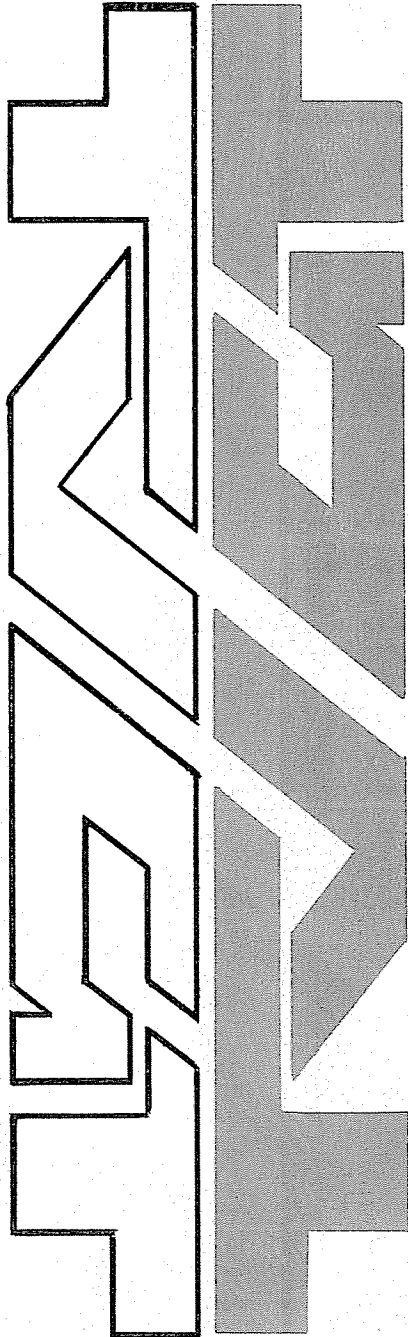


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TOWN OF ROYALTON  
SANITARY LANDFILL  
FINAL CLOSURE REPORT  
NIAGARA COUNTY, NEW YORK

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NIAGARA COUNTY, NEW YORK

June, 1980

Prepared by:

Tallamy, Van Kuren, Gertis and Thielman  
70 Linwood Avenue  
Orchard Park, New York 14127

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## LIST OF EXHIBITS

<u>Exhibit No.</u>	
1	Location Map
2	Existing Topography and Site Plan
3	Cross Sections
4	Proposed Topography and Site Plan

## LANDFILL CLOSURE REPORT

### 1.0 AUTHORIZATION --

The firm of Tallamy, Van Kuren, Gertis and Thielman was authorized by the Town of Royalton to prepare a final closure plan for its sanitary landfill at the regular Town Board Meeting of May 12, 1980. This report is a result of that authorization.

### 2.0 SITE LOCATION AND DESCRIPTION --

The landfill is located on Griswold Street, about 1 mile southwest of the Village of Middleport, in the Town of Royalton, Niagara County, New York as shown on Exhibit 1.

The site consists of approximately 7 acres which the Town leased for the past 10 years from Mr. H. Ortman, a Town Resident. This lease expired December 31, 1979 and the property has reverted to Mr. Ortman.

While the site was operated by the Town, only residential wastes were accepted.

### 3.0 EXISTING CONDITIONS --

#### 3.1 Site --

The site, as it exists, is shown in Exhibit 2. This Site Plan was developed as the result of site visits and survey field work as per discussions with the New York State Department of Environmental Conservation.

#### 3.2 Cover --

Exhibit 2 details the results of field investigations examining depth of cover at the site. As can be seen from this Exhibit, some areas do not have

a sufficient depth of cover over the landfill refuse. These areas are located generally in the most recently completed parts of the landfill. Numerous piles of cover material have been deposited at the site for covering purposes.

### 3.3 Grading --

The general drainage pattern for the site is to the north. Within the site, some areas exist without proper grade and therefore pond water after a rainfall or snowmelt.

On the side slopes along the northern edge of the site, the grades were found to be within range of 2:1 (horizontal to vertical). These slopes are acceptable as they exist except where vegetative growth has to be established.

### 3.4 Leachate --

A few small leachate flows were found along the side slopes during field investigations. These generally were found to be dry and are indicative of improper cover or grading on top of the landfill, which allow surface water to enter the landfill and leach through the refuse.

## 4.0 RECOMMENDATIONS --

### 4.1 Cover --

Since some areas of the landfill were found to have inadequate depth of cover, it is necessary to add additional cover material to these areas to bring them into compliance with the New York State Environmental Conservation Law Part 360. This additional cover material should be placed as shown on Exhibit 4 and should consist of a layer of compacted silty-clay soil (depth will vary with the location as per plans) and six inches of topsoil. The first layer, when placed and compacted, will serve to prevent water from entering the landfill through the surface. The second layer, the topsoil, will serve as a base for the vegetative cover which will act to prevent cover erosion once it is established.

#### 4.2 Grading --

The grading of the site will be accomplished as a part of the cover operation. The final grade on top of the landfill should be at least 2% and not greater than 5%. Since the landfill currently has relatively little slope, a 2% slope is recommended for site closure as is indicated in Exhibit 3.

Since the side slopes generally have a 2:1 (horizontal:vertical) side slope no additional grading is required in this area.

#### 4.3 Vegetative Cover --

In areas where cover or grading are required or where there is sparse or no vegetative cover, the area should be seeded with a perennial ryegrass at a rate of 20 to 25 pounds per acre.

### 5.0 FINAL CLOSURE --

#### 5.1 Maintenance --

Since the landfill was operated under a land lease with Mr. H. Ortman, of Griswold Street, Middleport, New York 14105, the land has reverted to Mr. Ortman as the lease has expired.

Maintenance for the site will be the responsibility of Mr. Ortman. Since it is planned to be used in growing hay crops, the maintenance will be performed as a part of the farming operation.

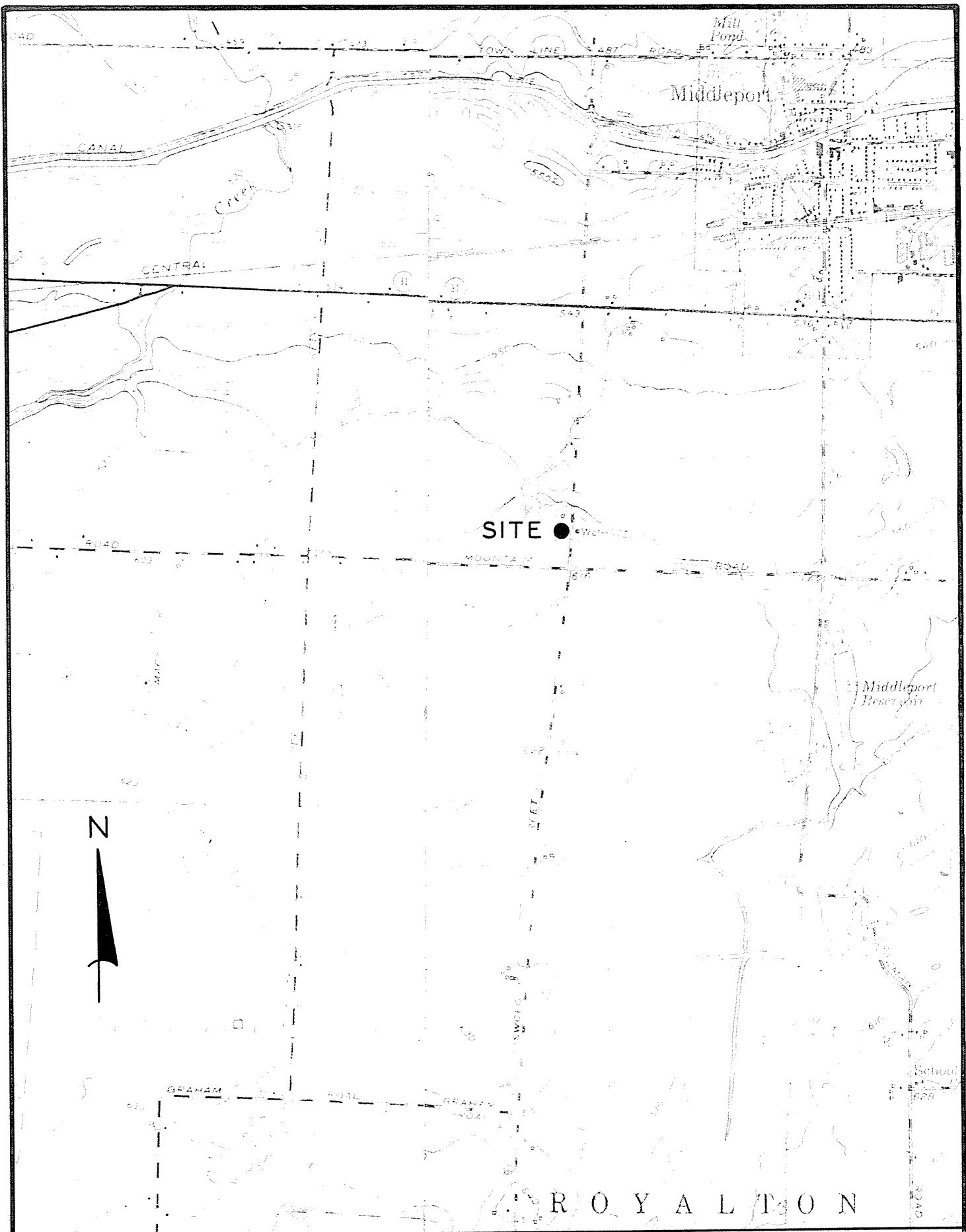
Should farming not be practiced on a regular basis, spring and fall site investigation should be practiced. These should consist of determining the condition of the cover and the vegetation growth. If the cover has eroded, settled or cracked severely, additional cover shall be brought in, placed, compacted and seeded to upgrade the site to an acceptable status.

The site should be examined to assure that the vegetative cover is viable. In areas where the vegetative cover is found to be lacking, the area shall be seeded as per Section 4.3.

#### 5.2 Final Use --

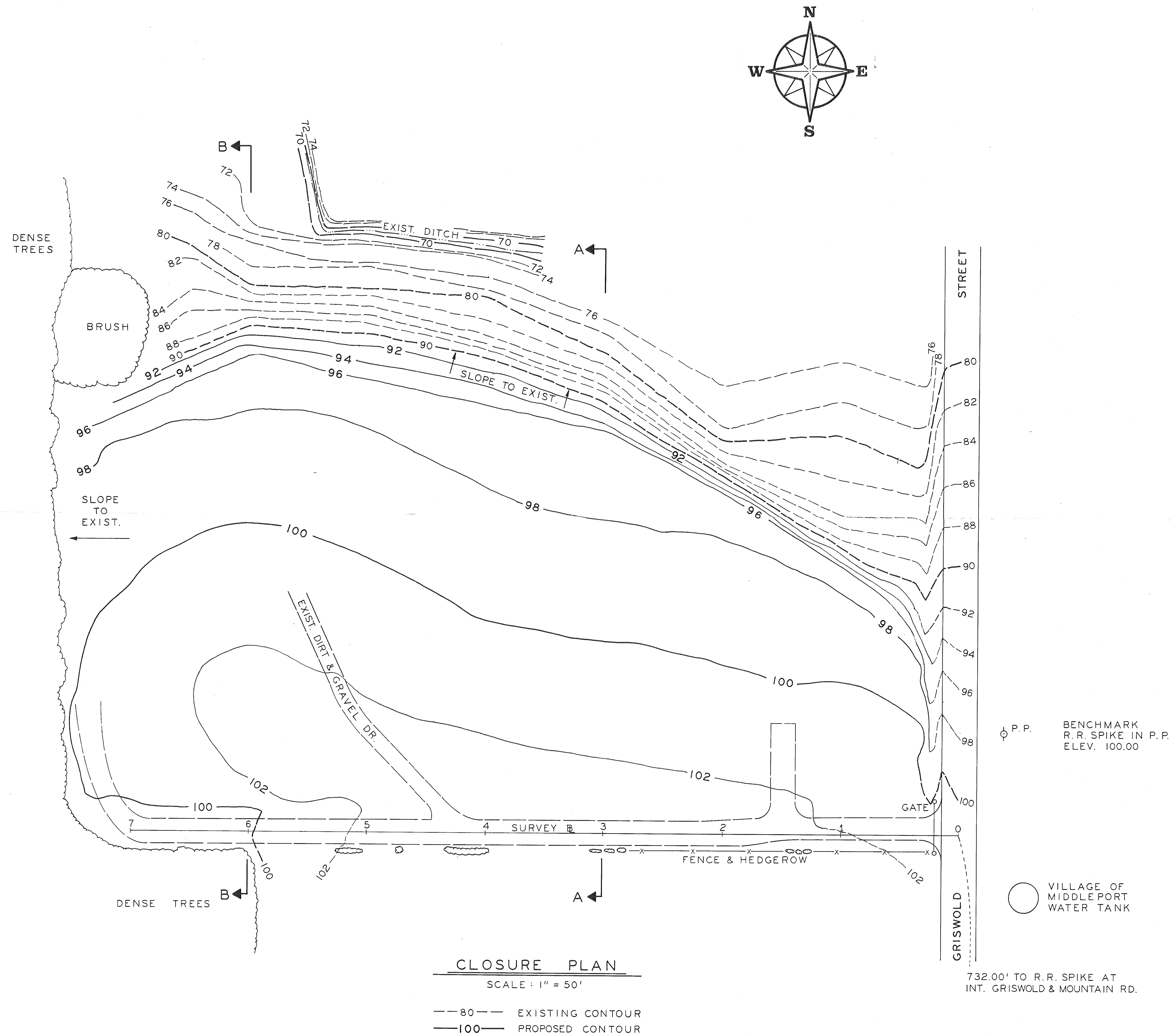
It is intended that the landfill revert to farmland and that hay crops be grown. This proposed land use is acceptable as the land was originally farmed and the areas which surround the site are actively farmed. Since the crops grown would not be used for direct human consumption, no health hazard would be expected.





TOWN OF ROYALTON  
SANITARY LANDFILL

LOCATION MAP

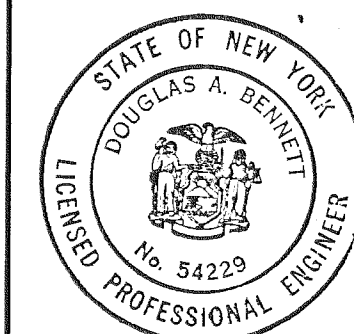


**CLOSURE PLAN**  
SCALE: 1" = 50'

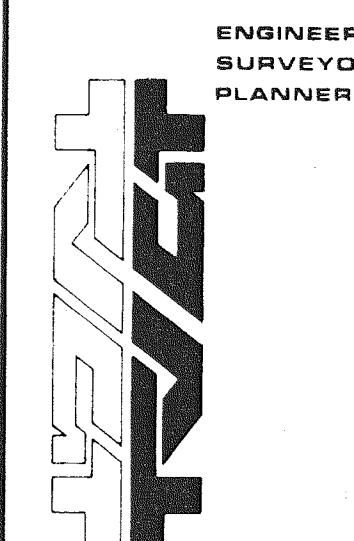
---80--- EXISTING CONTOUR  
—100— PROPOSED CONTOUR

TOWN OF ROYALTON  
SANITARY LANDFILL  
CLOSURE PLAN

REV 1  
REV 2  
REV 3  
REV 4  
REV 5



*Douglas A. Bennett*

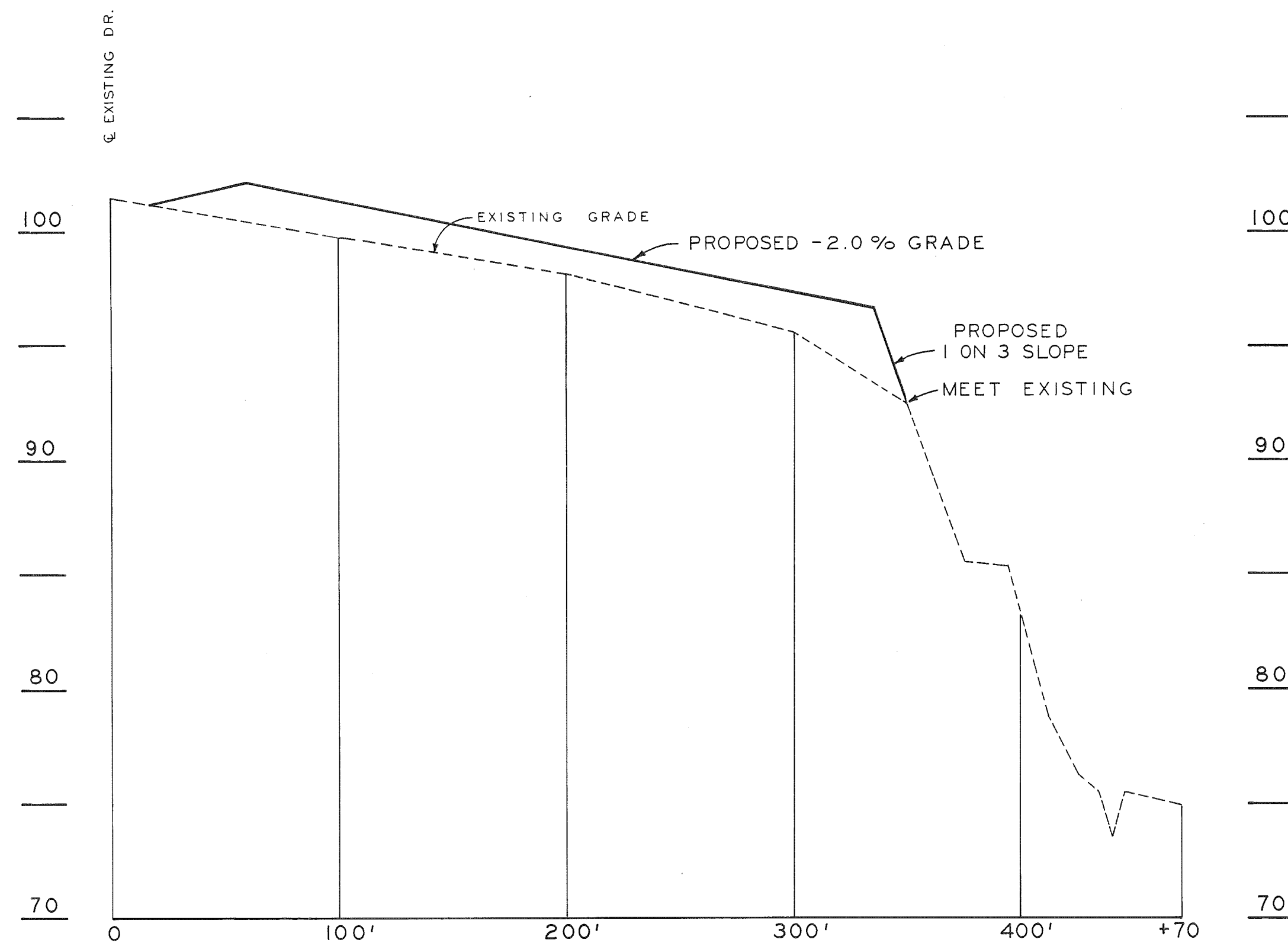


Tallamy, Van Kuren,  
Gertis & Thielman  
ORCHARD PARK  
NEW YORK  
LANSE  
PENNSYLVANIA  
WASHINGTON  
D.C.  
BUFFALO  
NEW YORK

designed by N.J.P.  
drawn by M.R.B.  
checked by N.J.P.  
scale 1" = 50'  
date JUNE 1980  
job no. 800338  
sheet 3 of 3  
drawing no. B-12162

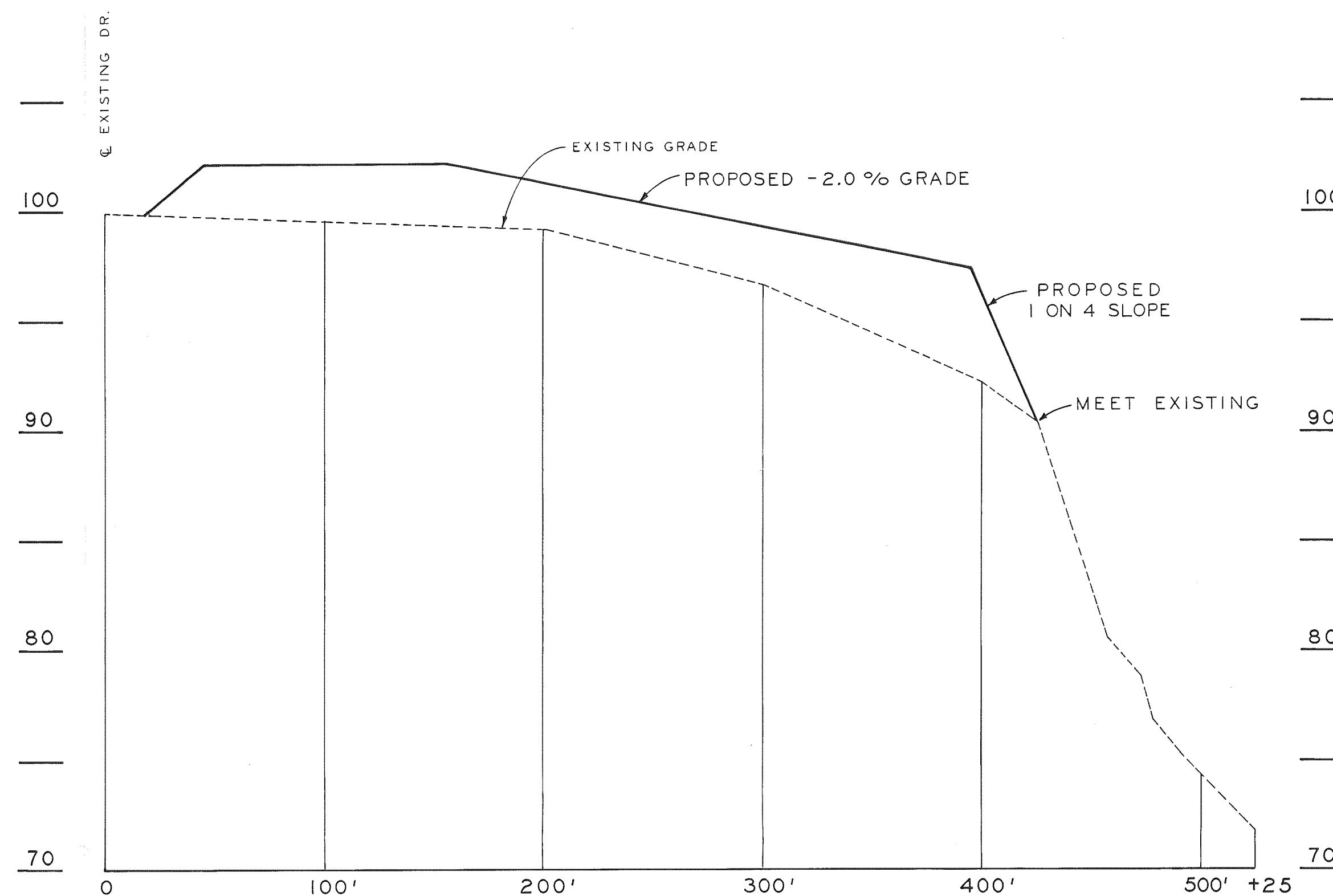
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**JUN 26 1980**



SECTION A-A

SCALE: HORIZ. 1" = 50'  
VERT. 1" = 5'



SECTION B-B

SCALE: HORIZ. 1" = 50'  
VERT. 1" = 5'

TOWN OF ROYALTON  
SANITARY LANDFILL

SECTIONS

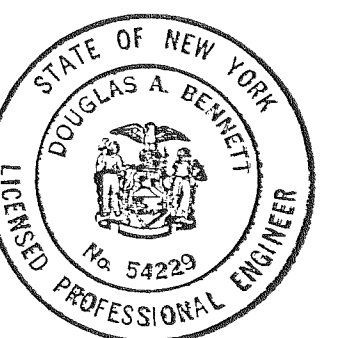
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REV 2

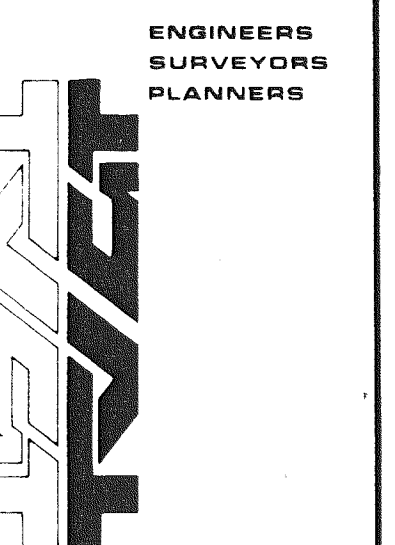
REV 3

REV 4

REV 5



*Douglas A. Bennett*

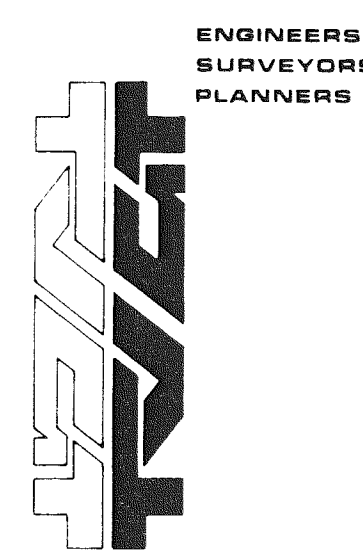
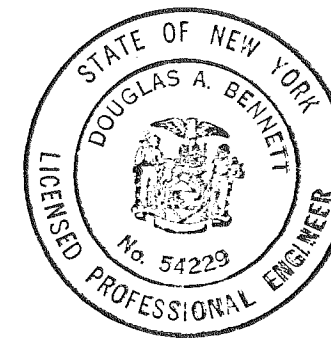
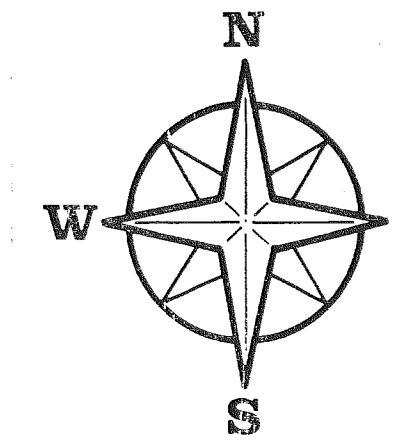
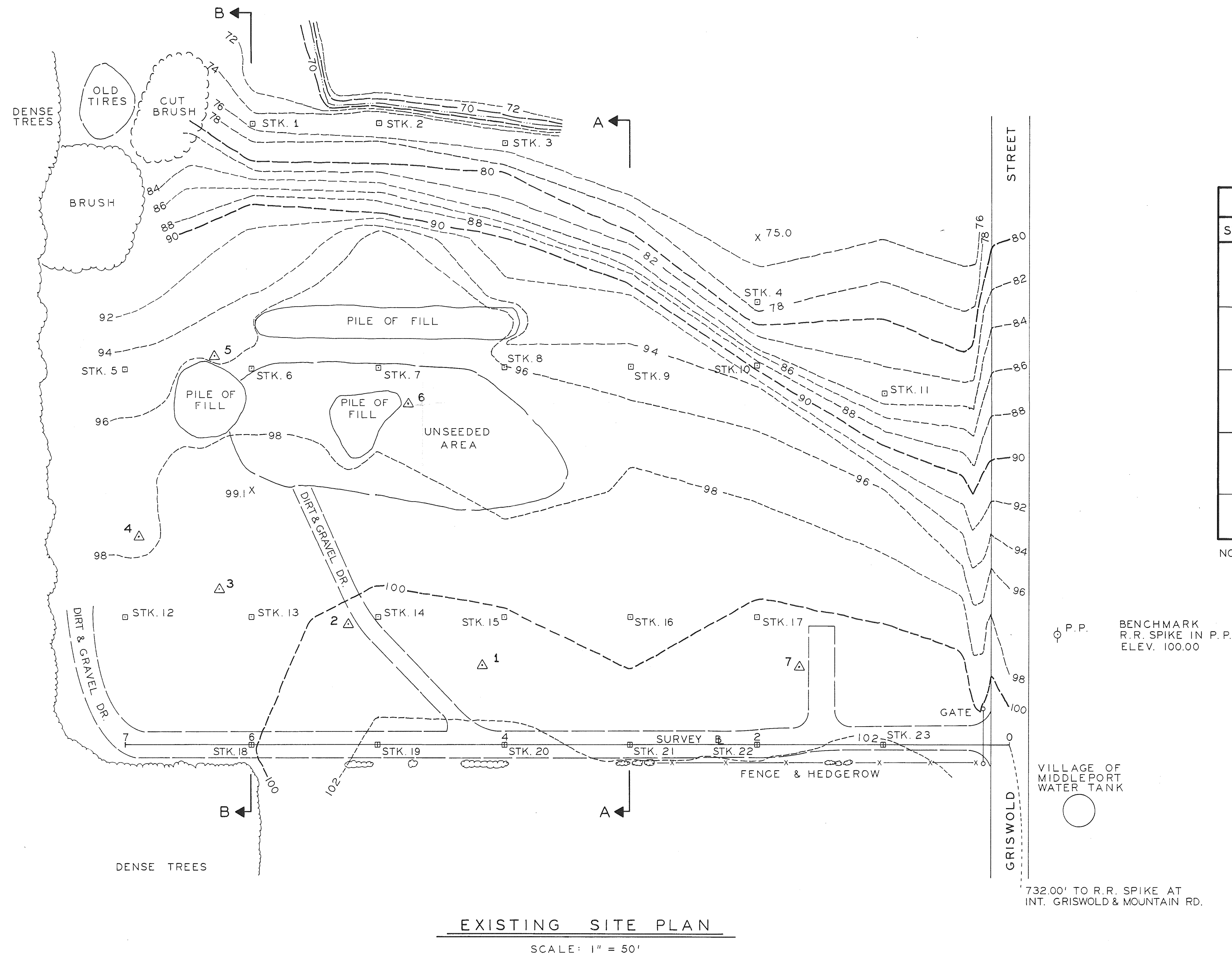


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**JUN 26 1980**

STATE OF NEW YORK  
CONSERVATION DEPT.  
DIV. OF WATER RESOURCES

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