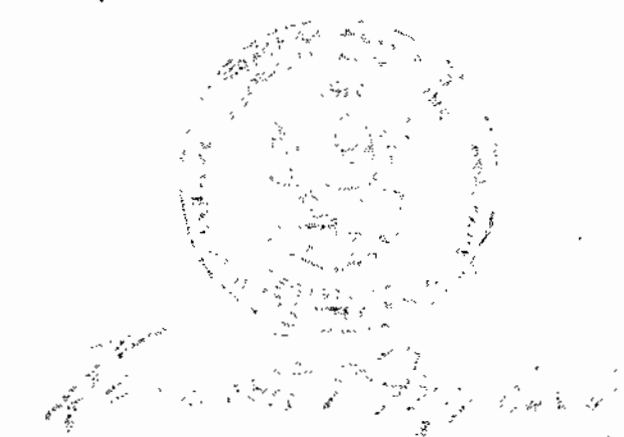


CONTRACT NO. 2700-D-W&S
VILLAGE OF KINGS CONTRIVANCE
HOWARD COUNTY, MARYLAND
DEPARTMENT OF PUBLIC WORKS

QUANTITIES	
ITEM	QUANTITY
8" Sewer	6,708 LF
12" Water	2,113 LF
8" Water	4,990 LF
Fire Hydrants	10

AS BUILT NOTES:
 SEWER = ACP class 2400
 WATER = ACP class 150
 CERTAIN-TEED PIPE



Village of Kings Contrivance
 Part 3 of 4
 Section 1 Area 1
 Contract No. 2700-D-W&S

WHITMAN, REQUARDT & ASSOCIATES ENGINEERS 1304 ST. PAUL ST. BALTIMORE, MARYLAND	DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND <i>T. J. Pappas</i> 12-7-76 DIRECTOR OF PUBLIC WORKS - DATE	CONTRACT NO. 2700-D-W&S <i>C. F. Albert</i> 12-7-76 CHIEF BUREAU OF ENGINEERING - DATE	LOCATION MAP OF WATER & SEWER MAIN EXTENSIONS	COLUMBIA VILLAGE OF KINGS CONTRIVANCE ELECTION DISTRICT GUILFORD NO. 6	DRAWING NO. <u>1</u> OF <u>8</u> SCALE 1" = 800'
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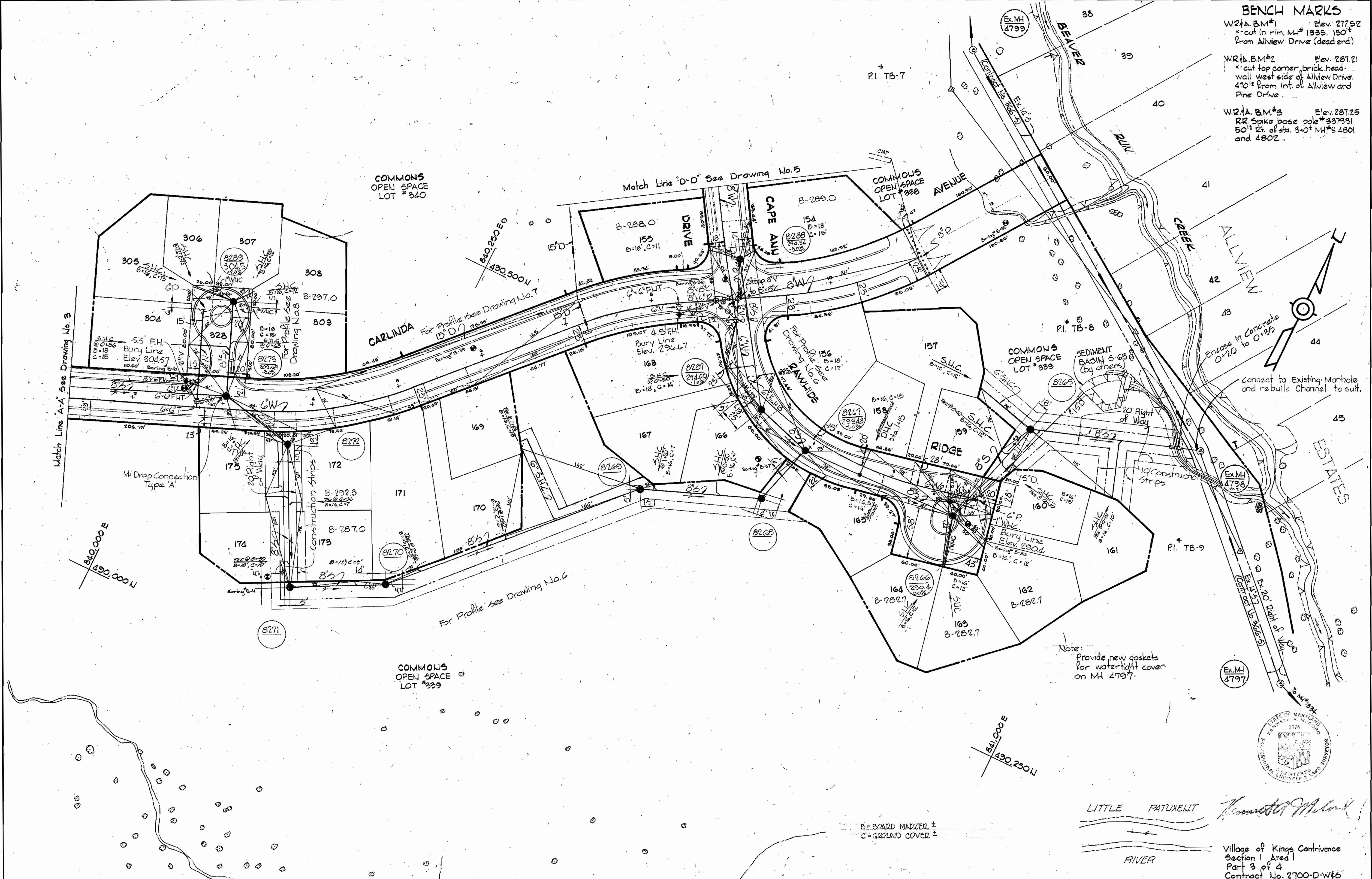
WS 700--W&S/1

BENCH MARKS

WR 1A, B.M.#1 Elev. 277.52
 x-cut in rim, M# 1935, 150"
 From Allview Drive (dead end)

WR 1A, B.M.#2 Elev. 281.21
 x-cut top corner brick head-
 wall west side of Allview Drive.
 470' from Int. of Allview and
 Pine Drive.

WR 1A, B.M.#3 Elev. 281.25
 R.R. Spike base pole #337931
 50' Et. of sta. 3+07 M#s 4801
 and 4802.



Note:
 Provide new gaskets
 for watertight cover
 on M# 4797.

B = BOARD WALKER ±
 C = GROUND COVER ±

LITTLE PATUXENT RIVER

Village of Kings Contrivance
 Section 1 Area 1
 Part 3 of 4
 Contract No. 2700-D-W45

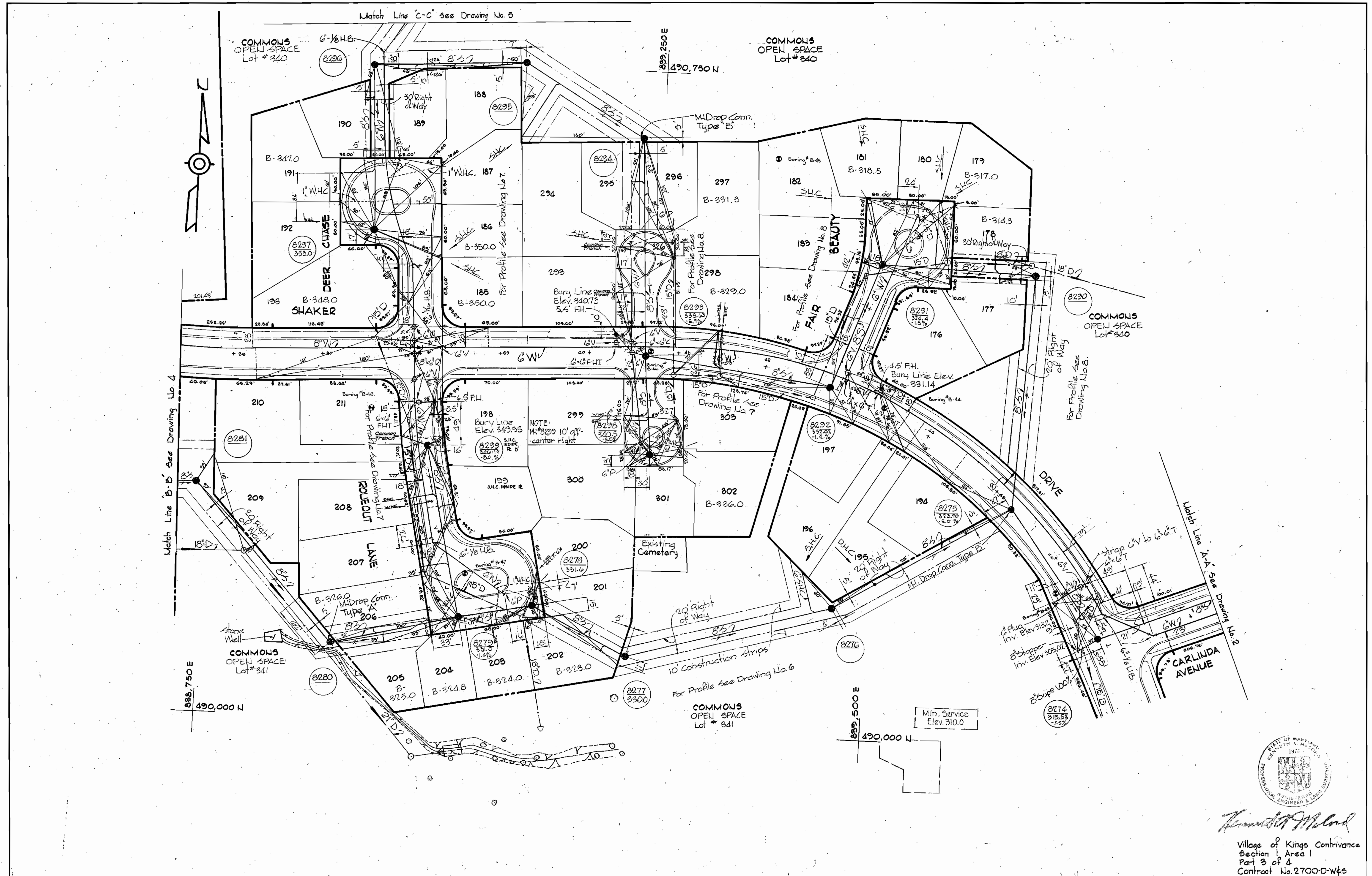
WHITMAN, REQUARDT & ASSOCIATES ENGINEERS 1304 ST. PAUL ST. BALTIMORE, MARYLAND	DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND <i>P. J. Regan</i> 12-7-76 DIRECTOR OF PUBLIC WORKS - DATE	CONTRACT NO. 2700-D-W45	PLAN OF WATER AND SEWER MAINS	COLUMBIA VILLAGE OF KINGS CONTRIVANCE ELECTION DISTRICT GUILFORD NO. 6	DRAWING NO. 2 OF 8 SCALE 1"=50'
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WS 700-D-W45/2

BRUNING 44510 EB392

WS 700-D-W&S/3

BRUNING 44510 18392



Kenneth J. McLeod
 Village of Kings Contrivance
 Section 1 Area 1
 Part 3 of 4
 Contract No. 2700-D-W&S

WHITMAN, REQUARDT & ASSOCIATES ENGINEERS 1304 ST. PAUL ST. BALTIMORE, MARYLAND	DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND <i>R.G. Reardon</i> 12-7-76 DIRECTOR OF PUBLIC WORKS - DATE	CONTRACT NO. 2700-D-W&S <i>W.O. Albert</i> 12-7-76 CHIEF BUREAU OF ENGINEERING - DATE	PLAN OF WATER AND SEWER MAINS	COLUMBIA VILLAGE OF KINGS CONTRIVANCE ELECTION DISTRICT GUILFORD NO. 6	DRAWING NO. 3 OF 8 SCALE 1"=50' 20-M
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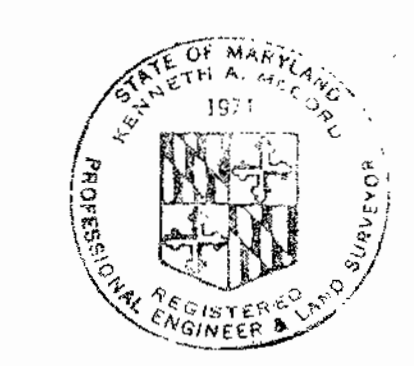
W.O. 6920-2

AS BUILT - JUNE, 1977 November 23, 1976

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 5-15 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 drawings.
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 manhole walls.
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 water-tight frames and covers.
19. All sewer mains shall be CSPX, VCPX, 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 - 234-5691.
 Underground Electric - 559-0100.
 Underground Gas - 727-9976.
 Chesapeake and Potomac Telephone Company - 727-9976.

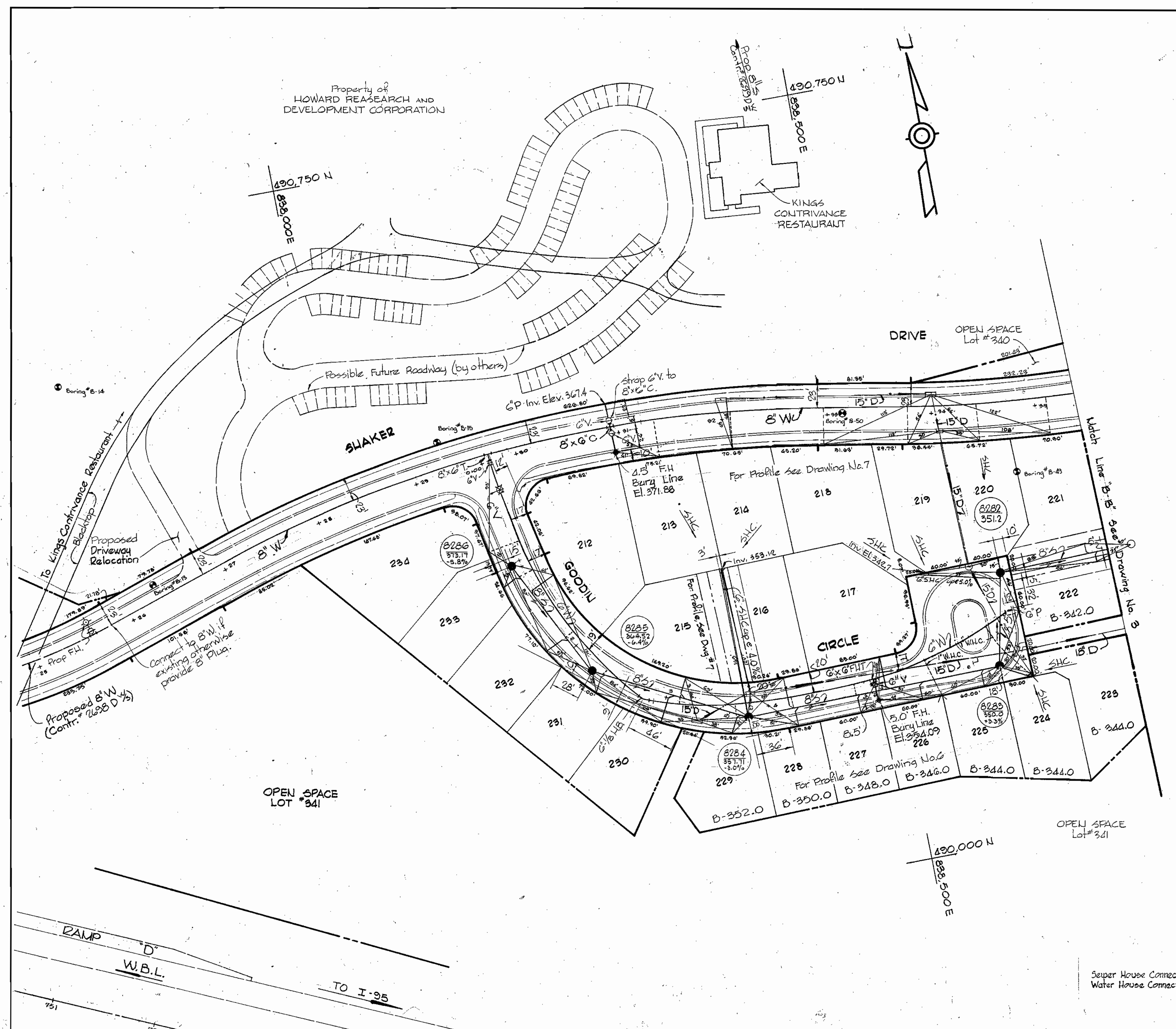
Note:
 Auger Borings were made by the Chesapeake Drilling Company for Purdum & Jeschke in September, 1973. Complete Logs are available at the Howard County Department of Public Works.



Kenneth A. McLeod

Village of Kings Contrivance
 Section 1 Area
 Part 3 of 4
 Contract No. 2700-D-W#5

Sewer House Connections have ± 16' Marker Boards
 Water House Connections have ± 8' Marker Boards.

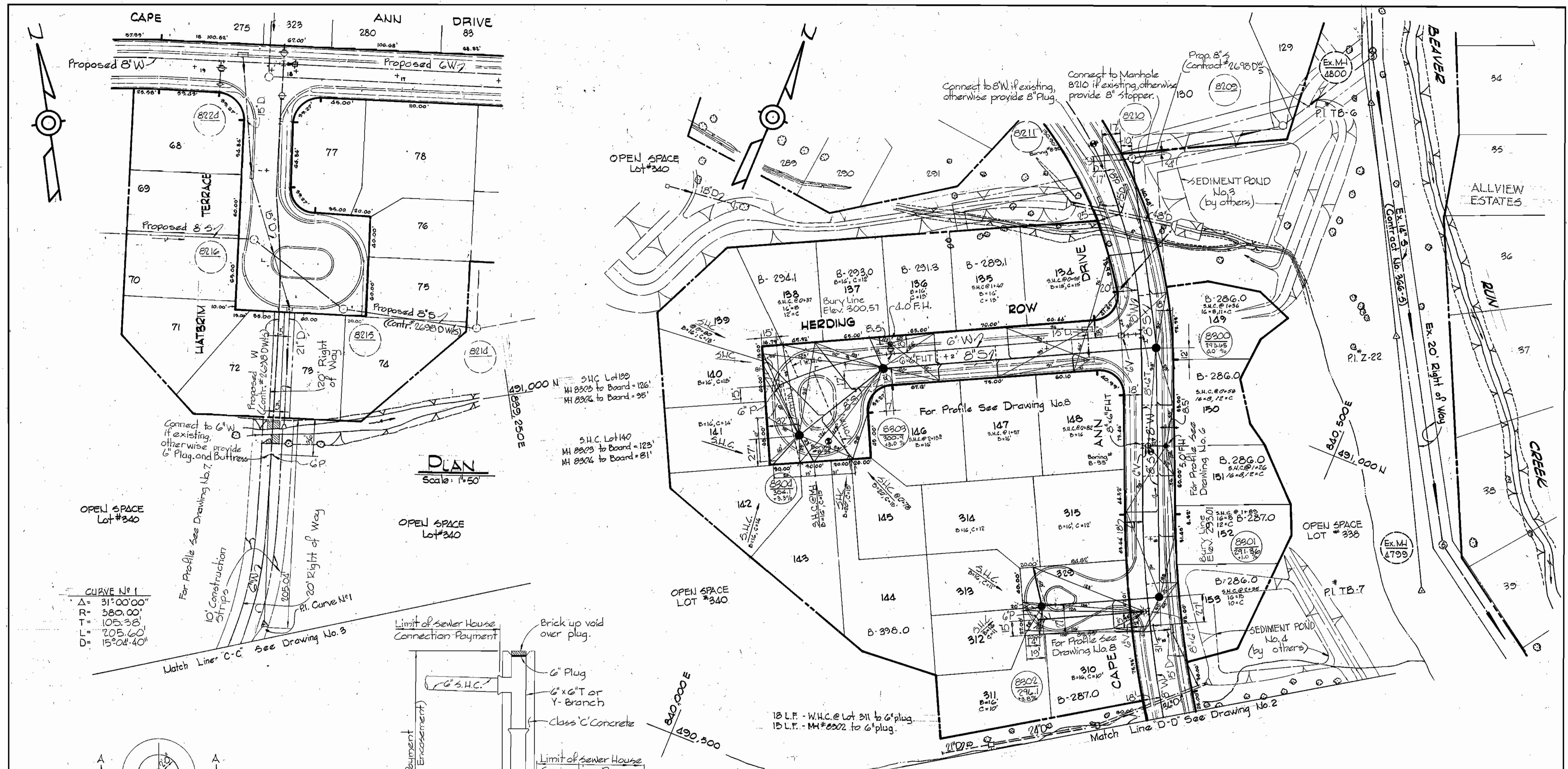


WHITMAN, REQUARDT & ASSOCIATES ENGINEERS 1304 ST. PAUL ST. BALTIMORE, MARYLAND	DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND 12-7-76 DIRECTOR OF PUBLIC WORKS - DATE	CONTRACT NO. 2700-D-W#5	PLAN OF WATER AND SEWER MAINS	COLUMBIA VILLAGE OF KINGS CONTRIVANCE ELECTION DISTRICT GUILFORD NO. 6	DRAWING NO. 4 OF 8 SCALE 1" = 50' 20-M, 20-L
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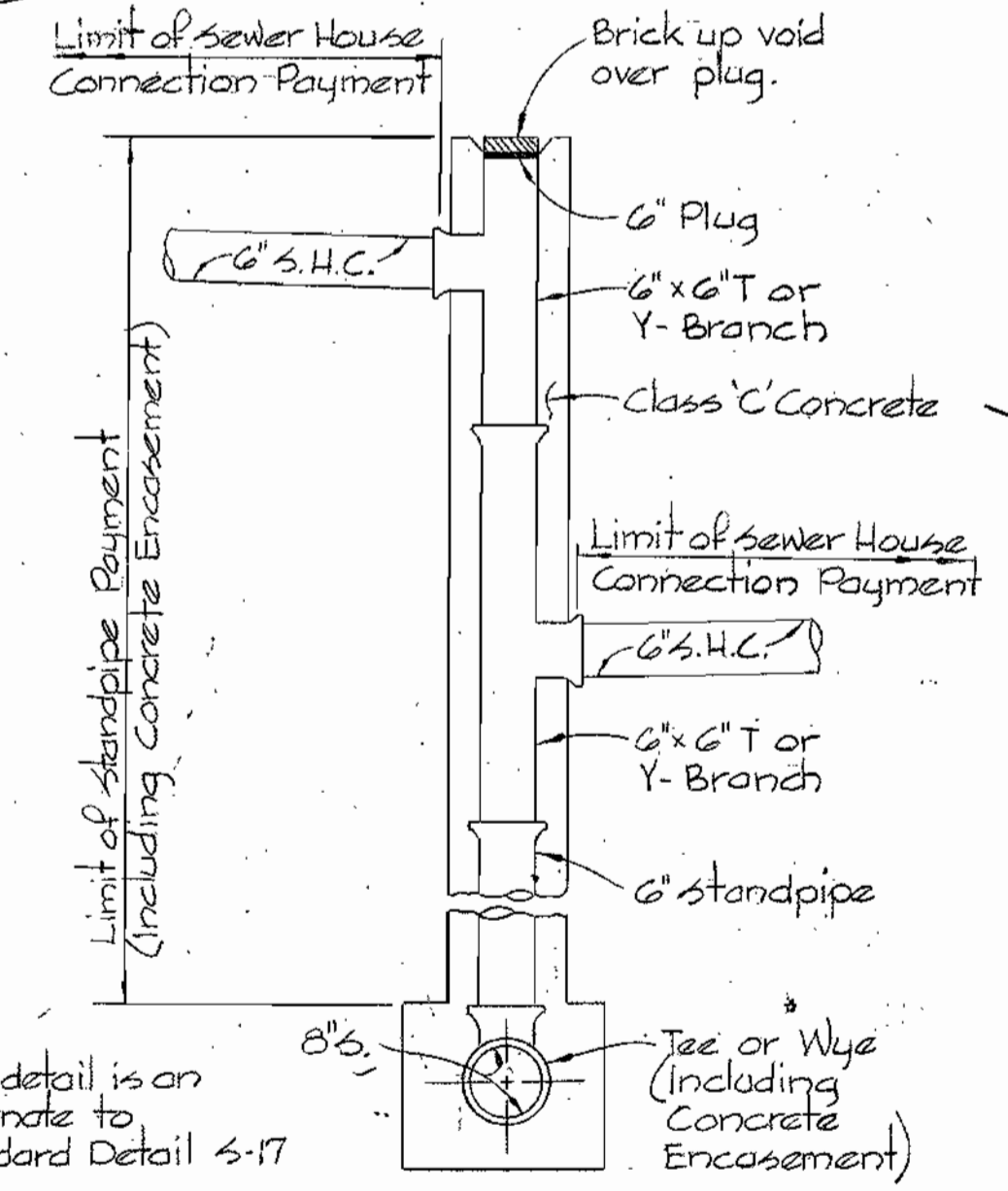
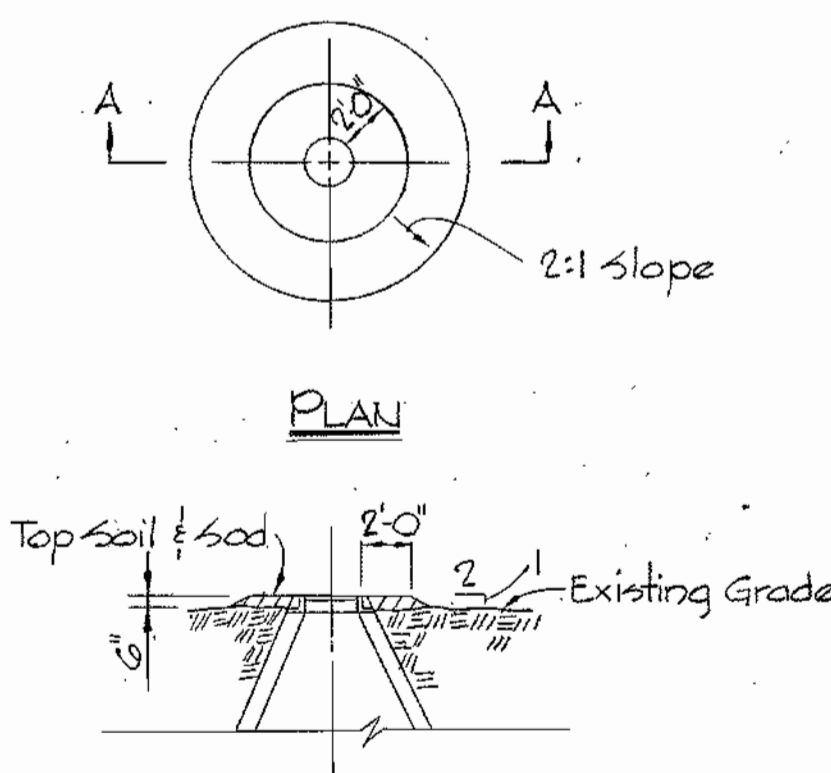
W.O. 6920-2

As Built June 77 November 23, 1976

WS 700-D-W#5/4



CURVE NO. 1
 $\Delta = 31^{\circ}00'00''$
 $R = 380.00'$
 $T = 105.38'$
 $L = 205.60'$
 $D = 15^{\circ}04'40''$



NOTE
 This detail is an alternate to standard Detail S-17

FILL AT MANHOLE NO'S
 8265, 8268, 8269, 8270, 8271, 8276, 8280, 8281, 8290, 8294, 8295, 8296
 Scale: 1"=50'

DETAIL OF DOUBLE DROP HOUSE CONNECTION
 Scale: 1/2"=1'-0"

WHITMAN, REQUARDT & ASSOCIATES ENGINEERS 1304 ST. PAUL ST. BALTIMORE, MARYLAND	DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND <i>P. J. Repp</i> 12-7-76 DIRECTOR OF PUBLIC WORKS - DATE	CONTRACT NO. 2700-D-WBS <i>W. O. Filbert</i> 12-7-76 CHIEF-BUREAU OF ENGINEERING - DATE	PLAN AND DETAILS OF WATER AND SEWER MAINS	COLUMBIA VILLAGE OF KINGS CONTRIVANCE ELECTION DISTRICT GUILFORD NO. 6	DRAWING NO. 5 OF 8 SCALE AS SHOWN November 23, 1976 As Built - JUNE, 1977
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Kenneth A. McCord

Village of Kings Contrivance
 Section 1 Area 1
 Part 3 of 4
 Contract No. 2700-D-WBS

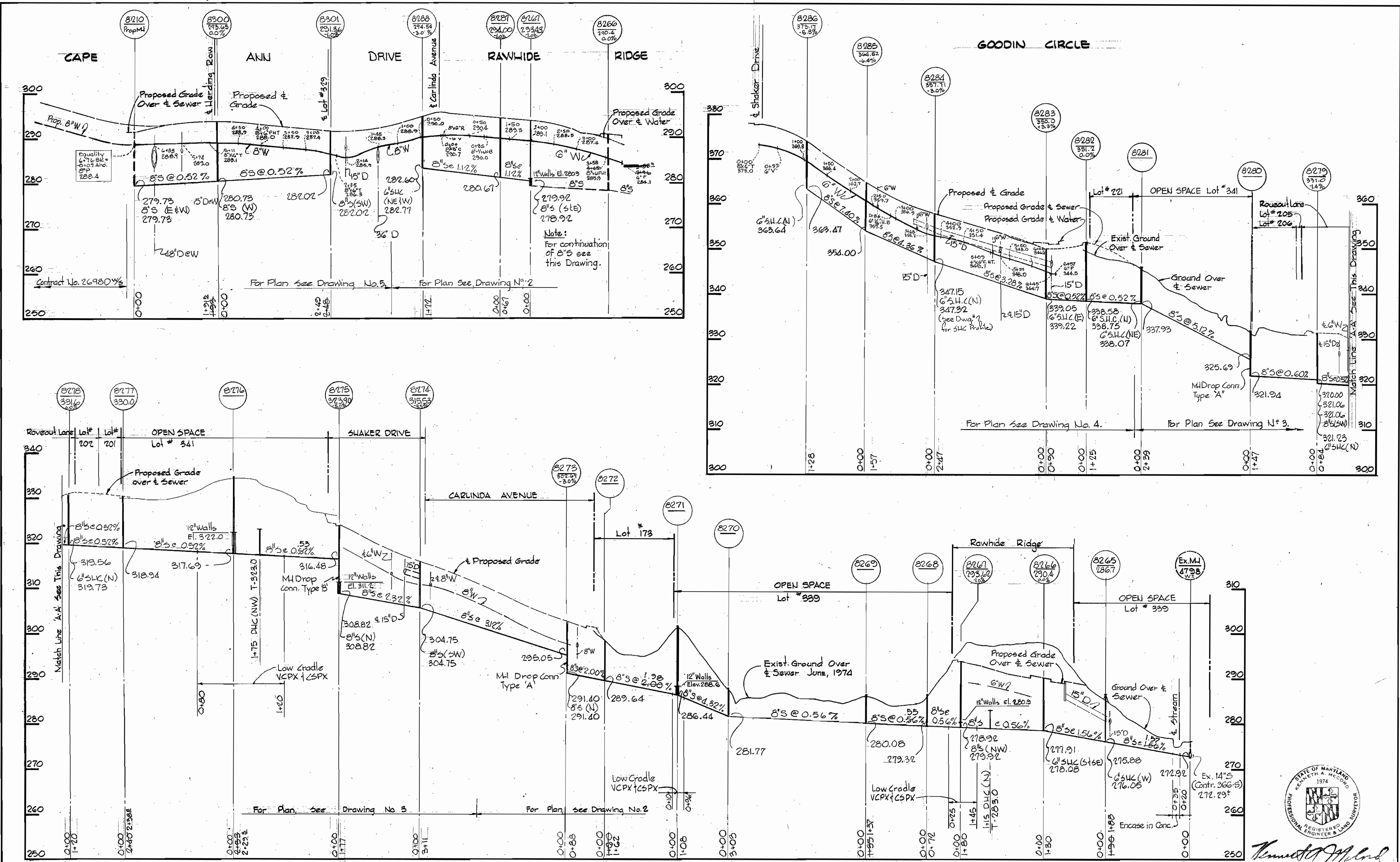
WS 700-D-WBS/5

BRUNING 44-510 1839Z

W.O. 6920-2

WS 700-D-W&S/6

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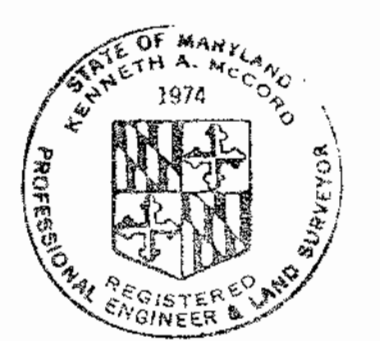
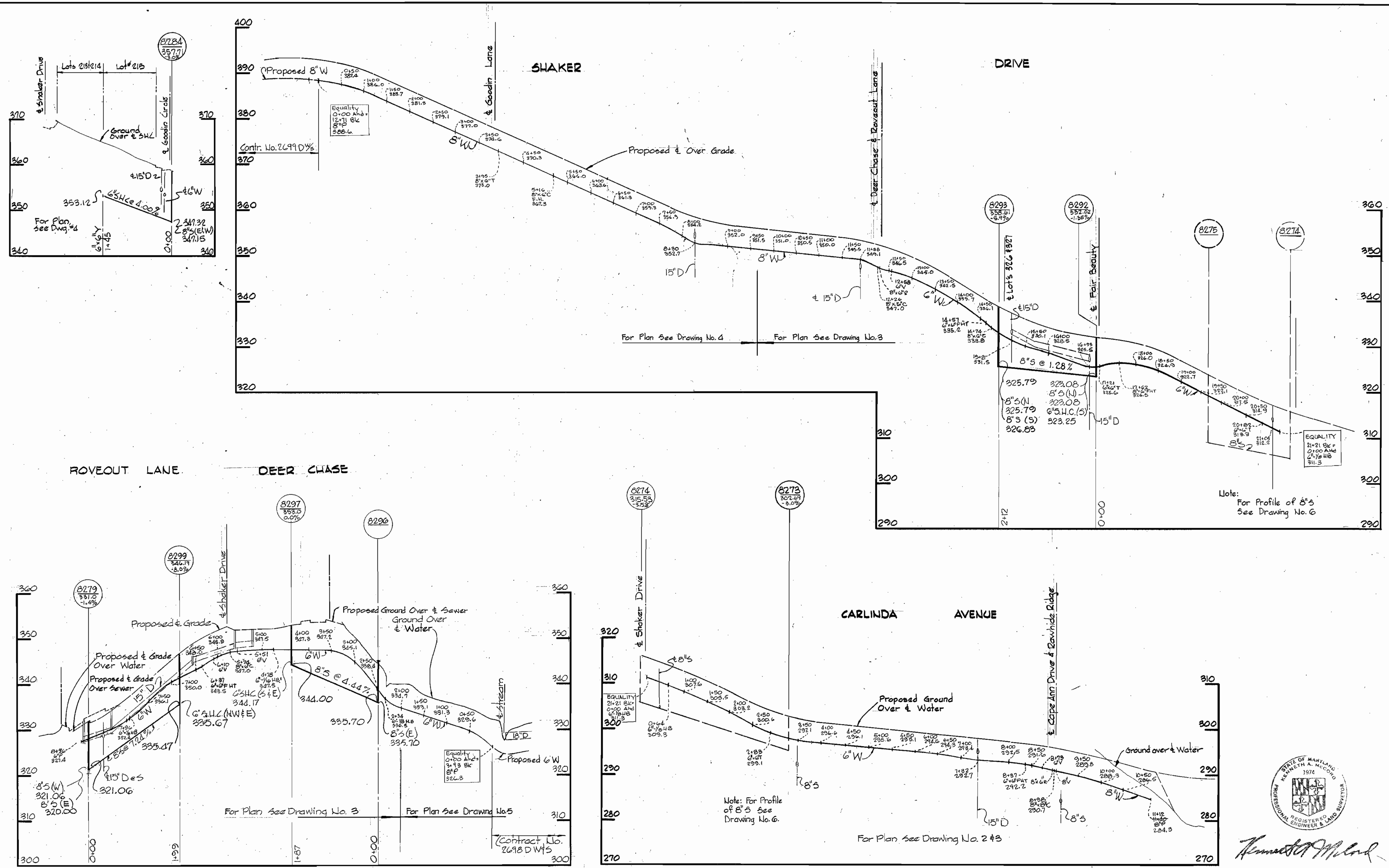


Kenneth A. McLeod
 Village of Kings Contrivance
 Section 1, Area 1
 Part 3 of 4
 Contract No. 2700-D-W&S

WHITMAN, REQUARDT & ASSOCIATES ENGINEERS 1304 ST. PAUL ST. BALTIMORE, MARYLAND	DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND <i>P. J. Repp</i> 12-7-76 DIRECTOR OF PUBLIC WORKS - DATE	CONTRACT NO. 2700-D-W&S <i>W. O. Libout</i> 12-7-76 CHIEF-BUREAU OF ENGINEERING - DATE	PROFILE OF WATER AND SEWER MAINS	COLUMBIA VILLAGE OF KINGS CONTRIVANCE ELECTION DISTRICT GUILFORD NO. 6	DRAWING NO. 6 OF 8 SCALE H=1"=100' V=1"=10'
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W. O. 6920-2

November 23, 1976



Kenneth A. McLeod

Village of Kings Contrivance
 Section 1 Area 1
 Part 3 of 4
 Contract No. 2700-D-W4S

WHITMAN, REQUARDT & ASSOCIATES ENGINEERS 1304 ST. PAUL ST. BALTIMORE, MARYLAND	DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND <i>P. J. Ryan Jr. 12-7-76</i> DIRECTOR OF PUBLIC WORKS - DATE <i>W. O. Fallick 12-7-76</i> CHIEF-BUREAU OF ENGINEERING - DATE	CONTRACT NO. 2700-D-W4S	PROFILE OF WATER AND SEWER MAINS	COLUMBIA VILLAGE OF KINGS CONTRIVANCE ELECTION DISTRICT GUILFORD NO. 6	DRAWING NO. 7 OF 8 SCALE AS SHOWN
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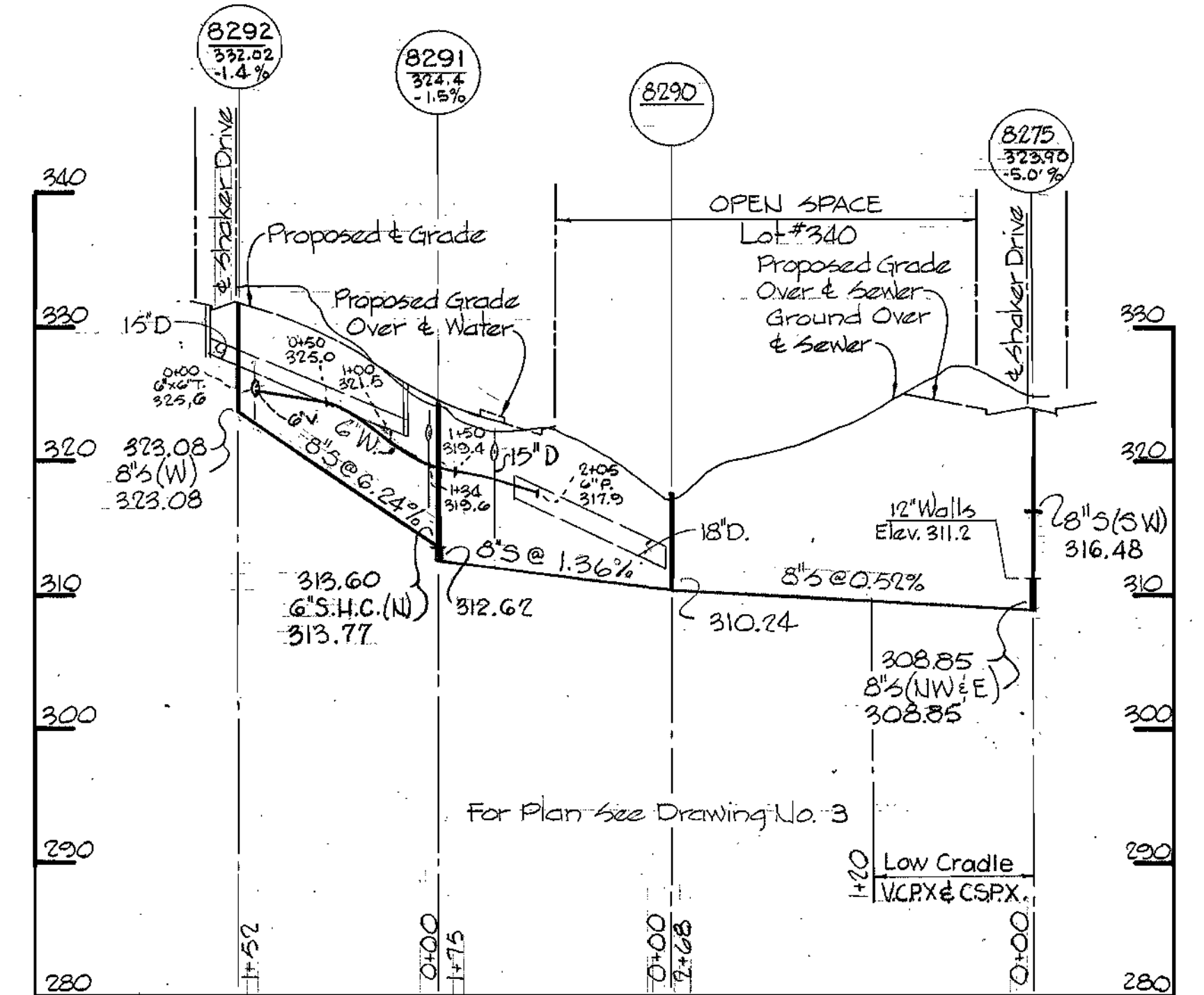
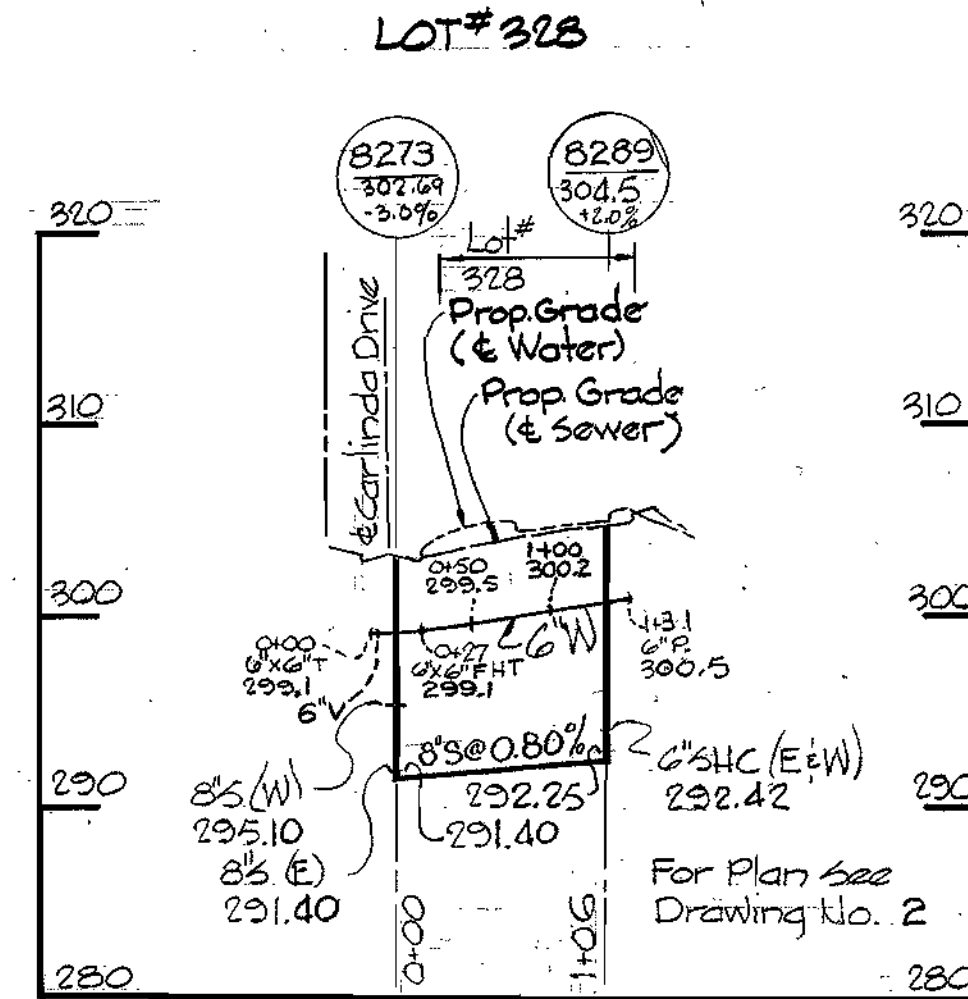
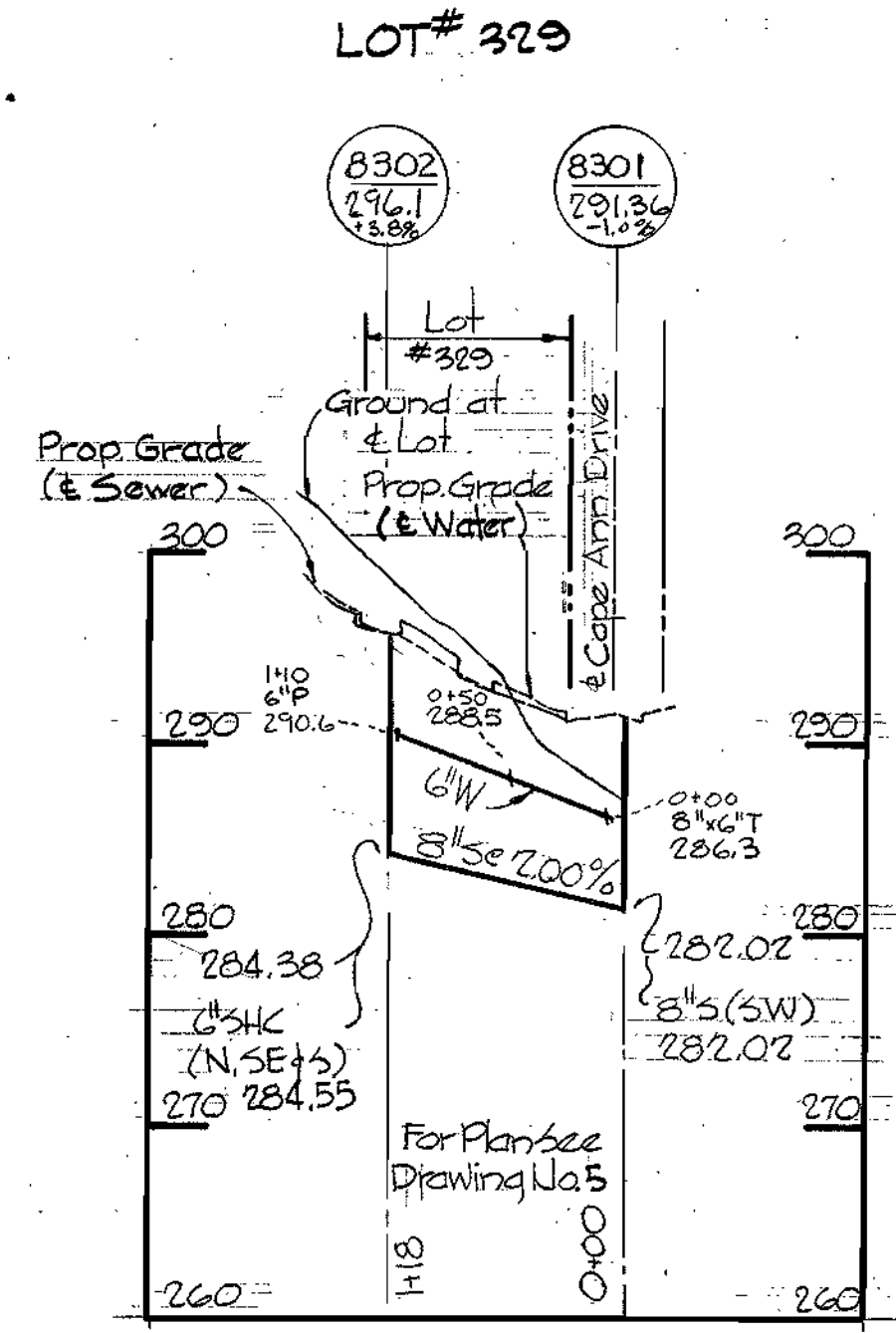
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BRINING 44 510 18392

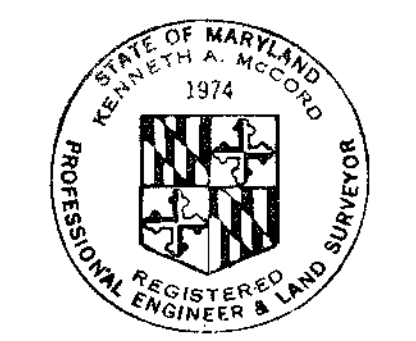
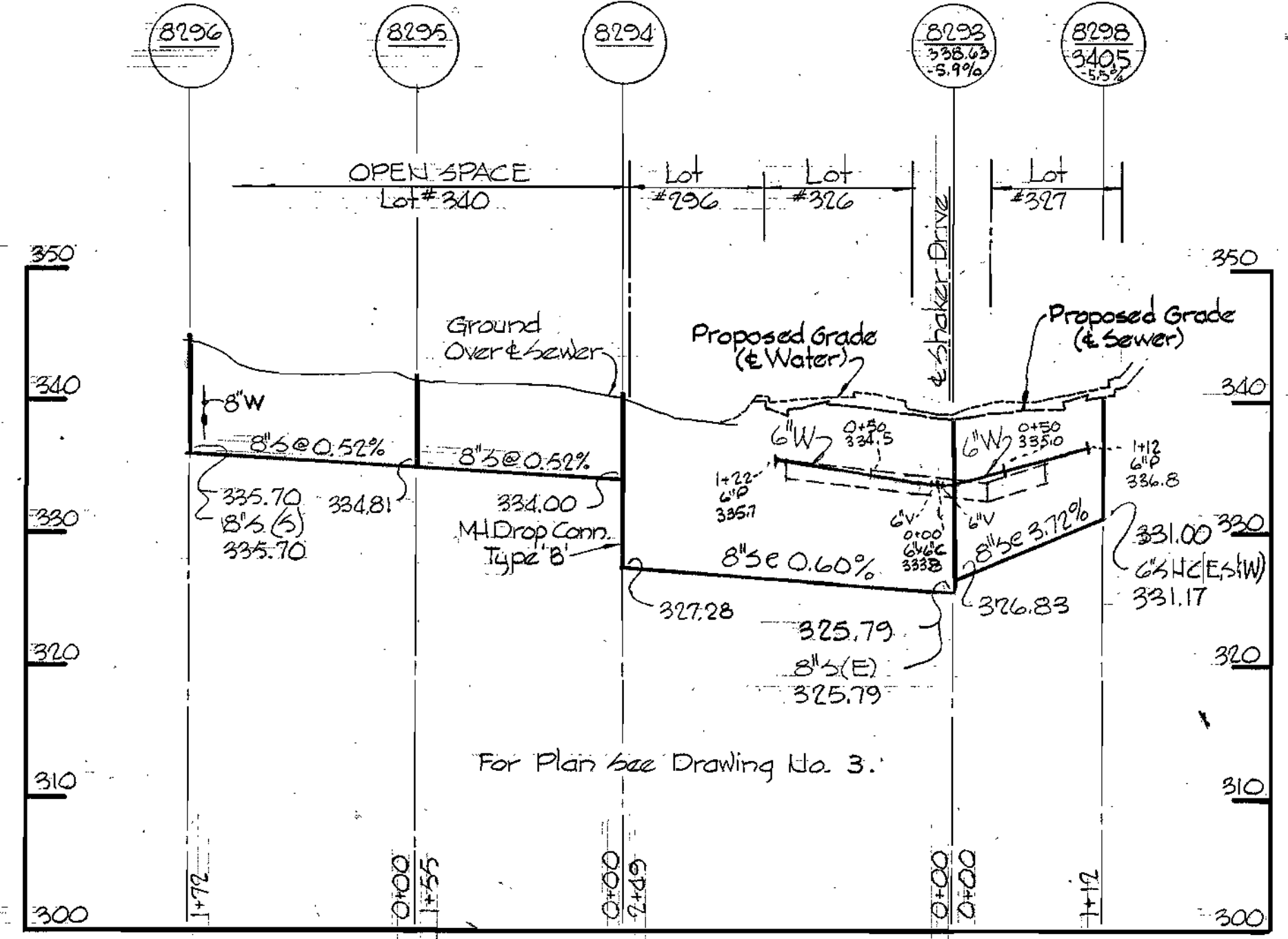
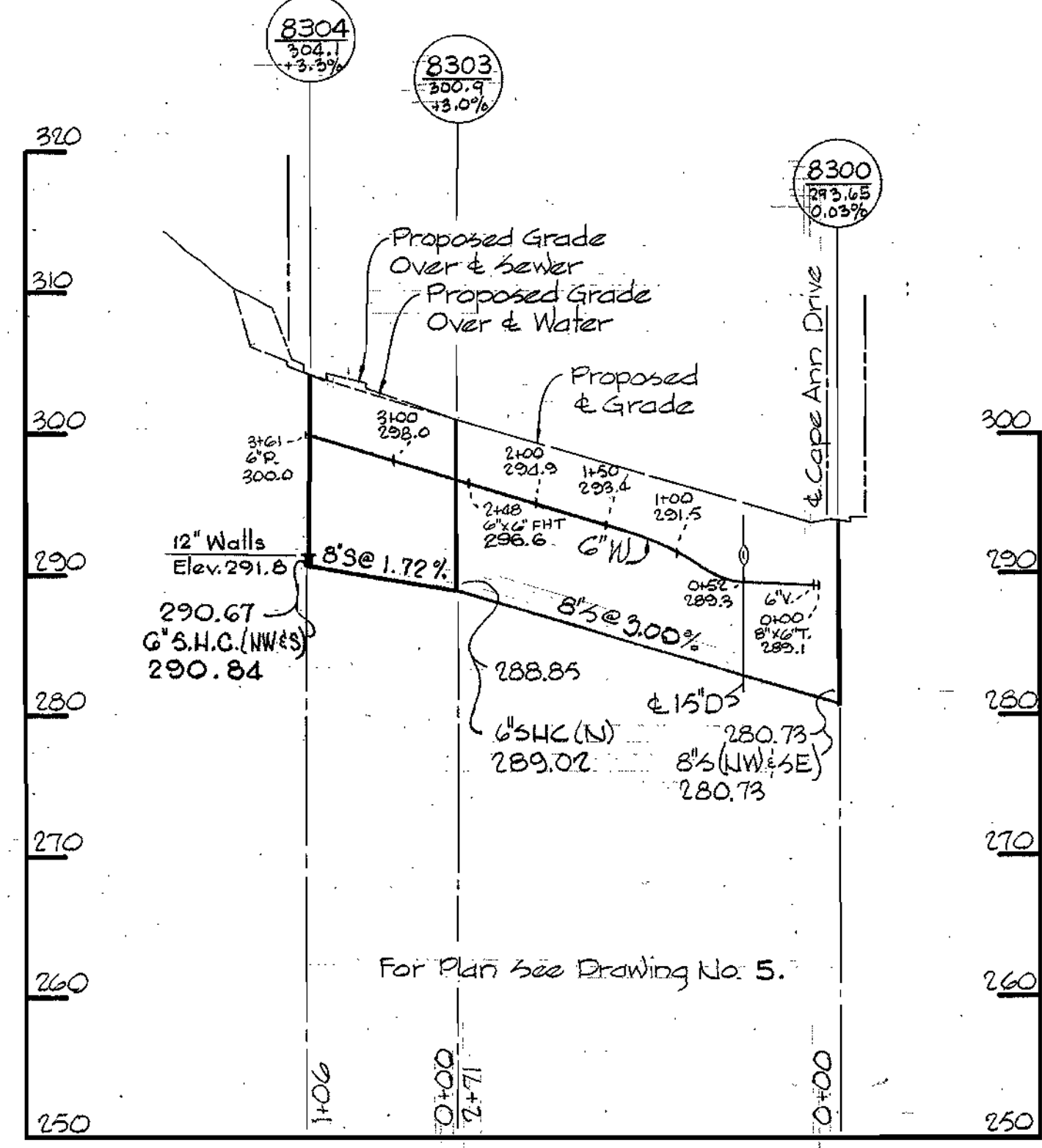
WS 700-D-W45/8

BRUNING 44510 18392

FAIR BEAUTY



HERDING ROW



Kenneth A. Milrod

Village of Kings Contrivance
Section 1 Area 1
Part 3 of 4
Contract No. 2700-D-W45

WHITMAN, REQUARDT & ASSOCIATES ENGINEERS 1304 ST. PAUL ST. BALTIMORE, MARYLAND	DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND <i>P. J. Bogan</i> 12-7-76 DIRECTOR OF PUBLIC WORKS - DATE	CONTRACT NO. 2700-D-W45 <i>W. O. Gilbert</i> 12-7-76 CHIEF BUREAU OF ENGINEERING - DATE	PROFILE OF WATER AND SEWER MAINS	COLUMBIA VILLAGE OF KINGS CONTRIVANCE ELECTION DISTRICT GUILFORD NO. 6	DRAWING NO. 8 OF 8 SCALE H-1"=100' V-1"=10'
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