U.S. Army Corps
of Engineers
Louisville District

Ohio River Navigation Charts

Cairo, Illinois to Foster, Kentucky

MARCH 2014

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 Hale Boggs Federal Building 501 Magazine Street New Orleans, LA 70130-3396	Tel - (504) 589-6225 Tel - (504) 589-2994 Tel - (504) 589-2965	24 Hour Command Center Aids to Navigation Branch Bridge Branch

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

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

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

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

Commander USCG Sector Ohio Valley (SOHV) Room 421 Romano Mazzoli Federal Building 600 Dr. Martin Luther King, Jr. Place Louisville, KY 40202-2287	24 Hour Command Center Tel - (502) 779-5422 Fax - (502) 779-5402 Tel – (800) 253-7465

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

LOUISVILLE DISTRICT
CAIRO, ILLINOIS TO FOSTER, KENTUCKY

REVISED MARCH 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 "NOTICES TO NAVIGATION INTERESTS." CHART REVISIONS ARE ANTICIPATED AT THREE-YEAR INTERVALS. ANY INFORMATION CONCERNING CHANGES, CORRECTIONS, OR ADDITIONS TO THIS CHART BOOK SHOULD BE ADDRESSED TO:

U.S. ARMY CORPS OF ENGINEERS
ATTN: CELRL-OP-TM
600 DR. MARTIN LUTHER KING, JR. PLACE
LOUISVILLE, KY 40202

NAVIGATION CHARTS AND NOTICES

Navigation charts for the OHIO RIVER, within the limits of the LOUISVILLE DISTRICT, are available on our website at http://www.lrl.usace.army.mil for viewing and printing. Spiral-bound books are also available for purchase on the U.S. Government Printing Office website: http://bookstore.gpo.gov .

Notices to Navigation Interests, containing data on channel conditions and location of dredges, are issued as occasions demand. Request to be placed on the mailing list to receive these notices by writing to:

U.S. Army Corps of Engineers
Attn: CELRL-OP
600 Dr. Martin Luther King, Jr. Place
Louisville, KY 40202-0059

Charts of the Ohio River are as follows:
PITTSBURGH DISTRICT:
Mile 000.0 – 127.2

HUNTINGTON DISTRICT:
Mile 127.2 – 436.2

LOUISVILLE DISTRICT:
Mile 436.2 – 981.0

MILE POINTS

Mile points are shown on the charts at one mile intervals beginning with Mile 0 at Pittsburgh, PA (The Point).

BUOYS

Buoys used to mark channels in the Mississippi River System conform to the standard lateral system of buoyage 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.

Buoys should always be given as wide a berth in passing as possible consistent with the length and width of vessel or tow and the 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 buoyage, 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

The height of the highest fixed points 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.

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:

District Engineer
U.S. Army Engineer District, Louisville
Attn: CELRL-OP-F
600 Dr. Martin Luther King, Jr. Place
Louisville, KY 40202-0059

Inquiries may be made by telephone to:
(502)315-6733

VERTICAL CLEARANCE

Vertical clearances under bridges and aerial crossings are shown on back of charts preceding page showing respective features at project pool stage.

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

EXAMPLE - CSX R.R. Bridge (Chart 41)
(All Clearances are in feet)

RR Bridge Low Steel Elevation = 420.7
Evansville Gage "0" Elevation = 329.2

Current Gage Reading 43.0
Evansville "0" elevation 329.2
Water Surface elevation 372.2

RR Bridge Low Steel = 420.7
Water Surface el. = 372.2
Vertical Clearance = **48.5**

(Normal Pool Clearance)

Elevation of Low Steel = 420.7
Evansville Gage
Project Normal Pool Gage 12.8 = 342.0
Clearance at Normal Pool = **78.7**

(Using 1937 HW Readings)

Elevation of Low Steel = 420.7
1937 High Water (H.W.) 53.75
Current Reading - 43.00
(Distance in feet below H.W.)= 10.75
CSX R.R. Bridge:
1937 H.W. Clearance + 39.30
Current Clearance = **50.05**

1937 High Water (H.W.) Gage Reading		
GAGE		**READING**
Meldahl Lower Gage		75.50
Cincinnati, OH	Broadway	80.00
	U.S.W.B.	79.99
Markland Dam	Upper Gage	41.10
	Lower Gage	76.10
Madison, IN		72.30
McAlpine Dam	Upper Gage	52.15
	Lower Gage	85.44
Cannelton Dam	Upper Gage	34.00
	Lower Gage	60.40
Newburgh Dam	Upper Gage	40.00
	Lower Gage	58.00
Evansville, IN		53.75
Mt. Vernon, IN		59.15
John T. Myers Dam	Upper Gage	46.50
	Lower Gage	64.50
Smithland Dam	Upper Gage	39.90
	Lower Gage	61.90
Paducah, KY		60.50
Dam 52		62.30
Dam 53		64.00
Cairo, IL		59.50

WARNING
TO PLEASURE BOATERS AND FISHERMEN
WHO NAVIGATE ON THE OHIO RIVER

Areas immediately upstream and downstream of the navigation dams in the Louisville District have been designated **Restricted Areas**. See the Legend Sheet for symbols that mark Restricted Areas 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 tailwaters 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, Louisville District, “Ohio River Navigation Charts; Cairo, IL to Foster, KY.” 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 a 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:

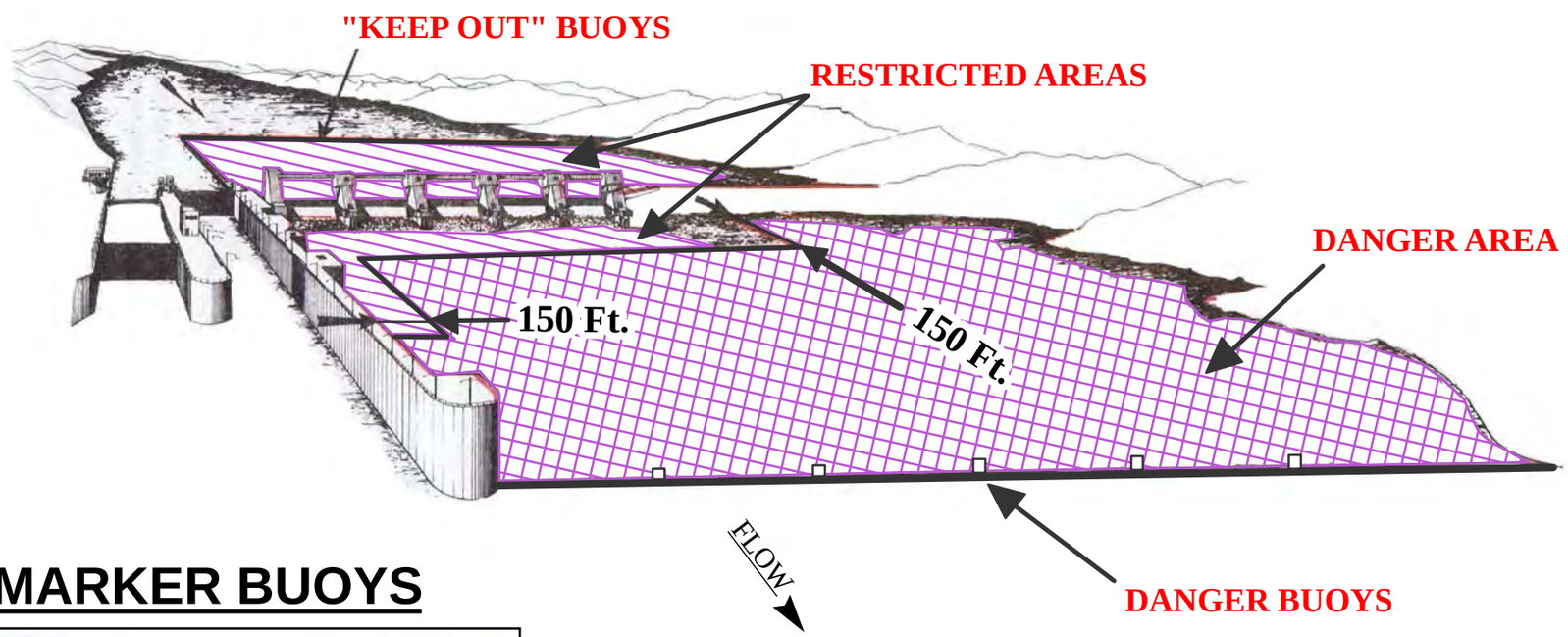
33 CFR 207.300 “(s) Restricted Areas at Locks and Dams. All waters immediately above and below each dam, as posted by the respective District Engineers, are hereby designated as Restricted Areas. No vessel or other floating craft shall enter any such Restricted area at any time. The limits of the restricted 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.”

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

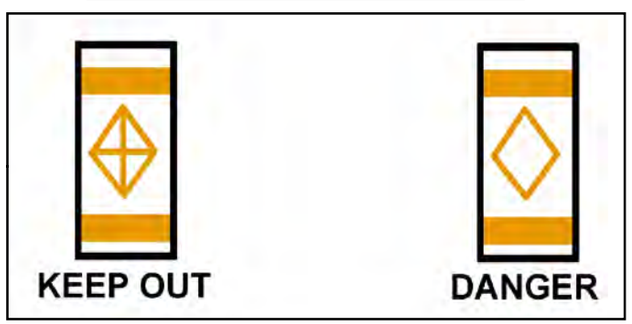
BE DAM CONSCIOUS!

WARNING

TO PLEASURE BOATERS AND FISHERMAN
WHO NAVIGATE ON THE OHIO RIVER



MARKER BUOYS



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:

I) 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.

II) 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.

(iii) Painting will not be permitted in the lock chamber 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:
I) 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.
II) 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.
III) 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.
IV) 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.
V) Any other activity on the waterways that could conceivably endanger navigation or a navigation structure shall be reported to the nearest lock.
VI) Whenever it is necessary to report an incident involving uncontrolled, sunken or sinking barges, the cargo in the barges shall be accurately identified.

d) Precedence at Locks
I) 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).

II) 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 Recreation 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 can not 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:

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

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:

I) 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.

II) 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. Vessel 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, (except those at Lock 3, Green River). 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 Ch. 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.

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
I) 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.
(ii) Mooring of unattended or non-propelled vessels or small craft at the upper or lower channel approaches will not be permitted within 1200 feet of the lock.

II) Outside of Locks
(i) No vessel 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 mattressed 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 vessel 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.

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 determine by the responsible District Engineer and marked by signs and/or flashing red lights installed in conspicuous and appropriate places.

t) Statistical Information
I) Masters of vessels shall furnish to the lockmaster such statistics of passengers or cargo as may be requested.
II) 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

I) 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° 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° 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° on each end (upstream and downstream) of the land (guide) wall.

II) 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° arranged in a vertical line on the upstream end of the river (guard) wall.

(ii) Two red lights visible through an arc of 360° 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° on each end (upstream and downstream) of the land (guide) wall.

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

IV) 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.

V) At Locks No. 1 and 2, Green River, when the locks are not in operation because of high river stages, a single red light visible through an arc of 360° will be displayed on each end (upstream and downstream) of the lock river (guard) wall at which time the lights referred to above will not be visible.

w) Navigation Lights for Use at Locks and Dams on the Green River

A single red light visible through an arc of 360° shall be displayed during hours of darkness at each end of the river wall or extending guard structures until these structures are awash.

x) Buoys at Movable Dams

I) 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.

II) 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 the current edition of appropriate navigation charts.

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, or 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 any 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

Secretary of War at his discretion, without liability for any damage to the owners of the same; PROVIDED, That in his discretion, the Secretary of War may cause reasonable notice of such obstruction of not less than thirty days, unless the legal abandonment of the obstruction can be established in less time, to be given by publication, addressed "To whom it may concern", in a newspaper published 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).

(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 specially 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 such 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 fall or refuse to reimburse the United States for such expense within thirty days after notification, then the officer or agent 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 of disposition of such vessel shall be deposited in the general fund of the Treasury of the United States.

U.S. Navigation Lights:

Daybeacons

USCG LIGHT & DAYMARK

WATER WORKS LIGHT &
DAYMARKS 792.0
FL G4s SG(U), SG(D)

Buoys:

- Can (Green)
- Nun (Red)
- Junction (Red/Green)
- Hazard (Lighted)

Arrival Point for Lockage — AP

Spot Elevations — +302

Mile Marker

Sailing Line

Secondary Sailing Line

Aerial Crossing

Submarine Crossing:

- Pipeline
- Cable

Commercial Docks:

- Cells
- Intake
- Diffusion Outfall Pipe
- Dolphin

Recreational Facilities:

- Launching Ramp
- Dock or Marina

Ordinary High Water Elevation: OHW 376.6

Miscellaneous:

- Coast Guard Station — CG
- Tank
- Tower
- Ferry
- Crane

Danger Area

Fleeting Area

Restricted Area

Flow Arrow

Federal Mooring Buoy

Gages

Ice Breaker

Land Features:

- Revetment/Rip Rap
- Swamp
- Levee/Flood Wall
- Rock Wall
- Dike (Top Elev. Shown) — DIKE, Elev. 317

Wrecks:

- Visible Wreck
- Submerged Wreck
- Submerged Wreck (Depth Known) — -6.5

Bottom Information:

Land Above Project Pool

Water, with Less Than 9' Depth at Project Pool

Water, with 9' or More Depth at Project Pool

Drying Height, Area that is Dry at Project Pool

Rock

State Boundary

County Boundary

North Arrow — N

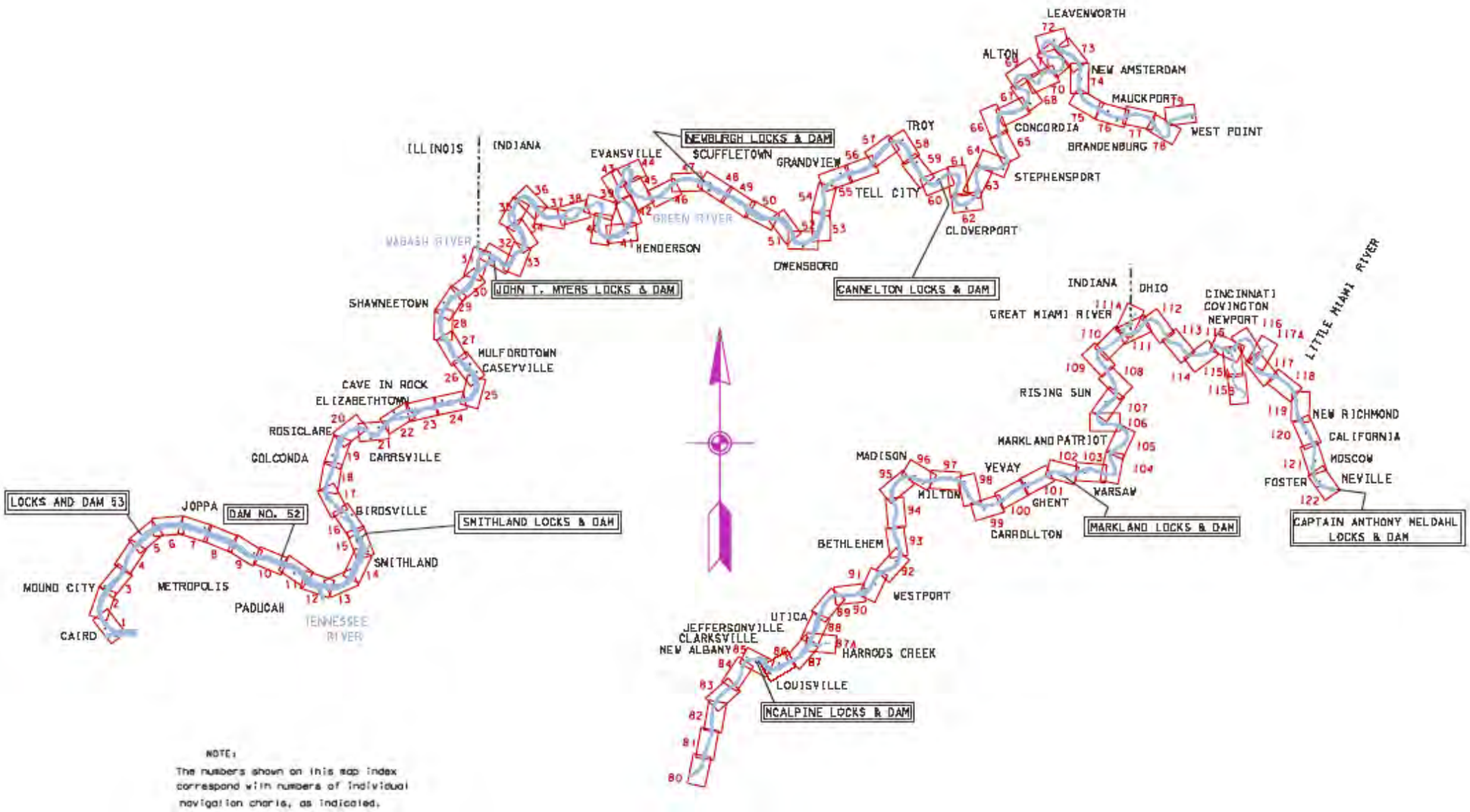
LEGEND

OHIO RIVER

LOUISVILLE DISTRICT

SHEET I

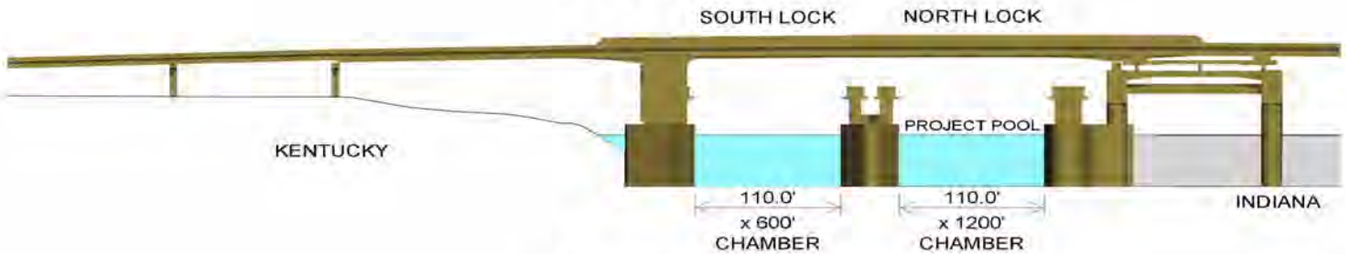
OHIO RIVER NAVIGATION CHARTS



UNITED STATES ARMY CORPS OF ENGINEERS – LOUISVILLE DISTRICT
CHART INDEX - SHEET J

Markland Locks Bridge

RIVER MILE 531.5

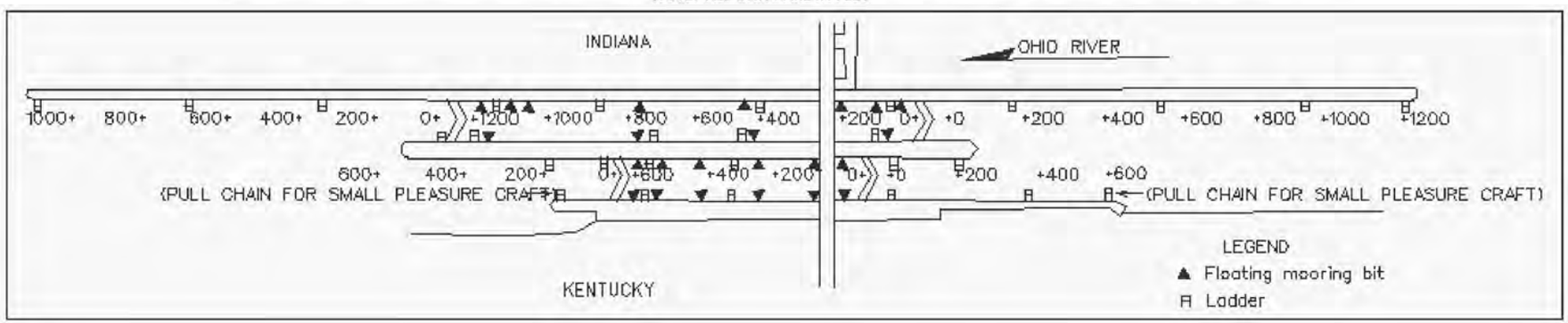


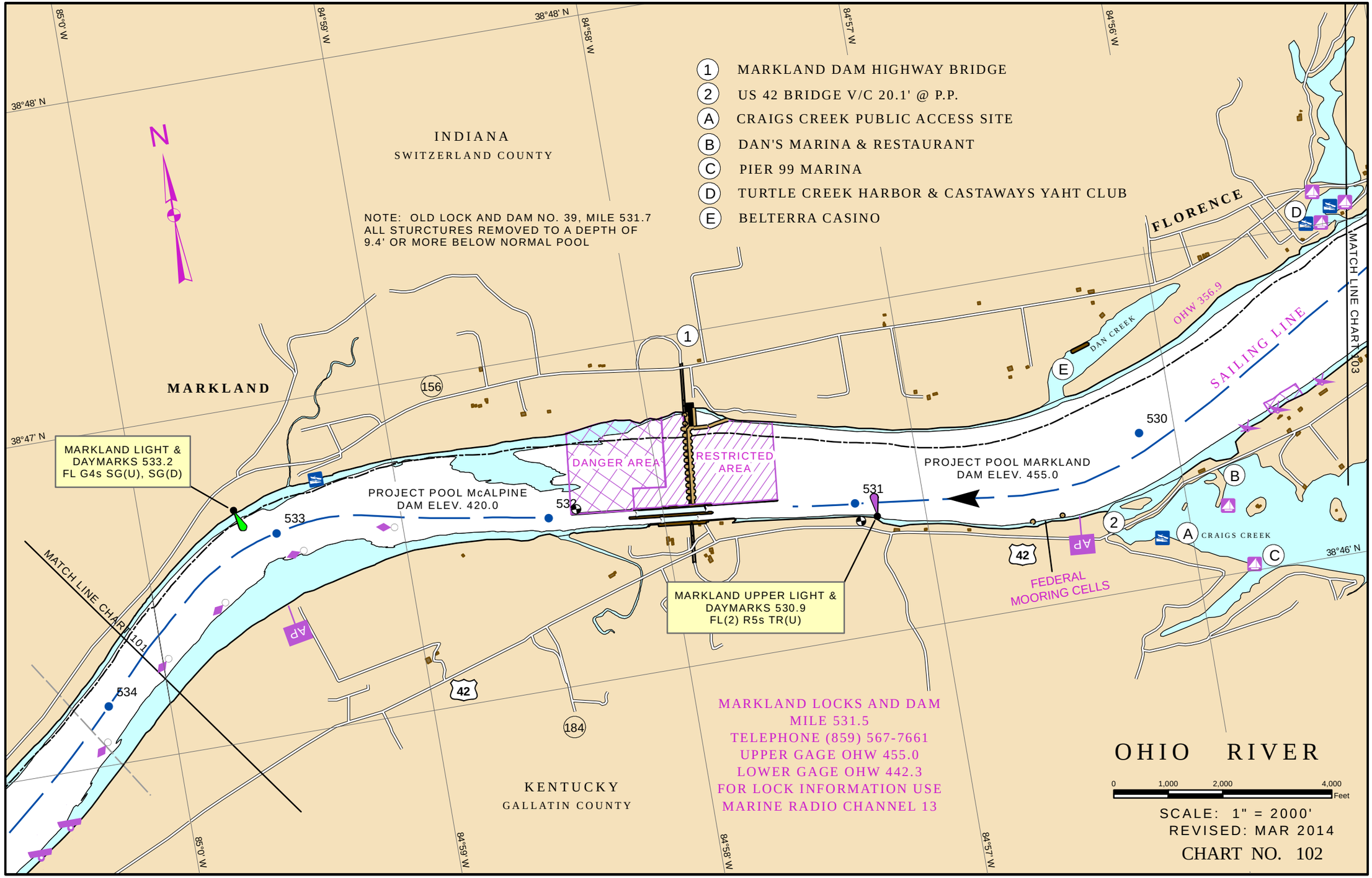
DOWNSTREAM VIEW

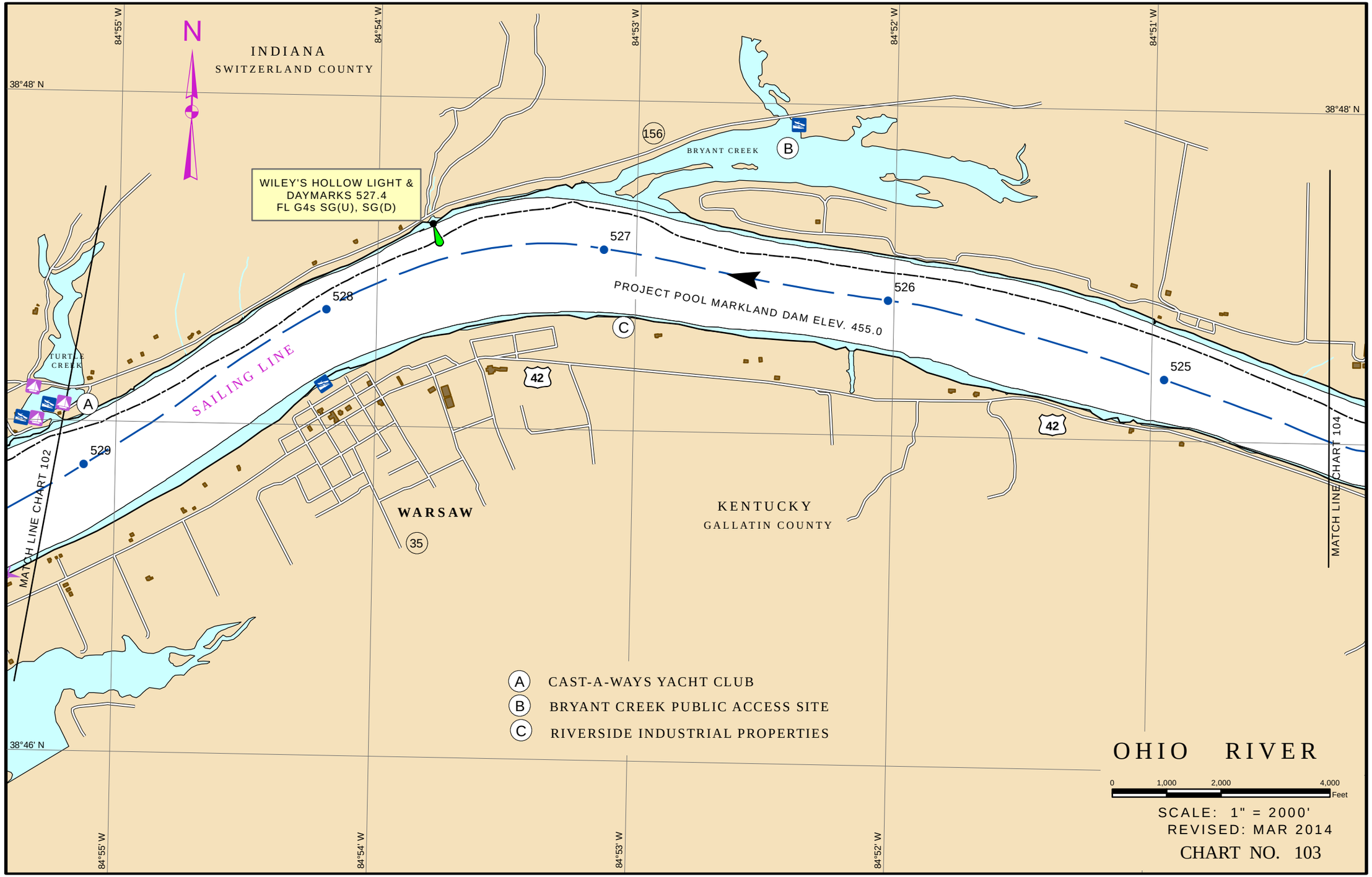
PROJECT POOL STAGE	
DATUM	ELEV.
OHIO RIVER DATUM	455.00
NGVD 29	454.26
NAVD 88	453.64

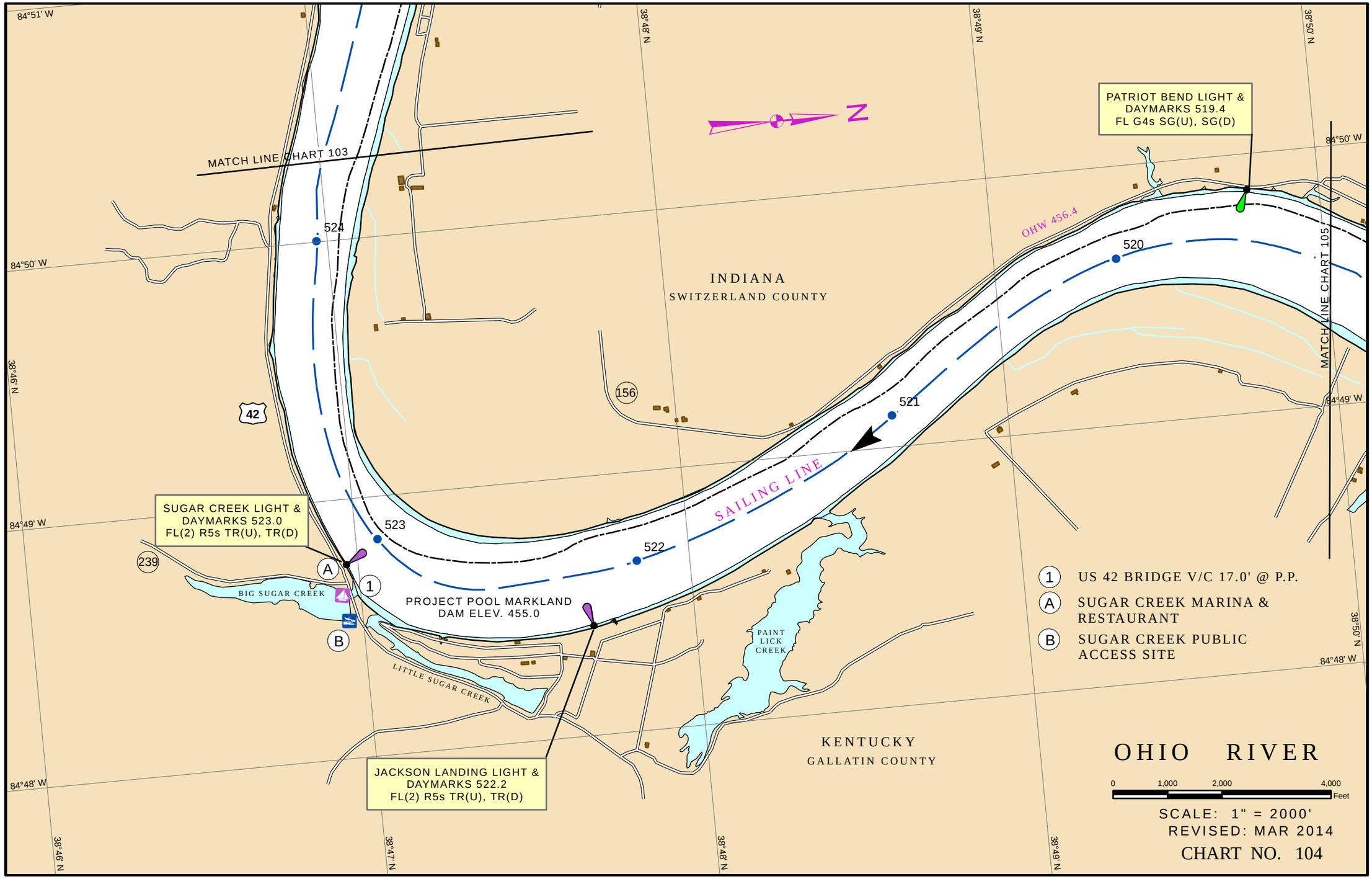
SOUTH LOCK									
VERTICAL DATUM	OHIO RIVER DATUM (ORD)			NGVD 29			NAVD 88		
LOCATION	LEFT PIER	CENTER	RIGHT PIER	LEFT PIER	CENTER	RIGHT PIER	LEFT PIER	CENTER	RIGHT PIER
ELEVATION OF LOW STEEL	525.9	526.9	527.4	525.1	526.1	526.6	524.5	525.5	526.0
VERT. CLEARANCE AT PROJECT POOL STAGE	70.9	71.9	72.4	70.9	71.9	72.4	70.9	71.9	72.4
NORTH LOCK									
VERTICAL DATUM	OHIO RIVER DATUM (ORD)			NGVD 29			NAVD 88		
LOCATION	LEFT PIER	CENTER	RIGHT PIER	LEFT PIER	CENTER	RIGHT PIER	LEFT PIER	CENTER	RIGHT PIER
ELEVATION OF LOW STEEL	527.6	527.8	527.5	526.8	527.0	526.7	526.2	526.4	526.1
VERT. CLEARANCE AT PROJECT POOL STAGE	72.6	72.8	72.5	72.6	72.8	72.5	72.6	72.8	72.5

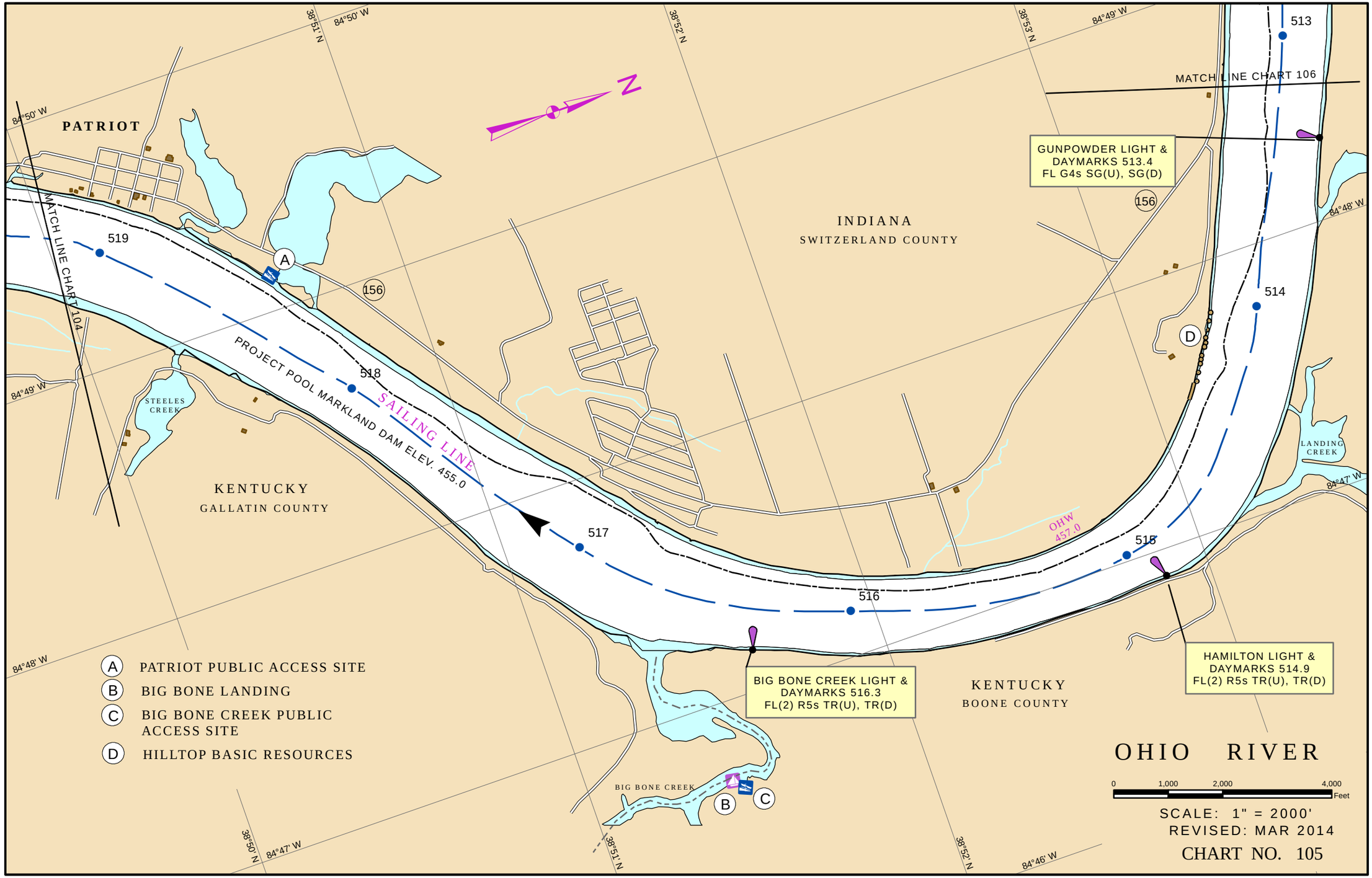
NOTE: ALL UNITS ARE IN FEET

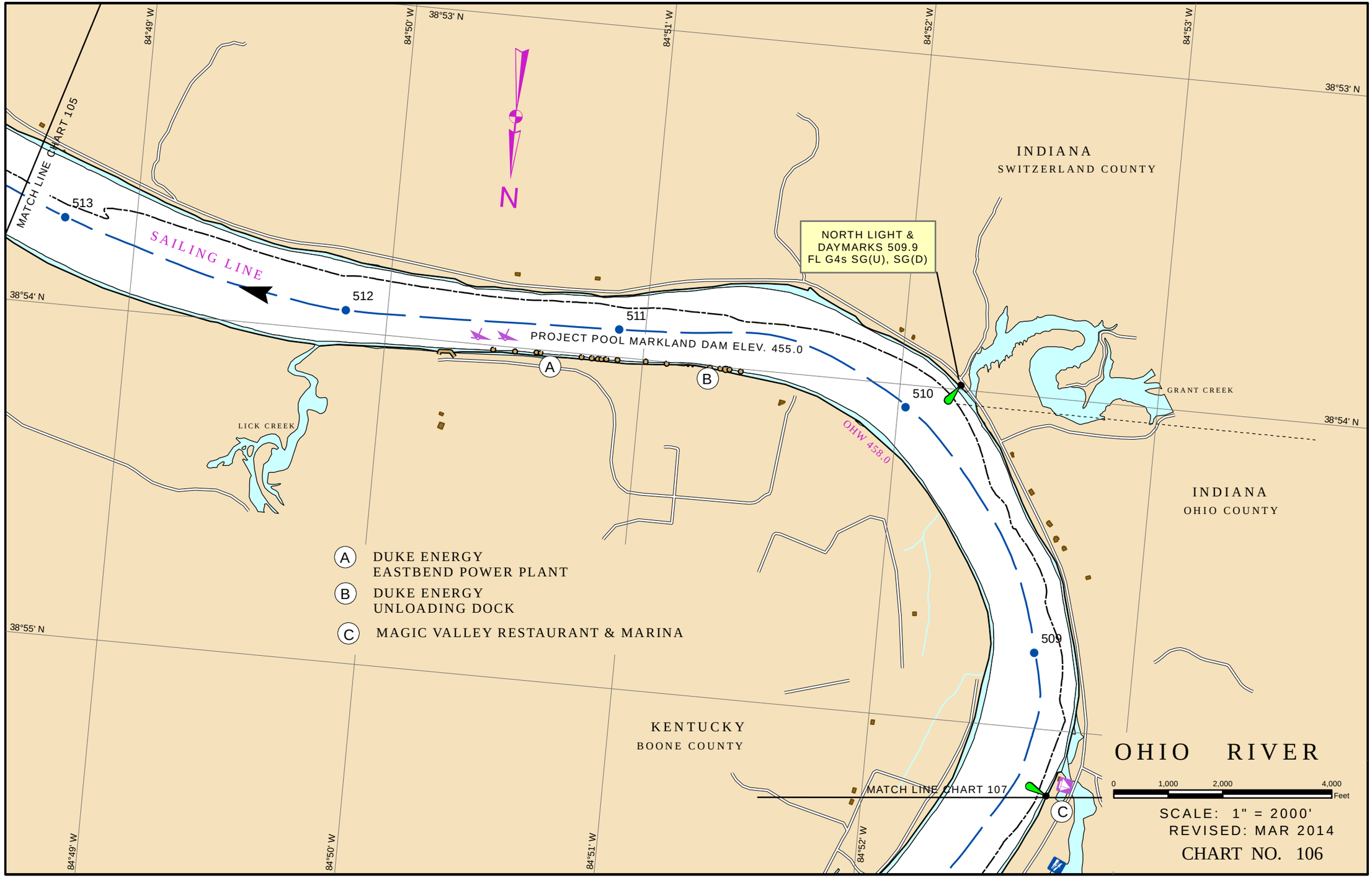


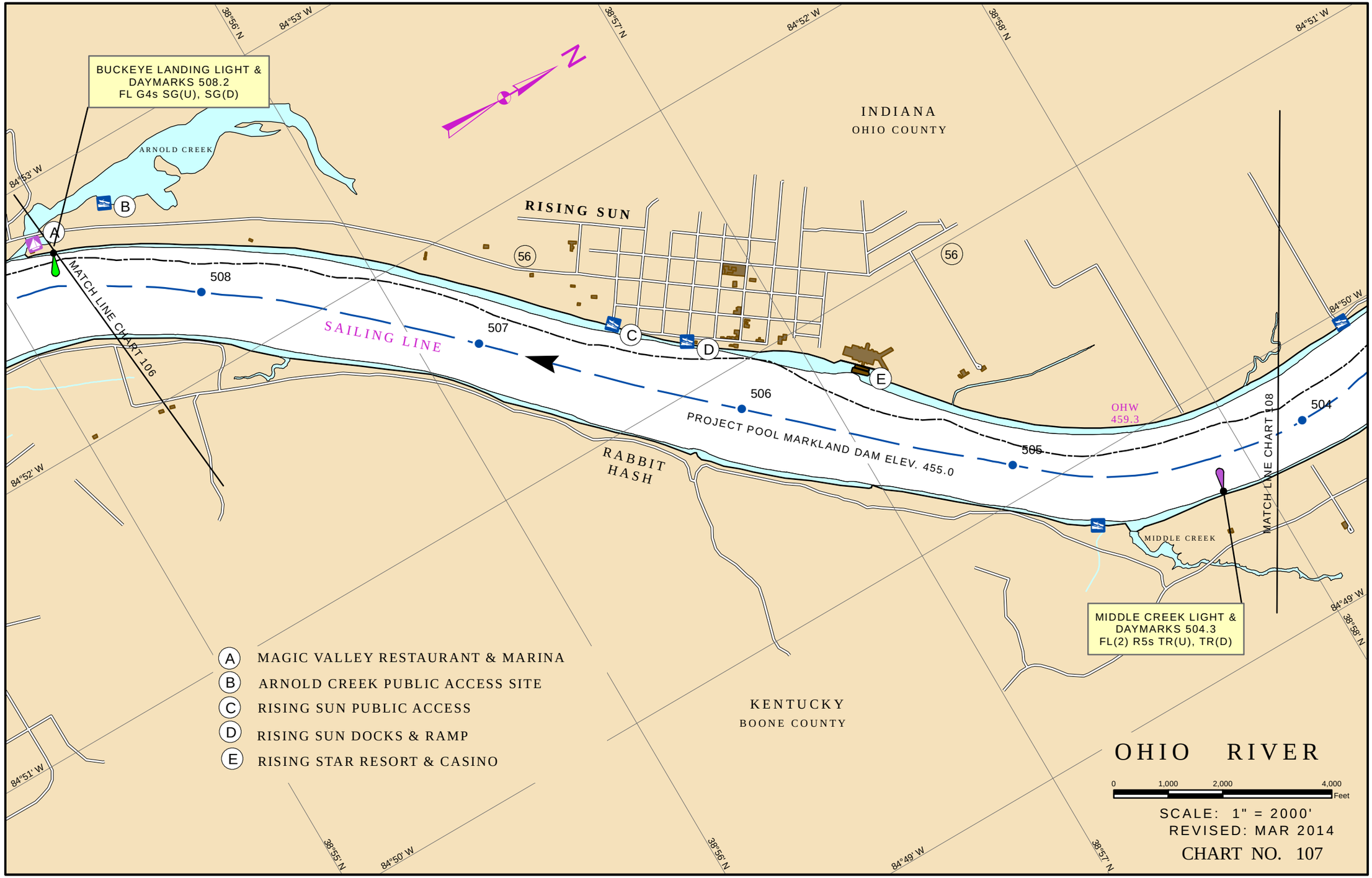

1 MARKLAND DAM HIGHWAY BRIDGE
2 US 42 BRIDGE V/C 20.1' @ P.P.
A CRAIGS CREEK PUBLIC ACCESS SITE
B DAN'S MARINA & RESTAURANT
C PIER 99 MARINA
D TURTLE CREEK HARBOR & CASTAWAYS YAHT CLUB
E BELTERRA CASINO
INDIANA
SWITZERLAND COUNTY
NOTE: OLD LOCK AND DAM NO. 39, MILE 531.7
ALL STURCTURES REMOVED TO A DEPTH OF
9.4' OR MORE BELOW NORMAL POOL
N
MARKLAND
FLORENCE
DAN CREEK
OHW 356.9
SAILING LINE
MATCH LINE CHART 103
MARKLAND LIGHT &
DAYMARKS 533.2
FL G4s SG(U), SG(D)
DANGER AREA
RESTRICTED AREA
PROJECT POOL McALPINE
DAM ELEV. 420.0
PROJECT POOL MARKLAND
DAM ELEV. 455.0
MARKLAND UPPER LIGHT &
DAYMARKS 530.9
FL(2) R5s TR(U)
FEDERAL
MOORING CELLS
CRAIGS CREEK
MATCH LINE CHART 101
533
532
531
530
534
156
42
184
AP
38°48' N
38°47' N
38°46' N
85°0' W
84°59' W
84°58' W
84°57' W
84°56' W
KENTUCKY
GALLATIN COUNTY
MARKLAND LOCKS AND DAM
MILE 531.5
TELEPHONE (859) 567-7661
UPPER GAGE OHW 455.0
LOWER GAGE OHW 442.3
FOR LOCK INFORMATION USE
MARINE RADIO CHANNEL 13
OHIO RIVER
0 1,000 2,000 4,000 Feet
SCALE: 1" = 2000'
REVISED: MAR 2014
CHART NO. 102

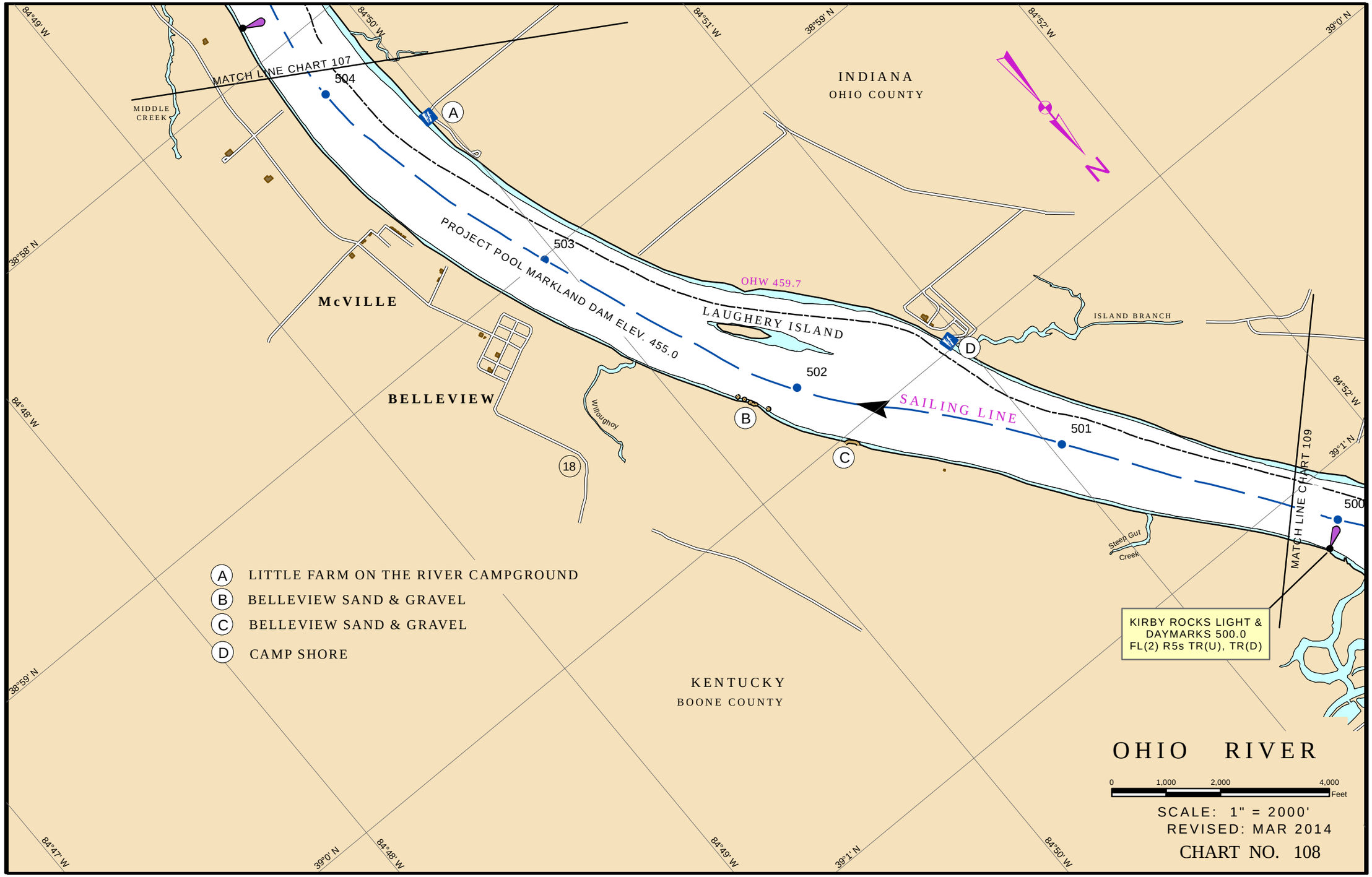

N
INDIANA
SWITZERLAND COUNTY
38°48' N
84°55' W
84°54' W
84°53' W
84°52' W
84°51' W
156
BRYANT CREEK
B
WILEY'S HOLLOW LIGHT &
DAYMARKS 527.4
FL G4s SG(U), SG(D)
527
528
526
525
529
PROJECT POOL MARKLAND DAM ELEV. 455.0
C
SAILING LINE
TURTLE CREEK
A
42
MATCH LINE CHART 102
MATCH LINE CHART 104
WARSAW
35
KENTUCKY
GALLATIN COUNTY
38°46' N
A CAST-A-WAYS YACHT CLUB
B BRYANT CREEK PUBLIC ACCESS SITE
C RIVERSIDE INDUSTRIAL PROPERTIES
OHIO RIVER
0 1,000 2,000 4,000 Feet
SCALE: 1" = 2000'
REVISED: MAR 2014
CHART NO. 103

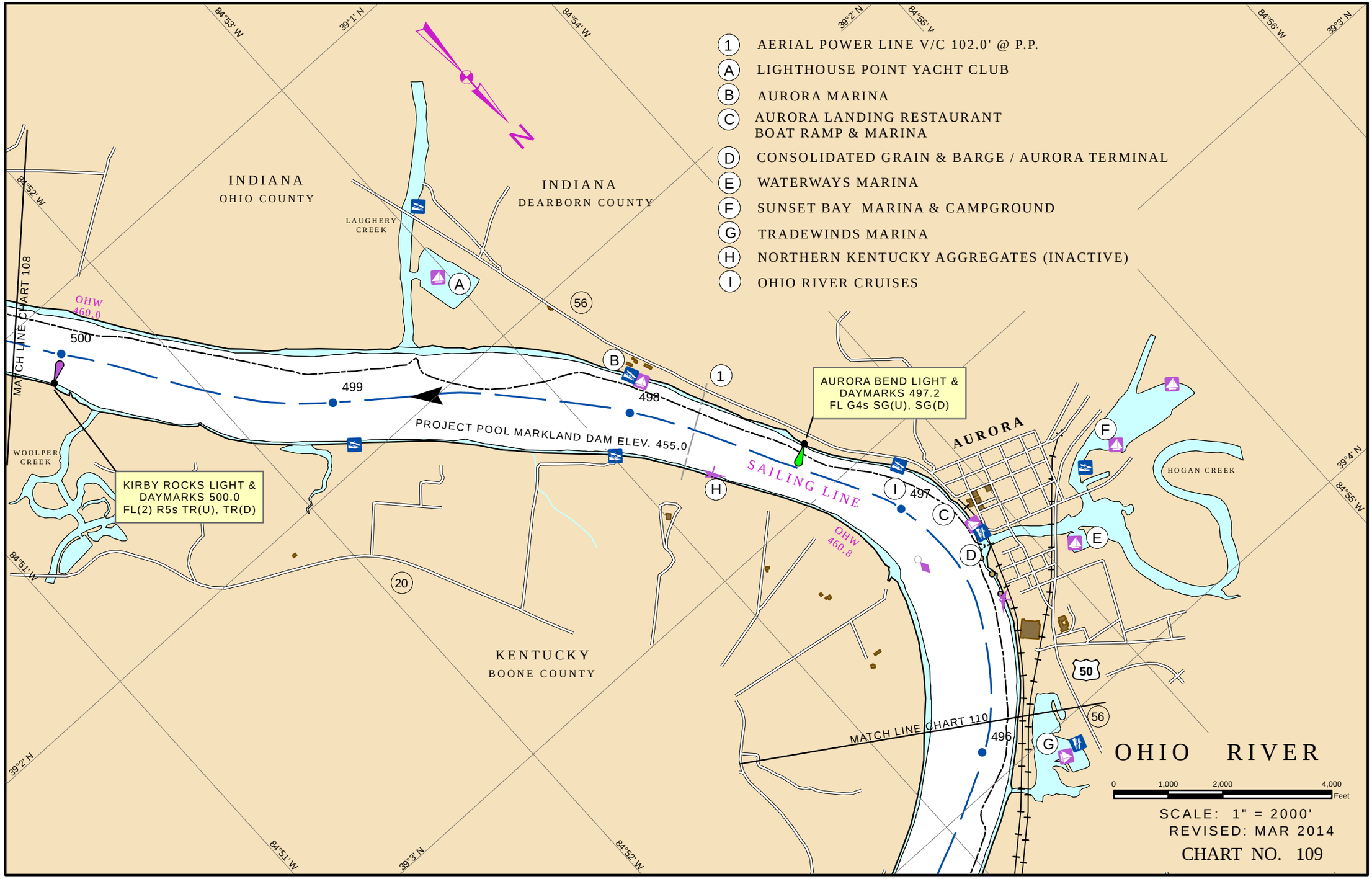

84°51' W
38°48' N
38°49' N
38°50' N
84°50' W
84°49' W
84°48' W
38°46' N
38°47' N
38°49' N
38°50' N
N
MATCH LINE CHART 103
MATCH LINE CHART 105
PATRIOT BEND LIGHT &
DAYMARKS 519.4
FL G4s SG(U), SG(D)
OHW 456.4
524
520
521
522
523
INDIANA
SWITZERLAND COUNTY
156
42
239
SAILING LINE
SUGAR CREEK LIGHT &
DAYMARKS 523.0
FL(2) R5s TR(U), TR(D)
A
1
B
BIG SUGAR CREEK
PROJECT POOL MARKLAND
DAM ELEV. 455.0
LITTLE SUGAR CREEK
PAINT
LICK
CREEK
KENTUCKY
GALLATIN COUNTY
JACKSON LANDING LIGHT &
DAYMARKS 522.2
FL(2) R5s TR(U), TR(D)
1 US 42 BRIDGE V/C 17.0' @ P.P.
A SUGAR CREEK MARINA & RESTAURANT
B SUGAR CREEK PUBLIC ACCESS SITE
OHIO RIVER
0 1,000 2,000 4,000 Feet
SCALE: 1" = 2000'
REVISED: MAR 2014
CHART NO. 104


PATRIOT
MATCH LINE CHART 104
MATCH LINE CHART 106
PROJECT POOL MARKLAND DAM ELEV. 455.0
SAILING LINE
STEELES CREEK
KENTUCKY
GALLATIN COUNTY
INDIANA
SWITZERLAND COUNTY
KENTUCKY
BOONE COUNTY
BIG BONE CREEK
LANDING CREEK
OHW 457.0
GUNPOWDER LIGHT & DAYMARKS 513.4 FL G4s SG(U), SG(D)
BIG BONE CREEK LIGHT & DAYMARKS 516.3 FL(2) R5s TR(U), TR(D)
HAMILTON LIGHT & DAYMARKS 514.9 FL(2) R5s TR(U), TR(D)
519
518
517
516
515
514
513
156
A PATRIOT PUBLIC ACCESS SITE
B BIG BONE LANDING
C BIG BONE CREEK PUBLIC ACCESS SITE
D HILLTOP BASIC RESOURCES
OHIO RIVER
0 1,000 2,000 4,000 Feet
SCALE: 1" = 2000'
REVISED: MAR 2014
CHART NO. 105


84°49' W
84°50' W
84°51' W
84°52' W
84°53' W
38°53' N
38°54' N
38°55' N
N
MATCH LINE CHART 105
513
512
511
510
509
SAILING LINE
PROJECT POOL MARKLAND DAM ELEV. 455.0
NORTH LIGHT &
DAYMARKS 509.9
FL G4s SG(U), SG(D)
OHW 458.0
INDIANA
SWITZERLAND COUNTY
INDIANA
OHIO COUNTY
KENTUCKY
BOONE COUNTY
GRANT CREEK
LICK CREEK
A DUKE ENERGY
EASTBEND POWER PLANT
B DUKE ENERGY
UNLOADING DOCK
C MAGIC VALLEY RESTAURANT & MARINA
MATCH LINE CHART 107
OHIO RIVER
0 1,000 2,000 4,000
Feet
SCALE: 1" = 2000'
REVISED: MAR 2014
CHART NO. 106

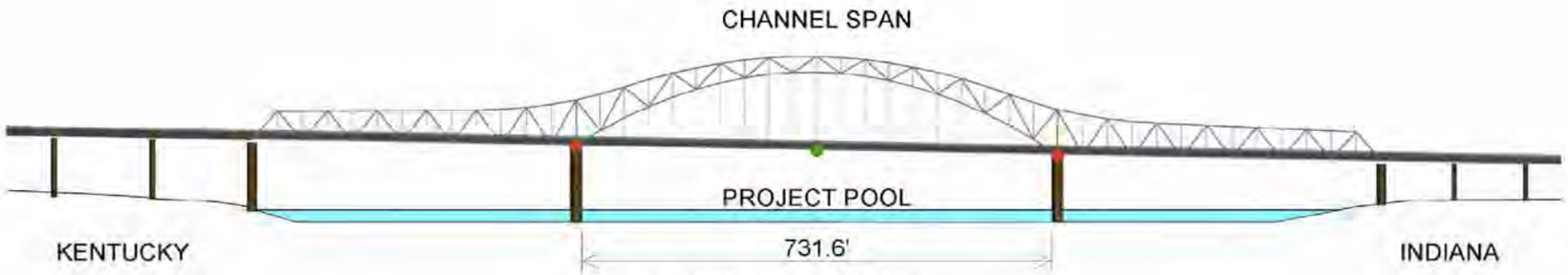

BUCKEYE LANDING LIGHT & DAYMARKS 508.2 FL G4s SG(U), SG(D)
ARNOLD CREEK
INDIANA
OHIO COUNTY
RISING SUN
56
MATCH LINE CHART 106
508
507
506
505
504
SAILING LINE
PROJECT POOL MARKLAND DAM ELEV. 455.0
OHW 459.3
RABBIT HASH
MIDDLE CREEK
MATCH LINE CHART 108
MIDDLE CREEK LIGHT & DAYMARKS 504.3 FL(2) R5s TR(U), TR(D)
A MAGIC VALLEY RESTAURANT & MARINA
B ARNOLD CREEK PUBLIC ACCESS SITE
C RISING SUN PUBLIC ACCESS
D RISING SUN DOCKS & RAMP
E RISING STAR RESORT & CASINO
KENTUCKY
BOONE COUNTY
38°56' N
84°53' W
38°57' N
84°52' W
38°58' N
84°51' W
84°50' W
84°49' W
38°55' N
38°59' N
OHIO RIVER
0 1,000 2,000 4,000 Feet
SCALE: 1" = 2000'
REVISED: MAR 2014
CHART NO. 107


84°49' W
84°50' W
84°51' W
38°59' N
84°52' W
39°0' N
38°58' N
84°48' W
38°59' N
84°47' W
39°0' N
84°48' W
84°49' W
39°1' N
84°50' W
84°52' W
39°1' N
MATCH LINE CHART 107
MIDDLE CREEK
504
A
INDIANA
OHIO COUNTY
N
503
PROJECT POOL MARKLAND DAM ELEV. 455.0
OHW 459.7
LAUGHERY ISLAND
McVILLE
ISLAND BRANCH
D
502
BELLEVIEW
Willoughby
B
SAILING LINE
501
C
18
MATCH LINE CHART 109
500
Steep Gut Creek
A LITTLE FARM ON THE RIVER CAMPGROUND
B BELLEVIEW SAND & GRAVEL
C BELLEVIEW SAND & GRAVEL
D CAMP SHORE
KIRBY ROCKS LIGHT &
DAYMARKS 500.0
FL(2) R5s TR(U), TR(D)
KENTUCKY
BOONE COUNTY
OHIO RIVER
0 1,000 2,000 4,000
Feet
SCALE: 1" = 2000'
REVISED: MAR 2014
CHART NO. 108


1 AERIAL POWER LINE V/C 102.0' @ P.P.
A LIGHTHOUSE POINT YACHT CLUB
B AURORA MARINA
C AURORA LANDING RESTAURANT BOAT RAMP & MARINA
D CONSOLIDATED GRAIN & BARGE / AURORA TERMINAL
E WATERWAYS MARINA
F SUNSET BAY MARINA & CAMPGROUND
G TRADEWINDS MARINA
H NORTHERN KENTUCKY AGGREGATES (INACTIVE)
I OHIO RIVER CRUISES
N
INDIANA
OHIO COUNTY
INDIANA
DEARBORN COUNTY
LAUGHERY CREEK
WOOLPER CREEK
HOGAN CREEK
AURORA
KENTUCKY
BOONE COUNTY
MATCH LINE CHART 108
MATCH LINE CHART 110
OHW 460.0
OHW 460.8
500
499
498
497
496
PROJECT POOL MARKLAND DAM ELEV. 455.0
SAILING LINE
AURORA BEND LIGHT & DAYMARKS 497.2 FL G4s SG(U), SG(D)
KIRBY ROCKS LIGHT & DAYMARKS 500.0 FL(2) R5s TR(U), TR(D)
56
20
50
84°53' W
84°54' W
84°55' W
84°56' W
84°52' W
84°51' W
39°1' N
39°2' N
39°3' N
39°4' N
0 1,000 2,000 4,000 Feet
OHIO RIVER
SCALE: 1" = 2000'
REVISED: MAR 2014
CHART NO. 109

I-275 Highway Bridge

RIVER MILE 491.6

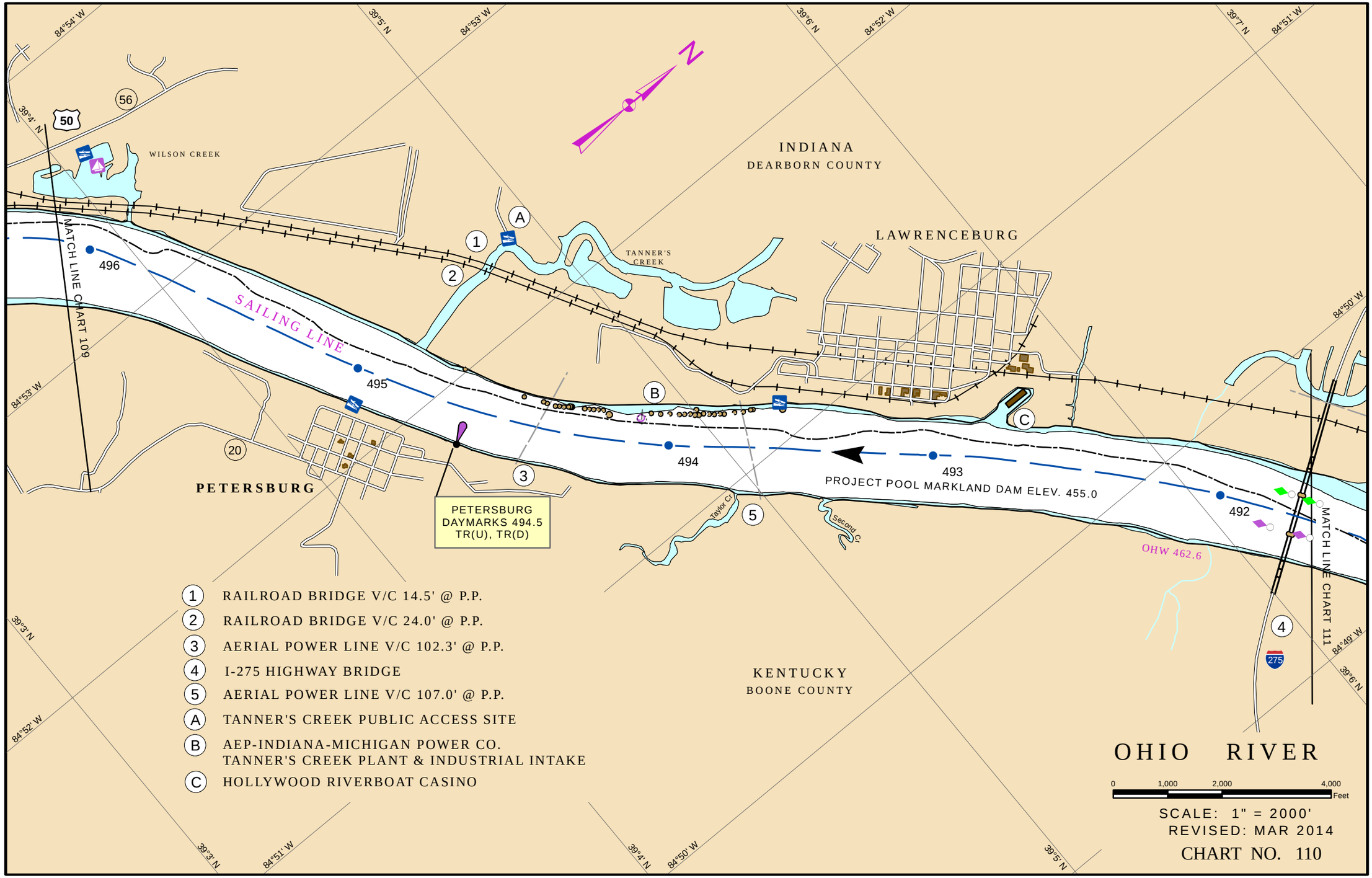


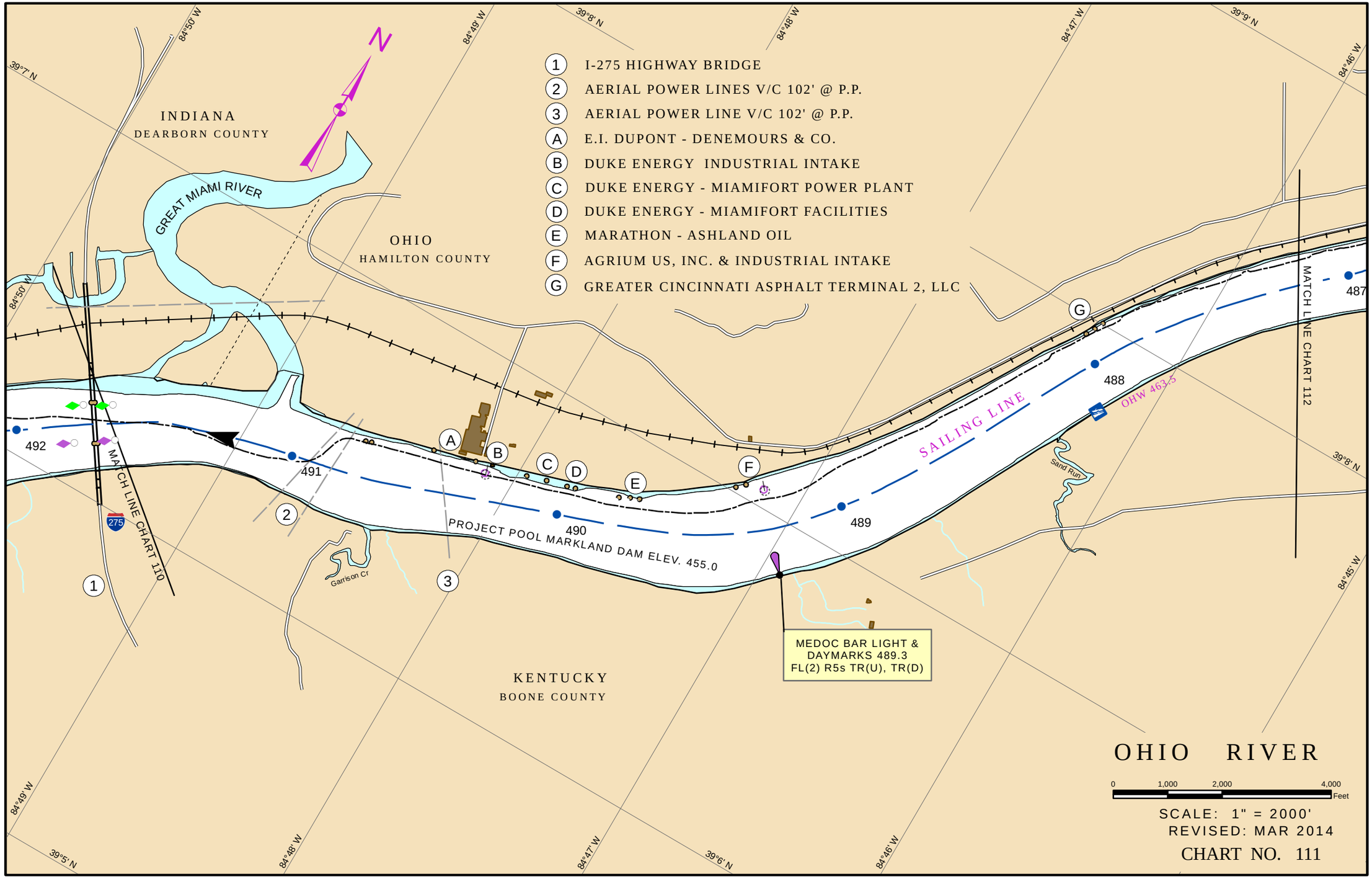
DOWNSTREAM VIEW

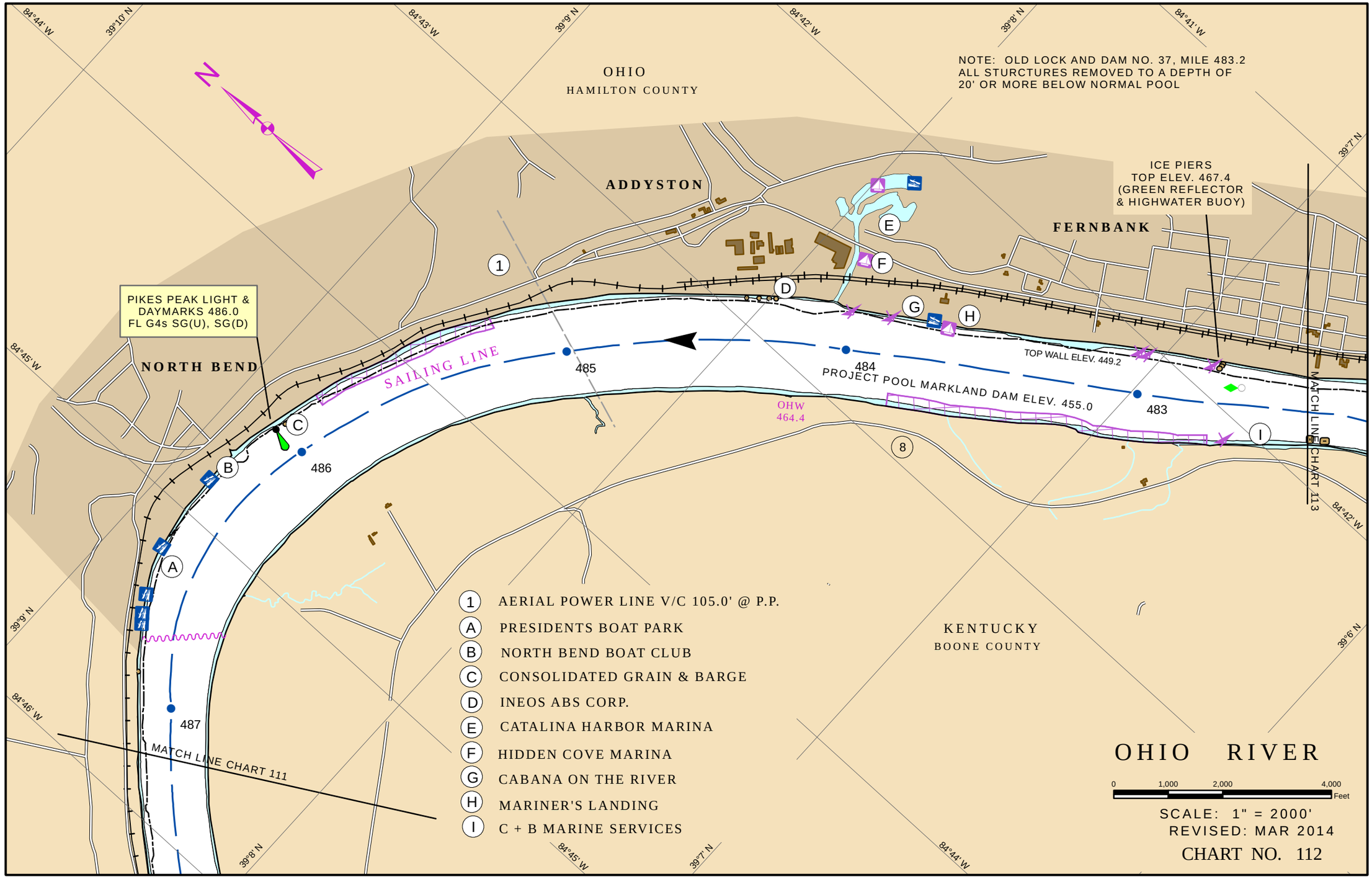
PROJECT POOL STAGE	
DATUM	**ELEV.**
OHIO RIVER DATUM	455.00
NGVD 29	454.21
NAVD 88	453.52

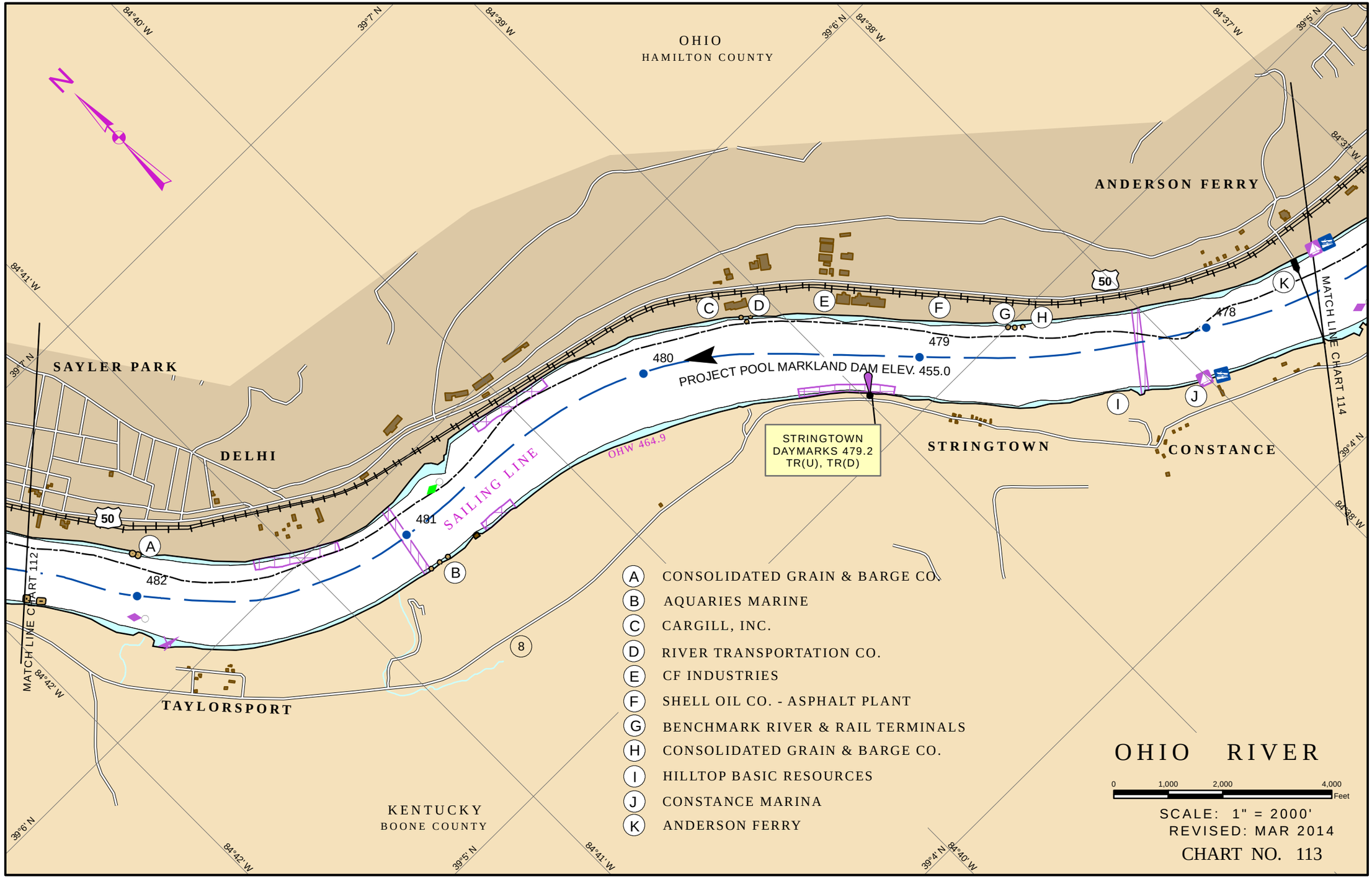
CHANNEL SPAN									
VERTICAL DATUM	**OHIO RIVER DATUM (ORD)**			**NGVD 29**			**NAVD 88**		
LOCATION	KY PIER	CENTER	IN PIER	KY PIER	CENTER	IN PIER	KY PIER	CENTER	IN PIER
ELEVATION OF LOW STEEL	560.1	553.2	546.3	559.3	552.4	545.5	558.6	551.7	544.8
VERT. CLEARANCE AT PROJECT POOL STAGE	105.1	98.2	91.3	105.1	98.2	91.3	105.1	98.2	91.3

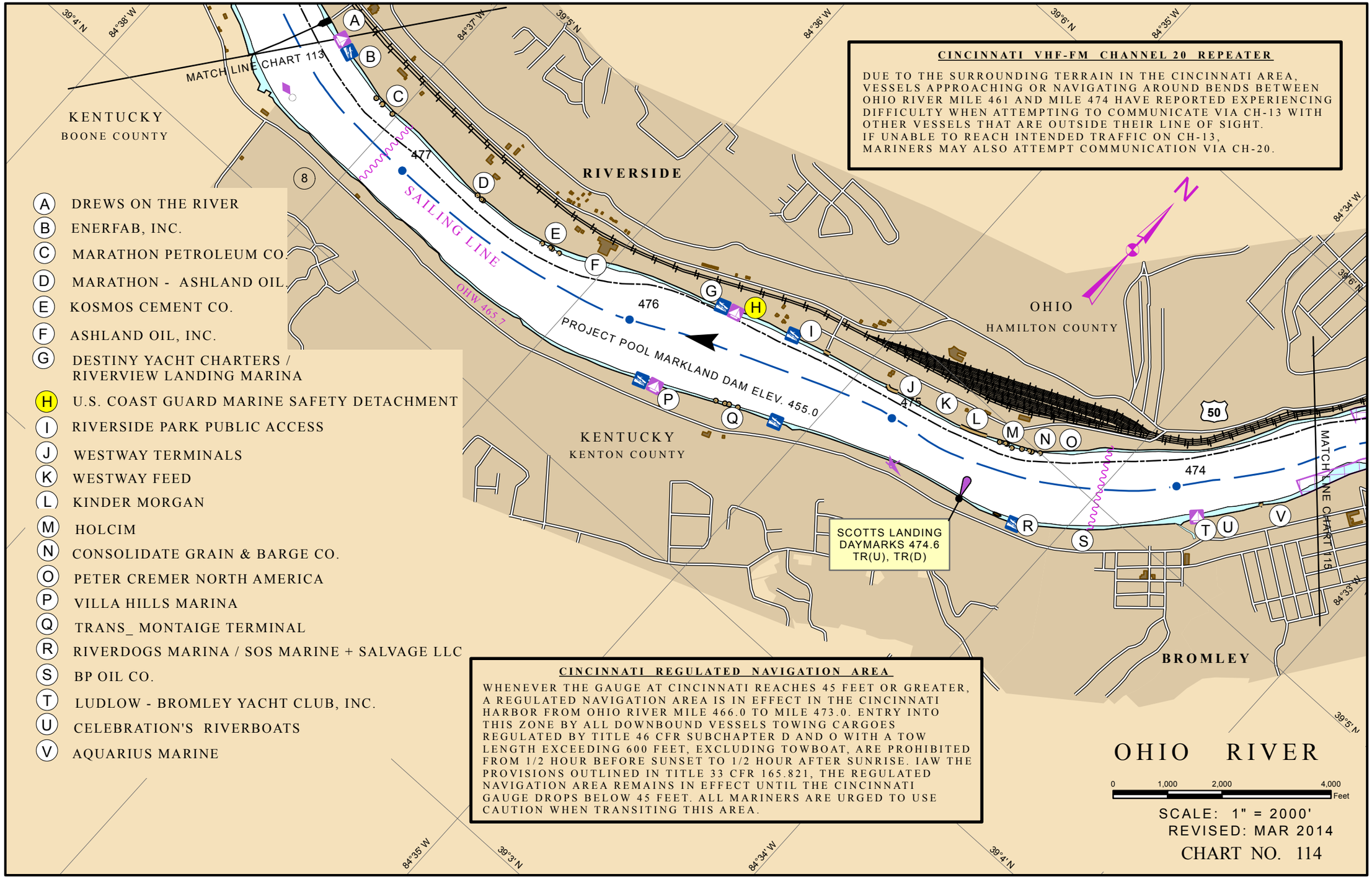
NOTE: ALL UNITS ARE IN FEET


INDIANA
DEARBORN COUNTY
LAWRENCEBURG
WILSON CREEK
TANNER'S CREEK
SAILING LINE
MATCH LINE CHART 109
MATCH LINE CHART 111
PETERSBURG
PETERSBURG DAYMARKS 494.5 TR(U), TR(D)
PROJECT POOL MARKLAND DAM ELEV. 455.0
OHW 462.6
Taylor Cr
Second Cr
KENTUCKY
BOONE COUNTY
496
495
494
493
492
1 RAILROAD BRIDGE V/C 14.5' @ P.P.
2 RAILROAD BRIDGE V/C 24.0' @ P.P.
3 AERIAL POWER LINE V/C 102.3' @ P.P.
4 I-275 HIGHWAY BRIDGE
5 AERIAL POWER LINE V/C 107.0' @ P.P.
A TANNER'S CREEK PUBLIC ACCESS SITE
B AEP-INDIANA-MICHIGAN POWER CO.
TANNER'S CREEK PLANT & INDUSTRIAL INTAKE
C HOLLYWOOD RIVERBOAT CASINO
OHIO RIVER
0 1,000 2,000 4,000 Feet
SCALE: 1" = 2000'
REVISED: MAR 2014
CHART NO. 110


1 I-275 HIGHWAY BRIDGE
2 AERIAL POWER LINES V/C 102' @ P.P.
3 AERIAL POWER LINE V/C 102' @ P.P.
A E.I. DUPONT - DENEMOURS & CO.
B DUKE ENERGY INDUSTRIAL INTAKE
C DUKE ENERGY - MIAMIFORT POWER PLANT
D DUKE ENERGY - MIAMIFORT FACILITIES
E MARATHON - ASHLAND OIL
F AGRIUM US, INC. & INDUSTRIAL INTAKE
G GREATER CINCINNATI ASPHALT TERMINAL 2, LLC
N
INDIANA
DEARBORN COUNTY
OHIO
HAMILTON COUNTY
KENTUCKY
BOONE COUNTY
GREAT MIAMI RIVER
Garrison Cr
Sand Run
SAILING LINE
OHW 463.5
PROJECT POOL MARKLAND DAM ELEV. 455.0
MATCH LINE CHART 110
MATCH LINE CHART 112
MEDOC BAR LIGHT &
DAYMARKS 489.3
FL(2) R5s TR(U), TR(D)
492
491
490
489
488
487
275
84°50' W
84°49' W
84°48' W
84°47' W
84°46' W
84°45' W
39°7' N
39°8' N
39°9' N
39°5' N
39°6' N
OHIO RIVER
0 1,000 2,000 4,000 Feet
SCALE: 1" = 2000'
REVISED: MAR 2014
CHART NO. 111


OHIO
HAMILTON COUNTY
NOTE: OLD LOCK AND DAM NO. 37, MILE 483.2
ALL STURCTURES REMOVED TO A DEPTH OF
20' OR MORE BELOW NORMAL POOL
ADDYSTON
FERNBANK
ICE PIERS
TOP ELEV. 467.4
(GREEN REFLECTOR
& HIGHWATER BUOY)
PIKES PEAK LIGHT &
DAYMARKS 486.0
FL G4s SG(U), SG(D)
NORTH BEND
SAILING LINE
TOP WALL ELEV. 449.2
PROJECT POOL MARKLAND DAM ELEV. 455.0
OHW
464.4
485
484
483
486
487
MATCH LINE CHART 113
MATCH LINE CHART 111
KENTUCKY
BOONE COUNTY
1 AERIAL POWER LINE V/C 105.0' @ P.P.
A PRESIDENTS BOAT PARK
B NORTH BEND BOAT CLUB
C CONSOLIDATED GRAIN & BARGE
D INEOS ABS CORP.
E CATALINA HARBOR MARINA
F HIDDEN COVE MARINA
G CABANA ON THE RIVER
H MARINER'S LANDING
I C + B MARINE SERVICES
OHIO RIVER
0 1,000 2,000 4,000 Feet
SCALE: 1" = 2000'
REVISED: MAR 2014
CHART NO. 112


OHIO
HAMILTON COUNTY
KENTUCKY
BOONE COUNTY
SAYLER PARK
DELHI
TAYLORSPORT
ANDERSON FERRY
STRINGTOWN
CONSTANCE
PROJECT POOL MARKLAND DAM ELEV. 455.0
STRINGTOWN
DAYMARKS 479.2
TR(U), TR(D)
SAILING LINE
OHW 464.9
MATCH LINE CHART 112
MATCH LINE CHART 114
482
481
480
479
478
50
8
A CONSOLIDATED GRAIN & BARGE CO.
B AQUARIES MARINE
C CARGILL, INC.
D RIVER TRANSPORTATION CO.
E CF INDUSTRIES
F SHELL OIL CO. - ASPHALT PLANT
G BENCHMARK RIVER & RAIL TERMINALS
H CONSOLIDATED GRAIN & BARGE CO.
I HILLTOP BASIC RESOURCES
J CONSTANCE MARINA
K ANDERSON FERRY
OHIO RIVER
0 1,000 2,000 4,000 Feet
SCALE: 1" = 2000'
REVISED: MAR 2014
CHART NO. 113


KENTUCKY
BOONE COUNTY
MATCH LINE CHART 113
RIVERSIDE
SAILING LINE
OIUW 465.7
PROJECT POOL MARKLAND DAM ELEV. 455.0
KENTUCKY
KENTON COUNTY
OHIO
HAMILTON COUNTY
BROMLEY
SCOTTS LANDING
DAYMARKS 474.6
TR(U), TR(D)
MATCH LINE CHART 115
477
476
475
474
8
50
N
39°4'N
84°38'W
84°37'W
39°5'N
84°36'W
39°6'N
84°35'W
84°34'W
39°3'N
84°33'N
A DREWS ON THE RIVER
B ENERFAB, INC.
C MARATHON PETROLEUM CO.
D MARATHON - ASHLAND OIL
E KOSMOS CEMENT CO.
F ASHLAND OIL, INC.
G DESTINY YACHT CHARTERS / RIVERVIEW LANDING MARINA
H U.S. COAST GUARD MARINE SAFETY DETACHMENT
I RIVERSIDE PARK PUBLIC ACCESS
J WESTWAY TERMINALS
K WESTWAY FEED
L KINDER MORGAN
M HOLCIM
N CONSOLIDATE GRAIN & BARGE CO.
O PETER CREMER NORTH AMERICA
P VILLA HILLS MARINA
Q TRANS_ MONTAIGE TERMINAL
R RIVERDOGS MARINA / SOS MARINE + SALVAGE LLC
S BP OIL CO.
T LUDLOW - BROMLEY YACHT CLUB, INC.
U CELEBRATION'S RIVERBOATS
V AQUARIUS MARINE
CINCINNATI VHF-FM CHANNEL 20 REPEATER
DUE TO THE SURROUNDING TERRAIN IN THE CINCINNATI AREA, VESSELS APPROACHING OR NAVIGATING AROUND BENDS BETWEEN OHIO RIVER MILE 461 AND MILE 474 HAVE REPORTED EXPERIENCING DIFFICULTY WHEN ATTEMPTING TO COMMUNICATE VIA CH-13 WITH OTHER VESSELS THAT ARE OUTSIDE THEIR LINE OF SIGHT. IF UNABLE TO REACH INTENDED TRAFFIC ON CH-13, MARINERS MAY ALSO ATTEMPT COMMUNICATION VIA CH-20.
CINCINNATI REGULATED NAVIGATION AREA
WHENEVER THE GAUGE AT CINCINNATI REACHES 45 FEET OR GREATER, A REGULATED NAVIGATION AREA IS IN EFFECT IN THE CINCINNATI HARBOR FROM OHIO RIVER MILE 466.0 TO MILE 473.0. ENTRY INTO THIS ZONE BY ALL DOWNBOUND VESSELS TOWING CARGOES REGULATED BY TITLE 46 CFR SUBCHAPTER D AND O WITH A TOW LENGTH EXCEEDING 600 FEET, EXCLUDING TOWBOAT, ARE PROHIBITED FROM 1/2 HOUR BEFORE SUNSET TO 1/2 HOUR AFTER SUNRISE. IAW THE PROVISIONS OUTLINED IN TITLE 33 CFR 165.821, THE REGULATED NAVIGATION AREA REMAINS IN EFFECT UNTIL THE CINCINNATI GAUGE DROPS BELOW 45 FEET. ALL MARINERS ARE URGED TO USE CAUTION WHEN TRANSITING THIS AREA.
OHIO RIVER
0 1,000 2,000 4,000 Feet
SCALE: 1" = 2000'
REVISED: MAR 2014
CHART NO. 114

CINCINNATI VHF-FM CHANNEL 20 REPEATER

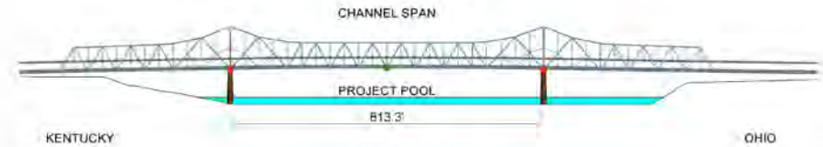
DUE TO THE SURROUNDING TERRAIN IN THE CINCINNATI AREA, VESSELS APPROACHING OR NAVIGATING AROUND BENDS BETWEEN OHIO RIVER MILE 461 AND MILE 474 HAVE REPORTED EXPERIENCING DIFFICULTY WHEN ATTEMPTING TO COMMUNICATE VIA CH-13 WITH OTHER VESSELS THAT ARE OUTSIDE THEIR LINE OF SIGHT. IF UNABLE TO REACH INTENDED TRAFFIC ON CH-13, MARINERS MAY ALSO ATTEMPT COMMUNICATION VIA CH-20.

CINCINNATI REGULATED NAVIGATION AREA

WHENEVER THE GAUGE AT CINCINNATI REACHES 45 FEET OR GREATER, A REGULATED NAVIGATION AREA IS IN EFFECT IN THE CINCINNATI HARBOR FROM OHIO RIVER MILE 466.0 TO MILE 473.0. ENTRY INTO THIS ZONE BY ALL DOWNBOUND VESSELS TOWING CARGOES REGULATED BY TITLE 46 CFR SUBCHAPTER D AND O WITH A TOW LENGTH EXCEEDING 600 FEET, EXCLUDING TOWBOAT, ARE PROHIBITED FROM 1/2 HOUR BEFORE SUNSET TO 1/2 HOUR AFTER SUNRISE. IAW THE PROVISIONS OUTLINED IN TITLE 33 CFR 165.821, THE REGULATED NAVIGATION AREA REMAINS IN EFFECT UNTIL THE CINCINNATI GAUGE DROPS BELOW 45 FEET. ALL MARINERS ARE URGED TO USE CAUTION WHEN TRANSITING THIS AREA.

Brent Spence Highway (I-75) Bridge

RIVER MILE 471.2



DOWNSTREAM VIEW

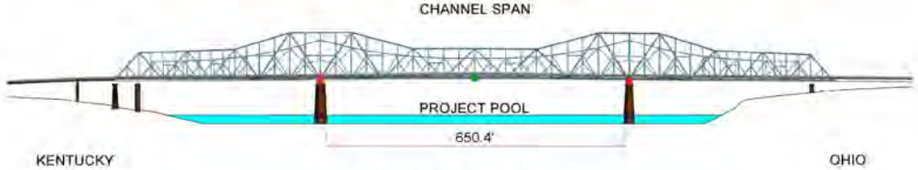
PROJECT POOL STAGE	
DATUM	ELEV.
OHIO RIVER DATUM	455.00
NGVD 29	454.27
NAVD 88	453.62

CHANNEL SPAN									
VERTICAL DATUM	OHIO RIVER DATUM (ORD)			NGVD 29			NAVD 88		
LOCATION	KY PIER	CENTER	OH PIER	KY PIER	CENTER	OH PIER	KY PIER	CENTER	OH PIER
ELEVATION OF LOW STEEL	532.3	535.3	532.5	531.6	534.6	531.8	530.9	533.9	531.1
VERT. CLEARANCE AT PROJECT POOL STAGE	77.3	80.3	77.5	77.3	80.3	77.5	77.3	80.3	77.5

NOTE: ALL UNITS ARE IN FEET

U.S. 25 Highway Bridge & Chessie RR Bridge

RIVER MILE 471.0



DOWNSTREAM VIEW

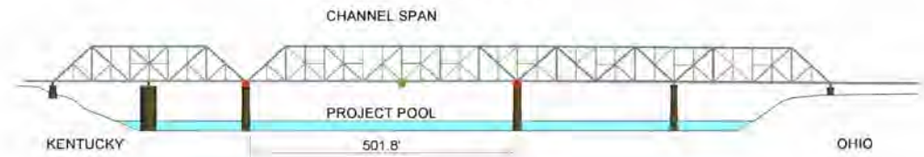
PROJECT POOL STAGE	
DATUM	ELEV.
OHIO RIVER DATUM	455.00
NGVD 29	454.27
NAVD 88	453.62

CHANNEL SPAN									
VERTICAL DATUM	OHIO RIVER DATUM (ORD)			NGVD 29			NAVD 88		
LOCATION	KY PIER	CENTER	OH PIER	KY PIER	CENTER	OH PIER	KY PIER	CENTER	OH PIER
ELEVATION OF LOW STEEL	537.5	539.8	537.1	536.8	539.1	536.4	536.1	538.4	535.7
VERT. CLEARANCE AT PROJECT POOL STAGE	82.5	84.8	82.1	82.5	84.8	82.1	82.5	84.8	82.1

NOTE: ALL UNITS ARE IN FEET

Cincinnati Southern RR Bridge

RIVER MILE 472.3

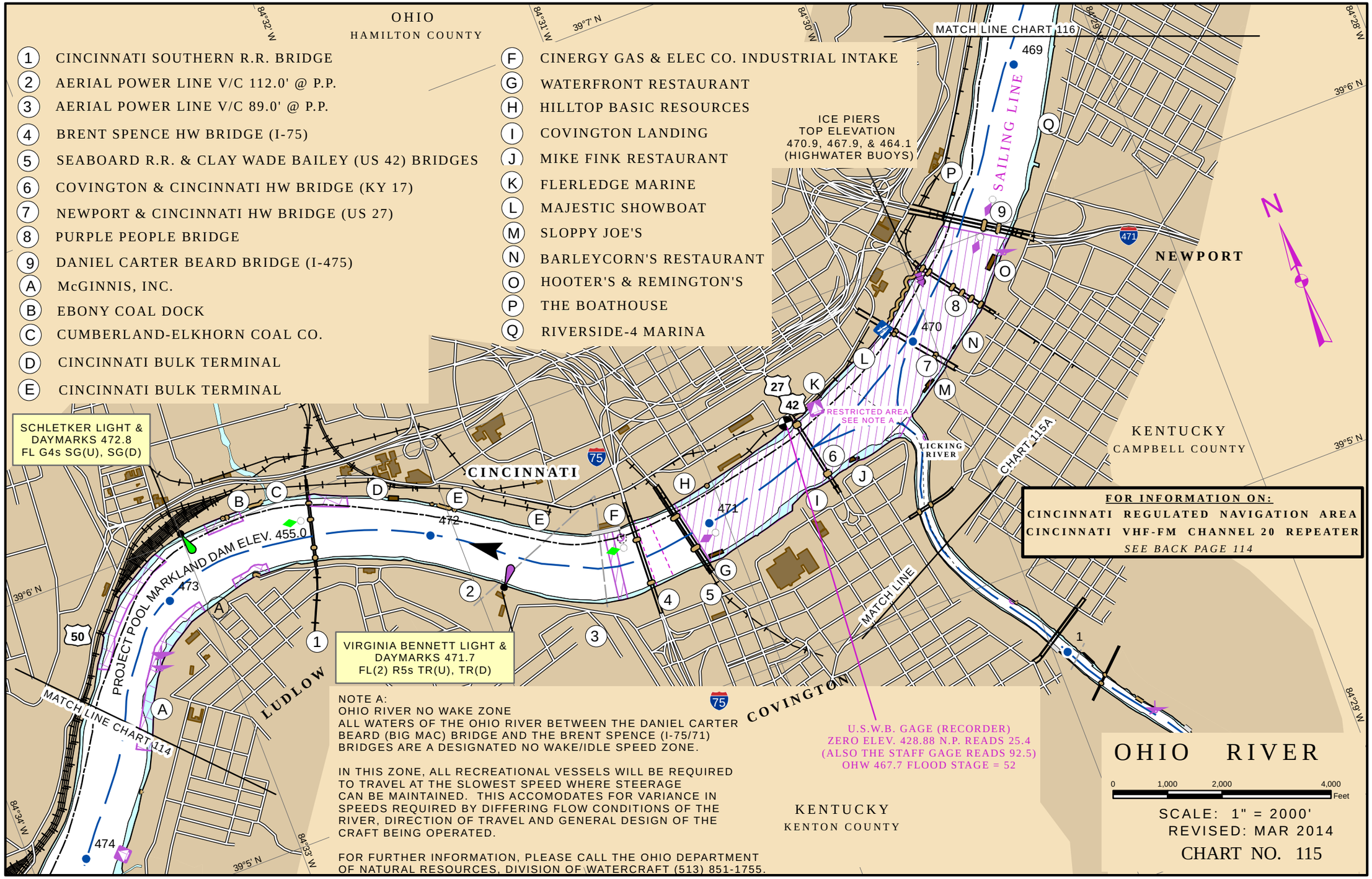


DOWNSTREAM VIEW

PROJECT POOL STAGE	
DATUM	ELEV.
OHIO RIVER DATUM	455.00
NGVD 29	454.27
NAVD 88	453.65

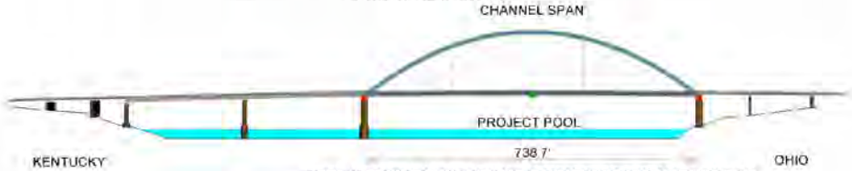
CHANNEL SPAN									
VERTICAL DATUM	OHIO RIVER DATUM (ORD)			NGVD 29			NAVD 88		
LOCATION	KY PIER	CENTER	OH PIER	KY PIER	CENTER	OH PIER	KY PIER	CENTER	OH PIER
ELEVATION OF LOW STEEL	533.8	533.9	534.1	533.0	533.1	533.3	532.4	532.5	532.7
VERT. CLEARANCE AT PROJECT POOL STAGE	78.8	78.9	79.1	78.8	78.9	79.1	78.8	78.9	79.1

NOTE: ALL UNITS ARE IN FEET


OHIO
HAMILTON COUNTY
1 CINCINNATI SOUTHERN R.R. BRIDGE
2 AERIAL POWER LINE V/C 112.0' @ P.P.
3 AERIAL POWER LINE V/C 89.0' @ P.P.
4 BRENT SPENCE HW BRIDGE (I-75)
5 SEABOARD R.R. & CLAY WADE BAILEY (US 42) BRIDGES
6 COVINGTON & CINCINNATI HW BRIDGE (KY 17)
7 NEWPORT & CINCINNATI HW BRIDGE (US 27)
8 PURPLE PEOPLE BRIDGE
9 DANIEL CARTER BEARD BRIDGE (I-475)
A McGINNIS, INC.
B EBONY COAL DOCK
C CUMBERLAND-ELKHORN COAL CO.
D CINCINNATI BULK TERMINAL
E CINCINNATI BULK TERMINAL
F CINERGY GAS & ELEC CO. INDUSTRIAL INTAKE
G WATERFRONT RESTAURANT
H HILLTOP BASIC RESOURCES
I COVINGTON LANDING
J MIKE FINK RESTAURANT
K FLERLEDGE MARINE
L MAJESTIC SHOWBOAT
M SLOPPY JOE'S
N BARLEYCORN'S RESTAURANT
O HOOTER'S & REMINGTON'S
P THE BOATHOUSE
Q RIVERSIDE-4 MARINA
MATCH LINE CHART 116
ICE PIERS
TOP ELEVATION
470.9, 467.9, & 464.1
(HIGHWATER BUOYS)
SAILING LINE
NEWPORT
KENTUCKY
CAMPBELL COUNTY
RESTRICTED AREA
SEE NOTE A
LICKING RIVER
CHART 115A
SCHLETKER LIGHT &
DAYMARKS 472.8
FL G4s SG(U), SG(D)
CINCINNATI
PROJECT POOL MARKLAND DAM ELEV. 455.0
VIRGINIA BENNETT LIGHT &
DAYMARKS 471.7
FL(2) R5s TR(U), TR(D)
LUDLOW
COVINGTON
MATCH LINE
MATCH LINE CHART 114
FOR INFORMATION ON:
CINCINNATI REGULATED NAVIGATION AREA
CINCINNATI VHF-FM CHANNEL 20 REPEATER
SEE BACK PAGE 114
NOTE A:
OHIO RIVER NO WAKE ZONE
ALL WATERS OF THE OHIO RIVER BETWEEN THE DANIEL CARTER BEARD (BIG MAC) BRIDGE AND THE BRENT SPENCE (I-75/71) BRIDGES ARE A DESIGNATED NO WAKE/IDLE SPEED ZONE.
IN THIS ZONE, ALL RECREATIONAL VESSELS WILL BE REQUIRED TO TRAVEL AT THE SLOWEST SPEED WHERE STEERAGE CAN BE MAINTAINED. THIS ACCOMODATES FOR VARIANCE IN SPEEDS REQUIRED BY DIFFERING FLOW CONDITIONS OF THE RIVER, DIRECTION OF TRAVEL AND GENERAL DESIGN OF THE CRAFT BEING OPERATED.
FOR FURTHER INFORMATION, PLEASE CALL THE OHIO DEPARTMENT OF NATURAL RESOURCES, DIVISION OF WATERCRAFT (513) 851-1755.
U.S.W.B. GAGE (RECORDER)
ZERO ELEV. 428.88 N.P. READS 25.4
(ALSO THE STAFF GAGE READS 92.5)
OHW 467.7 FLOOD STAGE = 52
KENTUCKY
KENTON COUNTY
OHIO RIVER
0 1,000 2,000 4,000 Feet
SCALE: 1" = 2000'
REVISED: MAR 2014
CHART NO. 115

Daniel Carter Beard Hwy (I-471) Bridge

RIVER MILE 469.5



NOTE: HORIZONTAL CLEARANCE IS MEASURED FROM PIER TO PIER

DOWNSTREAM VIEW

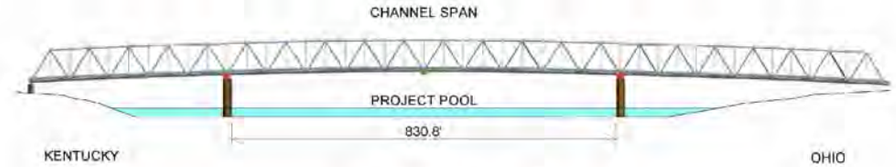
PROJECT POOL STAGE	
DATUM	ELEV.
OHIO RIVER DATUM	455.00
NGVD 29	454.27
NAVD 88	453.62

CHANNEL SPAN									
VERTICAL DATUM	OHIO RIVER DATUM (ORD)			NGVD 29			NAVD 88		
LOCATION	KY PIER	CENTER	OH PIER	KY PIER	CENTER	OH PIER	KY PIER	CENTER	OH PIER
ELEVATION OF LOW STEEL	534.4	536.8	534.6	533.6	536.0	533.8	533.0	535.4	533.2
VERT. CLEARANCE AT PROJECT POOL STAGE	79.4	81.8	79.6	79.4	81.8	79.6	79.4	81.8	79.6

NOTE: ALL UNITS ARE IN FEET

Taylor-Southgate Hwy Bridge (US 27)

RIVER MILE 469.9



DOWNSTREAM VIEW

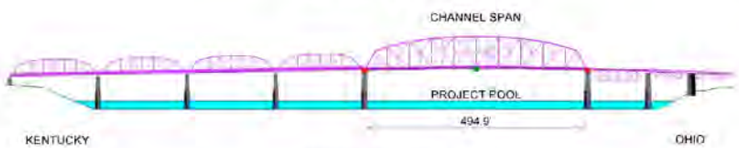
PROJECT POOL STAGE	
DATUM	ELEV.
OHIO RIVER DATUM	455.00
NGVD 29	454.27
NAVD 88	453.61

CHANNEL SPAN									
VERTICAL DATUM	OHIO RIVER DATUM (ORD)			NGVD 29			NAVD 88		
LOCATION	KY PIER	CENTER	OH PIER	KY PIER	CENTER	OH PIER	KY PIER	CENTER	OH PIER
ELEVATION OF LOW STEEL	531.0	538.0	530.9	530.3	537.3	530.2	529.6	536.6	529.5
VERT. CLEARANCE AT PROJECT POOL STAGE	76.0	83.0	75.9	76.0	83.0	75.9	76.0	83.0	75.9

NOTE: ALL UNITS ARE IN FEET

Purple People Bridge

RIVER MILE 469.7



DOWNSTREAM VIEW

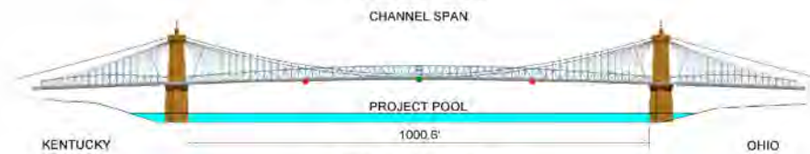
PROJECT POOL STAGE	
DATUM	ELEV.
OHIO RIVER DATUM	455.00
NGVD 29	454.27
NAVD 88	453.62

CHANNEL SPAN									
VERTICAL DATUM	OHIO RIVER DATUM (ORD)			NGVD 29			NAVD 88		
LOCATION	KY PIER	CENTER	OH PIER	KY PIER	CENTER	OH PIER	KY PIER	CENTER	OH PIER
ELEVATION OF LOW STEEL	530.3	533.9	530.5	529.6	533.2	529.8	528.9	532.5	529.1
VERT. CLEARANCE AT PROJECT POOL STAGE	75.3	78.9	75.5	75.3	78.9	75.5	75.3	78.9	75.5

NOTE: ALL UNITS ARE IN FEET

Covington & Cincinnati Hwy Bridge

RIVER MILE 470.5

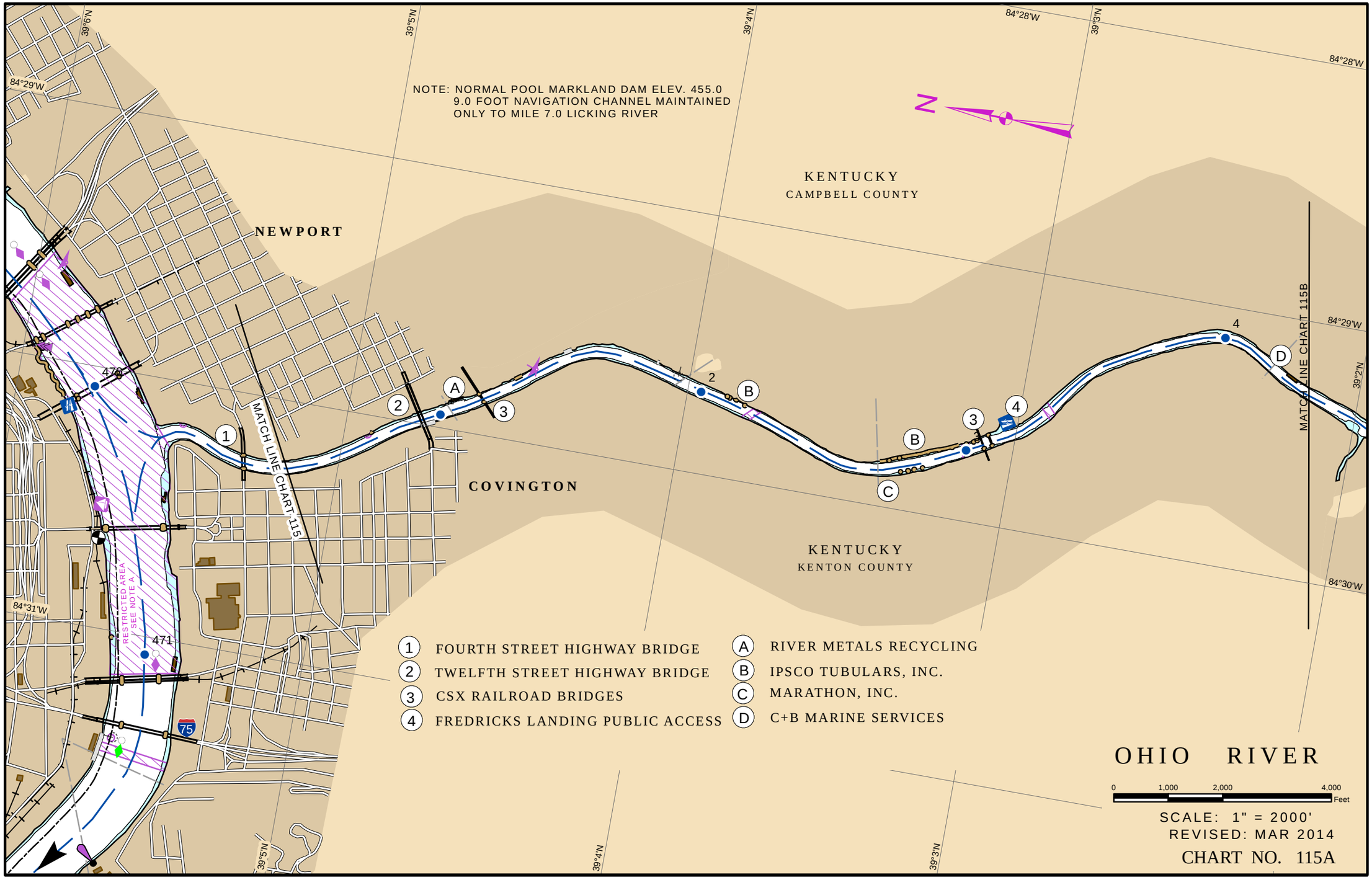


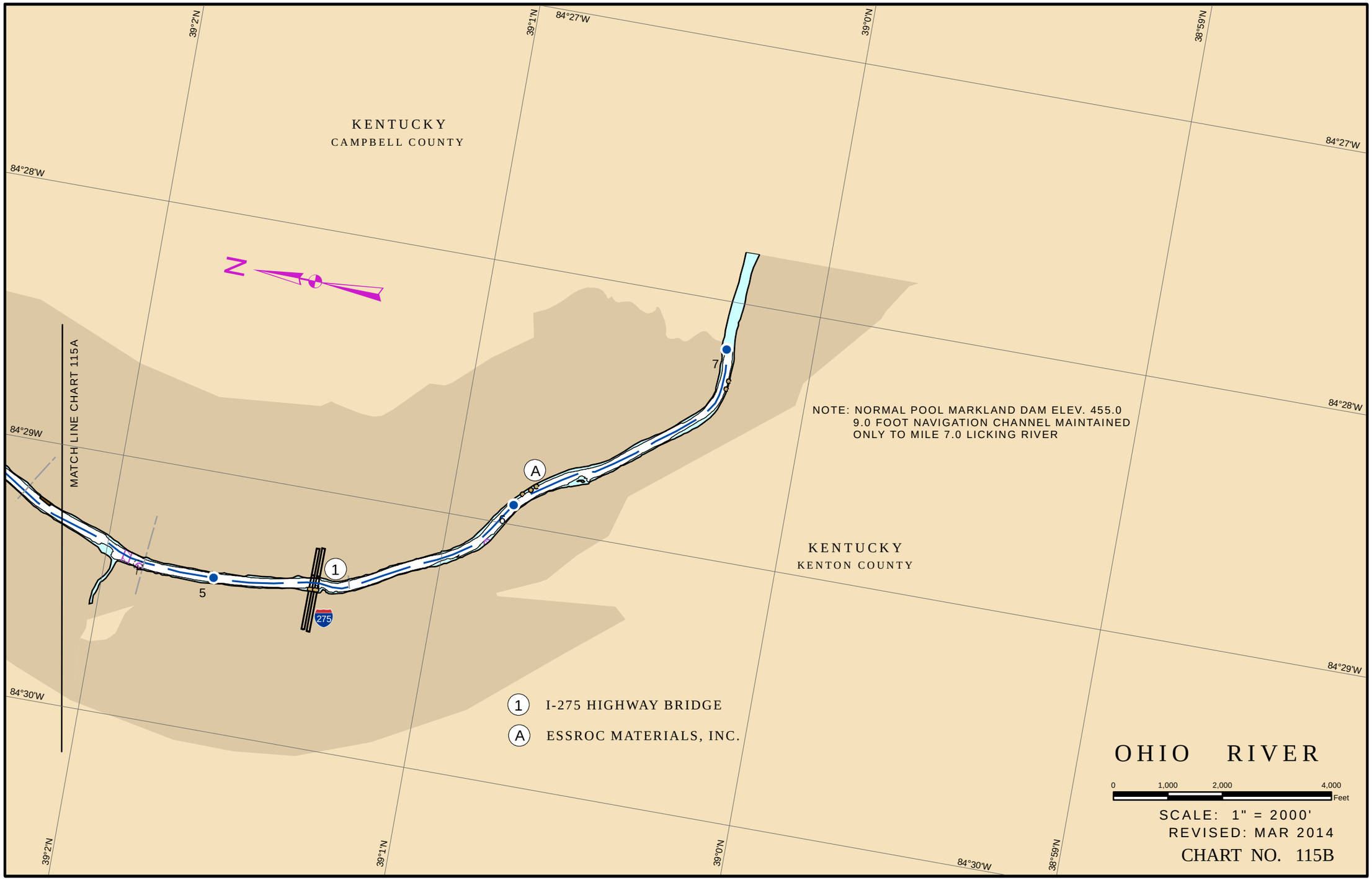
DOWNSTREAM VIEW

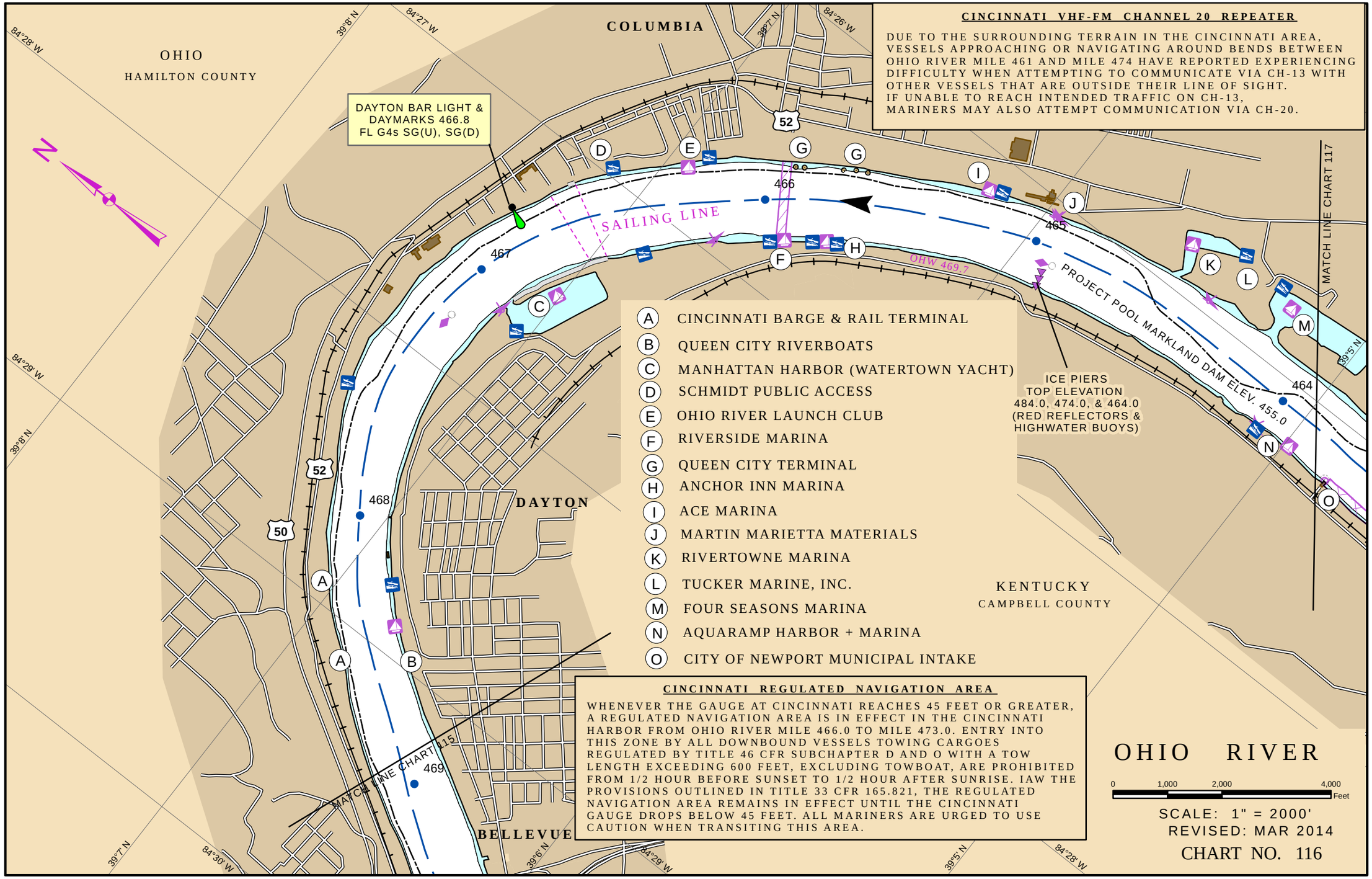
PROJECT POOL STAGE	
DATUM	ELEV.
OHIO RIVER DATUM	455.00
NGVD 29	454.27
NAVD 88	453.61

CHANNEL SPAN									
VERTICAL DATUM	OHIO RIVER DATUM (ORD)			NGVD 29			NAVD 88		
LOCATION	KY PIER	CENTER	OH PIER	KY PIER	CENTER	OH PIER	KY PIER	CENTER	OH PIER
ELEVATION OF LOW STEEL	523.6	532.6	523.1	522.9	531.9	522.4	522.2	531.2	521.7
VERT. CLEARANCE AT PROJECT POOL STAGE	68.6	77.6	68.1	68.6	77.6	68.1	68.6	77.6	68.1

NOTE: ALL UNITS ARE IN FEET

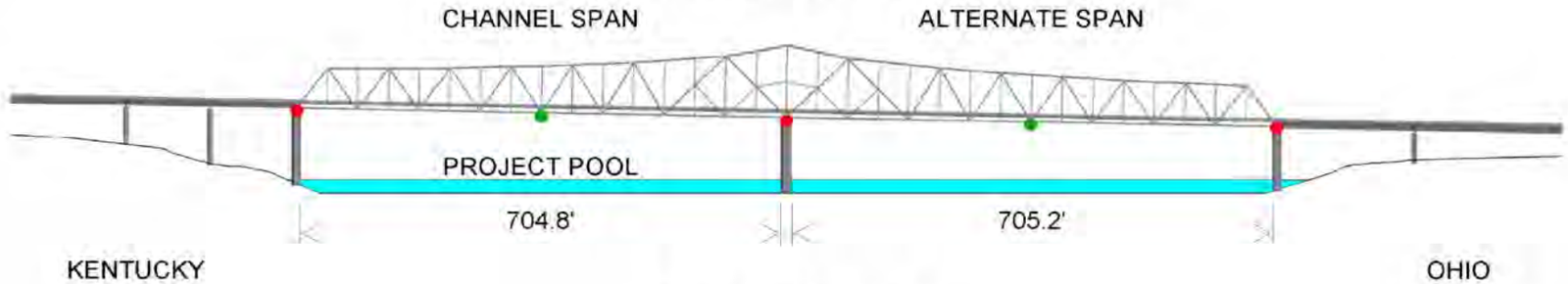

NOTE: NORMAL POOL MARKLAND DAM ELEV. 455.0
9.0 FOOT NAVIGATION CHANNEL MAINTAINED
ONLY TO MILE 7.0 LICKING RIVER
N
KENTUCKY
CAMPBELL COUNTY
NEWPORT
COVINGTON
KENTUCKY
KENTON COUNTY
MATCH LINE CHART 115
MATCH LINE CHART 115B
RESTRICTED AREA
SEE NOTE A
476
471
75
39°6'N
39°5'N
39°4'N
39°3'N
39°2'N
84°29'W
84°28'W
84°30'W
84°31'W
1 FOURTH STREET HIGHWAY BRIDGE
2 TWELFTH STREET HIGHWAY BRIDGE
3 CSX RAILROAD BRIDGES
4 FREDRICKS LANDING PUBLIC ACCESS
A RIVER METALS RECYCLING
B IPSCO TUBULARS, INC.
C MARATHON, INC.
D C+B MARINE SERVICES
OHIO RIVER
0 1,000 2,000 4,000 Feet
SCALE: 1" = 2000'
REVISED: MAR 2014
CHART NO. 115A


KENTUCKY
CAMPBELL COUNTY
KENTUCKY
KENTON COUNTY
MATCH LINE CHART 115A
NOTE: NORMAL POOL MARKLAND DAM ELEV. 455.0
9.0 FOOT NAVIGATION CHANNEL MAINTAINED
ONLY TO MILE 7.0 LICKING RIVER
1 I-275 HIGHWAY BRIDGE
A ESSROC MATERIALS, INC.
OHIO RIVER
0 1,000 2,000 4,000 Feet
SCALE: 1" = 2000'
REVISED: MAR 2014
CHART NO. 115B
39°2'N
39°1'N
39°0'N
38°59'N
84°27'W
84°28'W
84°29'W
84°30'W
5
6
7
A
1
275


CINCINNATI VHF-FM CHANNEL 20 REPEATER
DUE TO THE SURROUNDING TERRAIN IN THE CINCINNATI AREA, VESSELS APPROACHING OR NAVIGATING AROUND BENDS BETWEEN OHIO RIVER MILE 461 AND MILE 474 HAVE REPORTED EXPERIENCING DIFFICULTY WHEN ATTEMPTING TO COMMUNICATE VIA CH-13 WITH OTHER VESSELS THAT ARE OUTSIDE THEIR LINE OF SIGHT. IF UNABLE TO REACH INTENDED TRAFFIC ON CH-13, MARINERS MAY ALSO ATTEMPT COMMUNICATION VIA CH-20.
OHIO
HAMILTON COUNTY
COLUMBIA
DAYTON BAR LIGHT & DAYMARKS 466.8 FL G4s SG(U), SG(D)
SAILING LINE
OHW 469.7
PROJECT POOL MARKLAND DAM ELEV. 455.0
ICE PIERS TOP ELEVATION 484.0, 474.0, & 464.0 (RED REFLECTORS & HIGHWATER BUOYS)
MATCH LINE CHART 117
MATCH LINE CHART 115
DAYTON
BELLEVUE
KENTUCKY
CAMPBELL COUNTY
A CINCINNATI BARGE & RAIL TERMINAL
B QUEEN CITY RIVERBOATS
C MANHATTAN HARBOR (WATERTOWN YACHT)
D SCHMIDT PUBLIC ACCESS
E OHIO RIVER LAUNCH CLUB
F RIVERSIDE MARINA
G QUEEN CITY TERMINAL
H ANCHOR INN MARINA
I ACE MARINA
J MARTIN MARIETTA MATERIALS
K RIVERTOWNE MARINA
L TUCKER MARINE, INC.
M FOUR SEASONS MARINA
N AQUARAMP HARBOR + MARINA
O CITY OF NEWPORT MUNICIPAL INTAKE
CINCINNATI REGULATED NAVIGATION AREA
WHENEVER THE GAUGE AT CINCINNATI REACHES 45 FEET OR GREATER, A REGULATED NAVIGATION AREA IS IN EFFECT IN THE CINCINNATI HARBOR FROM OHIO RIVER MILE 466.0 TO MILE 473.0. ENTRY INTO THIS ZONE BY ALL DOWNBOUND VESSELS TOWING CARGOES REGULATED BY TITLE 46 CFR SUBCHAPTER D AND O WITH A TOW LENGTH EXCEEDING 600 FEET, EXCLUDING TOWBOAT, ARE PROHIBITED FROM 1/2 HOUR BEFORE SUNSET TO 1/2 HOUR AFTER SUNRISE. IAW THE PROVISIONS OUTLINED IN TITLE 33 CFR 165.821, THE REGULATED NAVIGATION AREA REMAINS IN EFFECT UNTIL THE CINCINNATI GAUGE DROPS BELOW 45 FEET. ALL MARINERS ARE URGED TO USE CAUTION WHEN TRANSITING THIS AREA.
OHIO RIVER
0 1,000 2,000 4,000 Feet
SCALE: 1" = 2000'
REVISED: MAR 2014
CHART NO. 116

I-275 Twin Highway Bridges

RIVER MILE 461.9

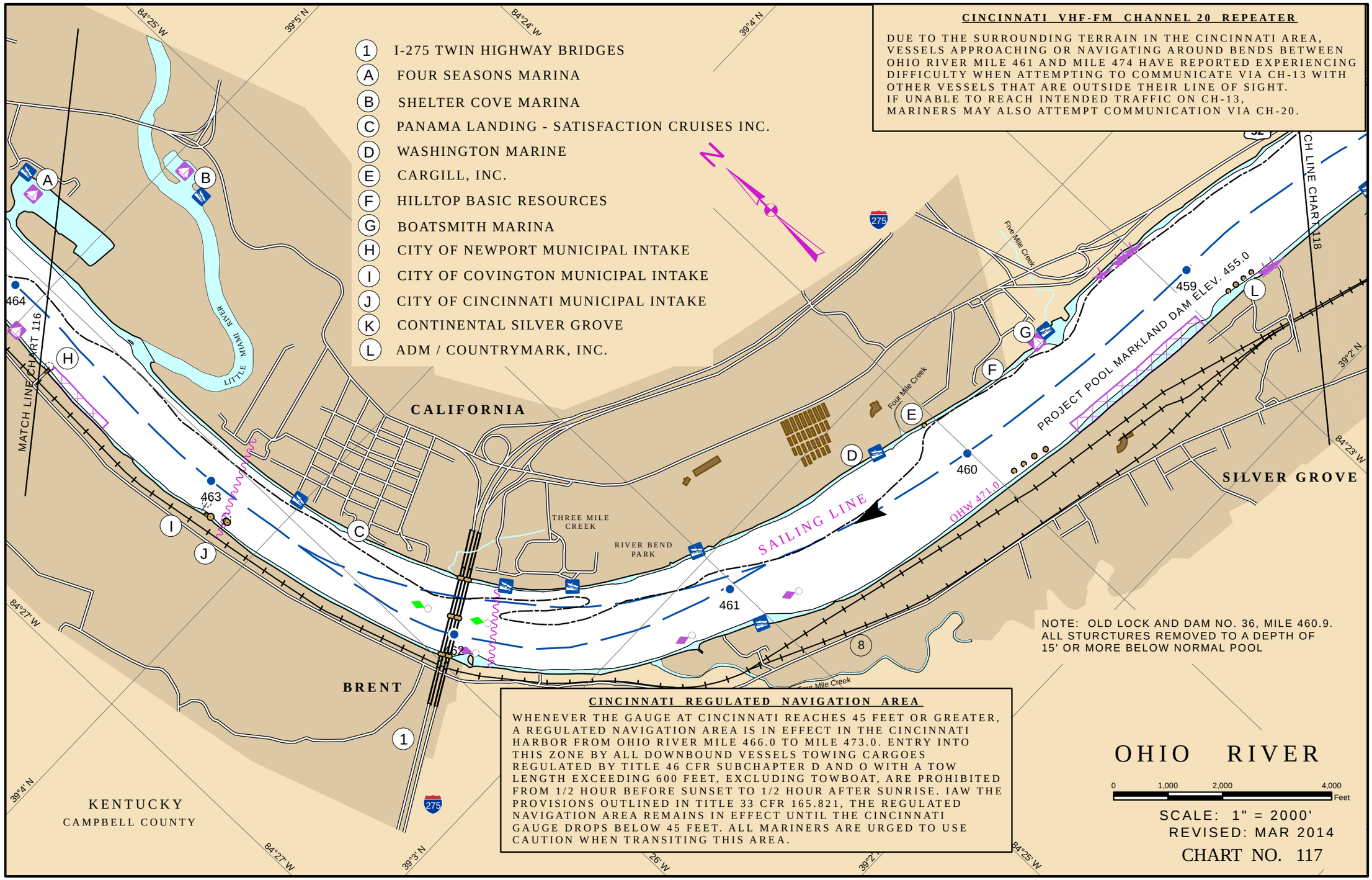


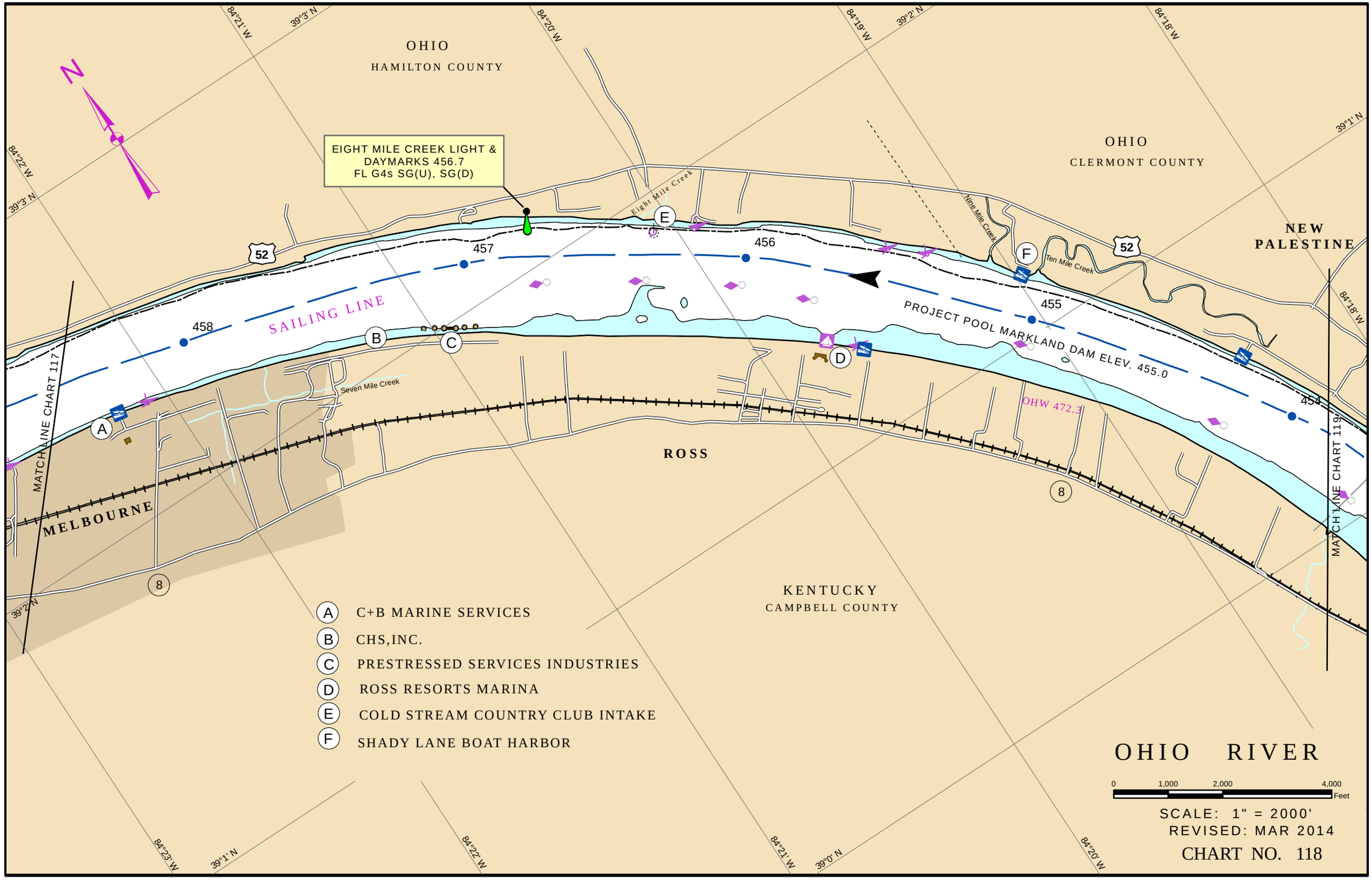
DOWNSTREAM VIEW

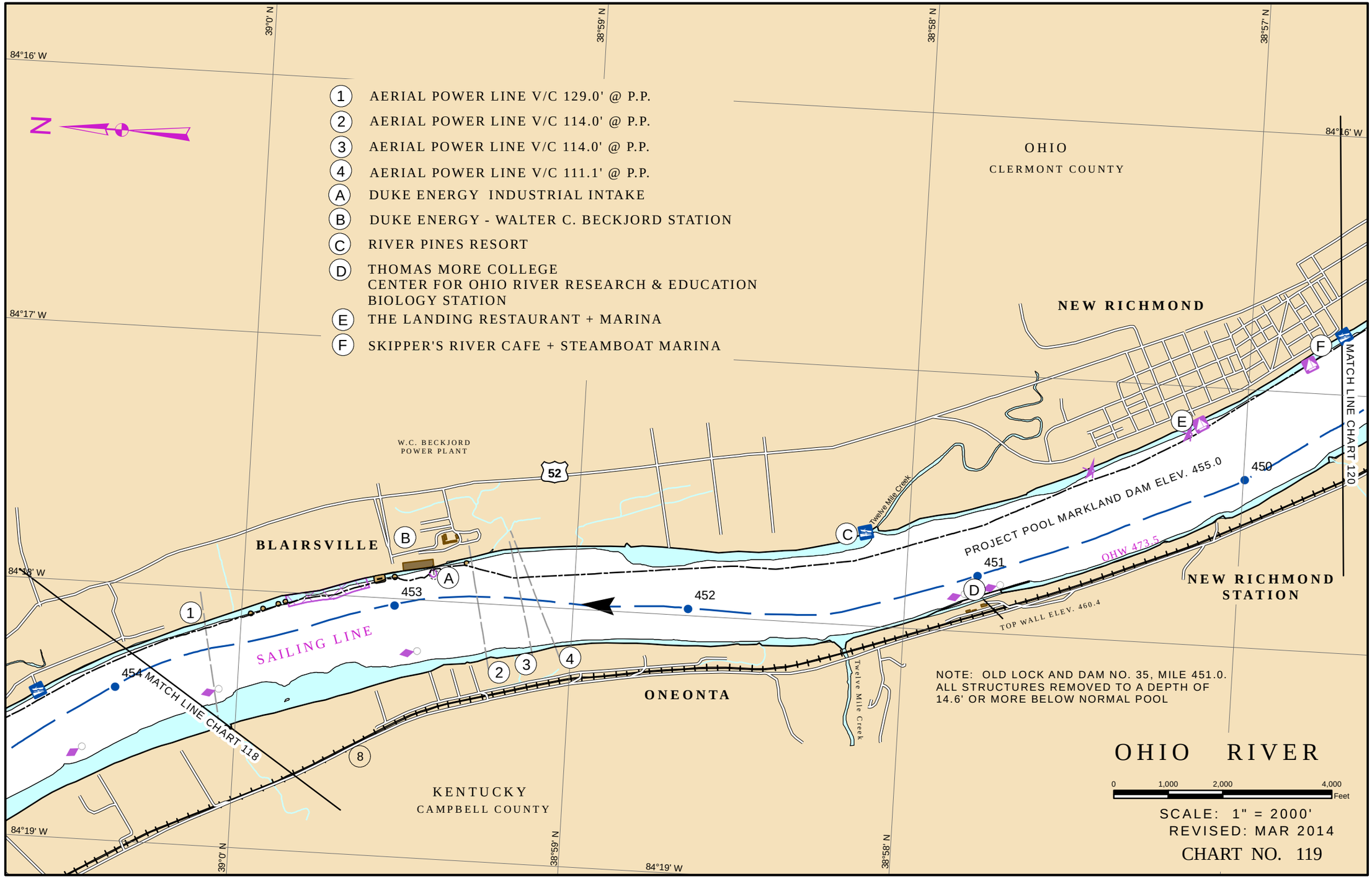
PROJECT POOL STAGE	
DATUM	ELEV.
OHIO RIVER DATUM	455.00
NGVD 29	454.25
NAVD 88	453.58

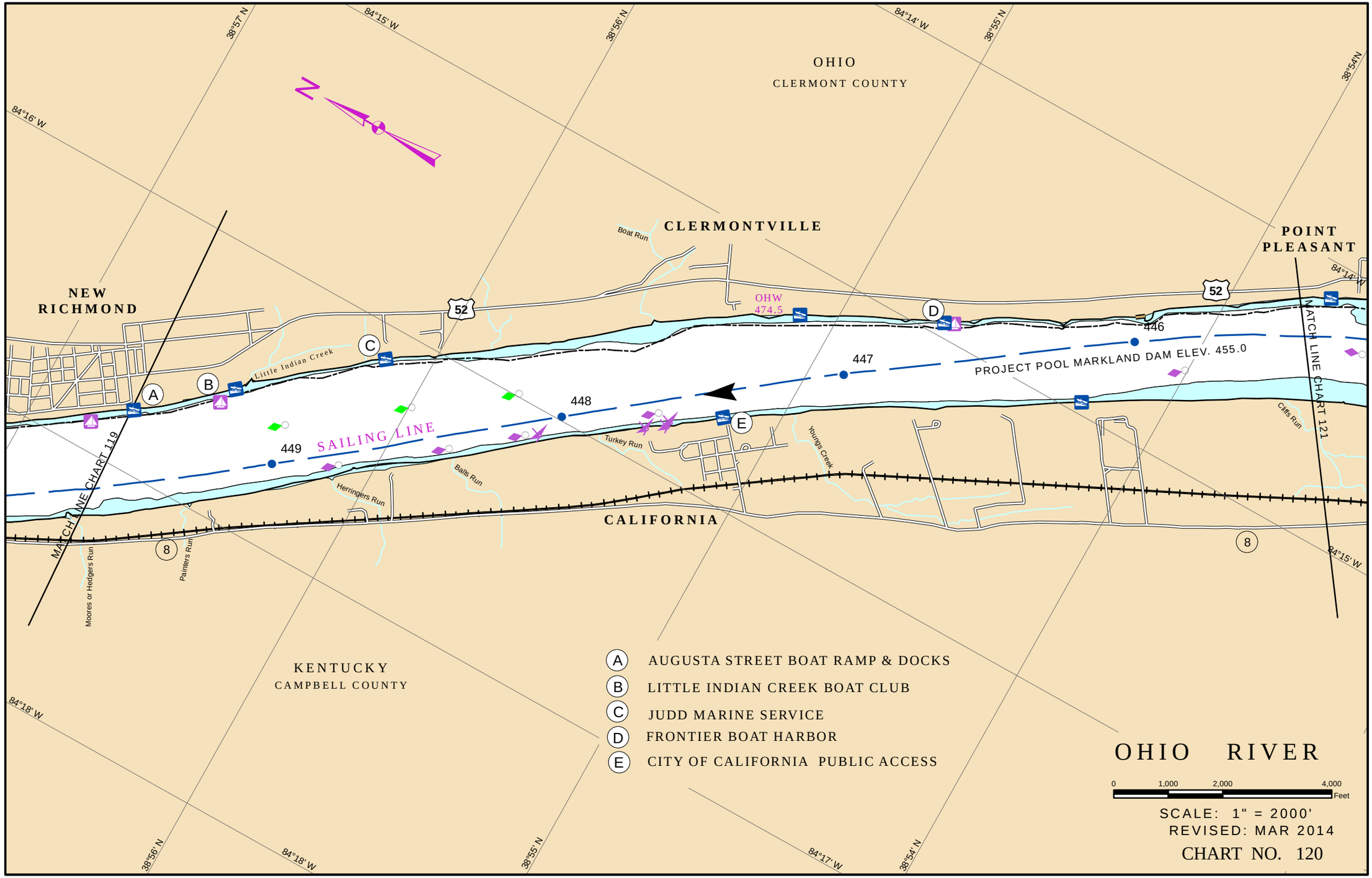
CHANNEL SPAN									
VERTICAL DATUM	OHIO RIVER DATUM (ORD)			NGVD 29			NAVD 88		
LOCATION	KY PIER	CENTER	OH PIER	KY PIER	CENTER	OH PIER	KY PIER	CENTER	OH PIER
ELEVATION OF LOW STEEL	565.8	558.8	551.7	565.1	558.1	551.0	564.4	557.4	550.3
VERT. CLEARANCE AT PROJECT POOL STAGE	110.8	103.8	96.7	110.8	103.8	96.7	110.8	103.8	96.7
ALTERNATE SPAN									
VERTICAL DATUM	OHIO RIVER DATUM (ORD)			NGVD 29			NAVD 88		
LOCATION	KY PIER	CENTER	OH PIER	KY PIER	CENTER	OH PIER	KY PIER	CENTER	OH PIER
ELEVATION OF LOW STEEL	551.3	544.5	537.5	550.6	543.8	536.8	549.9	543.1	536.1
VERT. CLEARANCE AT PROJECT POOL STAGE	96.3	89.5	82.5	96.3	89.5	82.5	96.3	89.5	82.5

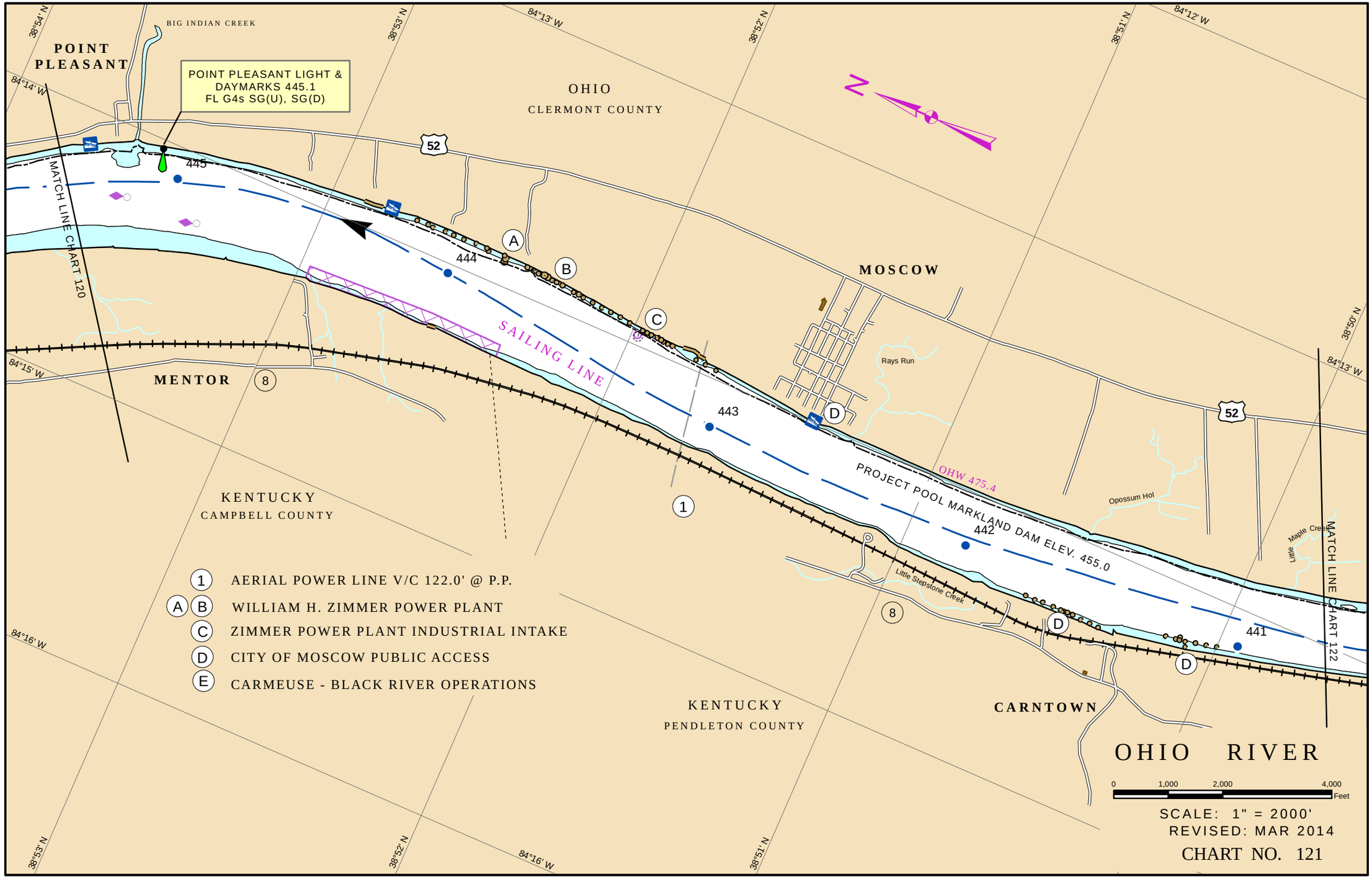
NOTE: ALL UNITS ARE IN FEET


1 I-275 TWIN HIGHWAY BRIDGES
A FOUR SEASONS MARINA
B SHELTER COVE MARINA
C PANAMA LANDING - SATISFACTION CRUISES INC.
D WASHINGTON MARINE
E CARGILL, INC.
F HILLTOP BASIC RESOURCES
G BOATSMITH MARINA
H CITY OF NEWPORT MUNICIPAL INTAKE
I CITY OF COVINGTON MUNICIPAL INTAKE
J CITY OF CINCINNATI MUNICIPAL INTAKE
K CONTINENTAL SILVER GROVE
L ADM / COUNTRYMARK, INC.
CINCINNATI VHF-FM CHANNEL 20 REPEATER
DUE TO THE SURROUNDING TERRAIN IN THE CINCINNATI AREA, VESSELS APPROACHING OR NAVIGATING AROUND BENDS BETWEEN OHIO RIVER MILE 461 AND MILE 474 HAVE REPORTED EXPERIENCING DIFFICULTY WHEN ATTEMPTING TO COMMUNICATE VIA CH-13 WITH OTHER VESSELS THAT ARE OUTSIDE THEIR LINE OF SIGHT. IF UNABLE TO REACH INTENDED TRAFFIC ON CH-13, MARINERS MAY ALSO ATTEMPT COMMUNICATION VIA CH-20.
CALIFORNIA
SILVER GROVE
BRENT
KENTUCKY
CAMPBELL COUNTY
LITTLE MIAMI RIVER
THREE MILE CREEK
RIVER BEND PARK
Four Mile Creek
Five Mile Creek
SAILING LINE
PROJECT POOL MARKLAND DAM ELEV. 455.0
OHW 471.0
MATCH LINE CHART 116
CH LINE CHART 118
464
463
462
461
460
459
NOTE: OLD LOCK AND DAM NO. 36, MILE 460.9. ALL STURCTURES REMOVED TO A DEPTH OF 15' OR MORE BELOW NORMAL POOL
CINCINNATI REGULATED NAVIGATION AREA
WHENEVER THE GAUGE AT CINCINNATI REACHES 45 FEET OR GREATER, A REGULATED NAVIGATION AREA IS IN EFFECT IN THE CINCINNATI HARBOR FROM OHIO RIVER MILE 466.0 TO MILE 473.0. ENTRY INTO THIS ZONE BY ALL DOWNBOUND VESSELS TOWING CARGOES REGULATED BY TITLE 46 CFR SUBCHAPTER D AND O WITH A TOW LENGTH EXCEEDING 600 FEET, EXCLUDING TOWBOAT, ARE PROHIBITED FROM 1/2 HOUR BEFORE SUNSET TO 1/2 HOUR AFTER SUNRISE. IAW THE PROVISIONS OUTLINED IN TITLE 33 CFR 165.821, THE REGULATED NAVIGATION AREA REMAINS IN EFFECT UNTIL THE CINCINNATI GAUGE DROPS BELOW 45 FEET. ALL MARINERS ARE URGED TO USE CAUTION WHEN TRANSITING THIS AREA.
OHIO RIVER
0 1,000 2,000 4,000 Feet
SCALE: 1" = 2000'
REVISED: MAR 2014
CHART NO. 117


OHIO
HAMILTON COUNTY
OHIO
CLERMONT COUNTY
NEW PALESTINE
EIGHT MILE CREEK LIGHT &
DAYMARKS 456.7
FL G4s SG(U), SG(D)
Eight Mile Creek
Nine Mile Creek
Ten Mile Creek
Seven Mile Creek
52
457
456
455
454
458
SAILING LINE
PROJECT POOL MARKLAND DAM ELEV. 455.0
OHW 472.3
MATCH LINE CHART 117
MATCH LINE CHART 119
MELBOURNE
ROSS
KENTUCKY
CAMPBELL COUNTY
8
A C+B MARINE SERVICES
B CHS,INC.
C PRESTRESSED SERVICES INDUSTRIES
D ROSS RESORTS MARINA
E COLD STREAM COUNTRY CLUB INTAKE
F SHADY LANE BOAT HARBOR
OHIO RIVER
0 1,000 2,000 4,000 Feet
SCALE: 1" = 2000'
REVISED: MAR 2014
CHART NO. 118


1 AERIAL POWER LINE V/C 129.0' @ P.P.
2 AERIAL POWER LINE V/C 114.0' @ P.P.
3 AERIAL POWER LINE V/C 114.0' @ P.P.
4 AERIAL POWER LINE V/C 111.1' @ P.P.
A DUKE ENERGY INDUSTRIAL INTAKE
B DUKE ENERGY - WALTER C. BECKJORD STATION
C RIVER PINES RESORT
D THOMAS MORE COLLEGE
CENTER FOR OHIO RIVER RESEARCH & EDUCATION
BIOLOGY STATION
E THE LANDING RESTAURANT + MARINA
F SKIPPER'S RIVER CAFE + STEAMBOAT MARINA
N
84°16' W
84°17' W
84°18' W
84°19' W
39°0' N
38°59' N
38°58' N
38°57' N
OHIO
CLERMONT COUNTY
NEW RICHMOND
W.C. BECKJORD
POWER PLANT
52
BLAIRSVILLE
Twelve Mile Creek
PROJECT POOL MARKLAND DAM ELEV. 455.0
OHW 473.5
450
451
452
453
454
SAILING LINE
TOP WALL ELEV. 460.4
NEW RICHMOND
STATION
MATCH LINE CHART 120
MATCH LINE CHART 118
ONEONTA
Twelve Mile Creek
NOTE: OLD LOCK AND DAM NO. 35, MILE 451.0.
ALL STRUCTURES REMOVED TO A DEPTH OF
14.6' OR MORE BELOW NORMAL POOL
KENTUCKY
CAMPBELL COUNTY
OHIO RIVER
0 1,000 2,000 4,000
Feet
SCALE: 1" = 2000'
REVISED: MAR 2014
CHART NO. 119


OHIO
CLERMONT COUNTY
CLERMONTVILLE
POINT PLEASANT
NEW RICHMOND
CALIFORNIA
KENTUCKY
CAMPBELL COUNTY
Boat Run
Little Indian Creek
Turkey Run
Balls Run
Herringers Run
Youngs Creek
Cliffs Run
Moores or Hedgers Run
Painters Run
OHW 474.5
PROJECT POOL MARKLAND DAM ELEV. 455.0
SAILING LINE
446
447
448
449
52
8
MATCH LINE CHART 119
MATCH LINE CHART 121
84°16' W
84°15' W
84°14' W
84°18' W
84°17' W
38°57' N
38°56' N
38°55' N
38°54' N
A AUGUSTA STREET BOAT RAMP & DOCKS
B LITTLE INDIAN CREEK BOAT CLUB
C JUDD MARINE SERVICE
D FRONTIER BOAT HARBOR
E CITY OF CALIFORNIA PUBLIC ACCESS
OHIO RIVER
0 1,000 2,000 4,000 Feet
SCALE: 1" = 2000'
REVISED: MAR 2014
CHART NO. 120



1 AERIAL POWER LINE V/C 122.0' @ P.P.

A B WILLIAM H. ZIMMER POWER PLANT

C ZIMMER POWER PLANT INDUSTRIAL INTAKE

D CITY OF MOSCOW PUBLIC ACCESS

E CARMEUSE - BLACK RIVER OPERATIONS

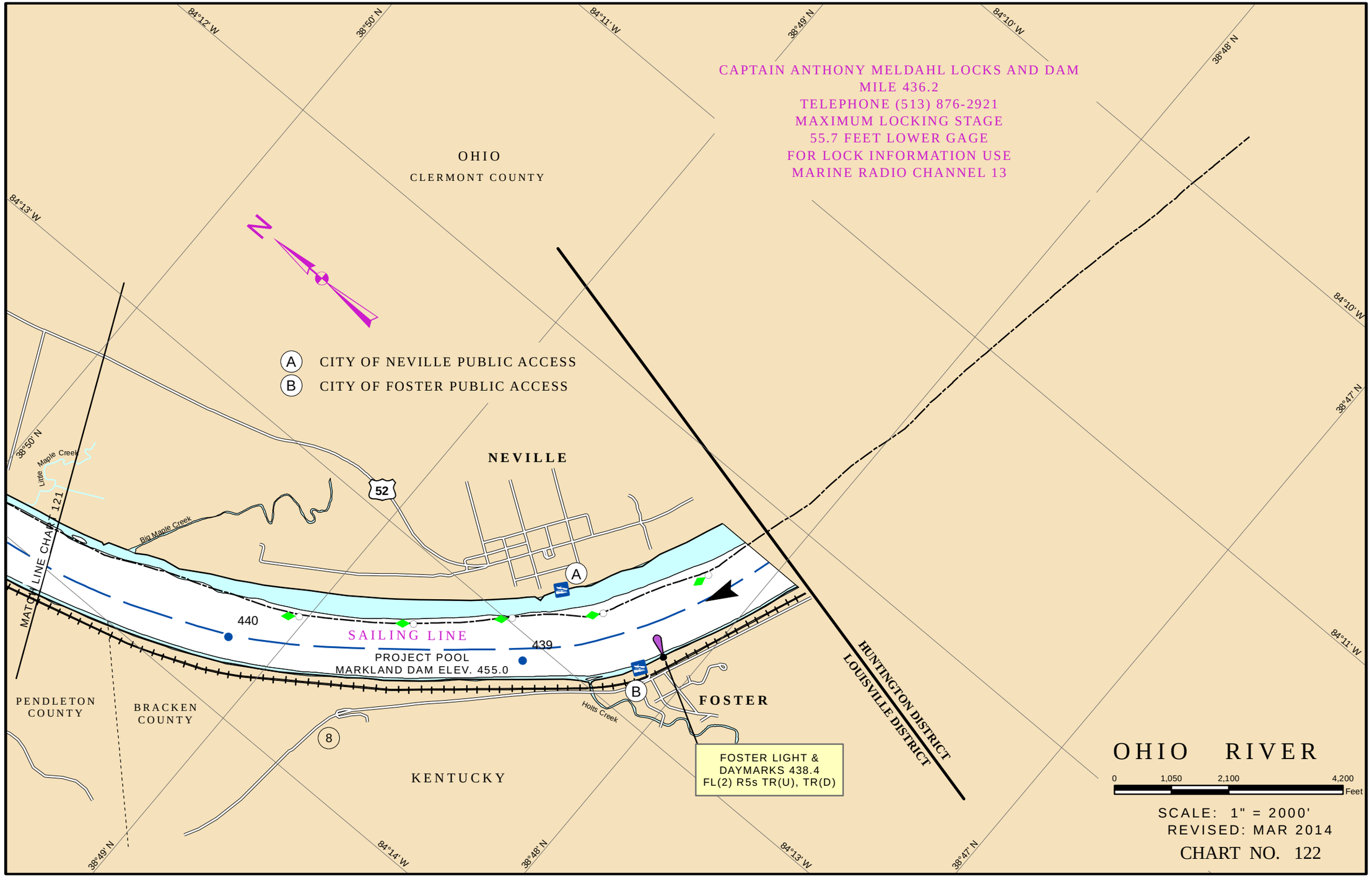

CAPTAIN ANTHONY MELDAHL LOCKS AND DAM
MILE 436.2
TELEPHONE (513) 876-2921
MAXIMUM LOCKING STAGE
55.7 FEET LOWER GAGE
FOR LOCK INFORMATION USE
MARINE RADIO CHANNEL 13
OHIO
CLERMONT COUNTY
N
A CITY OF NEVILLE PUBLIC ACCESS
B CITY OF FOSTER PUBLIC ACCESS
NEVILLE
52
Little Maple Creek
Big Maple Creek
MATCH LINE CHART 121
440
SAILING LINE
439
PROJECT POOL
MARKLAND DAM ELEV. 455.0
A
B
FOSTER
Holts Creek
8
PENDLETON COUNTY
BRACKEN COUNTY
KENTUCKY
HUNTINGTON DISTRICT
LOUISVILLE DISTRICT
FOSTER LIGHT &
DAYMARKS 438.4
FL(2) R5s TR(U), TR(D)
84°12' W
38°50' N
84°11' W
38°49' N
84°10' W
38°48' N
84°13' W
84°10' W
38°47' N
84°11' W
38°50' N
38°49' N
84°14' W
38°48' N
84°13' W
38°47' N
OHIO RIVER
0
1,050
2,100
4,200
Feet
SCALE: 1" = 2000'
REVISED: MAR 2014
CHART NO. 122

Chart #	Mile	Location	Owner/Operator/Feature	Type of Freight/Service	Mechanical Apparatus	In-water Structures
101	536.5 L	Ghent, KY	Kentucky Utilities - Ghent Power Plant Industrial Intake			
101	535.5 L	Ghent, KY	Kentucky Utilities - Ghent Power Plant	Coal	Conveyors	Twenty mooring cells
101	535.3 L	Gallatin Co., KY	Gallatin Steel	Coal, steel	Conveyors	Twelve mooring cells, dock, six dolphins
102	532.9 R	Vevay, IN	Riverside Campground boat ramp			
102	530.4 R	Switzerland Co., IN	Belterra Casino			
102	530.0 L	Gallatin Co., KY	Craigs Creek public access boat ramp			
102	529.9 L	Gallatin Co., KY	Smugglers Cove Marina (within Craigs Creek)			Boat docks
102	529.9 L	Gallatin Co., KY	Pier 99 Marina (within Craigs Creek)			Boat docks
102	529.0 R	Florence, IN	Turtle Creek Harbor/Castaways Yacht Club			Two boat ramps, docks
103	528.2 L	Warsaw, KY	Warsaw public access boat ramp			
103	527.0 L	Warsaw, KY	Riverside Industrial Properties	Fabricated materials		Dock
103	527.0 R	Switzerland Co., IN	Bryant Creek public access boat ramp			
104	522.9 L	Warsaw, KY	Sugar Creek Marina & Restaurant			Docks, boat ramp
104	522.9 L	Warsaw, KY	Sugar Creek public access boat ramp			
105	518.5 R	Patriot, IN	Patriot public access boat ramp & docks			Docks, boat ramp
105	516.7 L	Boone Co., KY	Big Bone Landing & pubic access boat ramp			Docks, boat ramp
105	514.0 R	Switzerland Co., IN	Hilltop Basic Resources, Inc.	Sand, gravel	Conveyor	Ten mooring cells
106	511.0 L	Rabbit Hash, KY	Duke Energy - East Bend Power Station	Coal	Conveyor	Eleven mooring cells

Chart #	Mile	Location	Owner/Operator/Feature	Type of Freight/Service	Mechanical Apparatus	In-water Structures
106	510.5 L	Rabbit Hash, KY	Duke Energy - East Bend Power Station loading dock	Coal	Conveyor	Four mooring cells
107	508.6 R	Rising Sun, IN	Magic Valley Restaurant & Marina (Arnold Creek)			Docks
107	508.6 R	Rising Sun, IN	Arnold Creek public access boat ramp			
108	506.5 R	Rising Sun, IN	Rising Sun public access boat ramp & dock			
109	506.5 R	Rising Sun, IN	Mac's Seaplane Service			
107	506.4 L	Rising Sun, IN	Rising Sun courtesy dock & boat ramp			
107	505.5 R	Rising Sun, IN	Rising Star Casino			
108	504.0 R	Rising Sun, IN	Little Farm on the River access site			Boat ramp
108	502.0 L	Belleview, KY	Belleview Sand & Gravel	Sand, gravel	Conveyors	Four mooring cells, four dolphins
108	501.5 R	Ohio Co., IN	Camp Shore boat ramp			
109	498.7 R	Aurora, IN	Lighthouse Point Yacht Club (Laughery Creek)			Marina
109	498.6 R	Aurora, IN	Paul H. Rohe Co., Inc.	Asphalt Mixtures/Blocks, Sand, Gravel, Crushed Limestone	Conveyor	Four dolphins
109	498.0 R	Aurora, IN	Aurora Marina and boat ramp			
109	497.6 L	Petersburg, KY	Northern Kentucky Aggregates, Inc. (INACTIVE)	Sand, gravel, crushed stone		Spud barge
109	497.1 R	Aurora, IN	Aurora public access boat ramp			
109	496.8 R	Aurora, IN	Aurora Landing restaurant, marina & boat ramp	Fuel, restaurant		Boat ramp, docks
109	496.7 R	Aurora, IN	Waterways Marina (Hogans Creek)			Docks, boat ramp
109	496.7 R	Aurora, IN	Sunset Bay Marina & Campground (Hogans Creek)			Docks

Chart #	Mile	Location	Owner/Operator/Feature	Type of Freight/Service	Mechanical Apparatus	In-water Structures
109	496.6 R	Aurora, IN	Aurora Terminal/Consolidated Grain & Barge	Grain, coke, iron	Conveyor	Barge dock, three mooring cells
109	495.8 R	Aurora, IN	Tradewinds Marina			Docks, boat ramp
110	495.0 L	Petersburg, KY	Petersburg public access boat ramp			
110	494.8 R	Lawrenceburg, IN	Tanner's Creek public access boat ramps and dock			Docks, boat ramps
110	494.0 R	Lawrenceburg, IN	AEP (Indiana-Michigan Power Co.) Tanners Creek Plant & Industrial Intake	Coal, fuel oil	Cranes, conveyor, pipelines	33 mooring cells
110	493.0 R	Lawrenceburg, IN	Riverwatch Restaurant			Docks
110	492.8 R	Lawrenceburg, IN	Hollywood Riverboat Casino			
111	490.7 R	North Bend, OH	E.I. DuPont de Nemours Co.	Sulfuric acid	Pipelines	Two mooring cells
111	490.5 R	North Bend, OH	Duke Energy (Cincinnati Gas & Electric) - Miami Fort Power Station Industrial Intake			
111	490.0 R	North Bend, OH	Duke Energy (Cincinnati Gas & Electric) - Miami Fort Power Station	Coal, fuel oil, general freight	Pipelines, cranes, conveyor	Fourteen mooring cells, permanently moored barge dock
111	489.7 R	North Bend, OH	Marathon-Ashland Oil, Inc.	Oils, fuels	Pipelines	Three mooring cells, permanently moored barge dock
111	489.3 R	North Bend, OH	Agrium US, Inc. & Industrial Intake	Nitrogenous Fertilizers	Pipelines	Two mooring cells
111	487.9 R	North Bend, OH	Greater Cincinnati Asphalt Terminal 2, LLC	Liquid asphalt	Pipeline	Three mooring cells
112	486.4 R	North Bend, OH	North Bend Boat Club			Docks, boat ramps
112	485.9 R	North Bend, OH	Consolidated Grain & Barge (North Bend Terminal)	Agricultural products, salt	Conveyor, hopper	Two cells, three dolphins
112	484.4 R	Addyston, OH	Ineos ABS Corp.	Thermoplastic resins	Pipeline	Four mooring cells, permanently moored barge dock
112	484.1 R	Addyston, OH	Hidden Cove Marina (Muddy Creek)			Docks

Chart #	Mile	Location	Owner/Operator/Feature	Type of Freight/Service	Mechanical Apparatus	In-water Structures
112	484.1 R	Addyston, OH	Catalina Harbor (Muddy Creek)			Docks, boat ramp
112	483.8 R	Addyston, OH	Cabana on the River restaurant & marina			Dock
112	483.7 R	Addyston, OH	Mariner's Landing Marina	Fuel		Docks, boat ramp
112	483.4 R	Addyston, OH	Fernbank Park public access boat ramp			
112	482.5 L	Boone Co., KY	C&B Marine Services	Barge/tow repair, cleaning	Crane	Drydock
113	482.1 R	Sayler Park, OH	Consolidated Grain & Barge Co.	Agricultural products, grain	Conveyor	Four cells
113	480.9 L	Hebron, KY	Aquarius Marine Co.	Construction, repair, salvage, dredging		
113	480.1 R	Cincinnati, OH	Excel Marine Corps. (McGinnis Dock)	Towing services		Docks
113	480.0 R	Cincinnati, OH	Cargill, Inc.	Grain	Conveyor	Permanently moored barge docks
113	479.8 R	Cincinnati, OH	River Transportation Co.	Salt, vegetable oil, fertilizer, petroleum products, dry bulk commodities	Derrickboat, crane, pipelines	Four cells, permanently moored barge docks
113	479.5 R	Cincinnati, OH	CF Industries	Urea Ammonium Nitrate	Conveyor, hopper, crane, pipeline	Five cells, permanently moored barge docks
113	479.0 R	Cincinnati, OH	Shell Oil Co. - Asphalt Plant (Buckeye River Terminals)	Petroleum products, asphalt, light oils	Pipelines	Four wood pile clusters, steel pipe mooring structure
113	478.6 R	Cincinnati, OH	Benchmark River & Rail Terminals LLC (Greater Cincinnati Asset Terminal #3)	Fuel oil and other petroleum products	Pipelines	Four cells, two floating barge docks
113	478.5 R	Cincinnati, OH	Consolidated Grain & Barge Co.	Agricultural products, grain	Conveyor, hopper	Three dolphins, permanently moored barge dock
113	478.4 L	Hebron, KY	Hilltop Basic Resources, Inc.	Aggregate	Conveyor, hopper	
113	478.1 L	Hebron, KY	Constance Marina			Docks, ramp

Chart #	Mile	Location	Owner/Operator/Feature	Type of Freight/Service	Mechanical Apparatus	In-water Structures
113	477.6	Ohio/Kentucky	Anderson Ferry			
114	477.5 R	Cincinnati, OH	Drews on the River	Restaurant		Docks
114	477.4 R	Cincinnati, OH	Enerfab, Inc.	Bulk commodities		Floating crane and work barge
114	477.1 R	Cincinnati, OH	Marathon Petroleum	Petroleum, other chemicals	Pipelines	Three cells, dolphin, floating dock
114	476.7 R	Cincinnati, OH	Marathon Petroleum	Petroleum products	Pipelines	Three cells, dolphin, floating dock
114	476.4 R	Cincinnati, OH	Kosmos Cement	Cement	Pipelines	Four cells, floating dock
114	476.2 R	Cincinnati, OH	Ashland Inc.	Petroleum products	Pipelines	Wharf rolled into water when needed
114	475.7 L	Villa Hills, KY	Villa Hills Marina			Docks, boat ramp
114	475.6 R	Cincinnati, OH	Destiny Yacht Charters / Riverview Landing Marina			Docks, boat ramp
114	475.6 R	Cincinnati, OH	U.S. Coast Guard			
114	475.5 L	Bromley, KY	TransMontaigne Terminal	Petroleum products	Pipeline	Stationary pump barge, four cells
114	475.5 R	Cincinnati, OH	Riverside Park public access boat ramp and dock			Boat ramp and dock
114	475.0 R	Cincinnati, OH	Westway Terminals	Industrial chemicals, agricultural products	Pipelines	Sheet pile dock, floating work barges
114	474.8 R	Cincinnati, OH	Westway Feed	Livestock feed	Conveyor	Floating work barge
114	474.6 R	Cincinnati, OH	Kinder Morgan			Sheet pile dock
114	474.5 R	Cincinnati, OH	Holcim USA	Cement	Conveyor	Four cells, floating dock
114	474.4 L	Bromley, KY	S.O.S. Marine & Salvage, LLC/Riverdogs Marina	Boat repair, bar		Docks

Chart #	Mile	Location	Owner/Operator/Feature	Type of Freight/Service	Mechanical Apparatus	In-water Structures
114	474.4 R	Cincinnati, OH	Consolidated Grain & Barge Co.	Agricultural products, grain	Conveyor, hopper	
114	474.3 R	Cincinnati, OH	Peter Cremer North America	Oleochemical transloading	Pipelines	Floating work barge
114	474.2 L	Bromley, KY	BP Oil Pipeline Co.	Petroleum products	Pipelines	Floating dock, four dolphins
114	473.9 L	Bromley, KY	Ludlow/Bromley Yacht Club			Docks, boat ramp
114	473.8 L	Bromley, KY	Celebration's Riverboats	Charter cruise boat		Docks, boat ramp
114	473.7 L	Ludlow, KY	Aquarius Marine Co.	Repair, towing, salvage, shipyard		Work barges
115	473.3 L	Ludlow, KY	McGinnis, Inc.	Shipyard		Work barges
115	472.6 R	Cincinnati, OH	River Container Concepts		Crane	Four dolphins, dock
115	472.6 L	Covington, KY	Riverhouse Landing private docks			Docks
115	472.3 R	Cincinnati, OH	Port of Cincinnati	Break-bulk materials	Crane	Dock
115	472.1 R	Cincinnati, OH	Cincinnati Bulk Terminal	Steel products, iron ore	Conveyor	Two cells, work barges
115	471.9 R	Cincinnati, OH	Cincinnati Bulk Terminal	Aggregate, general freight	Conveyor	Work barges
115	471.6 R	Cincinnati, OH	Cincinnati Bulk Terminal	Coal	Conveyor	Work barges
115	471.4 R	Cincinnati, OH	Duke Energy (Cincinnati Gas & Electric) Industrial Intake			
115	471.1 R	Cincinnati, OH	Hilltop Basic Resources, Inc.	Stone, gravel, sand	Conveyor, derrickboat, hopper	Pier, dock cell
115	471.1 L	Covington, KY	Waterfront Restaurant			
115	470.6 L	Covington, KY	Covington Landing (INACTIVE)			Four dolphins
115	470.3 R	Cincinnati, OH	Cincinnati Smale Riverfront Park boat docks/marina			Docks

Chart #	Mile	Location	Owner/Operator/Feature	Type of Freight/Service	Mechanical Apparatus	In-water Structures
115	470.3 L	**LICKING RIVER -- See Charts 115a, 115b, Appendix Page A-35**				
115	470.2 R	Cincinnati, OH	Majestic Showboat (INACTIVE)			
116	470.2 R	Cincinnati, OH	Cincinnati Public Landing			Boat ramp
115	470.1 L	Newport, KY	B&B Riverboats	Charter cruise boats		Docks
115	469.7 L	Newport, KY	Beer Cellar, Hooters, Queen City Riverboats shuttle	Restaurants, charter cruise boats		
116	468.5 R	Cincinnati, OH	Cincinnati Barge and Rail Terminal	Bulk commodities, iron, steel	Conveyor, crane, hopper	Work barges
116	468.4 L	Dayton, KY	Queen City Riverboats	Charter cruise boats		Docks
116	467.0 L	Dayton, KY	Manhattan Harbor (Watertown Yacht Club)	Marina		Docks, boat ramp
116	466.2 R	Cincinnati, OH	Ohio River Launch Club	Marina		Docks, boat ramp
116	465.9 R	Cincinnati, OH	Queen City Terminal	Fuel oil, liquid fertilizer, petro chemicals	Pipelines	Five cells, two dolphins
116	466.0 L	Dayton, KY	Riverside Marina	Restaurant, boat storage, marina		Docks, boat ramps
116	465.8 L	Dayton, KY	Anchor Inn Marina			Docks, boat ramps
116	465.3 R	Cincinnati, OH	Aces Marina			Docks, boat ramp
116	464.9 R	Cincinnati, OH	Martin Marietta Materials	Sand, gravel, crushed stone	Conveyor, hopper	Work barge
116	464.5 R	Cincinnati, OH	Rivertowne Marina	Fuel, boat storage		Docks, boat ramp
116	464.3 R	Cincinnati, OH	Four Seasons Marina	Fuel, boat storage		Docks, boat ramp
116	464.0 L	Ft. Thomas, KY	Aquaramp Harbor & Marina			Docks, boat ramp
117	463.7 L	Ft. Thomas, KY	City of Newport Municipal Intake			

Chart #	Mile	Location	Owner/Operator/Feature	Type of Freight/Service	Mechanical Apparatus	In-water Structures
117	463.5 R	Cincinnati, OH	Shelter Cove Marina - Harbour Towne Yacht Club (Little Miami River)	Marina		Docks, boat ramp
117	463.0 L	Ft. Thomas, KY	City of Covington Municipal Intake			
117	462.9 L	Ft. Thomas, KY	City of Cincinnati Municipal Intake			
117	462.5 R	Cincinnati, OH	Panama Landing - Satisfaction Cruises Inc.	Charter cruise boat		Dock
117	460.3 R	Cincinnati, OH	Washington Marine, LLC	Repair, storage, shipyard		Dock, boat ramp
117	460.0 R	Cincinnati, OH	Cargill, Inc.	Grain	Conveyor	Two dolphins, work barges
117	459.8 R	Cincinnati, OH	Hilltop Basic Resources, Inc.	Sand, gravel, stone	Conveyor	Work barges
117	459.8 L	Silver Grove, KY	Continental Building Products, LLC - Silver Grove	Gypsum products	Conveyor	Four mooring cells
117	459.5 R	Cincinnati, OH	Boatsmith Marine Service and Storage	Boat repair, storage		Dock, boat ramp
117	458.9 L	Silver Grove, KY	ADM/CountryMark, LLC	Grain	Conveyor	Four mooring cells
118	458.4 L	Melbourne, KY	C&B Marine Services	Tow services		Two mooring barges
118	457.3 L	Melbourne, KY	Prestressed Services Industries, LLC	Structural precast, pre-stressed components		Overhead loading ramp
118	457.1 L	Melbourne, KY	CHS, Inc.	Dry agricultural fertilizer	Conveyor	Six mooring cells
118	456.3 R	Hamilton Co., OH	Cold Stream Country Club Intake			
118	455.6 L	Ross, KY	Ross Resorts Marina			Docks
118	455.0 R	Clermont Co., OH	Shady Lane Boat Harbor			Boat ramp, dock
119	452.9 R	New Richmond, OH	Duke Energy W.C. Beckjord Power Station	Coal, fuel oil	Pipelines, conveyors, cranes	Seven mooring cells, work barge

Chart #	Mile	Location	Owner/Operator/Feature	Type of Freight/Service	Mechanical Apparatus	In-water Structures
119	452.8 R	New Richmond, OH	Duke Energy W.C. Beckjord Power Station Industrial Intake			
119	451.4 R	New Richmond, OH	River Pines Resort			Boat ramp
119	451.0 L	Oneonta, KY	Thomas More College - Center for Ohio River Research & Education Biology Field Station			Boat ramp
119	450.1 R	New Richmond, OH	The Landing Restaurant & Marina			Dock, boat ramp
119	449.5 R	New Richmond, OH	Skipper's River Cafe and Steamboat Marina	Restaurant		Docks
120	449.4 R	New Richmond, OH	Augusta Street Boat Ramp & Courtesy Dock			Dock, boat ramp
120	449.1 R	New Richmond, OH	Little Indian Creek Boat Club			Dock, boat ramp
120	448.5 R	New Richmond, OH	Judd Marine Service	Surveyor, heavy equipment transport		Dock, boat ramp
120	447.5 L	California, KY	City of California public access boat ramp			
120	447.0 R	New Richmond, OH	Frontier Boat Harbor			Boat ramp
121	444.3 R	Moscow, OH	Cincinnati Out-board Runabout Association	Campground		Boat ramp
121	443.5 R	Moscow, OH	Duke Energy William Zimmer Power Plant	Coal, lime, oil	Conveyors, pipelines, cranes	37 mooring cells, work barges
121	443.4 R	Moscow, OH	Duke Energy William Zimmer Power Plant Industrial Intake			
121	442.7 R	Moscow, OH	City of Moscow public access boat ramp			
121	441.1 L	Pendleton Co., KY	Carmeuse - Black River	Limestone and lime products	Conveyors, cranes	17 mooring cells, work barges
122	438.8 R	Neville, OH	City of Neville public access boat ramp			
122	438.6 R	Foster, KY	City of Foster public access boat ramp			

LICKING RIVER

Chart #	Mile	Location	Owner/Operator/Feature	Type of Freight/Service	Mechanical Apparatus	In-water Structures
115A	1.0 R	Newport, KY	River Metals Recycling, Inc.	Scrap metal	Crane	Dock/Wharf
115A	2.2 R	Wilder, KY	IPSCO Tubulars, Inc.	Steel products	Crane	Twelve mooring cells
115A	2.7 L	Covington, KY	Marathon-Ashland Oil, Inc.	Petroleum products	Pipeline	Three cells, three dolphins
115A	3.1 R	Wilder, KY	Fredricks Landing public access boat ramp			
115A	4.2 R	Wilder, KY	C&B Marine Services	Tow services, Heavy equipment supplier		Dock
115B	6.1 R	Wilder, KY	Essroc Materials, Inc.	Cement		Two cells, one dolphin

Requests for maps or information should be addressed to:

U.S. Army Engineer District, Louisville

600 Dr. Martin Luther King Place
Louisville, KY 40202
Phone (502) 315-6766
Website:
http://www.lrl.usace.army.mil/Missions/CivilWorks/Navigation/Charts.aspx

Areas of Operation:
Ohio River Miles 437 – 981, Green River Miles 0 - 108

Requests for maps or information should be addressed to:

U.S. Army Engineer District, Pittsburgh

2200 William S. Moorhead Federal Building
1000 Liberty Avenue
Pittsburgh, PA 15222-4186
Phone: (412) 395-7500
FAX: (412) 644-4093
Website: http://www.lrp.usace.army.mil/Missions/Navigation/NavigationCharts.aspx

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 8th Street
Huntington, WV 25701
Phone (Navigation) (304) 399-5353
Website: http://www.lrh.usace.army.mil/Missions/Navigation.aspx

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, Nashville

P.O. Box 1070
Nashville, TN 37202-1070
Phone (Navigation) (615) 736-7161
Website:
http://www.lrn.usace.army.mil/Missions/Navigation/NavigationPaperCharts.aspx

Areas of Operation:
Cumberland River Miles 0 - 381, Tennessee River Miles 0 - 652,
Hiwassee River Miles 0 - 22, Clinch River Miles 0 - 62
Tenn-Tombigbee Waterway Miles 444.5 - 450

Additional marine mapping products can be found at:

U.S. Army Topographic Engineering Center

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

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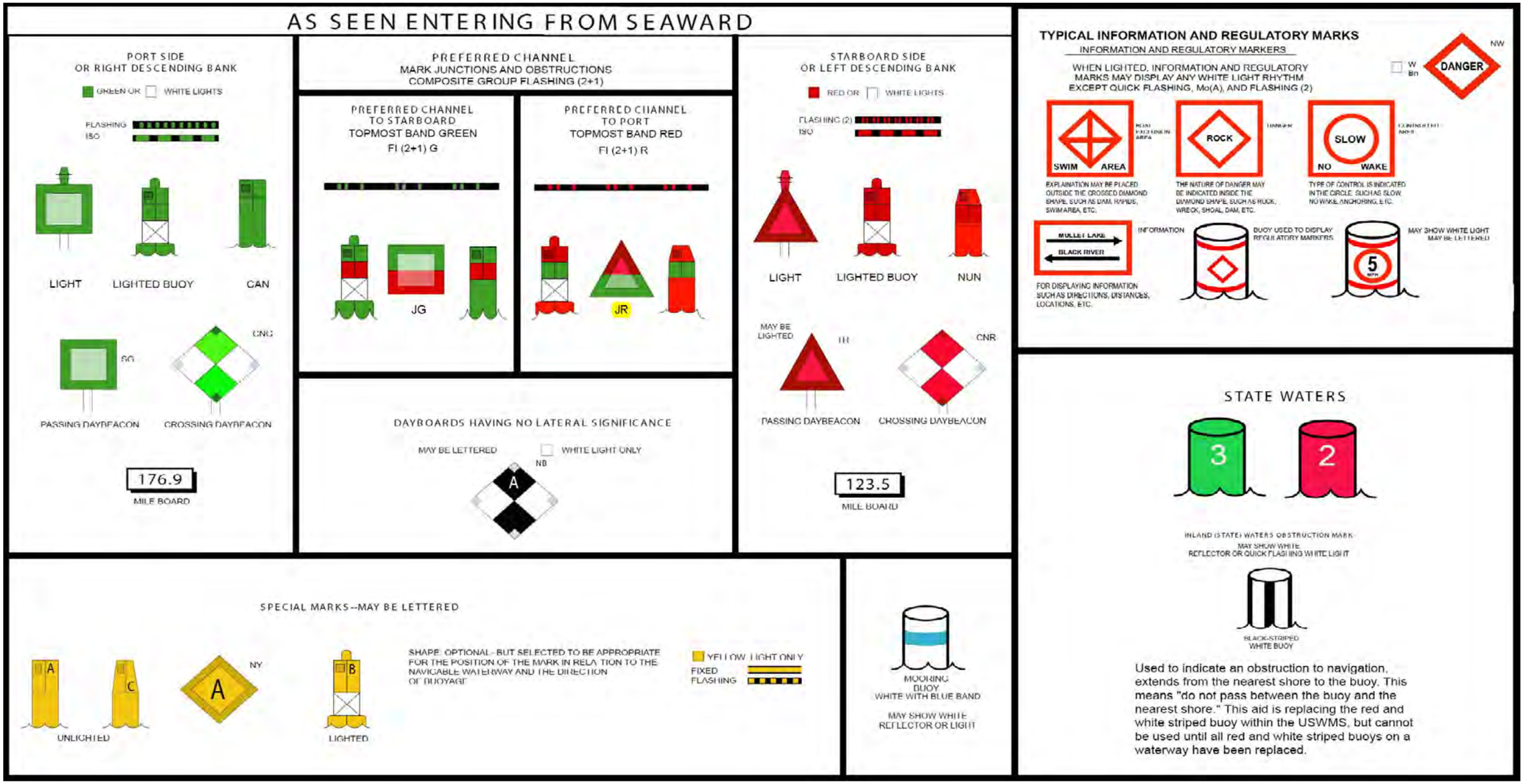
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