

**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 supply. Any damage incurred shall be repaired immediately to the satisfaction of the Engineer at the Contractor's expense.
- All horizontal controls are based on Maryland State Coordinates.
- All vertical controls are based on U.S.G.S. data.
- All pipe elevations shown are invert elevations.
- Clear all utilities by a minimum of 6". Clear all poles by 2'-0" minimum or tunnel as required. 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 bracing of additional poles or damages shall be deducted from money owed the contractor. The contractor shall coordinate with the utility companies to schedule the bracing of the poles.
- For details not shown on the drawings, and for materials and construction methods use Howard County Design Manual, Volume IV, Standard Specifications and Detail 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 location of the test pit. 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.
- Contractor shall notify the following utility companies or agencies at least five working days before starting work shown on these plans.
 

State Highway Administration	(410) 531-5533
BG&E Co. Contractor Services	(410) 850-4620
BG&E Co. Underground Damage Control	(410) 787-9068
Miss Utility	(410) 257-7777
Colonial Pipeline Co.	(410) 795-1390
Howard County Department of Public Works Bureau of Utilities	(410) 313-4900
- Trees and shrubs are to be protected from damage to maximum extent. Trees and shrubs located within the construction strip are not to be removed or damaged by the contractor.
- 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.

**PART II - WATER**

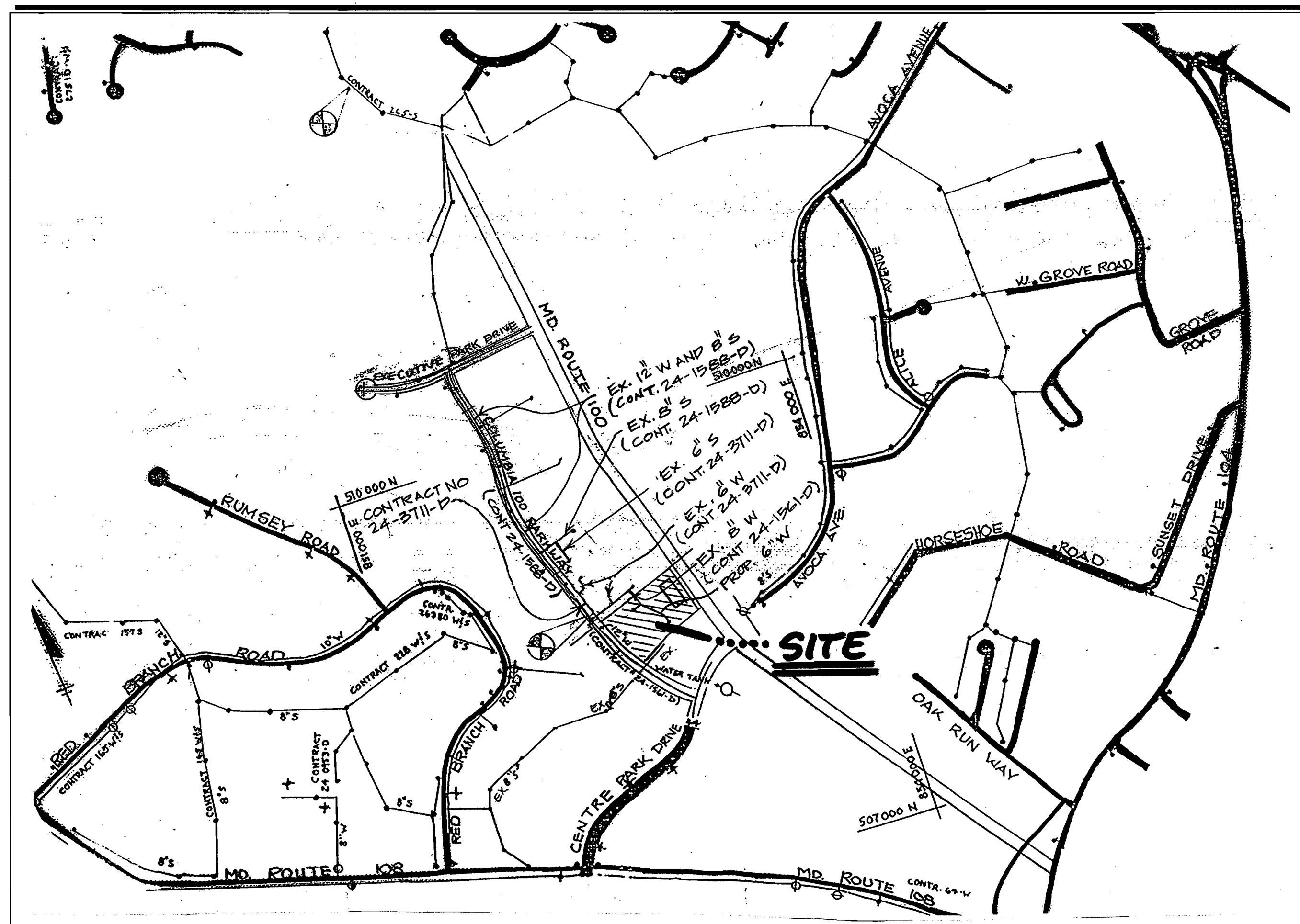
- All water mains to be D.I.P. Class 52 unless otherwise noted.
- Tops of all water mains to have a minimum of 3'-1/2' cover unless otherwise noted.
- Valves adjacent to tees shall be strapped to tees.
- All fittings shall be buttressed or anchored with concrete in accordance with the Standard Details 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 strapped and buttressed with concrete in accordance with Standard Details. 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.
- All water house connections shall be for inside meter setting unless otherwise noted on plans or in specifications.
- The minimum vertical clearance between any water main and any other underground utilities is one foot.

**PART III - SEWER**

- All sewer mains shall be DIP or P. V. C. unless otherwise noted.
- The contractor shall provide a joint in all sewer mains within 2'-0" of exterior manhole wall.
- All manholes shall be 4'-0" inside diameter unless otherwise noted.
- Force mains shall be D.I.P. only.
- 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 covers, Standard Detail CS.52. Where watertight manhole frame and cover is 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.

**VICINITY MAP**

SCALE : 1" = 600'



**QUANTITY TABLE**

ITEM	DESCRIPTION	MANUFACTURER	QUANTITY	UNIT
1	6" SLEEVE	TYLER	1	EA.
2	6" 1/16 BEND	TYLER	4	EA.
3	8" X 6" TEE	TYLER	2	EA.
4	8" DIP CLASS 52 PIPE	GRIFFIN	360	LF
5	6" VALVE	KENNEDY	3	EA.
6	FIRE HYDRANT	KENNEDY	2	EA.
7	6" DIP WATER MAIN	GRIFFIN	37	LF

CONTRACTOR: BOSLEY, INC.

**INDEX**

SHEET	TITLE
1	TITLE SHEET
2	PLAN AND PROFILES

**BENCHMARK DATA**

No.	Location(1)	Elevation
30 FC	0.65 Miles North of Centre Park Drive West of Route 100.	386.842
----	Southwest property corner (Rebor with cap)	479.35

1) Refer to Howard County location sketch for exact location

Type of Building	21,325 sq.ft. commercial
No. of Lots/Parcels	1
No. of Water House Connections	1
No. of Sewer House Connections	1
Drainage Area	Little Patuxent
Treatment Plant	Route 108 Pumping Station, Patapsco
Water Code	G02
Sewer Code	5657400
Test Gradient	780

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

APPROVED: *[Signature]* 1/12/00  
HOWARD SOIL CONSERVATION DISTRICT DATE

REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS.

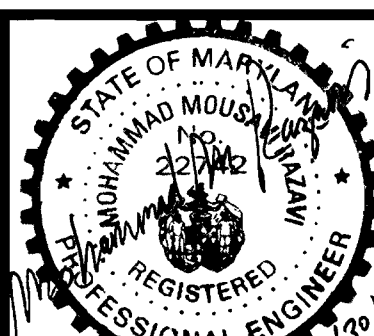
APPROVED: *[Signature]* 1/12/00  
U.S. NATURAL RESOURCES CONSERVATION SERVICE DATE

NOTE: SEDIMENT CONTROL SHALL BE PROVIDED AS PER SDP-00-38 AND SECTION 219 OF THE HOWARD COUNTY DESIGN MANUAL VOLUME IV, SPECIFICATIONS.

DEPARTMENT OF PUBLIC WORKS  
HOWARD COUNTY, MARYLAND

DEPARTMENT OF PLANNING & ZONING  
HOWARD COUNTY, MARYLAND

**The RBA-Group**  
ENGINEERS • ARCHITECTS • PLANNERS  
7184 Columbia Gateway Drive  
Suite 205, Columbia, Maryland 21046  
Phone (410) 312-0966, Fax 312-0997



DES:	BY:	NO.	REVISION	DATE
MAP	MAP	1	COUNTY COMMENTS	11/18/99
DRN:	VM			
CHK:	MMR			
DATE:				10/21/99

WATER AND SEWER EXTENSION PLAN  
NUMBER OF LOTS: 1  
CONTRACT NO. -- 44-3815-D

SECTION 1, AREA 1, PARCEL D-1  
COLUMBIA 100 CORPORATE CENTER  
COLUMBIA 100 LLC  
COLUMBIA 100 OFFICE RESEARCH PARK  
RECORD PLAT #9149, ZONING POR  
TAX MAP 30

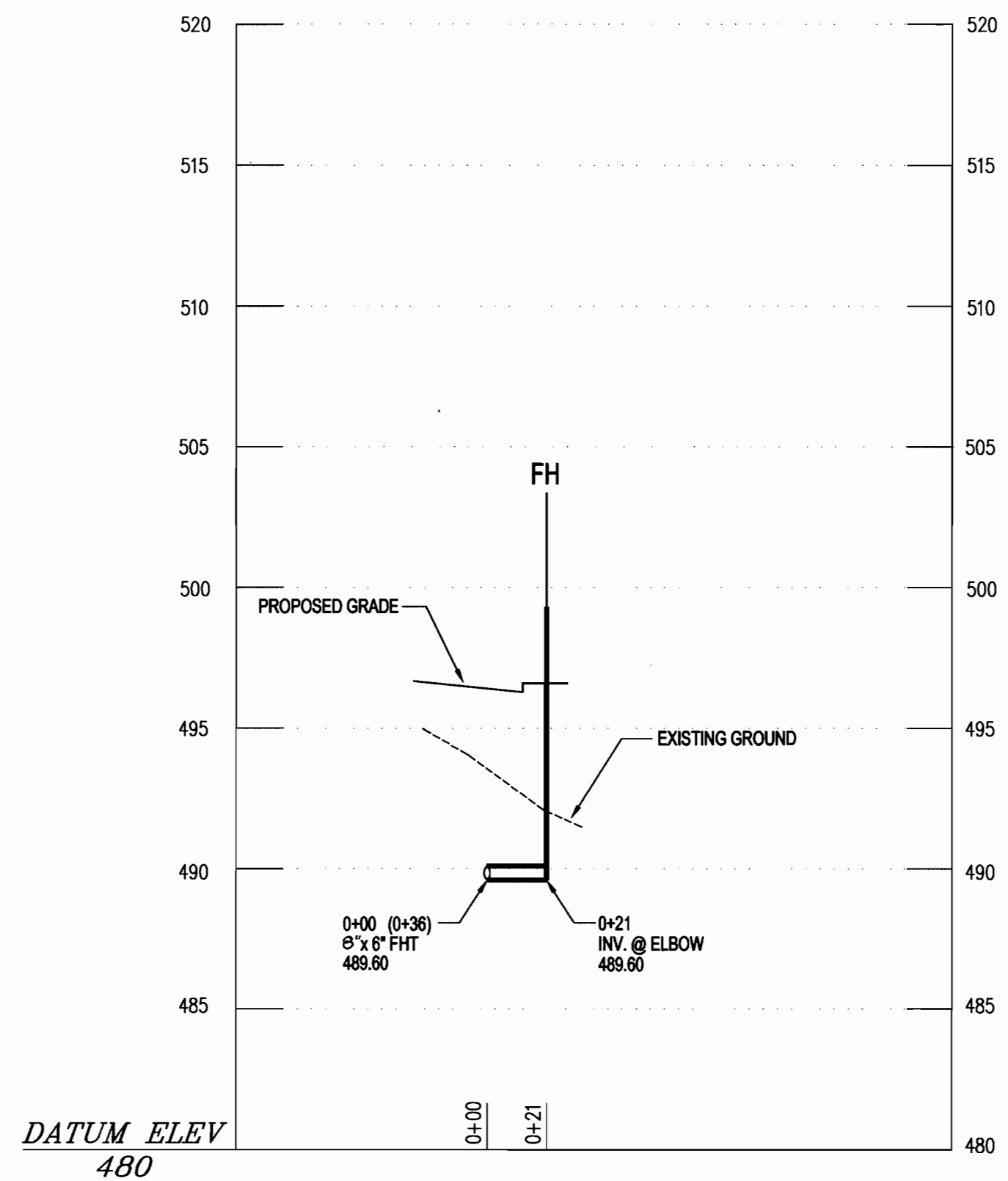
SCALE AS SHOWN

SHEET 1 OF 2

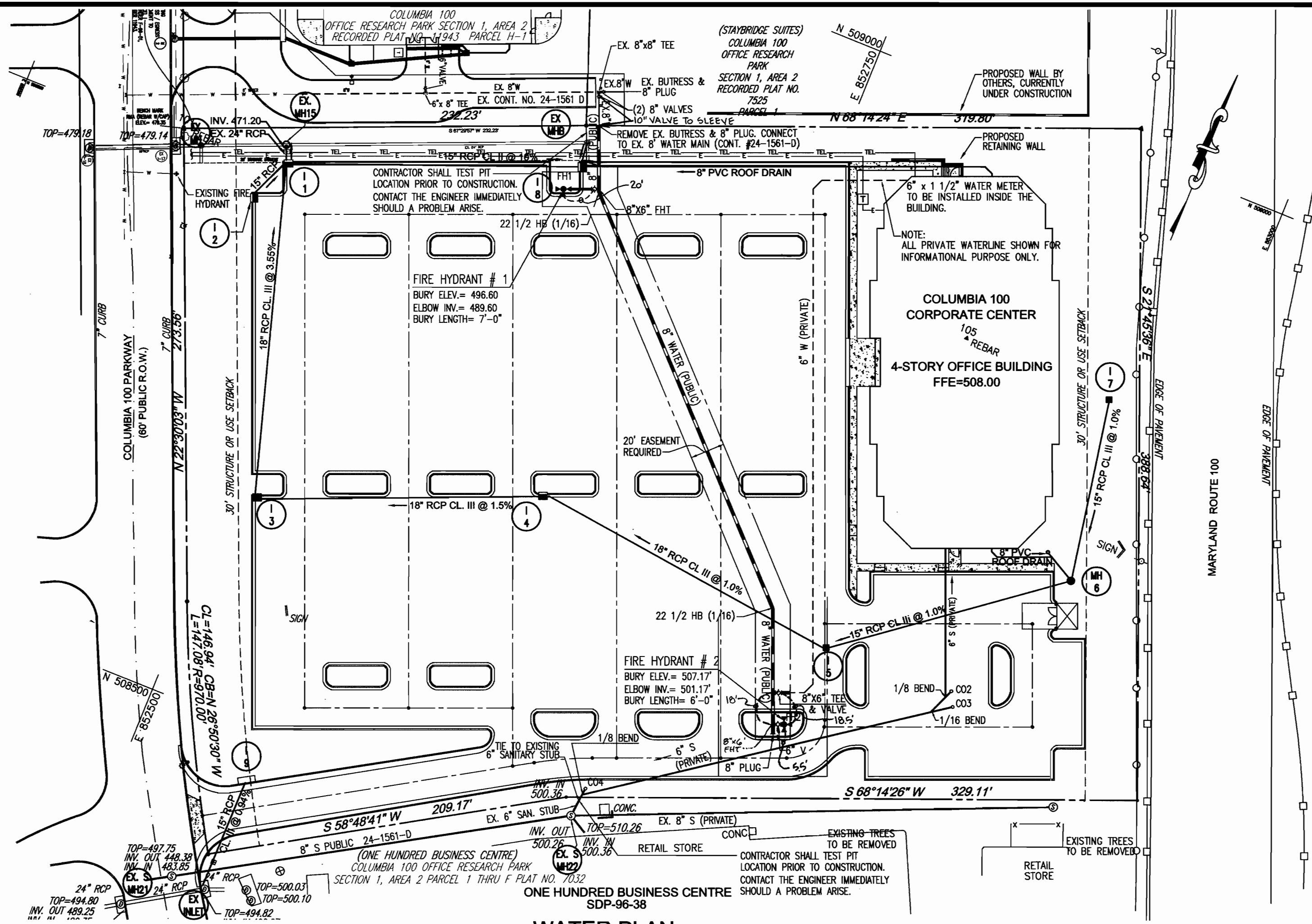
600' SCALE MAP NO. 30 BLOCK NO. N/A 2nd ELECTION DISTRICT HOWARD COUNTY, MARYLAND

*[Signature]* 1-9-00  
CHIEF, BUREAU OF UTILITIES DATE

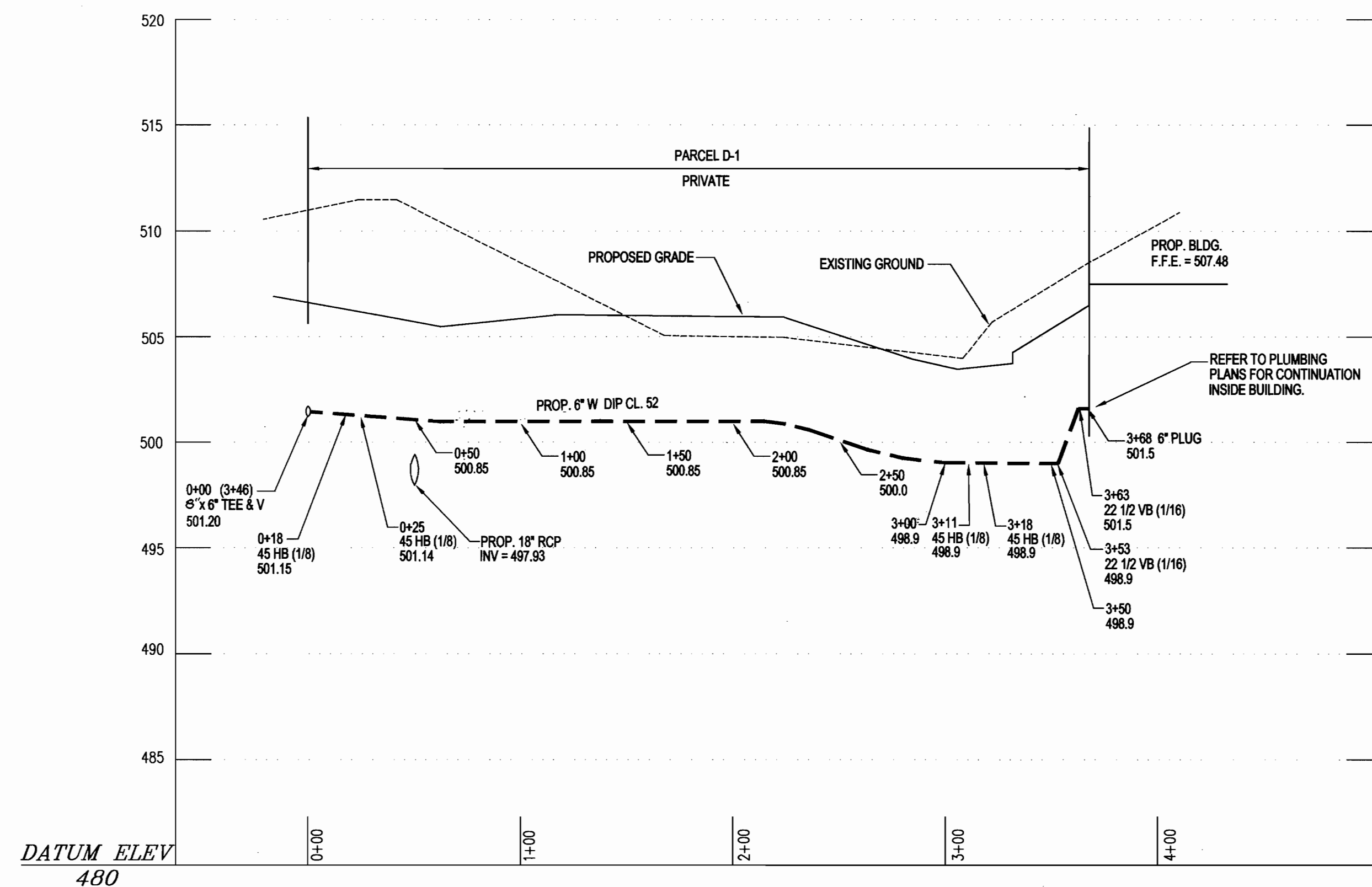
*[Signature]* 1/14/00  
CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE



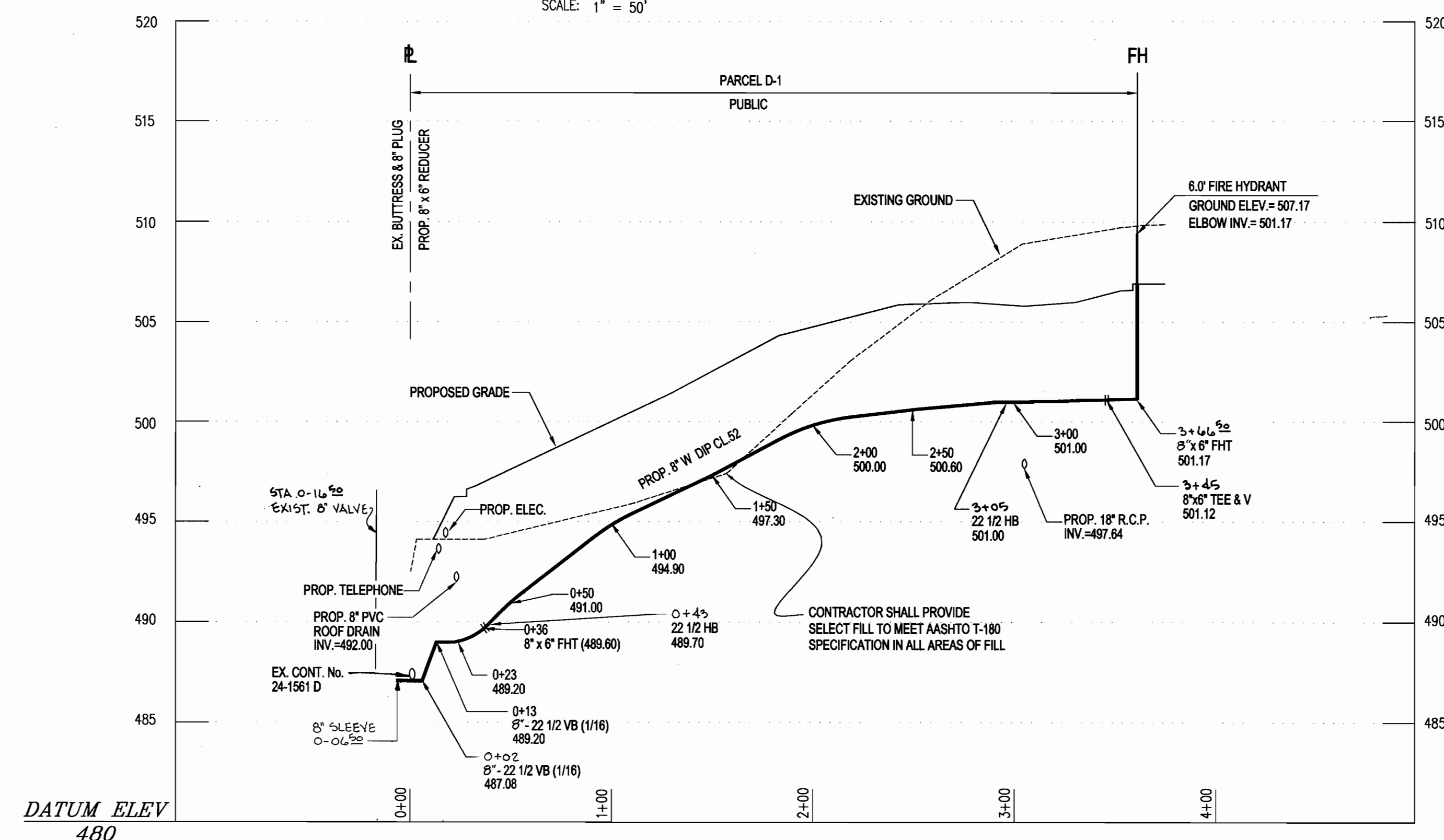
**3 PUBLIC WATER LINE PROFILE**  
 SCALE: 1" = 50' HORIZ.  
 1" = 5' VERT.



**WATER PLAN**  
 SCALE: 1" = 50'



**1 PRIVATE WATER LINE PROFILE**  
 SCALE: 1" = 50' HORIZ.  
 1" = 5' VERT.



**2 PUBLIC WATER LINE PROFILE**  
 SCALE: 1" = 50' HORIZ.  
 1" = 5' VERT.

DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND  <i>Robert M. Beaman</i> CHIEF, BUREAU OF UTILITIES 1-7-00 DATE	DEPARTMENT OF PLANNING & ZONING HOWARD COUNTY, MARYLAND  <i>John J. ...</i> CHIEF, DEVELOPMENT ENGINEERING DIVISION 1/14/00 DATE	<b>The RBA-Group</b> ENGINEERS • ARCHITECTS • PLANNERS 7164 Columbia Gateway Drive Suite 205, Columbia, Maryland 21046 Phone (410) 312-0966, Fax 312-0997		DES: MAP BY: VM DRN: VM CHK: MMR DATE: 10/21/99	NO. 1 REVISION COUNTY COMMENTS DATE 11/18/99	WATER AND SEWER EXTENSION PLAN NUMBER OF LOTS: 1 CONTRACT NO. -- 44-3815-D 600' SCALE MAP NO. 30 BLOCK NO. N/A	SECTION 1, AREA 1, PARCEL D-1 <b>COLUMBIA 100 CORPORATE CENTER</b> COLUMBIA 100 LLC COLUMBIA 100 OFFICE RESEARCH PARK RECORD PLAT #9149, ZONING POR TAX MAP 30 2nd ELECTION DISTRICT HOWARD COUNTY, MARYLAND	SCALE AS SHOWN SHEET 2 OF 2
				600' SCALE MAP NO. 30 BLOCK NO. N/A		2nd ELECTION DISTRICT HOWARD COUNTY, MARYLAND	SCALE AS SHOWN SHEET 2 OF 2	