1996-01

MARYLAND DEPARTMENT OF THE ENVIRONMENT
WATER MANAGEMENT ADMINISTRATION
MINERALS, OIL & GAS DIVISION, E-2
TAWES STATE OFFICE BUILDING
ANNAPOLIS, MARYLAND 21401

PERMIT NO. 96-SP-0500

CHECK ONE:

[X] ORIGINAL [ ] RENEWAL [ ] MODIFICATION [ ] TRANSFER

APPLICATION FOR PERMIT TO SURFACE MINE

1. Name of Operator
   CHESAPEAKE TERRACE, INC.
2. Current License No.
   90 -SL- 0029
3. Business Mailing Address
   2900 LINDEN LANE
   SUITE 300
   SILVER SPRING, MD. 20910
4. Business Telephone No.
   (301) 495-1520
5. Name of Operation (for example: #1 pit or Smith Tract)
   PLUMMER TRACT
6. Location of Operation
   a) County: ANNE ARUNDEL
      (MD. COORDS. N440,000, E880,000)
   b) Travel Directions:
      1600' WEST OF BRAGERS STATION ROAD ON PATUXENT ROAD
7. Name and Address of Surface Land Owner(s)
   CHESAPEAKE TERRACE, INC.
   2900 LINDEN LANE
   SUITE 300
   SILVER SPRING, MD. 20910
8. Name and Address of Mineral Owner(s)
   CHESAPEAKE TERRACE, INC.
   2900 LINDEN LANE
   SUITE 300
   SILVER SPRING, MD. 20910

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9. Commercial Name of Mined Products and Geological Description of Mineral Deposit.

SAND & GRAVEL; CONSTRUCTION AGGREGATES

10. Date Mine Opened

1996

Probable Mine Closure Date

2001

11. Acreage Affected

a. Total Acreage 42.0 Ac.±

b. Additional Acreage applied for -0-

12. Present uses of land to be mined

VACANT, SCRUB WOODLANDS

COMPLETE ITEM 13 ONLY IF APPLYING FOR A PERMIT MODIFICATION

N/A

13. Reasons for Requesting Modifications:

Change in planned land use [ ] Increased land area [ ]

Change in schedule of reclamation [ ] Other [ ]

Change in reclamation practices [ ] Decreased land area [ ]

Describe Reasons: _____

(Continued on next page)

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RENEWAL APPLICATION

1) $12 x _____ acres ($1,000 MAXIMUM ANNUAL FEE):

TOTAL = $ N/A

TRANSFER APPLICATION

1) Transfer Fee: $500

$ _____

2) Right of Entry Agreement Recording Fee: $22.50

+ _____

TOTAL = $ N/A

TOTAL REMITTED $ 1,786.50

Application and Recording Fees - Source Code 02.67.03
Special Reclamation Fund Fees - Source Code 02.67.04

I hereby certify that all of the information contained in the Application for Permit to Surface Mine is true and correct to the best of my knowledge and that any willful misrepresentation of facts is a violation of Title 15, Subtitle 808 of the Environment Law, Annotated Code of Maryland as amended and may be cause for penalty provided in aforesaid section.

TYPEWRITTEN NAME AND TITLE
WARREN E. HALLE
PRESIDENT & REGISTERED AGENT

DRAFT

ORIGINAL SIGNATURE
Warren E Halle

DATE
2/26/96

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5) Proposed use(s) of the affected acreage following completion of mining (Check all that apply)

[X] Vegetated Open Space [ ] Agriculture

[ ] Permanent Impoundment with Vegetated Side Slopes

[ ] Forest

[X] Other - describe thoroughly POSSIBLE RUBBLE LAND-FILL

6) a. What is the existing zoning classification for the site? RA WITH SPECIAL EXCEPTION FOR MINING (S-209-90)

b. Is mineral extraction an accepted land use for this zoning classification?

[X] YES [ ] NO

c. Have all zoning approvals been obtained?

[X] YES [ ] NO

If NO, explain.

d. Do the future intended uses given in Item 5 comply with the present zoning?

[X] YES [ ] NO

If NO, explain.

7) Will the proposed mining site:

a. Be located within 1,000 feet of any tidal water or area periodically covered by tidal waters?

[ ] YES [X] NO

b. Be located within 25 feet of any stream containing flowing water at some time during the year?

[ ] YES [X] NO

c. Be located within 25 feet of a non-tidal wetland or area that may frequently hold water?

[ ] YES [X] NO

d. Require the pumping of ground water or surface water?

[ ] YES [X] NO

If yes, other approvals may be required. Please list any other permit approvals under item 18 on page 22 of this application.

8. Will a wash plant and or wash water settling pond(s) be included in the permit area?

[ ] Yes [X] No

NOTE: If "YES", pond approval for all wash water ponds must be obtained before this permit can be issued.

If "YES", provide the following information for each impoundment:

a) What is the drainage area contributing to each impoundment?

(Continued on next page)

b) Will the impoundment(s) be dugout or embankment type, or a combination of the two?

N/A

c) What are the elevations of the principle spillway(s) and emergency spillway(s)?

Principle Spillway N/A

Emergency Spillway N/A

d) What will the surface area, minimum and maximum depths of each impoundment be?

Surface Area N/A

Minimum Depth N/A

Maximum Depth N/A

e) State the proposed water surface elevation, and how this elevation was determined.

N/A

f) Indicate the source of make-up water to the plant:

N/A

g) Is a Water Appropriation Permit required?

N/A

II. MINING METHOD

9) Indicate the type(s) of mining equipment to be used:

[ ] Dredge

[ ] Power Shovel

[ ] Hydraulic Excavator

[X] Self-Loading Pan

[X] Conventional Trucks

[ ] Dragline

[X] Other (Specify) BACKHOE

[X] Bulldozer

[X] Conveyor Belt

[ ] Pipeline

[ ] "Off Road" Trucks

[X] Front-End Loader

10) Fully describe the mining operation. Include in the mining sequence, a description of site preparation, sequence of installation and maintenance of sediment controls, mining direction, depth, number of lifts, number of acres disturbed at one time, and proposed reclamation.

If this is NOT an original application, describe current condition(s) of all phases of the operation.

PRIOR TO COMMENCEMENT OF MINING, THE HAUL ROAD FROM CONWAY ROAD TO THE EXISTING HAUL ROAD WILL BE CONSTRUCTED. THE NECESSARY SEDIMENT CONTROLS WILL BE INSTALLED IN ACCORDANCE TO THE APPROVED SEDIMENT CONTROL PLANS. THE OFFICE AND SCALE AREA WILL BE CONSTRUCTED AND SILT FENCE INSTALLED AROUND THE PERIMETER OF THE WORK AREA. EARTH BERMS AND STONE OUTLET STRUCTURES WILL BE CONSTRUCTED BEFORE MINING BEGINS. THE SEDIMENT TRAP WILL BE CONSTRUCTED BEFORE THE START OF THE INITIAL MINING OPERATION BEGINS. THE EARTH BERMS WILL DIRECT RUNOFF INTO THE SEDIMENT TRAP INITIALLY AND THEN INTO THE MINING EXCAVATION.

MINING WILL START AT THE EAST END OF THE SITE AND PROCEED IN A WESTERLY DIRECTION. TREES WILL BE REMOVED AND EITHER WIND-ROWED ON SITE OR REMOVED TO A RUBBLE LANDFILL (STUMPS). OVER BURDEN WILL THEN BE REMOVED BY FRONT END LOADER AND BACKHOE AND TRANSPORTED FROM THE SITE FOR PROCESSING. SOME MATERIAL MAY BE PROCESSED (DRY SCREEN) ON SITE AND SOLD DIRECTLY. MINING WILL OCCUR IN ONE LIFT WITH NO MORE THAN 10 ACRES DISTURBED AT ONE TIME. WHEN MINING IS COMPLETE THE SEDIMENT BASIN SHALL BE CONSTRUCTED. AFTER THE SEDIMENT BASIN HAS BEEN CONSTRUCTED, RECLAMATION SHALL PROCEED TO THE WEST. EARTH BERMS SHALL BE FIELD ADJUSTED SO THAT RUNOFF WILL BE DIRECTED INTO THE SEDIMENT BASIN.

NOTE: Information concerning the nature and depth of the material to be mined is not public information and will be kept CONFIDENTIAL.

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III. SITE PREPARATION

11) Describe procedures for providing access to the mining area - include length, width, construction material, and maintenance of entrance roads as well as haul roads.

HAUL ROADS SHALL BE ESTABLISHED (ORIGINATING FROM CONWAY ROAD), THE EXISTING HAUL ROAD WILL BE UTILIZED ON THE ADJACENT PROPERTY OWNED BY CHESAPEAKE TERRACE, INC. TO THE MINING SITE. ALL HAUL ROADS SHALL BE MAINTAINED FOR THE DURATION OF THE MINING OPERATION.

a) Indicate method(s) by which mud and dust will be controlled on-site:

[X] Water Truck [ ] Power Broom & Scraper

[ ] Spray Bar [X] Other CALCIUM CHLORIDE APPLICATION

NOTE: MUD OR DUST TRACKED ONTO PUBLIC ROADS SHALL ONLY BE CLEANED BY BROOM OR SCRAPER. THE MATERIAL REMOVED FROM THE PUBLIC ROADS SHALL BE RETURNED TO THE ACTIVE PIT. NO MATERIAL SHALL BE WASHED FROM THE ROADS.

b) Indicate the methods for removal and disposal of trees and brush: (Check all that apply)

[X] Taken to an MDE approved Disposal Site

[X] Wind-rowed on site within permit boundary

[X] Burned, after obtaining proper burning permits

[ ] Other (describe)_____

c) State the number of acres cleared grubbed & stripped of topsoil & overburden ahead of mining:

MAXIMUM OF 10 ACRES CLEARED AHEAD OF MINING

d) State the thickness (in. or ft.) of topsoil/subsoil on-site:

3"-12" TOPSOIL

e) State the amount of topsoil/subsoil (in cubic yds.) to be conserved for reclamation:
30,000 C.Y. ± (DEPTH 0.50'±)

Describe the removal and storage of the topsoil/subsoil on site. If there is little or no topsoil on-site, describe the alternative measures that will be used in lieu of topsoil during reclamation to provide a suitable growing medium.

TOPSOIL TO BE STRIPPED WITH SELF-LOADING PANS. TOPSOIL TO BE STOCKPILED WITHIN THE PROPOSED LIMIT OF DISTURBANCE. STOCKPILED MATERIAL INTENDED TO REMAIN UNDISTURBED FOR LONGER THAN 14 DAYS WILL BE TEMPORARILY STABILIZED WITH SEED AND MULCH.

f) State the thickness (in. or ft.) of Overburden on-site: FEW INCHES TO SEVERAL FEET

State the amount of overburden (in cu. yds) to be conserved for reclamation:
60,000 C.Y. ±

Briefly describe material:

VERY FINE SANDS, SILTS WITH TRACE OF CLAY

Describe removal and/or storage of overburden on site:

OVERBURDEN TO BE STRIPPED WITH SELF-LOADING PANS AND THEN REMOVED BY FRONT END LOADER AND BACKHOE AND TRANSPORTED FROM THE SITE FOR PROCESSING. SOME MATERIAL MAY BE PROCESSED (DRY SCREEN) ON SITE AND SOLD DIRECTLY.

(Continued on next page)

12) Describe how the mining operation will be screened from public view:

a. Will visual screening berms be constructed?

[ ] YES [X] NO

If yes, provide the following information.

Berm Dimensions;
Top Width N/A

Side Slope N/A

Height N/A

b. Buffer Strip(s)-state width, whether there is existing vegetation or if additional vegetation will be planted.

EXISTING WOODED AND VEGETATED BUFFER STRIPS. NO ADDITIONAL PLANTINGS AREA PROPOSED.

c. Other methods of screening:

SITE ENTRANCE IS HEAVILY VEGATATED; SERVICE FACILITIES WILL BE LOCATED AT LEAST 800' FROM PATUXENT ROAD.

13) Describe the methods proposed for protection of adjacent properties, including waters of the State, and adjacent surface resources, from runoff, sediment, and other conditions that would be hazardous to fish, plant, or animal life.

ALL NECESSARY SEDIMENT CONTROLS SHALL BE INSTALLED AND MAINTAINED AS REQUIRED. BUFFER AREAS TO BE MAINTAINED ALONG THE HYDIC SOILS AREA AND DRAINAGE DITCHES. FENCING WILL BE CONSTRUCTED AS REQUIRED BY THE ZONING SPECIAL EXCEPTION.

14) Describe methods proposed for providing safety to the public and adjoining property(ies) as mining progresses and how the site will be left at the end of each working day.

a) Provisions to prevent slumps, cave-offs, or landslides:

SLOPES AT PERIMETER OF EXCAVATION SHALL BE NO STEEPER THAN 1:1 DURING MINING ALTHOUGH ACTIVE FACES MAY BE VERTICAL. RECLAMATION TO QUKKLY FOLLOW EXTRACTION TO MINIMIZE SLOPES.

(Continued on next page)

b) Provisions to provide safety around the upper perimeter of all excavations or highwalls (i.e. fencing, warning signs, safety benches, etc.):

FENCING AND BUFFERS TO BE PROVIDED.

c) Provisions to provide safety if the site will have impounded water during mining:

SEDIMENT BASIN IS LOCATED AT LEAST 1000' FROM ANY EXISTING DWELLING. THE BASIN IS PROVIDED WITH A DEWATERING DEVICE.

IV. RECLAMATION OF THE SITE

15) a) Describe how the surface gradient will be restored to a surface suitable for the proposed land use after reclamation. Include specifications on the gradient as well as maximum and minimum final slopes.

FINAL GRADE TO BE GENTLY SLOPING FROM THE WEST TO EAST; MAXIMUM SLOPE SHALL BE 3:1 AT PERIMETER OF EXCAVATION. PROPER DRAINAGE TO BE MAINTAINED.

b) Will final slopes be constructed during mining or backfilled to proposed grades?

BACK-FILLED

c) If backfilled, describe how material will be compacted.

LAYERS LESS THAN 1' THICK SHALL BE PLACED AND THEN COMPACTED WITH VIBRATING ROLLERS AS REQUIRED.

d) State source(s) of backfill material:

ONSITE STOCKPILED OVERBURDEN AND TOPSOIL

e) If backfill will be brought in from off-site, briefly describe the material:

N/A

16) Will there be any metal, lumber, debris, old equipment, left after completion of mining?

[ ] YES [X] NO

a) If yes, specify intended use or method of disposal:

b) How will boulders and large rocks be disposed of after mining?

c) Will any permanent buildings be left following completion of the operation? If yes, list and give intended use for such buildings.

OFFICE, SCALE AND STORAGE LOT. THESE BUILDINGS ARE INTENDED TO SUPPORT A RUBBLE LANDFILL ON ADJACENT SITE

17) Manner and type of revegetation or other surface treatment of the affected areas. Must specify both cool and hot weather seed mixes. (Refer to Maryland Standards and Specification for Soil and Erosion Control for your Region).

A. Cool Weather Mix

1) Grasses (specify species)	Pounds/Acre
KENTUCKY 31 TALL FESCUE	100

2) Legumes (specify species)	Pounds/Acre
SERICEA LESPEDEZA	25

(Continued on next page)

3) Nurse Crop (fast-growing annual grass or grain)

	Pounds/Acre
RYE	1 Bushel /Acre
BARLEY	1 Bushel /Acre

B. Hot Weather Mix

1) Grasses (specify species)	Pounds/Acre
KENTUCKY 31 TALL FESCUE	100
WEEPING LOVE GRASS	100

2) Legumes (specify species	Pounds/Acre
SERICEA LESPEDEZA	25

3) Nurse Crop (fast-growing annual grass or grain)

	Pounds/Acre
RYE	1 Bushel /Acre
BARLEY	1 Bushel /ACRE

C. Trees (*NOTE* The Department of Natural Resources requires that grasses are established before trees can be planted.)

Species	Spacing	Acreage of Area Planted

Location(s) of trees: N/A

D. Amount of lime, fertilizer, and mulch to be applied per acre.

10-10-10 @ 1000 LBS./AC., LIME AND PULVERIZED DOLOMITIC LIMESTONE AT 4000 LBS./AC. MULCH AT 1½-2 TONS/AC.

E. Will sludge be applied?

[ ] YES [X] NO

If yes have all appropriate approvals been obtained?

N/A

F. Describe procedures for stabilizing the site if sludge application is delayed:

N/A

18) List all permits and approvals required by State and local regulatory agencies with regard to air and water pollution, sediment control, and zoning. Also, SUBMIT COPY of sediment and erosion control plans and permits approved by the local Soil Conservation District and written confirmation of appropriate zoning.

PERMIT OR APPROVAL	PERMIT NUMBER	DATE ISSUED	EXPIRATION DATE
MINIMUM REQUIREMENTS;			
1. Soil Conservation District	AASCD #353-30	2/9/96	2/9/99
2. Zoning	S-285-84	5/28/85	5/28/90*
OTHER PERMITS OBTAINED			

* CONTINUANCE GRANTED BY OFFICE OF PLANNING & ZONING

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19) Describe the provisions for prevention of noxious, odious, or foul water collection remaining in the affected areas during and after mining.

GROUNDWATER ENCOUNTERED TO BE DISCHARGED TO SEDIMENT BASIN

20) Describe the method of reclaiming settling ponds, wash ponds, sediment basins, and sediment traps. NOTE Sediment Control Structures (basins, traps, etc.) can be removed by the operator upon obtaining written approval from the Department of Natural Resources.

SEDIMENT BASIN TO BE DE-WATERED, MUCK REMOVED, RISER AND OUTFALL PIPE REMOVED. AREA TO BE GRADED AS SHOWN ON THE APPROVED SEDIMENT CONTROL PLANS AND VEGETATIVELY STABILIZED.

21) Will any stream channels or stream banks be disturbed by the mining operation?

[ ] YES [X] NO

If "yes", describe the method of restoration or establishment of stream channels and stream banks to a condition minimizing erosion, siltation, and other pollution.

22) Will permanent impoundments (ponds, lakes, sediment basins, etc.) be included in the final land form?

[ ] YES [X] NO

NOTE: If "YES", pond approval must be obtained before this permit can be issued.

If "YES", provide the following information for each impoundment:

a) What is the drainage area contributing to each impoundment?

N/A

b) Will the impoundment(s) be dugout or embankment type, or a combination of the two?

N/A

c) What are the elevations of the principle spillway(s) and emergency spillway(s)?

Principle Spillway N/A

Emergency Spillway N/A

d) What will the surface area, minimum and maximum depths of each impoundment be?

Surface Area N/A

Minimum Depth N/A

Maximum Depth N/A

e) State the proposed water surface elevation, and methods used to determine this elevation:

N/A

f) Indicate the major contributing source of water for each impoundment described above:
[ ] groundwater
[ ] surface water

N/A

23) Complete Table I: (see page 25)

For each item listed, fill in the number of acres and the expected starting date of construction for that item and the date which that item is expected to be removed or reclaimed.

I hereby certify that all information contained in the Mining and Reclamation Plan is true and correct to the best of my knowledge and that any willful misrepresentation of facts will be a violation of Title 15, Subtitle 808 of the Environment Law, Annotated Code of Maryland, as amended and may be cause for penalty provided in the aforesaid section.

By submission of this application I hereby accept the responsibility of conducting the operation in accordance with the approved Mining and Reclamation Plan and maps, and of satisfying the conditions of the permit.

Typewritten Name and Title WARREN E. HALLE
PRESIDENT

Original Signature Warren E Halle Date 2/26/96

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FEB 28 1996

MINERALS, OIL & GAS DIV.

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SCHEDULE FOR COMPLETION OF MINING AND RECLAMATION

Identification of How Lands Are To be Affected	No. Acres Within The Permitted Area	Expected Mining Dates (Month/Year)		Expected Reclamation Dates (Month/Year)	
		Construction Date	Removal Date	Date to Begin	Date to Complete
ACTIVE PIT	31.00 Ac. ±	5/96	5/00	6/00	5/01
HAUL ROADS	3.50 Ac ±	5/96	5/00	6/00	5/01
TOPSOIL STOCKPILE AREAS	1.00 Ac. ±	5/96	5/00	6/00	7/00
SEDIMENT CONTROL STRUCTURES	3.80 Ac ±	5/96	5/01	6/00	5/01
OFFICE-SHOP.	1.00 Ac ±	5/96	5/01	— *	— *
PLANT SITE	—	—	—	—	—
EQUIPMENT STORAGE	0.20 Ac. ±	5/96	5/00	5/00	5/01
WATERWAYS	—				
OVERBURDEN STOCKPILE AREAS	1.50 Ac. ±	5/96	5/00	5/00	7/00
REFUSE-DEBRIS STORAGE	—	—	—	—	—
OTHER (SPECIFY)	—	—	—	—	—
TOTAL ACRES (MUST EQUAL SIZE OF PERMIT)	42.00 Ac. ±				

* MAY BE LEFT IN PLACE TO SUPPORT FUTURE, ADJACENT RUBBLE LANDFILL

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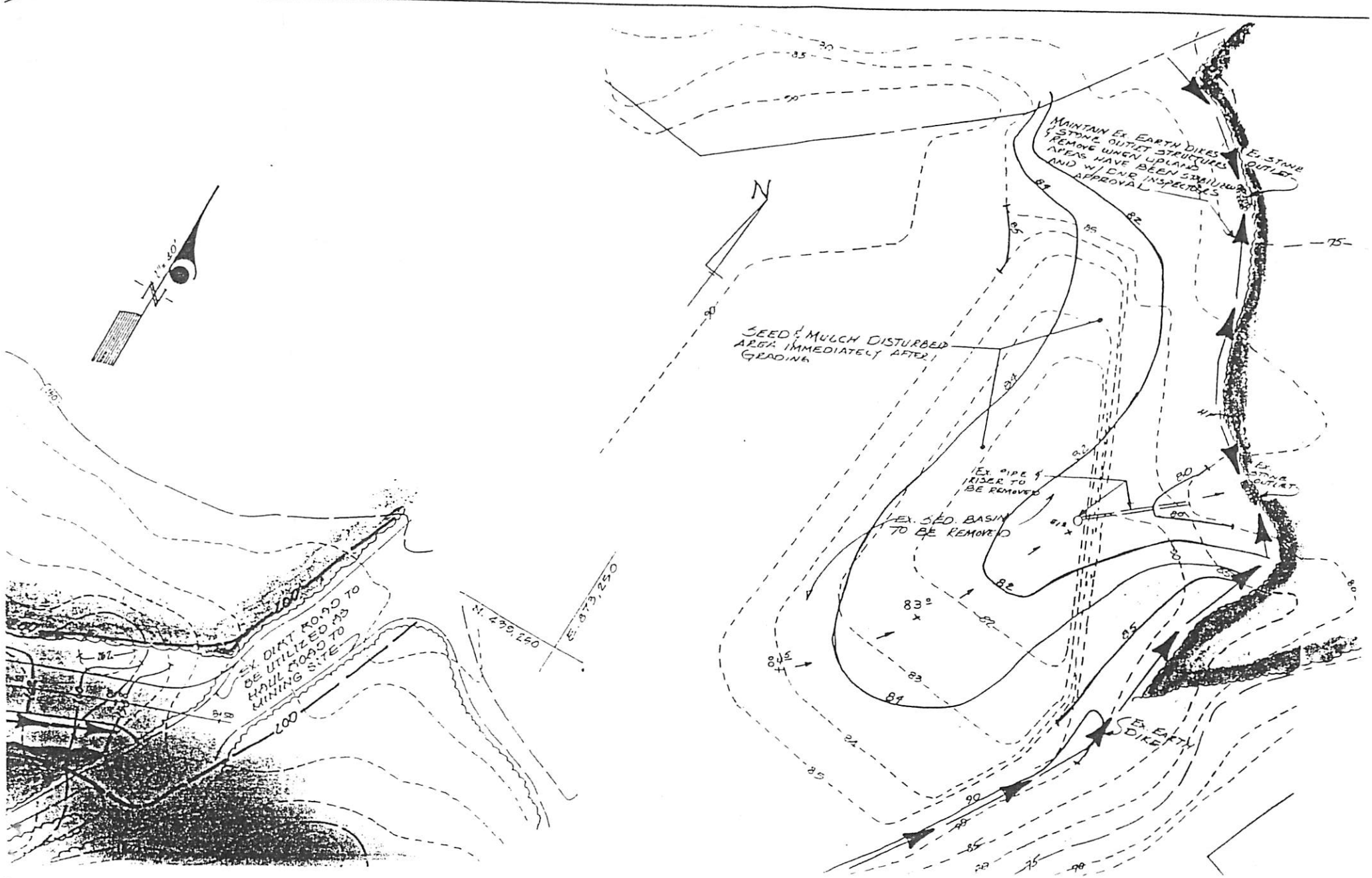
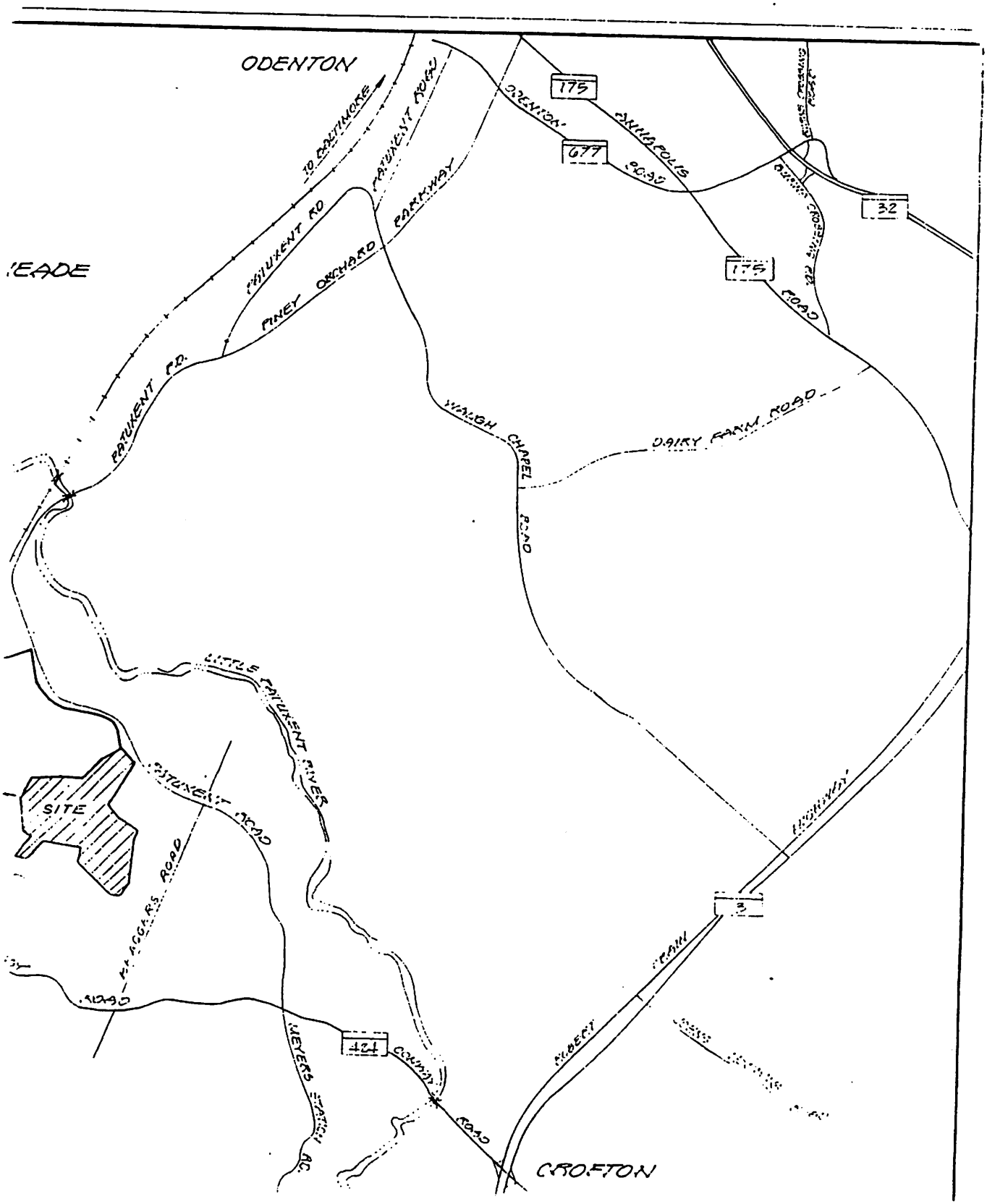
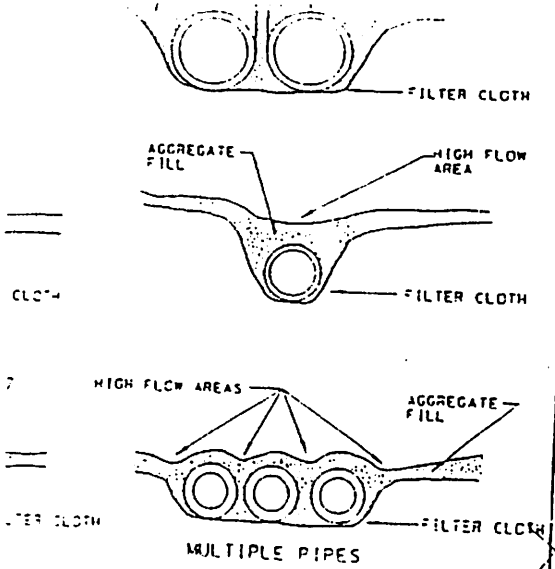

N
MAINTAIN EX. EARTH DIKES & STONE OUTLET STRUCTURES REMOVE WHEN UPLAND AREAS HAVE BEEN STABILIZED AND W/ DNR INSPECTOR'S APPROVAL
EX. STONE OUTLET
SEED & MULCH DISTURBED AREA IMMEDIATELY AFTER GRADING
EX. PIPE & RISER TO BE REMOVED
EX. SED. BASIN TO BE REMOVED
EX. STONE OUTLET
EX. EARTH DIKE
EX. DIRT ROAD TO BE UTILIZED AS HAUL ROAD TO MINING SITE
N. 239,660
E. 873,250

ICE MINING PLAN

NT DISTRICT ANNE ARUNDEL COUNTY, MARYLAND





PAGE	MARYLAND DEPARTMENT OF ENVIRONMENT
H - 39 - 13	WATER MANAGEMENT ADMINISTRATION

ARY ACCESS CULVERT

uction Specifications

Construction or removal of a temporary
e permitted between October 1 through
1 and Class IV trout waters or between
15 for non-trout waterways.

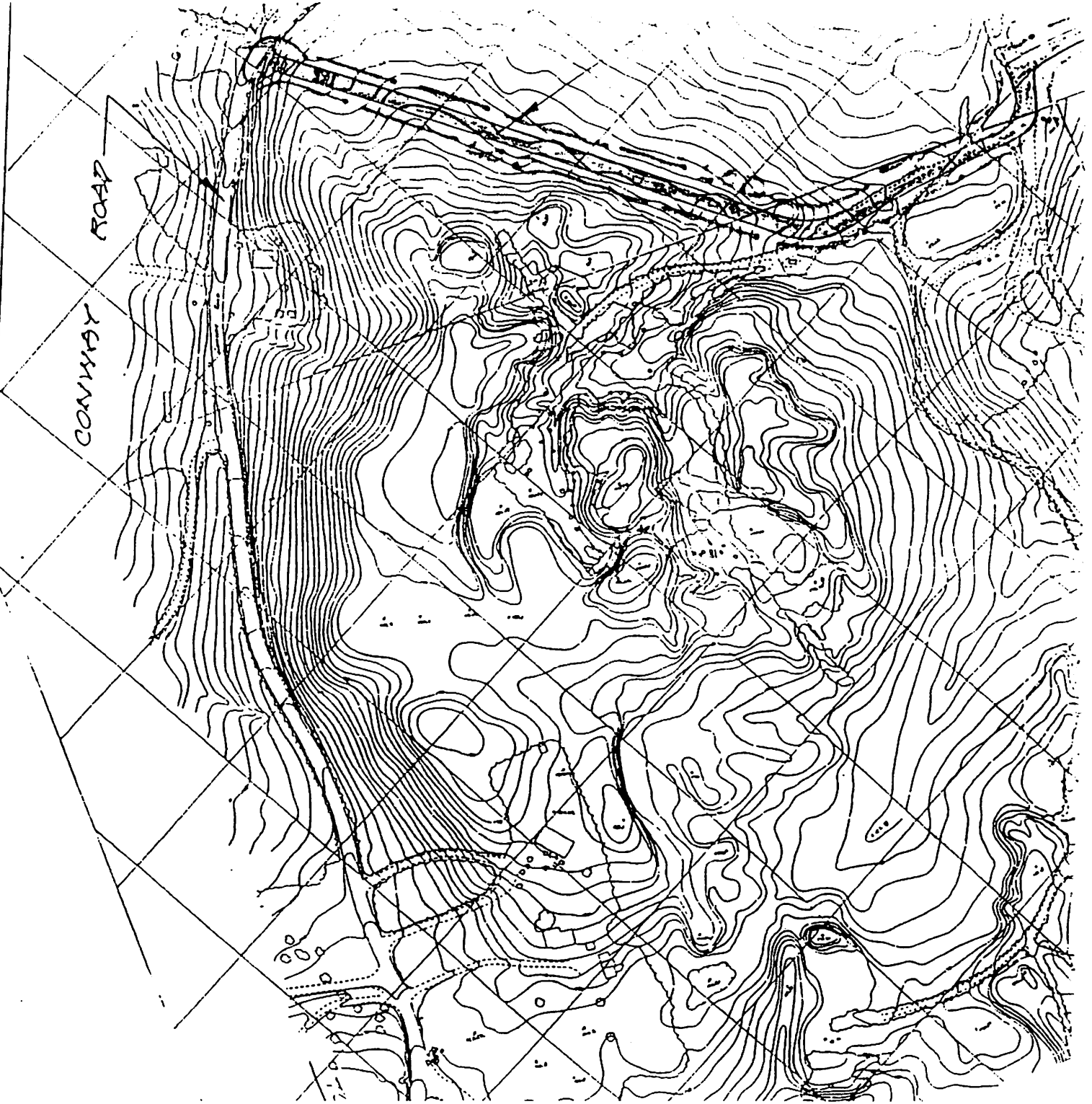
All culverts shall be strong enough to
ectional area under maximum expected

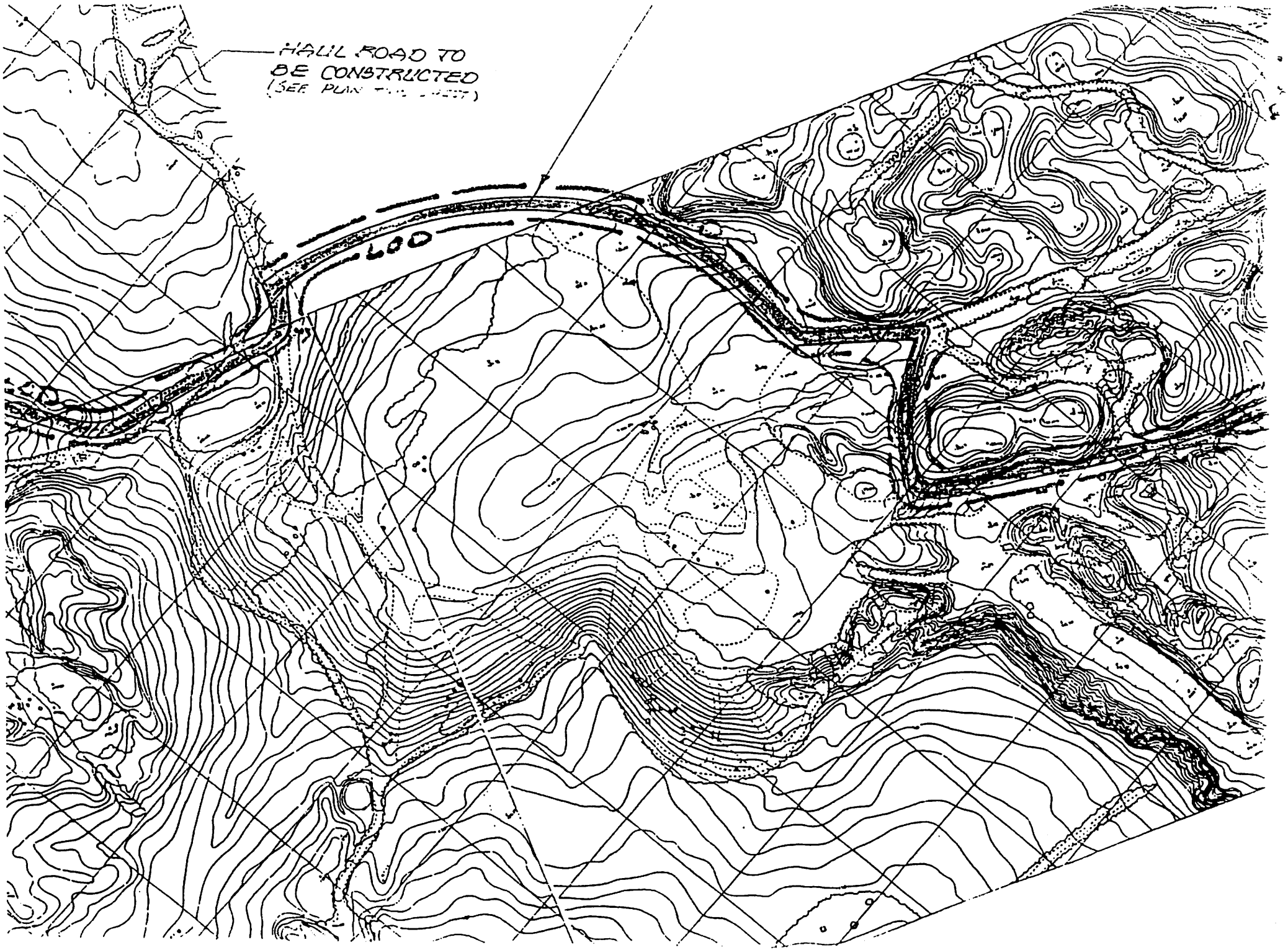
size of the culvert pipe shall be the
that will fit into the existing channel
ion of the waterway channel or without
If a channel width exceeds 3 feet,
e used until the cross sectional area of
nan 50 percent of the cross sectional
hannel. The minimum size culvert that
iameter pipe. In all cases, the pipe(s)
to convey normal stream flows.

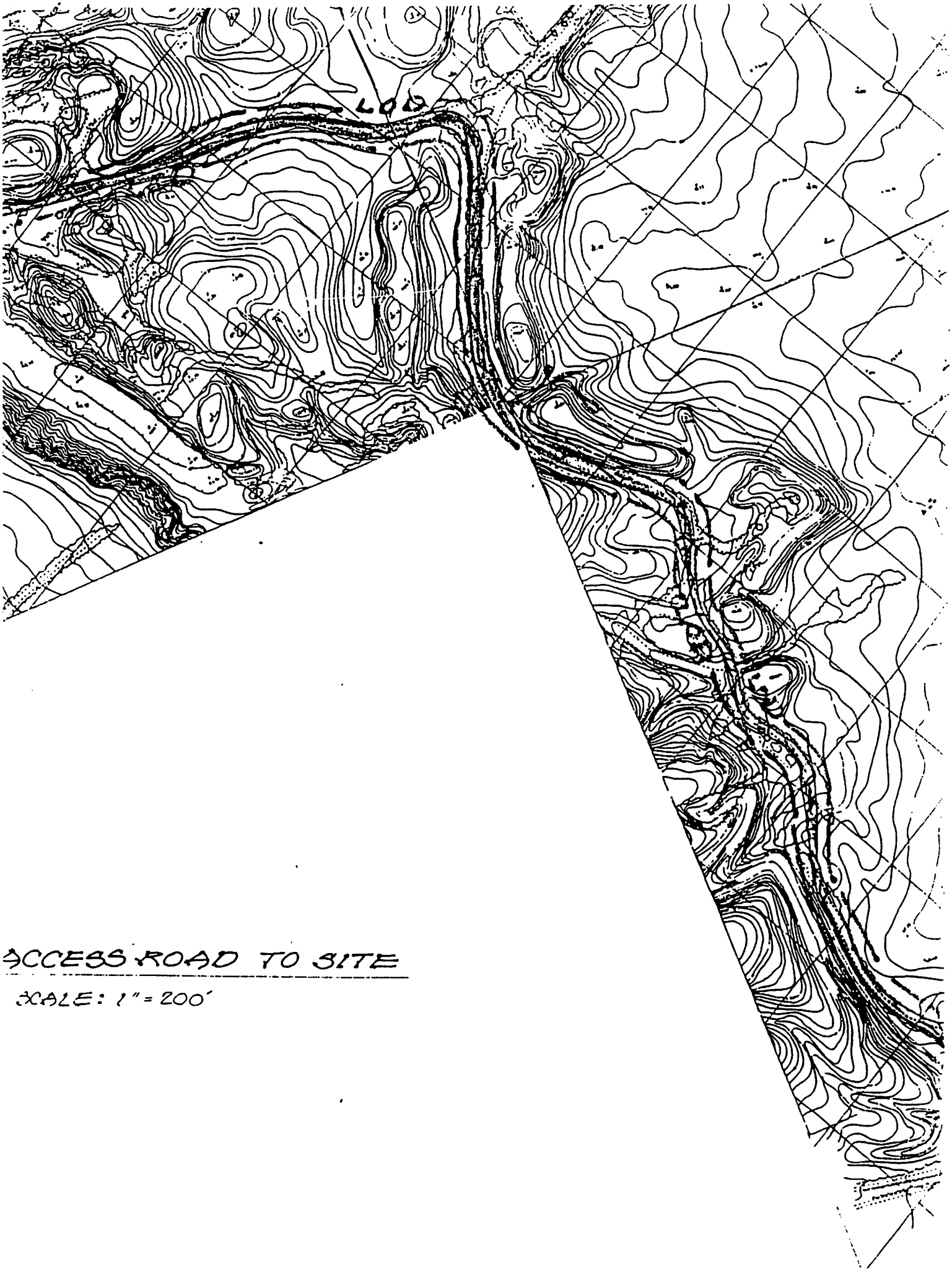
culvert(s) shall extend a minimum of
stream and downstream toe to the
the culvert. In no case shall the
in length.

cloth shall be placed on the
prior to placement of the pipe
. The filter cloth shall cover the
minimum six inches and a maximum one
the culvert and bedding material.
ttlement and improves crossing

The invert elevation of the culvert




HAUL ROAD TO
BE CONSTRUCTED
LOD

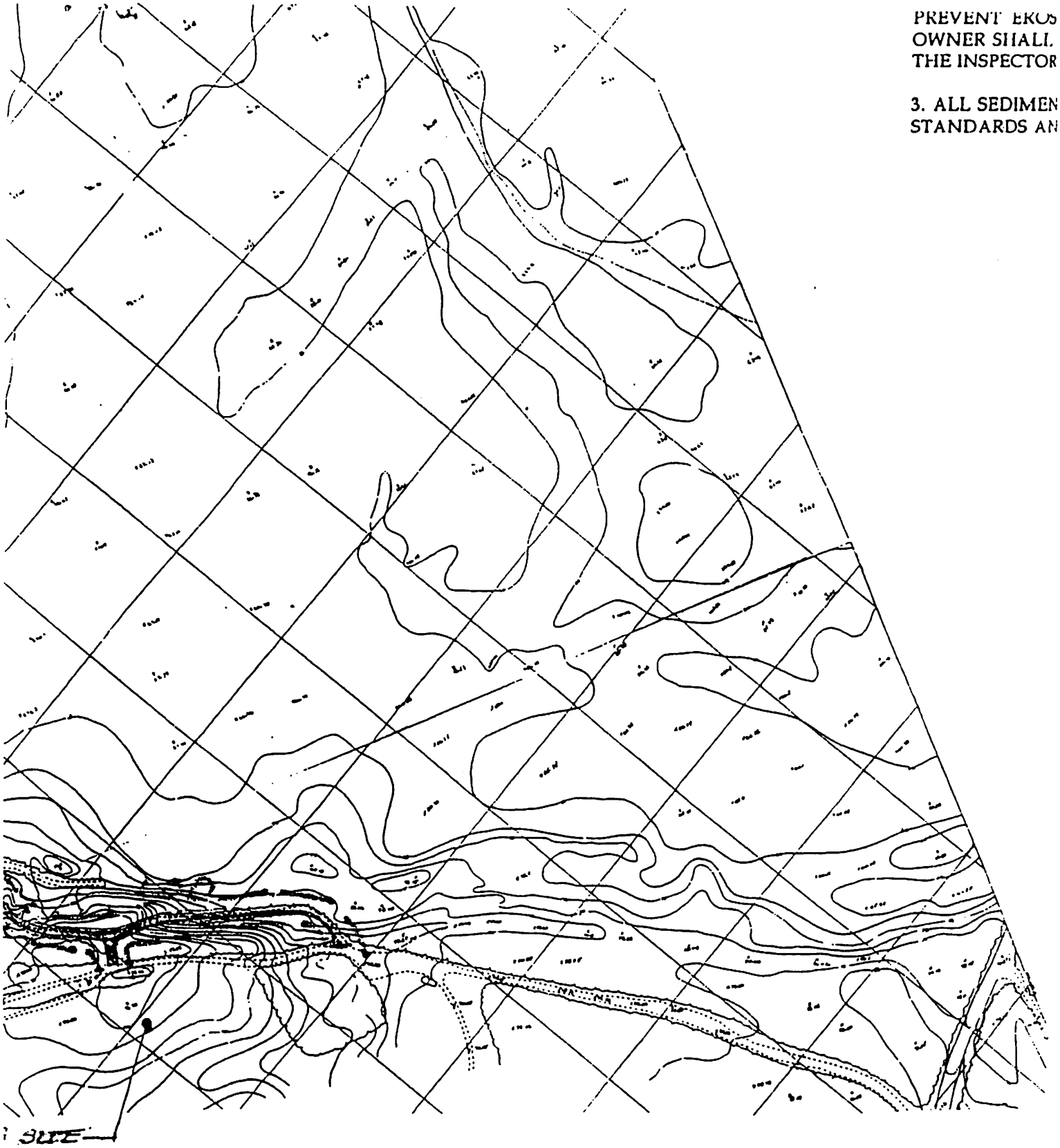


ACCESS ROAD TO SITE

SCALE: 1" = 200'

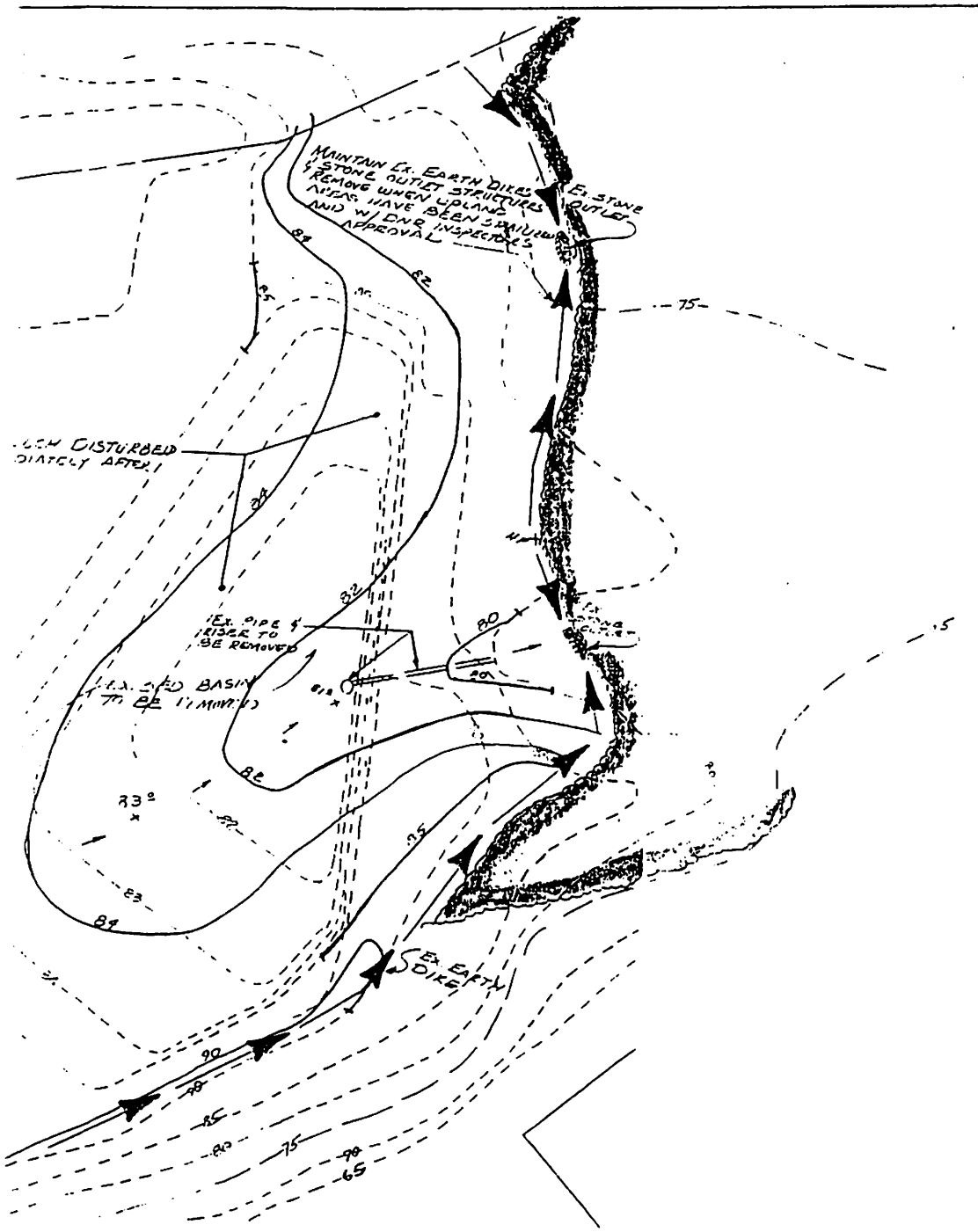
PREVENT EROS
OWNER SHALL
THE INSPECTOR

3. ALL SEDIMEN
STANDARDS AN

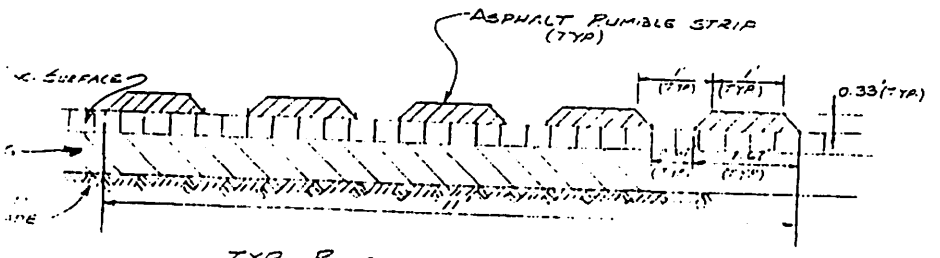


SURFACE MINING PLAN
CHESAPEAKE TERRAC

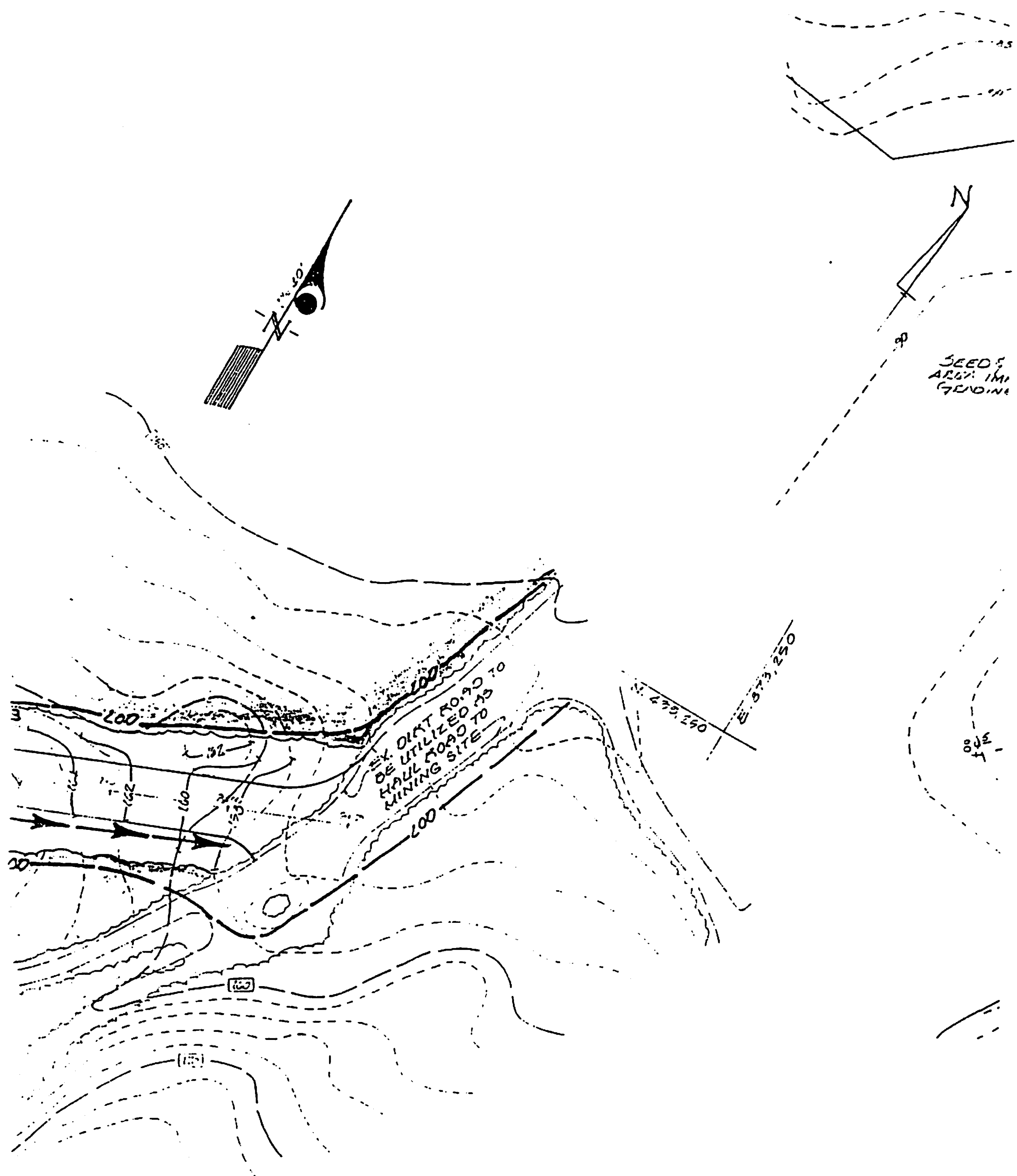
FOURTH ASSESSMENT DISTRICT ANNE ARUNDEL COUNTY, MARYLA

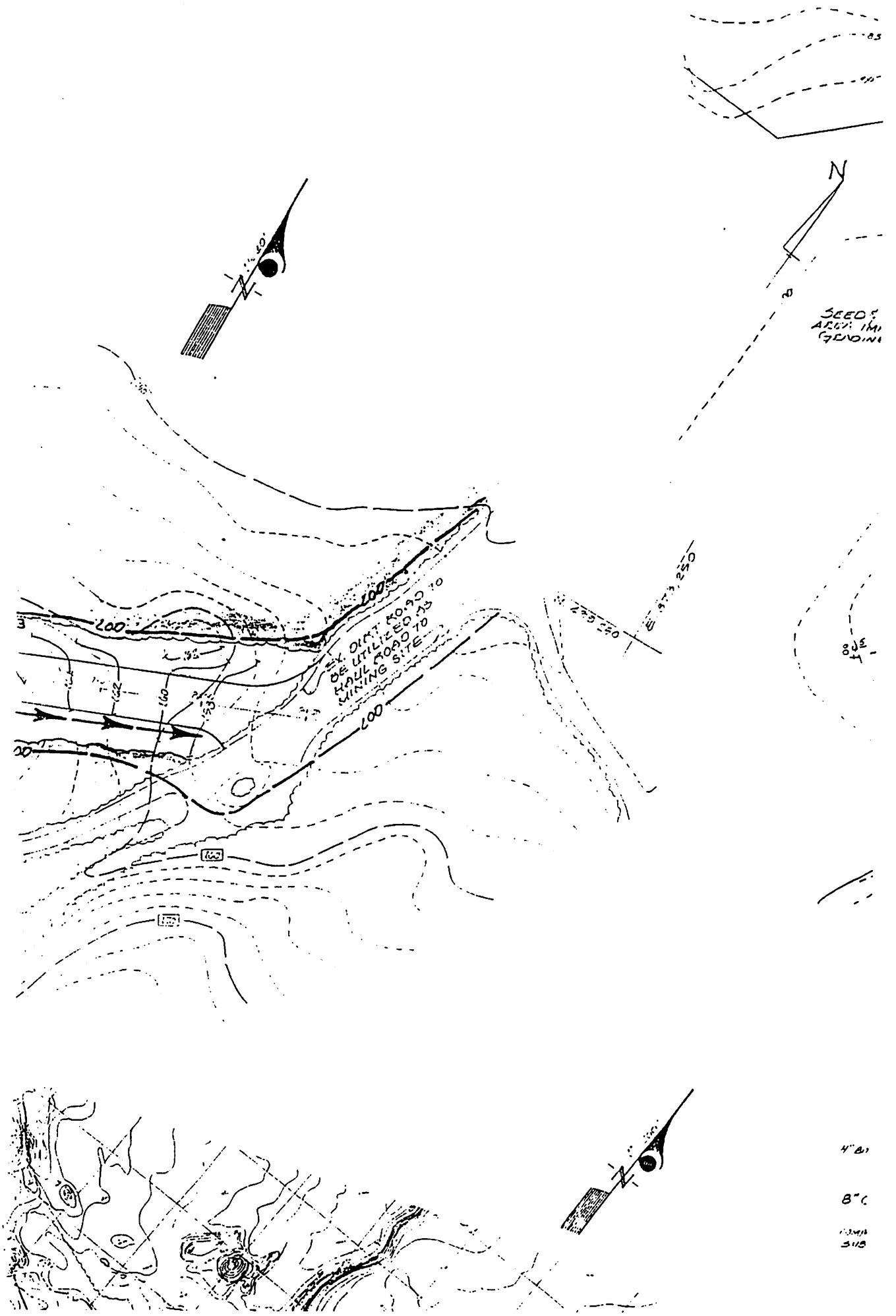


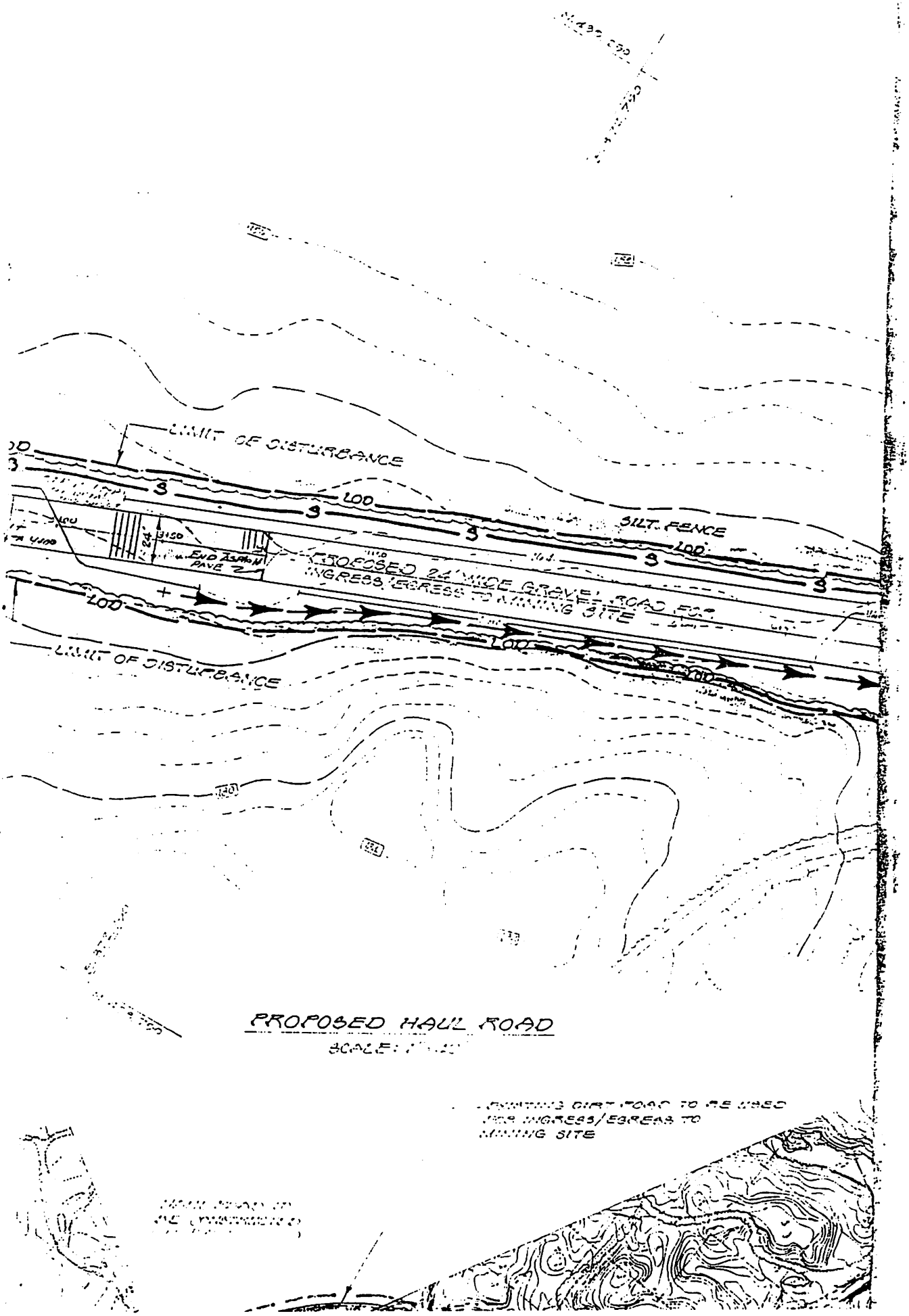
SEDIMENT BASIN CLOSE-OUT PLAN
SCALE: 1" = 40'



TYP RUMBLE STRIP AND PAVEMENT SECTION
SCALE: 1" = 2' H & V

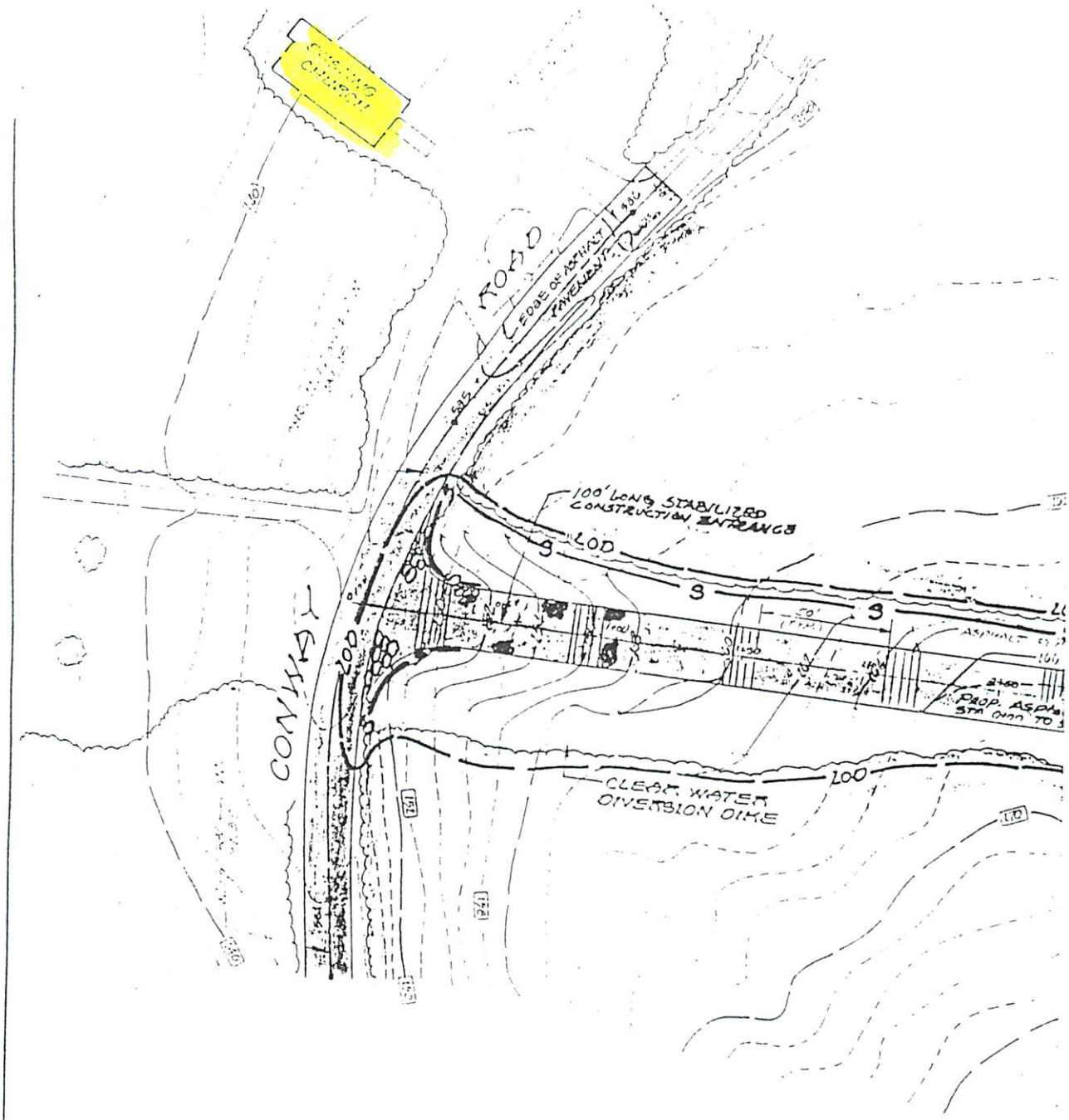

EX. DIRT ROAD TO
BE UTILIZED AS
HAUL ROAD TO
MINING SITE
200
200
200
N. 439,250
E. 573,250


N
200
100
EX. DIRT ROAD TO BE UTILIZED AS HAUL ROAD TO MINING SITE
SEED
ARCH
GROUN



PROPOSED HAUL ROAD

SCALE: 1" = 100'



NOTES:

1. MUD, DIRT AND DEBRIS, TRACKED ONTO CONWAY ROAD BY THIS OPERATION TO BE REMOVED ON A DAILY BASIS.

2. HAUL ROADS TO THE MINING SITE TO BE MAINTAINED BY THE OWNER ON A DAILY BASIS.

3. HAUL ROADS SHALL BE WATERED DOWN DAILY AS A METHOD OF DUST CONTROL.

4. SEDIMENT CONTROLS FOR THE EXISTING HAUL ROADS TO BE INSTALLED AS NEEDED AT THE DIRECTION OF THE WATER RESOURCES MANAGEMENT INSPECTOR.

DETAIL 36 TEMPORARY ACCESS CULVERT