

QUANTITIES	
ITEM	QUANTITY
8" SEWER PIPE	10,933 L.F.
8" WATER PIPE	3,185 "
6" " "	3,002 "
4" " "	532 "
3" " "	2,720 "

CONTRACT
WATER AND SEWER MAIN EXTENSIONS
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
ELLICOTT CITY, MARYLAND

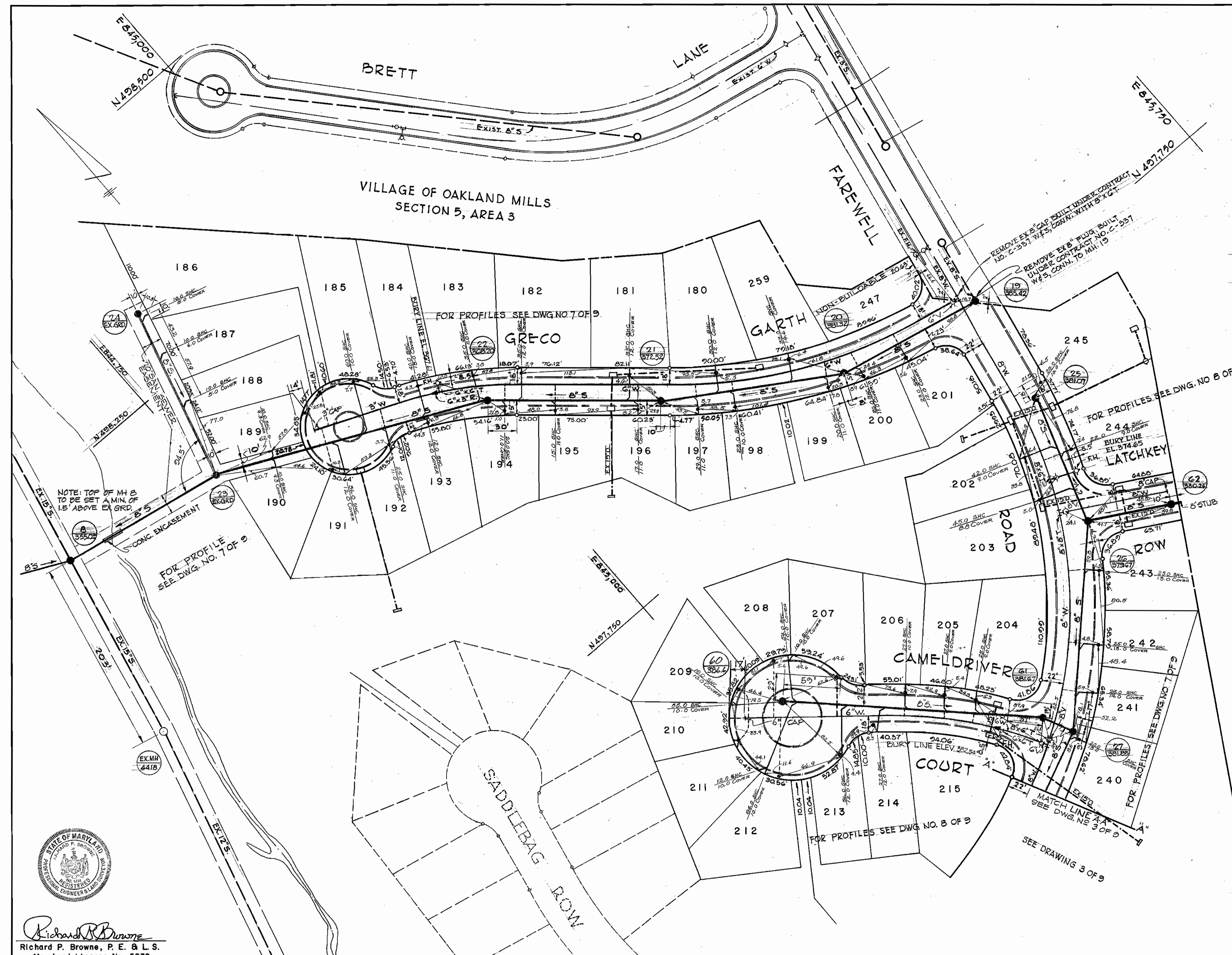


Richard P. Browne
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 Maryland License No. 5238

 RICHARD P. BROWNE ASSOCIATES ENGINEERS AMERICAN CITY BUILDING, COLUMBIA, MD.	HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS Date: <u>7-14-71</u> <i>W. O. Fallert</i> Chief Engineer	CONTRACT NO. <u>429-D-W&S</u>	LOCATION MAP OF WATER & SEWER MAIN EXTENSIONS	COLUMBIA VILLAGE OF OAKLAND MILLS SECTION 5 STEVENS FOREST AREA 6	DRAWING NO. <u>1</u> OF <u>9</u>	SCALE AS SHOWN	DES: T.P. DRW: J.B. CHK: T.P.
	AS BUILT				APRIL 13, 1972		

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'
6. ALL WATER MAINS TO BE C.I.P. OR A.C.P. AND HAVE A MINIMUM OF 3' COVER.
7. BLOCK ALL FITTINGS WITH CONCRETE, SEE STANDARDS BOUND IN SPECIFICATIONS.
8. FIRE HYDRANTS SHALL BE SET AT THE BURY LINE ELEVATIONS SHOWN ON THE DRAWINGS.
9. COST OF STRAPPING FIRE HYDRANTS AND VALVES TO TEE'S TO BE INCLUDED IN THE UNIT PRICE BID FOR FURNISHING AND LAYING OF WATER MAINS.
10. ALL FIRE HYDRANTS SHALL BE BUTTRESSED WITH CONCRETE.
11. SEWER MANHOLES SHALL BE 4'-0" INSIDE DIAMETER EXCEPT WHERE OTHERWISE NOTED.
12. THE CONTRACTOR SHALL PROVIDE A JOINT IN ALL SEWER MAINS WITHIN 2'-0" OF EXTERIOR MANHOLE WALLS.
13. ALL SEWER PIPE SHALL BE V.C.P.X., C.S.P.X., OR A.C.P. CLASS 2400 UNLESS OTHERWISE NOTED.
14. VALVES ON WATER MAINS TO BE STRAPPED TO TEE'S AS SHOWN IN HOWARD COUNTY STANDARD SPECIFICATIONS AND DETAILS W-6A OR W-6C.
15. ALL DATUM BASED ON MARYLAND STATE GRID SYSTEM.



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HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
 7-14-71 Date *W O Gilbert* Chief Engineer

CONTRACT NO. 429-D-WBS

PLAN OF
 WATER & SEWER MAINS

COLUMBIA
 VILLAGE OF OAKLAND MILLS
 SECTION 5 STEVENS FOREST AREA 6

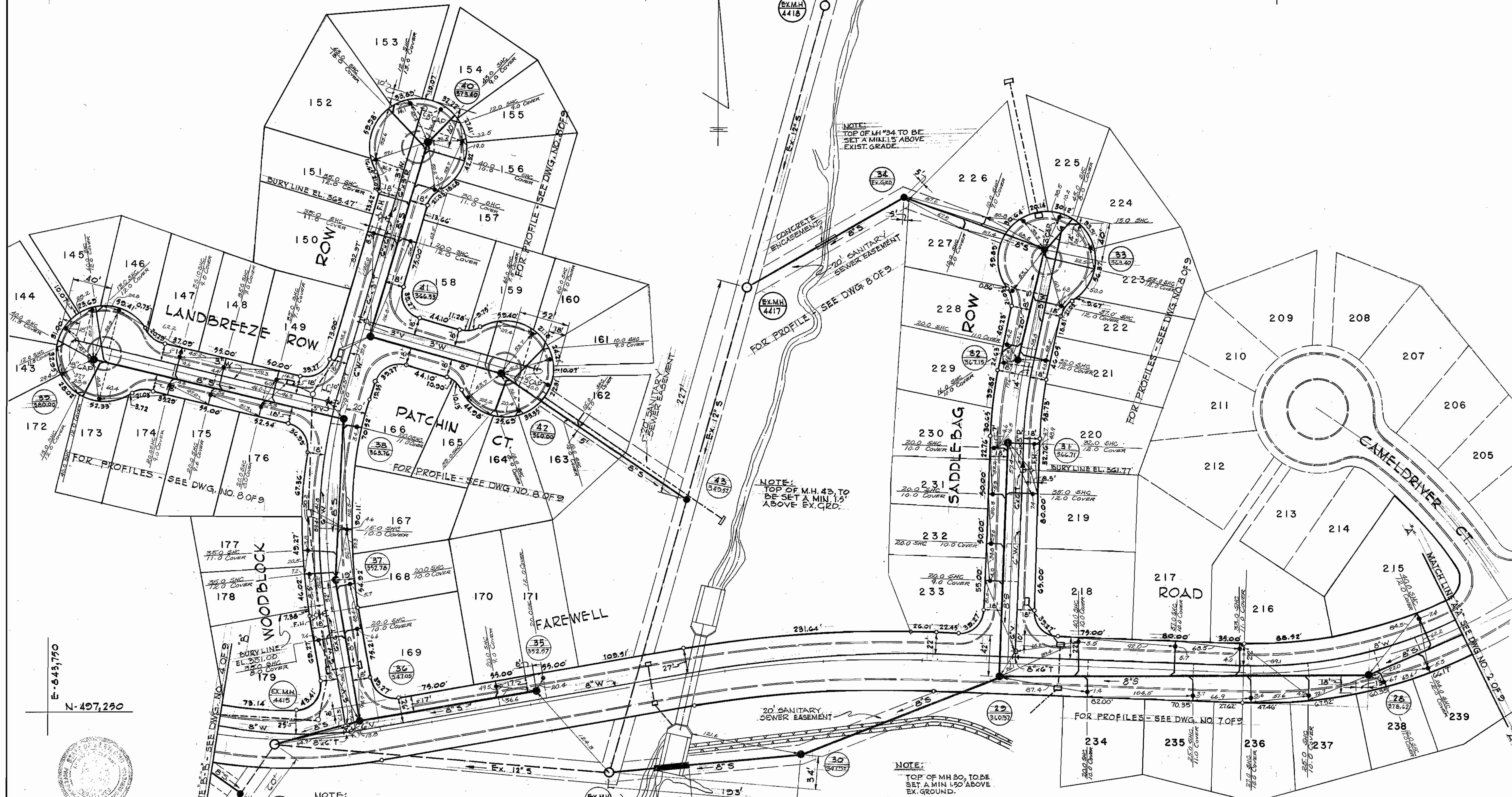
DRAWING NO. 2 OF 9	SCALE 1" = 50'	DESIGNED BY	CHKD. BY
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AS BUILT APRIL 13, 1972

WS/SPN 429 SM

E-643,750
N-498,000

E-643,000
N-498,000



NOTE:
TOP OF LH #34 TO BE
SET A MIN. 1.5' ABOVE
EXIST. GRADE.

NOTE:
TOP OF M.H. 43 TO
BE SET A MIN. 1.5'
ABOVE EX. GRD.

NOTE:
TOP OF M.H. 50, TO BE
SET A MIN. 1.5' ABOVE
EX. GROUND.

NOTE:
TOP OF M.H. 55, TO BE
SET A MIN. 1.5' ABOVE
EXIST. GRD.

FOR PLAN - SEE DWG. NO. 8 OF 9

MATCH LINE B.W. - SEE DWG. NO. 4 OF 9

MATCH LINE A.W. - SEE DWG. NO. 2 OF 9

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Chief Engineer

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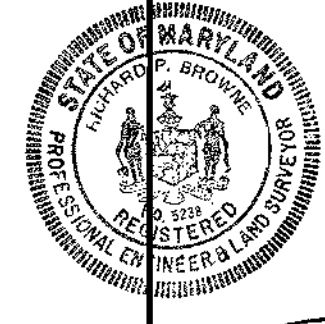
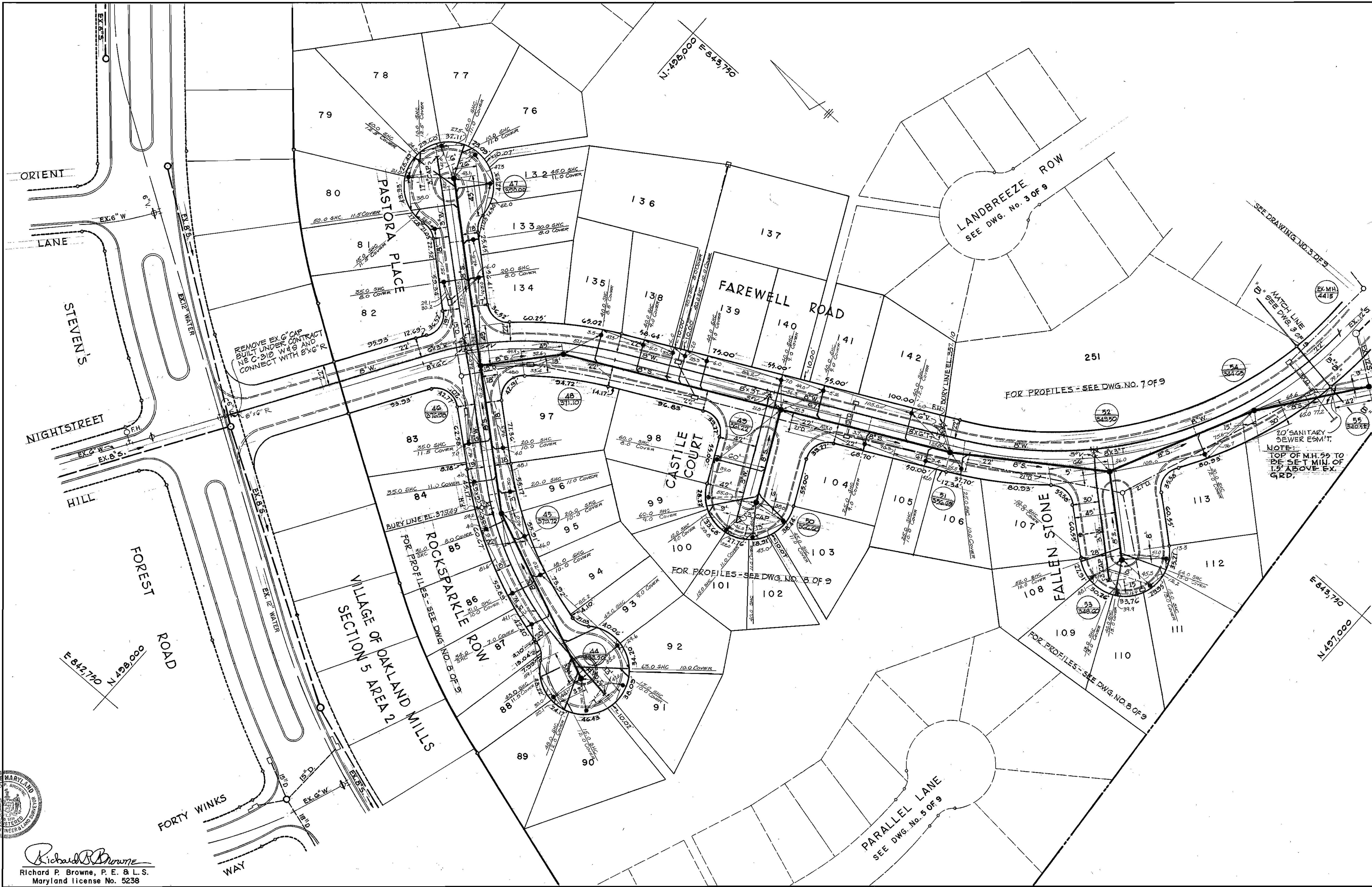
PLAN OF
WATER & SEWER MAINS

COLUMBIA
VILLAGE OF OAKLAND MILLS
SECTION 5 STEVENS FOREST AREA 6

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

AS BUILT
APRIL 13, 1972

WS 429 W&S/3



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 7-14-71 *W. O. Falbert*
 Date Chief Engineer

CONTRACT NO. 429-D-W8S

PLAN OF
 WATER & SEWER MAINS

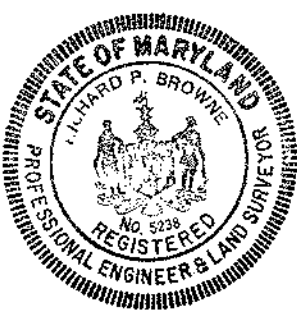
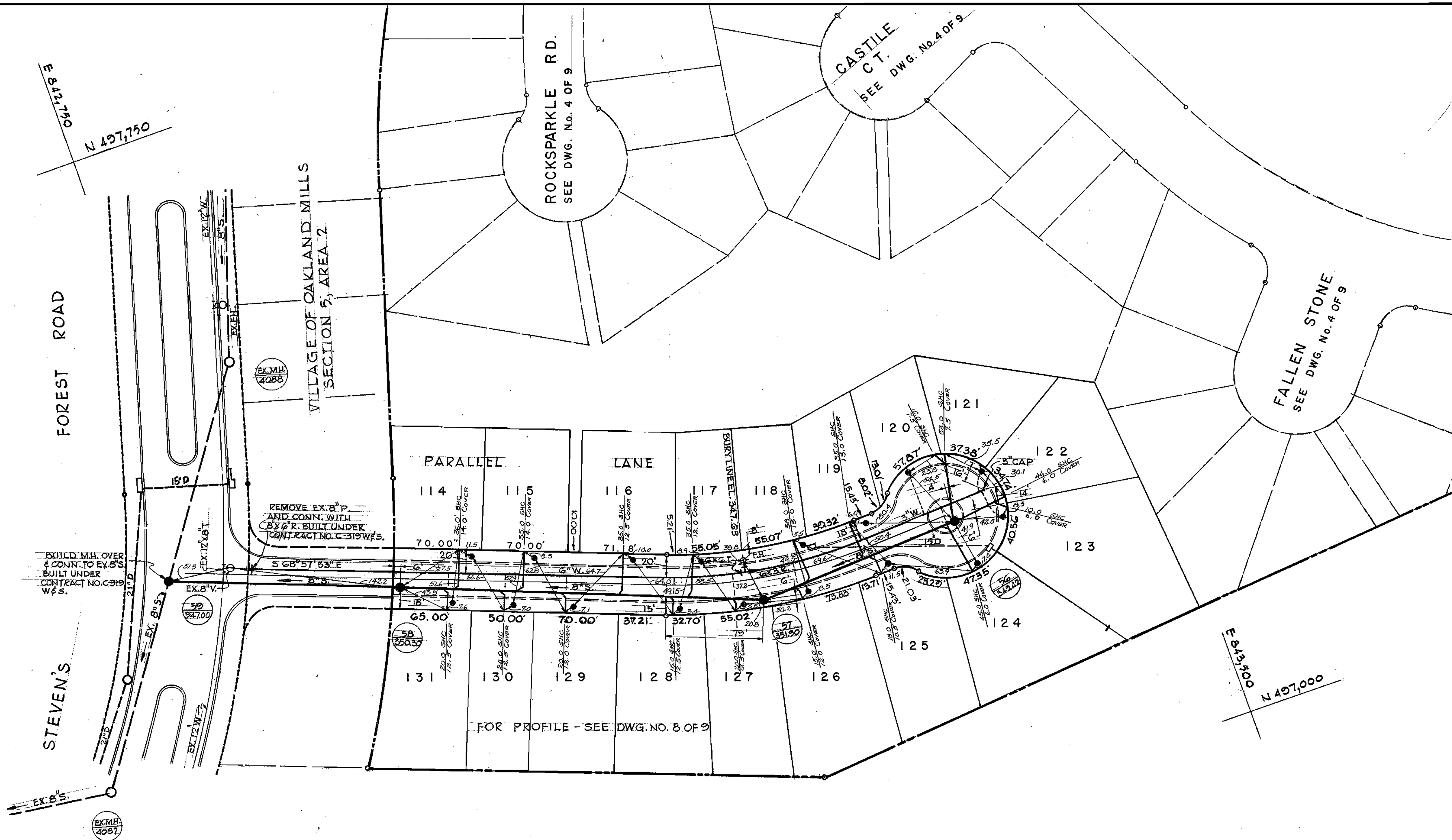
COLUMBIA
 VILLAGE OF OAKLAND MILLS
 SECTION 5 STEVENS FOREST AREA 6

DRAWING NO. 4 OF 9
 SCALE 1" = 50'

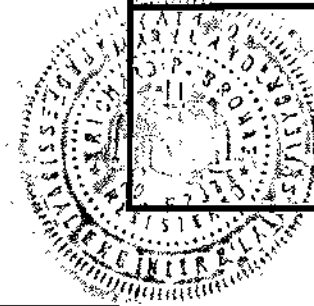
DES: T.P.
 DRW: J.P.
 CHK: T.P.

AS BUILT APRIL 13, 1972

WS 429 W&S/4



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 7-14-71 *W. O. Fallick*
 Date Chief Engineer

CONTRACT NO. 429-D-W8S

PLAN OF
 WATER & SEWER MAINS

COLUMBIA
 VILLAGE OF OAKLAND MILLS
 SECTION 5 STEVENS FOREST AREA 6

DRAWING
 NO. 5
 OF 9
 SCALE
 1" = 50'

DES: T.P.
 DRW: J.P.
 CHK: T.P.

AS BUILT APRIL 13, 1972

WS 429 W8S/5



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7-14-71 Date
W O Falber Chief Engineer

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PLAN OF
WATER & SEWER MAINS

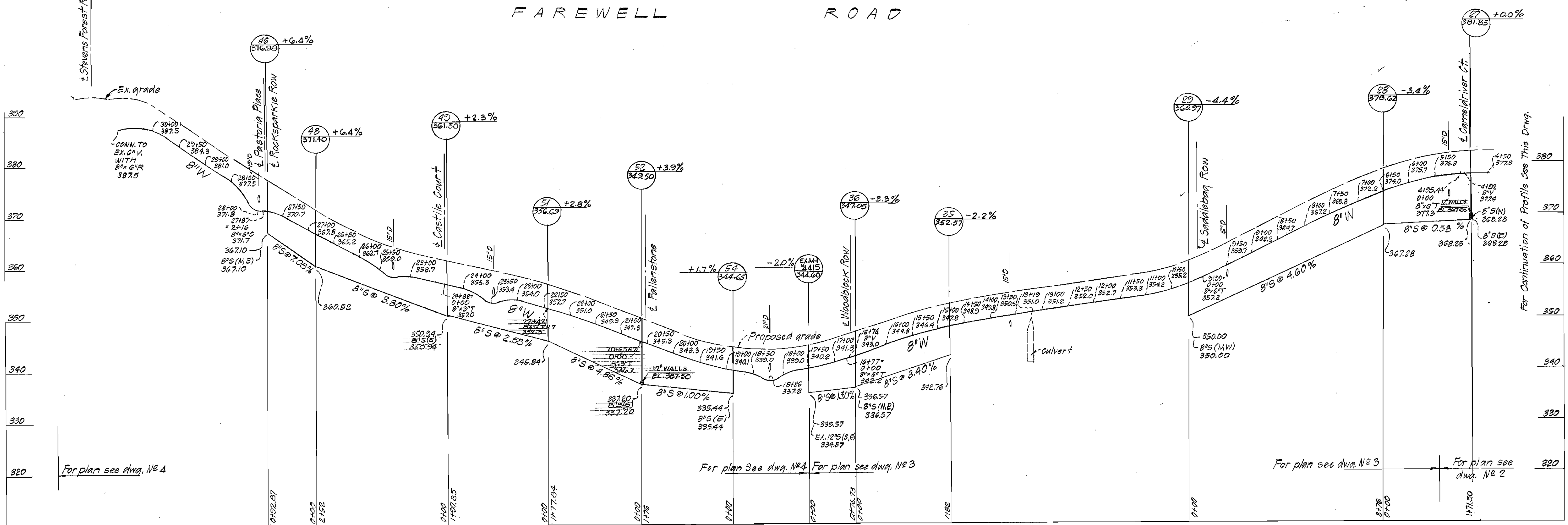
COLUMBIA
VILLAGE OF OAKLAND MILLS
SECTION 5 STEVENS FOREST AREA 6

DRAWING NO. 6 OF 9
SCALE 1" = 50'

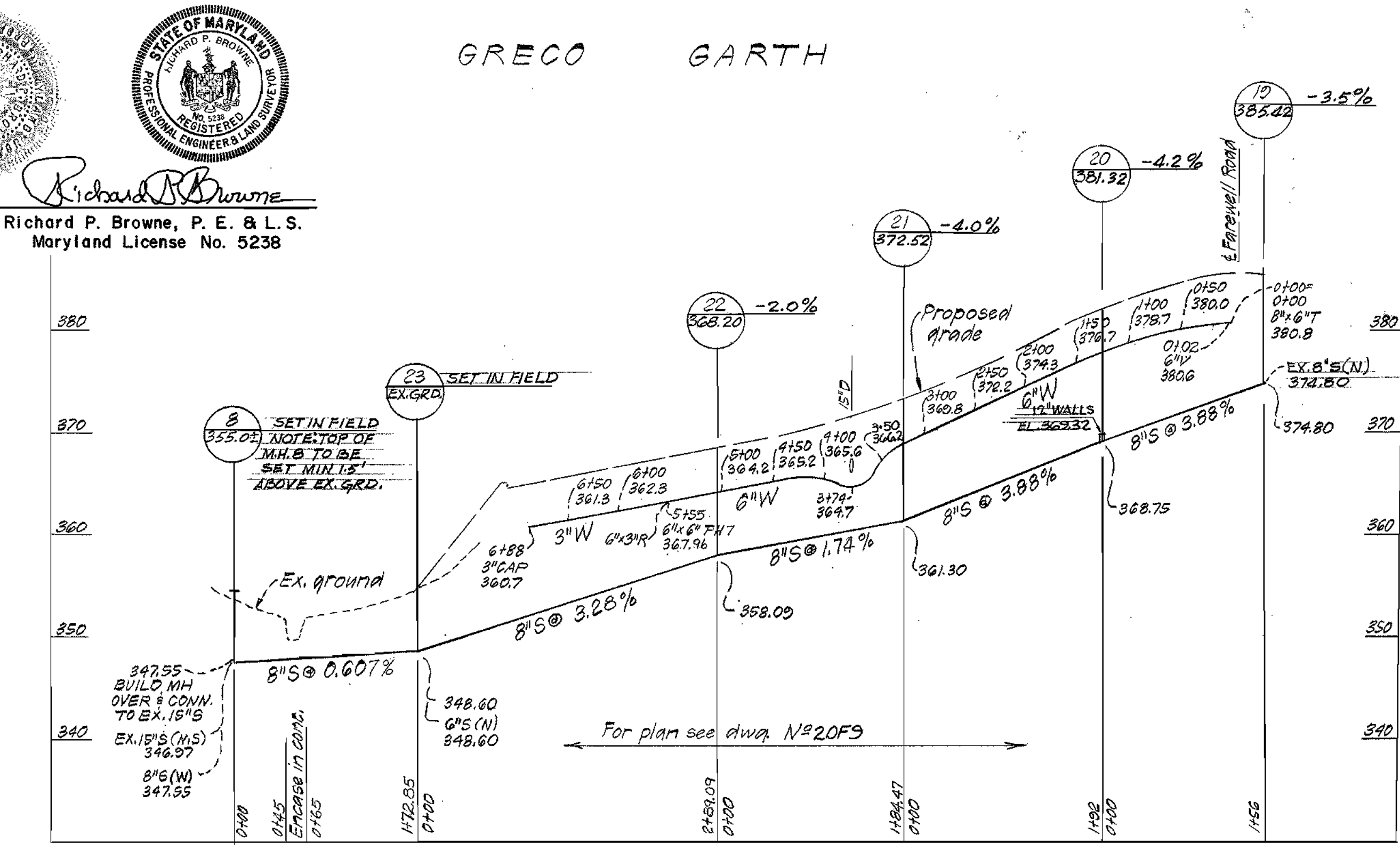
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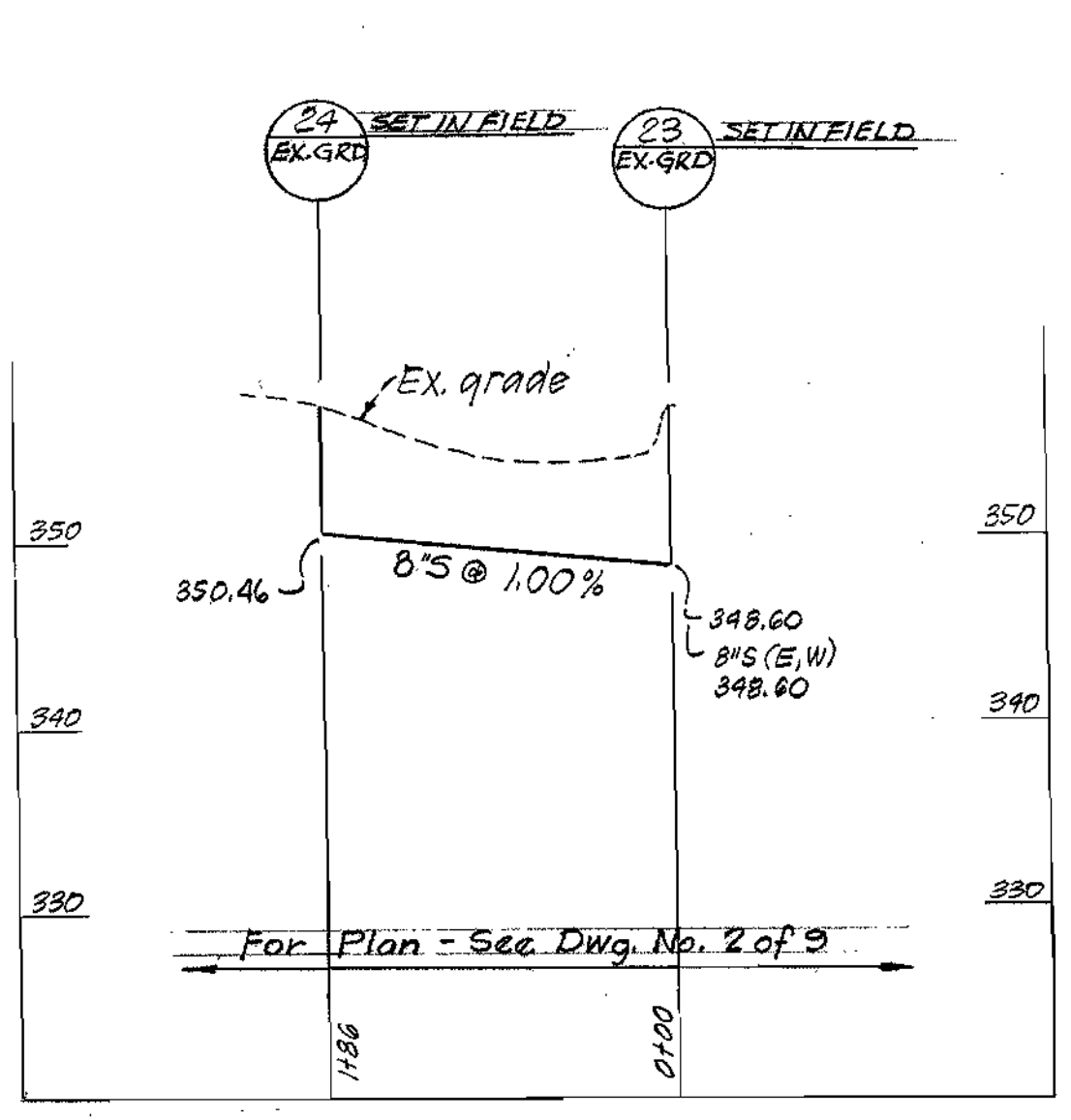
FAREWELL ROAD



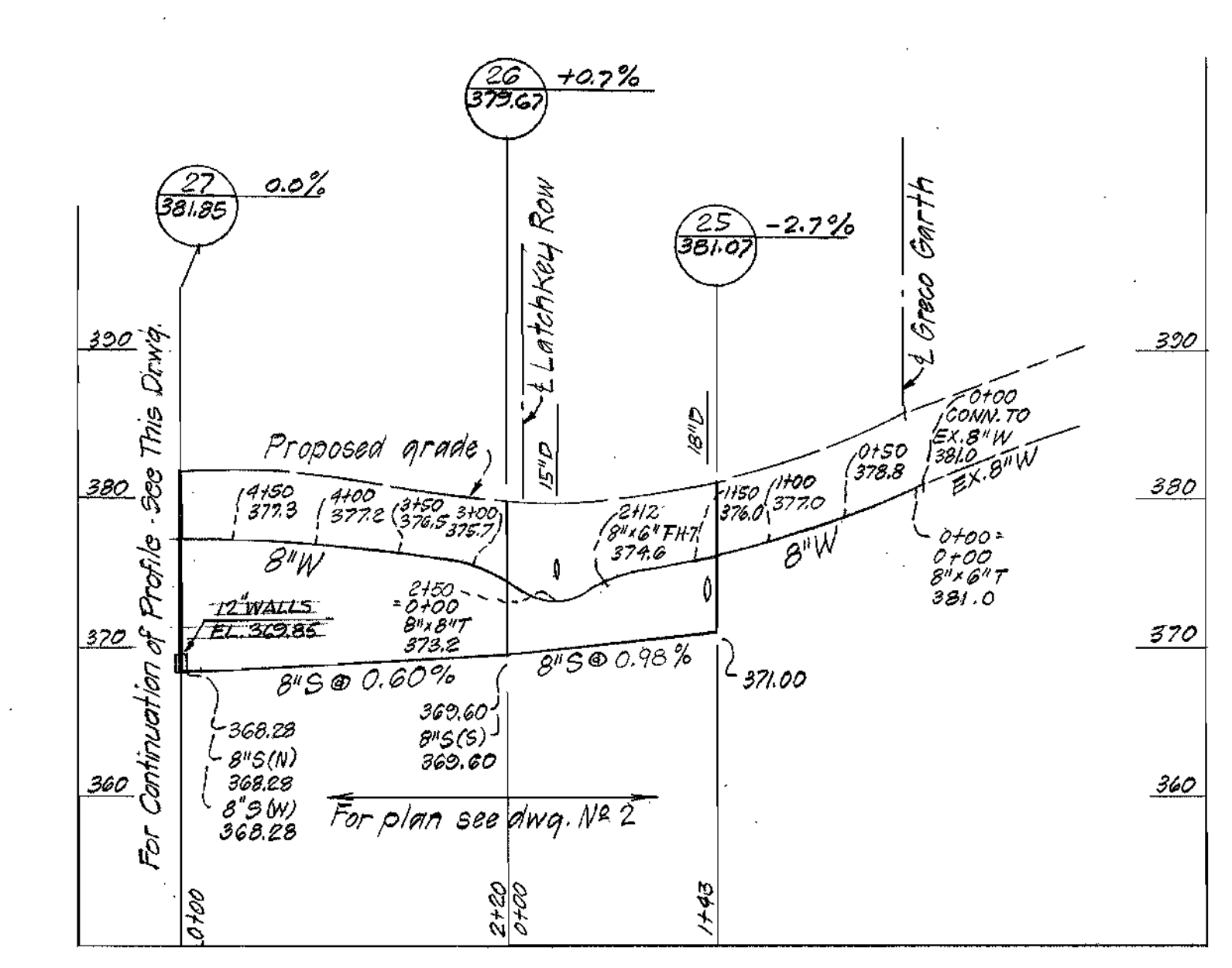
GRECO GARTH




ALONG 20' EASEMENT



FAREWELL ROAD




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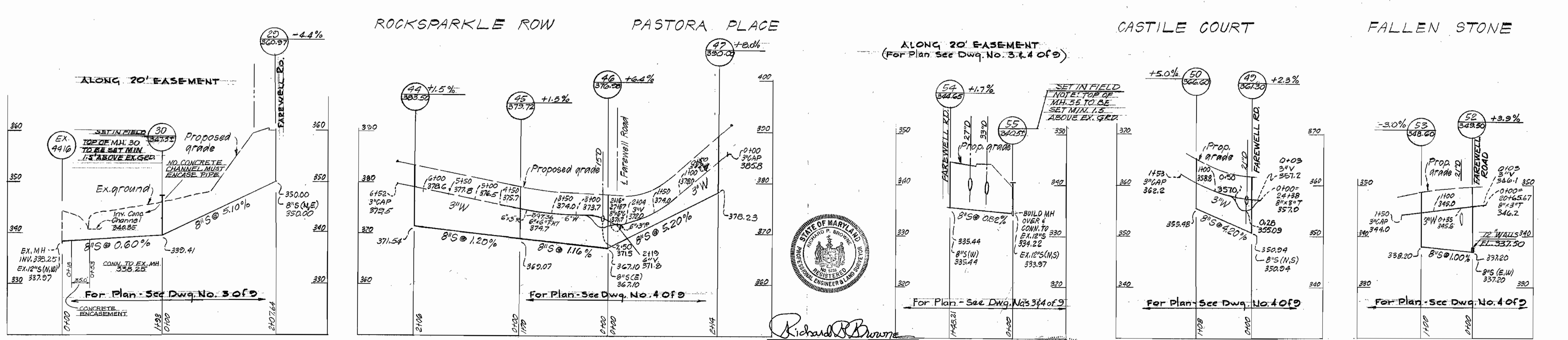
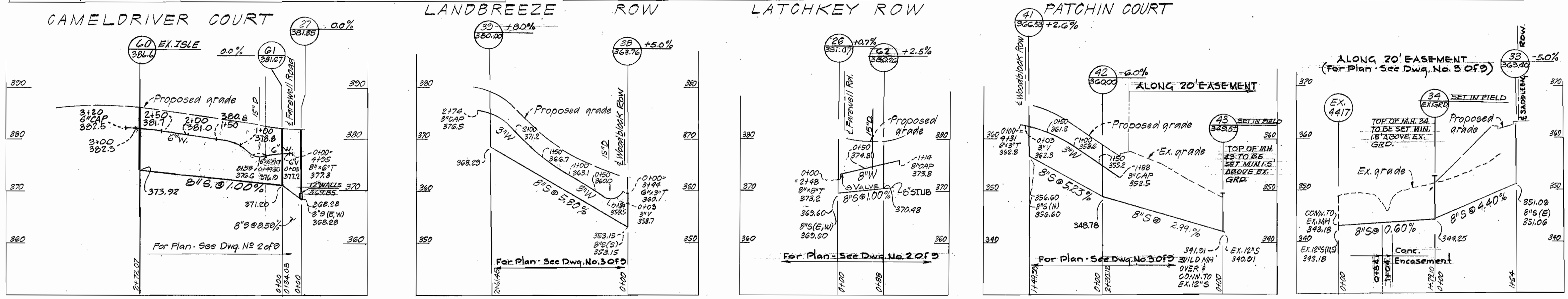
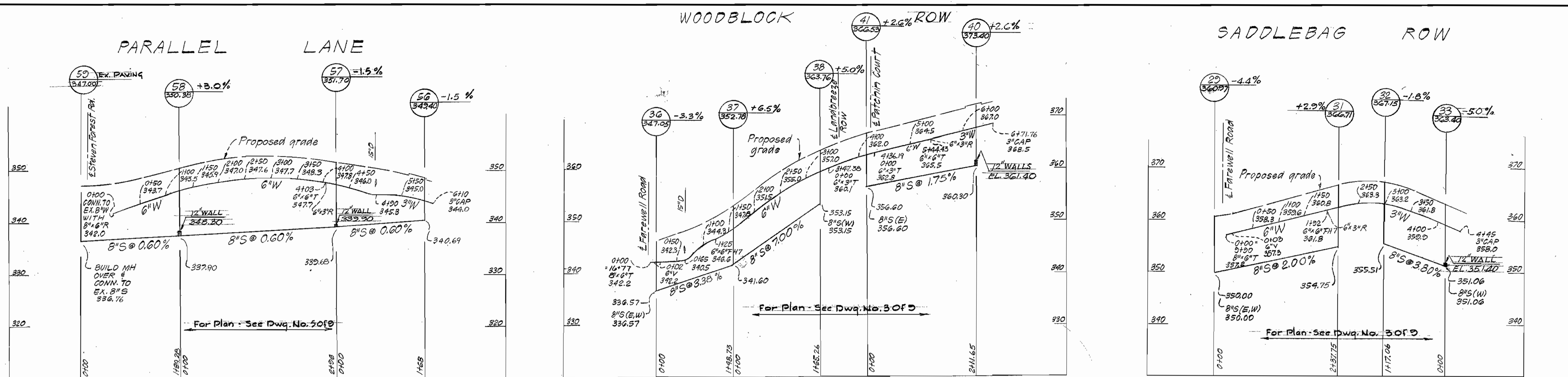
PROFILES OF
WATER & SEWER MAINS

COLUMBIA
VILLAGE OF OAKLAND MILLS
SECTION 5 STEVENS FOREST AREA 6

DRAWING NO. 7 OF 9
 SCALE: HORIZ. 1"=100' VERT. 1"=10'
 DES: T.P. DRW: J.P. CHK: T.P.

AS BUILT APRIL 13, 1972

WS 429 W&S/7



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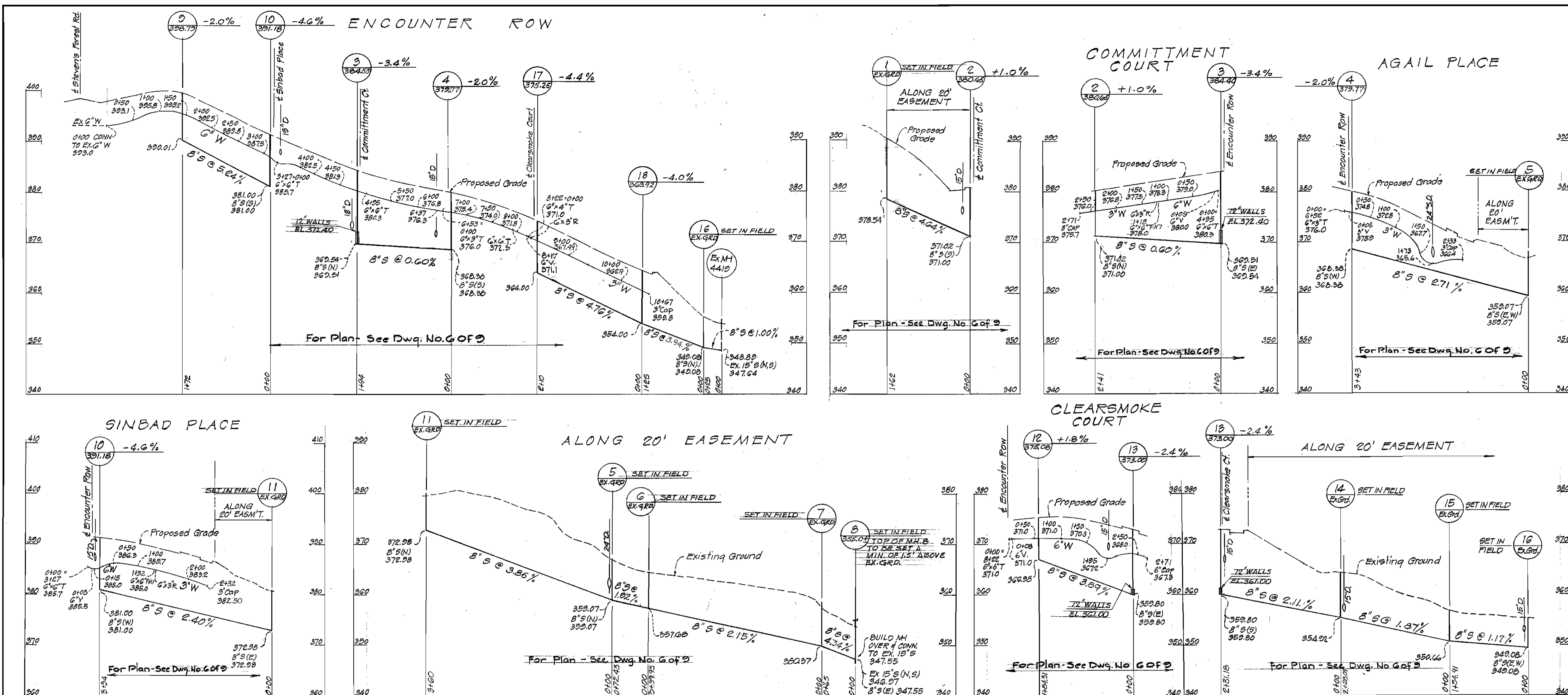
PROFILES OF
WATER & SEWER MAINS

COLUMBIA
VILLAGE OF OAKLAND MILLS
SECTION 5 STEVENS FOREST AREA 6

DRAWING NO. 8 OF 9
SCALE: HORIZ. 1"=100' VERT. 1"=10'
DES: T.P. DRW: J.W. CHK: T.P.

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**PROFILES OF
 WATER & SEWER MAINS**

**COLUMBIA
 VILLAGE OF OAKLAND MILLS
 SECTION 5 STEVENS FOREST AREA 6**

DRAWING NO. 9 OF 9
 SCALE: HORIZ. 1"=100' VERT. 1"=10'

DES. T.P.
 DRW. J.P.
 CHK. T.P.

AS BUILT APRIL 13, 1972

WS 429 wds/9