



**U S Army Corps
of Engineers**
Huntington District

Public Notice

In reply refer to Public Notice No.

2006-2394-KAN

Issuance Date:

JUL 6 2007

Stream:

Closing Date:

AUG 5 2007

Unnamed Tributaries of Tom's Branch

Please address all comments and inquiries to:

U.S. Army Corps of Engineers, Huntington District

ATTN: CELRH-OR-F Public Notice No. (*reference above*)

502 Eighth Street

Huntington, West Virginia 25701-2070

Phone: (304) 399-5710

PUBLIC NOTICE: The purpose of this public notice is to inform you of a proposal for work in which you might be interested. It is also to solicit your comments and information to better enable us to make a reasonable decision on factors affecting the public interest. We hope you will participate in this process.

REGULATORY PROGRAM: Since its early history, the U.S. Army Corps of Engineers (Corps) has played an important role in the development of the nation's water resources. Originally, this involved construction of harbor fortifications and coastal defenses. Later duties included the improvement of waterways to provide avenues of commerce. An important part of our mission today is the protection of the nation's waterways through the administration of the Corps Regulatory Program.

SECTION 10: The Corps is directed by Congress under Section 10 of the Rivers and Harbors Act of 1899 (33 USC 403) to regulate all work or structures in or affecting the course, condition or capacity of navigable waters of the United States (U.S.). The intent of this law is to protect the navigable capacity of waters important to interstate commerce.

SECTION 404: The Corps is directed by Congress under Section 404 of the Clean Water Act (33 USC 1344) to regulate the discharge of dredged and fill material into all waters of the United States, including wetlands. The intent of the law is to protect the nation's waters from the indiscriminate discharge of material capable of causing pollution and to restore and maintain their chemical, physical and biological integrity.

TO WHOM IT MAY CONCERN: The following application has been submitted for a Department of the Army Permit under the provisions of Section 404 of the Clean Water Act (CWA). This notice also serves as the Corps of Engineers' request to the West Virginia Department of Environmental Protection to act on Section 401 Water Quality Certification for the following application.

APPLICANT: Maple Coal Company
702 Professional Park, Suite D
Summersville, West Virginia 26651

LOCATION: The project site is located approximately 1 mile east of Greencastle, at Latitude 38° 04' 02" and Longitude 81° 21' 38" in the Toms Branch and Sycamore Branch of Paint Creek of the Kanawha River in Fayette and Kanawha Counties, West Virginia. The limits of the project site are depicted on the **Exhibits 1 and 2 of 17**.

DESCRIPTION OF THE PROPOSED WORK: The applicant proposes to discharge dredged and/or fill material into waters of the United States (U. S.), in conjunction with the construction, operation, and reclamation of the Sycamore North Surface Mine. The purpose of the proposed project is to recover bituminous coal from the Clarion, Kittanning, Coalburg, Stockton, Winifred, and Chilton coal seams. The applicant proposes to disturb approximately 659 surface acres in conjunction with proposed coal removal activities, as depicted in the attached drawings **Exhibits 3-17 of 17**. Overall, the proposed project would result in adverse impacts to approximately 14,015 linear feet (1.66 acres) of waters streams, all of which are waters of the U.S. As part of this operation, the applicant proposes to construct two permanent valley fills, identified as Valley Fill Nos. 1 and 2, maintain and existing temporary sediment control structures, identified as Pond Nos. 2 and 5, reconstruct and excavate previously breached Pond No. 1, enlarge, maintain, and operate existing Pond No. 7 maintain and operate install temporary check dams, and use and maintain four existing road crossings. The proposed valley fills and associated sediment ponds would be constructed within Toms Branch and Sycamore Branch in addition to several of their unnamed tributaries. Additionally the applicant proposed to utilize approximately 1,343 linear feet of stream located between proposed valley fills and sediment ponds, as sediment transport corridors. Construction of the proposed project would result in permanent adverse impacts to approximately 8,596 linear feet of stream, including approximately 8,067 linear feet of intermittent streams and approximately 529 linear feet of ephemeral streams. Temporary adverse impacts would total approximately 5,419 linear feet of stream associated with pond construction and operation. The life of mine is approximately 14 years. Baseline data collected for this site indicates approximately 25% of the site has been mined prior to regulation pursuant to the Surface Mining Control and Reclamation Act of 1977 (SMCRA). The site contains approximately 45,000 feet of abandoned highwalls, in addition to substantial areas of abandoned coal refuse. Upon reclamation, the site would be returned to original approximate contour (AOC). Excess overburden that could not be safely placed back on the mine bench would be placed in two valley fills and within an off site upland disposal area subject to prior mining activities. The West Virginia Department of Environmental Protection (WVDEP) is currently reviewing the Article 3 Permit application for this project (S-3007-95) pursuant to the SMCRA.

MITIGATION PLAN: To compensate for permanent and temporary adverse impacts to waters of the U. S. associated with the proposed project, the applicant has developed a compensatory mitigation plan that includes the following elements: restoration of approximately 5,419 linear feet of stream proposed to be temporarily adversely impacted as a result of this project, and restoration/enhancement of an approximately 8,000-linear foot perennial reach of Paint Creek.

WATER QUALITY CERTIFICATION: A Section 401 Water Quality Certification is required for this project. It is the applicant's responsibility to obtain certification from the WVDEP.

HISTORIC AND CULTURAL RESOURCES: The National Register of Historic Places (NRHP) has been consulted and it has been determined there are no properties currently listed on the register that are in the area affected by the project. To date, the applicant has not performed any surveys to document the presence of potential historical, cultural, or architectural sites. This Public Notice will serve as coordination with the West Virginia Division of Culture and History (WVDCH) regarding the project and its potential effects to known historical, architectural, or archeological sites listed in or eligible for inclusion in the NRHP.

ENDANGERED/THREATENED SPECIES REVIEW: The U.S. Fish and Wildlife Service's latest published version of endangered and threatened species has been reviewed to determine if any endangered or threatened species may occur in the project area. The proposed project would be located in a county where the endangered Indiana bat (*Myotis sodalis*) is known to occur. In accordance with the protocol outlined in the Draft Indiana Bat Recovery Plan, the applicant performed a bat survey within project area. No federally listed bats were captured during survey, which was performed from June and July of 2006. The site was also surveyed for the presence of Indiana bat winter habitat. Based on this survey, the applicant identified one abandoned mine portals. A mist net survey was conducted to determine potential usage of this portal. No federally listed bats were captured during this two-day survey. The results of these surveys were provided to the U.S. Fish and Wildlife Service (USFWS) for review. Based on the information provided, the USFWS concluded in a letter dated October 5, 2006, that no federally-listed threatened or endangered species are expected to be impacted by the project. Therefore, the proposed project is not likely to adversely affect federally-listed species and no further consultation under the Endangered Species Act (ESA) is required with the USFWS. This public notice serves as a request to the USFWS to provide any additional information the agency may have on the extent to which the proposed project would affect any listed or proposed to be listed endangered or threatened species, pursuant to Section 7(c) of the Endangered Species Act of 1972 (as amended).

PUBLIC INTEREST REVIEW AND COMMENT: This application will be reviewed in accordance with 33 CFR 320-331, the Regulatory Program of the U. S. Army Corps of Engineers, and other pertinent laws, regulations, and executive orders. Our evaluation will also follow the guidelines published by the U. S. Environmental Protection Agency pursuant to Section 404(b)(1) of the CWA. The decision whether to issue a permit will be based on an evaluation of the probable impact including cumulative impacts of the proposed activity on the public interest. That decision will reflect the national concern for both protection and utilization of important resources. The benefit that reasonably may be expected to accrue from the proposal must be balanced against its reasonably foreseeable detriments. All factors that may be relevant to the proposal will be considered including the cumulative effects thereof; of those are conservation, economics, aesthetics, general environmental concerns, wetlands, historic properties, fish and wildlife values, flood hazards, floodplain values, land use, navigation, shoreline 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.

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 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 and/or an Environmental Impact Statement pursuant to the National Environmental Policy Act.

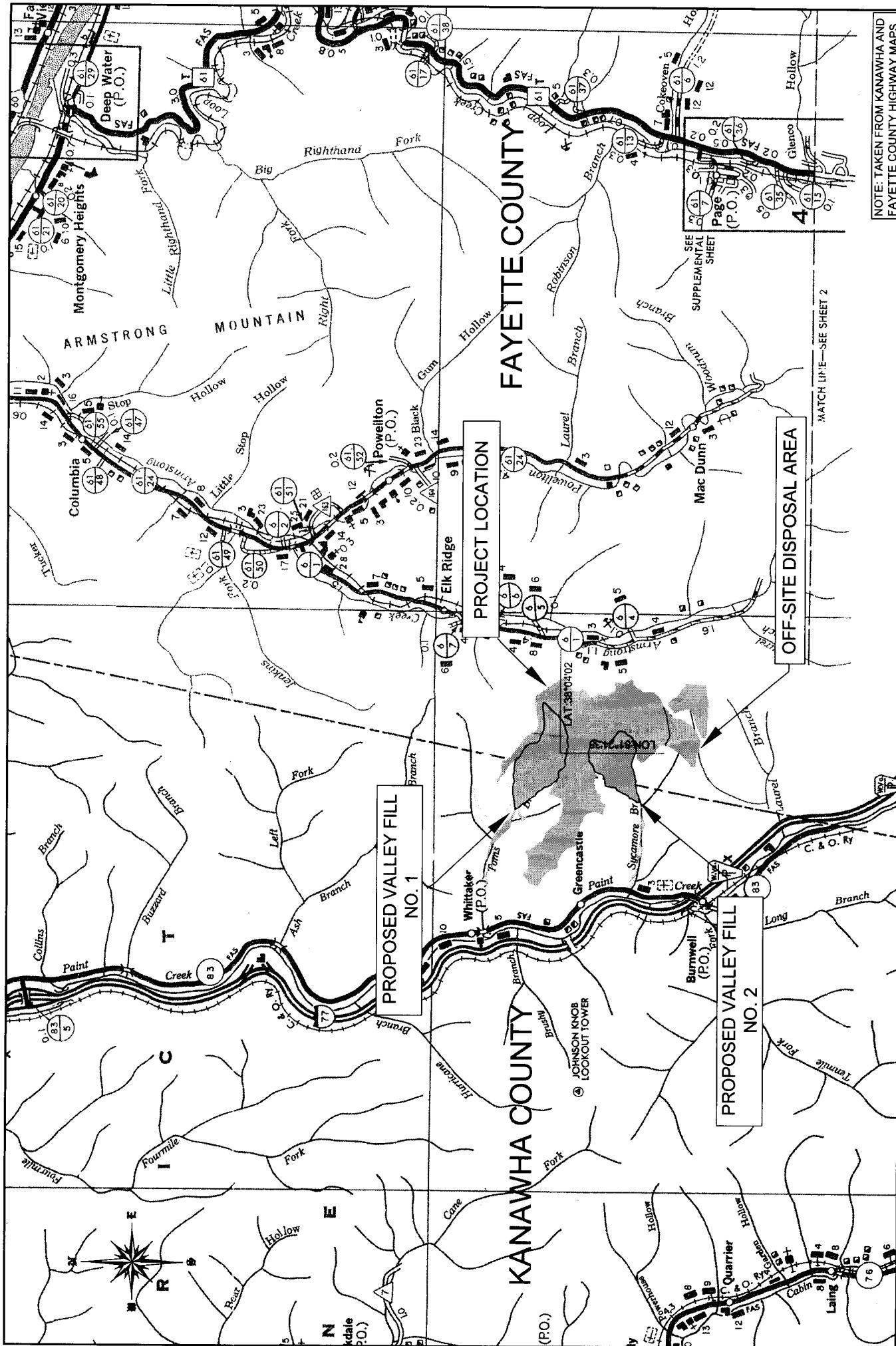
Comments are also used to determine the need for a public hearing and to determine the overall public interest of the proposed activity. Written statements on these factors received in this office on or before the expiration date of this public notice will become a part of the record and will be considered in the final determination. A permit will be granted unless its issuance is found to be contrary to the public interest.

SOLICITATION OF COMMENTS: The public notice is being distributed to all known interested persons in order to assist in developing fact upon which a decision by the District Engineer may be based. For accuracy and completeness of the record, all data in support of or in opposition to the proposed work should be submitted in writing setting forth sufficient detail to furnish a clear understanding of the reasons for support or opposition. Any person who has an interest that may be adversely affected by the issuance of a permit may request a public hearing. The request must be submitted in writing to the District Engineer on or before the expiration date of this notice and must clearly set forth the interest which may be adversely affected and the manner in which the interest may be adversely affected by the activity.

CLOSE OF COMMENT PERIOD: All comments pertaining to this Public Notice must reach this office on or before the close of the comment period listed on page one of this Public Notice. If no comments are received by that date, it will be considered that there are no objections. Comments and requests for additional information should be submitted to Ms. Jennifer Walker, Project Manager, South Regulatory Section, CELRH OR-FS; U. S. Army Corps of Engineers Huntington District; 502 Eighth Street; Huntington, West Virginia 25701-2070. Please note that names and addresses of those who submit comments in response to this public notice may be made publicly available. Thank you for your interest in our nation's water resources. If you have any questions concerning this public notice, please call Ms. Jennifer Walker of the South Regulatory Section at 304-399-6956.



Ginger Mullins, Chief
Regulatory Branch



MAPLE COAL CO.
720 Professional Park Drive
Summersville, WV 26651

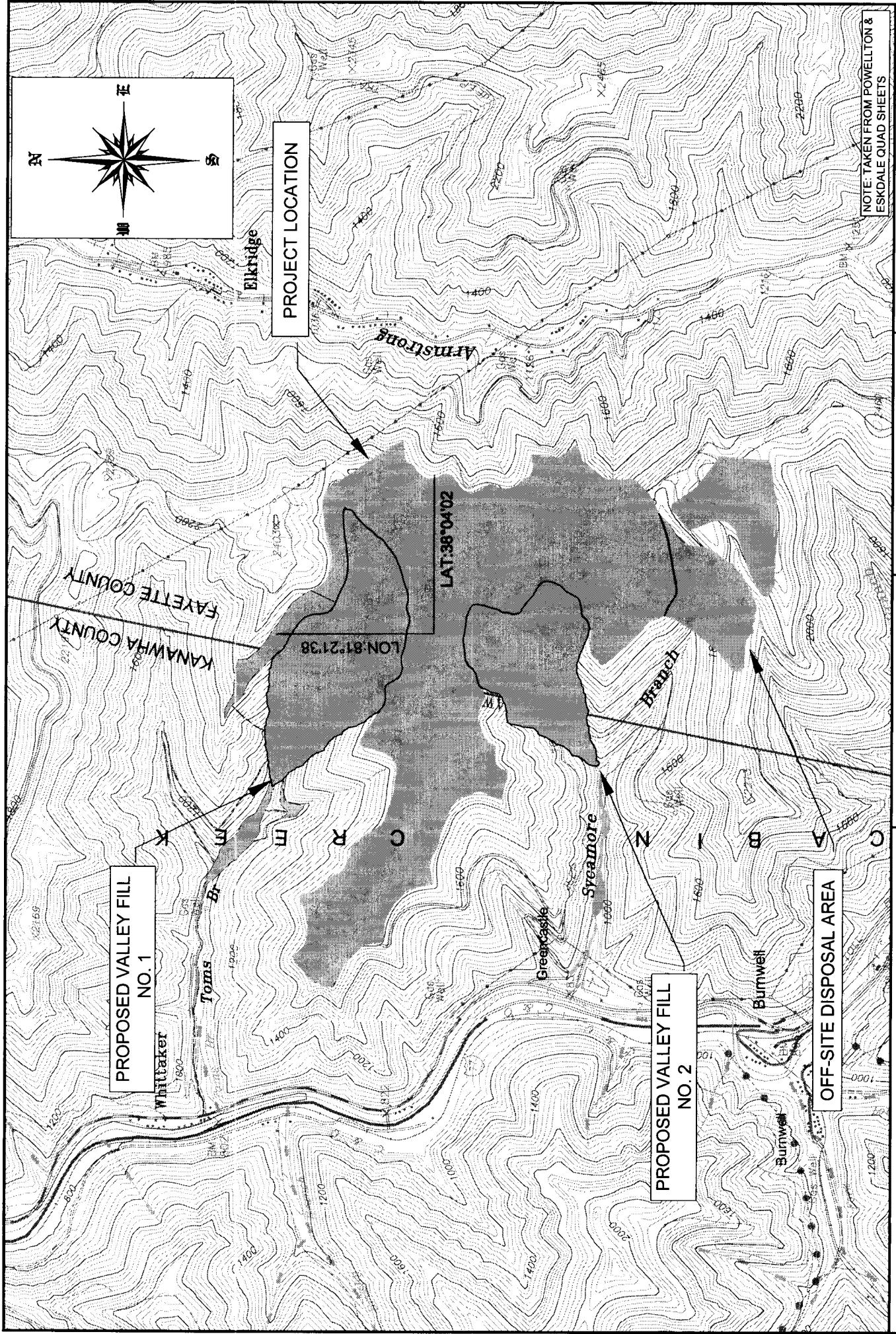
SCALE: 1" = 1 MILE

DATE: FEBRUARY

EXHIBIT: 1
OF 17

PROPOSED PROJECT ACTIVITY

**NOTE: TAKEN FROM KANAWHA AND
FAYETTE COUNTY HIGHWAY MAPS**



**PROPOSED
PROJECT ACTIVITY**

EXHIBIT: 2
OF 17

G:\DWG\27\27-150\SYCAMORE NORTH\404\EXHIBITS 2.DWG

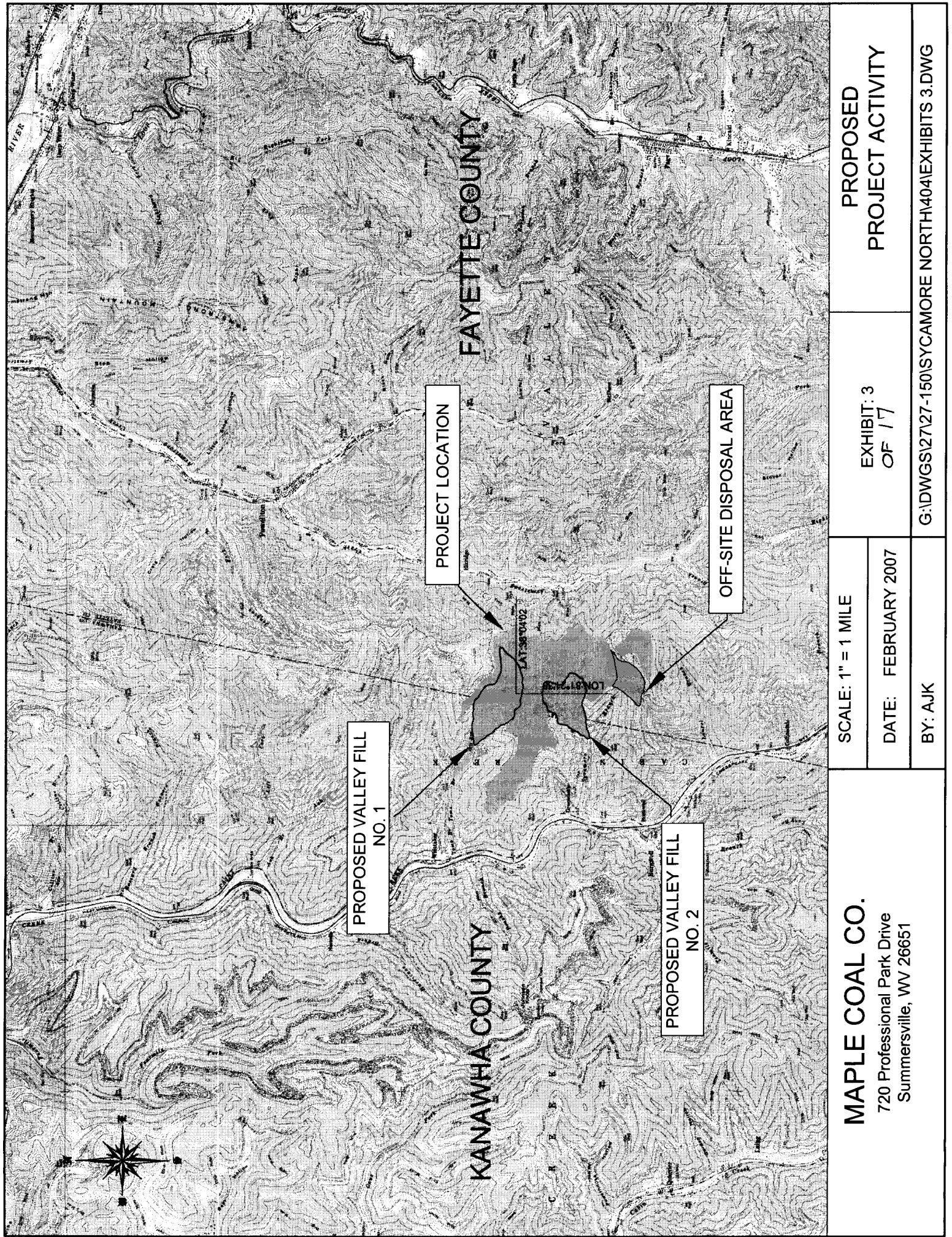
MAPLE COAL CO.
720 Professional Park Drive
Summersville, WV 26651

PROPOSED
PROJECT ACTIVITY

SCALE: 1" = 2,000'

DATE: FEBRUARY 2007

BY: AJK



AREA OF INTEREST
FOR WETLAND
DELINEATION

AREA OF INTEREST FOR
STREAM DELINEATIONS

PAINT CREEK

ARMSTRONG CREEK

JURISDICTIONAL WATERS

NON-JURISDICTIONAL WATERS

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SCALE: 1" = 2,000'
DATE: FEBRUARY 2007
DRWN BY: AJK

EXHIBIT: 4 OF 17

LOCATION OF DELINEATED
WATERS

G:\DWG\27\27-150\SYAMORE NORHT V404\EXHIBIT 4.DWG



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720 Professional Park Drive
Summersville, WV 26651

SCALE: AS SHOWN

DATE: FEBRUARY 2007

BY: AJK

EXHIBIT: 5 (A)
OF 17

KANAWHA COUNTY
SOIL MAP

G:\DWGS\27\27-150\SYCAMORE NORTH\404\EXHIBIT 5(A)4(B).DWG



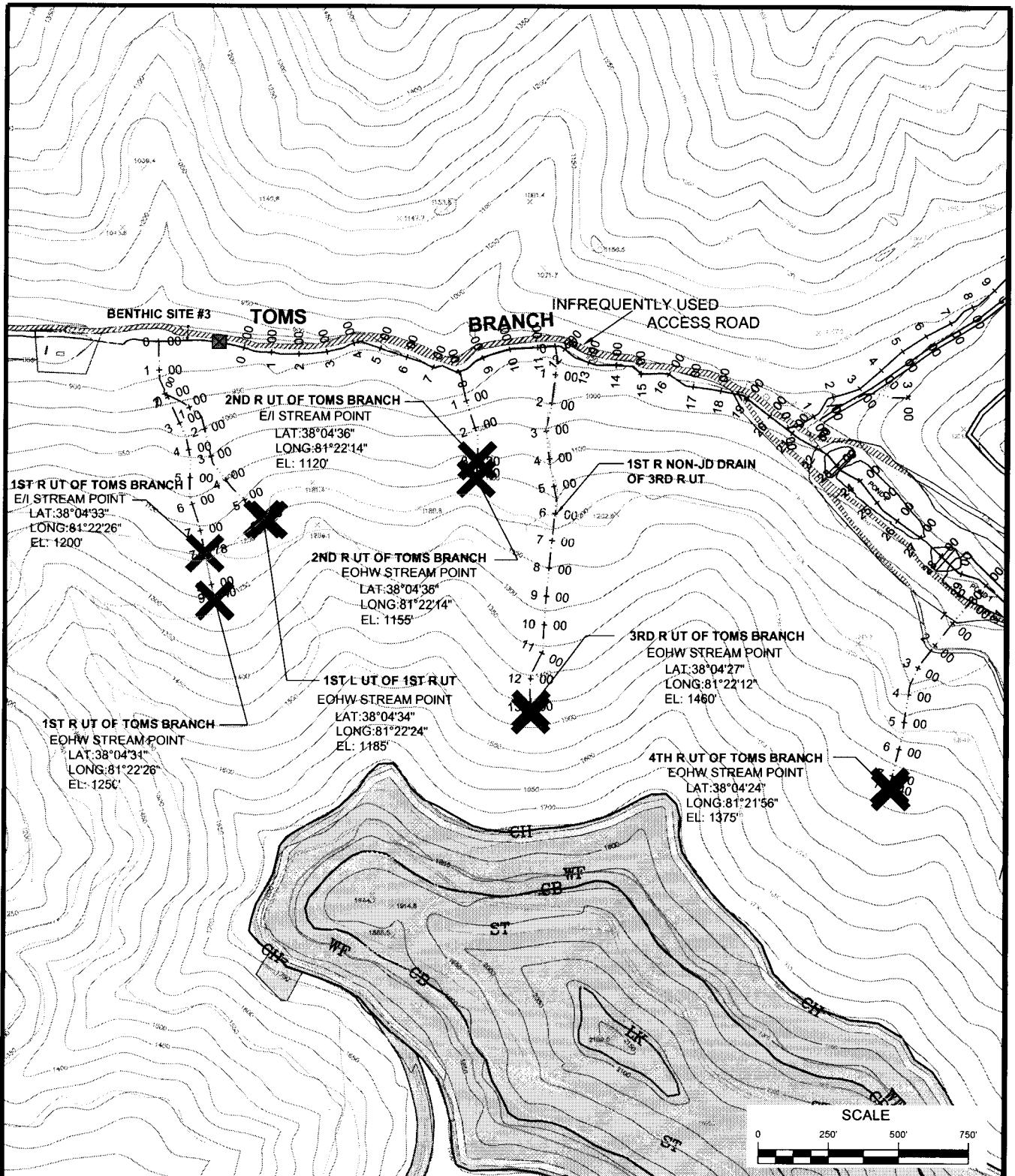
FAYETTE COUNTY
SOIL MAP

EXHIBIT: 5 (B)
OF 17

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SCALE: AS SHOWN
DATE: FEBRUARY 2007
BY: AJK

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702 Professional Park Drive, Suite D
Summersville, WV 26651

SYCAMORE NORTH SURFACE MINE

STREAM DELINEATION MAP

EXHIBIT 6 (A)

OF 17

WVDEP ARTICLE 3 PERMIT NO. S-3007-95 NPDES NO. WV1009311

CABIN CREEK & VALLEY DISTRICTS
NAD 27, WV SOUTH ZONE, CONTOUR INTERVAL - 50'
POWLTON & ESKDALE QUADRANGLES

KANAWHA & FAYETTE COUNTIES
NAD 27, WV SOUTH ZONE, CONTOUR INTERVAL - 50'
POWLTON & ESKDALE QUADRANGLES

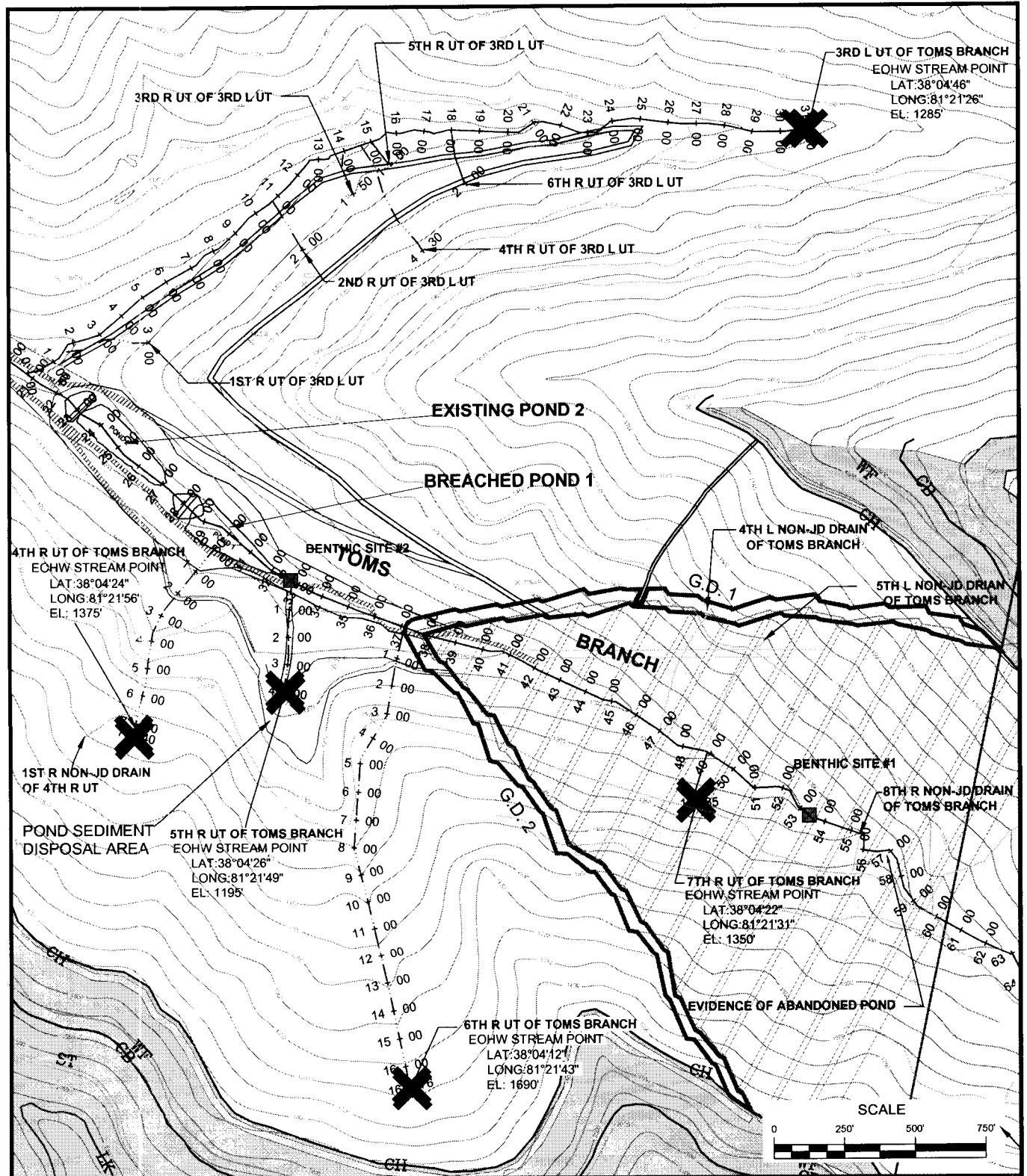
DATE: FEBRUARY 2007

DRAWING NO 27-132-37C4M0RENORTH-144-EXHIBIT6.DWG

SHEET 1 OF 8

LEGEND	
	STREAM DELINEATION BASELINE
	EPHEMERAL/INTERMITTENT CONVERSION POINT
	END OF ORDINARY HIGH WATER MARK
	BIOLOGICAL SURVEY STATION
	INTERMITTENT STREAM
	EPHEMERAL STREAM
	NON-JURISDICTIONAL STREAM
	PROPOSED / ADJACENT PERMIT





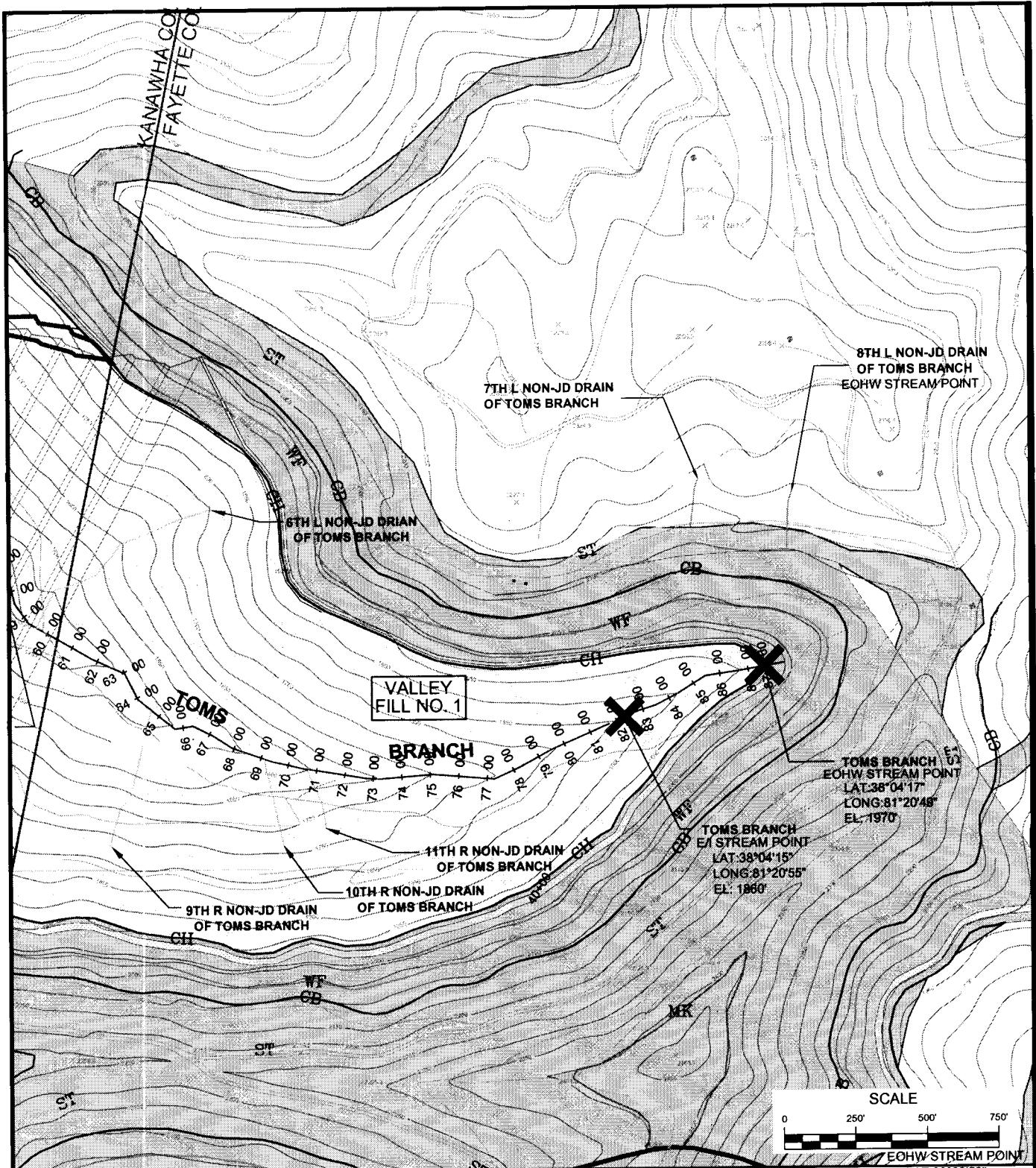
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Summersville, WV 26651

SYCAMORE NORTH SURFACE MINE
STREAM DELINEATION MAP

EXHIBIT 6 (B) OF 17

WVDEP ARTICLE 3 PERMIT NO. S-3007-95 NPDES NO. WV1009311
CABIN CREEK & VALLEY DISTRICTS KANAWHA & FAYETTE COUNTIES
NAD 27, WV SOUTH ZONE, CONTOUR INTERVAL - 50'
POWLTON & ESKDALE QUADRANGLES

DATE: FEBRUARY 2007	DRAWING NO 27-150-SYCAMORENORTH-404-EXHIBIT6.DWG
SHEET 2 OF 8	



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Summersville, WV 26651

SYCAMORE NORTH SURFACE MINE

STREAM DELINEATION MAP

EXHIBIT 6 (C) OF 17

WVDEP ARTICLE 3 PERMIT NO. S-3007-95 NPDES NO. WV1009311

CABIN CREEK & VALLEY DISTRICTS KANAWHA & FAYETTE COUNTIES
NAD 27, WV SOUTH ZONE, CONTOUR INTERVAL - 50'
POWELLTON & ESKDALE QUADRANGLES

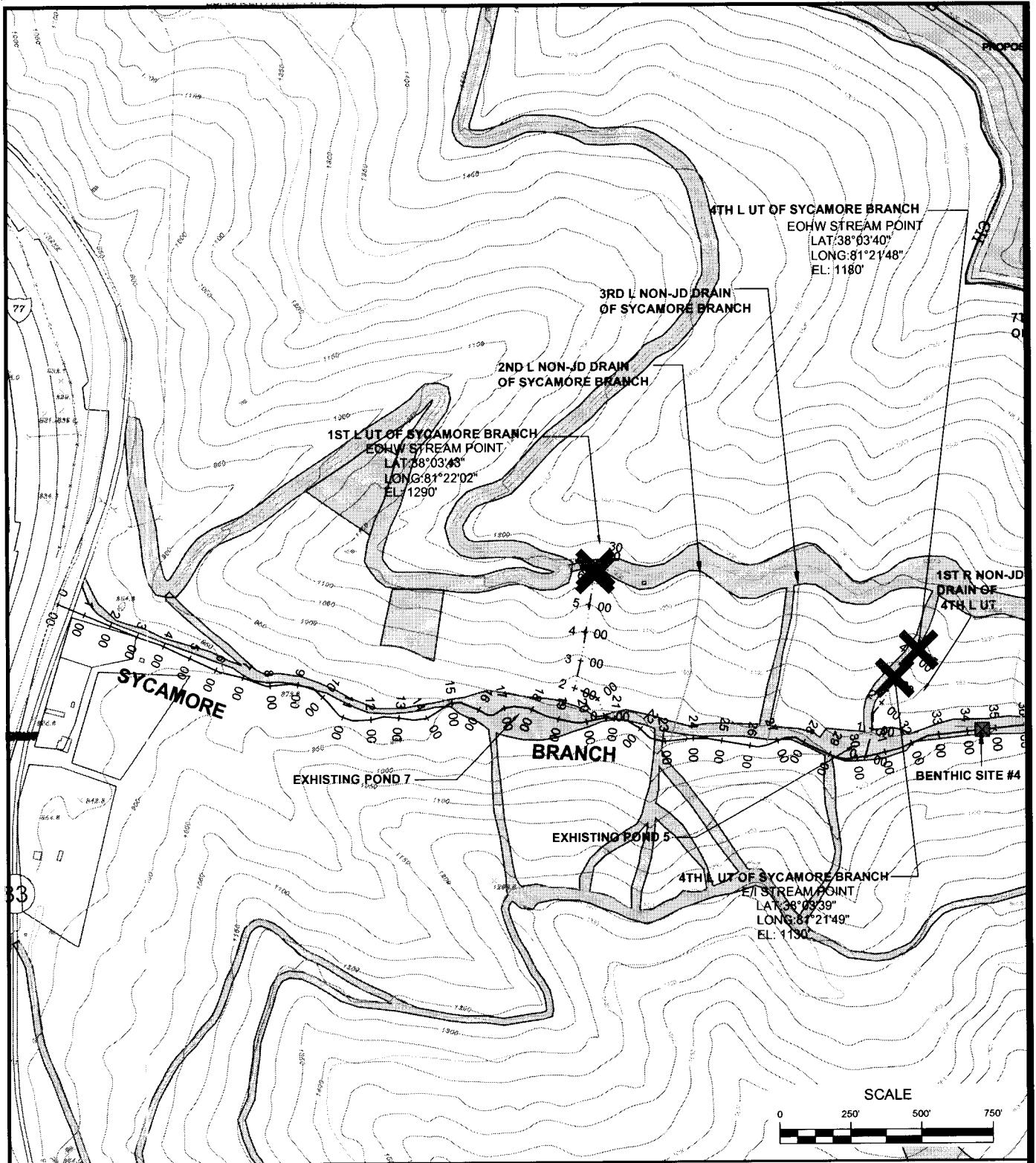
DATE: FEBRUARY 2007

DRAWING NO 27-150-SYCAMORENORTH-404-EXHIBITS DWG

SHEET 3 OF 8



LEGEND	
—	STREAM DELINEATION BASELINE
X	EI Ephemeral/Intermittent Conversion Point
X	EOHW End of Ordinary High Water Mark
[Black square]	BIOLOGICAL SURVEY STATION
— — —	INTERMITTENT STREAM
— — —	EPHEMERAL STREAM
— — —	NON-JURISDICTIONAL STREAM
[Solid black bar]	PROPOSED / ADJACENT PERMIT



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SYCAMORE NORTH SURFACE MINE
STREAM DELINEATION MAP

EXHIBIT 6 (D) OF 17

WVDEP ARTICLE 3 PERMIT NO. S-3007-95 NPDES NO. WV1009311

CABIN CREEK & VALLEY DISTRICTS KANAWHA & FAYETTE COUNTIES
NAD 27, WV SOUTH ZONE, CONTOUR INTERVAL - 50'
POWLTON & ESKDALE QUADRANGLES

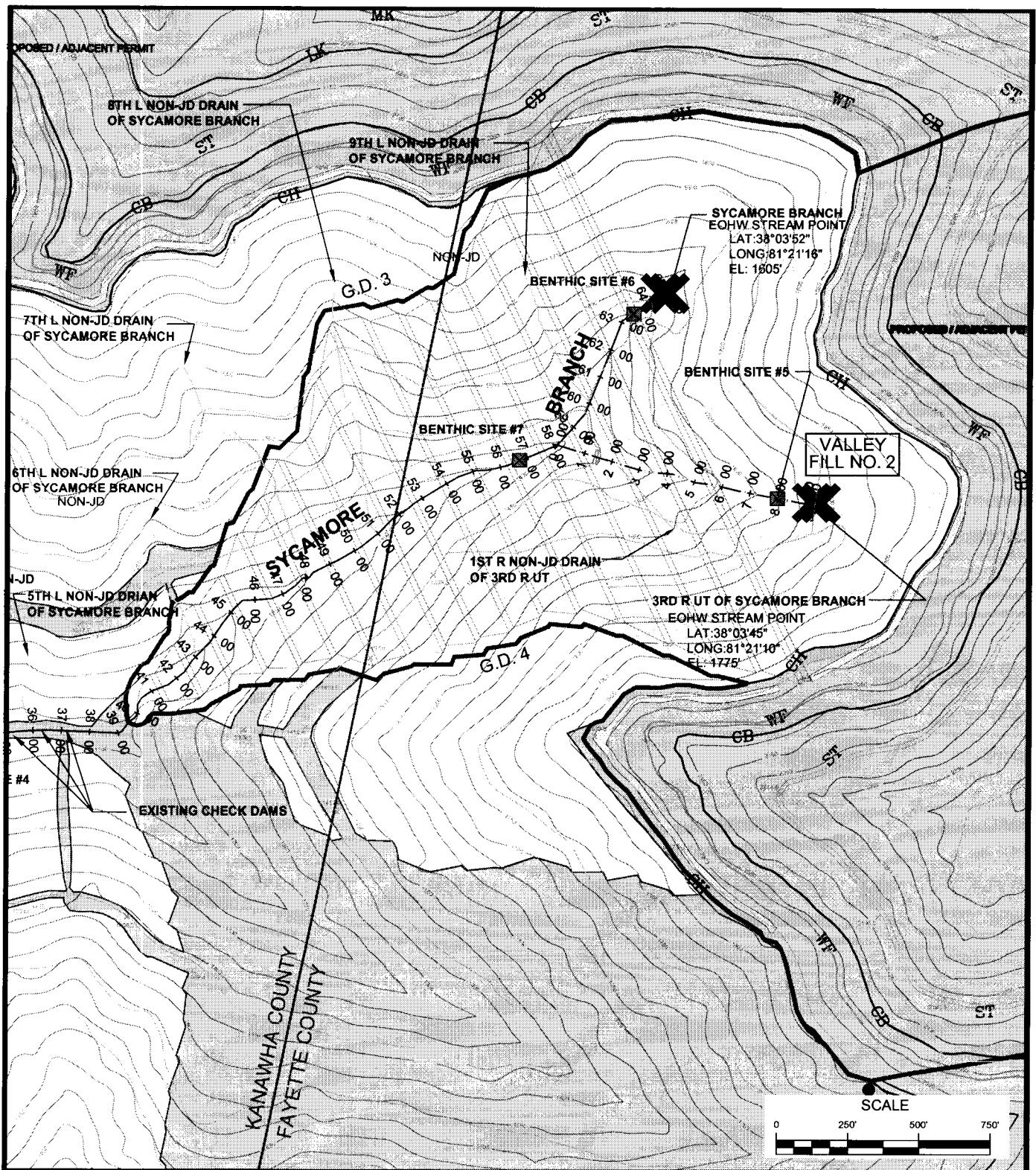
DATE: FEBRUARY 2007

DRAWING NO 27-150-SYCAMORENORTH-404-EXHIBIT6.DWG

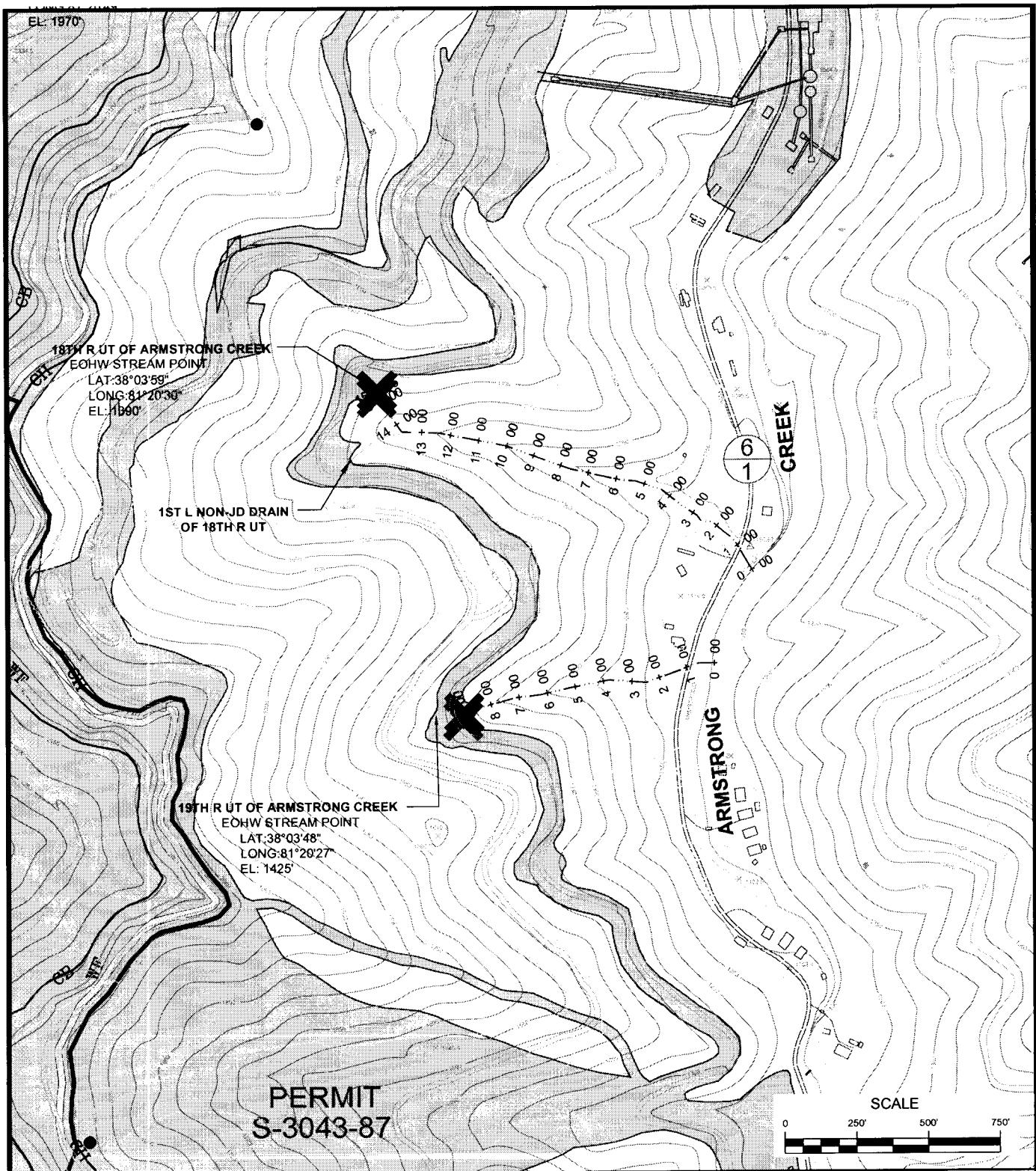
SHEET 4 OF 8

LEGEND	
<u>STREAM DELINEATION BASELINE</u>	
X	EAI Ephemeral/Intermittent Conversion Point
X	EOHW End of Ordinary High Water Mark
■	BIOLOGICAL SURVEY STATION
—	INTERMITTENT STREAM
- - -	EPHEMERAL STREAM
—	NON-JURISDICTIONAL STREAM
■	PROPOSED / ADJACENT PERMIT

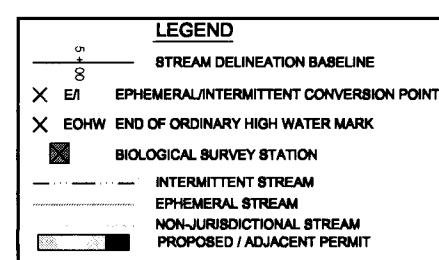
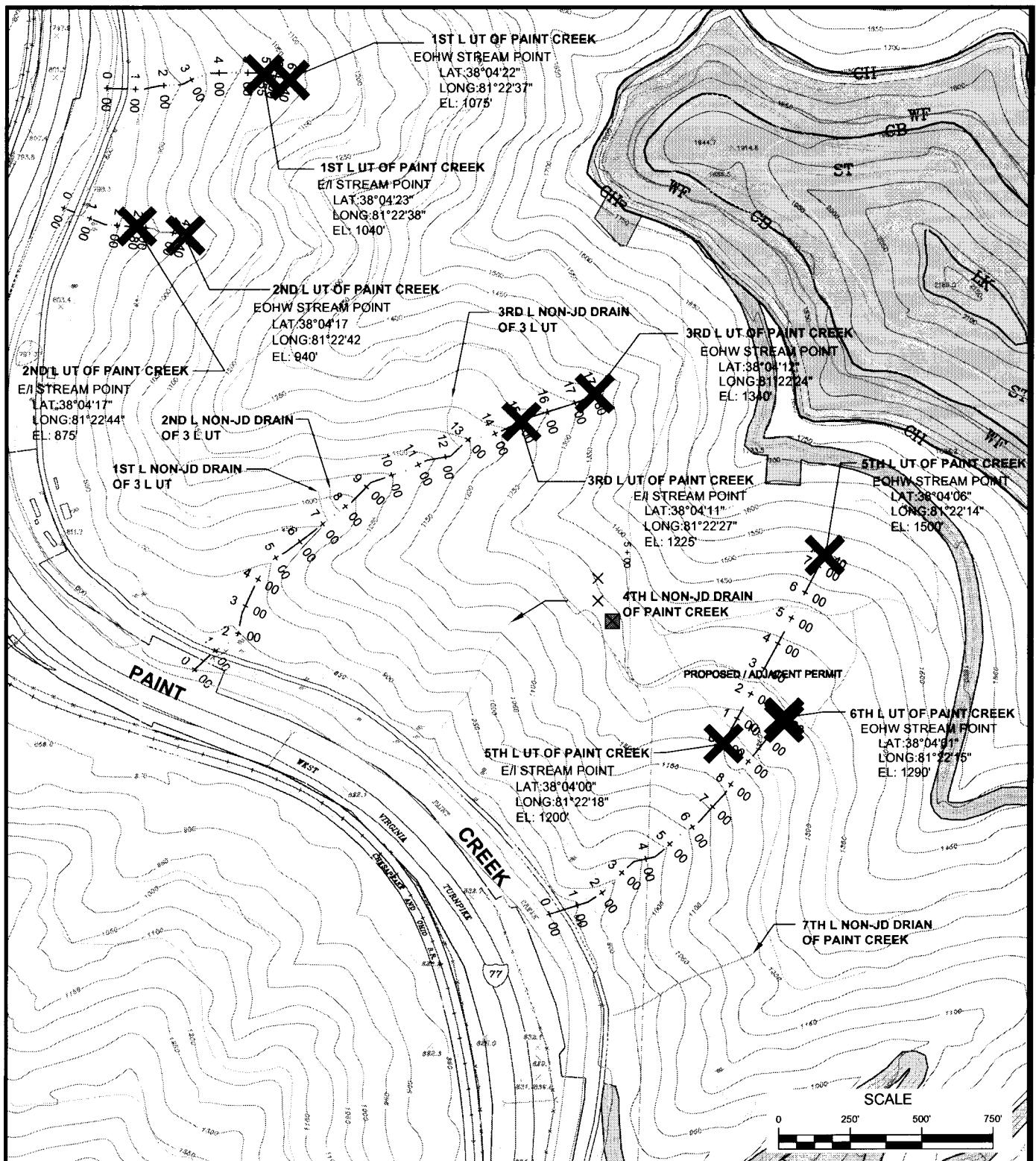




 	LEGEND <ul style="list-style-type: none"> STREAM DELINEATION BASELINE EPHEMERAL/INTERMITTENT CONVERSION POINT (X E/I) END OF ORDINARY HIGH WATER MARK (X EOHW) BIOLOGICAL SURVEY STATION (Black Box) INTERMITTENT STREAM (Dashed Line) EPHEMERAL STREAM (Dotted Line) NON-JURISDICTIONAL STREAM (Solid Line) PROPOSED / ADJACENT PERMIT (Gray Box) 	MAPLE COAL CO. 702 Professional Park Drive, Suite D Summersville, WV 26651
		SYCAMORE NORTH SURFACE MINE STREAM DELINEATION MAP EXHIBIT 6 (E) OF 17
WVDEP ARTICLE 3 PERMIT NO. S-3007-95 NPDES NO. WV1009311 CABIN CREEK & VALLEY DISTRICTS KANAWHA & FAYETTE COUNTIES NAD 27, WV SOUTH ZONE, CONTOUR INTERVAL - 50' POWELLTON & ESKDALE QUADRANGLES DATE: FEBRUARY 2007 DRAWING NO 27-150-SYCAMORENORTH-404-EXHIBIT6.DWG SHEET 5 OF 8		



	LEGEND STREAM DELINEATION BASELINE X E/ Ephemeral/Intermittent Conversion Point X EOHW End of Ordinary High Water Mark ■ Biological Survey Station - - - Intermittent Stream - - Ephemeral Stream - . Non-Jurisdictional Stream PROPOSED / ADJACENT PERMIT	MAPLE COAL CO. 702 Professional Park Drive, Suite D Summersville, WV 26651 SYCAMORE NORTH SURFACE MINE STREAM DELINEATION MAP EXHIBIT 6 (F) OF 17 WV/DEP ARTICLE 3 PERMIT NO. S-3007-95 NPDES NO. WV1009311 CABIN CREEK & VALLEY DISTRICTS KANAWHA & FAYETTE COUNTIES NAD 27, WV SOUTH ZONE, CONTOUR INTERVAL - 50' POWELLTON & ESKDALE QUADRANGLES DATE: FEBRUARY 2007 DRAWING NO 27-150-SYCAMORENORTH-404-EXHIBIT6.DWG SHEET 6 OF 8
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MAPLE COAL CO.
702 Professional Park Drive, Suite D
Summersville, WV 26651

SYCAMORE NORTH SURFACE MINE
STREAM DELINEATION MAP

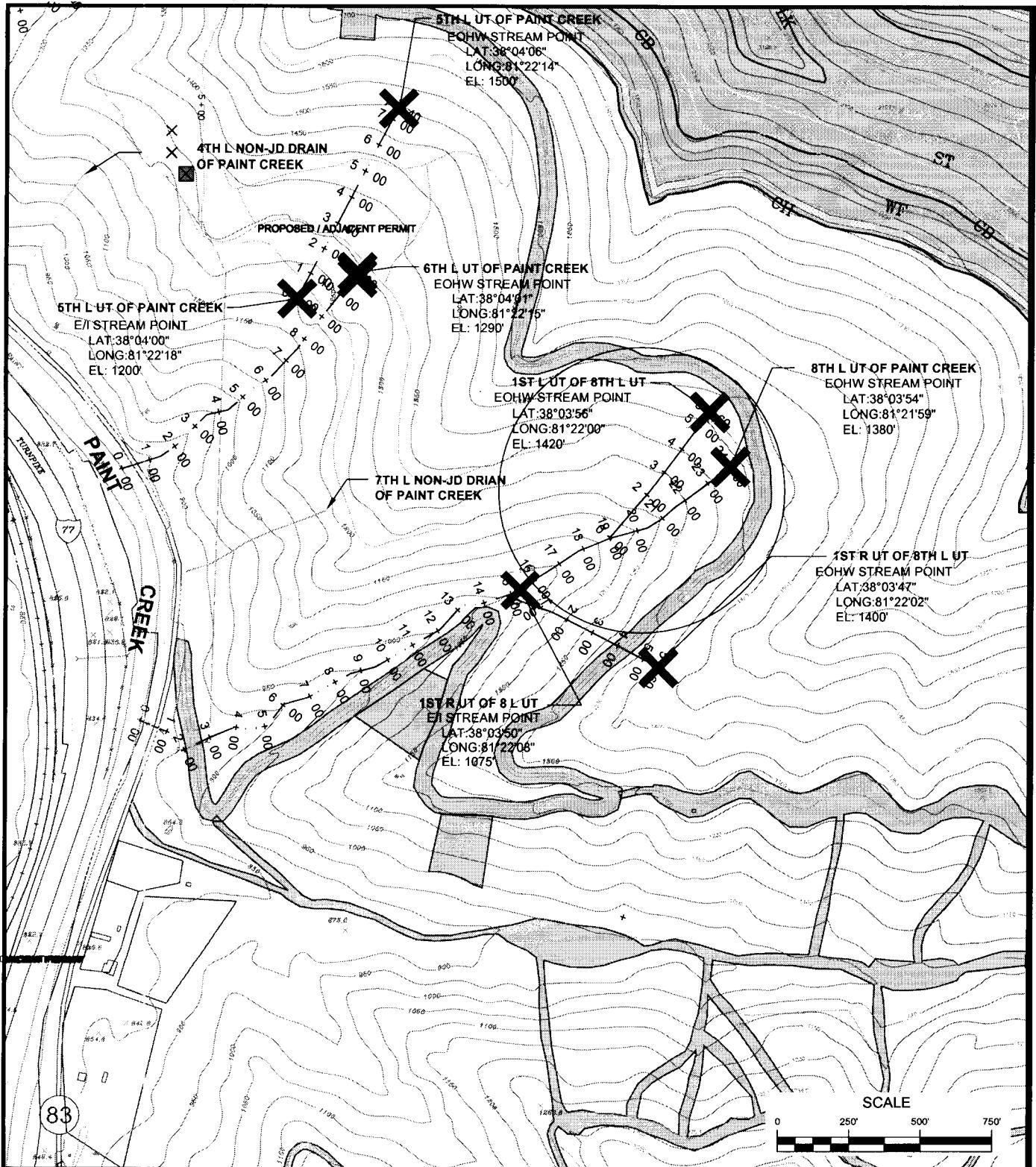
EXHIBIT 6 (G) OF 17

WVDEP ARTICLE 3 PERMIT NO. S-3007-95 NPDES NO. WV1009311
CABIN CREEK & VALLEY DISTRICTS KANAWHA & FAYETTE COUNTIES
NAD 27, WV SOUTH ZONE, CONTOUR INTERVAL - 50'
POWLTON & ESKDALE QUADRANGLES

DATE: FEBRUARY 2007

DRAWING NO 27-150-SYCAMORENORTH-404-EXHIBIT6.DWG

SHEET 7 OF 8



MAPLE COAL CO.
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Summersville, WV 26651

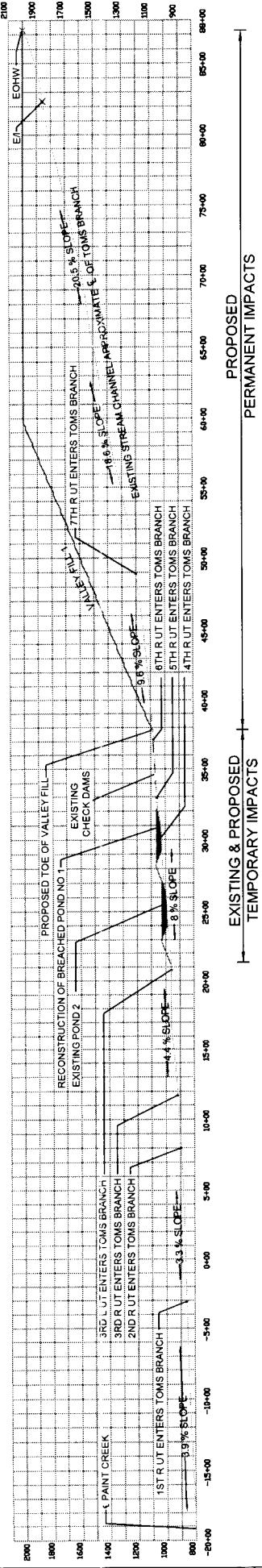
**SYCAMORE NORTH SURFACE MINE
STREAM DELINEATION MAP**

EXHIBIT 6 (H) OF 17

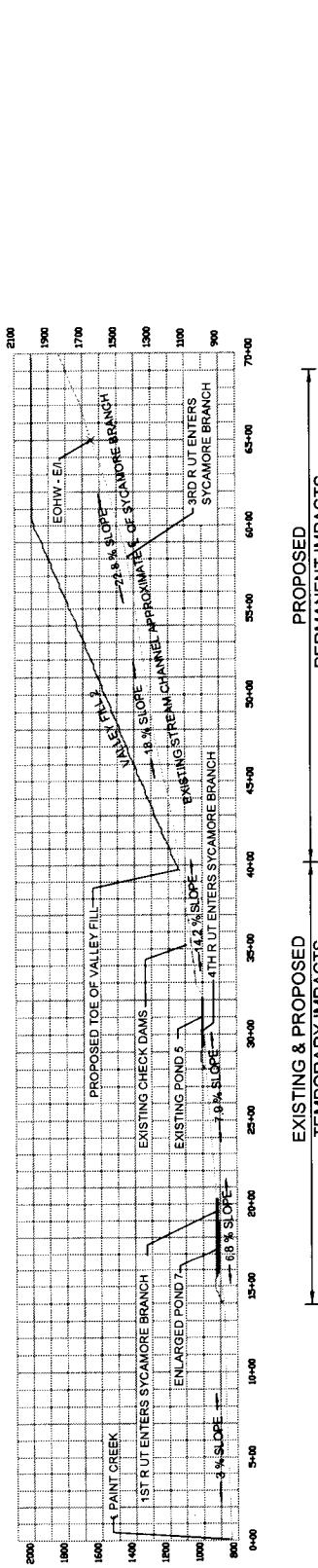
WVDEP ARTICLE 3 PERMIT NO. S-3007-95 NPDES NO. WV1009311	
CABIN CREEK & VALLEY DISTRICTS	KANAWHA & FAYETTE COUNTIES
NAD 27, WV SOUTH ZONE, CONTOUR INTERVAL - 50'	POWLTON & ESKDALE QUADRANGLES
DATE: FEBRUARY 2007	SHEET 8 OF 8

LEGEND	
	STREAM DELINEATION BASELINE
	EI EPHEMERAL/INTERMITTENT CONVERSION POINT
	EOHW END OF ORDINARY HIGH WATER MARK
	BIOLOGICAL SURVEY STATION
	INTERMITTENT STREAM
	EPHEMERAL STREAM
	NON-JURISDICTIONAL STREAM
	PROPOSED / ADJACENT PERMIT

TOMS BRANCH STREAM CHANNEL



SYCAMORE BRANCH STREAM CHANNEL



PROPOSED AND EXISTING
IMPACTS

EXHIBIT: 7
OF 17

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SCALE: AS SHOWN

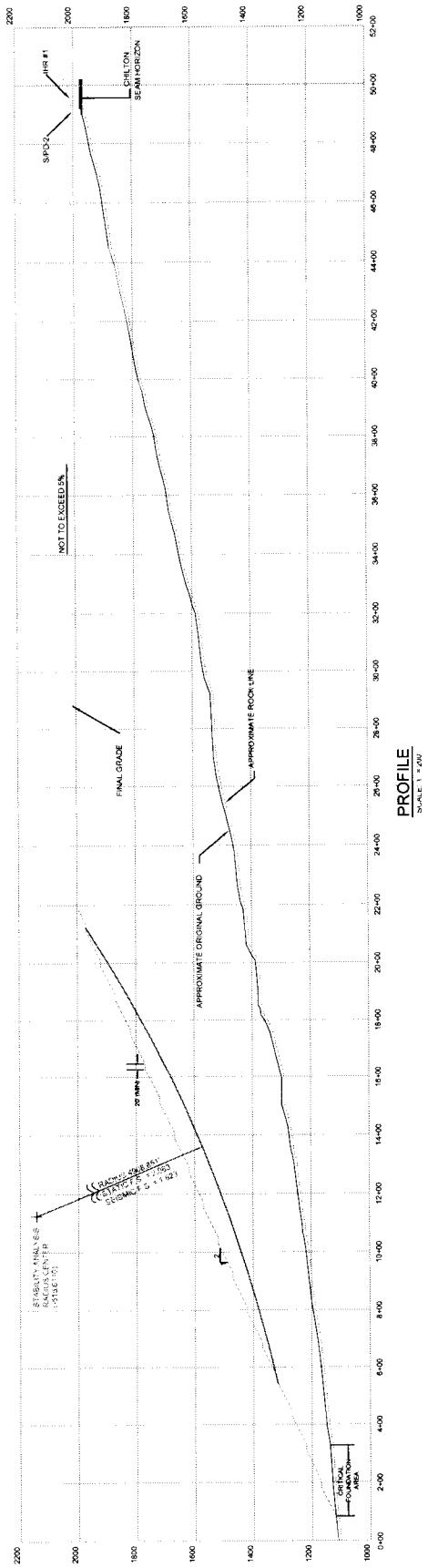
DATE: FEBRUARY 2007

DRWN BY: AJK

MAPLE COAL CO.
720 Professional Park Drive
Summersville, WV 26651



MAPLE COAL CO. 720 Professional Park Drive Summersville, WV 26651		SCALE: 1" = 500' DATE: FEBRUARY 2007 BY: AJK	EXHIBIT: 8 (A) OF 17	VALLEY FILL NO.1 DESIGN (TOMS BRANCH)
		G:\Dwg\27\27-150\Sycamore North\404\Exhibit 8.dwg		

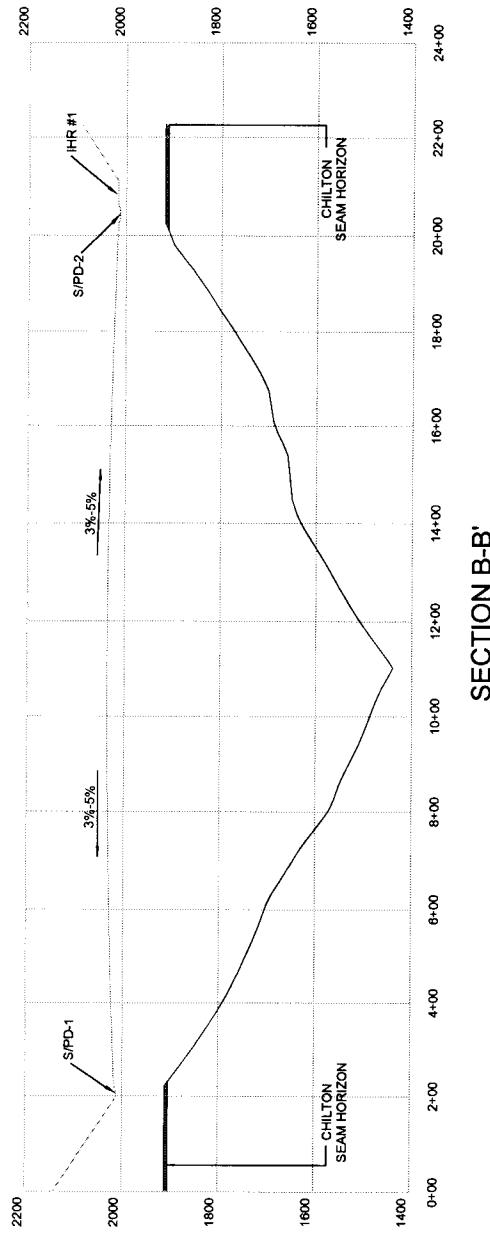
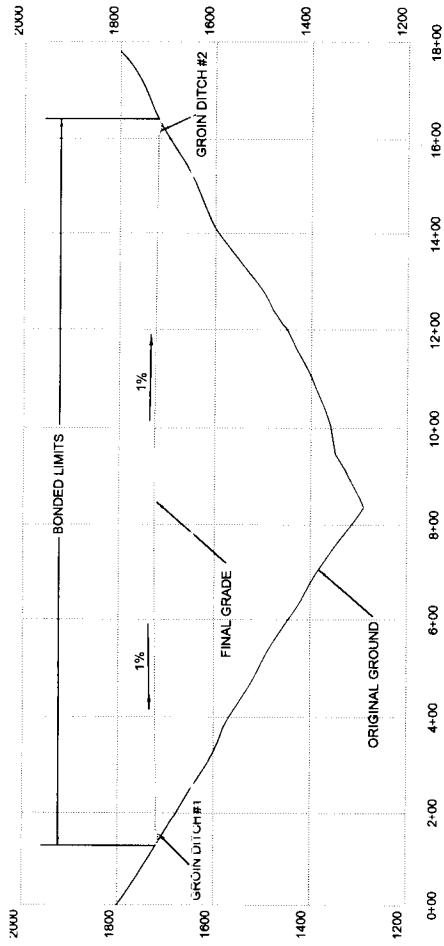


MATERIAL PROPERTIES					
DESCRIPTION	EFFECTIVE SHEAR STRENGTH PARAMETERS				
	TOTAL UNIT WEIGHT PSF	COHESION PSF	FRICITION ANGLE DEGREES	COHESION PSF	FRICITION ANGLE DEGREES
NATURAL SOIL	125	35	100		
DURABLE ROCK	130	40	100		

NOTES:
 MATERIAL PROPERTIES FOR NATURAL SOIL AND DURABLE
 ROCK ARE FROM THE ORIGINAL PERMIT APPLICATION.
 REFUSE PROPERTIES ARE BASED ON 2006 TESTING.
 COHESION IS APPLIED ON RECOMMENDATION BY THE
 AUTHOR OF THE SLOPE STABILITY SOFTWARE USED TO
 ANALYZE THIS STRUCTURE.

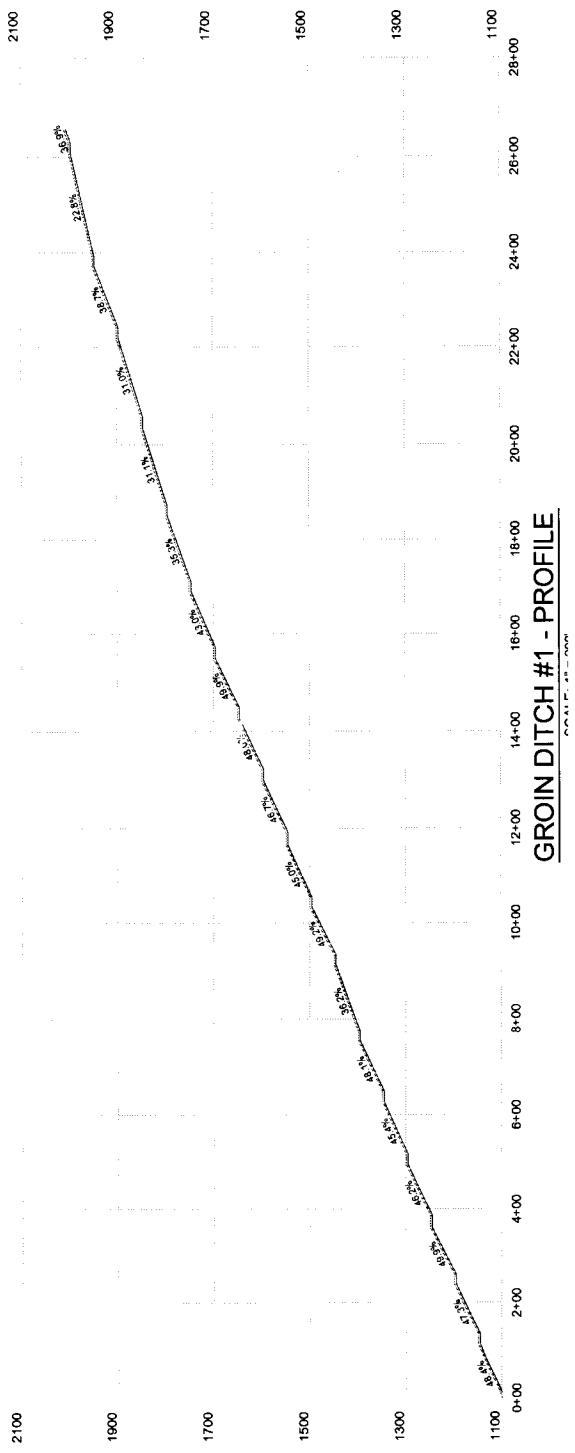
MAPLE COAL CO.
 720 Professional Park Drive
 Summersville, WV 26651

SCALE: 1" = 600'	EXHIBIT: 8 (B)	VALLEY FILL NO. 1
DATE: FEBRUARY 2007	OF 17	DESIGN
BY: AJK	G:\Dwg\27\27-150\Sycamore North\404\Exhibit 8.dwg (TOMS BRANCH)	

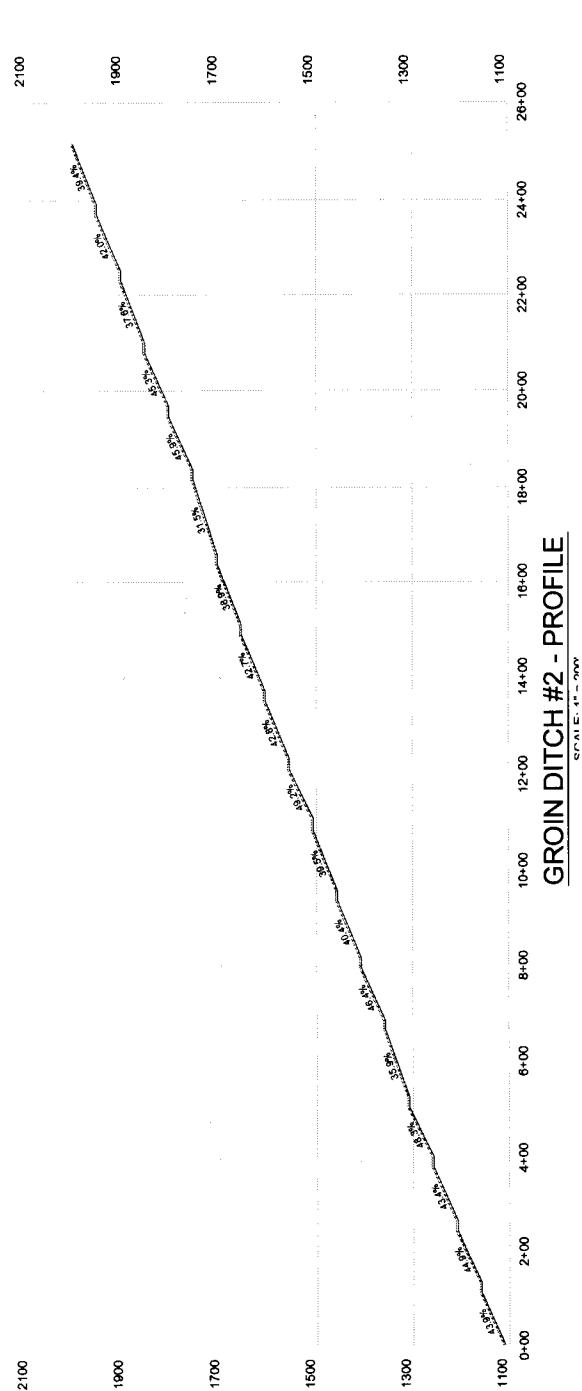


MAPLE COAL CO.
720 Professional Park Drive
Summersville, WV 26651

SCALE: 1" = 400'	EXHIBIT: 8 (C)	VALLEY FILL NO.1
DATE: FEBRUARY 2007	OF 17	DESIGN
BY: AJK		(TOMS BRANCH) G:\Dwgs\27127-150\Sycamore North\404\Exhibit 8.dwg



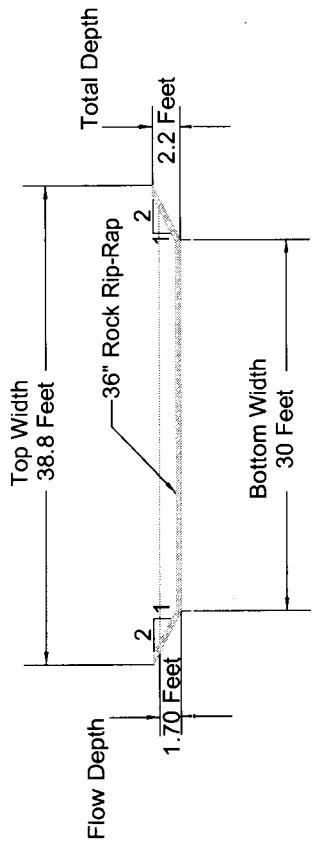
GROIN DITCH #1 - PROFILE



GROIN DITCH #2 - PROFILE

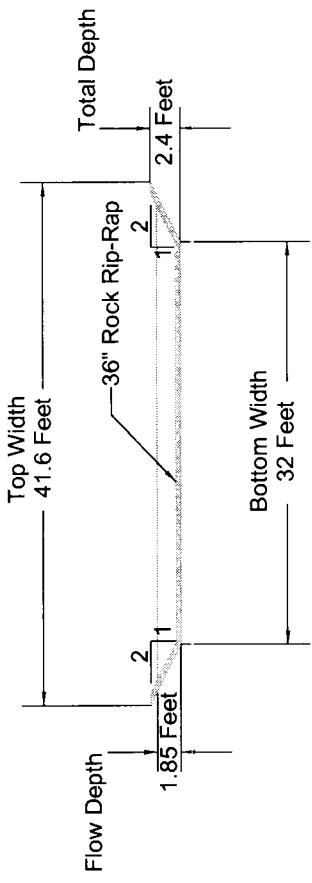
MAPLE COAL CO. 720 Professional Park Drive Summersville, WV 26651	SCALE: 1" = 400'	EXHIBIT: 8 (D) OF 17	VALLEY FILL NO. 1 DESIGN (TOMS BRANCH)
	DATE: FEBRUARY 2007 BY: AJK		

G:\Dwgs\27\27-150\Sycamore North\404\Exhibit 8.dwg



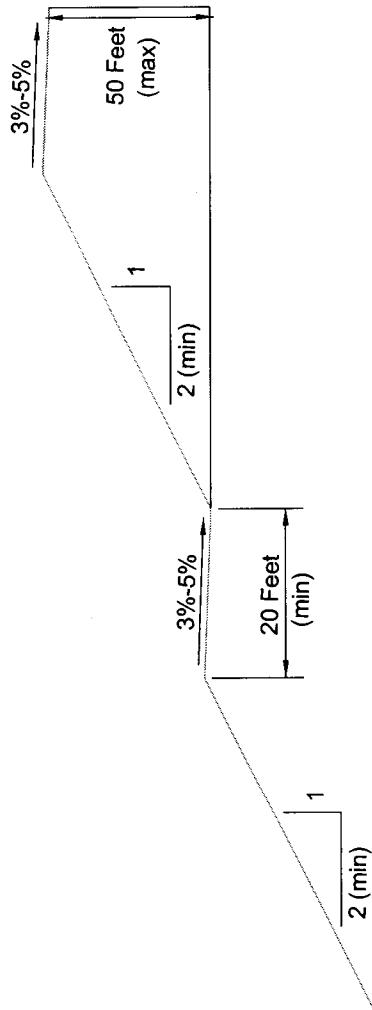
GROIN DITCH #1

N.T.S.



GROIN DITCH #2

N.T.S.

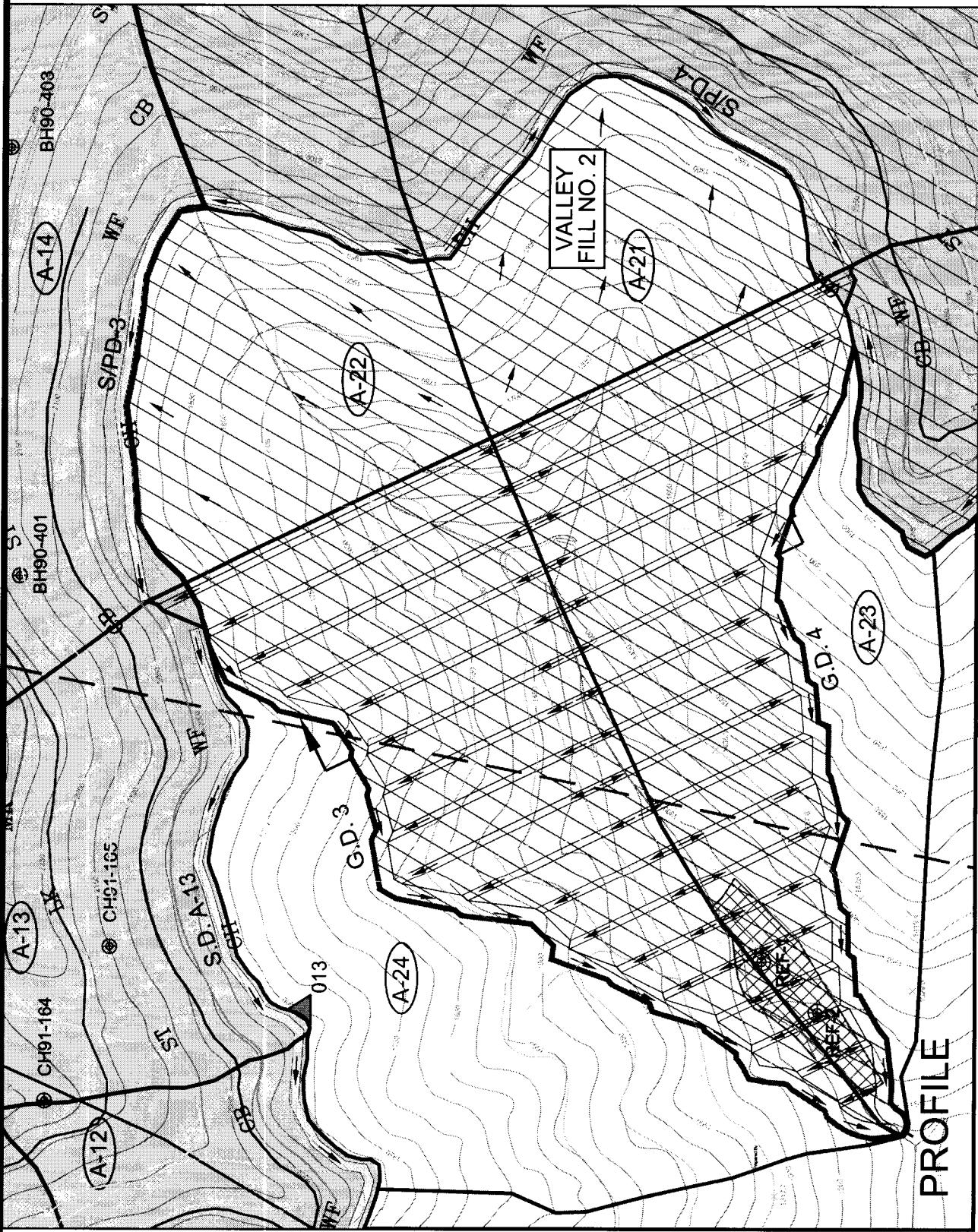


BENCH DETAIL

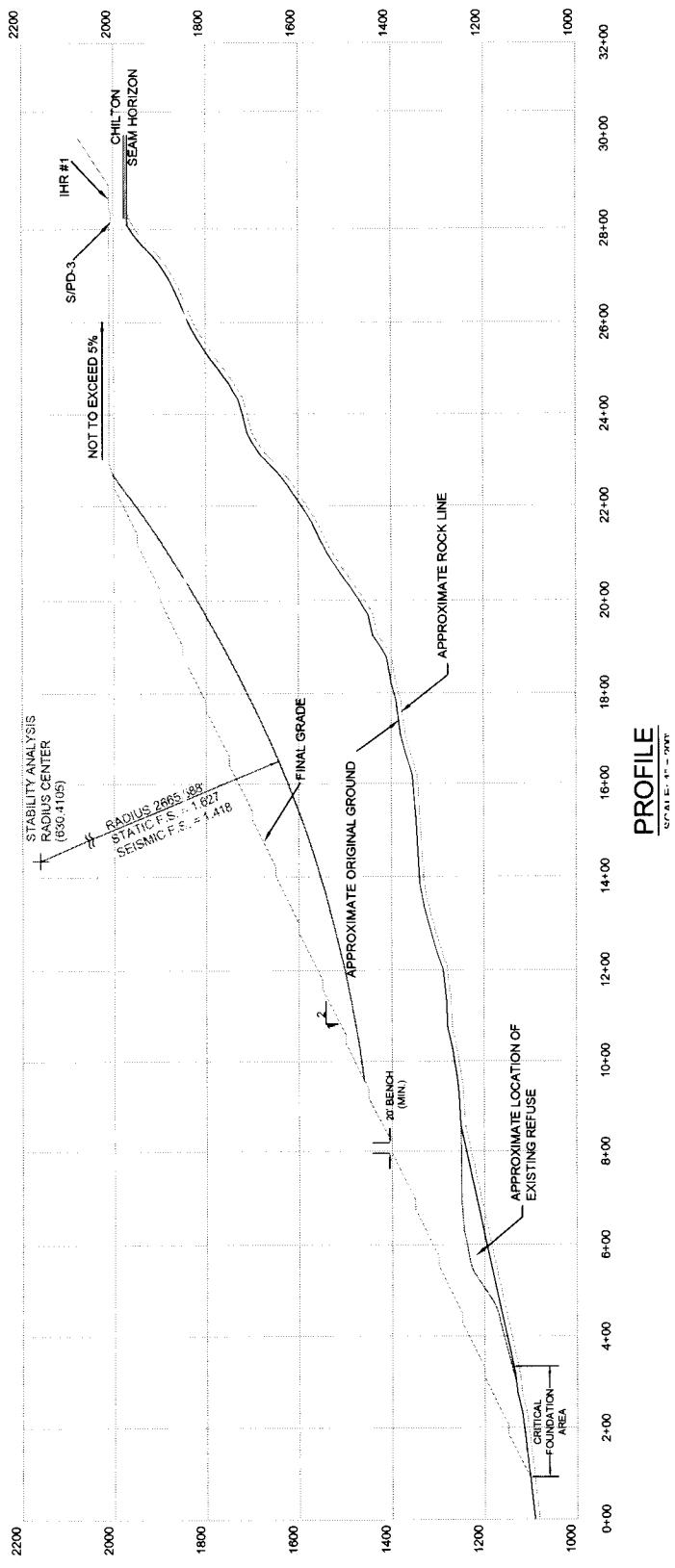
N.T.S.

MAPLE COAL CO.
720 Professional Park Drive
Summersville, WV 26651

SCALE: NTS	EXHIBIT: 8 (E)	VALLEY FILL NO.1
DATE: FEBRUARY 2007	OF 17	DESIGN
BY: AJK	G:\Dwgs\27\27-150\Sycamore North\404\Exhibit 8.dwg	(TOMS BRANCH)



MAPLE COAL CO.	SCALE: 1" = 400'	EXHIBIT: 9 (A)	VALLEY FILL NO. 2 DESIGN (SYCAMORE BRANCH)
720 Professional Park Drive Summersville, WV 26651	DATE: FEBRUARY 2007	OF 1 1	G:\Dwg\27127-150\Sycamore North\404\Exhibit 9.dwg
BY: AJK			

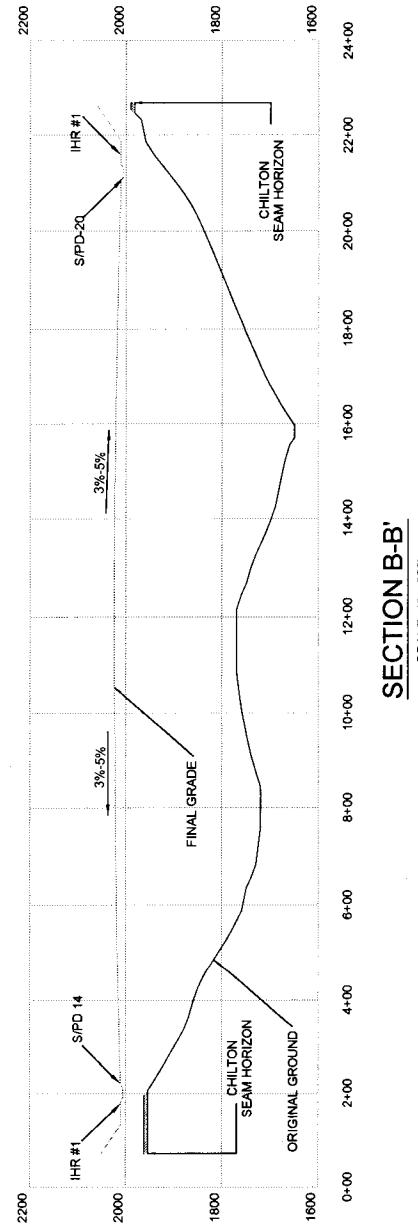
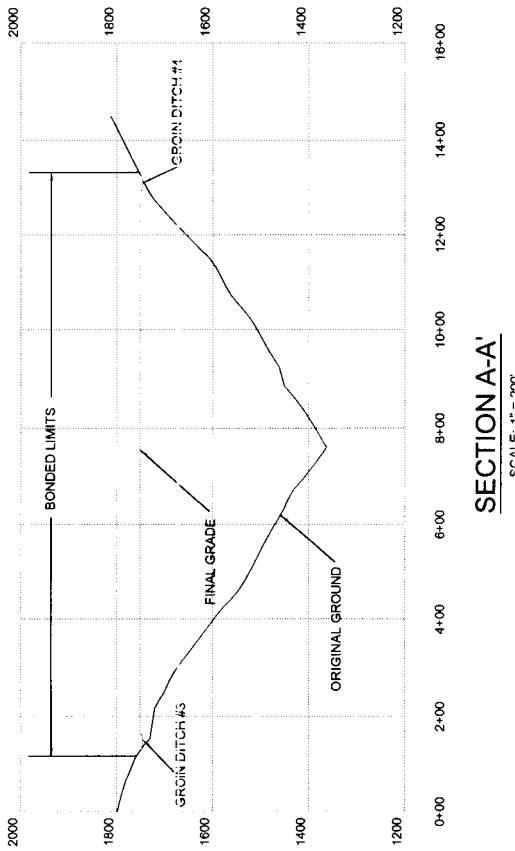


MATERIAL PROPERTIES					
DESCRIPTION	TOTAL UNIT WEIGHT PCF	EFFECTIVE SHEAR STRENGTH PARAMETERS			
		FRICITION ANGLES DEGREES	COHESION PSF	ANGLE DEGREES	COHESION PSF
NATURAL SOIL	125	35	100	35	100
REFUSE	56	32	100	40	100
DURABLE ROCK	130	40	100		

NOTES:
 MATERIAL PROPERTIES FOR NATURAL SOIL AND DURABLE
 ROCK ARE FROM THE ORIGINAL PERMIT APPLICATION.
 REFUSE PROPERTIES ARE BASED ON 2008 TESTING.
 COHESION IS APPLIED ON RECOMMENDATION BY THE
 AUTHOR OF THE SLOPE STABILITY SOFTWARE USED TO
 ANALYZE THIS STRUCTURE.

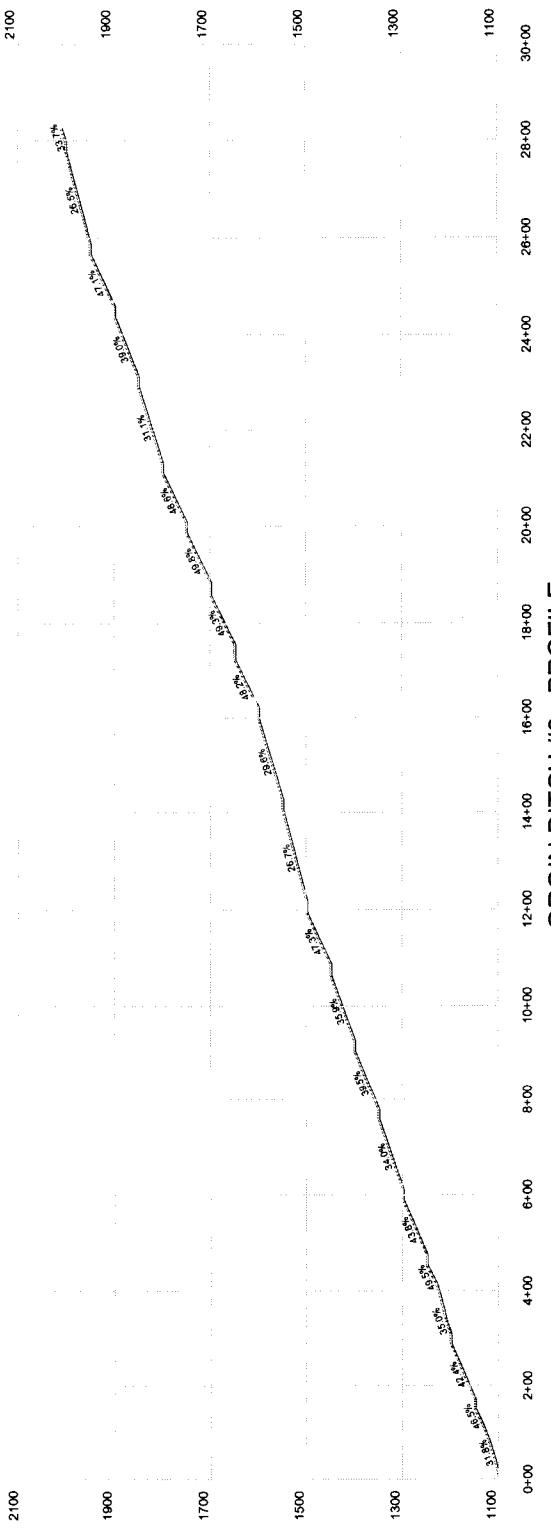
MAPLE COAL CO.
 720 Professional Park Drive
 Summersville, WV 26651

SCALE: 1" = 400'	EXHIBIT: 9 (B) OF 17	VALLEY FILL NO. 2 DESIGN (SYCAMORE BRANCH)
DATE: FEBRUARY 2007	G:\DWGS\27\27-150\SYCAMORE NORTH\404\EXHIBIT 8.DWG	
BY: AJK		

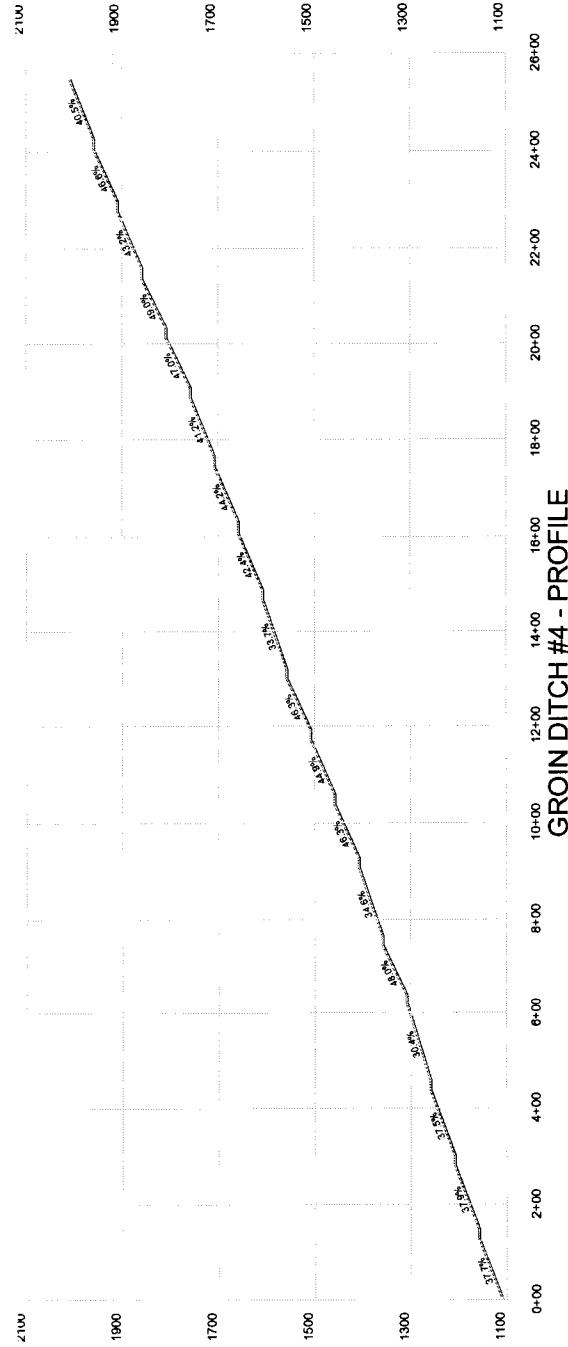


MAPLE COAL CO.
720 Professional Park Drive
Summersville, WV 26651

SCALE: 1" = 400'	EXHIBIT: 9 (C)	VALLEY FILL NO. 2 DESIGN (SYCAMORE BRANCH)
DATE: FEBRUARY 2007	OF 17	G:\Dwgs\27127-150\Sycamore North\404\Exhibit 9.dwg
BY: AJK		



GROIN DITCH #3 - PROFILE



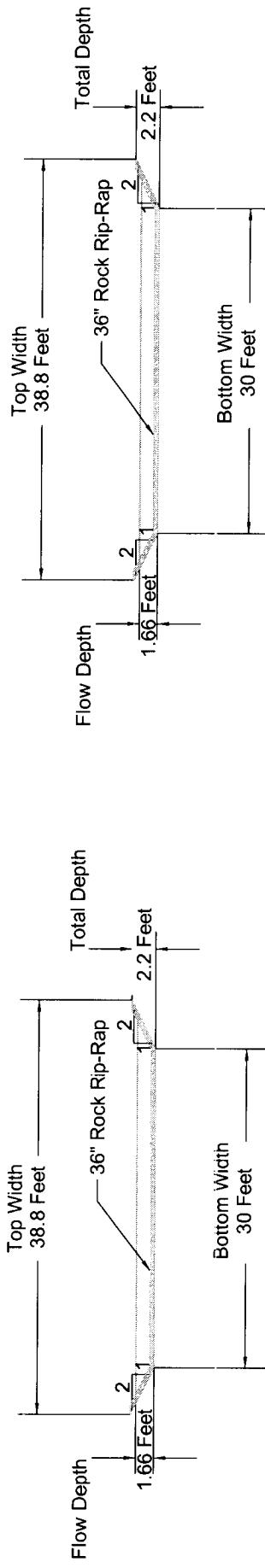
GROIN DITCH #4 - PROFILE

MAPLE COAL CO.
720 Professional Park Drive
Summersville, WV 26651

SCALE: 1" = 400'

EXHIBIT: 9 (D)
OF 17
VALLEY FILL NO. 2
DESIGN
(SYCAMORE BRANCH)

DATE: FEBRUARY 2007
BY: AJK
G:\Dwgs\27\27-150\Sycamore North\404\Exhibit 9.dwg

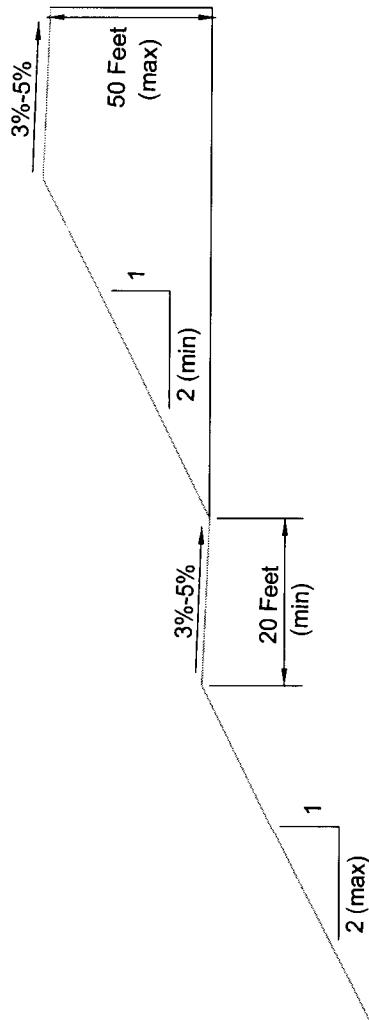


GROIN DITCH #3

N.T.S.

GROIN DITCH #3

N.T.S.



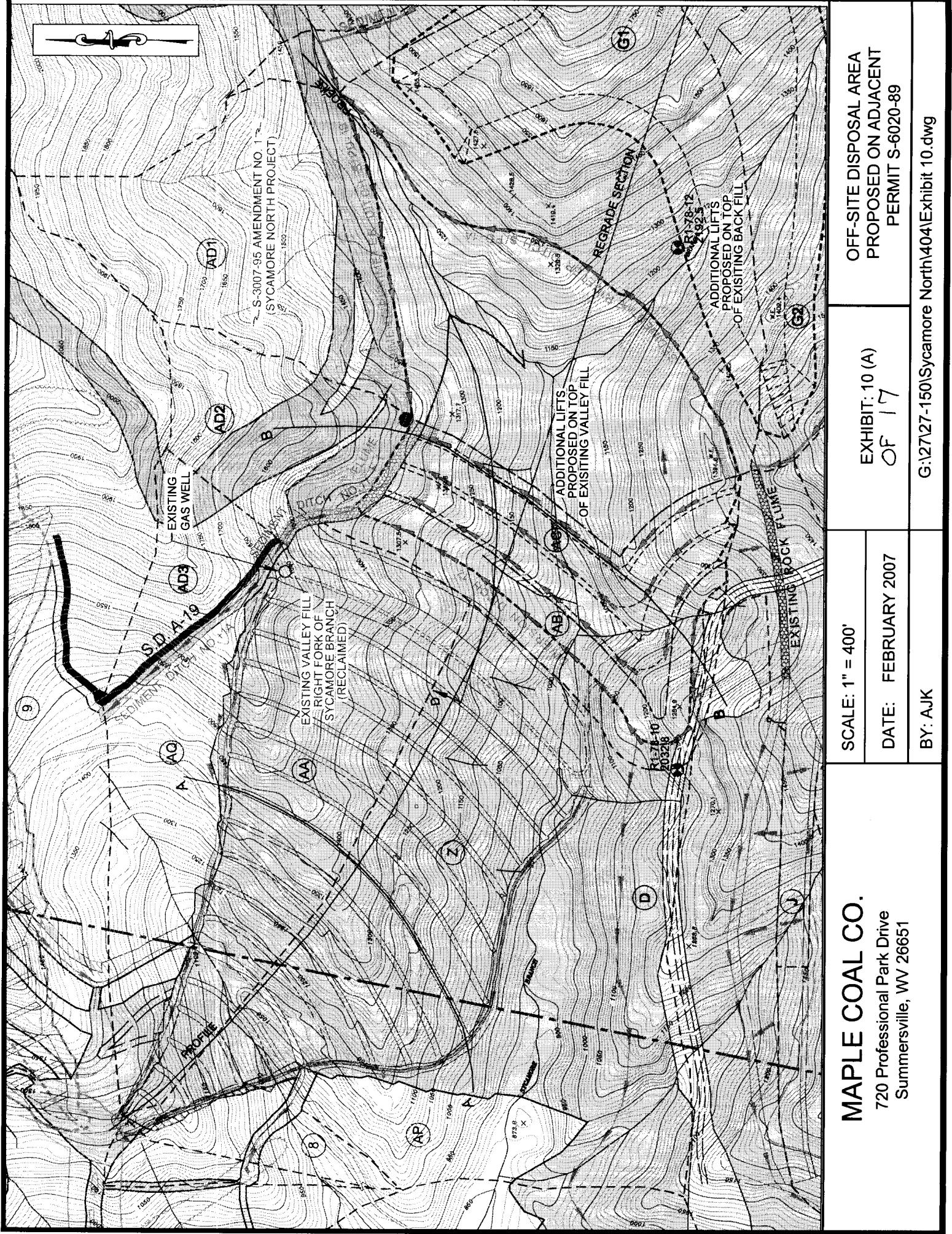
BENCH DETAIL

N.T.S.

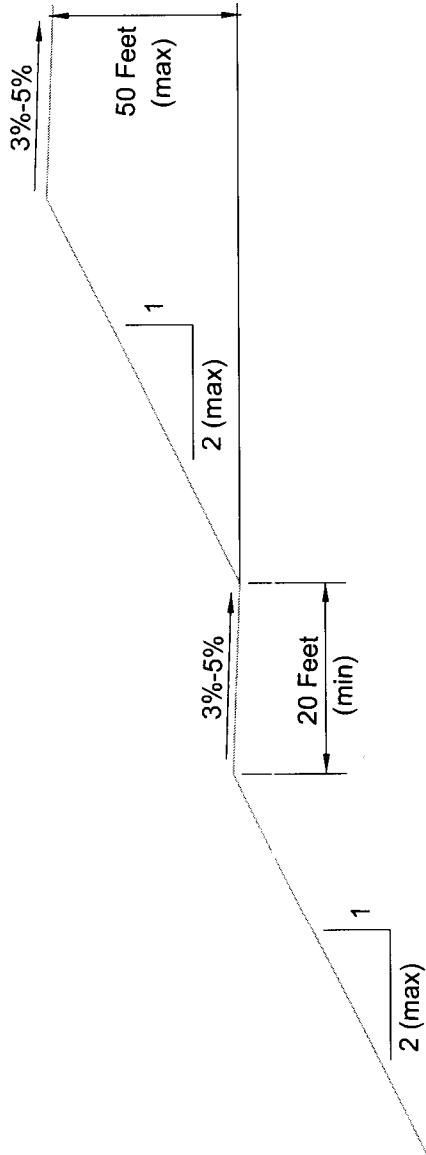
MAPLE COAL CO.
720 Professional Park Drive
Summersville, WV 26651

SCALE: NTS	EXHIBIT: 9 (E)	VALLEY FILL NO. 2
DATE: FEBRUARY 2007	OF 17	DESIGN
BY: AJK		(SYCAMORE BRANCH)

G:\Dwg\27127-150\Sycamore North\404\Exhibit 9.dwg

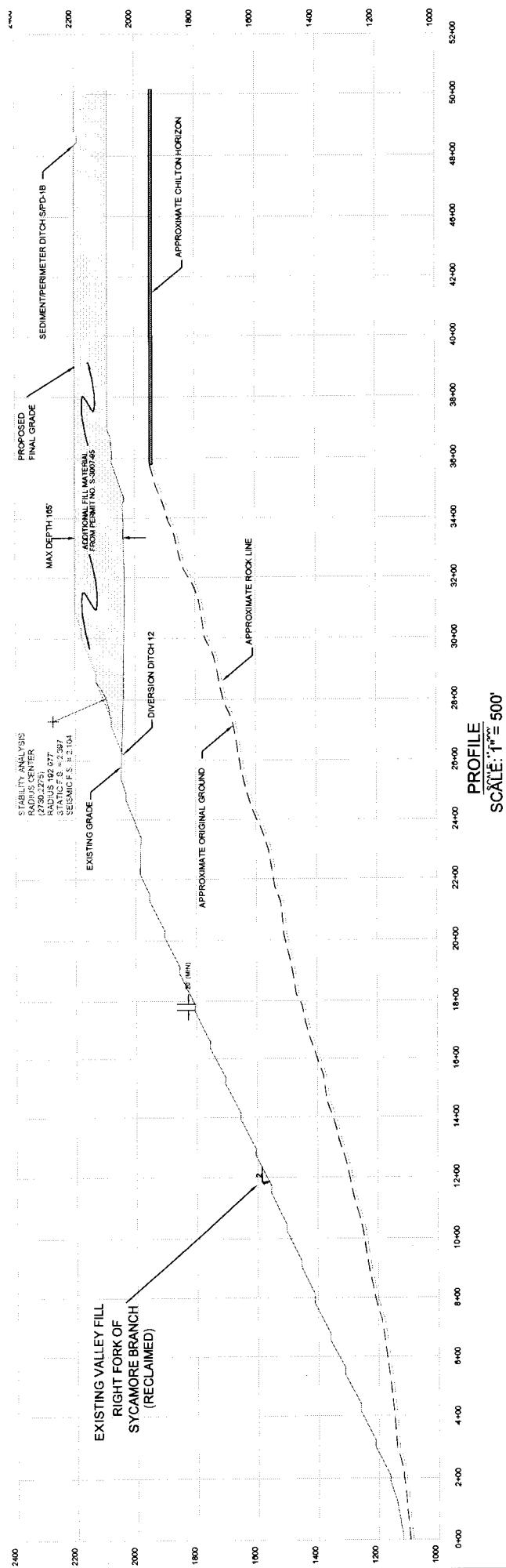


MAPLE COAL CO.
 720 Professional Park Drive
 Summersville, WV 26651



BENCH DETAIL

N.T.S.



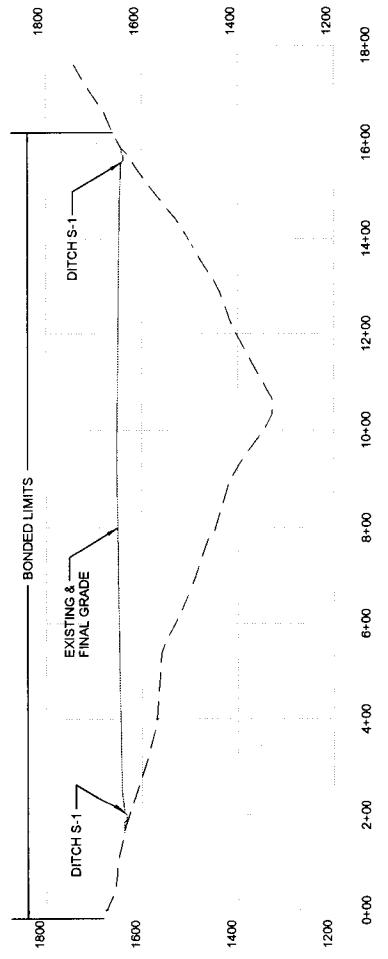
MAPLE COAL CO.
720 Professional Park Drive
Summersville, WV 26651

SCALE: AS SHOWN

EXHIBIT: 10 (B)
OF 17

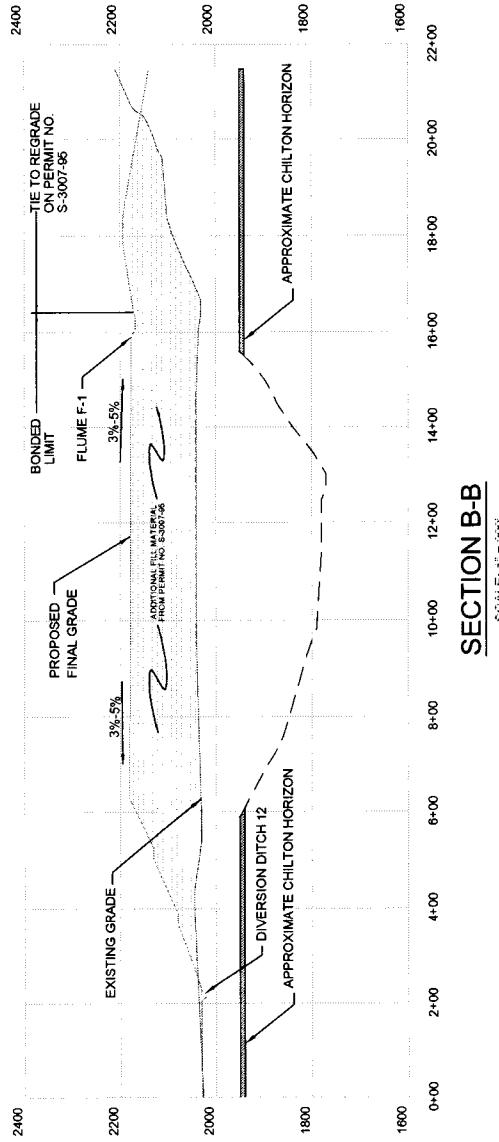
OFF-SITE DISPOSAL AREA
PROPOSED ON ADJACENT
PERMIT S-6020-89

G:\127\27-150\Sycamore North\404\Exhibit 10.dwg



SECTION A-A

**ADJACENT SYCAMORE NORTH PERMIT
(RECLAIMED)**



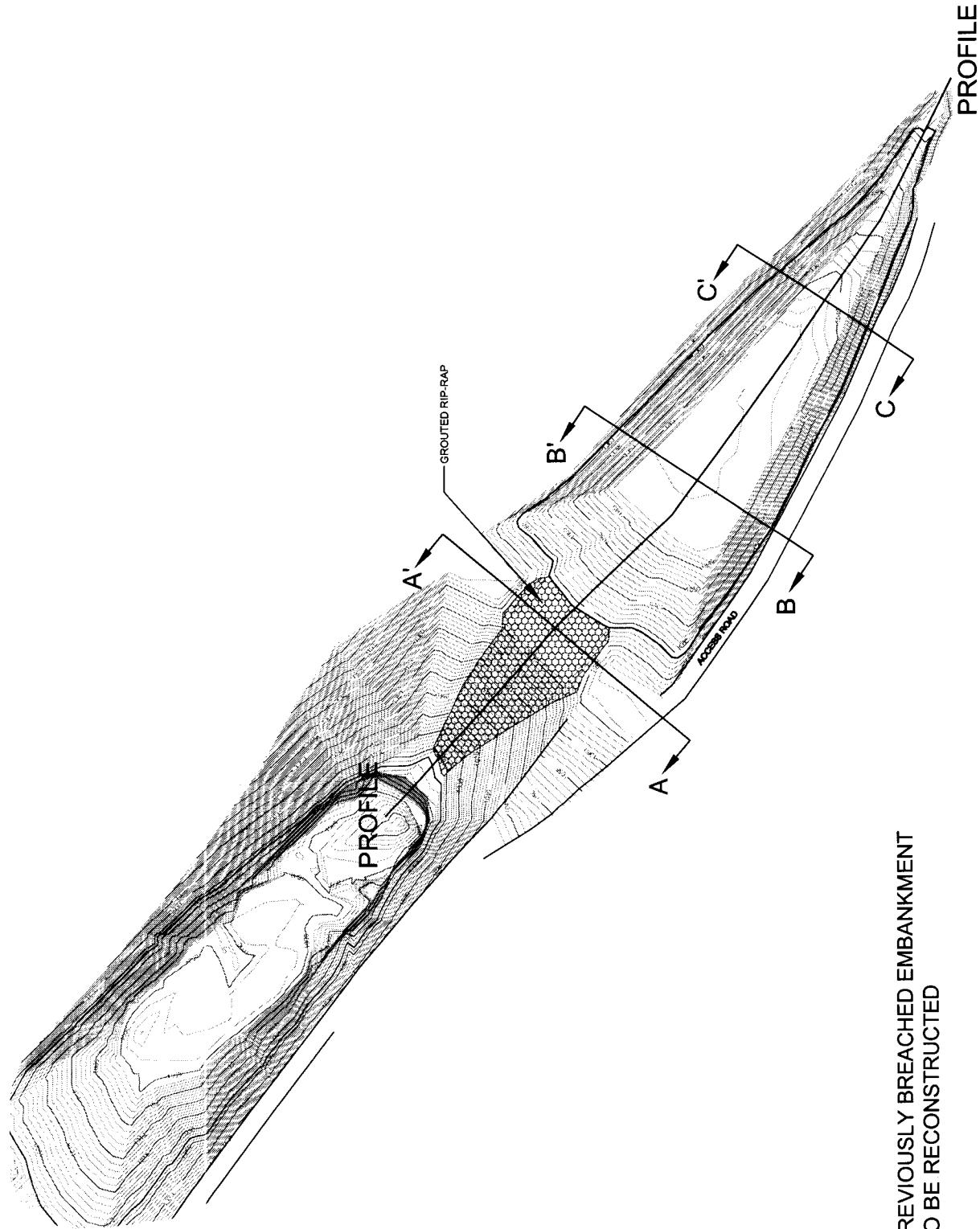
Scale F-1 = 1' = 20'

MAPLE COAL CO.
720 Professional Park Drive
Summersville, WV 26651

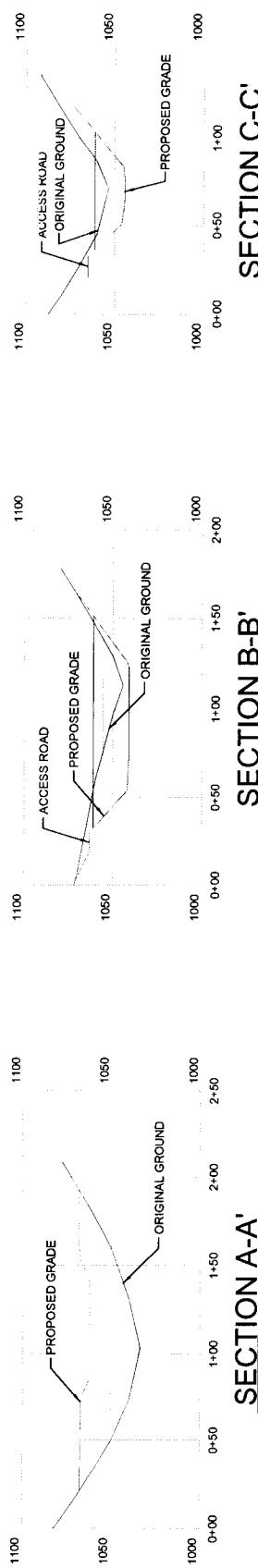
SCALE: 1" = 400'	EXHIBIT: 10 (C)
DATE: FEBRUARY 2007	OF 17
BY: AJK	G:\27\27-150\Sycamore North\404\Exhibit 10.dwg

OFF-SITE DISPOSAL AREA PROPOSED ON ADJACENT PERMIT S-6020-89
--

Maple Coal Co.

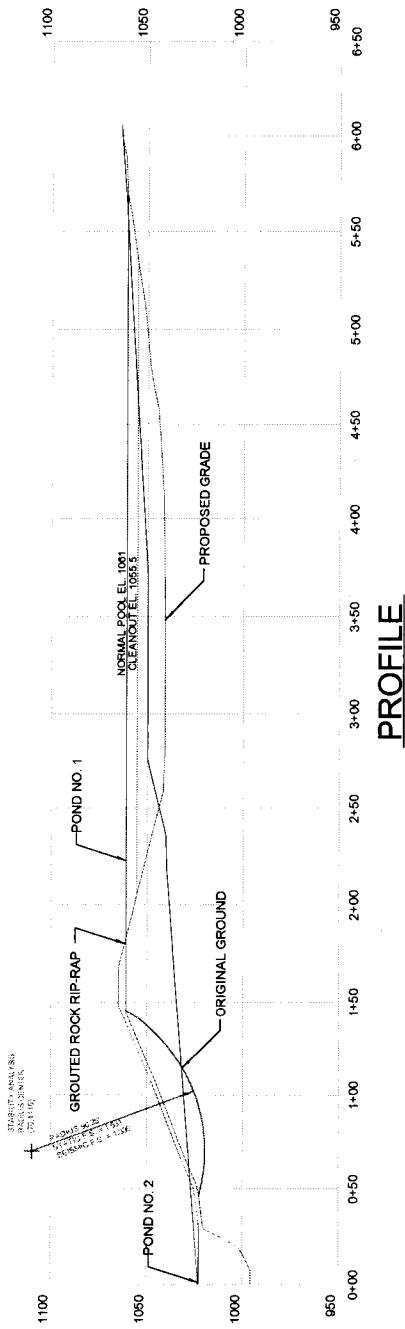


MAPLE COAL CO. 720 Professional Park Drive Summersville, WV 26651		SCALE: 1" = 400' DATE: FEBRUARY 2007 BY: AJK	EXHIBIT: 11 (A) OF 1	EXISTING POND NO. 1 DESIGN (TOMS BRANCH)
G:\Dwg\27\27-150\Sycamore North\404\Exhibit 11.dwg				



SECTION C-C'

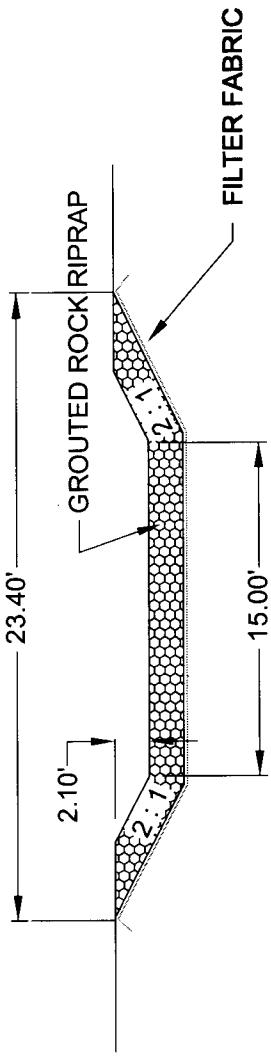
SECTION B-B'



NOTE: PROFILE STATIONING DOES NOT MATCH
STREAM DELINEATION STATIONING

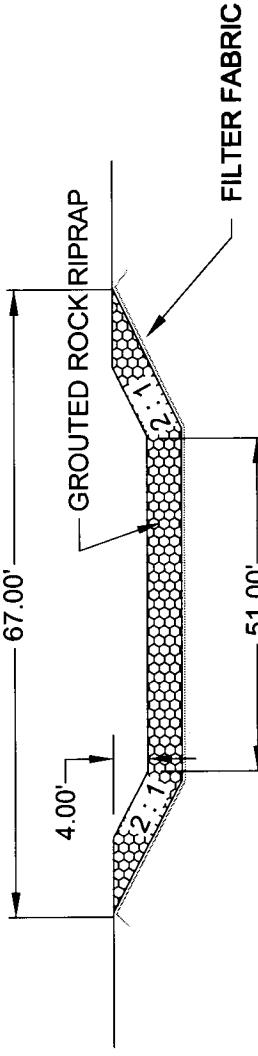
MAPLE COAL CO.
720 Professional Park Drive
Summersville, WV 26651

SCALE: 1" = 400'	EXHIBIT: 11 (B)	EXISTING POND NO. 1 DESIGN (TOMS BRANCH)
DATE: FEBRUARY 2007	OF 7	G:\Dwgs\27\27-150\Sycamore North\404\Exhibit 11.dwg
BY: AJK		



Not to Scale

TYPICAL SPILLWAY - SLOPE SECTION



Not to Scale

TYPICAL SPILLWAY - CONTROL SECTION

MAPLE COAL CO.
720 Professional Park Drive
Summersville, WV 26651

SCALE: NTS

EXHIBIT: 11 (C)

OF 17

EXISTING POND NO. 1

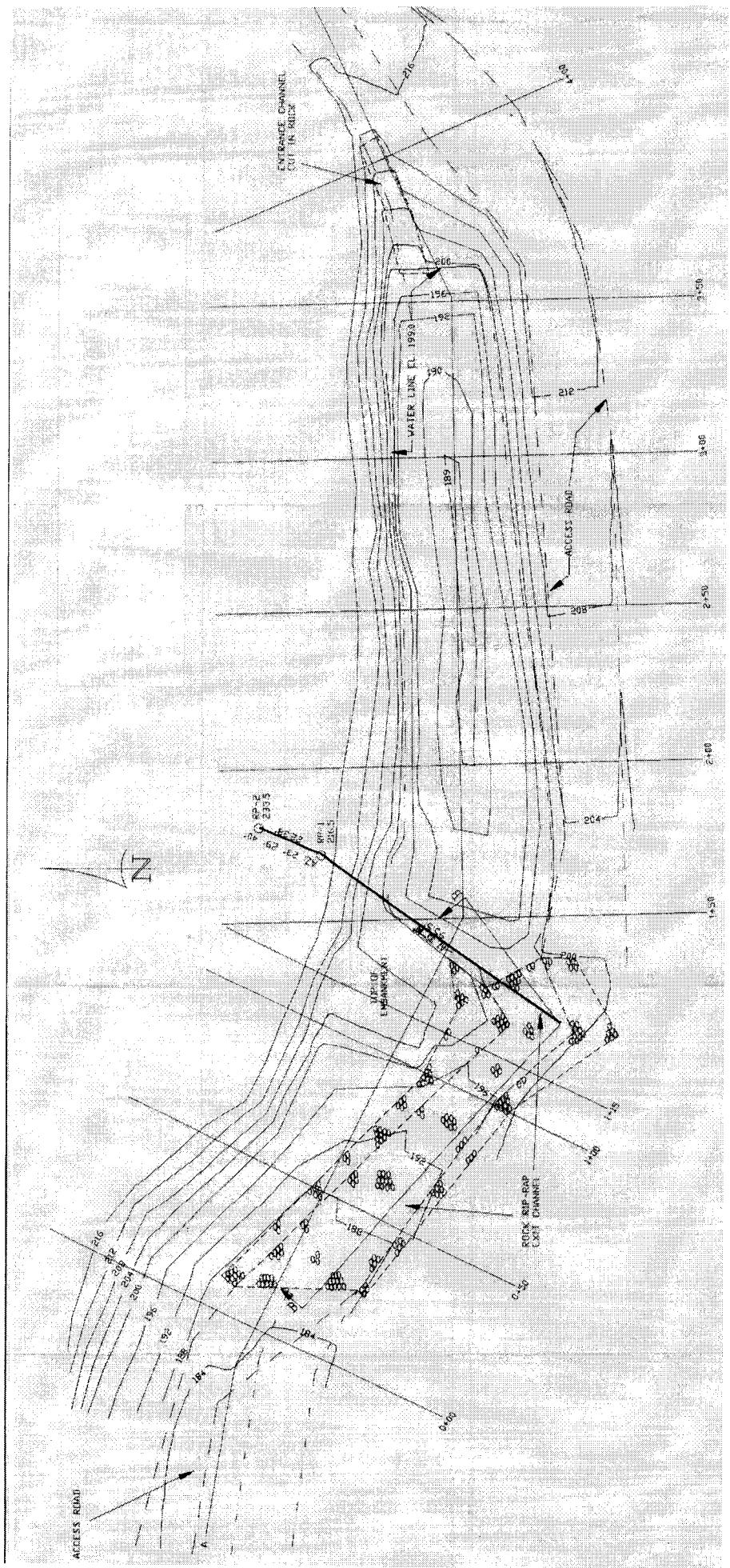
DESIGN

(TOMS BRANCH)

DATE: FEBRUARY 2007

BY: AJK

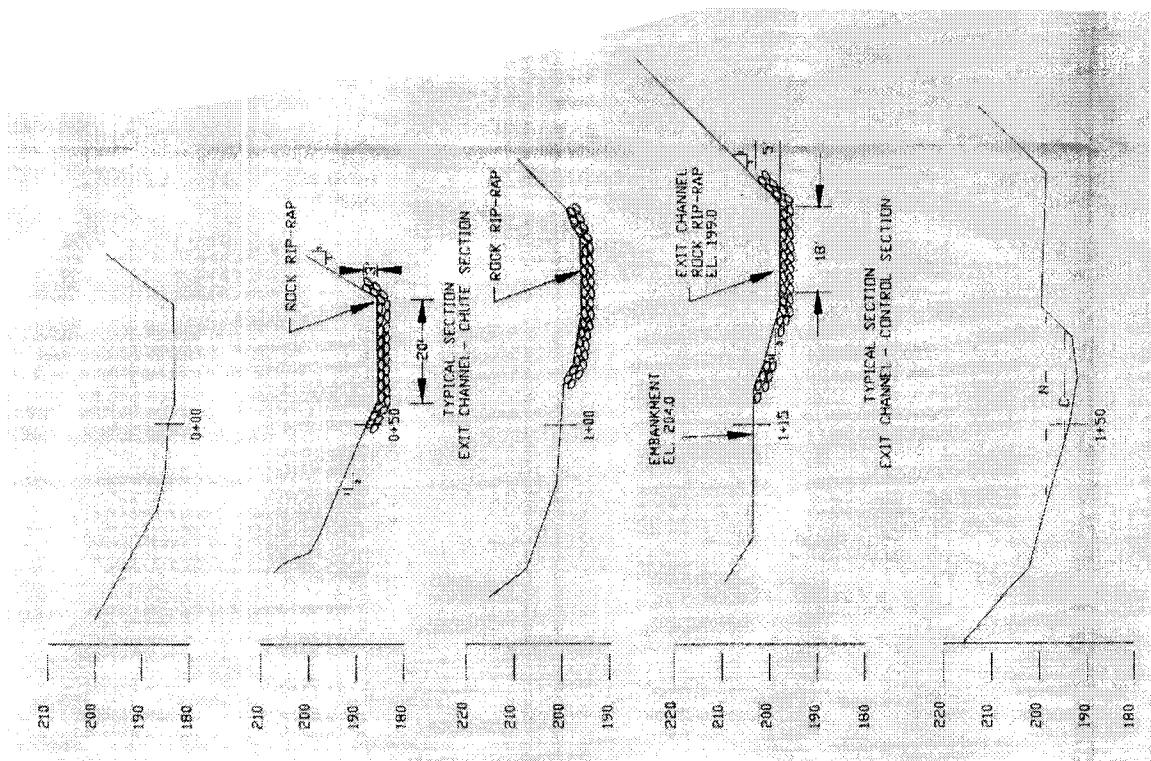
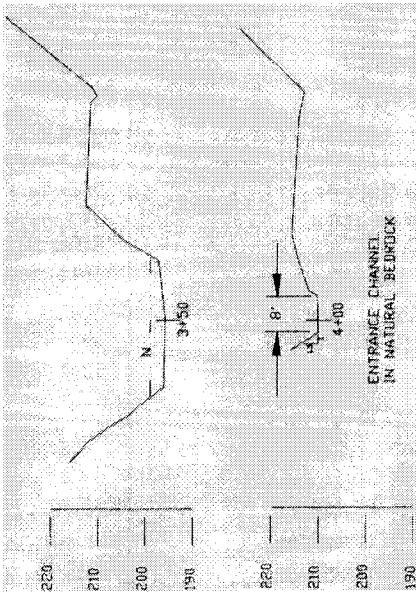
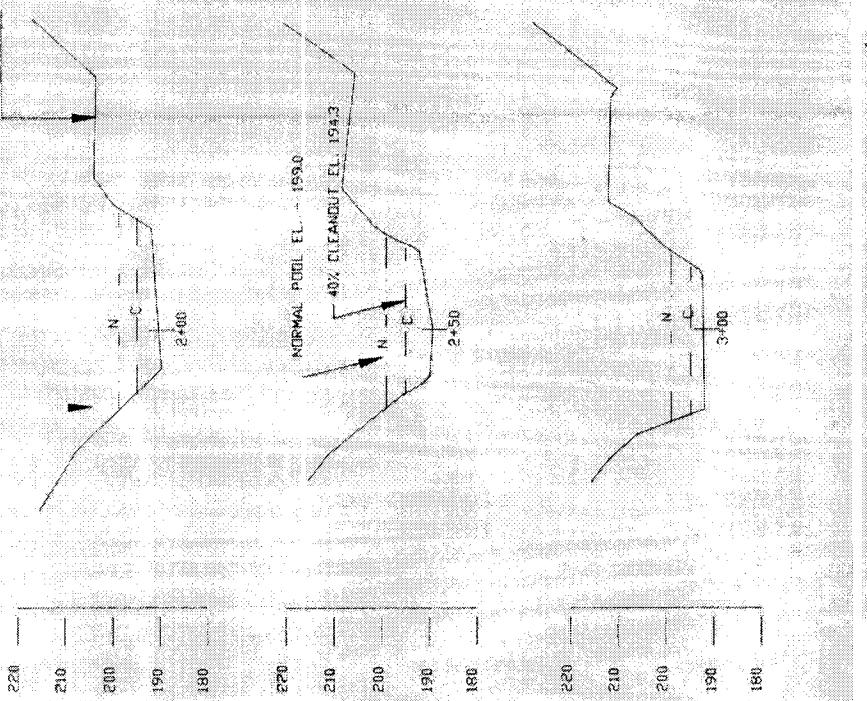
G:\Dwgs\127\27-150\Sycamore North\404\Exhibit 11.dwg



MAPLE COAL CO.
720 Professional Park Drive
Summersville, WV 26651

EXHIBIT NO. 5	EXHIBIT: 13 (A)	EXISTING POND NO.5 AS-BUILT (SYCAMORE BRANCH)
SCALE: 1" = 100' DATE: FEBRUARY 2007 BY: AJK	EXHIBIT OF 17	G:\Dwg\127127-150\Sycamore North\404\Exhibit 13.dwg

ACCESS ROAD



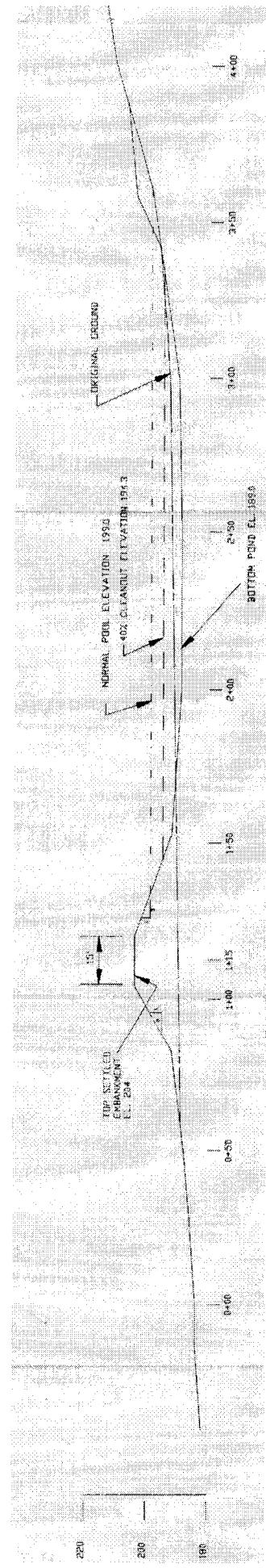
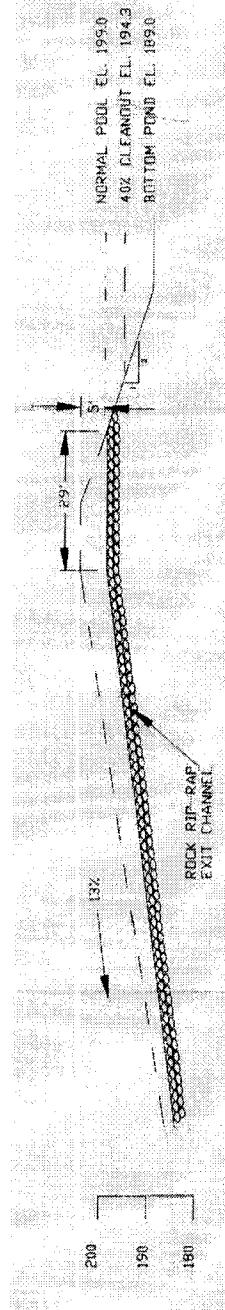
MAPLE COAL CO.
720 Professional Park Drive
Summersville, WV 26651

SCALE: 1" = 40'
DATE: FEBRUARY 2007
BY: AJK

**EXISTING POND NO.5
AS-BUILT
(SYCAMORE BRANCH)**

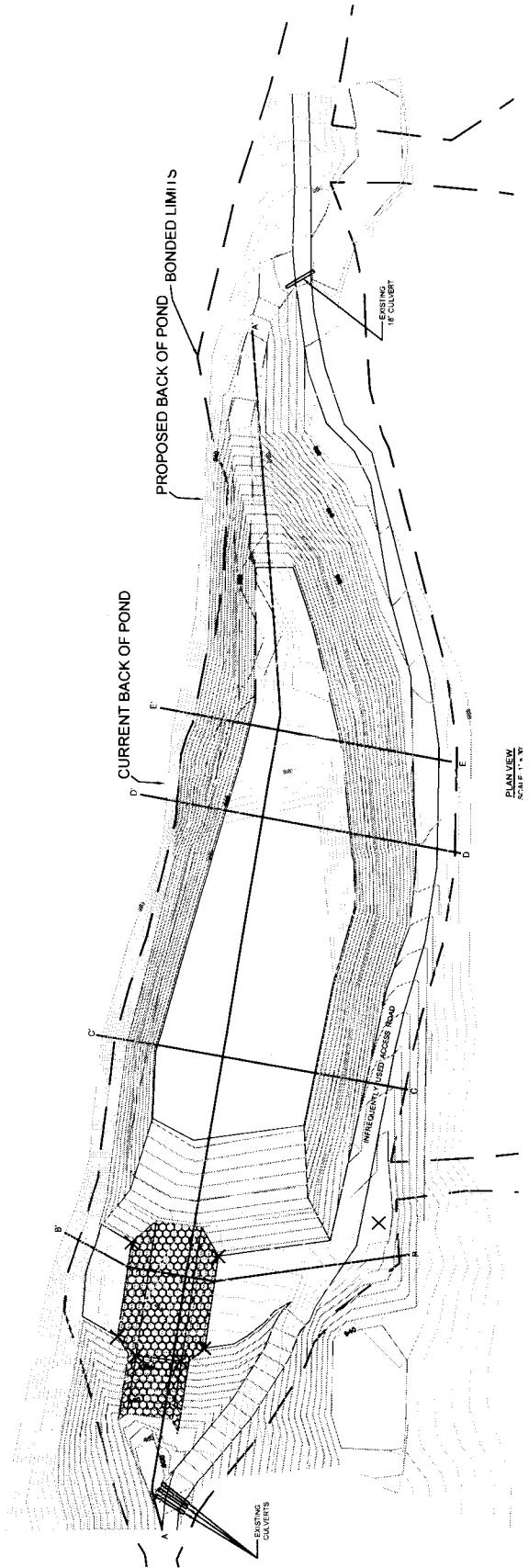
EXHIBIT: 13 (B)
OF 17

G:\Dwgs\27\27-150\Sycamore North\404\Exhibit 13.dwg



MAPLE COAL CO.
720 Professional Park Drive
Summersville, WV 26651

SCALE: 1" = 100'	EXHIBIT: 13 (C)	EXISTING POND NO.5 AS-BUILT (SYCAMORE BRANCH)
DATE: FEBRUARY 2007	OF 17	G:\Dwgs\27127-150\Sycamore North\404\Exhibit 13.dwg



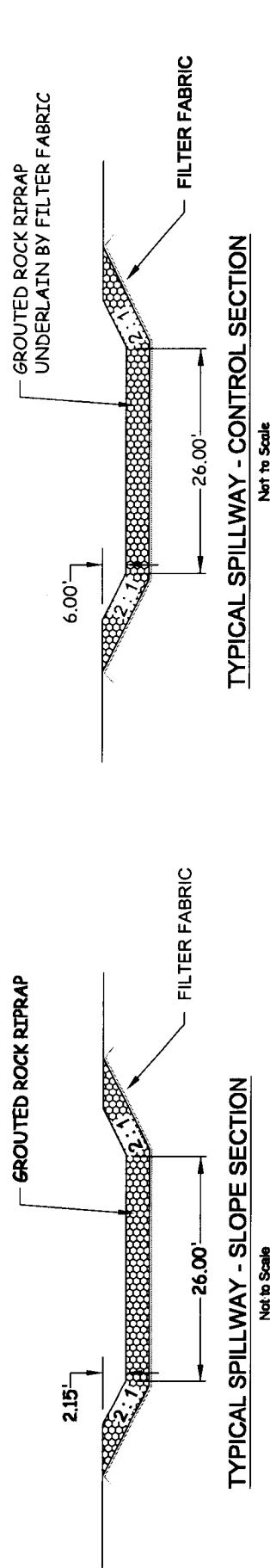
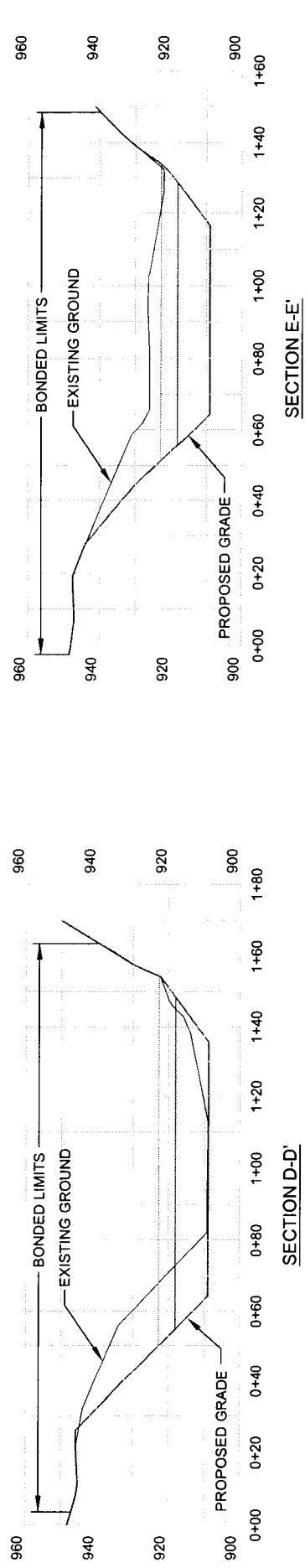
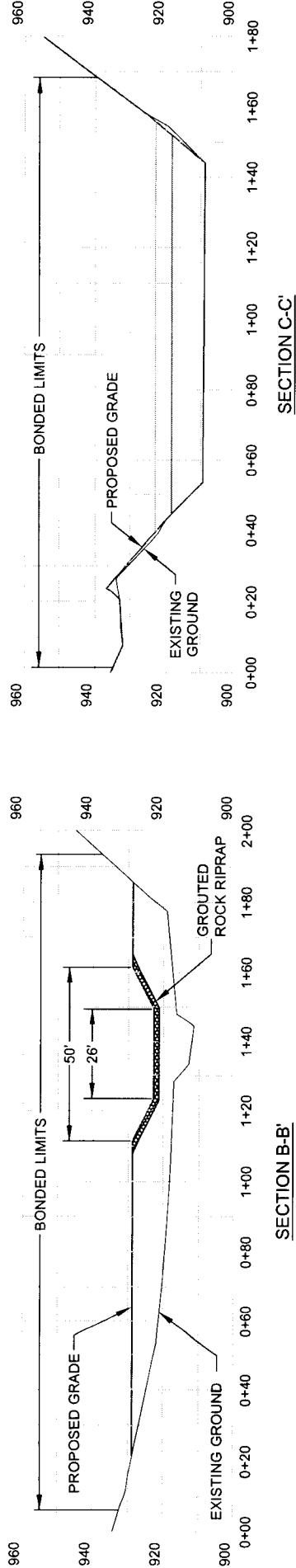
NOTE: BACK OF POND TO BE
EXCAVATED AND ENLARGED

EXISTING EMBANKMENT TO BE RAISED
NO CHANGE TO TOE LOCATION

MAPLE COAL CO.
720 Professional Park Drive
Summersville, WV 26651

SCALE: 1" = 100'	EXHIBIT: 14 (A)	EXPANSION OF EXISTING POND NO.7 (SYCAMORE BRANCH)
DATE: FEBRUARY 2007	OF 17	G:\DWGS\27\27-150\SYCAMORE NORTH\404\EXHIBIT 14.DWG

BY: AJK



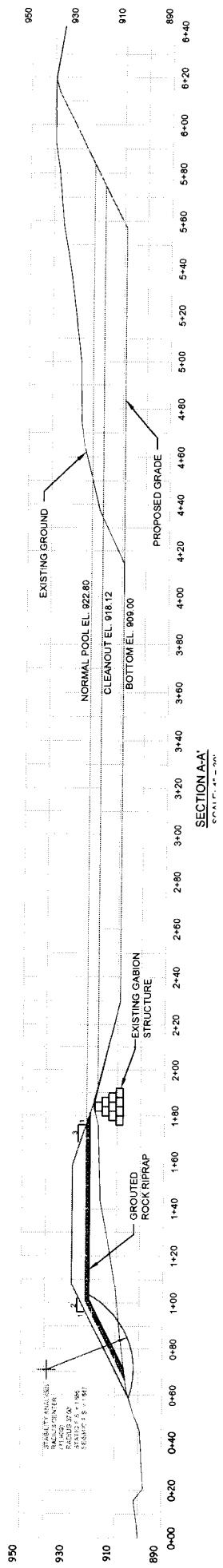
MAPLE COAL CO.
720 Professional Park Drive
Summersville, WV 26651

SCALE: NTS
EXHIBIT: 14 (B)
DATE: FEBRUARY 2007
BY: AJK

OF 17

**EXPANSION OF
EXISTING POND NO.7
(SYCAMORE BRANCH)**

G:\DWGS\27127-150\SYCAMORE NORTH\04\EXHIBIT 14.DWG



NOTE: BACK OF POND TO BE
EXCAVATED AND ENLARGED

EXISTING EMBANKMENT TO BE RAISED
NO CHANGE TO TOE LOCATION

MAPLE COAL CO.
720 Professional Park Drive
Summersville, WV 26651

SCALE: NTS	EXHIBIT: 14 (C)	EXPANSION OF
DATE: FEBRUARY 2007	OF 17	EXISTING POND NO.7
BY: AJK		(SYCAMORE BRANCH)

G:\DWGS\27\27-150\SYCAMORE NORTH\404\EXHIBIT 14.DWG

PHASE MAP 0

EXHIBIT: 15 (A)
OF 17

G:DWG\\$127\27-150\SYCAMORE NORTH\404\EXHIBIT 15.DWG

SCALE: AS SHOWN
DATE: FEBRUARY 2007
DRWN BY: AJK

MAPLE COAL CO.
720 Professional Park Drive
Summersville, WV 26651



LEGEND

UNDISTURBED
DISTURBED
RECLAIMED
PONDS

EXISTING PONDS &
CHECK DAMS
ON S-6020-86

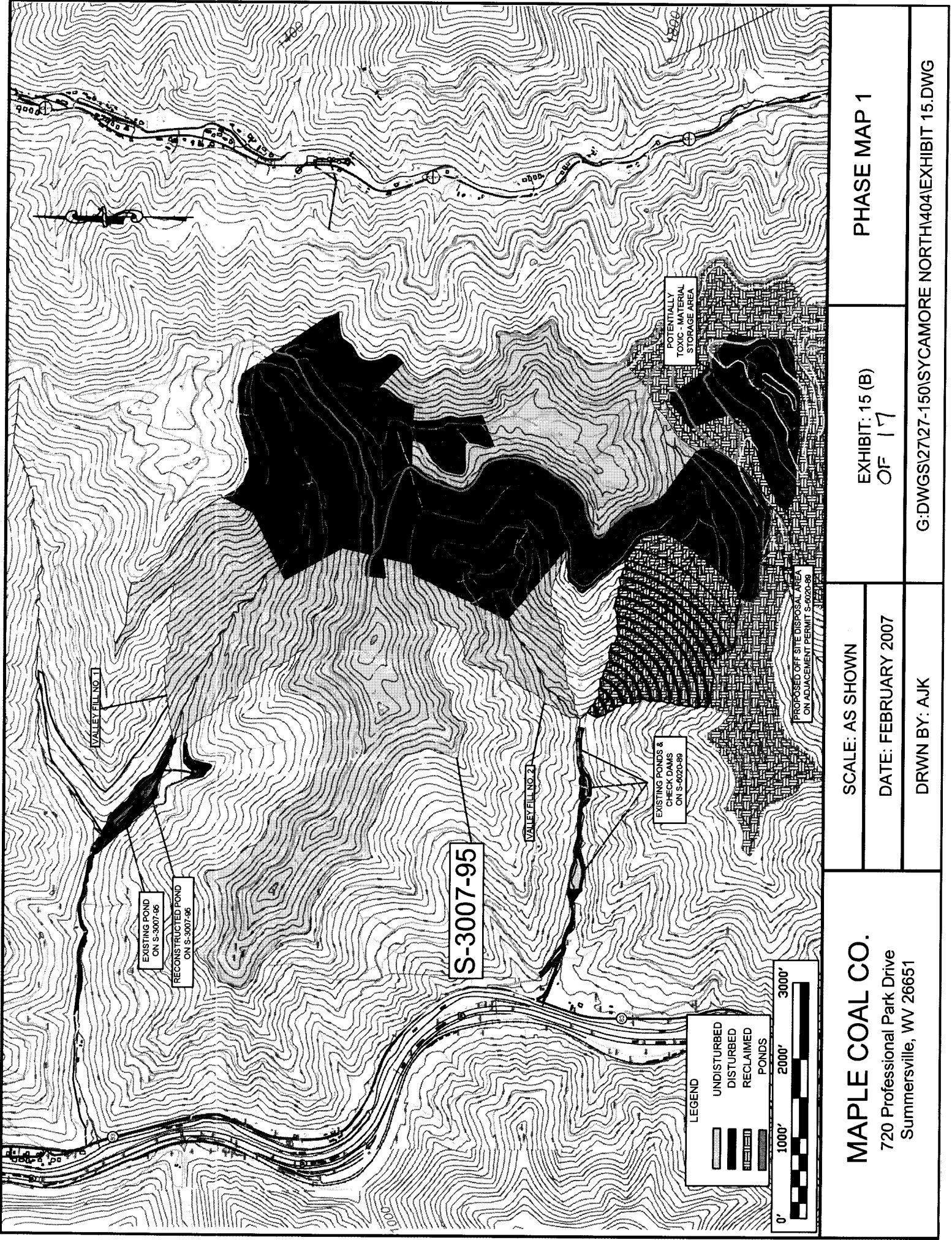
VALLEY FILL NO. 2

EXISTING POND
ON S-3007-86
RECONSTRUCTED POND
ON S-3007-05

VALLEY FILL NO. 1

S-3007-95

PROPOSED OFF SITE DISPOSAL AREA
ON ADJACENT PERMIT S-6020-86



PHASE MAP 2

EXHIBIT: 15 (C)
OF 17

G:DWG\\$I27\27-150\SYCAMORE NORTH\404\EXHIBIT 15.DWG

MAPLE COAL CO.

720 Professional Park Drive
Summersville, WV 26651

SCALE: AS SHOWN

DATE: FEBRUARY 2007

DRWN BY: AJK

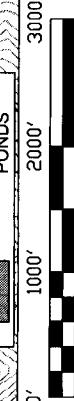
POTENTIALLY
TOXIC MATERIAL
STORAGE AREA

PROPOSED OFF SITE DISPOSAL AREA
ON ADJACENCE PERMIT S-6020-86

EXISTING PONDS &
CHECK DAMS
ON S-6020-86

LEGEND

UNDISTURBED
DISTURBED
RECLAIMED
PONDS

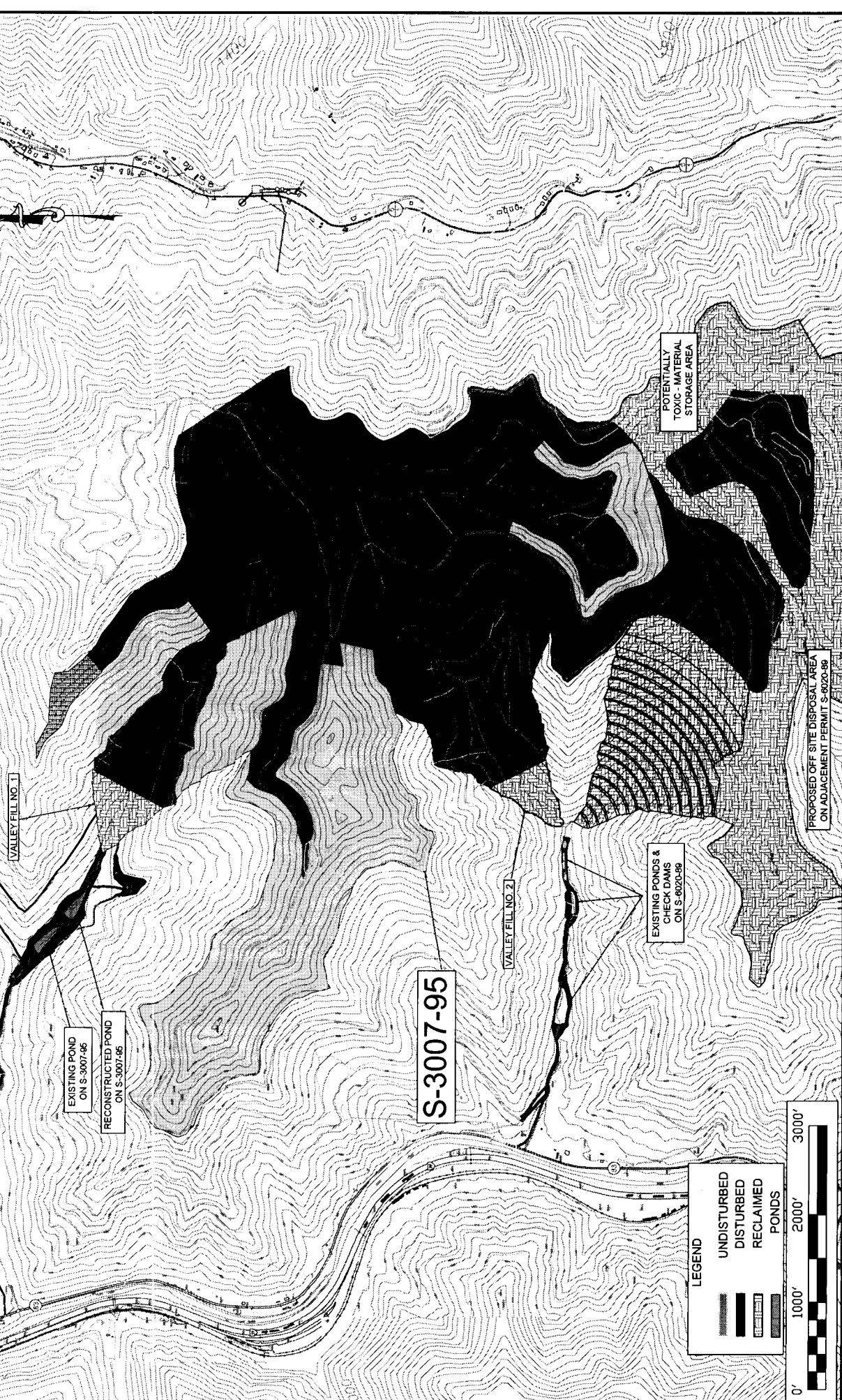


S-3007-95

VALLEY FILL NO. 1

EXISTING POND
ON S-3007-95
RECONSTRUCTED POND
ON S-3007-95

VALLEY FILL NO. 2



PHASE MAP 3

EXHIBIT: 15 (D)
OF 17

G:\DWGS\27\27-150\SYCAMORE NORTH\404\EXHIBIT 15.DWG

MAPLE COAL CO.
720 Professional Park Drive
Summersville, WV 26651

SCALE: AS SHOWN

DATE: FEBRUARY 2007

DRWN BY: AJK



LEGEND

UNDISTURBED
DISTURBED
RECLAIMED
PONDS

POTENTIALLY
TOXIC - MATERIAL
STORAGE AREA

EXISTING PONDS
ON S-3007-95
RECONSTRUCTED POND
ON S-3007-95

PROPOSED OFF SITE DISPOSAL AREA
ON ADJACENTMENT OPERA S-3020-90

VALLEY FILL NO. 2

S-3007-95

VALLEY FILL NO. 1

EXISTING POND
ON S-3007-95
RECONSTRUCTED POND
ON S-3007-95

PHASE MAP 4

EXHIBIT: 15 (E)
OF 17

G:\DWGS\2727-150\SYCAMORE NORTH\404\EXHIBIT 15.DWG

SCALE: AS SHOWN
DATE: FEBRUARY 2007
DRWN BY: AJK

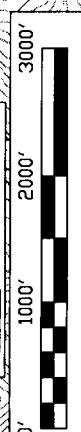
MAPLE COAL CO.
720 Professional Park Drive
Summersville, WV 26651

POTENTIALLY
TOXIC-MATERIAL
STORAGE AREA

EXISTING PONDS &
CHECK DAMS
ON S-8020-88

LEGEND

UNDISTURBED
DISTURBED
RECLAIMED
PONDS



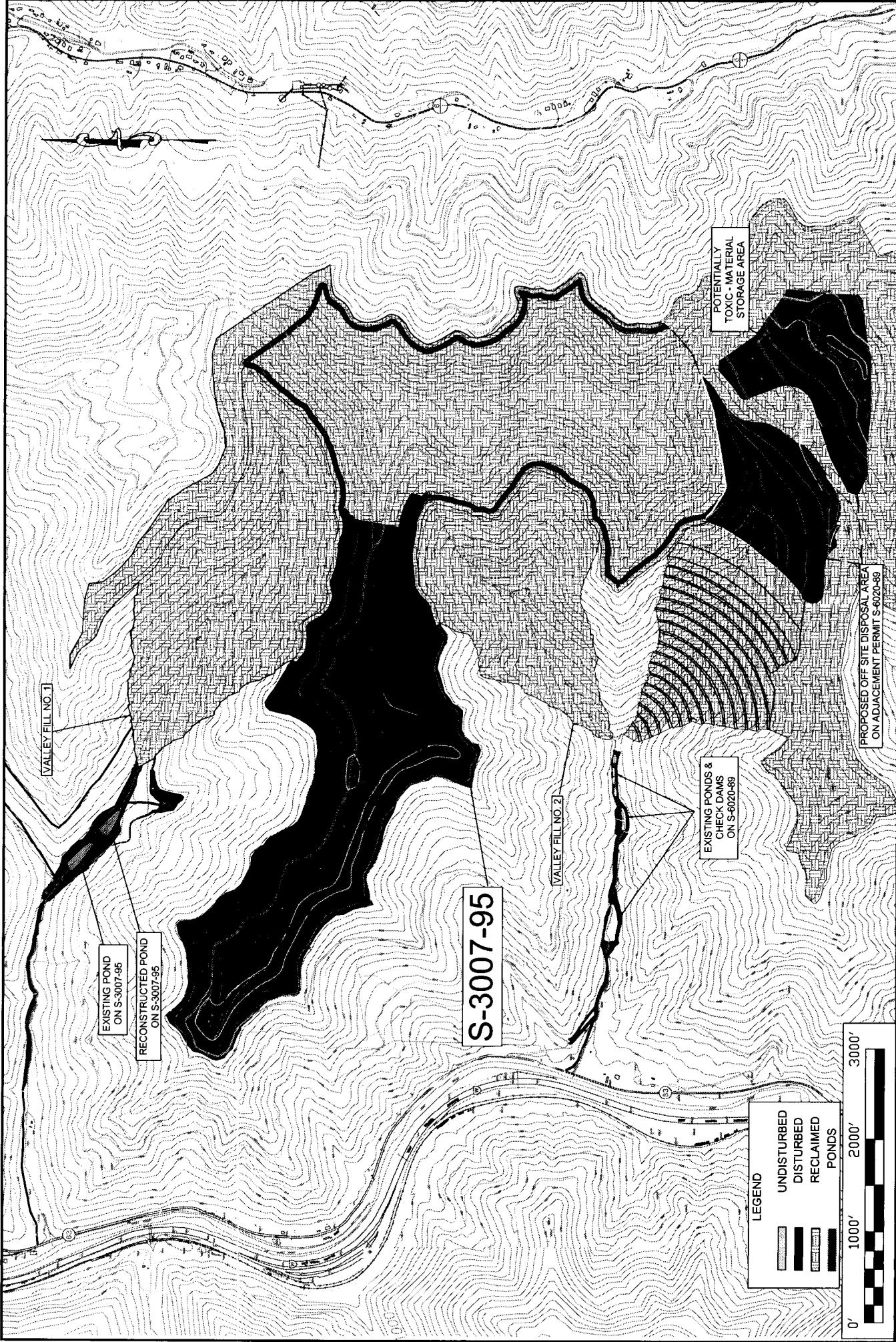
VALLEY FILL NO. 1

EXISTING POND
ON S-3007-96
RECONSTRUCTED POND
ON S-3007-96

S-3007-95

VALLEY FILL NO. 2

PROPOSED OFF-SITE DISPOSAL AREA
ON ADJACENT PERMIT S-8020-88



PHASE MAP 5

EXHIBIT: 15 (F)
OF 17

G:\DWGS\27\27-150\SYCAMORE NORTH\404\EXHIBIT 15.DWG

DATE: FEBRUARY 2007

DRWN BY: AJK

PHASE MAP 6

EXHIBIT: 15 (G)
OF = 17

G:\DWGS\2727-150\SYCAMORE NORTH\404\EXHIBIT 15.DWG

MAPLE COAL CO.
720 Professional Park Drive
Summersville, WV 26651

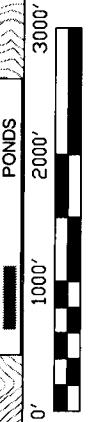
SCALE: AS SHOWN

DATE: FEBRUARY 2007

DRWN BY: AJK

PROPOSED OFF SITE DISPOSAL AREA
ON ADJACENT PERMIT S-6020-89

LEGEND
UNDISTURBED
DISTURBED
RECLAIMED
PONDS



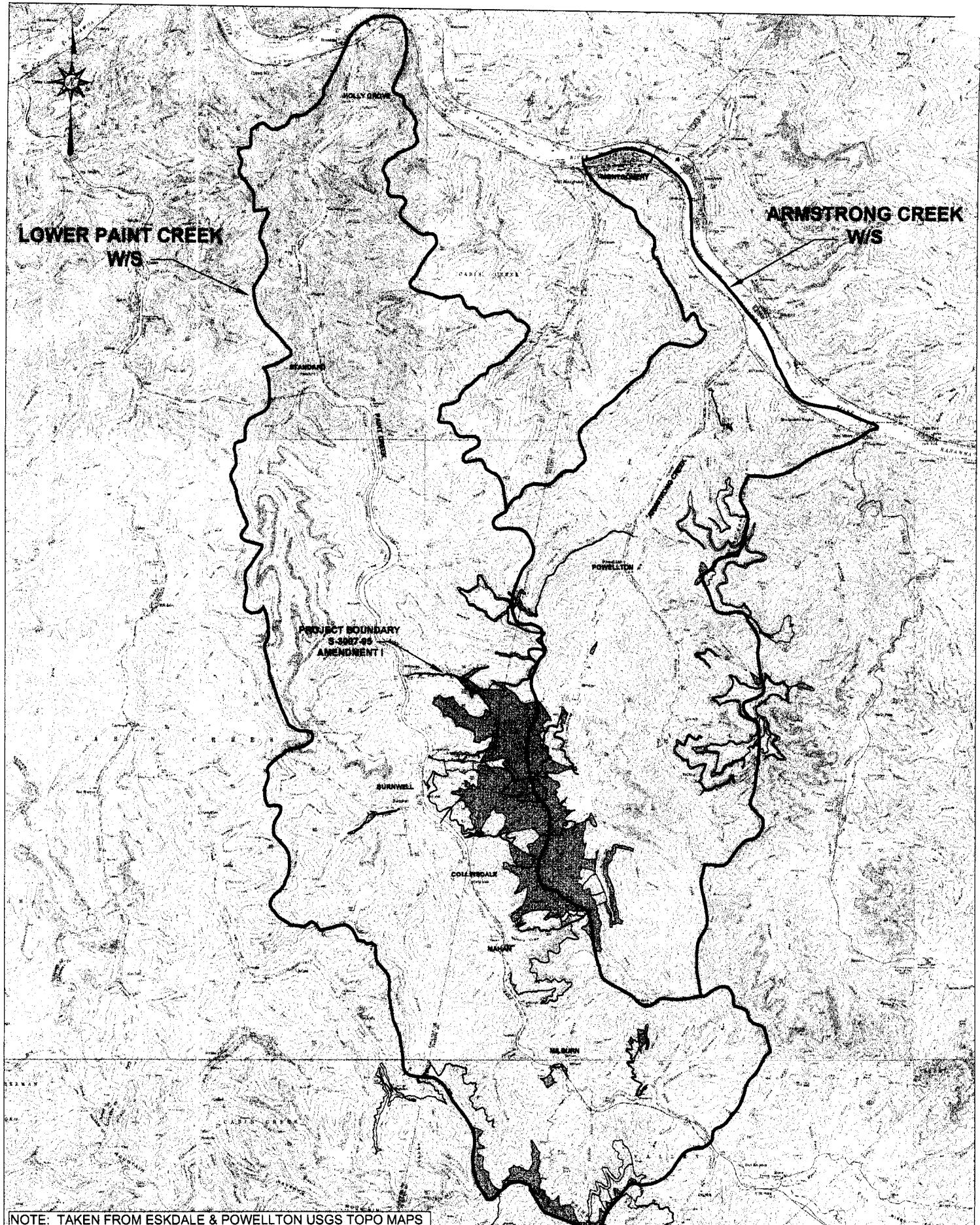
S-3007-95

VALLEY FILL NO. 1

EXISTING POND
ON S-3007-95
RECONSTRUCTED POND
ON S-3007-95

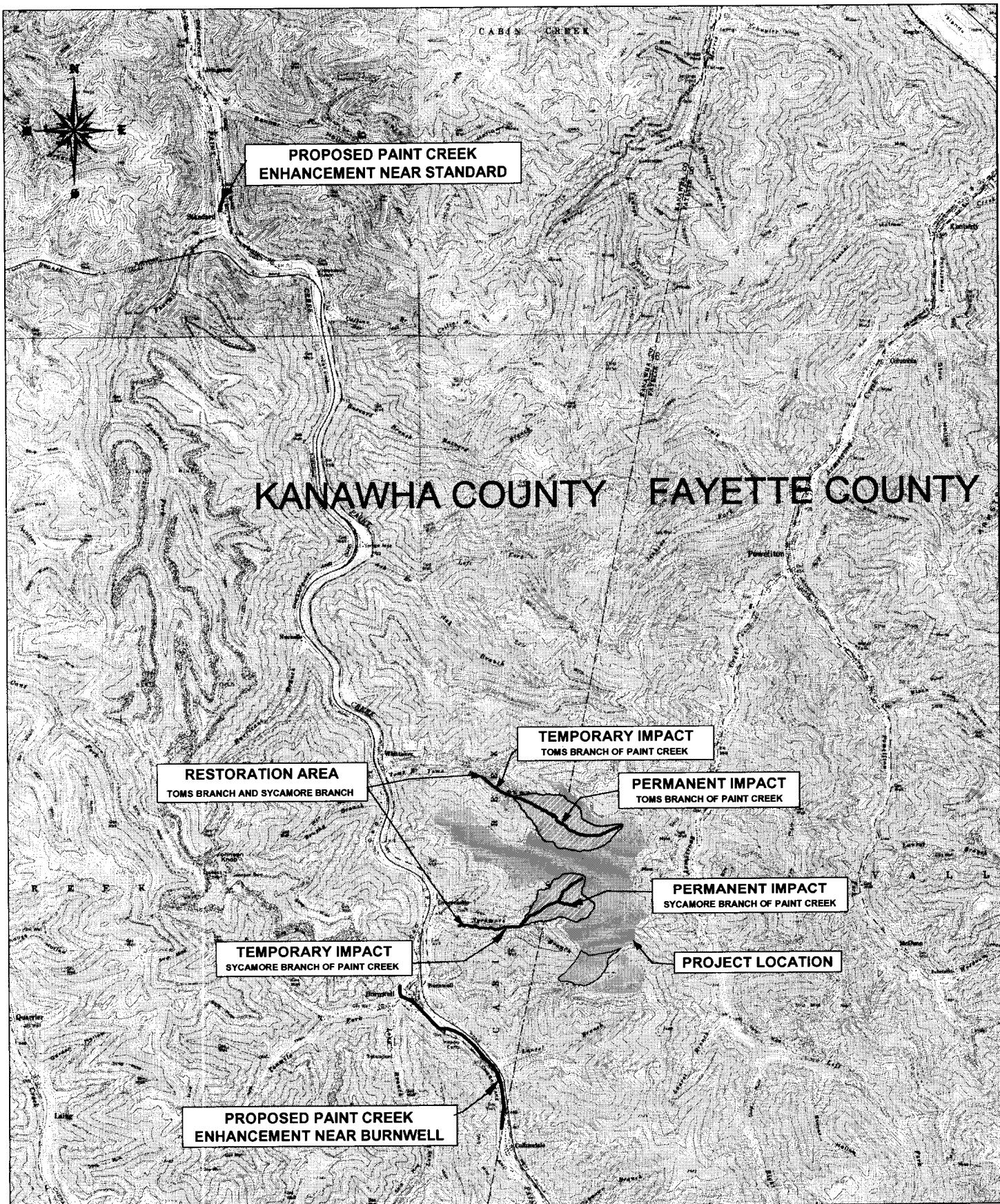
VALLEY FILL NO. 2

EXISTING PONDS &
CHECK DAMS
ON S-6020-89



NOTE: TAKEN FROM ESKDALE & POWELLTON USGS TOPO MAPS

	PRE LAW & SMCRA PERMITS	SCALE: 1" = 9,200'	EXHIBIT: 16 OF 17	CUMULATIVE IMPACT ASSESSMENT MAP
	RESIDENTIAL AREAS / HIGHWAYS	DATE: 2-17-07		SYCAMORE NORTH SURFACE MINE
	PROJECT BOUNDARY	BY: AJK		(LOWER PAINT CREEK & ARMSTRONG CREEK WATERSHEDS)
	FOREST			G:\DWGS17-150\SYCAMORE NORTH\404\ CIA MAP



MAPLE COAL CO. 720 Professional Park Drive Summersville, WV 26651	SCALE: 1" = 1 Mile	EXHIBIT: 17 OF 17	LOCATION OF PROPOSED MITIGATION SITES VERSUS IMPACT AREAS
	DATE: FEBRUARY 2007		
BY: DEI-JAW	G:\DWG\27\27-150\SYCAMORE NORTH\404\EXHIBITS 17.DWG		