### **GENERAL NOTES**

- 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 CONTRACTORS EXPENSE.
- 2. TOPOGRAPHIC FIELD SURVEYS WERE PERFORMED ON JANUARY, 2004. BY FREDERICK WARD ASSOCIATES.
- 3. 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. 18G1, NO. 24C2. ALL VERTICAL CONTROLS ARE BASED ON NAVD '88. VERTICAL CONTROL PROVIDED ON THE DRAWINGS ARE NO. 18G1 & NO. 24C2(ENGINEER/SURVEY FIRM SHALL PROVIDE DESCRIPTION OF VERTICAL CONTROL POINTS, I.E., IRON BARS, CROSS CUTS
- ON CONCRETE STRUCTURES, ETC.) 4. ALL PIPE ELEVATIONS SHOWN ARE INVERT ELEVATIONS UNLESS OTHERWISE NOTED
- 5. 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.
- 5. FOR DETAILS NOT SHOWN ON THE DRAWINGS, 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 SYMB AT THE LOCATION OF THE TEST PIT. A NOTES 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 OPERATION
- 8. 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 (CONTRACTOR SERVICE)	410-850-4620
BGE (EMERGENCY)	410-685-1400
BUREAU OF UTILITIES	410-313-4900
COLONIAL PIPELINE CO	410-795-1390
MISS UTILITY	
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
- 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 THE 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 ANY 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. ALL PROPOSED UTILITIES CONNECTING TO EXISTING UTILITIES WILL BE DONE BY JACK-AND- BORE.

### PART II - WATER

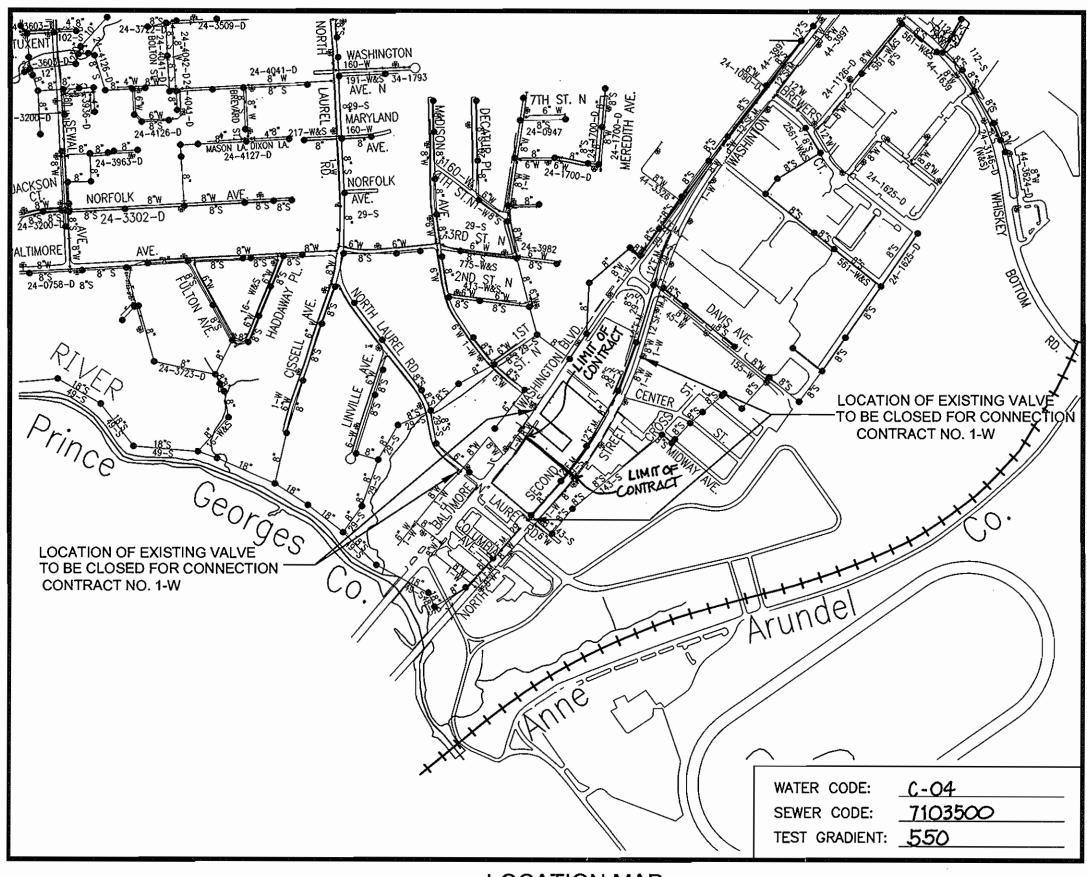
- 1. ALL WATER MAINS TO BE D.I.P. CLASS 52 UNLESS OTHERWISE NOTED. 2. TOPS OF ALL WATER MAINS TO HAVE A MINIMUM OF 3'-6" COVER UNLESS OTHERWISE NOTED.
- 3. VALVES ADJACENT TO TEES SHALL BE STRAPPED TO TEES. 4. ALL FITTINGS SHALL BE BUTTRESSED OR ANCHORED WITH CONCRETE IN
- ACCORDANCE WITH THE STANDARD 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 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.
- 6. THE CONTRACTOR SHALL NOT OPERATE ANY WATER MAIN VALVES ON THE EXISTING WATER SYSTEM.

## PART III - SEWER

- 1. ALL SEWER MAINS SHALL BE D.I.P. OR P.V.C UNLESS OTHERWISE NOTED.
- 2. ALL MANHOLES SHALL BE 4'-0" 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 W.T. IN PLAN AND PROFILE SHALL HAVE WATERTIGHT
- FRAME AND COVER, STANDARD DETAIL G5.52. WHERE WATERTIGHT MANHOLE FRAME AND COVERS ARE USED, SET TOP OF FRAME 1'-6" ABOVE FINISHED GRADE UNLESS OTHERWISE NOTED ON THE DRAWINGS.
- 6. HOUSE(S) WITH THE SYMBOL "C.N.S." INDICATES THAT CELLAR CANNOT BE SERVED.

# ASHBURY COURTS RETAIL AND 140 APARTMENT HOUSING UNITS

HOWARD COUNTY, MARYLAND CONTRACT NO. 24-4374-D



LOCATION MAP SCALE: 1"=600'

TYPE OF BUILDING: NO. OF UNITS/PARCELS: NO. OF WATER HOUSE CONNECTIONS: NO. OF SEWER HOUSE CONNECTIONS: DRAINAGE AREA: TREATMENT PLANT:

APARTMENTS AND RETAIL

LITTLE PATUXENT RIVER

ALL SAINTS ROAD

SEDIMENT CONTROL - SDR-06-107

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING

CHIEF, DEVELOPMENT ENGINEERING DIVISION

THIS DEVELOPMENT PLAN IS APPROVED

FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL

CONCERVATION DISTRICT.

DEVELOPER 10071 WBO LLC C/O PATRIOT GROUP 1003 K STREET. NW SUITE 207 WASHINGTON, DC 20001 DATE: NOVEMBER 2007

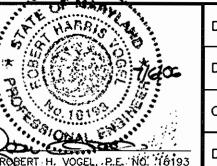
APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

CHIEF, BUREAU OF UTILITIES

7-3|-06

DATE

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



DESIGN BY: RJ/MY					
DEGICINET: TRAINIT					
DRAWN BY: RJ/MY					FINA
					CONSTR
CHECKED BY: RHV					00110111
	:				
DATE: 05-16-2006	BY	NO	REVISION	DATE	600' SCALE MAP NO. 50

FINAL WATER **CONSTRUCTION PLAN** 

BLOCK NO. 10

**ASHBURY COURTS** RETAIL AND 140 APARTMENT HOUSING UNITS **BUILDABLE BULK PARCEL A** CONTRACT NO. 24-4374-D

PARCEL 379, 408, 423 HOWARD COUNTY, MARYLAND

SCALE

AS

SHOWN

SHEET

VICINITY MAP

SCALE: 1" = 2000'

BENCHMARK INFORMATION

THE BEARINGS SHOWN ON THIS PLAT ARE REFERRED TO

COORDINATE SYSTEM (NAD 83) AS PROJECTED BY THE

AS-BUILT

514 L.F. D.I.P., CL.52 GRIFFIN PIPE/BELAIR ROAD SUPPLY

GATE VALVE MUELLER CO./BELAIR ROAD SUPPLY

MJ SIGMA SIGMA / BELAIR ROAD SUPPLY

MJ SIGMA SIGMA/BELAIR ROAD SUPPLY

P.V.C., SOR35 JM MFG./BELAIR ROAD SUPPLY

SS TAP JCM INDUSTRIES/BELAIR RD. SUPPLY

**QUANTITIES** 

NAME OF UTILITY CONTRACTOR : GRADELINE CONSTRUCTION CORPORATION

SURVEY AND DRAFTING DIVISION AS-BUILT DATE : NOVEMBER 2007

QUANTITIES

WATER

IEA.

33 L.F.

4 E.A.

4 EA.

QUANTITIES

**ESTIMATED** 

520 L.F.

3 EA.

I EA.

O EA.

l EA.

j EA.

2 EA.

33 L.F.

\_\_

**ITEMS** 

8" WATER

8" VALVE

8"x8" TEE

8" CAP AND BUTTRESS

8"x6" FIREHYDRANT TS&V

SLEEVE & VALVE

8" SEWER

45° V BEND

8" SLEEVE

8"x8" TAPPING

FIRE HYDRANT

FOLLOWING HOWARD COUNTY GEODETIC CONTROL STATIONS

THE SYSTEM OF COORDINATES ESTABLISHED IN THE MARYLAND

50BA (NORTH) 527,561.678 (E) 1,359,772.604 (ELEV.) 249.423'

50B5 (NORTH) 524,999.375 (EAST) 1,357,925.748 (ELEV.) 178.181

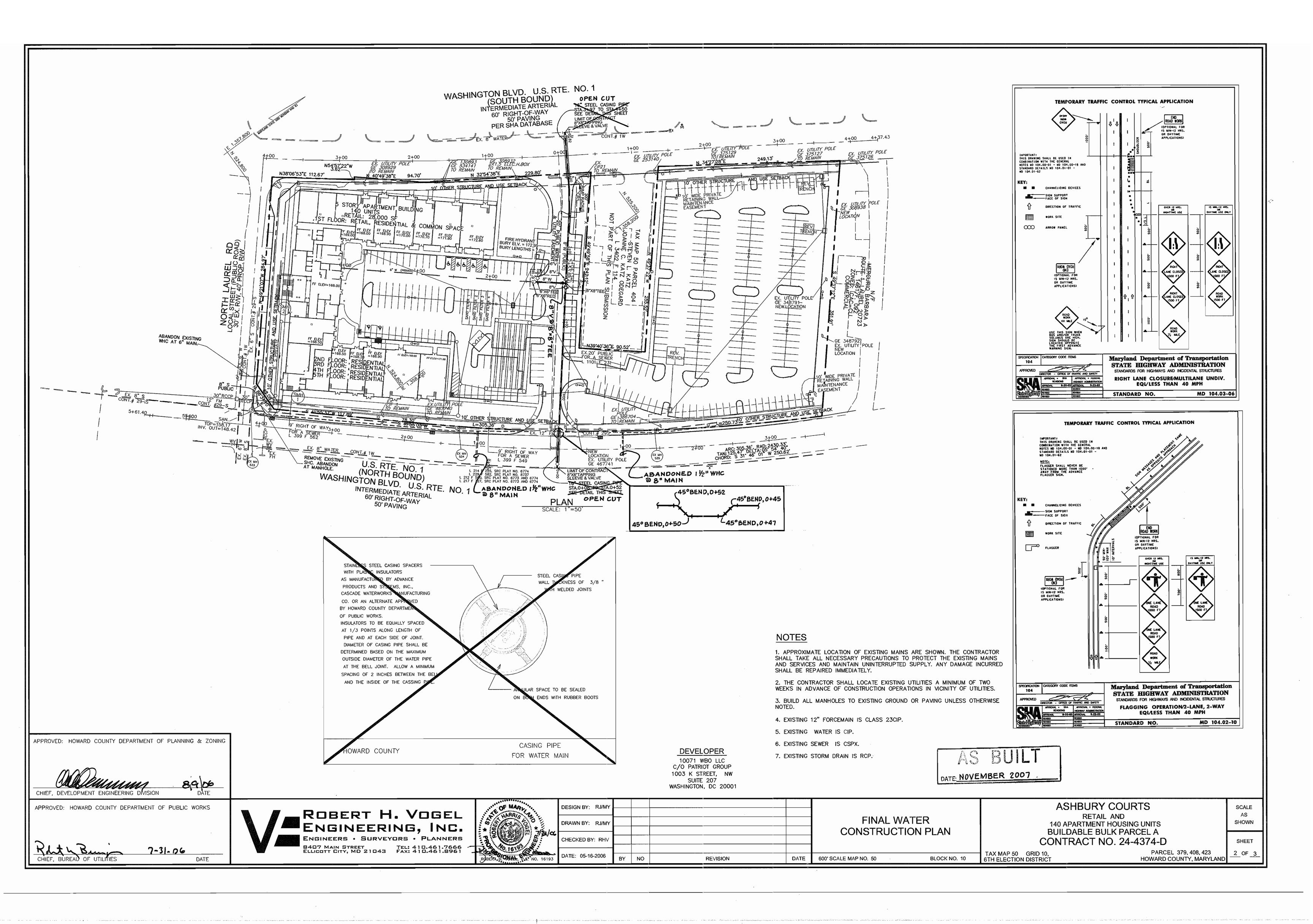
MANUFACTURER/SUPPLIER

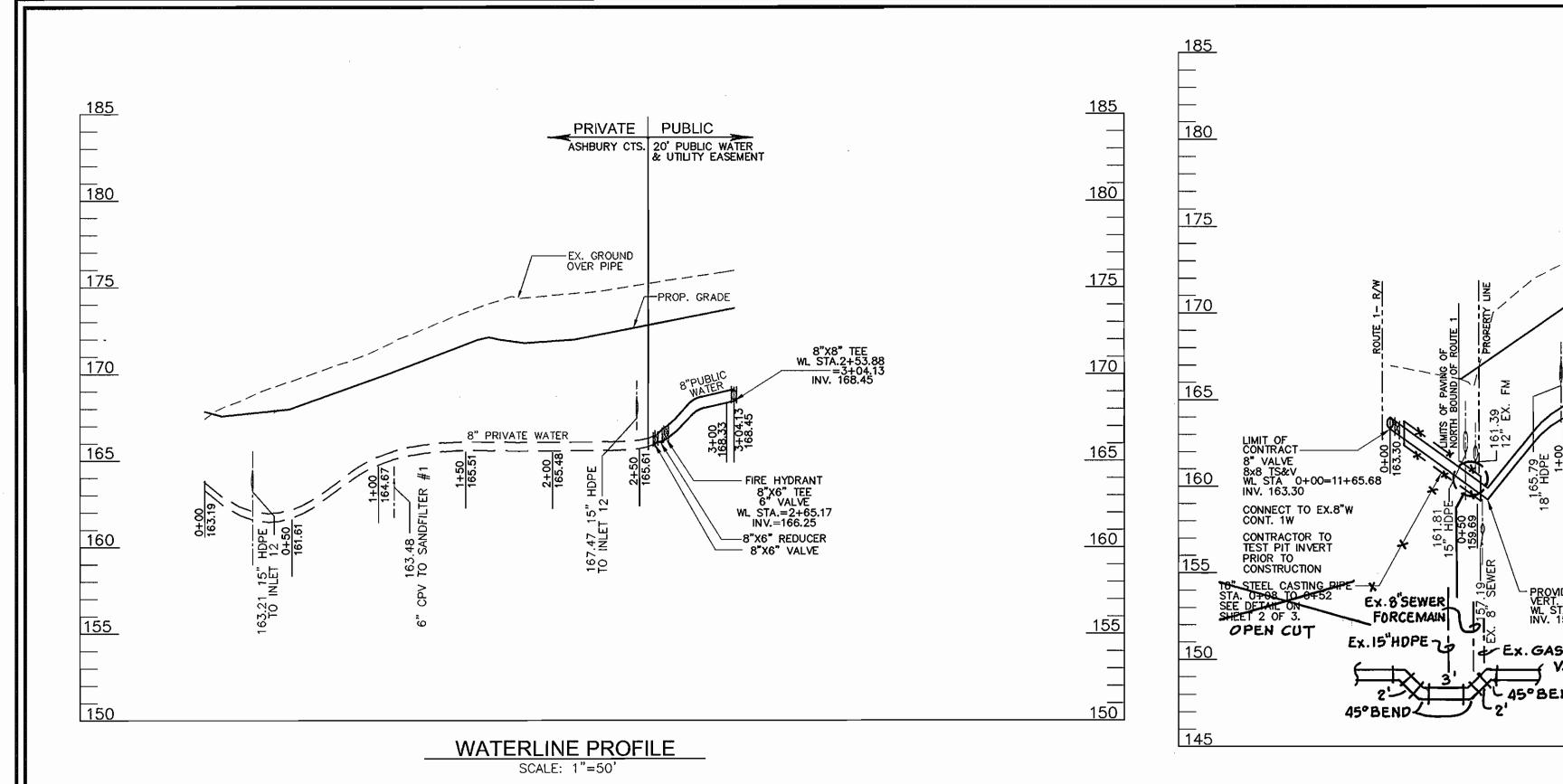
MUELLER CO./BELAIR ROAD SUPPLY

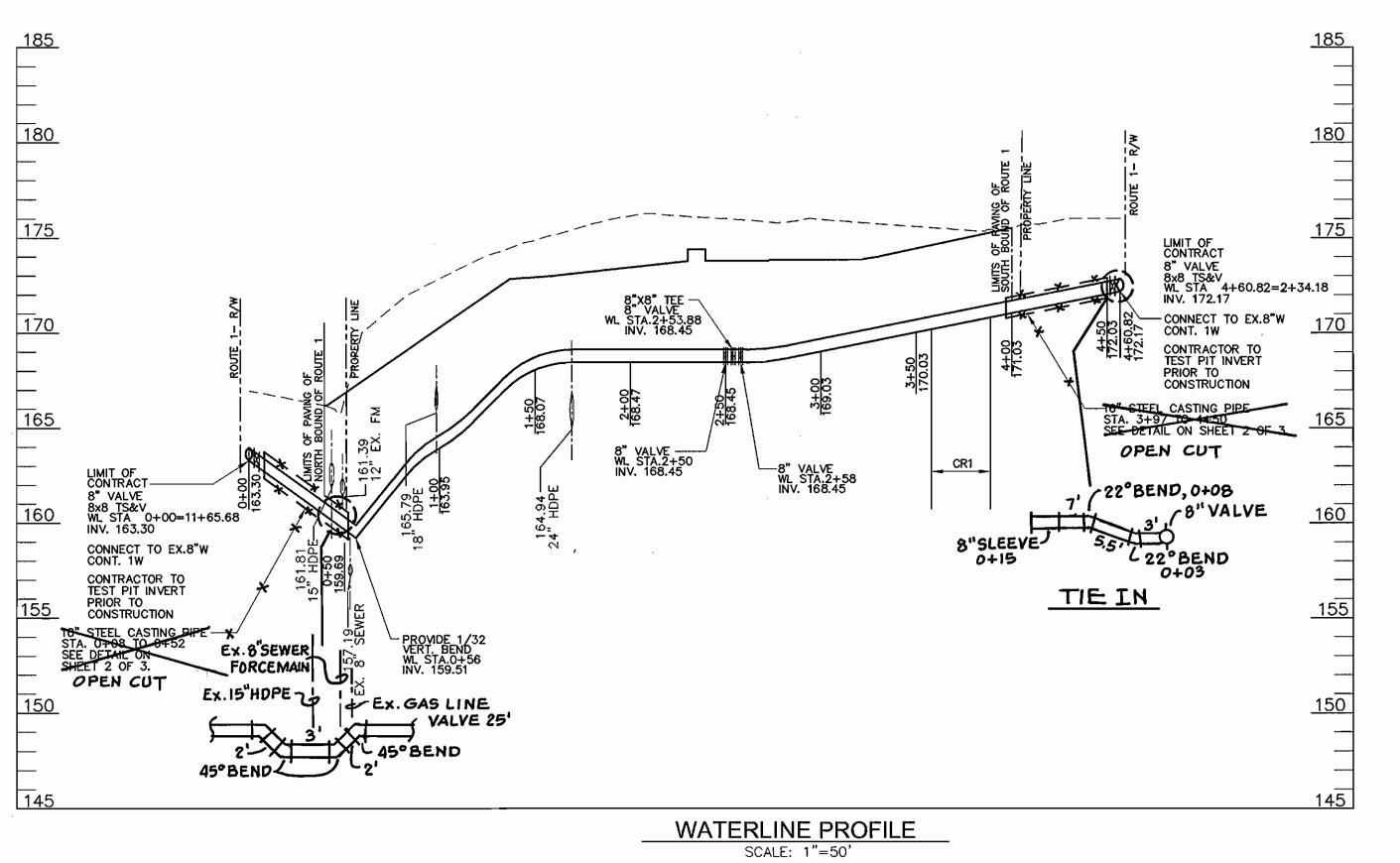
SIGMA/BELAIR ROAD SUPPLY

SIGMA/BELAIR ROAD SUPPLY

TAX MAP 50 GRID 10. OF 3 6TH ELECTION DISTRICT

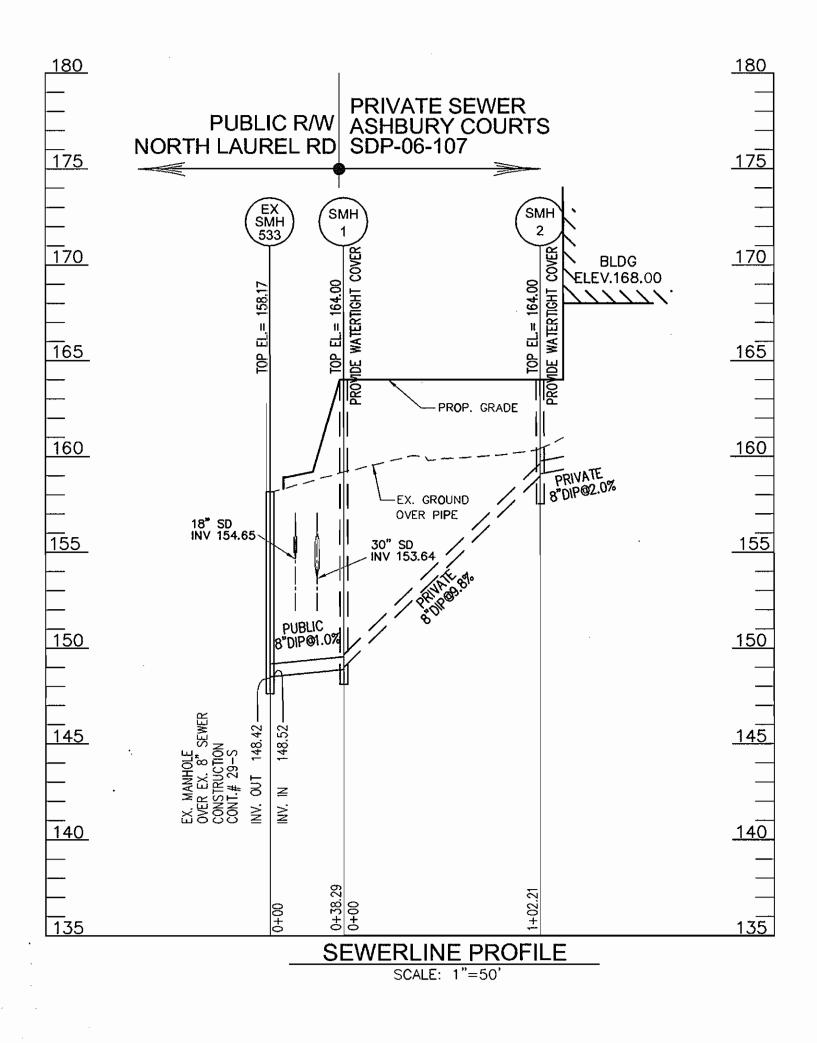






WATER MAIN LOCATION CHART				
WL STA.	APPURTENANCE			
PUBLIC WATER EASEMENT				
WL STA. 0+00	8"X8" TAPPING SLEEVE & VALVE			
WL STA. 0+56	8" 1/32 VERT. BEND			
WL STA. 2+65.17	FIRE HYDRANT			
WL STA. 2+63	8" VALVE			
WL STA. 2+62	8"X6" REDUCER			
WL STA, 1+31,40	8"X8" TEE & VALVE			
WL STA. 2+46.35	8" CAP & BUTTRESS			
WL STA. 4+60.82	8"X8" TAPPING SLEEVE & VALVE			
WL STA. 2+53.28	8" CAP & BUTTRESS			

CRIMP TABLE					
LENGTH	RADIUS	PC STA.	PT STA.		
36.93'	300.00	3+57.83	3+88.77		
		LENGTH RADIUS	LENGTH RADIUS PC STA.		



APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING

CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

Rolt Berry 7-31-06
CHIEF, BUREAU OF UTILITIES DATE

ROBERT H. VOGEL ENGINEERS · SURVEYORS · PLANNERS

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-	DATE: 05-16-2006	BY	NO	REVISION	DATE	600' SCALE MAP NO. 50

DEVELOPER

10071 WBO LLC C/O PATRIOT GROUP

1003 K STREET, NW SUITE 207 WASHINGTON, DC 20001

> FINAL WATER CONSTRUCTION PLAN

> > BLOCK NO. 10

DATE NOVEMBER 2007

ASHBURY COURTS

RETAIL AND

140 APARTMENT HOUSING UNITS
BUILDABLE BULK PARCEL A

CONTRACT NO. 24-4374-D

CONTRACT NO. 24-4374-D

TAX MAP 50 GRID 10,
6TH ELECTION DISTRICT

PARCEL 379, 408, 423
HOWARD COUNTY, MARYLAND

SHEET

A parcel 379, 408, 423
HOWARD COUNTY, MARYLAND

SCALE

AS

SHOWN