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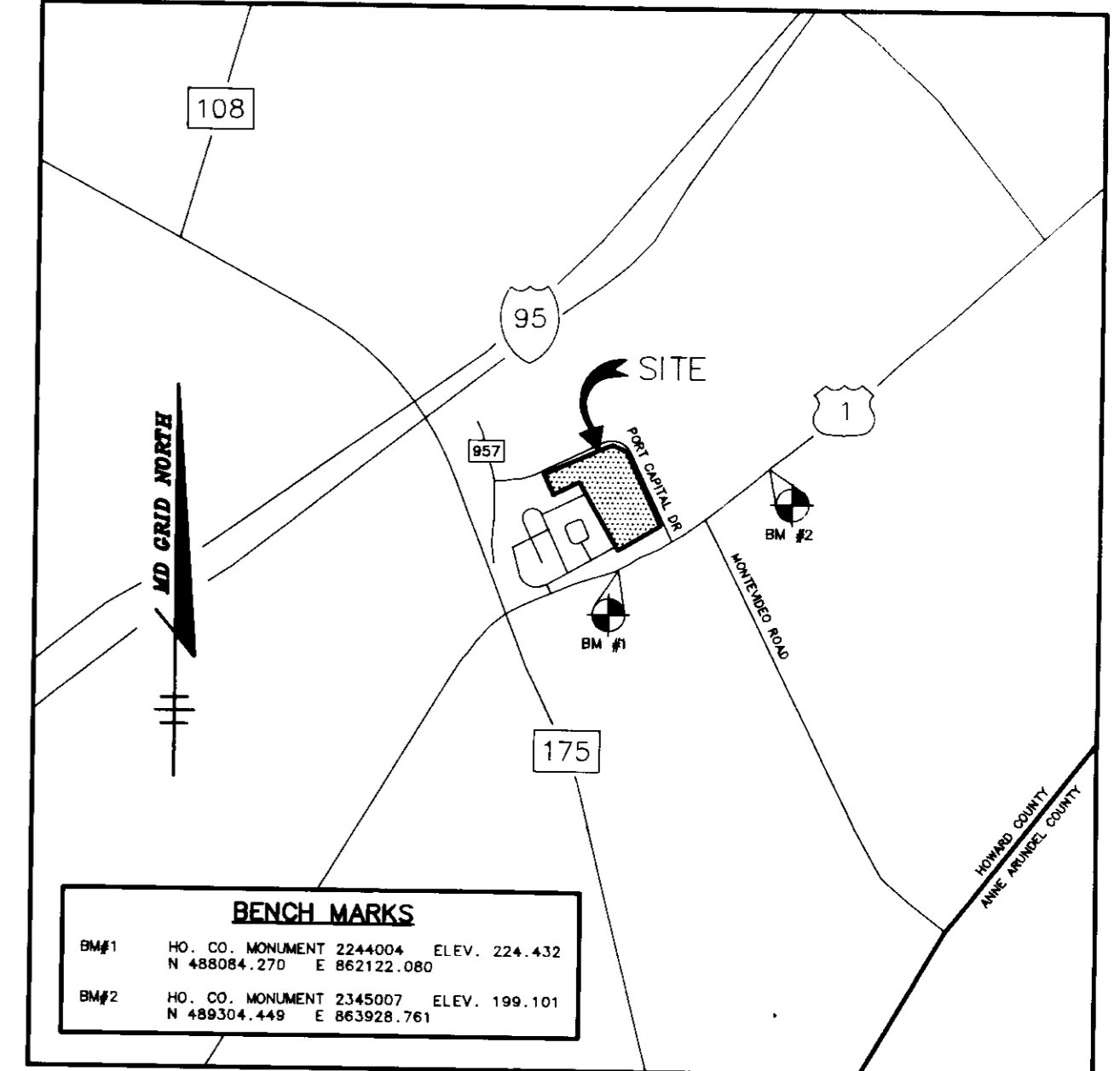
SITE DEVELOPMENT PLAN

ALADDIN MOBILE HOME PARK

PHASE II

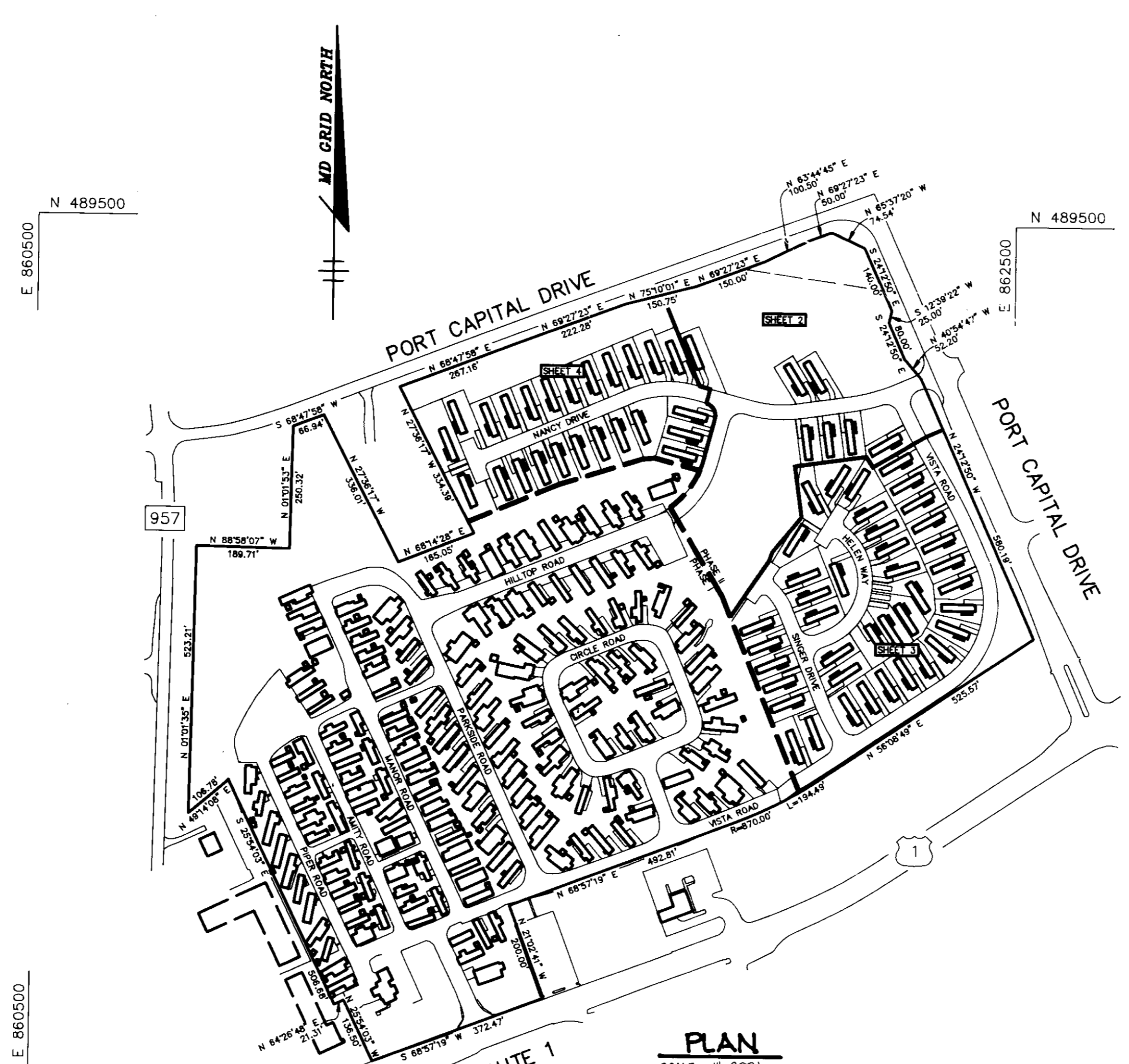
6th ELECTION DISTRICT

HOWARD COUNTY, MARYLAND



ADDRESS CHART			
PAD NUMBER	STREET ADDRESS	PAD NUMBER	STREET ADDRESS
1	7616 NANCY DRIVE	37	7610 VISTA ROAD
2	7616 NANCY DRIVE	38	7620 VISTA ROAD
3	7626 NANCY DRIVE	39	7622 VISTA ROAD
4	7626 NANCY DRIVE	40	7624 VISTA ROAD
5	7636 NANCY DRIVE	41	7626 VISTA ROAD
6	7636 NANCY DRIVE	42	7628 VISTA ROAD
7	7636 NANCY DRIVE	43	7630 VISTA ROAD
8	7636 NANCY DRIVE	44	7632 VISTA ROAD
9	7636 NANCY DRIVE	45	7634 VISTA ROAD
10	7640 NANCY DRIVE	46	7636 VISTA ROAD
11	7642 NANCY DRIVE	47	7605 SINGER DRIVE
12	7644 NANCY DRIVE	48	7607 SINGER DRIVE
13	7646 NANCY DRIVE	49	7701 HELEN WAY
14	7648 NANCY DRIVE	50	7703 HELEN WAY
15	7650 NANCY DRIVE	51	7705 HELEN WAY
16	7649 NANCY DRIVE	52	7707 HELEN WAY
17	7647 NANCY DRIVE	53	7709 HELEN WAY
18	7649 NANCY DRIVE	54	7711 HELEN WAY
19	7643 NANCY DRIVE	55	7713 HELEN WAY
20	7641 NANCY DRIVE	56	7715 HELEN WAY
21	7639 NANCY DRIVE	57	7717 HELEN WAY
22	7637 NANCY DRIVE	58	7719 HELEN WAY
23	7635 NANCY DRIVE	59	7721 HELEN WAY
24	7633 NANCY DRIVE	60	7723 HELEN WAY
25	7631 NANCY DRIVE	61	7725 HELEN WAY
26	7629 HILLTOP ROAD	62	7611 SINGER DRIVE
27	7627 HILLTOP ROAD	63	7613 SINGER DRIVE
28	7625 NANCY DRIVE	64	7615 SINGER DRIVE
29	7623 NANCY DRIVE	65	7617 SINGER DRIVE
30	7621 NANCY DRIVE	66	7619 SINGER DRIVE
31	7620 VISTA ROAD	67	7621 SINGER DRIVE
32	7620 VISTA ROAD	68	7623 SINGER DRIVE
33	7620 VISTA ROAD	69	7625 SINGER DRIVE
34	7620 VISTA ROAD	70	7627 VISTA ROAD
35	7620 VISTA ROAD	71	7629 VISTA ROAD
36	7620 VISTA ROAD		

PAD AREA AND BUILDING COVERAGE CHART							
PAD NUMBER	PAD AREA (SQ.FT.)	COVERAGE (SQ.FT.)	PERCENTAGE	PAD NUMBER	PAD AREA (SQ.FT.)	COVERAGE (SQ.FT.)	PERCENTAGE
1	4275	1216	28	37	4275	1216	28
2	5664	1216	21	38	4167	1222	29
3	5852	1216	21	39	4792	980	20
4	4839	1216	25	40	4622	1222	27
5	4832	1536	32	41	4757	980	21
6	4360	1536	35	42	4262	1536	36
7	4275	1536	36	43	4275	1536	36
8	4275	1536	36	44	4275	1536	36
9	4275	1536	36	45	4275	1536	36
10	4275	1536	36	46	4754	1536	36
11	4275	1536	36	47	4719	1536	36
12	4100	1536	37	48	4182	1216	29
13	5060	1536	30	49	5442	2016	37
14	5162	1536	29	50	4881	1536	31
15	8348	1536	18	51	4859	1536	31
16	5009	2016	40	52	5716	2016	35
17	5001	2016	40	53	4819	1536	31
18	4180	1536	37	54	3930	1536	39
19	4275	1536	36	55	4190	1216	29
20	4378	1536	35	56	4687	1232	26
21	4575	1536	34	57	5221	1232	24
22	4772	1536	32	58	6191	1232	20
23	4562	1216	27	59	5538	2016	36
24	6242	1536	24	60	4944	1702	34
25	4304	1216	28	61	6998	980	14
26	5000	1220	24	62	5071	2016	40
27	5125	2016	39	63	4324	1536	36
28	4276	1536	36	64	5878	1702	29
29	4275	1536	36	65	5160	2016	39
30	4277	1536	36	66	5100	2016	39
31	4287	1536	36	67	4100	1536	37
32	4275	1536	36	68	4277	1536	36
33	4275	1536	36	69	4276	1536	36
34	4381	1536	35	70	5332	1702	32
35	4577	1536	34	71	5005	1216	24
36	4431	1536	35				



GENERAL NOTES (CONT.)

10. WETLANDS DISTURBANCE AS SHOWN ON THESE PLANS IS TO BE PERFORMED IN ACCORDANCE WITH MARYLAND DEPT. OF NATURAL RESOURCES PERMIT NO. DE-NT-0215 WHICH EXPIRES ON JULY 1, 2005, AND MARYLAND DEPT. OF THE ENVIRONMENT WATER QUALITY CERTIFICATION NO. 02-WQ-0124 WHICH EXPIRES ON JULY 1, 2005.

11. WP-02-105 - A REQUEST TO WAIVE SECTION 10.116 (C) (5) TO PERMIT THE REMOVAL OF VEGETATIVE COVER AND GRADING WITHIN WETLANDS, 25 FOOT WETLAND BUFFERED AND 75 FOOT ORELAND BUFFERED FOR THE PROPOSED ROAD CROSSING ROAD TO TURNAROUND, STORMWATER MANAGEMENT FACILITY AND UNITS ON MOBILE HOME SITES 1, 2, 3 & 4 WAS APPROVED MAY 1, 2002.

12. WP-02-104 - A REQUEST TO WAIVE SECTION 10.147 WHICH REQUIRED THAT BUILDING PERMIT MUST BE OBTAINED FROM THE SIGNATURE APPROVAL OF THE SITE DEVELOPMENT PLAN ORIGINAL WAS DENIED APRIL 8, 2002.

13. WP-02-103 - A REQUEST TO WAIVE SECTION 10.150 (K) TO PERMIT A 180 DAY EXTENSION TO SUBMIT THE ORIGINAL DRAWINGS FOR SIGNATURE APPROVAL WAS APPROVED JUNE 3, 2002.

14. WP-02-102 - A REQUEST TO WAIVE SECTION 10.150 (L) TO PERMIT A 180 DAY EXTENSION TO SUBMIT THE ORIGINAL DRAWINGS FOR SIGNATURE APPROVAL WAS APPROVED JANUARY 6, 2002.

GENERAL NOTES (CONT.)

16. CONDITIONS AND MANAGEMENT PRACTICES FOR WORKING IN WETLANDS:

A. PLACE MATERIALS IN A LOCATION AND MANNER WHICH DOES NOT ADVERSELY IMPACT SURFACE OR SUBSURFACE WATER FLOW INTO OR OUT OF THE WETLANDS.

B. RECTIFY ANY HORIZONTAL WETLANDS TEMPORARILY IMPACTED BY THE PROPOSED CONSTRUCTION. ALL TEMPORARILY FILLED SHALL BE REMOVED IN FULL ENTIRETY ON OR BEFORE THE COMPLETION OF CONSTRUCTION.

C. REPAIR AND MAINTAIN ANY REMAINING STRUCTURE OR FILL, SO THERE IS NO PERMANENT LOSS OF HORIZONTAL WETLANDS IN EXCESS OF HORIZONTAL WETLANDS LOST UNDER THE ORIGINAL STRUCTURE OR FILL.

D. WORK MUST COMPLY WITH ALL CONDITIONS OF THE WATER QUALITY CERTIFICATION ISSUED FOR THIS PROJECT.

17. STORM DRAINAGE SYSTEM TO BE PRIVATELY MAINTAINED.

ALADDIN MOBILE HOME PARK	PHASE II	PARCELS	12, 118		
LOT/BLK/ROW	BLK/ROW	TAX MAP NO.	ELECT. DIST.	GENUS TRACT	
L 500 F 645	3, 9	R-MH	43	6th	6012
WATER CODE	801	GENUS CODE	242000		

- 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.B., STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION, 1990 AMENDMENTS.
 - 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 (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
 - CMP TELEPHONE COMPANY
 - HOWARD COUNTY BUREAU OF UTILITIES
 - AT&T CABLE LOCATION DIVISION
 - BALTIMORE GAS & ELECTRIC COMPANY
 - STATE HIGHWAY ADMINISTRATION
 - HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS/CONSTRUCTION INSPECTION DIVISION
 - 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 SURVEY DATED AUGUST, 1991 BY RIEMER MUEGGE & ASSOCIATES, INC. AND FROM AERIAL TOPO DATED JULY, 1991 BY WINGS MAPPING.
 - ALL PLAN DIMENSIONS ARE TO FACE OF CURB UNLESS OTHERWISE NOTED.
 - ALL STORM DRAIN PIPE BEDDING SHALL BE AS SHOWN IN DETAIL 02.01 (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, STORMWATER MANAGEMENT PRACTICES AND THE DISCHARGE OF STORMWATER 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 ADJACENT PROPERTIES INCLUDED IN THIS PLAN.
 - THE PAYMENT DETAILS SHOWN ON THESE PLANS REFLECT THE HOWARD COUNTY MINIMUM STANDARD PAVEMENT SECTIONS AND ARE NOT BASED ON SITE SPECIFIC CONDITIONS. PRIOR TO PAYING THE FINAL PAYMENT SECTIONS SHALL BE DETERMINED BY A QUALIFIED GEOTECHNICAL ENGINEER BASED ON IN-SITU TESTING OF THE FINISHED SUBGRADE. THE TESTING AND GEOTECHNICAL ENGINEER SHALL BE FURNISHED BY THE OWNER.

SITE TABULATION	
TOTAL AREA OF SUBMISSION	19.053 AC. (805,703 SF)
EXISTING ZONING	R-MH
PROPOSED USE	MOBILE HOME RENTAL LOTS
AREA OF 100 YEAR FLOODPLAIN	0.510 AC. (22,215 SF)
AREA OF 25% & GREATER SLOPES	0.580 AC. (25,265 SF)
NET AREA	15.953 AC.
DENSITY PERMITTED @ 8 D.U./NET AREA	123 D.U.
DENSITY PROPOSED @ 4.6 D.U./NET AREA	71 D.U.
PERMITTED PAD COVERAGE	40%
PROPOSED PAD COVERAGE	36% PAD AREA AND EXISTING COVERAGE CHART THIS SHEET
PARKING REQUIRED @ 2/LOT	142 SPACES
PARKING PROPOSED @ 2/LOT	142 SPACES
OPEN SPACE REQUIRED 25% OF GROSS AREA	5.765 AC. (125,916 SF)
OPEN SPACE PROPOSED 35% OF GROSS AREA	6.665 AC. (219,256 SF)
DRY GROUND RECREATION REQUIRED @ 50%	1.882 AC. (81,958 SF)
DRY GROUND RECREATION PROPOSED @ 99%	2.815 AC. (122,534 SF)
AREA OF FLOODPLAIN, STEEP SLOPES, STORMWATER MANAGEMENT & WETLANDS WITHIN OPEN SPACE	2.220 AC. (96,703 SF)

VICINITY PLAN
SCALE: 1"=200'

AS BUILT CERTIFICATE

DATE: _____

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

James M. B... 7/5/94
COUNTY HEALTH OFFICER DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.

March S. Taylor 8/15/94
DIRECTOR DATE

Uma Summari 8/17/94
CHIEF, DIVISION OF LAND DEVELOPMENT AND RESEARCH DATE

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

Alan M. Sangam 7/20/94
DIRECTOR (Amm) DATE

Charles Anderson 7/20/94
CHIEF, BUREAU OF ENGINEERING DATE

7-0-95 1 REV BIDS COVERAGE CHART & SITE TAB. PAD COVERAGE

DATE NO. REVISION

OWNER / DEVELOPER
THE CARLYLE GROUP
C/O RONALD H. SINGER
9073 NEMO STREET
LOS ANGELES, CA 90069

PROJECT
ALADDIN MOBILE HOME PARK
PHASE II

AREA ZONED R-MH TAX MAP 43 PARCELS 12, 118
ELECTION DISTRICT 6
HOWARD COUNTY, MARYLAND

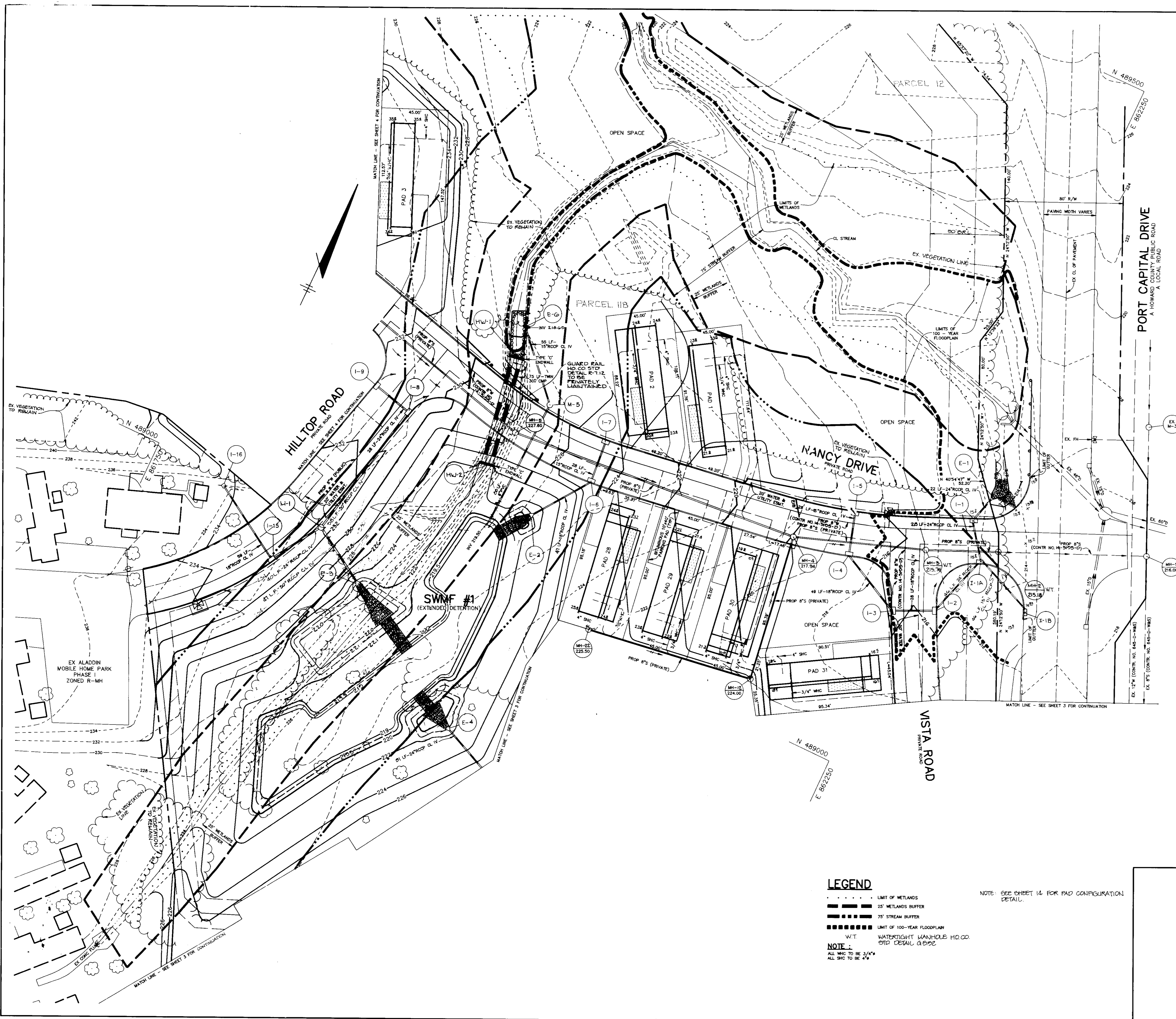
TITLE
TITLE SHEET

RIEMER MUEGGE & ASSOCIATES, INC.
A Land Planning, Engineering and Consulting Firm
8818 Centre Park Drive - Suite 200 • Columbia, Md 21045
410-997-8900 FAX: 410-997-9282

DATE: 7.6.94

CHECKED BY: J.P.O.
DESIGNED BY: W.C.W.
DRAWN BY: W.C.W.
PROJECT NO: 77804
DATE: JULY 6, 1994
SCALE: AS SHOWN
DRAWING NO. 1 OF 21

Arthur E. Muegge #8707
ARTHUR E. MUEGGE



PORT CAPITAL CENTER
678 / 19
ZONED M-1

- LEGEND**
- LIMIT OF WETLANDS
 - - - 25' WETLANDS BUFFER
 - 75' STREAM BUFFER
 - LIMIT OF 100-YEAR FLOODPLAIN
 - W-T WATER TIGHT WASHHOLE HO CO DETAIL 8/02
- NOTE:**
ALL WIC TO BE 3/4"
ALL S/C TO BE 1/4"

NOTE: SEE SHEET 14 FOR PAD CONFIGURATION DETAIL.

AS BUILT CERTIFICATE	
JAYKANT D. PAREKH # 10140	DATE
APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT.	
<i>James M. ...</i>	DATE
APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.	
<i>Mark S. ...</i>	DATE
<i>Jim ...</i>	DATE
APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS.	
<i>Olga M. ...</i>	DATE
<i>Elizabeth ...</i>	DATE
1-3-95 2	ADDED 25' WIC PAD TO LOT 30 + 25' WIC PAD TO LOT 31
10-5-04 1	ADDED W.T. W/H TO MH 2 & MH 3
DATE NO.	REVISION
OWNER / DEVELOPER	
THE CARLYLE GROUP C/O RONALD H. SINGER 9073 NEMO STREET LOS ANGELES, CA 90069	
PROJECT	
ALADDIN MOBILE HOME PARK PHASE II	
AREA ZONED R-MH TAX MAP 43 PARCEL 12, 118 ELECTION DISTRICT 6 HOWARD COUNTY, MARYLAND	
TITLE	
SITE DEVELOPMENT PLAN	
RIEMER MUEGGE & ASSOCIATES, INC. A Land Planning, Engineering and Consulting Firm 8818 Centre Park Drive • Suite 200 • Columbia, Md 21045 410-997-8900 FAX: 410-997-9282	
7-8-94 DATE	CHECKED BY: J.P.O.
	DESIGNED BY: W.C.W.
	DRAWN BY: W.C.W.
	PROJECT NO: 77804
	DATE: JULY 8, 1994
	SCALE: 1"=30'
<i>Arthur E. Muegge</i> ARTHUR E. MUEGGE #8707	DRAWING NO. 2 OF 21

TRAILER PAD NOTES

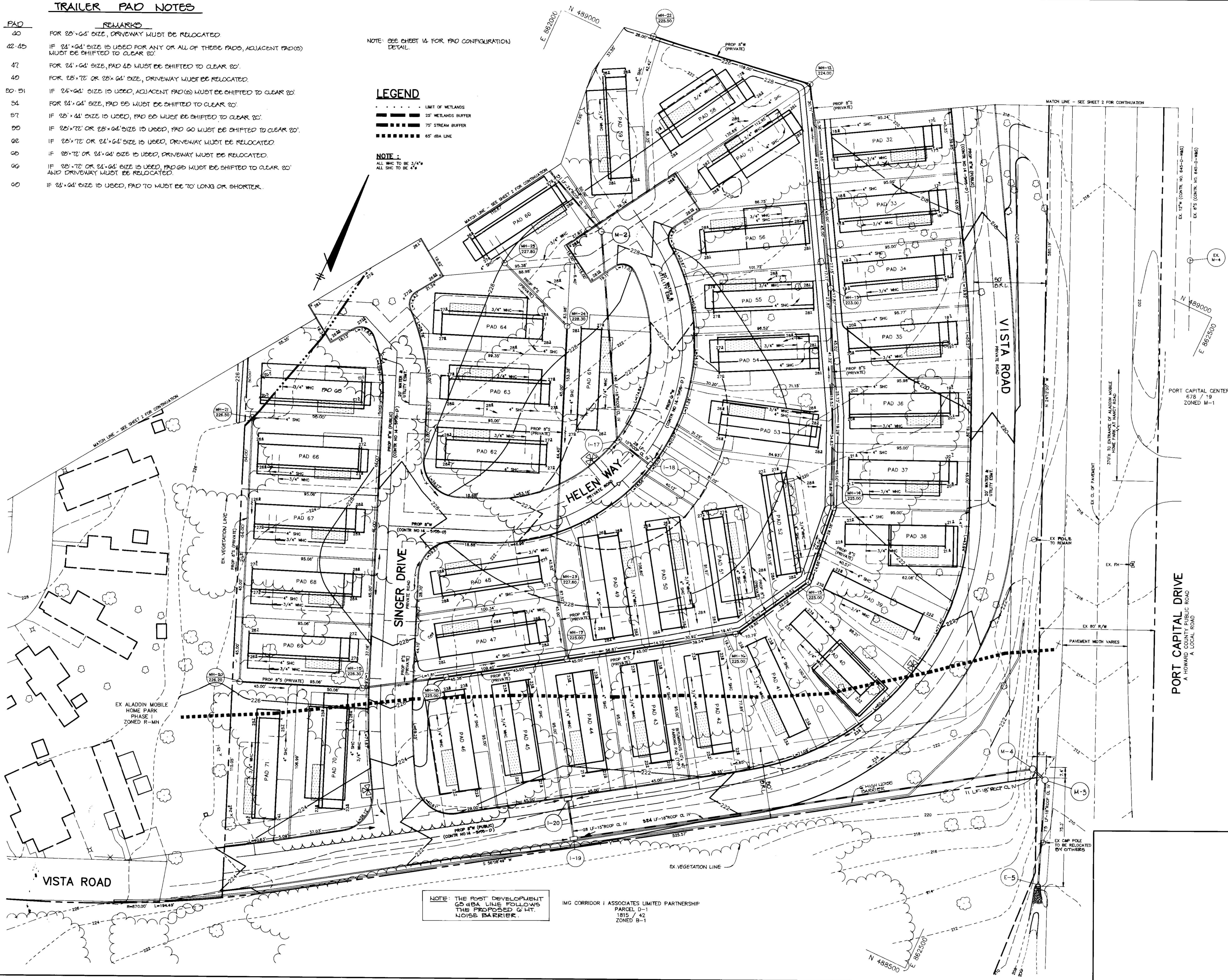
- | PAD | REMARKS |
|-------|--|
| 40 | FOR 28'x64' SIZE, DRIVEWAY MUST BE RELOCATED |
| 42-45 | IF 24'x64' SIZE IS USED FOR ANY OR ALL OF THESE PADS, ADJACENT PAD(S) MUST BE SHIFTED TO CLEAR 20' |
| 47 | FOR 24'x64' SIZE, PAD 48 MUST BE SHIFTED TO CLEAR 20' |
| 49 | FOR 28'x72' OR 28'x64' SIZE, DRIVEWAY MUST BE RELOCATED |
| 50-51 | IF 24'x64' SIZE IS USED, ADJACENT PAD(S) MUST BE SHIFTED TO CLEAR 20' |
| 54 | FOR 24'x64' SIZE, PAD 55 MUST BE SHIFTED TO CLEAR 20' |
| 57 | IF 28'x44' SIZE IS USED, PAD 58 MUST BE SHIFTED TO CLEAR 20' |
| 59 | IF 28'x72' OR 28'x64' SIZE IS USED, PAD 60 MUST BE SHIFTED TO CLEAR 20' |
| 62 | IF 28'x72' OR 24'x64' SIZE IS USED, DRIVEWAY MUST BE RELOCATED |
| 65 | IF 28'x72' OR 24'x64' SIZE IS USED, DRIVEWAY MUST BE RELOCATED |
| 66 | IF 28'x72' OR 24'x64' SIZE IS USED, PAD 66 MUST BE SHIFTED TO CLEAR 20' AND DRIVEWAY MUST BE RELOCATED |
| 69 | IF 24'x64' SIZE IS USED, PAD 70 MUST BE 70' LONG OR SHORTER |

NOTE: SEE SHEET 14 FOR PAD CONFIGURATION DETAIL.

LEGEND


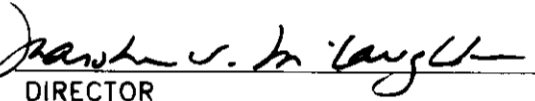

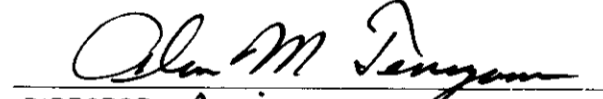
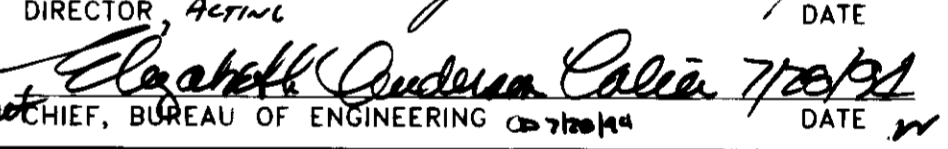
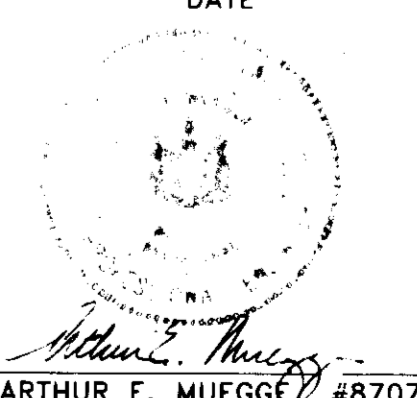
- LIMIT OF WETLANDS
- 25' WETLANDS BUFFER
- 75' STREAM BUFFER
- 65' DBA LINE

NOTE:
ALL MHC TO BE 3/4" SHC TO BE 4"



NOTE: THE POST DEVELOPMENT 65' DBA LINE FOLLOWS THE PROPOSED G.H.T. NOISE BARRIER.

IMG CORRIDOR I ASSOCIATES LIMITED PARTNERSHIP
PARCEL D-1
1915 / 42
ZONED B-1

4-10-99	3	ADDED 27'-00" PAD TO 50
AS BUILT CERTIFICATE		
DATE		
APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT.		
 COUNTY HEALTH OFFICER		7/5/94 DATE
APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.		
 DIRECTOR		8/17/94 DATE
 CHIEF, DIVISION OF LAND DEVELOPMENT AND RESEARCH		8/17/94 DATE
APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS.		
 DIRECTOR		7/2/94 DATE
 CHIEF, BUREAU OF ENGINEERING		7/2/94 DATE
2-6-99	2	ADDED 28'-00" PAD SIZE TO LOT 6, 28'-00" AND 10'-00" PAD TO LOT 10
7-0-99	1	ADDED 18'-00" PAD TO LOT 10, 28'-00" PAD TO LOT 10, 28'-00" PAD TO LOT 10
DATE NO. REVISION		
OWNER / DEVELOPER		
THE CARLYLE GROUP C/O RONALD H. SINGER 9073 NEMO STREET LOS ANGELES, CA 90069		
PROJECT		
ALADDIN MOBILE HOME PARK PHASE II		
AREA		
ZONED R-MH TAX MAP 43 PARCELS 12, 118 ELECTION DISTRICT 6 HOWARD COUNTY, MARYLAND		
TITLE		
SITE DEVELOPMENT PLAN		
RIEMER MUEGGE & ASSOCIATES, INC.		
A Land Planning, Engineering and Consulting Firm 8818 Centre Park Drive • Suite 200 • Columbia, Md 21045 410-997-8900 FAX: 410-997-9282		
7-8-94 DATE		CHECKED BY: J.P.O.
 ARTHUR E. MUEGGE #8707		DESIGNED BY: W.C.W.
		DRAWN BY: W.C.W.
		PROJECT NO: 77804
		DATE: JULY 8, 1994
		SCALE: 1"=30'
		DRAWING NO. 3 OF 21



TRAILER PAD NOTES

PAD
10 - 22

REMARKS
IF 28'-60" SIZE IS USED FOR ANY OR ALL OF THESE PADS, ADJACENT PAD (S) MUST BE SHIFTED TO CLEAR 20'.

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

James M. Boyd 8/17/94
COUNTY HEALTH OFFICER DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.

Barbara S. Mangle 8/24/94
DIRECTOR DATE

Jim Strumman 8/17/94
CHIEF, DIVISION OF LAND DEVELOPMENT AND RESEARCH DATE

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

Alan M. Singer 7/20/94
DIRECTOR, Acting DATE

Elizabeth Calderon-Celia 7/20/94
CHIEF, BUREAU OF ENGINEERING DATE

12-28-93	2	ADDED 28' x 52' PAD TO LOT 14
7-9-93	1	ADDED 10' x 10', 10' x 20', 20' x 40', 20' x 60' & 20' x 70' PAD SIZES TO APPROPRIATE LOTS
DATE	NO.	REVISION

OWNER / DEVELOPER
THE CARLYLE GROUP
C/O RONALD H. SINGER
9073 NEMO STREET
LOS ANGELES, CA 90069

PROJECT
ALADDIN MOBILE HOME PARK
PHASE II

AREA ZONED R-MH TAX MAP 43 PARCELS 12, 118
ELECTION DISTRICT 6
HOWARD COUNTY, MARYLAND

TITLE
SITE DEVELOPMENT PLAN

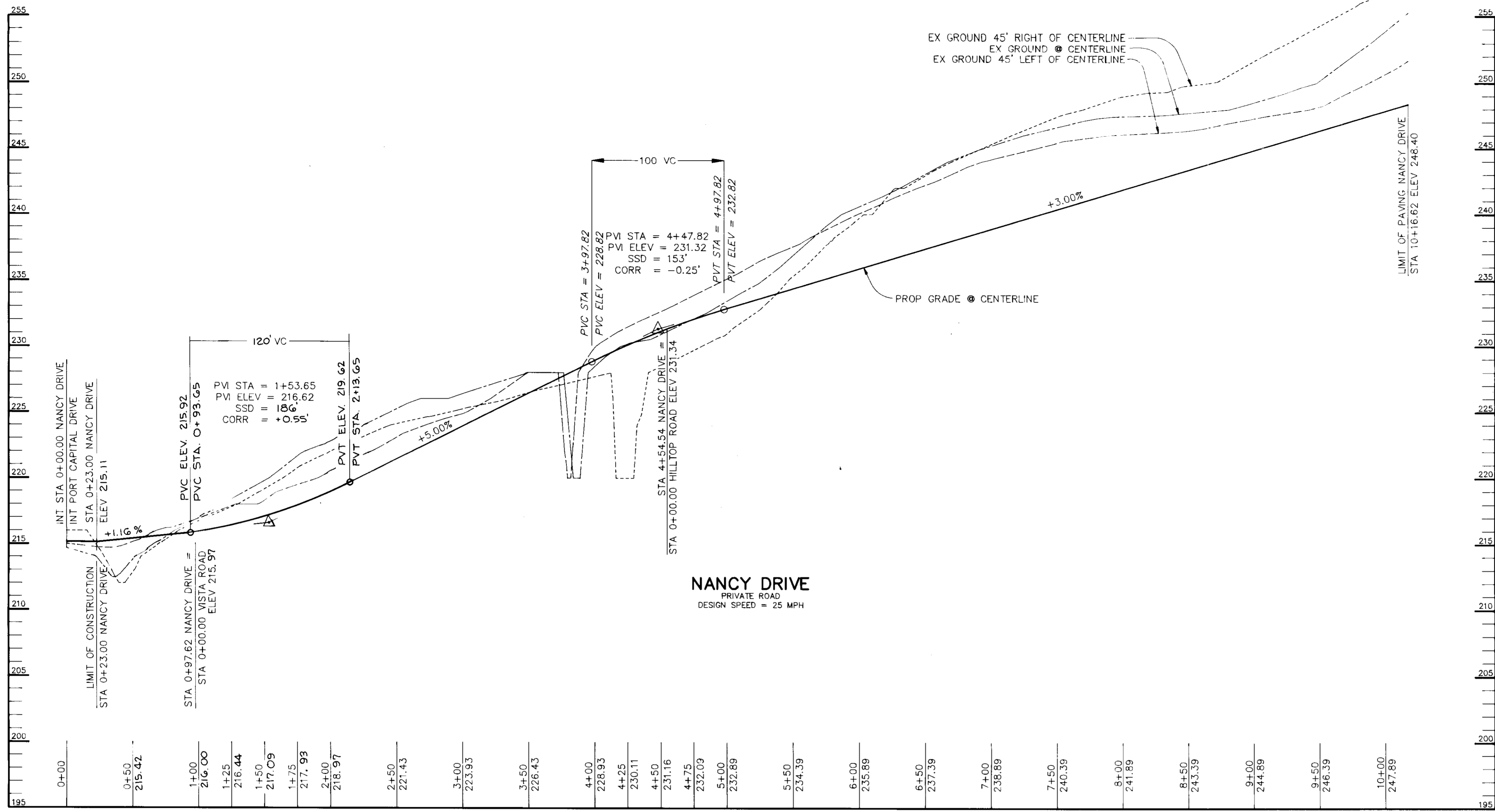
RIEMER MUEGGE & ASSOCIATES, INC.
A Land Planning, Engineering and Consulting Firm
8818 Centre Park Drive Suite 200 Columbia, Md 21045
410-997-8900 FAX: 410-997-9282

7-6-94 DATE	CHECKED BY: J.P.O.
	DESIGNED BY: W.C.W.
<i>Arthur E. Muegge</i>	DRAWN BY: W.C.W.
ARTHUR E. MUEGGE #8707	PROJECT NO: 77804
	DATE: JULY 6, 1994
	SCALE: 1"=30'
	DRAWING NO. 4 OF 21

NOTE: SEE SHEET 14 FOR PAD CONFIGURATION DETAIL.

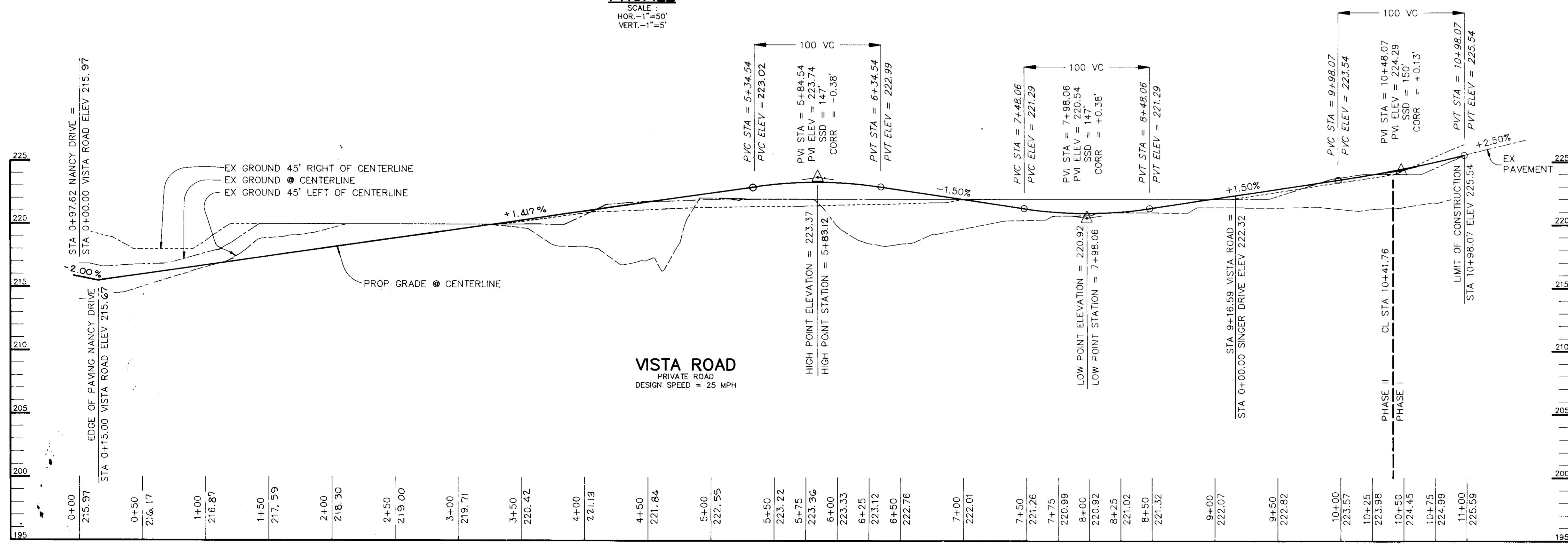
LEGEND
- - - - - LIMIT OF WETLANDS
- - - - - 25' WETLANDS BUFFER
- - - - - 75' STREAM BUFFER

NOTE:
ALL WMC TO BE 3/4"
ALL SHC TO BE 3/4"



NANCY DRIVE
PRIVATE ROAD
DESIGN SPEED = 25 MPH

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



VISTA ROAD
PRIVATE ROAD
DESIGN SPEED = 25 MPH

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

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

Joyce M. Howard COUNTY HEALTH OFFICER DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.

David S. Dangle DIRECTOR DATE 8/12/94

Anna Swannery CHIEF, DIVISION OF LAND DEVELOPMENT AND RESEARCH DATE 8/17/94

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

Oliver M. Sengon DIRECTOR, Acting DATE 7/26/94

Elizabeth Anderson CHIEF, BUREAU OF ENGINEERING DATE 7/26/94

DATE	NO.	REVISION

OWNER / DEVELOPER

THE CARLYLE GROUP
C/O RONALD H. SINGER
9073 NEMO STREET
LOS ANGELES, CA 90069

PROJECT
ALADDIN MOBILE HOME PARK
PHASE II

AREA ZONED R-MH TAX MAP 43 PARCELS 12, 118
ELECTION DISTRICT 6
HOWARD COUNTY, MARYLAND

TITLE
ROAD PROFILES

RIEMER MUEGGE & ASSOCIATES, INC.
A Land Planning, Engineering and Consulting Firm
8818 Centre Park Drive • Suite 200 • Columbia, Md 21045
410-997-8900 FAX: 410-997-9282

7-8-94 DATE

CHECKED BY: J.P.O.

DESIGNED BY: W.C.W.

DRAWN BY: W.C.W.

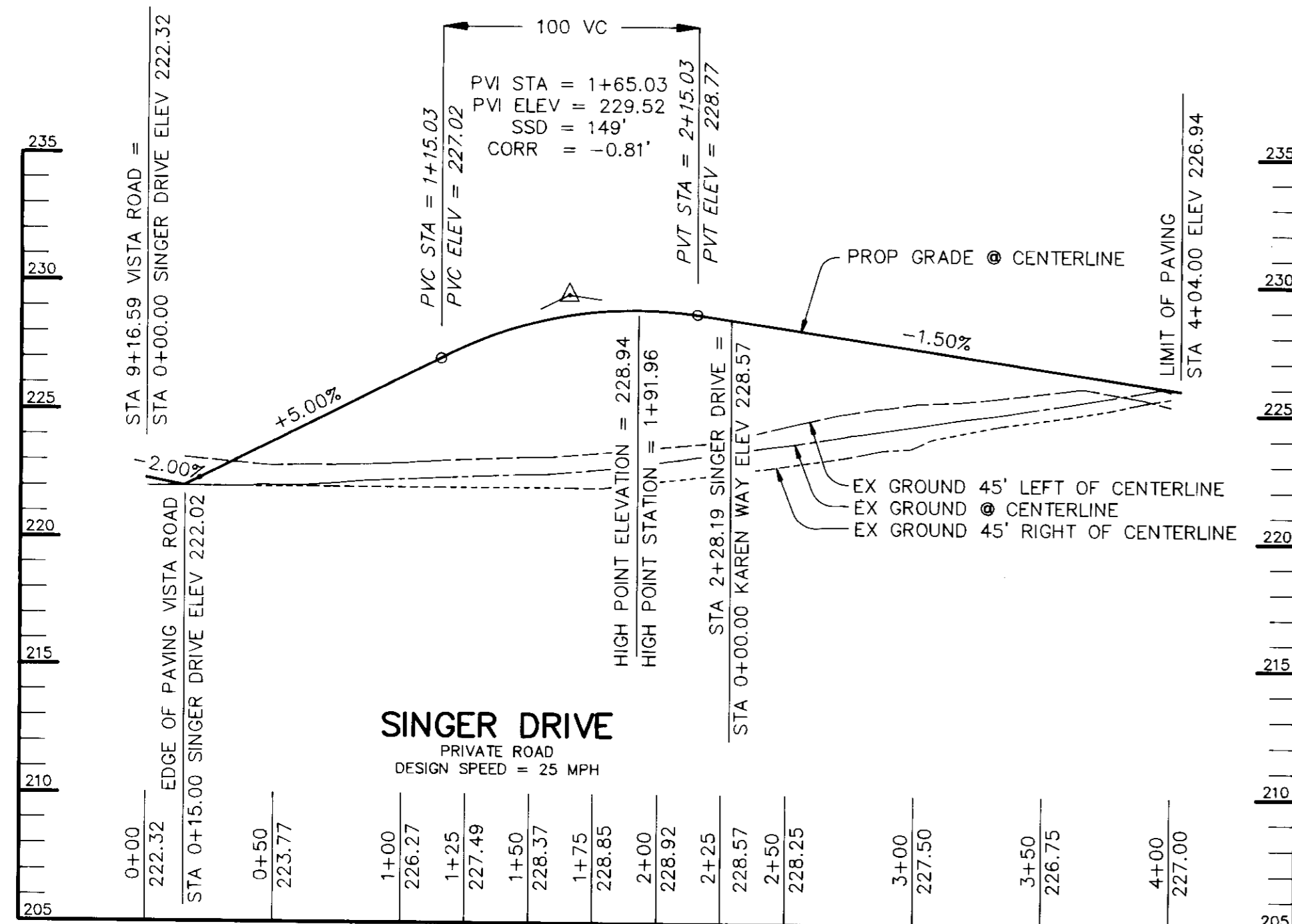
PROJECT NO: 77804

DATE: JULY 8, 1994

SCALE: AS SHOWN

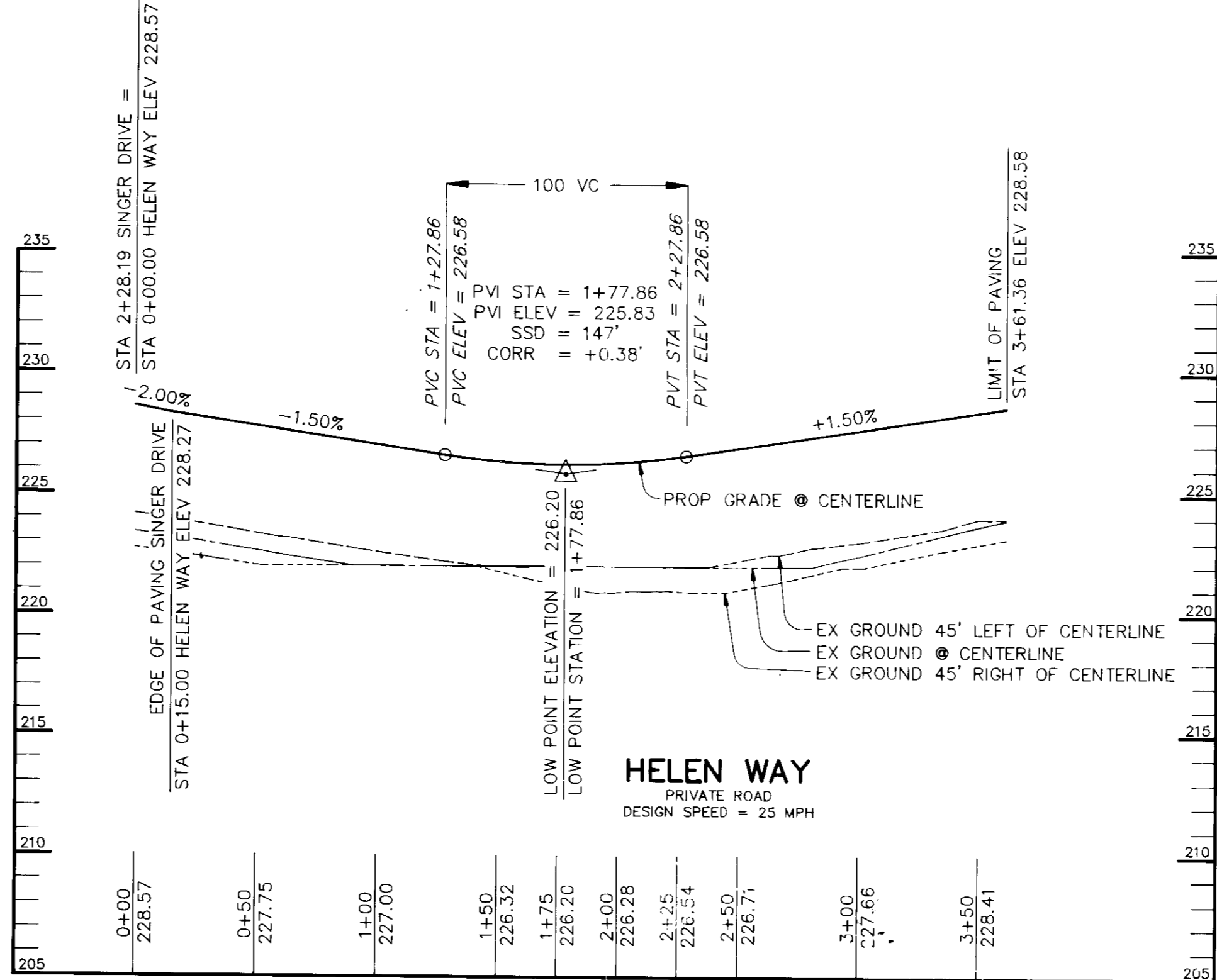
DRAWING NO. 5 OF 21

Arthur E. Muegge PROJECT



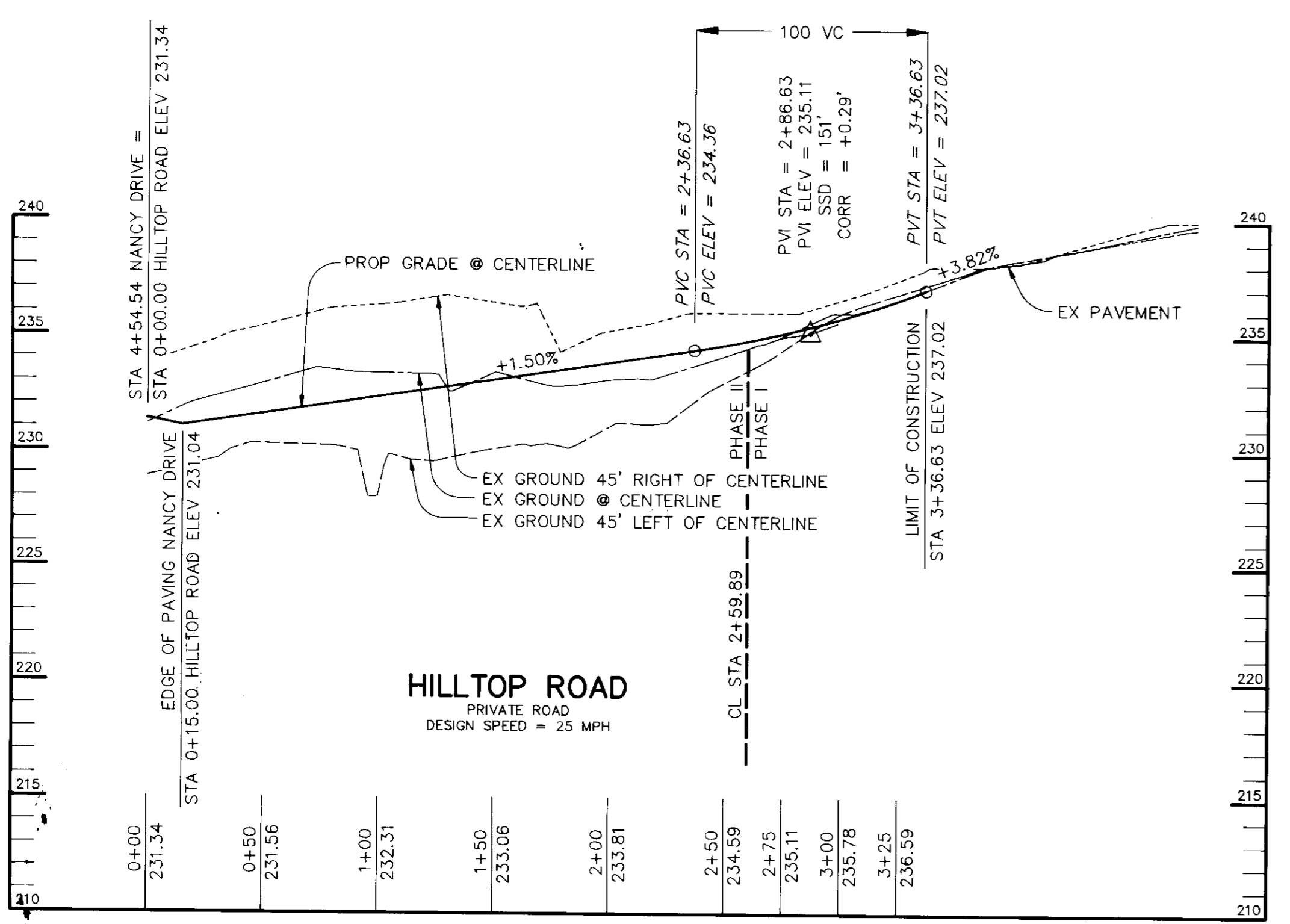
SINGER DRIVE
PRIVATE ROAD
DESIGN SPEED = 25 MPH

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



HELEN WAY
PRIVATE ROAD
DESIGN SPEED = 25 MPH

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



HILLTOP ROAD
PRIVATE ROAD
DESIGN SPEED = 25 MPH

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

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

James M. Boyd COUNTY HEALTH OFFICER DATE

APPROVED : HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.

Frank J. Dwyer DIRECTOR DATE 8/12/94

Uma Sumnony CHIEF, DIVISION OF LAND DEVELOPMENT AND RESEARCH DATE 8/17/94

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

Alan M. Dwyer DIRECTOR, AECOM DATE 7/28/94

Elizabeth Anderson-Calia CHIEF, BUREAU OF ENGINEERING DATE 7/28/94

DATE	NO.	REVISION

OWNER / DEVELOPER

THE CARLYLE GROUP
C/O RONALD H. SINGER
9073 NEMO STREET
LOS ANGELES, CA 90069

PROJECT
ALADDIN MOBILE HOME PARK
PHASE II

AREA ZONED R-MH TAX MAP 43 PARCELS 12, 118
ELECTION DISTRICT 6
HOWARD COUNTY, MARYLAND

TITLE
ROAD PROFILES

RIEMER MUEGGE & ASSOCIATES, INC.
A Land Planning, Engineering and Consulting Firm
8818 Centre Park Drive • Suite 200 • Columbia, Md 21045
410-997-8900 FAX : 410-997-9282

7.8.94 DATE

CHECKED BY : J.P.O.

DESIGNED BY : W.C.W.

DRAWN BY : W.C.W.

PROJECT NO : 77804

DATE : JULY 8, 1994

SCALE : AS SHOWN

DRAWING NO. 6 OF 21

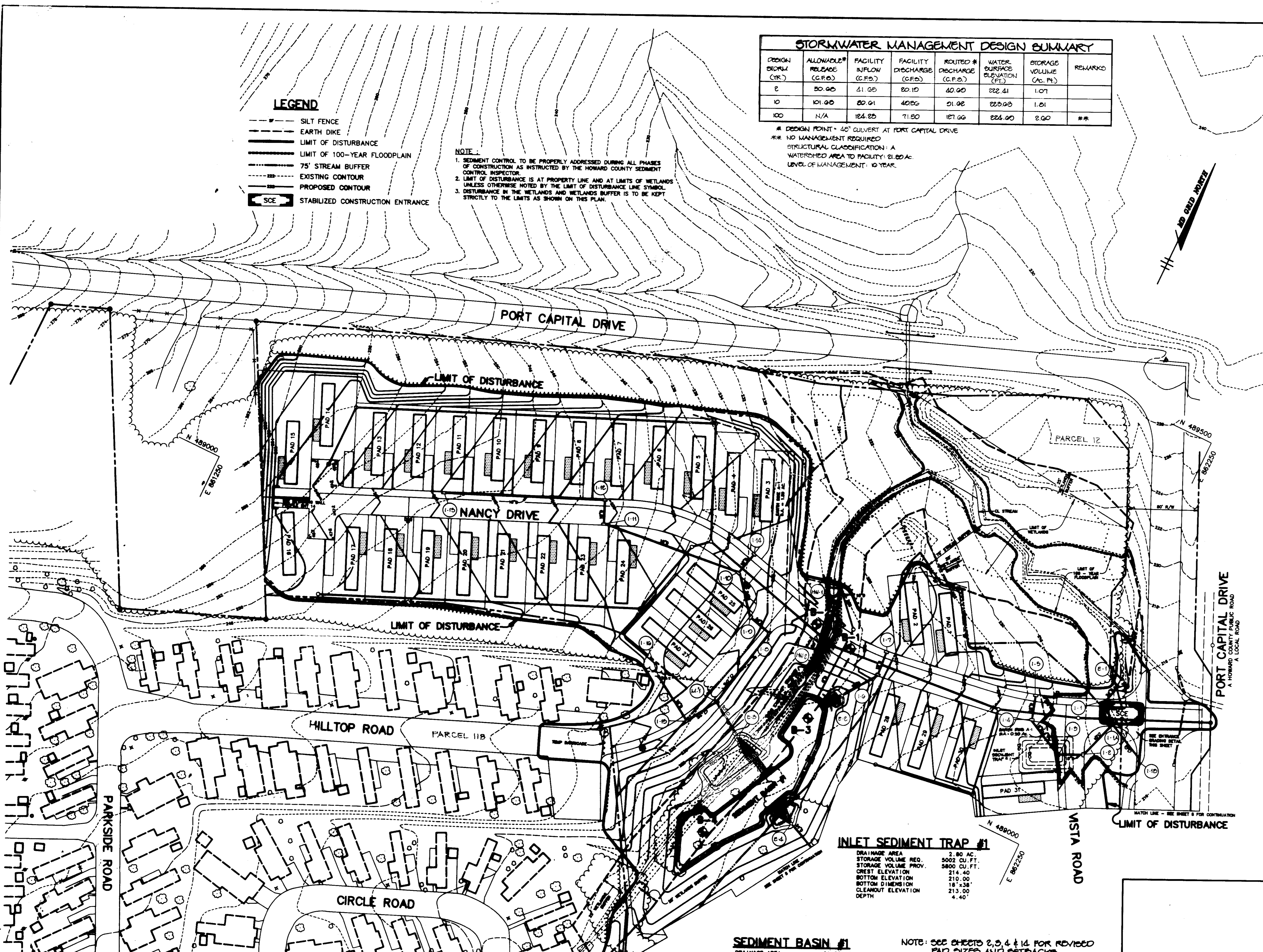
ARTHUR E. MUEGGE 18707

STORMWATER MANAGEMENT DESIGN SUMMARY							
DESIGN STORM (IN.)	ALLOWABLE RELEASE (C.F.S.)	FACILITY INFLOW (C.F.S.)	FACILITY DISCHARGE (C.F.S.)	ROUTED # DISCHARGE (C.F.S.)	WATER SURFACE ELEVATION (FEET)	STORAGE VOLUME (AC. FT.)	REMARKS
2	50.00	41.00	20.10	40.00	222.41	1.07	
10	101.00	80.01	40.50	51.00	223.00	1.01	
100	N/A	124.25	71.50	127.00	224.00	2.00	**

* DESIGN POINT = 40" CULVERT AT PORT CAPITAL DRIVE
 ** NO MANAGEMENT REQUIRED
 STRUCTURAL CLASSIFICATION: A
 WATERSHED AREA TO FACILITY: 21.80 AC.
 LEVEL OF MANAGEMENT: 10 YEAR

- LEGEND**
- SILT FENCE
 - EARTH DIKE
 - LIMIT OF DISTURBANCE
 - LIMIT OF 100-YEAR FLOODPLAIN
 - 75' STREAM BUFFER
 - EXISTING CONTOUR
 - PROPOSED CONTOUR
 - SCE
 - STABILIZED CONSTRUCTION ENTRANCE

NOTE:
 1. SEDIMENT CONTROL TO BE PROPERLY ADDRESSED DURING ALL PHASES OF CONSTRUCTION AS INSTRUCTED BY THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR.
 2. LIMIT OF DISTURBANCE IS AT PROPERTY LINE AND AT LIMITS OF WETLANDS UNLESS OTHERWISE NOTED BY THE LIMIT OF DISTURBANCE LINE SYMBOL.
 3. DISTURBANCE IN THE WETLANDS AND WETLANDS BUFFER IS TO BE KEPT STRICTLY TO THE LIMITS AS SHOWN ON THIS PLAN.



INLET SEDIMENT TRAP #1
 DRAINAGE AREA 2.80 AC.
 STORAGE VOLUME REQ. 5002 CU. FT.
 STORAGE VOLUME PROV. 5800 CU. FT.
 CREST ELEVATION 214.40
 BOTTOM ELEVATION 210.00
 BOTTOM DIMENSION 18' x 38'
 CLEANOUT ELEVATION 213.00
 DEPTH 4.40'

SEDIMENT BASIN #1
 DRAINAGE AREA 21.88 AC.
 STORAGE VOLUME REQ. 39,384 CU. FT.
 STORAGE VOLUME PROV. 39,384 CU. FT.
 CREST ELEVATION 222.20
 BOTTOM ELEVATION 218.00
 CLEANOUT ELEVATION 221.10
 DEPTH 3.20'

NOTE: SEE SHEETS 2, 3, 4 & 14 FOR REVISED PAD SIZES AND SETBACKS.

AS BUILT CERTIFICATE

DATE _____

BY THE DEVELOPER:

I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN, AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTIONS BY THE HOWARD SOIL CONSERVATION DISTRICT.

Ronald H. Singer 7/5/94
 DEVELOPER FOR ALADDIN VILLAGE MOBILE HOME PARK DATE

BY THE ENGINEER:

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.

Arthur E. Muegge 7/5/94
 ENGINEER DATE

THESE PLANS HAVE BEEN REVIEWED FOR THE HOWARD SOIL CONSERVATION DISTRICT AND MEET THE TECHNICAL REQUIREMENTS FOR SOIL EROSION AND SEDIMENT CONTROL.

Richard E. Gaylor 8/12/94
 U.S. SOIL CONSERVATION SERVICE DATE

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

John L. Rabenstein 8/12/94
 HOWARD SOIL CONSERVATION DISTRICT DATE

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

Joyce M. Boyd 8/5/94
 COUNTY HEALTH OFFICER DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.

Barbara S. Taylor 8/17/94
 DIRECTOR DATE

Uma Swannery 8/17/94
 CHIEF, DIVISION OF LAND DEVELOPMENT AND RESEARCH DATE

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

Alan M. Sanger 7/20/94
 DIRECTOR, AERIAL DATE

Elizabeth Anderson 7/20/94
 CHIEF, BUREAU OF ENGINEERING DATE

DATE	NO.	REVISION

OWNER / DEVELOPER

THE CARLYLE GROUP
 C/O RONALD H. SINGER
 9073 NEMO STREET
 LOS ANGELES, CA 90069

PROJECT

ALADDIN MOBILE HOME PARK
 PHASE II

AREA ZONED R-MH TAX MAP 43 PARCELS 12, 118
 ELECTION DISTRICT 6
 HOWARD COUNTY, MARYLAND

TITLE

GRADING AND SEDIMENT CONTROL PLAN

RIEMER MUEGGE & ASSOCIATES, INC.
 A Land Planning, Engineering and Consulting Firm
 8818 Centre Park Drive • Suite 200 • Columbia, Md 21045
 410-997-8900 FAX: 410-997-9282

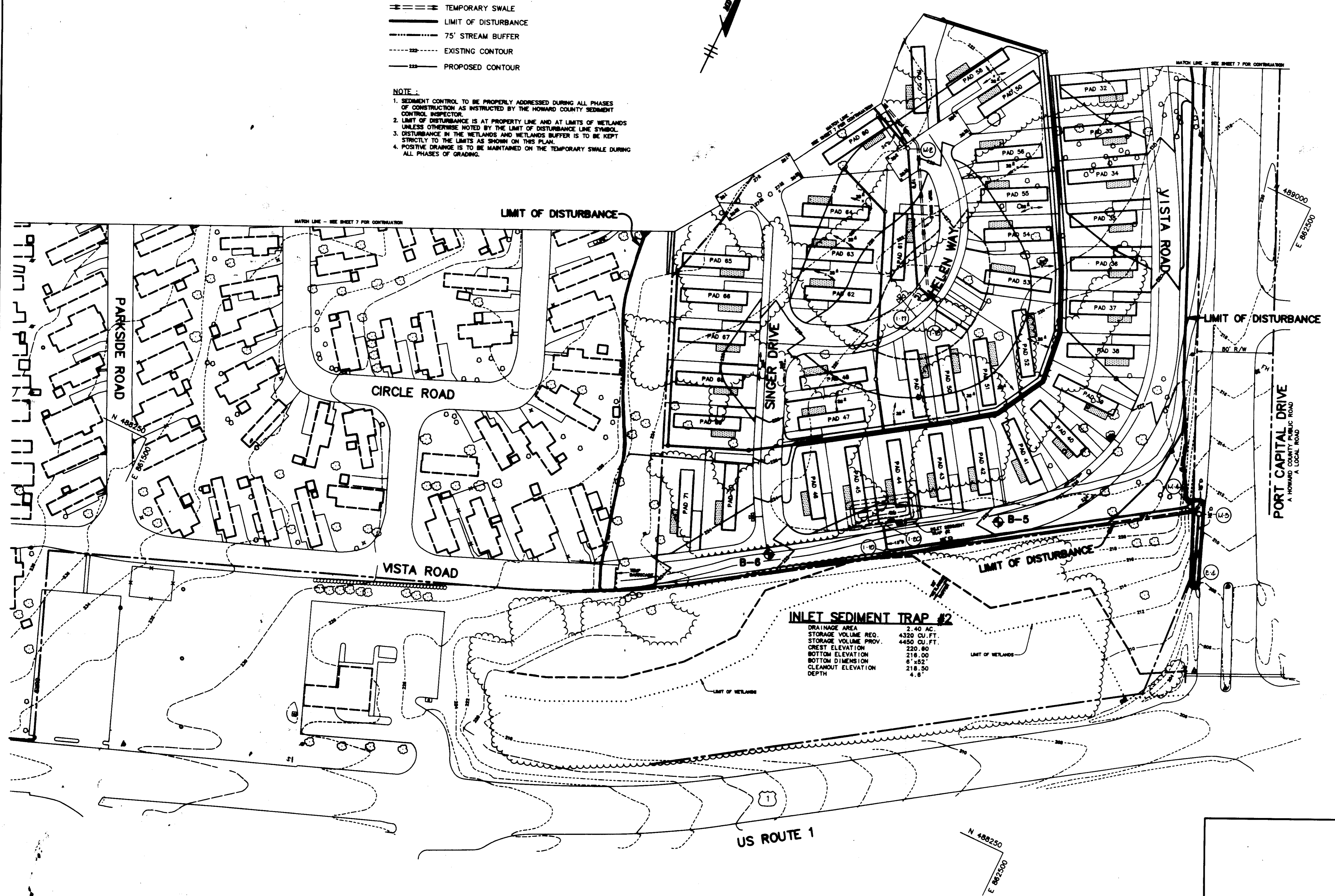
7/8/94
 DATE

CHECKED BY: J.P.O.
 DESIGNED BY: W.C.W.
 DRAWN BY: W.C.W.
 PROJECT NO: 77804
 DATE: JULY 6, 1994
 SCALE: 1"=50'
 DRAWING NO. 7 OF 21

ARTHUR E. MUEGGE #8707

- LEGEND**
- SILT FENCE
 - TEMPORARY SWALE
 - LIMIT OF DISTURBANCE
 - 75' STREAM BUFFER
 - EXISTING CONTOUR
 - PROPOSED CONTOUR

- NOTE:**
1. SEDIMENT CONTROL TO BE PROPERLY ADDRESSED DURING ALL PHASES OF CONSTRUCTION AS INSTRUCTED BY THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR.
 2. LIMIT OF DISTURBANCE IS AT PROPERTY LINE AND AT LIMITS OF WETLANDS UNLESS OTHERWISE NOTED BY THE LIMIT OF DISTURBANCE LINE SYMBOL.
 3. DISTURBANCE IN THE WETLANDS AND WETLANDS BUFFER IS TO BE KEPT STRICTLY TO THE LIMITS AS SHOWN ON THIS PLAN.
 4. POSITIVE DRAINAGE IS TO BE MAINTAINED ON THE TEMPORARY SWALE DURING ALL PHASES OF GRADING.



INLET SEDIMENT TRAP #2

DRAINAGE AREA	2.40 AC.
STORAGE VOLUME REQ.	4320 CU. FT.
STORAGE VOLUME PROV.	4450 CU. FT.
CREST ELEVATION	220.80
BOTTOM ELEVATION	218.00
BOTTOM DIMENSION	6'-4.52'
CLEANOUT ELEVATION	218.50
DEPTH	4.8'

NOTE: SEE SHEETS 2, 3, 4 & 14 FOR REVISED PAD SIZES AND SETBACKS.

ARTHUR E. MUEGGE #8707 DATE

BY THE DEVELOPER :
 I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN, AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTIONS BY THE HOWARD SOIL CONSERVATION DISTRICT.

Ronald H. Singer 7/5/94
 DEVELOPER FOR: ALADDIN VILLAGE MOBILE HOME PARK

BY THE ENGINEER :
 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.

Arthur E. Muegge 7/3/94
 ENGINEER DATE

THESE PLANS HAVE BEEN REVIEWED FOR THE HOWARD SOIL CONSERVATION DISTRICT AND MEET THE TECHNICAL REQUIREMENTS FOR SOIL EROSION AND SEDIMENT CONTROL.
Patricia L. Lohr 8/1/94
 U.S. SOIL CONSERVATION SERVICE DATE

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.
John R. Robertson 8/12/94
 HOWARD SOIL CONSERVATION DISTRICT DATE

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

Joyce M. Bond per *Jim* 8/5/94
 COUNTY HEALTH OFFICER DATE

APPROVED : HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.

Mark S. Taylor 8/12/94
 DIRECTOR DATE

Aina Lammami 8/17/94
 CHIEF, DIVISION OF LAND DEVELOPMENT AND RESEARCH DATE

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

Arthur E. Muegge 7/2/94
 DIRECTOR, ASST. DATE
Robert L. Anderson 7/20/94
 CHIEF, BUREAU OF ENGINEERING DATE

DATE	NO.	REVISION

OWNER / DEVELOPER
 THE CARLYLE GROUP
 C/O RONALD H. SINGER
 9073 NEMO STREET
 LOS ANGELES, CA 90069

PROJECT
ALADDIN MOBILE HOME PARK
 PHASE II

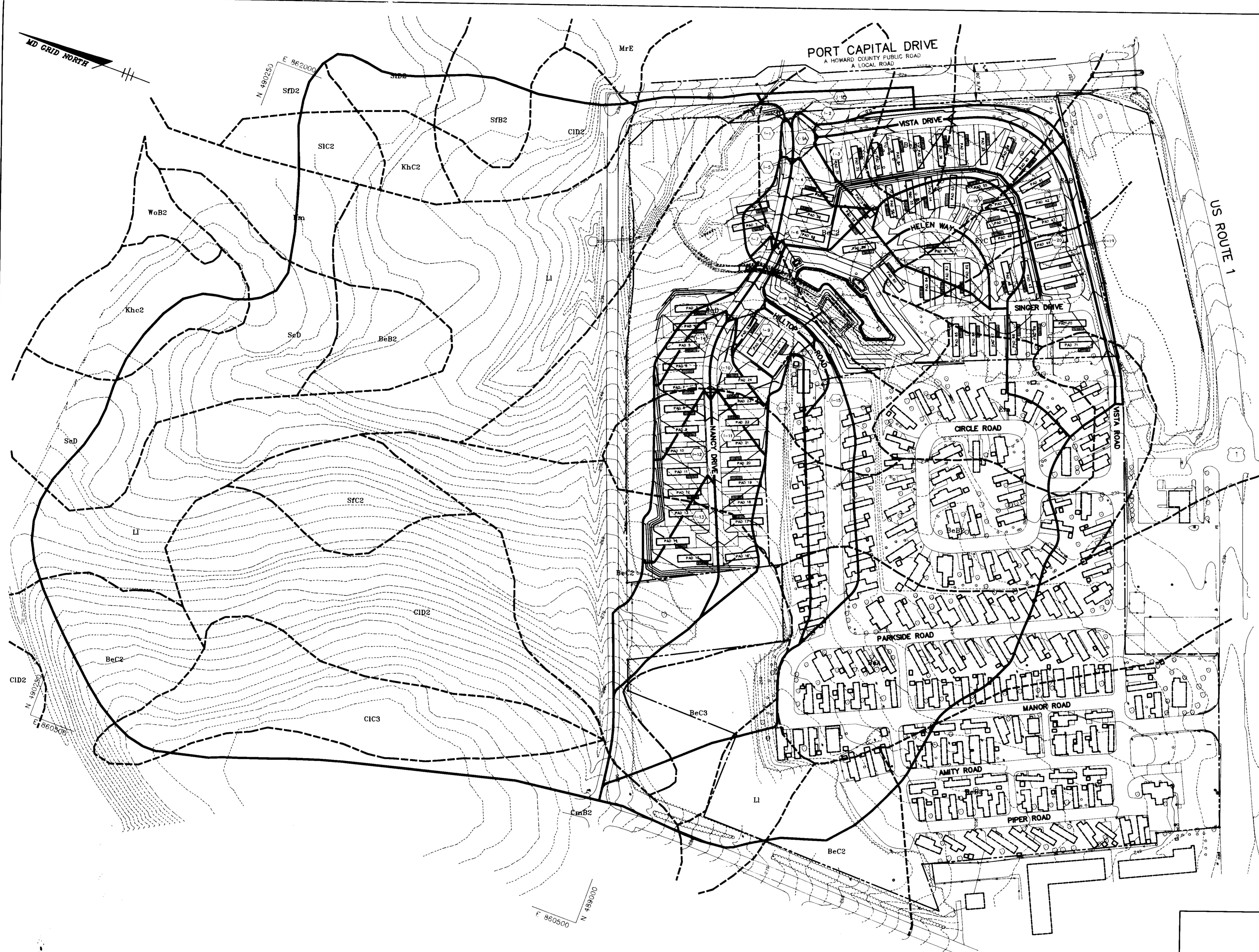
AREA ZONED R-MH TAX MAP 43 PARCELS 12, 118
 ELECTION DISTRICT 6
 HOWARD COUNTY, MARYLAND

TITLE
GRADING AND SEDIMENT CONTROL PLAN

RIEMER MUEGGE & ASSOCIATES, INC.
 A Land Planning, Engineering and Consulting Firm
 8818 Centre Park Drive • Suite 200 • Columbia, Md 21045
 410-997-8900 FAX : 410-997-9282

7/3/94
 DATE
 CHECKED BY : J.P.O.
 DESIGNED BY : W.C.W.
 DRAWN BY : W.C.W.
 PROJECT NO : 77804
 DATE : JULY 3, 1994
 SCALE : 1"=50'
 DRAWING NO. 8 OF 21





DRAINAGE AREA CHART				
INLET NO	AREA (ac)	W. VALUE	% IMP.	ZONING
I-1	0.095	0.620	45%	R-MH
I-2	0.378	0.547	46%	R-MH
I-3	1.418	0.679	74%	R-MH
I-4	0.457	0.618	56%	R-MH
I-5	0.243	0.658	62%	R-MH
I-6	0.155	0.755	74%	R-MH
I-7	0.255	0.694	66%	R-MH
I-8	0.059	0.712	70%	R-MH
I-9	0.545	0.639	59%	R-MH
I-10	0.342	0.623	57%	R-MH
I-11	0.790	0.641	59%	R-MH
I-12	0.624	0.624	56%	R-MH
I-13	1.120	0.603	54%	R-MH
I-14	0.499	0.617	56%	R-MH
I-15	1.150	0.693	66%	R-MH
I-16	3.431	0.572	50%	R-MH
I-17	0.485	0.682	65%	R-MH
I-18	0.950	0.638	59%	R-MH
I-19	0.300	0.693	65%	R-MH
I-20	2.107	0.730	58%	R-MH
I-1A	0.221	0.490	45%	R-LH
I-1B	0.402	0.590	46%	R-LH

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

Joyce M. Boyd per *John* 8/5/94
COUNTY HEALTH OFFICER DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.

David J. M. Wyle 8/12/94
DIRECTOR DATE

Uma Srinivasa 8/17/94
CHIEF, DIVISION OF LAND DEVELOPMENT AND RESEARCH DATE

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

Alan M. Longmire 7/29/94
DIRECTOR, ASST. DATE

Elizabeth Anderson Calia 7/28/94
CHIEF, BUREAU OF ENGINEERING DATE

DATE NO. REVISION

OWNER / DEVELOPER

THE CARLYLE GROUP
C/O RONALD H. SINGER
9073 NEMO STREET
LOS ANGELES, CA 90045

PROJECT
ALADDIN MOBILE HOME PARK
PHASE II

AREA ZONED R-MH TAX MAP 47 PARCELS 12, 13
ELECTION DISTRICT F
HOWARD COUNTY, MARYLAND

TITLE
DRAINAGE AREA
AND SOILS MAP

RIEMER MUEGGE & ASSOCIATES, INC.
A Land Planning, Engineering and Consulting Firm
8818 Centre Park Drive • Suite 200 • Columbia, Md 21045
410-997-8900 FAX: 410-997-9282

7.8.94
DATE

CHECKED BY: J.P.O.
DESIGNED BY: W.C.W.
DRAWN BY: W.C.W.
PROJECT NO: 77804
DATE: JULY 8, 1994
SCALE: 1"=100'
DRAWING NO. 9 OF 21

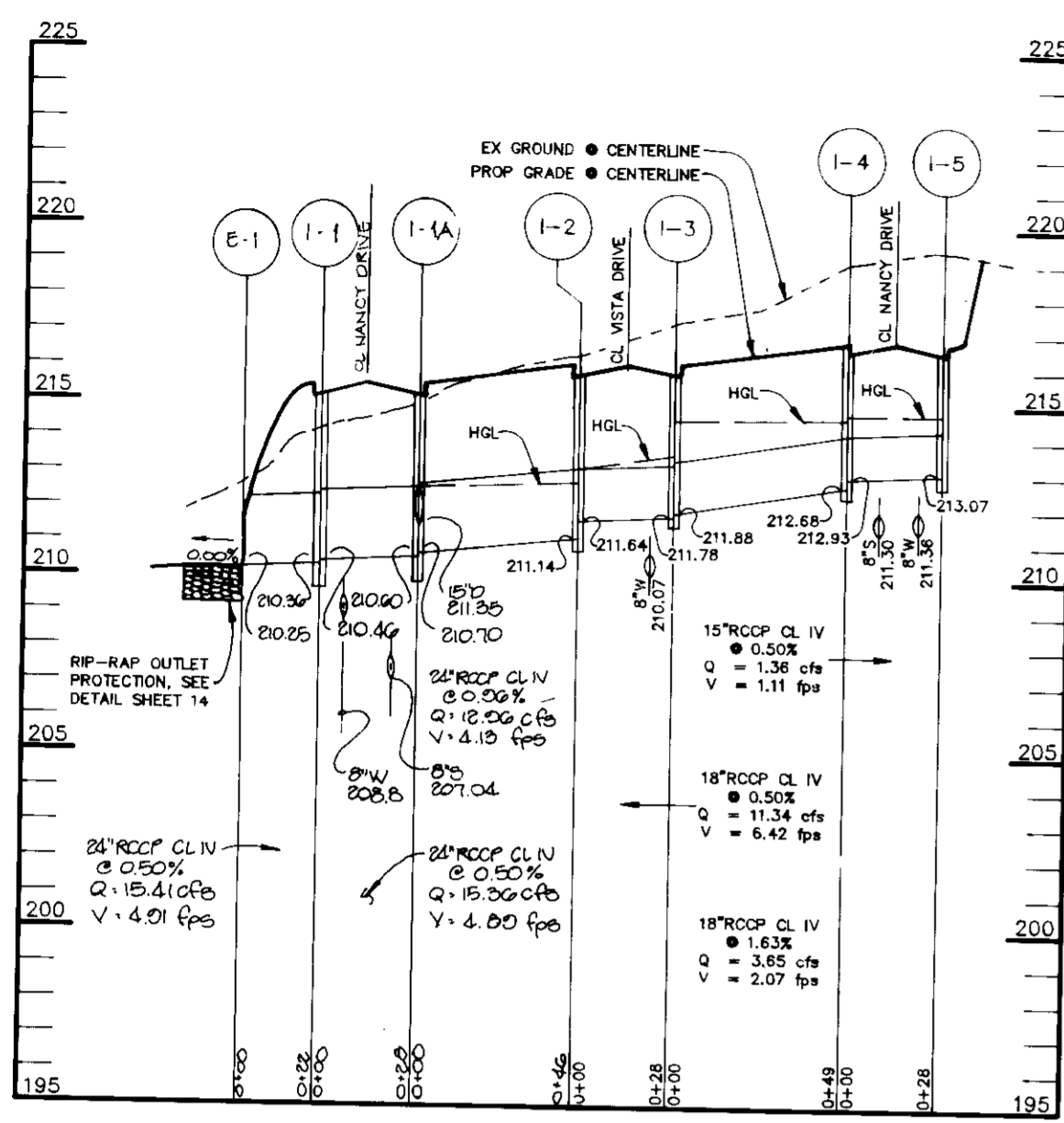
ARTHUR E. MUEGGE 18707

LEGEND

— DRAINAGE AREA DELINEATION

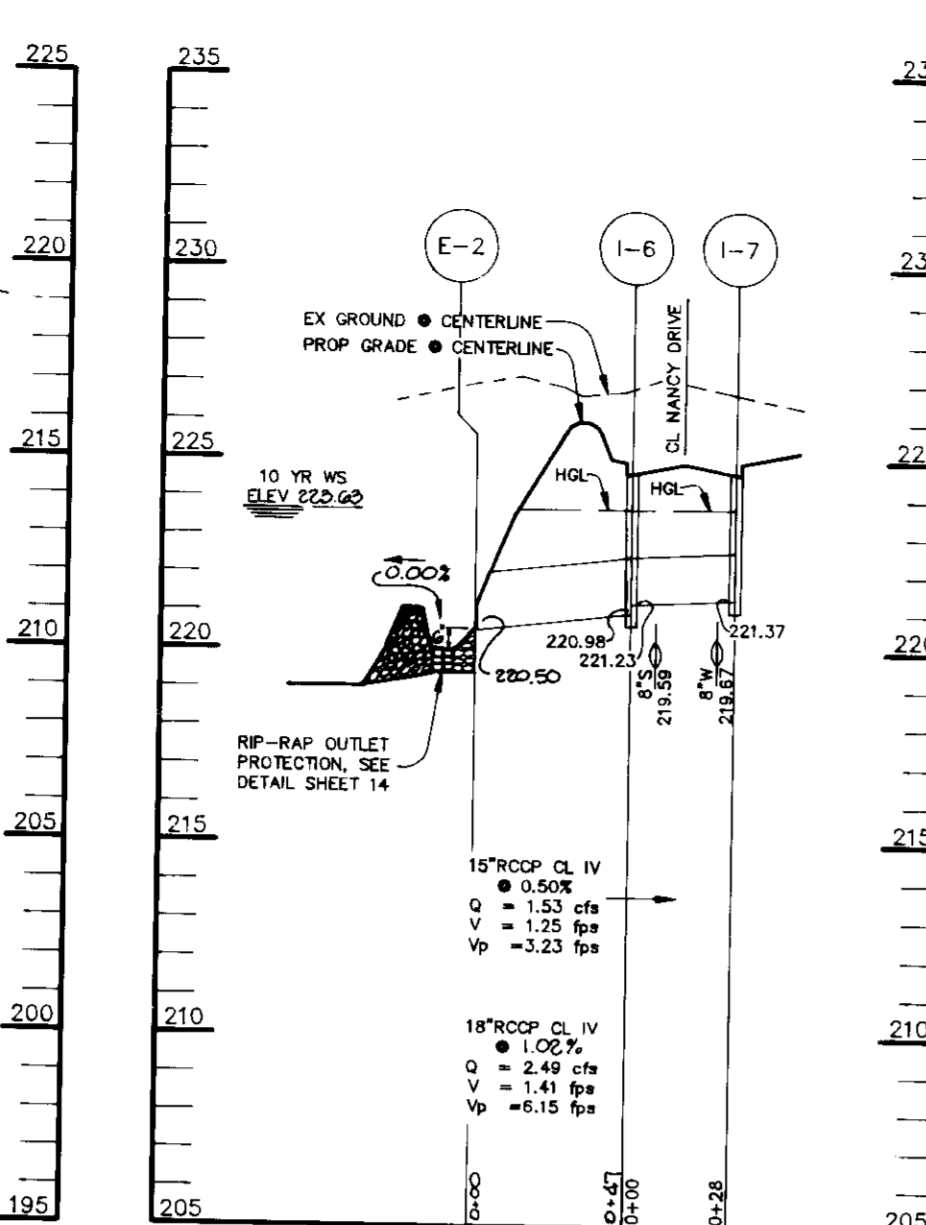
- - - SOIL TYPE DELINEATION

NOTE: SEE SHEETS 2, 3, 4 & 14 FOR REVISED PAD SIZES AND SETBACKS.



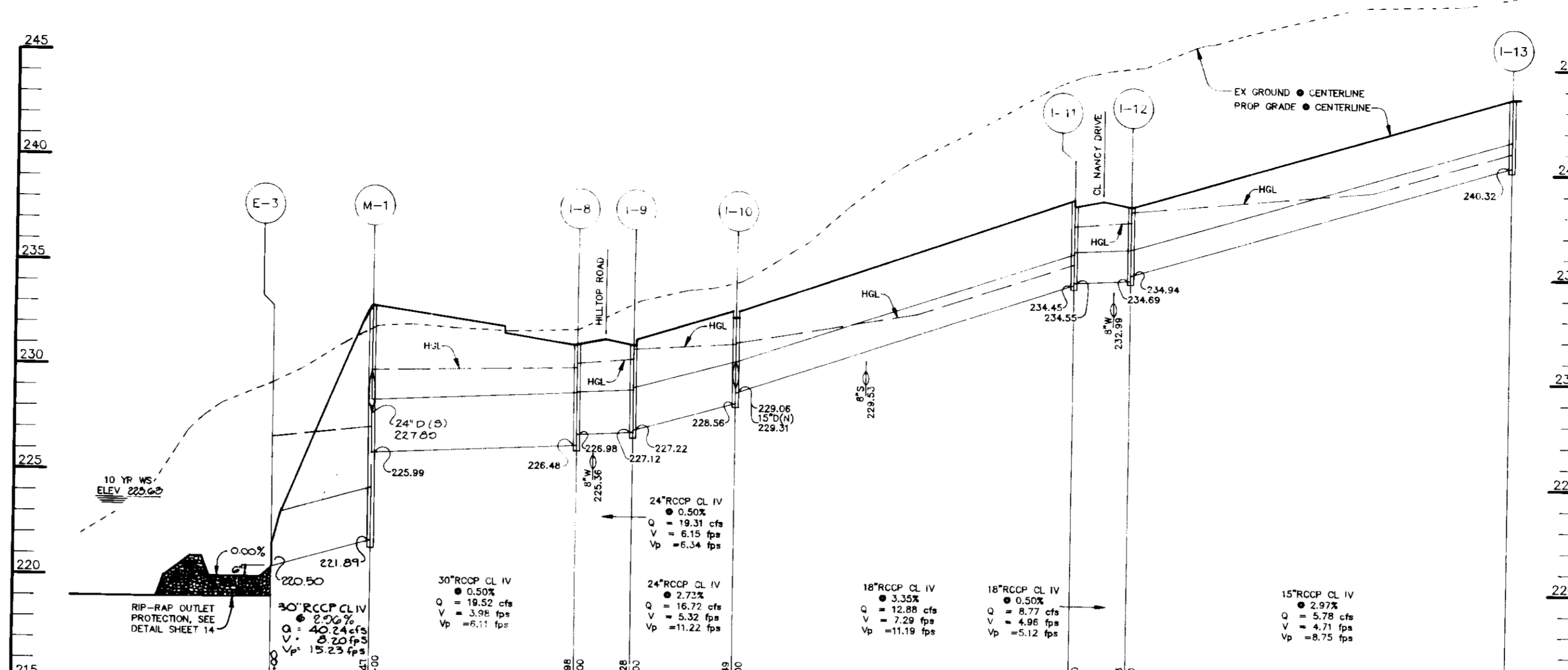
STORM DRAIN PROFILE

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



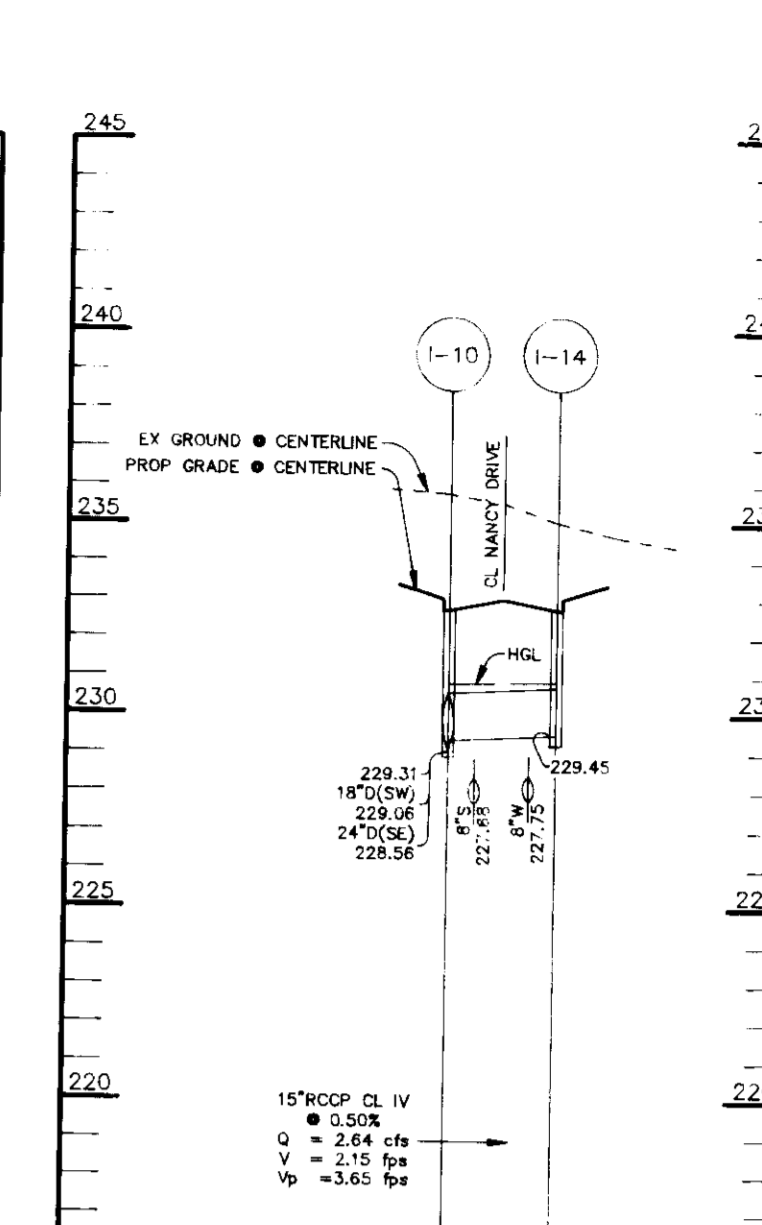
STORM DRAIN PROFILE

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



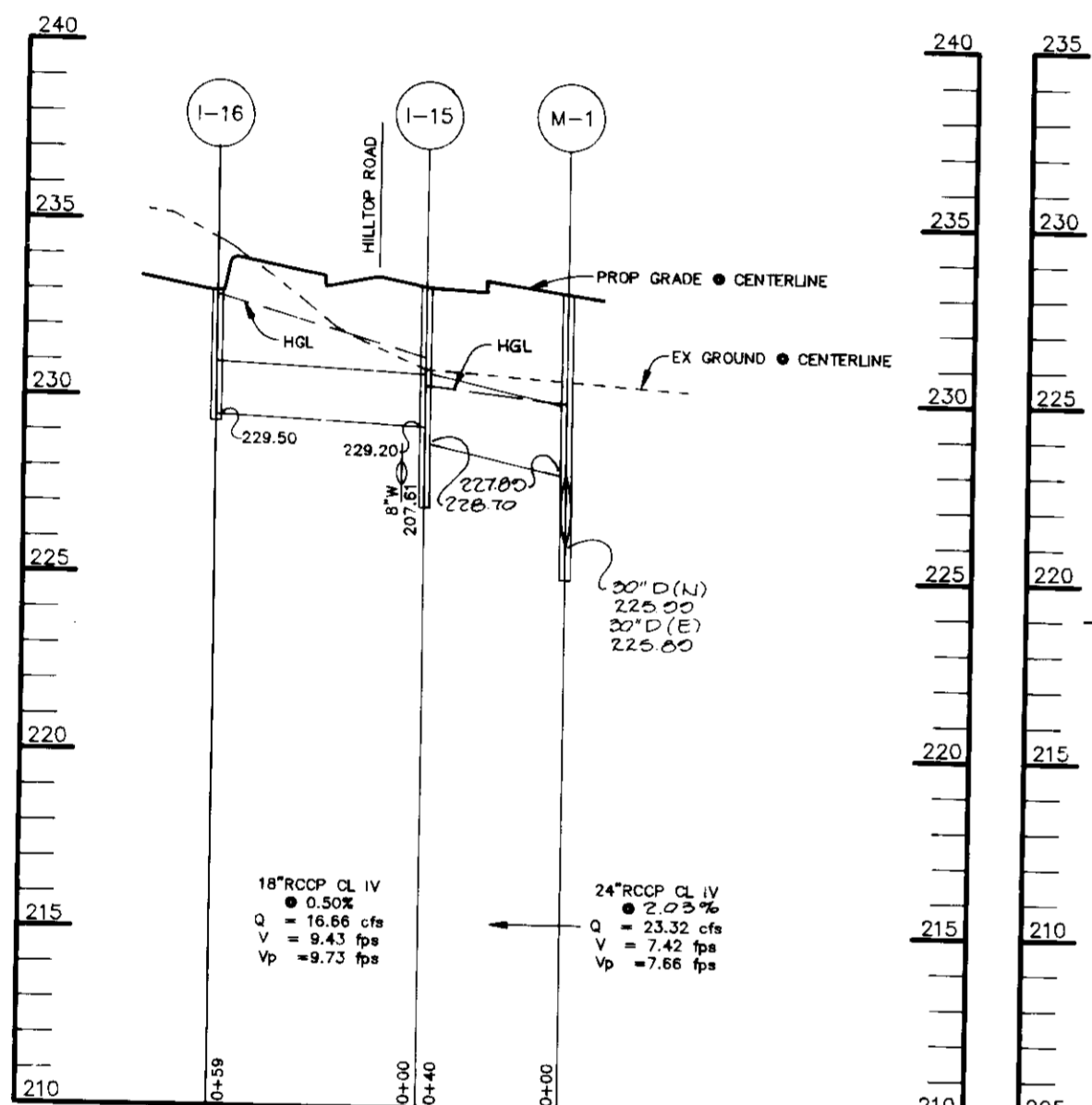
STORM DRAIN PROFILE

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



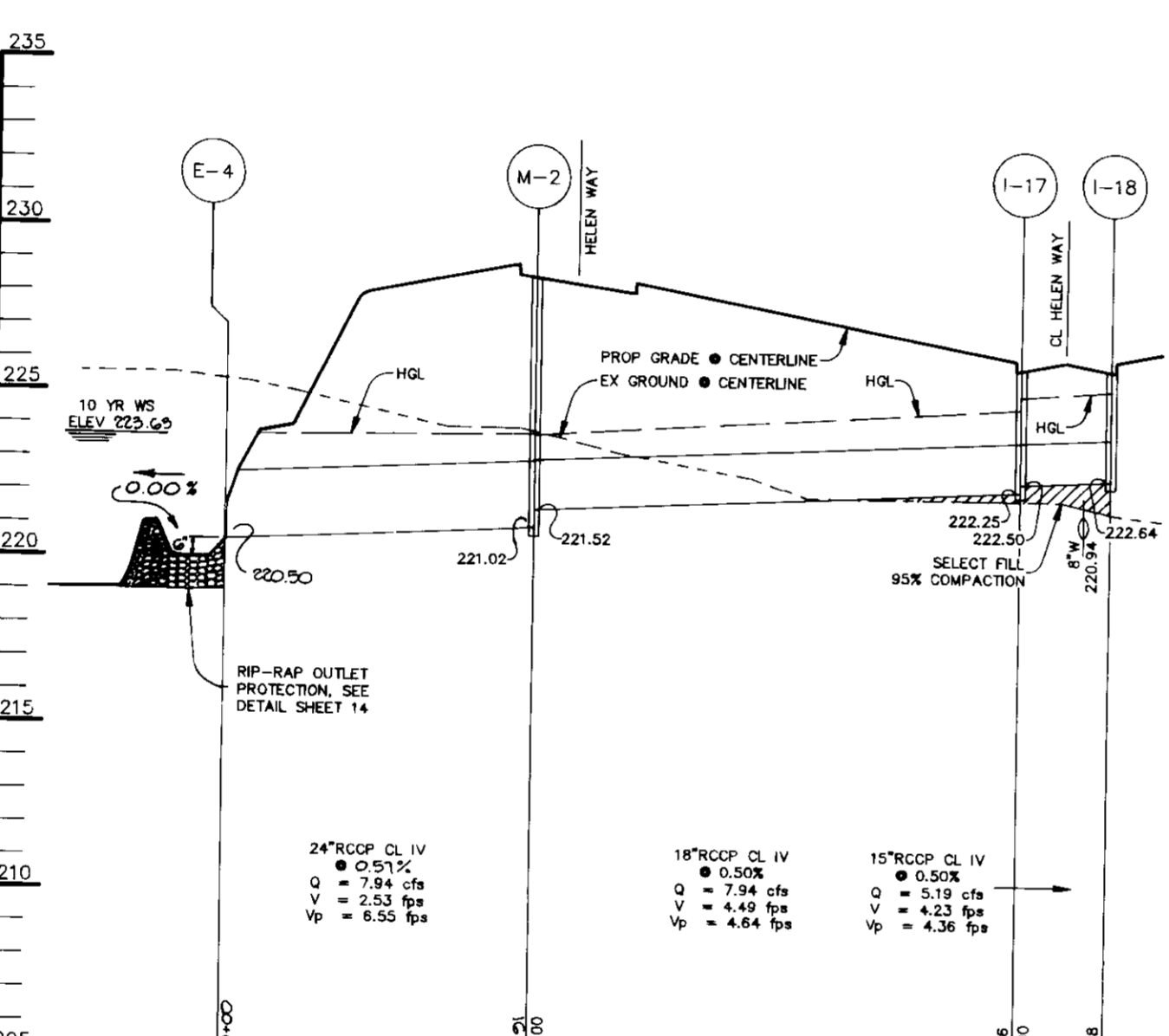
STORM DRAIN PROFILE

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



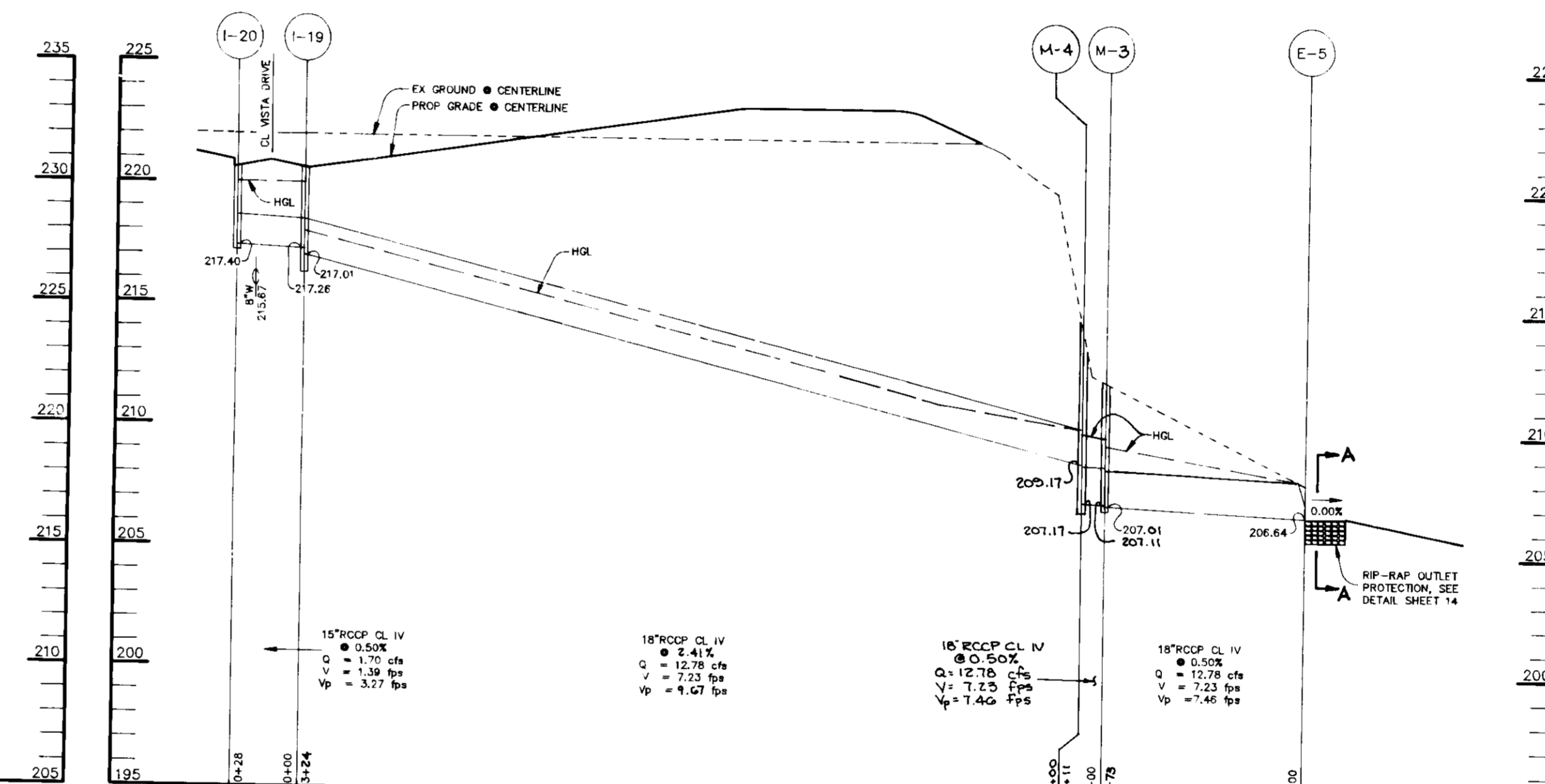
STORM DRAIN PROFILE

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



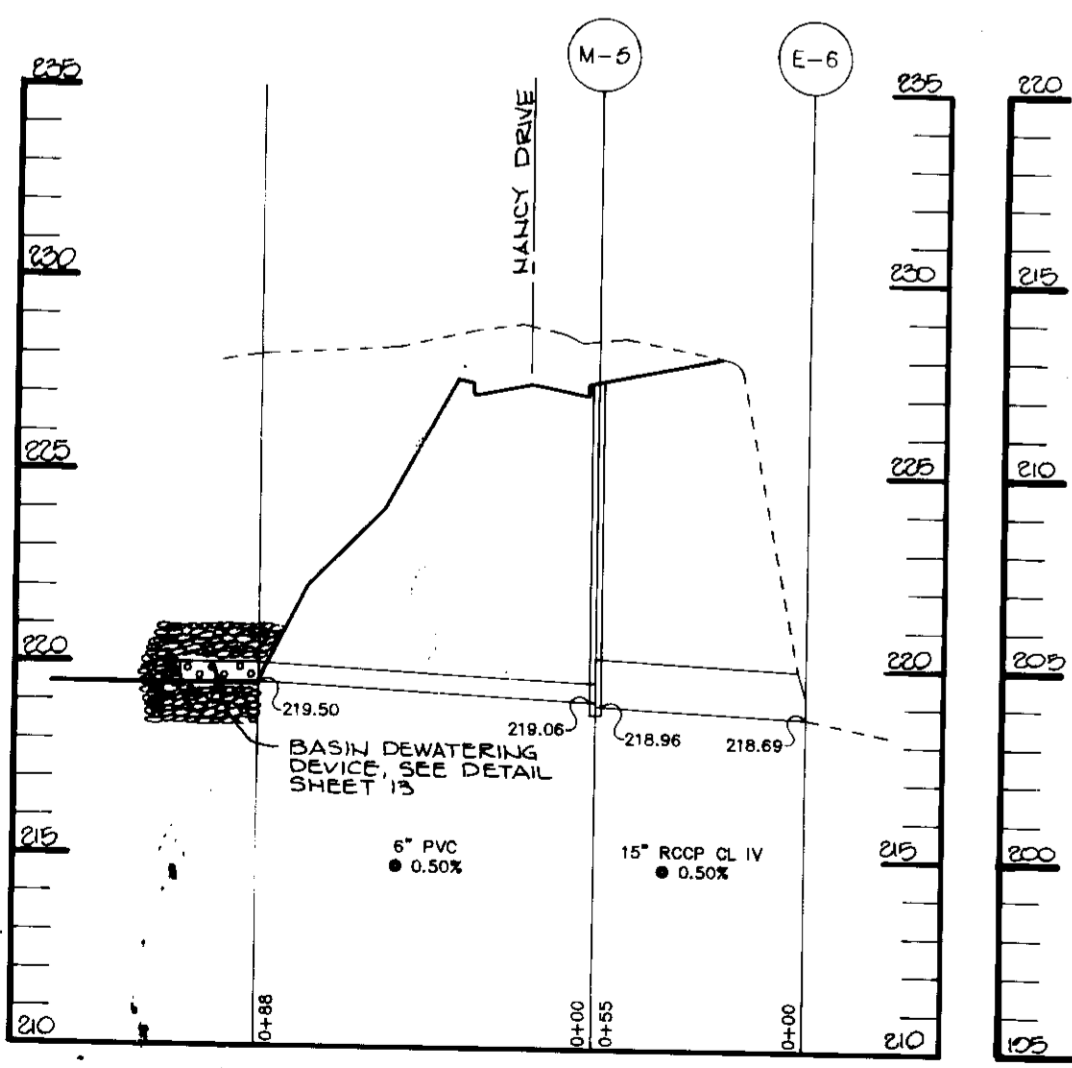
STORM DRAIN PROFILE

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



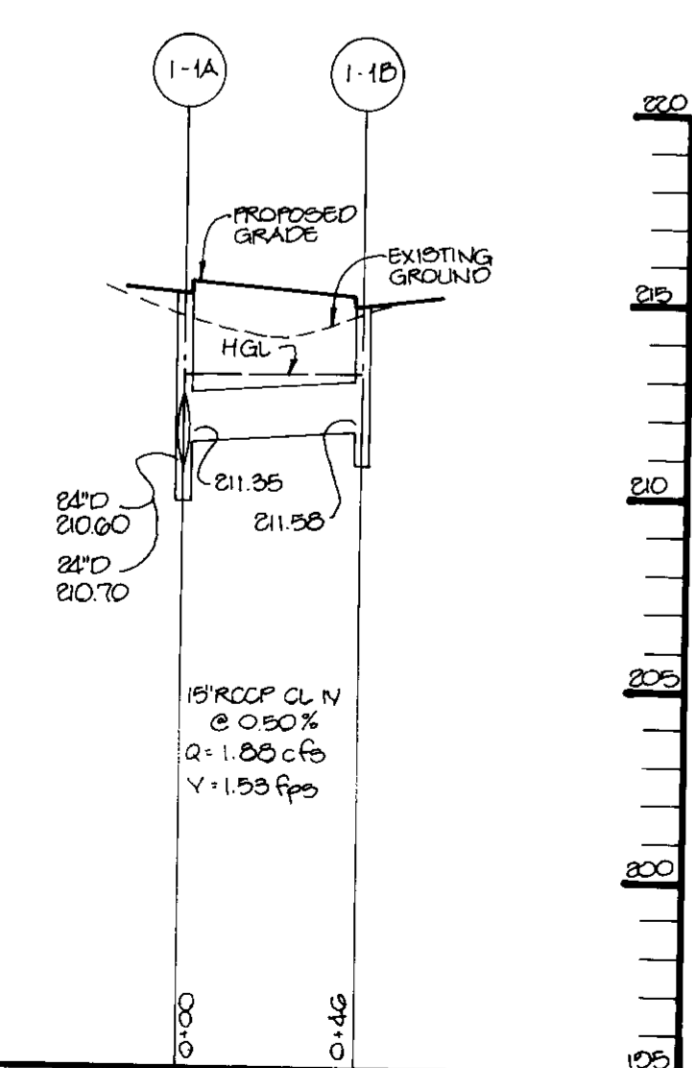
STORM DRAIN PROFILE

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



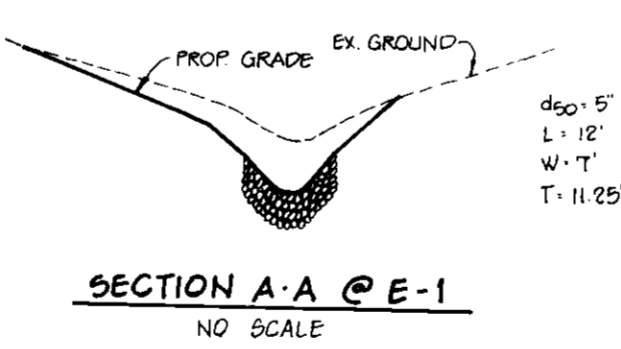
STORM DRAIN PROFILE

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

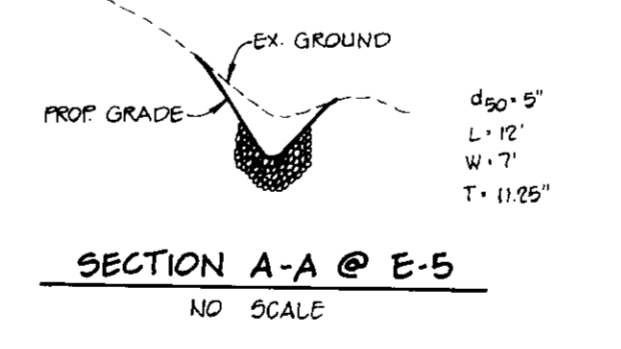


STORM DRAIN PROFILE

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



SECTION A-A @ E-1
NO SCALE



SECTION A-A @ E-5
NO SCALE

- NOTES:**
1. MINIMUM CLEARANCE ON ALL UTILITY CROSSINGS TO BE 1' MEASURED FROM OUTSIDE OF THE PIPES.
 2. ALL ELEVATIONS SHOWN ARE INVERT ELEVATIONS.

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

Joyce M. Bond per *8/15/94*
COUNTY HEALTH OFFICER DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.

Mark J. DeWalt 8/15/94
DIRECTOR DATE

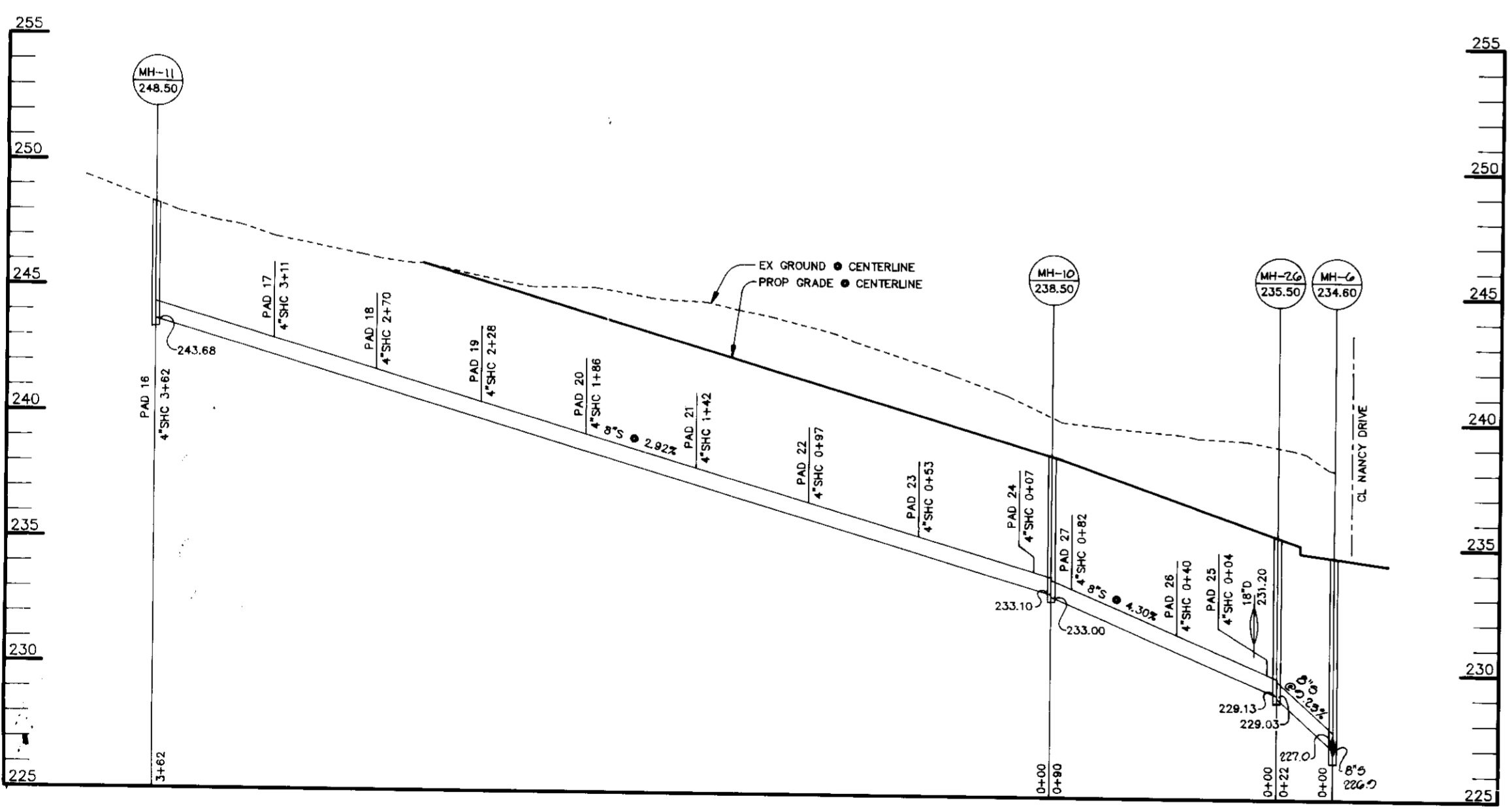
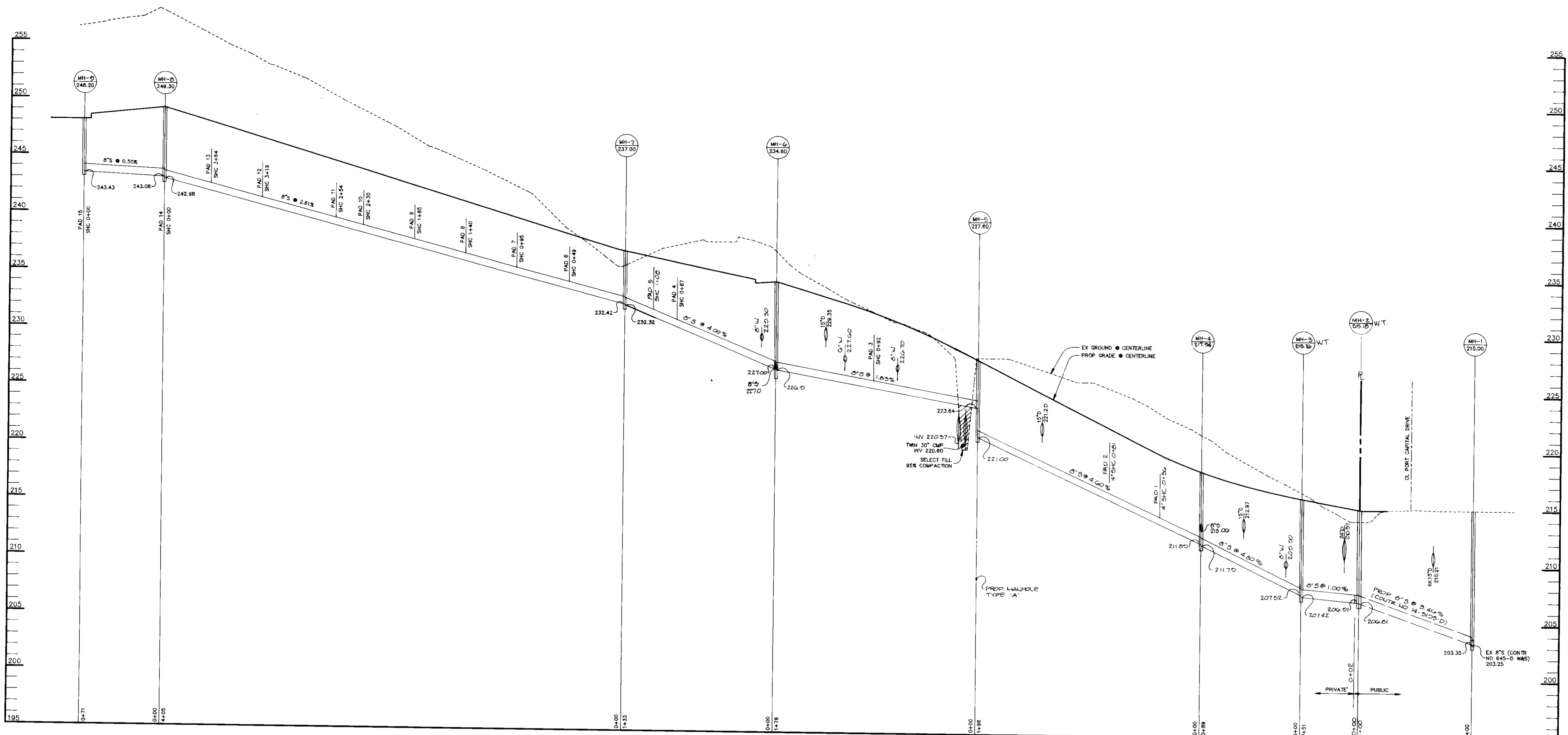
Aime Summari 8/17/94
CHIEF, DIVISION OF LAND DEVELOPMENT AND RESEARCH DATE

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

Alan M. Longino 7/28/94
DIRECTOR, *Arnie* DATE

Charles Anderson 7/28/94
CHIEF, BUREAU OF ENGINEERING DATE

DATE NO.	REVISION
OWNER / DEVELOPER	
THE CARLYLE GROUP C/O RONALD H. SINGER 9073 NEMO STREET LOS ANGELES, CA 90069	
PROJECT	
ALADDIN MOBILE HOME PARK PHASE II	
AREA ZONED R-MH TAX MAP 43 PARCELS 12, 118 ELECTION DISTRICT 6 HOWARD COUNTY, MARYLAND	
TITLE	
STORM DRAIN PROFILES	
RIEMER MUEGGE & ASSOCIATES, INC. A Land Planning, Engineering and Consulting Firm 8818 Centre Park Drive • Suite 200 • Columbia, Md 21045 410-997-8900 FAX: 410-997-9282	
7-8-94 DATE	CHECKED BY: J.P.O.
	DESIGNED BY: W.C.W.
	DRAWN BY: W.C.W.
	PROJECT NO: 77804
	DATE: JULY 8, 1994
	SCALE: AS SHOWN
<i>Arthur E. Muegge</i> ARTHUR E. MUEGGE	DRAWING NO. 10 OF 21



SEWER PROFILE

SCALE:
HOR.—1"=50'
VERT.—1"=5'

SEWER PROFILE

SCALE:
HOR.—1"=50'
VERT.—1"=5'

PAD NO.	SERVICE ELEVATION	APPROX. UNIT ELEVATION	PAD NO.	SERVICE ELEVATION	APPROX. UNIT ELEVATION
1	216.5	226.0	37	216.5	223.7
2	216.2	226.1	38	217.2	224.4
3	220.6	236.9	39	217.4	225.0
4	251.2	238.1	40	217.7	225.6
5	233.4	237.3	41	217.5	225.8
6	234.4	240.6	42	216.0	225.8
7	235.6	242.0	43	216.2	225.8
8	236.8	243.3	44	216.4	225.8
9	238.0	244.7	45	215.3	225.8
10	239.1	246.0	46	215.0	225.8
11	239.8	247.4	47	221.0	231.3
12	241.5	249.0	48	222.3	230.9
13	242.6	250.6	49	216.5	230.4
14	244.0	253.4	50	216.1	230.4
15	244.7	253.5	51	217.6	230.5
16	244.9	253.3	52	217.2	230.5
17	242.9	250.4	53	216.7	230.3
18	241.7	249.1	54	216.5	230.5
19	240.5	248.0	55	216.2	230.8
20	239.3	247.0	56	216.0	230.9
21	238.0	245.7	57	215.8	231.7
22	236.7	244.4	58	216.2	231.9
23	235.4	243.0	59	221.8	230.3
24	234.1	241.7	60	223.7	230.0
25	230.2	237.7	61	222.9	230.2
26	231.7	237.7	62	223.1	230.6
27	233.6	237.7	63	223.2	230.6
28	220.8	227.4	64	223.6	230.8
29	219.3	225.6	65	223.0	229.6
30	217.8	223.3	66	222.7	229.9
31	215.1	220.0	67	222.4	230.4
32	215.7	220.9	68	222.2	230.3
33	215.0	220.9	69	222.0	229.6
34	215.0	221.6	70	221.6	228.0
35	216.5	222.2	71	221.1	227.7
36	216.7	222.9			

NOTES:

1. MINIMUM CLEARANCE ON ALL UTILITY CROSSINGS TO 1' MEASURED FROM OUTSIDE OF THE PIPES.
2. ALL ELEVATIONS SHOWN ARE INVERT ELEVATIONS.

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

Jayce M. Bondrup 8/5/94
COUNTY HEALTH DEPARTMENT DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.

Mark J. Taylor 8/12/94
DIRECTOR DATE

Chia Summary 8/17/94
CHIEF, DIVISION OF LAND DEVELOPMENT AND RESEARCH DATE

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

Alan M. Johnson 7/26/94
DIRECTOR, Active DATE

Elizabeth Anderson Calia 7/26/94
CHIEF, BUREAU OF ENGINEERING DATE

10 5 04 1 ADDED WT LH TO MH 2 & MH 3

DATE NO. REVISION

OWNER / DEVELOPER

THE CARLYLE GROUP
C/O RONALD H. SINGER
9073 NEMO STREET
LOS ANGELES, CA 90069

PROJECT

ALADDIN MOBILE HOME PARK

PHASE II

AREA ZONED R-MH TAX MAP 43 PARCELS 12, 118
ELECTION DISTRICT 6
HOWARD COUNTY, MARYLAND

TITLE

SEWER PROFILES

RIEMER MUEGGE & ASSOCIATES, INC.
A Land Planning, Engineering and Consulting Firm
8818 Centre Park Drive • Suite 200 • Columbia, Md 21045
410-997-8900 FAX: 410-997-9282

7.6.94
DATE

CHECKED BY: J.P.O.

DESIGNED BY: W.C.W.

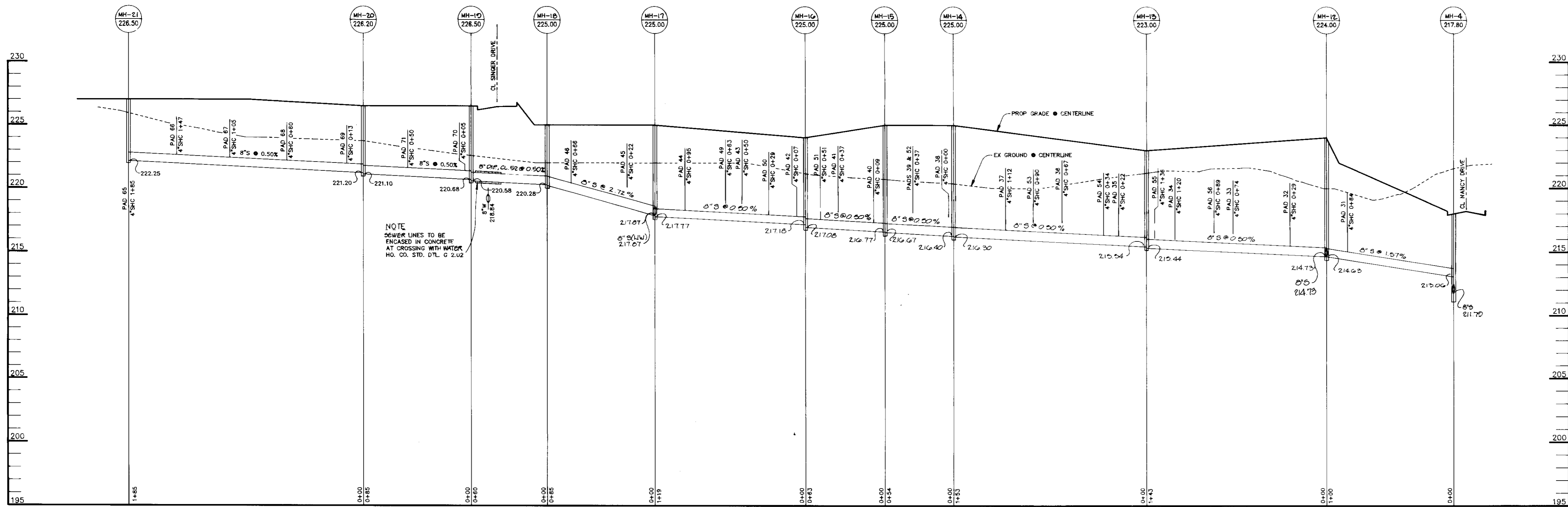
DRAWN BY: W.C.W.

PROJECT NO: 77804

DATE: JULY 6, 1994

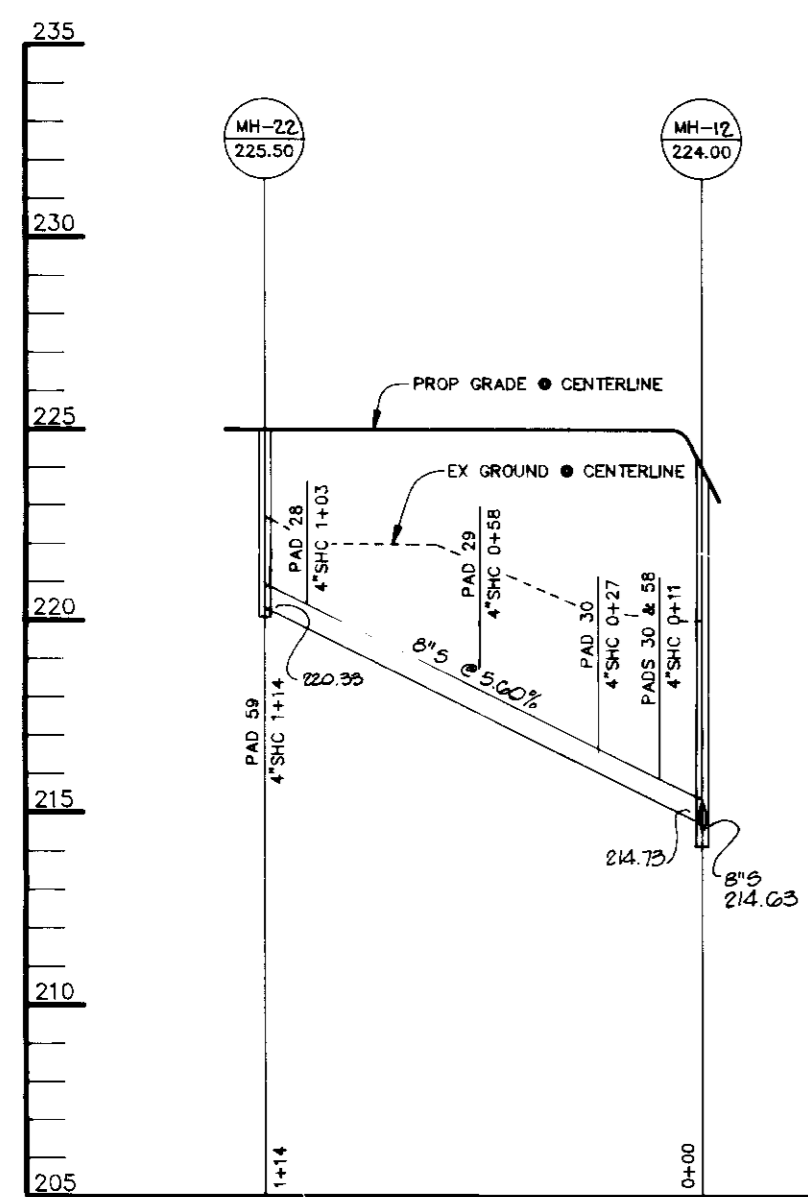
SCALE: AS SHOWN

ARTHUR E. MUEGGE 48707
DRAWING NO. 11 OF 21



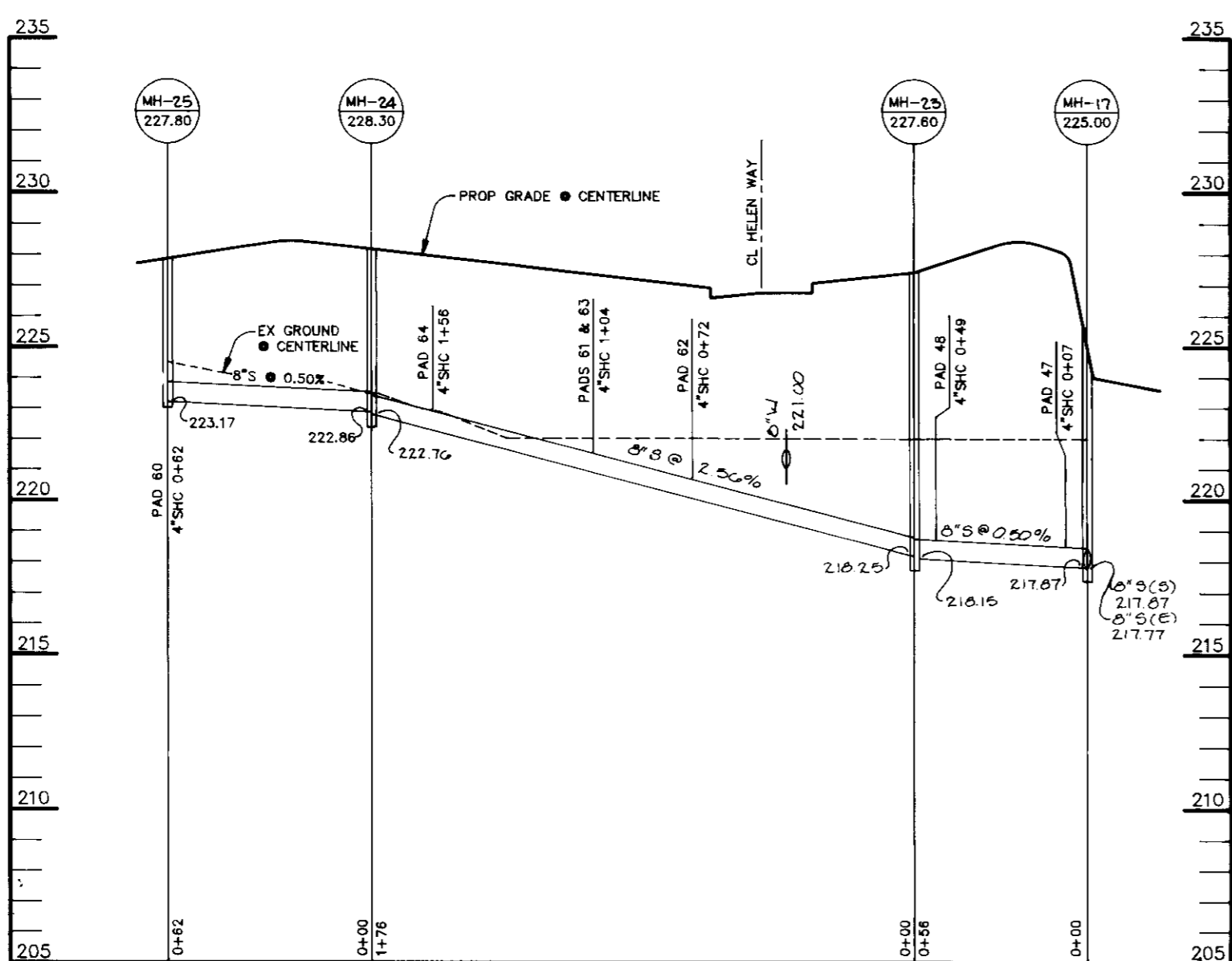
SEWER PROFILE

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'

PAD NO.	SERVICE ELEVATION	APPROX. UNIT ELEVATION	PAD NO.	SERVICE ELEVATION	APPROX. UNIT ELEVATION
1	210.5	226.0	37	210.9	223.7
2	218.2	228.1	38	217.2	224.4
3	228.8	236.9	39	217.4	225.0
4	231.2	238.1	40	217.7	225.8
5	233.4	237.3	41	217.0	225.8
6	234.4	240.8	42	216.0	225.8
7	235.6	242.0	43	216.2	225.8
8	236.8	243.3	44	216.4	225.8
9	238.0	244.7	45	215.5	225.8
10	239.1	246.0	46	215.0	225.8
11	239.8	247.4	47	221.0	231.3
12	241.5	249.0	48	222.3	230.9
13	242.6	250.6	49	216.5	230.4
14	244.0	253.4	50	216.1	230.4
15	244.7	253.5	51	217.8	230.5
16	244.9	253.3	52	217.2	230.5
17	242.9	250.4	53	216.7	230.3
18	241.7	249.1	54	216.5	230.5
19	240.5	248.0	55	216.2	230.8
20	239.3	247.0	56	216.0	230.9
21	238.0	245.7	57	217.6	231.7
22	236.7	244.4	58	218.2	231.9
23	235.4	243.0	59	221.6	230.3
24	234.1	241.7	60	223.7	230.0
25	230.2	237.7	61	222.9	230.2
26	231.7	237.7	62	223.1	230.6
27	233.6	237.7	63	223.2	230.6
28	230.8	237.4	64	223.6	230.8
29	219.3	225.6	65	223.0	229.6
30	217.8	223.3	66	222.7	229.9
31	215.1	220.0	67	222.4	230.4
32	216.7	220.9	68	222.2	230.3
33	215.0	220.9	69	222.0	229.8
34	215.0	221.5	70	221.6	228.0
35	216.6	222.2	71	221.1	227.7
36	216.7	222.9			

NOTES:

- MINIMUM CLEARANCE ON ALL UTILITY CROSSINGS TO BE 1' MEASURED FROM OUTSIDE OF THE PIPES.
- ALL ELEVATIONS SHOWN ARE INVERT ELEVATIONS.

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

Dwayne M. Boyd 8/5/94
COUNTY HEALTH OFFICER DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.

Frank J. Langley 8/17/94
DIRECTOR DATE

Cima Swannery 8/17/94
CHIEF, DIVISION OF LAND DEVELOPMENT AND RESEARCH DATE

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

Oliver M. Langston 7/28/94
DIRECTOR DATE

Charrell Anderson-Cole 7/28/94
CHIEF, BUREAU OF ENGINEERING DATE

10-5-04	1	ADDED 8'S TO MH 12 & REMOVED 8'S FROM MH 15
DATE	NO.	REVISION

OWNER / DEVELOPER

THE CARLYLE GROUP
C/O RONALD H. SINGER
9073 NEMO STREET
LOS ANGELES, CA 90069

PROJECT
ALADDIN MOBILE HOME PARK
PHASE II

AREA ZONED R-MH TAX MAP 43 PARCELS 12, 118
ELECTION DISTRICT 6
HOWARD COUNTY, MARYLAND

TITLE
SEWER PROFILES

RIEMER MUEGGE & ASSOCIATES, INC.
A Land Planning, Engineering and Consulting Firm
8818 Centre Park Drive • Suite 200 • Columbia, Md 21045
410-997-8900 FAX: 410-997-9282

7-8-94 DATE	CHECKED BY: J.P.O.
<i>Arthur E. Muegge</i>	DESIGNED BY: W.C.W.
	DRAWN BY: W.C.W.
	PROJECT NO: 77804
	DATE: JULY 8, 1994
	SCALE: AS SHOWN
	DRAWING NO. 12 OF 21

SPECIFICATIONS

These specifications are appropriate to all ponds within the scope of the Standard for practice M-178. All references to ASTM and AASHTO specifications apply to the most recent version.

SITE PREPARATION

Areas designated for borrow areas, embankment, and structural works shall be cleared, grubbed and stripped of topsoil. All trees, vegetation, roots and other objectionable material shall be removed. Channel banks and steep breaks shall be sloped to no steeper than 1:1.

Areas to be covered by the reservoir will be cleared of all trees, brush, logs, stumps, rubbish and other objectionable material unless otherwise designated on the plans. Trees, brush and stumps shall be cut approximately level with the ground surface. For dry streambed maintenance, a minimum of a 50 foot radius around the least structure shall be cleared.

All cleared and grubbed material shall be disposed of outside and below the limits of the dam and reservoir or directed to the owner or his representative. When specified, a sufficient quantity of topsoil will be stockpiled in a suitable location for use on the embankment and other designated areas.

EARTH FILL

Material - The fill material shall be taken from approved designated borrow areas. It shall be free of roots, stumps, wood, rubbish, stones greater than 6" frozen or other objectionable material. Fill material for the center of the embankment and cut off trench shall conform to Unified Soil Classification (SC, CH, or CL). Consideration may be given to the use of other materials in the embankment if design and construction are supervised by a geotechnical engineer.

Placement - Areas on which fill is to be placed shall be scarified prior to placement of fill. Fill materials shall be placed in maximum 8-inch thick (before compaction) layers which are to be continuous over the entire length of the fill. The most permeable borrow material shall be placed in the downstream portions of the embankment. The practical spillway must be installed concurrently with fill placement and not recorded into the embankment.

Compaction - The movement of the hauling and spreading equipment over the fill shall be controlled so that the entire surface of each lift shall be traversed by not less than one tread track of the equipment or compaction shall be obtained by a minimum of four complete passes of a steamroller, rubber tire or vibratory roller. Fill material shall contain sufficient moisture so that the required degree of compaction will be obtained with the equipment used. The fill material shall contain sufficient moisture so that if formed into a ball it will not crumble yet not be so wet that water can be squeezed out.

Where a minimum required density is specified, it shall not be less than 95% of maximum dry density with a moisture content within +/- 2% of the optimum. Each layer of fill shall be compacted as necessary to obtain that density, and is to be certified by the Engineer at the time of construction. All compaction is to be determined by AASHTO Method T-99.

Cutoff Trench - The cutoff trench shall be excavated into impervious material along or parallel to the centerline of the embankment as shown on the plans. The bottom width of the trench shall be governed by the equipment used for excavation, with the minimum width being four feet. The depth shall be at least four feet below existing grade or as shown on the plans. The side slope of the trench shall be 1 to 1 or flatter.

The back fill shall be compacted with construction equipment, rollers, or hand tampers to secure maximum density and minimum permeability.

CARE OF WATER DURING CONSTRUCTION

All work on permanent structures shall be carried out in areas free from water. The Contractor shall construct and maintain all temporary dikes, levees, cofferdams, drainage channels, and stream diversions necessary to protect the areas to be occupied by the permanent works. The contractor shall also furnish, install, operate, and maintain all necessary pumps and other equipment required for removal of water from the various parts of the work and for maintaining the excavation, foundation, and other parts of the work free from water as required or directed by the engineer for constructing each part of the work. After having served their purpose, all temporary protective works shall be removed or leveled and graded to the extent required to prevent obstruction in any degree whatsoever of the flow of water to the spillway or outlet works and so as not to interfere in any way with the operation or maintenance of the structure. Stream diversions shall be maintained until the full flow can be passed through the permanent works. The removal of water from the required excavation and the foundation will be accomplished in a manner and to the extent that will maintain stability of the excavated slopes and bottom of required excavations and will allow satisfactory performance of all construction operations. During the placing and compacting of material in required excavations, the water level of the locations being refilled shall be maintained below the bottom of the excavation at such locations which may require diking the water to pumps from which the water shall be pumped.

STABILIZATION

All borrow areas shall be graded to provide proper drainage and left in a stable condition. All exposed surfaces of the embankment, spillway, spill and borrow areas, and barge shall be stabilized by seeding, liming, fertilizing and mulching according to the Maryland Soil Conservation Service Standards and Specifications for Critical Area Planting (MD-342) or as shown on the accompanying drawings.

EROSION AND SEDIMENT CONTROL

Construction operations will be carried out in such a manner that erosion will be controlled and water and air pollution minimized. State and local laws concerning pollution abatement will be followed. Construction plans shall detail erosion and sediment control measures to be employed during the construction process.

STRUCTURE BACKFILL

Backfill adjacent to pipes or structures shall be of the type and quality conforming to that specified for the adjoining fill material. The fill shall be placed in horizontal layers to exceed four inches in thickness and compacted by hand tampers or other manually directed compaction equipment. The material needs to fill completely all space under and adjacent to the pipe. At the time during the backfilling operation shall driven equipment be allowed to operate closer than four feet, measured horizontally, to any part of a structure. Under no circumstances shall equipment be driven over any part of a concrete structure or pipe, unless there is a compacted fill of 24" or greater over the structure or pipe.

Pipe Conduits

All pipes shall be circular in cross section.

Corrugated Metal Pipe - All of the following criteria shall apply for corrugated metal pipe:

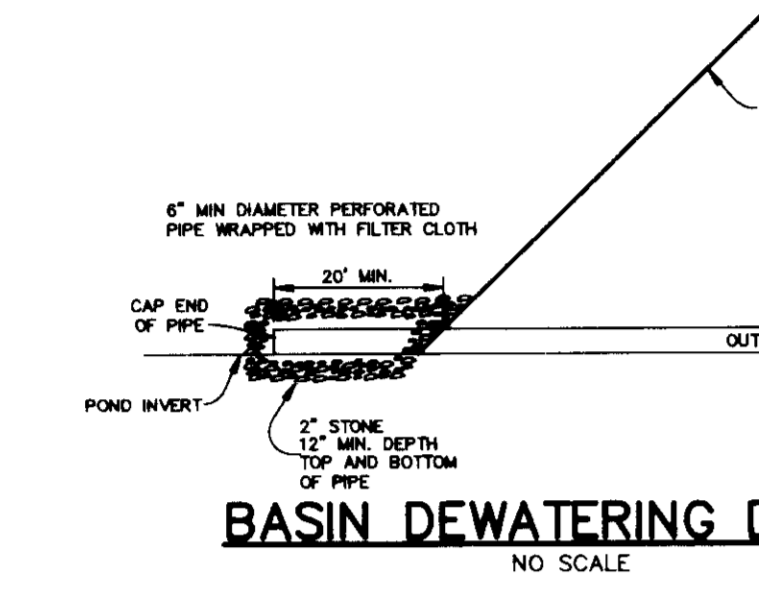
- Material - (Steel Pipe) - This pipe and its appurtenances shall be galvanized and fully bituminous coated and shall conform to the requirements of AASHTO Specification M-190 Type A with watertight coupling bands. Any bituminous coating damaged or otherwise removed shall be replaced with cold applied bituminous coating compound. Class pipes with polymeric coating shall have a minimum coating thickness of 0.01 inch (10 mil) on both sides of the pipe. The following coatings or type bands with 1/2" wide by 3/8" thick closed cell circular neoprene gasket, and a 1/2" wide huggar type band with 0-ring gaskets having a minimum diameter of 1/2" greater than the corrugation depth. Pipe 48" in diameter and larger shall be connected by a 24" long under corrugated band using rods and nuts. A 1/2" wide by 3/8" thick closed cell circular neoprene gasket will be installed on the end of each pipe for a total of 24" of heavily corrugated pipe shall have other continuously welded seams or have lock seams.
- Connections - All connections with pipe must be completely watertight. The drain pipe or barrel connection to the rear shall be welded all around when the pipe and riser are metal. Anti-seep collars shall be connected to the pipe in such a manner as to be completely watertight. Dimple bands are not considered to be watertight.
- All connections shall use a rubber or neoprene gasket when joining pipe sections. The end of each pipe shall be re-runned on adequate number of corrugations to accommodate the band width. The following pipe connections are acceptable for pipes less than 48" in diameter: forges on both ends of the pipe, a 1/2" wide standard lap type band with 1/2" wide by 3/8" thick closed cell circular neoprene gasket, and a 1/2" wide huggar type band with 0-ring gaskets having a minimum diameter of 1/2" greater than the corrugation depth. Pipe 48" in diameter and larger shall be connected by a 24" long under corrugated band using rods and nuts. A 1/2" wide by 3/8" thick closed cell circular neoprene gasket will be installed on the end of each pipe for a total of 24" of heavily corrugated pipe shall have other continuously welded seams or have lock seams.
- Bedding - The pipe shall be firmly and uniformly bedded throughout its entire length. Where rock or soft, spongy or other unstable soil is encountered, all such material shall be removed and replaced with suitable earth compacted to provide adequate support.
- Backfilling shall conform to "Structure Backfill."
- Other details (anti-seep collars, valves, etc.) shall be as shown on the drawings.

Reinforced Concrete Pipe - All of the following criteria shall apply for reinforced concrete pipe:

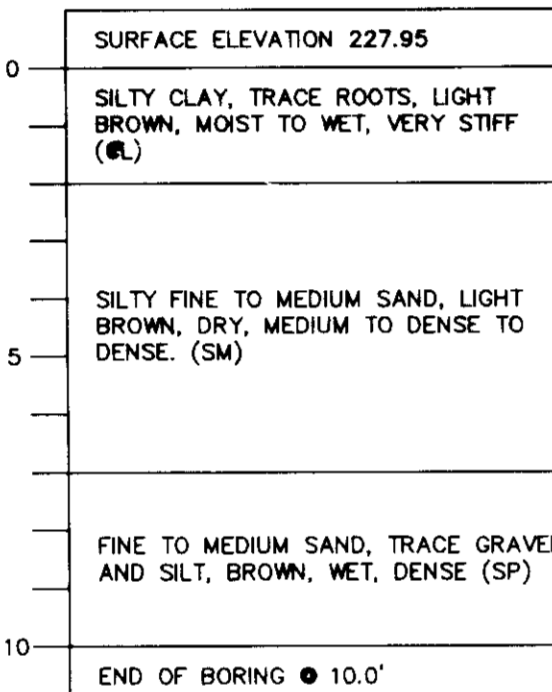
- Material - Reinforced concrete pipe shall have bell and spigot joints with rubber gaskets and shall equal or exceed ASTM Designation C-301. An approved equivalent is AWWA Specification C-302.
- Bedding - All reinforced concrete pipe conduits shall be laid in a concrete bedding for their entire length. The bedding shall consist of high strength concrete placed under the pipe and up the side of the pipe at least 10% of the outside diameter with a minimum thickness of 3 inches, or as shown on the drawings.
- Laying pipe - Bell and spigot pipe shall be placed with the bell and upstream. Joints shall be made in accordance with recommendations of the manufacturer of the material. After the joints are made for the entire length, the bedding shall be placed so that all spaces under the pipe are filled. Care shall be exercised to prevent any deviation from the original line and grade of the pipe. The first joint must be located within 2 feet from the rear.
- Backfilling shall conform to Structure Backfill.
- Other details (anti-seep collars, valves, etc.) shall be as shown on the drawings.

Polyvinyl Chloride (PVC) Pipe - All of the following criteria shall apply for polyvinyl chloride (PVC) pipe:

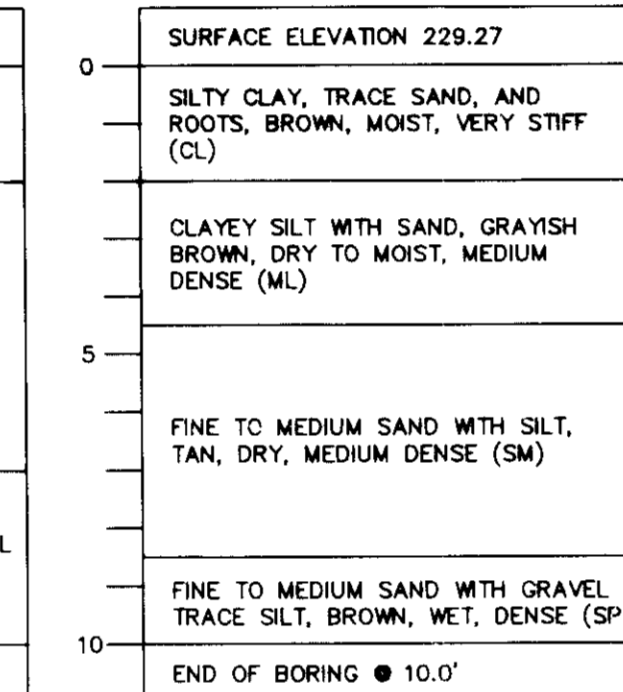
- Material - PVC pipe shall be PVC-1120 or PVC-1220 conforming to ASTM D-1785 or ASTM D-2241.
- Joints and connections to anti-seep collars shall be completely watertight.
- Bedding - The pipe shall be firmly and uniformly bedded throughout its entire length. Where rock or soft, spongy or other unstable soil is encountered, all such material shall be removed and replaced with suitable earth compacted to provide adequate support.
- Backfilling shall conform to Structure Backfill.
- Other details (anti-seep collars, valves, etc.) shall be as shown on the drawings.



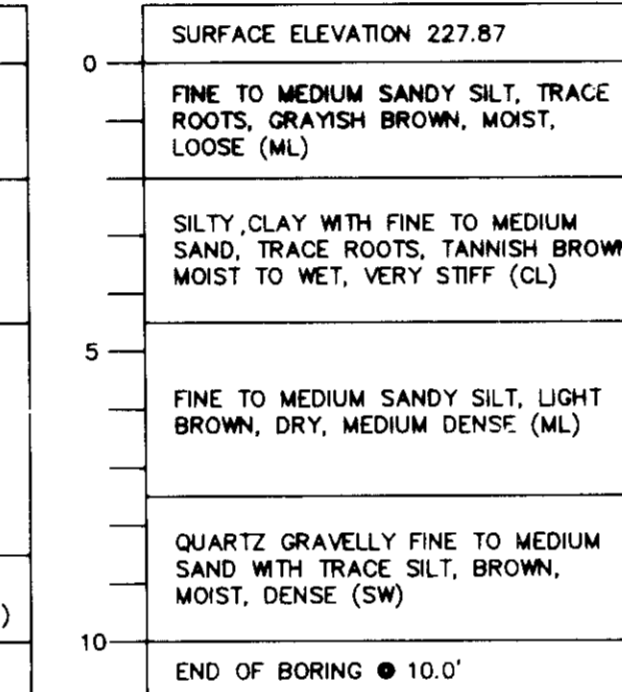
BASIN DEWATERING DEVICE
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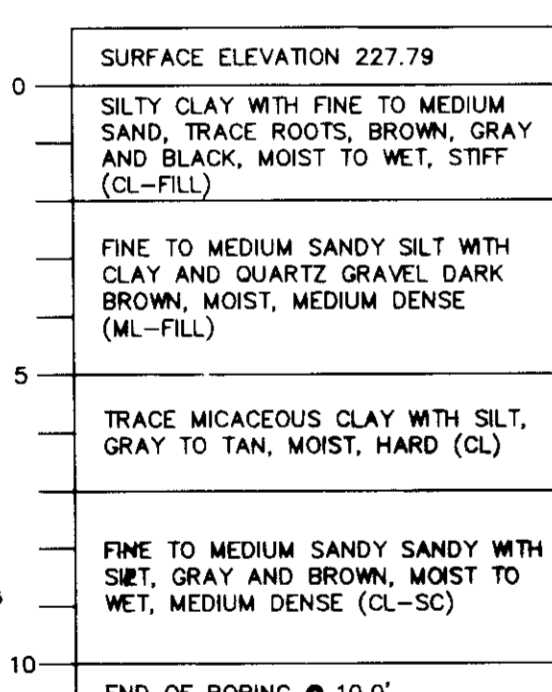
BORING B-1
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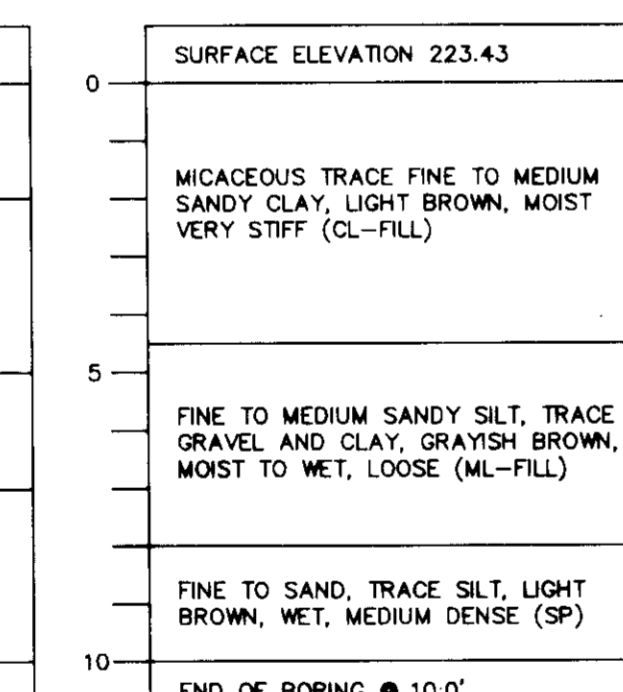
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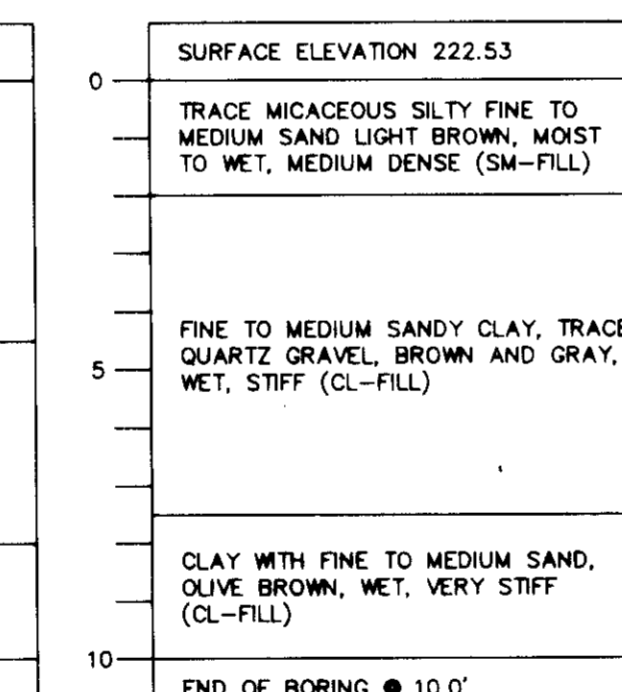
BORING B-3
NO SCALE



BORING B-4
NO SCALE



BORING B-5
NO SCALE



BORING B-6
NO SCALE

ROCK RIPRAP

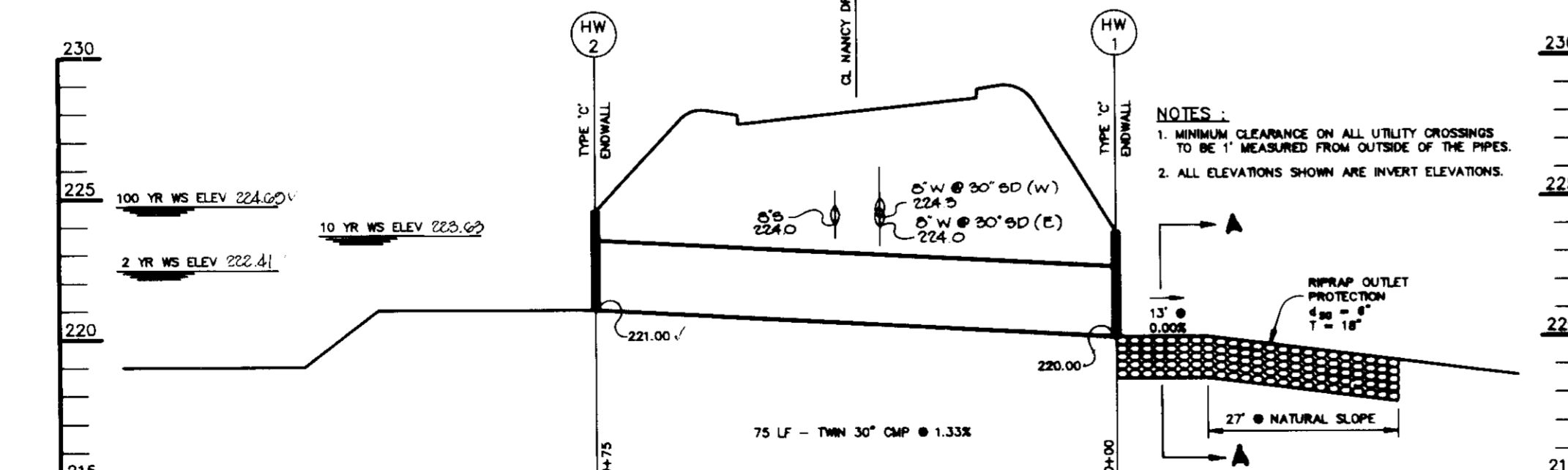
All rock shall be dense, sound, and free from cracks, seams, and other defects conducive to accelerated weathering. The rock fragments shall be angular to subrounded in shape. The least dimension of an individual rock fragment shall be not less than one-third the greatest dimension of the fragment.

The rock shall have the following properties:

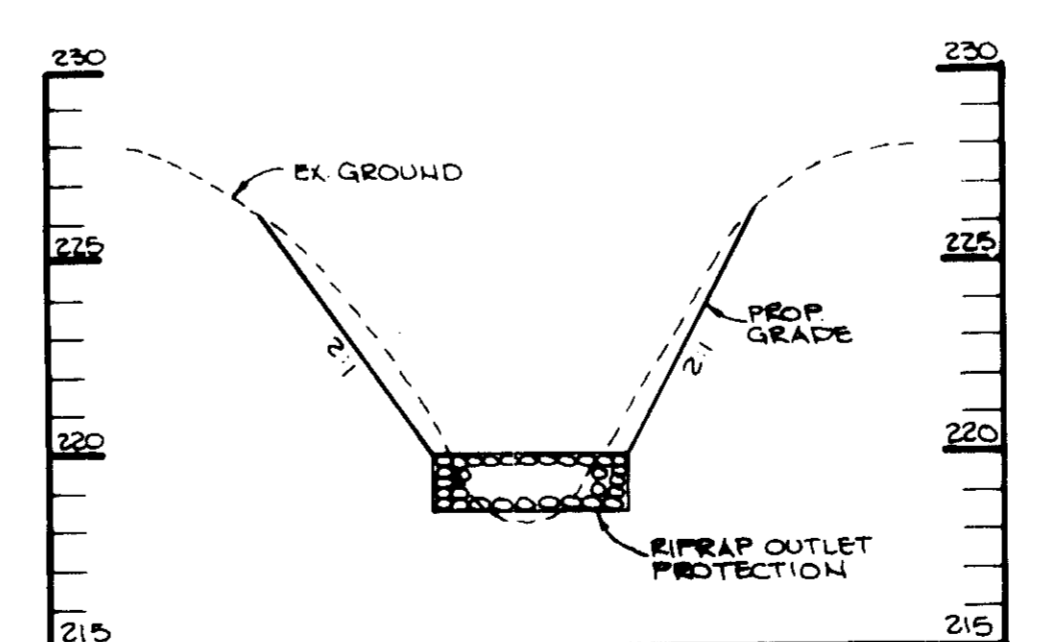
- Bulk specific gravity (saturated surface-dry basis) not less than 2.5.
- Absorption not more than three percent.
- Soundness: Weight loss in five cycles not more than 20 percent when sodium sulfate is used.

Bulk specific gravity and absorption shall be determined according to ASTM C 127. The test for soundness shall be performed according to ASTM C 88.

The riprap shall be placed in the required thickness in one operation. The rock shall be delivered and placed in a manner that will have the riprap in place shall be reasonably homogeneous with the larger rocks uniformly distributed and they in contact one to another with smaller rocks filling the voids between the larger rocks. Filter cloth shall be placed under all riprap and shall meet the requirements of Maryland Department of Transportation, State Highway Administration Standard Specifications for Construction and Materials, Section 918.12.



PROFILE THRU CL OF SPILLWAY
SCALE
HOR - 1" = 20'
VERT - 1" = 5'



SECTION A-A
SCALE
HOR - 1" = 10'
VER - 1" = 5'

JAYKANT D PAREKH #101245 DATE

BY THE DEVELOPER :

I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN, AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTIONS BY THE HOWARD SOIL CONSERVATION DISTRICT.

DEVELOPER DATE
W.E. HOME PARK 1/5/94

BY THE ENGINEER :

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.

ENGINEER DATE

THESE PLANS HAVE BEEN REVIEWED FOR THE HOWARD SOIL CONSERVATION DISTRICT AND MEET THE TECHNICAL REQUIREMENTS FOR SOIL EROSION AND SEDIMENT CONTROL.

U.S. SOIL CONSERVATION SERVICE DATE
8/12/94

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

HOWARD SOIL CONSERVATION DISTRICT DATE
8/12/94

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE DISTRICTS HOWARD COUNTY HEALTH DEPARTMENT.

COUNTY HEALTH OFFICER DATE
8/5/94

APPROVED FOR HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.

DIRECTOR DATE
8/12/94

CHIEF, DIVISION OF LAND DEVELOPMENT AND RESEARCH DATE
8/17/94

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

DIRECTOR DATE
7/28/94

CHIEF, BUREAU OF ENGINEERING DATE
7/28/94

DATE NO. REVISION

OWNER / DEVELOPER

THE CARLYLE GROUP
C/O RONALD H. SINGER
9073 NEMO STREET
LOS ANGELES, CA 90069

PROJECT
ALADDIN MOBILE HOME PARK
PHASE II

AREA ZONED R-MH TAX MAP 43 PARCELS 12, 118
ELECTION DISTRICT 6
HOWARD COUNTY, MARYLAND

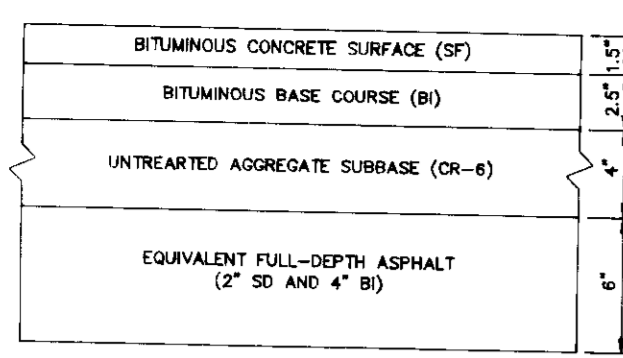
TITLE **STORMWATER MANAGEMENT**
PROFILES AND DETAILS

RIEMER MUEGGE & ASSOCIATES, INC.
A Land Planning, Engineering and Consulting Firm
8818 Centre Park Drive • Suite 200 • Columbia, Md 21045
410-997-8900 FAX : 410-997-9282

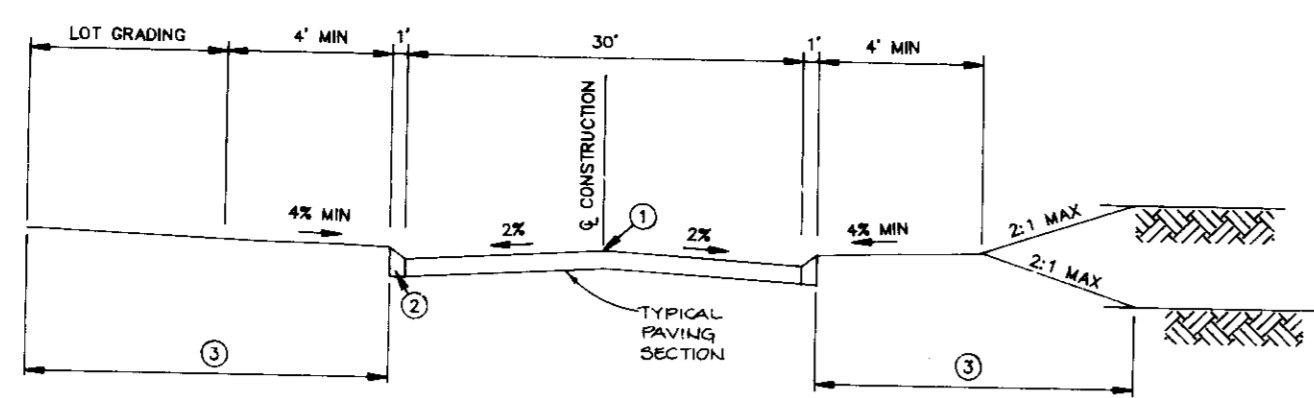
DATE 7-28-94

CHECKED BY : J.P.O.
DESIGNED BY : W.C.W.
DRAWN BY : W.C.W.
PROJECT NO : 77804
DATE : JULY 8, 1994
SCALE : AS SHOWN
DRAWING NO. 13 OF 21

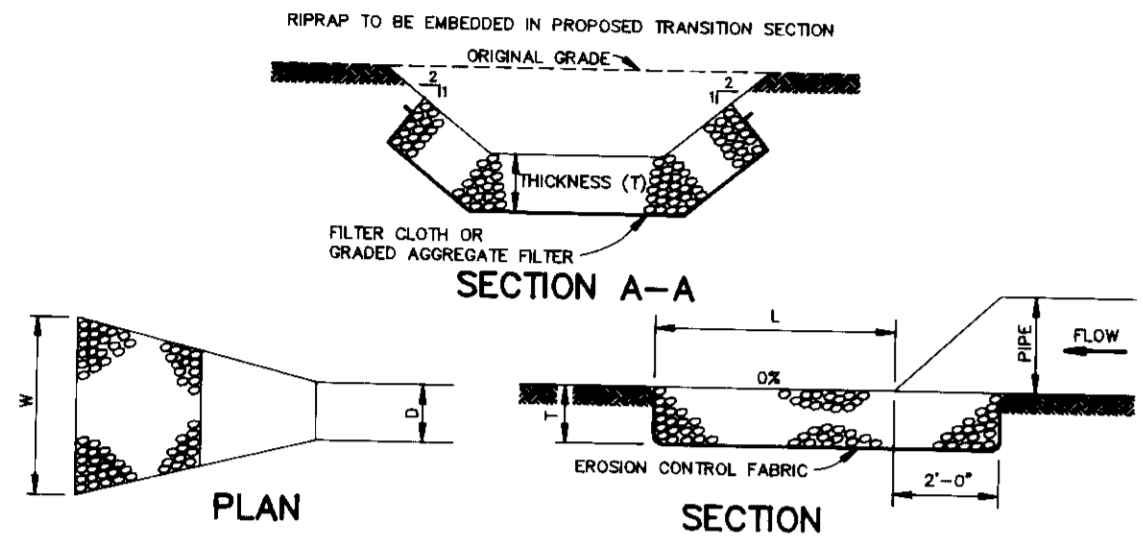
ARTHUR E. MUEGGE #8707



AS RECOMMENDED BY GEOTECHNICAL REPORT
TYPICAL PAVING SECTION
 NO SCALE



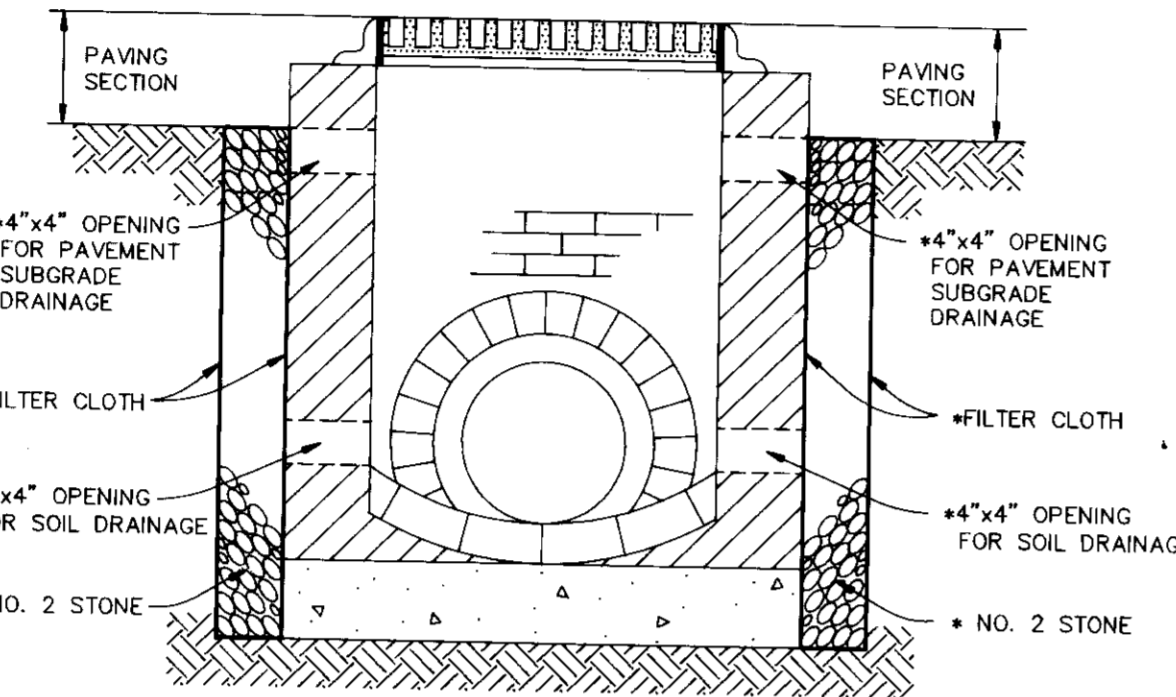
CLOSED SECTION
 NO SCALE
 ① PROFILE GRADE LINE (PGL), SEE DESIGN MANUAL.
 ② BITUMINOUS VALLEY GUTTER, 3.5\"/>



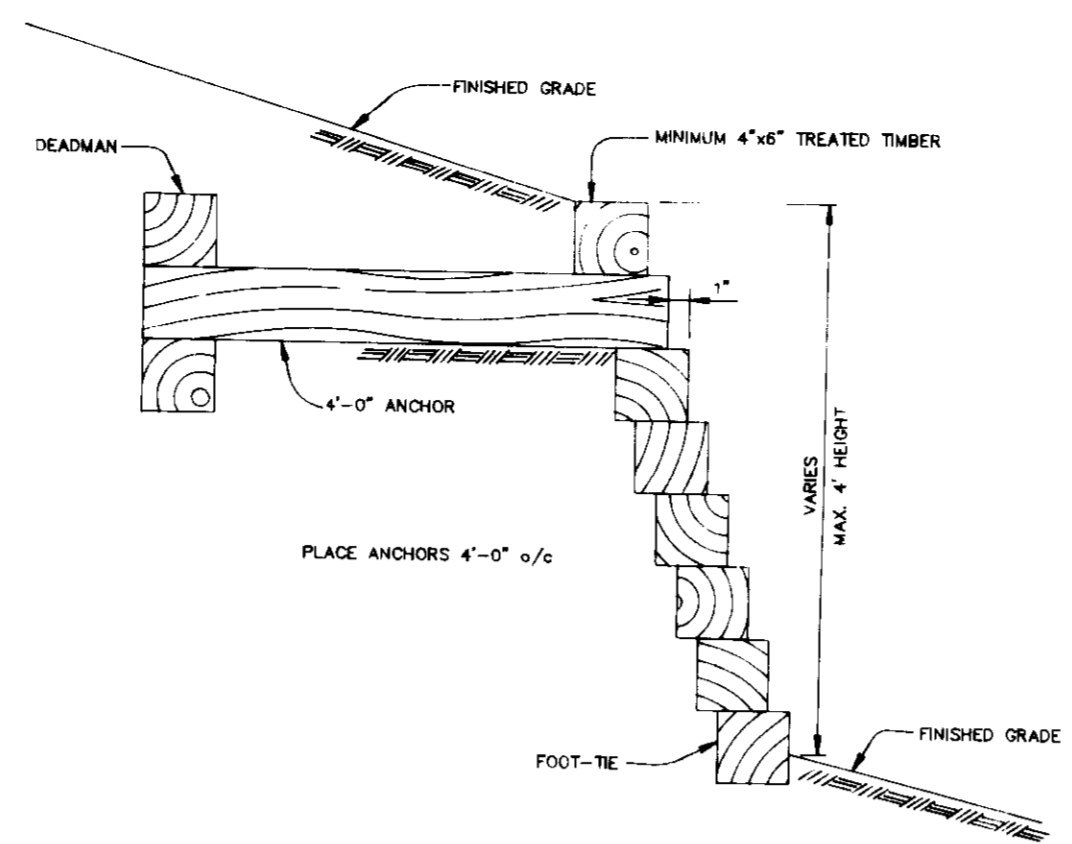
STRUCTURE	MEDIUM STONE DIA.	LENGTH (L)	WIDTH (W)	THICKNESS (T)
E-1	5"	12'	7'	11.25"
E-2	2.5"	6'	9'	9"
E-3	12"	24'	29'	27"
E-4	5"	12'	16'	11.25"
E-5	5"	12'	7'	11.25"

RIPRAP OUTLET PROTECTION DETAIL
 NO SCALE

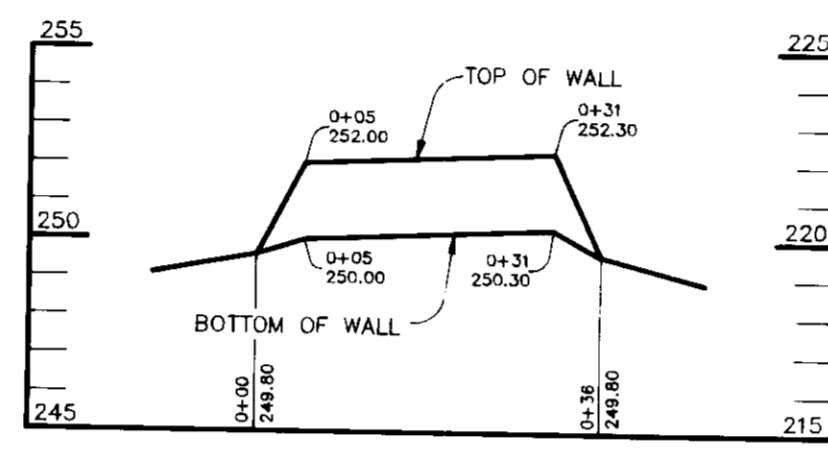
TYPICAL SECTION LOCAL ROAD
 NO SCALE



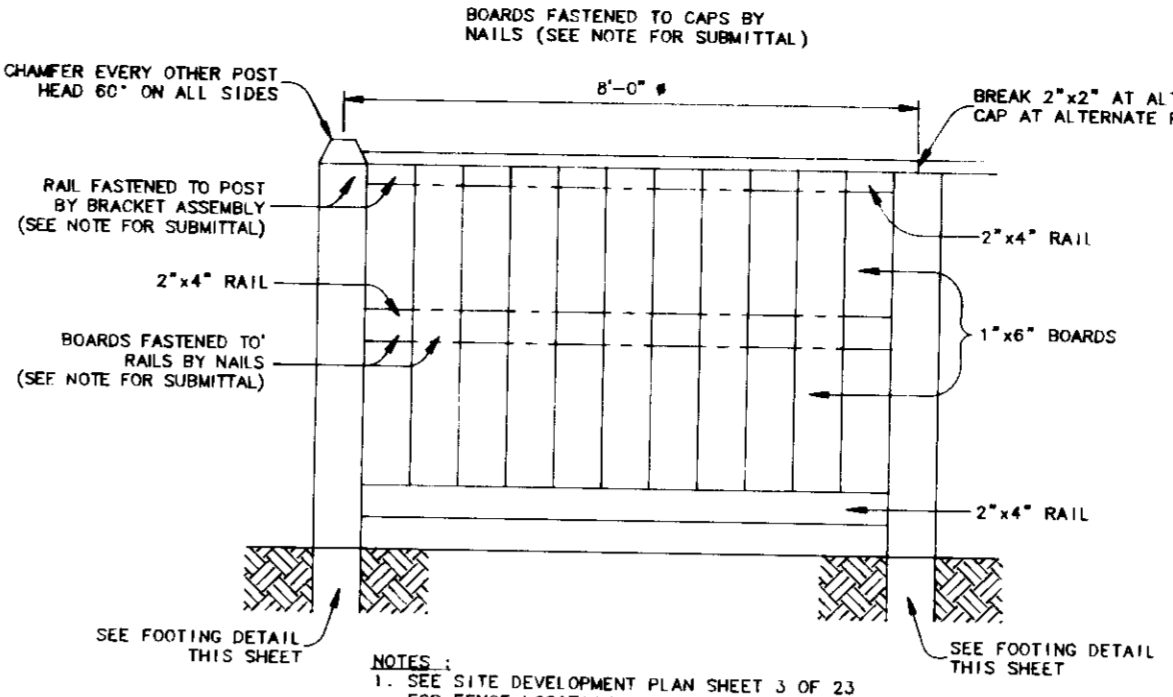
INLET DETAIL
 NO SCALE
 * TYPICAL ON ALL FOUR (4) SIDES OF INLET



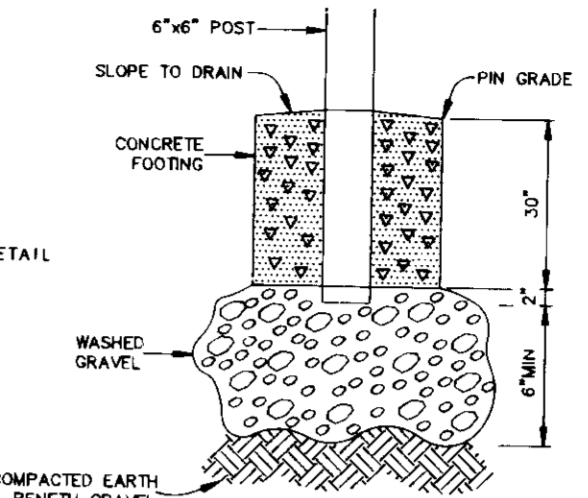
RETAINING WALL DETAIL
 NO SCALE



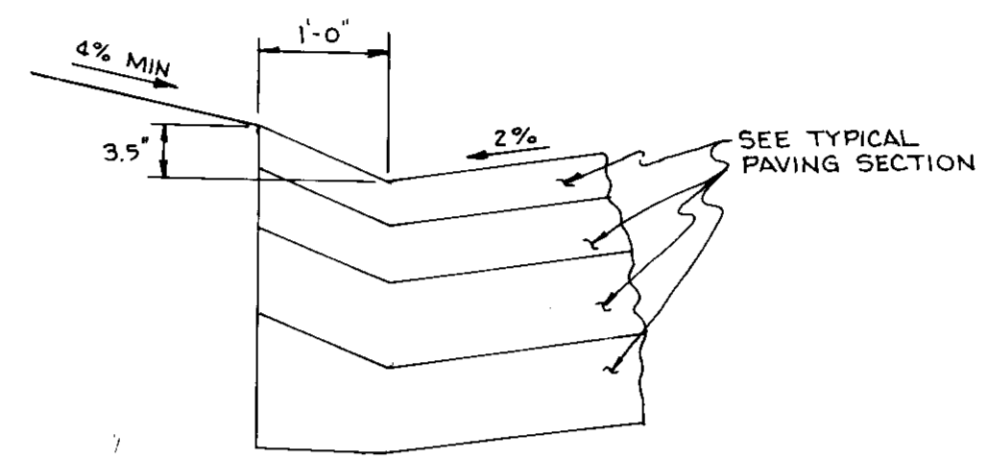
RETAINING WALL PROFILE
 SCALE: HOR. - 1"=20', VERT. - 1"=5'



NOISE BARRIER DETAIL
 NO SCALE

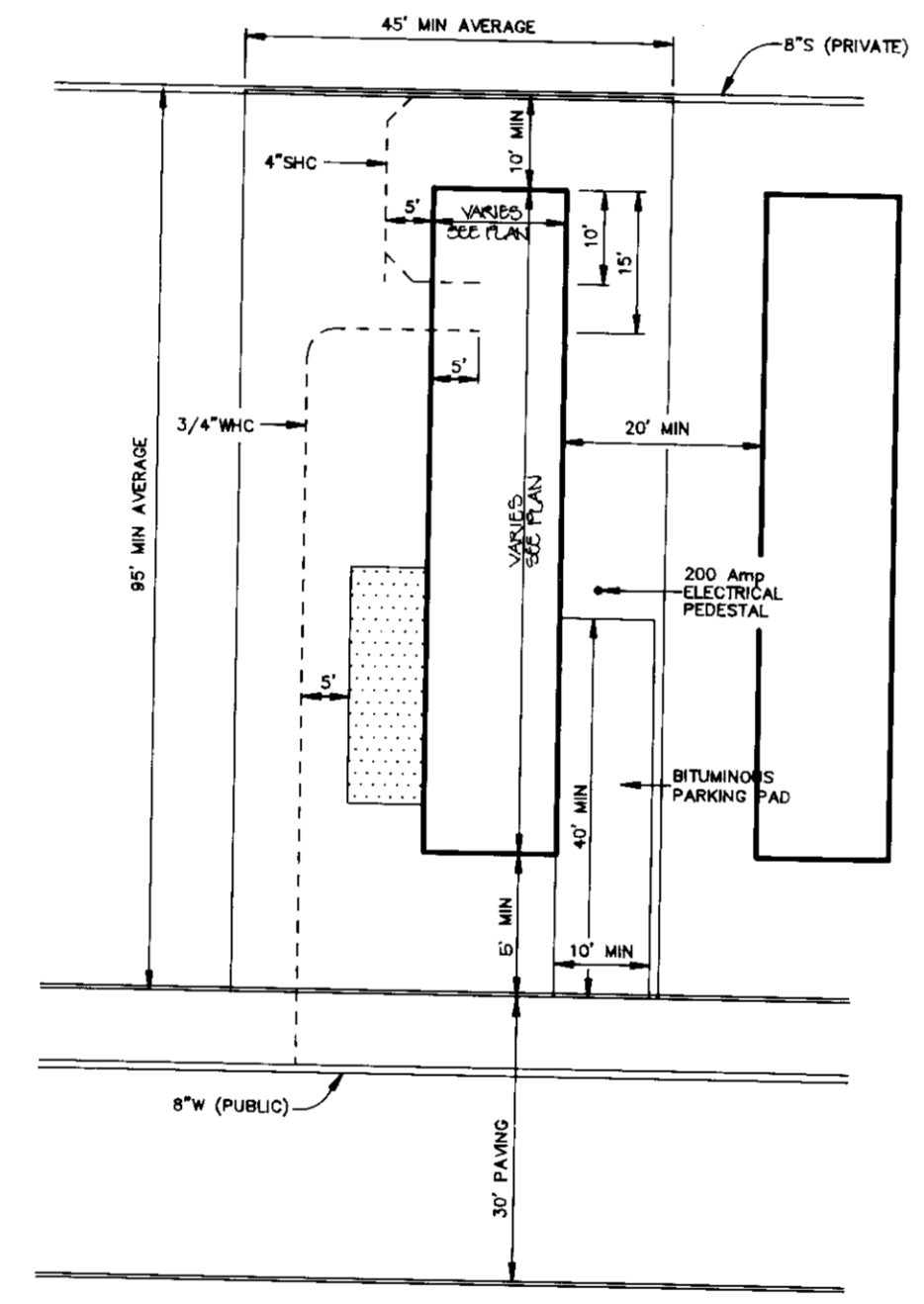


FOOTING DETAIL
 NO SCALE



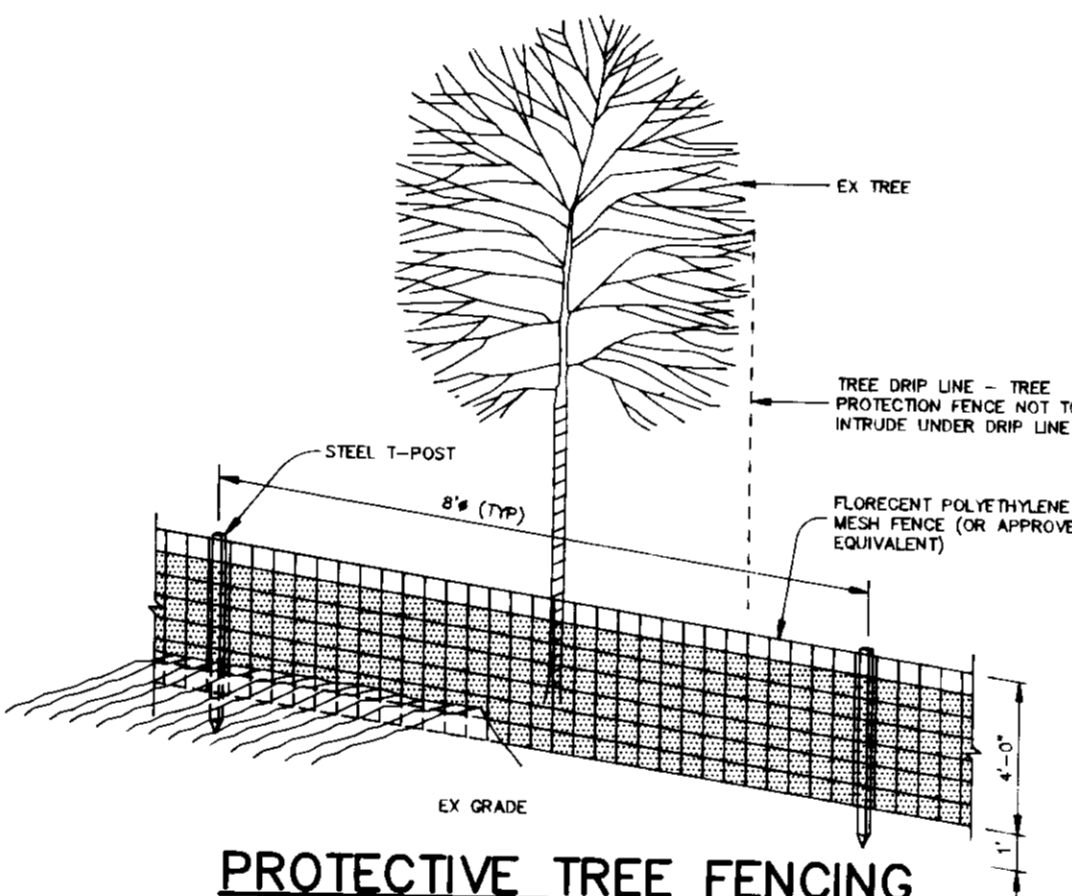
BITUMINOUS VALLEY GUTTER DETAIL
 NO SCALE

STRUCTURE SCHEDULE						
NO.	LOCATION	RIM ELEV.	INV. IN	INV. OUT	COMMENTS	
I-1	CL STA 0458.83 15' RIGHT	215.23	210.46	210.36	S TYPE SEE HO CO STD DTL SD-4.22	
I-2	CL STA 0448.17 15' LEFT	215.84	211.64	211.14	S TYPE SEE HO CO STD DTL SD-4.22	
I-3	CL STA 0448.17 15' RIGHT	215.84	211.88	211.78	S TYPE SEE HO CO STD DTL SD-4.22	
I-4	CL STA 1441.14 15' LEFT	216.54	212.83	212.68	S TYPE SEE HO CO STD DTL SD-4.22	
I-5	CL STA 1441.14 15' RIGHT	216.54	213.07	213.07	S TYPE SEE HO CO STD DTL SD-4.22	
I-6	CL STA 3419.55 15' LEFT	224.62	221.23	220.98	S TYPE SEE HO CO STD DTL SD-4.22	
I-7	CL STA 3419.55 15' RIGHT	224.62	221.37	221.37	S TYPE SEE HO CO STD DTL SD-4.22	
I-8	CL STA 0447.50 15' LEFT	231.23	226.98	226.48	S TYPE SEE HO CO STD DTL SD-4.22	
I-9	CL STA 0447.50 15' RIGHT	231.23	227.22	227.12	S TYPE SEE HO CO STD DTL SD-4.22	
I-10	CL STA 3402.04 15' LEFT	232.05	229.06	228.56	S TYPE SEE HO CO STD DTL SD-4.22	
I-11	CL STA 6485.22 15' LEFT	238.14	234.55	234.45	S TYPE SEE HO CO STD DTL SD-4.22	
I-12	CL STA 6485.22 15' RIGHT	238.14	234.54	234.69	S TYPE SEE HO CO STD DTL SD-4.22	
I-13	CL STA 8486.37 15' RIGHT	245.58	240.32	240.32	S TYPE SEE HO CO STD DTL SD-4.22	
I-14	CL STA 5403.45 15' RIGHT	232.69	228.45	228.45	S TYPE SEE HO CO STD DTL SD-4.22	
I-15	CL STA 2436.46 15' LEFT	234.06	229.20	228.70	S TYPE SEE HO CO STD DTL SD-4.22	
I-16	CL STA 1471.98 45.3' RIGHT	233.00	229.50	229.50	K TYPE SEE HO CO STD DTL SD-4.13	
I-17	CL STA 1477.88 15' LEFT	225.90	222.50	222.25	S TYPE SEE HO CO STD DTL SD-4.22	
I-18	CL STA 1477.88 15' RIGHT	225.90	222.64	222.64	S TYPE SEE HO CO STD DTL SD-4.22	
I-19	CL STA 7488.06 15' LEFT	220.62	217.26	217.01	S TYPE SEE HO CO STD DTL SD-4.22	
I-20	CL STA 7488.06 15' RIGHT	220.62	217.40	217.40	S TYPE SEE HO CO STD DTL SD-4.22	
E-1	CL STA 0448.00 30.4' RIGHT	210.25	---	---	24\"/>	



TYPICAL PAD CONFIGURATION
 NO SCALE

NOTE: AS PER 10-10-00 ZONING REGULATIONS FOR MOBILE HOME PARKS, A 50' MIN. DIMENSIONAL DISTANCE STRUCTURES IS REQUIRED. THERE ARE NO FRONT, REAR OR SIDE SETBACK REQUIREMENTS.



PROTECTIVE TREE FENCING ELEVATION DETAIL
 NO SCALE

TREE PRESERVATION PROCEDURES

1. THE EDGE OF WOODS TO BE PROTECTED WILL BE MARKED IN THE FIELD PER THE APPROVED SITE DEVELOPMENT PLAN PRIOR TO THE START OF CONSTRUCTION ACTIVITY.
2. PROTECTIVE FENCING SHALL BE INSTALLED AT THE DRIP LINE OF THE EDGE OF WOODS. ALL AREAS WITHIN PROTECTIVE FENCES ARE TO BE CONSIDERED OFF LIMITS FOR ANY CONSTRUCTION ACTIVITY.
3. PROTECTIVE FENCING WILL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR. THE GENERAL CONTRACTOR WILL AFFIX SIGNS TO THE FENCING INDICATING THAT THESE AREAS ARE TREE PRESERVATION AREAS. THE GENERAL CONTRACTOR SHALL TAKE UTMOST CARE TO PROTECT TREE ROOT SYSTEMS DURING THE CONSTRUCTION CYCLE. TREE ROOT SYSTEMS SHALL BE PROTECTED FROM SMOTHERING, FLOODING, EXCESSIVE WETTING FROM DE-WATERING OPERATIONS, OFF-SITE RUN OFF, SPILLAGE, AND DRAINAGE OF SOLUTIONS CONTAINING MATERIALS HAZARDOUS TO TREE ROOTS.
4. REMOVAL OF TOPSOIL OR ROOT MAT WITHIN THE TREE PRESERVATION AREA SHALL BE PROHIBITED. THE GENERAL CONTRACTOR SHALL BE PROHIBITED FROM PARKING ANY CONSTRUCTION EQUIPMENT, OR FROM STORING ANY BUILDING SUPPLIES OR EARTH STOCKPILES WITHIN THE TREE PRESERVATION AREAS.
5. FOOT TRAFFIC, AS WELL AS VEHICULAR TRAFFIC, IN THE TREE PRESERVATION AREAS SHALL BE KEPT TO A MINIMUM. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR ANY TREE DAMAGED OR DESTROYED WITHIN THE TREE PRESERVATION AREAS, WHETHER CAUSED BY THE CONTRACTOR, HIS AGENTS, EMPLOYEES, SUB-CONTRACTORS, OR LICENSEES.
6. CONSTRUCTION ACTIVITIES EXPRESSLY RESTRICTED WITHIN THE TREE PRESERVATION AREAS: PLACING BACKFILL IN PROTECTED AREAS; FELLING TREES INTO PROTECTED AREAS; DRIVING CONSTRUCTION EQUIPMENT INTO OR THROUGH PROTECTED AREAS; BURNING IN OR IN CLOSE PROXIMITY TO PROTECTED AREAS; STACKING OR STORING SUPPLIES IN PROTECTED AREAS; CONDUCTING TRENCHING OPERATIONS IN PROTECTED AREAS; GRADING BEYOND THE LIMITS OF DISTURBANCE.
7. THE GENERAL CONTRACTOR SHALL PROVIDE A WASH OUT AREA FOR CONCRETE TRUCKS ON SITE, WHICH WILL NOT DRAIN TOWARDS A PROTECTED AREA.
8. ALL TREES WHICH ARE NOT TO BE PRESERVED WITHIN FIFTY FEET OF ANY TREE PRESERVATION AREAS ARE TO BE REMOVED IN A MANNER THAT WILL NOT DAMAGE THOSE TREES THAT ARE DESIGNATED FOR PRESERVATION. IT IS HIGHLY RECOMMENDED THAT TREE STUMPS WITHIN THIS FIFTY FOOT AREA BE GROUND OUT WITH A STUMP GRINDING MACHINE TO MINIMIZE DAMAGE.

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

Joyce M. Boyd 8/5/94
 COUNTY HEALTH OFFICER DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.

Wesley V. D. Bayliss 8/17/94
 DIRECTOR DATE

Jim Summery 8/17/94
 CHIEF, DIVISION OF LAND DEVELOPMENT AND RESEARCH DATE

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

Alan M. Ferguson 7/28/94
 DIRECTOR, ACEN DATE

Robert Anderson-Calia 7/28/94
 CHIEF, BUREAU OF ENGINEERING CO THORNTON DATE

7.5.00 1 REV. FYP PAD CONFIGURATION DETAIL

DATE NO. REVISION

OWNER / DEVELOPER
 THE CARLYLE GROUP
 C/O RONALD H. SINGER
 9073 NEMO STREET
 LOS ANGELES, CA 90069

PROJECT
ALADDIN MOBILE HOME PARK
 PHASE II

AREA ZONED R-MH TAX MAP 43 PARCELS 12, 118
 ELECTION DISTRICT 6
 HOWARD COUNTY, MARYLAND

TITLE
CONSTRUCTION DETAILS

RIEMER MUEGGE & ASSOCIATES, INC.
 A Land Planning, Engineering and Consulting Firm
 8818 Centre Park Drive • Suite 200 • Columbia, Md 21045
 410-997-8900 FAX: 410-997-9282

7.8.94
 DATE

CHECKED BY: J.P.O.
 DESIGNED BY: W.C.W.
 DRAWN BY: W.C.W.

PROJECT NO: 77804
 DATE: JULY 8, 1994
 SCALE: AS SHOWN

Arthur E. Muegge
 ARTHUR E. MUEGGE 8/10/94
 DRAWING NO. 14 OF 21

PERMANENT SEEDING

Seedbed Preparation: Flat areas and slopes up to 3:1 slope shall be loose and staked to a depth of at least 3 inches. The top layer of soil shall be loosened by raking, disking or other acceptable means before seeding. Slopes steeper than 3:1 shall have the top 1 to 3 inches of soil loose and stable before seeding.

Soil Amendments: Use one of the following schedules.

Line and fertilizer according to soil tests. Line and fertilizer needs can be determined by a soil testing laboratory, such as the University of Maryland's Soil Testing Laboratory.

In lieu of soil test results, use one of the following schedules.

1) Preferred - Apply 2 tons per acre delimitic limestone (82 LBS/1000 SF) and 800 LBS per acre 10-10-10 fertilizer (4 LBS/1000 SF) before seeding. Horser or disc into upper three inches of soil. All line of seed should apply 400 LBS per acre 30-0-0 ureaform fertilizer (0.1 LBS/1000 SF).

2) Acceptable - Apply 2 tons per acre delimitic limestone (82 LBS/1000 SF) and 800 LBS per acre 10-10-10 fertilizer (4 LBS/1000 SF) before seeding. Horser or disc into upper three inches of soil. All line of seed should apply 400 LBS per acre 30-0-0 ureaform fertilizer (0.1 LBS/1000 SF).

On slopes steeper than 3:1 slope, the line and fertilizer shall be worked the best way possible. On sloping land, the final harrowing or disking operation should be on the contour wherever feasible. No attempt should be made to drop any disced area to make the soil surface smooth after disking.

Seeding: For the period March 1 thru April 30, and August 1 thru October 15. Seed with 80 LBS per acre (0.4) LBS/1000 SF of Kentucky 31 Tall Fescue.

For the period May 1 thru July 31. Seed with 80 LBS Kentucky 31 Tall Fescue per acre and 2 LBS per acre (0.5 LBS/1000 SF) of creeping lovegrass.

For the period October 1 thru February 28, protect site by: Applying 2 tons per acre of well anchored straw mulch and seed as soon as possible in the spring.

Option (2) Use seed. Option (3) Seed with mulch (1.4 LBS/1000 SF) Kentucky 31 Tall Fescue (0.5 LBS/1000 SF) and 2 LBS per acre (0.5 LBS/1000 SF) of creeping lovegrass.

Apply seed uniformly with a cylinder seeder, drill, outback seeder or hydroseeder (slurry includes seed and fertilizer) on a firm, moist seedbed. Maximum seeding depth should be 1/4 inch on clay soils and 1/2 inch on sandy soils, when using other than hydroseeder method of application. Note: If hydroseeding is used the seed and fertilizer in slurry shall be mixed on site and the seeding shall be immediate without interruption.

Mulching: See Mulching Specification.

Irrigation: If soil moisture is deficient, supply new seedlings with adequate water for plant growth until they are well established. If feasible, this is especially true when seedlings are made late in the planting season, in abnormally dry or non-irrigated, or on adverse sites.

Maintenance: Irrigation - If soil moisture becomes deficient, irrigate to prevent loss of stand of protective vegetation, if feasible.

Repairs - Impact of seeded areas for failure and make necessary repairs, improvements, and reseedings within the planting season, if possible.

1) If stand is inadequate for erosion control, overseed and fertilize using half of the rates originally applied.

2) If stand is over 60% ground cover, reseed following original line, fertilizer, seedbed preparation and seeding recommendations.

VEGETATIVE STABILIZATION WITH SOO

Definition: Stabilize sediment producing areas by establishing long-term stands of grass with SOO.

Purpose: To stabilize the soil, reduce damage from sediment and runoff to downstream areas, enhance natural beauty.

Conditions Where Practice Applies: On exposed soils where a quick vegetative cover is desired, on sites which can be maintained with ground equipment (2:1 or flatter slope).

Specifications: 1. Grass of turf grass seed shall be Maryland or Virginia State Certified, or Maryland or Virginia State approved seed.

2. Soil shall be moisture out to a uniform soil thickness of 3/4 inch, plus or minus 1/4 inch, at the time of sowing. Measurement for thickness shall exclude top growth and thatch.

3. Standard size sections of sod shall be strong enough to support their own weight and retain their size and shape when suspended vertically with a firm grasp on the upper 10 percent of the section.

4. Individual pieces of sod shall be cut out to the suppliers with and length. Maximum allowable deviation from standard widths and lengths shall be 5 percent. Broken pots and torn or crumpled sods will not be acceptable.

5. Sod shall not be harvested or transported until the moisture content (excessively dry or wet) may adversely affect the moisture content of the sod.

6. Sod shall be harvested, delivered and installed within a period of 36 hours. Sod not transported within this period shall be inspected and approved prior to its installation.

Site Preparation: Fertilizer and lime application rates shall be determined by soil tests provided by the contractor. Under unusual circumstances where there is insufficient time for a complete soil test, fertilizer and lime materials may be applied in amounts shown under B, below.

A. Prior to sodding, the surface shall be cleared of all trash, debris, and all roots, brush, wire and other objects that would interfere with planting, fertilizing and maintenance operations.

B. Where the soil is acid or composed of heavy clay, ground limestone shall be spread at the rate of 1/2 ton/acre or 100 pounds per 1,000 square feet. In all soils 1,000 square feet per acre or 25 pounds per square foot of 10-10-10 fertilizer or equivalent shall be uniformly applied and mixed into the top 3 inches of soil with the required lime.

C. All areas receiving sod shall be uniformly fine graded. Hard-packed earth shall be scarified prior to placement of sod.

Sod Installation: A. During periods of excessively high temperature the soil shall be lightly irrigated immediately prior to laying the sod.

B. The first row of sod shall be laid in a straight line with subsequent rows joined parallel and tightly and laid against each other. Lateral joints shall be staggered to promote more uniform growth and strength. Areas that will not be irrigated or overwatered and that all joints are butted tight in order to prevent wind which would cause drying of the roots.

C. On sloping areas where erosion may be a problem, sod shall be laid with the long edge parallel to the contour and with staggered joints. Secure the sod by tamping and pegging or other approved methods.

D. As sodding is completed in any one section, the entire area shall be rolled or tamped to insure solid contact of roots with the soil. Sod shall be watered immediately after rolling or tamping until the underside of the new sod and soil surface below the sod are thoroughly wet. The operations of laying, tamping and watering for any piece of sod shall be completed within eight hours.

Maintenance: A. In the absence of adequate rainfall, watering shall be performed daily or as often as necessary during the first week and in sufficient quantities to maintain moisture to a depth of 4 inches. Watering should be done during the head of the day to prevent wilting.

B. After the first week, sod shall be watered as necessary to maintain adequate moisture and insure establishment, and as directed by the contractor.

C. First mowing should not be attempted until soil is firmly rooted. No more than 1/3 of the grass leaf shall be removed by the initial cutting or subsequent cuttings. Grass height shall be maintained between 2 and 3 inches unless otherwise specified.

D. Maintenance of established sod should follow specifications outlined in table.

Annual Maintenance Fertilization for Permanent Sod Use Soil Test Recommendations or Rates Shown Below

Seeding Mixtures

*Ky-31 tall fescue Kentucky bluegrass Red Fescue

Bermudagrass Zoysia

Seeding Mixtures Slowly Available Nitrogen

*Equivalent amounts of fertilizer may be applied with other formulations.

SEDIMENT CONTROL NOTES

1. A minimum of 24 hours notice must be given to the Howard County Office of Inspections and Permits prior to the start of any construction (062-2437).

2. All vegetative and structural provisions are to be installed according to the provisions of this plan and are to be in accordance with the 1985 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL AND EROSION CONTROL.

3. Following initial soil disturbance or re disturbance, permanent or temporary stabilization shall be completed within: a) 7 calendar days for all permanent stabilization structures, dikes, erosion control structures and all slopes greater than 3:1, b) 14 days for any other disturbed or graded areas on the project site.

4. All sediment traps/basins shown must be in accordance with Vol. 1, Chapter 12, of the MANUAL Storm Drainages.

5. All disturbed areas must be stabilized within the time period specified above in accordance with the 1985 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL AND EROSION CONTROL, permanent seedings (Sec. 51), and (Sec. 54), temporary seedings (Sec. 50) and (Sec. 52). The contractor shall stabilize with mulch alone on only by hand when recommended seeding rates do not allow for proper permission and establishment of grasses.

6. All sediment control structures are to remain in place and are to be maintained in operative condition until permission for their removal has been obtained from the Howard County Sediment Control Inspector.

7. Site Analysis: Total Area of Site 15,436 acres Area Disturbed 13,199 acres Area to be seeded or paved 7,811 acres Area to be vegetatively stabilized 5,388 acres Total Cut 40,352 cu. yds. Total Fill 41,128 cu. yds.

8. Any sediment control practice which is disturbed by grading activity for placement of utilities must be repaired on the same day of disturbance.

9. Additional sediment controls must be provided, if deemed necessary by the Howard County Department of Public Works Sediment Control Inspector.

10. Site grading will begin only after all permanent sediment control measures have been installed and are in a functioning condition.

11. Sediment will be removed from traps when its depth reaches clean out elevation shown on the plans.

12. Cut and fill quantities provided under site analysis do not represent bid quantities. These quantities do not distinguish between borrow, structure fill or embankment material, nor do they reflect consideration of undercutting or removal of unstable material. The contractor shall furnish a bid sheet with site conditions which may affect the work.

13. Permanent Vegetation - See standards for permanent vegetative cover, and permanent stabilization with seed. Existing trees or large shrubs may offer valuable protection if left in place.

14. Topsoiling - Cover surface with less erosive soil materials. See standards for topsoiling.

15. Stone - Cover surface with crushed stone or coarse gravel.

16. Agriculture Handbook 346. Wind Erosion Forces in the United States and Their Use in Predicting Soil Loss.

17. Agriculture Information Bulletin 354. How to Control Wind Erosion, USDA-ARS.

STANDARD AND SPECIFICATIONS FOR DUST CONTROL

Definition: Controlling dust blowing and movement on construction sites and roads.

Purpose: To prevent blowing and movement of dust from exposed soil surfaces, reduce on and off-site damage to areas subject to dust blowing and movement and provide a safe and healthful environment.

Conditions Where Practice Applies: This practice is applicable to areas subject to dust blowing and movement where on and off-site damage is likely without treatment.

Specifications: Temporary Methods: A. Mulches - See standards for critical area stabilization with mulches only. Chemical or wood cellulose fiber binders may be used instead of mulch. Mulch shall be applied to and maintained in place until vegetation is established.

B. Vegetative Cover - See standards for temporary vegetative cover.

C. Spray-on Adhesives - On mineral soils (not effective on much soils). Keep traffic off these areas.

4. Site Analysis: Water Dilution Type of Nozzle Apply Gallons/Ac. 1. 12/12/12 Coarse Spray 1,200 2. 12/12/12 Fine Spray 235 3. 12/12/12 Fine Spray 300

5. Fertilizer - To roughen surface and bring clods to the surface. This is an emergency measure which should be used before soil blowing starts. Begin blowing on windward side of site. Chisel-type plow spaced about 12' apart, spring-toothed harrow, and similar plows are examples of equipment which may produce the desired effect.

6. Irrigation - This is generally done on an emergency treatment. Site is irrigated with water until the surface is moist. Repeat as needed.

7. Barriers - Solid board fences, snow fences, burlap fences, erode walls, bales of hay and similar material can be used to control air currents and soil blowing. Barriers placed at right angles to prevailing currents at intervals of about 10 times their height are effective in controlling soil blowing.

8. Calcium Chloride - Apply at rate that will keep surface moist. May need retreatment.

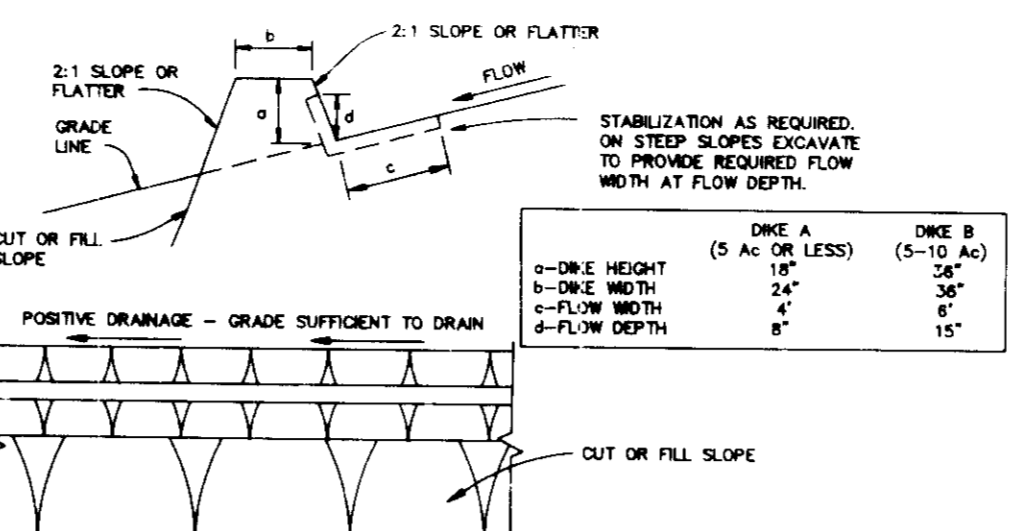
Permanent Methods: A. Permanent Vegetation - See standards for permanent vegetative cover, and permanent stabilization with seed. Existing trees or large shrubs may offer valuable protection if left in place.

B. Topsoiling - Cover surface with less erosive soil materials. See standards for topsoiling.

C. Stone - Cover surface with crushed stone or coarse gravel.

1. Agriculture Handbook 346. Wind Erosion Forces in the United States and Their Use in Predicting Soil Loss.

2. Agriculture Information Bulletin 354. How to Control Wind Erosion, USDA-ARS.



CONSTRUCTION SPECIFICATIONS

1. ALL DRES SHALL BE COMPACTED BY EARTH-MOVING EQUIPMENT.

2. ALL DRES SHALL HAVE POSITIVE DRAINAGE TO AN OUTLET.

3. TOP NOTCH MAY BE WIDER AND SLOPE MAY BE FLATTER IF DESIRED TO FACILITATE CROSSING BY CONSTRUCTION TRAFFIC.

4. FIELD LOCATION SHOULD BE ADJUSTED AS NEEDED TO UTILIZE A STABILIZED SAFE OUTLET.

5. EARTH DRES SHALL HAVE AN OUTLET THAT FUNCTIONS WITH A MINIMUM OF EROSION. RUNOFF SHALL BE CONVERTED TO A SEDIMENT TRAPPING DEVICE SUCH AS A SEDIMENT TRAP OR SEDIMENT BASIN WHERE EITHER THE ONE CHANNEL OR THE DRAINAGE AREA ABOVE THE ONE ARE NOT ADEQUATELY STABILIZED.

6. STABILIZATION SHALL BE: (A) IN ACCORDANCE WITH STANDARD SPECIFICATIONS FOR SEED AND STRAW MULCH OR STRAW MULCH IF NOT IN SEEDING SEASON; (B) FLOW CHANNEL AS PER THE CHART BELOW.

7. RPPRP TO BE 4-8 INCHES IN A LAYER AT LEAST 8 INCHES THICKNESS AND PRESSED INTO THE SOIL WITH CONSTRUCTION EQUIPMENT.

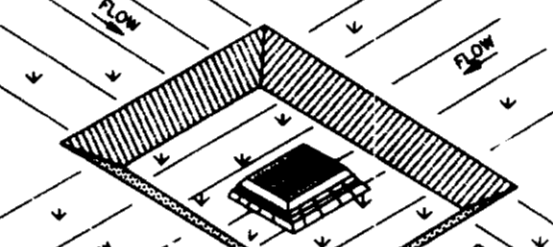
8. RPPRP TO BE 4-8 INCHES IN A LAYER AT LEAST 8 INCHES THICKNESS AND PRESSED INTO THE SOIL WITH CONSTRUCTION EQUIPMENT.

9. APPROVED EQUIVALENTS CAN BE SUBSTITUTED FOR ANY OF THE ABOVE MATERIALS.

10. PERIODIC INSPECTION AND REQUIRED MAINTENANCE MUST BE PROVIDED AFTER EACH RAIN EVENT.

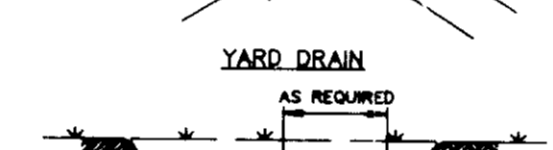
EARTH DIKE

NO SCALE



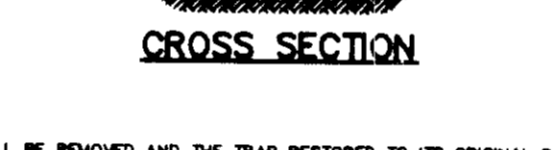
PERSPECTIVE VIEW

NO SCALE



CROSS SECTION

NO SCALE



CONSTRUCTION NOTES FOR FABRICATED SILT FENCE

1. When wire fence is fastened securely to fence posts with wire ties or staples.

2. Filter cloth to be fastened to fence posts with wire ties or staples every 24\"/>

3. When top of filter cloth is not at least 2 inches above ground level, it shall be overlapped by 6 inches and folded.

4. Maintenance shall be performed as needed and material removed when "sedges" develop in the filter fence.

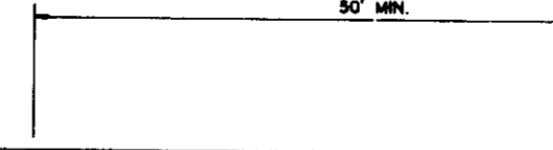
POSTS: Steel, either T or U type or 2\"/>

FORCE: When wire is 1/4\"/>

PREPARED UNIT: Geotex, Enviroflex or approved equal.

SILT FENCE DETAIL

NO SCALE



CONSTRUCTION SPECIFICATIONS

1. ALL TEMPORARY SWALES SHALL HAVE UNINTERRUPTED POSITIVE GRADE TO AN OUTLET.

2. DIVERTED RUNOFF FROM A DISTURBED AREA SHALL BE CONVERTED TO A SEDIMENT TRAPPING DEVICE.

3. DIVERTED RUNOFF FROM AN UNDISTURBED AREA SHALL OUTLET DIRECTLY INTO AN UNDISTURBED STABILIZED AREA AT A NON-EROSIVE VELOCITY.

4. ALL TREES, BRUSH, STUMPS, OBSTRUCTIONS, AND OTHER OBSTRUCTIONABLE MATERIAL SHALL BE REMOVED AND DISPOSED OF SO AS NOT TO INTERFERE WITH THE PROPER FUNCTIONING OF THE SWALE.

5. THE SWALE SHALL BE EXCAVATED OR SHAPED TO LINE, GRADE, AND CROSS SECTION AS REQUIRED TO MEET THE CRITERIA SPECIFIED HEREIN AND BE FREE OF BANK PROJECTIONS OR OTHER IRREGULARITIES WHICH WILL IMPAIR NORMAL FLOW.

6. FILLS SHALL BE COMPACTED BY EARTH MOVING EQUIPMENT.

7. ALL EARTH REMOVED AND NOT NEEDED ON CONSTRUCTION SHALL BE PLACED SO THAT IT WILL NOT INTERFERE WITH THE FUNCTIONING OF THE SWALE.

8. STABILIZATION SHALL BE AS PER THE CHART BELOW:

TEMPORARY SWALE

NO SCALE



SEQUENCE OF CONSTRUCTION

- 1. OBTAIN GRADING PERMIT.
- 2. INSTALL S.C.E.E. AT ENTRANCE OF NANCY DRIVE AND USE TEMPORARY GUARDRAIL TO BLOCK VISTA ROAD AND HILLTOP ROAD TO CONSTRUCTION TRAFFIC. (1 DAY)
- 3. INSTALL EARTH DIKES, SILT FENCES AND INLET SEDIMENT TRAPS #1 AND #2. FOR TRAP #1 THE STRUCTURE AT I-3 IS TO BE BUILT TO 1' OF THE FINAL GRATE ELEVATION FOR THE PURPOSE OF SEDIMENT CONTROL. (2 DAYS)
- 4. PERFORM GRADING FOR TEMPORARY S.W.M.F. AND SEDIMENT BASIN AND INSTALL SPILLWAY. PLEASE NOTE THAT GRADING FOR THE FOREBAYS IS EXCLUDED FOR THE TEMPORARY S.W.M.F. (1 WEEK)
- 5. PERFORM ROUGH GRADING FOR ROADS AND ALL OTHER AREAS OF SITE. INSTALL TEMPORARY SWALE LEADING TO THE SEDIMENT BASIN AND MAINTAIN POSITIVE DRAINAGE UNTIL SUCH TIME THAT INLETS I-17 AND I-18 ARE FUNCTIONING AND HAVE HAD STONE FILTER INLET PROTECTION INSTALLED. (3 WEEKS)
- 6. INSTALL STORM DRAINS (EXCEPT FROM I-5 TO I-3 AND FROM I-20 TO I-19) INCLUDING STORM FILTER INLET PROTECTION AS SHOWN ON PLAN. INSTALL ALL OTHER UTILITIES, INCLUDING WATER AND SEWER. (2 WEEKS)
- 7. STABILIZE ALL AREAS IN ACCORDANCE WITH THE TEMPORARY SEEDING NOTES. (1 DAY)
- 8. STABILIZE ROAD AREAS BY INSTALLING FIRST COURSE OF ASPHALT PAVING. (1 DAY)
- 9. UPON PERMISSION OF THE HOWARD COUNTY DEPARTMENT OF LICENCES AND PERMITS SEDIMENT CONTROL INSPECTOR REMOVE INLET SEDIMENT TRAPS #1 AND #2 AND COMPLETE GRADING AND PAVING IN THOSE AREAS. FLUSH ALL STORM DRAINS TO CLEAR ANY SEDIMENT AND INSTALL REMAINING STORM DRAINS FROM I-5 TO I-3 AND FROM I-20 TO I-19. COMPLETE THE INLET STRUCTURE AT I-3. (1 DAY)
- 10. UPON PERMISSION OF THE HOWARD COUNTY DEPARTMENT OF LICENCES AND PERMITS SEDIMENT CONTROL INSPECTOR REMOVE THE SEDIMENT BASIN AND CONVERT TO PERMANENT S.W.M.F. (INCLUDING FOREBAYS), FLUSH THE SPILLWAY TO CLEAR ANY SEDIMENT. (2 DAYS)
- 11. STABILIZE ALL AREAS IN ACCORDANCE WITH THE PERMANENT SEEDING NOTES. (1 DAY)
- 12. UPON PERMISSION OF THE HOWARD COUNTY DEPARTMENT OF LICENCES AND PERMITS SEDIMENT CONTROL INSPECTOR REMOVE ALL REMAINING SEDIMENT CONTROL DEVICES AND STABILIZE DISTURBED AREAS IN ACCORDANCE WITH THE PERMANENT SEEDING NOTES. (1 DAY)

BY THE DEVELOPER:

I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN, AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTIONS BY THE HOWARD SOIL CONSERVATION DISTRICT.

Developer Signature: Aladdin Village Mobile Home Park, Date: 7/5/94

BY THE ENGINEER:

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.

Engineer Signature: John R. Robertson, Date: 8/2/94

THESE PLANS HAVE BEEN REVIEWED FOR THE HOWARD SOIL CONSERVATION DISTRICT AND MEET THE TECHNICAL REQUIREMENTS FOR SOIL EROSION AND SEDIMENT CONTROL.

U.S. SOIL CONSERVATION SERVICE, Date: 8/15/94

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

Howard County Health Department Approval: John R. Robertson, Date: 8/2/94

County Health Officer Approval: Joyce M. Boyd, Date: 8/5/94

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.

Director Approval: John J. M. Long, Date: 8/12/94

Chief of Division Approval: John J. M. Long, Date: 8/17/94

APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS. Director Approval: John M. Deegan, Date: 7/26/94

Chief of Bureau Approval: Charles R. Anderson, Date: 7/20/94

DATE NO. REVISION

OWNER / DEVELOPER: THE CARLYLE GROUP, C/O RONALD H. SINGER, 9073 NEMO STREET, LOS ANGELES, CA 90069

PROJECT: ALADDIN MOBILE HOME PARK PHASE II

AREA: ZONED R-MH, TAX MAP 43, PARCELS 12, 118, ELECTION DISTRICT 6, HOWARD COUNTY, MARYLAND

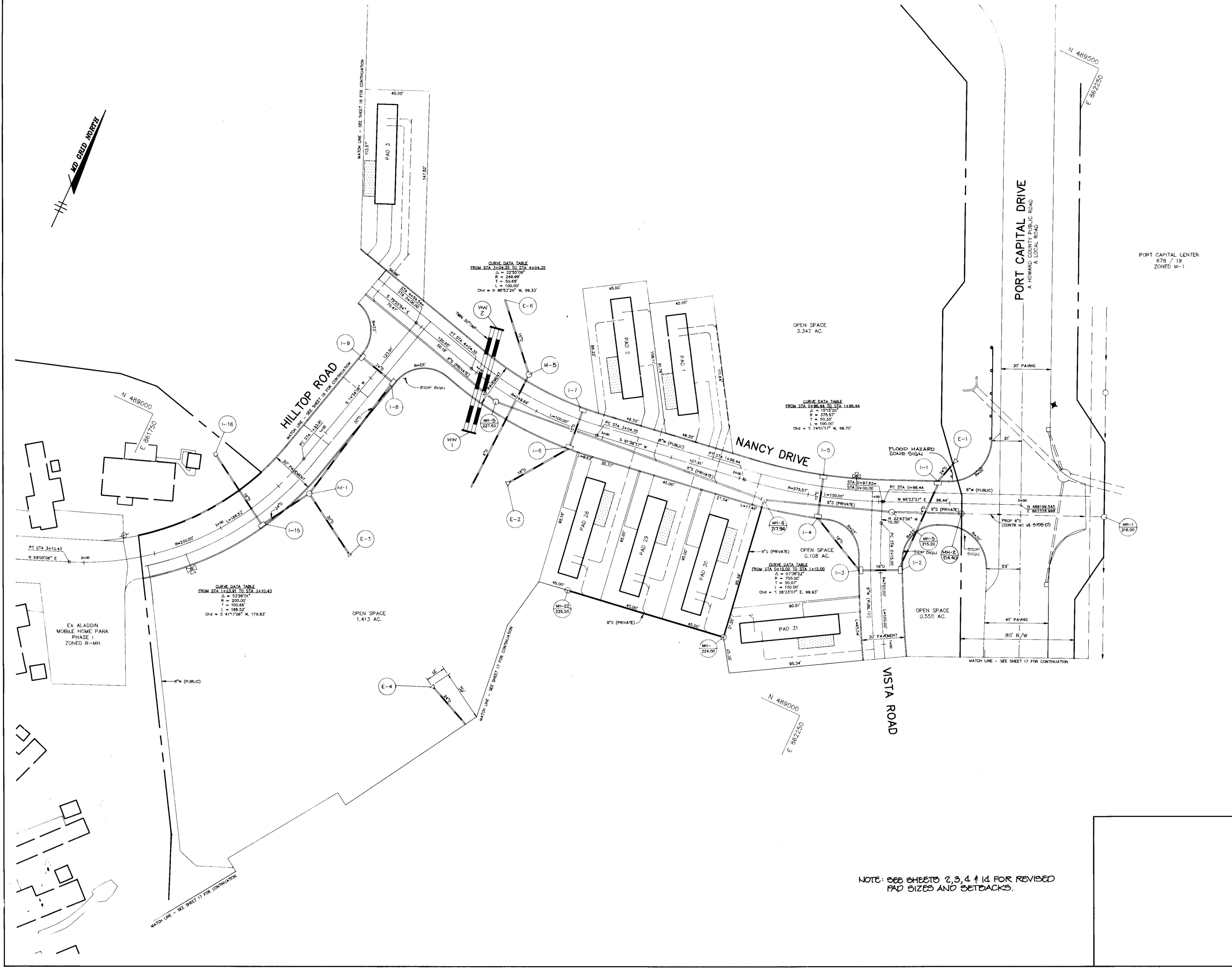
TITLE: SEDIMENT CONTROL DETAILS

RIEMER MUEGGE & ASSOCIATES, INC. A Land Planning, Engineering and Consulting Firm, 8818 Centre Park Drive, Suite 200, Columbia, Md 21045, 410-997-8900, FAX: 410-997-9282

CHECKED BY: J.P.O. DATE

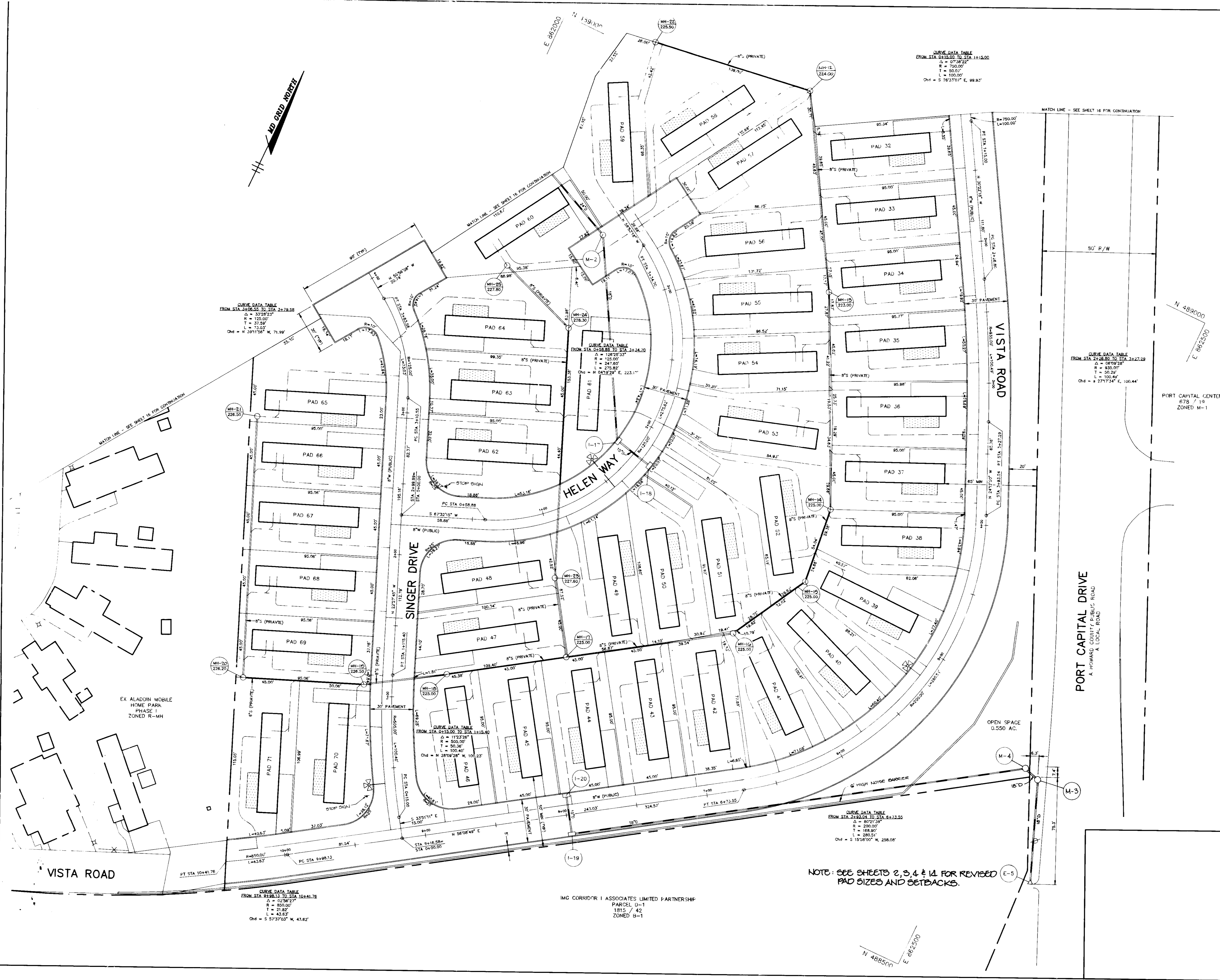
DESIGNED BY: W.C.W. DRAWN BY: W.C.W.

PROJECT NO.: 77804 DATE: JULY 8, 1994 SCALE: AS SHOWN DRAWING NO. 15 OF 21



NOTE: SEE SHEETS 2, 3, 4 & 14 FOR REVISED PAD SIZES AND SETBACKS.

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT.	
<i>James M. Boyd and per Jim</i>	8/5/94
COUNTY HEALTH OFFICER	DATE
APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.	
<i>Mark J. DeWalt</i>	8/12/94
DIRECTOR	DATE
<i>Gina Summary</i>	3/17/94
CHIEF, DIVISION OF LAND DEVELOPMENT AND RESEARCH	DATE
APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS.	
<i>Alan M. Duggan</i>	7/21/94
DIRECTOR, ACRI	DATE
<i>Elizabeth Anderson-Delia</i>	7/20/94
CHIEF, BUREAU OF ENGINEERING	DATE
DATE NO.	REVISION
OWNER / DEVELOPER	
THE CARLYLE GROUP C/O RONALD H. SINGER 9073 NEMO STREET LOS ANGELES, CA 90069	
PROJECT ALADDIN MOBILE HOME PARK PHASE I	
AREA ZONED R-MH TAX MAP 47 PARCELS 12, 118 ELECTION DISTRICT F HOWARD COUNTY, MARYLAND	
TITLE DIMENSION PLAN	
RIEMER MUEGGE & ASSOCIATES, INC. A Land Planning, Engineering and Consulting Firm 8818 Centre Park Drive • Suite 200 • Columbia, Md 21045 410-997-8900 FAX: 410-997-9282	
7.8.94 DATE	CHECKED BY: J.P.O.
	DESIGNED BY: W.C.W.
	DRAWN BY: W.C.W.
	PROJECT NO: 77804
	DATE: JULY 6, 1994
	SCALE: 1"=30'
<i>Arthur E. Muegge</i> ARTHUR E. MUEGGE	DRAWING NO. 16 OF 21



CURVE DATA TABLE
 FROM STA. 226.50 TO STA. 227.58
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 R = 125.00'
 T = 31.50'
 L = 73.00'
 Chd = N 39°15'42\"/>

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 T = 247.60'
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 FROM STA. 224.00 TO STA. 225.00
 Δ = 0°36'32\"/>

CURVE DATA TABLE
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 T = 50.29'
 L = 100.44'
 Chd = S 27°13'34\"/>

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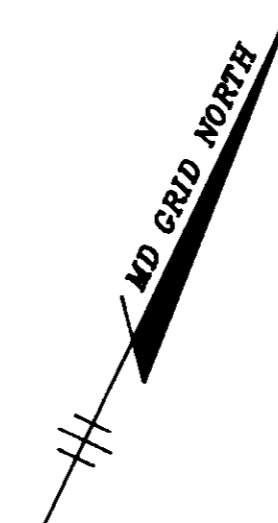
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 FROM STA. 218.13 TO STA. 218.178
 Δ = 0°26'27\"/>

NOTE: SEE SHEETS 2, 3, 4 & 14 FOR REVISED PAD SIZES AND SETBACKS.

IMG CORRIDOR I ASSOCIATES LIMITED PARTNERSHIP
 PARCEL D-1
 1815 / 42
 ZONED B-1

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS HOWARD COUNTY HEALTH DEPARTMENT.	
<i>Joyce M. Boyd</i>	8/5/94
COUNTY HEALTH OFFICER	DATE
APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.	
<i>Frank S. J. Langley</i>	8/12/94
DIRECTOR	DATE
<i>Gina Jaramany</i>	9/17/94
CHIEF, DIVISION OF LAND DEVELOPMENT AND RESEARCH	DATE
APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS.	
<i>John M. Duggan</i>	7/24/94
DIRECTOR, ASSESSOR	DATE
<i>Charles B. Anderson</i>	7/20/94
CHIEF, BUREAU OF ENGINEERING	DATE
DATE NO.	REVISION
OWNER / DEVELOPER	
THE CARLYLE GROUP C/O RONALD H. SINGER 9073 NEMO STREET LOS ANGELES, CA 90049	
PROJECT ALADDIN MOBILE HOME PARK PHASE II	
AREA ZONED R-MH TAX MAP 43 PARCELS 12, 119 ELECTION DISTRICT 6 HOWARD COUNTY, MARYLAND	
TITLE DIMENSION PLAN	
RIEMER MUEGGE & ASSOCIATES, INC. A Land Planning, Engineering and Consulting Firm 8818 Centre Park Drive • Suite 200 • Columbia, Md 21045 410-997-8900 FAX: 410-997-9282	
DATE 7.2.94	CHECKED BY: J.P.O.
	DESIGNED BY: W.C.W.
	DRAWN BY: W.C.W.
	PROJECT NO: 77804
	DATE: JULY 8, 1994
	SCALE: 1"=30'
<i>Arthur E. Muegge</i>	DRAWING NO. 17 OF 21
ARTHUR E. MUEGGE	

IMJ JURRIK ASSOCIATES
1315 / 40
ZONING R-2



PORT CAPITAL DRIVE

OPEN SPACE
3.342 AC.

NANCY DRIVE

HILLTOP ROAD

PARCEL 4
ZONED R-MH

EX ALADDIN MOBILE HOME PARK
PHASE 1
ZONED R-MH

NOTE: SEE SHEETS 2, 3, 4 & 14 FOR
REVISED PAD SIZES AND
SETBACKS.

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

Joyce M. Boyd 8/5/94
COUNTY HEALTH OFFICER DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND
ZONING.

Marsha J. Langley 7/17/94
DIRECTOR DATE

Chia Strumanyi 8/17/94
CHIEF, DIVISION OF LAND
DEVELOPMENT AND RESEARCH DATE

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

Alan M. Ferguson 7/26/94
DIRECTOR, ADMIN DATE

Elizabeth Anderson-Lynn 7/22/94
CHIEF, BUREAU OF ENGINEERING DATE

DATE NO. REVISION

OWNER / DEVELOPER

THE CAMPUS GROUP
200 PENNACU H. SUITE
300 NEW STREET
FUS ALLEGES, GA 30429

PROJECT
ALADDIN MOBILE HOME PARK
PHASE 1

AREA ZONED R-MH TAX MAP 43 PARCELS 12, 13
ELECTION DISTRICT 2
HOWARD COUNTY, MARYLAND

TITLE
DIMENSION PLAN

RIEMER MUEGGE & ASSOCIATES, INC.
A Land Planning, Engineering and Consulting Firm
8818 Centre Park Drive • Suite 200 • Columbia, Md 21045
410-997-8900 FAX: 410-997-9282

7.8.94
DATE

CHECKED BY: J.P.O.

DESIGNED BY: W.C.W.

DRAWN BY: W.C.W.

PROJECT NO: 77804

DATE: JULY 8, 1994

SCALE: 1"=30'

DRAWING NO. 18 OF 21

ARTHUR E. MUEGGE 7/8/94

NOTED: 1. THIS PLAN HAS BEEN PREPARED IN ACCORDANCE WITH THE PROVISIONS OF SECTION 10-122 OF THE HOWARD COUNTY CODE AND THE LANDSCAPE MANUAL.
2. FINANCIAL SURETY FOR THE REQUIRED LANDSCAPING HAS BEEN POSTED AS PART OF THE DWP DEVELOPER AGREEMENT IN THE AMOUNT OF \$6000.00.

PLANT LIST

QTY	KEY	BOTANICAL NAME Common Name	SIZE	REMARKS
20	AG	ABELIA GRANDIFLORA Glossy Abelia	30"-36" Ht.	3 1/2' O.C.
6	AR	ACER RUBRUM 'OCTOBER GLORY' October Glory Red Maple	2 1/2"-3" Cal. 12'-14' Ht.	B & B Full Crown
7	CC	CRATAEGUS CRUSGALLI 'INERMIS' Thornless Hawthorn	8'-10' Ht.	B & B
65	CS	COTONEASTER SALICIFOLIUS 'REPENS' Willowleaf Cotoneaster	15"-18" Spread	3' O.C.
250	JC	JUNIPERUS CHINENSIS 'SEA GREEN' Sea Green Juniper	24"-30" Ht.	3' O.C.
14	LS	LIQUIDAMBAR STYRACIFLUA Sweetgum	2 1/2"-3" Cal. 12'-14' Ht.	B & B Full Crown
10	PS	PINUS STROBUS White Pine	8'-10' Ht.	B & B
15	PY	PRUNUS YEDOENSIS Yoshino Cherry	8'-10' Ht.	B & B
24	QR	QUERCUS RUBRA Red Oak	2 1/2"-3" Cal. 12'-14' Ht.	B & B Full Crown
100	SB	SPIRAEA BUNALDA 'ANTHONY WATERER' Anthony Waterer Spirea	18"-24" Ht.	3' O.C.
62	VR	VIBURNUM RHYTIDOPHYLLUM 'WILLOWOOD' Willowood Leatherleaf Viburnum	30"-36" Ht.	

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

Joyce M. Boyd per *Jim* 8/5/94
COUNTY HEALTH OFFICER DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND
ZONING.

Parish V. Langli 8/12/94
DIRECTOR DATE

Anna Summons 8/17/94
CHIEF, DIVISION OF LAND
DEVELOPMENT AND RESEARCH DATE

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

Ab M. Ingram 7/26/94
DIRECTOR DATE

Charles H. Anderson 7/26/94
CHIEF, BUREAU OF ENGINEERING Co. 7104M DATE

DATE NO. REVISION

OWNER / DEVELOPER

THE CARLYLE GROUP
C/O RONALD H. SINGER
9073 NEMO STREET
LOS ANGELES, CA 90069

PROJECT
ALADDIN MOBILE HOME PARK
PHASE II

AREA ZONED R-MH TAX MAP 43 PARCELS 12, 11B
ELECTION DISTRICT 6
HOWARD COUNTY, MARYLAND

TITLE
LANDSCAPE PLAN

RIEMER MUEGGE & ASSOCIATES, INC.
A Land Planning, Engineering and Consulting Firm
8818 Centre Park Drive • Suite 200 • Columbia, Md 21045
410-997-8900 FAX: 410-997-9282

7-8-94
DATE

DESIGNED BY: Z.K.

DRAWN BY: Z.K.

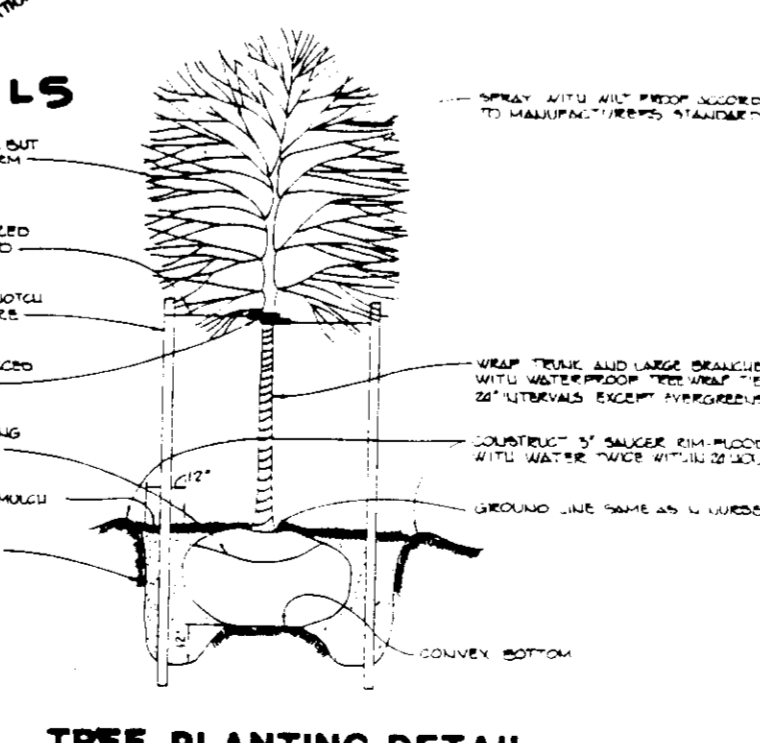
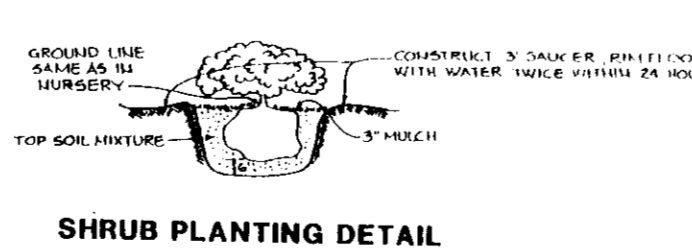
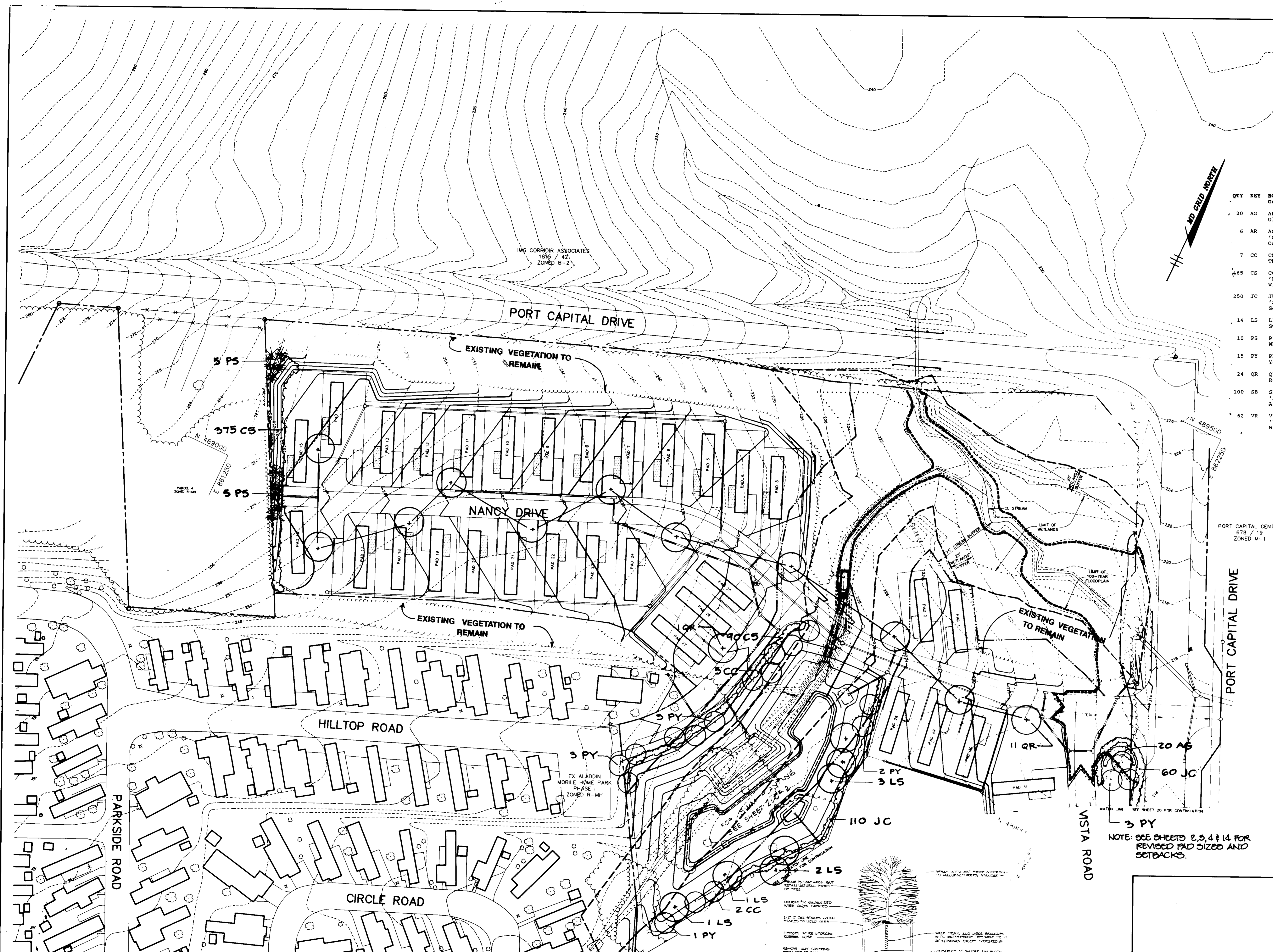
PROJECT NO: 77804

DATE: JULY 6, 1994

SCALE: 1"=50'

DRAWING NO. 19 OF 21

Melanie Muegge
MELANIE MUEGGE #501



**SCHEDULE A
PERIMETER LANDSCAPE EDGE**

Category	Adjacent to Roadways		Adjacent to Perimeter Properties	
	B	A	A	S
Linear Feet of Roadway Frontage/Perimeter	Fort Capital Dr. N & E Edges 1895	W Edge 310		S Edge 575
Credit for Existing Vegetation (Yes) No, Linear Feet (Describe below if needed)	1285			
Credit for Wall/Fence/Berm (Yes) No, Linear Feet (Describe below if needed)	110			575
Number of Plants Required	500 LF			
Shade Trees	1:50 = 10	1:60 = 5		-
Evergreen Trees	1:40 = 13			
Shrubs				
Number of Plants Provided				
Shade Trees	13			
Evergreen Trees (100:1 subc)	3			5
Other Trees (2:1 substitution) & Shrubs (10:1 substitution) 237	24			
(Describe plant substitution credits below if needed)				

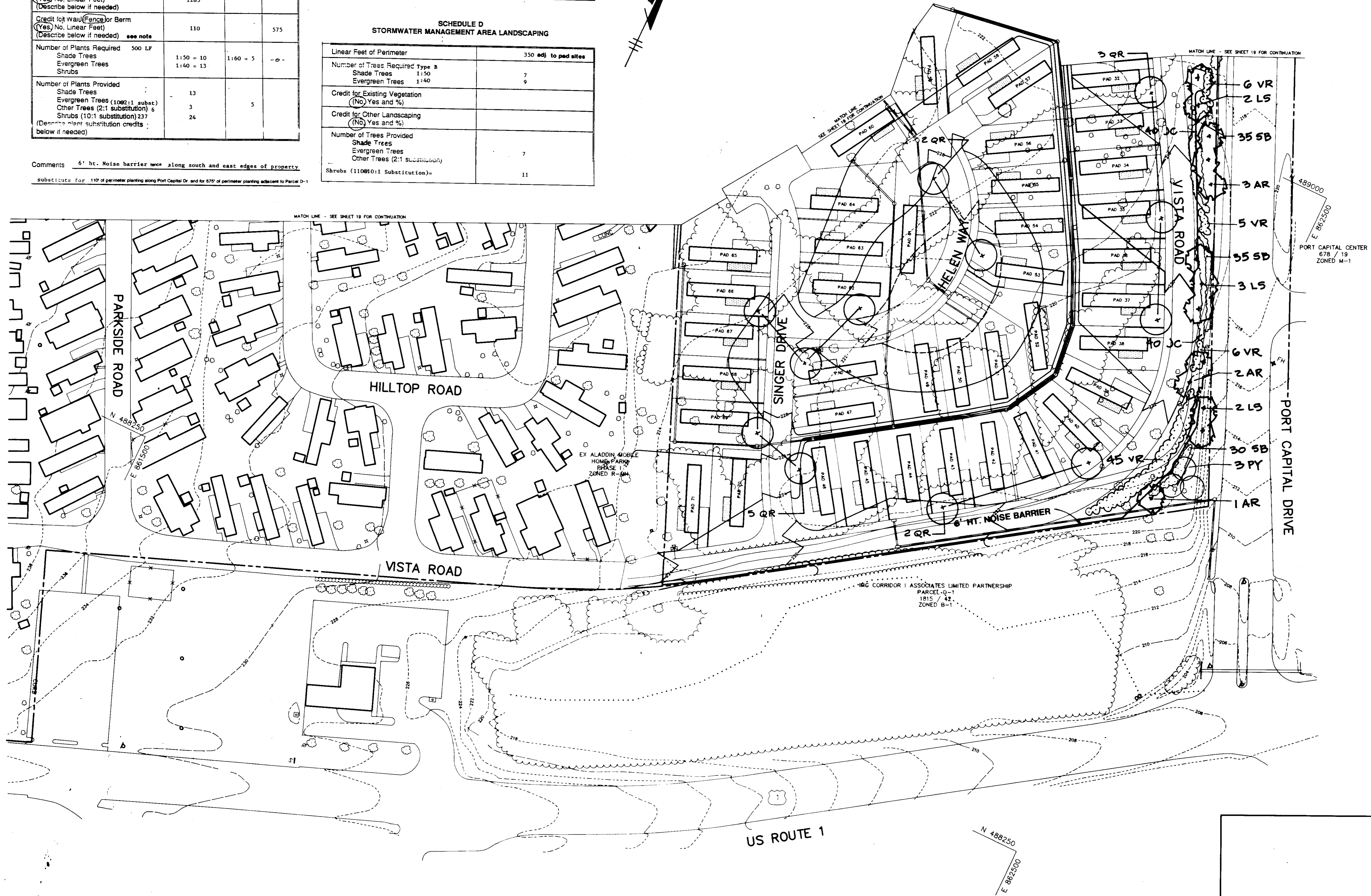
**SCHEDULE C
RESIDENTIAL DEVELOPMENT INTERNAL LANDSCAPING**

Number of Dwelling Units	71 (pad sites)
Number of Trees Required (1:DU SFA; 1:3 DU APTS)	24
Number of Trees Provided	24
Shade Trees	
Other Trees (2:1 substitution)	

**SCHEDULE D
STORMWATER MANAGEMENT AREA LANDSCAPING**

Linear Feet of Perimeter	350 adj to pad sites
Number of Trees Required Type A	
Shade Trees 1:50	7
Evergreen Trees 1:40	9
Credit for Existing Vegetation (No) Yes and %	
Credit for Other Landscaping (No) Yes and %	
Number of Trees Provided	
Shade Trees	7
Evergreen Trees	
Other Trees (2:1 substitution)	
Shrubs (1100:1 Substitution)	11

Comments 6' ht. Noise barrier w/ fence along south and east edges of property.
Substitutes for 110' of perimeter planting along Port Capital Dr. and for 670' of perimeter planting adjacent to Parcel D-1



THIS LANDSCAPE PLAN IS IN CONFORMANCE WITH SECTION 16.124 OF THE 3RD EDITION SUBDIVISION AND LAND DEVELOPMENT REGULATIONS AND THE HOWARD COUNTY LANDSCAPE MANUAL.

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS
HOWARD COUNTY HEALTH DEPARTMENT.
James M. Boyd md per *Jm* 8/5/94
COUNTY HEALTH OFFICER DATE

APPROVED: FOR HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.
David J. Wright 8/17/94
DIRECTOR DATE

Uma Shrivastava 8/17/94
CHIEF, DIVISION OF LAND DEVELOPMENT AND RESEARCH DATE

APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS.
Ch M. Deegan 7/28/94
DIRECTOR DATE

Blair Wall Anderson 7/28/94
CHIEF, BUREAU OF ENGINEERING DATE

DATE NO.	REVISION

OWNER / DEVELOPER
THE CARLYLE GROUP
C/O RONALD H. SINGER
9073 NEMO STREET
LOS ANGELES, CA 90069

PROJECT
ALADDIN MOBILE HOME PARK
PHASE II

AREA ZONED R-MH TAX MAP 43 PARCELS 12, 118
ELECTION DISTRICT 6
HOWARD COUNTY, MARYLAND

TITLE
LANDSCAPE PLAN

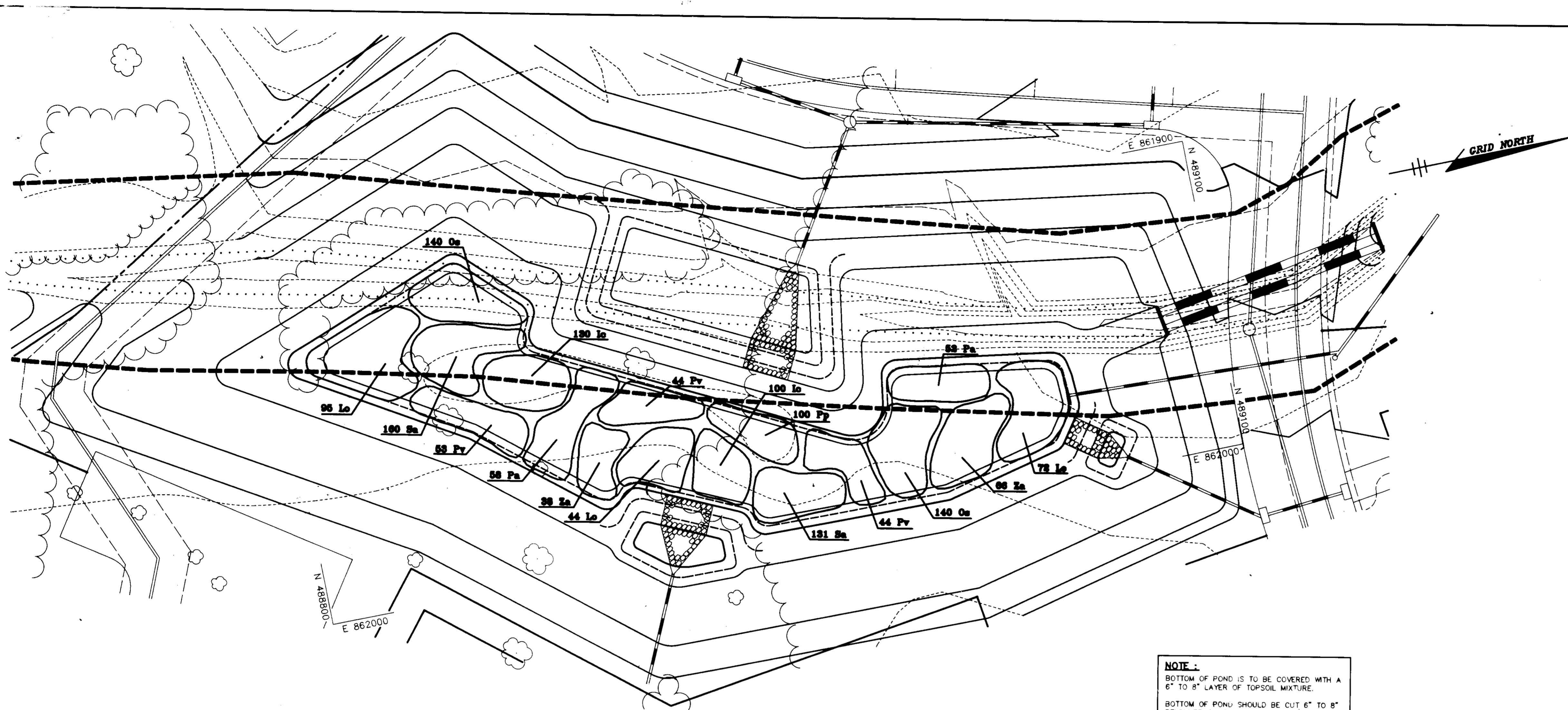
RIEMER MUEGGE & ASSOCIATES, INC.
A Land Planning, Engineering and Consulting Firm
8818 Centre Park Drive • Suite 200 • Columbia, Md 21045
410-997-8900 FAX: 410-997-9282

7.8.94
DATE

DESIGNED BY: Z.K.
DRAWN BY: Z.K.
PROJECT NO: 77804
DATE: JULY 8, 1994
SCALE: 1"=50'
DRAWING NO. 20 OF 21

Melanie Muegge
MELANIE MUEGGE #661

NOTE: SEE SHEETS 2, 3, 4 & 14 FOR REVISED PAD SIZES AND DETAIL.



NOTE:
 BOTTOM OF POND IS TO BE COVERED WITH A 6" TO 8" LAYER OF TOPSOIL MIXTURE.
 BOTTOM OF POND SHOULD BE CUT 6" TO 8" BELOW PROPOSED FINAL GRADES DURING CONSTRUCTION TO ALLOW FOR APPLICATION OF TOPSOIL MIXTURE.

PLAN
 SCALE: 1"=20'

PLANTING SPECIFICATIONS AND NOTES

WETLAND PLANT SOILS

1. TOPSOIL SHALL BE SALVAGED FROM WITHIN THE PROJECT LIMIT OF WORK AS INDICATED ON THE PLAN. SALVAGED TOPSOIL SHALL BE STOCKPILED FOR ULTIMATE APPLICATION TO THE MITIGATION AREA.
2. TOPSOIL MIXTURE FOR ALL PLANT MATERIALS - 200 LB DEHYDRATED RAW MANURE AND TEN 5.5 CU. FT. BALES OF PEAT HUMUS TO 12 CU. YDS. OF ON SITE FURNISHED TOPSOIL. COMPOSTED SLUDGE IN THE AMOUNT OF 4.0 CU. YDS., MAY BE SUBSTITUTED FOR THE RAW MANURE, PEAT MOSS OR PEAT HUMUS.

WETLAND PLANT AVAILABILITY

1. PLANT SPECIES REQUIRED ARE NORMALLY UNAVAILABLE FROM STANDARD LANDSCAPE NURSERY SOURCES. THE CONTRACTOR MUST MAKE ARRANGEMENTS WITH COMPETENT WETLANDS RESTORATION SPECIALISTS TO INSURE A SUPPLY OF THE REQUIRED MATERIAL.
2. THE CONTRACTOR AND/OR HIS SUBCONTRACTOR SHOULD BE AWARE OF THE SITE DESIGN CONDITIONS AND SHOULD TAKE ALL PRUDENT STEPS TO INSURE THAT THE PLANT MATERIAL SPECIFIED ON THE PLANS IS ACCLIMATED TO WETLAND CONDITIONS PRIOR TO DELIVERY TO THE JOB SITE. IF THE PLANT MATERIAL IS AVAILABLE FROM SOURCES WHERE WETLAND CONDITIONS ARE DUPLICATED AT THE NURSERY, THE CONTRACTOR SHOULD FAVOR THESE SOURCES AS THE SUPPLIER.
3. ROOTSTOCK OF WETLAND PLANT MATERIAL SHALL BE KEPT MOIST DURING THE TRANSPORT FROM THE SOURCE TO THE JOB SITE AND UNTIL PLANTED.

FERTILIZER

1. EMERGENT WETLAND PLANTS
 SPRING PLANTING - PLANT FERTILIZER SHALL BE 19-6-12 (3-4 MONTH SLOW RELEASE) OR EQUAL APPROVED BY THE LANDSCAPE ARCHITECT.
 FALL PLANTING - PLANT FERTILIZER SHALL BE 18-6-12 (6-9 MONTH SLOW RELEASE) OR EQUAL APPROVED BY THE LANDSCAPE ARCHITECT.

PLANTING SCHEDULE

1. INSTALL THE FOLLOWING:
 CONTAINER GROWN PLANTS
 SPRING - MARCH 1 TO JUNE 15
 FALL - AUGUST 15 TO DECEMBER 15

PLANT LIST EMERGENTS

QTY	SYMBOL	NAME	SIZE	REMARKS
230	1c	IMPATIENS CAPENSIS Jewelweed	1 Qt. or seed	CONT. 2' O.C.
210	Lo	LEERSIA ORYZOIDES Rice Cutgrass	Field Clump	3' O.C.
280	Os	ONOCLEA SENSIBILIS Sensitive Fern	1-2 Qt.	CONT. 3' O.C.
110	Pa	PHALARIS ARUNDINACEA Reed Canary Grass	Field Clump	3' O.C.
100	Pp	POLYGONUM PENNSYLVANICUM Giant Smartweed	1 Qt.	CONT. 2' O.C.
141	Pv	PANICUM VIRGATUM Switchgrass	Field Clump	3' O.C.
291	Sa	SCIRPUS AMERICANUS American Threesquare	1 Qt.	CONT. 2' O.C.
104	Za	ZIZANIA AQUATICA Wild Rice	Field Clump	3' O.C.

THIS LANDSCAPE PLAN IS IN CONFORMANCE WITH SECTION 16.124 OF THE 3RD EDITION SUBDIVISION AND LAND DEVELOPMENT REGULATIONS AND THE HOWARD COUNTY LANDSCAPE MANUAL.

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

Joyce M. Boyd 8/5/94
 COUNTY HEALTH OFFICER DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.

David C. Taylor 8/12/94
 DIRECTOR DATE

Dina Shrimany 8/17/94
 CHIEF, DIVISION OF LAND DEVELOPMENT AND RESEARCH DATE

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

Alan M. Ferguson 7/26/94
 DIRECTOR, AECOM DATE

Elizabeth Anderson-Lalca 7/28/94
 CHIEF, BUREAU OF ENGINEERING DATE

DATE	NO.	REVISION

OWNER / DEVELOPER
 THE CARLYLE GROUP
 C/O RONALD H. SINGER
 9073 NEMO STREET
 LOS ANGELES, CA 90069

PROJECT
ALADDIN MOBILE HOME PARK
 PHASE II

AREA ZONED R-MH TAX MAP 43 PARCELS 12, 118
 ELECTION DISTRICT 6
 HOWARD COUNTY, MARYLAND

TITLE
**STORMWATER MANAGEMENT
 PLAN**

RIEMER MUEGGE & ASSOCIATES, INC.
 A Land Planning, Engineering and Consulting Firm
 8818 Centre Park Drive • Suite 200 • Columbia, Md 21045
 410-997-8900 FAX: 410-997-9282

7.8.94
 DATE

DESIGNED BY: R.B.W., Z.K.
 DRAWN BY: W.C.W.
 PROJECT NO: 77804
 DATE: JULY 8, 1994
 SCALE: AS SHOWN
 DRAWING NO. 21 OF 21