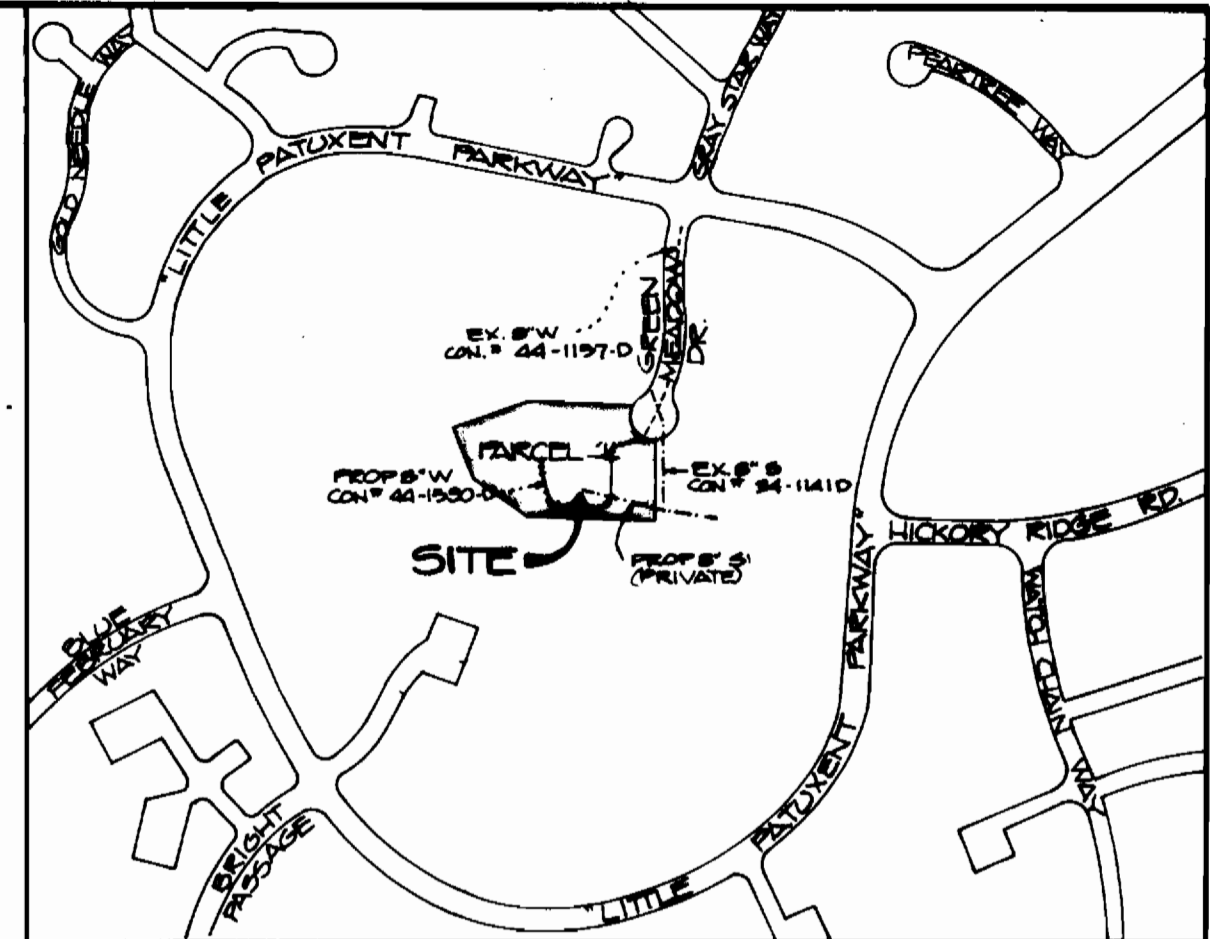


QUANTITIES			
ITEM	ESTIMATED	AS BUILT	MATERIAL SUPPLIER
8" WATER MAIN	690 LF	663.5	U.S. CENT DUCTILE
6" WATER MAIN	68 LF	73.6	U.S. CENT DUCTILE
8" TEE	3	3	U.S. PIPE & FOUNDRY
6" VALVE	1	1	U.S. PIPE & FOUNDRY
6" VALVE	3	3	U.S. PIPE & FOUNDRY
6" F.H.	3	3	U.S. PIPE & FOUNDRY
8"x8" T.S. & V.	1	1	U.S. PIPE & FOUNDRY

IRON WATERWORK INC. DIP  
 IRON WATERWORK INC. DIP  
 BRS SUPPLY CO.  
 BRS SUPPLY CO.  
 BRS SUPPLY CO.  
 BRS SUPPLY CO.

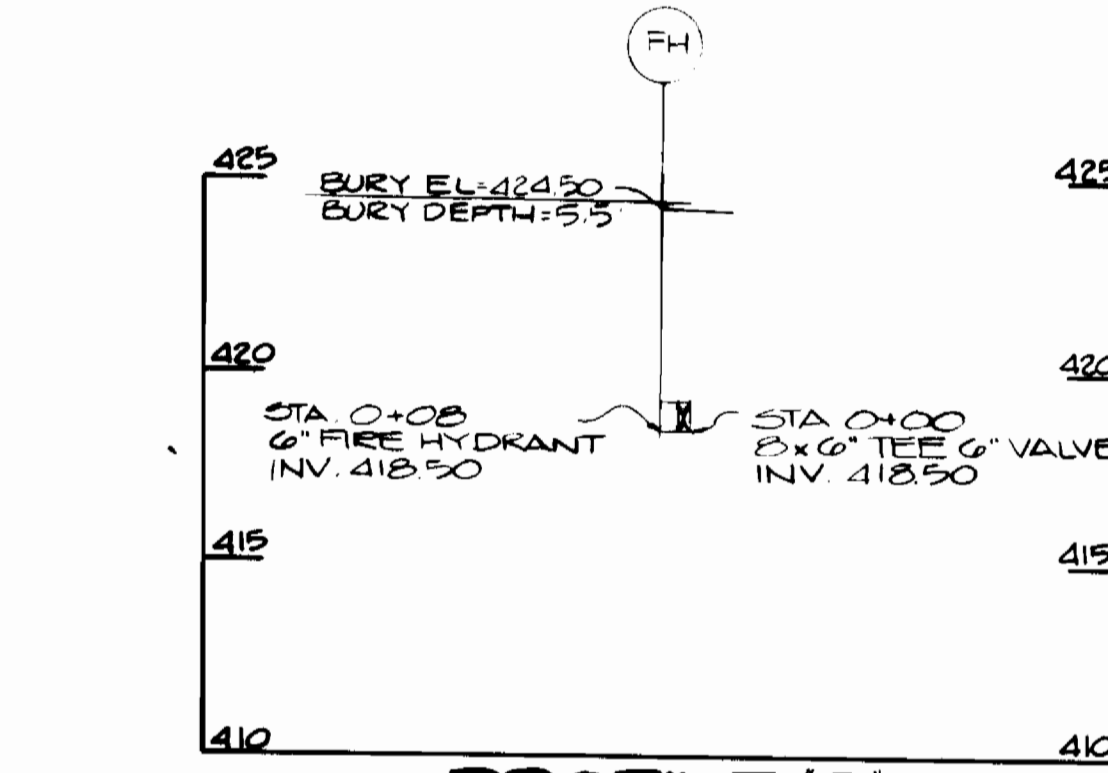
DRAINAGE AREA = MIDDLE PATKENT  
 NUMBER OF S.H.C. = 1  
 NUMBER OF W.H.C. = 1  
 WATER CODE = 1-15  
 SEWER CODE = 6999000



**VICINITY MAP**  
 SCALE: 1" = 600'

**GENERAL NOTES**

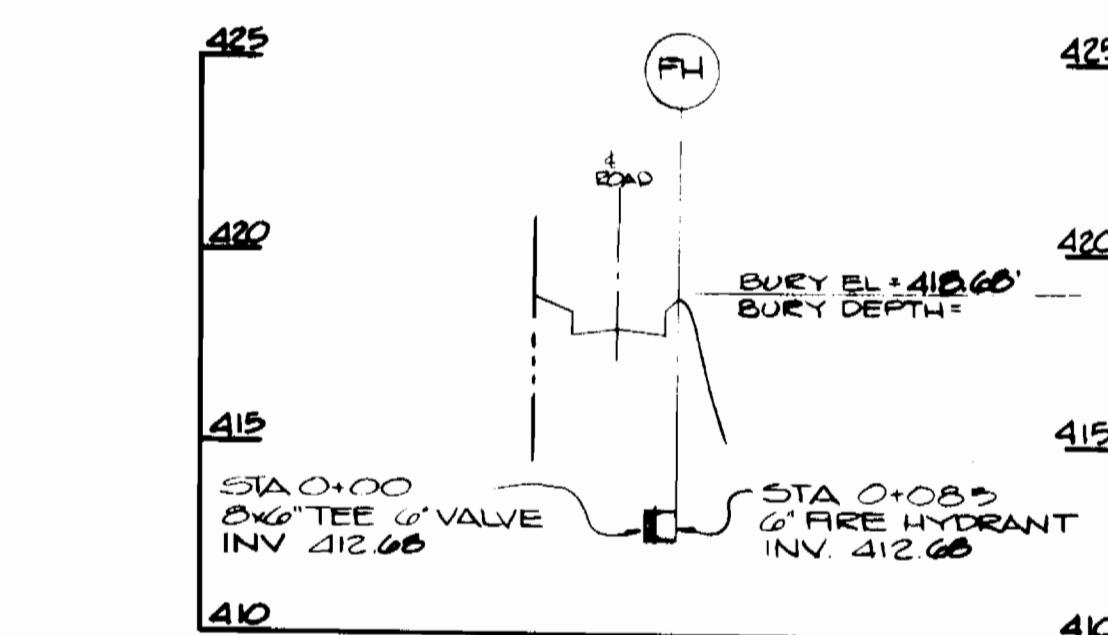
- EXISTING UTILITIES SHOWN HEREON ARE COMPILED FROM FIELD SURVEYS DATED APRIL 1986 AND FROM THE FOLLOWING CONTRACT DRAWINGS:  
 WATER - CONTRACT NO. 44-1157-D  
 SANITARY SEWER - CONTRACT NO. 34-1141-D  
 STORM DRAIN AND ROAD - PLAN F-84-07 SH 2
- ALL HORIZONTAL CONTROL IS BASED ON THE MARYLAND STATE PLANE COORDINATE SYSTEM, HOWARD COUNTY TRAVERSE STATIONS 2639002 AND 2739004  
 VERTICAL CONTROL IS BASED ON STATION 2639002 ELEVATION 464.203
- THE LOCATION OF EXISTING UNDERGROUND UTILITIES IS TAKEN FROM THE REFERENCED CONTRACT DRAWING AND IS APPROXIMATE. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT EXISTING WATER MAINS, SANITARY SEWERS, AND STORM DRAINS FROM DAMAGE AND TO PROVIDE FOR UNINTERRUPTED SERVICE. ANY DAMAGE INCURRED SHALL BE REPAIRED IMMEDIATELY TO THE SATISFACTION OF THE ENGINEER AT THE EXPENSE AND LIABILITY OF THE CONTRACTOR. EXISTING UTILITIES IN THE VICINITY OF THE PROPOSED WORK SHALL BE LOCATED BY TEST PITS TWO WEEKS PRIOR TO CONSTRUCTION AT HIS OWN EXPENSE.
- THE CONTRACTOR SHALL NOTIFY THE FOLLOWING UTILITIES OF AGENCIES AT LEAST FIVE WORKING DAYS BEFORE STARTING WORK SHOWN ON THESE PLANS:  
 BALTIMORE GAS AND ELECTRIC COMPANY  
 o CONTRACTOR SERVICES 561-2585  
 o UNDERGROUND DAMAGE CONTROL 234-5621  
 o TROUBLE SHOOTING 298-9013  
 MISS UTILITY - 1-558-0100  
 HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS, BUREAU OF UTILITIES - 992-1366
- FOR DETAILS NOT SHOWN ON THE DRAWING AND FOR MATERIALS AND CONSTRUCTION METHODS, SEE THE HOWARD COUNTY DESIGN MANUAL, VOLUME IV, STANDARD SPECIFICATIONS AND DETAILS FOR DESIGN AND CONSTRUCTION. THE CONTRACTOR SHALL MAINTAIN A COPY OF VOLUME IV ON THE JOB SITE.
- THE CONTRACTOR SHALL REMOVE ALL 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 AND BACKFILL.
- ALL PIPE ELEVATIONS SHOWN ARE INVERT @ ELEVATIONS.
- CLEAR ALL UTILITIES BY A MINIMUM OF 1'.
- ALL WATER MAINS SHALL BE D.I.P. CLASS 52 UNLESS OTHERWISE NOTED.
- TOP OF ALL WATER MAINS SHALL HAVE A MINIMUM 1/2 FEET OF COVER UNLESS OTHERWISE NOTED.
- VALVES ADJACENT TO TREES SHALL BE STRAPPED TO TREES.
- BLACK ALL FITTINGS WITH CONCRETE IN ACCORDANCE WITH STANDARD DETAILS.
- FIRE HYDRANTS SHALL BE SET TO THE RUBY LINE ELEVATIONS SHOWN ON THE DRAWING. FIRE HYDRANTS SHALL BE STRAPPED AND BURRED IN ACCORDANCE WITH STANDARD DETAILS. SOIL AROUND FIRE HYDRANTS SHALL BE COMPACTED IN ACCORDANCE WITH SECTION 1003 AND 1008 OF THE STANDARD SPECIFICATIONS.
- THE CONTRACTOR SHALL NOT OPERATE ANY WATER MAIN VALVES ON THE EXISTING SYSTEM.
- WATER HOUSE CONNECTION SHALL BE FOR INSIDE METER SETTING
- WATER MAINS AND WATER HOUSE CONNECTION LINES SHALL BE PLACED SO AS TO HAVE AT LEAST ONE (1) FOOT SEPARATION FROM THE SEWER MAIN OR SEWER HOUSE CONNECTION AS THEY PASS ABOUT.



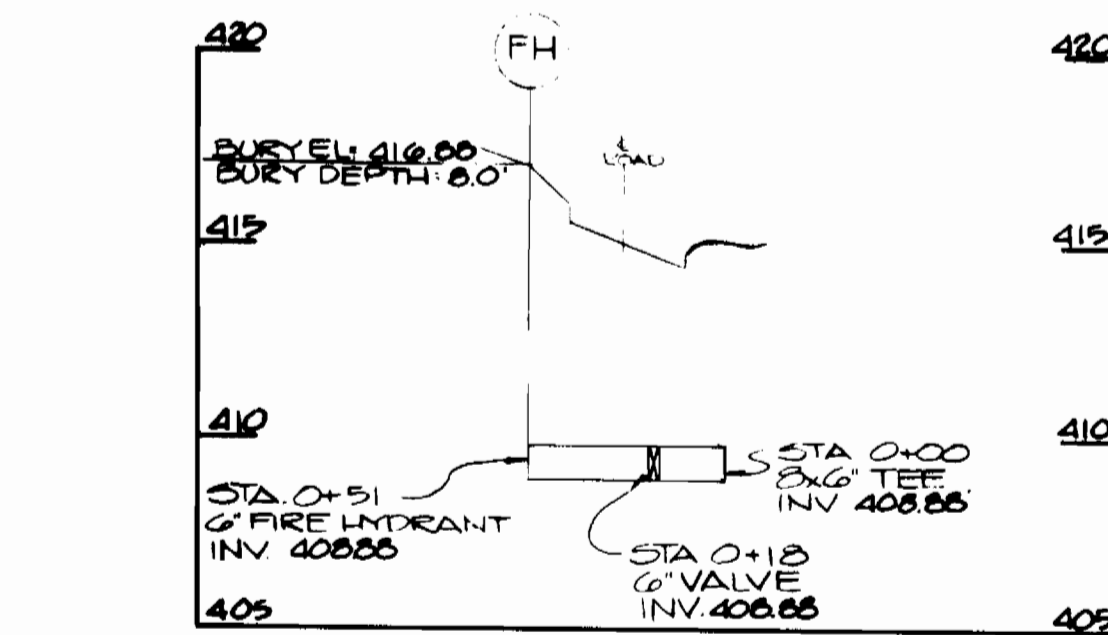
**PROFILE 'D'**  
 SCALE H:1"=50'  
 V:1"=5'

**NOTES:**

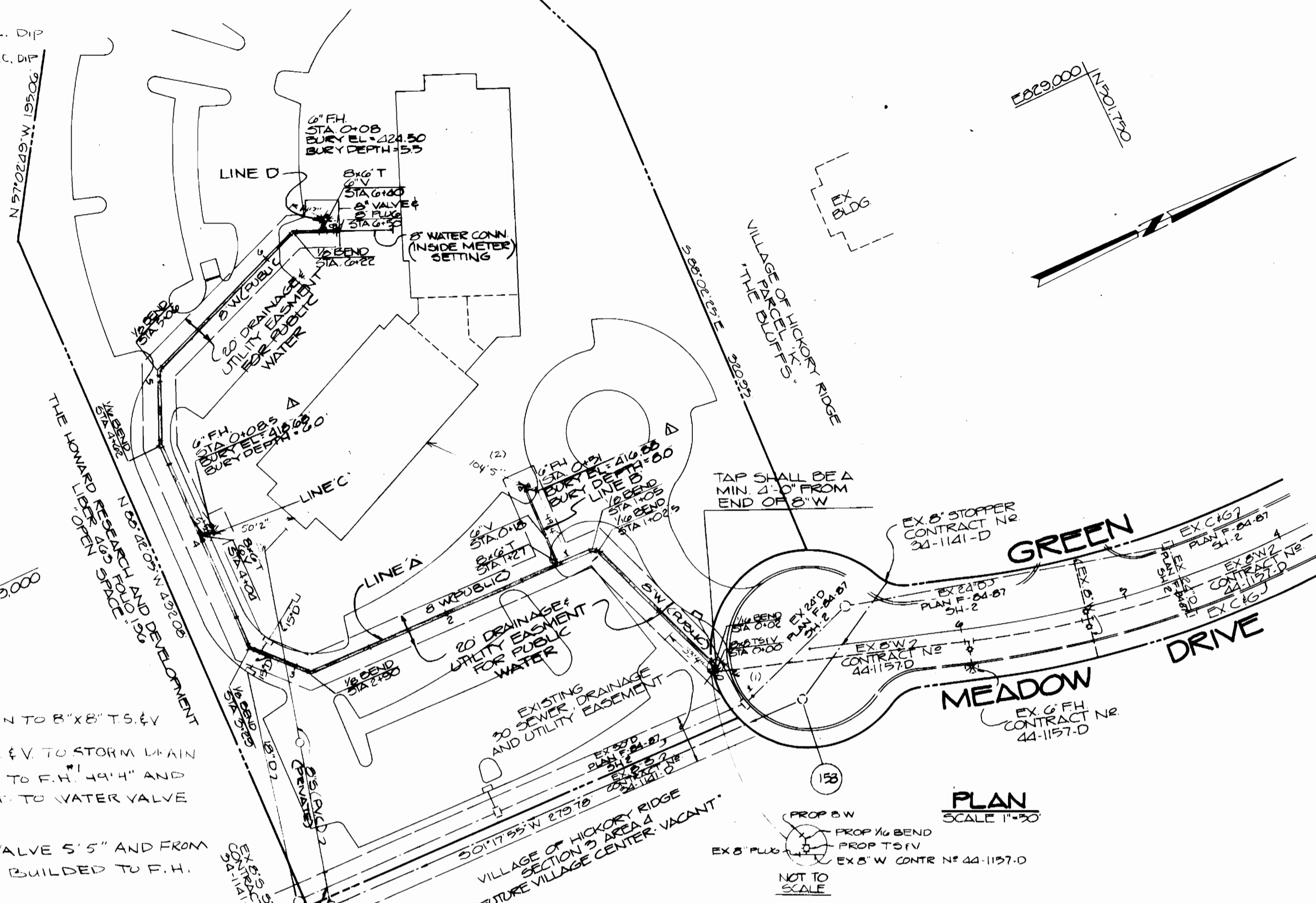
- EX STORM MAIN TO 8"x8" T.S. & V. FROM 8"x8" T.S. & V. TO STORM MAIN FROM BUILDING TO WATER VALVE 104'5"
- F.H. #2 TO F.H. VALVE 5'5" AND FROM DOORWAY OF BUILT TO F.H. VALVE 50'2"
- BACK OF CURB TO F.H. #1 14'7" AND FROM F.H. TO F.H. VALVE 6'8"



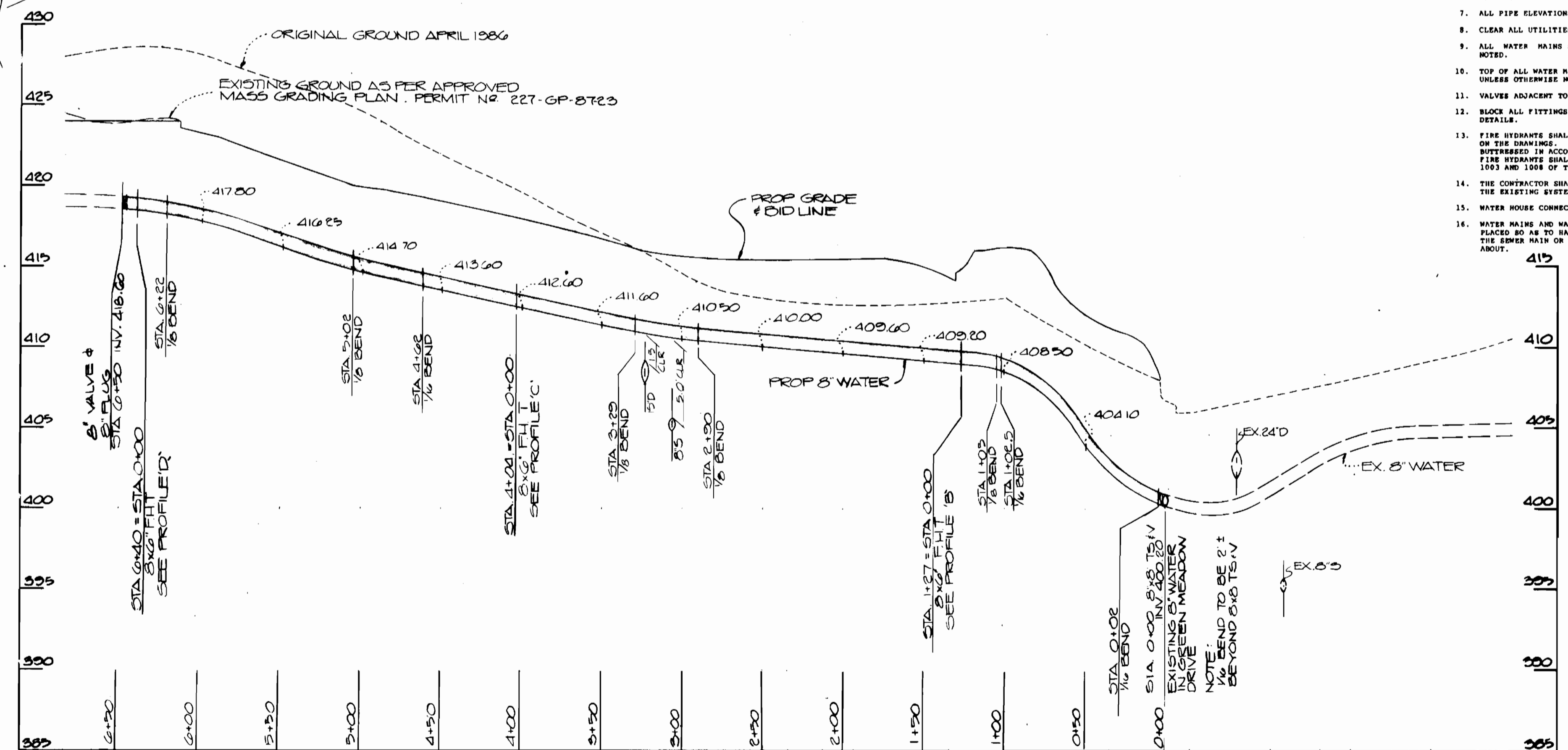
**PROFILE 'C'**  
 SCALE H:1"=50'  
 V:1"=5'



**PROFILE 'B'**  
 SCALE H:1"=50'  
 V:1"=5'



**PLAN**  
 SCALE 1"=50'



**PROFILE 'A'**  
 SCALE H:1"=50'  
 V:1"=5'

THIS DEVELOPMENT PLAN IS APPROVED FOR EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.  
 APPROVED: *Stephen L. Fisher* 2/6/87  
 HOWARD SOIL CONSERVATION DISTRICT DATE

REVIEW FOR HOWARD COUNTY SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS.  
*James M. Helm* 2-5-87  
 JCS SOIL CONSERVATION DISTRICT DATE

NOTE: SEDIMENT CONTROL MEASURES FOR THIS CONTRACT WILL BE IMPLEMENTED IN ACCORDANCE WITH SECTION 219 OF THE SPECIFICATION AND AS PER SOP-87-119C

DEPARTMENT OF PUBLIC WORKS  
 HOWARD COUNTY, MD.  
*W. F. Nunn* 2-6-87  
 DIRECTOR OF PUBLIC WORKS - DATE  
*SA J. B. Bunch* 2-5-87  
 CHIEF - BUREAU OF UTILITIES - DATE  
*James M. Helm* 2-5-87  
 CHIEF - LAND DEVELOPMENT DIVISION - DATE

**ENGINEER**  
 D.S. THALER & ASSOC. INC.  
 11 WARREN ROAD  
 BALTIMORE, MD 21208  
 (301) 484-4100

**OWNER / DEVELOPER**  
 AMERICAN RESIDENTIAL PROPERTIES OF THE NORTHEAST, INC.  
 10719 CHARTER DRIVE  
 COLUMBIA, MARYLAND 21044  
 (301) 730-4240 (MR. GERALD J. RYAN)

DES. SAC.	
DRN. SAC.	
CHK.	
DATE	
BY	
NO.	
REVISION	
DATE	

**PLAN & PROFILES OF WATER MAIN EXTENSION**

**COLUMBIA VILLAGE OF HICKORY RIDGE SECTION 3 AREA 4 ELECTION DISTRICT NO. 5 CONTRACT NO. 44-1990-D**  
 AS-BUILT  
 8-17-87 DATE

SCALE AS SHOWN  
 SHEET 1 OF 1

