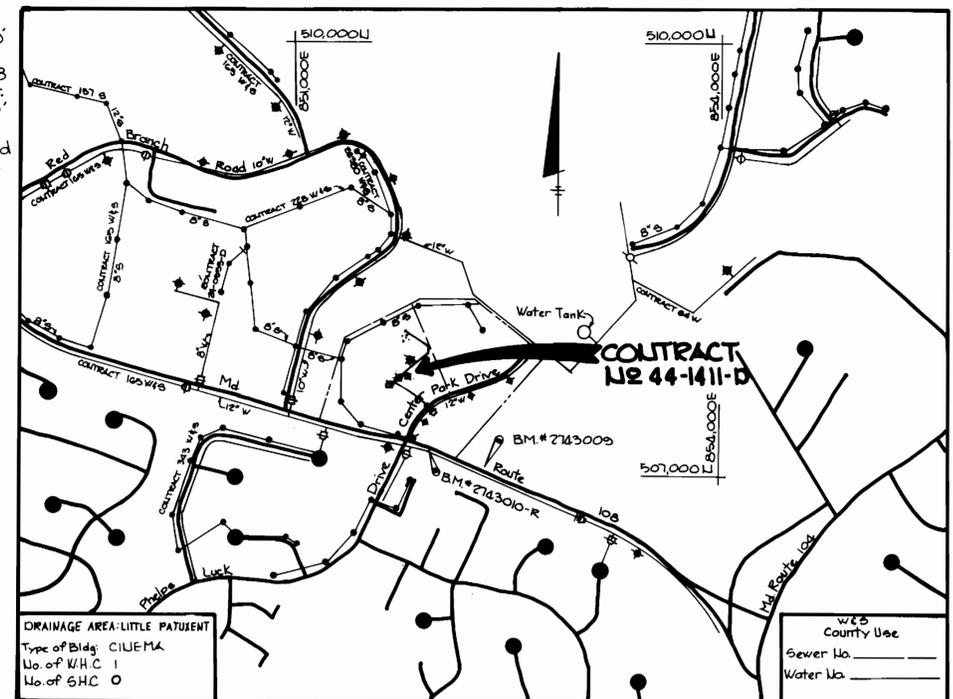


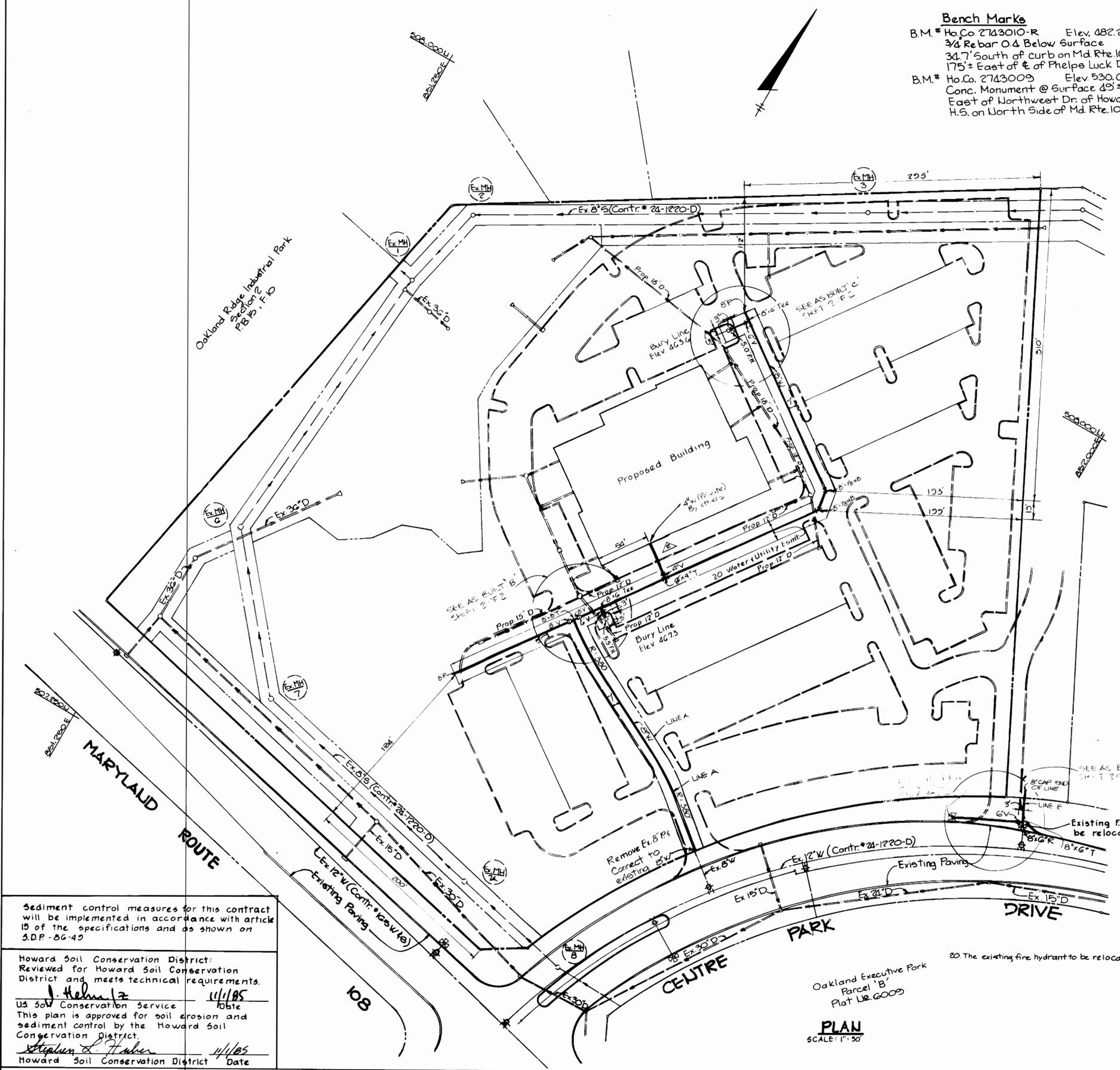
**Bench Marks**  
 B.M. # Ho.Co 2743010-R Elev. 482.29'  
 3/4 Rebar 0.4 Below Surface  
 34.7' South of curb on Md. Rte. 108  
 175'± East of E. of Phelps Luck Dr.  
 B.M. # Ho.Co. 2743009 Elev. 530.07'  
 Conc. Monument @ Surface 43'±  
 East of Northwest Dr. of Howard  
 H.S. on North Side of Md. Rte. 108



**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 the bracing of the additional poles or damages shall be deducted from the money owed to 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 material and construction methods, use Howard County Design Manual, Volume IV, Standard Specifications and Details for Construction. 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 symbol  $\square$  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 utilities 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 - 561-2565
    - Baltimore Gas & Electric Co. Underground Damage Control - 234-5621
    - Baltimore Gas & Electric Co. Trouble Shooting - 298-2015
    - Miss Utility - 1-552-0100
    - Colonial Pipeline Co. - 795-1520
    - Bureau of Utilities, Howard County Department of Public Works - 292-2366
  - Trees are to be protected from damage to the maximum extent. Trees 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 as directed by the Engineer. Payment for such removal shall be included in the price bid for excavation & backfill.
  - Place regulation "Men Working" and warning signs as required to comply with Maryland State Highway Administration Manual of Traffic Control for Highway Construction and Maintenance Operation.
  - All water mains to be D.I.P. unless otherwise noted.
  - Top of all water mains to have a minimum of 3/4' cover unless otherwise noted.
  - Valves adjacent to tees shall be strapped to tees.
  - Block all fittings with concrete.
  - Bury line elevations on fire hydrants shall be set to the 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 to be compacted in accordance with Section 1003 & 1006 of the General Requirements for Water and Sewer.
  - All water house connections shall be for an inside meter setting.
  - The contractor shall not operate any water main valves on the existing system.
  - For all copper water house connections, utilize flared type fittings only.

ITEM	ESTIMATED AS BUILT	MATERIAL SUPPLIER
8" Water	25 LF	203 LF BELAIR ROAD SUPPLY
8" V	2	" " " "
6" Water	84 LF	233 LF " " " "
6" V	"	" " " "
F.H.	3	2 NEW RELOCATED " " " "
4" Water	10 LF	40 LF TO WHE " " " "
4" V	1	" " " "



**PLAN**  
 SCALE: 1"=30'

Sediment control measures for this contract will be implemented in accordance with article 19 of the specifications and as shown on S.D.P. 86-49

Howard Soil Conservation District: Reviewed for Howard Soil Conservation District and meets technical requirements.  
*J. Hehnert* 11/1/85 Date

US Soil Conservation Service: This plan is approved for soil erosion and sediment control by the Howard Soil Conservation District.  
*Stephen L. Haber* 11/1/85 Date  
 Howard Soil Conservation District

DEPARTMENT OF PUBLIC WORKS  
 HOWARD COUNTY, MARYLAND

*John F. Nemy* 10-4-87  
 DIRECTOR OF PUBLIC WORKS DATE

*Richard A. Jones* 11-11-85  
 CHIEF, BUREAU OF ENGINEERING DATE

*Richard A. Jones* 11-11-85  
 CHIEF LAND DEVELOPMENT DIVISION DATE

THE RIEMER GROUP, INC.  
 3105 HEALTH PARK DRIVE  
 ELLICOTT CITY, MARYLAND 21043

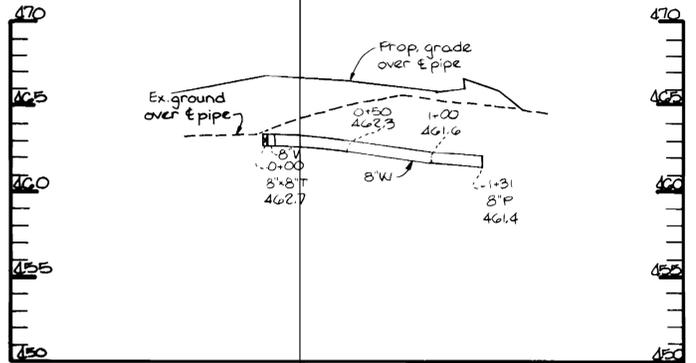


DES: J.K.B.			
DRN: B.A.C.	REVISD PER AC FULT	11/1/85	
CHK: D.A.M.	REVISD WATER SERVICE SIZE TO 4"	11/1/85	
DATE: 8-27-85	RELOCATED WATER SERVICE TO BUILDING	12/1/85	
BY: NO.	ADDED 4\"/>		

**PLAN OF A WATER MAIN**

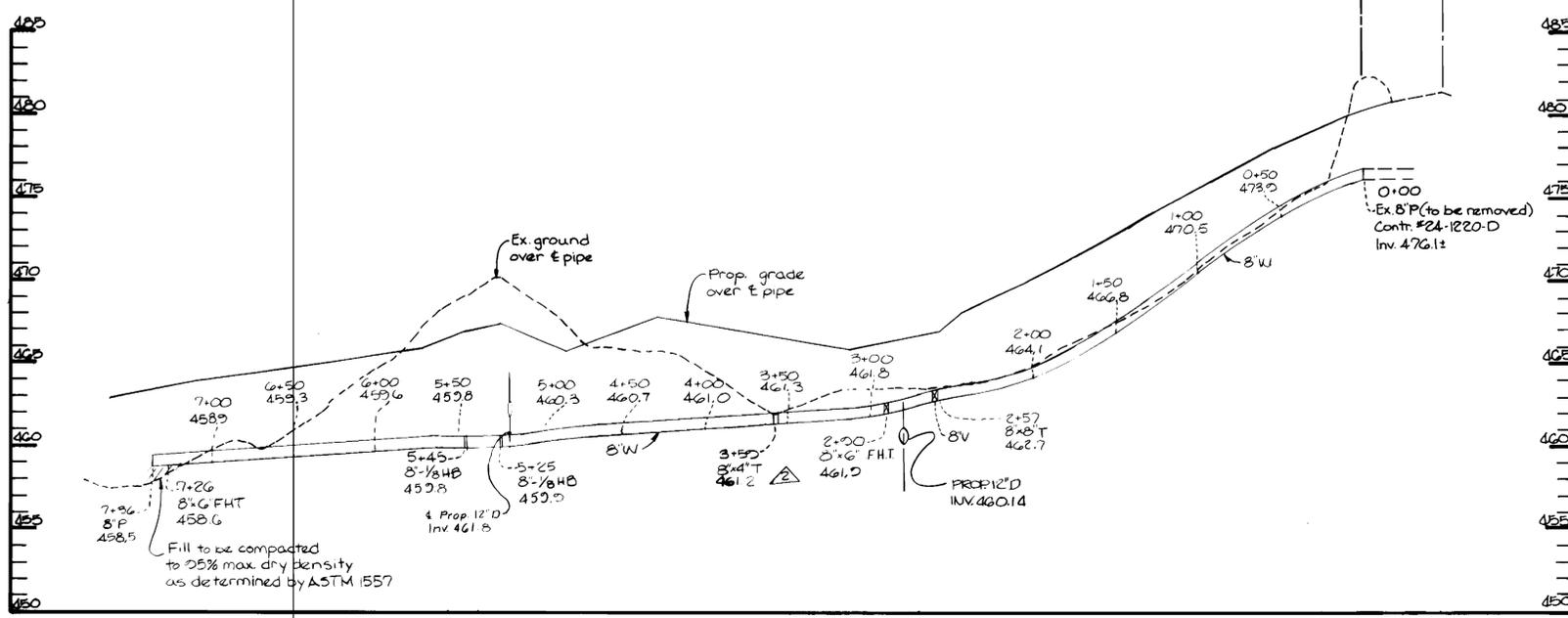
COLUMBIA PALACE NINE  
 PARCEL A-1  
 OAKLAND EXECUTIVE PARK  
 ELECTION DISTRICT NO. 2  
 CONTRACT NO. 44-1411-D

SCALE AS SHOWN  
 SHEET 1 OF 2



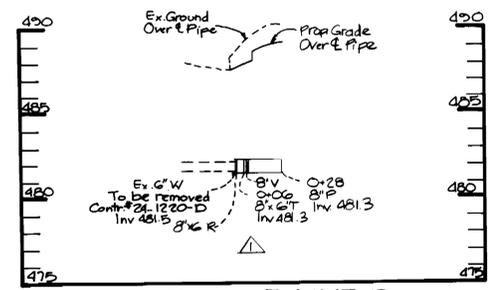
**PROFILE LINE A**

SCALE: HORIZ: 1"=50'  
VERT: 1"=5'



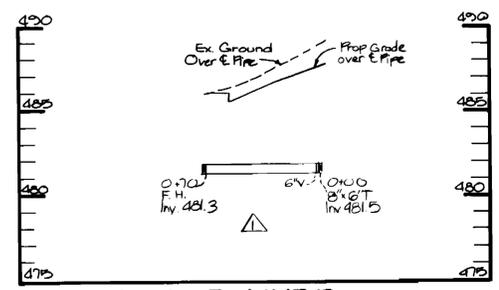
**PROFILE LINE A**

SCALE: HORIZ: 1"=50'  
VERT: 1"=5'



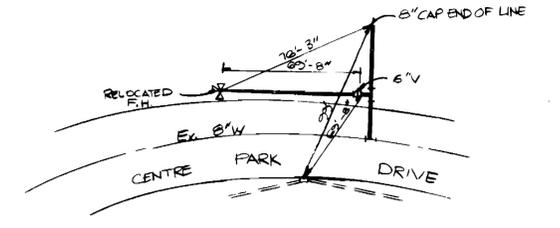
**PROFILE LINE B**

SCALE: HORIZ: 1"=50'  
VERT: 1"=5'

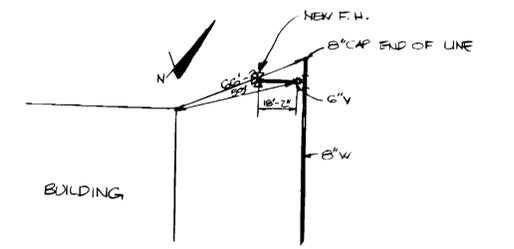


**PROFILE LINE B**

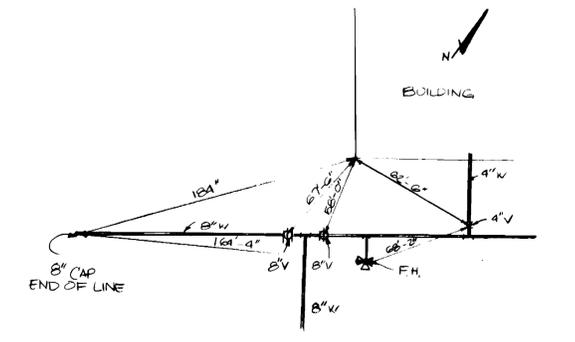
SCALE: HORIZ: 1"=50'  
VERT: 1"=5'



AS BUILT 'A'  
NO SCALE



AS BUILT 'C'  
NO SCALE



AS BUILT 'B'  
NO SCALE

DEPARTMENT OF PUBLIC WORKS  
HOWARD COUNTY, MARYLAND  
11-8-85  
DIRECTOR OF PUBLIC WORKS  
10-20-85  
CHIEF BUREAU OF UTILITIES

THE RIEMER GROUP, INC.  
3105 HEALTH PARK DRIVE  
ELLCOTT CITY, MARYLAND 21043



DES: JKB					
DRN: DAM					
CHK: DAM	BY	NO.	REVISION	DATE	
			REVISED FOR AS BUILT	6/1/85	
			RELOCATED 8" x 4" T F.H. W/C (LINE A)	12/1/85	
			ADDED PROFILE OF LINE B	10/20/85	
DATE: 8-27-85					

PROFILE OF A WATER MAIN  
600' SCALE MAP NO. 30 BLOCK NO.

COLUMBIA PALACE NINE  
PARCEL A-1  
OAKLAND EXECUTIVE PARK  
ELECTION DISTRICT NO. 2  
CONTRACT NO. 44-1411-D

SCALE AS SHOWN  
SHEET 2 OF 2