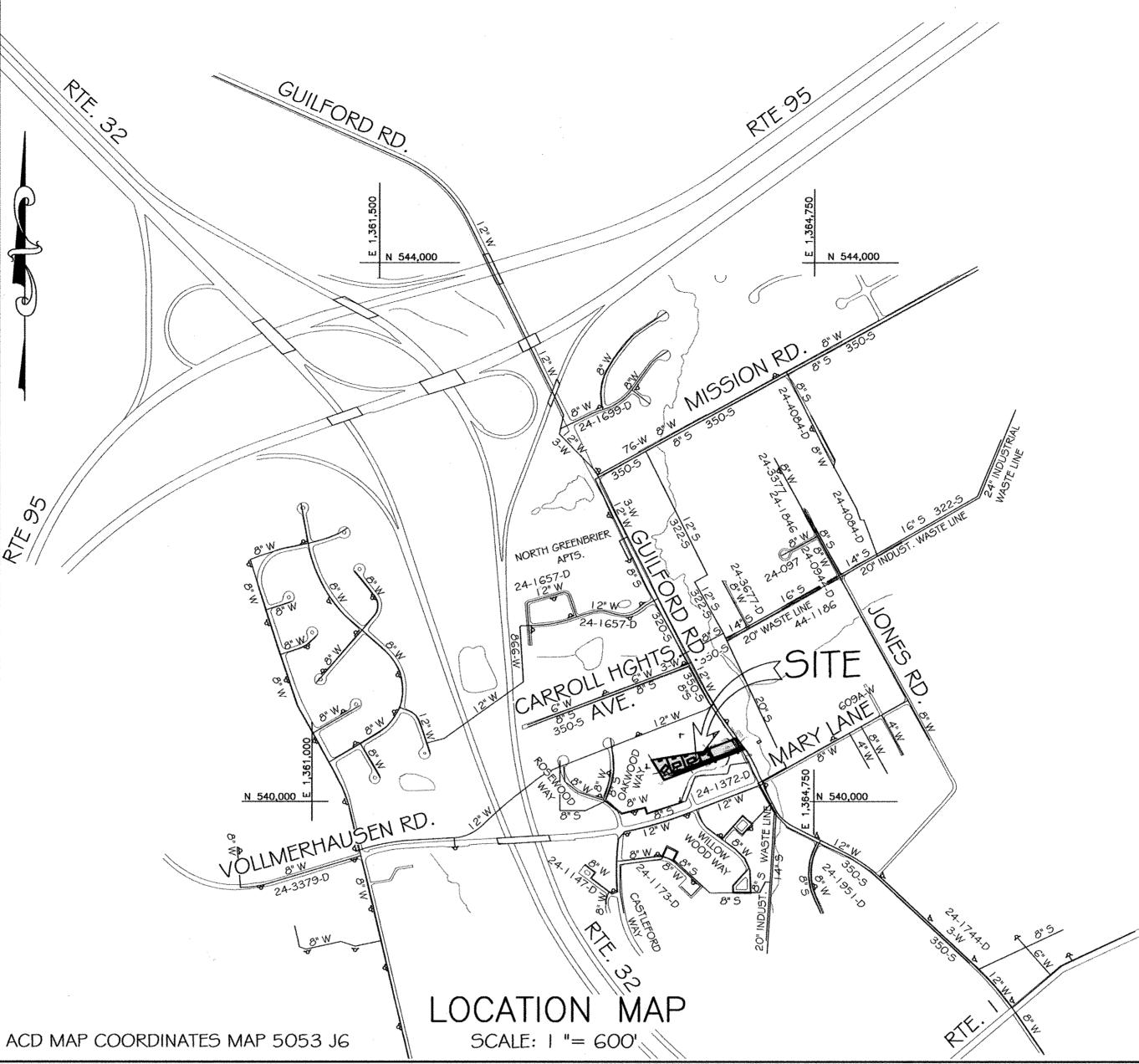
- 1. APPROXIMATE LOCATION OF EXISTING MAINS ARE SHOWN. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT EXISTING MAINS AND SERVICES AND MAINTAIN UNINTERRUPTED SERVICE. ANY DAMAGE INCURRED SHALL BE
- REPAIRED IMMEDIATELY TO THE SATISFACTION OF THE ENGINEER AT THE CONTRACTOR'S EXPENSE. TOPOGRAPHY FROM HOWARD COUNTY GIS DATA, SUPEMENTED BY FIELD-RUN LOCATIONS BY VANMAR ASSOCIATES, INC., JUNE 2010. CONTOUR INTERVAL IS 2' VERTICAL DATUM IS NAVD 88.
- 3. THE COORDINATES SHOWN ON THE DRAWINGS ARE BASED ON MARYLAND STATE COORDINATE SYSTEM, NAD 83/91 PROJECTED BY HOWARD COUNTY GEODETIC CONTROL STATIONS NO. 41C1 AND NO. 47CO.
- 4. ALL VERTICAL CONTROLS ARE BASED ON NAVD 88 AND NAD 83 HORIZONTAL CONTROLS.
- 5. ALL PIPE ELEVATIONS SHOWN ARE INVERT ELEVATIONS UNLESS OTHERWISE NOTED ON THE PLANS.
- 6. 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 THE 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 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, IF REQUIRED.
- FOX 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.
- 8. WHERE TEST PITS HAVE BEEN MADE ON EXISTING UTILITIES, THEY ARE NOTED BY THE SYMBOL AT THE LOCATIONS OF THE TEST PIT. A NOTE OR NOTES CONTAINING THE RESULTS OF THE TEXT PIT OR PITS IS INCLUDED ON THE DRAWING. 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:
 - A. AT\$T: (800) 252-1133
 - B. BGE (CONTRACTOR SERVICES): (410) 850-4620
 - C. BGE (EMERGENCY): (410) 685-1400 D. HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
 - BUREAU OF UTILITIES: (410) 313-4900
 - E. COLONIAL PIPELINE CO.: (410) 795-1390
 - F. MISS UTILITY: (800) 257-7777 G. STATE HIGHWAY ADMINISTRATION: (410) 531-5533
 - H. COLUMBIA GAS TRANSMISSION CORPORATION: (301) 762-6308
- 1. VERIZON: (800) 743-0033 / (410) 224-9210
- 10. TREES AND SHRUBS ARE TO BE PROTECTED FROM DAMAGE TO MAXIMUM EXTENT. TREES AND SHRUBS WITHIN THE CONSTRUCTION AREA ARE NOT TO BE REMOVED OR DAMAGED BY THE CONTRACTOR.
- II. 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. 12. THE CONTRACTOR SHALL NOTIFY THE BUREAU OF HIGHWAYS, HOWARD COUNTY, AT 1 (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(A) OF THE HOWARD COUNTY CODE.
- PART II: WATER
- 1. ALL WATER MAINS TO BE D.I.P. CLASS 54 UNLESS OTHERWISE NOTED.
- 2. TOPS OF ALL WATER MAINS TO HAVE A MINIMUM OF 3'-6" COVER UNLESS OTHERWISE NOTED.
- 3. VALVES ADJACENT TO THE TEES SHALL BE STRAPPED TO THE TEES.
- 4. ALL FITTINGS SHALL BE BUTTED OR ANCHORED WITH CONCRETE IN ACCORDANCE WITH THE STANDARD DETAILS UNLESS OTHERWISE PROVIDED FOR ON THE DRAWINGS.
- 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 DETAILS. SOIL AROUND THE FIRE HYDRANT SHALL BE COMPACTED WITH SECTION 1000 AND 1005 OF THE STANDARD SPECIFICATIONS.
- 6. THE CONTRACTOR SHALL NOT OPERATE ANY WATER MAIN VALVES ON THE EXISTING WATER SYSTEM. 7. ALL WATER HOUSE CONNECTIONS SHALL BE 1-1/2" WHO WITH A 1 " OUTSIDE METER SETTING.
- 1. ALL SEWER MAINS TO BE D.I.P. OR P.V.C. UNLESS OTHERWISE NOTED.
- 2. ALL MANHOLES SHALL BE 4'-O" 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 WT IN PLAN AND PROFILE SHALL HAVE WATERTIGHT FRAME AND COVERS; STANDARD DETAIL G5.52. WHERE WATERTIGHT MANHOLE FRAME AND COVER IS USED, SET TOP OF FRAME 1'-6" ABOVE FINISHED GRADE UNLESS OTHERWISE NOTED ON THESE DRAWINGS.
- HOUSE(S) WITH THE SYMBOL "C.N.S." INDICATES THAT CELLAR CANNOT BE SERVICED.
- 7. THE CONTRACTOR SHALL PROVIDE A JOINT IN ALL SEWER MAINS WITHIN 2'-0" OF EXTERIOR MANHOLE WALL
- 8. THE SEWER HOUSE CONNECTIONS (SHC) SHALL BE 4".

TYPE OF BUILDING: NUMBER OF LOTS / PARCELS: 4 (3 BUILDABLE / I OPEN SPACE) NUMBER OF WATER HOUSE CONNECTIONS: (3 NEW) NUMBER OF SEWER HOUSE CONNECTIONS: (3 NEW) LITTLE PATUXENT RIVER DRAINAGE AREA: LITTLE PATUXENT WATER RECLAIMATION PLANT TREATMENT PLANT:



WATER ZONE-550 TEST GRADIENT-700

WATER AND SEWER PLAN

LOTS 1 AND 3-5 AND OPEN SPACE LOT 2

TAX MAP 47, GRID 6, PARCEL 604 6th ELECTION DISTRICT HOWARD COUNTY, MARYLAND CONTRACT NO. 24-4611-D

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. 18417, EXPIRATION DATE /2/14/18 RONALD E. THOMPSON, P.E.

INDEX OF SHEETS

PRELIMINARY WATER AND SEWER PLAN

DESCRIPTION

BENCH MARKS

I # 47C I DISK SET ON TOP OF CONCRETE

2 # 47CO DISK SET ON TOP OF CONCRETE

PRELIMINARY WATER AND SEWER PROFILES AND DETAILS

NO.

COVER SHEET

MONUMENT.

EL = 260.96

MONUMENT

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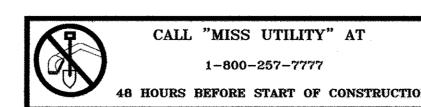
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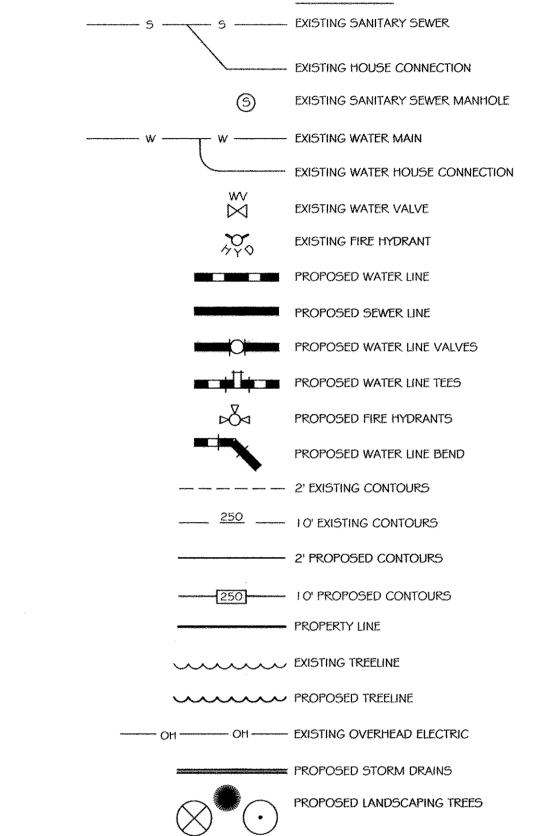
E 1362460.5328

E 1362608.4439

OWNER / DEVELOPER: GUILD DEVELOPMENT, LLC 4609 LEARNED SAGE COURT ELLICOTT CITY, MD. 21042 410-884-1929



ACD MAP COORDINATES MAP 5053 JG LEGEND



QUANTITLO				
			AS-BUILT	
ITEM	QUANTITIES ESTIMATED	QUANTITIES	TYPE	MANUFACTURER / SUPPLIER
12" X 8" TAPPING SLEEVE & VALVE TEE	I EA.	ì		MUELLER COMPANY
8" WATER - D.I.P.	341 L.F.	34-3	CL 54	W.S. PIPE
8" - 1/32 HORIZ, BEND	I EA.	1		STAR PIPE
8" -1/32 VERT. BEND	3 EA.	3		STAR PIPE
FIRE HYDRANT	I EA.	ŧ	Accordance (Assessment Accordance printers (Assessment Accordance printers (Assessment Accordance printers (As	MUELLER COMPANY
8" X 6" FHT	I EA.	1,	in the state of th	STAR PIPE
8" X 4" REDUCER	I EA.	1	ASSESSMENT CONTRACTOR OF THE PROPERTY OF THE P	STAR PIPE
6" WATER - D.L.P.	15 L.F.	1¢,	CL 54	U.S. PIPE
4" WATER - D.I.P.	179 L.F.	178	CL 54	US.PIPE
4" CAP # BUTTRESS	I EA.			STAR PIPE
1.5" WHC	68 L.F.	65		CAMBRIDGE LEE
I" METER VAULT FOR OUTSIDE METERING	3 EA.	3	AMARIAN PARTICIPATION PROPERTY.	ROMAC INPUSTRIES
TYPE "A" DROP CONNECTION	I EA.	1	S 12R-35	PIAMOND PIPE
SEWER CLEANOUTS	3 EA.	2	plane a management	HORN CONCRETE
4' SEWER MANHOLE	2 EA.	2		CONTRACTORS PRECASE
4" SEWER HOUSE CONNECTION	68 L.F.	50	SDR-35	DIAMOND PIPE
8" SEWER (SCHEDULE 40 PVC)	163 L.F.	. 160	5 PR-35	PIAMOND PIPE
				CHECK BOX:
NAME OF UTILITY CONTRACTOR:	JAAC	ONSTRUCTION	s desir	SURVEY & DRAFTING DIVISION AS-BUILT DATE:

QUANTITIES

SEDIMENT CONTROL MEASURES FOR THIS CONTRACT WILL BE IMPLEMENTED IN ACCORDANCE WITH SECTION 308 OF THE STANDARD SPECIFICATION AND THE APPROVED FINAL PLAN, F 09-064.

THIS DEVELOPMENT PLAN (F-09-064) IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT

DEPARTMENT OF PUBLIC WORKS

DEPARTMENT OF PLANNING AND ZONING

CHIEF, BUREAU OF UTILITIES





VANMAR ASSOCIATES, INC. **Engineers Surveyors Planners** (301) 829-2890 (301) 831-5015 (410) 549-2751 ranmar.com Fax (301) 831-5603 @Copyright, Latest Date Shown

REVISION

TITLE SHEET

600 SCALE MAP NO. 47. BLOCK 6

GUILFORD LANDING

CONTRACT NO. 24-4611-D

LOTS | \$ 3-5 AND OPEN SPACE LOT 2, A RESUBDIVISION OF LOT G, NATHANIEL C. BARNES SUBDIVISION (PLAT BOOK 3, FOLIO 24) AND LOT B, ISABELLA CORMAN SUBDIVISION (LIBER 577, FOLIO 42)

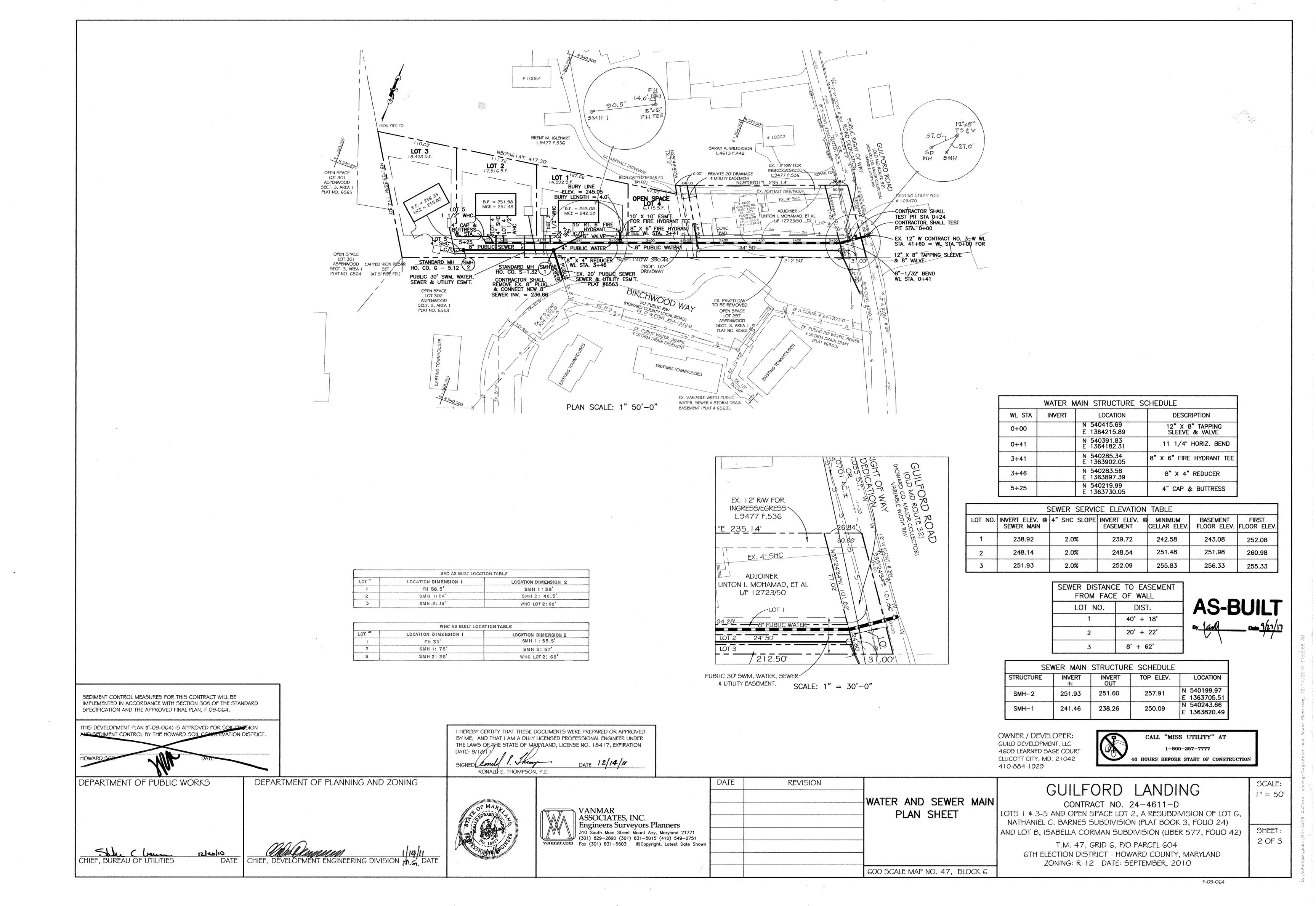
T.M. 47, GRID 6, P/O PARCEL 604 6TH ELECTION DISTRICT - HOWARD COUNTY, MARYLAND ZONING: R-12 DATE: SEPTEMBER, 2010

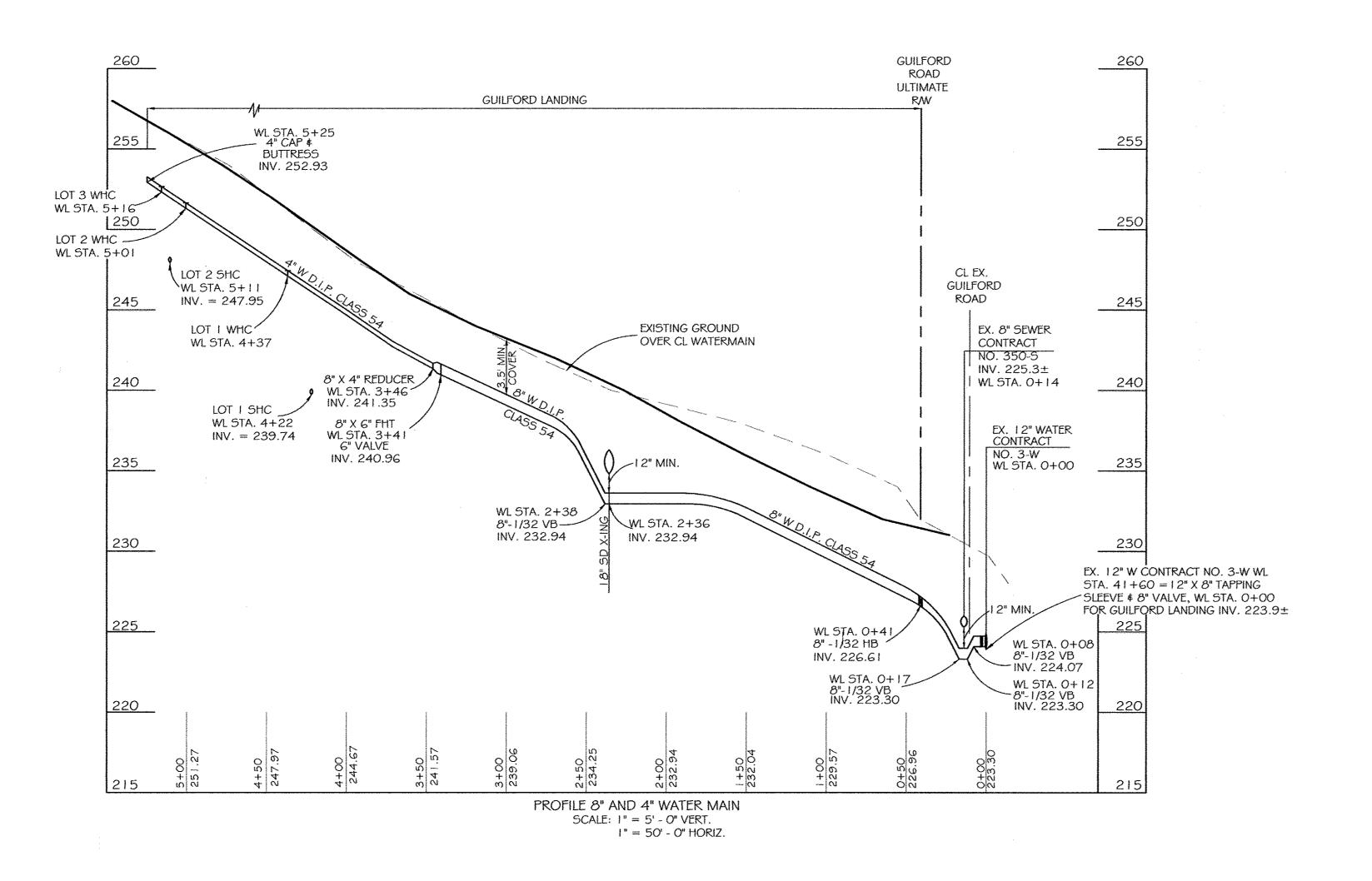
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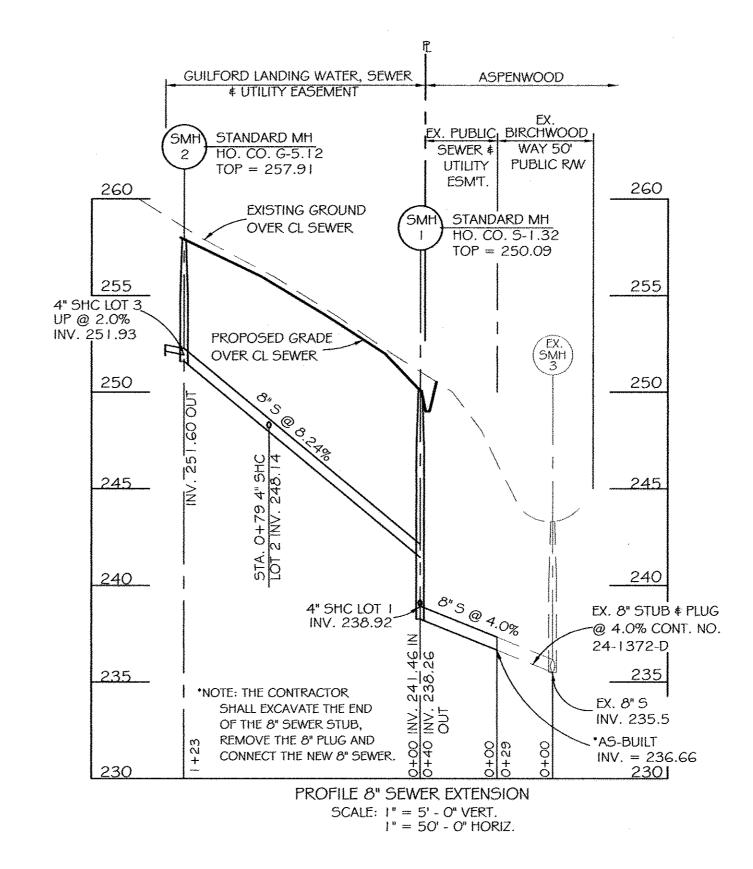
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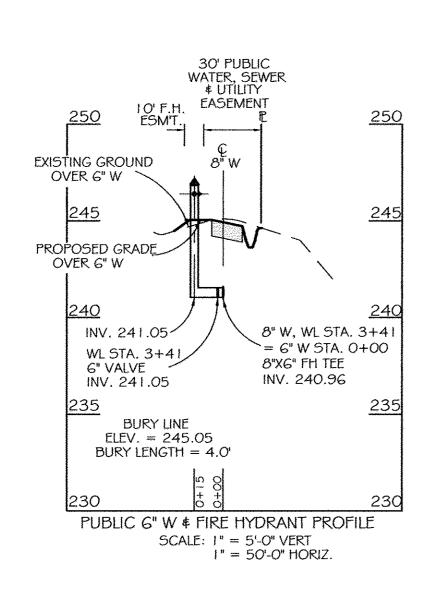
AS SHOWN

F-09-064

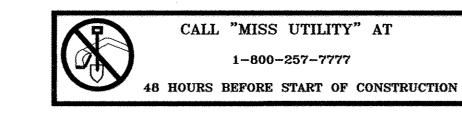








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REVISION

OWNER / DEVELOPER: GUILD DEVELOPMENT, LLC 4609 LEARNED SAGE COURT ELLICOTT CITY, MD. 21042 410-884-1929

DEPARTMENT OF PUBLIC WORKS DEPARTMENT OF PLANNING AND ZONING 12/20/10 CHIEF, BUREAU OF UTILITIES

VANMAR ASSOCIATES, INC. **Engineers Surveyors Planners** 310 South Main Street Mount Airy, Maryland 21771 (301) 829–2890 (301) 831–5015 (410) 549–2751 vanmar.com Fax (301) 831–5603 ©Copyright, Latest Date Shown WATER AND SEWER MAIN PROFILE SHEET

600 SCALE MAP NO. 47, BLOCK 6

GUILFORD LANDING CONTRACT NO. 24-4611-D LOTS | \$ 3-5 AND OPEN SPACE LOT 2, A RESUBDIVISION OF LOT G, NATHANIEL C. BARNES SUBDIVISION (PLAT BOOK 3, FOLIO 24) AND LOT B, ISABELLA CORMAN SUBDIVISION (LIBER 577, FOLIO 42)

T.M. 47, GRID 6, P/O PARCEL 604 6TH ELECTION DISTRICT - HOWARD COUNTY, MARYLAND ZONING: R-12 DATE: SEPTEMBER, 2010

F-09-064

AS SHOWN

SCALE:

SHEET:

3 OF 3