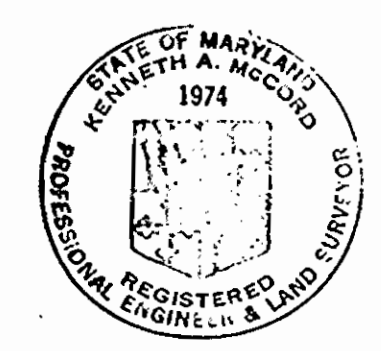


**CONTRACT 162-W&S**  
**WATER & SEWER EXTENSIONS**  
**HOWARD COUNTY METROPOLITAN COMMISSION**  
**ELLICOTT CITY, MARYLAND**



*Kenneth A. McLeod*

The Birches  
Contract No. 162-W&S

WHITMAN, REQUARDT & ASSOCIATES ENGINEERS 1304 ST. PAUL ST. BALTIMORE, MARYLAND	HOWARD COUNTY METROPOLITAN COMMISSION DATE: 11-16-66 CHIEF ENGINEER: <i>W. O. Salter</i>	CONTRACT NO. 162-W&S	LOCATION MAP	COLUMBIA VILLAGE OF WILDE LAKE ELECTION DISTRICT-CLARKSVILLE No. 5	DRAWING NO. 1 OF 4 SCALE AS SHOWN
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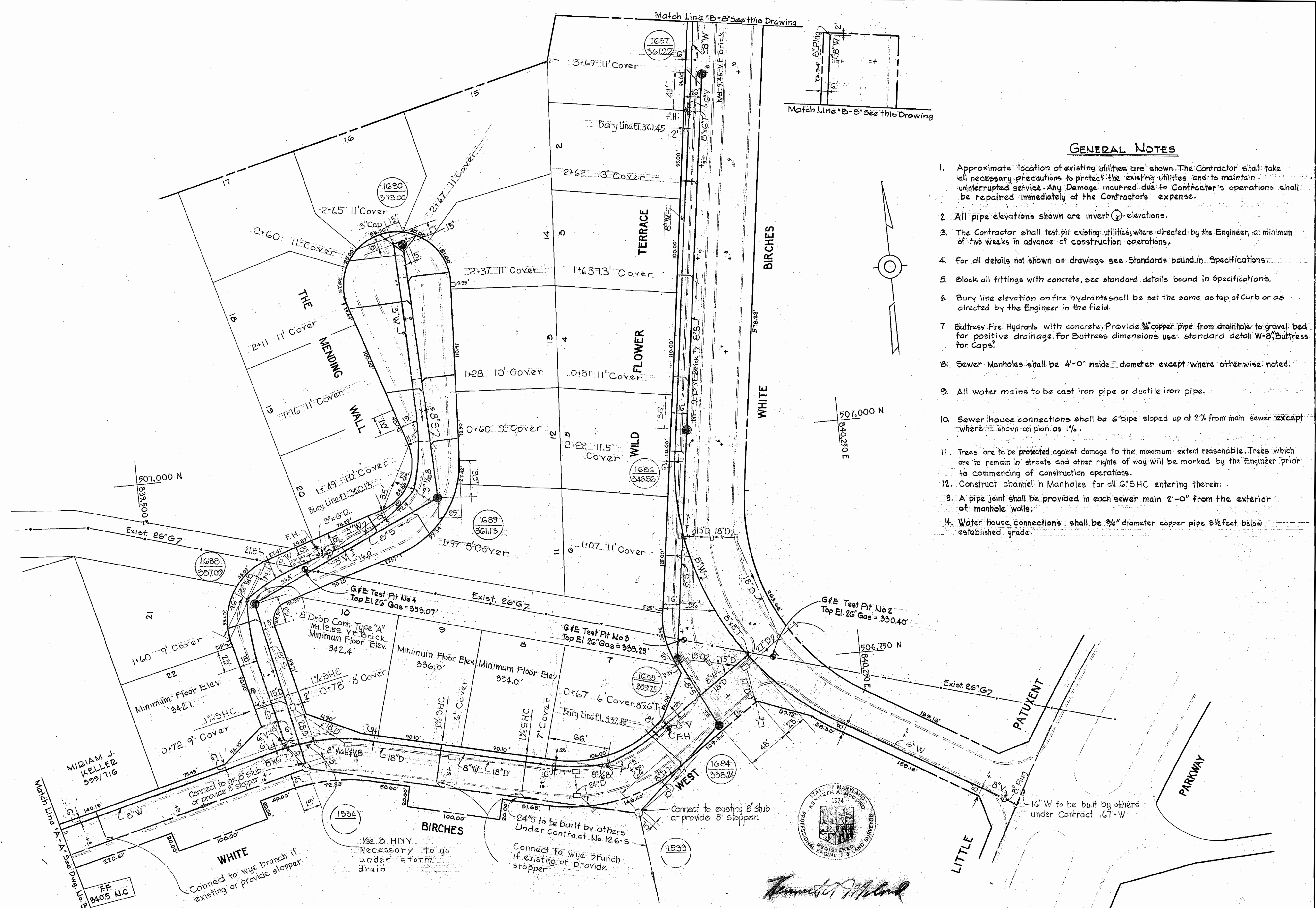
W. O. 5735

AS BUILT Sept. 5, 1967

1/5 CM 201 CM



WS 162 W&S/2



**GENERAL NOTES**

1. Approximate location of existing utilities are shown. The Contractor shall take all necessary precautions to protect the existing utilities and to maintain uninterrupted service. Any Damage incurred due to Contractor's operations shall be repaired immediately at the Contractor's expense.
2. All pipe elevations shown are invert elevations.
3. The Contractor shall test pit existing utilities, where directed by the Engineer, a minimum of two weeks in advance of construction operations.
4. For all details not shown on drawings see Standards bound in Specifications.
5. Block all fittings with concrete, see standard details bound in Specifications.
6. Bury line elevation on fire hydrants shall be set the same as top of curb or as directed by the Engineer in the field.
7. Buttress Fire Hydrants with concrete. Provide 3/4" copper pipe from drainhole to gravel bed for positive drainage. For Buttress dimensions use standard detail W-8, Buttress for Caps.
8. Sewer Manholes shall be 4'-0" inside diameter except where otherwise noted.
9. All water mains to be cast iron pipe or ductile iron pipe.
10. Sewer house connections shall be 6" pipe sloped up at 2% from main sewer except where shown on plan as 1%.
11. Trees are to be protected against damage to the maximum extent reasonable. Trees which are to remain in streets and other rights of way will be marked by the Engineer prior to commencing of construction operations.
12. Construct channel in Manholes for all 6" SHC entering therein.
13. A pipe joint shall be provided in each sewer main 2'-0" from the exterior of manhole walls.
14. Water house connections shall be 3/4" diameter copper pipe 3/4 feet below established grade.



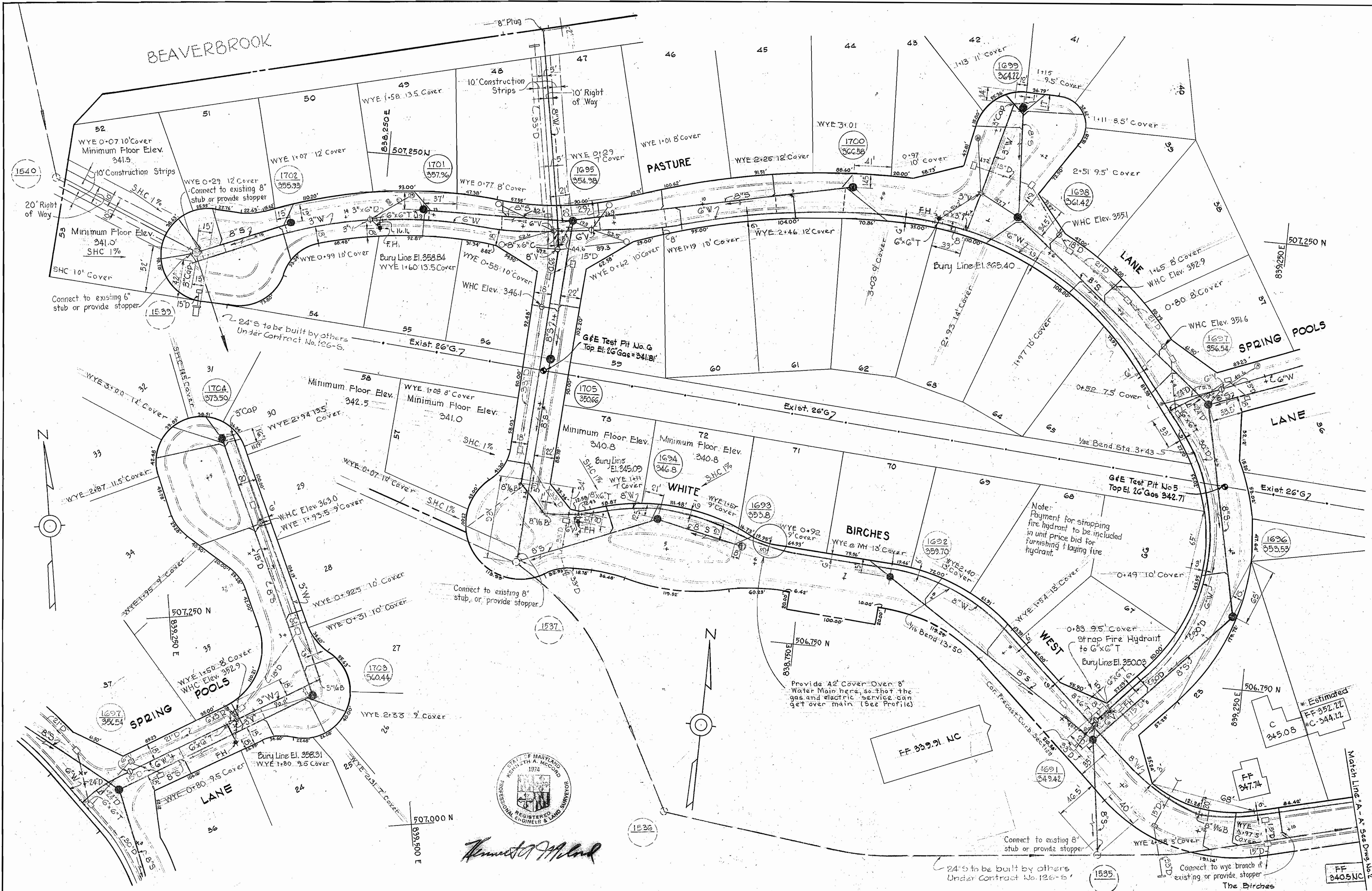
*Kenneth A. McCord*

<p>WHITMAN, REQUARDT &amp; ASSOCIATES ENGINEERS 1304 ST. PAUL ST. BALTIMORE, MARYLAND</p>	<p>HOWARD COUNTY METROPOLITAN COMMISSION DATE 11-16-66 W. O. Liburd CHIEF ENGINEER</p>	<p>CONTRACT NO. 162-W&amp;S</p>	<p>PLAN OF WATER &amp; SEWER MAINS</p>	<p>COLUMBIA VILLAGE OF WILDE LAKE ELECTION DISTRICT-CLARKVILLE No. 5</p>	<p>DRAWING NO. 2 OF 4 SCALE 1"=50'</p>
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AS BUILT Sept. 5, 1967





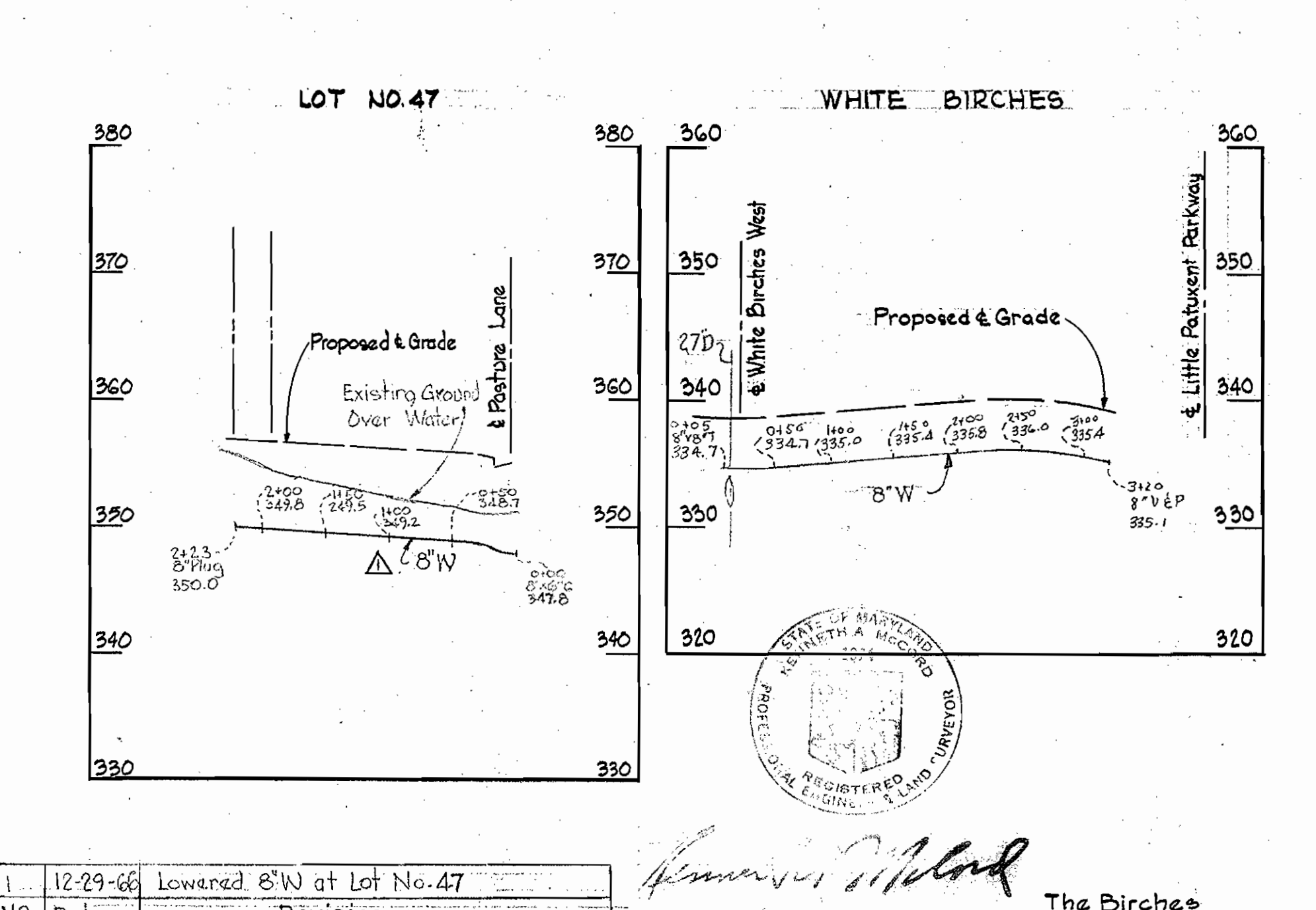
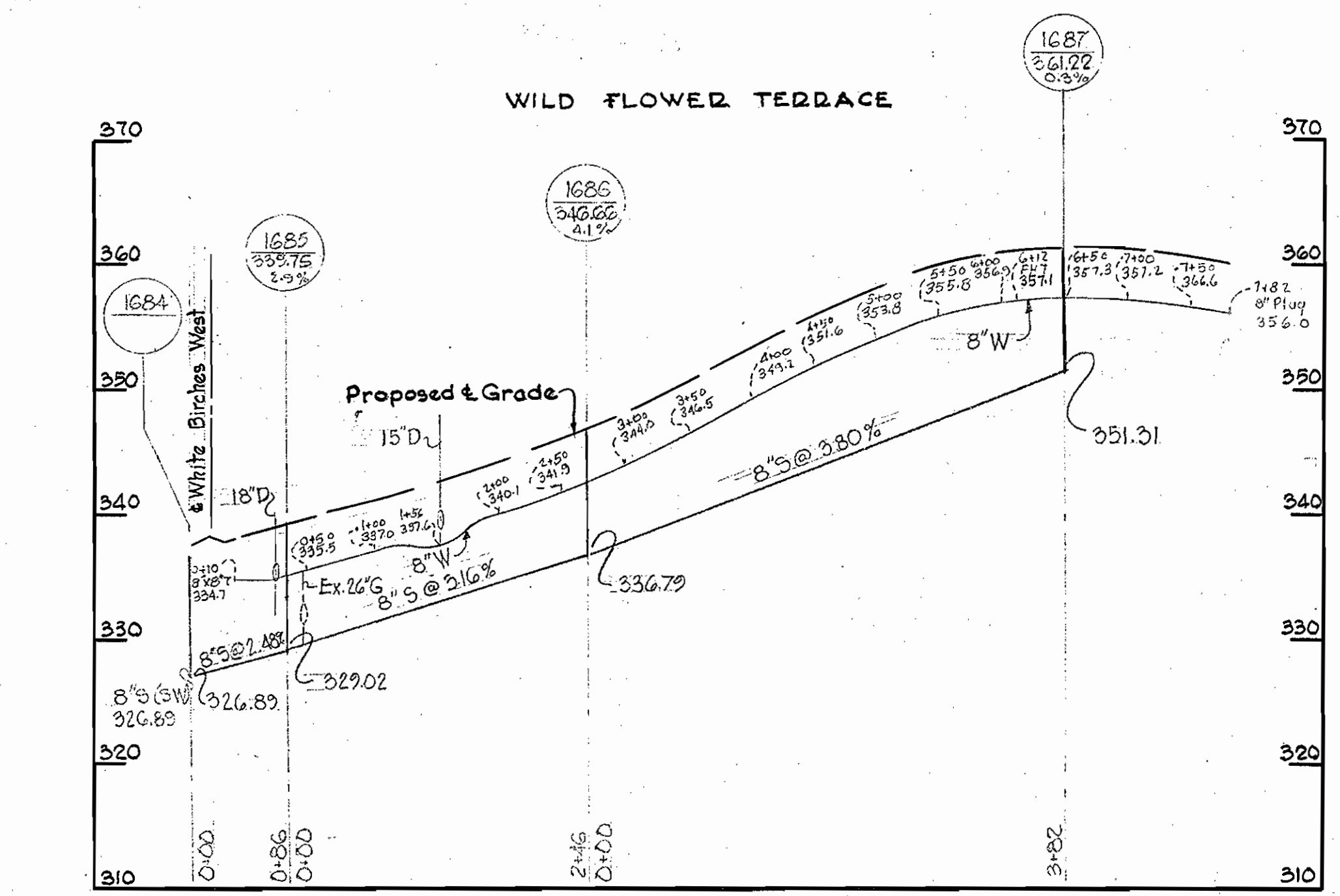
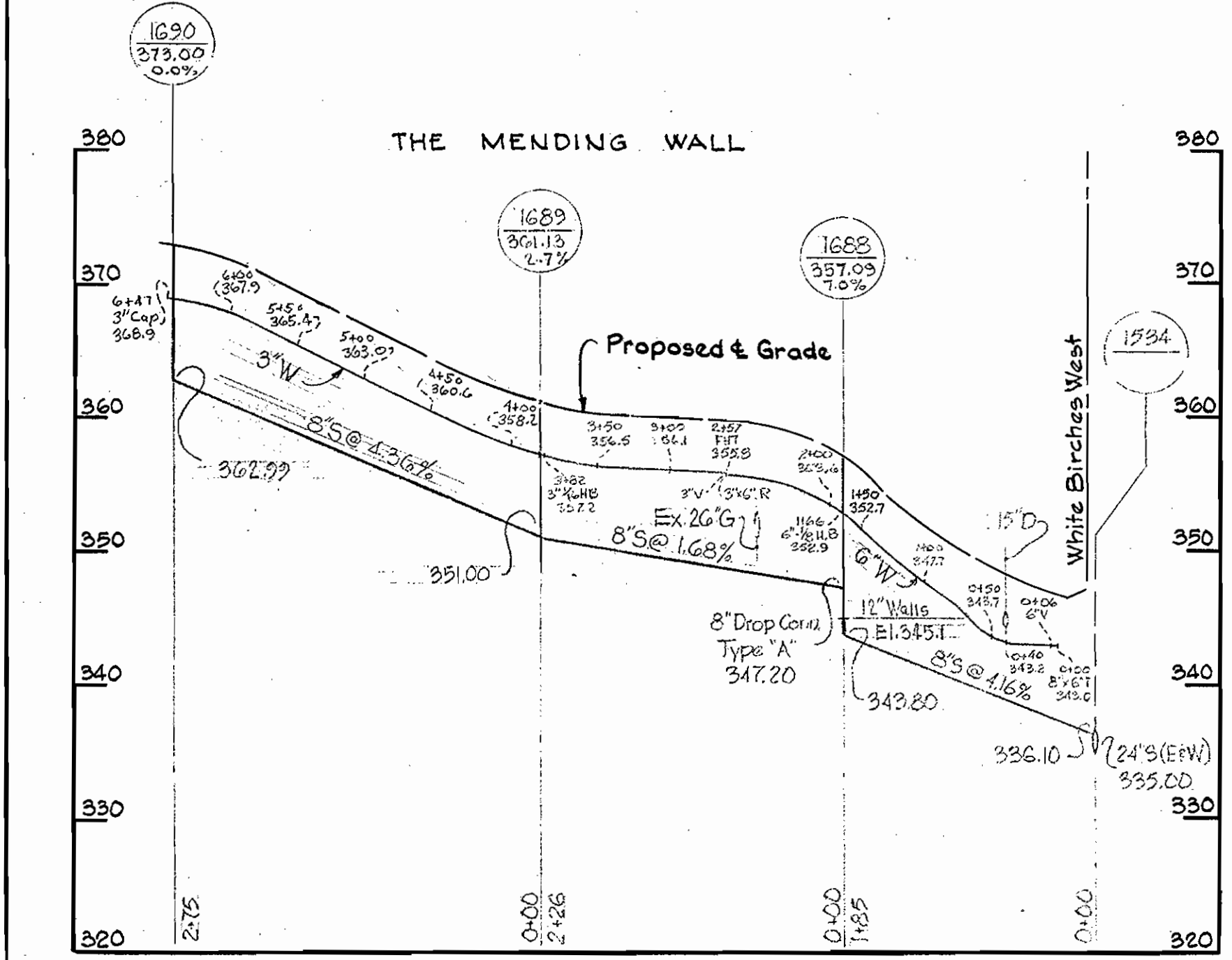
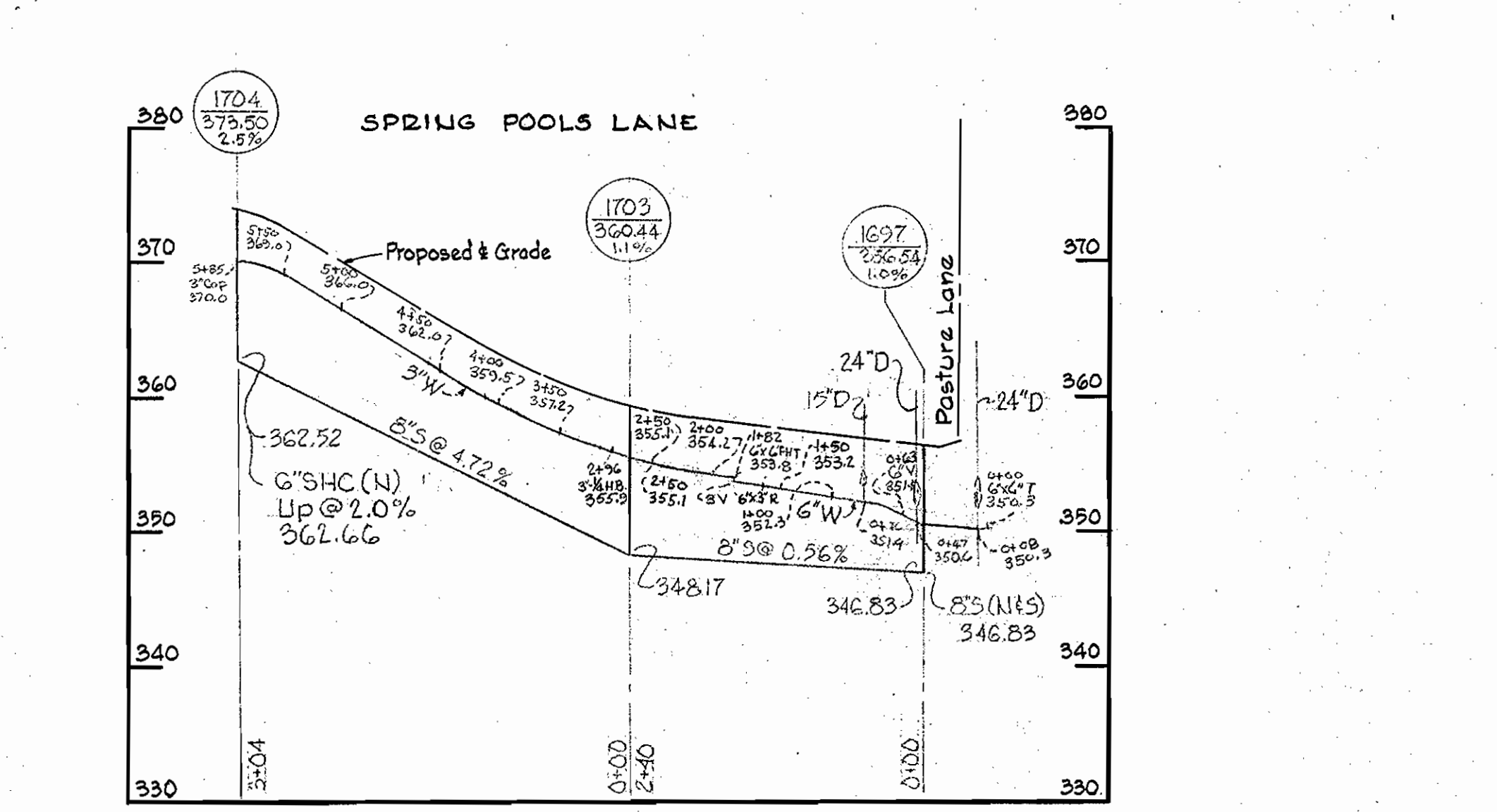
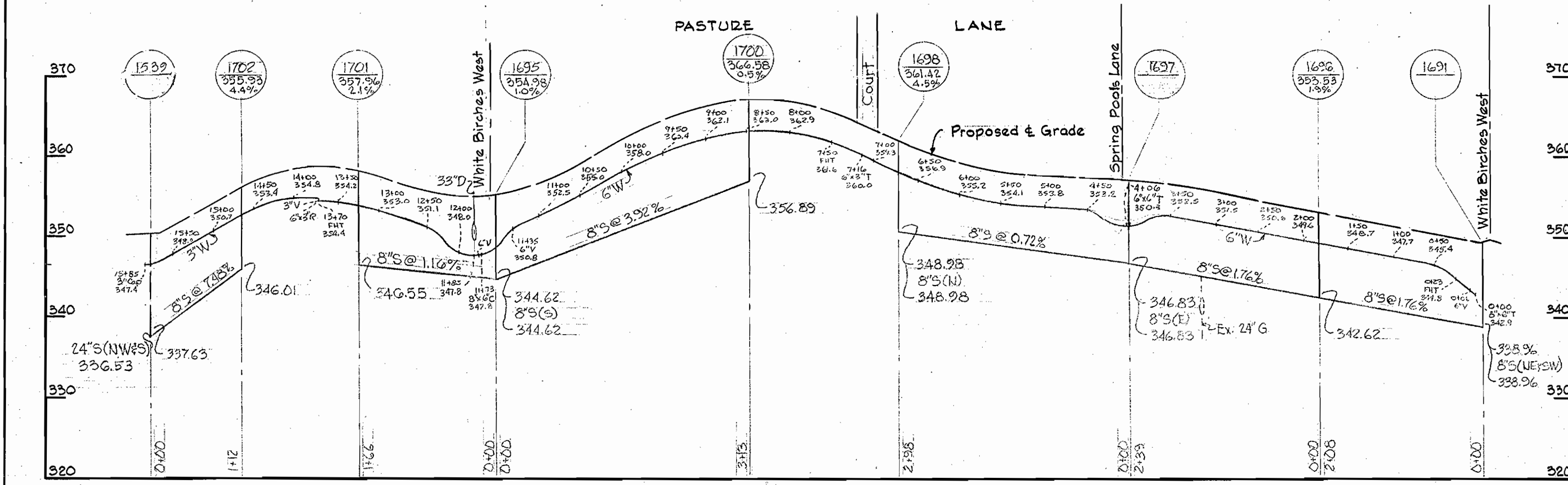
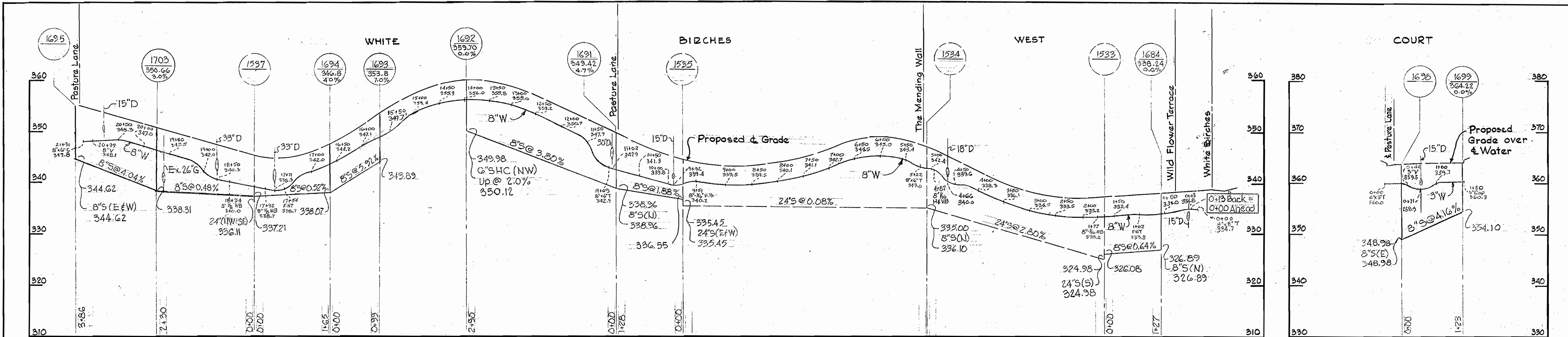
WS 162 W&S / 3

WHITMAN, REQUARDT & ASSOCIATES ENGINEERS 1304 ST. PAUL ST. BALTIMORE, MARYLAND	HOWARD COUNTY METROPOLITAN COMMISSION 11-16-66 DATE <i>W O Fildes</i> CHIEF ENGINEER	CONTRACT NO. 162-W&S	PLAN OF WATER & SEWER MAINS	COLUMBIA VILLAGE OF WILDE LAKE ELECTION DISTRICT-CLARKVILLE No. 5	DRAWING NO. 3 OF 4 SCALE 1"=50' * Estimated FF 352.22 * C-344.72 FF 347.74 FF 345.03 FF 353.53 FF 340.5 NC The Birches Contract No. 162-W&S
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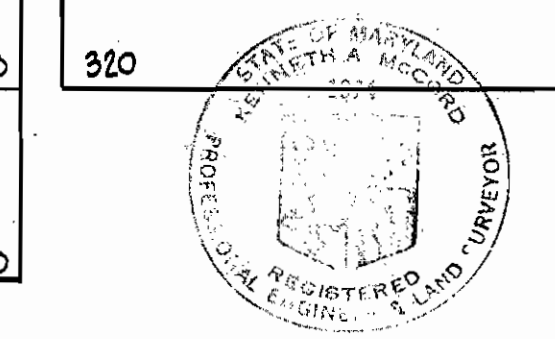
W. O. 5735

AS BUILT Sept. 5, 1967





No.	Date	Revision
1	12-29-66	Lowered 8"W at Lot No. 47



*Howard County*

The Birches  
Contract No. 162-W&S

WHITMAN, REQUARDT & ASSOCIATES ENGINEERS 1304 ST. PAUL ST. BALTIMORE, MARYLAND	HOWARD COUNTY METROPOLITAN COMMISSION 11-16-66 DATE	CONTRACT NO. 162-W&S CHIEF ENGINEER	PROFILE OF WATER & SEWER MAINS	COLUMBIA VILLAGE OF WILDE LAKE ELECTION DISTRICT-CLARKSVILLE No. 5	DRAWING NO. 4	SCALE H-1"=100'
					OF 4	V-1"=10'

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AS BUILT Sept. 5, 1967

NS 162 W&S/4