

GENERAL NOTES

PART I

- 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.
- THE TOPOGRAPHY SHOWN HEREON IS BASED ON HOWARD COUNTY TOPOGRAPHY AND FIELD RUN TOPOGRAPHY PREPARED BY ROBERT H. VOGEL ENGINEERING, INC., DATED AUGUST 2004.
- 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 388A AND 388B.
ALL VERTICAL CONTROLS ARE BASED ON (NAVD' 88). VERTICAL CONTROLS PROVIDED ON DRAWINGS ARE:
GEODETIC SURVEY CONTROL 388A (N 562553.353', E 1,390967.866') BRASS DISC SET ON TOP OF A CONCRETE MONUMENT, LOCATED AT EAST SIDE OF ROUTE 1, 0.3 MILES NORTH OF MONTGOMERY ROAD 81.7' NORTH OF FH & 78.8' SOUTH OF STORMDRAIN INLET.
GEODETIC SURVEY CONTROL 388B (N 564007.678', E 1,393649.835') BRASS DISC SET ON TOP OF A CONCRETE MONUMENT, LOCATED EAST SIDE OF ROUTE 1, NORTH OF OLD WASHINGTON BLVD, 9.96' AWAY FROM CURB, AND 9.34' AWAY OF GUARDRAIL.
- 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 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.
- 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 WORKING DAYS BEFORE STARTING WORK SHOWN THESE PLANS:
AT&T _____ 1-800-252-1133
BGE (CONSTRUCTION SERVICES) _____ 410-637-8713
BGE (EMERGENCY) _____ 410-685-0123
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
- 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 THE LINE OF EXCAVATION. PAYMENT FOR SUCH REMOVAL SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE CONSTRUCTION OF THE MAIN.
- 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(g) OF THE HOWARD COUNTY CODE.

PART II - WATER

- ALL WATER MAINS SHALL BE ~~4" P.V.C.~~ ^{PVC C900} 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 1005 OF THE STANDARD SPECIFICATIONS.
- THE CONTRACTOR SHALL NOT OPERATE ANY WATER MAIN VALVES ON THE EXISTING WATER SYSTEM.
- FOR PVC WATER MAINS, ALL RECORDS FOR THE QUALITY CONTROL AND QUALIFICATION TEST REQUIREMENTS NOTED IN SECTION 5.1 OF THE ANWA 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 TEST RECORDS RECEIVED.
- 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 HARNESSSES. 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 18" WALLS ARE FOR BRICK MANHOLES ONLY.
- MANHOLES DESIGNATED W.T. IN PLAN AND PROFILE SHALL HAVE WATERTIGHT FRAME AND COVER, STANDARD DETAIL 65.52, 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 CELLAR CANNOT BE SERVED.

SEDIMENT CONTROL MEASURES WILL BE IMPLEMENTED IN ACCORDANCE WITH SECTION 219 OF THE SPECIFICATIONS AND WITH FINAL PLAN F-10-032.

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

John R. Hunter
SOIL CONSERVATION DISTRICT
DATE: 11/2/10

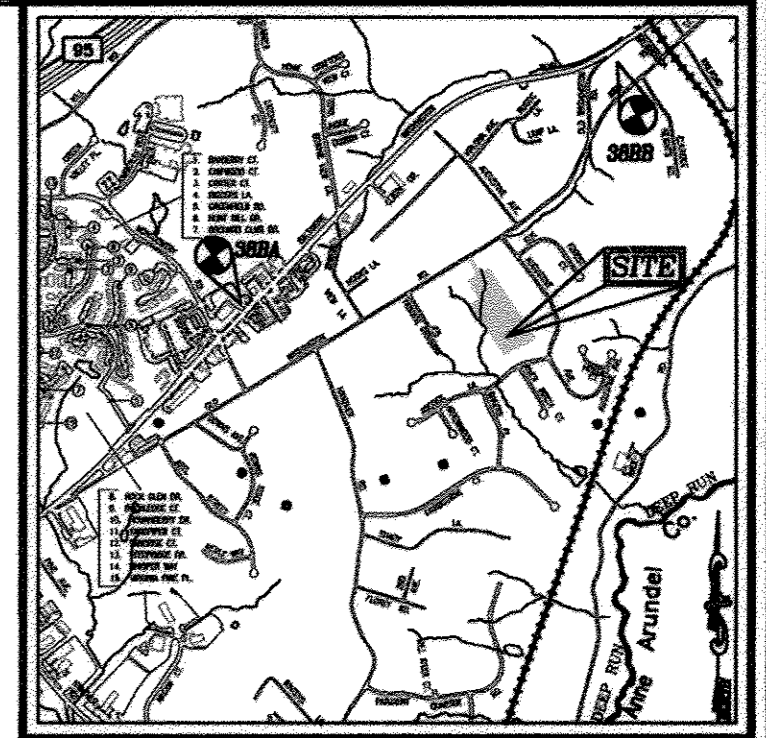
FINAL WATER & SEWER PLAN

PECORARO PROPERTY

CONTACT NO. 14-4606-D

BENCHMARKS

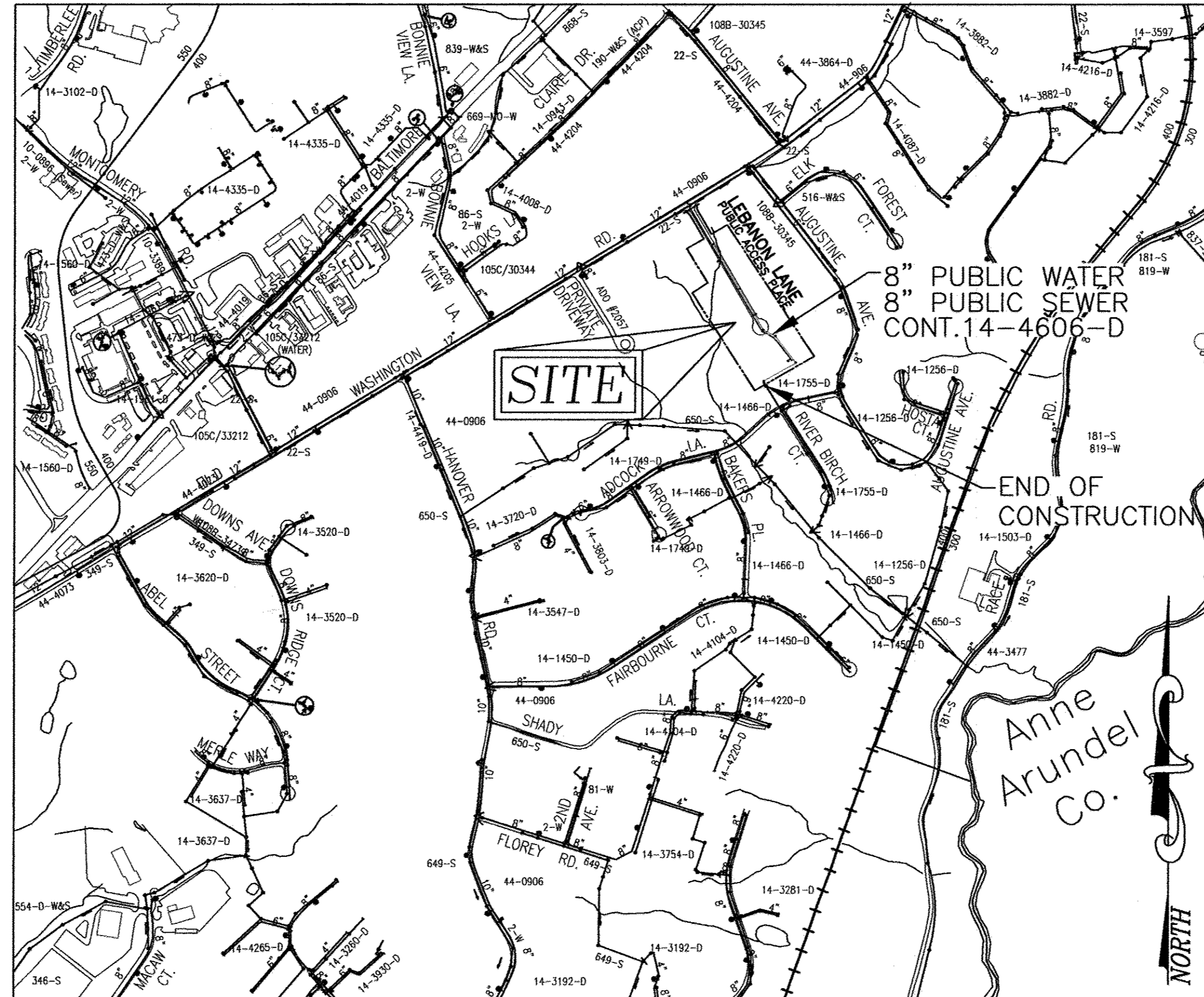
COORDINATES BASED ON NAD '83, MARYLAND COORDINATE SYSTEM AS PROJECTED BY HOWARD COUNTY GEODETIC CONTROL STATIONS 388A, 388B
388A N 562553.353' E 1,390967.866' ELEV. 166.124'
388B N 564007.678' E 1,393649.835' ELEV. 63.607'



VICINITY MAP
SCALE: 1"=2000'
ADC MAP COORDINATE= 17 J7

LEGEND

- EXISTING TREELINE
- PROPOSED TREELINE
- EXISTING WATER MAIN
- PROPOSED WATER MAIN
- FIRE HYDRANT
- PROPOSED VALVE
- PROPOSED TEE
- PROPOSED STORM DRAIN
- EXISTING STORM DRAIN
- PROPOSED SEWER
- EXISTING SEWER
- SEWER MANHOLE
- WATER HOUSE CONNECTION
- SEWER HOUSE CONNECTION
- PROPOSED SIGN
- PROPOSED LIGHT
- PROPOSED GUARDRAIL



WATER CODE: 400
TEST GRADIENT: 550

LOCATION MAP
SCALE: 1"=600'

Type of Building :	SINGLE FAMILY DETACHED
No. of Lots/Parcels :	21
No. of single Water House Connections :	20
No. of twin Water House Connections :	-
No. of Sewer House Connections :	20
No. of twin Sewer House Connections :	-
Drainage Area :	PATAPSCO RIVER

QUANTITIES

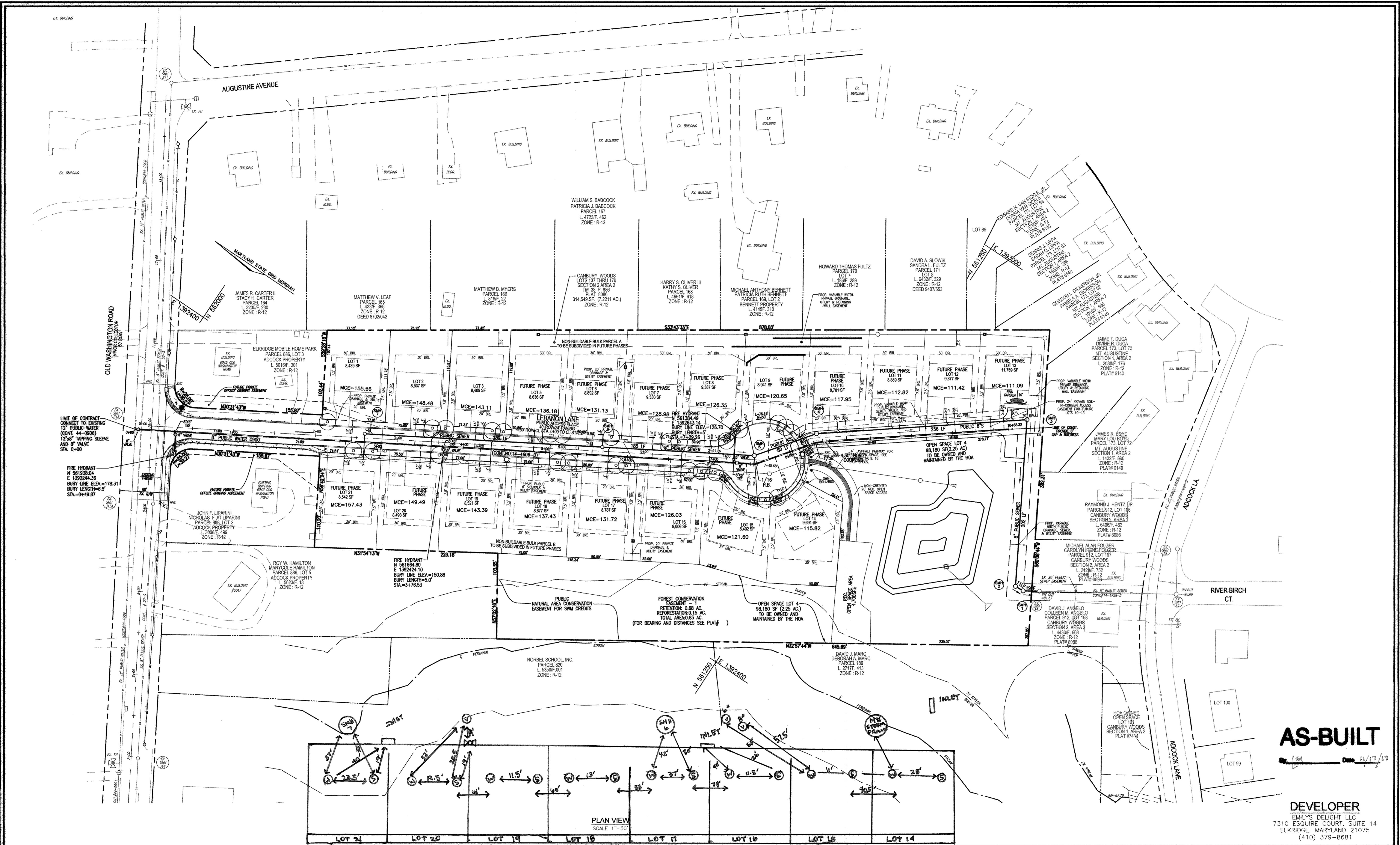
NAME OF UTILITY CONTRACTOR :		SURVEY AND DRAFTING DIVISION AS-BUILT DATE :	
ITEMS	QUANTITIES ESTIMATED	AS-BUILT	
		QUANTITIES	MANUFACTURER/SUPPLIER
WATER			
6" WATER C-900 PVC	1,008 LF	1,080 O.L.P.	C-900 DR-18 J.M. ENGLE
1 1/2" WIC	543 LF	550	K. MUELLER
12" x 8" TAPPING SLEEVE	1 EA	1.0	FAST XXX FORD METER BOX CO.
8" x 6" TEE	3 EA	3.0	D.I.R. C150 SIGMA CORP.
8" VALVE	2 EA	2.0	KS-EM GATE KENNEDY VALVE
6" VALVE	3 EA	3.0	KS-EM GATE " "
FIRE HYDRANT	3 EA	3.0	GUARDIAN K&B " "
8" HOUSE COUPLING	1 EA	1.0	DIP C-150 SIGMA CORP.
8" - 1/16" HORIZ. BEND	1 EA	1.0	" "
8" - 1/32" HORIZ. BEND	1 EA	1.0	" "
8" CAP AND BUTTRISS	1 EA	1.0	" "
8" VERTICAL COUPLING	1 EA	1.0	C-900 NORTH AMERICAN
6" VERTICAL COUPLING	7 EA	7.0	C-900 " "
8" - 1/32" VERT. BEND	72 LF	72.0	SIGMA CORP.
SEWER			
8" SEWER	1,042 LF	1,050	SDR-35 NORTH AMERICAN PIPE CORP.
MANHOLES	7 EA	7.0 EACH	PRE-CAST FRED. RICH PRECAST CONC. INC.
4" SHC	497 LF	400	SDR-35 NORTH AMERICAN PIPE CORP.

AS-BUILT

DATE: 11/17/17

DEVELOPER
EMILYS DELIGHT LLC,
7310 ESQUIRE COURT, SUITE 14
ELKRDGE, MARYLAND 21075
(410) 379-8001

DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND <i>John R. Hunter</i> CHIEF, BUREAU OF UTILITIES DATE: 11/2/10	DEPARTMENT OF PLANNING & ZONING HOWARD COUNTY, MARYLAND <i>John R. Hunter</i> CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE: 11/2/10	<p>ROBERT H. VOGEL ENGINEERING, INC. ENGINEERS • SURVEYORS • PLANNERS 8407 MAIN STREET ELICOTT CITY, MD 21043 TEL: 410.461.7666 FAX: 410.461.8961</p>	PROFESSIONAL CERTIFICATE 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. 16193, EXPIRATION DATE: 09-27-2012 DRN: KG DES: RHW CHK: RHW DATE: OCTOBER 2010	2 AS BUILT 1 REVISE PLAN DUE TO NEW SITE LAYOUT AND GRADING NO. REVISION DATE	FINAL WATER & SEWER PLAN COVER SHEET CONTRACT 14-4606-D 600' SCALE MAP NO. 38 BLOCK NO. 9	PECORARO PROPERTY PARCEL P/O 886 HOWARD COUNTY, MARYLAND	SHEET 1 OF 4
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AS-BUILT

DATE: 11/17/17

DEVELOPER
 EMILYS DELIGHT LLC
 7310 ESCOURIE COURT, SUITE 14
 ELKBRIDGE, MARYLAND 21075
 (410) 379-8681

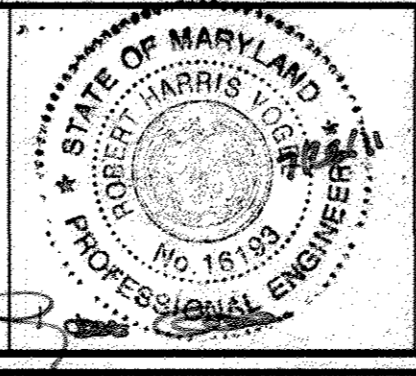
DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND

Signature
 CHIEF, BUREAU OF UTILITIES

DEPARTMENT OF PLANNING & ZONING
 HOWARD COUNTY, MARYLAND

Signature
 CHIEF, DEVELOPMENT ENGINEERING DIVISION

ROBERT H. VOGEL ENGINEERING, INC.
 ENGINEERS • SURVEYORS • PLANNERS
 8407 MAIN STREET TEL: 410.461.7666
 ELLICOTT CITY, MD 21043 FAX: 410.461.8961



PROFESSIONAL CERTIFICATE
 I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DAILY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 161193 EXPIRATION DATE: 03-27-2012

DRN: JMR DES: RHV/JCO
 CHK: RHV
 DATE: OCTOBER 2010

NO.	REVISION	DATE
2	AS BUILT	10/1/13
1	REVISE WATER AND SEWER DUE TO NEW SITE LAYOUT AND GRADING.	02/15/11

FINAL WATER & SEWER PLAN LAYOUT VIEW
CONTRACT 14-4606-D

600' SCALE MAP NO. 38 BLOCK NO. 9

PECORARO PROPERTY

TAX MAP 38 GRID 9
 1ST ELECTION DISTRICT

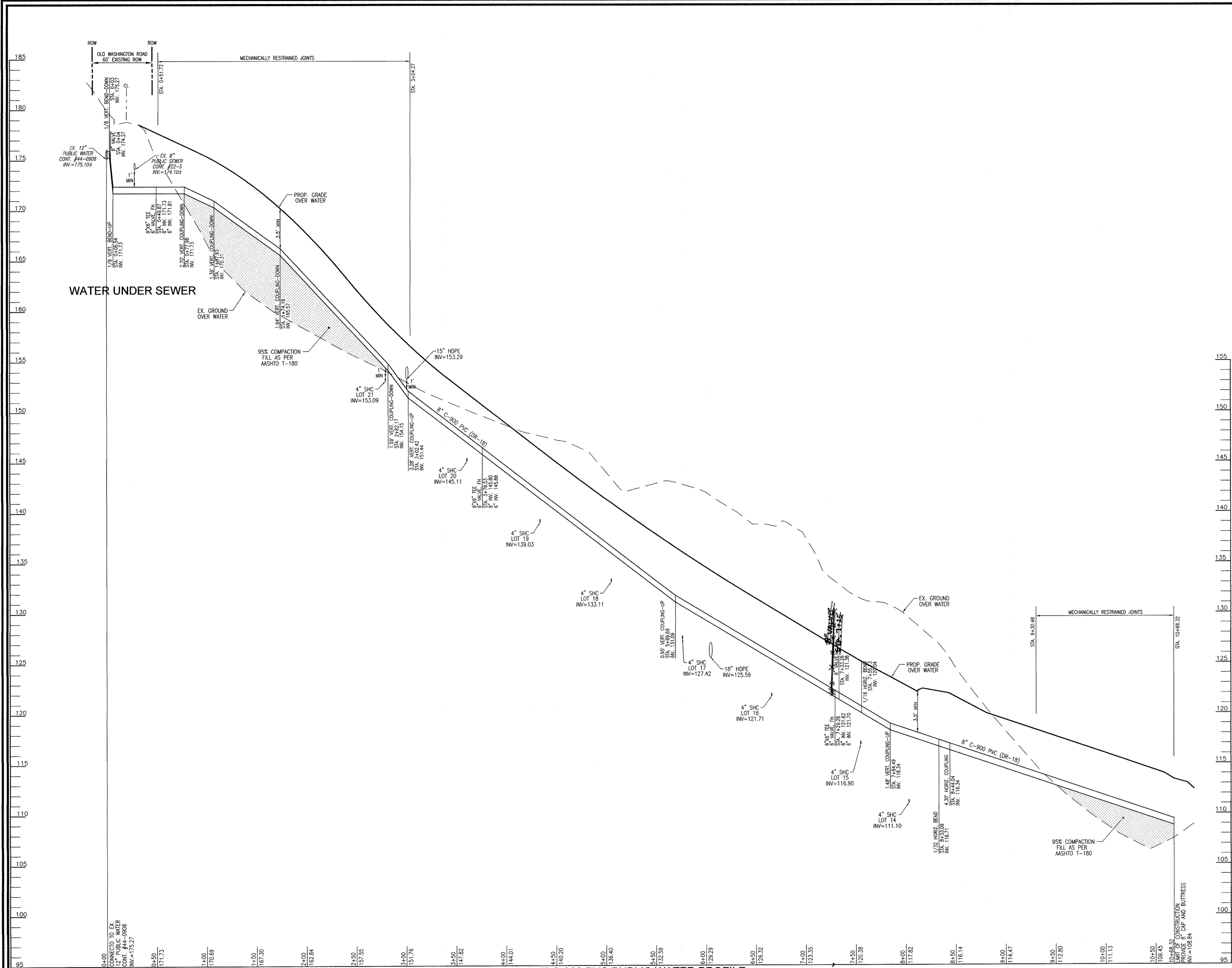
PARCEL P/O 886
 HOWARD COUNTY, MARYLAND

SCALE AS SHOWN
 SHEET 2 OF 4

WATER HOUSE CONNECTION AS-BUILT LOCATION TABLE

LOT NUMBER	ADDRESS	LOCATION DIMENSION 1	LOCATION DIMENSION 2
1	LEBANON LANE	LOT 1 SHC 22.0 FT	SMH 7 21.0 FT
2	LEBANON LANE	LOT 2 SHC 10.0 FT	FRV 48.0 FT
3	LEBANON LANE	LOT 3 SHC 10.0 FT	LOT 3 SHC 41.0 FT
4	LEBANON LANE	LOT 4 SHC 61.0 FT	LOT 4 SHC 10.0 FT
5	LEBANON LANE	LOT 5 SHC 62.0 FT	LOT 5 SHC 11.0 FT
6	LEBANON LANE	LOT 6 SHC 62.0 FT	LOT 6 SHC 10.0 FT
7	LEBANON LANE	LOT 7 SHC 60.0 FT	LOT 7 SHC 9.0 FT
8	LEBANON LANE	LOT 8 SHC 20.0 FT	LOT 8 SHC 81.0 FT
9	LEBANON LANE	LOT 9 SHC 10.0 FT	LOT 9 SHC 55.0 FT
10	LEBANON LANE	LOT 10 SHC 10.0 FT	LOT 10 SHC 58.0 FT
11	LEBANON LANE	LOT 11 SHC 11.0 FT	LOT 11 SHC 57.0 FT
12	LEBANON LANE	LOT 12 SHC 57.0 FT	LOT 12 SHC 22.0 FT
13	LEBANON LANE	LOT 13 SHC 22.0 FT	SMH 8 22.0 FT
14	LEBANON LANE	LOT 14 SHC 11.0 FT	LOT 14 SHC 57.5 FT
15	LEBANON LANE	LOT 15 SHC 11.5 FT	LOT 15 SHC 42.0 FT
16	LEBANON LANE	LOT 16 SHC 27.0 FT	LOT 16 SHC 60.0 FT
17	LEBANON LANE	LOT 17 SHC 12.5 FT	LOT 17 SHC 61.0 FT
18	LEBANON LANE	LOT 18 SHC 12.5 FT	LOT 18 SHC 25.0 FT
19	LEBANON LANE	LOT 19 SHC 22.5 FT	LOT 19 SHC 37.0 FT
20	LEBANON LANE	LOT 20 SHC 22.5 FT	LOT 20 SHC 37.0 FT
21	LEBANON LANE	LOT 21 SHC 22.5 FT	LOT 21 SHC 37.0 FT

STA.	FITTING
0+00.00	12"x8" TAPPING SLEEVE
0+03.00	8" 1/8" VERTICAL BEND-DOWN
0+04.00	8" VALVE
0+05.54	8" 1/8" VERTICAL BEND-UP
0+49.87	8"x6" TEE, 6" VALVE, 6" FH
0+77.98	8" VERTICAL COUPLING - 2.70' DOWN
1+07.93	8" VERTICAL COUPLING - 1.39' DOWN
1+74.18	8" VERTICAL COUPLING - 1.94' DOWN
2+82.17	8" VERTICAL COUPLING - 1.59' DOWN
3+02.42	8" VERTICAL COUPLING - 3.28' UP
3+75.53	8"x6" TEE, 6" VALVE, 6" FH
5+69.69	8" VERTICAL COUPLING - 0.95' UP
7+29.26	8"x6" TEE, 6" VALVE, 6" FH
7+33.26	8" VALVE
7+55.73	8" 1/16" HORIZONTAL BEND
7+84.49	8" VERTICAL COUPLING - 1.48' UP
8+33.09	8" 1/32" HORIZONTAL BEND
8+44.04	8" HORIZONTAL COUPLING - 4.30'
10+68.32	8" CAP AND BUTTRISS



8" C-900 PVC PUBLIC WATER PROFILE
 SCALE: HORIZONTAL 1"=50'
 VERTICAL 1"=5'

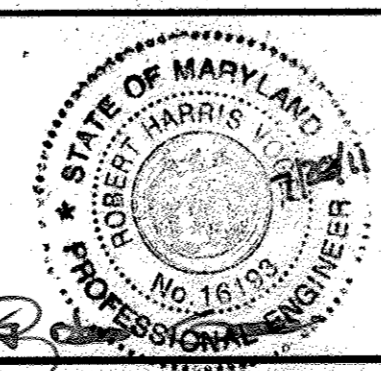
AS-BUILT
 [Signature]

DEVELOPER
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DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND
 [Signature]
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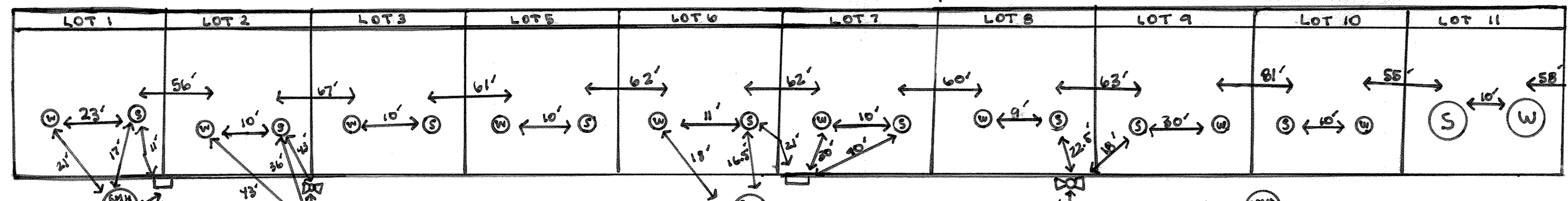
ROBERT H. VOGEL ENGINEERING, INC.
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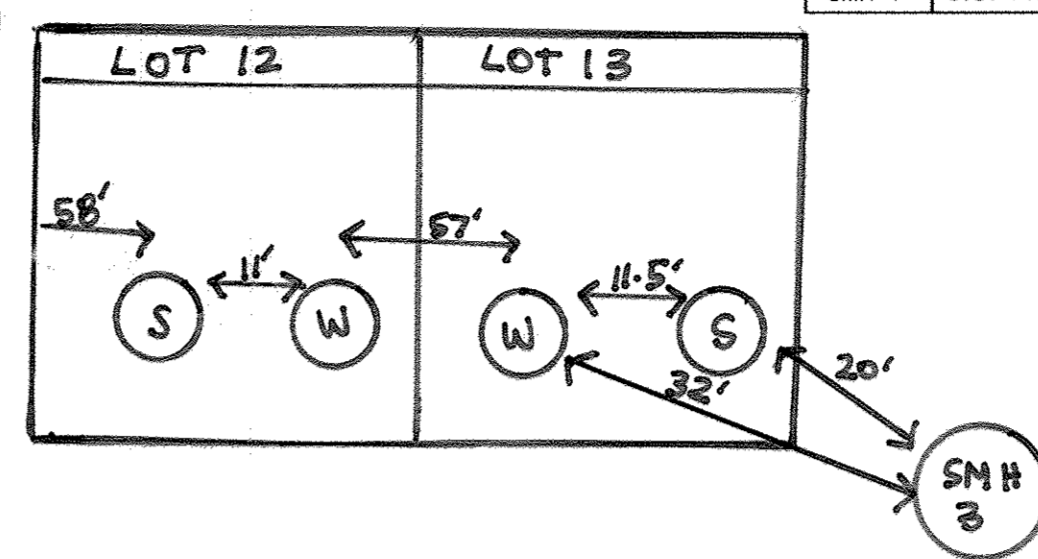
PROFESSIONAL CERTIFICATE	1	AS BUILT	10/1/13
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DRN: JMR DES: RHW/JCO	NO.	REVISION	DATE
CHK: RHW			
DATE: OCTOBER 2010			

FINAL WATER & SEWER PLAN
WATER PROFILE
CONTRACT 14-4606-D

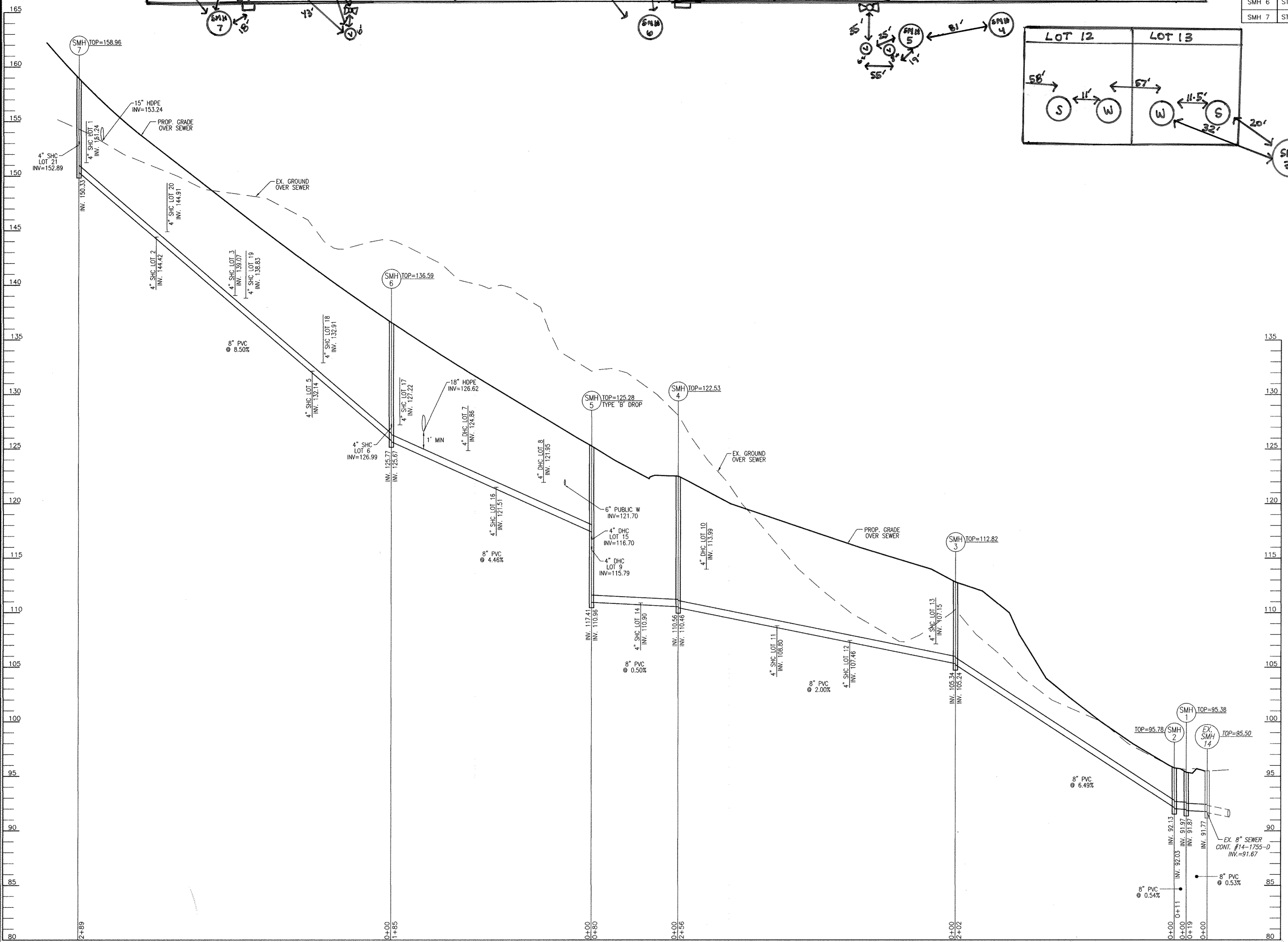
PECORARO PROPERTY
 TAX MAP 38 GRID 9
 1ST ELECTION DISTRICT
 PARCEL P/O 886
 HOWARD COUNTY, MARYLAND
 SCALE AS SHOWN
 SHEET 3 OF 4



SEWER MANHOLE SCHEDULE					
NO.	TYPE	LOCATION	TOP ELEV.	INV. IN	INV. OUT
SMH 1	STD. PRECAST MH HO. CO. STD. DET. G5.12	N 560987.47 E 1392678.42	95.38	91.97	91.87
SMH 2	STD. PRECAST MH HO. CO. STD. DET. G5.12	N 560998.25 E 1392677.78	95.78	92.13	92.03
SMH 3	STD. PRECAST MH HO. CO. STD. DET. G5.12	N 561098.70 E 1392852.73	112.82	105.34	105.24
SMH 4	STD. PRECAST MH HO. CO. STD. DET. G5.12	N 561302.01 E 1392696.83	122.53	110.56	110.46
SMH 5	TYPE "B" DROP MH HO. CO. STD. DET. S1.32	LRP STA. 2+59.98 LEBANON LANE, 32.48 LT.	125.28	117.41	110.96
SMH 6	STD. PRECAST MH HO. CO. STD. DET. G5.12	CL ROAD STA. 5+48.89 LEBANON LANE, 5.00' LT.	136.59	125.77	125.67
SMH 7	STD. PRECAST MH HO. CO. STD. DET. G5.12	CL ROAD STA. 2+59.57 LEBANON LANE, 5.00' LT.	158.96	-	150.33



SEWER HOUSE CONNECTION AS-BUILT LOCATION TABLE					
LOT NUMBER	ADDRESS	LOCATION DIMENSION 1	LOCATION DIMENSION 2	SMH #	INVERT
1	LEBANON LANE	LOT 1 WHC	23 FT	SMH 1	21 FT
2	LEBANON LANE	LOT 2 WHC	43 FT	LOT 2 WHC	10 FT
3	LEBANON LANE	LOT 3 WHC	10 FT	LOT 3 WHC	61.0 FT
4	LEBANON LANE	LOT 4 WHC	62.0 FT	LOT 4 WHC	10 FT
5	LEBANON LANE	SMH 6	10.5 FT	LOT 5 WHC	11 FT
6	LEBANON LANE	LOT 6 WHC	10.0 FT	LOT 6 WHC	60.0 FT
7	LEBANON LANE	LOT 7 WHC	10.0 FT	LOT 7 WHC	68.0 FT
8	LEBANON LANE	LOT 8 WHC	10.0 FT	LOT 8 WHC	68.0 FT
9	LEBANON LANE	LOT 9 WHC	10.0 FT	LOT 9 WHC	68.0 FT
10	LEBANON LANE	LOT 10 WHC	10.0 FT	LOT 10 WHC	68.0 FT
11	LEBANON LANE	LOT 11 WHC	10.0 FT	LOT 11 WHC	68.0 FT
12	LEBANON LANE	LOT 12 WHC	10.0 FT	LOT 12 WHC	68.0 FT
13	LEBANON LANE	SMH 3	20 FT	LOT 13 WHC	11.5 FT
14	LEBANON LANE	LOT 14 WHC	22.0 FT	LOT 14 WHC	40.5 FT
15	LEBANON LANE	LOT 15 WHC	11.0 FT	SMH 5	26.0 FT
16	LEBANON LANE	LOT 16 WHC	20 FT	LOT 16 WHC	27.0 FT
17	LEBANON LANE	SMH 6	10 FT	LOT 17 WHC	23.0 FT
18	LEBANON LANE	LOT 18 WHC	10 FT	LOT 18 WHC	60.0 FT
19	LEBANON LANE	LOT 19 WHC	10 FT	LOT 19 WHC	60.0 FT
20	LEBANON LANE	SMH 7	22.0 FT	LOT 20 WHC	12.5 FT
21	LEBANON LANE	SMH 7	22.0 FT	LOT 21 WHC	22.5 FT



8" PUBLIC SEWER PROFILE
SCALE: HORIZONTAL - 1"=50'
VERTICAL - 1"=5'

SEWER CONNECTION TABULATION							
LOT NO	TYPE	ELEV. @ MANHOLE	ELEV. @ END OF SEWER	ELEV. @ END OF SEWER	ELEV. @ END OF SEWER	M.C.E.	
1	4" SHC, @2.0%	151.24	(15)	151.54	(76)	153.06	155.56
2	4" SHC, @2.0%	144.42	(15)	144.72	(63)	145.98	148.48
3	4" SHC, @2.0%	139.07	(15)	139.37	(62)	140.61	143.11
5	4" SHC, @2.0%	132.14	(15)	132.44	(62)	133.68	136.18
6	4" SHC, @2.0%	126.99	(15)	127.29	(67)	128.63	131.13
7	4" SHC, @2.0%	124.86	(15)	125.16	(66)	126.48	128.98
8	4" SHC, @2.0%	121.95	(15)	122.25	(80)	123.85	126.35
9	4" SHC, @2.0%	115.79	(41)	116.61	(77)	118.15	120.65
10	4" SHC, @2.0%	113.99	(13)	114.25	(60)	115.45	117.95
11	4" SHC, @2.0%	108.80	(13)	109.06	(63)	110.32	112.82
12	4" SHC, @2.0%	107.46	(13)	107.72	(60)	108.92	111.42
13	4" SHC, @2.0%	107.15	(13)	107.41	(59)	108.59	111.09
14	4" SHC, @2.0%	110.90	(52)	111.94	(69)	113.32	115.82
15	4" SHC, @2.0%	116.70	(61)	117.92	(59)	119.10	121.60
16	4" SHC, @2.0%	121.51	(31)	122.13	(70)	123.53	126.03
17	4" SHC, @2.0%	127.22	(31)	127.84	(69)	129.22	131.72
18	4" SHC, @2.0%	132.91	(31)	133.53	(70)	134.93	137.43
19	4" SHC, @2.0%	138.83	(31)	139.45	(72)	140.89	143.39
20	4" SHC, @2.0%	144.91	(31)	145.53	(73)	146.99	149.49
21	4" SHC, @2.0%	152.89	(31)	153.51	(71)	154.93	157.43

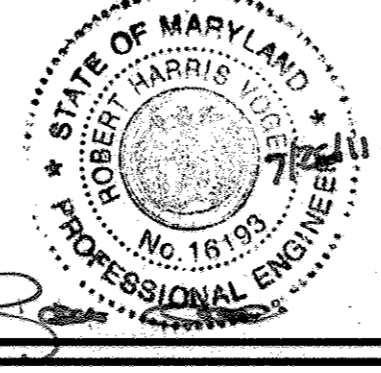
AS-BUILT
10/17/17

DEVELOPER
EMILYS DELIGHT LLC
7310 ESQUIRE COURT, SUITE 14
ELKRIDGE, MARYLAND 21075
(410) 379-8681

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND
S. J. CLAWSON
CHIEF, BUREAU OF UTILITIES

DEPARTMENT OF PLANNING & ZONING
HOWARD COUNTY, MARYLAND
M. E. DUNN
CHIEF, DEVELOPMENT ENGINEERING DIVISION

ROBERT H. VOGEL ENGINEERING, INC.
ENGINEERS • SURVEYORS • PLANNERS
8407 MAIN STREET TEL: 410.461.7666
ELLCOTT CITY, MD 21043 FAX: 410.461.8961



PROFESSIONAL CERTIFICATE
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. 16193, EXPIRATION DATE: 09-27-2012.
DRN: JMR DES: RHV/JCO
CHK: RHV
DATE: OCTOBER 2010

NO.	REVISION	DATE
1	AS BUILT	10/17/17
2	REVISE WATER AND SEWER DUE TO NEW SITE LAYOUT AND GRADING.	02/15/11

FINAL WATER & SEWER PLAN
SEWER PROFILE
CONTRACT 14-4606-D

PECORARO PROPERTY

TAX MAP 38 GRID 9
1ST ELECTION DISTRICT
PARCEL P/O 886
HOWARD COUNTY, MARYLAND

SCALE AS SHOWN
SHEET 4 OF 4