

ITEMS	ESTIMATED BID QUANTITIES	AS-BUILT		
		AS-BUILT QUANTITIES	TYPE	MANUFACTURER / SUPPLIER
8" (DIP CLASS 54) WATER	0 LF	0 LF		
6" (C900 PVC DR-14) WATER	66 LF	66 LF	C-900 DR-14	NORTH AMERICAN / HD SUPPLY
8" (C900 PVC DR-18) WATER	969 LF	969 LF	C-900 DR-18	NORTH AMERICAN / HD SUPPLY
8" 1/8 BEND	12 EA	12 EA	DIP	SKEMA / HD SUPPLY
6" VALVE	3 EA	3 EA	R/S VALVE	KENNEDY / HD SUPPLY
8" VALVE	1 EA	1 EA	R/S VALVE	KENNEDY / HD SUPPLY
8" x 8" D.I.P. COUPLING	1 EA	1 EA	D.I.P.	SKEMA / HD SUPPLY
8" x 8" FHT	3 EA	3 EA	D.I.P.	SKEMA / HD SUPPLY
FIRE HYDRANT	3 EA	3 EA	KENNEDY R.G.	HD SUPPLY / KENNEDY VALVE
8" GATE VALVE	1 EA	1 EA	R/S VALVE	KENNEDY / HD SUPPLY
8" WHC	1 EA	1 EA	C-900 DR-18	NORTH AMERICAN / HD SUPPLY
8" x 8" TEE	1 EA	1 EA	D.I.P.	SKEMA / HD SUPPLY
2" TYPE K COPPER WATER	58 LF	58 LF	COPPER	CAMBRIDGE / HD SUPPLY
2" METER	1 EA	1 EA	F.O.D.	F.O.D. MET CO / HD SUPPLY
2" TAPPING SADDLE	1 EA	1 EA	F.O.D.	F.O.D. MET CO / HD SUPPLY
2" 1/8 BEND	1 EA	1 EA	D.I.P.	SKEMA / HD SUPPLY
NAME OF UTILITY CONTRACTOR:		JUSTICE CONTRACTING, INC.		
SURVEY AND DRAFTING DIV.		CHECKBOX:		
		AS BUILT DATE:		

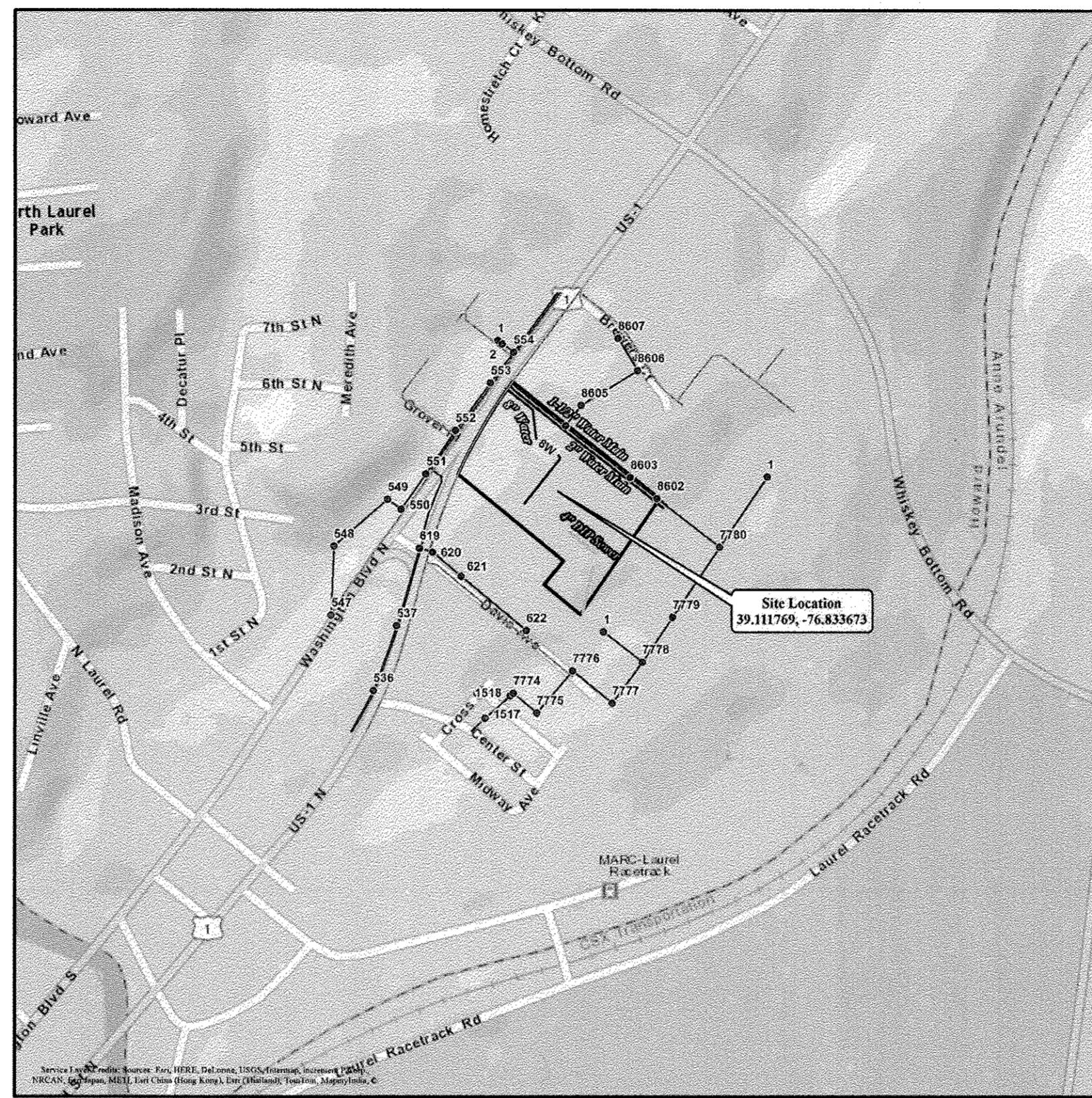
**LIST OF DRAWINGS**

- 1 OF 4 . . . . . COVER SHEET
- 2 OF 4 . . . . . WATER SERVICE PLAN
- 3 OF 4 . . . . . WATER SERVICE PROFILE
- 4 OF 4 . . . . . EXISTING CONDITIONS AND ABANDONMENT PLAN

**LEGEND**

EXISTING BOUNDARY LINE	---
PROPOSED LOT LINE	----
EXISTING RIGHT-OF-WAY LINE	----
EXISTING CURB	=====
PROPOSED CURB	=====
EXISTING PAVEMENT	=====
PROPOSED PAVEMENT	=====
EXISTING ZONING BOUNDARY	-----
EXISTING VEGETATION	
EXISTING TREELINE	-----
PROPOSED TREELINE	-----
EXISTING CONTOUR LINE	-----
PROPOSED CONTOUR LINE	-----
PROPOSED SPOT ELEVATION	+
PROPOSED FINISHED FLOOR ELEVATION	F.F.
EXISTING STORM MANHOLE	
PROPOSED STORM MANHOLE	
EXISTING STORM INLET	
PROPOSED STORM INLET	
EXISTING STORM HEADWALL/ENDWALL	
PROPOSED STORM HEADWALL/ENDWALL	
PROPOSED PIPE OUTLET PROTECTION	
EXISTING STORM PIPE	
PROPOSED STORM PIPE	
PROPOSED STORM STRUCTURE LABEL	
EXISTING FENCE	XXXXXX
EXISTING UTILITY POLE	
EXISTING OVERHEAD TELEPHONE LINE	OT
EXISTING UNDERGROUND TELEPHONE LINE	UT
EXISTING OVERHEAD ELECTRIC LINE	OE
EXISTING TELEPHONE BOX	
EXISTING GAS LINE	G
EXISTING GAS VALVE	
EXISTING WELL	
EXISTING WATER VALVE	
EXISTING FIRE HYDRANT	
EXISTING WATER LINE	
PROPOSED FIRE HYDRANT	
PROPOSED WATER VALVE	
PROPOSED WATER LINE	
PROPOSED WATERLINE EASEMENT	

SEDIMENT CONTROL MEASURES FOR THE CONTRACT WILL BE IMPLEMENTED IN ACCORDANCE WITH SECTION 308 OF THE HOWARD COUNTY DESIGN MANUAL VOLUME IV: STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION AND AS SHOWN ON THE SITE DEVELOPMENT PLAN SDP-15-005.



**LOCATION MAP**  
SCALE: 1"=2000'

**BENCHMARKS**  
GEODETIC BENCHMARK: 50BM1  
GEODETIC STATION: 50BD

**GENERAL NOTES**

- 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.
  - 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. 4723, NO. 2722 AND NO. 50B5. ALL VERTICAL CONTROLS ARE BASED ON NAVD '88. VERTICAL CONTROLS PROVIDED ON THE DRAWINGS ARE CAPPED REBAR SET; ELEVATION = 215.11.
  - 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. IN THE EVENT THE CONTRACTOR'S WORK REQUIRES THE BRACING OF 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.
  - THE CONTRACTOR SHALL POTHOLE TO DETERMINE THE EXACT LOCATION OF EXISTING UNDERGROUND FACILITIES/UTILITIES IN THE VICINITY OF THE PROPOSED WORK. POTHOLES SHALL BE DONE 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 ON THESE PLANS:
 

DISTRICT	COMPANY NAME	PHONE NUMBER
ACSO3	TIME WARNER TELEPHONE/STAKE CENTER	(801) 364-1063
ATM01	AT&T TRANSMISSION	(800) 252-1133
BGEHW	BGE ELECTRIC-USIC	(800) 778-9140
BGEHWG	BGE GAS-USIC	(800) 778-9140
FBLM01	FIBERLIGHT/SUNBELT TELECOM	(727) 596-1500
HCU01	HOWARD COUNTY WATER/SEWER	(410) 313-4982
HTV01	COMCAST/UTLQUEST	(410) 536-0070
HTV02	COMCAST-FIBER/UTLQUEST	(410) 536-0070
MCI01	MCI	(800) 289-3427
MFN04	ZAYO/STAKE CENTER LOCATING	(888) 267-1063
TMN01	24/7 MID-ATLANTIC	(410) 553-2605
TPCO3	AT&T TRANSMISSION TCG	(800) 252-1133
VHW	VERIZON-LAMBERT CABLE	(410) 536-0070
  - 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 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(A) OF THE HOWARD COUNTY CODE.
  - THE DEVELOPER IS RESPONSIBLE FOR THE MAINTENANCE OF SERVICE FOR THE PRIVATE LINES TO 9939 AND 9931 WASHINGTON BOULEVARD DURING CONSTRUCTION ACTIVITIES.
- PART 2 - WATER**
- ALL 8" WATER MAINS SHALL BE C900 PVC DR-18 UNLESS OTHERWISE NOTED. 6" WATER LINES SHALL BE C900 PVC DR-14.
  - 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.
  - TRACER WIRES AND CONTINUITY TEST STATIONS SHALL BE INSTALLED ON ALL DIP AND PVC WATER MAINS IN ACCORDANCE WITH THE HOWARD COUNTY DESIGN MANUAL.
  - FOR PVC WATER MAINS, ALL RECORDS FOR THE QUALITY CONTROL AND QUALIFICATION TEST REQUIREMENTS NOTED IN SECTION 5.1 OF THE MATERIAL 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 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. SEVENTEEN (17) POUND MAGNESIUM ANODES SHALL BE INSTALLED ON ALL VALVES AND DUCTILE IRON FITTINGS INCLUDING RESTRAINTS AND HARNESSSES. TWELVE (12) POUND 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.
  - PROPER ASSEMBLY OF GASKETED PVC JOINTS: THE MANUFACTURER'S INSERTION LINE OF GASKETED PVC PIPE JOINTS INDICATES THE MAXIMUM DEPTH OF INSERTION OF THE SPIGOT INTO THE BELL. AFTER ASSEMBLY OF THE JOINT, THE INSERTION LINE SHALL REMAIN VISIBLE. DUAL INSERTION LINES ON GASKETED PVC PIPE INDICATE THE MAXIMUM AND MINIMUM DEPTH OF INSERTION OF THE SPIGOT INTO THE BELL. THE CONTRACTOR SHALL NOT OVER INSERT OR OVER HOME THE SPIGOT INTO THE BELL OF PVC PIPE.
  - ALL CHANGES IN HORIZONTAL OR VERTICAL DIRECTION OF PVC WATER PIPE SHALL BE MADE WITH STANDARD BENDS, 5-DEGREE SWEEPS OR HIGH DEFLECTION (HD) COUPLINGS. NO BENDING OF THE PIPE OR DEFLECTING OF PVC PIPE JOINTS IS PERMITTED. WHERE HIGH DEFLECTION COUPLINGS OR 5-DEGREE SWEEPS ARE PERMITTED, THE CONTRACTOR SHALL PROVIDE ONE FULL PIPE LENGTH (20-FOOT LONG) ON EITHER SIDE OF THE HIGH DEFLECTION COUPLING OR 5-DEGREE SWEEP. THE CONTRACTOR SHALL USE A VIBRATORY PLATE COMPACTOR OR OTHER APPROVED MEANS TO THOROUGHLY COMPACT THE #57 STONE ON BOTH SIDES OF THE HIGH DEFLECTION COUPLING OR 5-DEGREE SWEEP, TAKING CARE NOT TO USE COMPACTION EQUIPMENT DIRECTLY OVER THE FITTING.
  - PVC HIGH DEFLECTION COUPLINGS SHALL BE LIMITED TO A TOTAL DEFLECTION OF 3-DEGREES (1 1/2-DEGREE ON EITHER END OF THE COUPLING), SHALL BE RATED FOR A MINIMUM 200 PSI MEETING THE REQUIREMENTS OF AWWA C900, SHALL HAVE A MINIMUM LAY LENGTH OF 9-INCHES AND SHALL HAVE CENTER STOPS. PVC HIGH DEFLECTION COUPLINGS SHALL BE CERTAINTED PVC HIGH DEFLECTION (HD) STOP COUPLINGS OR EQUAL.
  - FIVE DEGREE SWEEPS SHALL BE BELL BY SPIGOT, RATED FOR A MINIMUM 225 PSI, DR18 MEETING THE REQUIREMENTS OF AWWA C900 AND SHALL BE MULTI FITTINGS (PEX) BLUE BRUTE DR18 OR EQUAL.
  - WHEN PVC HIGH DEFLECTION COUPLINGS OR PVC 5-DEGREE SWEEPS ARE USED TO FACILITATE CHANGES IN HORIZONTAL OR VERTICAL ALIGNMENTS OF AWWA C-900 PVC PIPELINES, THE CONTRACTOR SHALL INSTALL DEVICES FOR THE PREVENTION OF OVER-INSERTION OF THE PVC PIPE SPIGOTS OR PLAIN ENDS INTO THE PUSH ON BELL JOINT ON BOTH SIDES OF THE HIGH DEFLECTION COUPLINGS AND 5 DEGREE SWEEPS. BELL STOPS SHALL BE PLACED AT THE PROPER INSERTION LINE FOR THE FITTING. THE BELL STOP SHALL BE MANUFACTURED OF DUCTILE IRON AND INCORPORATE AN EXPANSION RETENTION SPRING TO ALLOW FOR PIPE EXPANSION AND CONTRACTION. THE BELL STOPS SHALL BE SERIES 5000 MEGA-STOP, AS MANUFACTURED BY EBAA IRON, INC. OR APPROVED EQUAL.

**WATER AND SEWER CODE**  
WATER ZONE: 400  
TEST GRADIENT: 550

**HOWARD COUNTY CONTROL STATIONS**  
47H2 NORTHING: 161454.84261  
EASTING: 413140.56614  
ELEVATION: 256.093  
STANDARD DISC ON CONCRETE MONUMENT

**VICINITY MAP**

TYPE OF BUILDING	COMMERCIAL
NUMBER OF UNITS	1
NUMBER OF S.H.C.'s	0
NUMBER OF W.H.C.'s	1
AREA OF COMMERCIAL LOT/PARCEL	10.94
SEWER SHED	-
PUMPING STATION	N/A

**MD MISS UTILITY TICKET # 14422847**  
DATED: 07/11/14

PARCEL #	STREET ADDRESS
0442	9941 WASHINGTON BLVD., LAUREL, MD 20723-0000

SUBDIVISION NAME	N/A	SECTION/AREA
L/F	GRID #	ZONING
00920 - 00494	5169-63	CE / CLI
	TAX MAP DISTRICT	ELEC DISTRICT
	81	3

MATERIAL	DIAMETER IN.	LENGTH LF	VALVES EA	WATER CONNECTIONS EA	MANHOLES EA	FIRE HYDRANTS EA	METER EA
EXISTING	6"						
DIP	8"	0	0	0	0	0	0
C900 PVC	6"	76	3	1	0	4	0
C900 PVC	8"	969	1	0	0	0	0
"K" COPPER	2"	56	0	0	0	0	1

# CONTRACT No. 44-4884-D

# NAPA WASHINGTON

## HOWARD COUNTY, MARYLAND

## DEPARTMENT OF PUBLIC WORKS

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

APPROVED:

HOWARD COUNTY DATE: 11/7/16

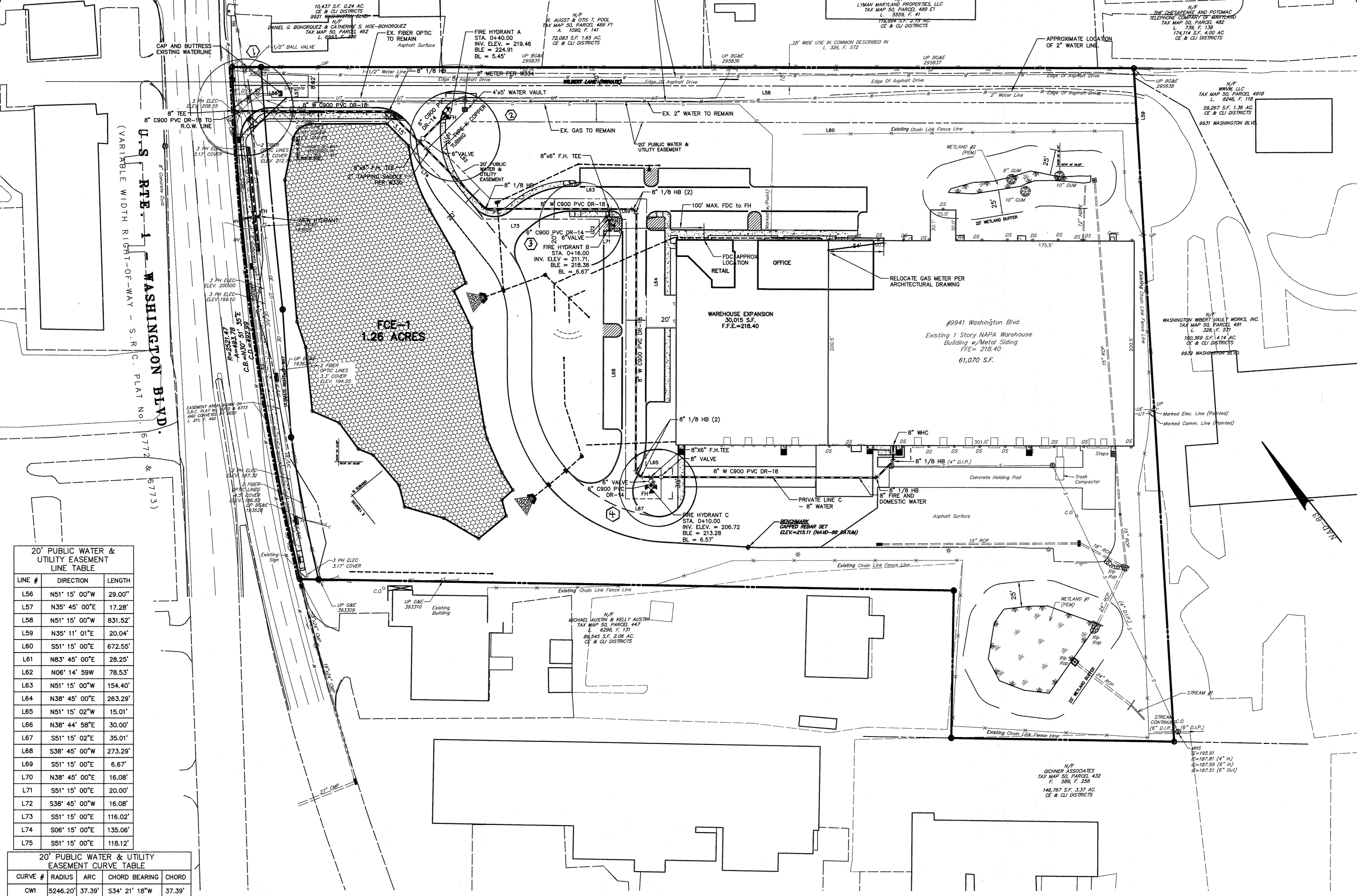
DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND 	DEPARTMENT OF PLANNING AND ZONING HOWARD COUNTY, MARYLAND 	<b>RETTEW</b> RETTEW Associates, Inc. 3020 Columbia Ave., Lancaster, PA 17603 Phone (717) 394-3721 • Fax (717) 394-1063 Email: rettw@rettw.com Website: www.rettew.com Engineers • Planners • Surveyors • Landscape Architects Environmental Consultants	DATE NOV. 24, 2015	PROFESSIONAL CERTIFICATION I HEREBY CERTIFY THAT THESE PLANS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND. 	COVER SHEET	SCALE AS NOTED
			RETTEW No. 099812001	LICENSE NO. 37119 EXP. DATE 05-17-2017		
CHIEF, BUREAU OF UTILITIES 		CHIEF, DEVELOPMENT ENGINEERING DIVISION 		MANAGER: BRIAN SPRAY, P.E.	DESIGN BY: JAR CHKD BY: AJM DRAWN BY: DCW CHKD BY: DEW	PREPARED FOR: GENUINE PARTS COMPANY 2999 CIRCLE 75 PARKWAY ATLANTA, GA 30339

**CONTRACTOR NOTES:**

- CONTRACTOR SHALL VERIFY THE LOCATION AND DEPTH OF THE EXISTING WATERLINE PRIOR TO ANY CONSTRUCTION.
- CONTRACTOR SHALL VERIFY LOCATION AND DEPTHS OF ALL OTHER UTILITIES WITHIN THE PROPOSED WATERLINE RIGHT-OF-WAY PRIOR TO CONSTRUCTION.
- FACILITIES THAT ARE TO BE SALVAGED, SUCH AS FIRE HYDRANT, METER VAULT AND INSIDE DETECTOR CHECK METER, SHALL BE CAREFULLY REMOVED TO AVOID ANY DAMAGES AND RETURNED TO HOWARD COUNTY BUREAU OF UTILITIES.
- THE DEVELOPER IS RESPONSIBLE FOR THE MAINTENANCE OF SERVICE FOR THE PRIVATE LINES TO 9939 AND 9931 WASHINGTON BOULEVARD DURING CONSTRUCTION ACTIVITIES.

**LEGEND**

- EXISTING BOUNDARY LINE
- PROPOSED LOT LINE
- EXISTING RIGHT-OF-WAY LINE
- EXISTING CURB
- PROPOSED CURB
- EXISTING PAVEMENT
- PROPOSED PAVEMENT
- EXISTING ZONING BOUNDARY
- EXISTING VEGETATION
- DECIDUOUS TREE
- EVERGREEN TREE
- EXISTING TREETRINE
- PROPOSED TREETRINE
- EXISTING CONTOUR LINE
- PROPOSED CONTOUR LINE
- PROPOSED SPOT ELEVATION
- PROPOSED FINISHED FLOOR ELEVATION
- EXISTING STORM MANHOLE
- PROPOSED STORM MANHOLE
- EXISTING STORM INLET
- PROPOSED STORM INLET
- EXISTING STORM HEADWALL/ENDWALL
- PROPOSED STORM HEADWALL/ENDWALL
- PROPOSED PIPE OUTLET PROTECTION
- EXISTING STORM PIPE
- PROPOSED STORM PIPE
- PROPOSED STORM STRUCTURE LABEL
- EXISTING FENCE
- EXISTING UTILITY POLE
- EXISTING OVERHEAD TELEPHONE LINE
- EXISTING UNDERGROUND TELEPHONE LINE
- EXISTING OVERHEAD ELECTRIC LINE
- EXISTING TELEPHONE BOX
- EXISTING GAS LINE
- EXISTING GAS VALVE
- EXISTING WELL
- EXISTING WATER VALVE
- EXISTING FIRE HYDRANT
- EXISTING WATER LINE
- PROPOSED FIRE HYDRANT
- PROPOSED WATER VALVE
- PROPOSED WATER LINE
- PROPOSED WATERLINE EASEMENT



LINE "A" - 8" WATERLINE FROM ROUTE 1 TO FH-C (SOUTHWEST OF BUILDING)

FITTING DESCRIPTION	STATION	NAD83 COORDINATES
8"x8" TEE	0+00	N 526817.64 E 1359293.12
STATE RIGHT-OF-WAY	0+29.90	N 526798.93 E 1359316.42
8" 1/8" VB	0+49.6	N 526786.59 E 1359331.80
8" 1/8" HB	1+53.5	N 526787.79 E 1359330.31
8" 1/8" VB	1+78.1	N 526697.09 E 1359415.51
8"x8"x8" TEE W/ 8" 1/8" VB	1+95.9	N 526679.42 E 1359417.44
8" 1/8" VB	2+05.8	N 526669.56 E 1359418.52
2" TAPPING SADDLE	2+06.5	N 526668.76 E 1359418.61
8" 1/8" HB	2+88.6	N 526587.30 E 1359427.53
8" 1/8" VB	2+96.7	N 526582.20 E 1359433.88
8"x8"x8" TEE	4+10.4	N 526511.02 E 1359522.58
8" 1/8" HB	4+33.9	N 526496.36 E 1359540.84
8" 1/8" HB	4+38.5	N 526491.79 E 1359541.34
8" 1/8" HB	6+92.2	N 526293.91 E 1359382.53
8" 1/8" HB	6+99.3	N 526286.86 E 1359383.29
8"x8"x8" TEE	7+09.3	N 526280.60 E 1359391.09
8" GATE VALVE	7+19.3	N 526274.34 E 1359398.89

LINE "B" - 8" PRIVATE LINE FROM FH-C (SOUTHWEST OF BUILDING) TO WHC

FITTING DESCRIPTION	STATION	NAD83 COORDINATE
8" 1/8" HB	2+12.0	N 526141.65 E 1359564.22
8" 1/8" HB	2+35.13	N 526144.17 E 1359587.22
8" WHC	2+50.3	N 526155.99 E 1359596.71

FIRE HYDRANT TEE INFORMATION

FHT	STATION	NAD83 COORDINATE
FHT-A	1+76.2	N 526679.42 E 1359417.44
FHT-B	3+91.7	N 526511.02 E 1359522.58
FHT-C	6+90.6	N 526280.60 E 1359391.09

20" PUBLIC WATER & UTILITY EASEMENT LINE TABLE

LINE #	DIRECTION	LENGTH
L56	N51° 15' 00"W	29.00'
L57	N35° 45' 00"E	17.28'
L58	N51° 15' 00"W	831.52'
L59	N35° 11' 01"E	20.04'
L60	S51° 15' 00"E	672.55'
L61	N83° 45' 00"E	28.25'
L62	N06° 14' 59"W	78.53'
L63	N51° 15' 00"W	154.40'
L64	N38° 45' 00"E	263.29'
L65	N51° 15' 02"W	15.01'
L66	N38° 44' 58"E	30.00'
L67	S51° 15' 02"E	35.01'
L68	S38° 45' 00"W	273.29'
L69	S51° 15' 00"E	6.67'
L70	N38° 45' 00"E	16.08'
L71	S51° 15' 00"E	20.00'
L72	S38° 45' 00"W	16.08'
L73	S51° 15' 00"E	116.02'
L74	S06° 15' 00"E	135.06'
L75	S51° 15' 00"E	118.12'

20" PUBLIC WATER & UTILITY EASEMENT CURVE TABLE

CURVE #	RADIUS	ARC	CHORD BEARING	CHORD
CW1	5246.20'	37.39'	S34° 21' 18"W	37.39'

DEPARTMENT OF PUBLIC WORKS  
HOWARD COUNTY, MARYLAND

*[Signature]* 12/20/16  
DATE

DEPARTMENT OF PLANNING AND ZONING  
HOWARD COUNTY, MARYLAND

*[Signature]* 1-12-16  
DATE

**RETTEW**  
RETTEW Associates, Inc.  
3020 Columbia Ave., Lancaster, PA 17603  
Phone (717) 394-3721 · Fax (717) 394-1063  
Email: rette@rette.com Website: www.rette.com

MANAGER: BRIAN SPRAY, P.E. DESIGN BY: JAR CHKD BY: AJM DRAWN BY: DCW CHKD BY: DEW

DATE: NOV. 24, 2015

PROFESSIONAL CERTIFICATION  
I HEREBY CERTIFY THAT THESE PLANS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND.

RETTEW No. 099812001

LICENSE NO. 37119  
EXP. DATE 05-17-2017

11-24-15

STATE OF MARYLAND  
PROFESSIONAL ENGINEERING

*[Signature]*

WATER SERVICE PLAN

600 SCALE MAP NO. 50 BLOCK NO. 10

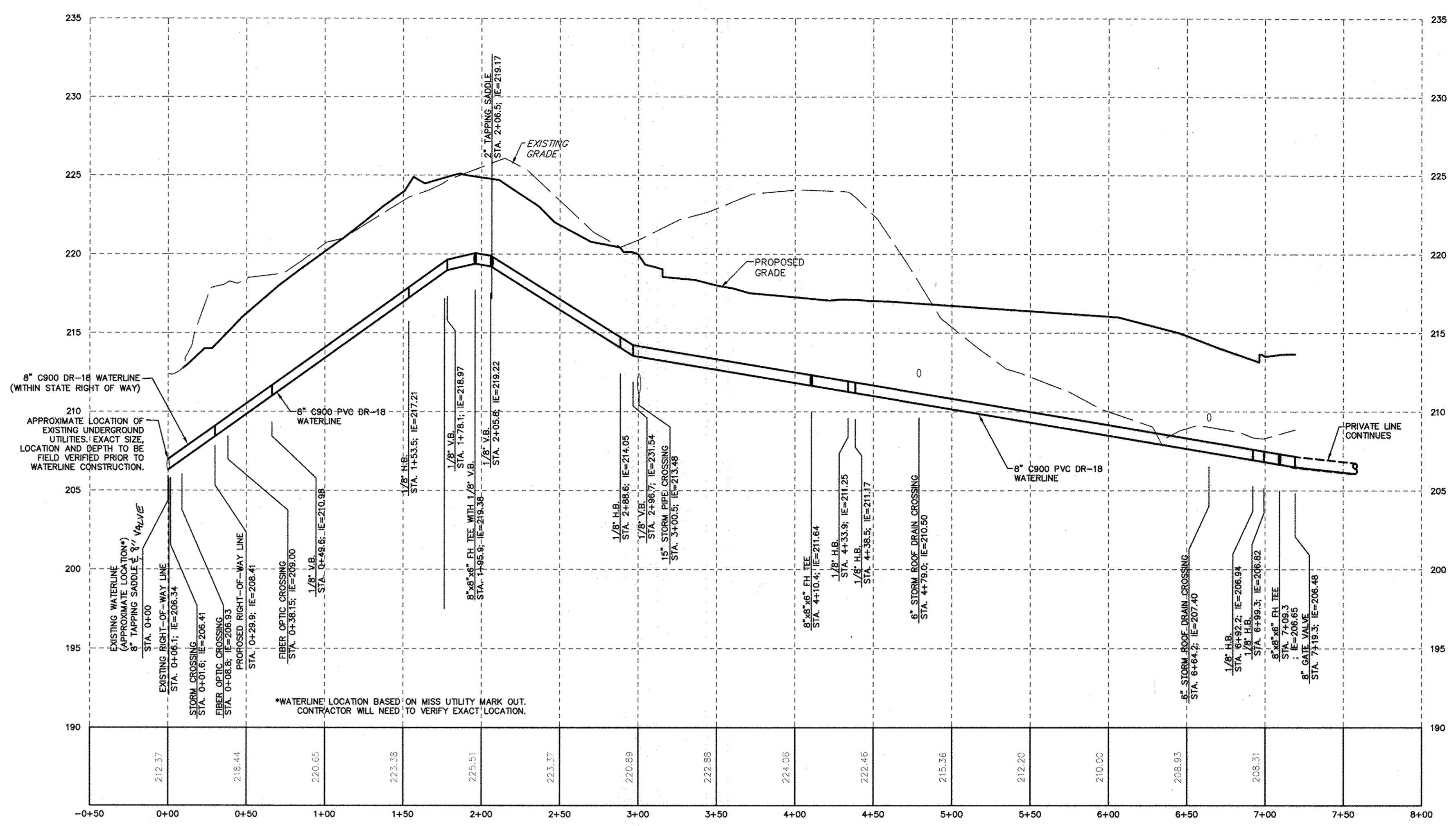
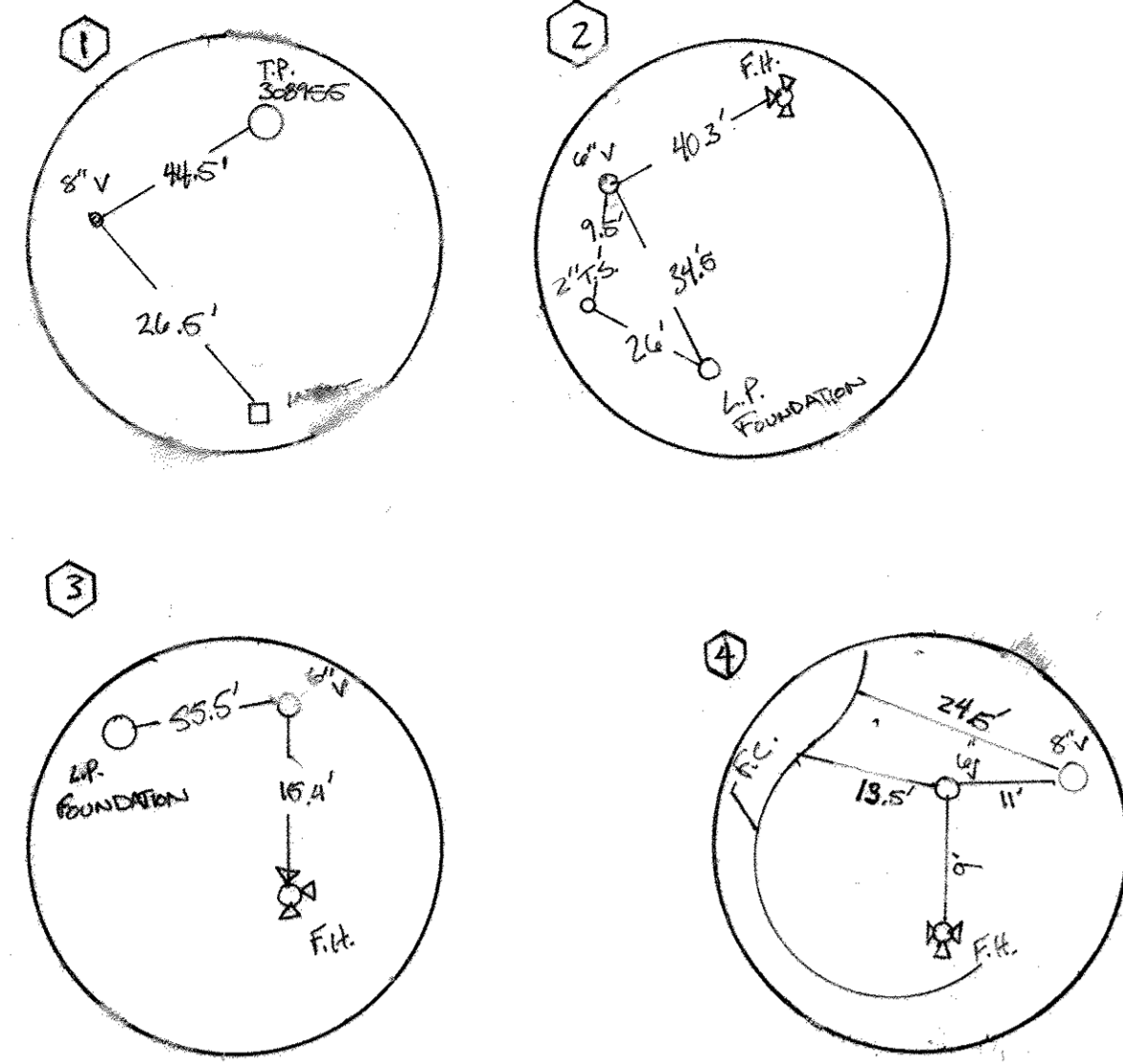
NAPA WASHINGTON  
CONTRACT No. 44-4884-D

HOWARD COUNTY, MARYLAND  
ELECTION DISTRICT No. 6

SCALE  
1"=50'-0"

SHEET  
2 OF 4

PREPARED FOR:  
GENUINE PARTS COMPANY  
2999 CIRCLE 75 PARKWAY  
ATLANTA, GA 30339



"CENTERLINE PROFILE OF 8 INCH WATER MAIN"  
 HORIZONTAL SCALE - 1"=20'  
 VERTICAL SCALE - 1"=2'

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PREPARED FOR:  
 GENUINE PARTS COMPANY  
 2999 CIRCLE 75 PARKWAY  
 ATLANTA, GA 30339

DEPARTMENT OF  
 PUBLIC WORKS  
 HOWARD COUNTY, MARYLAND

*M. K. Wells* h 86 12/30/15  
 CHIEF, BUREAU OF UTILITIES DATE

DEPARTMENT OF  
 PLANNING AND ZONING  
 HOWARD COUNTY, MARYLAND

*Chad E. ...* 1.12.16  
 CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

**RETTEW**  
 RETTEW Associates, Inc.  
 3020 Columbia Ave., Lancaster, PA 17603  
 Phone (717) 394-3721 • Fax (717) 394-1063  
 Email: rettetw@rettetw.com  
 Website: www.rettetw.com

Managers: Planners Surveyors Landscape Architects  
 Environmental Consultants

MANAGER: BRIAN SPRAY, P.E.  
 DESIGN BY: JAR  
 CHKD BY: AJM  
 DRAWN BY: DCW  
 CHKD BY: DEW

DATE  
 NOV. 24, 2015

RETTTEW No.  
 099812001

PROFESSIONAL CERTIFICATION  
 I HEREBY CERTIFY THAT THESE PLANS 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. 37119  
 EXP. DATE 05-17-2017

*Eric W. Hedy*  
 PROFESSIONAL ENGINEER  
 STATE OF MARYLAND  
 LICENSE NO. 37119  
 EXPIRES 05-17-2017

NO.	DATE	REVISION
1	3/17	AS-BUILT

WATER SERVICE PROFILE

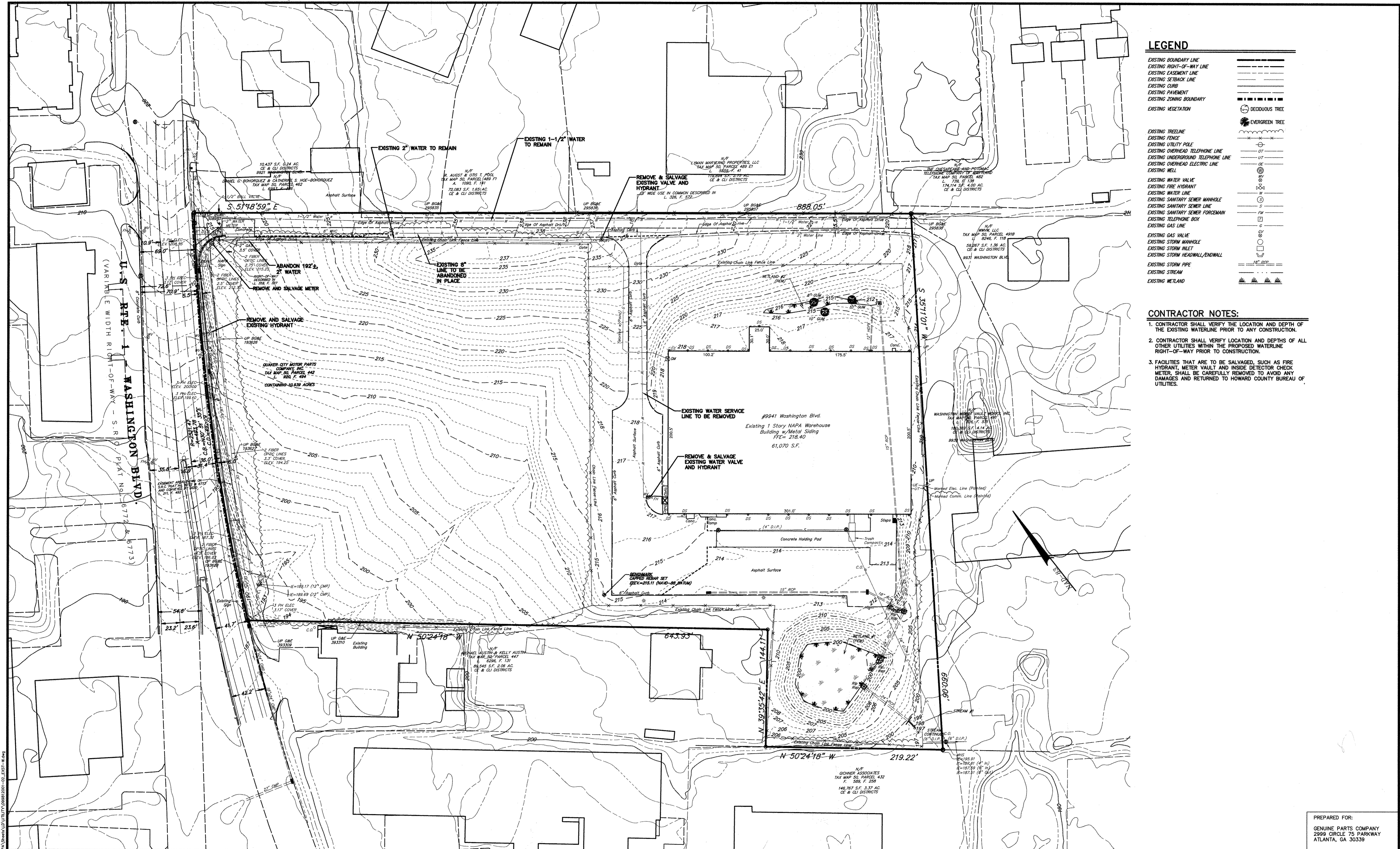
600 SCALE MAP NO. 50 BLOCK NO. 10

NAPA WASHINGTON  
 CONTRACT No. 44-4884-D

HOWARD COUNTY, MARYLAND  
 ELECTION DISTRICT No. 6

SCALE  
 1"=50'-0"

SHEET  
 3 OF 4



**LEGEND**

EXISTING BOUNDARY LINE	---
EXISTING RIGHT-OF-WAY LINE	----
EXISTING EASEMENT LINE	- - - -
EXISTING SETBACK LINE	----
EXISTING CURB	----
EXISTING PAVEMENT	----
EXISTING ZONING BOUNDARY	----
EXISTING VEGETATION	○
DECIDUOUS TREE	○
EVERGREEN TREE	●
EXISTING TREELINE	~~~~~
EXISTING FENCE	----
EXISTING UTILITY POLE	○
EXISTING OVERHEAD TELEPHONE LINE	○-----○
EXISTING UNDERGROUND TELEPHONE LINE	UT
EXISTING UNDERGROUND ELECTRIC LINE	OE
EXISTING WELL	⊕
EXISTING WATER VALVE	⊕
EXISTING FIRE HYDRANT	⊕
EXISTING WATER LINE	W
EXISTING SANITARY SEWER MANHOLE	⊕
EXISTING SANITARY SEWER LINE	SS
EXISTING SANITARY SEWER FORCEMAIN	FM
EXISTING TELEPHONE BOX	⊕
EXISTING GAS LINE	G
EXISTING GAS VALVE	⊕
EXISTING STORM MANHOLE	⊕
EXISTING STORM INLET	⊕
EXISTING STORM HEADWALL/ENDWALL	⊕
EXISTING STORM PIPE	SP
EXISTING STREAM	~~~~~
EXISTING METLAND	

- CONTRACTOR NOTES:**
- CONTRACTOR SHALL VERIFY THE LOCATION AND DEPTH OF THE EXISTING WATERLINE PRIOR TO ANY CONSTRUCTION.
  - CONTRACTOR SHALL VERIFY LOCATION AND DEPTHS OF ALL OTHER UTILITIES WITHIN THE PROPOSED WATERLINE RIGHT-OF-WAY PRIOR TO CONSTRUCTION.
  - FACILITIES THAT ARE TO BE SALVAGED, SUCH AS FIRE HYDRANT, METER VAULT AND INSIDE DETECTOR CHECK METERS, SHALL BE CAREFULLY REMOVED TO AVOID ANY DAMAGES AND RETURNED TO HOWARD COUNTY BUREAU OF UTILITIES.

<p><b>DEPARTMENT OF PUBLIC WORKS</b> HOWARD COUNTY, MARYLAND</p> <p><i>[Signature]</i> CHIEF, BUREAU OF UTILITIES</p>	<p><b>DEPARTMENT OF PLANNING AND ZONING</b> HOWARD COUNTY, MARYLAND</p> <p><i>[Signature]</i> CHIEF, DEVELOPMENT ENGINEERING DIVISION</p>	<p><b>RETTEW</b> RETTEW Associates, Inc. 3020 Columbia Ave., Lancaster, PA 17603 Phone (717) 394-3721 • Fax (717) 394-1063 Email: rettew@rettew.com Webster: www.rettew.com</p> <p>Managers: BRIAN SPRAY, P.E. Design By: JAR CHKD BY: AJM Drawn By: DCW CHKD BY: DEW</p>	<p>DATE: NOV. 24, 2015</p> <p>RETTEW No.: 099812001</p> <p>PROFESSIONAL CERTIFICATION I HEREBY CERTIFY THAT THESE PLANS WERE PREPARED OR APPROVED BY ME AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND.</p> <p>LICENSE NO.: 37119 EXP. DATE: 05-17-2017</p> <p><i>[Signature]</i> 11-24-15 STATE OF MARYLAND PROFESSIONAL ENGINEER No. 37119</p>	<p><b>NAPA WASHINGTON</b> CONTRACT No. 44-4884-D</p> <p>EXISTING CONDITIONS AND ABANDONMENT PLAN</p> <p>600 SCALE MAP NO. 50 BLOCK NO. 10</p>	<p>SCALE: 1"=50'-0"</p> <p>SHEET: 4 OF 4</p> <p>HOWARD COUNTY, MARYLAND ELECTION DISTRICT No. 6</p>
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