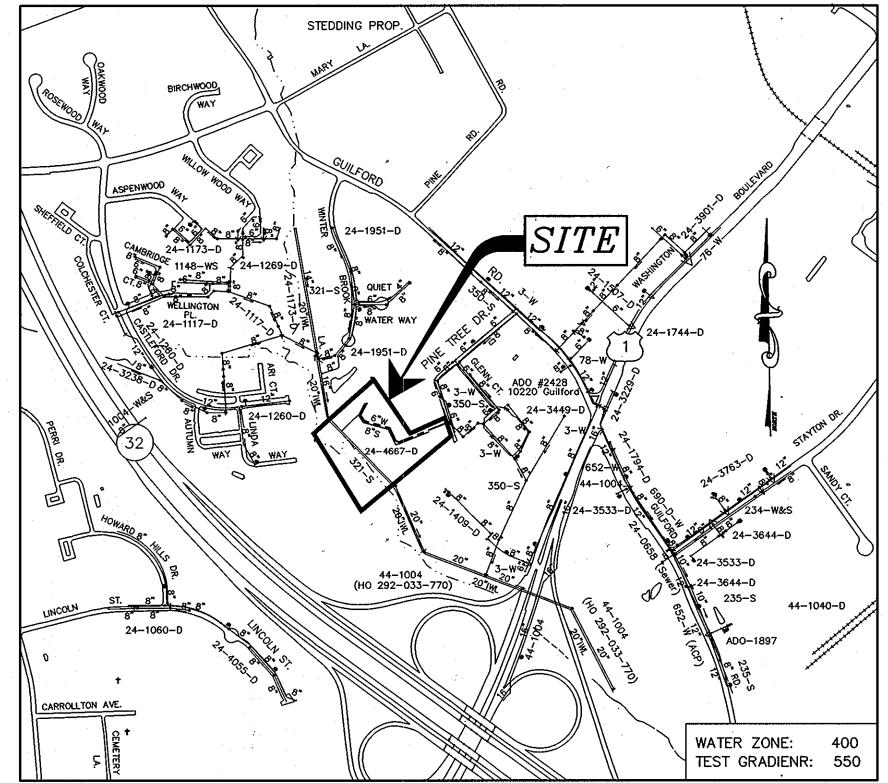
ITEMS	QUANTITIES				
11EMS	ESTIMATED	QUANTITIES	TYPE	MANUFACTURER/SUPPLIER	
STANDARD MH	8 EACH				
8" (PVC) SEWER MAIN	768 L.F.	,			
8" (DIP) SEWER MAIN	0 L.F.				
4" SHC	337 L.F.				
# 4" SEWER HOUSE CONNECTION	15 EACH				
8" (DIP) WATER MAIN	728 L.F.	·			
1 1/2" WATER HOUSE CONNECTION	310 L.F.				
# 1 1/2" WHC	3 EACH				
TWIN WHC	6 EACH				
1/16 H.B. (8")	1 EACH				
1/8 H.B. (8")	5 EACH			. 1	
6"x6" T. S. & V	2 EACH				
8"x6" F.H.T. & V.	2 EACH				
6"x8"REDUCER	1 EACH				
FIRE HYDRANT	2 EACH				
8" CAP & BUTTRESS	1 EACH				
	:				

# GUILFORD OVERLOOK LOTS 1 - 15 & OPEN SPACE LOTS 16 - 19 FINAL

WATER & SEWER CONSTRUCTION PLANS HOWARD COUNTY, MARYLAND DEPARTMENT OF PUBLIC WORKS

CONTRACT NO.: 24-4667-D



# LOCATION MAP

SCALE: 1" = 600'ADC MAP: 5053 8-K

#### TYPE OF BUILDING RESIDENTIAL No. OF UNITS No. OF WATER HOUSE CONNECTION No. OF TWIN WATER HOUSE CONNECTION No. OF SEWER HOUSE CONNECTIONS No. OF TWIN SEWER HOUSE CONNECTIONS\_ DRAINAGE AREA\_ LITTLE PATUXENT TREATMENT PLANT

### **LEGEND**

EXISTING SEWER MAIN AND MANHOLE EXISTING WATER MAIN AND VALVE

EXISTING FIRE HYDRANT

PROPOSED FIRE HYDRANT PROPOSED SEWER MAIN

PROPOSED SEWER HOUSE CONNECTION PROPOSED SEWER MANHOLE

PROPOSED WATER MAIN

PROPOSED SEWER HOUSE CONNECTION

PROPOSED TWIN SEWER HOUSE CONNECTION

EXISTING WATER HOUSE CONNECTION

EXISTING SEWER HOUSE CONNECTION

## OWNER/DEVELOPER

6800 DEERPATH RD. SUITE 100 ELKRIDGE , MARYLAND 21075 410-579-2442

#### GENERAL NOTES

- 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 ON JUNE 2008 BY WINGS AERIAL MAPPING SUPPLEMENTED BY TOPOGRAPHIC SURVEY PERFORMED BY MILDENBERG BOENDER &
- 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 31D4 AND NO. 31DA. ALL VERTICAL CONTROLS ARE BASED ON NAVD '88. VERTICAL STA. No. 48AB N 538,384.4474 E 1,366,415.7904 ELEV. 225.653
- STA. No. 47F5 N 535,985.0412 E 1,365,653.4555 ELEV. 234.996 ALL PIPE ELEVATIONS SHOWN ARE INVERT ELEVATIONS UNLESS OTHERWISE NOTED
- FOR DETAILS NOT SHOWN ON THE DRAWING, AND FOR MATERIALS AND CONSTRUCTION
- RESULTS OF THE TEST PIT OR PITS IS INCLUDED ON THE DRAWINGS. EXISTING UTILITIES IN
- HIS OWN EXPENSE. THE CONTRACTOR SHALL NOTIFY THE FOLLOWING UTILITY COMPANIES OR AGENCIES AT LEAST FIVE WORKING DAYS BEFORE STARTING WORK SHOWN ON THESE PLANS:

AT&T	1-800-252-1133
BGE(CONSTRUCTION SERVICES)	410-850-4620
BGE(EMERGENCY)	410-685-1400
	410-313-4900
COLONIAL PIPELINE CO	410-795-1390
MISS UTILITY	1-800-257-7777
STATE HIGHWAY ADMINISTRATION	
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. 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 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. 12. MDE TRACKING NUMBER 201261183

#### 1. ALL WATER MAINS SHALL BE D.I.P. CLASS 54 UNLESS OTHERWISE NOTED. TOPS OF ALL WATER MAINS SHALL HAVE A MIMIMUM OF 3'-6" OF COVER UNLESS OTHERWISE

- 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
- AND SECTION 1005 OF THE STANDARD SPECIFICATIONS. 6. THE CONTRACTOR SHALL NOT OPERATE ANY WATER MAIN VALVES ON THE EXISTING WATER

SOIL AROUND THE FIRE HYDRANT SHALL BE COMPACTED IN ACCORDANCE WITH SECTION 1000

7. ALL SINGLE WATER HOUSE CONNECTIONS ARE TO BE 1½"WITH I" OUTSIDE METER SETTINGS.

- ALL SEWER MAINS SHALL BE D.I.P. OR P.V.C. UNLESS OTHERWISE NOTED. PARCMANAINSES HALLBEBE A-ONINSIDE DIAMETER UNLESS OTHERWISE NOTED.
- 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
- NOTE: EROSION AND SEDIMENT CONTROL SHALL BE PROVIDED IN ACCORDANCE WITH SECTION 108 OF THE HOWARD COUNTY DESIGN MANUAL VOLUME IV.

PLOGGER LLC

DEPARTMENT OF PUBLIC WORKS

R. JACOB HIKMAT

ENGINEER'S NAME NO ONAL EN

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL

DEVELOPER'S SIGNATURE

HOWARD COUNTY, MARYLAND

8/8/12

INDEX OF DRAWINGS

EROSION AND SEDIMENT CONTROL

FOR THIS CONTRACT IS PROVIDED

UNDER : F-11-059

I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION

WILL BE DONE ACCORDING TO THIS PLAN, AND THAT ANY

RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION

PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING

PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION

I HEREBY CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED

IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.

ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS AND THAT

BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT.

TITLE SHEET

**DESCRIPTION** 

FINAL WATER AND SEWER PLAN

FINAL WATER AND SEWER PROFILES

HOWARD COUNTY, MARYLAND

DATE: 9/3/12

F-11-059

DEPARTMENT OF PLANNING & ZONING

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.: 17942, EXPIRATION

PLAN REFERENCE NUMBERS:

SP-09-002, WP-10-105

MILDENBERG, BOENDER & ASSOC., INC.

(410) 997-0298 Fax

(410) 997-0296 Balt.



engineering MMM					
illustration <b>MMM</b>					TITLE SHEET
approval RJH					
project 2008-002					
date AUG. 2012	BY	NO.	REVISION	DATE	600' SCALE MAP NO. <u>47</u> BLOCK NO. <u>6</u>

GUILFORD OVERLOOK LOTS 1 - 15 & OPEN SPACE LOTS 16 - 9

CONTRACT NO. 24-4667-D TAX MAP 47 PARCEL 499 SIXTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND

1 of 3

AS SHOWN



SEWER HOUSE CONNECTION AS-BUILT

	LOCAT	TION TABLE	
LOT	ADDRESS	LOCATION DIMENSION 1	LOCATION DIMENSION 2
1	8803 RED SPRUCE WAY		
2	8807 RED SPRUCE WAY		
3	8811 RED SPRUCE WAY		
4	8815 RED SPRUCE WAY		
5	8819 RED SPRUCE WAY	·	
6	8823 RED SPRUCE WAY		
7	8827 RED SPRUCE WAY		
8	8827 RED SPRUCE WAY		
9	8715 PINE SAP LANE		
10	8719 PINE SAP LANE		
11	8723 PINE SAP LANE		
12	8722 PINE SAP LANE		
13	8718 PINE SAP LANE		
14	8714 PINE SAP LANE		
15	8812 RED SPRUCE WAY		

# WATER HOUSE CONNECTION AS-BUILT

	LOCA	TION TABLE	
LOT	ADDRESS	LOCATION DIMENSION 1	LOCATION DIMENSION 2
1	8803 RED SPRUCE WAY		
2	8807 RED SPRUCE WAY		
3	8811 RED SPRUCE WAY		
- 4	8815 RED SPRUCE WAY		
5	8819 RED SPRUCE WAY		
6	8823 RED SPRUCE WAY		. *
7	8827 RED SPRUCE WAY		
8	8827 RED SPRUCE WAY		
9	8715 PINE SAP LANE		
10	8719 PINE SAP LANE		
11	8723 PINE SAP LANE		
12	8722 PINE SAP LANE		
13	8718 PINE SAP LANE		
14	8714 PIŅE SAP LANE		
15	8812 RED SPRUCE WAY		

MH #	LOCATION OR NORTHING & EASTING	OFFSET
MH 1	N 538,078.343 E 1,364,795.014	
MH 2	USE-IN-COMMON DRIVEWAY STA: 2+73.71	17.26 L
MH 3	USE-IN-COMMON DRIVEWAY STA: 2+74.62	9.40 L
MH 4	USE-IN-COMMON DRIVEWAY STA: 3+53.07	5.40 L
MH 5	USE-IN-COMMON DRIVEWAY STA: 2+30.30	8.01 L
MH 6	USE-IN-COMMON DRIVEWAY STA: 0+70.71	8.15 L
MH 7	L.P. STA: 1+37.74	17.96 R
MH 8	RED SORUCE WAY STA: 1+35.07	5.00 L
WIII O	RED SOROCE WAT STA. 1755.07	5.00 L

8" WATE	R MAIN TABULATION CHART	
APPURTENANCE	LOCATION OR NORTHING & EASTING	OFFSET
6"X6" TS & V	PINE TREE DR. N 538,146.742 E 1,365,468.948	
6"X8" R	PINE TREE DR. N 538,114.379 E 1,365,463.114	
8"X6" FH TS & V	ROAD A STA: 2+69	5.00 R
1/8 H.B.	L.P. STA: 1+87.78	38.74 R
1/8 H.B.	L.P. STA: 1+81.64	19.65 R
1/8 H.B.	USE-IN-COMMON DRIVEWAY STA: 0+69.91	.2.94 R 🕝
1/8 H.B.	USE-IN-COMMON DRIVEWAY STA: 2+29.93	2.62 R
8"X6" FH TS & V	USE-IN-COMMON DRIVEWAY STA: 2+59.33	6.55_R
1/8 H.B.	USE-IN-COMMON DRIVEWAY STA: 2+73.61	4.06 R
1/16 H.B.	USE-IN-COMMON DRIVEWAY STA: 2+82.21	4.33 R
8" CAP AND BUTTRESS	USE-IN-COMMON DRIVEWAY STA: 3+58.92	4.64 R

OWNER/DEVELOPER

PLOGGER LLC 6800 DEERPATH RD. SUITE 100 ELKRIDGE , MARYLAND 21075 410-579-2442

HOWARD COUNTY, MARYLAND

HOWARD COUNTY, MARYLAND

MILDENBERG,
BOENDER & ASSOC., INC.



			1		
12	date AUG. 2012	BY	NO.	REVISION	DAT
	project <b>2008</b> -002				
, <b>1</b>	approval <b>RJH</b>				
	illustration <b>MMM</b>				
	engineering MMM		•	·	

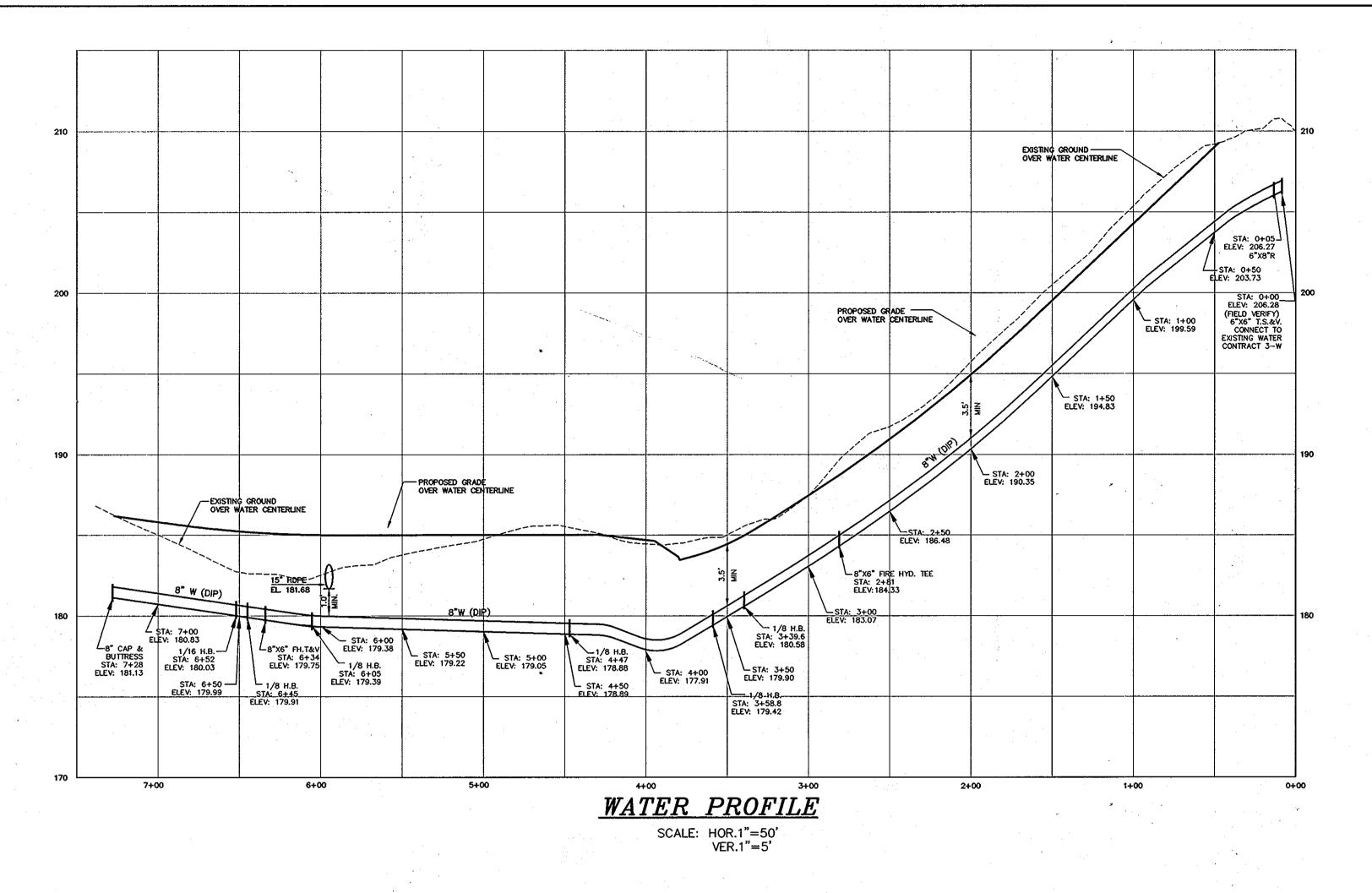
FINAL WATER AND SEWER PLAN

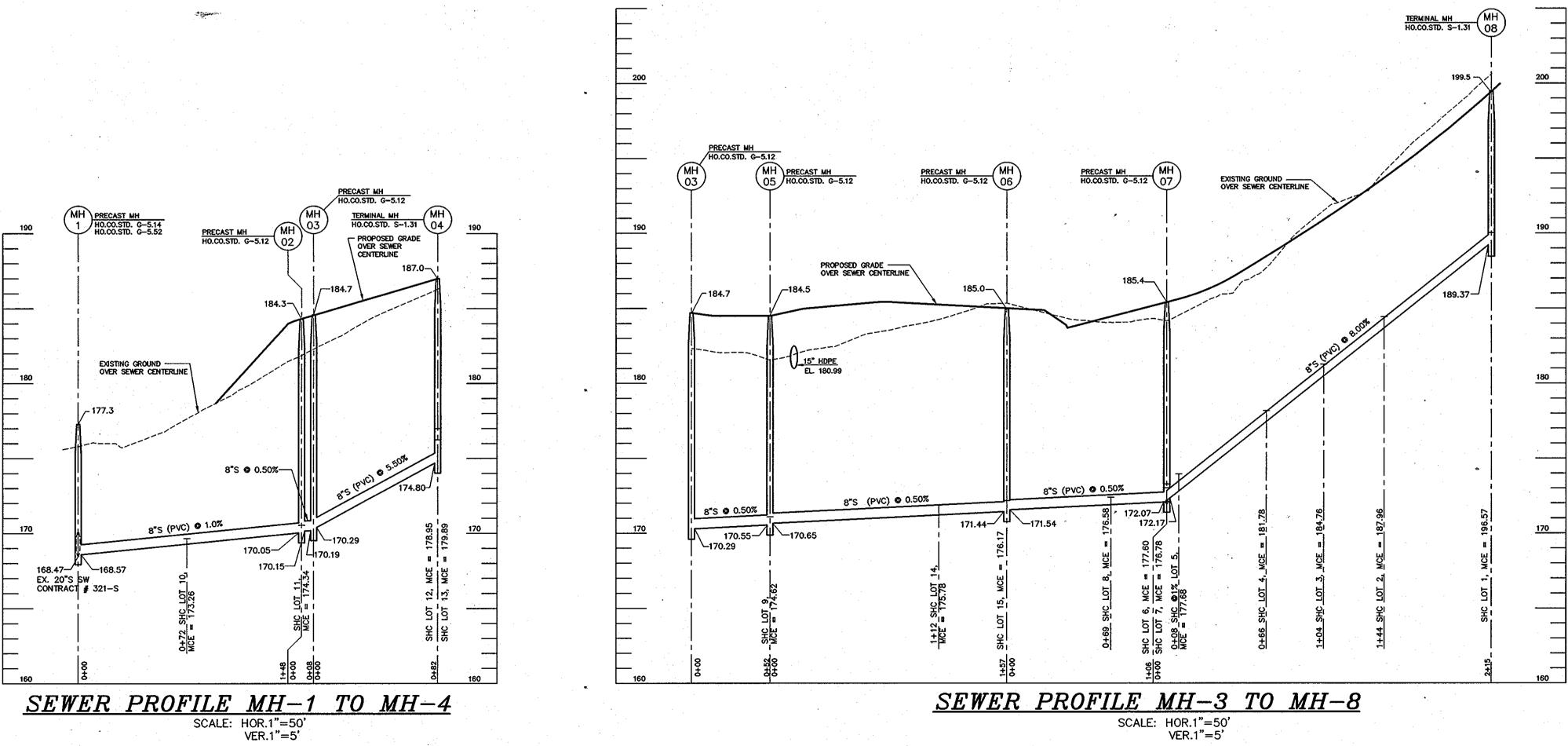
BLOCK NO.<u>6</u>

600' SCALE MAP NO. 47

GUILFORD OVERLOOK LOTS 1 - 15 & OPEN SPACE LOTS 16 - 9

CONTRACT NO. 24-4667-D TAX MAP 47 PARCEL 499 SECOND ELECTION DISTRICT HOWARD COUNTY, MARYLAND AS SHOWN





SE	WER HOU	JSE CONNE	CCTION TABLE
LOT #	% SLOPE	INV.@ R.O.W.	MIN. CELLAR ELEV.
1	2	189.94	193.64
2	2	184.26	187.96
3	2	181.06	184.76
4	1	178.28	181.78
5	. 1	173.98	177.68
6	2	173.30	177.60
7	2	173.02	176.78
8	2	172.38	176.58
9	2	171.08	174.62
10	2	169.66	173.26
11	2	170.54	174.34
12	2	175.33	178.95
13	2	175.53	179.89
14	. 2	171.86	175.78
15	2	172.17	176.17

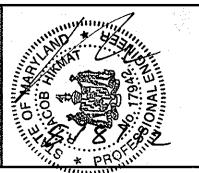
#### OWNER/DEVELOPER

PLOGGER LLC 6800 DEERPATH RD. SUITE 100 ELKRIDGE , MARYLAND 21075 410-579-2442

DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND

DEPARTMENT OF PLANNING & ZONING HOWARD COUNTY, MARYLAND

MILDENBERG, BOENDER & ASSOC., INC. 6800 Deerpath Rd., Suite 150, Elkridge, Maryland 21075 (410) 997-0296 Balt. (410) 997-0298 Fax.



	engineering				· · · · · · · · · · · · · · · · · · ·	
	MMM					
	illustration <b>MMM</b>			1	, · · ·	
	approval RJH					
	project				• • •	
d	2008-002					
	date AUG. 2012	BY	NO.		REVISION	DA

FINAL WATER AND SEWER PROFILES 600' SCALE MAP NO. 47 BLOCK NO. 6

GUILFORD OVERLOOK LOTS 1 - 15 & OPEN SPACE LOTS 16 - 9 CONTRACT NO. 24-4667-D TAX MAP 47 PARCEL 499

SECOND ELECTION DISTRICT HOWARD COUNTY, MARYLAND

AS SHOWN 3 of 3