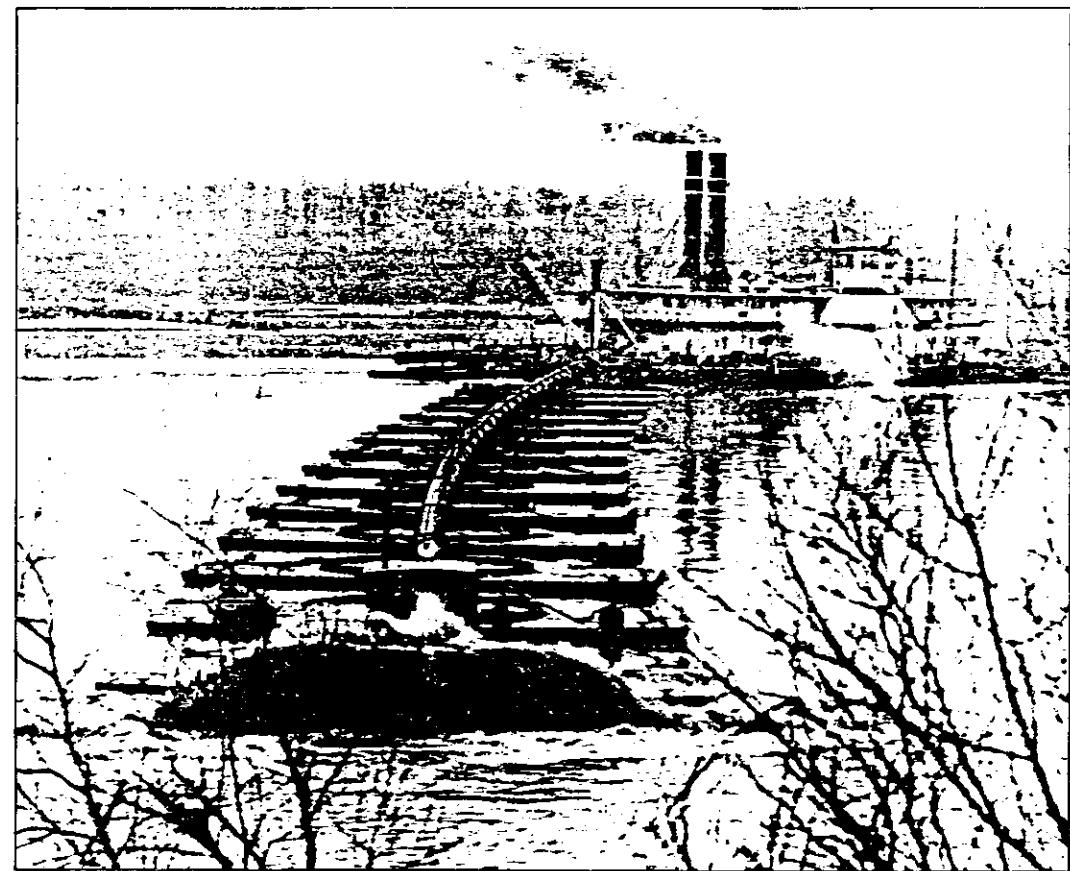




**US Army Corps
of Engineers**
Omaha District

Missouri River Navigation Charts

**Sioux City, Iowa To
Kansas City, Missouri**



THE MISSOURI RIVER

The Missouri River originates in southwestern Montana and flows in a southeasterly direction about 2,315 miles to join the Mississippi River approximately 15 miles upstream from St. Louis, Missouri. The mileage on the Missouri River is measured upstream from the confluence of the Missouri and Mississippi Rivers, mile 0.0.

NAVIGATION

The Corps of Engineers has the responsibility under Congressional authorization for the construction, operation and maintenance of the Missouri River for navigation, flood control and related purposes, including flow regulation and bank protection. The navigation project extends from Sioux City, Iowa to the mouth, a distance of 734 miles. The completed project provides a continuous navigation channel 9' deep and 300' wide, which is designed to flow along the concave side of the bends and through the crossing between bends.

The commercial navigation season is normally from latter March to latter November at Sioux City, and from the first of April to the first of December at the mouth. Ice conditions and low water preclude navigation the rest of the year. Specific minimum flow rates are required during the navigation season to provide adequate depths and width. To meet this, insufficient natural flows are augmented by releases from upstream reservoirs. A flow of 30,000 to 35,000 cubic feet per second is generally maintained at Sioux City and Omaha, and 35,000 to 40,000 cubic feet per second at Kansas City. During the navigation season, river stages vary from a range of about one foot at Sioux City to around 15 feet at Hermann, Mo., and the velocity of the flow varies from 2 1/2 to 7 miles per hour.

NAVIGATION (CON'T)

Charts covering the navigable portion of the Missouri River in two volumes may be obtained from the offices listed below. Orders for charts submitted by mail should be accompanied by check or money order payable to the "Omaha District, Corps of Engineers".

District Engineer

U. S. Army Engineer District, Omaha
Corps of Engineers
215 North 17th Street
Omaha, Nebraska 68102-4978

District Engineer

U. S. Army Engineer District, Kansas City
Corps of Engineers
700 Federal Building
Kansas City, Missouri 64106-2896

The latest information concerning navigation aids, or boating regulations and requirements may be obtained from the following office:

Commander

Second Coast Guard District
1430 Olive

St. Louis, Missouri 63103

TEL: 314-425-4604 Aids to Navigation (Commercial)
TEL: 314-425-5971 Boating Information

INDEX

| | | | |
|-----------------------------------|----------------|--|--------------|
| General Notes and Index | Sheet A | Recreation Facilities | Sheet I |
| Safe Boating | Sheet B | Marine VHF Stations | Sheets J,K |
| Aids To Navigation | Sheet C | Mileage Chart | Sheet L |
| Legend | Sheet D | Index to Navigation Charts . . . | Sheets M,N,O |
| River Terminals & Facilities . | Sheets E,F,G,H | Navigation Charts . . . Nos. 1 to 74 inc | |

FOR SAFE BOATING

BEFORE YOU WEIGH ANCHOR . . .

- Small boat operators should have a working knowledge of the basic maritime rules and regulations. These are covered in Coast Guard publication CG-184, "Rules of the Road, Western Rivers," available from Commander, Second Coast Guard District, St. Louis, Mo., or the U. S. Government Printing Office, Washington, D.C. Federal requirements for motorboats are contained in CG-290.
- The law requires Coast Guard approved life jackets for all passengers. Be water wise and wear yours while afloat.
- Maintain all required equipment in ship-shape condition. Check State and Federal laws.
- Equip your boat with a first aid kit, oars or paddles, and an anchor with a minimum of 100' of line for use in emergencies.
- Do not overpower or overload your boat. Remember, the number of seats does not indicate capacity.
- Always inform another person of your boating intentions – where you are going and when you intend to return. Stay ashore in threatening weather, or visibility is poor.
- Obey all fire safety rules when filling with gasoline. Gasoline vapors are explosive, and being heavier than air will settle in the lower parts of a boat.
- Always carry a portable radio for receiving weather forecasts or storm warnings.

WHILE NAVIGATING . . .

- Avoid navigating close to pile or rock structures. It is particularly hazardous to navigate immediately upstream or off end of dikes. Some dike ends are submerged and not visible.
- Yield the right-of-way to all large commercial tows. It is impossible for tows to maneuver to any degree or to stop, due to the swift current and narrow channel wherein they are limited to operate.
- Avoid navigating in the vicinity of construction work or dredging operations.
- Avoid bridge piers since the river is very swift and turbulent around them.
- Beware of sand bars, drift and snags when operating out of the buoys channel.
- Observe all port regulations. Navigate in the vicinity of port areas with caution.
- Always stay alert for other boats, fisherman, and partly submerged logs. Be courteous – watch your wake. Travel in the buoys channel.
- Don't anchor in a buoys channel.
- If your boat capsizes or swamps, hang on to it. Do not try to swim to shore. "Swim" the capsized boat toward safety.
- Land your craft headed upstream when operating in the current of the river. Downstream landings are dangerous in swift current.

AIDS TO NAVIGATION

The Coast Guard has the responsibility of maritime law enforcement, providing navigational aids to maritime commerce, saving life and property, and for the promotion of small boat safety on navigable waters by virtue of the Federal Boating Act of 1958.

Aids to navigation on the Missouri River are maintained by the Coast Guard during the navigation season from Sioux City to the mouth. The aids include lights, daymarks and unlighted buoys. The daymarks and the buoys have reflectors or reflector material to increase nighttime visibility.

Black can buoys mark the right-hand side of the channel and red nun buoys mark the left-hand side of the channel as observed looking downstream.

Buoys are set to mark the maximum navigation channel available considering channel alignment, the prevailing river stage, and obstructions. They do not appear on these charts since they are moved frequently as channel changes occur.

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, or sunk by collision or other causes. When carried off position, destroyed, or removed to prevent loss, buoys are replaced at the earliest opportunity.

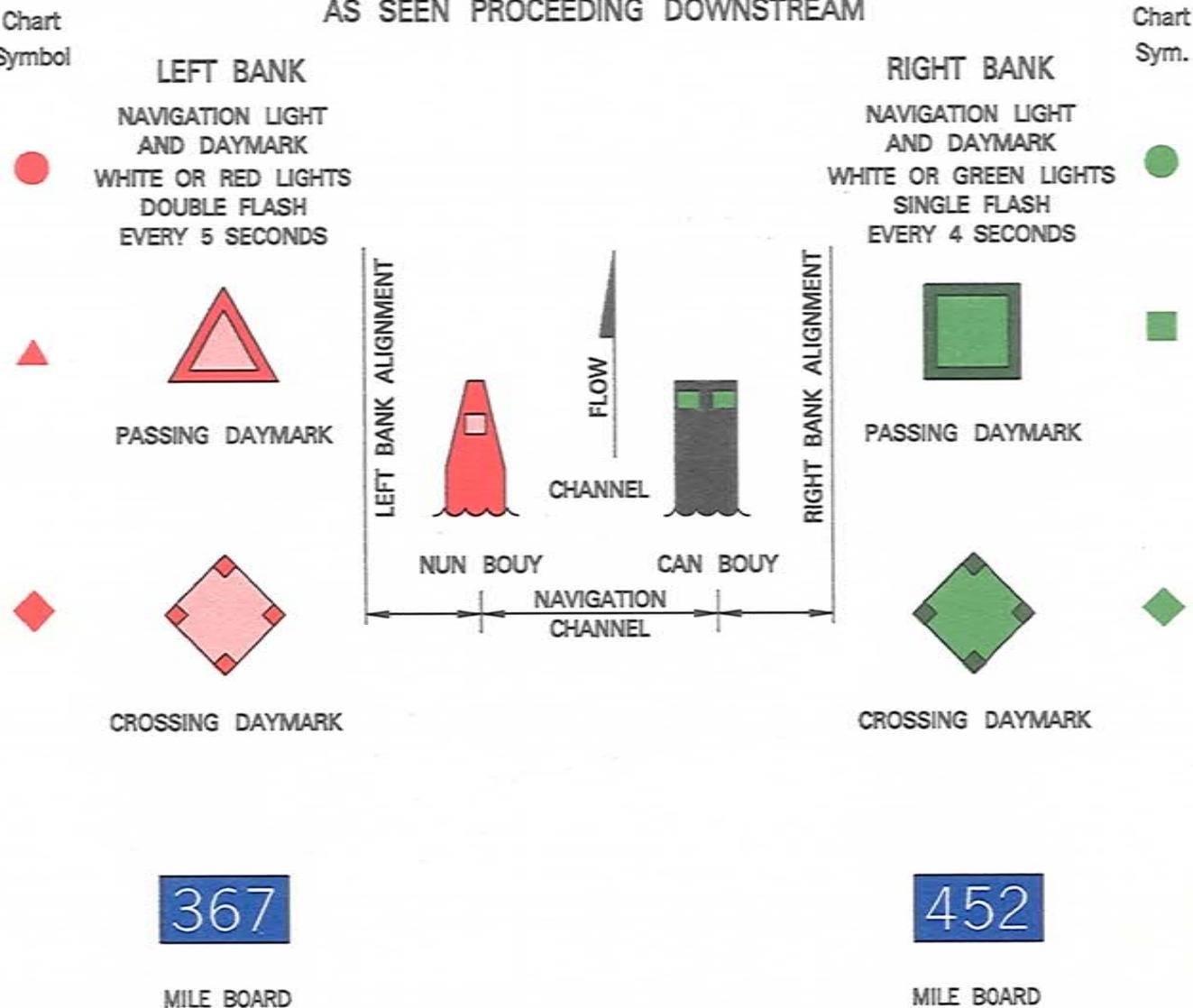
Lights and daymarks are shown in approximate locations.

Bridges are lighted for nighttime navigation safety. Piers display the warning red light, while navigable channel spans are marked with a green light.

Mile markers showing channel mileage above the mouth are maintained by the Corps of Engineers. These are large blue sign boards with the mileage indicated in silver figures. Mile markers appear every mile on either the right or left bank, usually on the concave side.

AIDS TO NAVIGATION

AS SEEN PROCEEDING DOWNSTREAM



367

MILE BOARD

452

MILE BOARD

LEGEND

| | | | | | |
|--|--|---------------------------|--|--|--|
| Bridge Road and Railroad | | Road | | Navigation Light-See Plate C | |
| Swing Bridge Road and Railroad | | State Road | | Passing Daymark-See Plate C | |
| Vertical Lift Bridge Road and Railroad | | Federal Road | | Crossing Daymark-See Plate C | |
| Overhead Power Crossings | | Interstate Road | | Private Lights | |
| Telephone Overhead Crossing | | Railroad (Single) | | Steering Direction Box (For Commercial Tows) | |
| Pipeline Overhead Crossing | | Railroad (Multiple Track) | | Gage | |
| Submarine Crossing | | Flow Arrow | | Mile Number | |
| Dike | | Sailing Line | | Commercial Dock | |
| Submerged Dike | | | | Boat Landing | |
| Revetment riverward of water's edge | | | | Dock | |
| Revetment | | | | Ramp | |
| Levee | | | | Intake Structure | |

COMMERCIAL RIVER TERMINALS AND FACILITIES

| TERMINALS | FACILITIES | LOCATION | | | OPERATOR | | |
|---|--|--------------------|---------|------|---|---|--------------|
| | | TOWN | MILE | BANK | NAME | ADDRESS | PHONE |
| Sioux City Municipal Dock | Temporary dock | Sioux City, IA | 731. 3 | L | City | --- | --- |
| Kay Dee Feed Co. (Nutra Flo) | Molasses & fertilizer unloading; tallow loading | Sioux City, IA | 731. 2 | L | Kay Dee Feed Co. | 1919 Grand Ave. Sioux City, IA 51107 | 712-277-2011 |
| Big Soo Terminal | Terminal dock | Sioux City, IA | 727. 8 | L | Terminal Grain Corp | P. O. Box 3809 Sioux City, IA 51102 | 712-258-0537 |
| Jebro, Inc. | Asphalt unloading & storage | Sioux City, IA | 727. 5 | L | Jebro, Inc. | P. O. Box 2303 Sioux City, IA 51111 | 712-277-8855 |
| Sioux By-Products | Loading dock -Tallow | Sioux City, IA | 727. 0 | L | Sioux By-Products | P. O. Box 1824 Sioux City, IA 51102 | 712-258-4742 |
| Terra Chemicals, Int'l. | Fertilizer loading | Sioux City, IA | 718. 7 | L | Terra Chemicals | Terra Centre, 600 4 th Sioux City, IA 51101 | 712-277-1340 |
| AG Processing | Bulk loading dock | Sioux City, IA | 717. 0 | L | AG Processing | Box 200 Sergeant Bluffs, IA 51054 | 712-943-4282 |
| AG Processing | Bulk loading dock | Sioux City, IA | 717. 0 | L | AG Processing | Box 200 Sergeant Bluffs, IA 51054 | 712-943-4282 |
| Farmer Elevator Co-op Co. | Grain loading | Blencoe, IA | 680. 6 | L | Farmer Elevator Co-op Co. | Box 79 Blencoe, IA 51523 | 712-452-2271 |
| Agrico chemical | Fertilizer storage | Blair, NE | 648. 5 | R | Gulf Oil Corp. | Box 365, Blair, Industrial Rd NE 68008 | 402-426-4164 |
| Consolidated Blenders, Inc. | Barge loading | Blair, NE | 648. 2 | R | Consolidated Blenders | Box 251, Blair, Industrial Rd NE 68008 | 402-426-4504 |
| Agricultural Minerals Corp. (A.M.C.) | Fertilizer unloading and Storage | Blair, NE | 647. 7 | R | Agricultural Minerals Corp. | Box 365, Industrial Rd NE 68008 | 402-426-4164 |
| Ft. Calhoun Stone Co. Terminal | Rock unloading | Ft. Calhoun, NE | 640. 4 | R | Jess Wright , President | Ft. Calhoun, NE 68023 | 402-468-5666 |
| Pentzien, Inc. Boatways | Launching ways (hoist) | Omaha, NE | 624. 5 | R | Pentzien, Inc. | 6969 Grover Omaha, NE 68106 | 402-397-7800 |
| Missouri Portland Cement Co. | Cement Barge unloading | Omaha, NE | 624. 2 | R | Missouri Portland Cement Co. | 1106 Ida Omaha, NE 68112 | 402-453-6433 |
| American Commercial Marine Services (Heartland Terminal) (ACMS) | Fertilizer unloading | Omaha, NE | 624. 0 | R | American Commercial Marine Services | 6801 No. 9th St. Omaha, NE 68112 | 402-453-8700 |
| Cargill, Inc. Molasses Terminal (North) | Molasses Unloading facility | Omaha, NE | 616. 3 | R | Cargill, Inc. | 701 Abbott Drive Omaha, NE 68102 | 402-344-4750 |
| Omaha Municipal Dock: American Commercial Marine Services | Unloading facility | Omaha, NE | 616. 3 | R | American Commercial Marine Services for City of Omaha | 701 Abbott Drive Omaha, NE 68102 | 402-341-1300 |
| Koch Materials | Unloading & Loading Asphalt, Fuel oil & Kerosine | Council Bluffs, IA | 614. 55 | L | Koch Materials | 2200 River Road, Council Bluffs, 1A 51502 | 712-323-3223 |
| Farmland Industries, Inc. | Fertilizer unloading | Council Bluffs, IA | 614. 55 | L | Farmland Industries, Inc. | 2301 So. 37th St. Council Bluffs, IA 51501 | 712-322-8287 |

COMMERCIAL RIVER TERMINALS AND FACILITIES

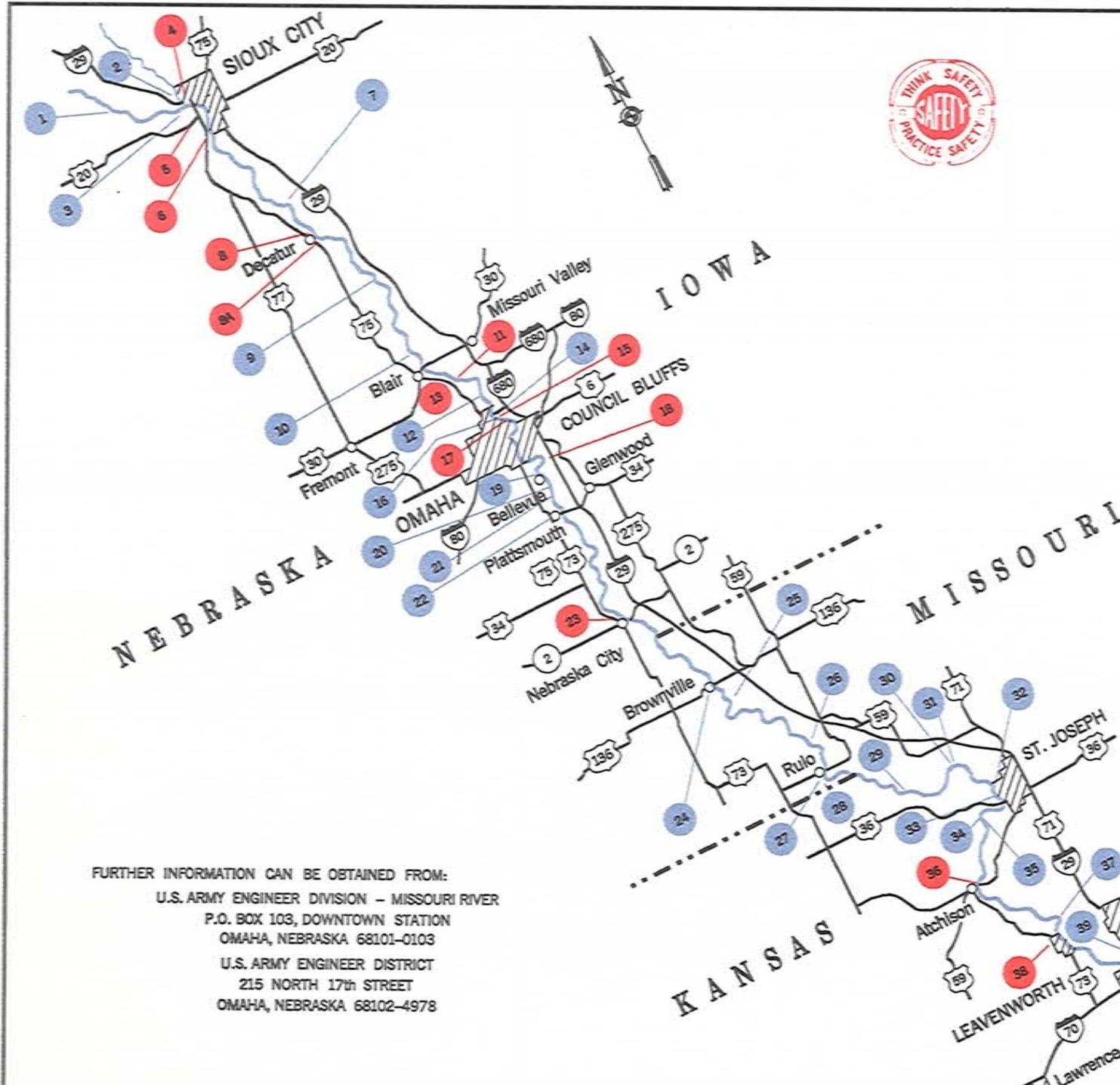
| TERMINALS | FACILITIES | LOCATION | | | OPERATOR | | |
|---|---|--------------------|---------|------|---|---|--------------|
| | | TOWN | MILE | BANK | NAME | ADDRESS | PHONE |
| Cargill, Inc. Terminal | Loading facility for grain, feed, salt & fertilizer | Council Bluffs, IA | 614. 4 | L | Cargill, Inc. | 2401 So. 37th St. Council Bluffs, IA 51501 | 712-323-9481 |
| Terminal Packaging Corp. | Anti-freeze unloading | Council Bluffs, IA | 614. 1 | L | Terminal Packaging Corp. | 2850 River Road Council Bluffs, IA 51501 | 712-323-9802 |
| Cargill Molasses Terminal (South) | Molasses unloading | Omaha, NE | 612. 2 | R | Cargill, Inc. | 701 Abbott Drive Omaha, NE 6857 | 402-344-4750 |
| Arcadian (AAC Holdings, Inc.-E.F. Hutton) | Liquid fertilizer loading & unloading | Omaha, NE | 595. 3 | R | Arcadian | C. S. Call Services. 7354 Bellevue, NE 68005 | 402-291-0090 |
| Nehewka Farmers Co-op | Grain loading | Rock Bluff, NE | 584. 5 | R | Nehewka Farmer Co-op | P. O. Box 157 Nehewka, NE 68413 | 402-227-2715 |
| Steinhart Bulk Plant Terminal | Liquid fertilizer unloading; tallow loading | Nebraska City, NE | 562. 6 | R | Sioux City & New Orleans Term., Inc. | East Central Ave Nebraska City, NE 68410 | 402-873-3381 |
| Nebraska City Municipal Dock | Wooden platform, 60-ft boom | Nebraska City, NE | 562. 4 | R | --- | Nebraska City, NE | --- |
| Barlett Grain Co. Terminal | Grain loading, elevator & conveyor | Nebraska City, NE | 562. 4 | R | Bartlett Grain Co. | Box 636 Nebraska City, NE 68410 | 402-873-3465 |
| Steinhart Terminal Dock | Dock & warehouse | Nebraska City, NE | 562. 3 | R | Sioux City & New Orleans Term., Inc. | Nebraska City, NE | 402-873-3381 |
| De Brace Grain, Inc. | Grain loading, elevator & conveyor | Nebraska City, NE | 561.8 | R | De Brace Grain, Inc. | 500 First Terrace Nebraska City, NE 68410 | 402-873-6684 |
| Continental Grain Comnpagny | Grain loading, elevator and conveyor | Brownville, NE | 535. 5 | R | Continental Grain Company | Box 7, Brownville, NE 68321 | 402-825-3661 |
| Kentopp Grain Co. Terminal | Grain loading | Brownville, NE | 535. 25 | R | Kentopp Elevator Co. | P. O. Box 188 Brownville, NE 68321 | 402-825-3351 |
| Quad State Terminal, Inc. | Fertilizer unloading | Mound City, MO | 503. 0 | L | Quad State Terminal, Inc. | Mound City, MO | 816-683-5341 |

COMMERCIAL RIVER TERMINALS AND FACILITIES

| TERMINALS | FACILITIES | LOCATION | | | OPERATOR | | |
|--------------------------------------|--|--------------------|-------|------|-------------------------------|--|------------------------------|
| | | TOWN | MILE | BANK | NAME | ADDRESS | PHONE |
| White Cloud Grain Co. | Grain loading dock | White Cloud, Kans. | 488.0 | R | Owner | White Cloud, Kans. | 913-595-3254 |
| Buffalo Hollow Quarry | Rock loading dock | Sparks, Kans. | 478.0 | R | West Lake Quarry Material Co. | 13570 St. Charles Rock Road Bridgeton, Mo. | 314-739-1122 |
| Mount Vernon Quarry | Rock loading dock | Sparks, Kans. | 473.6 | R | West Lake Quarry Material Co. | 13570 St. Charles Rock Road Bridgeton, Mo. | 314-739-1122 |
| Island Marina | Gas, Docking Facility and Food | Nodaway, Mo. | 462.6 | L | Owner | Nodaway, Mo. | 816-475-2941 |
| Holiday Sand and Gravel Co., | Sand and gravel unloading dock | St. Joseph, Mo. | 447.6 | L | Owner | 2 nd & Walnut St. Joseph, Mo. | 816-232-7771 |
| Bartlett and Company, Inc. | Grain loading dock | St. Joseph, Mo. | 446.6 | L | Owner | P.O. Box 967, St. Joseph, Mo. | 816-238-4561 |
| AG. Processing | Dock with derrick, grain conveyor | St. Joseph, Mo. | 446.1 | L | Owner | 900 Lower Lake Rd., St. Joseph, Mo. | 816-238-1700 |
| Farmland Industries, Inc. | Chemical unloading dock | St. Joseph, Mo. | 445.4 | L | Owner | P.O. Box 788, St. Joseph, Mo. | 816-238-8111 |
| Maczuk, Inc. | Fertilizer unloading dock | Atchison, Kans. | 423.2 | R | Owner | P.O. Box 391, Atchison, Kans. | 913-367-2272 |
| Elders Grain, Inc. | Grain loading conveyor and dock | Atchison, Kans. | 423.1 | R | Owner | Route No. 3, Atchison, Kans. | 913-367-1621 |
| Atchison Municipal Dock | Loading dock | Atchison, Kans. | 423.0 | R | Owner | City Hall, Atchison, Kans. | 913-367-5081 |
| Atchison Dock | Loading and unloading dock | Atchison, Kans. | 421.1 | R | Owner | 812 Main St., Atchison, Kans. | 913-367-0318 |
| Atchison County Co-op Association | Grain loading dock | Atchison, Kans. | 420.9 | R | Owner | 812 Main St., Atchison, Kans. | 913-367-0318 |
| U.S. Coast Guard (Leavenworth) | Transfer of Goverment materials and dock | Leavenworth, Kans. | 397.3 | R | U.S. Coast Guard | U.S.C.G. Aids to Navigation Box 350, Leavenworth, Kans. | 319-524-7511 816-374-6550 |
| Leavenworth Municipal Dock | Dock | Leavenworth, Kans. | 396.1 | R | Owner | City Hall, Leavenworth, Kans. | 913-682-9201 |
| Smoot Grain Co. | Grain loading dock | Wolcott, Kans. | 386.5 | R | Owner | 10520 Walcott Drive, K. C. ,Kans. | 913-788-7226 |
| (Salina Terminal Elevator Co.) | Molasses unloading dock | Wolcott, Kans. | 386.4 | R | Owner | 10520 Walcott Drive, K. C. ,Kans. | 913-299-4335 |
| Cargill, Inc. | Sand and gravel unloading dock | Wolcott, Kans. | 386.2 | R | Owner | 6811 W. 63rd St., Overland Park, Kans. | 913-236-5920 |
| Holiday Sand and Gravel Co. | Construction materials and rock loading dock | Parkville, Mo. | 385.0 | L | Owner | 8901 State line, K.C., Mo | 816-523-1000 |
| Massman Constr. Co., Inc. | Sand and gravel unloading dock | Parkville, Mo. | 378.3 | L | Owner | 6811 W. 63rd St., Overland Park, Kans. | 913-236-5920 |
| Holiday Sand and Gravel Co. | Bulk petroleum storage | Parkville, Mo. | 376.3 | L | Owner | 8805 45Hwy, Parkville, Mo. | 816-741-4164 |
| Texaco oil Co. | Loading and unloading dock | Parkville, Mo. | 375.6 | L | Intercontinental Engineering | P.O. Box 9055, K.C., Mo. | 816-741-0700 |
| Intercontinental Engrg and Mfg., Co. | Grain loading dock | Kansas City, Kans. | 373.0 | R | Owner | 940 Kinderberger Rd. K.C., Kans. | 913-459-6000 |
| Union Equity Co-op | Bulk and liquid unloading dock | Kansas City, Kans. | 372.4 | R | Owner | 900 Kinderberger Rd., K.C., Kans. | 913-371-3880 |
| Bennett Rogers Pipe Coating, Inc. | Liquid fertilizer solutions unloading dock | Kansas City, Kans. | 368.2 | R | Owner | 401 E. Donovan, K.C., Kans. | 913-281-2445 |
| Williams Bros. Pipeline Fertilizer | Grain loading dock | Kansas City, Kans. | 367.7 | R | Owner | Board of Trade, K.C., Mo. | 816-753-6300 |
| Bartlett and Company, Inc. | | | | | | | |

COMMERCIAL RIVER TERMINALS AND FACILITIES

| TERMINALS | FACILITIES | LOCATION | | | OPERATOR | | |
|-------------------------------------|-------------------------------------|--------------------|-------|------|----------|---|--------------|
| | | TOWN | MILE | BANK | NAME | ADDRESS | PHONE |
| Kansas City , Kans. Public Terminal | Loading and unloading dock | Kansas City, Kans. | 367.7 | R | Owner | | |
| Missouri River Queen | Loading and unloading dock | Kansas City, Kans. | 367.4 | R | Owner | 1 River City Drive, K. C., Ks. | 913-281-5300 |
| Midwest Term. Warehouse Co. | Grain loading dock and warehouse | Kansas City, Mo. | 367.1 | R | Owner | 5750 E. Front St. , K.C., Mo. | 816-231-8811 |
| K. C. , Mo. Public Terminal | Loading and unloading dock | Kansas City, Mo. | 367.1 | R | Owner | 5750 E. Front St., K.C., Mo. | 816-231-8811 |
| Amer. Compressed Steel Co. | Scrap steel loading dock | Kansas City, Kans. | 366.9 | R | Owner | 407 Liberty St., K.C., Mo. | 816-842-7372 |
| Kansas City, Mo. | Warehouse dock and platform | Kansas City, Mo. | 365.9 | R | Owner | 414 E 12, K.C., Mo. | 816-274-2565 |
| Kansas City, Mo. | Loading dock | Kansas City, Mo. | 365.4 | R | Owner | 414 E 12, K.C., Mo. | 816-274-2565 |
| Gargill Grain, Inc. | Grain loading dock | Kansas City, Mo. | 364.2 | R | Owner | Board of Trade K.C. Mo. | 816-756-0587 |
| Brochers Fuel | Fuel dock | Kansas City, Mo. | 364.1 | R | Owner | 3640 Front St. K.C., Mo. | 816-224-2415 |
| Continental Grain Co. | Grain loading dock | Kansas City, Mo. | 361.6 | L | Owner | 4801 NE. Birmingham Rd., K.C., MO. | 816-452-2161 |
| K. C. Terminal Elevator Co. | Grain loading dock | Randolph, Mo. | 361.0 | L | Owner | 5801 NE Birmingham Rd. Randolph,Mo. | 816-452-3122 |
| Chemtech Corp. | Chemical loading and unloading dock | Randolph, Mo. | 360.6 | L | Owner | 6301 NE Birmingham Rd. Randolph,Mo. | 816-454-8244 |
| La Moth landing | Coke loading and unloading dock | Randolph, Mo. | 360.4 | L | Owner | 5750 E. Front St., K.C., Mo. | 816-231-8811 |
| Holliday Sand & Gravel Co. | Haydite loading dock | Randolph, Mo. | 360.1 | L | Owner | 6811 W. 63rd St., Overland Park, Ks. | 913-236-5920 |
| Holliday Sand & Gravel Co. | Sand and gravel unloading dock | Randolph, Mo. | 360.1 | L | Owner | 6811 W. 63rd St., Overland Park, Ks. | 913-236-5920 |
| Armco Steel Co. | Scrap steel unloading dock | Sugar Creek, Mo. | 357.6 | R | Owner | 7000 Roberts St., K.C., Mo. | 816-242-5100 |
| Amoco Oil Co. (Distribution Center) | Unloading dock | Sugar Creek, Mo. | 356.6 | R | Owner | 1000 N. Sterling, Sugar Creek, Mo. | 816-836-6000 |
| Kansas City River Terminal | Fertilizer unloading dock | Sugar Creek, Mo. | 355.8 | R | Owner | 4200 N. Cement City RD., Sugar Creek, Mo. | 816-461-3570 |
| Chevron Chemical Co. | Fertilizer unloading dock | Sugar Creek, Mo. | 355.8 | R | Owner | 4200 N. Cement City RD., Sugar Creek, Mo. | 816-461-3570 |
| Mo. Portland Cement Co. | Cement loading dock | Sugar Creek, Mo. | 354.8 | L | Owner | P.O. Box 517, Independence, Mo. | 816-252-0333 |
| Missouri Rock Quarry, Inc. | Unloading dock | Missouri City, Mo. | 345.7 | L | Owner | Quarry & 210, Missouri City, Mo. | 816-781-6459 |
| Independence Power Plant | Unloading dock | Missouri City, Mo. | 345.3 | L | Owner | 21500 E. Truman Rd., Indep., Mo. | 816-796-4400 |



4 DEVELOPED IN COOPERATION
WITH LOCAL SPONSORS

5 DEVELOPED BY OTHERS

| | BOAT DOCK | BOAT RAMP | GASOLINE | CAMPING | PIT TOILETS | FLUSH TOILETS | SHOWERS | WATER WELLS | DUMP STATION | PICNIC TABLES | PICNIC SHELTERS | PLAYGROUND | CONCESSIONS FOOD | PHONE | LODGING | RIVER MILEAGE | BANK | |
|--------------------------------|-----------|-----------|----------|---------|-------------|---------------|---------|-------------|--------------|---------------|-----------------|------------|------------------|---------|---------|---------------|-------|---|
| 1 PONCA STATE PARK | x | x x x | x x x | x x x | x x x | x x x | x x x | x x x | x x x | x x x | x x x | x x x | x x x | x x x | x x x | 753.5 | R | |
| 2 MO. RIVER BOAT CLUB MARINA | x x x | x x x | | | | | | | | | | | | | | * 1.4 | L | |
| 3 COVINGTON MARINA | x x | | | | | | x x | | | | | | | | | 732.6 | R | |
| 4 SIOUX CITY MARINA | x x x | | | | | | x | | | | | | | | x x x | 732.6 | L | |
| 5 SCENIC PARK | x x | x x | x x x | x x x | x x x | x x x | x x x | x x x | x x x | x x x | x x x | x x x | x x x | x x x | x x x | 731.9 | R | |
| 6 COTTONWOOD COVE PARK | x x | x x x | x x x | x x x | x x x | x x x | x x x | x x x | x x x | x x x | x x x | x x x | x x x | x x x | x x x | 725.6 | R | |
| 7 RUTH LIGHTHOUSE MARINA | x x x | x x x | x x x | x x x | x x x | x x x | x x x | x x x | x x x | x x x | x x x | x x x | x x x | x x x | x x x | 699.5 | L | |
| 8 DECATUR MARINA | x x x | x x x | x x x | x x x | x x x | x x x | x x x | x x x | x x x | x x x | x x x | x x x | x x x | x x x | x x x | 691.3 | R | |
| 9 BECK MEMORIAL PARK | x x x | x x x | x x x | x x x | x x x | x x x | x x x | x x x | x x x | x x x | x x x | x x x | x x x | x x x | x x x | 691.0 | R | |
| 10 PELICAN POINT STATE REC. | x x | x x | x x | x x | x x | x x | x x | x x | x x | x x | x x | x x | x x | x x | x x | 672.8 | R | |
| 11 COTTONWOOD MARINA | x x x | x x x | x x x | x x x | x x x | x x x | x x x | x x x | x x x | x x x | x x x | x x x | x x x | x x x | x x x | 651.4 | R | |
| 12 PORT HONEY CREEK | x x x | x x x | x x x | x x x | x x x | x x x | x x x | x x x | x x x | x x x | x x x | x x x | x x x | x x x | x x x | 641.0 | L | |
| 13 DODGE MEMORIAL PARK | x x x | x x x | x x x | x x x | x x x | x x x | x x x | x x x | x x x | x x x | x x x | x x x | x x x | x x x | x x x | 627.4 | R | |
| 14 THE NARROWS RIVER ACCESS | x x | x x | x x | x x | x x | x x | x x | x x | x x | x x | x x | x x | x x | x x | x x | 619.3 | L | |
| 15 FREEDOM PARK | | | | | | | | | | | | | | x x | x x | 618.1 | R | |
| 16 ANCHOR INN | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | 618.1 | R | |
| 17 SANDPIPER COVE | x x x | x x x | x x x | x x x | x x x | x x x | x x x | x x x | x x x | x x x | x x x | x x x | x x x | x x x | x x x | 618.0 | R | |
| 18 LONG'S LANDING | x x x | x x x | x x x | x x x | x x x | x x x | x x x | x x x | x x x | x x x | x x x | x x x | x x x | x x x | x x x | 606.3 | L | |
| 19 BELLEVUE YACHT CLUB | x x | x x x | x x x | x x x | x x x | x x x | x x x | x x x | x x x | x x x | x x x | x x x | x x x | x x x | x x x | 601.1 | R | |
| 20 BELLEVUE MARINA | x x x | x x x | x x x | x x x | x x x | x x x | x x x | x x x | x x x | x x x | x x x | x x x | x x x | x x x | x x x | 600.6 | R | |
| 21 WEST BANK MARINA | x x x | x x x | x x x | x x x | x x x | x x x | x x x | x x x | x x x | x x x | x x x | x x x | x x x | x x x | x x x | 598.2 | R | |
| 22 PLATTSMOUTH BOAT RAMP | x x | x x | x x | x x | x x | x x | x x | x x | x x | x x | x x | x x | x x | x x | x x | 591.6 | R | |
| 23 RIVERVIEW PARK | x x | x x | x x x | x x x | x x x | x x x | x x x | x x x | x x x | x x x | x x x | x x x | x x x | x x x | x x x | 563.2 | R | |
| 24 BROWNVILLE BOAT RAMP PARK | x x | x x | x x x | x x x | x x x | x x x | x x x | x x x | x x x | x x x | x x x | x x x | x x x | x x x | x x x | 535.3 | R | |
| 25 LANGDON ACCESS | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | 530.6 | L | |
| 26 THURNAU STATE WILDLIFE AREA | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | 508.7 | L | |
| 27 RULO BOAT DOCK | x | x x x | x x x | x x x | x x x | x x x | x x x | x x x | x x x | x x x | x x x | x x x | x x x | x x x | x x x | 497.9 | R | |
| 28 RULO BOAT RAMP | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | 497.6 | R | |
| 29 PAYNES LANDING | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | 477.1 | L | |
| 30 ISLAND MARINA | x x x | x x x | x x x | x x x | x x x | x x x | x x x | x x x | x x x | x x x | x x x | x x x | x x x | x x x | x x x | 462.6 | L | |
| 31 NODAWAY ISLAND | x x x | x x x | x x x | x x x | x x x | x x x | x x x | x x x | x x x | x x x | x x x | x x x | x x x | x x x | x x x | 462.2 | L | |
| 32 ST. JOSEPH BOAT RAMP | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | 451.9 | L | |
| 33 ROBIDOUX LANDING | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | 449.0 | L | |
| 34 ST. JOSEPH YACHT CLUB | x x | x x | x x | x x | x x | x x | x x | x x | x x | x x | x x | x x | x x | x x | x x | 443.9 | L | |
| 35 WATHENA BOAT RAMP | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | 441.0 | R | |
| 36 INDEPENDENCE PARK | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | 423.0 | R | |
| 37 WESTON BEND STATE PARK | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | 403.1 | L | |
| 38 LEAVENWORTH PARK | x x x x | x x x x | x x x x | x x x x | x x x x | x x x x | x x x x | x x x x | x x x x | x x x x | x x x x | x x x x | x x x x | x x x x | x x x x | x x x x | 397.7 | R |
| 39 ENGLISH LANDING REC. PARK | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | 377.3 | L | |

* ABOVE MOUTH OF BIG SIOUX RIVER

MISSOURI RIVER NAVIGATION CHARTS PUBLIC RECREATION FACILITIES

FACILITIES LISTED ARE CORRECT AT DATE OF
THIS PRINTING, BUT ARE SUBJECT TO CHANGE.

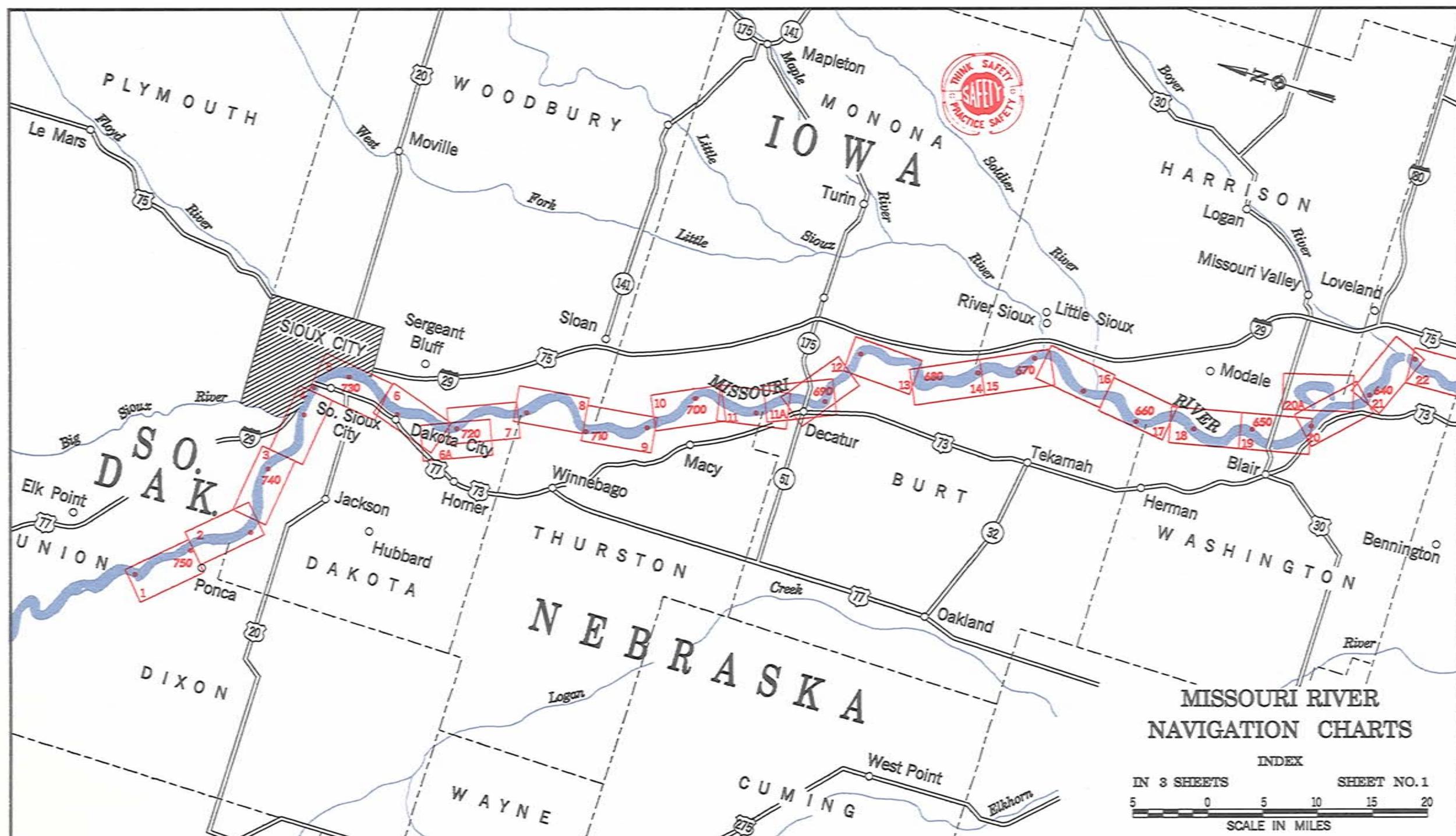
MARINE VHF STATIONS, SIOUX CITY TO KANSAS CITY

| LOCATION | STATION OR AGENCY | CALL SIGN | CHANNELS OF OPERATION | HOURS OF OPERATION | REMARKS |
|--|------------------------------|-------------------------------|--|---|---|
| Sioux City, Iowa | U.S. COAST GUARD AUXILIARY | Coast Guard Auxiliary Station | 16 Emergency and Calling | Weekends & Holidays(Afternoon) During Navigation Season | Local Area Coverage. Mile 735.0 Phone No.: (712)258-8416 (Leave Message) |
| Sioux City, Iowa Sioux City Marine Operator | Commercial | WHF 926 | 16 Emergency and Calling 28 Public Correspondence | Continuous During Navigation Season | Telephone Connection Service. Mile 735.0 Available on Channel 28, Charges Will Be Made For This Service. |
| Cottonwood Marina Blair, Nebraska | Commercial | WHZ 3910 | 16 Emergency and Calling | Continuous During Navigation Season | Local Area Coverage. Mile 651.0 |
| Port of Honey Creek Honey Creek, Iowa | Commercial | WRF 9403 | 16 Emergency and Calling | Continuous During Navigation Season | Local Area Coverage. Mile 632.9 Complete Coverage of Missouri River. Phone No.: (402)221-3040 |
| Omaha, Nebraska Omaha District | U.S. Army Corps of Engineers | VHF 5015 | 16 Emergency and Calling | 7:30AM-4:30PM Monday thru Friday Continuous | Complete Coverage of Missouri River. Phone No.: (402)221-3040 |
| Omaha, Nebraska Omaha Marine Operator | Commercial | KTD 514 | 16 Emergency and Calling 26 Public Correspondence | Continuous During Navigation Season | Telephone Connection Service. Mile 615.0 Available on Channel 26, Charges Will Be Made For This Service. |
| NP Dodge Park Omaha, Nebraska | U.S. COAST GUARD AUXILIARY | Coast Guard Auxiliary Station | 16 Emergency and Calling | Weekends & Holidays(Afternoon) During Navigation Season | Local Area Coverage. Mile 627.0 Phone No.: (402)451-7083 |
| Sandpiper Cove Marina Omaha, Nebraska | Commercial | WRU 5846 | 16 Emergency and Calling | Continuous During Navigation Season | Local Area Coverage. Mile 618.0 |

MARINE VESSEL VHF STATIONS, SIOUX CITY TO KANSAS CITY

| LOCATION | STATION OR AGENCY | CALL SIGN | CHANNELS OF OPERATION | HOURS OF OPERATION | REMARKS |
|--------------------------|---|------------------------------|--|--|---|
| Omaha, Nebraska | Coast Guard Cutter | Coast Guard Gasconade | 06 Intership & Ship To Coast 12 Intership & Ship To Coast 13 Intership 14 Port Operations 16 Emergency and Calling 22 Coast Guard Calling and Broadcast | Continuous | Buoy Operations From Mile 732.3 To Mile 366.1 Phone No.: (402)-221-4712 |
| St Louis, Missouri | Coast Guard Cutter | Coast Guard Cheyenne | Same as Above | Continuous During Navigation Season | Buoy Operations From Mile 366.1 To Mile 0.0 Phone No. (314)-425-6818 |
| Jefferson City, Missouri | Corps of Engineers Tender Cole Tender Platte Towboat Stepheuson Surveyboat-Straub | AEPF AEOJ AERM AEAU | 16 Emergency and Calling Same as Above Same as Above Same as Above | 7:30 A.M. To 4:00 P.M. During Navigation Season 7:30 A.M. To 4:00 P.M. During Navigation Season | Corps of Engineers River Structure Maintenance from Mile 498.4 to 0.0 Phone No. (314)-634-2248 Corps of Engineers Reconnaissance of channel Mile 498.4 to 0.0 Phone No. (314)-634-2248 |
| Napoleon Missouri | Corps of Engineers Surveyboat -Marmaton | AEOR | Same as Above | 7:30 A.M. To 4:00 P.M. During Navigation Season | Corps of Engineers Reconnaissance from Mile 498.4 to 0.0 Phone No. (816)-934-8131 |
| | Towboat Jumbo | AENU | Same as Above | 7:30 A.M. To 4:00 P.M. During Navigation Season | Corps of Engineers River Structure Maintenance of channel Mile 498.4 to 0.0 Phone No. (816)-934-8131 |
| Gasconade, Missouri | Corps of Engineers Surveyboat-Osage III | AEOS | Same as Above | 7:30 A.M. To 4:00 P.M. During Navigation Season | Corps of Engineers Reconnaissance of channel Mile 498.4 to 0.0 Phone No. (314)-294-6411 |
| Omaha, Nebraska | Corps of Engineers: Survey and Inspection-Mandan | AEKR | Same as Above | 7:30 A.M. To 3:30 P.M. During Navigation Season | Corps of Engineers Survey and Inspection as scheduled from Mile 735.0 to 0.0 Phone No. (402)-453-0202 |
| | Tender Brady Fitzhugh | AETX | Same as Above | 7:30 A.M. To 3:30 P.M. During Navigation Season | Corps of Engineers River Structure Maintenance from Mile 735.0 to 498.4 Phone No. (402)-453-0202 |
| | Tender Nebraska City | AEOI | Same as Above | 7:30 A.M. To 3:30 P.M. During Navigation Season | Corps of Engineers River Structure Maintenance from Mile 735.0 to 498.4 Phone No. (402)-453-0202 |
| | Channel Recon Charley Hipp | AEAK | Same as Above | 7:30 A.M. To 3:30 P.M. During Navigation Season | Corps of Engineers Reconnaissance of channel Mile 735 to 498.4 Phone No. (402)-453-0202 |

| RIVER MILEAGE | MISSOURI RIVER | | | | | | | | | | | | | | | | | | | | | | | | | | MISSISSIPPI RIVER | | | | | | | | | | OHIO RIVER | | | | | OTHERS | | | |
|-------------------|----------------|---------|-------|-------|-------------|---------------|------|------------|----------|-------------|-------------|----------|-----------|---------|---------|-----------|----------------|-----------|---------|-------------|-------------------|----------------|---------------|-----------------|----------------|------------------|-------------------|-----------------|------------------|---------------------|------------------------|------------------|------------------|-----------------|------------------|--------------------|--------------|----------------------|--------------------|---------------------|------------------|--------|--|--|--|
| | SIOUX CITY | DECATUR | BLAIR | OMAHA | PLATTSMOUTH | NEBRASKA CITY | RULO | ST. JOSEPH | ATCHISON | LEAVENWORTH | KANSAS CITY | NAPOLEON | LEXINGTON | WAVERLY | GLASGOW | BOONVILLE | JEFFERSON CITY | GASCONADE | HERMANN | ST. CHARLES | MOUTH - MO. RIVER | ST. LOUIS, MO. | GRAFTON, ILL. | ST. PAUL, MINN. | MEMPHIS, TENN. | VICKSBURG, MISS. | NEW ORLEANS, LA. | PITTSBURGH, PA. | WHEELING, W. VA. | PARKERSBURG, W. VA. | POINT PLEASANT, W. VA. | PORTSMOUTH, OHIO | CINCINNATI, OHIO | LOUISVILLE, KY. | EVANSVILLE, IND. | MOUTH - OHIO RIVER | PEORIA, ILL. | CHICAGO - LAKE MICH. | CHATTANOOGA, TENN. | LAKE CHARLES, LA. * | HOUSTON, TEXAS * | | | | |
| SIOUX CITY | 41 | 84 | 116 | 141 | 170 | 234 | 284 | 309 | 335 | 366 | 403 | 415 | 439 | 506 | 636 | 589 | 627 | 634 | 704 | 732 | 747 | 756 | 1376 | 1145 | 1444 | 1652 | 1786 | 1908 | 1818 | 1654 | 1843 | 1552 | 1438 | 1304 | 1116 | 927 | 918 | 1082 | 1438 | 2037 | 2189 | | | | |
| DECATUR | 41 | 43 | 75 | 100 | 129 | 193 | 243 | 268 | 294 | 325 | 362 | 374 | 398 | 465 | 494 | 548 | 586 | 593 | 623 | 663 | 691 | 706 | 714 | 1336 | 1104 | 1403 | 1611 | 1745 | 1867 | 1777 | 1613 | 1802 | 1511 | 1397 | 1263 | 1075 | 886 | 877 | 1041 | 1397 | 1986 | 2148 | | | |
| BLAIR | 84 | 43 | 32 | 57 | 86 | 150 | 200 | 225 | 251 | 282 | 319 | 331 | 355 | 422 | 451 | 505 | 543 | 550 | 580 | 620 | 648 | 663 | 671 | 1292 | 1081 | 1360 | 1588 | 1702 | 1824 | 1734 | 1570 | 1559 | 1468 | 1354 | 1220 | 1032 | 843 | 834 | 998 | 1354 | 1963 | 2105 | | | |
| OMAHA | 116 | 75 | 32 | 25 | 54 | 118 | 168 | 193 | 219 | 250 | 287 | 299 | 323 | 390 | 419 | 473 | 511 | 518 | 548 | 588 | 616 | 631 | 639 | 1260 | 1029 | 1328 | 1536 | 1670 | 1782 | 1702 | 1538 | 1527 | 1436 | 1322 | 1188 | 1000 | 811 | 802 | 966 | 1323 | 1921 | 2073 | | | |
| PLATTSMOUTH | 141 | 100 | 57 | 25 | 29 | 93 | 143 | 168 | 194 | 225 | 262 | 274 | 298 | 365 | 394 | 448 | 486 | 493 | 523 | 563 | 591 | 606 | 614 | 1236 | 1004 | 1303 | 1511 | 1646 | 1767 | 1677 | 1513 | 1502 | 1411 | 1297 | 1163 | 976 | 788 | 777 | 941 | 1297 | 1896 | 2048 | | | |
| NEBRASKA CITY | 170 | 129 | 86 | 54 | 29 | 64 | 114 | 139 | 165 | 198 | 233 | 245 | 269 | 336 | 365 | 419 | 457 | 484 | 494 | 534 | 562 | 577 | 585 | 1206 | 975 | 1274 | 1482 | 1618 | 1738 | 1648 | 1484 | 1473 | 1382 | 1268 | 1134 | 946 | 767 | 748 | 912 | 1268 | 1867 | 2019 | | | |
| RULO | 234 | 193 | 150 | 118 | 93 | 64 | 50 | 75 | 101 | 132 | 169 | 181 | 205 | 272 | 301 | 355 | 393 | 400 | 430 | 470 | 498 | 513 | 521 | 1142 | 911 | 1210 | 1418 | 1552 | 1674 | 1584 | 1420 | 1409 | 1318 | 1204 | 1070 | 882 | 693 | 684 | 848 | 1204 | 1803 | 1955 | | | |
| ST. JOSEPH | 284 | 243 | 200 | 168 | 143 | 114 | 50 | 25 | 51 | 82 | 119 | 131 | 155 | 222 | 251 | 305 | 343 | 350 | 380 | 420 | 448 | 463 | 471 | 1092 | 861 | 1160 | 1368 | 1602 | 1624 | 1534 | 1370 | 1359 | 1268 | 1154 | 1020 | 832 | 643 | 634 | 798 | 1154 | 1753 | 1905 | | | |
| ATCHISON | 309 | 268 | 228 | 193 | 168 | 139 | 75 | 25 | 26 | 57 | 94 | 108 | 130 | 197 | 226 | 280 | 318 | 325 | 355 | 395 | 423 | 438 | 446 | 1087 | 836 | 1135 | 1343 | 1477 | 1599 | 1509 | 1345 | 1334 | 1243 | 1129 | 995 | 807 | 618 | 609 | 773 | 1129 | 1728 | 1880 | | | |
| LEAVENWORTH | 335 | 294 | 251 | 219 | 194 | 166 | 101 | 51 | 26 | 31 | 68 | 80 | 104 | 171 | 200 | 254 | 292 | 299 | 329 | 369 | 397 | 412 | 420 | 1041 | 810 | 1109 | 1317 | 1451 | 1573 | 1483 | 1319 | 1308 | 1103 | 969 | 781 | 592 | 583 | 747 | 1103 | 1702 | 1854 | | | | |
| KANSAS CITY | 366 | 325 | 282 | 250 | 225 | 196 | 132 | 82 | 57 | 31 | 37 | 49 | 73 | 140 | 169 | 223 | 261 | 268 | 298 | 338 | 366 | 381 | 389 | 1010 | 779 | 1078 | 1286 | 1420 | 1542 | 1452 | 1288 | 1277 | 1186 | 1072 | 938 | 750 | 561 | 552 | 716 | 1072 | 1671 | 1823 | | | |
| NAPOLEON | 403 | 362 | 319 | 287 | 262 | 233 | 169 | 119 | 94 | 68 | 37 | 12 | 36 | 103 | 132 | 186 | 224 | 231 | 261 | 301 | 329 | 344 | 352 | 973 | 742 | 1041 | 1249 | 1383 | 1505 | 1415 | 1251 | 1240 | 1149 | 1035 | 901 | 713 | 524 | 516 | 678 | 1035 | 1634 | 1786 | | | |
| LEXINGTON | 415 | 374 | 331 | 299 | 274 | 245 | 181 | 131 | 108 | 80 | 49 | 12 | 24 | 91 | 120 | 174 | 212 | 219 | 249 | 288 | 317 | 332 | 340 | 961 | 730 | 1029 | 1237 | 1371 | 1493 | 1403 | 1239 | 1228 | 1137 | 1023 | 889 | 701 | 512 | 503 | 667 | 1023 | 1622 | 1774 | | | |
| WAVERLY | 439 | 398 | 356 | 323 | 298 | 269 | 205 | 155 | 130 | 104 | 73 | 36 | 24 | 67 | 96 | 150 | 188 | 195 | 225 | 265 | 293 | 308 | 316 | 937 | 706 | 1005 | 1213 | 1347 | 1469 | 1379 | 1215 | 1204 | 1113 | 999 | 885 | 677 | 488 | 479 | 943 | 999 | 1598 | 1750 | | | |
| GLASGOW | 506 | 465 | 422 | 390 | 365 | 336 | 272 | 222 | 197 | 171 | 140 | 103 | 91 | 67 | 29 | 83 | 127 | 128 | 186 | 198 | 226 | 241 | 249 | 870 | 639 | 938 | 1146 | 1280 | 1402 | 1312 | 1148 | 1137 | 1046 | 932 | 798 | 610 | 421 | 412 | 576 | 932 | 1631 | 1683 | | | |
| BOONVILLE | 535 | 494 | 451 | 419 | 394 | 365 | 301 | 261 | 226 | 200 | 169 | 132 | 120 | 96 | 29 | 54 | 92 | 99 | 129 | 169 | 197 | 212 | 220 | 841 | 610 | 909 | 1117 | 1251 | 1373 | 1283 | 1119 | 1108 | 1017 | 903 | 769 | 581 | 392 | 383 | 647 | 903 | 1502 | 1654 | | | |
| JEFFERSON CITY | 589 | 548 | 505 | 473 | 448 | 419 | 355 | 305 | 280 | 254 | 223 | 186 | 174 | 150 | 83 | 54 | 38 | 45 | 75 | 115 | 143 | 158 | 166 | 787 | 556 | 855 | 1063 | 1197 | 1319 | 1229 | 1065 | 1054 | 963 | 849 | 715 | 527 | 338 | 328 | 493 | 849 | 1448 | 1600 | | | |
| GASCONADE | 627 | 588 | 543 | 511 | 486 | 457 | 393 | 343 | 318 | 292 | 261 | 224 | 212 | 188 | 127 | 92 | 38 | 7 | 37 | 77 | 105 | 120 | 128 | 749 | 518 | 817 | 1025 | 1159 | 1281 | 1191 | 1027 | 1016 | 925 | 811 | 677 | 489 | 300 | 291 | 455 | 811 | 1410 | 1562 | | | |
| HERMANN | 634 | 593 | 550 | 518 | 493 | 464 | 400 | 350 | 325 | 299 | 268 | 231 | 219 | 195 | 128 | 99 | 45 | 7 | 30 | 70 | 98 | 113 | 121 | 742 | 511 | 810 | 1018 | 1152 | 1274 | 1184 | 1020 | 1009 | 918 | 804 | 670 | 482 | 293 | 284 | 448 | 804 | 1403 | 1403 | | | |
| WASHINGTON | 664 | 623 | 580 | 548 | 523 | 494 | 430 | 380 | 356 | 329 | 298 | 261 | 249 | 225 | 168 | 129 | 75 | 37 | 30 | 40 | 68 | 83 | 91 | 712 | 481 | 780 | 988 | 1122 | 1244 | 1154 | 990 | 979 | 888 | 774 | 640 | 452 | 263 | 254 | 418 | 774 | 1373 | 1525 | | | |
| ST. CHARLES | 704 | 663 | 620 | 588 | 563 | 534 | 470 | 420 | 395 | 369 | 338 | 301 | 289 | 265 | 198 | 169 | 115 | 77 | 70 | 40 | 28 | 43 | 51 | 672 | 441 | 740 | 948 | 1082 | 1204 | 1114 | 950 | 939 | 848 | 734 | 600 | 412 | 223 | 214 | 378 | 734 | 1333 | 1485 | | | |
| MOUTH - MO. RIVER | 732 | 691 | 648 | 616 | 591 | 562 | 498 | 448 | 423 | 397 | 366 | 329 | 317 | 293 | 226 | 197 | 143 | 105 | 98 | 68 | 28 | 15 | 23 | 644 | 413 | 712 | 920 | 1064 | 1176 | 1086 | 922 | 911 | 820 | 706 | 572 | 384 | 195 | 186 | 350 | 706 | 1305 | 1457 | | | |
| ST. LOUIS, MO. | 747 | 706 | 663 | 631 | 606 | 577 | 513 | 463 | 438 | 412 | 381 | 344 | 332 | 308 | 241 | 212 | 168 | 120 | 113 | 83 | 43 | 15 | 38 | 659 | 398 | 697 | 906 | 1039 | 1161 | 1071 | 977 | 896 | 805 | 691 | 567 | 369 | 180 | 201 | 365 | 691 | 1290 | 1442 | | | |
| GRAFTON, ILL. | 755 | 714 | 671 | 639 | 614 | 586 | 521 | 471 | 446 | 420 | 389 | 352 | 340 | 316 | 249 | 220 | 166 | 128 | 121 | 91 | 51 | 23 | 38 | 621 | 436 | 735 | 947 | 1077 | 1199 | 1109 | 1015 | 934 | 843 | 729 | 595 | 407 | 218 | 163 | 327 | 729 | 1328 | 1480 | | | |
| ST. PAUL, MINN. | 1376 | 1335 | 1292 | 1260 | 1235 | 1206 | 1142 | 1092 | 1067 | 1041</ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |



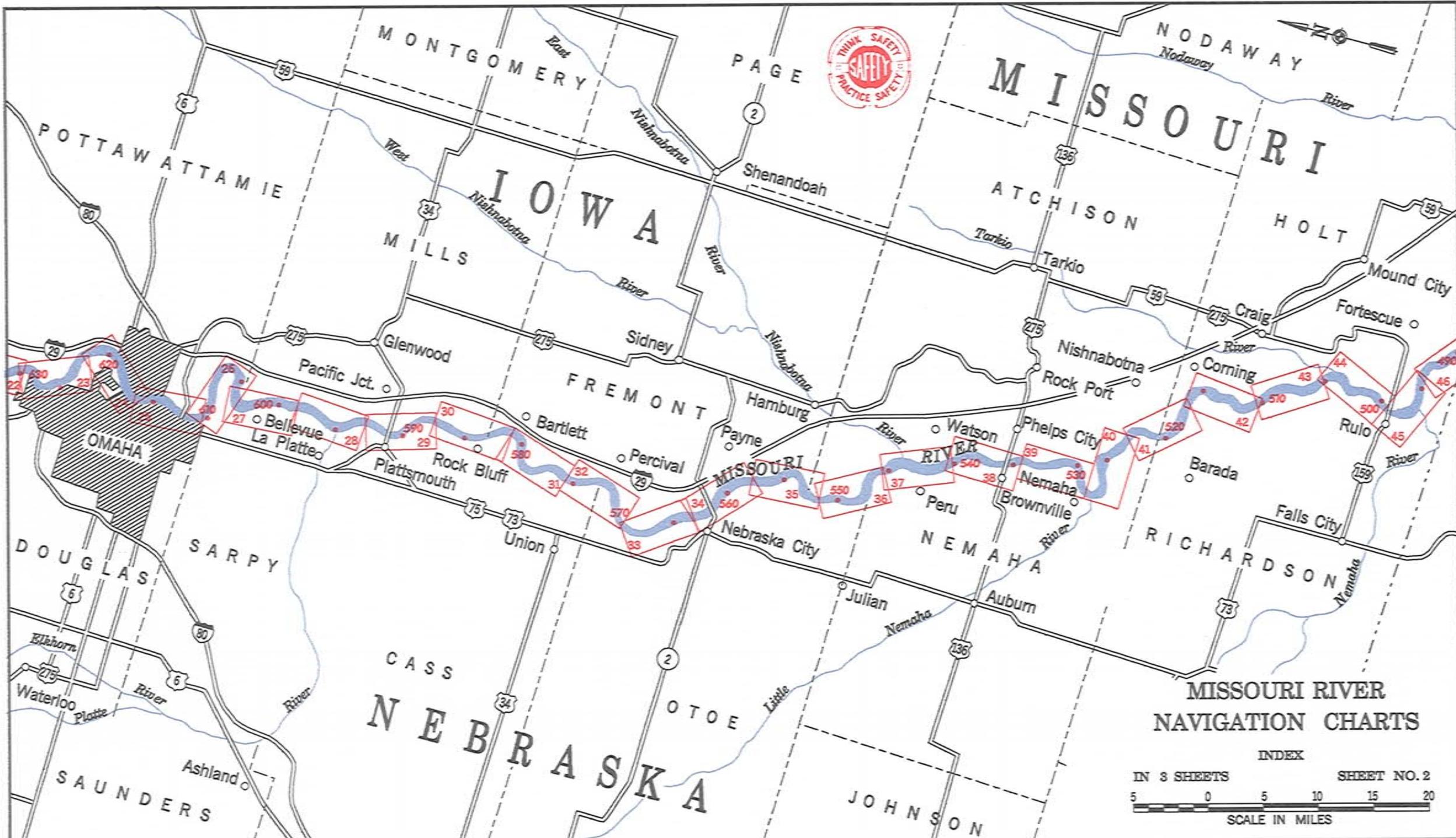
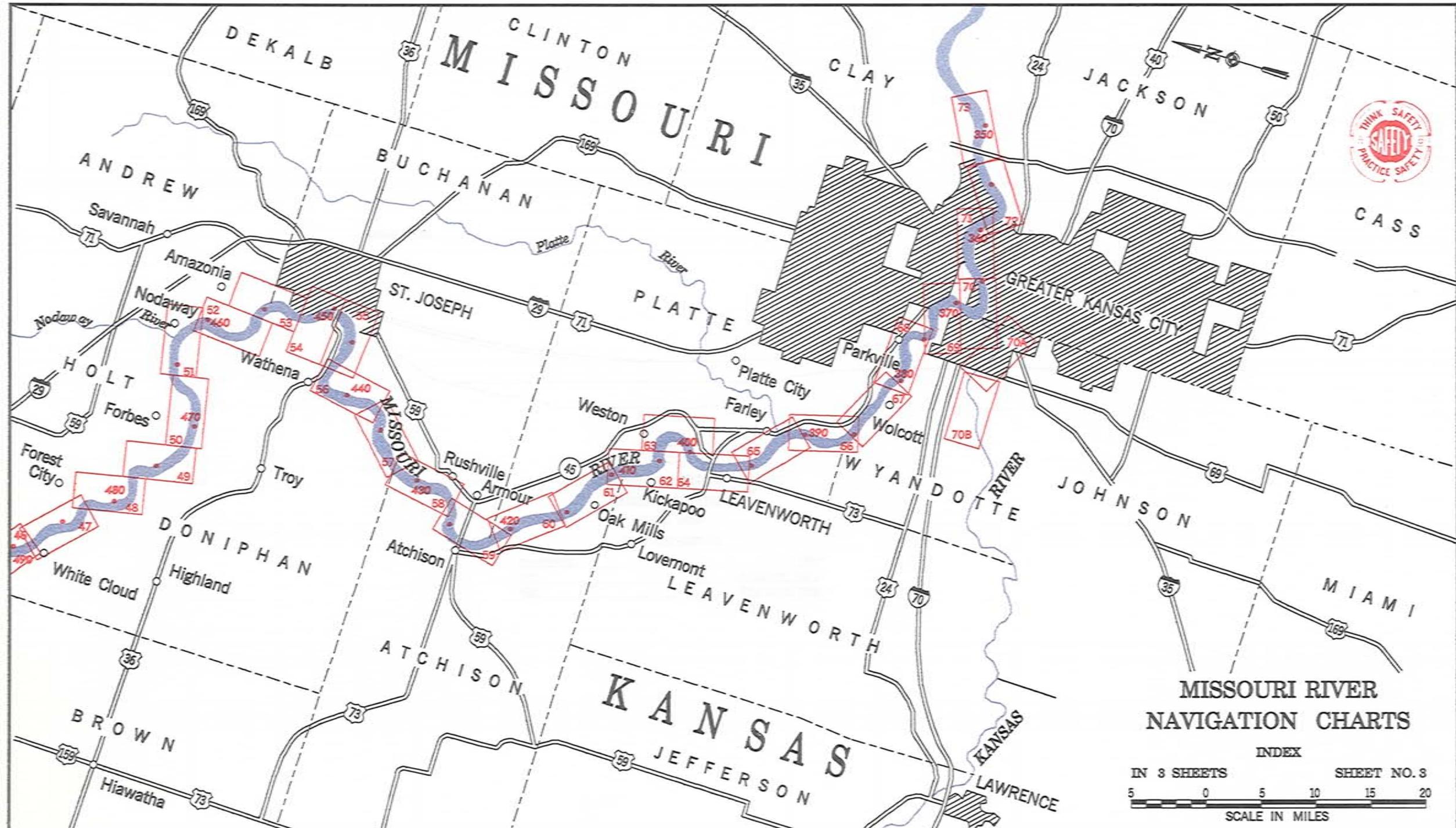
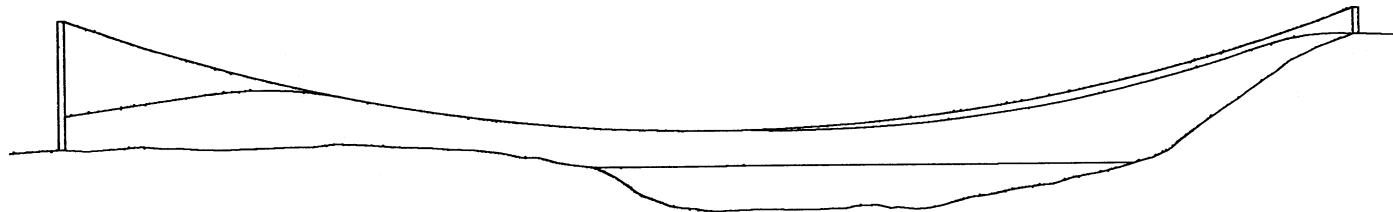


CHART NO. N



LEFT BANK

RIGHT BANK



①

CHAMPLIN OIL & REFINING CO.

PIPELINE BRIDGE

Mile 752.6

CHANNEL SPAN DATA

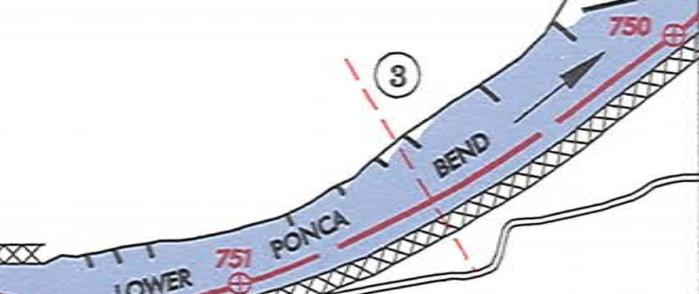
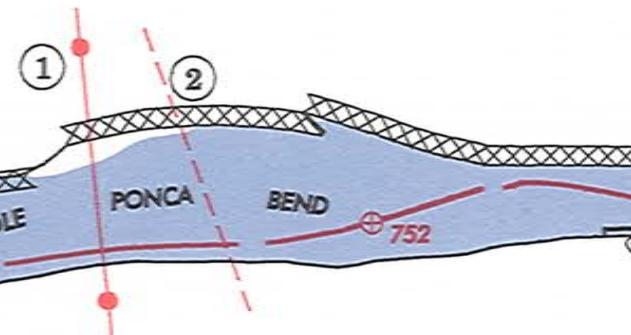
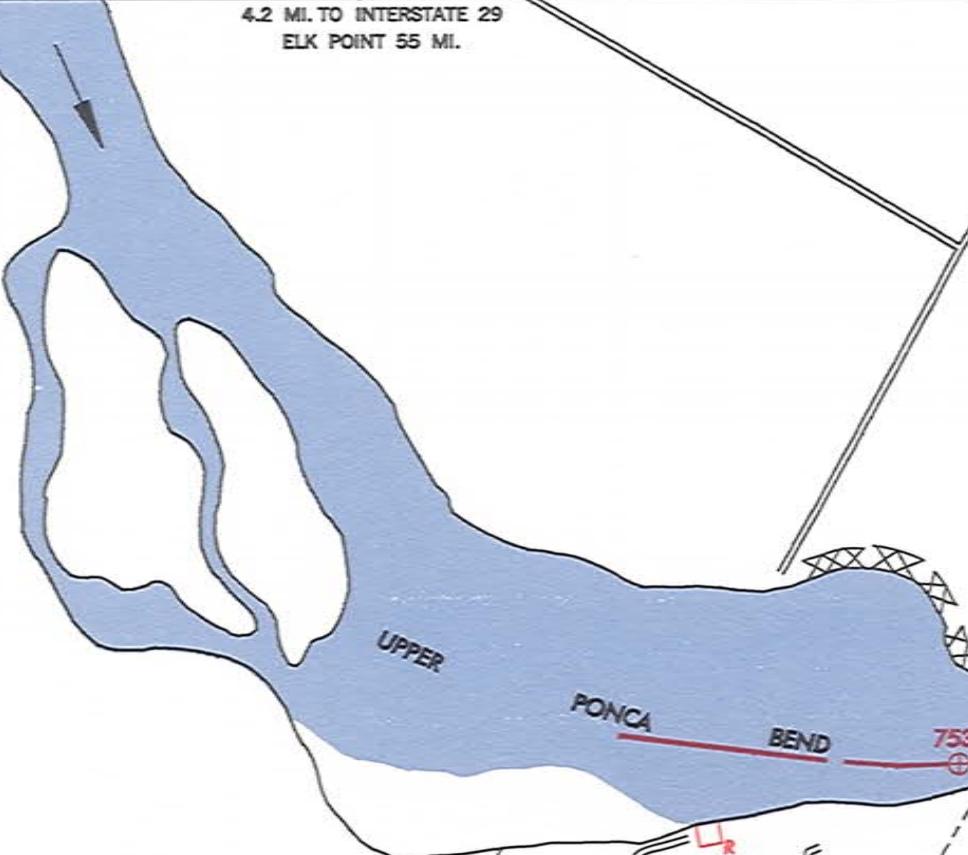
| | | |
|------------------|-------|------------|
| TYPE | ----- | SUSPENSION |
| HORIZ. CLEARANCE | ----- | 700' |
| VERT. CLEARANCE | ----- | 70.6' |

4.2 MI. TO INTERSTATE 29
ELK POINT 55 MI.

JEFFERSON 5.7 MI.



SOUTH DAKOTA
UNION COUNTY



NEBRASKA
DIXON COUNTY

PONCA
STATE
PARK

(A) SMALL BOAT RAMP
(STATE OF NEBRASKA)

- (1) CHAMPLIN OIL AND REFINING CO.
- (2) NORTHERN NATURAL GAS CO.
- (3) NORTHERN NATURAL GAS CO.

PONCA 0.2 MI.

0.7 MI. TO NEBRASKA 12



MISSOURI RIVER
NAVIGATION CHARTS

CHART NO. 1

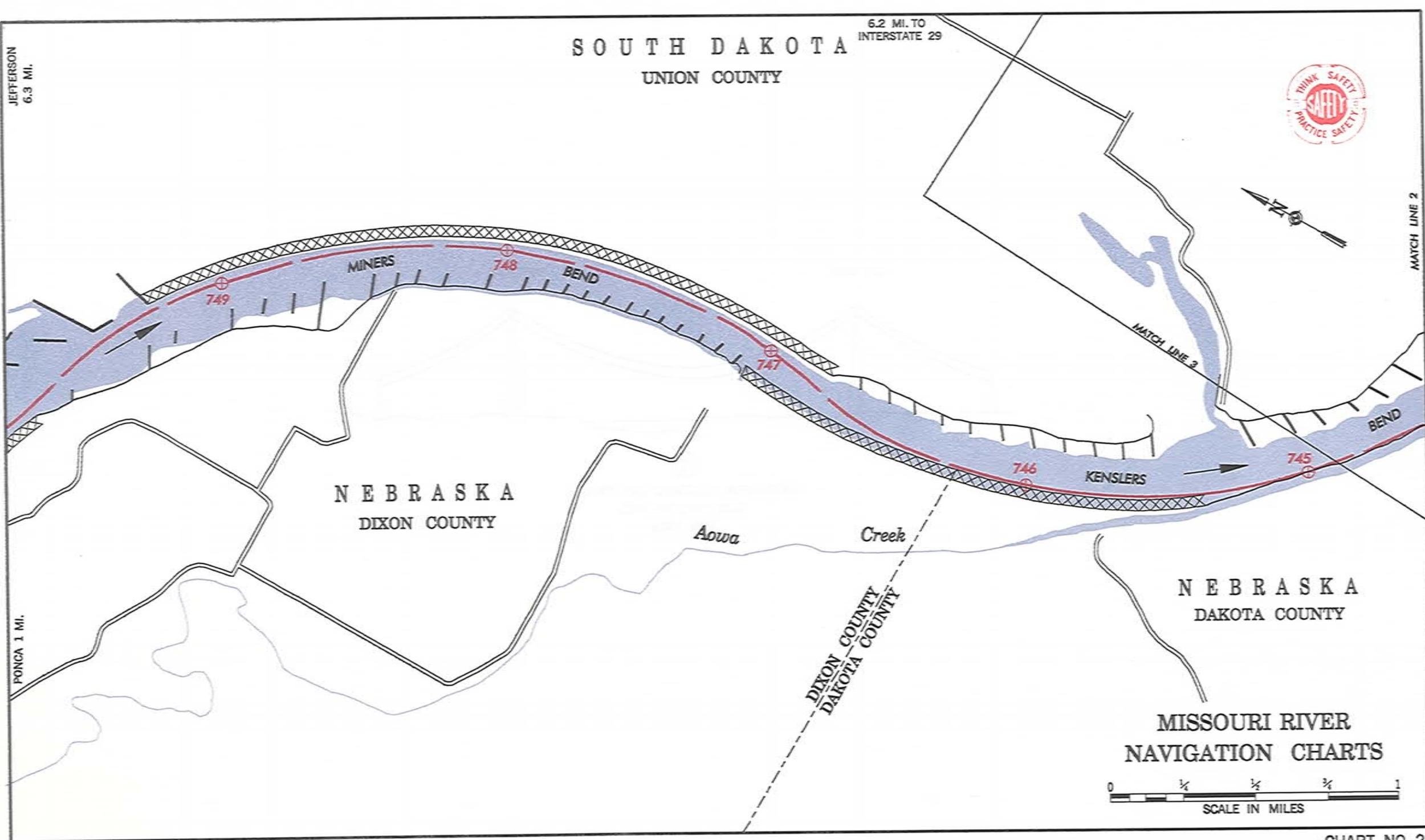
SOUTH DAKOTA
UNION COUNTY

6.2 MI. TO
INTERSTATE 29

JEFFERSON
6.3 MI.



MATCH LINE 2

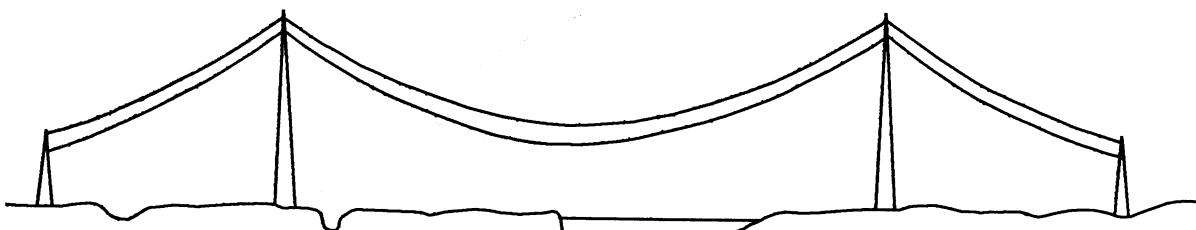


0 $\frac{1}{4}$ $\frac{1}{2}$ $\frac{3}{4}$ 1
SCALE IN MILES

CHART NO. 2

LEFT BANK

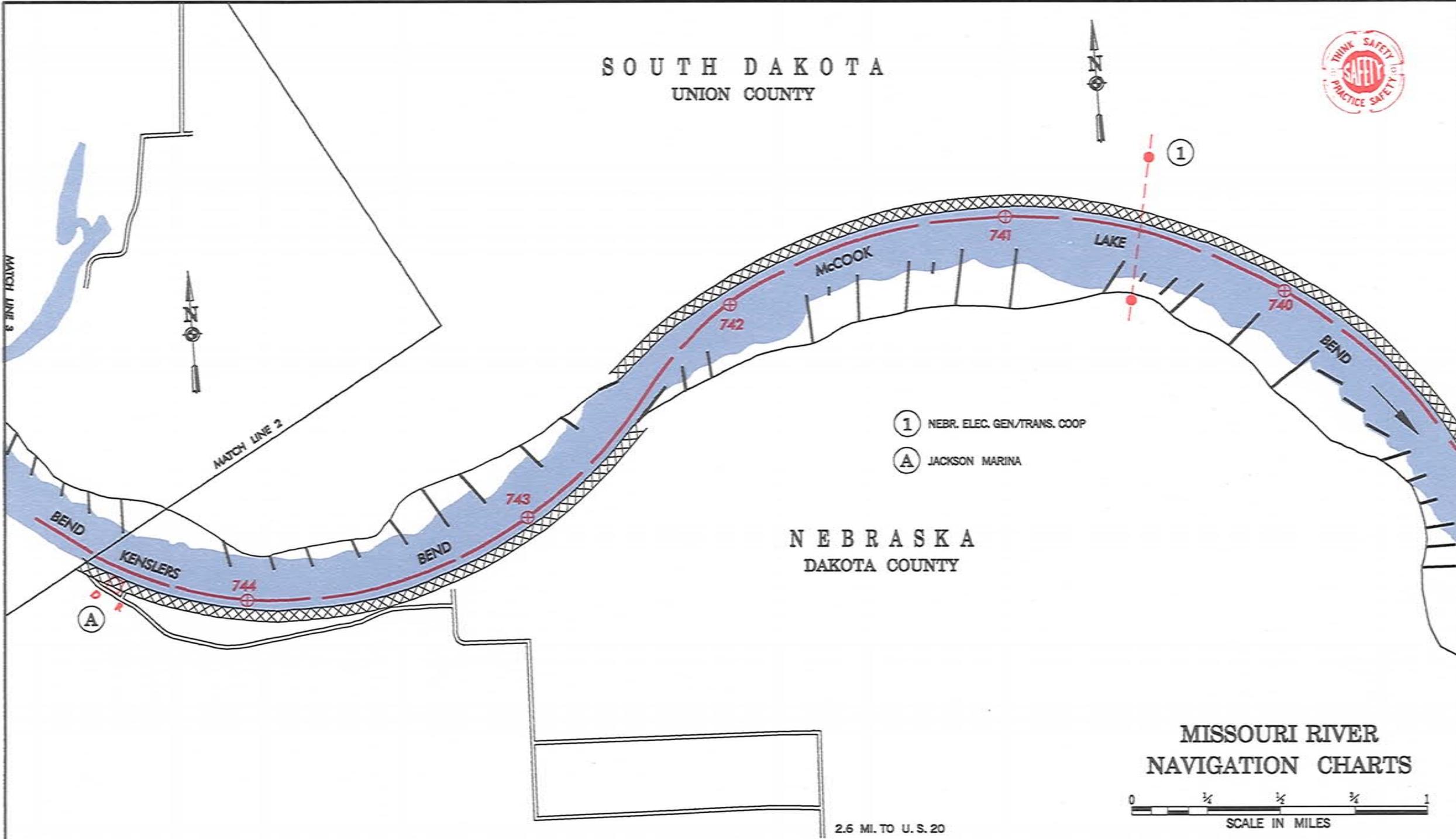
RIGHT BANK

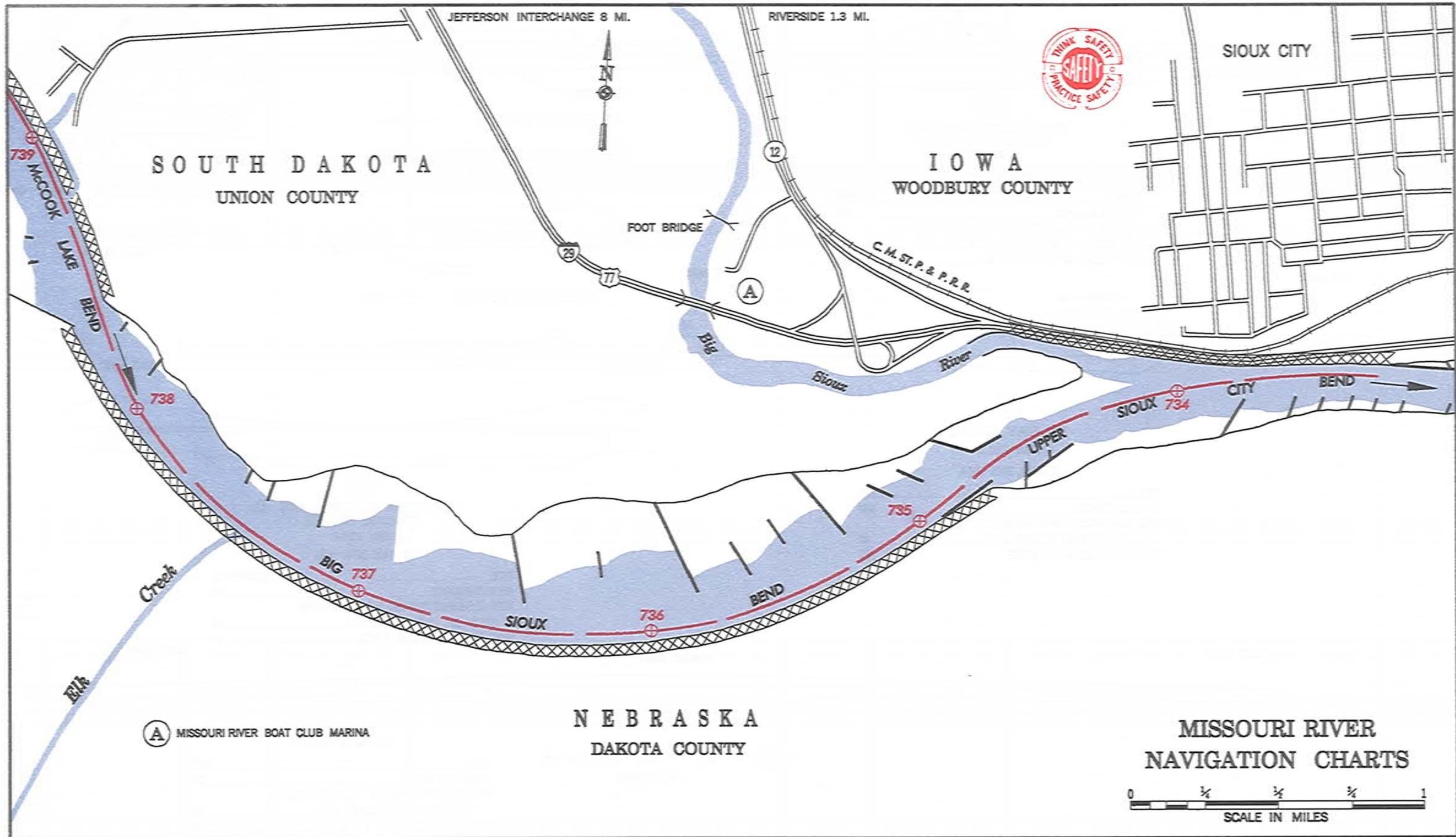


①

NEBRASKA ELECTRIC GEN/TRANS.
COOPERATIVE, INC.
Mile 740.5

SOUTH DAKOTA
UNION COUNTY





MISSOURI RIVER
NAVIGATION CHARTS

0 $\frac{1}{4}$ $\frac{1}{2}$ $\frac{1}{4}$ $\frac{1}{2}$ 1
SCALE IN MILES

CHART NO. 4

LEFT BANK

CHANNEL SPAN

RIGHT BANK

WAREHOUSE

DOCK

①
SIOUX LADS VETERAN
MEMORIAL BRIDGE
Mile 732.3

CHANNEL SPAN DATA

| | |
|--|-------|
| TYPE | FIXED |
| HORIZ. CLEARANCE | 400' |
| VERT. CLEARANCE (NORMAL NAVIGATION FLOW) | |
| SIOUX CITY GAGE READING 18.0) | 80' |
| VERT. CLEARANCE (FLOOD STAGE) | 62' |

LEFT BANK

CHANNEL SPAN

RIGHT BANK

WINCH

DOCK

DOLPHINS

MISSOURI RIVER

④
B.N. RWY. BRIDGE
Mile 730.5

CHANNEL SPAN DATA

| | |
|--|-------|
| TYPE | FIXED |
| HORIZ. CLEARANCE | 400' |
| VERT. CLEARANCE (NORMAL NAVIGATION FLOW) | |
| SIOUX CITY GAGE READING 18.0) | 81' |
| VERT. CLEARANCE (FLOOD STAGE) | 63' |

LEFT BANK

CHANNEL SPAN

RIGHT BANK

H JEBRO, INC.
Mile 727.5

G BIG SOO TERMINAL
Mile 727.8

LEFT BANK

RIGHT BANK

⑥
NORTHERN NATURAL GAS CO.
PIPELINE BRIDGE
Mile 728.0

CHANNEL SPAN DATA

| | |
|--|------------|
| TYPE | SUSPENSION |
| HORIZ. CLEARANCE | 700' |
| VERT. CLEARANCE (NORMAL NAVIGATION FLOW) | |
| SIOUX CITY GAGE READING 18.0) | 70' |
| VERT. CLEARANCE (FLOOD STAGE) | 52' |

RIGHT BANK

⑤ INTERSTATE 129 HWY. BRIDGE
Mile 728.6

CHANNEL SPAN DATA

| | |
|--|-------|
| TYPE | FIXED |
| HORIZ. CLEARANCE | 400' |
| VERT. CLEARANCE (NORMAL NAVIGATION FLOW) | |
| SIOUX CITY GAGE READING 18.0) | 64' |
| VERT. CLEARANCE (FLOOD STAGE) | 48' |

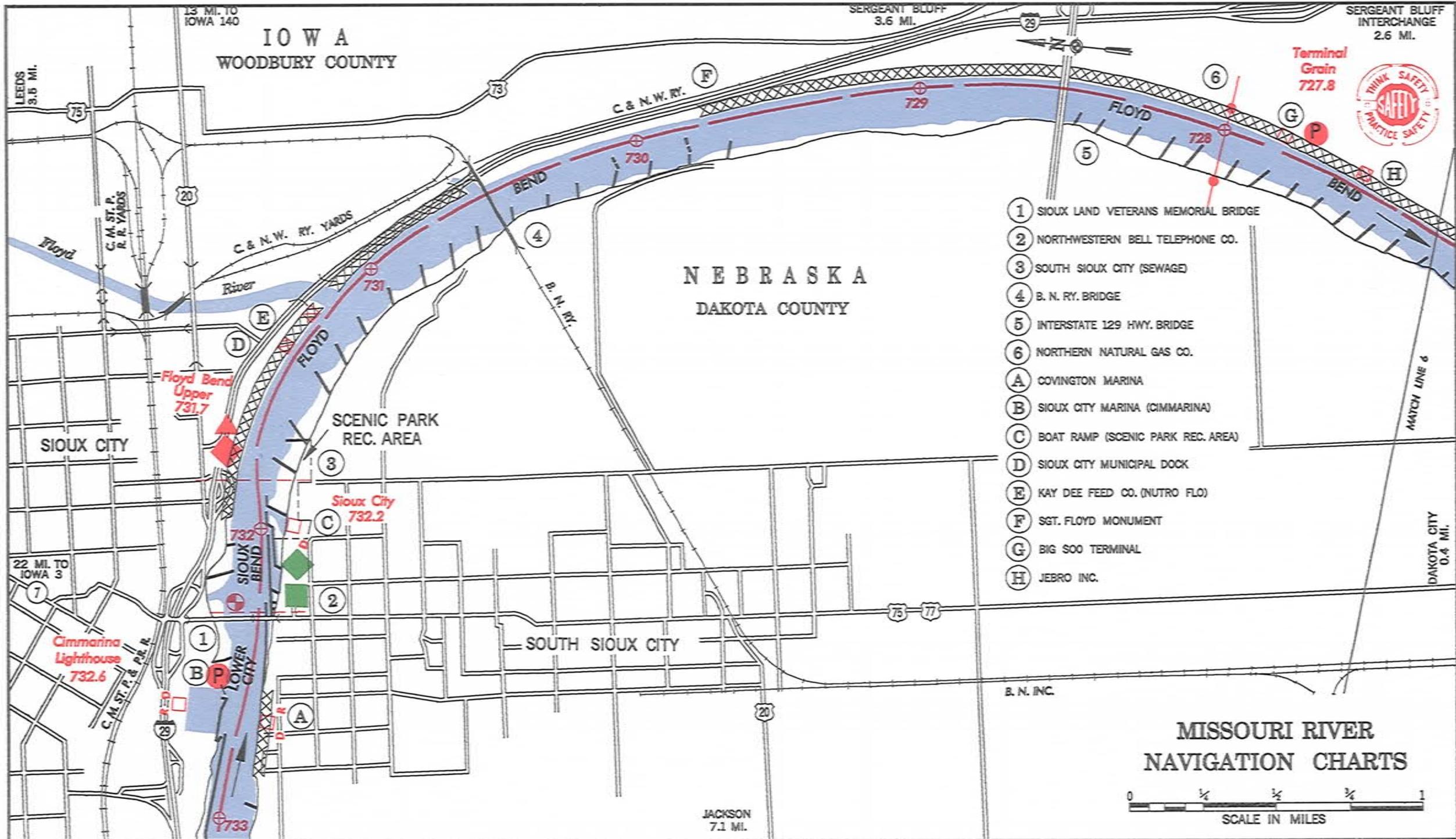
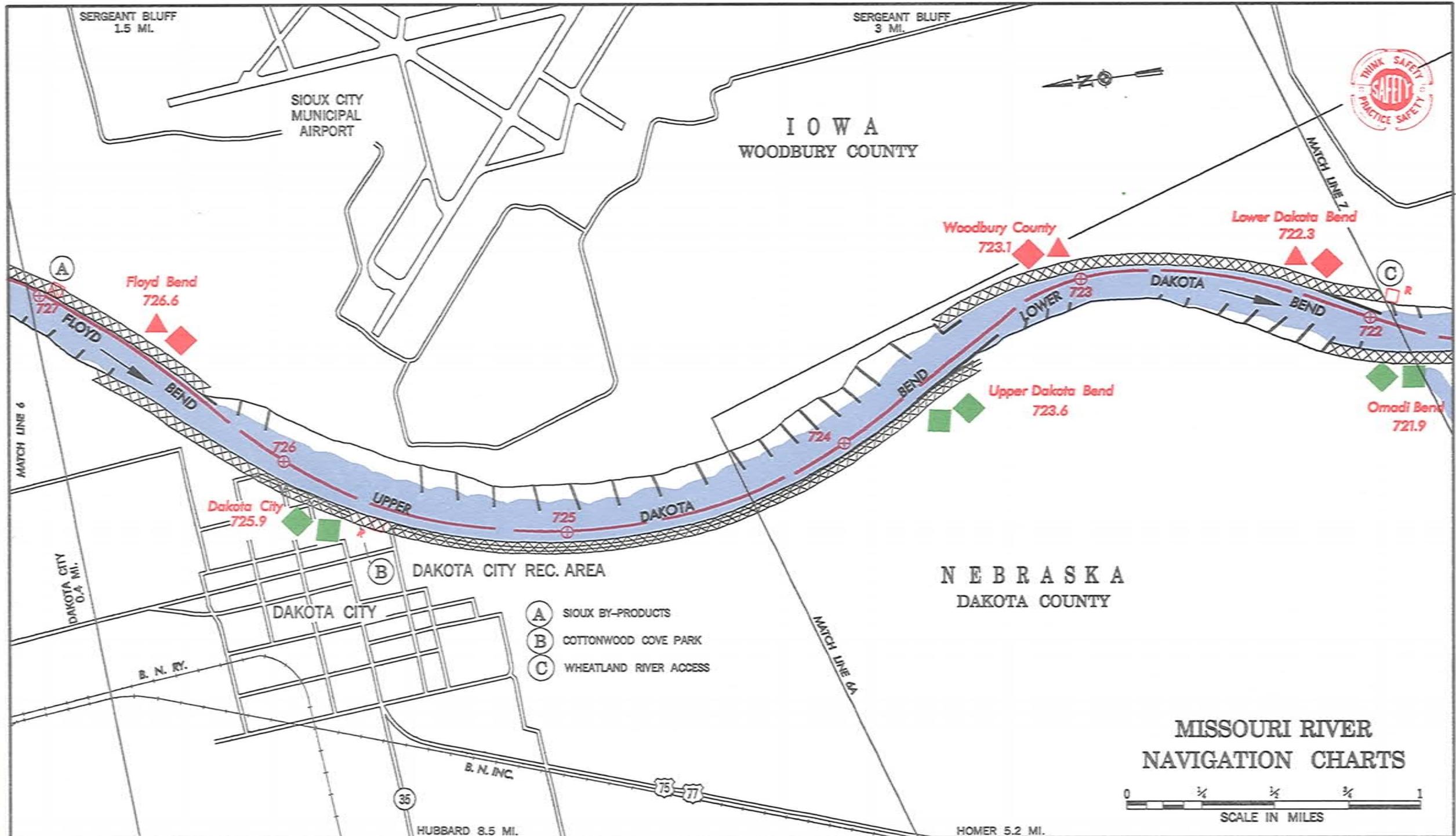
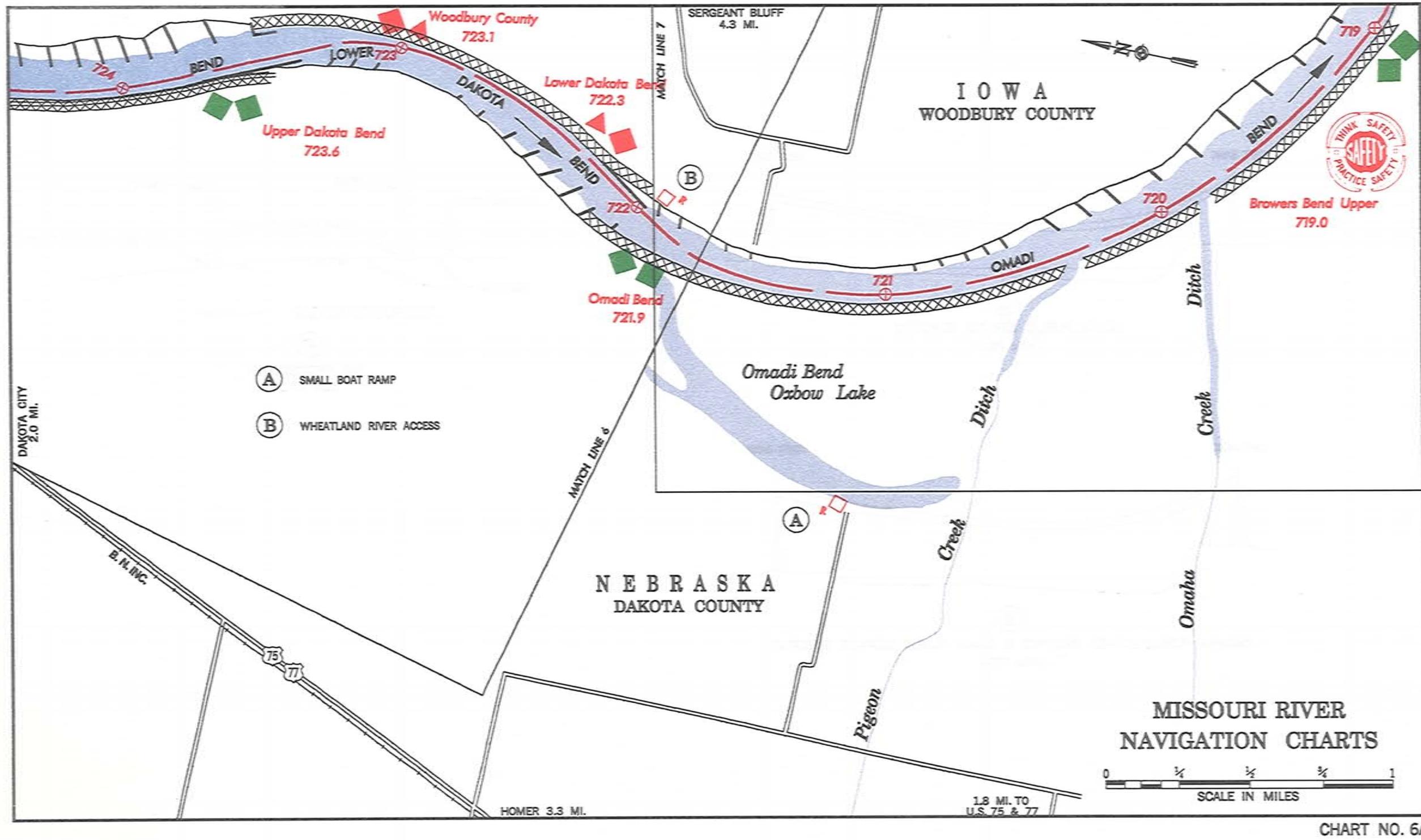


CHART NO. 5





LEFT BANK

RIGHT BANK

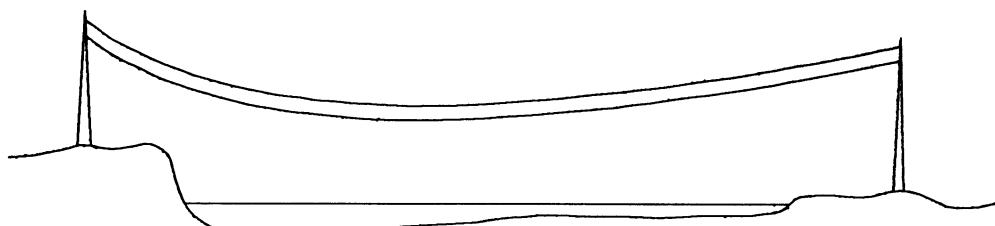


①

IOWA PUBLIC SERVICE ELECTRIC
Mile 718.3

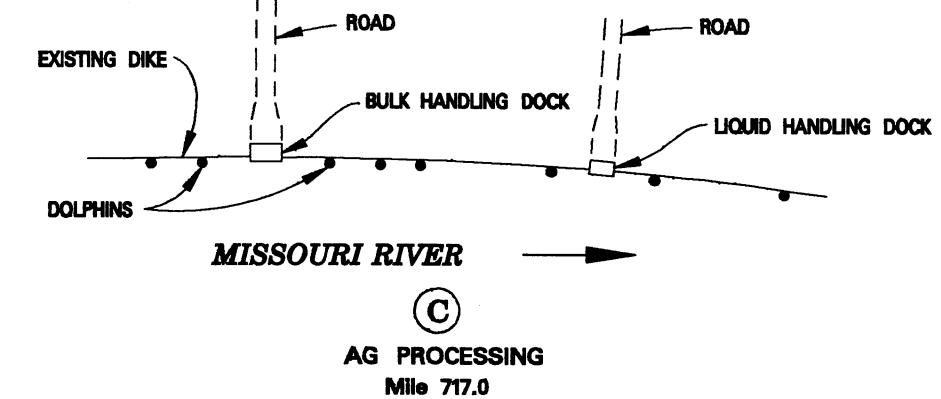
LEFT BANK

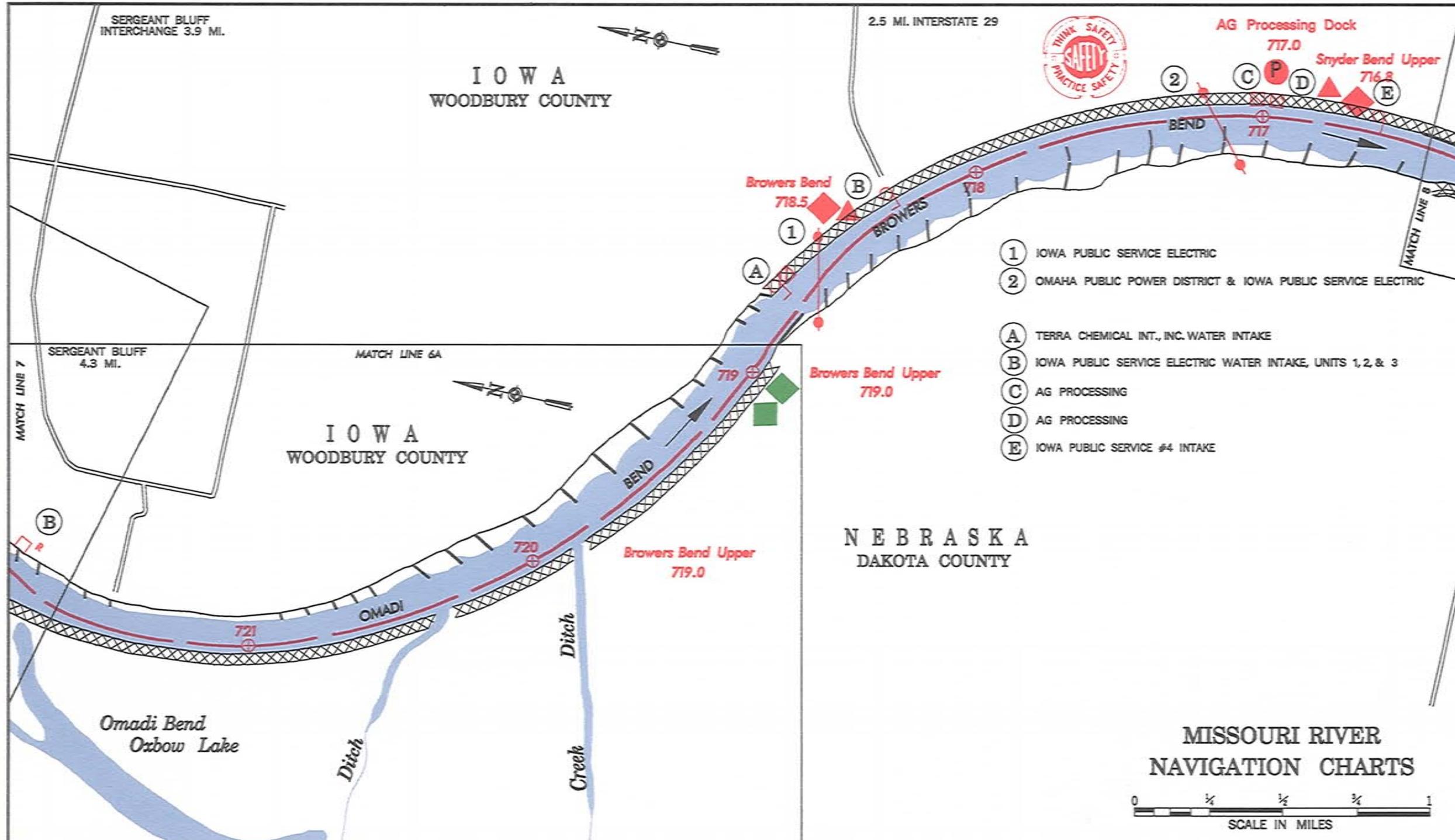
RIGHT BANK

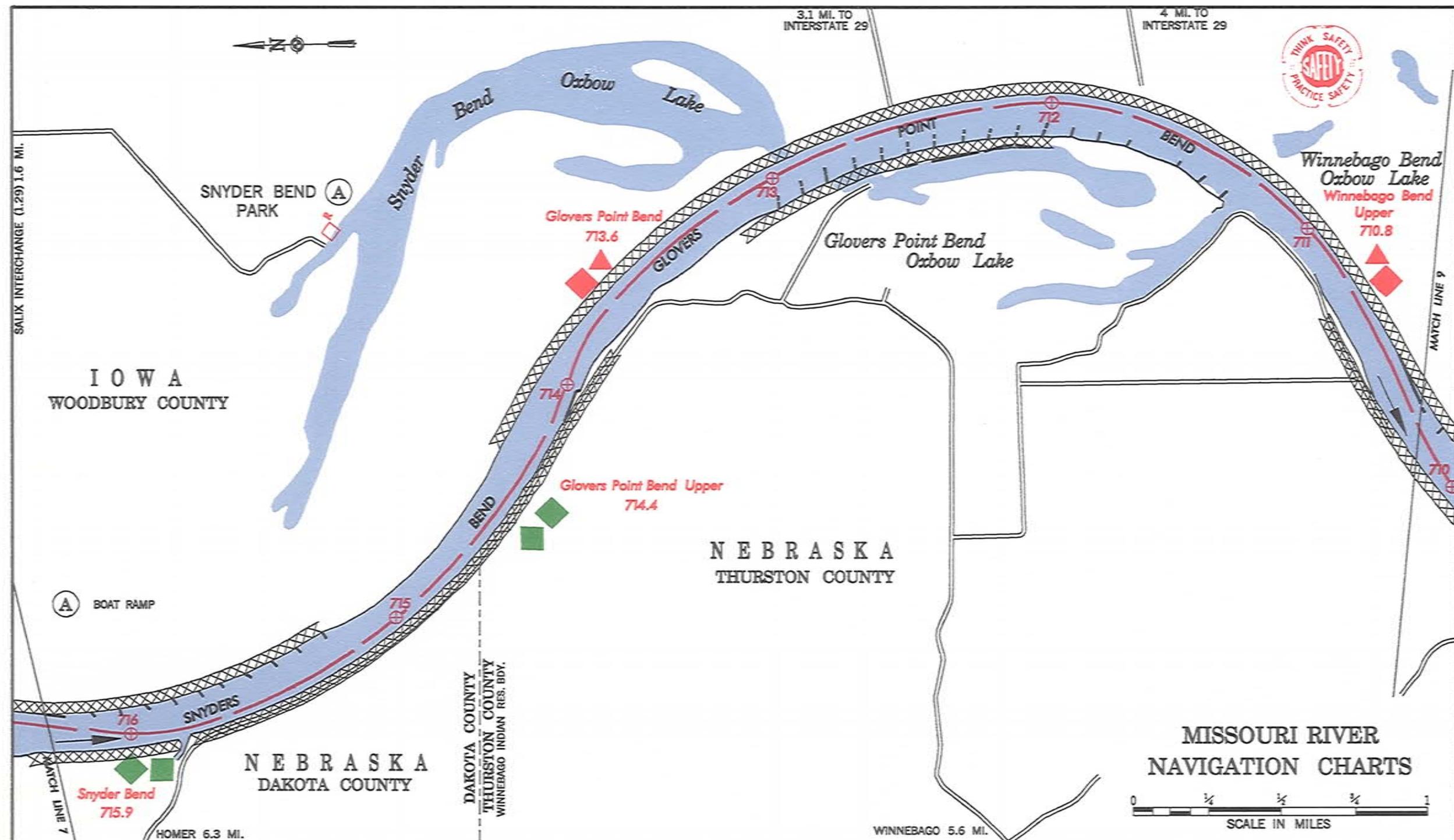


②

OMAHA PUBLIC POWER DISTRICT & IOWA PUBLIC SERVICE ELECTRIC
Mile 717.4







3.3 MI. TO INTERSTATE 29

3.75 MI. TO
INTERSTATE 29

IOWA
MONONA COUNTY

Omaha Mission Bend
703.7

Omaha Mission Bend Lower
703.0

N E B R A S K A
THURSTON COUNTY

Omaha Mission Bend
Upper
704.2

Lower Monona Bend
700.5

Blockbird Creek
701.0

702

Thurston County
7024

 RUTH LIGHTHOUSE MARINA

MACY 1.5 MI.

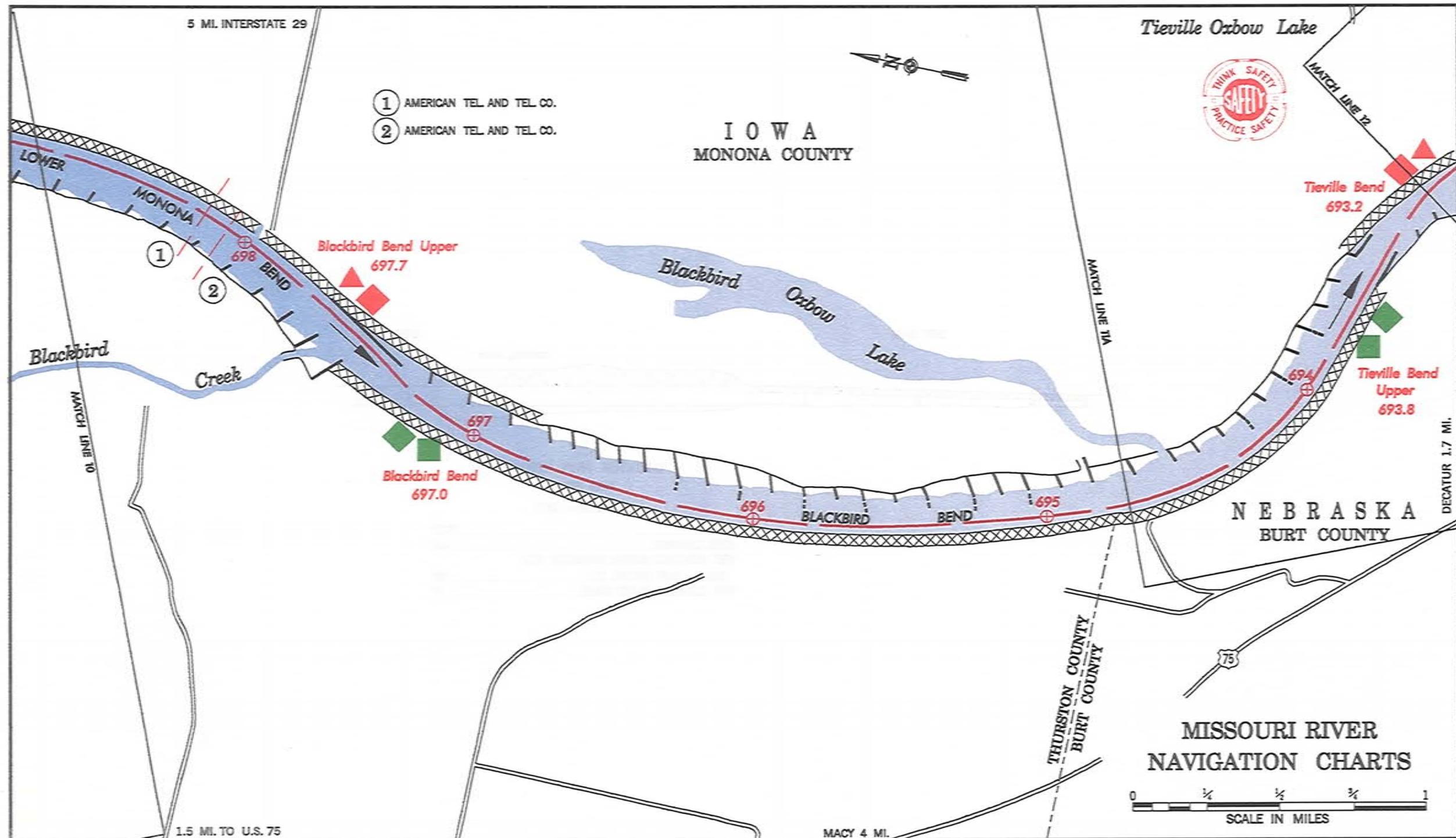


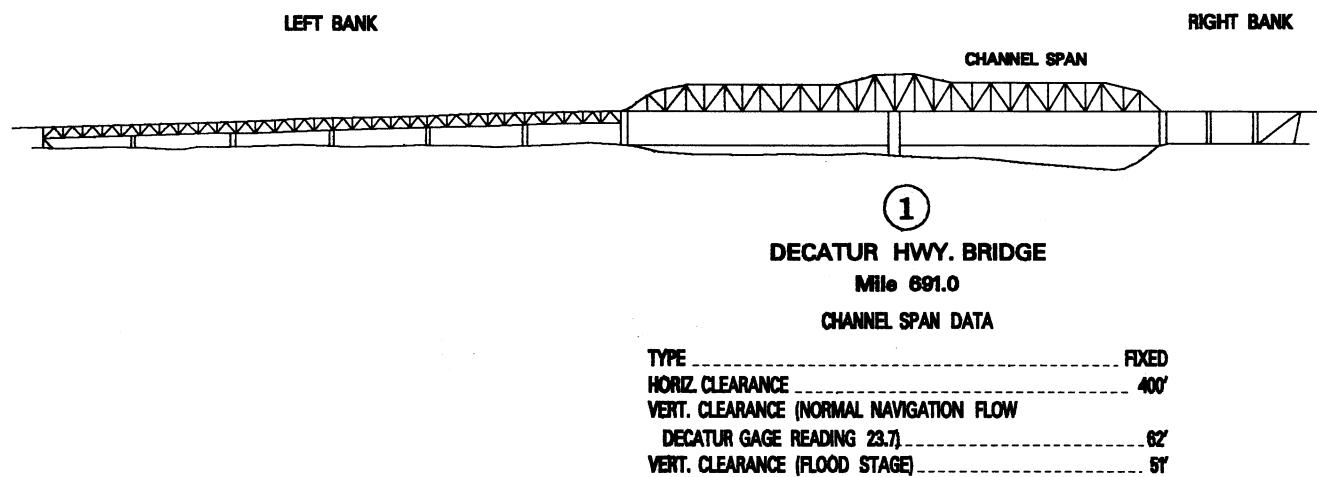
MARCH 1964

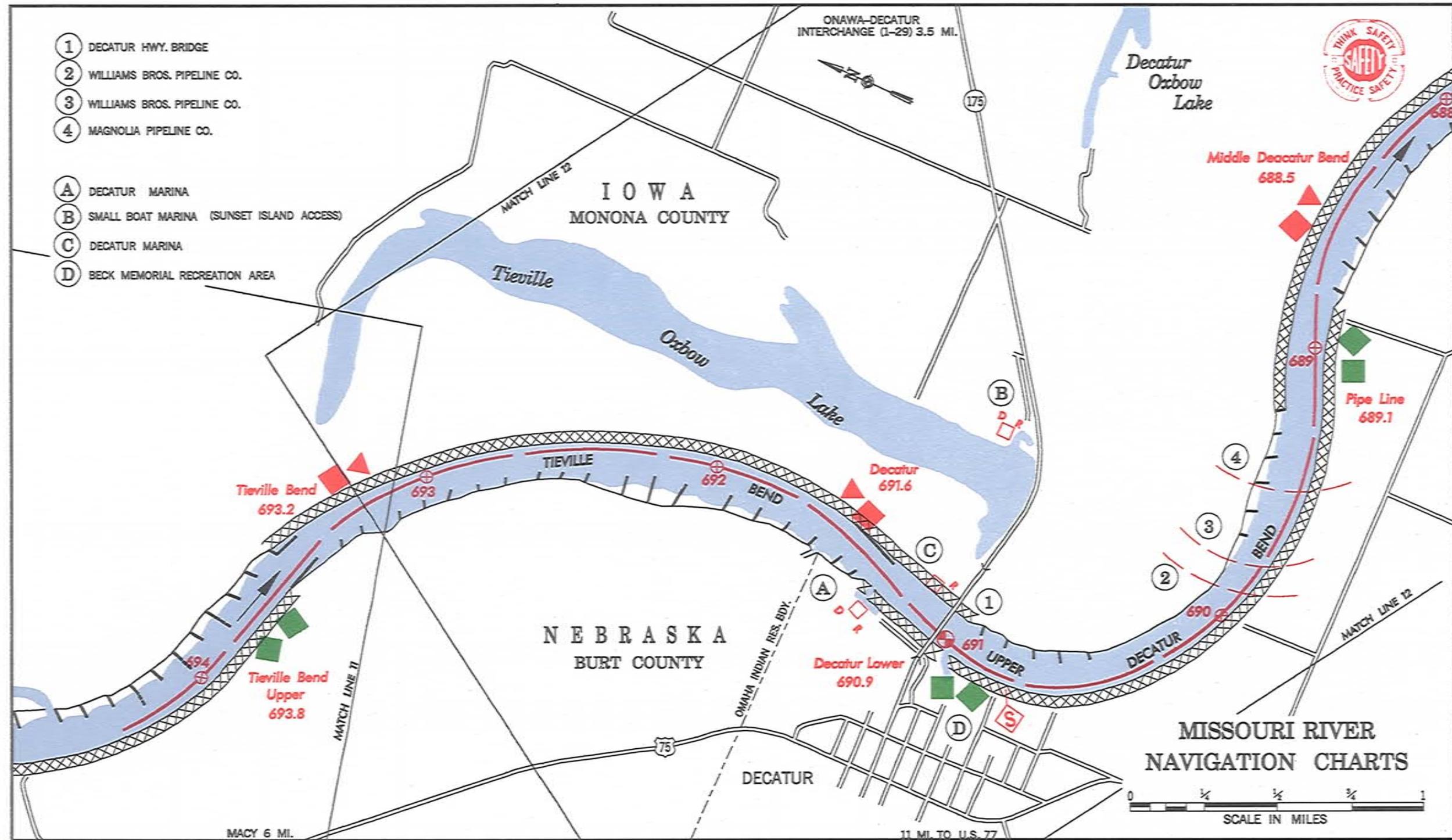
MISSOURI RIVER
NAVIGATION CHARTS

0 $\frac{1}{4}$ $\frac{1}{2}$ $\frac{3}{4}$
 SCALE IN MILES

CHART NO. 10







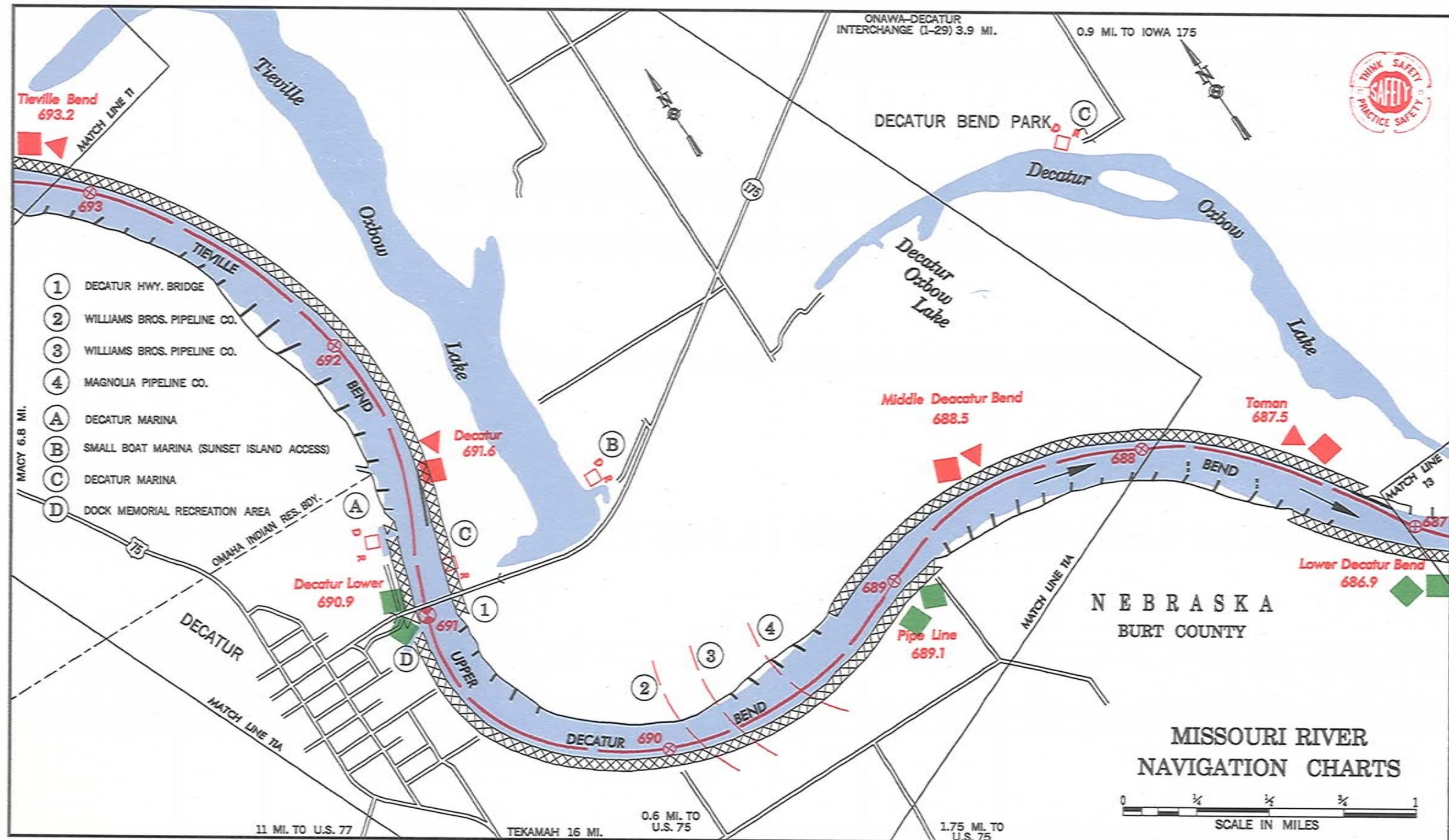
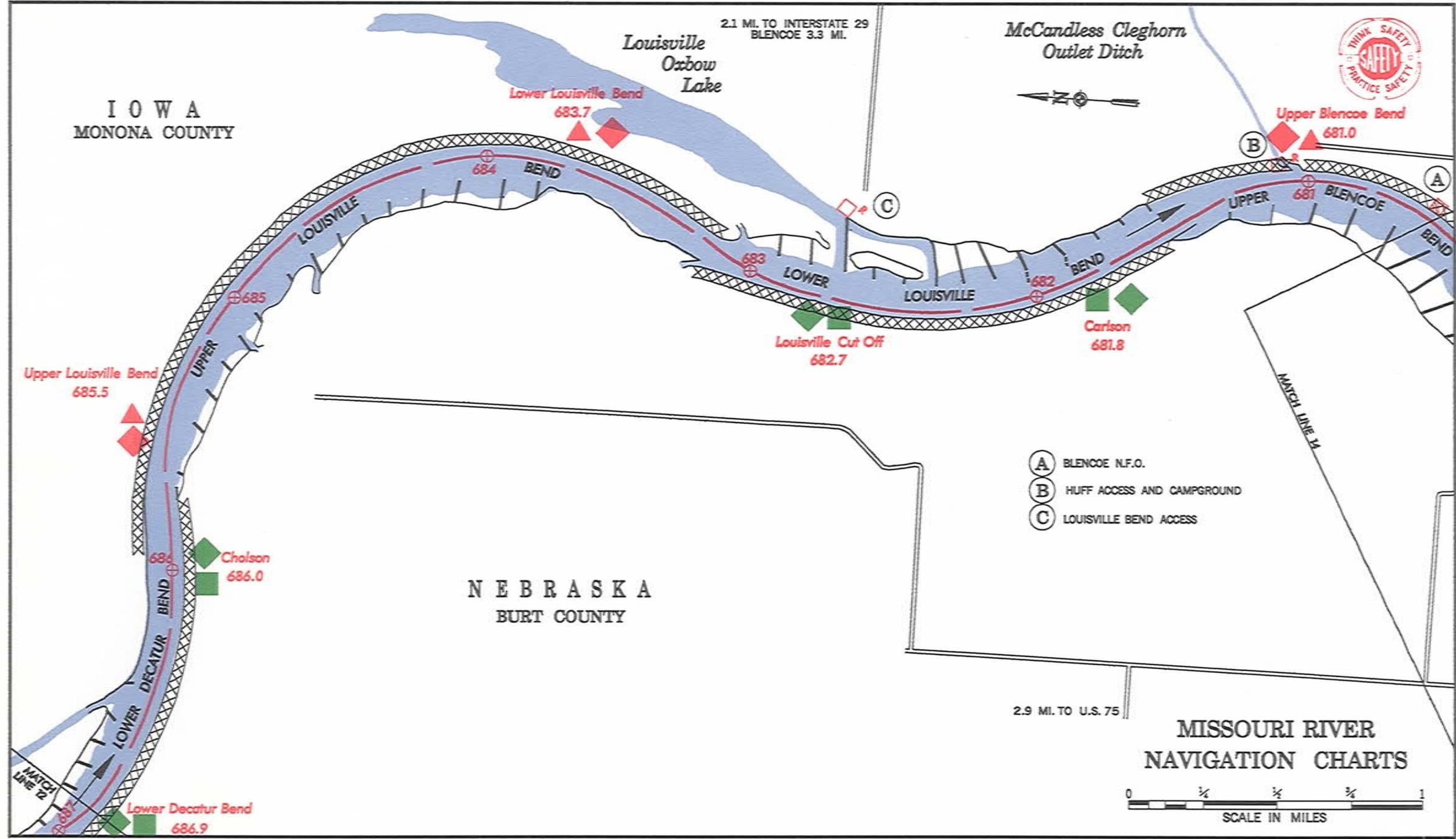
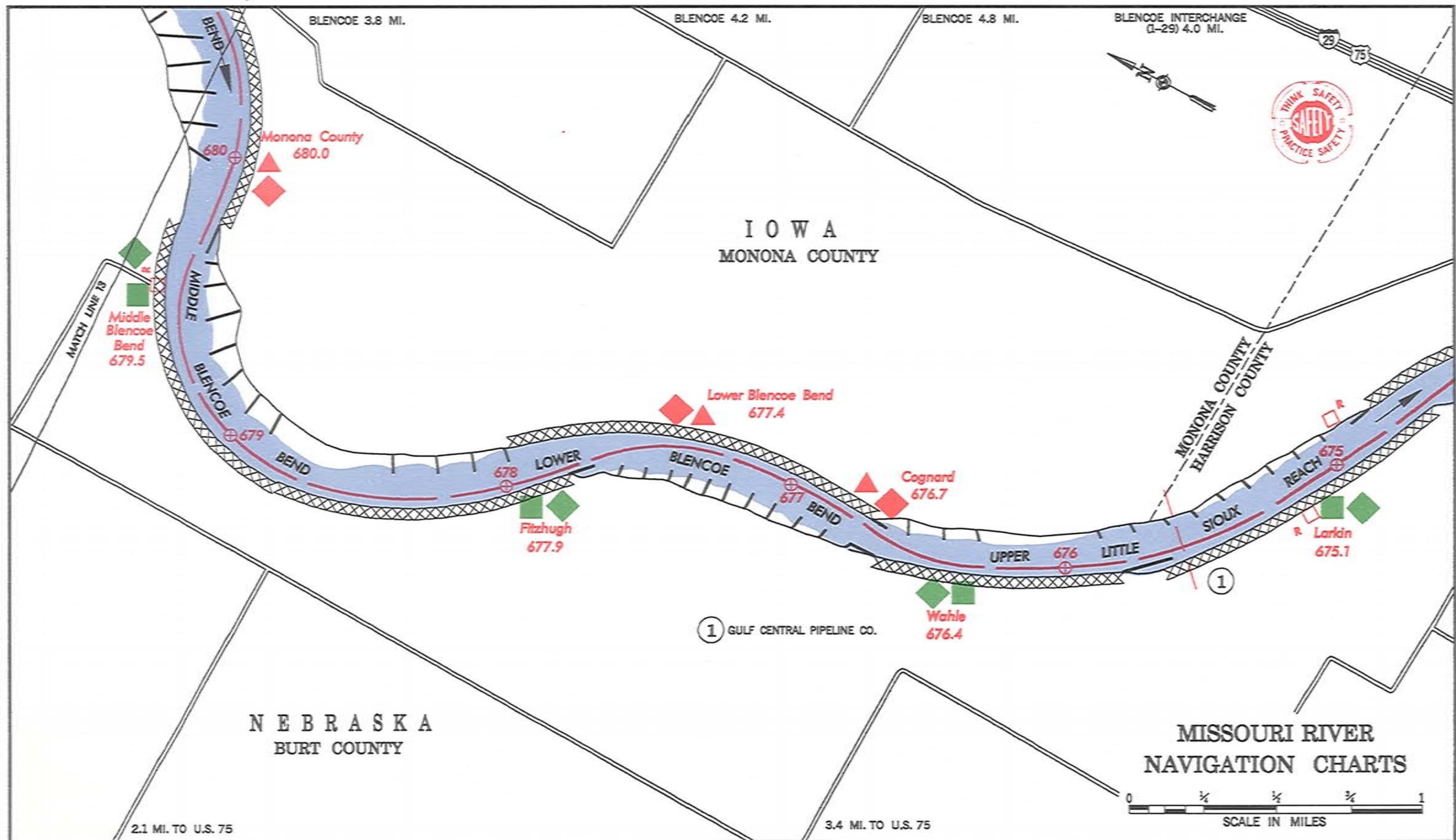


CHART NO. 12





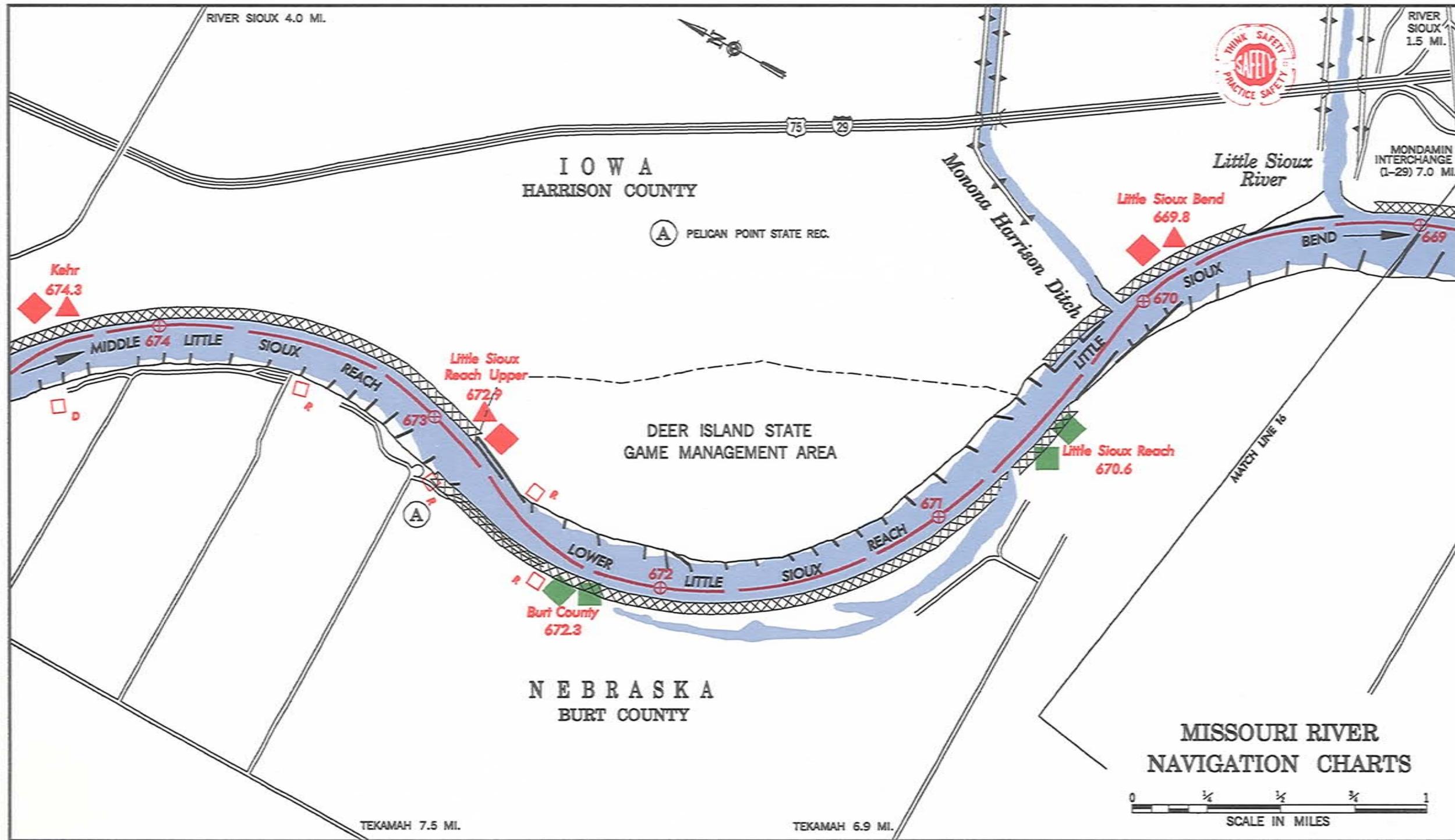


CHART NO. 15



IOWA
HARRISON COUNTY

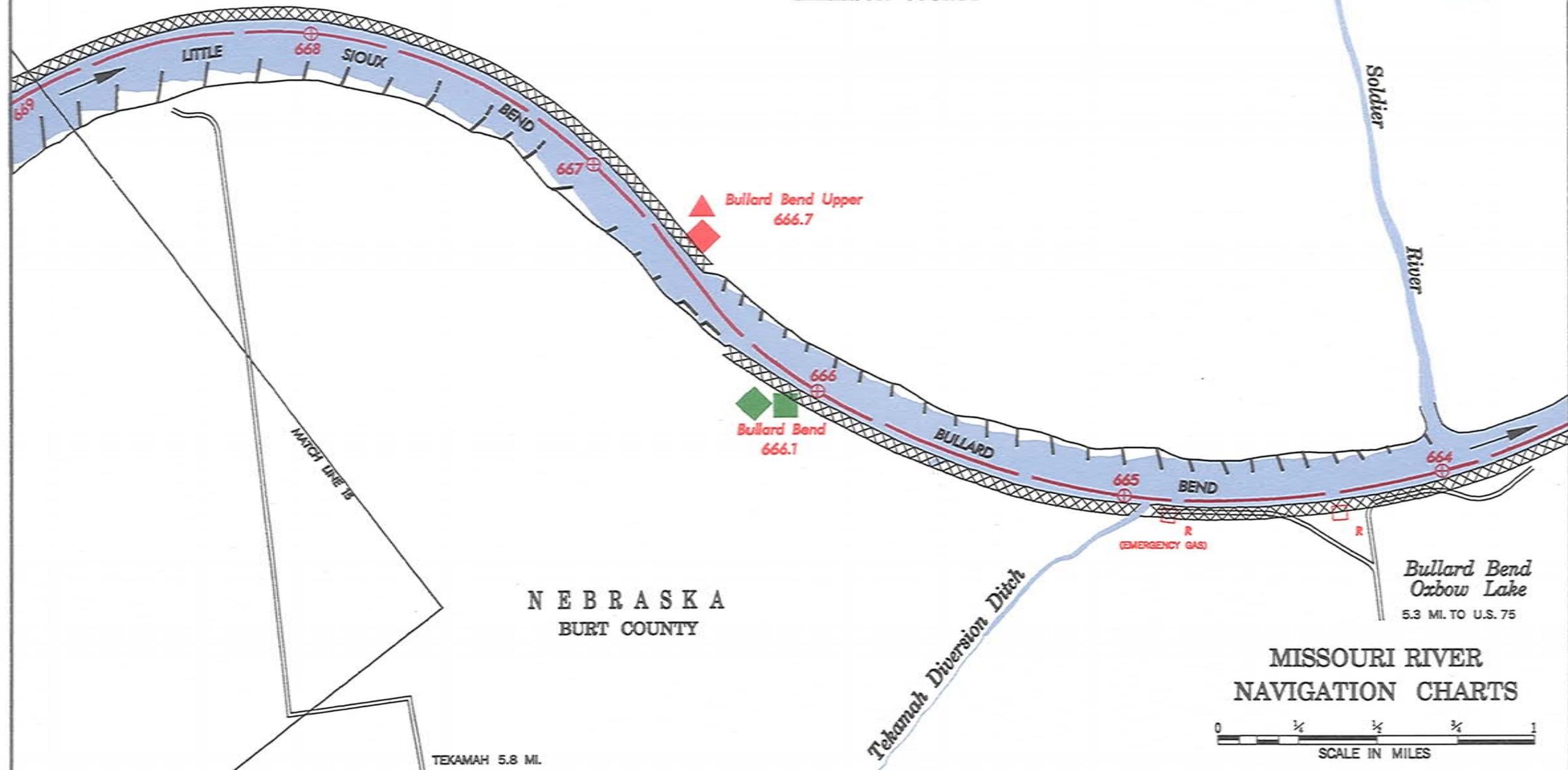
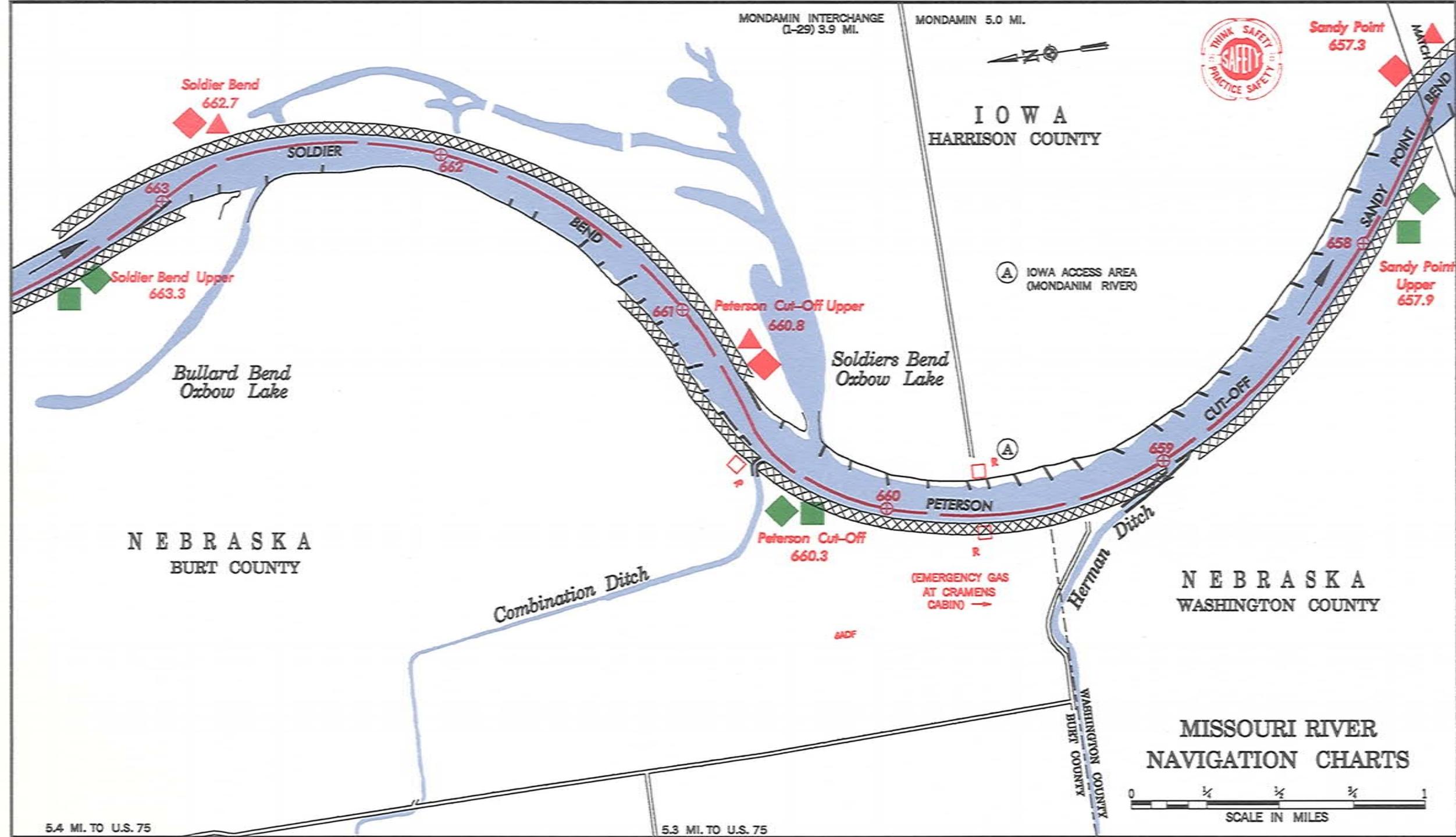


CHART NO. 16



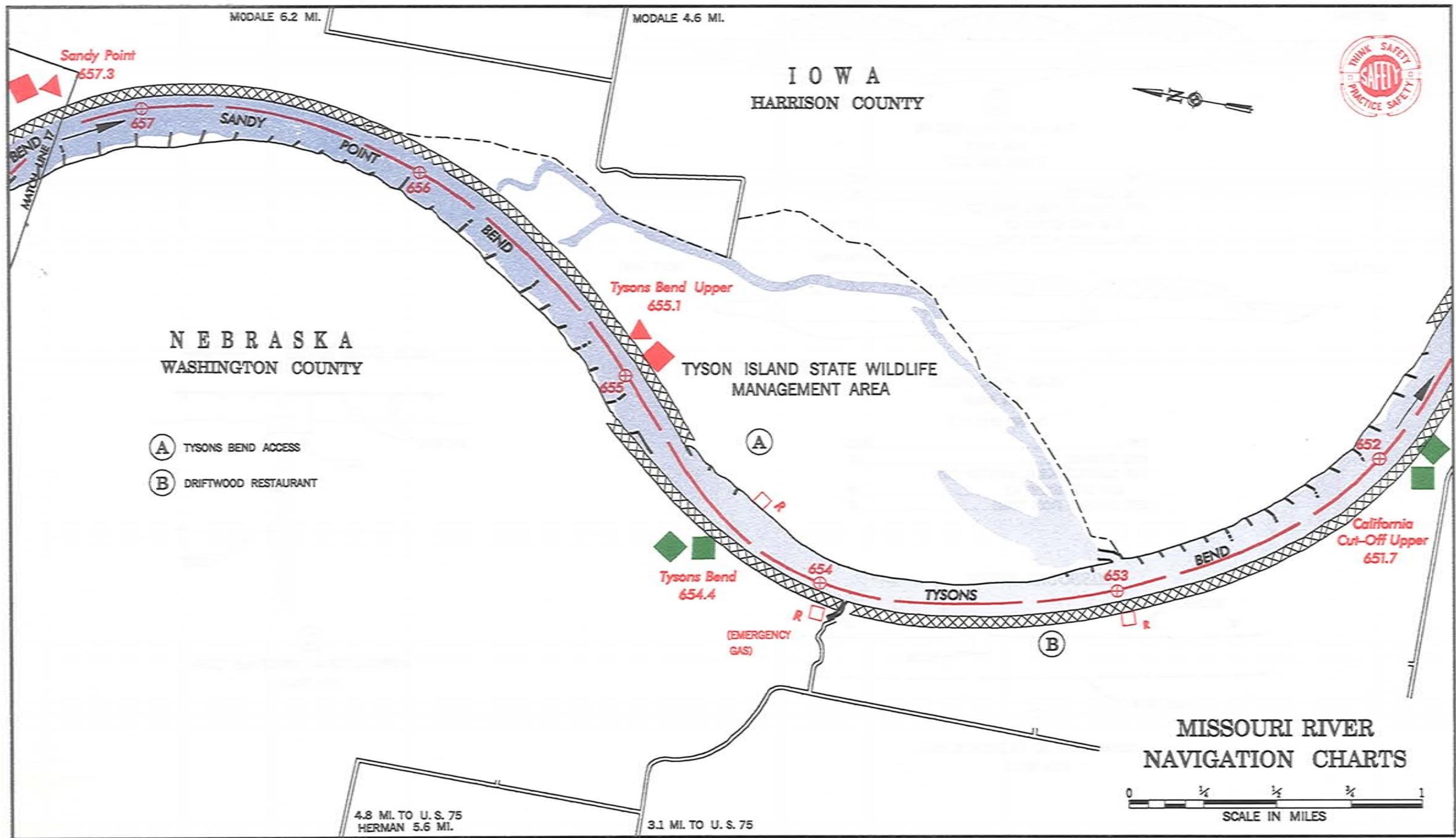


CHART NO. 18

LEFT BANK

CHANNEL SPAN

RIGHT BANK

①

C. & N. W. RWY. BRIDGE

Mile 648.3

CHANNEL SPAN DATA

| | |
|--|-------|
| TYPE | FIXED |
| HORIZ. CLEARANCE | 318' |
| VERT. CLEARANCE (NORMAL NAVIGATION FLOW) | |
| BLAIR GAGE READING 6.2 | 58' |
| VERT. CLEARANCE (FLOOD STAGE) | 46' |

LEFT BANK

CHANNEL SPAN

RIGHT BANK

②

BLAIR HWY. BRIDGE

Mile 648.3

CHANNEL SPAN DATA

| | |
|--|-------|
| TYPE | FIXED |
| HORIZ. CLEARANCE | 322' |
| VERT. CLEARANCE (NORMAL NAVIGATION FLOW) | |
| BLAIR GAGE READING 6.2 | 58' |
| VERT. CLEARANCE (FLOOD STAGE) | 46' |

MISSOURI RIVER



DOLPHINS

DOCK

HIGH BANK

③

CONSOLIDATED BLENDERS, INC.

Mile 648.2

MISSOURI RIVER



DOLPHINS

SHED

DOCK

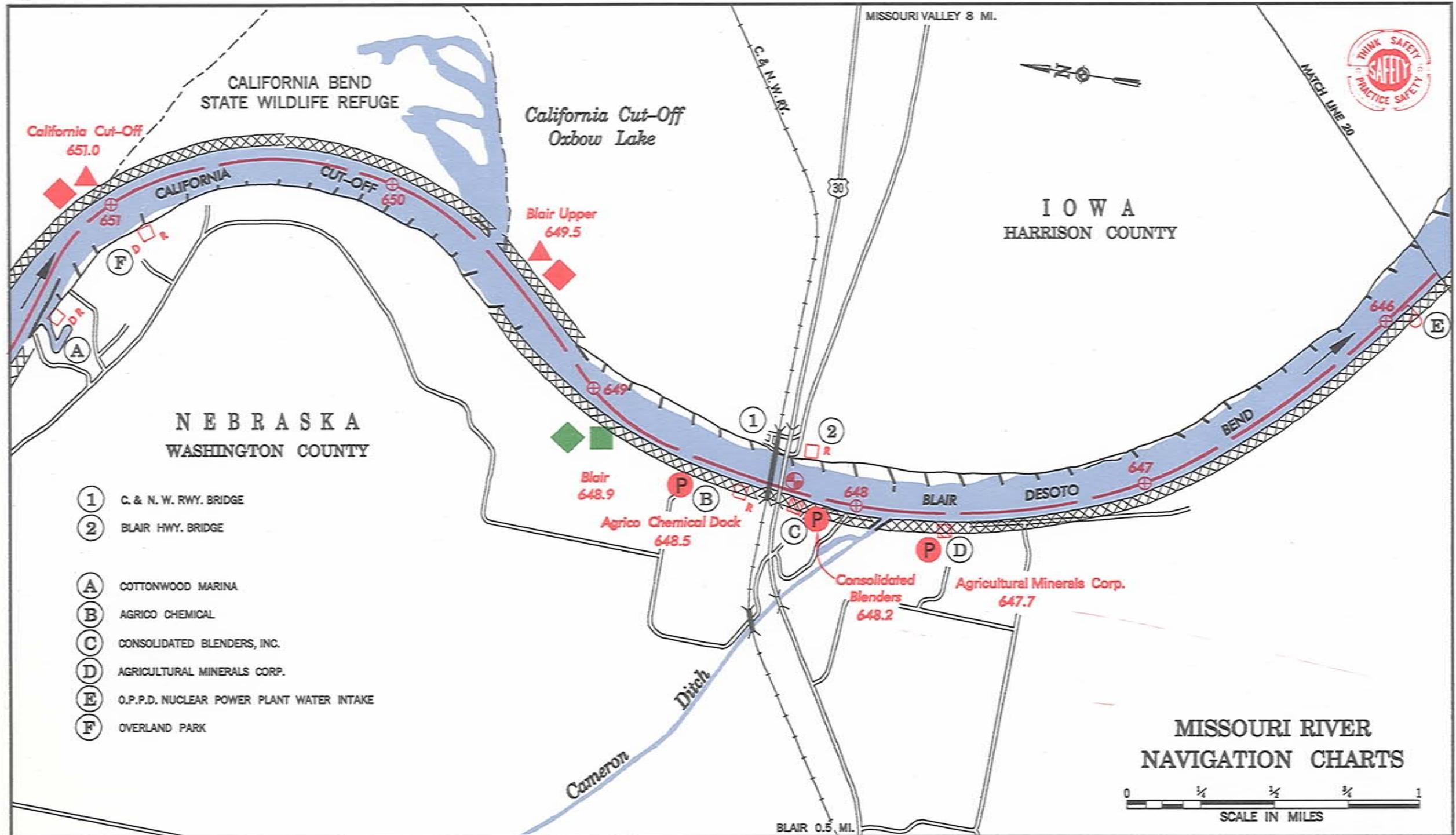
WALKWAY

LEVEE

④

AGRICULTURAL MINERALS CORP.

Mile 647.7



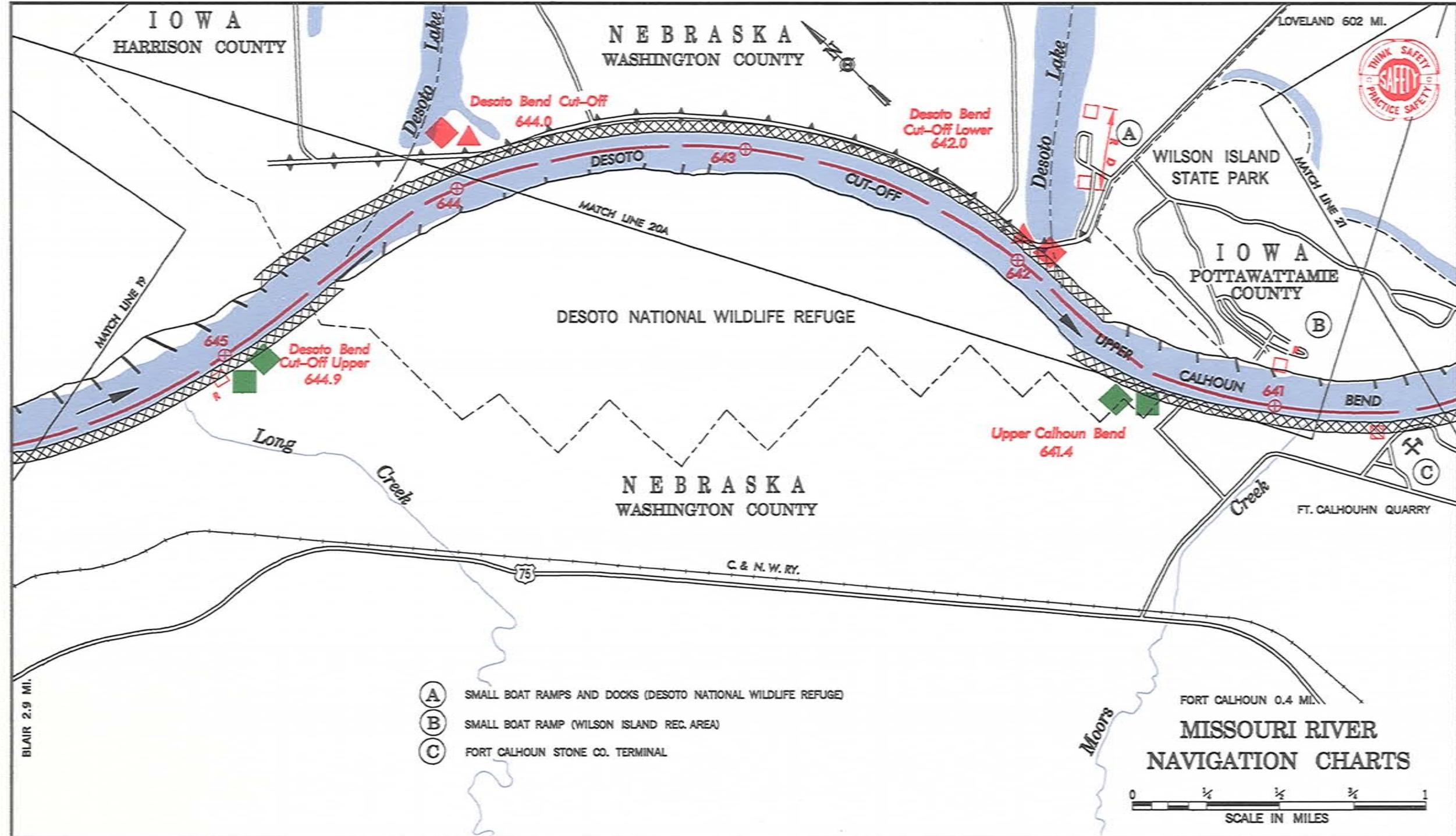
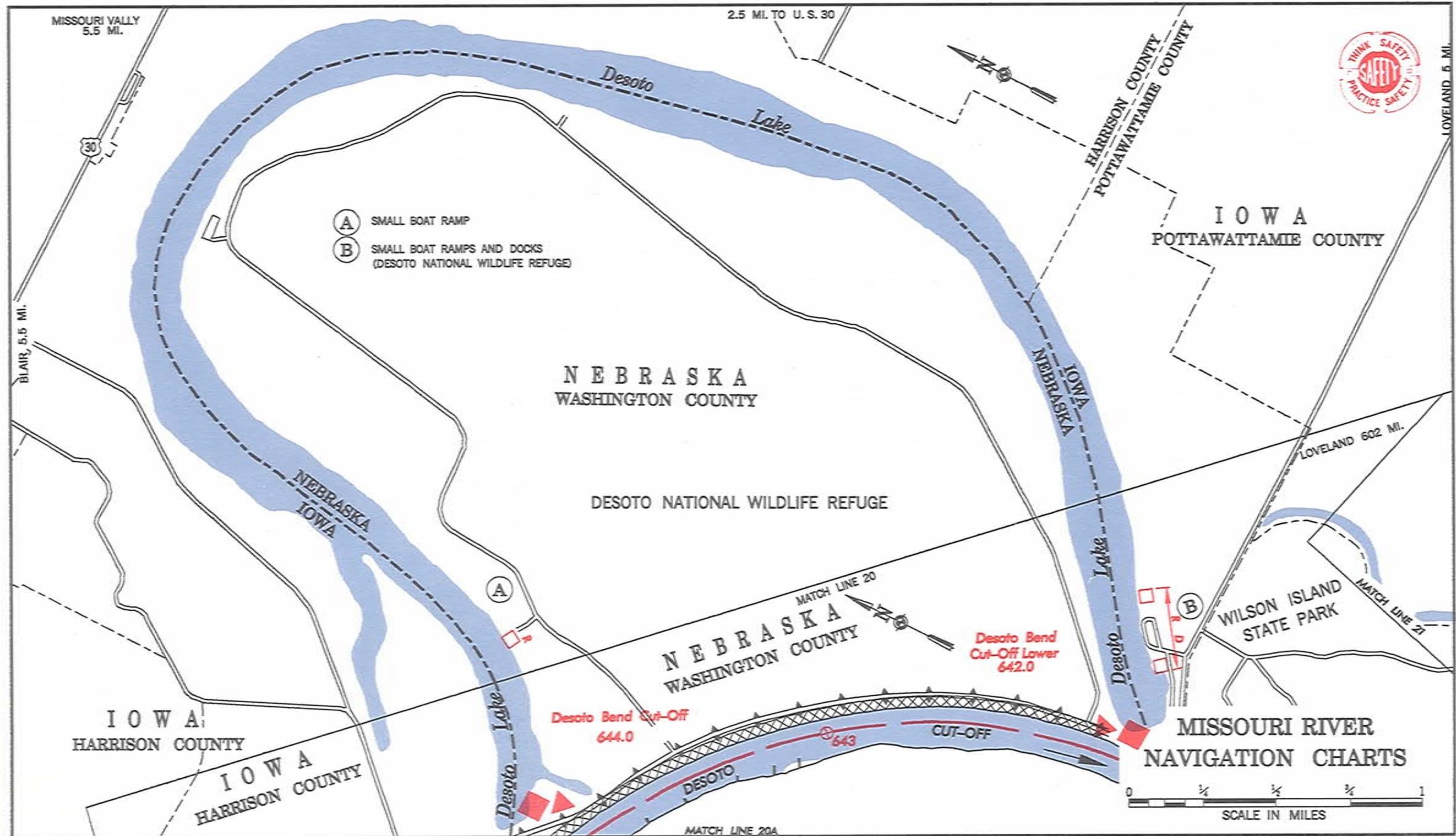
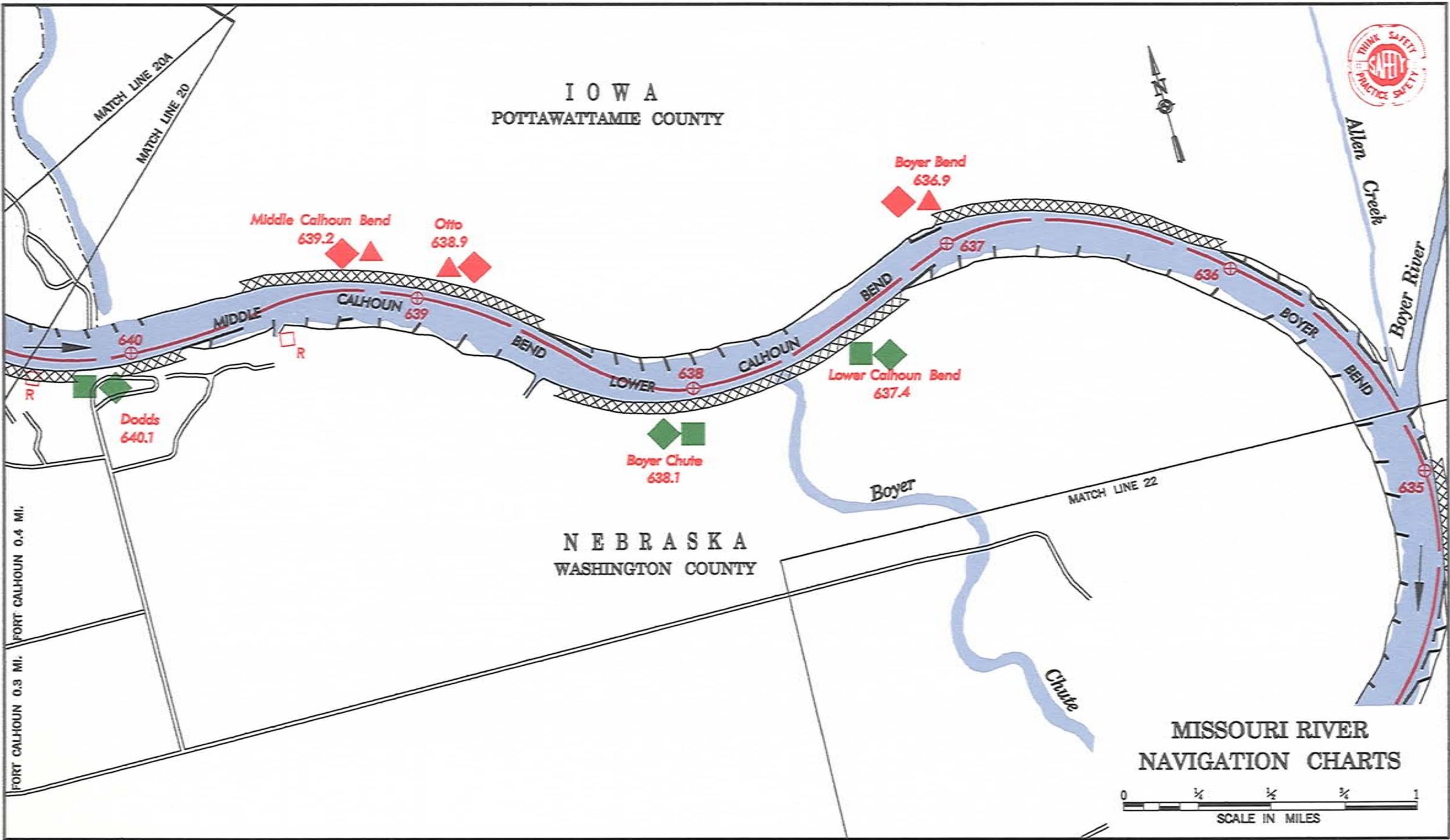


CHART NO. 20





IOWA
POTTAWATTAMIE COUNTY



MISSOURI RIVER
NAVIGATION CHARTS

0 $\frac{1}{4}$ $\frac{1}{2}$ $\frac{3}{4}$ 1
SCALE IN MILES

CHART NO. 21

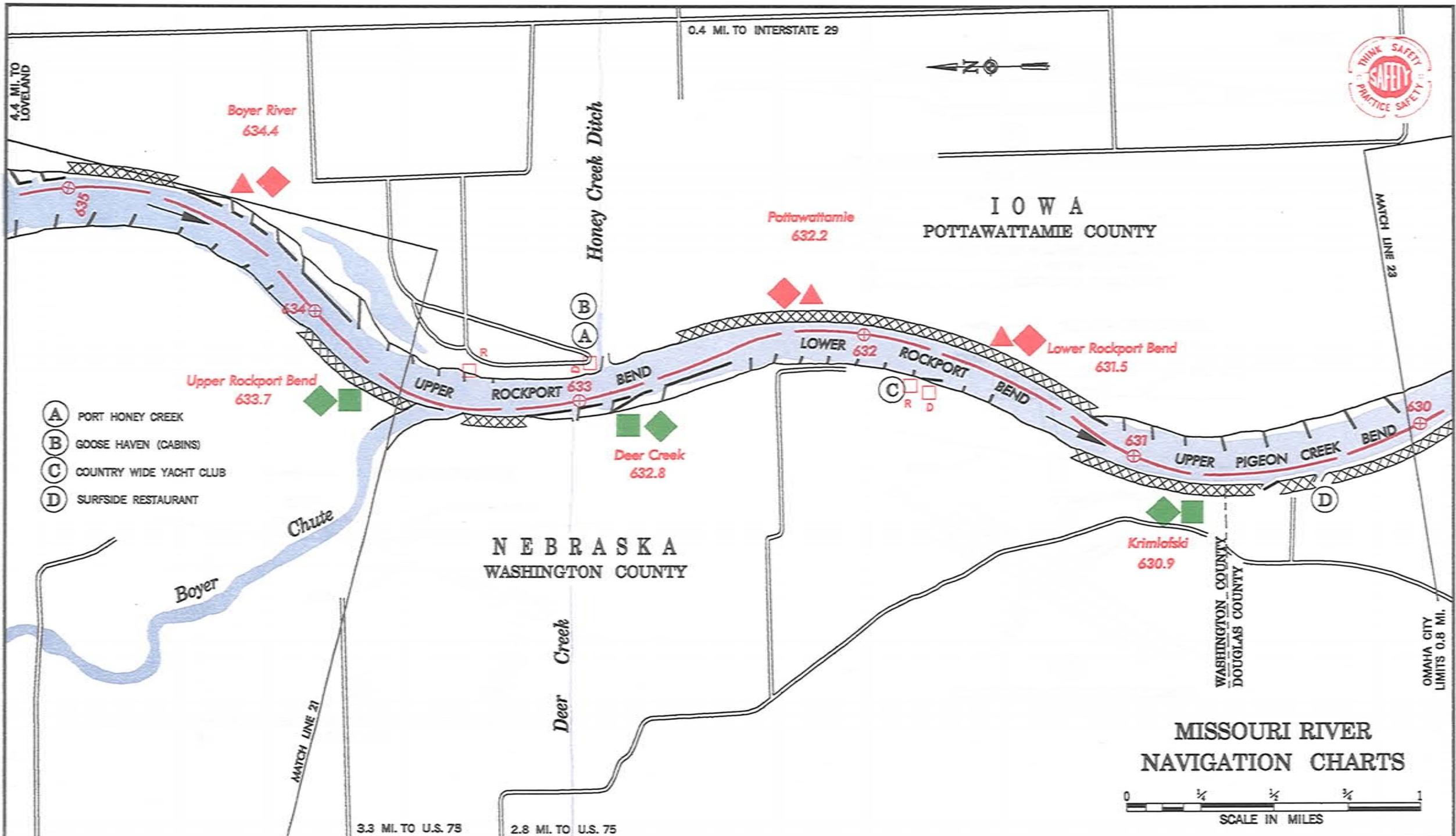
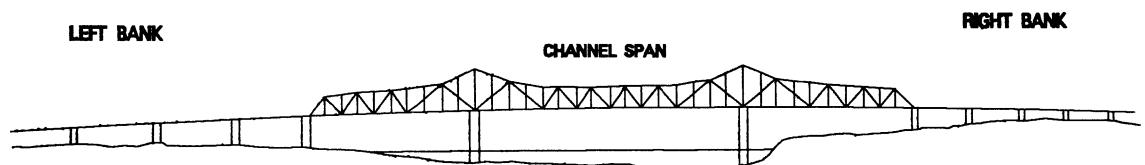


CHART NO. 22



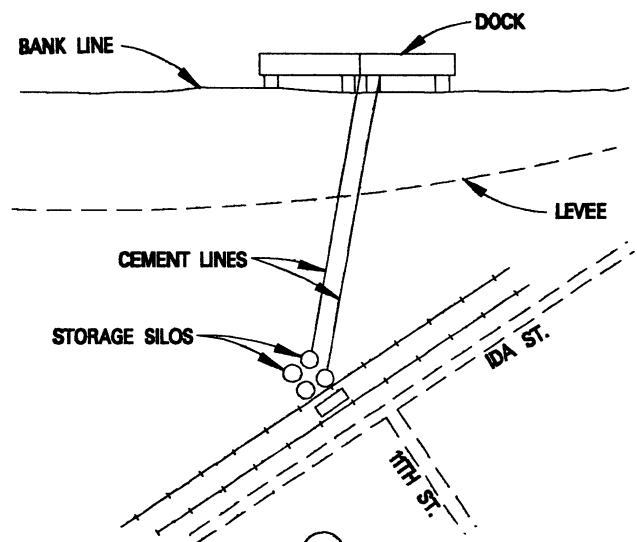
NORTH OMAHA HWY. BRIDGES (INTERSTATE 680)

Mile 626.5

CHANNEL SPAN DATA

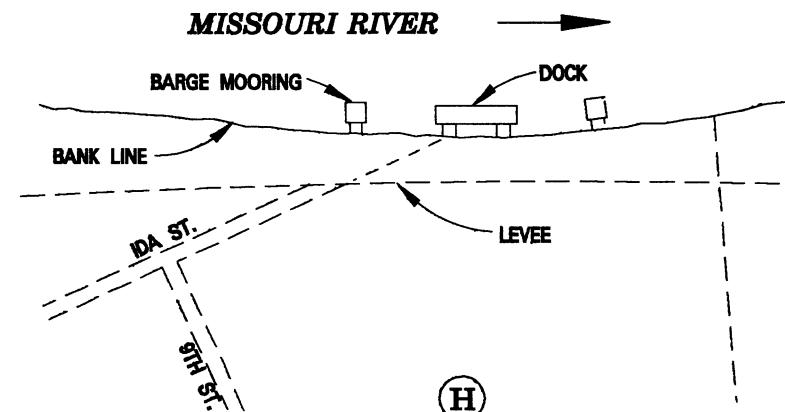
| | |
|---|-------|
| TYPE | FIXED |
| HORZ. CLEARANCE | 40' |
| VERT. CLEARANCE (NORMAL NAVIGATION FLOW OMAHA GAGE READING 16.5) | 60' |
| VERT. CLEARANCE (FLOOD STAGE) | 48' |

MISSOURI RIVER →



MISSOURI PORTLAND CEMENT CO.

Mile 624.2



AMERICAN COMMERCIAL MARINE SERVICES (HARTLAND TERMINAL)

Mile 624.0

0.6 MI. TO INTERSTATE 29
CRESCENT 3 MI.

I O W A
POTTAWATTAMIE COUNTY

MATCH LINE 22

Thomton
629.3

CHMEE

PIGEON

CREE

Lower Pigeon Creek Bend

NEBRASKA
DOUGLAS COUNTY

Pigeon Creek Bend
629.9

1

DODGE PARK
REC. AREA

Douglas County
627.3

- 1 NORTH OMAHA HWY. BRIDGES (MORMON & I-680 BRIDGES)
- 2 O.P.P.D. OVERHEAD TRANS. LINE
- A BOAT RAMP (DODGE PARK REC. AREA)
- B MISSOURI RIVER PROJECT OFFICE (CORPS OF ENGINEERS)
- C U.S. COAST GUARD MOORINGS
- D M.U.D. WATER WORKS INTAKE
- E O.P.P.D. POWER PLANT
- F PENTZIEN, INC. BOATWAYS
- G MISSOURI PORTLAND CEMENT CO.
- H AMERICAN COMMERCIAL MARINE SERVICES

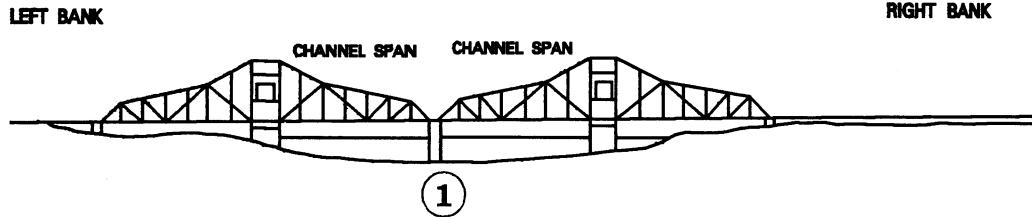


**Florence
Bend Lower
623.2**

CHART NO. 23

MISSOURI RIVER
NAVIGATION CHARTS

A horizontal scale bar with tick marks at 0, $\frac{1}{4}$, $\frac{1}{2}$, $\frac{3}{4}$, and 1. The text "SCALE IN MILES" is centered below the bar.

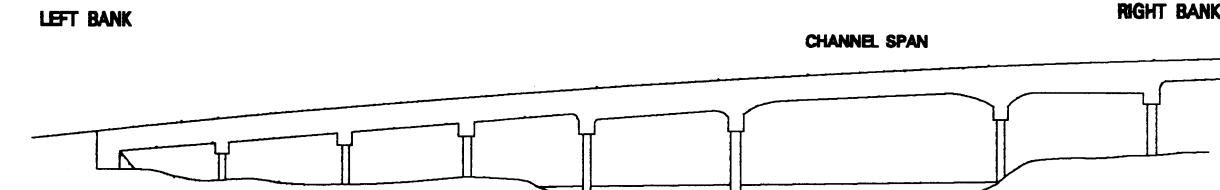


C. C. & P. R. R. BRIDGE

Mile 618.3

CHANNEL SPAN DATA

| | |
|--|-------|
| TYPE | SWING |
| HORIZ. CLEARANCE | 236' |
| VERT. CLEARANCE (NORMAL NAVIGATION FLOW) | |
| OMAHA GAGE READING 6.6 | 20' |
| VERT. CLEARANCE (CLOSED) (FLOOD STAGE) | 8' |

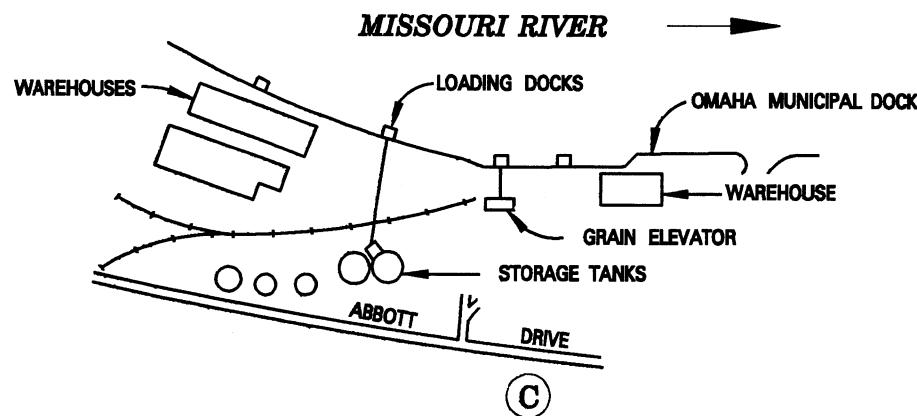


INTERSTATE 480 HWY. BRIDGE

Mile 615.9

CHANNEL SPAN DATA

| | |
|--|-------|
| TYPE | FIXED |
| HORIZ. CLEARANCE | 400' |
| VERT. CLEARANCE (NORMAL NAVIGATION FLOW) | |
| OMAHA GAGE READING 6.6 | 54' |
| VERT. CLEARANCE (FLOOD STAGE) | 42' |



AMERICAN COMMERCIAL MARINE SERVICES

AND OMAHA MUNICIPAL DOCK

Mile 616.3

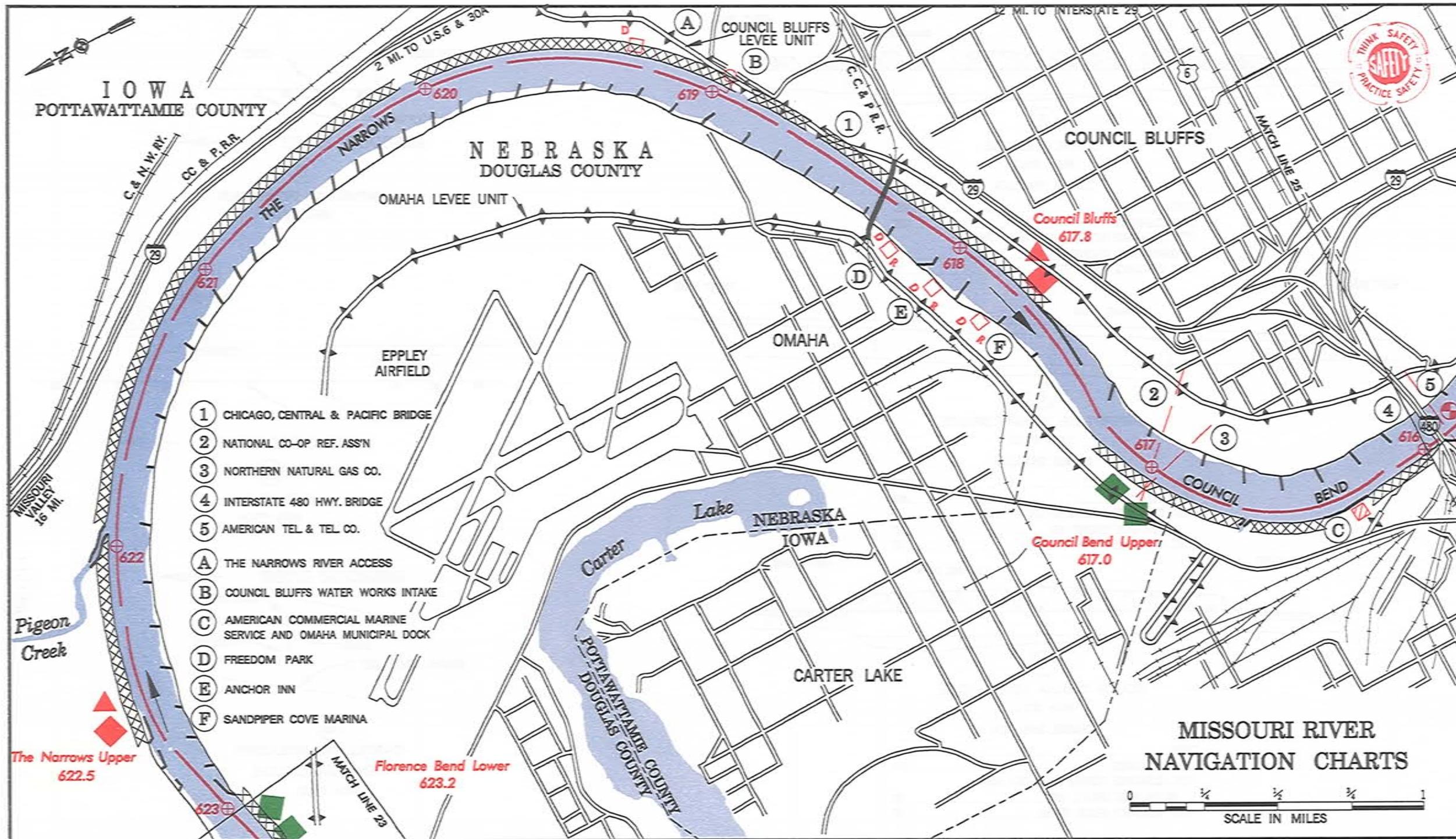
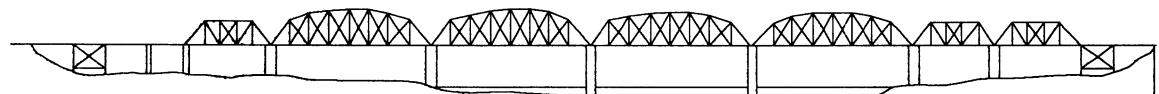


CHART NO. 24

LEFT BANK

CHANNEL SPAN

RIGHT BANK



U. P. R. R. BRIDGE

Mile 615.2

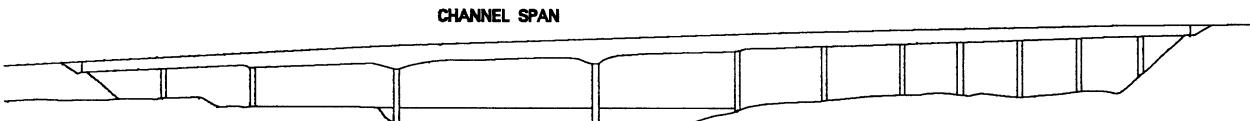
CHANNEL SPAN DATA

| | |
|--|-------|
| TYPE | FIXED |
| HORIZ. CLEARANCE | 238' |
| VERT. CLEARANCE (NORMAL NAVIGATION FLOW) | |
| OMAHA GAGE READING 6.6) | 62' |
| VERT. CLEARANCE (FLOOD STAGE) | 50' |

LEFT BANK

RIGHT BANK

CHANNEL SPAN



INTERSTATE 80 HWY. BRIDGE

Mile 613.9

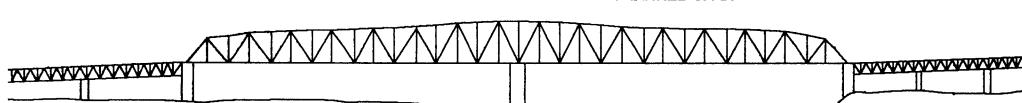
CHANNEL SPAN DATA

| | |
|--|-------|
| TYPE | FIXED |
| HORIZ. CLEARANCE | 400' |
| VERT. CLEARANCE (NORMAL NAVIGATION FLOW) | |
| OMAHA GAGE READING 6.6) | 57' |
| VERT. CLEARANCE (FLOOD STAGE) | 45' |

LEFT BANK

RIGHT BANK

CHANNEL SPAN



SOUTH OMAHA HWY. BRIDGE

Mile 612.2

CHANNEL SPAN DATA

| | |
|--|-------|
| TYPE | FIXED |
| HORIZ. CLEARANCE | 514' |
| VERT. CLEARANCE (NORMAL NAVIGATION FLOW) | |
| OMAHA GAGE READING 6.6) | 62' |
| VERT. CLEARANCE (FLOOD STAGE) | 50' |

HIGH BANK

DOCK

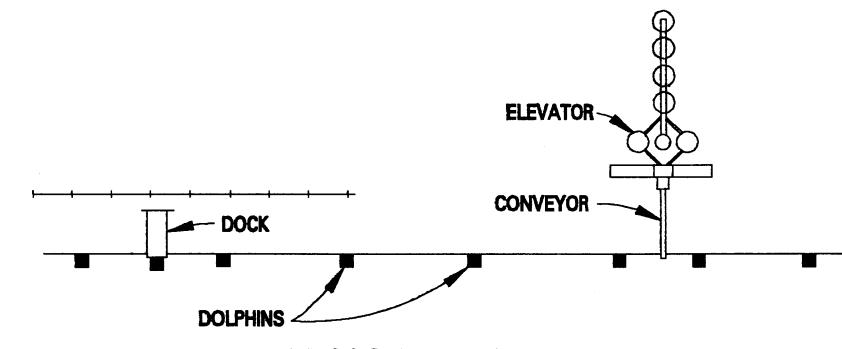
DOLPHINS

MISSOURI RIVER

(D)

FARMLAND INDUSTRIES

Mile 614.5



MISSOURI RIVER

(E)

CARGILL, INC.

Mile 614.4

MISSOURI RIVER

DOLPHINS

DOCK

Pipeline

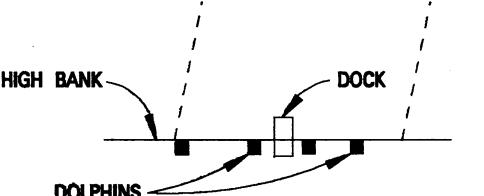
OMAHA LEVEE UNIT 2

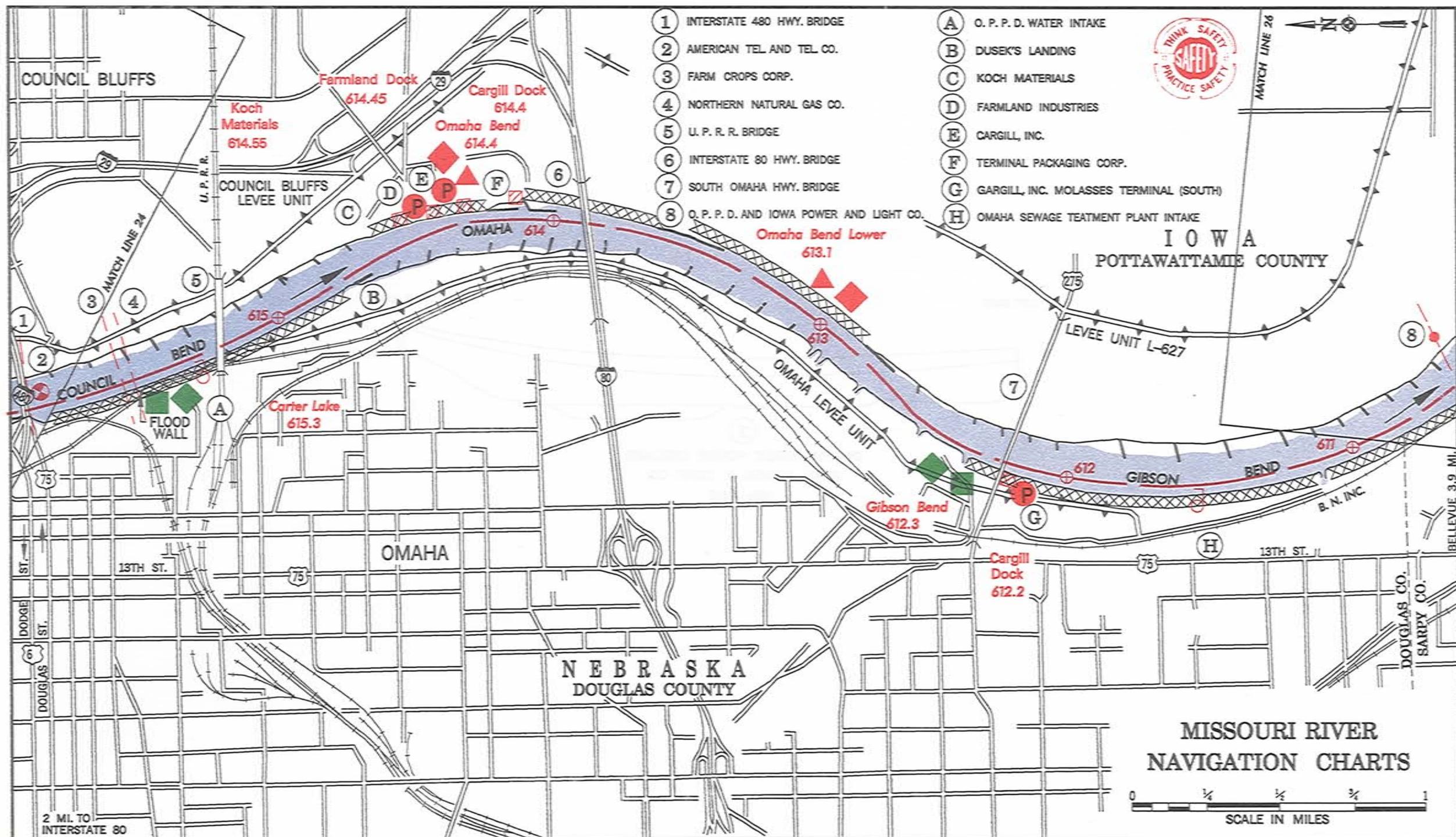
(G)

GARGILL, INC. MOLASSES

TERMINAL (SOUTH)

Mile 612.2





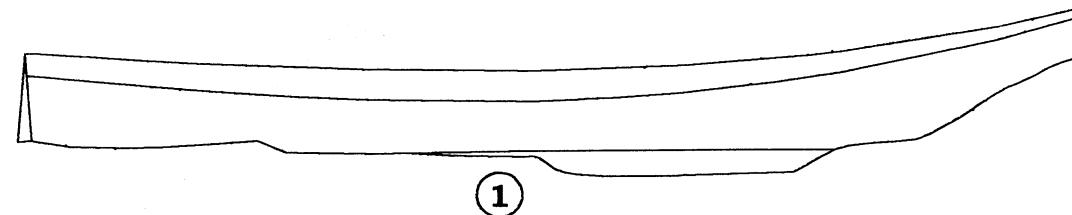
MISSOURI RIVER
NAVIGATION CHARTS

A horizontal scale bar divided into four equal segments. The first segment is labeled '0'. The second segment is labeled ' $\frac{1}{4}$ '. The third segment is labeled ' $\frac{1}{2}$ '. The fourth segment is labeled ' $\frac{3}{4}$ '. Below the scale bar, the text 'SCALE IN MILES' is centered.

CHART NO. 25

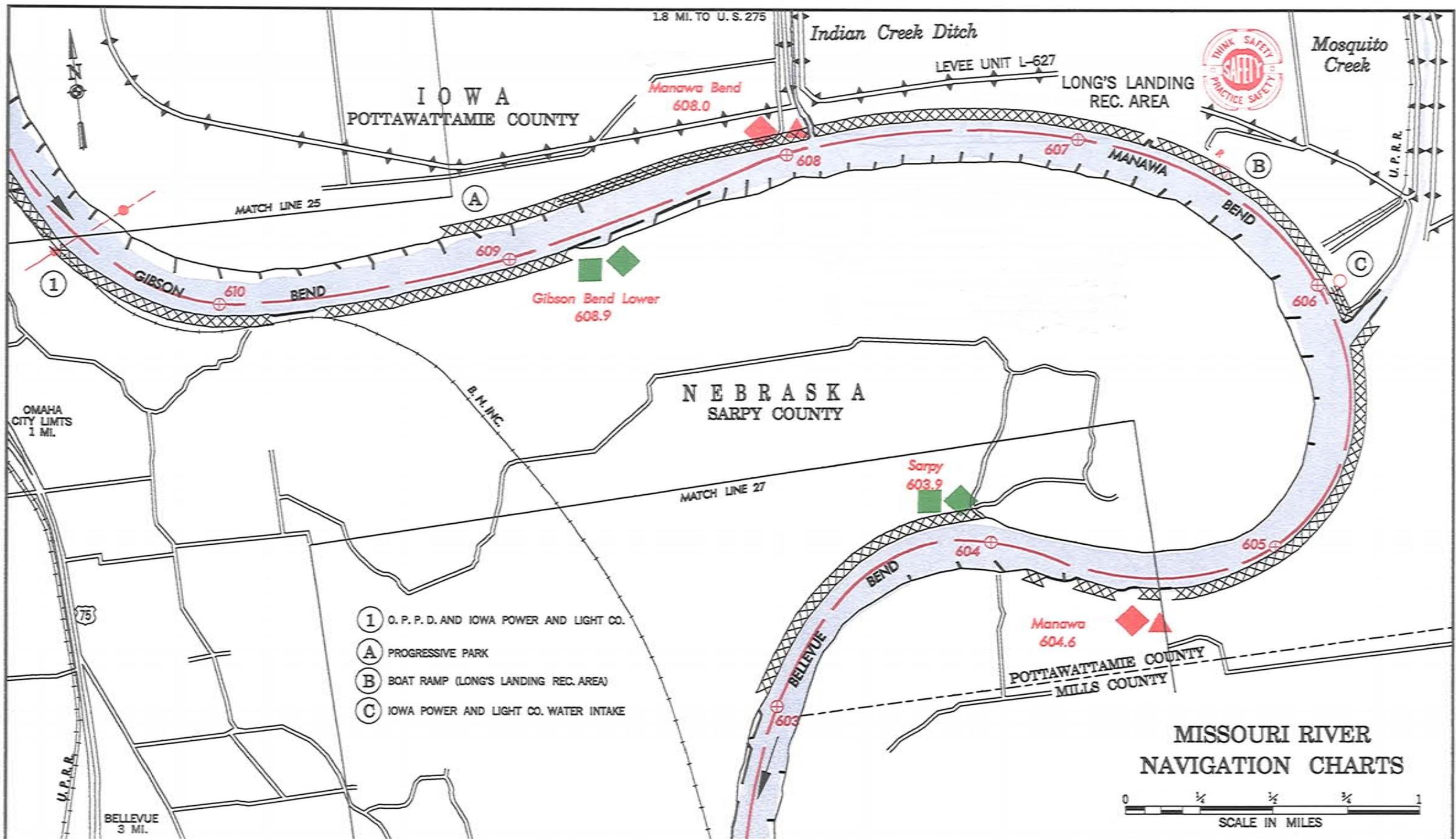
LEFT BANK

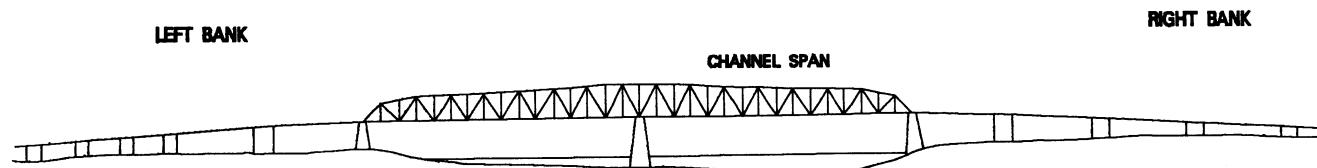
RIGHT BANK



**OMAHA PUBLIC POWER DIST.AND
IOWA POWER & LIGHT CO.**

Mile 610.5





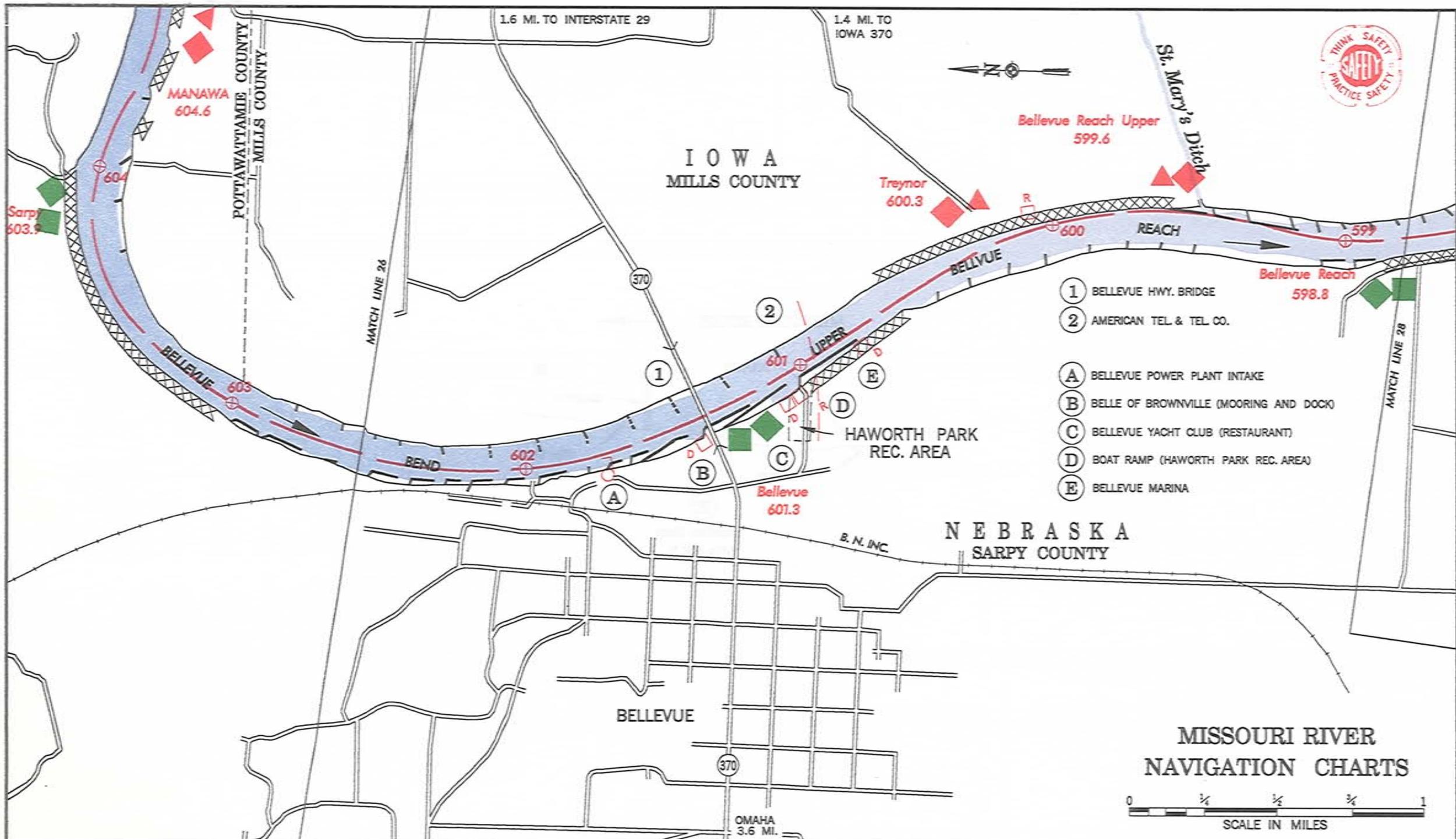
①

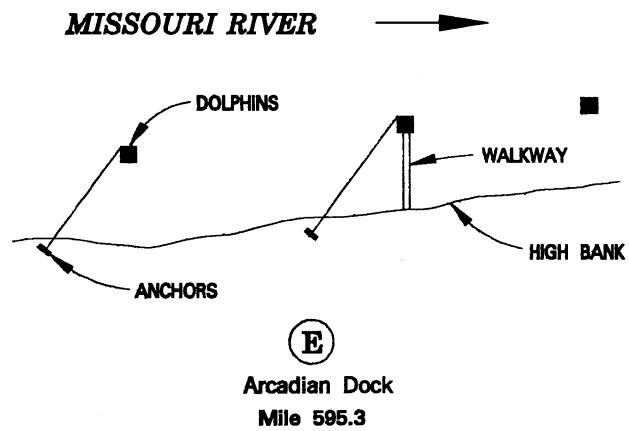
BELLEVUE HWY. BRIDGE

Mile 601.4

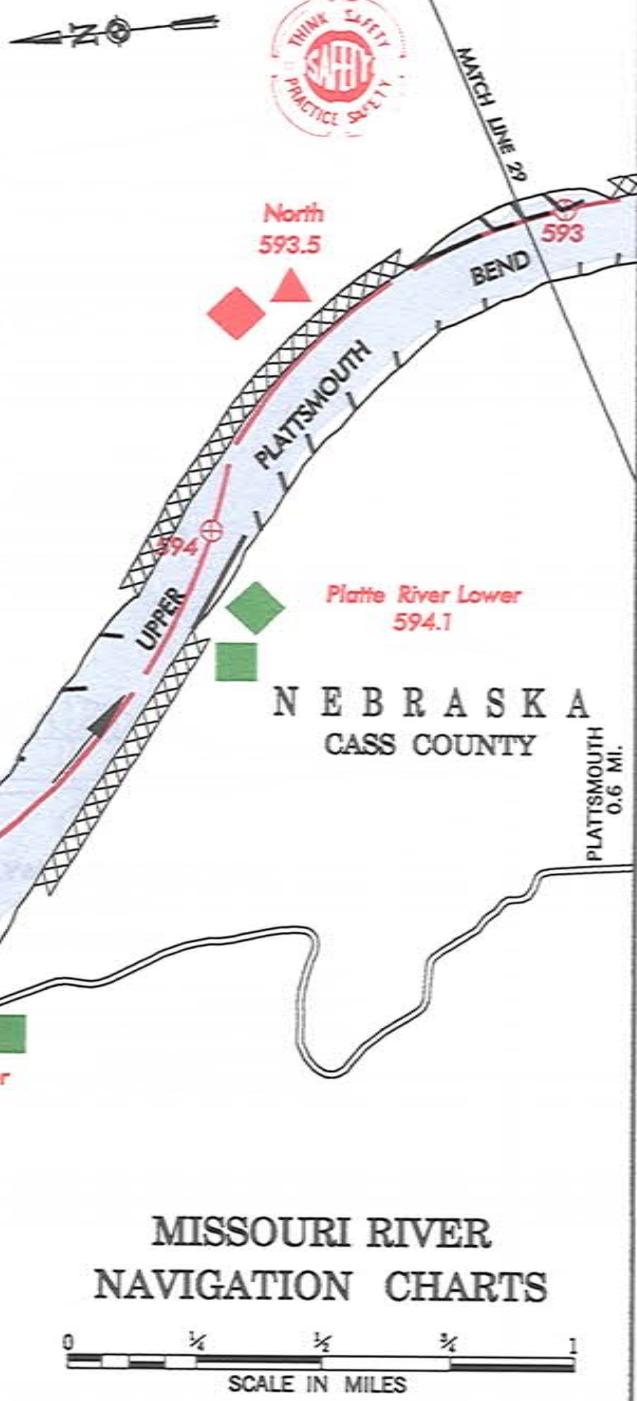
CHANNEL SPAN DATA

| | | |
|--|-------|-------|
| TYPE | ----- | FIXED |
| HORIZ. CLEARANCE | ----- | 400' |
| VERT. CLEARANCE (NORMAL NAVIGATION FLOW) | ----- | |
| OMAHA GAGE READING 0.0) | ----- | 62' |
| VERT. CLEARANCE (FLOOD STAGE) | ----- | 50' |





IOWA
MILLS COUNTY

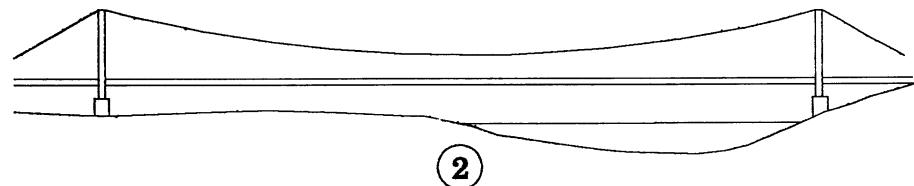


LA PLATTE 1.6 MI.

PLATTE 0.6 MI.

LEFT BANK

RIGHT BANK



NORTHERN NATURAL GAS CO.

PIPELINE BRIDGE

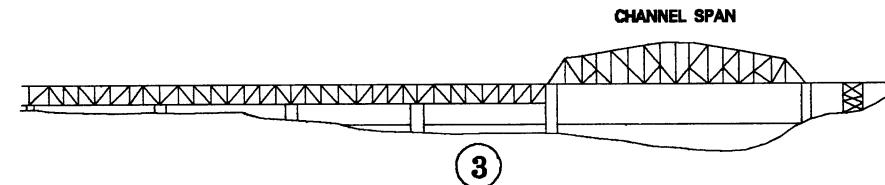
Mile 590.7

CHANNEL SPAN DATA

| | | |
|--|------------|-------|
| TYPE | SUSPENSION | FIXED |
| HORIZ. CLEARANCE | 700' | 392' |
| VERT. CLEARANCE (NORMAL NAVIGATION FLOW) | | |
| PLATTSMOUTH GAGE READING 5.6) | 78' | 58' |
| VERT. CLEARANCE (FLOOD STAGE) | 68' | 48' |

LEFT BANK

RIGHT BANK



BURLINGTON NORTHERN INC. BRIDGE

Mile 590.6

CHANNEL SPAN DATA

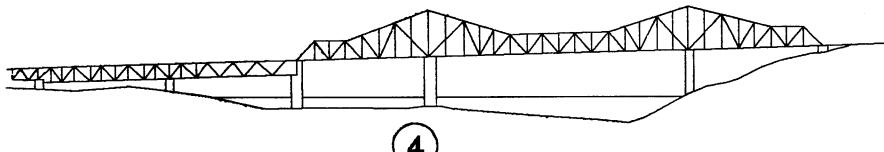
| | |
|--|-------|
| TYPE | FIXED |
| HORIZ. CLEARANCE | 392' |
| VERT. CLEARANCE (NORMAL NAVIGATION FLOW) | |
| PLATTSMOUTH GAGE READING 5.6) | 58' |

VERT. CLEARANCE (FLOOD STAGE) 48'

LEFT BANK

RIGHT BANK

CHANNEL SPAN

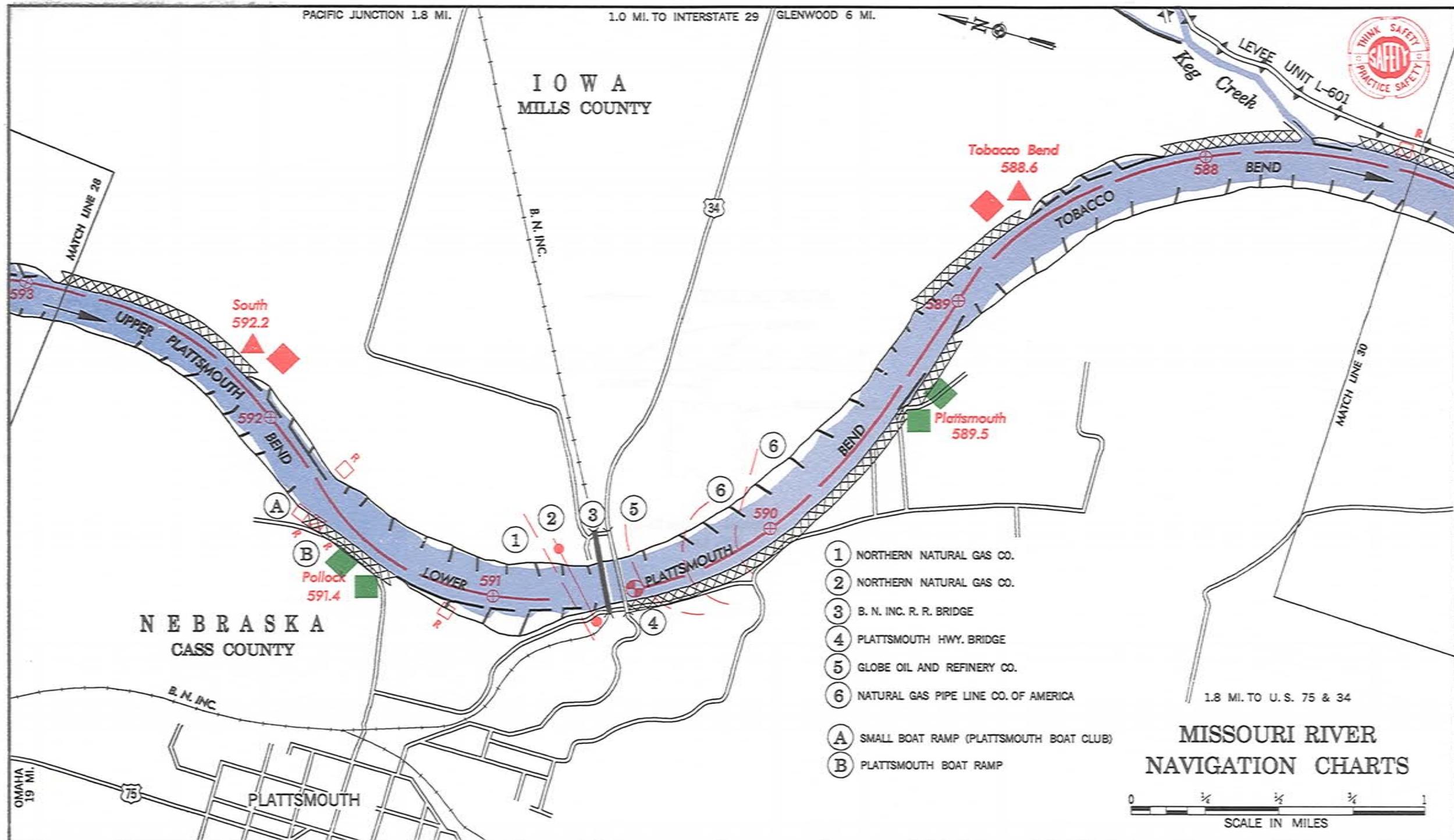


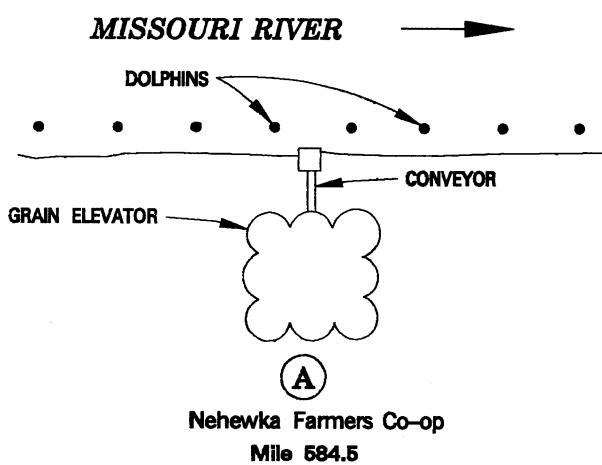
PLATTSMOUTH HWY.BRIDGE

Mile 590.5

CHANNEL SPAN DATA

| | |
|--|-------|
| TYPE | FIXED |
| HORIZ. CLEARANCE | 392' |
| VERT. CLEARANCE (NORMAL NAVIGATION FLOW) | |
| PLATTSMOUTH GAGE READING 5.6) | 63' |
| VERT. CLEARANCE (FLOOD STAGE) | 53' |





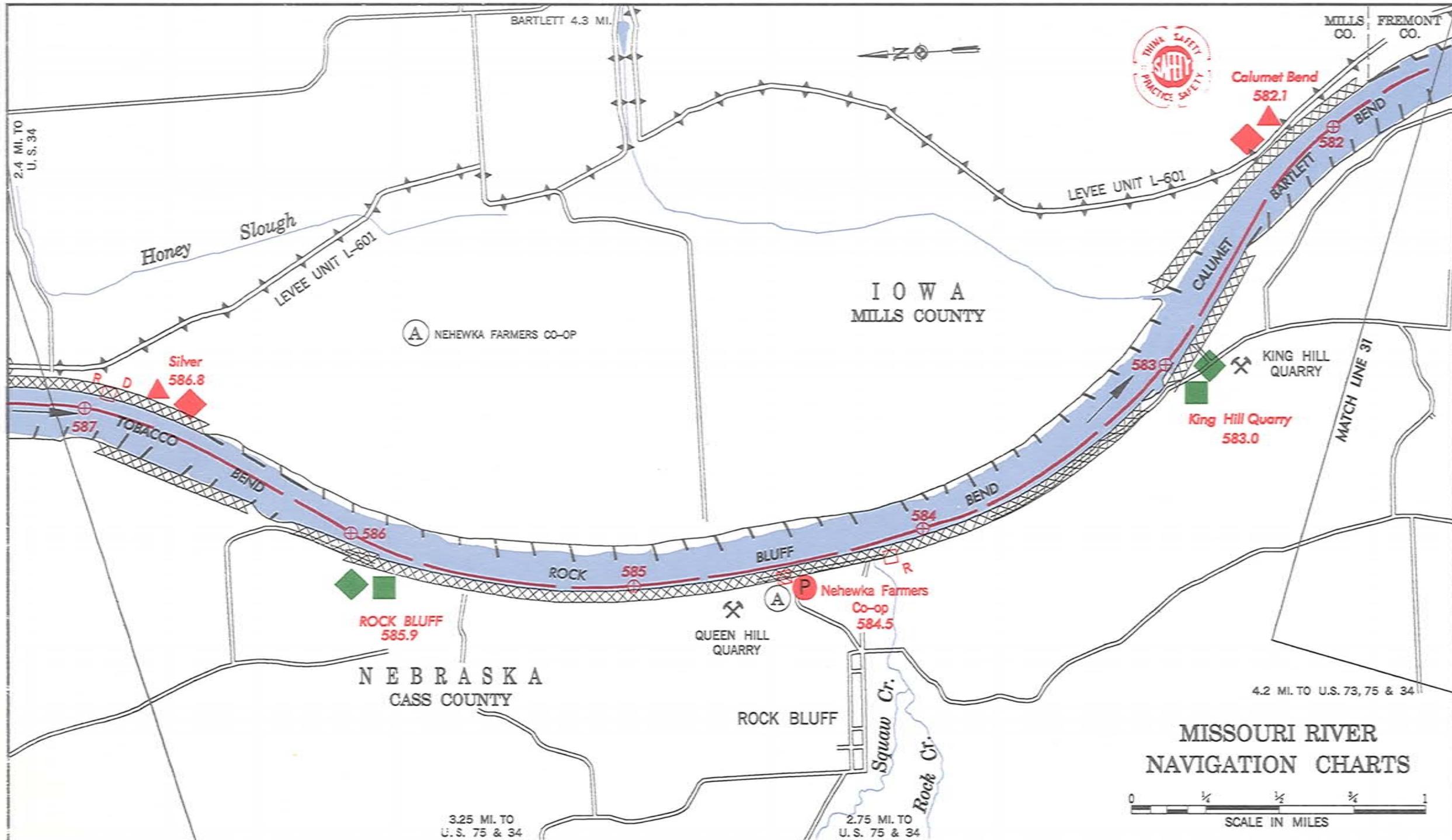


CHART NO. 30

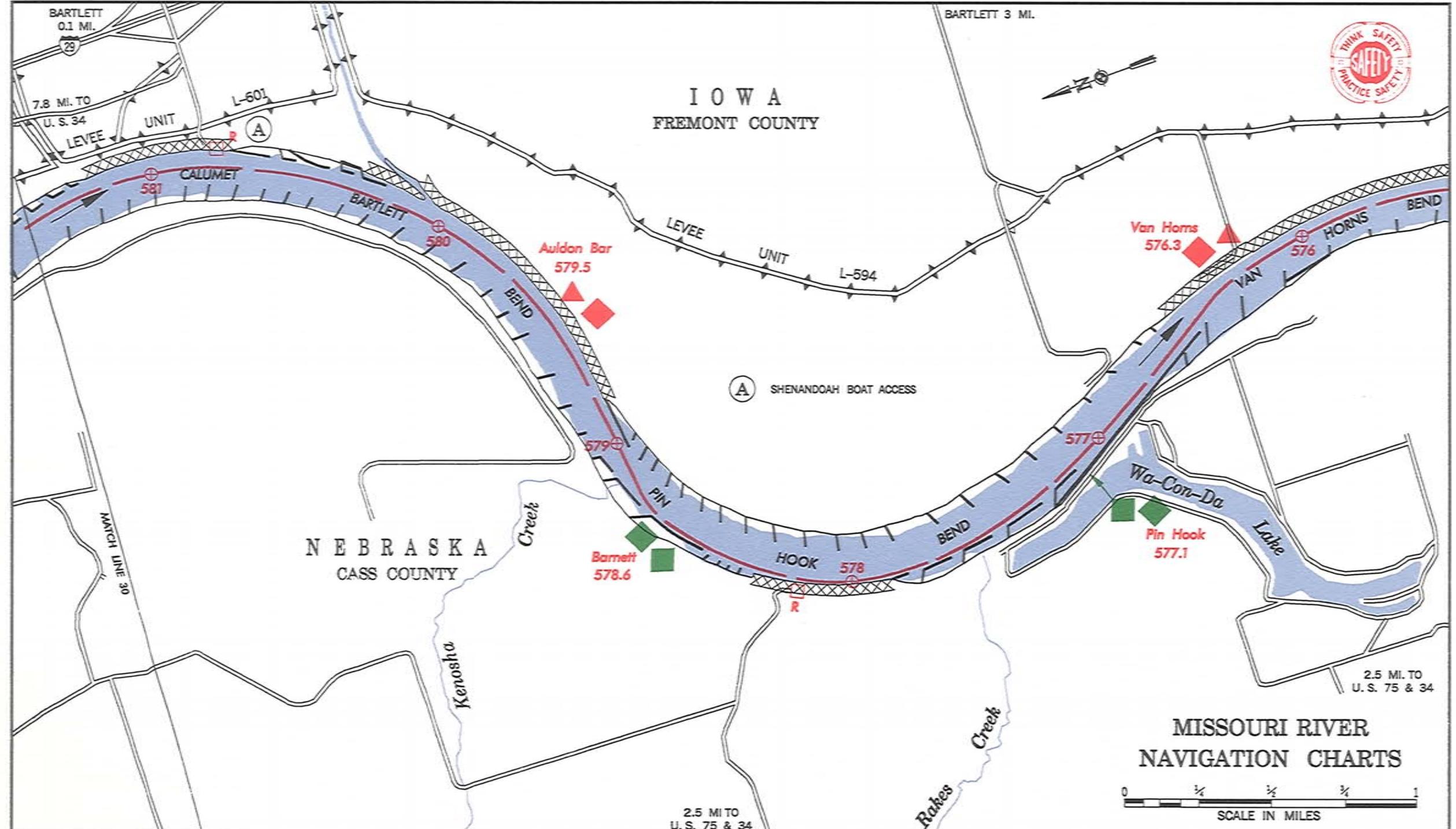
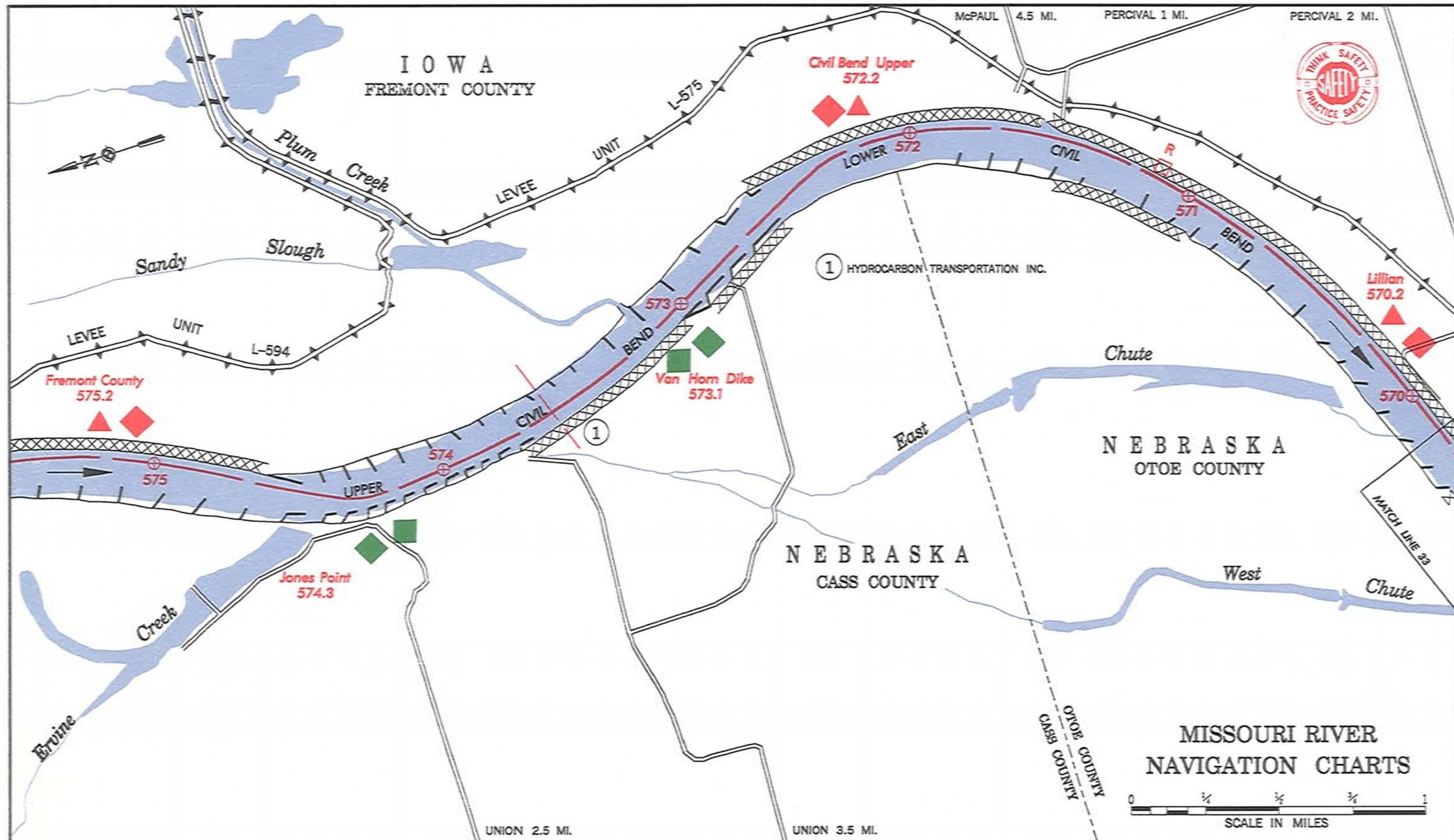


CHART NO. 31



MISSOURI RIVER
NAVIGATION CHARTS

A horizontal scale bar with tick marks at 0, $\frac{1}{4}$, $\frac{1}{2}$, and $\frac{3}{4}$ miles. Below the bar, the text "SCALE IN MILES" is centered.

CHART NO. 32

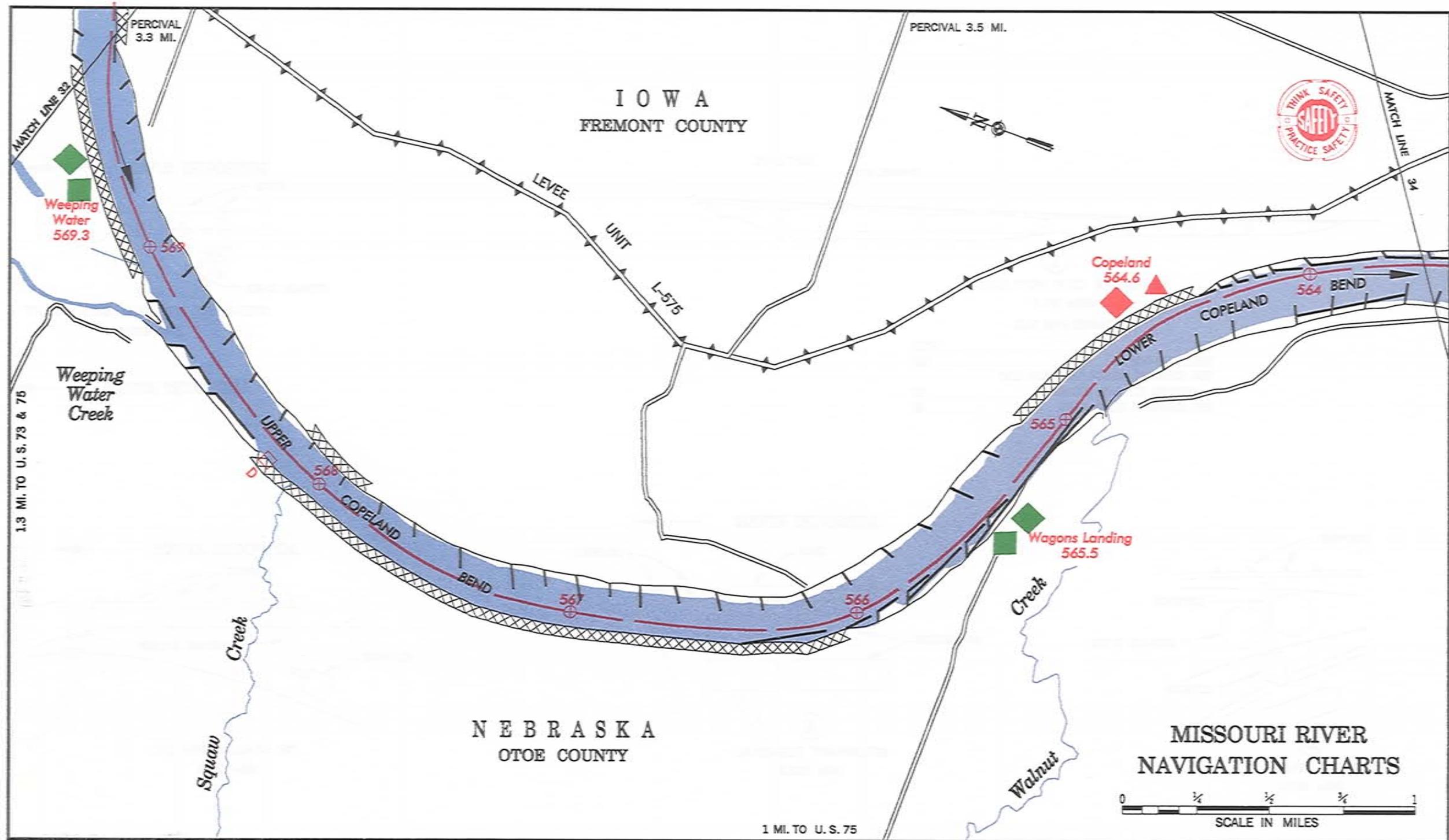
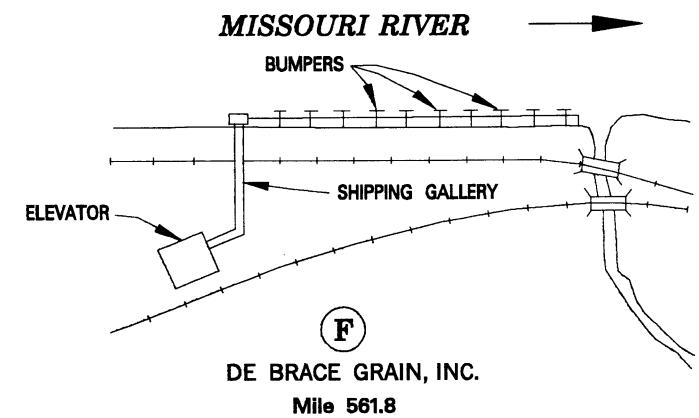
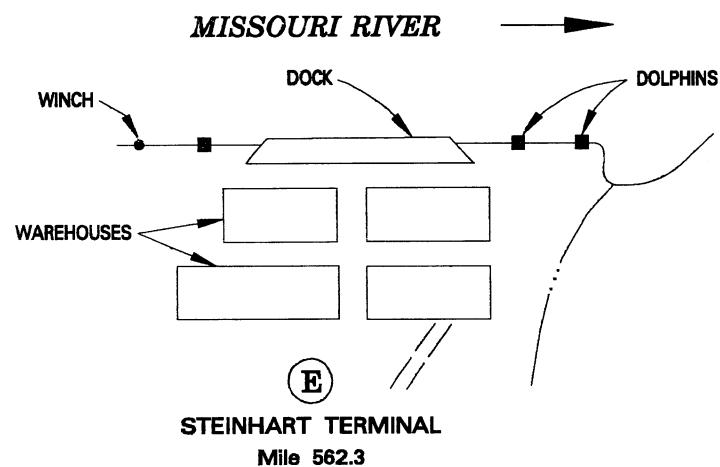
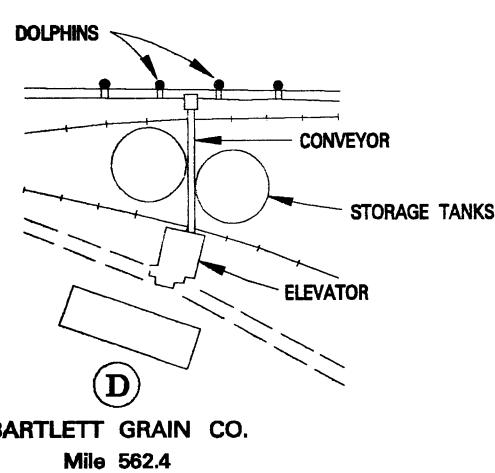
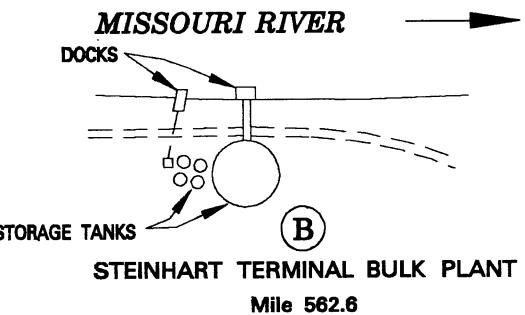
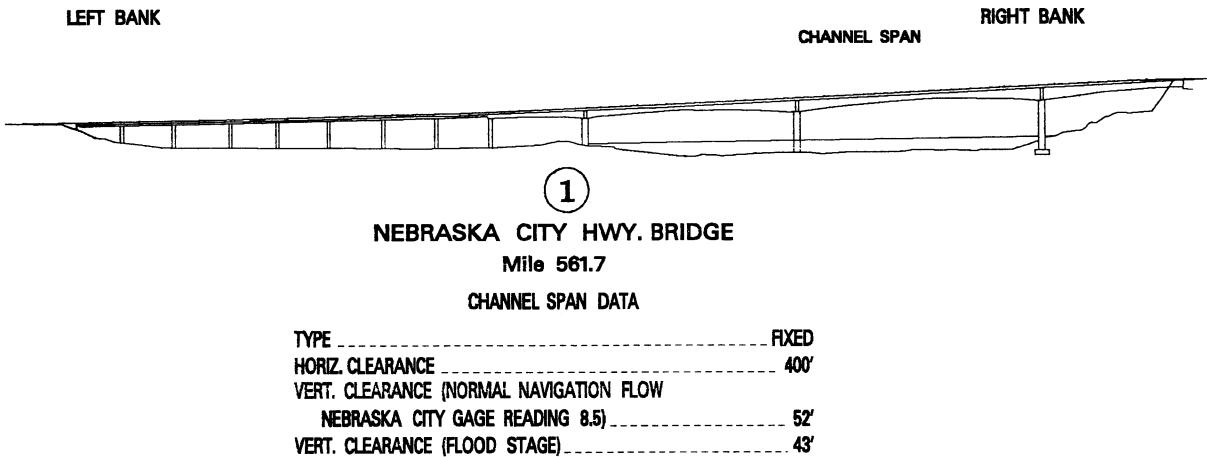
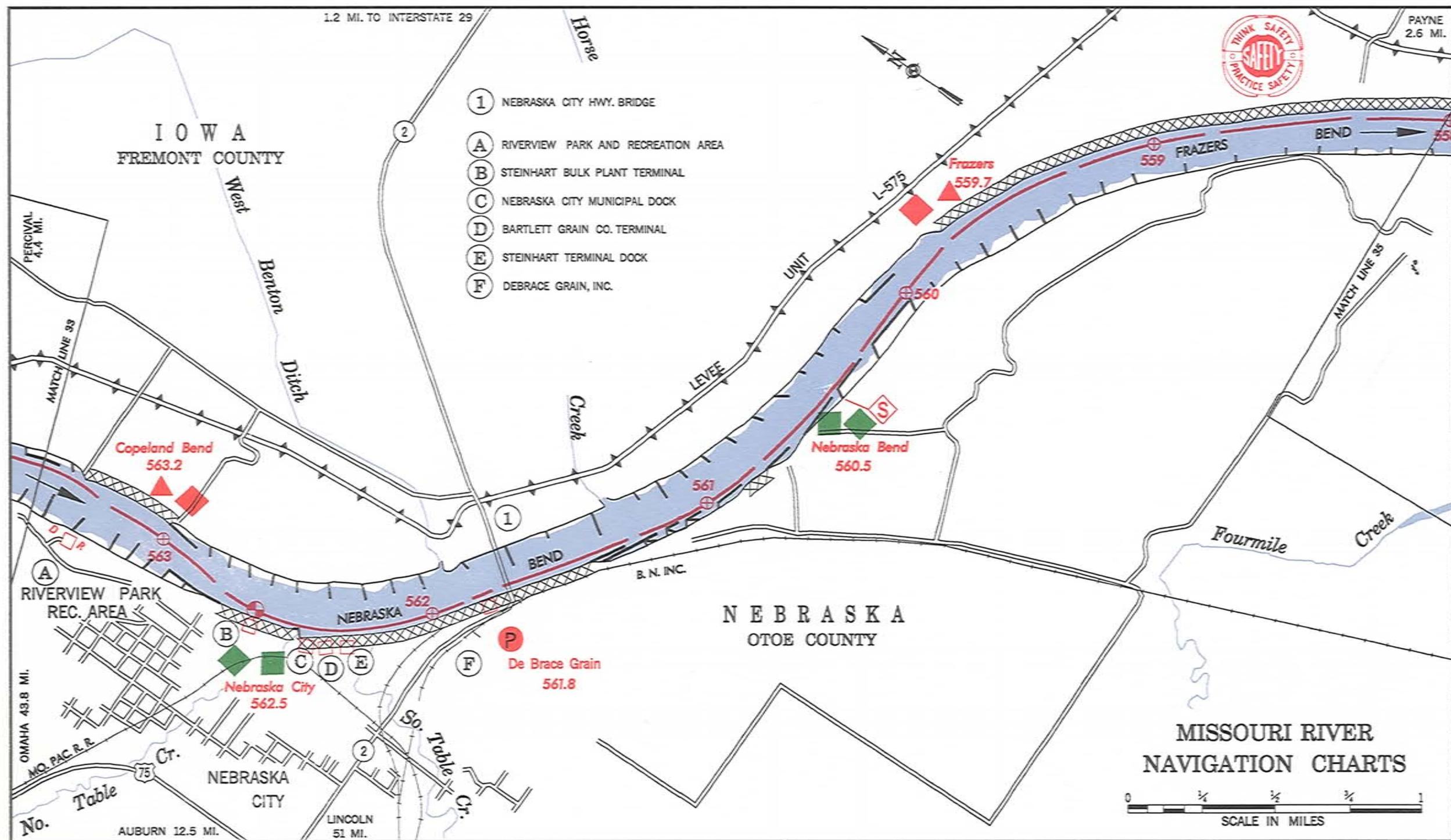


CHART NO. 33





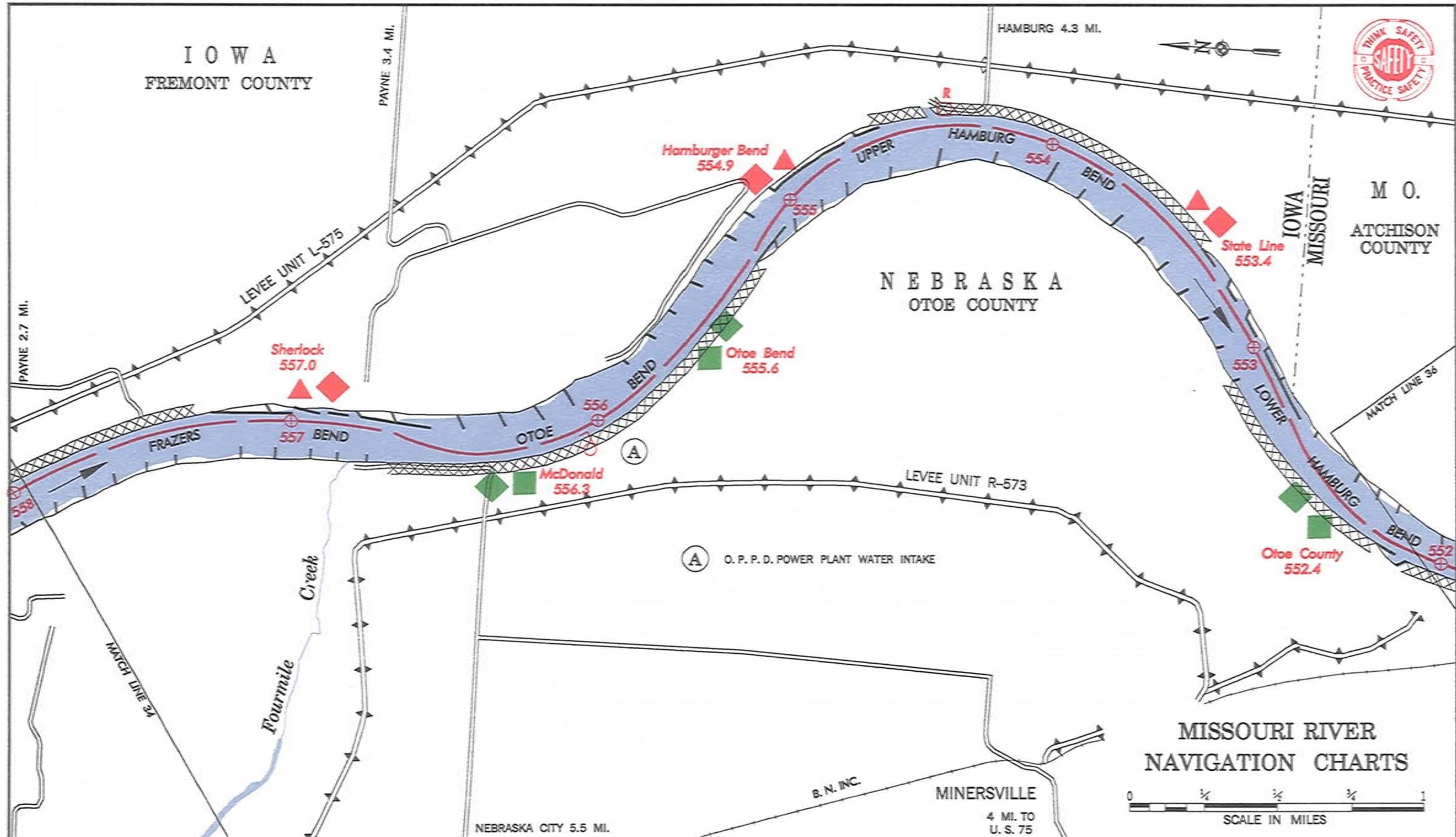


CHART NO. 35

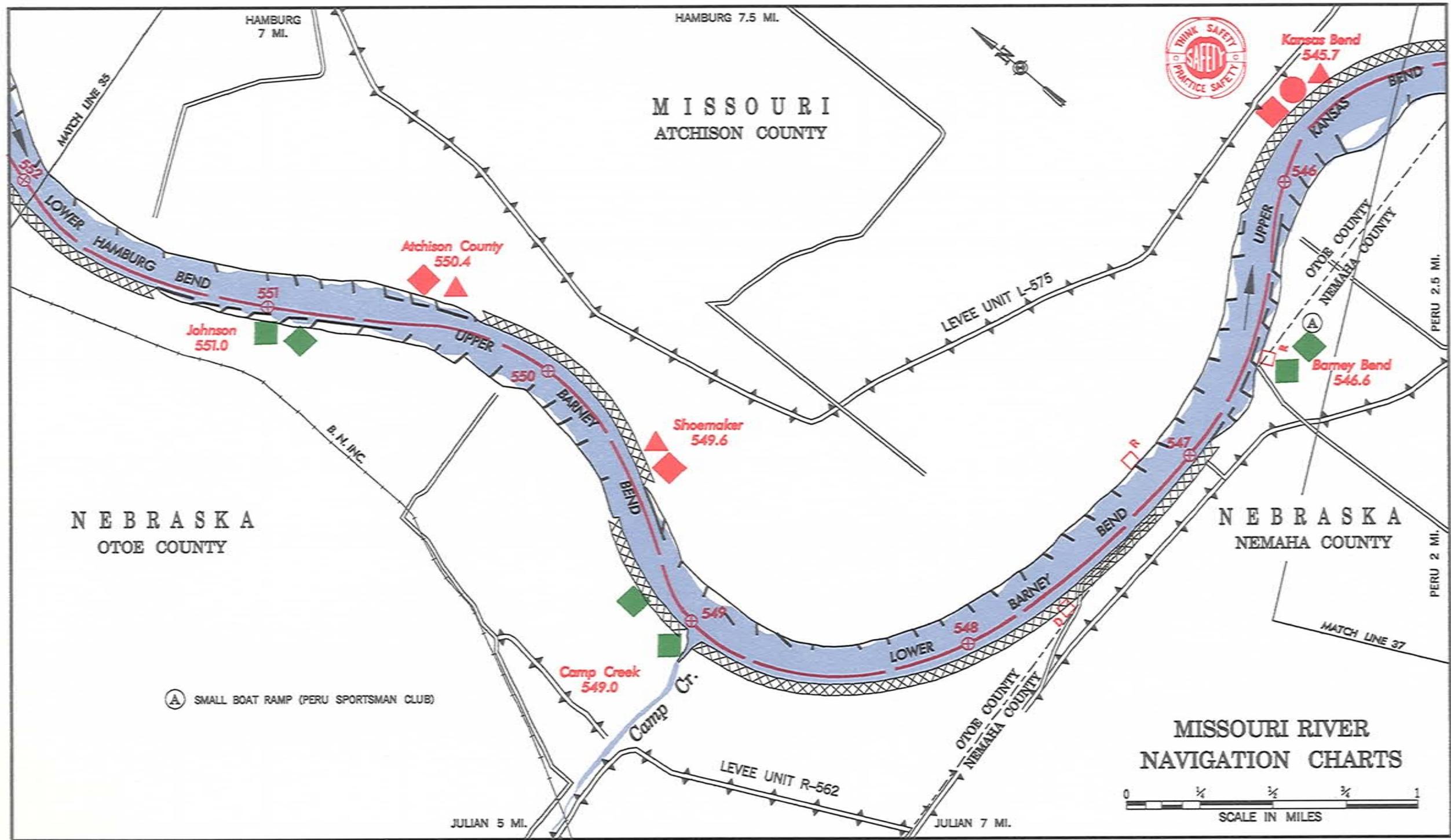
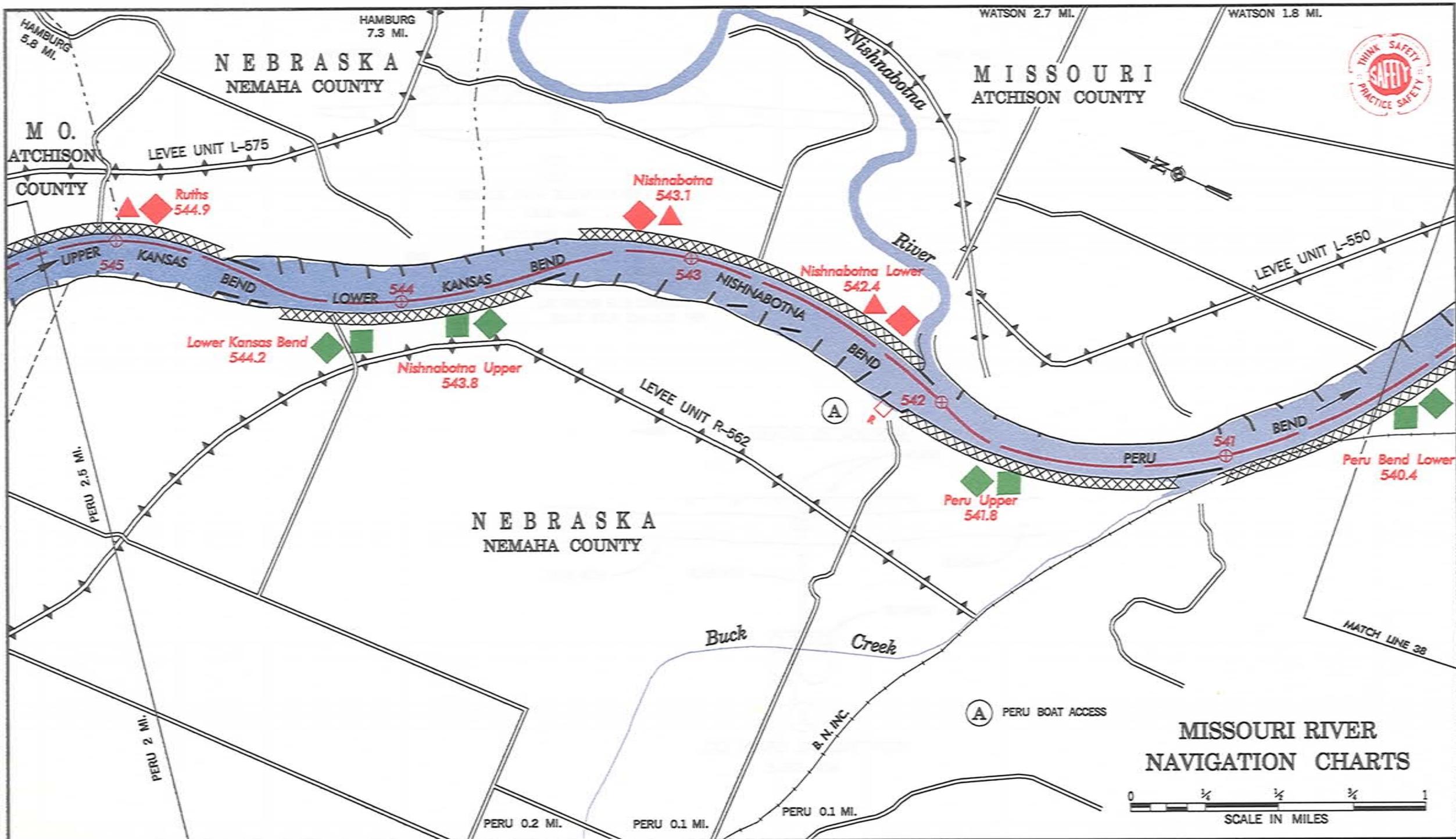


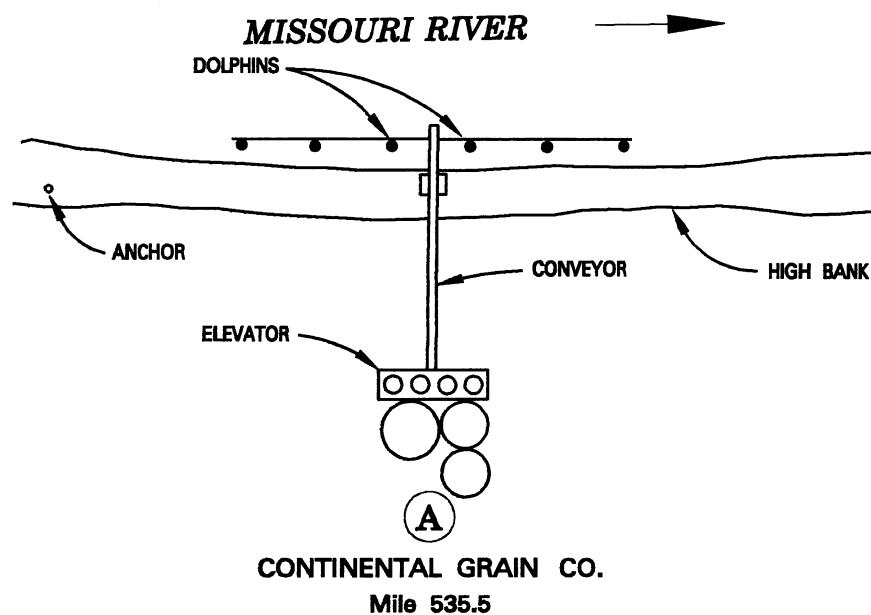
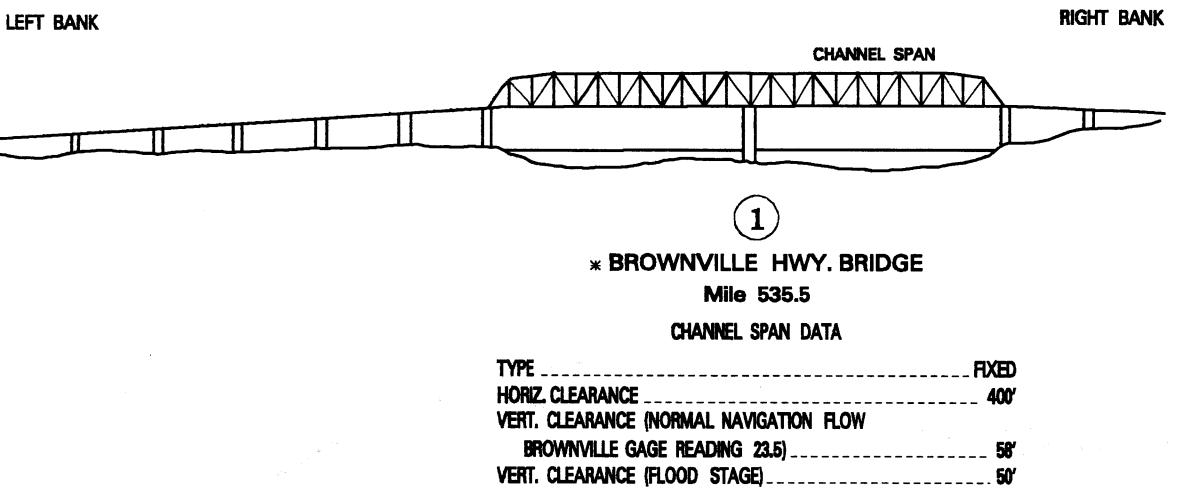
CHART NO. 36



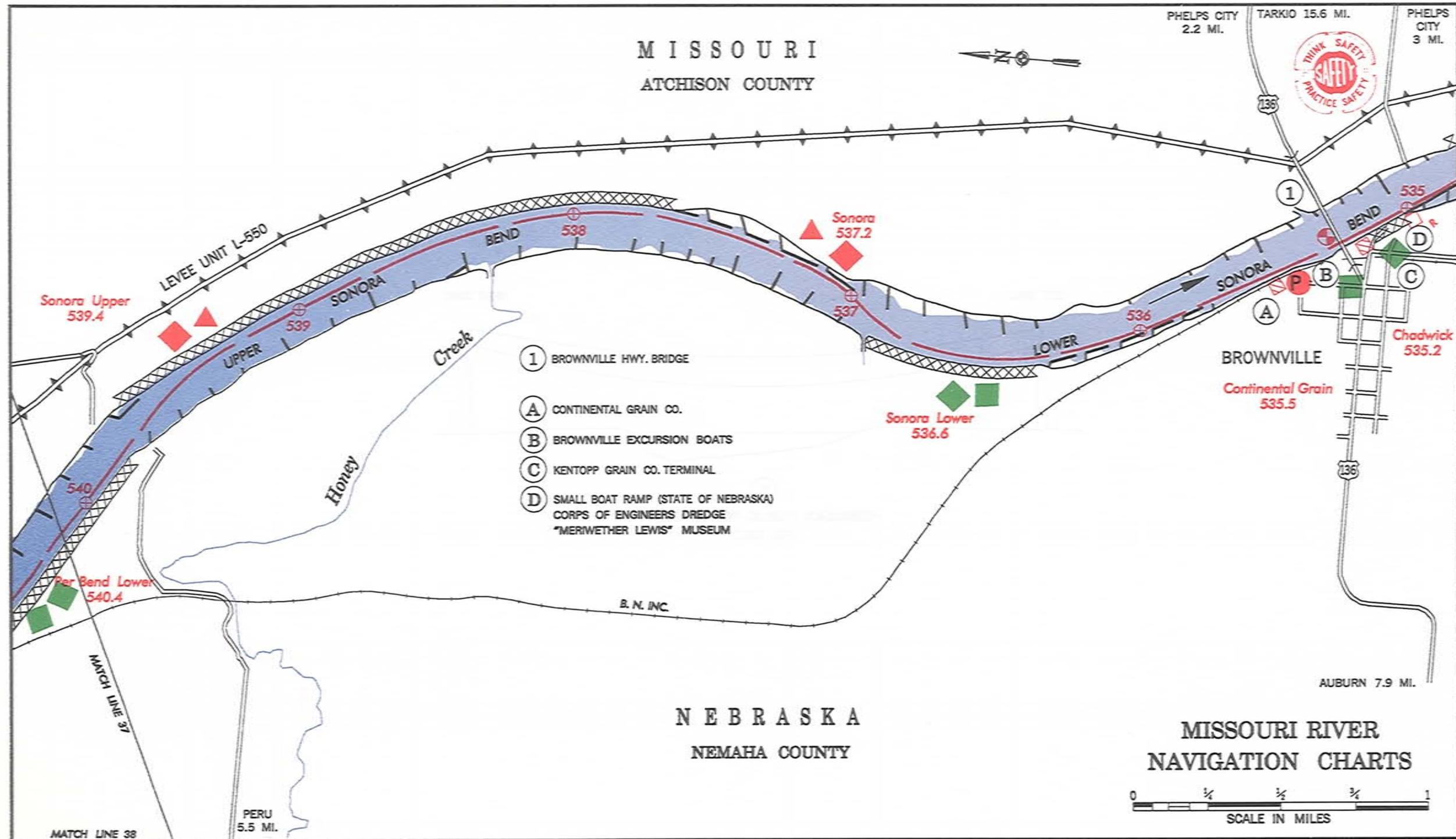
MISSOURI RIVER
NAVIGATION CHARTS

0 $\frac{1}{4}$ $\frac{1}{2}$ $\frac{3}{4}$ 1
SCALE IN MILES

CHART NO. 37



MISSOURI
ATCHISON COUNTY



NEBRASKA
NEMAHIA COUNTY

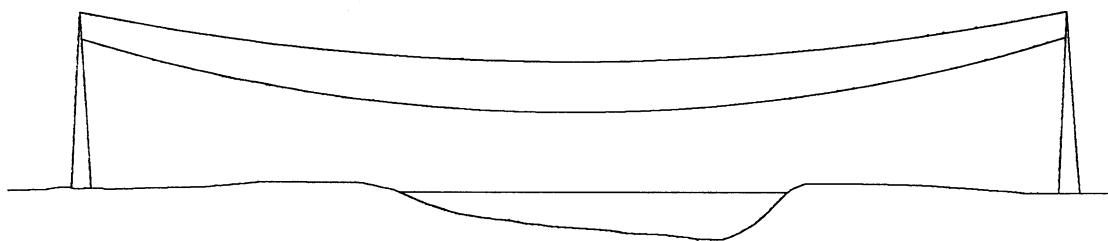
MISSOURI RIVER
NAVIGATION CHARTS

0 $\frac{1}{4}$ $\frac{1}{2}$ $\frac{3}{4}$ 1
SCALE IN MILES

CHART NO. 38

LEFT BANK

RIGHT BANK

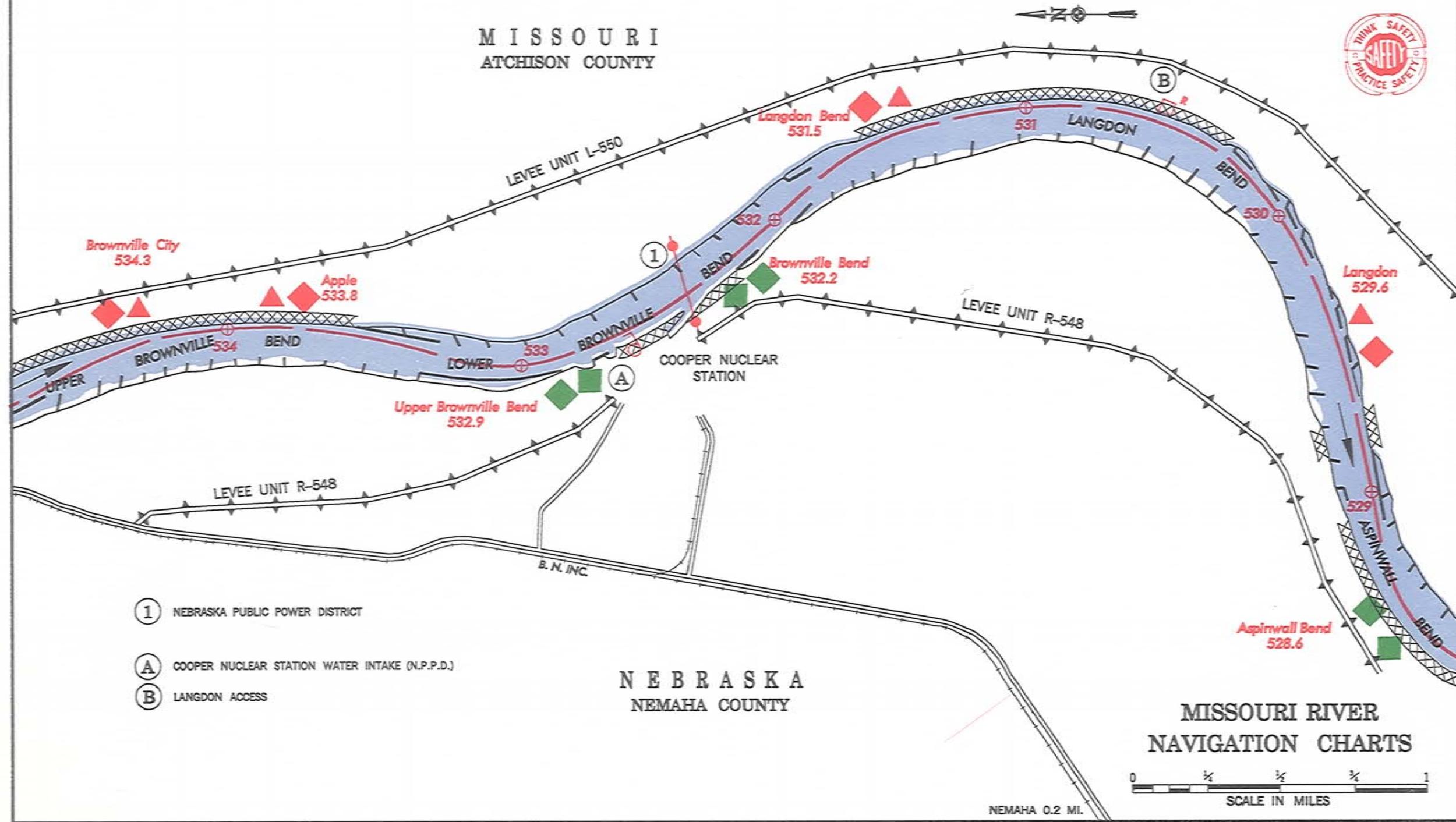


①

NEBRASKA PUBLIC POWER DIST.

Mile 532.3

MISSOURI
ATCHISON COUNTY



NEBRASKA
NEMAHIA COUNTY

MISSOURI RIVER
NAVIGATION CHARTS

NEMAHIA 0.2 MI.

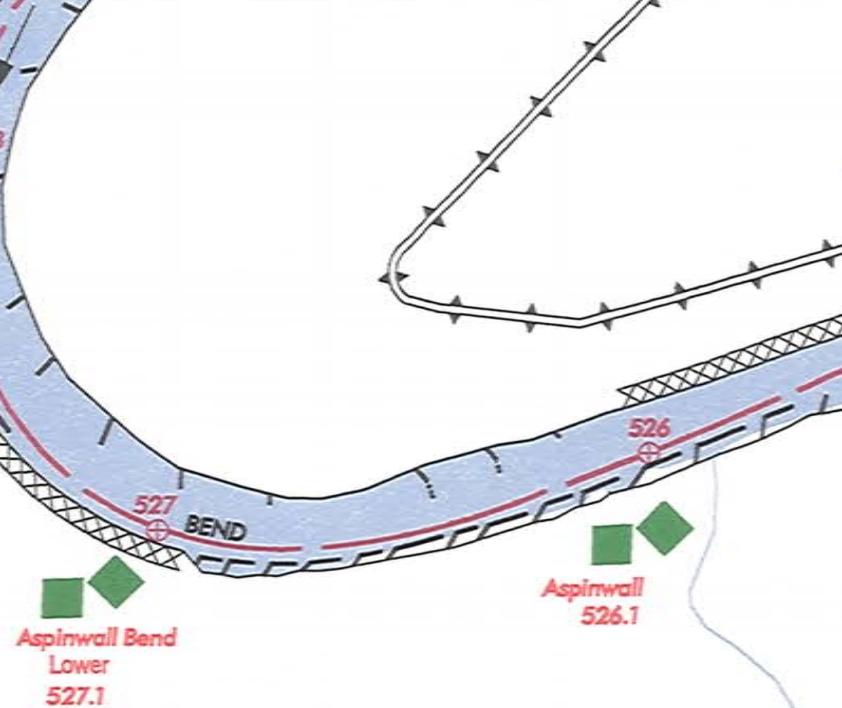
0 $\frac{1}{4}$ $\frac{1}{2}$ $\frac{3}{4}$ 1
SCALE IN MILES

CHART NO. 39

MISSOURI
ATCHISON COUNTY



N



NEBRASKA
NEMAHIA COUNTY



Morgan Bend

525.3

526

BEND

Aspinwall
526.1

Aspinwall Bend
Lower
527.1

LEVEE

UNIT

L-550

UPPER

MORGAN

BEND

524

LOWER

523

MORGAN

BEND

Edwards
523.2

Morgan Bend Lower
522.6

MATCH LINE A
Beadow Creek

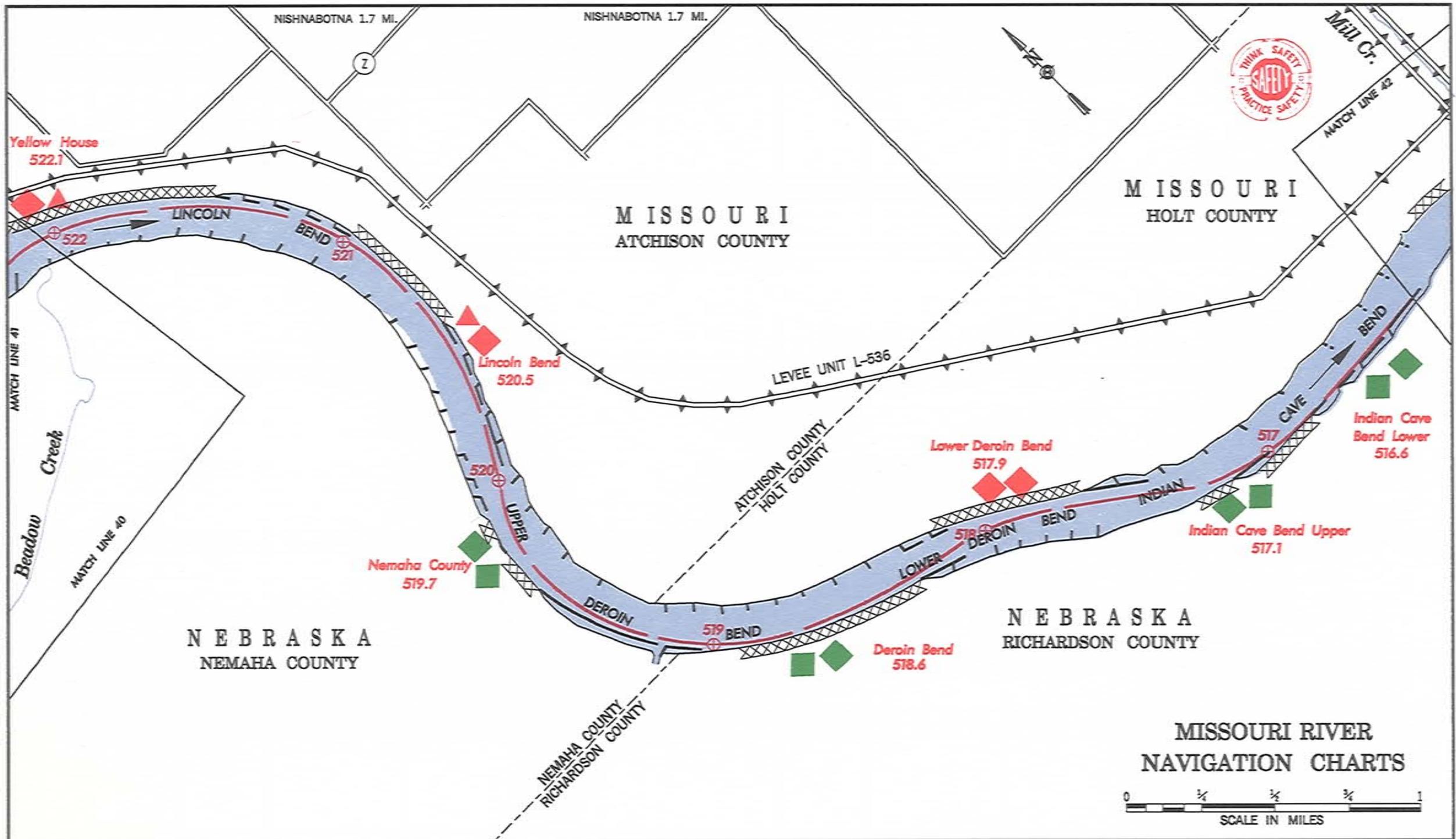
Creek

Rock

MISSOURI RIVER
NAVIGATION CHARTS

0 $\frac{1}{4}$ $\frac{1}{2}$ $\frac{3}{4}$ 1
SCALE IN MILES

CHART NO. 40



0 $\frac{1}{4}$ $\frac{1}{2}$ $\frac{3}{4}$ 1
SCALE IN MILES

CHART NO. 41



MISSOURI
HOLT COUNTY

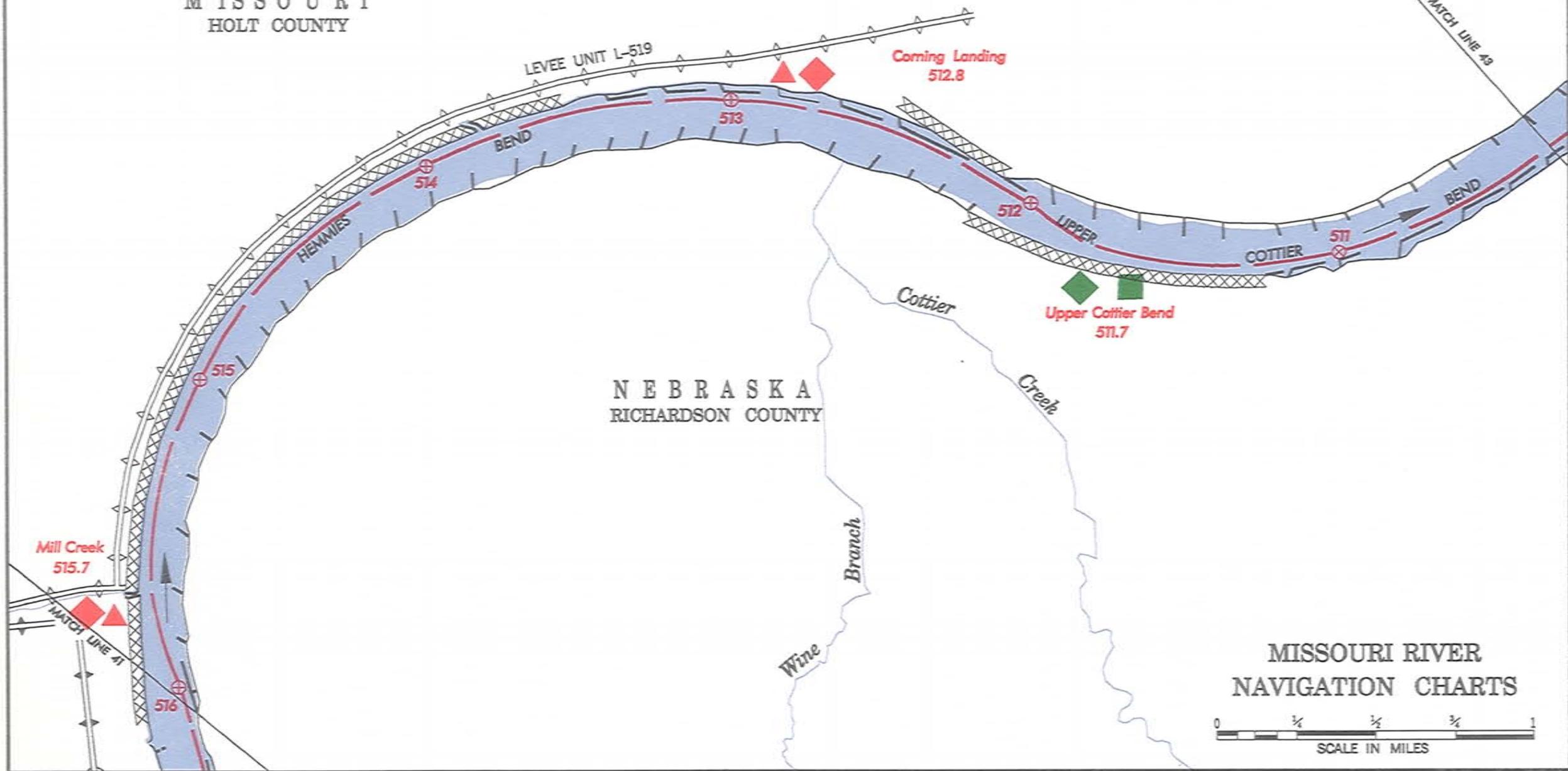


CHART NO. 42

CORNING 4.0 MI. CRAIG 3.3 MI.

MISSOURI
HOLT COUNTY



River

Tarkio

MATCH LINE 42

MATCH LINE 43

THURNAU
STATE WILDLIFE
AREA

Big Tarkio

507.7

Lower Cottier Bend
506.9

LOWER

COTTIER

507

BEND

BEND

509

510

UPPER

COTTIER

509

MATCH LINE 44

BEND

505

506

UPPER

ARAGO

Upper Arago

506.0

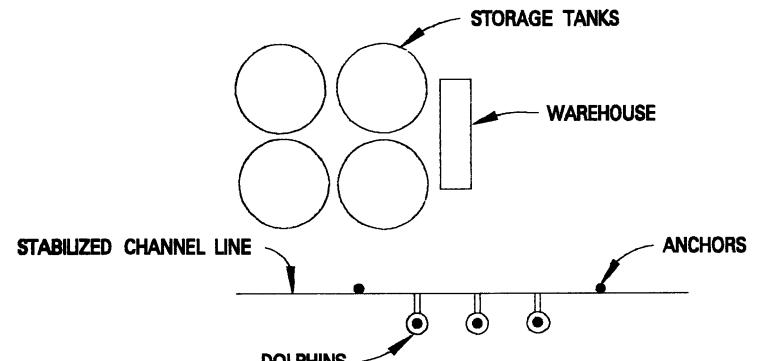
NEBRASKA
RICHARDSON COUNTY

(A) SMALL BOAT RAMP (STATE OF MISSOURI)
(THURNAU STATE WILDLIFE AREA)

MISSOURI RIVER NAVIGATION CHARTS

0 $\frac{1}{4}$ $\frac{1}{2}$ $\frac{3}{4}$ 1
SCALE IN MILES

CHART NO. 43

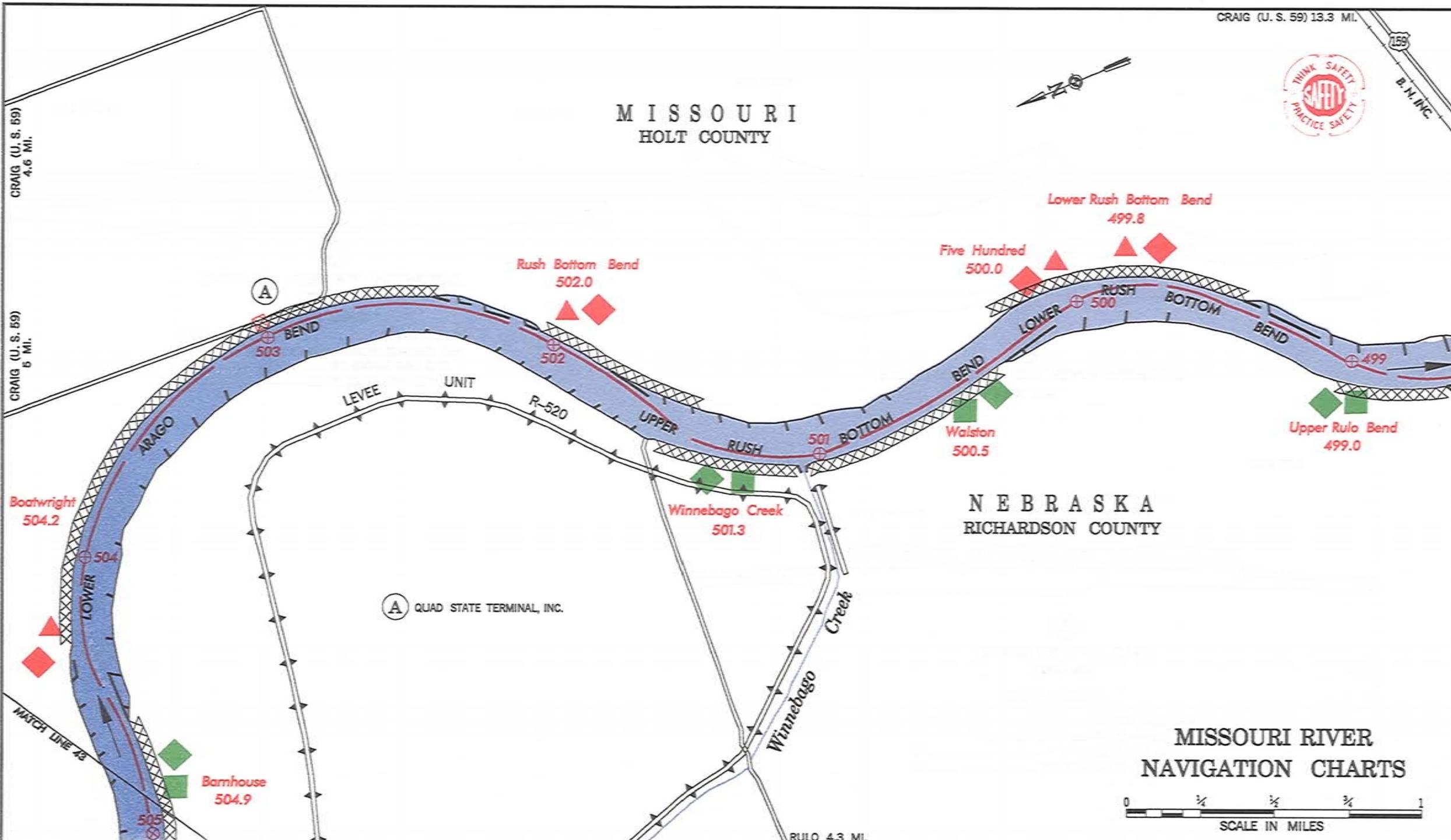


(A)
QUAD STATE TERMINAL, INC.
Mile 503.03

CRAIG (U.S. 59) 13.3 MI.



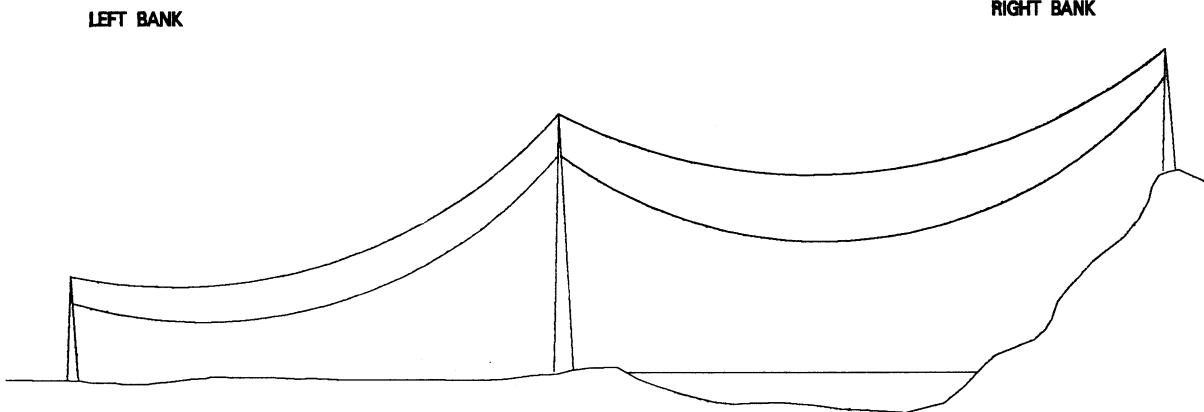
MISSOURI
HOLT COUNTY



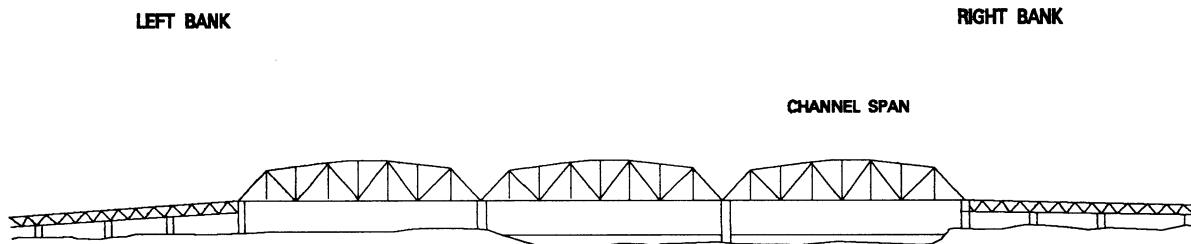
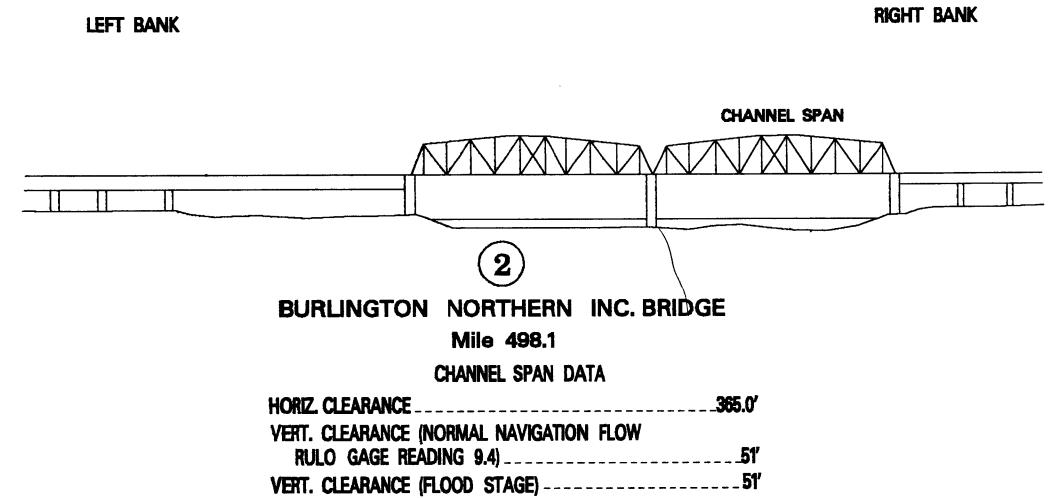
0 $\frac{1}{4}$ $\frac{1}{2}$ $\frac{3}{4}$ 1
SCALE IN MILES

MISSOURI RIVER
NAVIGATION CHARTS

CHART NO. 44



ST. JOSEPH POWER AND LIGHT POWER LINE
Mile 498.5



RULO HWY. 159 BRIDGE
Mile 498.1

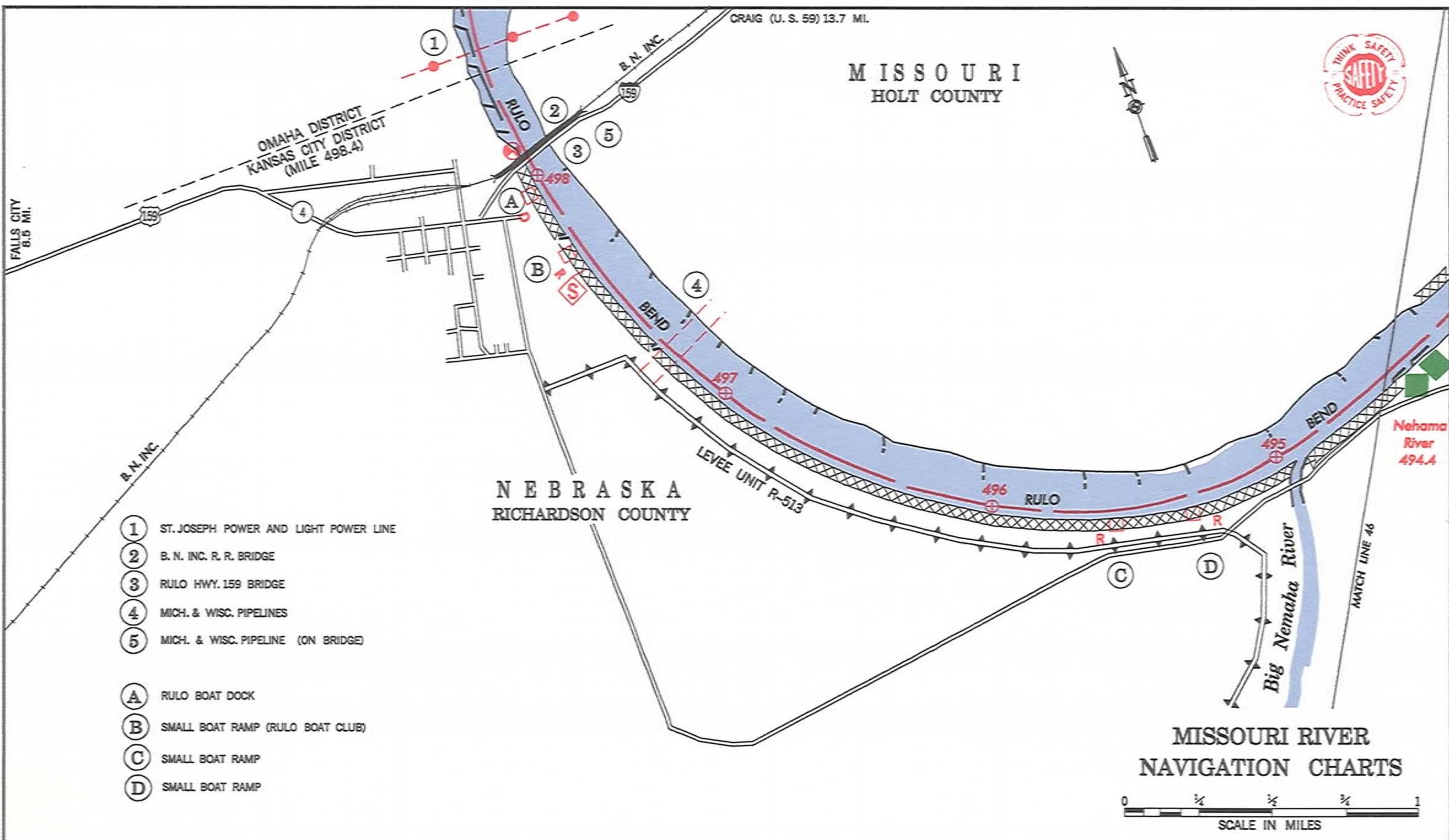
CHANNEL SPAN DATA

| | |
|---|--------|
| HORIZ. CLEARANCE ----- | 366.0' |
| VERT. CLEARANCE (NORMAL NAVIGATION FLOW RULO GAGE READING 9.4) ----- | 62' |
| VERT. CLEARANCE (FLOOD STAGE) ----- | 54' |



MISSOURI
HOLT COUNTY

CRAIG (U. S. 59) 13.7 MI.





MISSOURI
HOLT COUNTY

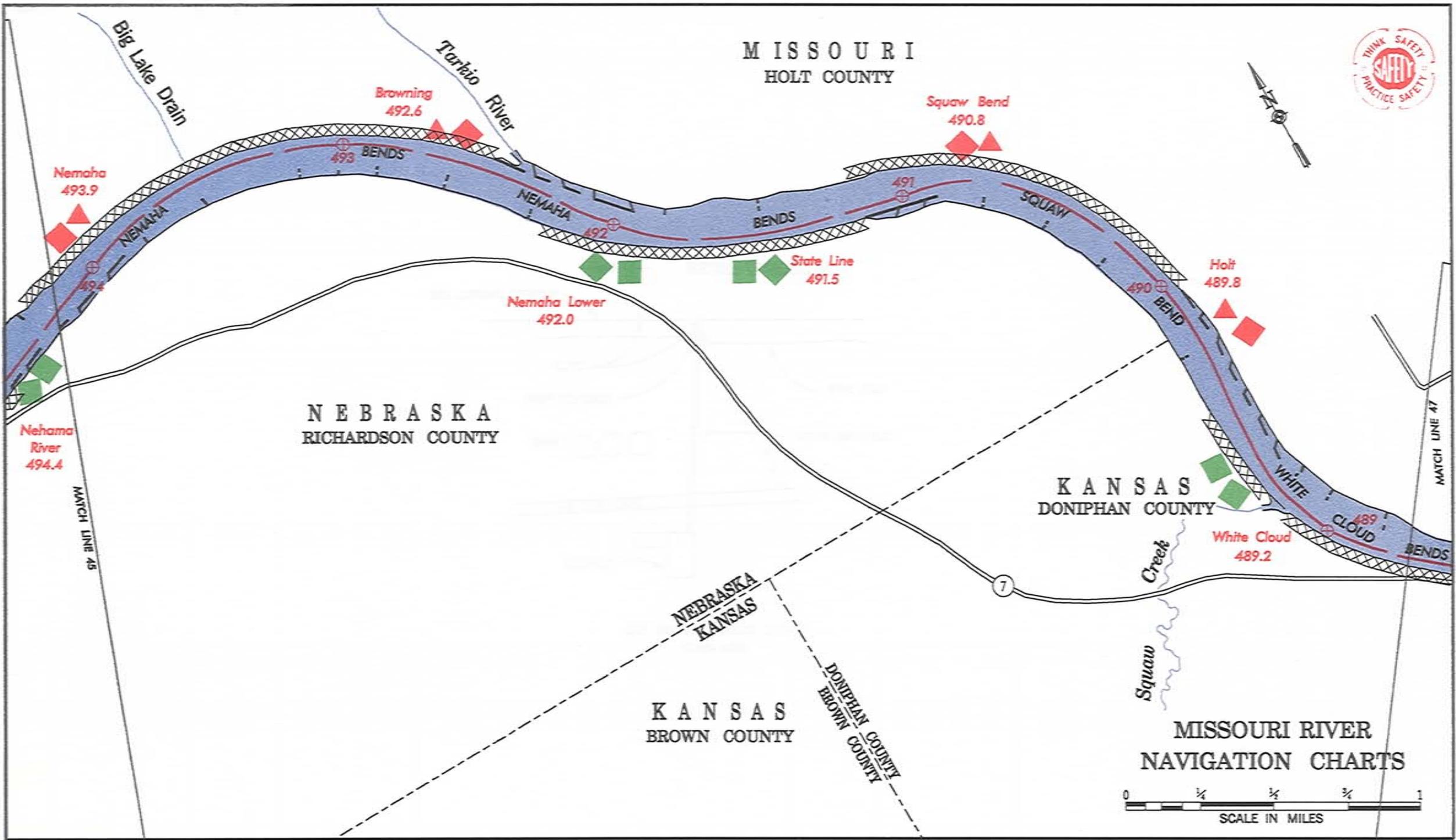
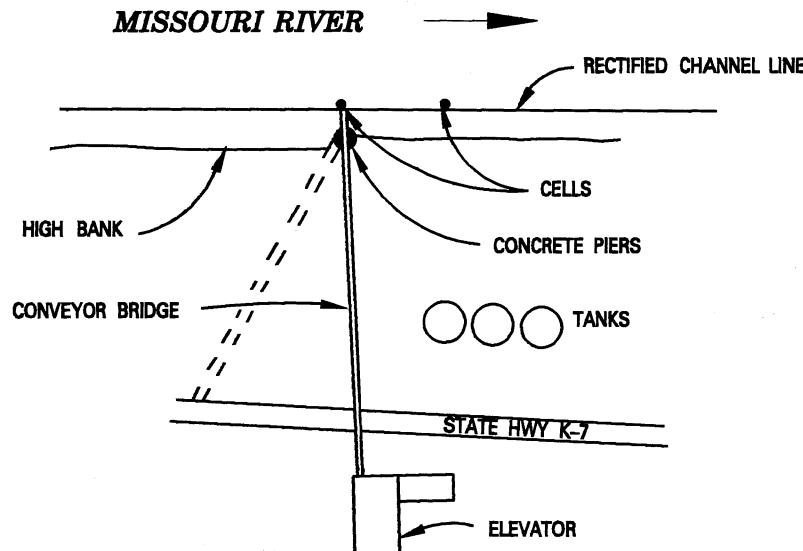


CHART NO. 46



(A)

WHITE CLOUD GRAIN CO.
Mile 488.0

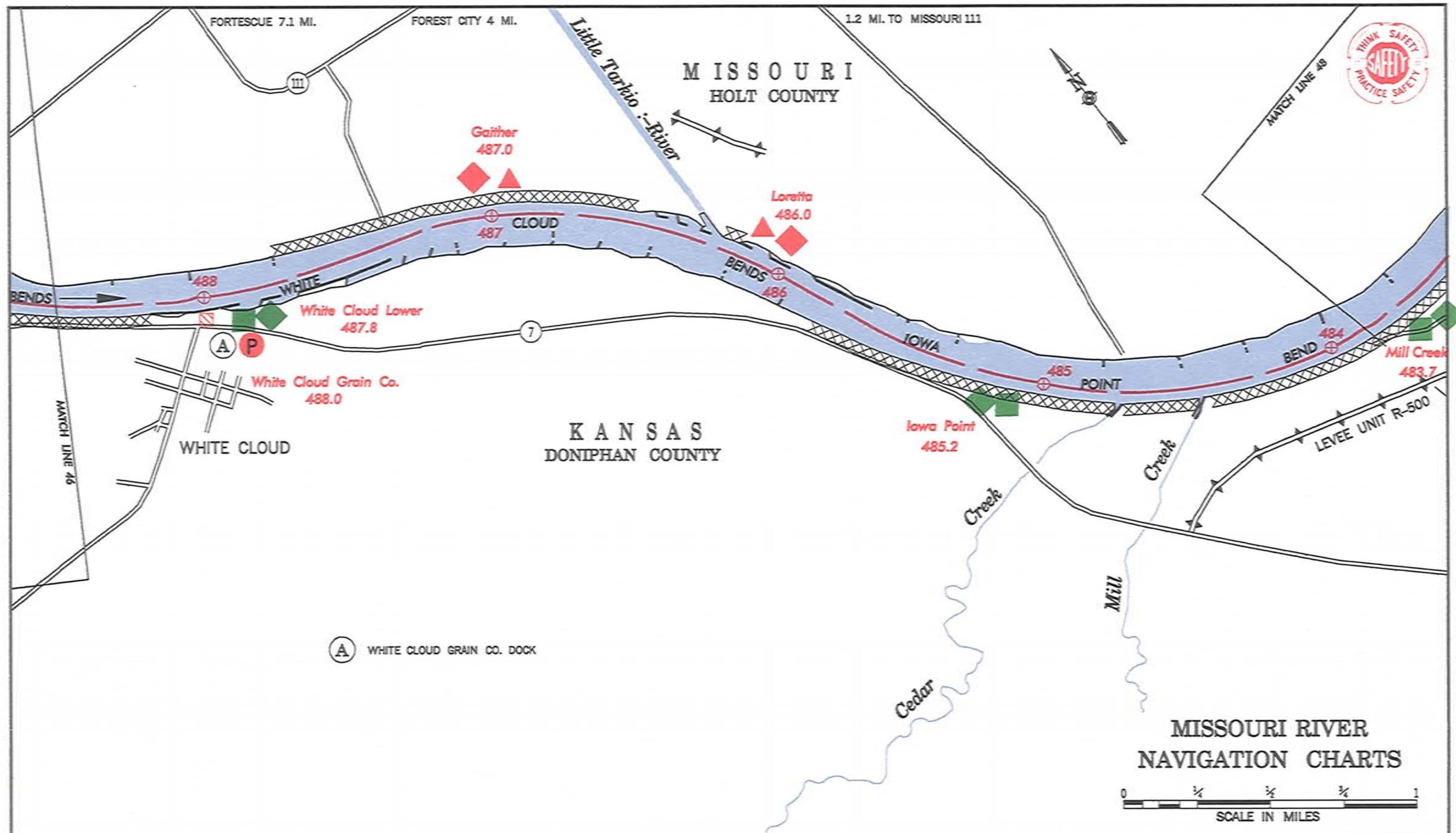


CHART NO. 47

MISSOURI
HOLT COUNTY

FOREST CITY 1.6 MI.

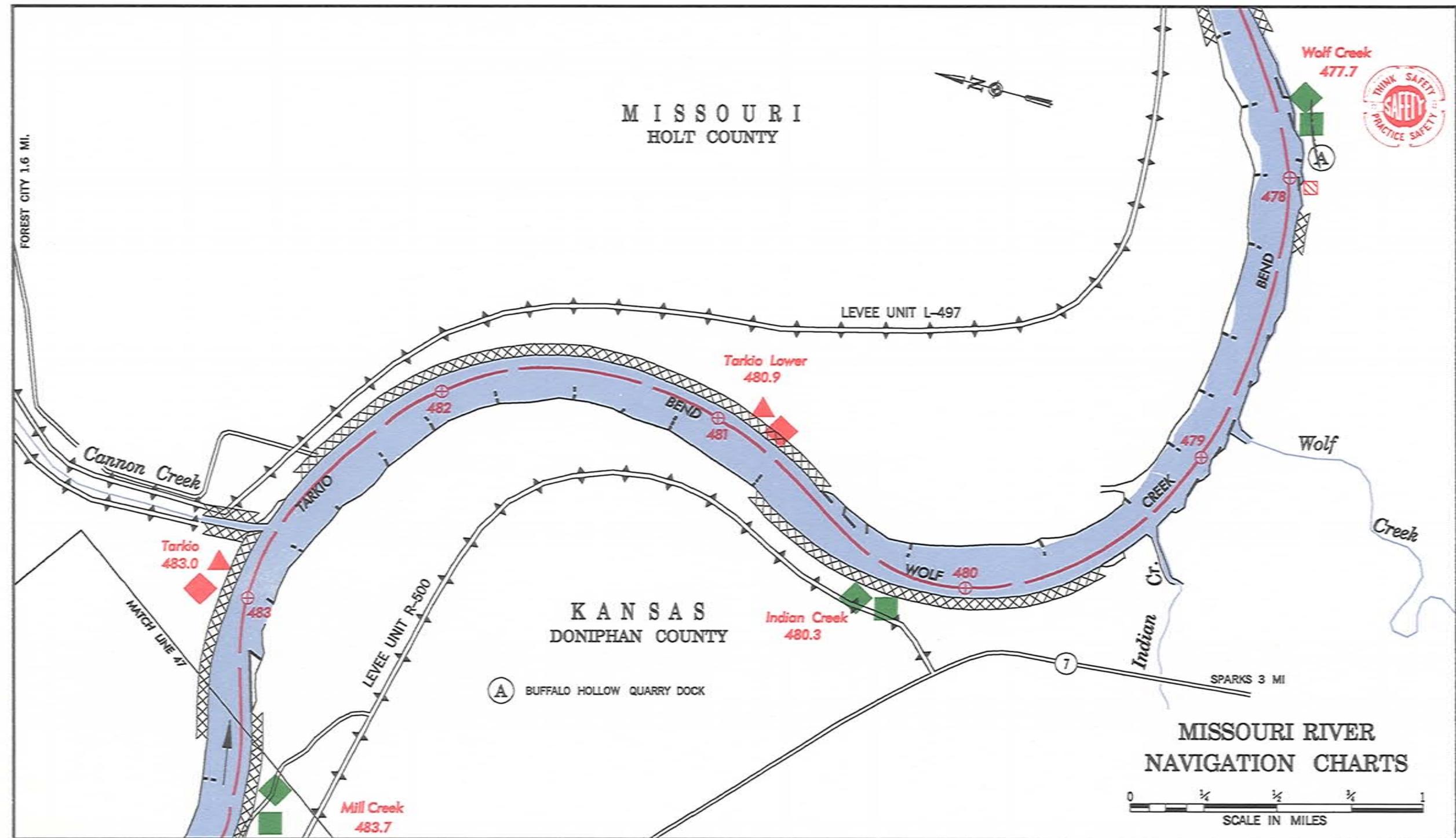


CHART NO. 48

MISSOURI
HOLT COUNTY

FORBES 4 MI.

Mill Creek

LEVEE UNIT L-497

44

Forbes Lower
6769

FORBES

6

KANSAS

DONIPHAN COUNTY

- A PAYNES LANDING ACCESS
 - B MOUNT VERNON QUARRY DOCK
 - C WOLF CREEK QUARRY DOCK

MISSOURI RIVER
NAVIGATION CHARTS

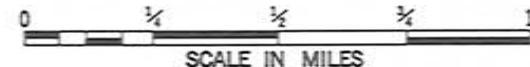


CHART NO. 49

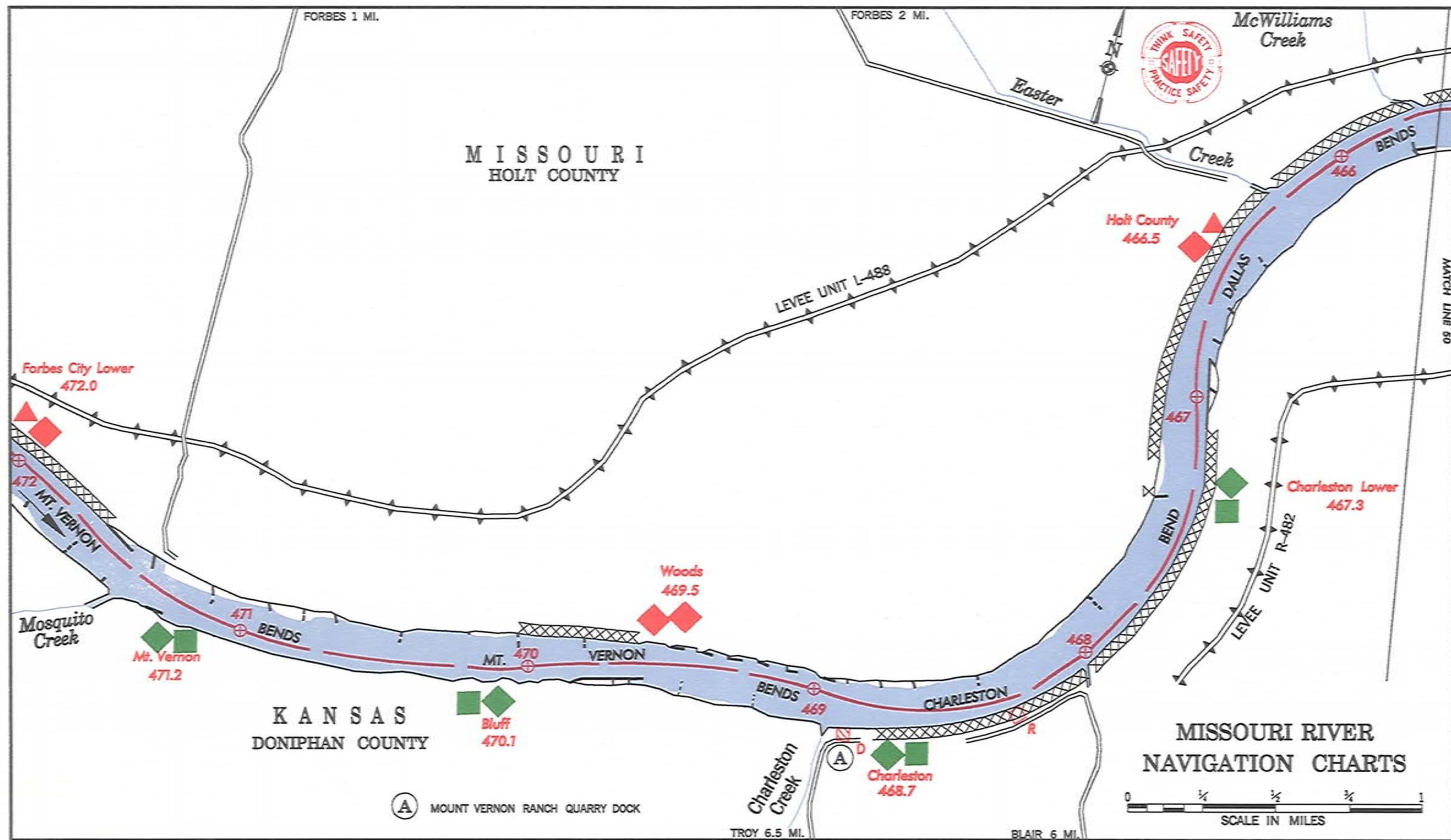


CHART NO. 50

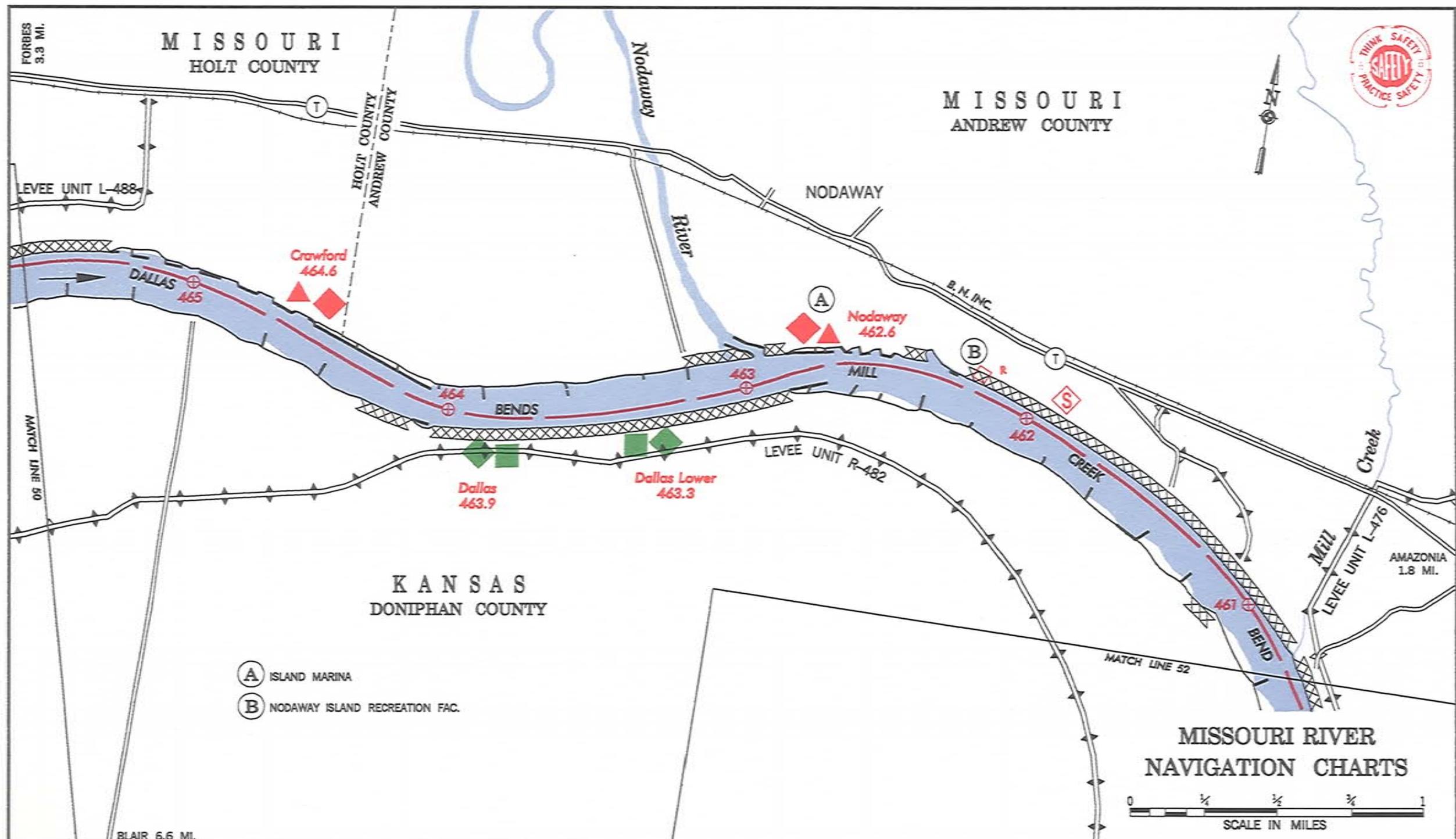


CHART NO. 51

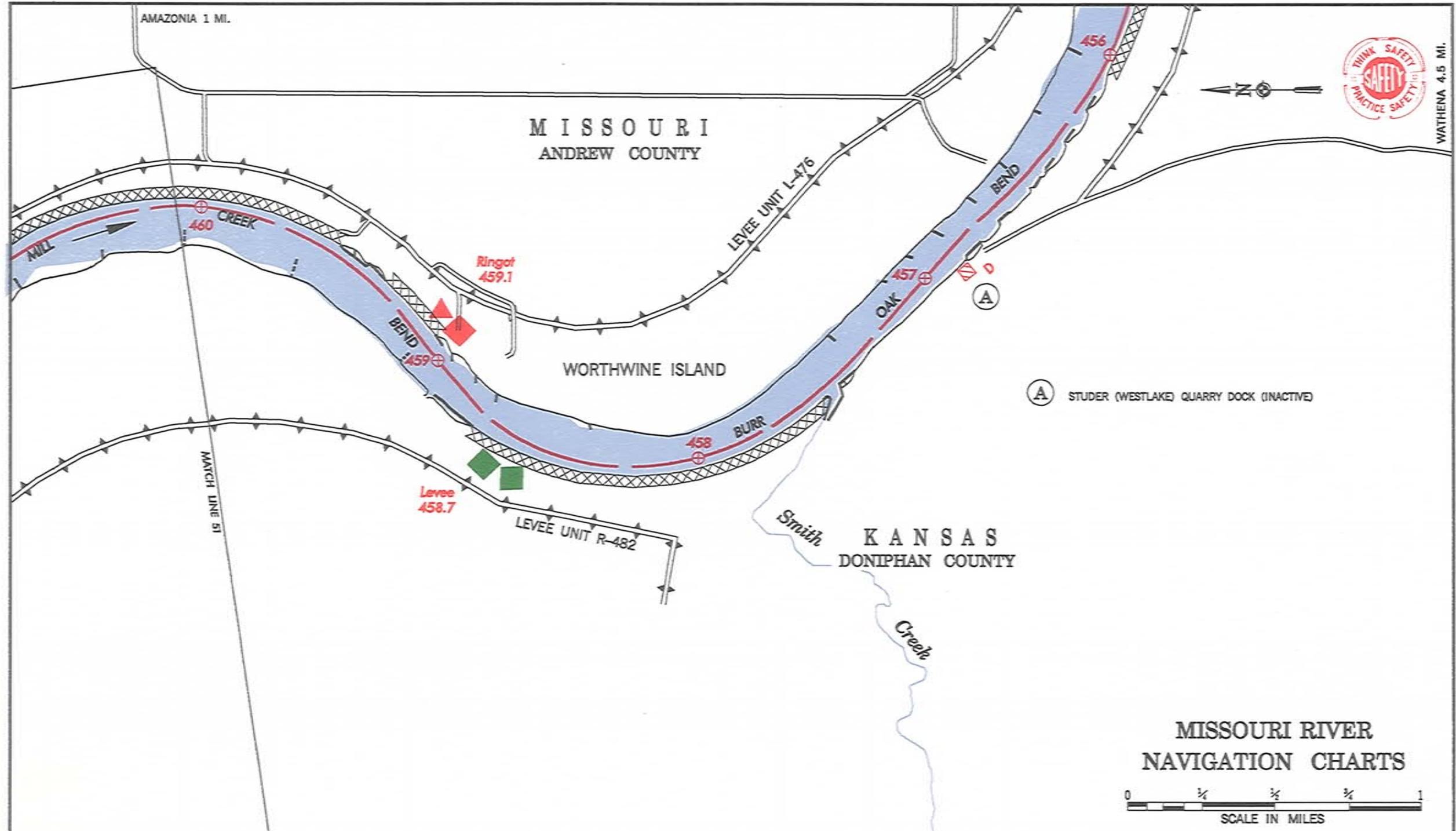


CHART NO. 52

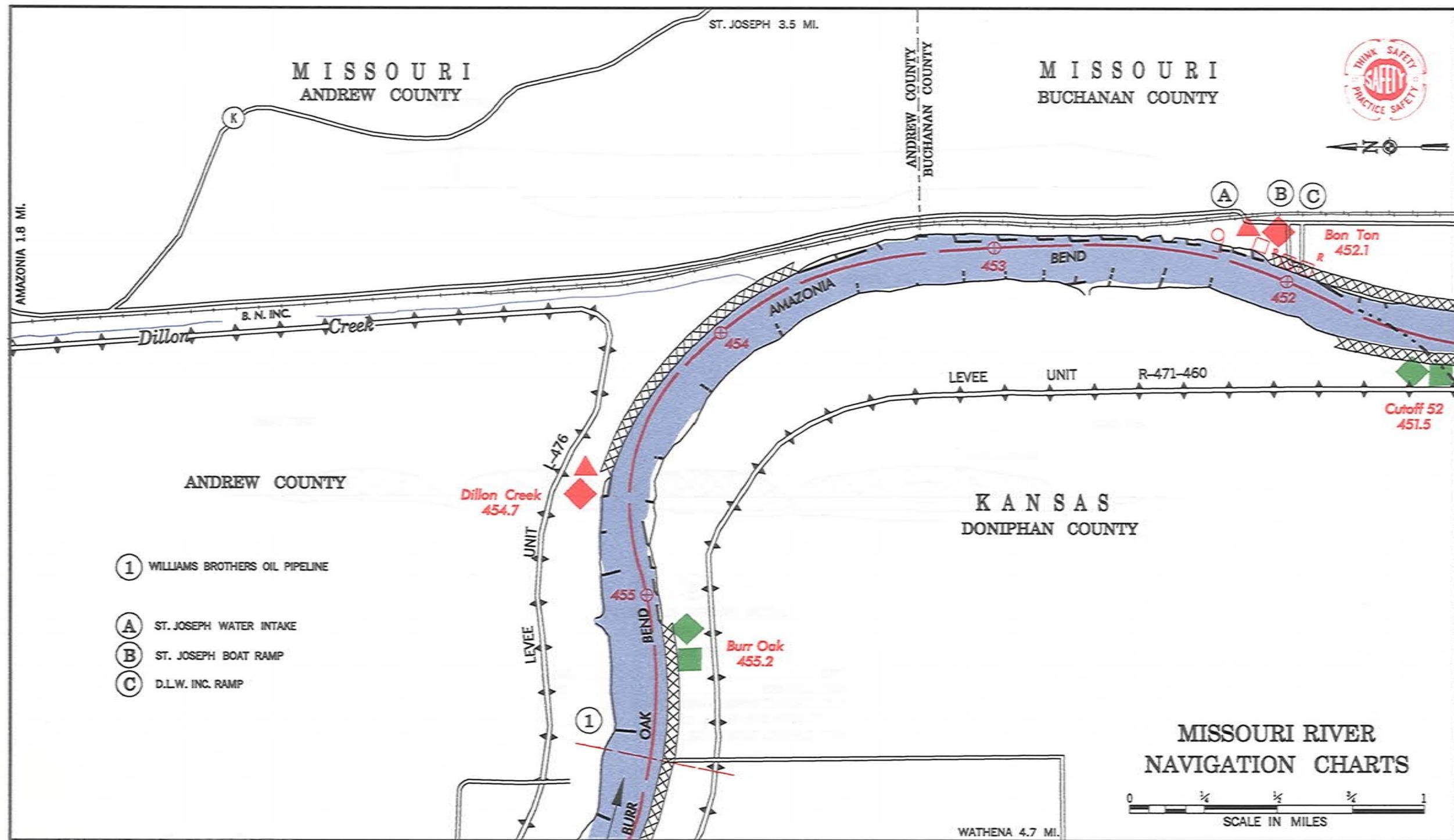
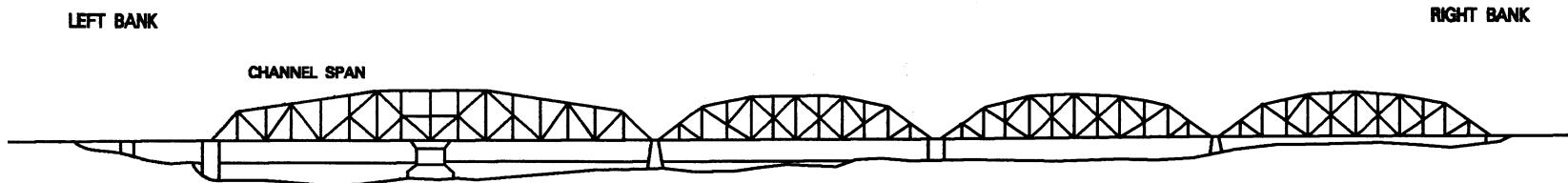


CHART NO. 53



2

ST. JOSEPH POWER AND LIGHT POWER LINE
Mile 450.3



3

UNION PACIFIC R. R. BRIDGE
Mile 448.2
CHANNEL SPAN DATA

| | |
|--|--------|
| TYPE | SWING |
| HORIZ. CLEARANCE | 200.0' |
| VERT. CLEARANCE (NORMAL NAVIGATION FLOW) | |
| ST. JOSEPH GAGE READING 0.0] | 21' |
| VERT. CLEARANCE (FLOOD STAGE) | 14' |

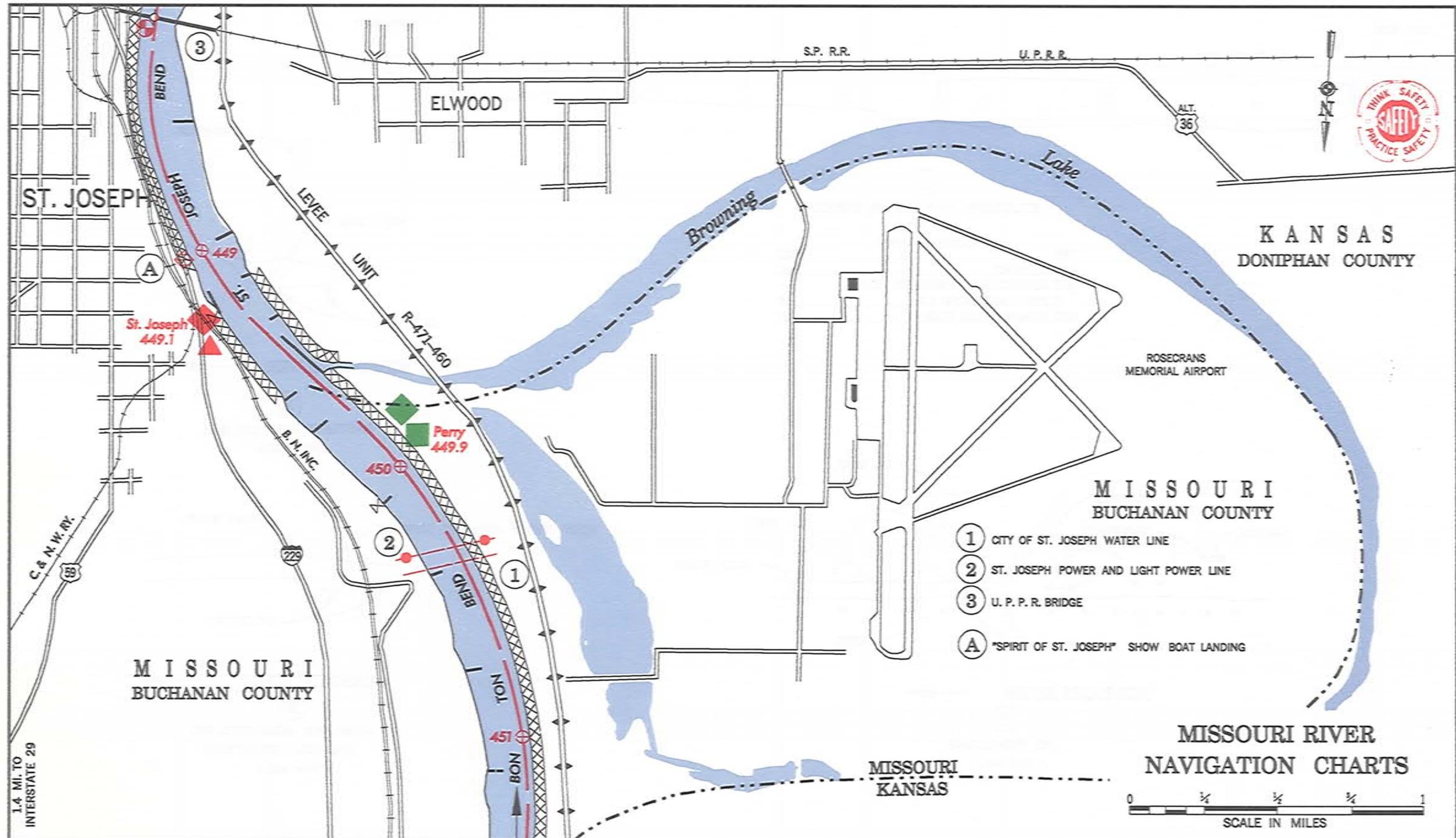
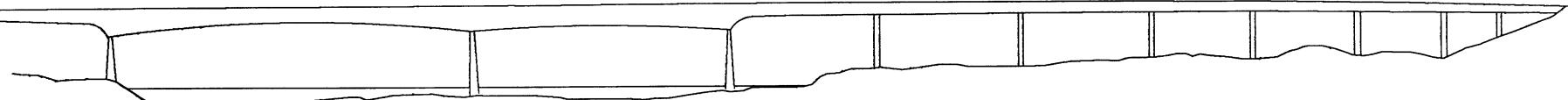


CHART NO. 54

LEFT BANK

CHANNEL SPAN



①

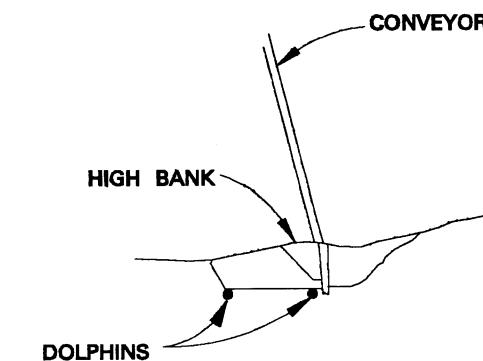
ST.JOSEPH HWY. US 36 BRIDGE

Mile 447.9

CHANNEL SPAN DATA

| | |
|--|--------|
| TYPE | FIXED |
| HORIZ. CLEARANCE | 360.0' |
| VERT. CLEARANCE (NORMAL NAVIGATION FLOW) | |
| ST.JOSEPH GAGE READING 10.0) | .6' |
| VERT. CLEARANCE (FLOOD STAGE) | .54' |

RIGHT BANK

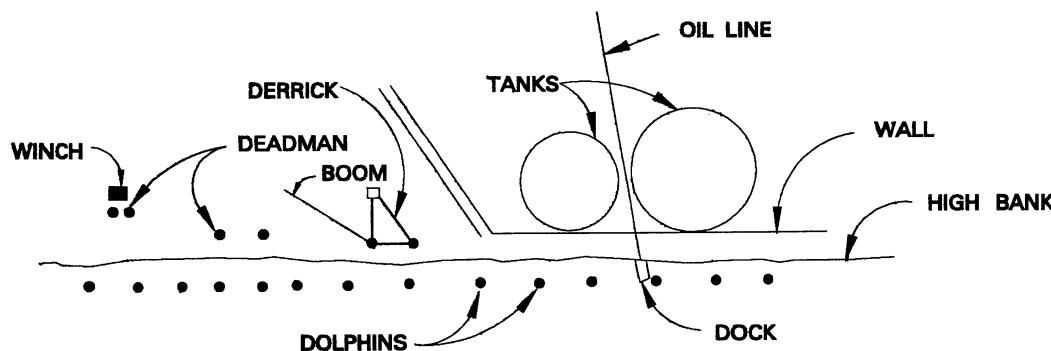


MISSOURI RIVER

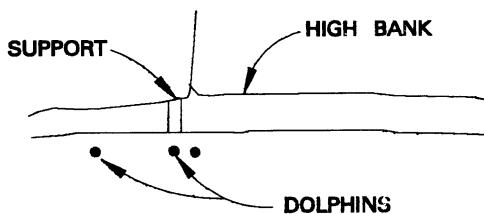
②

BARTLETT AND CO., INC.

Mile 446.6



FOOT BRIDGE AND PIPE SUPPORT



MISSOURI RIVER

③

AG PROCESSING

Mile 446.1

MISSOURI RIVER

④

FARMLAND INDUSTRIES, INC.

CHEMICAL OPERATIONS

Mile 445.4



- 1 ST. JOSEPH HWY. US 36 BRIDGE
 - 2 WILLIAMS NATURAL GAS PIPELINE (ON BRIDGE)
 - A HOLIDAY SAND AND GRAVEL CO. DOCK
 - B BARTLETT AND CO., INC. DOCK
 - C AG PROCESSING DOCK
 - D ST. JOSEPH POWER & LIGHT CO. INTAKE
 - E FARMLAND INDUSTRIES, INC. DOCK
 - F FLATHEAD FISHING CLUB
 - G SMALL BOAT RAMP AND DOCK (ST. JOSEPH OU

ATCHISON 18 MI.

KIRSCHNER

MISSOURI
BUCHANAN COUNTY

MISSOURI RIVER
NAVIGATION CHARTS

FLWOOD

1.4 MI. TO
INTERSTATE 29

ST. JOSEPH

WHITE HEAD

Creek

LEVER
JOSEPH
D 447

Bartlett Dock

**St. Joseph P & L Dock
445.9**

KANSAS
DONIPHAN COUNTY

MATCH LINE 5

A horizontal scale bar divided into four equal segments. The first segment is shaded dark gray, while the other three are light gray. Numerical labels $\frac{1}{4}$, $\frac{1}{2}$, and $\frac{3}{4}$ are placed above the second, third, and fourth segments respectively. The word "SCALE" is centered below the bar, followed by "IN MILES".

SCALE IN MILES

CHART NO. 55

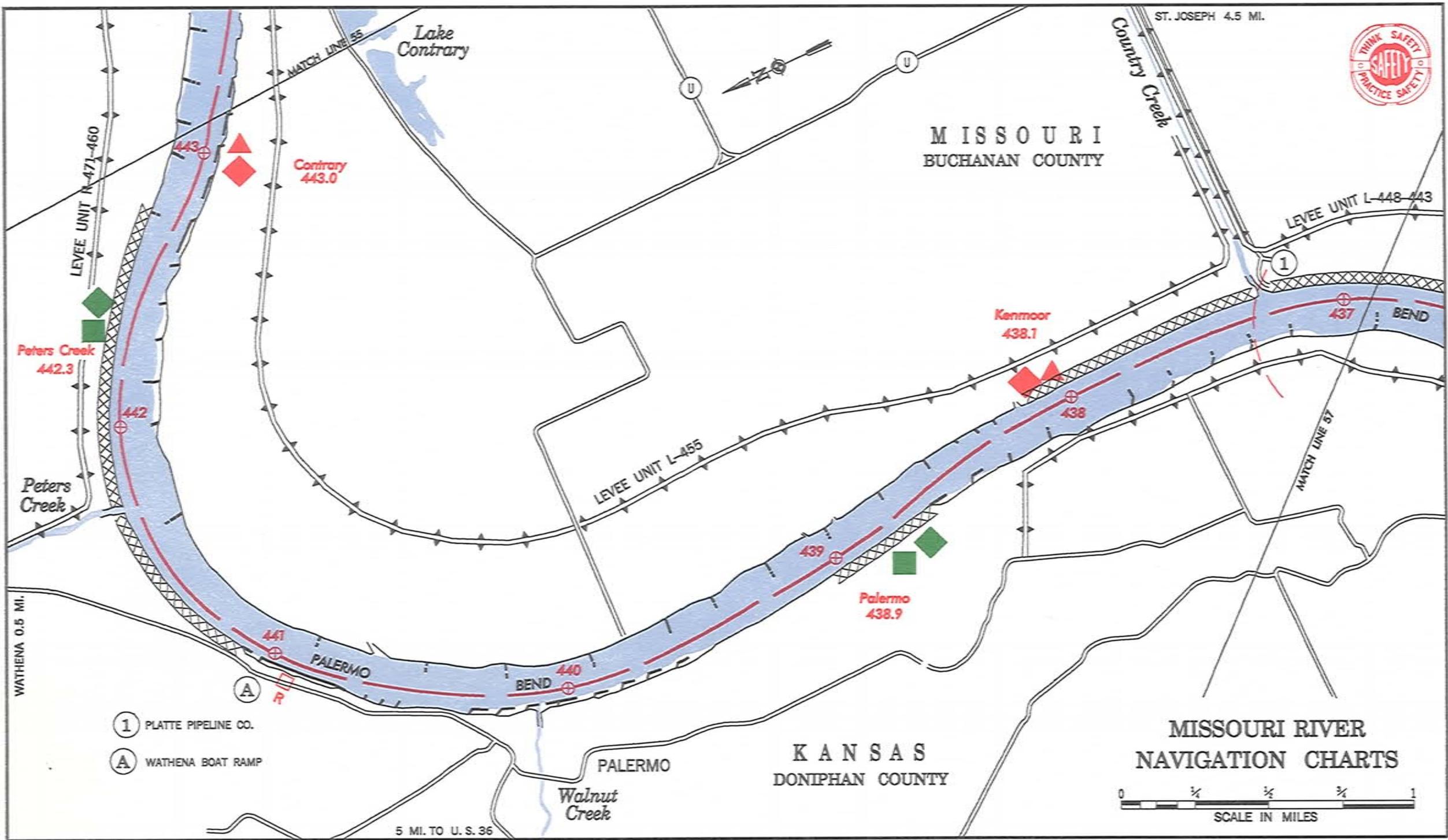


CHART NO. 56

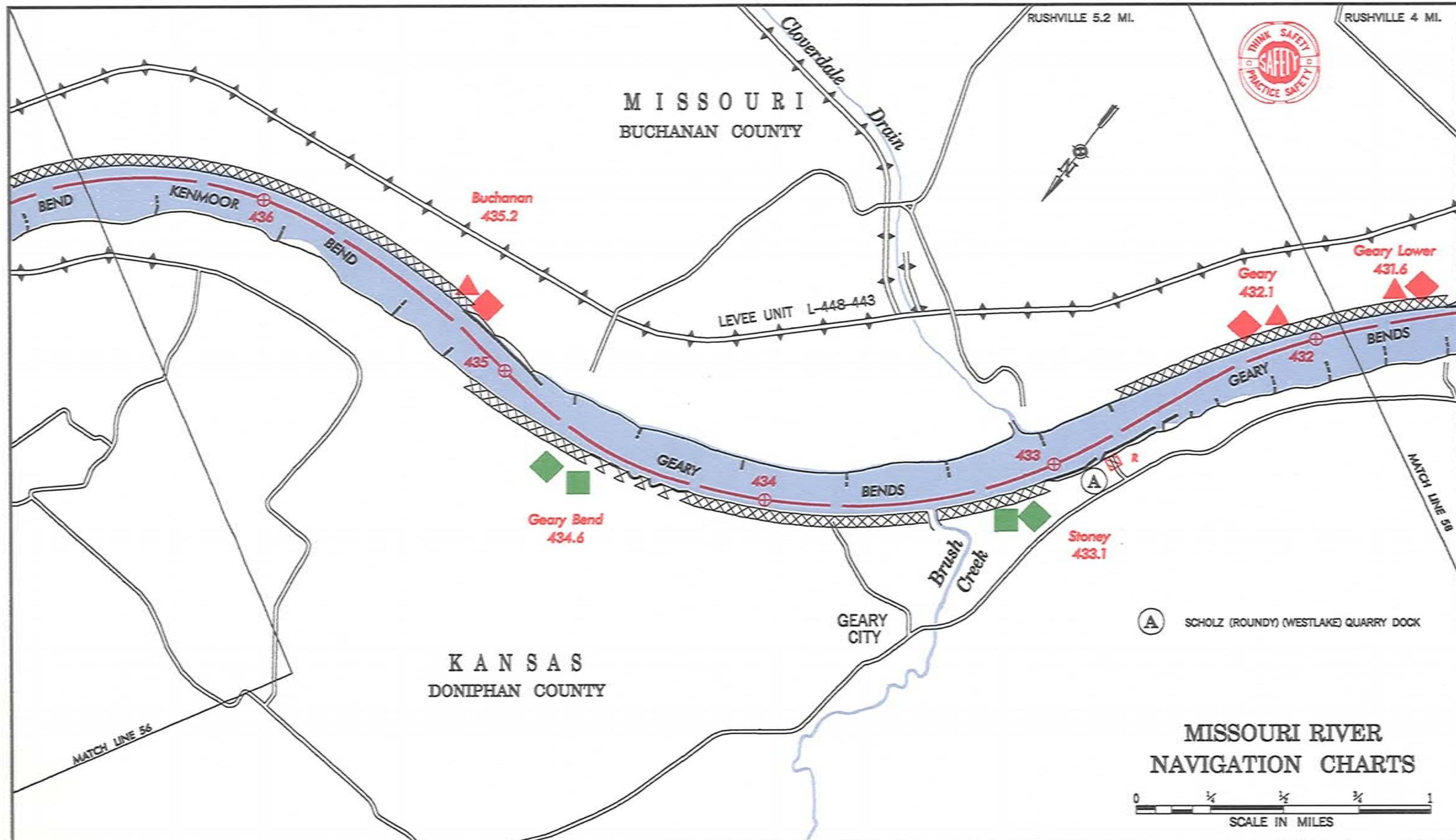


CHART NO. 57

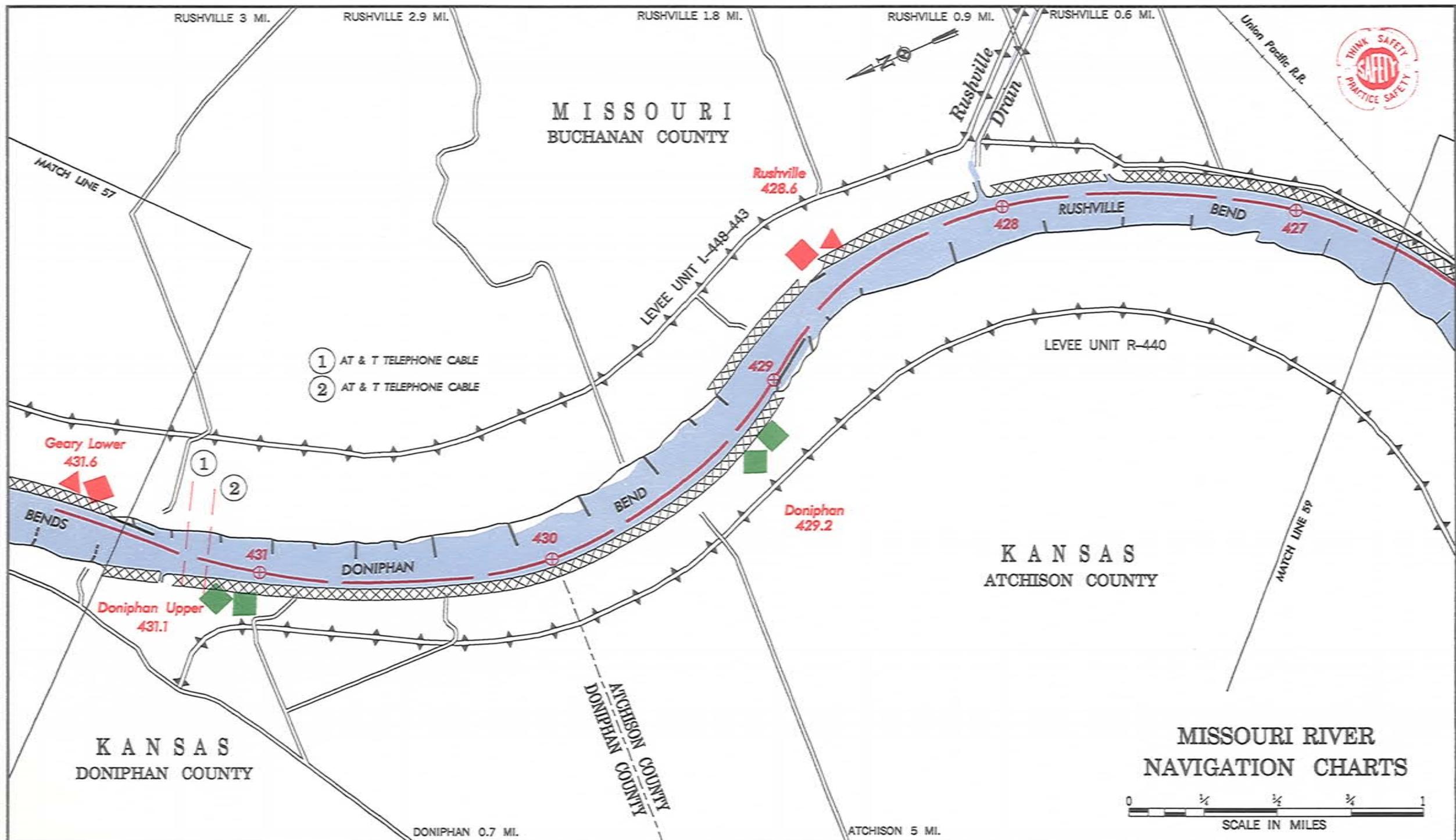
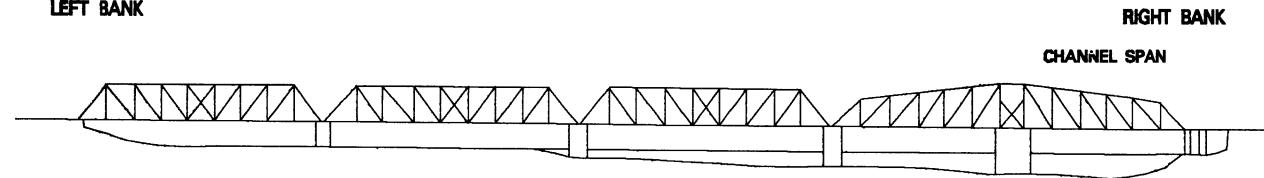


CHART NO. 58

LEFT BANK



①

ATCHISON RWY. BRIDGE

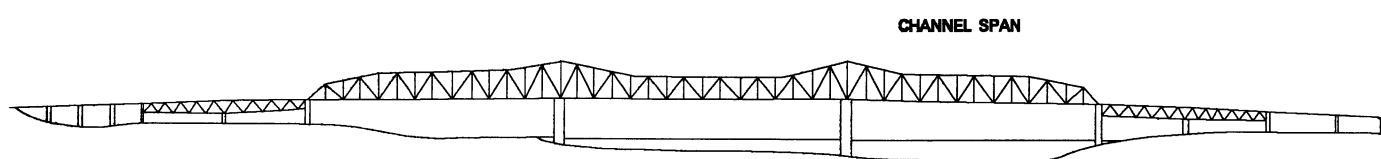
Mile 422.6

CHANNEL SPAN DATA

| | |
|--|--------|
| TYPE | SWING |
| HORIZ. CLEARANCE | 160.0' |
| VERT. CLEARANCE (NORMAL NAVIGATION FLOW) | |
| ATCHISON GAGE READING 13.0) | 19' |
| VERT. CLEARANCE (FLOOD STAGE) | 10' |

LEFT BANK

RIGHT BANK



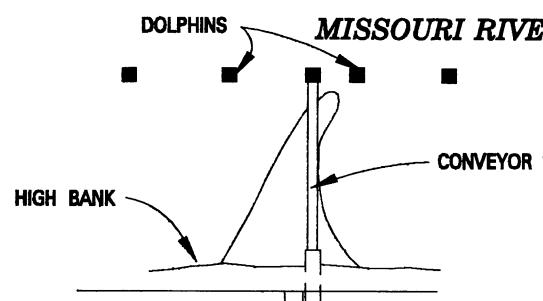
②

ATCHISON HWY. US 59 BRIDGE

Mile 422.5

CHANNEL SPAN DATA

| | |
|--|--------|
| TYPE | FIXED |
| HORIZ. CLEARANCE | 404.0' |
| VERT. CLEARANCE (NORMAL NAVIGATION FLOW) | |
| ATCHISON GAGE READING 13.0) | 59' |
| VERT. CLEARANCE (FLOOD STAGE) | 50' |

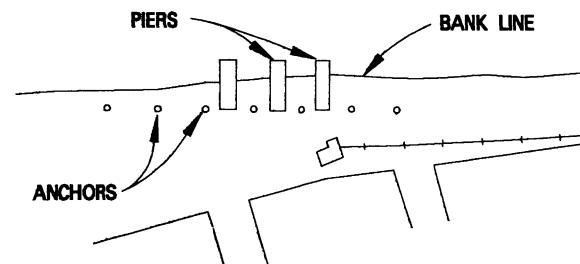


③

ELDERS GRAIN CO. DOCK

Mile 423.1

MISSOURI RIVER

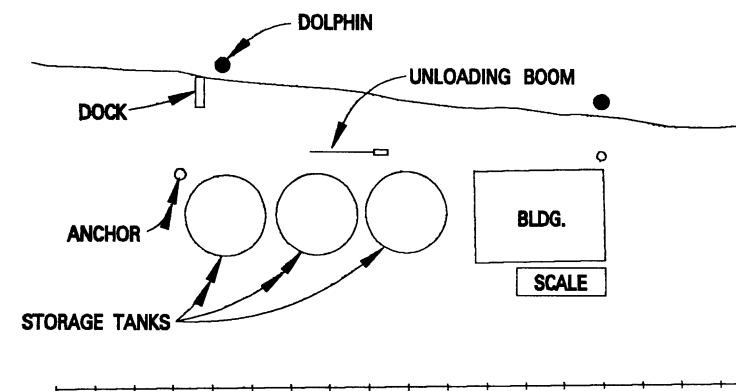


④

ATCHISON MUNICIPAL DOCK

Mile 423.0

MISSOURI RIVER

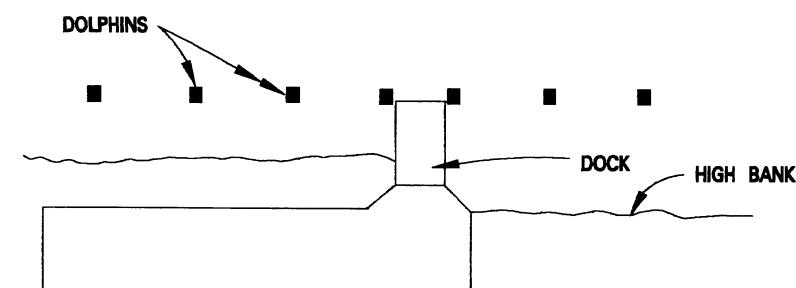


⑤

MACZUK INDUSTRIES, INC. DOCK

Mile 423.2

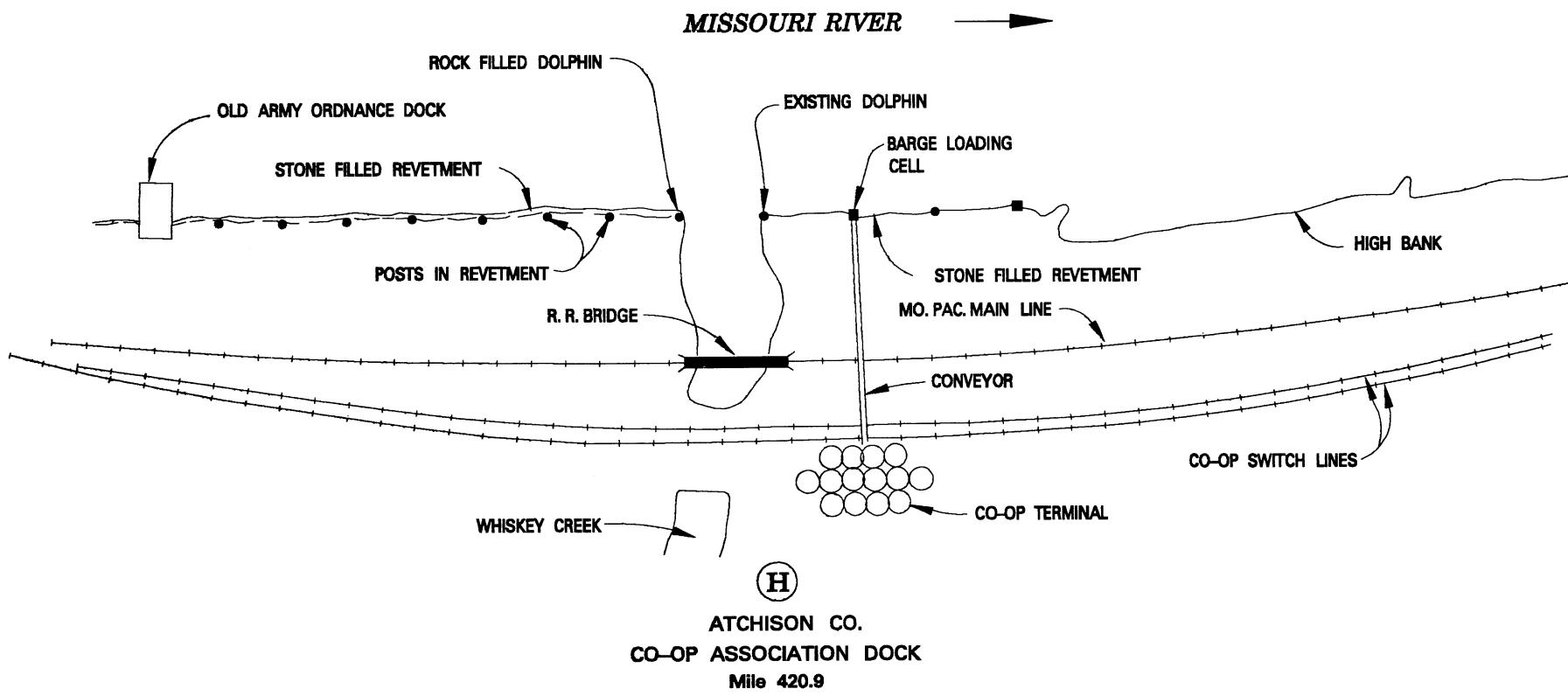
MISSOURI RIVER



⑥

ATCHISON DOCK

Mile 421.1



MISSOURI RIVER
NAVIGATION CHARTS

A horizontal scale bar with tick marks at 0, $\frac{1}{4}$, $\frac{1}{2}$, $\frac{3}{4}$, and 1. The text "SCALE IN MILES" is centered below the bar.



MISSOURI
BUCHANAN COUNTY

MISSOURI RIVER NAVIGATION CHARTS

MISSOURI BUCHANAN COUNTY

KANSAS ATCHISON COUNTY

ARMOUR 2 MI.

UNION PACIFIC P.R.

MUD LAKE 425.4

BEND

426

425

424

423

422

421

420.7

Creek

Atchison co. Farmer Coop

Atchison Intake 422.5

Atchison Bend 422.1

White Creek

Clay

INDEPENDENCE PARK REC. AREA

Independence Creek 423.7

Atchison Water Intake 423.3

Grain Barge Loading 423.1

423

424

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KANSAS
ATCHISON COUNTY

CHART NO. 59

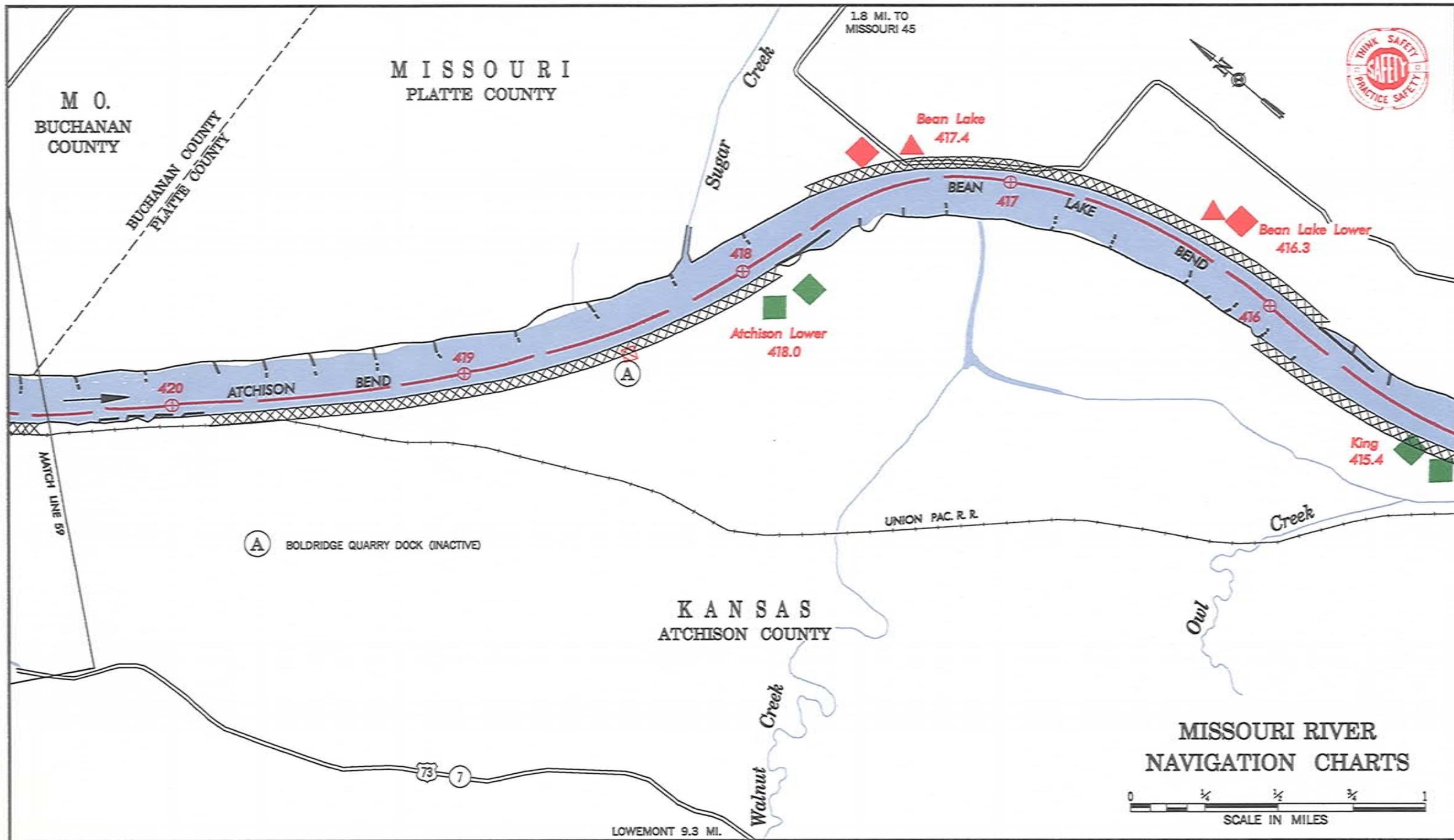


CHART NO. 60

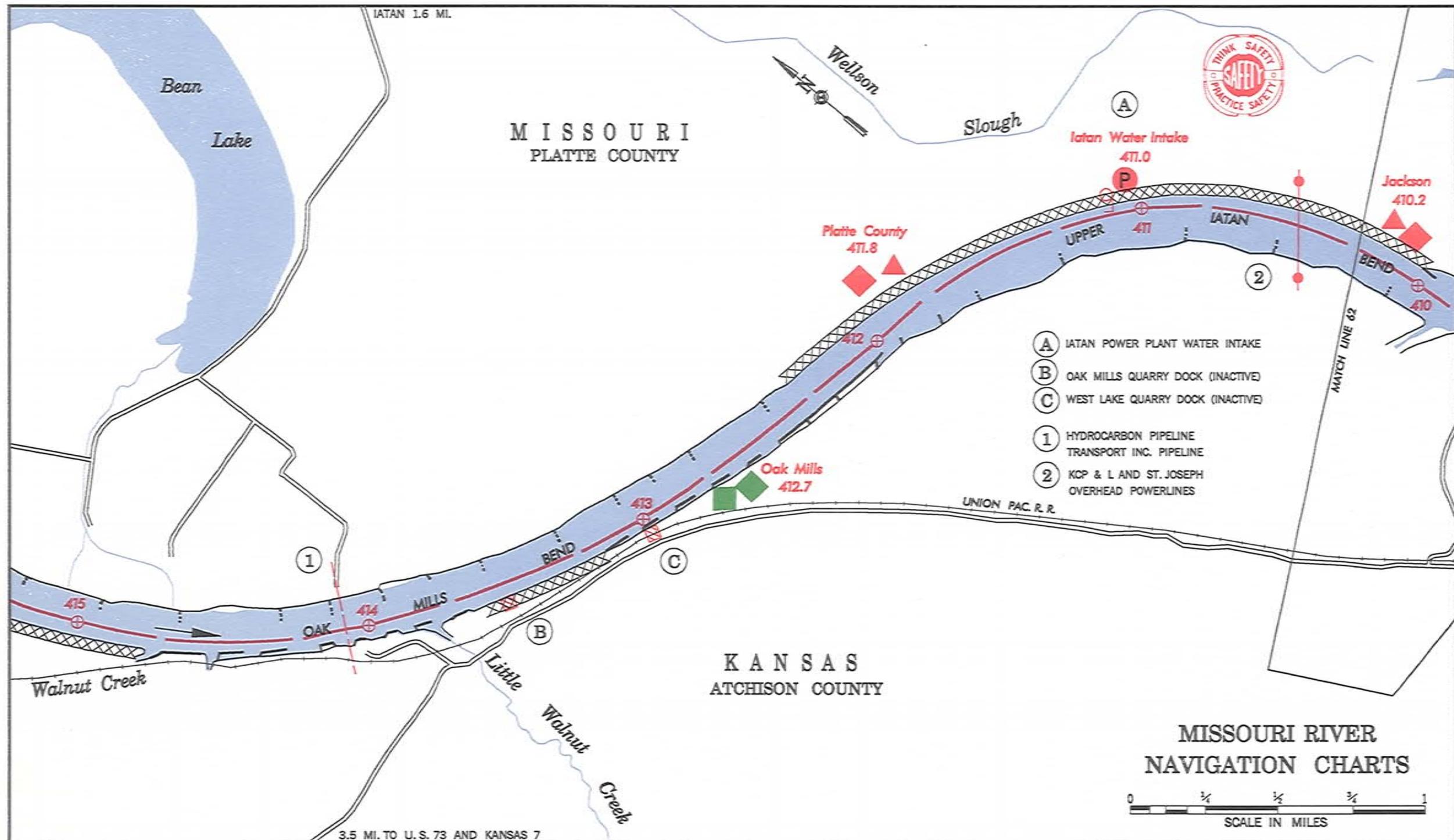
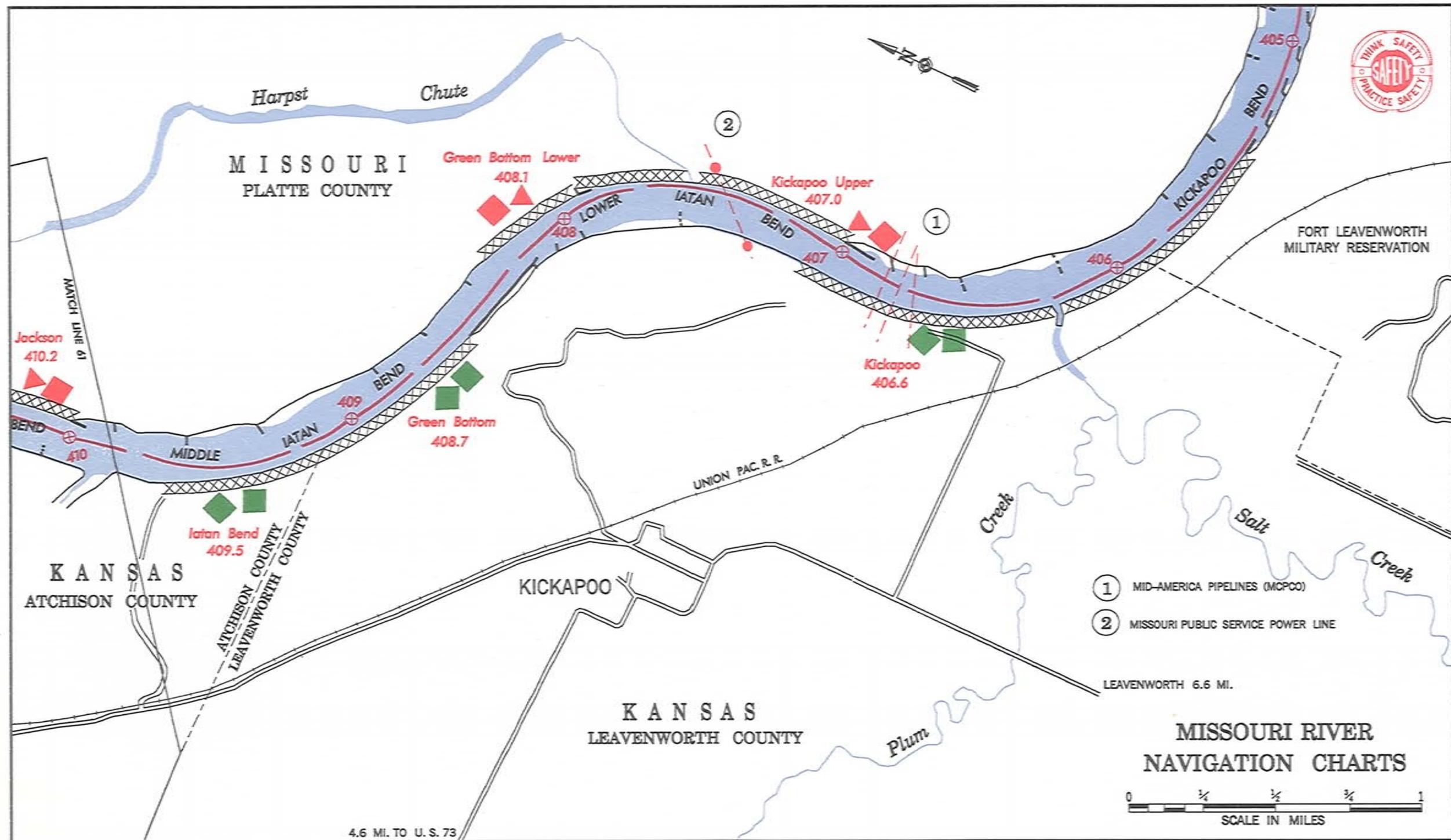
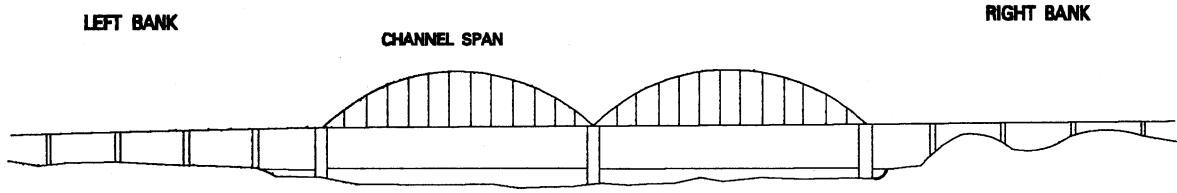


CHART NO. 61



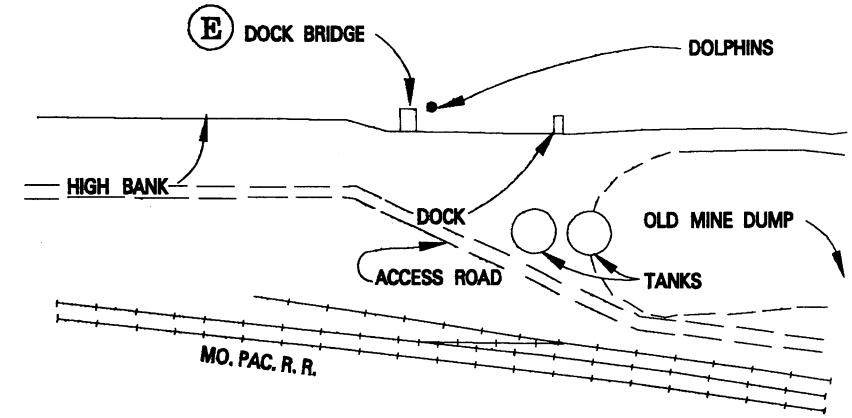


LEAVENWORTH HWY. 92 BRIDGE
Mile 397.6

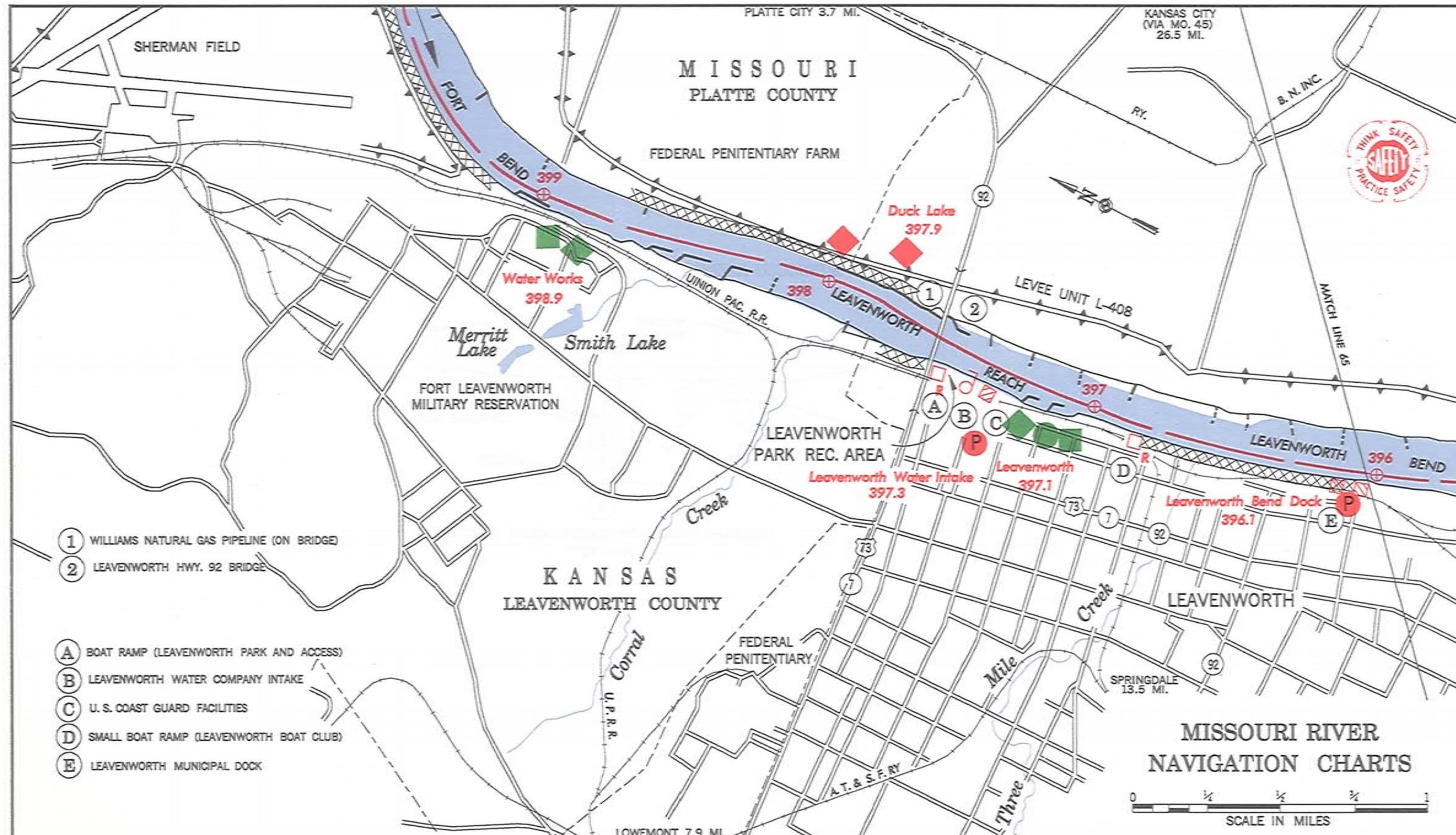
CHANNEL SPAN DATA

| | |
|--|--------|
| TYPE | FIXED |
| HORZ. CLEARANCE | 400.0' |
| VERT. CLEARANCE (NORMAL NAVIGATION FLOW) | |
| LEAVENWORTH GAGE READING 9.1 | 62' |
| VERT. CLEARANCE (FLOOD STAGE) | 52' |

MISSOURI RIVER 



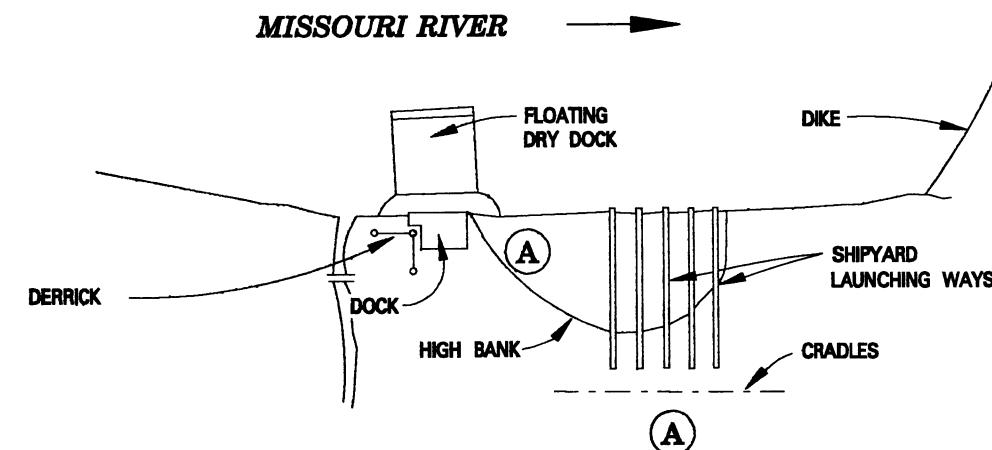
(E) LEAVENWORTH MUNICIPAL DOCK
Mile 396.1



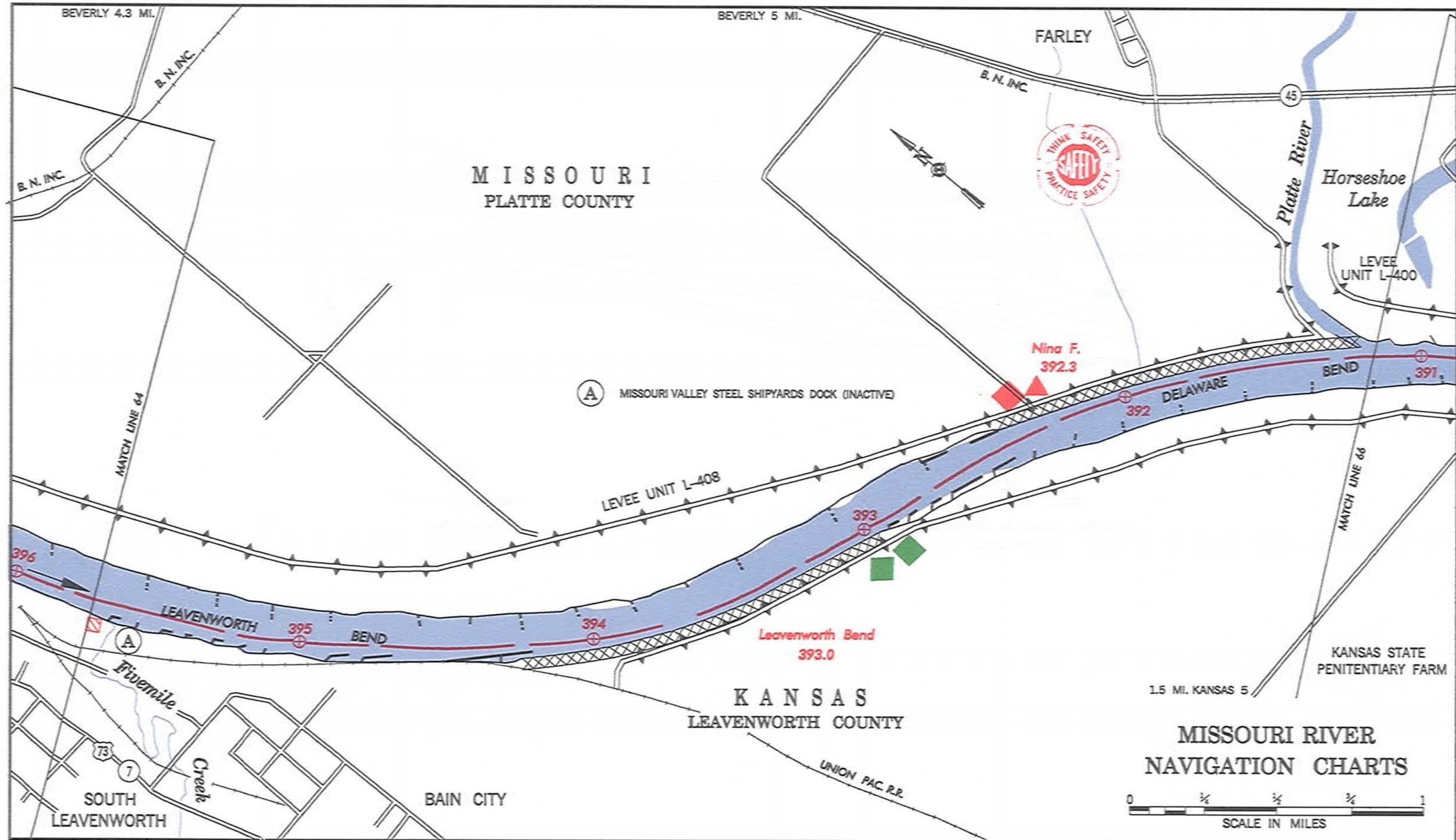
MISSOURI RIVER NAVIGATION CHARTS

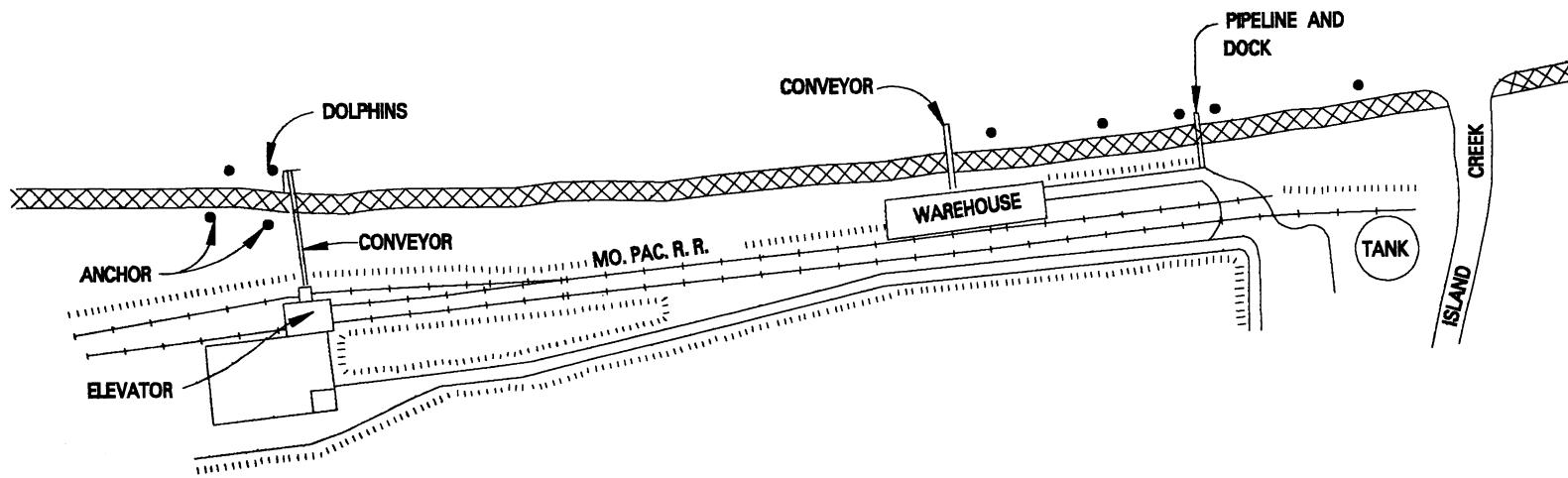
0 $\frac{1}{4}$ $\frac{1}{2}$ $\frac{3}{4}$ 1
SCALE IN MILES

CHART NO. 64



MISSOURI VALLEY SHIPYARDS DOCKS (INACTIVE)
Mile 395.7





(A)
SMOOT GRAIN CO. DOCK
(SALINA TERMINAL ELEVATOR CO.)
Mile 386.5

(B)
CARGILL INC. DOCK
Mile 386.4

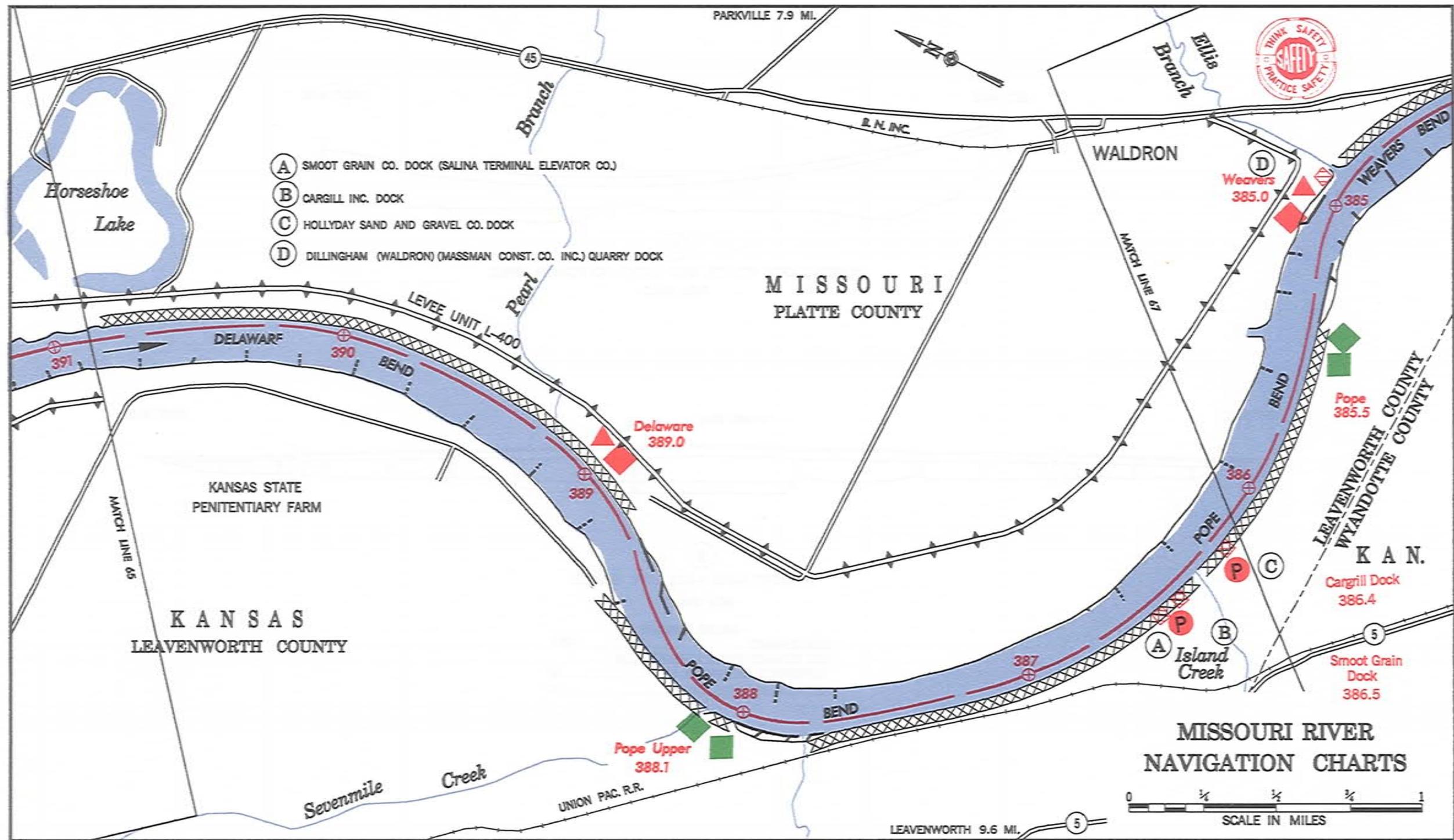
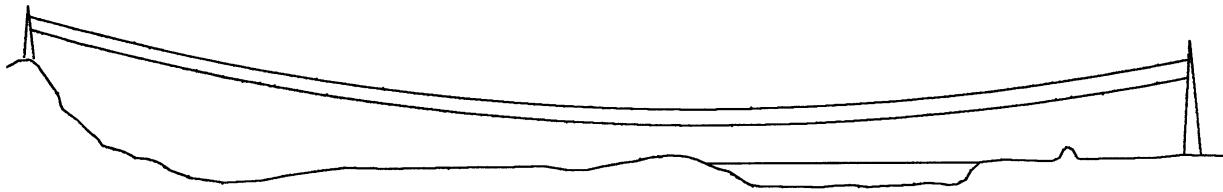


CHART NO. 66

LEFT BANK

RIGHT BANK



①

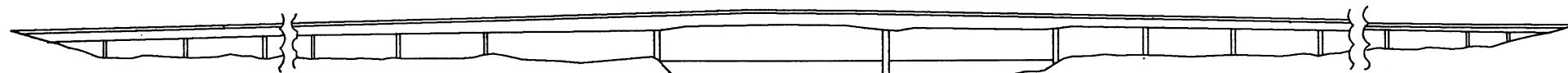
KANSAS CITY POWER AND LIGHT CO. POWER LINES

Mile 384.0

LEFT BANK

CHANNEL SPAN

RIGHT BANK



②

WOLCOTT, KANS I-435 HWY. BRIDGE

Mile 383.3

CHANNEL SPAN DATA

| | |
|---|--------|
| HORIZ. CLEARANCE..... | 400.0' |
| VERT. CLEARANCE (NORMAL NAVIGATION FLOW | |
| LEAVENWORTH GAGE READING 9.1) | .59' |
| VERT. CLEARANCE (FLOOD STAGE)..... | .46' |

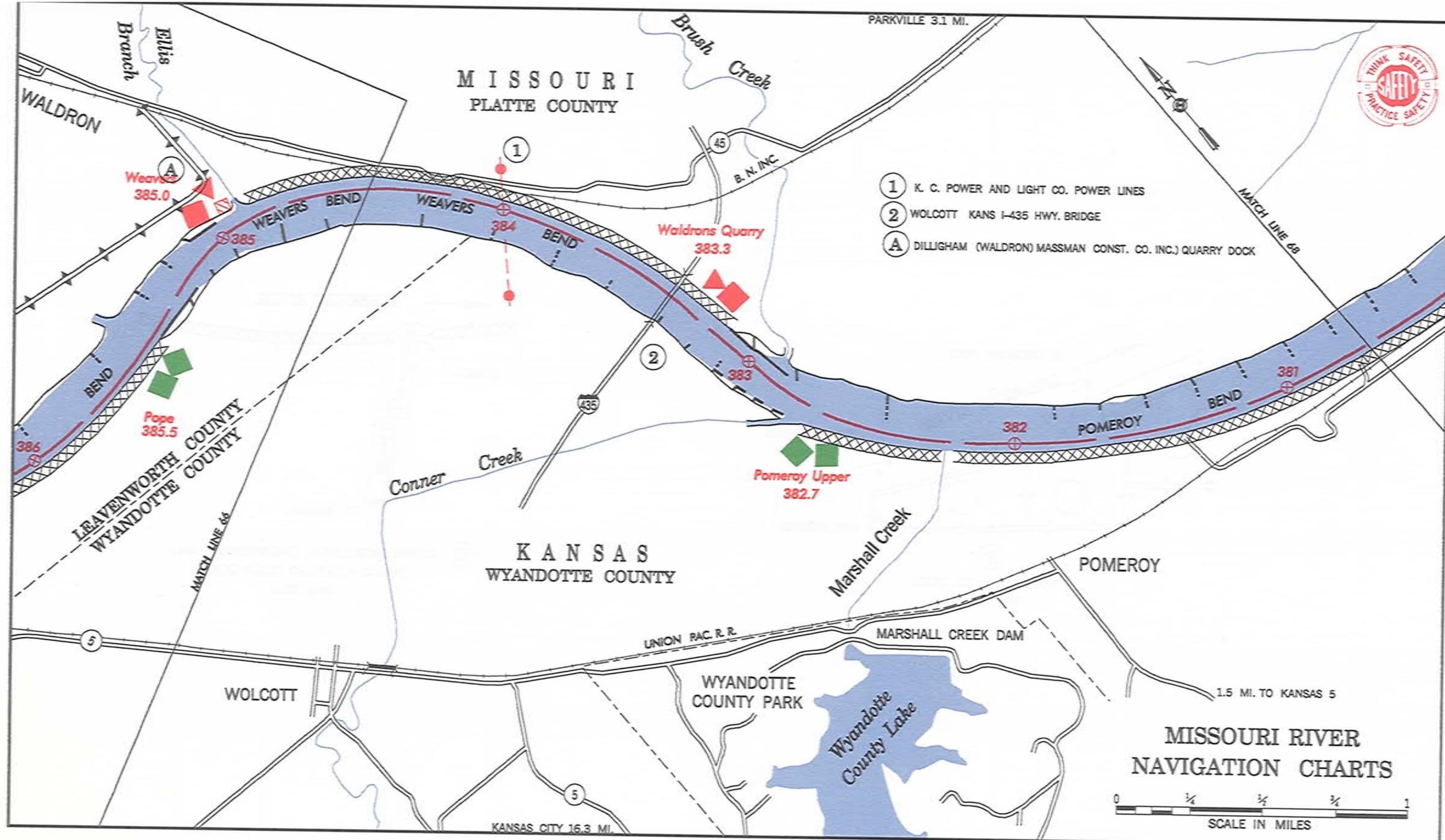
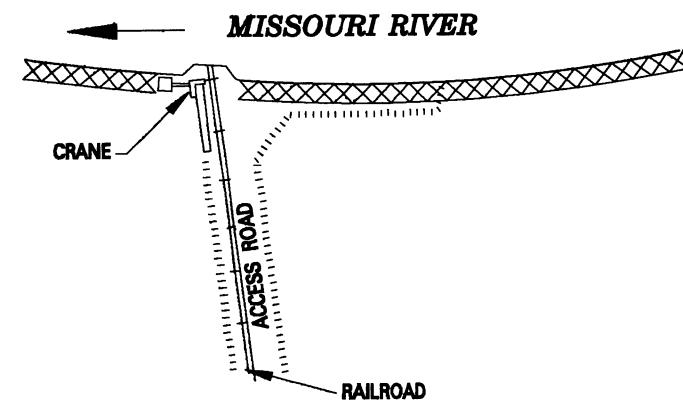
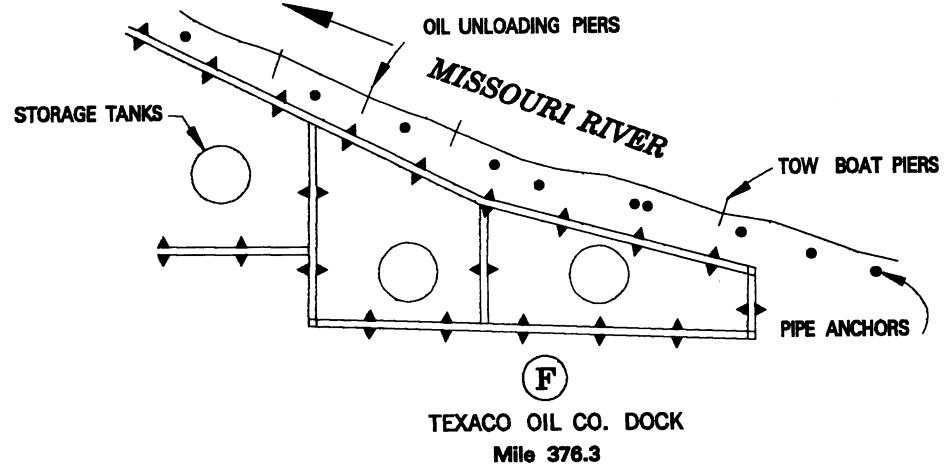


CHART NO. 67



MISSOURI RIVER NAVIGATION CHARTS



0 $\frac{1}{4}$ $\frac{1}{2}$ $\frac{3}{4}$ 1
SCALE IN MILES

I-29 3.8 MI.

- (A) JOHNSON CO. WATER DIST. NO.1 INTAKE
- (B) NEARMAN BOTTOMS POWER PLANT INTAKE
- (C) MID-CONTINENT ASPHALT AND PAVING CO. INTAKE
- (D) HOLLIDAY SAND AND GRAVEL CO. DOCK
- (E) ENGLISH LANDING RECREATION PARK (PARKVILLE)
- (F) TEXACO OIL CO. DOCK
- (G) INTERCONTINENTAL ENGR. AND MFG. DOCK

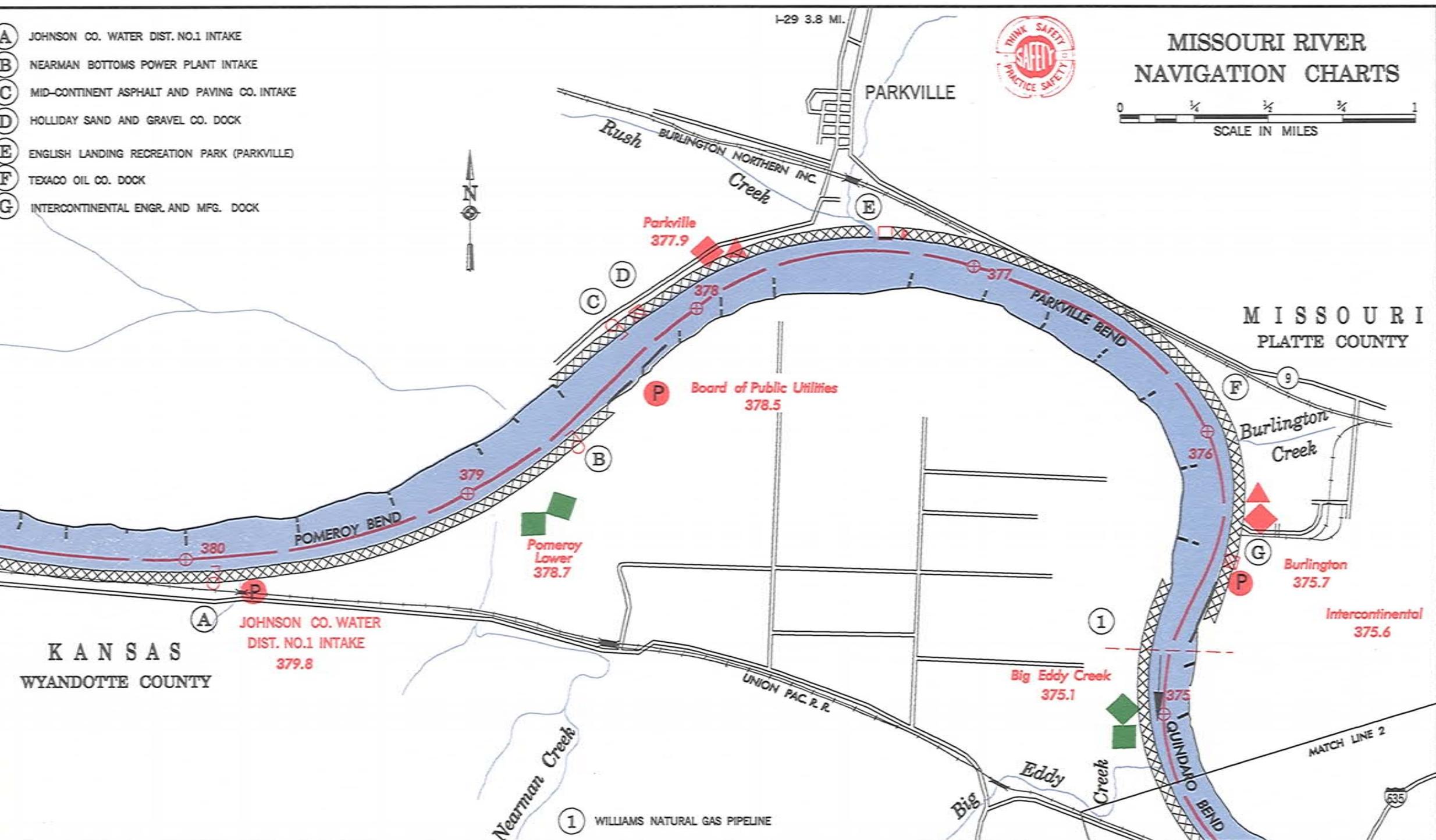
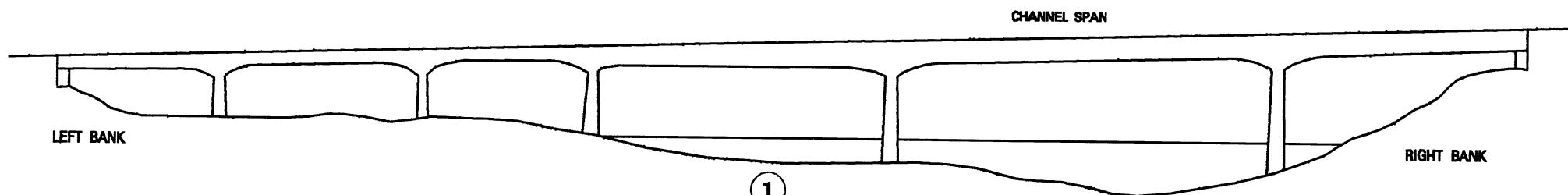


CHART NO. 68

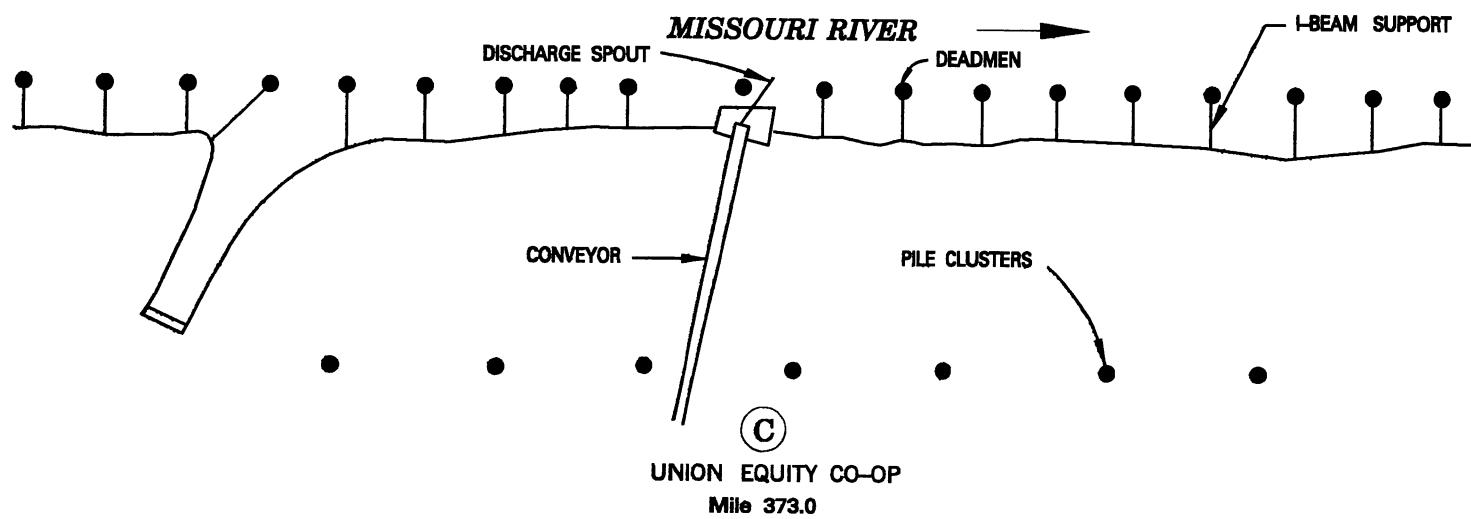


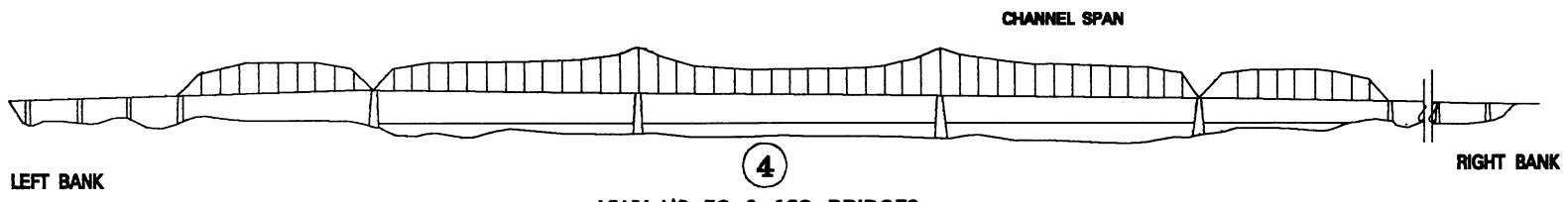
KANSAS CITY, KANS. I-635 HIGHWAY BRIDGE

Mile 374.1

CHANNEL SPAN DATA

| | |
|--|--------|
| TYPE | FIXED |
| HORIZ. CLEARANCE | 400.0' |
| VERT. CLEARANCE (NORMAL NAVIGATION FLOW) | |
| KANSAS CITY GAGE READING 4.5' | 63' |
| VERT. CLEARANCE (FLOOD STAGE) | 48' |





HWY US 59 & 169 BRIDGES
Mile 372.6

CHANNEL SPAN DATA

| | |
|--|--------|
| TYPE | FIXED |
| HORIZ. CLEARANCE | 380.0' |
| VERT. CLEARANCE (NORMAL NAVIGATION FLOW) | |
| KANSAS CITY GAGE READING 4.5) | 67' |
| VERT. CLEARANCE (FLOOD STAGE) | 52' |



MISSOURI

CLAY COUNTY

Kansas City Intake
370.5MISSOURI RIVER
NAVIGATION CHARTS

MATCH LINE 3

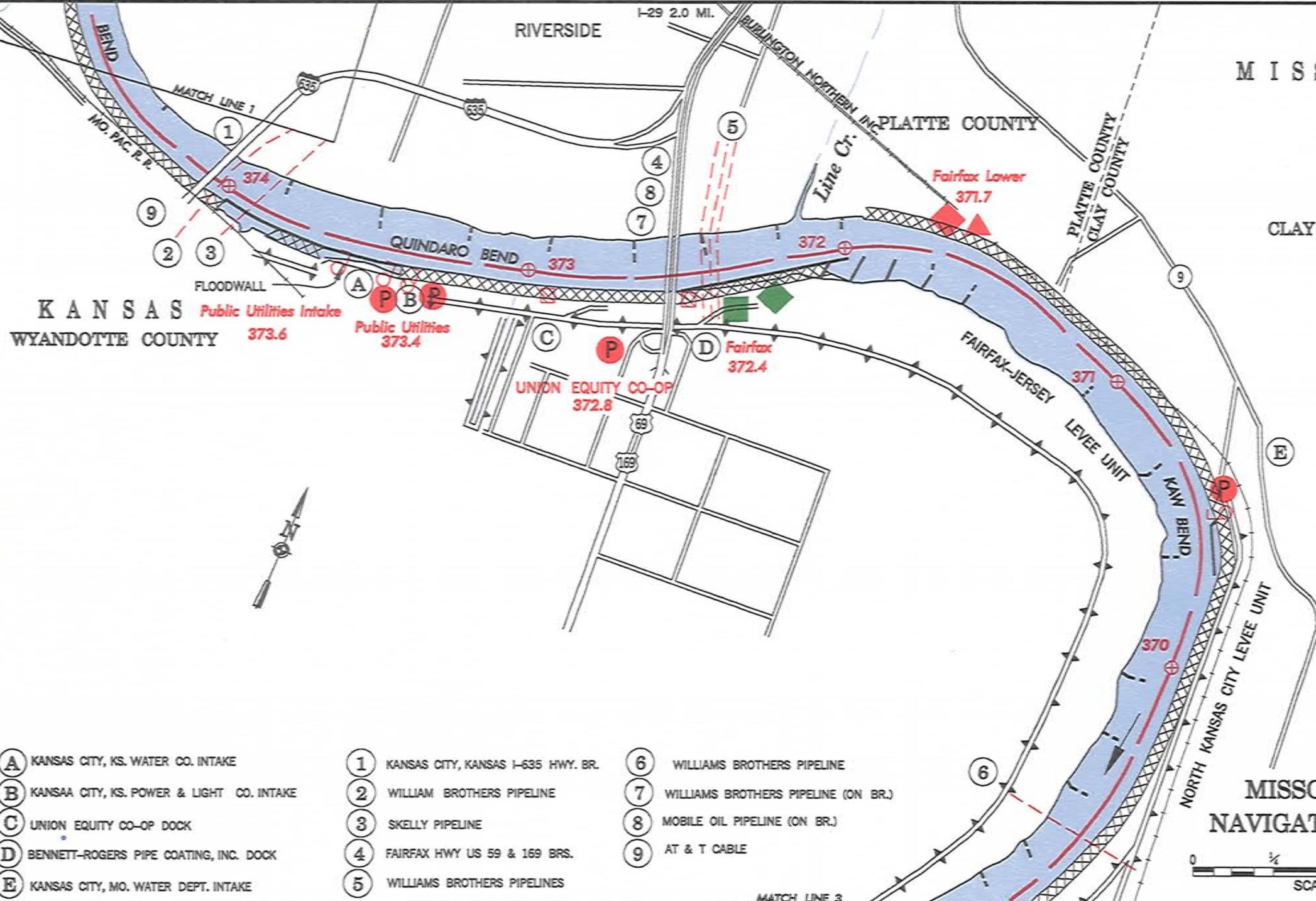
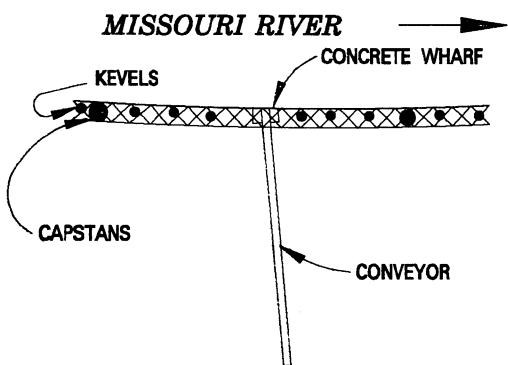
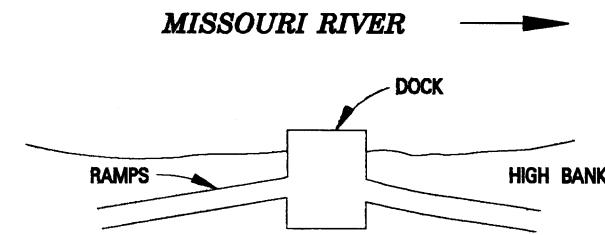
0 $\frac{1}{4}$ $\frac{1}{2}$ $\frac{1}{4}$ $\frac{1}{4}$ 1
SCALE IN MILES

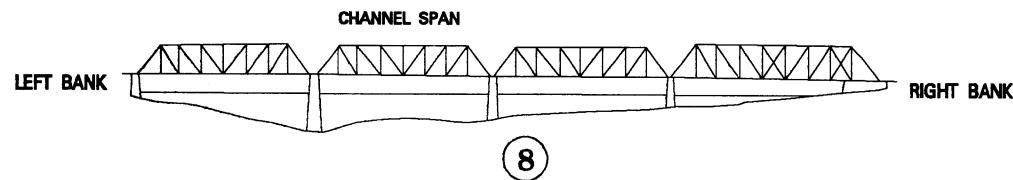
CHART NO. 69



(B) BARTLETT AND CO., INC.
MIDWEST TERMINAL
KANSAS CITY, KANS. PUBLIC TERMINAL
Mile 367.7



(D) AMERICAN COMPRESSED STEEL, INC.
LOADING DOCK
Mile 366.9

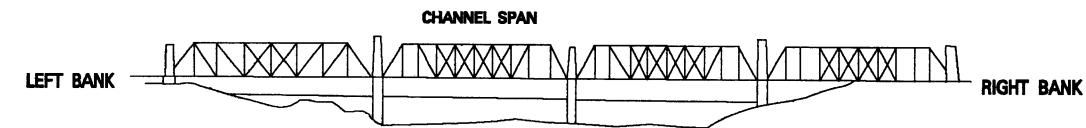


MO. PAC. R. R. BRIDGE

Mile 0.25

CHANNEL SPAN DATA

| TYPE | FIXED |
|--|--------|
| HORIZ. CLEARANCE | 203.5' |
| VERT. CLEARANCE (NORMAL NAVIGATION FLOW) | 35' |
| VERT. CLEARANCE (FLOOD STAGE) | 20' |

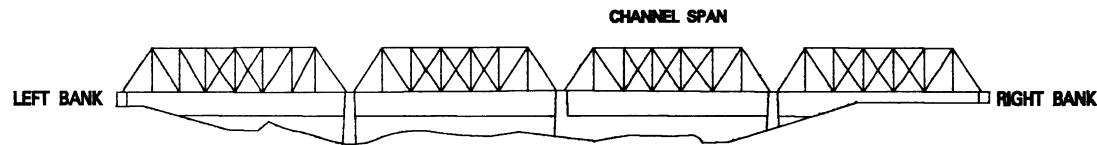


(1) U. P. R. R. BRIDGE(Kansas River)

Mile 1.49

CHANNEL SPAN DATA

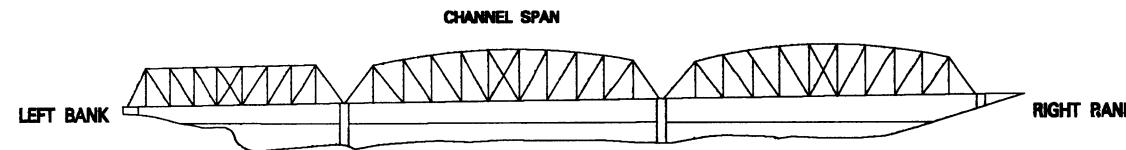
| TYPE | VERTICAL LIFT |
|----------------------------|---------------|
| HORIZ. CLEARANCE | 184.0' |
| VERT. CLEARANCE (N. N. F.) | 30' 39' |
| VERT. CLEARANCE (F. S.) | 14' 23' |



**2 MO. PAC. R. R. BRIDGE(Kansas River)
Mile 1.48**

CHANNEL SPAN DATA

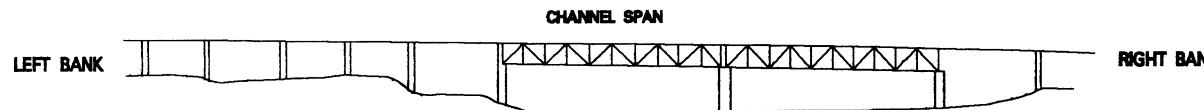
TYPE FIXED
 HORIZ. CLEARANCE 184.2'
 VERT. CLEARANCE (NORMAL NAVIGATION FLOW) 35'
 VERT. CLEARANCE (FLOOD STAGE) 19'



4 K. C. SOUTHERN RY. BRIDGE(Kansas River)
Mile 0.84

CHANNEL SPAN DATA

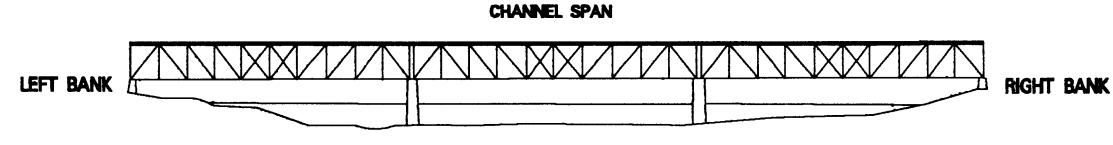
TYPE - FIXED
 HORIZ. CLEARANCE - 302.6
 VERT. CLEARANCE (NORMAL NAVIGATION FLOW) - 34
 VERT. CLEARANCE (FLOOD STAGE) - 18



**7 LEWIS AND CLARK VIADUCT (Kansas River)
(UPSTREAM)**

CHANNEL SPAN DATA

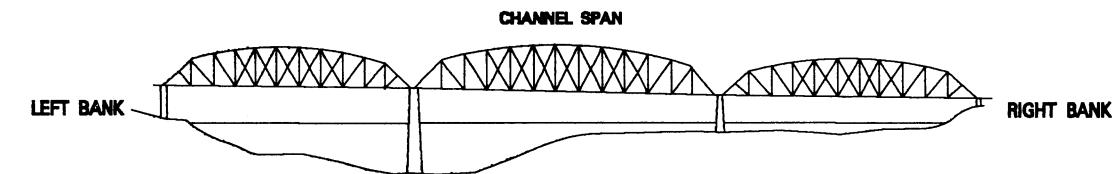
TYPE FIXED
HORIZ. CLEARANCE 303.7
VERT. CLEARANCE (NORMAL NAVIGATION FLOW) 45
VERT. CLEARANCE (FLOOD STAGE) 28



3 CENTRAL AVE. BRIDGE (Kansas River)
Mile 1.13

CHANNEL SPAN DATA

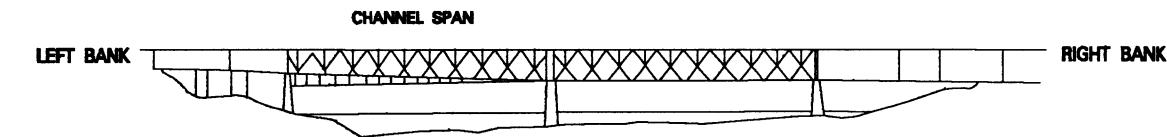
TYPE _____ FIXED
HORIZ. CLEARANCE _____ 250' 2"
VERT. CLEARANCE (NORMAL NAVIGATION FLOW) _____ 37'
VERT. CLEARANCE (FLOOD STAGE) _____ 21'



5 JAMES ST. BRIDGE (Kansas River)
Mile 0.47

CHANNEL SPAN DATA

| | |
|--|--------|
| TYPE | FIXED |
| HORIZ. CLEARANCE | 238.0' |
| VERT. CLEARANCE (NORMAL NAVIGATION FLOW) | 48' |
| VERT. CLARANCE (FLOOD STAGE) | 32' |

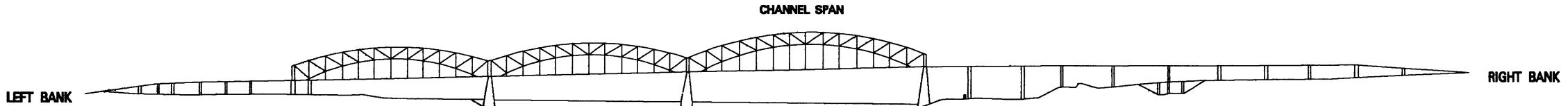


**7 LEWIS AND CLARK VIADUCT (Kansas River)
(DOWNSTREAM)**

Mile 0.32

CHANNEL SPAN DATA

| | |
|--|--------|
| TYPE | FIXED |
| HORIZ. CLEARANCE | 305.5' |
| VERT. CLEARANCE (NORMAL NAVIGATION FLOW) | 70' |
| VERT. CLEARANCE (FLOOD STAGE) | 54' |



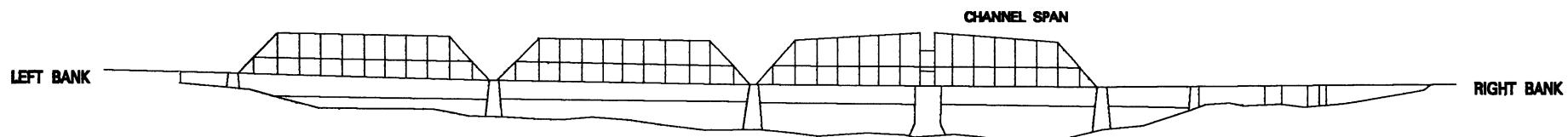
9

BROADWAY AVENUE BRIDGE

Mile 366.2

CHANNEL SPAN DATA

| | |
|--|--------|
| TYPE | FIXED |
| HORZ. CLEARANCE | 499.0' |
| VERT. CLEARANCE (NORMAL NAVIGATION FLOW KANSAS CITY GAGE READING 4.5) | 7' |
| VERT. CLEARANCE (FLOOD STAGE) | 53' |



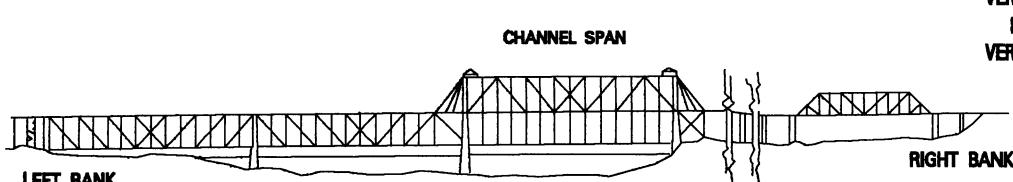
10

HANNIBAL R. R. BRIDGE

Mile 366.1

CHANNEL SPAN DATA

| | |
|--|--------|
| TYPE | SWING |
| HORZ. CLEARANCE | 200.0' |
| VERT. CLEARANCE (NORMAL NAVIGATION FLOW KANSAS CITY GAGE READING 4.5) | 47' |
| VERT. CLEARANCE (FLOOD STAGE) | 23' |



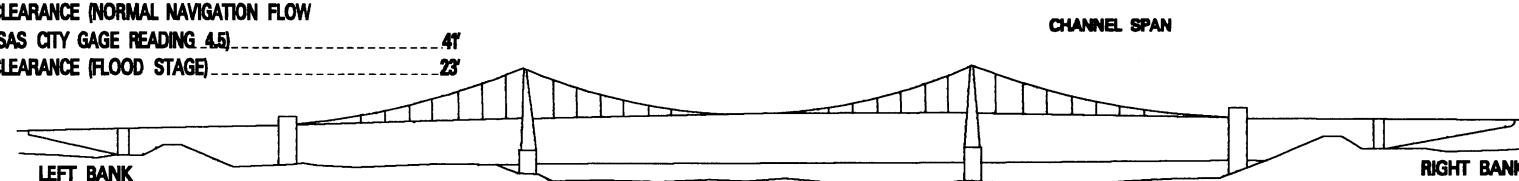
12

A. S. B. BRIDGE

Mile 365.6

CHANNEL SPAN DATA

| TYPE | VERTICAL LIFT |
|--|---------------|
| HORZ. CLEARANCE | 395.0' |
| | NORMAL RAISED |
| VERT. CLEARANCE (NORMAL NAVIGATION FLOW KANSAS CITY GAGE READING 4.5) | 35' 84' |
| VERT. CLEARANCE (FLOOD STAGE) | 17' 66' |



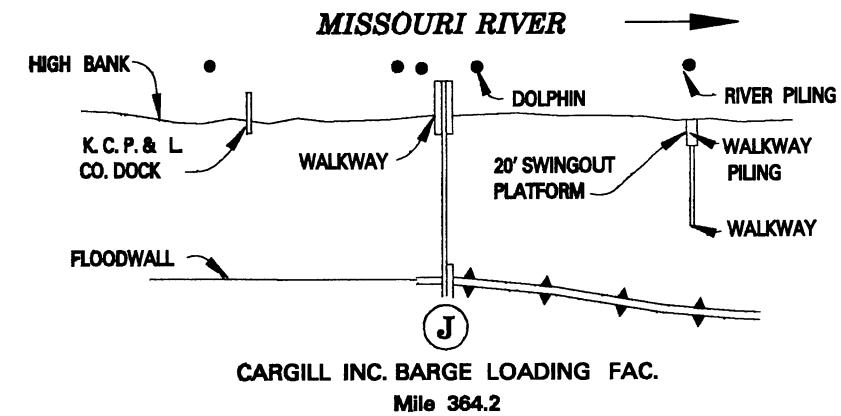
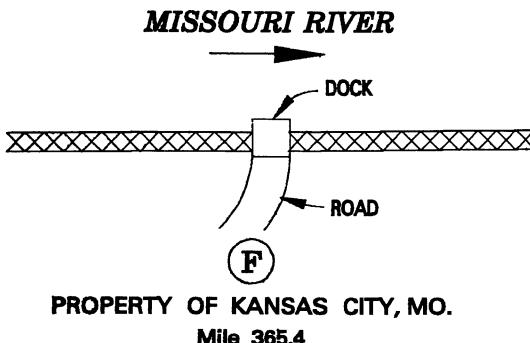
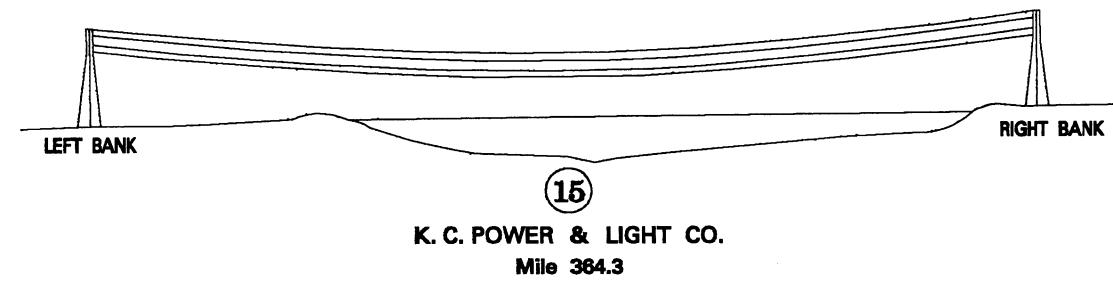
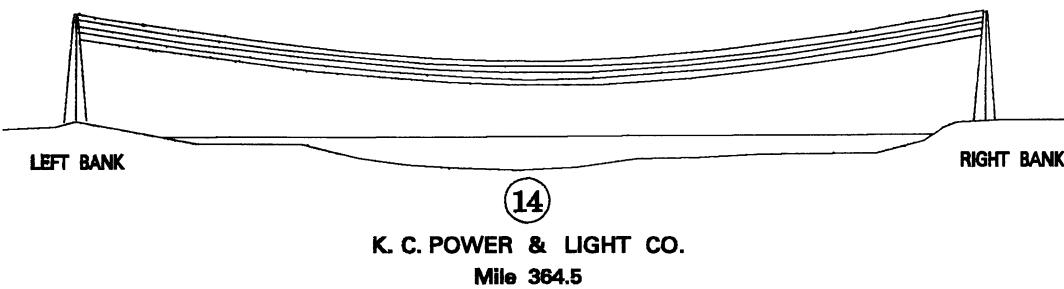
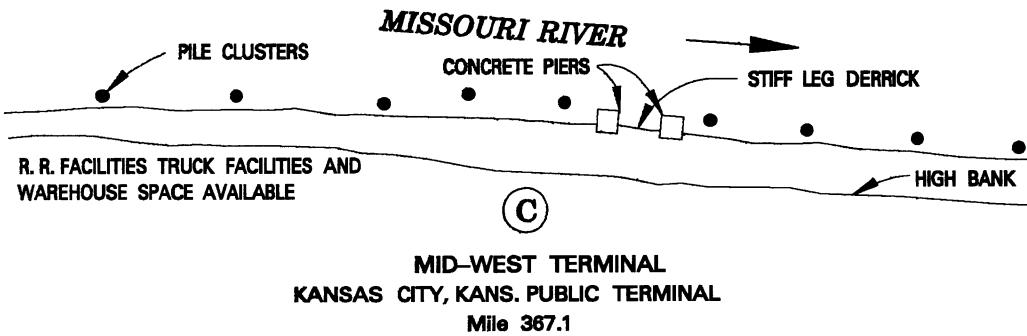
13

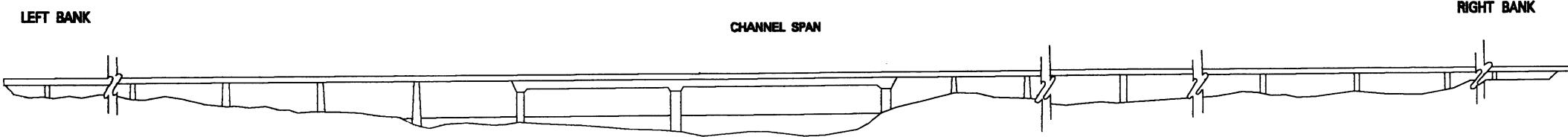
PASEO BRIDGE

Mile 364.8

CHANNEL SPAN DATA

| | |
|--|--------|
| TYPE | FIXED |
| HORZ. CLEARANCE | 250.0' |
| VERT. CLEARANCE (NORMAL NAVIGATION FLOW KANSAS CITY GAGE READING 4.5) | 70' |
| VERT. CLEARANCE (FLOOD STAGE) | 52' |

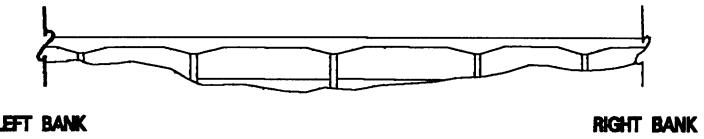




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HEART OF AMERICA BRIDGE
Mile 365.5
CHANNEL SPAN DATA

| | |
|--|--------|
| TYPE | FIXED |
| HORIZ. CLEARANCE | 400.0' |
| VERT. CLEARANCE (NORMAL NAVIGATION FLOW) | |
| KANSAS CITY GAGE READING 6.1 | 63' |
| VERT. CLEARANCE (FLOOD STAGE) | 47' |



LEFT BANK

RIGHT BANK

17

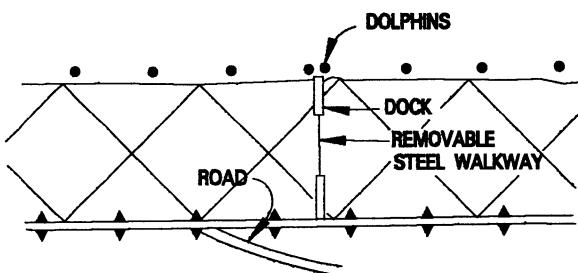
INTERSTATE 670 HWY. BRIDGE (Kansas River)

Mile 1.5

CHANNEL SPAN DATA

TYPE _____ FIXED
HORIZ. CLEARANCE _____ 170.0'
VERT. CLEARANCE (NORMAL NAVIGATION FLOW) _____ 43'
VERT. CLEARANCE (FLOOD STAGE) _____ 27'

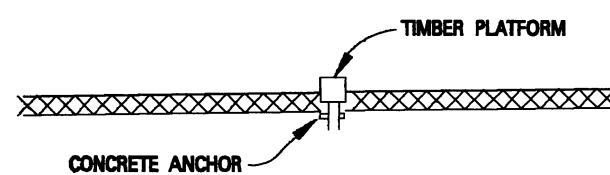
MISSOURI RIVE



A

WILLIAMS BROS. PIPELINE CO.
Mile 368.2

MISSOURI RIVER



BORCHERS ENTERPRISES, INC.
Mile 364.1

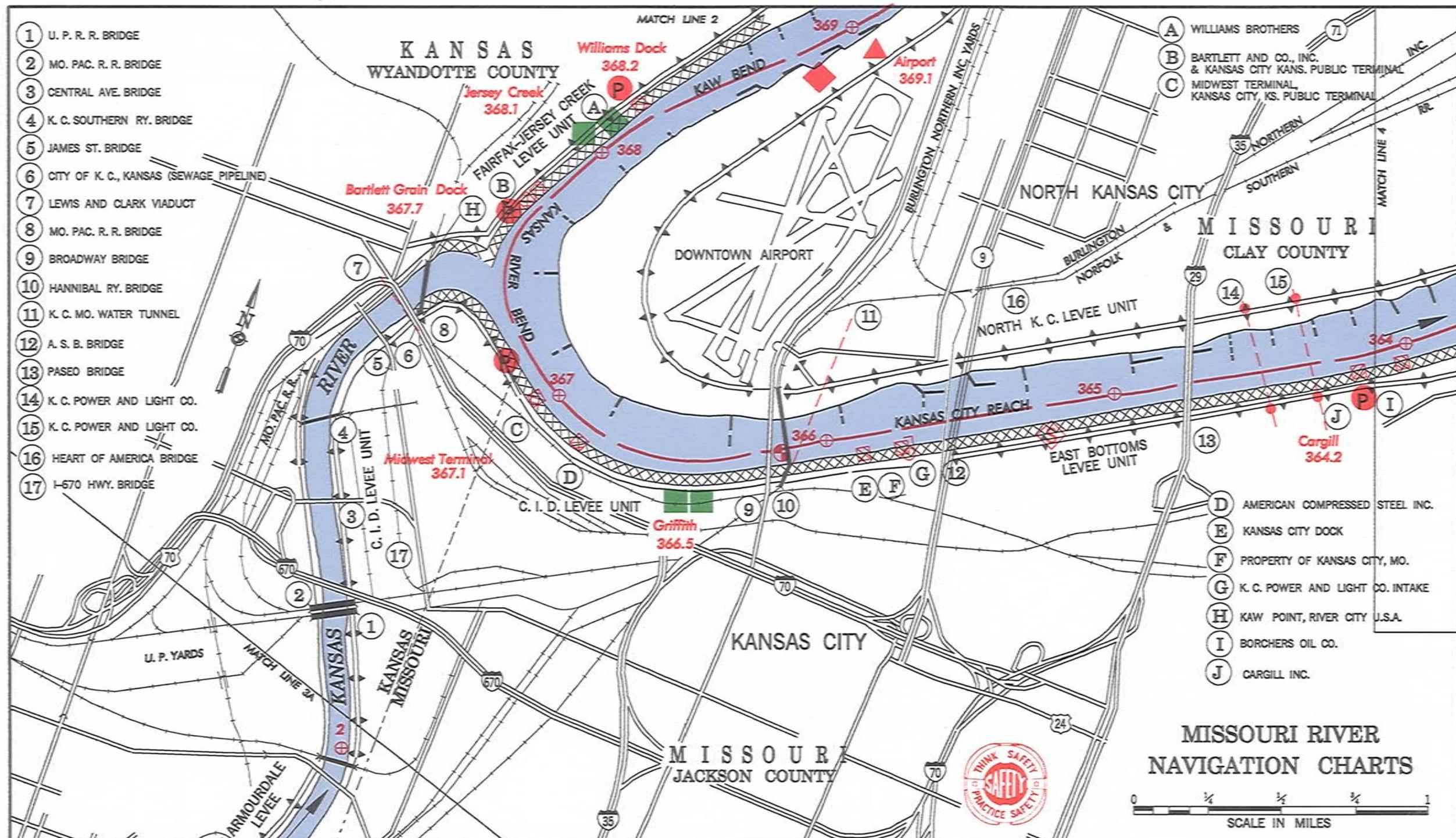
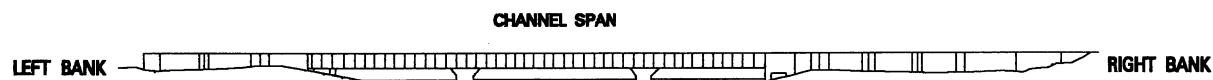
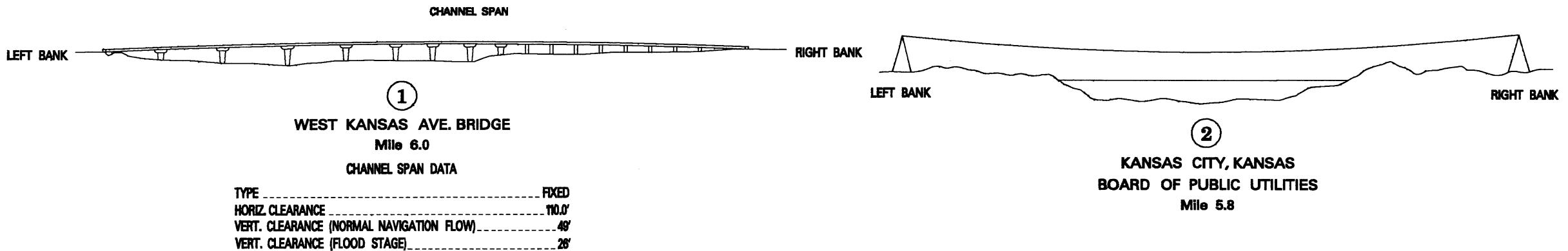


CHART NO. 70



3

18TH ST. BRIDGE

Mile 5.1

CHANNEL SPAN DATA

| | |
|--|--------|
| TYPE | FIXED |
| HORIZ. CLEARANCE | 282.0' |
| VERT. CLEARANCE (NORMAL NAVIGATION FLOW) | 43' |
| VERT. CLEARANCE (FLOOD STAGE) | 22' |

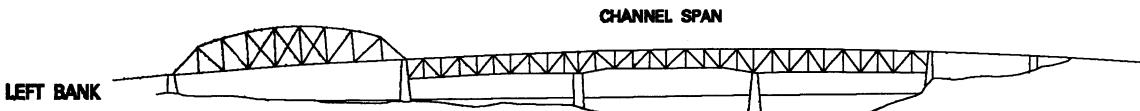


4

KANSAS CITY, KANSAS

BOARD OF PUBLIC UTILITIES

Mile 4.8



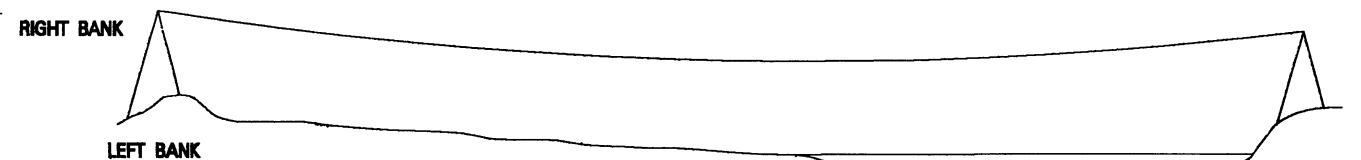
6

12TH ST. BRIDGE

Mile 4.5

CHANNEL SPAN DATA

| | |
|--|--------|
| TYPE | FIXED |
| HORIZ. CLEARANCE | 200.0' |
| VERT. CLEARANCE (NORMAL NAVIGATION FLOW) | 43' |
| VERT. CLEARANCE (FLOOD STAGE) | 24' |

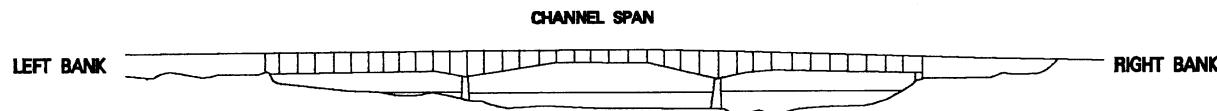


8

KANSAS CITY, KANSAS

BOARD OF PUBLIC UTILITIES

Mile 4.0

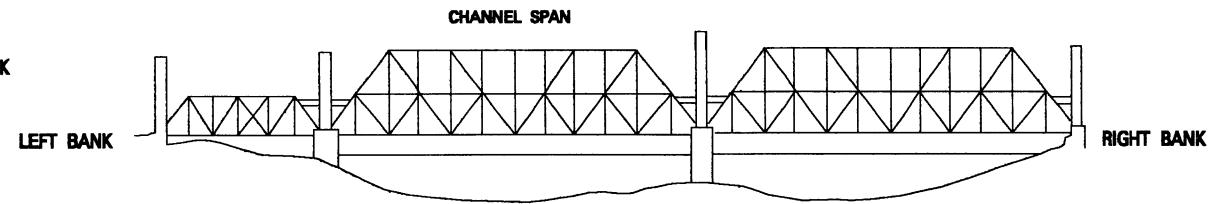


9

7TH ST. BRIDGE (Kansas River)
Mile 3.5

CHANNEL SPAN DATA

TYPE - FIXED
 HORIZ. CLEARANCE - 273.2'
 VERT. CLEARANCE (NORMAL NAVIGATION FLOW) - 34'
 VERT. CLEARANCE (FLOOD STAGE) - 16'

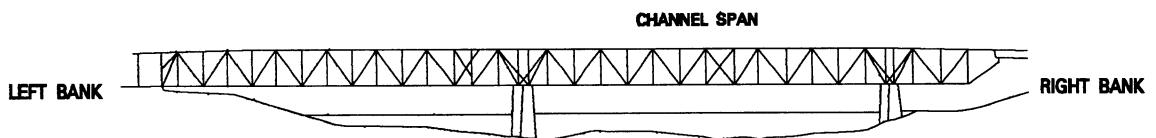


11

K. C. TERMINAL R. R. BRIDGE (Kansas River)
Mile 2.6

CHANNEL SPAN DATA

| | | |
|----------------------------|---------------|--------|
| TYPE | VERTICAL LIFT | |
| HORIZ. CLEARANCE | 302'4" | |
| | NORMAL | RAISED |
| VERT. CLEARANCE (N. N. F.) | 31' | 41' |
| VERT. CLEARANCE (F. S.) | 14' | 25' |

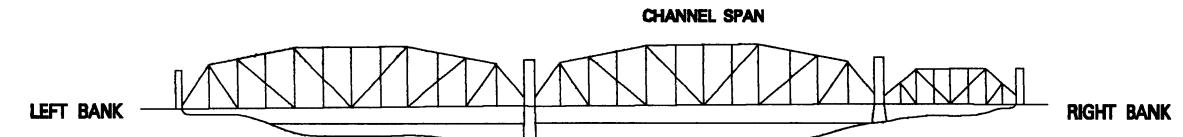


12

EAST KANSAS AVE. BRIDGE (Kansas River)
Mile 2.2

CHANNEL SPAN DATA

TYPE - FIXED
 HORIZ. CLEARANCE - 37.0
 VERT. CLEARANCE (NORMAL NAVIGATION FLOW) - 37
 VERT. CLEARANCE (FLOOD STAGE) - 20

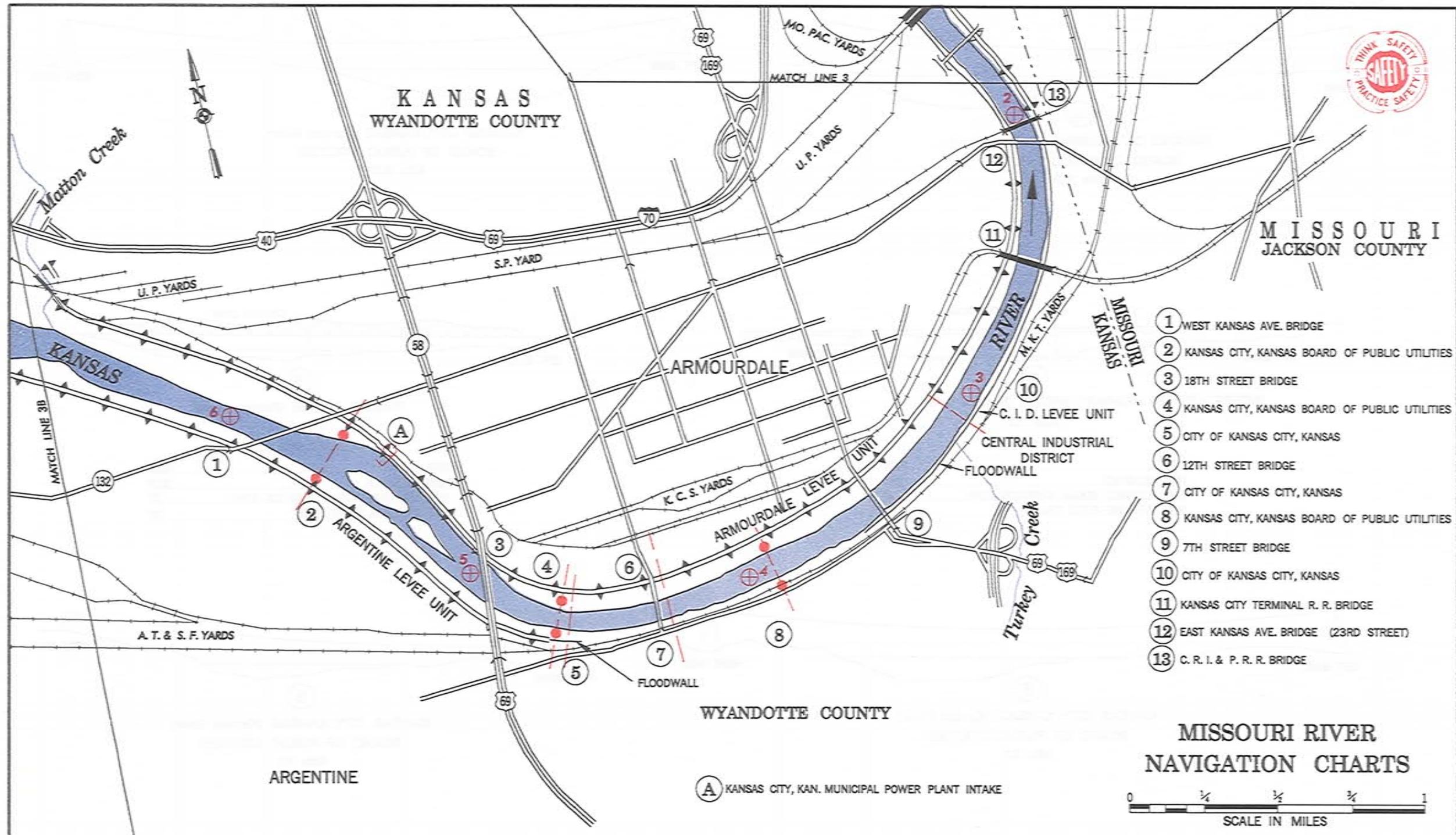


13

SOUTHERN PACIFIC BRIDGE (Kansas River)
Mile 2.1

CHANNEL SPAN DATA

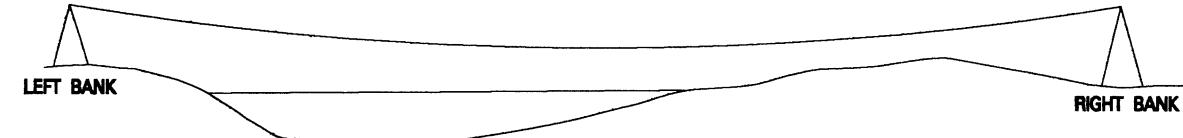
| | |
|--|---------------|
| TYPE | VERTICAL LIFT |
| HORIZ. CLEARANCE | 305'5" |
| VERT. CLEARANCE (NORMAL NAVIGATION FLOW) | 31' |
| VERT. CLEARANCE (FLOOD STAGE) | 14' |





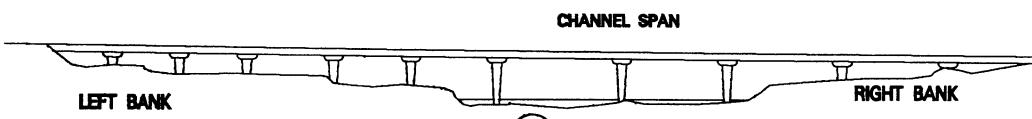
4

KANSAS CITY, KANSAS (Kansas River)
BOARD OF PUBLIC UTILITIES
Mile 10.9



6

KANSAS CITY, KANSAS (Kansas River)
BOARD OF PUBLIC UTILITIES
Mile 9.33



9

INTERSTATE 635 HIGHWAY BRIDGE (Kansas River)
Mile 7.3

CHANNEL SPAN DATA

| | |
|--|--------|
| TYPE | FIXED |
| HORIZ. CLEARANCE | 230.0' |
| VERT. CLEARANCE (NORMAL NAVIGATION FLOW) | 62' |
| VERT. CLEARANCE (FLOOD STAGE) | 35' |



5

TURNER BRIDGE (Kansas River)
Mile 9.33

CHANNEL SPAN DATA

| | |
|--|--------|
| TYPE | FIXED |
| HORIZ. CLEARANCE | 310.0' |
| VERT. CLEARANCE (NORMAL NAVIGATION FLOW) | 57' |
| VERT. CLEARANCE (FLOOD STAGE) | 28' |



6

KANSAS CITY, KANSAS (Kansas River)
BOARD OF PUBLIC UTILITIES
Mile 9.1



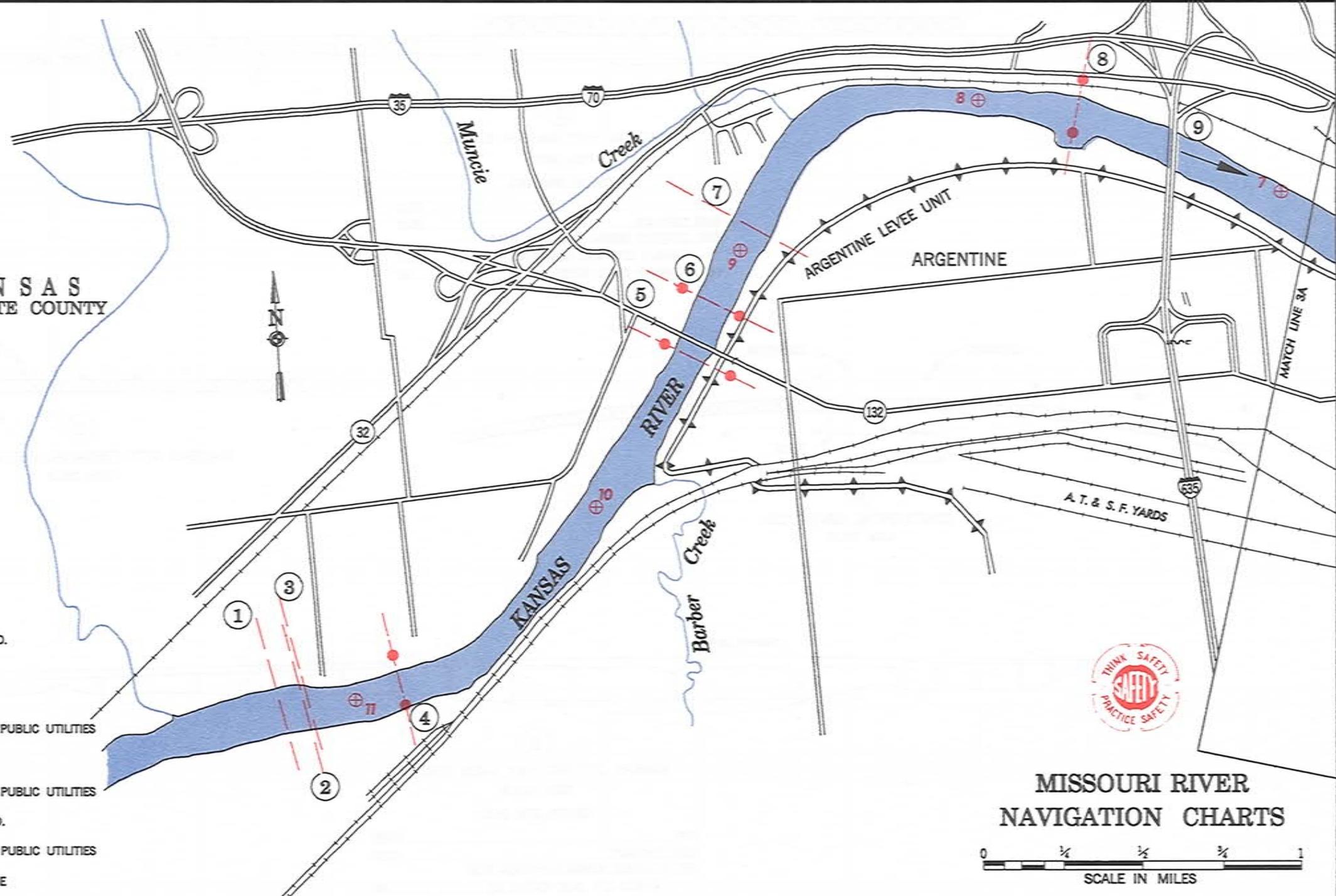
8

KANSAS CITY, KANSAS (Kansas River)
BOARD OF PUBLIC UTILITIES
Mile 7.7

KANSAS
WYANDOTTE COUNTY



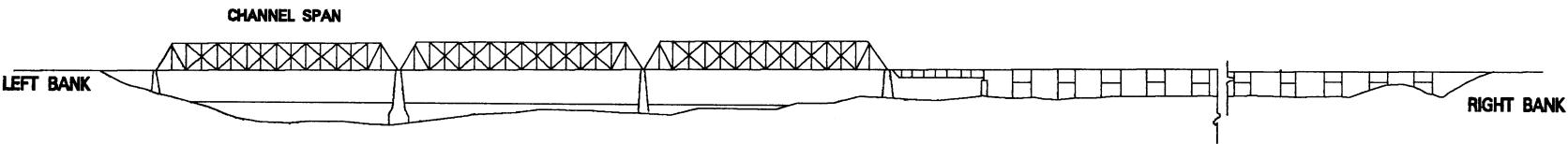
- 1 WILLIAMS BROTHERS PIPELINE CO.
- 2 PHILLIPS PETROLEUM CO.
- 3 PHILLIPS PETROLEUM CO.
- 4 KANSAS CITY,KANSAS BOARD OF PUBLIC UTILITIES
- 5 TURNER BRIDGE
- 6 KANSAS CITY,KANSAS BOARD OF PUBLIC UTILITIES
- 7 WILLIAMS BROTHERS PIPELINE CO.
- 8 KANSAS CITY,KANSAS BOARD OF PUBLIC UTILITIES
- 9 INTERSTATE 635 HIGHWAY BRIDGE



MISSOURI RIVER
NAVIGATION CHARTS

0 $\frac{1}{4}$ $\frac{1}{2}$ $\frac{3}{4}$ 1
SCALE IN MILES

CHART NO. 70B



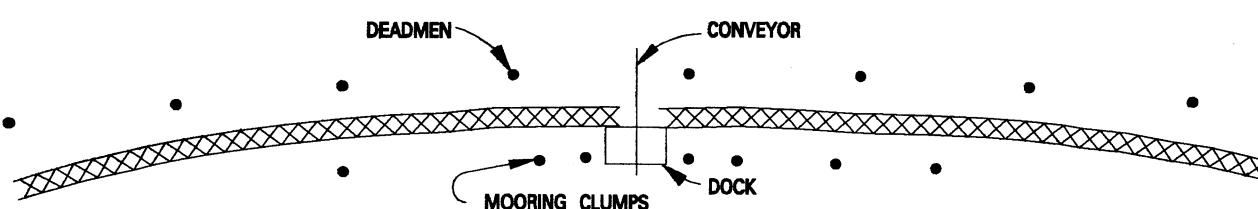
①

CHOUTEAU HWY Mo. 269 BRIDGE

Mile 362.3

CHANNEL SPAN DATA

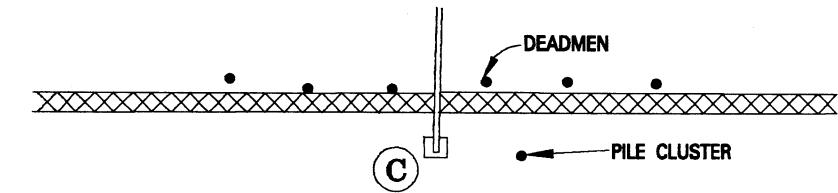
| | |
|--|--------|
| TYPE | FIXED |
| HORIZ. CLEARANCE | 290.0' |
| VERT. CLEARANCE (NORMAL NAVIGATION FLOW KANSAS CITY GAGE READING 4.5) | 70' |
| VERT. CLEARANCE (FLOOD STAGE) | 52' |



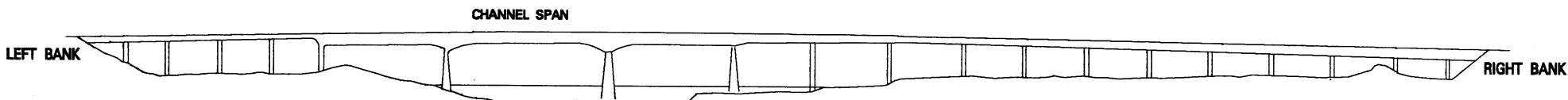
②

CONTINENTAL GRAIN CO.

Mile 361.6



KANSAS CITY TERMINAL ELEVATOR CO.
Mile 361.0



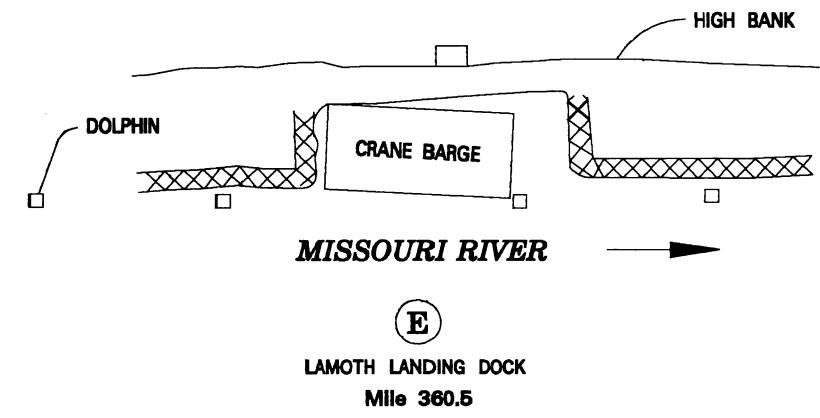
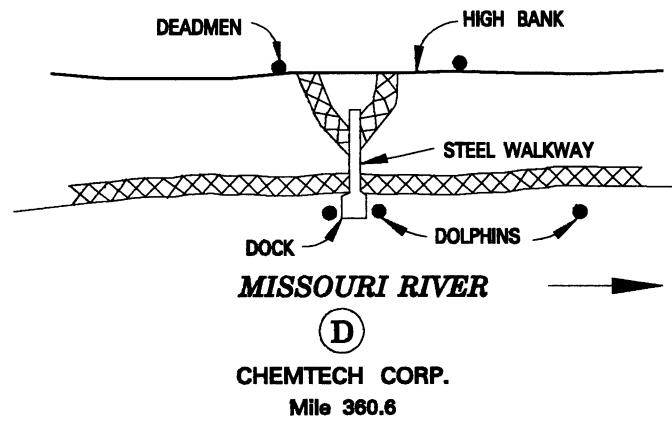
③

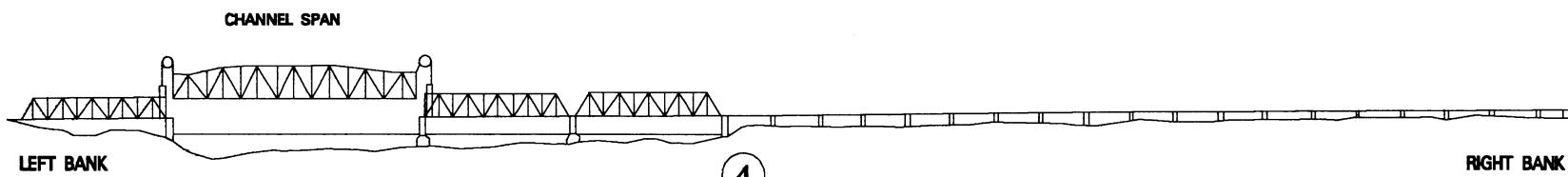
KANSAS CITY, MO. HWY I-435 BRIDGE

Mile 360.3

CHANNEL SPAN DATA

| | |
|--|--------|
| TYPE | FIXED |
| HORIZ. CLEARANCE | 400.0' |
| VERT. CLEARANCE (NORMAL NAVIGATION FLOW KANSAS CITY GAGE READING 4.5) | 58' |
| VERT. CLEARANCE (FLOOD STAGE) | 44' |



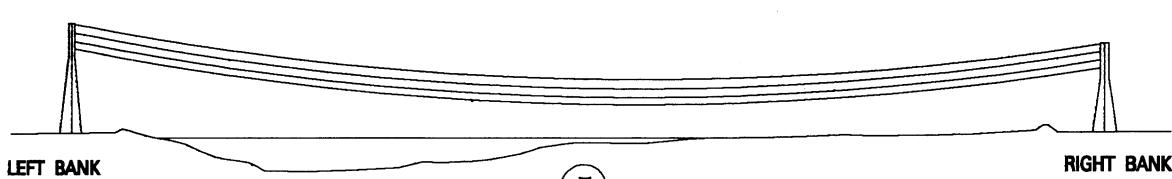


HARRY S. TRUMAN R.R. BRIDGE

Mile 359.3

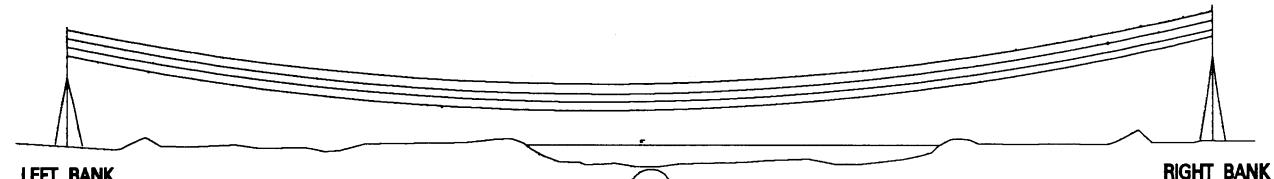
CHANNEL SPAN DATA

TYPE VERTICAL LIFT
HORIZ. CLEARANCE 403.0'
VERT. CLEARANCE (NORMAL NAVIGATION FLOW)
KANSAS CITY GAGE READING 4.5) 34' 69"
VERT. CLEARANCE (FLOOD STAGE) 19' 54"



K. C. POWER & LIGHT CO.

Mile 359.1



K. C. POWER & LIGHT CO.

Mile 358.6

MISSOURI RIVER NAVIGATION CHARTS



0 $\frac{1}{4}$ $\frac{1}{2}$ $\frac{3}{4}$ 1
SCALE IN MILES

RANDOLPH

- 1 CHOUTEAU HWY Mo. 269 Br.
- 2 K.C. MO. SEWAGE PIPELINES
- 3 KANSASCITY, MO. HWY I-435 Br.
- 4 HARRY S. TRUMAN R.R. Br
- 5 K.C.P. & L POWER LINE
- 6 K.C.P. & L POWER LINE
- 7 GAS SERVICE PIPELINE (on Br.)

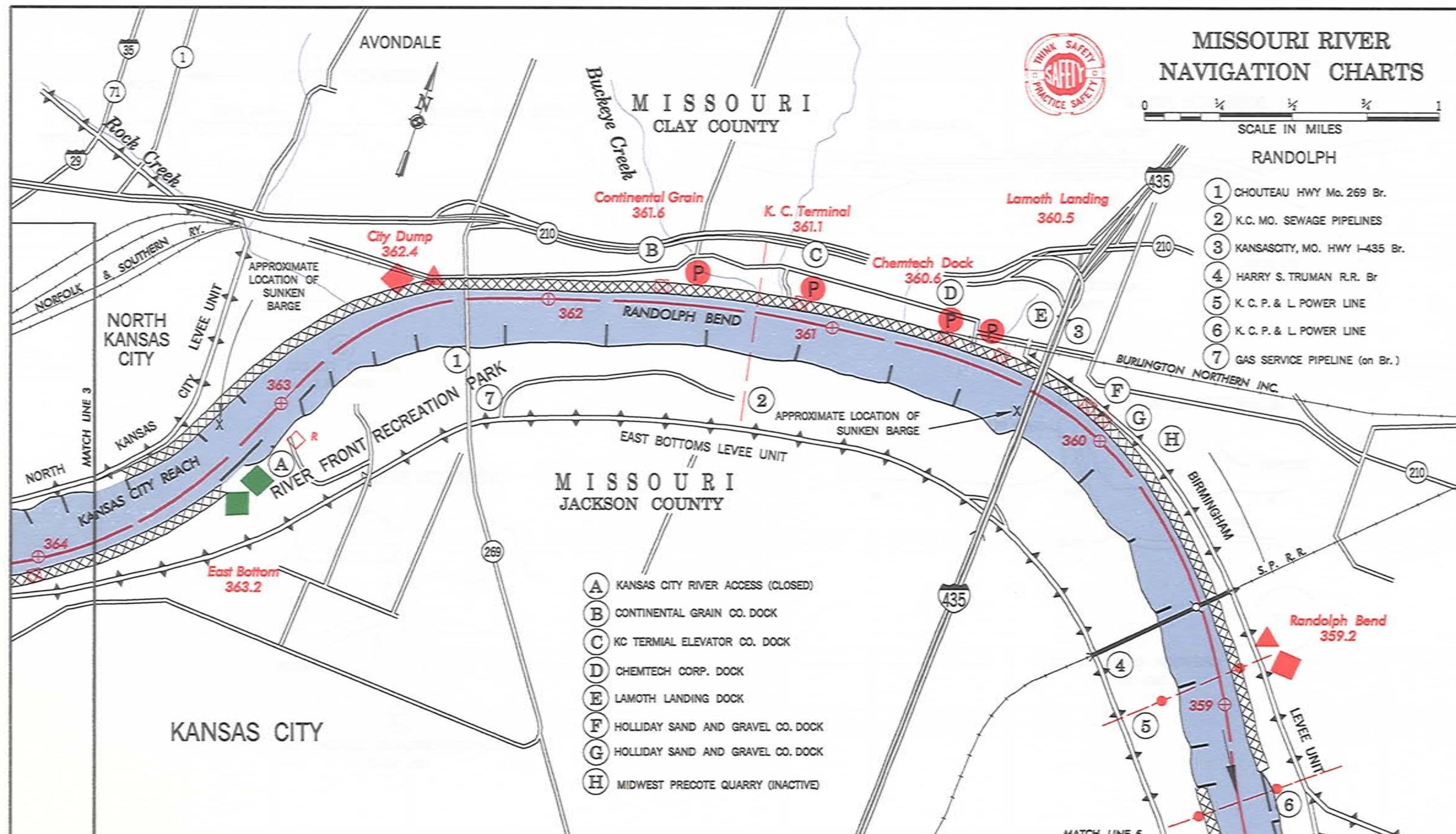
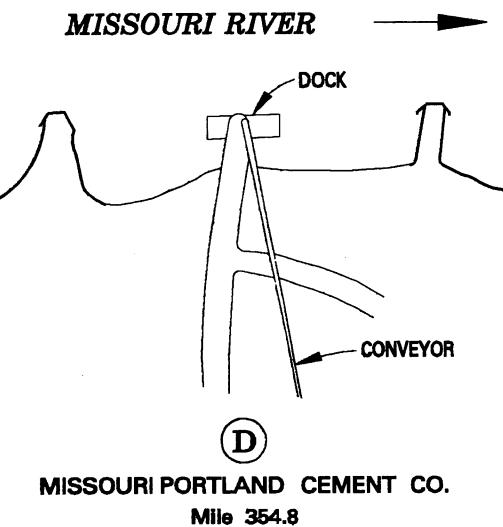
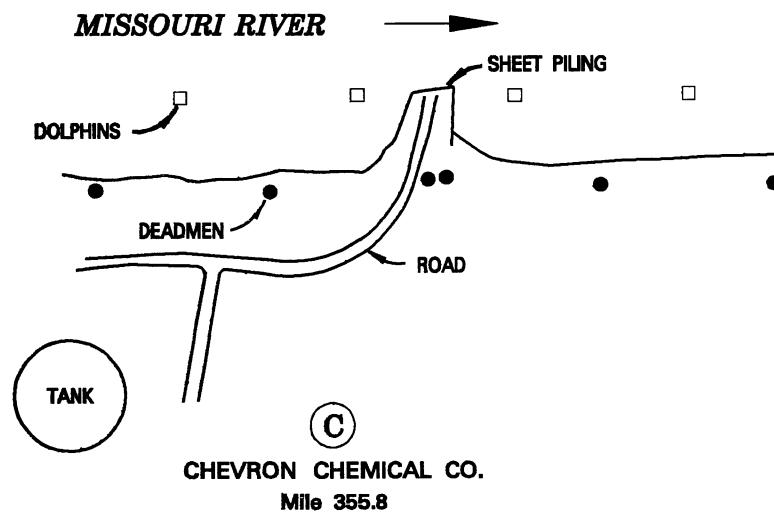
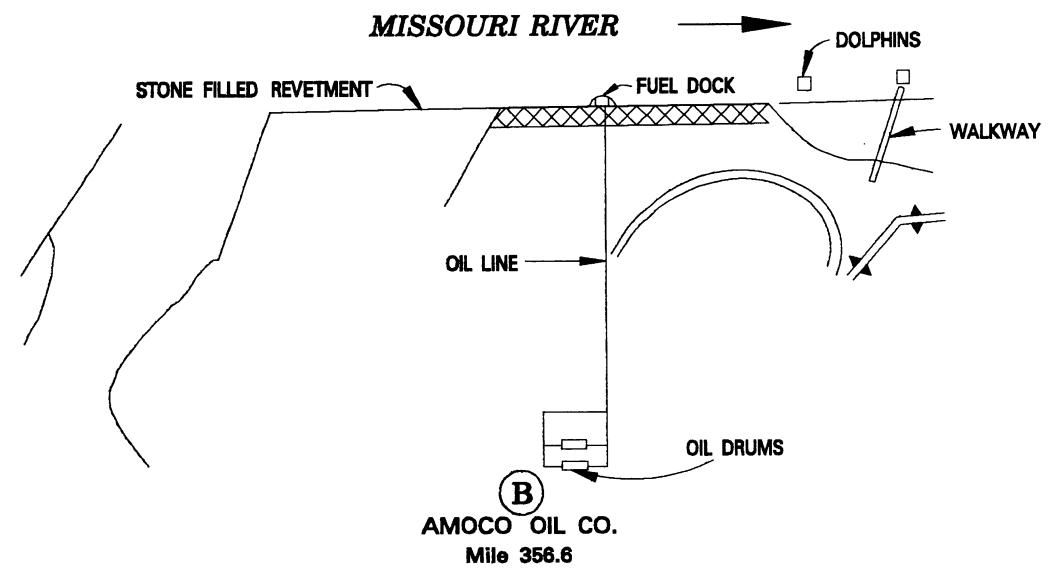
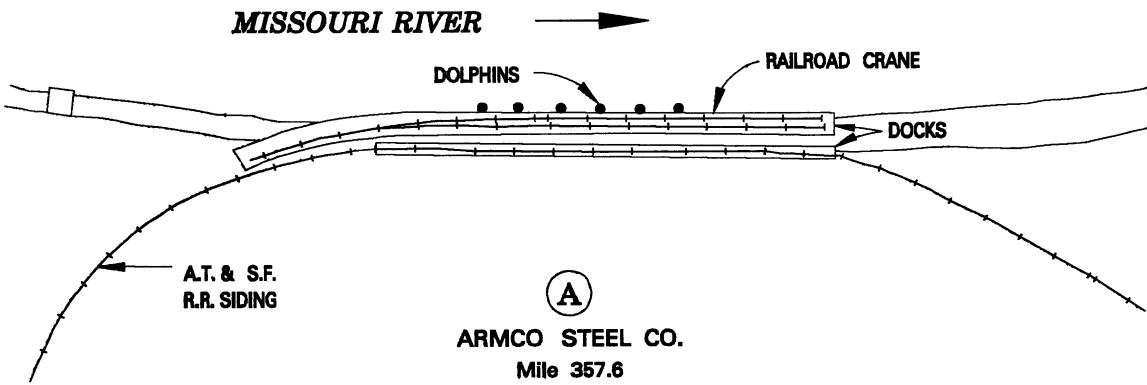
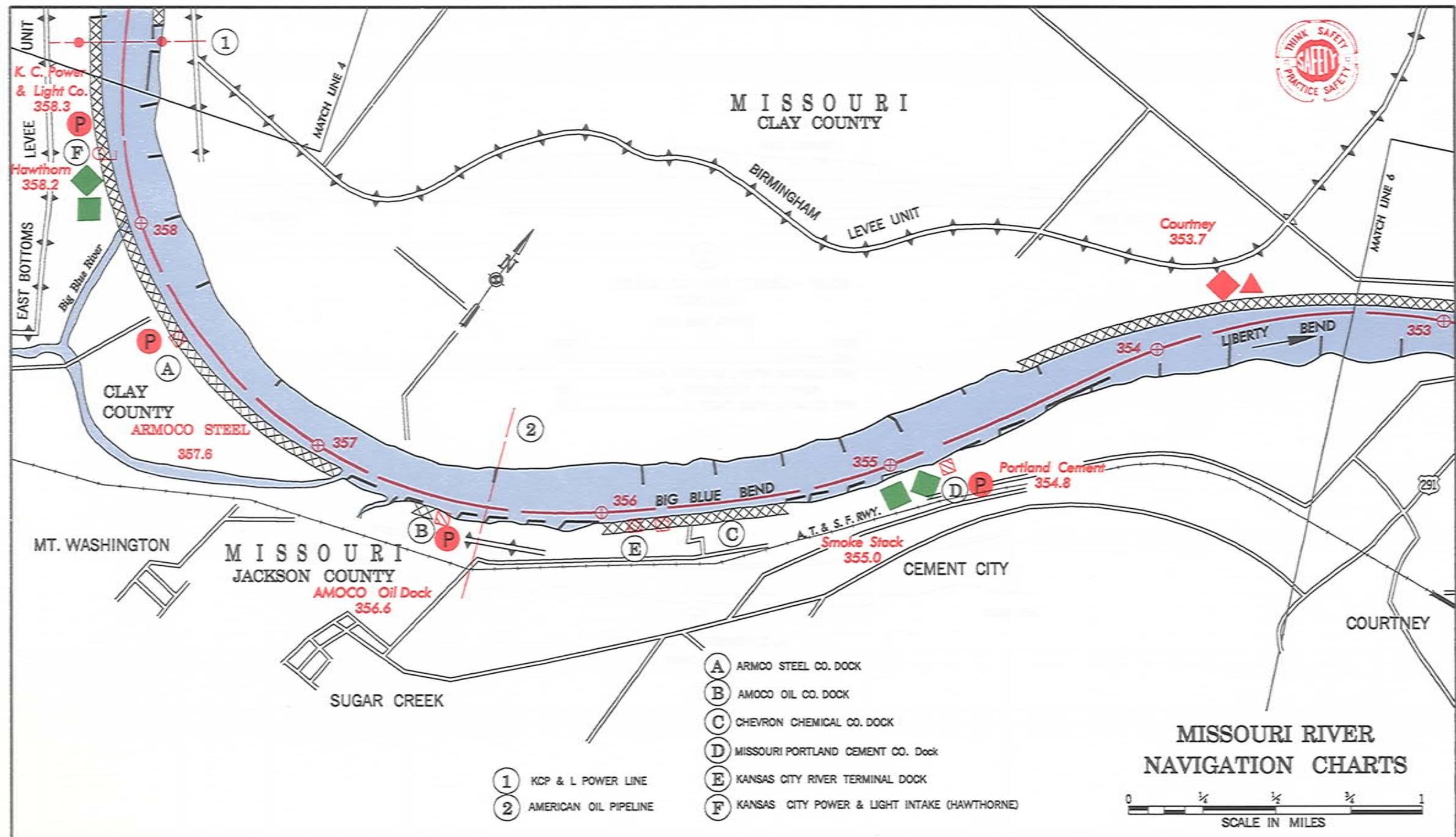


CHART NO. 71

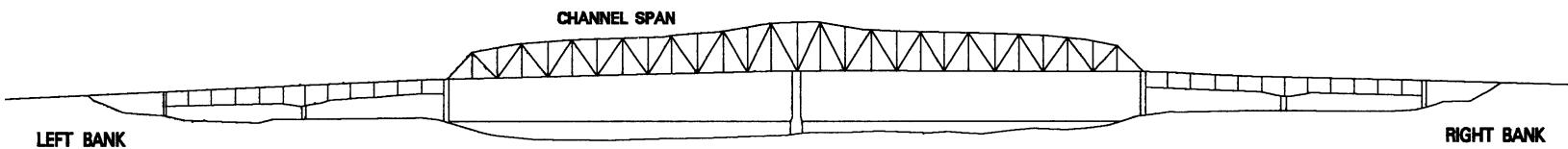




MISSOURI RIVER
NAVIGATION CHARTS

A horizontal scale bar with tick marks at 0, 1/4, 1/2, and 3/4. Below the bar, the text "SCALE IN MILES" is centered.

CHART NO. 72



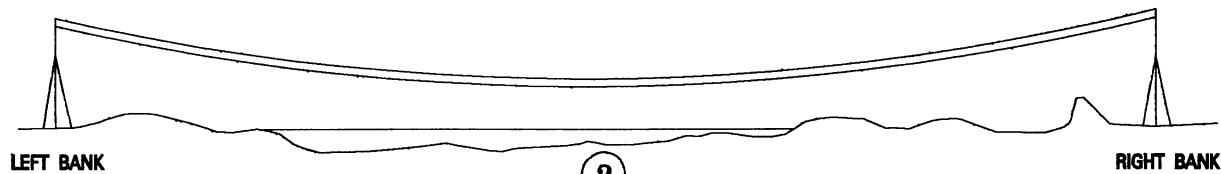
①

INDEP - LIBERTY HWY US 291 BR.

Mile 352.7

CHANNEL SPAN DATA

| | | |
|--|-------|--------|
| TYPE | ----- | FIXED |
| HORIZ. CLEARANCE | ----- | 400.0' |
| VERT. CLEARANCE (NORMAL NAVIGATION FLOW KANSAS CITY GAGE READING 4.5) | ----- | 67' |
| VERT. CLEARANCE (FLOOD STAGE) | ----- | 54' |



②

K. C. POWER & LIGHT CO.

Mile 349.0

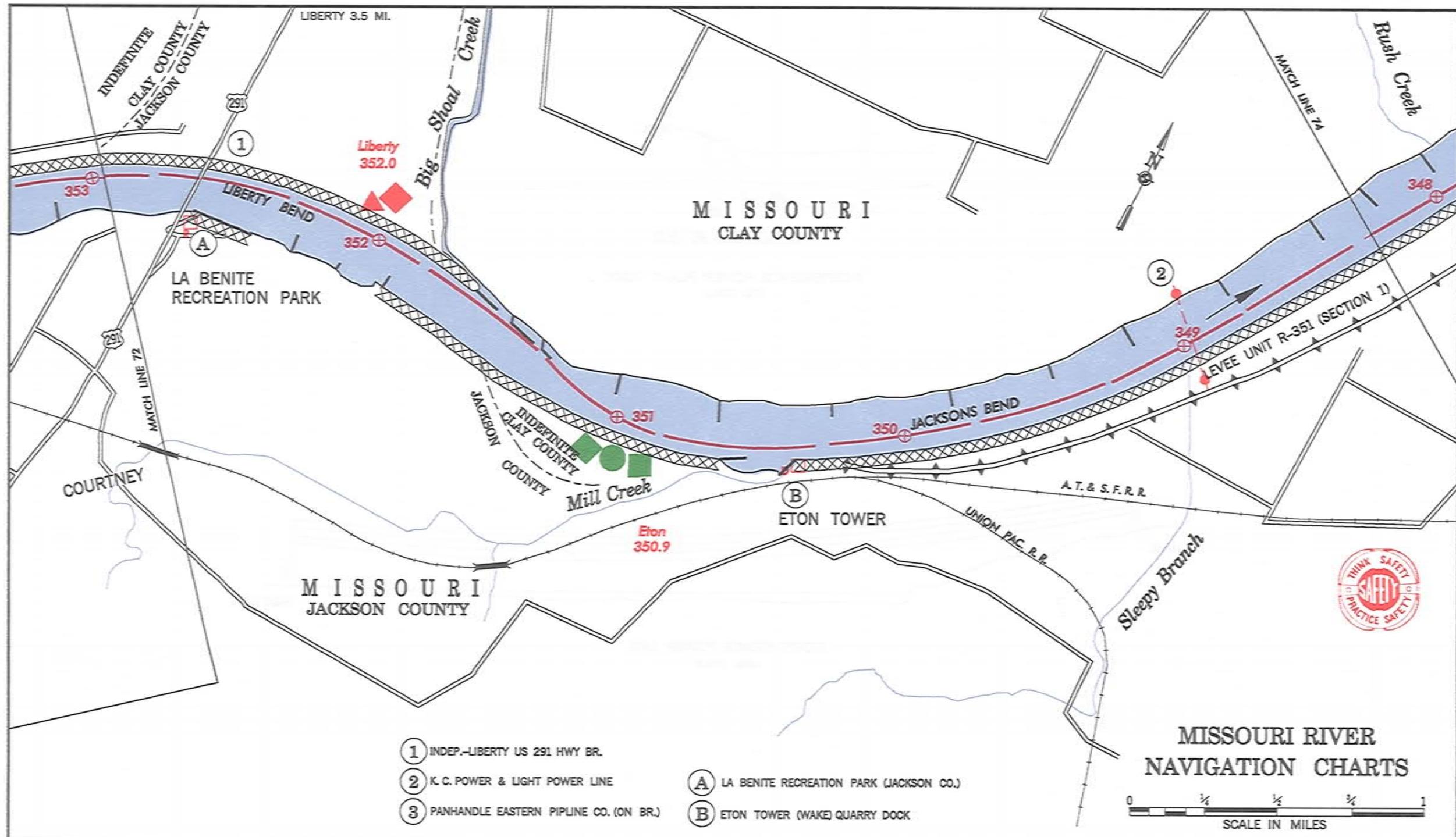
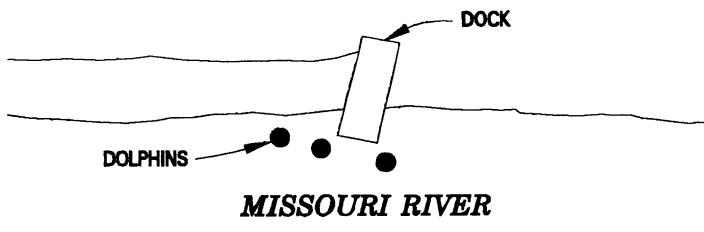
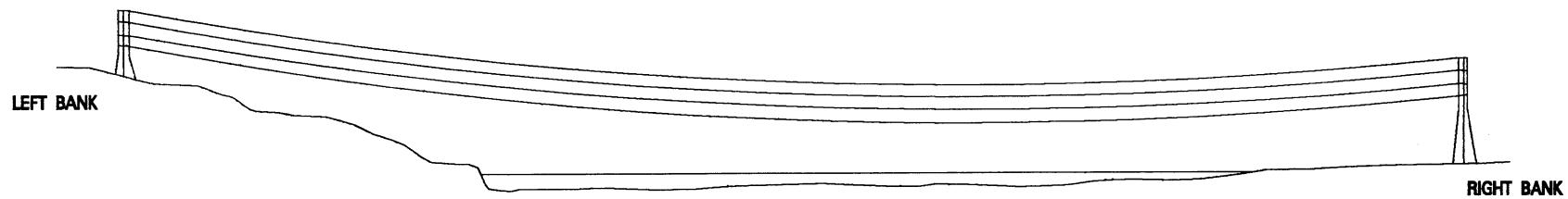


CHART NO. 73



MISSOURI RIVER

INDEPENDENCE POWER PLANT DOCK
Mile 345.3



INDEPENDENCE POWER LINE
Mile 344.9

MISSOURI RIVER NAVIGATION CHARTS



0 $\frac{1}{4}$ $\frac{1}{2}$ $\frac{3}{4}$ 1
SCALE IN MILES

MISSOURI
CLAY COUNTY

BURLINGTON NORTHERN INC.

Rush Creek
MATCH LINE 6

Rush Creek

345.9

346

345

345.3

INDEPENDENCE POWER PLANT

MISSOURI

MISSOURI CITY

Missouri City
344.0

JACKSON BEND

347

348

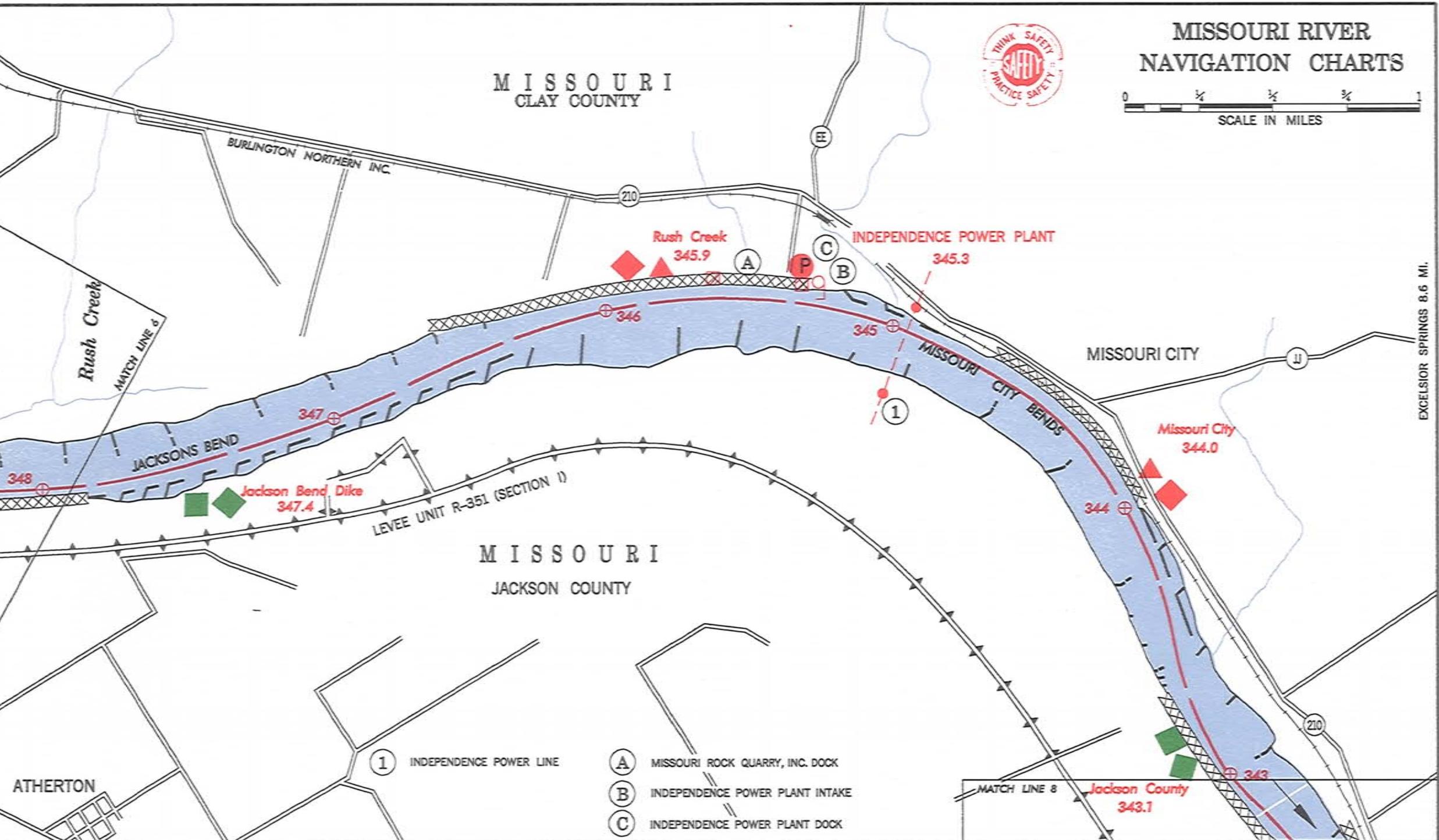
347.4

Jackson Bend Dike
LEVEE UNIT R-351 (SECTION 1)

MISSOURI

JACKSON COUNTY

EXCELSIOR SPRINGS 8.6 MI.



- (A) MISSOURI ROCK QUARRY, INC. DOCK
- (B) INDEPENDENCE POWER PLANT INTAKE
- (C) INDEPENDENCE POWER PLANT DOCK

CHART NO. 74