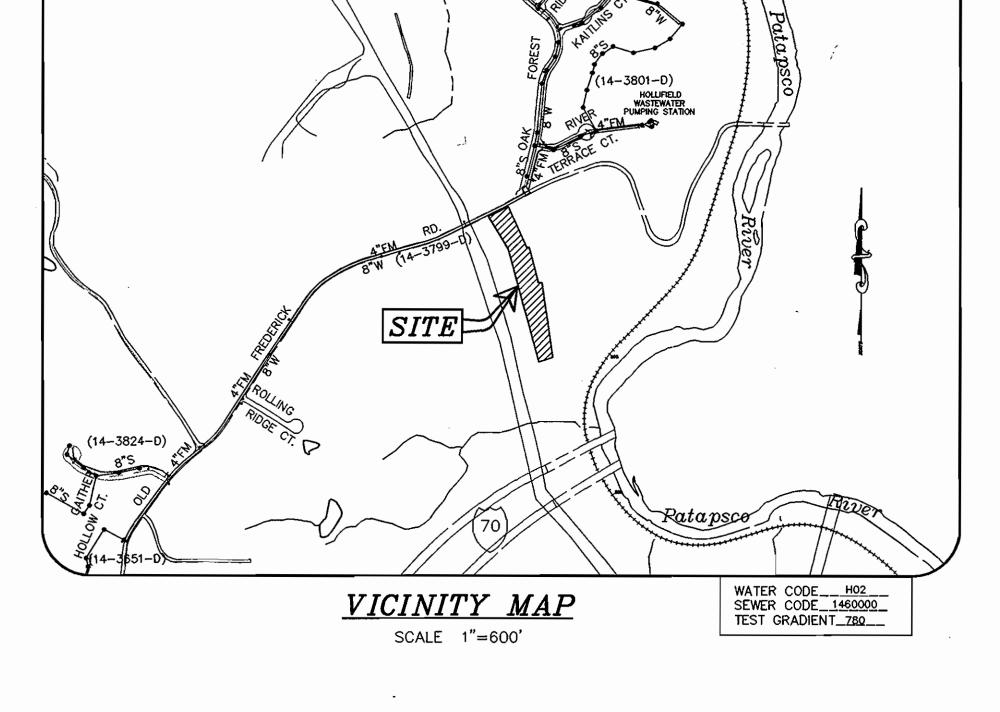
ITEMS	QUANTITIES ESTIMATED	OHANDING MYDE MANUELOUDED CHIRDLES				
· .	ESTIMATED	Q-11111111	TYPE	MANUFACTURER/		
STANDARD MH (HO. CO. STD.G-5.12)	4	4	G 5.12	CONTRACTORS FRECA	,	
8" SEWER MAIN (DIP)	416 L.F.	403	D.I.P.	BELAIR ROAD SUPPLY	Griffil Pipe	
8" SEWER MAIN (P.V.C.)	336 L.F.	334	P.V.C. SDQ.35	BELAIR RD. SUPPL	Y/J.M.MTG.	
4" SEWER HOUSE CONNECTION	200 L.F.	D.IR=167 RV.C=24 >191	PVC·SDR36 DIP-CL52	J.M.M.FG. /GRIFFIN	I PIPE	
# SEWER HOUSE CONNECTIONS	8 EACH	8		BELAIR ROAD SUPPL		
6" WATER MAIN/8"WATER MAIN	365 L.F.	8" D.I.P. + 61.50 6" D.I.P. + 300.0	361.50	BELAIR ROAD SUPE	PIPE	
1" WATER HOUSE CONNECTION	170 L.F.	<i>228</i>				
# 1" WHC	8 EACH	8			_	
8"x 8" T.S & V. (8" T.S. & V.)	1 EACH	l EA		BRS/MUELLER CO.	J.C.M.	
6" CAP & BUTTRESS	1 EACH	1 "		BELAIR ROAD SUPP	LY/SIGMA CORE	
1/32 H.B. (4") 6"-11/4 DENDM.J.	1 EACH	1.5		u u a	<i>j</i> 4 11	
1.5" DRAIN	1 EACH	1	TYPE K COPPERTUB	n 11 11	CAMBRICGE LEE	
FIRE HYDRANT	· 12,L.F.	1 -		MUELLER	WORKS INC.	
G" FIRE HYDRANT VALVE	EACH	1			NO CERT. PAPE	
NAME OF UTILITY CONTRACTOR:	C. J. MILLER	2				
SURVEY AND DRAFTING DIVISION	AS-BUILT DA	TE	4			
G" D.I.P. FOR FIRE HYDRANT		0.51		WATER WORKS INC	MUELLER CO.	
8" X G" REDUCER		ı			NO CERT PAPER	
<u> </u>						

EROSION AND SEDIMENT CONTROL FOR THIS CONTRACT IS PROVIDED UNDER GP-07-085 ; GP-07-086

> A WTHOMIZED DATE PA MEN PRIMENTS



TYPE OF BUILDING_ No. OF UNITS_ No. OF WATER HOUSE CONNECTION No. OF SEWER HOUSE CONNECTIONS DRAINAGE AREA PATAPSCO RIVER
TREATMENT PLANT PATAPSCO WATER RECLAMATION PLANT

14 - 4228 - DPALMER HILL WATER AND SEWER MAIN EXTENSIONS HOWARD COUNTY, MARYLAND DEPARTMENT OF PUBLIC WORKS

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 SERVICE. ANY DAMAGE INCURRED SHALL BE REPAIRED IMMEDIATELY TO THE SATISFACTION OF THE ENGINEER AT THE CONTRACTOR'S EXPENSE.

ALL HORIZONTAL CONTROLS ARE BASED ON MARYLAND STATE COORDINATES NAD83/91 AS PROJECTED BY HOWARD COUNTY HORIZONTAL AND VERTICAL GEODETIC CONTROL NOS. 31D4 & 31IA. THESE WATER AND SEWER DRAWINGS ARE BASED ON A FIELD RUN TOPOGRAPHIC STUDY PERFORMED BY MILDENBERG, BOENDER AND ASSOCIATES, INC. ON OR ABOUT MARCH 2002.

ALL VERTICAL CONTROLS ARE BASED ON NAVD 88.

- ALL PIPE ELEVATIONS SHOWN ARE INVERT ELEVATIONS UNLESS OTHERWISE NOTTED ON THE PLAN. CLEAR ALL UTILITIES BY A MINIMUM OF 12". CLEAR ALL POLES BY 5'-0" MINIMUM OR TUNNEL AS REQUIRED. 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 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 DRAWINGS, AND FOR MATERIALS AND CONSTRUCTION METHODS USE HOWARD COUNTY DESIGN MANUAL, VOLUME IV, STANDARD SPECIFICATIONS AND DETAIL FOR CONSTRUCTION (LATEST EDITION). THE CONTRACTOR SHALL HAVE A COPY OF
- WHERE TEST PITS HAVE BEEN MADE ON EXISTING UTILITIES, THEY ARE NOTED BY THE SYMBOL � AT THE LOCATIONS 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 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. 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) 850-4620 BGE (UNDERGROUND DAMAGE CONTROL) (410) 787-9068

BUREAU OF UTILITIES (410) 313-4900 COLONIAL PIPELINE CO. (410) 795-1390 MISS UTILITY 1-800-257-7777 STATE HIGHWAY ADMINISTRATION (410) 431-5533 1-800-743-0033/(410_ 224-9210

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. CONTRACTOR SHALL REMOVE TREES, STUMPS AND ROOTS ALONG LINE OF EXCAVATION. PAYMENT FOR SUCH REMOVAL SHALL BE INCLUDED IN THE UNIT PRICE BID FOR CONSTRUCTION OF THE

11. THE CONTRACTOR SHALL NOTIFY THE BUREAU OF HIGHWAYS, HOWARD COUNTY, AT (410)313-7450 AT LEAST FIVE (5) WORKING DAYS BEFORE OPEN CUTTING OR BORING/JACKING OF ANY COUNTY ROAD 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 TH HOWARD

12. ALL WATER MAINS TO BE D.I.P. CLASS 52 UNLESS OTHERWISE NOTED. 13. TOPS OF ALL WATER MAINS SHALL HAVE A MINIMUM OF 3'-6" COVER UNLESS OTHERWISE NOTED.

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

15. ALL FITTINGS SHALL BE BUTTRESSED OR ANCHORED WITH CONCRETE IN ACCORDANCE WITH THE

STANDARD DETAILS UNLESS OTHERWISE PROVIDED FOR ON THE DRAWINGS. 16. 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. SOIL AROUND THE FIRE HYDRANT SHALL BE COMPACTED IN ACCORDANCE

WITH SECTION 1000 AND 1005 OF THE STANDARD SPECIFICATIONS. 17. THE CONTRACTOR SHALL NOT OPERATE ANY WATER MAIN VALVES ON THE EXISTING WATER

18. ALL WATER HOUSE CONNECTIONS SHALL BE FOR INSIDE METER SETTING UNLESS OTHERWISE NOTED ON PLANS OR IN SPECIFICATIONS.

19. ALL SEWER MAINS SHALL BE P.V.C. OR D.I.P. CLASS 52 UNLESS OTHERWISE NOTED.

20. ALL MANHOLES SHALL BE 4'-0" INSIDE DIAMETER UNLESS OTHERWISE NOTED.

21. FORCE MAIN SHALL BE D.I.P. ONLY.

22. MANHOLES SHOWN WITH 12" OR 16" WALLS ARE FOR BRICK MANHOLE ONLY. 23. 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

24. STATIONING SHOWN IS WATER MAIN AND CENTER LINE STATIONING.

25. ALL SEWER HOUSE CONNECTIONS TO BE 4" IN SIZE.

26. ALL WATER HOUSE CONNECTIONS TO BE 1" IN SIZE UNLESS OTHERWISE NOTED.

27. ALL HOUSES WILL HAVE SERVICE TO LOWEST FLOOR UNLESS OTHERWISE NOTED.

28. COMPACTION IN FILL AREAS TO BE 95% AS DETERMINED PER AASHTO T-180.

29. THE PRESSURE AT THE WATER MAIN WILL BE APPROXIMATELY 120 PSI. ADDITIONAL PROTECTION FOR RESIDENTIAL PLUMBING MAY BE REQUIDERD.

INDEX OF DRAWINGS

NO.	DESCRIPTION
, 1 .	TITLE SHEET
2	WATER AND SEWER PLAN AND PROFILES

OWNER/DEVELOPER

PALMER PROPERTY, LLC 5072 DORSEY HALL DRIVE, SUITE 202 ELLICOTT CITY, MARYLAND 21043 (410) 997-0296

PARED IN ACCORDANCE WITH THE REQUIREMENTS OF SOIL CONSERVATION DISTRICT. REVIEWED FOR HOWARD SCD AND MEETS TECHNICAL REQUIREMENTS. THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL

DEPARTMENT OF PUBLIC WORKS

HOWARD COUNTY, MARYLAND

CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS AND THAT

I/WE CERTIFY THAT ALL DEVELOPMENT AND 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 DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE

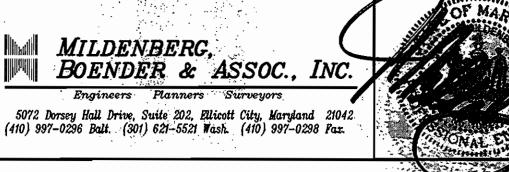
PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT

8"WATER VALVE

PLAN REFERENCE NUMBERS:

DEPARTMENT OF PLANNING & ZONING HOWARD COUNTY, MARYLAND

F-03-210



engineering				•
MMM				
illustration MMM				
approval				
	KCI	3	AS-BUILT OATA SHOWN	11/25/07
project	RDB	2	REVISED TO SHOW PROPER EROSION ? S.C. GP NUMBERS & REV. atys	7/26/07
03-047	MMM	1	CHANGED NOMBER OF SHE AND WHE	10/12/06
date OCT. 05	BY	NO.	REVISION	DATE

TITLE SHEET

600' SCALE MAP NO.____18____ BLOCK NO.___7__

SECOND ELECTION DISTRICT HOWARD COUNTY

PALMER HILL CONTRACT NO.: 14-4228-D AS SHOWN

1 of 2

