

**CONTRACT NO. 2698 D W&S**  
**VILLAGE OF KINGS CONTRIVANCE**  
**HOWARD COUNTY, MARYLAND**  
**DEPARTMENT OF PUBLIC WORKS**

QUANTITIES	
ITEM	QUANTITY
8" Sewer	5112.5810 L.F.
8" Water	3290.3330 L.F.
6" Water	2000.2130 L.F.
Fire Hydrants	8

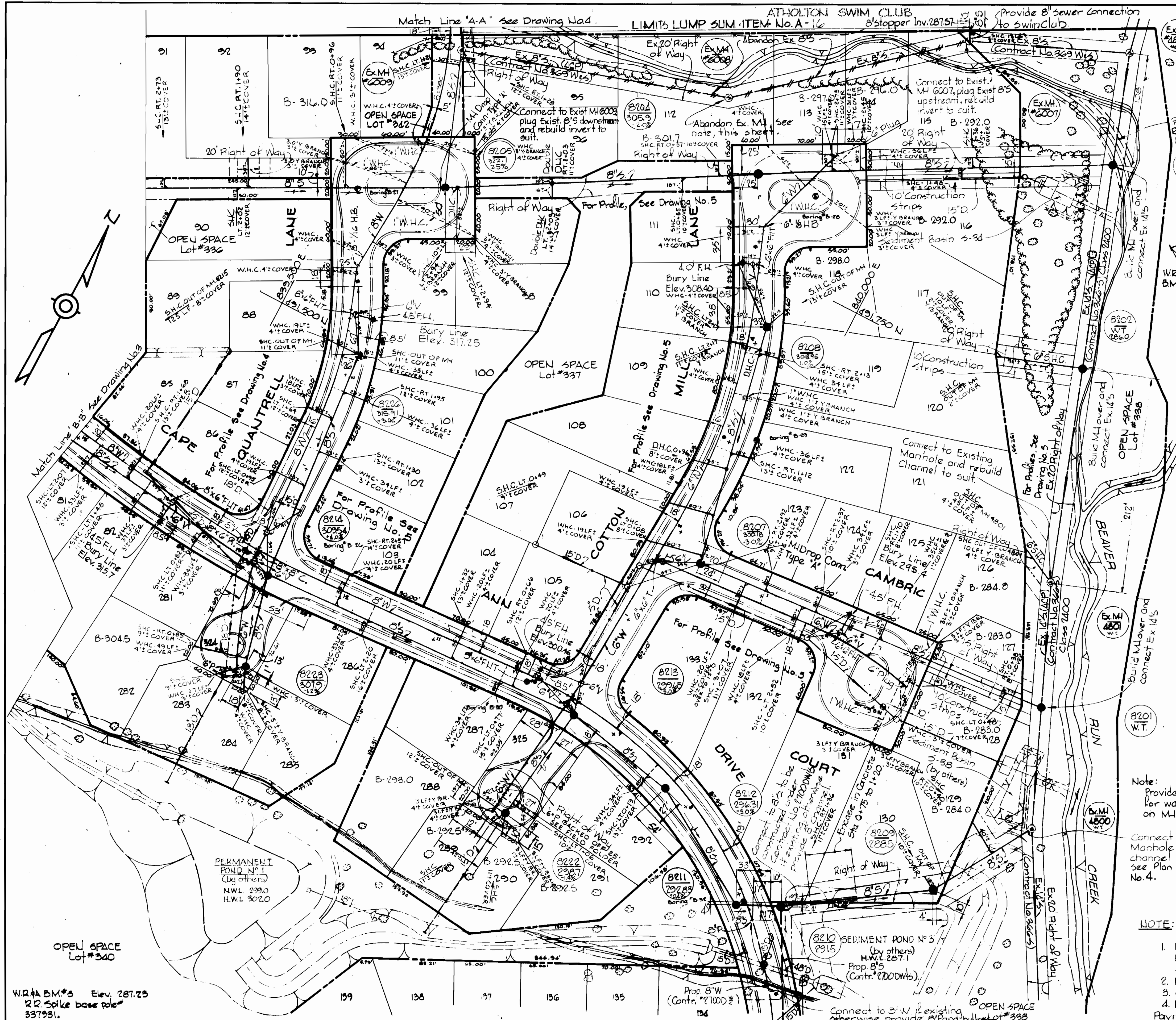


*Kenneth A. McCord*

Village of Kings Contrivance  
 Part 1 of 4  
 Section 1 Area 1  
 Contract No. 2698 D W&S

6" 48 Water Pipes - DIP Class 52 Unless otherwise  
 8" Sewer Pipes - ACP Class 2400 noted on Profile

WHITMAN, REQUARDT & ASSOCIATES ENGINEERS 1304 ST. PAUL ST. BALTIMORE, MARYLAND	DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND <i>P. J. Regan</i> 12-6-76 DIRECTOR OF PUBLIC WORKS - DATE	CONTRACT NO. <u>2698DW&amp;S</u>	LOCATION MAP OF WATER & SEWER MAIN EXTENSIONS	COLUMBIA VILLAGE OF KINGS CONTRIVANCE ELECTION DISTRICT GUILFORD NO. 6	DRAWING NO. <u>1</u> OF <u>6</u>	SCALE <u>1"=800'</u>
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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. Clear all utilities by a minimum of 6', clear all poles by a minimum of 2'-0" or tunnel as required.
6. All water mains to have a minimum of 3 1/2' cover.
7. Payment for strapping fire hydrants and valves will be included in unit price bid for furnishing and laying water mains.
8. Block all fittings with concrete see standards bound in Specifications.
9. All fire hydrants shall be strapped and buttressed in accordance with standard details. Soil around the fire hydrants shall be compacted in accordance with Section 5-13 of the Standard Specifications.
10. All W.H.C.'s to be 3/4" diameter unless otherwise noted.
11. Bury Line elevations on fire hydrants shall be set to elevations shown on drawing.
12. All valves shall be strapped to tees where applicable in accordance with the Standard Details.
13. Water services shall be for inside meter setting.
14. All water mains to be C.I.P., D.I.P. or A.C.P. unless otherwise noted.
15. The Contractor shall provide a joint in all sewer mains within 2'-0" of exterior.
16. All manholes to be 4'-0" inside diameter.
17. Manholes shown with 12" walls are for brick manholes only.
18. Manholes designated W.T. in plan and profile shall have watertight frames and covers.
19. All sewer mains shall be C.S.P.X., V.C.P.X. or A.C.P. Class 2400, unless otherwise noted.
20. Ground over & water and/or sewer was taken from contour maps based on aerial photography except where labeled existing and dated.
21. All horizontal and vertical controls are based on Maryland State Datum.
22. Basement elevations shown are the minimum elevations which can be served by sewer mains.
23. The Contractor shall notify the following utilities or agencies, at least five (5) days before starting work shown on these plans:
  - Baltimore Gas and Electric Company, - 254-5691
  - Underground Electric, - 559-0100
  - Underground Gas, - 727-9976
  - Chesapeake and Potomac Telephone Company - 727-9976
  - The American Telephone and Telegraph Company (Collect) LE9-9900, ext. 553, 554, or 555 in Baltimore Maryland.
  - The Colonial Pipeline Company in Richmond, Va. area code 703, 282-9971, or Mr. Crumlich, area supervisor in Baltimore, Md. 787-2295.

Note: Provide new gaskets for watertight covers on M.H.'s 4800 & 4801.

Connect to Existing Manhole and rebuild channel to suit. See Plan Invert Drawing No. 4.

Note: Auger Borings were made by the Chesapeake Drilling Company, for Purdum & Jeschke in September, 1973. Complete Logs are available at the Lloard County Department of Public Works.

**NOTE:** Existing Manhole 6008 shall be abandoned as follows:

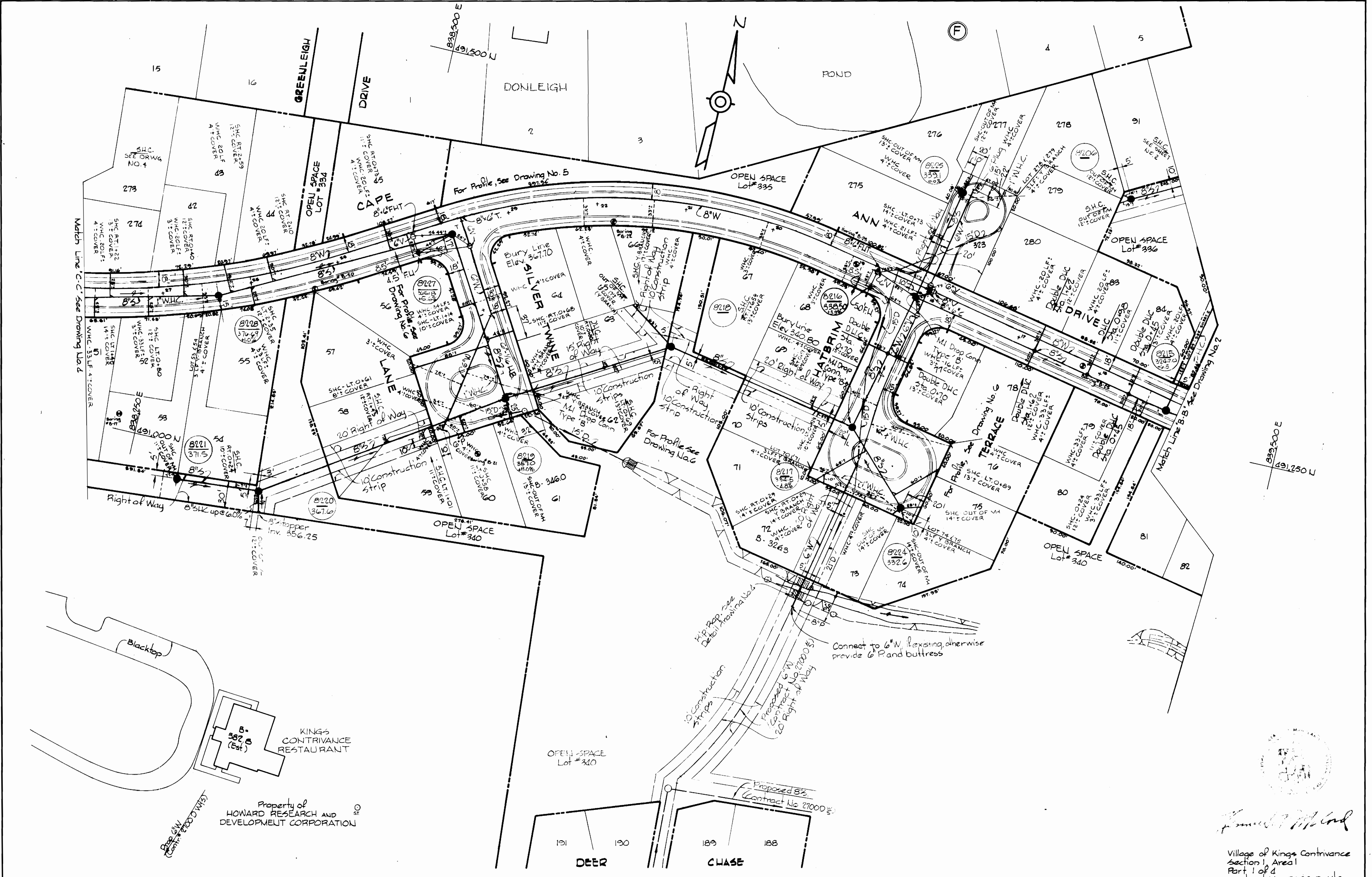
1. Manhole 6008 is a precast manhole. Remove manhole frame and cover and cone section.
2. Plug inlet and outlet pipes.
3. Completely fill with Class 'D' concrete.
4. Restore disturbed area.

Payment will be made under LUMP SUM ITEM No. A-16



*James M. McLeod*  
 Village of Kings Contrivance  
 Section 1, Area 1  
 Part 1 of 8  
 Contract No. 2698 D W 6

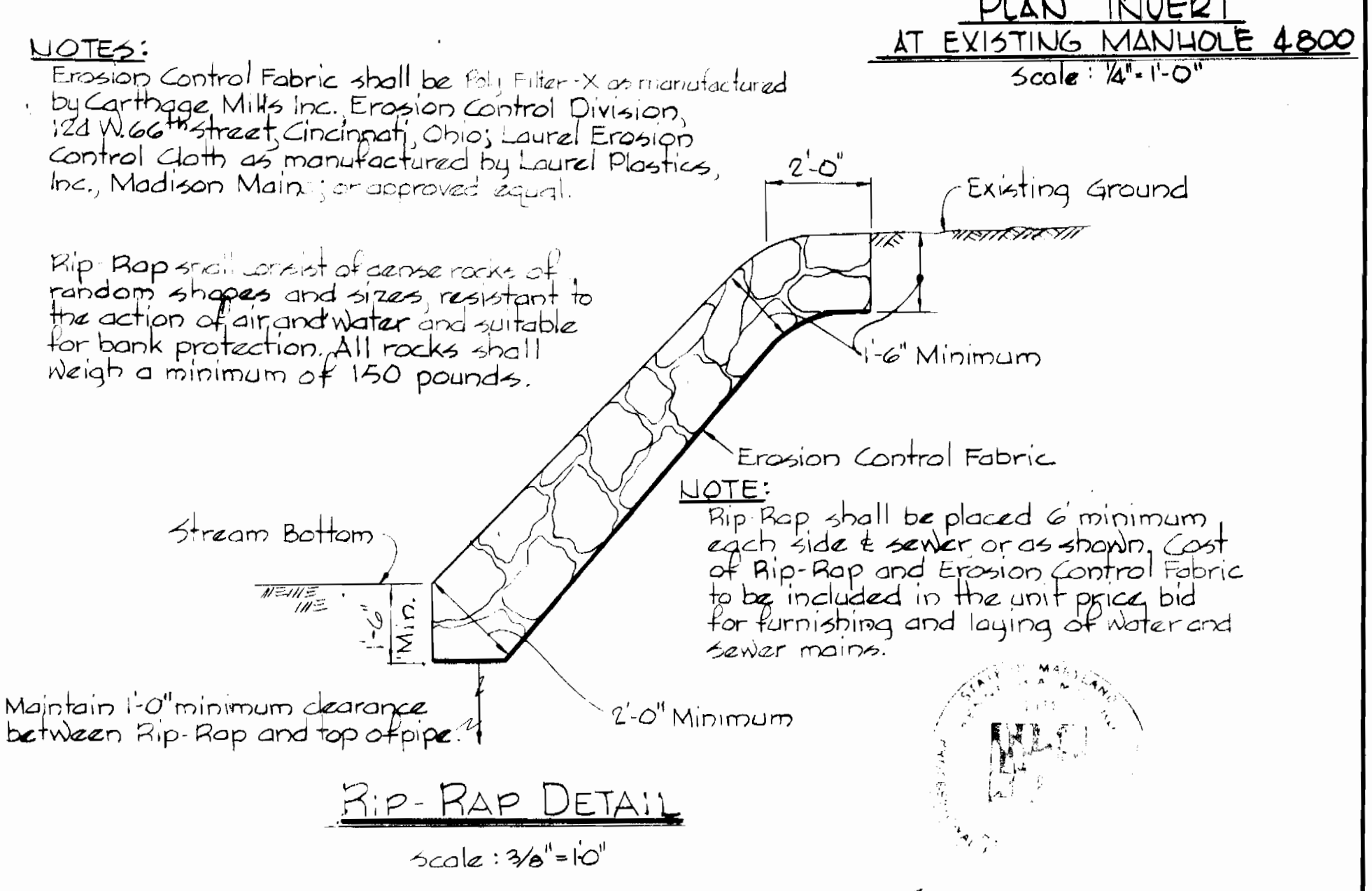
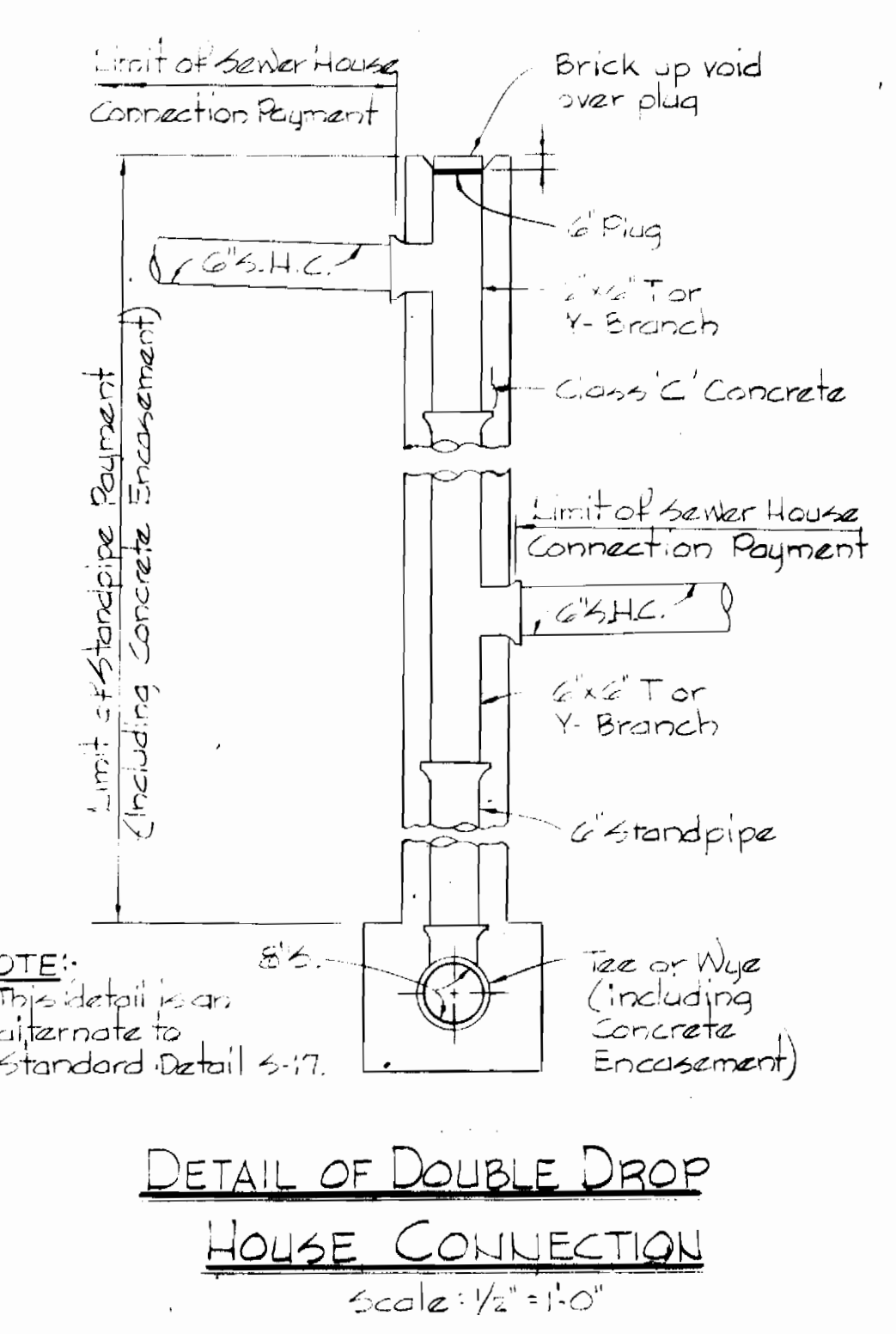
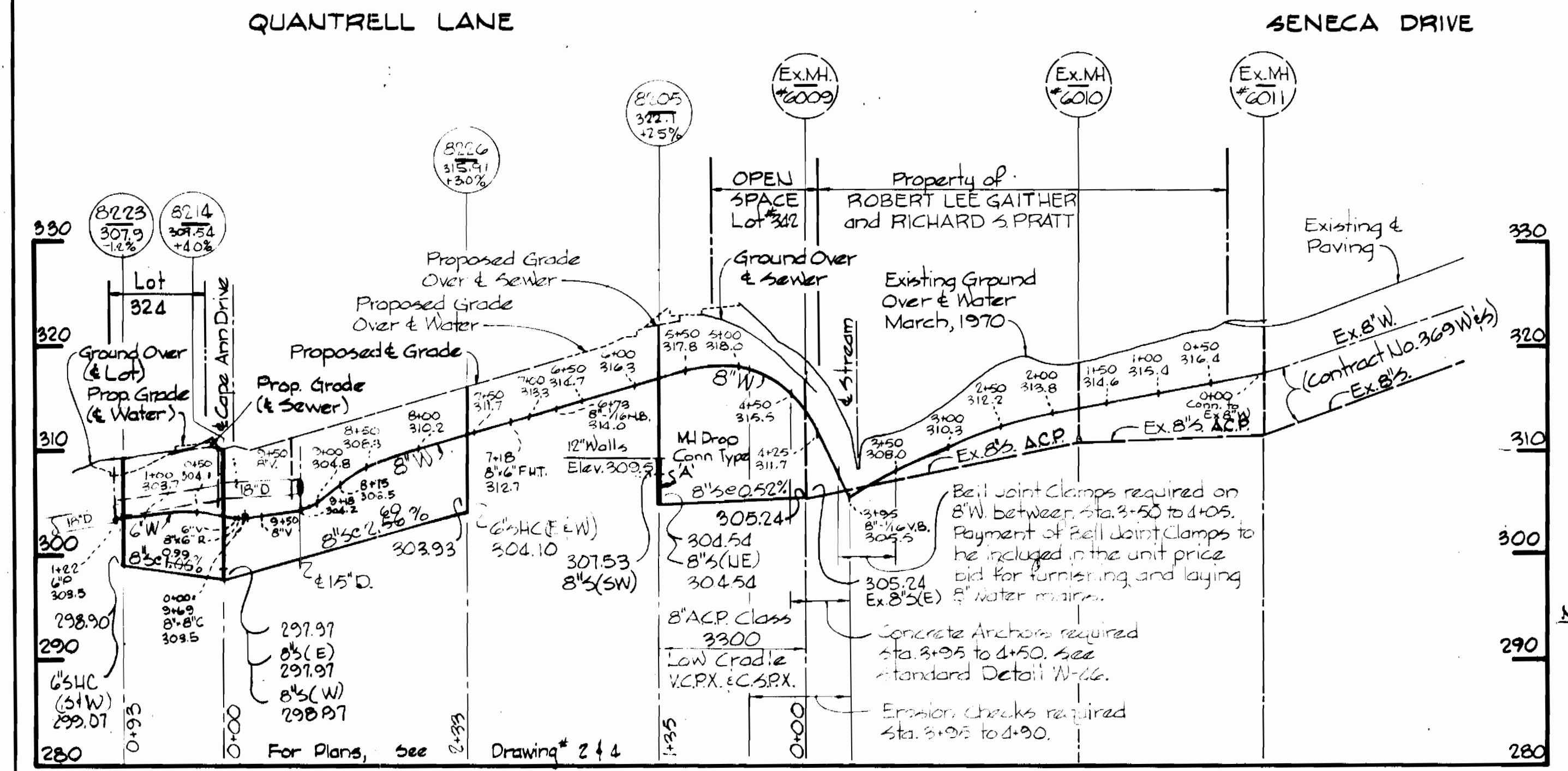
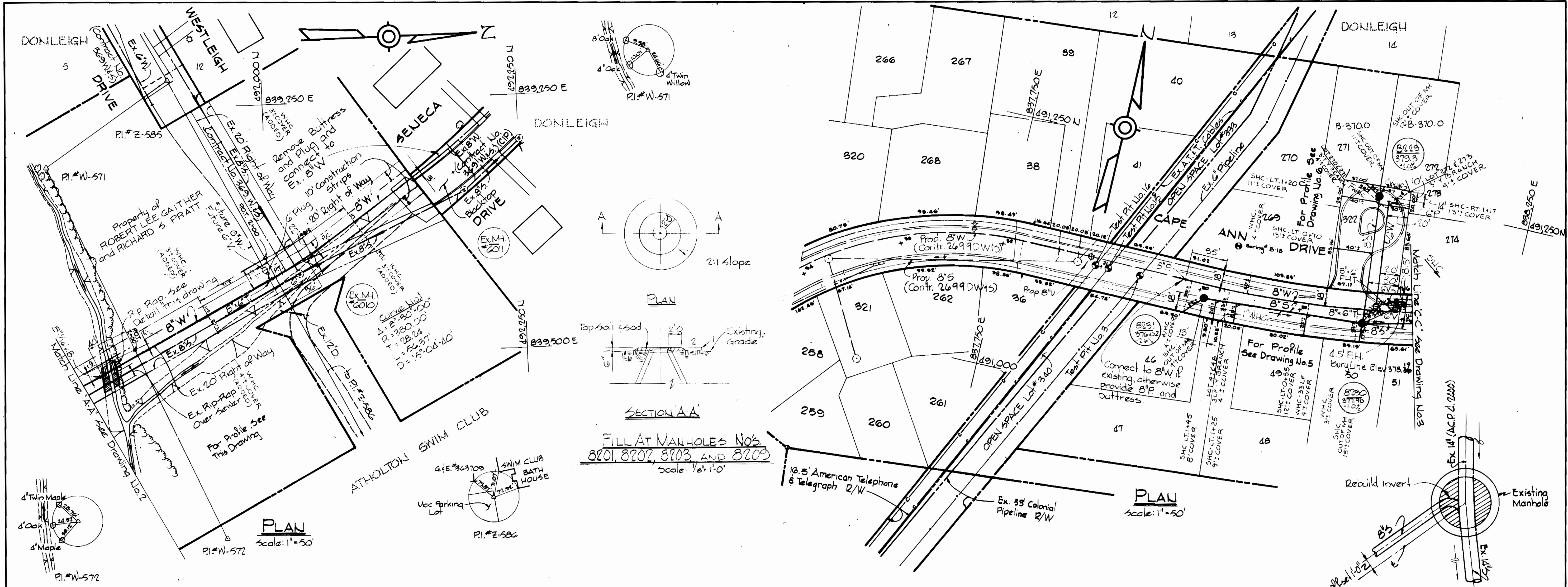
<b>WHITMAN, REQUARDT &amp; ASSOCIATES</b> ENGINEERS 1304 ST. PAUL ST. BALTIMORE, MARYLAND	<b>DEPARTMENT OF PUBLIC WORKS</b> HOWARD COUNTY, MARYLAND <i>R. J. Boyd</i> 12-6-76 DIRECTOR OF PUBLIC WORKS - DATE	<b>CONTRACT NO. 2698 D W 6</b> <i>W. O. Falvat</i> 12-6-76 CHIEF BUREAU OF ENGINEERING - DATE	<b>PLAN OF</b> <b>WATER AND SEWER MAINS</b>	<b>COLUMBIA</b> <b>VILLAGE OF KINGS CONTRIVANCE</b> <b>ELECTION DISTRICT GUILFORD NO. 6</b>	<b>DRAWING NO. 2</b> <b>OF 6</b>	<b>SCALE</b> <b>1" = 50'</b>
					492-480 491-480 194, 19-1	



*James J. McLeod*

Village of Kings Contrivance  
 Section 1, Area 1  
 Part 1 of 4  
 Contract No. 2698 DWS

<b>WHITMAN, REARDT &amp; ASSOCIATES</b> ENGINEERS 1304 ST. PAUL ST. BALTIMORE, MARYLAND	<b>DEPARTMENT OF PUBLIC WORKS</b> HOWARD COUNTY, MARYLAND <i>P. J. Page</i> 12-6-76 DIRECTOR OF PUBLIC WORKS - DATE	<b>CONTRACT NO. 2698D WBS</b> <i>W. J. Albert</i> 12-6-76 CHIEF BUREAU OF ENGINEERING - DATE	<b>PLAN OF</b> <b>WATER AND SEWER MAINS</b>	<b>COLUMBIA</b> <b>VILLAGE OF KINGS CONTRIVANCE</b> <b>ELECTION DISTRICT GUILFORD NO. 6</b>	<b>DRAWING</b> <b>NO. 3</b> <b>OF 6</b> <b>SCALE</b> <b>1"=50'</b> 19-M
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**WHITMAN, REQUARDT & ASSOCIATES**  
**ENGINEERS**  
 1304 ST. PAUL ST.  
 BALTIMORE, MARYLAND

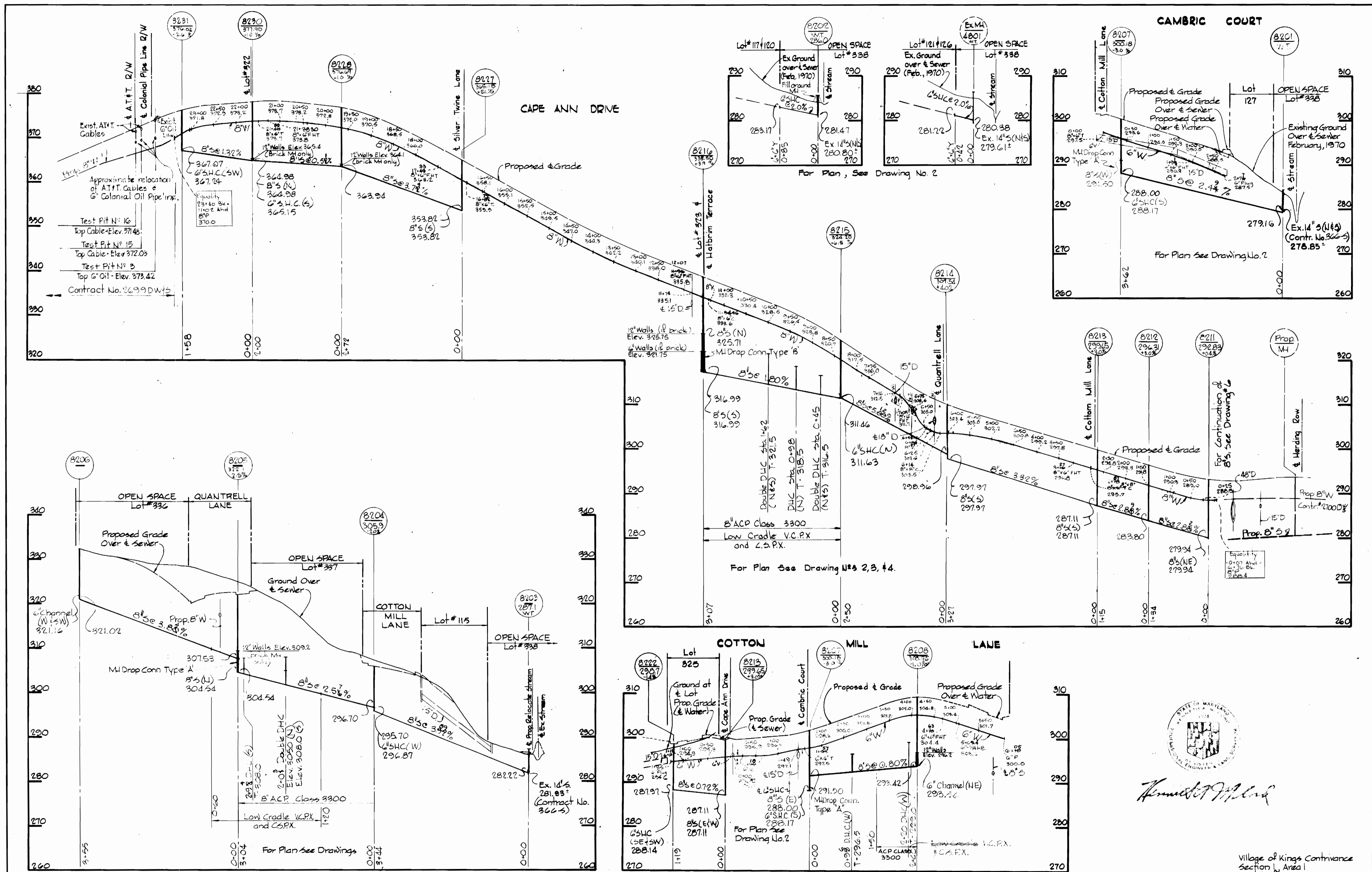
**DEPARTMENT OF PUBLIC WORKS**  
 HOWARD COUNTY, MARYLAND  
*W. O. G. 12-6-76*  
 DIRECTOR OF PUBLIC WORKS - DATE

**CONTRACT NO. 2698 D W 5**  
*W. O. G. 12-6-76*  
 CHIEF BUREAU OF ENGINEERING - DATE

**PLAN, PROFILE & DETAILS**  
**OF WATER AND SEWER MAINS**

**COLUMBIA**  
**VILLAGE OF KINGS CONTRIVANCE**  
**DISTRICT GUILFORD NO. 6**

**DRAWING NO. 4**  
**OF 6**  
**SCALE AS SHOWN**



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

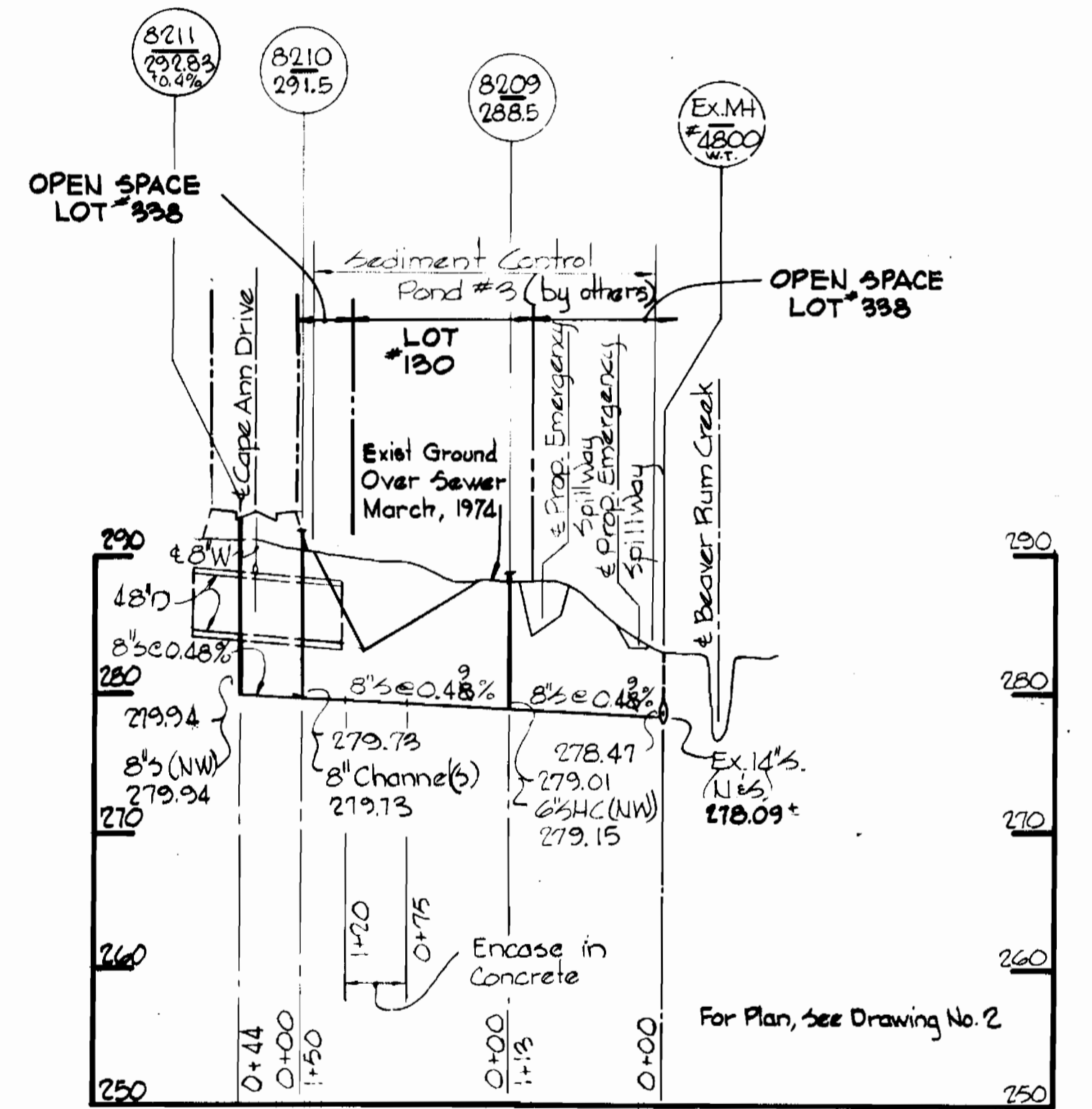
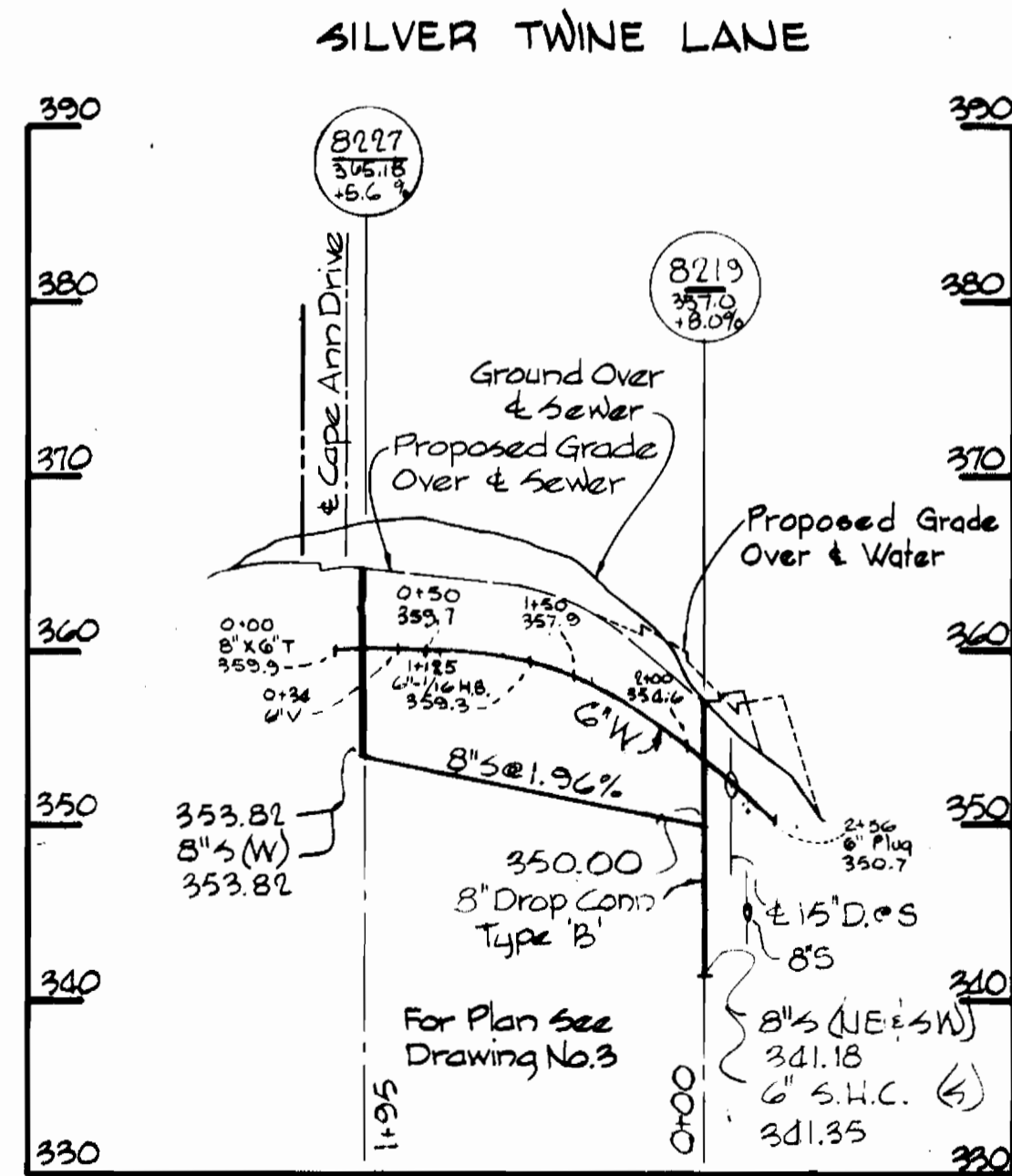
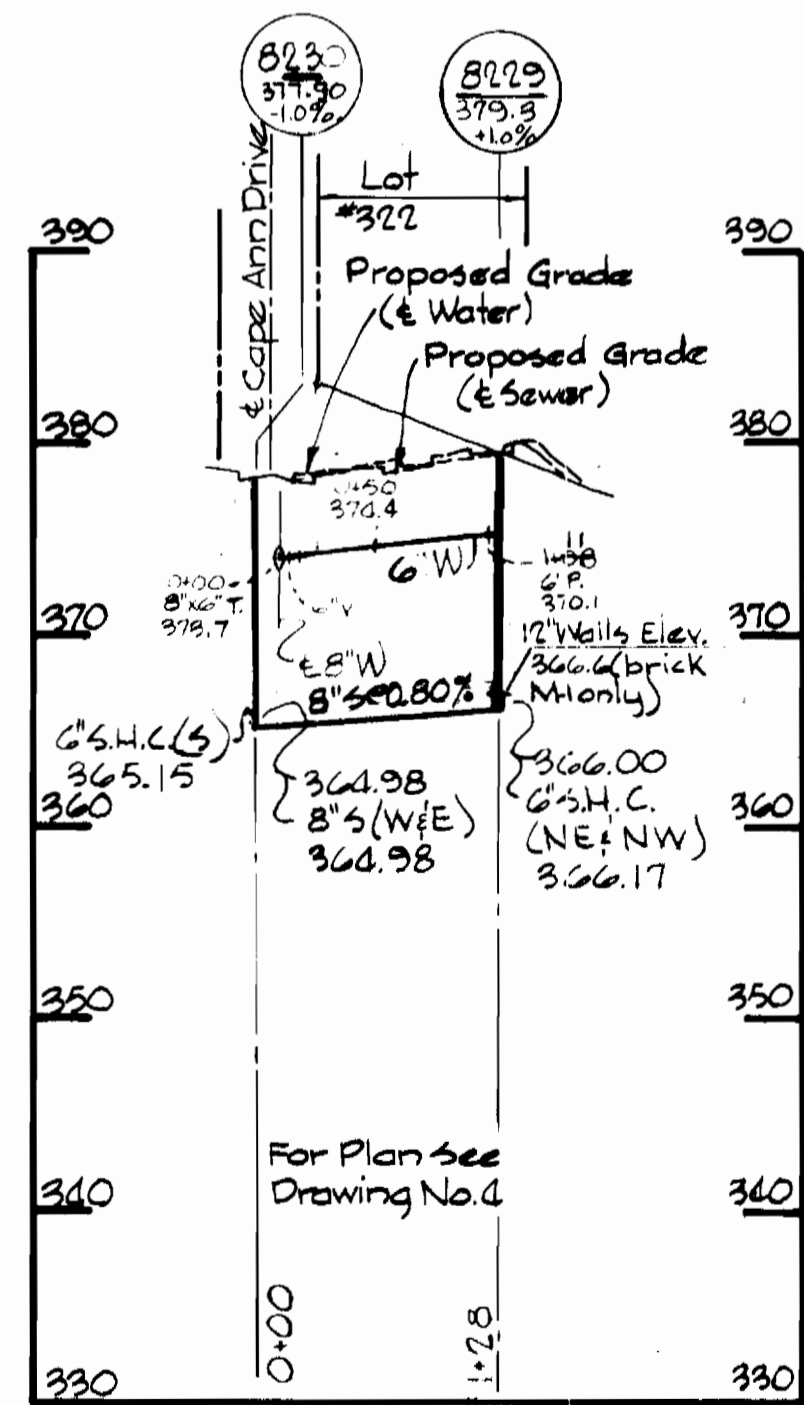
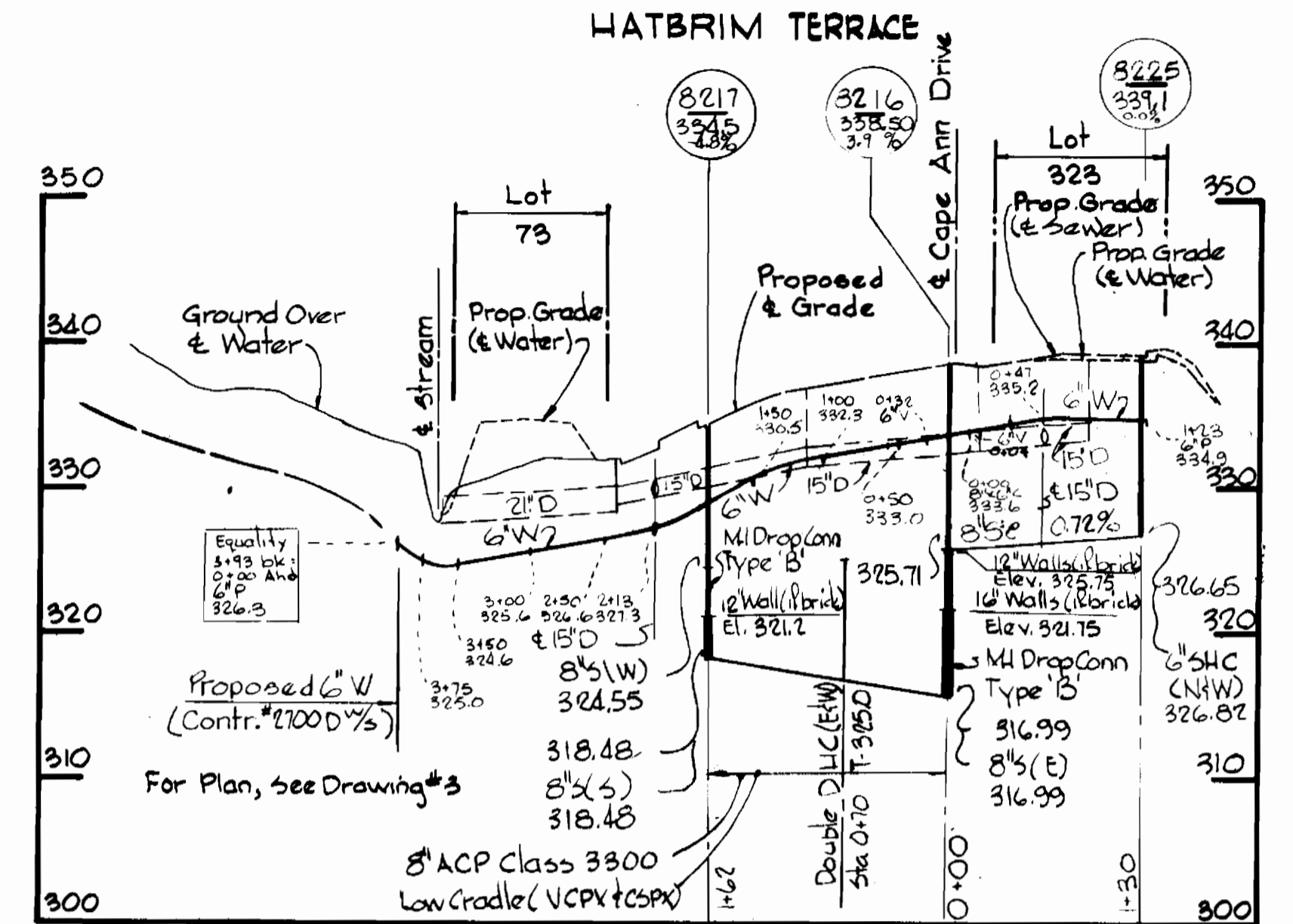
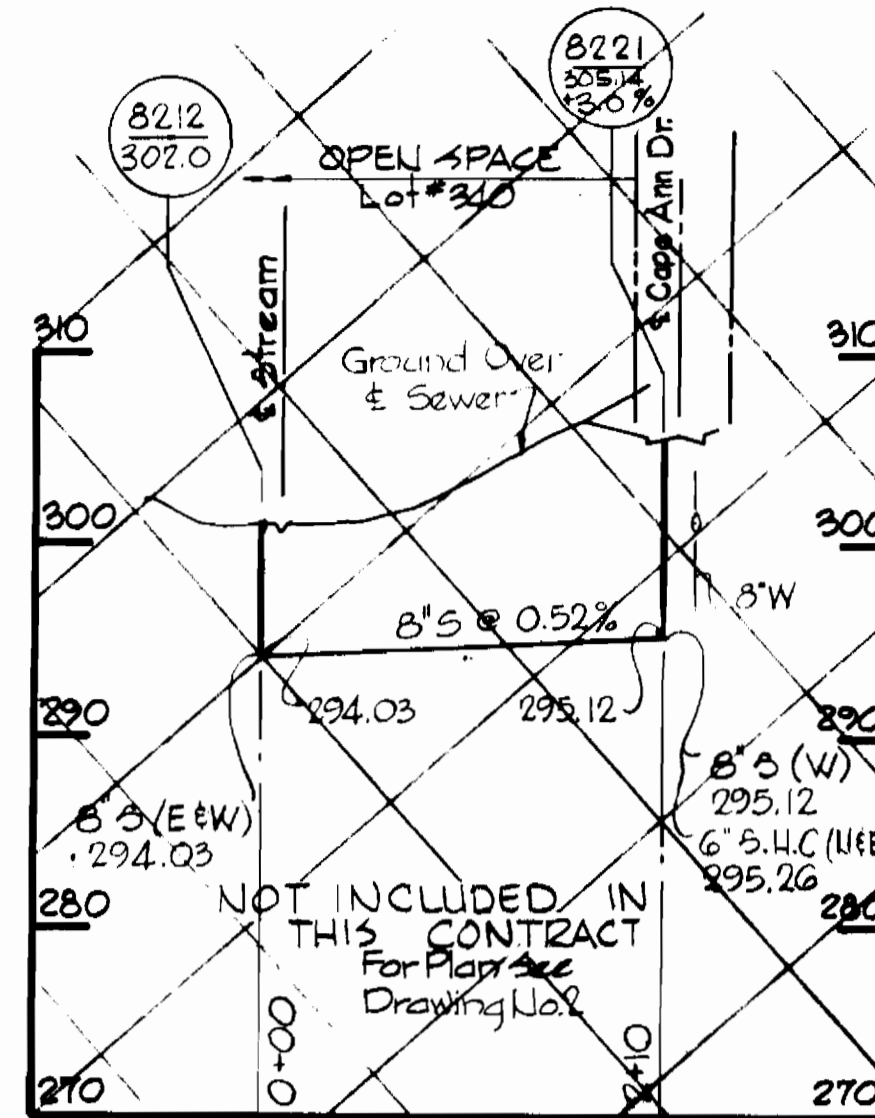
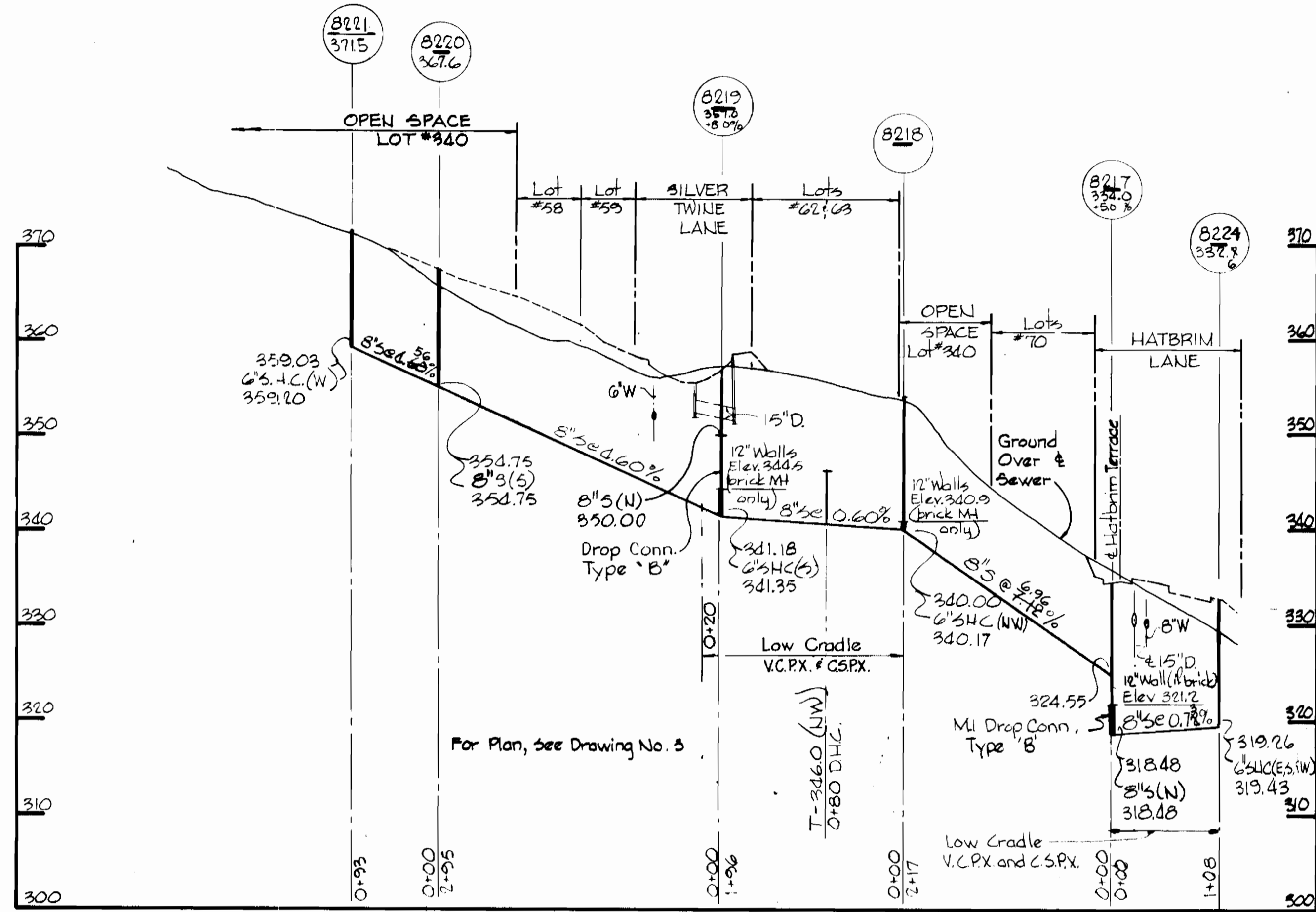
**DEPARTMENT OF PUBLIC WORKS**  
 HOWARD COUNTY, MARYLAND  
*P. J. ...* 12-6-76  
 DIRECTOR OF PUBLIC WORKS - DATE

**CONTRACT NO. 2698 D W/S**

**PROFILES OF WATER AND SEWER MAINS**

**COLUMBIA VILLAGE OF KINGS CONTRIVANCE ELECTION DISTRICT GUILFORD NO. 6**

**DRAWING NO. 5 OF 6**  
**SCALE H: 1"=100' V: 1"=10'**



*Thomas M. Lind*  
 Village of Kings Contrivance  
 Section I Area 1  
 Part 1 of 4  
 Contract No. 2618 D-W45

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

DEPARTMENT OF PUBLIC WORKS  
 HOWARD COUNTY, MARYLAND  
*P. J. ...* 12-6-76  
 DIRECTOR OF PUBLIC WORKS - DATE

CONTRACT NO. 2698 D W45

PROFILES OF  
 WATER AND SEWER MAINS

COLUMBIA  
 VILLAGE OF KINGS CONTRIVANCE  
 ELECTION DISTRICT GUILFORD NO. 6

DRAWING NO. 6 OF 6  
 SCALE H: 1"=100'  
 V: 1"=10'