

PROJECT NO. WP 8071

U.S. ROUTE 29 WATER MAINS

HOWARD COUNTY, MARYLAND

DEPARTMENT OF PUBLIC WORKS

QUANTITIES	
24" Water	9,935 LF
20" Water	45 LF
16" Water	65 LF
8" Water	530 LF
6" Water	55 LF
Fire Hydrants	7

AS-BUILT
Diary FB# 5767
Stakeout FB# 5768
D.I.P. used.



US Route #29 Water Main
Project No. WP 8071
Contract No. 587-W

WHITMAN, REQUARDT & ASSOCIATES
ENGINEERS
1304 ST. PAUL ST.
BALTIMORE, MARYLAND

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

9-16-74
DATE

W. O. Albert
CHIEF BUREAU OF ENGINEERING

CONTRACT NO. 587-W

LOCATION PLAN

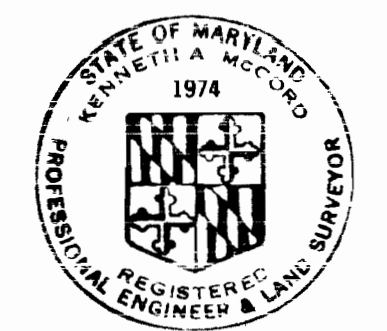
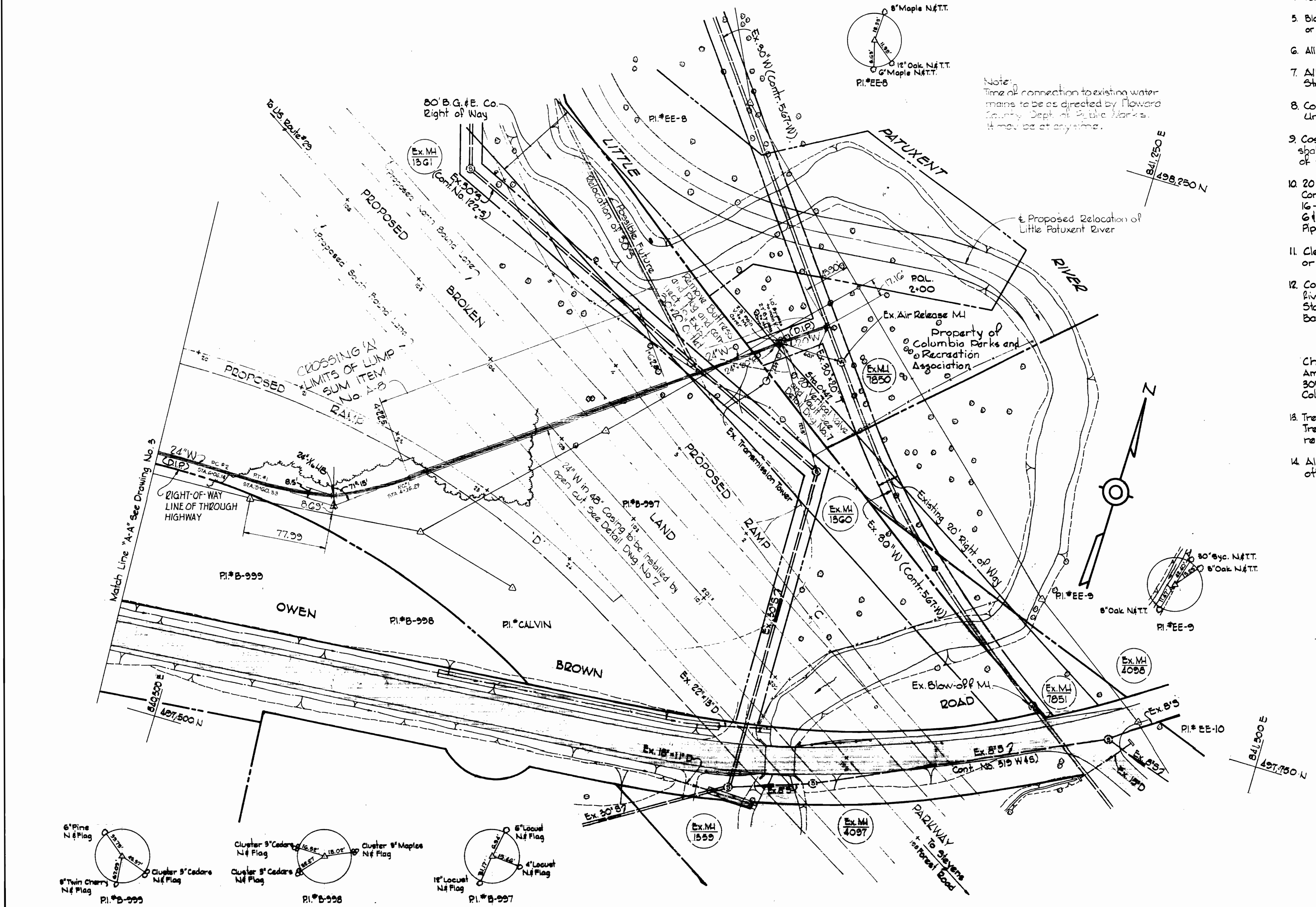
U.S. ROUTE 29 WATER MAIN
BROKEN LAND PARKWAY
TO MARYLAND ROUTE 32

DRAWING NO. 1 OF 9	SCALE 1"=2000'
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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. Block all fittings with concrete, see standards bound in Specifications or special details.
6. All Horizontal and Vertical controls are based on Maryland State Datum.
7. All Fire Hydrants shall be strapped in accordance with Standards Bound in Specification.
8. Cost of strapping Fire Hydrants shall be included in the Unit Price bid for furnishing and laying of water mains.
9. Cost of providing Outlets on 24" Water for future connections shall be including in Unit Price bid for furnishing and laying of 24" water mains.
10. 20 & 24-inch water main shall be Ductile Iron Pipe or Prestressed Concrete Cylinder Pipe. 16-inch water main shall be Cast Iron Pipe Class 25 or Ductile Iron Pipe Class 3. 6 & 8-inch water main shall be Asbestos Cement Pipe, Cast Iron Pipe or Ductile Iron Pipe.
11. Clear all utilities by a minimum of 6'; clear all poles 2'-0" minimum or tunnel as required.
12. Contractor shall notify the following utilities or agencies at least five (5) days before starting work shown on these plans:
 State Highway Administration - 531-5553.
 Baltimore Gas and Electric Company:
 Underground Electric Distribution Engineering, Damage Control - 234-5691.
 Underground Gas Distribution Engineering - 559-0100.
 Chesapeake and Potomac Telephone Company - 727-9976.
 American Telephone and Telegraph - Cable Location Division 301-393-3553.
 Colonial Pipeline Company - 781-4641.
13. Trees are to be protected from damage to maximum extent. Trees located within the Construction Strip are not to be removed or damaged by the contractor.
14. All water mains shall have a minimum of 3 1/2' cover unless otherwise noted.

Note:
 Time of connection to existing water mains to be as directed by Howard County Dept. of Public Works. It may be at anytime.



Kenneth A. McCord

U.S. Route #29 - Water Main
 Project No. W.P. 8071
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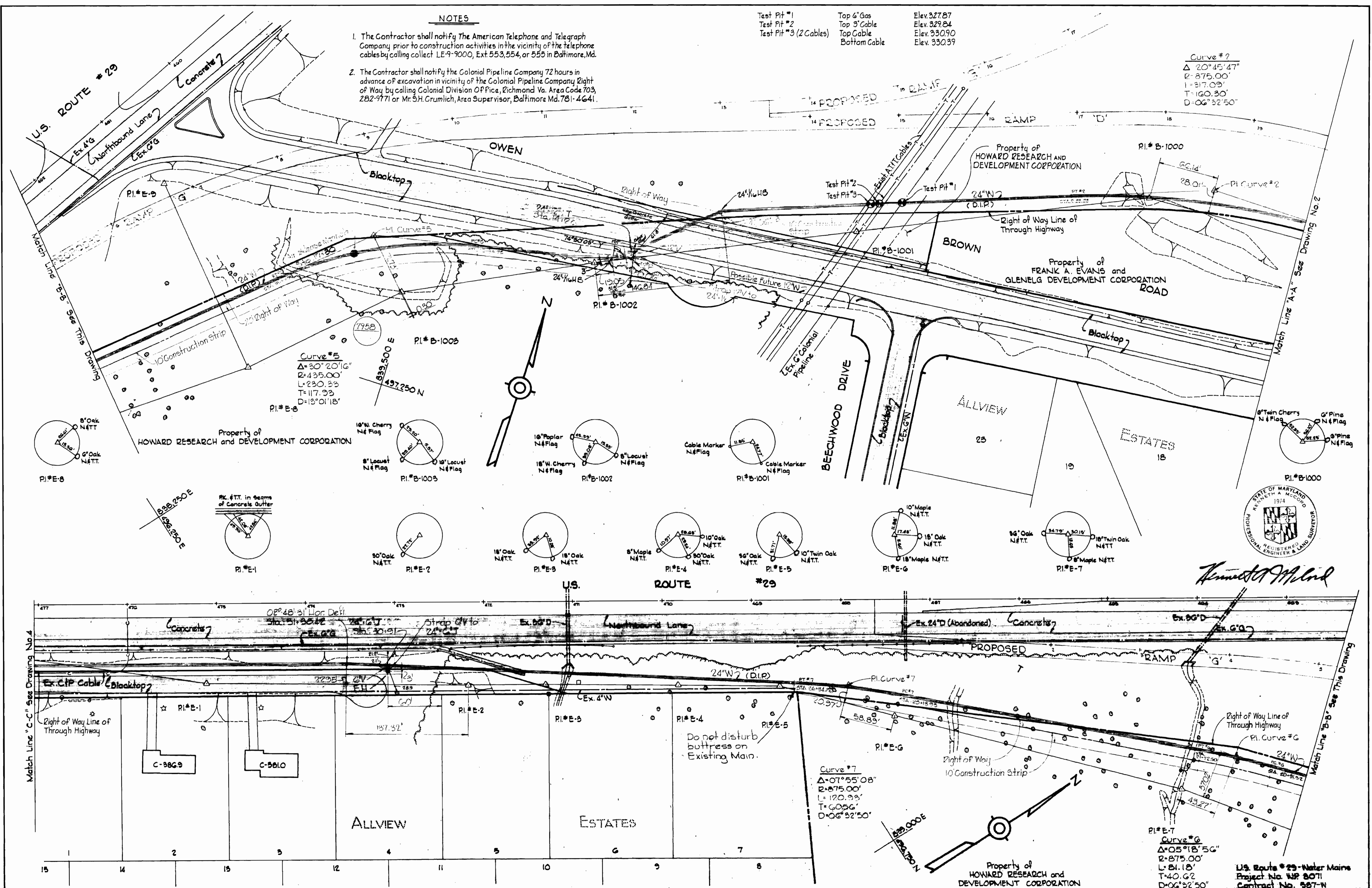
WHITMAN, REQUARDT & ASSOCIATES ENGINEERS 1304 ST. PAUL ST. BALTIMORE, MARYLAND	DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND 9-16-74 DATE <i>W. O. Gilbert</i> CHIEF BUREAU OF ENGINEERING	CONTRACT NO. 587-W	PLAN OF WATER MAINS	U.S. ROUTE 29 WATER MAIN BROKEN LAND PARKWAY TO MARYLAND ROUTE 32	DRAWING NO. 2 OF 9 SCALE 1" = 50' FB 5484, 5483 September - 23, 1976 AS BUILT
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NOTES

- The Contractor shall notify The American Telephone and Telegraph Company prior to construction activities in the vicinity of the telephone cables by calling collect LE-9-9000, Ext. 553,554, or 555 in Baltimore, Md.
- The Contractor shall notify the Colonial Pipeline Company 72 hours in advance of excavation in vicinity of the Colonial Pipeline Company Right of Way by calling Colonial Division Of Pipe, Richmond Va. Area Code 703, 282-9771 or Mr. S.H. Crumlich, Area Supervisor, Baltimore Md. 781-4641.

Test Pit #1	Top 6" Gas	Elev. 327.87
Test Pit #2	Top 3" Cable	Elev. 329.84
Test Pit #3 (2 Cables)	Top Cable	Elev. 330.90
	Bottom Cable	Elev. 330.39

Curve #7
 $\Delta = 20^\circ 45' 47''$
 $R = 875.00'$
 $L = 317.09'$
 $T = 160.30'$
 $D = 06^\circ 32' 50''$



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 9-16-74
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CONTRACT NO. 587-W

PLAN OF WATER MAINS

**U.S. ROUTE 29 WATER MAIN
 BROKEN LAND PARKWAY
 TO MARYLAND ROUTE 32**

DRAWING NO. 3 OF 9
 SCALE 1" = 50'

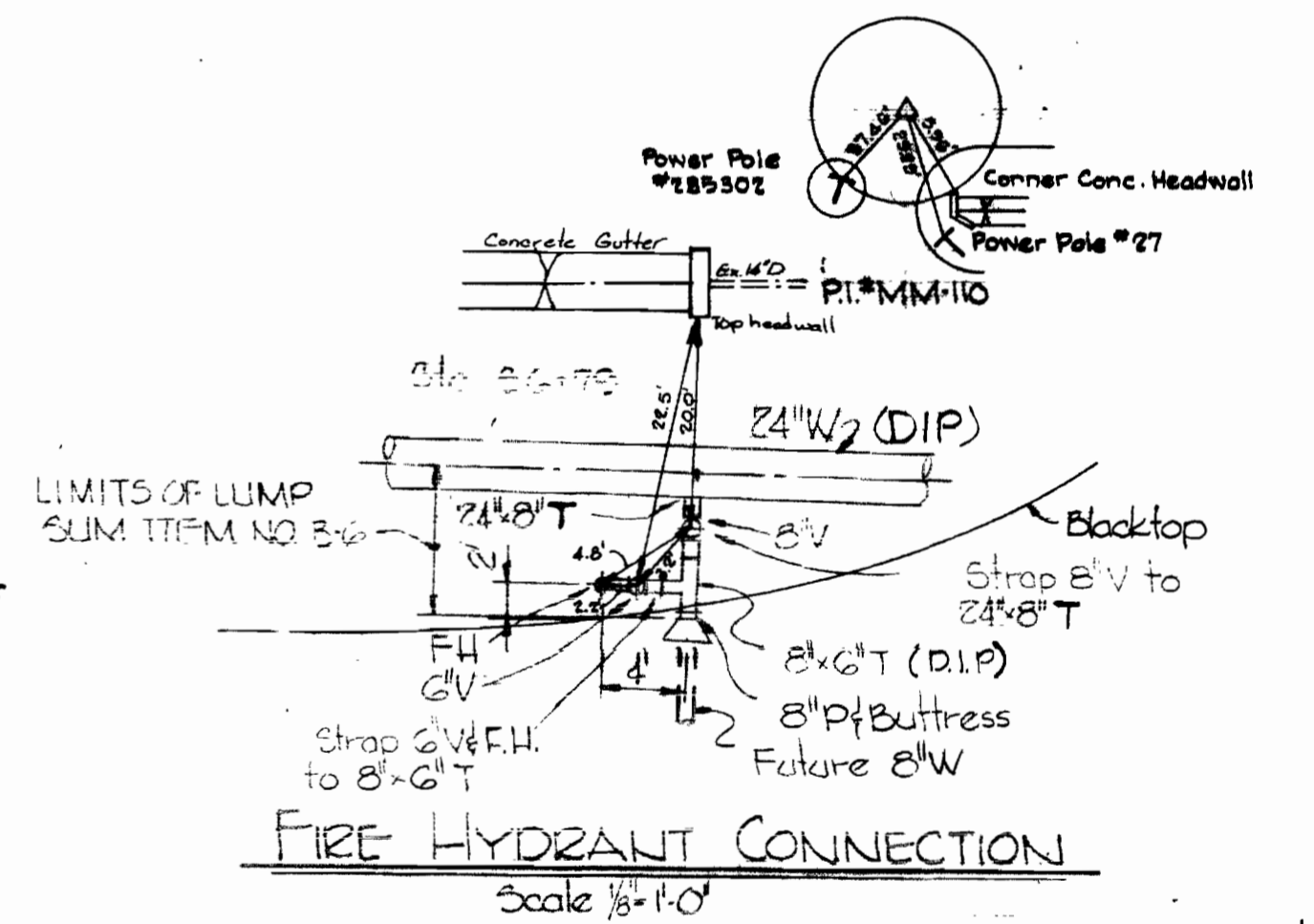
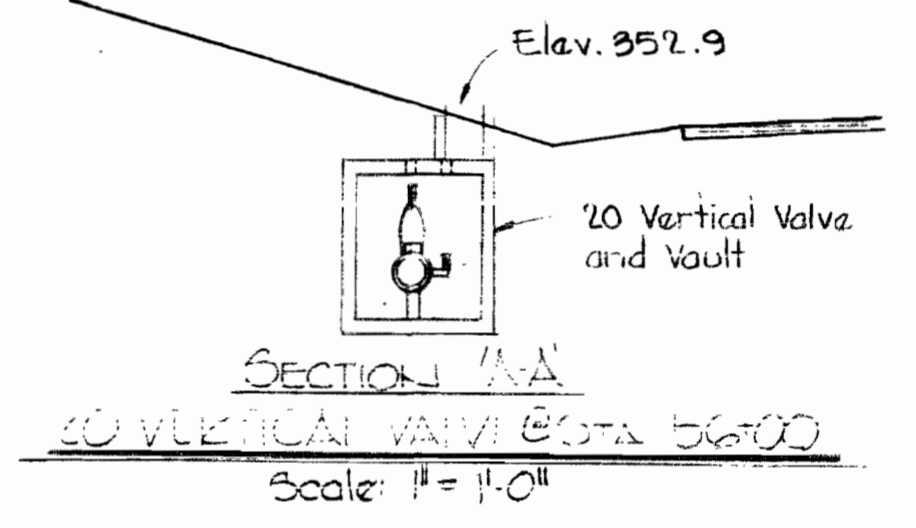
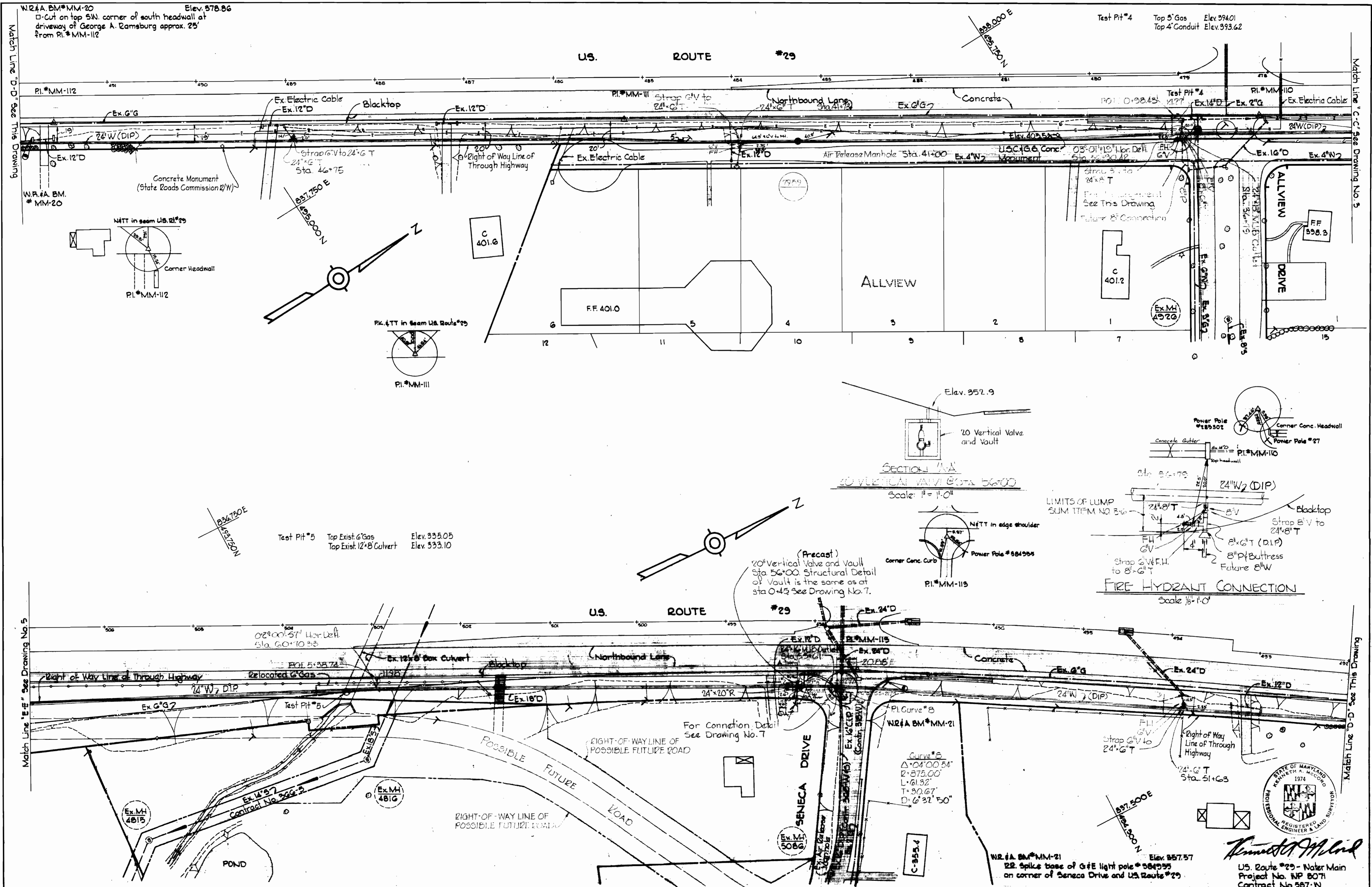
W. O. 6800-2

FB# 4224, 5499, 5407
 September 23, 1976 AS BUILT

WS 587-W/3

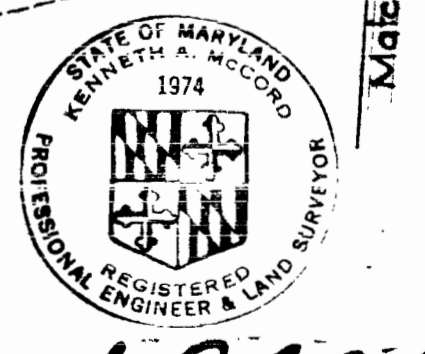
SUSPENSE

SUSPENSE



(Precast)
20' Vertical Valve and Vault
Sta. 56+00. Structural Detail
of Vault is the same as at
Sta. 0+43 See Drawing No. 7.

W24A BM*MM-21
Elev. 857.57
22" Splice base of gas light pole #584595
on corner of Seneca Drive and U.S. Route #29.



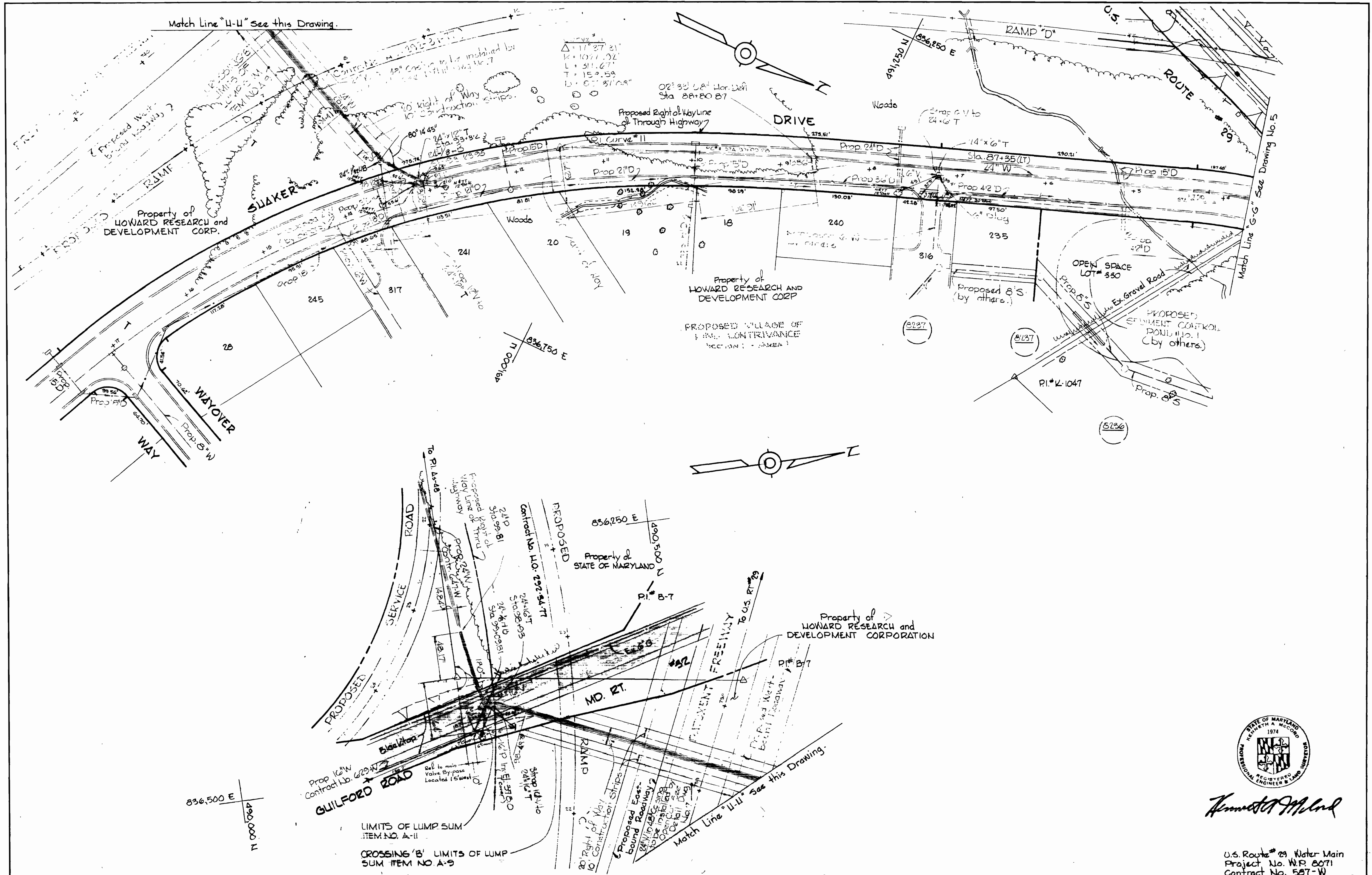
Arnold M. Lind
U.S. Route #29 - Water Main
Project No. WP 8071
Contract No. 587-W

<p>WHITMAN, REQUARDT & ASSOCIATES ENGINEERS 1304 ST. PAUL ST. BALTIMORE, MARYLAND</p>	<p>DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND 9-16-74 DATE</p> <p><i>W. O. Pulbert</i> CHIEF BUREAU OF ENGINEERING</p>	<p>CONTRACT NO. 587-W</p>	<p>PLAN OF WATER MAINS</p>	<p>U.S. ROUTE 29 WATER MAIN BROKEN LAND PARKWAY TO MARYLAND ROUTE 32</p>	<p>DRAWING NO. 4 OF 9 SCALE 1" = 50'</p>
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inspex

inspex

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Kenneth A. McCord

U.S. Route # 29 Water Main
 Project No. W.R. 5871
 Contract No. 587-W

WHITMAN, REQUARDT & ASSOCIATES ENGINEERS 1304 ST. PAUL ST. BALTIMORE, MARYLAND	DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND 9-16-74 <i>W. O. Filbert</i> CHIEF BUREAU OF ENGINEERING	CONTRACT NO. 587-W	PLAN OF WATER MAINS	U.S. ROUTE 29 WATER MAIN BROKEN LAND PARKWAY TO MARYLAND ROUTE 32	<table border="1"> <tr> <td>DRAWING NO. 6</td> <td>SCALE 1" = 50'</td> </tr> <tr> <td>OF 9</td> <td>491-B</td> </tr> <tr> <td></td> <td>490-C</td> </tr> <tr> <td></td> <td>490-D</td> </tr> </table>	DRAWING NO. 6	SCALE 1" = 50'	OF 9	491-B		490-C		490-D
DRAWING NO. 6	SCALE 1" = 50'												
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	490-C												
	490-D												

W.O. 6800-2

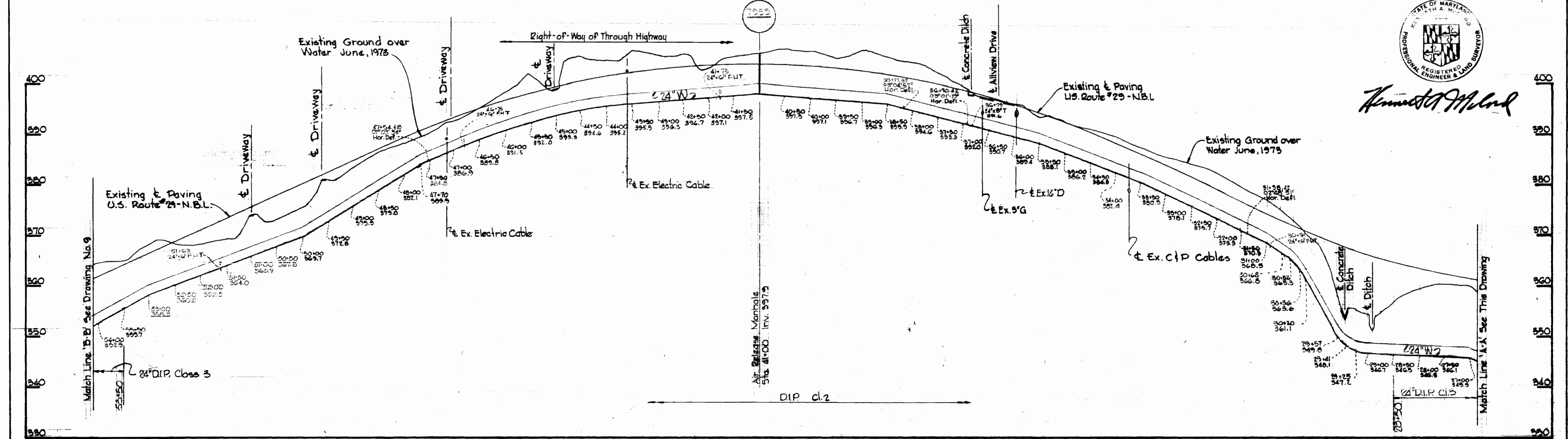
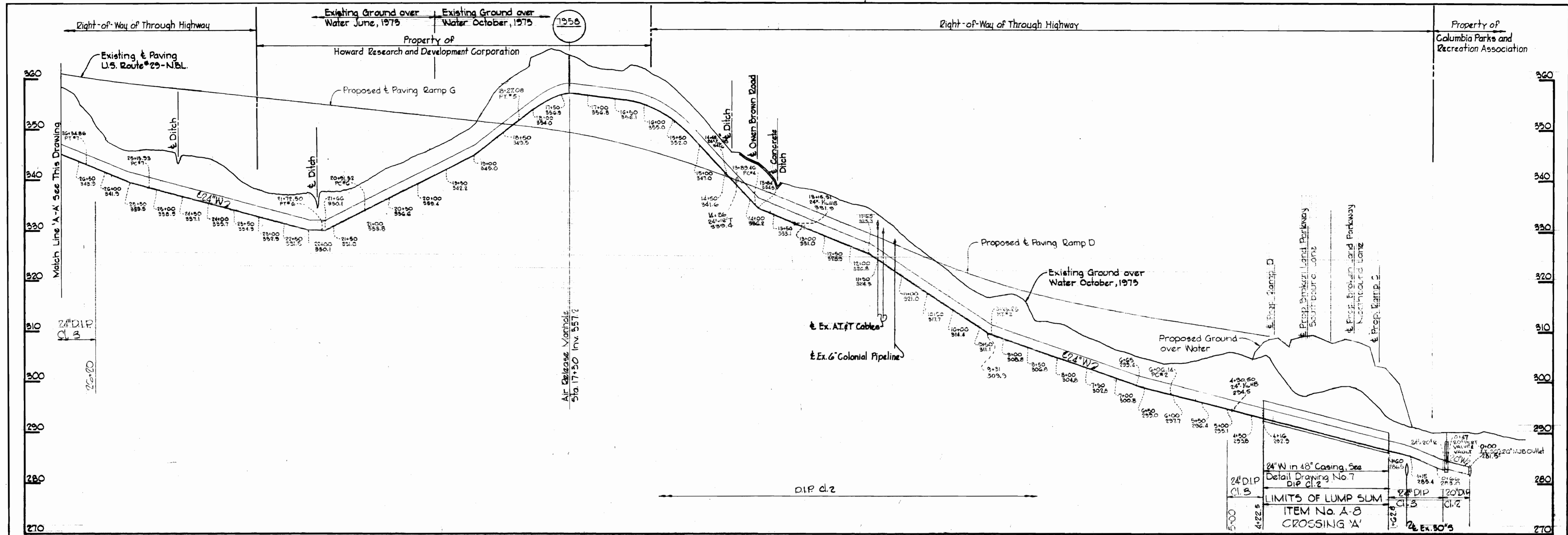
September 23, 1974 AS ELM

WS 587-W/6

SUSPENSEX

SUSPENSEX

SUSPENSEX



Harold A. Wilford

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DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND
9-16-74
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W.O. Fallick
CHIEF BUREAU OF ENGINEERING

CONTRACT NO. 587-W

PROFILE OF
WATER MAINS

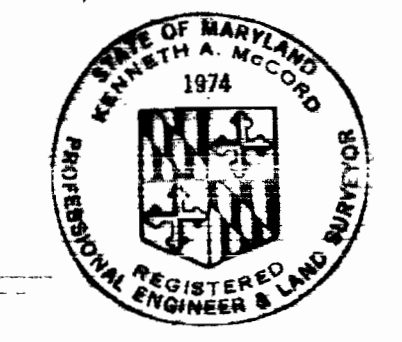
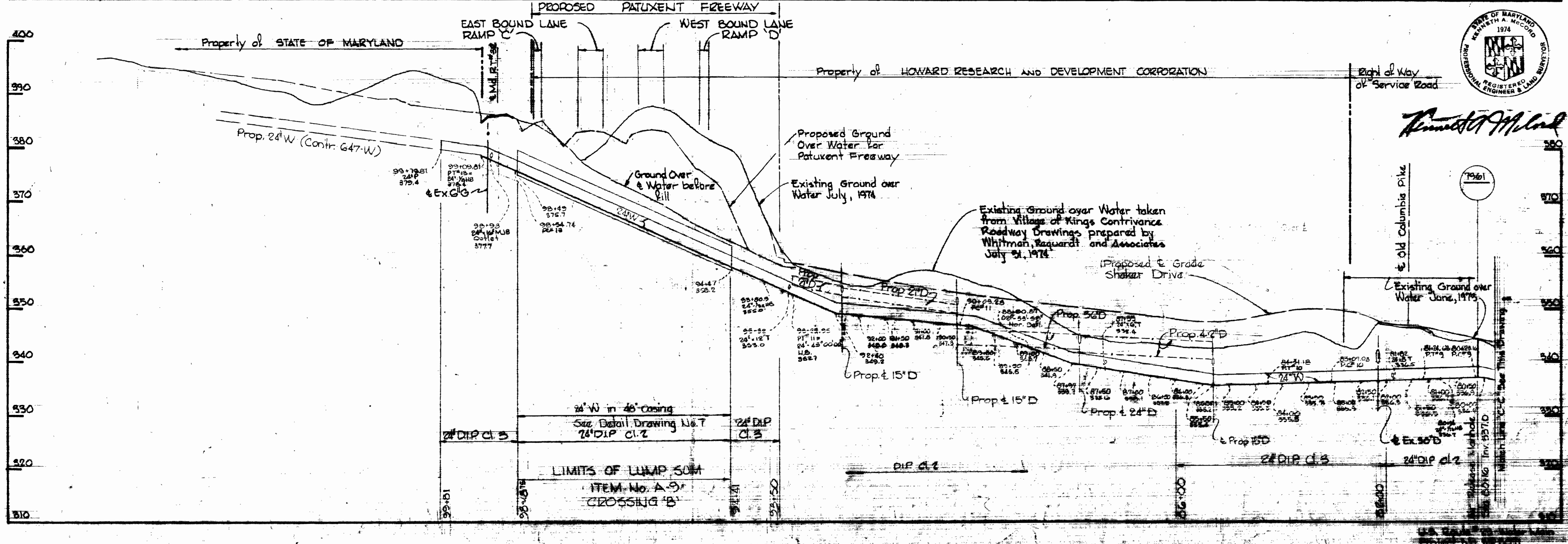
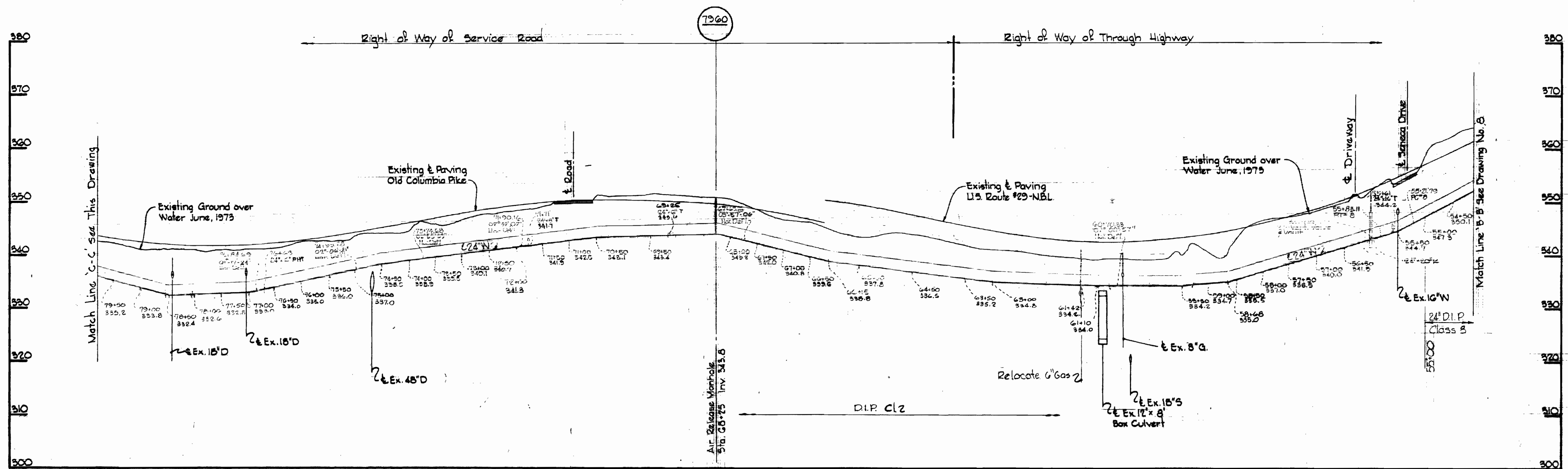
U.S. ROUTE 29 WATER MAIN
BROKEN LAND PARKWAY
TO MARYLAND ROUTE 32

DRAWING NO. 8 OF 9	SCALE H:1"=100' V:4"=10'
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W. O. 6500-2

September 23, 1976 AS BUILT

WS 587-W/8



Kenneth A. McCord

WHITMAN, REQUARDT & ASSOCIATES ENGINEERS 1304 ST. PAUL ST. BALTIMORE, MARYLAND	DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND 9-16-74 <i>W. O. Pulbed</i> CHIEF BUREAU OF ENGINEERING	CONTRACT NO. 587-W	PROFILE OF WATER MAINS	U.S. ROUTE 29 WATER MAIN BROKEN LAND PARKWAY TO MARYLAND ROUTE 52	DRAWING SCALE NO. 9 OF 9 1" = 100' V.P. 1974
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W. O. 6800-2

September 23, 1974 AS BUILT

WS 587-W/9

suspense

suspense

DRAWING 4440 1072