GENERAL NOTES

1. APPROXIMATE LOCATIONS 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 EXISTING TOPOGRAPHY SHOWN HEREON IS TAKEN FROM AN AERIAL TOPOGRAPHIC SURVEY PREPARED BY POTOMAC AERIAL SURVEYS; DATED MARCH, 1998.

- THE COORDINATES SHOWN ON THE DRAWINGS ARE BASED ON MARYLAND STATE REFERENCE SYSTEM NAO '83/'91 AS PROJECTED BY HOWARD COUNTY GEODETIC CONTROL STATIONS 34CD AND 34FD. PROVIDED ON DRAWINGS ARE: GEODÉTIC SURVEY CONTROL 34CD (N 561,461.630 E 1,323,850.413)
- BRASS DISC SET ON TOP OF A CONCRETE MONUMENT. GEODETIC SURVEY CONTROL 34FD (N 560,162.580 E 1,325,180.368) BRASS DISC SET ON TOP OF A CONCRETE MONUMENT.
- 4. ALL PIPE ELEVATIONS SHOWN ARE INVERT ELEVATIONS UNLESS OTHERWISE NOTED.
- 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 CONTACTED 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 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 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 LOCATIONS OF THE TEST PITS. 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 OPERATION AT HIS OWN EXPENSE.
- 8. THE CONTRACTOR SHALL NOTIFY THE FOLLOWING UTILITY COMPANIES OR AGENCIES AT LEAST FIVE WORKING DAYS BEFORE STARTING WORK SHOWN ON THESE PLANS BGE (CONTRUCTION SERVICES). . .410-637-8713 BGE (EMERGENCY) BUREAU OF UTILITIES. COLONIAL PIPELINE CO. . .410-795-1390 MISS UTILITY. STATE HIGHWAY ADMINISTRATION.
- 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 BIO 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 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 HOWARD COUNTY CODE.

PART II - WATER

- 1. ALL WATER MAINS TO BE PVC DIP UNLESS OTHERWISE NOTED.
- 2. TOPS OF ALL WATER MAINS TO HAVE A MINIMUM OF 3'-6" COVER UNLESS VITEXWIDE NUILU.
- 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 RESTRAINED AND BUTTRESSED WITH CONCRETE IN ACCORDANCE WITH THE STANDARD DETAIL. 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
- 7. FOR PVC WATER MAINS, ALL RECORDS FOR THE QUALITY CONTROL AND QUALIFICATION TEST REQUIREMENTS NOTED IN SECTION 5.1 OF THE AWWA STANDARD C900 FOR PVC PRESSURE PIPE SHALL BE SUBMITTED WITH THE PIPE MATERIAL CERTIFICATIONS OR SHOP DRAWINGS PRIOR TO APPROVAL OF THE MATERIAL FOR USE. THE TEST RECORDS SHALL BE FOR THE PIPE TO BE INSTALLED UNDER THIS CONTRACT. ALL PVC PIPE SHALL CONTAIN MARKINGS TO ALLOW CROSS REFERENCING OF THE PIPE SUPPLIED TO THE REST
- 8. UNLESS OTHERWISE NOTED ON THE PLANS OR IN THE SPECIFICATIONS, SEVENTEEN (17) POUND SACRIFICIAL ANODES SHALL BE INSTALLED ON ALL VALVES AND METALLIC FITTINGS USED WITH PVC WATER MAINS IN ACCORDANCE WITH VOLUME IV, STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION. MAGNESIUM ANODES SHALL BE INSTALLED ON ALL VALVES AND DUCTILE IRON FITTINGS INCLUDING RESTRAINTS AND HARNESSES. ZINC ANODES SHALL BE INSTALLED ON ALL STAINLESS STEEL FITTINGS AND SADDLES USED WITH PVC MAINS. ALL "TEES" USED WITH PVC MAINS SHALL BE DUCTILE IRON.

PART III - SEWER

- ALL SEWER MAINS SHALL BE D.I.P. OR P.V.C UNLESS OTHERWISE NOTED.
- ALL MANHOLES SHALL BE 4'-0" INSIDE DIAMETER UNLESS OTHERWISE NOTED. FORCE MAINS SHALL BE D.I.P. ONLY.
 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 FRAMES 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 THE CELLAR CANNOT BE SERVED.

SEDIMENT CONTROL MEASURES WILL BE IMPLEMENTED IN ACCORDANCE WITH SECTION 308 OF THE SPECIFICATIONS AND WITH SITE DEVELOPMENT PLAN SDP-16-021

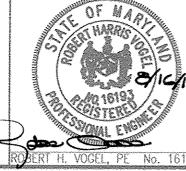
THIS DEVELOPMENT IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL

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

Str Can stall

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



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FINAL WATER AND SEWER CONSTRUCTION PLAN CONTRACT 24-4956-D

600' SCALE MAP NO. 34

TEN OAKS ROAD AND MD ROUTE 108 ZONED: B-1/B-2

TAX MAP 34 GRID 12

5TH ELECTION DISTRICT

ANTWERPEN PROPERTIES - PARCEL D

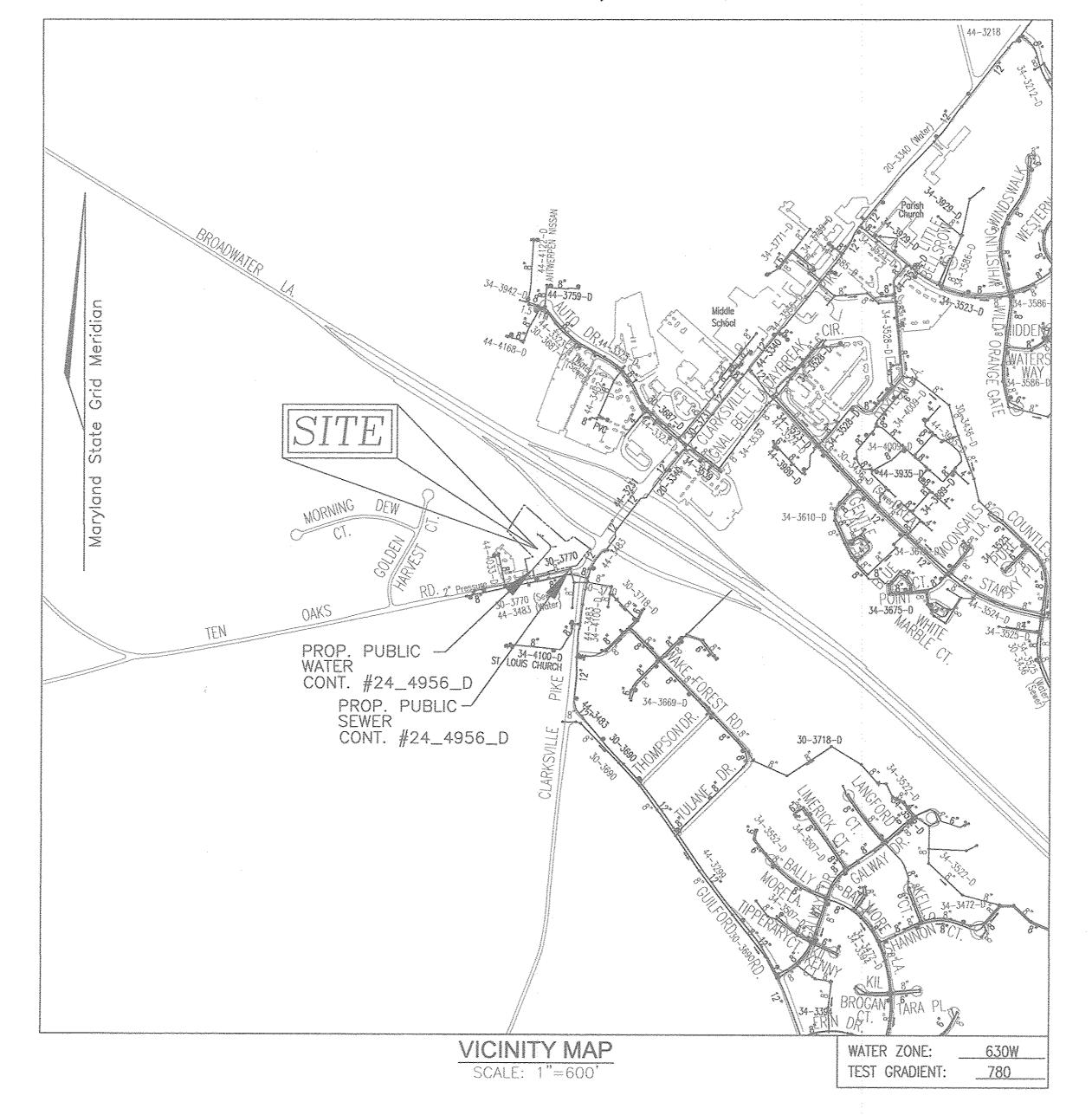
SCALE SHOWN SHEET PARCELS 35, 161 & 361 1 OF 2 HOWARD COUNTY, MARYLAND

DEVELOPER/OWNER

JA TEN OAKS LLC C/O ANTWERPEN AUTOMOTIVE 6440 BALTIMORE NATIONAL PIKE BALTIMORE MD 21228 410-938-5000

FINAL WATER AND SEWER PLAN ANTWERPEN PROPERTIES

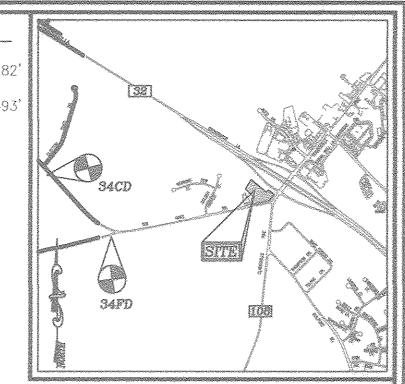
TEN OAKS ROAD AND MD ROUTE 108 RETAIL, FAST FOOD AND AUTOMOTIVE MAINTENANCE L.15600 / F.254, L.15633 / F.280, L.15676 / F.277 CONTRACT 24-4956-D HOWARD COUNTY, MARYLAND



Type of Building:	RETAIL, FAST FOOD AND AUTOMOTIVE MAINTENANCE		
No. of Lots/Parcels :	3		
No. of single Water House Connections :			
No. of Sewer House Connections :	the speciment and the second section as the section		
Sewer Shed :	MIDDLE PATUXENT RIVER		
Treatment Plant :	MIDDLE PATUXENT RIVER		

BENCHMARKS

HOWARD COUNTY BENCHMARK 34CD N 561,461.630 E 1,323,850.413 ELEV.: 491.282° HOWARD COUNTY BENCHMARK 34FD N 560,162.580 E 1,325,180.368 ELEV.: 437.493'



VICINITY MAP SCALE: 1"=2000" ADC MAP COORDINATES: 31/01

LEGEND	
EXISTING WATER MAIN	W
PROPOSED WATER MAIN	
FIRE HYDRANT	
PROPOSED VALVE	abla
PROPOSED TEE	
PROPOSED STORM DRAIN	<u></u>
EXISTING STORM DRAIN	and a residence and the first include the second of the se
EXISTING SEWER	entre antico contraction of the
SEWER MANHOLE	\circ
PRIVATE WATER HOUSE CONNECTION	
PROPOSED PUBLIC SEWER MA	IN Example 1
PRIVATE SEWER HOUSE CONNECTION	SHAPE SHAPE SHAPE SHAPE SHAPES SHAPES
PROPOSED SIGN	* Company of the Comp

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		QUANTI	TES			
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	QUANTITIES AS-BUILT					
TEMS	ESTMATED	QUANTITIES	TYPE	MANUFACTURER/SUPPLER		
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8" WATER (DIP)	442.86 ∪	432 LF	DIPCLASS 54	US PIPE / LB WATER		
6" WATER (DIP)	13 U	534 <i>F</i>	and a contract the contract of	US PIPE / LB WATER		
8" X 6" TEE	4.6	4	C153	TYLER UNION / LO WATER		
8° VALVE	2 .6A	2	RW GATE	TYLER UNION / LB WATER		
6" VALVE	4 FA	4	RWGATE	TYLER UNION ILB WATER		
6" FIRE HYDRANI		2	1884	AMERICAN FLOW CONTROL / LB WATER		
8" CAP	2 🖎	2	MJ	TYLER UNION I LIS WATER		
6° CAP	2 EA	2	MΣ	TYLER UNION ILB WATER		
8"x8"TEE	1 EA		10153	TYLER UNION I LB WATER		
ANDARD 4' PRECAST MANHOLE	1 EA		PRECAST	ATLANTIC CONCRETE! LE WATER		
8" PVC SEWER	40 1		503.35	NORTH AMERICAN / LB WATER		
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PROPOSED LIGHT

BY: DFI DATE: 8-29-17

BLOCK NO. <u>12</u>

