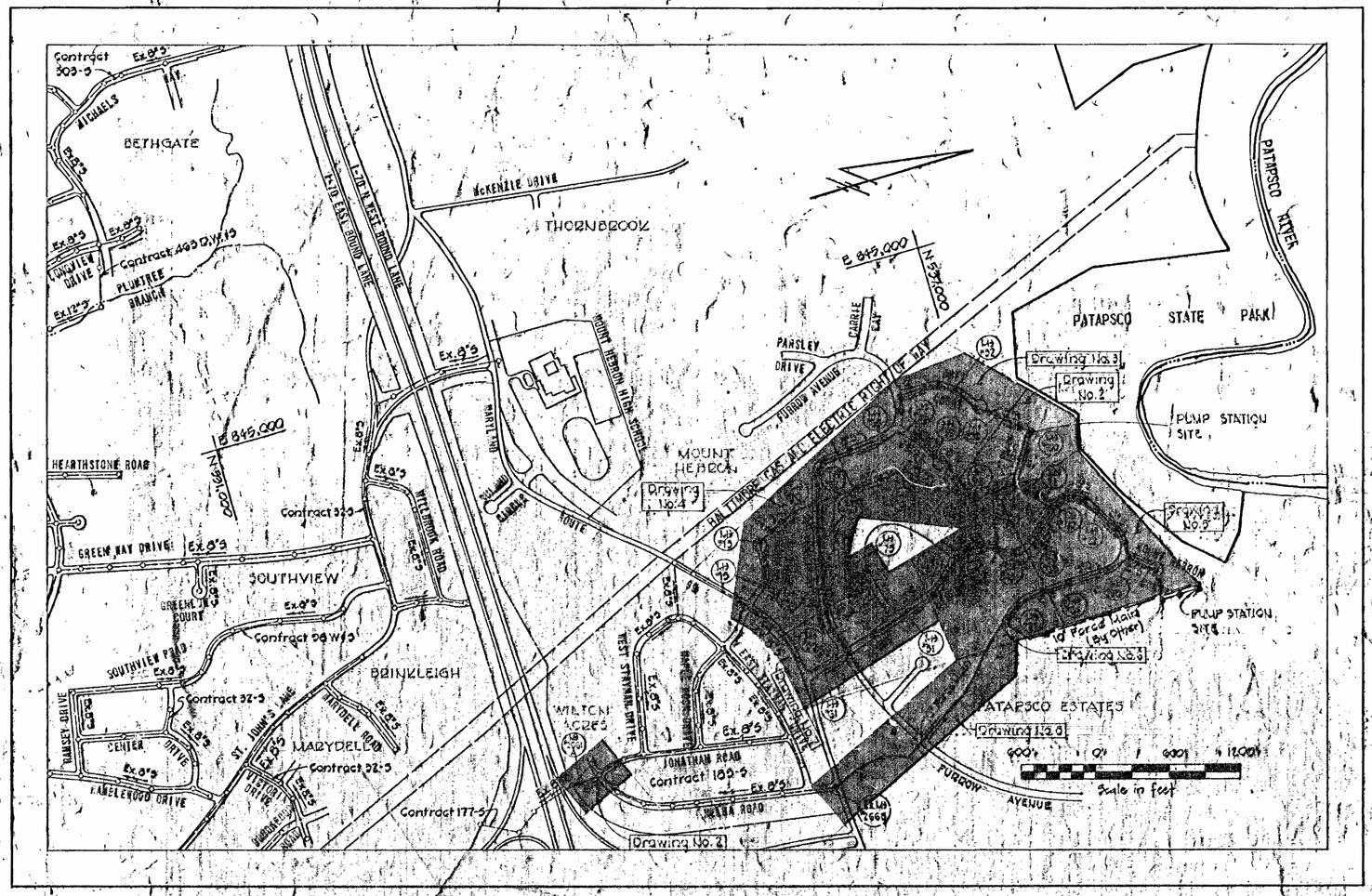
QUANTITIES		
Item	Estimated	As-Built
10" Sewer	30 L.F.	25 L.F.
8" Sewer	10,840 L.F.	9907 L.F.
8" Sewer	1360 L.F.	2800 L.F.
10" Force Main	2375 L.F.	2313 L.F.
8" Force Main	275 L.F.	275 L.F.
Manholes	545 V.F.	549 V.F.



GENERAL NOTES

1. Approximate location of existing utilities is shown. The Contractor shall take all necessary precautions to protect existing utilities and to maintain uninterrupted service. Any damage incurred shall be repaired immediately to the satisfaction of the Engineer by the Contractor at the Contractor's expense.
2. The Contractor shall locate existing utilities a minimum of two weeks in advance of construction operations in vicinity of utilities. Cost shall be included in the unit prices bid for excavation and backfill for mains.
3. Contractor shall notify the following utilities or agencies at least five (5) days before starting work shown on these plans:
   - Miss Utility (Collect) 1-559-0100
   - Baltimore Gas & Electric Company - Underground Electric Distribution Engineering "Damage Control" Mr. G.J. Zeller, Manager / 234-5691
   - Baltimore Gas & Electric Company - Underground Gas Distribution Engineering, Mr. Bell - 234-5533
   - Chesapeake and Potomac Telephone Co. - 725-9976
   - State Highway Administration 531-5533
4. Clear all utilities by a minimum of 6". Clear all poles 2'-0" minimum or tunnel as required. Cost for tunneling or bracing at poles shall be included in the unit prices bid for excavation and backfill for sewer mains.
5. All pipe elevations shown are invert elevations.
6. All manholes shall be 4'-0" inside diameter.
7. The Contractor shall provide a pipe joint in each sewer main within 2'-0" of exterior of manhole walls.
8. Watertight manhole frame and cover to be used where indicated on drawings Standard Details S-12 (ACB 83A). Where watertight manhole frame and cover is used, set top of frame 1'-6" above finished grade.
9. For details not shown on the Contract Drawings see Standard Details bound in the specifications.
10. Trees are to be protected from damage to the maximum extent.
11. Contractor shall remove trees, stumps and roots along line of excavation as directed by the Engineer. Payment for such removal shall be included in the unit price bid for excavation and backfill for sewer mains.
12. Place regulation "Men Working" and warning signs as required to comply with Maryland State Highway Administration Manual of Traffic Control for Highway Construction and Maintenance Operations.
13. All sewer mains shall be C.S.P.A., V.S.P.A., or A.C.P. Class 2400, unless otherwise noted.
14. Force mains shall be ductile iron, from Class 50 in accordance with Section 9 of the specifications. Force mains shall have a minimum of 4 feet of cover.
15. Buttress or anchor all force main fittings with concrete. For details see Standard Details bound in the Specifications.
16. Horizontal and vertical controls are based on the Maryland State Grid Coordinate System.

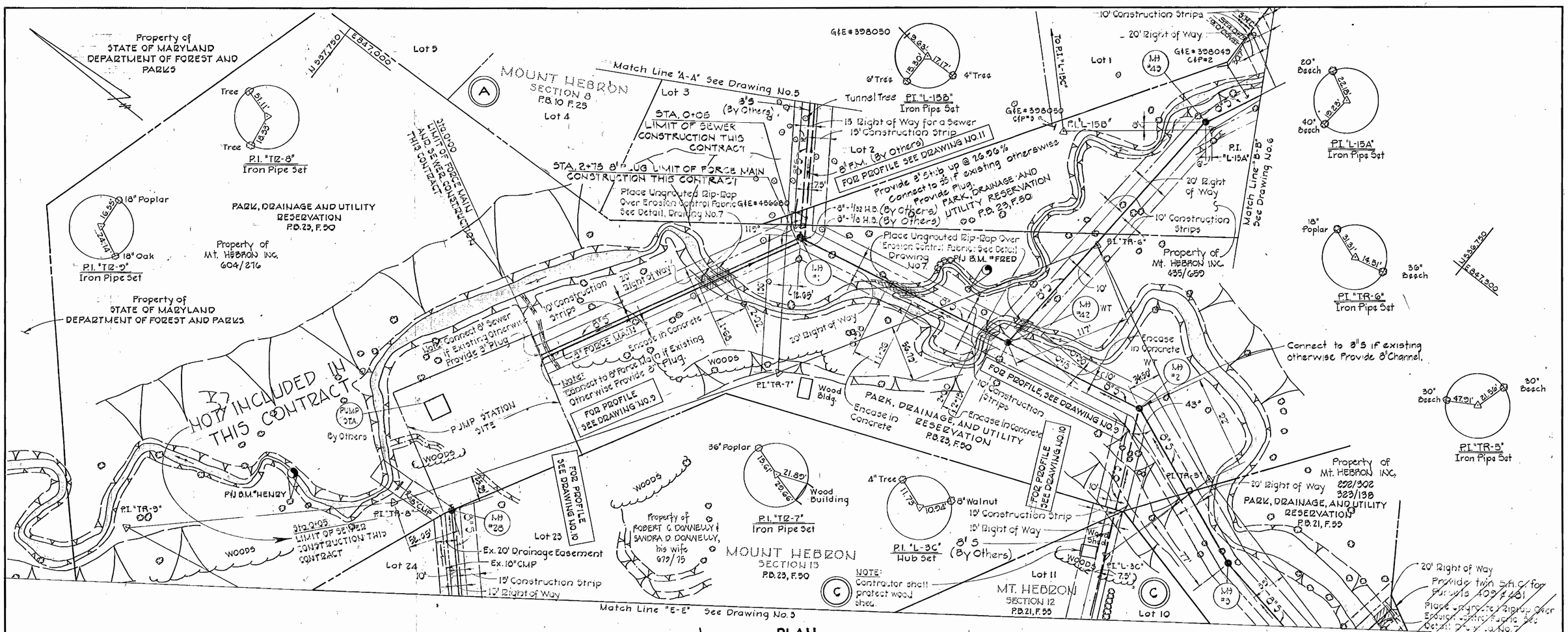
CAPITAL PROJECT S-4-6037
CONTRACT NO. 744-S
MOUNT HEBRON SANITARY SEWERS
HOWARD COUNTY, MARYLAND
DEPARTMENT OF PUBLIC WORKS

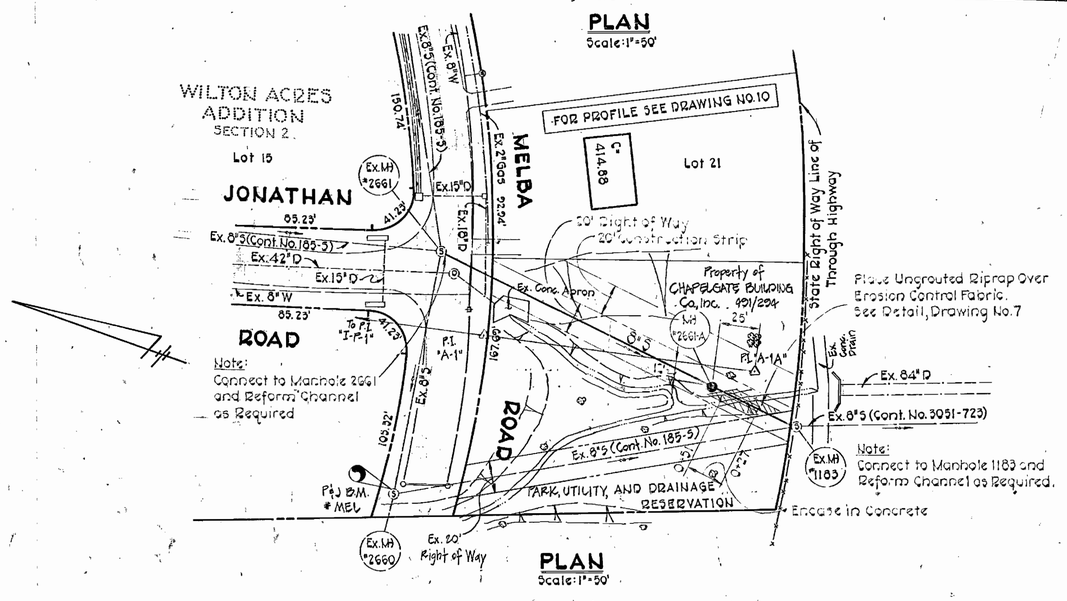
CONTRACT NO. 744-S
MOUNT HEBRON SEWER MAIN EXTENSION
HOWARD COUNTY, CAPITAL PROJECT S-4-6037

PURDUM & JESCHKE ENGINEERS 1023 N. CALVERT ST. BALTIMORE, MARYLAND	DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND — DIRECTOR OF PUBLIC WORKS DATE 8-30-77; CHIEF BUREAU OF ENGINEERING DATE 8-29-77	CONTRACT NO. 744-S CAPITAL PROJECT NO. S-4-6037	LOCATION MAP OF SANITARY SEWERS	MOUNT HEBRON SEWER MAINS ELECTION DISTRICT NO. 2 HOWARD COUNTY, MARYLAND	DRAWING NO. 1 OF 14	SCALE As Shown	MAPS 234-42, 235-41, 235-42

W.O. 3367-10

April 10, 1978





BENCH MARKS

P & J B.M. # HENRY	ELEV. 320.188
R.R. Spike in 16" Oak 100'± N.W. of traverse P.I. "TR-8"	
P & J B.M. #FRED	ELEV. 347.277
R.R. Spike in 12" Oak 130'± N.W. of traverse P.I. "TR-6".	
P & J B.M. # MEL	ELEV. 412.05
* Cut on rim of Manhole #2660 117'± West of P.I. "A-1"	

STATE OF MARYLAND — BEVERLY A. JESCHKE — No. 3221 — PROFESSIONAL ENGINEER

CONTRACT NO. 744-S
MOUNT HEBRON SEWER MAIN EXTENSION
HOWARD COUNTY CAPITAL PROJECT S-4-6037

AS BUILT - MAY 1980

PURDUM & JESCHKE ENGINEERS 1023 N. CALVERT ST. BALTIMORE, MARYLAND	DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND — DIRECTOR OF PUBLIC WORKS: P.J. Rogers 8-30-77 DATE; CHIEF-BUREAU OF ENGINEERING: W.O. Gilbert 8-29-77 DATE	CONTRACT NO. 744-S CAPITAL PROJECT NO. S-4-6037	PLAN MOUNT HEBRON SEWER MAINS	MOUNT HEBRON SEWER MAINS ELECTION DISTRICT NO.2 HOWARD COUNTY, MARYLAND	DRAWING NO. 2 OF 14 — SCALE 1"=50' — Designed: REP, Drafted: ARZ, Checked: TAF

W.O. 3367-10

K&E BALTIMORE 17 0453 PHOENIX MC 1316

April 10, 1978

Match Line "E-E" See Drawing No. 2

NOT INCLUDED IN THIS CONTRACT

BENCH MARKS

P & J B.M. "100" ELEV. 445.038
+ Cut on road side Bonnet Bolt on Fire Hydrant 50'± South of Trav. P.I. "L-1A".

P & J B.M. "101" ELEV. 444.826
+ Cut on Road Side Bonnet Bolt on Fire Hydrant on Furrow Court 225'± N.E. of Trav. P.I. "L-2A" and 75'± S.W. of Trav. P.I. "L-3A"

P & J B.M. "102" ELEV. 380.625
Cut on Corner Electric Box 60'± S.E. of Trav. P.I. "L-5A"

P & J B.M. "103" ELEV. 398.222
+ Cut road side Bonnet Bolt on Fire Hydrant 27'± N.E. Trav. P.I. "L-6A"

P & J B.M. # BART ELEV. 400.670
R.R. Spike in 48" Oak 2'± N of traverse P.I. "TR 2".

P & J B.M. # CANE ELEV. 385.510
R.R. Spike in 18" Sycamore 35'± N.E. of traverse P.I. "TR 3".

Property of MOUNT HEBRON, INC. 558/727

Place Ungrouted Rip-Rap Over Erosion Control Fabric See Detail, Drawing No.7

Property of THOMAS R. SMITH & WIFE 889/374

Property of ROBERT C. DONNELLY & WIFE 679/75

Property of DONALD L. DAVIDSON 617/101

MOUNT HEBRON SECTION 13 P.B. 23, F. 50

MOUNT HEBRON SECTION 12 and A RESUBDIVISION OF LOT 27 SECTION 3 P.B. 21, F. 55

Baltimore Gas and Electric Company Right-of-Way WHH 472/60

CONTRACT NO. 744-S
MOUNT HEBRON SEWER MAIN EXTENSION
HOWARD COUNTY CAPITAL PROJECT S-4-6037

AS BUILT - JAN 15, 1980

PURDUM & JESCHKE ENGINEERS 1023 N. CALVERT ST. BALTIMORE, MARYLAND	DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND — DIRECTOR OF PUBLIC WORKS — DATE 8-30-77 — CHIEF-BUREAU OF ENGINEERING — DATE 8.29.77	CONTRACT NO. 744-S CAPITAL PROJECT NO. S-4-6037	PLAN MOUNT HEBRON SEWER MAINS	MOUNT HEBRON SEWER MAINS ELECTION DISTRICT NO.2 HOWARD COUNTY, MARYLAND	DRAWING NO. 3 OF 14	SCALE 1"=50'	Designed: REP Drafted: ARZ Checked: TAF

W.O. 3367-10

K&E BALTIMORE 17 0453 PHOENIX MC 1316

April 10, 1978

P.I. "TR-1"

Property of MT. HEBRON INC. 292/302-323/138

FOR PROFILE SEE DRAWING NO.12

Property of H. JAMES BAKER, et al. & MT. HEBRON INC. 213/338 323/138

See Drawing No.3

Match Line "G-G"

Match Line "H-H" See Drawing No.7

Match Line "F-F" See Drawing No.7

E 846,300

N 536,000

Ex. Fence

Place Unprotected Riprap Over Erosion Control Fabric See Detail, Drawing No.7

MOUNT HEBRON SECTION 12 P.B.21, F.55

Lot 1

C/P Pedestal

S.H.C. Sta. 1+71 Cover 14.0'

C=458.57 #9218

Ex. 15" C.M.P.

20' Drainage Easement

20' Right of Way

10' Construction Strips

PARK, DRAINAGE & UTILITY RESERVATION P.B.21, F.55

Stone Wall #9310

C=417.42

Flower Garden

Conc. Wall

Sta. OUT PARCEL "A" 1+90 P.B.21 @ F.55 Cover 12.0'

FUZZOW AVENUE

FOR PROFILE SEE DRAWING NO.13

Barn

Shed

Conc. Block Shed

Shed

Conc. Block Shed

Building P.I. "C9-1" Hub Set

318" Locust

Provide S.H.C. @ Manhole

Cover 6.0' S.H.C. Sta. 2+34.3

C=420.36

Lot 7

C=427.27 #9317

S.H.C. Sta. 1+00 Cover 12.0'

Elec. Box

C/P Pedestal

Lot 6

C=432.45 #9313

Cover 10.2' Sta. 0+25 D.H.C.

12' Paved Drive

MOUNT HEBRON SECTION 12 P.B.21, F.55

Lot 5

C=426.69 #9309

Flower Garden

Conc. Walk

S.H.C. Sta. 0+05 Cover 2.0'

Lot 4

Minimum Cellar = 419.8

Lot 3

Minimum Cellar = 421.4

S.H.C. Sta. 1+42 Cover 8.0'

Lot 2

Minimum Cellar = 429.4

S.H.C. Sta. 0+27 Cover 10.3'

Minimum Cellar = 438.0

S.H.C. Sta. 0+93 Cover 3.0'

G/E #261124

FUZZOW AVE.

Lot 27A

Fence Cor.

P.I. "L-2" Iron Pipe

Lot 28

Lot 29

Lot 30

MOUNT HEBRON SECTION 3 P.B.G, F.89

MOUNT HEBRON SECTION 2 P.B.G, F.24

Lot 22

Lot 23

Lot 24

Lot 25

Lot 26

C=454.76 #9222

C=458.91 #9218

C=464.68 #9214

C=469.63 #9210

C=452.83 #9229

C=458.89 #9223

C=469.50 #9221

C=471.41 #9217

C=477.76 #9213

Flower Garden

Shrub Garden

Cond. Walk

Conc. Wall

16' Paved Dr.

18' Paved Dr.

12' Paved Dr.

10' Paved Drive

15' Gravel Drive

Ex. 2"G.W (Cont. 71-W)

Ex. 2"G.W

Ex. Curbing

P.I. "L-3"

P.I. "L-1"

P.I. "L-2"

P.I. "E5-1"

P.I. "E5-2"

P.I. "E5-3"

P.I. "E5-4"

P.I. "C9-1"

P.I. in Top of Curb

P.I. Nail

P.I. Spike Set

P.I. "E5-3" R.R. Spike Set

P&J B.M. #2

P&J B.M. #3

P&J B.M. #TL-3

P&J B.M. #TL-4

P.U.E.

Existing Paving

Ex. 72" CMP

Ex. 2"G.W

Ex. 6"W

Ex. 6"G.W

Ex. 6"S

Ex. 8"S

Ex. 8"W

Ex. 12"W

Ex. 12"W (Cont. 71-W)

Ex. 12"S

Ex. 15"S

Ex. 18"S

Ex. 24"S

Ex. 30"S

Ex. 36"S

Ex. 42"S

Ex. 48"S

Ex. 54"S

Ex. 60"S

Ex. 72"S

Ex. 8"S (Cont. 85-S)

Ex. 12"W (Cont. 71-W)

P.O.L. 2+80.02

P.O.L. 1+51.93

Sta. 0+80 LIMIT OF CONSTRUCTION THIS CONTRACT

Connect to all S if existing sewer wise P.V.C. pipe.

Existing Gas, Electric, and Telephone Utilities in Common Trench.

C/P Pedestal

20' Right of Way

10' Construction Strips

FOR PROFILE SEE DRAWING NO.9

RESUBDIVISION LOT 27 MOUNT HEBRON SECTION 12 P.B.21, F.55

Lot 1

MOUNT HEBRON SECTION 4 P.B.G, F.89

Lot 33

Lot 34

FOR PROFILE SEE DRAWING NO.9

Lot 35

Lot 36

Lot 37

Lot 38

Lot 39

Lot 40

Lot 31

Lot 32

Provide S.H.C. @ Manhole

Provide S.H.C. @ 1.5% @ Manhole

Provide S.H.C. @ 1.0%

MAPLE ROCK DRIVE

ROCK MAPLE DRIVE

Lamp post

Lamp post #55

Lamp post #56

C=491.90

C=466.28

C=456.44

C=445.29

C=445.75

C=447.49

C=443.07

C=449.80

C=453.67

C=466.28

Mailbox Post #9229

Mailbox Slab #9257

Mailbox Slab #9264

Mailbox Slab #9268

Mailbox Slab #9272

Mailbox Slab #9265

Mailbox Slab #9261

Mailbox Slab #9256

Mailbox Slab #9252

Mailbox Slab #9224

House #9313

House #9305

House #9269

Property of MT. HEBRON INC. 292/302 323/138

Provide 2'-0" Stub up @ 2% and Plug

Future 8"S (by Others)

15' Construction Strip

15' Right of Way

N 535,250

E 847,500

Property of BERNARD ENIS, et al. 357/385 357/391

357/385

Fire Hydrant

Terminal Manhole

Ex. Manhole #2605

Ex. S.H.C.

Ex. 10" Maple

Ex. 2"G

Ex. Paving

Ex. 6"G

Ex. 6"W

Ex. 8"W

Ex. 12"W

Ex. 12"W (Cont. 71-W)

Ex. 12"S

Ex. 15"S

Ex. 18"S

Ex. 24"S

Ex. 30"S

Ex. 36"S

Ex. 42"S

Ex. 48"S

Ex. 54"S

Ex. 60"S

Ex. 72"S

Ex. 8"S (Cont. 85-S)

Ex. 12"W (Cont. 71-W)

Road Sign

Has Sewer Service

Gravel Dr.

Cond. Walk

Conc. Drive

Conc. Wall

Lot 6

Lot 5

HEBRON SECTION 1 P.B.5, F.99

MOUNT HEBRON SECTION 1 P.B.5, F.99

DRIVE

To P.I. "E5-5"

To P.I. "E5-4"

ROUTE 99

MARYLAND

Ex. 2"G

Ex. 6"G

Ex. 6"W

Ex. 8"W

Ex. 12"W

Ex. 12"W (Cont. 71-W)

Ex. 12"S

Ex. 15"S

Ex. 18"S

Ex. 24"S

Ex. 30"S

Ex. 36"S

Ex. 42"S

Ex. 48"S

Ex. 54"S

Ex. 60"S

Ex. 72"S

Ex. 8"S (Cont. 85-S)

Ex. 12"W (Cont. 71-W)

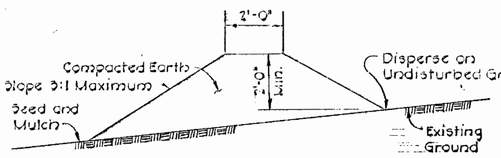
BENCH MARKS

P & J B.M. #2	ELEV. 424.594
Road side Bonnet Bolt on F.H. South Side of Furrow Ave. between traverse L-1 to L-2	
P & J B.M. #3	ELEV. 469.309
Road side Bonnet Bolt of F.H., South Side of Furrow Avenue between Houses #9217 and #9221	
P & J B.M. #TL-3	ELEV. 456.148
Road side Bonnet Bolt on F.H. at end of cul-de-sac on Maple Rock Drive	
P & J B.M. #TL-4	ELEV. 459.286
N.E. Corner of mail box slab #9257 Maple Rock Court	

PLAN
Scale: 1" = 50'

HOT INCLUDED IN THIS CONTRACT

Diversion Berms are required every 250 feet on continuous slopes of 4% or greater. The berms shall conform to the typical section shown hereon and shall be constructed across the construction area immediately after the backfilling of the pipe trench and prior to placing stabilization in order to prevent erosion of the backfilled area.



TEMPORARY EARTH DIVERSION BERM
No Scale

CONTRACT NO. 744-S
MOUNT HEBRON SEWER MAIN EXTENSION
HOWARD COUNTY CAPITAL PROJECT S-4-6037

PURDUM & JESCHKE ENGINEERS 1023 N. CALVERT ST. BALTIMORE, MARYLAND	DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND — DIRECTOR OF PUBLIC WORKS 8-30-77 DATE; CHIEF-BUREAU OF ENGINEERING 8-29-77 DATE	CONTRACT NO. 744-S CAPITAL PROJECT NO. S-4-6037	PLAN AND DETAILS MOUNT HEBRON SEWER MAINS	MOUNT HEBRON SEWER MAINS ELECTION DISTRICT NO.2 HOWARD COUNTY, MARYLAND	DRAWING NO. 4 OF 14	SCALE As Shown	Designed: REP Drafted: ARZ Checked: TAF

W.O. 3367-10

K&E BALTIMORE 17 0459 PHOENIX MC 1316

April 10, 1978

AS-BUILT - AUG 15 1980

BENCH MARKS

B.M. #11 — ELEV. 417.200
Roadside Bonnet Bolt on F.H. in front of house #2242, Mt. Hebron Dr.

B.M. #12 — ELEV. 431.048
Roadside Bonnet Bolt on F.H. in front of house #2214 and opposite house #2215, Mt. Hebron Drive

B.M. #15 — ELEV. 370.777
Road side Bonnet Bolt on F.H. in front of house #2197, Mt. Hebron Ct.

B.M. #16 — ELEV. 399.581
Road side Bonnet Bolt on F.H. opposite house #2121 on Mt. Hebron Drive

CONTRACT NO. 744-S
MOUNT HEBRON SEWER MAIN EXTENSION
HOWARD COUNTY CAPITAL PROJECT S-4-6037

AS BUILT - JAN 15, 1980

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

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND
P.J. Regan Jr. 8-30-77 — DIRECTOR OF PUBLIC WORKS — DATE
W.O. Filbert 8-29-77 — CHIEF-BUREAU OF ENGINEERING — DATE

CONTRACT NO. 744-S
CAPITAL PROJECT NO. S-4-6037

PLAN
MOUNT HEBRON SEWER MAINS

MOUNT HEBRON SEWER MAINS
ELECTION DISTRICT NO. 2
HOWARD COUNTY, MARYLAND

DRAWING NO. 5 OF 14

SCALE 1"=50'

Designed: REP
Drafted: ARZ
Checked: TAF

W.O. 3362-10

K&E BALTIMORE 17 0453 PHOENIX MC 1316

April 10, 1978

BENCH MARKS

P & J B.M. #6	Elev. 448.106
Rim of Water Meter in yard of house #2325, Mount Hebron Drive.	
P & J B.M. #7	ELEV. 433.981
Roadside Bonnet Bolt on F.H. opposite house #2313, Mt. Hebron Dr.	
P & J B.M. #10	ELEV. 399.800
3 20d nails in G & E Pole #398048, 55'± N.W. OF Trav. "L-15"	
P & J B.M. #17	ELEV. 423.784
Rim of Water Meter, house #2109, Mt. Hebron Drive	
P & J B.M. #18	ELEV. 433.678
Roadside Bonnet Bolt on F.H. at house #2100 near end of Mt. Hebron Drive.	

CONTRACT NO. 744-S
MOUNT HEBRON SEWER MAIN EXTENSION
HOWARD COUNTY CAPITAL PROJECT S-4-6037

AS BUILT JAN 15 1980

PURDUM & JESCHKE ENGINEERS 1023 N. CALVERT ST. BALTIMORE, MARYLAND	DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND P J Regan 8-30-77 — DIRECTOR OF PUBLIC WORKS, DATE W O Talbert 8-29-77 — CHIEF-BUREAU OF ENGINEERING, DATE	CONTRACT NO. 744-S CAPITAL PROJECT NO. S-4-6037	PLAN MOUNT HEBRON SEWER MAINS	MOUNT HEBRON SEWER MAINS ELECTION DISTRICT NO. 2 HOWARD COUNTY, MARYLAND	DRAWING NO. 6 OF 14	SCALE 1"=50'
					Designed: REP Drafted: ARZ Checked: TAF	

W.O. 3367-10

K&E BALTIMORE 17 0453 PHOENIX MC 1316

April 10, 1978

BENCH MARKS

P & J B.M. #4	Elev. 489.431
Road side Bonnet Bolt on FH, West side of Mt. Hebron Drive opposite house #2425 and C & P Pole #2.	
P & J B.M. #5	Elev. 481.182
Road side Bonnet Bolt on FH at Mt. Hebron Drive and Calvin Circle.	
P & J B.M. #P-3	Elev. 437.26
R.R. Spike in G & E Pole #274302, 36'± West of P.I. "CS-1".	
P & J B.M. #P-4	Elev. 463.35
P.K. Nail in the top curb west side Calvin Circle 33'± northeast of P.I. "CS-3".	

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 75 pounds.

NOTE:
Erosion Control Fabric shall be Poly-Filter X as manufactured by Carthage Mills, Inc., Permealiner M-1195 as manufactured by Staff Industries, Inc, or equal.

Maintain 1'-0" minimum clearance between Rip-Rap and Top of Pipe

UNGROUTED RIP-RAP DETAIL
No Scale

SECTION A-A
FILL AT MANHOLE
No Scale

CONTRACT NO. 744-S
MOUNT HEBRON SEWER MAIN EXTENSION
HOWARD COUNTY CAPITAL PROJECT S-4-6037

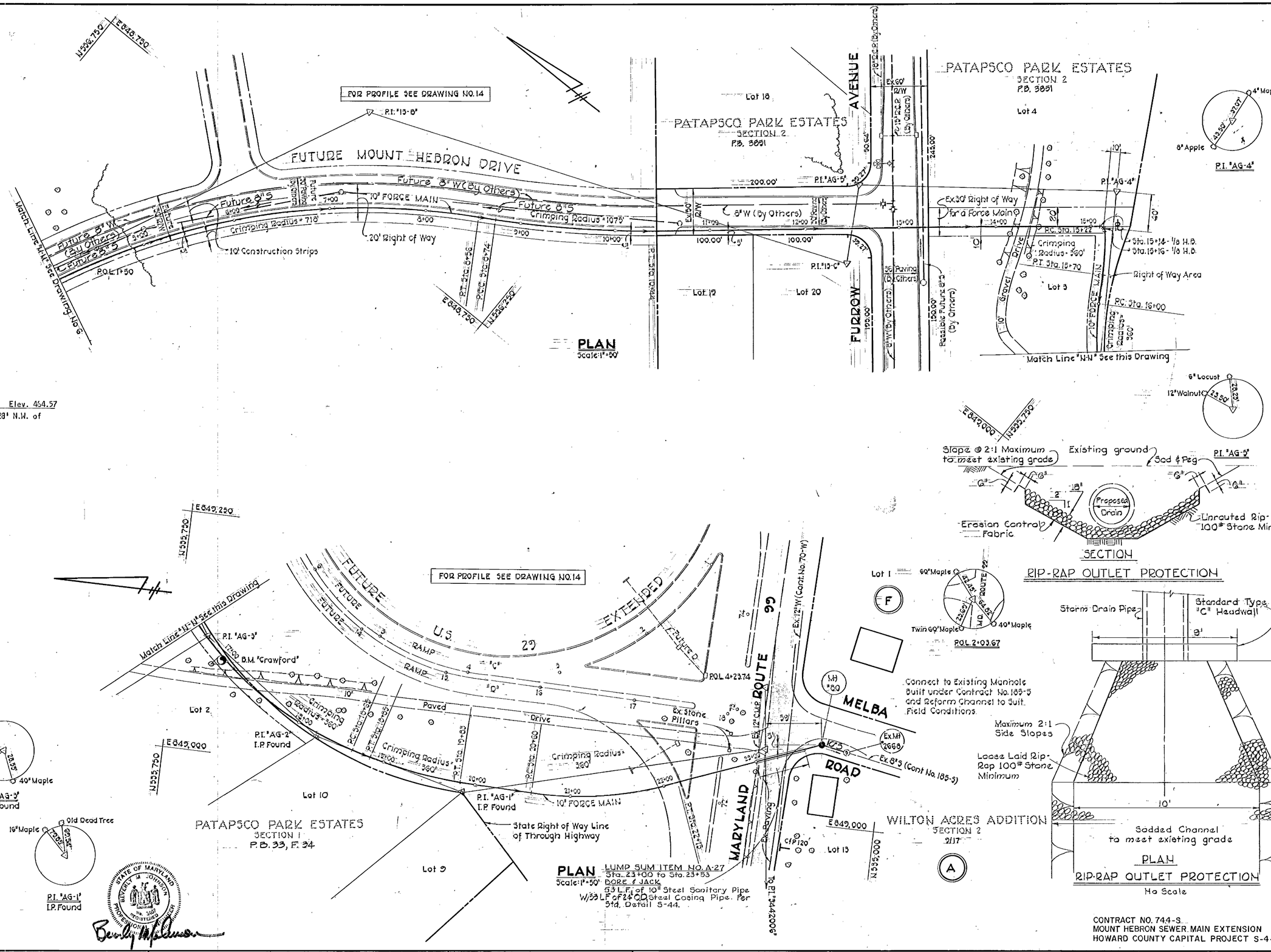
AS-BUILT JAN 15 1980

PURDUM & JESCHKE ENGINEERS 1023 N. CALVERT ST. BALTIMORE, MARYLAND	DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND — P.J. Regan Jr. 8-30-77 DIRECTOR OF PUBLIC WORKS DATE — W.O. Filbert 8-29-77 CHIEF-BUREAU OF ENGINEERING DATE	CONTRACT NO. 744-S CAPITAL PROJECT NO. S-4-6037	PLAN AND DETAILS MOUNT HEBRON SEWER MAINS	MOUNT HEBRON SEWER MAINS ELECTION DISTRICT NO.2 HOWARD COUNTY, MARYLAND	DRAWING NO. 7 OF 14	SCALE As Shown	Designed: REP Drafted: ARZ Checked: TAF

W.O. 3367-10

K&E BALTIMORE 17 0453 PHOEHIX MC 1316

April 10, 1978



B.M. "Crawford" Elev. 464.57
R.R. spike set in 30" Maple 28' N.W. of P.I. "AG-3".

Connect to Existing Manhole Built under Contract No. 185-S and Reform Channel to Suit Field Conditions.

CONTRACT NO. 744-S
MOUNT HEBRON SEWER MAIN EXTENSION
HOWARD COUNTY CAPITAL PROJECT S-4-6037

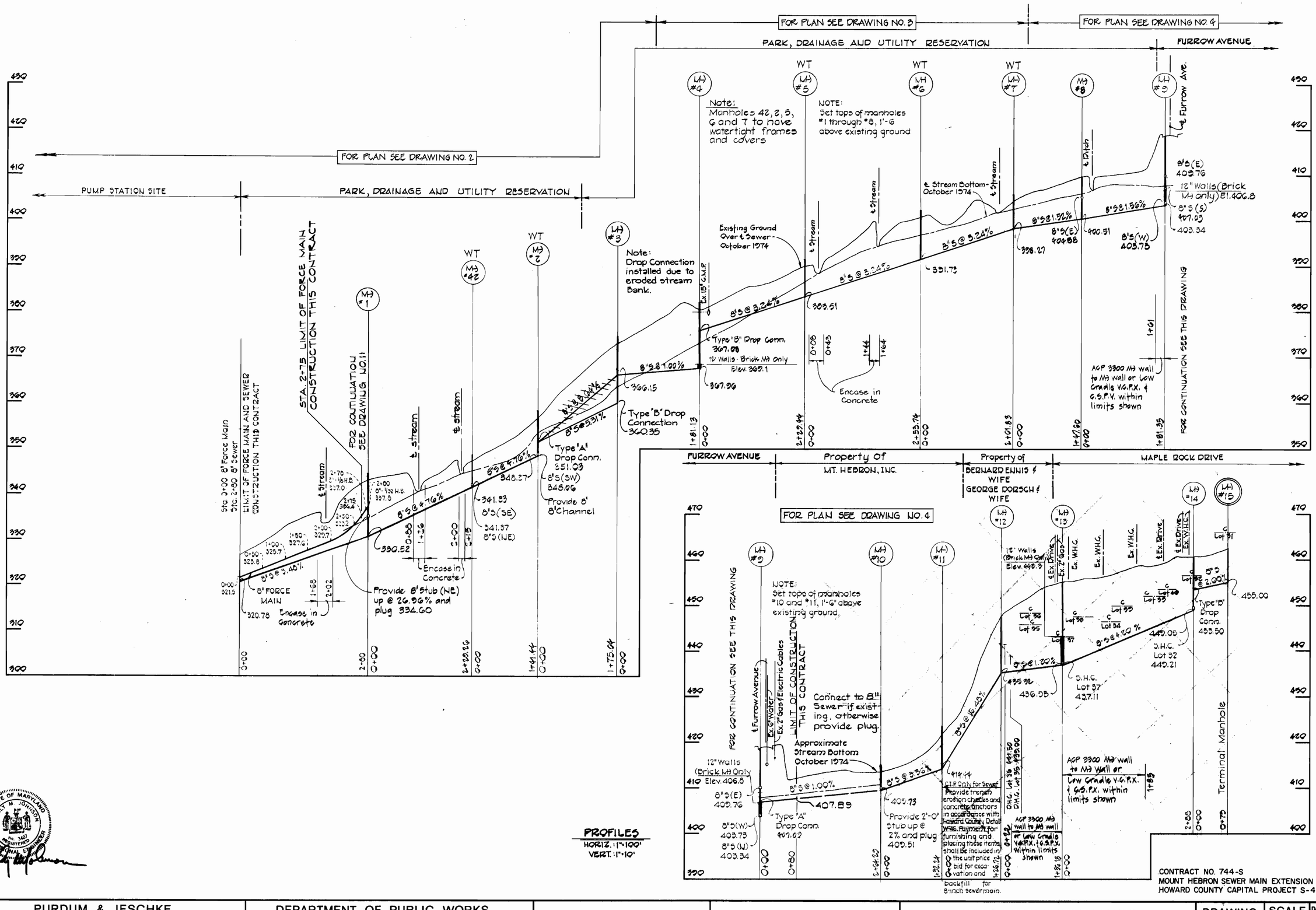
PURDUM & JESCHKE ENGINEERS 1023 N. CALVERT ST. BALTIMORE, MARYLAND	DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND DIRECTOR OF PUBLIC WORKS DATE 8-30-77 — CHIEF-BUREAU OF ENGINEERING DATE 8-29-77	CONTRACT NO. 744-S CAPITAL PROJECT NO. S-4-6037	PLAN MOUNT HEBRON SEWER MAINS	MOUNT HEBRON SEWER MAINS ELECTION DISTRICT NO. 2 HOWARD COUNTY, MARYLAND	DRAWING NO. 8 OF 14	SCALE 1"=50'	Designed: REP Drafted: ARZ Checked: TAF

W.O. # 3367-10

K&E BALTIMORE 17 0453 PHOENIX MC 3343+

April 10, 1978

AS-BUILT-JAN 15, 1980



STATE OF MARYLAND
BEVERLY M. JOHNSON
No. 3407
REGISTERED
PROFESSIONAL ENGINEER

CONTRACT NO. 744-S
MOUNT HEBRON SEWER MAIN EXTENSION
HOWARD COUNTY CAPITAL PROJECT S-4-6037

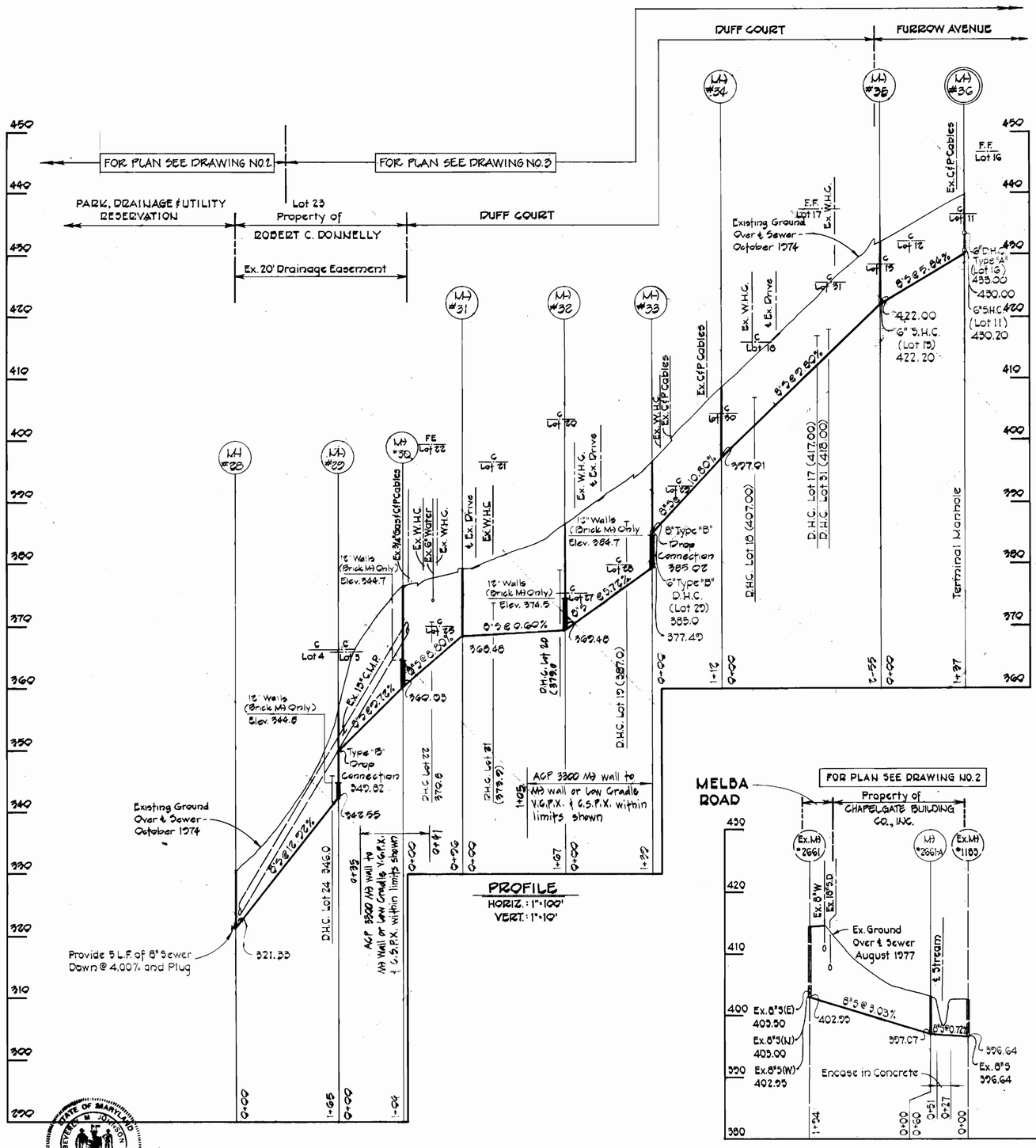
PURDUM & JESCHKE ENGINEERS 1023 N. CALVERT ST. BALTIMORE, MARYLAND	DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND DIRECTOR OF PUBLIC WORKS — DATE 8-30-77 CHIEF-BUREAU OF ENGINEERING — DATE 9-29-77	CONTRACT NO. 744-S CAPITAL PROJECT NO. S-4-6037	PROFILES OF SEWER AND FORCE MAINS	MOUNT HEBRON SEWER MAINS ELECTION DISTRICT NO. 2 HOWARD COUNTY, MARYLAND	DRAWING NO. 9 OF 14	SCALE: As Shown Designed: REP Drafted: REC Checked: TAF

W.O. # 3367-10

K&E BALTIMORE 17 0483 PHOENIX MC 3343

April 10, 1978

AS BUILT - JAN 15, 1980



CONTRACT NO. 744-S
MOUNT HEBRON SEWER MAIN EXTENSION
HOWARD COUNTY CAPITAL PROJECT S-4-6037

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

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND
DIRECTOR OF PUBLIC WORKS — DATE 8-30-77
CHIEF-BUREAU OF ENGINEERING — DATE 8-29-77

CONTRACT NO. 744-S
CAPITAL PROJECT NO. S-4-6037

PROFILES OF SEWER MAINS

MOUNT HEBRON SEWER MAINS
ELECTION DISTRICT NO. 2
HOWARD COUNTY, MARYLAND

DRAWING NO. 10 OF 14

SCALE As Shown

Designed: REP
Drafted: REC
Checked: TAF

W.O. #33GT-10

K&E BALTIMORE 17 0453 PHOENIX MC 3343+

April 10, 1978

FOR PLAN SEE DRAWING NO. 6

FOR PLAN SEE DRAWING NO. 5

MT. HEBRON DRIVE

MT. HEBRON COURT

FUTURE PATAPSCO PARK ESTATES-SEC. 4 End Exist. Paving

10" Force Main

8"S @ 1.00% — 8"S @ 2.44% — 8"S @ 3.20% — 8"S @ 1.00% — 8"S @ 8.76% — 8"S @ 2.08% — 8"S @ 21.57% — 8"S @ 1.00%

Ex. W.H.C. — Ex. 8" Water — Ex. Drive — Ex. 15" R.C.P.

Lot 17 — Lot 16 — Lot 15 — Lot 14 — Lot 13 — Lot 12 — Lot 11 — Lot 10 — Lot 9 — Lot 8 — Lot 7 — Lot 6 — Lot 5 — Lot 4 — Lot 3 — Lot 2 — Lot 1 — Lot 20 — Lot 21 — Lot 22

MH #27 — MH #26 — MH #25 — MH #24 — MH #23 — MH #19 — MH #18 — MH #17 — MH #16

6" Plug 417.23 — 416.01 — 417.05 — 401.19 — 410.84 — 12" Walls (Brick MH Only) Elev. 408.3 — Type "B" Drop Conn. 388.66 — 12" Walls (Brick MH Only) Elev. 388.2 — 12" Walls (Brick MH Only) Elev. 373.2 — 371.00 — 362.40 — 346.28 — 341.91 — 321.20 — 319.27

D.H.C. Lot 14 2+10 397.4 — D.H.C. Lot 13 3972 — D.H.C. Lot 12 2+30 376.6 — D.H.C. Lot 11 1+78 363.0 — D.H.C. Lot 10 0+30 375.5 — D.H.C. Lot 17 1+50 363.0 — D.H.C. Lot 9 1+26 4150

ACP 3300 MH Wall to MH Wall or Low Cradle VCPX and CSPX within limits shown.

Type "B" Drop Conn. 411.00 — 8" F.M. 408.98 — 407.08 — 407.08 — 8"S (SW) 407.08

Type "B" Drop Conn 340.81 — 6"S H.C. Lot 13 347.4

Existing Ground Over & Sewer - October 1974

Property of WILLIAM A. VENDETTI & wife

Park, Drainage, and Utility Reservation

Property of PATAPSCO ASSOCIATES LIMITED PARTNERSHIP

Connect to 8" F.M. if existing otherwise Provide 8" Channel (SW) 420.64

LIMIT OF SEWER CONSTRUCTION THIS CONTRACT

Note
Set top of manhole #16, 1'-6" above existing ground.

Provide 25 L.F. 8" Stub down @ 6.67%, Connect to 8"S if existing (Contract 74S-S) otherwise provide plug.

C.I.P. Only for Sewer.
Provide trench erosion checks and concrete anchors in accordance with Howard County Detail W-46. Payment for furnishing and placing these items shall be included in the unit prices bid for excavation and backfill for 8-inch sewer mains

FOR CONTINUATION SEE THIS DRAWING

For Continuation, See This Drawing — Terminal Manhole — 2+74

Existing Ground Over & Sewer - October 1974

8"S @ 8.00% — 8"S @ 6.50% — 12" Walls (Brick MH Only) Elev. 373.2 — 376.96 — 369.48

Ex. 24" Gas — Ex. 6" Water — Mt. Hebron Ct.

FOR PLAN SEE DRAWING NO. 5

MT. HEBRON DRIVE

Park, Drainage, and Utility Reservation — Property of WILLIAM C. HEYMANN & WIFE

FOR PLAN SEE DRAWING NO. 2

G+00 411.0 — G+12 - 1/16 H.B. 412.1 — G+10 - 1/16 H.B. 412.0 — 8"S (NW & SE) 407.08 — 407.08

Existing Ground Over & Sewer - August 1976

8"S @ 13.36% — 3+00 393.9 — 389.63 — 389.60 — 4+50 380.6 — 4+00 387.2

LIMIT OF FORCE MAIN & SEWER CONSTRUCTION THIS CONTRACT

8" FORCE MAIN

Connect 8" Force Main and 8" Sewer if existing, otherwise provide plugs

FOR CONTINUATION SEE DRAWING NO. 9

3+10 343.8 — 341.34 — 3+00 341.0

2+80 6"S 1/32 H.B. 337.0 — 2+78 6"S 1/16 H.B. 337.0 — 6"S (SE & SW) 330.52

Type "B" Drop Conn. 334.60

C.I.P. Only for Sewer
Provide trench erosion checks and concrete anchors in accordance with Howard County Detail W-46. Payment for furnishing and placing these items shall be included in the unit prices bid for excavation and backfill for 8-inch sewer mains and 8-inch force mains.

FOR CONTINUATION SEE THIS DRAWING

FOR PLAN SEE DRAWING NO. 5

MT. HEBRON DRIVE

MH #68 — MH #67 — MH #69 — MH #70 — MH #71 — MH #22

Existing Ground Over & Sewer - October 1974

Ex. W.H.C. — Ex. Drive — Ex. 8"S W — Ex. 8"W (E.H.C.)

8" FORCE MAIN 8"S @ 2.80% — 8"S @ 4.12% — 8"S @ 4.12% — 8" D.H.C. Lot 7 418.00 — 414.50 — 417.92

Type "B" Drop Conn 411.00 — 408.98 — 407.08 — 407.08 — 8"S (SW) 407.08 — 420.64 — 8"S (E) 420.64 — 420.64 — 419.1

Terminal Manhole 2+37 — Terminal Manhole — For Continuation See This Drawing

PROFILES
HORIZ. 1"=100'
VERT. 1"=10'

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

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND
DIRECTOR OF PUBLIC WORKS — 8-30-77 DATE — CHIEF-BUREAU OF ENGINEERING — 8-29-77 DATE

CONTRACT NO. 744-S
CAPITAL PROJECT NO. S-4-6037

PROFILES OF SEWER AND FORCE MAINS

MOUNT HEBRON SEWER MAINS
ELECTION DISTRICT NO. 2
HOWARD COUNTY, MARYLAND

DRAWING NO. 11 OF 14

SCALE As Shown

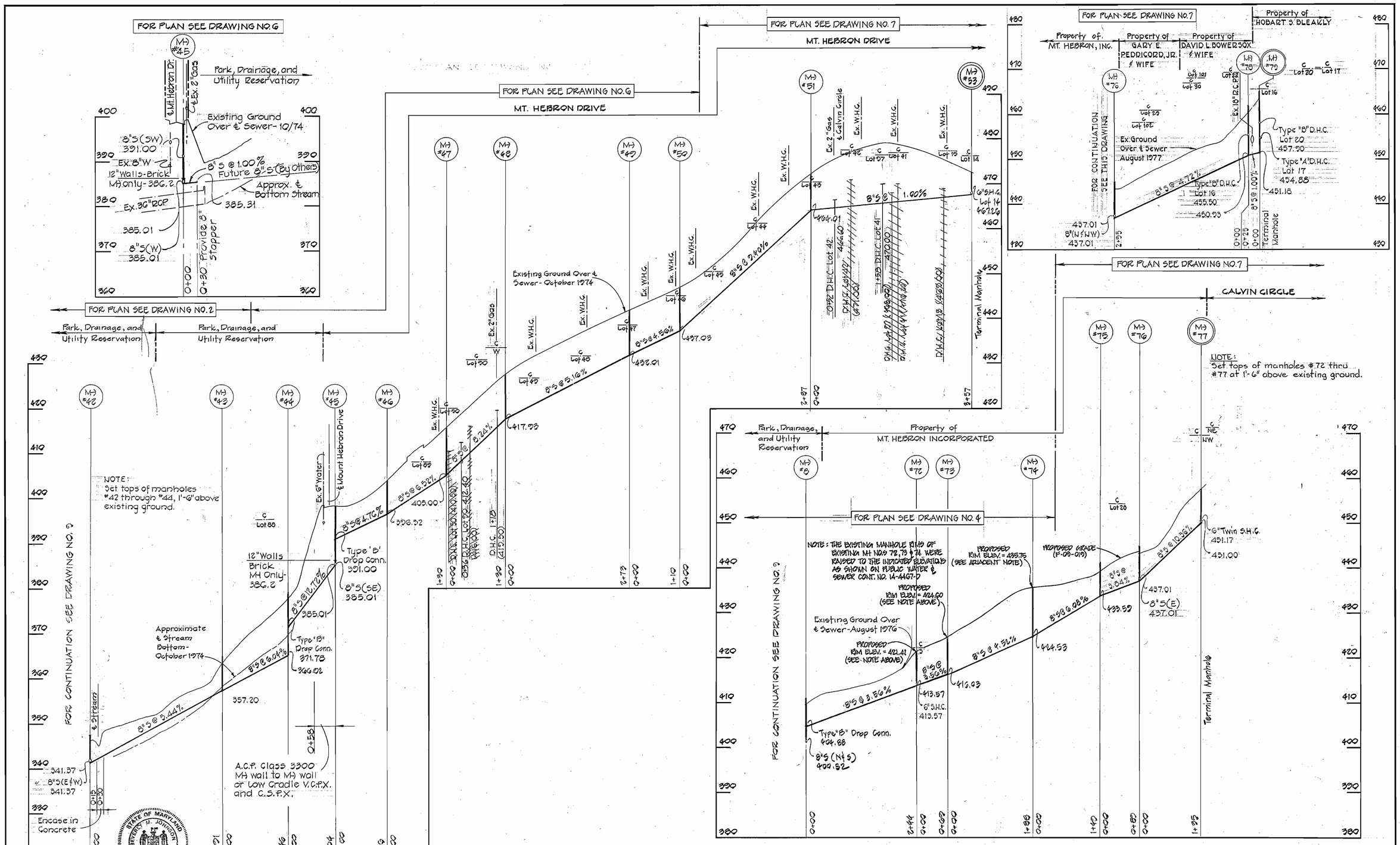
Designed: REP
Drafted: REC
Checked: TAF

K&E BALTIMORE 17 0483 PHOENIX MC 3543-

W.O. 3567-10

April 10, 1978

AS BUILT - JAN 15, 1980



PROFILES
HORIZ. 1"=100'
VERT. 1"=10'

CONTRACT NO. 744-S
MOUNT HEBRON SEWER MAIN EXTENSION
HOWARD COUNTY CAPITAL PROJECT S-4-6037

STATE OF MARYLAND — BEVERLY M. JOHNSON — No. 3807 — REGISTERED PROFESSIONAL ENGINEER

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

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND
DIRECTOR OF PUBLIC WORKS — DATE 8-30-77
CHIEF-BUREAU OF ENGINEERING — DATE 8-29-77

CONTRACT NO. 744-S
CAPITAL PROJECT NO. S-4-6037

PROFILES OF SEWER MAINS

MOUNT HEBRON SEWER MAINS
ELECTION DISTRICT NO. 2
HOWARD COUNTY, MARYLAND

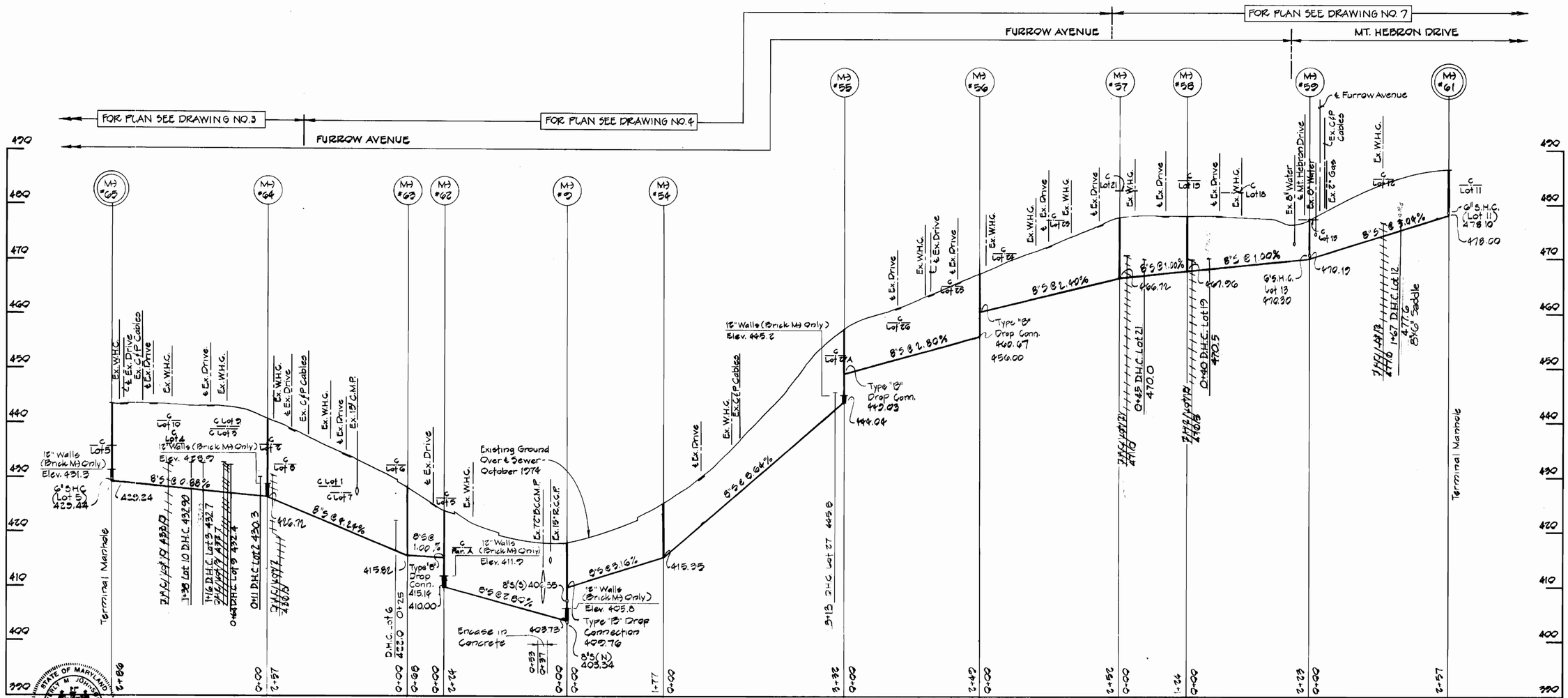
DRAWING NO. 12 OF 14
SCALE As Shown
Designed: REP
Drafted: REC
Checked: TAF

K&E BALTIMORE 17 0453 PHOENIX MC 3343•

W.O. #3367-10

April 10, 1978

WS 744-S/12



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

CONTRACT NO. 744-S
MOUNT HEBRON SEWER MAIN EXTENSION
HOWARD COUNTY CAPITAL PROJECT S-4-6037

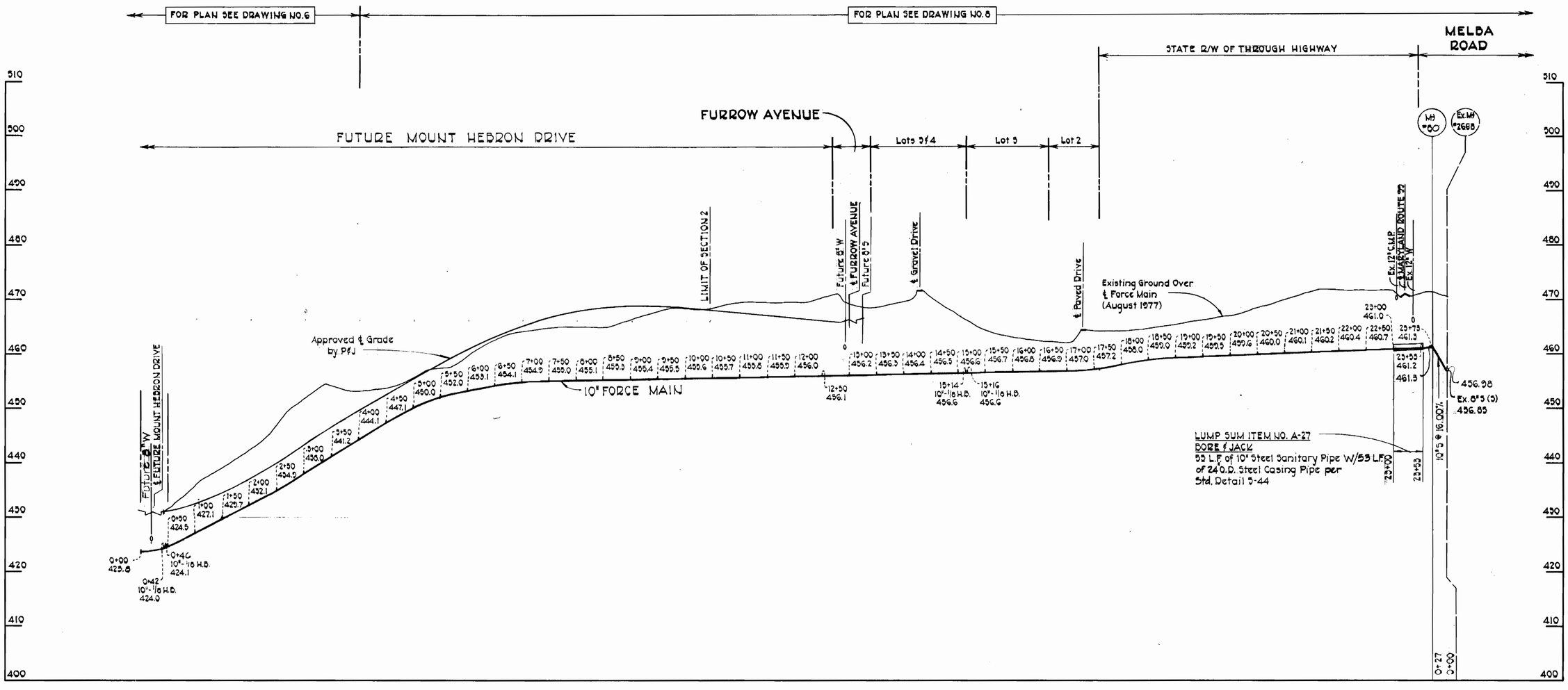
AS BUILT-JAN 15, 1980

PURDUM & JESCHKE ENGINEERS 1023 N. CALVERT ST. BALTIMORE, MARYLAND	DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND	CONTRACT NO. 744-S CAPITAL PROJECT NO. S-4-6037	PROFILES OF SEWER MAINS	MOUNT HEBRON SEWER MAINS ELECTION DISTRICT NO. 2 HOWARD COUNTY, MARYLAND	DRAWING NO. 13 OF 14	SCALE As Shown	Designed: REP Drafted: REC Checked: TAF
	DIRECTOR OF PUBLIC WORKS 8-30-77 DATE; CHIEF-BUREAU OF ENGINEERING 8-29-77 DATE						

W.O. #3367-10

K&E BALTIMORE 17 0453 PHOENIX MC 3343

April 10, 1978



PROFILE

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

CONTRACT NO. 744-S
MOUNT HEBRON SEWER MAIN EXTENSION
HOWARD COUNTY CAPITAL PROJECT S-4-6037

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

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND
DIRECTOR OF PUBLIC WORKS — DATE 8-30-77
CHIEF-BUREAU OF ENGINEERING — DATE 8-29-77

CONTRACT NO. 744-S
CAPITAL PROJECT NO. S-4-6037

PROFILES
MOUNT HEBRON FORCE MAIN

MOUNT HEBRON SEWER MAINS
ELECTION DISTRICT NO. 2
HOWARD COUNTY, MARYLAND

DRAWING NO. 14 OF 14

SCALE As Shown

Designed: REP
Drafted: ARZ
Checked: TAF

AS BUILT JAN 15, 1980

W.O. #5367-10

K&E BALTIMORE 17 0453 PHOENIX MC 3343+

April 10, 1978