

HD - 147-280

**HOWARD COUNTY HEALTH DEPARTMENT**

**Bureau of Environmental Health**

**Ellicott City, Maryland 21043**

**Phone: 992-2330**

Date: 12/17/80

TO: FS

FROM: WZ

- |                                                                        |                                           |
|------------------------------------------------------------------------|-------------------------------------------|
| <input type="checkbox"/> Please Note & File                            | <input type="checkbox"/> Please Circulate |
| <input type="checkbox"/> For Your Information                          | <input type="checkbox"/> Please Comment   |
| <input type="checkbox"/> Please Note & Return                          | <input type="checkbox"/> Please See Me    |
| <input checked="" type="checkbox"/> Please Handle                      |                                           |
| <input type="checkbox"/> Please answer, Sending me Copy of your letter |                                           |
| <input type="checkbox"/> Please Prepare reply for my Signature         |                                           |

REMARKS:

# APPLICATION

A 18822

## SEWAGE DISPOSAL TESTING

P \_\_\_\_\_

STATE OF MARYLAND - DEPARTMENT OF HEALTH AND MENTAL HYGIENE

HOWARD COUNTY HEALTH DEPARTMENT  
ENVIRONMENTAL HEALTH SERVICES  
P. O. BOX 476, ELLICOTT CITY, MARYLAND 21043  
TELEPHONE: 465-5000, EXT. 356

DISTRICT 2nd  
DATE 8/3/73

TO: THE COUNTY HEALTH OFFICER  
ELLICOTT CITY MARYLAND

I, HEREBY, APPLY FOR THE NECESSARY TEST IN ORDER TO CONSTRUCT (OR RECONSTRUCT) A SEWAGE DISPOSAL SYSTEM.

PROPERTY OWNER HOWARD COUNTY DEPARTMENT OF RECREATION AND PARKS  
ADDRESS HOWARD COUNTY, MD PHONE 465 5000

PROPERTY LOCATION:

SUBDIVISION \_\_\_\_\_ LOT NO. \_\_\_\_\_

ROAD AND DESCRIPTION 1100 ROUTE 25 AND CENTENNIAL LINE

SIZE OF LOT \_\_\_\_\_ TYPE BLDG. CLUB HOUSE  
NUMBER OF BEDROOMS \_\_\_\_\_

IF NOT SINGLE RESIDENCE DESCRIBE COMMERCIAL

THE SYSTEM INSTALLED UNDER THIS APPLICATION IS ACCEPTABLE ONLY UNTIL PUBLIC FACILITIES BECOME AVAILABLE.

SIGNATURE OF APPLICANT [Signature] BRADIM & JESCHKE ENGINEERS

APPROVED BY \_\_\_\_\_ FOR \_\_\_\_\_ DATE \_\_\_\_\_  
(KIND OF SYSTEM)

REJECTED BY \_\_\_\_\_ FOR \_\_\_\_\_ DATE \_\_\_\_\_  
(KIND OF SYSTEM)

HOLD-PENDING FURTHER TESTS \_\_\_\_\_ DATE \_\_\_\_\_

REASONS FOR REJECTION OR HOLDING \_\_\_\_\_

# THIS IS NOT A PERMIT

File: Ho. Co. Rec. & Parks perc. file

December 22, 1980

Mr. Frank H. French, President  
Turpin, Wachter Associates, Inc.  
8 East Pennsylvania Avenue  
Towson, Maryland 21204

Dear Mr. French:

Confirming our phone conversation of December 17, 1980, and in response to your letter of December 12, 1980, please be advised that this agency would accept your proposal for an alternative sewage disposal system to service the ballpark restroom adjacent to Centennial Lane at the Centennial Park, Phase II project.

I believe the best course of action would be to apply for and perform a percolation test. Assuming a suitable area and soil types are found, a permit to install a septic system could then be issued by this office.

If you have any questions regarding this matter, please call me at 992-2330.

Very truly yours,

*F. A. S.*

Frank A. Skinner, Sanitarian

FAS:hs

HOWARD COUNTY OFFICE OF PLANNING AND ZONING  
DIVISION OF LAND DEVELOPMENT  
COUNTY OFFICE BUILDING  
3450 COURT HOUSE DRIVE  
ELLCOTT CITY, MARYLAND 21043

DATE: 9-10-76

P.&Z. File No. 500-17

Agencies

Office of Planning and Zoning

- 4 Director, Department of Public Works
- 4 Bureau of Engineering
- Bureau of Inspections and Permits
- 1 Fire Administrator
- 1 Police Department
- 5 State Highway Administration
- X 1 Division of Environmental Health
- 1 Howard County Public School System
- 1 Recreation and Parks
- 1 Soil Conservation Service
- County Assessment

- 1 Director
- 1 Chief, Division of Transportation Planning
- Transportation Planning
- 2 File
- 1 Division of Comprehensive Planning
- 1 Division of Zoning
- Planning Board Members
- 657
- 1 8688
- 
- 

RE: Centennial Park, Maint Shop & Storage Bldg. 201

FOR PLAN REVIEW MEETING OF 10-6-76 at 2:00 PM in Room 201  
(Date) (Time) (Place)

ENCLOSED FOR YOUR:     Signature Approval X Review & Comments     Files

THE ENCLOSED:     Original X Copy

	<u>No. of Sheets</u>		<u>No. of Sheets</u>
<u>   </u> Preliminary Plan	<u>   </u>	<u>   </u> Final Road and/or Storm Drainage Plan	<u>   </u>
<u>   </u> Preliminary Road Profile	<u>   </u>	<u>   </u> Final Storm Drainage Computations	<u>   </u>
<u>   </u> Preliminary Drainage Study and/or Computations	<u>   </u>	<u>X</u> Site Development Plan	<u>3</u>
<u>   </u> Final Development Criteria	<u>   </u>	<u>   </u> Sketch Plan	<u>   </u>
<u>   </u> Final Development Plan	<u>   </u>	<u>   </u>	<u>   </u>
<u>   </u> Final Plat	<u>   </u>	<u>   </u>	<u>   </u>

WAS: X Received     Tentatively Approved     Recorded  
    Received & Revised     Approved On 9-10-76

COMMENTS:    

Check box and return to Office of Planning and Zoning if plan is approved with no comments.

# TURPIN, WACHTER ASSOCIATES, INC.

CONSULTING ENGINEERS

8 E. PENNSYLVANIA AVENUE • TOWSON, MARYLAND 21204  
TELEPHONE AREA CODE 301 • 296-8220 • 296-8221 • 296-8222

RECEIVED  
HEALTH DEPT  
ELLCOTT CITY, MD  
Dec 16 1 42 PM '80

December 12, 1980

Mr. William Zepp  
Department of Environmental Health  
3716 Court Place  
Ellicott City, Maryland

Re: Centennial Park, Phase II, Sewage Disposal

Dear Mr. Zepp,

We are currently working on a 360 acre park to be built along Md. Route 108, between Old Annapolis Road and Centennial Lane.

In an area contiguous to Centennial Lane, a restroom will be constructed.

We have sized a pumping station and laid out a forcemain gravity sewer system which extends from the restroom to an existing Sanitary Manhole on the property. Looking at the enclosed profile you will see that the force main must cross under a stream in a valley.

Due to normal low flows and practically no flow during the winter, the contents of the 4 inch, 1750 ft. long forcemain could solidify during the long shut down periods in winter. The line would then become inoperative by spring. When the blow-off valve in the valley is opened to clear the line, its contents would empty into a stream, feeding into a proposed recreation lake. There is also a problem with forcemain velocities which should be 3 ft./sec. for this situation. However, we are having trouble getting 2 ft/sec. due to the fact that we need a 4 inch line to accommodate a pump which must pass 3 inch solids. Further, flows are so low the wet well contents will probably become septic during normal intermitant operation.

In view of the above we propose an alternate disposal system, either a holding tank or septic tank - drain field. The restroom is situated at the apex of three ball fields. As one alternate to pumping, we propose that a septic tank be installed with a drain field extended out under the outfield of the ball diamond, which elevation is 2 ft. lower than the restroom.

The restroom contains 5 water closets, 1 urinal and 4 lavs. which amounts to 65 fixture units, 58 gpm max. flow. We estimate two pumps would be required, each with a 100 gpm, 40 ft. TDH capacity. We estimate that during the summer, the restrooms would normally serve 100 persons per day. Fixtures are all the "water saving type."


Before we proceed any further we request your comments as to whether alternates to pumping are acceptable to you and if so any preference that you may have.

TURPIN, WACHTER ASSOCIATES, INC.  
CONSULTING ENGINEERS

December 12, 1980

We enclose copies of the forcemain profile and a cost estimate of pumping (\$78,000.00). This cost estimate would indicate that any alternate to pumping would save the County considerable money, but, our main concern is the possibility of dumping raw sewage into the lake.

Sincerely,

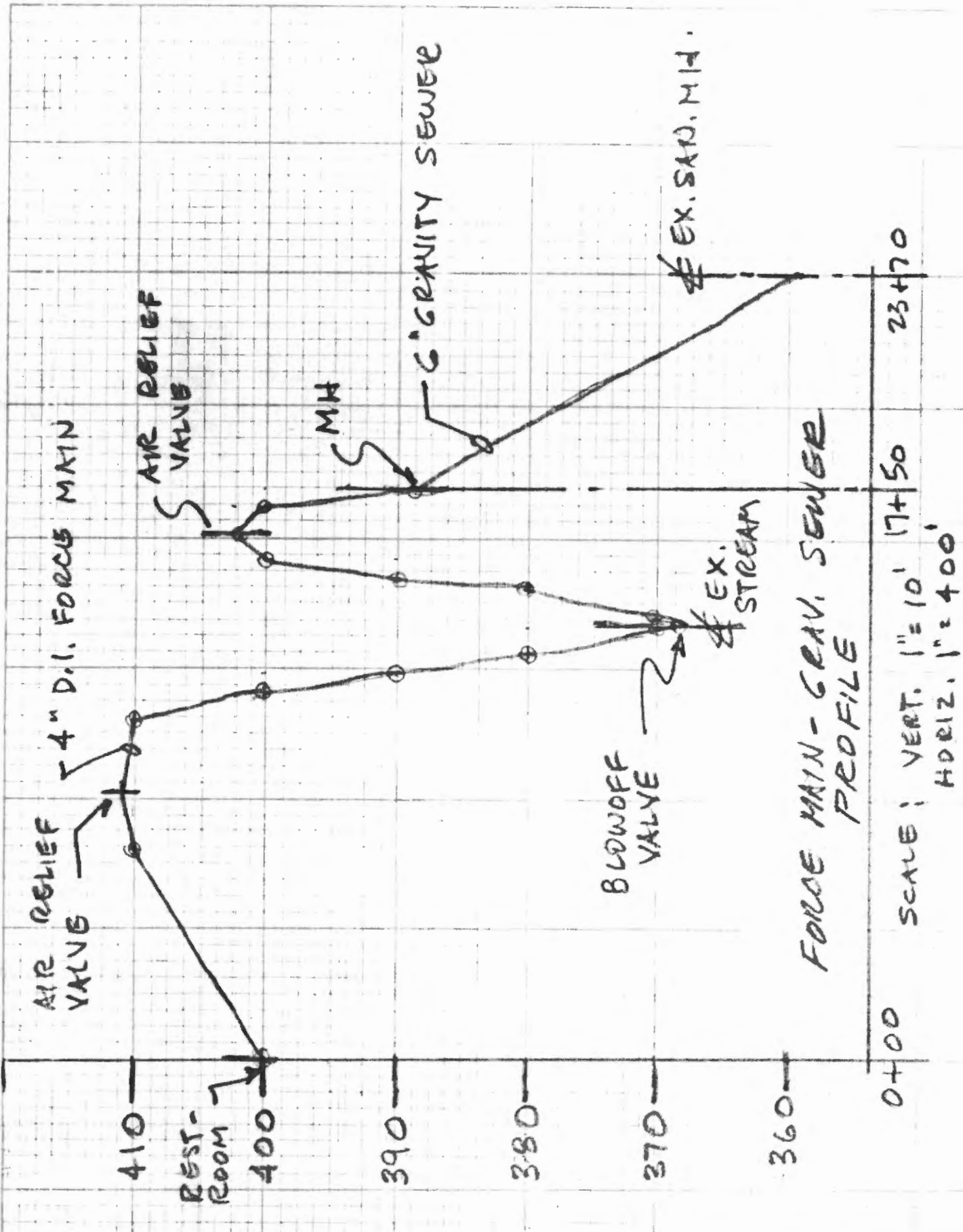
  
Frank H. French  
President

FHF/dw

cc. Mr. Ed Skull  
Mr. Ken Smith  
Mr. Robert Gorman

SUBJECT: CENT. PK. PASE II MAIN FORCE  
COMPUTED BY: A<sup>2</sup> DATE \_\_\_\_\_ CHECKED BY: \_\_\_\_\_ DATE \_\_\_\_\_

PROJ. NO. \_\_\_\_\_  
SHEET \_\_\_\_\_  
DATE \_\_\_\_\_





**TURPIN, WACHTER ASSOCIATES, INC.**  
CONSULTING ENGINEERS

1800 N CHARLES STREET  
BALTIMORE, MD 21201  
(301) 685-2383

CONSTRUCTION COST ESTIMATE      DATE DEC. 2, 80      SHEET 1 OF 1 SHEETS      JOB NO.

PROJECT  
CENT. PK. PHASE TWO  
LOCATION CENTENNIAL PARK  
OWNER HOWARD COUNTY  
REF.      ESTIMATOR PIFF      CHECKED BY

BASIS FOR ESTIMATE  
 STUDY       REPORT  
 BUDGET       CONCEPT  
 PRELIMINARY       INTERMEDIATE  
 FINAL

SUMMARY	QUANTITY		LABOR		MATERIAL		TOTAL COST
	NO. UNITS	UNIT MEAS.	PER UNIT	TOTAL	PER UNIT	TOTAL	
LIFT STA. FORCE MAIN & GRAVITY SEWER							
PACKAGE PUMP STA. TWO PUMPS CAP. 100 GPM @ 40' TDH.	1	EA.	-	3000	-	20,000	23,000
4" DUCTILE IRON PIPE W/ RISING JOINTS	1750	4/F	2.49	4358	4.20	7350	11,708
TRENCH EXCAV. & BKFL.	2370	4/F	1.80	4266	3.30	7820	12,086
6" VCP - GRAVITY	620	4/F	2.30	1426	2.60	1488	2,914
MH - TERMINAL	1	EA.	-	295	-	325	620
MH - BLOWOFF	1	↓	-	395	-	625	1,020
MH - AIR RELIEF VENT	2	↓	350	700	650	1300	2,000
CUTTING INTO EXIST. MH	1	↓	-	150	-	180	330
							53,678
ELECT. - SEP. SERVICE				2000		2500	5,000
							58,678
CLEANUP, TESTING, MOBILIZATION, DEMOBILIZATION							1,000
							59,678
30% O'HD & PROFIT							17,903
							77,581
				TOTAL = * (SAY 78,000)			
V.S.							
HOLDING TANK #1 OR 15,000 GAL. SEP. TK., DRAIN FIELD							
25,000 GAL. 18" x 32'-9"	1	EA.	-	1250	-	8,500	9,750
EXCAV.	290	4/F	4.10	1189	-	-	1,189
BKFL	110	4/F	.80	88	-	-	88
ALARM	1	EA.	-	300	-	500	800
							11,827
30% O'ND. & PROFIT							3,548
							15,375
				(SAY 16,000)			

TURPIN, WACHTER ASSOCIATES, INC.

CONSULTING ENGINEERS

8 E. PENNSYLVANIA AVENUE • TOWSON, MARYLAND 21204  
TELEPHONE AREA CODE 301 • 296-8220 • 296-8221 • 296-8222

May 21, 1981

Mr. Frank Skinner  
Dept. of Environmental Health  
3716 Court Place  
Ellicott City, MD

Re: Cent. Pk. Phase II, Sewage Disposal

Dear Mr. Skinner,

We enclose prints Nos. 1, 13 & 27 for your final review. These prints indicate perc. test hole locations, proposed drain field, details of septic tank and distribution chamber.

We wish to thank you for your help and cooperation during our preliminary discussions regarding this matter and are available at your request to discuss any final comments you may have.

Sincerely,  
TURPIN, WACHTER ASSOCIATES, INC.

  
Frank H. French

FHF/dw

cc. Mr. Ken Smith  
Mr. Robert Gorman

APPROVED: For public Water, Public Sewerage and Storm Drainage Systems and Roads

HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

DIRECTOR \_\_\_\_\_ DATE \_\_\_\_\_

CHIEF, BUREAU OF ENGINEERING \_\_\_\_\_ DATE \_\_\_\_\_

APPROVED: For public/private Water and Public/Private Sewerage Systems

HOWARD COUNTY HEALTH DEPARTMENT

COUNTY HEALTH OFFICER \_\_\_\_\_ DATE \_\_\_\_\_

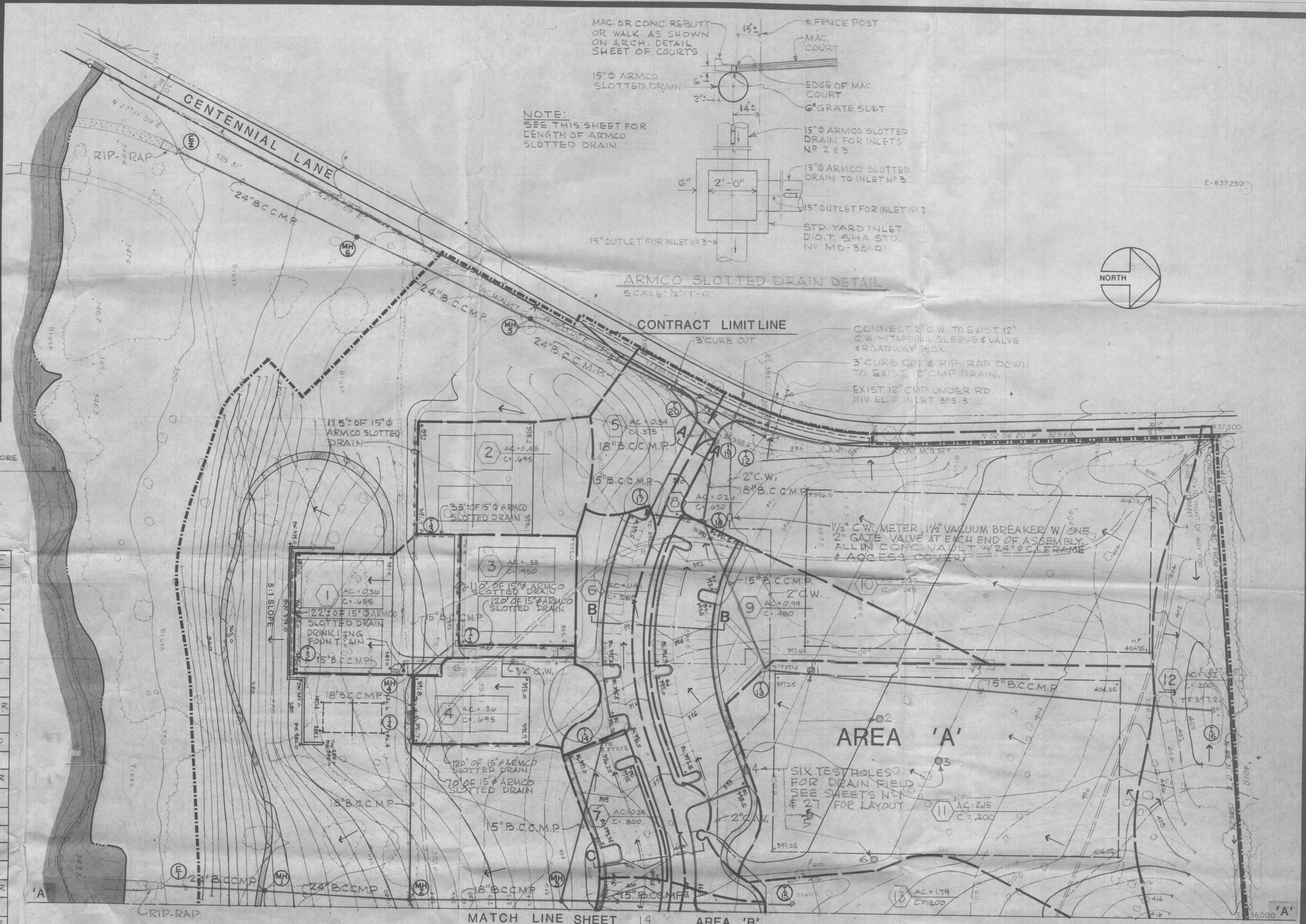
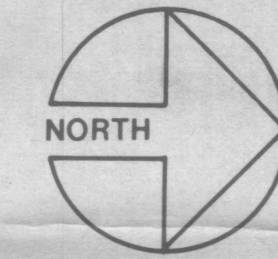
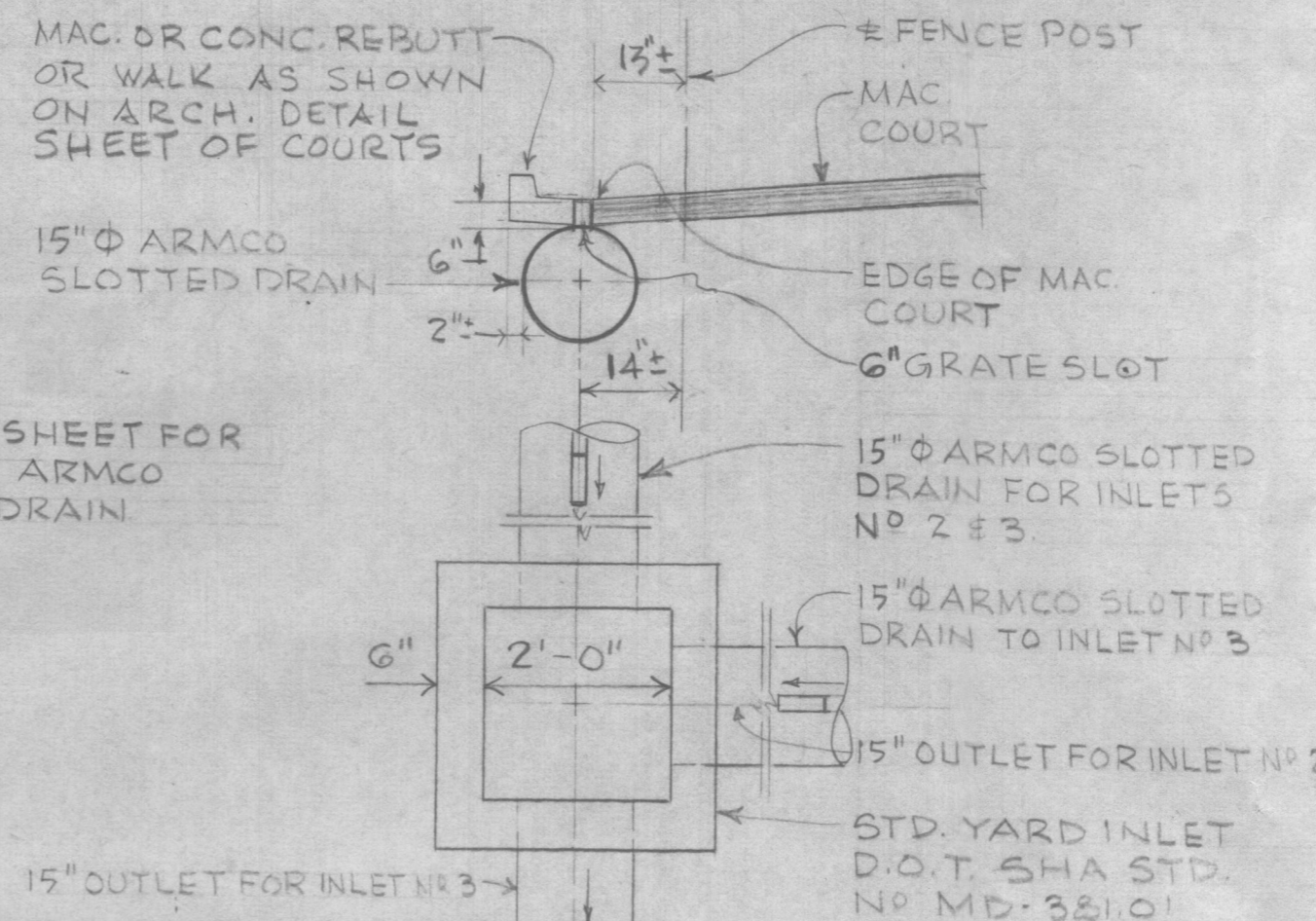
APPROVED: Howard County Office of Planning and Zoning

PLANNING DIRECTOR \_\_\_\_\_ DATE \_\_\_\_\_

CHIEF, DIVISION OF LAND DEVELOPMENT \_\_\_\_\_ DATE \_\_\_\_\_

Howard County, Md., Dept. of Public Works for the Dept. of Rec. and Parks, 3430 Court House Drive, Ellicott City, Maryland, Elect. Dist. No. 2, Howard County, Md., Tax Map No. 30 Liber 781 Folio 592, Parcel 9, 22.63 ac. Law Docket A-3652, Parcel 295, 61.45 ac.

Adjacent Property Owners - North Side  
Kenneth R. Storie  
Liber 805 Folio 588, Parcel 7  
Harry L. Holliday  
Liber 606 Folio 91, Parcel 311  
John Mikolasko  
Liber 612 Folio 543, Parcel 8



PROPOSED LAKE SHORE @ 345.5 BY OTHERS

STORM DRAIN STRUCTURE SCHEDULE						
NO	LOCATION	INV. IN	INV. OUT	TOP EL.	TYPE	
I-1	SEE SHEET 34		386.3	392.0	STD. YARD INLET MD. SRC 381.01	
I-2			380.5	384.7		
I-3			387.2	391.7		
I-4			377.3	373.6	391.5	
I-5	9+45 12' R		384.7	389.0	TANDEM DBL 'S'	
I-6	9+45 12' L		384.5	383.9	389.8	'A-5'
I-7	8+18 39' L		389.4	395.12	'A-5' W/ DEFLECTOR	
I-8	8+21 17' L		389.2	388.7	394.21	'A-5'
I-9	8+55 25' R		388.2 383.1	379.3	393.3	'A-5' DEPRESSED
I-10	SEE SHEET 14		395.8	399.7	DOUBLE 'S'	
I-11	6+52 39' L		394.8	393.2	399.6	'A-5' W/ DEFLECTOR
I-12	0+22 56' L		385.8	386.0	FLARE INLET	
I-13	SEE SHEET 13		384.8	383.2	397.0	'S' INLET
I-14	3+76 43' R		391.3	396.25	'A-5' DEPRESSED	
I-15	SEE SHEET 13		395.1	401.0	'S' INLET	
I-16	SEE SHEET 13		391.8	397.2	'S' INLET	
I-17	1+49 16' R		387.3	391.8	'A-5' W/ DEFLECTOR	
I-18	1+29 42' L		380.6	379.5	391.5	'A-5' DEPRESSED
I-19	0+52 16' L		378.4	377.4	389.3	'A-5' W/ DEFLECTOR
I-20	0+25 54' R		383.1 376.0	374.2	388.25	'S' INLET
MH-1	SEE SHEET 13		359.0	353.7	366.0	
MH-2			377.1 376.9 376.8	364.3	381.6	
MH-3			382.7 381.5 381.5	383.5	397.0	
MH-4			385.7 379.5	378.3	390.0	
MH-5			372.6	368.9	390.0	
MH-6			363.9	357.6	368.0	

- LEGEND
- ⊙ I STORM INLET NO 1
  - ⊙ MH MANHOLE NO 1
  - ⊙ E EFFLUENT END SECTION NO 1
  - C.W. COLD WATER
  - ⊙ AC STORM DRAIN AREA NO 1

**LD LAND DESIGN / RESEARCH, INC.**  
5560 STERRET PLACE, SUITE 300  
COLUMBIA, MARYLAND 21044

**AREA 'A' STORM DRAINAGE MAP, STORM DRAINS, SANITARY & COLD WATER CENTENNIAL PARK PHASE TWO - CENTENNIAL LANE AREA**

DATE	REVISIONS:	SHEET NO.
SCALE	ONE INCH = 50' ON	<b>13</b>
DRAWN		OF
CHECKED		

APPROVED: For public Water, Public Sewerage and Storm Drainage Systems and Roads

HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

DIRECTOR \_\_\_\_\_ DATE \_\_\_\_\_

CHIEF, BUREAU OF ENGINEERING \_\_\_\_\_ DATE \_\_\_\_\_

APPROVED: For public/private Water and Public/Private Sewerage Systems

HOWARD COUNTY HEALTH DEPARTMENT

COUNTY HEALTH OFFICER \_\_\_\_\_ DATE \_\_\_\_\_

APPROVED: Howard County Office of Planning and Zoning

PLANNING DIRECTOR \_\_\_\_\_ DATE \_\_\_\_\_

CHIEF, DIVISION OF LAND DEVELOPMENT \_\_\_\_\_ DATE \_\_\_\_\_

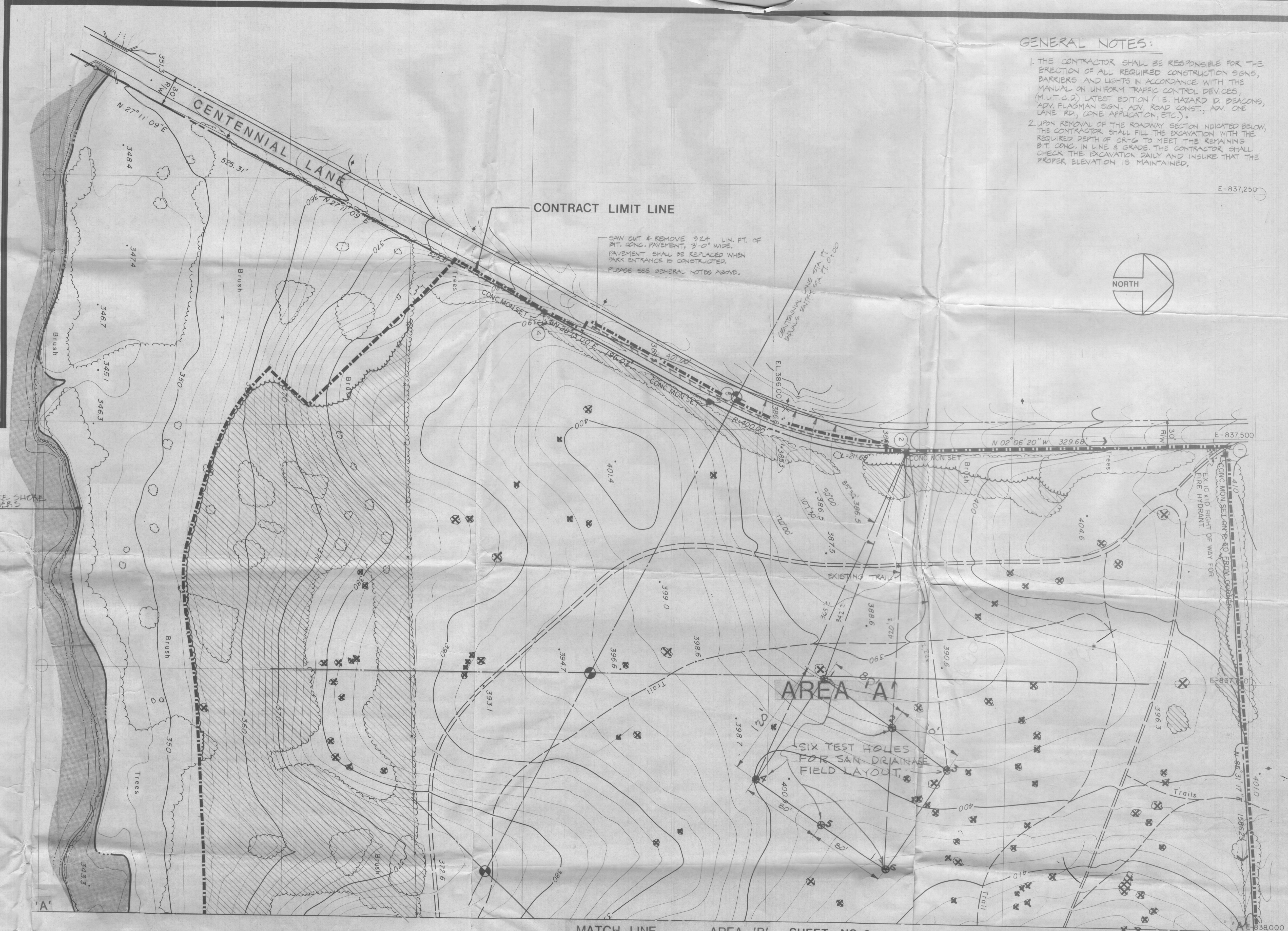
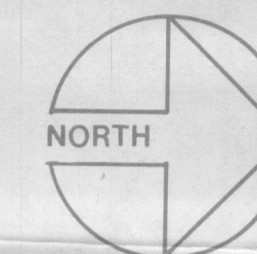
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Adjacent Property Owners - North Side  
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 Harry L. Holliday  
 Liber 606 Folio 91, Parcel 311  
 John Mikolasko  
 Liber 612 Folio 543, Parcel 8

**GENERAL NOTES:**

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE ERECTION OF ALL REQUIRED CONSTRUCTION SIGNS, BARRIERS AND LIGHTS IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (M.U.T.C.D.) LATEST EDITION (I.E. HAZARD ID. BEACONS, ADV. FLAGMAN SIGN, ADV. ROAD CONST., ADV. ONE LANE RD., CONE APPLICATION, ETC.).
2. UPON REMOVAL OF THE ROADWAY SECTION INDICATED BELOW, THE CONTRACTOR SHALL FILL THE EXCAVATION WITH THE REQUIRED DEPTH OF CR-G TO MEET THE REMAINING BIT. CONC. IN LINE & GRADE. THE CONTRACTOR SHALL CHECK THE EXCAVATION DAILY AND INSURE THAT THE PROPER ELEVATION IS MAINTAINED.

E-837,250



**LEGEND**

- CONTRACT LIMIT LINE
- EXISTING PAVEMENT TO BE REMOVED
- EXISTING TREES TO BE REMOVED
- EXISTING VEGETATION MASSES TO BE REMOVED
- EXISTING BIT. CONC. PATH
- EXISTING FENCE
- EXISTING MONUMENT
- BORING LOCATION

- LEGEND:**
- EXISTING VEGETATION MASS TO BE REMOVED
  - EXISTING TREES TO BE REMOVED
  - EXISTING ROADWAY PAVEMENT TO BE REMOVED

MATCH LINE AREA 'B' SHEET NO. 2

**LD LAND DESIGN / RESEARCH, INC.**  
 5560 STERRET PLACE, SUITE 300  
 COLUMBIA, MARYLAND 21044

EXT'G. CONDITIONS/DEMO. PLAN AREA 'A'  
**CENTENNIAL PARK**  
 PHASE TWO - CENTENNIAL LANE AREA

DATE	REVISIONS:	SHEET NO.
SCALE	ONE INCH = 500'	<b>1</b>
DRAWN		OF
CHECKED		

APPROVED: For public Water, Public Sewerage and Storm Drainage Systems and Roads

HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

DIRECTOR \_\_\_\_\_ DATE \_\_\_\_\_

CHIEF, BUREAU OF ENGINEERING \_\_\_\_\_ DATE \_\_\_\_\_

APPROVED: For public/private Water and Public/Private Sewerage Systems

HOWARD COUNTY HEALTH DEPARTMENT

COUNTY HEALTH OFFICER \_\_\_\_\_ DATE \_\_\_\_\_

APPROVED: Howard County Office of Planning and Zoning

PLANNING DIRECTOR \_\_\_\_\_ DATE \_\_\_\_\_

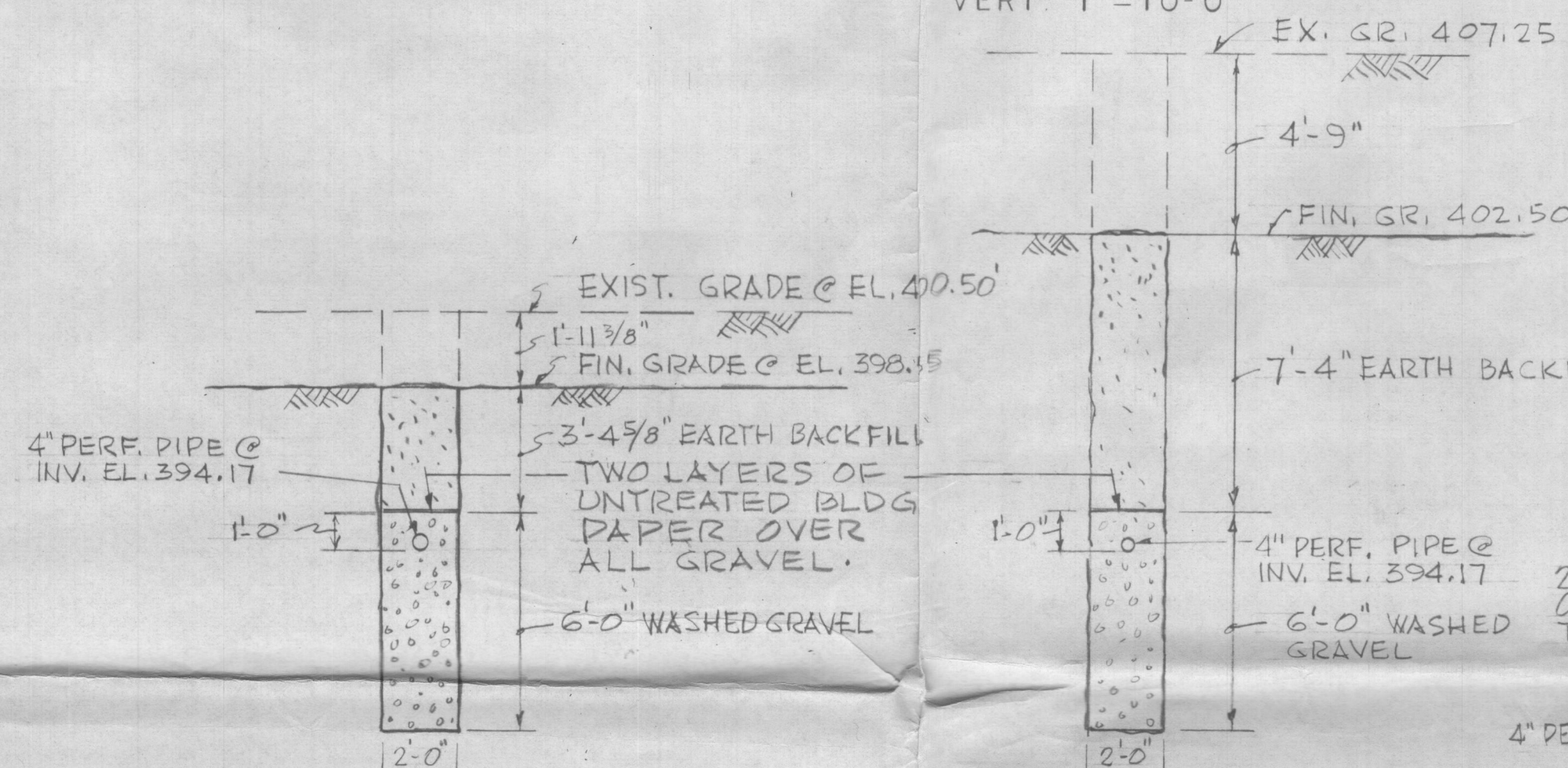
CHIEF, DIVISION OF LAND DEVELOPMENT \_\_\_\_\_ DATE \_\_\_\_\_

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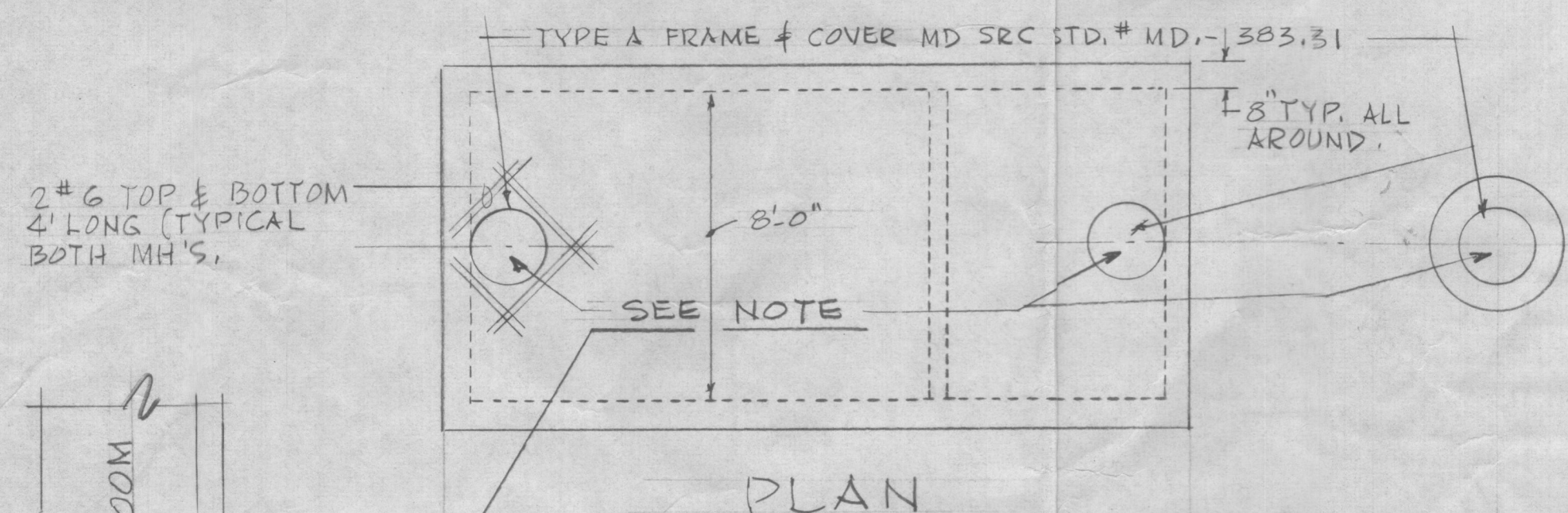
PROFILE OF ROAD TO PARKING AREA

HORIZ. 1"=50'-0"  
VERT. 1"=10'-0"



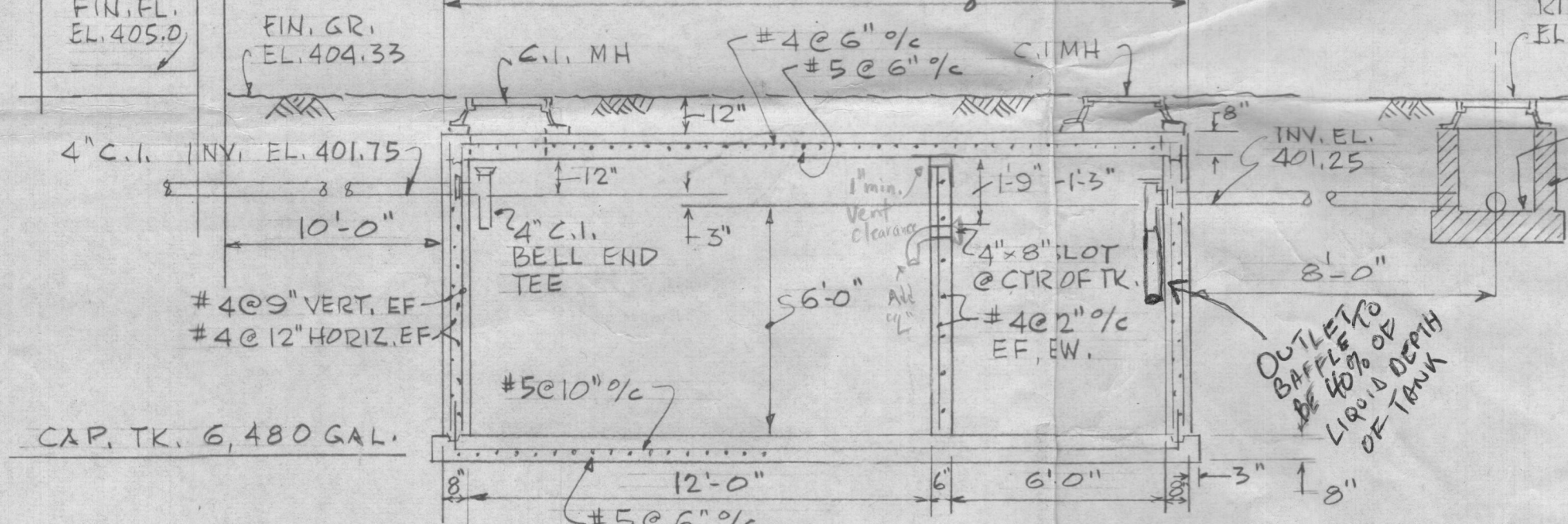
SECTION "A-A" SCALE: 1/4"=1'-0"

SECTION "B-B" SCALE: 1/4"=1'-0"



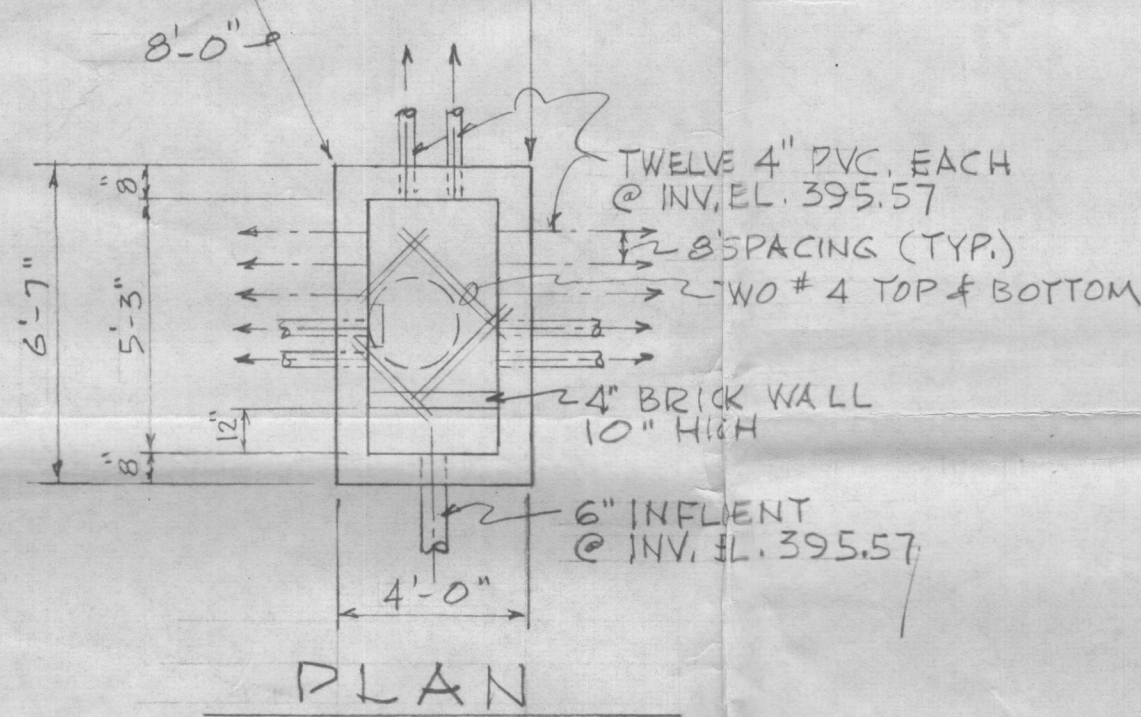
PLAN

NOTE: IT IS THE INTENT THAT ALL M.H. COVERS BE KEPT APPROX. 1" ABOVE FIN. GR. & BE WATERPROOFED WITH DUCT SEAL OR COLD TAR AROUND PERIMETER TO KEEP OUT GROUNDWATER.

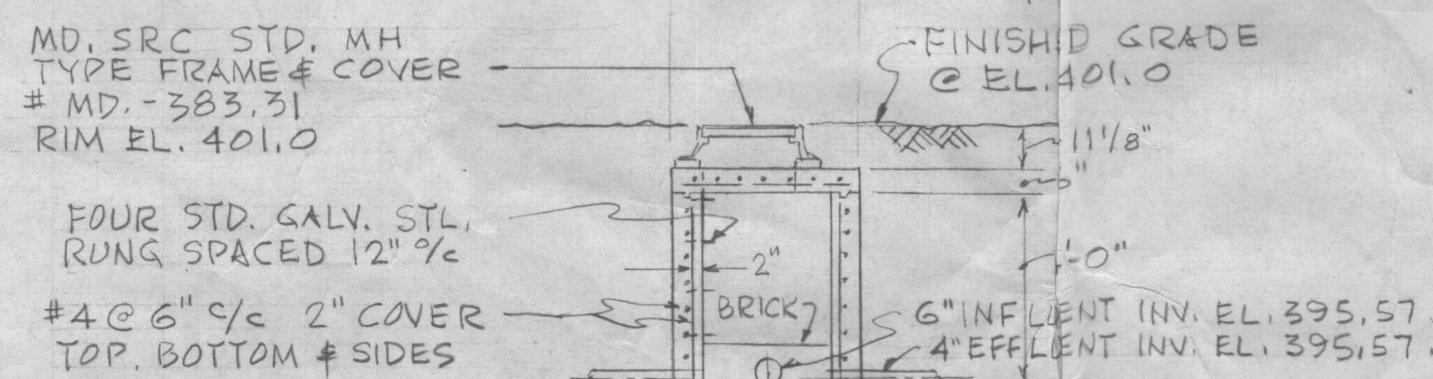


ELEVATION - SEPTIC TANK

SCALE: 1/4"=1'-0"

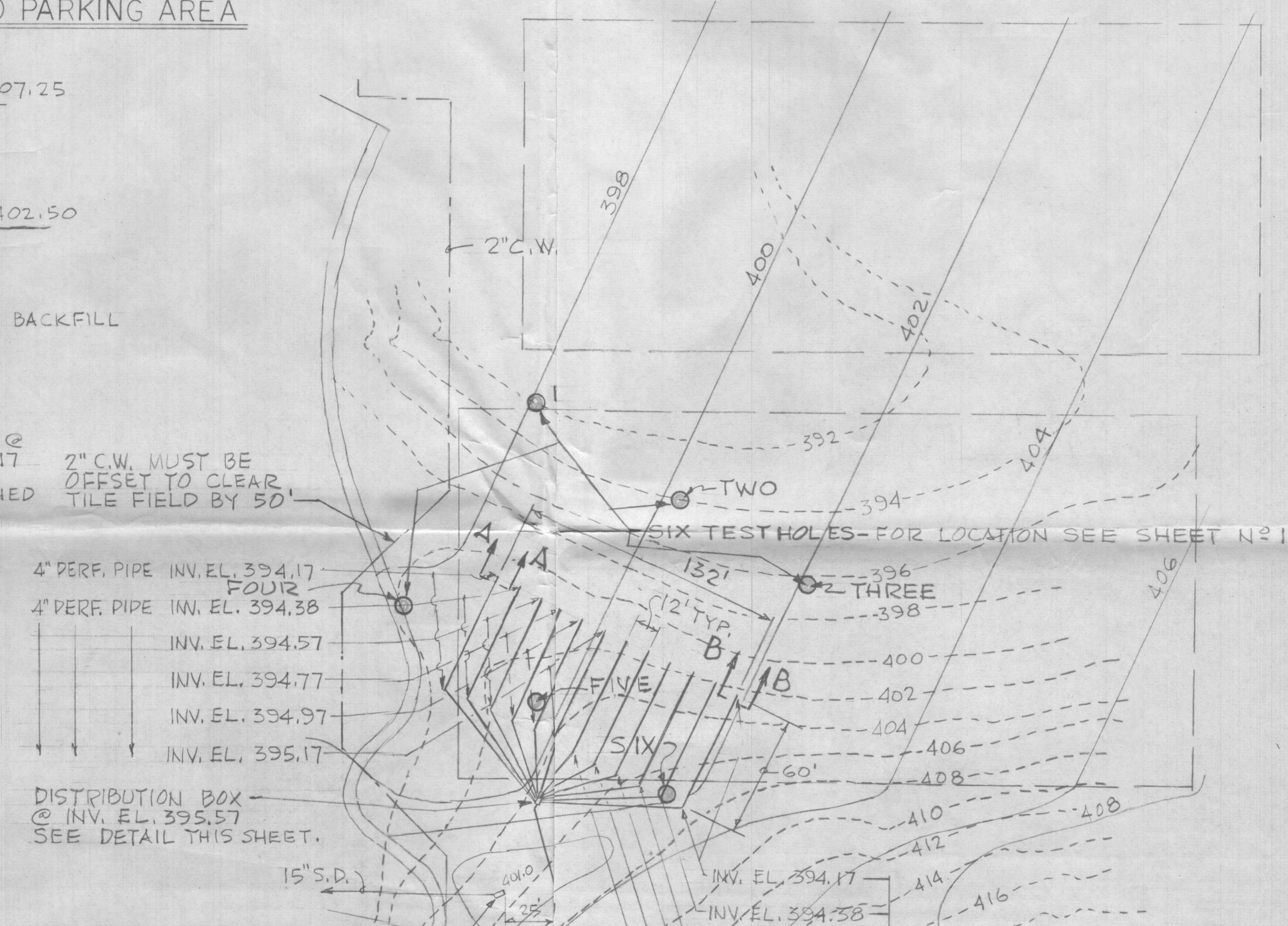


PLAN



ELEVATION DISTRIBUTION CHAMBER

SCALE: 1/4"=1'-0"



NOTE: CONSTRUCTION OF THE DRAIN FIELD SHALL NOT BEGIN UNTIL FINISHED GRADES HAVE BEEN COMPLETED IN THE SOCCER FIELD AREA OF THIS SYSTEM.

NOTE: ALL 4" PERFORATED PIPE DRAINS SHALL BE INSTALLED LEVEL FROM THESE ELEVATIONS TO THE END - 60' DISTANT.

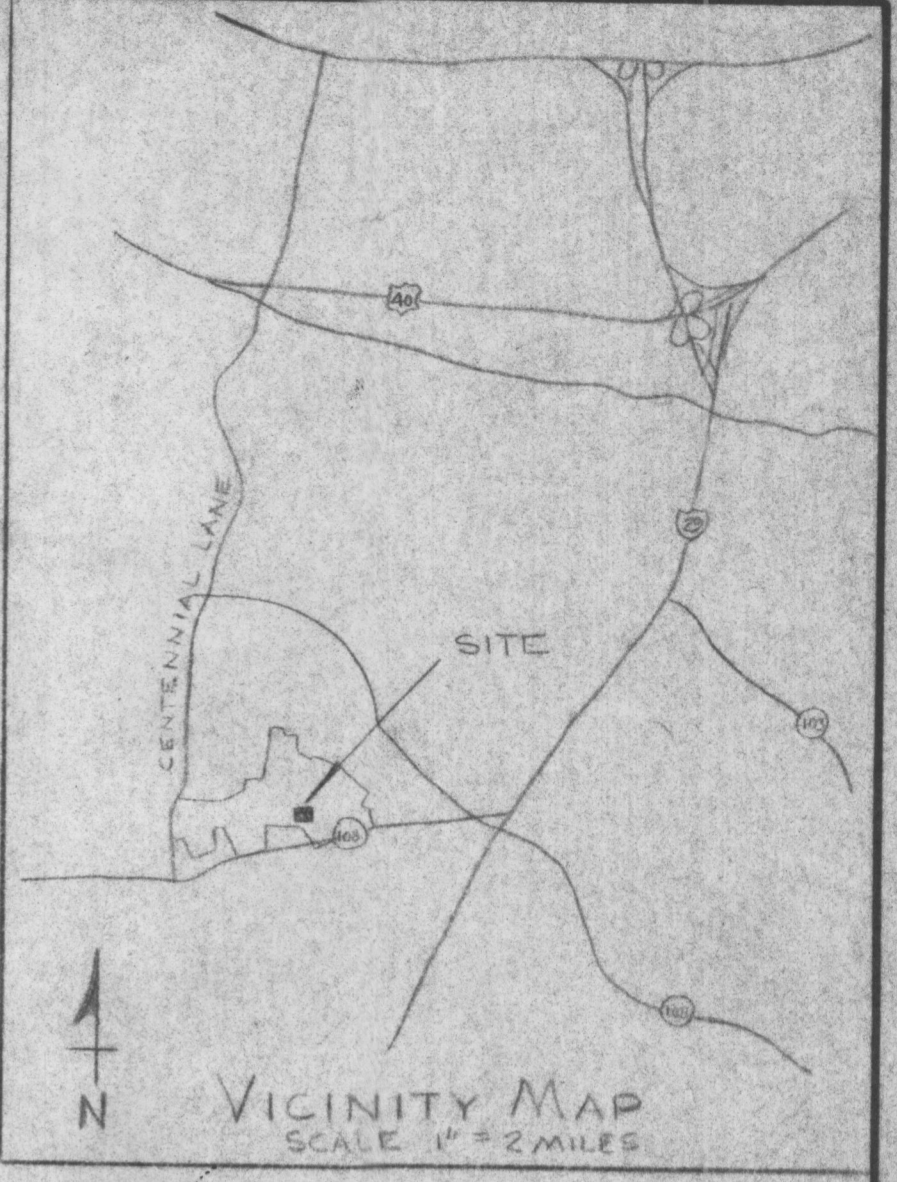
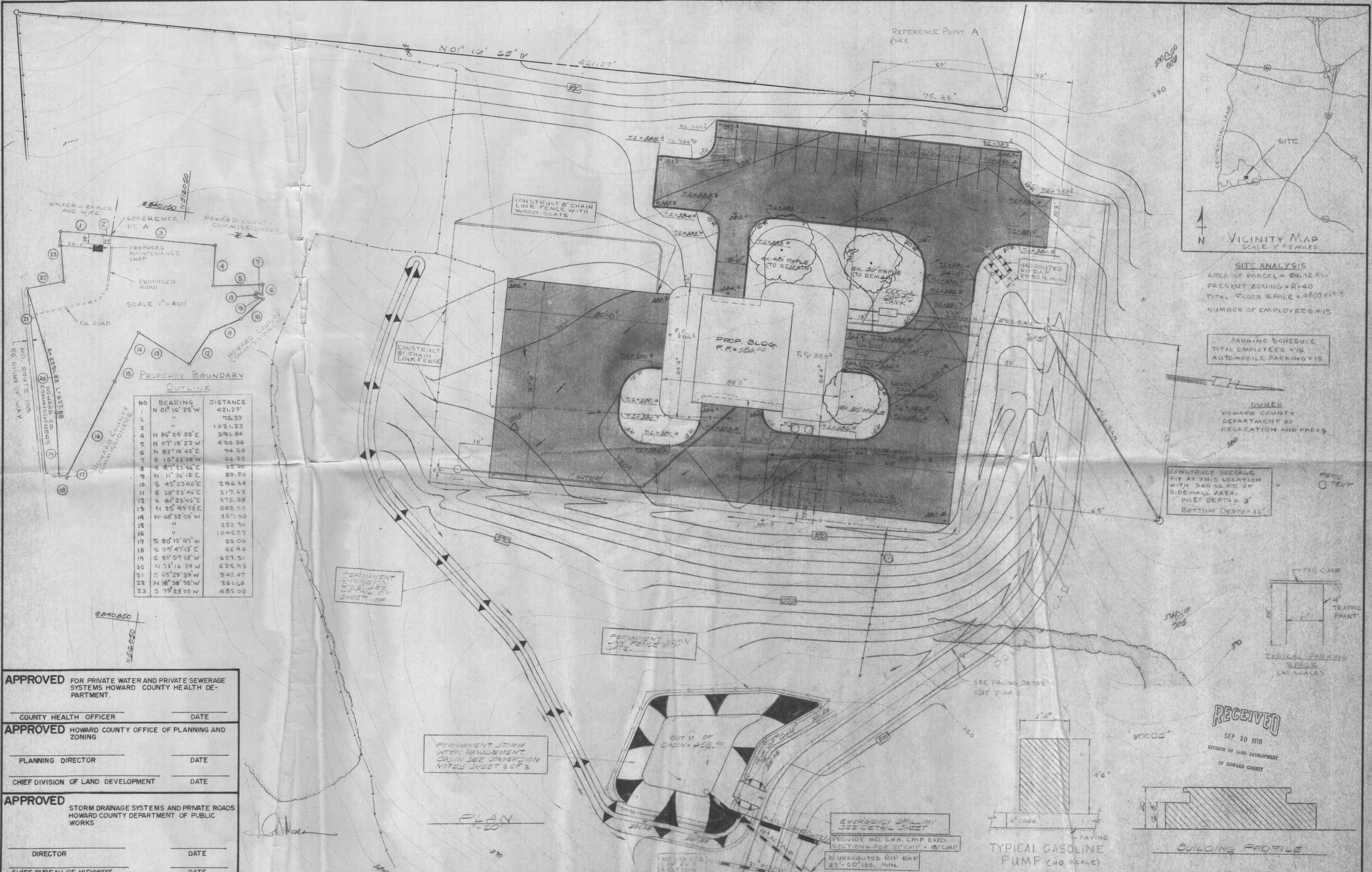
PLAN - SANITARY SCALE: 1"=50'

**LD LAND DESIGN / RESEARCH, INC.**  
5560 STERRET PLACE, SUITE 300  
COLUMBIA, MARYLAND 21044

PROFILE - CENTER LINE OF ROAD TO PARKING AREA PLUS SEPTIC TANK & TILE FIELD INCL. MH & DISTRIBUTION BOX.

**CENTENNIAL PARK PHASE TWO - CENTENNIAL LANE AREA**

DATE	REVISIONS:	SHEET NO.
SCALE AS SHOWN		<b>27</b>
DRAWN M.H.		OF
CHECKED		

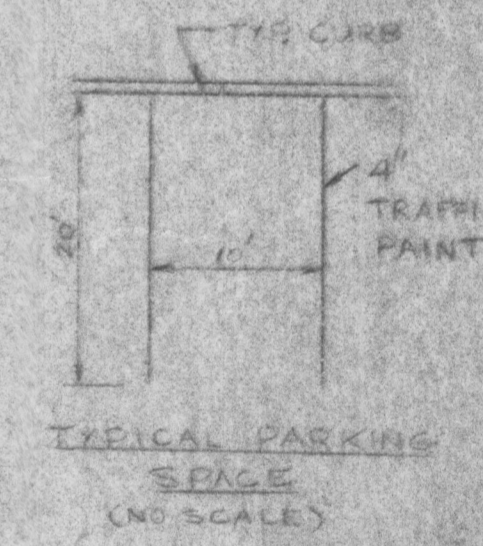


**SITE ANALYSIS**  
 AREA OF PARCEL = 54.12 AC.  
 PRESENT ZONING = R-40  
 TOTAL FLOOR SPACE = 4800 SQ. FT.  
 NUMBER OF EMPLOYEES = 15

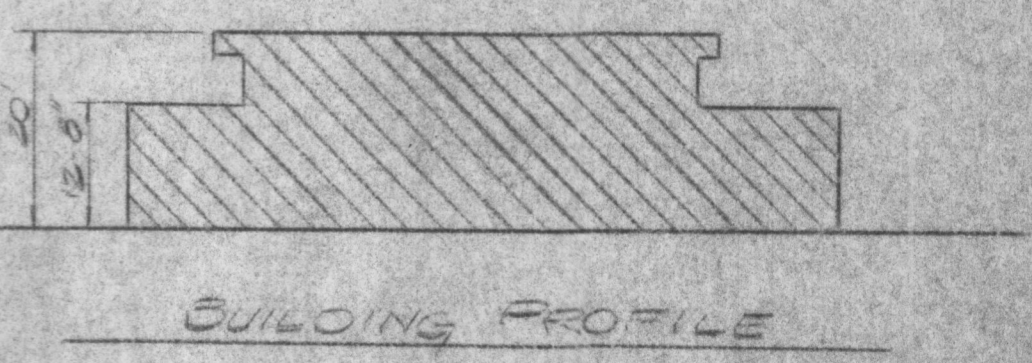
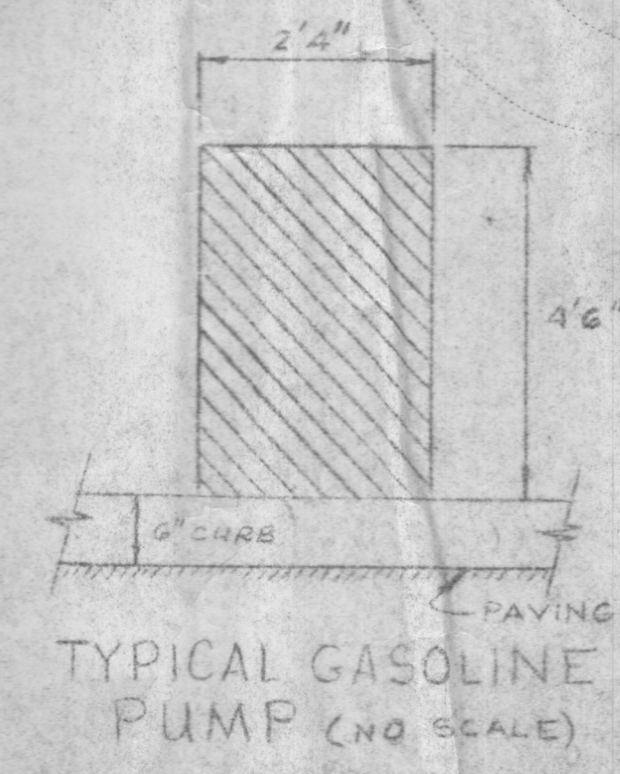
**PARKING SCHEDULE**  
 TOTAL EMPLOYEES = 15  
 AUTOMOBILE PARKING = 15

**OWNER**  
 HOWARD COUNTY  
 DEPARTMENT OF RECREATION AND PARKS

CONSTRUCT SEWAGE PIT AT THIS LOCATION WITH 360 SQ. FT. OF SIDEWALL AREA. INLET DEPTH = 3' BOTTOM DEPTH = 12'



**RECEIVED**  
 SEP 10 1978  
 DIVISION OF LAND DEVELOPMENT  
 OF HOWARD COUNTY

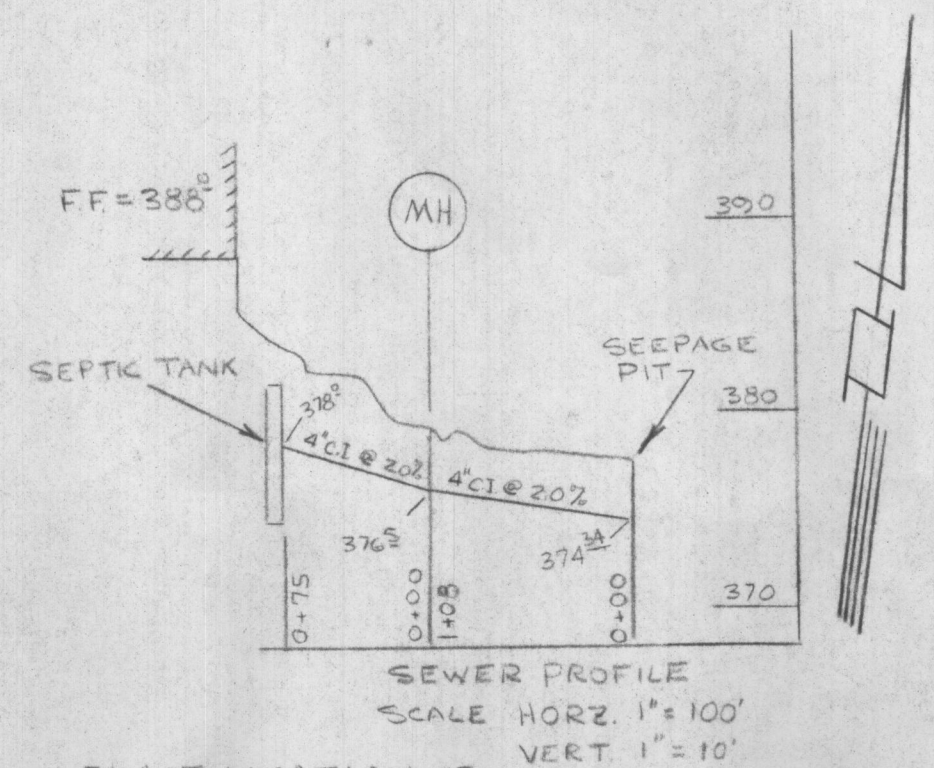


NO.	BEARING	DISTANCE
1	N 01° 16' 25" W	421.27'
2	"	75.33
3	"	1031.23
4	N 86° 29' 03" E	391.84
5	N 07° 18' 22" W	490.36
6	N 82° 15' 42" E	96.50
7	S 10° 22' 05" W	66.50
8	S 87° 23' 46" E	35.00
9	N 11° 36' 15" E	82.50
10	S 45° 23' 46" E	296.34
11	S 28° 23' 46" E	317.43
12	S 61° 23' 46" E	375.38
13	N 25° 49' 53" E	588.50
14	N 68° 52' 03" W	257.90
15	"	252.91
16	"	1046.57
17	S 80° 12' 47" W	50.00
18	S 09° 47' 13" E	66.40
19	S 81° 07' 28" W	627.51
20	N 73° 16' 34" W	625.93
21	S 45° 25' 39" W	542.47
22	N 18° 38' 35" W	361.60
23	S 79° 28' 05" W	485.00

**APPROVED** FOR PRIVATE WATER AND PRIVATE SEWERAGE SYSTEMS HOWARD COUNTY HEALTH DEPARTMENT.  
 COUNTY HEALTH OFFICER \_\_\_\_\_ DATE \_\_\_\_\_

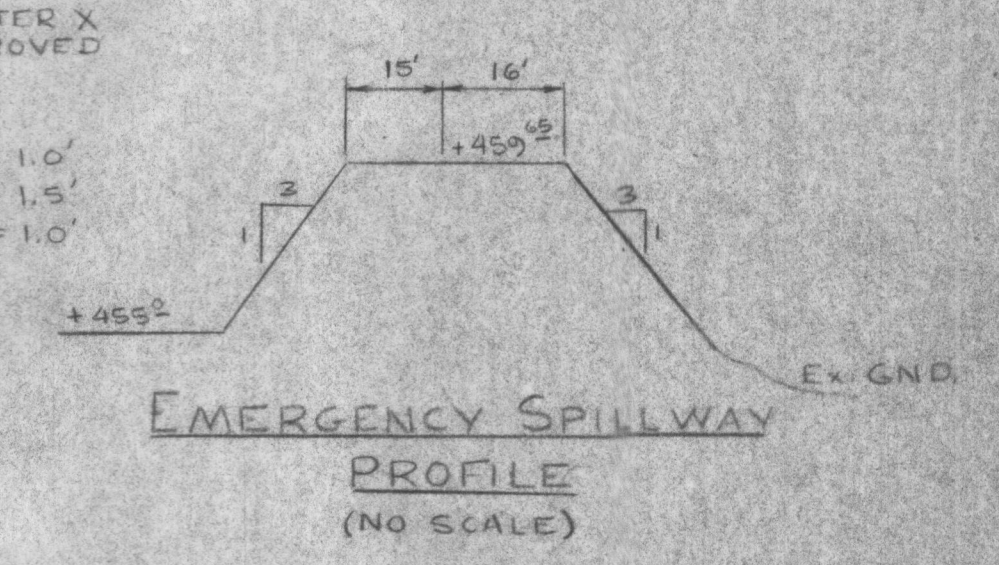
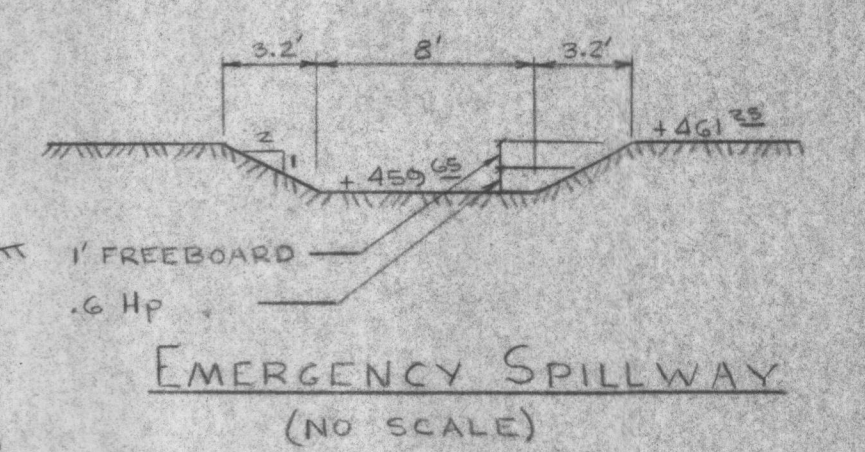
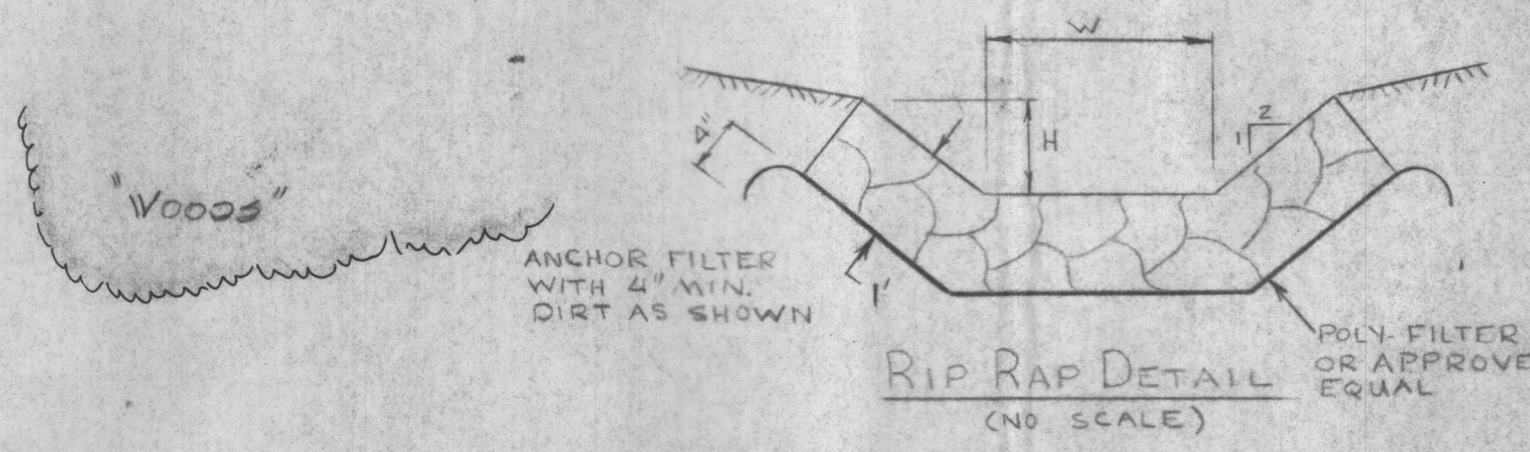
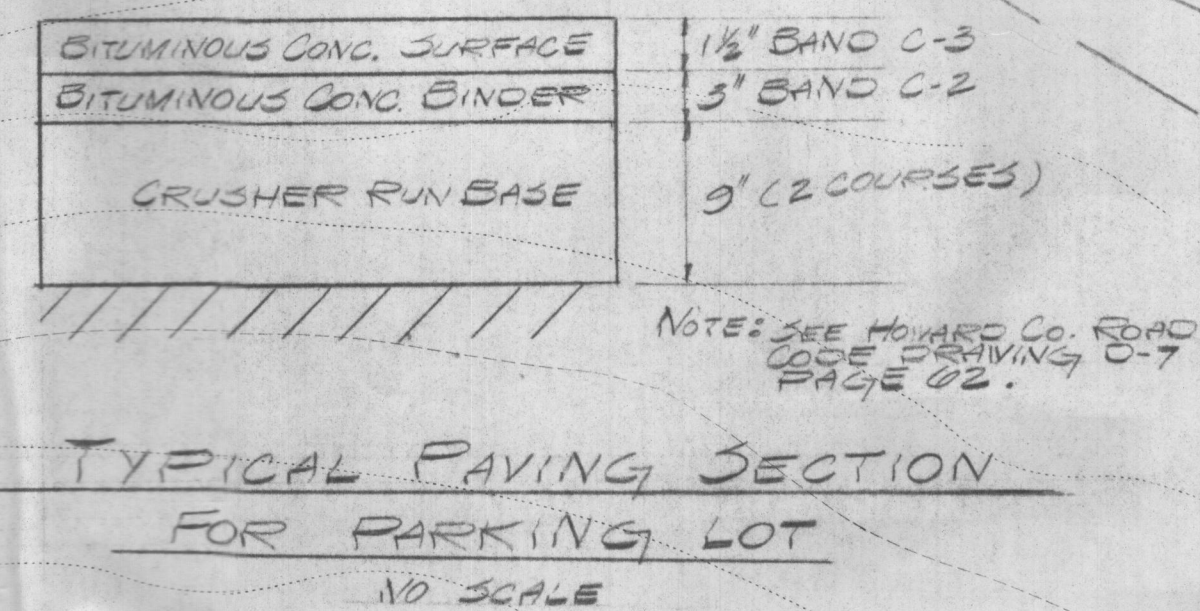
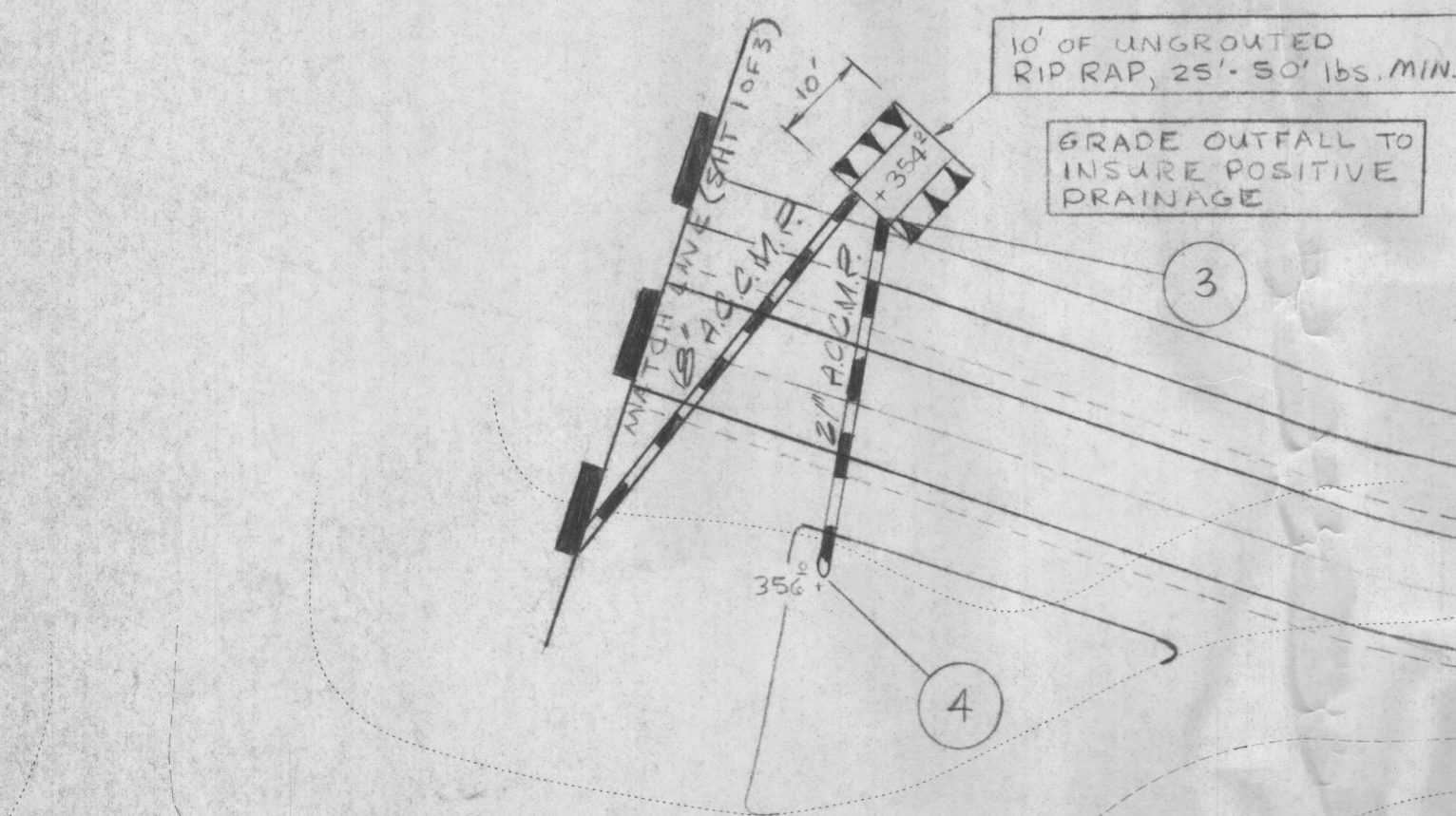
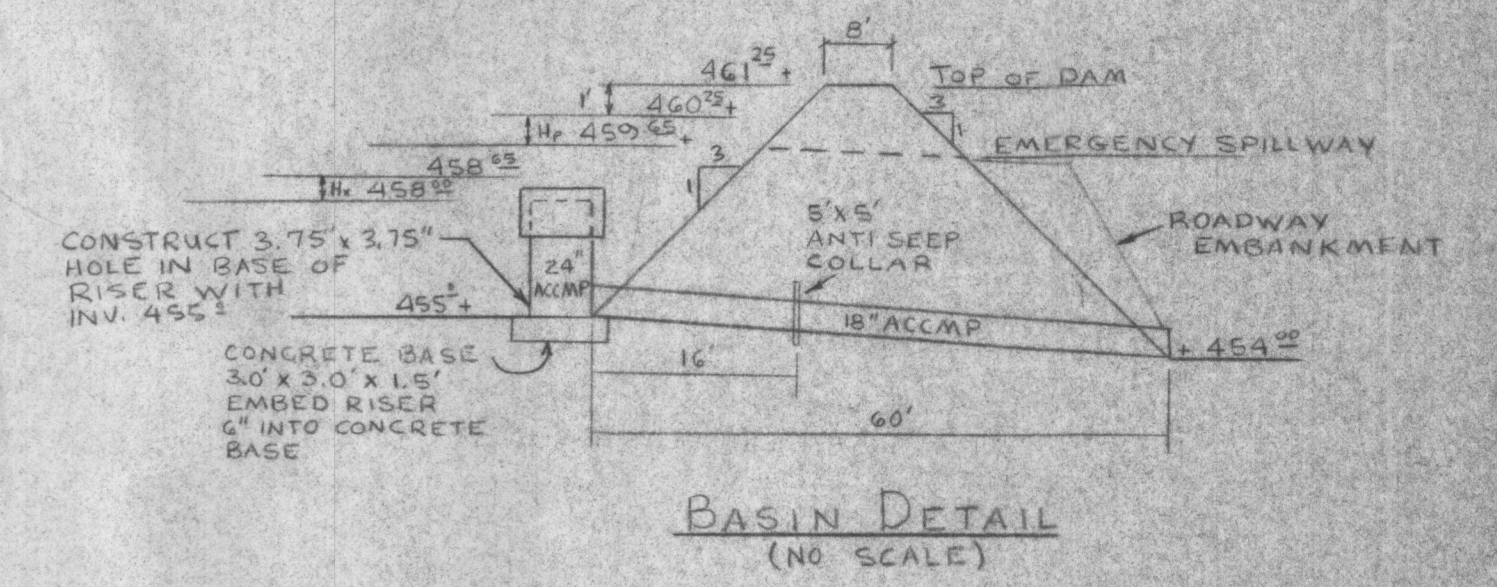
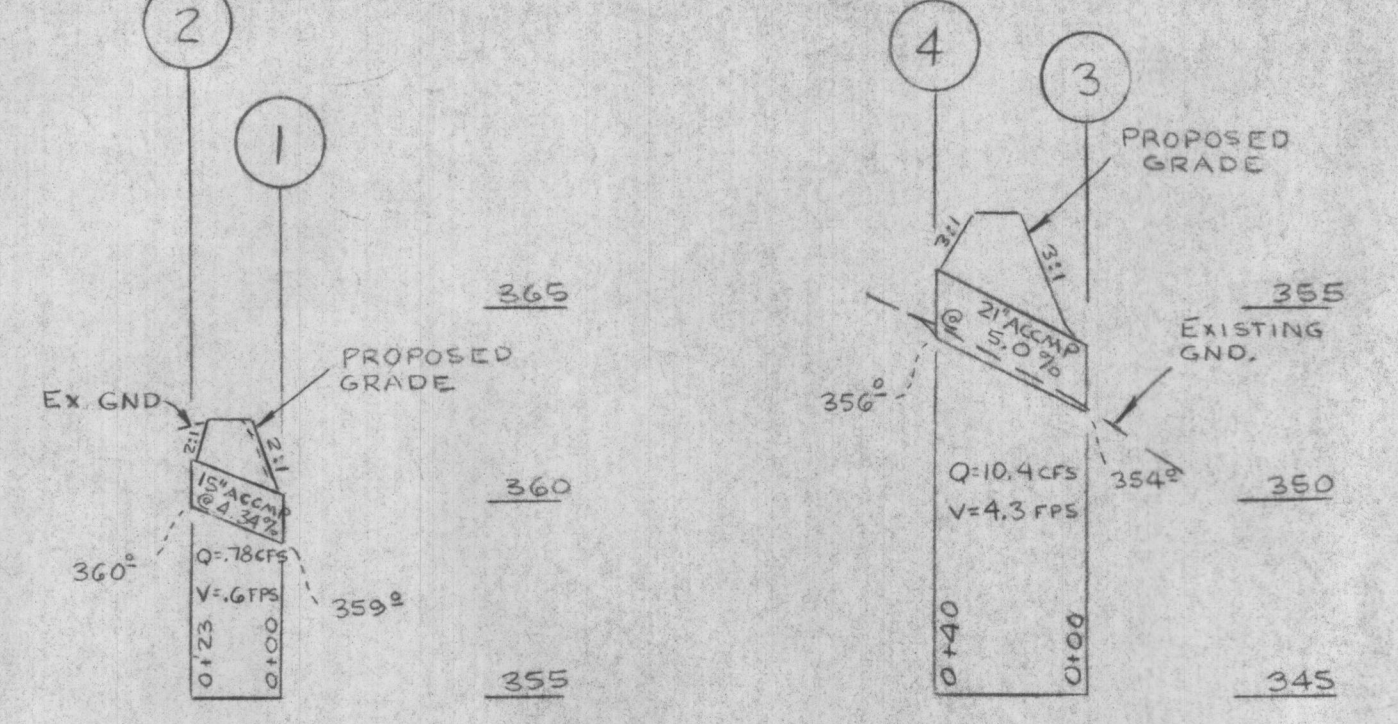
**APPROVED** HOWARD COUNTY OFFICE OF PLANNING AND ZONING.  
 PLANNING DIRECTOR \_\_\_\_\_ DATE \_\_\_\_\_  
 CHIEF DIVISION OF LAND DEVELOPMENT \_\_\_\_\_ DATE \_\_\_\_\_

**APPROVED** STORM DRAINAGE SYSTEMS AND PRIVATE ROADS HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS.  
 DIRECTOR \_\_\_\_\_ DATE \_\_\_\_\_  
 CHIEF BUREAU OF HIGHWAYS \_\_\_\_\_ DATE \_\_\_\_\_



PIPE SCHEDULE

SIZE	TYPE	LENGTH
15"	ACCM P	23.0'
18"	ACCM P	60.0'
21"	ACCM P	40.0'
24"	ACCM P	3.5'



TYPICAL ROADWAY SECTION  
NO SCALE

TYPICAL PAVING SECTION  
FOR PARKING LOT  
NO SCALE

RIP RAP DETAIL  
(NO SCALE)

EMERGENCY SPILLWAY  
(NO SCALE)

EMERGENCY SPILLWAY  
PROFILE  
(NO SCALE)

REVIEWED FOR NAME S.C.D. AND MEETS TECHNICAL REQUIREMENTS

SIGNATURE DATE

U.S. SOIL CONSERVATION SERVICE

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.

APPROVED HOWARD S.C.D. DATE

OWNER  
HOWARD COUNTY  
DEPARTMENT OF  
RECREATION AND PARKS

APPROVED FOR PRIVATE WATER AND PRIVATE SEWERAGE SYSTEMS HOWARD COUNTY HEALTH DEPARTMENT.

COUNTY HEALTH OFFICER DATE

APPROVED HOWARD COUNTY OFFICE OF PLANNING AND ZONING

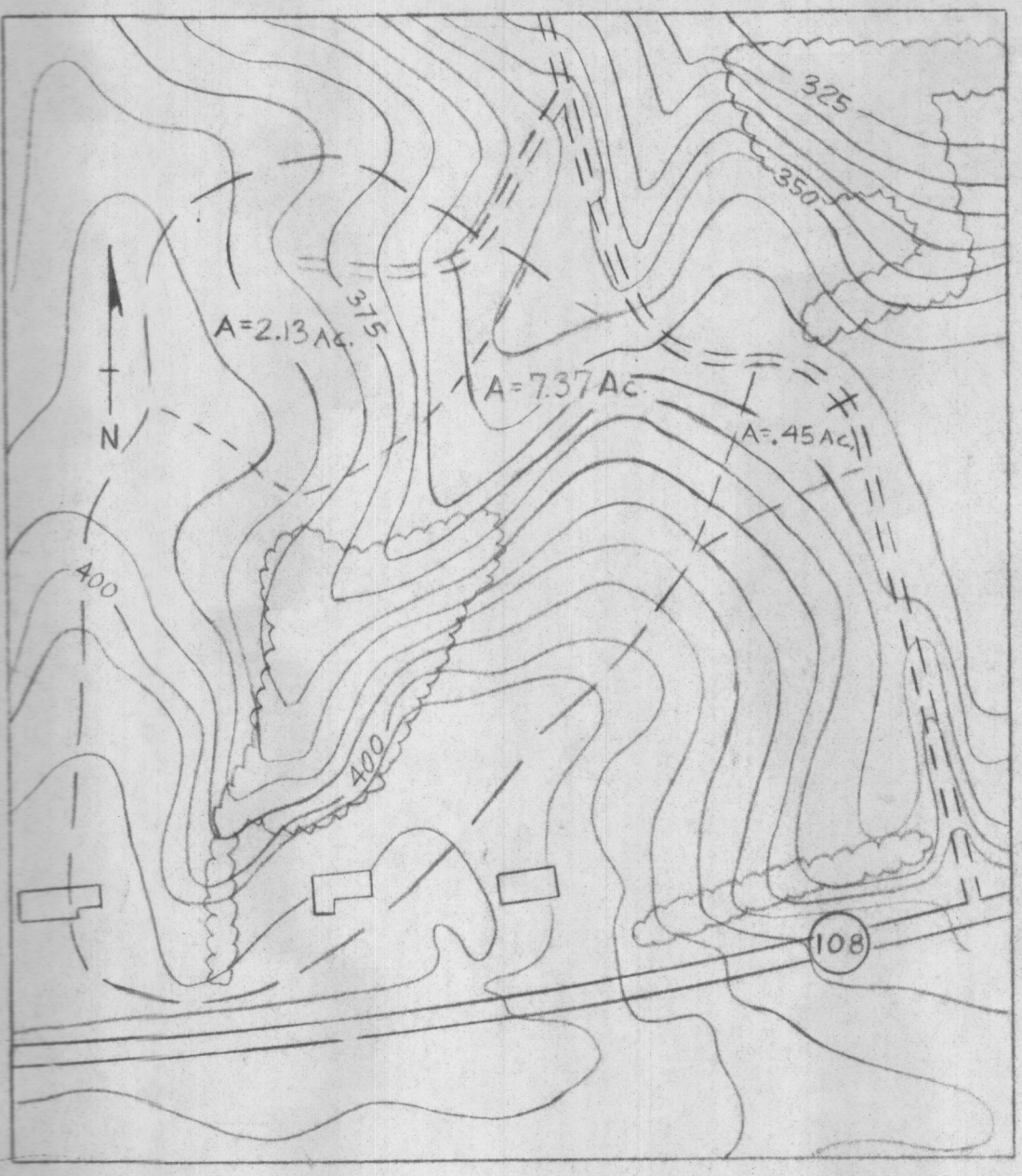
PLANNING DIRECTOR DATE

CHIEF DIVISION OF LAND DEVELOPMENT DATE

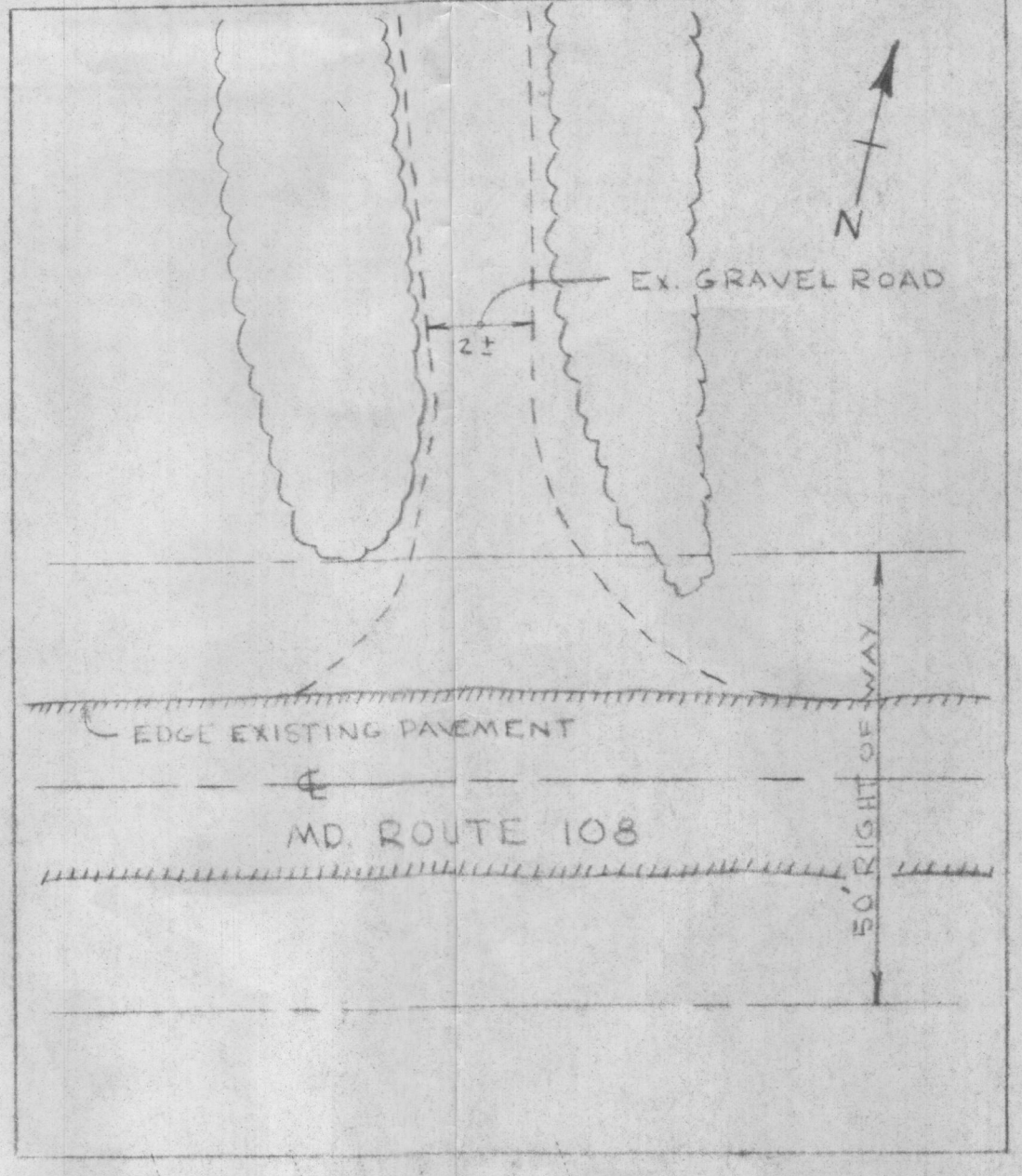
APPROVED STORM DRAINAGE SYSTEMS AND PRIVATE ROADS HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

DIRECTOR DATE

CHIEF BUREAU OF HIGHWAYS DATE



DEVELOPER'S CERTIFICATION



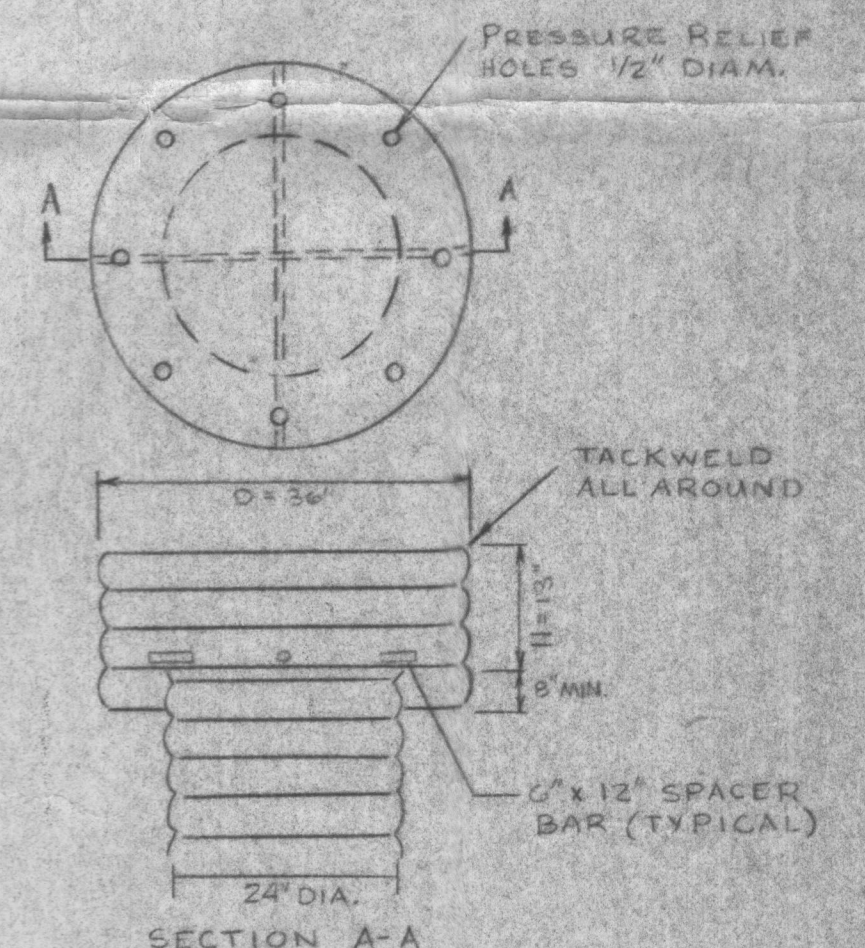
ENGINEER'S CERTIFICATION

"I CERTIFY THAT ALL DEVELOPMENT AND/OR CONSTRUCTION WILL BE DONE IN ACCORDANCE WITH THIS PLAN OF DEVELOPMENT AND PLAN FOR EROSION AND SEDIMENT CONTROL, AND I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY HOWARD SOIL CONSERVATION DISTRICT OR THEIR AUTHORIZED AGENTS AS ARE DEEMED NECESSARY. DEVIATION FROM THIS PLAN WILL NOT BE MADE UNLESS AUTHORIZED BY THE HOWARD SOIL CONSERVATION DISTRICT."

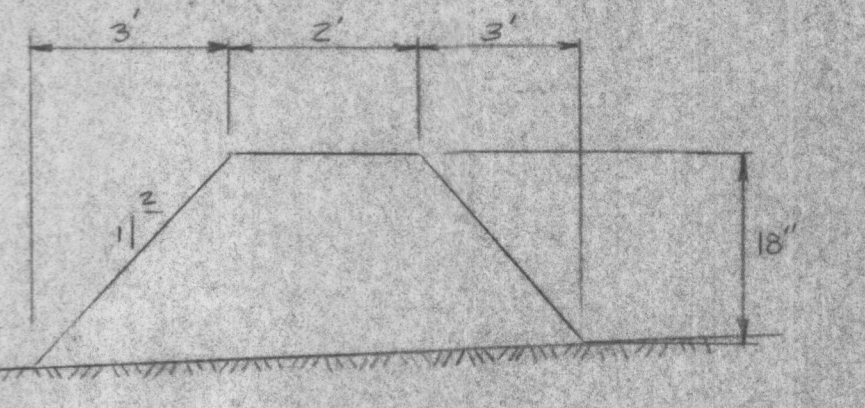
"I CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT."

Signature of Developer: Theodore K. Schaefer  
DATE: 9/3/76

Signature of Engineer: [Signature]  
DATE: 8-23-76



CONCENTRIC TRASH RACK  
AND  
ANTI-VORTEX DEVICE  
(NO SCALE)



EARTH DIVERSION DIKE  
(NO SCALE)

DANIEL BENNETT AND ASSOCIATES AIA ARCHITECTS PLANNERS  
COLUMBIA, MARYLAND TEL. 301-730-1766

MACRIS-FOWLER & ASSOCIATES  
ENGINEERS, SURVEYORS, PLANNERS  
27 W. JEFFERSON ST. ROCKVILLE, MD. 20850, TEL. (301) 340-8705

DEPARTMENT OF RECREATION & PARKS  
HOWARD COUNTY, MARYLAND  
DATE DIRECTOR

CAPITAL PROJECT N-43014  
AGREEMENT NO.

SITE DEVELOPMENT  
PLAN

CENTENNIAL PARK  
MAINTENANCE SHOP AND STORAGE BUILDING  
TAX MAP 30 LIBER 513 FOLIO 218 PARCEL III  
ELECTION DISTRICT NO. 2

DRAWING NO. 3 OF 3  
SCALE 1" = 20'  
DATE 8-23-76