



**US Army Corps
of Engineers®**
Nashville District

Public Notice

Public Notice No. 04-19

Date: April 6, 2004

Application No. 200400444

Please address all comments to:
Regulatory Branch, 3701 Bell Road, Nashville, TN 37214-2660

JOINT PUBLIC NOTICE
US ARMY CORPS OF ENGINEERS
AND
COMMONWEALTH OF KENTUCKY

SUBJECT: Proposed Reconstruction of Two Sections of US-27 Northwest of Somerset and Construction of a New Interchange for the Proposed I-66 Project, In Pulaski County, Kentucky

TO ALL CONCERNED: The application described below has been submitted for a Department of the Army (DA) Permit pursuant to **Section 404 of the Clean Water Act (33 U.S.C. 1344)**. Before a permit can be issued, certification must be provided by the Commonwealth of Kentucky, Natural Resources and Environmental Protection Cabinet, pursuant to Section 401(a)(1) of the CWA, that applicable water quality standards will not be violated. By copy of this notice, the applicant hereby applies for the required certification.

APPLICANT: Kentucky Transportation Cabinet (KYTC)
Department of Highways
State Office Building 10th Floor
Frankfort, Kentucky 40622

LOCATION: Starting on existing US-27 from near the intersection with KY-1674 and continuing northerly on new and existing alignment to just south of Pitman Creek. An interchange and portion of the proposed I-66 will be constructed near the community of Pleasant Hill. This portion of I-66 begins at Wilson Road to the west and continues to the approach for a future bridge on existing US-27 and Southern Railroad to the east. Construction activities would impact Hyatts Fork and tributaries, Holtzclaw Branch and tributaries, and several minor tributaries of Caney Fork, Smith Branch, Hall Branch, and Pitman Creek. The proposed work is located on the Somerset, Delmer, Science Hill, and Bobtown USGS Quadrangle Maps (Exhibits A-C).

DESCRIPTION: The proposed project consists of the widening and realigning of two sections of US-27 (approximately 8.8 miles) and construction of an interchange to service the proposed I-66 corridor with US-27. KYTC indicates that the addition of through lanes, turning lanes, and shoulders to US-27 will address the increased capacity need and improve the substandard roadway geometrics. Subsequently, the improvements would increase levels of service and reduce congestion. The I-66 project (know as the East-West Transamerica Corridor) would extend from Virginia to Southern California and is a high priority corridor on the national highway system.

The project would involve the construction and/or extension of culverts, channel changes, a stream relocation, and wetland impacts. These activities are subject to DA authorization. Both on-site and off-site mitigation for impacts is proposed. Construction activities would occur at twenty-three stream sites and four wetland areas. Approximately 7,213' of stream channel (4,411' ephemeral, 714' intermittent, 2,088' perennial) would be impacted by culvert construction,

channel changes, and diversion of waters. Proposed on-site mitigation consists of the construction of 5,850' of stream channel (4,655' ephemeral, 270' intermittent, and 925' perennial). Where on-site mitigation will occur, recommendations in a February 2004, Fuller, Mossbarger, Scott, and May Engineers, Inc., Stream Mitigation Study and Natural Channel Design, US-27, Pulaski County, Kentucky, KYTC Project 8-55.03, will be followed. The goal is to achieve a 25' wide riparian zone on each side of the channel. As outlined in the Study, yearly monitoring with progress reports will be conducted for three years. Further monitoring may be needed after three years if the stream appears unstable. Since there is little opportunity to mitigate on site for the lacking 444' and 1,163' of intermittent and perennial stream channels, KYTC proposes to pay \$160,700 (based on \$100/foot) to the in-lieu-fee program administered by the Kentucky Department of Fish and Wildlife Resources. Impact lengths include pipe lengths being replaced.

A total of 1.30 acres of jurisdictional wetland would be impacted by fill placement. The impacted wetlands are mostly palustrine emergent/forested and generally at two locations, near Sta. 1134+50 and Sta. 480+00, along the US-27 corridor. Since KYTC indicates that on-site wetland mitigation cannot be accomplished, it proposes to debit 2.60 acres of mitigation credits from the Wayne County Mitigation Bank.

A DA permit would be necessary for impacts at the locations described below. Note that "Station" location numerology changes at various locations along the project sections. Please refer to the location map for specific impact site locations. As listed, these sites generally run south to north along the project.

Culvert Impacts

- Sta. 1047+50 (US27) - Construct 296' of 36" pipe culvert on an ephemeral drainage to Caney Fork. This impacts approximately 332' of existing channel. The impact to waters is 0.02 acres.
- Sta. 1051+97 (US27) - Construct 229' of 24" pipe culvert on an ephemeral drainage to Caney Fork. This impacts approximately 248' of existing channel. The impact to waters is 0.01 acres.
- Sta. 1056+09 (US27) - Construct 319' of 30" pipe culvert on an ephemeral drainage to Caney Fork. This impacts approximately 357' of existing channel. The impact to waters is 0.02 acres.
- Sta. 1061+11 (US27) - Construct 327' of 48" pipe culvert on an ephemeral drainage to Caney Fork. This impacts approximately 375' of existing channel. The impact to waters is 0.03 acres.
- Sta. 1078+00 (US27) - Construct 298' of 30" pipe culvert on a drainage that ends at a sinkhole above Caney Fork. This impacts approximately 325' of existing channel. The impact to waters is 0.02 acres.
- Sta. 1090+17 (US27) - Construct 449' of 42" pipe culvert, with a 20' long stilling basin at the outlet on an ephemeral drainage to Caney Creek. This impacts approximately 489' of existing channel. The impact to waters is 0.04 acres.
- Sta. 1134+37 (US27) - Construct 153' of 42" pipe culvert on an ephemeral drainage to the Sportman's Club Lake with 25' of inlet and 208' of outlet channel improvement. This impacts approximately 424' of existing channel. The impact to waters is 0.03 acres. See "Wetland Impacts" listed.

- Sta. 1238+89 (US27) - Construct an outlet extension 88' in length with 40' of outlet channel improvement, for an existing 6' X 4' box culvert on an intermittent tributary to Smith Branch. This impacts 130' of existing channel. The impact to waters is 0.02 acres.
- Sta. 259+58 (BYPASS) - Construct 248.2' of 24" pipe culvert on an ephemeral tributary to Hall Branch. This impacts approximately 270' of existing channel. The impact to waters is 0.01 acres.
- Sta. 290+22 (BYPASS) - Construct 402.1' of 60" pipe culvert with a 30' long stilling basin at the outlet on an ephemeral tributary to Caney Fork (flow originates from existing sinkhole overflow). This replaces 300' of existing channel and 30' of existing culvert under Racetrack Road. The impact to waters is 0.02 acres.
- Sta. 413+86 (BYPASS, Ramp 3 & 4) - Construct 455.5' of 54" pipe culvert with a 28' long stilling basin at the outlet on an ephemeral tributary to Caney Fork (flow originates from existing sinkhole overflow). This replaces 489' of existing channel. The impact to waters is 0.02 acres.
- Sta. 29+50 (Access Rd.) - Construct 184' of 9' X 5' box culvert with a 35' long stilling basin at the outlet on an ephemeral tributary to Caney Fork. This replaces 251' of existing channel. The impact to waters is 0.03 acres.
- Sta. 452+48 (US27) - Construct a 119' extension to an existing 10'X 7' box culvert with 63' of outlet channel improvement on Holtzclaw Branch. This impacts 210' of perennial stream. The impact to waters is 0.06 acres. Some on-site mitigation is proposed (see Stream Mitigation Plan).
- Sta. 21+58 (Frog Hollow Rd.) - Construct 86' of 42" pipe culvert with 45' of inlet and 205' of outlet channel improvement on an intermittent tributary to Holtzclaw Branch. This impacts 270' of existing channel. The impact to waters is 0.03 acres. Some on-site mitigation is proposed (see Stream Mitigation Plan).
- Sta. 505+84 (US27) - Construct 215' of 30" pipe culvert with 43' of inlet and 54' of outlet channel improvement on an ephemeral tributary to Hyatt's Fork. This replaces 130' of existing culvert and 147' of existing channel. The impact to waters is 0.01 acres. Some on-site mitigation is proposed (see Stream Mitigation Plan).
- Sta. 510+87 (US27) - Construct a 94' extension to an existing 6'X 6' box culvert with 58' of outlet channel improvement on a perennial tributary to Hyatt's Fork. This impacts 199' of existing channel. The impact to waters is 0.05 acres. Some on-site mitigation is proposed (see Stream Mitigation Plan).
- Sta. 549+06 (US27) - Construct a 121' extension to an existing 5' X 4' box culvert with 49' of outlet channel improvement on a perennial tributary to Hyatt's Fork. This impacts 184' of existing channel. The impact to waters is 0.03 acres. Some on-site mitigation is proposed (see Stream Mitigation Plan).
- Sta. 555+69 (US27) - Construct a 145' extension (53' at inlet and 92' at outlet) to an existing 5'X 4' box culvert on a perennial tributary to Hyatt's Fork. This will confluence with a section of relocated Hyatt's Fork listed later. This impacts 148' of existing stream. The impact to waters is 0.02 acres.
- Sta. 583+35 (US27) - Construct a 116' extension to an existing 5'X 4' box culvert with 60' of

outlet channel improvement on a perennial tributary to Hyatt's Fork. This impacts 270' of existing channel. The impact to waters is 0.05 acres.

- Sta. 624+26 (US27) - Construct 271' of 42" pipe culvert with 7' of inlet and 41' of outlet channel improvement on a perennial tributary to Pitman Creek. This replaces 186' of existing culvert and 175' of existing channel. The impact to waters is 0.02 acres.

Channel Change Impacts

- Sta. 554+00 to Sta. 561+47 - Relocate 836' of Hyatt's Fork, and 40' of a tributary. This will be replaced as follows: beginning at an existing culvert at Sta. 561+47, construct a 153' extension to the box culvert, then construct 337.1' of new channel to the inlet of a new culvert on Hyatt's Fork Road, at Sta. 101+21. This culvert is a double 10'X 9' box culvert, 55' in length, and replaces 31' of existing culvert on Hyatt's Fork. From the outlet, construct 365.7' of new channel. Additionally, a new 25' section of the tributary will be constructed in this lower section of new channel. Both new sections of stream will be constructed using Natural Channel Design techniques. The impact to waters is 0.21 acres.

Other Roadway Impacts (Diversion of Waters)

- Sta. 581+34 - Divert existing ephemeral tributary of Hyatt's Fork into roadside drainage channel. This impacts 244' of existing channel and 55' of existing culvert, to be filled. The impact to waters is 0.02 acres. Some on-site mitigation is proposed (see Stream Mitigation Plan).
- Sta. 588+25 - Divert existing intermittent tributary of Hyatt's Fork into roadside drainage channel. This impacts 314' of existing channel and 59' of existing culvert, to be filled. The impact to waters is 0.05 acres. Some on-site mitigation is proposed (see Stream Mitigation Plan).

Wetland Impacts

- Sta. 1133+10 to 1138+80 (US27), near culvert impact at Sta. 1134+37 - The roadway fill will encroach upon approximately 1.17 acres of wetlands between these stations. A precise delineation is difficult because of surface disturbances from development, and the sporadic nature of wetlands found within the limits of construction. The map provides the extent of the area in which these were found, but the amount of total acreage was based on a field determination of the percentage of the area being wetland (approximately 50%). It should be noted that the majority of the impacted area is outside the forested portion of this wetland.
- Sta. 480+00 Left (US27) - Widening of the roadway will encroach upon approximately 0.007 acres of a wetland with fill.
- Sta. 480+00 Right (US27) - Widening of the roadway will encroach upon 0.05 acres of wetlands associated with seepage and outflow from an existing pond.
- Sta. 480+00 Right (US27) - Widening of the roadway will encroach upon a 0.386-acre pond, which has 0.07 acres of wetlands (around the perimeter). The rest of the pond, approximately 0.316 acres, will be filled as well.

Representative plans of the proposal are attached to this notice (Exhibits D-P). To arrange view-

ing a complete set of permit drawings/sketches, please contact J. Ruben Hernandez, Corps of Engineers, at (615) 369-7519. In addition, a complete set of permit drawings/sketches is available at KYTC's Somerset District office located at 1660 South Highway 27, Somerset, Kentucky. To arrange viewing the documents at KYTC's Somerset office, please call Ms. Cathi Blair at (606) 677-4014.

The decision whether to issue a permit will be based on an evaluation of the probable impacts including cumulative impacts of the activity on the public interest. That decision will 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 will 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 will 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 will be granted unless the District Engineer determines that it would be contrary to the public interest.

The Corps of Engineers (Corps) 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 will be considered by the Corps 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 (EA) and/or an Environmental Impact Statement pursuant to the National Environmental Policy Act (NEPA). Comments are also used to determine the need for a public hearing and to determine the overall public interest of the proposed activity. KYTC and the Federal Highway Administration have prepared an EA and Findings of No Significant Impact (FONSI) for the entire US-27 corridor from KY-1574 up to the Lincoln County Line. In addition, both agencies have prepared an EA for the Somerset Northern Bypass (I-66) in Pulaski County. However, the Corps will prepare an EA for the two Sections of US-27 and the I-66 interchange prior to a final decision concerning issuance or denial of the requested DA Permit.

By letters dated June 16 and October 22, 1997, the Kentucky Heritage Council indicated that no listed or eligible National Register of Historic Places (NRHP) property or archaeological site would be affected by the undertaking. We have recently also consulted the NRHP and no properties listed in or eligible for the 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.

Correspondence between KYTC and the U.S. Fish and Wildlife Service (USFWS) concerning US-27 and Somerset's Northern Bypass (I-66) in Pulaski County indicates that USFWS supports the belief that the proposed project is "not likely to adversely affect" the endangered gray bat (Myotis grisescens) and Indiana bat (Myotis sodalis). The Corps will initiate informal consultation procedures with the USFWS to fulfill our obligation under Section 7 of the Endangered Species Act.

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

- Water quality certification from the Commonwealth of Kentucky in accordance with Section 401(a)(1) of the Clean Water Act.

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 May 6, 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: J. Ruben Hernandez, at the above address, telephone (615) 369-7519. Please send your comments relative to the §401 Water Quality Certification to Mr. John Dovak, Division of Water, Water Quality Branch, 14 Reilly Road, Frankfort, KY 40601, telephone (502) 564-3410.

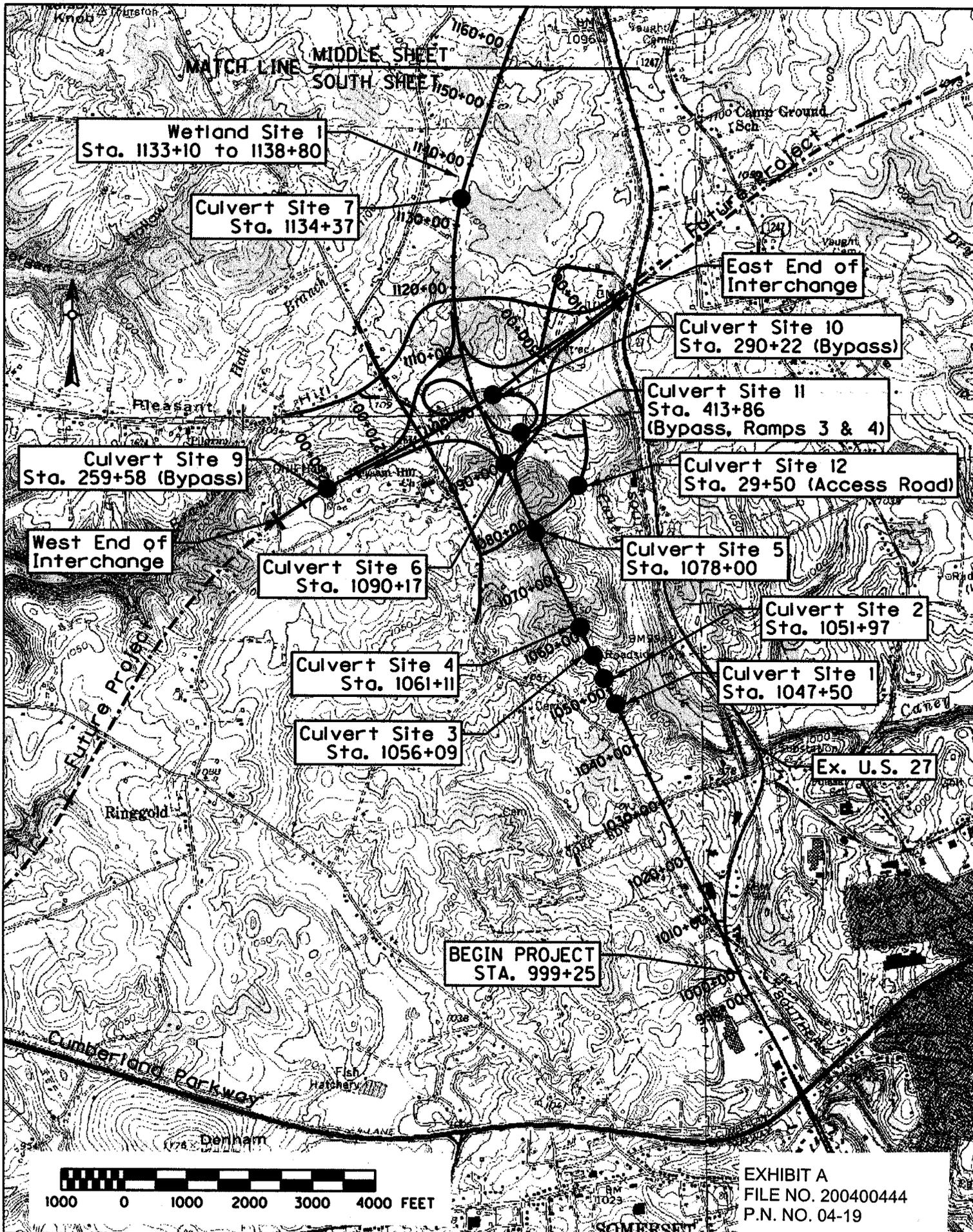
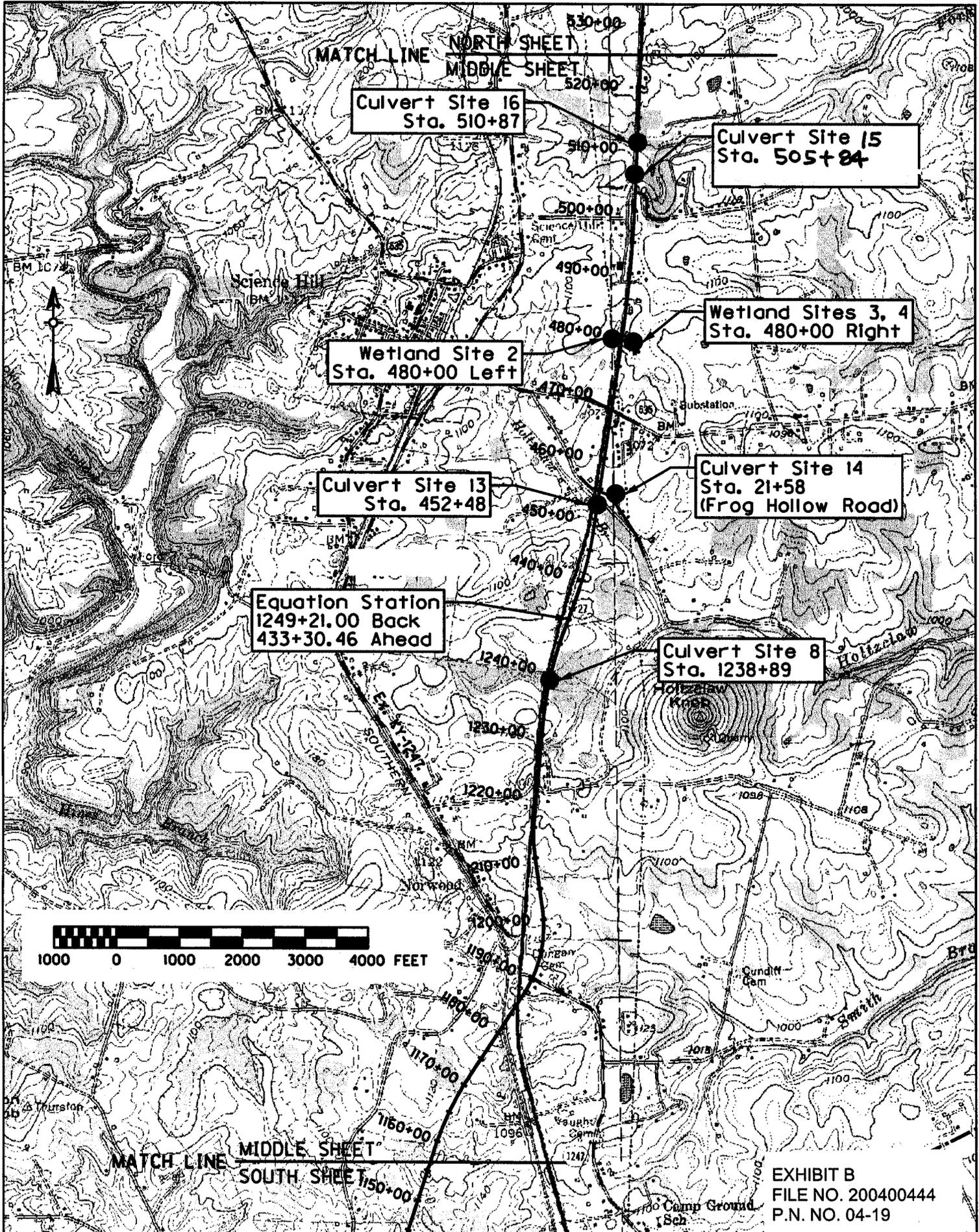
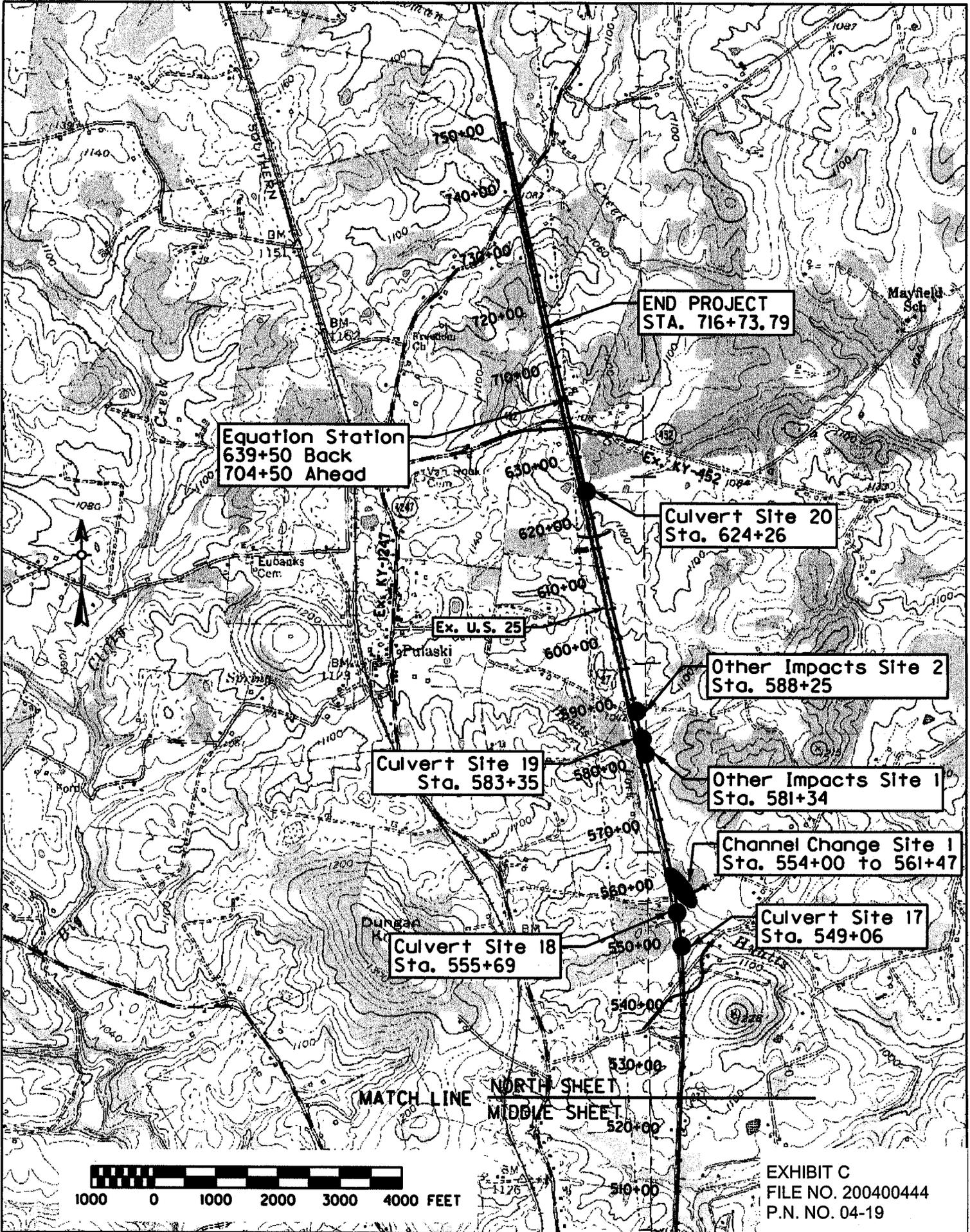


EXHIBIT A
 FILE NO. 200400444
 P.N. NO. 04-19

Kentucky Transportation	SITE: U. S. 27 Somerset - Summary of Section 404 Impacts			STREAM	
	COUNTY: Pulaski	STATE: Kentucky	NEAR: Somerset	ITEM: 08-55.02	SHEET: South



Kentucky Transportation	SITE: U. S. 27 Somerset - Summary of Section 404 Impacts			STREAM	
	COUNTY: Pulaski	STATE: Kentucky	NEAR: Somerset	ITEM: 08-55.02	SHEET: Middle



Equation Station
639+50 Back
704+50 Ahead

END PROJECT
STA. 716+73.79

Culvert Site 20
Sta. 624+26

Other Impacts Site 2
Sta. 588+25

Culvert Site 19
Sta. 583+35

Other Impacts Site 1
Sta. 581+34

Channel Change Site 1
Sta. 554+00 to 561+47

Culvert Site 18
Sta. 555+69

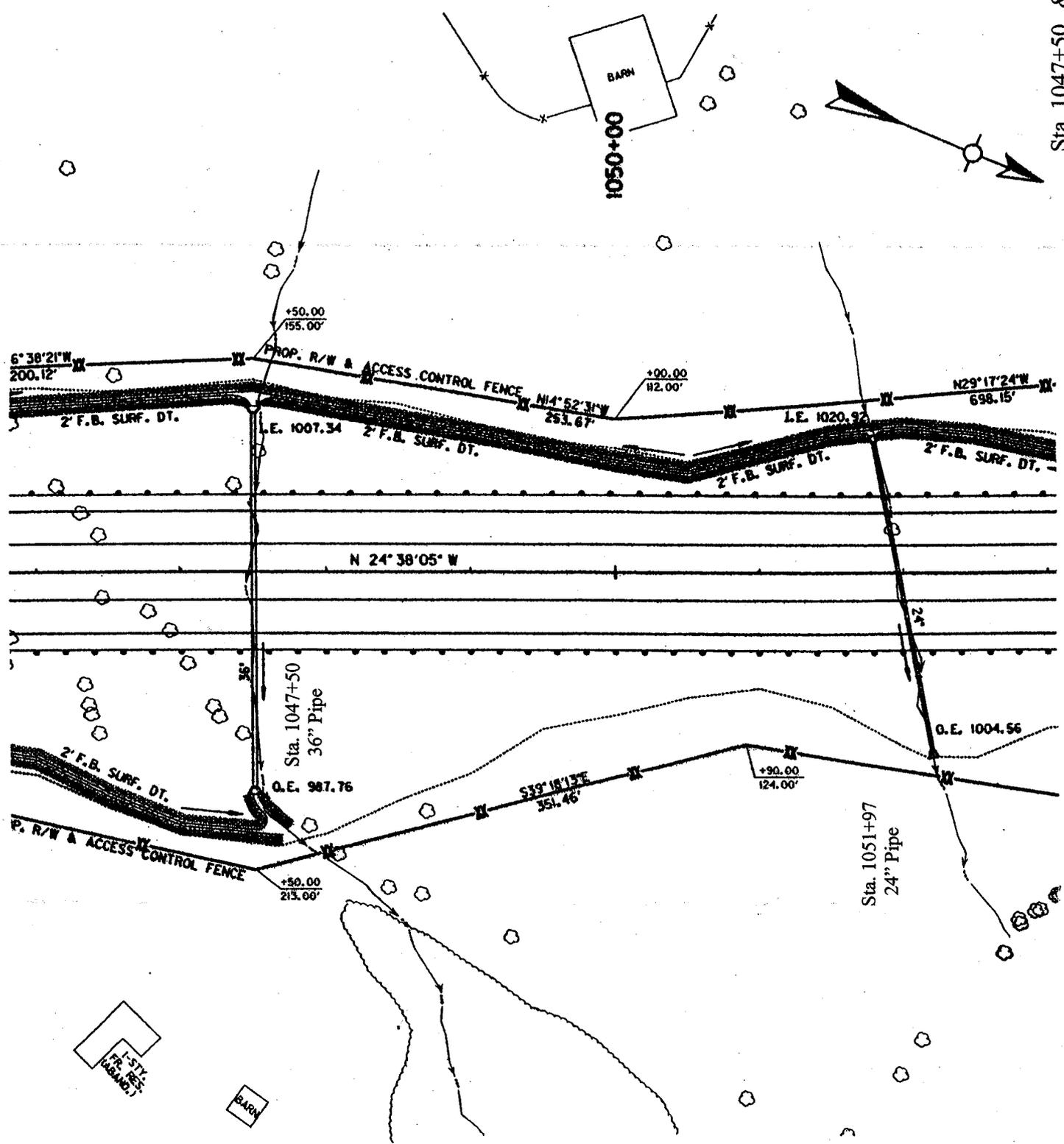
Culvert Site 17
Sta. 549+06



EXHIBIT C
FILE NO. 200400444
P.N. NO. 04-19

Kentucky Transportation	SITE: U. S. 27 Somerset - Summary of Section 404 Impacts			STREAM	ITEM: 08-55.02	SHEET: North
	COUNTY: Pulaski	STATE: Kentucky	NEAR: Somerset			

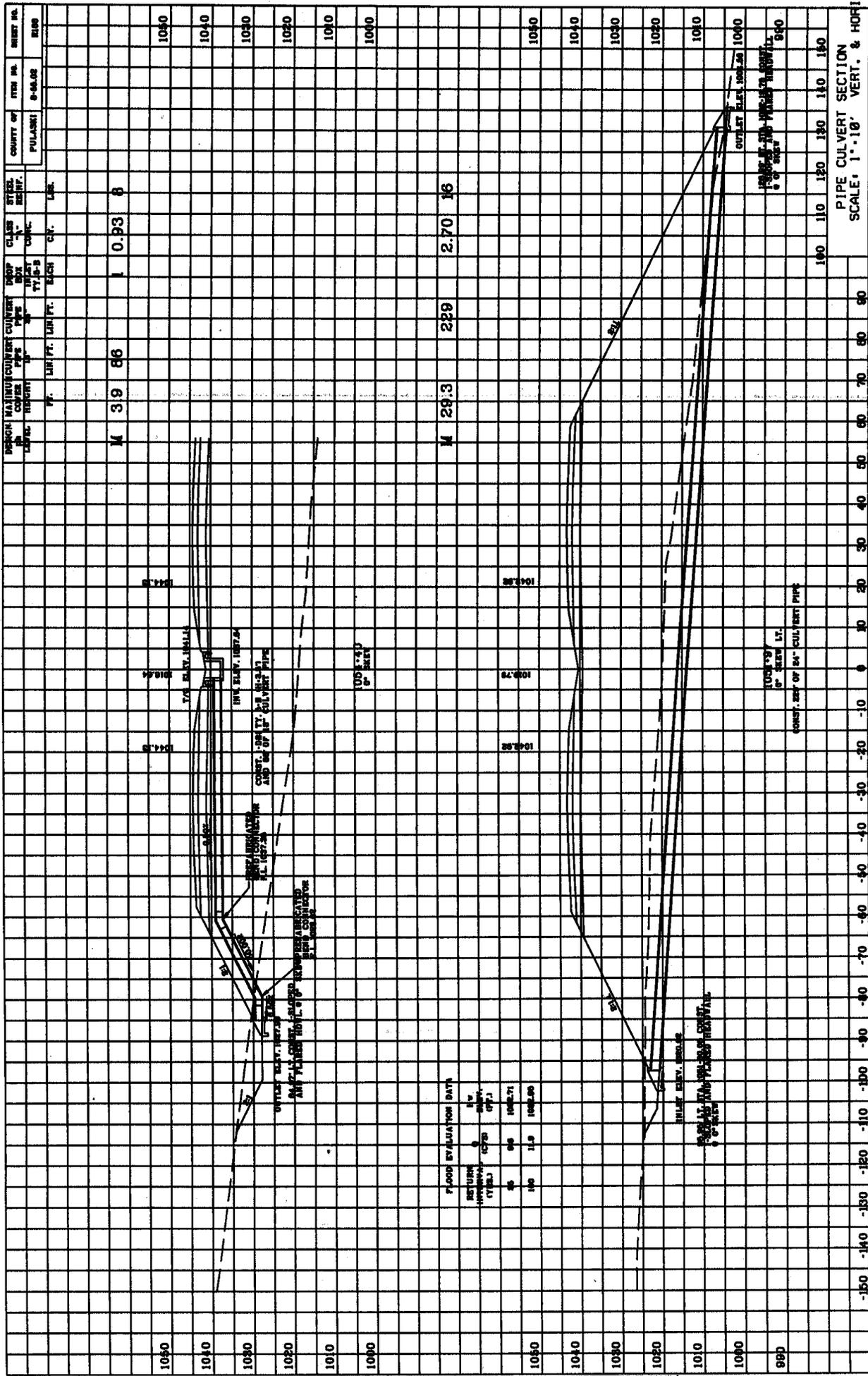
Sta. 1047+50 & Sta. 1051+97



1" = 100'

EXHIBIT D
FILE NO. 200400444
P.N. NO. 04-19

SITE 1 & 2



DESIGN	DATE	BY	CHECKED	DATE	BY	CHECKED
M	39	86				

ITEM NO.	DESCRIPTION	QUANTITY	UNIT
1	PIPE CULVERT SECTION	1	SECTION

ITEM NO.	DESCRIPTION	QUANTITY	UNIT
2	CONCRETE	2.70	CU YD
3	STEEL	1.03	LB

ITEM NO.	DESCRIPTION	QUANTITY	UNIT
4	PIPE CULVERT SECTION	1	SECTION

ITEM NO.	DESCRIPTION	QUANTITY	UNIT
5	CONCRETE	2.70	CU YD
6	STEEL	1.03	LB

ITEM NO.	DESCRIPTION	QUANTITY	UNIT
7	PIPE CULVERT SECTION	1	SECTION

ITEM NO.	DESCRIPTION	QUANTITY	UNIT
8	CONCRETE	2.70	CU YD
9	STEEL	1.03	LB

ITEM NO.	DESCRIPTION	QUANTITY	UNIT
10	PIPE CULVERT SECTION	1	SECTION

ITEM NO.	DESCRIPTION	QUANTITY	UNIT
11	CONCRETE	2.70	CU YD
12	STEEL	1.03	LB

ITEM NO.	DESCRIPTION	QUANTITY	UNIT
13	PIPE CULVERT SECTION	1	SECTION

ITEM NO.	DESCRIPTION	QUANTITY	UNIT
14	CONCRETE	2.70	CU YD
15	STEEL	1.03	LB

ITEM NO.	DESCRIPTION	QUANTITY	UNIT
16	PIPE CULVERT SECTION	1	SECTION

ITEM NO.	DESCRIPTION	QUANTITY	UNIT
17	CONCRETE	2.70	CU YD
18	STEEL	1.03	LB

ITEM NO.	DESCRIPTION	QUANTITY	UNIT
19	PIPE CULVERT SECTION	1	SECTION

ITEM NO.	DESCRIPTION	QUANTITY	UNIT
20	CONCRETE	2.70	CU YD
21	STEEL	1.03	LB

ITEM NO.	DESCRIPTION	QUANTITY	UNIT
22	PIPE CULVERT SECTION	1	SECTION

ITEM NO.	DESCRIPTION	QUANTITY	UNIT
23	CONCRETE	2.70	CU YD
24	STEEL	1.03	LB

ITEM NO.	DESCRIPTION	QUANTITY	UNIT
25	PIPE CULVERT SECTION	1	SECTION

ITEM NO.	DESCRIPTION	QUANTITY	UNIT
26	CONCRETE	2.70	CU YD
27	STEEL	1.03	LB

ITEM NO.	DESCRIPTION	QUANTITY	UNIT
28	PIPE CULVERT SECTION	1	SECTION

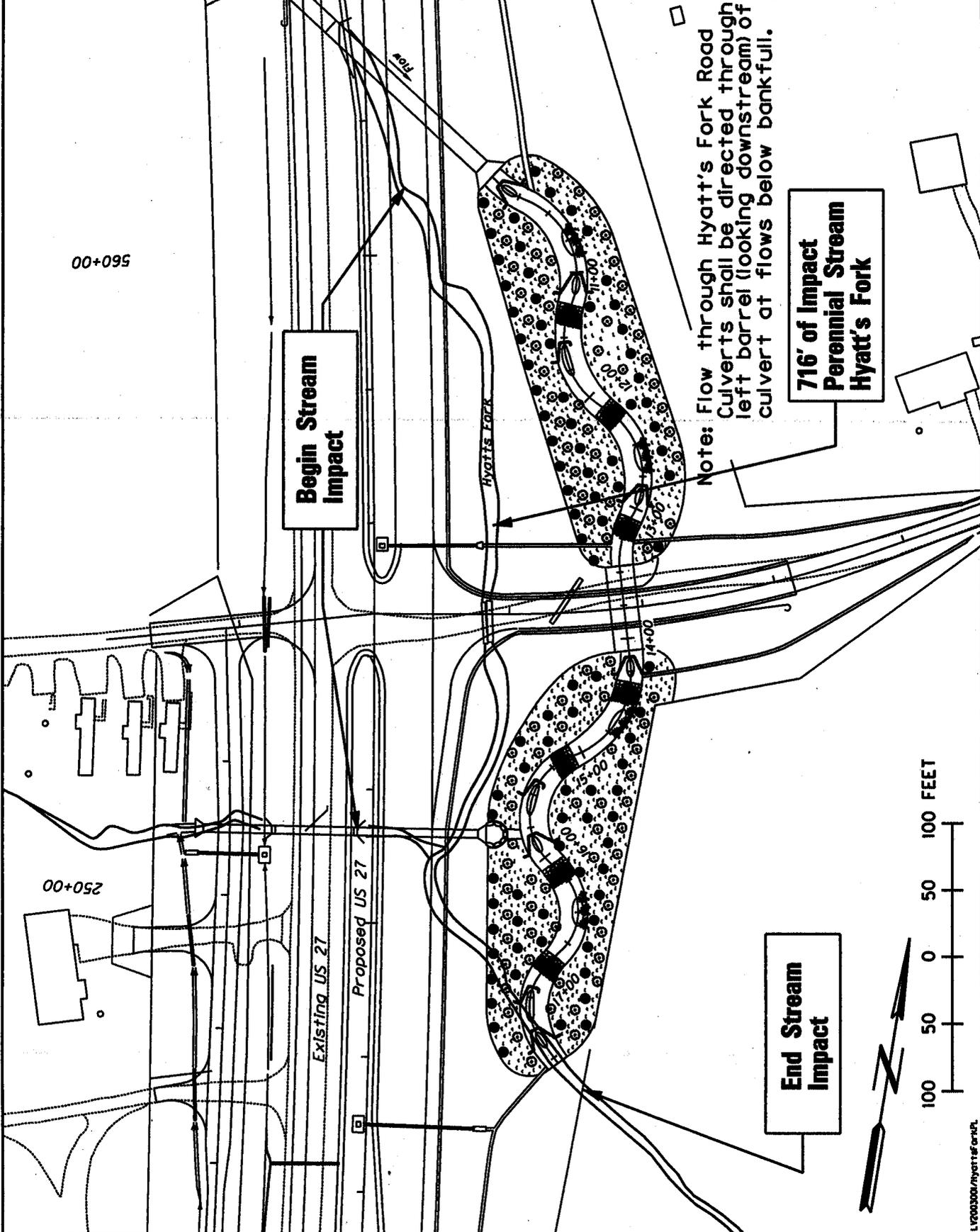
ITEM NO.	DESCRIPTION	QUANTITY	UNIT
29	CONCRETE	2.70	CU YD
30	STEEL	1.03	LB

ITEM NO.	DESCRIPTION	QUANTITY	UNIT
31	PIPE CULVERT SECTION	1	SECTION

ITEM NO.	DESCRIPTION	QUANTITY	UNIT
32	CONCRETE	2.70	CU YD
33	STEEL	1.03	LB

EXHIBIT F
FILE NO. 200400444
P.N. NO. 04-19

pipesect2.dgn 09/12/2003 02:55:00 PM



00+095

Begin Stream Impact

716' of Impact Perennial Stream Hyatt's Fork

Note: Flow through Hyatt's Fork Road Culverts shall be directed through of left barrel (looking downstream) of culvert at flows below bankfull.

End Stream Impact



250+00

Existing US 27

Proposed US 27

Hyatt's Fork

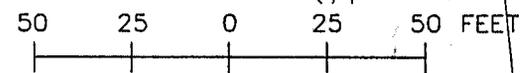
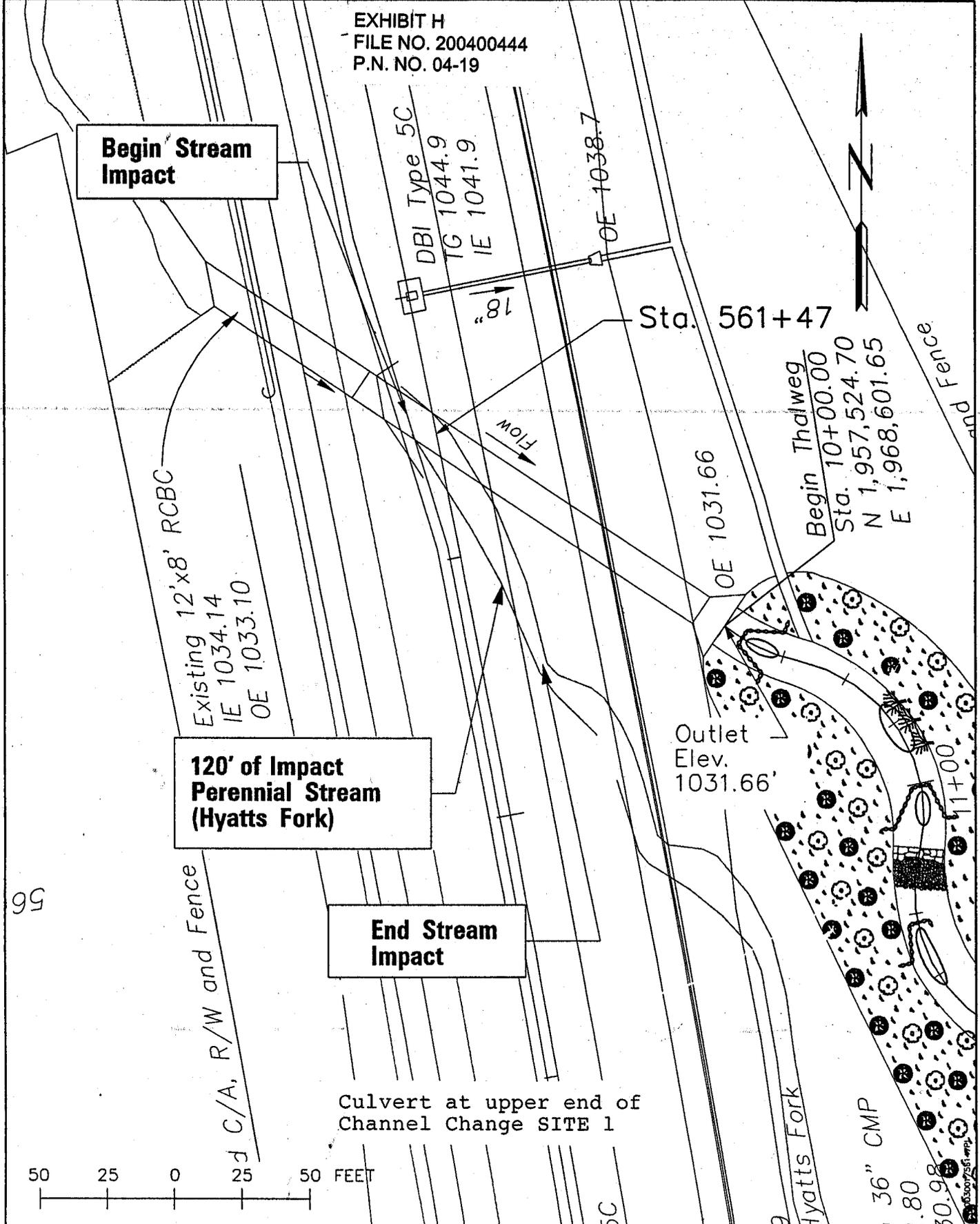
~NOTES~		APPLICATION BY		554+00 to 559+75	
U.S. 27 Relocation Pulaski County		KENTUCKY TRANSPORTATION CABINET DEPARTMENT OF HIGHWAYS		PROPOSED ACTIVITIES:	
				HYATT'S FORK	SCIENCE HILL
Distances in Feet or as noted.		DIVISION OF ENVIRONMENTAL ANALYSIS		STREAM NAME:	AT OR NEAR:
				PULASKI	KENTUCKY
		COUNTY OF:	STATE OF:		
		-	8-55.03	1 OF 1	
		MILE POINT:	ITEM NO.:	SHEET NO.:	

Channel Change Site 1

EXHIBIT G
FILE NO. 200400444
P.N. NO. 04-19

aHyattsForkPL.dgn 03/03/2004 02:05:57 PM

L:\2003000\hyatt's fork



~NOTES~

U.S. 27 Relocation
 Pulaski County

Distances in Feet
 or as noted.

APPLICATION BY

KENTUCKY TRANSPORTATION CABINET
 DEPARTMENT OF HIGHWAYS

DIVISION OF
 ENVIRONMENTAL ANALYSIS

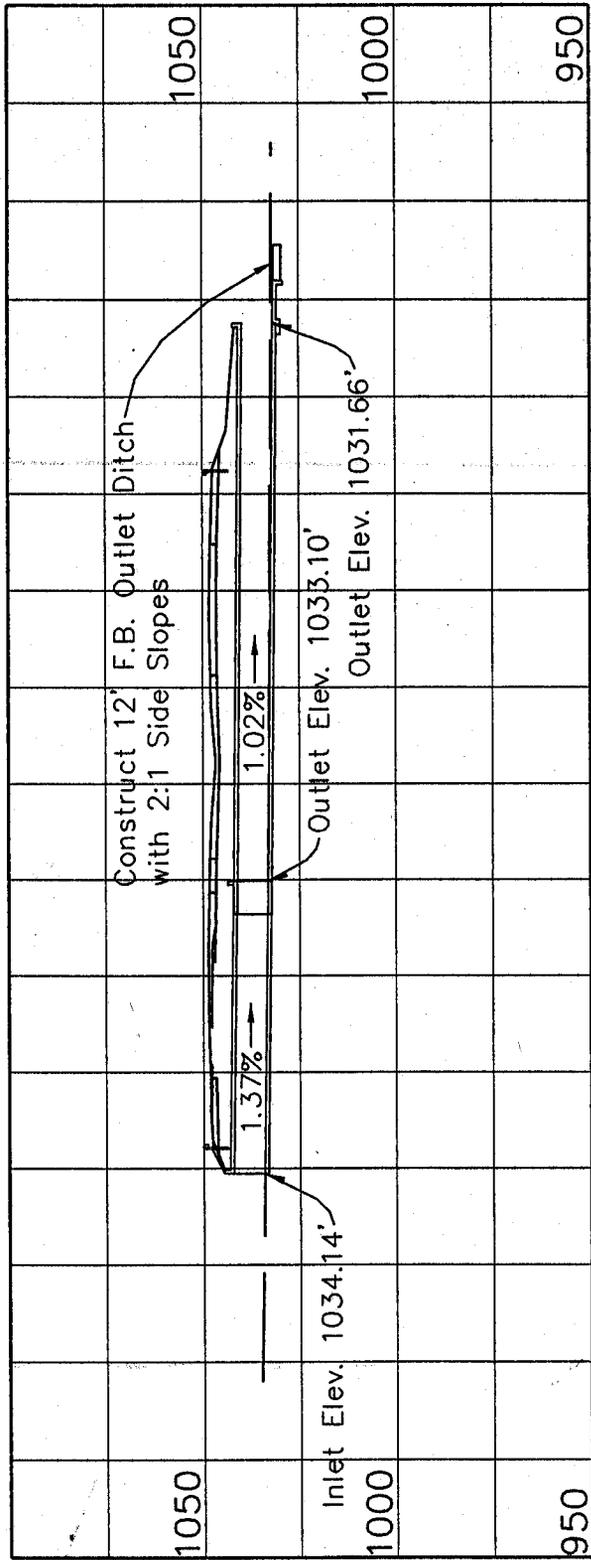
STA. 561+47 - 12'x8' RCBC

PROPOSED ACTIVITIES:	
HYATT'S FORK	SCIENCE HILL
STREAM NAME:	AT OR NEAR:
PULASKI	KENTUCKY
COUNTY OF:	STATE OF:
-	8-55.03
MILE POINT:	ITEM NO.:
	15 OF 20
	SHEET NO.:

02-03
 Cell Library
 Call Name:

EXHIBIT I
 FILE NO. 200400444
 P.N. NO. 04-19

FLOOD EVALUATION DATA
 Q 25 = 907 cfs
 HW 25 = 1043.1'
 Q 100 = 1310 cfs
 HW 100 = 1047.3'



Sta. 561+47
 @ 45° Skew Rt.
 Construct 153' of 12'x8' RCBC

Culvert at upper end of Channel Change

~NOTES~

U.S. 27 Relocation
 Pulaski County

Distances in Feet
 or as noted.

APPLICATION BY

KENTUCKY TRANSPORTATION CABINET
 DEPARTMENT OF HIGHWAYS

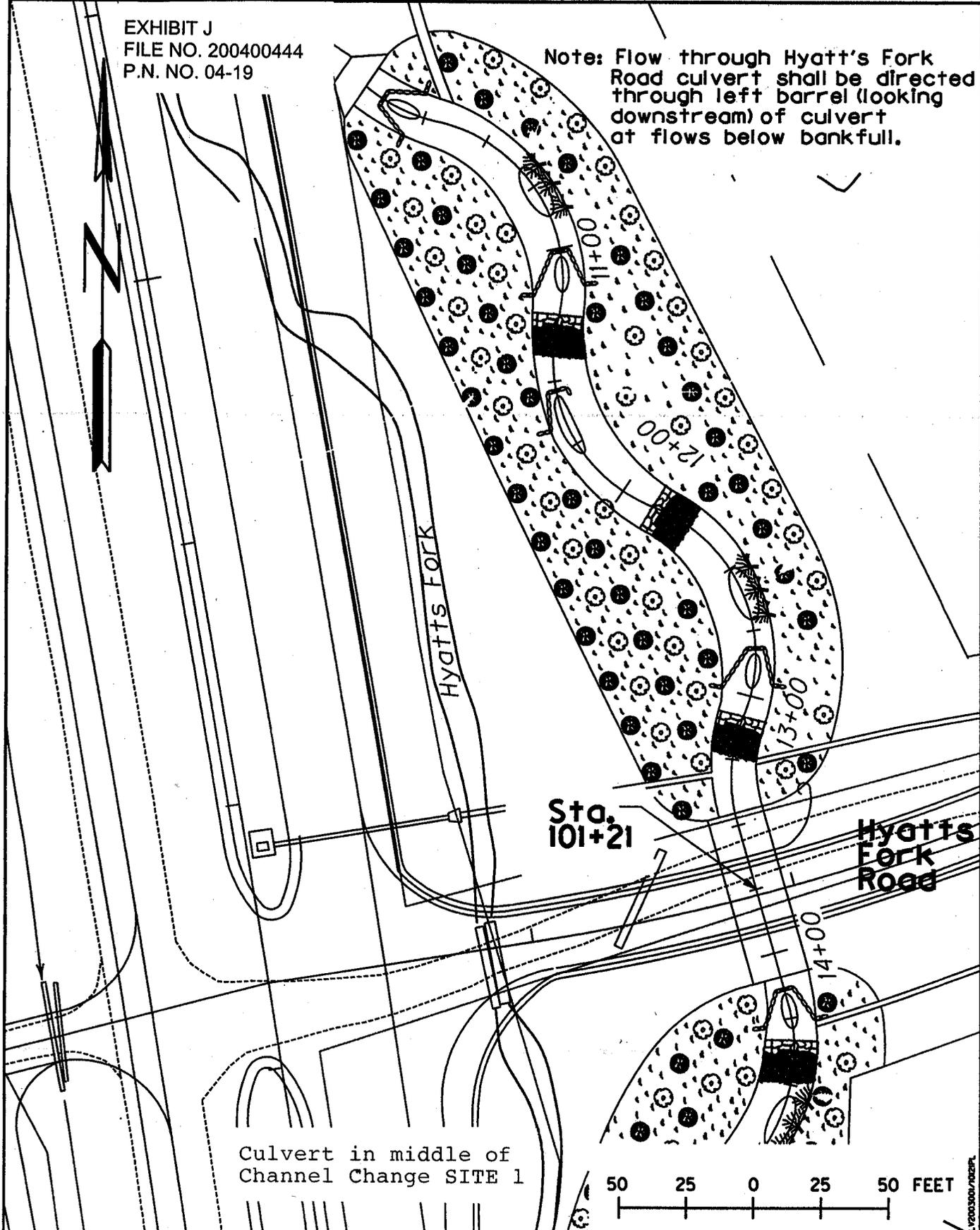
DIVISION OF
 ENVIRONMENTAL ANALYSIS

STA. 561+47 - PIPE SHEET

PROPOSED ACTIVITIES:	
HYATT'S FORK	SCIENCE HILL
STREAM NAME:	AT OR NEAR:
PULASKI	KENTUCKY
COUNTY OF:	STATE OF:
-	8-55.03
MILE POINT:	ITEM NO.:
	16 OF 20
	SHEET NO.:

EXHIBIT J
 FILE NO. 200400444
 P.N. NO. 04-19

Note: Flow through Hyatt's Fork Road culvert shall be directed through left barrel (looking downstream) of culvert at flows below bankfull.



Culvert in middle of Channel Change SITE 1

~NOTES~

U.S. 27 Relocation
 Pulaski County

Distances in Feet
 or as noted.

APPLICATION BY

KENTUCKY TRANSPORTATION CABINET
 DEPARTMENT OF HIGHWAYS

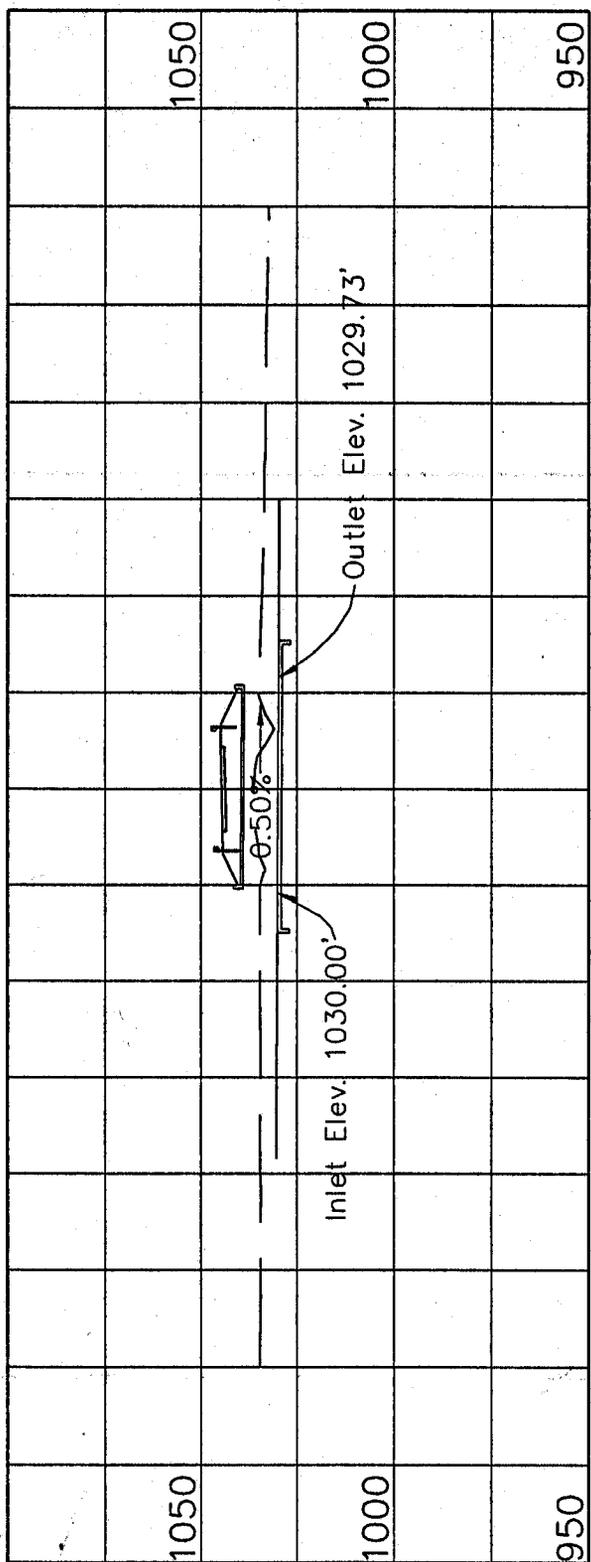
DIVISION OF
 ENVIRONMENTAL ANALYSIS

STA. 101+21 HYATT'S FORK ROAD -
 DBL. 10'X9' RCBC

PROPOSED ACTIVITIES:	
UT TO HYATT'S FORK	SCIENCE HILL
STREAM NAME:	AT OR NEAR:
PULASKI	KENTUCKY
COUNTY OF:	STATE OF:
-	8-55.03
MILE POINT:	SHEET NO.:
	13 OF 20

EXHIBIT K
 FILE NO. 200400444
 P.N. NO. 04-19

FLOOD EVALUATION DATA
 Q 25 = 976 cfs
 HW 25 = 1036.3'
 Q 100 = 1408 cfs
 HW 100 = 1038.1'



Sta. 101+21 - Hyatts Fork Road
 @ 1° Skew Rt.
 Construct ~53' of Dbl. 10'x9' RCBC

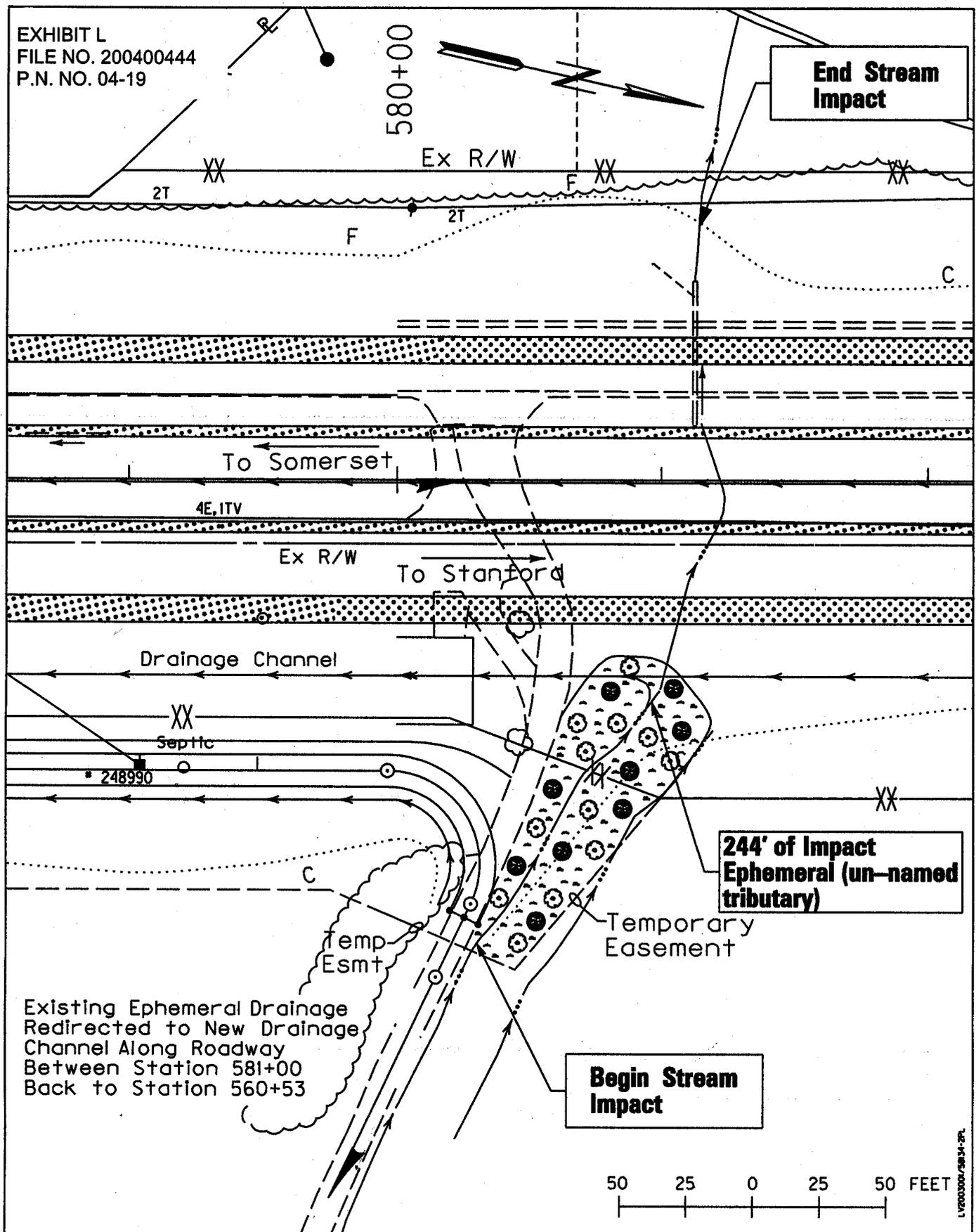
Culvert in middle of Channel Change SITE 1

LV2003001/0121PD

02-03
 Cell Library
 Cell Name:

<p>~NOTES~</p> <p>U.S. 27 Relocation Pulaski County</p> <p>Distances in Feet or as noted.</p>	<p>APPLICATION BY</p> <p>KENTUCKY TRANSPORTATION CABINET DEPARTMENT OF HIGHWAYS</p> <p>DIVISION OF ENVIRONMENTAL ANALYSIS</p>	<p>STA. 101+21 HYATT'S FORK ROAD - PIPE SHEET</p>	
		<p>PROPOSED ACTIVITIES:</p>	
		<p>UT TO HYATT'S FORK STREAM NAME:</p>	<p>SCIENCE HILL AT OR NEAR:</p>
		<p>PULASKI COUNTY OF:</p>	<p>KENTUCKY STATE OF:</p>
<p>MILE POINT: -</p>	<p>ITEM NO.: 8-55.03</p>	<p>SHEET NO.: 14 OF 20</p>	

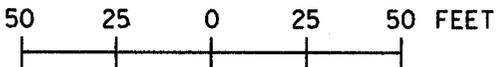
EXHIBIT L
 FILE NO. 200400444
 P.N. NO. 04-19



**244' of Impact
 Ephemeral (un-named
 tributary)**

**Begin Stream
 Impact**

Existing Ephemeral Drainage
 Redirected to New Drainage
 Channel Along Roadway
 Between Station 581+00
 Back to Station 560+53

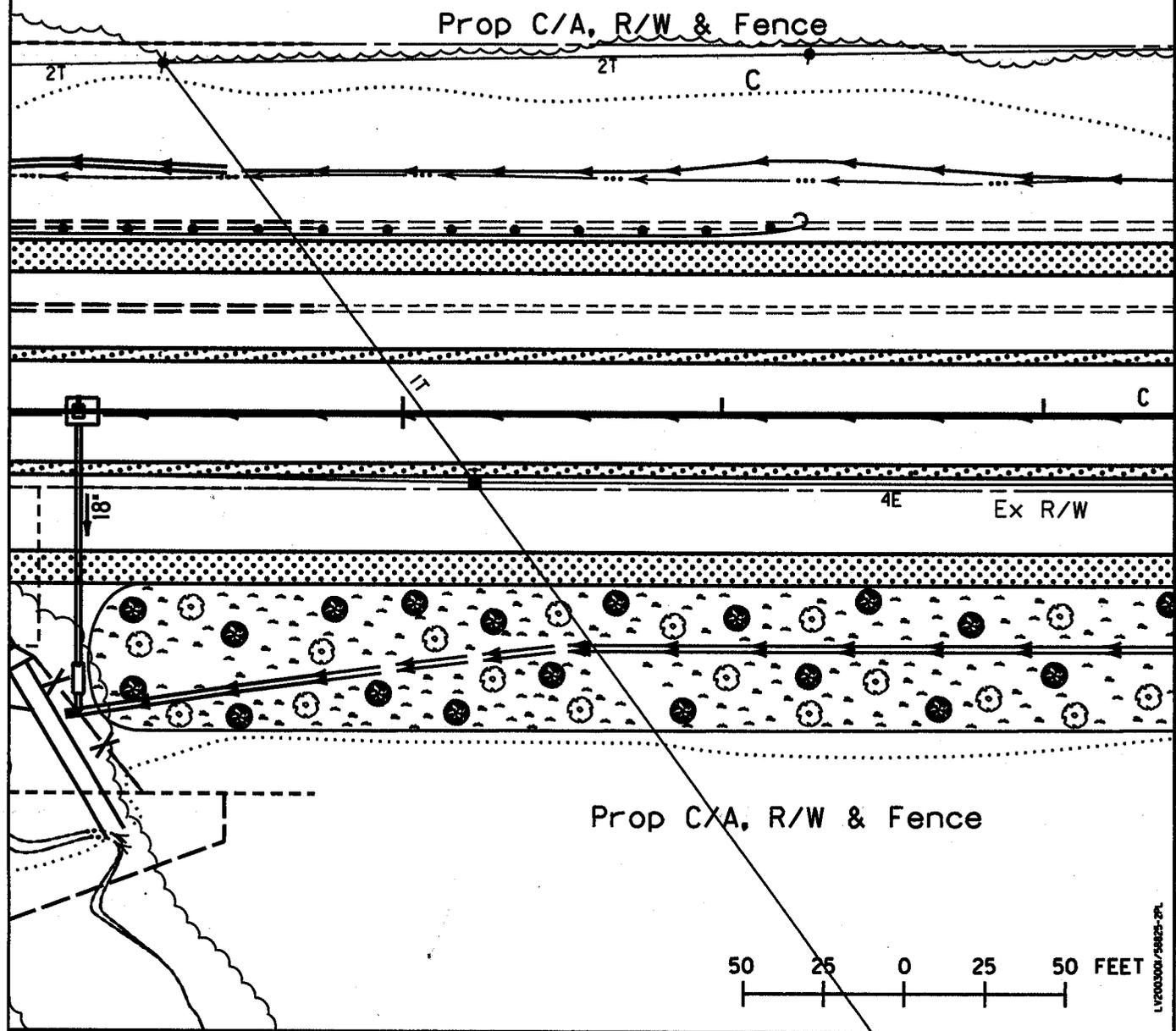


L:\2003\000\58134-2PL

~NOTES~ U.S. 27 Relocation Pulaski County Distances In Feet or as noted.	APPLICATION BY KENTUCKY TRANSPORTATION CABINET DEPARTMENT OF HIGHWAYS	STATION 581+34		
	DIVISION OF ENVIRONMENTAL ANALYSIS	PROPOSED ACTIVITIES:		
		UT TO HYATT'S FORK	SCIENCE HILL	
		STREAM NAME: PULASKI	AT OR NEAR: KENTUCKY	
COUNTY OF: -	STATE OF: 8-55.03	1 OF 3		
MILE POINT: -	ITEM NO.:	SHEET NO.:		

585+00

EXHIBIT M
 FILE NO. 200400444
 P.N. NO. 04-19



Match Next Sheet

14200000/00000241

<p>~NOTES~</p> <p>U.S. 27 Relocation Pulaski County</p> <p>Distances in Feet or as noted.</p>	<p>APPLICATION BY</p> <p>KENTUCKY TRANSPORTATION CABINET DEPARTMENT OF HIGHWAYS</p>	<p>STATION 588+24</p>	
	<p>DIVISION OF ENVIRONMENTAL ANALYSIS</p>	<p>PROPOSED ACTIVITIES:</p> <p>UT TO HYATT'S FORK</p>	<p>SCIENCE HILL</p>
		<p>COUNTY OF:</p> <p>PULASKI</p>	<p>STATE OF:</p> <p>KENTUCKY</p>
	<p>MILE POINT:</p> <p>-</p>	<p>ITEM NO.:</p> <p>8-55.03</p>	<p>SHEET NO.:</p> <p>2 OF 3</p>

EXHIBIT N
 FILE NO. 200400444
 P.N. NO. 04-19

590+00

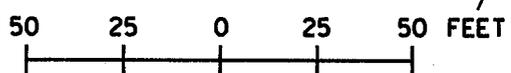
End Stream Impact

Match Previous Sheet

314' of Impact Intermittent (un-named tributary)

Mitigation Proposed From Station 584+05 to Station 589+90

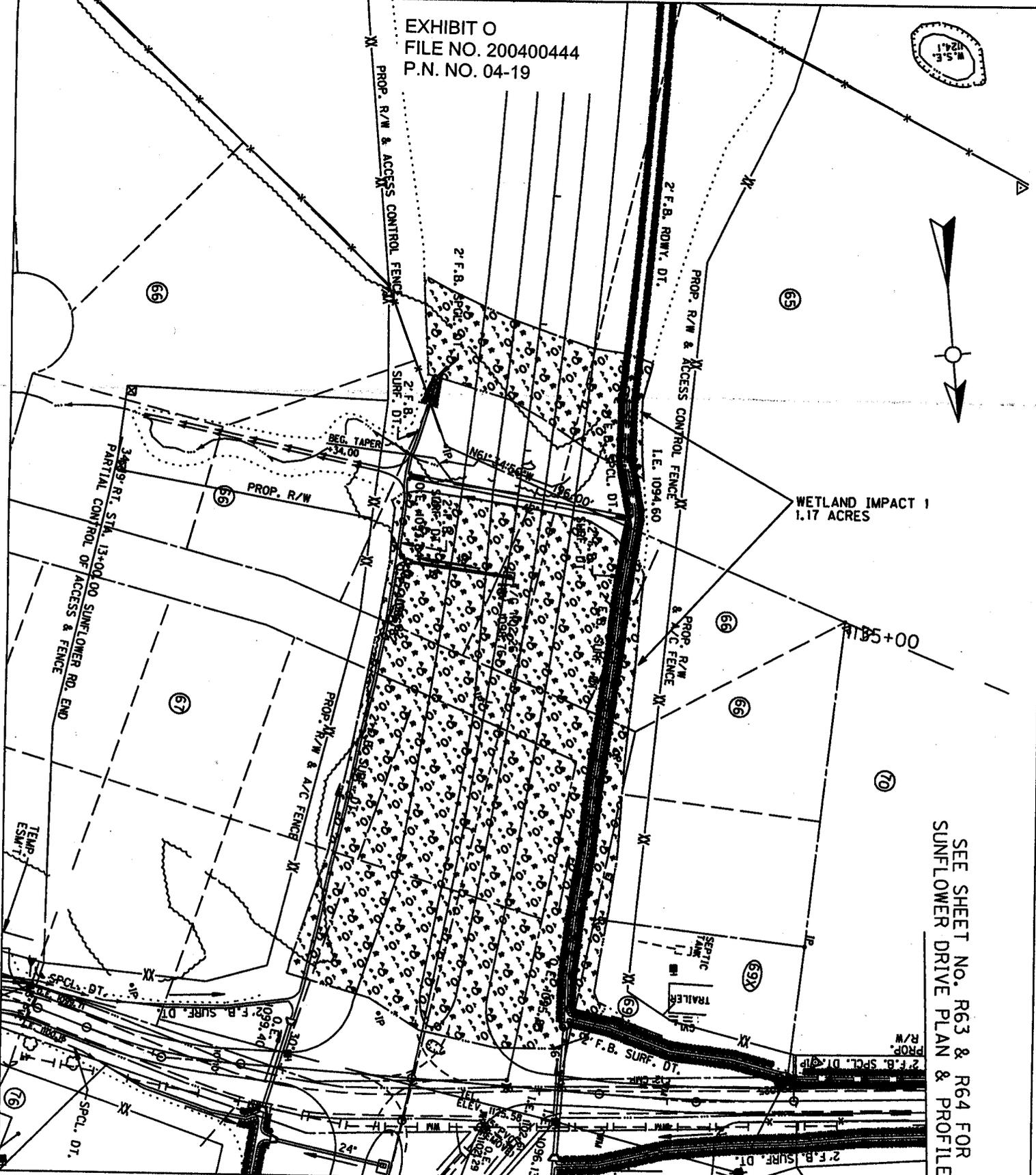
Begin Stream Impact



S 77°17'49" W
 70.42'

<p align="center">~NOTES~</p> <p align="center">U.S. 27 Relocation Pulaski County</p> <p align="center">Distances in Feet or as noted.</p>	<p>APPLICATION BY</p> <p>KENTUCKY TRANSPORTATION CABINET DEPARTMENT OF HIGHWAYS</p>		<p>STATION 588+24</p>	
	<p>DIVISION OF ENVIRONMENTAL ANALYSIS</p>		<p>PROPOSED ACTIVITIES:</p> <p>UT TO HYATT'S FORK</p>	<p>SCIENCE HILL</p>
	<p>STREAM NAME:</p> <p>PULASKI</p>		<p>AT OR NEAR:</p> <p>KENTUCKY</p>	
	<p>COUNTY OF:</p> <p>PULASKI</p>		<p>STATE OF:</p> <p>KENTUCKY</p>	<p>MILE POINT:</p> <p>8-55.03</p>

EXHIBIT O
 FILE NO. 200400444
 P.N. NO. 04-19



SEE SHEET NO. R63 & R64 FOR
 SUNFLOWER DRIVE PLAN & PROFILE

~NOTES~

WETLAND IMPACT

APPLICATION BY
 KENTUCKY TRANSPORTATION CABINET
 DEPARTMENT OF HIGHWAYS
 DIVISION OF
 ENVIRONMENTAL ANALYSIS

STATION 1134+50

PROPOSED ACTIVITIES:		
SPORTSMAN'S CLUB LAKE		
STREAM NAME:	AT OR NEAR:	
PULASKI	Kentucky	
COUNTY OF:	STATE OF:	
U.S. 27	08-55.02	1 of 1
ROUTE NUMBER:	ITEM NO.:	SHEET NO.:

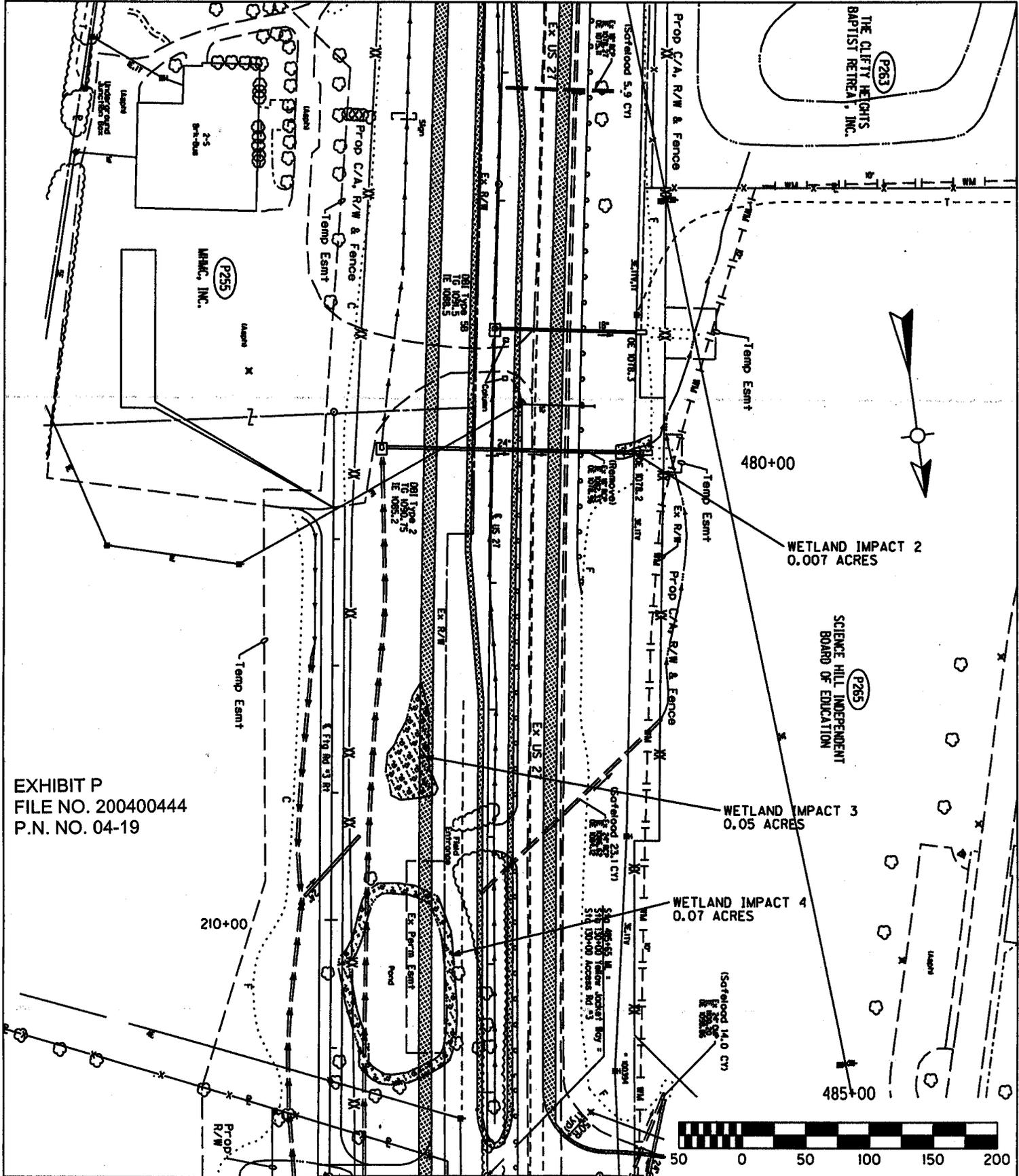


EXHIBIT P
 FILE NO. 200400444
 P.N. NO. 04-19

~NOTES~

Wetland Impacts

APPLICATION BY
 KENTUCKY TRANSPORTATION CABINET
 DEPARTMENT OF HIGHWAYS
 DIVISION OF
 ENVIRONMENTAL ANALYSIS

STA 480+00 LEFT AND RIGHT

PROPOSED ACTIVITIES:		
U.T. to Holtzclaw Br.		
STREAM NAME:	AT OR NEAR:	
PULASKI	Kentucky	
COUNTY OF:	STATE OF:	
U.S. 27	08-55.03	1 of 1
ROUTE NUMBER:	ITEM NO.:	SHEET NO.: