

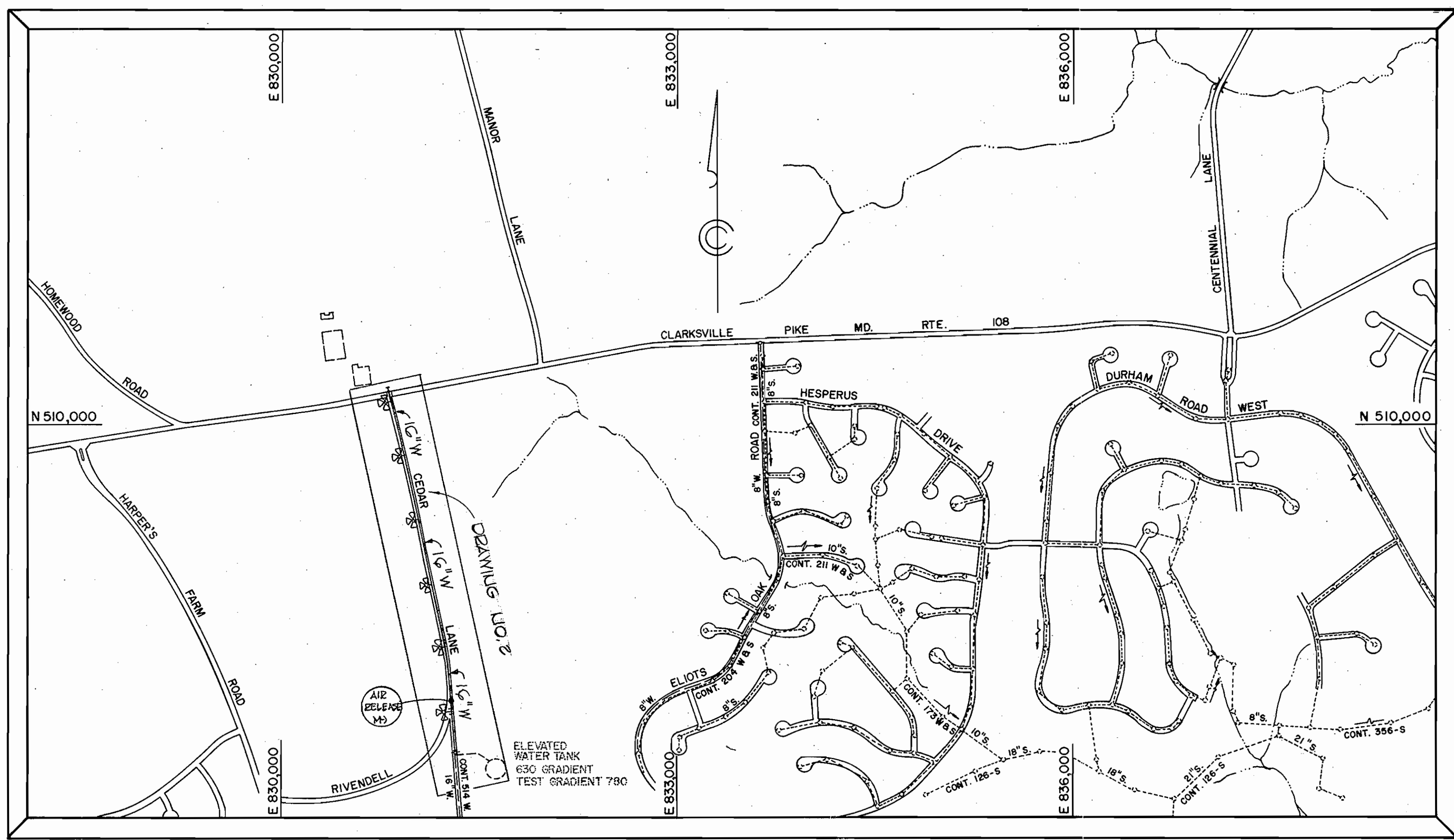
GENERAL NOTES

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 due to the contractor's operations shall be repaired immediately at the contractor's expense.
2. All pipe elevations shown are invert elevations.
3. Clear all utilities by a minimum of 6". Clear all poles by 2'-0" minimum or tunnel as required. Any costs incurred to the contractor for tunneling or bracing at poles shall be included in unit prices bid for excavation.
4. For all standard details see standards bound in the specifications.
5. The contractor shall locate existing utilities a minimum of two weeks in advance of construction operations in the vicinity of proposed utilities.
6. The contractor shall notify the following utilities or agencies at least five (5) days before starting work shown on these plans:
 State Highway Administration - 531-5533
 Baltimore Gas & Electric Co. - Underground Electric Distribution Engineering - "Damage Control" - 234-5691
 Baltimore Gas & Electric Co. - Underground Gas Distribution Engineering - 559-0100.
 C & P Telephone Co. - 725-5976
 A.T.&T. - Cable Location Division - 301-393-3553
 Colonial Pipeline Co. - 781-4641
 Miss Utility - 1-800-393-3648
7. Trees are to be protected from damage to maximum extent. Trees located within the construction strips are not to be removed or damaged by the contractor.
8. 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.
9. All water mains to be C.I.P. or D.I.P. unless otherwise noted.
10. Top of all water mains to have a minimum of 3 1/2' of cover unless otherwise noted.
11. All valves shall be strapped to trees, where applicable, in accordance with standard details.
12. Buttress or anchor all water main fittings in concrete in accordance with details in specifications.
13. 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. Cost of strapping fire hydrants and valves to be included in unit prices bid for furnishing and installation of fire hydrants.
14. All grading for fire hydrants shall be in accordance with standard detail W-48, unless otherwise noted. Cost for grading to be included in unit price bid for furnishing and installing fire hydrants.

14. (Cont'd)
Soil around fire hydrant to be compacted in accordance with section 5-15 of the standard Specs.
15. Horizontal and vertical control is based on the Howard County Grid Coordinate System.

PHASE II-A
 CONTRACT NO. 2831-W & S
 HOWARD COUNTY BOARD OF EDUCATION
 ADMINISTRATION BUILDING AND
 VOCATIONAL TECHNICAL CENTER
 MARYLAND ROUTE 108 - CEDAR LANE
 WATER AND SEWER EXTENSION

DESIGNED: R.D.B.
 DRAFTED: D.B.S.
 CHECKED: T.A.F.



QUANTITIES			
SIZE	ESTD.	AS BUILT	SUPPLIER
16" WATER	2,073 L.F.	2836	
8" WATER	55 L.F.	53.8	
6" WATER	160 L.F.	159.6	
FIRE HYD.	6 EA.		
AIR REL. MH	1 EA.		
20" STEEL CASING PIPE	40 L.F.		

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HOWARD COUNTY, MARYLAND
DEPARTMENT OF PUBLIC WORKS

WATER ZONE CODE: I - 02 EAST OF CEDAR LA.
 I - 03 WEST OF CEDAR LA.
 TOTAL LOTS TO BE SERVED 8 WATER



Terrell A. Fisher
 TERRELL A. FISHER, NO. 9757

FISHER, COLLINS AND CARTER, INC.
 CIVIL ENGINEERING CONSULTANTS
 8388 COURT AVENUE
 ELLICOTT CITY, MARYLAND 21043

DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND
 Director of Public Works: *Don F. Newman* 9-18-79
 Chief Bureau of Engineering: *W.D. Stibich* 9-18-79

PHASE II-A
 CONTRACT NO. 2831-W & S

VICINITY MAP

HOWARD COUNTY BOARD OF EDUCATION
 ADMINISTRATION BUILDING AND
 VOCATIONAL TECHNICAL CENTER
 MARYLAND ROUTE 108 - CEDAR LANE

DRAWING NO. 1 OF 3
 SCALE 1" = 60'

SEPT. 18, 1979

WS 831 - WS / 1 (PHASE II - A)

WS 831 - WS/2 (PHASE II-A)

WS

BENCH MARK

B.M. "VT-2" Elev. 484.84
P.K. nail in paving on east side of Cedar Lane in vicinity of underground B.G. & E 26" gas main.

50' R/W BALTIMORE GAS & ELECTRIC CO. 225/119

Fire Hydrant Bury Line Elev. 483.34

Property of THE HOWARD RESEARCH & DEVELOPMENT CORP. 417/517

Fire Hydrant Bury Line Elev. 468.62

Property of THE HOWARD RESEARCH & DEVELOPMENT CORP. 401/124

Fire Hydrant Bury Line Elev. 484.1

For Profile See Drawing No. 3

B.M. "VT-2"

CEDAR LANE

10' construction strips (Typ.) F.H. Right-of-Way Area Grading around F.H. required (See Standard Detail W-48)

N 507,750

E 831,250

Property of ROBERT W. DOUGLAS AND WALTER W. JACOBS 551/128

Property of ROBERT W. DOUGLAS AND WALTER W. JACOBS 560/118

Property not in Metro. District - Feb. 10, 1979

Property of WILLIAM F. & CAROLYN B. YATES 749/567

Property of ROBERT W. DOUGLAS AND WALTER W. JACOBS 551/128

Property of HERBERT & GRACE MICHAEL 450/666

F.F. = 489.56 No Cellar

PLAN
1" = 50'

BENCH MARKS

B.M. "VT-1" Elev. 468.70
P.K. nail in paving at southeast corner of intersection of Cedar Lane and Md. Route 108.
B.M. "Ho. Co. Mon. 2039003" Elev. 468.72
Brass Disc found on south side of Md. Route 108, 225'± east of P.I. "VT-1".

Property of THE HOWARD RESEARCH & DEVELOPMENT CORP. 417/517

For Profile See Drawing No. 3

Fire Hydrant Bury Line Elev. 468.55

Property of MARY CARROLL MUTH 329/381

Fire Hydrant Bury Line Elev. 467.16

Fire Hydrant Bury Line Elev. 466.42

10' construction strips (Typ.) F.H. Right-of-Way Area

Grading around F.H. required (See Standard Detail W-48)

10' construction strips (Typ.) F.H. Right-of-Way Area

E 831,000

E 830,750

Match Line "A-A", See This Drawing

Property of ROBERT W. DOUGLAS AND WALTER W. JACOBS 560/118

Property of FREDERICK AND PAULINE REITZ 280/401

Note: Copper Tubing, By-Pass required with 16" gate valve (See Detail on Drawing B)

PLAN
1" = 50'

Property not in Metro. District - Feb. 10, 1979



FISHER, COLLINS AND CARTER, INC.
CIVIL ENGINEERING CONSULTANTS
8388 COURT AVENUE
ELLCOTT CITY, MARYLAND 21043

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND
5-14-79
DIRECTOR OF PUBLIC WORKS DATE

PHASE II - A
CONTRACT NO. 831-W & S
CHIEF BUREAU OF ENGINEERING DATE

PLAN
WATER MAIN

HOWARD COUNTY BOARD OF EDUCATION
ADMINISTRATION BUILDING AND
VOCATIONAL TECHNICAL CENTER
MARYLAND ROUTE 108 - CEDAR LANE
WATER AND SEWER EXTENSION

DRAWING NO. 2 OF 3
SCALE 1" = 50'
DESIGNED: R.D.B.
DRAFTED: D.B.S.
CHECKED: T.A.F.

A5-BUILT FEB 4, 1980

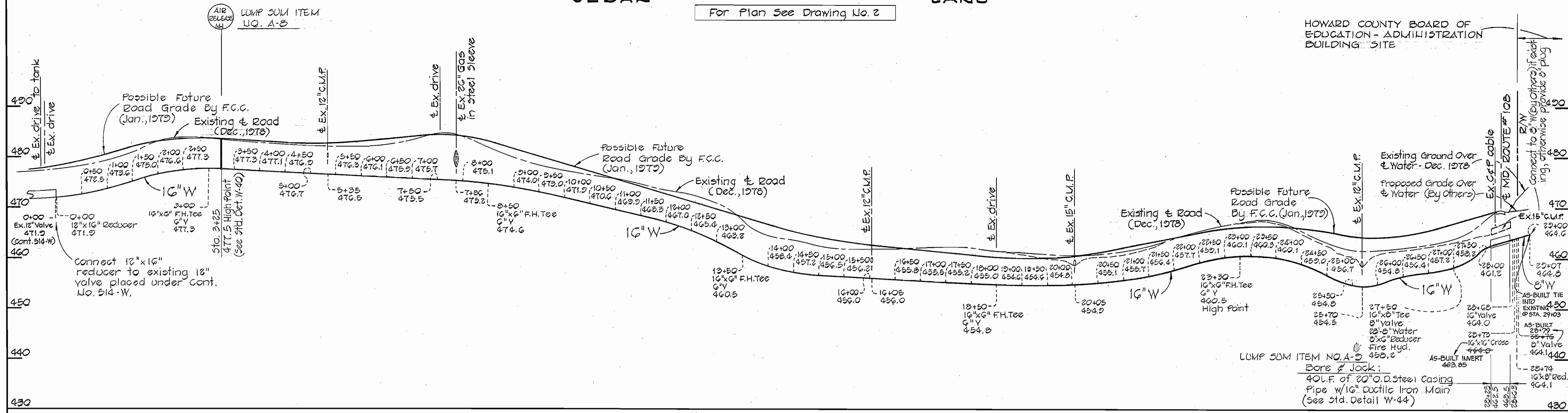
SEPT. 18, 1979

WS 831-WS/3 (PHASE II-A)

CEDAR LANE

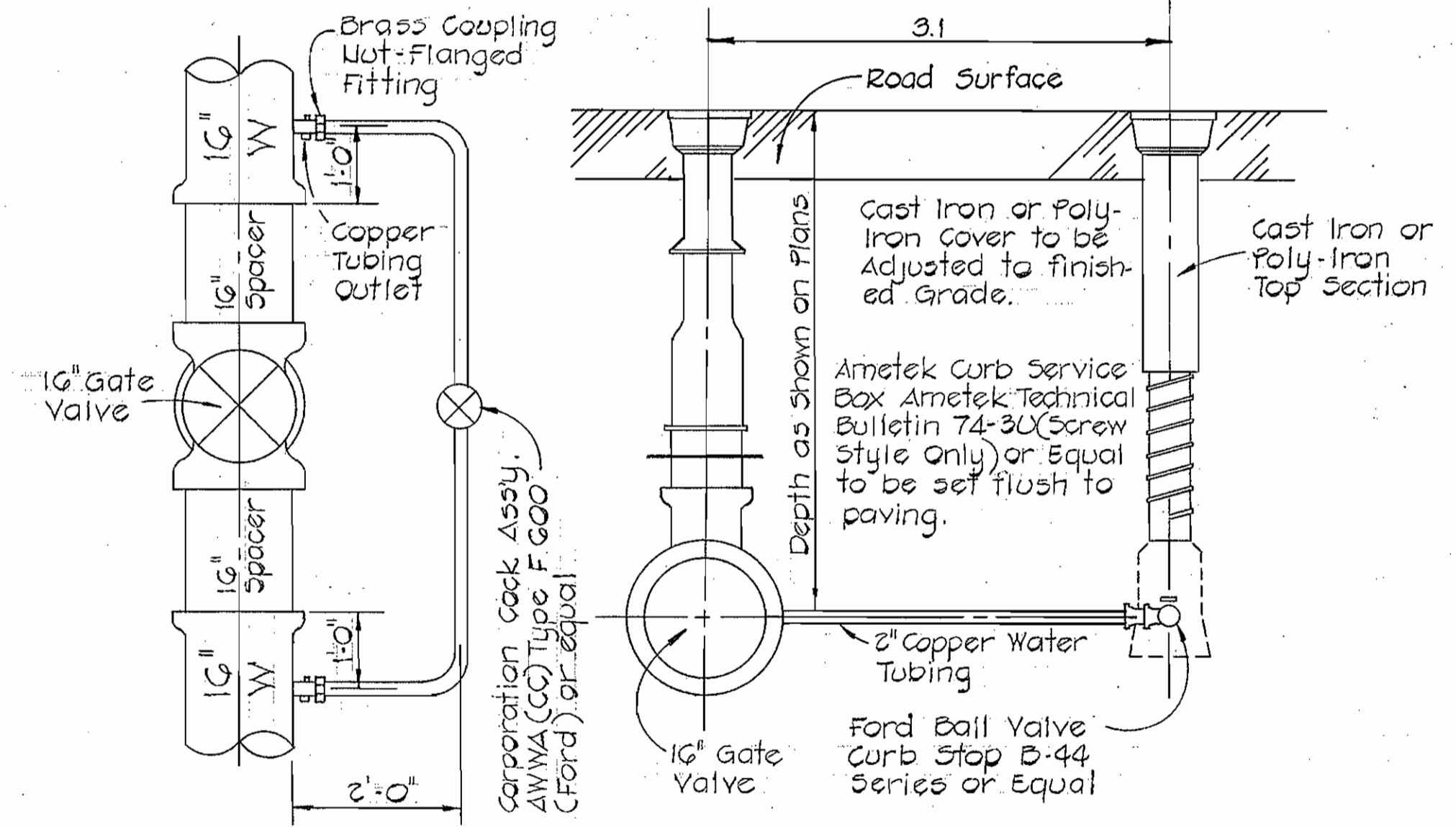
For Plan See Drawing No. 2

HOWARD COUNTY BOARD OF EDUCATION - ADMINISTRATION BUILDING SITE



PROFILES

Scale: Horiz. 1"=100'
Vert. 1"=10'



16" GATE VALVE WITH BY-PASS

No Scale



TERRELL A. FISHER, NO. 9757
FISHER, COLLINS AND CARTER, INC.
CIVIL ENGINEERING CONSULTANTS
8388 COURT AVENUE
ELLCOTT CITY, MARYLAND 21043

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND
Director of Public Works DATE
5-14-79
W. O. Albert
CHIEF BUREAU OF ENGINEERING DATE
5-14-79

CONTRACT NO. 831-W & S
PHASE II-A

PROFILES AND DETAILS
WATER & SEWER MAINS

HOWARD COUNTY BOARD OF EDUCATION
ADMINISTRATION BUILDING AND
VOCATIONAL TECHNICAL CENTER
MARYLAND ROUTE 108 - CEDAR LANE
WATER AND SEWER EXTENSION

DRAWING NO. 3	SCALE AS SHOWN	DESIGNED: R.O.B.
OF 3		DRAFTED: D.B.S.
		CHECKED: T.A.F.