

COMMONWEALTH OF PENNSYLVANIA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION  
**AMD ABATEMENT PROJECT**  
**KOONTZTOWN (OVEN RUN)**  
SHADE TOWNSHIP  
SOMERSET COUNTY, PENNSYLVANIA  
CONTRACT NO. AMD 56 (2524) 102.1

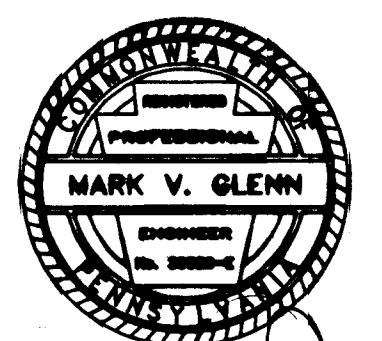
**DRAWING INDEX**

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EROSION AND SEDIMENTATION CONTROL DETAILS	10 of 10

**TOM RIDGE**  
GOVERNOR

**JAMES M. SEIF**  
SECRETARY OF ENVIRONMENTAL PROTECTION

Prepared and Submitted by  
**MARK V. GLENN, P.E.**  
**GWIN, DOBSON & FOREMAN, INC**  
3121 Fairway Drive  
Suite B  
Altoona, PA 16602



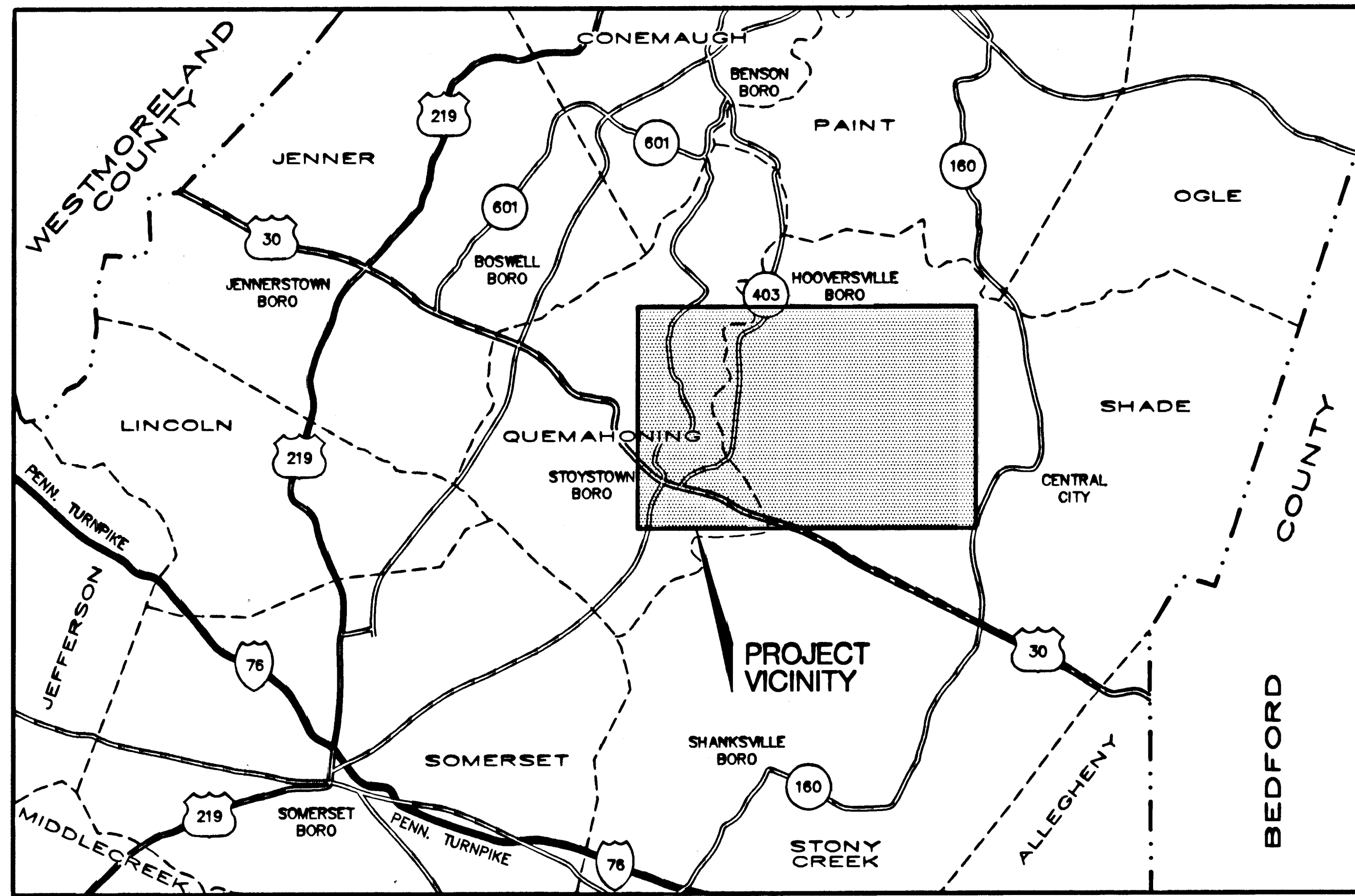
*Handwritten signature*

APPROVED

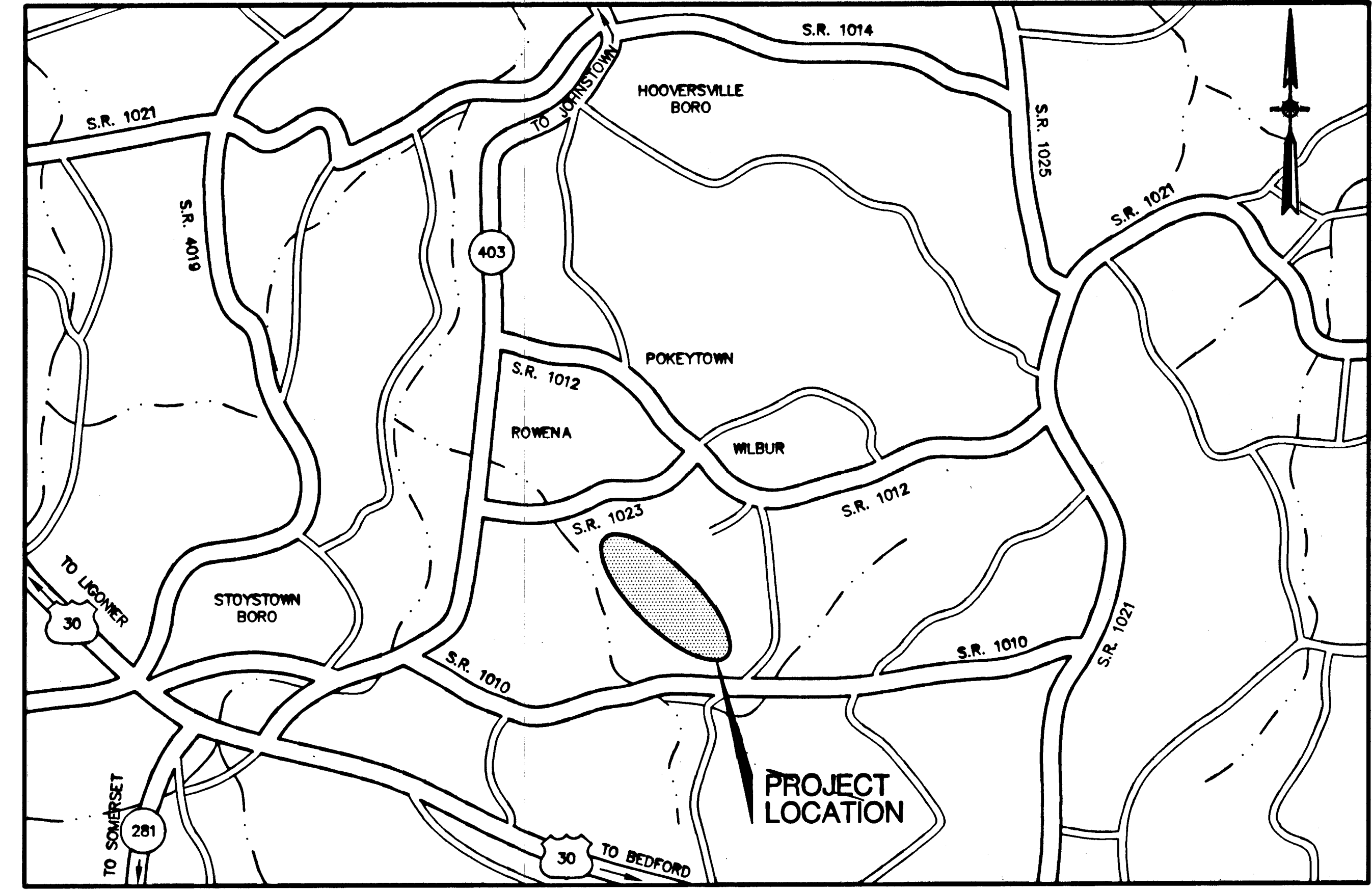
*Charles H. Meyers*

*5/15/98*  
DATE

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



**VICINITY MAP**  
Scale: 1" = 2 Miles



**LOCATION MAP**  
Scale: 1" = 1/2 Mile

**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.

**NO KNOWN UTILITIES IN THE WORK AREA**

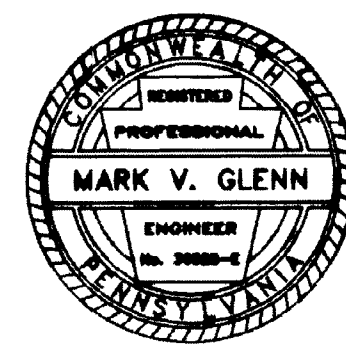
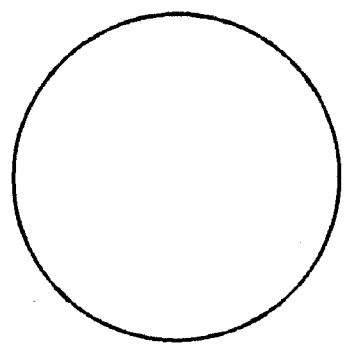
"PA ONE CALL SYSTEM" SERIAL NUMBER: 4210643  
"PA ONE CALL SYSTEM" TOLL-FREE NUMBER: 1-800-242-1778

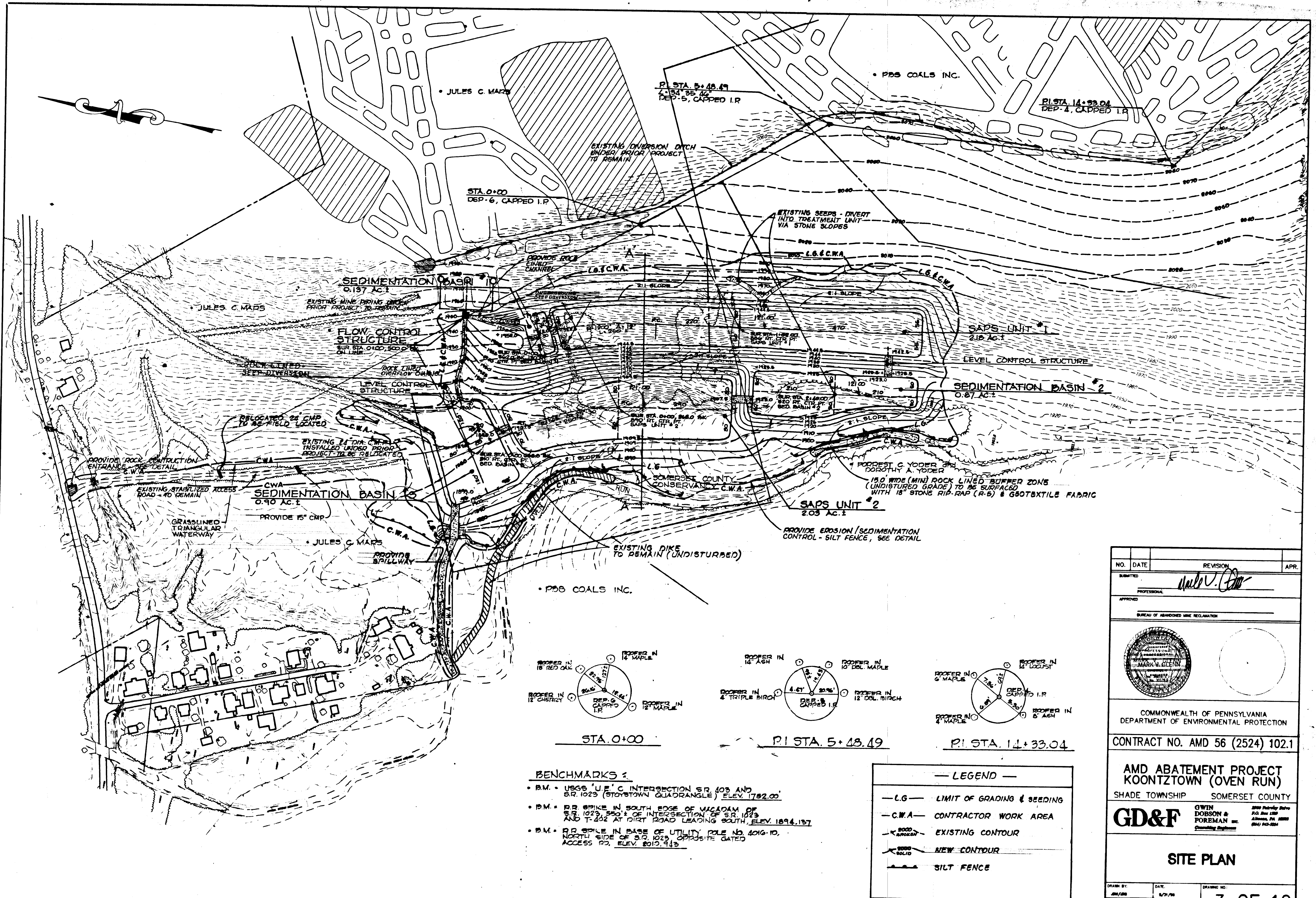
The following is a list of known public utilities located within or adjacent to the project area:

- |   |   |
|---|---|
| <p>1. Sanitary Sewer: Shade Central City Joint Authority<br/>Sunshine Ave.<br/>Central City, PA 15926<br/>Phone: (814) 754-4195</p> <p>2. Telephone: General Telephone Co. of PA<br/>R.D. #5<br/>Somerset, PA 15501<br/>Phone: (800) 242-1778</p> <p>3. Water: Central City Water Authority<br/>241 Sunshine Ave.<br/>Central City, PA 15926<br/>Phone: (814) 754-4111</p> <p>4. Gas: U.G.I. Corporation<br/>PA One-Call System<br/>Phone: (800) 242-1778</p> | <p>5. Electric: Somerset Rural Electric Coop., Inc.<br/>Industrial Park<br/>P.O. Box 270<br/>Somerset, PA 15501<br/>Phone: (814) 445-4108</p> <p>PREA/Bedford Rural Electric Coop., Inc.<br/>212 Locust Street<br/>P.O. Box 1266<br/>Harrisburg, PA 17108<br/>Phone: (717) 233-5704</p> <p>Pennsylvania Electric Company<br/>311 Industrial Park Road<br/>Johnstown, PA 15904-1994<br/>Phone: (800) 452-1520</p> <p>Rockingham Light, Heat and Power Co.<br/>509 15th Street<br/>Winifred, PA 15963<br/>Phone: (814) 467-4581</p> |
|---|---|

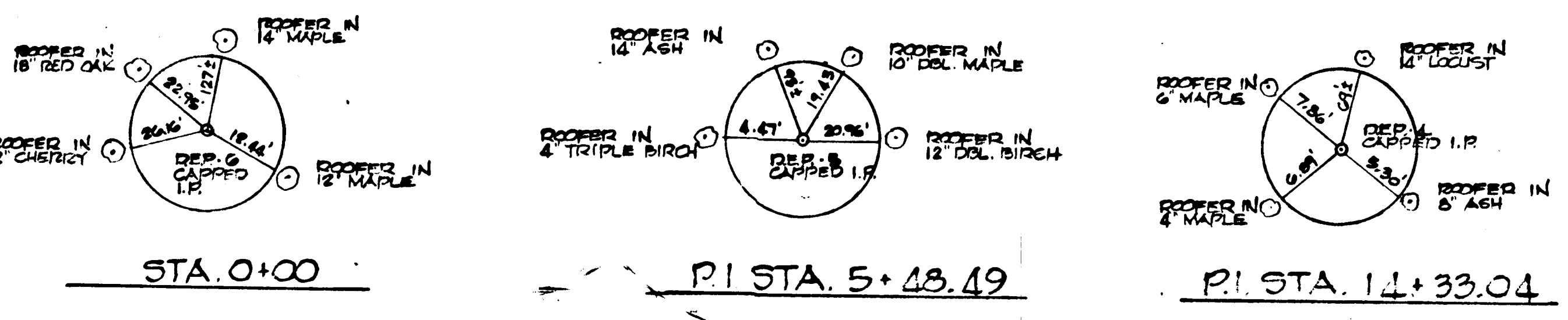
**NOTES:**

1. TOPOGRAPHY BY THE EADS GROUP, ALTOONA PA, USING PHOTOGRAPHY DATED NOVEMBER 8, 1993. ELEVATIONS OF THE FEATURES ARE TO BE TAKEN FROM THE BENCH MARKS ON THE DRAWINGS
2. ALL ELEVATIONS SHOWN ARE BASED ON CURRENT USGS DATUM.
3. MINOR ADJUSTMENTS IN GRADE MAY BE MADE BY THE DEPARTMENT TO SUIT FIELD CONDITIONS.
4. LIMITS OF GRADING AND SEEDING AS SHOWN ON THE PLAN ARE APPROXIMATE. MINOR DEVIATIONS MAY BE PERMITTED SUBJECT TO THE APPROVAL OF THE DEPARTMENT REPRESENTATIVE.
5. ALL AREAS DISTURBED OUTSIDE OF THE GRADING AND SEEDING LIMITS MUST BE RESTORED TO AN EQUAL OR BETTER CONDITION THAN THE EXISTING CONDITIONS.
6. DATA CONCERNING UNDERGROUND UTILITIES HAVE BEEN OBTAINED FROM AVAILABLE INFORMATION. ACCURACY OF THIS DATA IS NOT GUARANTEED. SEE UTILITY LISTINGS ON THIS DRAWING.
7. PROPERTY INFORMATION OBTAINED FROM PUBLIC RECORDS ON FILE AT THE SOMERSET COUNTY COURTHOUSE AND REFLECTS THE ACCURACY THEREOF; PROPERTY LINES DO NOT REPRESENT FIELD INSTRUMENT SURVEYS.
8. ALL AREAS WHERE 2 FT. CONTOURS ARE NOT SHOWN SHALL BE GRADED AT A UNIFORM SLOPE BETWEEN 10 FT. CONTOURS.
9. ALL ELEVATIONS AND EXISTING CONTOURS SHALL BE FIELD VERIFIED AND CHECKED BY THE CONTRACTOR PRIOR TO CONSTRUCTION TO DETERMINE DISCREPANCIES AND ON-SITE CORRECTIVE ACTIVITIES, IF ANY.
10. DATA CONCERNING ON-SITE IMPOUNDMENTS WAS OBTAINED FROM CONDITIONS EXISTING AT THE TIME OF AERIAL SURVEY AND MAY DIFFER FROM CONDITIONS DURING CONSTRUCTION. THE CONTRACTOR SHALL DEWATER ALL IMPOUNDMENTS WITHIN THE LIMITS OF GRADING EXISTING AT THE TIME OF CONSTRUCTION OF THE PROJECT.
11. CONTRACTOR SHALL EXERCISE CAREFUL EXCAVATION TECHNIQUES AND EMPLOY CAUTIOUS MEANS AND METHODS OF CONSTRUCTION DURING RECLAMATION AND ABATEMENT WORK NEAR DEEP MINE WORKINGS AND OPENINGS IN ACCORDANCE WITH OSHA AND DEEP MINE SAFETY STANDARDS.
12. THE CONTRACTOR SHALL NOTE THE SPECIFICATION REQUIREMENT FOR THE CONSTRUCTION OF BRUSH PILES AND WILDLIFE HABITATS.

NO.	DATE	REVISION	APR.
SUBMITTED: <i>Mark Glenn</i>			
PROFESSIONAL			
APPROVED: _____			
BUREAU OF ABANDONED MINE RECLAMATION			
			
COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL PROTECTION			
CONTRACT NO. AMD 56 (2524) 102.1			
<b>AMD ABATEMENT PROJECT KOONTZTOWN (OVEN RUN)</b>			
SHADE TOWNSHIP      SOMERSET COUNTY			
<b>GD&amp;F</b>		GWIN DOBSON & FOREMAN <i>Consulting Engineers</i>	
<b>LOCATION AND VICINITY MAPS</b>			
DRAWN BY: JMB	DATE: 5/21/98	DRAWING NO.:	2 OF 10
CHECKED BY: JMB/MSB	SCALE:	AS SHOWN	



• PDS COALS INC.

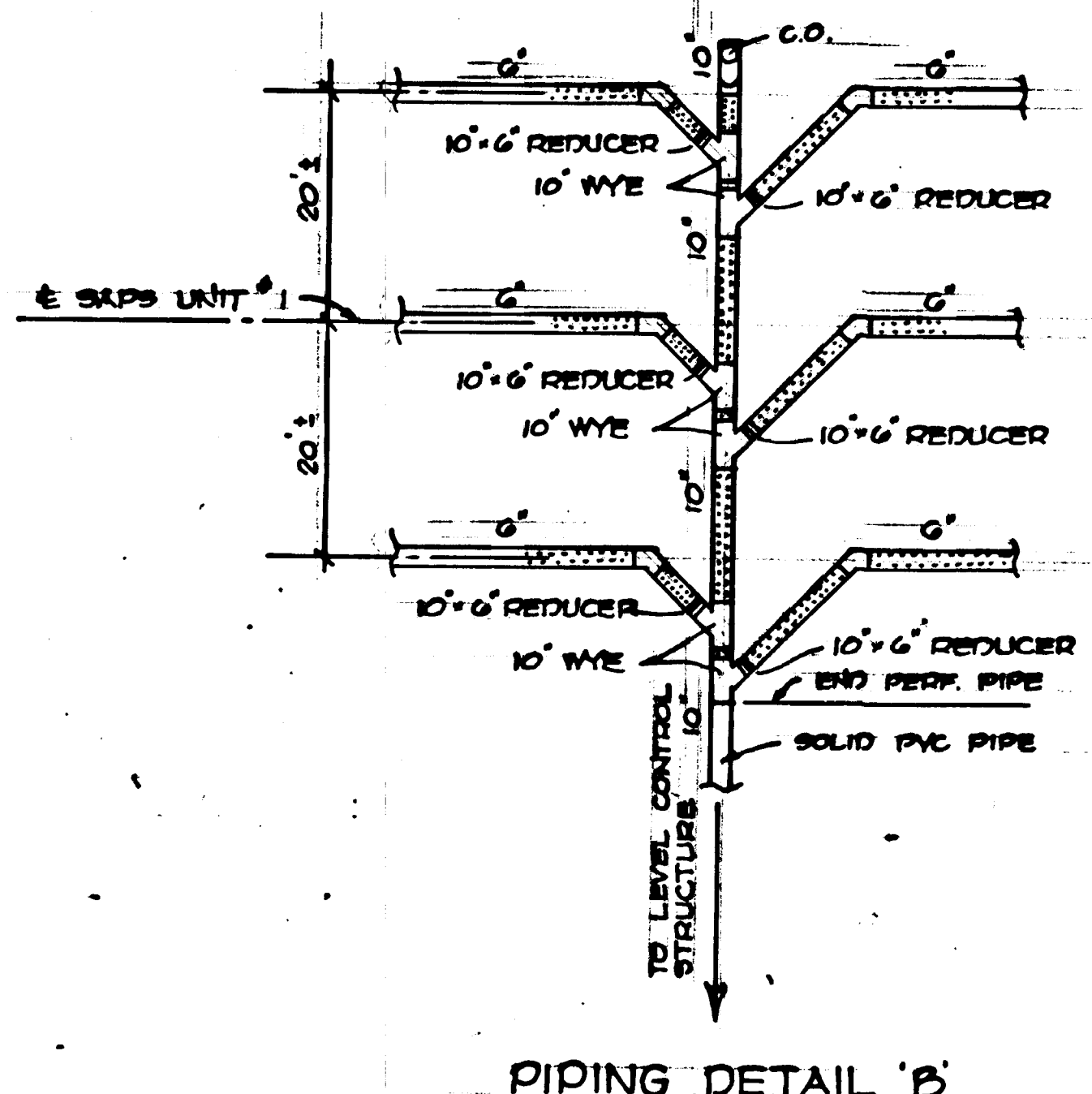
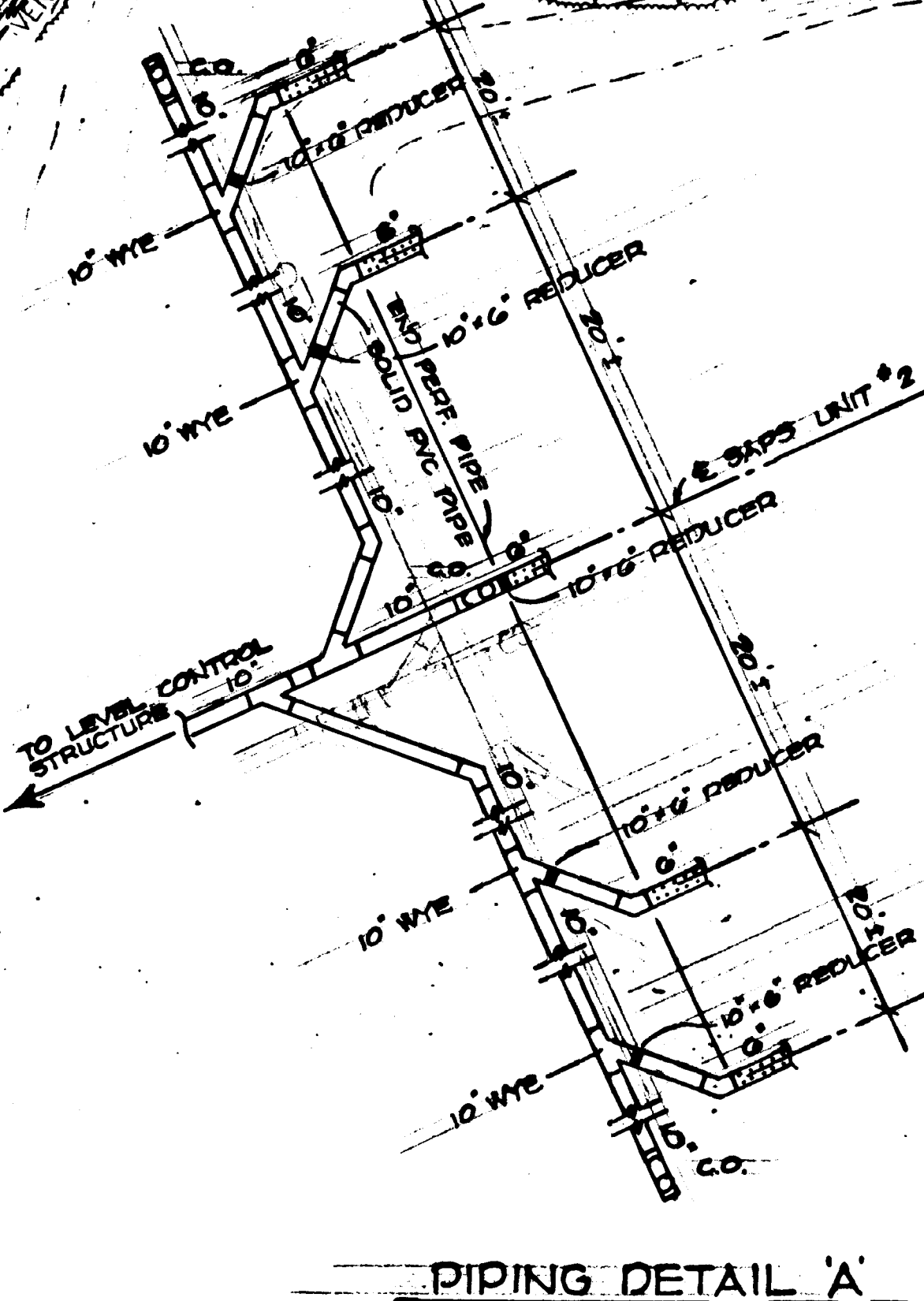
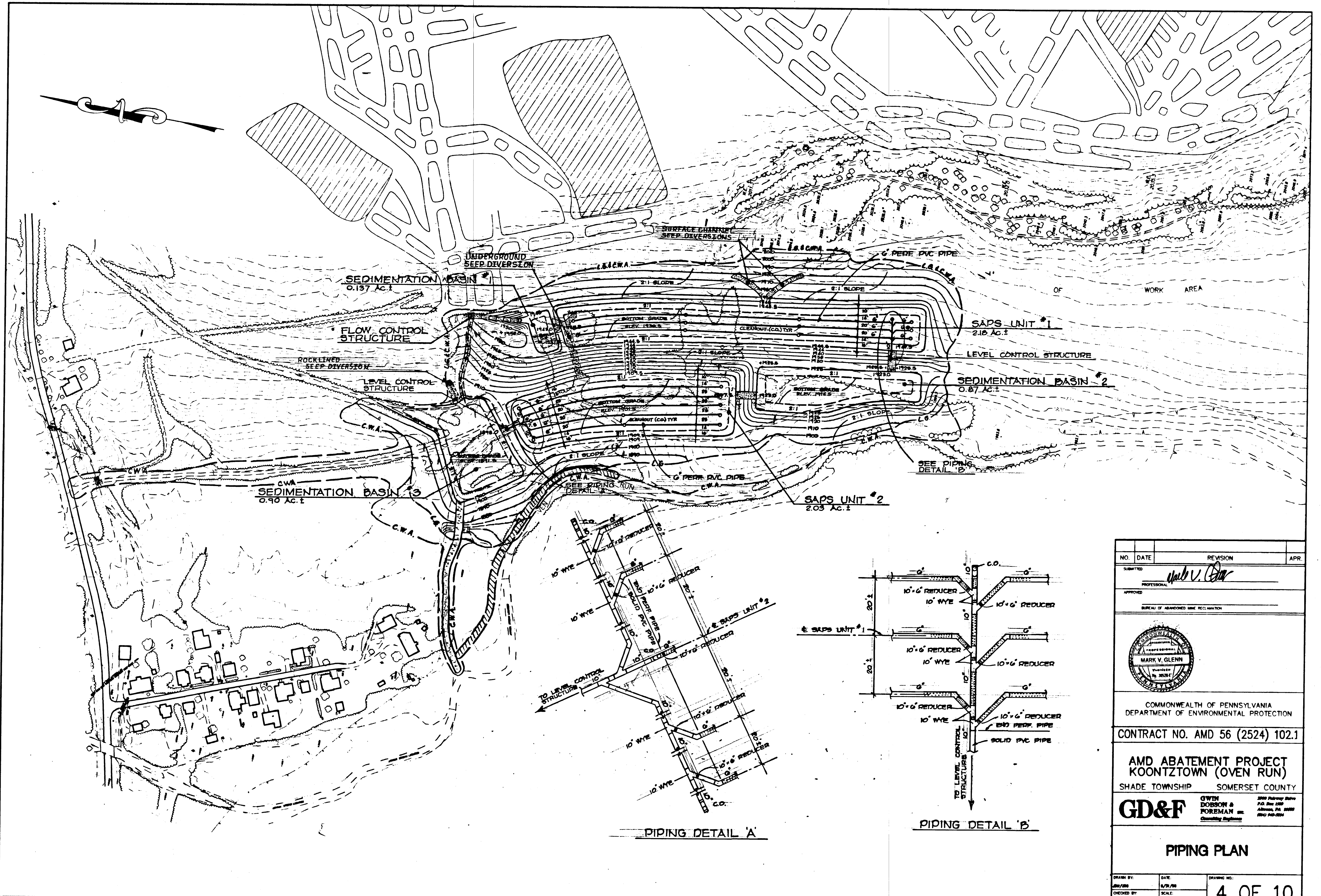


- BENCHMARKS:**
- B.M. - USGS "U.E." C INTERSECTION S.R. 1023 AND S.R. 1023 (STOYSTOWN QUADRANGLE) ELEV. 1792.00'
  - B.M. - RR SPIKE IN SOUTH EDGE OF MACADAM OF S.R. 1023 550' E OF INTERSECTION OF S.R. 1023 AND T-202 AT DIRT ROAD LEADING SOUTH, ELEV. 1894.137'
  - B.M. - RR SPIKE IN BASE OF UTILITY POLE NO. 4016-10, NORTH SIDE OF S.R. 1023, OPPOSITE GATED ACCESS RD., ELEV. 2010.945'

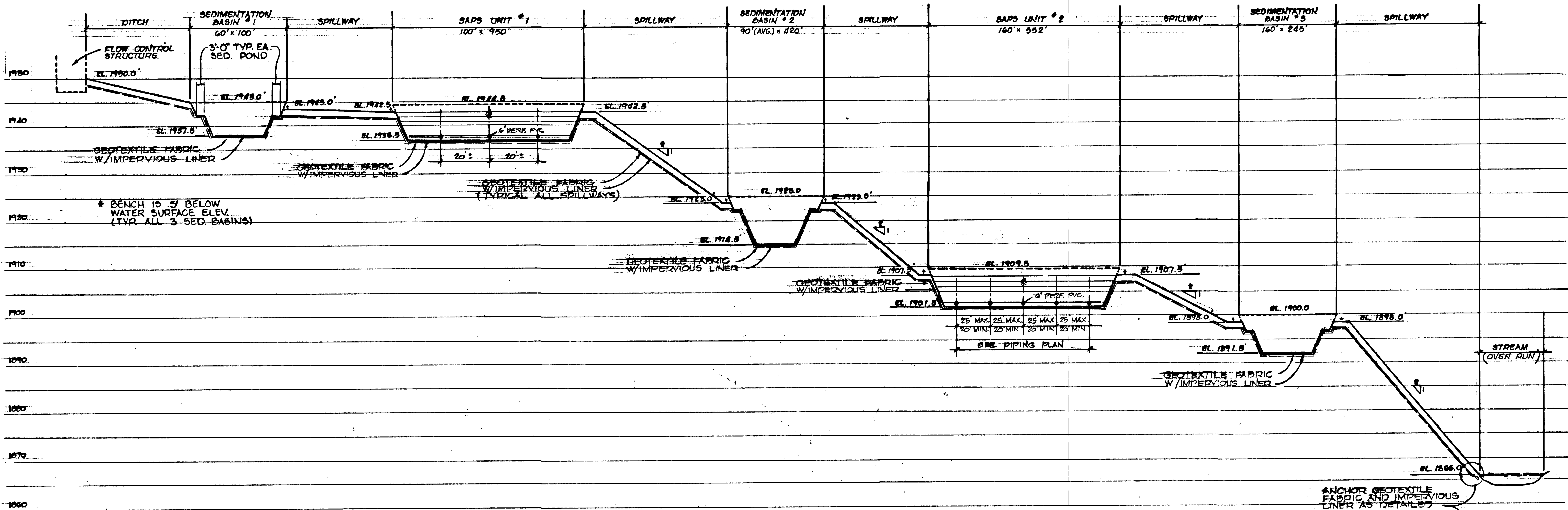
**LEGEND**

- L.G. — LIMIT OF GRADING & SEEDING
- C.W.A. — CONTRACTOR WORK AREA
- EXISTING CONTOUR
- NEW CONTOUR
- SILT FENCE

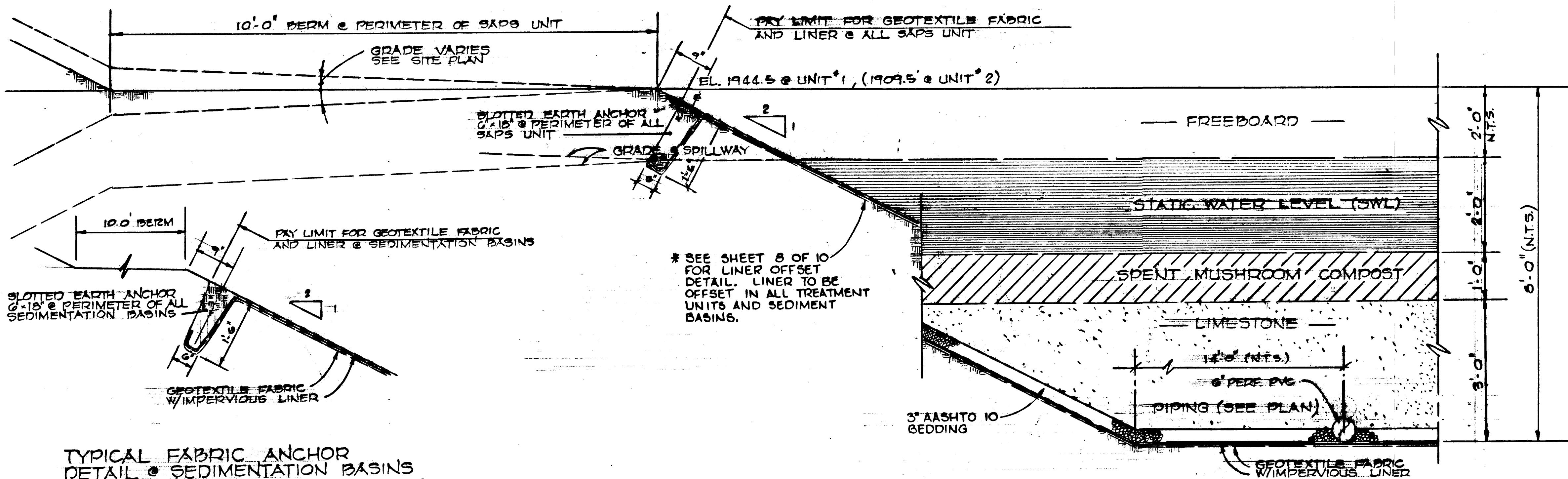
NO.	DATE	REVISION	APR.
SUBMITTED		PROFESSIONAL <i>Mark V. Glavin</i>	
APPROVED		BUREAU OF ABANDONED MINE RECLAMATION	
COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL PROTECTION			
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AMD ABATEMENT PROJECT KOONTZTOWN (OVEN RUN)			
SHADE TOWNSHIP		SOMERSET COUNTY	
<b>GD&amp;F</b>		GWIN DOBSON & FOREMAN INC. 2000 Parkway Drive P.O. Box 1200 Allentown, PA 18106 (610) 482-2200	
<b>SITE PLAN</b>			
DRAWN BY: JMB/AMB	DATE: 5/7/99	DRAWING NO.:	<b>3 OF 10</b>
CHECKED BY: DCB/AMB	SCALE: 1" = 100'		



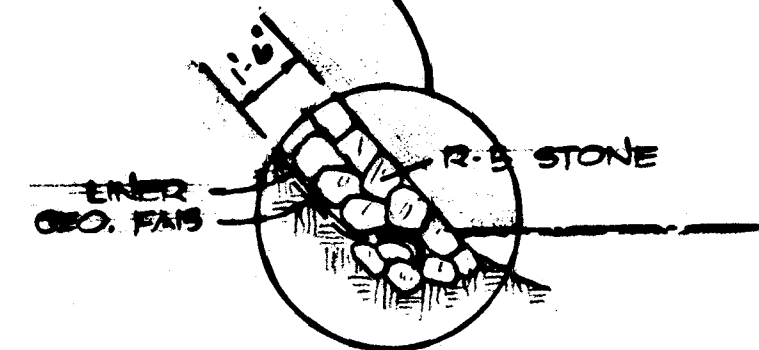
NO.	DATE	REVISION	APR.
SUBMITTED <i>Mark V. Glenn</i>			
APPROVED			
BUREAU OF ABANDONED MINE RECLAMATION			
COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL PROTECTION			
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SHADE TOWNSHIP SOMERSET COUNTY			
<b>GD&amp;F</b>		<small>GWIN DOBSON &amp; FOREMAN, INC. 2800 Parkway Drive P.O. Box 500 Allentown, PA 18106 (610) 492-2244 Consulting Engineers</small>	
<b>PIPING PLAN</b>			
DRAWN BY: <i>MD</i>	DATE: 5/28/89	DRAWING NO.:	<b>4 OF 10</b>
CHECKED BY:	SCALE:		
DATE:	SCALE:		



HYDRAULIC PROFILE  
NO SCALE



ANCHOR GEOTEXTILE FABRIC AND IMPERVIOUS LINER AS DETAILED



NO.	DATE	REVISION	APR.

SUBMITTED: *Mark V. Glenn*  
PROFESSIONAL  
APPROVED: \_\_\_\_\_  
BUREAU OF ABANDONED MINE RECLAMATION



COMMONWEALTH OF PENNSYLVANIA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION

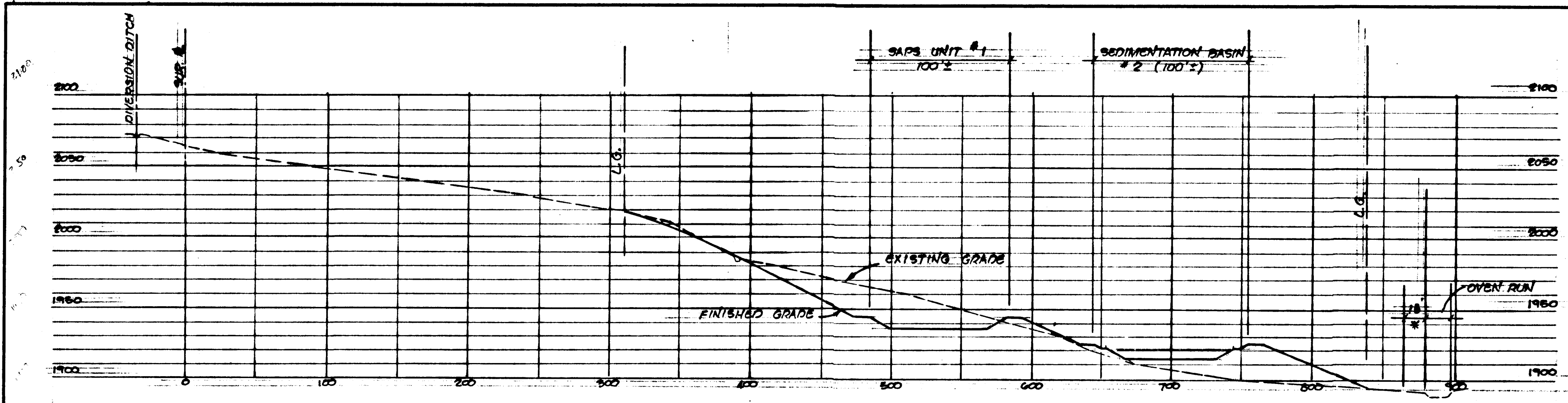
CONTRACT NO. AMD 56 (2524) 102.1

AMD ABATEMENT PROJECT  
KOONTZTOWN (OVEN RUN)  
SHADE TOWNSHIP SOMERSET COUNTY

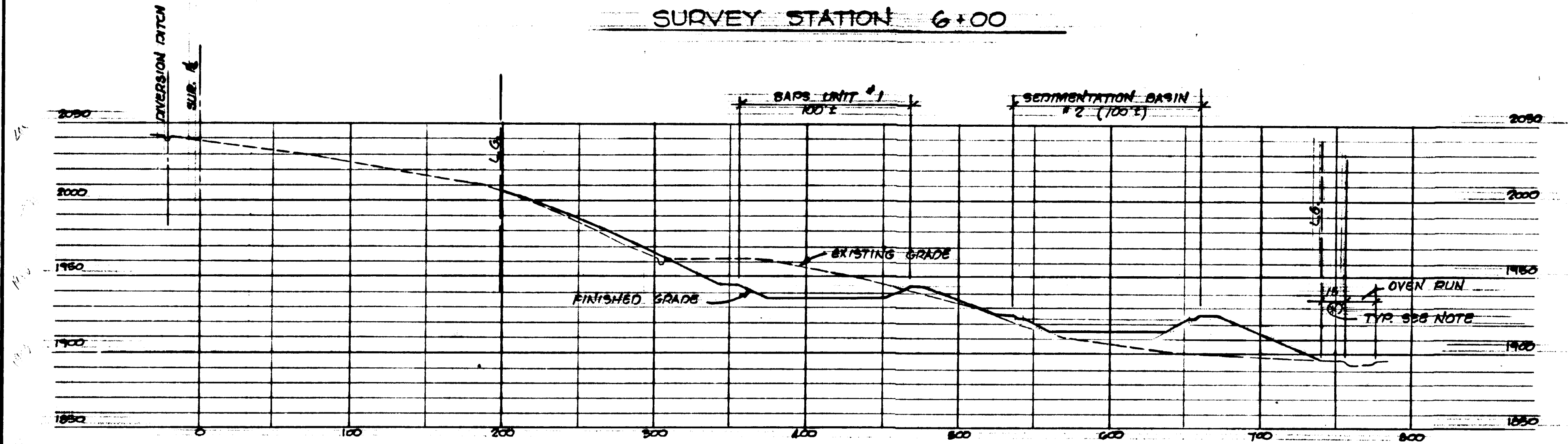


HYDRAULIC PROFILE  
AND SECTION

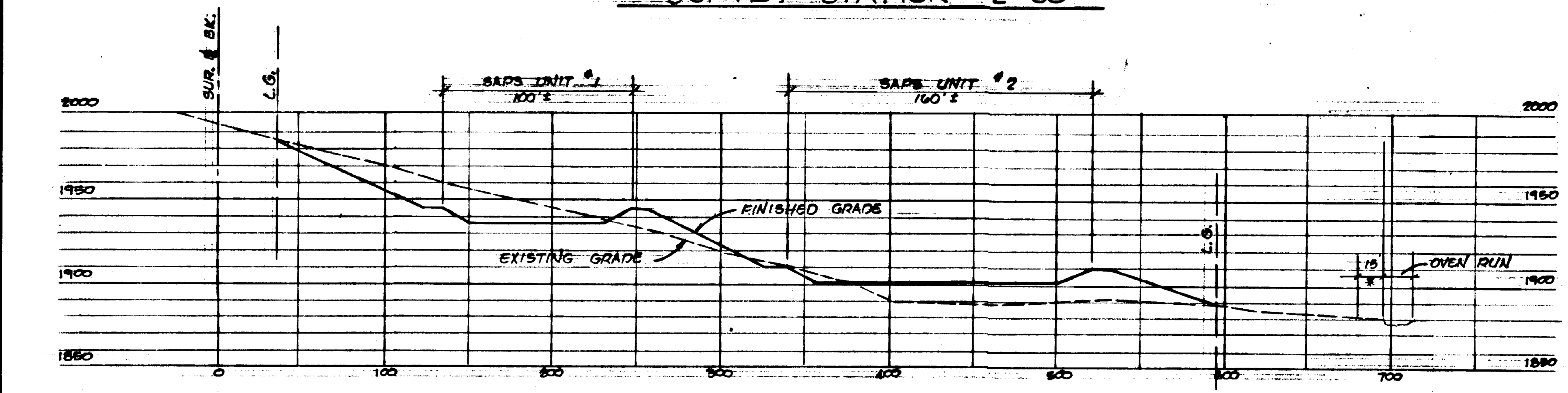
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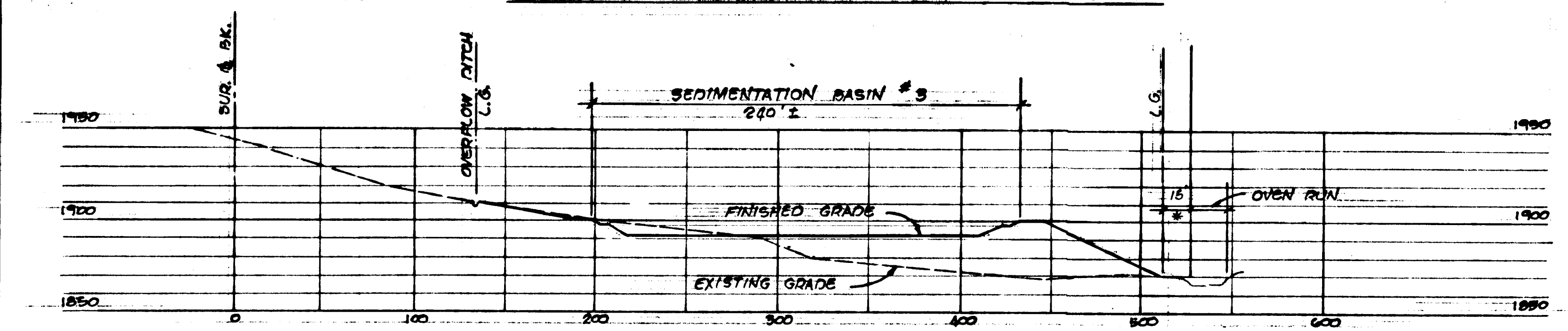
SURVEY STATION 6+00



SURVEY STATION 2+00



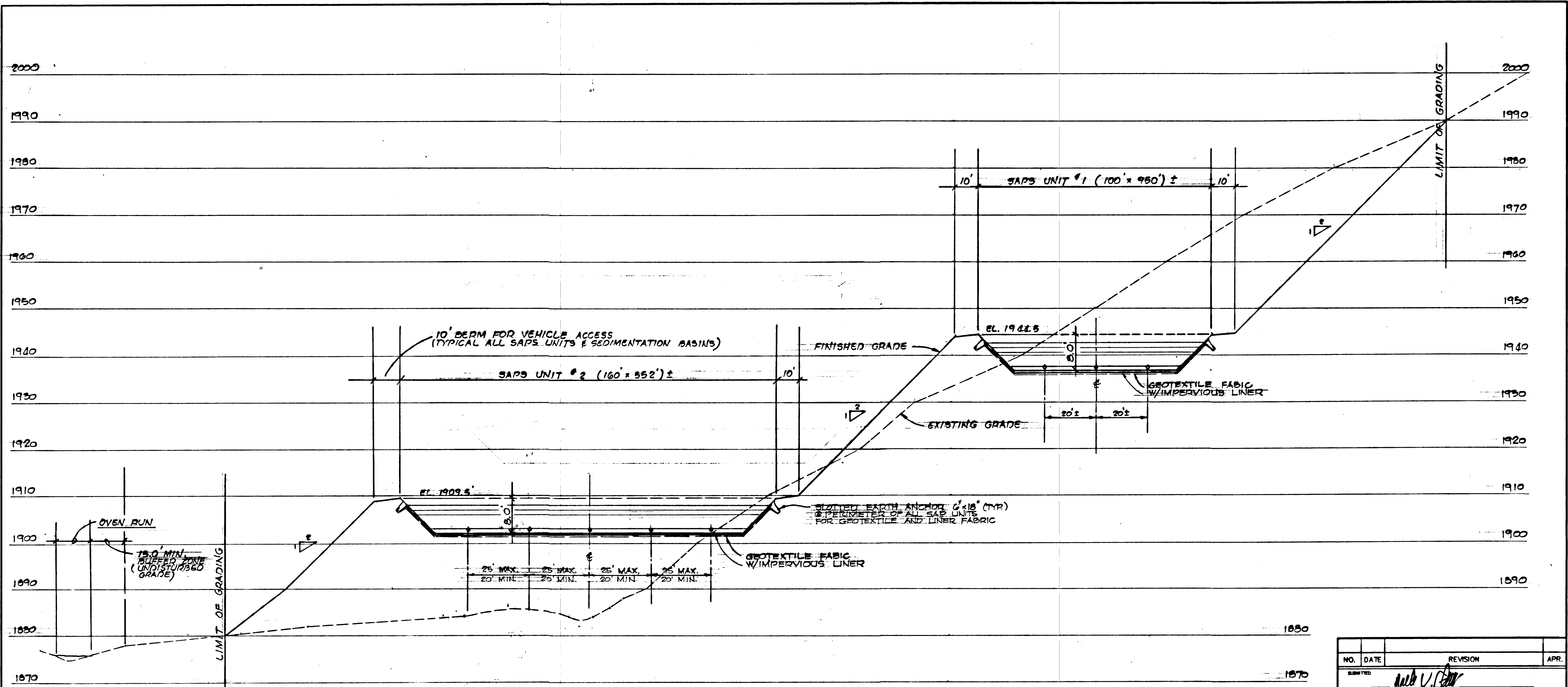
SURVEY STATION 2+00 BK.



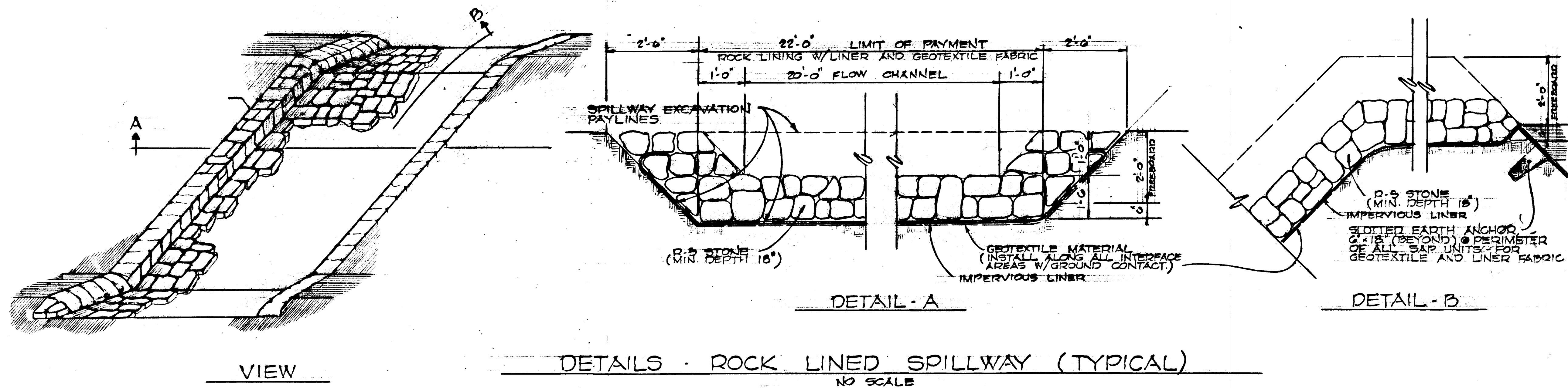
SURVEY STATION 6+00 BK.

\* NOTE: 15' (MINIMUM) BUFFER AREA OF UNDISTURBED GRADING TO BE MAINTAINED BETWEEN LIMIT OF GRADING AND EDGE OF STREAM (OVEN RUN). ADJUST SLOPES AS REQUIRED.

NO.	DATE	REVISION	APR.
SUBMITTED			
PROFESSIONAL <i>Mark V. Glenn</i>			
APPROVED			
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SHADE TOWNSHIP SOMERSET COUNTY			
		GWIN DOBSON & FOREMAN INC. Consulting Engineers <small>2800 Parkway Drive P.O. Box 280 Allentown, PA 18103 (610) 261-2222 (610) 261-2224 (Fax)</small>	
CROSS-SECTIONS			
DRAWN BY:	DATE:	DRAWING NO.:	
CHKD BY:	SCALE:	6 OF 10	
APP'D BY:	TITLE:	1" = 50'	




**SECTION A-A**  
SCALE: HORIZ. 1" = 20' VERT. 1" = 10'



**DETAILS - ROCK LINED SPILLWAY (TYPICAL)**  
NO SCALE

NO.	DATE	REVISION	APR.
1			

SUBMITTED: *Mark V. Glenn*  
 PROFESSIONAL  
 APPROVED: \_\_\_\_\_  
 BUREAU OF ABANDONED MINE RECLAMATION

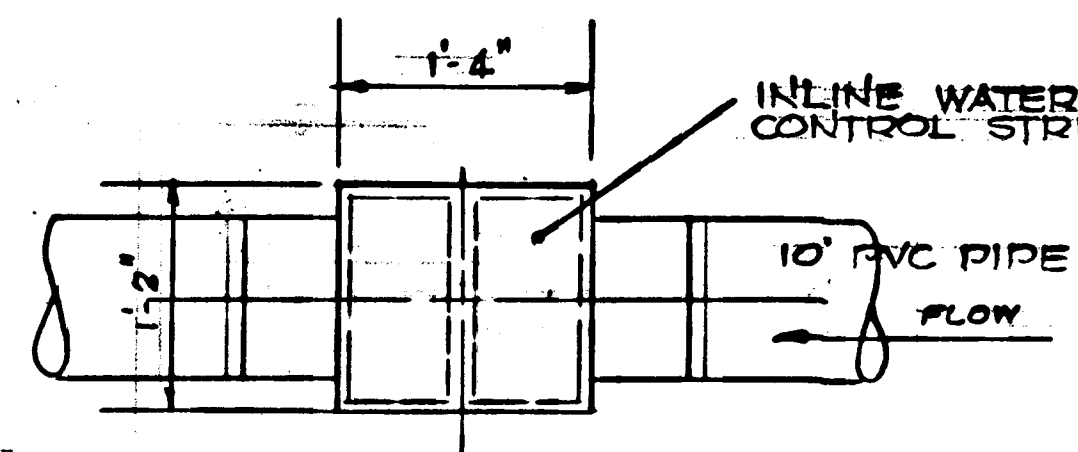
  
**MARK V. GLENN**  
 REGISTERED PROFESSIONAL ENGINEER  
 STATE OF PENNSYLVANIA

COMMONWEALTH OF PENNSYLVANIA  
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 CONTRACT NO. AMD 56 (2524) 102.1  
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 SHADE TOWNSHIP SOMERSET COUNTY

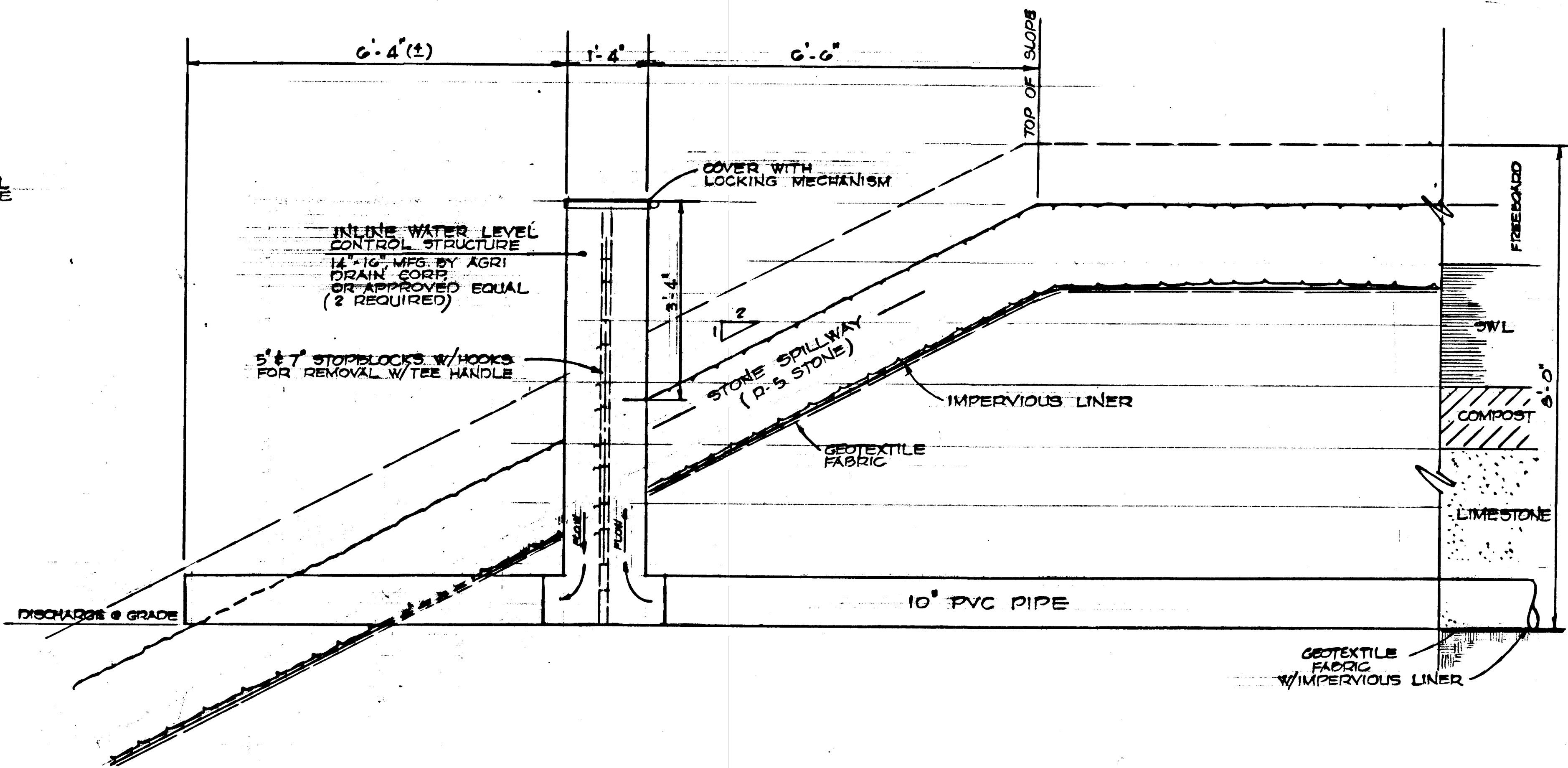
**GD&F**  
 GWIN DOBSON & FOREMAN  
 Consulting Engineers

**SECTION AND DETAILS**

DRAWN BY:	DATE:	7 OF 10
CHECKED BY:	SCALE:	

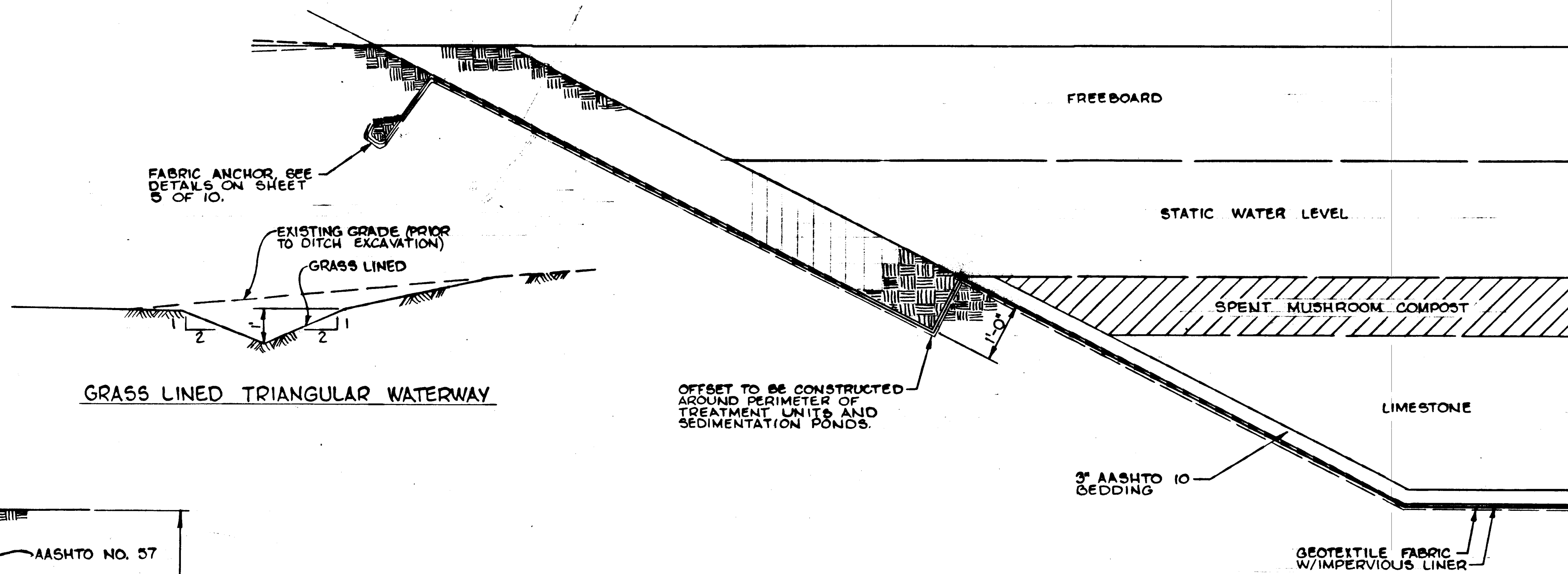


PLAN  
SCALE: 1" = 1'-0"

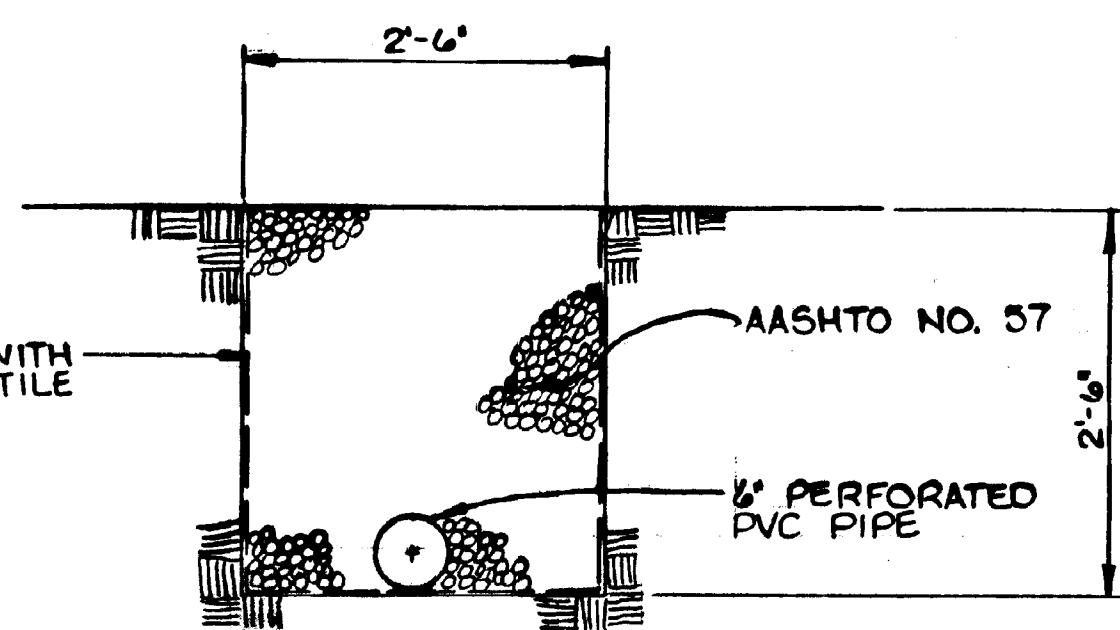


PARTIAL SECTION  
SCALE: 3/4" = 1'-0"

DETAILS & PARTIAL SECTION / LEVEL CONTROL STRUCTURES @ SPILLWAYS



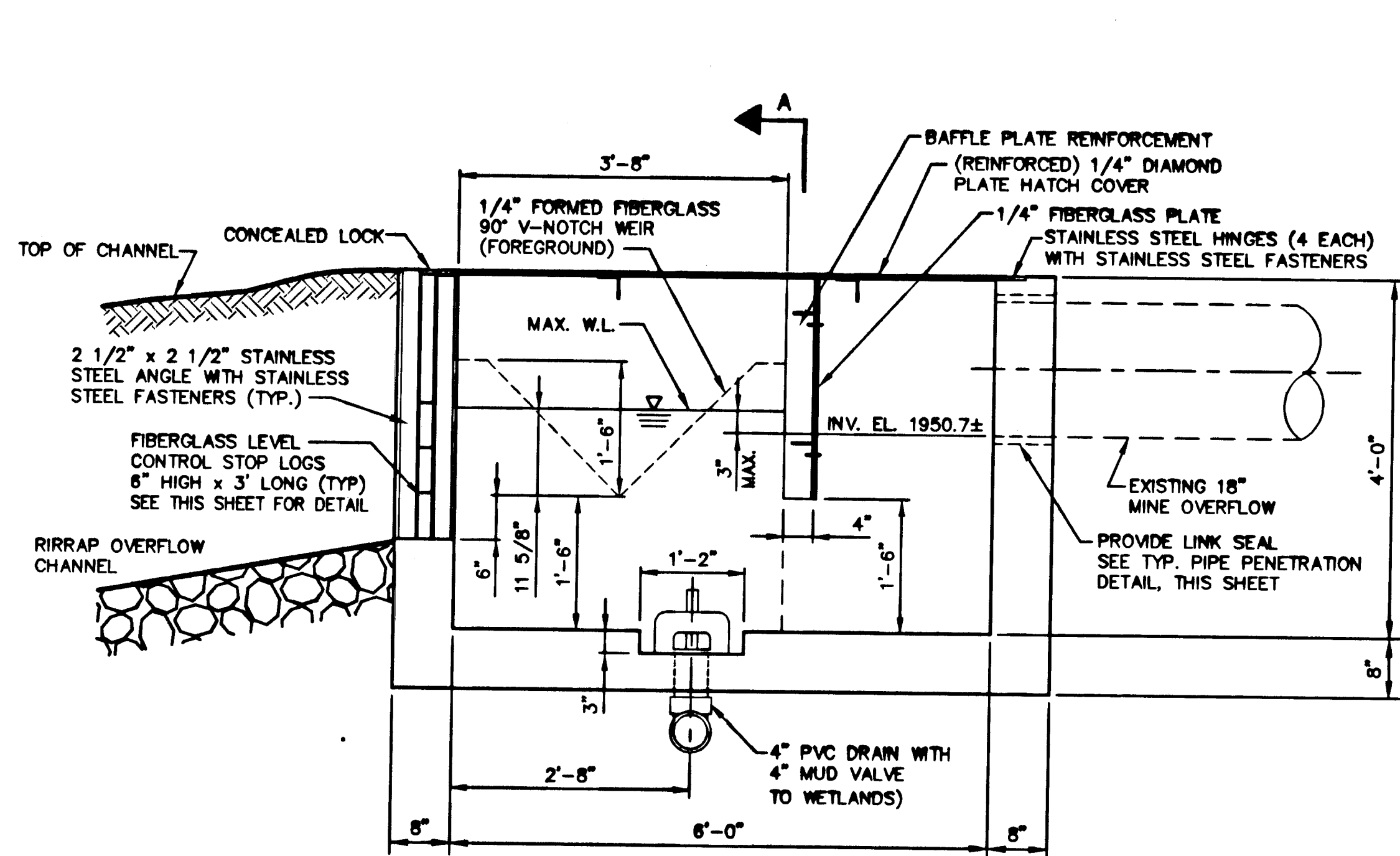
DETAIL OF LINER OFFSET  
SCALE: 3/4" = 1'-0"



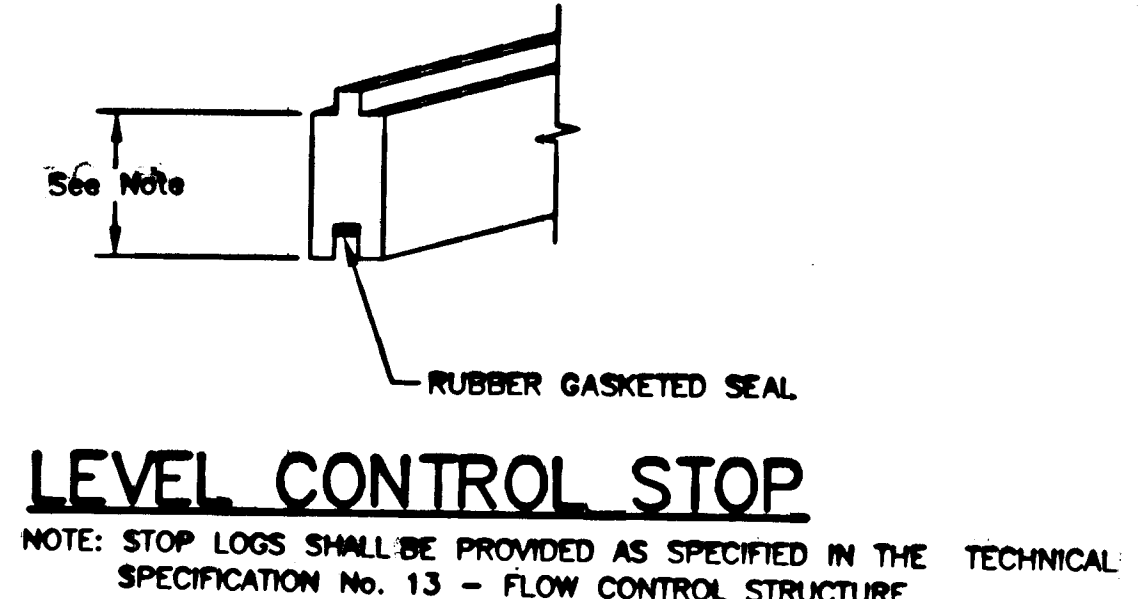
SECTION THROUGH UNDERGROUND  
SEEP DIVERSION  
SCALE: 3/4" = 1'-0"

NO.	DATE	REVISION	APPR.
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<b>GD&amp;F</b>		OWEN DORSON & FOREMAN INC. <i>Quantity Engineers</i>	
<b>SECTION AND DETAILS</b>			
DRAWN BY:	DATE:		
CHKD BY:	SCALE:		
PCS/MS	AS SHOWN	<b>8 OF 10</b>	

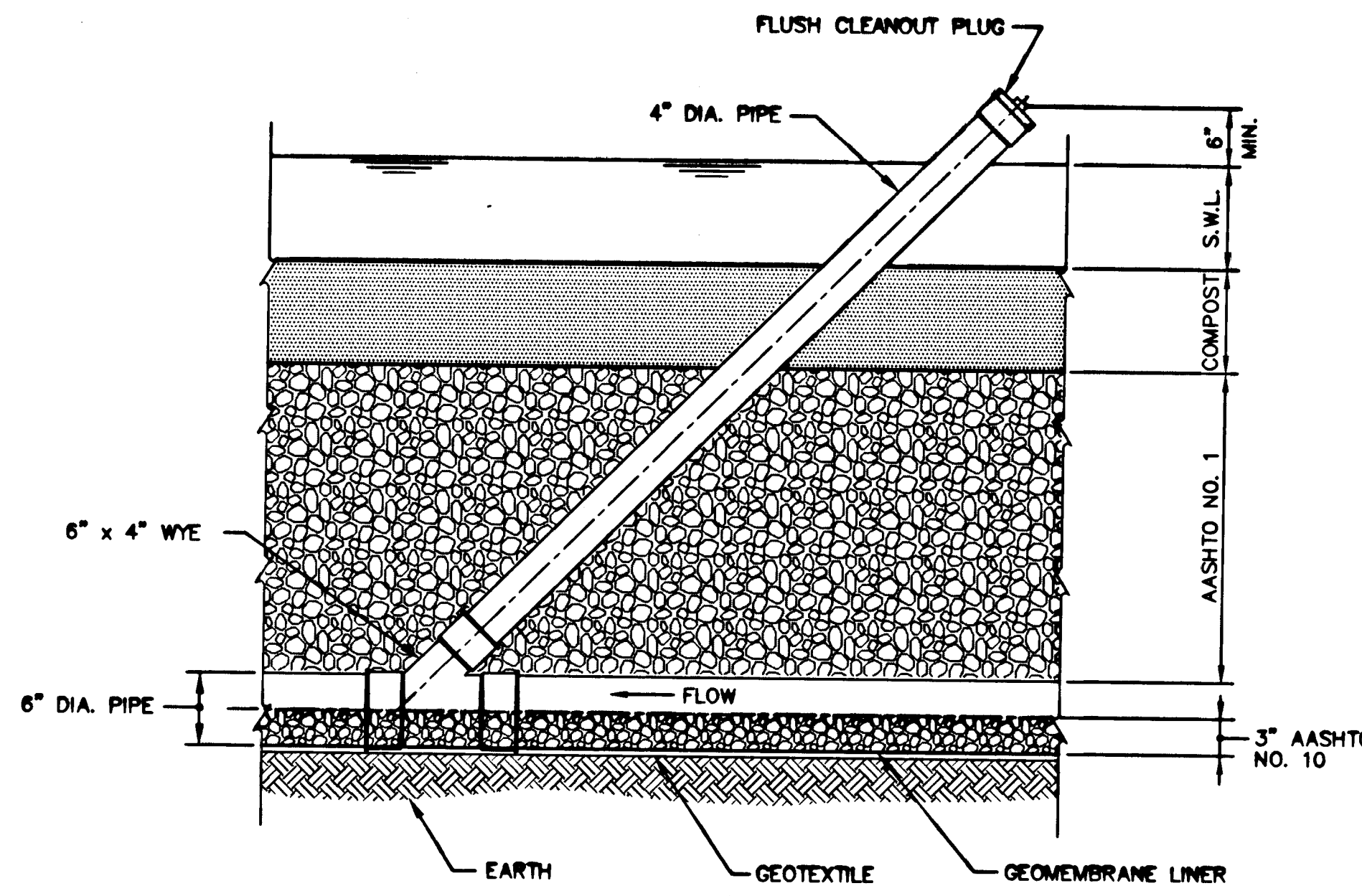




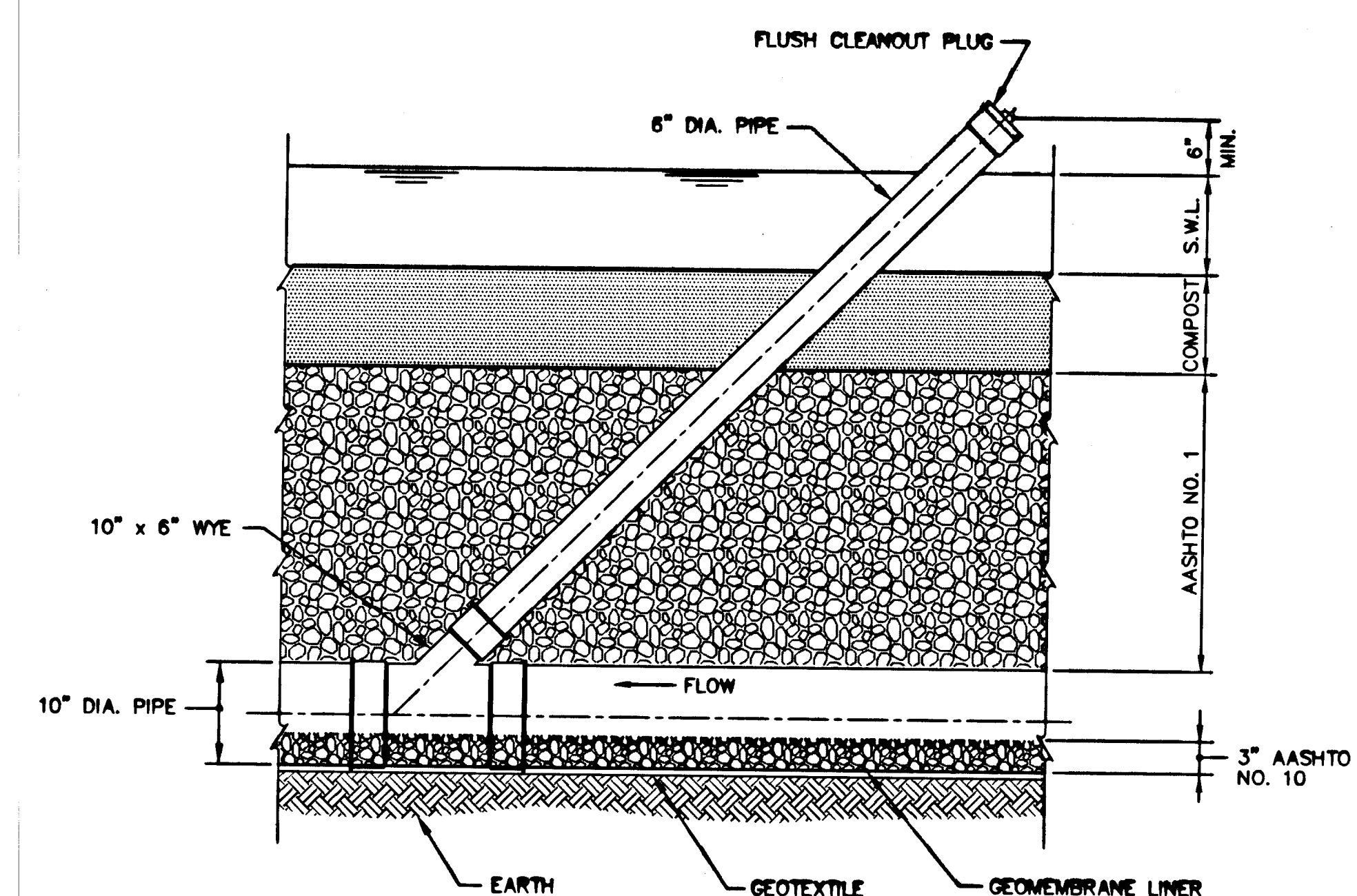
OVEN RUN AND ABATEMENT PROJECT  
FLOW CONTROL STRUCTURE  
**ELEVATION**



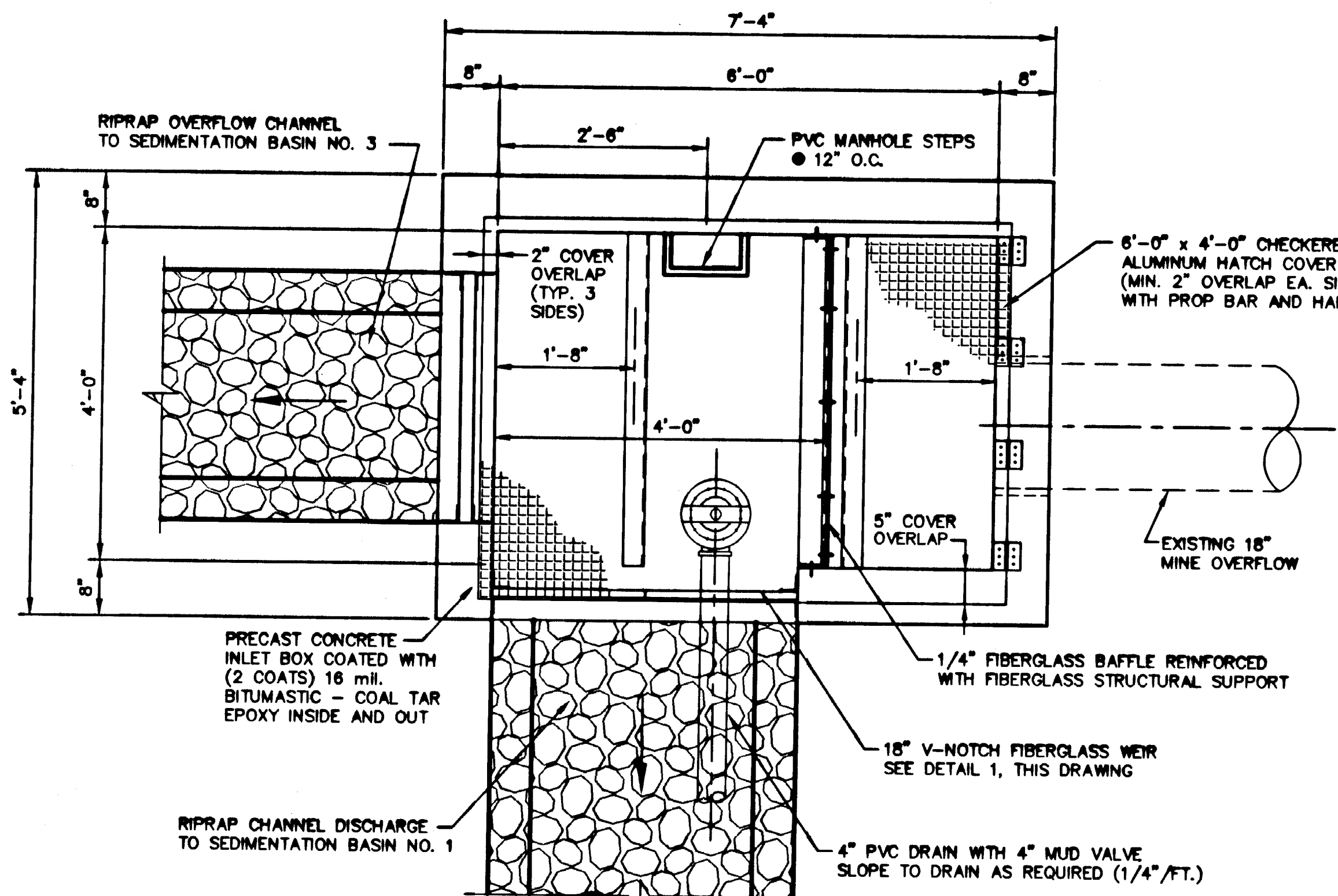
**LEVEL CONTROL STOP**  
NOTE: STOP LOGS SHALL BE PROVIDED AS SPECIFIED IN THE TECHNICAL SPECIFICATION No. 13 - FLOW CONTROL STRUCTURE



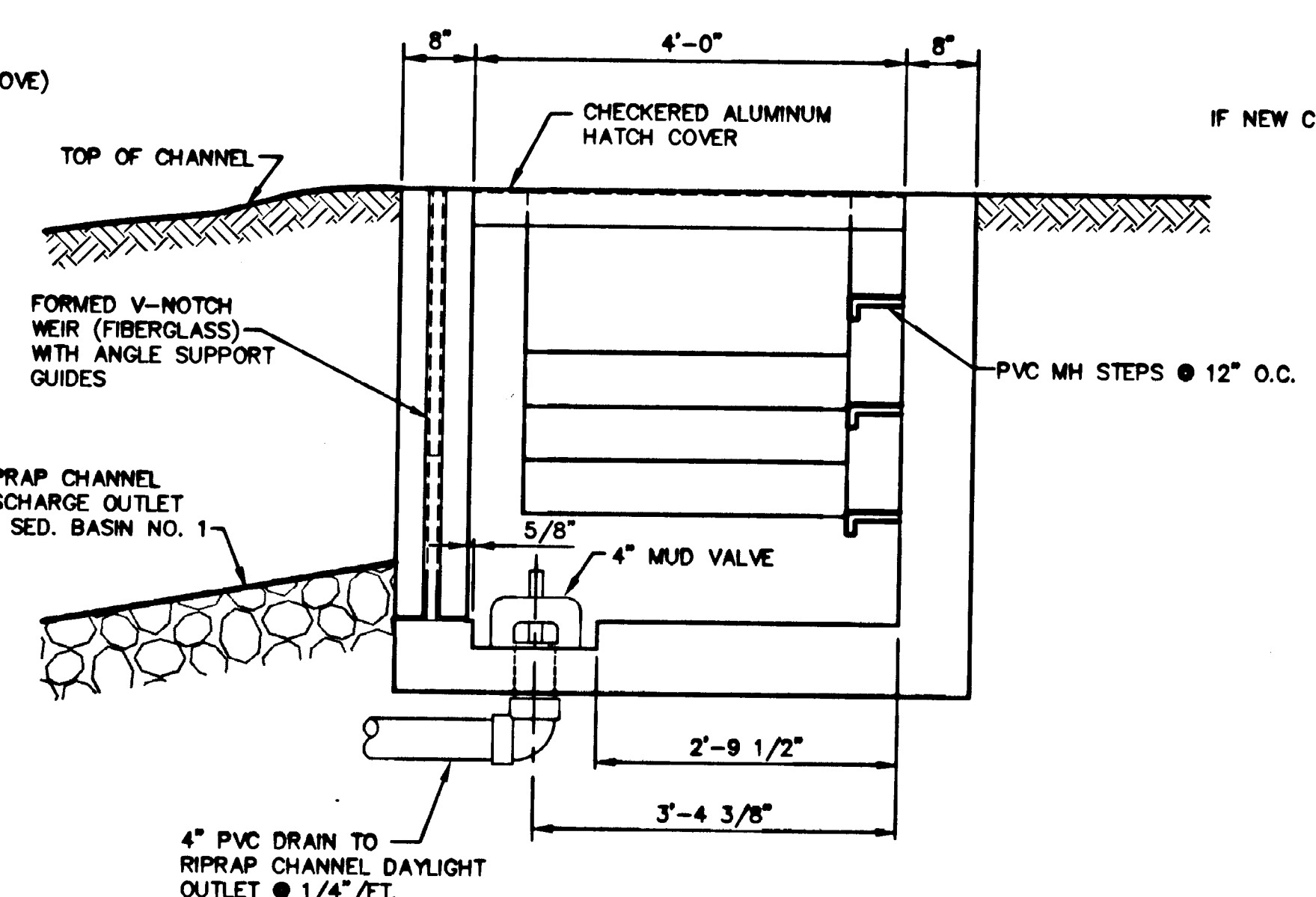
**6" CLEANOUT DETAIL**



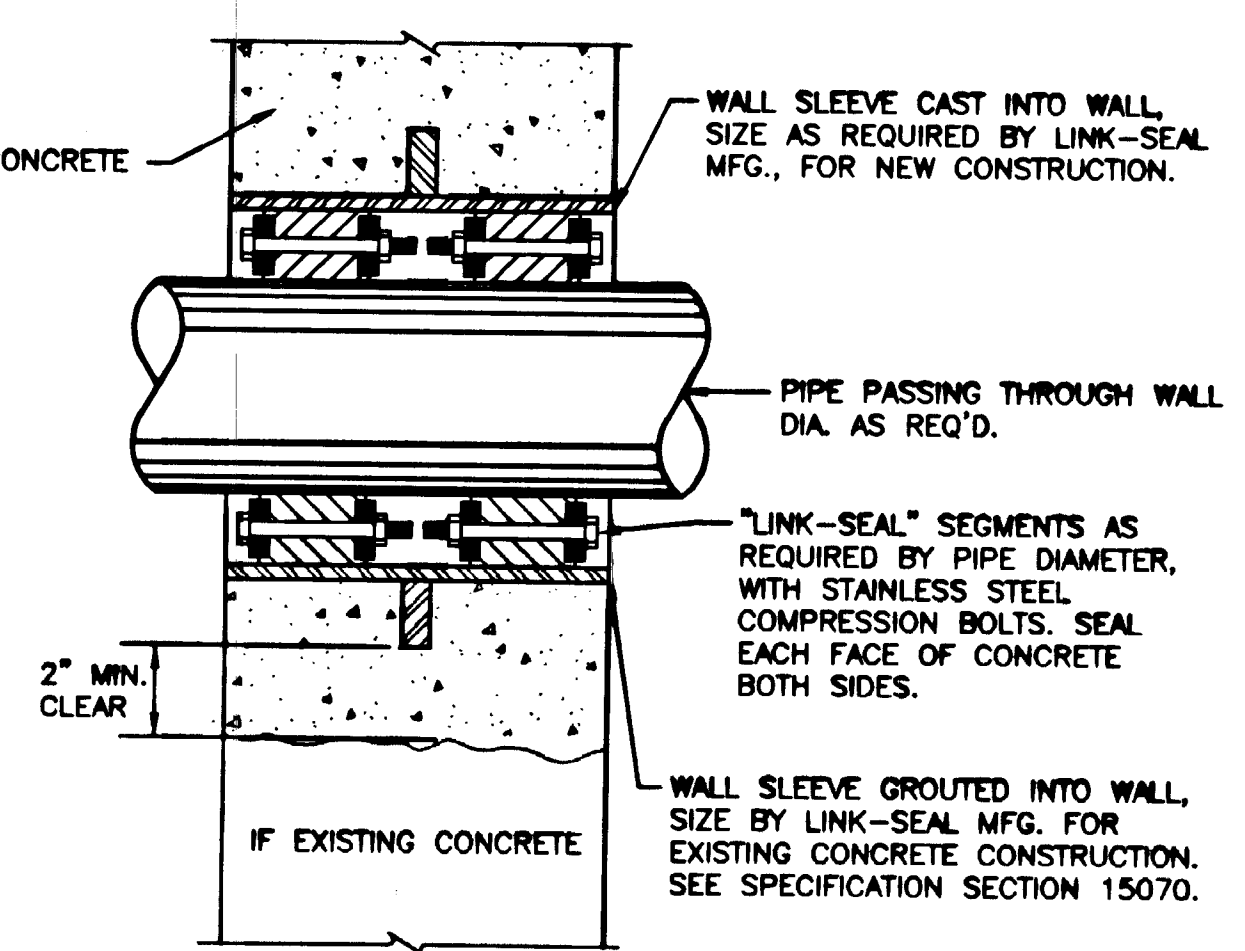
**10" CLEANOUT DETAIL**



OVEN RUN AND ABATEMENT PROJECT  
FLOW CONTROL STRUCTURE  
**PLAN**



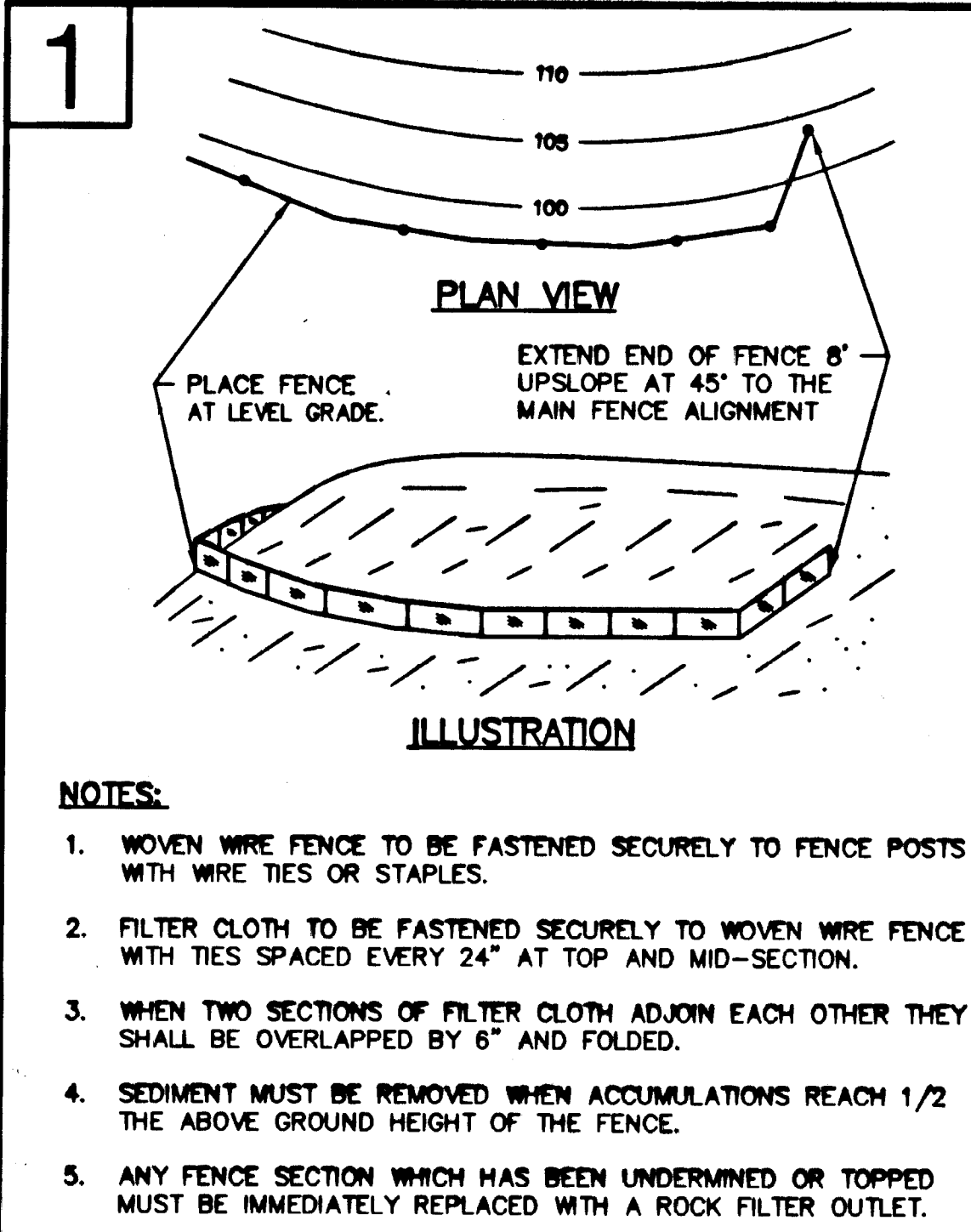
OVEN RUN AND ABATEMENT PROJECT  
FLOW CONTROL STRUCTURE  
**SECTION A-A**



- NOTES:
1. WALL SLEEVE MATERIAL SHALL BE SCHEDULE 40 STEEL. ASTM A53 REFERENCE SPECIFICATION SECTION 15070
  2. OPTION FOR EXISTING CONCRETE CONSTRUCTION: CORE DRILL CONCRETE, DIAMETER SIZE AS REQUIRED BY LINK SEAL MFG.

**TYPICAL PIPE PENETRATION THROUGH SLAB OR WALL**

NO.	DATE	REVISION	APR.
SUBMITTED: <i>[Signature]</i>			
APPROVED: <i>[Signature]</i>			
BUREAU OF ABANDONED MINE RECLAMATION			
COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL PROTECTION			
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SHADE TOWNSHIP SOMERSET COUNTY			
<b>GD&amp;F</b>		OWEN DOBSON & FOREMAN <i>[Signature]</i>	
<b>DETAILS</b>			
DRAWN BY: JMS/AM	DATE: 5/18/08	DRAWING NO.:	
CHECKED BY: BCJ/AM	SCALE: NO SCALE	<b>9 OF 10</b>	

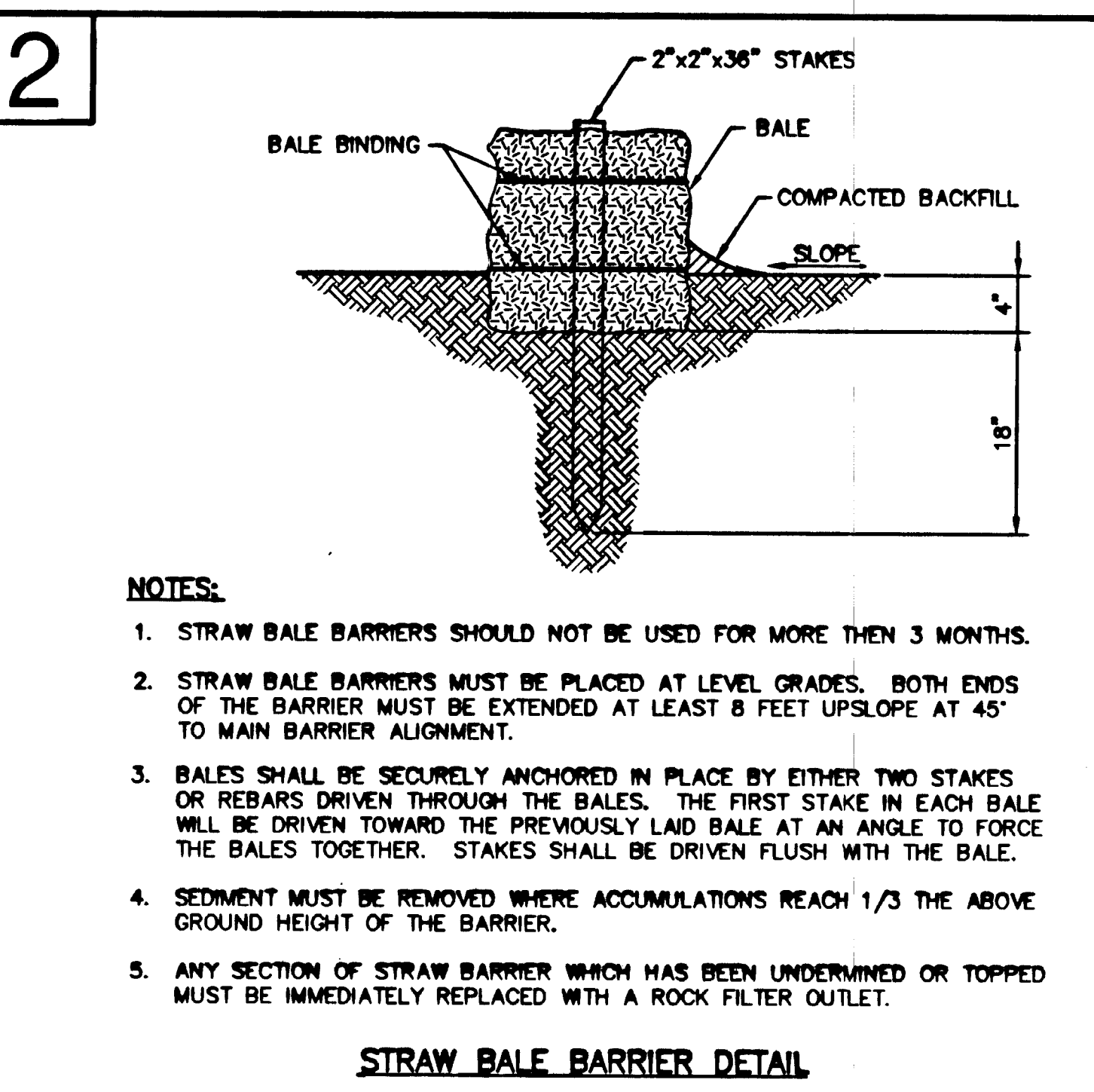
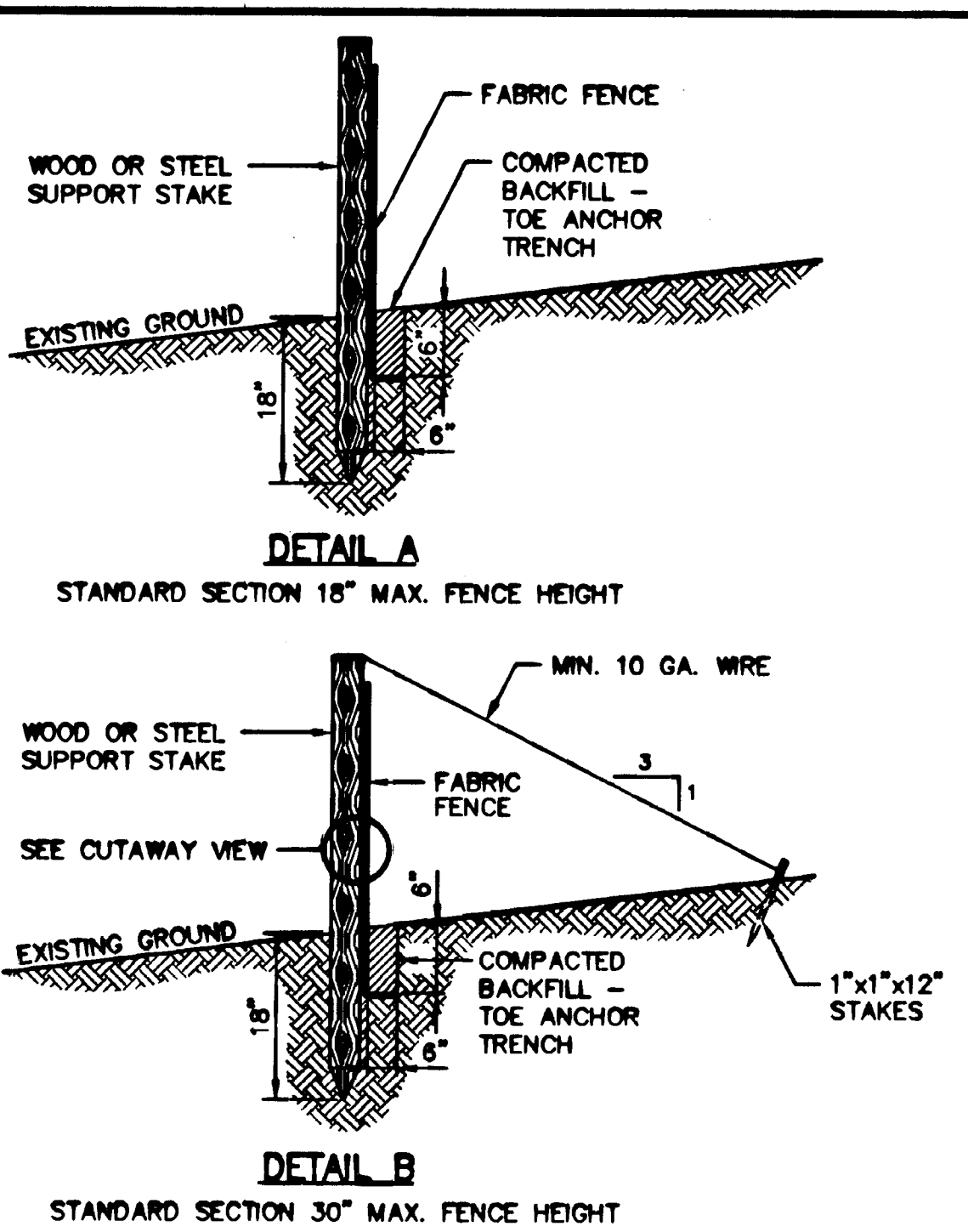


**REINFORCEMENT MESH**  
INDUSTRIAL POLYPROPYLENE OR STEEL MESH W/ 6" MAX. OPENING. STEEL MESH SHALL BE 4 GA. MIN.

**CUTAWAY VIEW**

**LIST OF MATERIALS:**  
POSTS: STEEL EITHER T OR U TYPE OR 2" HARDWOOD AT MAX. 8' SPACING  
FENCE: WOVEN WIRE, 14 GAUGE (MIN.) 6" MAX. MESH OPENING  
FILTER CLOTH: FILTER X, MIRAF 100 X, STABILINKA T140N OR EQUAL  
PREFABRICATED UNIT: GEOFAB, ENVIROFENCE, OR EQUAL

**FILTER FABRIC FENCE INSTALLATION DETAILS**



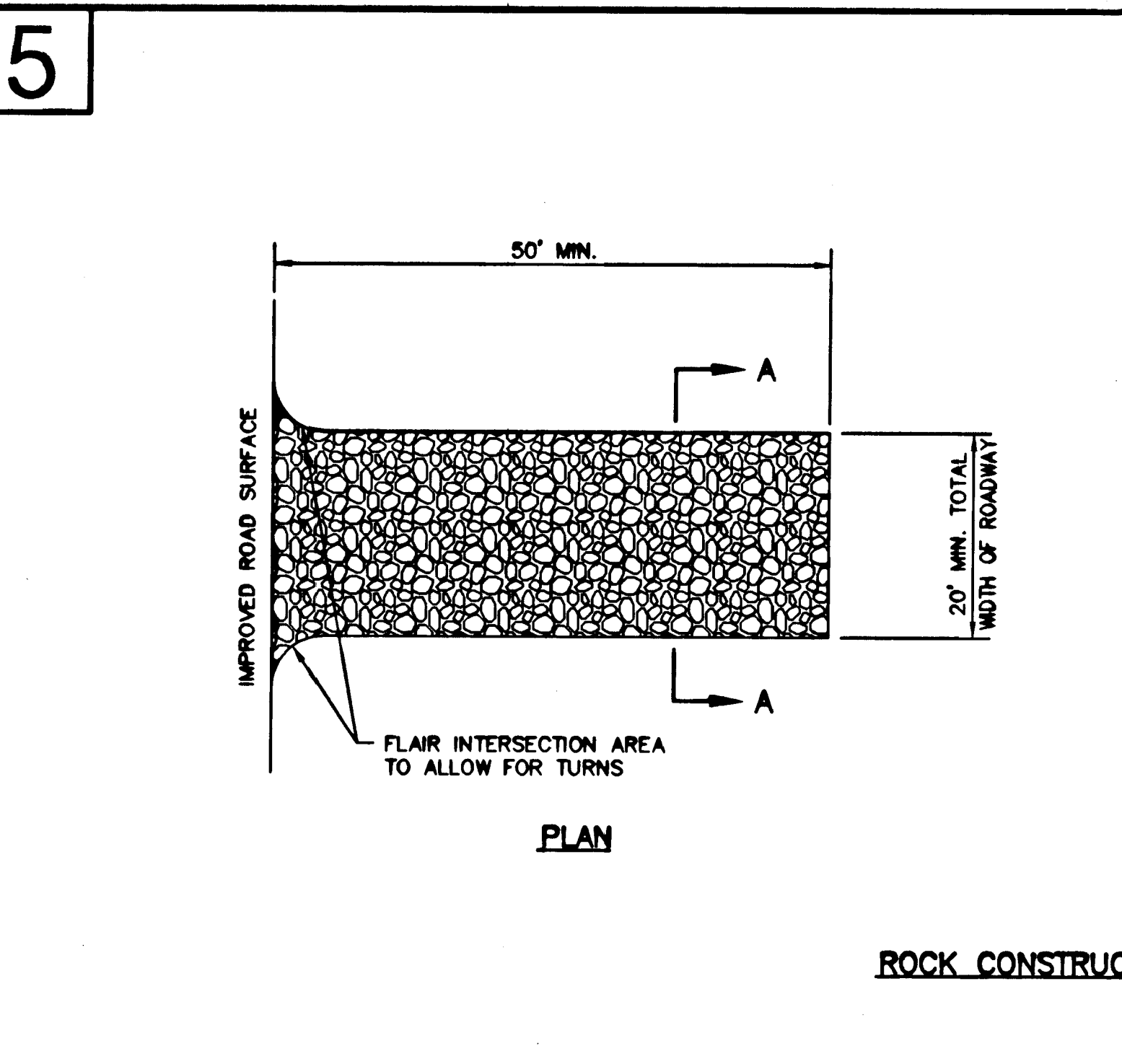
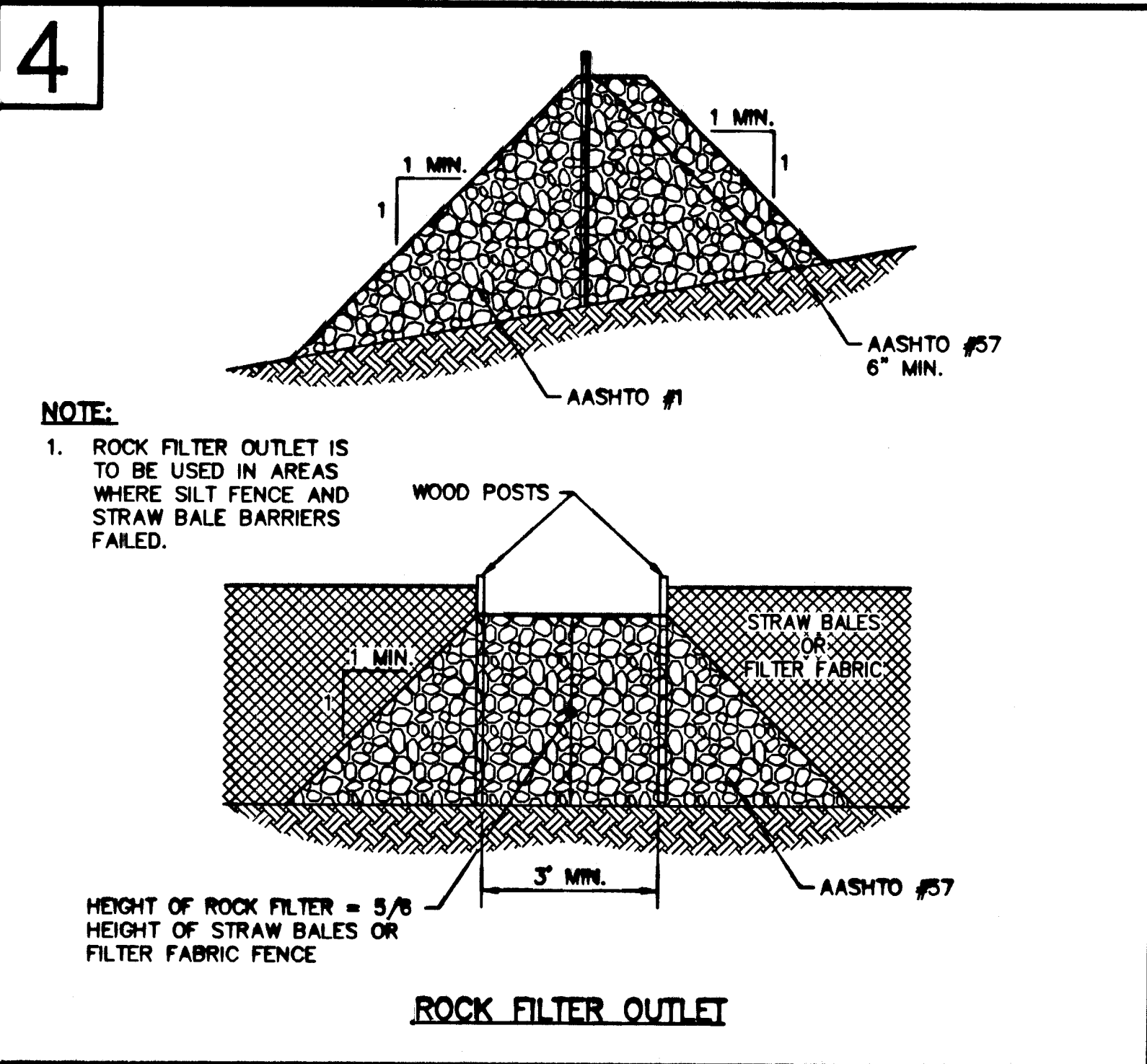
**NOTES:**

- STRAW BALE BARRIERS SHOULD NOT BE USED FOR MORE THAN 3 MONTHS.
- STRAW BALE BARRIERS MUST BE PLACED AT LEVEL GRADES. BOTH ENDS OF THE BARRIER MUST BE EXTENDED AT LEAST 8 FEET UPSLOPE AT 45° TO MAIN BARRIER ALIGNMENT.
- BALES SHALL BE SECURELY ANCHORED IN PLACE BY EITHER TWO STAKES OR REBARS DRIVEN THROUGH THE BALES. THE FIRST STAKE IN EACH BALE WILL BE DRIVEN TOWARD THE PREVIOUSLY LAID BALE AT AN ANGLE TO FORCE THE BALES TOGETHER. STAKES SHALL BE DRIVEN FLUSH WITH THE BALE.
- SEDIMENT MUST BE REMOVED WHERE ACCUMULATIONS REACH 1/3 THE ABOVE GROUND HEIGHT OF THE BARRIER.
- ANY SECTION OF STRAW BARRIER WHICH HAS BEEN UNDERMINED OR TOPPED MUST BE IMMEDIATELY REPLACED WITH A ROCK FILTER OUTLET.

**NOTES:**

- THE FILTER BAG SHOULD TRAP PARTICLES LARGER THAN 130 MICRONS.
- THE DESIGNED MAXIMUM PUMPING RATE FOR THE FILTER BAG MUST NOT BE EXCEEDED.
- THE FILTER BAG AND TRAPPED SEDIMENT MUST BE DISPOSED OF PROPERLY.
- THE FILTER BAG SHOULD NOT BE PLACED ON ANY SLOPE GREATER THAN 5% AND MUST BE PLACED ON WELL VEGETATED AREA.

**PUMPED WATER FILTER BAG**

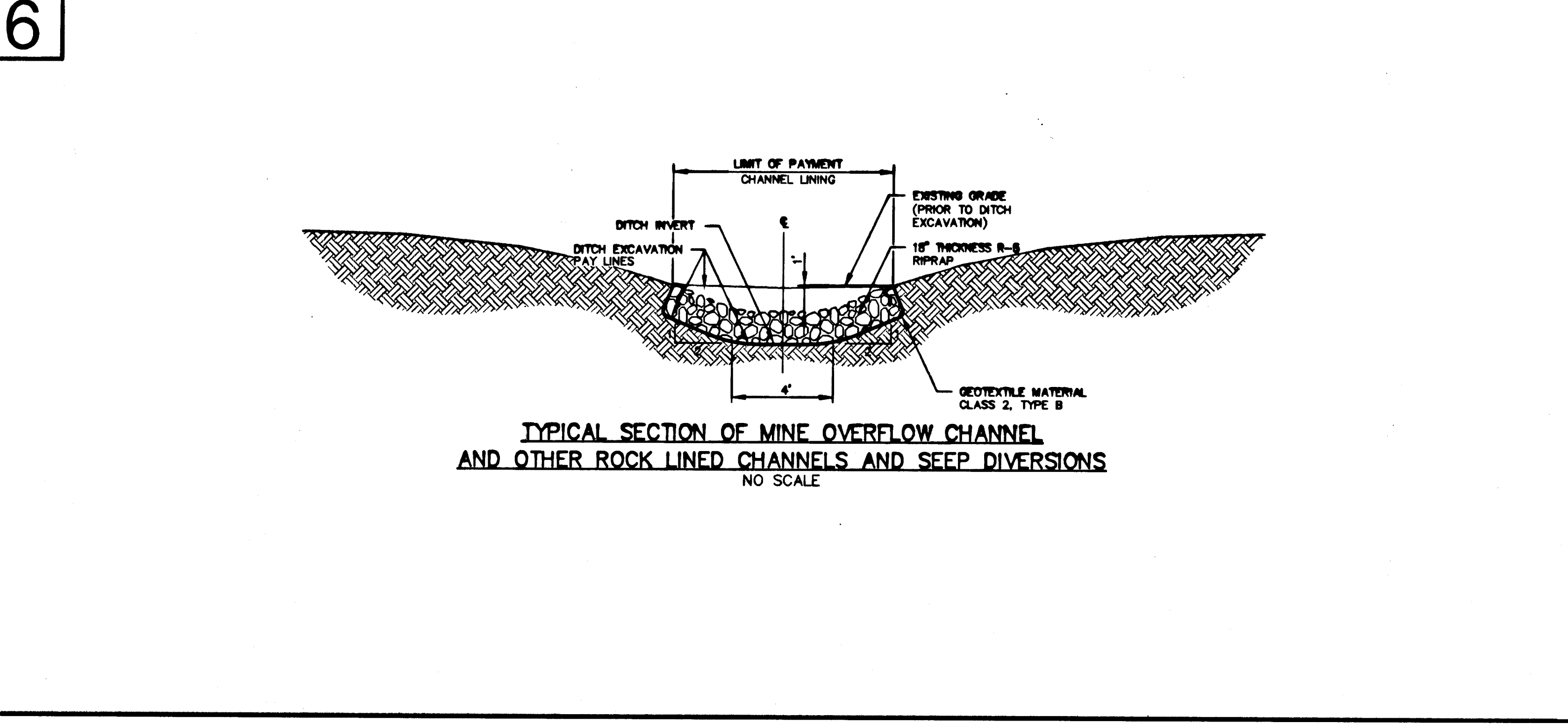


**NOTES:**

- ROCK CONSTRUCTION ENTRANCES WILL BE CONSTRUCTED TO THE MINIMUM WIDTH, LENGTH AND THICKNESS DIMENSIONS SHOWN.
- ROCK WILL BE AASHTO NUMBER 1 AS SPECIFIED IN SECTION 703.2 OF PENNDOT PUBLICATION 408.
- THE THICKNESS OF THE ROCK CONSTRUCTION ENTRANCE SHALL BE CONSTANTLY MAINTAINED TO THE SPECIFIED DIMENSIONS BY ADDING ROCK. A STOCK PILE OF ROCK MATERIAL WILL BE MAINTAINED ON THE SITE FOR THIS PURPOSE. AT THE END OF EACH CONSTRUCTION DAY, ALL SEDIMENT DEPOSITED ON PUBLIC ROADWAYS, WILL BE REMOVED AND RETURNED TO THE CONSTRUCTION SITE. WASHING OF THE ROADWAY WITH WATER IS NOT PERMITTED.

**EROSION AND SEDIMENTATION CONTROL PLAN NOTES**

- Only limited disturbance will be permitted to provide access to sediment traps and interceptor channels for grading and contouring berms to construct these controls.
- Erosion and sedimentation controls must be constructed, stabilized, and functional before site disturbance within the tributary areas of these controls.
- 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.
- Vehicle and equipment shall use the rock construction entrances. Site access shall not be allowed from other locations.
- Stockpile heights must not exceed 35 feet. Stockpile slopes must be 2:1 or flatter.
- Any disturbed area on which activity has ceased and which will remain exposed for more than 20 days must be stabilized immediately. During non-germinating periods, mulch must be applied at the recommended rates. Disturbed areas which are not at finished grade and which will be restabilized within 1 year may be stabilized in accordance with temporary seeding specifications. Disturbed areas which are either at finished grade or will not be restabilized within one year must be stabilized in accordance with permanent seeding specifications.
- Diversions, channels, sedimentation basins, sediment traps and stockpiles must be stabilized immediately.
- Hay or straw mulch must be applied at rates of at least 3.0 tons per acre.
- Until the site is stabilized, all erosion and sedimentation must be maintained properly. Maintenance must include inspections of all erosion and sedimentation control after each runoff event and on a weekly basis. All preventive and remedial maintenance work, including clean out, repair, replacement, regrading, reseeding, remulching, and resetting, must be performed immediately.
- At streams, (15' min.) stream bank buffer areas should be maintained. On buffers, clearing, sod disturbances, excavation, and equipment traffic should be minimized. Activities such as stacking cut logs, burning cleared brush, discharging rainwater from trenches, welding pipe sections, refueling and maintaining equipment should be accomplished outside of buffers.
- The Contractor is notified of the requirement for the use of jute matting or an equal substitute on all slopes that meet or exceed a 2 to 1 slope.



**SEEDING MIXTURES**

- TEMPORARY (FORMULA E):**  
SPECIES: Annual Ryegrass  
% PURE LIVE SEED: 95%  
APPLICATION RATE: 50 LB./ACRE  
FERTILIZER TYPE: 10-10-10  
FERTILIZER APPL. RATE: 450 LB./ACRE  
LIMING RATE: 1/4 T./ACRE  
MULCH TYPE: Straw  
MULCHING RATE: 3 T./ACRE
- PERMANENT (TYPE 1):**  
SPECIES: Tall Fescue (Johnston's, Fern)  
% PURE LIVE SEED: 95%  
% BY WEIGHT: 70%  
SPECIES: Red Top ("Common Seed")  
% PURE LIVE SEED: 92%  
% BY WEIGHT: 10%  
SPECIES: Birdfoot Trefoil (Empire Var.)  
% PURE LIVE SEED: 95%  
% BY WEIGHT: 20%  
APPLICATION RATE: 50 LB./ACRE  
FERTILIZER TYPE: 10-20-20  
FERTILIZER APPL. RATE: 600 LB./ACRE  
LIMING RATE: 4 T./ACRE  
MULCH TYPE: Straw  
MULCHING RATE: 3 T./ACRE  
ANCHOR MATERIAL: Emulsified Asphalt  
ANCHORING METHOD: Spray  
RATE OF ANCHOR MATERIAL APPL: 150 GAL./ACRE  
SEEDING SEASON DATES: March 15 - June 1, August 1 - October 15
- PERMANENT - STEEP SLOPE GREATER THAN 3 TO 1 (TYPE 2):**  
SPECIES: Tall Fescue (Johnston's, Fern)  
% PURE LIVE SEED: 95%  
% BY WEIGHT: 50%  
SPECIES: Crown Vetch (Perngill Var.)  
% PURE LIVE SEED: 95%  
% BY WEIGHT: 50%  
APPLICATION RATE: 50 LB./ACRE  
FERTILIZER TYPE: 10-20-20  
FERTILIZER APPL. RATE: 600 LB./ACRE  
LIMING RATE: 4 T./ACRE  
MULCH TYPE: Straw  
MULCHING RATE: 3 T./ACRE  
ANCHOR MATERIAL: Jute Matting  
ANCHORING METHOD: Staples  
RATE OF ANCHOR MATERIAL APPL: N/A  
SEEDING SEASON DATES: March 15 - June 1, August 1 - October 15

NO. DATE REVISION APR.

SUBMITTED

PROFESSIONAL *Mark V. Glenn*

APPROVED

BUREAU OF ABANDONED MINE RECLAMATION

COMMONWEALTH OF PENNSYLVANIA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION

CONTRACT NO. AMD 56 (2524) 102.1

AMD ABATEMENT PROJECT  
KOONTZTOWN (OVEN RUN)  
SHADE TOWNSHIP SOMERSET COUNTY

GD&F  
OWEN DOBSON & FOREMAN INC.  
Consulting Engineers

EROSION & SEDIMENTATION CONTROL DETAILS

DRAWN BY: JMB DATE: 5/29/98 DRAWING NO.: 10 OF 10

CHECKED BY: JMB DATE: 5/29/98 SCALE: AS SHOWN