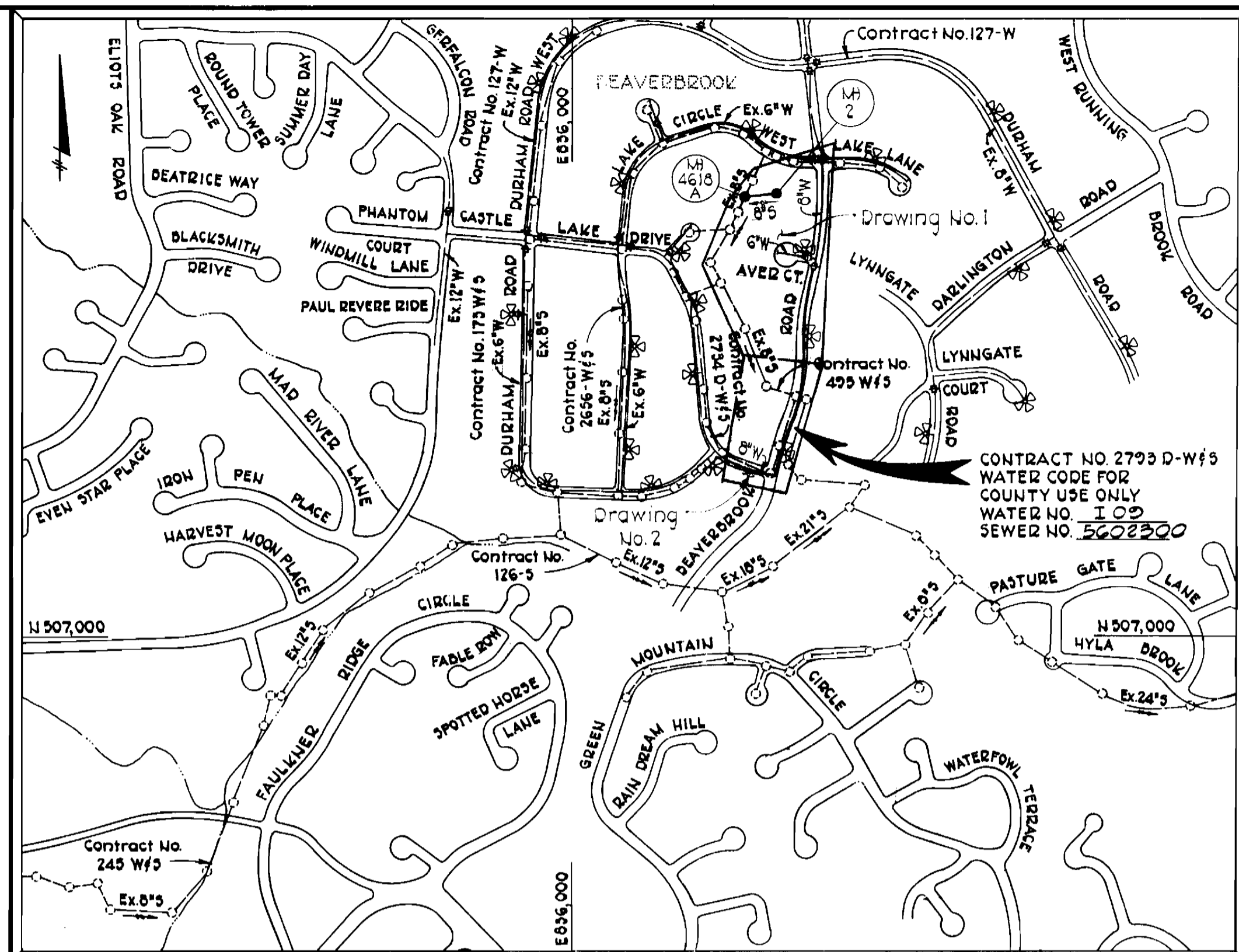
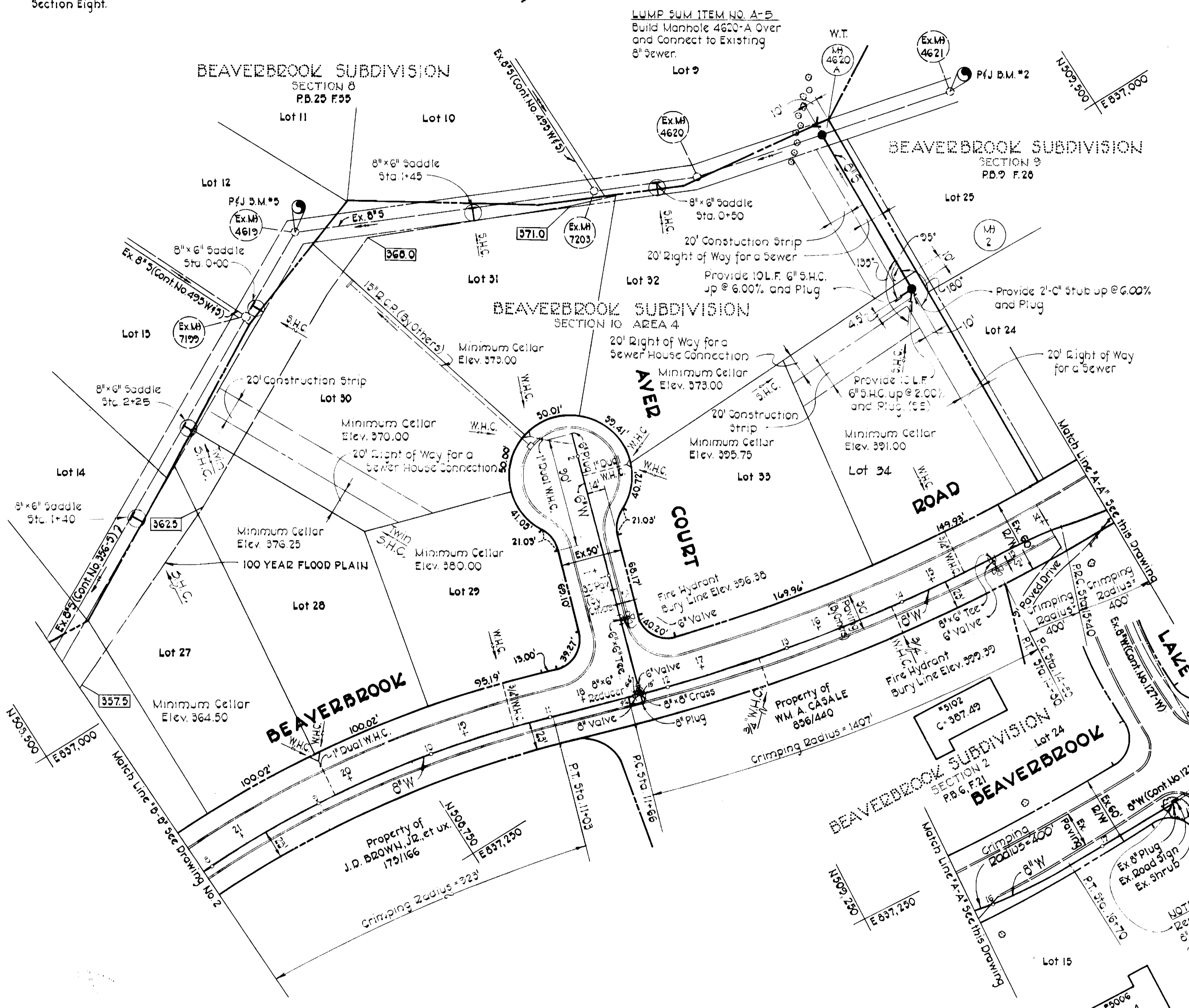


BENCH MARKS

B.M. #2 Elev. 384.22
 + Cut on rim of Sanitary Sewer Manhole #4621 in Lot 29, Beaverbrook Section Nine.
 B.M. #5 Elev. 366.82
 + Cut on rim of Sanitary Sewer Manhole #4619 in Lot 12, Beaverbrook Section Eight.



VICINITY MAP
 Scale: 1" = 600'

GENERAL NOTES

1. Approximate locations 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 the Contractor's operation shall be repaired immediately at the Contractor's expense.
2. All pipe elevations shown are invert elevations.
3. The Contractor shall locate existing utilities well in advance of construction activities.
4. See standard details bound in specifications.
5. Clear all utilities by a minimum of 8 inches. Clear all utility poles by 2'-0" minimum or tunnel-as required. Any costs incurred to the Contractor for tunneling or bracing poles shall be included in the unit price bid for excavation.
6. The Contractor shall provide a pipe joint in all sewer mains within 2'-0" of exterior manhole walls.
7. The sewer main shall be V.C.P.X., C.S.P.X. or A.C.P. Class 2400, unless otherwise noted.
8. All manholes shall be 4'-0" inside diameter, unless otherwise noted.
9. Buttress or anchor all water main fittings with concrete. All valves shall be strapped to tees in accordance with standard details.
10. All water mains to have a minimum of 3.5' cover unless otherwise noted.
11. All fire hydrants shall be strapped to the tee and shall be buttressed with concrete in accordance with standard details. Cost of strapping fire hydrants and valves to be included in the unit price bid for furnishing and installing fire hydrants. Soil around the fire hydrant to be compacted in accordance with Section 5-15 of the Standard Specifications.
12. Bury line elevations on fire hydrants shall be set to the elevations shown on the plan.
13. All horizontal controls are based on Maryland State Coordinates.
14. All vertical controls are based on Maryland State Datum.
15. 375.0 Denotes elevation of 100 year flood level.
16. Watertight manhole frame and cover to be used where indicated on drawings Standard Detail S-12 (RCR-83A). Where watertight manhole frame and cover is used, set top of frame 1' - 6" above finished grade.

QUANTITIES			
ITEM	PROPOSED	AS BUILT	SUPPLIER
8" Water	1,285 L.F.	1,939.5 L.F.	GRIFFIN
6" Water	260 L.F.	244 L.F.	GRIFFIN
Fire Hydrants	4 each	4	DRESSER M&H
8" Sewer	125 L.F.	147 L.F.	J&M
6" S	142 L.F.	140 L.F.	J&M
Manholes	18 V.F.	16 V.F.	
3/4" W.H.C.	385 L.F.	299 L.F.	CAPITOL
1" W.H.C.	185 L.F.	166.5 L.F.	CAPITOL

CONTRACT NO. 2793-D-W&S
 BEAVERBROOK SUBDIVISION
 SECTION 10 - AREA 4
 WATER AND SEWER MAIN EXTENSION

PURDUM & JESCHKE
 ENGINEERS
 1023 N. CALVERT ST.
 BALTIMORE, MARYLAND

DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND
 Richard E. Freudenberg, Director of Public Works
 DATE: 6/6/78

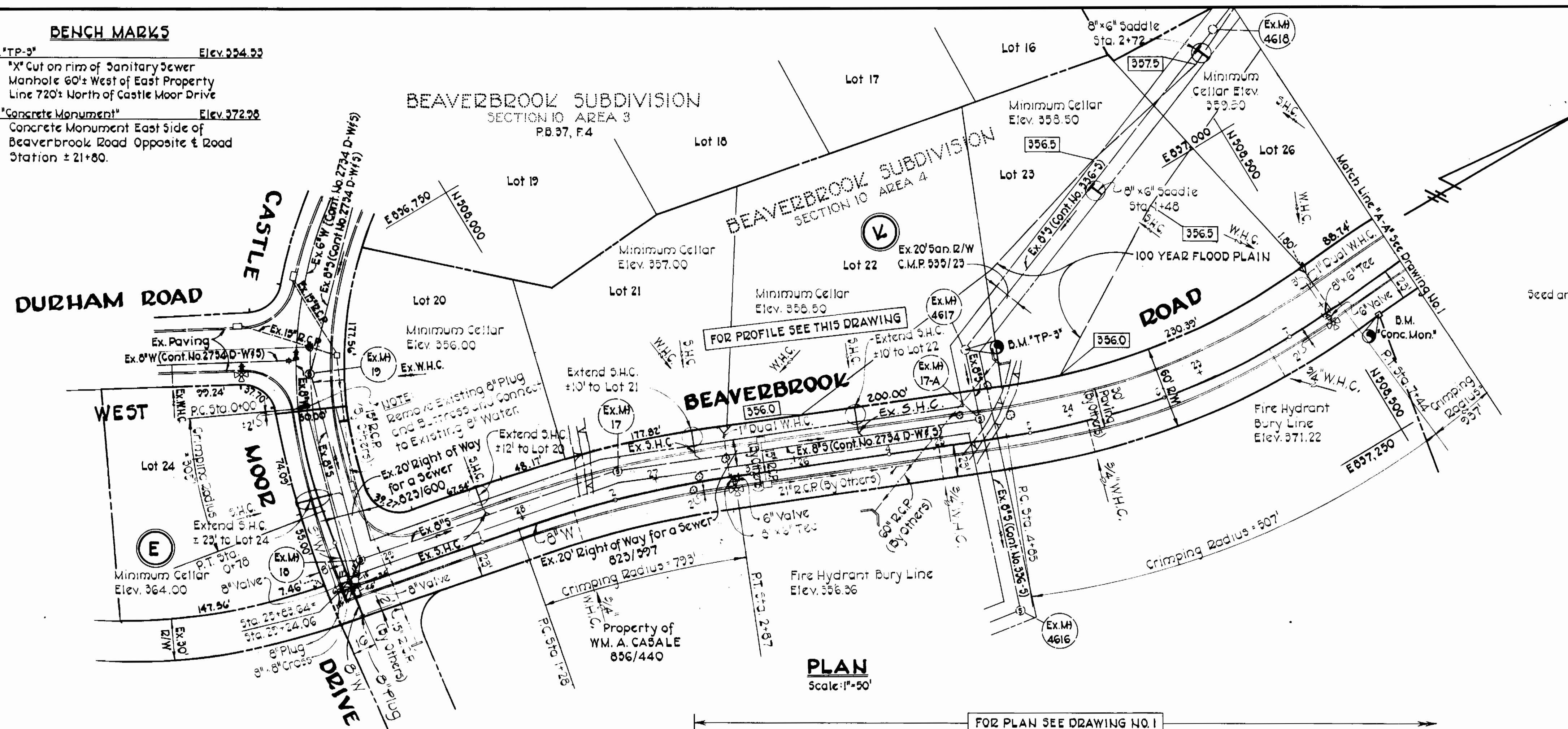
CONTRACT NO. 2793-D-W&S

PLAN OF WATER AND SEWER MAINS

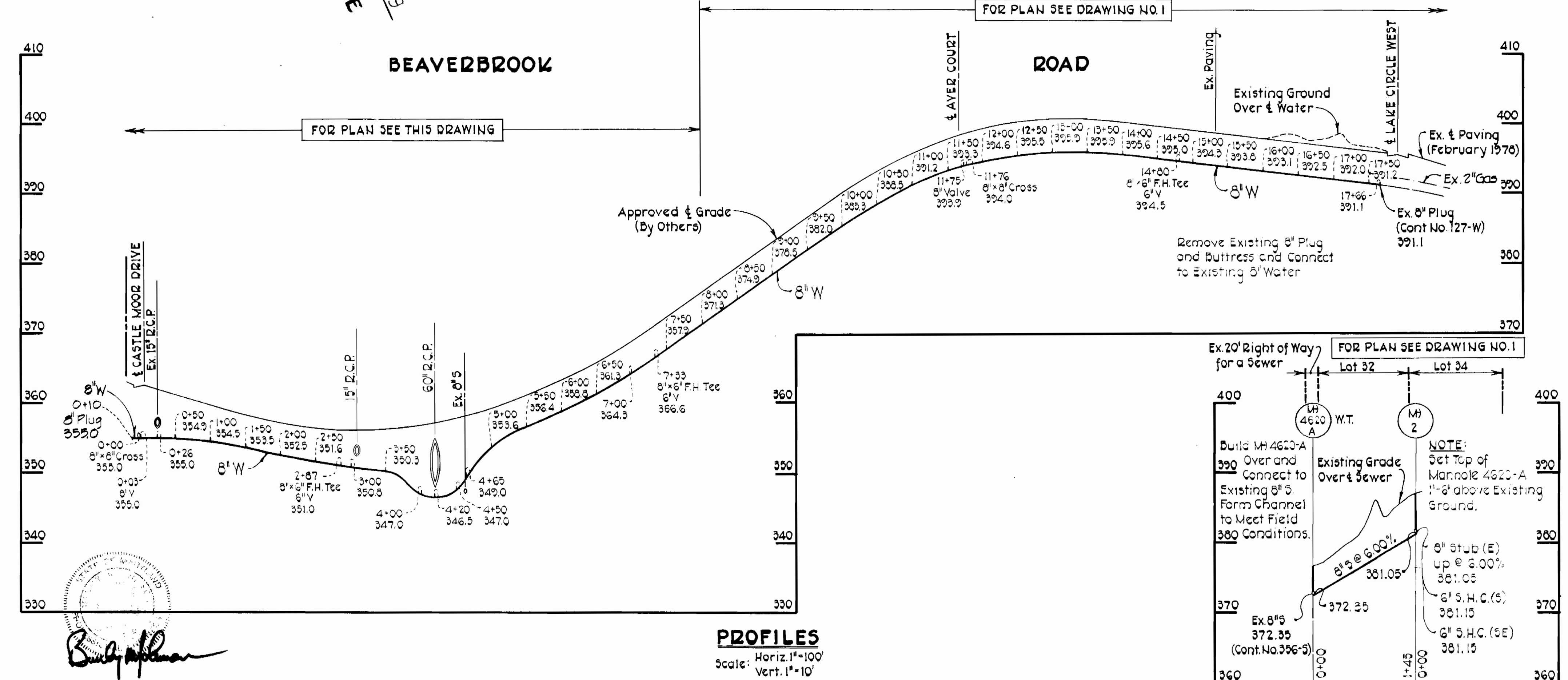
BEAVERBROOK SUBDIVISION
 SECTION 10 - AREA 4
 ELECTION DISTRICT CLARKVILLE NO 5

DRAWING NO. 1 OF 2
 SCALE 1" = 50'
 Designed: RDB
 Drafted: ARZ
 Checked: TAF

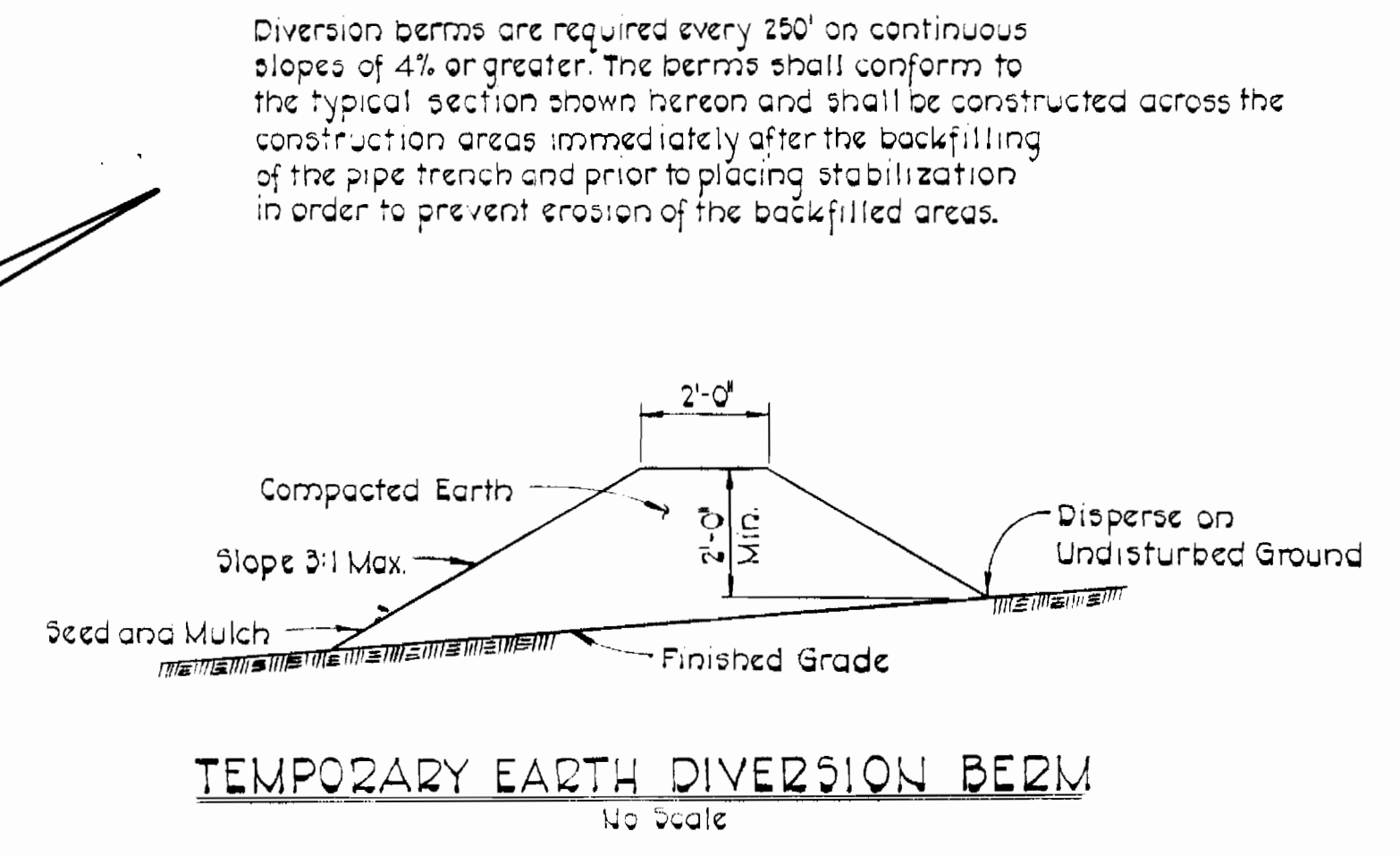
BENCH MARKS
 D.M. "TP-3" Elev. 354.53
 "X" Cut on rim of Sanitary Sewer Manhole 60' West of East Property Line 720' North of Castle Moor Drive
 D.M. "Concrete Monument" Elev. 372.98
 Concrete Monument East Side of Beaverbrook Road Opposite E Road Station ± 21+80.



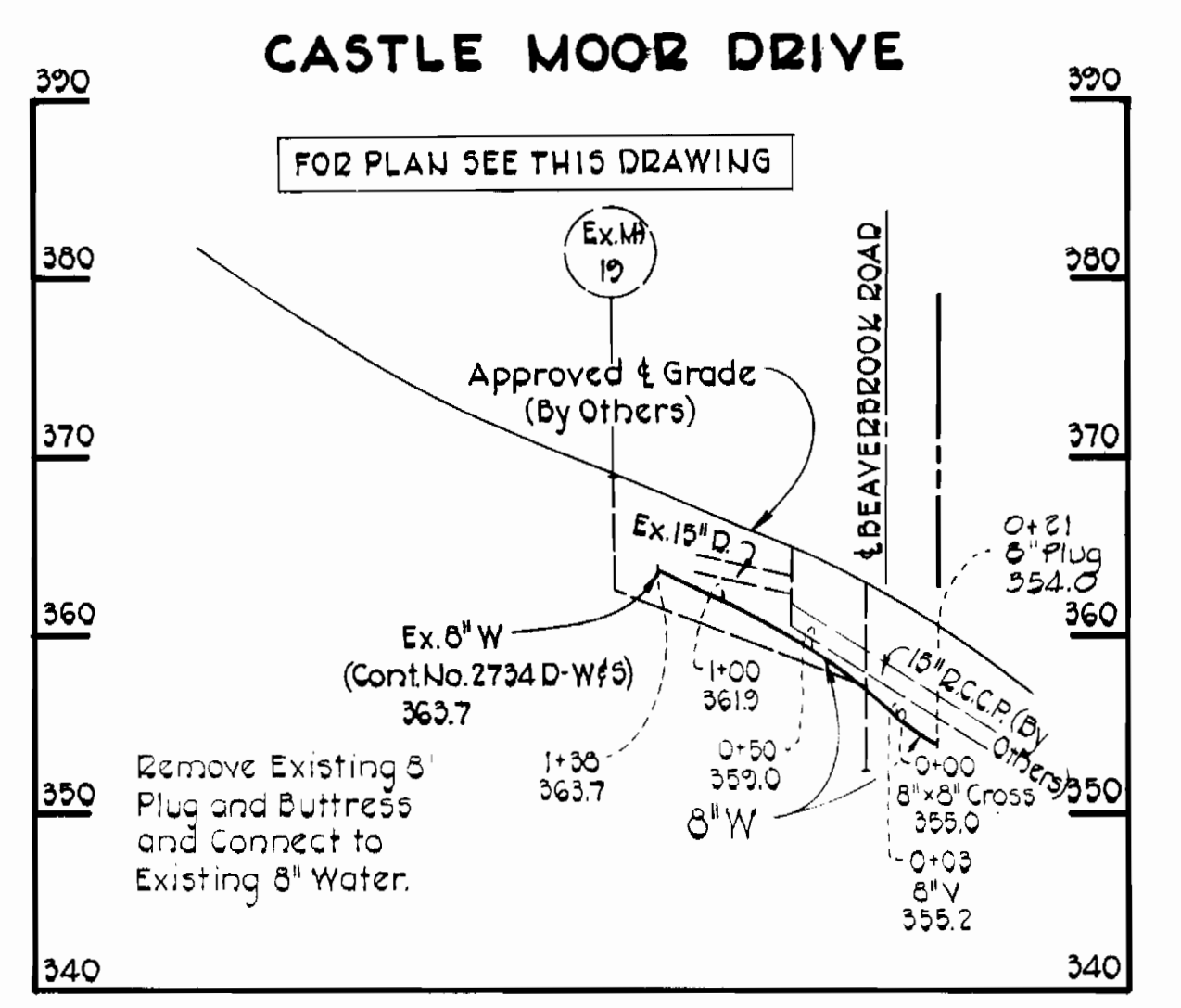
PLAN
 Scale: 1"=50'



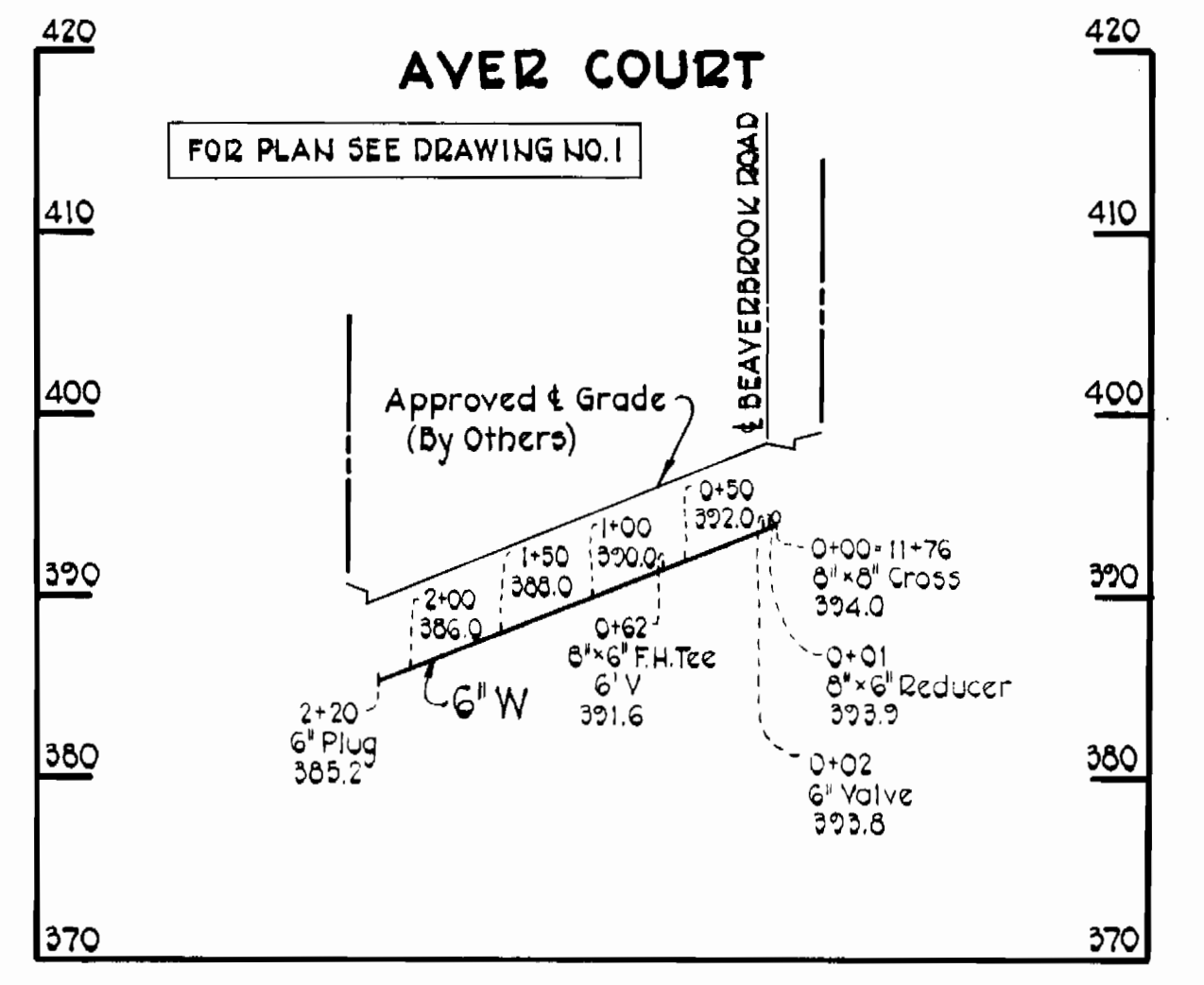
PROFILES
 Scale: Horiz. 1"=100'
 Vert. 1"=10'



TEMPORARY EARTH DIVERSION BERM
 No Scale



CASTLE MOOR DRIVE
 FOR PLAN SEE THIS DRAWING



AVER COURT
 FOR PLAN SEE DRAWING NO. 1

CONTRACT NO. 2793-D-W & S
 BEAVERBROOK SUBDIVISION
 SECTION 10 - AREA 4
 WATER AND SEWER MAIN EXTENSION

PURDUM & JESCHKE ENGINEERS 1023 N. CALVERT ST. BALTIMORE, MARYLAND	DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND Richard E. Sreudenberger, 6/6/78 DIRECTOR OF PUBLIC WORKS DATE	CONTRACT NO. 2793-D-W&S	PLAN, PROFILES, AND DETAILS WATER AND SEWER MAINS	BEAVERBROOK SUBDIVISION SECTION 10 - AREA 4 ELECTION DISTRICT CLARKSVILLE NO. 5	DRAWING NO. 2 OF 2 SCALE As Shown Designed: RDB Drafted: ARZ Checked: TAF
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