, OH	Marathon Pipeline (740) 374-5067 After hours: (740) 516-6621	Gasoline & oil	None	None	None	Steel cell and pile cluster. Pipeline from barges to storage. Unloading is performed with pumps on delivering barge; Mooring Barge.
173.1R	Marietta, OH	Itapco (740) 373-4655	Gasoline & oil	None	None	B&O RR	Three steel sheet pile mooring cells; pipeline from storage tanks to barges. Unloading is performed with pump to barge from tank to barge. Unloading is performed with pumps on delivering barge.
172.2R	<u>MUSKINGUM RIVER</u>	(See Sheet 25)					
168.7R	Reno, OH	Smith Concrete (740) 373-7441	Miscellaneous	None	None	None	None.
166.3L	Waverly, WV	Carr Concrete (617) 345-0100	Miscellaneous	None	Crane	None	None.
164.2L	Waverly, WV	Cabot Corp.(Ohio River Plant) (304) 665-2441	Chemicals	None	None	None	Three steel sheet pile cells.
162.9L	Waverly, WV	Select Energy Services LLC. (304) 665-2941 (304) 668-1328	Limestone, Sand Salt	None	Crane	None	2 mooring cells.

Ohio River Commercial Docks

Mile	Location	Facility Name	Commodities	Shelter	Facilities	Rail	Remarks
161.7	New Port, OH	U.S. Army Corps of Engineers, Willow Island Locks and Dam (740) 374-8710					
161.3L	Willow Island, WV	Cytec Industries (304) 665-2422 ext.360 (304) 919-8889	None	None	None	CSX	2 mooring cells with walk way - INACTIVE.
160.8L	Willow Island, WV	FirstEnergy Corp. (Lime Unloading Dock) (304) 665-3200	Lime	None	Crane and belt conveyor	B&O RR	8 mooring cells and unloading dock.
160.4L	Belmont, WV	FirstEnergy Corp. (Pleasants Station) (304) 665-3200	Coal	None	Crane and belt conveyor	B&O RR	Steel sheet pile cells (4058' long) and industrial intake.
159.3R	Newport, OH	Ohio Oil Gathering Corp. (740) 473-2711	Crude oil	None	None	None	Pile cluster and mooring barge; 8" line to storage tanks; unloading via pump on delivering barge.
155.2L	St. Mary's, WV	St. Mary's Refining Co., Inc. (304) 684-2200	Gasoline & Diesel Fuel	Shed	Pipeline for unloading	None	Four sheet pile cells. Pipeline to barge.
146.9L	Bens Run, WV	Inorganic Chemicals Div., FMC Corp. Phone number not available	Saltbrine	None	None	None	Two steel sheet pile cells. Pipeline to barge - INACTIVE.

Ohio River Commercial Docks

Mile	Location	Facility Name	Commodities	Shelter	Facilities	Rail	Remarks
146.2L	Bens Run, WV	Dominion Transmission (304) 652-2772	Gasoline	None	Pipeline for loading	None	Wood mooring piles.
145.3L	Long Reach, WV	Momentive Performance Materials (304) 652-8221		None	Pipeline and hoist	None	2 Sheet pile cells - INACTIVE.
143.1R	New Matamoras, OH	TRI-State Petroleum Inc. Phone number not available					
129.5L	New Martinsville, WV	Lhoist North America Chemical Lime (304) 455-5216	Pebble & lime	Shed	Conveyor Crane	CSX	Unloading Dock and fleeting area.
127.2L	New Martinsville, WV	Martin - Marietta Materials Aggregates Div. (304) 482-7410	Limestone Sand and Gravel	None	Conveyor; Spud Barge Crane	None	Deadman mooring.

Ohio River Tributaries

Mile	Location	Facility Name	Commodities	Shelter	Facilities	Rail	Remarks
<u>MILL CREEK</u>							
0.8L	Millwood, WV	Valley Inc. (304) 273-5555 (304) 532-5421	Sand, Gravel and limestone	None	Crane	None	Embedded barge with bulkhead and wood morring piles.
<u>LITTLE KANAWHA RIVER</u>							
1.6R	Parkersburg, WV	B.T. Energy					INACTIVE.
1.5R	Parkersburg, WV	Exxon Co.					INACTIVE.
1.7L	Parkersburg, WV	Marietta Industrial Enterprises (740) 525-0555	Miscellaneous	None	Crane Conveyor	CSX	Barge; Cells.
2.2L	Parkersburg, WV	Martin Marietta Aggregates (304) 428-5501 (304) 485-7341	Sand and Gravel Limestone	None	None	None	Deadmen.
2.4L	Parkersburg, WV	Camden Material (304) 422-4709	Sand, Gravel, Limestone and Slag	None	Crane	None	Mooring bulkhead.
2.8R	Parkersburg, WV	Atlas Towing Co. (304) 428- 0341	Sand and Gravel Limestone	None	Crane Conveyor	None	Mooring bulkhead.

Ohio River Tributaries

Mile	Location	Facility Name	Commodities	Shelter	Facilities	Rail	Remarks
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3.6L	Parkersburg, WV	ESSROC Ready Mix (304) 422-4516	Sand and Gravel	None	Barge Crane	None	None.
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MUSKINGUM RIVER

0.1L	Marietta, OH	U.S. Army Corps of Engineers, (740) 373-3393 / 6701	Warehouse and shop	None	Crane	None	Huntington District, Repair Station.
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Big Sandy River Commercial Docks

Mile	Location	Facility Name	Commodities	Shelter	Facilities	Rail	Remarks
3.2L	Catlettsburg, KY	Marathon Petroleum Co., LLC (Crude Oil Dock) (606) 921-6159	Petroleum Off/Spec	Operator Shed	Pipeline	None	Steel mooring cells.
3.6R	Kenova, WV	Ashland Oil, Inc. (Neal Plant)	Chemicals	None	None	None	Steel mooring cells - INACTIVE.
3.7L	Catlettsburg, KY	Marathon Petroleum Co., LLC (Chemical Dock) (606) 921-6161	Chemical and Petroleum	Shed	Pipeline	None	Steel mooring cells.
3.9L	Catlettsburg, KY	Marathon Petroleum Co., LLC (Heavy Oil Dock) (606) 921-6160	Fuel oil Asphalt	Shed	Pipeline	None	Steel mooring cells.
4.5L	Catlettsburg, KY	Transload Terminal (606) 739-5189	Coal	Shed	Conveyor	CSX	Steel pipe tri-ties.

Big Sandy River Commercial Docks

Mile	Location	Facility Name	Commodities	Shelter	Facilities	Rail	Remarks
4.7L	Catlettsburg, KY	Cliffs Logan County Coal Terminals LLC (304) 583-5943	None	None	Conveyor	CSX	Steel pipe tri-ties - INACTIVE.
5.5R	Kenova, WV	Kenova Water Works Day Time: (304) 453-2205 City Hall: (304) 453-1631 Police 24 hrs: (304) 453-5555	Water	None	None	None	Municipal Water Intake.
6.1L	Catlettsburg, KY	Calgon Carbon Corp. (606) 739-8681 # 0	None	None	None	None	Industrial Water Intake.
6.1R	Kenova, WV	Docks Creek, LLC. (304) 453-6161	Coal/ Hydrogen Nitrate and Slag	None	Crane	NS RR	Steel pipe tri-ties.
6.3R	Kenova, WV	Docks Creek, LLC. (304) 453-6161	Coal/ Hydrogen Nitrate and Slag	None	Crane	NS RR	Steel pipe tri-ties.
6.6L	Catlettsburg, KY	Arch Coal Terminal (606) 739-8499	Coal	Shed	Conveyor	None	Tri ties, mooring cells.

Big Sandy River Commercial Docks

Mile	Location	Facility Name	Commodities	Shelter	Facilities	Rail	Remarks
7.1L	Catlettsburg, KY	Arch Coal Terminal (Lockwood Dock) (606) 739-8499	Coal	None	Conveyor Crane		Tri ties, mooring cells.
7.2L	Catlettsburg, KY	Riverway Terminal (606) 739-4116	Coal	None	None	None	Steel pipe tri-ties.
7.4L	Catlettsburg, KY	Riverway Terminal (606) 739-4116	Coal	None	Conveyor	None	Steel pipe tri-ties.
7.6R	Kenova, WV	Argus Energy (Wayne County) (304) 453- 2914	Coal	None	Conveyor	None	Steel pipe tri-ties.
7.6L	Catlettsburg, KY	Kentucky Coal, Terminal (304) 526-0732 (304) 526-0731	Coal	Shed	Conveyor	None	Steel pipe tri-ties and quad ties.
8.0L	Catlettsburg, KY	Red Bud North (606) 739-0411	Coal	Shed	Conveyor	None	Steel pipe tri-ties.
8.4L	Catlettsburg, KY	Red Bud Terminal (606) 739-0411	Coal	Shed	Conveyor	None	Steel pipe tri-ties.

Big Sandy River Commercial Docks

Mile	Location	Facility Name	Commodities	Shelter	Facilities	Rail	Remarks
8.5R	Kenova, WV	CCI Cyrus River Terminal, LLC Day time: (304) 781-1235 After hours: (304) 840-1998	Coal	Shed	Conveyor	None	Steel pipe tri-ties.
8.6L	Catlettsburg, KY	Red Bud South (606) 739-0411	Coal	Shed	Conveyor	None	Steel pipe tri-ties.
8.9L	Catlettsburg, KY	Riverview Terminals	Fleeting Service	None	None	None	Steel pipe tri-ties - INACTIVE.

Ohio River Recreational Docks

Mile	Facility Name	Fuel	Restaurant	Groceries	Overnight Mooring	Lodging	Remarks
437.8R	City of Neville Launching Ramp and Dock (513) 553-2072	No	No	No	No	No	Launching Ramp and Paved landing
434.2R	ODNR Public Launching Ramp and River Museum, Old Lock # 34 (Chilo) (513) 876-9013	No	No	No	No	No	Launching Ramp and Paved landing Museum Hours Memorial Day - Labor Day 7 Days per week 12:00 a.m. to 5:00 p.m. December to March Closed Need Appointment to be opened in winter Restrooms open year round
433.0R	Fat Boys Floating Restaurant (513) 876-3703	No	Yes	No	No	No	Dock Closed during the Winter
432.8R	<u>BULL SKIN CREEK</u> (See Sheet 42)						
429.0R	Riverside Campground, Marina And boat Ramp Phone number not available						
427.1L	Augusta Ferry Landing (606) 756-3291	No	No	No	No	No	8:00 am - 7:45 pm, 7 days per week (Weather Permitting)
427.0L	Augusta River Front (606) 756-2183 Mayor's Office	No	No	No	Yes	No	

Ohio River Recreational Docks

Mile	Facility Name	Fuel	Restaurant	Groceries	Overnight Mooring	Lodging	Remarks
426.5L	City of Augusta Launching Ramp and Dock (606) 756-2183 Mayor's Office	No	No	No	No	No	Launching Ramp and Dock
426.4L	<u>BRACKEN CREEK</u> (See Sheet 42)						
424.7R	City of Higginsport Landing (937) 375-4115						Launching Ramp and Paved landing
424.6R	Ohio River House / Bed and Breakfast (937) 725-1986	No	No	No	Yes	Yes	Dock
423.9R	<u>WHITE OAK CREEK</u> (See Sheet 42)						
421.6R	<u>STRAIGHT CREEK</u> (See Sheet 42)						
419.7L	Kentucky Department Fish and Wild Life 1-800-858-1549	No	No	No	No	No	Launching Ramp and Paved landing
417.9R	SunSet Bar and Grill Dock						Seasonal
417.2R	City of Ripley Launching Ramp (937) 392-4377						Launching Ramp and Paved landing
417.1R	Ripley Boat club (937) 392-9275						Dock,Beer, Ice, Gas, And Camping
415.7R	<u>EAGLE CREEK</u> (See Sheet 42,43)						

Ohio River Recreational Docks

Mile	Facility Name	Fuel	Restaurant	Groceries	Overnight Mooring	Lodging	Remarks
409.0R	Lively Lady Marine (937) 795-2722	No	No	No	Yes	No	Seasonal Shower, Laundry, bar, camping
408.7R	City of Aberdeen Launching Ramp (937) 795-2212 Mayors Office	No	No	No	No	No	Launching Ramp and Paved landing
408.2R	Rigdon boat Club Phone number not available						Launching Ramp and Paved landing
407.0L	City of Maysville River Park Dock and Boat Ramp (606) 782-6203	No	No	No	No	No	Refreshments, Launching ramp and Parking
397.2R	City of Manchester Launching Ramp (937) 549-3330 (937) 549-2516	No	No	No	No	No	Launching Ramp and Paved landing
395.7R	Manchester Island Launching Ramp (937) 549-3330 (937) 549-2516 (937) 544-6397 troy	Yes	No	No	No	No	Launching Ramp and Paved landing Restroom and Gas
388.0R	<u>BRUSH CREEK</u> (See Sheet 43)						
378.4L	<u>SALT LICK CREEK</u> (See Sheet 43)						
378.0L	Vanceburg Boat Club (606) 796-2111						Launching Ramp and Paved landing

Ohio River Recreational Docks

Mile	Facility Name	Fuel	Restaurant	Groceries	Overnight Mooring	Lodging	Remarks
368.1L	<u>KINNICONNICK CREEK</u> (See Sheet 43)						
336.1R	<u>NACE RUN</u> (See Sheet 44)						
356.1R	Anchor Pad Marina 740-353-2792	No	No	No	Yes	No	Launching ramp, restroom
356.0R	City of Portsmouth River Front and Ramp (740) 354-8807 City Council (740) 354-4101 Police	No	No	No	No	No	Launching Ramp and Paved landing
355.6R	Shawnee Boating Club (740) 354-5243	Yes	No	No	Yes	No	Refreshments
355.1R	Doyles Landing (740) 354-8807 City Council (740) 354-4101 Police	No	No	No	No	No	Launching Ramp and Paved landing
354.1L	City of South Shore Launching Ramp (606) 932-3311	No	No	No	No	No	Launching Ramp and Paved landing
344.2R	Burke's Point Launching Ramp (740) 357-8693	No	No	No	No	No	Launching Ramp and Paved landing
338.9R	<u>GINAT RUN</u> (See Sheet 44)						
336.4L	<u>LITTLE SANDY RIVER</u> (See Sheet 44)						

Ohio River Recreational Docks

Mile	Facility Name	Fuel	Restaurant	Groceries	Overnight Mooring	Lodging	Remarks
334.5L	Castle Marina (606) 473-7321	No	No	No	No	No	Boat supplies, tie-up to bank
331.0L	<u>POND RUN</u> (See Sheet 44)						
328.0R	<u>STORMS CREEK</u> (See Sheet 44)						
327.2R	City of Ironton Launching Ramp (740) 532-3833/3121	No	Yes	No	No	No	Paved public landing and Food.
327.1R	Fuzzy Duck (740) 532-3223	No	Yes	No	No	No	Resturant, ice, beer.
324.4 R	<u>Ice Creek</u> (See Sheet 45)						
322.6L	City of Ashland Launching Ramp (606) 327-2001	No	No	No	No	No	Launching ramp and parking
318.0L	Boat Store (606) 739-4154	Yes	No	Yes	No	No	Snacks
317.1R	Village of South Point Launching Ramp (740) 377-4011 Police						
317.0L	<u>BIG SANDY RIVER</u> (See Sheet 45)						
308.6R	<u>SYMMES CREEK</u> (See Sheet 45)						

Ohio River Recreational Docks

Mile	Facility Name	Fuel	Restaurant	Groceries	Overnight Mooring	Lodging	Remarks
308.1L	City of Huntington Harris Riverfront Boat Ramp (304) 696-5540 Mayor's Office	No	No	No	No	No	Launching ramp, parking and restrooms
307.9L	Holderby's Landing Huntington's Riverfront (304) 523-2628						and restrooms
307.9L	Huntington Yacht Club Huntington's Riverfront (304) 525-6710	Yes	Yes	No	Yes	No	Pump out Station
306.0R	<u>INDIAN GUYAN CREEK</u> (See Sheet 45)						
305.2L	<u>GUYANDOTTE RIVER</u> (See Sheet 45)						
305.1L	Adams Landing - (304) 529-6171 Schooner's Restaurant - (304) 529-3663	Yes	Yes	Yes	Yes	No	Refreshments, boat store, open year round
301.0R	Old Lock 27 And Launching Ramp (740) 532-3525 Police	No	No	No	No	No	Launching ramp
297.4R	Athalia Boat Ramp Phone number not available						
287.5L	WV. Dept. of Natural Resources Launching Ramp (Green Bottom) Phone number not available						

Ohio River Recreational Docks

Mile	Facility Name	Fuel	Restaurant	Groceries	Overnight Mooring	Lodging	Remarks
284.2R	Launching Ramp Phone number not available						
270.1R	<u>CHICKAMAUGA CREEK</u> (See Sheet 45)						
269.7R	City of Gallipolis Launching Ramp Phone number not available	No	No	No	No	No	Launching ramp, parking and restrooms
265.6L	<u>KANAWHA RIVER</u> (See Huntington District Kanawha River Navigation Charts)						
265.5R	Twin Rivers Marina and Launching Ramp (740) 446-6700	No	No	No	No	No	Launching ramp and parking.
265.2L	City of Point Pleasant River Front Park (304) 675-5989 Mayor's Office	No	No	No	Yes	No	Paved public landing. Restrooms Seasonal October to First of May closed.
257.5R	Cheshire Launching Ramp Phone number not available						
254.1R	<u>LEADING CREEK</u> (See Sheet 45)						
252.2R	City of Middleport Landing Phone number not available	No	No	No	No	No	Paved public landing.
250.9R	McDonald's Dock (216) 441-0180	No	Yes	No	No	No	Mooring Dock Fast Food

Ohio River Recreational Docks

Mile	Facility Name	Fuel	Restaurant	Groceries	Overnight Mooring	Lodging	Remarks
250.7R	Wild horse Cafe Dock (740) 992-0099	No	Yes	No	No	No	Mooring Dock Restaurant
250.5 L	KFC Dock (740) 992-5432	No	Yes	No	No	No	Mooring Dock Restaurant
250.2R	City of Pomeroy Landing (Pomeroy River Front) (740) 992-6633	No	No	No	No	No	Paved public landing.
250.2L	City of Mason Launching Ramp Phone number not available	No	No	No	No	No	Launching ramp, parking, restrooms
245.6R	City of Syracuse Launching Ramp Phone number not available						
241.5R	Ohio Dept. of Natural Resources Launching Ramp Phone number not available	No	No	No	No	No	Public landing.
234.9L	<u>TOMBLESON RUN (See Sheet 46)</u>						
221.1L	City of Ravenswood Launching Ramp Ravenswood, WV 26164 Phone number not available	No	No	No	No	No	Launching ramp, parking and restrooms
220.8L	City of Ravenswood Launching Ramp Phone number not available	No	No	No	No	No	Paved public landing.

Ohio River Recreational Docks

Mile	Facility Name	Fuel	Restaurant	Groceries	Overnight Mooring	Lodging	Remarks
207.9R	Ohio Dept. of Natural Launching Ramp (Forked Run) Phone number not available	No	No	No	No	No	Paved landing, courtesy dock.
199.3R	<u>HOCKING RIVER</u> (See Sheet 46)						
199.2R	Eddies Marina and Launching Ramp Phone number not available						
199.1R	Athens Boat, Ski Club and Launching Ramp						
192.4R	WV Dept of Natural Resources Launching Ramp Phone number not available						
186.1R	City of Belpre Launching Ramp Phone number not available	No	No	No	No	No	Paved public landing.
186.0R	Blennerhassett Island Launching Ramp Phone number not available	No	No	No	No	No	Landing for access to Blennerhasset Historic Park
184.6L	Kokomo's Dock (304) 422-7717						Dock
184.6R	Dave's Marine (740) 423-6541						

Ohio River Recreational Docks

Mile	Facility Name	Fuel	Restaurant	Groceries	Overnight Mooring	Lodging	Remarks
184.6L	<u>LITTLE KANAWHA RIVER</u> (See Sheet 46,47)						
184.5L	Point Park Public Access (304) 424-8568	No	No	No	No	No	Picnic area and tie-up.
184.0 L	Rumbles Sternwheeler Landing Phone number not available						
183.6R	Blennerhassett Yacht Club Phone number not available	No	No	No	Yes	No	Paved launching ramp, refreshments
181.2R	Station Carry out and Lounge Phone number not available						
172.3R	Boat house BBQ (740) 373-3006	No	Yes	No	Yes	No	Refreshments and Bar
172.2R	<u>MUSKINGUM RIVER</u> (See Sheet 47-53)						
172.0L	City of Williamstown Launching Ramp	No	No	No	No	No	Launching ramp, parking
172.0R	City of Marietta River Front (740) 373-4474	No	No	No	No	No	Paved public landing.
156.2R	The Jug (740) 473-2518	No	Yes	No	No	No	Boat Dock
155.1R	Newport, Ohio Launching Ramp Phone number not available	No	No	No	No	No	Paved landing.

Ohio River Recreational Docks

Mile	Facility Name	Fuel	Restaurant	Groceries	Overnight Mooring	Lodging	Remarks
154.2R	<u>MIDDLE ISLAND</u> (See Sheet 53)						
149.9R	<u>LEITHS RUN</u> (See Sheet 53)						
146.9R	Public Access Site Wayne National Forrest 740/373-9055	No	No	No	No	No	Restrooms and Paved Landing Parking
137.9R	Ferry Landing	No	No	No	No	No	Paved landing
137.7L	Ferry Landing Mayor's Office	No	No	No	No	No	Paved landing (Ferry to Fly, Ohio)
133.3L	Paden City Launching Ramp Phone number not available	No	No	No	No	No	Launching ramp and parking.
129.5R	River Side, Golf Course and Carrie Out (740) 483-1536						
129.1R	Old Lock 15 Launching Ramp Phone number not available	No	No	No	No	No	No paved public landing.
128.4L	<u>FISHING CREEK</u> (See Sheet 53)						
128.2L	City of New Martinsville Launching Ramp (304) 455-9120 Mayor's Office						
128.0R	Valley Boat Dock, (614) 483-1703						

Ohio River Tributary Recreational Docks

Mile	Facility Name	Fuel	Restaurant	Groceries	Overnight Mooring	Lodging	Remarks
	<u>BULL SKIN CREEK</u>						
0.1L	B&B Launching Ramp (513) 876-3272	No	No	No	No	No	Launching ramp and parking Pay ---honor system
	<u>BRACKEN CREEK</u>						
0.0L	City of Augusta Launching Ramp and Dock (606) 756-2183 City Hall	No	No	No	No	No	Launching ramp, parking and restrooms
	<u>WHITE OAK CREEK</u>						
0.5R	White Oak Creek Launching Ramp (513) 417-0400	Yes	No	No	Yes	Yes	Camping available Closed from Oct 31-May 31
	<u>STRAIGHT CREEK</u>						
0.1L	Flotilla Boat Club Phone number not available						
0.1R	Straight Creek Marina (937) 392-1676	No	No	No	No	No	
0.2R	Tara Villa (937) 392-4801	Yes	No	No	Yes	Yes	Launching ramp, camping area and refreshments.
	<u>EAGLE CREEK</u>						
0.6R	Eagle Creek Boat Club (937) 684-5996	Yes	No	No	Yes	No	Refreshments.
0.5R	Eagle Creek Public Access Site (937) 392-4377 City Hall	No	No	No	No	No	

Ohio River Tributary Recreational Docks

Mile	Facility Name	Fuel	Restaurant	Groceries	Overnight Mooring	Lodging	Remarks
0.5R	Eagle Creek Boat Dock (937) 392-1440						
0.4R	Eagle Creek Marina (937) 392-1440	No	No	No	Yes	No	Launching ramp, parking and restrooms. Seasonal opening Spring to Fall.
<u>BRUSH CREEK</u>							
0.2R	Bush Creek Public Access Site (937) 549-3330 City Hall	No	No	No	No	No	Launching ramp, parking and restrooms.
<u>SALT LICK CREEK</u>							
0.2L	Vanceburg Public Access Site (606) 796-3044 City Hall	No	No	No	No	No	Launching ramp and parking
<u>KINNICONNICK CREEK</u>							
0.8R	Garrison Public Access Site (606) 473-7441 Greenup Lock	No	No	No	No	No	Launching ramp and parking
<u>NACE RUN</u>							
0.2R	Shawnee State Park Marina and Boat Ramp (740) 858-5061 or 341-8030	Yes	Yes	Yes	Yes	No	Launching ramp, parking and restrooms.
<u>GINAT RUN</u>							
0.2R	Public Access Site (740) 354-9779	No	No	No	No	No	Launching ramp, parking and restrooms.

Ohio River Tributary Recreational Docks

Mile	Facility Name	Fuel	Restaurant	Groceries	Overnight Mooring	Lodging	Remarks
0.2L	Holiday Point Marina (740) 354-9779	Yes	Yes	Yes	Yes	No	Refreshments, restroom, shower, electric and water. Service Department
<u>LITTLE SANDY RIVER</u>							
0.3L	Public Access Site (606) 473-7441 Greenup Locks	No	No	No	No	No	Launching ramp and parking
0.4L	Sandy Cove Marina Phone number not available	No	No	No	No	No	Repair facilities, restrooms, campsites and refreshments.
<u>POND RUN</u>							
0.1L	Worthington Boat Club Phone number not available	No	No	No	No	No	(Inactive)
<u>STORMS CREEK</u>							
0.3L	Ironton Boat Dock Phone number not available	Yes	No	No	Yes	No	Parking and restrooms.
<u>ICE CREEK</u>							
0.2R	Public Access Site Phone number not available						
<u>BIG SANDY RIVER</u>							
0.2R	City of Kenova Public Access Site Virginia Point (304) 453-1571 City Hall Virginia Point (304) 453-5555 Police	No	No	No	No	No	Parking and restrooms.

Ohio River Tributary Recreational Docks

Mile	Facility Name	Fuel	Restaurant	Groceries	Overnight Mooring	Lodging	Remarks
	<u>SYMMES CREEK</u>						
0.3L	Public Access Site (740) 867-5600 City Hall	No	No	No	No	No	Launching ramp and parking
	<u>INDIAN GUYAN CREEK</u>						
0.1R	Public Access Site (740) 867-5600 City Hall	No	No	No	No	No	(Inactive)
	<u>GUYANDOTTE RIVER</u>						
0.1R	Public Access Site (304) 696-5954 Park Board	No	No	No	No	No	Launching ramp, parking and restrooms.
	<u>CHICKAMAUGA CREEK</u>						
0.4L	Gallipolis Boat Club (740) 446-3262	Yes	No	Yes	Yes	No	Launching ramp, refreshments, showers and restrooms.
	<u>LEADING CREEK</u>						
0.7L	Public Access Site (740) 992-2705 City Hall	No	No	No	No	No	Launching ramp, parking and restrooms.
	<u>TOMBLESON RUN</u>						
0.1R	Larry's Locker Phone number not available	Yes	Yes	Yes	Yes	No	Tie-up at bank, camping.

Ohio River Tributary Recreational Docks

Mile	Facility Name	Fuel	Restaurant	Groceries	Overnight Mooring	Lodging	Remarks
<u>HOCKING RIVER</u>							
5.9L	Public Access Site Coolville (740) 378-6110 Belleville Lock	No	No	No	No	No	Launching ramp and parking.
1.0L	Rivers Bend Marina Phone number not available	Yes	No	Yes	Yes	No	Launching ramp, camping and refreshments.
<u>LITTLE KANAWHA RIVER</u>							
0.1R	City of Parkersburg (304) 424-8559	No	No	No	No	No	Launching ramp, parking and restrooms.
0.3L	Flotilla Inc. Phone number not available						
1.9R	Worthington Marina Phone number not available						
2.6L	Dockside marina Phone number not available						
4.5L	Adventure Pursuit Phone number not available	None	None	None	None	None	Recreational Site (Handicap Facility)

Ohio River Tributary Recreational Docks

Mile	Facility Name	Fuel	Restaurant	Groceries	Overnight Mooring	Lodging	Remarks
4.6L	Corral Boat Marina and Camp Grounds Phone number not available	Yes	Yes	No	Yes	No	Refreshments, camping, shower, and restroom.
4.7R	Guinns Marine Service (304) 464-5705						
<u>MUSKINGUM RIVER</u>		LOCKS AND DAMS ARE OPERATED AND MAINTAINED BY THE DIVISION OF PARKS, DEPARTMENT Resources, State of Ohio (740) 453-4377					
14.2L	Lowell, Lock #3 (740) 896-2296	No	No	No	Yes	No	Canal lock and Restrooms
5.8L	Devola, Lock #2 (740) 373-8603	No	No	No	No	No	Historical and Restrooms
2.5L	Best Western (740) 374-7211	No	No	No	Yes	Yes	Hotel guests only
2.0L	Publice Launching Ramp Phone number not available						
1.1L	Marietta Boat Club (740) 374-9066	Yes	No	No	Yes	No	Restrooms
0.9L	Indian Acres Park Phone number not available	No	No	No	Yes	No	Ramp and Restrooms

Ohio River Tributary Recreational Docks

Mile	Facility Name	Fuel	Restaurant	Groceries	Overnight Mooring	Lodging	Remarks
0.7L	Campus Martius Ohio River and W. P. Snyder Museums Phone number not available	No	No	No	Yes	No	Historical and Restrooms
0.7L	Valley Gem Sternwheeler (740) 373-7862	No	No	No	No	No	Packet Boat and Restrooms
0.5R	Marietta College Dock (740) 374-2233						
0.2L	Becky Thatcher Sternwheeler / Showboat Phone number not available						
0.1L	Marietta Harbor (740) 374-3600	Yes	No	No	Yes	No	Marina and Restrooms
0.0L	Lafayette Hotel (740) 373-5522	No	No	No	Yes	No	Historical and Restrooms
	<u>Middle Island</u>						
0.01	Public Launching Ramp Phone number not available						
0.04	City of St. Mary's Launching Ramp (304) 684-2401 City Hall	No	No	No	No	No	Back channel Middle Island Launching ramp, parking and restrooms

Ohio River Tributary Recreational Docks

Mile	Facility Name	Fuel	Restaurant	Groceries	Overnight Mooring	Lodging	Remarks
0.4R	<u>FISHING CREEK</u> Public Access Site (304) 455-9130	No	No	No	No	No	

Requests for maps or information should be addressed to:

U.S. Army Engineer District, Pittsburgh

200 William S. Moorhead Federal Building,
100 Liberty Avenue
Pittsburgh, PA 15222-4186
Phone: (412) 395-7500
Fax: (412) 644-2811
<http://www.lrp.usace.army.mil/nav/nav.htm>

Areas of Operation:

Ohio River Mile 0 – 127, Allegheny River, Monongahela River

Requests for maps or information should be addressed to:

U.S. Army Engineer District, Huntington

502 Eighth Street
Huntington, WV 25701
Phone: (304) 399-5353
Fax: (304) 399-5159
<http://www.lrh.usace.army.mil/navigation>

Areas of Operation:

Ohio River Mile 127 – 437, Kanawha River, Big Sandy River

Requests for maps or information should be addressed to:

U.S. Army Engineer District, Louisville

600 Martin Luther King Place
Louisville, KY 402002
Phone: (502) 315-6766
<http://www.lrl.usace.army.mil/optm/default.asp?mycategory=41>

Areas of Operation:

Ohio River Mile 437-981, Green River Mile 0-108

Requests for maps or information should be addressed to:

U.S. Army Engineer District, Nashville

P.O. Box 1070
Nashville, TN 37202-1070
Phone: (615) 736-7161
<http://www.lrn.usace.army.mil/>

Areas of Operation:

Cumberland River Mile 0 – 381, Tennessee River Mile 0 – 652,
Hiwassee River Mile 0 – 22, Clinch River Mile 0 – 62,
Tenn-Tombigbee Waterway Mile 444.5 - 450

Additional marine mapping products can be found at:

U.S. Army Topographic Engineering Center

7701 Telegraph Road
Alexandria, VA 22315-3864
Phone: (703) 428-6600
<http://www.tec.army.mil/echarts/>

REPORT OIL AND CHEMICAL SPILLS ANY TIME TO THE NATIONAL RESPONSE CENTER AT:
(TOLL FREE) 1-800-424-8802, (DIRECT) 202-267-2675, (ONLINE) <http://www.nrc.uscg.mil>