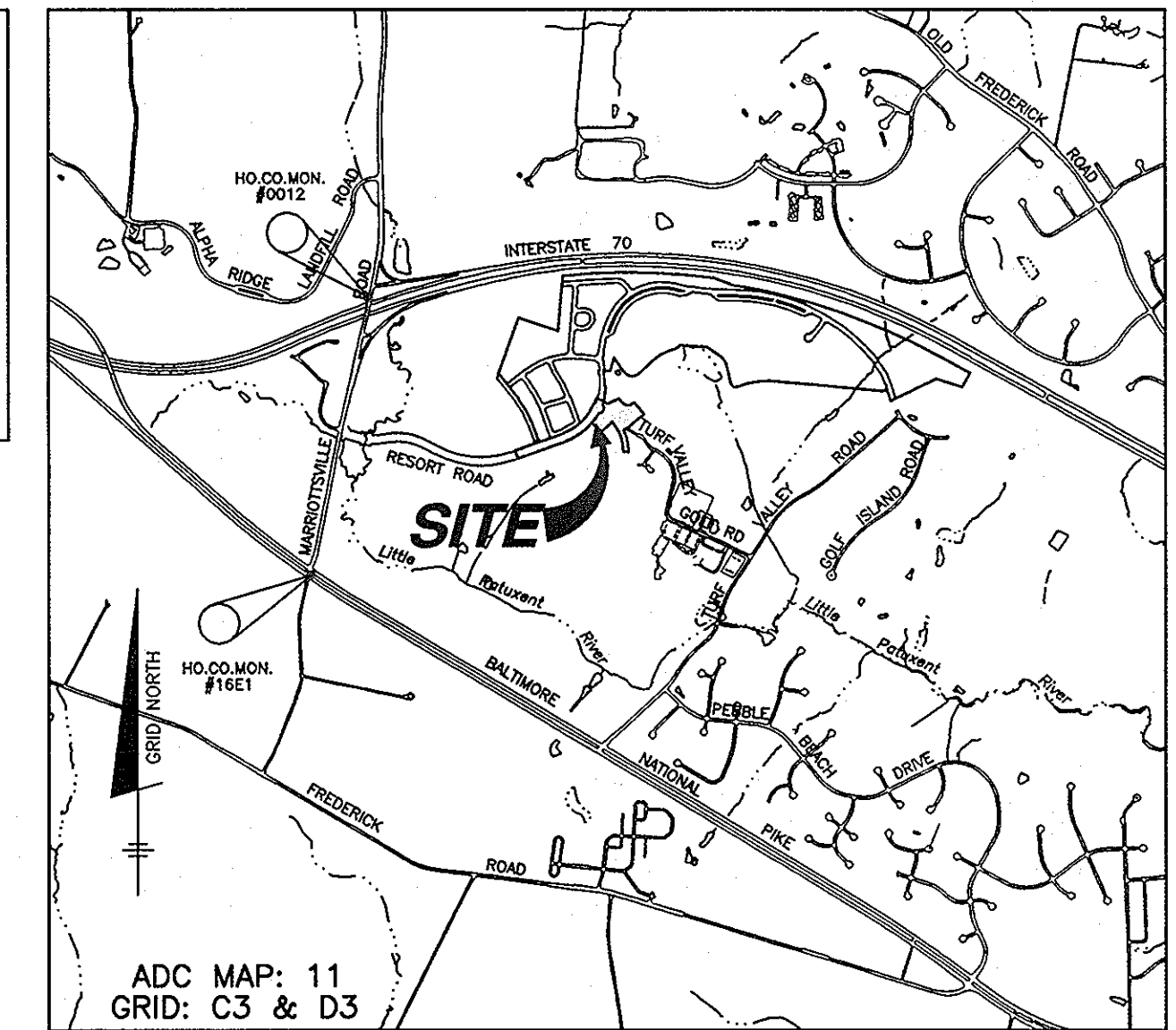


# VILLAGES AT TURF VALLEY

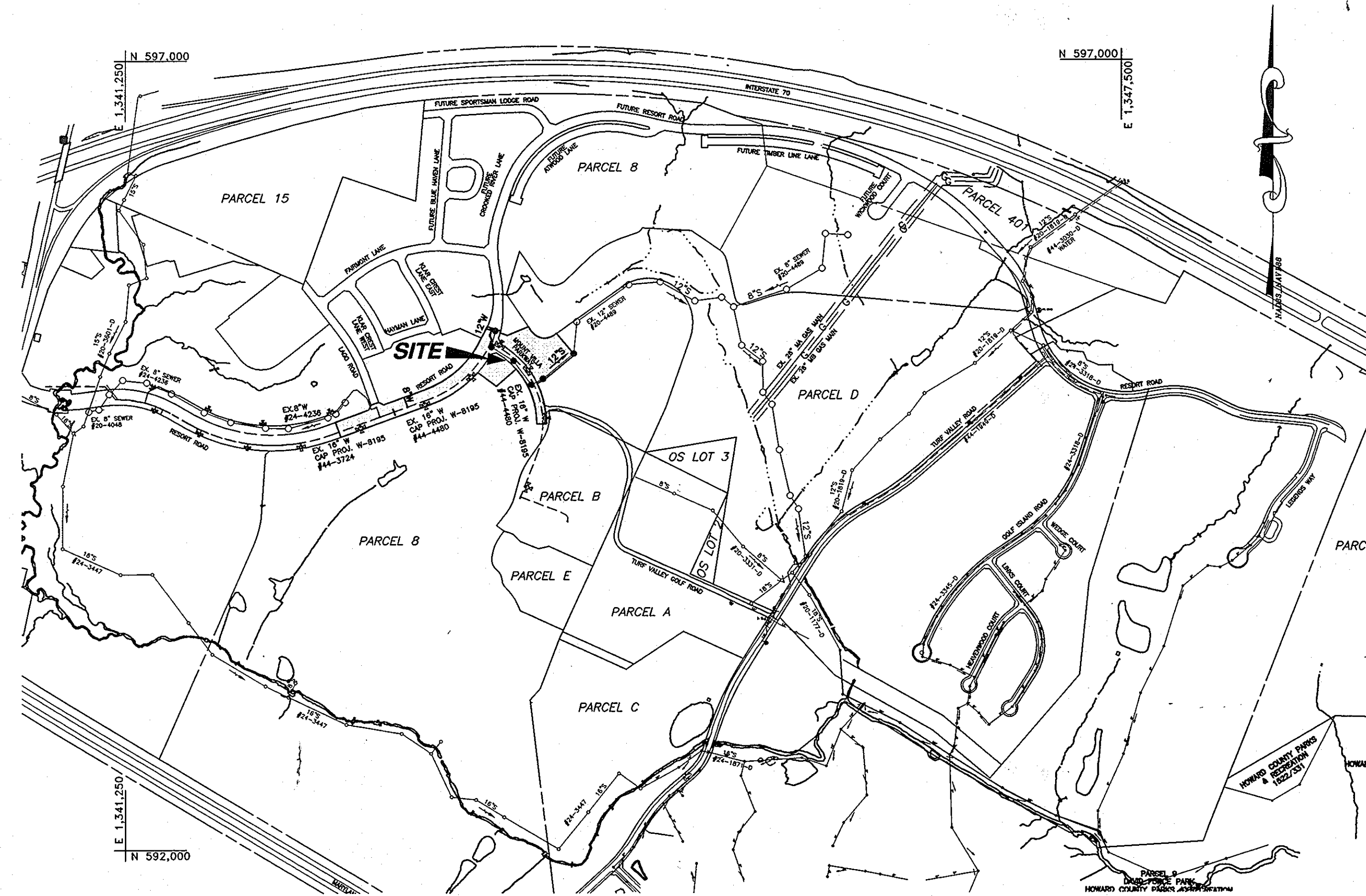
## PHASE 1 SECTION 1

### CONTRACT NO. 24-4645-D

**BENCH MARKS**  
 HORIZONTAL: MARYLAND NAD83  
 VERTICAL: NAVD88  
 HO. CO. #0012  
 STAMPED DISC SET ON TOP OF 3" DEEP  
 CONCRETE MONUMENT AT NORTHWEST CORNER  
 OF MARRIOTTVILLE ROAD AND I-70 10.6' FROM  
 3"-OUT IN TOP OF QUADRANT POST.  
 N 596502.760 E 1340864.370  
 ELEV. 486.298'  
 HO. CO. #16E1  
 STAMPED DISC SET ON TOP OF 3" DEEP  
 CONCRETE MONUMENT AT MEDIAN OF ROUTE 40  
 AT INTERSECTION WITH MARRIOTTVILLE ROAD 8.6'  
 FROM E/P OF EAST BOUND LANES.  
 N 593250.960 E 1340192.700  
 ELEV. 463.981'



VICINITY MAP  
 SCALE: 1" = 2000'



**QUANTITIES**

ITEMS	QUANTITIES ESTIMATED	AS-BUILT		
		QUANTITIES	TYPE	MANUF./SUPPLIER
8" D.I.P. WATER	65 LF			
12" D.I.P. WATER	100 LF			
16"x8" TS&V	1 EA.			
16"x12" REDUCER	1 EA.			
8" PLUG AND BUTTRESS	1 EA.			
12" PLUG AND BUTTRESS	1 EA.			
8" DIP SEWER	50 LF			
12" P.V.C. SEWER	979 LF			
MANHOLES	6 EA.			
VERT FEET OF MANHOLES	68 V.F.			
NAME OF UTILITY CONTRACTOR:				
SURVEY AND DRAFTING DIVISION AS-BUILT DATE:				

(FOR COUNTY USE ONLY) WATER AND SEWER COUNTY CODE	TYPE OF BUILDING: _____ N/A
TEST GRADIENT: 780	NO. OF LOTS/PARCELS/UNITS: _____ 0
WATER ZONE: 630W	NUMBER OF SHC'S: _____ 0
	NUMBER OF WHC'S: _____ 0
	AREA OF COMMERCIAL LOT/PARCEL: _____ N/A
	SEWER SHED: _____ LITTLE PATUXENT WRP
	PUMPING STATION: _____ ROUTE 108 PS

LOCATION MAP  
 SCALE: 1" = 600'

**NOTE:**

CAPITAL PROJECT W-8195, CONTRACT 44-4480 (THE 16" WATER MAIN ALONG RESORT ROAD AND MOUNT VILLA PARKWAY) HAS NOT BEEN CONSTRUCTED AT THIS TIME. THIS MAIN MUST BE COMPLETE PRIOR TO CONSTRUCTION OF THE WATER MAIN UNDER THIS CONTRACT (24-4645-D).

SHEET INDEX	
NO.	DESCRIPTION
1	TITLE SHEET PUBLIC WATER & SEWER MAINS
2	PLAN VIEW OF PUBLIC WATER & SEWER MAINS
3	PROFILES OF PUBLIC WATER & SEWER MAINS

**GENERAL NOTES**

- PART I - GENERAL**
- 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 CONTRACTOR'S EXPENSE.
  - TOPOGRAPHIC FIELD SURVEYS WERE PERFORMED IN FEBRUARY, 2003 BY BENCHMARK ENGINEERING, INC.
  - HORIZONTAL AND VERTICAL SURVEY CONTROLS:
- THE COORDINATES SHOWN ON THE DRAWINGS ARE BASED ON MARYLAND STATE REFERENCE SYSTEM NAD '83/91 AS PROJECTED BY HOWARD COUNTY GEODETIC CONTROL STATIONS NO. 0012 AND NO. 16E1.
- ALL VERTICAL CONTROLS ARE BASED ON NAVD '88. VERTICAL CONTROLS PROVIDED ON THE DRAWINGS ARE HOWARD COUNTY GEODETIC CONTROL STATIONS NO. 0012 AND NO. 16E1.
- ALL PIPE ELEVATIONS SHOWN ARE INVERT ELEVATIONS UNLESS OTHERWISE NOTED ON THE PLANS.
  - 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 THE DRAWINGS. IN THE EVENT THE CONTRACTOR'S WORK REQUIRES THE BRACING OF ADDITIONAL POLES, ANY COST INCURRED BY THE OWNER FOR THE 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.
  - FOR DETAILS NOT SHOWN ON THE DRAWING, 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.
  - 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 OPERATIONS AT HIS OWN EXPENSE.
  - THE CONTRACTOR SHALL NOTIFY THE FOLLOWING UTILITY COMPANIES OR AGENCIES AT LEAST FIVE (5) WORKING DAYS BEFORE STARTING WORK SHOWN ON THESE PLANS:
- |                                  |                             |
|----------------------------------|-----------------------------|
| AT&T                             | 1-800-252-1133              |
| BGE (CONSTRUCTION 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     | 410-531-5533                |
| VERIZON                          | 1-800-743-0033/410-254-9210 |
- 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.
  - 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 CONSTRUCTION OF THE MAIN.
  - 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 FOR LAYING WATER/SEWER MAINS OR HOUSE CONNECTIONS. THE APPROVAL OF THESE DRAWINGS WILL CONSTITUTE COMPLIANCE WITH DPW REQUIREMENTS PER SECTION 18.114(c) OF THE HOWARD COUNTY CODE.

**PART II - WATER**

- ALL WATER MAINS SHALL BE D.I.P. CLASS 54 UNLESS OTHERWISE NOTED.
- TOPS OF ALL WATER MAINS SHALL HAVE A MINIMUM OF 3'-6" OF COVER UNLESS OTHERWISE NOTED.
- VALVES ADJACENT TO TEES SHALL BE STRAPPED TO TEES.
- ALL FITTINGS SHALL BE BUTTRESSED OR ANCHORED WITH CONCRETE IN ACCORDANCE WITH STANDARD DETAILS UNLESS OTHERWISE PROVIDED FOR ON THE DRAWINGS.
- 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 SECTION 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.
- 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 05.52.
- HOUSE(S) WITH THE SYMBOL "C.N.S." INDICATES THAT CELLAR CANNOT BE SERVED.

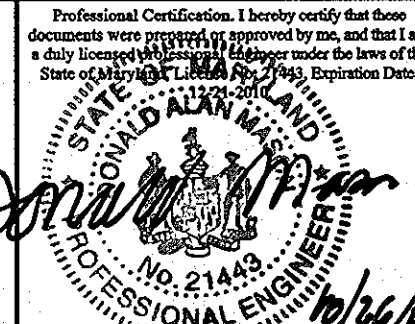
THIS PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.

*John R. Roberts* 4/10/09  
 HOWARD SOIL CONSERVATION DISTRICT DATE

SEDIMENT CONTROL MEASURES FOR THIS CONTRACT WILL BE IMPLEMENTED IN ACCORDANCE WITH SECTION 219 OF THE HOWARD COUNTY STANDARD SPECIFICATIONS AND AS PER F-10-026.

OWNER/DEVELOPER:  
 MANGIONE ENTERPRISES OF TURF VALLEY, LP  
 1205 YORK ROAD, PENTHOUSE  
 LUTHERVILLE, MARYLAND 21093  
 410-825-8400

**BENCHMARK**  
 ENGINEERS & LAND SURVEYORS & PLANNERS  
**ENGINEERING, INC.**  
 8480 BALTIMORE NATIONAL PIKE A SUITE 418  
 ELLICOTT CITY, MARYLAND 21043  
 PHONE: 410-465-8105 FAX: 410-465-8644



DESIGN: DBT				
DRAFT: DBT				
CHK: DAM				
DATE: 10/2009	BY	NO.	REVISIONS	DATE

TITLE SHEET  
 PUBLIC WATER & SEWER MAINS

600 SCALE MAP NO. 16 BLOCK: 11 200 SCALE MAP NO. 146

VILLAGES AT TURF VALLEY  
 PHASE 1 SECTION 1  
 OPEN SPACE LOTS 68 thru 69,  
 CONTRACT NO. 24-4645-D

TAX MAP: 16 - BLOCK: 17 - PARCEL: P/O 8 - ZONED: PGCC - ELECTION DISTRICT: 3

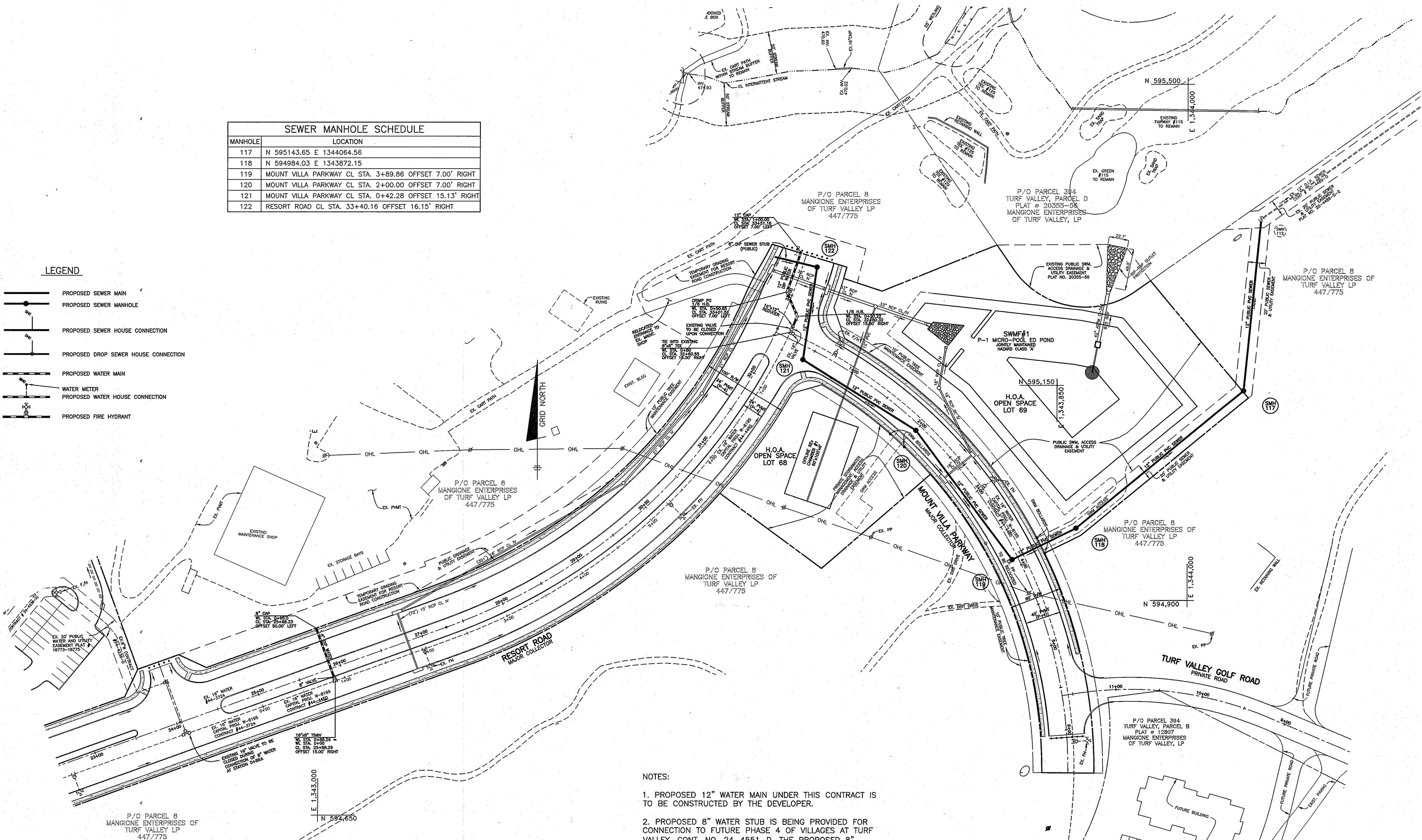
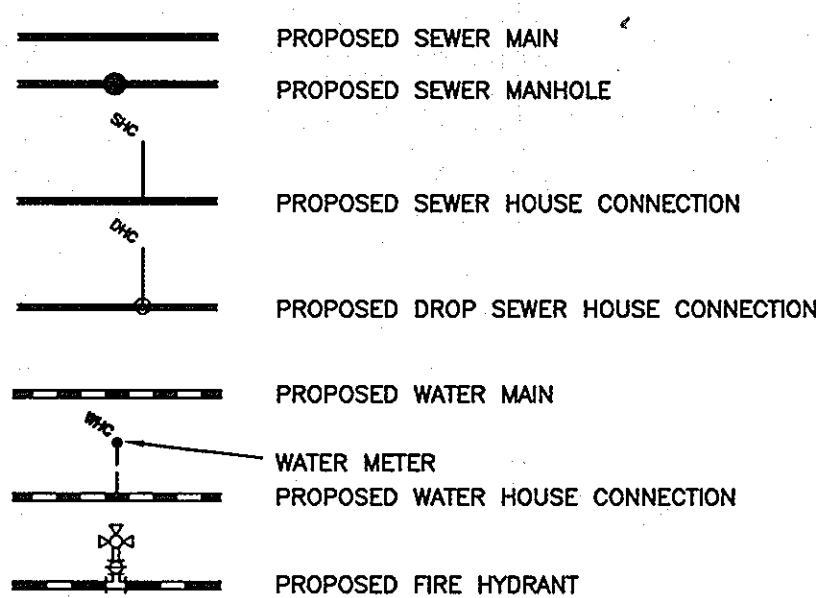
SCALE:  
 AS SHOWN

SHEET NO.  
 1 OF 3



SEWER MANHOLE SCHEDULE	
MANHOLE	LOCATION
117	N 595143.65 E 1344064.56
118	N 594984.03 E 1343872.15
119	MOUNT VILLA PARKWAY CL STA. 3+89.86 OFFSET 7.00' RIGHT
120	MOUNT VILLA PARKWAY CL STA. 2+00.00 OFFSET 7.00' RIGHT
121	MOUNT VILLA PARKWAY CL STA. 0+42.28 OFFSET 15.13' RIGHT
122	RESORT ROAD CL STA. 33+40.16 OFFSET 16.15' RIGHT

**LEGEND**



**NOTES:**

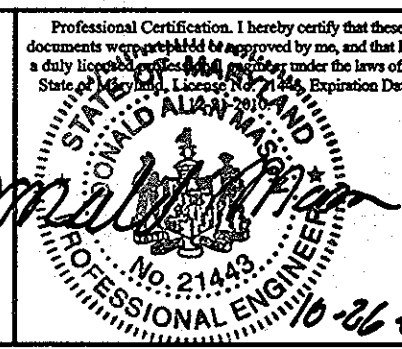
1. PROPOSED 12" WATER MAIN UNDER THIS CONTRACT IS TO BE CONSTRUCTED BY THE DEVELOPER.
2. PROPOSED 8" WATER STUB IS BEING PROVIDED FOR CONNECTION TO FUTURE PHASE 4 OF VILLAGES AT TURF VALLEY, CONT. NO. 24-4551-D. THE PROPOSED 8" SEWER STUB IS BEING PROVIDED FOR CONNECTION TO FUTURE PHASE 1 SECTION 2 OF VILLAGES AT TURF VALLEY, CONT. NO. 24-4522-D.

**OWNER/DEVELOPER:**  
 MANGIONE ENTERPRISES OF TURF VALLEY, LP  
 1205 YORK ROAD, PENTHOUSE  
 LUTHERVILLE, MARYLAND 21093  
 410-825-8400

DEPARTMENT OF PUBLIC WORKS  
 HOWARD COUNTY, MARYLAND

DEPARTMENT OF PLANNING AND ZONING  
 HOWARD COUNTY, MARYLAND

**BENCHMARK**  
 ENGINEERS & LAND SURVEYORS & PLANNERS  
**ENGINEERING, INC.**



DESIGN:	DBT				
DRAFT:	DBT				
CHK:	DAM				
DATE:	10/2009	BY	NO.	REVISIONS	DATE

**PLAN VIEW**  
**PUBLIC WATER & SEWER MAINS**

**VILLAGES AT TURF VALLEY**  
 PHASE 1 SECTION 1  
 OPEN SPACE LOTS 68 thru 69

SCALE:  
 AS SHOWN

SHEET NO.  
 2 OF 3

TAX MAP: 16 - BLOCK: 17 - PARCEL: P/O 8 - ZONED: PGCC - ELECTION DISTRICT: 3

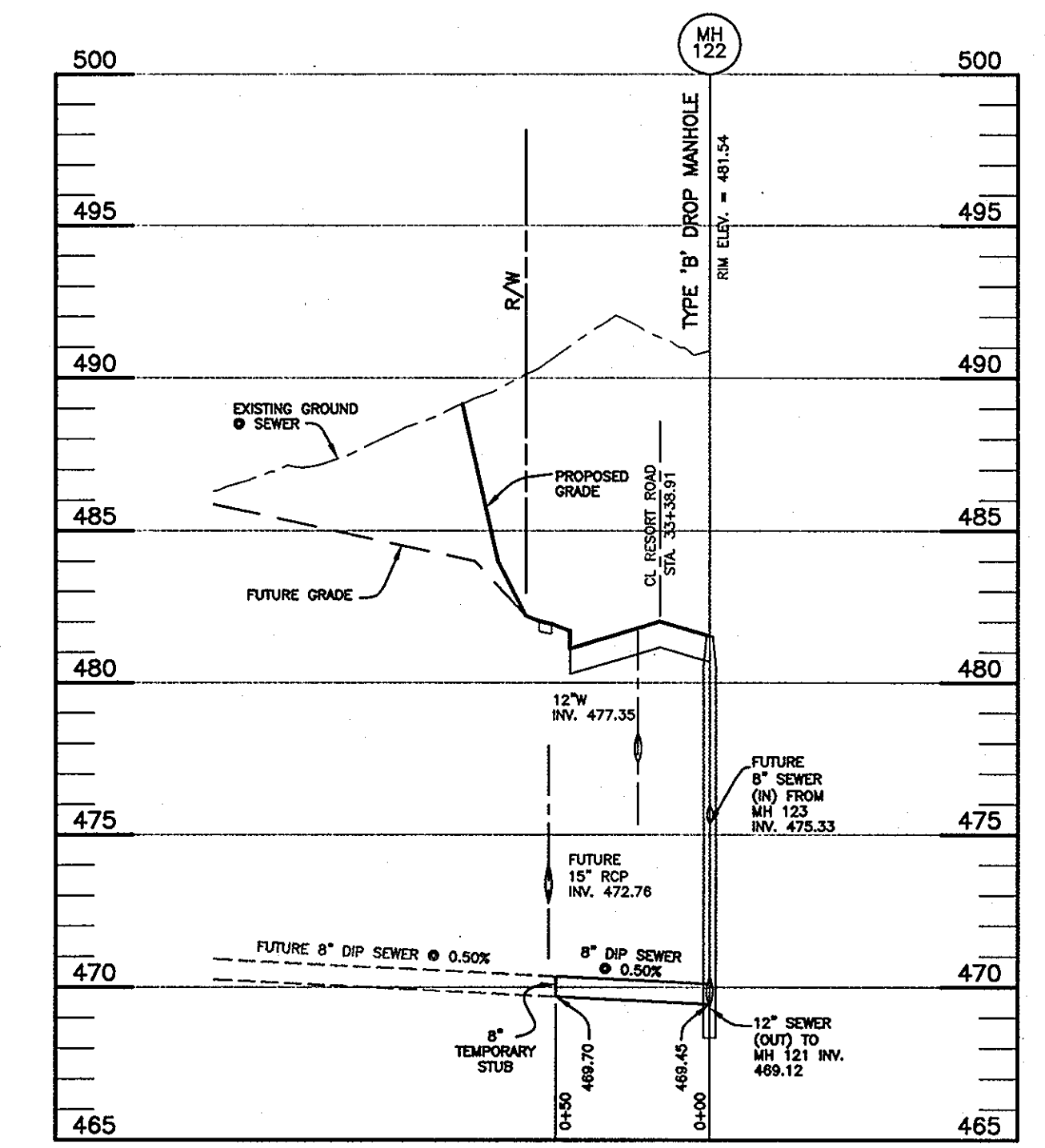
**CONTRACT NO. 24-4645-D**

Stalin C. Chen  
 CHIEF, BUREAU OF UTILITIES

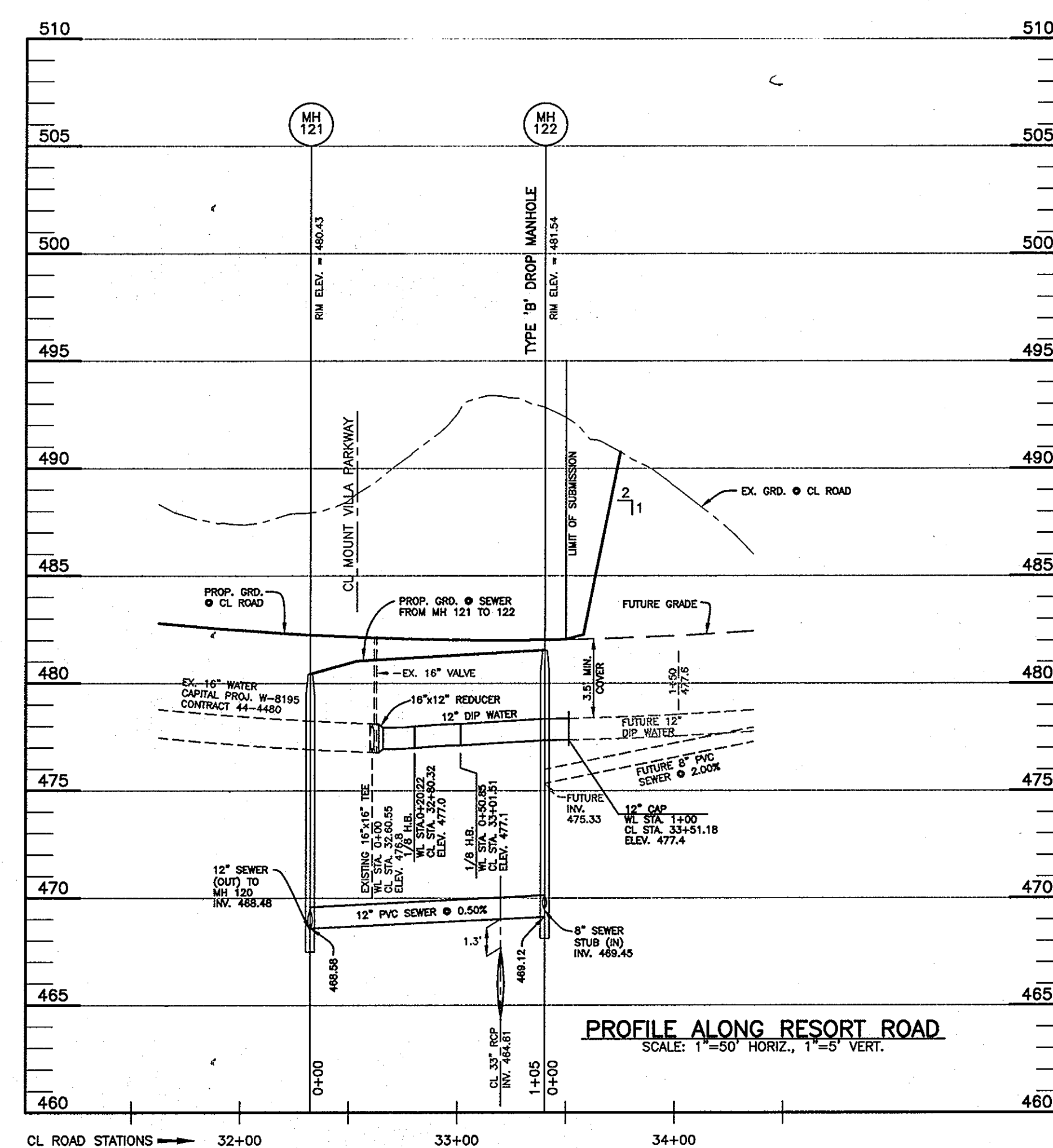
DATE: 11/17/09  
 DATE: 11/17/09

8480 BALTIMORE NATIONAL PIKE SUITE 418  
 ELLICOTT CITY, MARYLAND 21043  
 PHONE: 410-465-6105 FAX: 410-465-6644

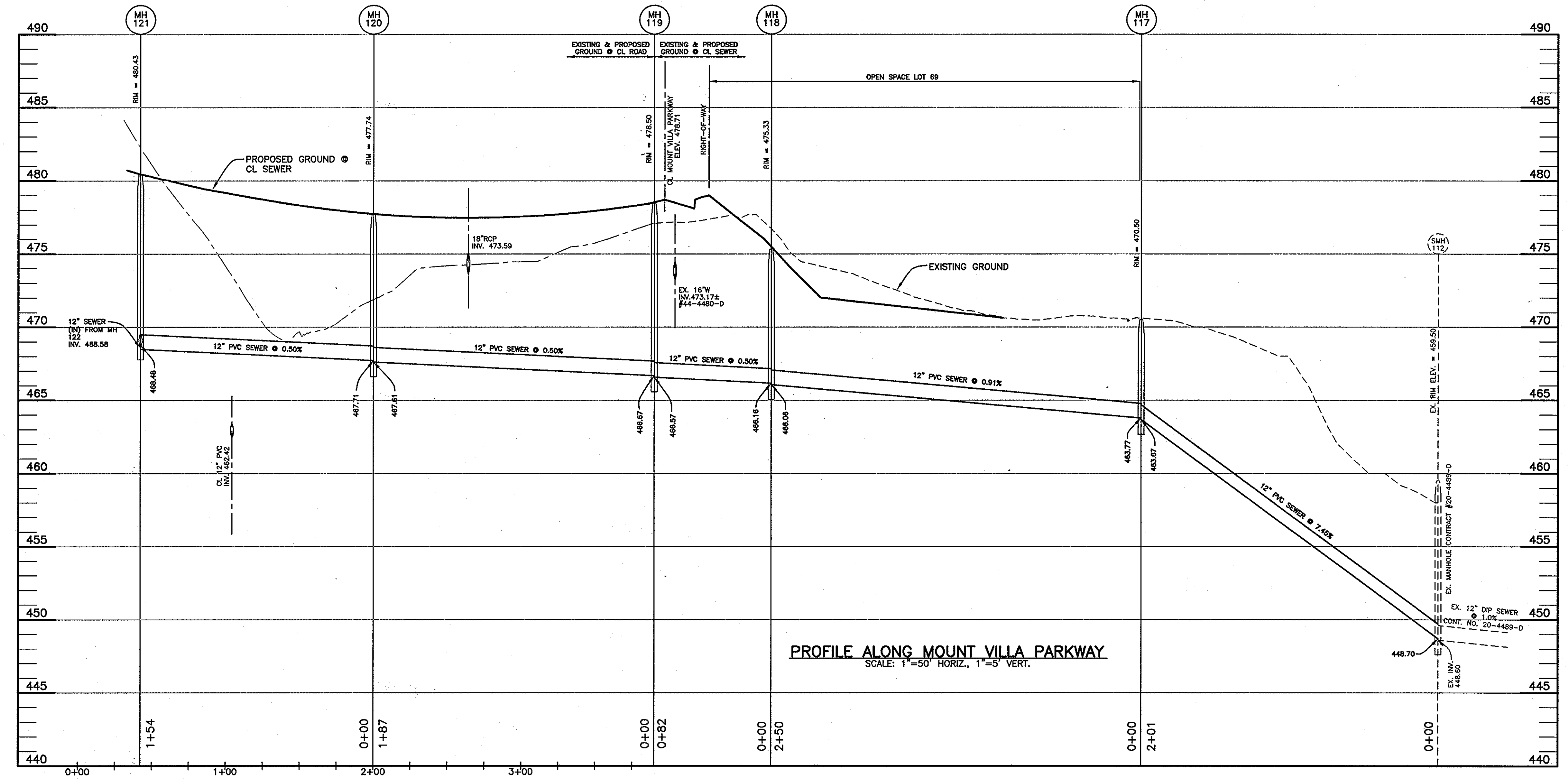
600 SCALE MAP NO. 16 BLOCK: 11 200 SCALE MAP NO. 146



PROFILE OF 8" SEWER STUB  
SCALE: 1"=50' HORIZ., 1"=5' VERT.



PROFILE ALONG RESORT ROAD  
SCALE: 1"=50' HORIZ., 1"=5' VERT.



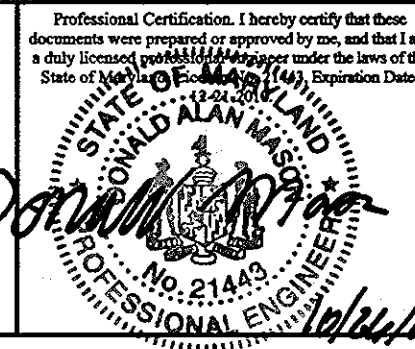
PROFILE ALONG MOUNT VILLA PARKWAY  
SCALE: 1"=50' HORIZ., 1"=5' VERT.

OWNER/DEVELOPER:  
MANGIONE ENTERPRISES OF TURF VALLEY, LP  
1205 YORK ROAD, PENTHOUSE  
LUTHERVILLE, MARYLAND 21093  
410-825-8400

DEPARTMENT OF PUBLIC WORKS  
HOWARD COUNTY, MARYLAND  
*John C. Green*  
CHIEF, BUREAU OF UTILITIES  
DATE: 11/16/09

DEPARTMENT OF PLANNING AND ZONING  
HOWARD COUNTY, MARYLAND  
*John D. ...*  
CHIEF, DEVELOPMENT ENGINEERING DIVISION  
DATE: 11/17/09

**BENCHMARK**  
ENGINEERS & LAND SURVEYORS & PLANNERS  
**ENGINEERING, INC.**  
8480 BALTIMORE NATIONAL PIKE & SUITE 418  
ELLCOTT CITY, MARYLAND 211043  
PHONE: 410-465-6105 FAX: 410-465-6844



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BY	NO.	REVISIONS	DATE		

PROFILE VIEW  
PUBLIC WATER & SEWER MAINS  
600 SCALE MAP NO. 16 BLOCK: 11 200 SCALE MAP NO. 146

**VILLAGES AT TURF VALLEY**  
PHASE 1 SECTION 1  
OPEN SPACE LOTS 68 thru 69  
TAX MAP: 16 - BLOCK: 17 - PARCEL: P/O 8 - ZONED: PGCC - ELECTION DISTRICT: 3  
**CONTRACT NO. 24-4645-D**

SCALE:  
AS SHOWN  
SHEET NO.  
3 OF 3