Public Notice

US Army Corps of Engineers®

Nashville District

Public Notice No. **04-73** Date: **October 13, 2004**

Application No. **2004-00305**

Please address all comments to:
Nashville District Corps of Engineers, Regulatory Branch
(Attn: David Baldridge)
3701 Bell Road, Nashville, TN 37214
david.e.baldridge@lrn02.usace.army.mil

SUBJECT: Proposed Fill Associated with the Construction of a Pedestrian Trail, Bank Stabilization, and Culvert Installation, Drakes Creek Mile 5.8, City of Hendersonville, Sumner County Tennessee

TO ALL CONCERNED: The application described below has been submitted for a Department of the Army Permit pursuant to **Section 404 of the Clean Water Act** (CWA). Before a permit can be issued, certification must be provided by the Tennessee Department of Environment & Conservation, pursuant to Section 401(a)(1) of the CWA, that applicable water quality standards would not be violated. By copy of this notice, the applicant hereby applies for the required certification.

APPLICANT: **City of Hendersonville**
Mr. Gerald Horton, Director of Public Works
Public Works Department
1 Executive Park Drive
Hendersonville, TN 37075
Phone: (615) 822-1016

LOCATION: Drakes Creek Mile 5.8 Right Bank, a Tributary to The Cumberland River at Mile 222.1 Right Bank, Old Hickory Lake. USGS Quad Map Hendersonville, Tennessee; Latitude N36°19’19. 84”, Longitude W86°36’16. 43”.

DESCRIPTION: The proposed action is the placement of rock fill to provide bank stabilization for the creek bank and a base for a 10-foot wide concrete pedestrian trail along 670 linear feet (LF) of Drakes Creek (see attached map and drawings). The proposed project would begin at the back of the lot at 267 Southburn Drive in Hendersonville, TN, proceed downstream along the right descending bank and pass under the existing Seaboard railroad bridge. The proposed trail would then connect to an existing pedestrian trail at

Drakes Creek Park. A stream crossing is also proposed which would involve the placement of a box culvert in an unnamed tributary to Drakes Creek at mile 6 on the right descending bank.

Drakes Creek is located within the Old Hickory Lake Watershed. The immediate area of the project borders a subdivision along Southburn Drive and Drakes Creek Park. The streambed consists primarily of bedrock with some areas of sedimentation. The proposed project area is currently vegetated with a mixture of hardwood trees and grassy lawns at the back of adjacent private home lots.

Plans of the proposed work are attached to this notice.

The decision whether to issue a permit would be based on an evaluation of the probable impacts including cumulative impacts of the activity on the public interest. That decision would reflect the national concern for both protection and utilization of important resources. The benefit which reasonably may be expected to accrue from the work must be balanced against its reasonably foreseeable detriments. All factors which may be relevant to the work would be considered including the cumulative effects thereof; among those are conservation, economics, aesthetics, general environmental concerns, wetlands, cultural values, fish and wildlife values, flood hazards, floodplain values, land use, navigation, shore erosion and accretion, recreation, water supply and conservation, water quality, energy needs, safety, food and fiber production, mineral needs, considerations of property ownership, and, in general, the needs and welfare of the people. In addition, the evaluation of the impact of the activity on the public interest would include application of the guidelines promulgated by the Administrator, Environmental Protection Agency, under authority of Section 404(b)(1) of the CWA (40 CFR Part 230). A permit would be granted unless the District Engineer determines that it would be contrary to the public interest.

The Corps of Engineers is soliciting comments from the public; federal, state, and local agencies and officials; Indian Tribes; and other interested parties in order to consider and evaluate the impacts of this proposed activity. Any comments received would be considered by the Corps of Engineers to determine whether to issue, modify, condition, or deny a permit for this proposal. To make this decision, comments are used to assess impacts on endangered species, historic properties, water quality, general environmental effects, and the other public interest factors listed above. Comments are used in the preparation of an Environmental Assessment and/or an Environmental Impact Statement pursuant to the National Environmental Policy Act. Comments are also

used to determine the need for a public hearing and to determine the overall public interest of the proposed activity.

An Environmental Assessment would be prepared by this office prior to a final decision concerning issuance or denial of the requested Department of the Army Permit.

The National Register of Historic Places has been consulted and no properties listed in or eligible for the National Register are known which would be affected by the proposed work. This review constitutes the full extent of cultural resources investigations unless comment to this notice is received documenting that significant sites or properties exist which may be affected by this work, or that adequately documents that a potential exists for the location of significant sites or properties within the permit area. Copies of this notice are being sent to the office of the State Historic Preservation Officer.

Based on available information, the proposed work would not destroy or endanger any federally-listed, threatened, or endangered species or their critical habitats, as identified under the Endangered Species Act. Therefore, we have reached a no effect determination and initiation of formal consultation procedures with the U.S. Fish and Wildlife Service is not planned at this time.

Other federal, state, and/or local approvals required for the proposed work are as follows:

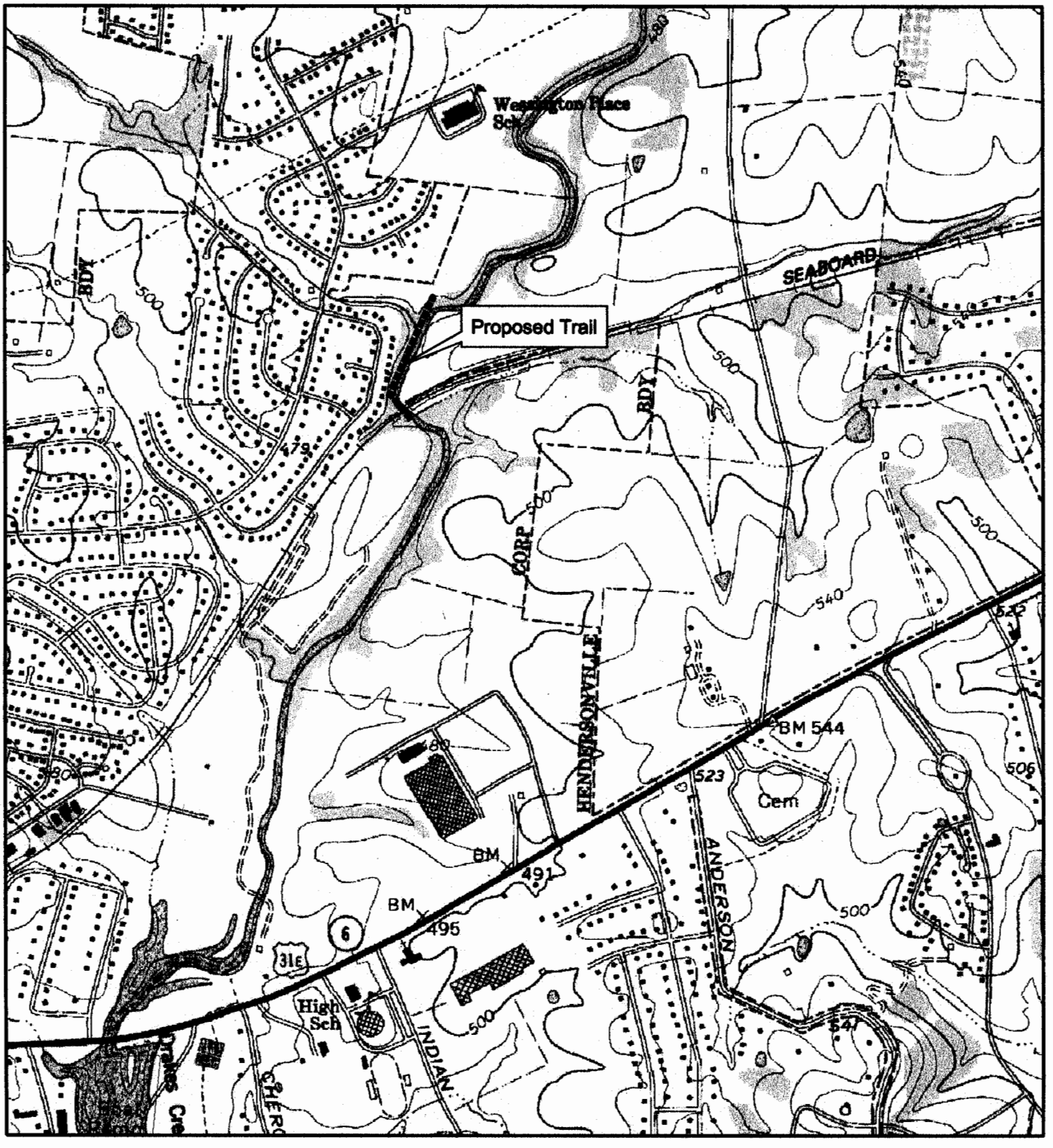
Water quality certification from the state of Tennessee Department of Environmental Conservation (TDEC) in accordance with Section 401(a)(1) of the CWA.

Any person may request, in writing, within the comment period specified in this notice, that a public hearing be held to consider this application. Requests for public hearings shall state, with particularity, the reasons for holding a public hearing.

Written statements received in this office on or before November 13, 2004, will become a part of the record and will be considered in the determination. Any response to this notice should be directed to the Regulatory Branch, Attention: David Baldridge, at the above address, telephone (615) 369-7521.

US Army Corps of Engineers
Nashville District

File No. 2004-00305
PN 04-73
City of Hendersonville
Proposed Pedestrian Trail Extension
Drakes Creek Mile 5.8R
Sumner County, TN



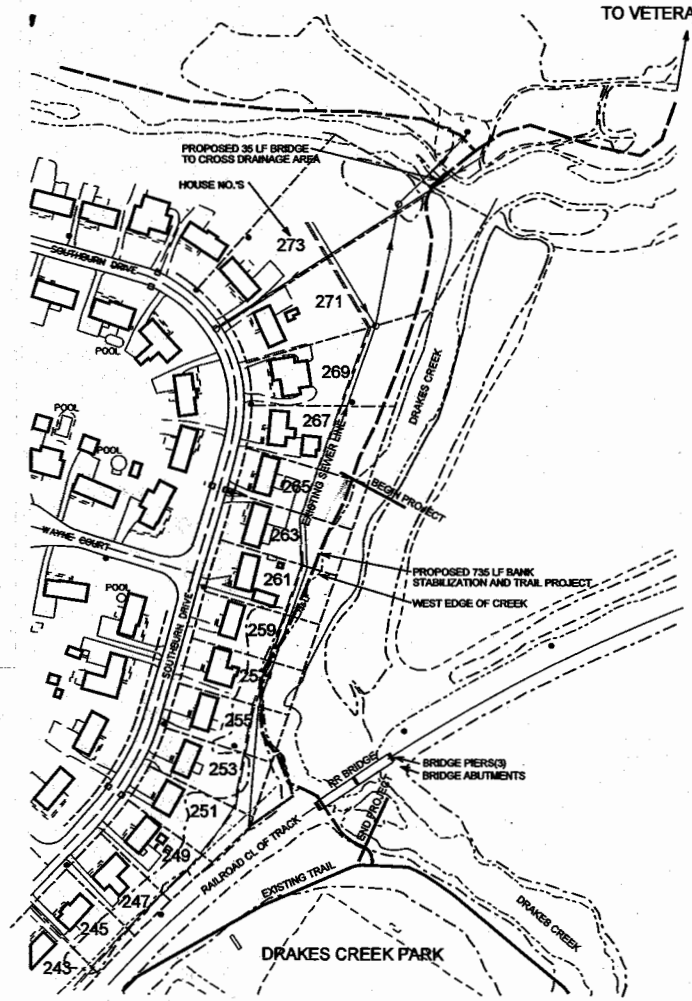
Page 1 of 6

36 19 19.74
86 36 16.27

N
W E
S

File No. 2004-00305

PN 04-73



SITE PLAN

SCALE 1" = 200'

DESCRIPTION OF PROPOSED PROJECT

STREAM CHARACTERISTICS IN PROJECT AREA
NORMAL FLOW DEPTH 12-15"
LENGTH 735 LF
WIDTH 45 LF
SUBSTRATE ROCK AND SEDIMENT
STREAM-SIDE VEGETATION NONE TO LAWNS

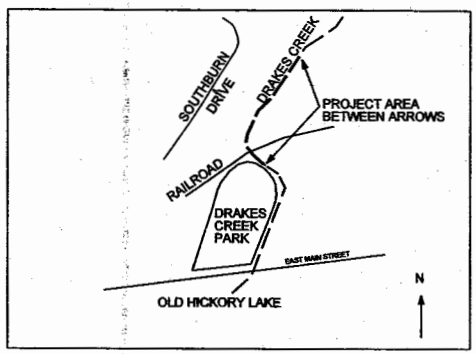
CHANNEL MODIFICATIONS
NONE; CHANNEL HAS WIDENED OVER TIME AS BANKS HAVE ERODED; PROJECT WILL NARROW CHANNEL BACK TOWARDS ITS ORIGINAL SHAPE

AMOUNT OF FILL
500 CU YDS

TOTAL AREA AND LOCATION
AREA OF WORK 735' X 10'
LOCATION SHOWN ON MAP AND SITE PLAN

METHOD OF FILL
DUMP TRUCK HAUL IN; MOVE WITH FRONT END LOADER

LOCATION & TYPE OF EROSION CONTROL DEVICES
FILL MATERIAL BROUGHT IN WILL BE THE EROSION CONTROL METHOD

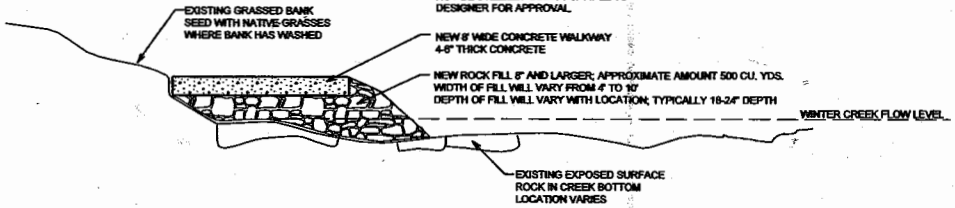


LOCATION MAP

NOT TO SCALE

NOTE:
THE NEW 8' WIDE CONCRETE WALKWAY IS EXPECTED TO FLOOD DURING PERIODS OF HIGH FLOW

NOTE:
STABILIZATION ROCK FILL FOR THE CREEK AND ON THE ERODING BANK SHALL BE 8" AND LARGER NATIVE STONE TO ALLOW WATER TO RUN UNDER WALK IN HIGH WATER AND THEN DRAIN. THE FILL MATERIAL SHALL BE SUPPLIED & PLACED TO APPEAR AS NATURAL AS POSSIBLE. RIPRAP OR SIMILAR MATERAILS SHALL NOT BE UTILIZIED. SUBMIT SAMPLE TO DESIGNER FOR APPROVAL.



CREEK SECTION WITH NEW BANK STABILIZATION AND CONCRETE WALKWAY

NOT TO SCALE

GARVER ENGINEERS
"Engineers Since 1915"
233 WILSON PIKE CIRCLE BRENTWOOD, TENNESSEE 37027
Phone (615) 377-1337 Fax (615) 371-8105 www.garverinc.com
Mail P.O. Box 1847, Brentwood, TN 37024-1847

CITY OF HENDERSONVILLE
BANK STABILIZATION PROJECT

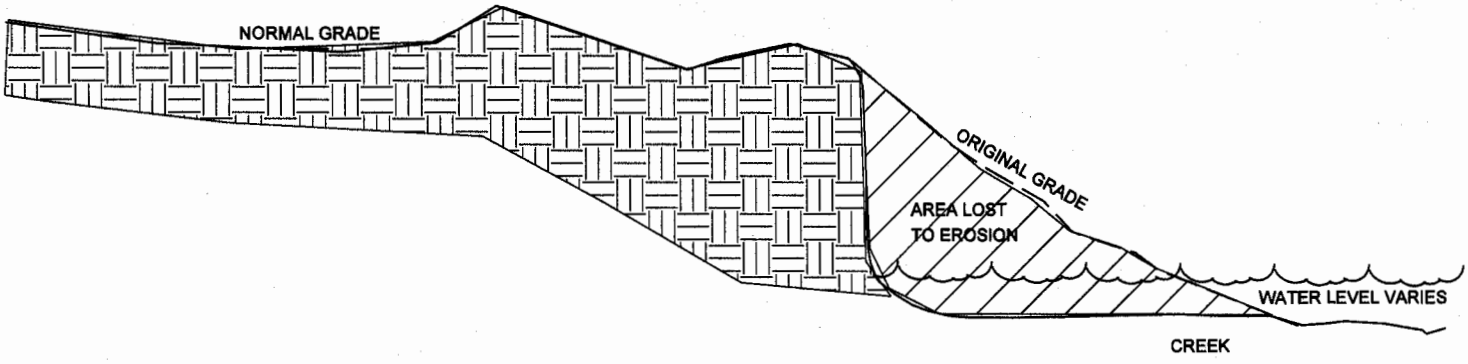
HENDERSONVILLE, TENNESSEE

Job No.	04981050
Date:	5-12-04
Designed by:	PAL
Drawn by:	PAL

Sheet Number 1 of 1

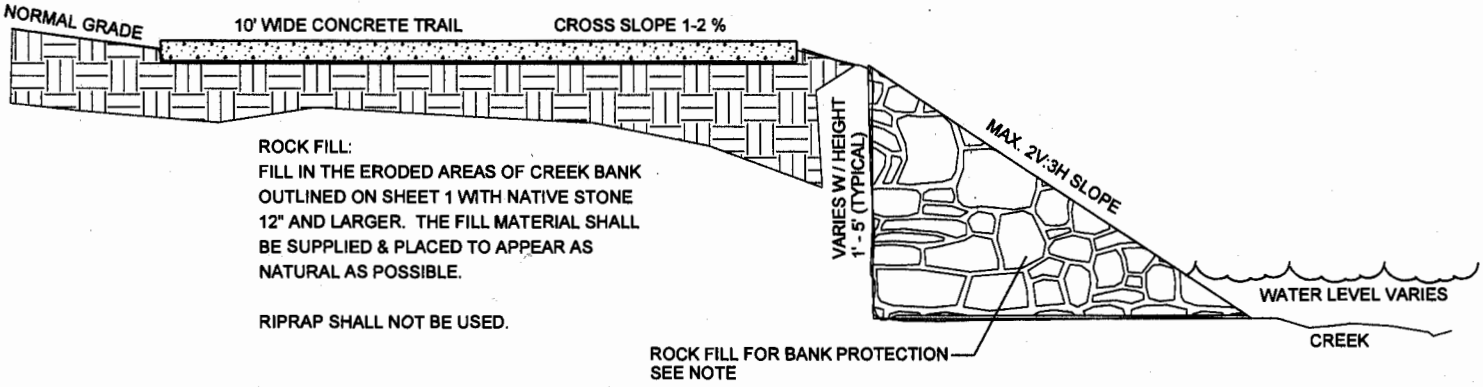
...\2004\04981050 Henlr\ARAPpt.dgn 5/13/2004 2:54:51 PM

Page 2 of 6



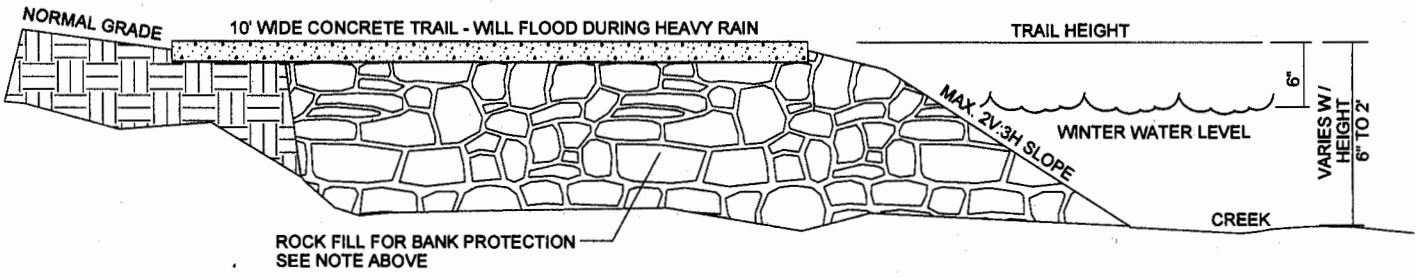
CREEK APPEARANCE BEFORE IMPROVEMENTS

NOT TO SCALE



CREEK APPEARANCE AFTER IMPROVEMENTS
TRAIL BUILT NEXT TO ERODED, LOST CREEKBANK *2

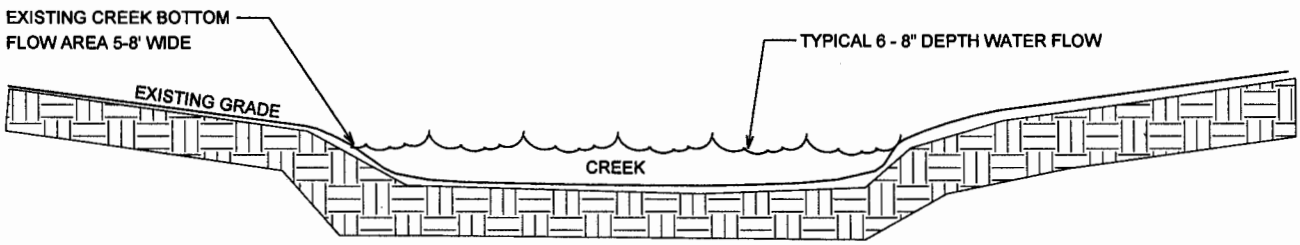
NOT TO SCALE



CREEK APPEARANCE AFTER IMPROVEMENTS
TRAIL BUILT OVER ERODED, LOST CREEKBANK *2

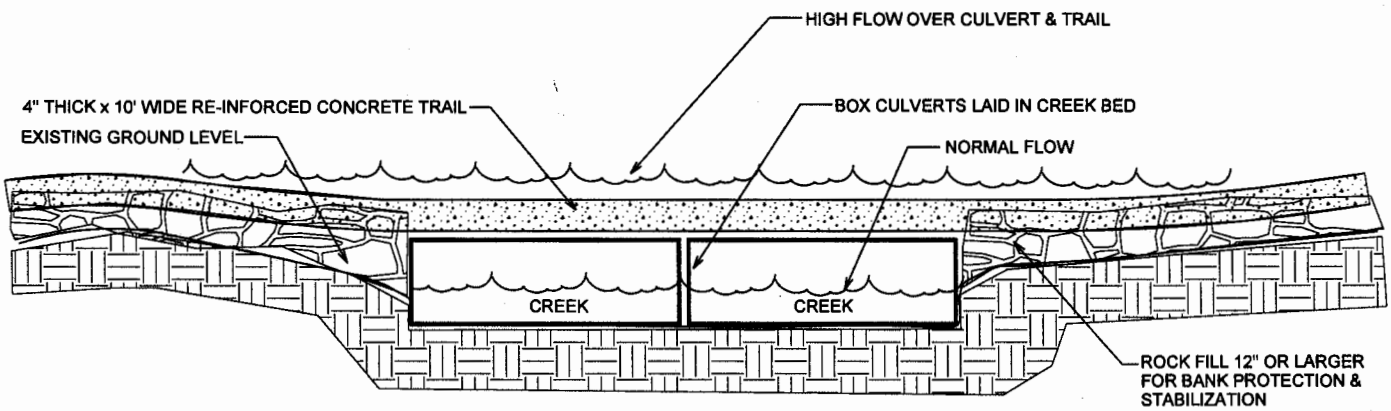
NOT TO SCALE

ALIGNMENT PARALLEL TO CREEK DETAIL



CREEK APPEARANCE BEFORE IMPROVEMENTS

NOT TO SCALE



CREEK WITH CROSSING BY BOX CULVERT *1

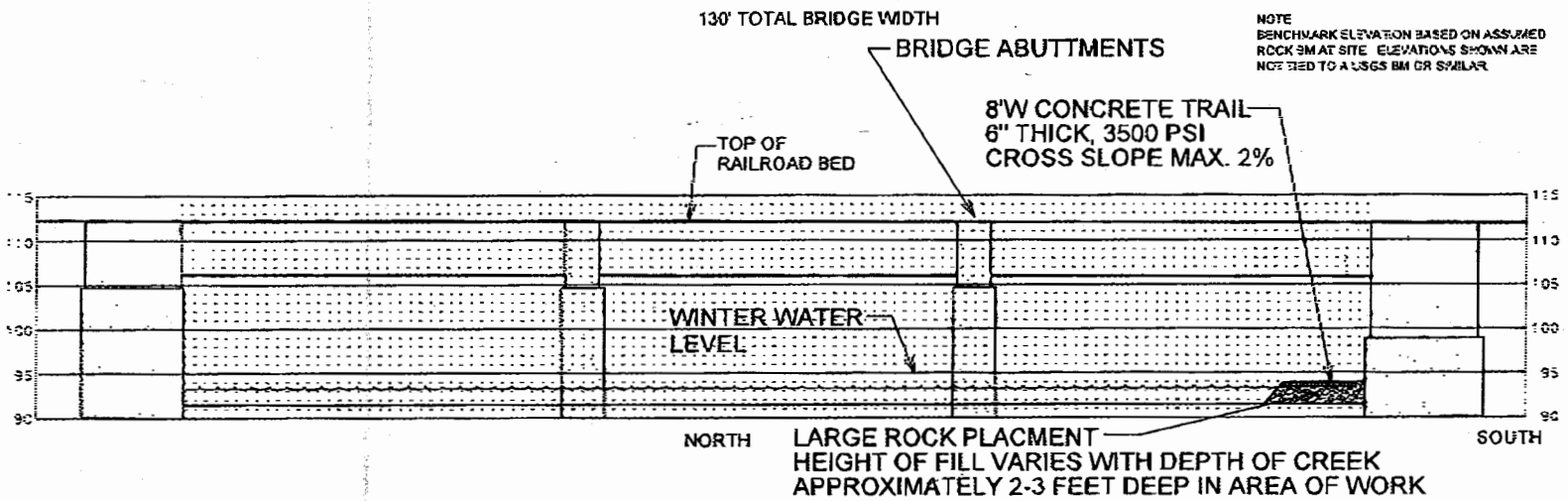
NOT TO SCALE

UNNAMED TRIBUTARY CROSSING DETAIL

File No. 2004-00305

PN 04-73

Page 5 of 6



CREEK PROFILE AT BRIDGE

SCALE 1" = 20'

...\Bridge Shots\bridgedet.dgn 10/8/2004 3:20:24 PM

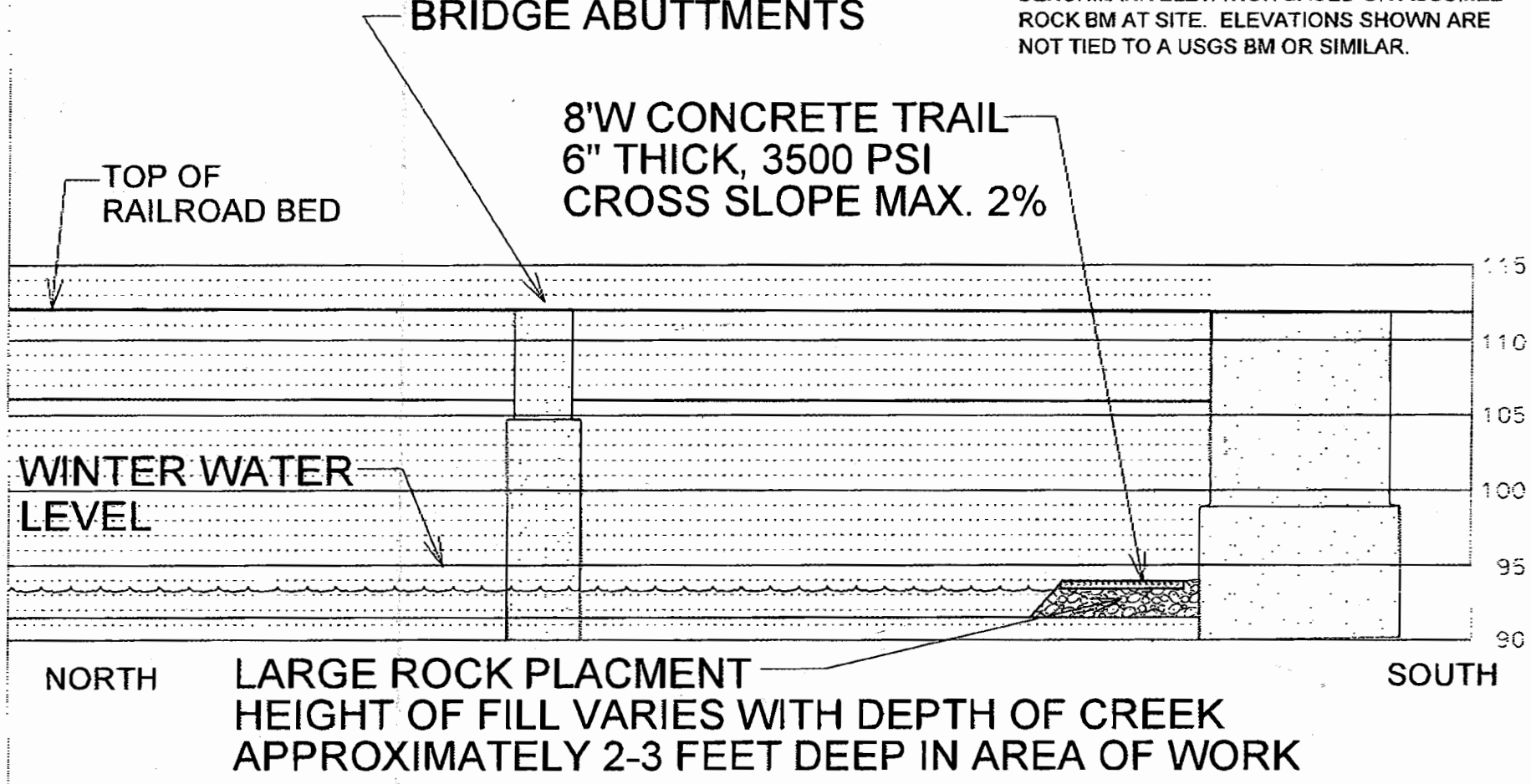
10/08/2004 FRI 10:14 FAX 015 371 8195 ☒ 003/003

Page 6 of 6

File No. 2004-00305

PN 04-73

NOTE:
BENCHMARK ELEVATION BASED ON ASSUMED ROCK BM AT SITE. ELEVATIONS SHOWN ARE NOT TIED TO A USGS BM OR SIMILAR.



CREEK PROFILE AT BRIDGE

SCALE 1" = 10'

...\Bridge Shots\bridgedet.dgn 10/8/2004 3:09:22 PM