

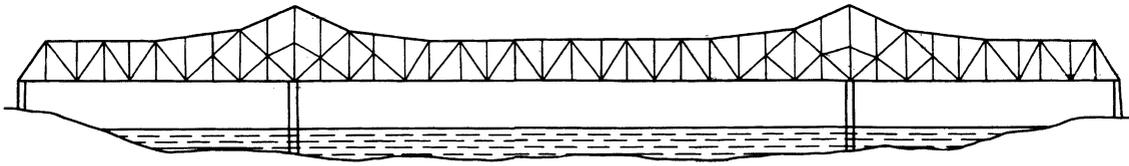


①

N. Y. C. RAILROAD BRIDGE (LOOKING DOWNSTREAM)

CHANNEL SPAN

ELEVATION OF LOW STEEL	605.9'
VERTICAL CLEARANCE AT POOL STAGE	67.9'
VERTICAL CLEARANCE - 1913 H. W.	29.1'
HORIZONTAL CLEARANCE	400.0'

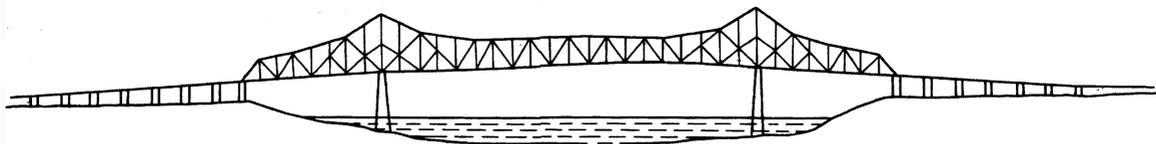


②

SILVER MEMORIAL HIGHWAY BRIDGE (LOOKING DOWNSTREAM)

CHANNEL SPAN

ELEVATION OF LOW STEEL	607.5'
VERTICAL CLEARANCE AT POOL STAGE	69.5'
VERTICAL CLEARANCE - 1913 H. W.	30.8'
HORIZONTAL CLEARANCE	870.0'



④

BARTON JONES HIGHWAY BRIDGE (LOOKING DOWNSTREAM)

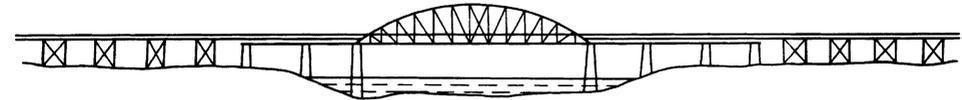
CHANNEL SPAN

ELEVATION OF LOW STEEL	615.2'
VERTICAL CLEARANCE AT POOL STAGE	77.2'
VERTICAL CLEARANCE - 1913 & 1937 H. W.	45.2'
HORIZONTAL CLEARANCE	600.0'

⑤

AERIAL POWER CROSSING

ELEVATION LOW POINT OF SAG	616.1'
VERTICAL CLEARANCE AT POOL STAGE	78.1'
VERTICAL CLEARANCE - 1913 & 1937 H. W.	39.6'



⑥

B. & O. RAILROAD BRIDGE (LOOKING DOWNSTREAM)

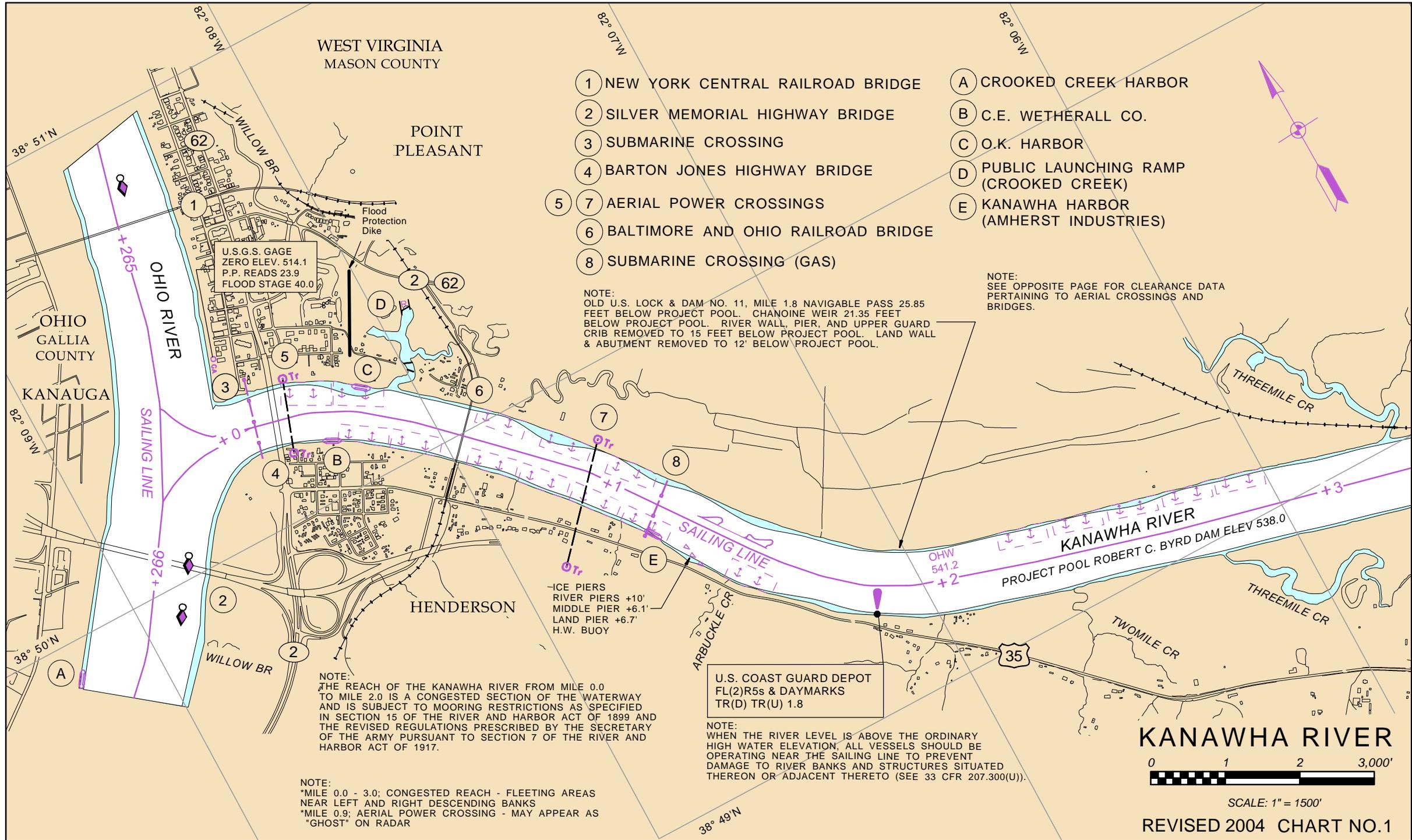
CHANNEL SPAN

ELEVATION OF LOW STEEL	604.0'
VERTICAL CLEARANCE AT POOL STAGE	66.0'
VERTICAL CLEARANCE - 1913 & 1937 H. W.	27.3'
HORIZONTAL CLEARANCE	459.6'

⑦

AERIAL POWER CROSSING

ELEVATION LOW POINT OF SAG	627.0'
VERTICAL CLEARANCE AT POOL STAGE	89.0'
VERTICAL CLEARANCE - 1913 & 1937 H. W.	50.2'



WEST VIRGINIA
MASON COUNTY

POINT
PLEASANT

OHIO
GALLIA COUNTY
KANAUGA

HENDERSON

KANAWHA RIVER

- | | |
|--------------------------------------|--|
| ① NEW YORK CENTRAL RAILROAD BRIDGE | Ⓐ CROOKED CREEK HARBOR |
| ② SILVER MEMORIAL HIGHWAY BRIDGE | Ⓑ C.E. WETHERALL CO. |
| ③ SUBMARINE CROSSING | Ⓒ O.K. HARBOR |
| ④ BARTON JONES HIGHWAY BRIDGE | Ⓓ PUBLIC LAUNCHING RAMP
(CROOKED CREEK) |
| ⑤ ⑦ AERIAL POWER CROSSINGS | Ⓔ KANAWHA HARBOR
(AMHERST INDUSTRIES) |
| ⑥ BALTIMORE AND OHIO RAILROAD BRIDGE | |
| ⑧ SUBMARINE CROSSING (GAS) | |

NOTE:
OLD U.S. LOCK & DAM NO. 11, MILE 1.8 NAVIGABLE PASS 25.85 FEET BELOW PROJECT POOL. CHANOINE WEIR 21.35 FEET BELOW PROJECT POOL. RIVER WALL, PIER, AND UPPER GUARD CRIB REMOVED TO 15 FEET BELOW PROJECT POOL. LAND WALL & ABUTMENT REMOVED TO 12' BELOW PROJECT POOL.

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

NOTE:
THE REACH OF THE KANAWHA RIVER FROM MILE 0.0 TO MILE 2.0 IS A CONGESTED SECTION OF THE WATERWAY AND IS SUBJECT TO MOORING RESTRICTIONS AS SPECIFIED IN SECTION 15 OF THE RIVER AND HARBOR ACT OF 1899 AND THE REVISED REGULATIONS PRESCRIBED BY THE SECRETARY OF THE ARMY PURSUANT TO SECTION 7 OF THE RIVER AND HARBOR ACT OF 1917.

NOTE:
*MILE 0.0 - 3.0; CONGESTED REACH - FLEETING AREAS NEAR LEFT AND RIGHT DESCENDING BANKS
*MILE 0.9; AERIAL POWER CROSSING - MAY APPEAR AS "GHOST" ON RADAR

U.S. COAST GUARD DEPOT
FL(2)R5s & DAYMARKS
TR(D) TR(U) 1.8

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



SCALE: 1" = 1500'

REVISED 2004 CHART NO.1

U.S.G.S. GAGE
ZERO ELEV. 514.1
P.P. READS 23.9
FLOOD STAGE 40.0

ICE PIERS
RIVER PIERS +10'
MIDDLE PIER +6.1'
LAND PIER +6.7'
H.W. BUOY

OHW
541.2
+2

PROJECT POOL ROBERT C. BYRD DAM ELEV 538.0

35

SAILING LINE

SAILING LINE

38° 51'N

82° 08'W

82° 07'W

82° 06'W

82° 06'W

38° 50'N

38° 49'N

WILLOW BR

ARBUCKLE CR

TWOMILE CR

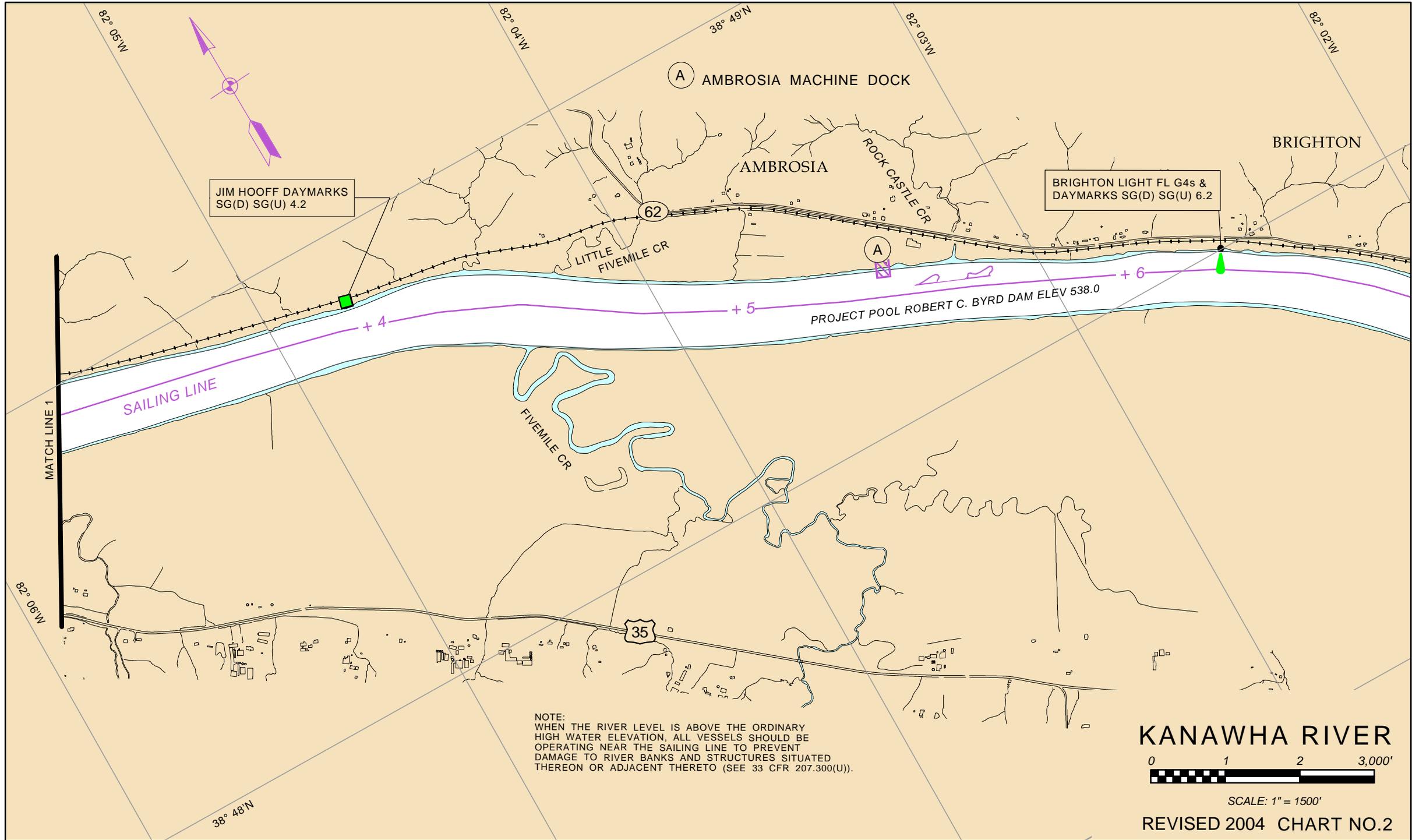
THREEMILE CR

THREEMILE CR

WILLOW BR

OHIO RIVER





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

KANAWHA RIVER



SCALE: 1" = 1500'

REVISED 2004 CHART NO.2

①

AERIAL POWER CROSSING

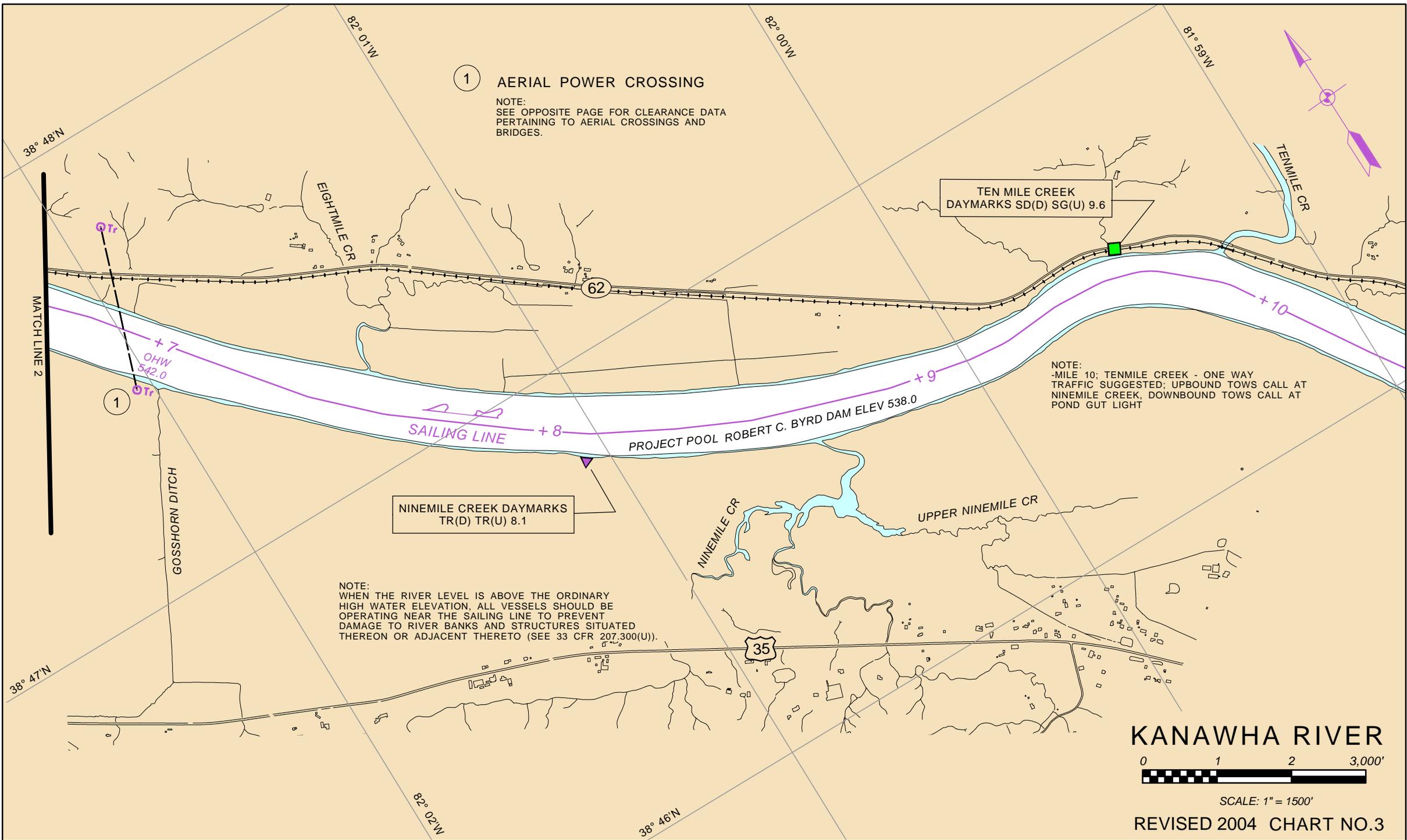
ELEVATION LOW POINT OF SAG	640.0'
VERTICAL CLEARANCE AT POOL STAGE	102.0'
VERTICAL CLEARANCE - 1913 & 1937 H.W.	63.0'

1 AERIAL POWER CROSSING

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

NOTE:
-MILE 10; TENMILE CREEK - ONE WAY
TRAFFIC SUGGESTED; UPBOUND TOWS CALL AT
NINEMILE CREEK, DOWNBOUND TOWS CALL AT
POND GUT LIGHT

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



TEN MILE CREEK
DAYMARKS SD(D) SG(U) 9.6

NINEMILE CREEK DAYMARKS
TR(D) TR(U) 8.1

PROJECT POOL ROBERT C. BYRD DAM ELEV 538.0

KANAWHA RIVER



SCALE: 1" = 1500'

REVISED 2004 CHART NO.3

①

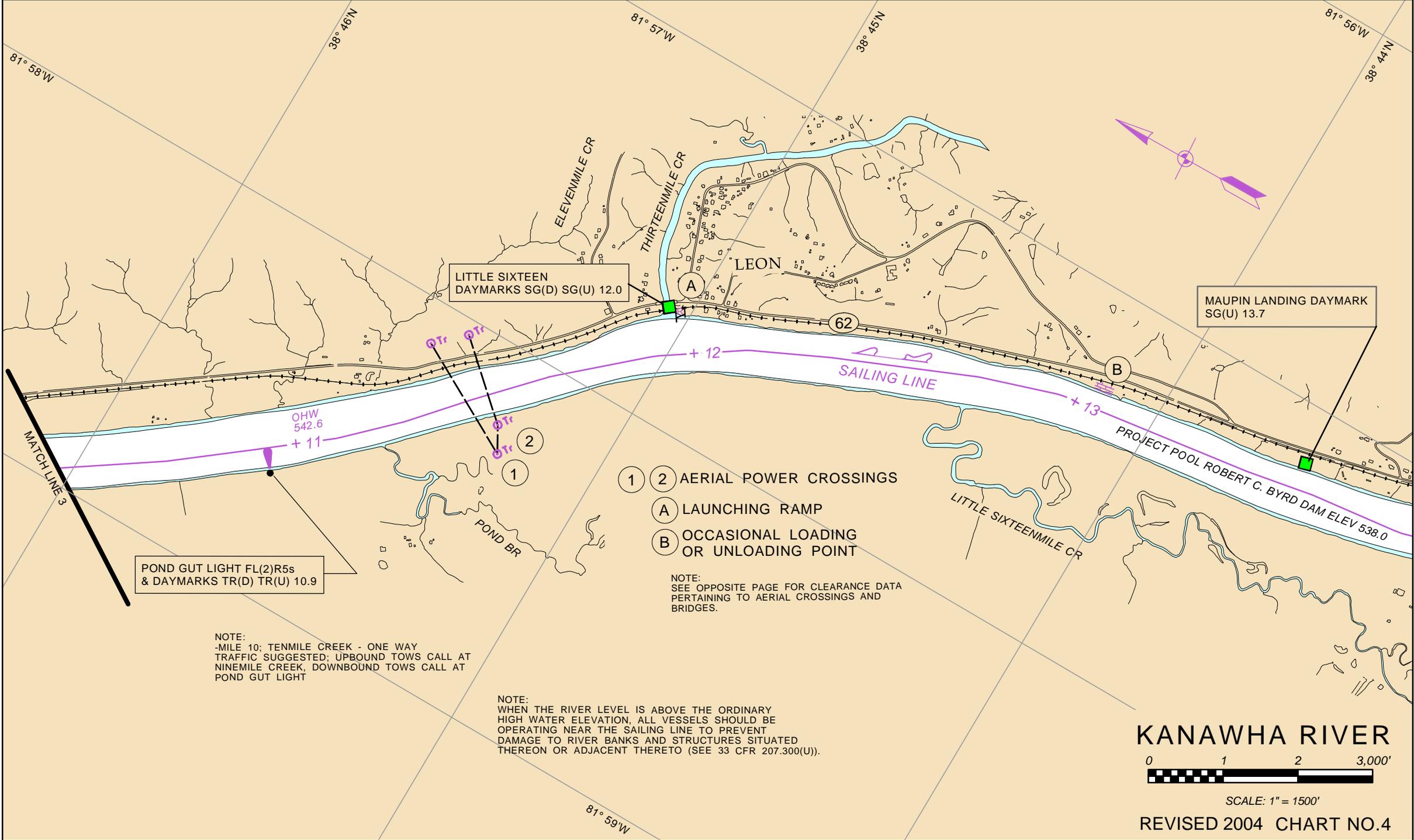
AERIAL POWER CROSSING

ELEVATION LOW POINT OF SAG	657.0'
VERTICAL CLEARANCE AT POOL STAGE	119.0'
VERTICAL CLEARANCE - 1937 H. W.	80.0'

②

AERIAL POWER CROSSING

ELEVATION LOW POINT OF SAG	644.8'
VERTICAL CLEARANCE AT POOL STAGE	106.8'
VERTICAL CLEARANCE - 1937 H. W.	67.8'



LITTLE SIXTEEN
DAYMARKS SG(D) SG(U) 12.0

MAUPIN LANDING DAYMARK
SG(U) 13.7

POND GUT LIGHT FL(2)R5s
& DAYMARKS TR(D) TR(U) 10.9

- ① ② AERIAL POWER CROSSINGS
- A LAUNCHING RAMP
- B OCCASIONAL LOADING OR UNLOADING POINT

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

NOTE:
-MILE 10; TENMILE CREEK - ONE WAY
TRAFFIC SUGGESTED; UPBOUND TOWS CALL AT
NINEMILE CREEK, DOWNBOUND TOWS CALL AT
POND GUT LIGHT

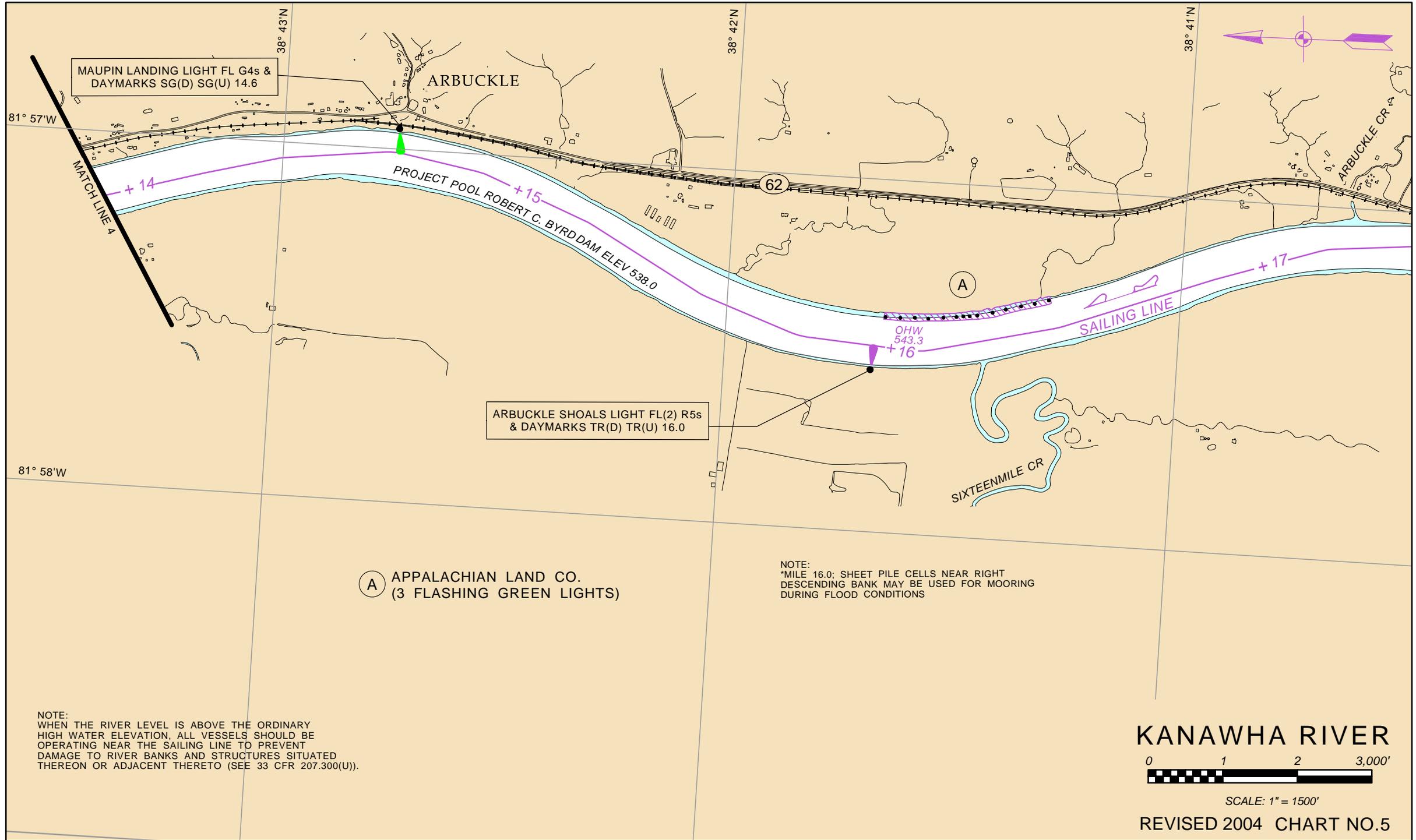
NOTE:
WHEN THE RIVER LEVEL IS ABOVE THE ORDINARY
HIGH WATER ELEVATION, ALL VESSELS SHOULD BE
OPERATING NEAR THE SAILING LINE TO PREVENT
DAMAGE TO RIVER BANKS AND STRUCTURES SITUATED
THEREON OR ADJACENT THERETO (SEE 33 CFR 207.300(U)).

KANAWHA RIVER



SCALE: 1" = 1500'

REVISED 2004 CHART NO.4



MAUPIN LANDING LIGHT FL G4s & DAYMARKS SG(D) SG(U) 14.6

ARBUCKLE

PROJECT POOL ROBERT C. BYRD DAM ELEV 538.0

62

ARBUCKLE CR

SIXTEENMILE CR

ARBUCKLE SHOALS LIGHT FL(2) R5s & DAYMARKS TR(D) TR(U) 16.0

(A) APPALACHIAN LAND CO. (3 FLASHING GREEN LIGHTS)

NOTE: *MILE 16.0; SHEET PILE CELLS NEAR RIGHT DESCENDING BANK MAY BE USED FOR MOORING DURING FLOOD CONDITIONS

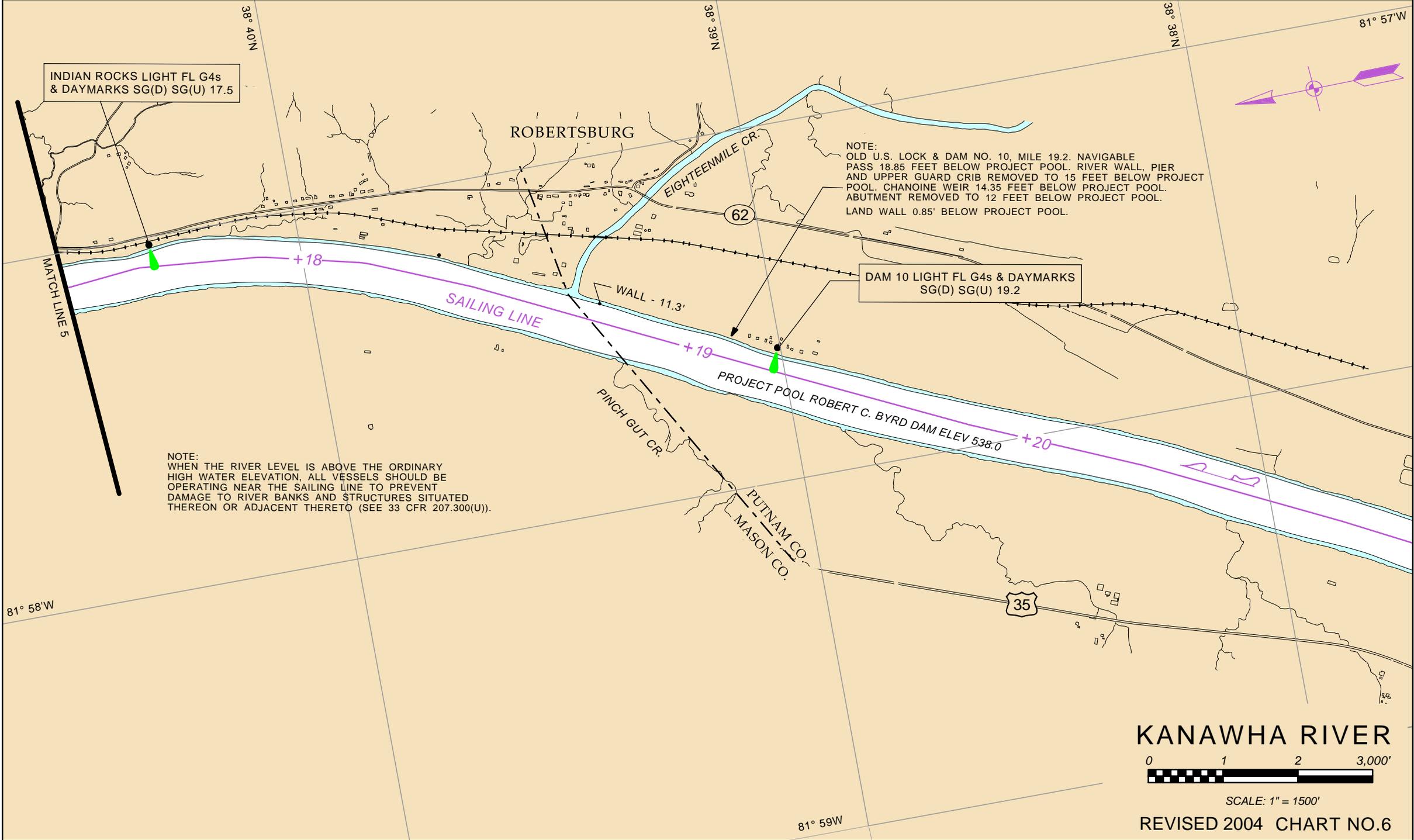
KANAWHA RIVER



SCALE: 1" = 1500'

REVISED 2004 CHART NO.5

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



NOTE:
 OLD U.S. LOCK & DAM NO. 10, MILE 19.2. NAVIGABLE PASS 18.85 FEET BELOW PROJECT POOL. RIVER WALL, PIER AND UPPER GUARD CRIB REMOVED TO 15 FEET BELOW PROJECT POOL. CHANOINE WEIR 14.35 FEET BELOW PROJECT POOL. ABUTMENT REMOVED TO 12 FEET BELOW PROJECT POOL. LAND WALL 0.85' BELOW PROJECT POOL.

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

KANAWHA RIVER



SCALE: 1" = 1500'

REVISED 2004 CHART NO.6

- ① SUBMARINE CROSSINGS
- Ⓐ PRIVATE LAUNCHING RAMP AND BOAT DOCK
- Ⓑ LAUNCHING RAMP
- Ⓒ CLAXTON F. SMITH, SR. DOCK (INACTIVE)

CROSS CREEK LIGHT FL G4s & DAYMARKS SG(D) SG(U) 21.4

MATCH LINE 6

+21
OHW
544.3

BUFFALO

+22

PROJECT POOL ROBERT C. BYRD DAM ELEV 538.0

+23

+24
FIVE AND TWENTY MILE CREEK

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

HANDLEY LANDING LIGHT FL(2) R5s & DAYMARKS TR(D) TR(U) 23.9

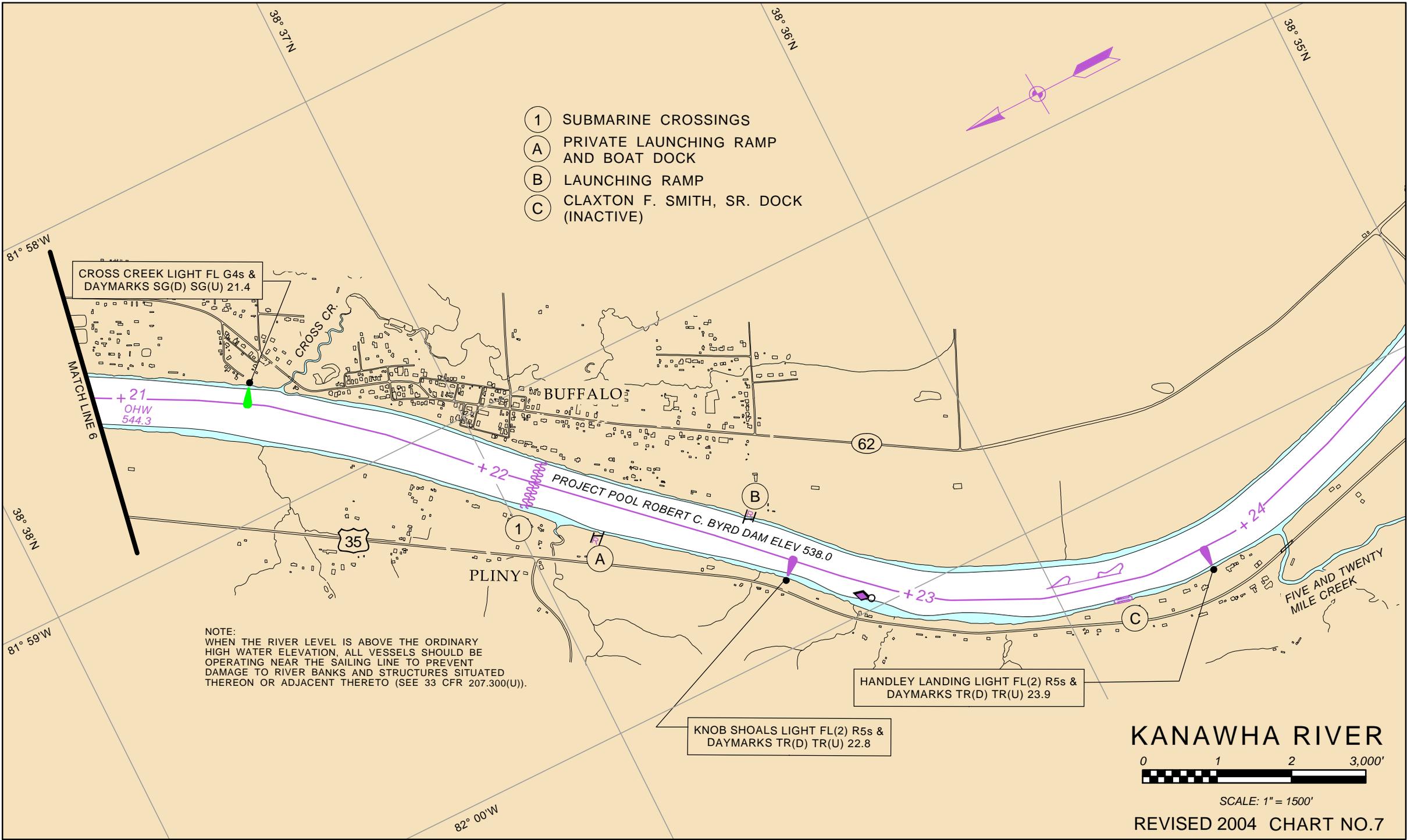
NOB SHOALS LIGHT FL(2) R5s & DAYMARKS TR(D) TR(U) 22.8

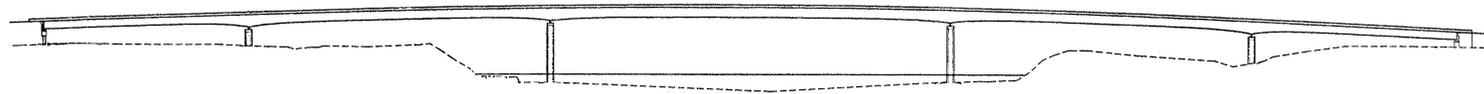
KANAWHA RIVER



SCALE: 1" = 1500'

REVISED 2004 CHART NO.7

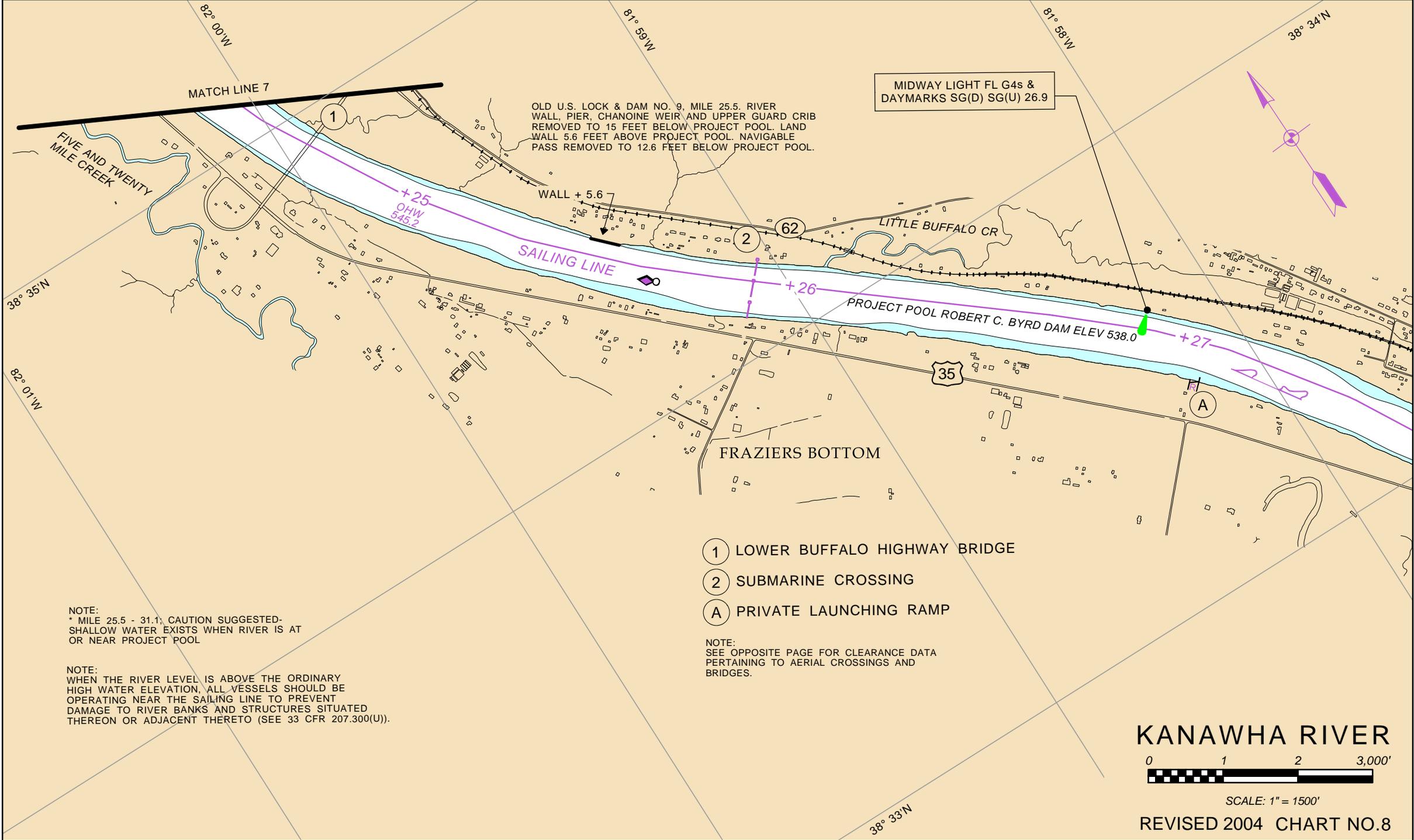




①

LOWER BUFFALO HIGHWAY BRIDGE

ELEVATION OF LOW STEEL	604.3'
VERTICAL CLEARANCE AT POOL STAGE	66.0'
VERTICAL CLEARANCE - 1913 H. W.	30.2'
HORIZONTAL CLEARANCE	500.0'



OLD U.S. LOCK & DAM NO. 9, MILE 25.5. RIVER WALL, PIER, CHANOINE WEIR AND UPPER GUARD CRIB REMOVED TO 15 FEET BELOW PROJECT POOL. LAND WALL 5.6 FEET ABOVE PROJECT POOL. NAVIGABLE PASS REMOVED TO 12.6 FEET BELOW PROJECT POOL.

MIDWAY LIGHT FL G4s & DAYMARKS SG(D) SG(U) 26.9

+25
OHW
545.2

WALL + 5.6

+26

PROJECT POOL ROBERT C. BYRD DAM ELEV 538.0

+27

NOTE:
* MILE 25.5 - 31.1; CAUTION SUGGESTED-
SHALLOW WATER EXISTS WHEN RIVER IS AT
OR NEAR PROJECT POOL

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

- ① LOWER BUFFALO HIGHWAY BRIDGE
- ② SUBMARINE CROSSING
- Ⓐ PRIVATE LAUNCHING RAMP

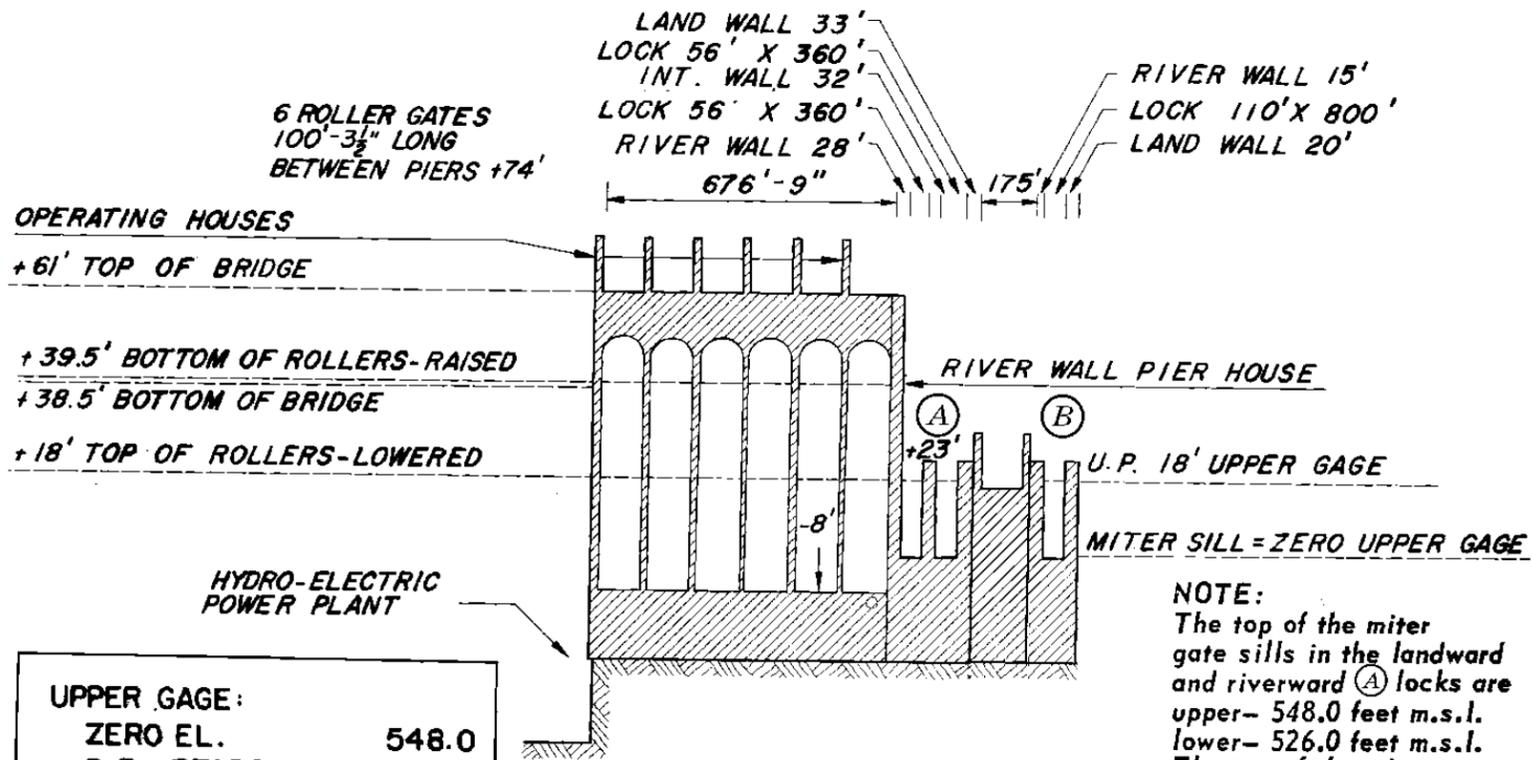
NOTE:
SEE OPPOSITE PAGE FOR CLEARANCE DATA
PERTAINING TO AERIAL CROSSINGS AND
BRIDGES.

KANAWHA RIVER



SCALE: 1" = 1500'

REVISED 2004 CHART NO.8

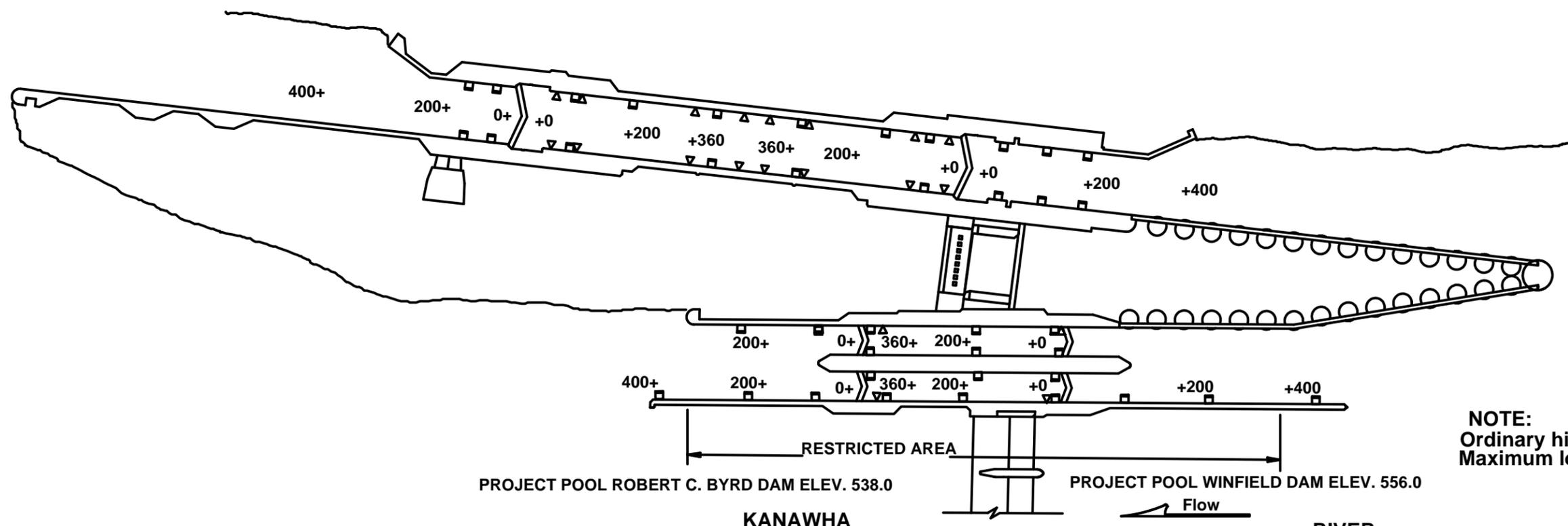


UPPER GAGE:	
ZERO EL.	548.0
P.P. READS	18.0
LOWER GAGE:	
ZERO EL.	529.0
P.P. READS	9.0

NOTE:
 The top of the miter gate sills in the landward and riverward (A) locks are upper- 548.0 feet m.s.l. lower- 526.0 feet m.s.l.
 The top of the miter gate sills in lock (B) are emergency- 548.0 feet m.s.l. upper- 520.0 feet m.s.l. lower- 520.0 feet m.s.l.

②

AERIAL POWER CROSSING	
ELEVATION LOW POINT OF SAG	640.0'
VERTICAL CLEARANCE AT POOL STAGE	102.0'
VERTICAL CLEARANCE-1861 H.W.	45.8'



NOTE:
 Ordinary high water lower gage- 16.8
 Maximum locking stage 39.0" lower gage.

LEGEND
 ▽ FLOATING MOORING BIT
 □ LADDERS-Black and White striped.
 Distance in feet from gate.

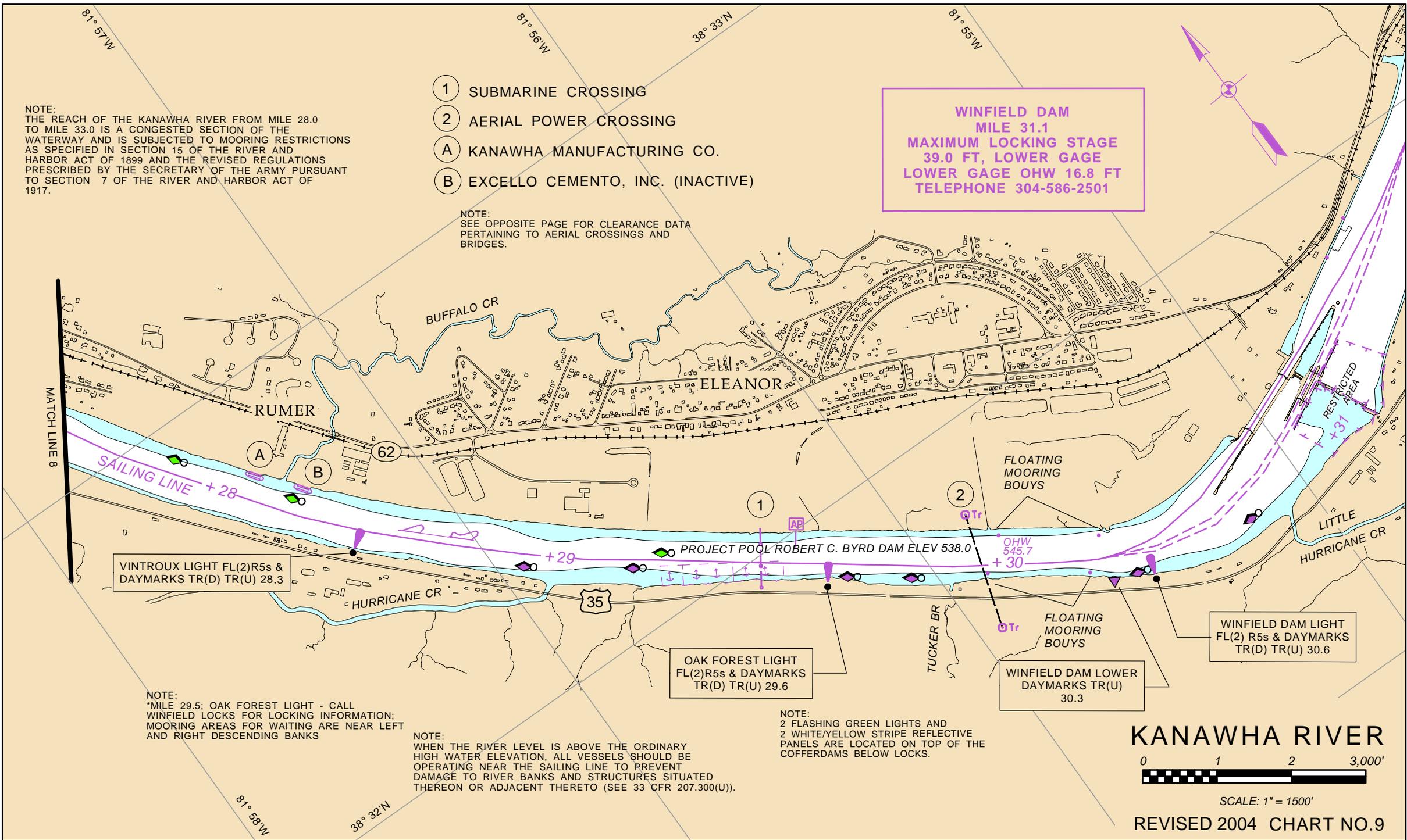
WINFIELD
 Locks And Dam
 Mile 31.1

NOTE:
THE REACH OF THE KANAWHA RIVER FROM MILE 28.0 TO MILE 33.0 IS A CONGESTED SECTION OF THE WATERWAY AND IS SUBJECT TO MOORING RESTRICTIONS AS SPECIFIED IN SECTION 15 OF THE RIVER AND HARBOR ACT OF 1899 AND THE REVISED REGULATIONS PRESCRIBED BY THE SECRETARY OF THE ARMY PURSUANT TO SECTION 7 OF THE RIVER AND HARBOR ACT OF 1917.

- ① SUBMARINE CROSSING
- ② AERIAL POWER CROSSING
- A KANAWHA MANUFACTURING CO.
- B EXCELLO CEMENTO, INC. (INACTIVE)

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

WINFIELD DAM
MILE 31.1
MAXIMUM LOCKING STAGE
39.0 FT, LOWER GAGE
LOWER GAGE OHW 16.8 FT
TELEPHONE 304-586-2501



VINTROUX LIGHT FL(2)R5s & DAYMARKS TR(D) TR(U) 28.3

OAK FOREST LIGHT
FL(2)R5s & DAYMARKS
TR(D) TR(U) 29.6

WINFIELD DAM LOWER
DAYMARKS TR(U)
30.3

WINFIELD DAM LIGHT
FL(2) R5s & DAYMARKS
TR(D) TR(U) 30.6

NOTE:
*MILE 29.5; OAK FOREST LIGHT - CALL WINFIELD LOCKS FOR LOCKING INFORMATION; MOORING AREAS FOR WAITING ARE NEAR LEFT AND RIGHT DESCENDING BANKS

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

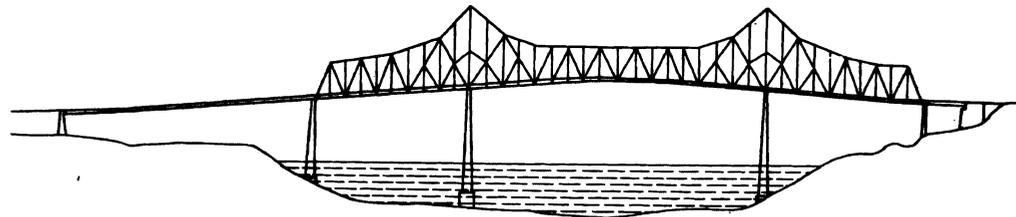
NOTE:
2 FLASHING GREEN LIGHTS AND 2 WHITE/YELLOW STRIPE REFLECTIVE PANELS ARE LOCATED ON TOP OF THE COFFERDAMS BELOW LOCKS.

KANAWHA RIVER



SCALE: 1" = 1500'

REVISED 2004 CHART NO.9

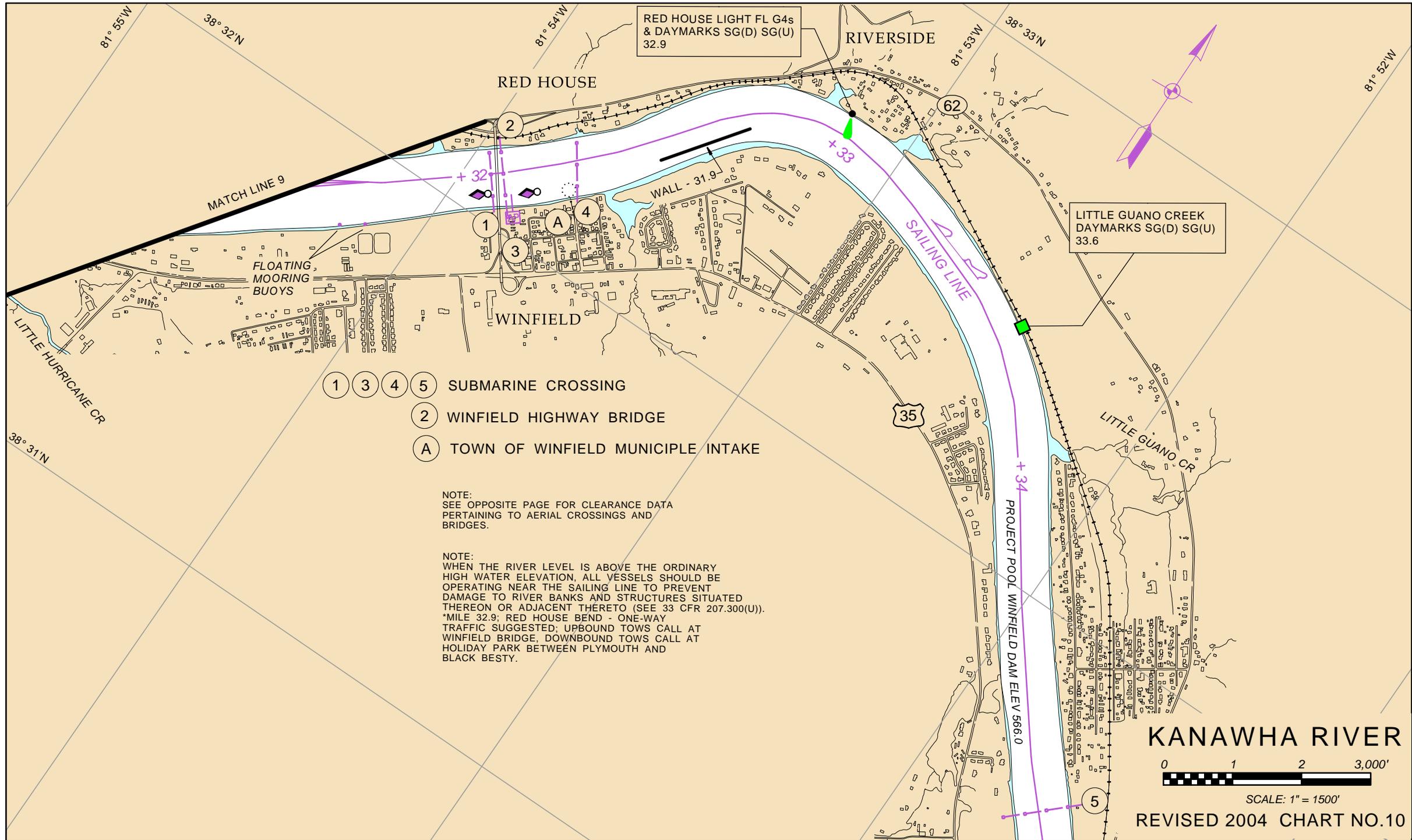


②

WINFIELD HIGHWAY BRIDGE (LOOKING DOWNSTREAM)

CHANNEL SPAN

	MIDDLE OF SPAN	
	AT CENTER 450' WIDTH	
ELEVATION OF LOW STEEL	630.4'	626.0'
VERTICAL CLEARANCE AT POOL STAGE	64.4'	60.0'
VERTICAL CLEARANCE-1861 H.W.	47.4'	43.0'
HORIZONTAL CLEARANCE	450.0	



RED HOUSE LIGHT FL G4s
& DAYMARKS SG(D) SG(U)
32.9

LITTLE GUANO CREEK
DAYMARKS SG(D) SG(U)
33.6

- (1) (3) (4) (5) SUBMARINE CROSSING
- (2) WINFIELD HIGHWAY BRIDGE
- (A) TOWN OF WINFIELD MUNICIPAL INTAKE

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

NOTE:
WHEN THE RIVER LEVEL IS ABOVE THE ORDINARY
HIGH WATER ELEVATION, ALL VESSELS SHOULD BE
OPERATING NEAR THE SAILING LINE TO PREVENT
DAMAGE TO RIVER BANKS AND STRUCTURES SITUATED
THEREON OR ADJACENT THERETO (SEE 33 CFR 207.300(U)).
*MILE 32.9; RED HOUSE BEND - ONE-WAY
TRAFFIC SUGGESTED; UPBOUND TOWS CALL AT
WINFIELD BRIDGE, DOWNBOUND TOWS CALL AT
HOLIDAY PARK BETWEEN PLYMOUTH AND
BLACK BESTY.

KANAWHA RIVER



SCALE: 1" = 1500'

REVISED 2004 CHART NO.10