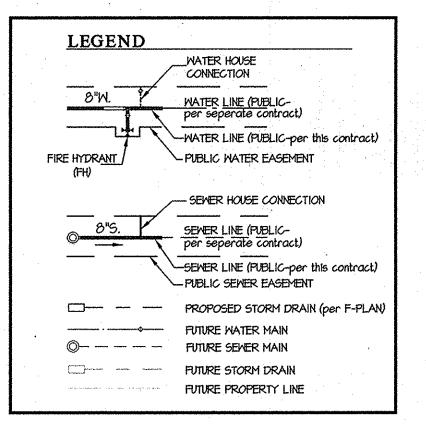
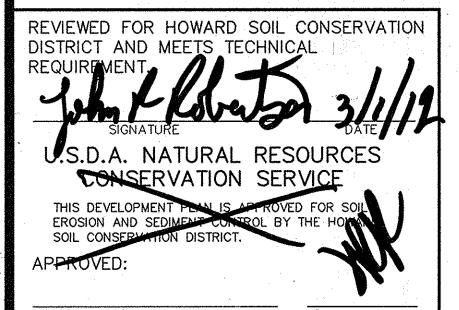
•	Q	UANTITIES			
	OLIANTITIES	AS-BUILT			
ITEMS	QUANTITIES ESTIMATED	QUANTITIES	TYPE	MANUFACTURER/ SUPPLIER	
12" D.I.P. WATER MAIN	1,985 L.F.	2037 L.F.	CL 54	ATLANTIC STATES	
8" D.I.P. WATER MAIN	561 L.F.	563 L.F.	CL 54	ATLANTIC STATES	
6" D.I.P. WATER MAIN	341 L.F.	338 L.E.	CL 54-	ATLANTIC STATES	
1 1/2" WHC	888 L.F.	1104 L.T.	TYPE K	MUCLLER INDUSTRIUS	
12" YALVE	000 La.	2	GATE	AMERICAN FLOW	
12"x8" TEE	I EA.	I EA.	MJ	TYLER UNION	
12"x6" TEE	i EA.	1 EA.	พง	TYLER JUNION	
12"x6" FHT	3 EA.	2. EA.	MJ LM	TYLER/UNION	
12" 1/8 HB	2 EA.	2 EA.	LN	TYLER JUNION	
12" I/16 HB	8 EA.	G EA.	мз	TYLER /UNION	
8" VALVE		1 EA.	GATE	AMERICAN FLOW	
8"x6" TEE	I EA.	1 E人	мз	TYLER/UNION	
8" 1/16 HB	I EA.	I E.A.	MJ	TYLER/UNION	
8"x6" FHT	I EA.	2 EA.	MJ	TYLER UNION	
6" VALVE		G EA.	GATE	AMERICAN FLOW	
8" SEWER MAIN DIP		354 L.F.	CLASS 54 DIP		
8" SEWER MAIN	2250 L.F.	2116 L.F.	PVC	NORTH AMERICAN	
SEWER MANHOLES	19 EA.	20 EA.	PRE - CAST	ATLANTIC CONCRETE	
PIRE HYDRANTS	4 EA.	4 EA.	CENTURION	MUELLER INPUSTRIES	
				:	
		·			
NAME OF UTILITY CON	ITRACTOR: GR	ay d son			
			SURVEY AND	CHECKBOX:.	
			DRAFTING DIV.	AS-BUILT DATE: 11-13-1	



SHEET INDEX - WATER & SEWER TITLE SHEET - WATER & SEWER PLAN 3 - WATER & SEMER PLAN 4 - WATER & SEWER PROFILES 5 - WATER & SEWER PROFILES

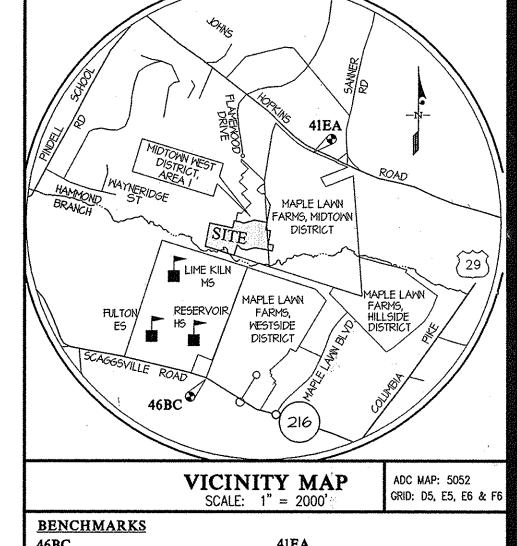
SEDIMENT CONTROL MEASURES WILL BE IMPLEMENTED IN ACCORDANCE WITH SECTION 308 OF THE SPECIFICATIONS AND WITH ROAD DRAWINGS F 12-30 FOR SEDIMENT AND EROSION CONTROL



CONTRACT No. 24-4702-D MAPLE LAWN FARMS MIDTOWN WEST DISTRICT - AREA 1 (PHASE II) HOWARD COUNTY, MARYLAND DEPARTMENT OF PUBLIC WORKS

N 545,000 N 545,000 MAPLE LAWN FARMS LIMITS OF PHASE 2 MIDTOWN DISTRICT AREAS 1, 2 4 3 PROPERTY OF - PUMP STATION THE BOARD OF EDUCATION 44-4516-D OF HOWRAD COUNTY L. 3218 F. 618 SPACE LOT 3 (ZONED: MXD-3) (cont. 24-4238) OFEN SPACE LOT I MAPLE LAWN BLVD. (HOMEOWNER'S OWNERS (MINOR ARTERIAL) (100' R/W) ASSOCIATION) N 541,500 N 541,500 CPEN SPACE LOT 2 (COMMERCIAL OWNERS ASSOCIATION) EX. 8"5. (cont. 24-4062-D) PROPERTY OF (cont. 24-4498) LOIS PETERS, LEROY PETERS (cont. 24-4062) & LAKEISHA PETERS L. 9293 F. 183 (ZONED: RR-DEO) MAPLE LAWN
OPEN SPACE LOT 2
PLAT NO. 16082
SWM FACILITY
PER F-03-07 WATER AND SEWER CODE: COUNTY USE WATER No. : E-21PARCEL C-6 SEWER No.: 7695000 PLAT NO. 16514 TEST GRADIENT: 700 (IN 550 PRESSURE ZONE) 780 (IN 630 PRESSURE ZONE) LOCATION MAP 'SCALE: 1'' = 600'

RESIDENTIAL TYPE OF BUILDING NUMBER OF S.H.C.'s 40 (40 SINGLE) (4) SEWER SHED PUMPING STATION



ELEV. = 407.05

STANDARD DISC ON CONCRETE MONUMENT STANDARD DISC ON CONCRETE MONUMENT

N = 544825.81 E= 1339.217.44

I. APPROXIMATE LOCATIONS OF EXISTING MAINS ARE SHOWN. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT EXISTING MAINS AND SERVICES AND MAINTAIN UNINTERRUPTED SERVICE. ANY DAMAGE INCURRED SHALL BE REPAIRED IMMEDIATELY TO THE SATISFACTION OF THE ENGINEER AT THE CONTRACTOR'S EXPENSE.

ELEV. = 472.16

N = 539,925.13 E=1,337,205.77

2. TOPOGRAPHIC FIELD SURVEYS WERE PERFORMED DURING MARCH 1997 BY 3DI. 3. HORIZONTAL AND VERTICAL SURVEY CONTROLS:

GENERAL NOTES

THE COORDINATES SHOWN ON THE DRAWINGS ARE BASED ON MARYLAND STATE REFERENCE SYSTEM NAD '83/'91 AS PROJECTED BY HOWARD COUNTY GEODETIC CONTROL STATIONS NO.46BC AND NO. 4IEA. ALL VERTICAL CONTROLS ARE BASED ON NAVD '88. VERTICAL CONTROLS PROVIDED ON THE DRAWINGS ARE STANDARD DISCS ON

4. ALL PIPE ELEVATIONS SHOWN ARE INVERT ELEVATIONS UNLESS OTHERWISE NOTED ON THE PLANS.

5. CLEAR ALL UTILITIES BY A MINIMUM OF 12 INCHES. CLEAR ALL POLES BY 5'-O" MINIMUM OR TUNNEL AS REQUIRED UNLESS OTHERWISE NOTED. THE OWNER HAS CONTACTED THE UTILITY COMPANIES AND HAS MADE ARRANGEMENTS FOR BRACING OF POLES AS SHOWN ON THE DRAWINGS. IN THE EVENT THE CONTRACTOR'S WORK REQUIRES THE BRACING OF ADDITIONAL POLES, ANY COST INCURRED BY THE OWNER FOR THE BRACING OF ADDITIONAL POLES OR DAMAGES SHALL BE DEDUCTED FROM MONIES OWED THE CONTRACTOR. THE CONTRACTOR SHALL COORDINATE WITH THE UTILITY COMPANIES TO SCHEDULE THE BRACING OF THE POLES.

6. FOR DETAILS NOT SHOWN ON THE DRAWING, AND FOR MATERIALS AND CONSTRUCTION METHODS, USE HOWARD COUNTYDESIGN MANUAL VOLUME IV, STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION (LATEST EDITION). THE CONTRACTOR SHALL HAVE A COPY OF YOLUME IV ON THE JOB.

7. WHERE TEST PITS HAVE BEEN MADE ON EXISTING UTILITIES, THEY ARE NOTED BY THE SYMBOL AT THE LOCATIONS OF THE TEST PITS. A NOTE OR NOTES CONTAINING THE RESULTS OF THE TEST PIT OR PITS IS INCLUDED ON THE DRAWINGS. EXISTING UTILITIES IN THE VICINITY OF THE PROPOSED WORK FOR WHICH TEST PITS HAVE NOT BEEN DUG SHALL BE LOCATED BY THE CONTRACTOR TWO WEEKS IN ADVANCE OF CONSTRUCTION OPERATIONS AT HIS OWN EXPENSE.

8. THE CONTRACTOR SHALL NOTIFY THE FOLLOWING UTILITY COMPANIES OR AGENCIES AT LEAST FIVE WORKING DAYS BEFORE STARTING WORK SHOWN ON THESE PLANS:

AT&T.....

BGE (CONTRACTOR SERVICES).... 410-637-8713 BGE (EMERGENCY).. 410-685-0123 BUREAU OF UTILITIES .. 410-313-4900 COLONIAL PIPELINE CO.. 410-795-1390 1-800-257-777

STATE HIGHWAY ADMINISTRATION...... 410-531-5533 1-800-743-0033 / 410-224-9210

9. TREES AND SHRUBS ARE TO BE PROTECTED FROM DAMAGE TO THE MAXIMUM EXTENT. TREES AND SHRUBS LOCATED WITHIN THE CONSTRUCTION STRIP ARE NOT TO BE REMOVED OR DAMAGED BY THE CONTRACTOR.

IO. THE CONTRACTOR SHALL REMOVE TREES, STUMPS AND ROOTS ALONG THE LINE OF EXCAVATION. PAYMENT FOR SUCH REMOVAL

SHALL BE INCLUDED IN THE UNIT PRICE BID FOR CONSTRUCTION OF THE MAIN. II. THE CONTRACTOR SHALL NOTIFY THE BUREAU OF HIGHWAYS, HOWARD COUNTY, AT (410)-313-7450 AT LEAST FIVE WORKING DAYS BEFORE OPEN CUTTING OR BORING/JACKING OF ANY COUNTY ROAD FOR LAYING WATER/SEWER MAINS OR HOUSE CONNECTIONS. THE APPROVAL OF THESE DRAWINGS WILL CONSTITUTE COMPLIANCE WITH DPW REQUIREMENTS PER SECTION 18.114(A) OF THE HOWARD

. ALL WATER MAINS SHALL BE D.I.P. CLASS 54 UNLESS OTHERWISE NOTED. 2. TOPS OF ALL WATER MAINS SHALL HAVE A MINIMUM OF 3'-6" OF COVER UNLESS OTHERWISE NOTED.

3. VALVES ADJACENT TO TEES SHALL BE STRAPPED TO TEES.

4. ALL FITTINGS SHALL BE BUTTRESSED OR ANCHORED WITH CONCRETE IN ACCORDANCE WITH STANDARD DETAILS UNLESS OTHERWISE

PROVIDED FOR ON THE DRAWINGS. 5. FIRE HYDRANTS SHALL BE SET TO THE BURY LINE ELEVATIONS SHOWN ON THE DRAWINGS. ALL FIRE HYDRANTS SHALL BE INSTALLED IN ACCORDANCE WITH STANDARD DETAILS. THE SOIL AROUND THE FIRE HYDRANT SHALL BE COMPACTED IN ACCORDANCE WITH

SECTION 1000 AND SECTION 1005 OF THE STANDARD SPECIFICATIONS.

6. THE CONTRACTOR SHALL NOT OPERATE ANY WATER MAIN VALVES ON THE EXISTING WATER SYSTEM 7. TRACER WIRE AND CONTINUITY TEST STATIONS SHALL BE INSTALLED ON ALL DIP WATER MAINS IN ACCORDANCE WITH THE HOWARD

I. ALL SEWER MAINS SHALL BE D.I.P. OR P.V.C. UNLESS OTHERWISE NOTED.

2. ALL MANHOLES SHALL BE 4'-OA INSIDE DIAMETER UNLESS OTHERWISE NOTED 3. FORCE MAINS SHALL BE D.I.P. ONLY.

4. MANHOLES SHOWN WITH 124 AND 164 WALLS ARE FOR BRICK MANHOLES ONLY.

5. MANHOLES DESIGNATED W.T. IN PLAN AND PROFILE SHALL HAVE WATERTIGHT FRAME AND COVER, STANDARD DETAIL 65.52. WHERE WATERTIGHT MANHOLE FRAMES AND COVERS ARE USED, SET TOP OF FRAME 1'-64 ABOVE FINISHED GRADE UNLESS OTHERWISE NOTED

6. HOUSE(S) WITH THE SYMBOL @C.N.S.A INDICATES THAT THE CELLAR CANNOT BE SERVED.

PREPARED FOR: GREENEBAUM DEVELOPMENT, INC. SUITE 300 WOODHOLME CENTER 1829 REISTERSTOWN ROAD BALTIMORE, MD 21208 ATTN: MARK BENNETT 410-484-8400

DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND

Shh Clem CHIEF. BUREAU OF UTILITIES

DEPARTMENT OF PLANNING AND ZONING HOWARD COUNTY, MARYLAND

CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE L (CADO) (PRANKES) (2001/ VIS/ VINA) (PHASE 2 (24-4702-0)) (00001-PHASE 2 PNS-CS.deg DES. DEV DRN. KLP CHK. DEV

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

PROFESSIONAL CERTIFICATION JANUARY HEREBY CERTIFY THAT THESE PLANS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, EXP. DATE: MAY 26, 2012



DEV. A rev. number of w.h.c.'s to reflect connection LEM A "QUANTITIES" TABLE 12-14-12 REVISION 600' SCALE MAP NO. 41 BLOCK NO. 15 & 21

WATER and SEWER

TITLE SHEET

MAPLE LAWN FARMS

CONTRACT No. 24-4702-D MIDTOWN WEST DISTRICT - AREA 1 (PHASE II) LOTS 39 thru 49, 52 thru 65, 67 thru 80 and OPEN SPACE LOTS 85 and thru 87

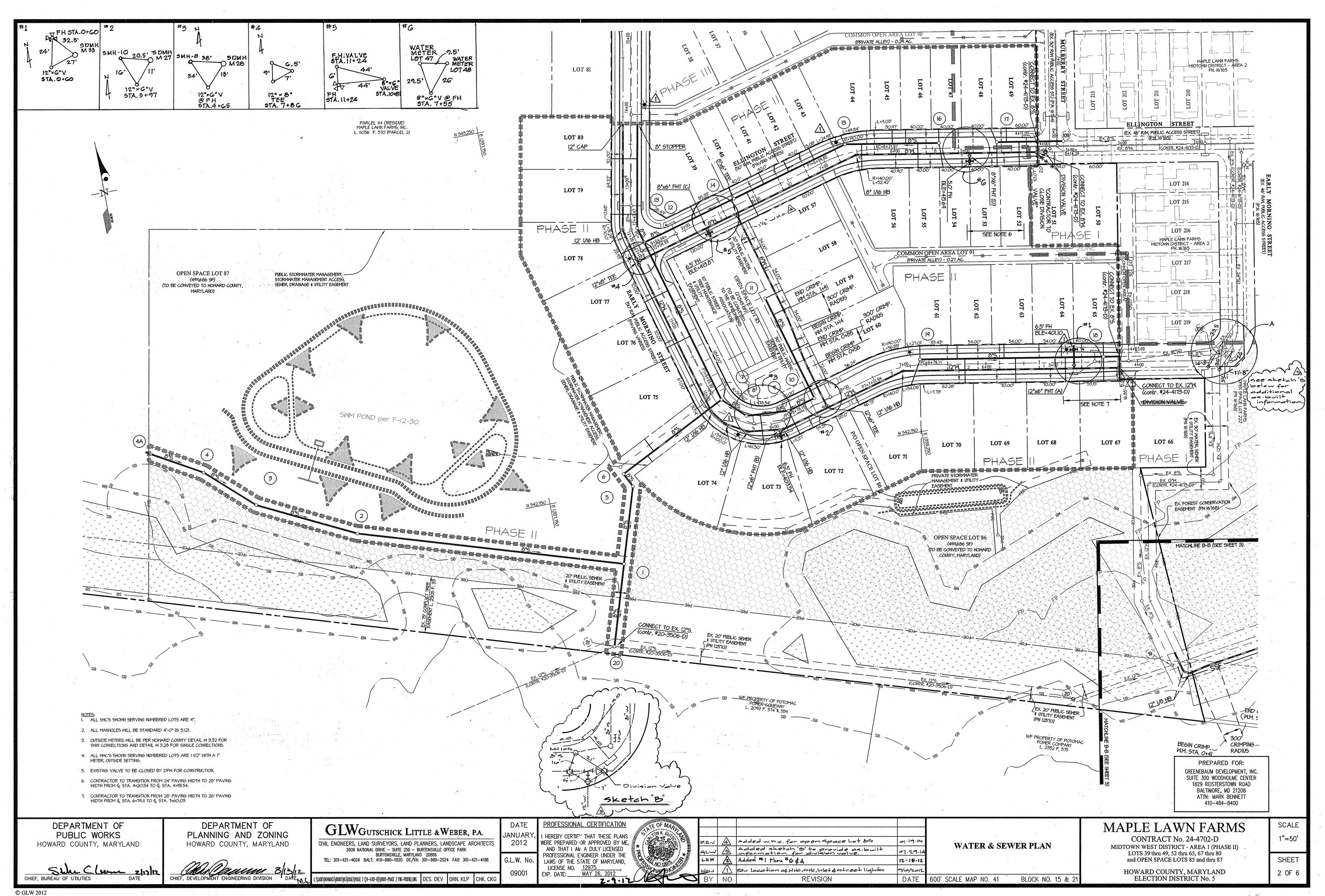
HOWARD COUNTY, MARYLAND

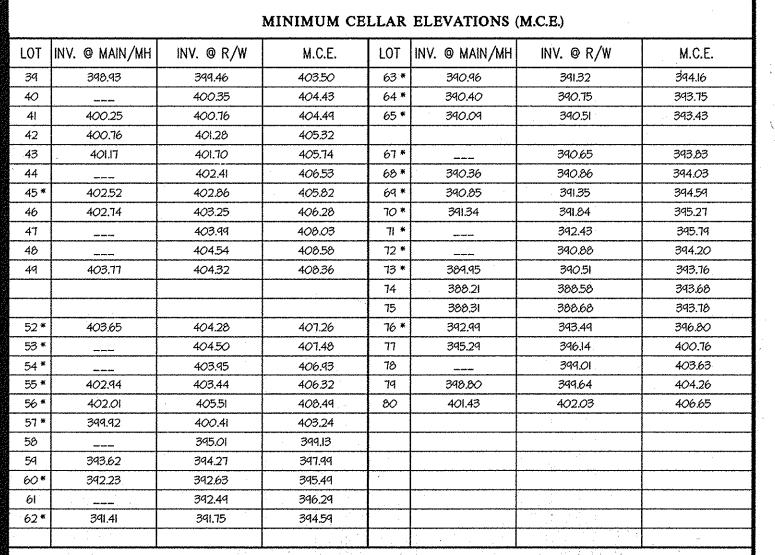
ELECTION DISTRICT No. 5

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SCALE AS SHOWN

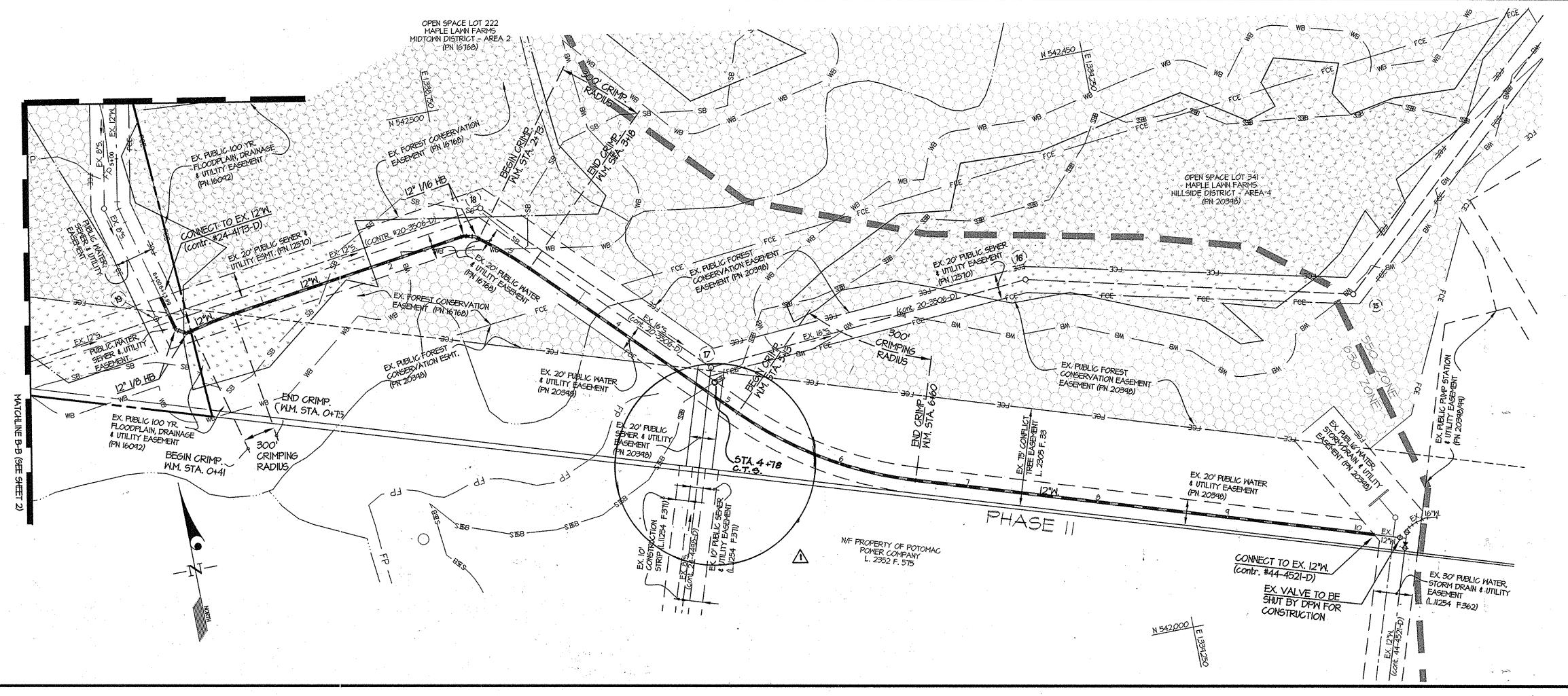
> SHEET 1 OF 6





*-DENOTES SHC'S WHICH NEED TO BE RUN AT 1.0%. ALL OTHER SHC'S TO BE RUN AT 2.0%

	SEWER MANHOLE INFORMATION						
МН	LOCA	TION	МН	LOCA	TION		
1	N 542,653.20	E 1,337,830.81	14	N 543,100.07	E 1,338,065.53		
- 2	N 542,760.10	E 1,337,492.94	15	N 543,142.59	E 1,338,222.88		
3	N 542,034.45	E 1,337,383.95	16	N 543,120.70	E 1,338,344.95		
4	N 542,915.75	E 1,337,245.II	17	N 543,107.22	E 1,338,420.11		
5	N 542,751.82	E 1,337,862.00	18	N 542,801.59	E 1,338,504.16		
6	N 542,770.13	E 1,337,852,97	19	N 542,844.31	E 1,338,265.93		
7	N 542,841.97	E 1,337,998.55					
8	N 542,814.59	E 1,338,026.84					
q	N 542810.51	E 1,338,082.67		·			
10	N 542,820.43	E 1,338,119.35					
11	N 542,962.56	E 1,338,080.94					
12	N 543,065.63	E 1,337,938.10					
13	N 543,086.19	E 1,337,432.55	1				



FITTING INFORMATION					
W.M. STATION	FITTING	LOCATION			
EARLY MORNING	STREET				
2+86	12* I/16 HB	N 542,833.58	E 1,338,240.82		
3+97	12"x6" TEE	N 542,804.70	E 1,338,133.96		
4+62	12" I/16 HB	N 542787.74	E 1338071.21		
5+08	12" I/16 HB	N 542,793.71	E 1,338,025.06		
5+40	12" I/16 HB	N 542,809.76	E 1,337,997.13		
5+65	12" I/16 HB	N 542,828.86	E 1,337,982.41		
7+86	12"x8" TEE	N 543,042.34	E 1,337,924.72		
8+32	12" I/16 HB	N 543,087.60	E 1,337,913.46		
ELLINGTON STRE	ET				
9+04	8" 1/16 HB	N 543,126.19	E 1,338,235.02		
10+80	8"x6" TEE	N 543,080.16	E 1,338,064.70		
12+25	12"x8" TEE	N 543,042.34	E 1,337,924.72		

	FITTING INFO	ORMATION	
W.M. STATION	FITTING	LOCATION	
WATERLINE 'A'			
0+27	12" 1/8 HB	N 542,372.69	E 1,338,528.12
0+36	12" 1/8 HB	N 542,368.28	E 1,338,536.17
2+61	12" I/16 HB	N 542,401.36	E 1,338,758.69
2+70	12" 1/16 HB	N 542,399.17	E 1,338,767.06

FIRE	HYDRANT TEI	INFORMATION
FHT	LOCA	TION
(A)	N 542,793.69	E 1,338,463.24
(B)	N 542,788.22	E 1,338,067.45
(C)	N 543,061.43	E 1,338,024.57
/n)	N 542 000 04 .	E 1220.20176

PREPARED FOR: GREENEBAUM DEVELOPMENT, INC. SUITE 300 WOODHOLME CENTER 1829 REISTERSTOWN ROAD BALTIMORE, MD 21208 ATTN: MARK BENNETT 410-484-8400

DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND

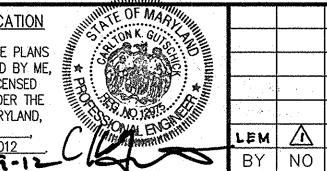
CHIEF, BUREAU OF UTILITIES

DEPARTMENT OF PLANNING AND ZONING HOWARD COUNTY, MARYLAND

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

L:\cx00\pransics\proon\prasize 2 (24-4702-0)\proon-prasize 2 Fis-profilence DES. DEV DRN. KLP CHK. CKG

PROFESSIONAL CERTIFICATION I HEREBY CERTIFY THAT THESE PLANS
WERE PREPARED OR APPROVED BY ME,
AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND,
LICENSE NO. 12975
EXP. DATE: MAY 26, 2012



1. sheet (of this plan set for detail of Mawe 1.2.

2. See F12.30 for sediment control devices.

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				WA
GUAN AND THE REAL PROPERTY OF THE PERTY OF T				
ARY				

REVISION

VATER & SEWER PLAN

BLOCK NO. 15 & 21

FOR SEDIMENT CONTROL USE ONLY

DATE 600' SCALE MAP NO. 41

MAPLE LAWN FARMS CONTRACT No. 24-4702-D MIDTOWN WEST DISTRICT - AREA 1 (PHASE II)

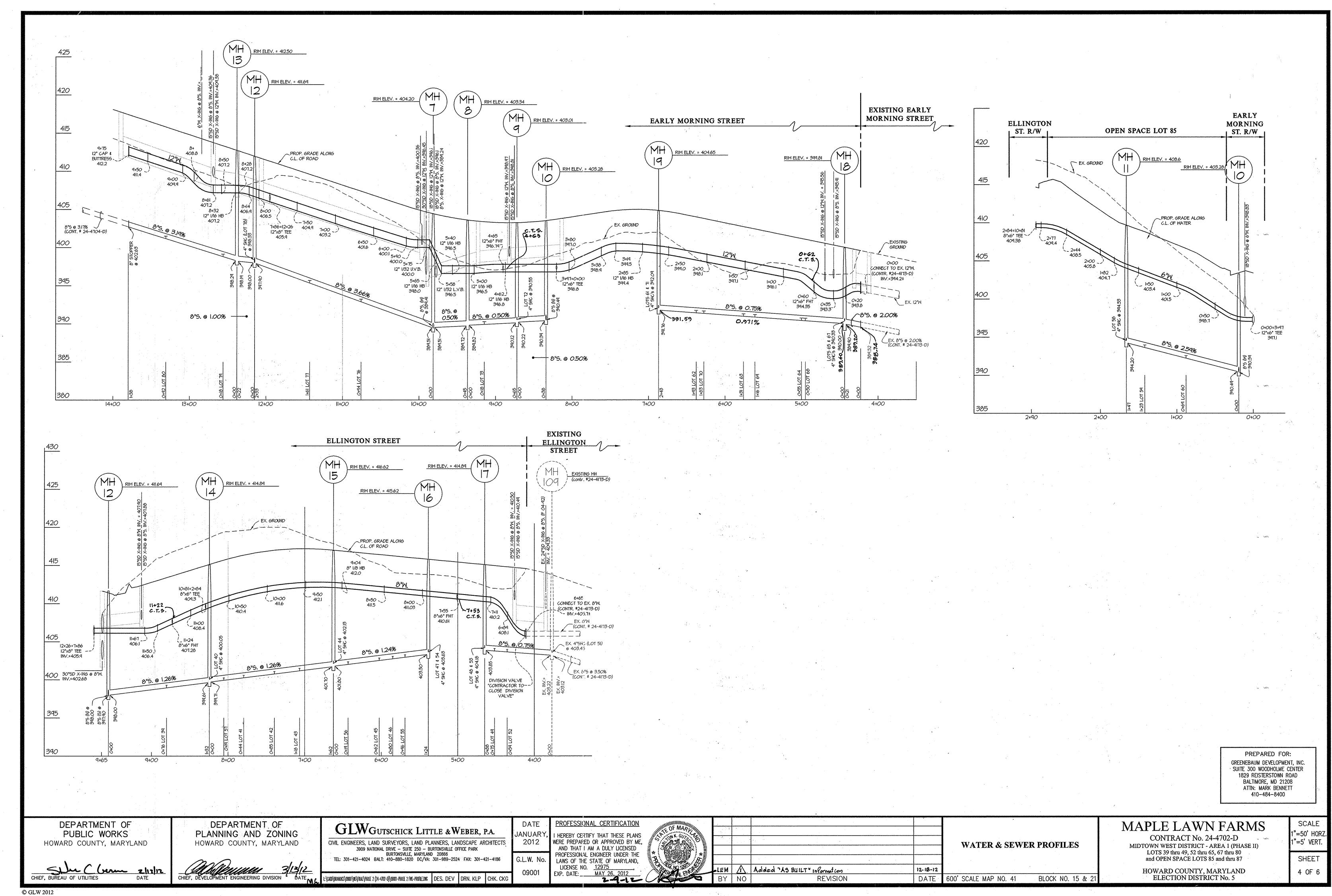
LOTS 39 thru 49, 52 thru 65, 67 thru 80 and OPEN SPACE LOTS 85 and thru 87 HOWARD COUNTY, MARYLAND ELECTION DISTRICT No. 5 SHEET 3 OF 6

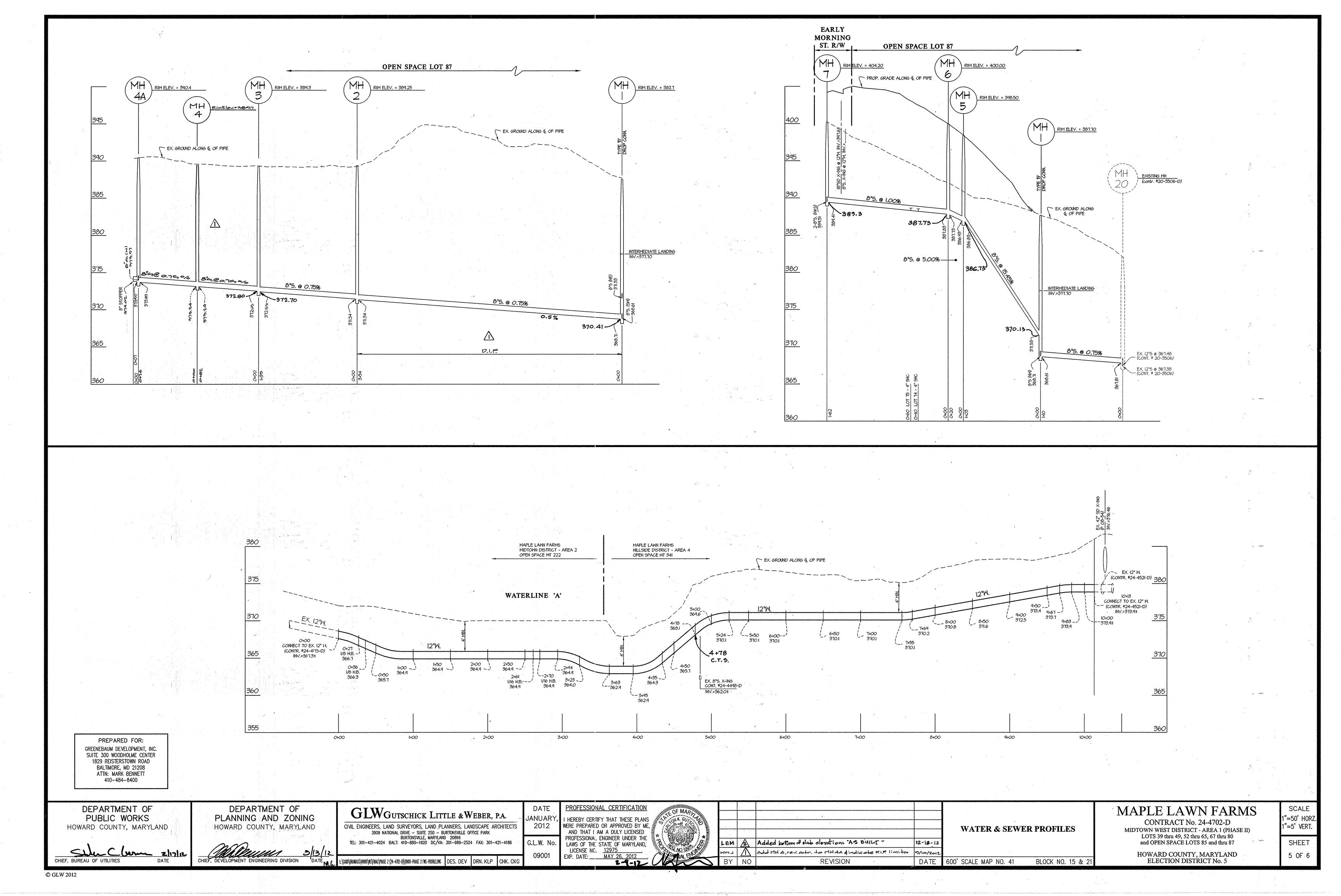
SCALE

1"=50'

© GLW 2012

	OPEN SPACE LOT 222 MAPLE LAWN FARMS MIDTOWN DISTRICT - AREA 2: (PN 16768)	NESTRATE IN THE STATE OF THE ST
Will State of the second and the sec	TI 542500 TO THE TOTAL TOTAL SERVICE S	WB SPACE LOT 34I
CONNECT TO EX INVI CONNECT TO EX INVI EX 20 PUBLIC SEMER TO EX 20 PUBLIC SEMER TO EX 120 PUBLIC SE	SS (18) WB WB FCE EXPUBLIC FOREST ENEMY SO CONTRIBUTION EASEMENT (PN 20348) FOR EXPUBLIC FOREST ENEMY FOR EXPUBLIC FOREST EN	OPEN SPACE LOT 34II MAPLE LAWN FARMS HILLSIDE DISTRICT - AREA-4 (PN 20348) S8 20 PUBLIC SENET 16 EX. TITLLITY EASE VIENT 16 EX. TITLLITY EASE VIENT 16
EX 2 3 SE	EASEMENT (PN 16 768)	Home 20 3506 DI FOE BU SM SM SM SM SM
WB EX. PUBLIC 100 YR FLOODPLAIN, DRAINAGE UTILITY EASEMENT. (PN 16092)	EX. 20) PUBLIC WATER OF TOTAL PROPERTY FASEMENT (PN)20398) EX. 20' BUBLIC SEIVER /4 UTILITY EASEMENT (PN 20398)	EX. PUBLIC FOREST CONSERVATION EASEMENT EASEMENT (PN-20348) 394 394 394 394 394 394 394 39
SEE SHEET 2)	380-380-380-380-380-380-380-380-380-380-	SSF WILLITY EASEMENT (PN 20398) SSF SSF SSF SSF SSF SSF SSF SSF SSF SS
		NF PROPERTY OF POTOMAC POWER COMPANY L. 2352 F. 515 EX. 30' PUBLIC WATER STORM DRAIN & UTILITY EASEMENT





AS-BUILT INFORMATION		on a mentral or an entre estados estados estados en entre entre entre entre entre entre entre entre entre entre Tanta entre en			
WATER HOUSE SEWER HOUSE CONNECTION AS BUILT					
LOT ADDRESS LOCATION DIM. 1 LOCATION DIM. 2 LOCATION DIM. 1 LOCATION DIM. 2					
39 ELLINGTON STREET 59' TO LOT 575HC 47' TO LOT 40 WHC 37.5' TO LOT 39WHC 83.5' TO LOT WHO 40 18.5' TO LOT 41 SHC 43.5' TO LOT 57 SHC 20.5' TO LOT 39WHC 28' TO LOT 40	MGWC 1.2: Pump-Around Practice				
18'TO LOT 42 SHC 22.5'TO LOT 41 SHC 22.5'TO LOT 41 WHC 55.5'TO LOT 57 SH 42					
43 16.5 to lot 44 shc 32 to lot 43 shc 32 to lot 43 whc 13.5 to lot 42 wh 44 10.5 to lot 45 whc 36 to lot 44 shc 36 to lot 44 whc 16.5 to lot 43 wh		Maryland's Guidelines To Waterway Cons			
45 25'TO LOT 45 SHC 10.5'TO LOT 44 WHC 25'TO LOT 45 WHC 17.5'TO LOT 46 SHC 46 18.5'TO LOT 47 SHC 50' TO LOT 4G SHC 30'TO LOT 4G WHC 10' TO LOT 47 SHC		DETAIL 1.2: PUMP-AROUND PRA	CTICE		
47 1 29.5 TO LOT 47 SHC 10'TO LOT 48 WHC 48'TO LOT 55 WHC 56'TO LOT 54 WHC 48 33.5'TO LOT 48 SHC 39'TO LOT 47 SHC 39'TO LOT 48 WHC 58'TO LOT 54 WHC	IMPLEMENTATION SEQUENCE	PLAN VIEW			i
49 12' TO LOT 49 SHC 15.5' TO LOT 48 SHC 15.5' TO LOT 48 WHC 12' TO LOT 49 WHC 52 21,5' TO LOT 62 SHC 14' TO LOT 53 SHC 14' TO LOT 52 WHC 37.5' TO LOT 53 WHC	1. Construction activities including the installation of erosion and sediment control measures should not begin	approved ← dewatering device			
53 11' TO LOT 53 SHC 37.5' TO LOT 52 SHC 37.5' TO LOT 52 WHC 11' TO LOT 53 WHC 54 44' TO LOT 55 WHC 36' TO LOT 47 WHC 27.5' TO LOT 54 WHC 20' TO LOT 55 WHC	in the february case ments and or the contractor is reversely the february damage to existing stillities that may		stream - diversion pumps		
55 44 TO LOT 54 WHC 35° TO LOT 46 WHC 17' TO LOT 55 WHC 30' TO LOT 56 WHC 56 44 TO LOT 46 SHC 44' TO LOT 45 SHC 47' TO LOT 45 WHC 52' TO LOT 43 WHC	2. The contractor should notify the Maryland Department of the Environment or WMA sediment control inspector	discharge hoses	— intoka		
57 44 TO LOT 57 SHC 28' TO LOT 58 WHC 43.5' TO LOT 40 WHC 44.5' TO LOT 57 WHC 58 36 TO LOT 58 SHC 28' TO LOT 57 WHC 1C' TO LOT 59 WHC 25.5' TO LOT 59 SHC	local utilities a minimum of 48 hours before starting construction. 3. The contractor should conduct a pre-construction meeting or site with the WMA sediment control inspector, the	P dewatering pump	hose		å.
59 IG'TO LOT 58 SHC 13.5'TO LOT 59 SHC 60.5' TO LOT 58 WHC 13.5'TO LOT 59 WHC 60 EARLY MORNING ST. 12.5'TO LOT 60 SHC 43.5'TO LOT 59 SHC 12.5'TO LOT 60 WHC 98.5'TO LOT 71 WHC	county project manager, and the engineer to reviewed limits of disturbance, crossion all indist disturbance prior requirements, and the sequence of construction. The narticipants will also designate the contractor's	flow intake hose	flow	en e	
61 15'TO LOT 62 SHC 38.5'TO LOT 70 WHC 67.5'TO LOT 70 WHC 36.5'TO LOT GI WHO 62 44'TO LOT 70 WHC 34.5'TO LOT 63 SHC 15'TO LOT 61 WHC 34.5'TO LOT 62 WHO	Trees should not be removed within the limit of disturbance without approval from the WMA or local authority. 4. Construction should not begin until all sediment and erosion control measures have been installed and approved	clean water dike	sump-hole		
63 11' TO LOT 635HC 49' TO LOT 69'5HC 45.5"TO LOT 69 WHC 11' TO LOT 63 WHC 64 31'TO LOT 64 SHC 37.5' TO LOT 68 WHE 46.5 TO LOT 68 WHC 52.5' TO LOT 68 SHC	disturbance as shown on the plans and minimize disturbance within the work area whenever possible.	work area	or pool (12" to 18" deep 2' dia.)	en de la companya de La companya de la co	•
65 55'TO LOT 68 WHC 31.5'TO LOT 655HC 18.5'TO 5MH -18 31.5' TO LOT 65 WH	environmental protection and resource management inspection and enforcement division, the contractor should begin work at the upstream section and proceed downstream beginning with the establishment of stabilized construction entrances. In some cases, work may begin downstream if appropriate. The sequence of	pumps should discharge length not to exceed onto a stable velocity that which can be dissipator made of rip rap completed in one day			
67 EARLY MORNING ST. 16.5' TO LOT 67 SHC 28' TO 3MH-18 28' TO 3MH-18 16.5' TO LOT 67 WH 68 23' TO LOT 68 SHC 45.5' TO LOT 69 SHC 52.5' TO LOT 64 SHC 23' TO LOT 68 WHC	I UNCLUDING GROUNG SOURCEST TO THE CONTINUE. AT THE CRO OF CACH WORK DAY, THE WORK BY SURDIFIZED AND	or sandbags			:
69 27'TO LOT 69 SHC 43.5'TO LOT 70 SHC 45.5'TO LOT 68WHC 49'TO LOT 63' WHC 70 42.5' TO LOT 62 SHC 66' TO LOT 71 SHC 11.5'TO LOT 70 WHC 43.5'TO LOT 69 WHC	6. Sandbag dikes should be situated at the upstream and downs ream ends of the work area as shown on the plans, and stream flow should be pumped around the work area. The pump should discharge onto a stable velocity	SECTION A-A			•
73 TO LOT 71 SHC 87' TO LOT 72 SHC 39' TO SMH 19 GG'TO LOT 70 WHC 72 22' TO LOT 72 SHC GB' TO LOT 73 SHC 67.5 TO LOT GI WHC 87' TO LOT 71 WHC	7. Water from the work area should be pumped to a sediment 5ltering measure such as a dewatering basin,	_ impervious sheeting			e de la companya de La companya de la co
73 16' TO LOT 73 SHC 64.5'TO LOT 74 WHC 55.5'TO LOT 74WHC 68'TO LOT 72 WHC	sediment bag, or other approved source. The measure should be located such that the water drains back into the channel below the downstream sandbag dike.	work area base flow + 1 (2 foot minimum	foot		
74 64.5' TO LOT 73 WHC 55.5' TO LOT 73 SHC 30' TO LOT 75 SHC 43' TO SMH -5 75 74' TO LOT 74 WHC 60.5' TO LOT 76 SHC 30' TO LOT 74 SHC 54' TO SMH -5 76 11' TO LOT 76 SHC 63' TO LOT 77 SHC 11' TO LOT 76 WHC 60.5' TO LOT 75 WHI	8. Traversing a channel reach with equipment within the work area where no work is proposed should be avoided. If equipment has to traverse such a reach for access to another area, then timber mats or similar measures should be used to minimize disturbance to the channel. Temporary stream crossings should be used only when necessary and only where noted on the plans or specified. (See Section 4, Stream Crossings, Maryland Guidelines to	cross section of sandbag dike			
17	9. All stream restoration measures should be installed as indicated by the plans and all banks graded in accordance	a cos social di canasag and			
18 20'TO LOT 78 SHC 36'TO LOT 79 SHC 20'TO LOT 78 WHT 66.6'TO LOT 77 WHC 79 26' TO LOT 79 SHC 49'TO LOT 80 SHC 26'TO LOT 79 WHC 36'TO LOT 78 WHC 80 12.6' TO LOT 80 SHC 54'TO LOT 79 WHC 12.5'TO LOT 80 WHC 49'TO LOT 79 WHC	seed and mulch or seed and matting as specified on the plans.				
	flush, a new clean water dike should be established upstream from the old sediment dike. Finally, upon establishment of a new sediment dike below the old one, the old sediment dike should be removed. 11. A pump around must be installed on any tributary or storm drain outfall which contributes baseflow to the work	TEMPORARY INSTREAM CONSTRUCTION MEASURES REVISED NOVEMBER 2000 MARYLAND DEPARTMENT PAGE 12 - 3 WATER MANAGEMEN	OF THE ENVIRONMENT T ADMINISTRATION		
	area. This should be accomplished by locating a sandbag d ke at the downstream end of the tributary or storm drain outfall and pumping the stream flow around the work area. This water should discharge onto the same velocity dissipater used for the main stem pump around.		······································		
	12. If a tributary is to be restored, construction should take place on the tributary before work on the main stem reaches the tributary confluence. Construction in the tributary, including pump around practices, should follow the same sequence as for the main stem of the river or stream. When construction on the tributary is completed,				
	work on the main stem should resume. Water from the tributary should continue to be pumped around the work area in the main stem.				
	13. The contractor is responsible for providing access to and maintaining all erosion and sediment control devices until the sediment control inspector approves their removal. 14. After construction, all disturbed areas should be regraded and revegetated as per the planting plan.				
	14. Area construction, an distanced areas should be regraded a full-vegetated as per the planning plan.				
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					in the second se
	ROW.				
	PAYING WIDTH	3' S ^{2'} (min.)			
	A B C D E	STANDARD CURB & GUTTER	STORM		
	4"		DRAIN		
	GRASS GRASS	1000			
		ROAD PAVING- SIDEWALK	Çi,		
	SIDEMALK SIDEMALK CURB & GUTTER	ROAD PAVING- SIDEWALK VALVE BOX	SEWER MAIN:		
		* 2	SEWER MAIN SEWER HOUSE CONNECTION		
	CURB & GUTTER O WATER R.O.W. PAVING WIDTH A B C D E STORM DRAIN	MAIN WATER VALVE ADJACENT TO TEE			
	CURB & GUTTER O WATER ROW PAVING WIDTH A B C D E	* 2	SEWER HOUSE CONNECTION		
	CURB & GUTTER WATER R.O.M. PAVING WIDTH A B C D E STORM DRAIN 50' 28' 4' 10' 1'-3' T'-4' 5' SEWER	MAIN WATER O' VALVE VALVE ADJACENT TO TEE NOTE: REFER TO HO. CO. STANDARD WATER DETAILS FOR ADDITIONAL REQUIREMENTS	SEWER HOUSE CONNECTION		
	CURB & GUTTER O WATER R.O.W. PAVING WIDTH A B C D E STORM DRAIN	MAIN WATER VALVE ADJACENT TO TEE	SEWER HOUSE CONNECTION		
	CURB & GUTTER WATER R.O.M. PAVING WIDTH A B C D E STORM DRAIN 50' 28' 4' 10' 1'-3' T'-4' 5' SEWER	MAIN WATER O' VALVE VALVE ADJACENT TO TEE NOTE: REFER TO HO. CO. STANDARD WATER DETAILS FOR ADDITIONAL REQUIREMENTS	SEWER HOUSE CONNECTION		
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DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND DEPARTMENT OF PLANNING AND ZONING HOWARD COUNTY, MARYLAND	TYPICAL PAVING CROSS-SECTION W/ NO PARALLEL PARKING PAVING MIDTH A B C D E STORM DRAIN SEPRER TYPICAL PAVING CROSS-SECTION W/ NO PARALLEL PARKING N.T.S. PAVING MIDTH A B C D E F PARKING PAVING MIDTH B STORM DRAIN STORM	MAIN WATER -6' VALVE VALVE ADJACENT TO TEE NOTE: REFER TO HO. CO. STANDARD WATER DETAILS FOR ADDITIONAL REQUIREMENTS TYPICAL ON-SITE FIRE HYDRANT SETTING N.T.S. CURB STOP TO BE LOCATED WITHIN THE 16' FROM BACK OF CURB STOP SIDEWALK AND EASEMENT 3'-6' (TYP) METER VAULT TO BE LOCATED BETWEEN CURB AND SIDEWALK (SEE STD. DETAIL M 3.32) I' WHC/SHC EASEMENT ROW 4' SIDEWALK 4'	SEWER HOUSE CONNECTION ALL SHO'S SHOWN SERVING NUMBERED LOTS ARE 4" DIAMETER 1. ALL SHO'S SHOWN SERVING NUMBERED LOTS ARE 4". 2. ALL MANHOLES WILL BE STANDARD 4'-0" (6 5.12). 3. OUTSIDE METERS WILL BE PER HOWARD COUNTY DETAIL W 3.32 FOR TWIN CONNECTIONS AND DETAIL W 3.28 FOR SINGLE CONNECTIONS. 4. ALL WHO'S SHOWN SERVING NUMBERED LOTS ARE 1 1/2" WITH A 1' METER, OUTSIDE SETTING. 5. EXISTING VALVE TO BE CLOSED BY DPW FOR CONSTRUCTION. PREPARED FOR: GREENEBAUM DEVELOPMENT, INC. SUITE 300 WOODHOLME CENTER 1829 REISTERSTOWN ROAD BALTIMORE, MD 21208 ATTN: MARK BENNETT	CONTRACT No. 24-4702-D MIDTOWN WEST DISTRICT - AREA 1 (PHASE II)	
PUBLIC WORKS HOWARD COUNTY, MARYLAND PLANNING AND ZONING HOWARD COUNTY, MARYLAND	TYPICAL PAVING CROSS-SECTION W/ NO PARALLEL PARKING N.T.S. ROM. PAVING HIDTH A B C D E STORM DRAIN TYPICAL PAVING CROSS-SECTION W/ NO PARALLEL PARKING N.T.S. ROM. PAVING HIDTH A B C D E F PARKING SIDEMALK CURB & GUTTER PAVING HIDTH A B C D D E F PARKING SIDEMALK CURB & GUTTER ROM. PAVING HIDTH A B C D D E F PARKING SIDEMALK CURB & GUTTER ROM. PAVING HIDTH A B C D D E F PARKING SIDEMALK CURB & GUTTER TYPICAL PAVING CROSS-SECTION W/ PARALLEL PARKING N.T.S. TYPICAL PAVING CROSS-SECTION W/ PARALLEL PARKING N.T.S. GLWGUTSCHICK LITTLE & WEBER, P.A. CIVIL ENGINEERS, LAND SURVEYORS, LAND PLANNERS, LANDSCAPE ARCHITECTS SIDEMANNA BURE - SINE SOS - SURVINGALE GINCE PARK TEL: 301-421-4024 BAIT. 410-880-1850 DOVAN 301-489-2024 FAK 301-421-4188 TEL: 301-421-4024 BAIT. 410-880-1850 DOVAN 301-489-2024 FAK 301-421-4188 TEL: 301-421-4024 BAIT. 410-880-1850 DOVAN 301-489-2024 FAK 301-421-4188 CIVIL ENGINEERS, LAND SURVEYORS, LAND COVAN 301-489-2024 FAK 301-421-4188 GL.W. NO. GL.W. NO. GL.W. NO. GL.W. NO. CIVIL STATE OF MARYLAND, COVAN 301-489-2024 FAK 301-421-4188	MAIN NATER VALVE BOX MAIN NATER VALVE ADJACENT TO TEE NOTE: REFER TO HO. CO. STANDARD MATER DETAILS FOR ADDITIONAL REGUREMENTS TYPICAL ON-SITE FIRE HYDRANT SETTING N.T.S. CURB STOP TO BE LOCATED WITHIN THE 16* FROM BACK OF SIDENALK AND EASEMENT 3-6* (TYP) PROPOSED LOT LIVZ* MHC CURB LOT WETER VAULT TO BE LOCATED BETWEEN CURB AND SIDENALK (SEE SITD. DETAIL W.S.32) WHC/SHC EASEMENT A' SIDENALK SERVICE CONNECTION DETAIL N.T.S.	SEVER HOUSE CONNECTION ALL SHO'S SHOWN SERVING NUMBERED LOTS ARE 4" DIAMETER 1. ALL SHO'S SHOWN SERVING NUMBERED LOTS ARE 4". 2. ALL MANHOLES WILL BE STANDARD 4"-0" (6 5.12). 3. CUTSIDE METERS WILL BE PER HOWARD COUNTY DETAIL W 3.32 FOR TWIN CONNECTIONS AND DETAIL W 3.26 FOR SINGLE CONNECTIONS. 4. ALL WHO'S SHOWN SERVING NUMBERED LOTS ARE I 1/2" WITH A 1" METER, CUTSIDE SETTING. 5. EXISTING VALVE TO BE CLOSED BY DPW FOR CONSTRUCTION. PREPARED FOR: GREENEBAUM DEVELOPMENT, INC. SUITE 300 WOODHOLME CENTER 1829 REISTERSTOWN ROAD BALTIMORE, MD 21208 ATTN: MARK BENNETT 410-484-8400 WATER & SEWER NOTES & DETAILS	CONTRACT No. 24-4702-D MIDTOWN WEST DISTRICT - AREA 1 (PHASE II) LOTS 39 thru 49, 52 thru 65, 67 thru 80 and OPEN SPACE DOTS 85 and thru 87	
PUBLIC WORKS HOWARD COUNTY, MARYLAND PLANNING AND ZONING HOWARD COUNTY, MARYLAND AMABILIANA 3/13/12	TYPICAL PAVING MIDTH A B C D E STORM DRAIN R.O.M. PAVING MIDTH A B C D E STORM DRAIN R.O.M. PAVING MIDTH A B C D E F PARALLEL PARKING NT.9. R.O.M. PAVING MIDTH A B C D E F PARALLEL PARKING NT.9. R.O.M. PAVING MIDTH A B C D E F PARALLEL PARKING NT.9. TYPICAL PAVING CROSS-SECTION W/ PARALLEL PARKING NT.9. TYPICAL PAVING CROSS-SECTION W/ PARALLEL PARKING NT.5. TYPICAL PAVING CROSS-SECTION W/ PARALLEL PARKING NT.5. DATE JANUARY, CIVIL ENGINEES, LAND SURVEYORS, LAND PLANNERS, LANDSCAPE ARCHITECTS 3009 MAIIOMAL DRIVE - SUIT 250 - BURTONSMILE OFTICE PARK CIVIL ENGINEES, LAND SURVEYORS, LAND PLANNERS, LANDSCAPE ARCHITECTS 3009 MAIIOMAL DRIVE - SUIT 250 - BURTONSMILE OFTICE PARK PROFESSIONAL CERTIFICATION WERE PERPERTED OR APPROVED BY ME AND THAT I AM A DULY UCKNESD AND THAT I AM A DULY UCKNESD PROFESSIONAL CRETEFICATION WERE PERPERTED OR APPROVED BY ME AND THAT I AM A DULY UCKNESD PROFESSIONAL CRETEFICATION WERE PERPERTED OR APPROVED BY ME AND THAT I AM A DULY UCKNESD AND THAT I AM A DULY UCKNESD PROFESSIONAL CRETEFICATION AND THAT I AM A DULY UCKNESD PROFESSIONAL CRETEFICATION WERE PERPERTED OR APPROVED BY ME AND THAT I AM A DULY UCKNESD PROFESSIONAL CRETEFICATION AND THAT I AM A DULY UCKNESD PROFESSIONAL CRETEFICATION AND THAT I AM A DULY UCKNESD PROFESSIONAL CRETEFICATION AND THAT I AM A DULY UCKNESD AND THAT I AM A DULY UCKNESD PROFESSIONAL CRETEFICATION AND THAT I AM A DULY UCKNESD PROFESSIONAL CRETEFICATION AND THAT I AM A DULY UCKNESD PROFESSIONAL CRETEFICATION AND THAT I AM A DULY UCKNESD PROFESSIONAL CRETEFICATION AND THAT I AM A DULY UCKNESD PROFESSIONAL CRETEFICATION AND THAT I AM A DULY UCKNESD PROFESSIONAL CRETEFICATION AND THAT I AM A DULY UCKNESD PROFESSIONAL CRETEFICATION AND THAT I AM A DULY UCKNESD PROFESSIONAL CRETEFICATION AND THAT I AM A DULY UCKNESD AND THAT I AM DULY UCKNESD AND THAT I AM A DULY UCKNES	TYPICAL ON-SITE FIRE HYDRANT SETTING N.T.S. TYPICAL ON-SITE FIRE HYDRANT SETTING N.T.S. I-I/2* MAC I-I/2* MAC	SEVER HOUSE CONNECTION ALL SHO'S SHOWN SERVING NUMBERED LOTS ARE 4" DIAMETER 1. ALL SHO'S SHOWN SERVING NUMBERED LOTS ARE 4". 2. ALL MANHOLES WILL BE STANDARD 4"-0" (6 5.12). 3. CUTSIDE METERS WILL BE PER HOWARD COUNTY DETAIL W 3.32 FOR TWIN CONNECTIONS AND DETAIL W 3.26 FOR SINGLE CONNECTIONS. 4. ALL WHO'S SHOWN SERVING NUMBERED LOTS ARE I 1/2" WITH A 1" METER, CUTSIDE SETTING. 5. EXISTING VALVE TO BE CLOSED BY DPW FOR CONSTRUCTION. PREPARED FOR: GREENEBAUM DEVELOPMENT, INC. SUITE 300 WOODHOLME CENTER 1829 REISTERSTOWN ROAD BALTIMORE, MD 21208 ATTN: MARK BENNETT 410-484-8400 WATER & SEWER NOTES & DETAILS	CONTRACT No. 24-4702-D MIDTOWN WEST DISTRICT - AREA 1 (PHASE II) LOTS 39 thru 49, 52 thru 65, 67 thru 80	AS SHOWN