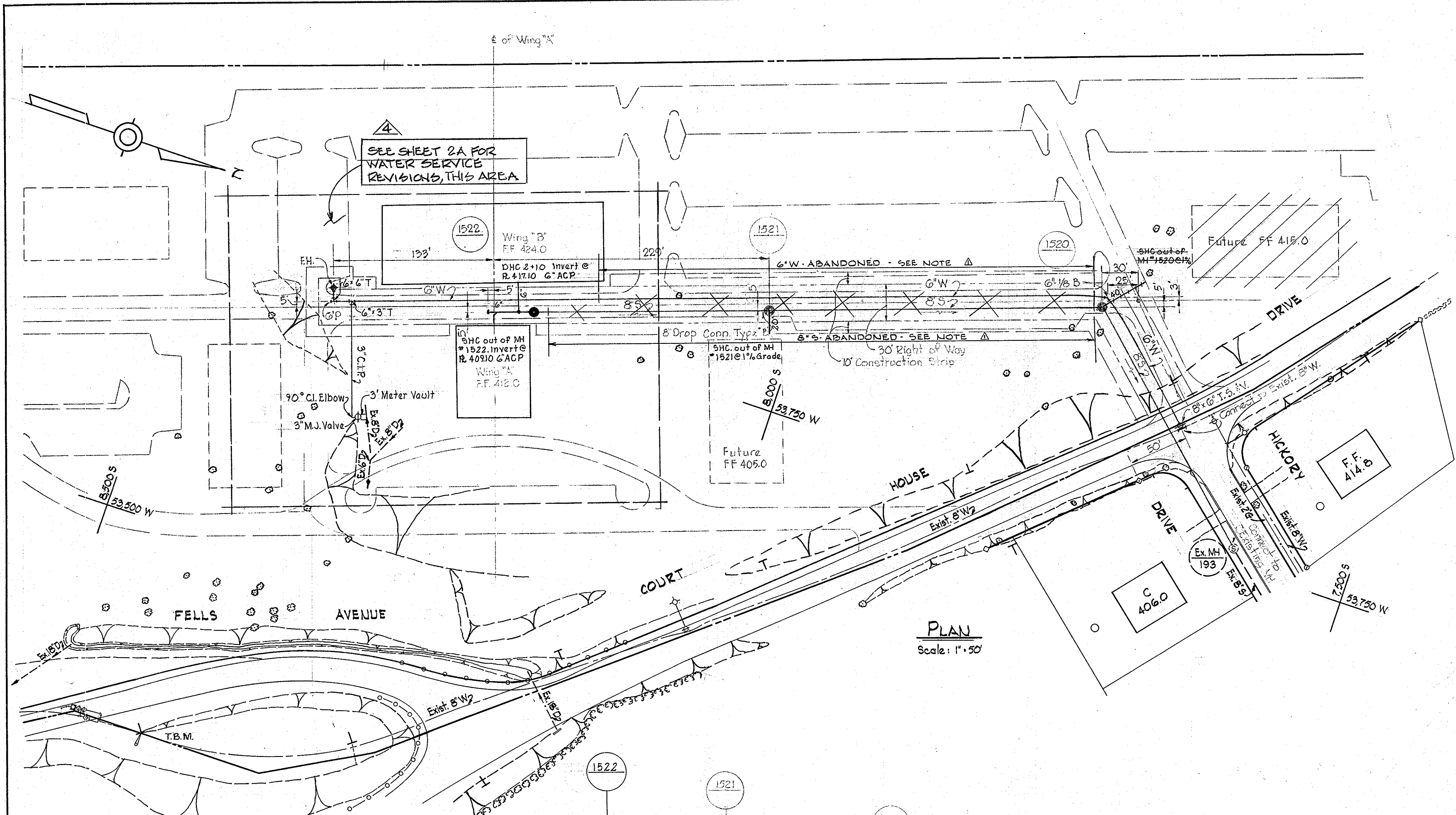


GENERAL NOTES

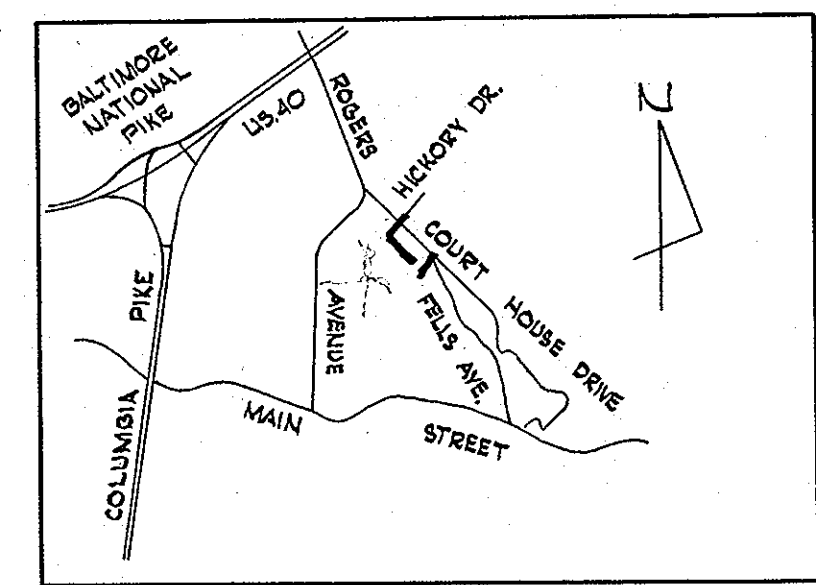
1. Approximate location of existing mains are shown. The Contractor shall take all necessary precautions to protect existing mains and services and maintain uninterrupted supply. Any damage incurred shall be repaired immediately.
2. All pipe elevations shown are invert elevations.
3. The Contractor shall locate existing utilities a minimum of two weeks in advance of construction operations in vicinity of utilities.
4. For all standard details see standards bound in Specifications.
5. All water mains to be C.I.P. or D.I.P. and have a minimum of 3 1/2' cover.
6. Block all fittings with concrete, see standard details bound in Specifications.
7. Buttress fire hydrants with concrete; provide copper at weep holes as required for positive drainage. For Buttress dimensions see standard detail W-8 Buttress for Caps.
8. The Contractor shall provide a joint in all sewer mains within 2'-0" of manhole walls.

W.R. & A. T.B.M. Elev. 339.81
 P.K. Nail in Power Pole 352209
 15' Rt. of Sta. 4+00 between P1.18 & 2.

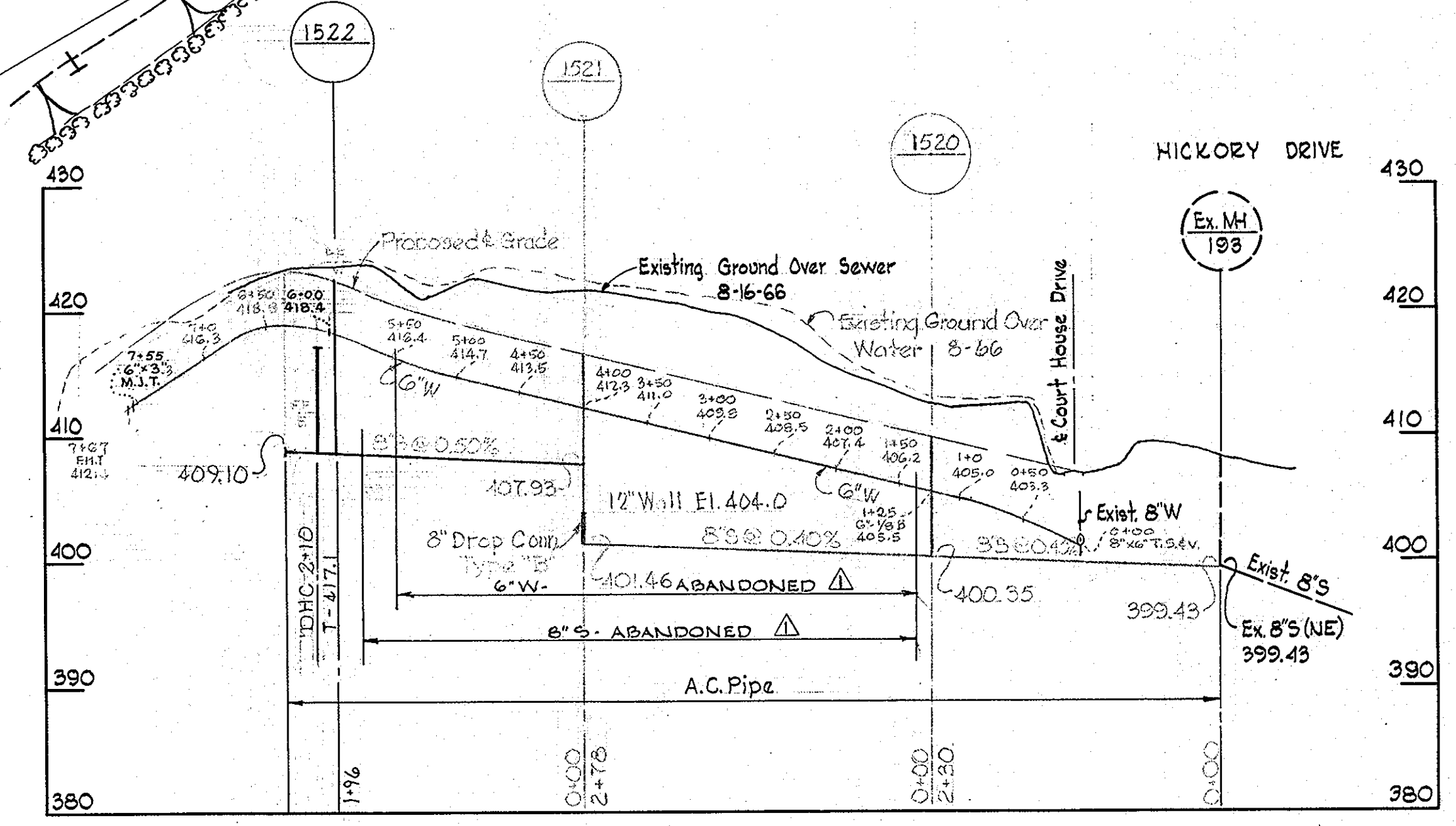
NOTE:
 Consult Contract Drawing G-4-0102 for details of changes made during the construction of County Office Building II



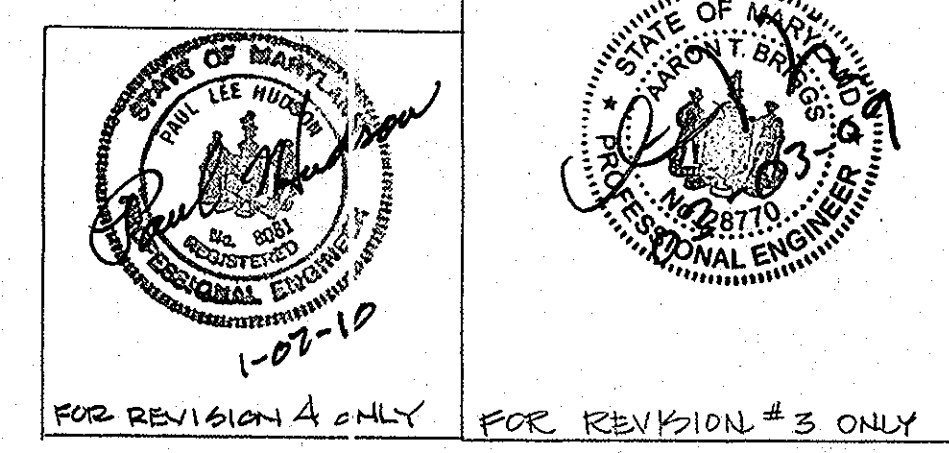
PLAN
 Scale: 1" = 50'



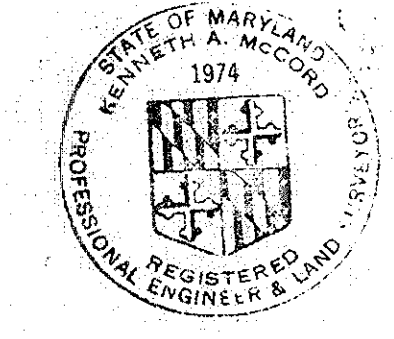
LOCATION MAP
 Scale: 1" = 1/2 mile



PROFILE
 Scale: Vert. 1" = 10'
 Hor. 1" = 100'



No.	Date	Revision
△	1975	Abandoned 8" sewer & 6" Water
△	2-10-77	See Capital Project G-4-0102 (Sheet 2 of 2 of this Set) for Relocation of 8" Sewer & 6" Water
△	12-08-08	SEE CAPITAL PROJECT C-0182 (SHEET 2 OF 2 OF THIS SET) FOR GEN PAD NEW WATER & SEWER HOUSE CONNECTIONS, WATER LINE FC, EQUIP YD.
△	1-07-10	SEE SHEET 2A FOR SERVICE REVISION



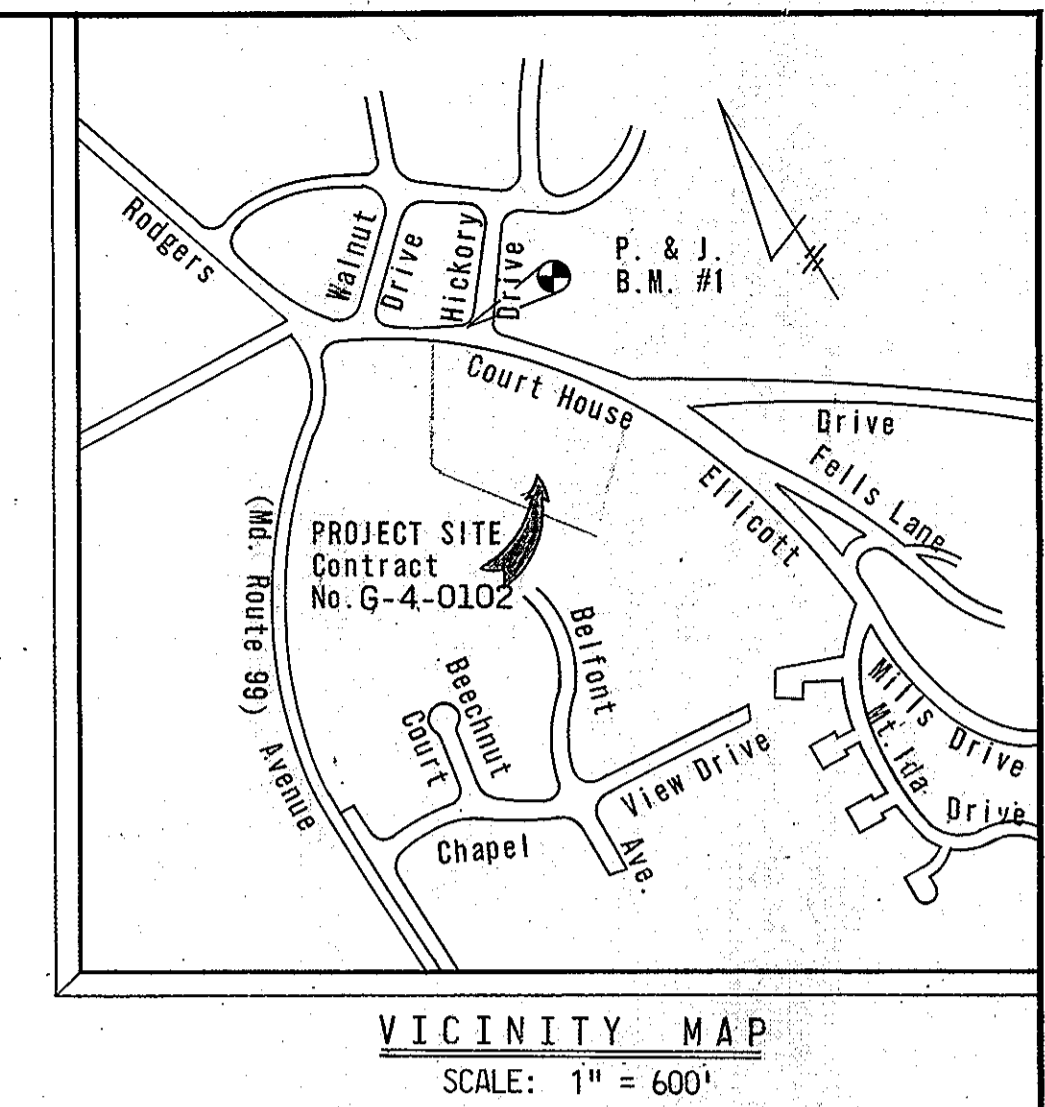
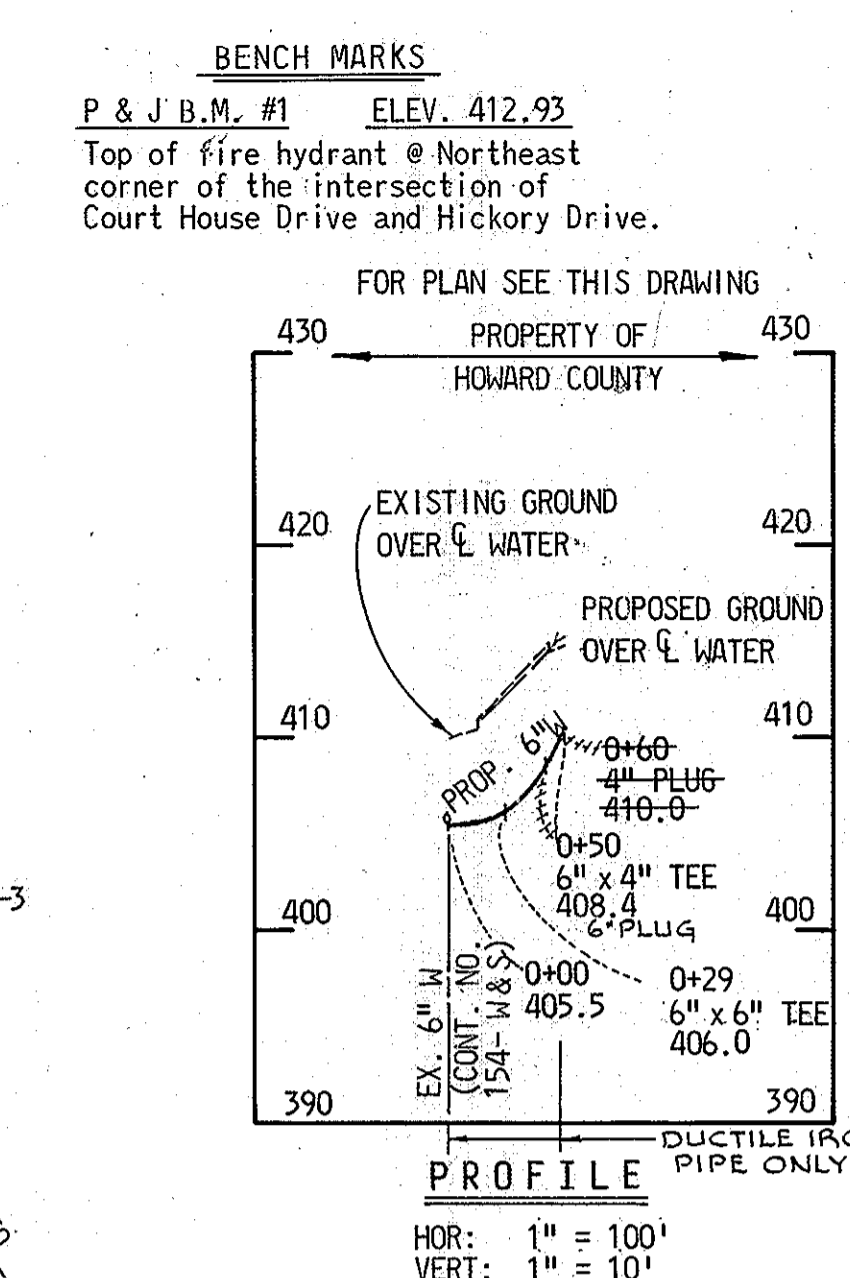
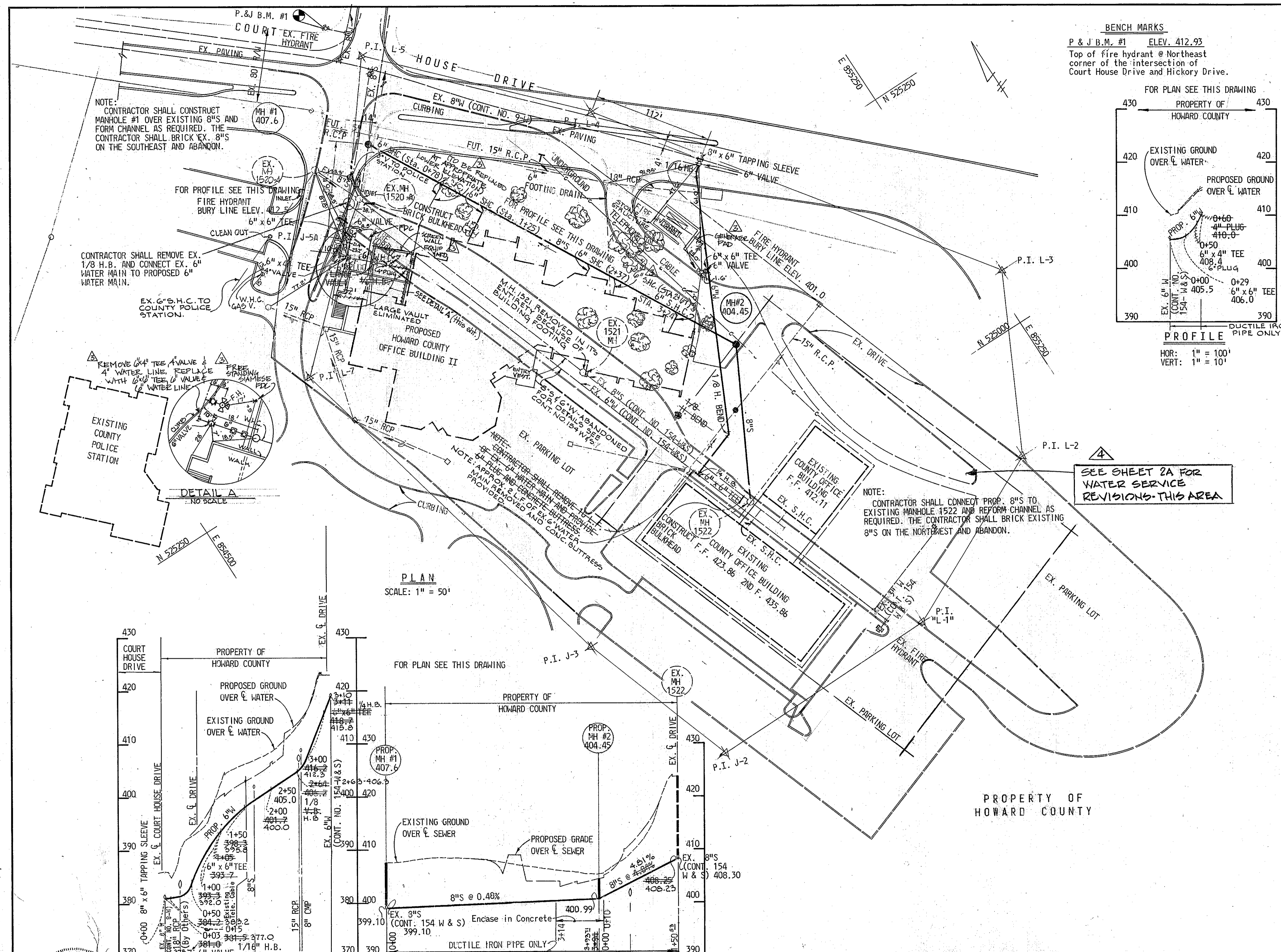
James A. McCord

County Office Building
 Contract No. 154 W45

WHITMAN, REQUARDT & ASSOCIATES ENGINEERS 1304 ST. PAUL ST. BALTIMORE, MARYLAND	HOWARD COUNTY METROPOLITAN COMMISSION DATE: 1-4-67 W.D. [Signature] CHIEF ENGINEER	CONTRACT NO. 154-W45	PLAN AND PROFILE OF WATER & SEWER MAINS	ELECTION DISTRICT ELLICOTT CITY NO 2	DRAWING NO. 1 OF 2 SCALE AS SHOWN
---	---	----------------------	--	---	--------------------------------------

WS 154 W-5/1

WS 154 W & S/2



- GENERAL NOTES**
1. Approximate locations of existing utilities are shown. The contractor shall take all necessary precautions to protect the existing utilities and to maintain uninterrupted service. Any damage incurred due to contractor's operations shall be repaired immediately at the contractor's expense.
 2. All pipe elevations shown are invert elevations.
 3. The contractor shall locate existing utilities well in advance of construction operation in the vicinity of utilities.
 4. See standard details bound in specifications.
 5. Buttress or anchor all water main fittings with concrete.
 6. Clear all utilities by a minimum of 6 inches; clear all utility poles by 2'-0" minimum or tunnel as required. Any costs incurred to the contractor for tunneling or bracing poles shall be included in unit prices bid for excavation.
 7. The contractor shall provide a pipe joint in all sewer mains within 2'-0" of exterior manholes walls.
 8. All manholes shall be 4'-0" inside diameter.
 9. All water mains to have a minimum of 3.5' cover unless otherwise noted.
 10. All fire hydrants shall be strapped to the tee and shall be buttressed with concrete in accordance with standard details. Cost of strapping fire hydrants and valves to be included in the unit price bid for furnishing and installing fire hydrants.
 11. Bury line elevations on fire hydrants shall be set to the elevations shown on the Plan.
 12. All horizontal and vertical controls are based on the Maryland State Grid System.

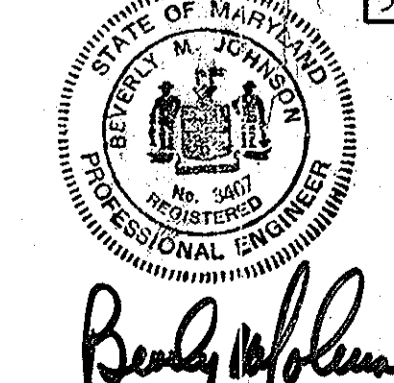
SEE SHEET 2A FOR WATER SERVICE REVISIONS THIS AREA

QUANTITIES

8" SEWER (R.I.P.)	544 L.F.
6" WATER (D.I.P.)	371 L.F.
FIRE HYDRANTS	2 EA.

FOR REVISION #1 ONLY

FOR REVISION #3 ONLY



PURDUM & JESCHKE ENGINEERS
 1023 N. CALVERT ST.
 BALTIMORE, MARYLAND

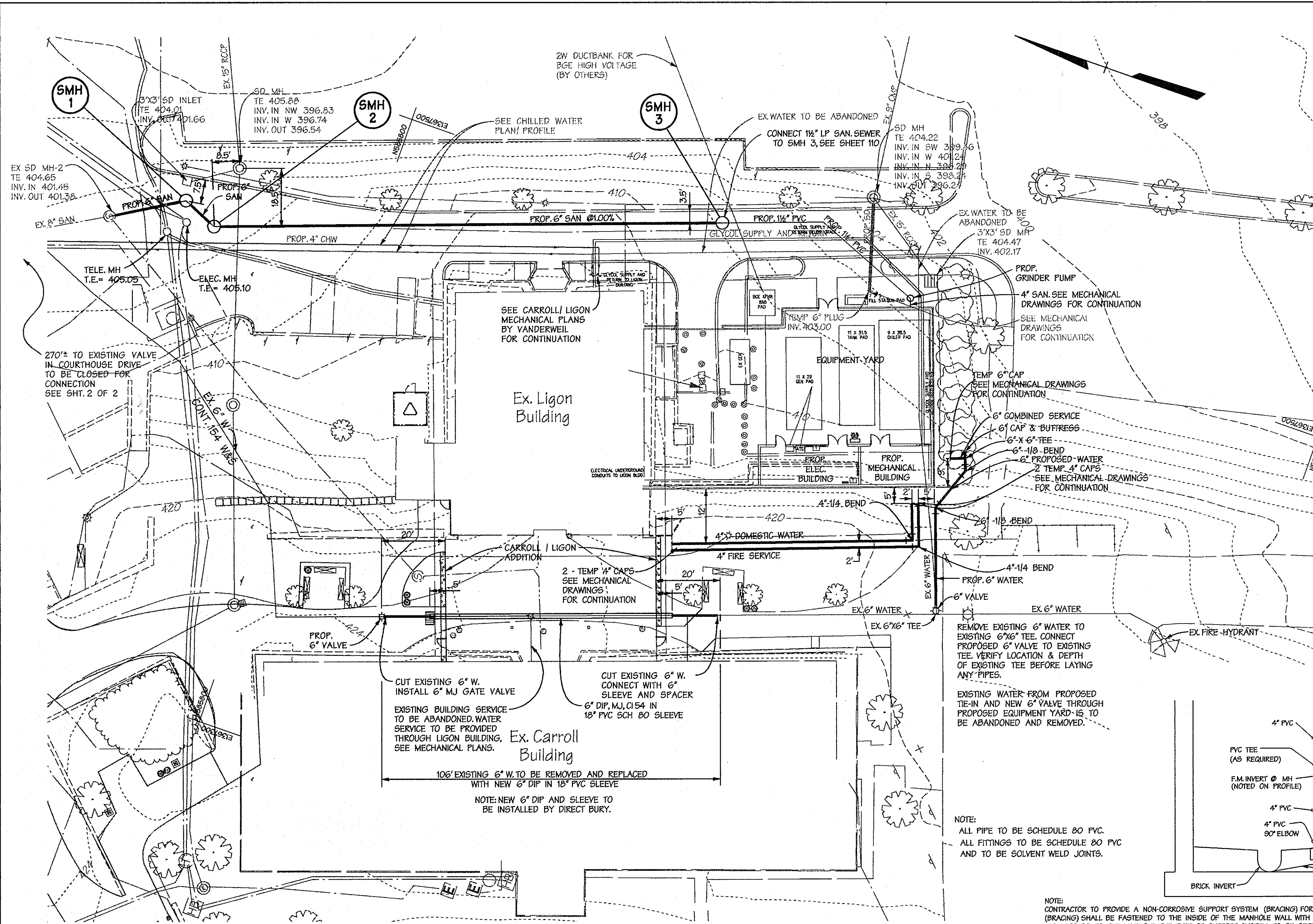
DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND
 DATE: 10-9-74
 CHIEF BUREAU OF ENGINEERING

CONTRACT NO. 154 W & S
 G-4-0102
 C-0282

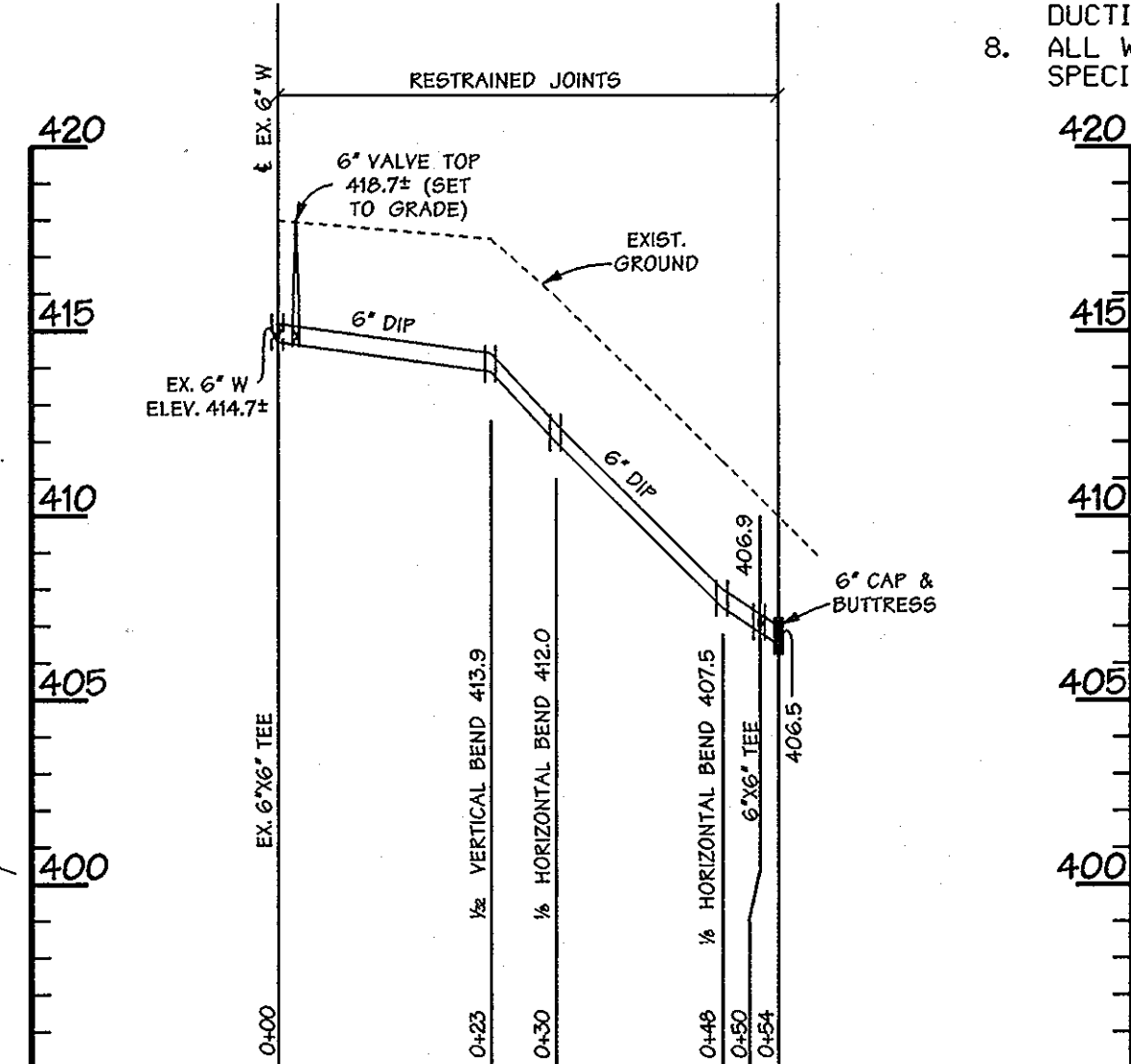
PLAN AND PROFILES OF WATER AND SEWER MAINS

HOWARD COUNTY OFFICE BUILDING
 WATER AND SEWER MAIN EXTENSIONS
 ELECTION DISTRICT ELLICOTT CITY (NO. 2)
 HOWARD COUNTY, MARYLAND

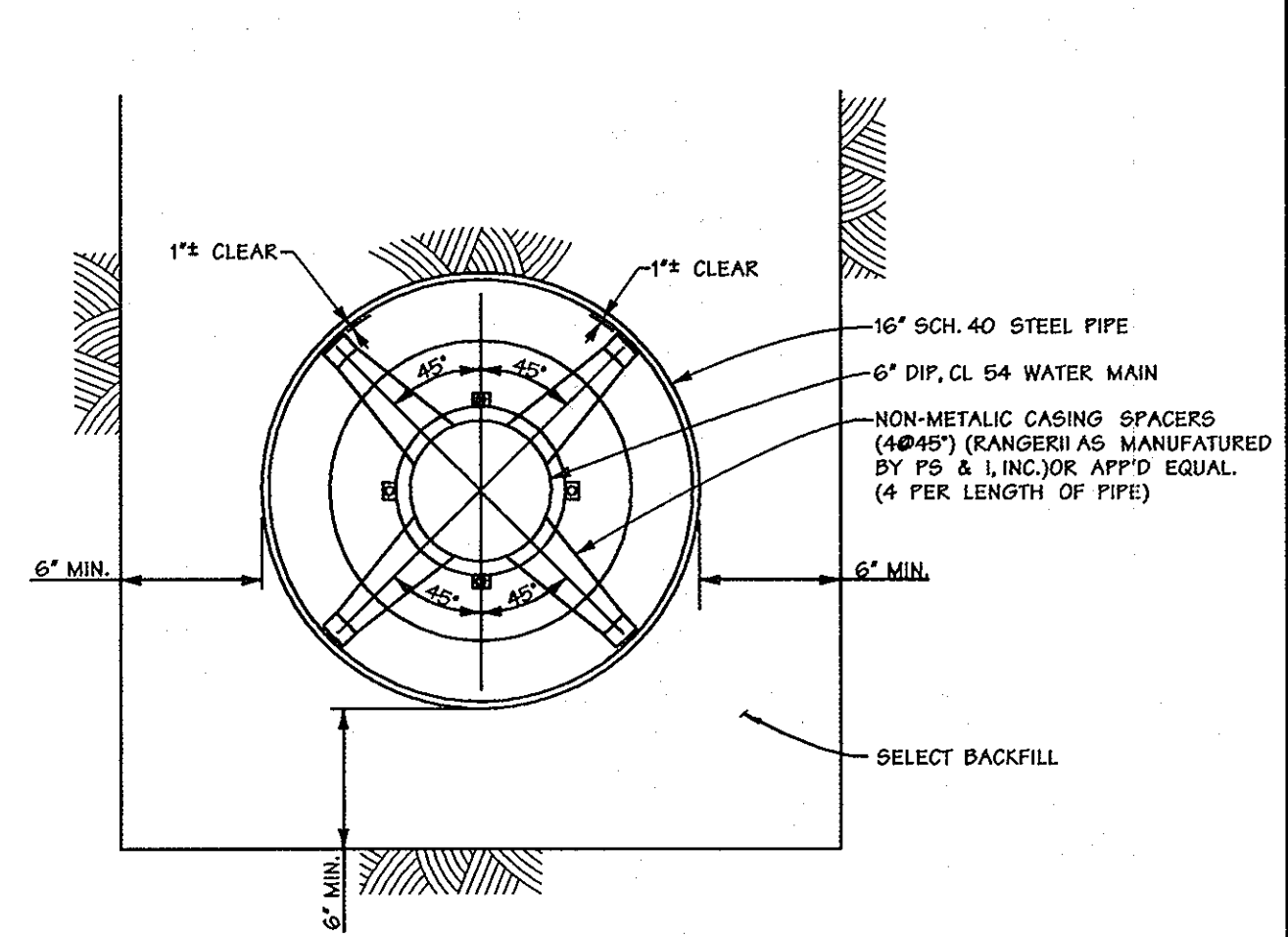
DRAWING NO. 2 OF 2
SCALE AS SHOWN
 Designed: RHB
 Drafted: AEL
 Checked: TAF



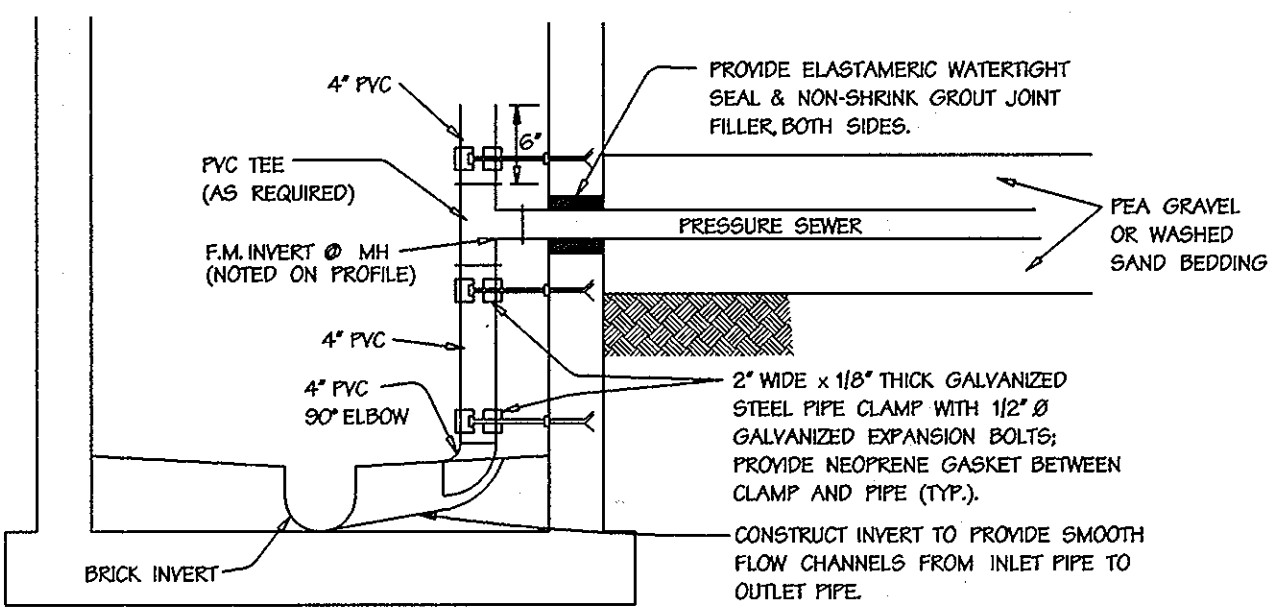
PLAN
SCALE: 1"=20'



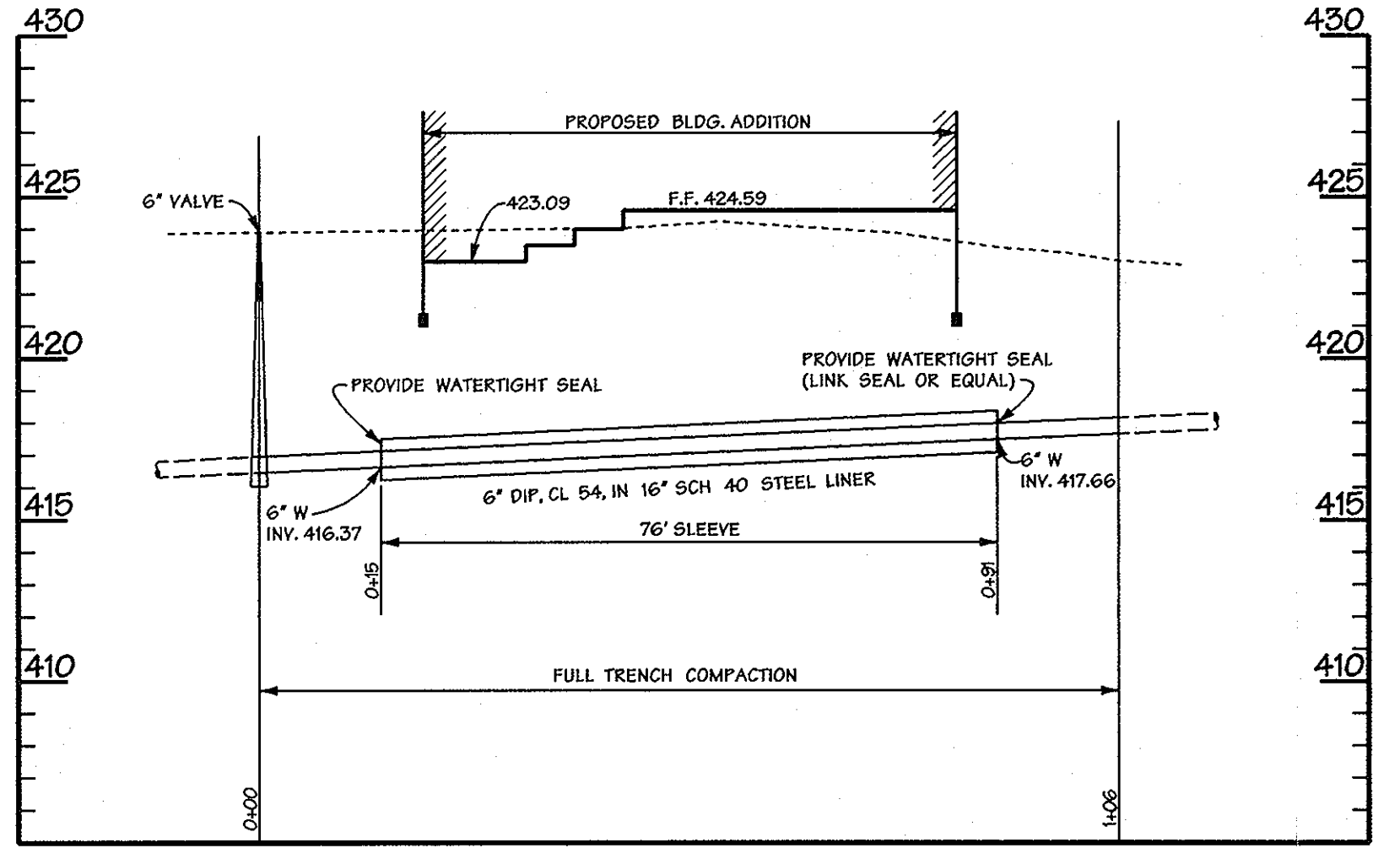
6" W TO MECHANICAL BUILDING - PROFILE
SCALE: HORIZ. 1"=20'
VERT. 1"=5'



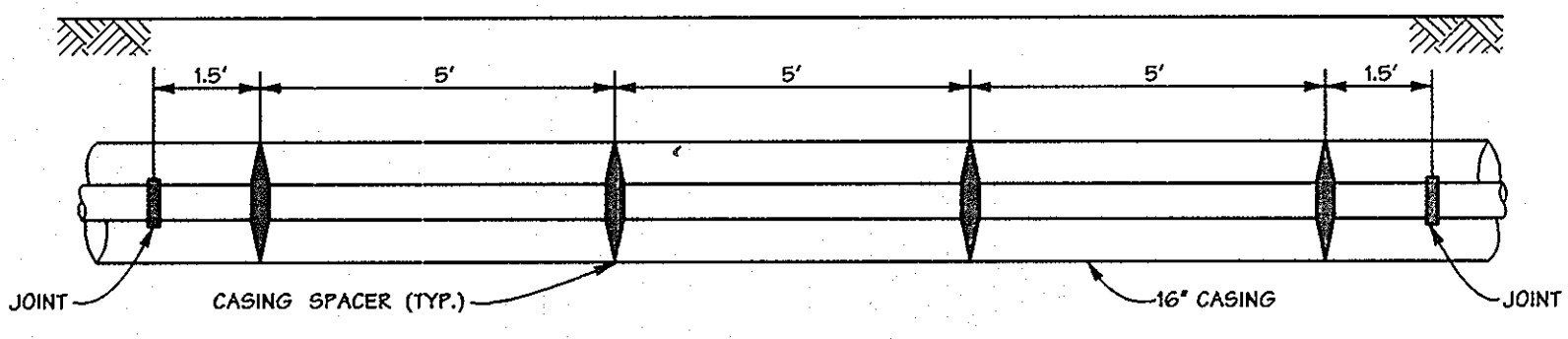
6" WATER MAIN IN 16" STEEL CASING PIPE
NOT TO SCALE



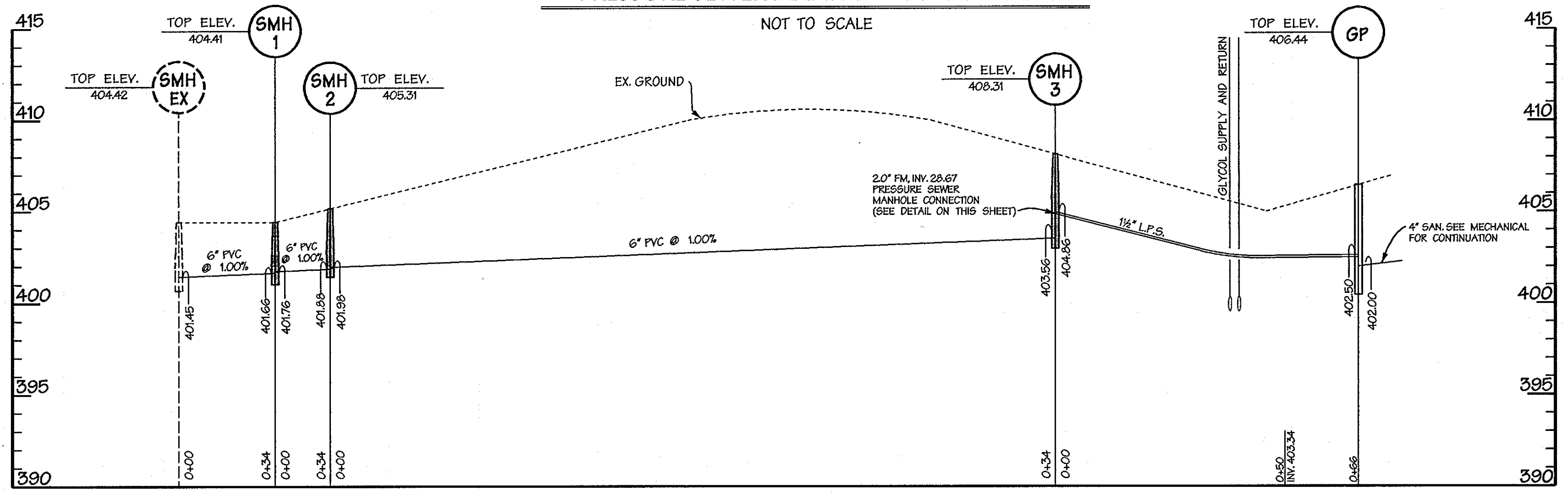
PRESSURE SEWER MANHOLE CONNECTION
NOT TO SCALE



PROFILE - 6" W THRU STEEL CASING PIPE
SCALE: HORIZ. 1"=20'
VERT. 1"=5'



SPACING OF CASING SPACERS ON 6" DIP WATER - 18' PIPE SECTION
NOT TO SCALE



SANITARY PROFILE
SCALE: HORIZ. 1"=20'
VERT. 1"=5'

NOTE:
THE CONTRACTOR SHALL PROVIDE TEMPORARY POTABLE WATER SERVICE TO THE LIGON AND CARROLL BUILDINGS DURING CONSTRUCTION.

DATA SOURCES:
TOPOGRAPHIC INFORMATION SHOWN HEREON PROVIDED BY THE HOWARD COUNTY OFFICE OF INFORMATION TECHNOLOGY GEOGRAPHIC INFORMATION SYSTEMS (GIS), DATED 10/09/07
EXISTING TOPOGRAPHIC INFORMATION SHOWN HEREON REFLECT THE RESULTS OF A FIELD RUN TOPOGRAPHIC SURVEY COMPLETED BY DMW, INC ON 12/16/06, 10/12/07, AND 8/12/08.
HOWARD BLDG ADDITION AND CARROLL/LIGON ADDITION REFLECT INFORMATION RECEIVED FROM CMSS ARCHITECTS, DATED 9/5/08.
HOWARD BLDG EQUIPMENT YARD ENCLOSURE REFLECTS INFORMATION RECEIVED FROM CMSS ARCHITECTS, DATED 9/8/08.
ELECTRICAL DUCT BANK AND CHILLED WATER PIPING REFLECTS INFORMATION RECEIVED FROM VANDERWEIL ENGINEERS, DATED 9/18/08.
TEST HOLE INFORMATION FOR UTILITY CROSSINGS RECEIVED FROM 50-DEPT, INC., DATED 10/28/08.

REVIEWED FOR NATURAL RESOURCES CONSERVATION SERVICE

SIGNATURE _____ DATE _____

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

APPROVED _____ DATE _____

HOWARD S.C.D.

I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED, OR APPROVED, BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO 8061, EXP. DATE 08-26-11.

SEDIMENT CONTROL MEASURES WILL BE IMPLEMENTED IN ACCORDANCE WITH SECTION 219 OF THE SPECIFICATIONS AND WITH ROAD CONSTRUCTION PLANS F- - -

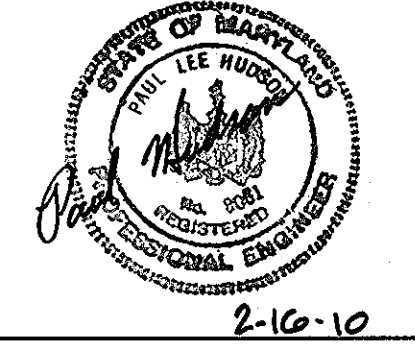
DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

DEPARTMENT OF PLANNING & ZONING
HOWARD COUNTY, MARYLAND

CHIEF - BUREAU OF UTILITIES - DATE _____

CHIEF - DEVELOPMENT ENGINEERING DIVISION - DATE _____

DMW
Daft · McCune · Walker, Inc.
A Team of Land Planners, 200 East Pennsylvania Avenue
Landscape Architects, Towson, Maryland, 21286
Engineers, Surveyors & Environmental Professionals 410 286 3333
Fax 296 4705



DESIGN BY:	SHH	REVISION #4 TO DWG SET. ADDED SUPPLEMENTAL
DRAWN BY:	SHH/JS	SHT 2A.
CHECKED BY:	PLH	
DATE:	2/12/10	
BY	NO.	REVISION
		DATE

600 SCALE MAP NO.	
BLOCK NO.	

HOWARD COUNTY OFFICE BUILDING
PLAN AND PROFILE OF WATER & SEWER MAIN
ELECTION DISTRICT ELLICOTT CITY (NO. 2)
HOWARD COUNTY, MARYLAND

CONTRACT NO. 154-W&S

SHEET 2A