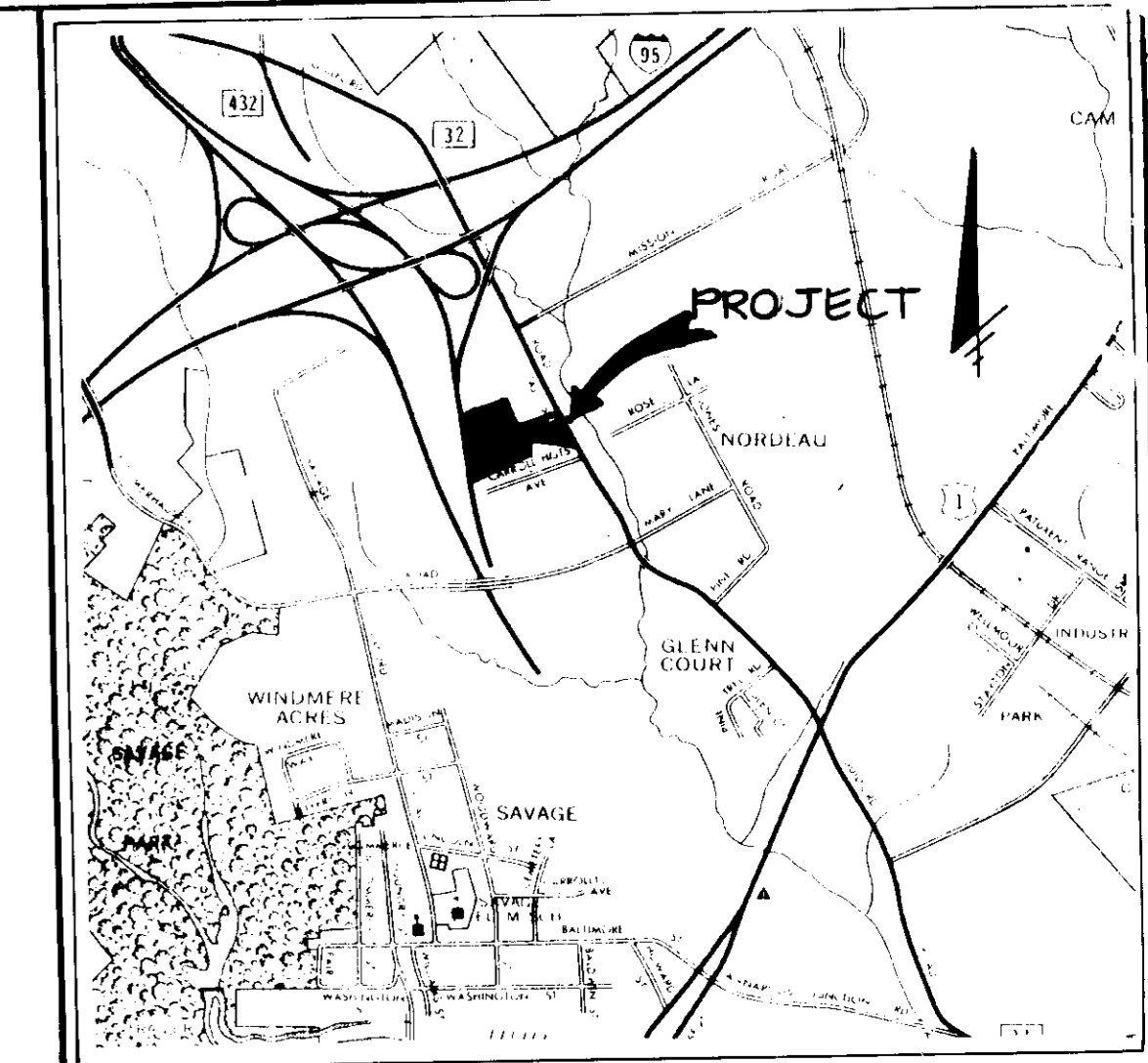


SHEET INDEX	DESCRIPTION
1	TITLE SHEET
2	SITE DEVELOPMENT PLAN
3	SITE DEVELOPMENT PLAN
4	SEWER AND STORM DRAIN PROFILES
5	STORM DRAIN PROFILES AND DETAIL SHEET
6	STORM WATER MANAGEMENT AND SEDIMENT CONTROL DETAILS & PROFILES
7	SEDIMENT CONTROL PLAN AND DRAINAGE AREA MAP
8	SEDIMENT CONTROL PLAN AND DRAINAGE AREA MAP
9	PLANTING PLAN
10	PLANTING PLAN

# APARTMENT COMPLEX SITE DEVELOPMENT PLAN

# NORTH GREENBRIER

## 6TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND

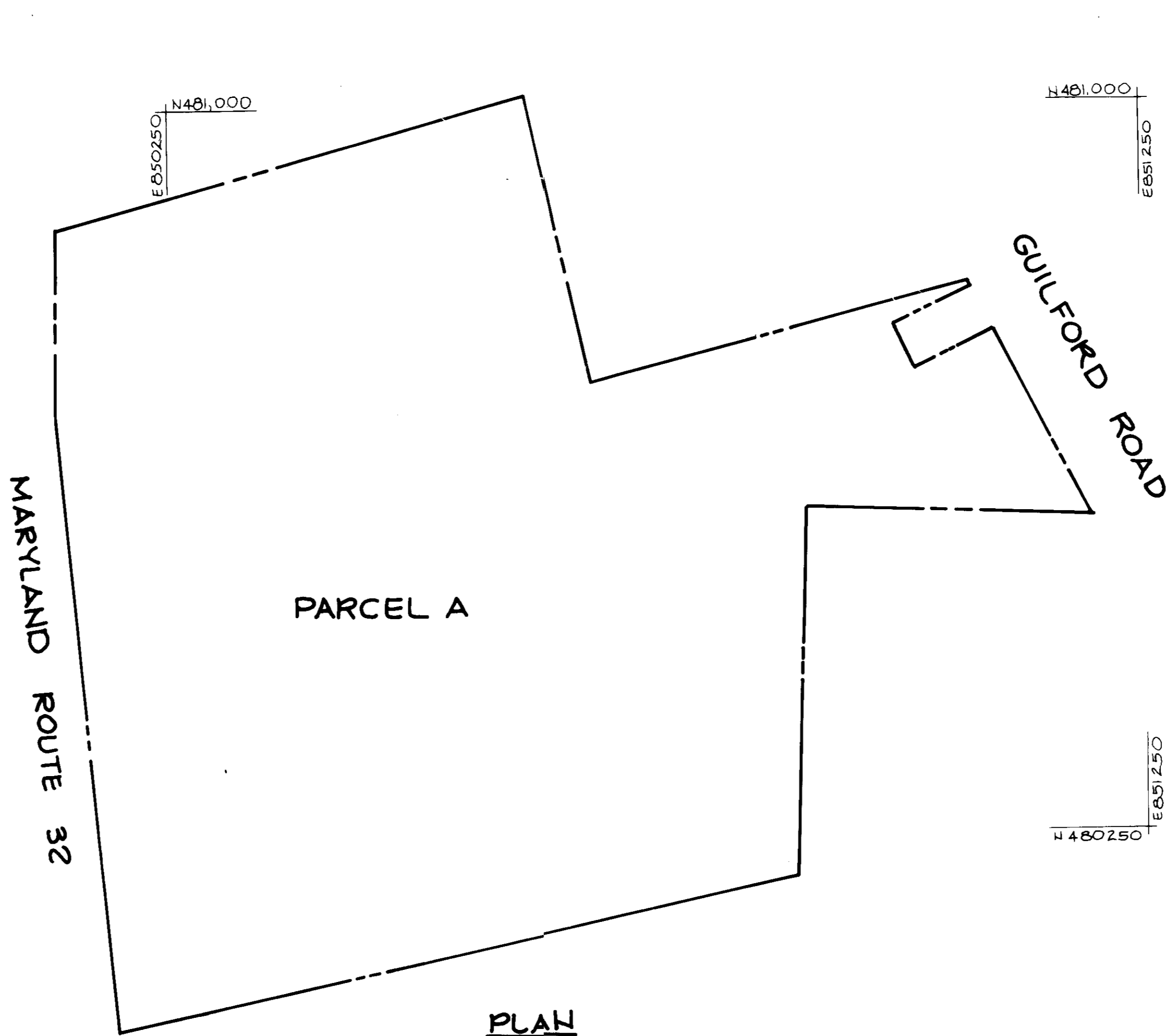


VICINITY MAP  
SCALE 1"=2000'

GENERAL NOTES

- ALL WATER LINES SHALL BE CONSTRUCTED A MINIMUM OF 42" COVER BELOW FINISHED GRADE.
- ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE HOWARD COUNTY DESIGN MANUAL, VOLUME IV, I.E., STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION.
- APPROXIMATE LOCATION OF EXISTING UTILITIES ARE SHOWN. FROM BEST AVAILABLE INFORMATION THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT THE EXISTING UTILITIES AND MAINTAIN UNINTERRUPTED SERVICE. ANY DAMAGE INCURRED DUE TO CONTRACTOR'S OPERATION SHALL BE REPAIRED IMMEDIATELY AT THE CONTRACTOR'S EXPENSE.
- THE CONTRACTOR SHALL TEST PIT EXISTING UTILITIES AT LEAST FIVE (5) DAYS BEFORE STARTING WORK SHOWN ON THESE DRAWINGS TO VERIFY THEIR LOCATION AND ELEVATION. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY IF LOCATION OF UTILITIES IS OTHER THAN SHOWN.
- CONTRACTOR TO NOTIFY THE FOLLOWING UTILITIES OR AGENCIES AT LEAST FIVE DAYS BEFORE STARTING WORK SHOWN ON THESE DRAWINGS:
 

MISS UTILITY	1-800-257-7777
C & P TELEPHONE COMPANY	725-9976
HOWARD COUNTY BUREAU OF UTILITIES	992-2366
AT&T CABLE LOCATION DIVISION	393-3553
BALTIMORE GAS & ELECTRIC COMPANY	685-0123
STATE HIGHWAY ADMINISTRATION	531-5533
HOWARD COUNTY CONSTRUCTION/INSPECTION SURVEY DIVISION (24 HOURS NOTICE PRIOR TO COMMENCEMENT OF WORK)	792-7272
- ALL INLETS SHALL BE CONSTRUCTED IN ACCORDANCE WITH HOWARD COUNTY STANDARDS.
- ALL PIPE ELEVATIONS SHOWN ARE INVERT ELEVATIONS.
- THE CONTRACTOR SHALL PROVIDE A JOINT IN ALL SEWER MAINS WITHIN 2'-0" OF EXTERIOR MANHOLE WALLS.
- PROFILE STATIONS SHALL BE ADJUSTED AS NECESSARY TO CONFORM TO PLAN DIMENSIONS.
- NO PIPE SHALL BE LAID UNTIL LINES OF EXCAVATION HAVE BEEN BROUGHT TO SUBGRADE.
- TOPO TAKEN FROM FIELD RUN SURVEY DATED NOVEMBER, 1985 BY TYDINGS & ASSOC.
- ALL PLAN DIMENSIONS ARE TO FACE OF CURB UNLESS OTHERWISE NOTED.
- ALL STORM DRAIN PIPE BEDDING SHALL BE AS SHOWN IN DETAIL G2.01 (TRENCH IN ROCK OR TRENCH IN EARTH AS DETERMINED BY FIELD CONDITIONS) IN VOL. IV OF HOWARD COUNTY DESIGN MANUAL UNLESS OTHERWISE DIRECTED BY THE ENGINEER OR AS SHOWN ON THE DRAWINGS.
- THE DEVELOPER IS RESPONSIBLE FOR THE ACQUISITION OF ALL EASEMENTS, RIGHTS AND/OR RIGHTS-OF-WAY THAT MAY BE REQUIRED FOR THE SEDIMENT AND EROSION CONTROL PRACTICES, STORM WATER MANAGEMENT PRACTICES AND THE DISCHARGE OF STORM WATER ONTO OR ACROSS ADJACENT OR DOWNSTREAM PROPERTIES INCLUDED IN THIS PLAN. HE IS ALSO RESPONSIBLE FOR THE ACQUISITION OF ALL EASEMENTS, RIGHTS AND/OR RIGHTS-OF-WAY THAT MAY BE REQUIRED FOR GRADING AND/OR WORK ON ADJACENT PROPERTIES INCLUDED IN THIS PLAN.



SITE TABULATION

EXISTING ZONING	R-A-15, R-20
TOTAL NUMBER OF PARCELS	1
TOTAL AREA OF PARCEL	14.23 AC.
AREA OF R-A-15	8.54 AC.
AREA OF R-20	5.69 AC.
AREA OF PUBLIC ROAD RIGHT OF WAY	0
PROPOSED USE: R-A-15	RESIDENTIAL OPEN SPACE
R-20	RECREATIONAL USE
NUMBER OF DWELLING UNITS FOR HANDICAPPED USE	TOTAL 6 D.U.
LOCATION OF UNITS FOR HANDICAPPED USE	BUILDING #2-4 D.U.
	BUILDING #7-2 D.U.
PARKING:	
281 BR (250 SF) x 1.5 Sp. Per Unit =	42 Spaces
100' x 2 BR (800 S.F.) x 2.0 Sp. Per Unit =	200 Spaces
TOTAL PARKING SPACES REQUIRED	242 Spaces
TOTAL PARKING SPACES PROVIDED	242 Spaces
OPEN SPACE REQUIRED	
OPEN SPACE PROVIDED	123,972 S.F. (20%)
AREA OF INTERIOR ROAD (Private)	TOTAL 444,320 S.F. (78%)
BUILDING COVERAGE ALLOWED	R-A-15 226,625 SF (38%)
BUILDING COVERAGE PROPOSED	R-20 217,695 SF (40%)
	74,400 S.F. (20%)
	48,000 S.F. (7.7%)

DENSITY TABULATION

GROSS AREA - PARCEL A	14.23 AC.
GROSS AREA - R-A-15 DISTRICT	8.54 AC.
FLOOD PLAIN/STEEP SLOPES	0
NET AREA (R-A-15)	8.54 AC.
NO. OF D.U. ALLOWED 15 D.U. PER NET ACR	128.1 D.U.
FLOODPLAIN LOT ADJUSTMENT ALLOWANCE	N/A
TOTAL D.U. ALLOWED	128 D.U.
TOTAL D.U. PROPOSED	128 D.U.

NOTE:  
1. THE BUILDING SETBACKS ARE REDUCED TO 0 FEET FROM R-20 ZONING, 155 FEET FROM R-12 ZONING AND THE 20FOOT LANDSCAPED EDGE BETWEEN R-20 AND R-A-15 ZONING IS NOT REQUIRED AS PER BA-86-16V

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS,  
HOWARD COUNTY HEALTH DEPARTMENT.

*John Boyle* 10-13-88  
COUNTY HEALTH OFFICER DATE

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING.

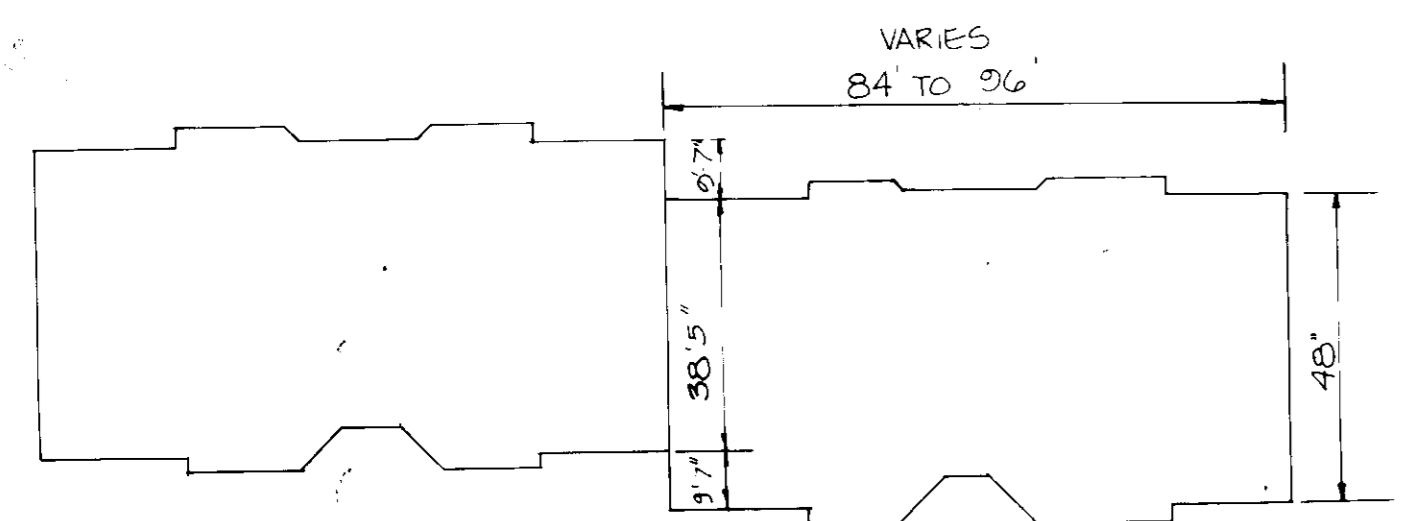
*William J. Taylor* 10-17-88  
PLANNING DIRECTOR DATE

*James J. Taylor* 1-18-88  
CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT DATE

APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS.  
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

*James J. Taylor* 1-18-88  
DIRECTOR DATE

*William J. Taylor* 10-11-88  
CHIEF, BUREAU OF ENGINEERING DATE

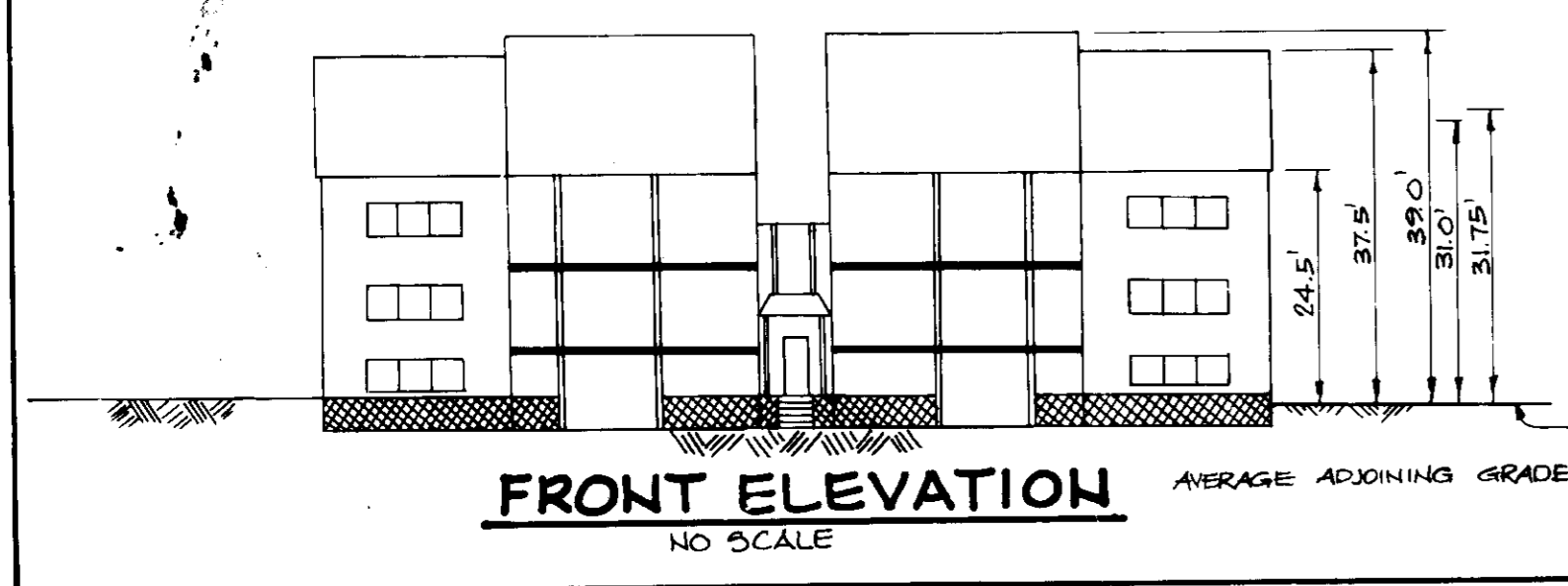


DETAIL OF DOUBLE BUILDING COMMON WALL OFFSET  
NO SCALE

BLDG TYPE	LENGTH	WIDTH
A	96'-0"	48'-0"
B	84'-0"	48'-0"
C	88'-0"	48'-0"

BLDG TYPE	Ridge Height	Eave Height	Mean Height	Roof Height		
A, B, C	Roof (1/2) Roof (1/2)	Roof (1/2) Roof (1/2)	Roof (1/2) Roof (1/2)	Roof (1/2) Roof (1/2)		
A, B, C	37.5	39	24.5	24.5	31	31.75

\* MEASURED FROM AVERAGE ADJOINING GRADE



FRONT ELEVATION  
NO SCALE

PLAN  
SCALE 1"=100'

ADDRESS CHART	
BUILDING NO.	STREET ADDRESS
1	0078 GUILFORD ROAD
2	0070 " "
3	0068 " "
4	0066 " "
5	0064 " "
6	0062 " "
7	0060 " "
8	0058 " "
9	0056 " "
10	0054 " "
11	0052 " "

SUBDIVISION NAME <b>NORTH GREENBRIER</b>	SECT./AREA	LOT/PARCEL # <b>A</b>
PLAT # OR L/F <b>6966</b>	BLOCK # <b>25</b>	ZONE <b>R-A-15</b>
WATER CODE <b>BOS</b>	TAX/ZONE MAP <b>42</b>	ELEC. DIST. <b>8th</b>
	SEWER CODE <b>4400200</b>	CENSUS TR. <b>G0G4</b>

OWNER, DEVELOPER  
N.G.A. LIMITED PARTNERSHIP  
ONE OAKWOOD BUSINESS CENTER  
2050 OAKLAND MILLS ROAD  
SUITE 100  
COLUMBIA, MARYLAND 21046

PROJECT **NORTH GREENBRIER  
APARTMENT COMPLEX**

AREA TAX MAP 42 PLAT No. 6966 PARCEL A  
6th ELECTION DISTRICT  
HOWARD COUNTY, MARYLAND

TITLE **TITLE SHEET**

**THE RIEMER GROUP, INC.**  
The Riemer Group, Inc. A Land Planning, Design & Civil Engineering Firm  
3105 Health Park Drive, Ellicott City, Maryland 21043 (301) 461-2680

DATE **4-28-88**

DESIGNED BY **JDP**

DRAWN BY **TDB**

PROJECT NO **25405**

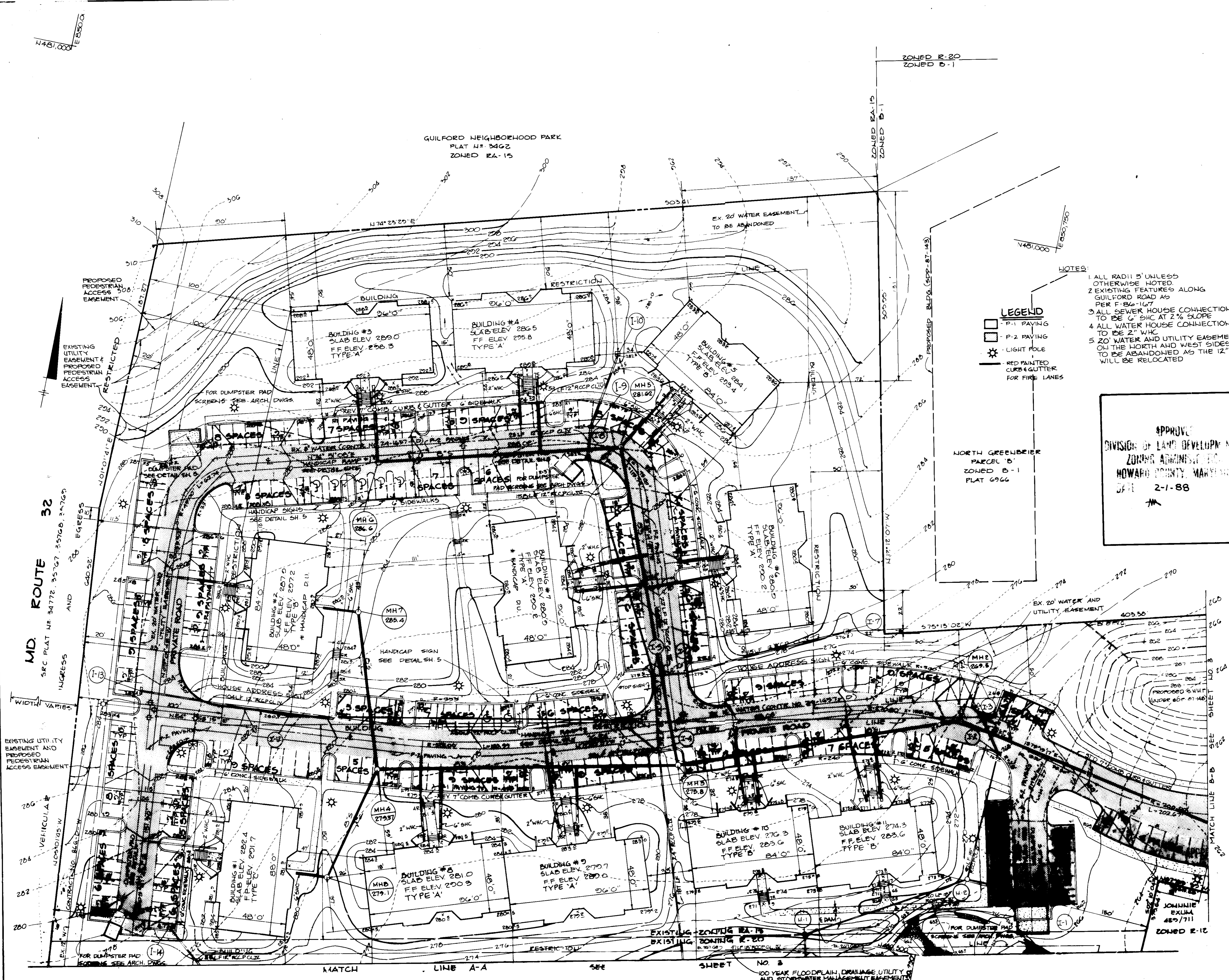
DATE **SEPT 24, 1987**

SCALE **AS SHOWN**

DRAWING NO. **1 OF 10**

*Arthur E. Muegge*  
ARTHUR E. MUEGGE 1/07





- LEGEND**
- P-1 PAVING
  - P-2 PAVING
  - LIGHT POLE
  - RED PAINTED CURB & GUTTER FOR FIRE LANES

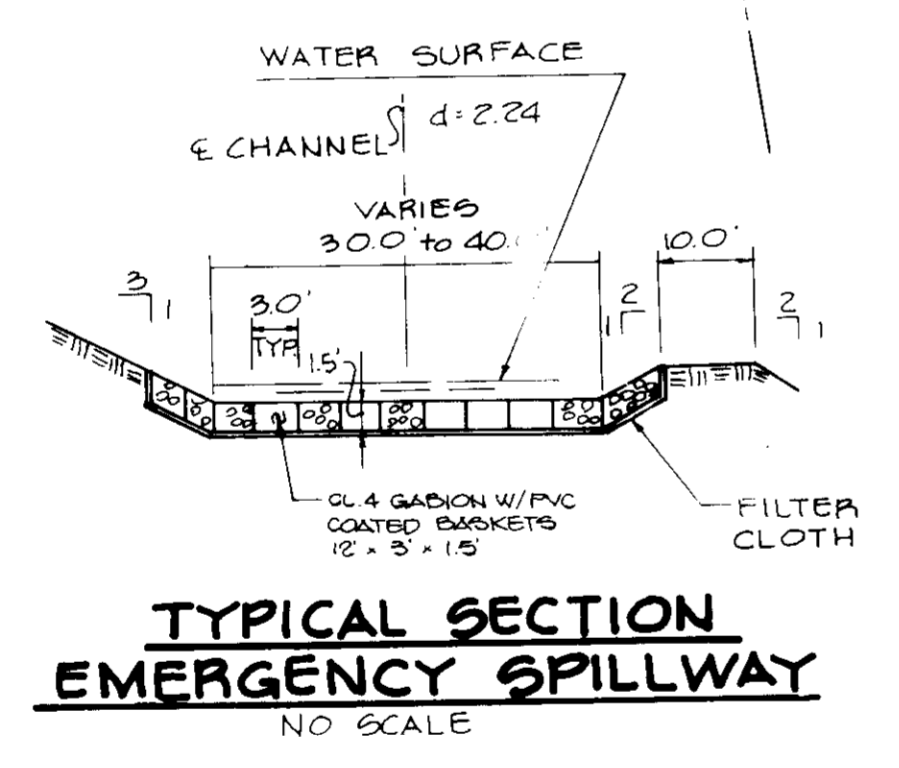
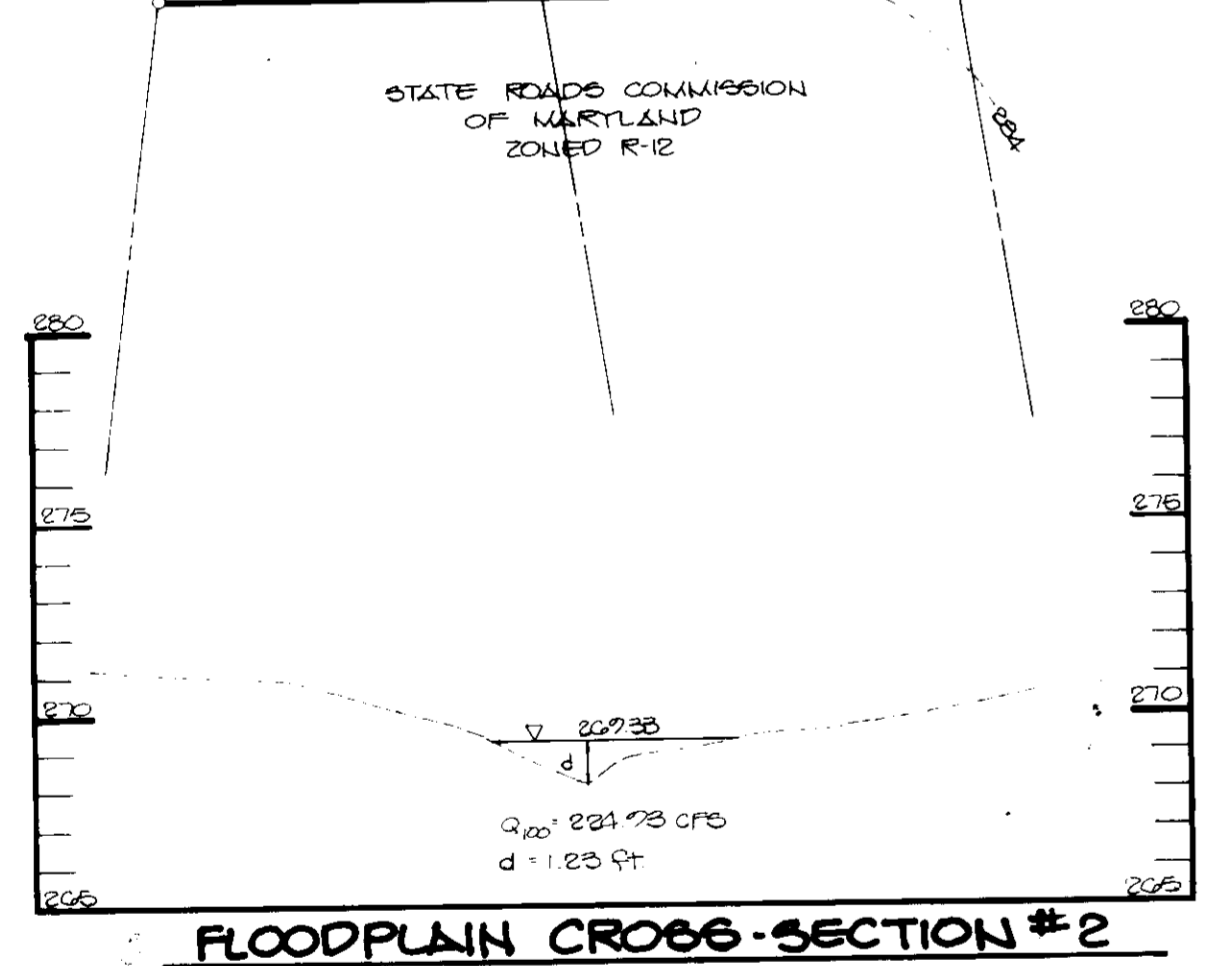
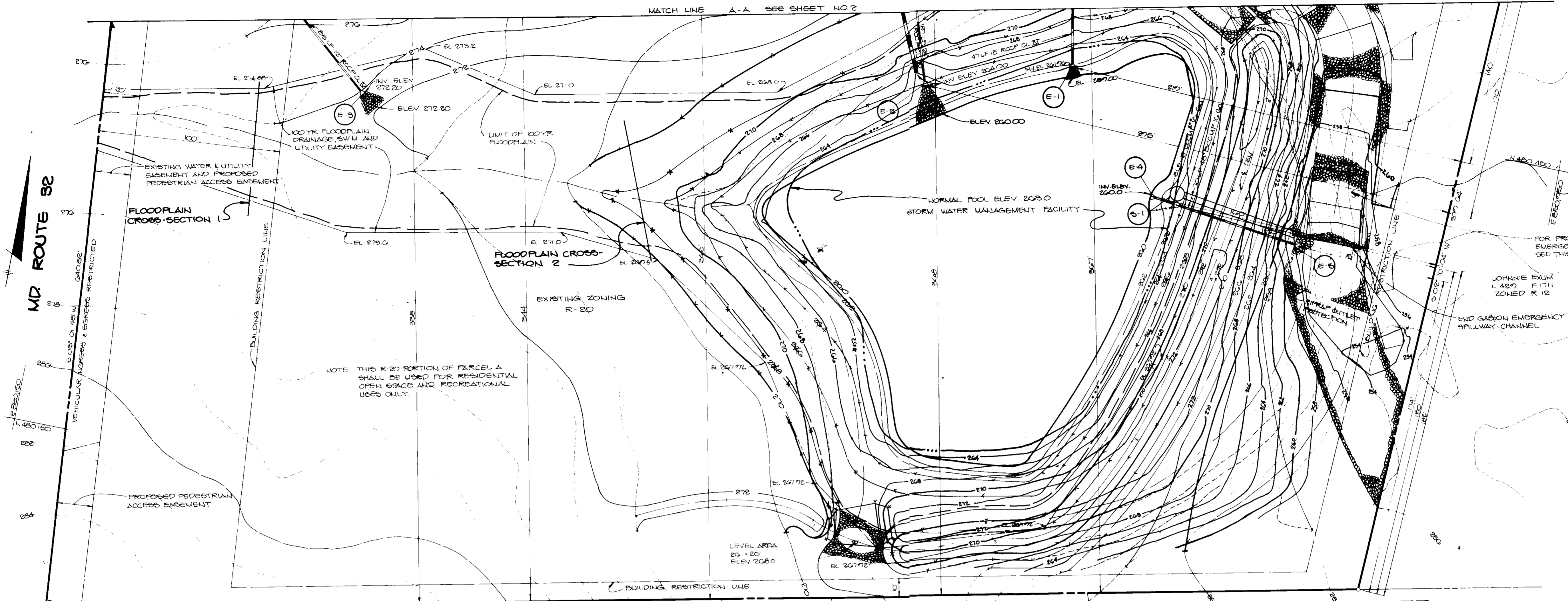
- NOTES:**
- 1 ALL RADII 5' UNLESS OTHERWISE NOTED.
  - 2 EXISTING FEATURES ALONG GUILFORD ROAD AS PER F-24-1027
  - 3 ALL SEWER HOUSE CONNECTIONS TO BE 6" SHC AT 2% SLOPE
  - 4 ALL WATER HOUSE CONNECTIONS TO BE 2" W/C
  - 5 20' WATER AND UTILITY EASEMENT ON THE NORTH AND WEST SIDES TO BE ABANDONED AS THE 12" W WILL BE RELOCATED

APPROVE  
DIVISION OF LAND DEVELOPMENT  
ZONING ADMINISTRATOR  
HOWARD COUNTY, MARYLAND  
DATE 2-1-88

AS-BUILT CERTIFICATION	
<i>J. Parelkh</i>	3-19-97
JAYKANT. G. PAREKH # 19146	DATE
APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT.	
<i>John P. ...</i>	10-13-88
COUNTY HEALTH OFFICER	DATE
APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING.	
<i>Ullman</i>	10-17-88
PLANNING DIRECTOR	DATE
<i>James J. ...</i>	1-17-88
CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT	DATE
APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS.	
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS	
<i>James ...</i>	10/1/88
DIRECTOR	DATE
<i>William ...</i>	10-11-88
CHIEF, BUREAU OF ENGINEERING	DATE
DATE NO.	REVISION
OWNER/DEVELOPER	
N.G.A. LIMITED PARTNERSHIP ONE OAKWOOD BUSINESS CENTER 7060 OAKLAND MILLS ROAD SUITE 109 COLUMBIA, MARYLAND 21046	
PROJECT <b>NORTH GREENBRIER APARTMENT COMPLEX</b>	
AREA TAX MAP 42 PLAT No. 0000 PARCEL A-1 8th ELECTION DISTRICT HOWARD COUNTY, MARYLAND	
TITLE <b>SITE DEVELOPMENT PLAN</b>	
THE RIEMER GROUP, INC.	
The Riemer Group, Inc. A Land Planning, Design & Civil Engineering Firm 3105 Health Park Drive, Ellicott City, Maryland 21043 (301) 461-2600	
9-29-88 DATE	DESIGNED BY: <i>RAU</i>
<i>Arthur ...</i>	DRAWN BY: <i>RAU</i>
ARTHUR & ...	PROJECT NO: <i>...</i>
<i>Arthur ...</i>	DATE: SEPT 24, 1987
<i>Arthur ...</i>	SCALE: <i>...</i>
<i>Arthur ...</i>	DRAWING NO. <i>...</i>

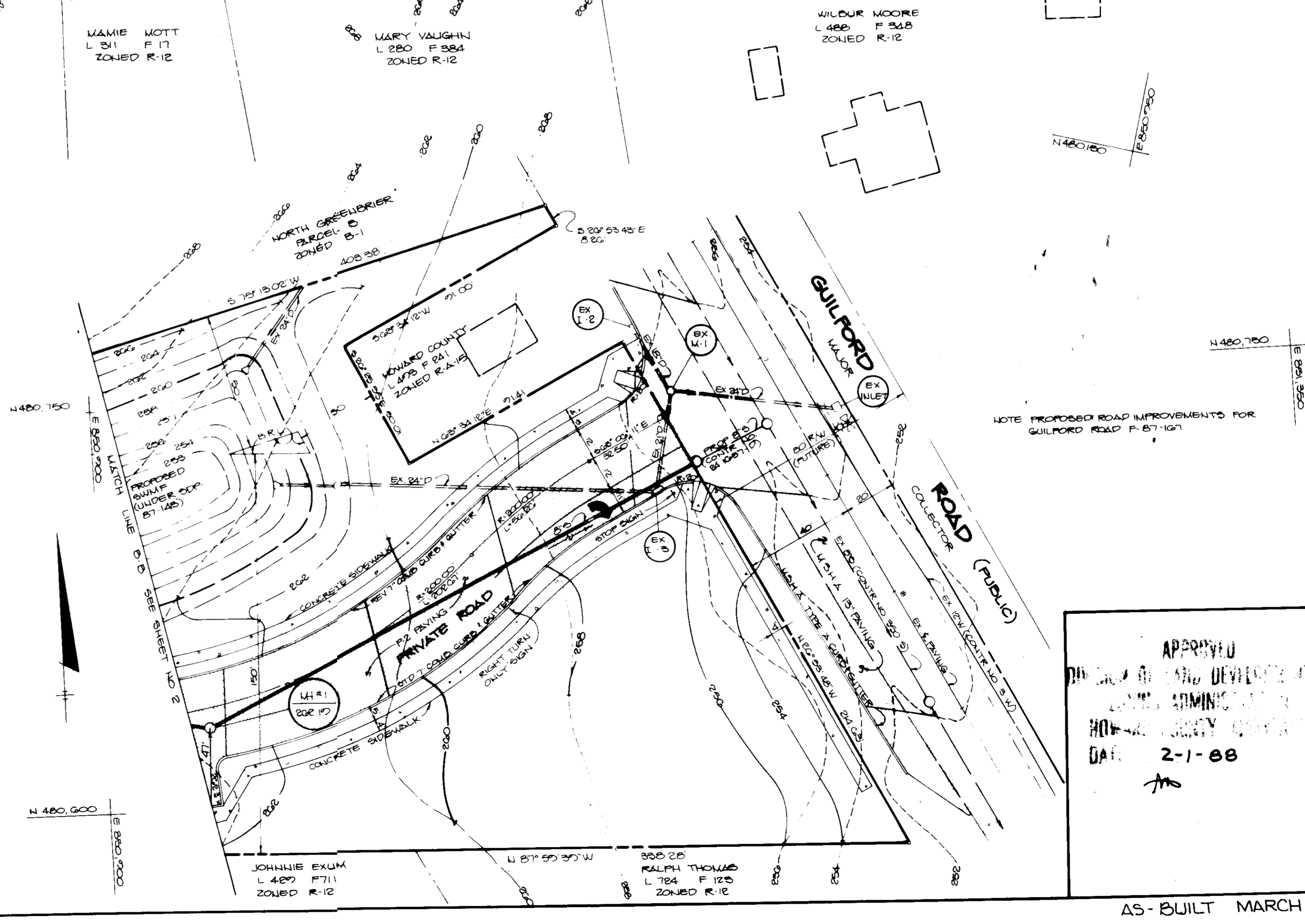
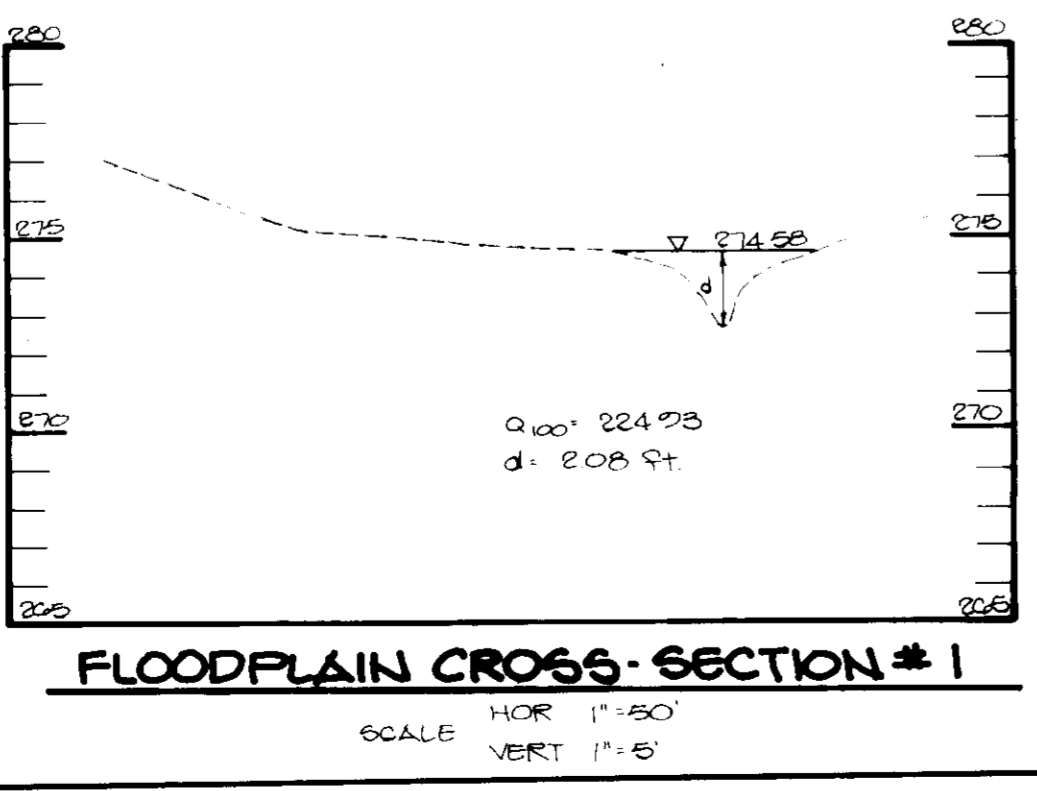
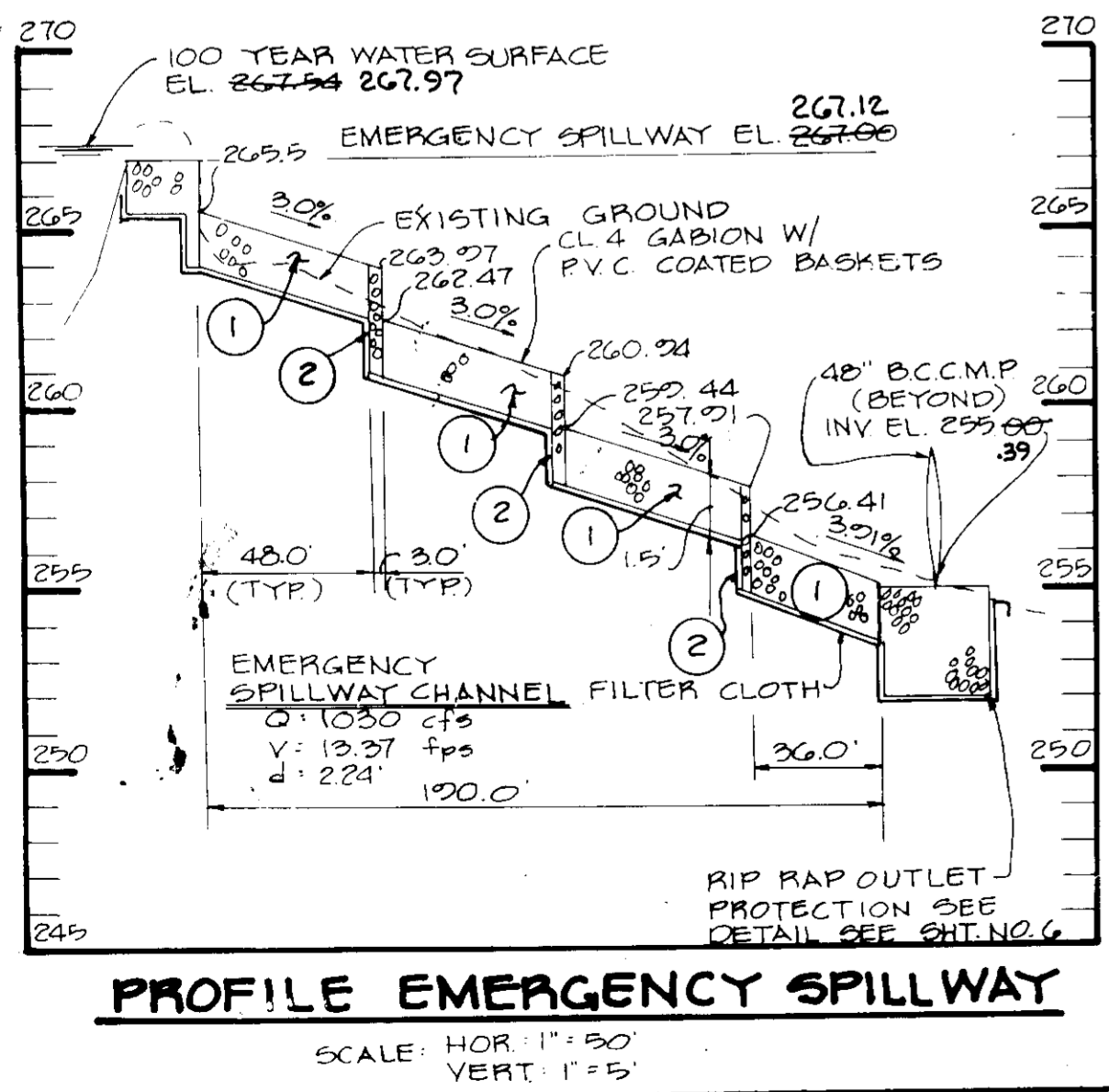


MATCH LINE A-A SEE SHEET NO 2



GABION BASKET SIZE		
NO	L	W x D
(1)	12'	5' x 1'-6"
(2)	6'	3' x 2'

NOTE: MODIFY GABION BASKETS TO FIT CHANNEL



AS-BUILT CERTIFICATION	
<i>J. Gurell</i> JAYKANT D. PAREKH # 1914B	3-19-97 DATE
<i>Joan Egan</i> COUNTY HEALTH OFFICER	10-13-88 DATE
<i>W. H. ...</i> PLANNING DIRECTOR	10-17-91 DATE
<i>Frank J. ...</i> CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT	1-14-92 DATE
<i>James ...</i> DIRECTOR	10-11-88 DATE
<i>W. ...</i> CHIEF, BUREAU OF ENGINEERING	10-11-88 DATE

DATE	NO	REVISION

**OWNER/DEVELOPER**  
 HGA LIMITED PARTNERSHIP  
 ONE OAKWOOD BUSINESS CENTER  
 7050 OAKLAND MILLS ROAD  
 SUITE 100  
 COLUMBIA, MARYLAND 21046

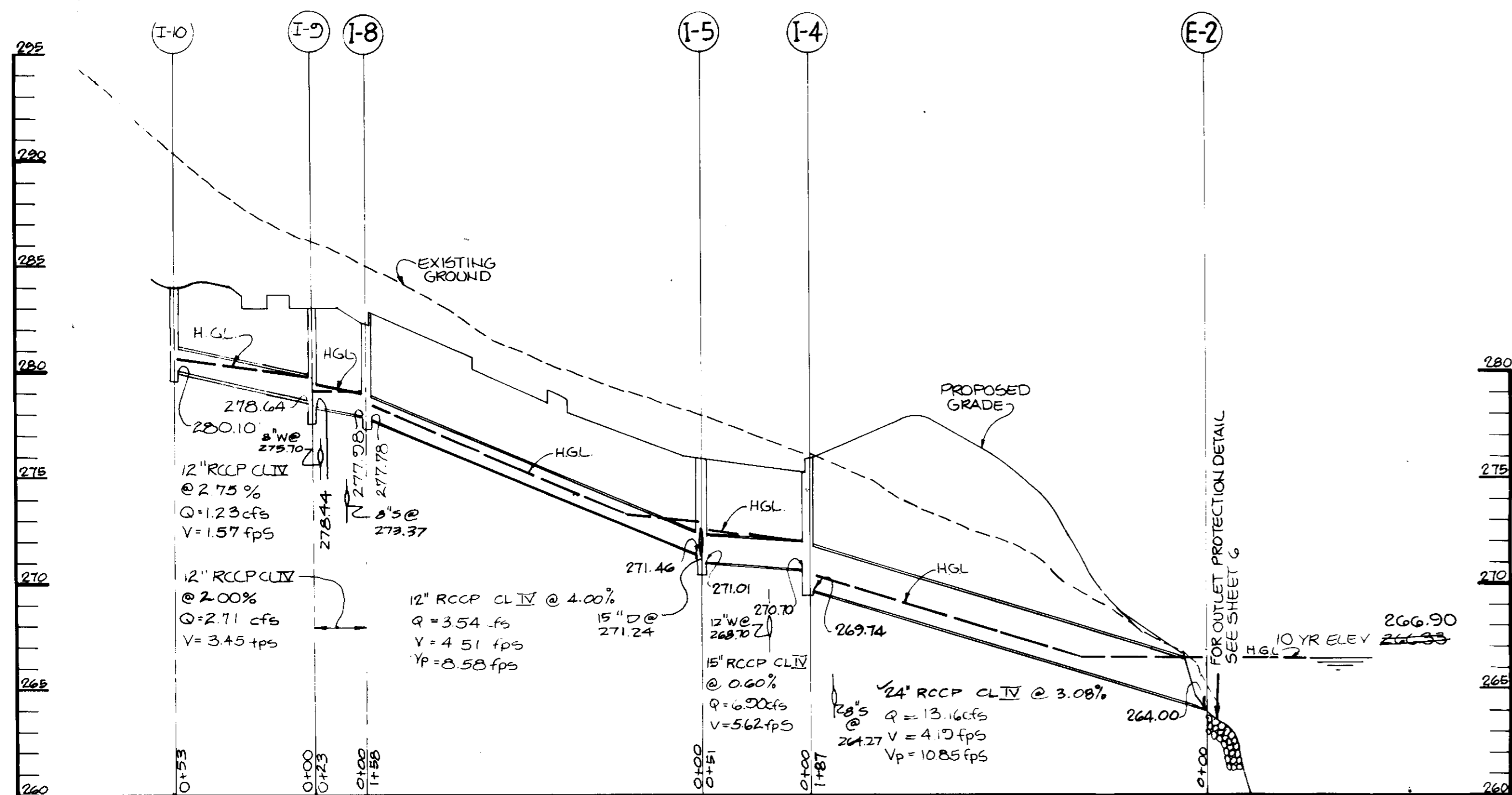
**PROJECT**  
 NORTH GREENBRIER APARTMENT COMPLEX

**AREA**  
 TAX MAP 42 PLAT NO 0222 PARCEL A  
 6TH ELECTION DISTRICT  
 HOWARD COUNTY, MARYLAND

**TITLE**  
 SITE DEVELOPMENT PLAN

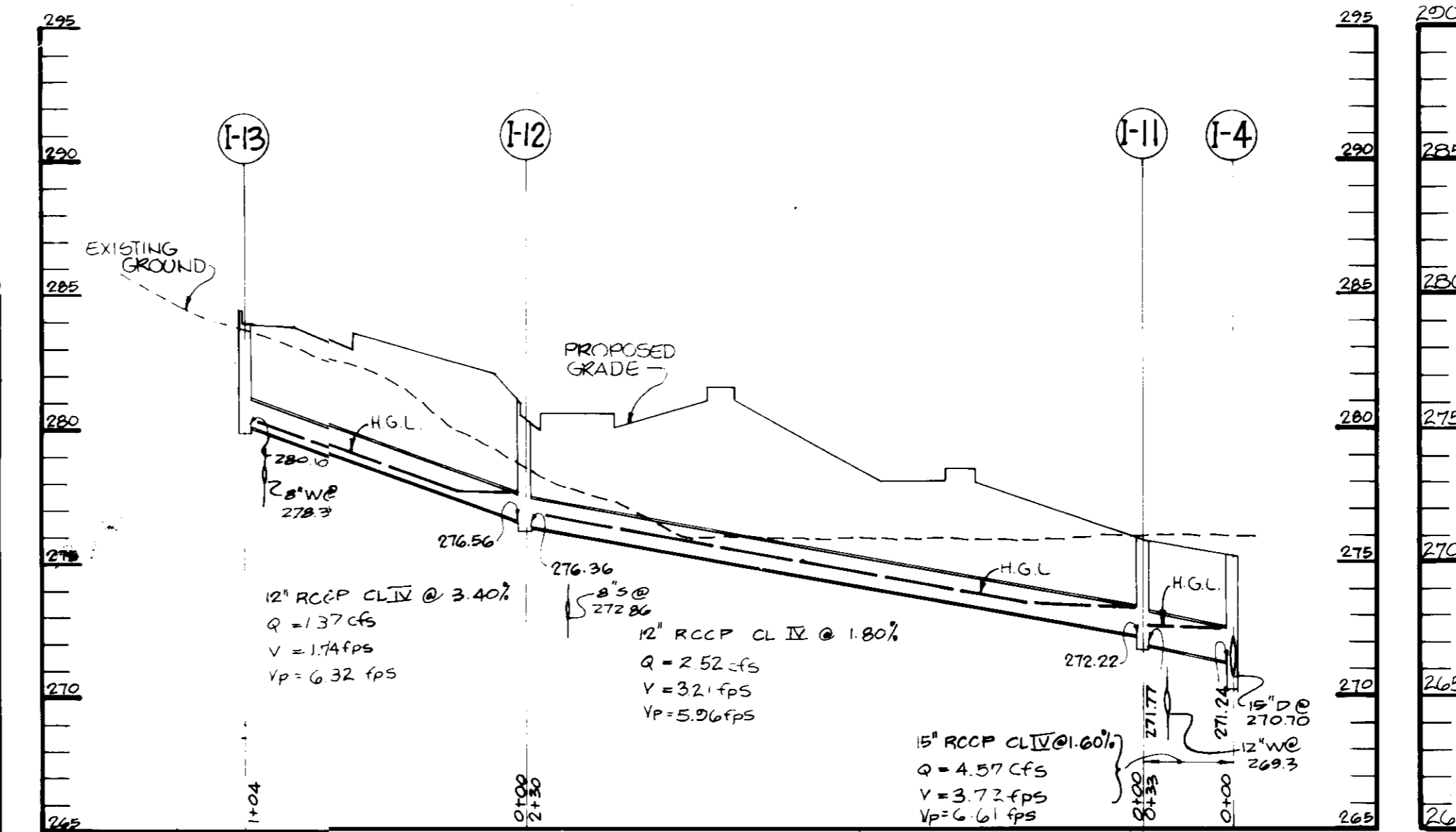
THE RIEMER GROUP, INC.	
The Riemer Group, Inc. A Land Planning, Design & Civil Engineering Firm 3105 North Ridge Road, Ellicott City, Maryland 21043 (301) 461-2690	
9-29-88 DATE	DESIGNED BY C.J.R.
	DRAWN BY M.A.D.
	PROJECT NO 28406
	DATE
	SCALE 1"=50'
<i>Arthur E. Muegge</i> ARTHUR E. MUEGGE # 8707	DRAWING NO. 3 OF 10

APPROVED  
 HOWARD COUNTY HEALTH DEPARTMENT  
 DATE: 2-1-88



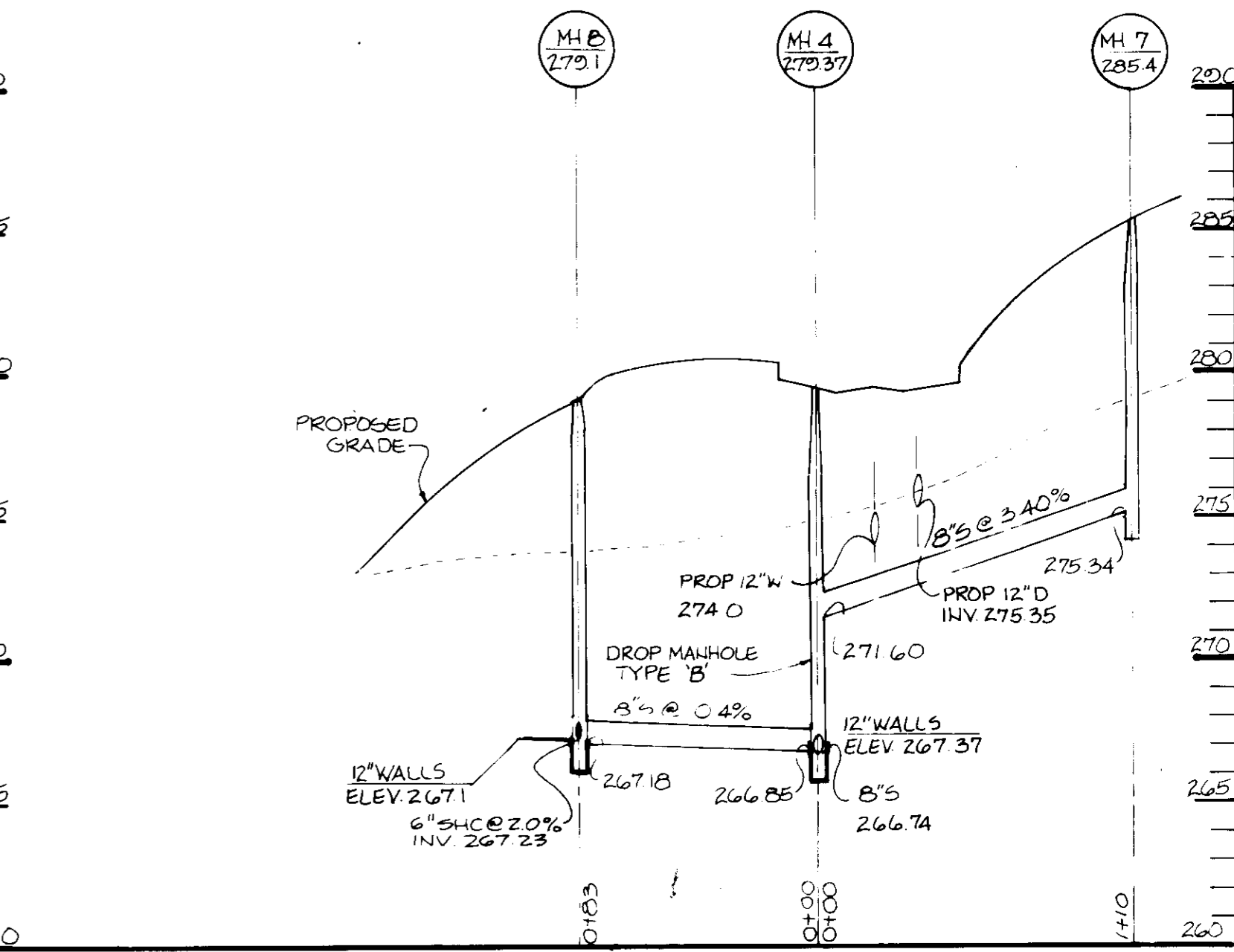
**STORM DRAIN PROFILE**

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



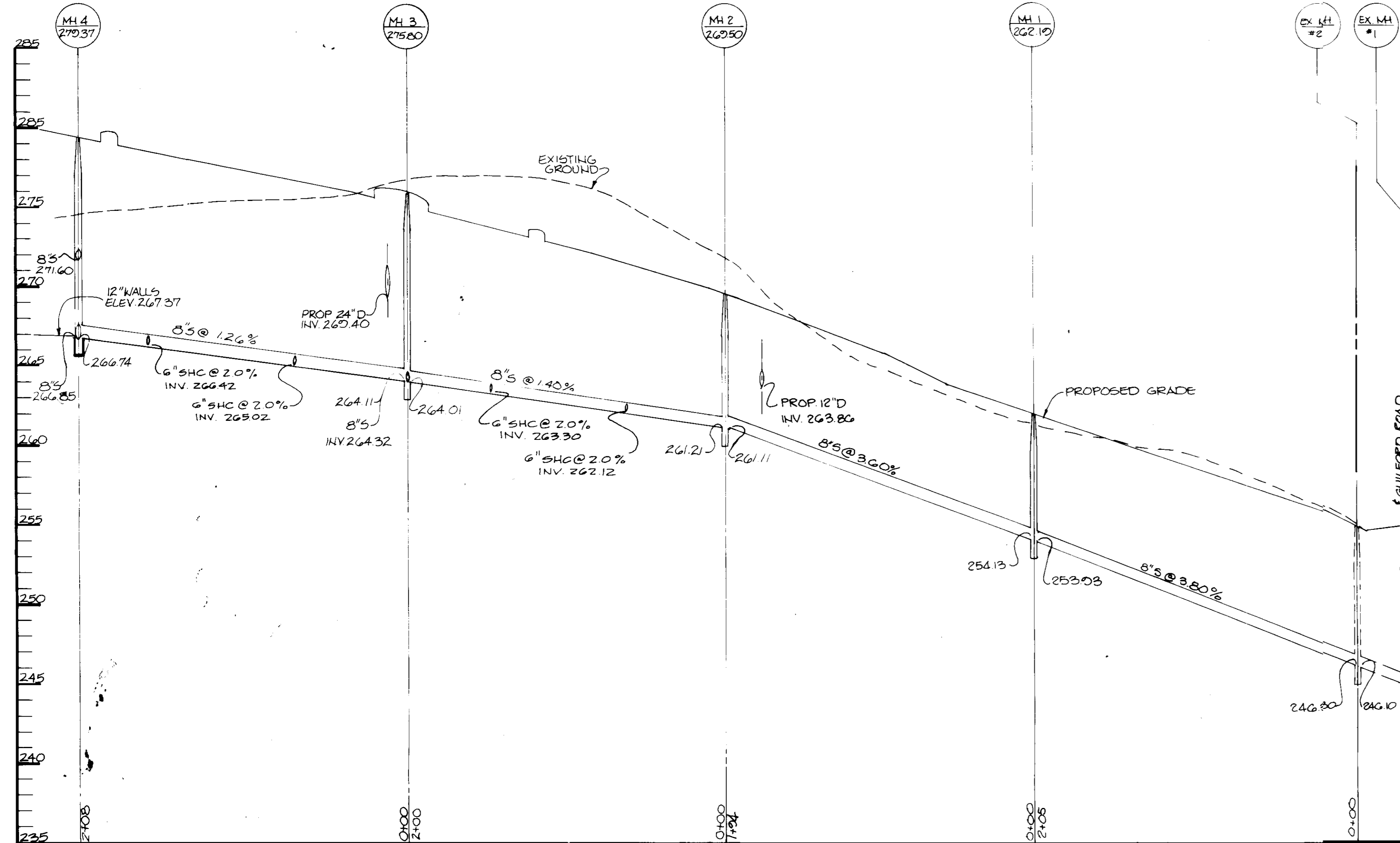
**STORM DRAIN PROFILE**

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



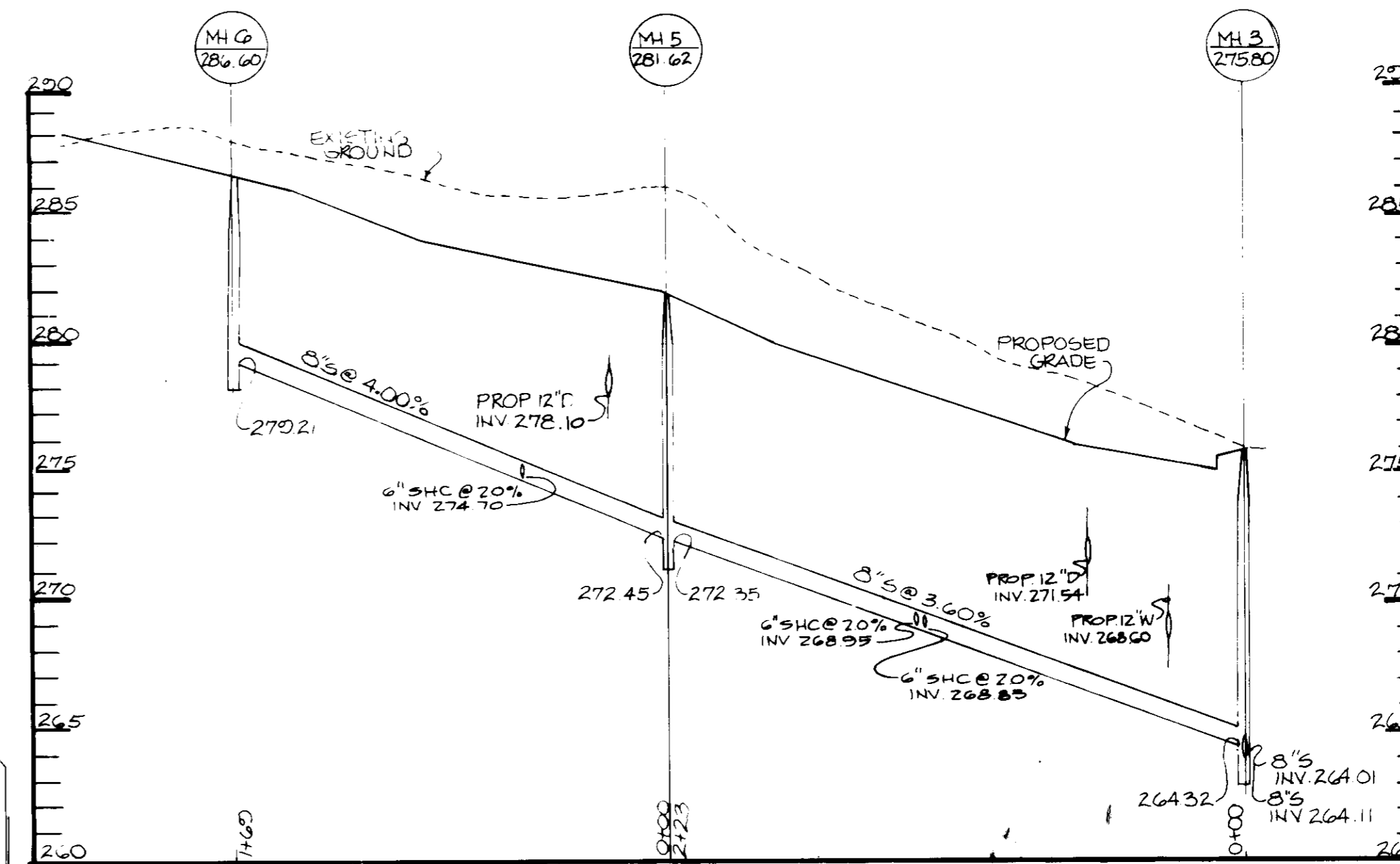
**SEWER PROFILE**

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



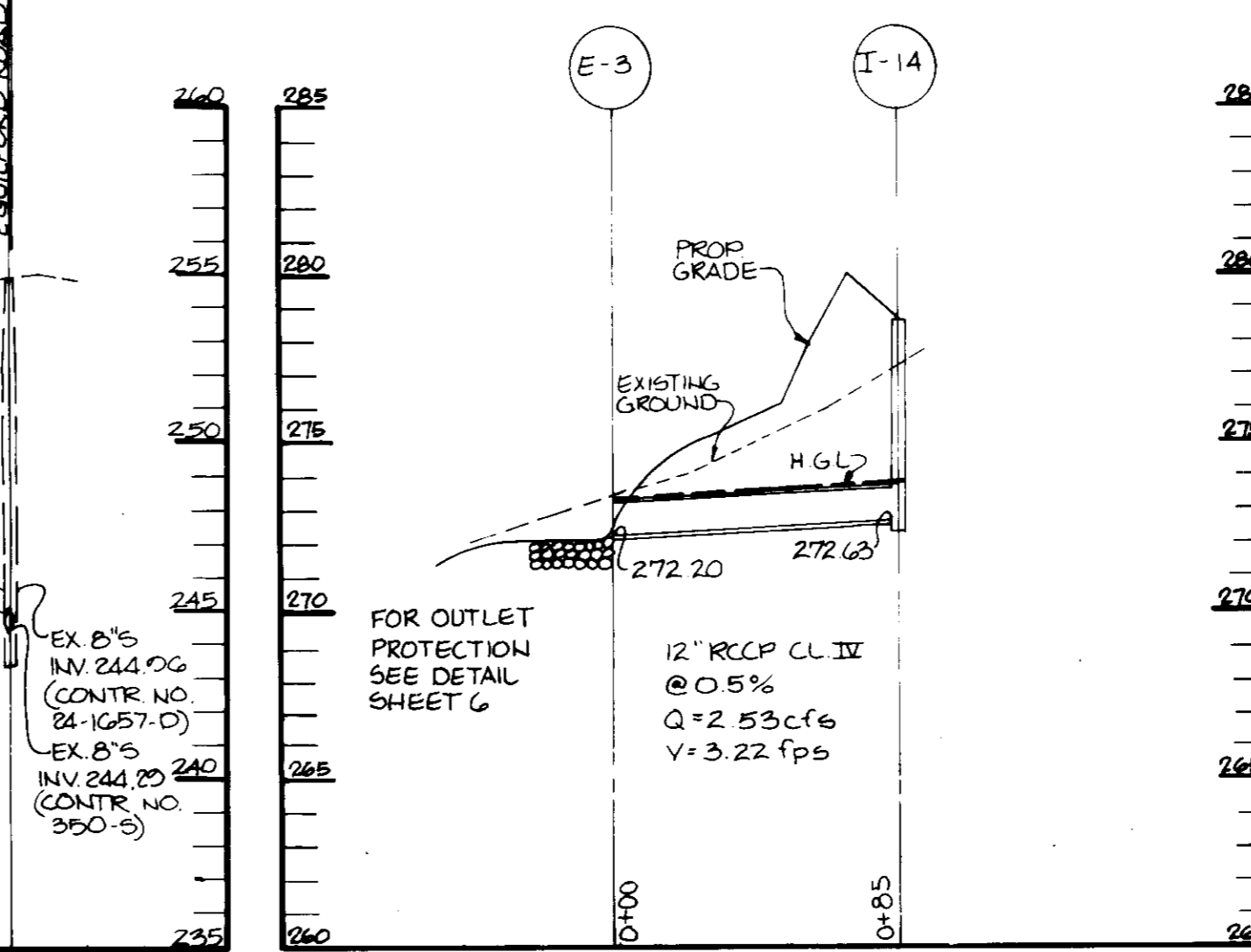
**SEWER PROFILE**

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



**SEWER PROFILE**

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



**STORM DRAIN PROFILE**

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

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS.  
HOWARD COUNTY HEALTH DEPARTMENT.

*Jayant D. Parekh* 10-14-88  
COUNTY HEALTH OFFICER DATE

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING.

*Ch. [Signature]* 10.17.88  
PLANNING DIRECTOR DATE

*David J. [Signature]* 11-17-88  
CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT DATE

APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS.

HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

*[Signature]* 10/11/88  
DIRECTOR DATE

*[Signature]* 10-11-88  
CHIEF, BUREAU OF ENGINEERING DATE

DATE	NO	REVISION

OWNER/DEVELOPER  
N.G.A. LIMITED PARTNERSHIP  
ONE OAKWOOD BUSINESS CENTER  
7080 OAKLAND MILLS ROAD  
SUITE 1000  
COLUMBIA, MARYLAND 21046

PROJECT **NORTH GREENBRIER**  
APARTMENT COMPLEX

AREA TAX MAP 42 PARCEL A  
6TH ELECTION DISTRICT  
HOWARD COUNTY, MARYLAND

TITLE **SEWER AND STORM DRAIN PROFILES**

**THE RIEMER GROUP, INC.**  
The Riemer Group, Inc. A Land Planning, Design & Civil Engineering Firm  
3105 Health Park Drive, Ellicott City, Maryland 21043 (301) 481-2890

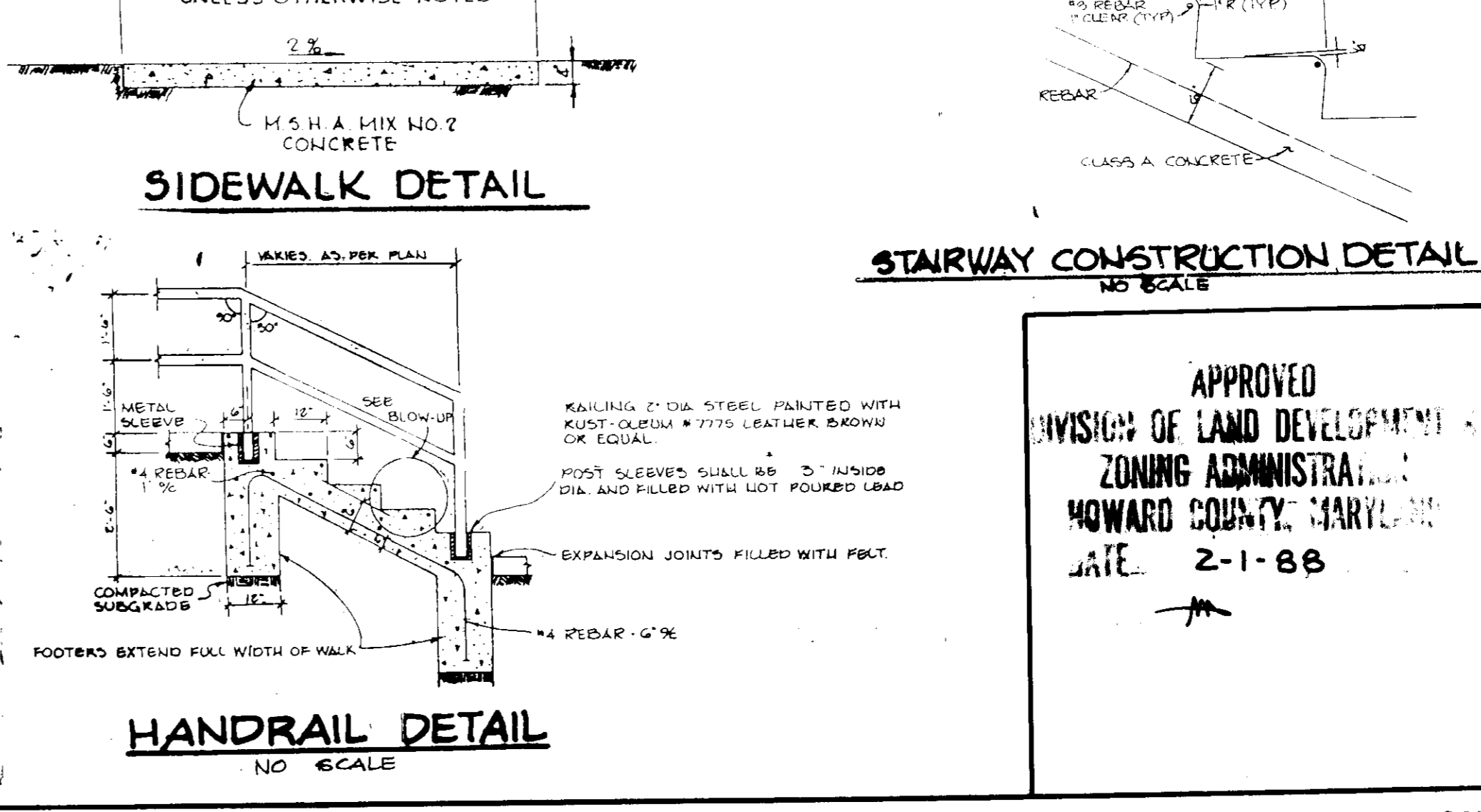
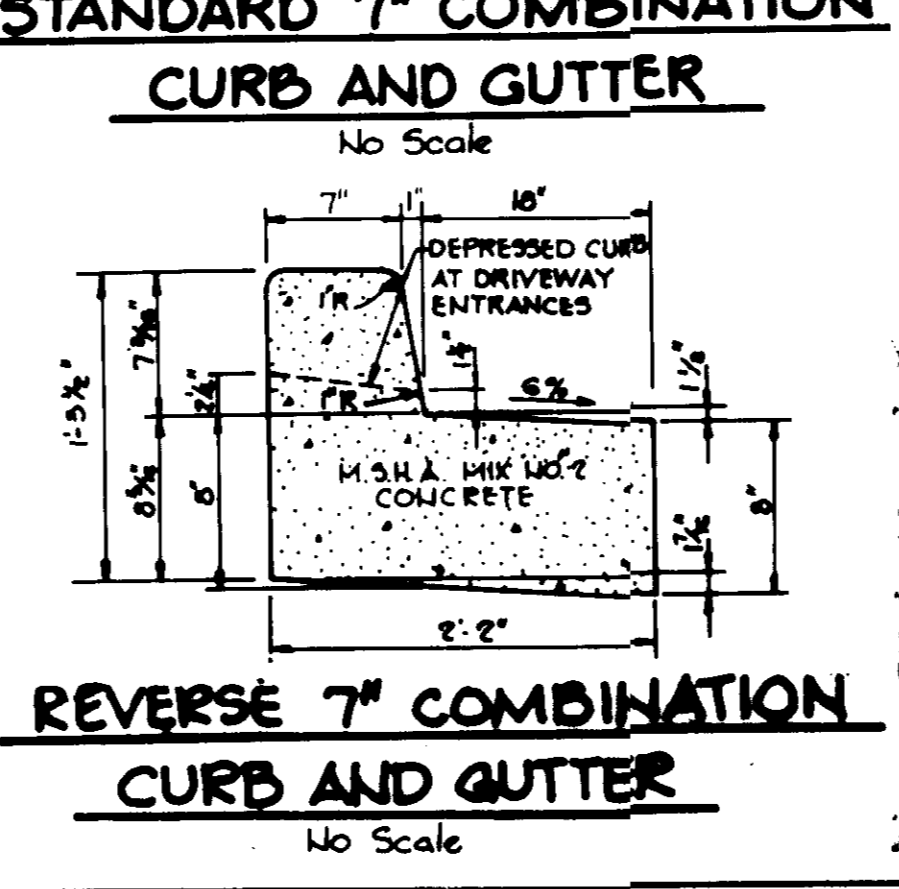
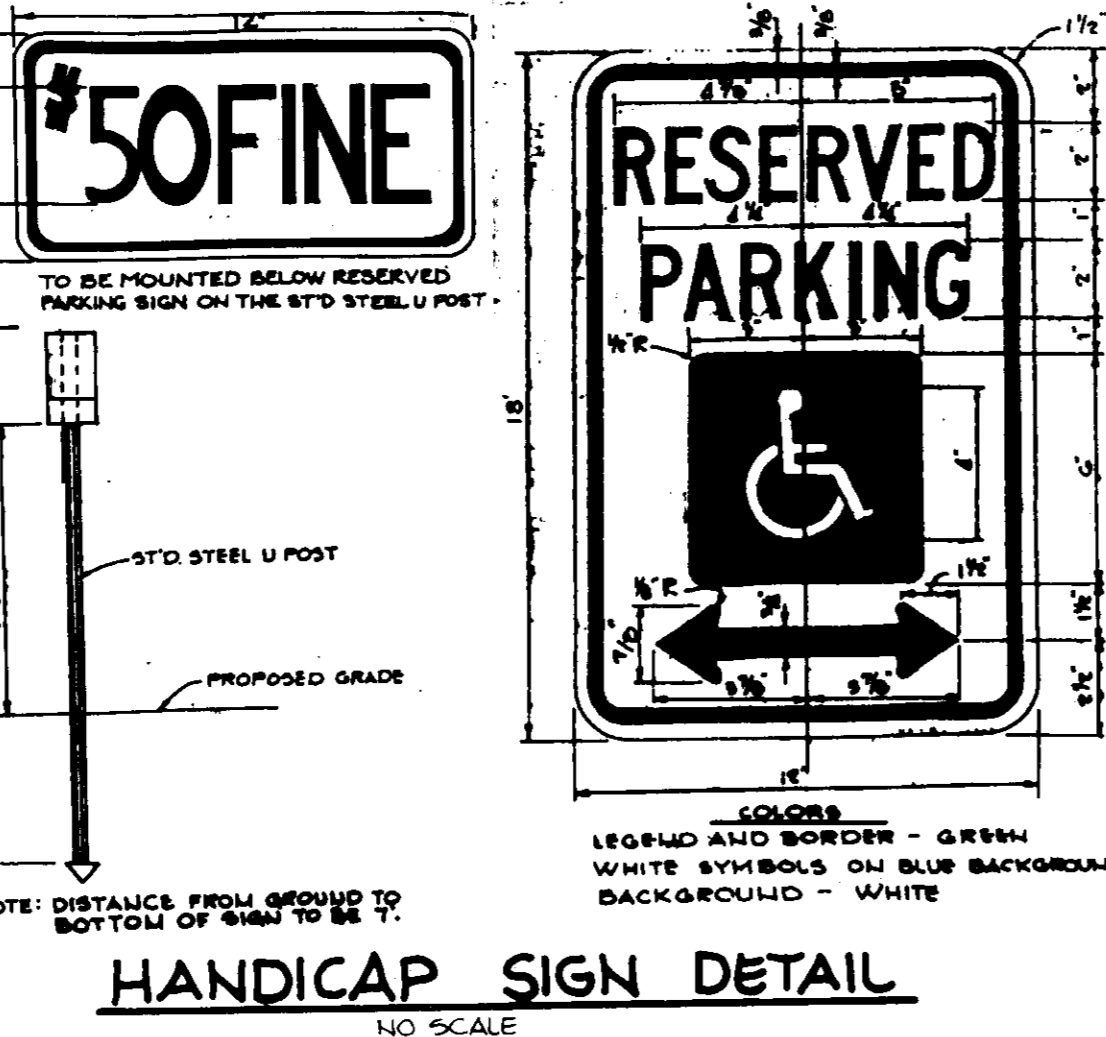
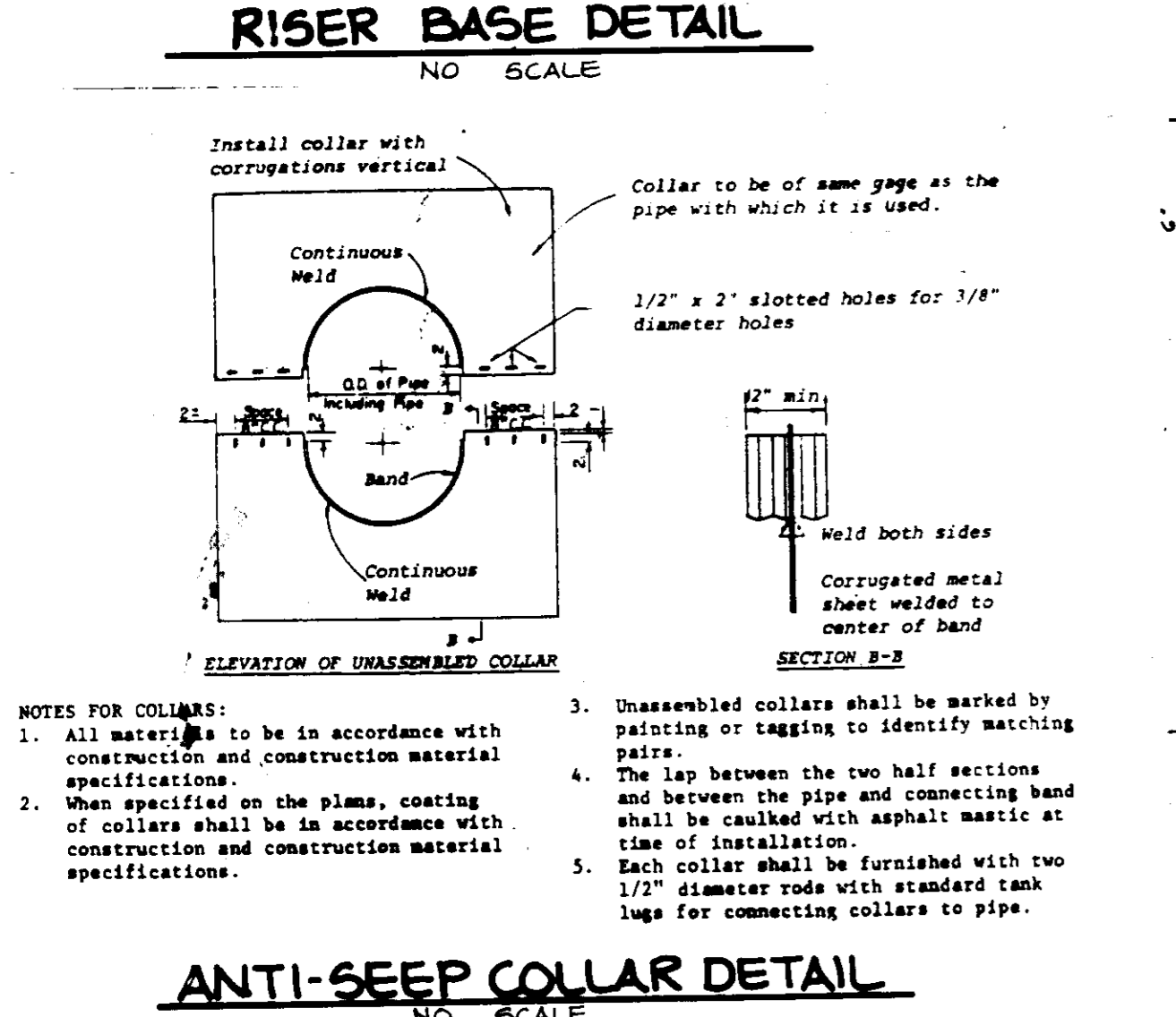
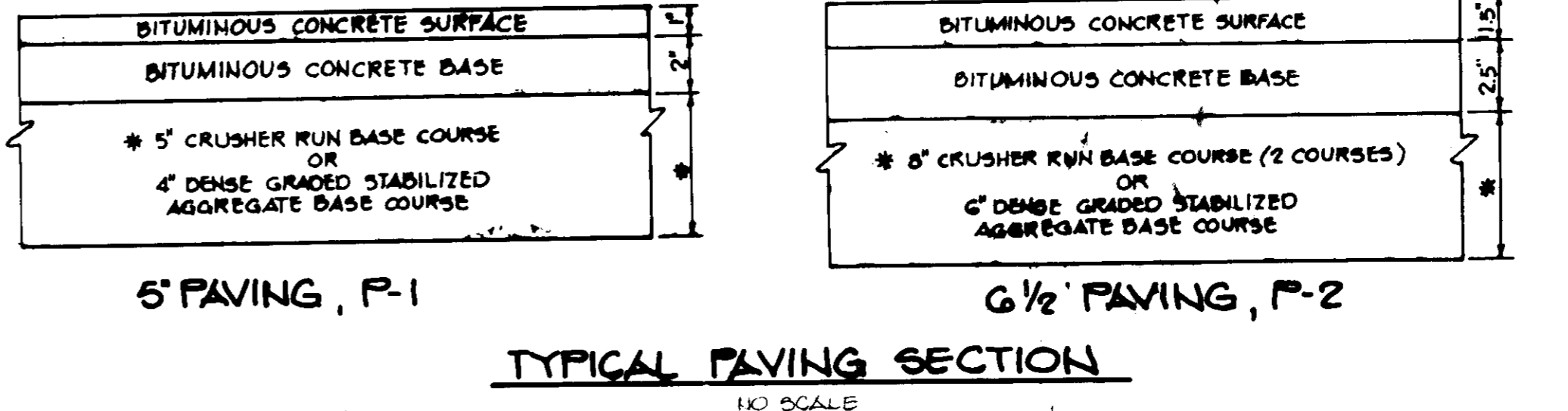
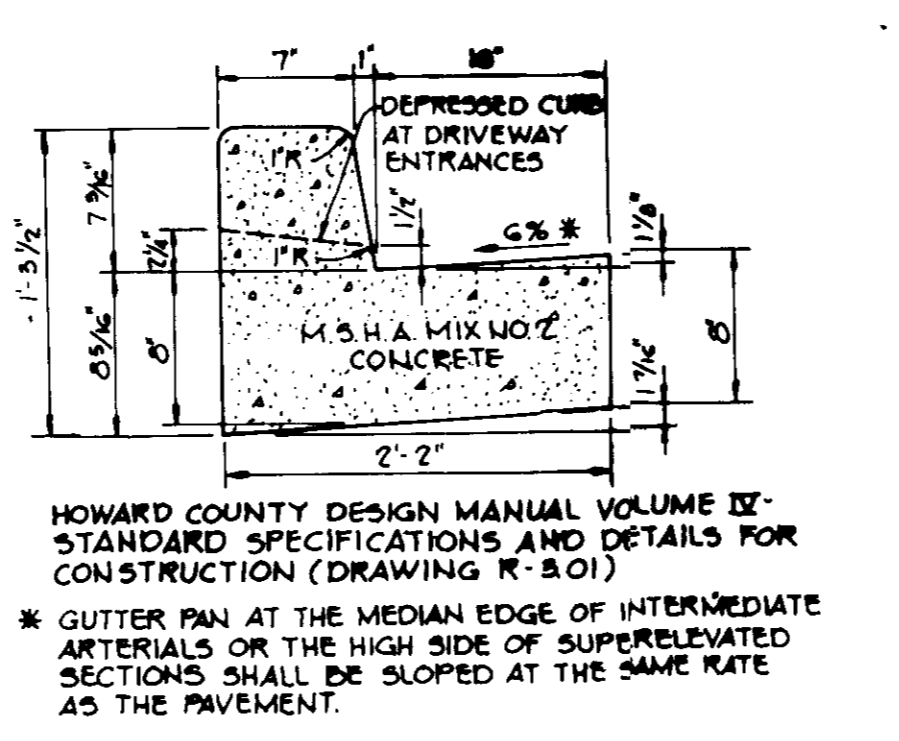
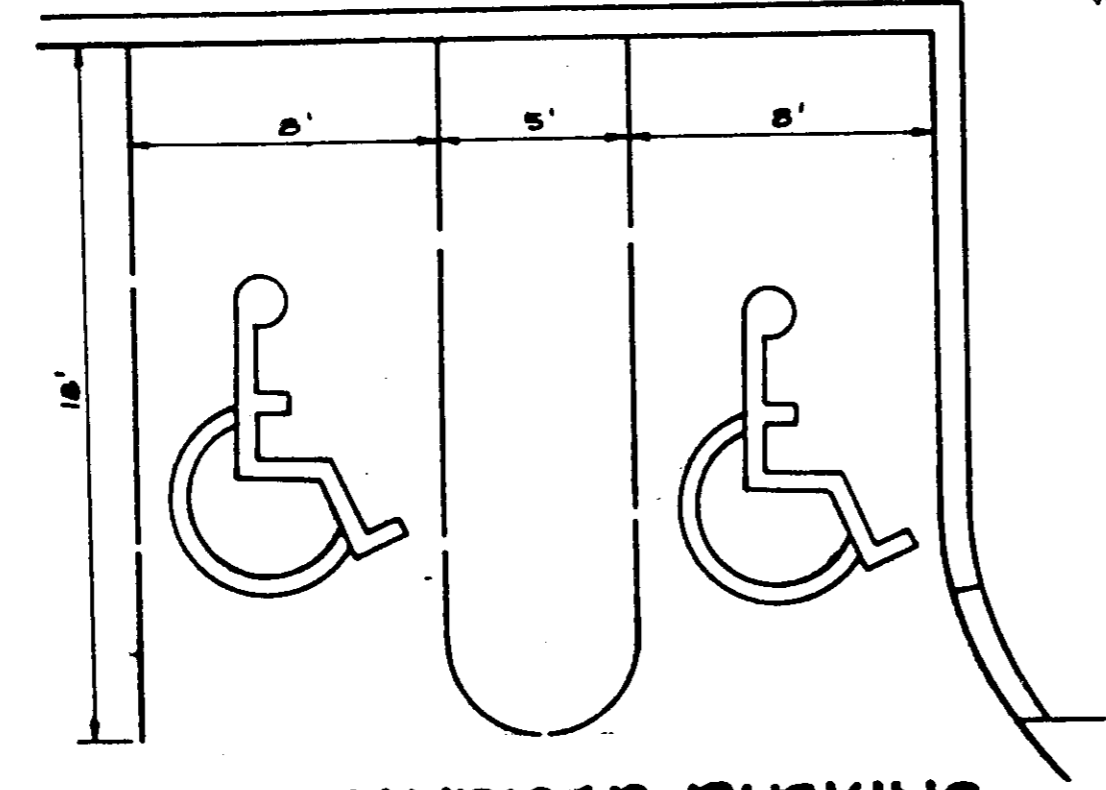
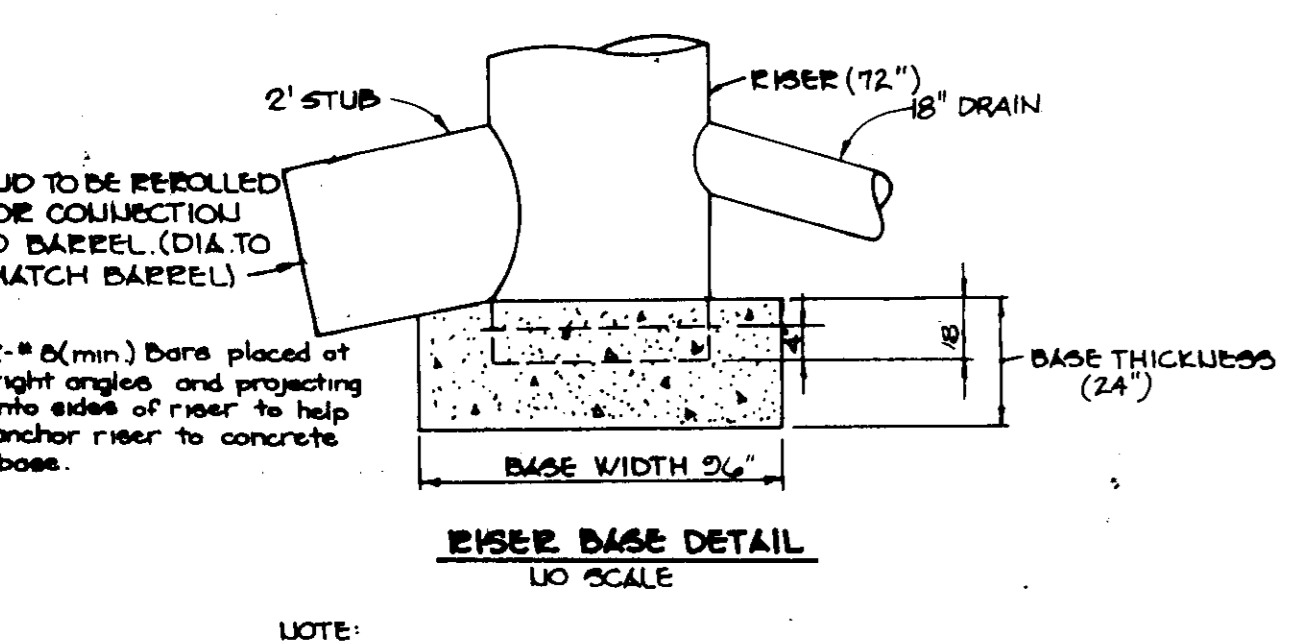
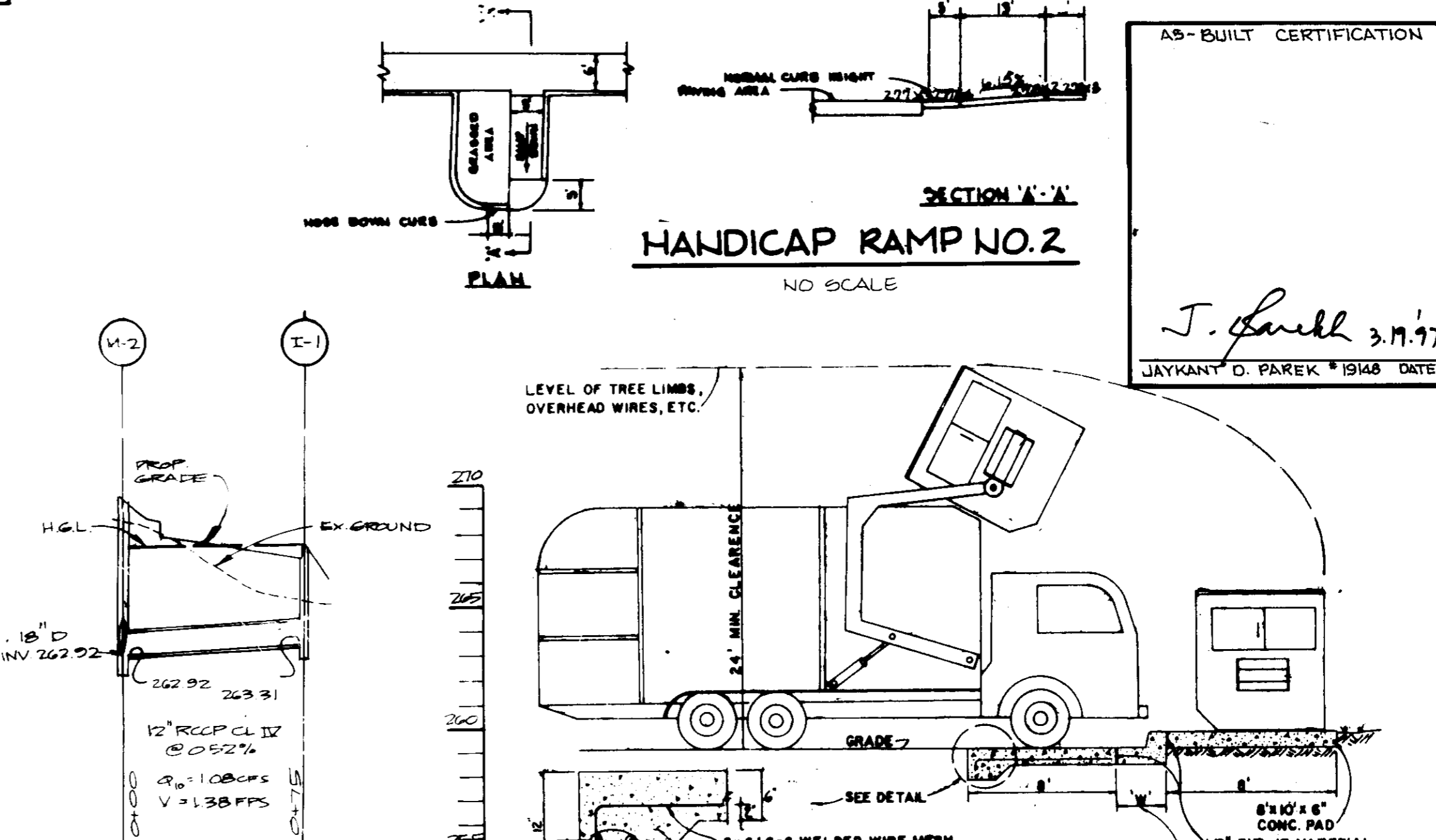
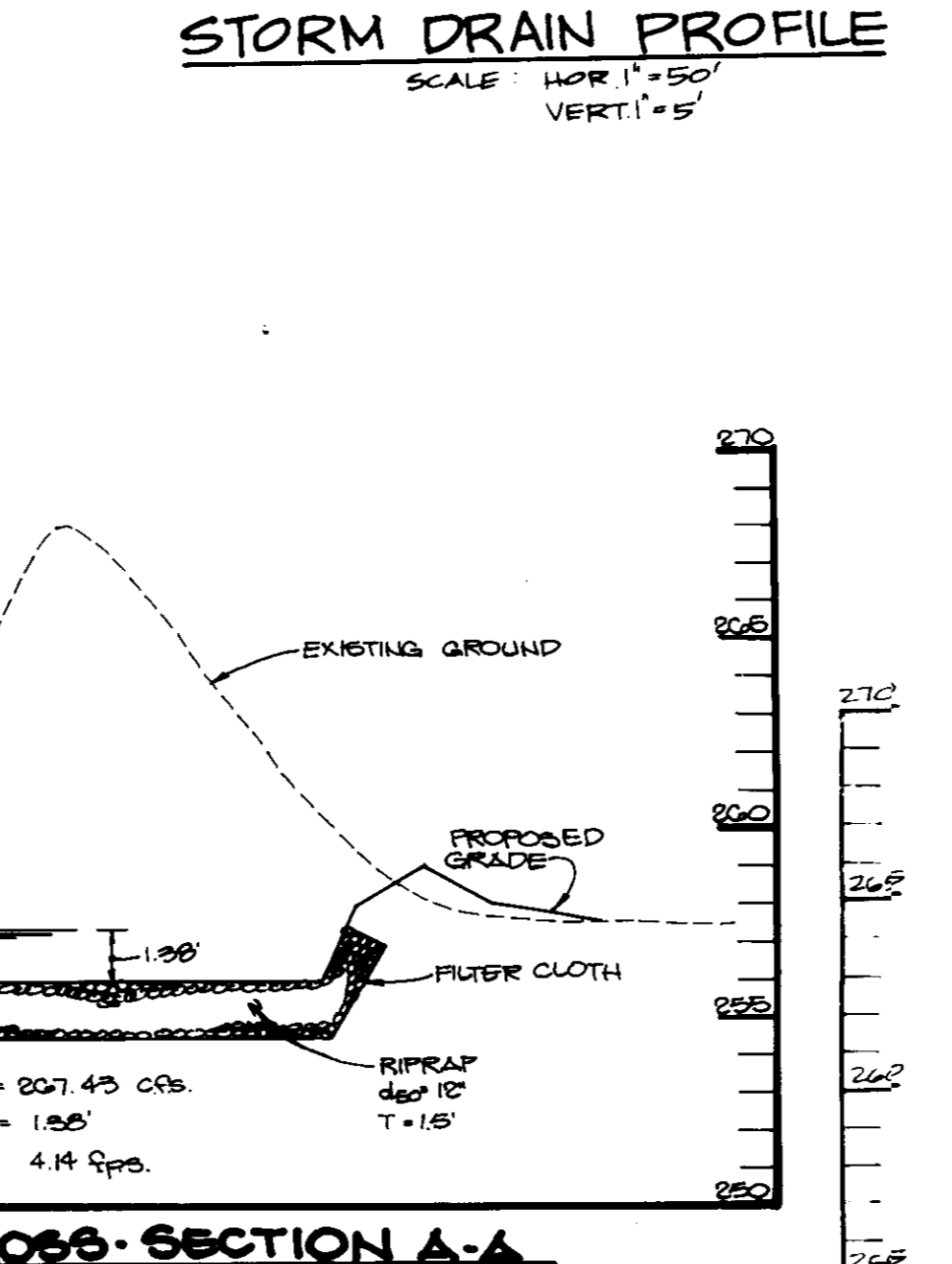
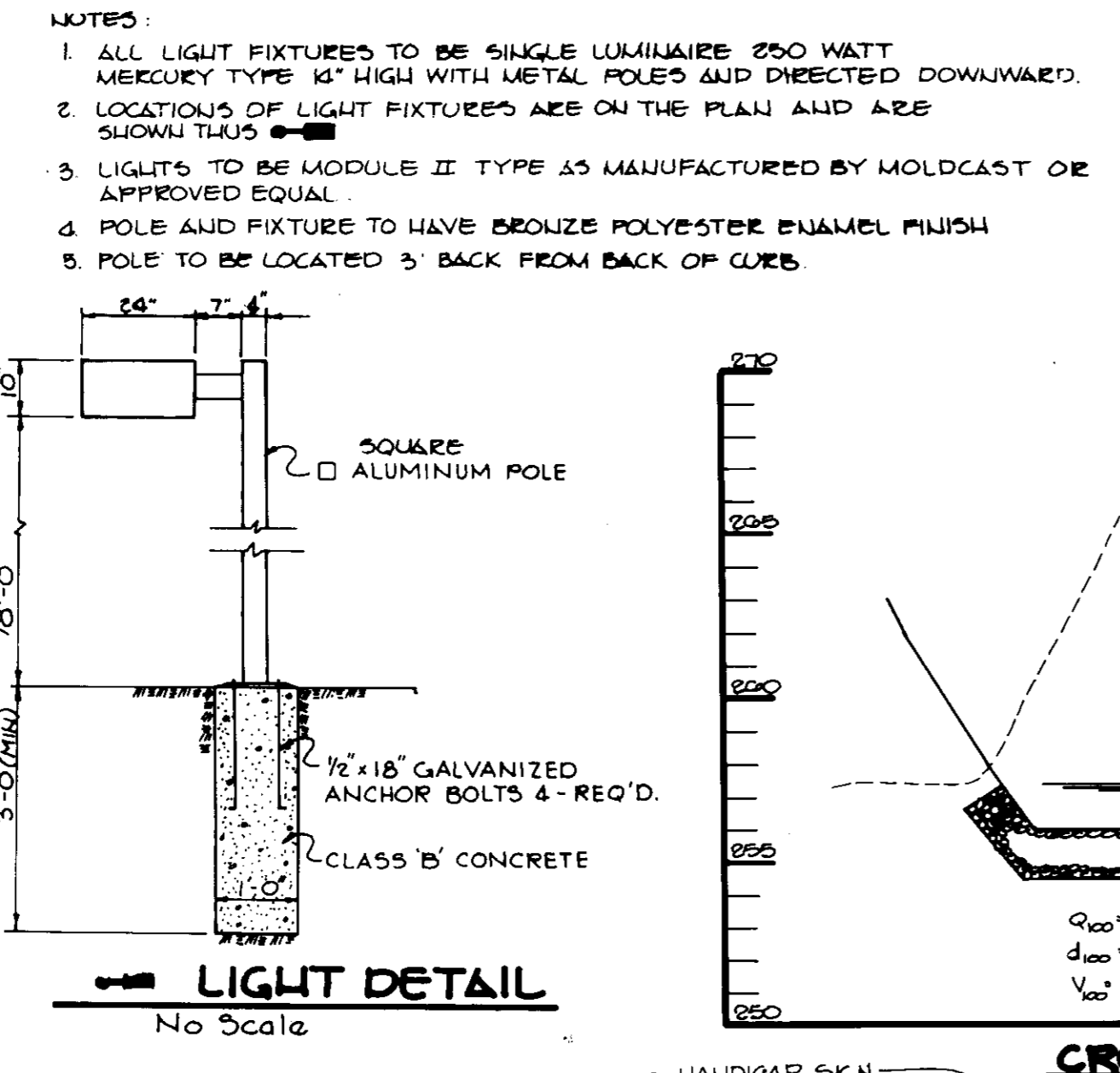
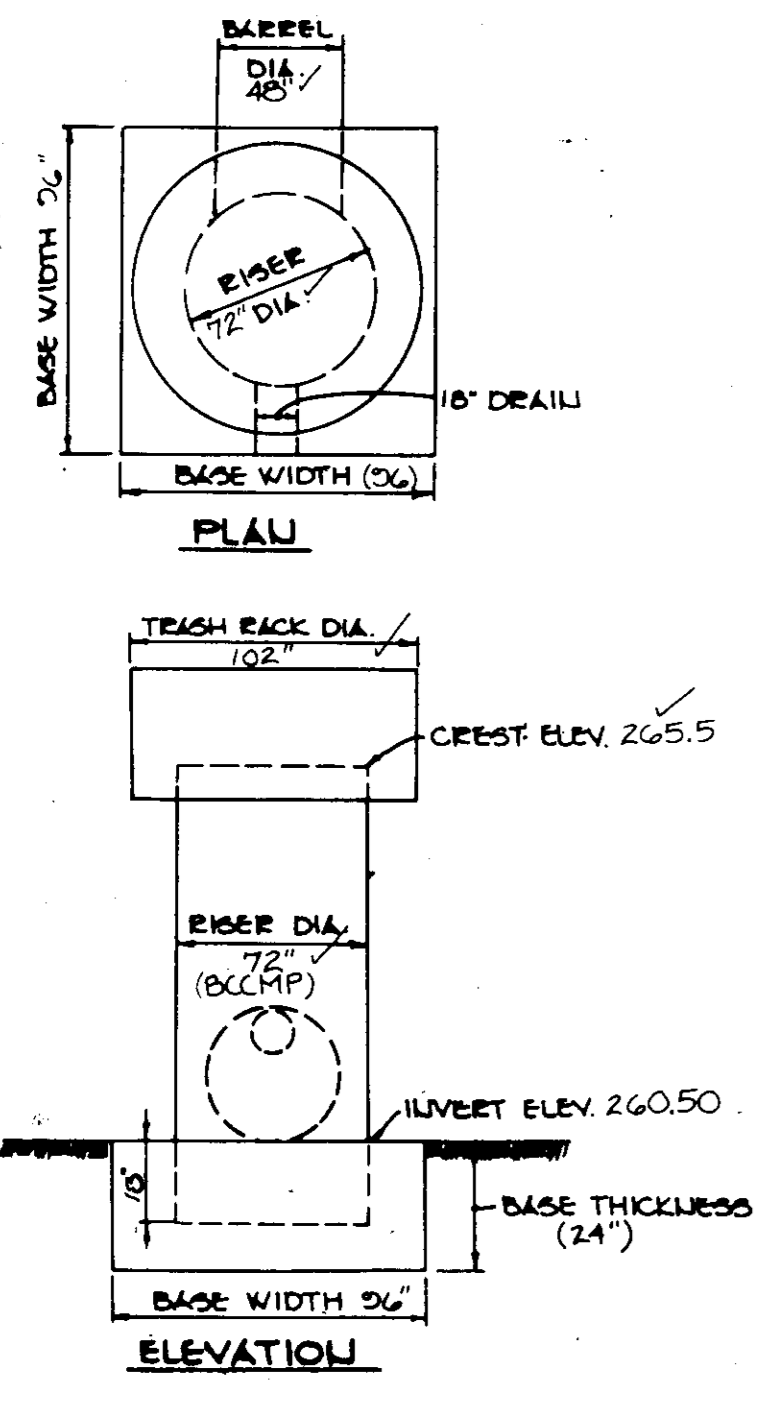
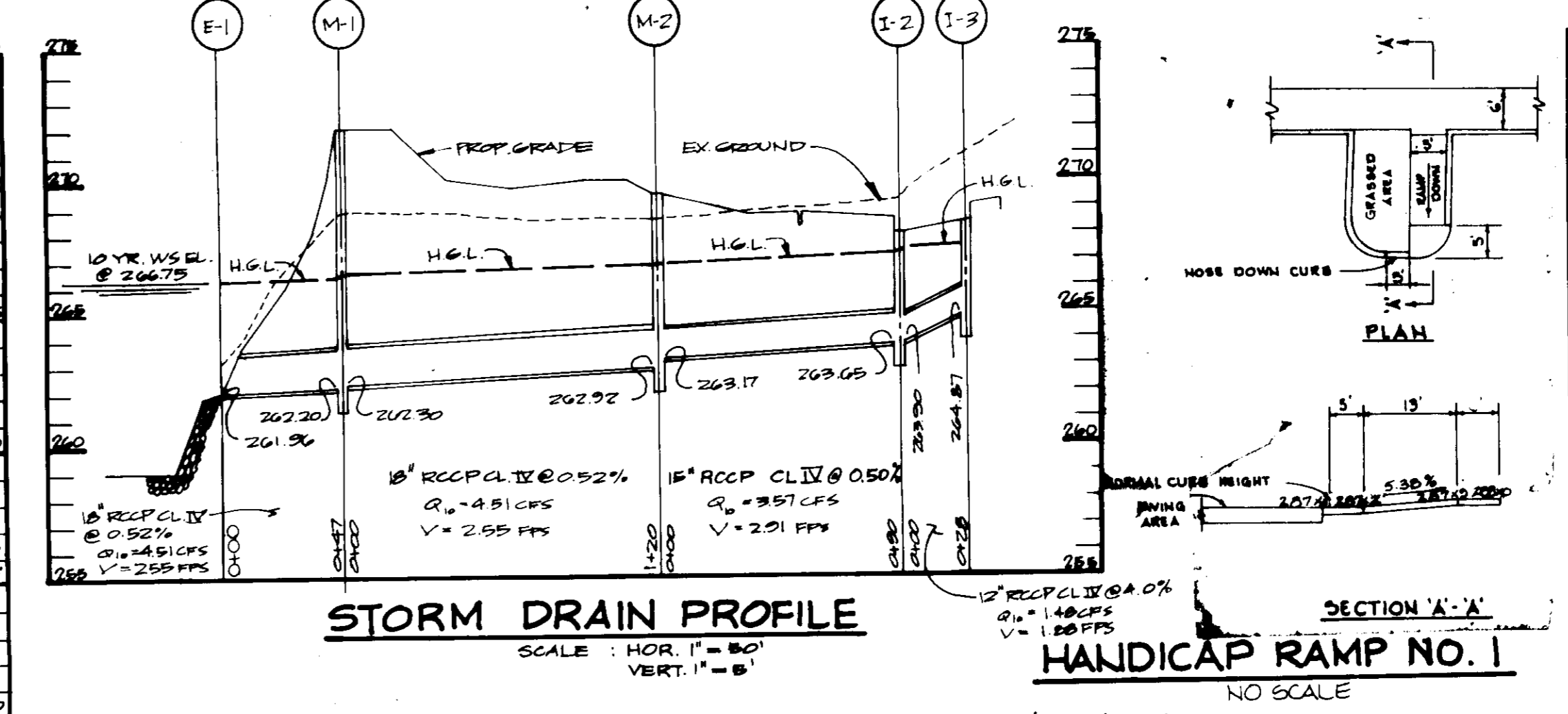
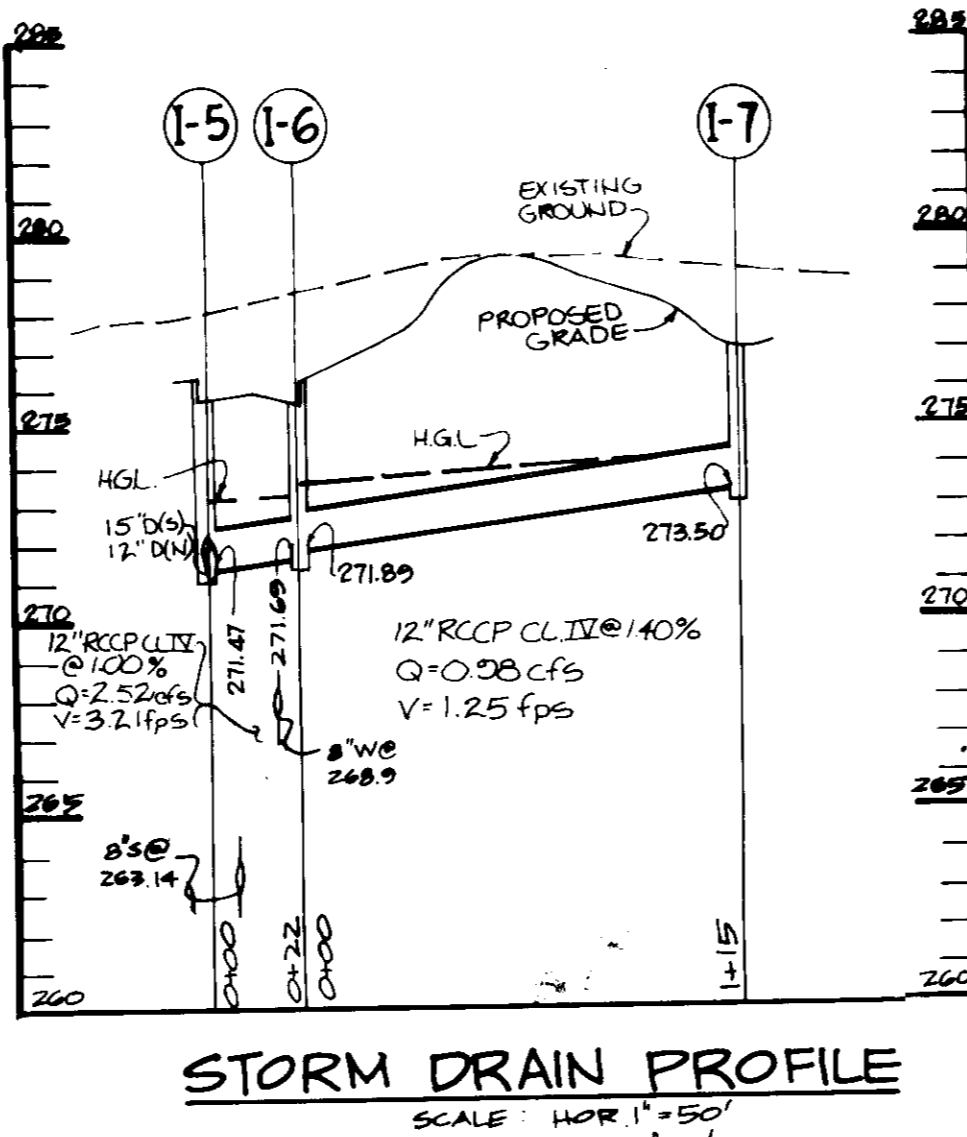
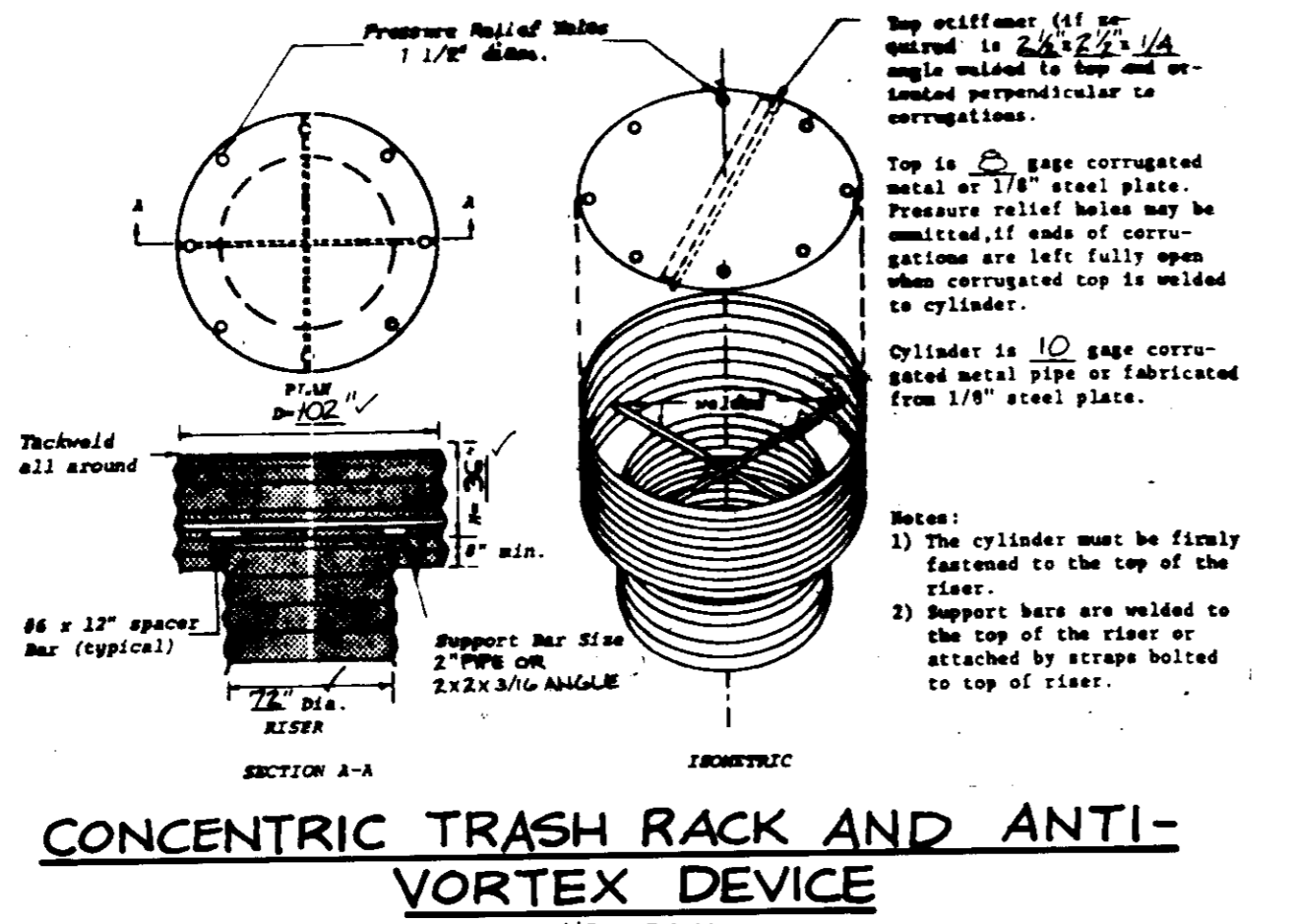
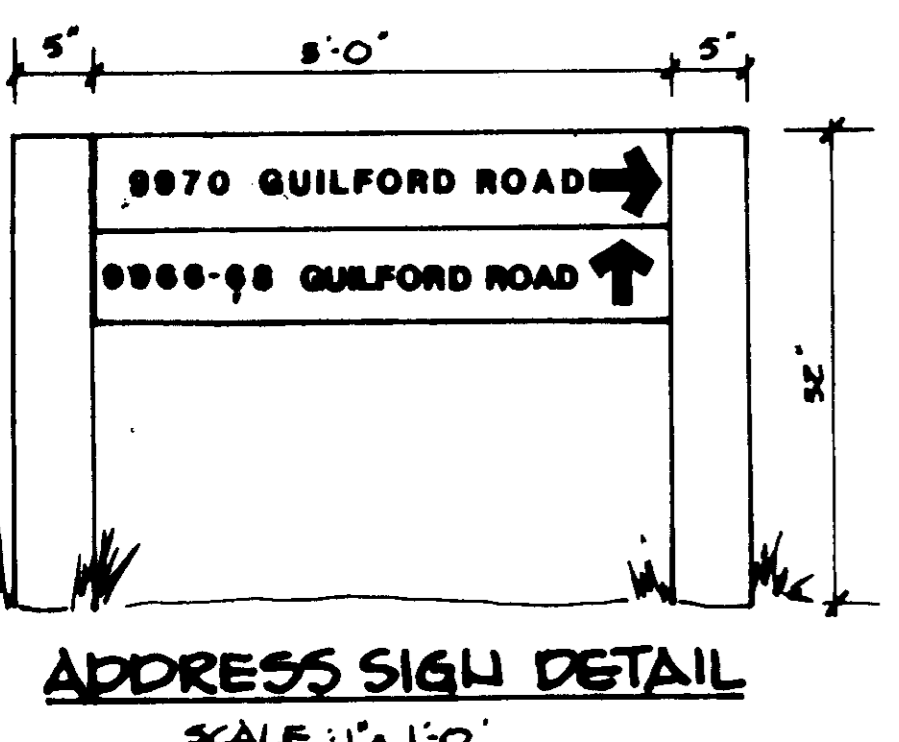
AS-BUILT CERTIFICATION

*J. [Signature]* 3.19.97  
JAYKANT D. PAREKH DATE

APPROVED  
DIVISION OF LAND DEVELOPMENT & ZONING ADMINISTRATION  
HOWARD COUNTY, MARYLAND  
DATE **2-1-88**

DATE <b>4.28.88</b>	S-86-24	S-86-30	F-86-167
DESIGNED BY DAM	VP-86-38	AA-86-08	EA-86-16
DRAWN BY DDB			
PROJECT NO 25405			
DATE SEPT 24, 1987			
SCALE AS SHOWN			
DRAWING NO. 4 OF 10			





BY THE DEVELOPER:  
 "I CERTIFY THAT ALL DEVELOPMENT AND/OR CONSTRUCTION WILL BE DONE ACCORDING TO THESE PLANS, AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF NATURAL RESOURCES APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I WILL PROVIDE THE HOWARD SOIL CONSERVATION DISTRICT WITH AN 'AS-BUILT' PLAN OF THE POND WITHIN 30 DAYS OF COMPLETION. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT."  
 DEVELOPER: *Arthur E. Muegge* DATE: 9-23-88

BY THE ENGINEER:  
 "I CERTIFY THAT THIS PLAN FOR POND CONSTRUCTION, EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS. THIS PLAN WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT. I HAVE NOTIFIED THE DEVELOPER THAT HE MUST PROVIDE THE HOWARD SOIL CONSERVATION DISTRICT WITH AN 'AS-BUILT' PLAN OF THE POND WITHIN 30 DAYS OF COMPLETION."  
 ENGINEER: *Arthur E. Muegge* DATE: 9-23-88

APPROVED: *James M. H. ...* DATE: 10/7/88  
 H.S. SOIL CONSERVATION SERVICE

APPROVED: *J. ...* DATE: 3.7.87  
 JAYKANT D. PAREK \*1948 DATE

APPROVED: *Howard ...* DATE: 10/7/88  
 HOWARD COUNTY HEALTH DEPARTMENT

APPROVED: *...* DATE: 10-13-87  
 COUNTY HEALTH OFFICER

APPROVED: *...* DATE: 10-17-87  
 PLANNING DIRECTOR

APPROVED: *...* DATE: 10-11-88  
 CHIEF, DIVISION OF CONCRETE PLANNING AND LEAD DEVELOPMENT

APPROVED: *...* DATE: 10-11-88  
 CHIEF BUREAU OF ENGINEERING

APPROVED: *...* DATE: 10-11-88  
 DIRECTOR

PROJECT: NORTH GREENBRIER APARTMENT COMPLEX  
 AREA TAX MAP 42 PLAT 116 0000 PARCEL A  
 6TH ELECTION DISTRICT  
 HOWARD COUNTY, MARYLAND

TITLE: STORM DRAIN PROFILES AND DETAIL SHEET

THE RIEMER GROUP, INC.  
 The Riemer Group, Inc. A Land Planning, Design & Civil Engineering Firm  
 3105 Heath Park Drive, Ellicott City, Maryland 21043 (301) 441-2880  
 DATE: 9-29-88  
 DESIGNED BY: DAM  
 DRAWN BY: D.D.B.  
 PROJECT NO: 25405  
 DATE SEPT 24, 1987  
 SCALE: AS SHOWN  
 DRAWING NO. 5 OF 10



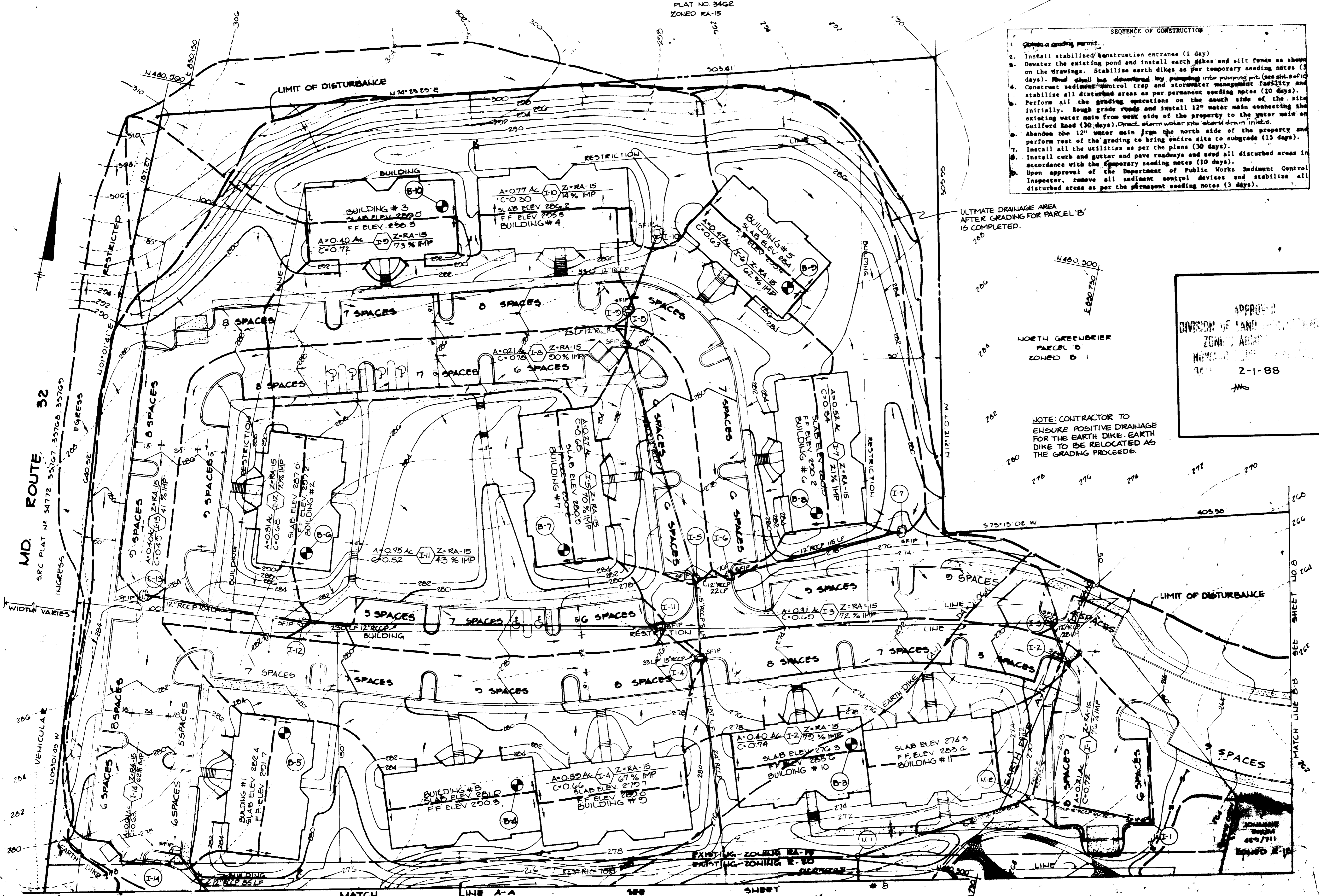




- B-1 BROWN SILTY CLAY, TRACE OF SAND AND FRAGMENTS (ML/CL)
- B-2 GRAY BROWN SILTY CLAY, TRACE OF SAND AND ROCK FRAGMENTS (CL)
- B-3 GREEN SILTY CLAY, CLAYEY SILT (ML)
- B-4 GRAY BROWN SILTY CLAY, TRACE OF SAND (ML)

**BORING LOGS AT EMBANKMENT**

GUILFORD NEIGHBORHOOD PLAT  
PLAT NO. 3422  
ZONED RA-15



- SEQUENCE OF CONSTRUCTION**
1. Install stabilized construction entrance (1 day)
  2. Devote the existing pond and install earth dikes and silt fence as shown on the drawings. Stabilize earth dikes as per temporary seeding notes (3 days). Flood shall be abated by pumping into pumping pit. (see note #10)
  3. Construct sediment control trap and stormwater management facility and stabilize all disturbed areas as per permanent seeding notes (10 days).
  4. Perform all the grading operations on the south side of the site initially. Rough grade roads and install 12" water main connecting the existing water main from west side of the property to the water main on Guilford Road (30 days). Direct storm water into storm drain inlet.
  5. Abandon the 12" water main from the north side of the property and perform rest of the grading to bring entire site to subgrade (15 days).
  6. Install all the utilities as per the plans (30 days).
  7. Install curb and gutters and pave roadways and seed all disturbed areas in accordance with the temporary seeding notes (10 days).
  8. Upon approval of the Department of Public Works Sediment Control Inspector, remove all sediment control devices and stabilize all disturbed areas as per the permanent seeding notes (3 days).

ULTIMATE DRAINAGE AREA AFTER GRADING FOR PARCEL 'B' IS COMPLETED.

NORTH GREENBRIER  
PARCEL 'B'  
ZONED B-1

NOTE: CONTRACTOR TO ENSURE POSITIVE DRAINAGE FOR THE EARTH DIKE. EARTH DIKE TO BE RELOCATED AS THE GRADING PROCEEDS.

APPROVED  
DIVISION OF LAND  
ZONING  
2-1-88

BY THE DEVELOPER:  
"I CERTIFY THAT ALL NECESSARY CONSTRUCTION WILL BE DONE ACCORDING TO THESE PLANS AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF NATURAL RESOURCES APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I WILL PROVIDE THE HOWARD SOIL CONSERVATION DISTRICT WITH AN 'AS-BUILT' PLAN OF THE POND WITHIN 30 DAYS OF COMPLETION. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT."  
DATE 9-23-88  
DEVELOPER

BY THE ENGINEER:  
"I CERTIFY THAT THIS PLAN FOR POND CONSTRUCTION, EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS. THIS PLAN WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT. I HAVE NOTIFIED THE HOWARD SOIL CONSERVATION DISTRICT WITH AN 'AS-BUILT' PLAN OF THE POND WITHIN 30 DAYS OF COMPLETION."  
DATE 9-29-88  
ENGINEER

THESE PLANS HAVE BEEN REVIEWED FOR THE HOWARD SOIL CONSERVATION DISTRICT AND MEET THE TECHNICAL REQUIREMENTS FOR SMALL POND CONSTRUCTION, SOIL EROSION AND SEDIMENT CONTROL.  
DATE 10/7/88

THESE PLANS FOR POND CONSTRUCTION, SOIL EROSION AND SEDIMENT CONTROL, MEET THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.  
DATE 10/7/88

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT.  
DATE 10-14-88

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING.  
DATE 10-17-88

APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS.  
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS  
DATE 10-11-88

DATE NO REVISION

OWNER/DEVELOPER  
N.G.A. LIMITED PARTNERSHIP  
ONE OAKWOOD BUSINESS CENTER  
2000 OAKLAND MILLS ROAD  
SUITE 100  
COLUMBIA, MARYLAND 21046

PROJECT **NORTH GREENBRIER APARTMENT COMPLEX**

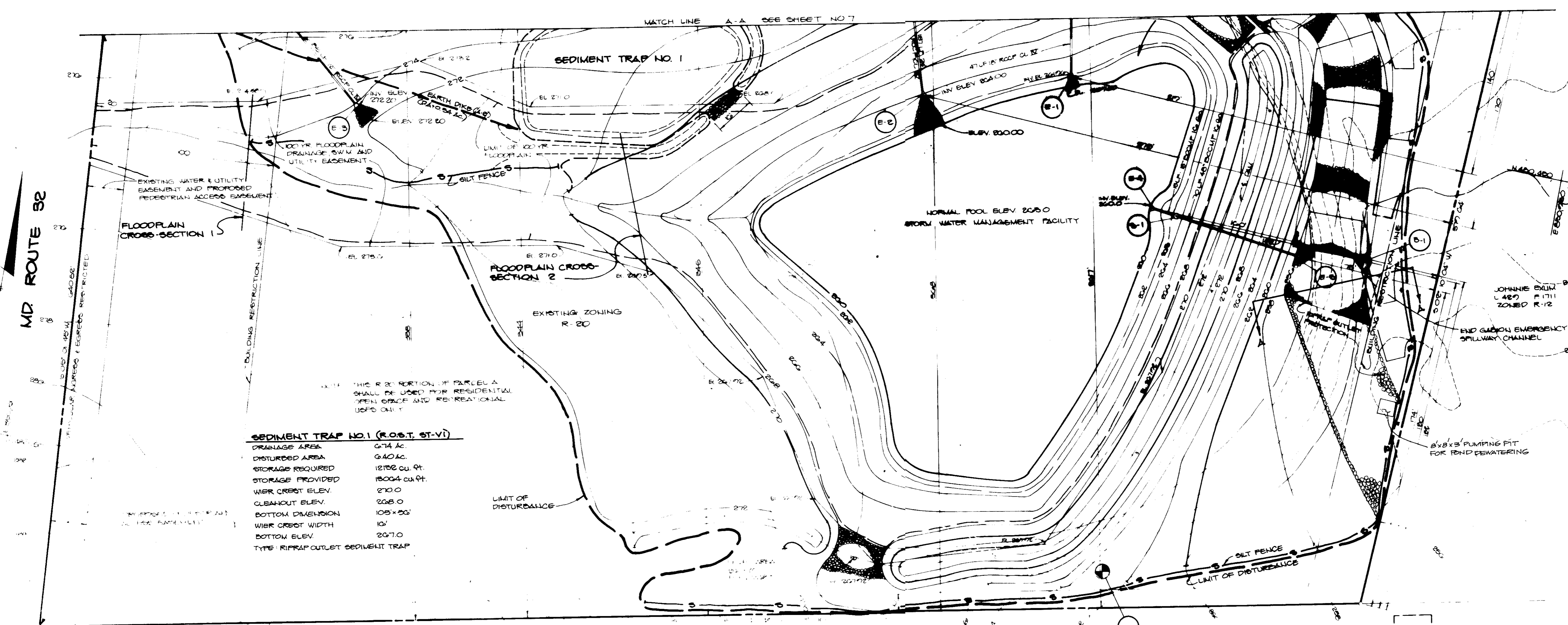
AREA TAX MAP 42 PLAT NO. 6999 PARCEL A  
8th ELECTION DISTRICT  
HOWARD COUNTY, MARYLAND

TITLE **SEDIMENT CONTROL PLAN AND DRAINAGE AREA MAP**

**THE RIEMER GROUP, INC.**  
The Riemer Group, Inc. A Land Planning, Design & Civil Engineering Firm  
3100 Health Park Drive, Ellicott City, Maryland 21043 (301) 481-2890

DATE 9-29-88  
DESIGNED BY D.A.M.  
DRAWN BY D.D.B.  
PROJECT NO 28488  
DATE SEPT 24, 1987  
SCALE 1"=50'  
DRAWING NO. 7 OF 10



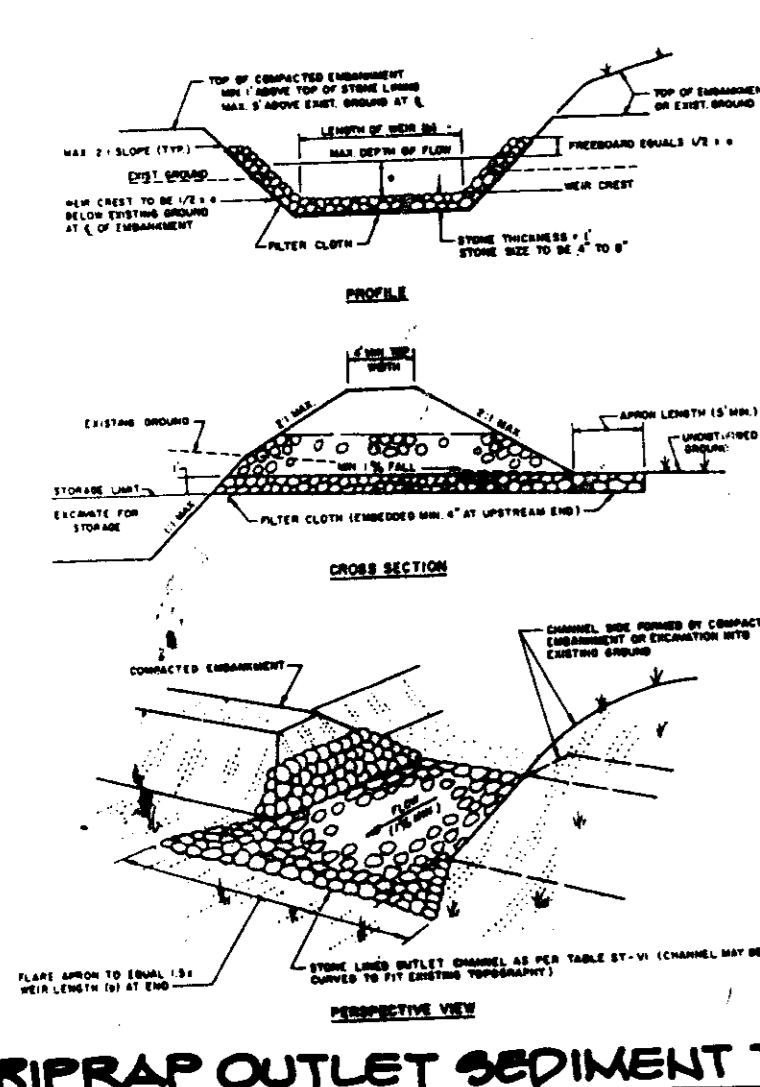
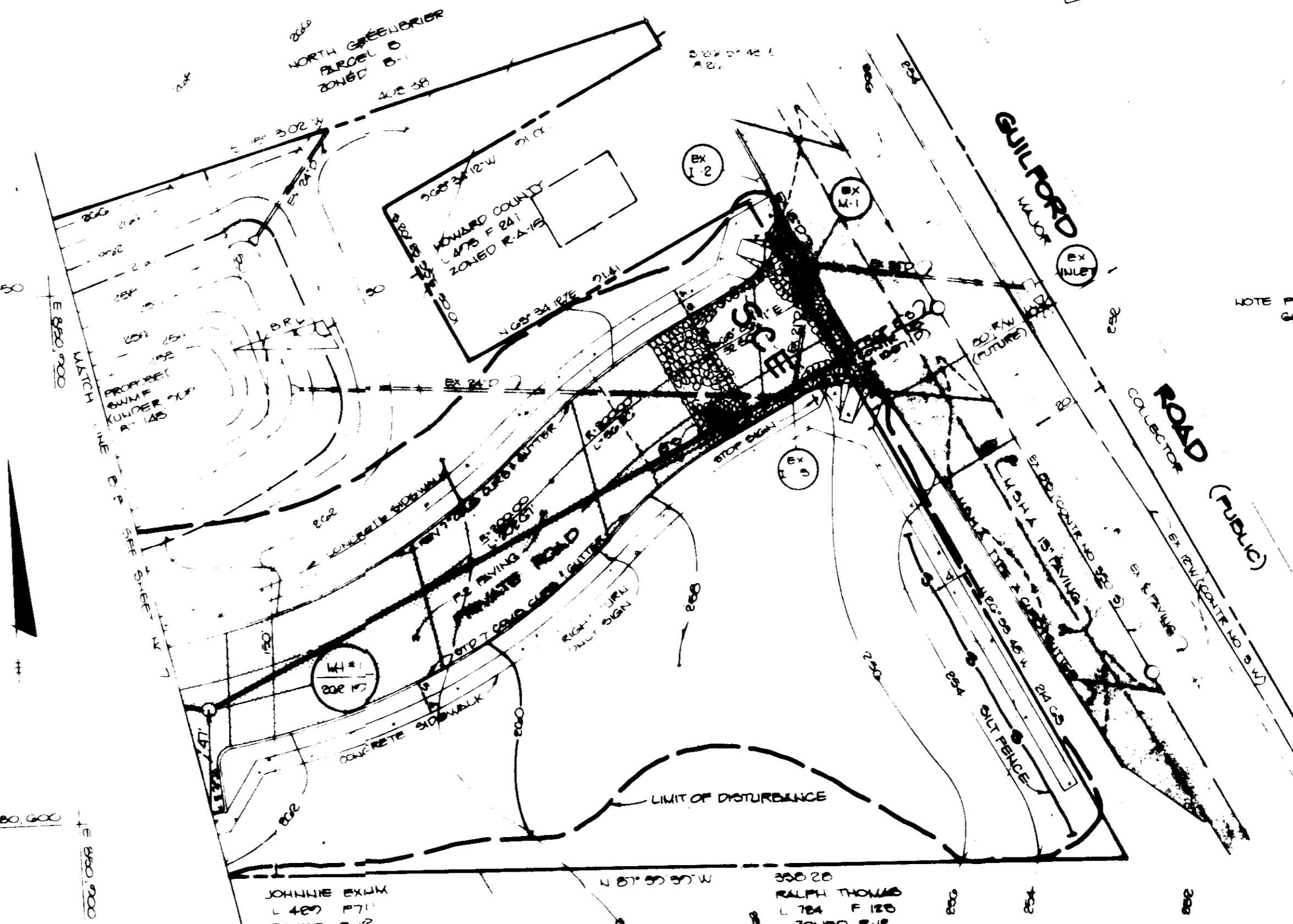


**SEDIMENT TRAP NO. 1 (R.O.S.T. ST-VI)**

DRAINAGE AREA	0.74 AC.
DISTURBED AREA	0.40 AC.
STORAGE REQUIRED	18192 CU. FT.
STORAGE PROVIDED	18004 CU. FT.
WATER CREST ELEV.	210.0
CLEANOUT ELEV.	208.0
BOTTOM DIMENSION	108' X 20'
WATER CREST WIDTH	10'
BOTTOM ELEV.	207.0
TYPE	RIPRAP OUTLET SEDIMENT TRAP

**STRUCTURE SCHEDULE**

NO.	TYPE	LOCATION	INV. IN.	INV. OUT.	TOP OF CURB OR RIM ELEVATION	REMARKS
M-1	4'0" STD. BRICK MANHOLE	SEE PLAN 2	262.30	262.20	272.00	Ho. Co. Std. SD-5.01
M-2	4'0" STD. BRICK MANHOLE	SEE PLAN 2	263.17 (15') 262.92 (10')	262.92	263.70	Ho. Co. Std. SD-5.01
I-10	15" Comb., Ret. Grate undepressed	See PLAN 2	—	272.53	277.78	Ho. Co. Std. SD-4.32
I-13	Double 15", Ret. Grate	See " 2	—	280.10	283.64	Ho. Co. Std. SD-4.23
I-12	15" Comb., Ret. Grate undepressed	See " 2	276.36	276.36	281.48	Ho. Co. Std. SD-4.32
I-11	Double 15" Comb., Ret. Grate undepressed	See " 2	272.22	271.77	276.43	Ho. Co. Std. SD-4.33
I-10	Yard Inlet	See " 2	—	280.10	282.80	Ho. Co. Std. SD-4.14
I-9	15" Inlet, Ret. Grate	See " 2	278.64	278.44	282.54	Ho. Co. Std. SD-4.22
I-8	15" Comb., Ret. Grate undepressed	See " 2	277.98	277.78	282.79	Ho. Co. Std. SD-4.32
I-7	Yard Inlet	See " 2	—	273.50	276.90	Ho. Co. Std. SD-4.14
I-6	15" Comb., Ret. Grate undepressed	See " 2	271.89	271.69	276.25	Ho. Co. Std. SD-4.32
I-5	15" Comb., Ret. Grate undepressed	See " 2	271.47	271.01	276.25	Ho. Co. Std. SD-4.32
I-4	A-10 Inlet	See " 2	270.70	269.74	275.83	Ho. Co. Std. SD-4.02
I-3	15" Comb., Ret. Grate undepressed	See " 2	—	264.87	269.39	Ho. Co. Std. SD-4.32
I-2	15" Comb., Ret. Grate undepressed	See " 2	263.20	263.69	268.53	Ho. Co. Std. SD-4.32
I-1	15" Comb., Ret. Grate undepressed	See " 2	—	263.31	267.48	Ho. Co. Std. SD-4.32
E-5	48" BOBPE, End Section	See " 3	255.00	—	—	Ho. Co. Std. SD-5.61
E-4	18" BOBPE, End Section	See " 3	260.00	—	—	Ho. Co. Std. SD-5.61
E-3	12" Conc., End Section	See " 3	272.20	—	—	Ho. Co. Std. SD-5.51
E-2	24" Conc., End Section	See " 3	264.00	—	—	Ho. Co. Std. SD-5.51
E-1	15" Conc., End Section	See " 3	261.96	—	—	Ho. Co. Std. SD-5.51
S-1	Special Structure	See " 3	263.00	260.50	—	See Sheet 5
*	RIM ELEVATION					



BY THE DEVELOPER:  
 "I CERTIFY THAT ALL DEVELOPMENT AND/OR CONSTRUCTION WILL BE DONE ACCORDING TO THESE PLANS, AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF NATURAL RESOURCES APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I WILL PROVIDE THE HOWARD SOIL CONSERVATION DISTRICT WITH AN 'AS-BUILT' PLAN OF THE POND WITHIN 30 DAYS OF COMPLETION. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT."  
 DEVELOPER: *Arthur E. Muegge* DATE: 9-23-88

BY THE ENGINEER:  
 "I CERTIFY THAT THIS PLAN FOR POND CONSTRUCTION, EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS. THIS PLAN WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT. I HAVE NOTIFIED THE DEVELOPER THAT HE MUST PROVIDE THE HOWARD SOIL CONSERVATION DISTRICT WITH AN 'AS-BUILT' PLAN OF THE POND WITHIN 30 DAYS OF COMPLETION."  
 ENGINEER: *Arthur E. Muegge* DATE: 9-29-88

THESE PLANS HAVE BEEN REVIEWED FOR THE HOWARD SOIL CONSERVATION DISTRICT AND MEET THE TECHNICAL REQUIREMENTS FOR SMALL POND CONSTRUCTION, SOIL EROSION AND SEDIMENT CONTROL.  
 U.S. SOIL CONSERVATION SERVICE: *Johnnie E. Baker* DATE: 10/7/88

THESE PLANS FOR SMALL POND CONSTRUCTION, SOIL EROSION AND SEDIMENT CONTROL MEET THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.  
 APPROVED: *Richard J. Ziemer* DATE: 10/1/88  
 HOWARD S.C.D.

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS - HOWARD COUNTY HEALTH DEPARTMENT  
 HEALTH DEPARTMENT: *Johnnie E. Baker* DATE: 10-14-88

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS - HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS  
 PUBLIC WORKS: *Arthur E. Muegge* DATE: 10-7-88

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS - HOWARD COUNTY DEPARTMENT OF PLANNING AND DEVELOPMENT  
 PLANNING AND DEVELOPMENT: *Frank J. Longley* DATE: 11-14-88

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS - HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS  
 PUBLIC WORKS: *Arthur E. Muegge* DATE: 10-11-88

DATE	NO.	REVISION

OWNER - DEVELOPER  
 NGA A LIMITED PARTNERSHIP  
 ONE OAKWOOD BUSINESS CENTER  
 2050 OAKLAND MILLS ROAD  
 SUITE 100  
 COLUMBIA MARYLAND 21044

PROJECT - NORTH GREENBRIER APARTMENT COMPLEX

AREA - "AS SHOWN" MAP NO. 00000 5TH ELECTION DISTRICT HOWARD COUNTY MARYLAND

TITLE - SEDIMENT CONTROL PLAN AND DRAINAGE AREA MAP

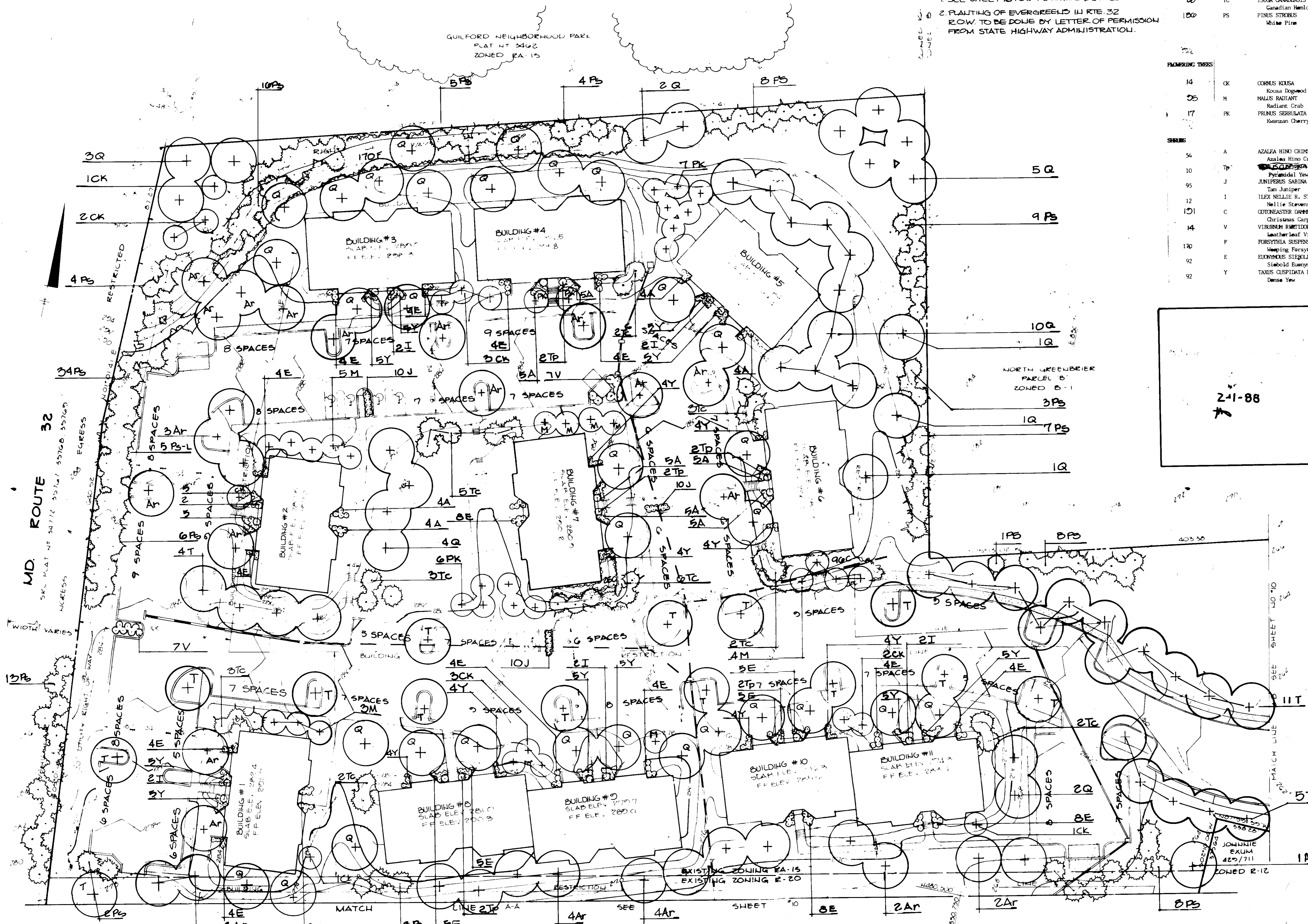
THE RIEMER GROUP, INC.  
 The Riemer Group, Inc. A Land Planning, Design & Civil Engineering Firm  
 3105 North Ridge Road, Ellicott City, Maryland 21042 (301) 461-2000

DATE: 9-29-88  
 DESIGNED BY: *Arthur E. Muegge*  
 DRAWN BY: *Arthur E. Muegge*  
 PROJECT NO: 2064-88  
 DATE: *9-29-88*  
 SCALE: AS SHOWN  
 DRAWING NO: 01 OF 01

2-1-88

60P-57-184





NOTES:  
 1. SEE SHEET 10 FOR PLANTING DETAILS.  
 2. PLANTING OF EVERGREEN IN RTE. 32 ROW TO BE DONE BY LETTER OF PERMISSION FROM STATE HIGHWAY ADMINISTRATION.

Quantity	Symbol	Name	Size	Remarks
<b>SHADE TREES</b>				
71	Q	QUERCUS PALAESTRIS Pin Oak	2 1/2" Cal., 13'-15' ht.	B&B, Full Head
50	T	TILIA CORDATA 'GREENSPIRE' Littleaf Linden	2 1/2" Cal., 13'-14' ht.	B&B, Full Head
42	AR	ACER RUBRUM Red Maple	2 1/2" Cal., 13'-14' ht.	B&B, Full Head
<b>EVERGREEN TREES</b>				
20	TC	TSUGA CANADENSIS Canadian Hemlock	2 1/2" Cal., 6'-8' ht.	B&B, Well Branched, Unsheared
100	PS	PINUS STROBUS White Pine	2 1/2" Cal., 6'-8' ht.	B&B, Well Branched, Unsheared Plant 12"-15" O.C.
<b>FLAMINGO TREES</b>				
14	CK	CORNUS KOUSA Kousa Dogwood	2"-2 1/2" Cal., 8'-10' ht.	B&B, Full Head
55	M	MALUS RADIANT Radiant Crab	2"-2 1/2" Cal., 8'-10' ht.	B&B, Full Head
17	PK	PRUNUS SERRULATA 'KANZAN' Kanzan Cherry	2"-2 1/2" Cal., 8'-10' ht.	B&B, Full Head
<b>SHRUBS</b>				
54	A	AZALEA HIND CRISSON Azalea Hino Crismon	18"-24" spd.	B&B, or Container Plant 3" O.C.
10	TP	TRICHODENDRON CAPRATA Pyramidal Yew	3 1/2'-4' ht.	B&B, or Container
95	J	JUNIPERUS SABINA TAMARISCIFOLIA Tom Juniper	18"-24" Spread	B&B, or Container Plant 3" O.C.
12	I	ILEX NELLE R. STEVENS Nelle Stevens Holly	3 1/2'-4' ht.	B&B, or Container Contain Form
101	C	COTONEASTER DAMMERI SKOGSHOLM Christmas Carpet Cotoneaster	15"-18" Spread	Container Plant 42" O.C.
14	V	VIBURNUM RUMICORDATUM Leatherleaf Viburnum	3'-4' ht.	B&B
170	F	FOXYTHIA SUSPENS Weeping Forsythia	2'-3' ht.	B&B, Container Plant 3" O.C.
92	E	ELONMYRUS SIEBOLDIANA Siebold Eumyrcus	18"-24" ht.	B&B, or Container Plant 42" O.C.
92	Y	TAXUS CUSPIDATA DENSIFORMIS Dense Yew	18"-24" ht.	B&B, or Container Plant 42" O.C.

2-1-88

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS  
 HOWARD COUNTY HEALTH DEPARTMENT

APPROVED FOR PUBLIC WATER, PUBLIC SEWERAGE, STORM  
 DRAINAGE SYSTEMS AND PUBLIC ROADS  
 HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

DATE NO. REVISION

OWNER/DEVELOPER  
 N.G.A. LIMITED PARTNERSHIP  
 ONE OAKWOOD BUSINESS CENTER  
 7050 CAMLAND MILLS ROAD  
 SUITE 100  
 COLUMBIA, MARYLAND 21046

PROJECT  
**NORTH GREENBRIER  
 APARTMENT COMPLEX**

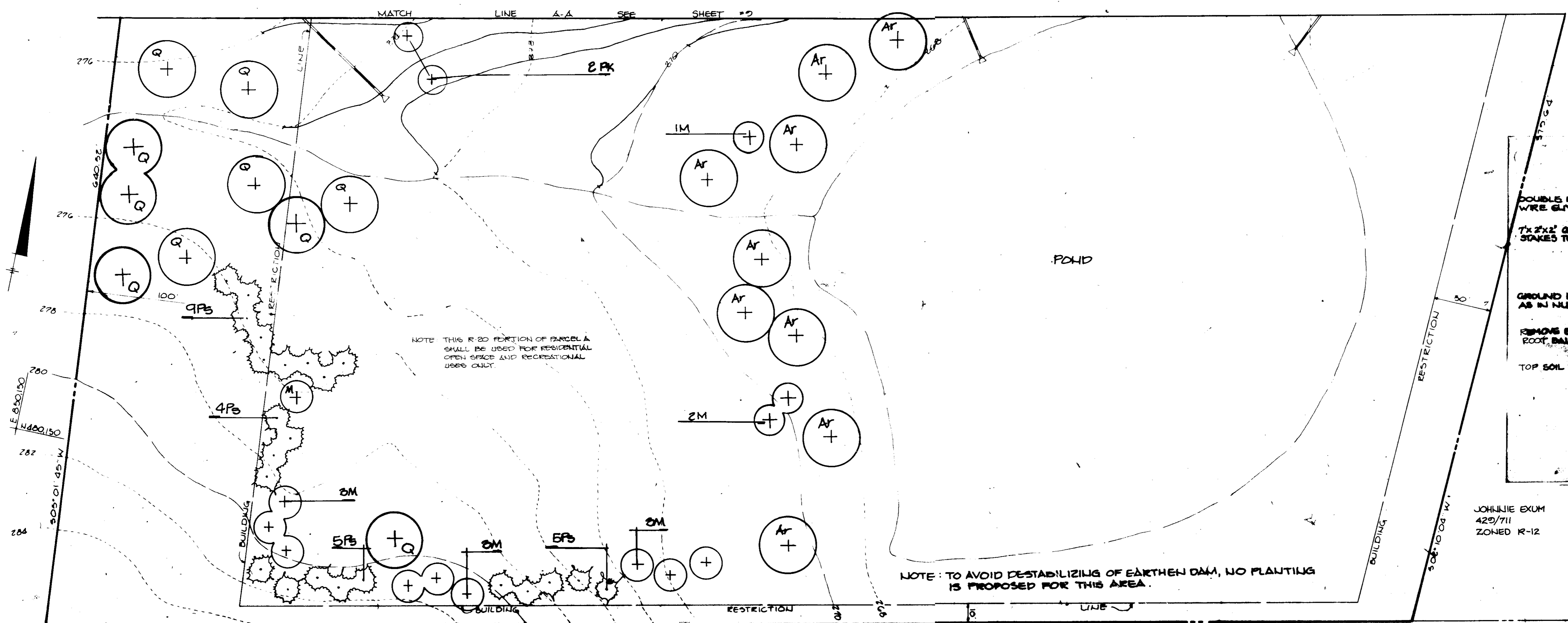
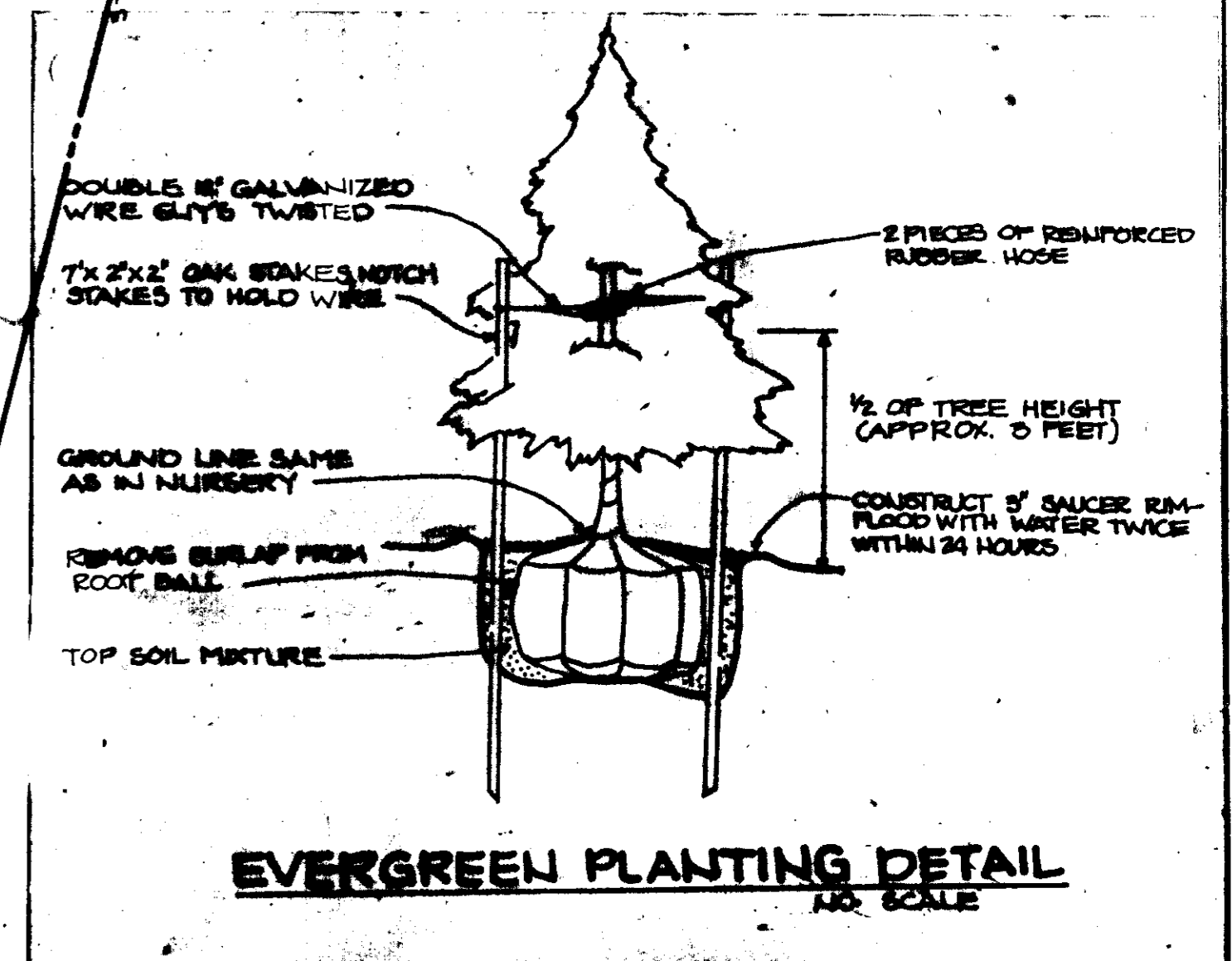
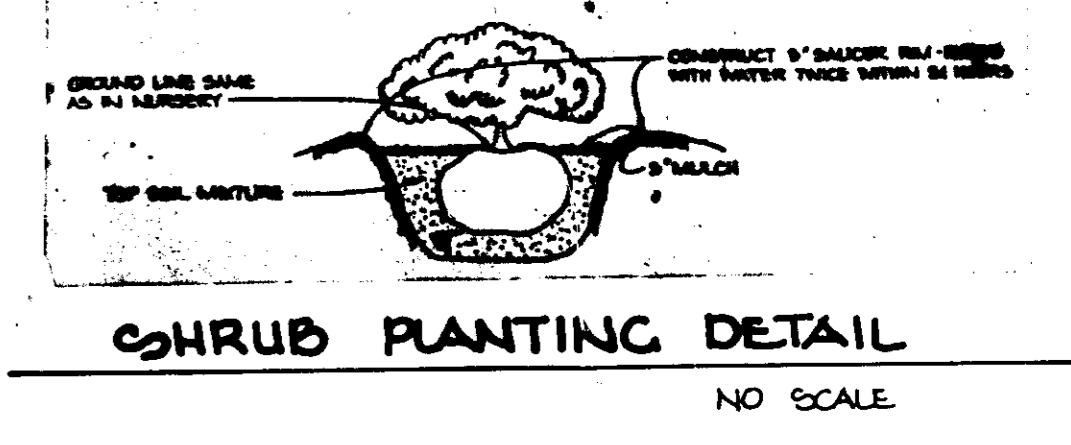
AREA TAX MAP 42 PLAT No. 6986 PARCEL A  
 8TH ELECTION DISTRICT  
 HOWARD COUNTY, MARYLAND

TITLE  
**PLANTING PLAN**

THE RIEMER GROUP, INC.  
 The Riemer Group, Inc. A Land Planning, Design & Civil Engineering Firm  
 3105 Health Park Drive, Ellicott City, Maryland 21043 (301) 481-2890

DATE 9-24-87  
 DESIGNED BY R.L.H.  
 DRAWN BY R.L.H.  
 PROJECT NO. 25405  
 DATE SEPT 24, 1987  
 SCALE 1"=30'  
 DRAWING NO. 9 OF 10





APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT.  
 COUNTY HEALTH OFFICER: [Signature] # [Number] DATE: 10/14/88

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING.  
 PLANNING DIRECTOR: [Signature] DATE: 10/17/88

APPROVED: CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT.  
 [Signature] DATE: 1-14-88

APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS.  
 HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS  
 DIRECTOR: [Signature] DATE: 10/11/88

CHIEF, BUREAU OF ENGINEERING: [Signature] DATE: 10-11-88

DATE	NO.	REVISION
OWNER/DEVELOPER		
N.G.A. LIMITED PARTNERSHIP ONE OAKWOOD BUSINESS CENTER 7050 OAKLAND MILLS ROAD SUITE 100 COLUMBIA, MARYLAND 21046		
PROJECT		
<b>NORTH GREENBRIER APARTMENT COMPLEX</b>		
AREA TAX MAP 48 PLAT No. 6000 PARCEL A 8th ELECTION DISTRICT HOWARD COUNTY, MARYLAND		
TITLE		
<b>PLANTING PLAN</b>		

APPROVED  
 DIVISION OF LAND DEVELOPMENT & ZONING ADMINISTRATION  
 HOWARD COUNTY, MARYLAND  
 DATE: 2-1-88

THE RIEMER GROUP, INC.  
 The Riemer Group, Inc. A Land Planning, Design & Civil Engineering Firm  
 3105 Health Park Drive, Ellicott City, Maryland 21043 (501) 481-2000

4-29-88  
 DATE

DESIGNED BY R.L.H.  
 DRAWN BY R.L.H.  
 PROJECT NO. 88-088  
 DATE: SEPT 24, 1987  
 SCALE: 1"=50'  
 SHEET NO. 10 OF 10

MELANIE E. MOSER  
 LANDSCAPE ARCHITECT

