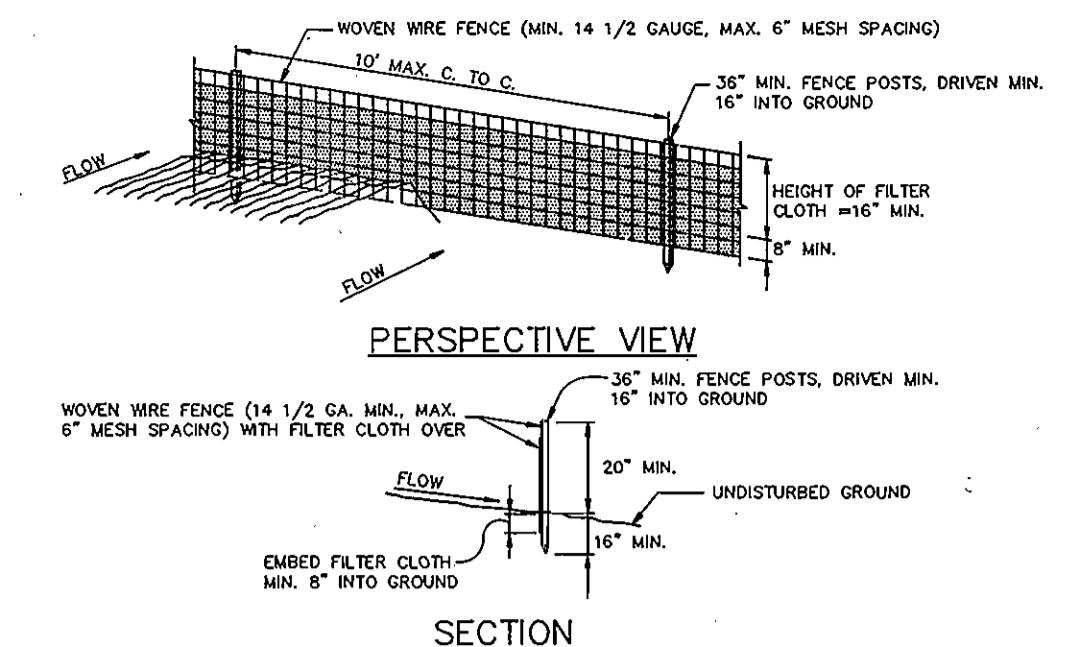


QUANTITIES				
ITEMS	QUANTITIES ESTIMATED	AS-BUILT		
		QUANTITIES	TYPE	MANUFACTURER / SUPPLIER
6" WATER	161 LF	170 L.F.	D.I.P.	
3/4" WHC	100 LF	110 L.F.	FORD	
4" OHC	75 LF	72 L.F.	P.V.C.	AMFLO
8" SEWER	100 LF	213 L.F.	P.V.C.	AMFLO
4'-0" DIA. MANHOLES	2 EA	2 TOTAL	PRE-CAST BRICK PRE-CAST	A.P. PIPE ATLANTIC MA
NAME OF UTILITY CONTRACTOR: BILL WALK INC.				
CHECKBOX				
AS-BUILT DATE				
SURVEY AND DRAFTING DIVISION				

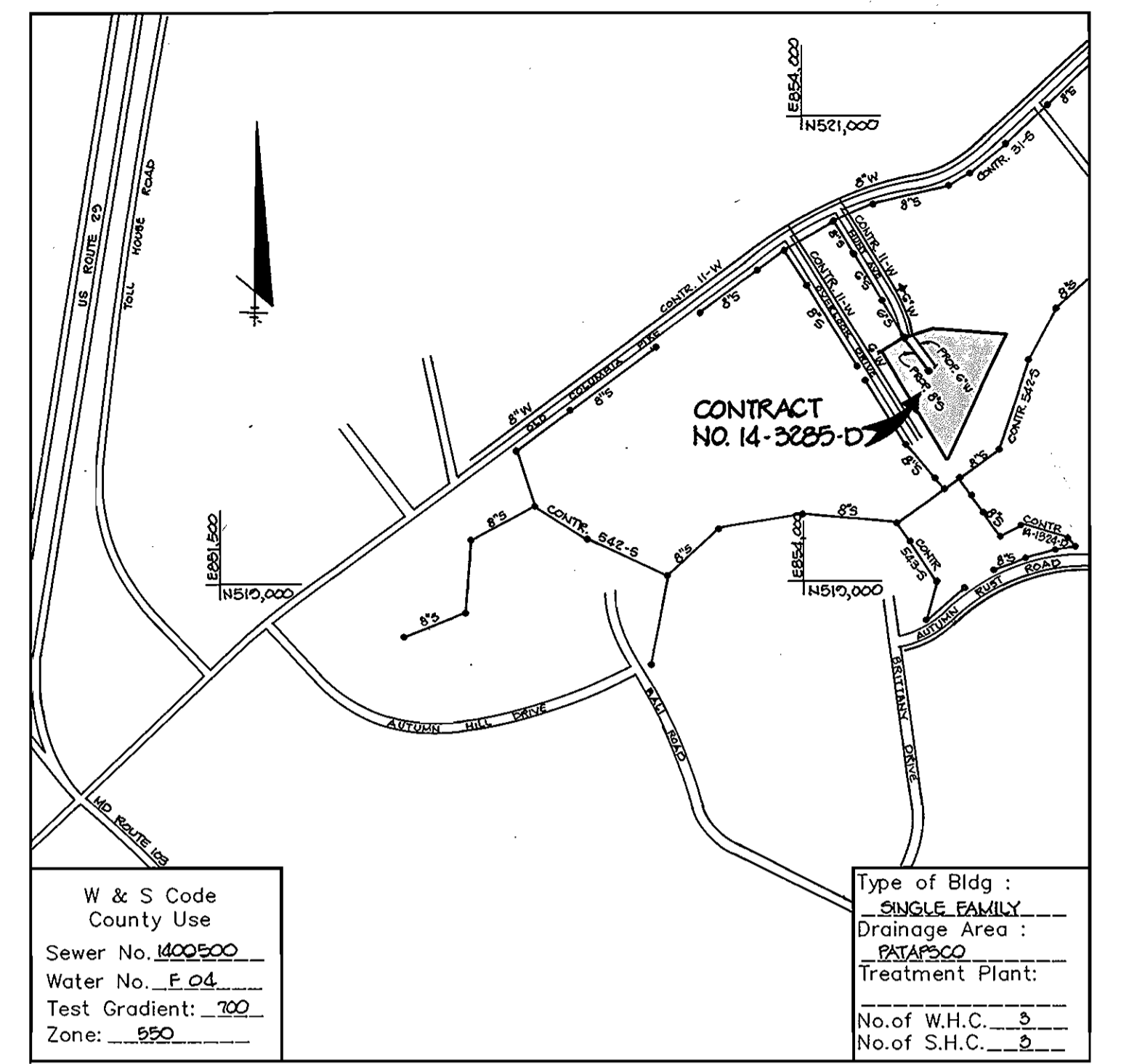


CONSTRUCTION NOTES FOR FABRICATED SILT FENCE

- WOVEN WIRE FENCE TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES AND STAPLES.
- FILTER CLOTH TO BE FASTENED TO WOVEN WIRE FENCE WITH TIES SPACED EVERY 24" AT TOP AND MID SECTION.
- WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVERLAPPED BY SIX INCHES (6") AND FASTENED.
- MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN "BULGES" DEVELOP IN THE SILT FENCE.

POSTS: STEEL, EITHER T OR U TYPE OR 2" HARDWOOD.
 FENCE: WOVEN WIRE, 14 GA. 2" MAX. MESH OPENING.
 FILTER CLOTH: FILTER #1 HIRAY 1000, STABURKA T140N OR APPROVED EQUAL.
 PREFABRICATED UNIT: GEOFAB, ENVIROFENCE, OR APPROVED EQUAL.

SILT FENCE DETAIL
 NO SCALE



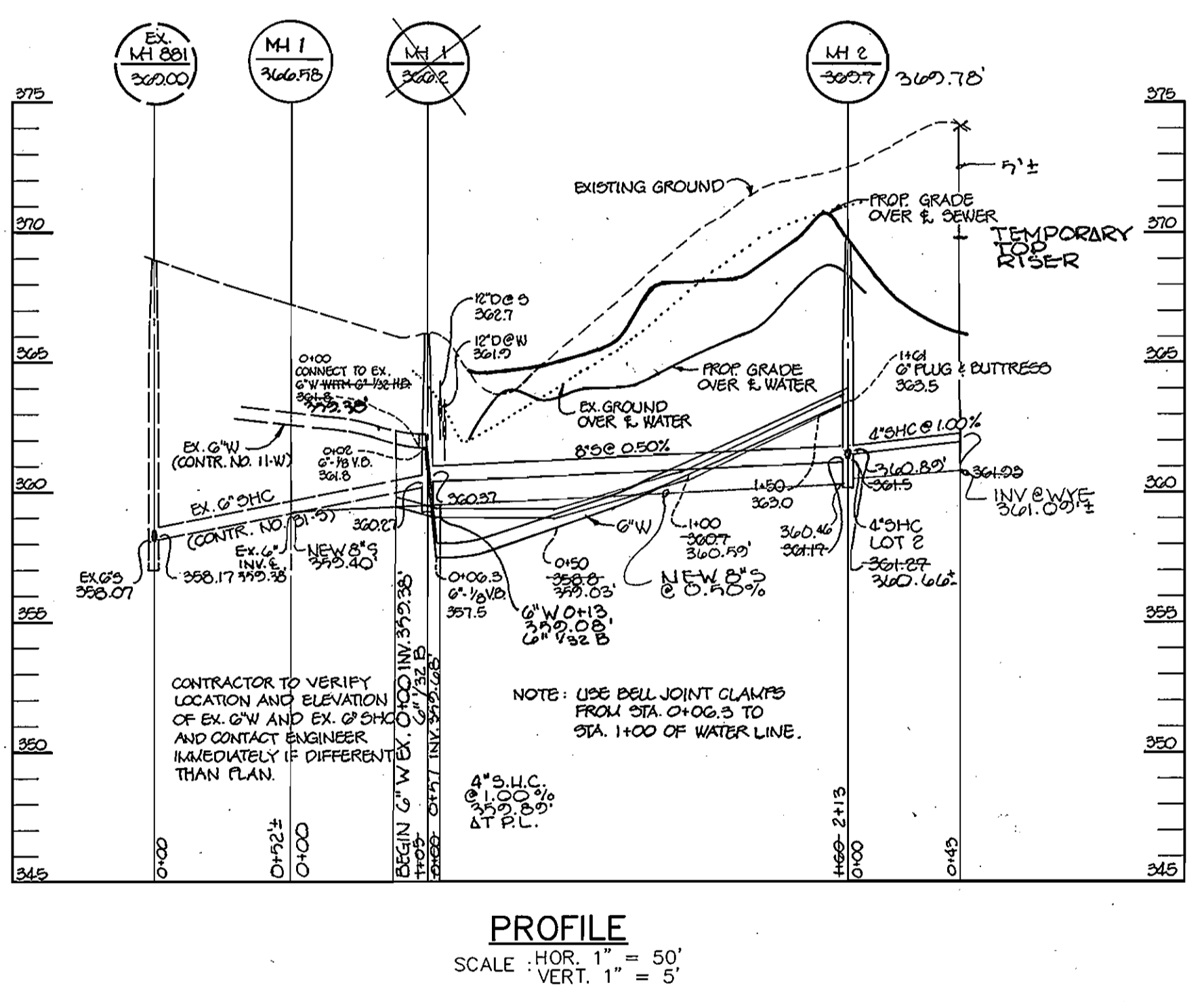
W & S Code
 County Use
 Sewer No. **400500**
 Water No. **F.04**
 Test Gradient: **700**
 Zone: **850**

Type of Bldg: **SINGLE FAMILY**
 Drainage Area: **PAVEMENT**
 Treatment Plant:
 No. of W.H.C.: **0**
 No. of S.H.C.: **0**

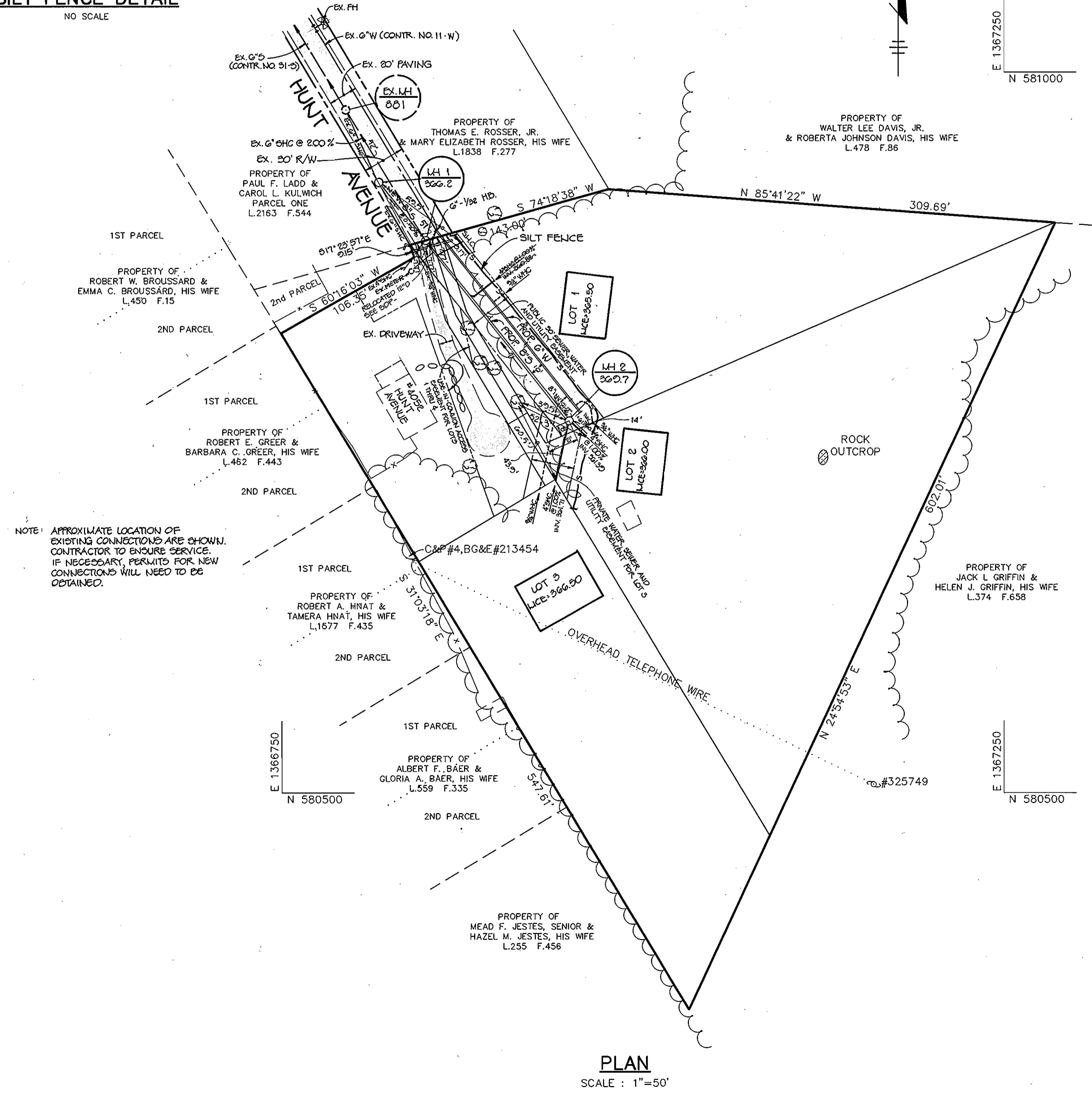
VICINITY MAP
 SCALE: 1"=600'

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 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 damage 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 of the location of this 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 531-5533
 Baltimore Gas & Electric Co. Contractor Services 850-4620
 Baltimore Gas & Electric Co. Underground Damage Control 787-3068
 Mile Utility 1-800-257-1777
 Colonial Pipeline Co. 785-1390
 Bureau of Utilities, Howard County Department of Public Works 313-4500
- Trees 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.
- All water mains to be D.I.P. Class 52 unless otherwise noted.
- Top of all water mains to have a minimum of 3'-1/2" cover unless otherwise noted.
- Valves adjacent to trees shall be strapped to trees.
- All fittings shall be buttressed or anchored with concrete in accordance with the Standard Detail 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 Detail. 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 other system.
- All water house connections shall be for inside meter setting unless otherwise noted on plans or in specifications.
- All sewer mains shall be DIP, RCP, VCP, CSPX, RCP and P.V.C. unless otherwise noted.
- The contractor shall provide a joint in all sewer mains within 2'-0" of exterior manhole 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 16" walls are for brick manholes only.
- Manholes designated W.T. in plan and profile shall have watertight frame and cover. Standard Detail G2.52. Where watertight manhole frame and cover is used, set top of frame 1'-0" above finished grade unless otherwise noted on the drawings.
- House(s) with the symbol "C.N.S." indicates that cellar cannot be served.
- THE MINIMUM CELLAR ELEVATIONS SHOWN FOR LOT #1, 2, AND 3 SHALL BE USED IN SITE DEVELOPMENT PLANS OR IN BUILDING PLANS. AT THE TIME OF THE BUILDING PERMIT, IF THE CELLAR ELEVATION IS LOWER THAN WHAT THE WATER AND SEWER PLANS ARE SHOWN, THEN THE BUILDING PERMIT WILL NOT BE ISSUED.



PROFILE
 SCALE: HOR. 1" = 50'
 VERT. 1" = 5'



PLAN
 SCALE: 1"=50'

Sediment control measures for this contract will be implemented in accordance with Section 219 of the Specifications.

Howard Soil Conservation District

Review for Howard Soil Conservation District and meets technical requirements.

Don M. Walker 2/6/93
 U.S. SOIL CONSERVATION SERVICE DATE

This plan is approved for soil erosion and sediment control by the Howard Soil Conservation District.

Howard Soil Conservation District 2/3/93 DATE

BENCH MARKS

BM #1 ELEV. 386.132
 3/4" REBAR 0.5' BELOW SURFACE, 15' SOUTHWEST OF E OLD COLUMBIA PIKE, 65' NORTHEAST OF E DRIVEWAY TO HOUSE #5003.

BM #2 ELEV. 356.553
 CONCRETE MONUMENT AT SURFACE, 20.5' NORTH OF E OLD COLUMBIA PIKE, 108' EAST OF E OVERLOOK DRIVE.

DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND

James M. Sullivan 2/8/93 DIRECTOR OF PUBLIC WORKS DATE
Michael A. Swainwell 6-25-93 CHIEF, BUREAU OF UTILITIES DATE

Paul J. Szymon 7/8/93 CHIEF, BUREAU OF ENGINEERING DATE
Howard Land Development 7/8/93 CHIEF, LAND DEVELOPMENT DATE

RIEMER MUEGGE & ASSOCIATES, INC.
 A Land Planning, Engineering and Consulting Firm
 8818 Centre Park Drive • Suite 200 • Columbia, Md 21045
 410-997-8900 FAX: 410-997-9282



DES: DAM			
DRN: WAD			
CHK: CJR			
DATE: 6-21-93			
BY: WAD	NO. 1	ADDED BELL JOINT CLAMPS NOTE TO PROFILE	8-10-93
REVISION			

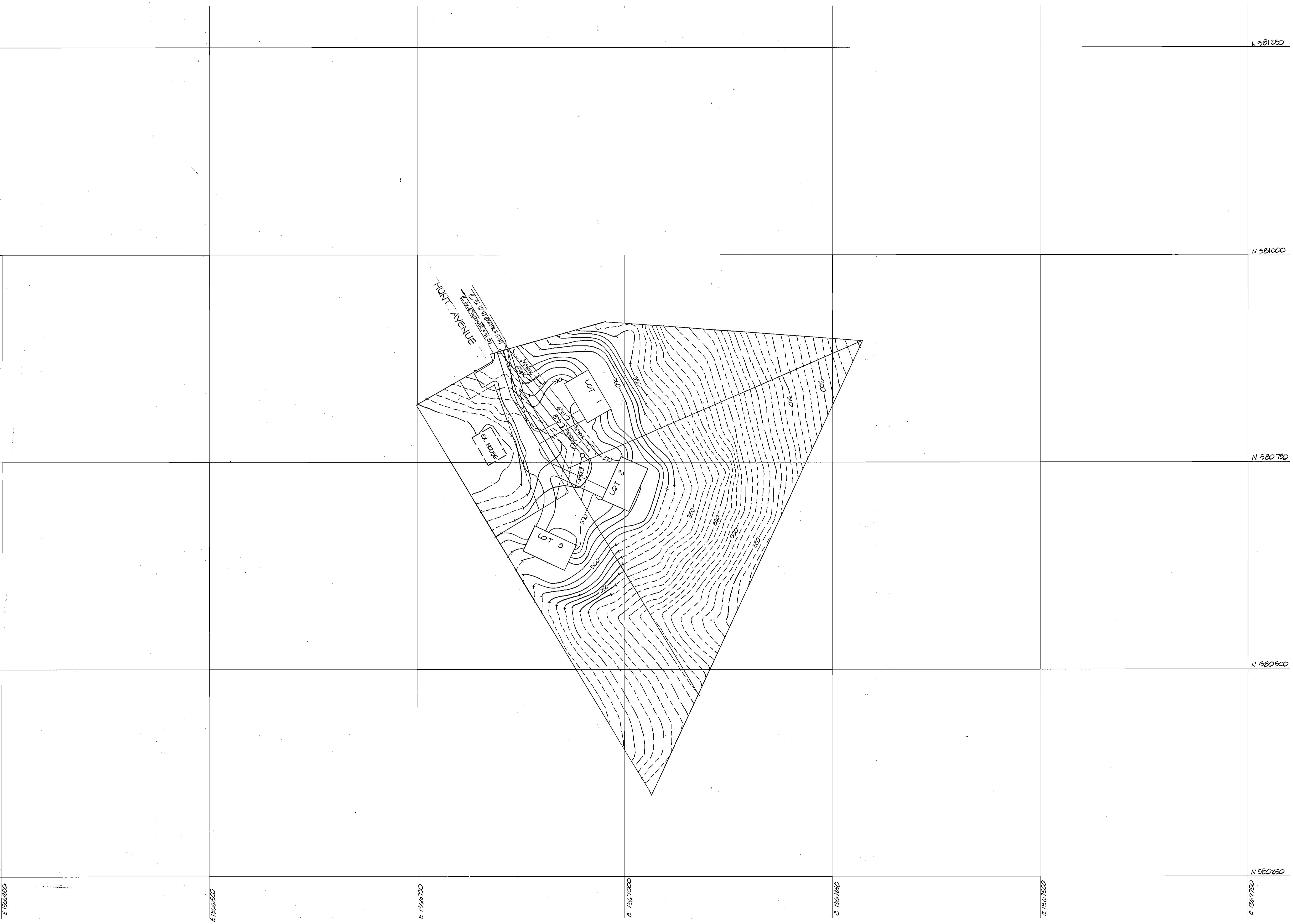
**PLAN AND PROFILE OF
 WATER AND SEWER MAINS**

600' SCALE MAP NO. 25 BLOCK NO. 13

**HUNTINGTON WOODS
 LOTS 1 - 4
 CONTRACT NO. 14-3285-D
 2nd ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND**

SCALE AS SHOWN
 SHEET 1 OF 1

3285 Pos. ShT. #1



HOWARD COUNTY
 DEPARTMENT OF PUBLIC WORKS
 BUREAU OF ENGINEERING
 SURVEY & DRAFTING DIVISION

Scale : 1" = 50'

Map No. 3285