- 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
- VOGEL ENGINEERING, INC.
- THE COORDINATES SHOWN ON THE DRAWINGS ARE BASED ON MARYLAND STATE REFERENCE SYSTEM NAD '83/'91 AS PROJECTED BY HOWARD COUNTY GEODETIC CONTROL STATIONS 3513 AND 41CC.

- MINIMUM OR TUNNEL AS REQUIRED UNLESS OTHERWISE NOTED. THE OWNER HAS CONTACTED THE UTILITY COMPANIES AND HAS MADE ARRANGEMENTS FOR BRACING OF POLES AS SHOWN ON DRAWINGS. IN THE EVENT THE CONTRACTOR'S WORK OWED THE CONTRACTOR. THE CONTRACTOR SHALL COORDINATE WITH THE UTILITY COMPANIES TO SCHEDULE THE BRACING OF THE POLES.
- 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.
- 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 WORK FOR WHICH TEST PITS HAVE NOT BEEN DUG SHALL BE LOCATED B THE CONTRACTOR TWO WEEKS IN ADVANCE OF CONSTRUCTION OPERATION
- THE CONTRACTOR SHALL NOTIFY THE FOLLOWING UTILITY COMPANIES OR AGENCIES AT LEAST FIVE WORKING DAYS BEFORE STARTING WORK SHOWN THESE PLANS:

BGE (CONTRACTOR SERVICE). .410-313-4900 BUREAU OF UTILITIES. COLONIAL PIPELINE CO. .410-795-1390 .1-800-257-7777 STATE HIGHWAY ADMINISTRATION. .410-531-5533

- TREES AND SHRUBS LOCATED WITHIN THE CONSTRUCTION STRIP ARE NOT TO BE
- 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, 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 HOWARD COUNTY CODE.

### PART II - WATER

- 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" COVER UNLESS
- VALVES ADJACENT TO TEES SHALL BE STRAPPED TO TEES.
- ALL FITTINGS SHALL BE BUTTRESSED OR ANCHORED WITH CONCRETE IN ACCORDANCE WITH THE STANDARD DETAILS UNLESS OTHERWISE PROVIDED
- FIRE HYDRANTS SHALL BE SET TO THE BURY LINE ELEVATIONS SHOWN ON THE DRAWINGS. ALL FIRE HYDRANTS SHALL BE IN ACCORDANCE WITH THE STANDARD DETAILS. THE SOIL AROUND THE FIRE HYDRANT SHALL BE COMPACTED IN ACCORDANCE WITH SECTION 1000 AND 1005 OF THE STANDARD SPECIFICATIONS.
- THE CONTRACTOR SHALL NOT OPERATE ANY WATER MAIN VALVES ON THE EXISTING WATER SYSTEM.

### PART III - SEWER

- . 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 COVERS, STANDARD DETAIL G5.52.
- HOUSE(S) WITH THE SYMBOL "C.N.S." INDICATES THAT CELLAR CANNOT BE SERVED.

SEDIMENT CONTROL MEASURES WILL BE IMPLEMENTED IN ACCORDANCE WITH SECTION 219 OF THE SPECIFICATIONS AND WITH SITE DEVELOPMENT PLAN SDP-08-023.

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

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

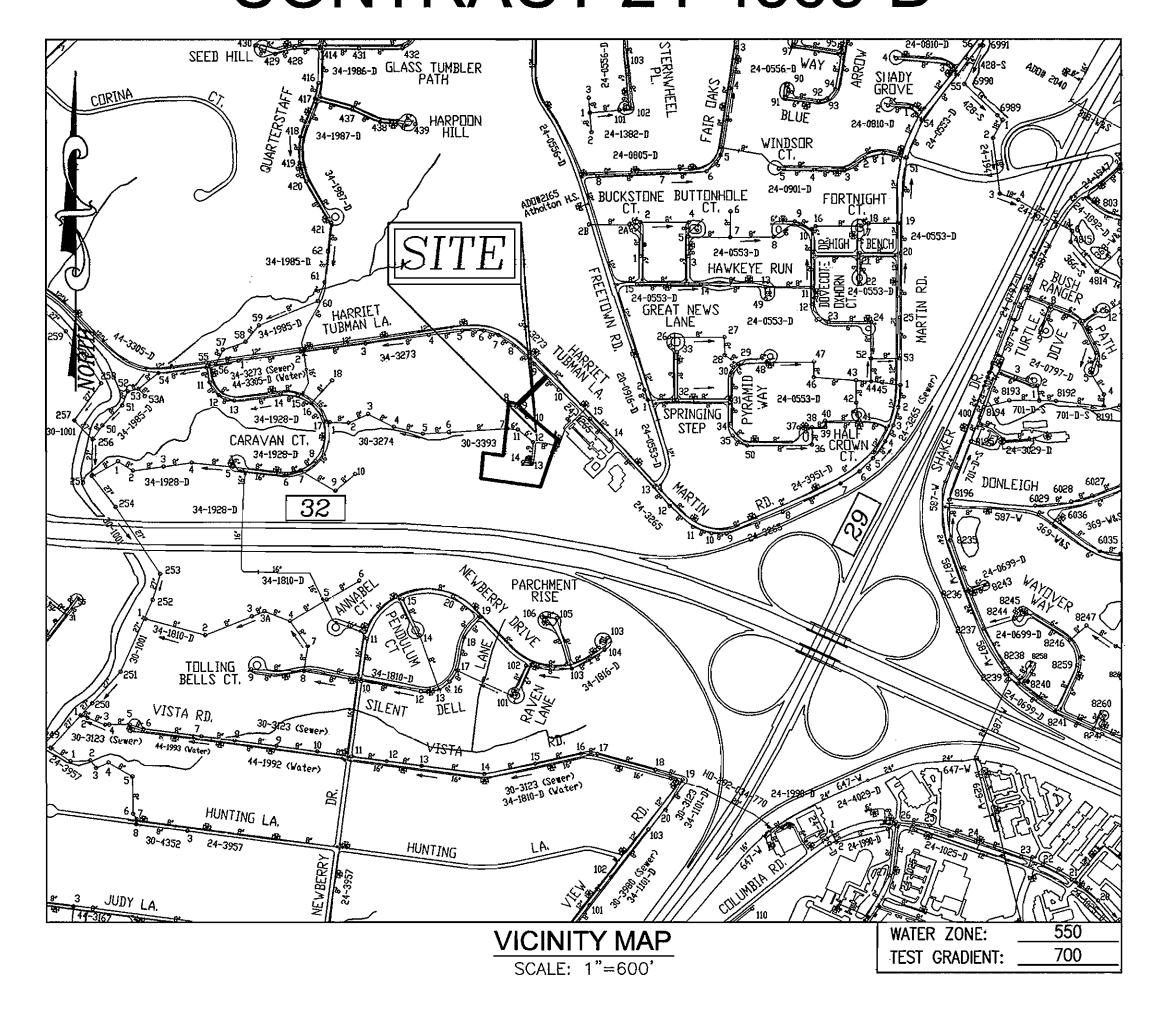


## FINAL WATER AND SEWER PLAN

# B.S. LAND ACQUISITION, LLC AND BETH SHALOM CONGREGATION PROPERTIES

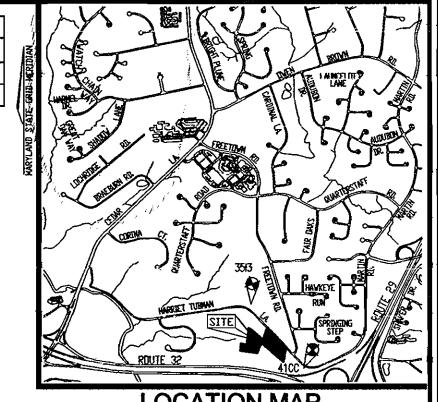
AGE RESTRICTED ADULT HOUSING MULTI-PLEX UNITS 1-5 AND PARKING EXPANSION FOR A RELIGIOUS FACILITY

### HOWARD COUNTY, MARYLAND **CONTRACT 24-4568-D**



TYPE OF BUILDING :	MULTI-PLEX UNITS
NO. OF LOTS/PARCELS :	1
NO. OF SINGLE WATER HOUSE CONNECTIONS :	5
NO. OF TWIN WATER HOUSE CONNECTIONS :	0
NO. OF SEWER HOUSE CONNECTIONS :	5
DRAINAGE AREA:	LITTLE PATUXENT WRP

BENCHMARKS				
NO.	NORTHING	EASTING	ELEVATION	
3513	553573.708	1346098.13	415.39	
41CC	552494.272	1347062.44	400.00	
	ONCRETE MONUMENT		IE NORTH SIDE	



**LOCATION MAP** 

ADC MAP COORDINATE: 15-D1

QUANTITIES				
NAME OF UTILITY CONT	TRACTOR:			
SURVEY AND DRAFTING	DIVISION AS-BUILT DAT	E :		
	QUANTITIES	AS-BUILT		
ITEMS	ESTIMATED	QUANTITIES	TYPE	MANUFACTURER/SUPPLIER
	•	WATER		
12"x8" TAPPING SLEEVE	1 EA			
8" WATER	666 LF			
8" VALVE	2 EA			
6" WATER	41 LF			
4" WHC	50 LF			
8" 1/16 HB	2 EA			
8* 1/8 HB	5 EA			
8" X 8" TEE	1 EA			
8" CAP AND BUTTRESS	2 EA			
8" X 6" TEE	2 EA			
6" VALVE	2 EA			
6" FIRE HYDRANT	2 EA			
8" X 4" TEE	5 EA			
4" VALVE	5 EA			
4" CAP AND BUTTRESS	5 EA			
	<u> </u>	SEWER		
8" PVC SEWER	12 LF			

LEGEND:	
	EXISTING CURB AND GUTTER PROPOSED CURB AND GUTTER EXISTING UTILITY POLE EXISTING LIGHT POLE
<u> </u>	EXISTING MAILBOX  EXISTING SIGN
	EXISTING CLEANOUT EXISTING STORM DRAIN EXISTING STORM DRAIN INLET TREELINE
xx	EXISTING FENCE PROPERTY LINE RIGHT-OF-WAY LINE
⑤ s	EXISTING SANITARY MANHOLE  EXISTING SANITARY LINE  EXISTING FIRE HYDRANT
選	EXISTING WATER LINE PROPOSED PRIVATE WATER PROPOSED PRIVATE SEWER PROPOSED PUBLIC WATER PROPOSED FIRE HYDRANT PROPOSED PUBLIC SEWER

**OWNER (PARCEL 256)** TEMPLE BETH SHALOM OF HOWARD COUNT 8070 HARRIET TUBMAN LANE SIMPSONVILLE, MD. 21150

> OWNER/DEVELOPER (PARCEL 153) BS LAND ACQUISTION 5100 DORSEY HALL DRIVE ELLICOTT CITY, MD. 21042 C/O RICHARD TALKIN (410) 964-0300

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

OF MARY	PROFESS I HEREBY WERE PRE THAT I AM ENGINEER OF MARYL EXPIRATION
2/2/09	DES:
<b>! 3</b>	DRN:
	CHK:
Det (S. Diese)	DATE:

MARY	PROFESSION	NAL CERTIFICATE ERTIFY THAT THESE DOCUMENTS				
No.	WERE PREPA	ETIFY THAT THESE DOCUMENTS RED OR APPROVED BY ME, AND DULY LICENSED PROFESSIONAL UNDER THE LAWS OF THE STATE				Ì
ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 16193 EXPIRATION DATE: 09-27-2010						
4/3/07	DES:	DZ				1
40	DRN:	DZ				
	CHK:	RHV				
EL DE No. 16103	DATE:	APRIL 9, 2009	NO.	REVISION	DATE	

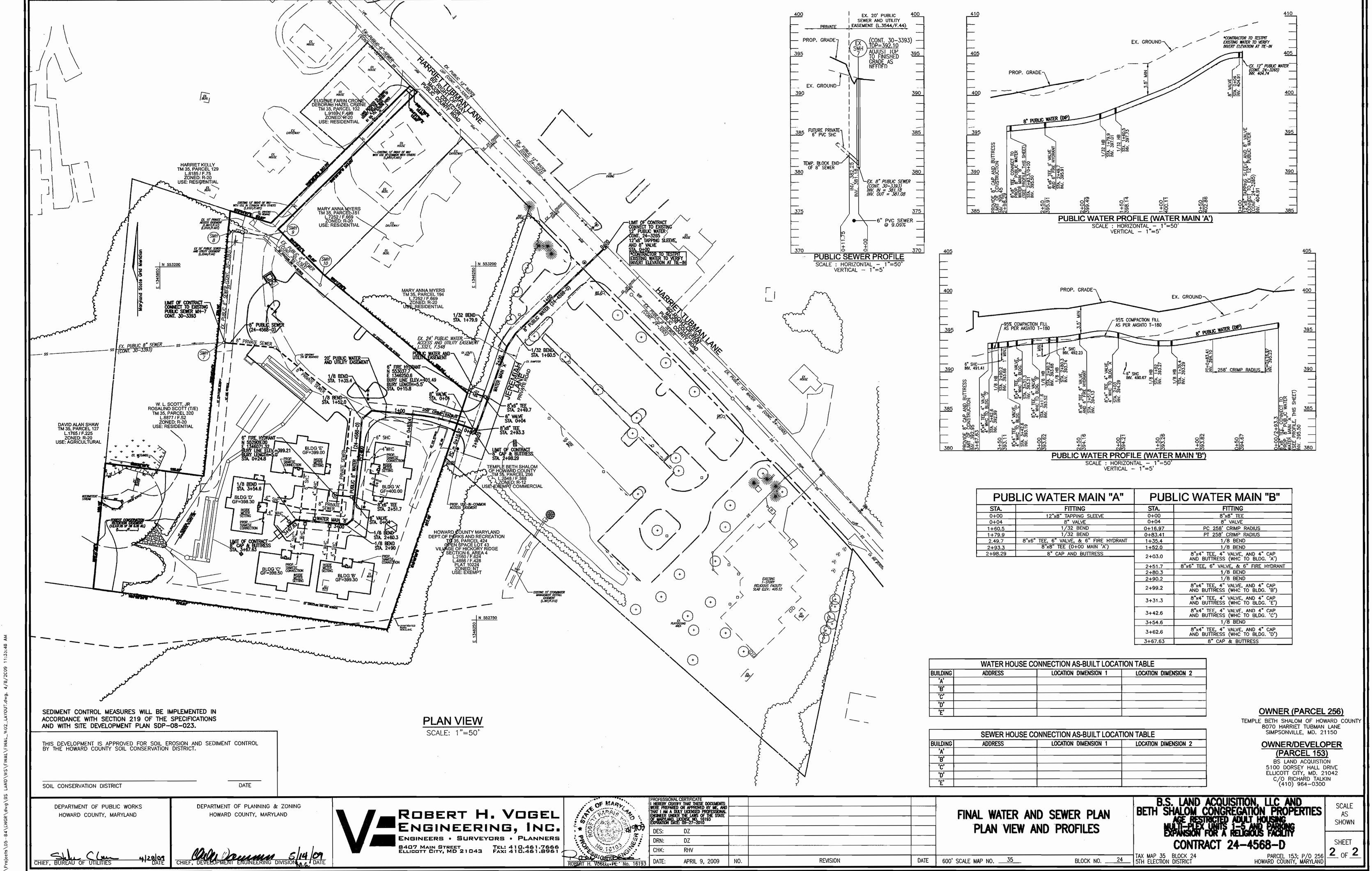
600' SCALE MAP NO. \_\_\_35\_\_

**CONTRACT 24-4568-D** BLOCK NO. 24 TAX MAP 35 BLOCK 24 5TH ELECTION DISTRICT

PARCEL 153; P/O 256 -HOWARD COUNTY, MARYLAND

SDP-08-083

SHOWN



SDP-08-083