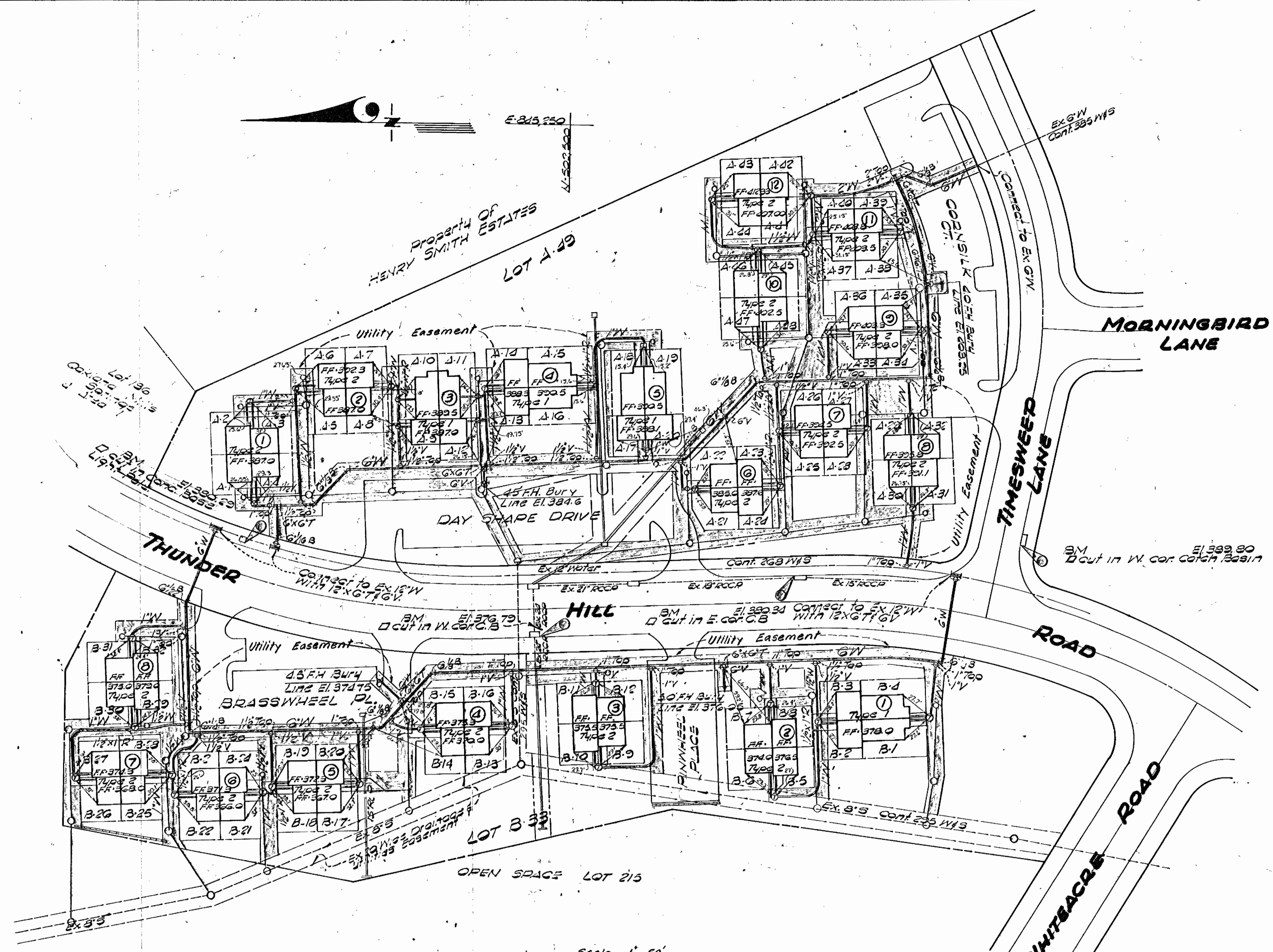


WATER NOTES

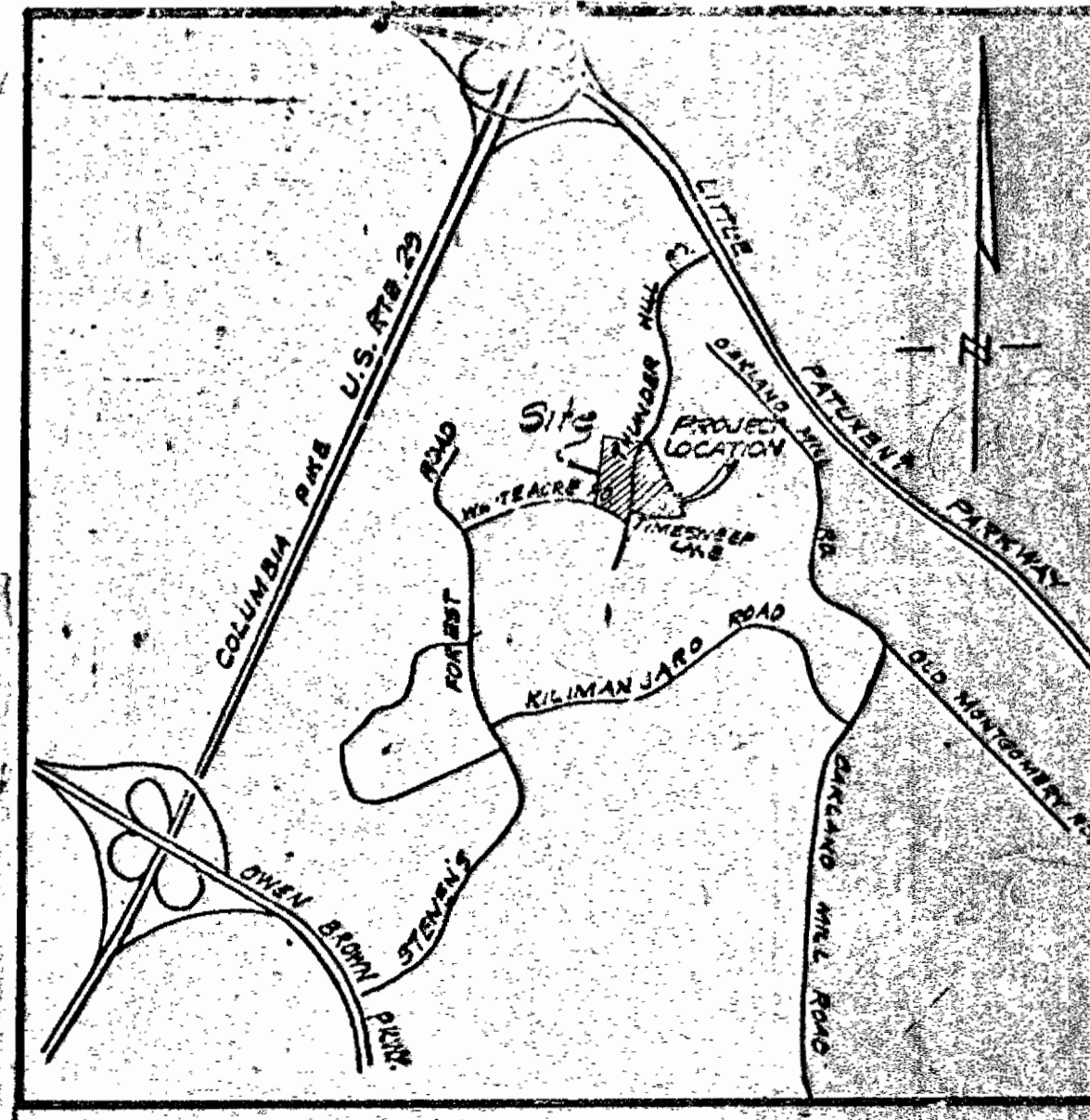
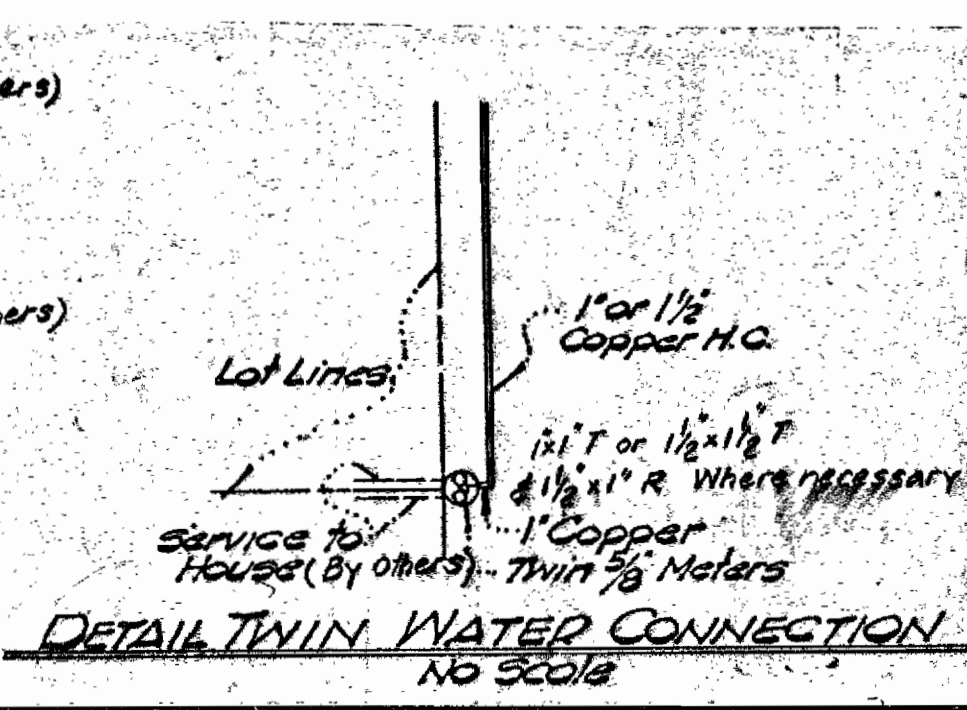
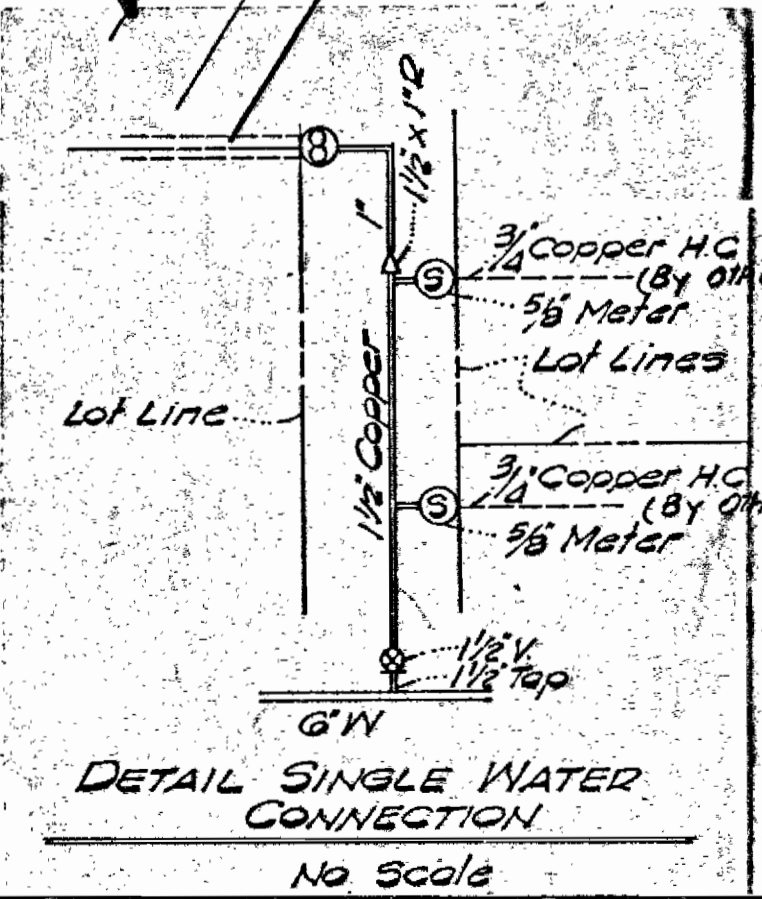
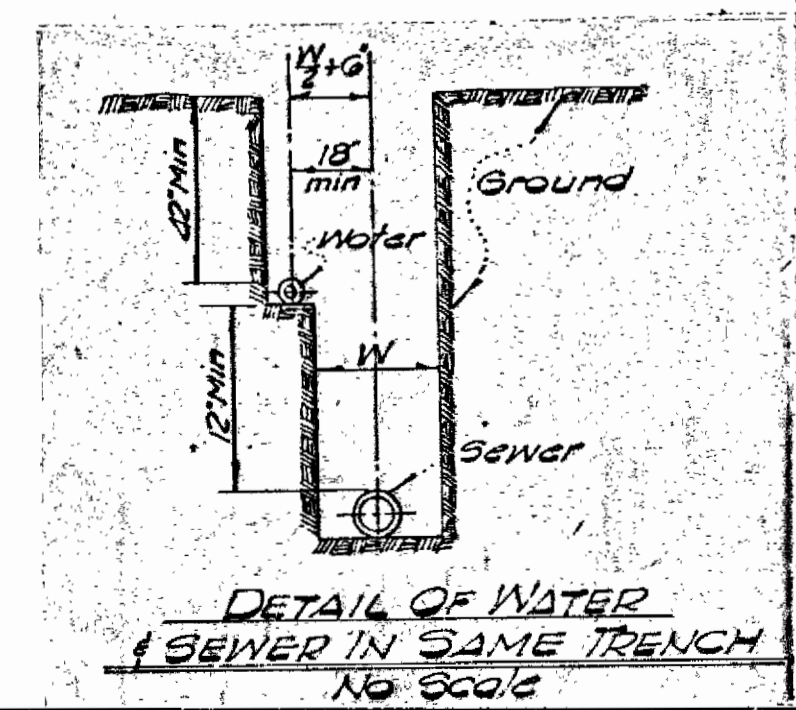
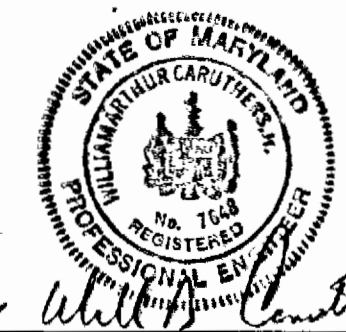
- 1) Location of existing water from plans by Howard County.
- 2) All water mains to be laid with a minimum of 3.5' cover unless otherwise noted.
- 3) For details of dual house connections see detail right this sheet.
- 4) All water house connections shall have valves.
- 5) All construction & materials shall be in accordance with Howard County standards.
- 6) Contractor shall verify locations & elevation of all existing utility lines at least 2 weeks before proceeding with this construction.
- 7) Contractor shall verify location W.H. & S.H. connections at building before proceeding with construction of onsite facilities.
- 8) All water mains shall be C.I.P. or A.C.P.X. unless otherwise noted.
- 9) All 1" & 1 1/2" water to be copper, type "K".
- 10) All W.H.C.'s to be 3/4" copper, type "K".
- 11) All W. & S.H. connections to be laid in same trench, see detail right.
- 12) All fittings to be blocked with concrete, see standards bound in specifications.
- 13) Contractor shall take all necessary precautions to protect existing mains & service connections and maintain uninterrupted supply. Any damage incurred shall be repaired immediately.
- 14) All pipe elevations shown are invert ϕ elevations.
- 15) For all standard details see standards bound in specifications.
- 16) Clear all utilities by a minimum of 6", all poles by a minimum of 2' 0" or tunnel as required.
- 17) Fire hydrants shall be set at the bury line elevations shown on drawings.
- 18) Fire hydrants shall be strapped to trees and buttressed with concrete in accordance with standard details.
- 19) All valves shall be strapped to trees in accordance with standard details.
- 20) Costs of strapping fire hydrants & valves to trees shall be included in the unit price bid for furnishing & laying of water mains.
- 21) Contractor shall notify The Balto. Gas & Electric Co. 72 hours in advance of excavation by calling 301-539-8000 Ext. 69.
- 22) Contractor shall notify the C&P Telephone Co. prior to any construction in the vicinity of any telephone Co. facilities by calling collect 301-685-0400 in Balto., Md.
- 23) All water meters to be either twin 5/8" meters (Furnished by others) or single 5/8" meters (Furnished by others) as indicated.
- 24) Single meters shown thus ϕ 5/8" B.S.G.W.
- 25) Twin meters shown thus ϕ 5/8" B.S.G.W.
- 26) Hydraulic Gradient ϕ 550'.
- 27) Coordinates shown are based on Maryland State Datum.



Scale: 1" = 50'

Note: The right to use additional strips or parcels of land adjacent to the easement as shown on the plan are granted unto Howard County, during the period of original construction only.

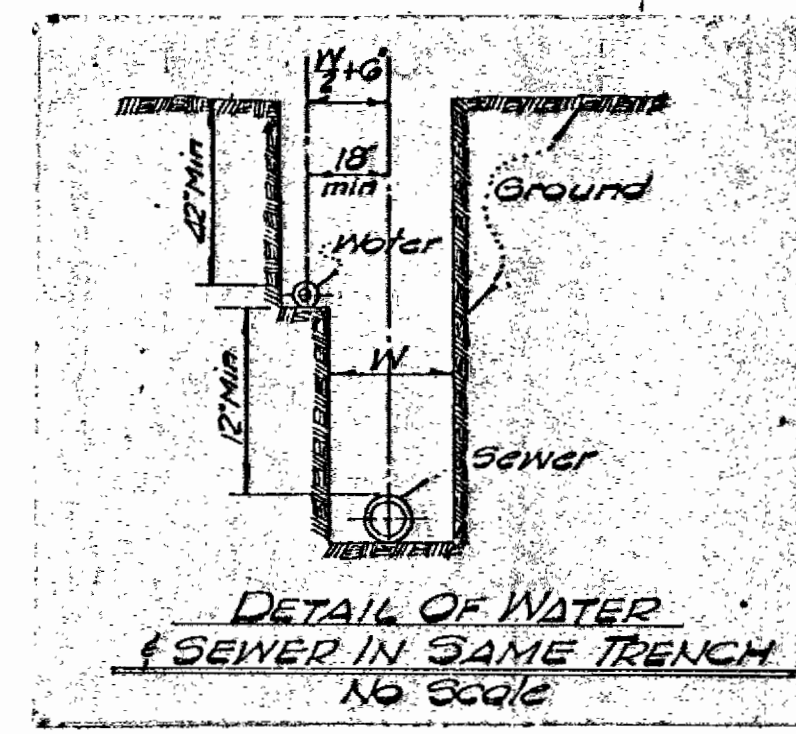
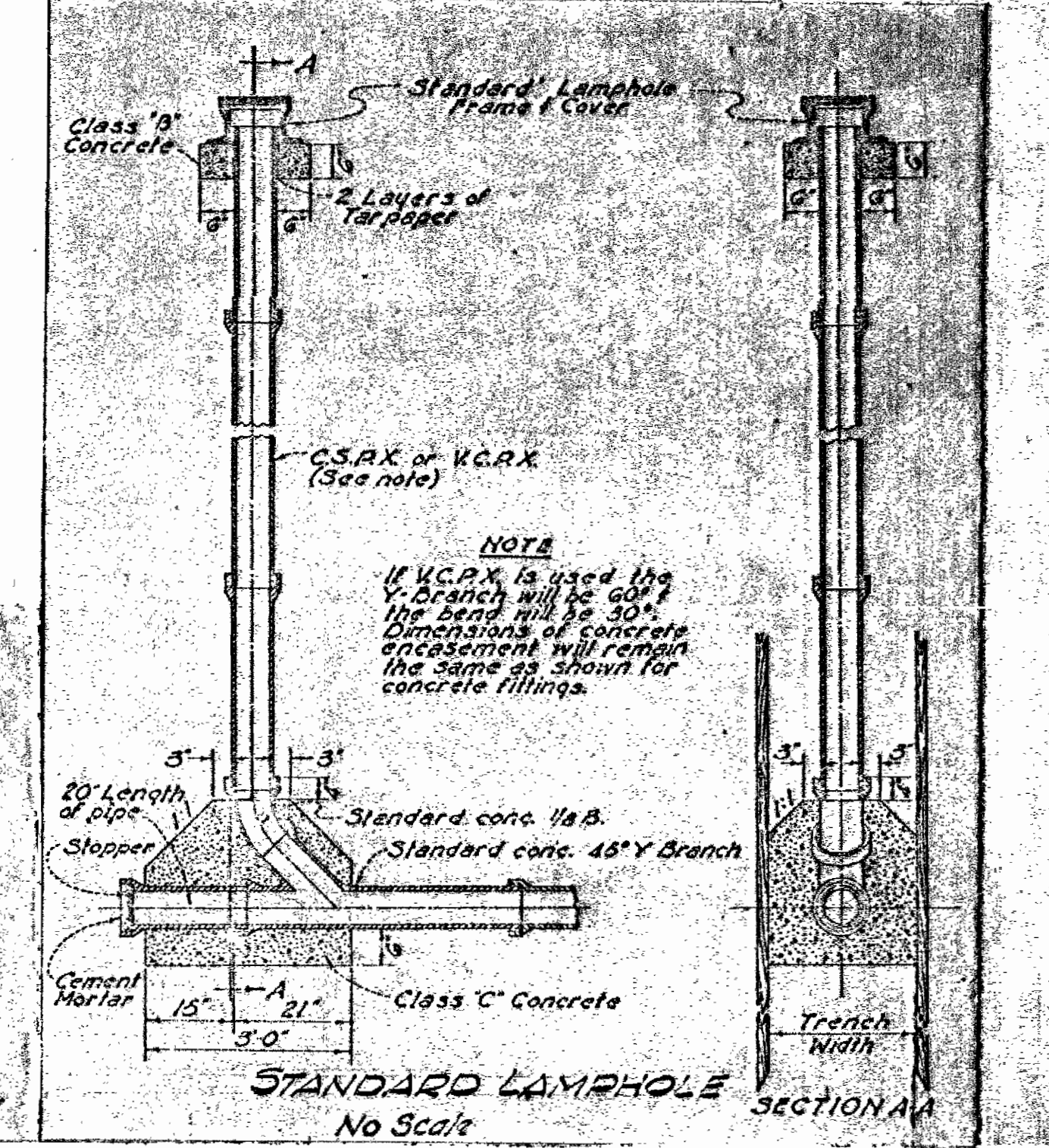
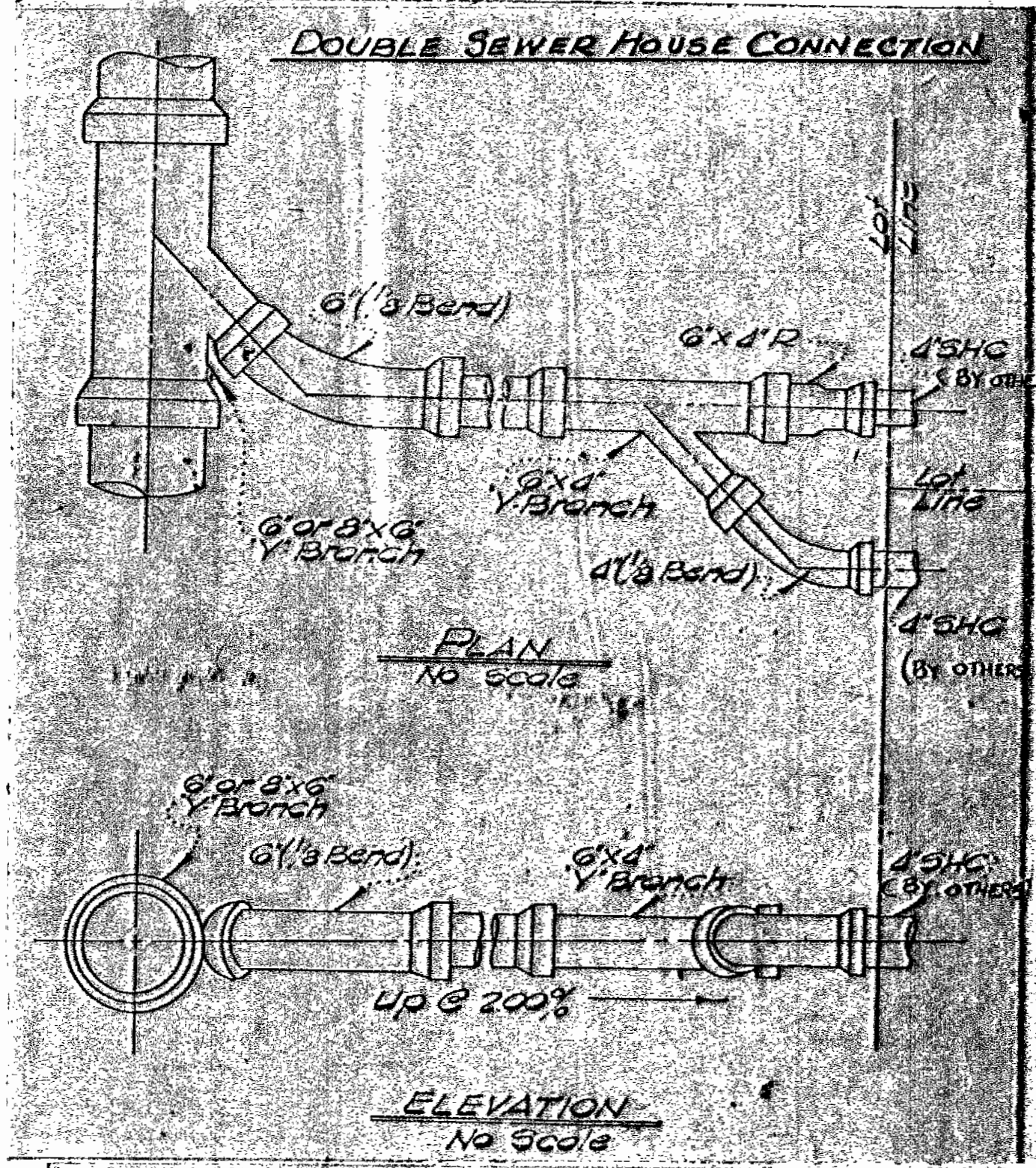
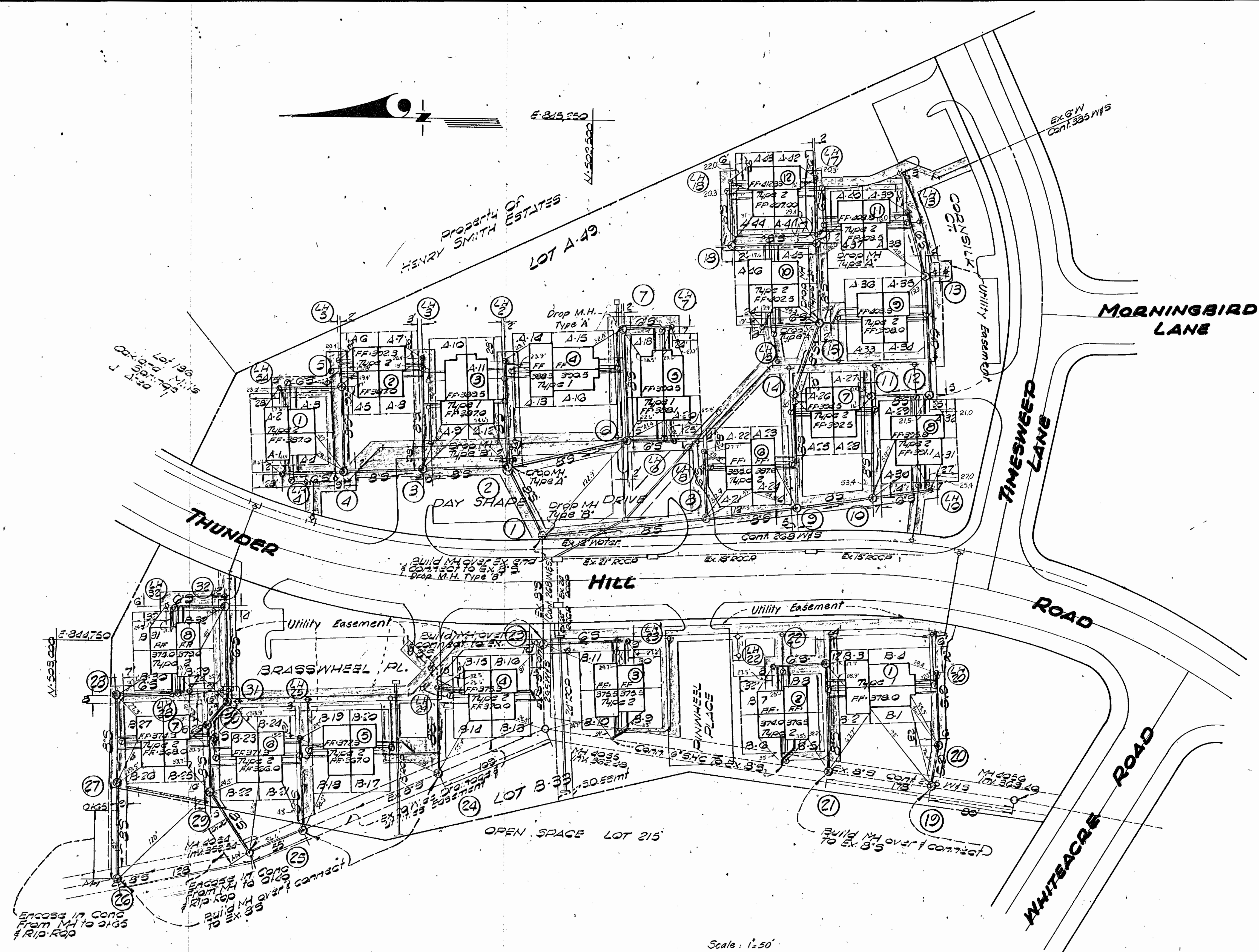
Design L.C.
Drawn L.C.
Check Z.A.B.B.
Date Nov 1972



GREENHORNE & O MARA, INC. ENGINEERS ARCHITECTS PLANNERS SURVEYORS 6715 KENILWORTH AVENUE RIVERDALE, MARYLAND	HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS 2-9-73 Date W.O. Fullerton Chief Engineer	CONTRACT NO. 2494 DW#S	PLAN WATER	COLUMBIA VILLAGE OF OAKLAND MILLS SECTION 4 AREA I LOT A-183 THRU LOT A-494 B33 A RESUBDIVISION OF PAR. A-13	DRAWING NO. 1 OF 3 SCALE As Shown
---	--	------------------------	------------	--	-----------------------------------

SEWER NOTES

- 1) All construction shown hereon to be done in accordance with Howard County standards bound in specifications for this job.
- 2) All onsite sewer house connections to be 14" cast iron, extra heavy weight.
- 3) For details of dual sewer house connections see upper right.
- 4) Existing sewer from plans by Howard County, Dept. of Public Works.
- 5) All manholes shall be constructed to proposed grade & shall be 4'-0" inside dia. unless noted.
- 6) Contractor shall verify location & elevation of all existing utilities a minimum of 2 weeks before proceeding with construction in vicinity of utilities.
- 7) Contractor shall verify location of W.H. connections & S.H. connections at buildings before proceeding with construction of onsite facilities.
- 8) All 6" & 8" sewers and S.H.C.'s shall be C.S.P.X. or A.C.P. Class 2400 unless noted.
- 9) All W. & S.H. connections to be laid in same trench, see detail sheet 1 of 2.
- 10) Approximate location of existing mains are shown. The contractor shall take all necessary precautions to protect existing mains and service connections & maintain uninterrupted supply. Any damages incurred shall be repaired immediately.
- 11) All pipe elevations shown are invert ∇ elevations.
- 12) Clear all utilities by a minimum of 6", all poles by a minimum of 2'-0" or tunnel as required.
- 13) Contractor shall provide a joint in all sewer mains within 2'-0" of exterior manhole walls.
- 14) Contractor shall notify the Baltimore Gas & Electric Co. 72 hours in advance of excavation by calling 539-8000, Ext. 69.
- 15) Contractor shall notify the C&P Telephone Co. prior to any construction in the vicinity of any Telephone Co. facility by calling collect 686-4000 in Balto., Md.

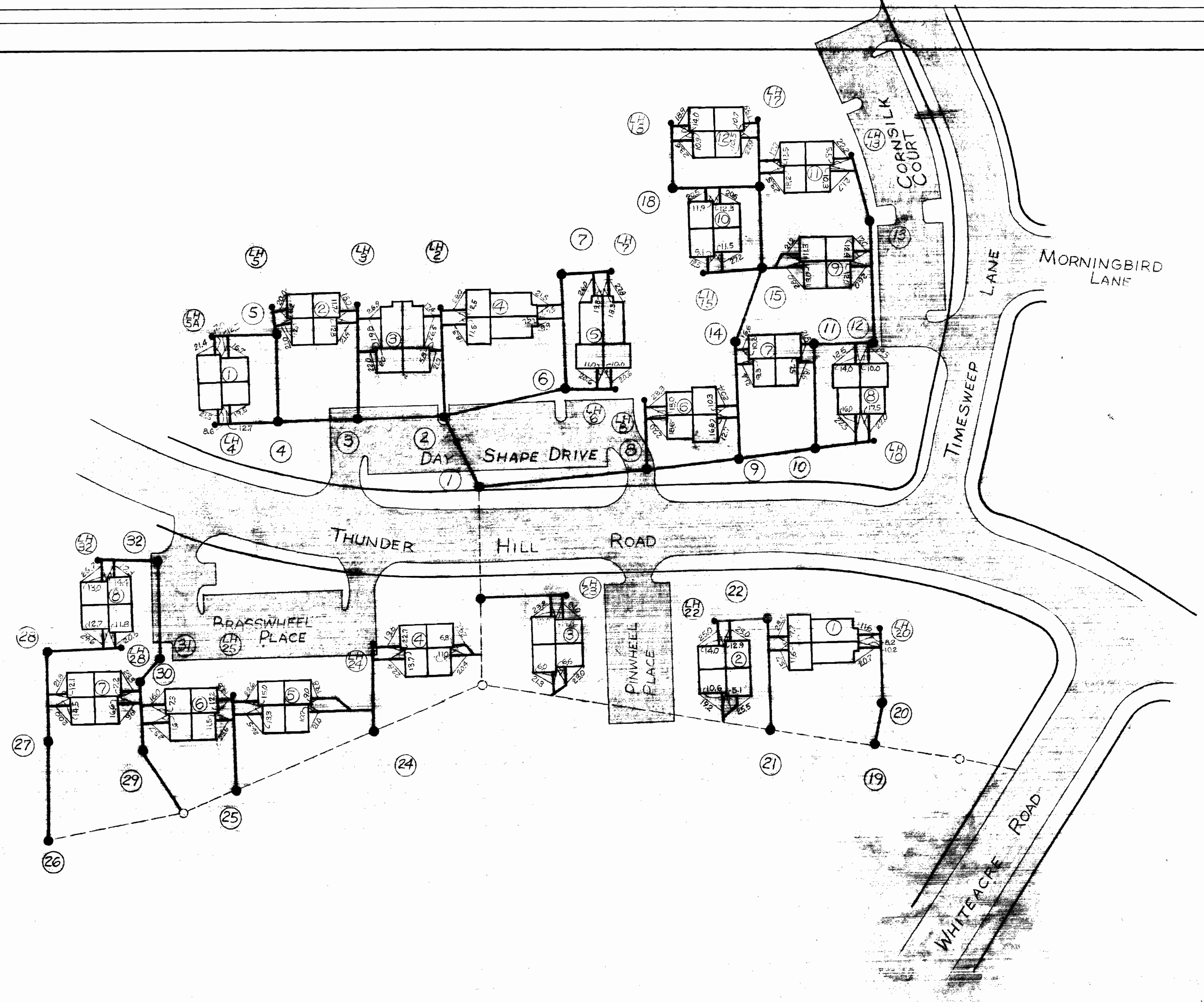


Note: The right to use additional strips or parcels of land adjacent to the easement as shown on the plan are granted unto Howard County, during the period of original construction only.



Suspense

Suspense



DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

CONTRACT NO. 494 DW'S

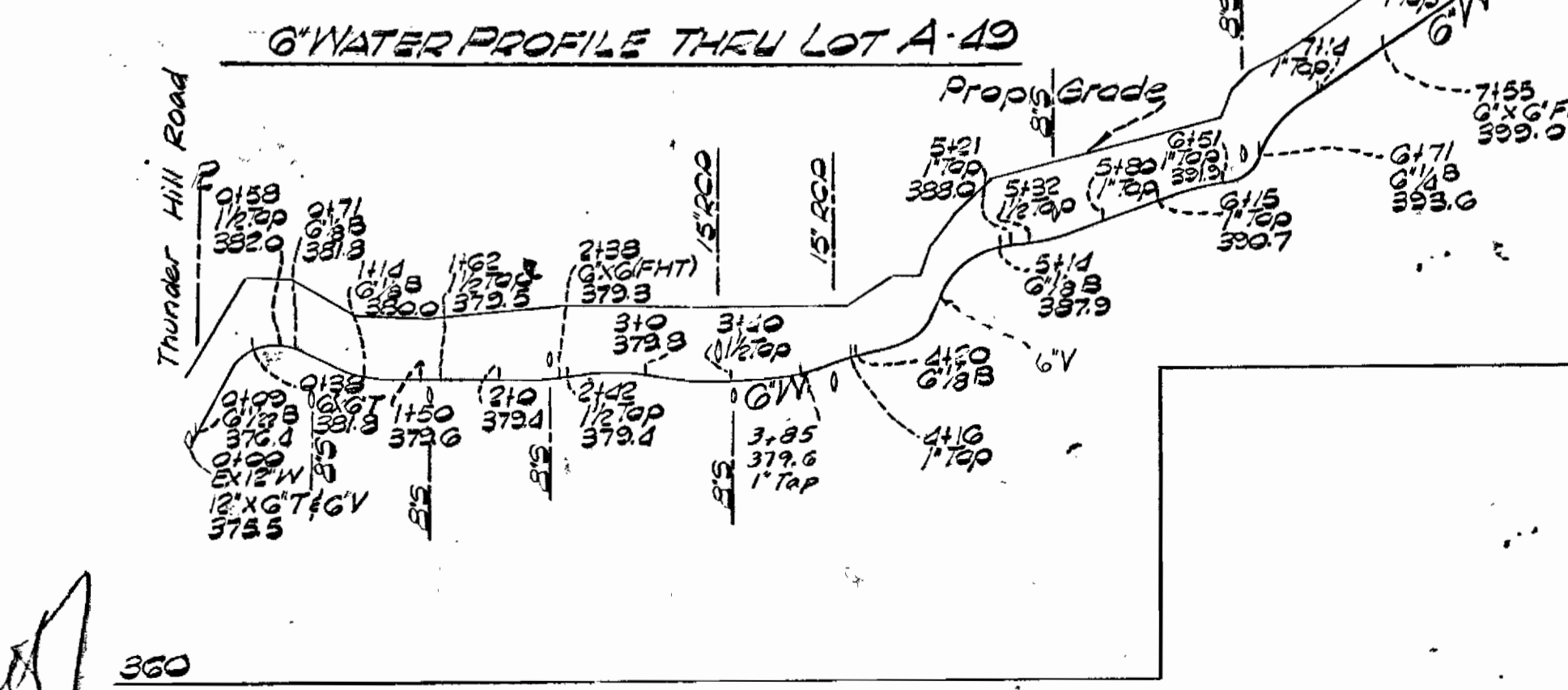
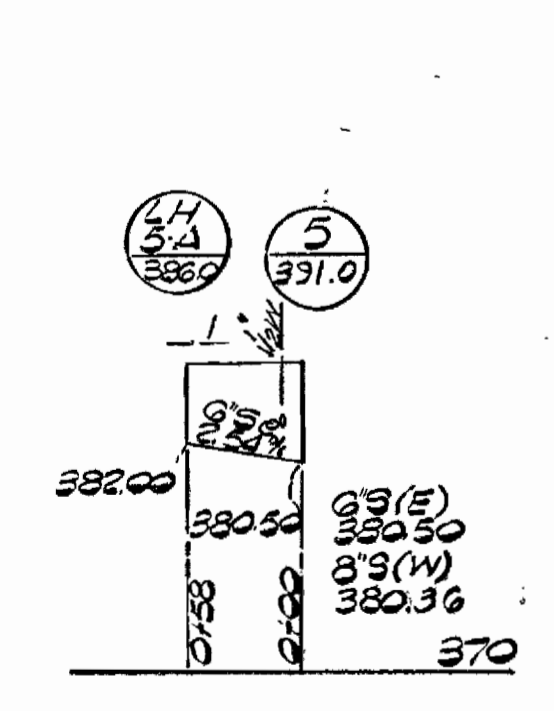
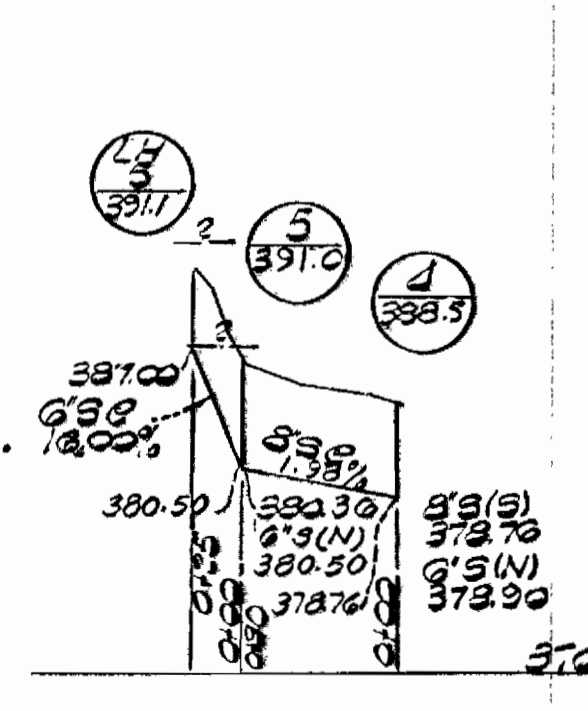
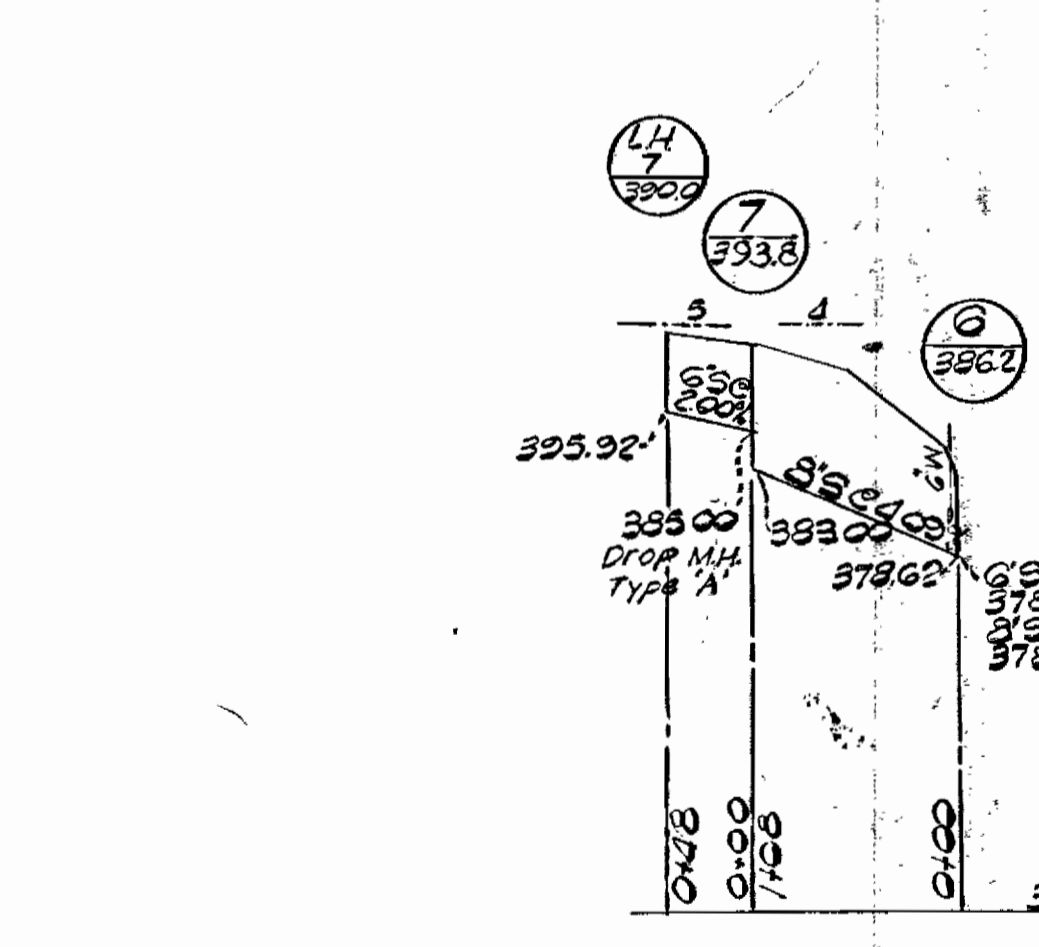
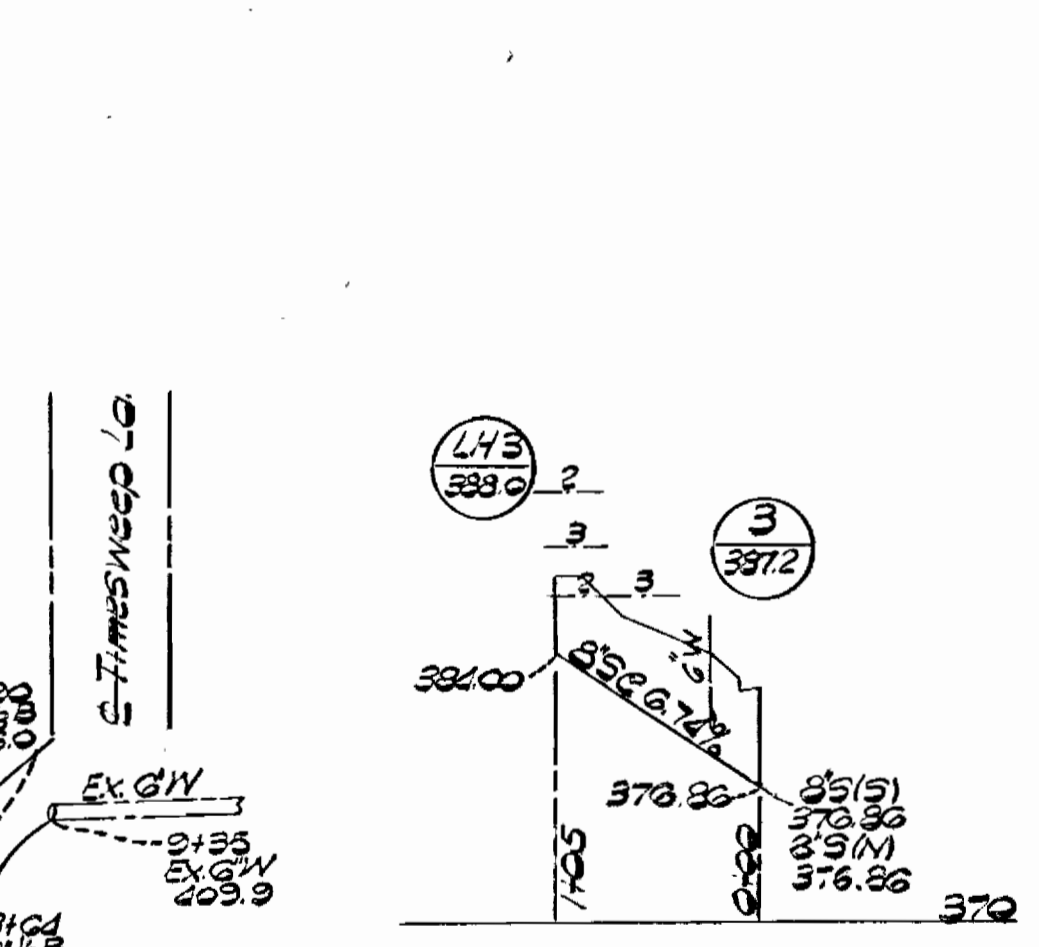
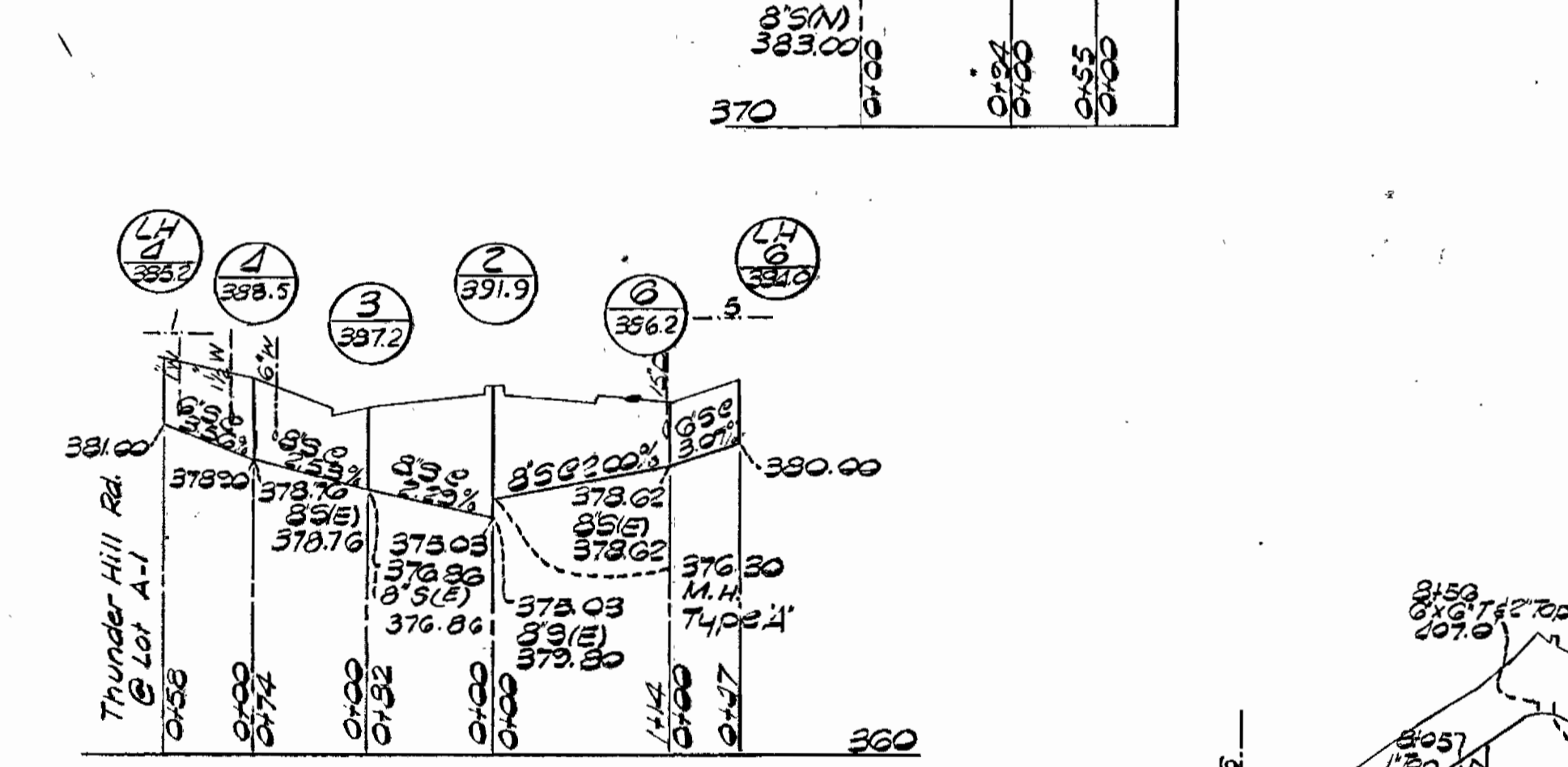
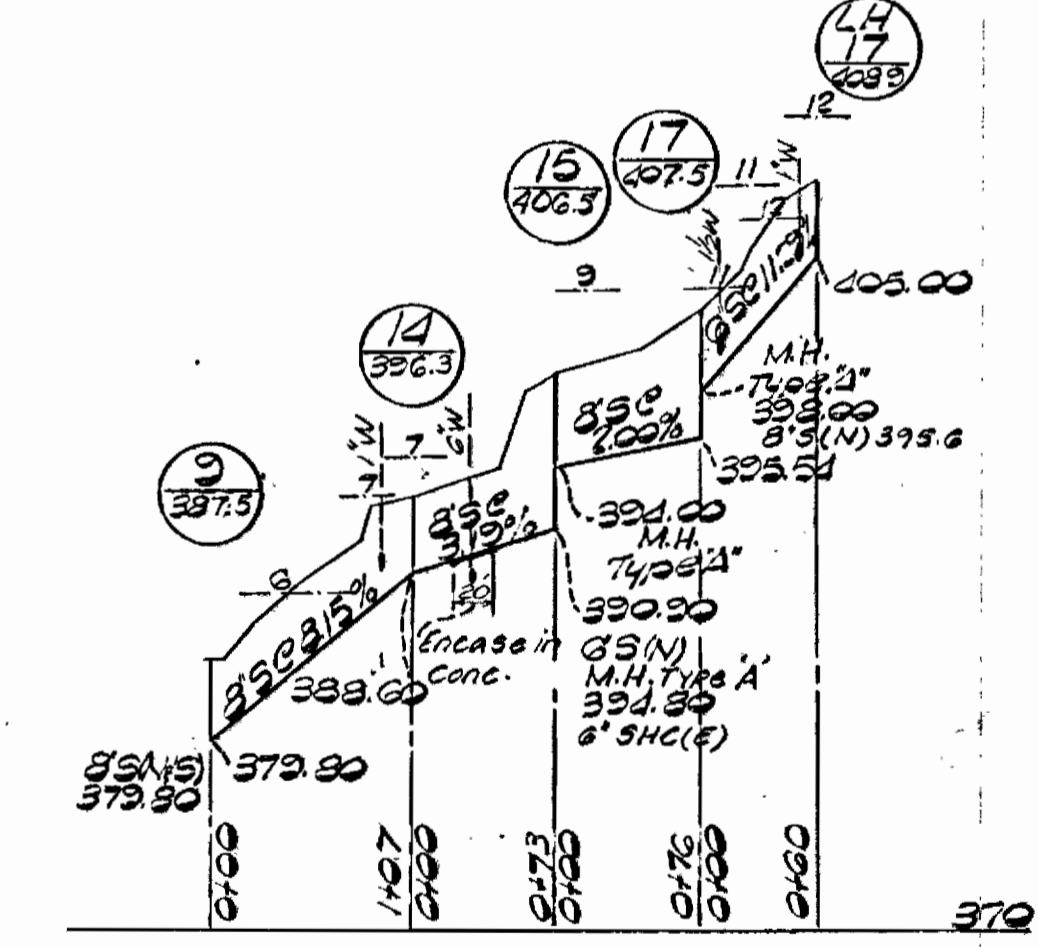
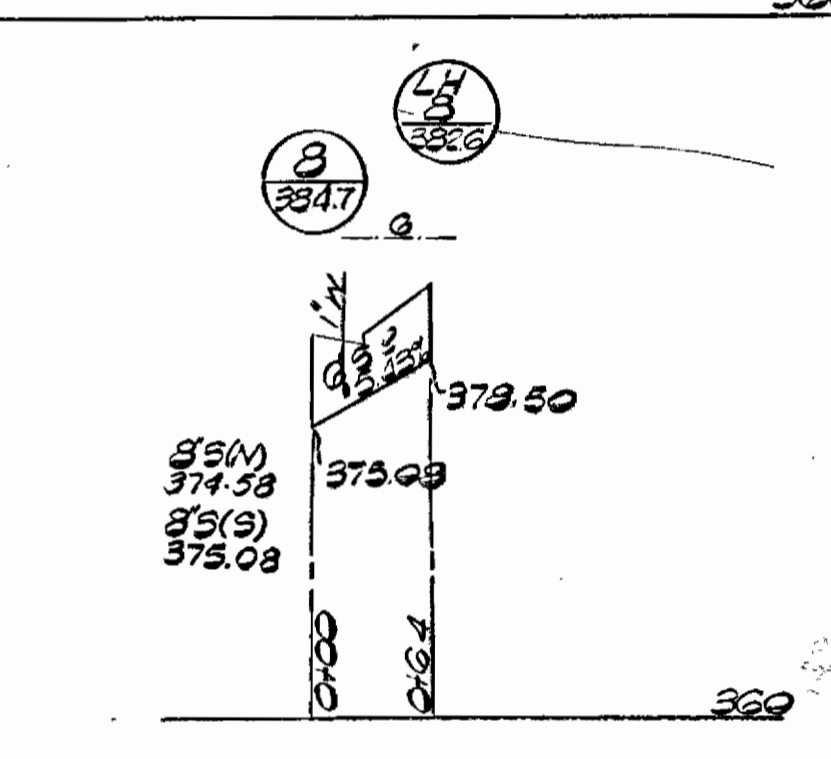
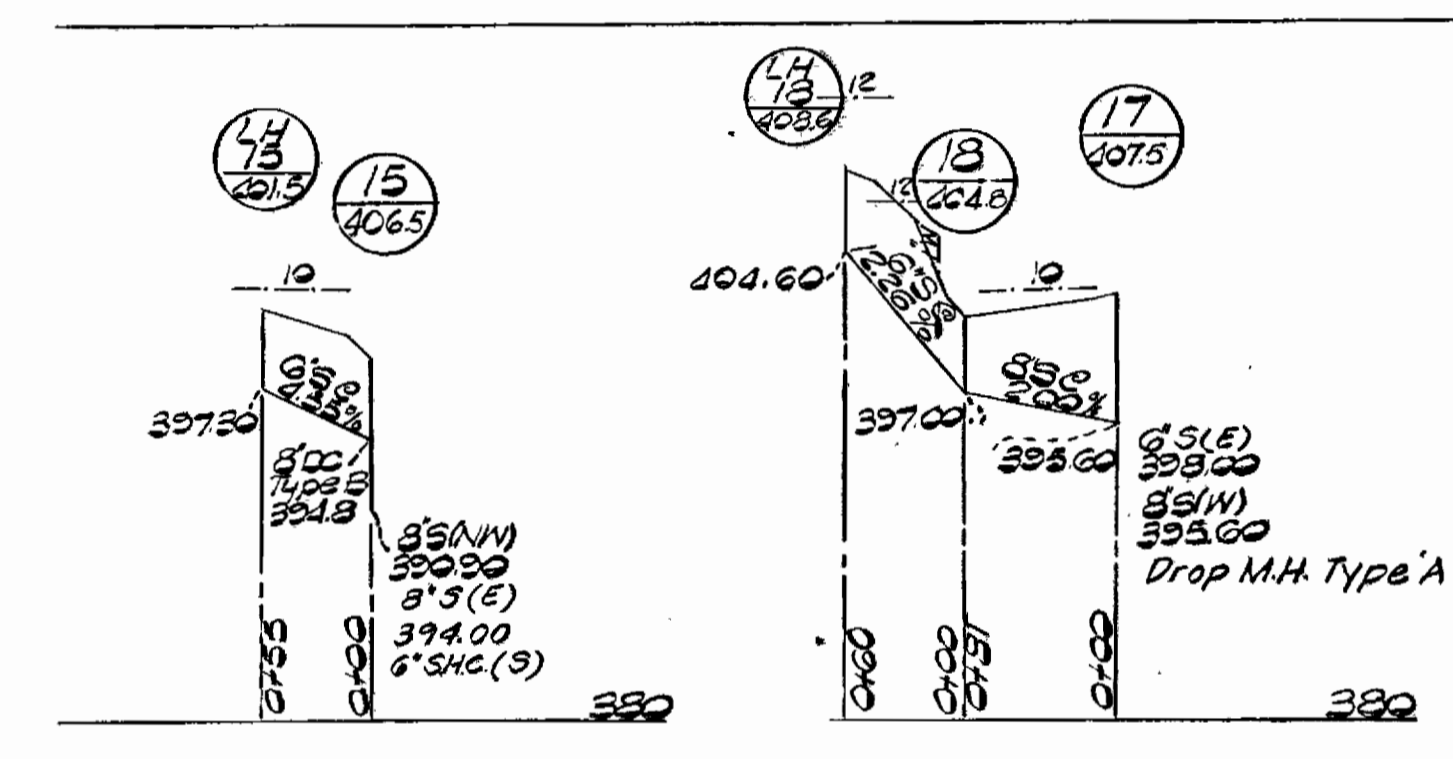
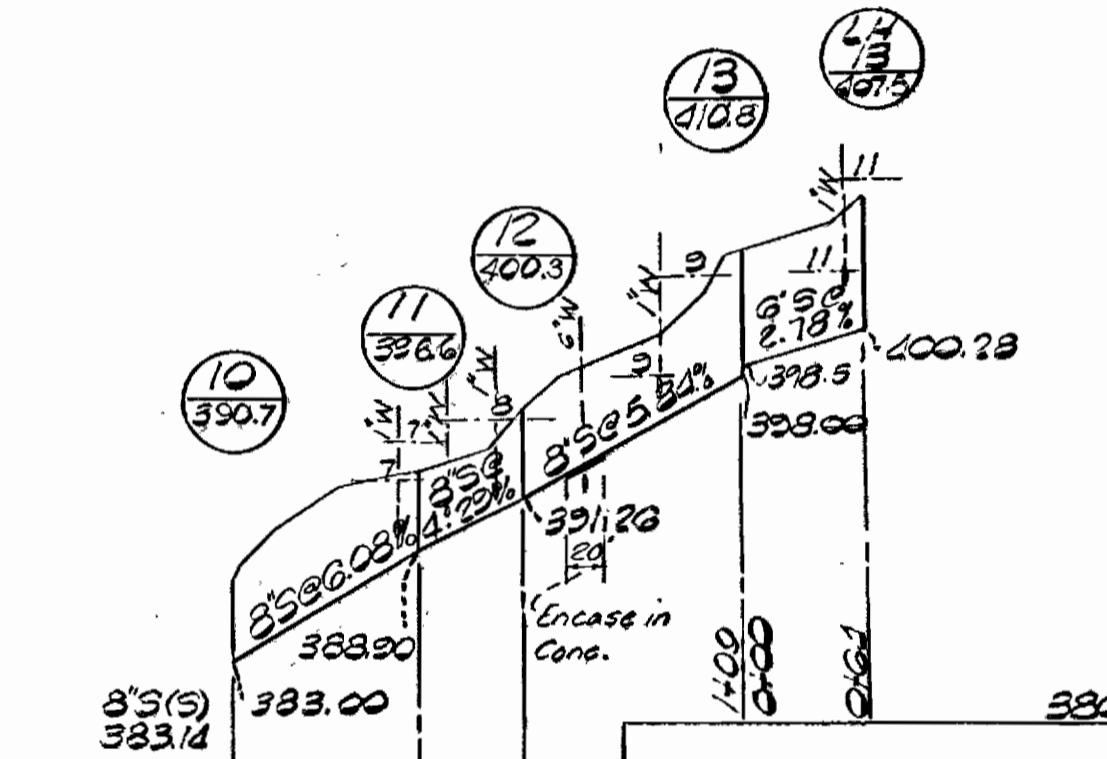
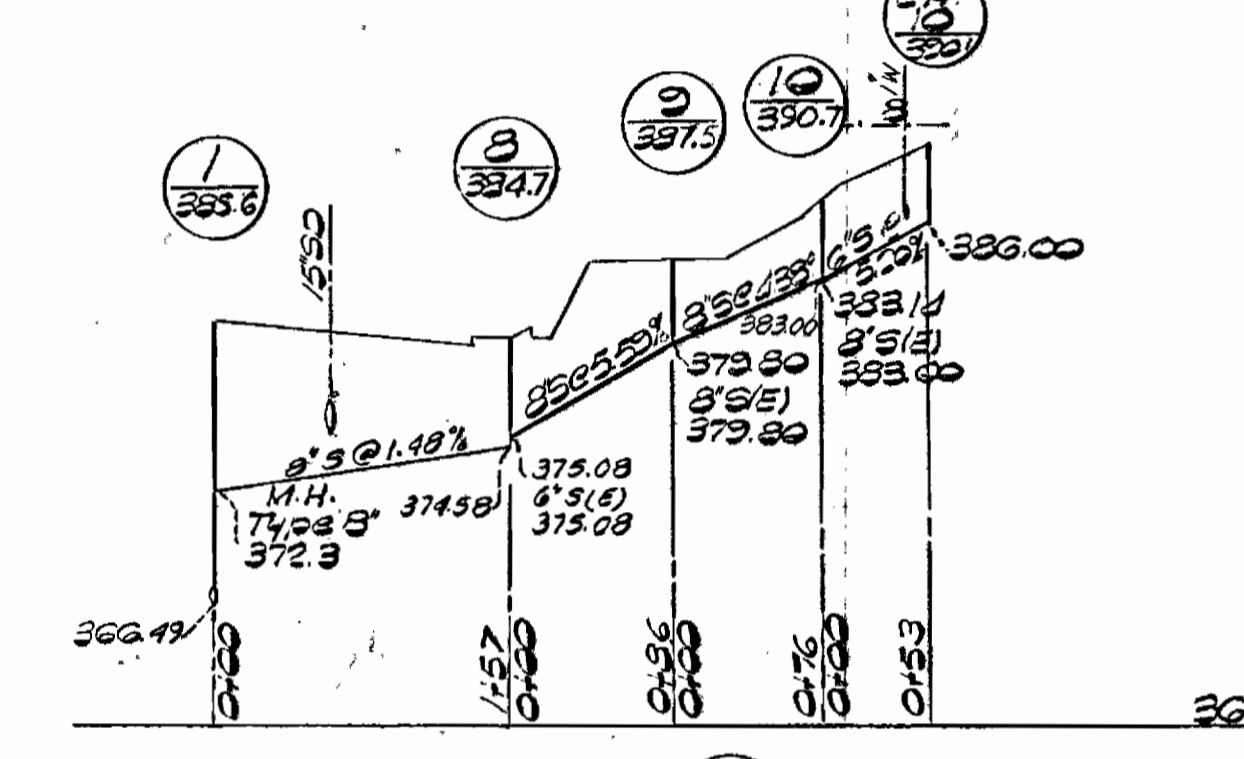
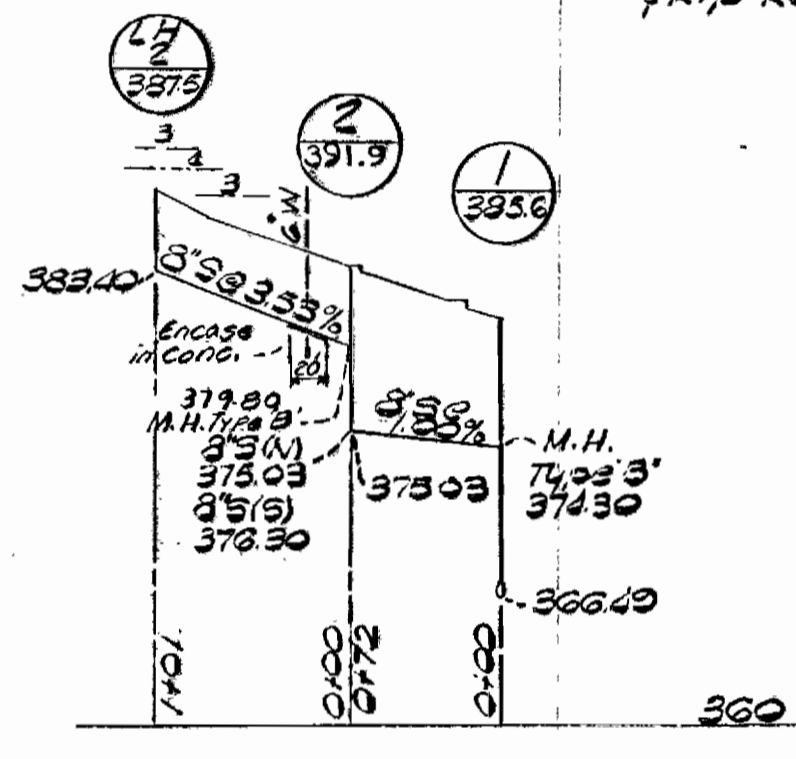
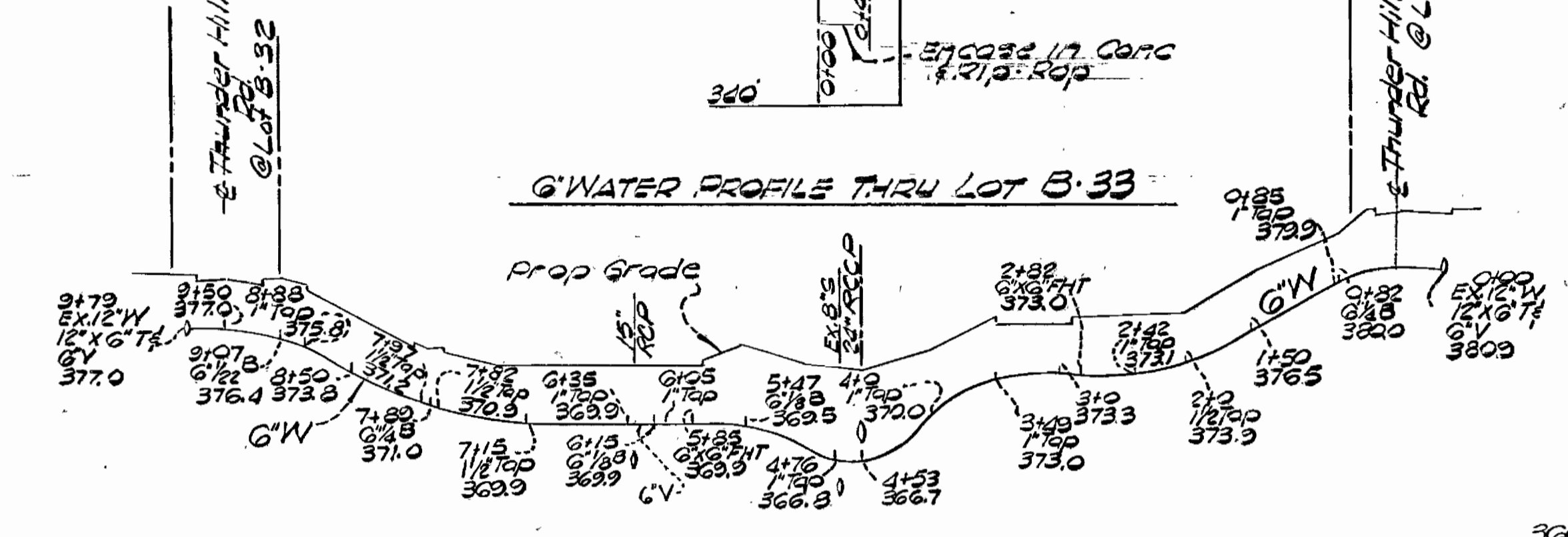
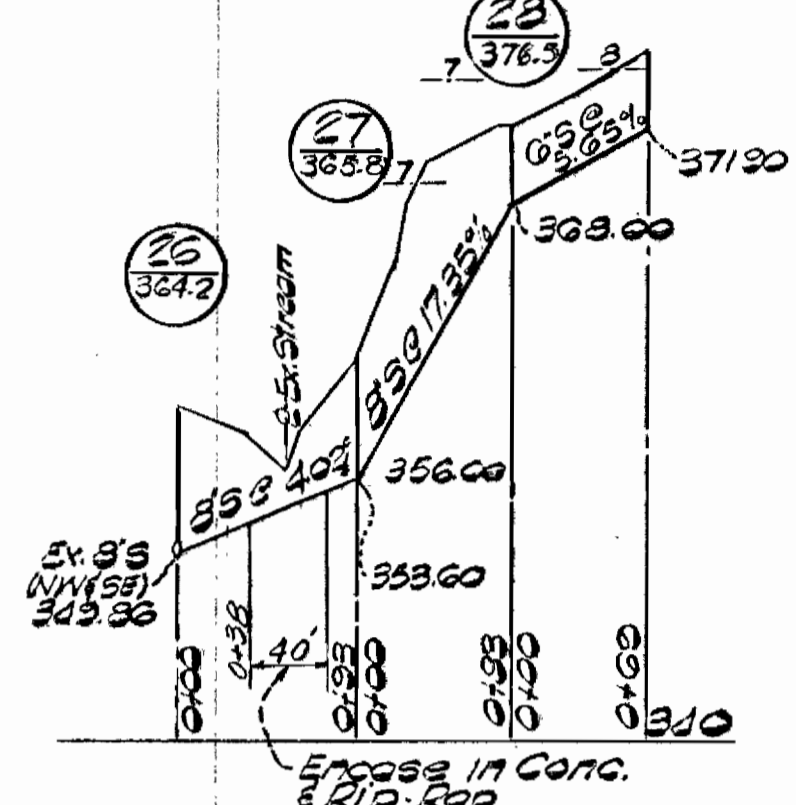
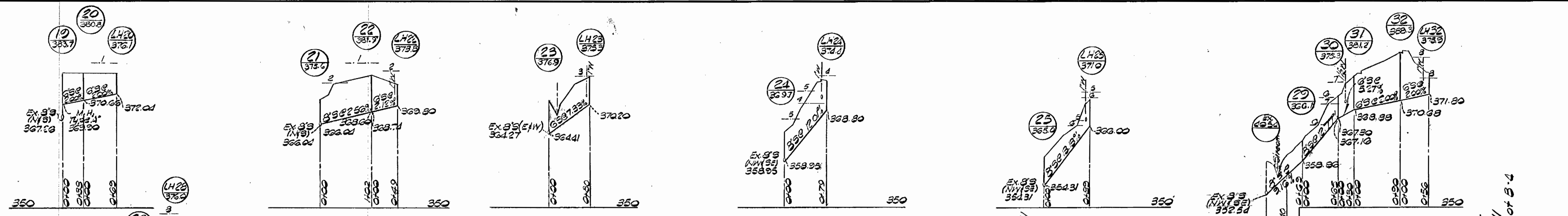
AS-BUILT
(S.H.C.'S)

DRAWING
NO. 24
OF 3

SCALE
1"=50'

DATE

CHIEF-BUREAU OF WATER AND SEWER



QUANTITIES	
ITEM	AMOUNT
1 1/2" WATER	531 LF
2"	106 LF
6"	1914 LF
FIRE HYDRANT	4 EQ.
G' SEWER	1076 LF
8"	2239 LF

NOTE: Solid Lines Shown Above Sewer Lines Indicate Proposed Grade.

PROFILE SCALE
HOR: 1"=100'
VERT: 1"=10'

GREENHORNE & O MARA, INC.
ENGINEERS ARCHITECTS PLANNERS
SURVEYORS
8715 KENILWORTH AVENUE
RIVERDALE, MARYLAND

HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
2-9-73
Date
W. O. Fulbert
Chief Engineer

CONTRACT NO. 2494 DWFS

PROFILES
SEWER & WATER

COLUMBIA VILLAGE OF OAKLAND MILLS
SECTION 4 AREA 1
LOT A-49 THRU LOT A-49 B-33
A RESUBDIVISION OF PAR. A-F

DRAWING NO. 3 OF 3
SCALE SHOWN

As-Built

4782-X