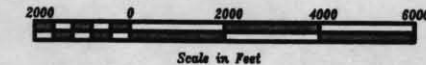
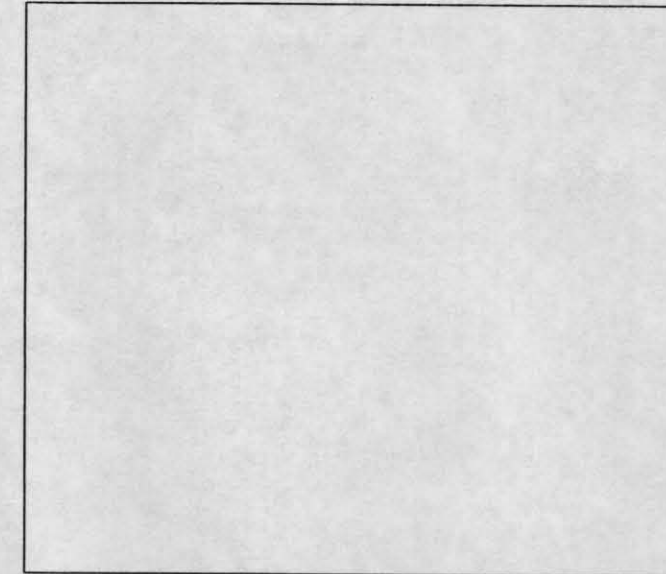


**LITTLE TOBY CREEK WATERSHED
AMD SITE LT-36
HORTON AND FOX TOWNSHIPS
ELK COUNTY, PA**

**Sponsored By
ELK COUNTY
ELK COUNTY CONSERVATION DISTRICT
HEADWATERS RESOURCE CONSERVATION &
DEVELOPEMENT COUNCIL**

**Prepared By
UNITED STATES DEPARTMENT OF AGRICULTURE
NATURAL RESOURCES CONSERVATION SERVICE
2000**



INDEX

1. COVER SHEET
2. SITE CONTOURS
3. FINAL PLANVIEW
4. CROSS SECTIONS A-A & B-B
5. CROSS SECTIONS C-C, D-D & E-E
6. WW#1 & 2 PROFILES & TYPICALS
7. WW#3 PROFILE & TYPICAL SECTIONS
8. PIPING SYSTEM LAYOUT
9. DETAILS

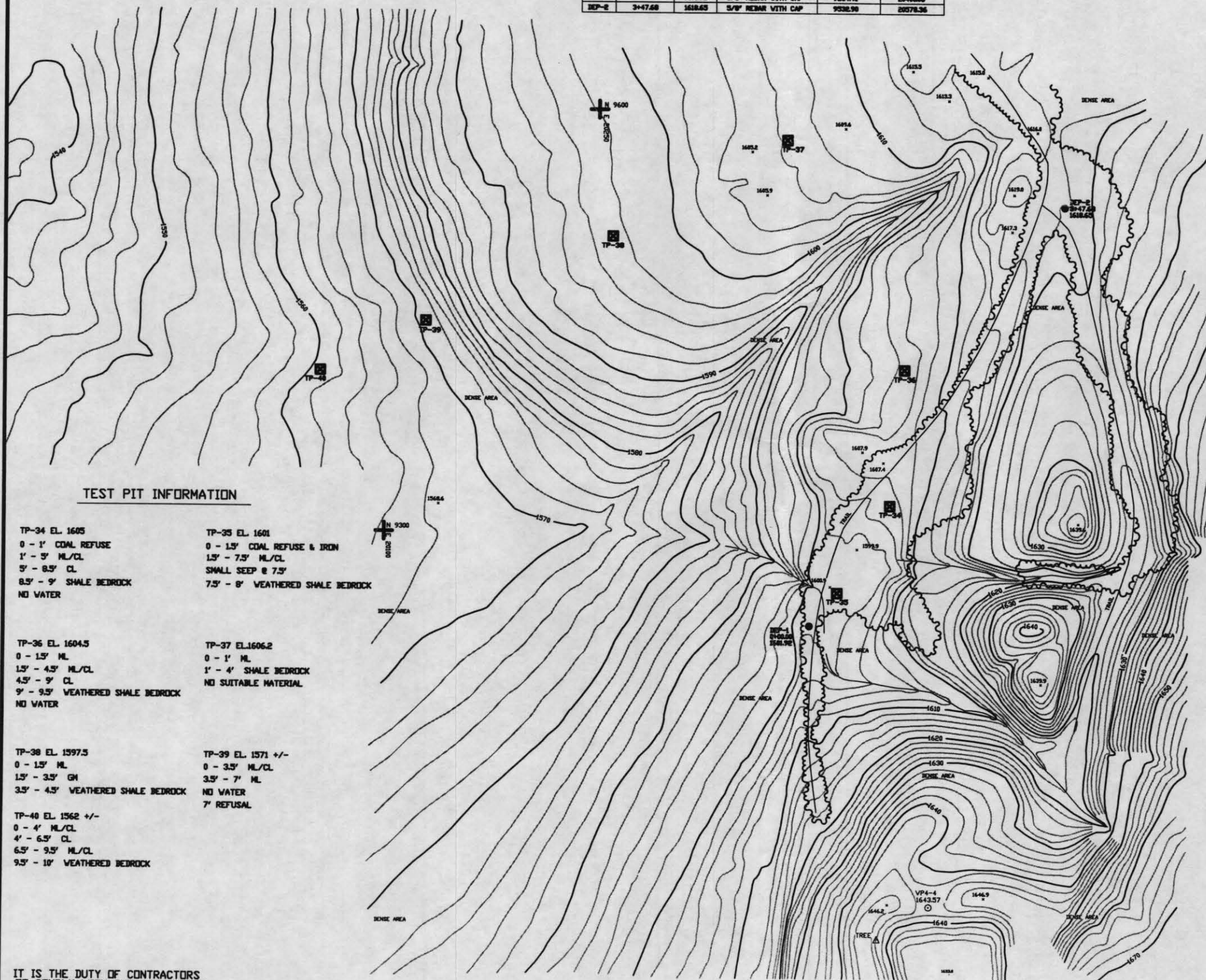
**LITTLE TOBY CREEK WATERSHED
AMD SITE LT-36
ELK COUNTY, PENNSYLVANIA
COVER SHEET**

Drawing No.
COVER SHEET.DWG
Sheet
No. **1** of **9**



Designed by **E. STECKLER** Date **5-25-00**
Drawn by **E. STECKLER** Date **5-25-00**
CAB _____
Checked _____

BENCH MARK DATA				
BH NO.	BENCHMARK STA.	ELEVATION	DESCRIPTION	E. COORDINATE
DEP-1	8+06.00	1601.92	5/8" REBAR WITH CAP	9234.41
DEP-2	3+47.68	1618.65	5/8" REBAR WITH CAP	9232.90



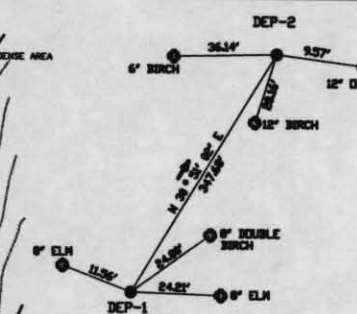
TEST PIT INFORMATION

TP-34 EL. 1605 0 - 1' COAL REFUSE 1' - 5' ML/CL 5' - 8.5' CL 8.5' - 9' SHALE BEDROCK NO WATER	TP-35 EL. 1601 0 - 1.5' COAL REFUSE & IRON 1.5' - 7.5' ML/CL SMALL SEEP @ 7.5' 7.5' - 8' WEATHERED SHALE BEDROCK
TP-36 EL. 1604.5 0 - 1.5' ML 1.5' - 4.5' ML/CL 4.5' - 9' CL 9' - 9.5' WEATHERED SHALE BEDROCK NO WATER	TP-37 EL. 1606.2 0 - 1' ML 1' - 4' SHALE BEDROCK NO SUITABLE MATERIAL
TP-38 EL. 1597.5 0 - 1.5' ML 1.5' - 3.5' GH 3.5' - 4.5' WEATHERED SHALE BEDROCK	TP-39 EL. 1571 +/- 0 - 3.5' ML/CL 3.5' - 7' ML NO WATER 7' REFUSAL
TP-40 EL. 1562 +/- 0 - 4' ML/CL 4' - 6.5' CL 6.5' - 9.5' ML/CL 9.5' - 10' WEATHERED BEDROCK	

IT IS THE DUTY OF CONTRACTORS TO COMPLY WITH THE PROVISIONS OF PENNSYLVANIA ACT 187 (1996) BEFORE PERFORMING ANY EXCAVATION WORK.

PA ONE CALL SERIAL NO. 0101254 DATE: 01/10/00

SURVEY BASELINE DATA



LEGEND

- BENCHMARKS
- TESTPITS

TOPOGRAPHY BY:
GWIN ENGINEERS, INC.
AN EADS GROUP COMPANY
ALTOONA, PA 16602

USING AERIAL PHOTOGRAPHY
DATED 11-23-96.

COORDINATES ARE ON A RANDOM
DATA BASE, RELATIVE TO THIS
SITE ONLY.

ALL ELEVATIONS SHOWN ARE BASED
ON U.S.G.S. DATUM

RELATIVE ERROR OF CLOSURE FOR
TRAVERSE.

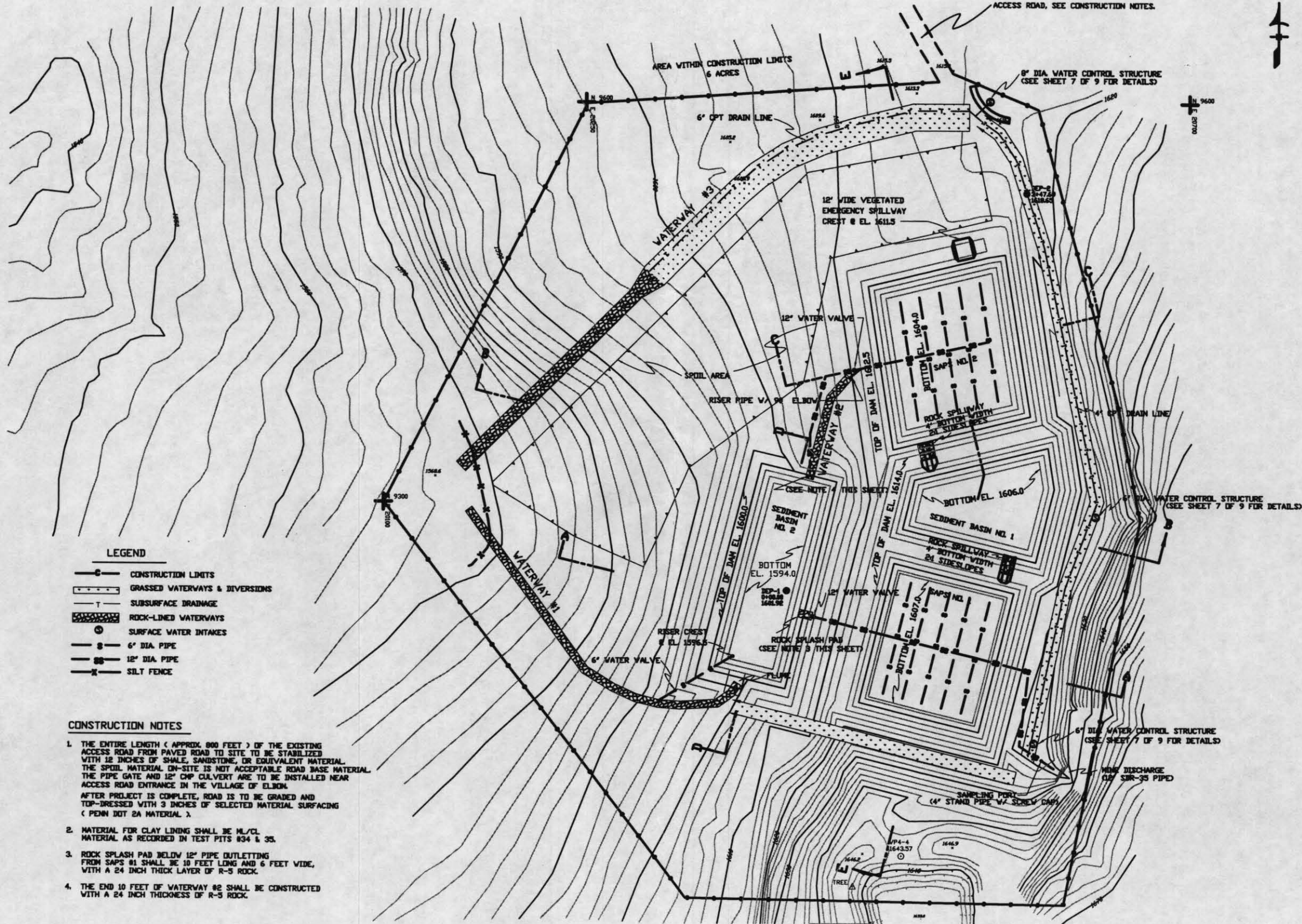
TRAVERSE ADJUSTMENT BY COMPASS
RULE METHOD.

ALL DIMENSIONS AND EXISTING
CONDITIONS SHALL BE CHECKED
AND VERIFIED BY CONTRACTOR
AT THE SITE.

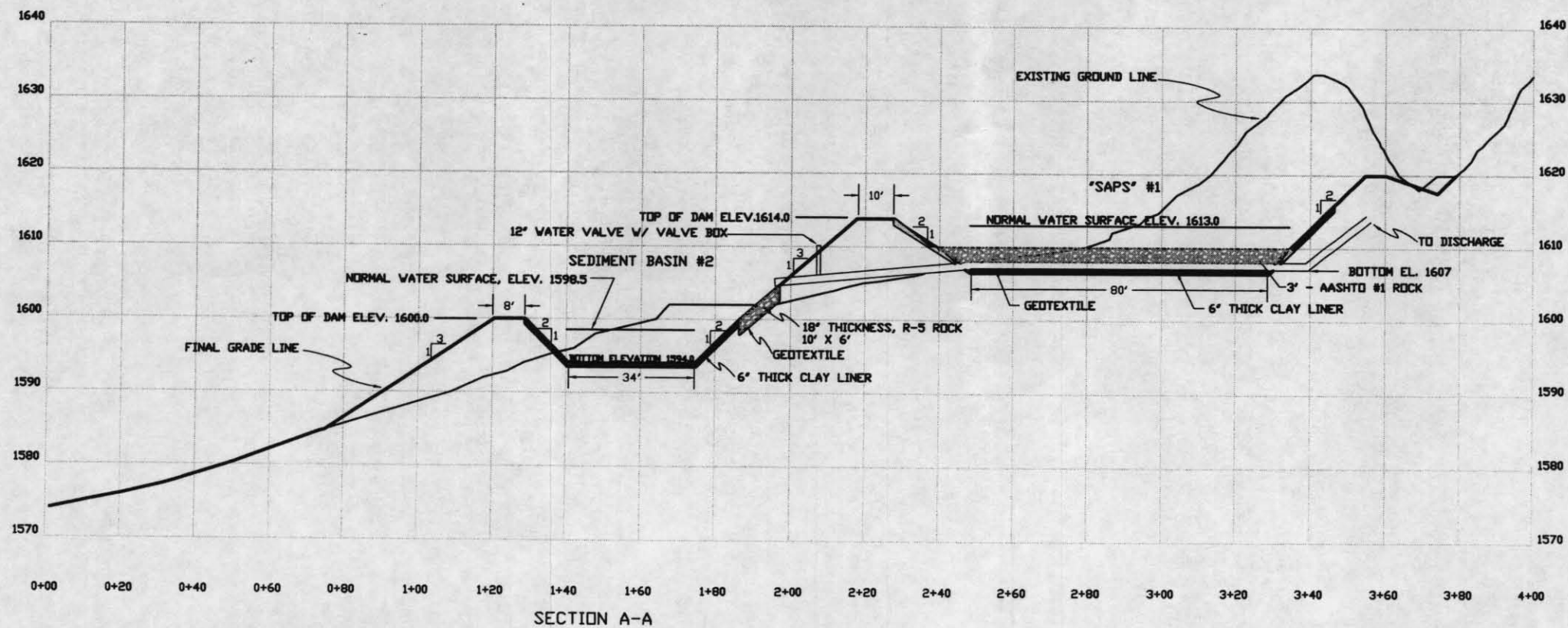
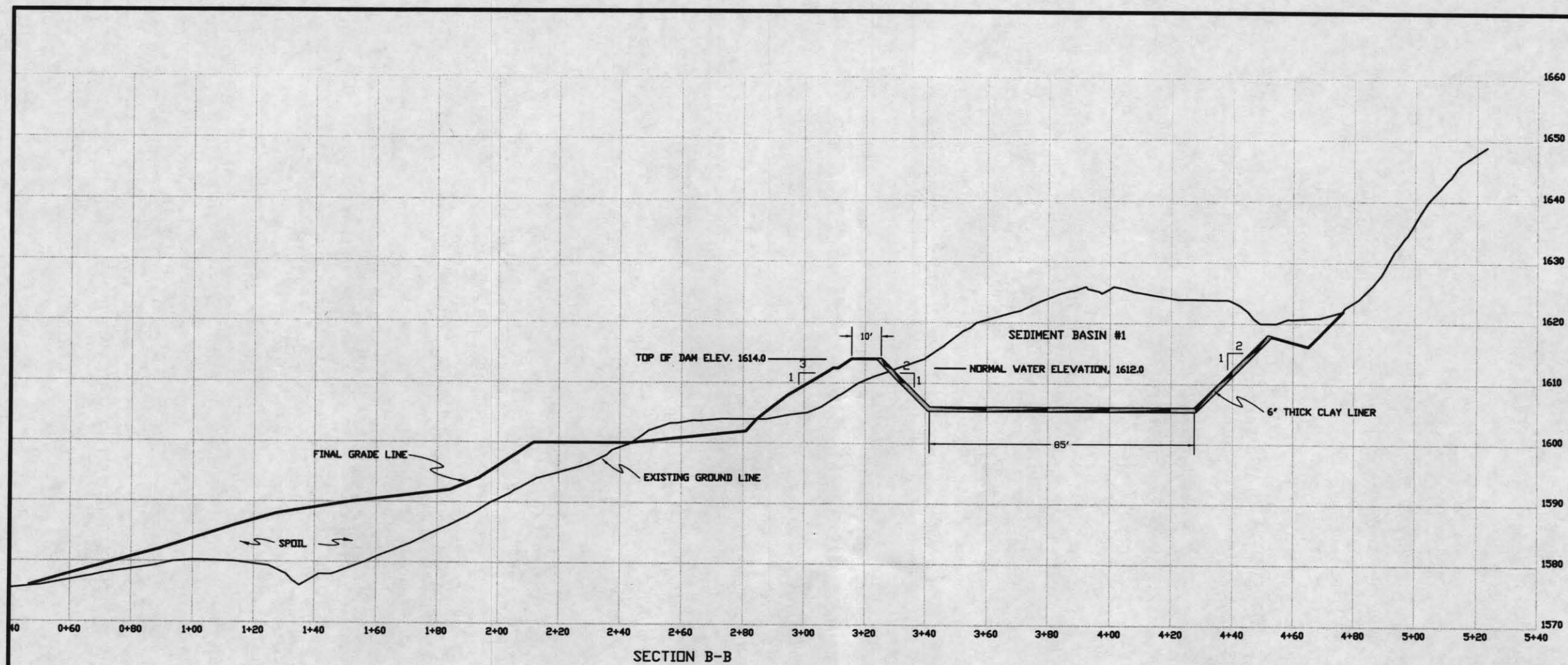
**LITTLE TOBY CREEK WATERSHED
AND SITE LT-36**
ELK COUNTY, PENNSYLVANIA
SITE CONTOURS

Drawn by	Checked by
Designed by	Approved by
Revised by	
1/00	1/00
J. FURMAN	

Drawing No.	SHT2.DWG
Sheet	2 of 9



Date: _____ Approved by: _____ Title: _____ Title: _____	
Design: EES Drawn: J. FURMAN Revised: _____ Checked: _____	Date: 4/00 Title: _____ Title: _____
USDA NRCS Natural Resources Conservation Service	
LITTLE TOBY CREEK WATERSHED AND SITE LT-36 ELK COUNTY, PENNSYLVANIA PLAN VIEW	
Drawing No. FINALMAP.DWG Sheet 3 of 9	

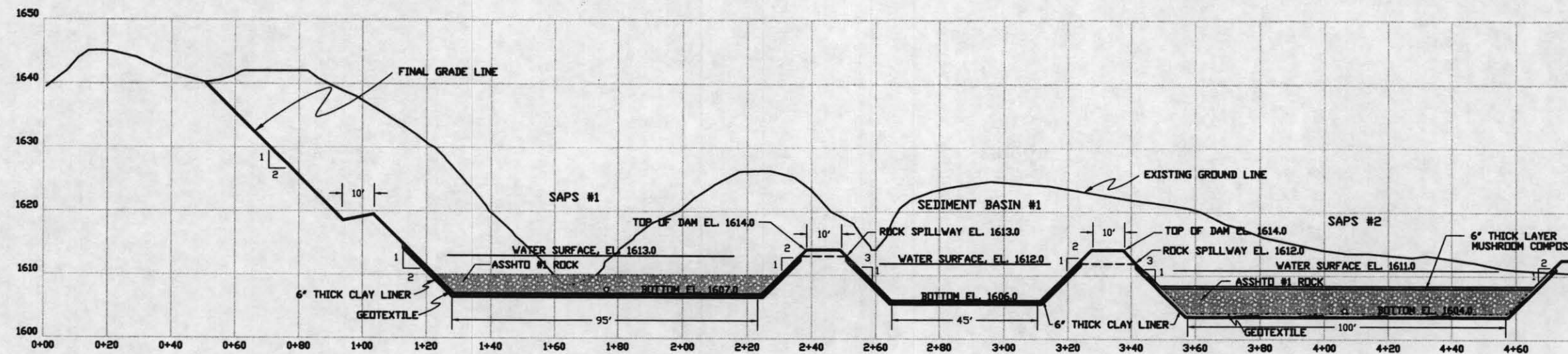


Designed by	____	____	____
Drawn by	____	____	____
Reviewed by	____	____	____
Checked by	____	____	____

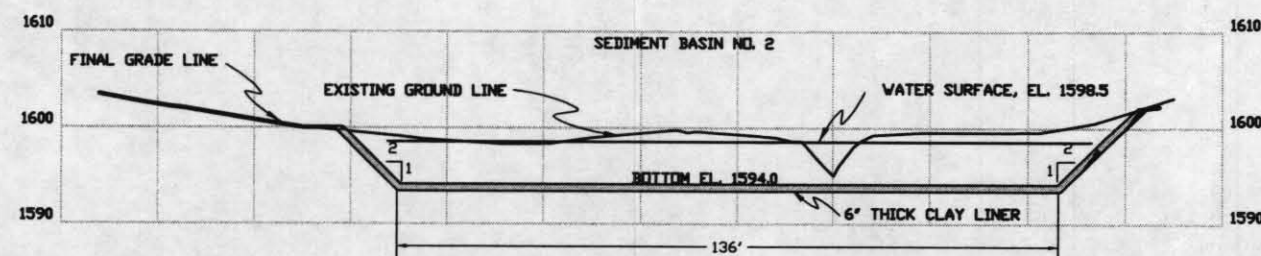
USDA NRCS
Natural Resources Conservation Service

LITTLE TOBY CREEK WATERSHED
AND SITE LT-36
ELK COUNTY, PENNSYLVANIA
CROSS SECTIONS

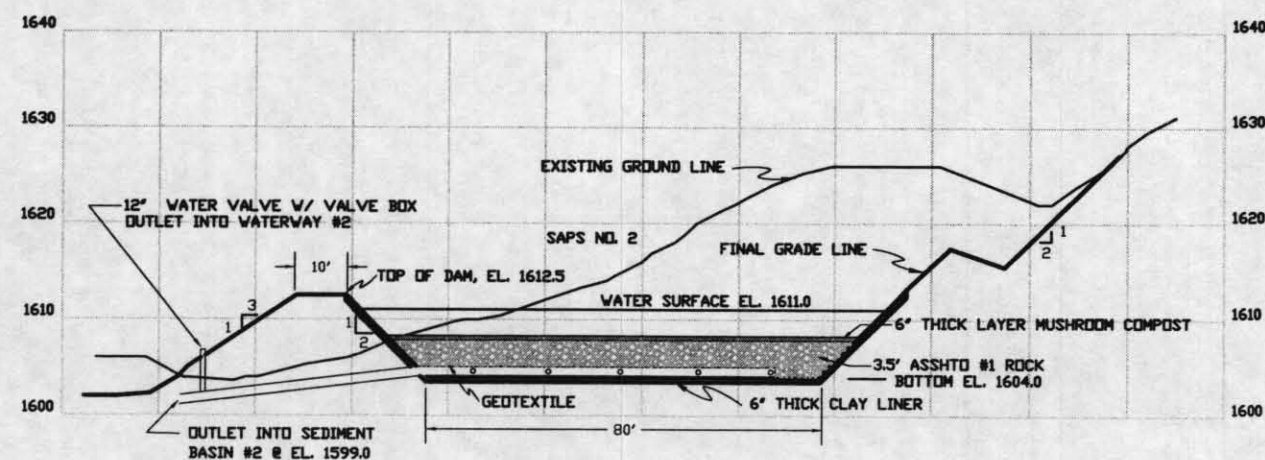
Drawing No. _____
Sheet No. 4 of 9
FINAL MAP.DWG



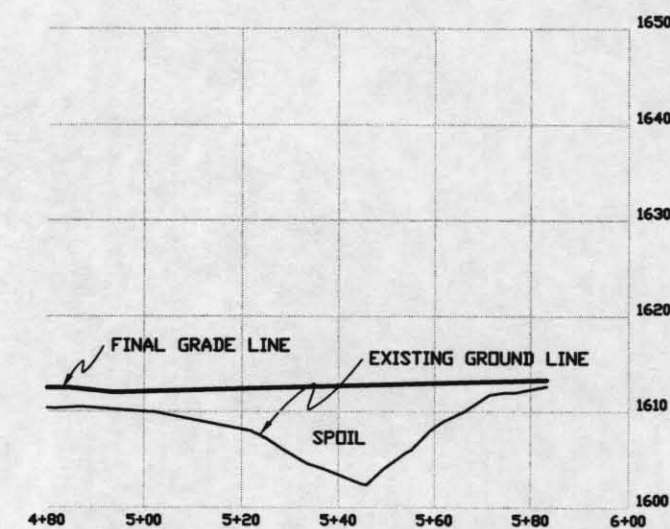
SECTION E-E



SECTION D-D



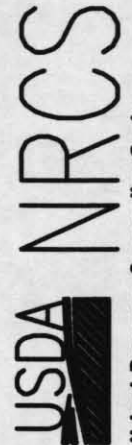
SECTION C-C



SECTION E-E, CONTINUED

CROSS SECTION CONTINUED BELOW

Date <u>5-00</u> Approved by <u>RES</u> Title <u>RES</u>		Date <u>5-00</u> Approved by <u>RES</u> Title <u>RES</u>	
Design <u>RES</u> Draw <u>RES</u> Revised <u>RES</u> Checked <u>RES</u>		Design <u>RES</u> Draw <u>RES</u> Revised <u>RES</u> Checked <u>RES</u>	

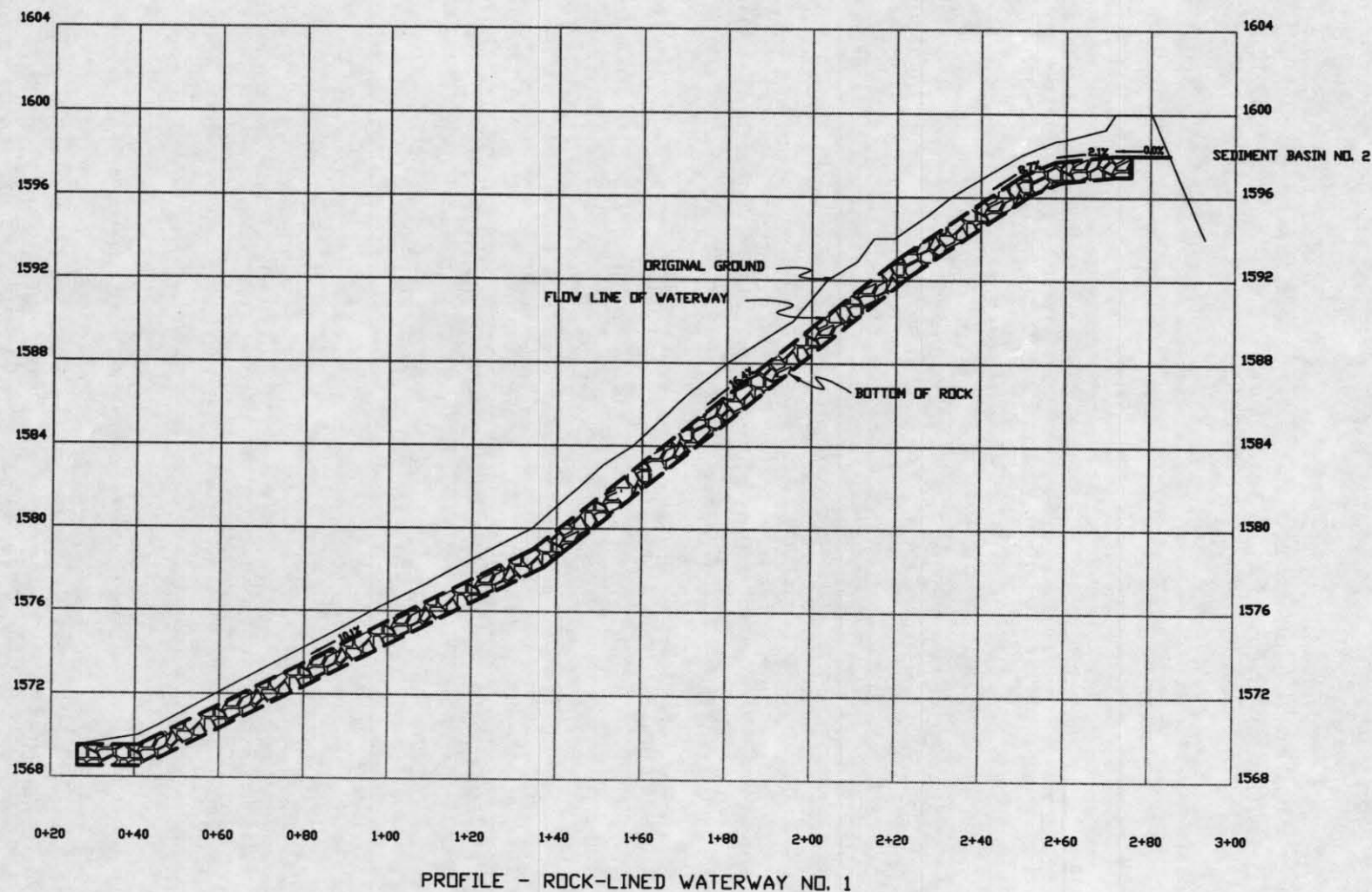
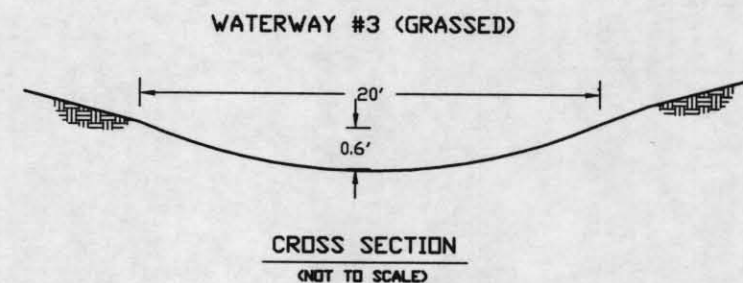
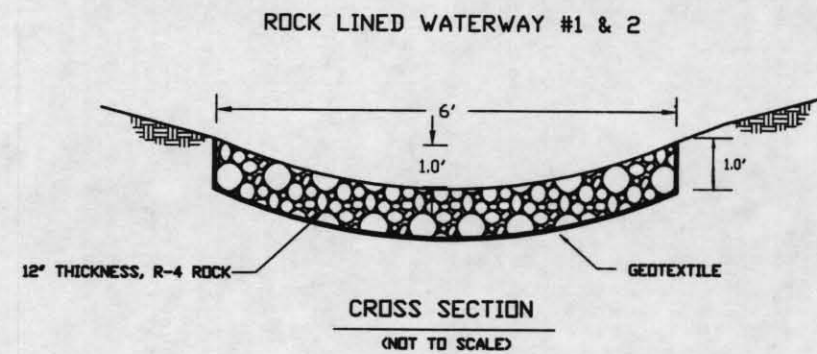
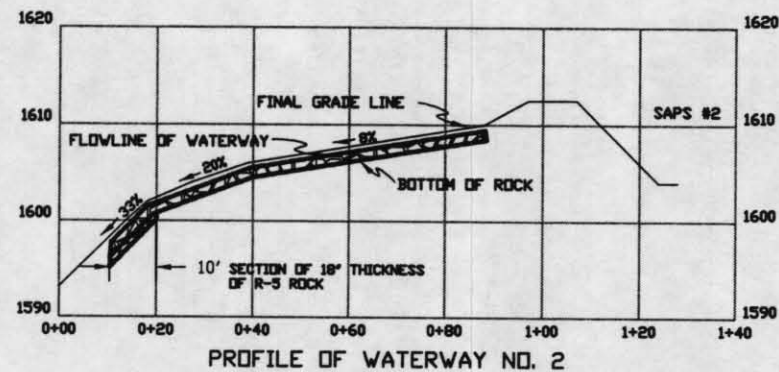


USDA NRCS
Natural Resources Conservation Service

**LITTLE TOBY CREEK WATERSHED
AND SITE LT-36**
ELK COUNTY, PENNSYLVANIA

CROSS SECTIONS

Drawing No. <u>FINALMAP.DWG</u>
Sheet No. <u>5</u> of <u>9</u>

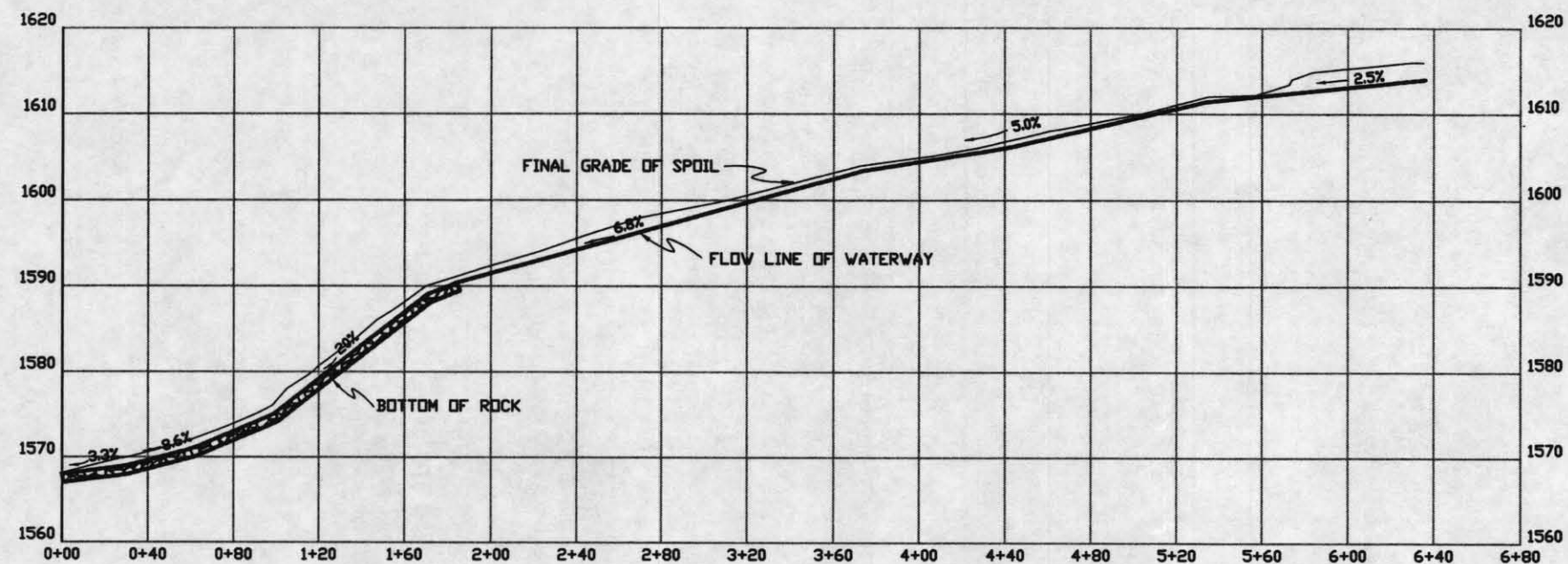


Designed by	Drawn by	Reviewed by	Checked by
JES	JES		
Date	Date	Date	Date
5-00	5-00		

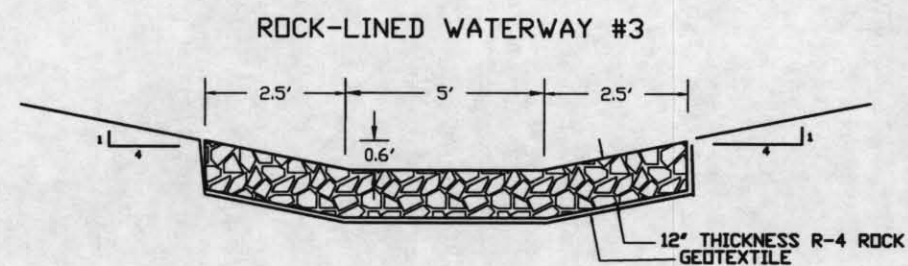


LITTLE TOBY CREEK WATERSHED
AND SITE LT-36
ELK COUNTY, PENNSYLVANIA
WN #1 & 2 PROFILES & TYPICALS

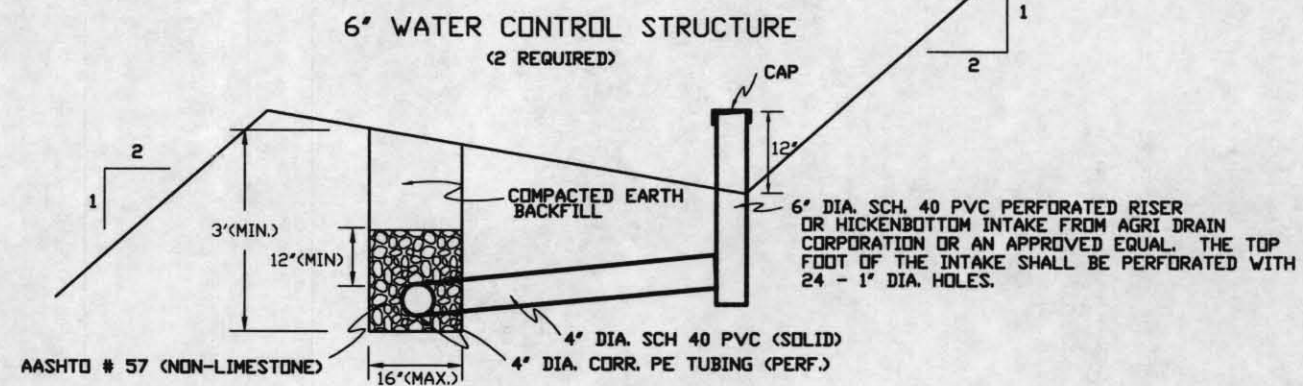
Drawing No.	PROFILES2.DWG
Sheet	6 of 9



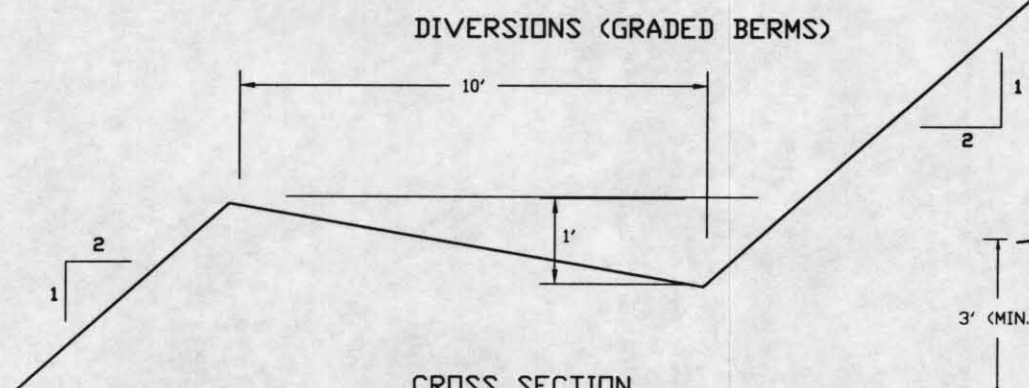
PROFILE OF WATERWAY #3



CROSS SECTION
NOT TO SCALE

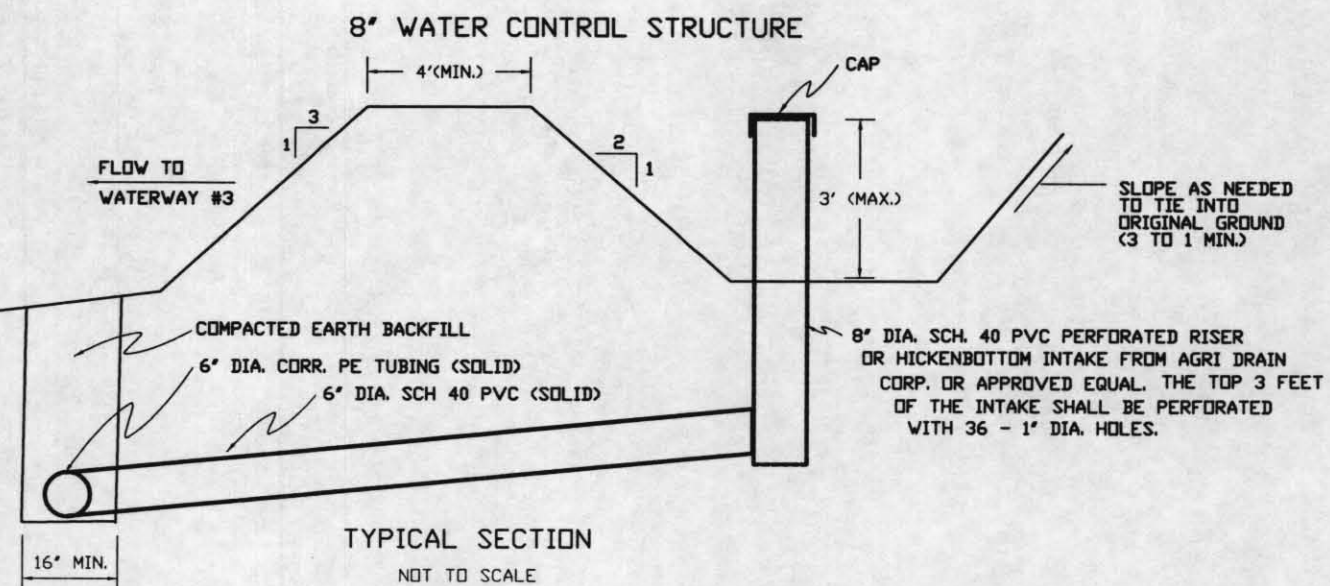


TYPICAL SECTION
NOT TO SCALE



CROSS SECTION
NOT TO SCALE

NOTE: DIVERSIONS TO BE INSTALLED ON 1% GRADE.



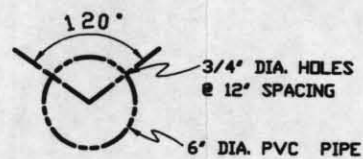
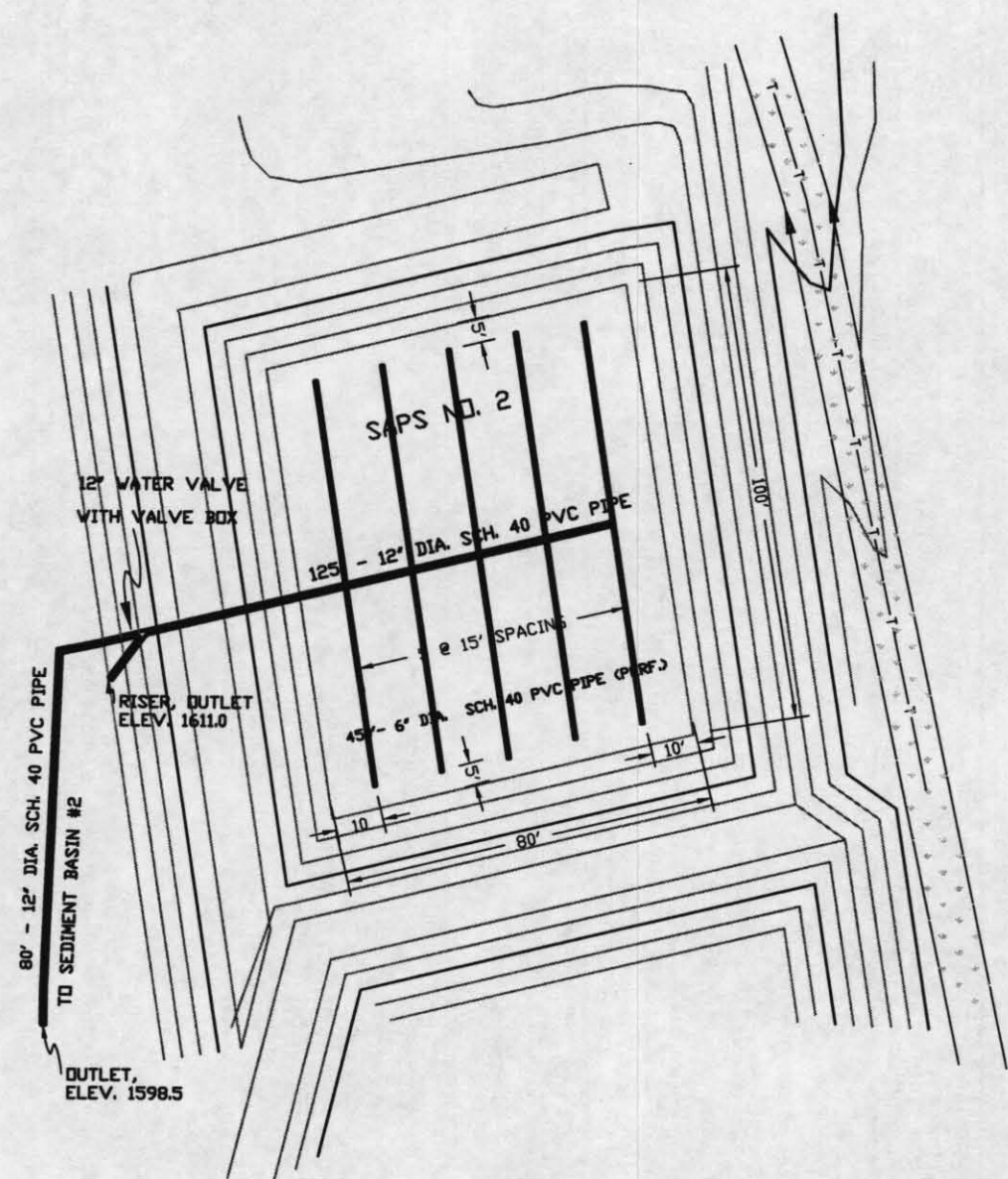
TYPICAL SECTION
NOT TO SCALE

Designated	5-00	5-00	5-00	5-00
Drawn	ES	ES	ES	ES
Revised	ES	ES	ES	ES
Checked				

USDA NRCS
Natural Resources Conservation Service

LITTLE TODY CREEK WATERSHED
AND SITE LT-36
ELK COUNTY, PENNSYLVANIA
WV #3 PROFILE & TYPICAL SECTIONS

Drawing No. PROFILES.DWG
Sheet No. 7 of 9

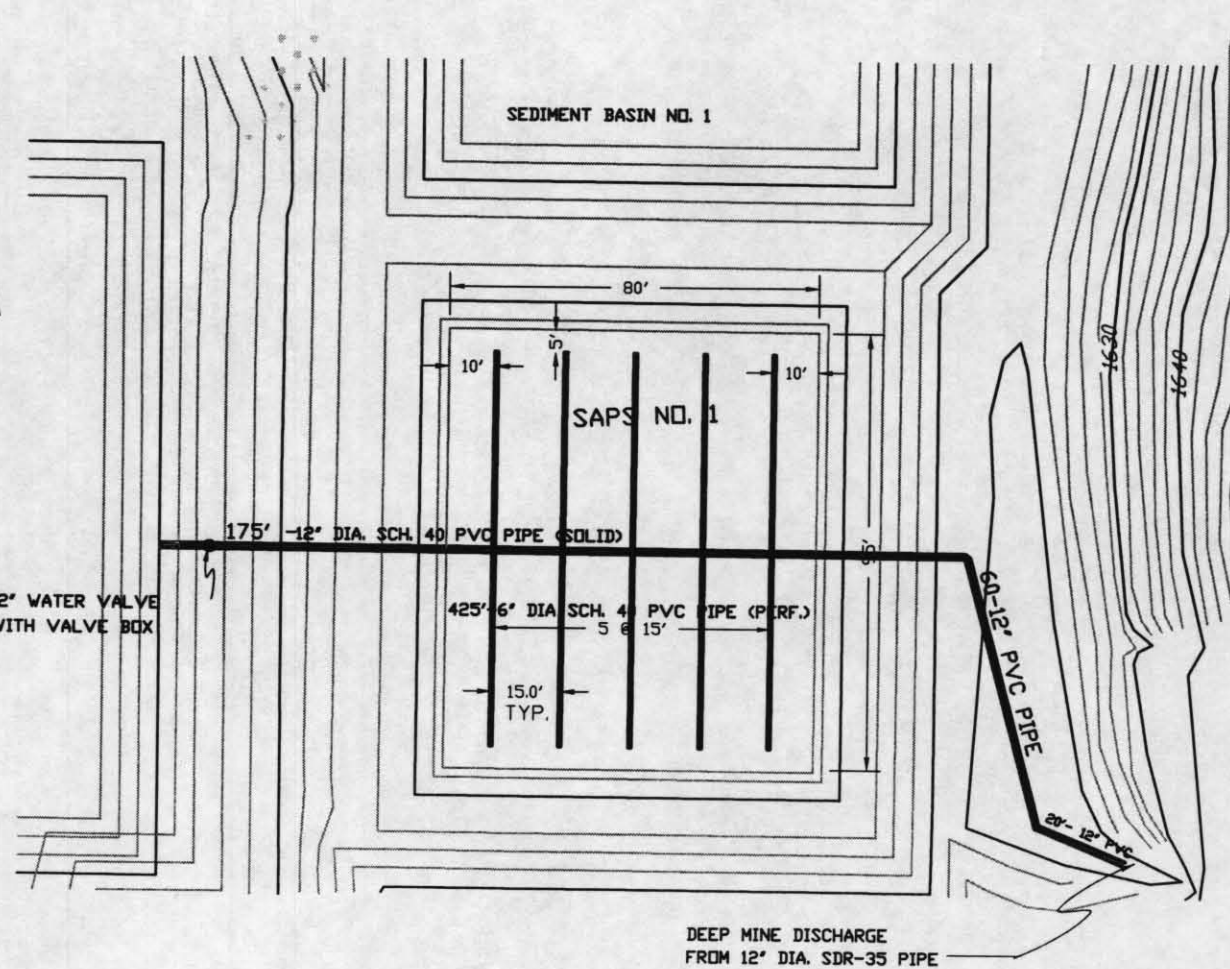


PIPE PERFORATION DETAIL

NOTE: PIPE TO BE INSTALLED WITH HOLES UP.

ESTIMATED EARTHWORK QUANTITIES

COMPONENT OF PROJECT	EXCAVATION	FILL
SAPS #1	8,000 CU. YD.	1,000 CU. YD.
SEDIMENT BASIN #1	5,000	500
SAPS #2	4,000	1,500
SEDIMENT BASIN #2	2,000	2,500
CLAY LINER	1,000	1,000
SPOIL	-	13,500



DEEP MINE DISCHARGE
FROM 12" DIA. SDR-35 PIPE

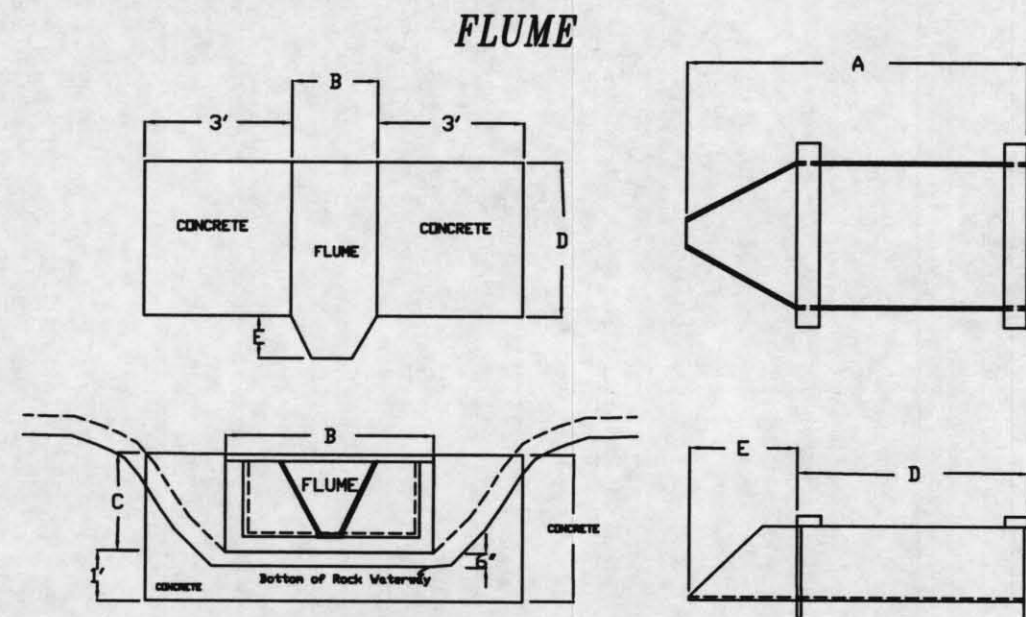
Approved by _____
Title _____
Date _____

Designed by _____
Drawn by _____
Reviewed by _____
Checked by _____

USDA NRCS
Natural Resources Conservation Service

LITTLE TOBY CREEK WATERSHED
AND SITE LT-36
ELK COUNTY, PENNSYLVANIA
PIPING SYSTEM LAYOUT

Drawing No. _____
Sheet _____ of _____
No. 8 of 9



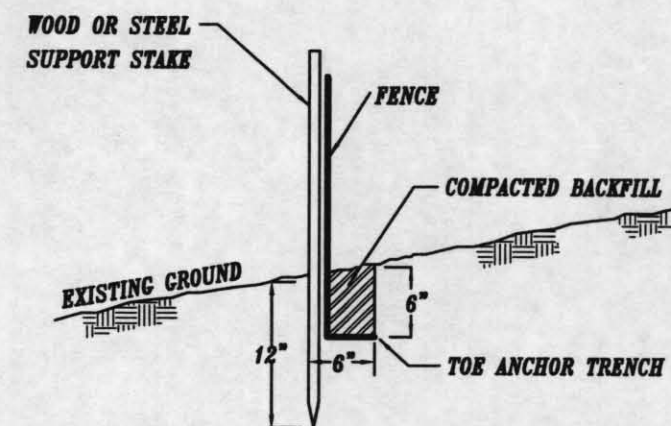
(NOT TO SCALE)

NOTE:
Recommended Model: H-Flume Model 50H (Or Equivalent)
Dimensions

MODEL	CAPACITY	A	B	C	D	E
50H	140 gpm	26 3/4	15 7/16	8 5/8	18 5/8	8 1/8

* All Dimensions are approximate

FILTER FABRIC FENCE



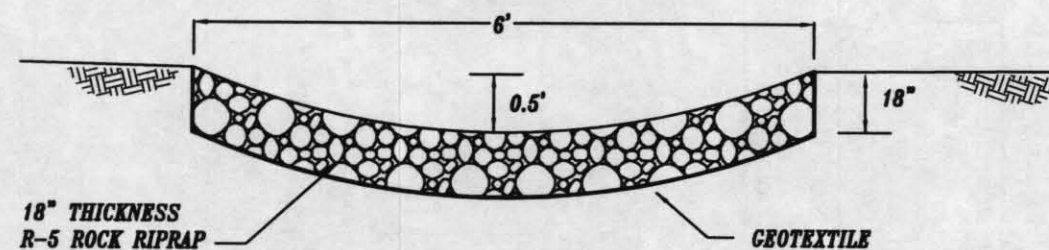
CROSS SECTION

(NOT TO SCALE)

CONSTRUCTION NOTES:

1. THE SPACING OF SUPPORT STAKES SHALL BE 8' MAXIMUM.
2. THE MAXIMUM FENCE HEIGHT SHALL BE 18 INCHES.
3. THE FENCE SHALL BE PLACED ON THE CONTOUR.

ROCK SPLASH PADS



CROSS SECTION

(NOT TO SCALE)

NOTE: EACH PAD TO BE 10' LONG.

Approved by	_____
Title	_____
Designated	_____
Drawn	_____
Revised	_____
Checked	_____

USDA NRCS
Natural Resource Conservation Service

**LITTLE TOBY CREEK WATERSHED
AND SITE LT-36**
ELK COUNTY, PENNSYLVANIA
DETAILS

Drawing No.	DETAILS.DWG
Sheet	9 OF 9