

ACID MINE DRAINAGE ABATEMENT PROJECT
ROCKY RIDGE SOUTH

HUNTINGDON COUNTY

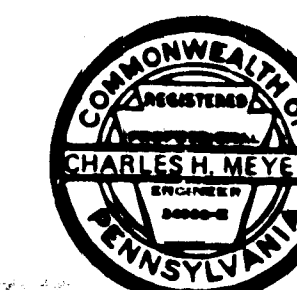
DRAWING INDEX

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GOVERNOR

SECRETARY OF ENVIRONMENTAL PROTECTION

DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF ABANDONED MINE RECLAMATION
EBENSBURG DISTRICT



CHARLES H. MEYERS P.E.
DISTRICT ENGINEER - EBENSBURG
DEPARTMENT OF ENVIRONMENTAL PROTECTION

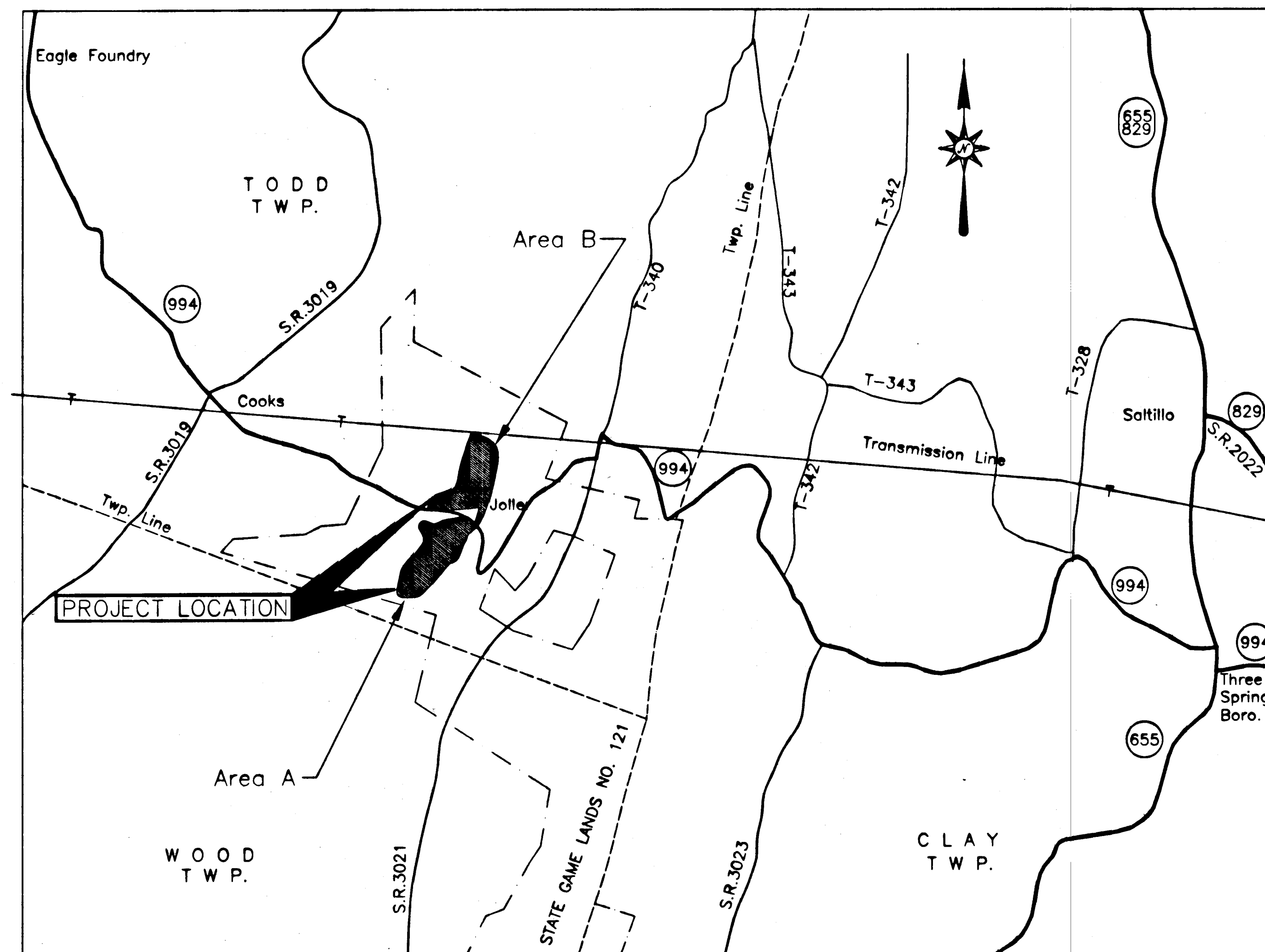
8-1-9
DATE

- 1 PENNSYLVANIA GAME COMMISSION
2001 ELMERTON AVE.
HARRISBURG, PA. 17110-9797
- 2 EAST BROAD TOP RAILROAD & COAL CO.
BOX 158
ROCKHILL FURNACE, PA. 17249

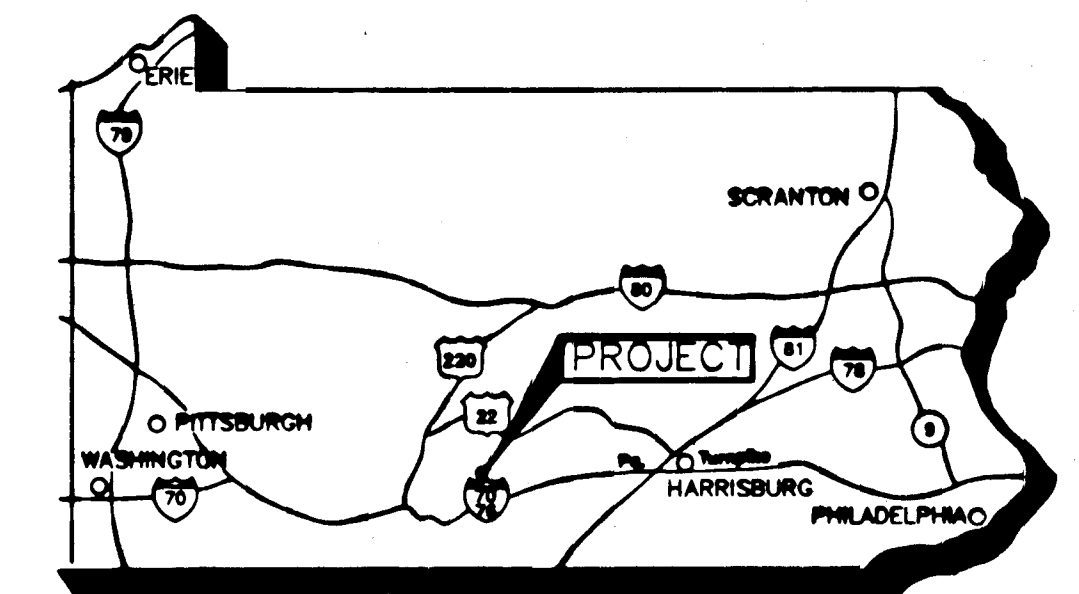
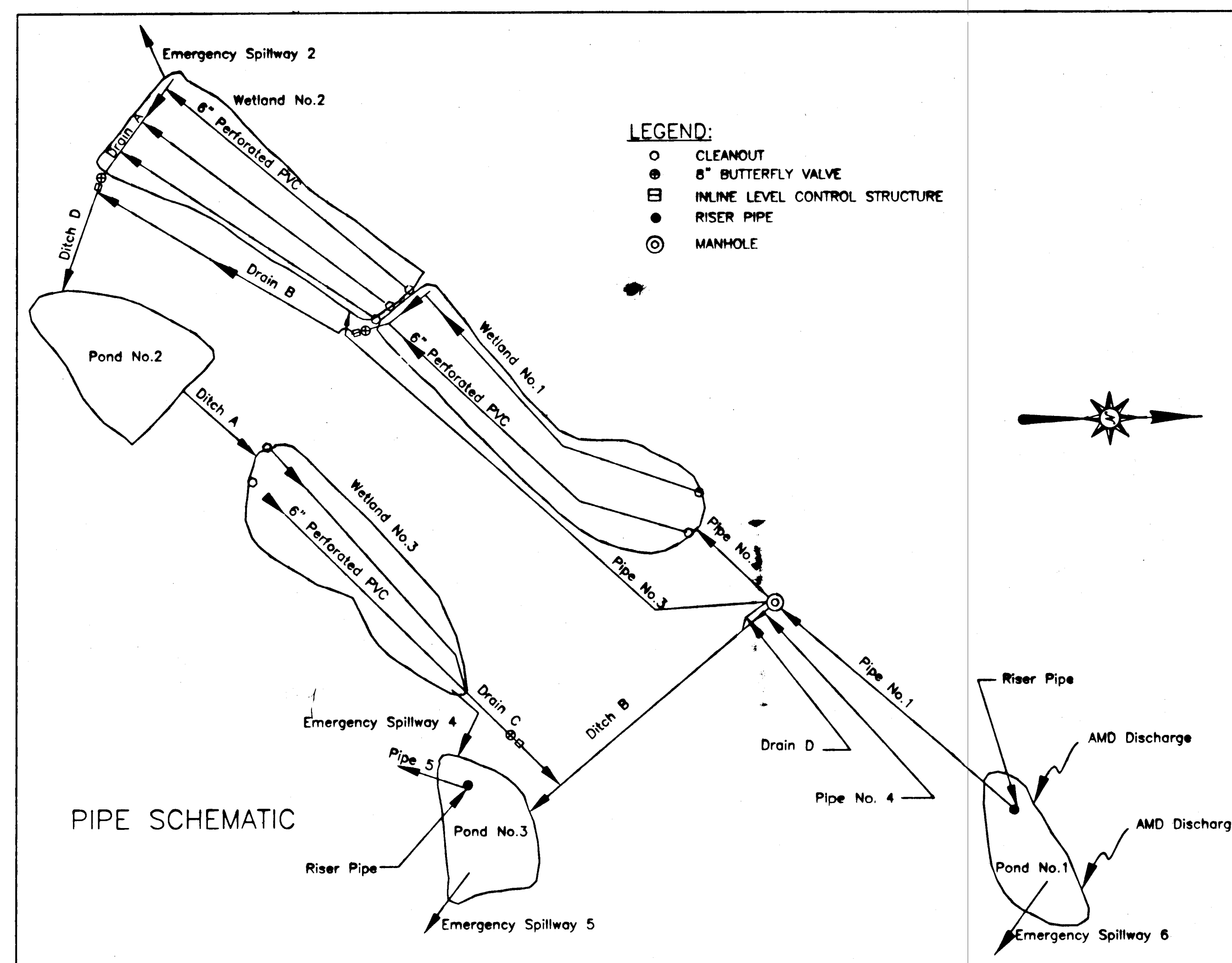
———	LIMITS OF CONTRACTOR'S WORKING AREA (C.W.A.), GRADING (WHERE APPLICABLE), AND SEEDING (WHERE APPLICABLE)
———	LIMITS OF GRADING AND SEEDING (WHERE APPLICABLE)
——1280——	PROPOSED CONTOURS
-----1280-----	EXISTING CONTOURS
→ → →	DITCH
——P——	APPROXIMATE PROPERTY LINE
——2+00——	CONSTRUCTION BASELINE
Ø	UTILITY POLE
——E——	OVERHEAD POWER LINE
——T——	OVERHEAD TELEPHONE LINE
——UT——	UNDERGROUND TELEPHONE LINE
Λ	DEEP MINE OPENING
-----	PIPES AND DRAINS
.....	SUBSURFACE DRAIN
→	SPILLWAY
⊙	MANHOLE
●	RISER PIPE
□	INLINE LEVEL CONTROL STRUCTURE
⊗	8 INCH. DIA. PVC BUTTERFLY VALVE
———	SEDIMENT BASIN
.....	LIMIT OF SEDIMENT BASIN BACKFILL
——ff——	FILTER FABRIC FENCE
→ > →	DIVERSION DITCH
→ ▴ ▴ ▴ →	TEMPORARY COLLECTION DITCH
○	CLEANOUT
PP——PP	4" PERFORATED PIPE (PROPOSED)

UNDER PUBLIC UTILITIES ACT NO. 187
The Contractor shall comply with the Act of December 10, 1974 (Public Law 852, No. 287), As Amended, which defines the procedures for notification to Public Utilities prior to excavation, drilling or demolition work using power equipment or explosives.

COMPANY	TYPE OF FACILITY	ADDRESS	PHONE
Pennsylvania Electric Co.	Overhead Power Lines	405 West Plank Road P. O. Box 1928 Altoona, Pa. 16603	Contact: Tom Luther Bedford Foreman (814)-632-2741
Sprint/United Telephone	Overhead Telephone Lines	c/o Juls, Inc. 13 Brookwood Ave. Carlisle, Pa. 17013	(717)-249-5857



Scale 1 in. = 2000 ft.

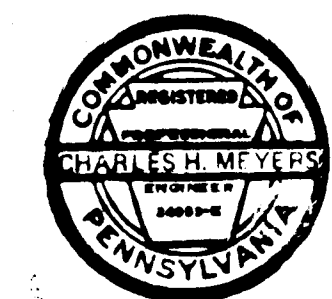


No Scale

1. Elevations of the features are to be taken from the Bench Marks shown on the Drawing(s).
2. Limits of Grading and Seeding as shown on the plan are approximate. Minor deviations may be permitted subject to the approval of the Engineer.
3. All areas outside of the seeding limits that are disturbed by the Contractor must be restored to as good as or better than the existing conditions.
4. All areas where 2 ft. contours are not shown shall be graded at a uniform slope between 10 ft. contour intervals.
5. Minor adjustments in the grade may be made by the Engineer to suit field conditions.
6. Location(s) of the utilities shown on the Drawings are based on the information provided by the utility companies. The accuracy of this information is not guaranteed. The Contractor shall contact the utility companies listed on this drawing prior to any construction activity.
7. Impoundment depths as shown on the cross sections are based on visual observations only and are not guaranteed. The Contractor shall dewater all impoundments existing, within the grading limits, at the time of construction of the project.
8. The property lines as shown on the drawing are approximate.
9. The soil cover area indicated on Site A basically includes the area northeast of ditch B and between ponds 1 and 3. Minor adjustments to this area may be necessary to suit field conditions.

NO.	DATE	REVISION	APPR

SUBMITTED	<i>[Signature]</i>
DESIGN ENGINEER	
REVIEWED	<i>[Signature]</i>
DESIGN SECTION CHIEF - EROSION CONTROL	
APPROVED	<i>[Signature]</i>
DISTRICT ENGINEER - EROSION CONTROL	



COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION

CONTRACT NO. AMD 31(6959)101.1

AMD ABATEMENT PROJECT
ROCKY RIDGE SOUTH

TODD TWP. HUNTINGDON COUNTY

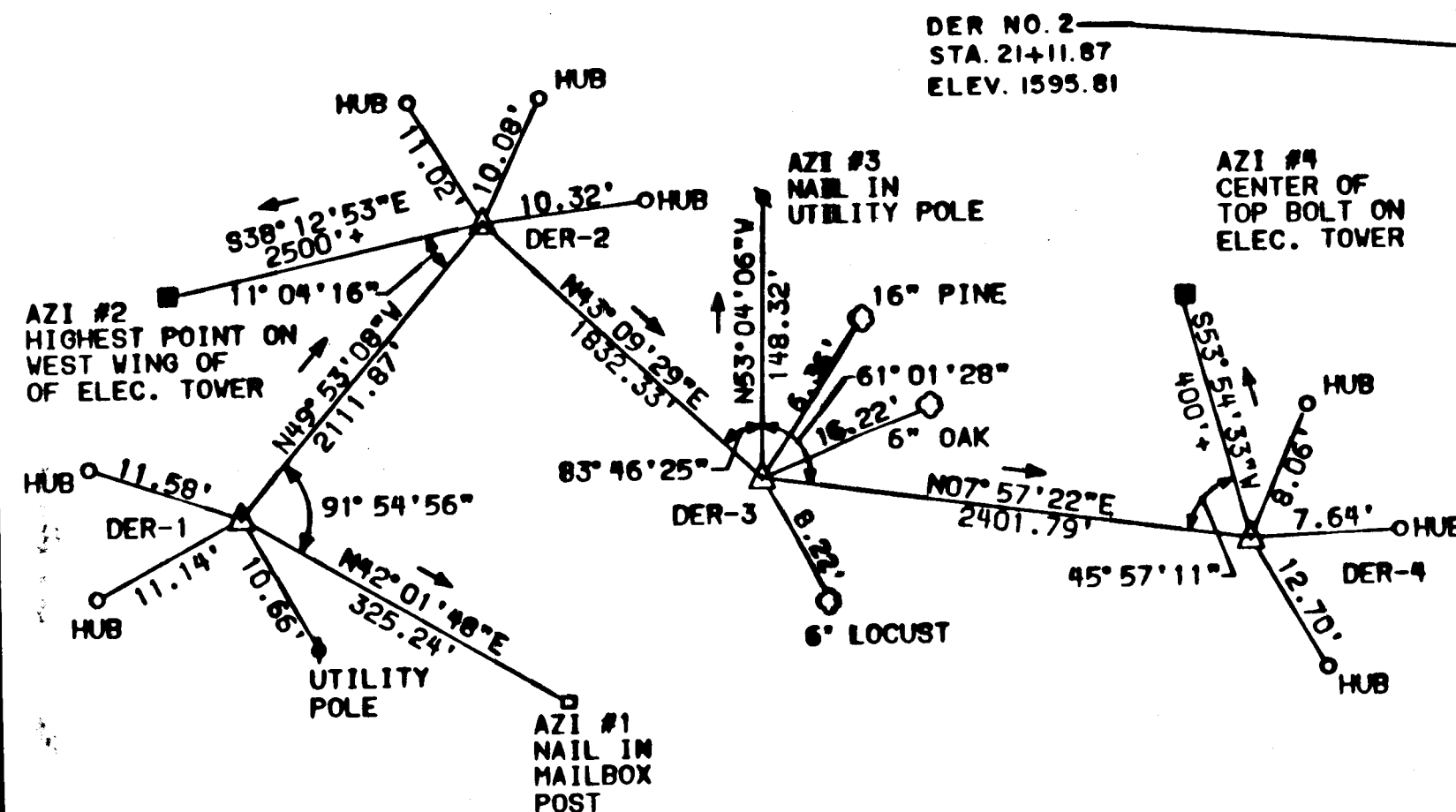
LOCATION, VICINITY MAPS AND PIPE SCHEMATIC

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

DRAWN BY LEEG WTS	DATE May 19, 1997	DRAWING NO. 2 of 13
CHECKED BY ACAD DWG. NO. 316000-2.DWG	SCALE As Shown	

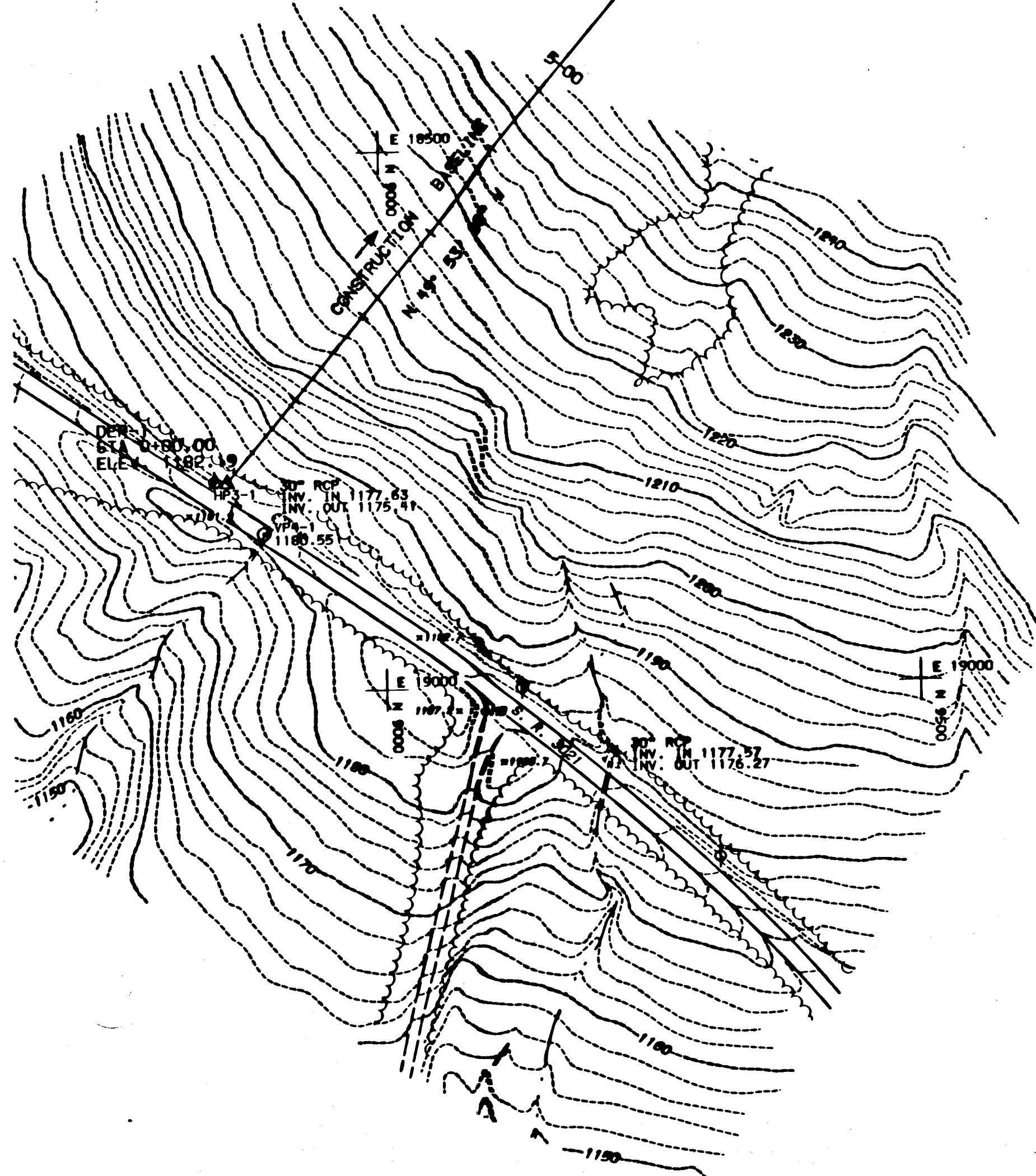
CONSTRUCTION BASELINE DATA

BENCH MARK DATA						
BH NO.	BASELINE STA.	ELEVATION	DESCRIPTION	N. COORDINATE	E. COORDINATE	
DER 1	0+00.00	1182.19	5/8" REBAR WITH CAP	8854.61	18804.55	
DER 2	21+11.87	1595.01	5/8" REBAR WITH CAP	10215.31	17189.40	
DER 3	39+44.20	1647.55	5/8" REBAR WITH CAP	11551.94	18442.83	
DER 4	63+45.99	1783.82	5/8" REBAR WITH CAP	13930.62	18775.26	



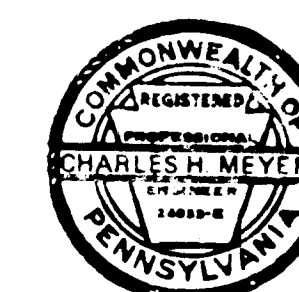
NOTE:

REFERENCE PIPE SCHEMATIC AS NEEDED (SEE DRAWING NO. 2 of 13)



TOPOGRAPHY BY:
THE EADS GROUP
ALICONA, PA 16608
USING AERIAL PHOTOGRAPHY
DATED 11-04-93.
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
ON THE SITE.

NO.	DATE	REVISION	APPROVED
SUBMITTED	<i>[Signature]</i>		
	DESIGN ENGINEER		
REVIEWED	<i>[Signature]</i>		
	DESIGN SECTION CHIEF / EMBURG		
APPROVED	<i>[Signature]</i>		



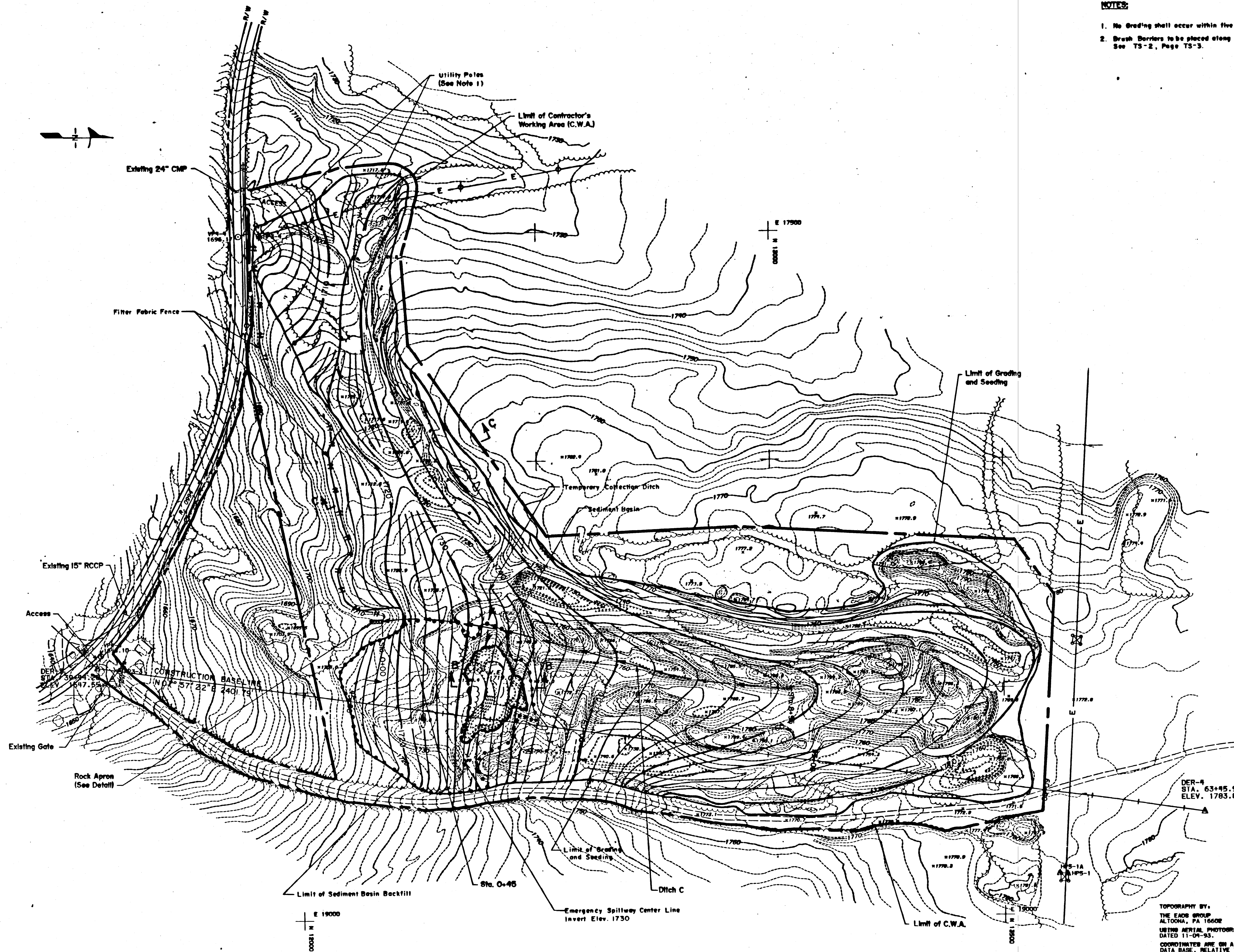
COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
CONTRACT NO. AMD 31 (6959) 101.1

**AMD ABATEMENT PROJECT
ROCKY RIDGE SOUTH**

TODD TWP. HUNTINGDON COUNTY

PLAN - AREA A

DRAWN BY WTS / RROY	DATE MAY 16, 1997	DRAWING NO. 3 of 13
CHECKED BY	SCALE AS SHOWN	



- NOTES:**
1. No Grading shall occur within five feet of wood poles.
 2. Brush Barriers to be placed along circumference of Limit of Grading. See TS-2, Page TS-3.

NO.	DATE	REVISION

SUBMITTED: *[Signature]*
 REVIEWED: *[Signature]*
 APPROVED: *[Signature]*

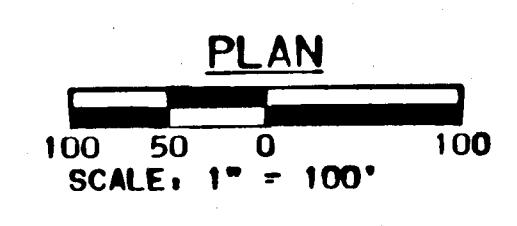
REGION ENGINEER
 DESIGN SECTION CHIEF
 DISTRICT ENGINEER - EDENSBURG

COMMONWEALTH OF PENNSYLVANIA
 DEPARTMENT OF ENVIRONMENTAL PROTECTION
 CONTRACT NO. AMD 31 (6959) 101.1
AMD ABATEMENT PROJECT
ROCKY RIDGE SOUTH
 TODD TWP. HUNTINGDON COUNTY

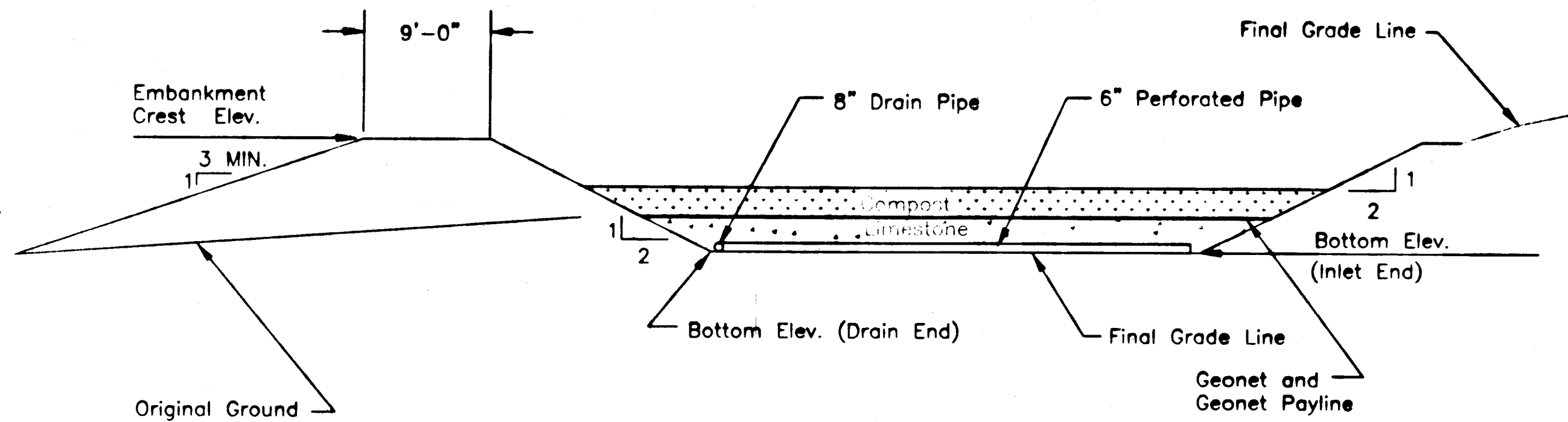
PLAN - AREA B

DRAWN BY: WTS CHECKED BY:	DATE: MAY 18, 1997 SCALE: AS SHOWN	DRAWING NO.: 4 of 13
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TOPOGRAPHY BY:
 THE S&B GROUP
 ALTOONA, PA 16602
 USING AERIAL PHOTOGRAPHY
 DATED 11-04-93.
 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.



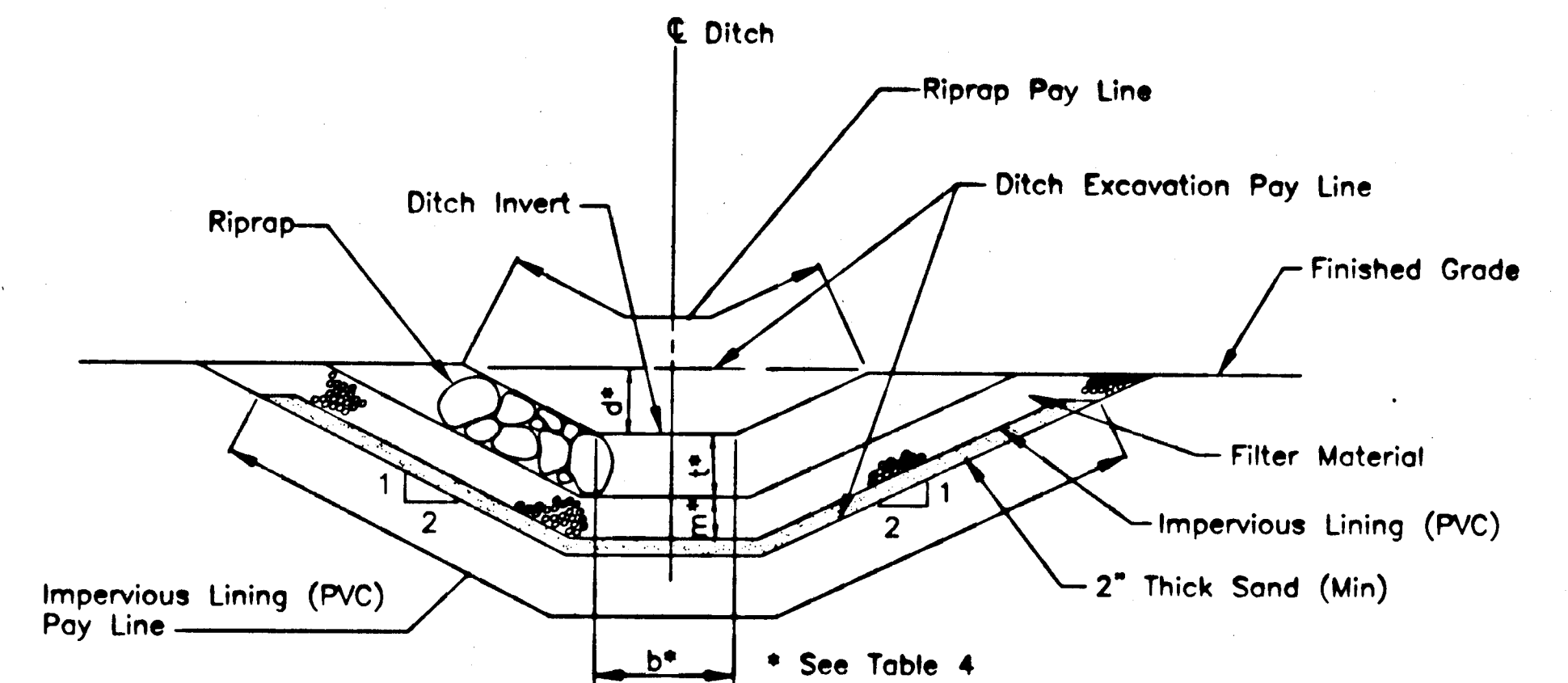
NOTE: See Table 1 for Elevations and Individual Layer Thicknesses



CONSTRUCTED WETLAND DETAIL
No Scale

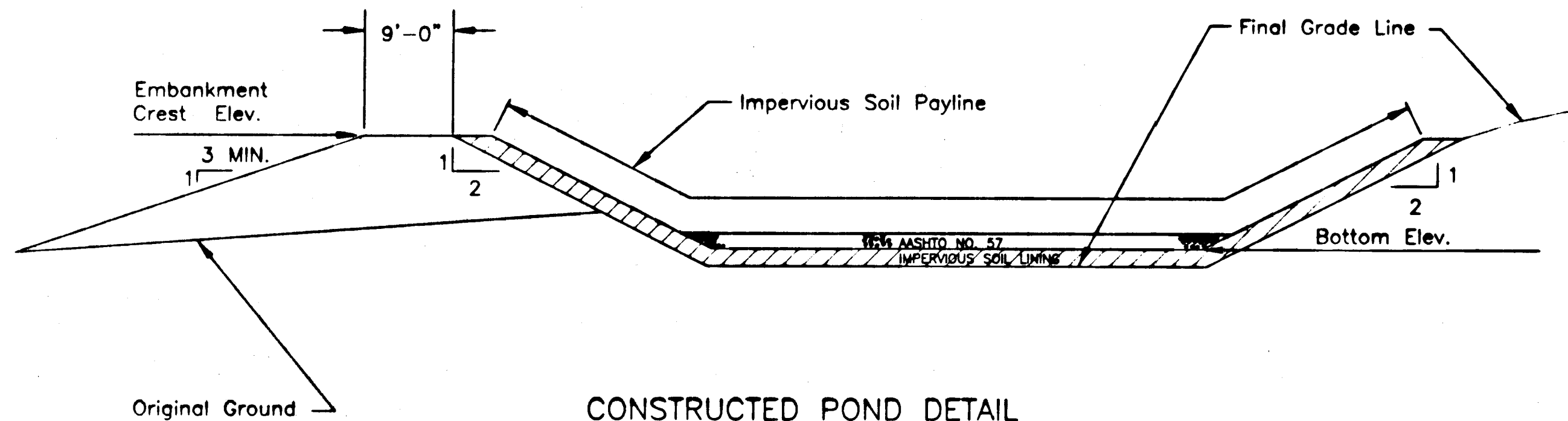
TABLE 1
INFORMATION FOR WETLAND CONSTRUCTION

WETLAND NO.	ELEVATIONS			LAYER THICKNESS		WATER DEPTH
	EMBANKMENT CREST	INLET END	DRAIN END	LIMESTONE	COMPOST	
1	1615.0	1610.0	1609.0	1.5 ft.	1.5 ft.	0.5 ft. - 1.5 ft.
2	1615.0	1610.0	1609.0	1.5 ft.	1.5 ft.	0.5 ft. - 1.5 ft.
3	1574.0	1568.0	1567.0	2.0 ft.	2.0 ft.	0.5 ft. - 1.5 ft.



RIPRAP DITCH WITH IMPERVIOUS LINING (PVC)
No Scale

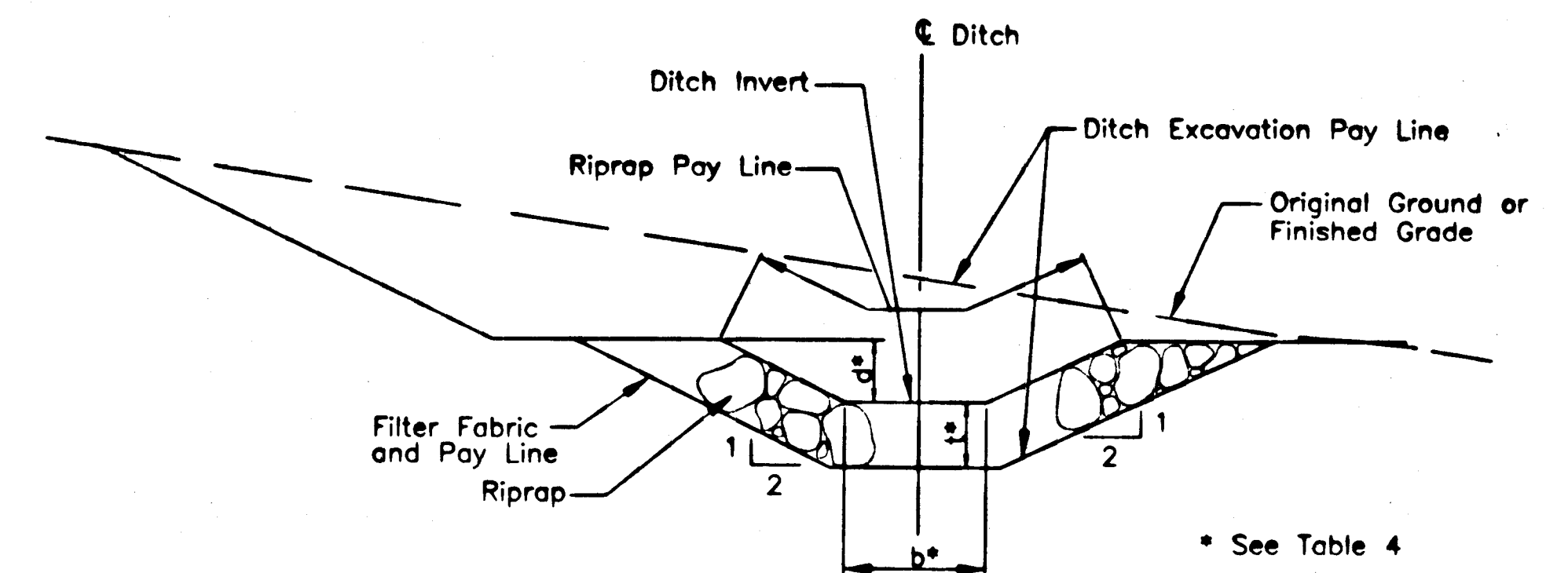
NOTE: See Table 2 for Elevations and Individual Layer Thickness



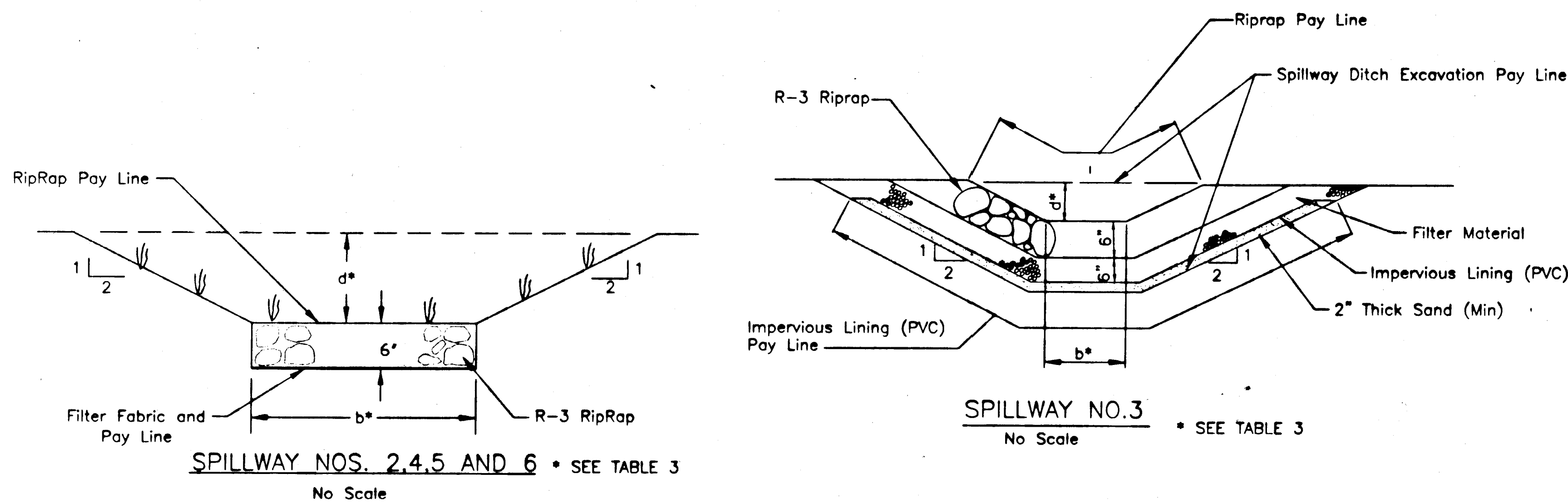
CONSTRUCTED POND DETAIL
No Scale

TABLE 2
INFORMATION FOR POND CONSTRUCTION

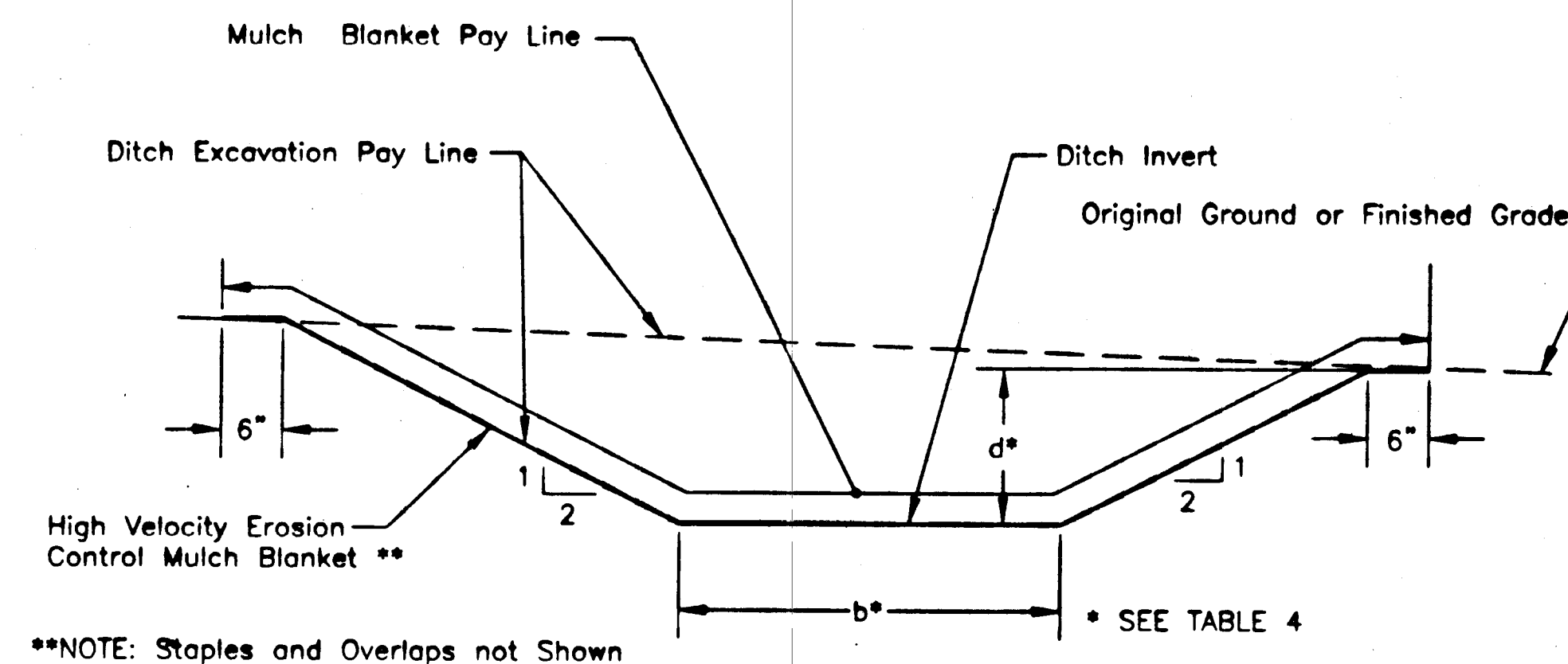
POND NO.	ELEVATIONS		IMPERVIOUS SOIL THICKNESS	AASHTO NO. 57 THICKNESS
	EMBANKMENT CREST	BOTTOM		
1	1626.0	1618.7	8 in.	6 in.
2	1578.0	1569.0	NONE	NONE
3	1548.0	1541.7	8 in.	6 in.



RIPRAP DITCH
No Scale

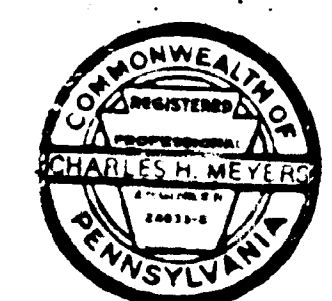


SPILLWAY NO. 3
No Scale



DITCH WITH HIGH VELOCITY EROSION CONTROL MULCH BLANKET
No Scale

NO.	DATE	REVISION	APPR
1	10/15/97	1	CHAS. H. MEYER
2	10/15/97	2	CHAS. H. MEYER
3	10/15/97	3	CHAS. H. MEYER
4	10/15/97	4	CHAS. H. MEYER
5	10/15/97	5	CHAS. H. MEYER
6	10/15/97	6	CHAS. H. MEYER
7	10/15/97	7	CHAS. H. MEYER
8	10/15/97	8	CHAS. H. MEYER
9	10/15/97	9	CHAS. H. MEYER
10	10/15/97	10	CHAS. H. MEYER



COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION

CONTRACT NO. AMD 31(6959)101.1

AMD ABATEMENT PROJECT
ROCKY RIDGE SOUTH

TODD TWP. HUNTINGDON COUNTY

WETLAND AND
DITCH DETAILS

DRAWN BY: LEEC/WTS	DATE: May 15, 1997	DRAWING NO.
CHECKED BY: CHAS. H. MEYER	SCALE: As Shown	5 of 13

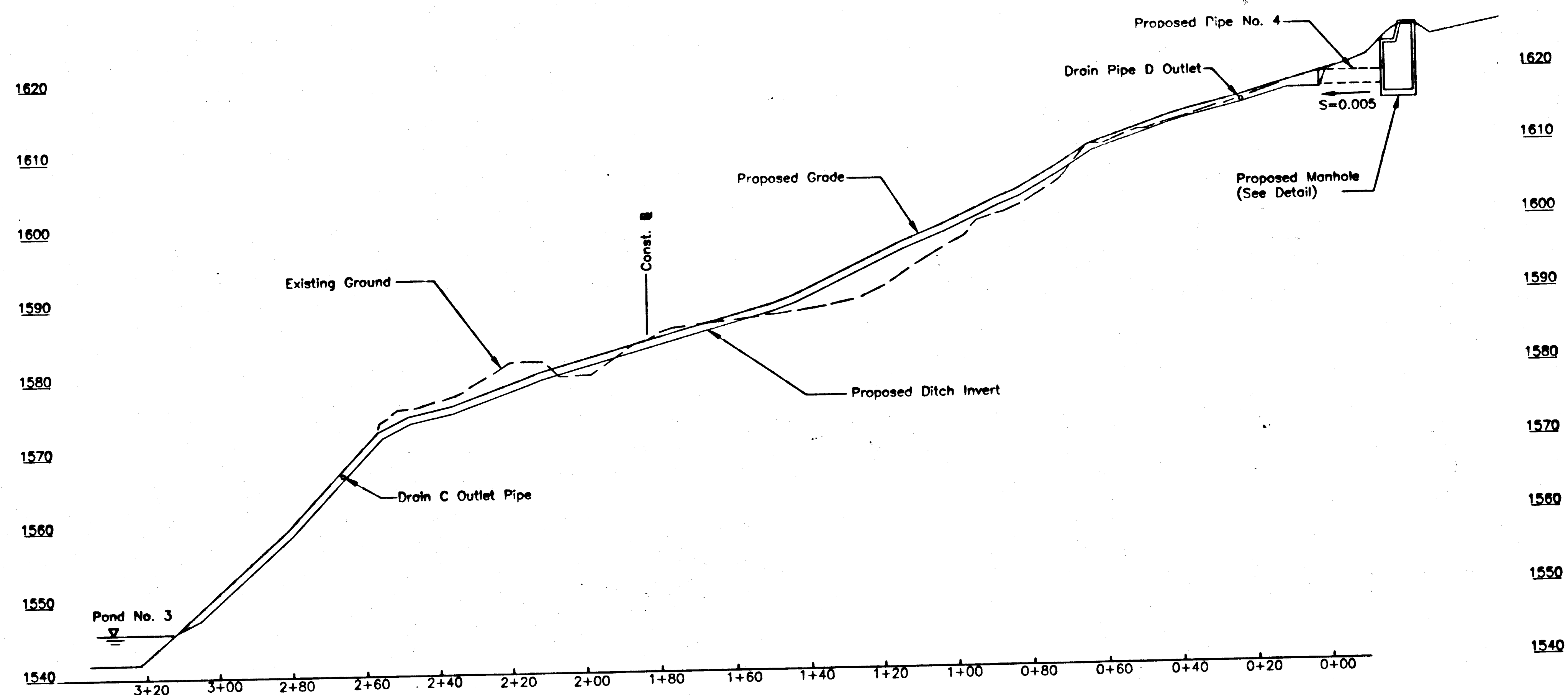
ALL DIMENSIONS AND EXISTING
CONDITIONS SHALL BE CHECKED
AND VERIFIED BY CONTRACTOR
AT THE SITE.

TABLE 3
INFORMATION FOR SPILLWAY CONSTRUCTION

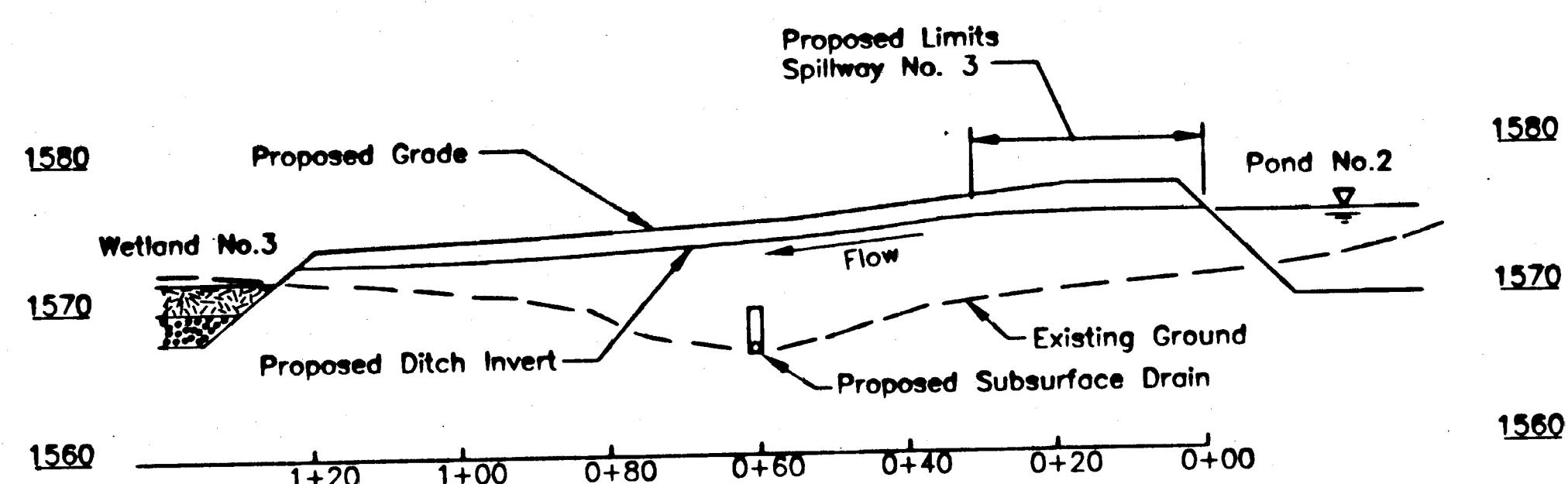
SPILLWAY NO.	b	d	APPROX. LENGTH
1	4 FT.	1.0 FT.	8 FT.
2	3 FT.	0.5 FT.	60 FT.
3	2 FT.	1.5 FT.	27 FT.
4	4 FT.	0.5 FT.	95 FT.
5	4 FT.	0.5 FT.	45 FT.
6	4 FT.	0.5 FT.	25 FT.

TABLE 4
INFORMATION FOR DITCH CONSTRUCTION

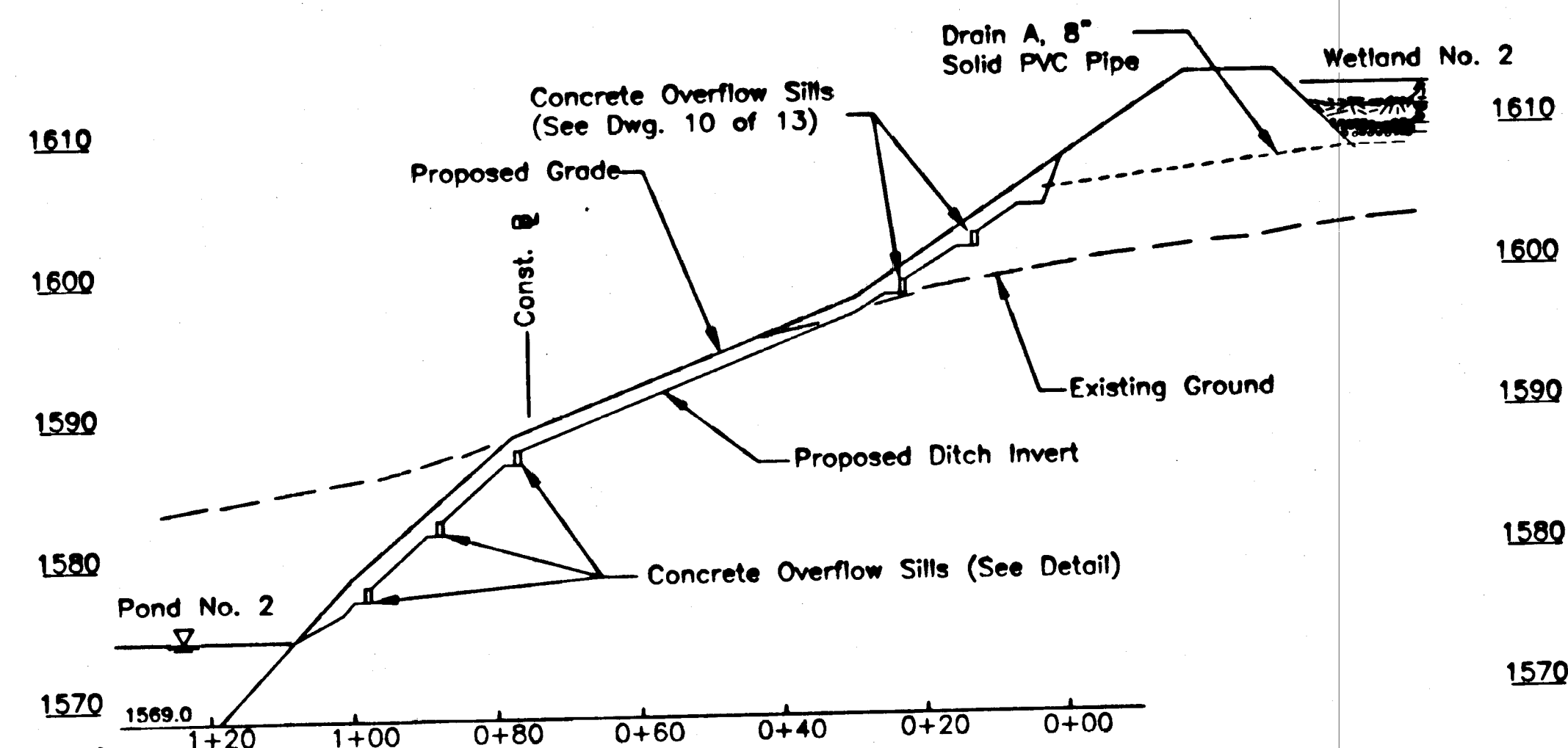
DITCH	b	d	t	m	MATERIAL	LENGTH
A	2 FT.	1.0 FT.	6 IN.	6 IN.	R-3 Riprap (Limestone) With Impervious Lining (PVC) (No Filter Fabric)	90 FT.
B	3 FT.	1.0 FT.	12 IN.	6 IN.	R-4 Riprap (Limestone) With Impervious Lining (PVC) (No Filter Fabric)	300 FT.
C Sta. 0+45 to Sta. 8+95	3 FT.	1.0 FT.	—	—	High Velocity Erosion Control Mulch Blanket	895 FT.
C Sta. 0+00 to Sta. 0+45	3 FT.	1.0 FT.	12 IN.	—	R-4 Riprap	
D	1 FT.	1.0 FT.	6 IN.	—	R-3 Riprap (Limestone)	80 FT.



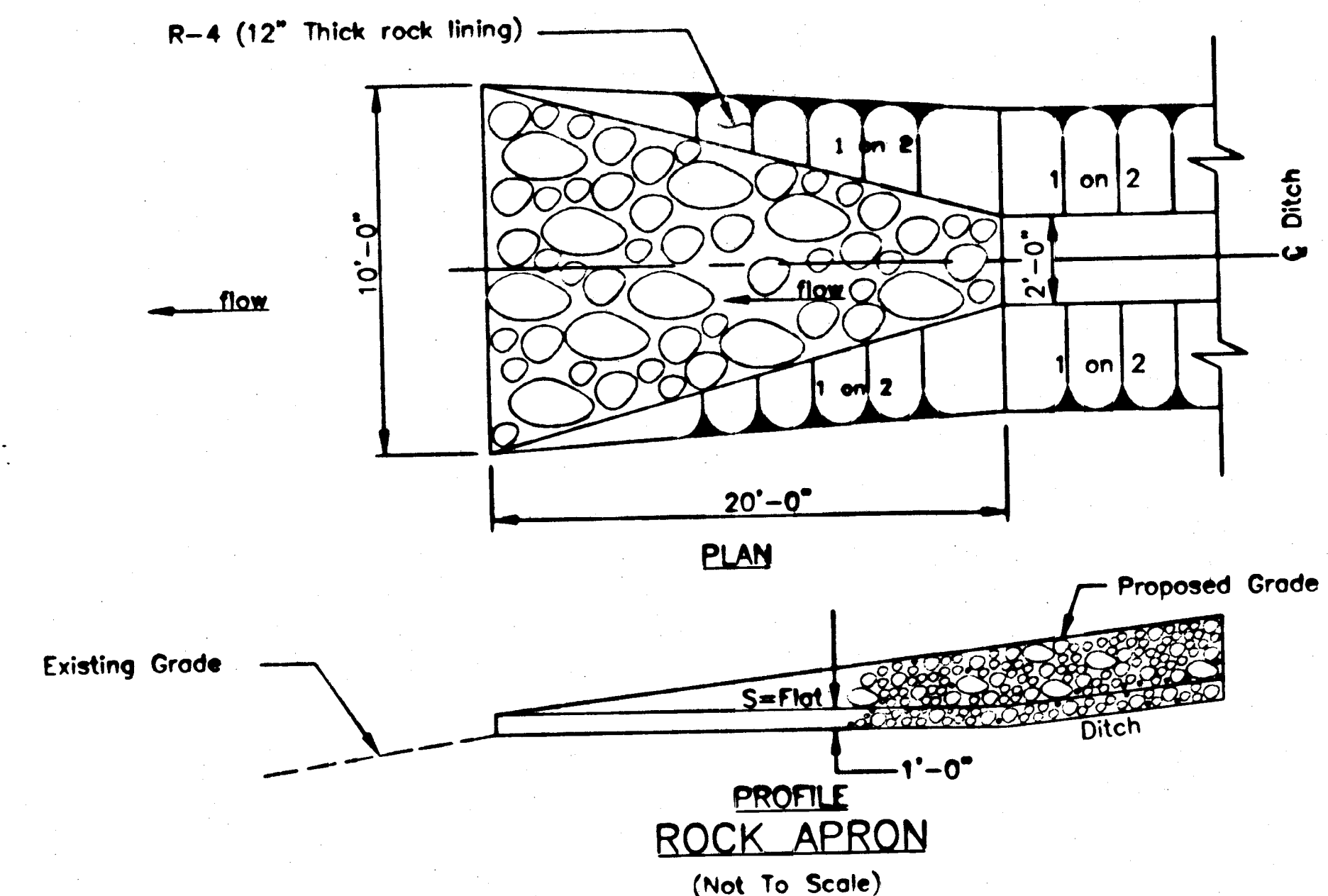
DITCH B PROFILE
 Scale: 1" = 10' Vertical
 1" = 20' Horizontal



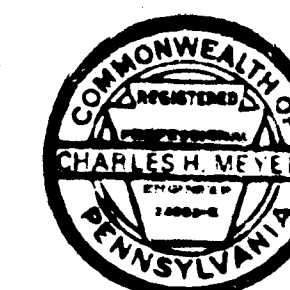
DITCH A PROFILE
 Scale: 1" = 10' Vertical
 1" = 20' Horizontal



DITCH D PROFILE
 Scale: 1" = 10' Vertical
 1" = 20' Horizontal



NO.	DATE	REVISION	APPROVED
1			
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COMMONWEALTH OF PENNSYLVANIA
 DEPARTMENT OF ENVIRONMENTAL PROTECTION

CONTRACT NO. AMD 31(6959)101.1

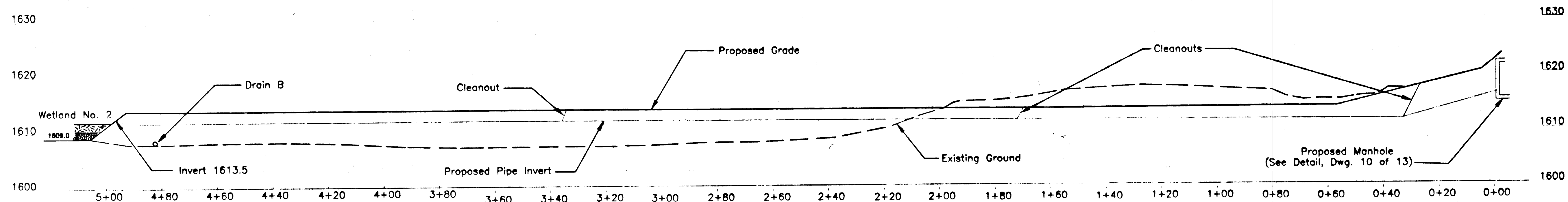
AMD ABATEMENT PROJECT
 ROCKY RIDGE SOUTH

TODD TWP. HUNTINGDON COUNTY

DITCH PROFILES AND
 DETAILS

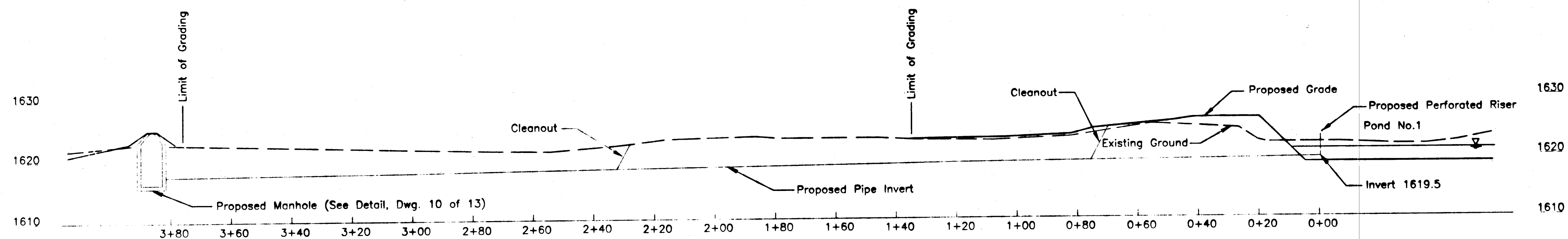
DESIGNED BY	DATE	DRAWING NO.
LEEC	May 14, 1997	
CHECKED BY	SCALE	
AS SHOWN	As Shown	

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



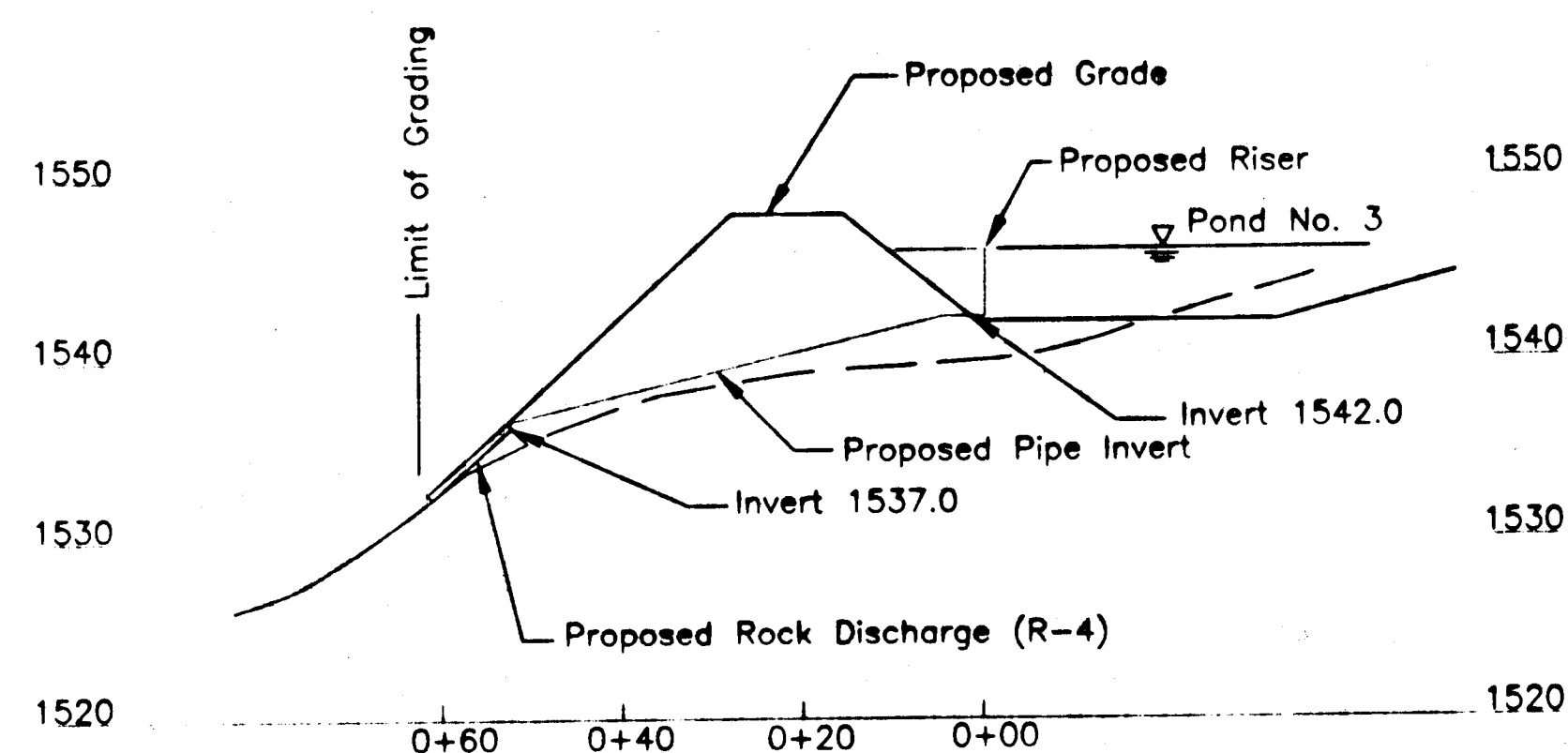
PIPE NO. 3 PROFILE

Scale: 1"=10' Vertical
1"=20' Horizontal



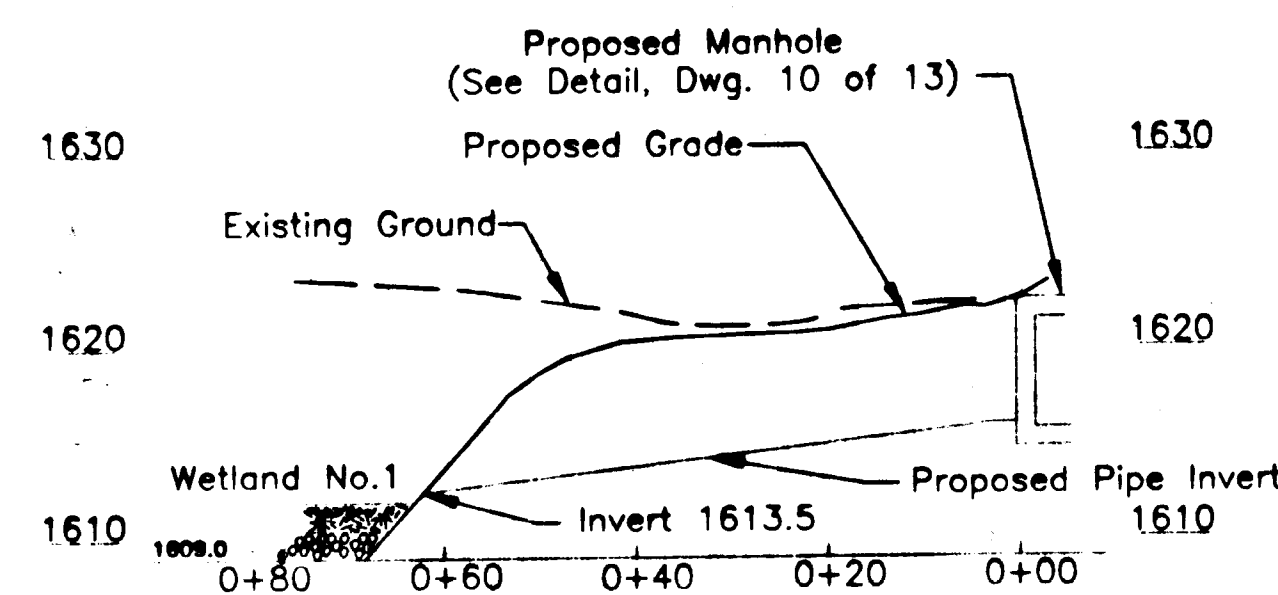
PIPE NO. 1 PROFILE

Scale: 1"=10' Vertical
1"=20' Horizontal



PIPE NO. 5 PROFILE

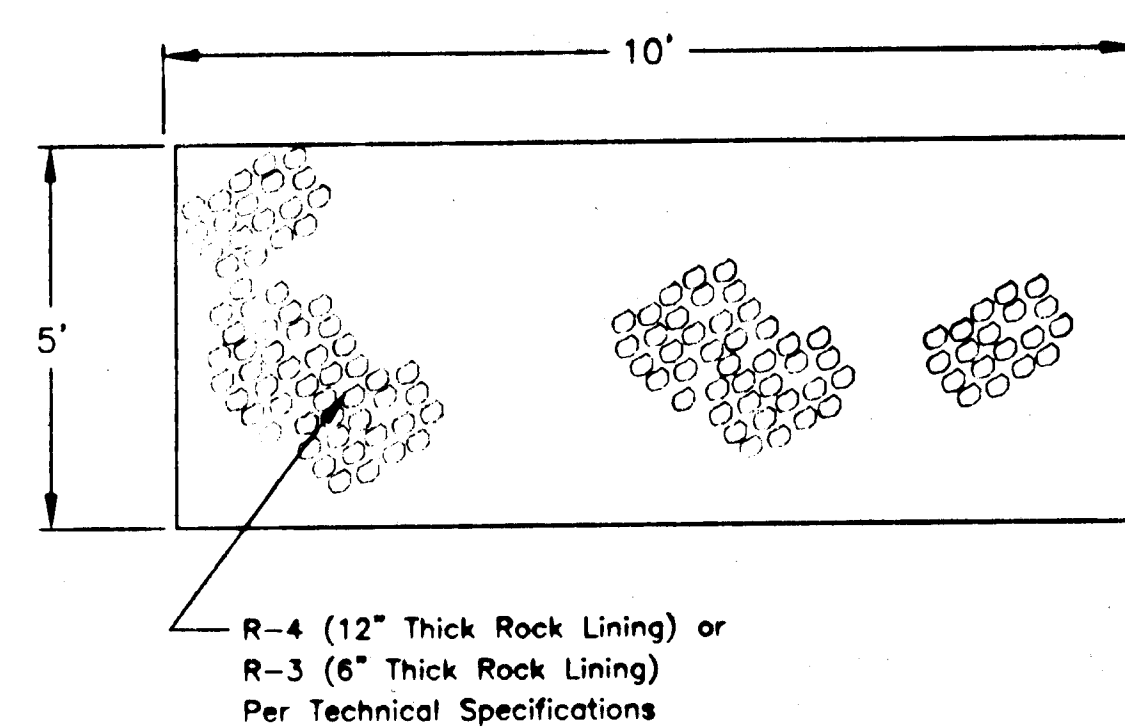
Scale: 1"=10' Vertical
1"=20' Horizontal



PIPE NO. 2 PROFILE

Scale: 1"=10' Vertical
1"=20' Horizontal

RISER DATA TABLE				
POND NO.	RISER CREST ELEV.	RISER INVERT ELEV.	PERFORATION INVERT ELEV.	SIZE/MATERIAL
1	1623.0	1619.5	1621.0	15" Dia. C.P.P. (Heavy Duty)
3	1546.0	1542.5	N.A.	24" Dia. C.P.P. (Heavy Duty)



ROCK DISCHARGE
NO SCALE

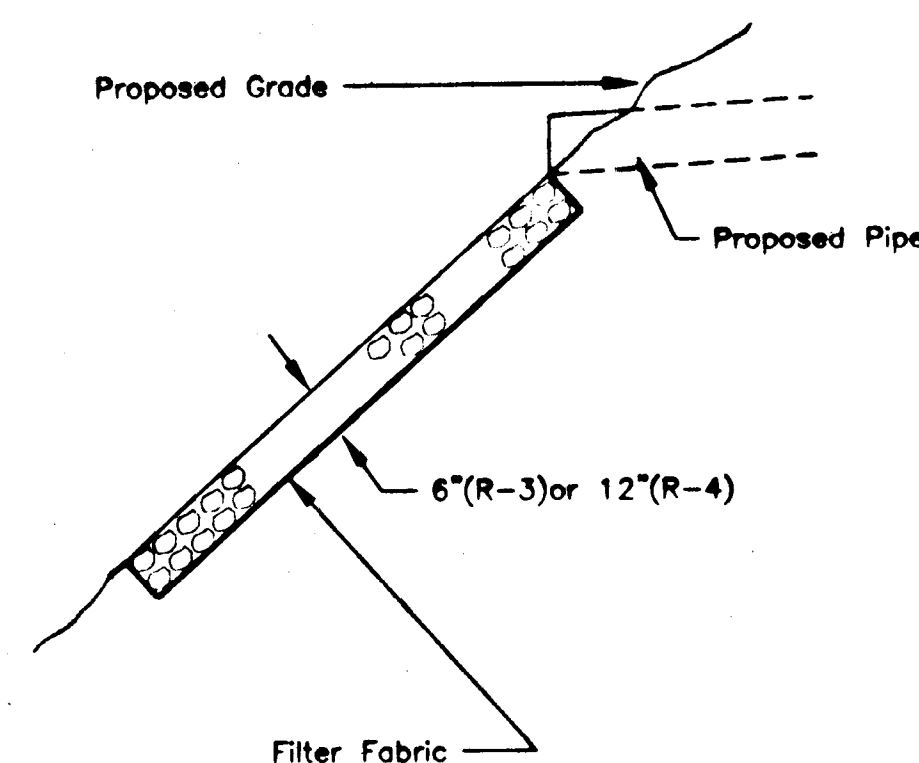
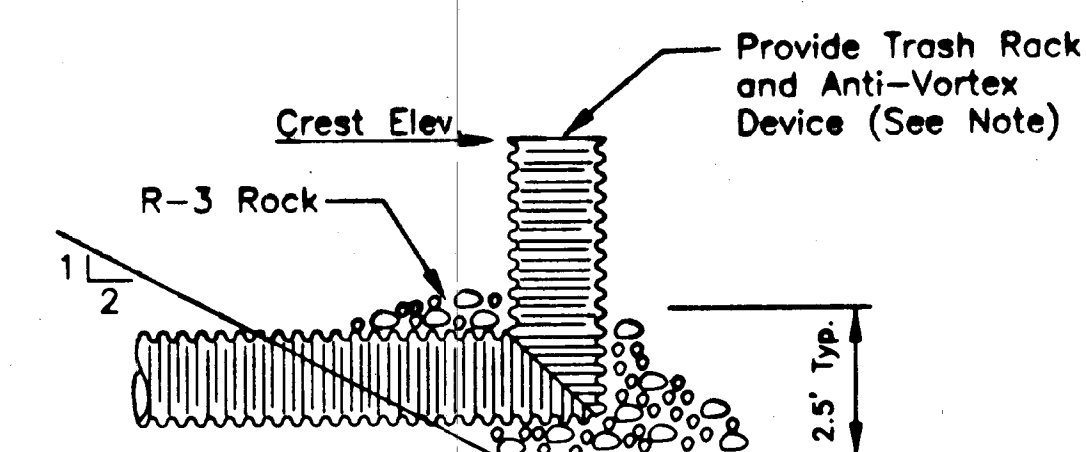


TABLE 5
PIPE INFORMATION

PIPE NO.	NOMINAL DIA.	MATERIAL	COMMENTS
1	15 in.	*C.P.P. (Smooth Interior)	Include 15" Dia. Riser (See Detail)
2	8 in.	PVC	Manhole To Wetland No. 1
3	8 in.	PVC	Manhole To Wetland No. 2
4	24 in.	*C.P.P. (Smooth Interior)	Manhole To Ditch B
5	24 in.	*C.P.P. (Smooth Interior)	Include 24" Dia. Riser (See Detail)

*Corrugated Polyethylene Pipe



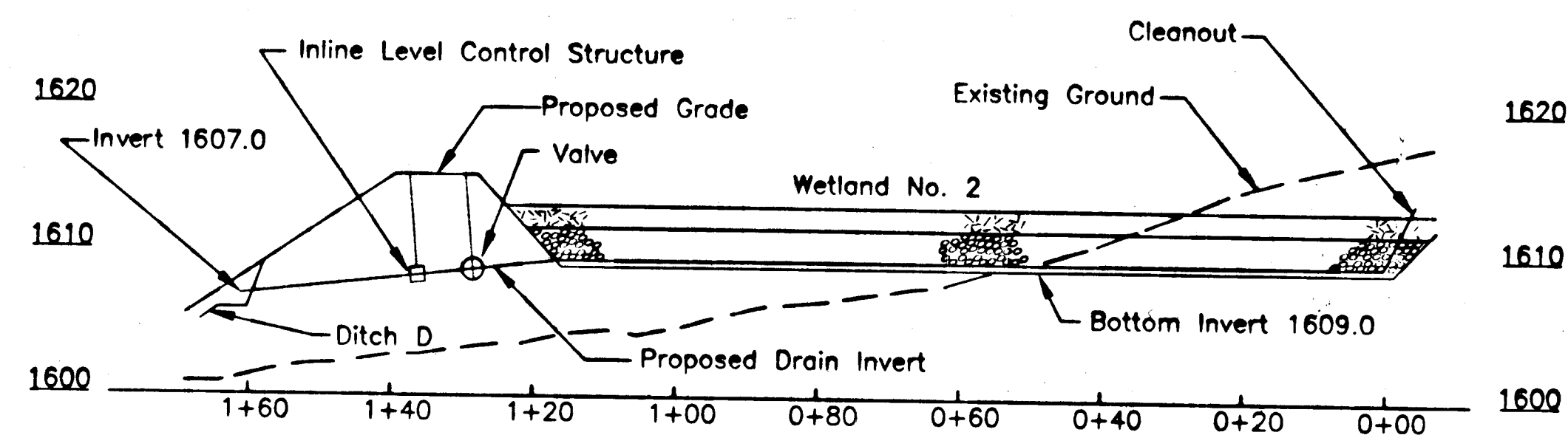
RISER DETAIL

No Scale
(See Riser Data Table For Elevations)

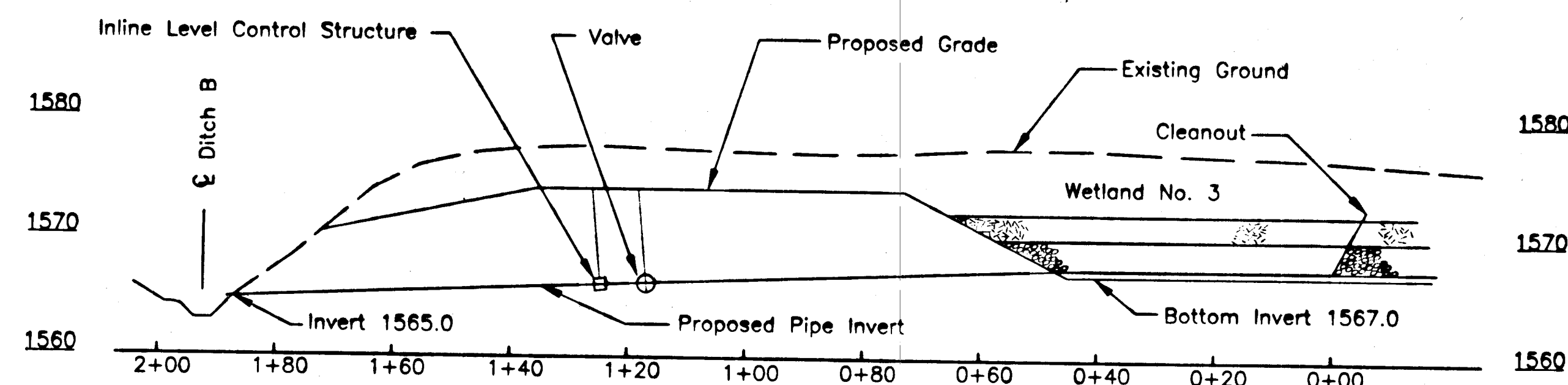
NOTE: Trash Rack and Anti-Vortex Device shall be constructed of Durable, Corrosive-Resistant Materials and shall be removable.

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

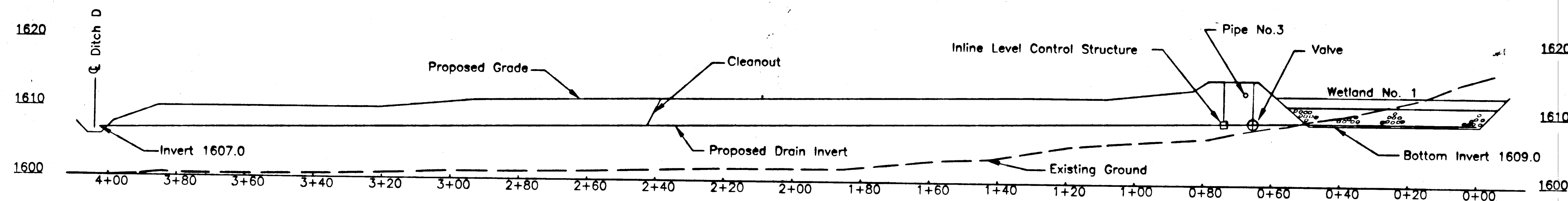
NO.	DATE	REVISION	APPR.
SUBMITTER: <i>[Signature]</i> REVIEWED: <i>[Signature]</i> APPROVED: <i>[Signature]</i> DISTRICT ENGINEER - EROBING			
 COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL PROTECTION			
CONTRACT NO. AMD 31(6959)101.1			
AMD ABATEMENT PROJECT ROCKY RIDGE SOUTH			
TODD TOWNSHIP		HUNTINGDON COUNTY	
PIPE PROFILES AND DETAILS			
DRAWN BY: LEEG CHECKED BY: <i>[Signature]</i> ACAD DWG. NO. 316959-7.000	DATE: OCT. 30, 1996 SCALE: As Shown	DRAWING NO. 7 of 13	



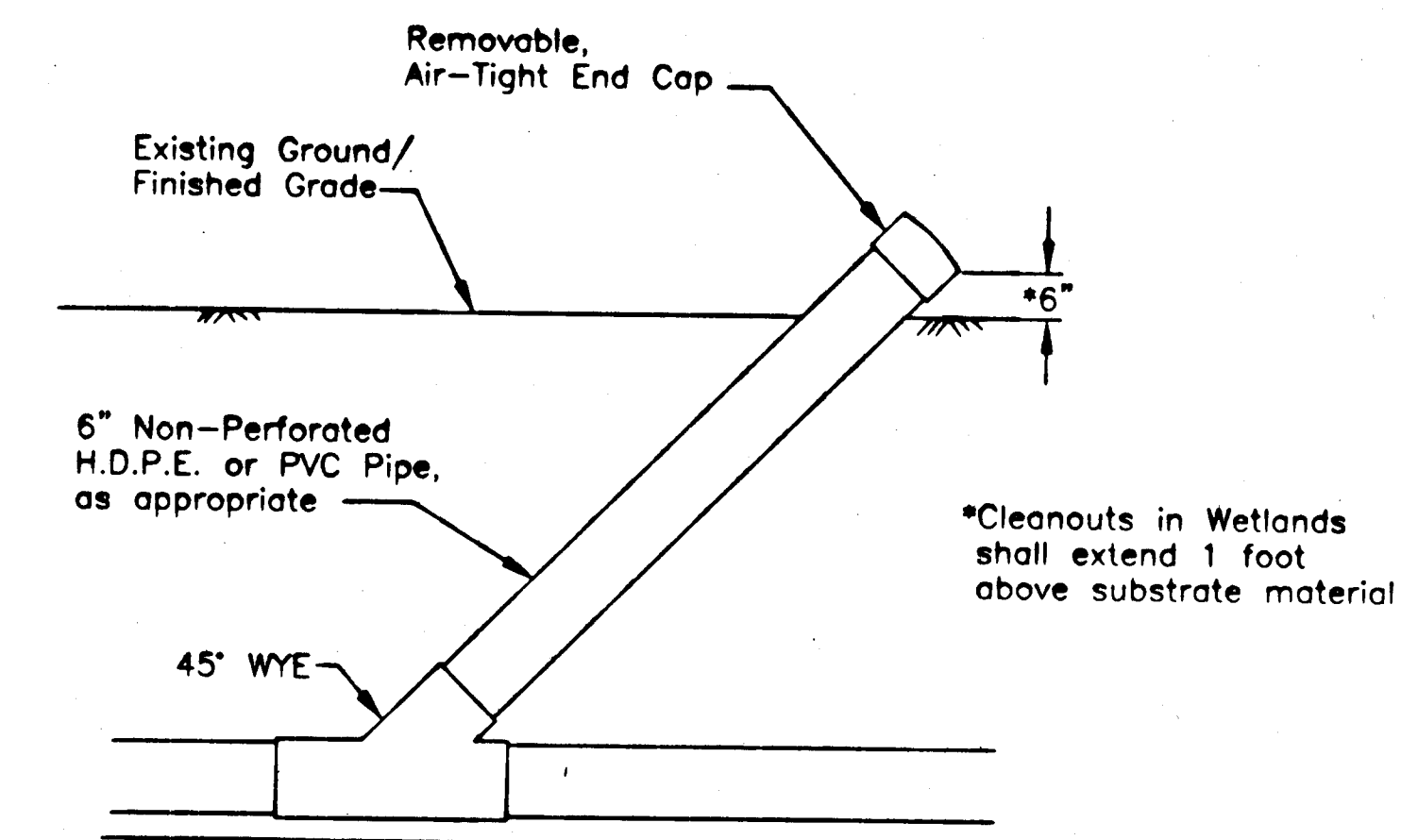
DRAIN A PIPE PROFILE
Scale: 1"=10' Vertical
1"=20' Horizontal



DRAIN C PIPE PROFILE
Scale: 1"=10' Vertical
1"=20' Horizontal



DRAIN B PIPE PROFILE
Scale: 1"=10' Vertical
1"=20' Horizontal

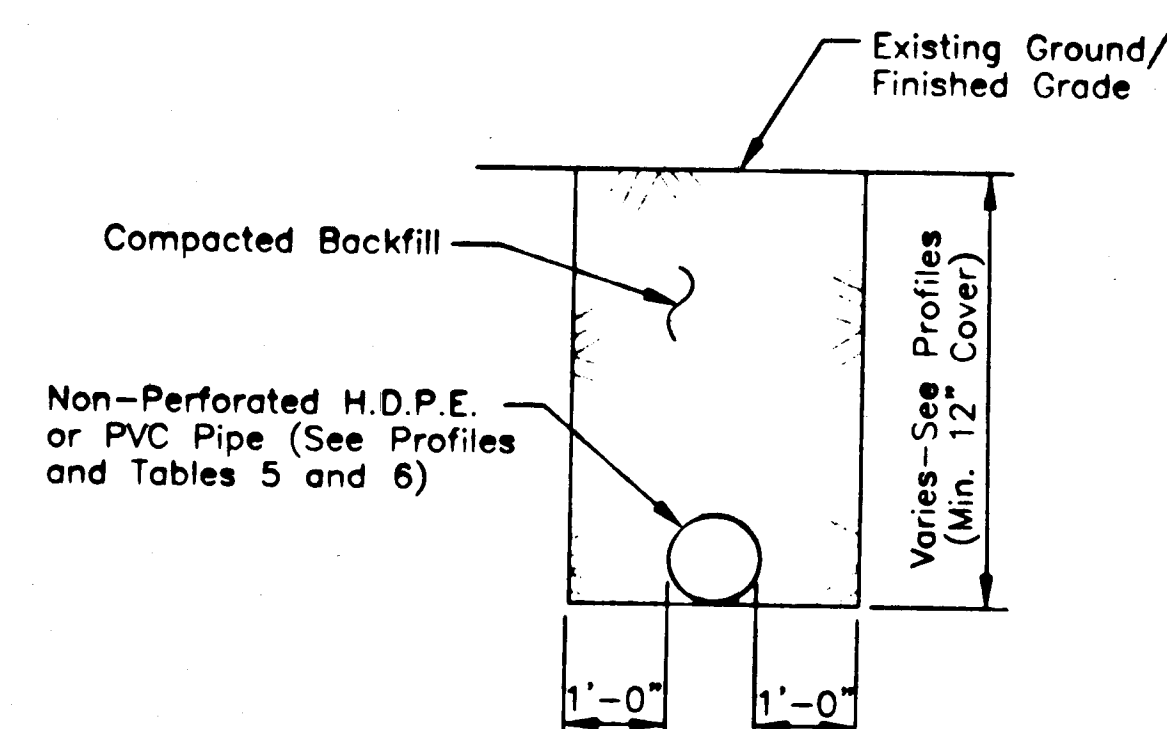


CLEANOUT DETAIL
No Scale

**TABLE 6
DRAIN PIPE INFORMATION**

DRAIN	NOMINAL DIA.	MATERIAL	LENGTH	
			PERFORATED (See Note 1)	NON-PERFORATED
A	8 in.	PVC	Sta. 0+00 to Sta. 1+15	Sta. 1+15 to Sta. 1+60
B	8 in.	PVC	Sta. 0+00 to Sta. 0+46	Sta. 0+46 to Sta. 4+02
C	8 in.	PVC	Sta. 0+00 to Sta. 0+43	Sta. 0+43 to Sta. 1+88
D	6 in.	PVC		45 ft. (See Note 2)

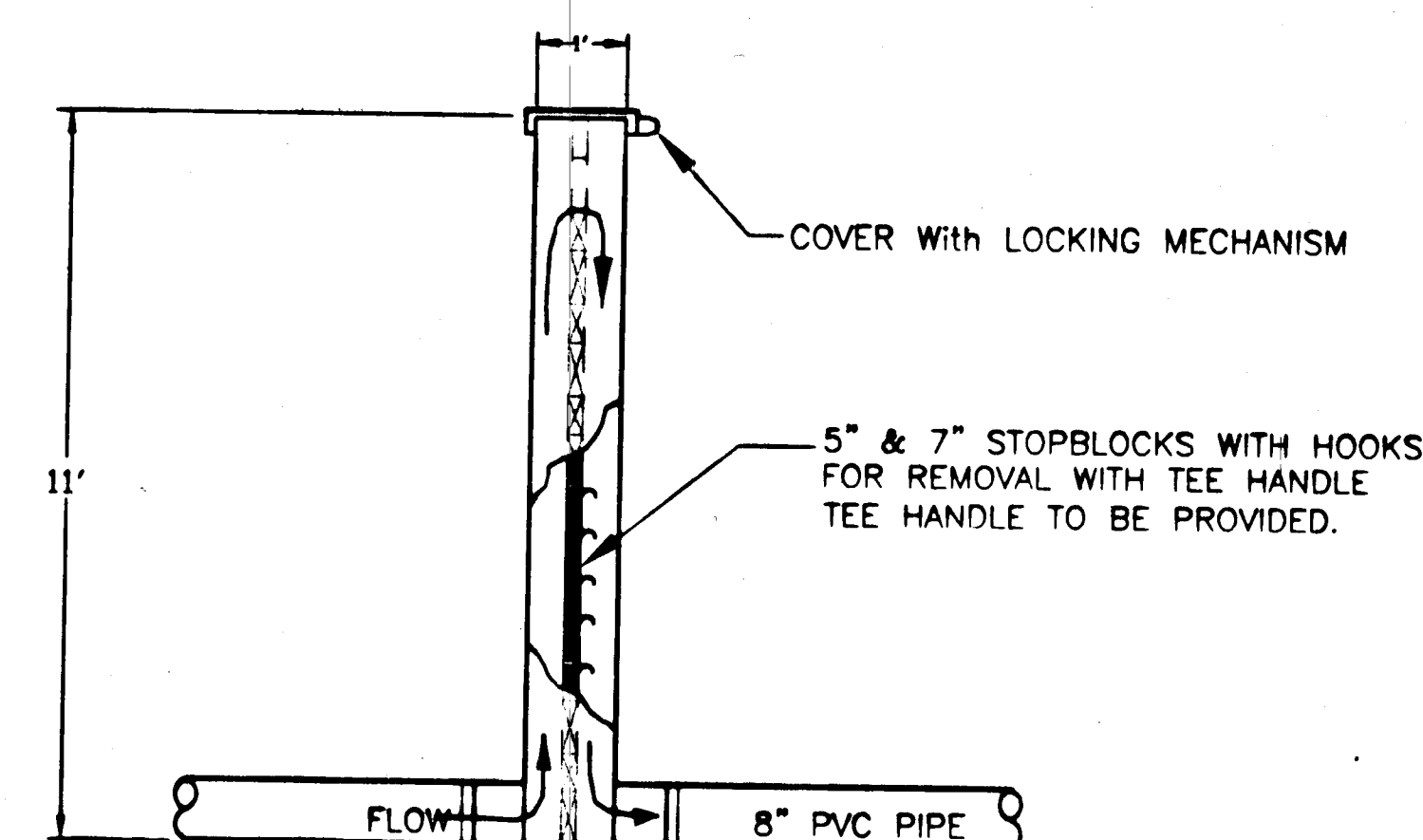
- NOTES: 1. Perforated Sections located within limestone beds in wetlands.
2. Provide drainage for manhole to Ditch B.



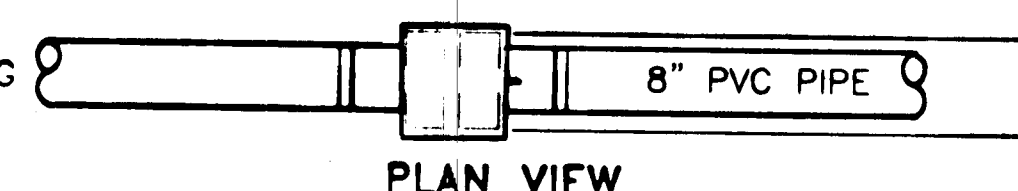
**PIPES AND DRAINS
TYPICAL SECTION**
No Scale

NOTES:

- Contractor Shall Exercise Careful Backfilling Techniques During the Installation of the In-Line Level Control Structures.
- Contractor Shall Install the Structures According to Manufacturer's Recommendations.



Agri Drain - 8" PVC INLINE STOPLOG STRUCTURE or Approved Equal.

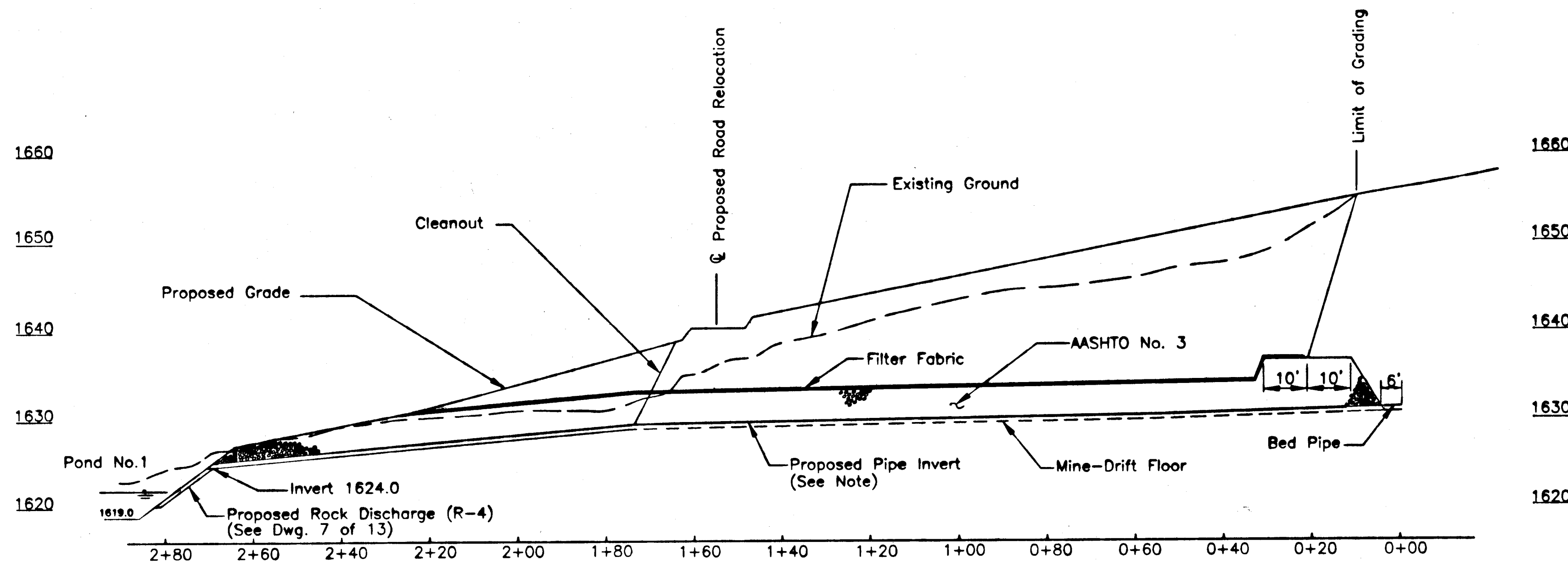


INLINE WATER LEVEL CONTROL STRUCTURE

Scale: NONE

NO.	DATE	REVISION	APPR.
SUBMITTED <i>[Signature]</i>			
REVIEWED <i>[Signature]</i>			
APPROVED <i>[Signature]</i>			
COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL PROTECTION			
CONTRACT NO. AMD 31(6959)101.1			
AMD ABATEMENT PROJECT ROCKY RIDGE SOUTH			
TODD TWP. HUNTINGDON COUNTY			
DRAIN PIPE PROFILES AND DETAILS			
DRAWN BY LEEG/WTS		DATE July 28, 1997	DRAWING NO.
CHECKED BY		SCALE	8 of 13
ACAD. DWG. NO. 310050-4.DWG		As Shown	

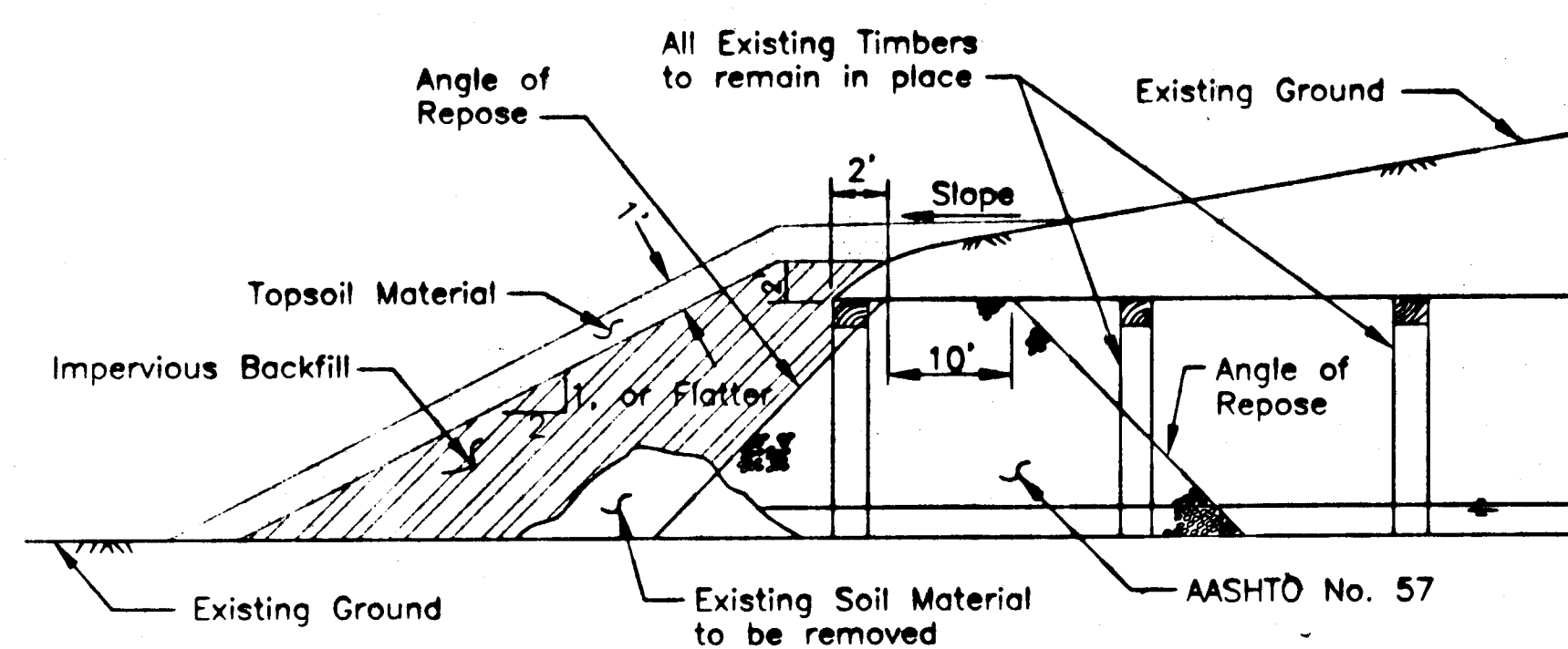
ALL DIMENSIONS AND EXISTING CONDITIONS SHALL BE CHECKED AND VERIFIED BY CONTRACTOR AT THE SITE.



MINE DRAIN PROFILE

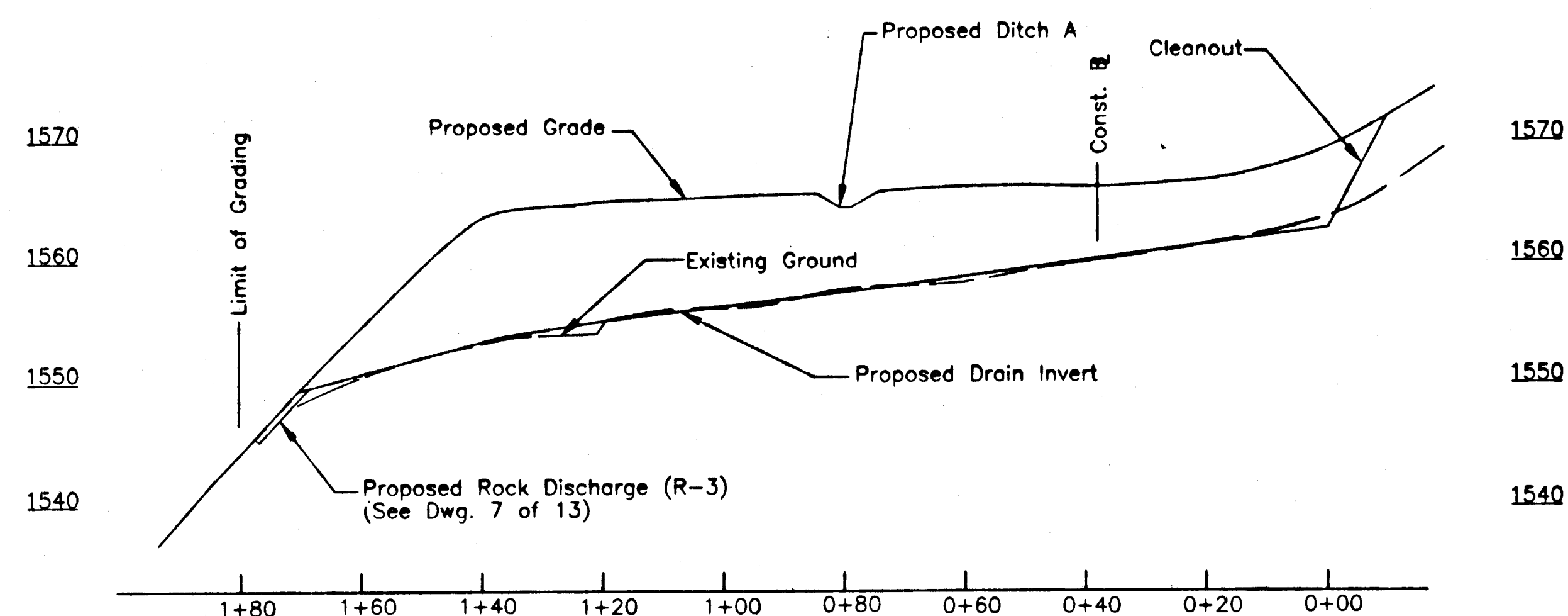
NOTE: Perforated Sta. 0+00 to Sta. 1+70
Non-Perforated Sta. 1+70 to Sta. 2+70

Scale: 1"=10' Vertical
1"=20' Horizontal



MINE SEAL
PROFILE ALONG Q OF OPENING

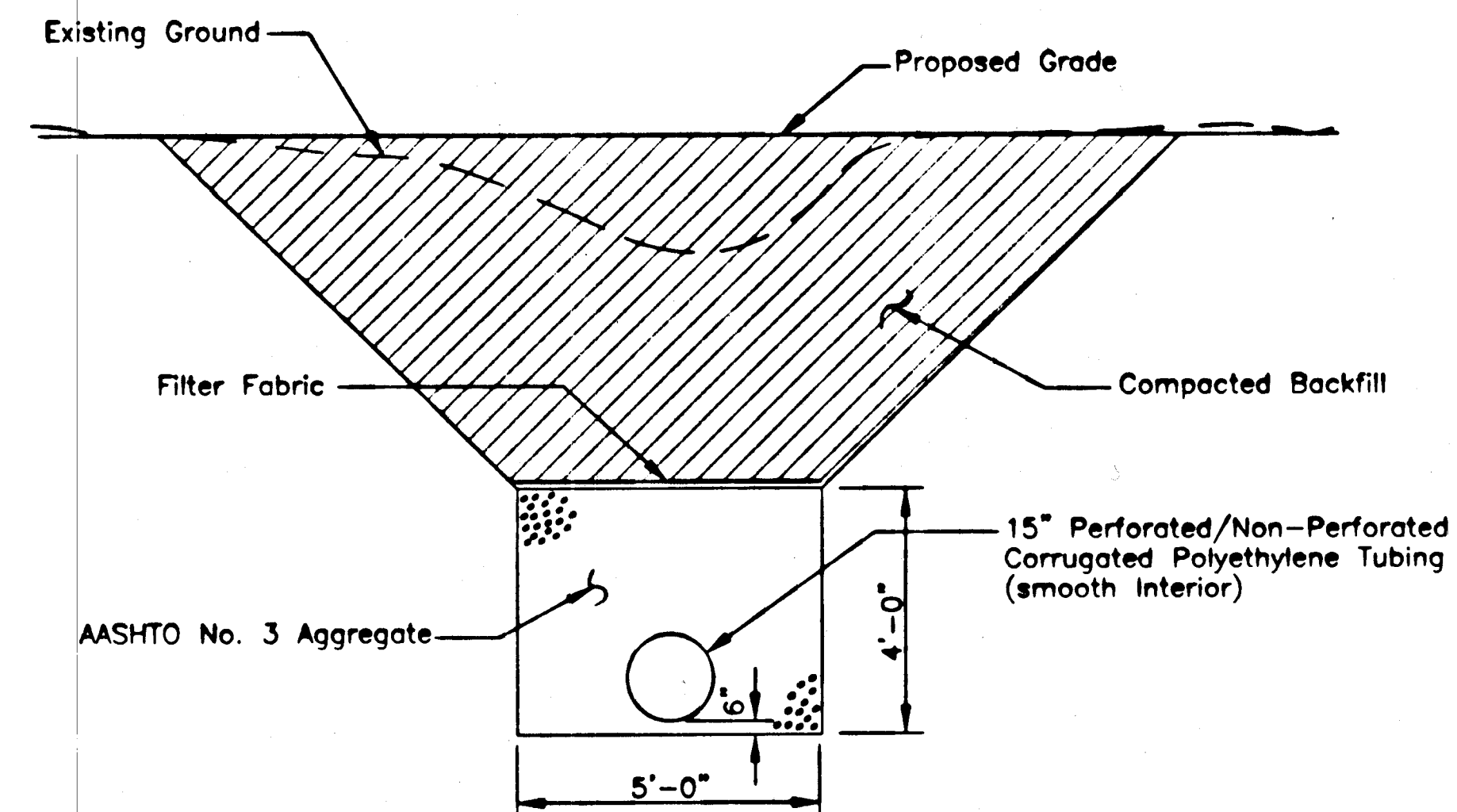
No Scale



PROPOSED SUBSURFACE DRAIN PROFILE

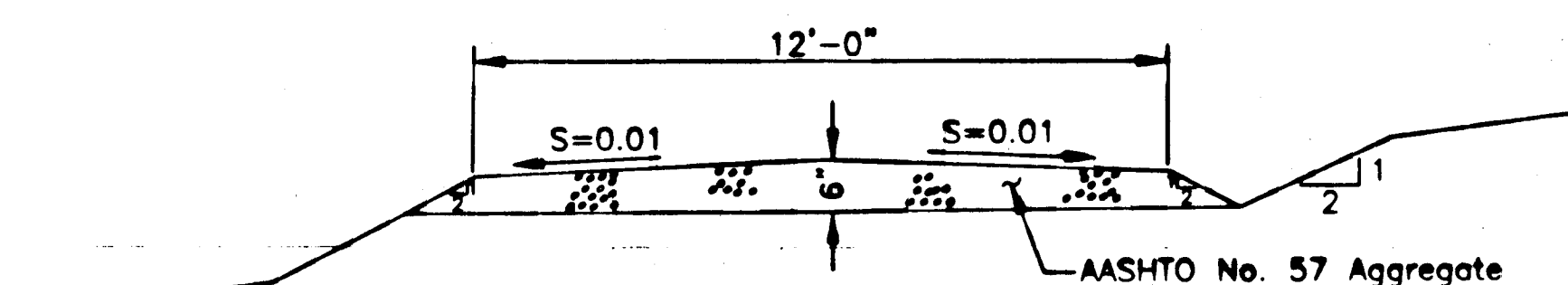
Scale: 1"=10' Vertical
1"=20' Horizontal

NOTE: Sta. 1+60 to Sta. 1+70 to be
constructed with Non-Perforated
Tubing and R-3 Riprap.



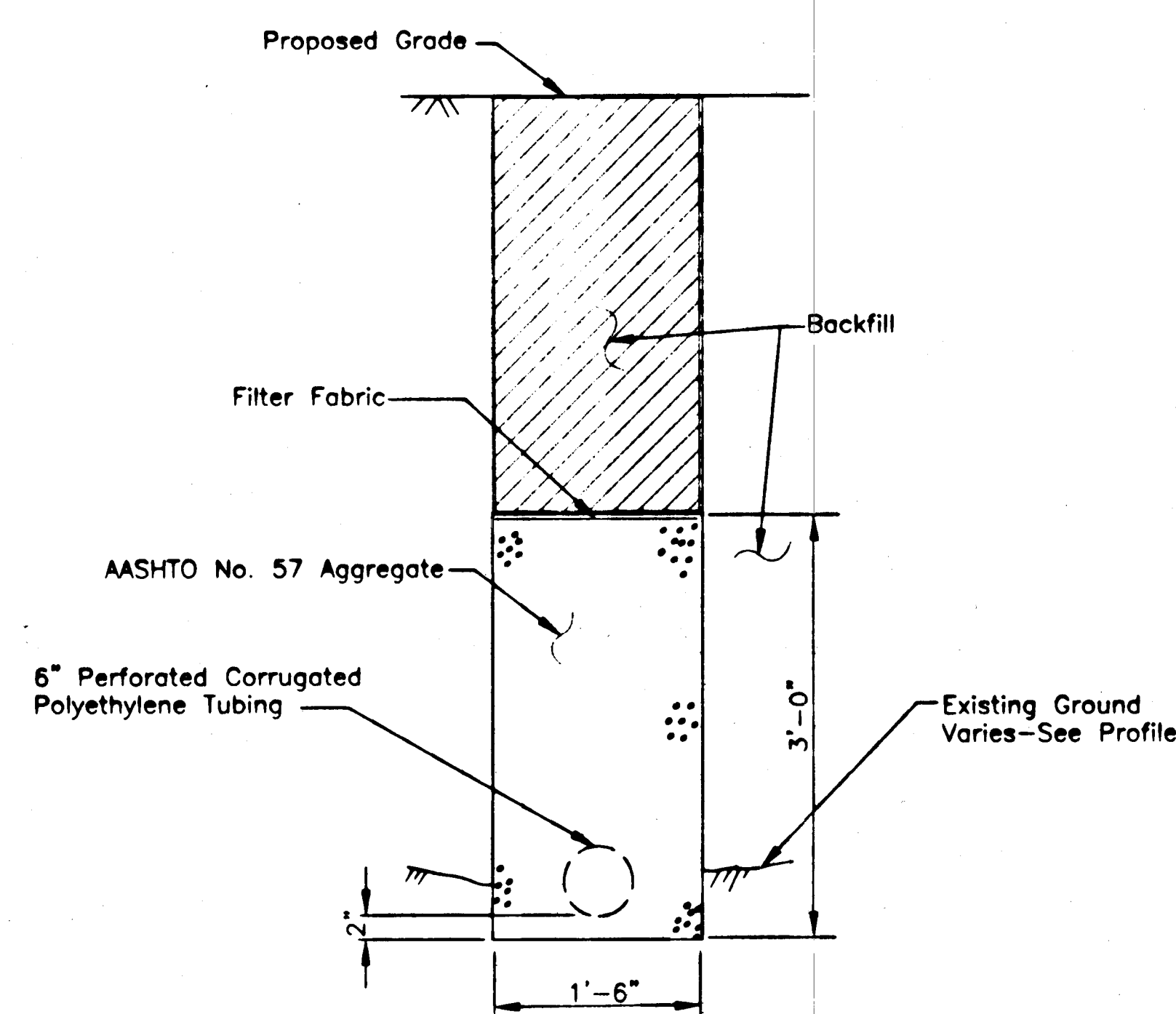
MINE DRAIN
TYPICAL SECTION

No Scale



ACCESS ROAD DETAIL
TYPICAL SECTION

No Scale

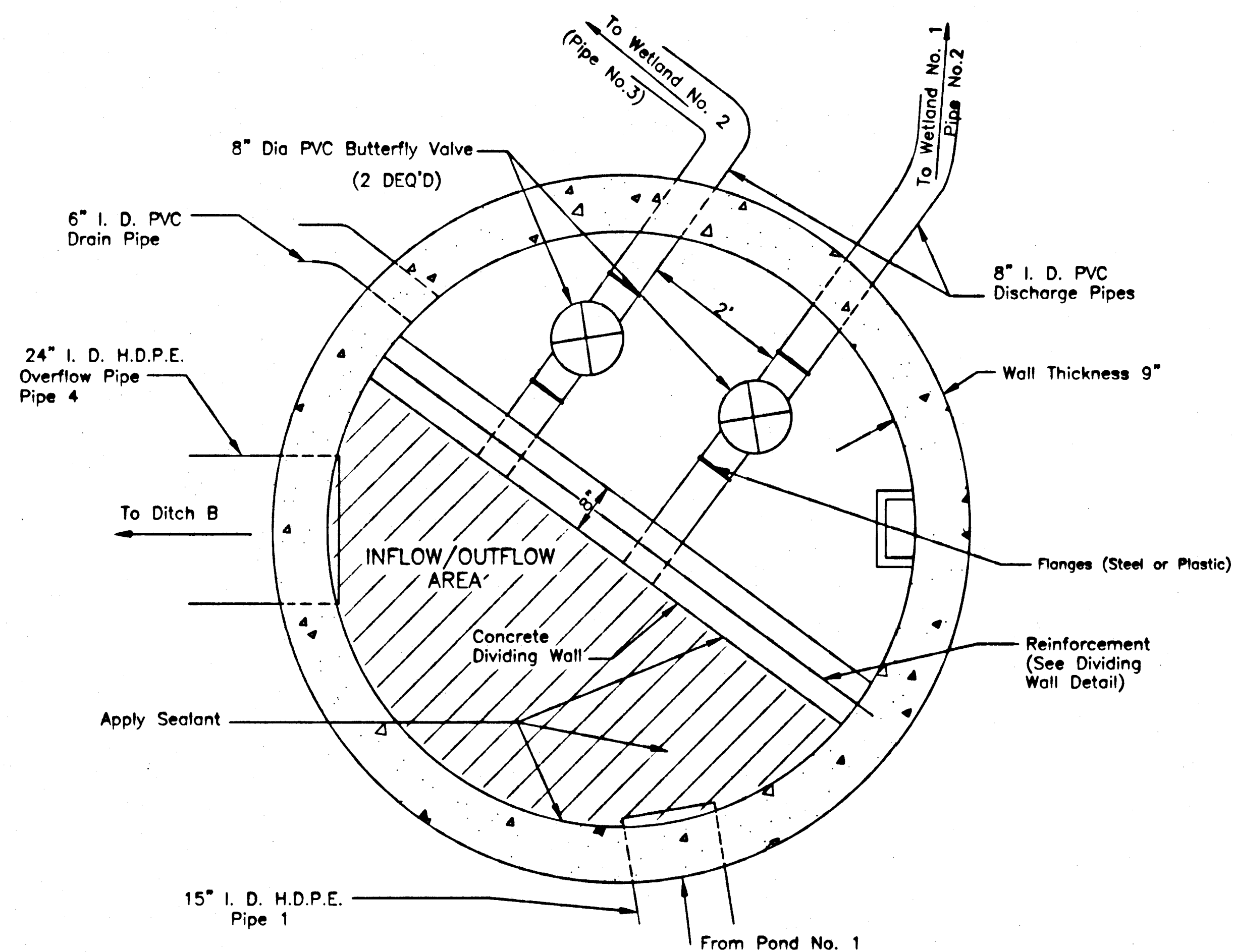


SUBSURFACE DRAIN
TYPICAL SECTION

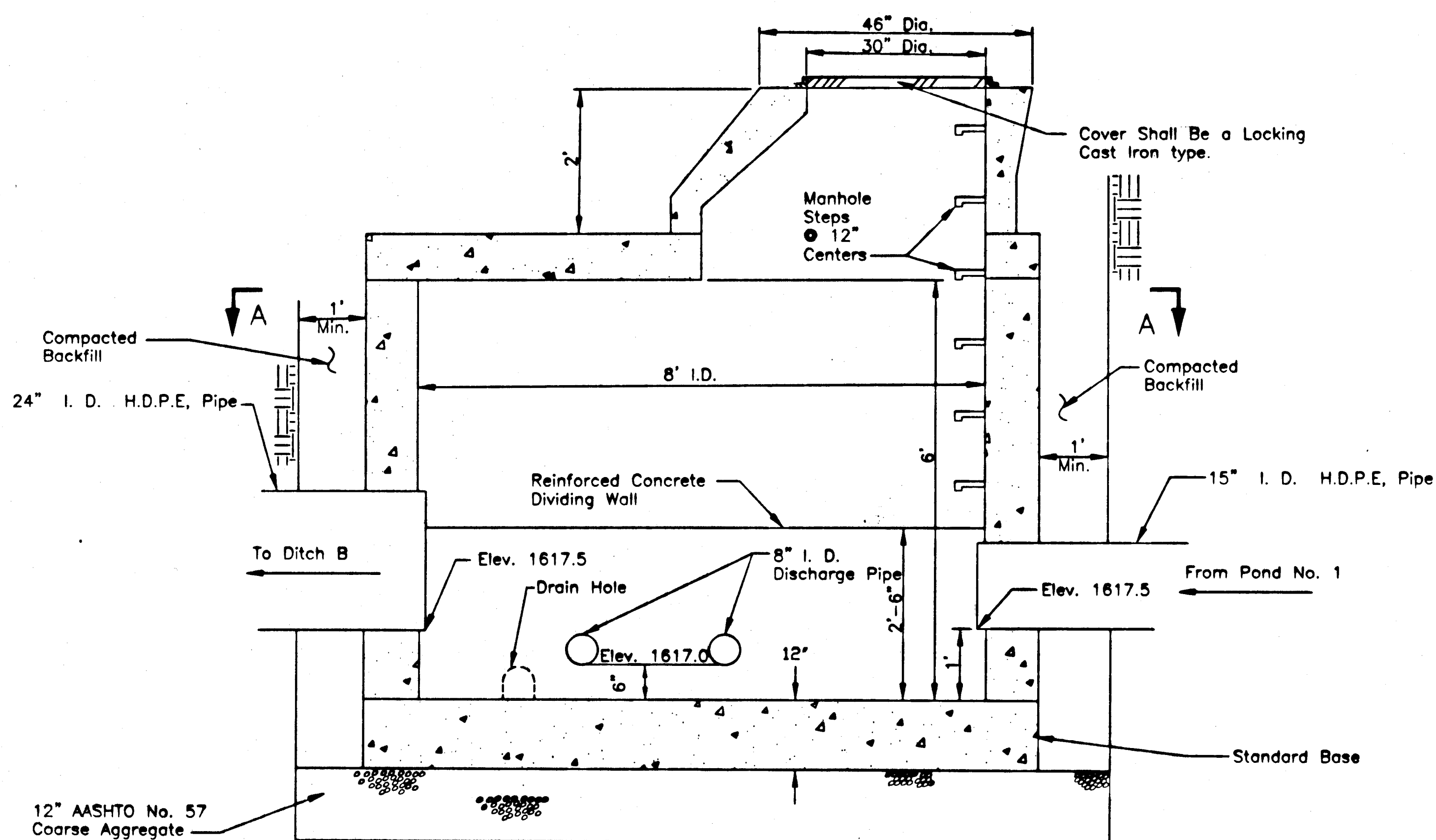
No Scale

NO.	DATE	REVISION	APPR.
DESIGNED BY: <i>[Signature]</i> CHECKED BY: <i>[Signature]</i> APPROVED BY: <i>[Signature]</i> DISTRICT ENGINEER - EPHRATA			
COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL PROTECTION CONTRACT NO. AMD 31(6959)101.1 AMD ABATEMENT PROJECT ROCKY RIDGE SOUTH TODD TWP. HUNTINGDON COUNTY MINE DRAIN, MINE SEAL SUBSURFACE DRAIN PROFILES AND DETAILS			
DRAWN BY: LEEG/WTS CHECKED BY: ACAD DATE: May 16, 1997 SCALE: As Shown		DRAWING NO.: 9 of 13	

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

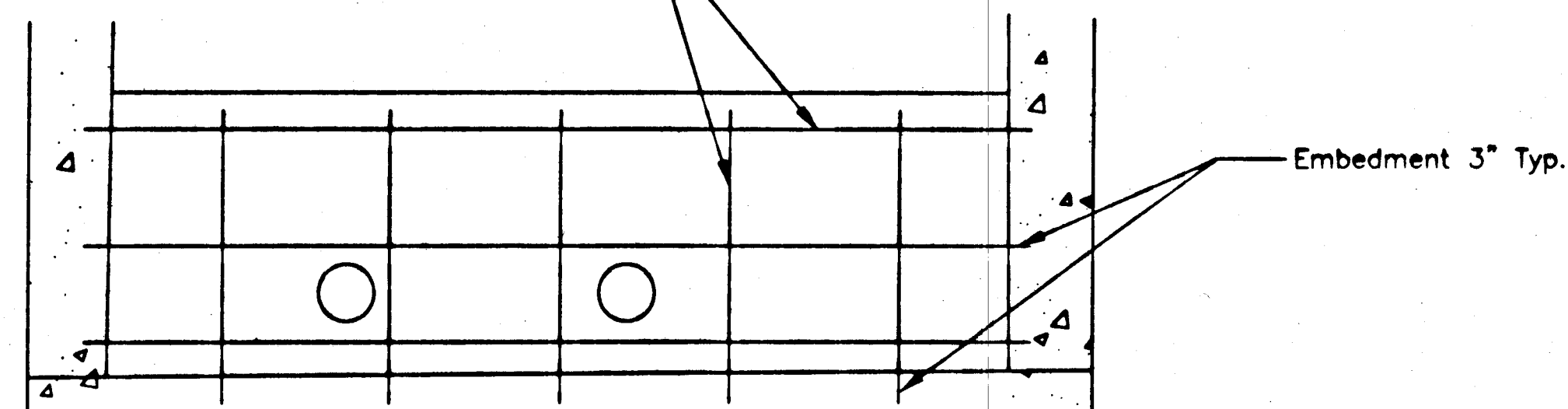


SECTION A A
No Scale

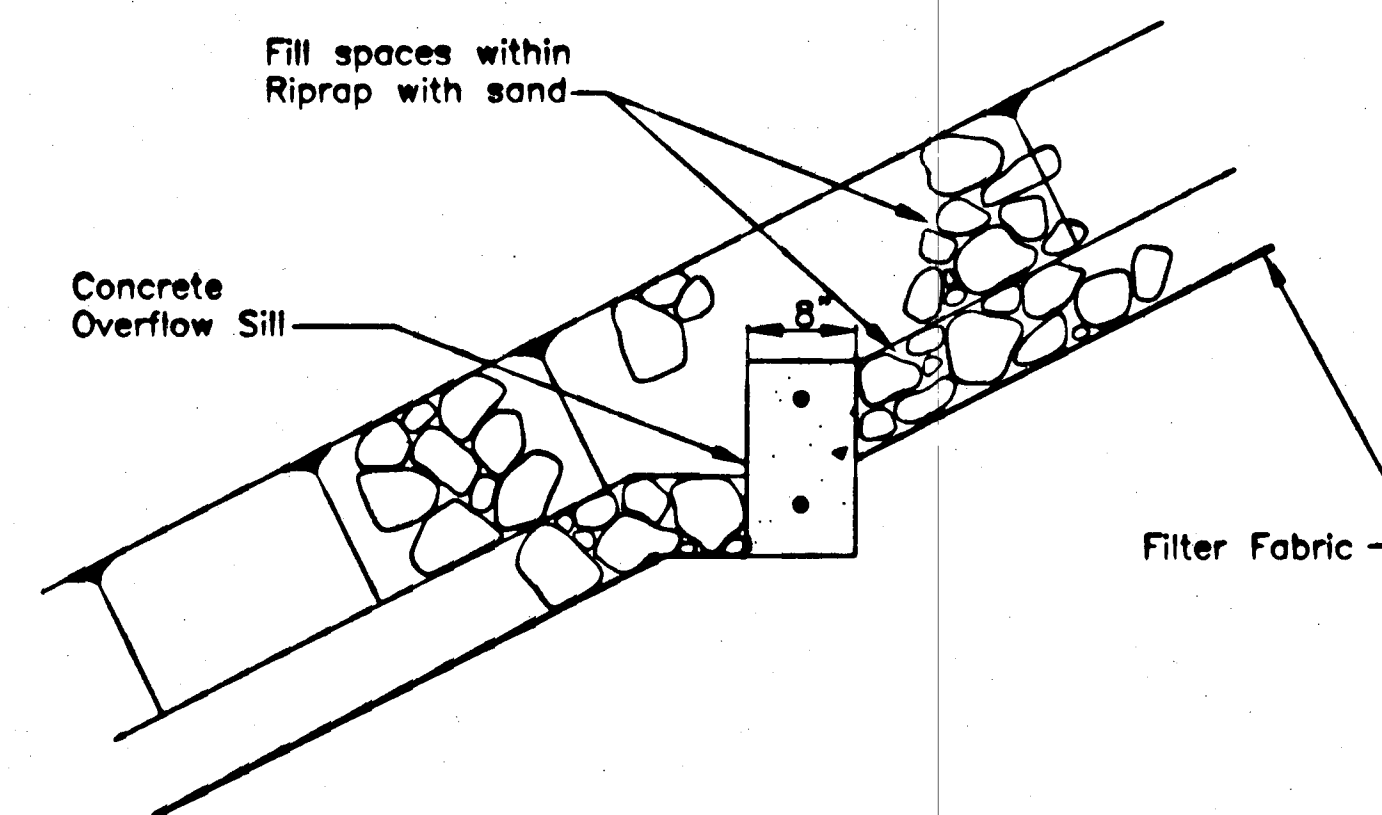


DETAIL 8' I. D. CONCRETE MANHOLE
No Scale

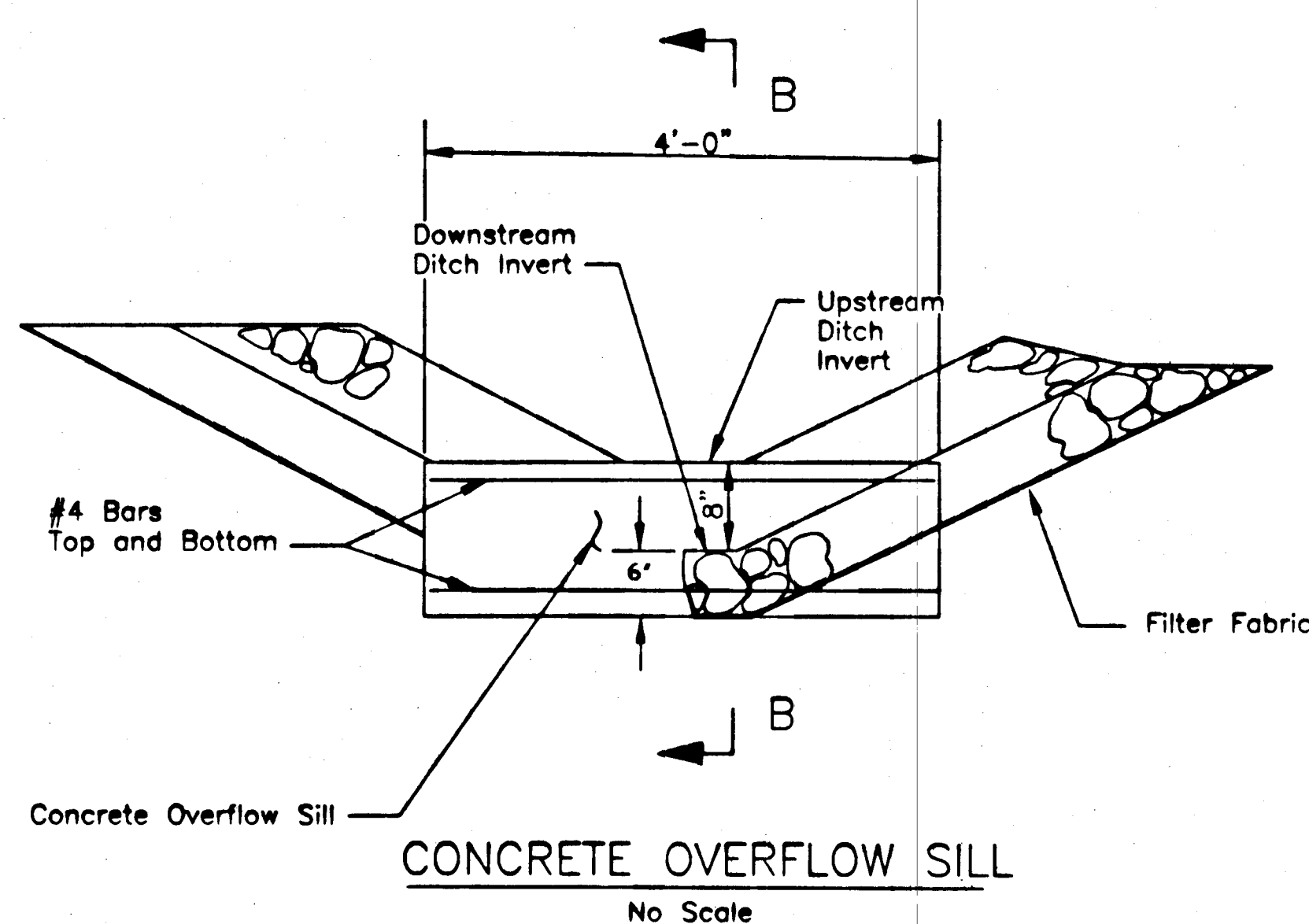
#4 Grade 60 Reinforcement Typ. (See Notes 2)



CONCRETE DIVIDING WALL
REINFORCEMENT DETAIL
No Scale



CONCRETE OVERFLOW SILL SECTION B B
No Scale



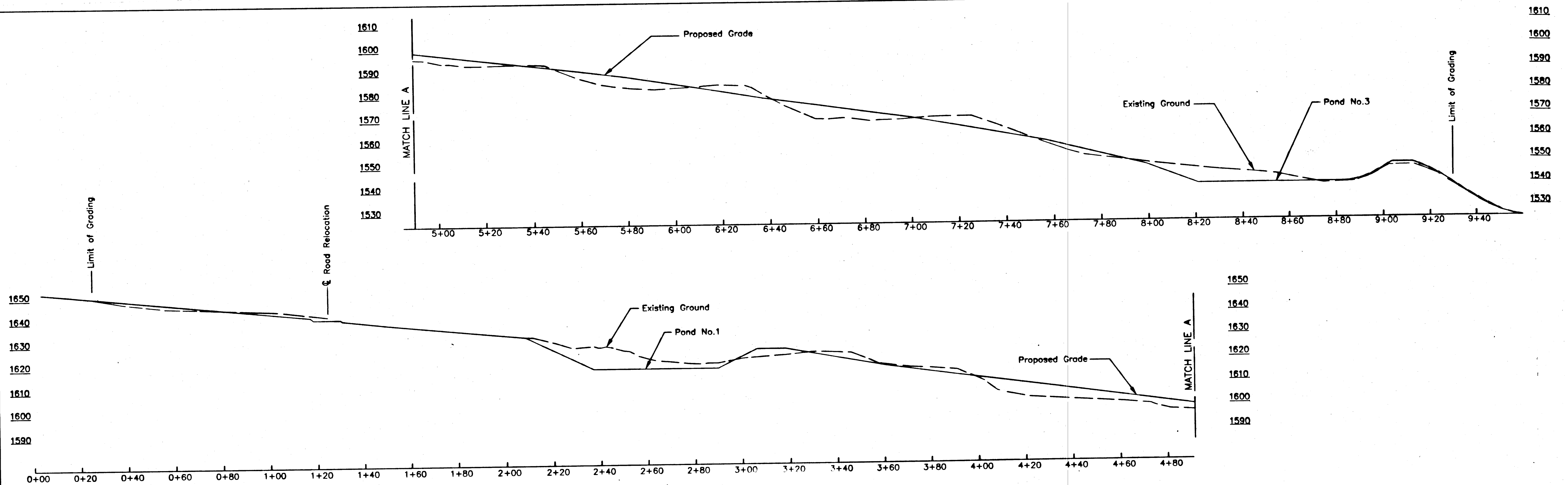
CONCRETE OVERFLOW SILL
No Scale

NOTES:

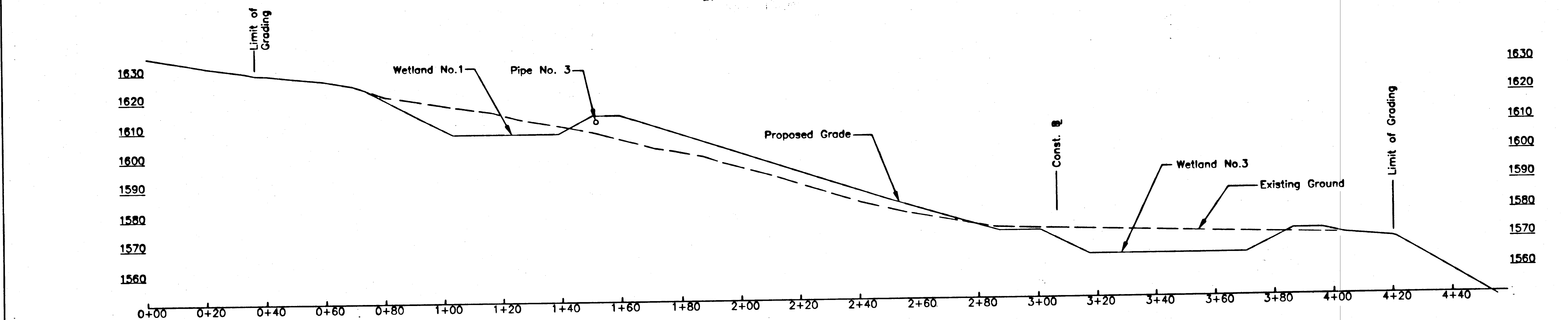
- ① Concrete shall be in accordance with PADOT Pub. 408 Section 704, Class A-A.
- ② Any splices in reinforcement shall have a minimum overlap of 12\"/>

NO.	DATE	REVISION	APPR.
SUBMITTED: <i>[Signature]</i> REVIEWED: <i>[Signature]</i> APPROVED: <i>[Signature]</i> DESIGNER: <i>[Signature]</i> DISTRICT ENGINEER - ENCEBURG			
COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL PROTECTION CONTRACT NO. AMD 31(6959)101.1 AMD ABATEMENT PROJECT ROCKY RIDGE SOUTH TODD TWP. HUNTINGDON COUNTY MANHOLE AND OVERFLOW SILL DETAILS			
DRAWN BY: LEED CHECKED BY: ACAD. DWG. NO. 318959-10.DWG	DATE: July 28, 1997 SCALE: As Shown	DRAWING NO. 10 of 13	

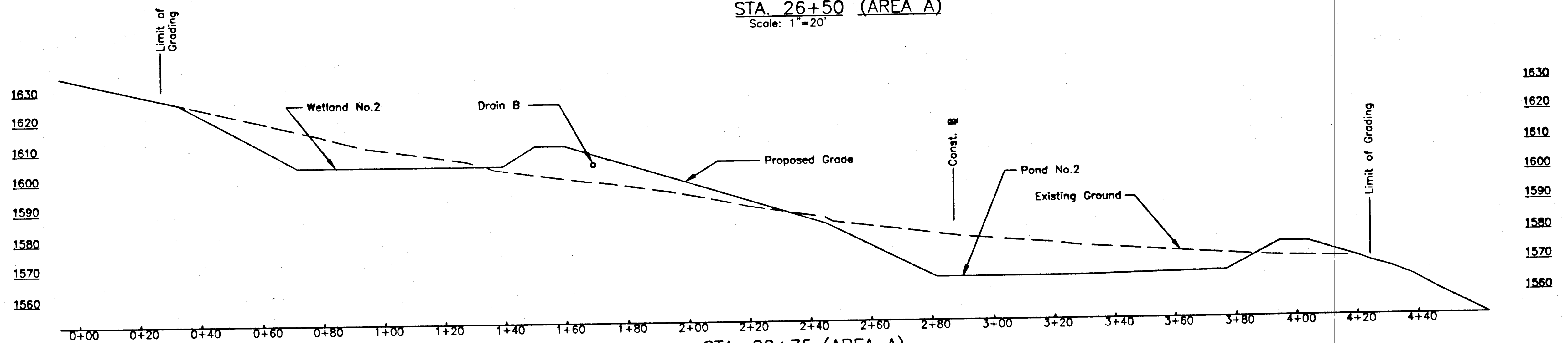
ALL DIMENSIONS AND EXISTING CONDITIONS SHALL BE CHECKED AND VERIFIED BY CONTRACTOR AT THE SITE.



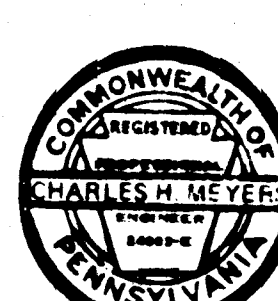
SECTION A-A



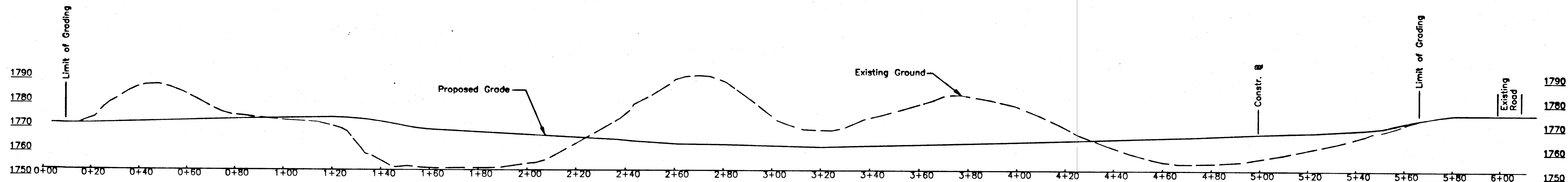
STA. 26+50 (AREA A)
Scale: 1"=20'



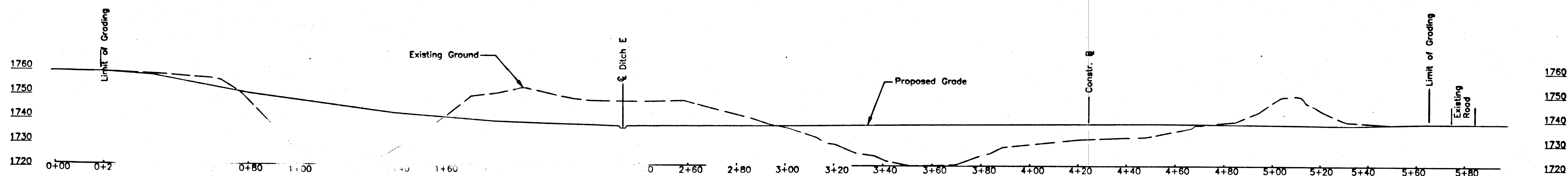
STA. 22+75 (AREA A)
Scale: 1"=20'

NO.	DATE	REVISION	APPR.
DESIGNED: <i>[Signature]</i> CHECKED: <i>[Signature]</i> APPROVED: <i>[Signature]</i> DISTRICT ENGINEER - ENGINEERING			
			
COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL PROTECTION			
CONTRACT NO. AMD 31(6959)101.1			
AMD ABATEMENT PROJECT ROCKY RIDGE SOUTH			
TODD TWP. HUNTINGDON COUNTY			
CROSS SECTIONS			
DRAWN BY: LEEC CHECKED BY: ACAD. DES. NO.: 340000-11.000	DATE: July 29, 1997 SCALE: As Shown	SHEET NO.: 11 OF 13	

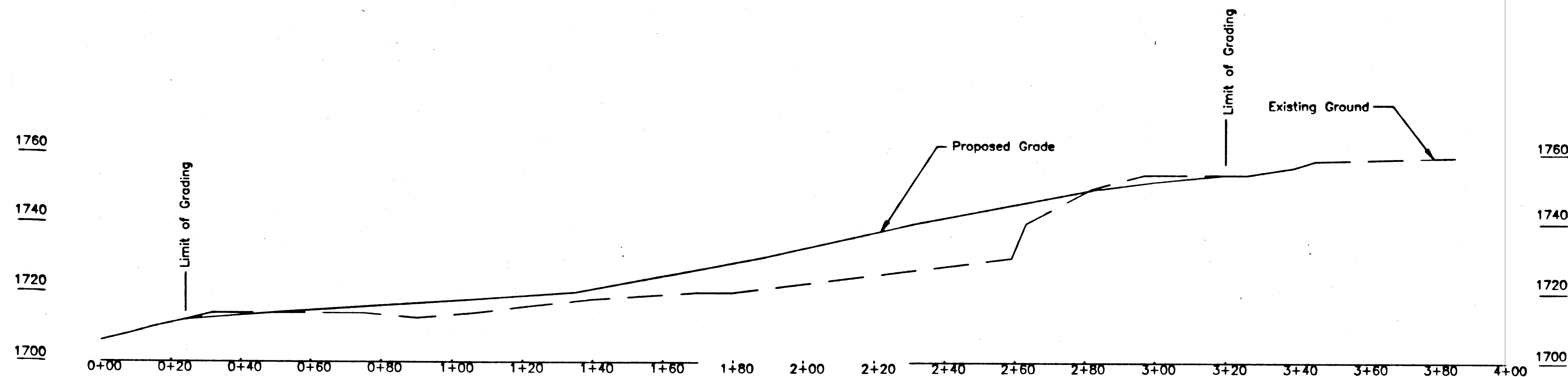
ALL DIMENSIONS AND EXISTING
CONDITIONS SHALL BE CHECKED
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AT THE SITE.



STA. 56+20 (AREA B)
Scale: 1"=20'



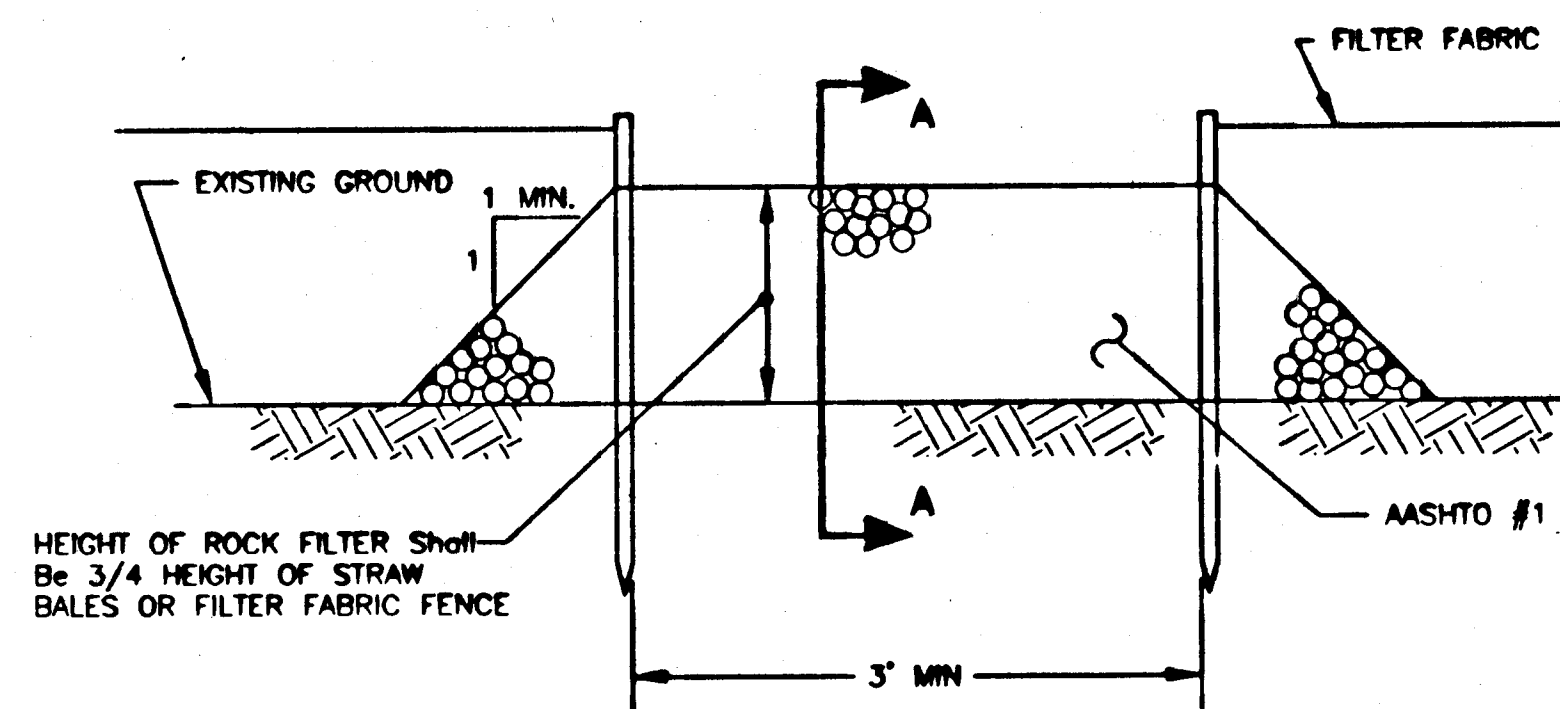
STA. 48+40 (AREA B)
Scale: 1"=20'



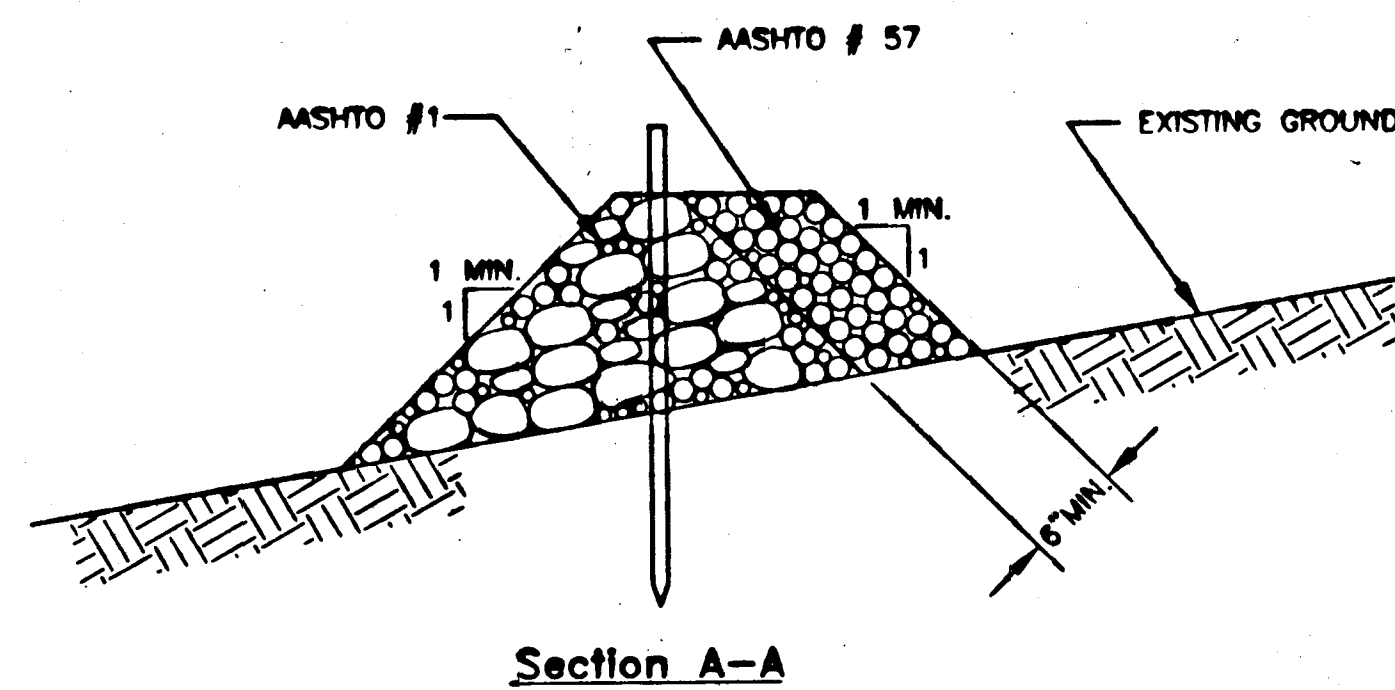
SECTION C-C (AREA B)
Scale: 1"=20'

NO.	DATE	REVISION	APPR.
1	7/28/97		
 DESIGN SECTION CHIEF - ENGINEER			
 DISTRICT ENGINEER - ENGINEERING			
 COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL PROTECTION			
CONTRACT NO. AMD 31(6959)101.1			
AMD ABATEMENT PROJECT ROCKY RIDGE SOUTH			
TODD TWP. HUNTINGDON COUNTY			
CROSS SECTIONS			
DRAWN BY LEEC CHECKED BY AND ONE IN.		DATE July 28, 1997 SCALE As Shown	SHEET NO. 12 of 13

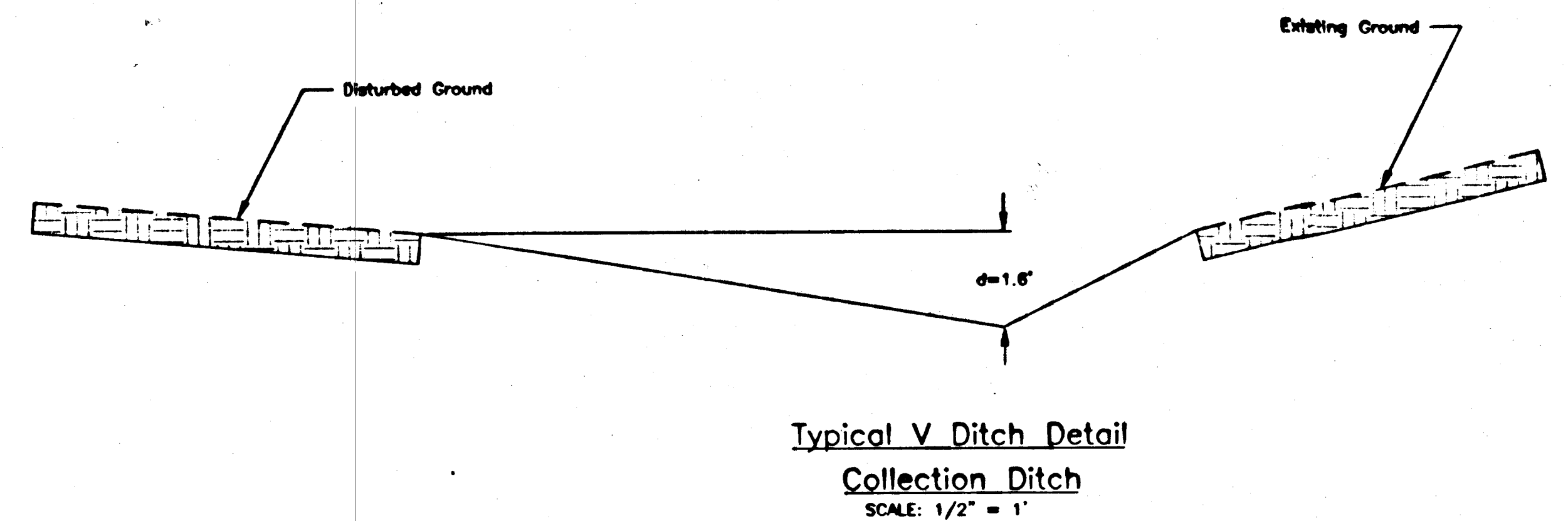
ALL DIMENSIONS AND EXISTING
CONDITIONS SHALL BE CHECKED
AND VERIFIED BY CONTRACTOR
AT THE SITE.



Rock Filter Detail
SCALE: 1" = 1'-0"



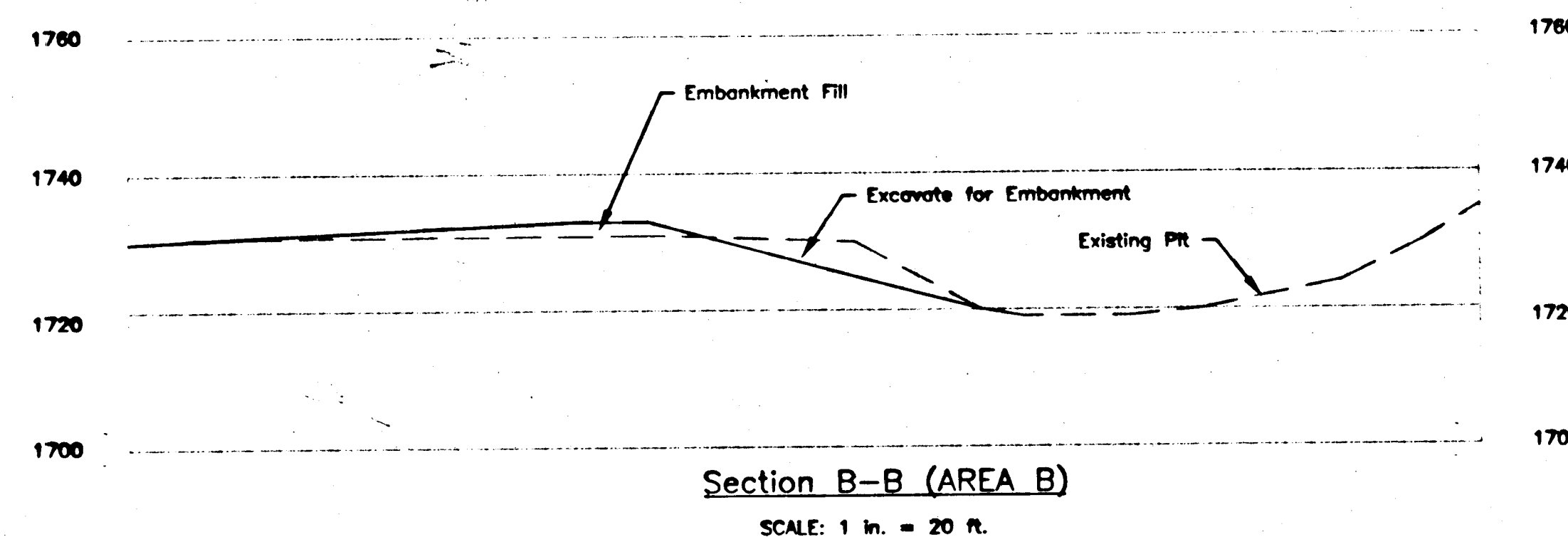
Section A-A



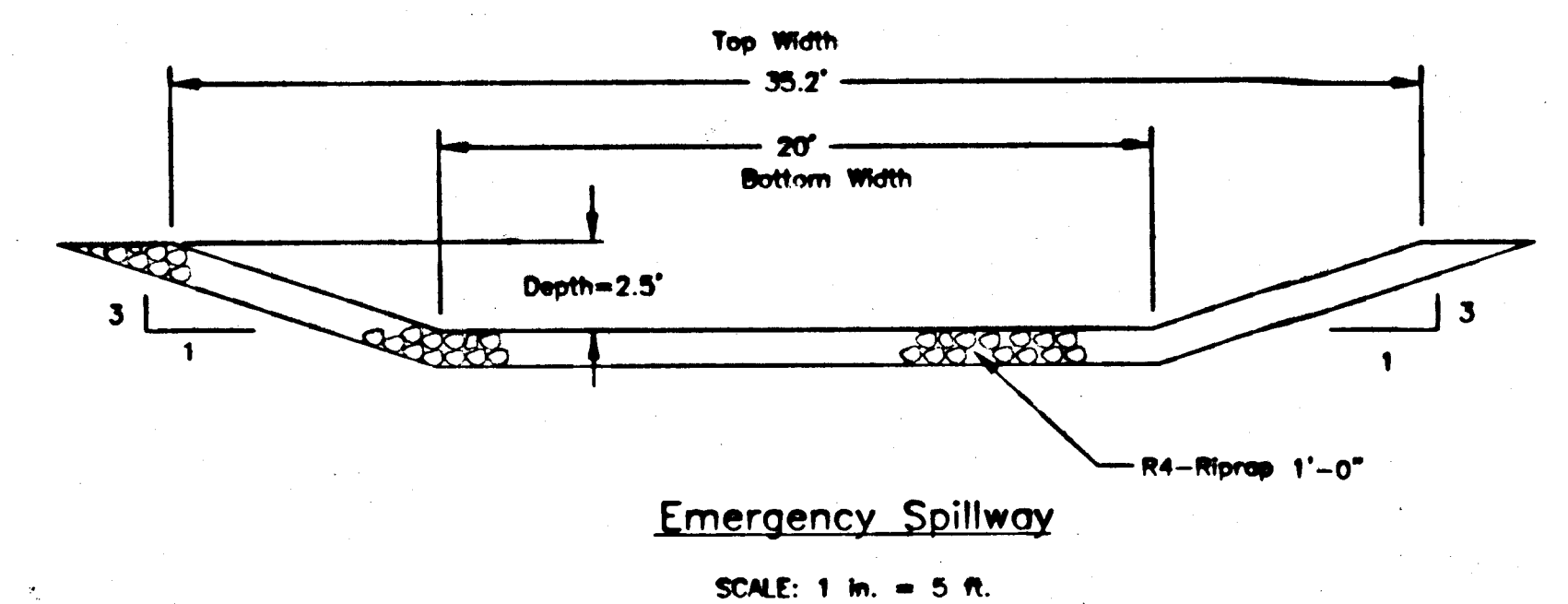
Typical V Ditch Detail
Collection Ditch
SCALE: 1/2" = 1'

STANDARD EROSION AND SEDIMENTATION CONTROL PLAN NOTES

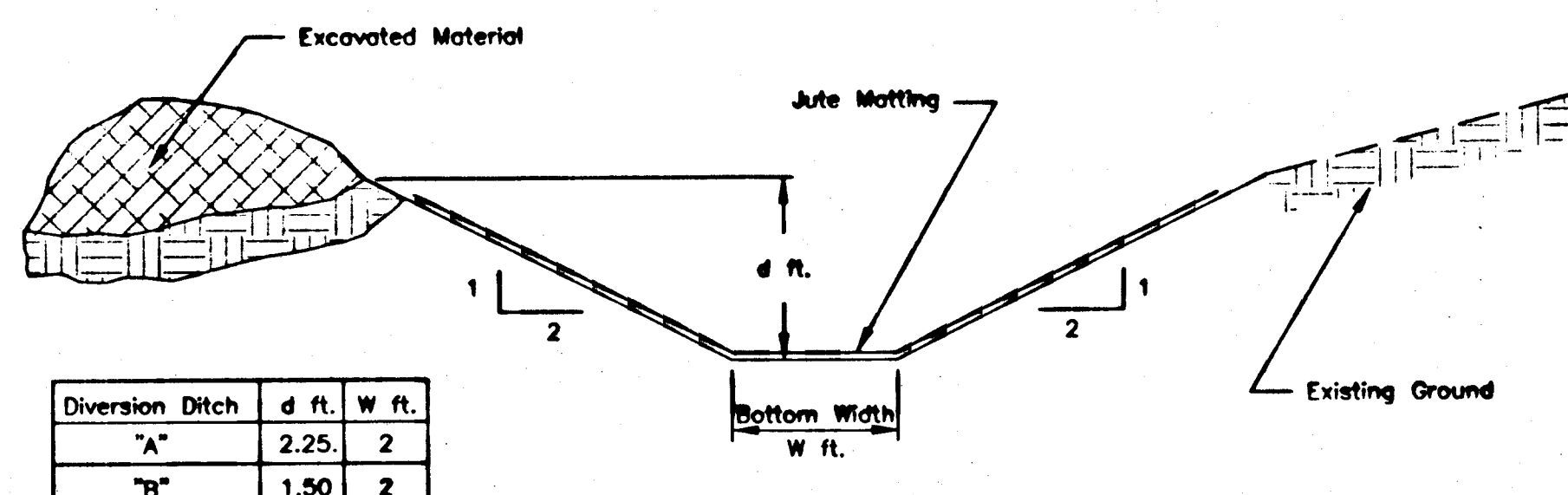
1. Erosion and sedimentation controls must be constructed, stabilized, and functional before site disturbance within the tributary areas of those controls.
2. After final site stabilization has been achieved, temporary erosion and sedimentation controls must be removed. Areas disturbed during removal of the controls must be stabilized immediately.
3. Clean out stake must be placed at half distance from point of concentrated inflow to the emergency spillway. When sediment has accumulated to clean out elevation on the stake, it must be removed to restore basin capacity. The clean out elevation shall be 3.5 feet higher than the basin bottom elevation.
4. Sedimentation basin must be protected from unauthorized acts of third party.
5. Filter fabric fence must be installed at level grade. Both ends of each fence section must extend at least 10 feet upslope at 45 degrees to the main fence alignment.
6. Sediment must be removed when accumulations reach 1/2 the above ground height of the fence.
7. Any fence section which has been undermined or topped must be immediately replaced with a rock filter outlet. See Rock Filter Outlet Detail.
8. Any disturbed area on which activity has ceased and which will remain exposed for more than 20 days must be stabilized immediately.
9. Diversions, channels, sedimentation basin, and stockpiles must be temporarily stabilized immediately.
10. Hay or straw mulch must be applied at rates of at least 3.0 tons per acre.
11. Until the site is stabilized, all erosion and sedimentation must be maintained properly. Maintenance must include inspection of all erosion and sedimentation facilities after each runoff event and on a weekly basis. All preventative and remedial maintenance work, including clean out, repair, replacement, regrading, reseeding and remulching must be performed immediately.



Section B-B (AREA B)
SCALE: 1 in. = 20 ft.

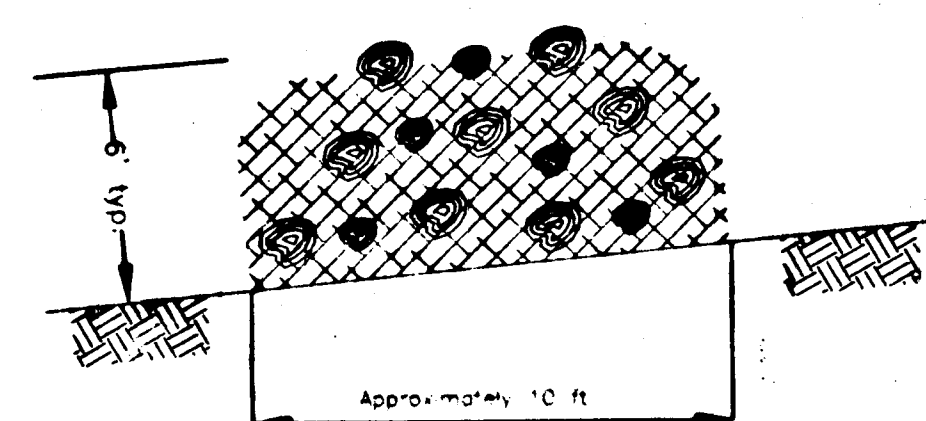


Emergency Spillway
SCALE: 1 in. = 5 ft.

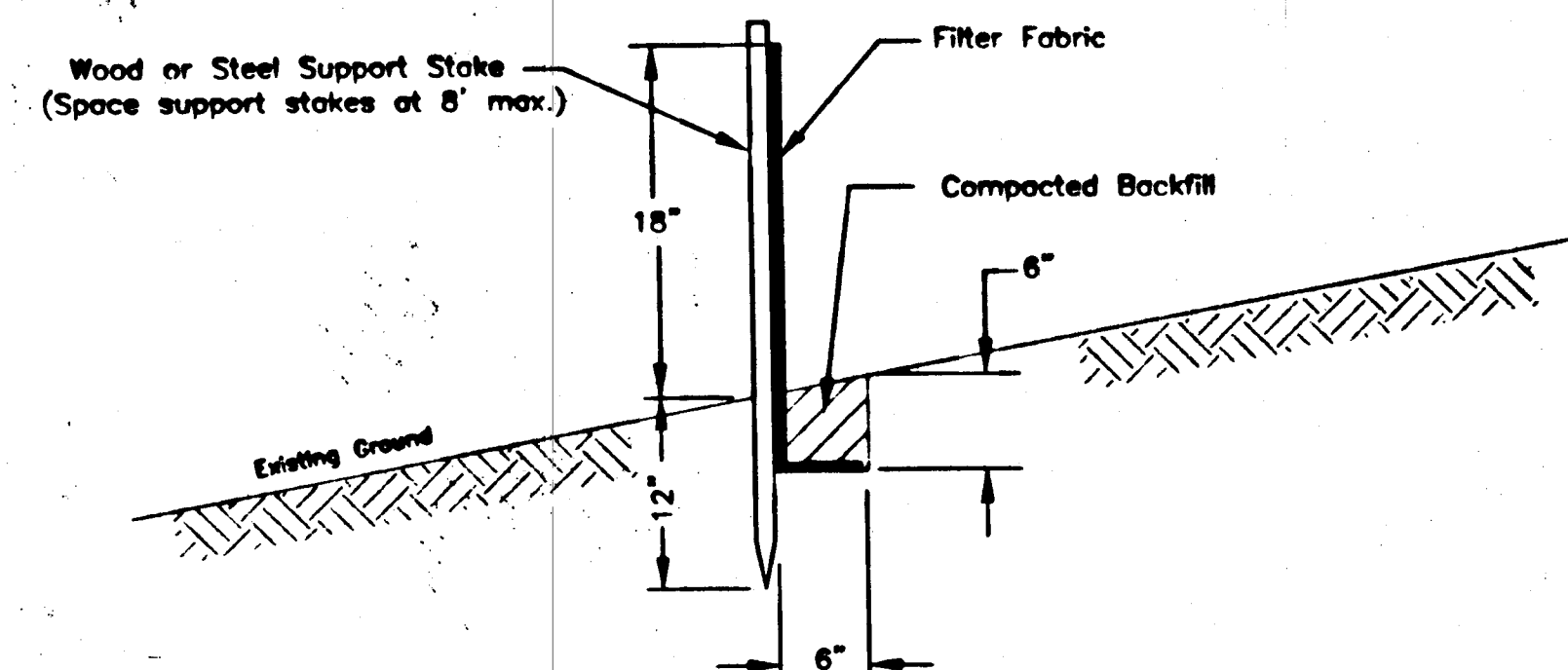


Typical Trapezoidal Ditch Detail

SCALE: 1/2" = 1'



Brush Barrier Detail
SCALE: NONE



Filter Fence Typical
SCALE: NONE

NO.	REVISION.	APPR.
 DISTRICT ENGINEER - HUNTINGDON		
 COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL PROTECTION		
CONTRACT NO. AMD 31(6959)101.1		
AMD ABATEMENT PROJECT ROCKY RIDGE SOUTH		
TODD TWP. HUNTINGDON COUNTY		
E & S DETAILS		
DRAWN BY: WTS CHECKED BY: ACAD. DATE: 10/1/99	DATE: MAY 1, 1999 SCALE: AS SHOWN	DRAWING NO.: 13 of 13

ALL DIMENSIONS AND ELEVATIONS
SHOWN SHALL BE CHECKED
AND VERIFIED BY CONTRACTOR
AT THE SITE