

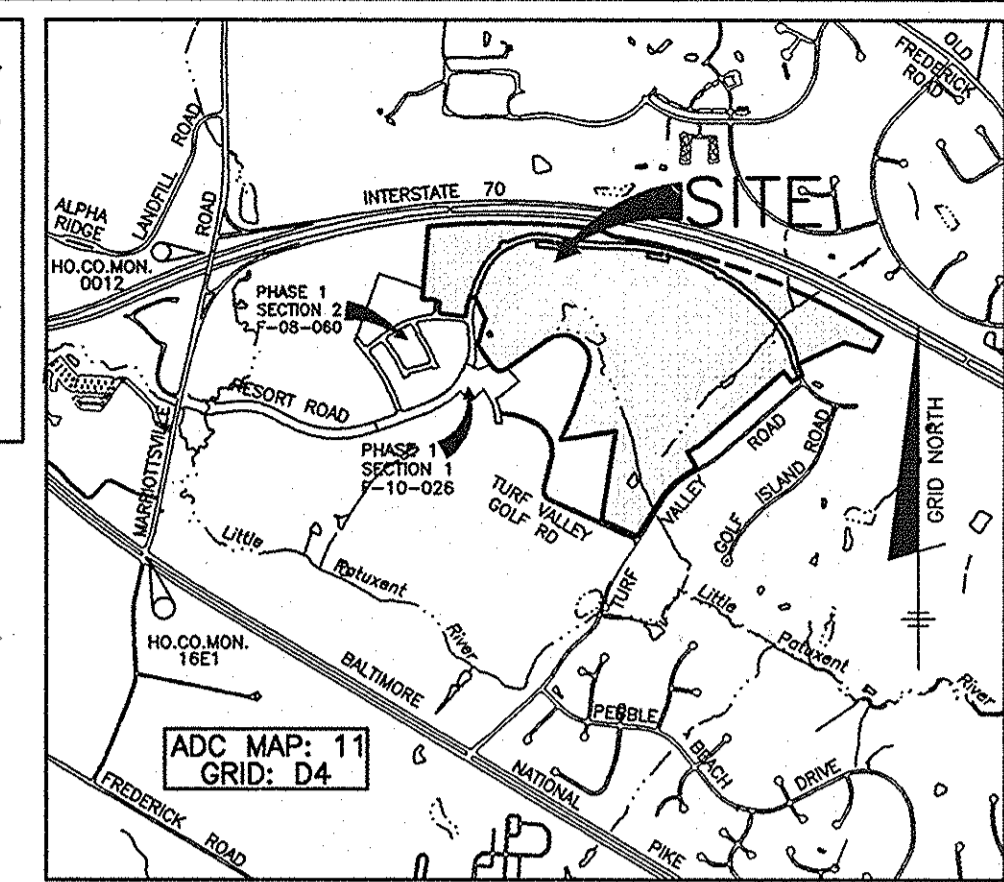
# VILLAGES AT TURF VALLEY

## PHASE 2, SECTION 1

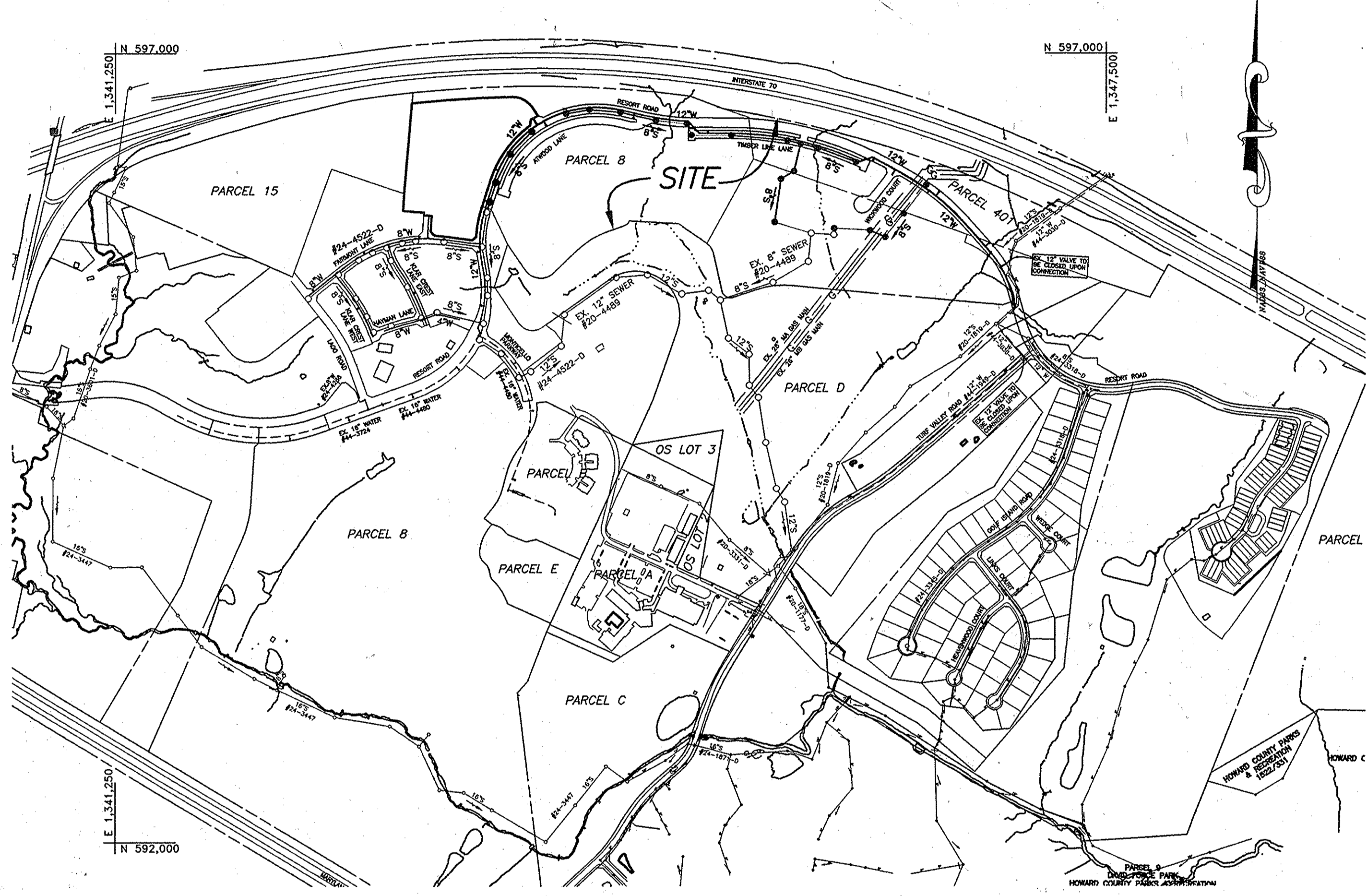
### LOT 203; OPEN SPACE LOTS 204 thru 207; GOLF SPACE LOTS 77, 78, 208, & 209; PARCELS A & B; NON-BUILDABLE BULK PARCELS CC-1, DD-1, EE-1 & FF-1

## CONTRACT NO. 24-4549-D

**BENCHMARKS NAD'83 HORIZONTAL**  
 HO. CO. #16E1 (AKA: 3438001)  
 STAMPED BRASS DISK SET ON TOP OF A 3'  
 DEEP COLUMN OF CONCRETE.  
 N 593250.960' E 1340192.70'  
 ELEVATION: 463.981'  
 HO. CO. #0012 (AKA: 3439001)  
 STAMPED BRASS DISK SET ON TOP OF A 3'  
 DEEP COLUMN OF CONCRETE.  
 N 596502.760' E 1340864.37'  
 ELEVATION: 486.298'



VICINITY MAP  
SCALE: 1" = 2000'



QUANTITIES			
ITEMS	QUANTITIES ESTIMATED	AS-BUILT	
		QUANTITIES	TYPE MANUF./SUPPLIER
12" D.I.P. WATER	676 LF		OS PIPE / HD SUPPLY
12" PVC C900 WATER	3928 LF	PVC	JM EAGLE / HD SUPPLY
8" PVC C900 WATER	475 LF	PVC	JM EAGLE / HD SUPPLY
FIRE HYDRANTS (INCLUDES TEE & 6" VALVE)	10 EA.		
12" X 8" TEE	1 EA.	DIP	KENNEDY / HD SUPPLY
12" X 12" TEE	2 EA.	DIP	STAR PIPE / HD SUPPLY
12" VALVES	12 EA.	GATE	KENNEDY / HD SUPPLY
8" VALVES	1 EA.	CHP GATE	KENNEDY / HD SUPPLY
8" PLUG & BUTTRESS	1 EA.	DIP	STAR PIPE / HD SUPPLY
1/32 BEND	13 EA.	DIP	STAR PIPE / HD SUPPLY
1/16 BEND	4 EA.	DIP	STAR PIPE / HD SUPPLY
1/8 BEND	15 EA.	DIP	STAR PIPE / HD SUPPLY
12" PLUG & BUTTRESS	2 EA.	DIP	STAR PIPE / HD SUPPLY
12" X 12" CROSS	1 EA.	DIP	STAR PIPE / HD SUPPLY
1.5" WHC	1142 LF	COPPER	CAMPBELL CORP. / HD SUPPLY
1" METERS	44 EA.		EARD METER / HD SUPPLY
4" WHC	40 LF	PVC	JM EAGLE / HD SUPPLY
8" PVC SDR-35 SEWER	3772 LF	PVC	JM EAGLE / HD SUPPLY
8" PVC C-900 SEWER	973 LF	PVC	JM EAGLE / HD SUPPLY
MANHOLES	27 EA.	CONCRETE	ATLANTIC
VERT FEET OF MANHOLES	367 VF		
4" SHC	1048 LF	PVC	JM EAGLE / HD SUPPLY

NAME OF UTILITY CONTRACTOR: CTG  
 SURVEY AND DRAFTING DIVISION AS-BUILT DATE: 12-2-14

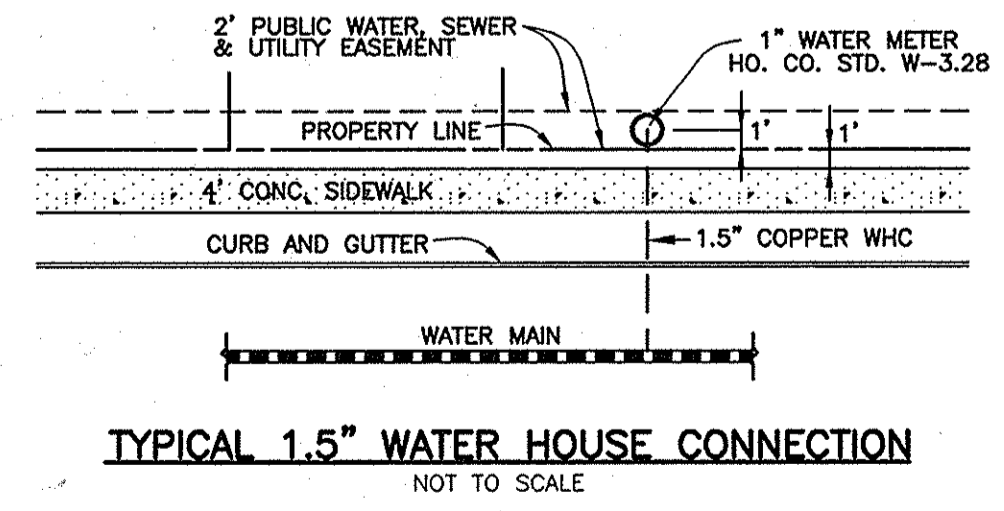
(FOR COUNTY USE ONLY) WATER AND SEWER COUNTY CODE: WATER ZONE: 630W TEST GRADIENT: 780	TYPE OF BUILDING: N/A NO. OF LOTS/PARCELS/UNITS: 2 NUMBER OF SHC'S: 42 NUMBER OF WHC'S: 45 AREA OF COMMERCIAL LOT/PARCEL: N/A SEWER SHED: LITTLE PATUXENT WRP PUMPING STATION: ROUTE 108 PS
-------------------------------------------------------------------------------------------------	---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

LOCATION MAP  
SCALE: 1" = 600'

SHEET INDEX	
NO.	DESCRIPTION
1	TITLE SHEET PUBLIC WATER & SEWER MAINS
2	PLAN VIEW OF PUBLIC WATER & SEWER MAINS
3	PLAN VIEW OF PUBLIC WATER & SEWER MAINS
4	PLAN VIEW OF PUBLIC WATER & SEWER MAINS
5	PROFILE VIEW OF PUBLIC WATER & SEWER MAINS
6	PROFILE VIEW OF PUBLIC WATER & SEWER MAINS
7	PROFILE VIEW OF PUBLIC WATER & SEWER MAINS
8	PROFILE VIEW OF PUBLIC WATER & SEWER MAINS

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

THIS PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.  
  
 HOWARD SOIL CONSERVATION DISTRICT  
 DATE: 4/8/10  
 SEDIMENT CONTROL MEASURES FOR THIS CONTRACT WILL BE IMPLEMENTED IN ACCORDANCE WITH SECTION 219 OF THE HOWARD COUNTY STANDARD SPECIFICATIONS AND AS PER F-08-084.



NOTE:  
 WATER HOUSE CONNECTIONS SHALL BE 1.5" WITH 1" METERS (OUTSIDE SETTING).

NOTE:  
 UPON COMPLETION OF THE SEWER LINE FROM EX SMH-116 TO SMH-165 AND THE 12" WATER MAIN FROM STATION 42+95.96 UP TO THE 12" VALVE AT STATION 33+20, WATER AND SEWER SERVICE CAN BE PROVIDED TO PARCEL 'A' FOR THE MAINTENANCE SHOP (SDP-08-094)

### 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.
  - 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. 18E1.
  - ALL VERTICAL CONTROLS ARE BASED ON NAVD '88. VERTICAL CONTROLS PROVIDED ON THE DRAWINGS ARE 0012 AND 18E1.
  - 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 (H) 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 (EMERGENCY).....410-850-1400  
 BUREAU OF UTILITIES.....410-313-4800  
 COLONIAL PIPELINE CO.....410-788-1380  
 MISS UTILITY.....1-800-257-7777  
 STATE HIGHWAY ADMINISTRATION.....410-531-5533  
 VERIZON.....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.
  - 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(G) 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. CLASS 54 OR P.V.C. C900 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 WATER TIGHT FRAME AND COVER. STANDARD DETAIL 05.52, WHERE WATER TIGHT 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 CELLAR CANNOT BE SERVED.

DEPARTMENT OF PUBLIC WORKS  
 HOWARD COUNTY, MARYLAND  
  
 CHIEF, BUREAU OF UTILITIES  
 DATE: 4/13/10

DEPARTMENT OF PLANNING AND ZONING  
 HOWARD COUNTY, MARYLAND  
  
 CHIEF, DEVELOPMENT ENGINEERING DIVISION  
 DATE: 4/13/10

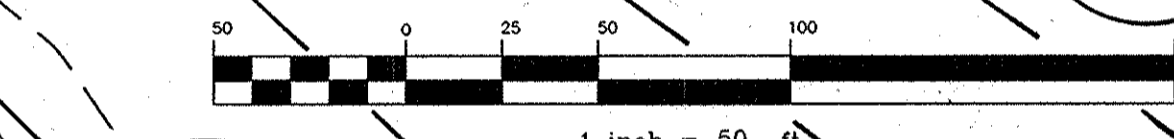
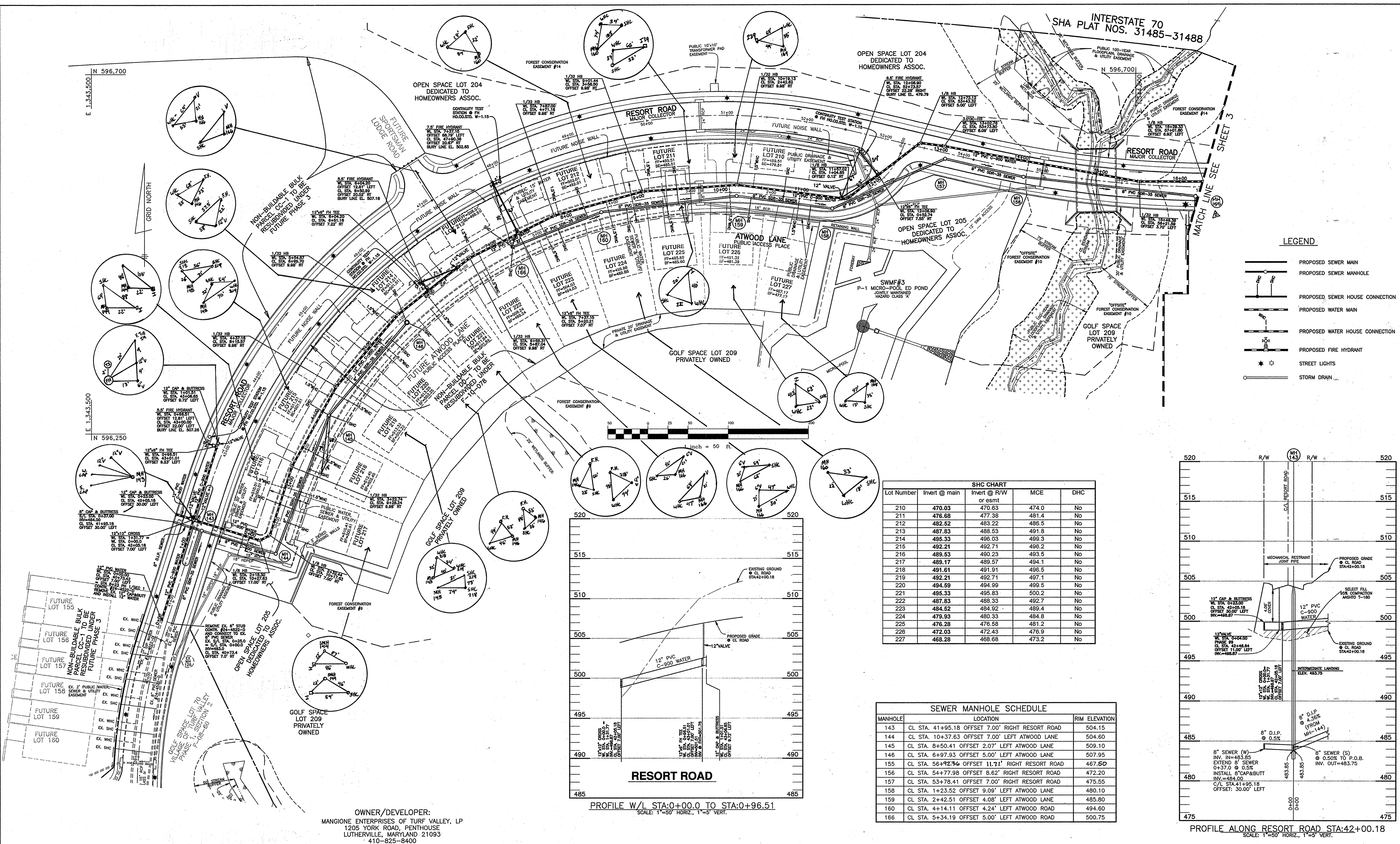
**BENCHMARK**  
 ENGINEERS & LAND SURVEYORS & PLANNERS  
**ENGINEERING, INC.**  
 6480 BALTIMORE NATIONAL PIKE SUITE 418 ELLICOTT CITY, MARYLAND 21043  
 (P) 410-465-6105 (F) 410-465-6544  
 (P) 301-371-3505 (F) 301-371-3508  
 WWW.BE-CVLENGINEERING.COM

Professional Certification. I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland. License No. 21443, Expiration Date: 12-21-2010.

DESIGN: DBT	PTK 4	REVISE MATERIAL TYPE AND SUPPLY IN QUANTITIES	12-18-2010
DRAFT: DBT	BE1 3	REVISE MANHOLES IN QUANTITIES CHART FROM 26 TO 27	6-5-2014
CHK: DAM	BE1 2	REVISE ATWOOD LANE, TIMBER LINE LANE AND WOODCOURT ALIGNMENT. REVISE ASSOCIATED WATER & SEWER ALIGNMENT AND LOT LAYOUT. UPDATE QUANTITIES TABLE	10-28-2013
DATE: 03/2010	BE1 1	REVISE QUANTITIES TABLE FOR 12" D.I.P. WATER & 12" V	5-1-2012
BY NO.		REVISIONS	DATE

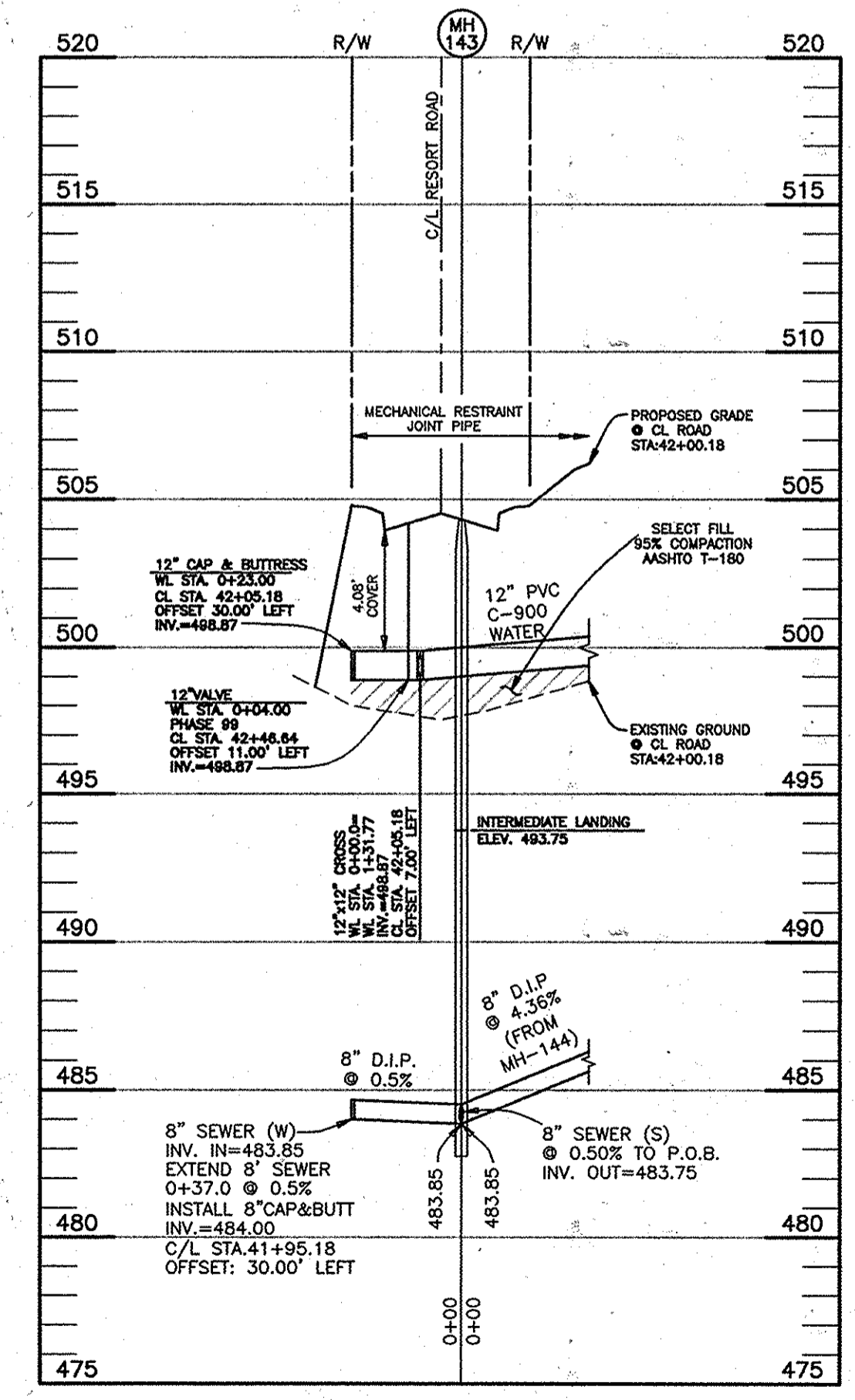
TITLE SHEET  
 PUBLIC WATER & SEWER MAINS  
 600 SCALE MAP NO. 16 BLOCK: 11 200 SCALE MAP NO. 146

**VILLAGES AT TURF VALLEY**  
 PHASE 2, SECTION 1  
 LOT 203; OPEN SPACE LOTS 204 thru 207;  
 GOLF SPACE LOTS 77, 78, 208 & 209; PARCELS A & B;  
 NON-BUILDABLE BULK PARCELS CC-1, DD-1, EE-1 & FF-1  
 TAX MAP: 16 - BLOCK: 17 - PARCEL: 401, P/O 8, P/O 394 - ZONED: PGCC - ELECTION DISTRICT: 3  
**CONTRACT NO. 24-4549-D**  
 SCALE: AS SHOWN  
 SHEET NO. 1 OF 8



Lot Number	SHC CHART		MCE	DHC
	Invert @ main	Invert @ R/W or esmt		
210	470.03	470.63	474.0	No
211	476.68	477.38	481.4	No
212	482.52	483.22	486.5	No
213	487.83	488.53	491.8	No
214	495.33	496.03	499.3	No
215	492.21	492.71	496.2	No
216	489.53	490.23	493.5	No
217	489.17	489.57	494.1	No
218	491.61	491.91	496.5	No
219	492.21	492.71	497.1	No
220	494.59	494.99	499.5	No
221	495.33	495.83	500.2	No
222	487.83	488.33	492.7	No
223	484.52	484.92	489.4	No
224	479.93	480.33	484.8	No
225	476.28	476.58	481.2	No
226	472.03	472.43	476.9	No
227	468.28	468.68	473.2	No

MANHOLE	LOCATION	RIM ELEVATION
143	CL STA. 41+95.18 OFFSET 7.00' RIGHT RESORT ROAD	504.15
144	CL STA. 10+37.63 OFFSET 7.00' LEFT ATWOOD LANE	504.60
145	CL STA. 8+50.41 OFFSET 2.07' LEFT ATWOOD LANE	509.10
146	CL STA. 6+97.93 OFFSET 5.00' LEFT ATWOOD LANE	507.95
155	CL STA. 56+92.36 OFFSET 11.71' RIGHT RESORT ROAD	467.50
156	CL STA. 54+77.98 OFFSET 8.62' RIGHT RESORT ROAD	472.20
157	CL STA. 53+78.41 OFFSET 7.00' RIGHT RESORT ROAD	475.55
158	CL STA. 1+23.52 OFFSET 9.09' LEFT ATWOOD LANE	480.10
159	CL STA. 2+42.51 OFFSET 4.08' LEFT ATWOOD LANE	485.80
160	CL STA. 4+14.11 OFFSET 4.24' LEFT ATWOOD ROAD	494.60
166	CL STA. 5+34.19 OFFSET 5.00' LEFT ATWOOD ROAD	500.75



OWNER/DEVELOPER:  
MANGIONE ENTERPRISES OF TURF VALLEY, LP  
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410-825-8400

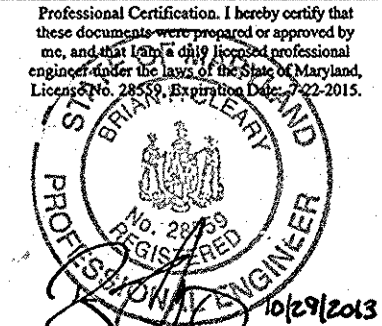
PROFILE W/L STA:0+00.0 TO STA:0+96.51  
SCALE: 1"=50' HORIZ., 1"=5' VERT.

PROFILE ALONG RESORT ROAD STA:42+00.18  
SCALE: 1"=50' HORIZ., 1"=5' VERT.

DEPARTMENT OF PUBLIC WORKS  
HOWARD COUNTY, MARYLAND

DEPARTMENT OF PLANNING AND ZONING  
HOWARD COUNTY, MARYLAND

**BENCHMARK**  
ENGINEERS & LAND SURVEYORS & PLANNERS  
**ENGINEERING, INC.**  
8460 BALTIMORE NATIONAL PIKE & SUITE 418 ELLICOTT CITY, MARYLAND 21043  
(P) 410-465-8105 (F) 410-465-6644  
60 THOMAS JOHNSON DRIVE & FREDERICK, MARYLAND 21702  
(P) 301-371-3505 (F) 301-371-3506  
WWW.BE-CIVILENGINEERING.COM



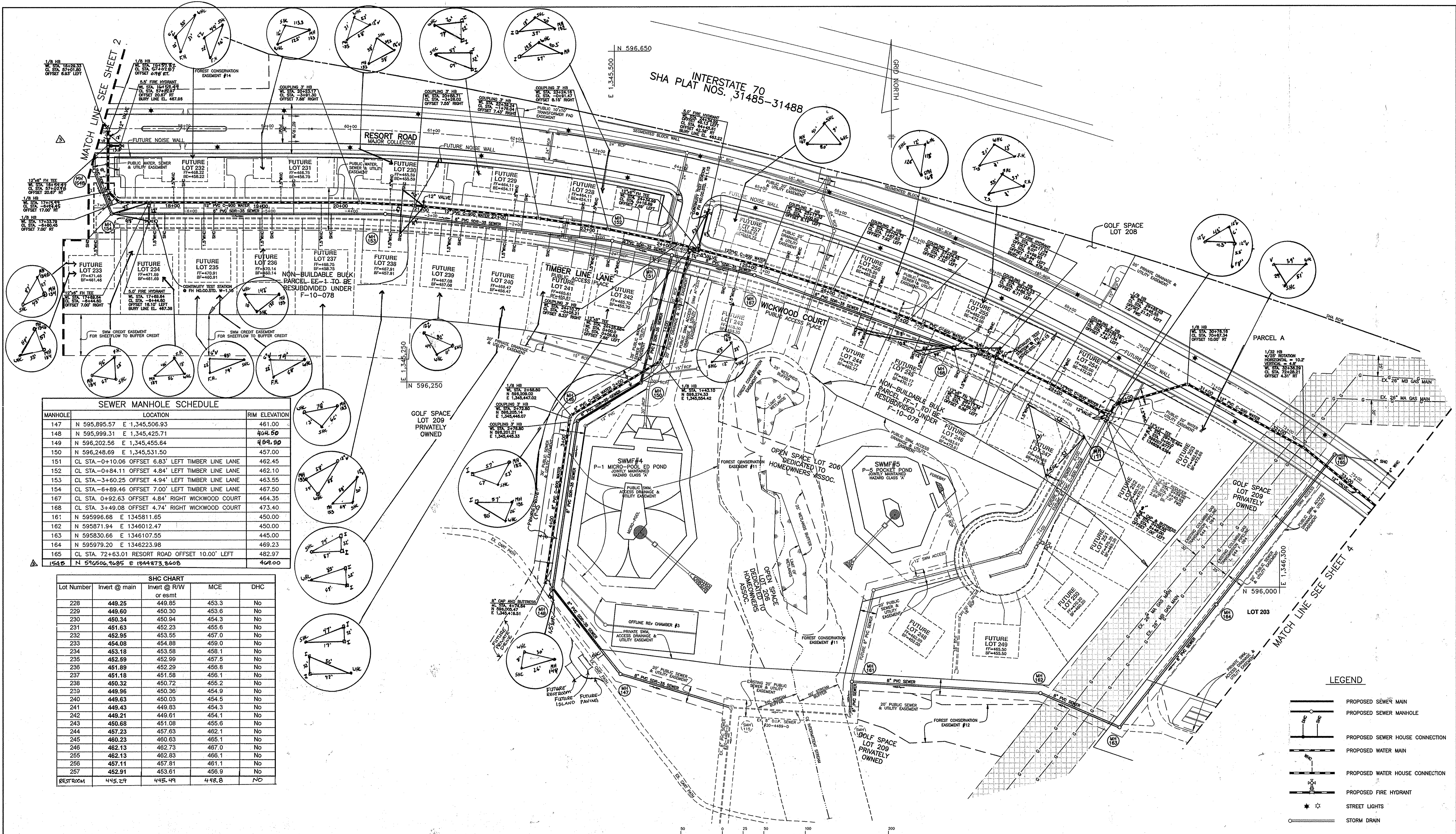
DESIGN: MCR DBT	DATE: 12-12-2014
DRAFT: MCR DBT	DATE: 6-5-2014
CHK: DAM	DATE: 10-28-2013
DATE: 09/2013	

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

**VILLAGES AT TURF VALLEY**  
PHASE 2, SECTION 1  
LOT 203; OPEN SPACE LOTS 204 thru 207;  
GOLF SPACE LOTS 77, 78, 208 & 209; PARCELS A & B;  
NON-BUILDABLE BULK PARCELS CC-1, DD-1, EE-1 & FF-1  
TAX MAP: 16 - BLOCK: 17 PARCEL: 401, P/O B, P/O 394 ZONED: PCCC - ELECTION DISTRICT: 3  
**CONTRACT NO. 24-4549-D**

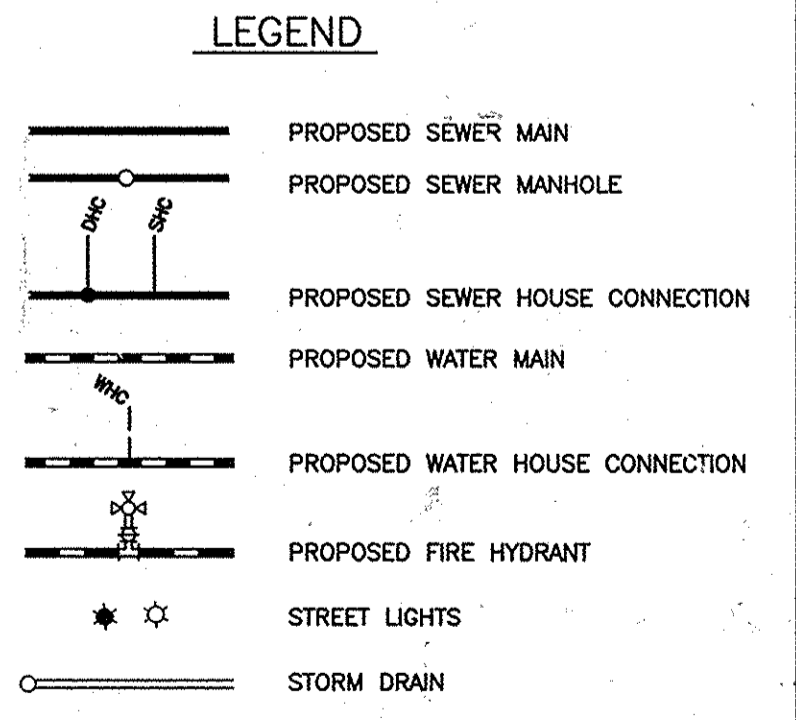
SCALE:  
AS SHOWN  
SHEET NO.  
2 OF 8

P:\1919\dwg\Phase 2 Section 1\1Major Rodline 266046.dwg, 10/29/2013 1:46:16 PM



MANHOLE	LOCATION	RIM ELEVATION
147	N 595,895.57 E 1,345,506.93	461.00
148	N 595,999.31 E 1,345,425.71	464.50
149	N 596,202.56 E 1,345,455.64	469.50
150	N 596,248.69 E 1,345,531.50	457.00
151	CL STA. -0+10.06 OFFSET 6.83' LEFT TIMBER LINE LANE	462.45
152	CL STA. -0+84.11 OFFSET 4.84' LEFT TIMBER LINE LANE	462.10
153	CL STA. -3+60.25 OFFSET 4.94' LEFT TIMBER LINE LANE	463.55
154	CL STA. -6+89.46 OFFSET 7.00' LEFT TIMBER LINE LANE	467.50
167	CL STA. 0+92.63 OFFSET 4.84' RIGHT WICKWOOD COURT	464.35
168	CL STA. 3+49.08 OFFSET 4.74' RIGHT WICKWOOD COURT	473.40
161	N 595,996.68 E 1,345,811.65	450.00
162	N 595,871.94 E 1,346,012.47	450.00
163	N 595,830.66 E 1,346,107.55	445.00
164	N 595,979.20 E 1,346,223.98	469.23
165	CL STA. 72+63.01 RESORT ROAD OFFSET 10.00' LEFT	482.97
154.5	N 596,506.46 E 1,344,873.94	469.00

Lot Number	Invert @ main	Invert @ R/W or esmt	MCE	DHC
228	449.25	449.85	453.3	No
229	449.60	450.30	453.6	No
230	450.34	450.94	454.3	No
231	451.63	452.23	455.6	No
232	452.95	453.55	457.0	No
233	454.08	454.88	459.0	No
234	453.18	453.58	458.1	No
235	452.59	452.99	457.5	No
236	451.89	452.29	456.8	No
237	451.18	451.58	456.1	No
238	450.32	450.72	455.2	No
239	449.96	450.36	454.9	No
240	449.63	450.03	454.5	No
241	449.43	449.83	454.3	No
242	449.21	449.61	454.1	No
243	450.68	451.08	455.6	No
244	457.23	457.63	462.1	No
245	460.23	460.63	465.1	No
246	462.13	462.53	467.0	No
255	462.13	462.53	466.1	No
256	457.11	457.51	461.1	No
257	452.91	453.31	456.9	No
RESTROOM	445.29	445.49	448.8	No

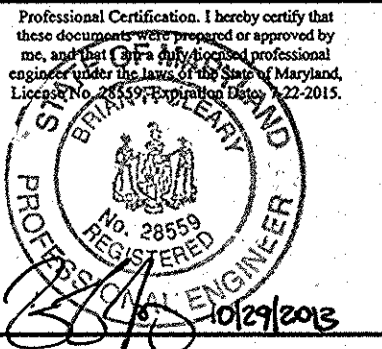


OWNER/DEVELOPER:  
MANGIONE ENTERPRISES OF TURF VALLEY, LP  
1205 YORK ROAD, PENTHOUSE  
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410-825-8400

DEPARTMENT OF PUBLIC WORKS  
HOWARD COUNTY, MARYLAND

DEPARTMENT OF PLANNING AND ZONING  
HOWARD COUNTY, MARYLAND

**BENCHMARK**  
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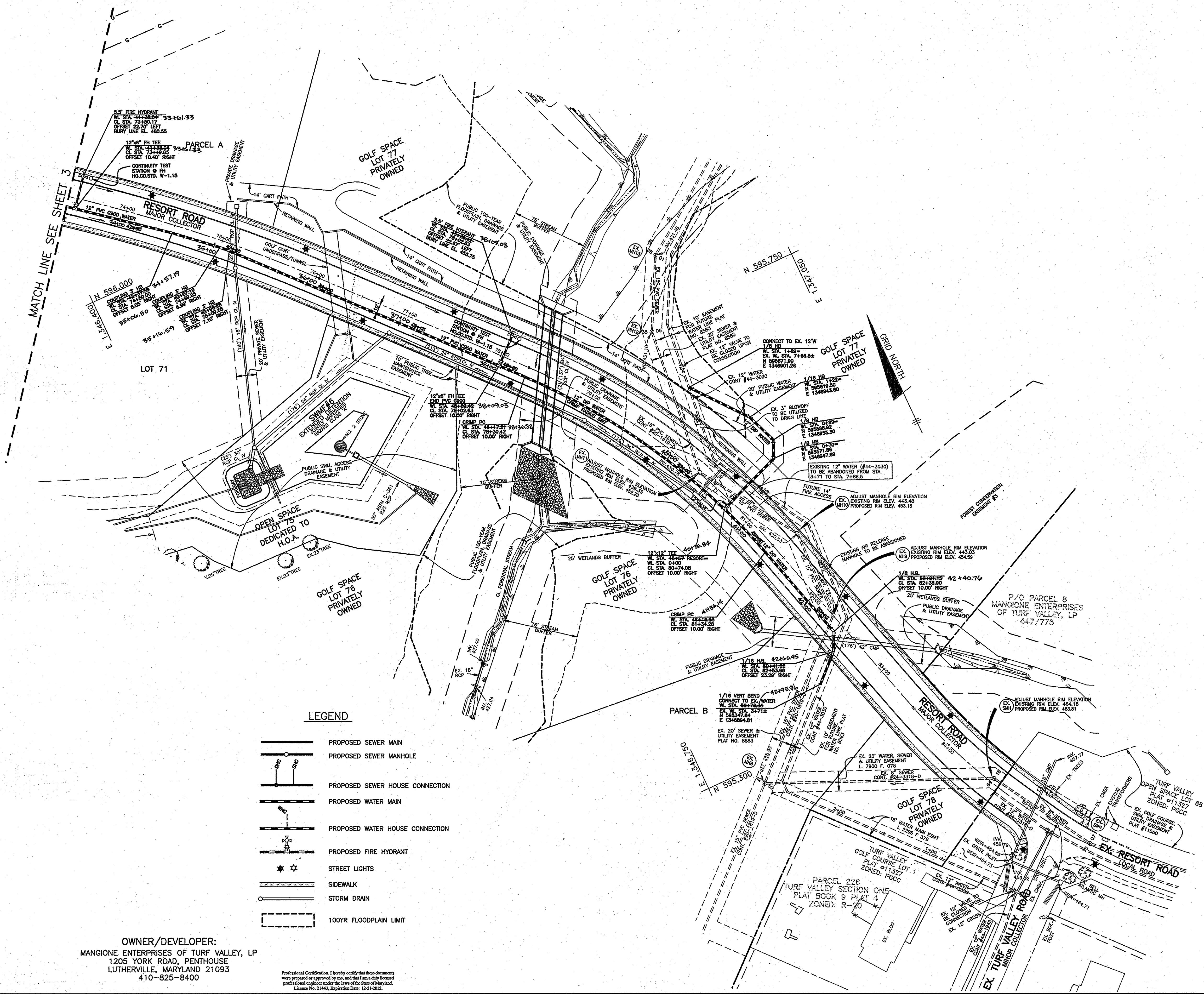


DESIGN: MCR DBT	BEI 5	REVISE BOTTOM LOCATION AND ASSOCIATED NWC & SHC. SHOW PRIVATE DRIVE. REVISE SIDEWALK. REVISE SIDEWALK. REVISE SIDEWALK.	2-23-2016
DRAFT: MCR DBT	BEI 4	WATER AND SEWER AS-BUILTS	12-15-2014
CHK: DAM	BEI 3	REVISE WATER AND SEWER ALIGNMENT BETWEEN SMH 154 AND 155. ADD SMH 154E.	6-5-2014
DATE: 09/2013	BEI 2	REVISE Timber Line Lane and Wickwood Court Alignment. Revise lots, water, sewer and house connections, revise SHC Chart and Sewer Manhole Chart.	10-28-2013
	BEI 1	ADD 12" VALVE AT STATION 41+00	3-1-2012
	BY NO.	REVISIONS	DATE

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

**VILLAGES AT TURF VALLEY**  
PHASE 2, SECTION 1  
LOT 203; OPEN SPACE LOTS 204 thru 207;  
GOLF SPACE LOTS 77, 78, 208 & 209; PARCELS A & B;  
NON-BUILDABLE BULK PARCELS CC-1, DD-1, EE-1 & FF-1  
TAX MAP: 16 - BLOCK: 11 - PARCEL: 401, P/O 8, P/O 394 - ZONED: PGCC - ELECTION DISTRICT: 3  
**CONTRACT NO. 24-4549-D**

SCALE:  
AS SHOWN  
SHEET NO.  
3 OF 8



**LEGEND**

- PROPOSED SEWER MAIN
- PROPOSED SEWER MANHOLE
- PROPOSED SEWER HOUSE CONNECTION
- PROPOSED WATER MAIN
- PROPOSED WATER HOUSE CONNECTION
- PROPOSED FIRE HYDRANT
- STREET LIGHTS
- SIDEWALK
- STORM DRAIN
- 100YR FLOODPLAIN LIMIT

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

Professional Certification. I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland, License No. 21443, Expiration Date: 12-31-2012.

DEPARTMENT OF PUBLIC WORKS  
 HOWARD COUNTY, MARYLAND

DEPARTMENT OF PLANNING AND ZONING  
 HOWARD COUNTY, MARYLAND

**BENCHMARK**  
 ENGINEERS • LAND SURVEYORS • PLANNERS  
**ENGINEERING, INC.**  
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 WWW.BE-CHILDRENGINEERING.COM



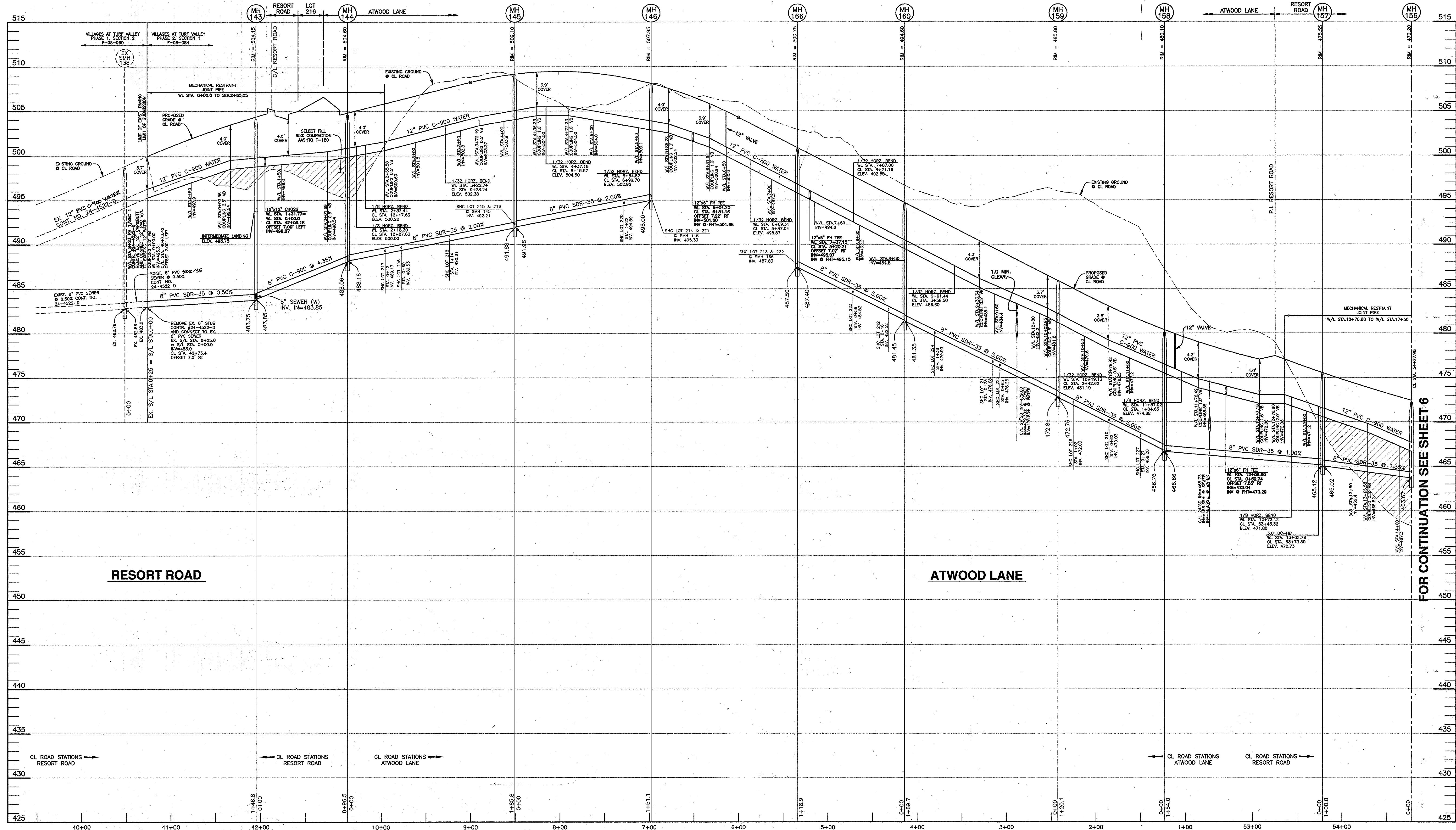
DESIGN: DBT			
DRAFT: DBT			
CHK: DAM			
DATE: 03/2010			
BY NO.		REVISIONS	DATE
		BEI 2	REVISE WATER LINE STATIONING ALONG RESORT ROAD 10-28-2013
		BEI 1	REVISE THE WATER CONNECTION TO EXISTING SEWER AT RESORT ROAD STA. 80+57, ADD CART PATH AND RET. WALL NORTH OF RESORT ROAD, ADD TUNNEL, REVISE ASSOCIATED STORM DRAIN. 5-1-2012

**PLAN VIEW  
 PUBLIC WATER & SEWER MAINS**

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

**VILLAGES AT TURF VALLEY**  
 PHASE 2, SECTION 1  
 LOT 205; OPEN SPACE LOTS 204 thru 207;  
 GOLF SPACE LOTS 77, 78, 208 & 209; PARCELS 5, A & B;  
 NON-BUILDABLE BULK PARCELS CC, 1, DD-1, EE-1 & FF-1  
 TAX MAP: 16 - BLOCK: 17 - PARCEL: 401, P/O 5, P/O 394 - ZONED: PGCC - ELECTION DISTRICT: 3  
**CONTRACT NO. 24-4549-D**

SCALE:  
 AS SHOWN  
 SHEET NO.  
 4 OF 8



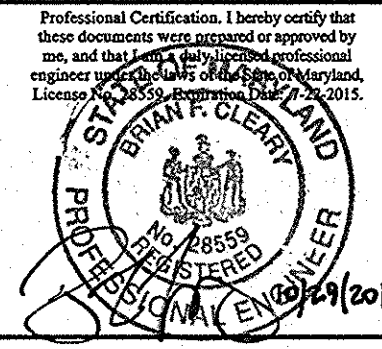
FOR CONTINUATION SEE SHEET 6

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.**  
 8480 BALTIMORE NATIONAL PIKE & SUITE 418 & ELLICOTT CITY, MARYLAND 21043  
 (P) 410-462-6100 (F) 410-465-6644  
 60 THOMAS JOHNSON DRIVE & FREDERICK, MARYLAND 21702  
 (P) 301-371-3505 (F) 301-371-3506  
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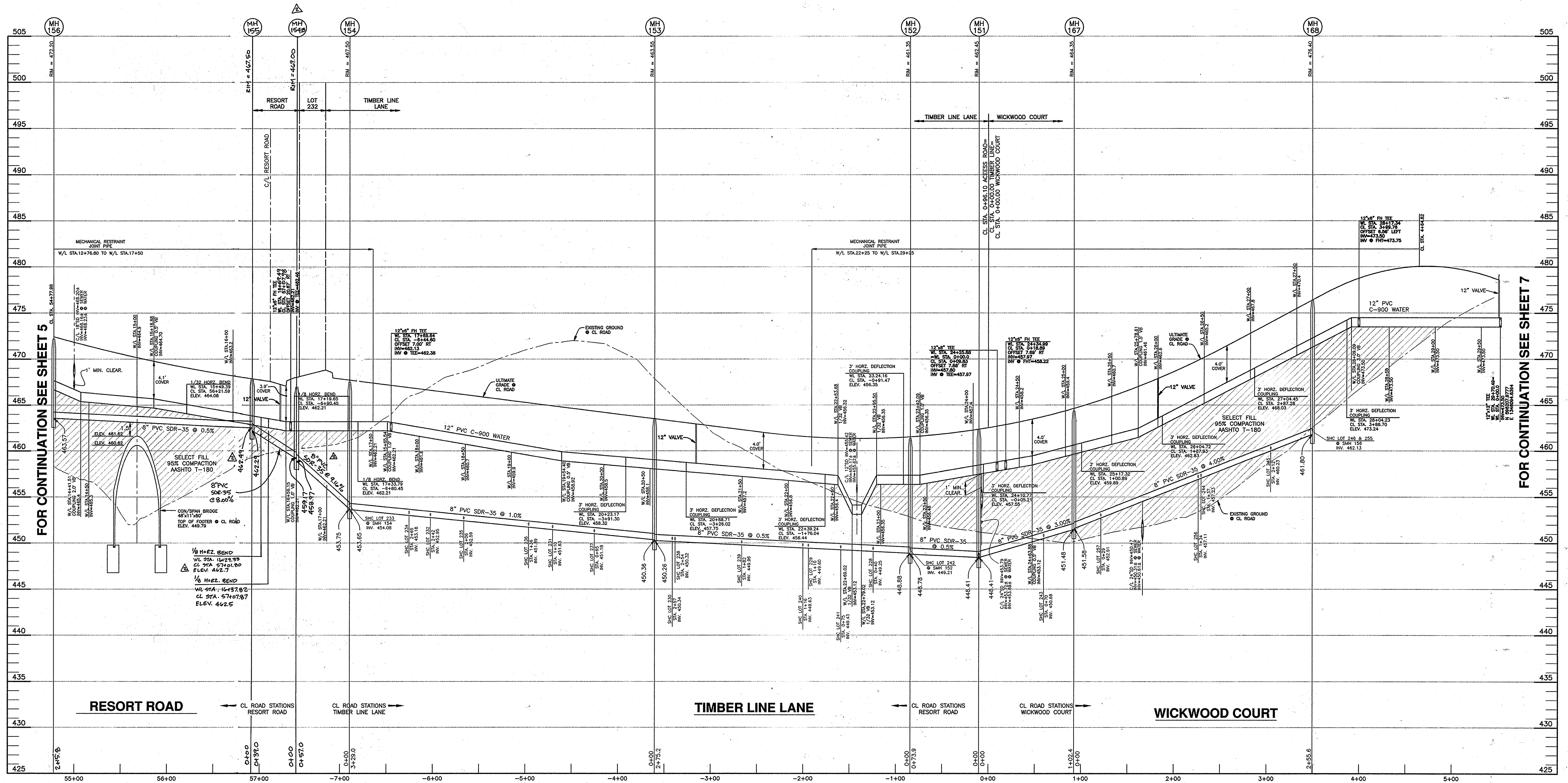
DESIGN:	MCR DBT		
DRAFT:	MCR DBT		
CHK:	DAM		
DATE:	09/2013		
BY:	NO.	REVISIONS	DATE
	1	revise water to be PVC, revise profile to match revised water, sewer and road alignment.	10-28-2013

**PROFILE VIEW  
 PUBLIC WATER & SEWER MAINS**

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

**VILLAGES AT TURF VALLEY**  
 PHASE 2, SECTION 1  
 LOT 203; OPEN SPACE LOTS 204 thru 207;  
 GOLF SPACE LOTS 77, 78, 208 & 209; PARCELS A & B;  
 NON-BUILDABLE BULK PARCELS CC-1, DD-1, EE-1 & FF-1  
 TAX MAP: 16 - BLOCK: 17 - PARCEL: 401, P/O B, P/O 394 - ZONED: PGCC - ELECTION DISTRICT: 3  
**CONTRACT NO. 24-4549-D**

SCALE:  
 AS SHOWN  
 SHEET NO.  
 5 OF 8



FOR CONTINUATION SEE SHEET 5

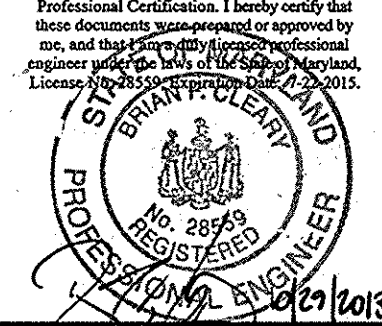
FOR CONTINUATION SEE SHEET 7

OWNER/DEVELOPER:  
 MANGIONE ENTERPRISES OF TURF VALLEY, LP  
 1205 YORK ROAD, PENTHOUSE  
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DEPARTMENT OF PUBLIC WORKS  
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 60 THOMAS JOHNSON DRIVE & FREDERICK, MARYLAND 21702  
 (P) 301-371-3505 (F) 301-371-3508  
 WWW.BEI-CVLENGINEERING.COM



DESIGN:	MCR	DBT
DRAFT:	MCR	DBT
CHK:	DAM	
DATE:	09/2013	
BY:	NO.	
REVISIONS:		
DATE:		

**PROFILE VIEW  
 PUBLIC WATER & SEWER MAINS**

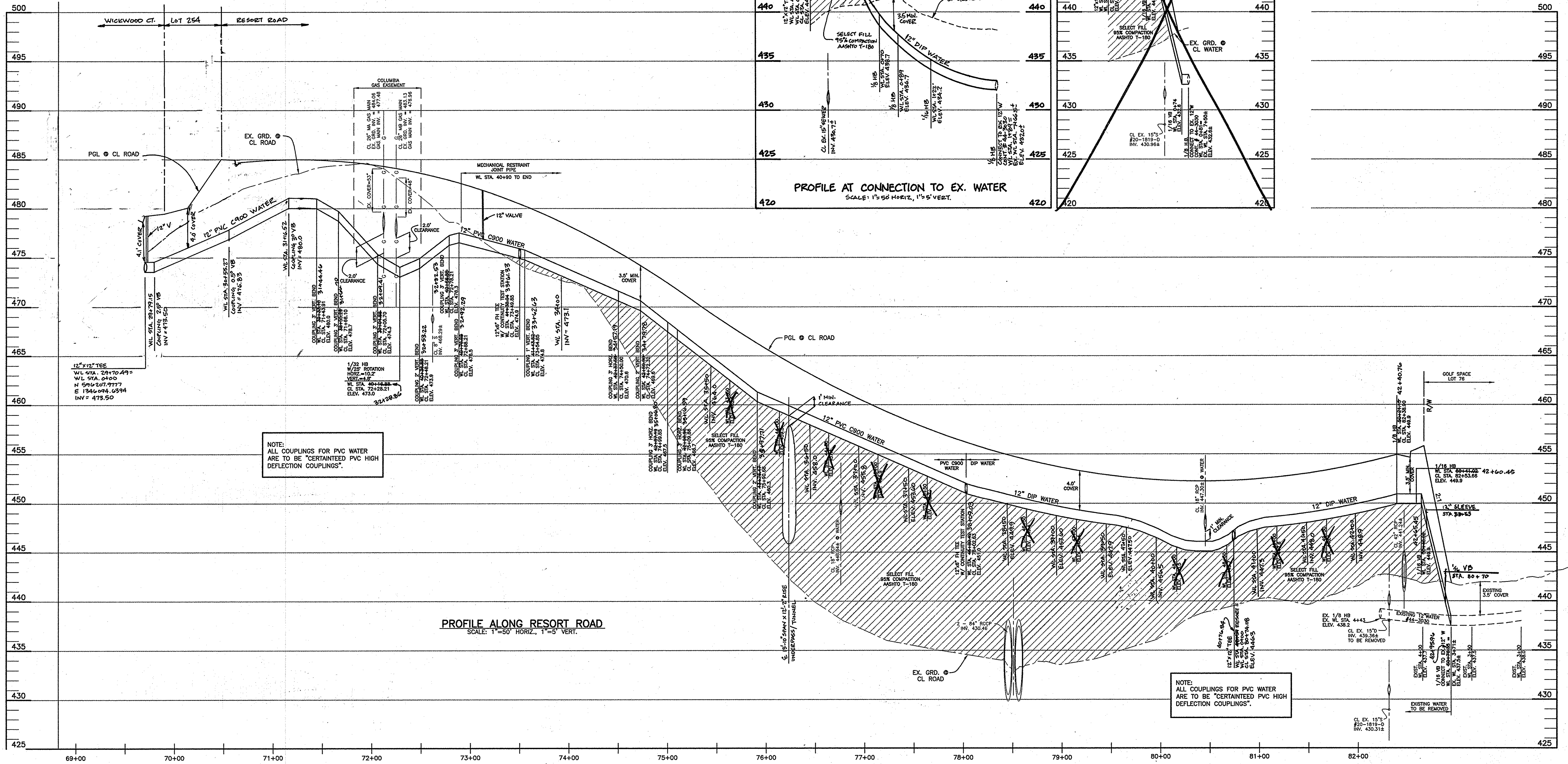
600 SCALE MAP NO. 16 BLOCK: 11 200 SCALE MAP NO. 146

**VILLAGES AT TURF VALLEY**

PHASE 2, SECTION 1  
 LOT 203; OPEN SPACE LOTS 204 thru 207;  
 GOLF SPACE LOTS 77, 78, 208 & 209; PARCELS A & B;  
 NON-BUILDABLE BULK PARCELS CC-1, DD-1, EE-1 & FF-1

TAX MAP: 16 - BLOCK: 17 - PARCEL: 401, P/O 8, P/O 394 - ZONED: PGCC - ELECTION DISTRICT: 3  
**CONTRACT NO. 24-4549-D**

SCALE:  
 AS SHOWN  
 SHEET NO.  
 6 OF 8



NOTE:  
ALL COUPLINGS FOR PVC WATER  
ARE TO BE "CERTAINTED PVC HIGH  
DEFLECTION COUPLINGS".

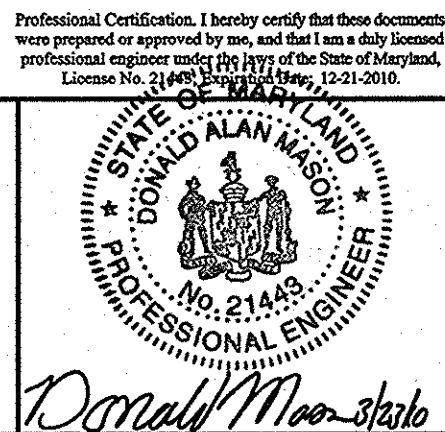
NOTE:  
ALL COUPLINGS FOR PVC WATER  
ARE TO BE "CERTAINTED PVC HIGH  
DEFLECTION COUPLINGS".

OWNER/DEVELOPER:  
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60 THOMAS JOHNSON DRIVE & FREDERICK, MARYLAND 21702  
(P) 301-371-3505 (F) 301-371-3508  
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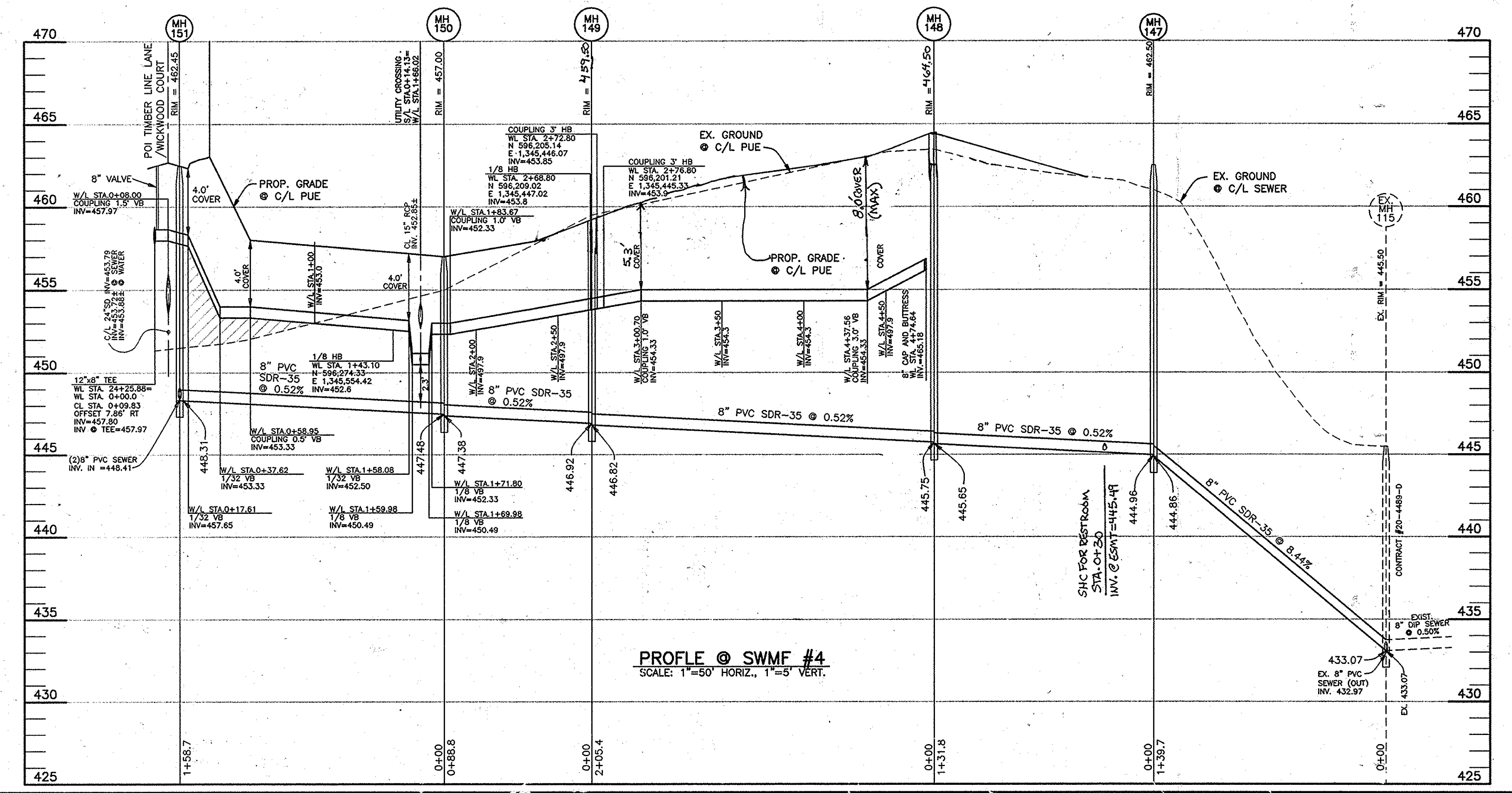
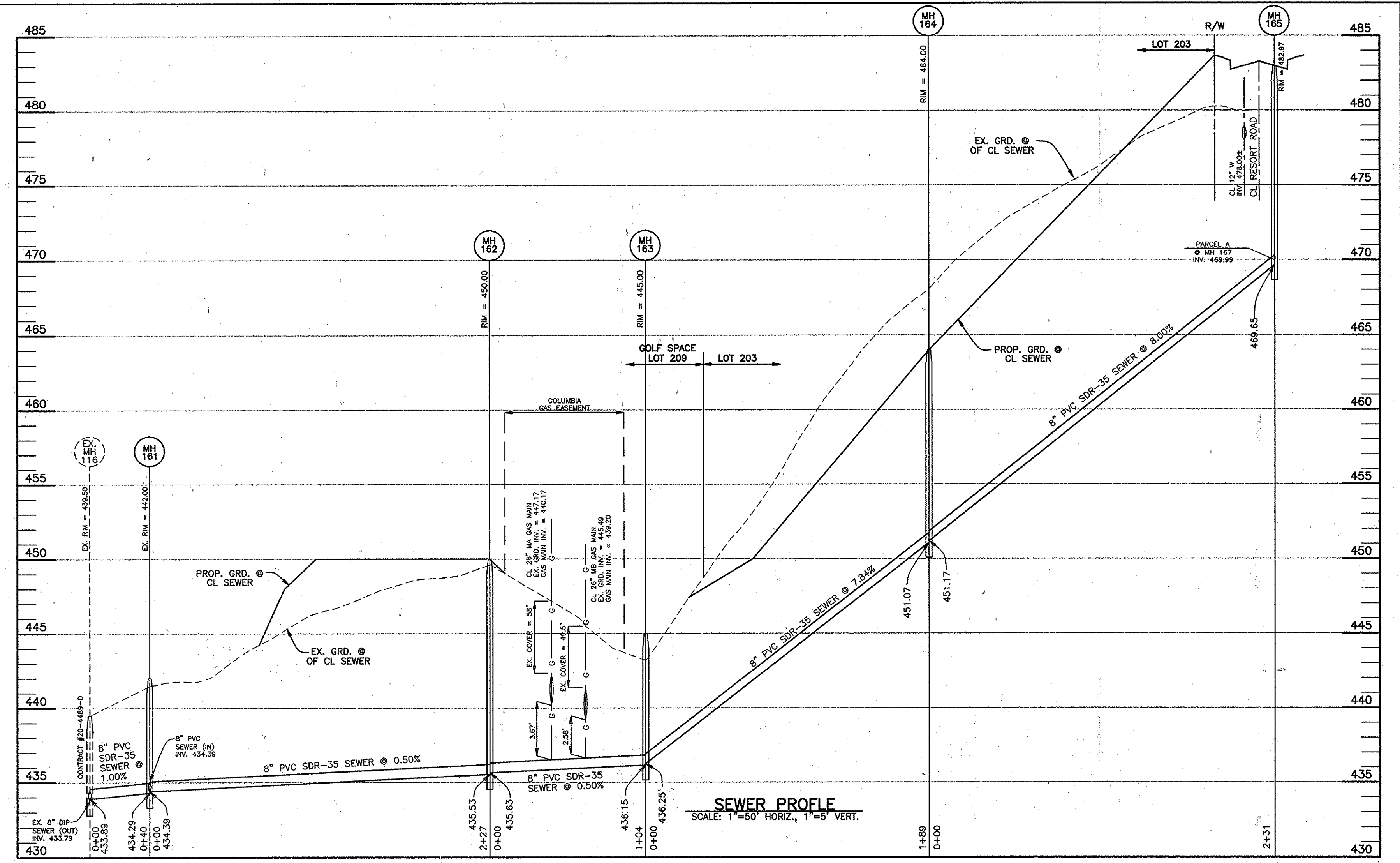


DESIGN:	DBT			
DRAFT:	DBT			
CHK:	DAM			
DATE:	03/2010			
BY NO.				
REVISIONS				
	FTK 3	REVISE WATER PROFILE BETWEEN STA. 69+00 AND STA. 70+00	12-15-2011	
	PE1 2	REVISE WATER PROFILE WEST OF THE GAS BENT AND REVISE STATIONING ALONG EASTERN END OF WATER	10-28-2013	
	PE1 1	REVISE PROFILE AT CONNECTION TO EX. WATER. ADD TUNNEL TO PROFILE ALONG RESORT ROAD. ADD VALVE AT WL STA. 41+00	5-1-2012	

**PROFILE VIEW  
PUBLIC WATER & SEWER MAINS**

**VILLAGES AT TURF VALLEY**  
PHASE 2, SECTION 1  
LOT 203 : OPEN SPACE LOTS 204 thru 207;  
GOLF SPACE LOTS 77, 78, 208 & 209; PARCELS A & B;  
NON-BUILDABLE BULK PARCELS CC-1, DD-1, EE-1 & FF-1  
TAX MAP: 16 - BLOCK: 17 - PARCEL: 401, P/O 8, P/O 394 - ZONED: PGCC - ELECTION DISTRICT: 3  
**CONTRACT NO. 24-4549-D**

SCALE:  
AS SHOWN  
SHEET NO.  
7 OF 8

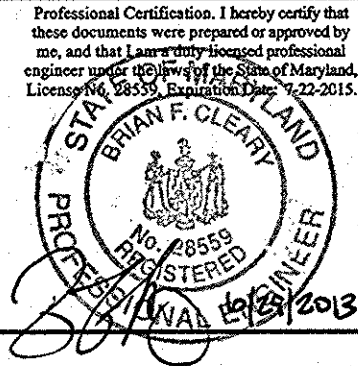


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DESIGN:	MCR				
	DBT				
DRAFT:	MCR				
	DBT				
CHK:	DAM	BEI	2	2-23-2016	
		BEI	1	10-28-2013	
DATE:	09/2013	BY:	NO.	REVISIONS	DATE

**PROFILE VIEW  
PUBLIC WATER & SEWER MAINS**

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

**VILLAGES AT TURF VALLEY**  
PHASE 2, SECTION I  
LOT 203; OPEN SPACE LOTS 204 thru 207;  
GOLF SPACE LOTS 77, 78, 208 & 209; PARCELS A & B;  
NON-BUILDABLE BULK PARCELS CC-1, DD-1, EE-1 & FF-1  
TAX MAP: 16 - BLOCK: 11 - PARCEL: 401, P/O 5, P/O 394 - ZONED: PGCC - ELECTION DISTRICT: 3  
**CONTRACT NO. 24-4549-D**

SCALE:  
AS SHOWN  
SHEET NO.  
8 OF 8