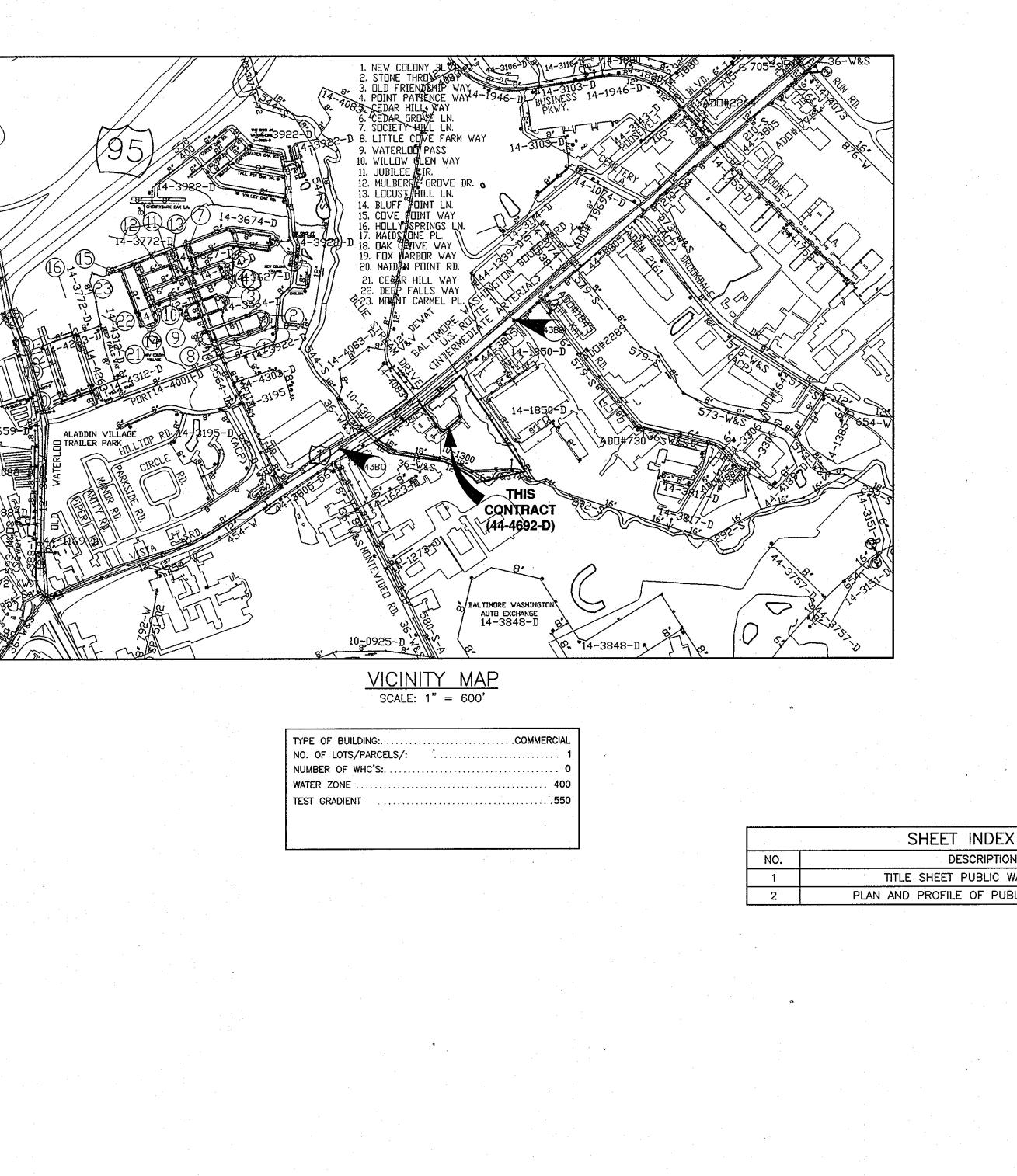
		QUANTITIES	5		
ITEMS	QUANTITIES	AS-BUILT			
	ESTIMATED	QUANTITIES	TYPE	MANUF./SUPPLIER	
· · · · · · · · · · · · · · · · · · ·		[· · · · · · · · · · · · · · · · · · ·		i	
8" PVC C900 WATER	456 LF 107 LF				
FIRE HYDRANTS (INCLUDES TEE & VALVE)	4 EA.				
12"x8" TS&V	1 EA.				
8" VALVE	1 EA.				
			· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	

WATER HOUSE CONNECTION AS-BUILT LOCATION TABLE LOCATION DIMENSION 1 | LOCATION DIMENSION 2 ADDRESS BLDG NUMBER 7615 WASHINGTON BOULEVARD 'A'

THIS PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT. hllo IOWARD SOIL CONSERVATION DISTRICT DEVELOPER: COMMERCIAL CONTRACTORS, INC. SEDIMENT CONTROL MEASURES FOR THIS CONTRACT WILL BE 1205 YORK ROAD, PENTHOUSE LUTHERVILLE, MARYLAND 21093 IMPLEMENTED IN ACCORDANCE WITH SECTION 308 OF THE 410-825-8400 HOWARD COUNTY STANDARD SPECIFICATIONS AND AS PER ROAD CONSTRUCTION PLANS SDP-11-002. BENCHMARK DEPARTMENT OF PLANNING AND ZONING HOWARD COUNTY, MARYLAND DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND ENGINEERS & LAND SURVEYORS & PLANNERS **ENGINEERING, INC.** 8480 BALTIMORE NATIONAL PIKE & SUITE 418 & ELLICOTT CITY, MARYLAND 21043 (P) 410-465-6105 (F) 410-465-6644 60 THOMAS JOHNSON DRIVE ▲ FREDERICK, MARYLAND 21702 (P) 301-371-3505 (F) 301-371-3506 WWW.BEI-CMLENGINEERING.COM P:\2071 Lorien-Elkridge\dwg\6046.dwg, 10/5/2010 4:22:34 PM

LORIEN-ELKRIDGE PARCEL 'A' CONTRACT NO. 44-4692-D



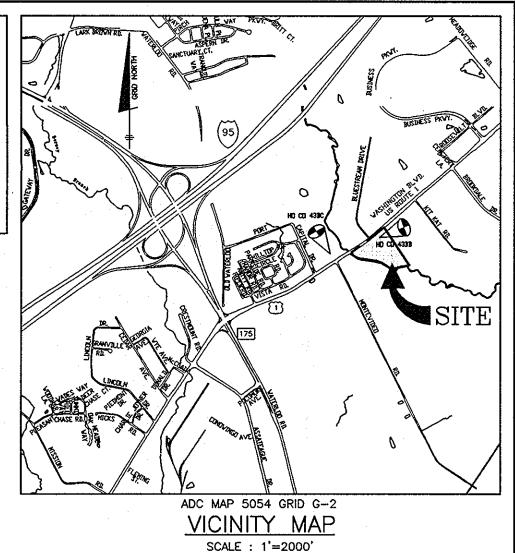
Professional Certification. I hereby certify that these documents were prepared or approved by me, and	DESIGN:	DBT				
that I am a duy sich to philissional engineer under the laws of the Sister of Maryland, Aiccuse No.						TITLE SHE
	DRAFT: BFC/DBT					PUBLIC WATER
	снк: в	BFC			•	
C 2014 E 10 5 2010	DATE: 10	0/2010	BY	NO.	REVISIONS DATE	600 SCALE MAP: 43 BLOCK: 10

vv

 \cup

BENCHMARKS NAD'83 HORIZONTAL HO. CO. #43BB STAMPED BRASS DISK SET ON TOP OF CONCRETE BASE. NORTH BOUND US. ROUTE 1, BY # 7561 US-1 (JESSUP) N 550534.19' E 1376905.25' ELEVATION: 208.971

HO. CO. #43BC STAMPED BRASS DISK SET ON TOP OF CONCRETE BASE. SOUTH BOUND ROUTE 1 AND MOUNTEVIDEO ROAD. N 549592.091' E 1375466.62' ELEVATION: 214.137'



GENERAL NOTES

PART I – GENERAL

1. 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.

2. TOPOGRAPHIC FIELD SURVEYS WERE PERFORMED IN FEBRUARY, 2003 BY BENCHMARK ENGINEERING, INC.

3. 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. 0012 AND NO. 16E1.

4. ALL VERTICAL CONTROLS ARE BASED ON NAVD '88. VERTICAL CONTROLS PROVIDED O THE DRAWINGS ARE 0012 AND 16E1. 5. ALL PIPE ELEVATIONS SHOWN ARE INVERT ELEVATIONS UNLESS OTHERWISE NOTED OI 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 OF 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 THE 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.

7. 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.

8. 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.

9. THE CONTRACTOR SHALL NOTIFY THE FOLLOWING UTILITY COMPANIES OR AGENCIES AT LEAST FIVE (5) WORKING DAYS BEFORE STARTING WORK SHOWN ON THESE PLANS:

NT&T	
BGE (CONSTUCTION SERVICES)	
BGE (EMERGENCY)	
BUREÀU OF UTILITIES	
COLONIAL PIPELINE CO	
MISS UTILITY	
STATE HIGHWAY ADMINISTRATION	
/ERIZON	1-800-743-0033/410-224-9210

10. TREES AND SHRUBS ARE TO BE PROTECTED FROM DAMAGE TO THE MAXIMUM EXTENT. TREES AND SHRUBS LOCATED WITHIN THE CONSTRUCTION STRIP ARE NOT TO REMOVED OR DAMAGED BY THE CONTRACTOR.

11. THE CONTRACTOR SHALL REMOVE TREES, STUMPS AND ROOTS ALONG 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 (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 SHALL BE POLYVINYLCHLORIDE (PVC) PIPE MEETING THE REQUIREMENTS OF AWWA C900 DR18, PRESSURE CLASS 150 AND THE HOWARD COUNTY DESIGN MANUAL VOLUME IV STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION AND ALL SUBSEQUENT AMENDMENTS THERETO.

2. TOPS OF ALL WATER MAINS SHALL HAVE A MINIMUM OF 3'-6" OF COVER UNLESS OTHERWISE NOTED.

3. VALVES ADJACENT TO TEES SHALL BE STRAPPED TO TEES.

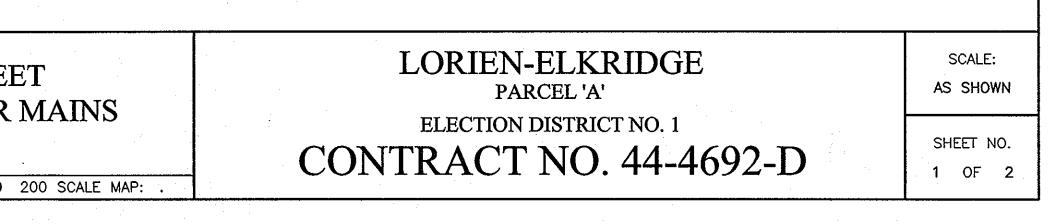
4. ALL FITTINGS SHALL BE BUTTRESSED OR ANCHORED WITH CONCRETE IN ACCORDANCE WITH STANDARD DETAILS UNLESS OTHERWISE PROVIDED FOR ON THE DRAWINGS. 5. FIRE HYDRANTS SHALL BE SET TO THE BURY LINE ELEVATIONS SHOWN ON THE DRAWINGS. ALL FIRE HYDRANTS SHALL BE INSTALLED IN ACCORDANCE WITH STANDARD DETAILS. THE SOIL AROUND THE FIRE HYDRANT SHALL BE COMPACTED IN ACCORDANCE WITH SECTION 1000 AND SECTION 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 FOR INSIDE METER SETTING. 8. VALVES ARE TO BE ATTACHED WITH IRON FITTINGS OR CONCRETE ANCHORS.

9. THE DIMENSION RATIO FOR THE PVC MAIN SHALL BE DR18.

10. WATER MAIN CONSTRUCTION SHALL CONSIST OF PVC MAIN WITH EPOXY COATED DIP FITTINGS OR PVC MAIN WITH PVC FITTINGS.



DESCRIPTION TITLE SHEET PUBLIC WATER MAINS PLAN AND PROFILE OF PUBLIC WATER MAINS

والمحاف المستحد فالمحاف المحاف المحاف والمستحك متعقوبا أنوا مستحد ومروز ومرور والمرور والمرد والروا والمراسط محاف

