

# GENERAL NOTES

#### 1. APPROXIMATE LOCATION OF EXISTING MAINS ARE SHOWN, THE CONTRACTOR SHALL, TAKE ALL NECESSARY PRECAUTIONS TO PROTECT EXISTING MAINS AND SERVICES AND MAINTAIN UNINTERRUPTED SUPPLY. ANY DAMAGE INCURRED SHALL BE REPAIRED IMMEDIATELY TO THE SATISFACTION OF THE ENGINEER AT THE CONTRACTORS EXPENSE.

- 2. ALL HORIZONTAL CONTROLS ARE BASED ON MARYLAND STATE COORDINATES.
- 3. ALL VERTICAL CONTROLS ARE BASED ON U.S.G.S DATA.
- 4. ALL PIPE ELEVATIONS SHOWN ARE INVERT ELEVATIONS.
- 5. CLEAR ALL UTILITIES BY A MINIMUM OF 6". CLEAR ALL POLES BY 2'-0" MINIMUM OR TUNNEL AS REQUIRED. THE OWNER HAS CONTRACTED THE UTILITY COMPANIES AND HAS MADE ARRANGEMENTS FOR BRACING 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 MONEY 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 DRAWINGS, AND FOR MATERIALS AND CONSTRUCTION METHODS USE HOWARD COUNTY DESIGN MANUAL, VOLUME IV, STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION (LATEST EDITION). THE CONTRACTOR SHALL HAVE A COPY OF VOLUME IV ON THE JOB.
- 7. WHERE TEST PITS HAVE BEEN MADE ON EXISTING UTILITIES, THEY ARE NOTED BY THE SYMBOL AT THE LOCATION OF THE TEST PIT. 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 W WORK FOR WHICH TEST PITS HAVE NOT BEEN DUG SHALL BE LOCATEDBY THE CONTRACTOR TWO WEEKS IN ADVANCE OF CONSTRUCTION.
- 8. THE CONTRACTOR SHALL NOTIFY THE FOLLWING UTILITY COMPANIES OR AGENCIES AT LEAST FIVE WORKING DAYS BEFORE STARTING WORK SHOWN

STATE HIGHWAY ADMINISTRATION	531-5533
B.G.&E. CO. CONTRACTOR SERVICES	850- <b>4</b> 620
B.G.&E CO. UNDER GROUND DAMAGE CONTROL	787-90 <b>6</b> 8
MISS UTILITY	1-800-257-777
COLONIAL PIPELINE CO.	795-1390
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS	313-4900
BUREAU OF UTILITIES	

- 9. TREES AND SHRUBS ARE TO BE PROTECTED FROM DAMAGE TO THE MAXIMUM EXTENT. TREES AND SHRUBS LOCATED WITHIN THE CONTRUCTION STRIP ARE NOT TO BE REMOVED OR DAMAGED BY THE CONTRATOR.
- 10. THE CONTRACTOR SHALL REMOVE TREES, STUMPS AND ROOTS ALONG 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) 313-2450 AT LEAST FIVE WORKING DAYS BEFORE ANY OPEN CUT OF ANY COUNTY ROAD OR BORING/JACKING OPERATION IN COUNTY ROADS FOR LAYING WATER/SEWER MAIN OR HOUSE CONNECTIONS. THE APPROVAL OF THESE DRAWINGS WILL CONSTITUTE COMPLIANCE WITH DPW REQUIREMENTS PER SECTION 18.114(a) OF THE HOWARD COUNTY CODE.
- 12. COORDINATES BASED ON NAD '83, MARYLAND COORDINATE SYSTEM AS PROJECTED BY HOWARD COUNTY GEODETIC CONTROL STATIONS NO. 35C5 AND NO. 0025. 35C5 N 562,148.416 E 1,344,554.506 0025 N 559,255.308 E 1,344,683.964

# PART II — WATER

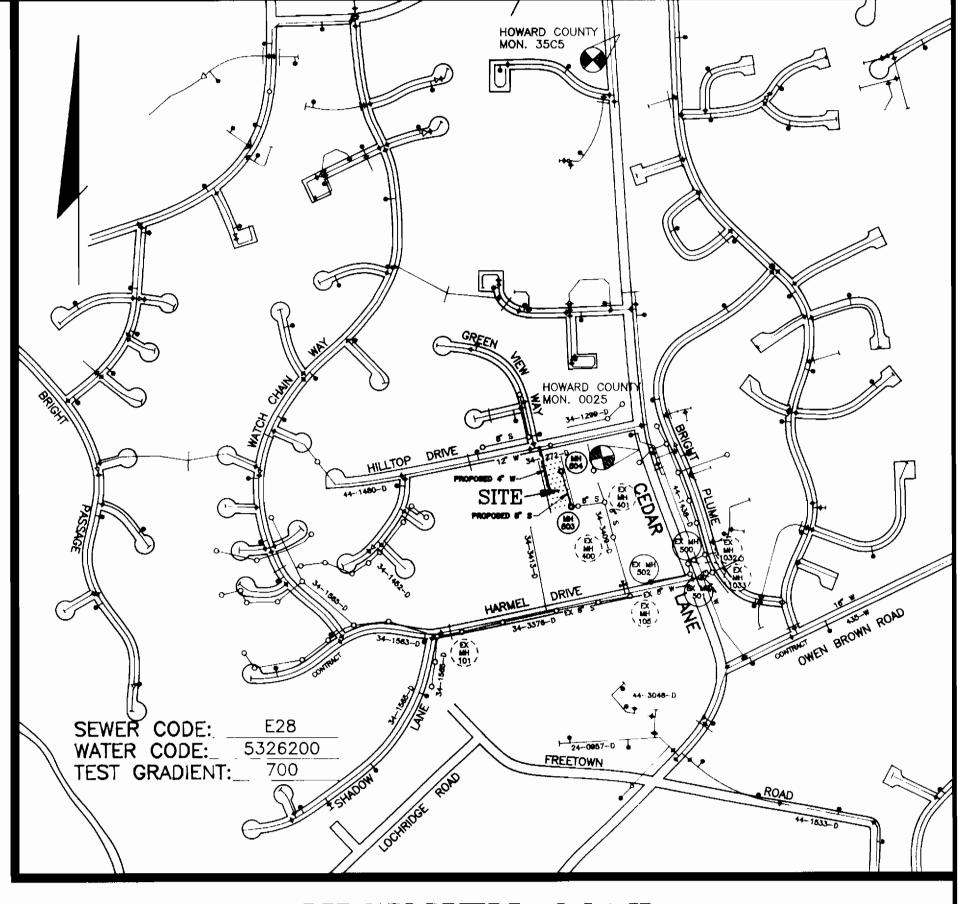
- 1. ALL WATER MAINS TO BE D.I.P. CLASS 52 UNLESS OTHERWISE NOTED.
- 2. TOPS OF ALL WATER MAINS TO HAVE A MINIMUM OF 3-1/2' COVER UNLESS OTHERWISE NOTED.
- 3. VALVES ADJACENT TO TEES SHALL BE STRAPPED TO TEES.
- 4. ALL FITTINGS SHALL BE BUTTRESSED OR ANCHORED WITH CONCRETE IN ACCORDACE WITH CONCRETE 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 RESTRAINED AND BUTTRESSED WITH CONCRETE IN ACCORDANCE WITH STANDARD DETAILS, SOIL AROUND FIRE HYDRANT SHALL BE COMPACTED IN ACCORDANCE WITH SECTION 1000 AND 1005 OF THE STANDARD SPECIFICATIONS.
- 6. THE CONTRACTOR SHALL NOT OPERATE ANY WATER MAIN VALVES ON THE EXISTING WATER SYSTEM.
- 7. ALL WATER HOUSE CONNECTIONS SHALL BE FOR INSIDE METER SETTING UNLESS OTHERWISE NOTED ON PLANS OR IN SPECIFICATIONS.
- 8. A STATE HIGHWAY UTILITY PERMIT WILL BE REQUIRED PRIOR TO CONSTRUCTION WITHIN ROUTE 1 RIGHT-OF-WAY, JACK AND BORE METHOD UNDER ROUTE 1 WILL BE REQUIRED BY THE S.H.A. UTILITY ENGINEER.

# <u>PART III — SEWER</u>

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

# SHC INVERTS @ EASEMENT CHART

·	STATION	LOT	ELEVATION			
	MH	503 TO MH	504			
	@ MH 504 LT	LOT 1	415.80			
	2+51 RT	LOT 2	414.84			
	1+53 LT	LOT 3	411.72			
	0+50 RT	LOT 4	408.71			



# VICINITY MAP SCALE: 1'' = 600'

TYPE OF BUILDING:	HED
NO. OF LOTS/PARCELS: 4 BUILDABLE: 4	·•
NO. OF WATER HOUSE CONNECTIONS: 4*	
NO. OF SEWER HOUSE CONNECTIONS: 4**	<i>.</i>
DRAINAGE AREA: MIDDLE PATUXENT	<u>.</u>
TREATMENT PLANT: LITTLE PATUXENT	

\*EXISTING DWELLING ON LOT 1 IS CURRENTLY SERVED BY WELL, TO BE ABANDONED. \*\* EXISTING SEPTIC SYSTEM ON LOT 1 TO BE ABANDONED

4" CAP & BUTTRESS	1		M.I. (AP(OLD)	GRIECINI PIRE
4" TAPPING SLEEVE & VALVE	1	ANT SECTION SECTION	INC. W. DECT CV. (1.F.)	GRIFFIN PIPE BLEEVE = FORD A-126 CLASSES VALVE = KENNEDY RISA-126 CLASSES
4" WATER	370 L.F.		D. I.P. EL 52	GRIFFIN PIPE
3/4" W.H.C.	46 L.F.		TYPE'K COPPER	CAMBRIDGE LEE ASTM PO88
4" SEWER	<b>4</b> 2 L.F.		P.V.Z.	HARZO
8" SEWER	303 L.F.		1.	41
MANHOLES	2		PRECAST CONCRETÉ	ATLANTIC CONC. PRODUCTS
ITEMS	QUANTITIES	QUANTITIES	TYPE	MANUFACTURER/SUPPLIER
	ESTIMATED		AS-E	BUILT

QUANTITIES NAME OF UTILITY CONTRACTOR: FALLSTON CONSTRUCTION CO. SURVEY AND DRAFTING DIVISION AS-BUILT DATE

DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND

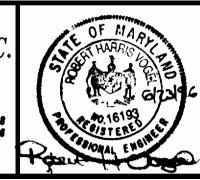
DEPARTMENT OF PLANNING & ZONING HOWARD COUNTY, MARYLAND

U.S. -SOIL CONSERVATION DISTRICT - SER WRE

NATURA RESOURCES

MARKS & VOGEL ASSOCIATES, INC

TELEPHONE: (410) 461-5828 FAX: (410) 465-3966



U.S. DEPARTMENT OF AGRICULTURE

bulges occur or when sediment accumulation reached 50% of the fabric height.

DATE:1/15/96 BY NO.

055. 2011		
DES: D.G.H.		
DRN: d.g.h.		
CHK: R.H.V.		

**REVISION** 

MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION

PLAN OF SEWER MAIN

DATE 600' SCALE MAP NO. 35 BLOCK NO. 11

KLIMA PROPERTY CONTRACT 34-3545-D

TAX MAP #35 CEDAR ACRES, PLAT LIBER 4 FOLIO 11 ZONED R-20 HOWARD COUNTY, MARYLAND 5TH ELECTION DISTRICT

**SCALE** AS SHOWN SHEET <u>\_1\_of\_1</u>