

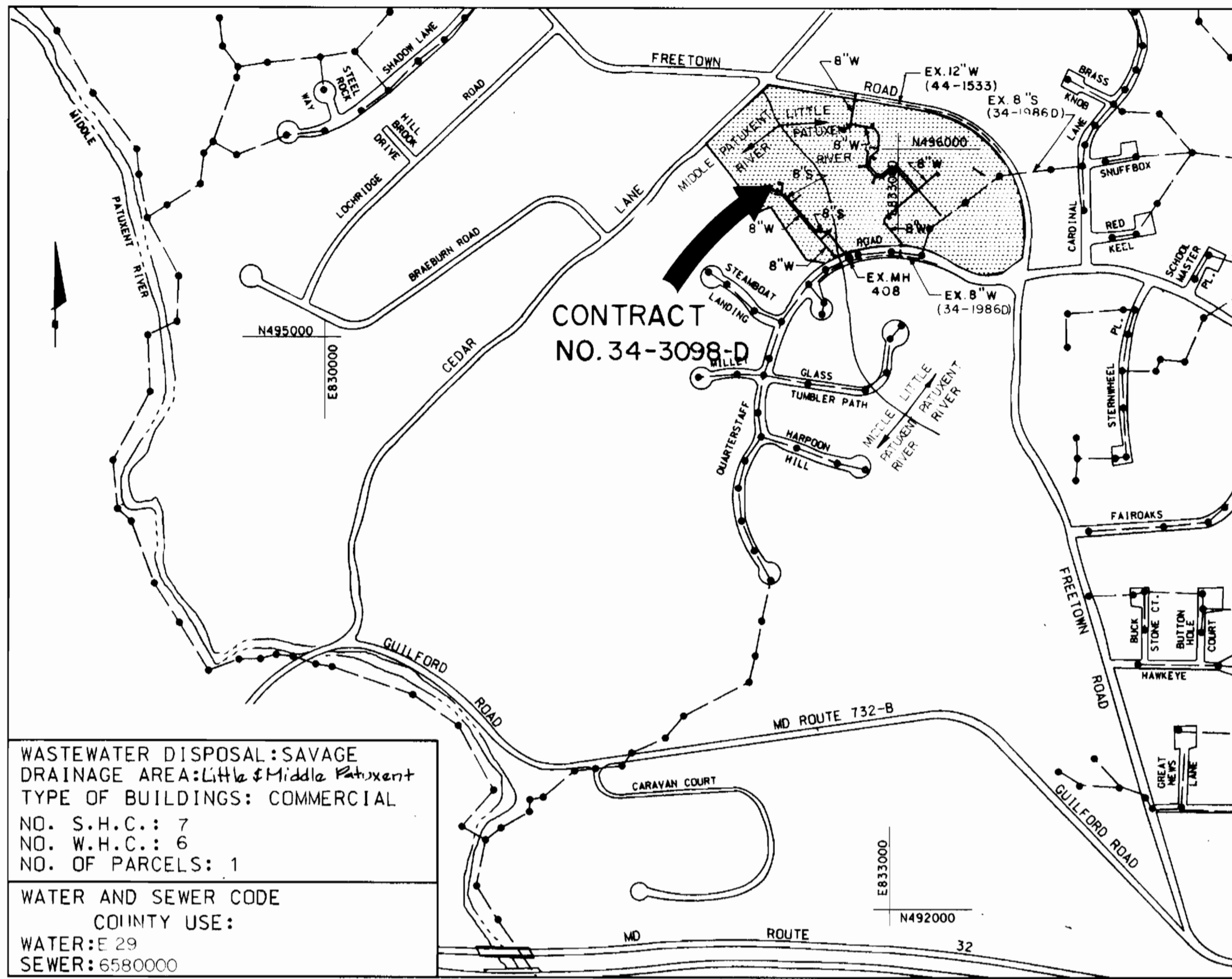
QUANTITIES			
ITEM	BID	AS-BUILT	MATERIAL/SUPPLIER
8" WATER L.F.	1830	894.5	GRIFFIN PIPE
8" VALVES EA.	3	5	KENNEDY
FIRE HYDRANTS EA.	6	6	KENNEDY
8" SEWER L.F.	350	351	AMERICAN
MANHOLES EA.	5	4	ATLANTIC
DROP MANHOLES EA.	1	1	ATLANTIC
6" WATER L.F.	160	162.5	GRIFFIN
6" VALVE EA.	5	4	KENNEDY
6" C.H.C.	30	38.5	AMERICAN
8" D.I.P. SEWER L.F.	146	130	GRIFFIN
6" S.H.C. L.F.	220		
3/4" Water L.F.	10		
1" Water L.F.	10		

**NOTE**

(1) Building "B" Proposed Supermarket Part of Parcel "A" is in Middle Patuxent Drainage Area. Middle Patuxent Advalem and in Aid of Constructions Charge are Applicable.

(2) Building "A" Proposed Retail Stores Part of Parcel "A" are in the Little Patuxent Drainage Area. Middle Patuxent Drainage Area Fees are Not Applicable.

WASTEWATER DISPOSAL: SAVAGE DRAINAGE AREA: Little & Middle Patuxent  
 TYPE OF BUILDINGS: COMMERCIAL  
 NO. S.H.C.: 7  
 NO. W.H.C.: 6  
 NO. OF PARCELS: 1  
 WATER AND SEWER CODE  
 COUNTY USE:  
 WATER: E 29  
 SEWER: 6580000



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. DATUM.
- 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.
- FOR DETAILS NOT SHOWN ON THE DRAWINGS, AND FOR MATERIALS AND CONSTRUCTION METHODS, USE HOWARD COUNTY DESIGN MANUAL, VOLUME IV, STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION, 1989 ADDENDUM. 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 VERIFIED BY THE CONTRACTOR TO HIS OWN SATISFACTION. ANY DAMAGE TO EXISTING FACILITIES DUE TO THE CONTRACTOR'S NEGLIGENCE SHALL BE REPAIRED AT THE CONTRACTOR'S 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 AND ELECTRIC CO. - CONTRACTOR SERVICES - 850-4620
  - BALTIMORE GAS AND ELECTRIC CO. - UNDERGROUND DAMAGE CONTROL - 859-9009
  - BALTIMORE GAS AND ELECTRIC CO. - TROUBLE SHOOTING - 298-9001
  - MISS UTILITY - 1-800-257-7777
  - COLONIAL PIPELINE CO. - 795-1390/C&P TELEPHONE CO. - 1-800-257-7777
  - BUREAU OF UTILITIES HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS - 992-2366
- TREES AND SHRUBS ARE TO BE PROTECTED FROM DAMAGE TO A 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.
- ALL WATER MAINS TO BE D.I.P. CLASS 52 UNLESS OTHERWISE NOTED.
- ALL D.I.P. FITTINGS SHALL BE IN ACCORDANCE WITH AWWA SPECIFICATIONS C-158 DUCTILE IRON COMPACT FITTINGS, 3-INCH THROUGH 12-INCH FOR WATER AND OTHER LIQUIDS.
- 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 AND 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 DETILS. SOIL AROUND THE FIRE HYDRANT SHALL BE COMPACTED IN ACCORDANCE WITH SECTION 1005 OF THE STANDARD SPECIFICATIONS.
- THE CONTRACTOR SHALL NOT OPERATE ANY WATER MAIN VALVES ON THE EXISTING WATER SYSTEM.
- ALL SEWER MAINS SHALL BE C.S.P.X..D.I.P..V.C.P.X. 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.
- FOR MANHOLES IN OPEN SPACE OR OUTFALL, SET TOP OF FRAME 1.5' ABOVE FINISHED GRADE UNLESS OTHERWISE NOTED ON THE DRAWINGS.
- ALL WATER HOUSE CONNECTIONS SHALL BE FOR INSIDE METER SETTINGS, UNLESS OTHERWISE NOTED ON THE PLANS OR IN THE SPECIFICATIONS.

CONTRACT NO. 34-3098-D  
 VILLAGE OF HICKORY RIDGE  
 VILLAGE CENTER  
 HOWARD COUNTY, MARYLAND  
 DEPARTMENT OF PUBLIC WORKS

**BENCH MARKS**

HOWARD CO. MON. #2439001 ELEV. 418.615

HUB & TACK EDGE WEST PAVEMENT FREETOWN ROAD AT INTERSECTION WITH QUARTERSTAFF ROAD.  
 N 494415.1240 E 833503.0310

HOWARD CO. MON. #2440001 ELEV. 420.849

HUB & TACK 60' SOUTH OF C&P POLE #162272 AND 8' EAST EDGE OF PAVEMENT FREETOWN ROAD.  
 N 493066.2960 E 834257.5230

VILLAGE OF HICKORY RIDGE  
 SECTION 6 AREA 3 PARCEL #A  
 VILLAGE CENTER

REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENT  
*John M. Hester* 2/26/91  
 SIGNATURE DATE  
 U.S. SOIL CONSERVATION SERVICE

This Development plan is approved for Soil Erosion and Sediment Control by the Howard County Conservation District APPROVED  
*John L. Robertson* 2/26/91  
 SIGNATURE DATE  
 HOWARD S.C.D.

Sediment Control Measures for this Contract will be implemented in accordance with Section 219 of the Standard Specifications, F-90-97

DEPARTMENT OF PUBLIC WORKS  
 HOWARD COUNTY, MARYLAND  
 Director of Public Works - DATE  
 Chief - Bureau of Engineering - DATE  
 Chief - Bureau of Utilities - DATE  
 Chief - Land Development Division - DATE

WHITMAN, REQUARDT AND ASSOCIATES ENGINEERS  
 2315 ST. PAUL ST.  
 BALTIMORE, MARYLAND

DESIGN	M. M.	AS-BUILT	3-20-91
DRAWING	JPW	ADDED 6" S.H.C. TO WATER AND SEWER TO MEET SO. QUANTITIES	1/27/91
CHECKED			
DATE	11-1-1	BY	NO.
REVISION		DATE	

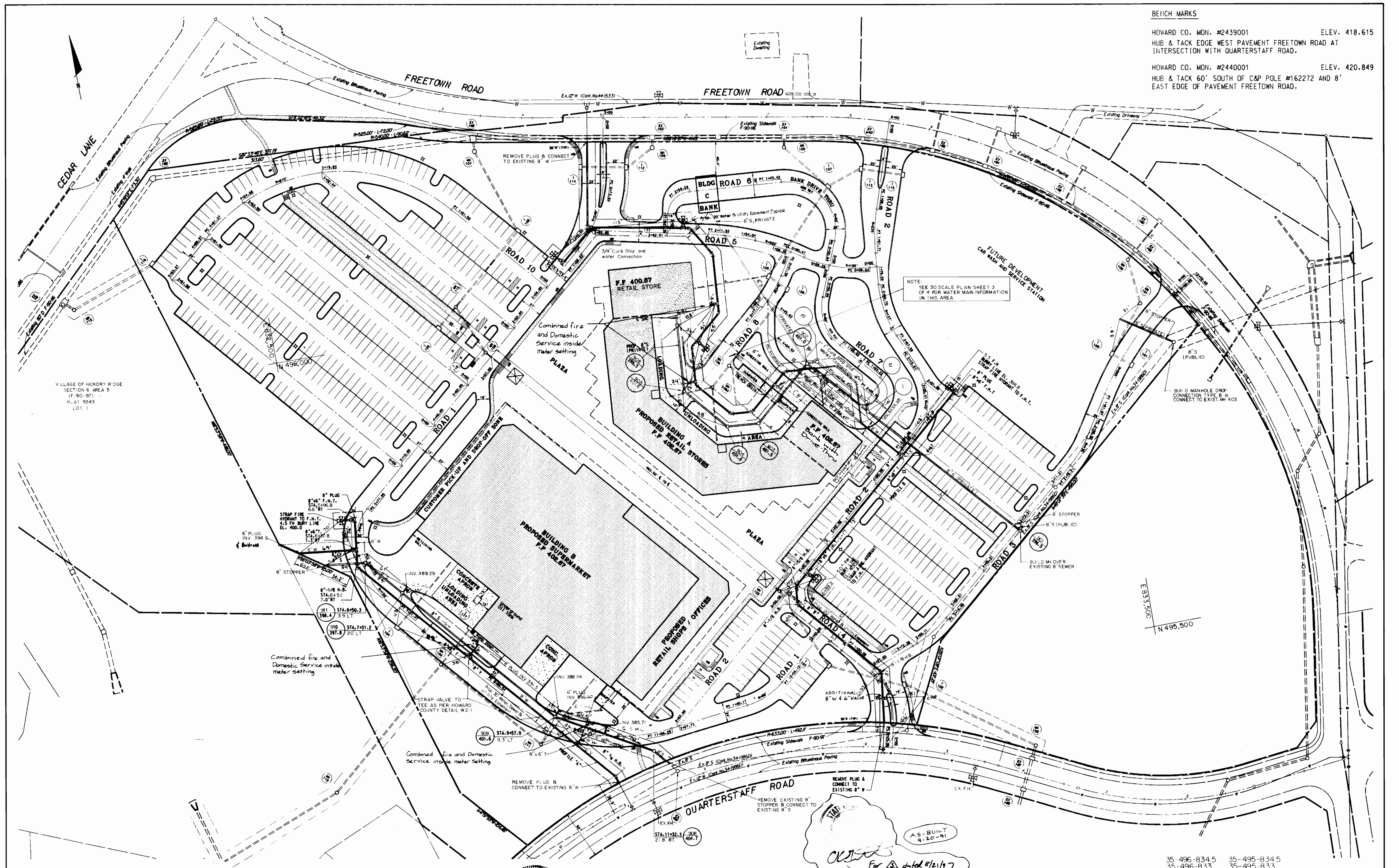
VICINITY MAP AND GENERAL NOTES  
 600' SCALE MAP NO. 35 BLOCK NO.

COLUMBIA  
 VILLAGE OF HICKORY RIDGE  
 VILLAGE CENTER  
 ELECTION DISTRICT NO. 5  
 CONTRACT NO. 34-3098-D  
 AS-BUILT

SCALE AS SHOWN  
 SHEET 1 OF 4

**BENCH MARKS**

HOWARD CO. MON. #2439001 ELEV. 418.615  
HUB & TACK EDGE WEST PAVEMENT FREETOWN ROAD AT  
INTERSECTION WITH QUARTERSTAFF ROAD.  
HOWARD CO. MON. #2440001 ELEV. 420.849  
HUB & TACK 60' SOUTH OF C&P POLE #162272 AND 8'  
EAST EDGE OF PAVEMENT FREETOWN ROAD.



NOTE:  
SEE 30 SCALE PLAN SHEET 3  
OF 4 FOR WATER MAIN INFORMATION  
IN THIS AREA.

VLLAGE OF HICKORY RIDGE  
SECTION 6 AREA 5  
(F-90-97)  
PLAT 9343  
LOT 1

E 833.500  
N 495.500

AS-BUILT  
9-20-91  
For [Signature] dated 8/21/97

35-496-834.5 35-495-834.5  
35-496-833 35-495-833

DEPARTMENT OF PUBLIC WORKS  
HOWARD COUNTY, MARYLAND

WHITMAN, REQUARDT  
AND ASSOCIATES  
ENGINEERS  
2315 ST. PAUL ST.  
BALTIMORE, MARYLAND

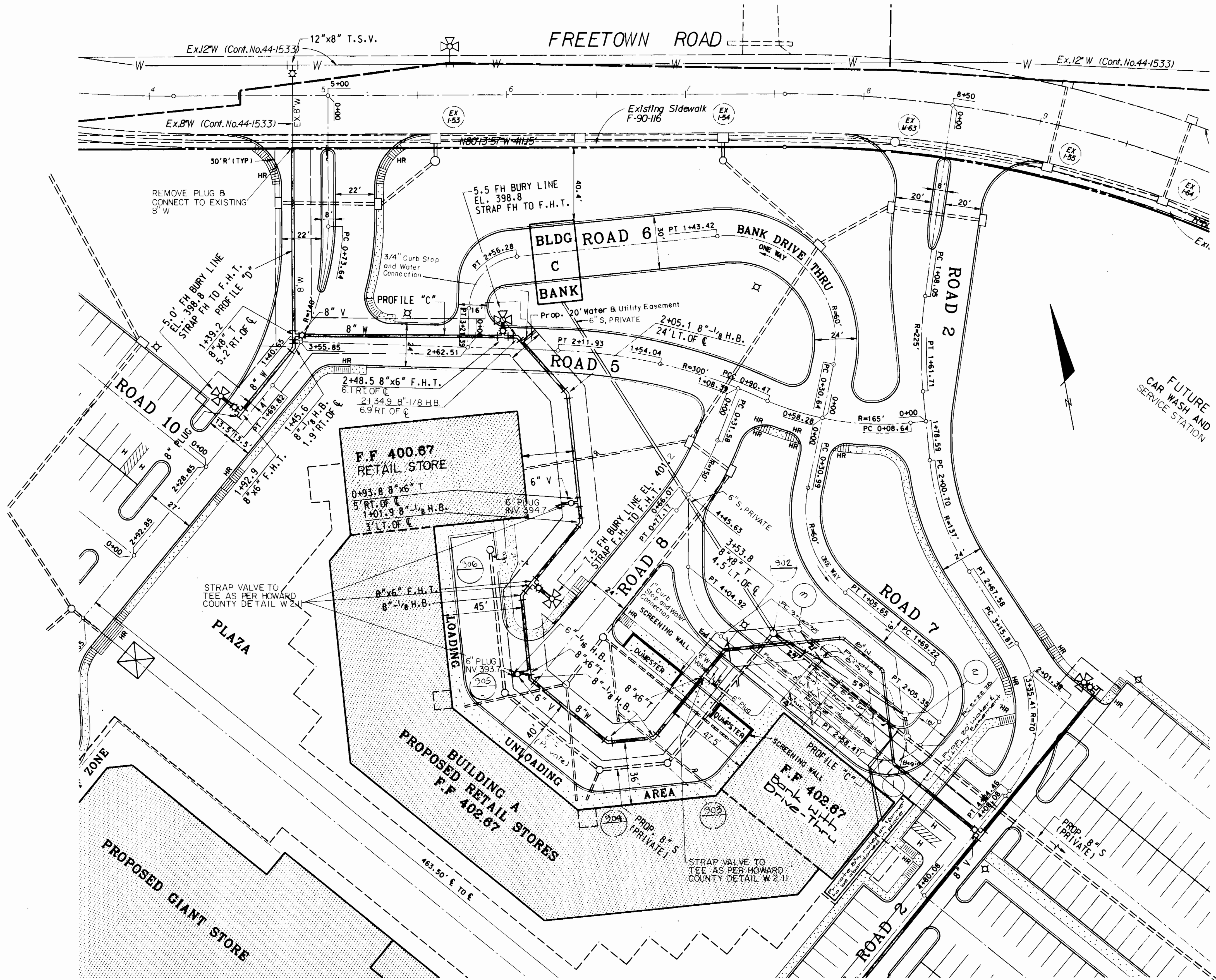


DES: T.P.	CEJ	REV B/W, PRIVATE 8'S, REV DRIVE ANGLE	8/21/97
DRN: R.H.	CEJ	REMOVE EXISTING 8\"/>	1/24/92
CHK: T.P.	M.M.	AS-BUILT	4-20-91
DATE: 1-1-91	J.B.	CHANGED INVERT OF 2\"/>	4-15-91
BY NO.		REVISION	DATE

PLAN  
WATER & SEWER MAINS

COLUMBIA  
VILLAGE OF HICKORY RIDGE  
VILLAGE CENTER  
ELECTION DISTRICT NO. 5  
CONTRACT NO. 34-3098-D

SCALE  
1" = 50'  
SHEET  
2 OF 4

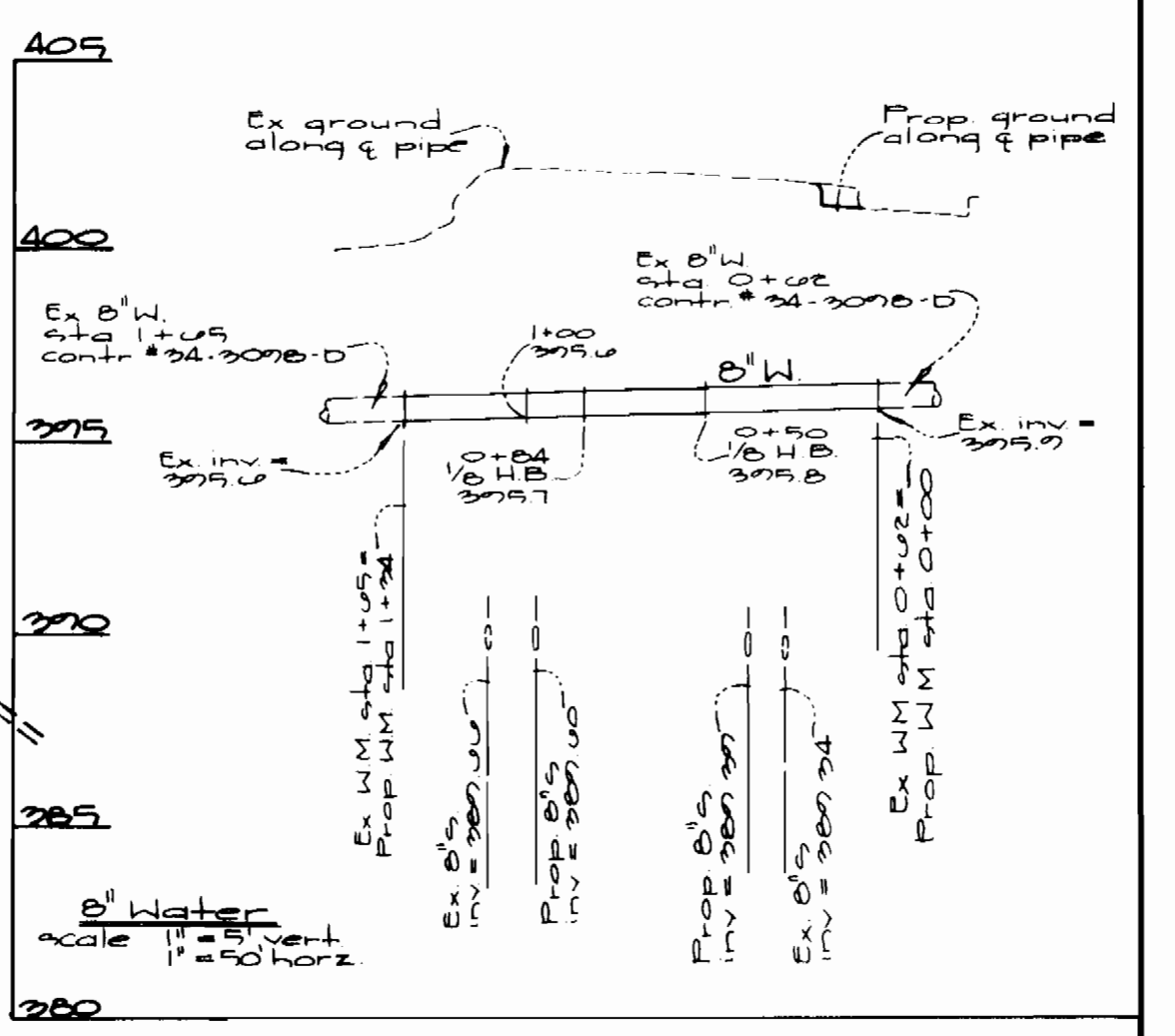


**BENCH MARKS**  
 HOWARD CO. MON. #2439001 ELEV. 418.615  
 HUB & TACK EDGE WEST PAVEMENT FREETOWN ROAD AT INTERSECTION WITH QUARTERSTAFF ROAD.  
 HOWARD CO. MON. #2440001 ELEV. 420.849  
 HUB & TACK 60' SOUTH OF C&P POLE #162272 AND 8' EAST EDGE OF PAVEMENT FREETOWN ROAD.

**AS-BUILTS: Relocation of 8" Water**

Item	Estim	Quan	Type/Class	Manufacturer
8" Water	185.1	135 LF	CL 52 DXP	Grittin Pipe

Contractor: Gains  
 Inspector: Robert A. Kilduff



*Check for Δ dated 8/21/77*

**DEPARTMENT OF PUBLIC WORKS**  
 HOWARD COUNTY, MARYLAND  
 Director of Public Works - DATE  
 Chief Bureau of Engineering - DATE  
 Chief Bureau of Utilities - DATE  
 Chief Land Development Division - DATE

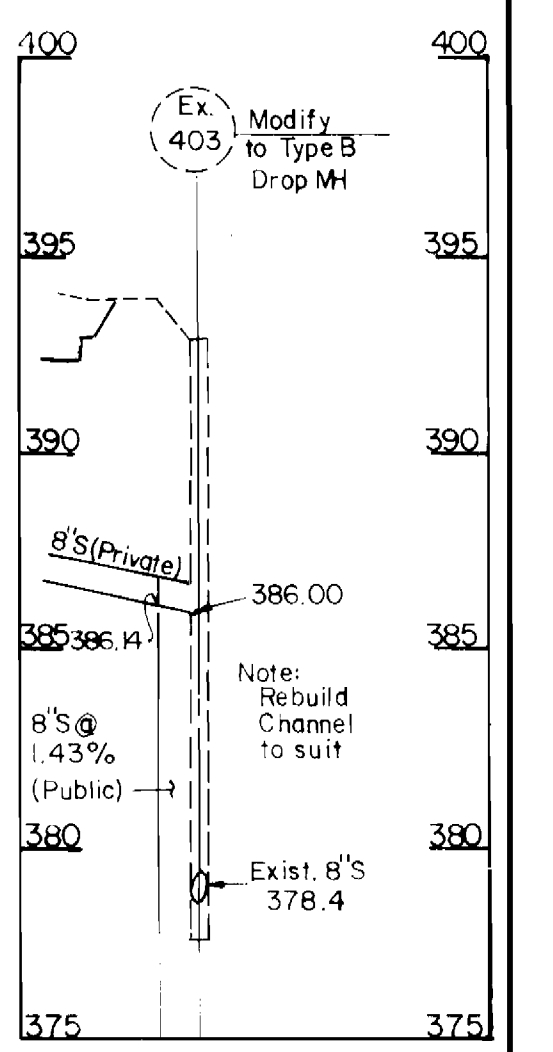
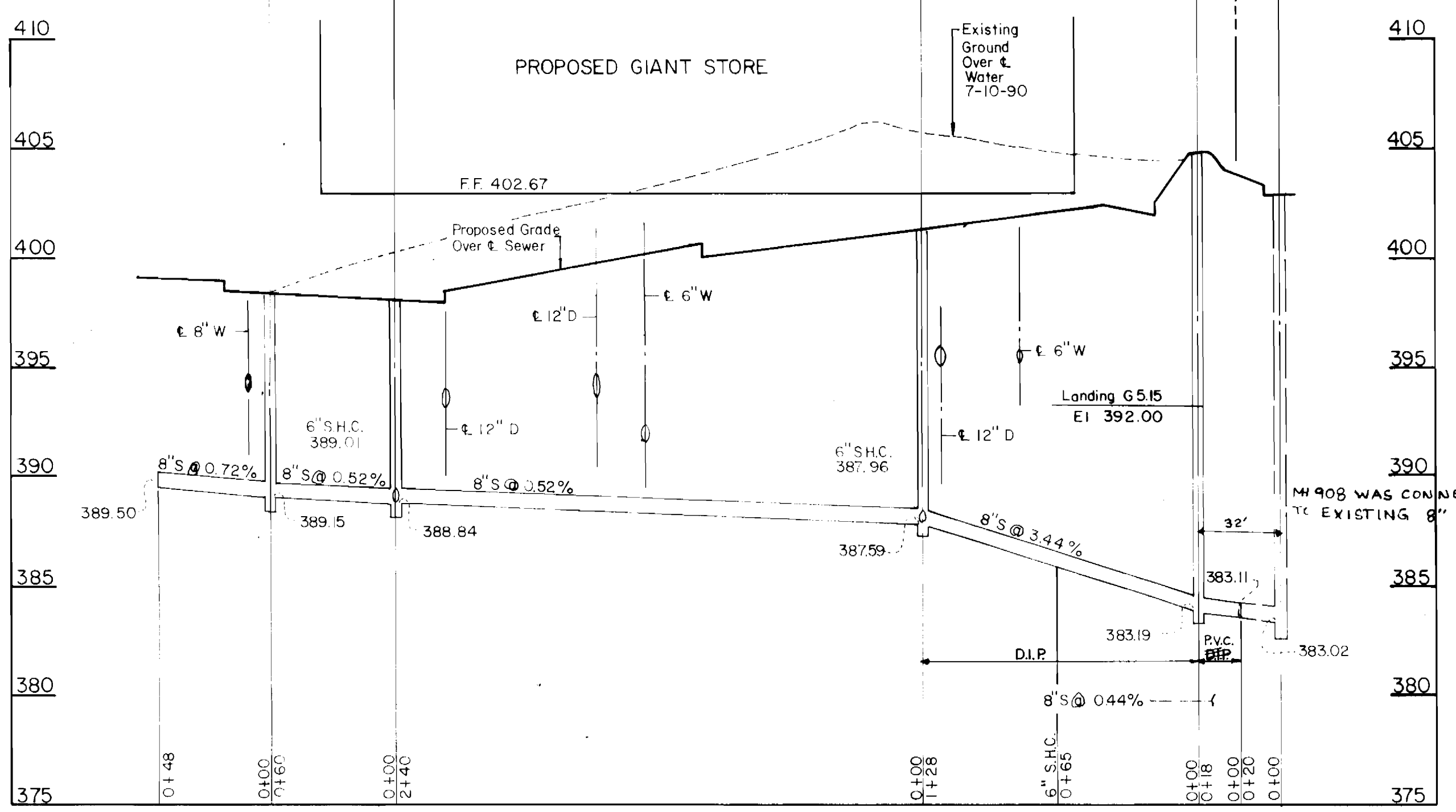
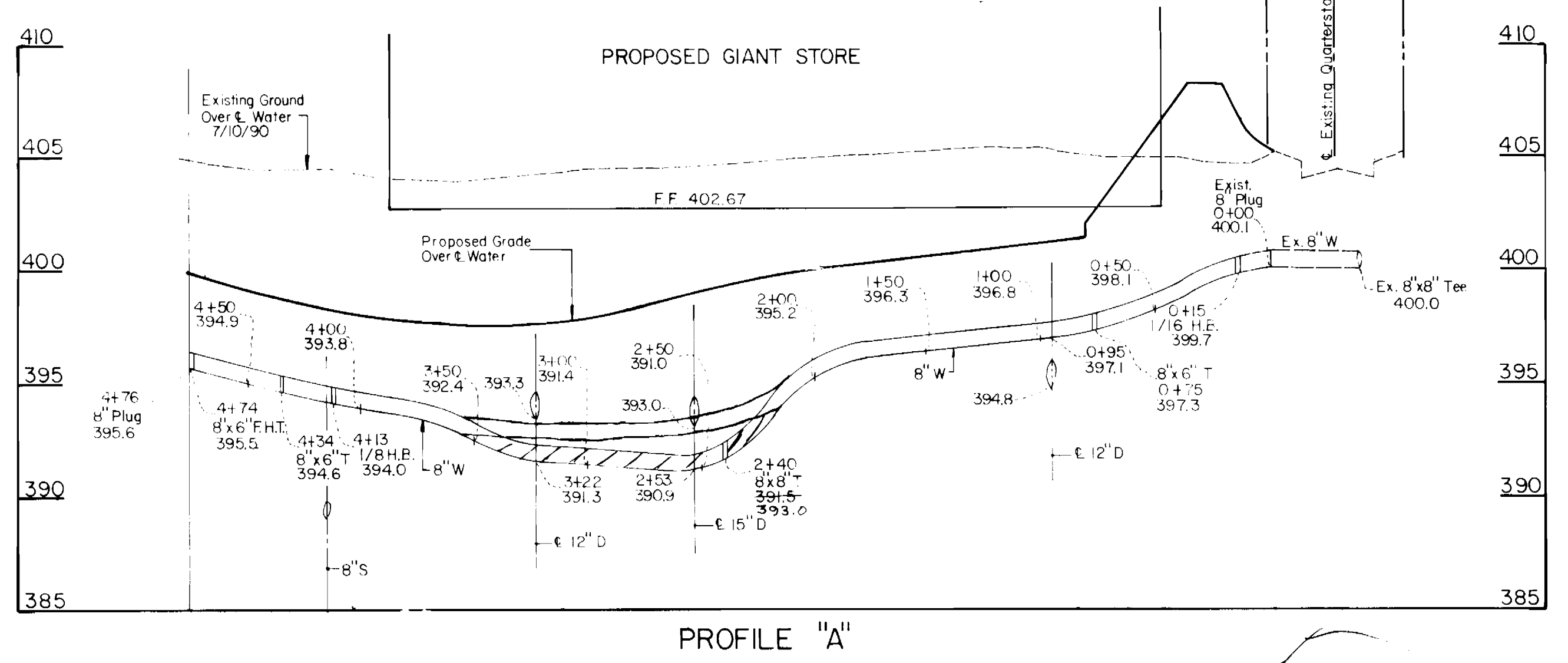
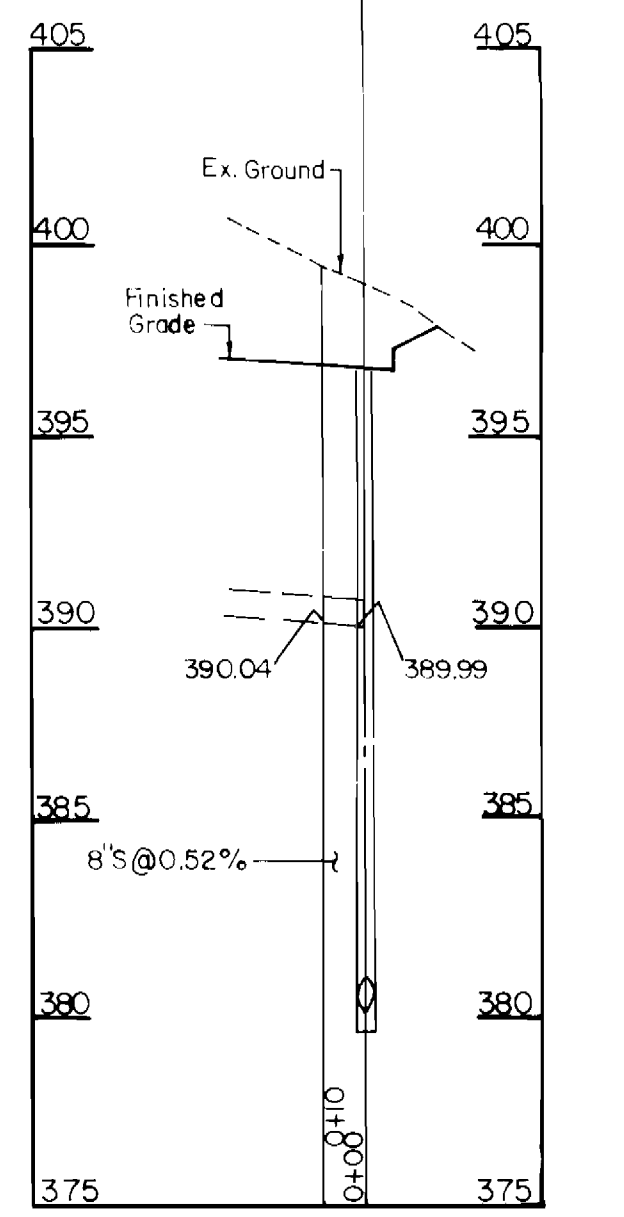
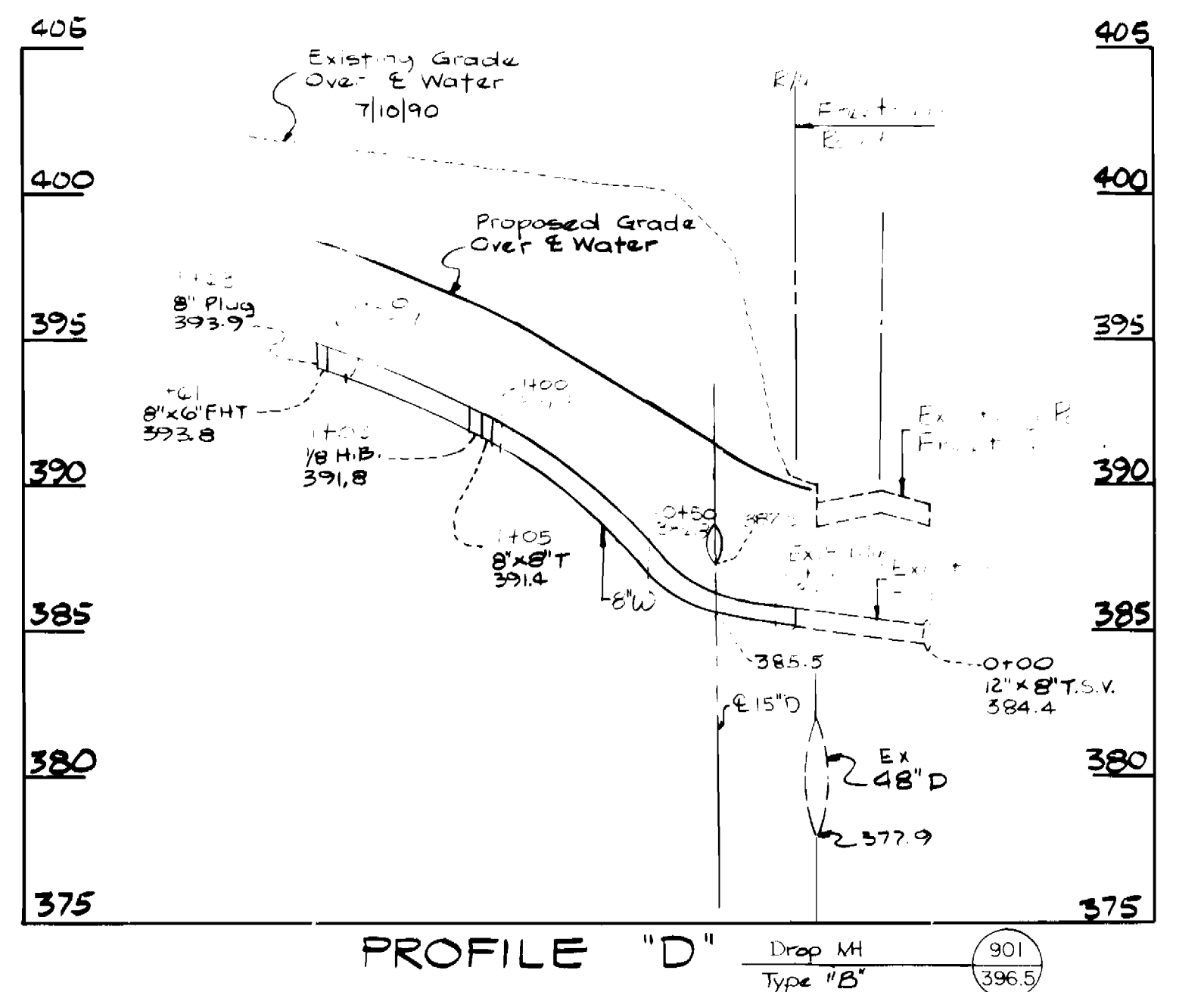
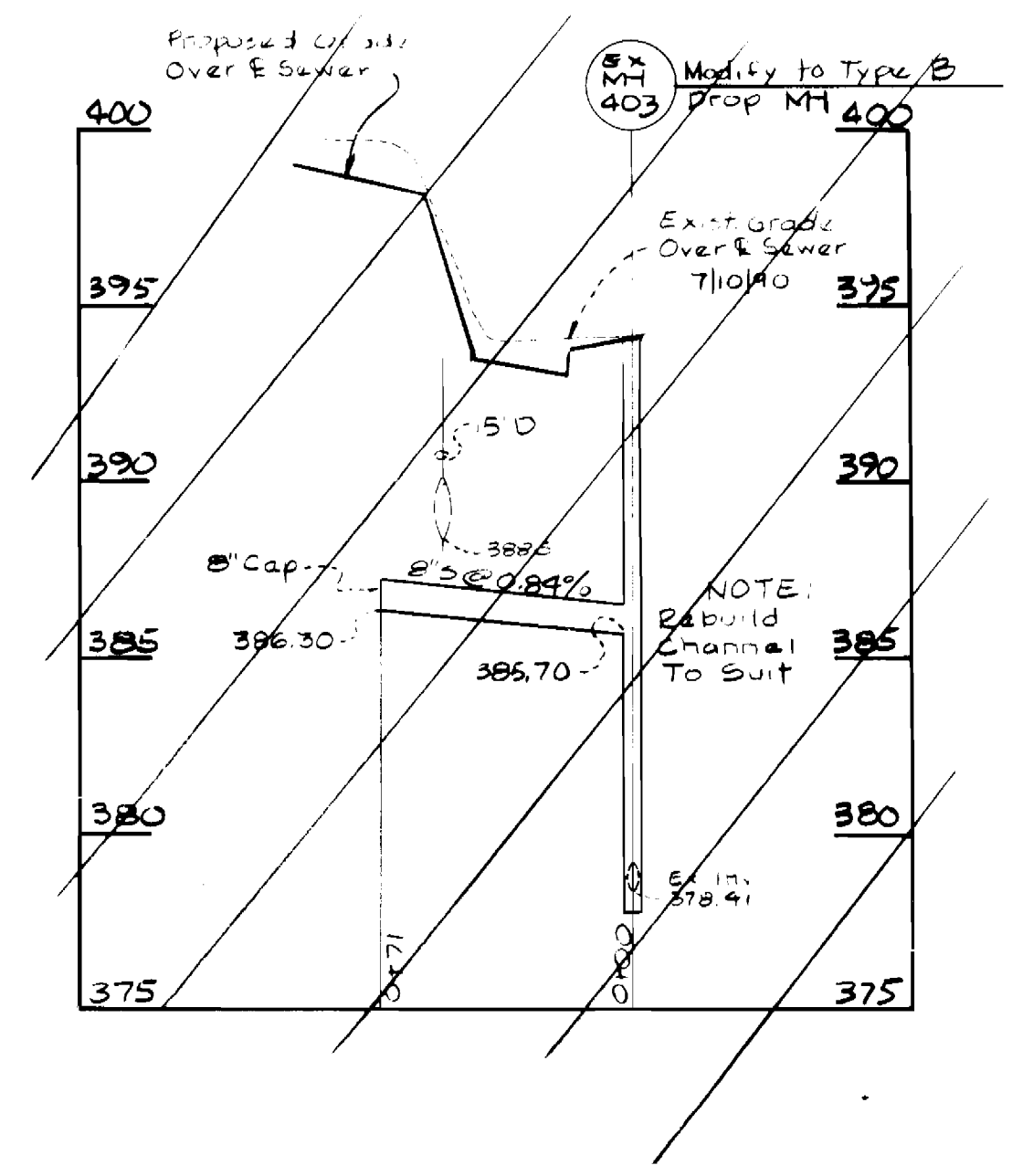
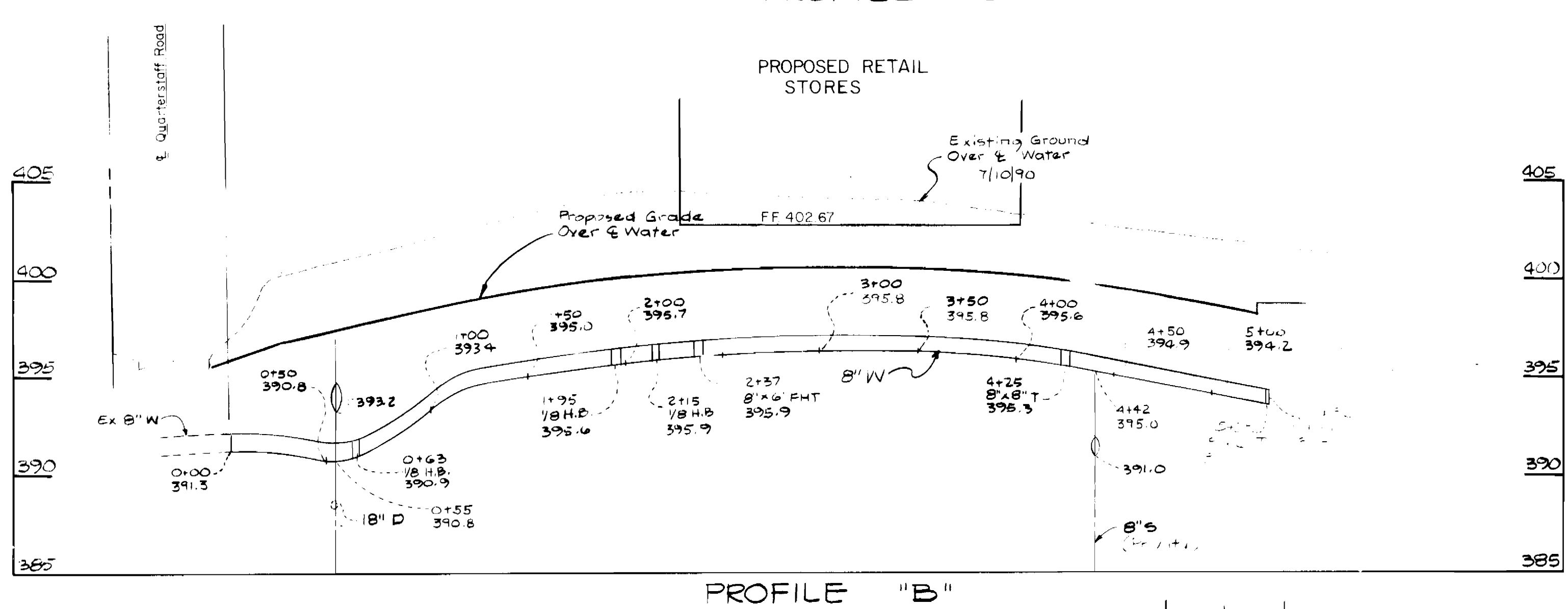
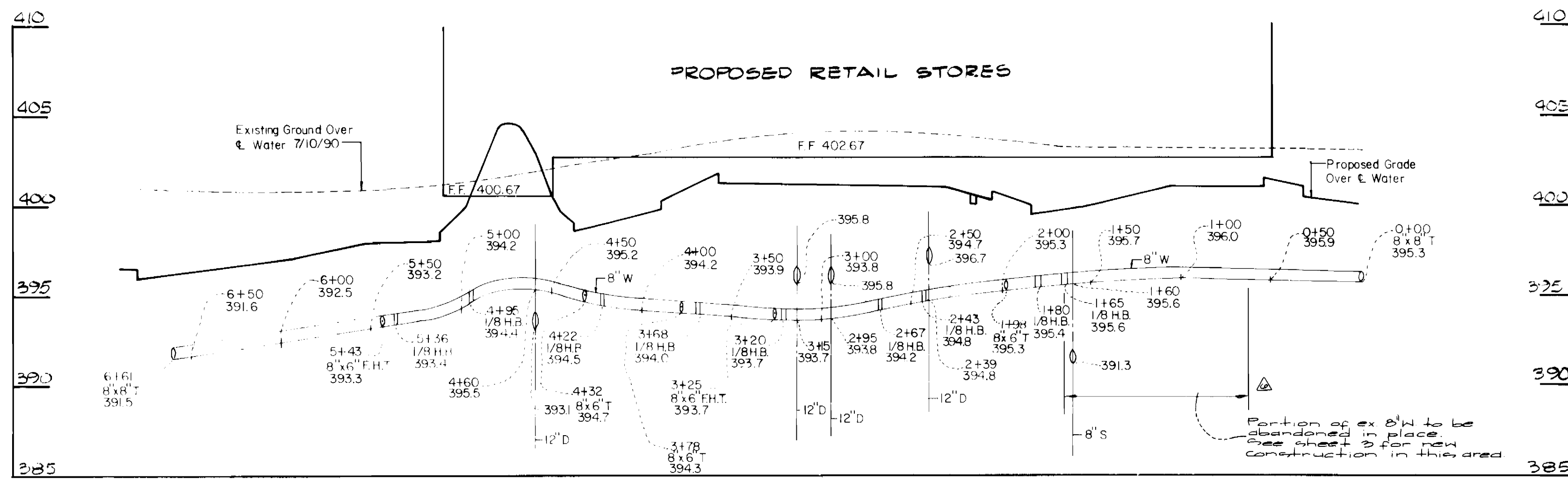
**WHITMAN, REQUARD AND ASSOCIATES ENGINEERS**  
 2315 ST. PAUL ST.  
 BALTIMORE, MARYLAND

DESIGN	DATE	BY	NO.	REVISION	DATE
JPK	1/21/78			REMOVE 1/4\"/>	
KLP	2/1/77			REVISIONS TO PLAN AND PROFILE	
				ADD 8\"/>	

**PLAN WATER & SEWER MAINS**  
 600' SCALE MAP NO. 35 BLOCK NO.

**COLUMBIA VILLAGE OF HICKORY RIDGE VILLAGE CENTER ELECTION DISTRICT NO. 5 CONTRACT NO. 34-3098-D AS-BUILT**

SCALE 1"=30'  
 SHEET 3 OF 4



*Check for dated 8/2/197*

DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND Director of Public Works - DATE Chief-Bureau of Utilities - DATE		WHITMAN, REOUARDT AND ASSOCIATES ENGINEERS 2315 ST. PAUL ST. BALTIMORE, MARYLAND		DESIGNED BY: KLP DRAWN BY: J.B. CHECKED BY: J.B. DATE: 11-1-91		REVISIONS: <table border="1"> <tr> <th>NO.</th> <th>REVISION</th> <th>DATE</th> </tr> <tr> <td>1</td> <td>Rev. profile 'C'</td> <td>8/2/91</td> </tr> <tr> <td>2</td> <td>AS-BUILT</td> <td>4/20/91</td> </tr> <tr> <td>3</td> <td>Labeled Drop MH Type "B" for MH 901</td> <td>4/15/91</td> </tr> <tr> <td>4</td> <td>Changed Water Crossings on Sewer Profile</td> <td>4/15/91</td> </tr> </table>		NO.	REVISION	DATE	1	Rev. profile 'C'	8/2/91	2	AS-BUILT	4/20/91	3	Labeled Drop MH Type "B" for MH 901	4/15/91	4	Changed Water Crossings on Sewer Profile	4/15/91	COLUMBIA VILLAGE OF HICKORY RIDGE VILLAGE CENTER ELECTION DISTRICT NO. 5 CONTRACT NO. 34-3098-D AS BUILT		SCALE: H:V = 1/4" = 50' V:1" = 5' SHEET 4 OF 4	
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