

PUBLIC NOTICE

PERMIT APPLICATION NUMBER: NRS 06.282 – 06.282DD

APPLICANT: Tennessee Department of Transportation
Environmental Planning and Permits Division
Suite 900, James K. Polk Building
505 Deaderick Street
Nashville, Tennessee 37243-0338
615-253-2477

LOCATION: The proposed aquatic resource alterations are located along a proposed 5.337-mile segment of State Route (SR) 15 in Hardeman and McNairy Counties. The segment begins at McClintock Road west of Hornsby, TN in Hardeman County and ends just west of SR 225 in McNairy County. A portion of the segment bypasses Hornsby to the south.

WATERSHED DESCRIPTION: The project begins west of Hornsby in the Hatchie Watershed (HUC 08010208) and ends in the Little Hatchie Watershed (HUC08010207). There are a total of 22 streams and 5 wetlands present within the proposed SR 15 segment. All wetlands have been assessed as Tier I (not high quality). A total of 18 of the 22 streams have been assessed as Tier I. Land use in the immediate area of the alignment is predominately agriculture and some residential.

PROJECT DESCRIPTION: The applicant proposes to impact a total of 22 streams and 5 wetlands in order to accommodate a new segment of SR 15 in Hardeman and McNairy Counties.

NRS 06.282; Station 101± to sta. 126±; wetland (W-1): Permanently fill 7.27 ac. of wetland and temporarily impact 0.10 ac. of wetland. The applicant proposes to compensate the wetland fill by purchasing, at a 2:1 ratio, 14.54 of available credits from the pending Hatchie River Wetland Mitigation Bank.

NRS 06.282A & B Station 101± to sta. 126±; unnamed tributary to Dog Tail Creek: Relocate 3,100 ft. of stream into 3,000 ft. of constructed channel. The constructed channel would consist of 78 ft. of box culvert (6 ft. x 5 ft.) and 50 ft. of riprap at the outlet of the box culvert. Associated with the relocation is the installation of a 4 in. gas line at least 3 ft. below the tributary's bed. The relocation would result in 100 ft. of stream loss. The applicant has proposed a payment to the Tennessee Stream Mitigation Program (TSMP) in the amount of \$20,000.00 to compensate for the stream loss.

NRS 06.282C & D; Station 193± to 196± & 194±; wetland (W-3) & unnamed tributary to Wade Creek: Permanently fill 1.25 ac. of wetland and 0.20 ac. of temporarily impact 0.10 ac. of wetland. Also proposed is the installation of 247 ft. of box culvert (10 ft. x 4 ft.) and 95 ft. of open stream (44 ft. is riprap channel). The applicant has proposed a payment to the TSMP in the amount of \$48,000.00 to compensate for the box culvert. Only 240 ft. of culvert is being compensated since the existing stream was only 335 ft. long. The permanent wetland impact would be compensated for by debiting, at a 2:1 ratio, 2.5 of available credits from the pending Hatchie River Wetland Mitigation Bank.

NRS 06.282E, F, G, & H; Station 318± to 325± & 319±, unnamed tributary to Little Hatchie Creek and wetland (W-4): Permanently fill 6.58 ac. of wetland and temporarily impact 1.92 ac. of wetland. Install 289 ft. of 2-barrel box bridge (12 ft. x 8 ft.), 25 ft. of riprap lined channel at the inlet and 67 ft. of riprap lined channel at the outlet. The permanent wetland impact would be compensated for by debiting, at a 4:1 ratio, 26.32 of available credits from the pending Hatchie River Wetland Bank. The 289 ft. of

box bridge would be compensated for by payment to the TSMP in the amount of \$57,600.00. Only 288 ft. of box bridge is being compensated since the existing stream is only 380 ft. long. The 92 ft. of riprap lined channel would also be compensated for by payment to the TSMP in the amount of \$10,000.00 (67 ft. at a 0.75:1 ratio). Associated with the box bridge and wetland impact is the installation of a 10 in. water line at a minimum of 2 ft. below the creek bed and 15 ft. of bank stabilization.

NRS 06.282I & J; Station 133±; Dog Tail Creek: The applicant proposes to install 226 ft. of 3-barrel box bridge (16 ft. x 10 ft.) and 50 ft. of riprap lined channel at both the inlet and outlet ends of the bridge. The 226 ft. of box bridge and 19 ft. of stream loss would be compensated for by payment to the TSMP in the amount of \$49,000.00. Associated with the bridge installation is the removal of the existing bridge under the existing SR 15.

NRS 06.282K; Station 153±; unnamed tributary to Wade Creek: Installation of 170 ft. of 2-barrel box bridge (10 ft. x 4 ft. barrels) and 84 ft. of open channel (6 ft. is riprap lined and 78 ft. is a transition channel).

NRS 06.282L; Station 162±, unnamed tributary to Wade Creek: Installation of 225 ft. of 30 in. concrete pipe, 20 ft. of endwall, and 5 ft. of riprap lined channel at the outlet. Only 245 ft. of the pipe would be compensated for because only 250 ft. of stream exists. The pipe would be compensated for by payment to the TSMP in the amount of \$49,000.00.

NRS 06.282M & N; Station 174±; Wade Creek: Installation of 190 ft. of 3-barrel box bridge (16 ft. x 14 ft. barrels), 81 ft. of riprap lined channel at the inlet, and 50 ft. of riprap lined channel at the outlet. Associated with the box bridge construction is the removal of the existing bridge just upstream. The 81 ft. of riprap lined channel would be compensated for by payment to the TSMP in the amount of \$12,200.00 (81 ft. at a 0.75:1 ratio).

NRS 06.282O; Station 178± to 180±; wetland (W-2): Permanently fill 0.18 ac. of wetland and temporarily impact 0.20 ac. of wetland. The permanent wetland impact would be compensated for by debiting, at a 2:1 ratio, 0.36 of available credits from the pending Hatchie River Wetland Bank.

NRS 06.282P; Station 212±; unnamed tributary to Wade Creek: Installation of 254 ft. of 48 in. concrete pipe, 36 ft. of endwalls, 38 ft. of riprap lined channel at the inlet, and 8 ft. of riprap lined channel at the outlet. The 254 ft. of pipe, 36 ft. of endwalls, and 22 ft. of stream loss would be compensated for by payment to the TSMP in the amount of \$62,400.00.

NRS 06.282Q; Station 218±; unnamed tributary to Wade Creek: Installation of 264 ft. of 36 in. concrete pipe, 40 ft. of endwalls, 30 ft. of riprap lined channel and 105 feet of channel liner. The 264 ft. of pipe, 40 ft. of enwall and 116 ft. of stream loss would be compensated for by payment to the TSMP in the amount of \$84,000.00. The 30 ft. of riprap lined channel would be compensated for by payment to the TSMP in the amount of \$4,600.00 (30 ft. at a 0.75:1 ratio). The 105 ft. of channel liner would be compensated for by payment to the TSMP in the amount of \$10,600.00 (105 ft. at a 0.50:1 ratio).

NRS 06.282R; Station 234±; unnamed tributary to Little Hatchie Creek: Installation of 216 ft. of box bridge (10 ft. x 4 ft.), 73 ft. of riprap lined channel at the inlet, and 10 ft. of riprap lined channel at the outlet. The 216 ft. of box bridge and 51 ft. of stream loss would be compensated by payment to the TSMP in the amount of \$53,400.00. The 73 ft. of riprap lined channel would be compensated for by payment to the TSMP in the amount of \$11,000.00 (73 ft. at a 0.75:1 ratio).

NRS 06.282S, Station 239±; unnamed tributary to Little Hatchie Creek: Installation of 164 ft. of 42 in. concrete pipe, 45 ft. of endwalls, 58 ft. of riprap lined channel at the inlet and 7 ft. of riprap lined

channel at the outlet. The 209 ft. of pipe would be compensated by payment to the TSMP in the amount of \$41,800.00. The 58 ft. of riprap lined channel would be compensated for by payment to the TSMP in the amount of \$8,800.00 (58 ft. at a 0.75:1 ratio).

NRS 06.282T; Station 243±; unnamed tributary: Installation of 141 ft. of 42 in. concrete pipe, 54 ft. of endwalls and 7 ft. of riprap lined channel.

NRS 06.282U; Station 13±(Crafts Road); unnamed tributary: Installation of 45 ft. of 36 in. concrete pipe, 48 ft. of endwalls, and 20 ft. of riprap at the outlet.

NRS 06.282V; Station 262±; unnamed tributary to Little Hatchie Creek: Installation of 206 ft. of concrete box culvert (8 ft. x 8 ft.), 52 ft. of riprap lined channel at the inlet and 48 ft. at the outlet of the culvert. The 206 ft. of culvert and 34 ft. of stream loss would be compensated for by payment to the TSMP in the amount of \$48,000.00. The 52 ft. of riprap lined channel would be compensated for by payment to the TSMP in the amount of \$7,800.00.

NRS 06.282W; Station 281±; unnamed tributary to Fish Branch: Installation of 355 ft. of 60 in. concrete pipe and 74 ft. of riprap lined channel at the inlet. The 355 ft. of pipe and 43 ft. of stream loss would be compensated by payment to the TSMP in the amount of \$79,600.00. The 74 ft. of riprap lined channel would be compensated for by payment to the TSMP in the amount of \$11,200.00 (74 ft. at a 0.75:1 ratio).

NRS 06.282X, Station 293±; Fish Branch: Installation of 232 ft. of 2-barrel concrete box bridge (10 ft. x 8 ft. barrels), 20 ft. of riprap lined channel at the outlet, and 51 ft. of riprap lined channel at the inlet. The 232 ft. of box bridge would be compensated for by payment to the TSMP in the amount of \$46,400.00. The 51 ft. of riprap lined channel would be compensated by payment to the TSMP in the amount of \$7,600.00 (51 ft. at a 0.75:1 ratio).

NRS 06.282Y & Z; Station 350±; unnamed tributary: Installation of 373 ft. of concrete box culvert (8ft. x 6ft.) and 54 ft. of riprap lined channel at the inlet. The 373 ft. of culvert and 17 ft. of stream loss would be compensated for by payment to the TSMP in the amount of \$78,000.00. The 54 ft. of riprap channel would be compensated for by payment to the TSMP in the amount of \$8,200.00 (54 ft. at a 0.75:1 ratio). Associated with the culvert installation is the installation of a new 10 in. water line at a minimum depth of 2 ft. below creek bed.

NRS 06.282AA & BB; Station 354±, unnamed tributary and wetland (W-5): Permanently fill 0.38 ac. of wetland. Installation of 268 ft. of 36 in. concrete pipe, 28 ft. of endwalls, and 6 ft. of riprap lined channel. The permanent wetland impact would be compensated for by debiting, at a 2:1 ratio, 0.76 of available credits from the pending Hatchie River Wetland Bank. The 268 ft. of pipe, 28 ft. of endwalls, and 33 ft. of stream loss would be compensated for by payment to the TSMP in the amount of \$65,800.00. Associated with the pipe installation is the installation of a new 10 in. water line at a minimum of 2 ft. below the creek bed.

NRS 06.282CC & DD; Station 363±; unnamed tributary: Installation of 455 ft. of 54 in. concrete pipe, 76 ft. of riprap lined channel at the outlet, and 8 ft. of riprap at the inlet. The 455 ft. of pipe would be compensated for by payment to the TSMP in the amount of \$91,000.00. The 76 ft. of riprap would be compensated for by payment to the TSMP in the amount of \$11,400.00 (76 ft. at a 0.75:1 ratio). Associated with the pipe installation is the installation of a new 10 n. water line at a minimum of 2 ft. below the creek bed and a new 6 in. gas line at a minimum of 3 ft. below the creek bed.

Mitigation Overview: The applicant has proposed to compensate the stream impacts listed above by making a payment to the TSMP in the amount of \$977,400.00. The wetland impacts would be compensated for by debiting a total of 44.48 of available credits from the pending Hatchie River Wetland Bank.

In accordance with the Tennessee Antidegradation Statement (Rule 1200-4-3-.06), the division has determined that the proposed activities at Station 153±, 243±, and 13± (Crafts Rd.) will not result in degradation to water quality.

USGS TOPOGRAPHIC QUADRANGLE: Hornsby, TN (440 – NE)

PERMIT COORDINATOR: Trent Thomas

No decision has been made whether to issue or deny this permit. The purpose of this notice is to inform interested parties of this permit application and to ask for comments and information necessary to determine possible impacts to water quality. Persons wishing to comment on the proposal are invited to submit written comments to the department. Written comments must be received within **thirty days of the date that this notice is posted**. Comments will become part of the record and will be considered in the final decision. The applicant's name and permit number should be referenced.

Interested persons may also request in writing that the department hold a public hearing on this application. The request must be filed within the comment period, indicate the interest of the person requesting it, the reasons that the hearing is warranted, and the water quality issues being raised. When there is sufficient public interest in water quality issues, the department will hold a public hearing.

The permit application, supporting documentation including detailed plans and maps, and related comments are available at the department's address for review and/or copying. The department's address is:

Tennessee Department of Environment & Conservation
Division of Water Pollution Control, Natural Resources Section
7th Floor L & C Annex
401 Church Street
Nashville, TN 37243

In deciding whether to issue or deny a permit, the department will consider all comments on record and the requirements of applicable federal and state laws.

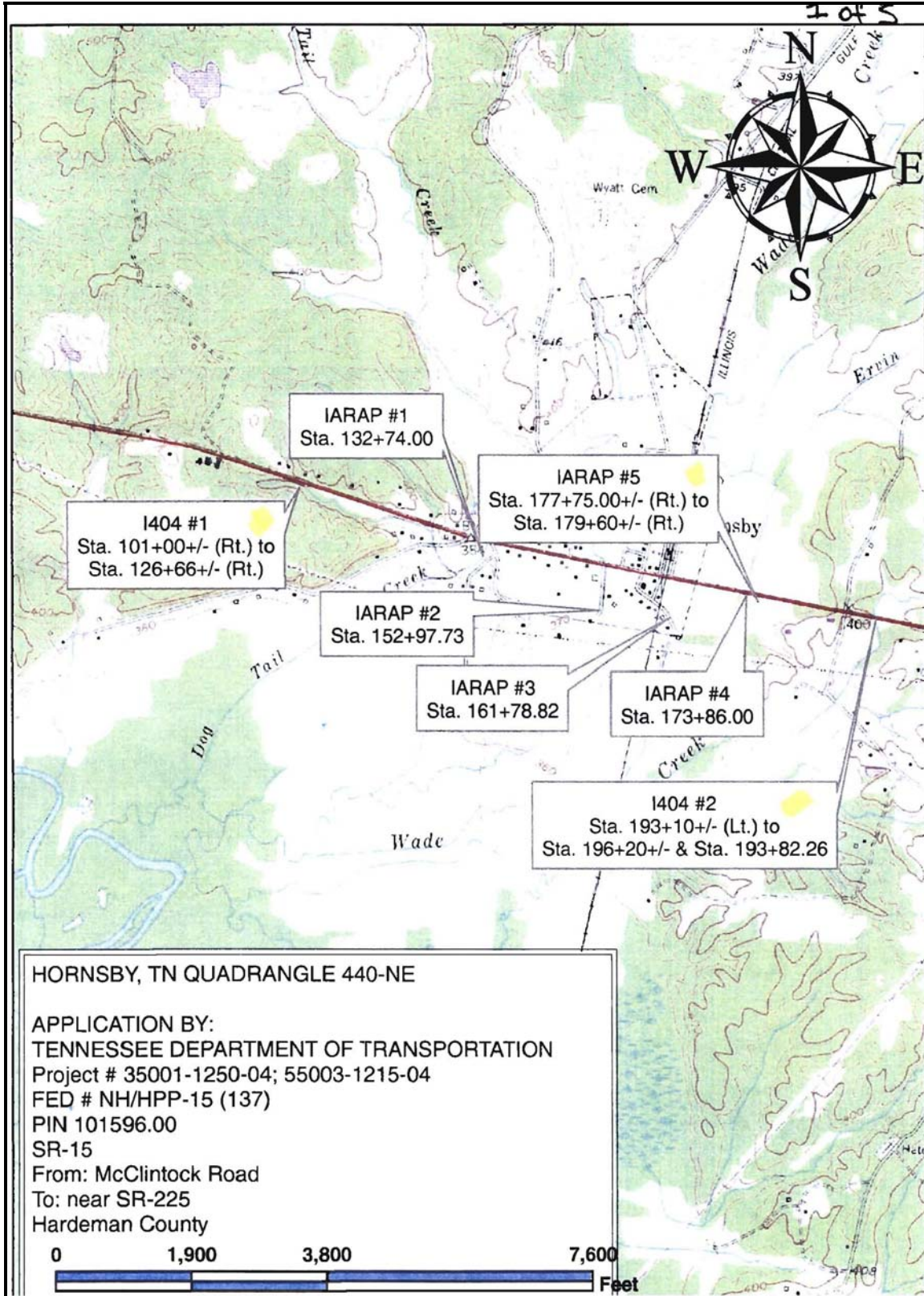


Figure 1: Topographic map of proposed alignment and impacts

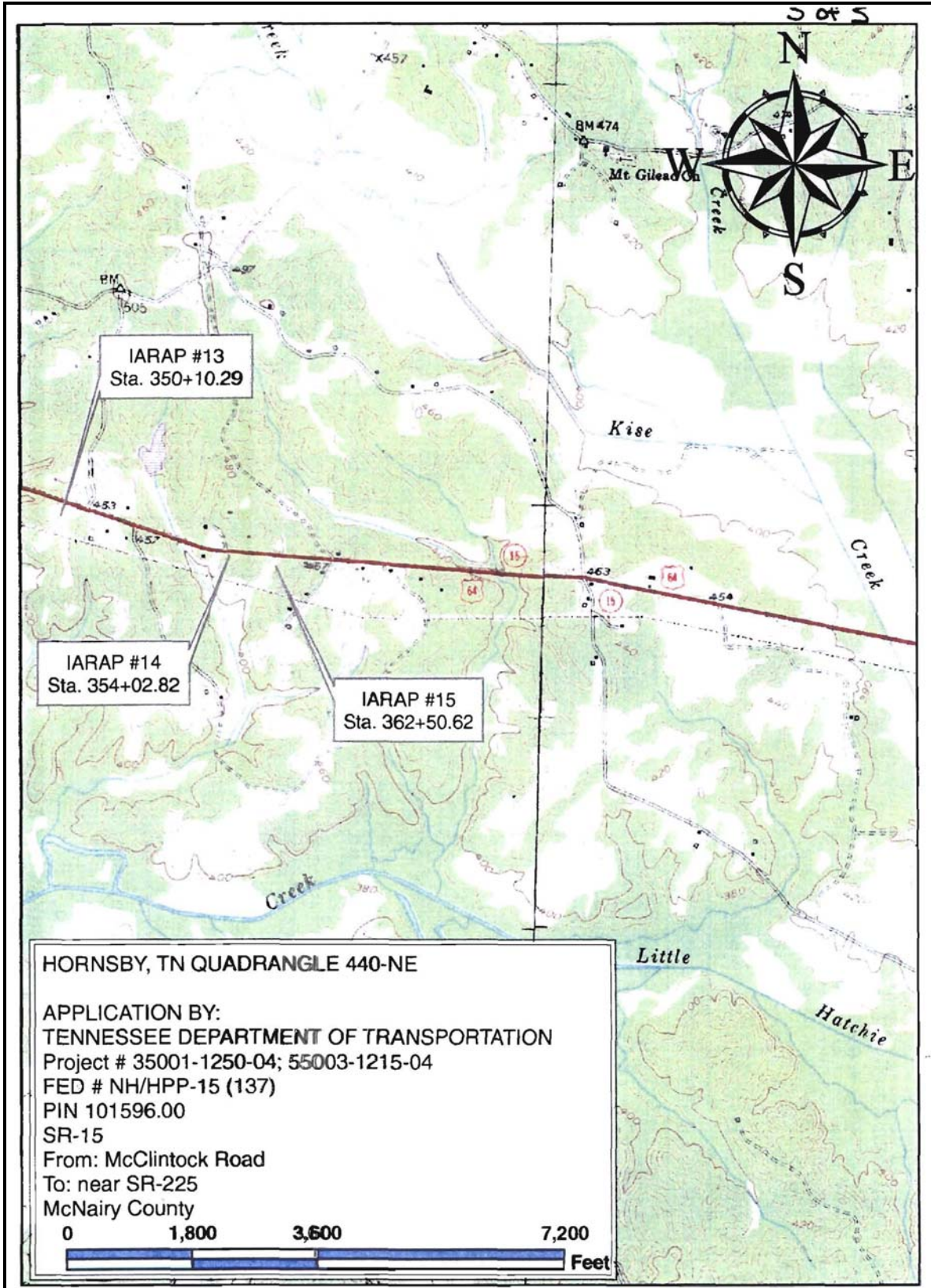


Figure 2: Topographic map of proposed alignment and impacts

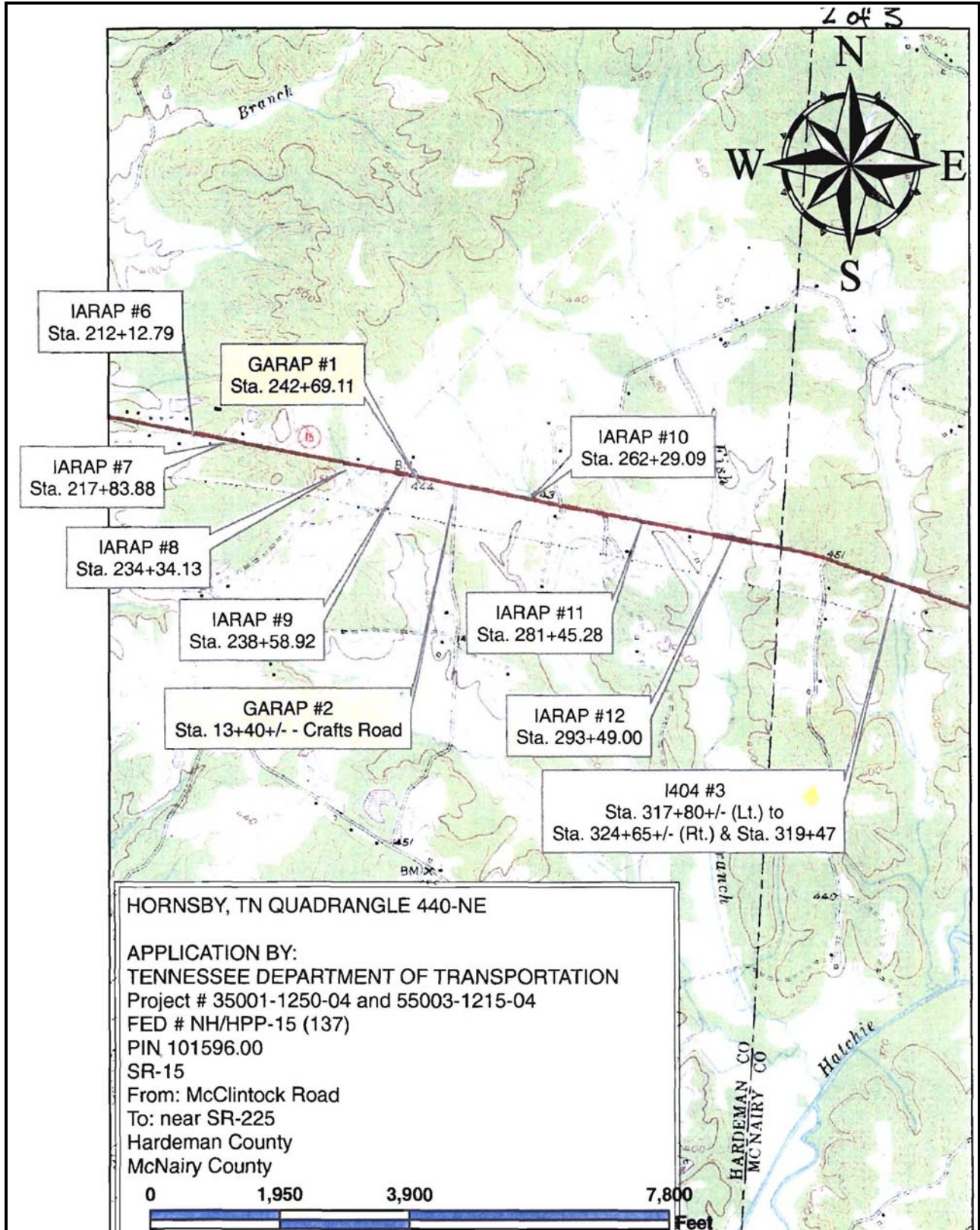


Figure 3: Topographic map of proposed alignment and impacts