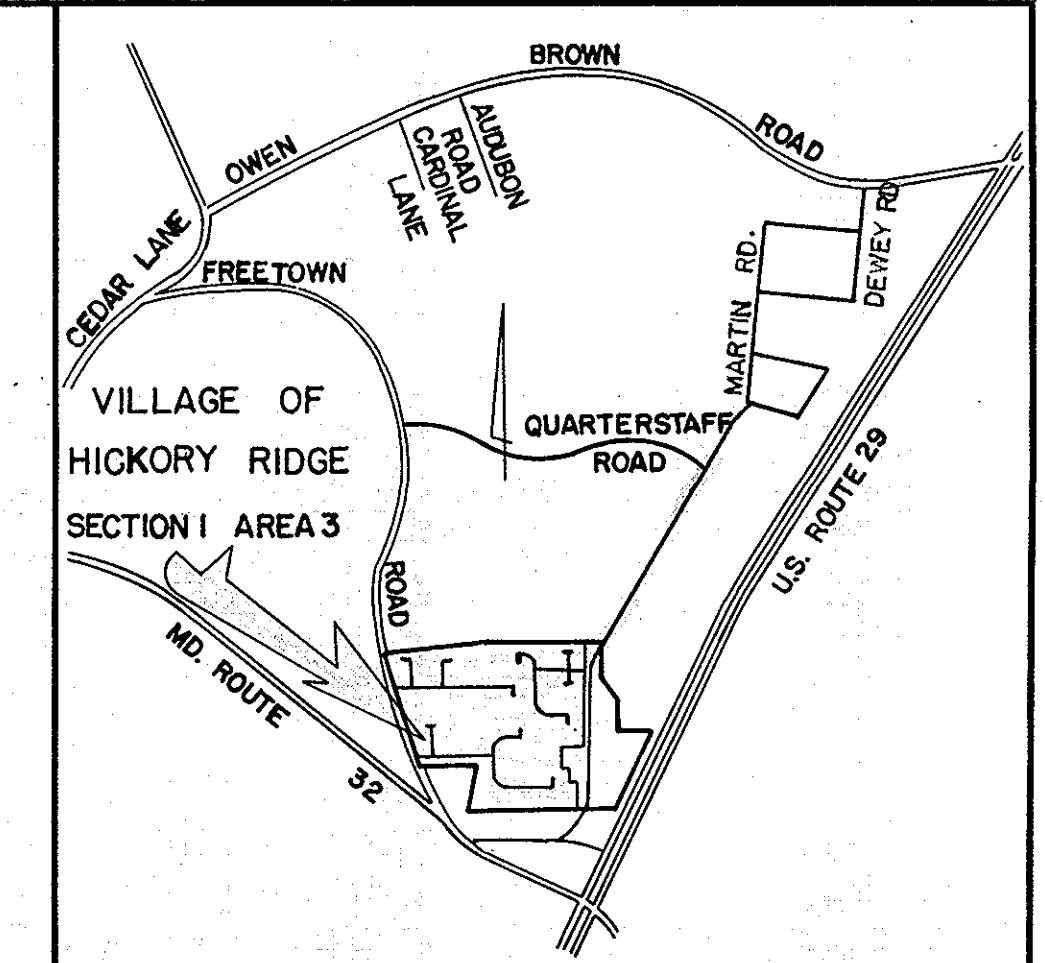
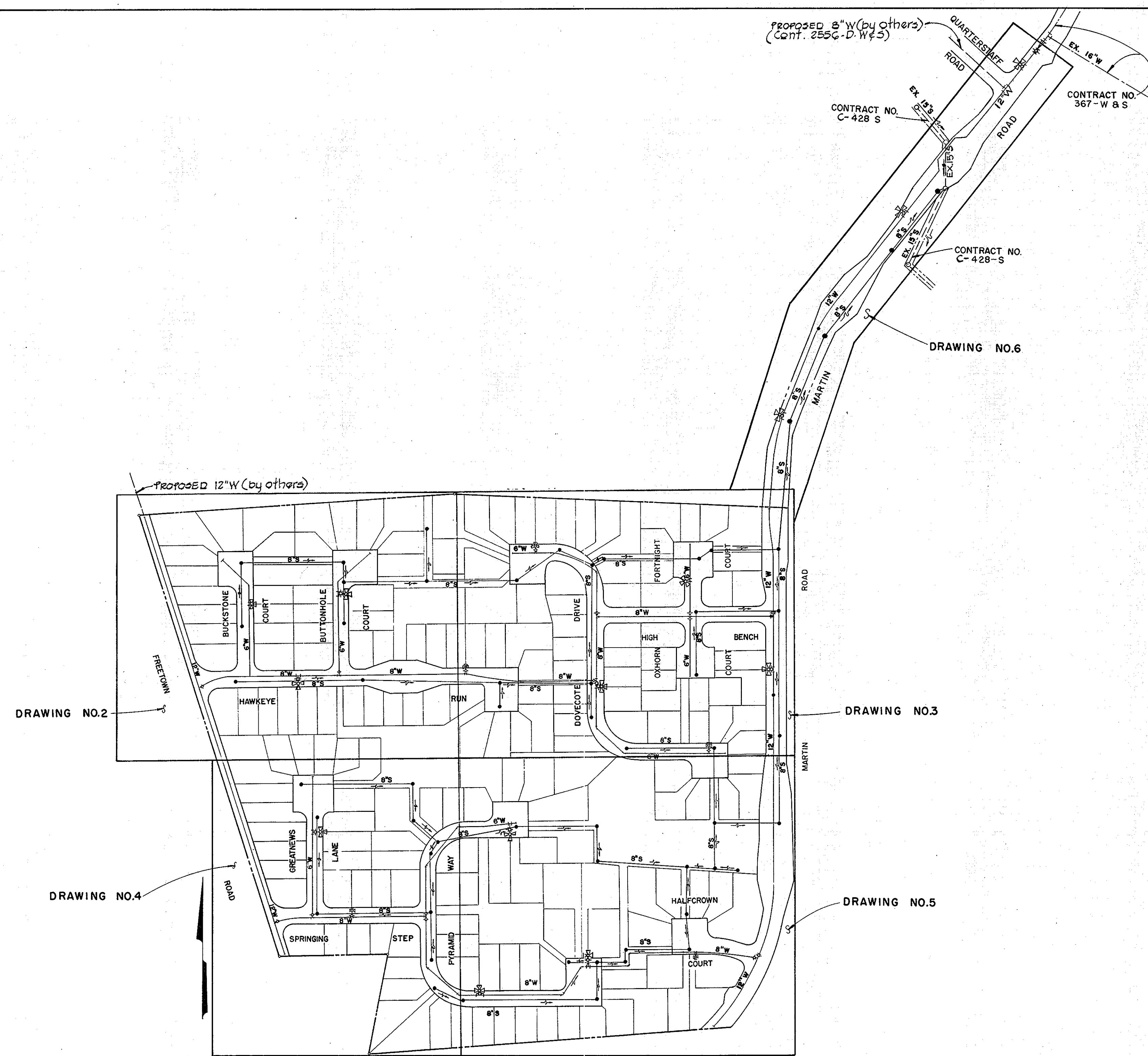


GENERAL NOTES

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 contractor's operations shall be repaired immediately at the contractor's expense.
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 the vicinity of utilities.
4. See standard details bound in specifications.
5. Buttress or anchor all water main fittings with concrete.
6. Clear all utilities by a minimum of 6 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 unit prices bid for excavation.
7. The contractor shall provide a pipe joint in all sewer mains within 2'-0" of exterior manhole walls.
8. All manholes shall be 4'-0" inside diameter.
9. All water mains to be Cast Iron Pipe and have a minimum of 3.5' cover.
10. 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.
11. Bury line elevations on fire hydrants shall be set to the elevations shown on the Plan.
12. All horizontal and vertical controls are based on the Maryland State Grid System.



VICINITY MAP
SCALE IN MILES

QUANTITIES	
12" WATER	4780 LF
8" WATER	3700 LF
6" WATER	3490 LF
8" SEWER	11,115 LF
FIRE HYDRANT	10

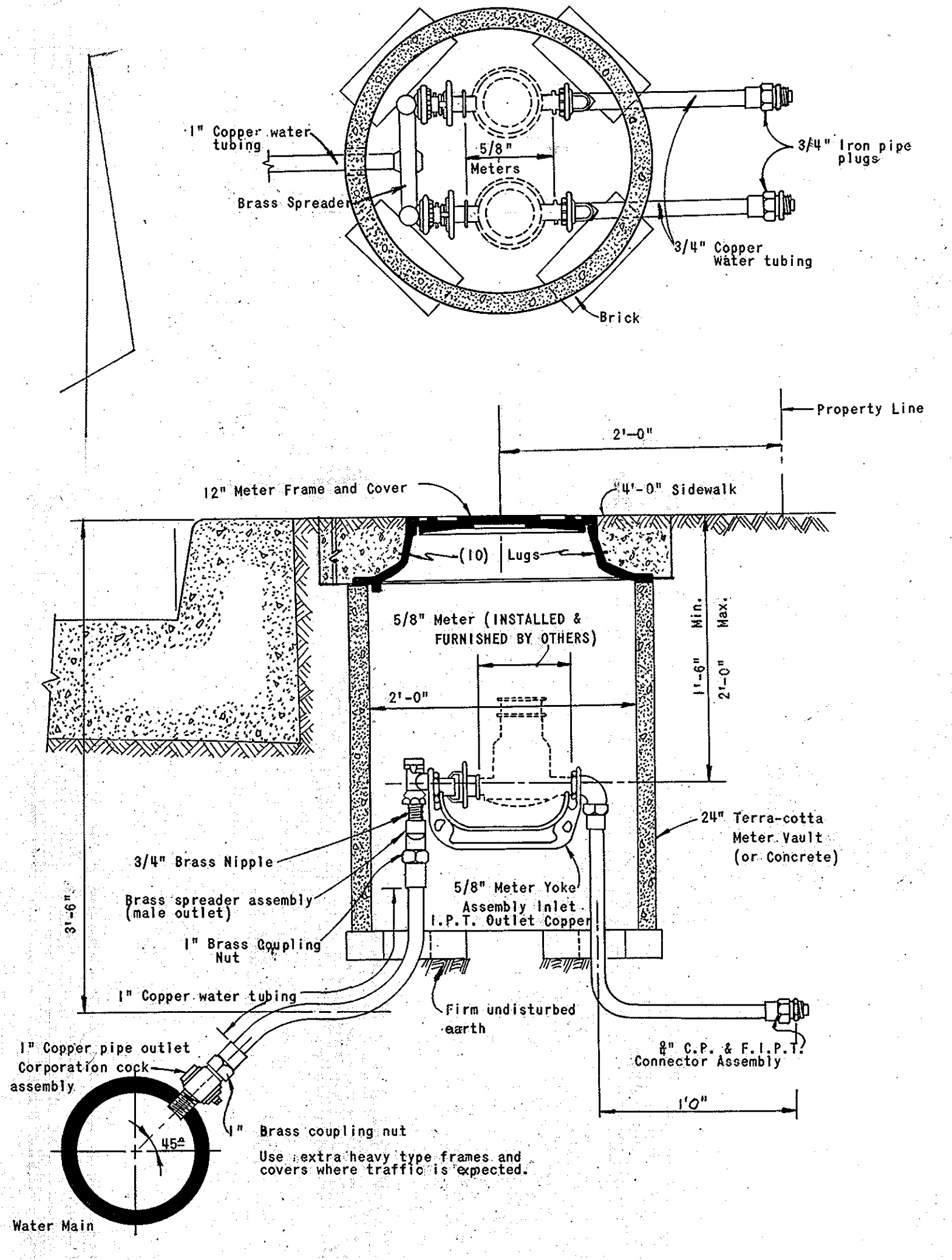
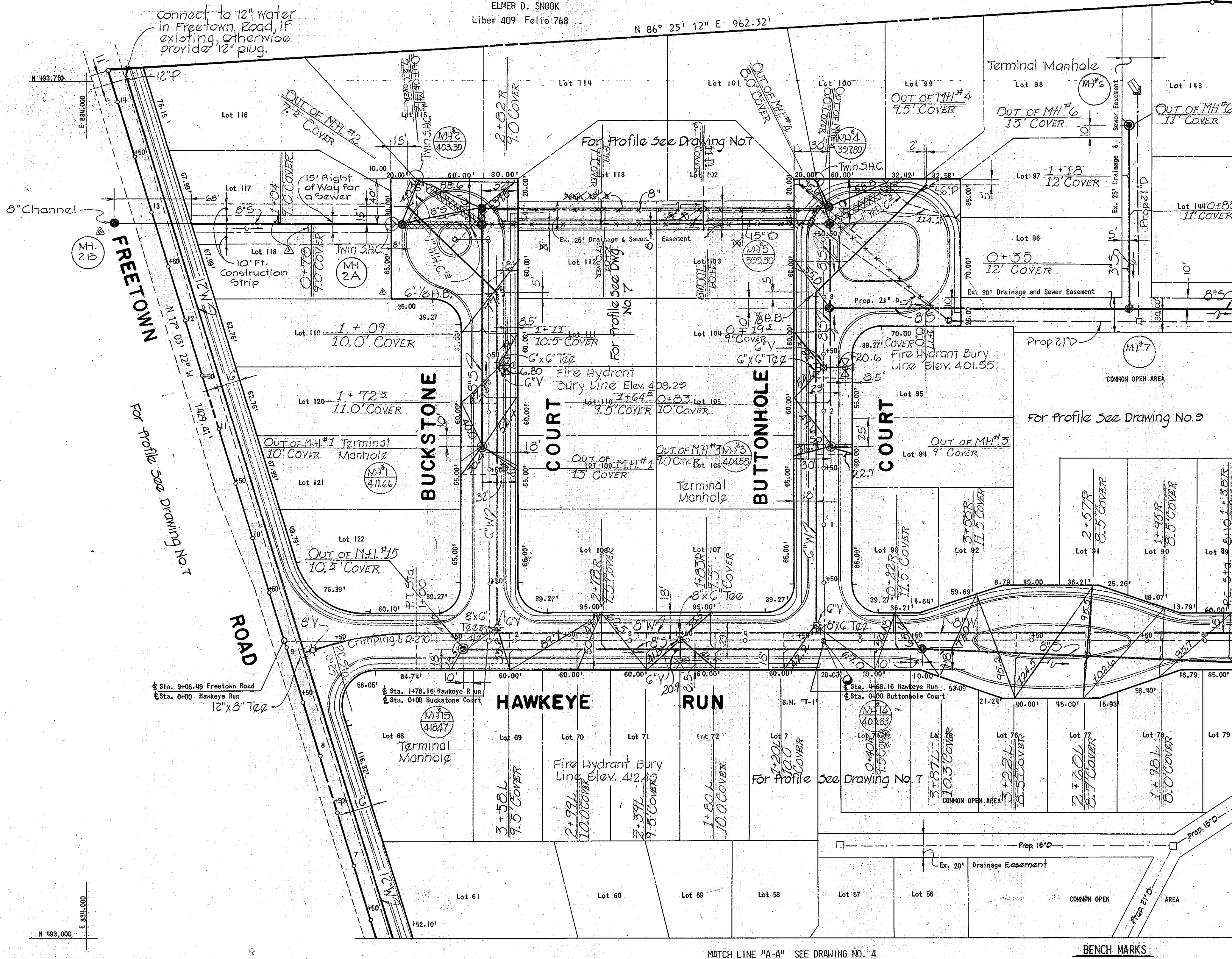


CONTRACT NO. 2553-D-W&S
VILLAGE OF HICKORY RIDGE-WATER & SEWER
DEPARTMENT OF PUBLIC WORKS - HOWARD COUNTY, MARYLAND

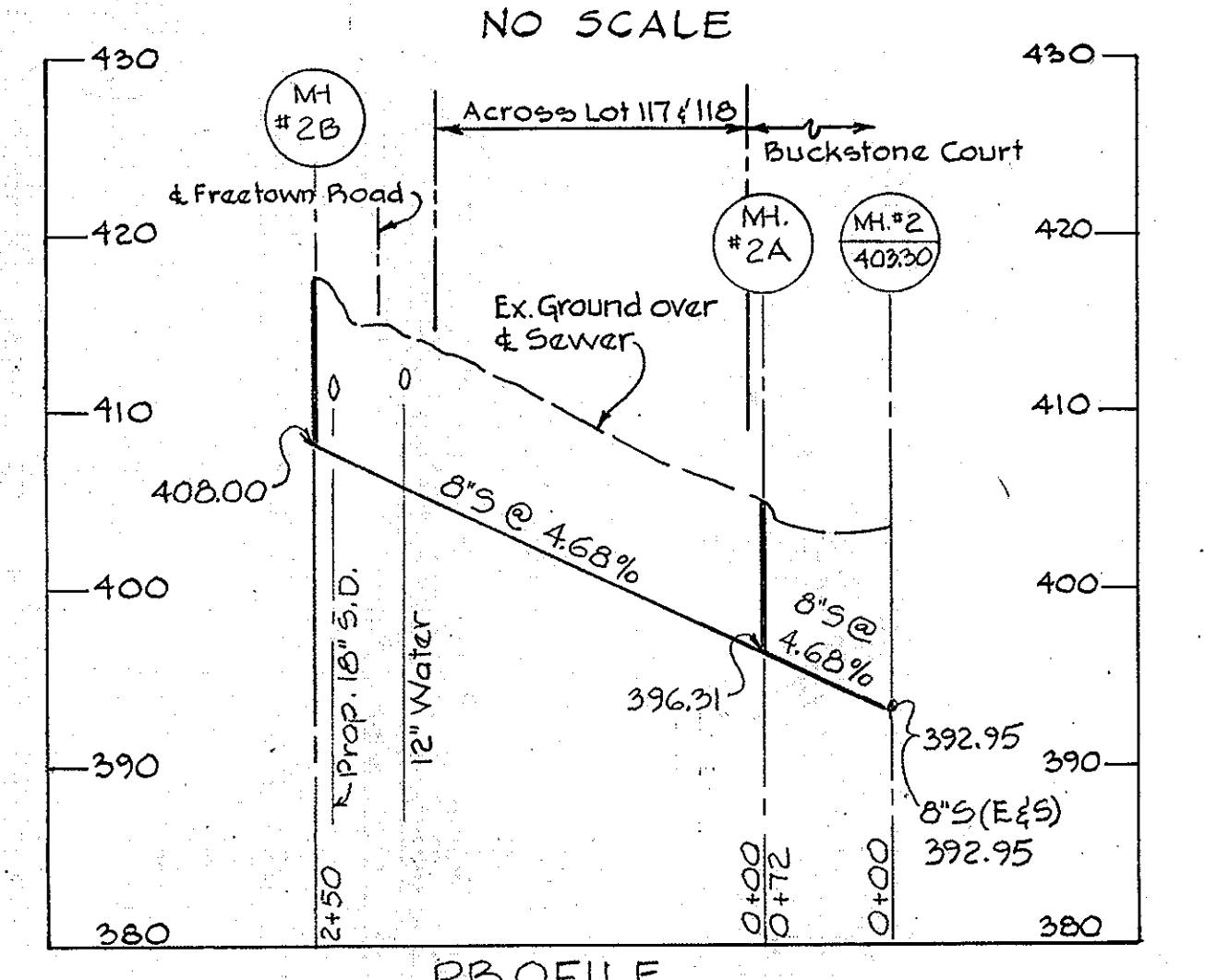
Contract No. 2553-D-W&S
 Village of Hickory Ridge
 Section I Area 3
 Water and Sewer Extension

PURDUM & JESCHKE ENGINEERS 1023 N. CALVERT ST. BALTIMORE, MARYLAND	DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND DATE: 8-6-73 W.O. Filbert CHIEF-BUREAU OF ENGINEERING	CONTRACT NO. 2553-D-W&S	LOCATION MAP	COLUMBIA VILLAGE OF HICKORY RIDGE ELECTION DISTRICT - CLARKSVILLE - NO.5	DRAWING NO. 1 OF 10	SCALE #200'	DESIGNED:TAF DRAFTED:LHC CHECKED:TAF
					AS BUILT Sept. 27, 1974	AUGUST 7, 1973	

Property of
ELMER D. SNOOK
Liber 409 Folio 768
N 86° 25' 12" E 962.32'



**3/4" METERED DOMESTIC SERVICE
TWIN WATER HOUSE CONNECTION**



PROFILE
HORIZ: 1" = 100'
VERT: 1" = 10'

REV.	DATE	REMARKS	REV.	DATE	REMARKS	REV.	DATE	REMARKS
Δ	SEP 27, 74		Δ	JAN 24, 74	Relocate S.H.C.'s for Lots 117 & 118 to stations 0+80 and 1+05 between MH's #2A & #2B as shown. Construct MH's #2-A & #2-B as shown.	Δ	JAN 14, 74	MH #5 to MH #4 extended 15 ft., MH #1 to MH #2 extended 15 feet, MH #2 to MH #4 moved 15 ft. North 15 ft. For profile see sheet No. 7.

Contract No. 2553-D-W/S
Village of Hickory Ridge
Section 1 Area 3
Water and Sewer Extension



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

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND
DATE: 8-6-73
CHIEF BUREAU OF ENGINEERING

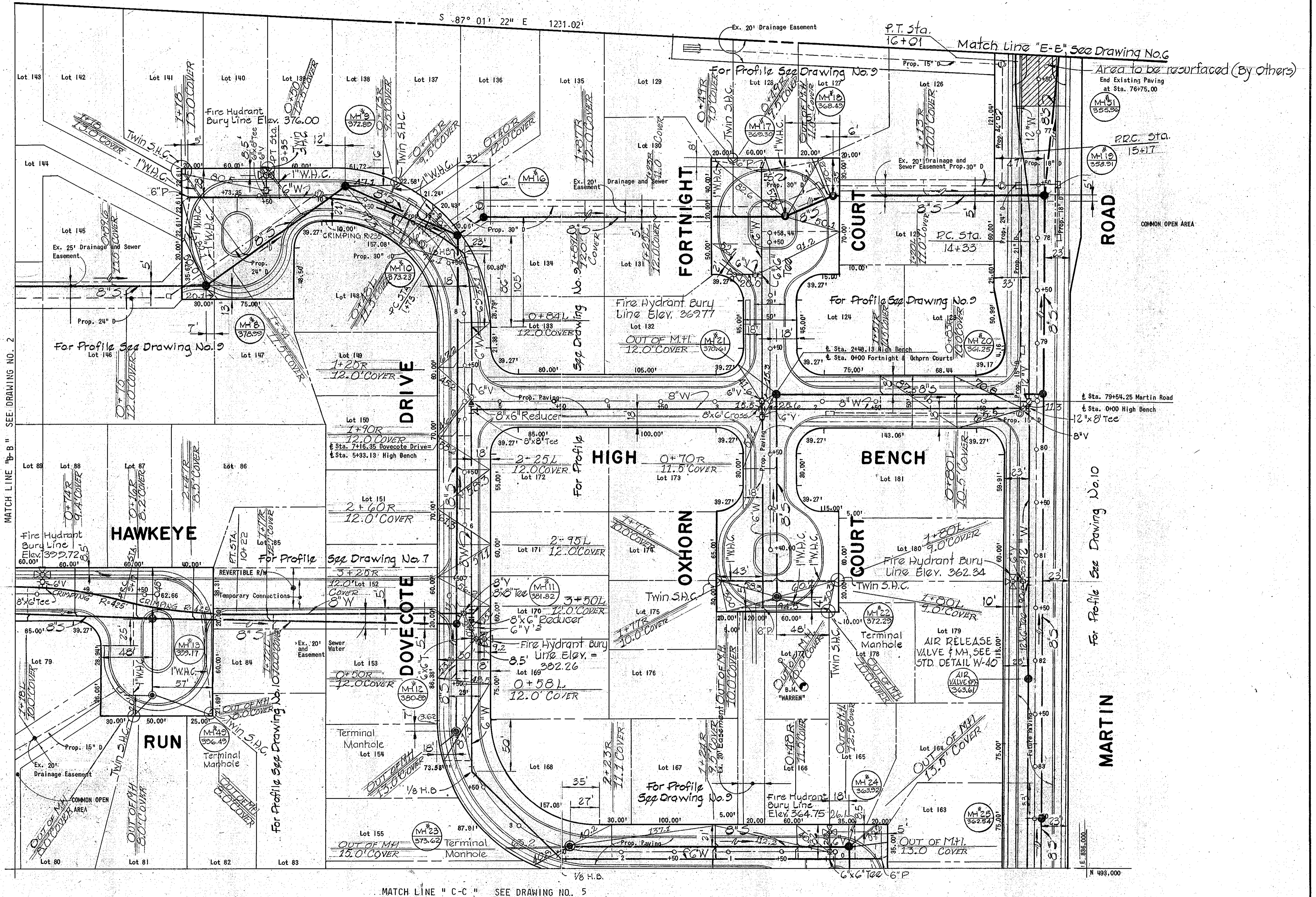
CONTRACT NO. 2553-D-W/S
PLAN OF WATER AND SEWER MAINS

COLUMBIA
VILLAGE OF HICKORY RIDGE
ELECTION DISTRICT - CLARKSVILLE - NO. 5

DRAWING NO. 2 OF 10
SCALE: 1" = 50'
DESIGNED: TAF
DRAFTED: LHC
CHECKED: TAF

Property of
ELMER D. SNOOK
Liber 409 Folio 768

E 884,750
N 493,750



BENCH MARKS

BM "WARREN" Elev. 371.69
Iron Pipe Set at 237'± Right of Centerline
Road Station 82+00 Martin Road.
BM "T-1" Elev. 408.11
Hub Set at Centerline Road Equality Station
4+68.16 Hawk Eye Run.



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

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND
8-6-73 DATE
W.D. Falwell CHIEF BUREAU OF ENGINEERING

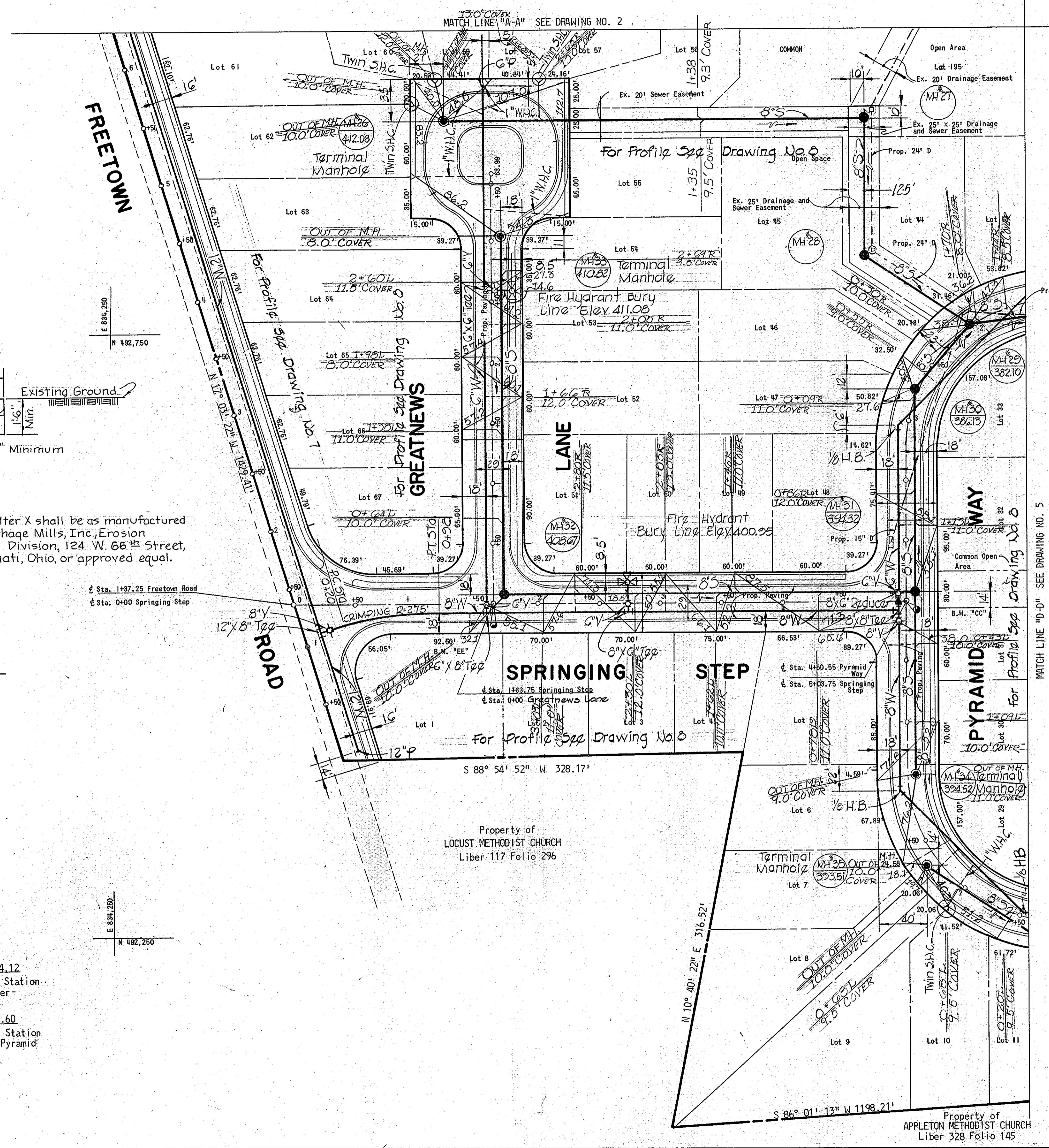
CONTRACT NO. 2553-D-WES

PLAN OF
WATER AND SEWER MAINS

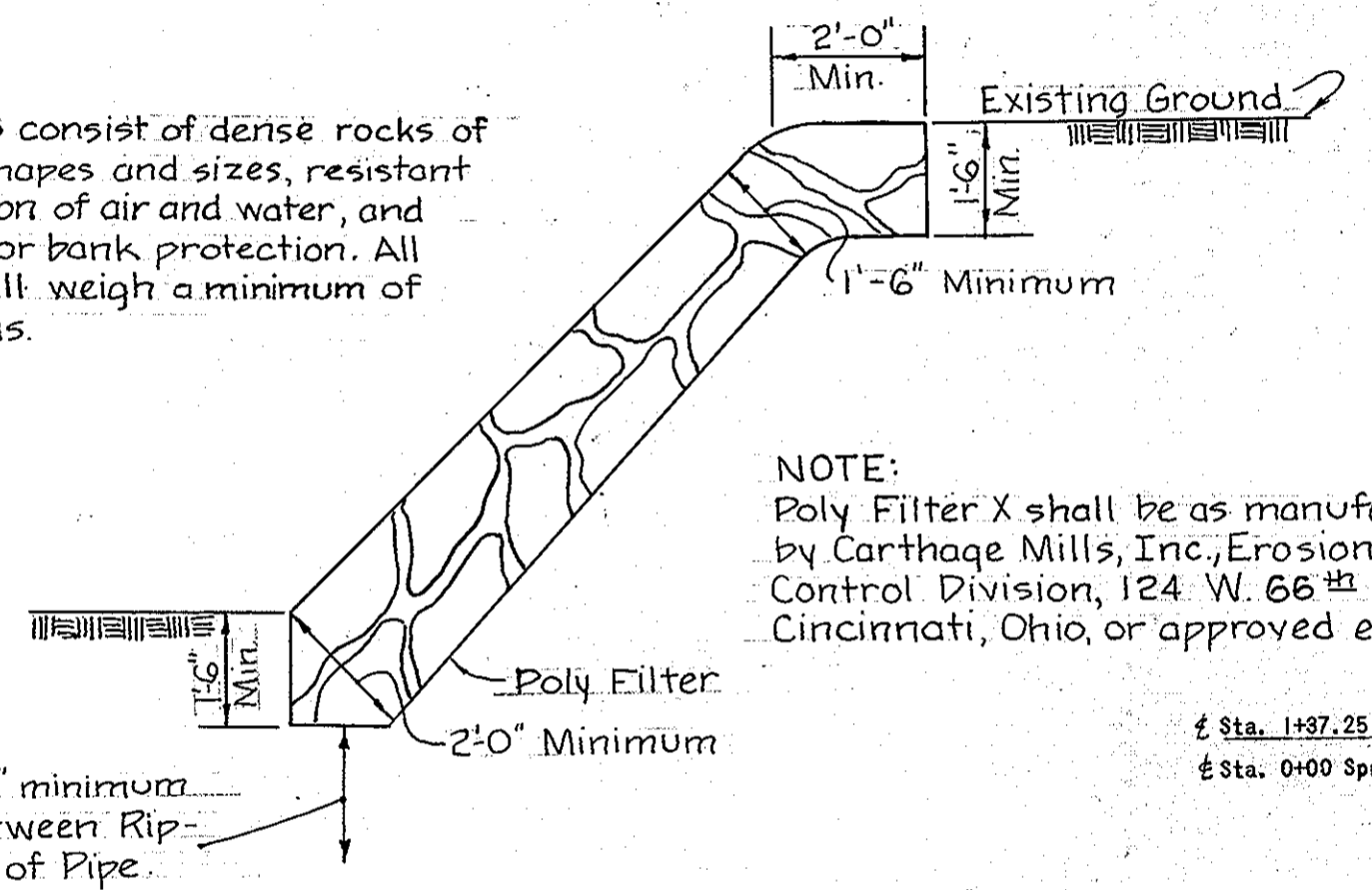
COLUMBIA
VILLAGE OF HICKORY RIDGE
ELECTION DISTRICT - CLARKSVILLE NO. 5

DRAWING NO. 3 OF 10	SCALE 1" = 50'	Designed: TAF
		Drafted: LHC
		Checked: TAF

Contract No. 2553-D-WES
Village of Hickory Ridge
Section 1 Area 3
Water and Sewer Extension



Rip-Rap to consist of dense rocks of random shapes and sizes, resistant to the action of air and water, and suitable for bank protection. All rocks shall weigh a minimum of 150 pounds.

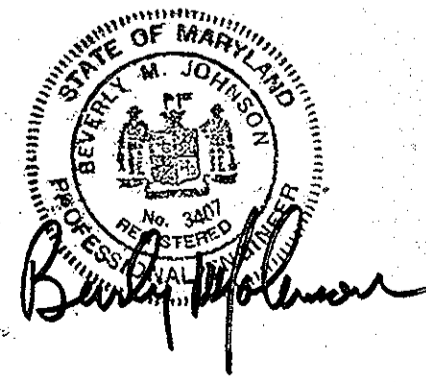


RIP-RAP DETAIL
Scale: 3/8" = 1'-0"

NOTE:
Poly Filter X shall be as manufactured by Carthage Mills, Inc., Erosion Control Division, 124 W. 66th Street, Cincinnati, Ohio, or approved equal.

BENCH MARKS

- B.M. "EE" Elev. 404.12
Hub set at Centerline Road Equality Station 1+63.75 Springing Step and 0+00 Water wheel Court.
- B.M. "CC" Elev. 391.60
Hub set at Centerline Road Equality Station 5+03.75 Springing Step and 4+50.55 Pyramid Way.



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

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND
8-6-73 DATE
W. O. Falwell
CHIEF BUREAU OF ENGINEERING

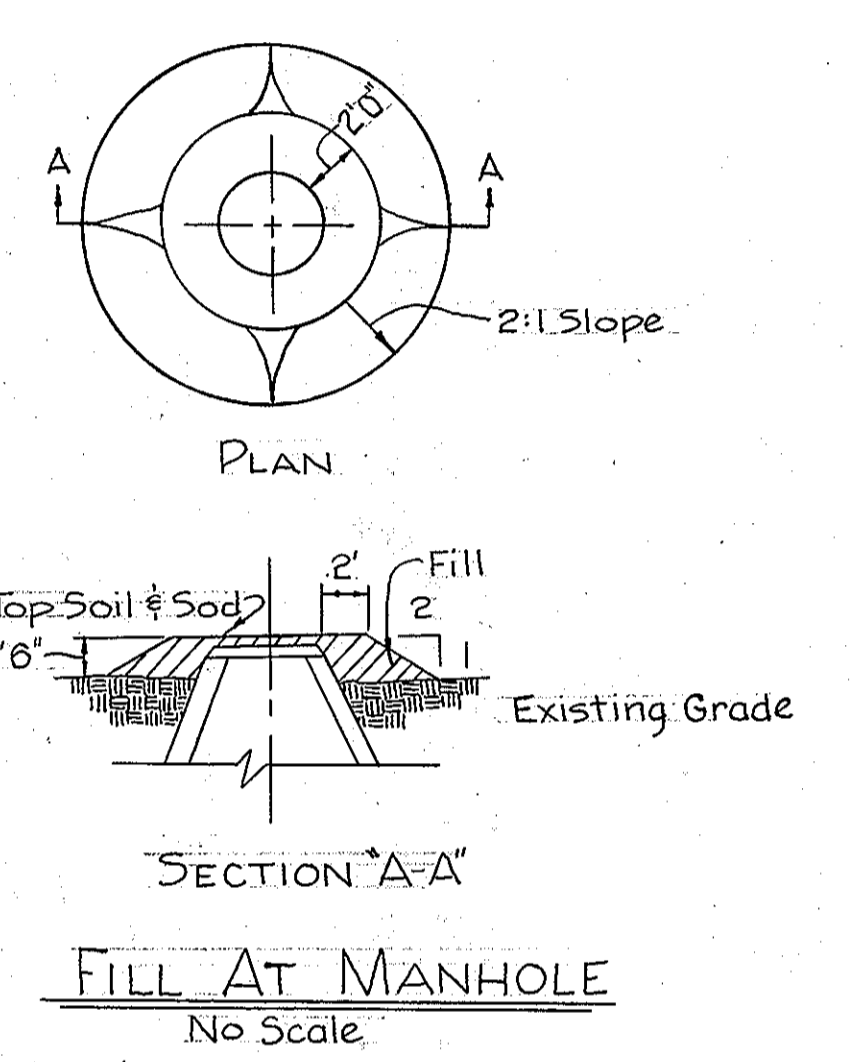
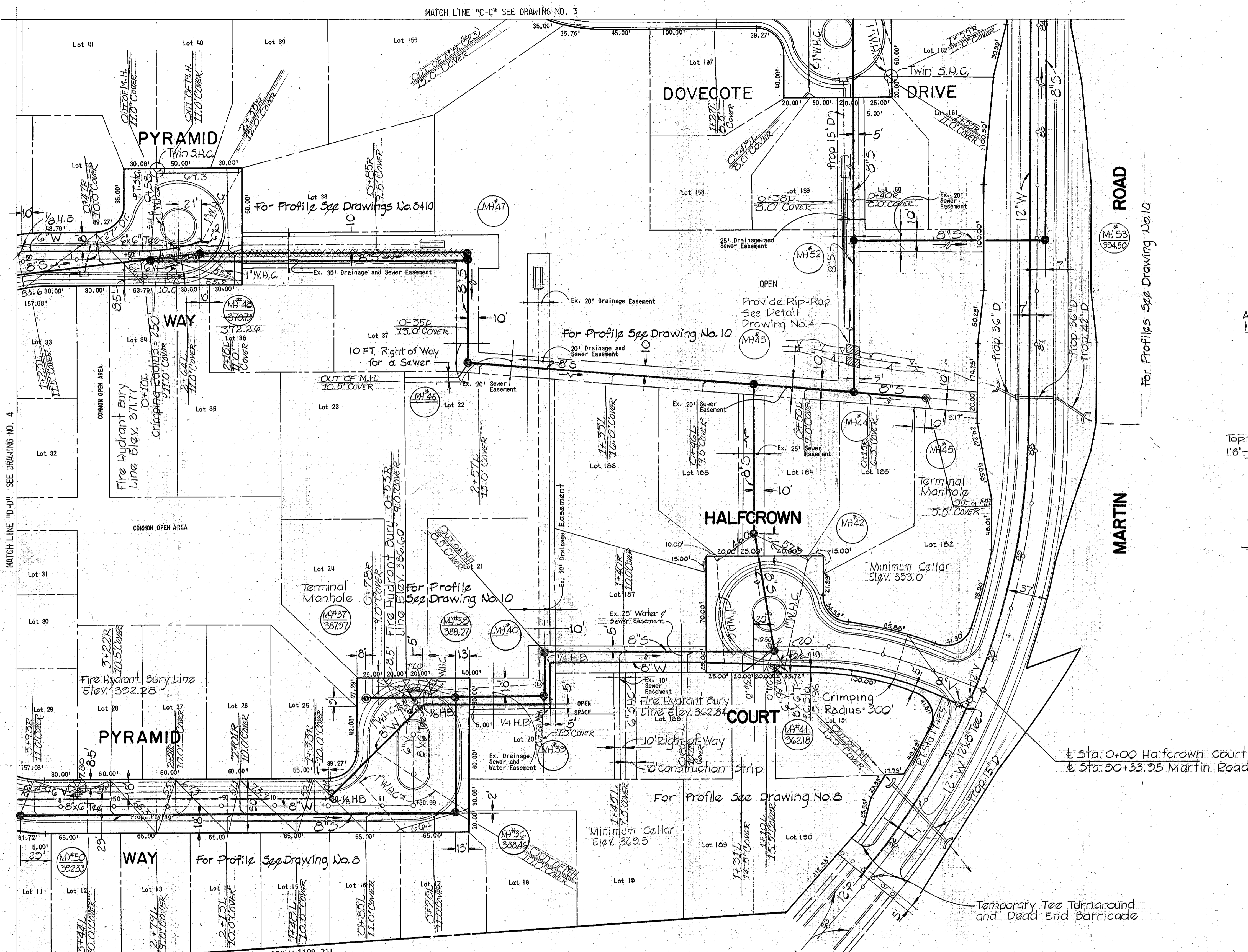
CONTRACT NO. 553-D-W#S

PLAN OF
WATER AND SEWER MAINS

COLUMBIA
VILLAGE OF HICKORY RIDGE
ELECTION DISTRICT - CLARKVILLE - NO. 5

DRAWING NO. 11 OF 10
SCALE 1" = 50'
DESIGNED: TAF
DRAFTED: LHC
CHECKED: TAF

Contract No. 2553-D-W#S
Village of Hickory Ridge
Section 1 Area 3
Water and Sewer Extension



FILL AT MANHOLE
No Scale

REV.	DATE	REMARKS	REV.	DATE	REMARKS
Δ	9/27/74		Δ	1/18/74	STATIONS & GRADES CHANGED AS SHOWN BETWEEN MH#41 TO #40 AND #34 TO #35 FOR PROFILE SEE #10 OF STA. 10+00 STATION & GRADE FROM ELEVATION CHANGED AS SHOWN BETWEEN MH#41 AND #43. FOR PROFILE SEE #10 & #11 STATIONS ON #11 B OF 30 AS SHOWN WITHIN EASEMENT, FOR PROFILE SEE SH. B OF 30.
			Δ	1/18/74	
			Δ	1/18/74	

Contract No. 2553-D-W-5
Village of Hickory Ridge
Section 1 Area 3
Water and Sewer Extension



Property of CHARLES MOORE
Liber 260 Folio 547

Property of STATE HIGHWAY ADMINISTRATION
Liber 373 Folio 459

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

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND
8-6-75
DATE

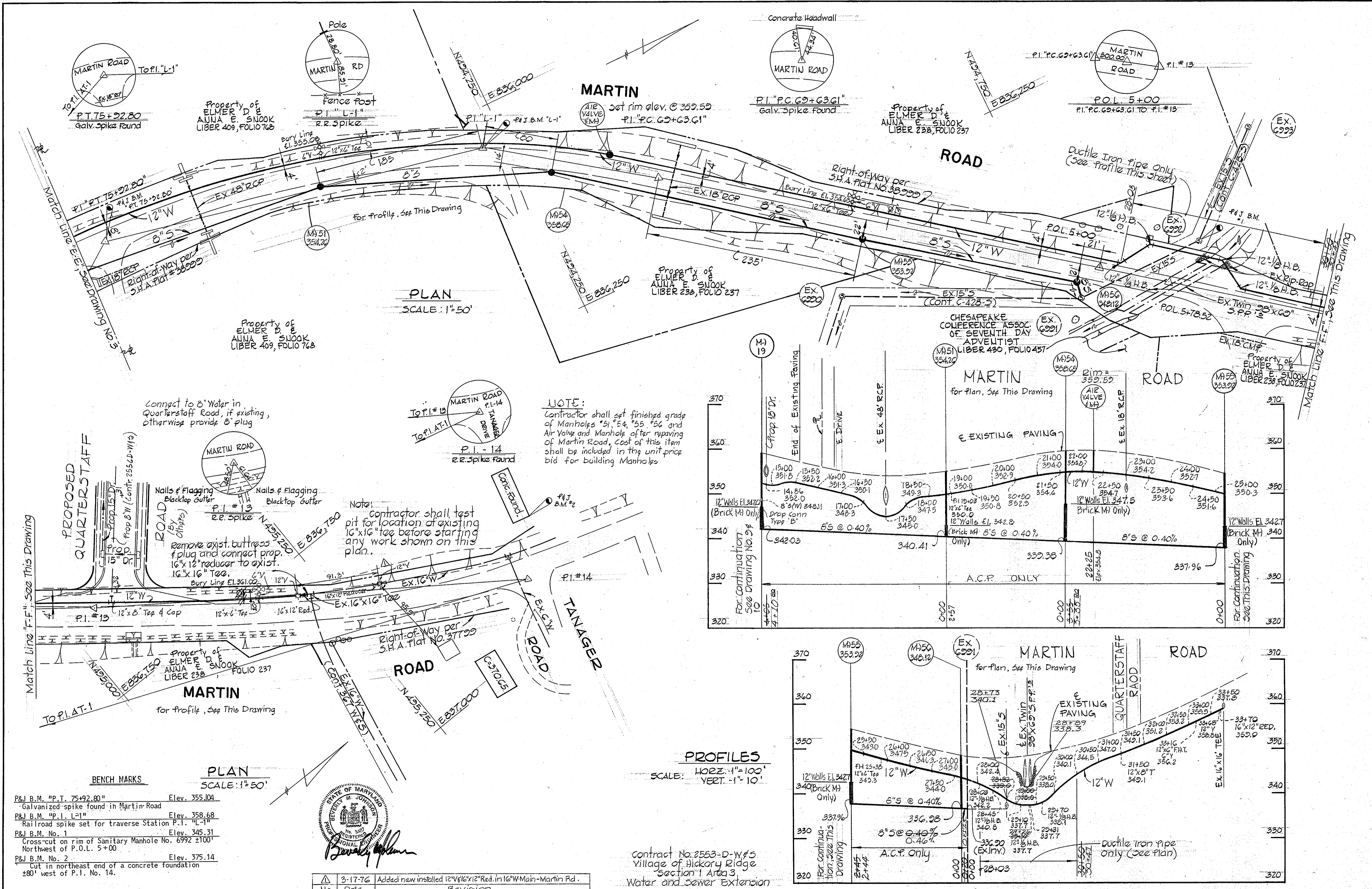
CONTRACT NO. 2553-D-W-5

PLAN OF WATER AND SEWER MAINS

COLUMBIA
VILLAGE OF HICKORY RIDGE
ELECTION DISTRICT - CLARKSVILLE - NO. 5

DRAWING NO. 5 OF 10
SCALE 1" = 50'

DESIGNED: TAF
DRAFTED: LIC
CHECKED: TAF

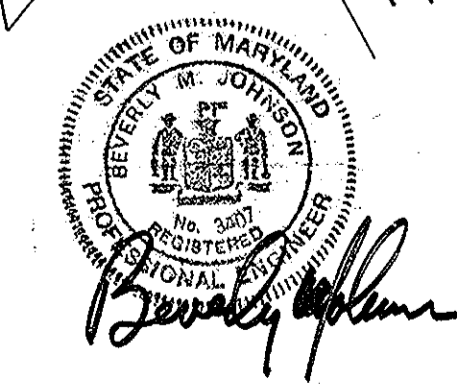


NOTE:
Contractor shall set finished grade of Manholes *51, *54, *55, *56 and Air Valve and Manhole after repaving of Martin Road. Cost of this item shall be included in the unit price bid for building Manholes.

Note: Contractor shall test pit for location of existing 16"x16" Tee before starting any work shown on this plan.

Connect to 8" Water in Quarterstaff Road, if existing, otherwise provide 8" plug

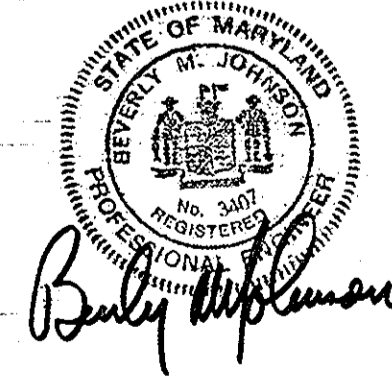
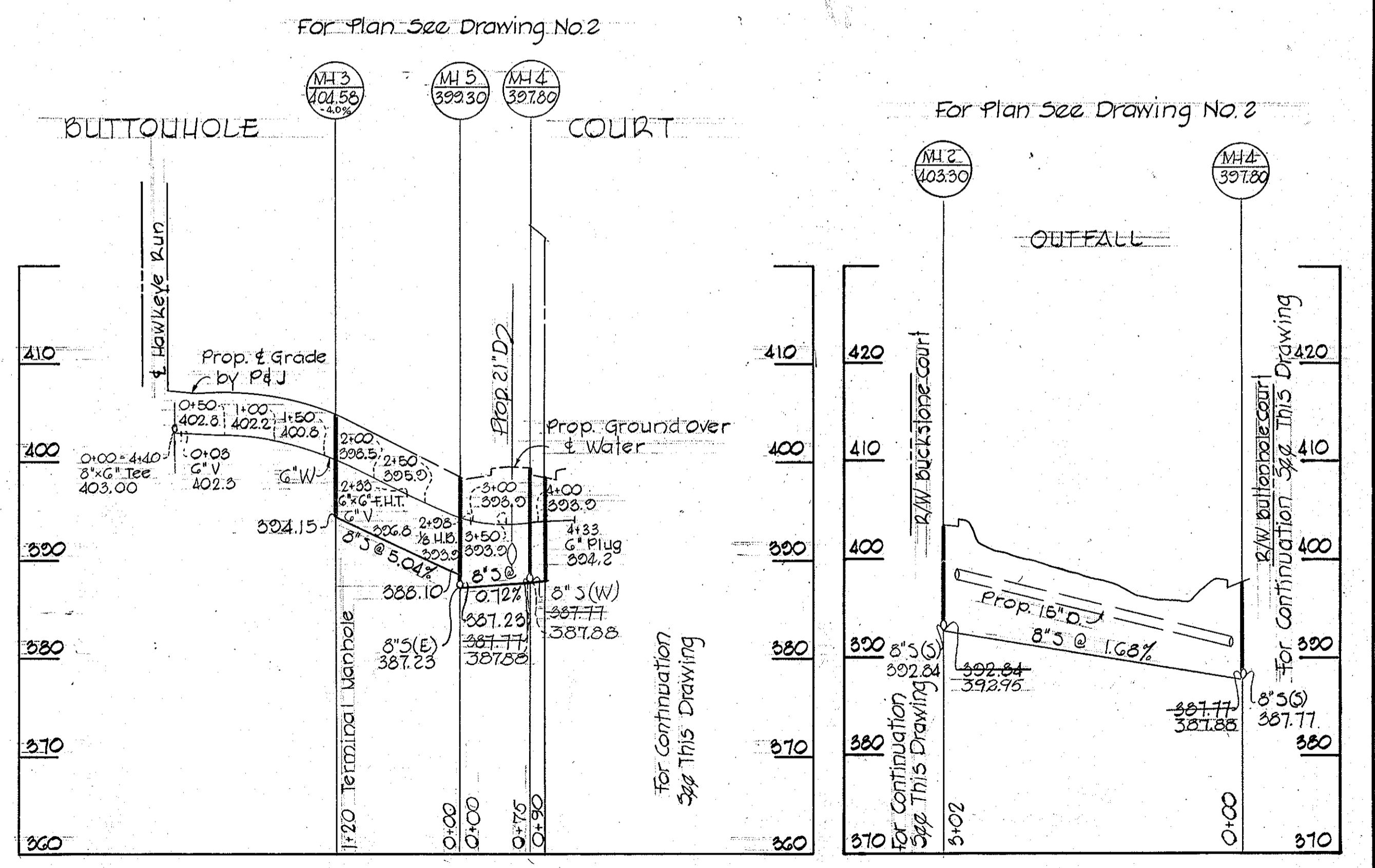
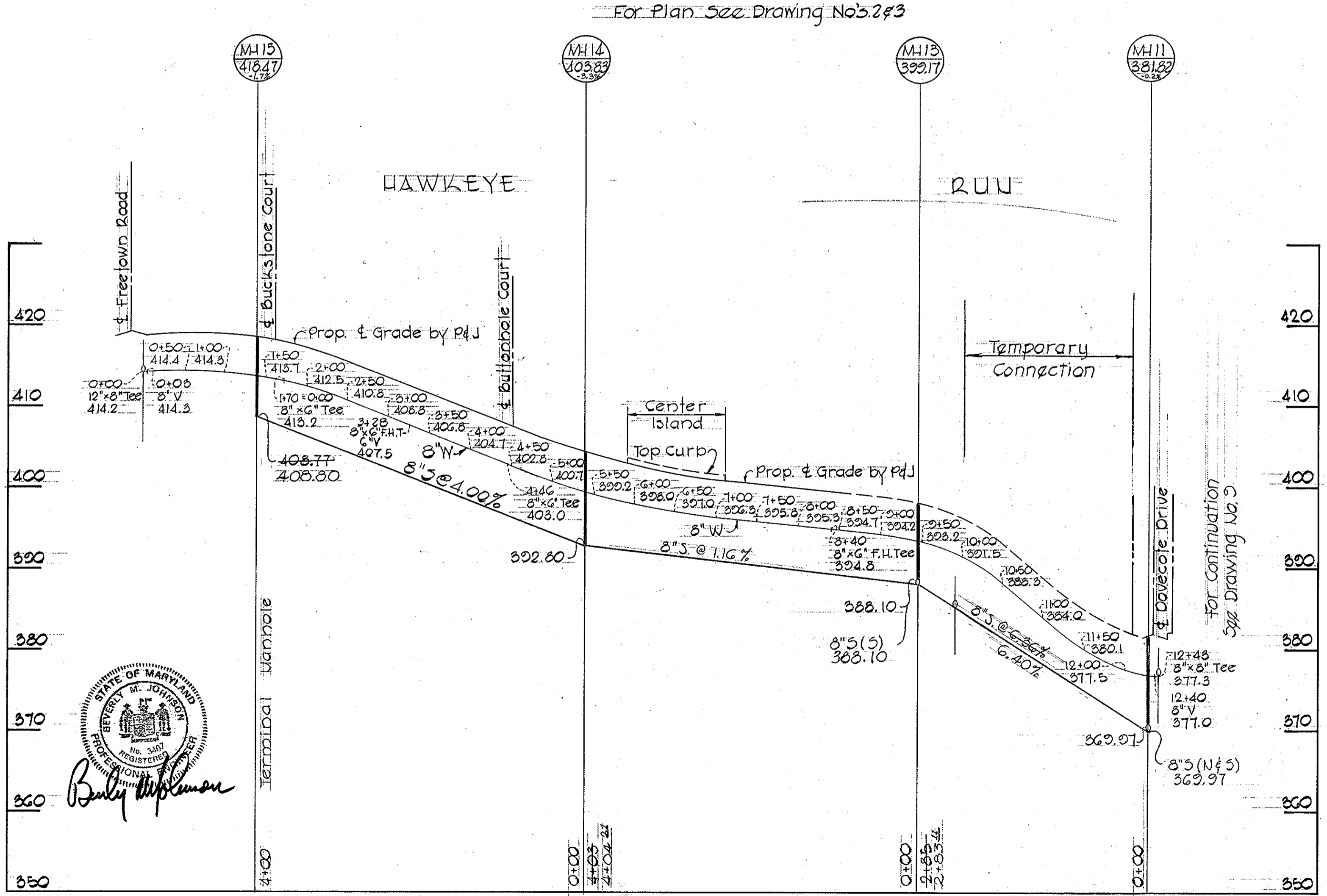
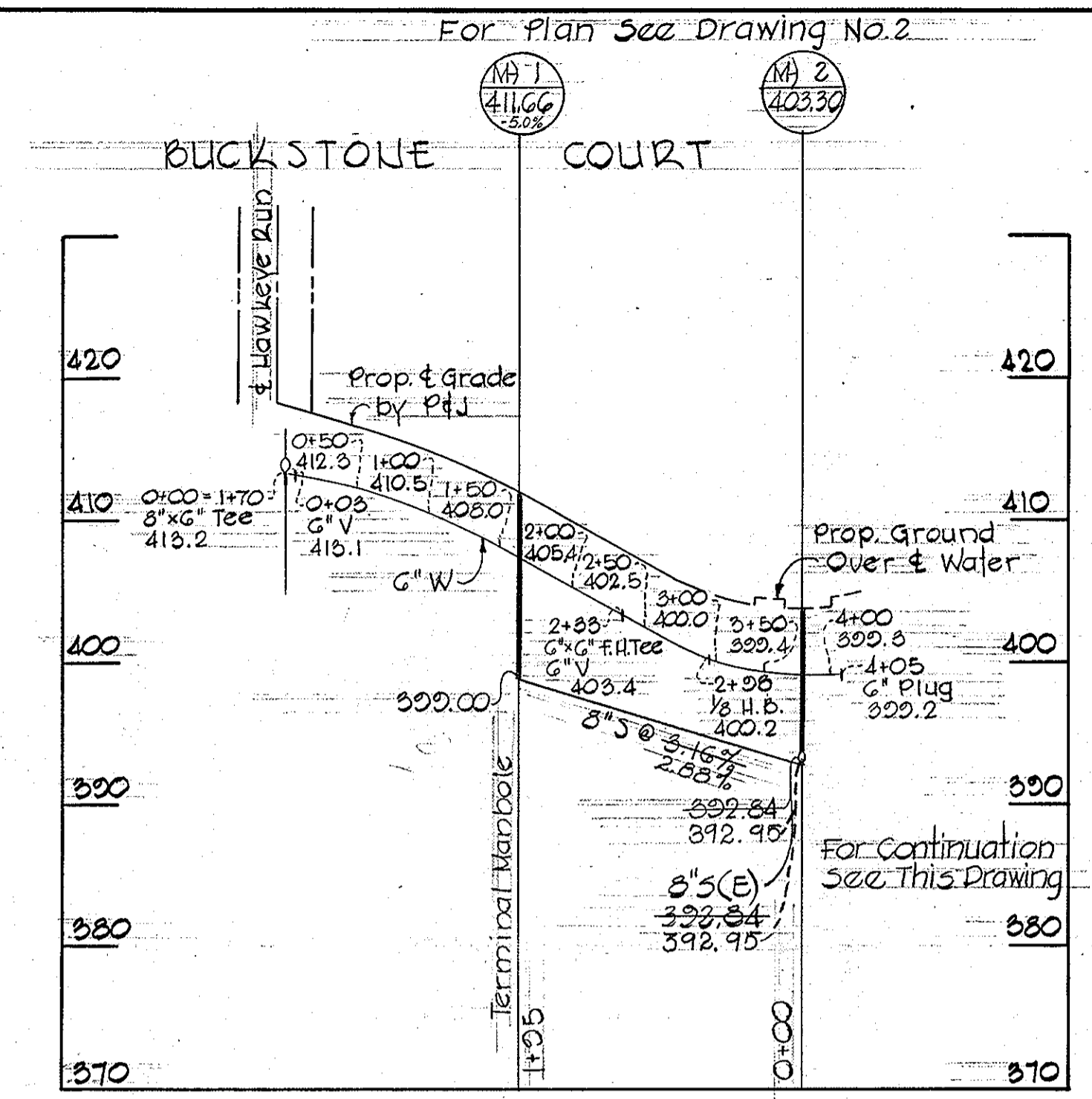
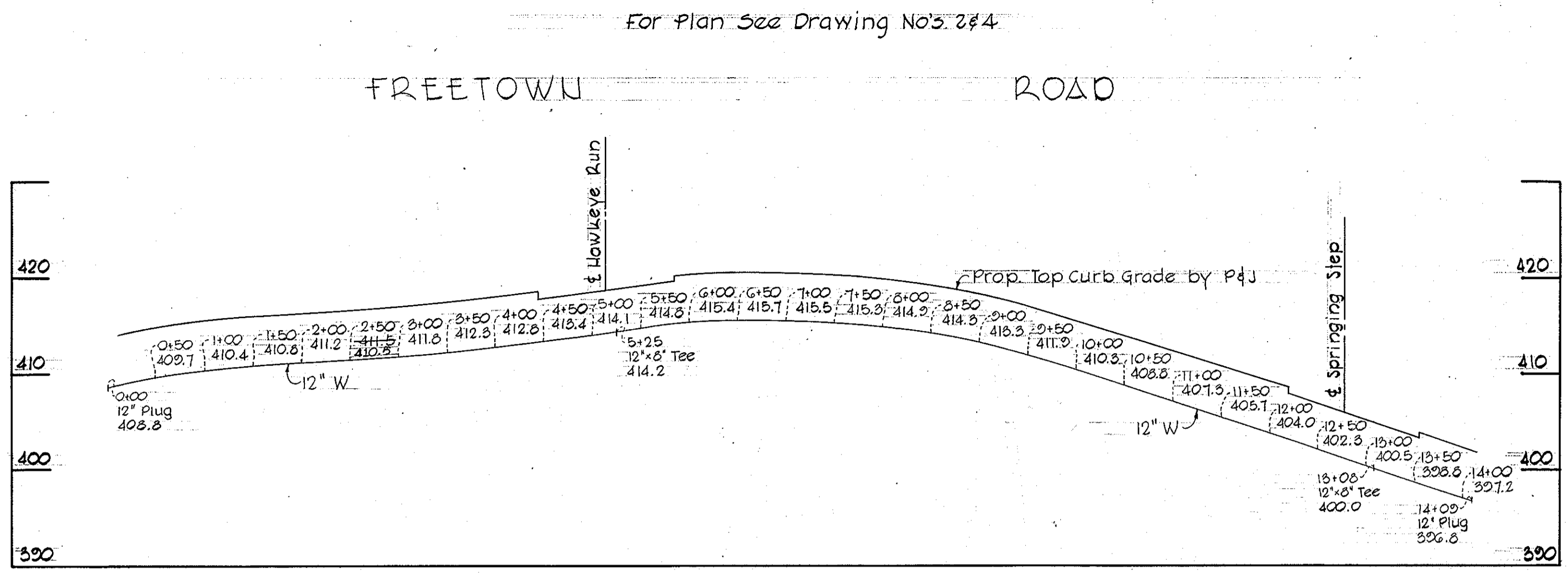
- BENCH MARKS**
- P & J B.M. "P.T. 75+92.80" Elev. 355.104
Galvanized spike found in Martin Road
 - P & J B.M. "P.I. L-1" Elev. 358.68
Railroad spike set for traverse Station P.I. "L-1"
 - P & J B.M. No. 1 Elev. 345.31
Cross-cut on rim of Sanitary Manhole No. 6992 ±100' Northwest of P.O.L. 5+00
 - P & J B.M. No. 2 Elev. 375.14
Cut in northeast end of a concrete foundation ±80' west of P.I. No. 14.



No.	Date	Revision
3-17-76		Added new installed 12" 16"x12" Red. in 16" W Main - Martin Rd.

Contract No. 2553-D-W & S
Village of Hickory Ridge
Section 1 Area 3
Water and Sewer Extension

PURDUM & JESCHKE ENGINEERS 1023 N. CALVERT ST. BALTIMORE, MARYLAND	DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND 8-6-73 DATE	CONTRACT NO. 2553-D-W & S	PLAN AND PROFILE WATER AND SEWER MAINS	COLUMBIA VILLAGE OF HICKORY RIDGE ELECTION DISTRICT - CLARKSVILLE NO. 5	DRAWING NO. 6 OF 10	SCALE As Shown	Designed: RDB Drafted: JSK Checked: TAF
					No. Built Sep. 27, 1974 AUGUST 7, 1973		



Beverly M. Johnson

REV.	DATE	REMARKS
1	SEP 27, 74	
2	OCT 14, 74	

REMARKS
 M#5 to M#4 extended 15 feet, M#1 to M#2 extended 15 feet, M#2 to M#4 moved 15 feet North. For plan see sheet No. 2

contract No. 2553-D-W-E5
 Village of Hickory Ridge
 Section 1 Area 3
 Water and Sewer Extension

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

DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND
 8-6-73 DATE
 W. O. Fallert CHIEF BUREAU OF ENGINEERING

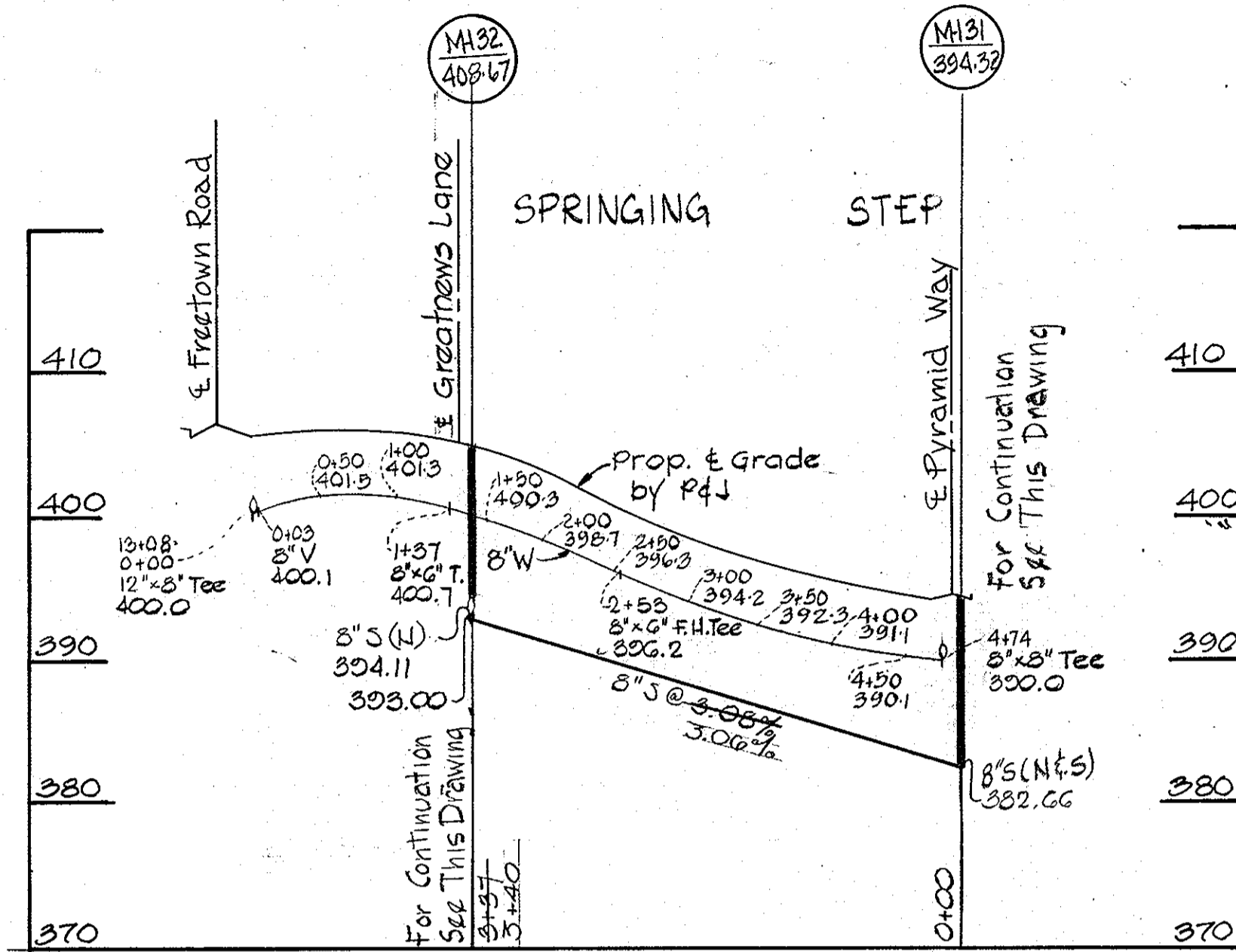
CONTRACT NO. 2553-D-W-E5

PROFILES OF
 WATER AND SEWER MAINS

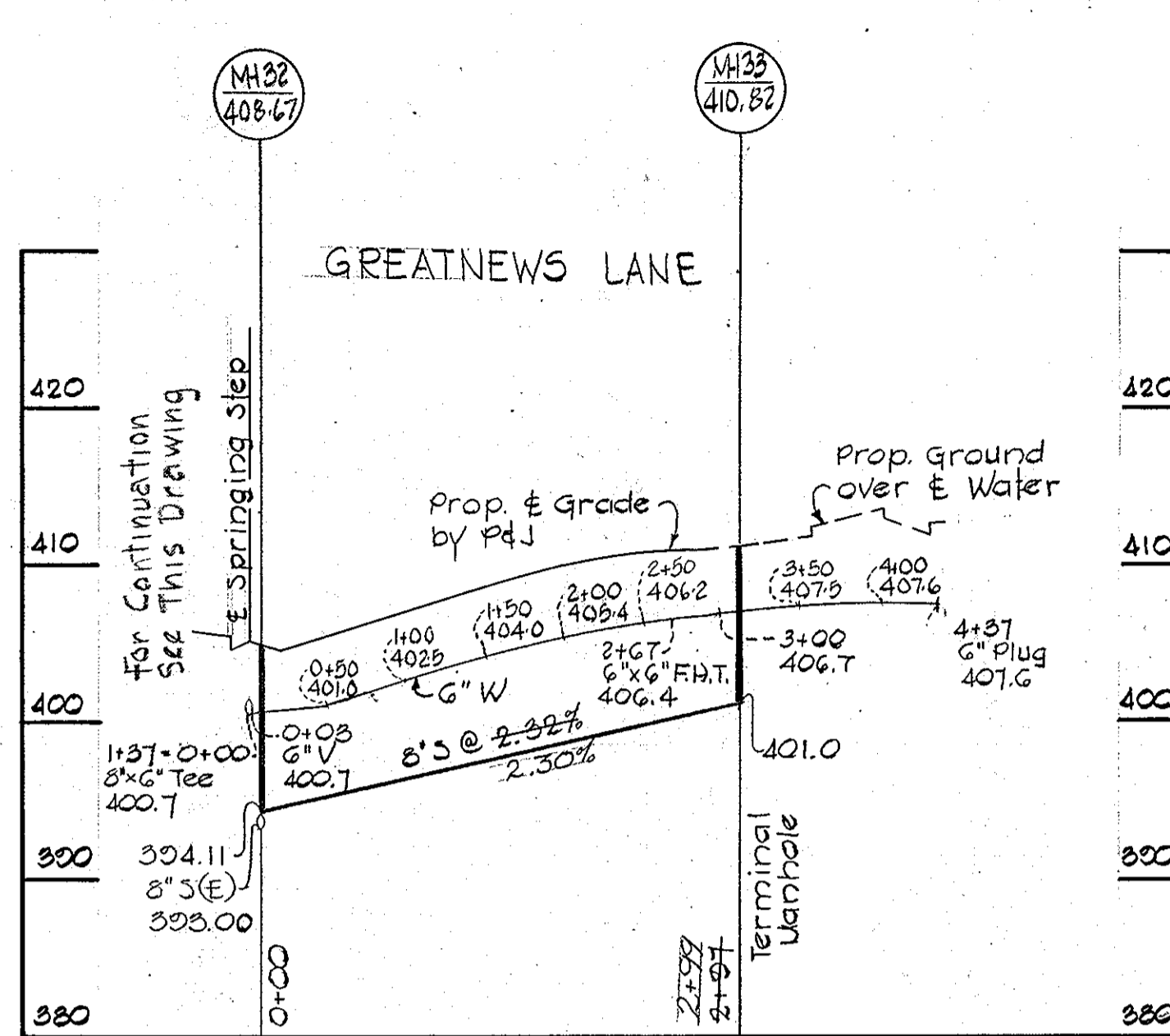
COLUMBIA
 VILLAGE OF HICKORY RIDGE
 ELECTION DISTRICT - CLARKSVILLE - NO. 5

DRAWING NO. 7 OF 10
 SCALE Hor. 1"=100 Vert. 1"=10
 DESIGNED: T.A.F.
 DRAFTED: D.A.H.
 CHECKED: T.A.F.

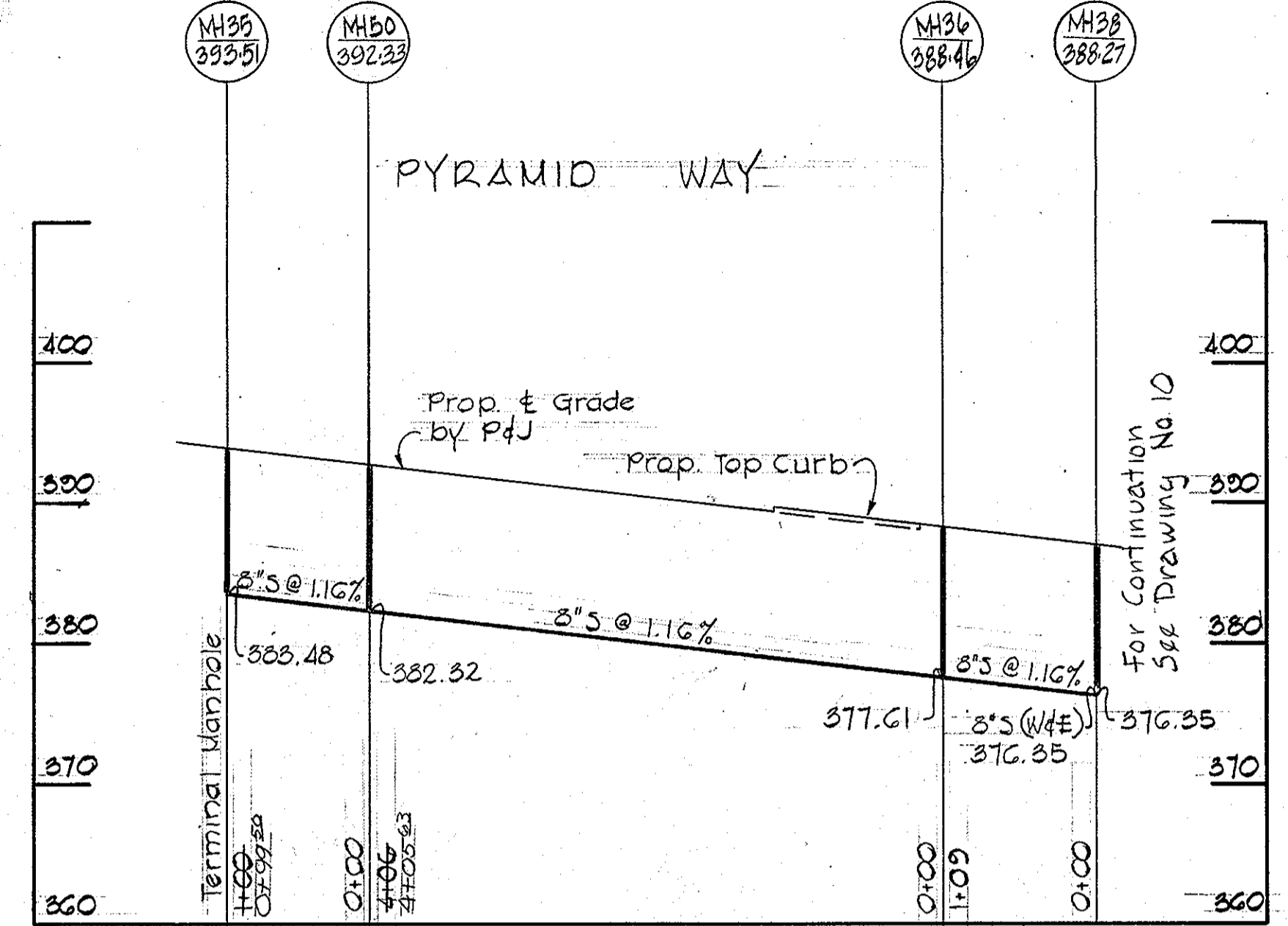
For Plan See Drawing No. 4



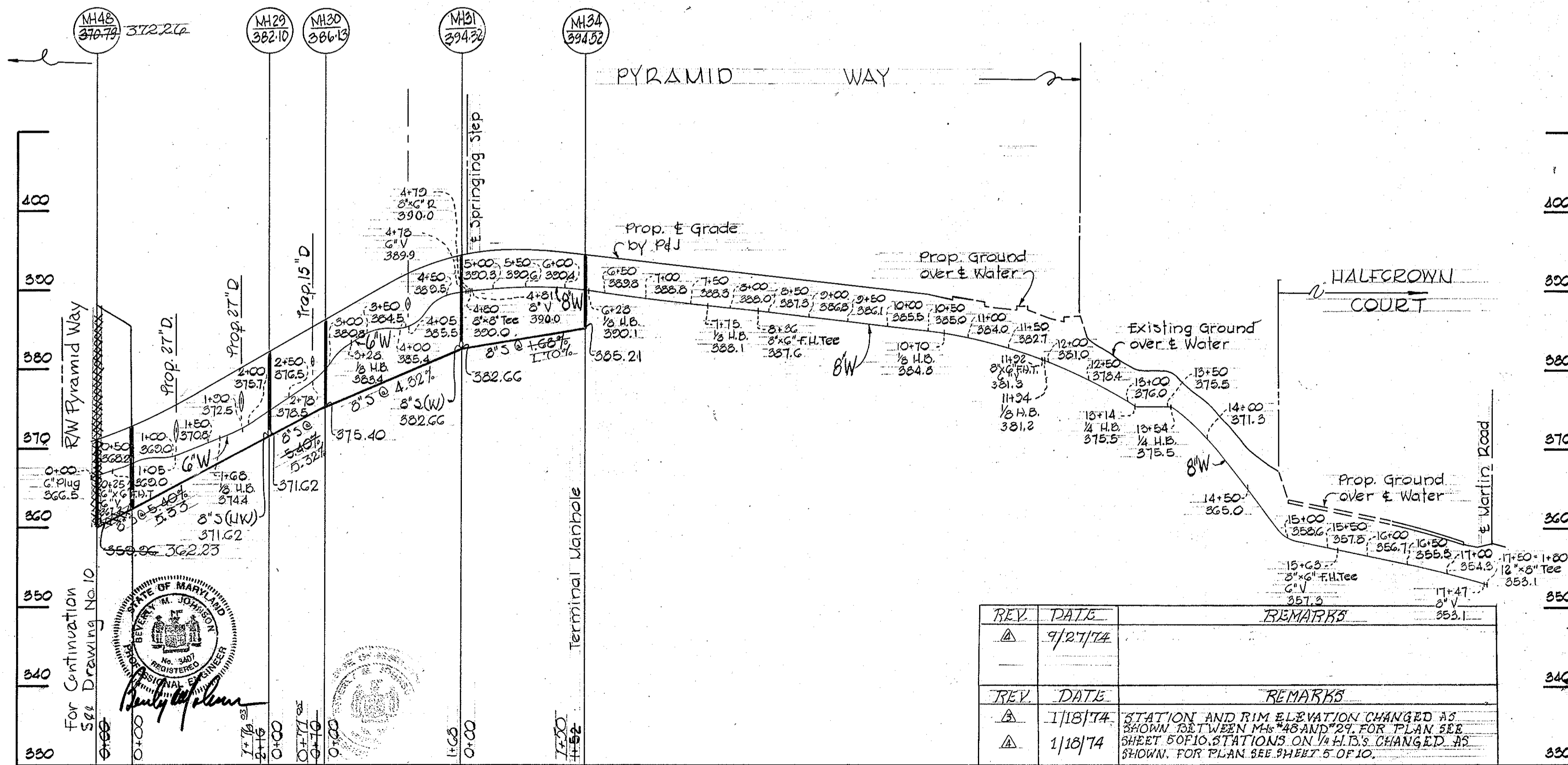
For Plan See Drawing No. 4



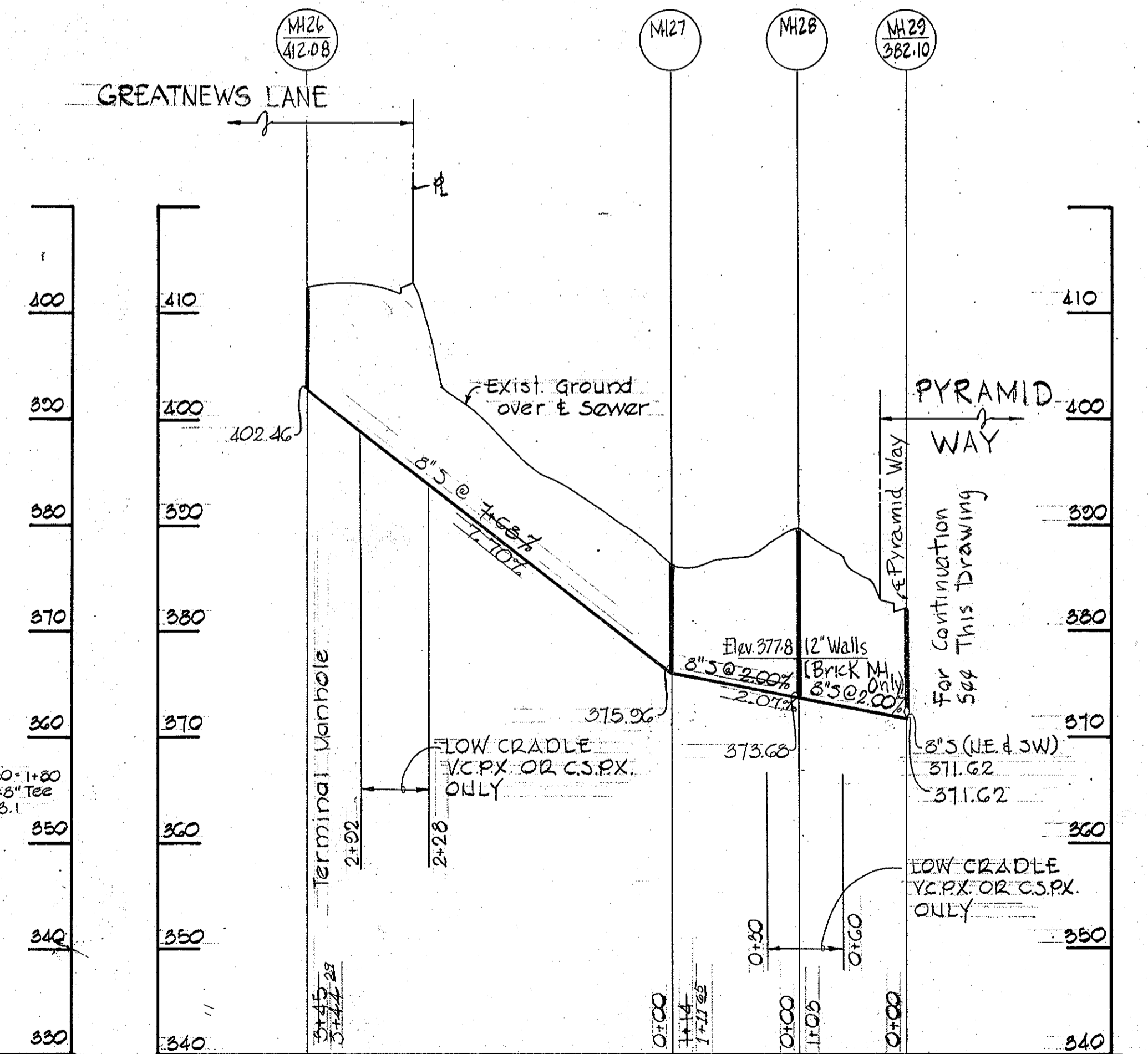
For Plan See Drawing No's 4 & 5



For Plan See Drawing No's 4 & 5



For Plan See Drawing No. 4



REV.	DATE	REMARKS
Δ	9/27/74	
REV.	DATE	REMARKS
Δ	1/18/74	STATION AND RIM ELEVATION CHANGED AS SHOWN BETWEEN MH48 AND 29. FOR PLAN SEE SHEET 6 OF 10. STATIONS ON 1/4 H.B.'S CHANGED AS SHOWN. FOR PLAN SEE SHEET 5 OF 10.
Δ	1/18/74	

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

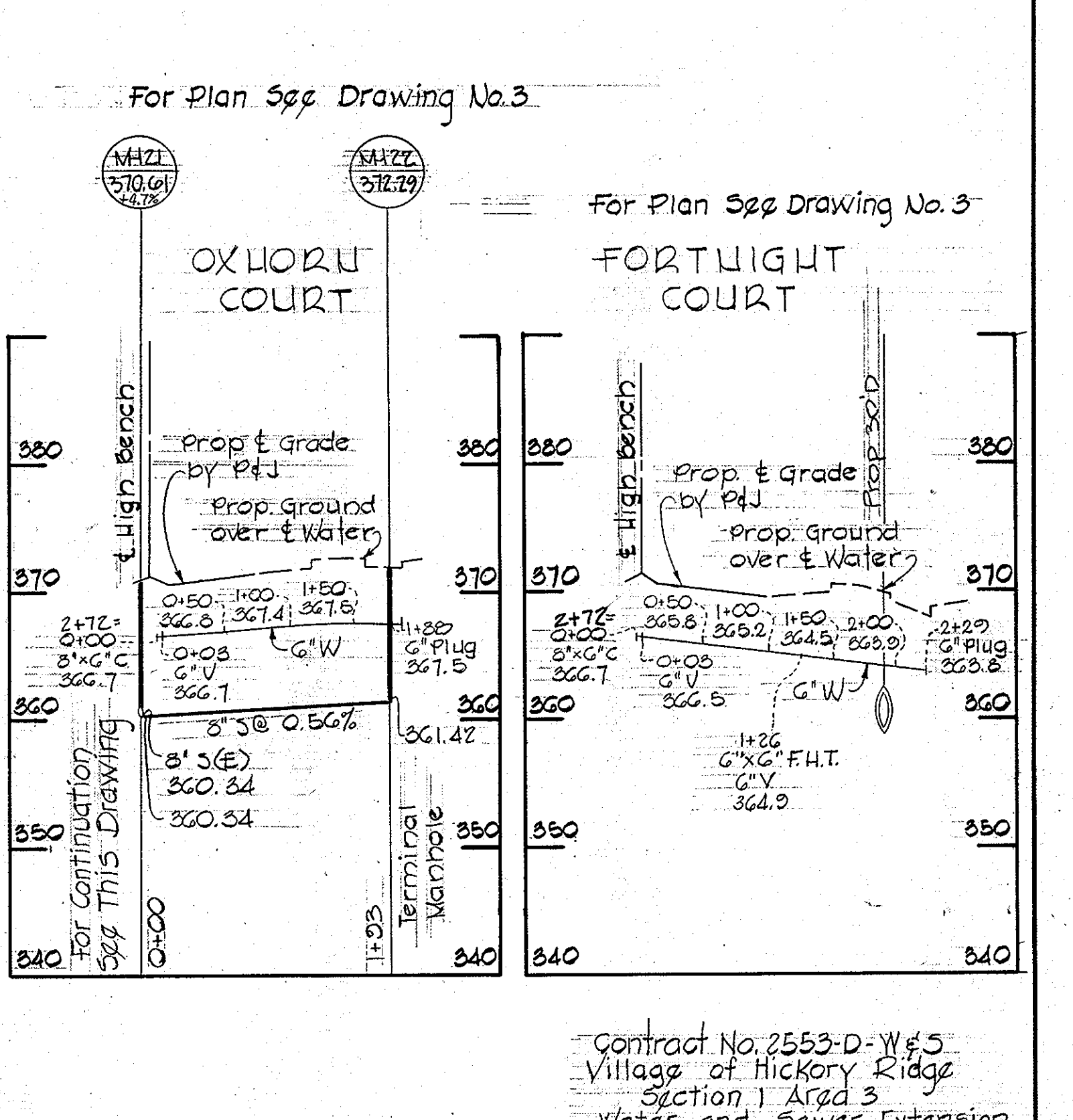
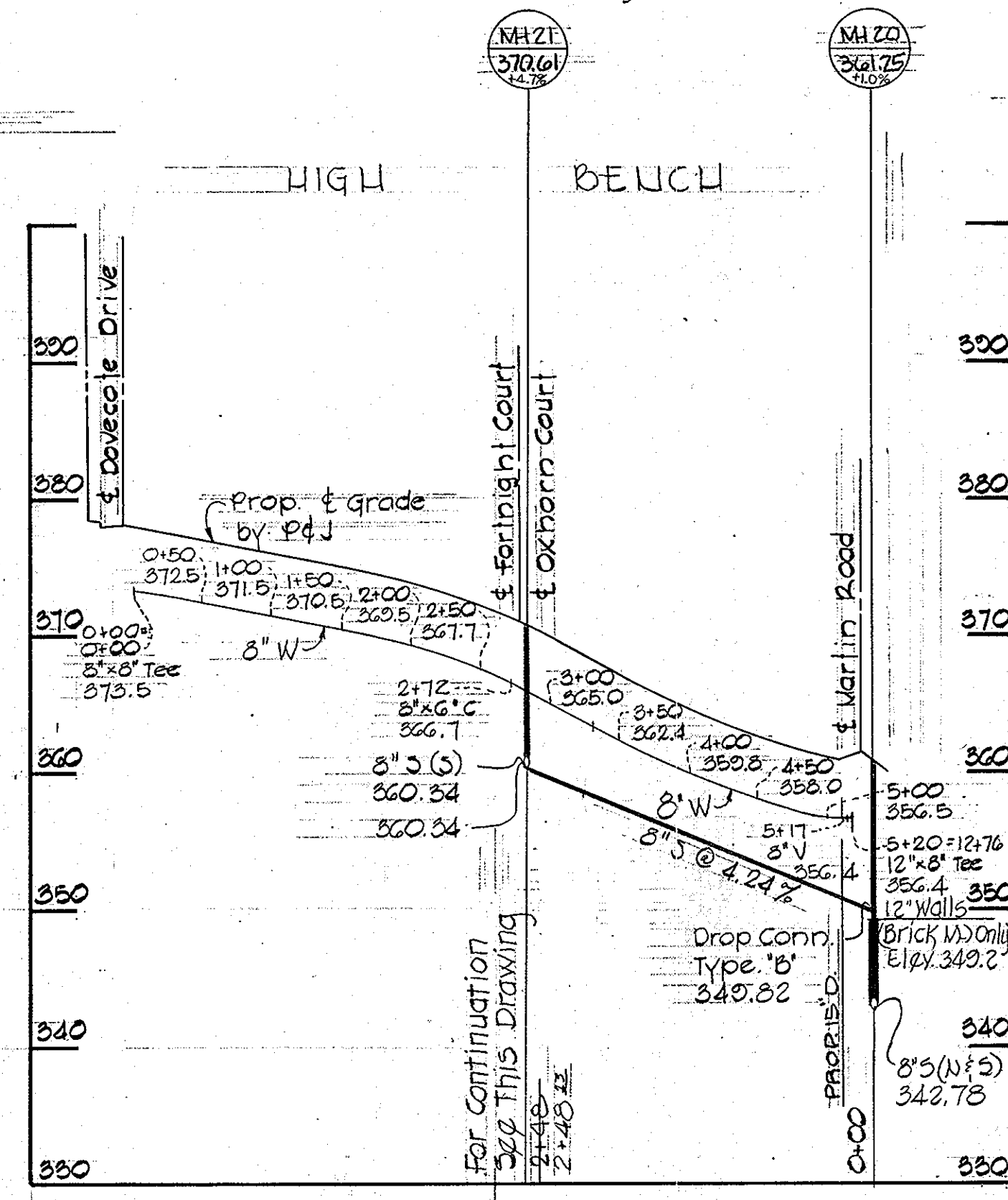
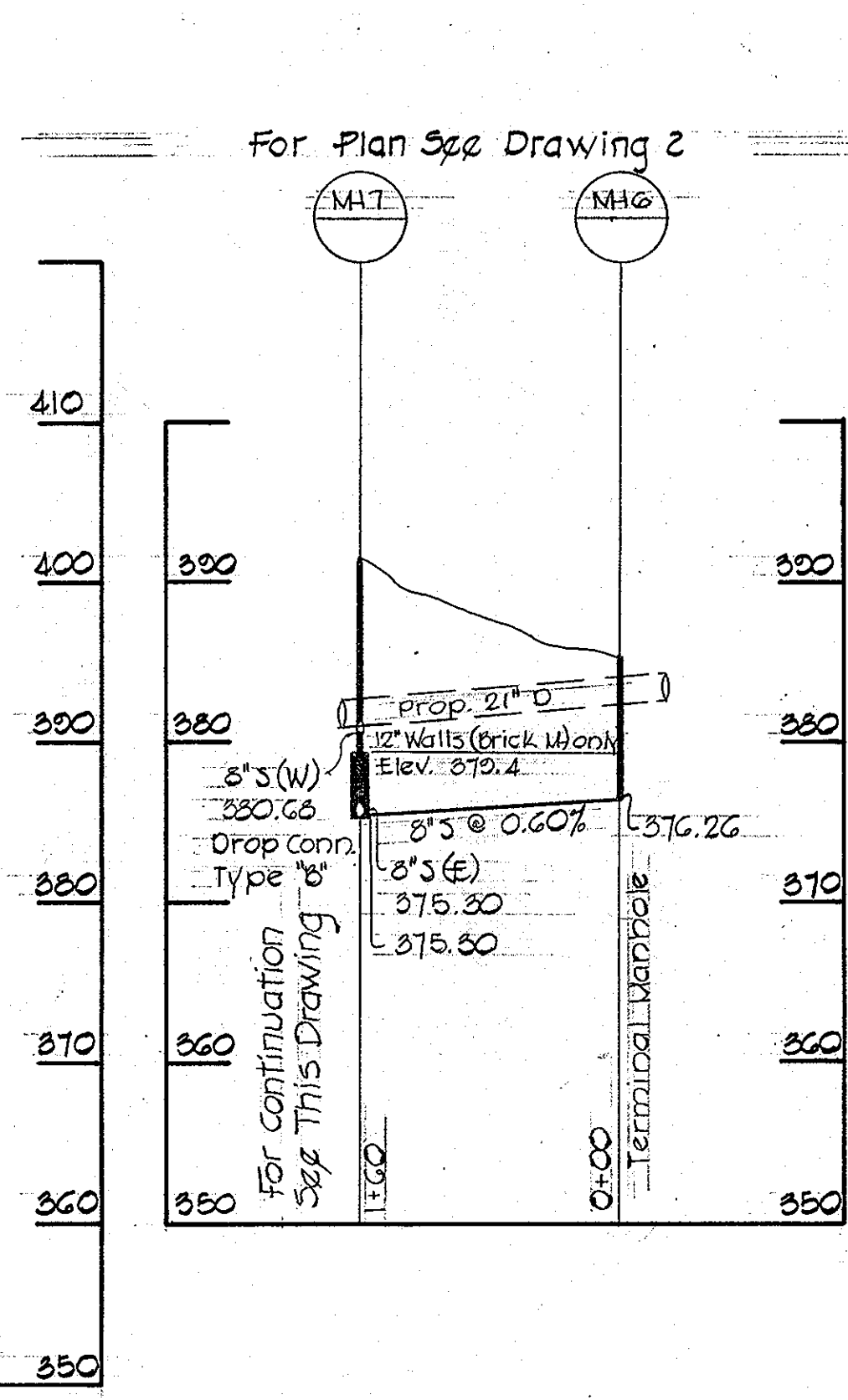
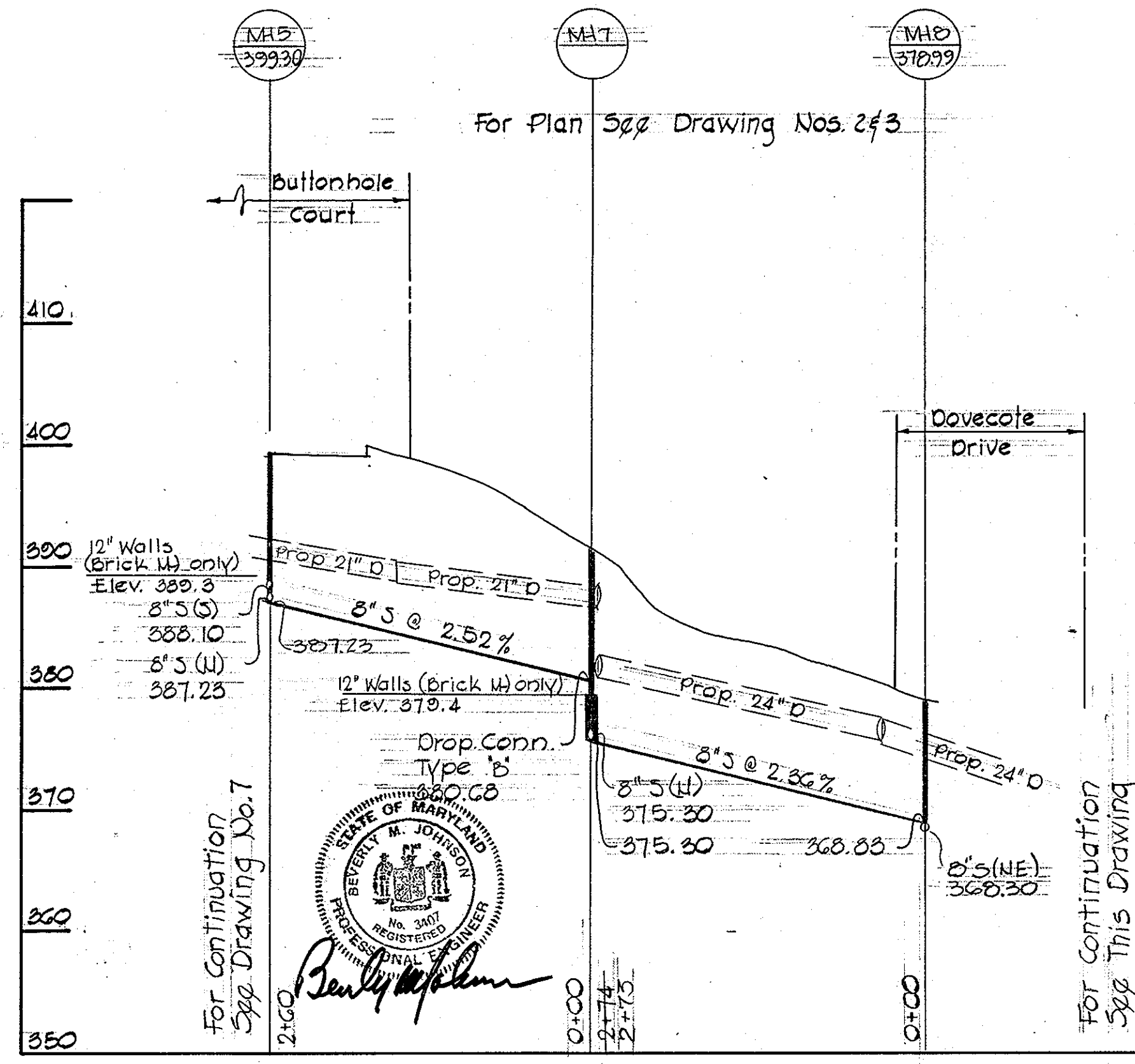
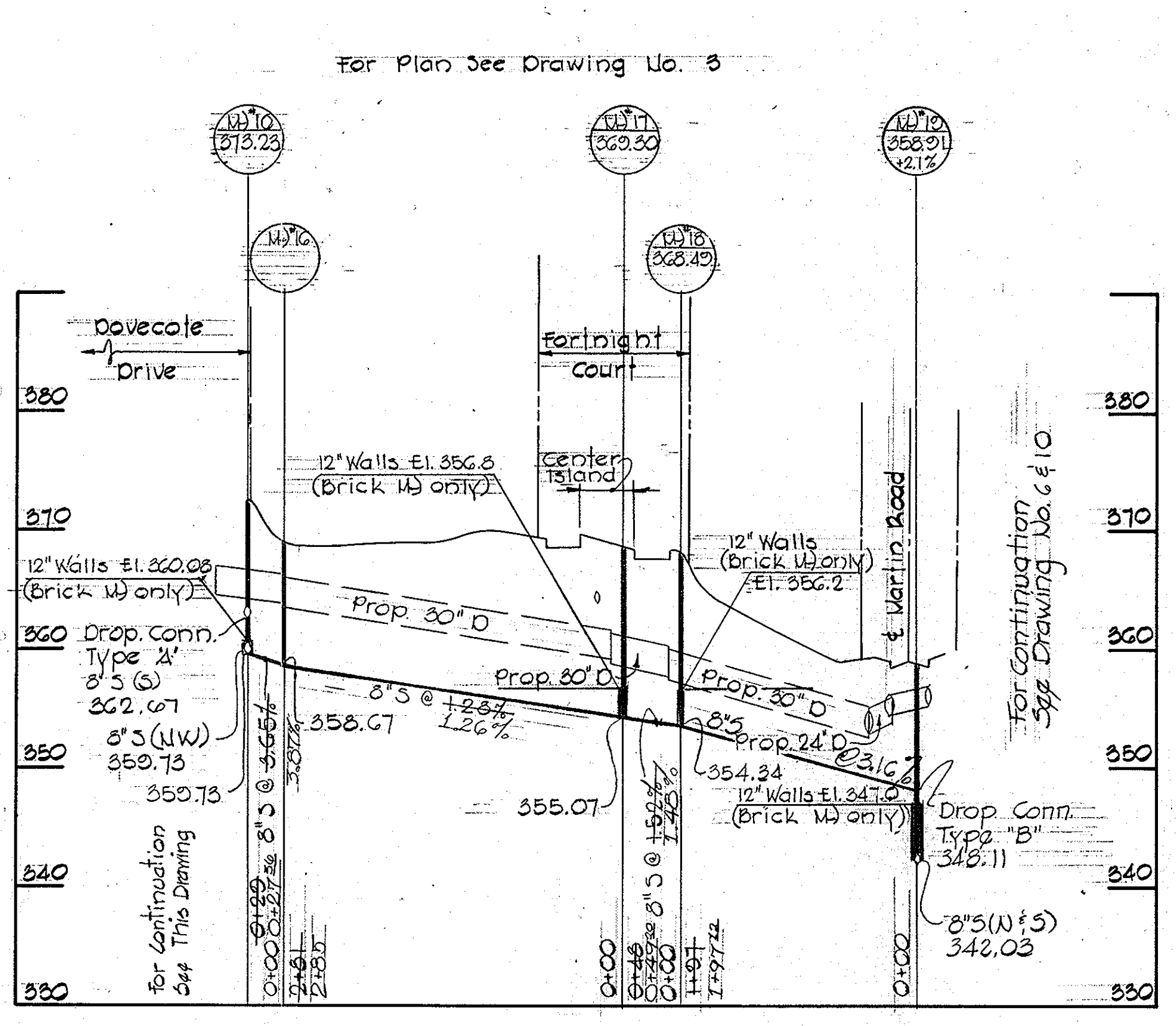
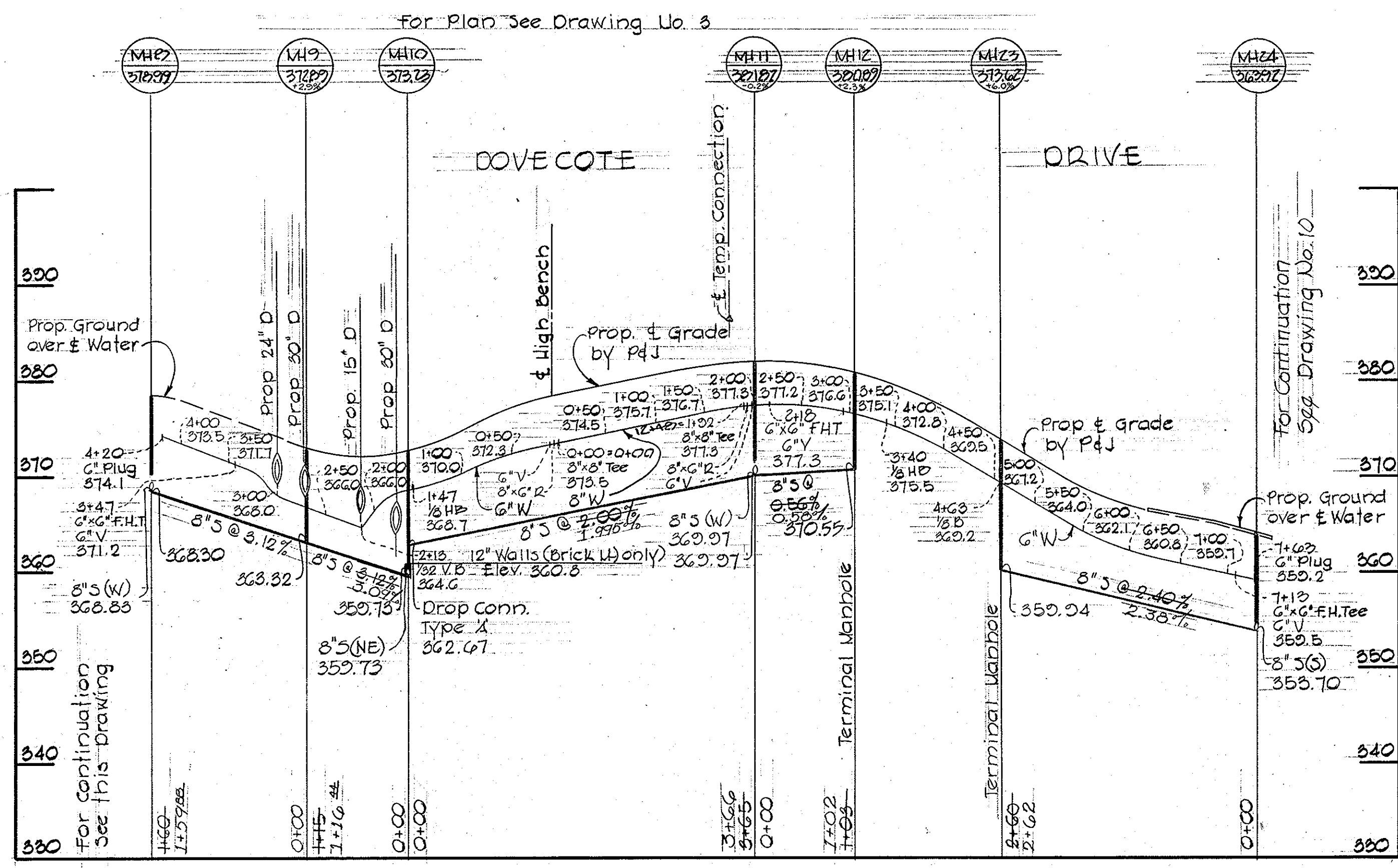
DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND
8-6-73
DATE

CONTRACT NO. 553-D-W&S

PROFILES OF
WATER AND SEWER MAINS

COLUMBIA
VILLAGE OF HICKORY RIDGE
ELECTION DISTRICT - CLARKSVILLE, NO. 5

DRAWING SCALE
NO. 8 OF 10
DESIGNED: R.D.B.
DRAFTED: D.A.H.
CHECKED: T.A.F.



Contract No. 2553-D-W&S
 Village of Hickory Ridge
 Section 1, Area 3
 Water and Sewer Extension

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

DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND
 8-6-73
 DATE

CONTRACT NO. 2553-D-W&S
 W.O. Falwell
 CHIEF BUREAU OF ENGINEERING

PROFILES OF
 WATER AND SEWER MAINS

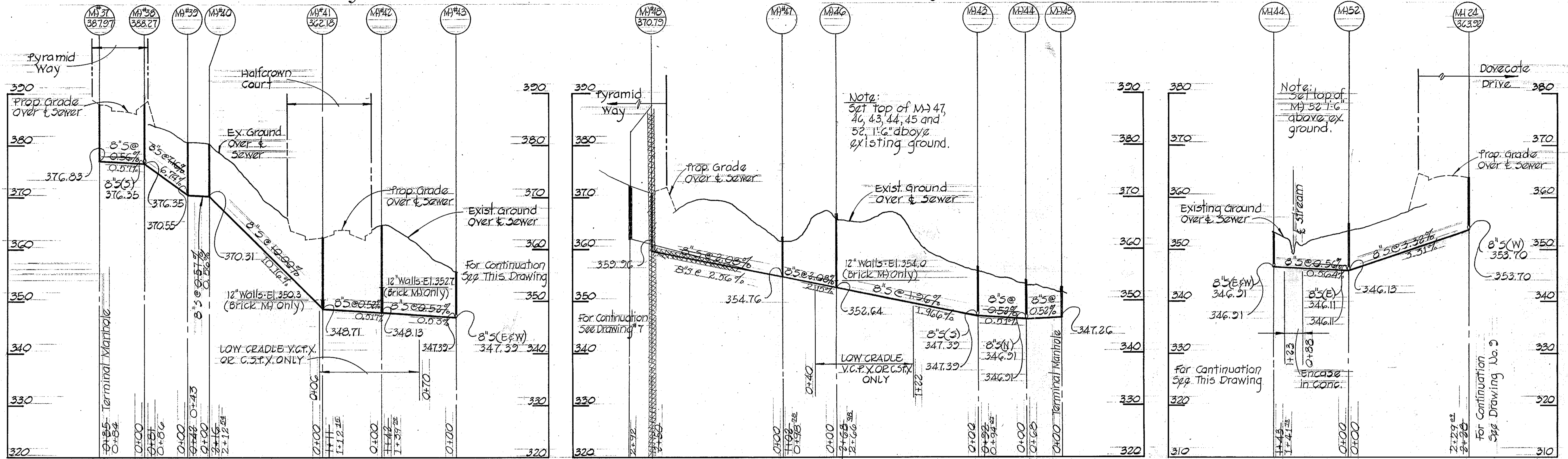
COLUMBIA
 VILLAGE OF HICKORY RIDGE
 ELECTION DISTRICT - CLARKSVILLE - NO. 5

DRAWING NO. 9 OF 10
 SCALE: Hor. 1"=100', Vert. 1"=10'
 DESIGNED: R.D.B.
 DRAFTED: D.A.H.
 CHECKED: T.A.F.

8" SAN. BETWEEN LOTS 159 & 160
For Plan See Drawing No. 3 & 5

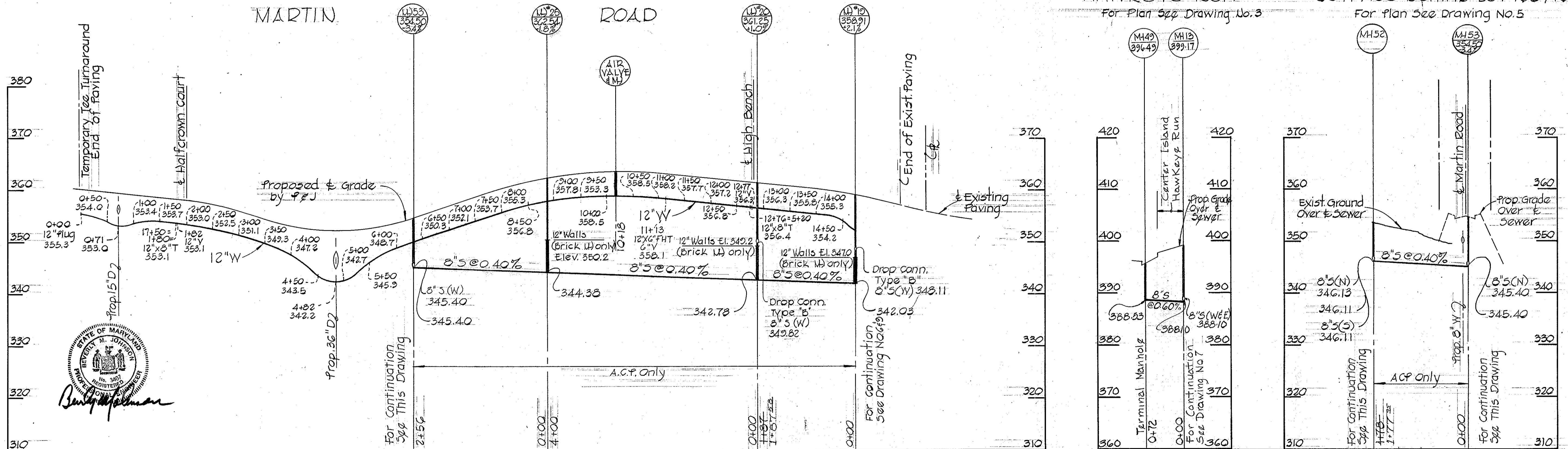
For Plan See Drawing No. 5

For Plan See Drawing No. 5



HAWKEYE RUN OUTFALL BEHIND LOT 160 & 161
For Plan See Drawing No. 3 For Plan See Drawing No. 5

For Plan See Drawing No. 3 & 5



REV.	DATE	REMARKS
Δ	1/18/74	Sketches & grades changed as shown between MHs #21 to #38. For plan see drawing No. 5 of this set.
Δ	1/18/74	Sketches & grades changed as shown between MHs #47 and #48. For plan see drawing No. 5 of this set.

REV.	DATE	REMARKS
Δ	9-27-74	

Contract No. 2553-D-W&S
Village of Hickory Ridge
Section 1 Area 3
Water and Sewer Extension

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

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND
8-6-73
DATE

CONTRACT NO. 2553-D-W&S

PROFILES OF
WATER AND SEWER MAINS

COLUMBIA
VILLAGE OF HICKORY RIDGE
ELECTION DISTRICT - CLARKSVILLE - NO. 5

DRAWING NO. 10
OF 40
SCALE
Hor. 1"=100'
Vert. 1"=10'

DESIGNED: R.D.B.
DRAFTED: R.D.B.
CHECKED: T.A.F.