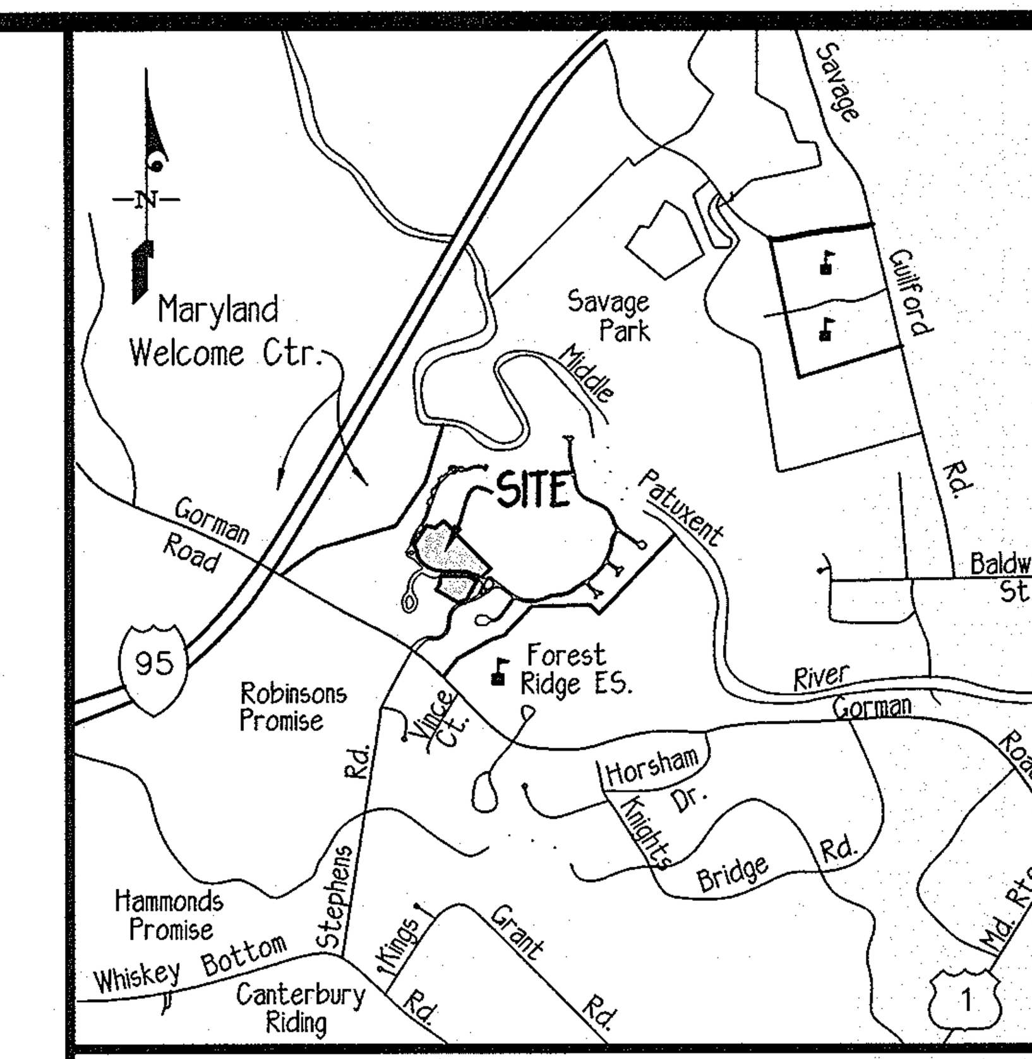
CONSTRUCTION PLANS
FOR
STONE LAKE
LOTS A-1 thru A-6, A-26 thruA-28, A-37 thru A-66, LOTS D-1 thru D-14 and Lot 122
A RESUBDIVISION OF PARCELS A&D AND OPEN SPACE LOT 38
LAKE EDGE DRIVE, MISTY WATER WAY, MIRROR LAKE WAY, & BOULDER HILL PLACE



VICINITY MAP
SCALE: 1" = 2000'

GENERAL NOTES

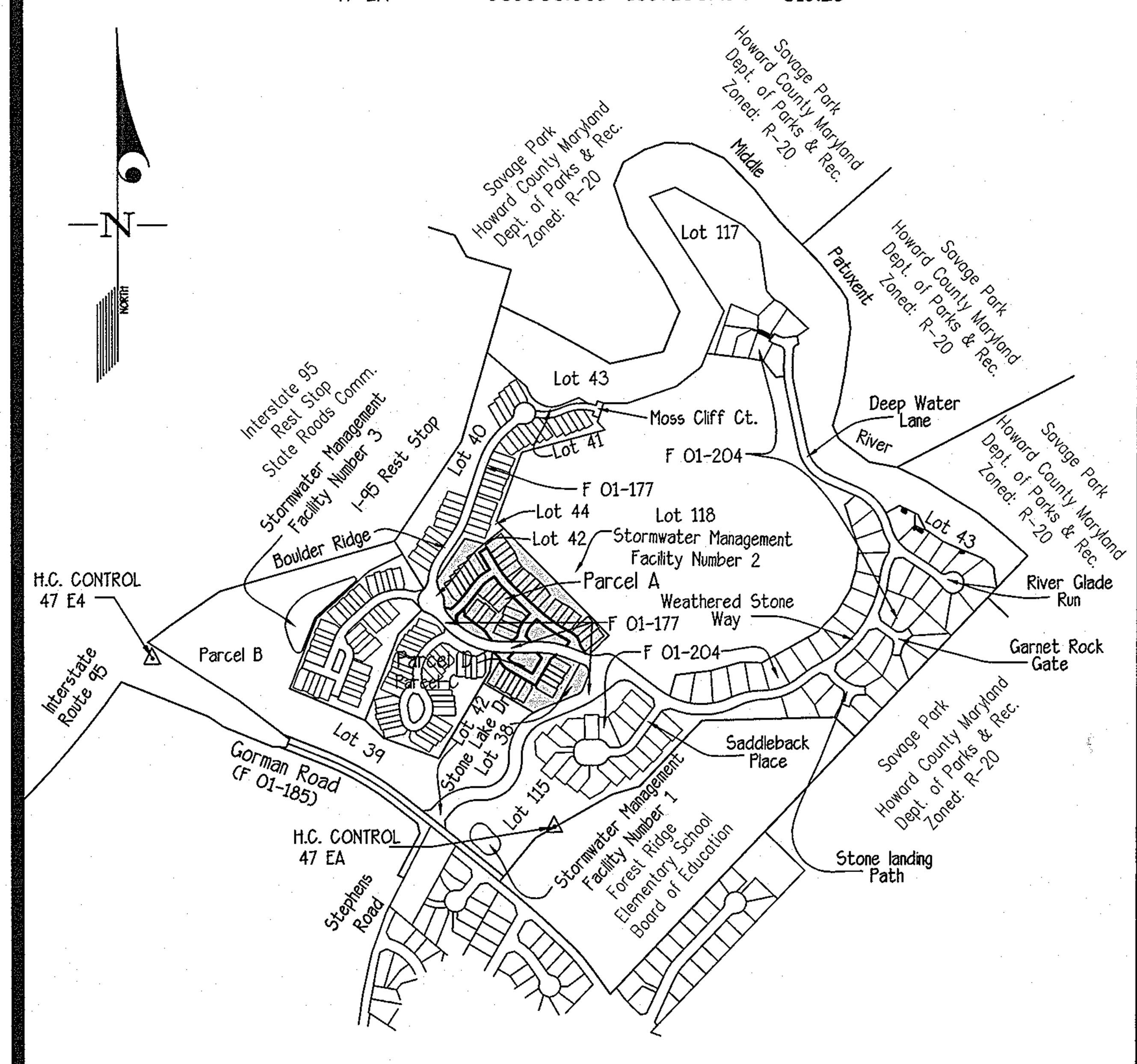
1. THE PROJECT IS IN CONFORMANCE WITH THE LATEST HOWARD COUNTY STANDARDS UNLESS WAIVERS HAVE BEEN APPROVED.
2. PROJECT BACKGROUND:
   LOCATION: GORMAN ROAD • STEPHENS ROAD
   TAX MAP: 36-18, 37-13
   ZONING: R-ED
   ELECTION DISTRICT: 6
   GROSS AREA OF TRACT: 8.05 ACRES
3. SEE DEPARTMENT OF PLANNING + ZONING FILE NUMBERS: S 00-13, WP 01-60, PB 345, F 01-117, P 01-15, F 01-204,S 02-21 + P 03-14.
4. THE TOPOGRAPHY SHOWN HAS A 2' CONTOUR INTERVAL AND WAS

   DETERMINED BY : AIERL PHOTOGRAPHY BY DAFT, McCUNE + WALKER, SUMMER 1998.
5. PUBLIC WATER AND SEWER TO BE UTILIZED. SITE IS IN METROPOLITAN DISTRICT.
6. HORIZONTAL AND VERTICAL CONTROL BASED ON HOWARD COUNTY CONTROL STATIONS 47 EA + E4.
7. INFORMATION CONCERNING UNDERGROUND UTILITIES WAS OBTAINED FROM BEST AVAILABLE RECORDS. THE CONTRACTOR MUST DETERMINE THIS EXACT LOCATION AND ELEVATION OF THE MAINS BY DIGGING TEST PITS BY HAND AT ALL CROSSINGS WELL IN ADVANCE OF CONSTRUCTION. ANY DISCREPANCIES MUST BE COMMUNICATED TO THE ENGINEER AT ONCE.
8. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST STANDARDS AND SPECIFICATIONS OF HOWARD COUNTY AND MSHA STANDARDS AND SPECIFICATIONS, IF APPLICABLE.
9. THE CONTRACTOR SHALL NOTIFY THE DEPARTMENT OF PUBLIC WORKS /DIVISION OF CONSTRUCTION INSPECTION AT 1 (410) 313 - 1880 AT LEAST FIVE (5) DAYS PRIOR TO THE START OF WORK.
10. THE CONTRACTOR SHALL NOTIFY THE FOLLOWING UTILITIES OR AGENCIES AT LEAST FIVE (5) WORKING DAYS BEFORE STARTING WORK SHOWN ON THE PLANS.

MISS UTILITY	1-800-257-7777
VERIZON	1-800-446-5266
HOWARD COUNTY BUREAU OF UTILITIES	410-313-4900
AT+T CABLE LOCATION DIVISION	393-3553
BALTIMORE GAS + ELECTRIC CO.	410-850-4620 + 410-787-9068

11. TRENCH COMPACTION FOR STORM DRAINS WITHIN ROADS AND STREET RIGHT - OF - WAYS LIMITS SHALL BE IN ACCORDANCE WITH "HOWARD COUNTY DESIGN MANUAL", VOL. IV, STANDARD G-2.01.
12. SEDIMENT CONTROL SHALL BE PROVIDED IN ACCORDANCE WITH " 1994 MARYLAND STANDARDS AND SPECIFICATION FOR SOILS EROSION AND SEDIMENT CONTROL".
13. TRAFFIC CONTROL DEVICES, MARKINGS, AND SIGNING SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
14. STREET TREES SHALL BE PLANTED A MINIMUM OF FIVE (5) FEET FROM STORM DRAIN, WATERLINE OR SEWER PIPE MANHOLES; ALSO A MINIMUM OF TWENTY (20) FEET FROM STREET LIGHTS.
15. COMPACTION IN FILL AREAS SHALL BE IN ACCORDANCE WITH AASHTO T-180 OR AS APPROVED IN THE DESIGN MANUAL VOLUME IV.
16. WETLAND, STREAM, STEEP SLOPE, AND FOREST COVER DELINEATION BY DAFT, McCUNE AND WALKER.
17. TRAFFIC STUDY WAS APPROVED AS PART OF THE SKETCH PLAN ON OCTOBER 10, 2000.
18. ALL ROADS IN THIS DEVELOPMENT ARE PRIVATE.
19. STREET TREE LOCATIONS SHOWN ARE TENTATIVE AND ARE TO BE USED FOR BOND PURPOSES ONLY. THE FINAL LOCATION AND VARIETY OF TREES MAY VARY TO ACCOMMODATE FIELD CONDITIONS AND BUILDERS LANDSCAPE PROGRAM.
20. LANDSCAPING FOR THIS PROJECT HAS BEEN PREPARED ACCORDING TO THE ALTERNATIVE COMPLIANCE PORTION OF THE LANDSCAPE MANUAL (CHAPTER VI).
21. NOISE STUDY WAS APPROVED AS PART OF THE SKETCH PLAN OCTOBER 10, 2000.
22. ON JANUARY 16, 2001, WP 01-60; WAIVER OF SECTION 16.120 c (2) WAS GRANTED WHICH REQUIRES ALL LOTS TO HAVE FRONTAGE ON A PUBLIC ROAD; AND SECTION 16.120 c (4) WHICH LIMITS THE LENGTH OF A PRIVATE ROAD FOR SFA UNITS TO 200, SUBJECT TO ONE CONDITION IN THE APPROVAL LETTER.
23. LANDSCAPE SCHEDULE A, PERIMETER LANDSCAPE EDGE, FOR LOTS A-1, A-6, A-55, A-56, A-28, A-59, A-60, D-6, D-7 + D-11 AND THE SCHEDULE C, RESIDENTIAL DEVELOPMENT INTERNAL LANDSCAPING WILL BE SUBMITTED AND APPROVED UNDER THE SITE DEVELOPMENT PLANS.
24. STORMWATER MANAGEMENT COMPUTATIONS AND PLANS SUBMITTED AND APPROVED UNDER F 01-177, FEBRUARY 27, 2002 AND F 01-204, JUNE 5, 2002. PARCELS A AND D DRAIN TO THE EXISTING QUARRY.
25. THERE ARE NO 100-YEAR FLOOD PLAIN WITHIN THE BOUNDARY OF THIS PROJECT
26. A FOREST STAND DELINEATION PLAN WAS SUBMITTED AND APPROVED FOR THE AREA COVERED BY THIS PLAN UNDER S 03-13 OCTOBER 19, 2000. FOREST CONSERVATION PLANS WERE SUBMITTED AND APPROVED FOR THE AREA COVERED BY THIS PLAN UNDER F 01-177 AND F 01-204 JUNE 5, 2002.
27. A SIGHT DISTANCE ANALYSIS WAS PROVIDED AND APPROVED WITH THE SKETCH PLAN S 02-21 ON OCTOBER 7, 2002.
28. THE STRUCTURE SETBACK LINE (SSL) INDICATED ON PARCEL A IS A SLOPE SETBACK LINE AS DETERMINED IN A REPORT PREPARED BY THE ROBERT B. BALTER COMPANY. THIS SSL ESTABLISHES AN ADDITIONAL SETBACK ON BUILDABLE LOTS. THE SSL DOES NOT ENCROACH ONTO BUILDABLE LOTS ON THIS PLAN.
29. COMMON OPEN AREA LOTS A-38, A-65 AND D-14 ARE FOR THE PURPOSE OF COMMON INGRESS/EGRESS AND UTILITY CONSTRUCTION AND MAINTENANCE. AN EASEMENT FOR INGRESS/EGRESS, PUBLIC WATER AND SEWER CONSTRUCTION AND MAINTENANCE, AND VARIOUS PUBLIC UTILITIES (GAS, TELEPHONE, ELECTRIC, ETC.) CONSTRUCTION AND MAINTENANCE WILL BE OVERLAYED WITH THOSE LOTS AS PART OF THE FINAL PLAT PROCESS.

CONTROL STATION	NORTHING	EASTING	ELEVATION
47 E4	535846.138	1355431.196	338.91
47 EA	535063.631	1357283.989	315.28



LOCATION PLAN & SHEET LAYOUT
SCALE: 1"=600'

LEGEND

- - - - 366 - - - - -	EX. CONTOUR
——— 300 ———	PROP CONTOUR
	EX. TREES
	PROP. TREES
	EX. STORM DRAIN
	PROP. STORM DRAIN
LOS	LIMIT OF SUBMISSION
8"S.	EX. SANITARY SEWER
Ex. 8"W.	EX. WATERLINE
	CONCRETE CURB + GUTTER
	PROP. SIDEWALK
	EX. CURB + GUTTER
	PROPOSED TRANSITION CURB
	EX. EASEMENTS
	PROP. EASEMENTS
X 78.0	FLOW LINE OF PAVING SPOT SHOT
6	NUMBER OF PARKING SPACES
	EX. LIGHT FIXTURE + POLE
	PROP. LIGHT FIXTURE + POLE
	STEEP SLOPES

Parking Requirements:

Parcel A:
Total Parking Required: 34 units x 2 spaces/unit = 68 Spaces
Garages: 68 Spaces (2 ea. SFA)
Driveways: 34 Spaces (1 ea. SFA)
Surface: Spaces: 36 Spaces
Total: 138 Spaces

Overflow/Guest Parking Requirements (per Design Manual Volume III. 2.8.2)

Parking Required: 34 units x 0.5 spaces per unit = 17 spaces
Overflow/Guest Parking provided: 77 spaces (138 - 68 = 70)

Parcel D:
Total Parking Required: 11 units x 2 spaces/unit = 22 Spaces
Garages: 22 Spaces (2 ea. SFA)
Driveways: 11 (1 ea. SFA)
Surface: 16 Spaces
Total: 49 Spaces

Overflow/Guest Parking Requirements (per Design Manual Volume III. 2.8.2)

Parking Required: 11 units x 0.5 spaces per unit = 6 spaces
Overflow/Guest Parking provided: 27 spaces (49 - 22 = 27)

OWNER & PREPARED FOR :
LOTS A-1 THRU A-6, A-26 THRU A-28, A-39 THRU A-63, and D-1 THRU D-11
MILLER & SMITH
8401 GREENSBORO DRIVE, SUITE 300
McLEAN, VIRGINIA 22101
ATTN: COLLEEN DWELLEY
(703) 821-2500 ext. 236

Sheet Index

NOTE: THESE REPLACEMENT SHEETS SUPERCEEDES THE PLAN SHEET DATED DEC., 2003

Revised Road Construction Plan
* LOTS A-37, A-38, A-64, A-65, A-66, D-12 THRU D-14

~~APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS~~
~~PRIVATE ROADS, DRAINS + SWM~~
~~Chief, Bureau of Highways — Date~~

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING + ZONING
Chief, Division of Land Development — Date 5/12/08
Chief, Development Engineering Division — Date 5/6/08

GLW GUTSCHICK LITTLE & WEBER, P.A.
CIVIL ENGINEERS, LAND SURVEYORS, LAND PLANNERS, LANDSCAPE ARCHITECTS
3909 NATIONAL DRIVE - SUITE 250 - BURTONSVILLE OFFICE PARK
BURTONSVILLE, MARYLAND 20866
TEL: 301-421-4024 BALT: 410-880-1820 DC/VA: 301-989-2524 FAX: 301-421-4186

L:\CADD\DRAWINGS\99140\ParcelAD\ROAD-PLANS\99140adRP1.dwg | DES. BJM | DRN. BJM | CHK. MJT

DATE	REVISION	BY	APP'R.
09-08	Changed Title Block Lot Numbers, General Notes 23 + 29, Location Plan, Owner Designation.	BJM	mjt

OWNER & PREPARED FOR :
STONE LAKE COMMUNITY ASSOCIATION, INC.*
C/O THE HOWARD RESEARCH & DEVELOPMENT CORP.
THE ROUSE BUILDING
10275 LITTLE PATUXENT PARKWAY
COLUMBIA, MARYLAND 21044
ATTN.: JOE NECKER
TELE.: (410) 992-6084

COVER SHEET
STONE LAKE
LOTS A-1 thru A-6, A-26 thru A-28, A-37 thru A-66, LOTS D-1 thru D-14 AND LOT 122
A RESUBDIVISION OF PARCELS 'A' & 'D' AND OPEN SPACE LOT 38
PLAT No.'s 15274 & 15275
ELECTION DISTRICT No. 6 — HOWARD COUNTY, MARYLAND

SCALE	ZONING	G. L. W. FILE No.
AS SHOWN	NT	99140
DATE	TAX MAP - GRID	SHEET
Sept., 2005	47-9/10 P/O PARCEL 837	1 OF 9

F 04-48

PT. No.	STATION	OFFSET	ELEV.
* 1	0+12.00	29.99' RT.	332.12
2	0+15.65	17.49' Rt.	331.43
3	0+25.44	12.00' Rt.	331.10
4	0+63.20	12.00' Rt.	329.88
5	1+00.95	12.00' Rt.	329.22
6	1+11.19	12.00' Rt.	329.04
7	2+05.35	12.00' Rt.	327.37
8	2+99.51	12.00' Rt.	325.70
9	4+64.56	12.00' Rt.	322.79
10	5+10.37	12.00' Rt.	321.98
11	5+56.19	12.00' Rt.	321.16
12	6+70.11	12.00' Rt.	319.63
13	6+70.11	12.00' Lt.	319.63
14	6+60.11	12.00' Lt.	319.69
15	6+55.11	17.00' Lt.	319.78
16	6+55.11	30.00' Lt.	320.17
17	5+92.11	30.00' Lt.	321.07
18	5+92.11	17.00' Lt.	320.68
19	5+87.11	12.00' Lt.	320.62
20	2+99.57	12.00' Lt.	320.34
21	2+88.03	12.00' Lt.	320.01
22	2+49.64	12.00' Lt.	318.94
23	2+11.24	12.00' Lt.	317.86
24	1+37.24	12.00' Lt.	315.79
25	1+19.46	12.00' Lt.	315.29
26	1+01.50	12.00' Lt.	314.79
27	0+96.25	17.00' Lt.	314.79
28	0+96.25	30.00' Lt.	315.18
29	0+57.49	30.00' Lt.	314.09
30	0+57.49	17.00' Lt.	313.07
31	0+52.49	12.00' Lt.	313.41
32	0+38.91	12.00' Lt.	313.03
33	0+22.15	21.09' Lt.	312.56
* 34	0+20.63	40.10' Lt.	312.00
* 35	0+32.62	33.38' Rt.	314.14
36	0+18.00	18.36' Rt.	312.46
** 37	0+29.54 △	12.24' Rt. △	312.76 △
38	101+99.67 △	14.74' Rt. △	313.02 △
39	1+00.77	12.00' Rt.	314.77
40	1+37.42	12.00' Rt.	315.79
41	2+11.42	12.00' Rt.	317.87
42	2+49.64	12.00' Rt.	318.94
43	2+88.03	12.00' Rt.	320.01
44	3+00.27 △	12.00' Rt.	320.36 △

** MISTY WATER WAY *** BOULDER RIDGE
* MATCH EXISTING GRADE

PT. No.	STATION	OFFSET	ELEV.
45	5+34.75 △	12.00' Lt. △	321.54 △
△	△	△	△
△	△	△	△
△	△	△	△
△	△	△	△
50	4+68.55	12.00' Lt.	322.71
51	4+01.20	12.00' Lt.	323.91
52	3+96.20	17.00' Lt.	324.14
53	3+96.20	30.00' Lt.	324.53
54	3+24.20	30.00' Lt.	325.81
55	3+24.20	17.00' Lt.	325.42
56	3+19.20	12.00' Lt.	325.36
57	3+14.20	12.00' Lt.	325.44
58	1+51.71	12.00' Lt.	325.62
59	1+27.85	12.00' Lt.	325.22
60	0+81.34	12.00' Lt.	324.80
61	0+34.82	12.00' Lt.	325.63
62	0+17.86	17.86' Lt.	327.03
* 63	0+12.00	32.00' Lt.	326.80
* 64	0+12.00	32.00' Rt.	327.25
65	0+17.86	17.86' Rt.	327.02
66	0+32.00	12.00' Rt.	325.71
67	0+52.35	12.00' Rt.	325.16
68	0+58.14	17.12' Rt.	325.20
69	0+58.14	30.00' Rt.	325.59
70	0+93.00	30.00' Rt.	324.44
71	1+27.85	30.00' Rt.	325.76
72	1+46.87	30.00' Rt.	326.07
73	1+46.87	17.00' Rt.	325.68
74	1+51.87	12.00' Rt.	325.62
75	2+61.75	12.00' Lt.	326.37
76	2+52.38	12.00' Lt.	326.54
77	2+47.51	17.00' Lt.	326.77
78	2+47.51	30.00' Lt.	327.16
79	2+07.75	30.00' Lt.	327.87
80	1+67.98	30.00' Lt.	328.57
81	1+67.98	17.00' Rt.	328.18
82	1+63.11	12.00' Rt.	328.12
83	1+37.15	12.00' Rt.	328.58
84	1+00.95	12.00' Rt.	329.22
85	0+70.18	12.00' Rt.	329.76
86	0+39.40	12.00' Rt.	330.31
87	0+21.42	17.06' Rt.	330.64
* 88	0+12.00	30.17' Lt.	330.75
89 △	101+92.80 △	12.00' Lt. △	313.28 △
90 △	100+57.19 △	12.00' Lt. △	320.93 △
91 △	100+28.43 △	15.38' Lt. △	322.10 △
92 △	100+19.04 △	18.30' Lt. △	323.27 △
*** 93 △	5+82.02 △	13.70' Rt. △	324.24 △
*** 94 △	5+90.65 △	12.00' Rt. △	323.81 △
*** 95 △	5+20.23 △	12.00' Rt. △	325.47 △
96 △	100+18.30 △	19.00' Rt. △	325.30 △
97 △	100+31.32 △	12.00' Rt. △	324.20 △
98 △	100+40.09 △	12.00' Rt. △	323.12 △
99 △	100+48.85 △	12.00' Rt. △	322.03 △
00 △	101+77.83 △	12.00' Rt. △	314.46 △
01 △	101+89.26 △	17.28' Rt. △	314.08 △
02 △	0+80.83 △	12.00' Rt. △	314.21 △

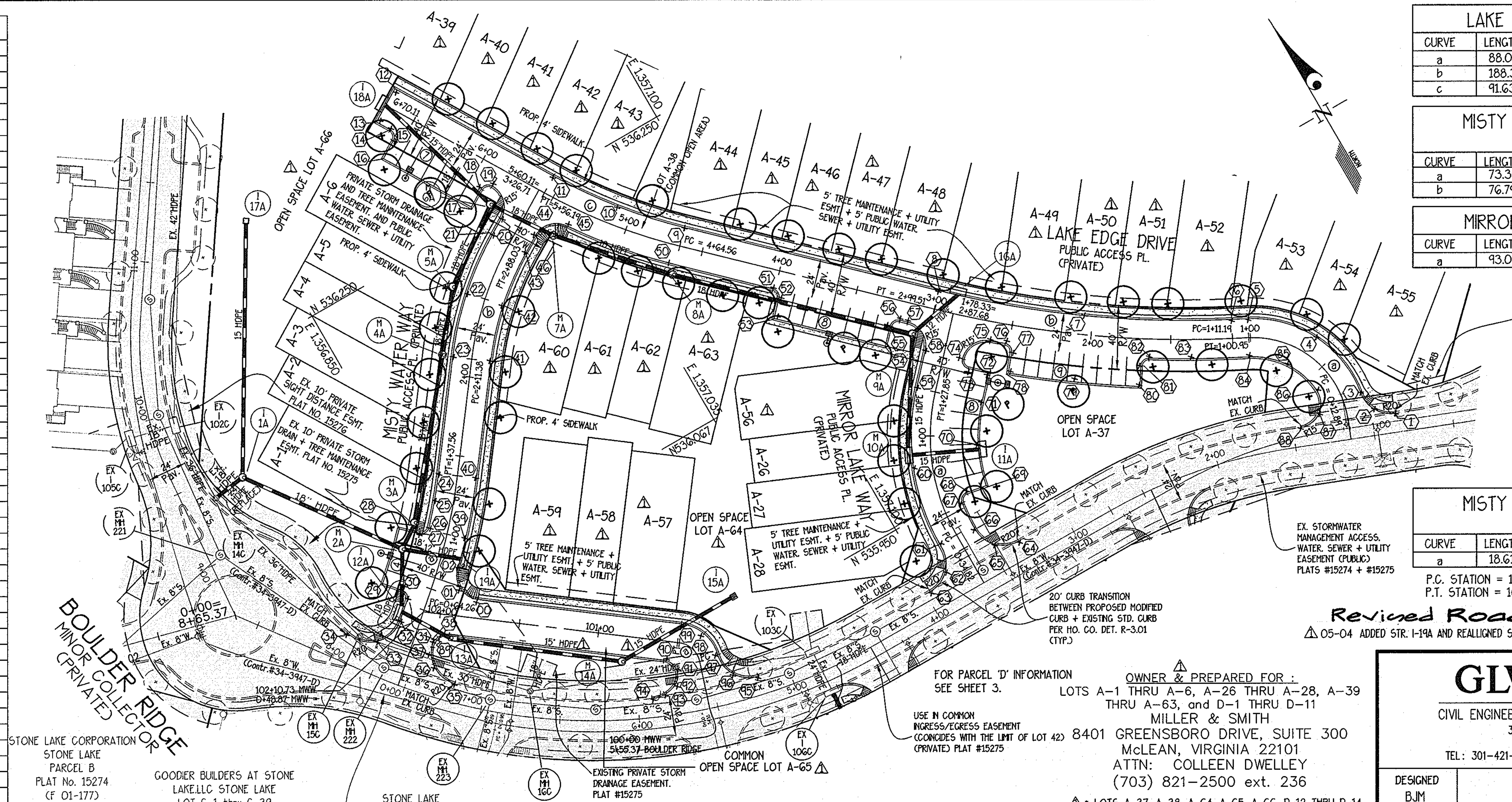
~~APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS~~

~~Chief, Bureau of Highways ____ Date~~

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING + ZONING

[signature] 5/12/08
Chief, Division of Land Development — Date

[signature] 5/6/08
Chief, Development Engineering Division — Date



STONE LAKE CORPORATION
STONE LAKE
PARCEL B
PLAT No. 15274
(F 01-177)
(F 04-22)
ZONED: R-ED

GOODIER BUILDERS AT STONE LAKE,LLC STONE LAKE
LOT C-1 thru C-39
PLAT No. 15478
ZONED: R-ED

STONE LAKE
LOT 42
(COMMON OPEN AREA)
PLAT No. 15275 + 15276
(F 01-177)

FOR PARCEL 'D' INFORMATION SEE SHEET 3.

PARCEL A ROAD PLAN

PLAN VIEW
SCALE: 1" = 50'

LAKE EDGE DRIVE CENTERLINE CURVE TABLE						
CURVE	LENGTH	RADIUS	TANGENT	CHORD	BEARING	DELTA
a	88.06'	60.00'	54.11'	80.37'	N 20°43'10" W	84°29'35"
b	188.32'	650.00'	94.82'	187.66'	N 54°18'00" W	16°36'00"
c	91.63'	350.00'	46.08'	91.37'	S 38°30'00"E	15°00'00"

MISTY WATER WAY CENTERLINE CURVE TABLE △ STA 0+00 THRU STA 3+26.71						
CURVE	LENGTH	RADIUS	TANGENT	CHORD	BEARING	DELTA
a	73.30'	350.00'	36.79'	73.17'	N 43°00'00" E	12°00'00"
b	76.79'	200.00'	38.88'	76.32'	N 48 00'00" E	22 00'00"

MIRROR LAKE WAY CENTERLINE CURVE TABLE						
CURVE	LENGTH	RADIUS	TANGENT	CHORD	BEARING	DELTA
a	93.03'	125.00'	48.79'	90.90'	N 721 38'10" E	42°38'35"

NOTES:

1. LOT A-38 IS ALSO A PUBLIC WATER, SEWER + UTILITY EASEMENT.

MISTY WATER WAY CENTERLINE CURVE TABLE △ STA 100+00 THRU 102+10.73						
CURVE	LENGTH	RADIUS	TANGENT	CHORD	BEARING	DELTA
a	18.61'	15.00'	10.71'	17.44'	S 17°27'46" E	71°04'29"

P.C. STATION = 100+30.25
P.T. STATION = 100+48.85

Revised Road Construction Plan

△ 05-04 ADDED STR. I-19A AND REALLIGNED STORM DRAIN FROM I-12A THRU I-15A. GRADING MODIFIED TO ENABLE NEW LOT + ROAD ALLIGNMENT.

△ OWNER & PREPARED FOR :
LOTS A-1 THRU A-6, A-26 THRU A-28, A-39 THRU A-63, and D-1 THRU D-11
MILLER & SMITH
8401 GREENSBORO DRIVE, SUITE 300
McLEAN, VIRGINIA 22101
ATTN: COLLEEN DWELLEY
(703) 821-2500 ext. 236

△* LOTS A-37, A-38, A-64, A-65, A-66, D-12 THRU D-14

STREET TREE SCHEDULE				
SYMBOL	NAME (BOTANICAL/COMMON)	SIZE	QUANTITY	REMARKS
Qr	Quercus Rubra / Red Oak	2"-3" Cal. 12'-14' Ht.	51 △	B ; B FULL HEAD

STREET LIGHT SCHEDULE			
LOCATION	LAMP TYPE	MOUNTING	POLE TYPE
C.L. STA. 2+52.66 - 37' L. LAKE EDGE DRIVE	100-W HIGH PRESSURE SODIUM VAPOR	TRADITIONAIRE POST TOP	14' BLACK FIBERGLASS
C.L. STA. 3+60.20 - 37' L. LAKE EDGE DRIVE	100-W HIGH PRESSURE SODIUM VAPOR	TRADITIONAIRE POST TOP	14' BLACK FIBERGLASS
C.L. STA. 6+37.07 - 34' L. LAKE EDGE DRIVE	100-W HIGH PRESSURE SODIUM VAPOR	TRADITIONAIRE POST TOP	14' BLACK FIBERGLASS

GLW GUTSCHICK LITTLE & WEBER, P.A.

CIVIL ENGINEERS, LAND SURVEYORS, LAND PLANNERS, LANDSCAPE ARCHITECTS
3909 NATIONAL DRIVE – SUITE 250 – BURTONSVILLE OFFICE PARK
BURTONSVILLE, MARYLAND 20866
TEL: 301-421-4024 BALT: 410-880-1820 DC/VA: 301-989-2524 FAX: 301-421-4186

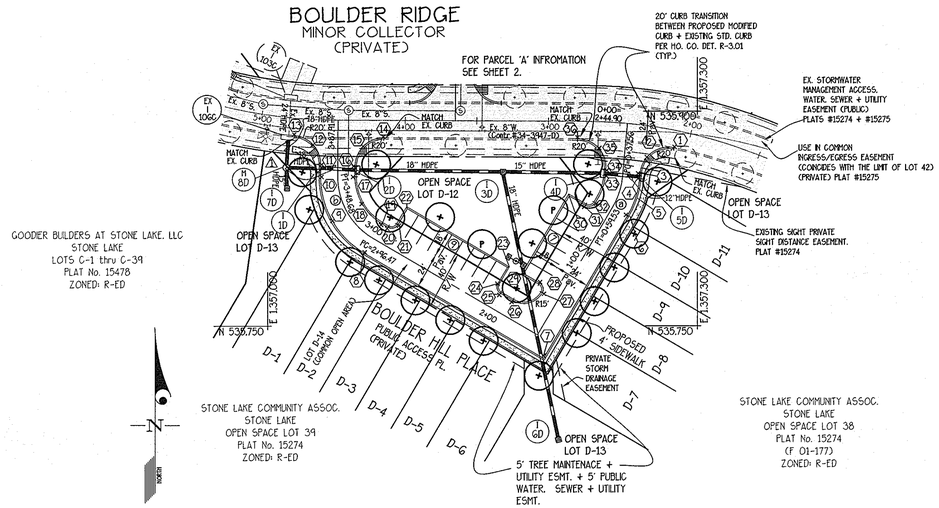
DESIGNED BJM	CONSTRUCTION PLAN STONE LAKE	SCALE AS SHOWN
DRAWN KIP	MISTY WATER WAY - STATION 0+00 TO STATION 3+26.71 △ MISTY WATER WAY - STATION 100+00 TO STATION 102+10.73 MIRROR LAKE WAY - STATION 0+00 TO STATION 1+78.33 LAKE EDGE DRIVE - STATION 0+00 TO STATION 6+70.11	DRAWING 2 OF 9
CHECKED BJM	ELECTION DISTRICT No.6 — HOWARD COUNTY, MARYLAND	ZONING RE-D
DATE SEPT. 2005	PREPARED FOR: STONE LAKE COMMUNITY ASSOCIATION, INC.* C/O THE HOWARD RESEARCH + DEVELOPMENT CORPORATION THE ROUSE BUILDING 10275 LITTLE PATUXENT PARKWAY COLUMBIA, MARYLAND 21044 ATTN.: JOE NECKER PH.: (410) 992-6084	JOB No. 99140

NOTE: THESE REPLACEMENT SHEETS SUPERCEEDES THE PLAN SHEET DATED DEC., 2003

F 04-48

PT. No.	STATION	OFFSET	ELEV.
* ①	0+13.87	34.18' Lt.	329.51
②	0+18.86	18.65' Lt.	329.36
③	0+33.75	12.00' Lt.	328.91
④	0+37.56	12.00' Lt.	329.04
⑤	0+48.54	12.00' Lt.	329.38
⑥	0+59.53	12.00' Lt.	329.64
⑦	1+63.47	16.97' Lt.	330.79
⑧	2+96.47	12.00' Lt.	327.87
⑨	3+22.57	12.00' Lt.	327.02
⑩	3+48.68	12.00' Lt.	326.16
⑪	3+57.25	12.00' Lt.	325.89
⑫	3+70.79	17.28' Lt.	325.45
* ⑬	3+77.18	30.32' Lt.	324.99
* ⑭	3+75.91	32.00' Rt.	326.10
⑮	3+70.05	17.86' Rt.	325.83
⑯	3+55.91	12.00' Rt.	325.93
⑰	3+48.68	12.00' Rt.	326.17
⑱	3+22.57	12.00' Rt.	327.02
⑲	2+96.47	12.00' Rt.	327.87
⑳	2+91.47	12.00' Rt.	328.04
㉑	2+86.47	17.00' Rt.	328.35
㉒	2+86.47	30.00' Rt.	328.74
㉓	2+05.47	30.00' Rt.	330.95
㉔	2+05.47	17.00' Rt.	330.56
㉕	2+00.47	12.00' Rt.	303.47
㉖	1+90.47	12.00' Rt.	330.60
㉗	1+36.47	12.00' Rt.	330.78
㉘	1+31.47	17.00' Rt.	330.90
㉙	1+31.47	30.00' Rt.	331.29
㉚	0+68.47	30.00' Rt.	330.44
㉛	0+68.47	17.00' Rt.	330.05
㉜	0+63.47	12.00' Rt.	329.78
㉝	0+37.56	12.00' Rt.	329.05
㉞	0+33.68	12.00' Rt.	328.91
㉟	0+18.93	18.49' Rt.	328.29
* ㊱	0+13.76	33.74' Rt.	328.03

* MATCH EXISTNG CURB



NOTES:

1. LOT D-14 IS ALSO A PUBLIC WATER, SEWER + UTILITY EASEMENT.

PARCEL D ROAD PLAN
PLAN VIEW
SCALE: 1" = 50'

BOULDER HILL PLACE CENTERLINE CURVE TABLE						
CURVE	LENGTH	RADIUS	TANGENT	CHORD	BEARING	DELTA
a	21.96'	50.00'	11.16'	21.79'	N 17°53'53" E	25°10'01"
b	52.21'	50.00'	28.77'	49.87'	S 29°36'07" E	59°49'59"

Revised Road Construction Plan

⚠ 05-04 OWNER INFORMATION, TITLE BLOCK AND ADDED STORM INLET 7D

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

Chief, Bureau of Highways — Date

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING + ZONING

Chief, Division of Land Development — Date 4/12/06

Chief, Development Engineering Division — Date 5/6/06

⚠ OWNER & PREPARED FOR :
LOTS A-1 THRU A-6, A-26 THRU A-28, A-39 THRU A-63, and D-1 THRU D-11
MILLER & SMITH
8401 GREENSBORO DRIVE, SUITE 300
McLEAN, VIRGINIA 22101
ATTN: COLLEEN DWELLEY
(703) 821-2500 ext. 236

⚠* LOTS A-37, A-38, A-64, A-65, A-66, D-12 THRU D-14

STREET TREE SCHEDULE				
SYMBOL	NAME (BOTANICAL/COMMON)	SIZE	QUANTITY	REMARKS
Qr	Quercus Rubra / Red Oak	2"-3" Cal. 12'-14' Ht.	20	B & B FULL HEAD

STREET LIGHT SCHEDULE			
LOCATION	LAMP TYPE	MOUNTING	POLE TYPE
C.L. STA. 2+02.57 - 37' Rt. BOULDER HILL PLACE	100-W HIGH PRESSURE SODIUM VAPOR	TRADITIONAIRE POST TOP	14' BLACK FIBERGLASS

GLW GUTSCHICK LITTLE & WEBER, P.A.
CIVIL ENGINEERS, LAND SURVEYORS, LAND PLANNERS, LANDSCAPE ARCHITECTS
3909 NATIONAL DRIVE - SUITE 250 - BURTONSVILLE OFFICE PARK
BURTONSVILLE, MARYLAND 20866
TEL: 301-421-4024 BALT: 410-880-1820 DC/VA: 301-989-2524 FAX: 301-421-4186

DESIGNED BJM	**CONSTRUCTION PLAN** **STONE LAKE** BOULDER HILL PLACE- STATION 0+00 TO STATION 3+87.91	SCALE AS SHOWN
DRAWN KIP		DRAWING 3 OF 9
CHECKED BJM	ELECTION DISTRICT No.6 HOWARD COUNTY, MARYLAND	ZONING RE-D
DATE DEC. 2003	PREPARED FOR: STONE LAKE COMMUNITY ASSOCIATION, INC. ⚠ C/O THE HOWARD RESEARCH + DEVELOPMENT CORPORATION THE ROUSE BUILDING 10275 LITTLE PATUXENT PARKWAY COLUMBIA, MARYLAND 21044 ATTN: JOE NECKER PH: (410) 992-6084	JOB No. 99140

BOULDER HILL PLACE
PUBLIC ACCESS PLACE PRIVATE
DESIGN SPEED = 25 mph

NOTE: THESE REPLACEMENT SHEETS SUPERCEEDES THE PLAN SHEET DATED DEC., 2003

F 04-48

PLANT MATERIALS AND PLANTING METHODS

A. Plant Materials

The landscape contractor shall furnish and install and/or dig, ball, burlap and transplant all of the plant materials called for on drawings and/or listed in the Plant Schedule.

1. Plant Names

Plant names used in the Plant Schedule shall conform with "Standardized Plant Names," latest edition.

2. Plant Standards

All plant material shall be equal to or better than the requirements of the "USA Standard for Nursery Stock" latest edition, as published by the American Association of Nurserymen (hereafter referred to as AAN Standards). All plants shall be typical of their species and variety, shall have a normal habit of growth and shall be first quality, sound, vigorous, well-branched and with healthy, well-furnished root systems. They shall be free of disease, insect pests and mechanical injuries.

All plants shall be nursery grown and shall have been grown under the same climate conditions as the location of this project for at least two years before planting. Neither heeled-in plants nor plants from cold storage will be accepted.

3. Plant Measurements

All plants shall conform to the measurements specified in the Plant Schedule as approved by the ARC.

a. Caliper measurements shall be taken six inches (6") above grade for trees under four-inch (4") caliper and twelve (12") above grade for trees four inches (4") in caliper and over.

b. Minimum branching height for all shade trees shall be six feet (6'), maximum eight feet (8').

c. Caliper, height, spread and size of ball shall be generally as follows:

CALIPER	HEIGHT	SPREAD	SIZE OF BALL
3" – 3.5"	14'–16'	6'–8'	32" diameter
3.5"– 4"	14'–16'	8'–10'	36" diameter
4" – 4.5"	16'–18'	8'–10'	40" diameter
4.5"– 5"	16'–17'	10'–12'	44" diameter
5" – 5.5"	16'–20'	10'–12'	48" diameter
5.5"– 6"	18'–20'	12'–14'	52" diameter

All plant material shall generally average the median for the size ranges indicated above as indicated in the "AAN Standards".

4. Plant Identification

Legible labels shall be attached to all shade trees, minor trees, specimen shrubs and bundles or boxes of other plant material giving the botanical and common names, size and quantity of each. Each shipment of plants shall bear certificates of inspection as required by Federal, State and County authorities.

5. Plant Inspection

The ARC may, upon request by the builder or developer, at least ten (10) days prior to the installation of any proposed plant material, inspect all proposed plant material at the source of origin.

B. Planting Methods

All proposed plant materials that meet the specifications in Section A are to be planted in accordance with the following methods during the proper planting seasons as described in the following:

1. Planting Seasons

The planting of deciduous trees, shrubs and vines shall be from March 1st to June 15th and from September 15th to December 15th. Planting of deciduous material may be continued during the winter months providing there is no frost in the ground and frost-free topsoil planting mixtures are used.

The planting of evergreen material shall be from March 15th to June 15th and from August 15th to December 1st. No planting shall be done when ground is frozen or excessively moist. No frozen or wet topsoil shall be used at any time.

3. Excavation of Plant Pits

The landscaping contractor shall excavate all plant pits, vine pits, hedge trenches and shrub beds in accordance with the following schedule:

a. Locations of all proposed plant material shall be staked and approved in the field by the landscape architect before any of the proposed plant material is installed by the landscape contractor.

b. All pits shall be generally circular in outline, vertical sides; depth shall not be less than 6" deeper than the root ball, diameter shall not be less than two times the diameter of the root ball as set forth in the following schedule.

c. If areas are designated as shrub beds or hedge trenches, they shall be excavated to at least 18" depth minimum. Areas designated for ground covers and vines shall be excavated to at least 12" in depth minimum.

d. Diameter and depth of tree pits shall generally be as follows:

PLANT SIZE	ROOT BALL	PIT DIAMETER	PIT DEPTH
3" – 3.5"cal.	32"	64"	28"
3.5"– 4" cal.	36"	72"	32"
4" – 4.5"cal.	40"	80"	36"
4.5"– 5" cal.	44"	88"	40"
5" – 5.5"cal.	48"	96"	44"
5.5"– 6" cal.	52"	104"	48"

A 20% compaction figure of the soil to be removed is assumed and will be allowed in calculation of extra topsoil. The tabulated pit sizes are for purposes of uniform calculation and shall not override the specified depths below the bottoms of the root balls.

4. Staking, Guying and Wrapping

All plant material shall be staked or guyed, and wrapped in accordance with the following specifications:

a. Stakes: Shall be sound wood 2" x 2" rough sawn oak or similar durable woods, or lengths, minimum 7'–0" for major trees and 5'–0" minimum for minor trees.

b. Wire and Cable: Wire shall be #10 ga. galvanized or bethanized annealed steel wire. For trees over 3" caliper, provide 5/16" turn buckles, eye and eye with 4" take-up. For trees over 5" caliper, provide 3/16", 7 strand cable cadmium plated steel, with galvanized "eye" thimbles of wire and hose on trees up to 3" in caliper.

c. Hose: Shall be new, 2 ply reinforced rubber hose, minimum 1/2" I.D. "Plastic Lock Ties" or "Paul's Trees Braces" may be used in place of wire and hose on trees up to 3" in caliper.

d. All trees under 3" in caliper are to be planted and staked in accordance with the attached "Typical Tree Staking Detail".

5. Plant Pruning, Edging and Mulching

a. Each tree, shrub or vine shall be pruned in an appropriate manner to its particular requirements, in accordance with accepted standard practice. Broken or bruised branches shall be removed with clean cuts flush with the adjacent trunk or branches. All cuts over 1" in diameter shall be painted with an approved antiseptic tree wound dressing.

b. All trenches and shrub beds shall be edged and cultivated to the lines shown on the drawing. The areas around isolated plants shall be edged and cultivated to the full diameter of the pit. Sod which has been removed and stacked shall be used to trim the edges of all excavated areas to the neat lines of the plant pit saucers, the edges of shrub areas, hedge trenches and vine pockets.

c. After cultivation, all plant materials shall be mulched with a 2" layer of fine, shredded pine bark, peat moss, or another approved material over the entire area of the bed or saucer.

6. Plant Inspection and Acceptance

The ARC shall be responsible for inspecting all planting projects on a periodic basis to assure that all work is proceeding in accordance with the approved plans and specifications.

7. Plant Guarantee

All plant material shall be guaranteed for the duration of one full growing season, after final inspection and acceptance of the work in the planting project. Plants shall be alive and in satisfactory growing condition at the end of the guarantee period.

a. For this purpose, the "growing season" shall be that period between the end of the "Spring" planting season, and the commencement of the "Fall" planting season.

b. Guarantee for planting performed after the specified end of the "Spring" planting season, shall be extended through the end of the next following "Spring" planting season.

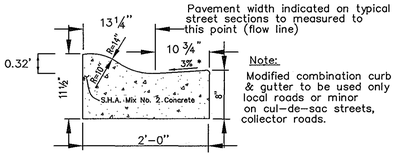
Sodding

All sodding shall be in accordance to the "Landscape Specification Guidelines for Baltimore–Washington metropolitan Areas" latest edition, approved by the Landscape Contractors Association of Metropolitan Washington and the American Society of Landscape Architects.

All sod shall be strongly rooted sod, not less than two years old and free of weeds and undesirable native grasses. Provide only sod capable of growth development when planted and in strips not more than 18" wide x 4" long. Provide sod composed principally of improved strain Kentucky bluegrass, such as, Columbia, Victa, or Escort.

LANDSCAPING NOTES

1. This plan has been prepared in accordance with the New Town Alternative Compliance provisions of Section 16.124 of the Howard County Code and the Howard County Landscape Manual.
2. Contractor shall notify all utilities at least (5) five days before starting work. All General Notes, especially those regarding utilities, on Sheet 1 shall apply.
3. Field verify underground utility locations and existing conditions before starting planting work. Contact engineer / landscape architect if any relocation's are required.
4. Plant quantities shown on Plant List are provided for the convenience of the contractor only. If discrepancies exist between quantities shown on the plan and those shown on the plant list, the quantities on the plan shall take precedence.
5. All plant material shall be full, heavy, well formed, and symmetrical, and conform to the A.A.N. Specifications, and be installed in accordance with project specifications.
6. No substitution shall be made without written consent of the owner or his representative.
7. All areas disturbed by construction activities but not otherwise planted, paved, or mulched shall be seeded or sodded in accordance with the project specifications.
8. The contractor shall notify the owner in writing if he/she encounters soil drainage conditions which may be detrimental to the growth of the plants.
9. All exposed earth within limits of planting beds shall be mulched with shredded hardwood mulch per Planting Details.
10. Financial surety for the required landscaping per schedule A and B shall be posted with the Developer's Agreements in the amount of $2100.00.
11. The owner, tenant, and /or their agents shall be responsible for maintenance of the required landscaping, including both plant materials and berms, fences and walls. All plant materials shall be maintained in good growing condition,and when necessary, replaced with new materials to ensure continued compliance with applicable regulations. All other required landscaping shall be permanently maintained in good condition, and when necessary, repaired or replaced.

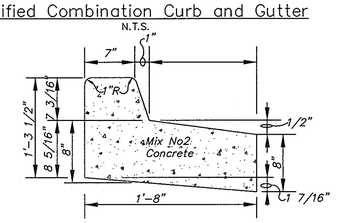


Pavement width indicated on typical street sections to measured to this point (flow line)

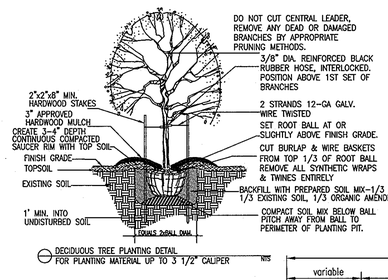
Note:
Modified combination curb & gutter to be used only local roads or minor on cul–de–sac streets, collector roads.

* Gutter pan at the median edge of intermediate arterials or the high side of superelevated sections shall be sloped at the same rate and in the same direction as the pavement. Match pavement cross slope when curb is located on the low side of superelevated section and the rate of superelevation is greater than 3% for modified curb and gutter.

Modified Combination Curb and Gutter
N.T.S.



Reverse 7" Combination Curb & Gutter
N.T.S.



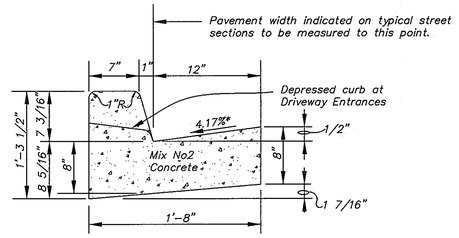
DECIDUOUS TREE PLANTING DETAIL
FOR PLANTING MATERIAL UP TO 3 1/2" CALIPER
NTS

CROSS SECTION 6 ⚠
(STA: 100+50 TO 101+50 MISTY WATER WAY)

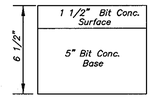
SCHEDULE A PARKING LOT INTERNAL LANDSCAPING	PARCEL A	PARCEL D
Number of Parking Spaces (Provided)	36 ⚠	16
Number of Trees Required (❶ 1 per 10 spaces)	4 ⚠	2
Number of Trees Provided Shade Trees: 6 ⚠ Other Trees: 0 (2:1 substitution)		
Schedule 'A' Number of required Shade Trees for bonding: 6 x $300 = $1,800.00 ⚠		

SCHEDULE B PLANT LIST		COMMON NAME	SIZE
SYMBOL SHRUBS	QUAN.	BOTANICAL NAME COMMON NAME	SIZE
Ⓟ	6 ⚠	QUERCUS PALUSTRIS PIN OAK	2 1/2" – 3" Cal. B&B 7' min. branching ht

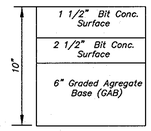
Financial surety for the required landscaping will be posted with the Developer's Agreements in the amount of $1,800.00 ⚠



Standard 7" Combination Curb & Gutter
N.T.S.

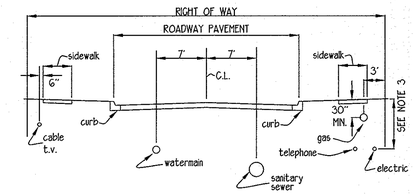


P–2 Full Depth Bituminous Concrete Alternative
N.T.S.

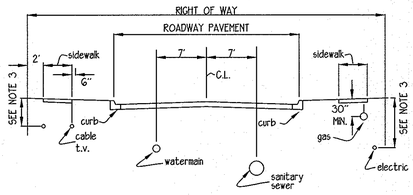


P–2 Granular Base
N.T.S.

Paving Sections
N.T.S.
Note: Other equivalent paving sections may be used where approved by a Geotechnical.



ARRANGEMENT No. 1



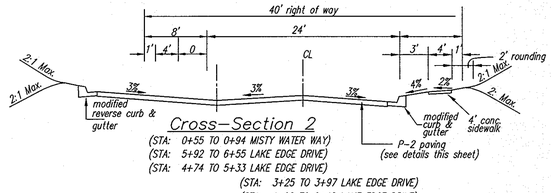
ARRANGEMENT No. 2

NOTES:

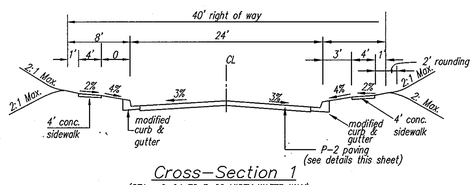
1. THE DEPARTMENT OF PUBLIC WORKS SHALL BE CONSULTED CONCERNING THE UTILITY LOCATIONARRANGEMENT FOR A GIVEN STREET PROJECT.
2. GAS, ELECTRIC AND TELEPHONE LINES MAY BE PLACED IN THE SAME TRENCH AT THE OPTION OF THE BALTIMORE GAS AND ELECTRIC CO. AND BELL ATLANTIC.
3. ELECTRIC: O–GOOV 24" COVER, OVER GOOV 36" COVER.
   TELEPHONE: MAIN SERVICE 24" COVER, RESIDENTIAL
   CONNECTION: 11" COVER
   CABLE T.V.: 11" COVER

NORMAL LOCATIONS OF PUBLIC UTILITIES CLOSED SECTION

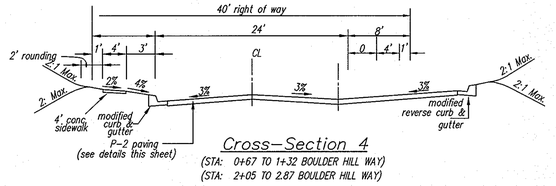
Mo. Co. Maryland
Dept. of Public Works
Volume 111. Roads + Bridges
Figure 2.15



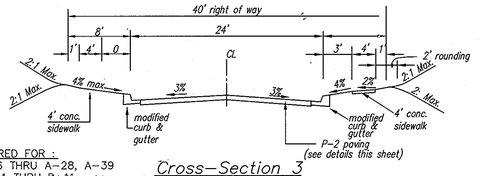
Cross–Section 2
(STA: 0+55 TO 0+94 MISTY WATER WAY)
(STA: 5+92 TO 6+55 LAKE EDGE DRIVE)
(STA: 4+74 TO 5+33 LAKE EDGE DRIVE)
(STA: 3+25 TO 3+97 LAKE EDGE DRIVE)
(STA: 1+68 TO 2+48 LAKE EDGE DRIVE)



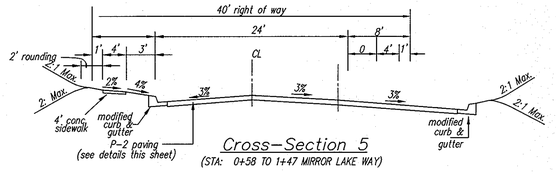
Cross–Section 1
(STA: 0+94 TO 3+00 MISTY WATER WAY)



Cross–Section 4
(STA: 0+67 TO 1+32 BOULDER HILL WAY)
(STA: 2+05 TO 2.87 BOULDER HILL WAY)



Cross–Section 3
(STA: 3+97 TO 4+74 LAKE EDGE DRIVE)
(STA: 0+43 TO 1+68 LAKE EDGE DRIVE)



Cross–Section 5
(STA: 0+58 TO 1+47 MIRROR LAKE WAY)

TYPICAL ROAD SECTIONS – ACCESS STREET (PRIVATE)
Not to Scale

NOTE: THESE REPLACEMENT SHEETS SUPERCEEDES THE PLAN SHEET DATED DEC., 2003

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
PRIVATE ROADS, DRAINS + SWM
Chief, Bureau of Highways — Date

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING + ZONING
Chief, Division of Land Development — Date 5/12/08
Chief, Development Engineering Division — Date 5/16/08

DEVELOPER'S / BUILDER'S CERTIFICATE

I/We certify that the landscaping shown on this plan will be done according to the plan, Section 16.124 of the Howard County Code and the Howard County Landscape manual. I/We further certify that upon completion, a letter indicating that the landscaping has been installed in accordance with the above and will also request an inspection of the landscaping. This letter will be accompanied by an executed one-year guarantee of the installed plant materials. The letter and guarantee will be submitted to the Department of Planning and Zoning, Land Development Division.

Paul G Cavanaugh — Name (Developer's /Builders) — 9/22/05 Date

STATE OF MARYLAND — MARK JAMES TRIPP — 14054 — REGISTERED PROFESSIONAL ENGINEER

OWNER & PREPARED FOR : ⚠
LOTS A–1 THRU A–6, A–26 THRU A–28, A–39 THRU A–63, and D–1 THRU D–14
MILLER & SMITH
8401 GREENSBORO DRIVE, SUITE 300
McLEAN, VIRGINIA 22101
ATTN: COLLEEN DWELLEY
(703) 821–2500 ext. 236
⚠* LOTS A–37, A–38, A–64, A–65, A–66, D–12 THRU D–14

OWNER & PREPARED FOR : ⚠
STONE LAKE COMMUNITY ASSOCIATION, INC.*
C/O THE HOWARD RESEARCH & DEVELOPMENT CORP.
THE ROUSE BUILDING
10275 LITTLE PATUXENT PARKWAY
COLUMBIA, MARYLAND 21044
ATTN.: JOE NECKER
TELE.: (410) 992–6084

Revised Road Construction Plan

GLW GUTSCHICK LITTLE & WEBER, P.A.
CIVIL ENGINEERS, LAND SURVEYORS, LAND PLANNERS, LANDSCAPE ARCHITECTS
3909 NATIONAL DRIVE – SUITE 250 – BURTONSVILLE OFFICE PARK
BURTONSVILLE, MARYLAND 20866
TEL: 301–421–4024 BALT: 410–880–1820 DC/Va: 301–989–2524 FAX: 301–421–4186

L:\CADD\DRAWINGS\99140\ParcelB\ROAD–PLANS\99140adRP4 | DES. BJM | DRN. BJM | CHK. MJT

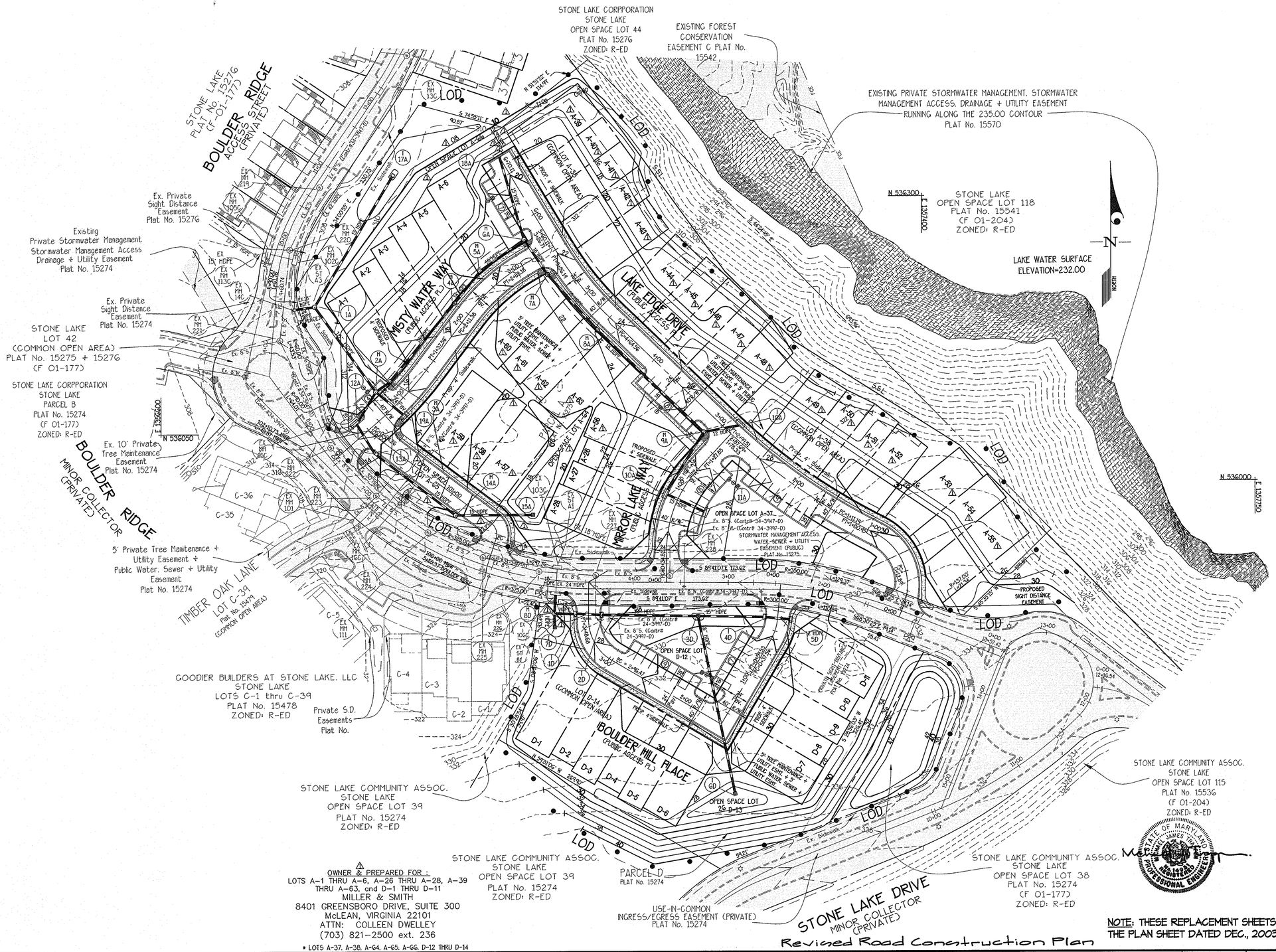
DATE	REVISION	BY	APP'R.
09–08	Changed number of schedule b trees and surety amount. Added cross section for new road. ⚠	BJM	mjt

SITE AND LANDSCAPE DETAILS

⚠ STONE LAKE
LOTS A-1 thru A-6, A-26 thru A-28, A-37 thru A-66, LOTS D-1 thru D-14 AND LOT 122
A RESUBDIVISION OF PARCELS 'A' & 'D' AND OPEN SPACE LOT 38
PLAT No.'s 15274 & 15275
ELECTION DISTRICT No. 6 — HOWARD COUNTY, MARYLAND

SCALE	ZONING	G. L. W. FILE No.
AS SHOWN	NT	99140
DATE	TAX MAP – GRID	SHEET
Sept., 2005	47–9/10 P/O PARCEL 837	4 OF 9

F 04-48



APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

PRIVATE ROADS, DRAINS + SWM

Chief, Bureau of Highways — Date

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING + ZONING

Chief, Division of Land Development — Date 5/16/08

Chief, Development Engineering Division — Date 5/16/08

OWNER & PREPARED FOR :

LOTS A-1 THRU A-6, A-26 THRU A-28, A-39 THRU A-63, and D-1 THRU D-11
MILLER & SMITH
8401 GREENSBORO DRIVE, SUITE 300
McLEAN, VIRGINIA 22101
ATTN: COLLEEN DWELLEY
(703) 821-2500 ext. 236

* LOTS A-37, A-38, A-64, A-65, A-66, D-12 THRU D-14

OWNER & PREPARED FOR :

STONE LAKE COMMUNITY ASSOCIATION, INC.*
C/O THE HOWARD RESEARCH & DEVELOPMENT CORP.
THE ROUSE BUILDING
10275 LITTLE PATUXENT PARKWAY
COLUMBIA, MARYLAND 21044
ATTN.: JOE NECKER
TELE.: (410) 992-6084

NOTE: THESE REPLACEMENT SHEETS SUPERCEEDES THE PLAN SHEET DATED DEC., 2003

Revised Road Construction Plan

GLW GUTSCHICK LITTLE & WEBER, P.A.
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BURTONSVILLE, MARYLAND 20866
TEL.: 301-421-4024 BALT: 410-880-1820 DC/VA: 301-989-2524 FAX: 301-421-4186

L:\CADD\DRAWINGS\99140\ParcelB\ROAD-PLANS\99140odRP5 | DES. BJM | DRN. BJM | CHK. MJT

DATE	REVISION	BY	APP'R.
09-08	REVISED GRADING. ⚠	BJM	mjt

GRADING PLAN

STONE LAKE

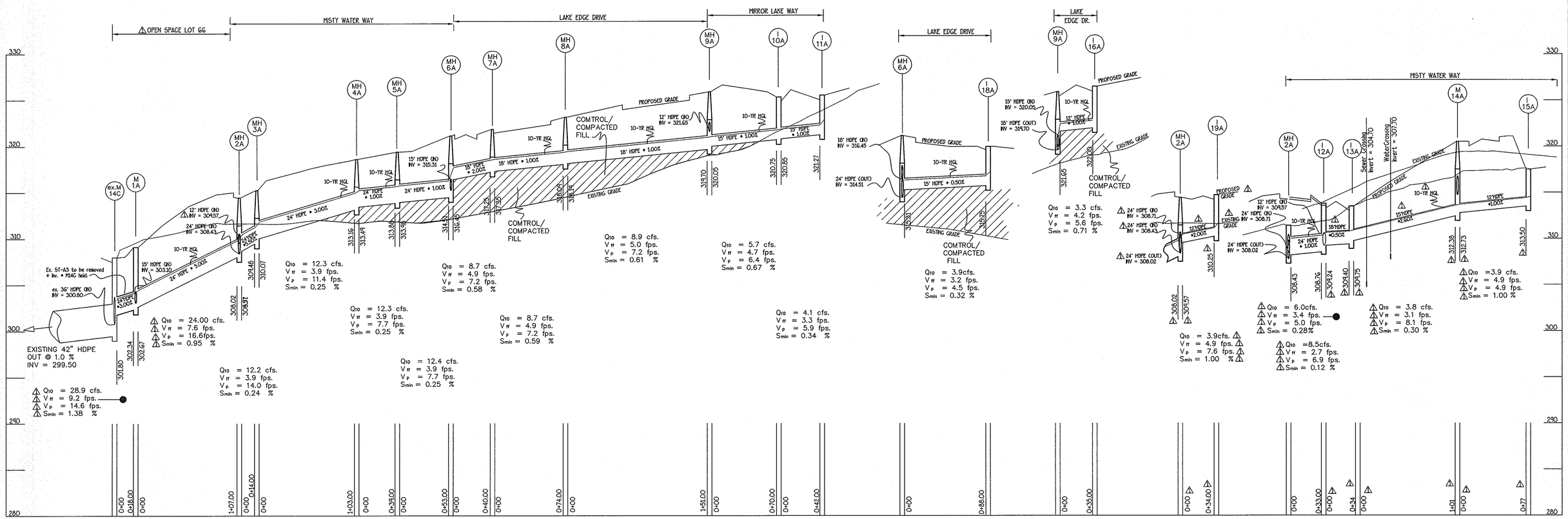
⚠ LOTS A-1 thru A-6, A-26 thru A-28, A-37 thru A-66, LOTS D-1 thru D-14 AND LOT 122 A RESUBDIVISION OF PARCELS 'A' & 'D' AND OPEN SPACE LOT 38

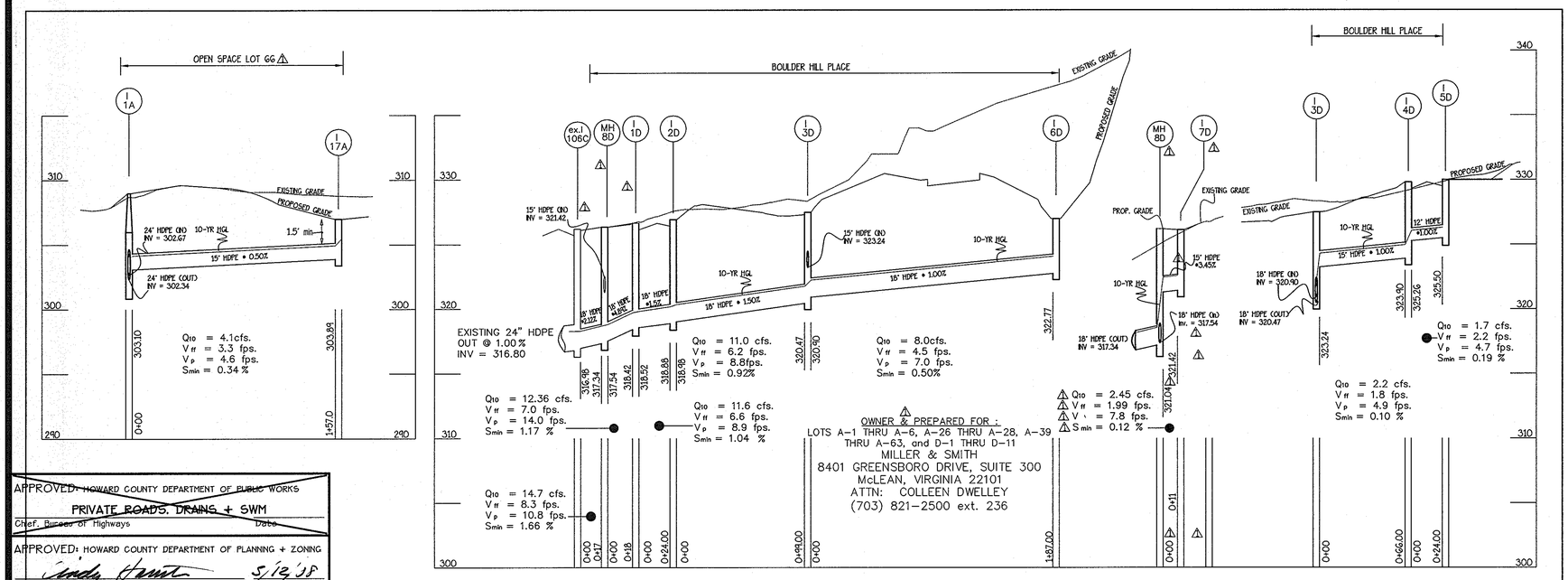
PLAT No.'s 15274 & 15275

ELECTION DISTRICT No. 6 — HOWARD COUNTY, MARYLAND

SCALE	ZONING	G. L. W. FILE No.
1" = 50'	NT	99140
DATE	TAX MAP – GRID	SHEET
Sept., 2005	47-9/10 P/O PARCEL 837	5 OF 9

F 04-48





OWNER & PREPARED FOR :
LOTS A-1 THRU A-6, A-26 THRU A-28, A-39 THRU A-63, and D-1 THRU D-11
MILLER & SMITH
8401 GREENSBORO DRIVE, SUITE 300
McLEAN, VIRGINIA 22101
ATTN: COLLEEN DWELLEY
(703) 821-2500 ext. 236

STRUCTURE SCHEDULE

NO.	TYPE	WIDTH (INSIDE)	TOP ELEVATION UPPER	TOP ELEVATION LOWER	INVERT ELEVATION UPPER	INVERT ELEVATION LOWER	STANDARD DETAIL	LOCATIONS + REMARKS
M-1A	5' Diameter Manhole	5'-0"	309.00	309.00	303.10	302.34	MC G-5.13	See Plans
MH-2A	4' Diameter Manhole	4'-0"	-----	314.97	308.71	308.02	MC G-5.12	0+83.50 22.3L Road MWW
MH-3A	4' Diameter Manhole	4'-0"	-----	315.28	310.07	309.48	MC G-5.12	1+02.5 19.17L Road MWW
MH-4A	4' Diameter Manhole	4'-0"	-----	318.27	313.49	313.16	MC G-5.12	2+11.6 16R Road MWW
MH-5A	4' Diameter Manhole	4'-0"	-----	319.38	313.98	313.88	MC G-5.12	2+51.05 19.17L Road MWW
MH-6A	4' Diameter Manhole	4'-0"	-----	321.00	316.45	314.51	MC G-5.12	5+82.2 20.25L Road LED
MH-7A	4' Diameter Manhole	4'-0"	-----	322.10	317.35	317.25	MC G-5.12	5+39.77 18.5L Road LED
MH-8A	4' Diameter Manhole	4'-0"	-----	323.10	318.19	318.09	MC G-5.12	4+64.50 16L Road LED
MH-9A	4' Diameter Manhole	4'-0"	-----	325.92	321.65	319.70	MC G-5.12	3+09.81 16L Road LED
I-10A	A 10 Precast Inlet	2'-6"	325.36	325.36	320.85	320.75	MC SD-4.02	0+84 12L Road LED
I-11A	A 10 Precast Inlet	2'-6"	325.83	325.83	-----	321.27	MC SD-4.02	0+84 30.5R Road LED
I-12A	A 10 Precast Inlet	2'-6"	313.80	313.48	⚠ 309.24	308.76	MC SD-4.02	0+43.38 12L Road MWW
I-13A	A 10 Precast Inlet	2'-6"	⚠ 314.18	⚠ 313.88	⚠ 309.76	⚠309.41	MC SD-4.02	⚠ 101+87 12R Road MWW
MH-14A	4' Diameter Manhole	4'-0"	-----	⚠ 319.80	⚠ 312.73	⚠312.38	MC G-5.12	⚠ 100+83 16R Road MWW
I-15A	Type 'D' Inlet	2'-6"	-----	⚠ 318.73	-----	⚠313.50	MC SD-4.11	See Plans
I-16A	A 10 Precast Inlet	2'-6"	326.50	326.31	-----	322.00	MC SD-4.02	2+87.68 12R Road LED
I-18A	A 10 Precast Inlet	2'-6"	320.01	320.01	-----	315.75	MC SD-4.02	G+70.11 OR Road LED
I-1D	A 5 Precast Inlet	2'-6"	326.34	326.06	318.52	318.42	MC SD-4.01	3+54.6 12L Road BHP
I-2D	A 5 Precast Inlet	2'-6"	326.67	326.43	318.98	318.88	MC SD-4.01	3+53.4 12R Road BHP
I-3D	Type 'D' Inlet	2'-6"	328.33	327.50	323.24	320.47	MC SD-4.11	See Plans
I-4D	A 5 Precast Inlet	2'-6"	329.55	329.41	325.26	323.90	MC SD-4.01	0+36.2 12R Road BHP
I-5D	A 5 Precast Inlet	2'-6"	329.54	329.41	-----	325.50	MC SD-4.01	0+36.2 12L Road BHP
I-6D	Type 'D' Inlet	2'-6"	326.28	326.28	-----	322.77	MC SD-4.11	See Plans
I-17A	Type 'D' Inlet	2'-6"	307.83	307.83	-----	303.89	MC SD-4.11	See Plans
⚠I-19A	A 10 Precast Inlet	2'-6" ⚠	314.75 ⚠	314.99 ⚠	-----	310.25 ⚠	MC SD-4.02 ⚠	⚠0+87.00 12R Road MWW
⚠I-7D	Type 'D' Inlet	2'-6" ⚠	-----	325.70 ⚠	-----	321.42 ⚠	MC SD-4.11 ⚠	⚠See Plans
⚠8D	4' Diameter Manhole	4'-0" ⚠	-----	326.12 ⚠	321.04	317.34 ⚠	MC G-5.12 ⚠	⚠See Plans

NOTES: 1. ALL STRUCTURES TO BE PRECAST.
2. MWW = MISTY WATER WAY
3. MLW = MIRROR LAKE WAY
4. LED = LAKE EDGE DRIVE
5. BHP = BOULDER HILL PLACE
6. TOP OF STRUCTURE FOR TYPE D INLETS IS TO THE TOP OF THE TOP SLAB.

Pipe Summary Table

Size (in)	Type (-)	Quantity (LF)	Remarks (-)
12.0	HDPE	170 ⚠	ADS N12 or equiv.
15.0	HDPE	559 ⚠	ADS N12 or equiv.
18.0	HDPE	536 ⚠	ADS N12 or equiv.
24.0	HDPE	367	ADS N12 or equiv.

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
PRIVATE ROADS, DRAINS + SWM
Chief, Bureau of Highways — Date

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING + ZONING
Chief, Division of Land Development — Date 5/12/08
Chief, Development Engineering Division — Date 5/6/08

⚠* LOTS A-37, A-38, A-64, A-65, A-66, D-12 THRU D-14

NOTE: THESE REPLACEMENT SHEETS SUPERCEEDES THE PLAN SHEET DATED DEC., 2003
Revised Road Construction Plan

GLW GUTSCHICK LITTLE & WEBER, P.A.
CIVIL ENGINEERS, LAND SURVEYORS, LAND PLANNERS, LANDSCAPE ARCHITECTS
3909 NATIONAL DRIVE – SUITE 250 – BURTONSVILLE OFFICE PARK
BURTONSVILLE, MARYLAND 20866
TEL: 301-421-4024 BALT: 410-880-1820 DC/Va: 301-989-2524 FAX: 301-421-4186

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DATE	REVISION	BY	APP'R.
09-08	ADDED STR I-19A, I-7D AND REALIGNED STORM DRAINS FROM I-12A THRU I-15A. ADDED MH-8D PER ASBUILT. ⚠	BJM	mjt

OWNER & PREPARED FOR : ⚠
STONE LAKE COMMUNITY ASSOCIATION, INC.*
C/O THE HOWARD RESEARCH & DEVELOPMENT CORP.
THE ROUSE BUILDING
10275 LITTLE PATUXENT PARKWAY
COLUMBIA, MARYLAND 21044
ATTN.: JOE NECKER
TELE.: (410) 992-6084

STORM DRAIN PROFILES

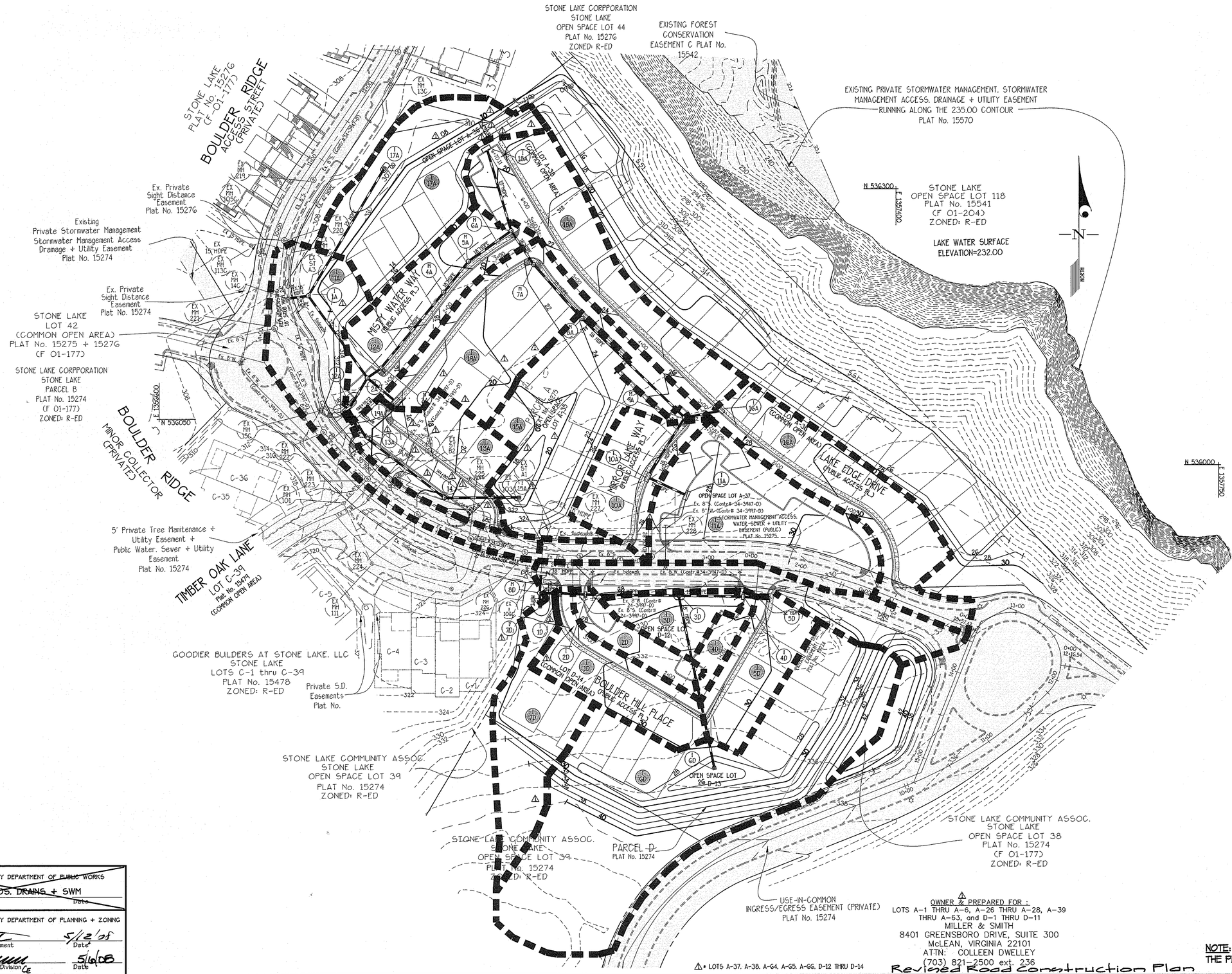
⚠ STONE LAKE

LOTS A-1 thru A-6, A-26 thru A-28, A-37 thru A-66, LOTS D-1 thru D-14 AND LOT 122
A RESUBDIVISION OF PARCELS 'A' & 'D' AND OPEN SPACE LOT 38
PLAT No's 15274 & 15275

ELECTION DISTRICT No. 6 — HOWARD COUNTY, MARYLAND

SCALE	ZONING	G. L. W. FILE No.
H: 1" = 50' V: 1" = 5'	NT	99140
DATE	TAX MAP – GRID	SHEET
Sept., 2005	47-9/10 P/O PARCEL 837	6 OF 9

F 04-48



D.A. Tabulation

Inlet NO.	Area AC.	IMP %	C
I-5D	0.25	85	0.80
I-4D	0.07	85	0.80
I-2D	0.12	85	0.80
I-1D	0.36	85	0.80
I-3D	0.15	85	0.80
I-6D	⚠1.39	85	0.54
I-11A	0.6	85	0.80
I-10A	0.25	85	0.80
I-16A	0.48	85	0.80
I-13A	⚠0.34	85	0.80
I-12A	0.38	85	0.80
I-17A	0.60	85	0.80
I-15A	⚠0.57	85	0.80
I-18A	0.58	85	0.80
ex I-102C	0.33	85	0.80
ex I-106C	0.38	85	0.80
⚠ I-19A	⚠0.57	85⚠	0.80 ⚠
⚠ I-1A	⚠0.20	85⚠	0.80 ⚠
⚠ I-7D	⚠0.36	85⚠	0.80 ⚠

LEGEND

- 600 EXISTING CONTOUR
- 600 PROPOSED CONTOUR
- STORM DRAIN DRAINAGE AREA

APPROVED: ~~HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS~~
PRIVATE ROADS, ~~DRAINS~~ + SWM
Chief, ~~Bureau of~~ Highways — Date

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING + ZONING
Chief, Division of Land Development — Date 5/12/05
Chief, Development Engineering Division — Date 5/10/05

STATE OF MARYLAND
MICHAEL JAMES TROPPE
No. 14822
REGISTERED
PROFESSIONAL ENGINEER

NOTE: THESE REPLACEMENT SHEETS SUPERCEEDES THE PLAN SHEET DATED DEC., 2003

⚠ LOTS A-37, A-38, A-64, A-65, A-66, D-12 THRU D-14

⚠ OWNER & PREPARED FOR :
LOTS A-1 THRU A-6, A-26 THRU A-28, A-39
THRU A-63, and D-1 THRU D-11
MILLER & SMITH
8401 GREENSBORO DRIVE, SUITE 300
McLEAN, VIRGINIA 22101
ATTN: COLLEEN DWELLEY
(703) 821-2500 ext. 236

Revised Road Construction Plan

GLW GUTSCHICK LITTLE & WEBER, P.A.
CIVIL ENGINEERS, LAND SURVEYORS, LAND PLANNERS, LANDSCAPE ARCHITECTS
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TEL: 301-421-4024 BALT: 410-880-1820 DC/VA: 301-989-2524 FAX: 301-421-4186

L:\CADD\DRAWINGS\99140\ParcelB\ROAD-PLANS\99140adRP8 | DES. BJM | DRN. BJM | CHK. MJT

DATE	REVISION	BY	APP'R.
09-08	ADDED STR I-19A + REALIGNED STORM DRAIN I-12A THRU I-15A. GRADING MODIFIED TO ENABLE NEW LOT + ROAD ALIGNMENT⚠	BJM	mjt

OWNER & PREPARED FOR : ⚠
STONE LAKE COMMUNITY ASSOCIATION, INC.*
C/O THE HOWARD RESEARCH & DEVELOPMENT CORP.
THE ROUSE BUILDING
10275 LITTLE PATUXENT PARKWAY
COLUMBIA, MARYLAND 21044
ATTN.: JOE NECKER
TELE.: (410) 992-6084

STORM DRAINAGE AREA MAP

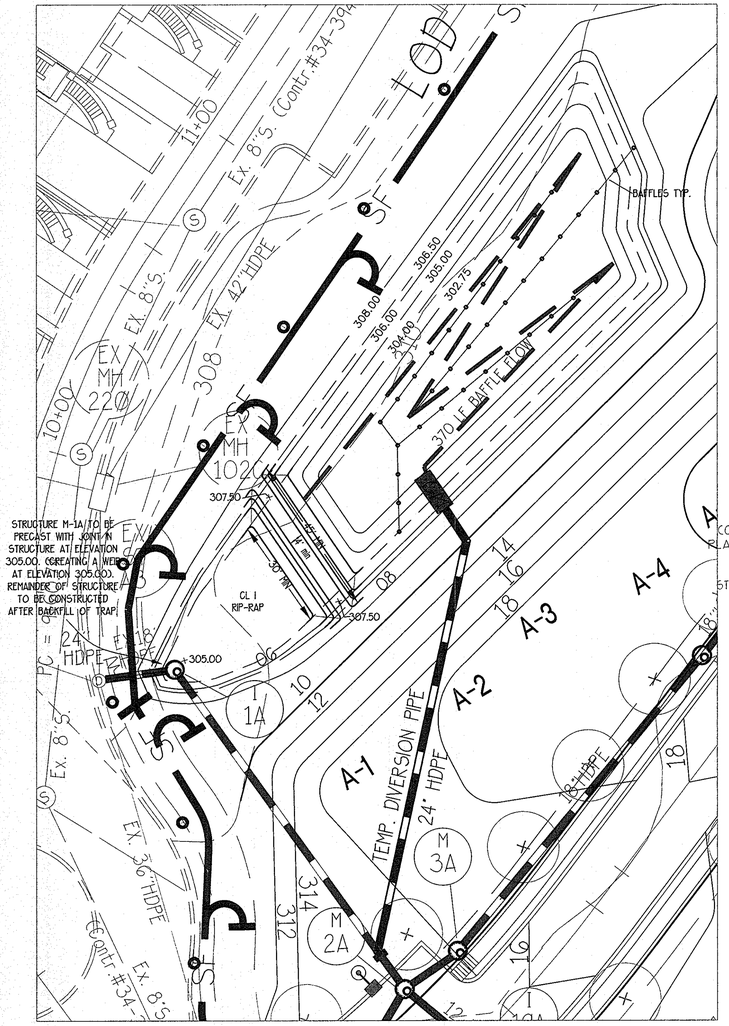
⚠ STONE LAKE

LOTS A-1 thru A-6, A-26 thru A-28, A-37 thru A-66, LOTS D-1 thru D-14 AND LOT 122
A RESUBDIVISION OF PARCELS 'A' & 'D' AND OPEN SPACE LOT 38
PLAT No.'s 15274 & 15275

ELECTION DISTRICT No. 6 — HOWARD COUNTY, MARYLAND

SCALE	ZONING	G. L. W. FILE No.
1" = 50'	NT	99140
DATE	TAX MAP – GRID	SHEET
Sept., 2005	47-9/10 P/O PARCEL 837	7 OF 9

F 04-48

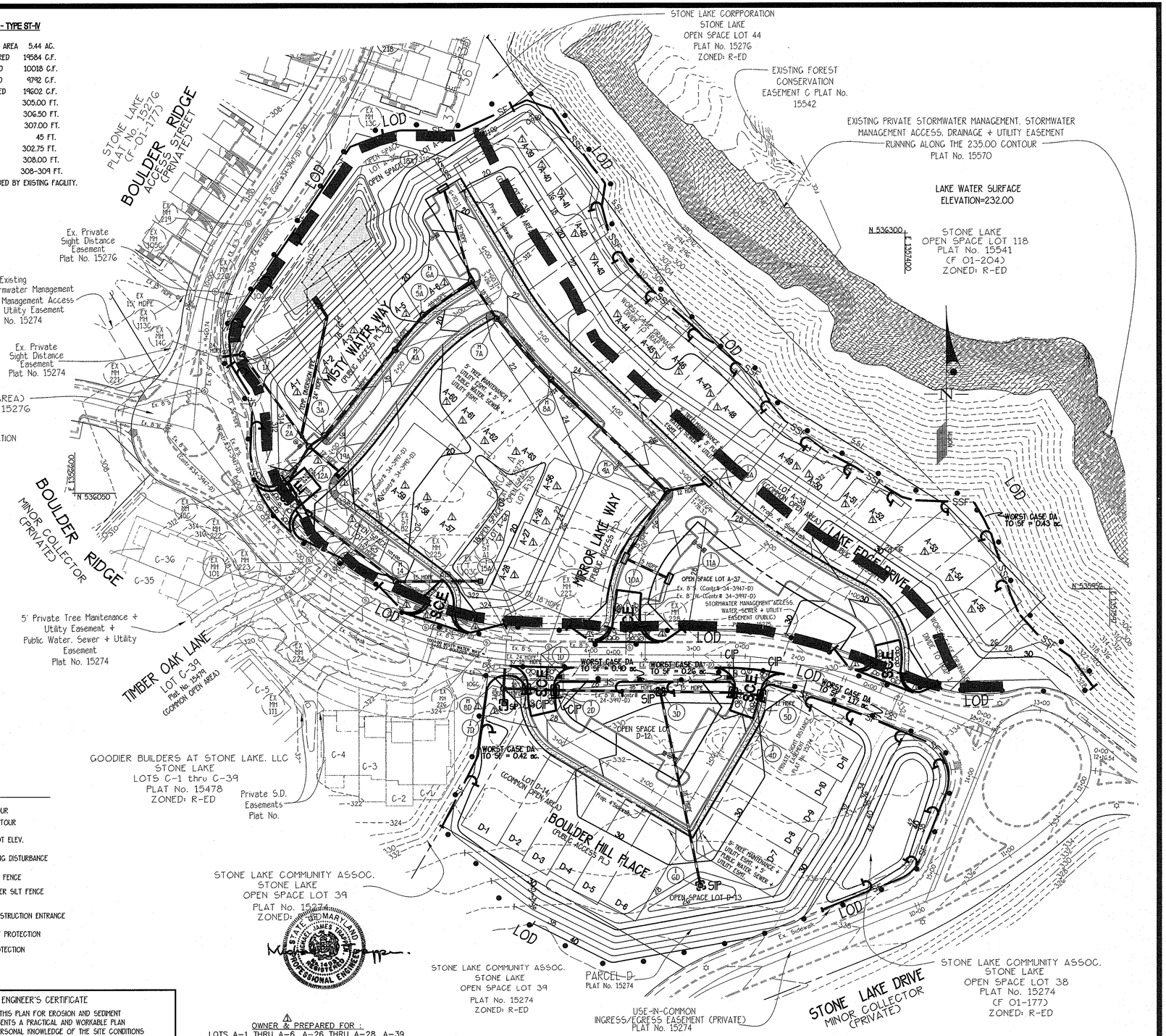


ENLARGEMENT OF SEDIMENT TRAP
SCALE: 1"=20'

SEDIMENT TRAP 1 - TYPE ST-IV

WORST CASE DRAINAGE AREA	5.44 AC.
TOTAL STORAGE REQUIRED	19584 C.F.
WET STORAGE PROVIDED	10018 C.F.
DRY STORAGE PROVIDED	9792 C.F.
TOTAL STORGE PROVIDED	19602 C.F.
LIMIT WET STORAGE	305.00 FT.
LIMIT OF DRY STORAGE	306.50 FT.
TOP OF WEIR	307.00 FT.
WEIR LENGTH	45 FT.
BOTTOM	302.75 FT.
TOP OF DAM	308.00 FT.
EXISTING GRADE	308-309 FT.

TEMPORARY SWM PROVIDED BY EXISTING FACILITY.



SEDIMENT CONTROL LEGEND

--600--	EXISTING CONTOUR
600	PROPOSED CONTOUR
+388.00	PROPOSED SPOT ELEV.
LOD	LIMIT OF GRADING DISTURBANCE
SF	PROPOSED SILT FENCE
SSF	PROPOSED SUPER SILT FENCE
SCE	STABILIZED CONSTRUCTION ENTRANCE
SIP	STANDARD INLET PROTECTION
CIP	CURB INLET PROTECTION

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

HOWARD S.C.D. — DATE

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

NATURAL RESOURCES CONSERVATION SERVICE — DATE

APPROVED: ~~HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS~~
~~PRIVATE ROADS, DRAINS + SWM~~
Chief, Bureau of Highways — Date

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING + ZONING
Chief, Division of Land Development — Date 5/4/05
Chief, Development Engineering Division — Date 5/6/05

DEVELOPER'S/BUILDER'S CERTIFICATE

"I/WE CERTIFY THAT ALL DEVELOPMENT AND/OR 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 MARYLAND DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HSCD."

SIGNATURE OF DEVELOPER/BUILDER — 9/22/05 DATE

ENGINEER'S CERTIFICATE

"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."

Michael J. Trapper 9/22/05
DATE

STATE OF MARYLAND — MICHAEL JAMES TRAPPER — 25618 REGISTERED PROFESSIONAL ENGINEER

⚠ OWNER & PREPARED FOR :
LOTS A-1 THRU A-6, A-26 THRU A-28, A-39 THRU A-63, and D-1 THRU D-11
MILLER & SMITH
8401 GREENSBORO DRIVE, SUITE 300
McLEAN, VIRGINIA 22101
ATTN: COLLEEN DWELLEY
(703) 821-2500 ext. 236
* LOTS A-37, A-38, A-64, A-65, A-66, D-12 THRU D-14

OWNER & PREPARED FOR : ⚠
STONE LAKE COMMUNITY ASSOCIATION, INC.*
C/O THE HOWARD RESEARCH & DEVELOPMENT CORP.
THE ROUSE BUILDING
10275 LITTLE PATUXENT PARKWAY
COLUMBIA, MARYLAND 21044
ATTN.: JOE NECKER
TELE.: (410) 992-6084

NOTE: THESE REPLACEMENT SHEETS SUPERCEEDES THE PLAN SHEET DATED DEC., 2003

Revised Road Construction Plan

THIS PLAN IS FOR SEDIMENT CONTROL PURPOSES ONLY!

DATE	REVISION	BY	APP'R.
09-08	GRADING MODIFIED, SCE ADDED, SILT FENCE RELOCATED.	BJM	mjt

GLW GUTSCHICK LITTLE & WEBER, P.A.
CIVIL ENGINEERS, LAND SURVEYORS, LAND PLANNERS, LANDSCAPE ARCHITECTS
3909 NATIONAL DRIVE – SUITE 250 – BURTONSVILLE OFFICE PARK
BURTONSVILLE, MARYLAND 20866
TEL.: 301-421-4024 BALT: 410-880-1820 DC/VA: 301-989-2524 FAX: 301-421-4186

L:\CADD\DRAWINGS\99140\ParcelB\ROAD-PLANS\99140adRPB | DES. BJM | DRN. BJM | CHK. MJT

SEDIMENT & EROSION CONTROL PLAN

STONE LAKE

⚠ **LOTS A-1 thru A-6, A-26 thru A-28, A-37 thru A-66, LOTS D-1 thru D-14 AND LOT 122**
A RESUBDIVISION OF PARCELS 'A' & 'D' AND OPEN SPACE LOT 38
PLAT No.'s 15274 & 15275

ELECTION DISTRICT No. 6 — HOWARD COUNTY, MARYLAND

SCALE	ZONING	G. L. W. FILE No.
1" = 50'	NT	99140
DATE	TAX MAP - GRID	SHEET
Sept., 2005	47-9/10 P/O PARCEL 837	8 OF 9

F-04-48

SEDIMENT CONTROL NOTES

1. A MINIMUM OF 24 HOURS NOTICE MUST BE GIVEN TO THE HOWARD COUNTY OFFICE OF INSPECTION AND PERMITS PRIOR TO THE START OF ANY CONSTRUCTION. (410) 313-1855

2. ALL VEGETATIVE AND STRUCTURAL PRACTICES ARE TO BE INSTALLED ACCORDING TO THE PROVISIONS OF THIS PLAN AND ARE TO BE IN CONFORMANCE WITH THE 1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL AND REVISIONS THERETO.

3. FOLLOWING INITIAL SOIL DISTURBANCE OR REDISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN: A) 7 CALENDAR DAYS FOR ALL PERIMETER SEDIMENT CONTROL STRUCTURES, DIKES AND PERIMETER SLOPES AND ALL SLOPES GREATER THAN 3:1. B) 14 DAYS AS TO ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE.

4. ALL SEDIMENT TRAPS/BASINS SHOWN MUST BE FENCED AND WARNING SIGNS POSTED AROUND THEIR PERIMETER IN ACCORDANCE WITH VOL. 1, CHAPTER 12, OF THE HOWARD COUNTY DESIGN MANUAL, STORM DRAINAGE.

5. ALL DISTURBED AREAS MUST BE STABILIZED WITHIN THE TIME PERIOD SPECIFIED ABOVE IN ACCORDANCE WITH THE 1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL FOR PERMANENT SEEDINGS, SOD, TEMPORARY SEEDINGS AND MULCHING (SEC. G). TEMPORARY STABILIZATION, WITH MULCH ALONE, CAN ONLY BE DONE WHEN RECOMMENDED SEEDING DATES DO NOT ALLOW FOR PROPER GERMINATION 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	:	7.71 ACRES
AREA DISTURBED	:	7.13 ACRES
AREA TO BE ROOFED OR PAVED	:	1.06 ACRES
AREA TO BE VEGETATIVELY STABILIZED	:	6.07 ACRES
TOTAL CUT	:	12,000 CU. YDS.
TOTAL FILL	:	12,000 CU. YDS.
OFF-SITE WASTE/BORROW AREA LOCATION:		n/a

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 CONTROL MUST BE PROVIDED, IF DEEMED NECESSARY BY THE HOWARD COUNTY DPW SEDIMENT CONTROL INSPECTOR.

10. ON ALL SITES WITH DISTURBED AREAS IN EXCESS OF 2 ACRES, APPROVAL OF THE INSPECTION AGENCY SHALL BE REQUESTED UPON COMPLETION OF INSTALLATION OF PERIMETER EROSION AND SEDIMENT CONTROLS, BUT BEFORE PROCEEDING WITH ANY OTHER EARTH DISTURBANCE OR GRADING. OTHER BUILDING OR GRADING INSPECTION APPROVALS MAY NOT BE AUTHORIZED UNTIL THIS INITIAL APPROVAL BY THE INSPECTION AGENCY IS MADE.

11. TRENCHES FOR THE CONSTRUCTION OF UTILITIES IS LIMITED TO 3 PIPE LENGTHS OR THAT WHICH SHALL BE BACKFILLED AND STABILIZED WITHIN 1 WORKING DAY, WHICHEVER IS SHORTER.

ENGINEER'S CERTIFICATE

"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."

Michael J. Trapper — 9/22/05
ENGINEER'S SIGNATURE — DATE

BUILDER'S CERTIFICATE

"I/WE CERTIFY THAT ALL DEVELOPMENT AND/OR 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 MARYLAND DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTORIZE PERIODIC ON-SITE INSPECTION BY THE HSCD."

Paul G. Cavanaugh — 9/22/05
SIGNATURE OF DEVELOPER/BUILDER — DATE

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

HOWARD S.C.D. — DATE

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

NATURAL RESOURCES CONSERVATION SERVICE — DATE

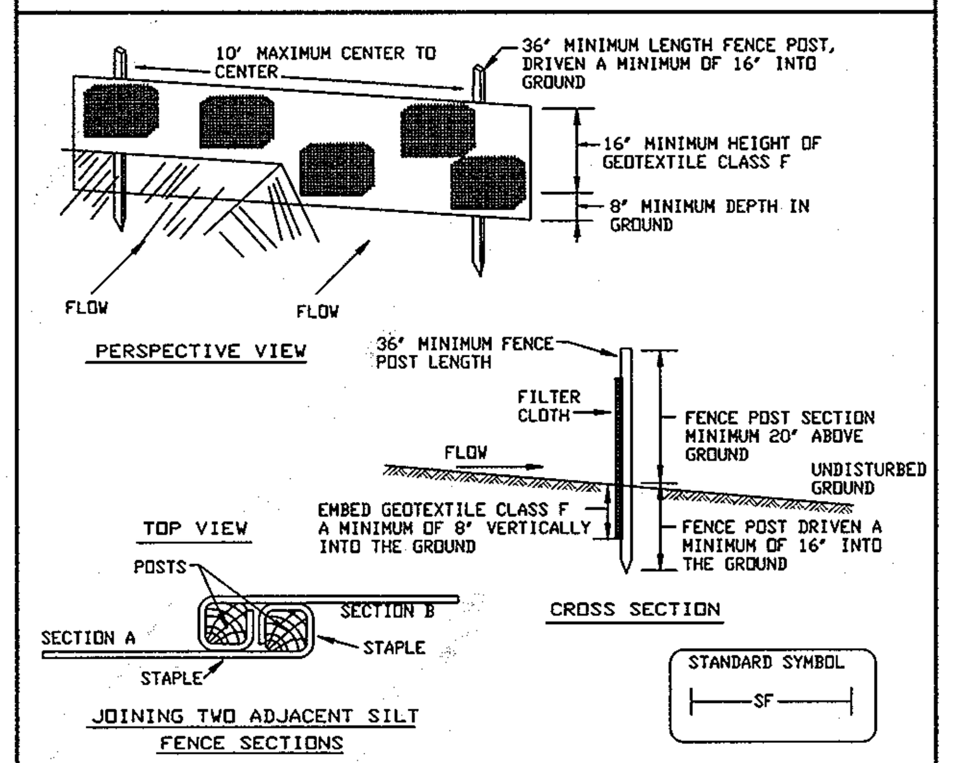
~~APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS~~
~~PRIVATE ROADS, DRAINS + SWM~~
~~Chief, Bureau of Highways — Date~~

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING + ZONING

Cindy Hamilton — 5/12/08
Chief, Division of Land Development — Date

5/6/08
Chief, Development Engineering Division CE — Date

DETAIL 22 – SILT FENCE



Construction Specifications

1. Fence posts shall be a minimum of 36" long driven 16" minimum into the ground. Wood posts shall be 11/2" x 11/2" square (minimum) cut, or 13/4" diameter (minimum) round and shall be of sound quality hardwood. Steel posts will be standard T or U section weighting not less than 1.00 pond per linear foot.

2. Geotextile shall be fastened securely to each fence post with wire ties or staples at top and mid-section and shall meet the following requirements for Geotextile Class F:

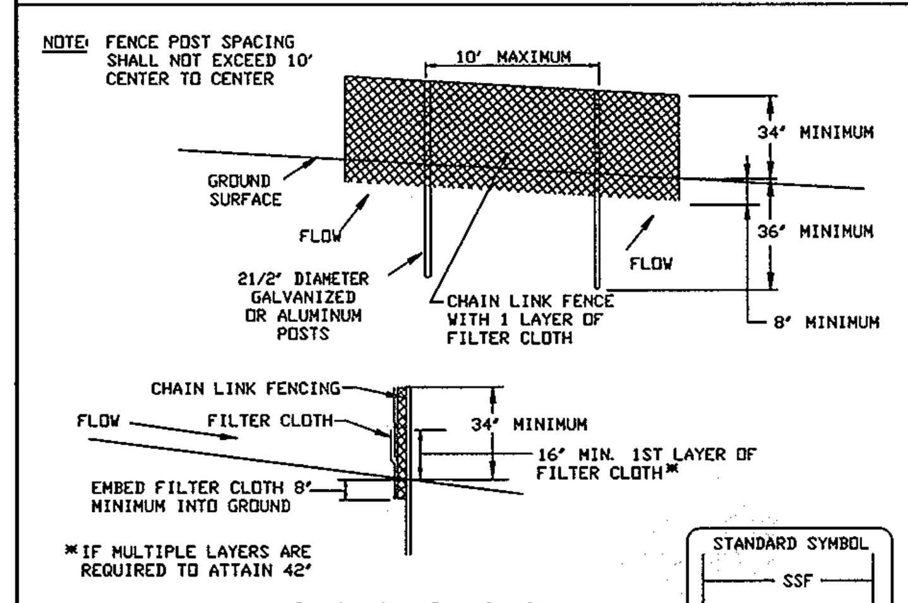
Tensile Strength	50 lbs/in (min.)	Test: MSMT 509
Tensile Modulus	20 lbs/in (min.)	Test: MSMT 509
Flow Rate	0.3 gal ft²/ minute (max.)	Test: MSMT 322
Filtering Efficiency	75% (min.)	Test: MSMT 322

3. Where ends of geotextile fabric come together, they shall be overlapped, folded and stapled to prevent sediment bypass.

4. Silt Fence shall be inspected after each rainfall event and maintained when bulges occur or when sediment accumulation reached 50% of the fabric height.

U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE	PAGE E - 15 - 3	MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION

DETAIL 33 – SUPER SILT FENCE



Construction Specifications

1. Fencing shall be 42" in height and constructed in accordance with the latest Maryland State Highway Details for Chain Link Fencing. The specification for a 6' fence shall be used, substituting 42" fabric and 6' length posts.

2. Chain link fence shall be fastened securely to the fence posts with wire ties. The lower tension wire, brace and truss rods, drive anchors and post caps are not required except on the ends of the fence.

3. Filter cloth shall be fastened securely to the chain link fence with ties spaced every 24" at the top and mid section.

4. Filter cloth shall be embedded a minimum of 8" into the ground.

5. When two sections of filter cloth adjoin each other, they shall be overlapped by 6" and folded.

6. Maintenance shall be performed as needed and silt buildups removed when "bulges" develop in the silt fence, or when silt reaches 50% of fence height

7. Filter cloth shall be fastened securely to each fence post with wire ties or staples at top and mid section and shall meet the following requirements for Geotextile Class F:

Tensile Strength	50 lbs/in (min.)	Test: MSMT 509
Tensile Modulus	20 lbs/in (min.)	Test: MSMT 509
Flow Rate	0.3 gal/ft²/minute (max.)	Test: MSMT 322
Filtering Efficiency	75% (min.)	Test: MSMT 322

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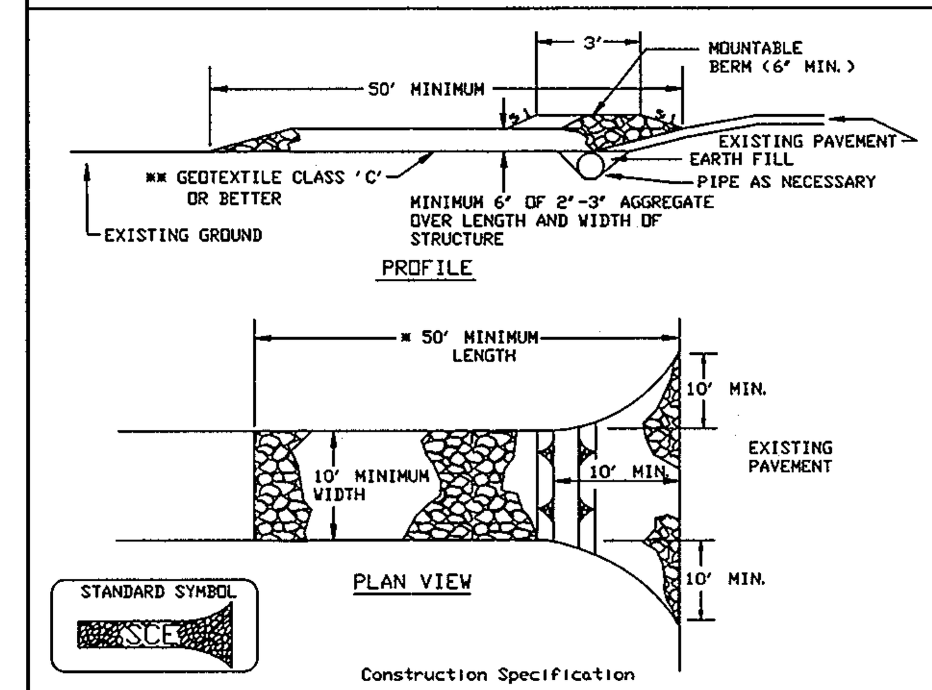
DETAIL 24 – STABILIZED CONSTRUCTION ENTRANCE



Construction Specification

1. Length - minimum of 50' (*30' for single residence lot).

2. Width - 10' minimum, should be flared at the existing road to provide a turning radius.

3. Geotextile fabric (filter cloth) shall be placed over the existing ground prior to placing stone. **The plan approval authority may not require single family residences to use geotextile.

4. Stone - crushed aggregate (2" to 3") or reclaimed or recycled concrete equivalent shall be placed at least 6" deep over the length and width of the entrance.

5. Surface Water - all surface water flowing to or diverted toward construction entrances shall be piped through the entrance, maintaining positive drainage. Pipe installed through the stabilized construction entrance shall be protected with a mountable berm with 5:1 slopes and a minimum of 6" of stone over the pipe. Pipe has to be sized according to the drainage. When the SCE is located at a high spot and has no drainage to convey a pipe will not be necessary. Pipe should be sized according to the amount of runoff to be conveyed. A 6" minimum will be required.

6. Location - A stabilized construction entrance shall be located at every point where construction traffic enters or leaves a construction site. Vehicles leaving the site must travel over the entire length of the stabilized construction entrance.

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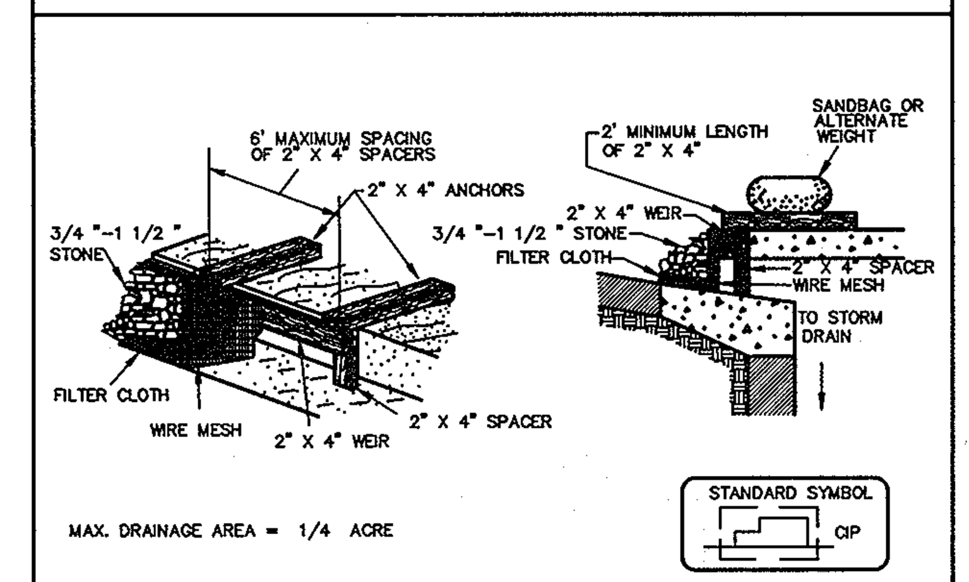
DETAIL 23C – CURB INLET PROTECTION (COG OR COS INLETS)



Construction Specifications

1. Attach a continuous piece of wire mesh (30" minimum width by throat length plus 4') to the 2" x 4" weir (measuring throat length plus 2') as shown on the standard drawing.

2. Place a continuous piece of Geotextile Class E the same dimensions as the wire mesh over the wire mesh and securely attach it to the 2" x 4" weir.

3. Securely nail the 2" X 4" weir to a 9" long vertical spacer to be located between the weir and the inlet face (max. 4' apart).

4. Place the assembly against the inlet throat and nail (minimum 2' lengths of 2" x 4" to the top of the weir at spacer locations). These 2" x 4" anchors shall extend across the inlet top and be held in place by sandbags or alternate weight.

5. The assembly shall be placed so that the end spacers are a minimum 1' beyond both ends of the throat opening.

6. Form the 1/2 " x 1/2 " wire mesh and the geotextile fabric to the concrete gutter and against the face of the curb on both sides of the inlet. Place clean 3/4 " x 1 1/2 " stone over the wire mesh and geotextile in such a manner to prevent water from entering the inlet under or around the geotextile.

7. This type of protection must be inspected frequently and the filter cloth and stone replaced when clogged with sediment.

8. Assure that storm flow does not bypass the inlet by installing a temporary earth or asphalt dike to direct the flow to the inlet.

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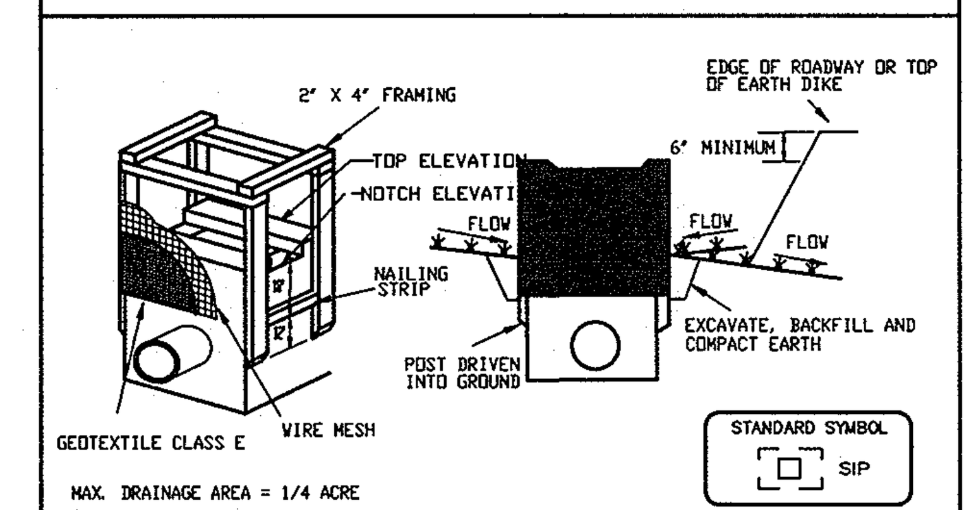
DETAIL 23A – STANDARD INLET PROTECTION



Construction Specifications

1. Excavate completely around the inlet to a depth of 18" below the notch elevation.

2. Drive the 2" x 4" construction grade lumber posts 1' into the ground at each corner of the inlet. Place nail strips between the posts on the ends of the inlet. Assemble the top portion of the 2" x 4" frame using the overlap joint shown on Detail 23A. The top of the frame (weir) must be 6" below adjacent roadways where flooding and safety issues may arise.

3. Stretch the 1/2" x 1/2" wire mesh tightly around the frame and fasten securely. The ends must meet and overlap at a post.

4. Stretch the Geotextile Class E tightly over the wire mesh with the geotixtile extending from the top of the frame to 18" below the inlet notch elevation. Fasten the geotextile firmly to the frame. The ends of the geotextile must meet at a post, be overlapped and folded, then fastened down.

5. Backfill around the inlet in compacted 6" layers until the layer of earth is level with the notch elevation on the ends and top elevation on the sides.

6. If the inlet is not in a sump, construct a compacted earth dike across the ditch line directly below it. The top of the earth dike should be at least 6" higher than the top of the frame.

7. The structure must be inspected periodically and after each rain and the geotextile replaced when it becomes clogged.

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PERMANENT SEEDING NOTES

APPLY TO GRADED OR CLEARED AREA NOT SUBJECT TO IMMEDIATE FURTHER DISTURBANCE WHERE A PERMANENT LONG-LIVED VEGETATIVE COVER IS NEEDED.

SEEDBED PREPARATION: LOOSEN UPPER THREE INCHES OF SOIL BY RAKING, DISCING OR OTHER ACCEPTABLE MEANS BEFORE SEEDING (UNLESS PREVIOUSLY LOOSENED).

SOIL AMENDMENTS: IN LIEU OF SOIL TEST RECOMMENDATIONS, USE ONE OF THE FOLLOWING SCHEDULES

1) PREFERRED - APPLY 2 TONS PER ACRE DOLOMITIC LIMESTONE (92 LBS/1000 SQUARE FEET) AND 600 LBS PER ACRE 10-10-10 FERTILIZER (14 LBS/1000 SQ FT) BEFORE SEEDING. HARROW OR DISC INTO UPPER THREE INCHES OF SOIL. AT TIME OF SEEDING, APPLY 400 LBS PER ACRE 30-0-0 UREA-FORM FERTILIZER (9 LBS/1000 SQ FT).

2) ACCEPTABLE - APPLY 2 TONS PER ACRE DOLOMITIC LIMESTONE (92 LBS/1000 SQ FT) AND 1000 LBS PER ACRE OF 10-10-10 FERTILIZER (23 LBS/1000 SQ FT) BEFORE SEEDING. HARROW OR DISC INTO UPPER THREE INCHES OF SOIL.

SEEDING: FOR THE PERIODS MARCH 1 THRU APRIL 30, AND AUGUST 1 THRU OCTOBER 15, SEED WITH 60 LBS PER ACRE (1.4 LBS/1000 SQ FT) OF KENTUCKY 31 TALL FESCUE. FOR THE PERIOD MAY 1 THRU JULY 31, SEED WITH 60 LBS KENTUCKY 31 TALL FESCUE PER ACRE AND 2 LBS PER ACRE (.05 LBS/1000 SQ FT) OF WEEPING LOVEGRASS. DURING THE PERIOD OF OCTOBER 16 THRU FEBRUARY 28, PROTECT SITE BY: OPTION (1) 2 TONS PER ACRE OF WELL ANCHORED STRAW MULCH AND SEED AS SOON AS POSSIBLE IN THE SPRING. OPTION (2) USE SOD. OPTION (3) SEED WITH 60 LBS/ACRE KENTUCKY 31 TALL FESCUE AND MULCH WITH 2 TONS/ACRE WELL ANCHORED STRAW.

MULCHING: APPLY 1-1/2 TO 2 TONS PER ACRE (70 TO 90 LBS/1000 SQ FT) OF UNROTTED SMALL GRAIN STRAW IMMEDIATELY AFTER SEEDING. ANCHOR MULCH IMMEDIATELY AFTER APPLICATION USING MULCH ANCHORING TOOL OR 218 GALLONS PER ACRE (5 GAL/1000 SQ FT) OF EMULSIFIED ASPHALT ON FLAT AREAS. ON SLOPES 8 FEET OR HIGHER, USE 348 GALLONS PER ACRE (8 GAL/1000 SQ FT) FOR ANCHORING.

MAINTENANCE: INSPECT ALL SEEDED AREAS AND MAKE NEEDED REPAIRS, REPLACEMENTS AND RESEEDINGS.

TEMPORARY SEEDING NOTES

APPLY TO GRADED OR CLEARED AREAS LIKELY TO BE REDISTURBED WHERE A SHORT-TERM VEGETATIVE COVER IS NEEDED.

SEEDBED PREPARATION: LOOSEN UPPER THREE INCHES OF SOIL BY RAKING, DISCING OR OTHER ACCEPTABLE MEANS BEFORE SEEDING (UNLESS PREVIOUSLY LOOSENED).

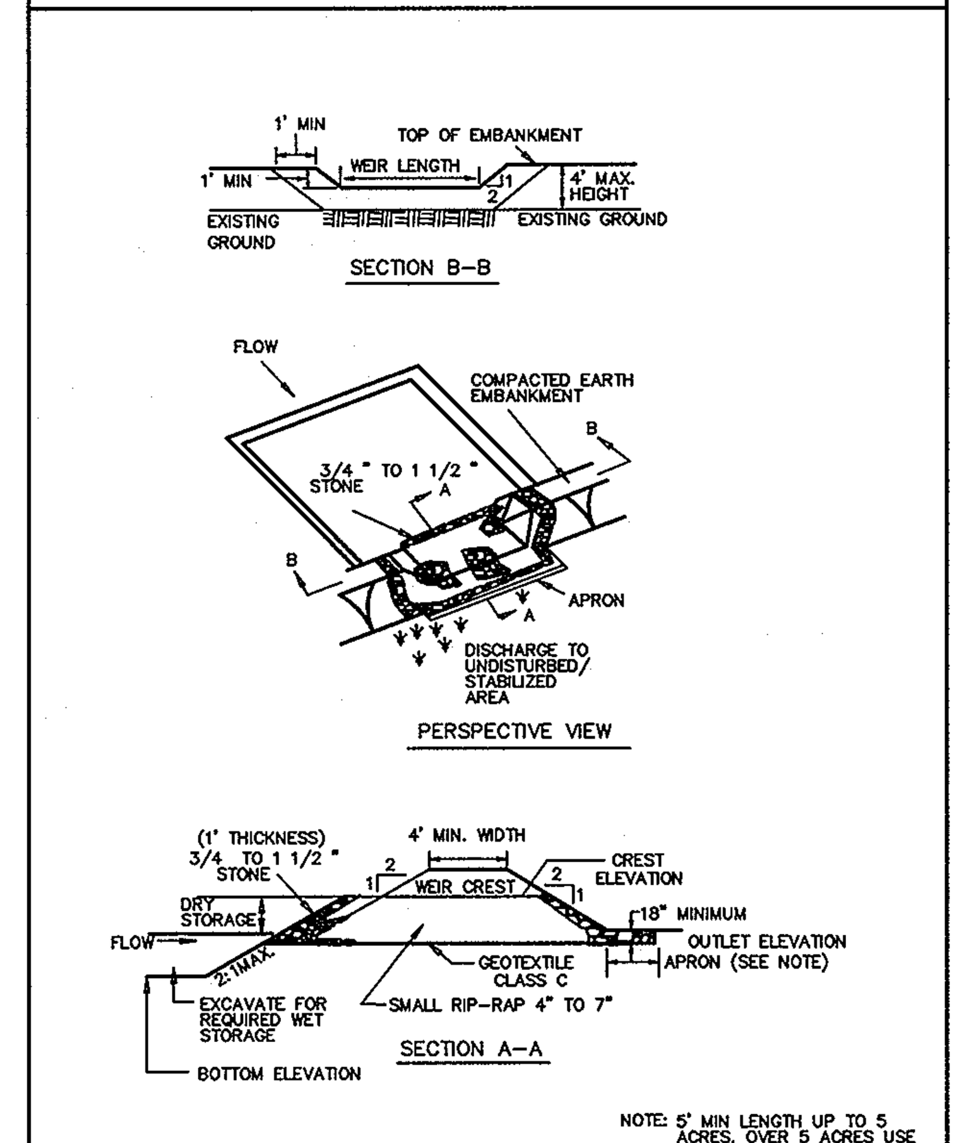
SOIL AMENDMENTS: APPLY 600 LBS PER ACRE 10-10-10 FERTILIZER (14 LBS/1000 SQ FT).

SEEDING: FOR PERIODS MARCH 1 THRU APRIL 30 AND FROM AUGUST 15 THRU OCTOBER 15, SEED WITH 2-1/2 BUSHEL PER ACRE OF ANNUAL RYE (3.2 LBS./1000 SQ.FT.). FOR THE PERIOD MAY 1 THRU AUGUST 14, SEED WITH 3 LBS PER ACRE OF WEEPING LOVEGRASS (.07 LBS/1000 SQ FT). FOR THE PERIOD NOVEMBER 16 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, OR USE SOD.

MULCHING: APPLY 1-1/2 TO 2 TONS PER ACRE (70 TO 90 LBS/1000 SQ FT) OF UNROTTED, WEED-FREE, SMALL GRAIN STRAW IMMEDIATELY AFTER SEEDING. ANCHOR MULCH IMMEDIATELY AFTER APPLICATION USING MULCH ANCHORING TOOL OR 218 GAL PER ACRE (5 GAL/1000 SQ FT) OF EMULSIFIED ASPHALT ON FLAT AREAS. ON SLOPES, 8 FT OR HIGHER, USE 348 GAL PER ACRE (8 GAL/1000 SQ FT) FOR ANCHORING.

REFER TO THE 1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL FOR RATE AND METHODS NOT COVERED.

DETAIL 10A-STONE / RIP-RAP OUTLET SEDIMENT TRAP-ST IV



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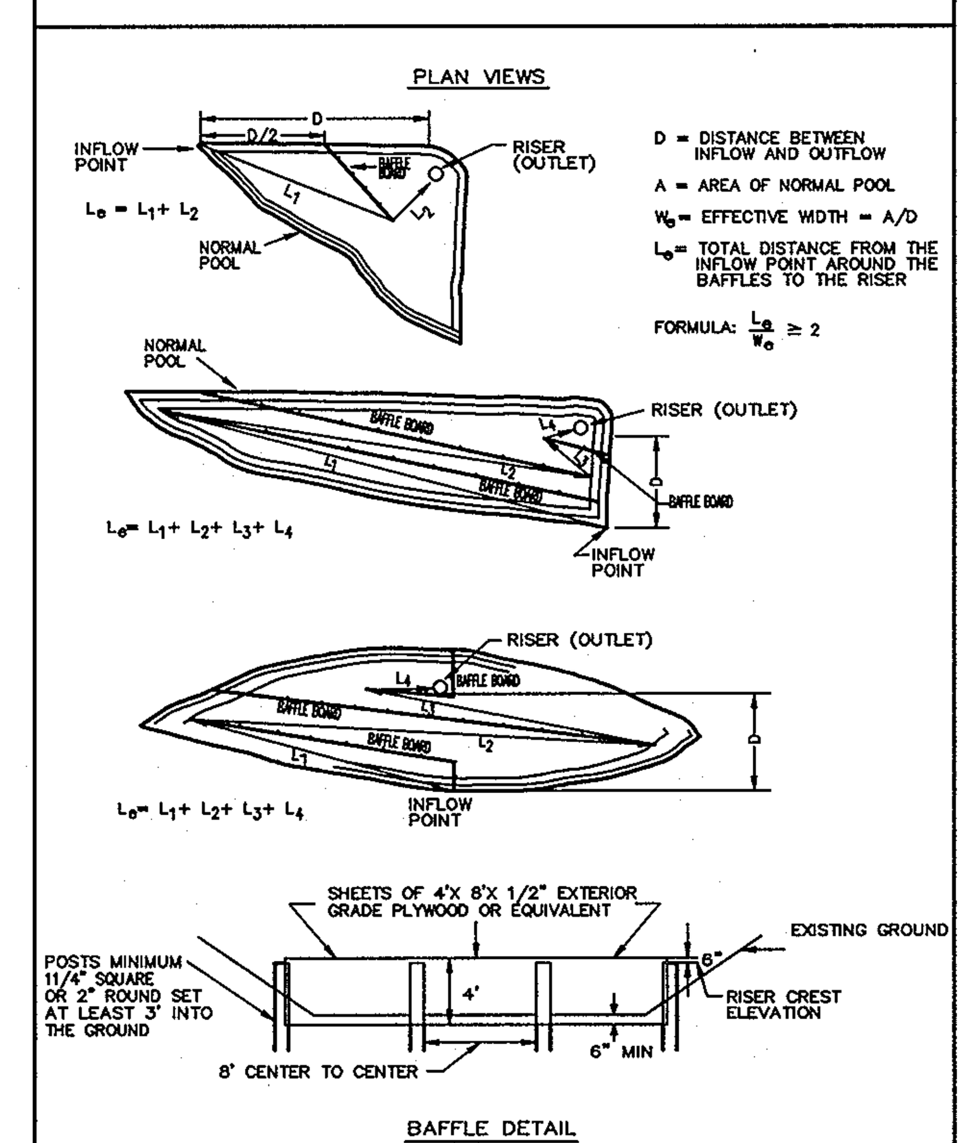
DETAIL 18 – SEDIMENT BASIN BAFFLES



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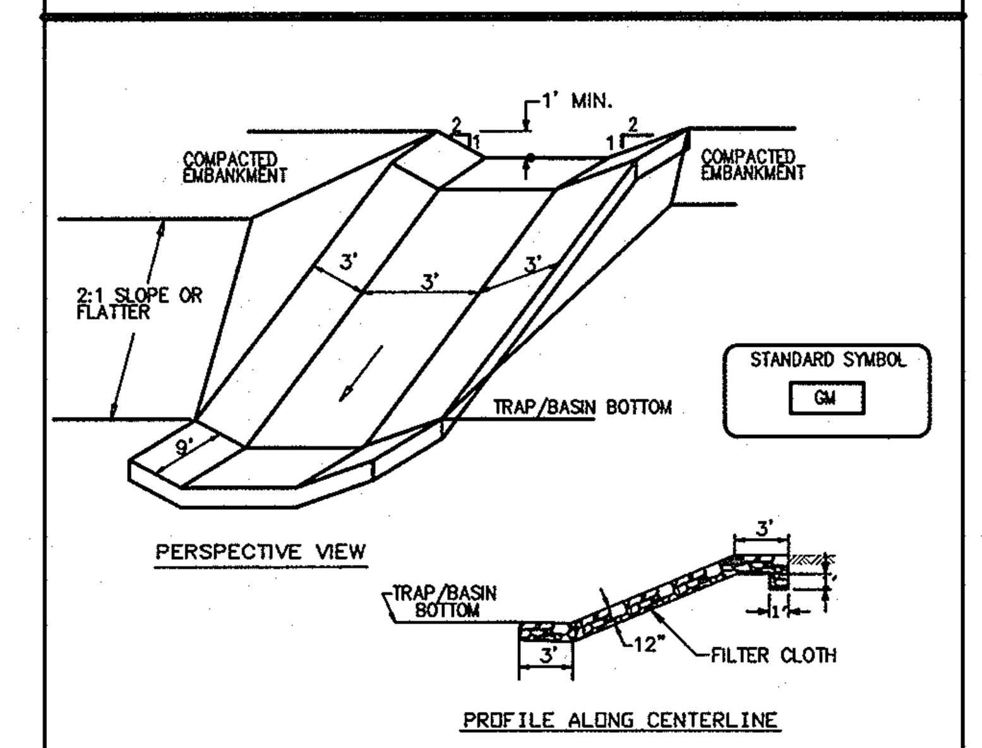
DETAIL 6 – GABION INFLOW PROTECTION



Construction Specifications

1. Gabion inflow protection shall be constructed of 9' x 3' x 9' gabion baskets forming a trapezoidal cross section 1' deep, with 2:1 side slopes, and a 3' bottom width.

2. Geotextile Class C shall be installed under all gabion baskets.

3. The stone used to fill the gabion baskets shall be 4" - 7".

4. Gabions shall be installed in accordance with manufacturers recommendations.

5. Gabion Inflow Protection shall be used where concentrated flow is present on slopes steeper than 4:1.

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STANDARD AND SPECIFICATIONS FOR TOPSOIL

DEFINITION

PLACEMENT OF TOPSOIL OVER A PREPARED SUBSOIL PRIOR TO ESTABLISHMENT OF PERMANENT VEGETATION.

PURPOSE

TO PROVIDE A SUITABLE SOIL MEDIUM FOR VEGETATIVE GROWTH. SOILS OF CONCERN HAVE LOW MOISTURE CONTENT, LOW NUTRIENT LEVELS, LOW PH, MATERIALS TOXIC TO PLANTS, AND/OR UNACCEPTABLE SOIL GRADATION.

CONDITIONS WHERE PRACTICE APPLIES

I. THIS PRACTICE IS LIMITED TO AREAS HAVING 2:1 OR FLATTER SLOPE WHERE:

A. THE TEXTURE OF THE EXPOSED SUBSOIL/PARENT MATERIAL IS NOT ADEQUATE TO PRODUCE VEGETATIVE GROWTH.

B. THE SOIL MATERIAL IS SO SHALLOW THAT THE ROOTING ZONE IS NOT DEEP ENOUGH TO SUPPORT PLANTS OR FURNISH CONTINUING SUPPLIED OF MOISTURE AND PLANT NUTRIENTS.

C. THE ORIGINAL SOIL TO BE VEGETATED CONTAINS MATERIAL TOXIC TO PLANT GROWTH.

D. THE SOIL IS SO ACIDIC THAT TREATMENT WITH LIMESTONE IS NOT FEASIBLE.

II. FOR THE PURPOSE OF THESE STANDARDS AND SPECIFICATIONS, AREAS HAVING SLOPES STEEPER THAN 2:1 REQUIRE SPECIAL CONSIDERATION AND DESIGN FOR ADEQUATE STABILIZATION. AREAS HAVING SLOPES STEEPER THAN 2:1 SHALL HAVE THE APPROPRIATE STABILIZATION SHOWN ON THE PLANS.

CONSTRUCTION AND MATERIAL SPECIFICATIONS

I. TOPSOIL SALVAGED FROM THE EXISTING SITE MAY BE USED PROVIDED THAT IT MEETS THE STANDARDS AS SET FORTH IN THESE SPECIFICATIONS. TYPICALLY, THE DEPTH OF TOPSOIL TO BE SALVAGED FOR A GIVEN SOIL TYPE CAN BE FOUND IN THE RESPECTIVE SOIL PROFILE SECTION IN THE SOIL SURVEY PUBLISHED BY USDA-SCS IN COOPERATION WITH MARYLAND AGRICULTURAL EXPERIMENTAL STATION.

II. TOPSOIL SPECIFICATIONS - SOIL TO BE USED AS TOPSOIL MUST MEET THE FOLLOWING:

A. TOPSOIL SHALL BE A LOAM, SANDY LOAM, CLAY LOAM, SILT LOAM, SANDY CLAY LOAM, LOAMY SAND. OTHER SOILS MAY BE USED IF RECOMMENDED BY A AGRONOMIST OR SOIL SCIENTIST AND APPROVED BY THE APPROPRIATE APPROVAL AUTHORITY. REGARDLESS, TOPSOIL SHALL NOT BE A MIXTURE OF CONTRASTING TEXTURED SUBSOILS AND SHALL CONTAIN LESS THAN 5% BY VOLUME OF CINDERS, STONES, SLAG, COARSE FRAGMENTS, GRAVEL, STICKS, ROOTS, TRASH, OR OTHER MATERIALS LARGER THAN 1 1/2" IN DIAMETER.

B. TOPSOIL MUST BE FREE OF PLANT PARTS SUCH AS BERMUDA GRASS, QUACKGRASS, JOHNSONGRASS, NUTSEDGE, POISON IVY, THISTLE, OR OTHERS AS SPECIFIED.

C. WHERE THE SUBSOIL IS EITHER HIGHLY ACIDIC OR COMPOSED OF HEAVY CLAYS, GROUND LIMESTONE SHALL BE SPREAD AT THE RATE IF 4-8 TONS/ACRE (200-400 POUNDS PER 1,000 SQUARE FEET) PRIOR TO THE PLACEMENT OF TOPSOIL. LIME SHALL BE DISTRIBUTED UNIFORMLY OVER DESIGNATED AREAS AND WORKED INTO THE SOIL IN CONJUNCTION WITH TILLAGE OPERATIONS AS DESCRIBED IN THE FOLLOWING PROCEDURES.

III. FOR SITES HAVING DISTURBED AREAS UNDER 5 ACRES:

A. PLACE TOPSOIL (IF REQUIRED) AND APPLY SOIL AMENDMENTS AS SPECIFIED IN 20.0 VEGETATIVE STABILIZATION - SECTION 1 - VEGETATIVE STABILIZATION METHODS AND MATERIALS (OR SEE SEEDING NOTES).

IV. FOR SITES HAVING DISTURBED AREAS OVER 5 ACRES:

A. ON SOIL MEETING TOPSOIL SPECIFICATIONS, OBTAIN TEST RESULTS DICTATING FERTILIZER AND LIME AMENDMENTS REQUIRED TO BRING THE SOIL INTO COMPLIANCE WITH THE FOLLOWING:

1. PH FOR TOPSOIL SHALL BE BETWEEN 6.0 AND 7.5. IF THE TESTED SOIL DEMONSTRATES A PH OF LESS THAN 6.0, SUFFICIENT LIME SHALL BE PRESCRIBED TO RAISE THE PH TO 6.5 OR HIGHER.
2. ORGANIC CONTENT OF TOPSOIL SHALL BE NOT LESS THAN 1.5 PERCENT BY WEIGHT.
3. TOPSOIL HAVING SOLUBLE SALT GREATER THAN 500 PARTS PER MILL SHALL NOT BE USED.
4. NO SOD OR SEED SHALL BE PLACED ON SOIL WHICH HAS BEEN WITH SOIL STERILANTS OR CHEMICALS USED FOR WEED CONTROL UNTIL SUFFICIENT TIME HAS ELAPSED (14 DAYS MIN.) TO PERMIT DISSIPATION OF PHOTO-TOXIC MATERIALS.

NOTE: TOPSOIL SUBSTITUTES OR AMENDMENTS, AS RECOMMENDED BY A QUALIFIED AGRONOMIST OR SOIL SCIENTIST AND APPROVED BY THE APPROPRIATE APPROVAL AUTHORITY, MAY BE USED IN LIEU OF NATURAL TOPSOIL.

B. PLACE TOPSOIL (IF REQUIRED) AND APPLY SOIL AMENDMENTS AS SPECIFIED IN 2.0 VEGETATIVE STABILIZATION - SECTION I - VEGETATIVE STABILIZATION METHODS AND MATERIALS (OR SEE SEEDING NOTES).

V. TOPSOIL APPLICATION

A. WHEN TOPSOILING, MAINTAIN NEEDED EROSION AND SEDIMENT CONTROL PRACTICES SUCH AS DIVERSION, GRADE STABILIZATION STRUCTURES, EARTH DIKES, SLOPE SILT FENCE AND SEDIMENT TRAPS AND BASINS.

B. GRADES ON THE AREAS TO BE TOPSOILED, WHICH HAVE BEEN PREVIOUSLY ESTABLISHED, SHALL BE MAINTAINED, ALBEIT 4"-8" HIGHER IN ELEVATION.

C. TOPSOIL SHALL BE UNIFORMLY DISTRIBUTED IN A 4" -8" LAYER AND LIGHTLY COMPACTED TO A MINIMUM THICKNESS OF 4". SPREADING SHALL BE PERFORMED IN SUCH A MANNER THAT SODDING OR SEEDING CAN PROCEED WITH A MINIMUM OF ADDITIONAL SOIL PREPARATION AND TILLAGE. ANY IRREGULARITIES IN THE SURFACE RESULTING FROM TOPSOILING OR OTHER OPERATIONS SHALL BE CORRECTED IN ORDER TO PREVENT THE FORMATION OF DEPRESSIONS OR WATER.

D. TOPSOIL SHALL NOT BE PLACED WHILE THE TOPSOIL OR SUBSOIL IS FROZEN OR MUDDY CONDITION. WHEN THE SUBSOIL IS EXCESSIVELY WET OR IN A CONDITION THAT MAY OTHERWISE BE DETRIMENTAL TO PROPER GRADING AND SEEDBED PREPARATION.

VI. ALTERNATIVE FOR PERMANENT SEEDING - INSTEAD OF APPLYING THE FULL AMOUNTS OF LIME AND COMMERCIAL FERTILIZER, COMPOSTED SLUDGE AND AMENDMENTS MAY BE APPLIED AS SPECIFIED BELOW:

A. COMPOSTED SLUDGE MATERIAL FOR USE AS A SOIL CONDITIONER FOR SITES HAVING DISTURBED AREAS OVER 5 ACRES SHALL BE TESTED TO PRESCRIBE AMENDMENTS AND FOR SITES HAVING DISTURBED AREAS UNDER 5 ACRES SHALL CONFORM TO THE FOLLOWING REQUIREMENTS:

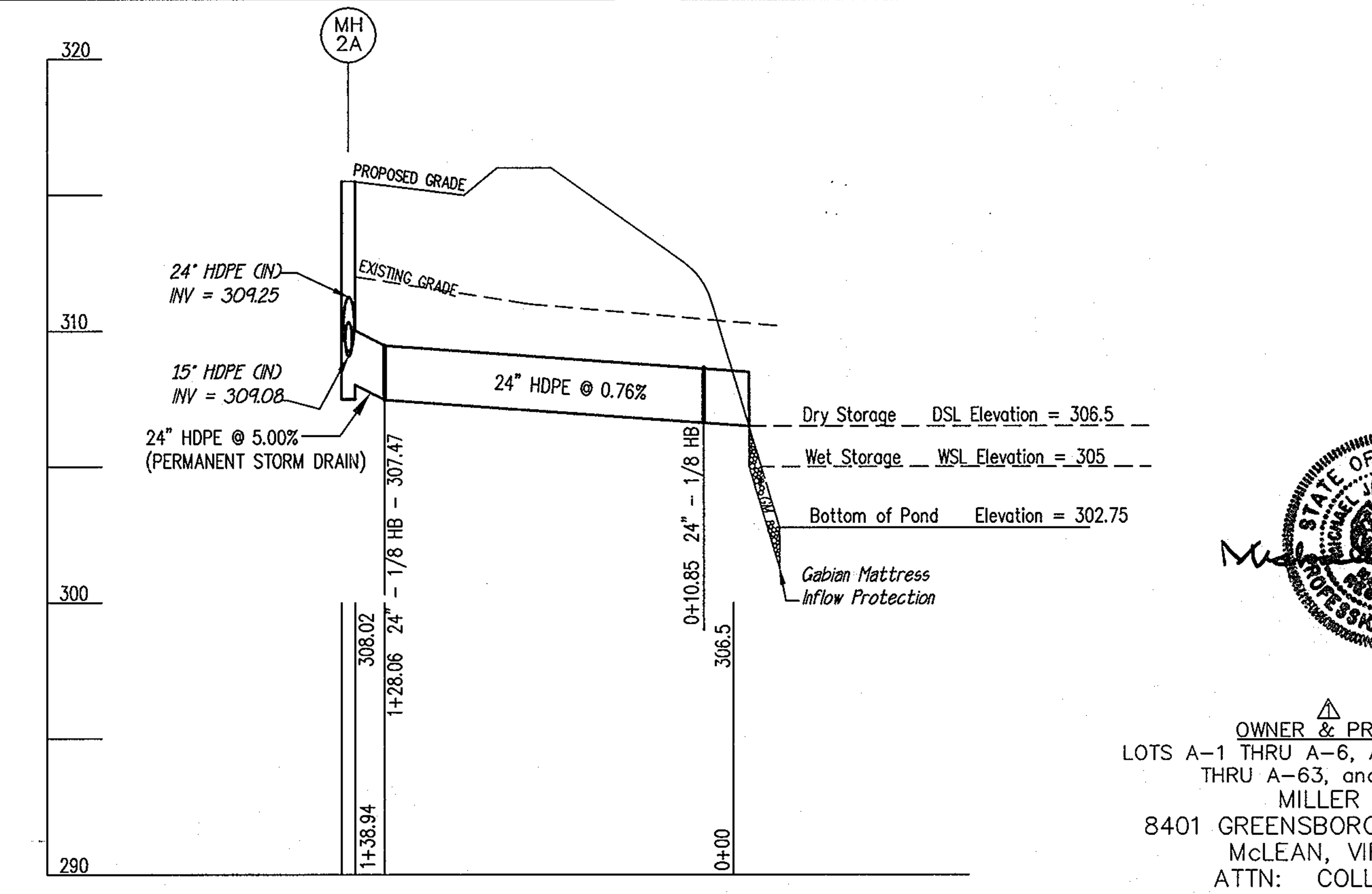
1. COMPOSTED SLUDGE SHALL BE SUPPLIED BY, OR ORIGINATE FROM, A PERSON OR PERSONS THAT ARE PERMITTED (AT THE TIME OF ACQUISITION OF THE COMPOST) BY THE MARYLAND DEPARTMENT OF THE ENVIRONMENT UNDER COMAR 26.04.06.

2. COMPOSTED SLUDGE SHALL CONTAIN AT LEAST 1 PERCENT NITROGEN, 1.5 PERCENT PHOSPHORUS, AND 0.2 PERCENT POTASSIUM AND HAVE A PH OF 7.0 TO 8.0. IF COMPOST DOES NOT MEET THESE REQUIREMENTS, THE APPROPRIATE CONSTITUENTS MUST BE ADDED TO MEET THE REQUIREMENTS PRIOR TO USE.

3. COMPOSTED SLUDGE SHALL BE APPLIED AT A RATE OF 1 TON/1,000 SQUARE FEET.

B. COMPOSTED SLUDGE SHALL BE AMENDED WITH A POTASSIUM FERTILIZER APPLIED AT A RATE OF 4LB/1,000 SQUARE FEET, AND 1/3 THE NORMAL LIME APPLICATION RATE.

REFERENCES: GUIDELINE SPECIFICATIONS, SOIL PREPARATION AND SODDING. MD-VA PUB. #1, COOPERATIVE EXTENSION SERVICE, UNIVERSITY OF MARYLAND AND VIRGINIA POLYTECHNIC INSTITUTES. REVISED 1973.



PROFILE ALONG TEMPORARY SD DIVERSION PIPE
SCALE: (1" = 5' V) , (1" = 50' H)

Revised Road Construction Plan

SEQUENCE OF CONSTRUCTION

1. APPLY FOR GRADING PERMIT AND SCHEDULE A PRE-CONSTRUCTION MEETING WITH THE INSPECTOR. OBTAIN GRADING PERMIT FROM THE INSPECTOR AT THE MEETING.

2. INSTALL STABILIZED CONSTRUCTION ENTRANCES, SILT FENCE AND SUPER SILT FENCE (WHERE APPLICABLE). CONSTRUCT SEDIMENT TRAP.

3. GRADE SITE. PROVIDE DUST CONTROL AS NECESSARY.

4. CONSTRUCT UTILITIES, EXCEPT STORM DRAIN FRON MANHOLE M 2A TO M 1A. INSTALL TEMPORARY STORM DRAIN DIVERSION AND INSTALL INLET PROTECTION. CONSTRUCT CURB AND GUTTER AND BASE PAVE. INSTALL LANDSCAPING.

5. STABILIZE REMAINING BARE DIRT AREAS WITH PERMANENT SEEDING OR WITH SOD.

6. ONCE AREA DRAINING TO SEDIMENT CONTROL MEASURES HAVE BEEN STABILIZED, OBTAIN PERMISSION FROM THE INSPECTOR TO REMOVE THE SEDIMENT CONTROL ITEMS. BACKFILL THE SEDIMENT TRAP AND REMOVE THE TEMPORARY STORM DRAIN DIVERSION. CONSTRUCT STORM DRAIN FROM MANHOLE M 2A TO M 1A.

7. INSTALL SURFACE PAVING.

STATE OF MARYLAND — MICHAEL JAMES TRAPPER — REGISTERED — PROFESSIONAL ENGINEER

△ OWNER & PREPARED FOR :
LOTS A-1 THRU A-6, A-26 THRU A-28, A-39 THRU A-63, and D-1 THRU D-11
MILLER & SMITH
8401 GREENSBORO DRIVE, SUITE 300
McLEAN, VIRGINIA 22101
ATTN: COLLEEN DWELLEY
(703) 821-2500 ext. 236

NOTE: THESE REPLACEMENT SHEETS SUPERCEEDES THE PLAN SHEET DATED DEC., 2003

△* LOTS A-37, A-38, A-64, A-65, A-66, D-12 THRU D-14

GLW GUTSCHICK LITTLE & WEBER, P.A.
CIVIL ENGINEERS, LAND SURVEYORS, LAND PLANNERS, LANDSCAPE ARCHITECTS
3909 NATIONAL DRIVE - SUITE 250 - BURTONSVILLE OFFICE PARK
BURTONSVILLE, MARYLAND 20866
TEL: 301-421-4024 BALT: 410-880-1820 DC/VA: 301-989-2524 FAX: 301-421-4186

L:\CADD\DRAWINGS\99140\ParcelB\ROAD-PLANS\99140adRP10.dwg | DES. BJM | DRN. BJM | CHK. MJT

DATE	REVISION	BY	APP'R.
09-08	OWNER INFORMATION AND TITLE BLOCK CHANGED △	BJM	mjt

OWNER & PREPARED FOR : △
STONE LAKE COMMUNITY ASSOCIATION, INC.*
C/O THE HOWARD RESEARCH & DEVELOPMENT CORP.
THE ROUSE BUILDING
10275 LITTLE PATUXENT PARKWAY
COLUMBIA, MARYLAND 21044
ATTN.: JOE NECKER
TELE.: (410) 992-6084

SEDIMENT AND EROSION CONTROL DETAILS

△ **STONE LAKE**

LOTS A-1 thru A-6, A-26 thru A-28, A-37 thru A-66, LOTS D-1 thru D-14 AND LOT 122
A RESUBDIVISION OF PARCELS 'A' & 'D' AND OPEN SPACE LOT 38
PLAT No.'s 15274 & 15275

ELECTION DISTRICT No. 6 — HOWARD COUNTY, MARYLAND

SCALE	ZONING	G. L. W. FILE No.
NTS	NT	99140
DATE	TAX MAP - GRID	SHEET
Sept., 2005	47-9/10 P/O PARCEL 837	9 OF 9

F 04-48