## **GENERAL NOTES**

- APPROXIMATE LOCATIONS OF EXISTING MAINS ARE SHOWN. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT EXISTING MAINS AND SERVICES AND MAINTAIN SATISFACTION OF THE ENGINEER AT THE CONTRACTOR'S EXPENSE

- THE CONTRACTOR SHALL NOTIFY THE FOLLOWING UTILITY COMPANIES OR AGENCIES AT LEAST FIVE

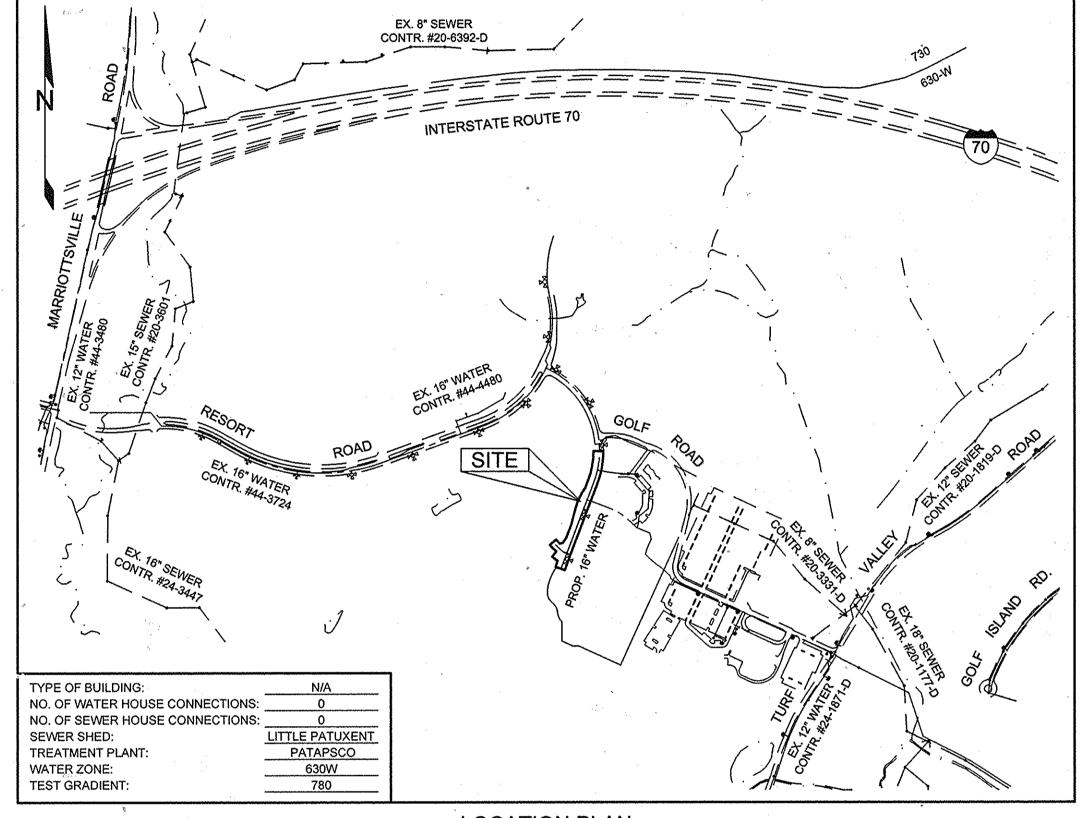
- LEAST 5 WORKING DAYS BEFORE OPEN CUTTING OR BORING/JACKING OF ANY COUNTY ROAD FOR LAYING WATER/SEWER MAINS OR HOUSE CONNECTIONS. THE APPROVAL OF THESE DRAWINGS WILL

- ALL WATER MAINS TO BE D.I.P. CLASS 54 UNLESS OTHERWISE NOTED.
- TOPS OF ALL WATER MAINS TO HAVE A MINIMUM OF 3'-6" OF COVER UNLESS OTHERWISE NOTED
- HYDRANTS SHALL BE INSTALLED IN ACCORDANCE WITH THE STANDARD DETAILS. THE SOIL AROUND

- GASKETED PVC PIPE JOINTS INDICATES THE MAXIMUM DEPTH OF INSERTION OF THE SPIGOT INTO THE BELL. AFTER ASSEMBLY OF THE JOINT, THE INSERTION LINE SHALL REMAIN VISIBLE. DUAL INSERTION OF THE SPIGOT INTO THE BELL. THE CONTRACTOR SHALL NOT OVER INSERT OR OVER HOME THE SPIGOT INTO THE BELL OF THE PVC PIPE.
- 11. ALL CHANGES IN HORIZONTAL OR VERTICAL DIRECTION OF PVC WATER PIPE SHALL BE MADE WITH STANDARD BENDS, 5-DEGREE SWEEPS OR HIGH DEFLECTION (HD) COUPLINGS. NO BENDING OF THE PIPE OR DEFLECTING OF PVC PIPE JOINTS IS PERMITTED. WHERE HIGH DEFLECTION COUPLINGS OF 5-DEGREE SWEEPS ARE PERMITTED, THE CONTRACTOR SHALL PROVIDE ONE FULL PIPE LENGTH (20-FOOT LONG) ON EITHER SIDE OF THE HIGH DEFLECTION COUPLING OF 5-DEGREE SWEEP. THE CONTRACTOR SHALL USE A VIBRATORY PLATE COMPACTOR OR OTHER APPROVED MEANS TO THOROUGHLY COMPACT THE #57 STONE ON BOTH SIDES OF THE HIGH DEFLECTION COUPLING OR FITTING. PVC HIGH DEFLECTION COUPLINGS SHALL BE LIMITED TO A TOTAL DEFLECTION OF 3-DEGREES (1 1/2-DEGREE ON EITHER END OF THE COUPLING), SHALL BE RATED FOR A MINIMUM 200 PSI MEETING REQUIREMENTS OF AWWA C900, SHALL HAVE A MINIMUM LAY LENGTH OF 9-INCHES AND SHALL HAVE CENTER STOPS. PVC HIGH DEFLECTION COUPLINGS SHALL BE CERTAIN TEED PVC HIGH DEFLECTION (HD) STOP COUPLINGS OR EQUAL. FIVE DEGREE SWEEPS SHALL BE BELL BY SPIGOT, RATED FOR A MINIMUM 225 PSI, DR 18 MEETING THE REQUIREMENTS OF AWWA C900 AND SHALL BE MULTI FITTINGS (IPEX) BLUE BRUTE DR18 OR EQUAL.
- 12. WHEN PVC HIGH DEFLECTION COUPLINGS OR PVC 5-DEGREE SWEEPS ARE USED TO FACILITATE CHANGES IN HORIZONTAL OR VERTICAL ALIGNMENTS OF AWWA C-900 PVC PIPELINES, THE CONTRACTOR SHALL INSTALL DEVICES FOR THE PREVENTION OF OVER-INSERTION OF TH EPVC PIPE SPIGOTS OR PLAIN ENDS INTO THE PUSH ON BELL JOINT ON BOTH SIDES OF THE HIGH DEFLECTION COUPLING OR 5-DEGREE SWEEPS. BELL STOPS SHALL BE PLACED AT THE PROPER INSERTION LINE FOR THE FITTING. THE BELL STOP SHALL BE MANUFACTURED OF DUCTILE IRON AND INCORPORATES AN EXPANSION RETENTION SPRING TO ALLOW FOR PIPE EXPANSION AND CONTRACTION. THE BELL STOPS SHALL BE SERIES 5000 MEGA-STOP, AS MANUFACTURED BY EBAA IRON, INC. OR APPROVED

## PUBLIC WATER PLAN TURFVALLEY

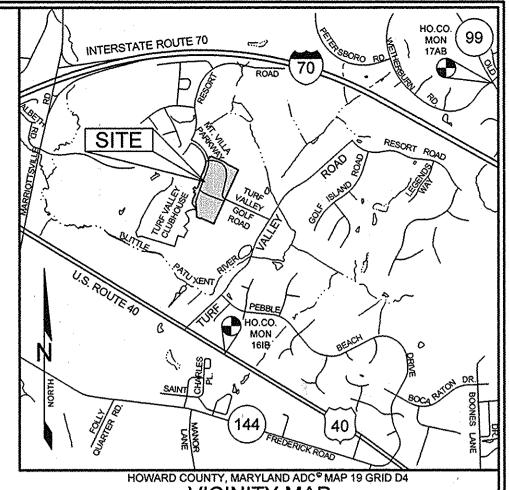
PARCELS E-1 & B-1 AND NON-BUILDABLE BULK PARCELS E-2, B-2, B-3, B-4, B-5 & B-6 HOWARD COUNTY, MARYLAND CONTRACT NO. 44-4855-D



**LOCATION PLAN** 

	WATER MAIN FI	TTING SCHEDUL	E	
APPURTENANCE	ROAD STATION & OFFSET	WATERLINE STATION	COORDINATE	
	MOUNT VIL	LA PARKWAY	4*	
16"x12" REDUCER 9+75.80 7.0' LEFT	9+70.86	N 594,383.9 E 1,343,787.8		
2.0 DEGREE HDC	9+89.11 7,0' LEFT	9+84.17	N 594,371.5 E 1,343,783.1 N 594,361.3 E 1,343,779.2 N 594,339.4 E 1,343,770.9	
12"x6" FHT	10+00.00 7.0' LEFT	9+95.05		
1.0 DEGREE HDC	10+23.44 7.0' LEFT	10+18.50		
1.0 DEGREE HDC	11+29,95.7.0' LEFT	11+25.01	N 594,239.8 E 1,343,733.1	
AIR RELEASE MH	11+89.94 7.0' LEFT	11+85.00	N 594,183.7 E 1,343,711.9	
1/8 VB	13+01.35 7.0' LEFT	12+96.41	N 594,079.5 E 1,343,672.4	
1/8 VB	13+03.14 7.0' LEFT	12+98.20	N 594,077.8 E 1,343,671.7	
12"x8" CROSS	13+08.27 7.0' LEFT	13+03.32	N 594,063.4 E 1,343,648.4	
12" VALVE	13+13.27 7.0' LEFT	13+08.32	N 594,068.4 E 1,343,668.1	
12"x6" FHT	13+40.00 7.0' LEFT	13+34.99	N 594,043.4 E 1,343,658.8	
12" CAP & BUTTRESS	14+09.35 5.0' LEFT	14+04.15	N 593,978.8 E 1,343,634.2	
	BRAVA	A COURT		
8" VALVE	-0+02.00 7.0' LEFT	0+05.00	N 594,074.8 E 1,343,665.2	
1/16 HB (ROTATED)	0+17.46 7.6' LEFT	0+25.00	N 594,081.9 E 1,343,646.5	
8" CAP & BUTTRESS	0+77.79 1.0' RIGHT	0+86.76	N 594,123.8 E 1,343,601.2	
	PAR	CEL E-1		
8" VALVE	N/A	0+05.00	N 594,071.3 E 1,343,674.6	
8" CAP & BUTTRESS	N/A	0+23.00	N 594,064.9 E 1,343,691.4	





	LEGEND	
	SIGN	þ
	LIGHT POLE	POST TOP
	EXISTING UTILITY POLE	Ø
	DIRECTION OF FLOW	mag. Aprilia
	FIRE HYDRANT	№
	HOUSE CONNECTIONS	SHC WHC
	SEWER MANHOLES	TERMINAL
,	WATER TEE AND VALVE	
	WATER HORIZONTAL BEND	
	STORM DRAIN STRUCTURES	INLETS ENDSECTION PIPE

BENCHMARKS				
NUMBER	NORTHING	EASTING	ELEVATION	DESCRIPTION
16IB	590,475.2538	1,344,753.9350	469.892	11.5' SOUTHWEST OF WBL RT. 40, 20.8' WEST OF PK NAIL IN SHOULDER, 66.4' SOUTH OF LAST POST IN GUARDRAIL
17AB	598,435.249	1,348,615.2482	508.469	SE OF INTERSECTION OF RTE. 99 AND WETHERBURN ROAD, 14.8' WEST OF FENCE POST, 35' NE OF MANHOLE

	,	QUAN	TITIES	÷:
NAME OF UTILITY O	ONTRACTOR:	UTILITIES	S UNLIMITE	<b>&gt;</b>
SURVEY AND DRAF	TING DIVISION			
ITEMS	QUANTITIES	AS-BUILT		-BUILT
HENS	ESTIMATED	QUANTITIES	TYPE	MANUFACTURER/SUPPLIER
8" PVC (WATER)	110 LF		C-900	NATIONAL PIPE/ FERGUSON
12" PVC (WATER)	434 LF	,	C-900	NATIONAL PIPE / FERGUSON
8" VALVE	2	2	DIP	AMERICAN FLOW CONTROL/FERGUSON
12" VALVE	1	1	DIP	AMERICAN FLOW CONTROL / FERGUSON
12"x6" FHT	2	2	DIP	TYLER UNION FOUNDRY / FERGUSON
FIRE HYDRANT	2	2		AMERICAN FLOW CONTROL/FERGUSON
1° HDC	2	2	C-900	NORTH AMERICAN SPECIALTY / FERGUSON
2° HDC	1		C-900	NORTHAMERICAN SPECIALTY/FERGUSON
12"x8" CROSS	1	•	DIP	TYLERUNION FOUNDRY / FERGUSON
1/16 VB	1	-1	DIP	TYLER UNION FOUNDRY / FERGUSON
1/8 VB	2	2	DIP	Tyler union foundry / fergoson
16"x12" REDUCER	1	1	DIP	TYLER UNION FOUNDRY/FERGUSON
AIR RELEASE MH	1	1	CONCRETE	ATLANTIC
12" CAP & BUTTRESS	1	1	DIP	TYLER UNION FOUNDRY /FERGUSON
8" CAP & BUTTRESS	2 .	2	DIP	TYLER UNION FOUNDRY / FERGUSON

· · · · · · · · · · · · · · · · · · ·	SHEET INDEX	
SHEET NO.	DESCRIPTION	
1	COVER SHEET	
2	WATER PLAN AND PROFILE	A Continue

OWNER/DEVELOPER

MANGIONE ENTERPRISES OF TURF VALLEY, LP 1205 YORK ROAD, PENTHOUSE **LUTHERVILLE, MARYLAND 21093** 410.825.8400

TURF VALLEY

PARCELS E-1 & B-1 AND

HOWARD COUNTY, MARYLAND

NON-BUILDABLE BULK PARCELS E-2, B-2, B-3, B-4, B-5 & B-6 PART OF PARCELS 8 AND 394

SHEET NO.

SCALE:

SHOWN

CONTRACT NO. 44-4855-D

SEDIMENT CONTROL MEASURES WILL BE IMPLEMENTED IN ACCORDANCE WITH SECTION 308 OF THE STANDARD SPECIFICATIONS AND WITH ROAD CONSTRUCTION PLANS F-14-096 THIS DEVELOPMENT IS APPROVED FOR SOIL EROSION AND SEDIMENT

**DEPARTMENT OF PUBLIC WORKS** 

DEPARTMENT OF PLANNING AND ZONING HOWARD COUNTY, MARYLAND HOWARD COUNTY, MARYLAND

ENGINEERING GROUP, LLC 3300 North Ridge Road, Suite 160 Ellicott City, Maryland 21043 Phone: 443.325.7682 Fax: 443.325.7685 Email: info@sillengineering.com



DESIGNED BY: PS DRAWN BY: PS CHECKED BY: PS

600' SCALE MAP NO. 16

BLOCK NO. 19

**COVER SHEET** 

TAX MAP 16 GRID 19

3RD ELECTION DISTRICT

Civil Engineering for Land Development REVISIONS

