GENERAL NOTES

PART I

- APPROXIMATE LOCATION 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
- 2. THE TOPOGRAPHY SURVEY IS BASED ON A FIELD RUN SURVEY PERFORMED BY ROBERT H. VOGEL ENGINEERING, INC., DATED JANUARY 2006.
- 3. HORIZONTAL AND VERTICAL SURVEY CONTROLS: 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. 36IB, AND NO. 42CA. ALL VERTICAL CONTROLS ARE BASED ON NAVD' 88. VERTICAL CONTROLS PROVIDED ON DRAWINGS ARE:
- GEODETIC SURVEY CONTROL 36IB (ELEV. 386.424 FT.)
 BRASS DISC SET ON TOP OF A CONCRETE MONUMENT, 2.9' NORTH OF
 EAST BOUND LANE CONCRETE CURB OF CENTER MEDIAN ALONG SNOWDEN
 RIVER PKWY, EAST OF McGAW RD.
- GEODETIC SURVEY CONTROL 42CA (ELEV. 376.493 FT.)

 BRASS DISC SET ON TOP OF A CONCRETE MONUMENT, 5.5' EAST OF NORTHBOUND LANE OF SNOWDEN RIVER PARKWAY, AND 44.2' SOUTH OF "45 MPH SPEED LIMIT" SIGN.
- 5. CLEAR ALL UTILITIES BY A MINIMUM OF 12 INCHES. CLEAR ALL POLES BY 5'-0" MINIMUM OR TUNNEL AS REQUIRED UNLESS OTHERWISE NOTED. THE OWNER HAS OF POLES AS SHOWN ON DRAWINGS. IN THE EVENT THE CONTRACTOR'S WORK REQUIRES THE BRACING OF ADDITIONAL POLES, ANY COST INCURRED BY THE OWNER FOR 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.
- FOR DETAILS NOT SHOWN ON THE DRAWINGS, AND FOR MATERIALS AND CONSTRUCTION SPECIFICATIONS AND DETAILS FOR CONSTRUCTION (LATEST EDITION). THE CONTRACTOR SHALL HAVE A COPY OF VOLUME IV ON THE JOB.
- BY THE SYMBOL AT THE LOCATION OF THE TEST PIT. A NOTES 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 OPERATION
- 8. THE CONTRACTOR SHALL NOTIFY THE FOLLOWING UTILITY COMPANIES OR AGENCIES AT LEAST FIVE WORKING DAYS BEFORE STARTING WORK SHOWN THESE PLANS: BGE (CONTRACTOR SERVICE). BGE (EMERGENCY).
- BUREAU OF UTILITIES. COLONIAL PIPELINE CO. 1-800-257-7777 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
- 10. 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 THE CONSTRUCTION OF THE MAIN.
- 11. THE CONTRACTOR SHALL NOTIFY THE BUREAU OF HIGHWAYS, HOWARD COUNTY AT (410) 313-7450 AT LEAST FIVE WORKING DAYS BEFORE ANY 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

- 1. ALL WATER MAINS TO BE D.I.P. CLASS 52 UNLESS OTHERWISE NOTED.
- 2. TOPS OF ALL WATER MAINS TO HAVE A MINIMUM OF 3'-6" COVER UNLESS
- 3. VALVES ADJACENT TO TEES SHALL BE STRAPPED TO TEES.
- 4. ALL FITTINGS SHALL BE BUTTRESSED OR ANCHORED WITH CONCRETE IN ACCORDANCE WITH THE 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 1005 OF THE
- 6. THE CONTRACTOR SHALL NOT OPERATE ANY WATER MAIN VALVES ON THE EXISTING WATER SYSTEM.

PART III - SEWER

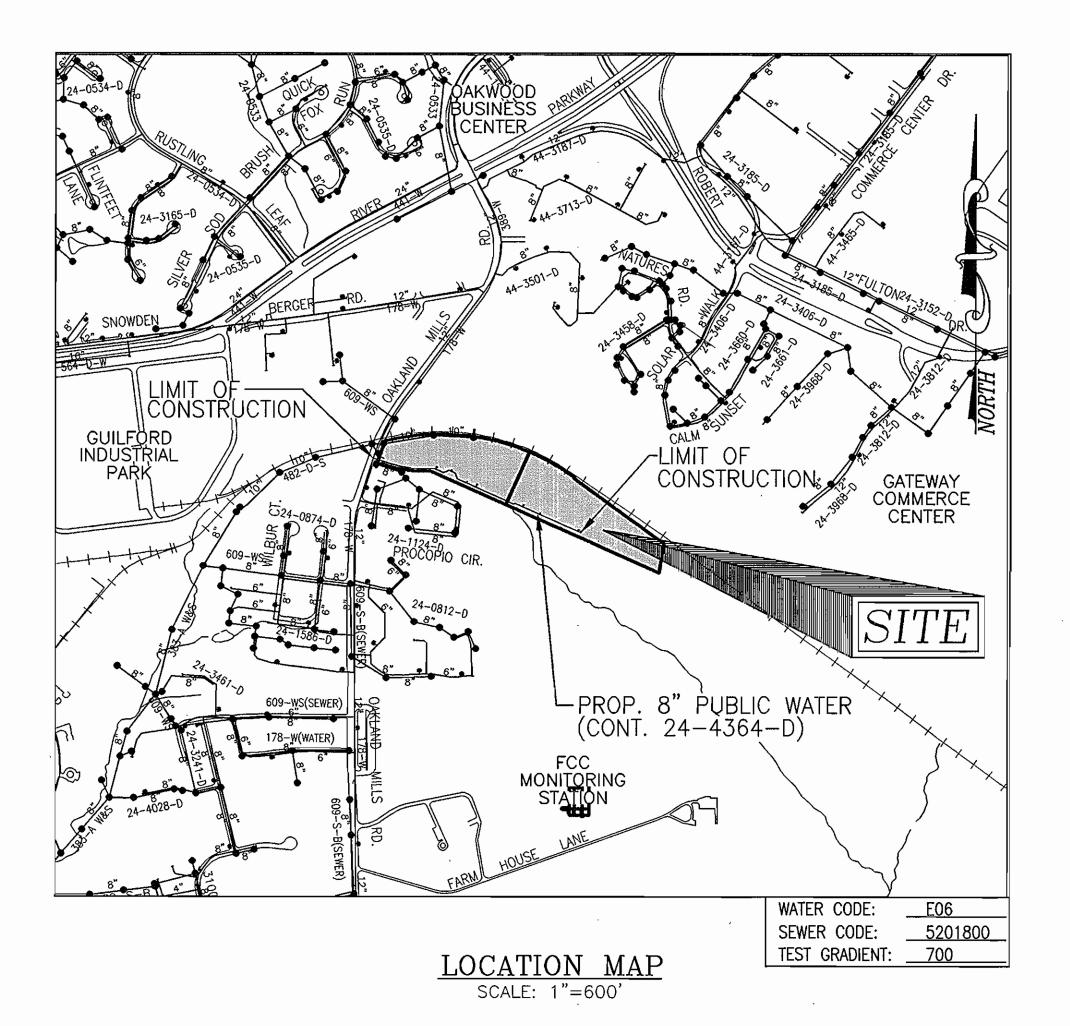
- 1. ALL SEWER MAINS SHALL BE D.I.P. OR P.V.C UNLESS OTHERWISE NOTED.
- 2. ALL MANHOLES SHALL BE 4'-0" INSIDE DIAMETER UNLESS OTHERWISE NOTED.
- 3. FORCE MAINS SHALL BE D.I.P. ONLY.
- 4. MANHOLES SHOWN WITH 12" AND 16" WALLS ARE FOR BRICK MANHOLES ONLY.
- 5. MANHOLES DESIGNATED W.T. IN PLAN AND PROFILE SHALL HAVE WATERTIGHT FRAME AND COVER, STANDARD DETAIL G5.52. WHERE WATERTIGHT MANHOLE FRAME AND COVERS ARE USED, SET TOP OF FRAME 1'-6" ABOVE FINISHED GRADE UNLESS OTHERWISE NOTED ON THE DRAWINGS.
- 6. HOUSE(S) WITH THE SYMBOL "C.N.S." INDICATES THAT CELLAR CANNOT BE SERVED.

FINAL WATER PLAN

STONEWOOD BUSINESS CENTER

PARCEL 'A-2' - E.G.U. SUBDIVISION SECTION 2 / AREA 6 (PER F-74-19c)

CONTRACT NUMBER 24-4364-D

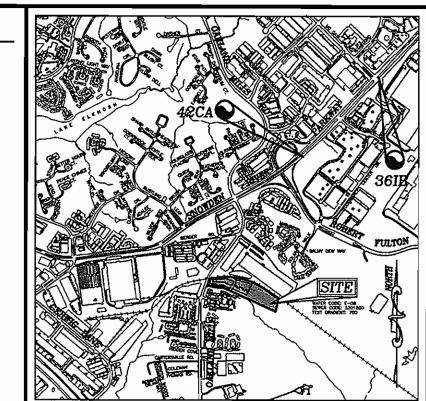


Type of Building :	WAREHOUSE/OFFICE
No. of Lots/Parcels :	1
No. of single Water Hause Connections :	2
Na. of twin Water Hause Connections :	0
No. of Sewer House Connections :	
Drainage Area :	LITTLE PATUXENT RIVER
- ,	PATAPSCO RIVER

BENCHMARKS

HOWARD COUNTY BENCHMARK 42CA N 551695.745 E 1362506.381 ELEV. 377.230 HOWARD COUNTY BENCHMARK 36IB

N 553348.652 E 1364085.211 ELEV. 386.424



SCALE: 1"=2000'

		QUAN'	TITIES	
ME OF UTILITY CON	TRACTOR : MAROCCO	CONSTRUCTION	-	
RVEY AND DRAFTING	G DIVISION AS-BUILT DA	ATE : 11-6-08		
	QUANTITIES	AS-BUILT		
ITEMS	ESTIMATED	QUANTITIES	TYPE	MANUFACTURER/SUPPLIER
		WATER		
8" WATER	1436 LF	1436 LF	DUCTILE CL54	GRIFFEN / GRIFFEN
6" WATER	54 LF	54 LF	DUCTILE CL54	GRIFFEN / GRIFFEN
X 8" TAPPING SLEEVE	1 EA	1 EA	TAPPING SLEEVE	FORD / HD SUPPLY
8" X 8" TEE	2 EA	2 EA	M3 TEE	SIGMA / HD SUPPLY
8" X 6" TEE	6 EA	6 EA	MJ HYDRANTTEE	SIGMA / HD SUPPLY
8" VALVE	4 EA	4 EA	TAPPING VALVE	KENNEDY / HO SUPPLY
6" VALVE	6 EA	GEA	TAPPING VALVE	KENNEDY / HD SUPPLY
6" FIRE HYDRANT	4 EA	4 EA	HYDRANT	MUELLER / BRS
8" - 1/16 BEND	1 EA	1 EA	W2	SIGMA / HD SUPPLY
8" - 1/8 BEND	6 EA	6 EA	W2	SIGMA / HD SUPPLY
' CAP AND BUTTRESS	3 EA	3EA	WZ	SIGMA / HD SUPPLY
CAP AND BUTTRESS	2 FA	2 FA	MZ.	SIGMA / HD SIPPLY

SEDIMENT CONTROL MEASURES WILL BE IMPLEMENTED IN ACCORDANCE WITH SECTION 219 OF THE SPECIFICATIONS AND WITH SITE DEVELOPMENT PLAN SDP-05-105

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

REVIEWED FOR HOWARD COUNTY SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS.

ROBERT H. VOGEL ENGINEERING, INC. NGINEERS . SURVEYORS . PLANNERS 8407 MAIN STREET TEL: 410.461.7666 ELLICOTT CITY, MD 21043 FAX: 410.461.8961

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DEVELOPER STONEWOOD BUSINESS CENTER GUILFORD | LIMITED PARTNERSHIP 11628 LOG JUMP TRAIL ELLICOTT CITY, MARYLAND 21043 301-596-0222

FINAL WATER PLAN **COVER SHEET**

STONEWOOD BUSINESS CENTER PARCEL A-2 - E.G.U. SUBDIMISION SECTION 2 / AREA 6

CONTRACT NO. 24-4364-D TAX MAP 42 BLOCK 11

_ of _3 HOWARD COUNTY, MARYLAND

DEPARTMENT OF PUBLIC WORKS

HOWARD COUNTY, MARYLAND

DEPARTMENT OF PLANNING & ZONING

HOWARD COUNTY, MARYLAND



SHOWN

