

October 16, 1997

Mr. Roger K. Wiebusch
Bridge Administrator
U.S. Coast Guard
1222 Spruce Street
St. Louis, Missouri 63103-2832

Dear Mr. Wiebusch:

Enclosed is an application by the Tennessee Valley Authority (TVA), 1101 Market Street, 2G Lookout Place, Chattanooga, Tennessee 37402-2801, for a new railroad bridge to be constructed across Emory River Mile 8.7, in Roane County, Tennessee, near Harriman. TVA is constructing the bridge to improve coal deliveries to its Kingston Fossil Plant.

On April 15, 1997, TVA and Corps of Engineers staff members met onsite to recommend the locations of the channel span and river support piers. These locations are shown on the enclosed sketches. The channel span will be 200 feet long with a vertical clearance of 32 feet above 50-year flood elevation 755.9. These clearances are adequate for commercial navigation on this stretch of waterway.

The bridge from abutment to abutment will cost approximately \$4.75 million. Costs for a similar low level bridge at this location that would provide only sufficient clearance to safely pass flood waters and drift have not been determined.

The bridge will have no significant effect on the environment. The enclosed Final Environmental Impact Statement (FEIS), Kingston Fossil Plant Alternative Coal Receiving Systems, dated January 1997, was filed with the Environmental Protection Agency on January 1, 1997. The Coast Guard was a cooperating agency in the preparation of the FEIS. Also enclosed is a copy of the Record of Decision. TVA is currently in the process of applying for a water quality certificate (Aquatic Resource Alteration Permit) from the state of Tennessee and a Section 404 permit from the Corps of Engineers.

No excavation is planned in connection with the project; however, approximately 1100-cubic yards of earth fill and about 70-cubic yards of riprap will be placed below the 100-year flood contour elevation 758.9. A list of the names and addresses of property owners adjacent to the proposed bridge and its approaches is also enclosed.

Mr. Roger K. Wiebusch
Page 2
October 16, 1997

There are no wildlife and waterfowl refuges, recreation areas, public parks, or historic sites in the vicinity of or in the way of the bridge and its approaches.

Legal authority for the bridge is found in the TVA Act of 1933. The laws of the state of Tennessee do not require us to obtain a state construction permit for this work.

This application has been prepared using the Coast Guard checklist. A copy of the completed checklist is enclosed.

Your office may call George G. Conner at (423) 632-7157 or me at (423) 751-6704 if additional information is needed to process our bridge permit request.

Sincerely,



H. L. Petty
Project Engineer

CCB:SRH

Enclosures

cc (Enclosures)

- W. G. Brock, WT 10C-K - w/o Encl 2
- G. G. Conner, WT 10C-K- w/o Encl 2
- L. K. Printz, LP 5D-C- w/o Encl 2
- RIMS, WR 4Q-C- w/o Encl 2

- Enclosures: (1) Original and 3 copies of the vicinity map and sketches
(2) Final EIS (2 copies)
(3) Record of Decision
(4) List of adjacent property owners
(5) Application checklist

Prepared by Carline C. Bryant, 632-7156.

j:/fossil/site/USCGpermit.doc

Adjacent Property Owners

Right bank

Upstream

Robert G. Farrell
Tennessee Valley Authority
Land Management Office
2009 Grubb Road
Lenoir City, TN 37771

Pearl B. Blaylock
Route 4, Box 315
Harriman, TN 37748

A. B. Long Quarries, Inc.
P.O. Box 11905
Knoxville, TN 37939

Downstream

Robert G. Farrell
Tennessee Valley Authority
Land Management Office
2009 Grubb Road
Lenoir City, TN 37771

Pearl B. Blaylock
Route 4, box 315
Harriman, TN 37748

Left Bank

Upstream

Robert G. Farrell
Tennessee Valley Authority
Land Management Office
2009 Grubb Road
Lenoir City, TN 37771

City of Harriman
P. O. Box 433
Harriman, TN 37748
Attn: Mayor Harold Wester

Downstream

Robert G. Farrell
Tennessee Valley Authority
Land Management Office
2009 Grubb Road
Lenoir City, TN 37771

City of Harriman
P. O. Box 433
Harriman, TN 37748
Attn: Mayor Harold Wester



Tennessee Valley Authority, 1101 Market Street, Chattanooga, Tennessee 37402-2801

December 17, 1997

U.S. Coast Guard
1222 Spruce Street
St. Louis, Missouri 63103-2832

Attn: Mr. Bruce L. McLaren, Project Manager

PROPOSED TVA RAILROAD BRIDGE AT EMORY RIVER MILE 8.7

This is in response to your November 28 letter requesting additional information needed for issuance of the Coast Guard's public notice on TVA's proposed railroad bridge across Emory River mile 8.7. Enclosed you will find the following:

- Copies of the revised permit application sketches (Sheets 2, 3, and 4 of 4). Sheets 2 and 3 are per your request with sheet 4 revised for consistency.
- A copy of TVA's 404 permit application submitted to the U. S. Army Corps of Engineers (USACE). The USACE will be forwarding this application to Tennessee for a Water Quality Certification; however, Tennessee has not yet issued this certification.
- A listing of the wild, scenic, and recreational rivers in the Tennessee Valley watershed which includes the state of Tennessee.

Your letter also requested information on the estimated cost of a similar low level bridge that would provide only sufficient clearance for the passage of flood waters and drift or an explanation of why such an estimate was not provided. A cost estimate for a similar low level bridge was not made because a low level bridge at this location would not be acceptable to TVA and the Corps of Engineers from the standpoint of navigation. There are three barge terminals located upstream of the site. Construction of a low level bridge would cut off access from these terminals to the Tennessee River navigation system. In addition, the site for the proposed bridge was chosen to take advantage of higher topography to facilitate obtaining the rail grade necessary to provide the required vertical clearance for the navigation span. If this was not a commercially navigable river, a low level bridge would be located so as to cross the river at a site where the river banks and approach topography were much lower in elevation.

Bruce L. McLaren
Page 2
December 17, 1997

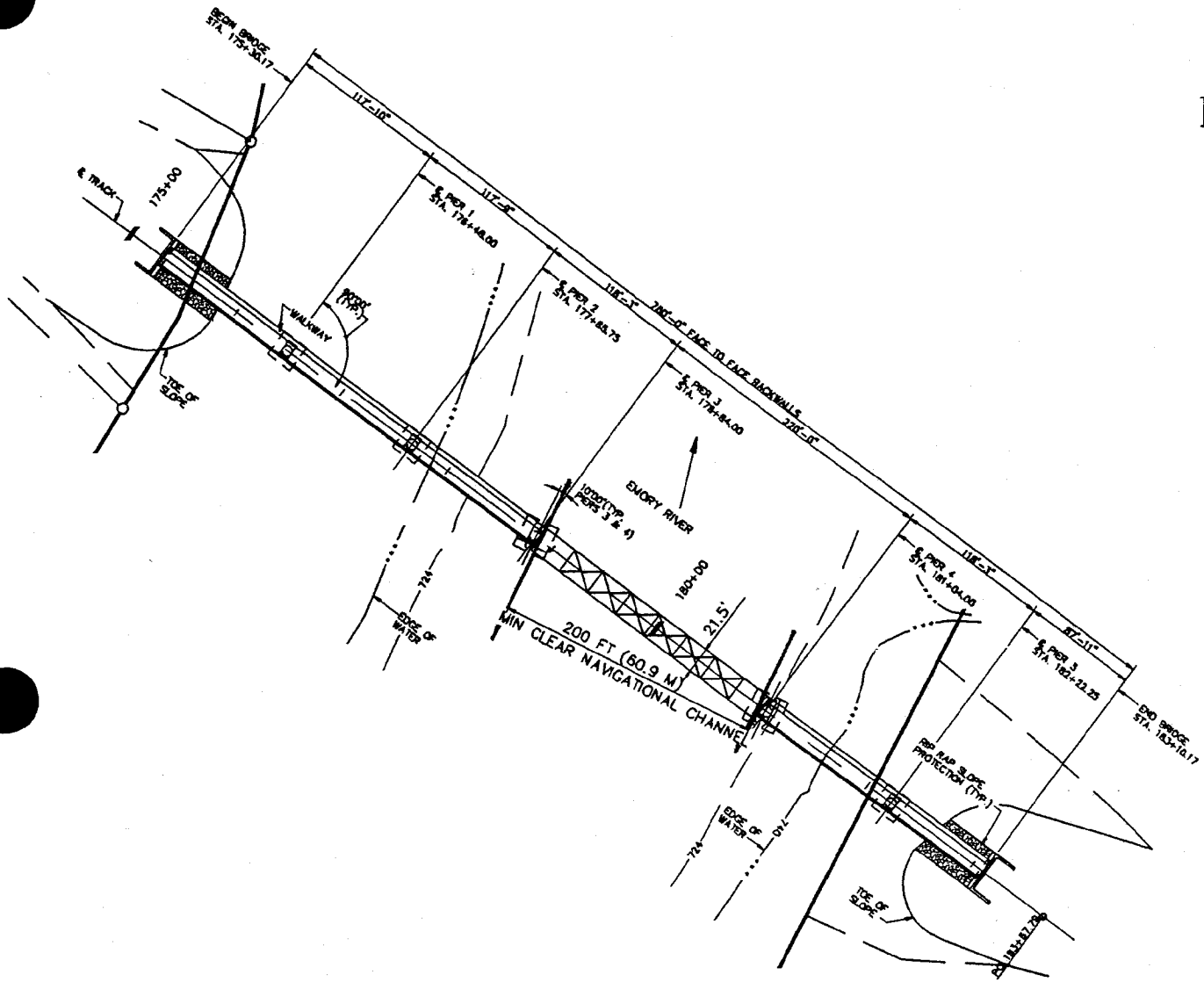
I hope this information is sufficient for your office to proceed with issuance of the public notice. You may call George G. Conner at (423) 632-7157 or me at (423) 751-6704 if any additional information is needed.

Sincerely,

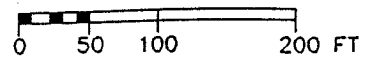


Harold L. Petty, P.E.
Project Engineer

Enclosures



PLAN

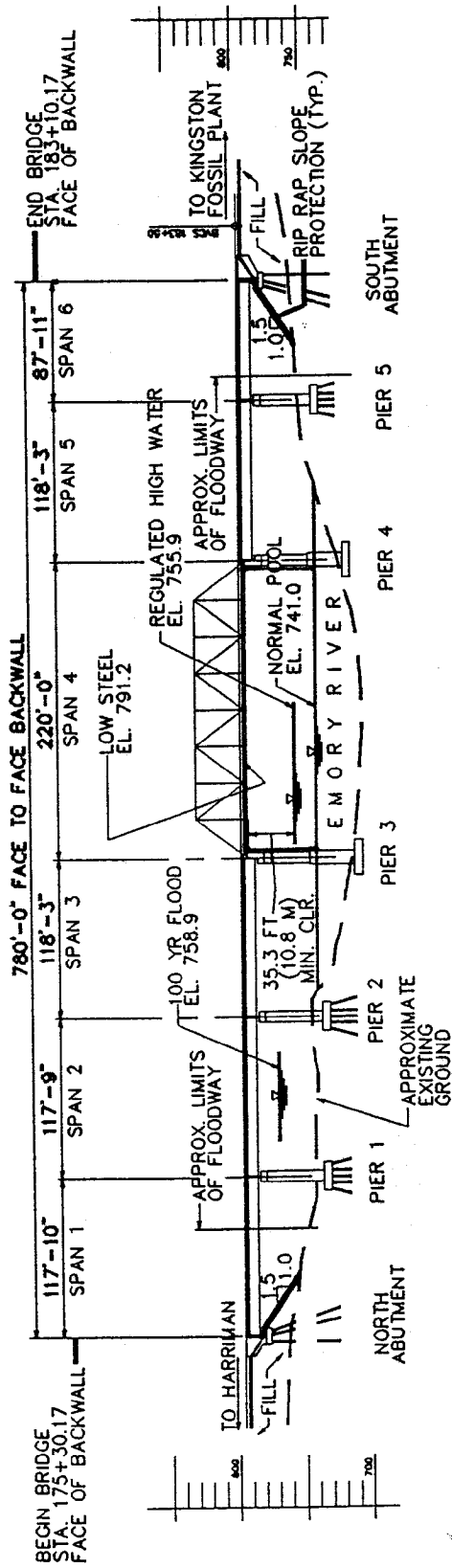


NOTE:
 NAVIGATION CHANNEL BOTTOM GRADE
 IS EL 724.0.

PROPOSED BRIDGE

over EMORY RIVER
 at ROANE COUNTY, TENNESSEE
 counties ROANE COUNTY, TENN.
 application by TENN. VALLEY AUTHORITY
 sheet 2 of 4 date 10-2-97

REVISED 12-15-97



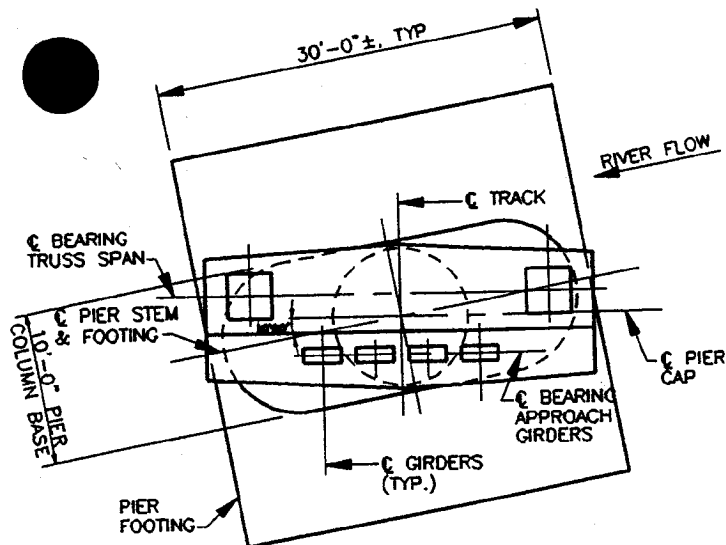
ELEVATION
SHOWN ALONG & TRACK

NOTE:
VERTICAL DATUM - NGVD 29

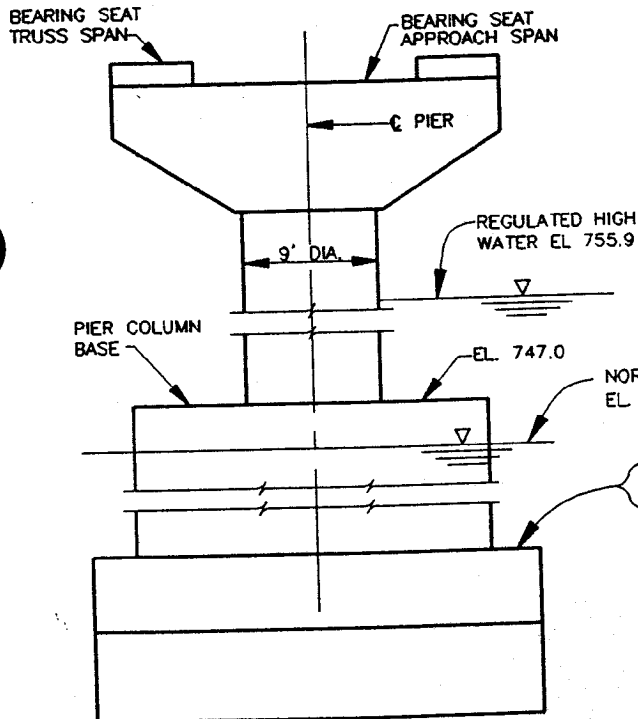
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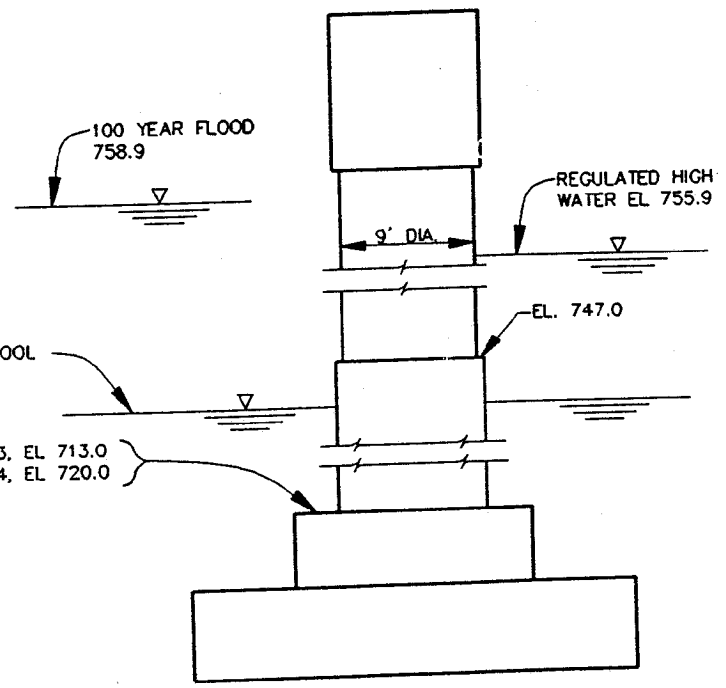
REVISED 12-15-97



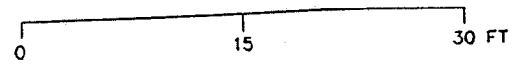
PLAN - CENTER SPAN PIERS



ELEVATION - CENTER SPAN PIERS



END VIEW - CENTER SPAN PIERS



- NOTES:
1. VERTICAL DATUM - NGVD 29
 2. NAVIGATION CHANNEL BOTTOM GRADE IS EL 724.0.

PROPOSED BRIDGE

over EMORY RIVER

at ROANE COUNTY, TENNESSEE

counties ROANE COUNTY, TENN.

application by TENN. VALLEY AUTHORITY

sheet 4 of 4 date 10-2-97

REVISION DATE 12-15-97

CHECKLIST
APPLICATIONS FOR COAST GUARD
BRIDGE PERMITS

The following checklist should be used to insure applications include all required information and documentation. The majority of applications received by the Second Coast Guard District are returned to applicants due to incomplete information resulting in needless delays in processing. In order to minimize delays, applicants should use this checklist as a guide in preparing an application and submit the completed checklist with the application. Copies of this checklist should be reproduced locally for submittal to the Coast Guard.

- APPLICATION LETTER & ENCLOSURES (See sample, Page 18)
- Checklist - Applications for USCG Bridge Permits
- Name of Applicant
- Applicant's Address
- Name of waterway to be bridged
- Bridge location (Miles ~~& Metric~~ above mouth of waterways)
- At/Nearest City, County & State
- Estimated cost of bridge
- Estimated cost of low level bridge at this location
- List of Property owners adjacent to bridge and its approaches
- Cubic yards of material to be excavated and filled below the 100-year flood contours

For Federal Aid Projects or U. S. Coast Guard not Lead Agency

- Two copies Final EIS, FONSI, or CE exclusion approved by lead agency
- Date Final EIS filed with Council on Environmental Quality or Environmental Protection Agency, as appropriate
- Project supported by FEIS submit Record of Decision (40 CFR 1505.2)

APPENDIX A

For Non-Federal Aid Projects, or U. S. Coast Guard is the Lead Agency for NEPA

N/A Environmental Assessment concerning impact of bridge and causally related parts of the total project under Coast Guard jurisdiction on the human environment (see Appendix G).

N/A Statement concerning use of Section 303 (formerly Section 4(f)) lands in application letter.

If Section 303 (formerly Section 4(f)) properties are involved prepared assessment required by Appendix I.

N/A Cite legal authority for bridge (usually General Bridge Act of 1946, as amended - See Bridge Administration Laws).

N/A Enclose all required state permits or a statement that none are required. (Permits from both states required for interstate bridges.)

N/A Enclose water quality certificate(s) for project, pursuant to FWPCA (WQC from both states required for interstate bridges).

N/A Applications signed by parties representing an applicant must include letter of evidence of authorization. (i.e., consulting engineers, etc.)

N/A Statement concerning planned disposition of any bridge(s) to be replaced by proposed bridge (e.g. bridge is be removed).

N/A Evidence of ownership of old bridge to be removed, or consent of owner(s) for removal.

N/A Statement that old bridge will be completely removed.

NOTE: The Coast Guard usually requires complete removal of bridge(s) to be replaced by the proposed bridge.

Exceptions:

N/A (1) Evidence (usually Section 10 permit) that appropriate District Engineer, Corps of Engineers, has approved retention of the bridge or portion of the bridge for some purpose other than a bridge.

N/A (2) If all parts of the old bridge are to be removed down to at least natural ground and/or the riverbed, proposed abutment and pier cut-off elevations may be submitted for approval.

N/A Plans of existing bridge.

Sheet 3 of 4

- N/A Show length of bridge
- N/A Show width of bridge and number of travel lanes
- N/A Dimension horizontal clearance in channel span(s) (feet & Meters)
- N/A Show elevations of low steel in channel span(s) (feet & Meters)
- N/A Graphic scale
- N/A North arrow
- N/A Name of bridge and year constructed
- N/A Owner of bridge

✓ PLANS (see Appendix B). NOTE: If more than one design is to be submitted for approval see Appendix C.

- ✓ Size 8½ X 11 inches (as few sheets as possible).
- ✓ Reproducible tracings (mylars preferred)
- ✓ Simple title block lower right hand corner each sheet: include proposal, i.e., proposed bridge, proposed reconstruction, proposed causeway, etc.; river; city; state; county; applicant; date plans prepared; sheet number i.e., sheet No. 1 of 3. River mile and ~~metric equivalent~~.
- ✓ One-inch margin top, each sheet, for fasteners.

✓ VICINITY MAP (small scale)

- ✓ Show major highways & rivers
- ✓ Show location of proposed bridge
- ✓ Show major communities
- N/A Show 303 (formerly 4(f)) lands, if any
- ✓ North arrow
- X Graphic scale

✓ LOCATION MAP (large scale)

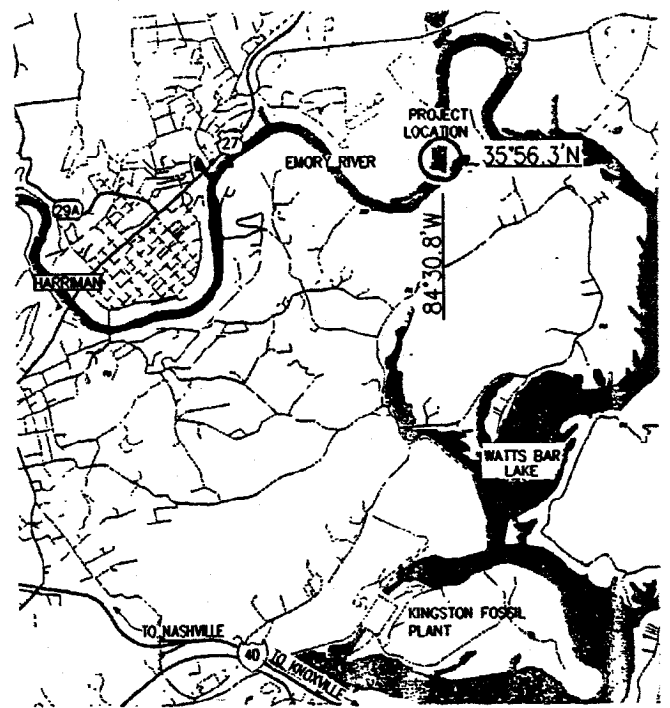
- ✓ Show all highways & rivers
- N/A Show local communities
- N/A Show existing bridges, docks, locks, dams, dikes, etc.
- N/A Show 303 (formerly 4(f)) lands, if any
- ✓ North arrow
- ✓ Graphic scale
- ✓ Flow arrow
- ✓ Soundings in feet & ~~metric~~ below established government datum planes (usually normal pool)
- N/A Label bridge(s) to be removed, if any

✓ ELEVATION VIEW OF PROPOSED BRIDGE FROM ABUTMENT TO ABUTMENT

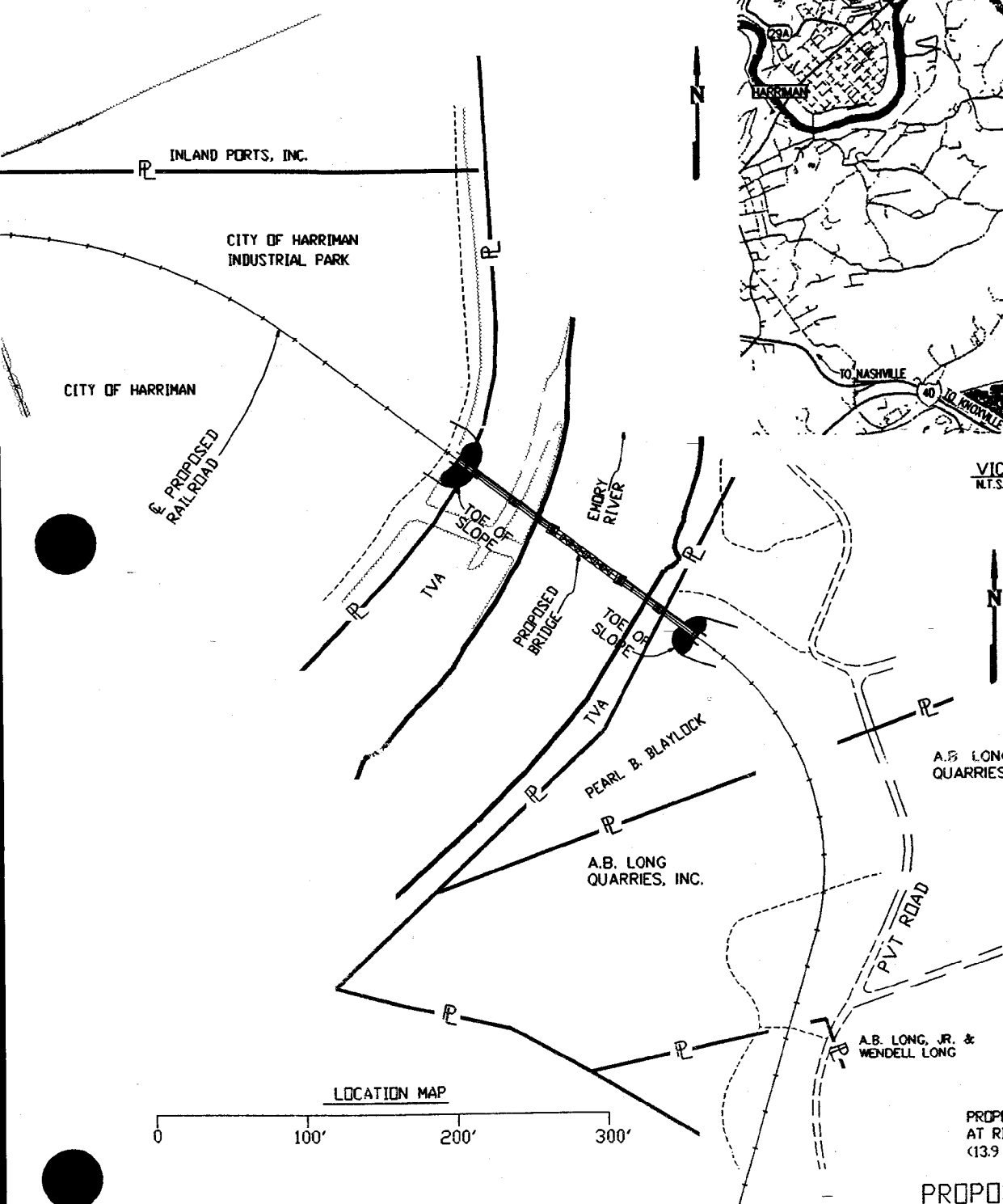
- ✓ Dimension, feet ~~and meters~~, minimum vertical clearance in navigation span(s) above normal pool or record low water 50
- ✓ Indicate ~~2% flowline elevation, 100-year flood, and record high water~~. Regulated high water elevation should be included when appropriate.
- ✓ Graphic scales
- ✓ Show elevation of low steel, in figures, (feet and meters) in channel span(s) at channelward faces of channel piers, ~~25 feet from each pier~~ and at center of span.
- ✓ Cross section of watercourse.
- N/A If bridge is movable, dimension (feet and meters) vertical clearance in open and closed positions.
- ✓ Identify datum used

- ✓ PLAN VIEW OF PROPOSED BRIDGE FROM ABUTMENT TO ABUTMENT
- ✓ North arrow
 - ✓ Graphic scales
 - ✓ Flow arrow
 - ✓ Length of bridge
 - ✓ Width of bridge ~~and number of travel lanes~~
 - N/A Dimension distance between bridges for dual bridges
 - N/A Show angle between axis of bridge and channel or flow of river, if applicable
 - N/A Dimension size and location of any proposed pier protection cells, sheerfences, fenders, etc.
 - ✓ Dimension minimum horizontal clearance in feet ~~& meters~~ between channel piers - or pier protection - as measured normal to the axis of the channel or flow of river.
 - ✓ Indicate river mile ~~and kilometer~~ location of bridge as measured upstream from mouth of waterway except Ohio River and Upper Mississippi River. Ohio River miles are measured downstream from Pittsburgh, Pennsylvania. Mileage on the Upper Mississippi River is measured upstream from Cairo, Illinois.

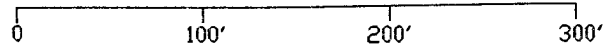
APPENDIX A-4



VICINITY MAP
N.T.S.



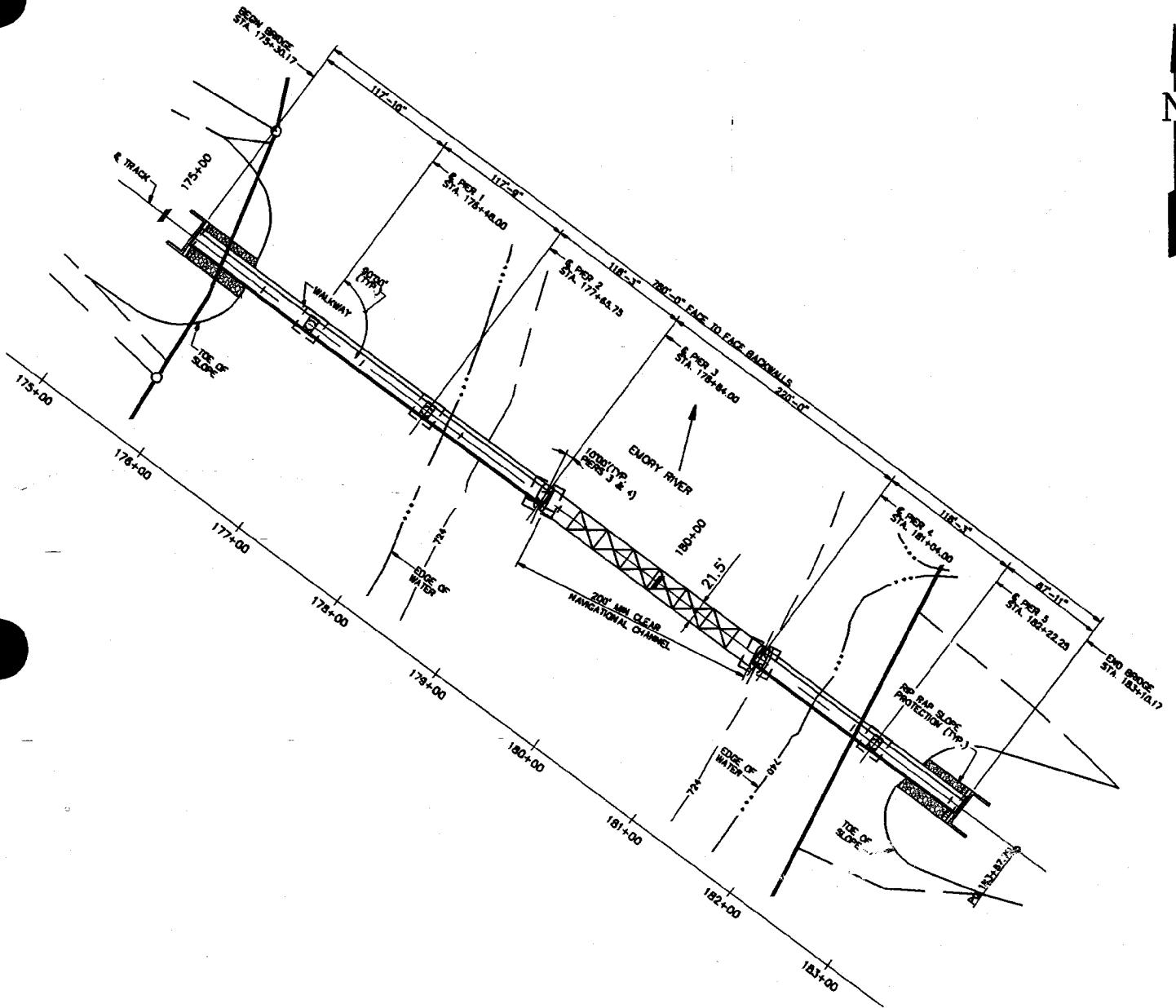
LOCATION MAP



PL = PROPERTY LINES.

PROPOSED BRIDGE TO BE LOCATED
AT RIVER MILE 8.7
(13.9 KILOMETERS)

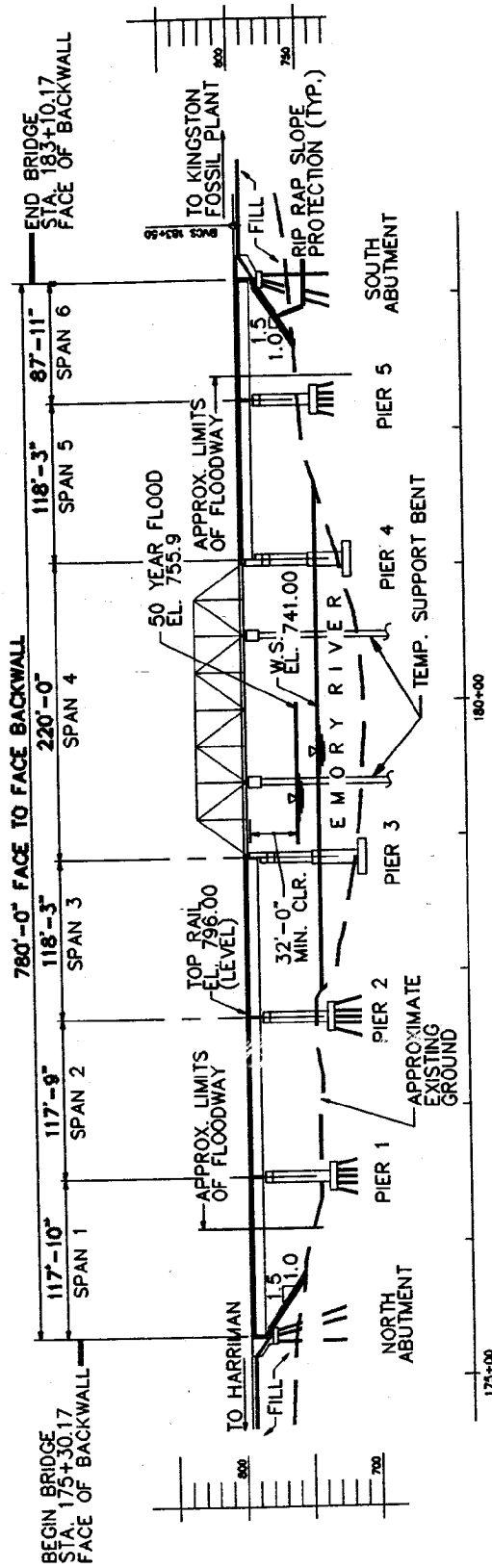
PROPOSED BRIDGE
over EMORY RIVER
at ROANE COUNTY, TENNESSEE
counties ROANE COUNTY, TENN.
application by TENN. VALLEY AUTHORITY
sheet 1 of 4 date 10-2-97



PLAN

NOTE:
NAVIGATION CHANNEL BOTTOM GRADE
IS EL 724.00.

PROPOSED BRIDGE
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sheet 2 of 4 date 10-2-97

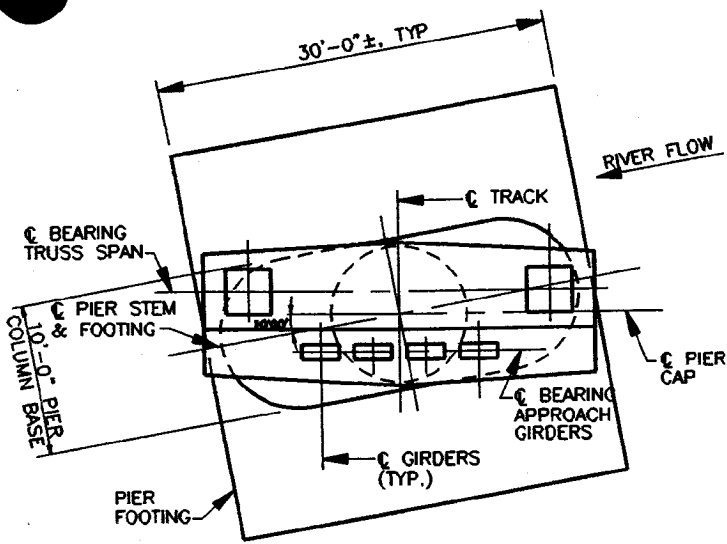


NOTE:
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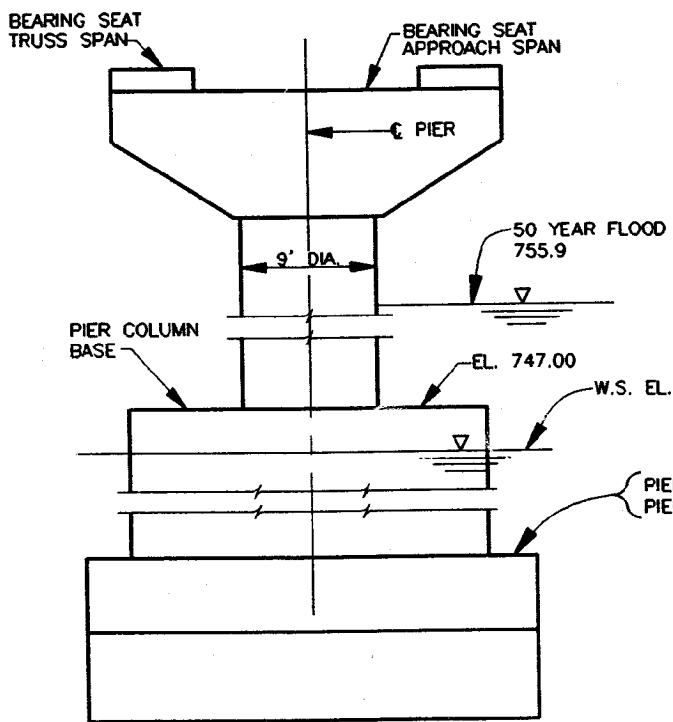
ELEVATION
SHOWN ALONG & TRACK

PROPOSED BRIDGE

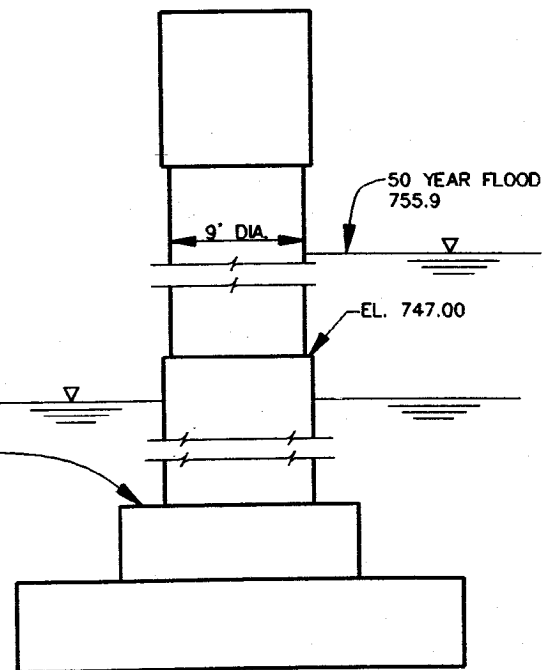
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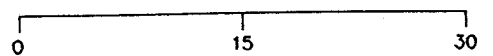
PLAN - CENTER SPAN PIERS



ELEVATION - CENTER SPAN PIERS



END VIEW - CENTER SPAN PIERS



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