### 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
- A FIELD RUN TOPOGRAPHIC SURVEYS WERE PERFORMED BY ROBERT H. VOGEL ENGINEERING, INC., DATED OCTOBER 2004.
- HORIZONTAL AND VERTICAL SURVEY CONTROLS:
- CONTROL STATIONS NO. 42E3, NO. 42E4.

- 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 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.
- SPECIFICATIONS AND DETAILS FOR CONSTRUCTION (LATEST EDITION). THE CONTRACTOR SHALL HAVE A COPY OF VOLUME IV ON THE JOB.
- BY THE SYMBOL 3 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 E THE CONTRACTOR TWO WEEKS IN ADVANCE OF CONSTRUCTION OPERATION
- THE CONTRACTOR SHALL NOTIFY THE FOLLOWING UTILITY COMPANIES OR AGENCIES ..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
- 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 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 O HOUSE CONNECTIONS. THE APPROVAL OF THESE DRAWINGS WILL CONSTITUTE COMPLIANCE WITH DPW REQUIREMENTS PER SECTION 18.114(a) OF THE HOWARD COUNTY CODE.

## 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'-6" 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 THE STANDARD DETAILS UNLESS OTHERWISE PROVIDED
- 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 STANDARD SPECIFICATIONS.
- 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.
- 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.
- HOUSE(S) WITH THE SYMBOL "C.N.S." INDICATES THAT CELLAR CANNOT BE SERVED.

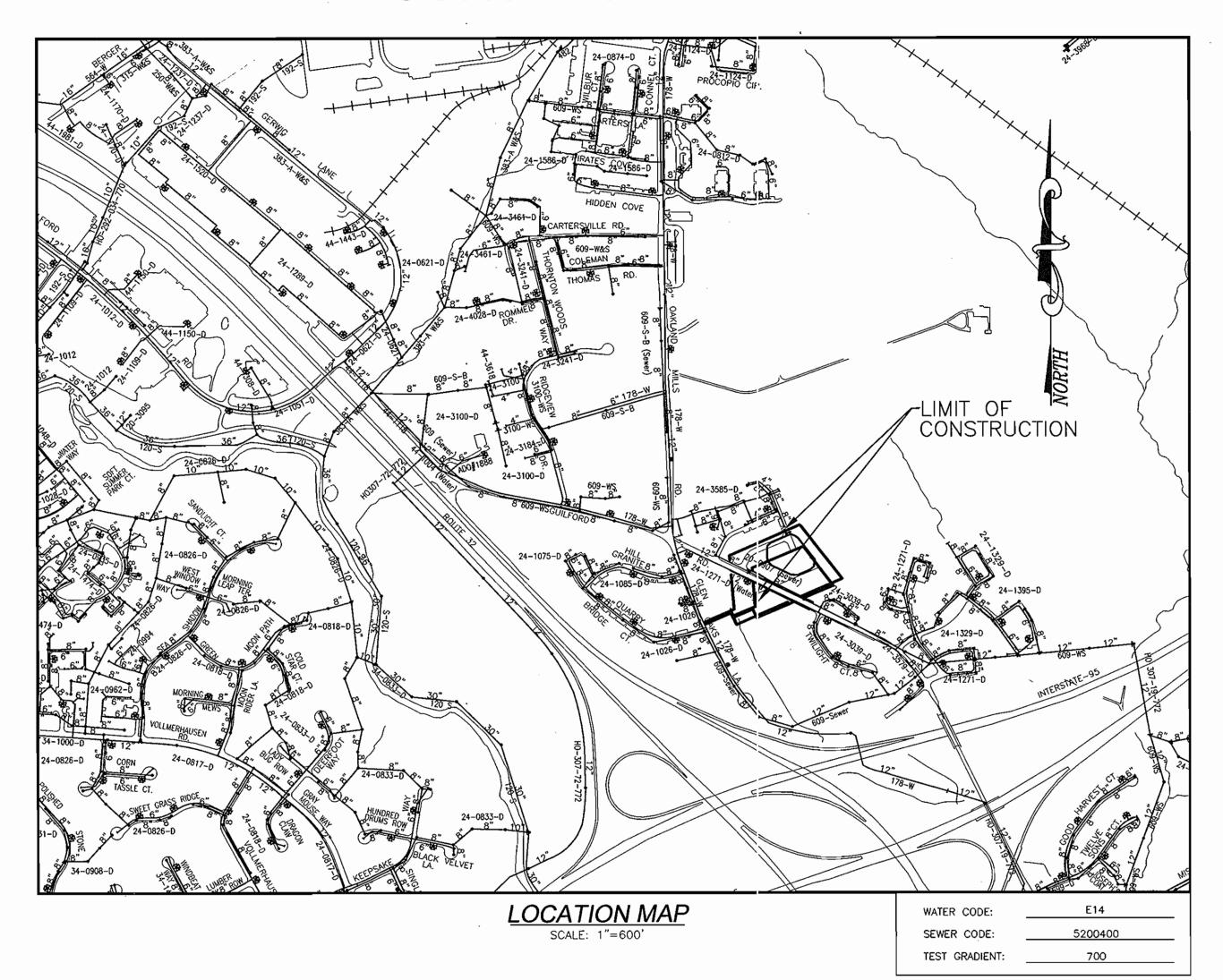
THIS DEVELOPMENT IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD COUNTY SOIL CONSERVATION DISTRICT.



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

# TRENT/LASTER PROPERTY PUBLIC WATER & SEWER CONSTRUCTION PLAN

HOWARD COUNTY, MARYLAND CONTRACT NO. 24-4337-D



		,				
		QUANT	TITIES			
NAME OF UTILI	TY CONTRACTO	OR : C.C.S. /L/C.				
SURVEY AND D	RAFTING DIVIS	SION AS-BUILT DA	TE:			
ITEMS	QUANTITIES	AS-BUILT				
IIEMS	ESTIMATED	QUANTITIES	TYPE	MANUFACTURER/SUPPLIER		
	WATER					
8" WATER	1120 L.F.	1,120	CL-52	GRIFFIN   BELAIRRO SUPPLY		
8" VALVE	4 EA.	4	CATE V.	HUELLER / B.R.S.		
8"x8" TEE	1 EA.	1	M.J.	SIGMA   B.R.B.		
8" 1/16 BEND	7 EA.	7	M.J.	SIGMA / BRS		
8" 1/8 BEND	4 EA.	4	M.J.	SICMA   BRS		
8" 1/32 BEND	3 EA.	3	M.J.	SIGMAI BRS		
8" CAP AND BUTTRESS	1 EA.	1	M.J.	SIGMA / BRS		
FIRE HYDRANT	3 EA.	. 3	M.J	MUELLER/BRS		
8"x6" FIREHYDRANT TEE	3 EA.	3	M.J.	SIGNAL   BRS		
8" S	81 LF	81	5DR-35	NATIONALIBRS		
MANHOLE	3 EA.	3	SANITARY	ATCANTIC/ATCANTIC INC.		
8"X12" TAPPING SLEEVE & VALVE	1 EA.	1	S.S.TAP	ROMAC/ BRS		
6" VALVE	3 EA.	3	CATE	MUELLER/BRS		

"K"COPPER

874

874 L.F.

1/2" WHC

**BENCHMARKS** 

HOWARD COUNTY CONTROL TRAVERSE NO. 42E3

HOWARD COUNTY CONTROL TRAVERSE NO. 42E4

N 546528.833 E 1357894.405 ELEV. 306.552

N 544850.922 E 1359466.467 ELEV. 337.610

TOWNHOUSE UNITS TYPE OF BUILDING: 45 NO. OF UNITS: NO. OF WATER HOUSE CONNECTIONS: NO. OF SEWER HOUSE CONNECTIONS: LITTLE PATUXENT RIVER DRAINAGE AREA: GUILFORD TREATMENT PLANT:

> **DEVELOPER** LAND DESIGN AND DEVELOPMENT 5300 DORSEY HALL DR STE 102 ELLICOTT CITY MD 21042-7819 ATTN: MR. DONALD R. REUWER (410) 480-9105

READING TUBE / BRS

CHIEF, BUREAU OF UTILITIES

SEDIMENT CONTROL MEASURES WILL BE IMPLEMENTED IN ACCORDANCE WITH SECTION 219 OF THE SPECIFICATIONS AND WITH FINAL PLAN SDP-05-151.

DEPARTMENT OF PLANNING & ZONING DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND

HOWARD COUNTY, MARYLAND

ROBERT H ENGINEERI	. Vogel ng, Inc.
ENGINEERS . SURVEY	ORS • PLANNERS
8407 MAIN STREET ELLICOTT CITY, MD 21043	TEL: 410.461.7666 FAX: 410.461.8961

DES: RJ/MY						
DLO.	KOUNT					8
DRN:	RJ/MY					
1,01111		KCI	2	ASBUILT DATA	6/1/07	8
CHK:	RHV		1	REVISE WATER LINE PER REVISED ROAD ALIGNMENT		
	MADOU			SHOWN ON APPROVED SDF-05-151.	3-7-07	600' SCAI
DATE: MARC	MARCH 2006	BY	NO.	REVISION	DATE	BLOCK N

NATER SEWER	014 *	
1AP NO. <u>42</u>	ROBERT H. VOGEL, PE No.16193	TAX MAP 42 6TH ELECTION DIS REF.: SDP-05-151



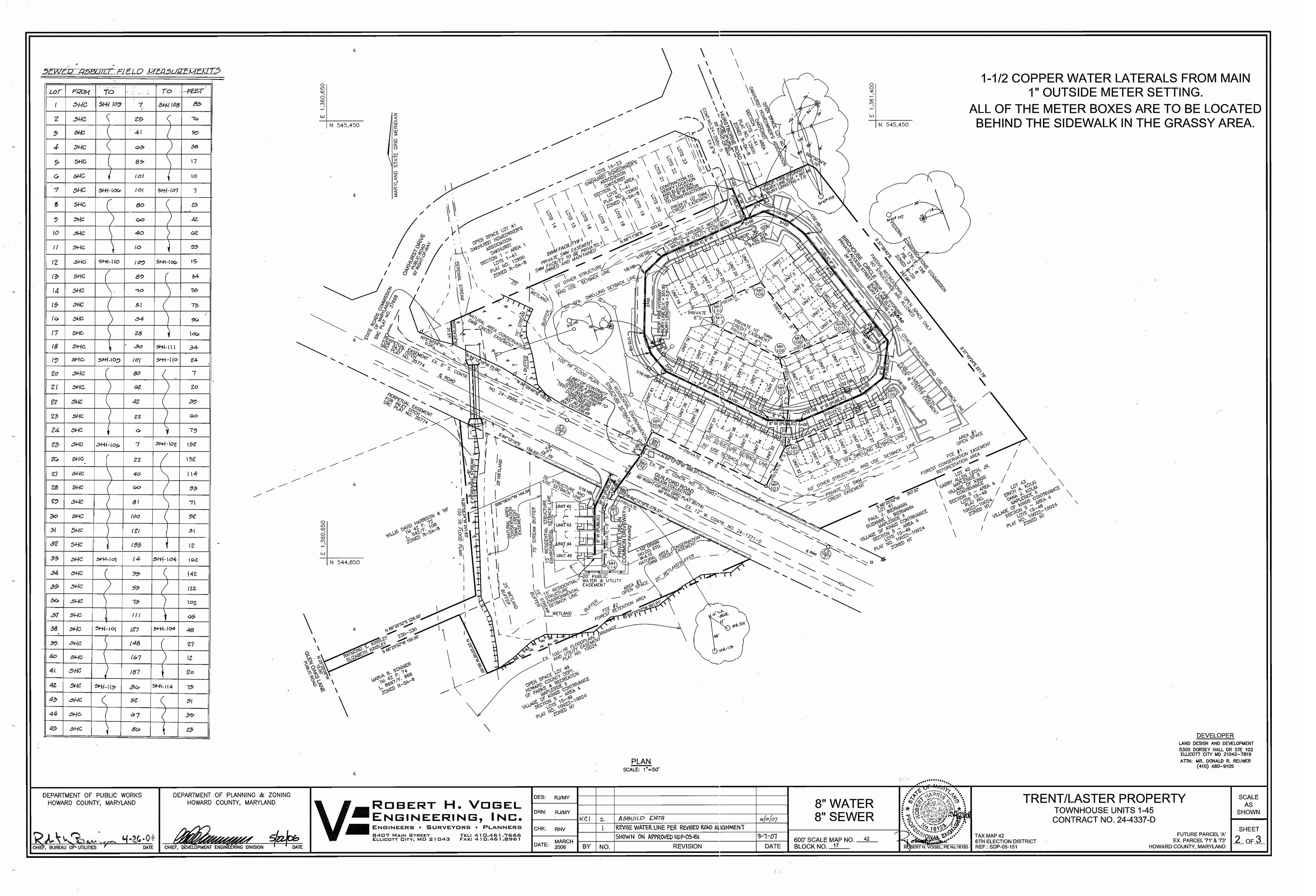
TRENT/LASTER PROPERTY **TOWNHOUSE UNITS 1-45** 

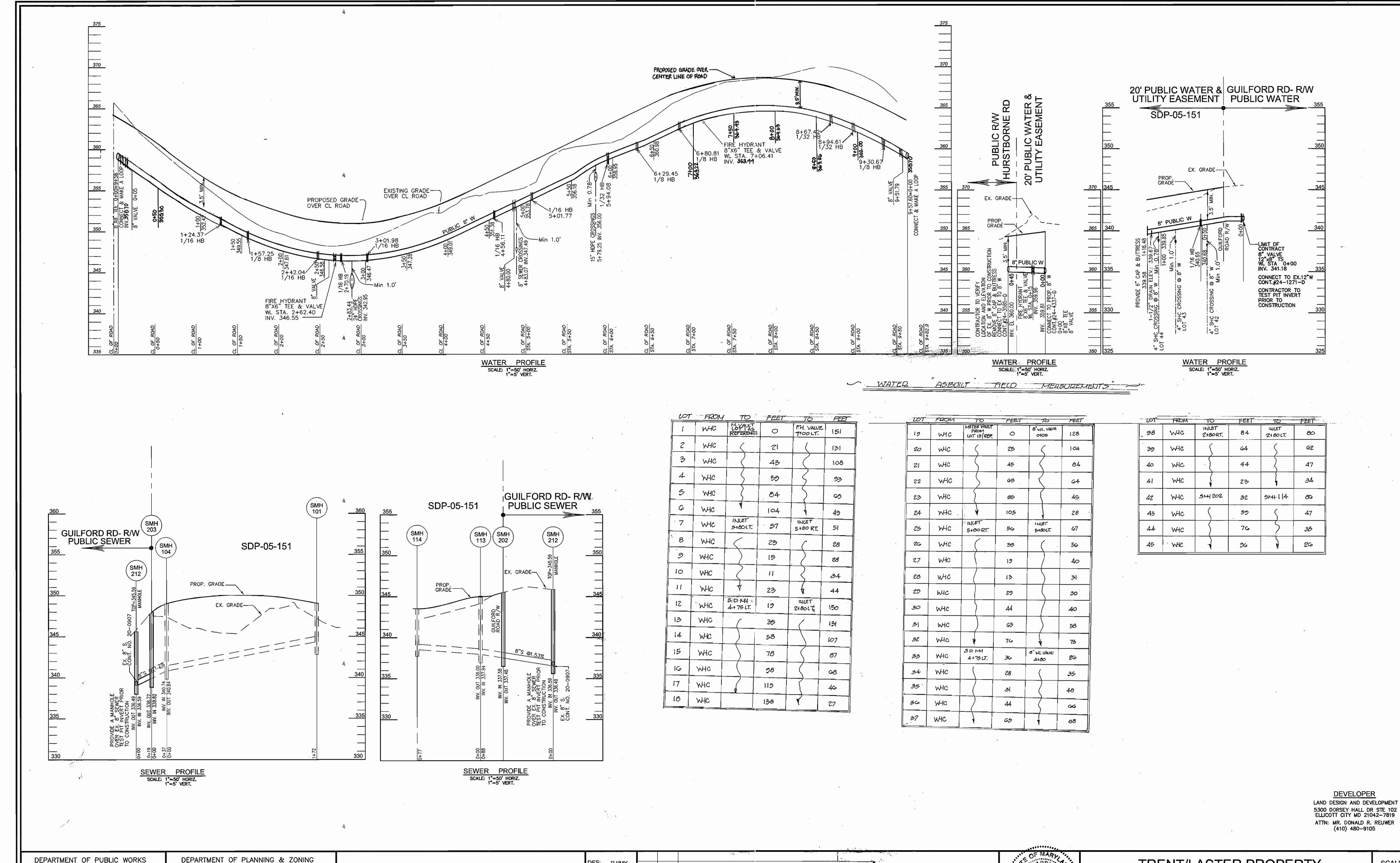
TAX MAP 42 **6TH ELECTION DISTRICT** 

**FUTURE PARCEL 'A'** EX. PARCEL '71' & '73' HOWARD COUNTY, MARYLAND

SHOWN \_of<u>3</u>\_

SCALE





CHIEF, BUREAU OF UTILITIES

HOWARD COUNTY, MARYLAND

HOWARD COUNTY, MARYLAND

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

DES:	RJ/MY					
						,
DRN:	RJ/MY					
		2	ASBUILT DATA	602/07		
CHK:	RHV		ì	REVISE WATER LINE PER REVISED ROAD ALIGNMENT		
			SHOWN ON APPROVED SDF-05-151.	3-7-07	6001	
DATE: MARCH 2006	BY	NO.	REVISION	DATE	600' BLO	

8" WATER 8" SEWER 0' SCALE MAP NO. <u>42</u> .OCK NO. <u>17</u>

TAX MAP 42 6TH ELECTION DISTRICT REF.: SDP-05-151

TRENT/LASTER PROPERTY **TOWNHOUSE UNITS 1-45** 

**CONTRACT NO. 24-4337-D** 

SHEET FUTURE PARCEL 'A'
EX. PARCEL '71' & '73'
HOWARD COUNTY, MARYLAND

SCALE

SHOWN