

DESIGN FLOW TABULATION CHART

AREA SYMBOL	AREA ACRES	POPULATION ULTIMATE	ULT. AVG. NON-DOMESTIC SEWAGE FLOW (M.G.D.)	ULT. AVG. DOMESTIC SEWAGE FLOW (M.G.D.)	ULT. PEAK FLOW (M.G.D.)	PEAK INDUSTRIAL WASTE FLOW (M.G.D.)	DESIGN FLOW (M.G.D.)
A	1,818	7,400	0.019	0.833	2.620	0.075	2.695
B	1,980	6,641	0.002	0.757	2,530	0.010	2,540
A-B	3,798	14,041	0.021	1,590	4,680	0.085	4,765
C	172	1,278	0.032	0.117	0.470	0.120	0.590
A-C	3,970	15,319	0.053	1,707	5,010	0.213	5,223
D	553	3,813	0.010	0.478	1,620	0.040	1,660
A-D	4,523	19,132	0.063	2,185	6,060	0.254	6,314
E	809	5,232	0.059	0.545	1,965	0.236	2,201
A-E	5,332	24,364	0.122	2,730	7,270	0.492	7,762

1) Ultimate sewage flow incorporates effluent contributed to sanitary sewer by Hammond Park Middle and Elementary School of 1400 pupils using 35 gallons/day per student.

DESCRIPTION	QUANTITIES	"AS BUILT"
24-inch Sewer	5 L.F.	0
21-inch Sewer	4,415 L.F.	4,361 L.F.
12-inch Sewer	5 L.F.	0
8-inch Sewer	21,705 L.F.	20,559 L.F.
6-inch Sewer	4,550 L.F.	5,465 L.F.
Manholes	1,255 V.F.	1,162 V.F.

CONTRACT NO. 531-S
HAMMOND BRANCH SANITARY SEWERS
HOWARD COUNTY, MARYLAND
DEPARTMENT OF PUBLIC WORKS



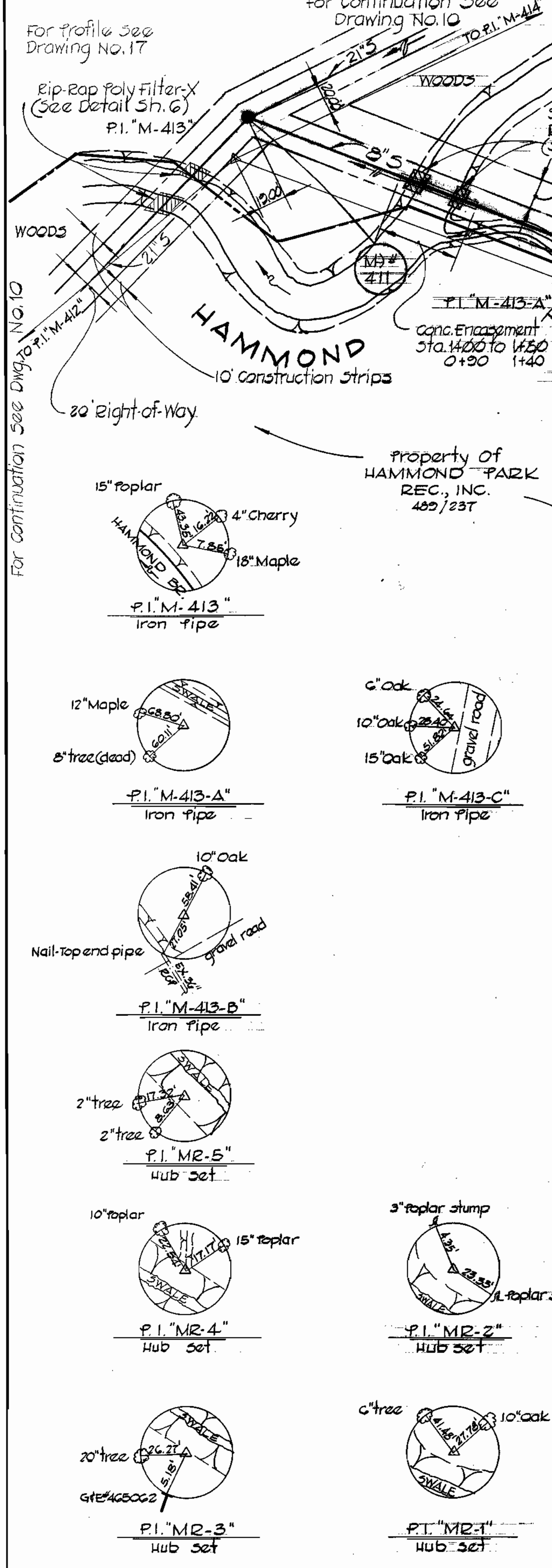
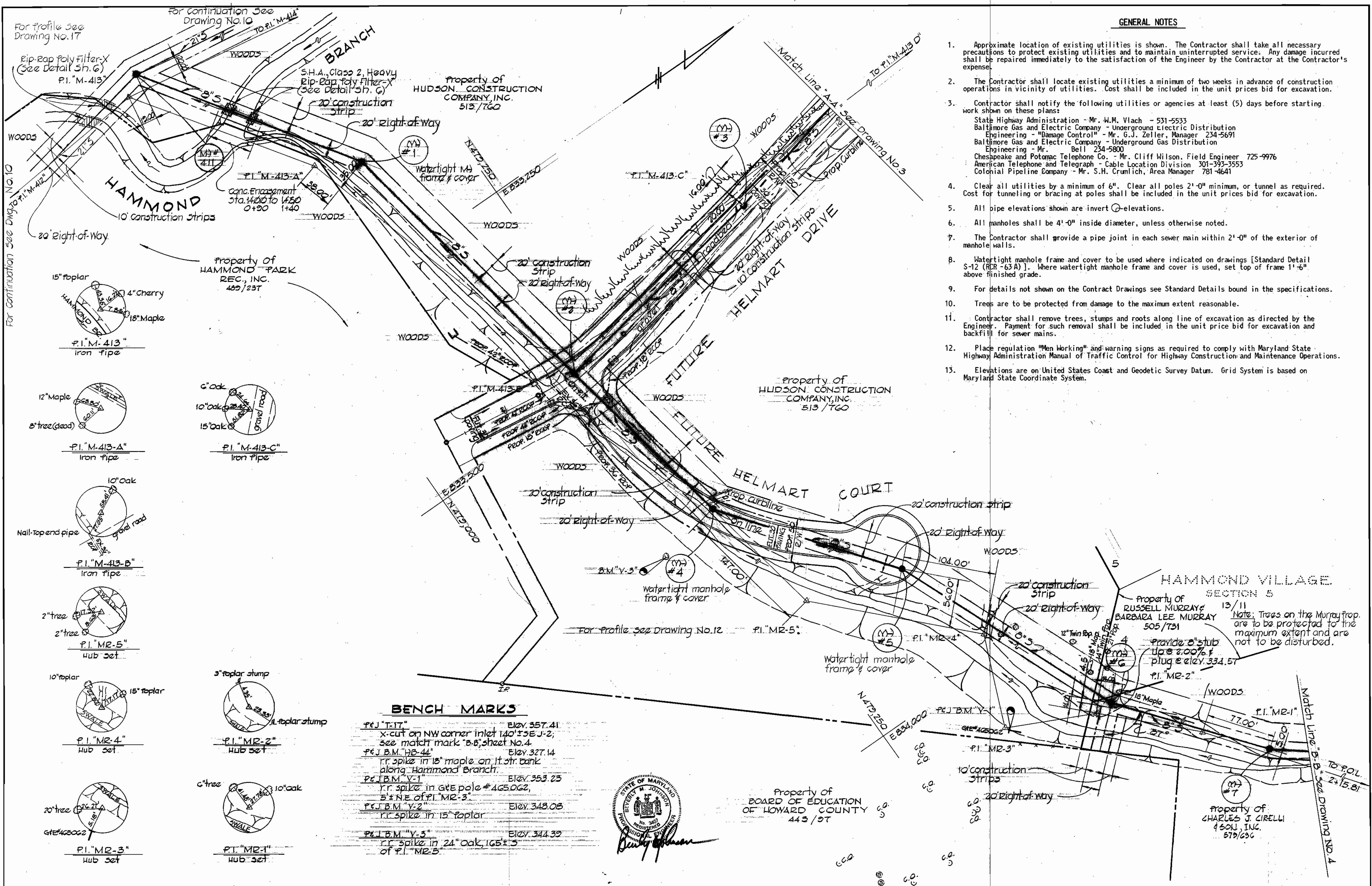
PURDUM & JESCHKE ENGINEERS 1023 N. CALVERT ST. BALTIMORE, MARYLAND	DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND 8-7-73 DATE W.D. Ellert CHIEF	CONTRACT NO. 531-S	LOCATION MAP OF SANITARY SEWERS	ELECTION DISTRICT NO. 6	DRAWING NO. 1 OF 17 SCALE AS SHOWN	POSITION SHEETS 1, 3, 4, 5, 7, 8, 9, 10, 14, 15, 17, 22, 23, 27
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WS 531-S/1

"AS BUILT" 9-30-76

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.
3. Contractor shall notify the following utilities or agencies at least (5) days before starting work shown on these plans:
 State Highway Administration - Mr. W.M. Vlach - 531-5533
 Baltimore Gas and Electric Company - Underground Electric Distribution Engineering - "Damage Control" - Mr. G.J. Zeller, Manager 234-5691
 Baltimore Gas and Electric Company - Underground Gas Distribution Engineering - Mr. Bell 234-5800
 Chesapeake and Potomac Telephone Co. - Mr. Cliff Wilson, Field Engineer 725-9976
 American Telephone and Telegraph - Cable Location Division 301-393-3553
 Colonial Pipeline Company - Mr. S.H. Crumlich, Area Manager 781-4641
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.
5. All pipe elevations shown are invert elevations.
6. All manholes shall be 4'-0" inside diameter, unless otherwise noted.
7. The Contractor shall provide a pipe joint in each sewer main within 2'-0" of the exterior of manhole walls.
8. Watertight manhole frame and cover to be used where indicated on drawings [Standard Detail S-12 (RER-63A)]. 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 reasonable.
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. Elevations are on United States Coast and Geodetic Survey Datum. Grid System is based on Maryland State Coordinate System.



BENCH MARKS

P&J T-17"	Elev. 357.41
x-cut on NW corner inlet 140'± SE J-2; see match mark "b.b." sheet No. 4	
P&J B.M. "B-44"	Elev. 327.14
r.r. spike in 18" maple on lit. str. bank along Hammond Branch	
P&J B.M. "Y-1"	Elev. 353.23
r.r. spike in gas pole # 465062, 5'± NE of P.I. MR-3	
P&J B.M. "Y-2"	Elev. 348.08
r.r. spike in 15" Poplar	
P&J B.M. "Y-3"	Elev. 344.39
r.r. spike in 24" oak, 165'± S of P.I. MR-5	



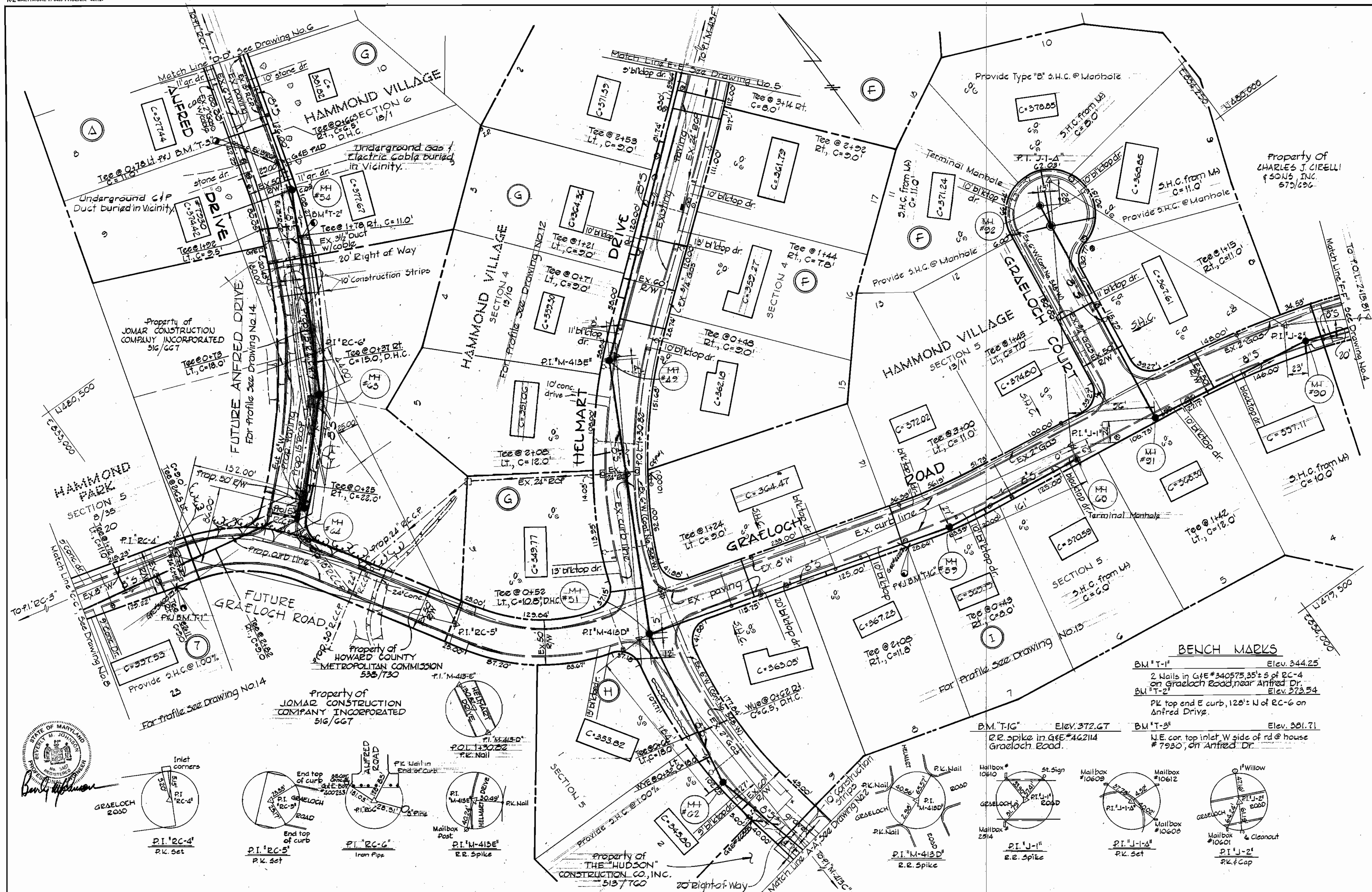
Property of BOARD OF EDUCATION OF HOWARD COUNTY 443/97

HAMMOND VILLAGE SECTION 5
 Property of RUSSELL MURRAY & BARBARA LEE MURRAY 505/731
 Note: Trees on the Murray prop. are to be protected to the maximum extent and are not to be disturbed.
 Provide 8" stub up @ 2.00% plug & elev. 334.57
 P.I. MR-2"

WS 531-S/2

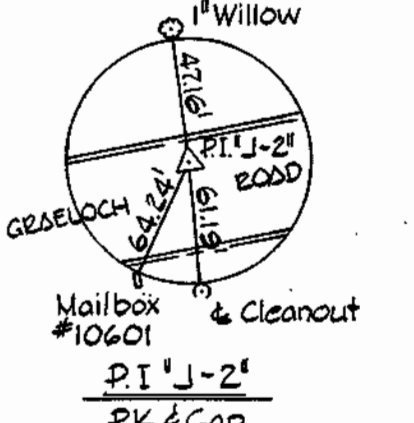
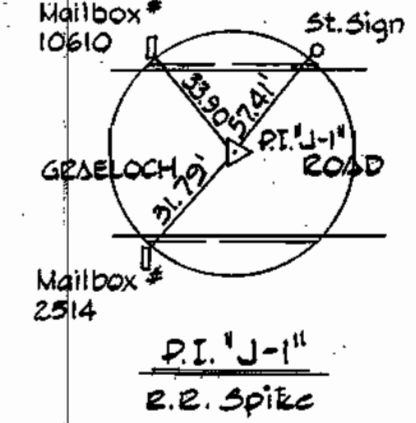
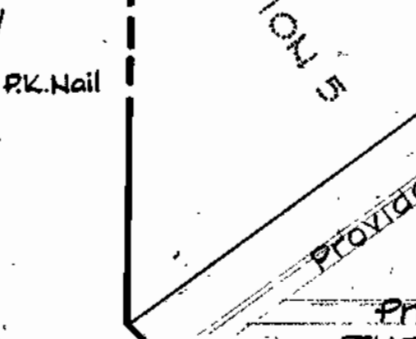
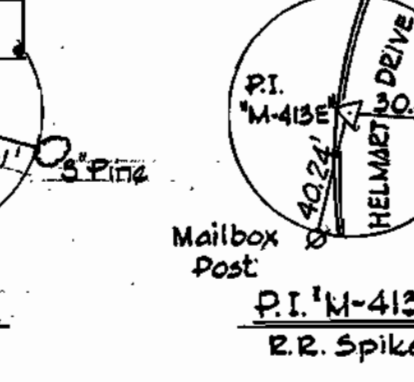
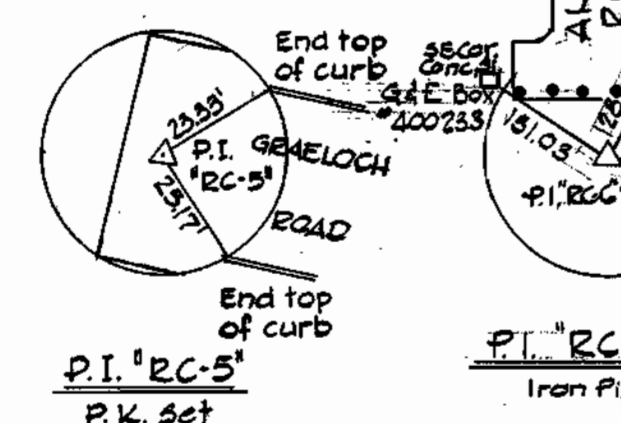
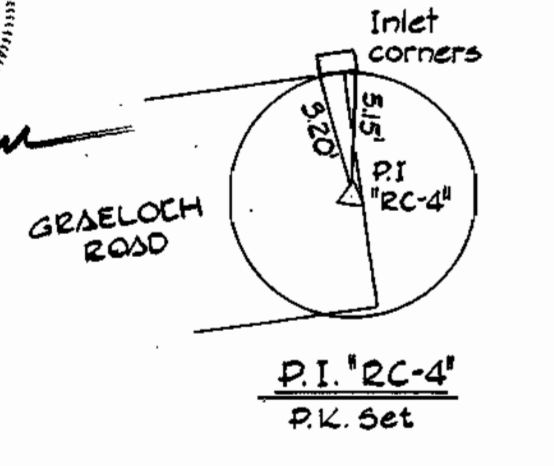
PURDUM & JESCHKE ENGINEERS 1023 N. CALVERT ST. BALTIMORE, MARYLAND	DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND 8-7-73 DATE W. O. Fellert CHIEF BUREAU OF ENGINEERING	CONTRACT NO. 531-S	PLAN HAMMOND BRANCH SEWERS	ELECTRIC DISTRIBUTION NO. 6 HAMMOND VILLAGE	DRAWING NO. 2 OF 17	SCALE 1" = 50' DESIGNED: RDB DRAFTED: RDB CHECKED: JAF PLS. SHEETS:
					JUNE 12, 1975 W.O. 3315, F.B. No. 700-15, 16.	

"AS BUILT" 9-30-76



BENCH MARKS

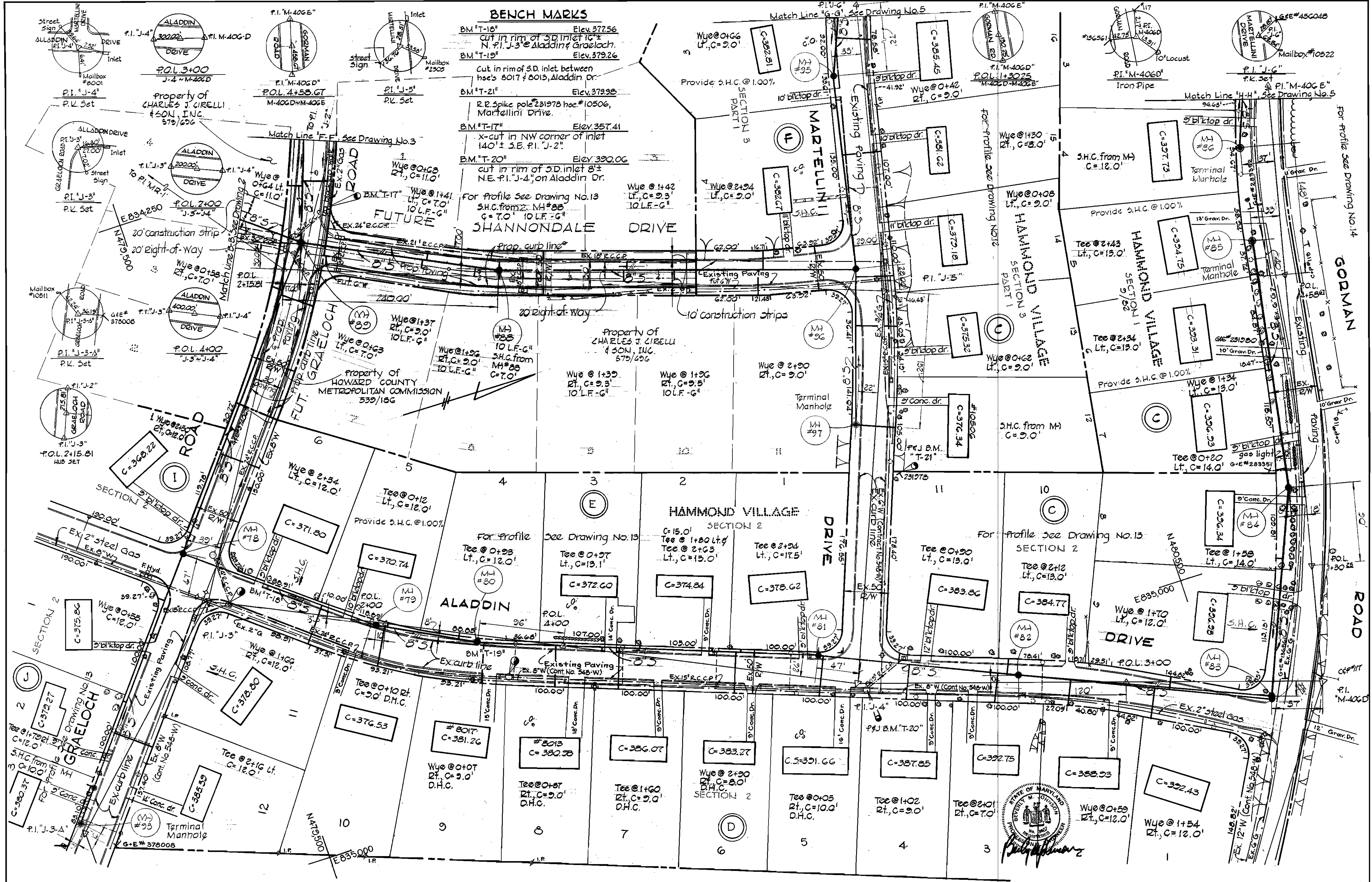
BM "T-1"	Elev. 344.25
2 Nails in G&E #340575, 35' S of RC-4 on Graeloch Road, near Anfred Dr.	
BM "T-2"	Elev. 373.54
PK top end E curb, 120' N of RC-6 on Anfred Drive.	
BM "T-10"	Elev. 372.67
R.R. spike in G&E #462114 Graeloch Road.	
BM "T-3"	Elev. 381.71
N.E. cor. top inlet W side of rd @ house #7930, on Anfred Dr.	



WS 531-S/3

PURDUM & JESCHKE ENGINEERS 1023 N. CALVERT ST. BALTIMORE, MARYLAND	DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND 8-7-73 DATE	CONTRACT NO. 531-S	PLAN HAMMOND BRANCH SEWERS	ELECTION DISTRICT NO. 6 HAMMOND VILLAGE	DRAWING NO. 3 OF 17	SCALE 1" = 50'	DESIGNER: J.A.F. DRAFTED: T.A.J. CHECKED: T.A.F. PLS. SHEETS: 88, 89, 91
					W.O. 3315, F.B. # 700-476		

"AS BUILT" 2-30-76



BENCH MARKS

- BM "T-18" Elev. 377.56
cut in rim of S.D. inlet 16'±
N. P.I. J-3 @ Aladdin & Grae Loch.
- BM "T-19" Elev. 379.26
cut in rim of S.D. inlet between
hse's 8017 & 8013, Aladdin Dr.
- BM "T-21" Elev. 379.98
R.E. Spike pole 231978 hse. #10506,
Martellini Drive.
- BM "T-17" Elev. 357.41
x-cut in NW corner of inlet
140'± S.E. P.I. "J-2".
- BM "T-20" Elev. 390.06
cut in rim of S.D. inlet 8'±
N.E. P.I. "J-4" on Aladdin Dr.

For Profile See Drawing No. 13
S.H.C. from 2" M.H. #88
G = 7.0' 10 L.F. - G"

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

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND
DATE: 8-7-73
W.D. Lambert
CHIEF - BUREAU OF ENGINEERING

CONTRACT NO. 531-S

PLAN
HAMMOND BRANCH SEWERS

ELECTION DISTRICT NO. 6
HAMMOND VILLAGE

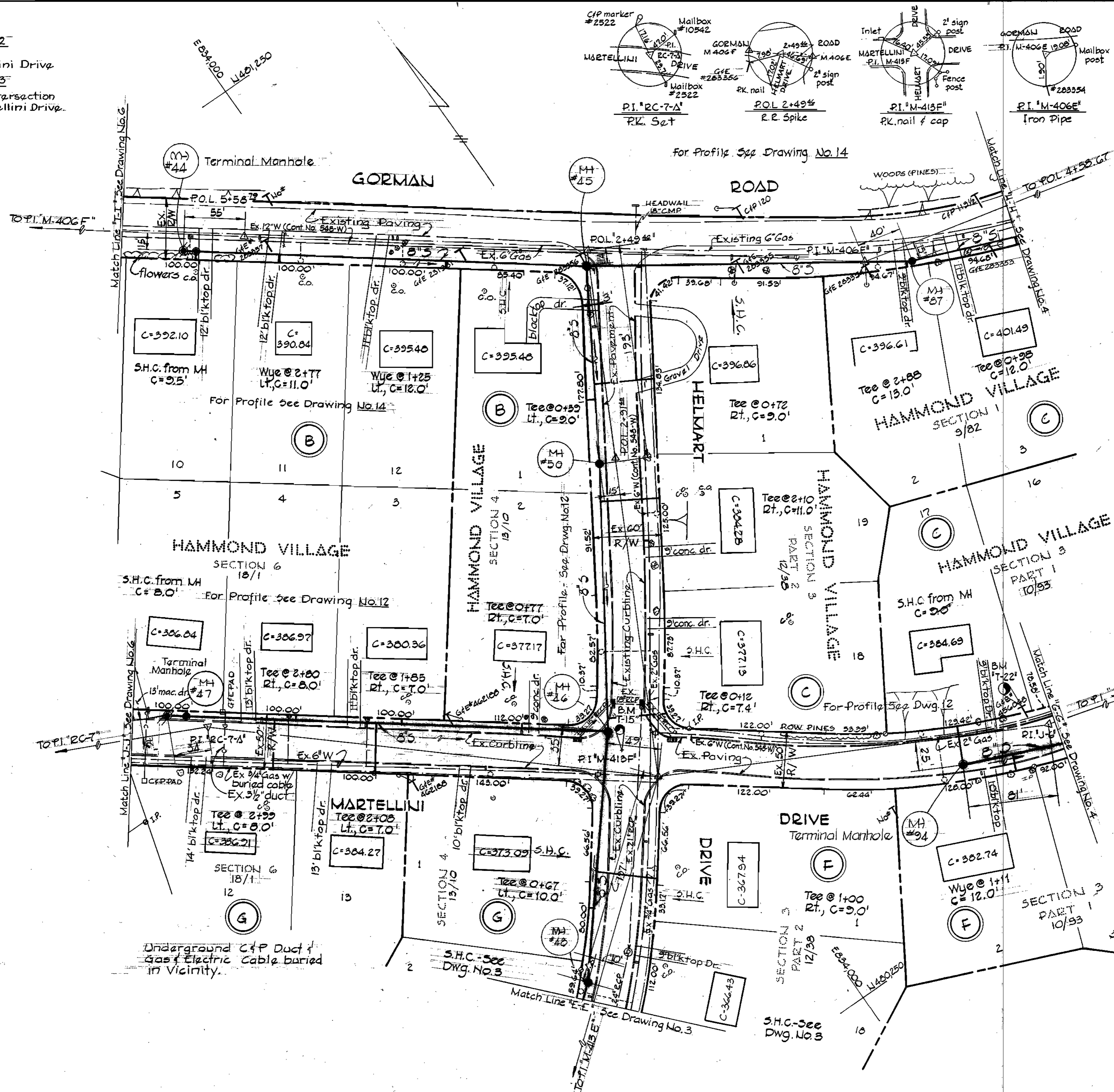
DRAWING NO. 4 OF 17
SCALE 1" = 50'
DESIGNED: T.A.F.
DRAFTED: B.H.
CHECKED: T.A.F.
REV. SHEETS: #9, 10, 14, 15

WS 531-S/4

"AS BUILT" 5-30-76

BENCH MARKS

BM "T-22" Elev. 362.92
 R.R. Spike pole 456040 between house #10522 & #10526 Martellini Drive
 B.M. "T-15" Elev. 373.63
 P.K. Nail & Cap in centerline intersection of Helmart Drive and Martellini Drive 33.72' ± NW of M-413F.



HOWARD SOIL CONSERVATION DISTRICT
 This development has been approved for soil erosion and sediment control by the HOWARD SOIL CONSERVATION DISTRICT.
 APPROVED: *Robert W. Zehm* 3-1-74
 Howard Soil Conservation District Date

Reviewed for Howard Soil Conservation District and meets Technical Requirements
James M. Nelson 3-1-74
 U.S. Soil Conservation Service Date

OWNER
 I certify that all development and/or construction will be done according to the plan of development and the plan of soil erosion and sediment control.
W.O. Palbut 8-7-13
 Signature Date

PROFESSIONAL ENGINEER
 "I certify that this plan for Erosion and Sediment Control represents a practical and workable plan based upon my personal knowledge of the site condition with the requirements of the Howard Soil Conservation District."

 W.O. Palbut
 Reg. No. 3407

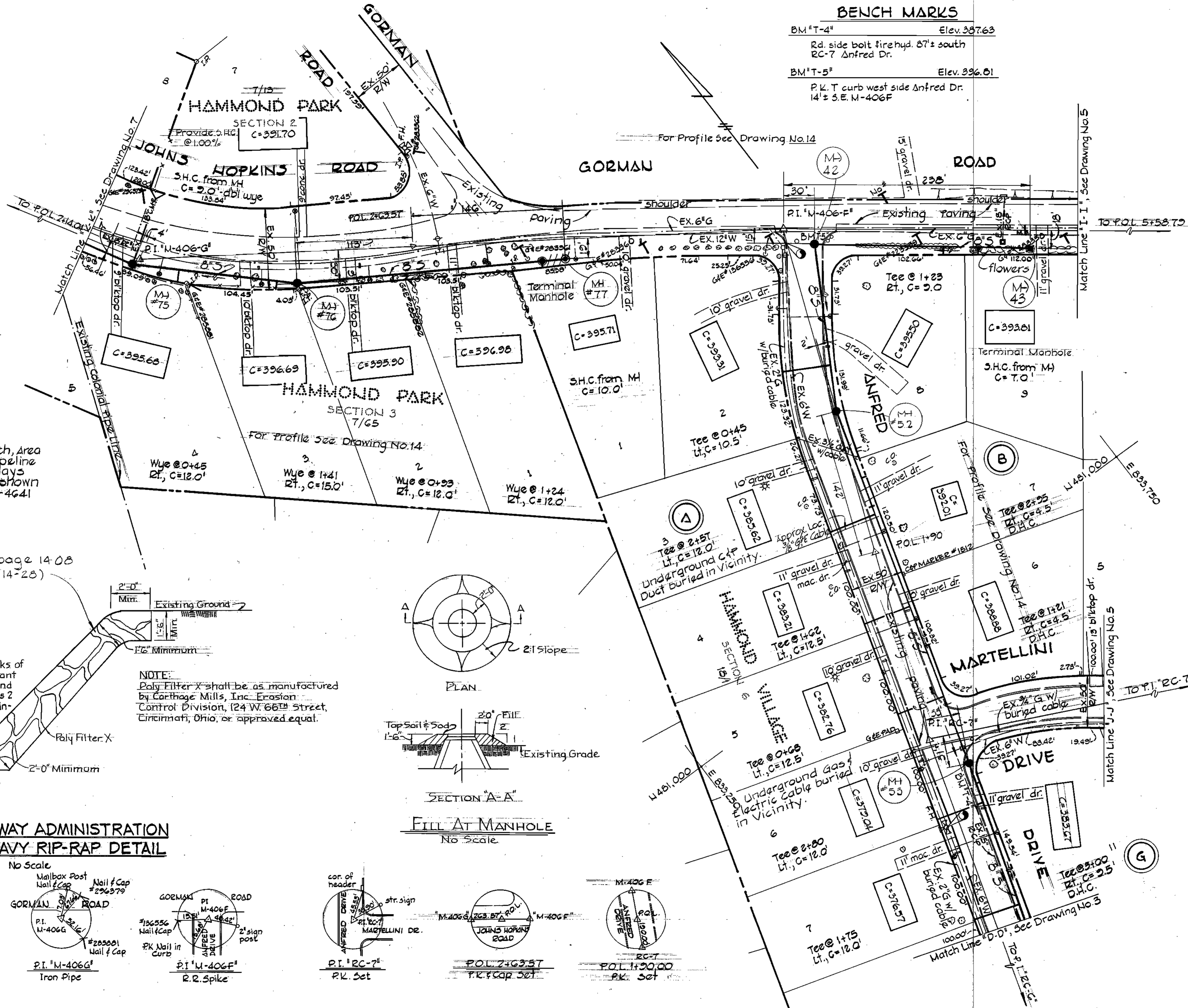
PURDUM & JESCHKE ENGINEERS 1023 N. CALVERT ST. BALTIMORE, MARYLAND	DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND DATE: 8-7-73 <i>W.O. Palbut</i> CHIEF - BUREAU OF ENGINEERING	CONTRACT NO. 531-S	PLAN HAMMOND BRANCH SEWERS	ELECTION DISTRICT NO. 6 HAMMOND VILLAGE	DRAWING NO. 5 OF 17 SCALE 1" = 50' DESIGNED: J.F.L. DRAFTED: T.A.W. CHECKED: T.A.F. PLOT SHEET: #5, 9, 10
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WS 531-S/5

"AS BUILT" 5-30-76

BENCH MARKS

BM "T-4" Elev. 387.63
Rd. side bolt fire hyd. 87'± south
RC-7 Antred Dr.
BM "T-5" Elev. 396.01
P.K. T curb west side Antred Dr.
14'± S.E. M-406F



NOTE:
Notify Mr. S.H. Crumlich, Area
Manager, Colonial Pipeline
Co. at least five (5) days
before starting work shown
on these plans @ T&I-4641

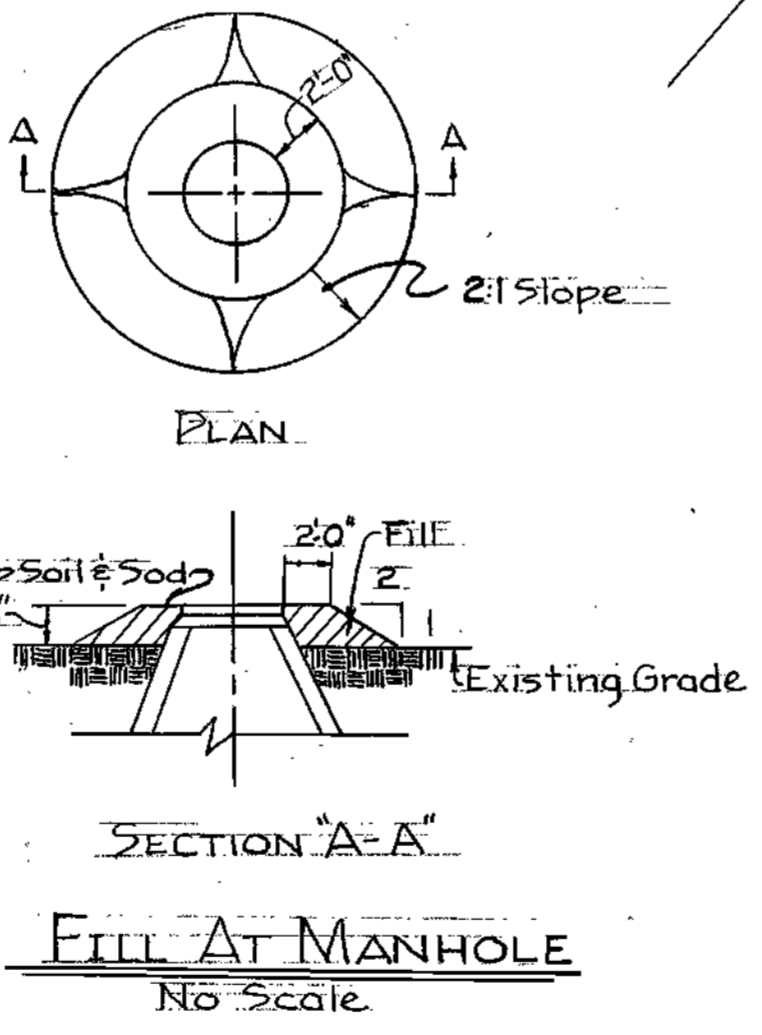
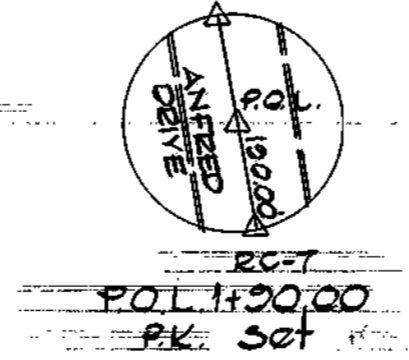
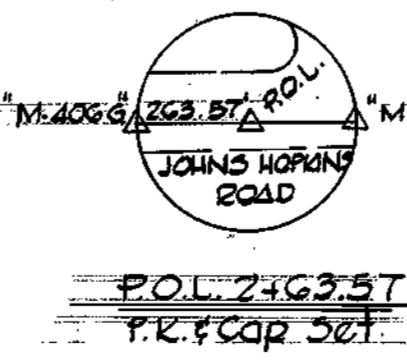
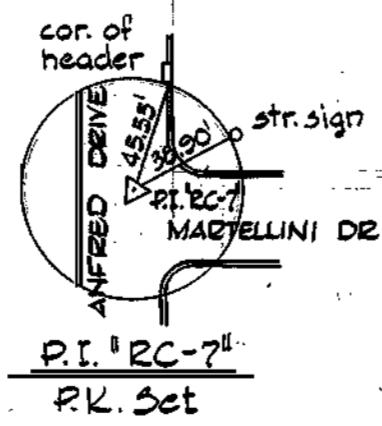
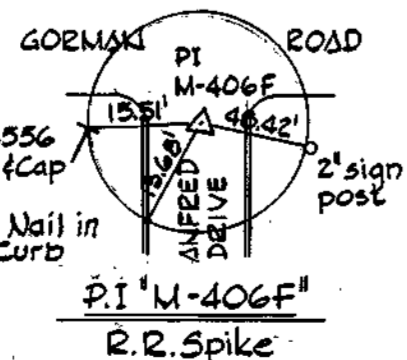
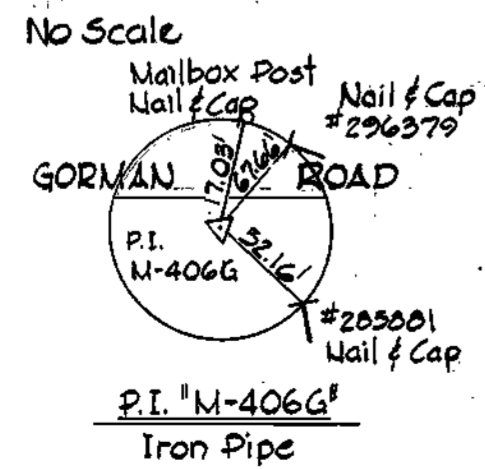
NOTE: Grouting
See specification (page 14.08
sub-paragraph 14-28)

Rip-Rap to consist of dense rocks of
random shapes and sizes, resistant
to the action of air and water, and
shall conform to Section 20.03-6 Class 2
of the Maryland State Highway Admin-
istration Specification.

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

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

STATE HIGHWAY ADMINISTRATION
CLASS 2 HEAVY RIP-RAP DETAIL



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

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND
DATE 8-7-73
W.O. Talbot
CHIEF - BUREAU OF ENGINEERING

CONTRACT NO. 531-S

PLAN
HAMMOND BRANCH SEWERS

ELECTION DISTRICT NO. 6
HAMMOND PARK AND HAMMOND VILLAGE

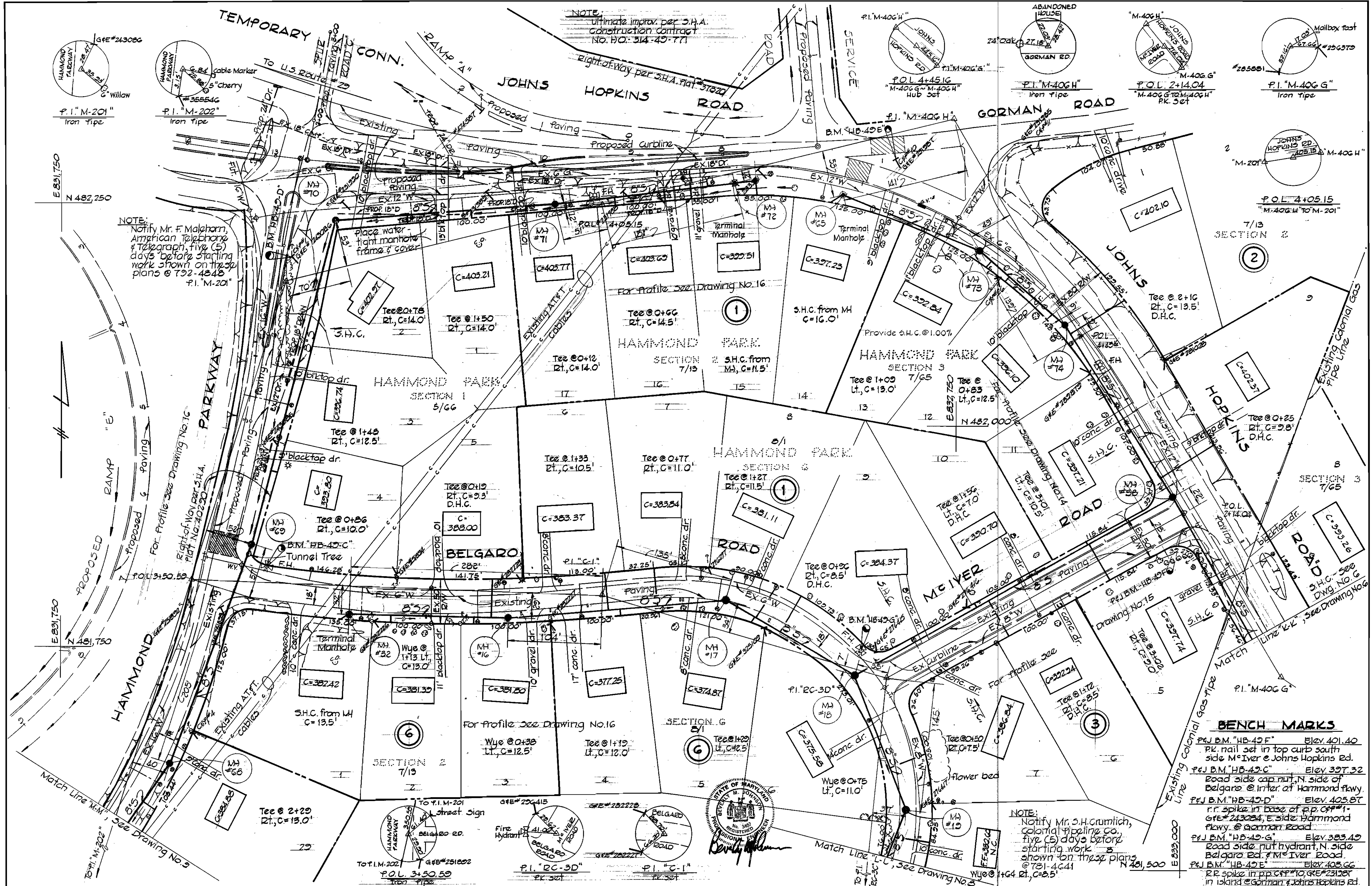
DRAWING NO. 6 OF 17
SCALE 1" = 50'

DESIGNED: T.A.J.
DRAFTED: T.A.J.
CHECKED: T.A.F.
POS. SHEETS: 5 & 9

JUNE 12, 1975

WS 531-S/6

"AS BUILT"
9-30-76



NOTE:
Notify Mr. F. Malhorn,
American Telephone
& Telegraph, five (5)
days before starting
work shown on these
plans @ 792-4848
P.I. "M-201"

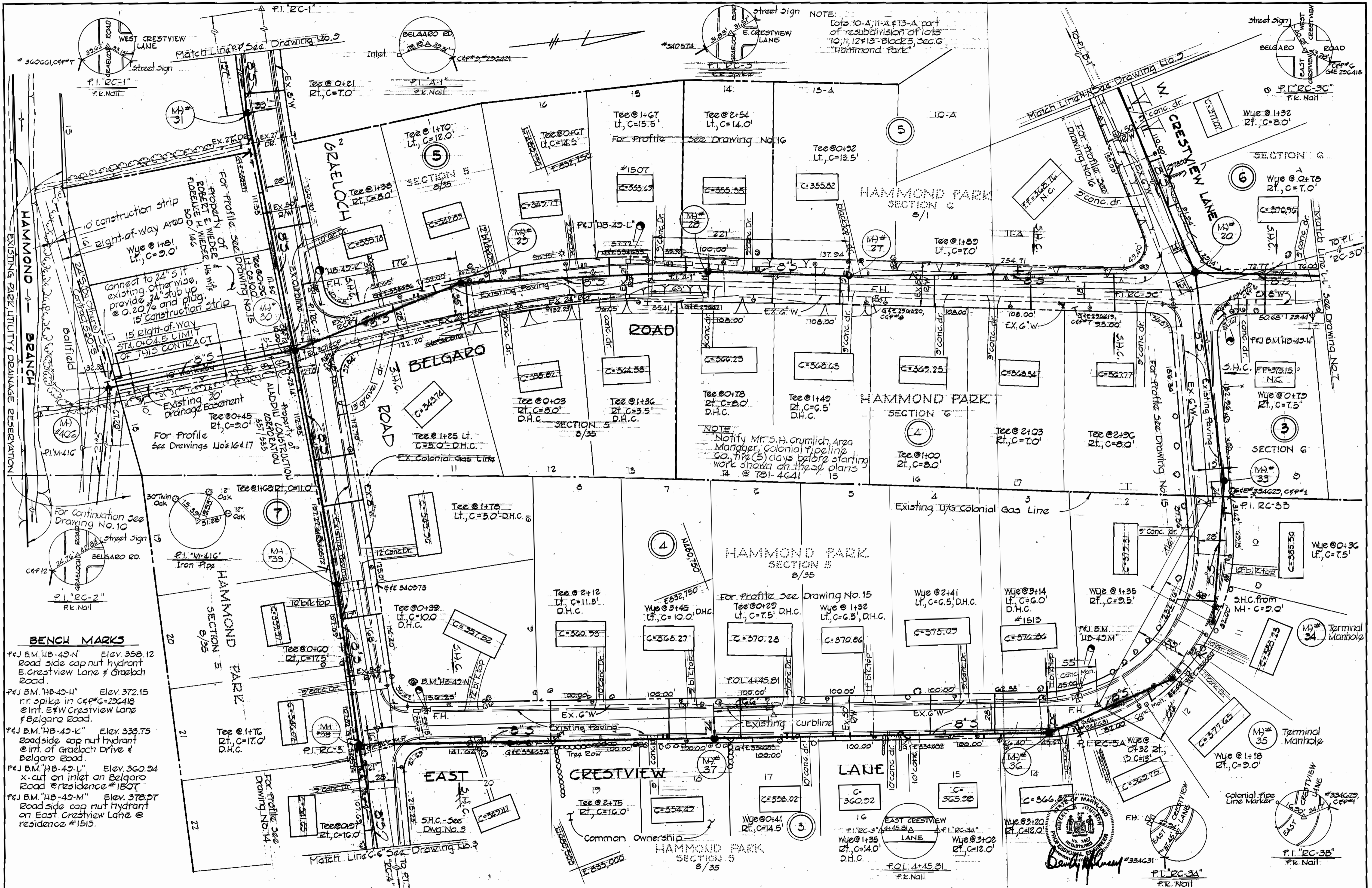
NOTE:
Notify Mr. S.H. Crumlich,
Colonial Pipeline Co.,
five (5) days before
starting work
shown on these plans
@ 781-4241

- BENCH MARKS**
- P&J B.M. "HB-49 F" Elev. 401.40
P.R. nail set in top curb south
side McIver & Johns Hopkins Rd.
 - P&J B.M. "HB-49 C" Elev. 397.32
Road side cap nut, N. side of
Belgare @ Inter. of Hammond Pkwy.
 - P&J B.M. "HB-49 D" Elev. 405.87
r.r. spike in base of pp. G#1-
G#E#243024, E. side Hammond
Pkwy. @ Gorman Road
 - P&J B.M. "HB-49 G" Elev. 383.49
Road side nut hydrant, N. side
Belgare Rd. @ McIver Road.
 - P&J B.M. "HB-49 E" Elev. 405.66
R.R. spike in pp. G#1-10, G#E#231287
in island @ Gorman & Johns Hopkins Rd.

<p>PURDUM & JESCHKE ENGINEERS 1023 N. CALVERT ST. BALTIMORE, MARYLAND</p>	<p>DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND 8-7-73 DATE</p>	<p>CONTRACT NO. 531-S</p>	<p>PLAN HAMMOND BRANCH SEWERS</p>	<p>ELECTION DISTRICT NO. 6 HAMMOND PARK</p>	<p>DRAWING NO. 7 OF 17 SCALE 1" = 50'</p>
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WS 531-S/7

"AS BUILT" 9-30-76



BENCH MARKS

PEJ B.M. "4B-49-N" Elev. 358.12
Road side cap nut hydrant
E. Crestview Lane & Graebloch
Road.

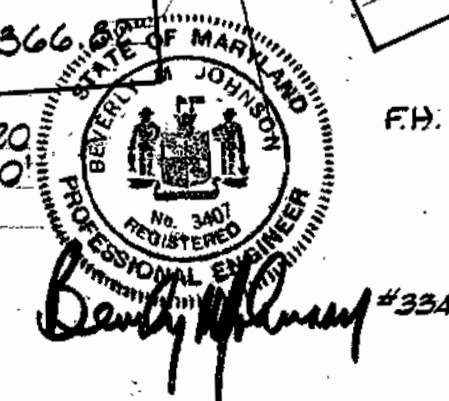
PEJ B.M. "4B-49-H" Elev. 372.15
nr. spike in C&P-G-292418
@ Int. EFW Crestview Lane
& Belgaro Road.

PEJ B.M. "4B-49-K" Elev. 333.75
Roadside cap nut hydrant
@ Int. of Graebloch Drive &
Belgaro Road.

PEJ B.M. "4B-49-L" Elev. 360.94
x-cut on inlet on Belgaro
Road @ residence #1507

PEJ B.M. "4B-49-M" Elev. 378.97
Roadside cap nut hydrant
on East Crestview Lane @
residence #1513.

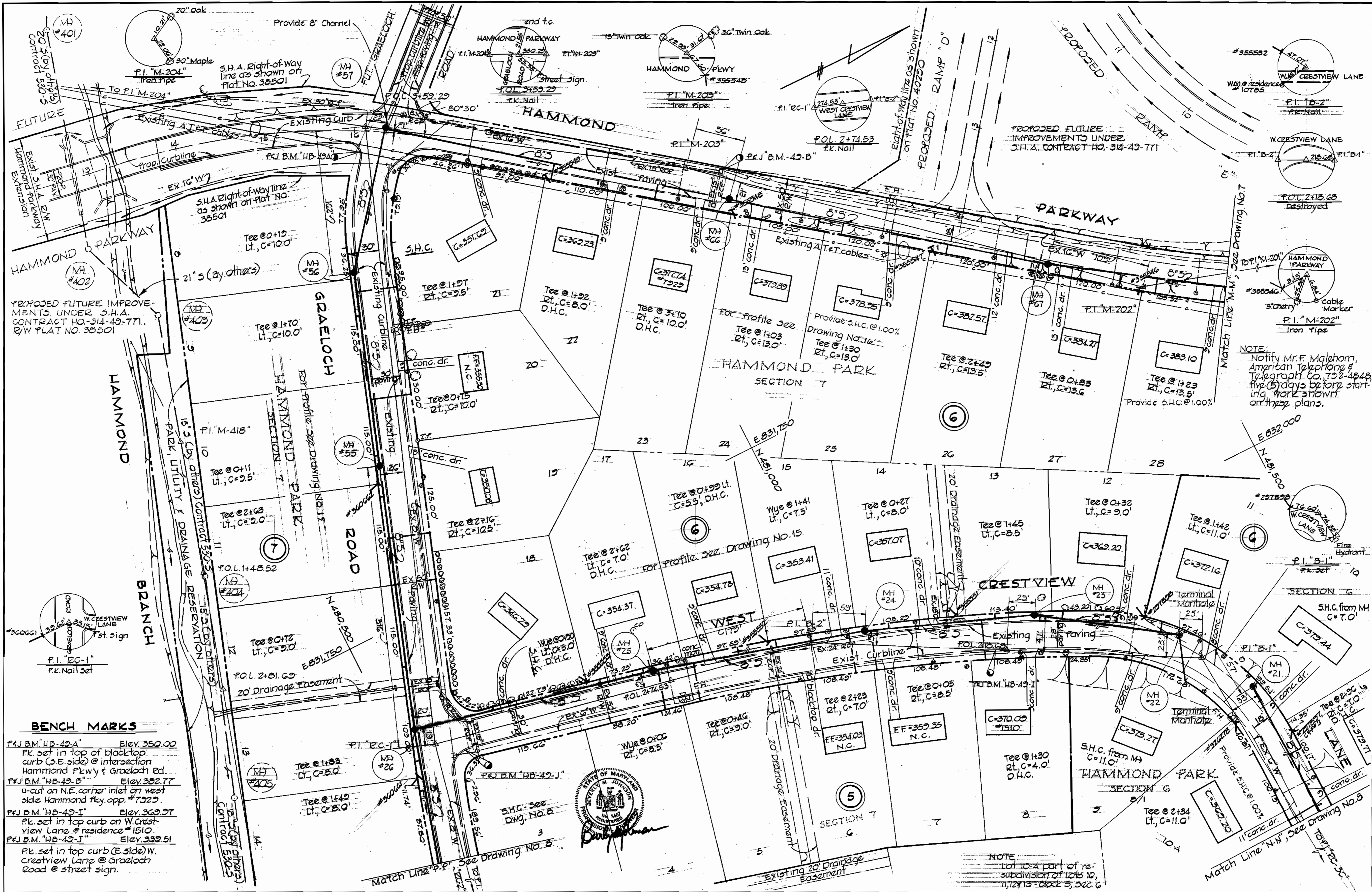
NOTE:
Notify Mr. S.H. Grumlich, Area
Manager, Colonial Piping
Co., five (5) days before starting
work shown on these plans
@ 781-4641



WS 531-135 SW

AS BUILT 5-30-76

<p>PURDUM & JESCHKE ENGINEERS 1023 N. CALVERT ST. BALTIMORE, MARYLAND</p>	<p>DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND 8-7-73 DATE</p>	<p>CONTRACT NO. 531-S</p>	<p>PLAN HAMMOND BRANCH SEWERS</p>	<p>ELECTION DISTRICT NO. 6 HAMMOND VILLAGE</p>	<p>DRAWING NO. 8 OF 17</p>	<p>SCALE 1" = 75'</p> <p>DESIGNED: T.A.F. DRAFTED: J.F.L. CHECKED: T.A.F.</p>
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NOTE:
 Notify Mr. F. Malhom,
 American Telephone &
 Telegraph Co., 702-4848
 five (5) days before start-
 ing work shown
 on these plans.

BENCH MARKS

PEJ B.M. "HB-42-A" Elev. 350.00
 Pk. set in top of blacktop
 curb (S.E. side) @ intersection
 Hammond Pkwy & Graeloch Rd.

PEJ B.M. "HB-42-B" Elev. 322.77
 a-cut on N.E. corner inlet on west
 side Hammond Pkwy, opp. #7225

PEJ B.M. "HB-42-I" Elev. 369.97
 Pk. set in top curb on W. Crest-
 view Lane @ residence #1510

PEJ B.M. "HB-42-J" Elev. 339.51
 Pk. set in top curb (E. side) W.
 Crestview Lane @ Graeloch
 Road @ street sign.

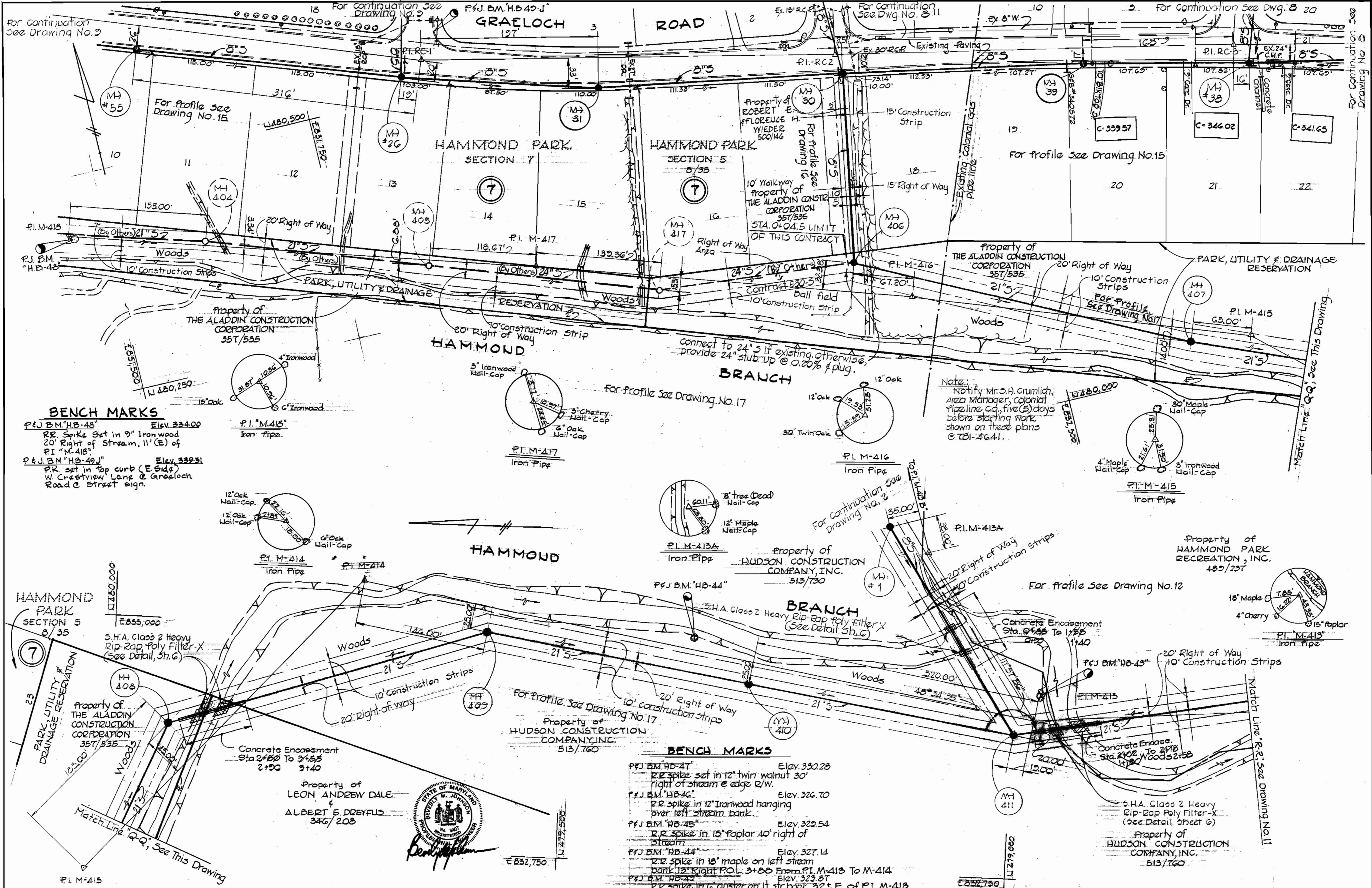


NOTE:
 Lot 10-A part of re-
 subdivision of lots 10,
 11, 12, 13 - Block 5, Sec. 6

"AS BUILT"
 9-30-76

PURDUM & JESCHKE ENGINEERS 1023 N. CALVERT ST. BALTIMORE, MARYLAND	DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND 8-7-73 DATE	CONTRACT NO. 531-S	PLAN HAMMOND BRANCH SEWERS	ELECTION DISTRICT NO. 6 HAMMOND PARK	DRAWING NO. 9 OF 17 SCALE 1" = 50' DESIGNED: T.A.F. DRAFTED: R.D.B. CHECKED: T.A.F. PLS. SHEETS: 3, 4, 7, 8
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WS 531-5/9



BENCH MARKS

P&J B.M. 'HB-48' Elev. 324.00
 R.R. Spike Set in 9" Ironwood
 20' Right of Stream, 11' (E) of
 P.I. M-418

P&J B.M. 'HB-49J' Elev. 322.51
 P.K. set in top curb (E Side)
 W. Crestview Lane @ Grae Loch
 Road @ Street sign.

For Profile See Drawing No. 17

Note:
 Notify Mr. S.H. Crumlich,
 Area Manager, Colonial
 Pipeline Co., five (5) days
 before starting work
 shown on these plans
 @ TBI-4641.

HAMMOND PARK SECTION 5
 8/35

Property of
 THE ALADDIN CONSTRUCTION
 CORPORATION
 357/535

Concrete Encasement
 Sta. 2+80 To 3+55
 2+90 3+40

Property of
 LEON ANDREW DALE
 ALBERT S. DREYFUS
 346/208

BENCH MARKS

P&J B.M. 'HB-47' Elev. 320.28
 R.R. spike set in 12" twin walnut 30'
 right of stream @ edge R/W.

P&J B.M. 'HB-46' Elev. 326.70
 R.R. spike in 12" Ironwood hanging
 over left stream bank.

P&J B.M. 'HB-45' Elev. 322.54
 R.R. spike in 15" poplar 40' right of
 stream

P&J B.M. 'HB-44' Elev. 327.14
 R.R. spike in 18" maple on left stream
 bank 12' right P.O.L. 3+80 From P.I. M-413 To M-414

P&J B.M. 'HB-43' Elev. 323.87
 R.R. spike in 6" cluster on lt. str bank 32'E. of P.I. M-413

Property of
 HUDSON CONSTRUCTION
 COMPANY, INC.
 513/730

Property of
 HUDSON CONSTRUCTION
 COMPANY, INC.
 513/760

Property of
 HUDSON CONSTRUCTION
 COMPANY, INC.
 513/760

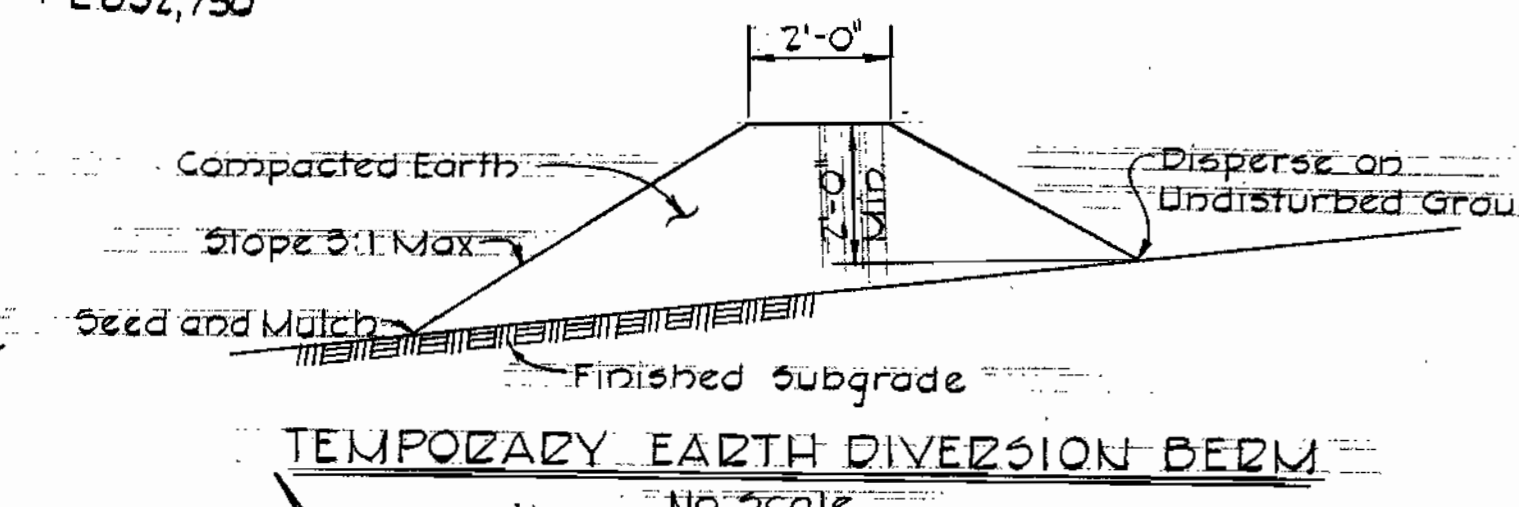
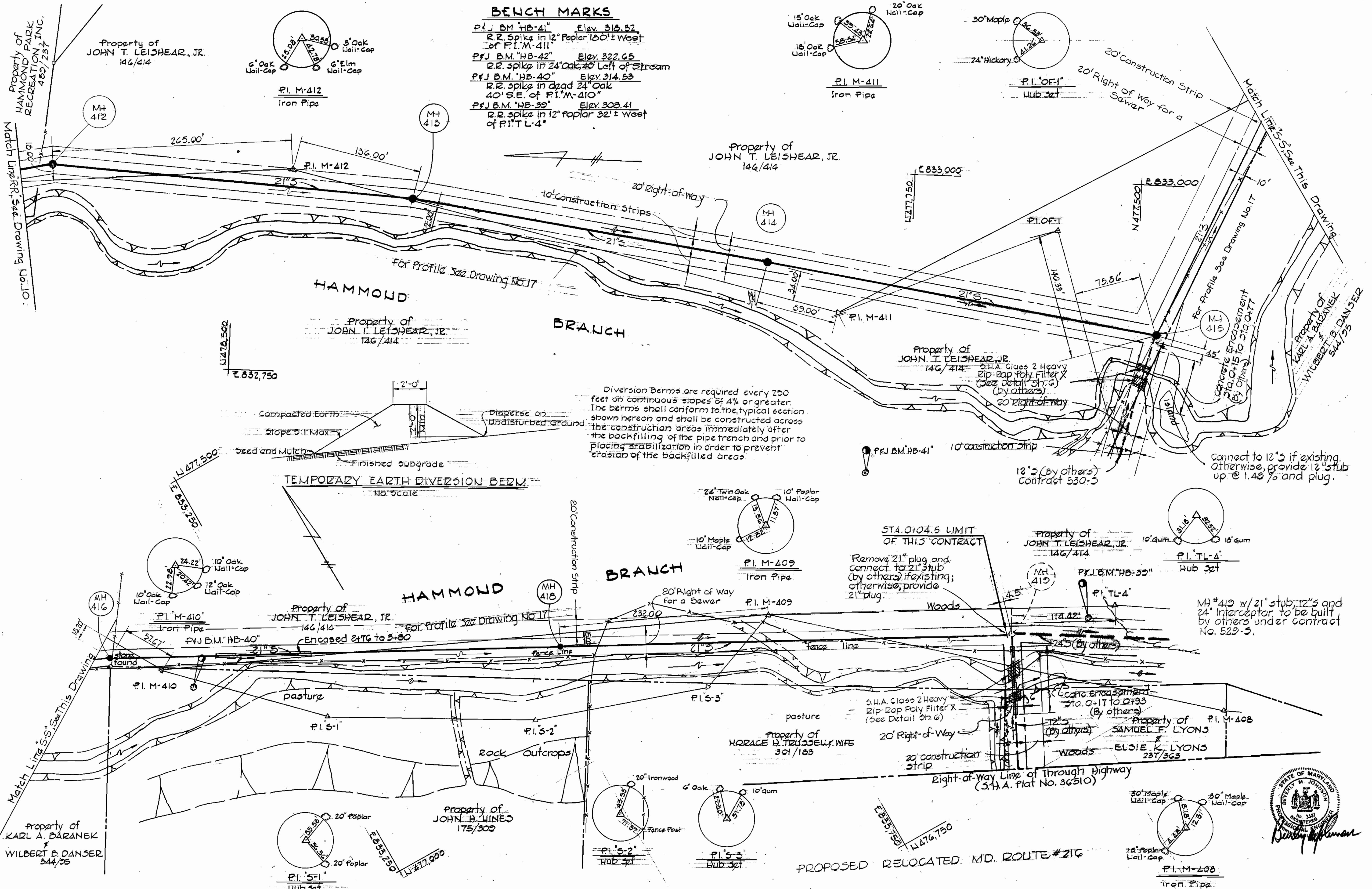
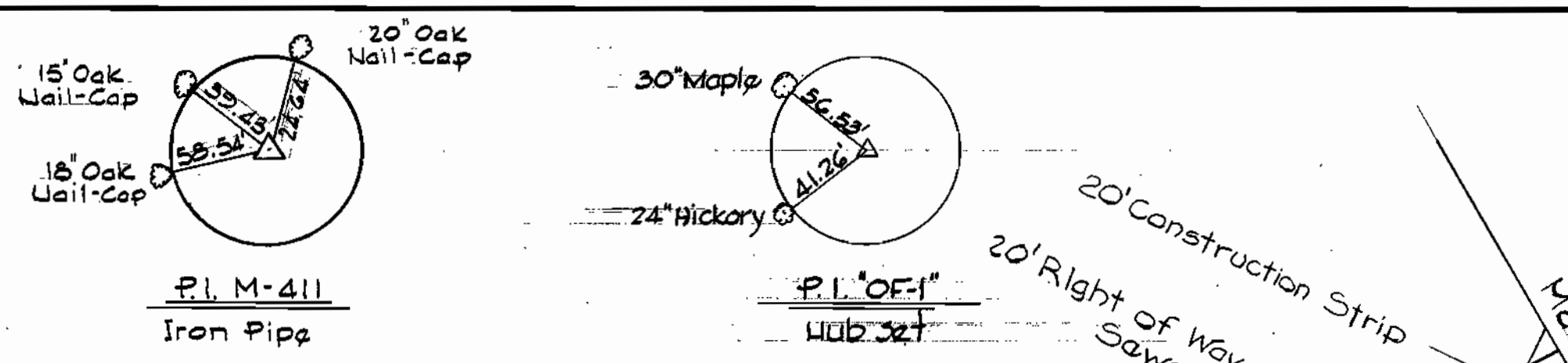
WS 531-5/10

"AS BUILT" 5-20-76

PURDUM & JESCHKE ENGINEERS 1023 N. CALVERT ST. BALTIMORE, MARYLAND	DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND 8-7-73 DATE	CONTRACT NO. 531-5	PLAN HAMMOND BRANCH SEWERS	ELECTION DISTRICT GUILFORD NO. 6	DRAWING NO. 10 OF 17 SCALE 1" = 50' DESIGNED: T.A.F. DRAFTED: R.A.Z. CHECKED: T.A.F. PLOT: SHEETS 26 & 14
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BENCH MARKS

- P.F.J. B.M. "HB-41" Elev. 318.32
R.R. Spike in 12" Poplar 180' West of P.I. M-411
- P.F.J. B.M. "HB-42" Elev. 322.65
R.R. spike in 24" Oak, 40' Left of Stream
- P.F.J. B.M. "HB-40" Elev. 314.53
R.R. spike in dead 24" Oak 40' S.E. of P.I. M-410
- P.F.J. B.M. "HB-39" Elev. 308.41
R.R. spike in 12" Poplar 32' West of P.I. T.L-4



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 areas immediately after the backfilling of the pipe trench and prior to placing stabilization in order to prevent erosion of the backfilled areas.

Remove 21" plug and connect to 21" stub (by others) if existing; otherwise, provide 21" plug.

MH# 419 w/ 21" stub, 12" s and 24" interceptor, to be built by others under contract No. 529-5.



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

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND
8-7-73
DATE

CONTRACT NO. 531-S

PLAN
HAMMOND BRANCH SEWERS

ELECTION DISTRICT
GAILFORD NO. 6

DRAWING NO. 11 OF 17
SCALE 1" = 50'

JUNE 12, 1975

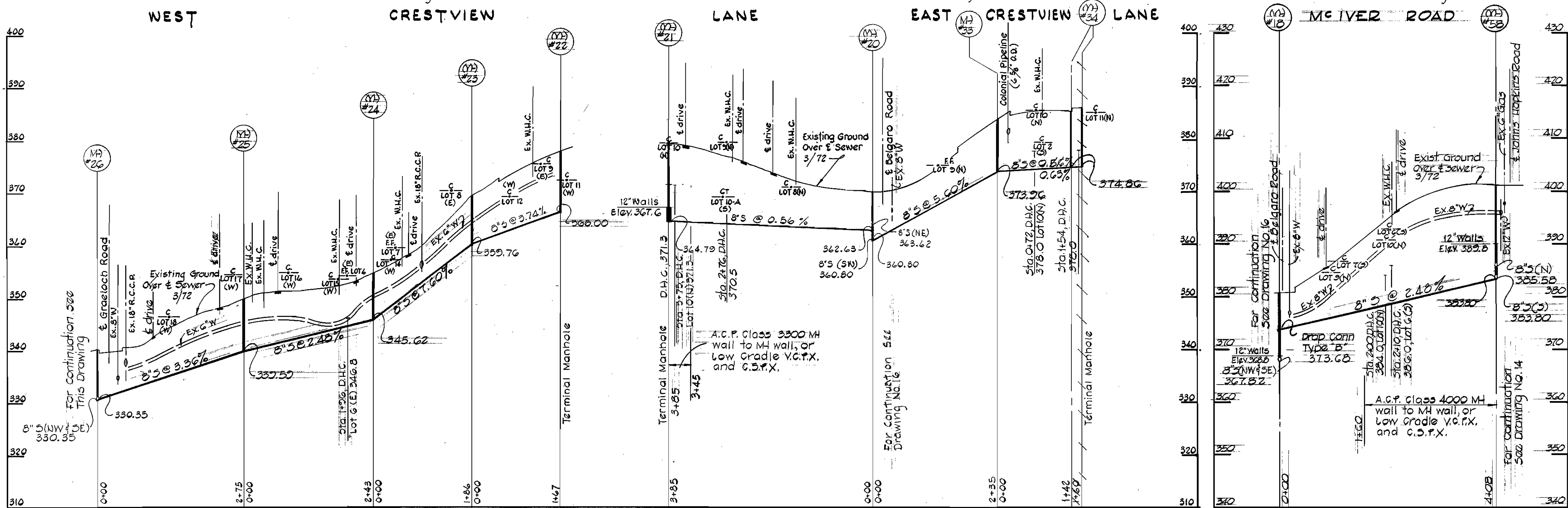
WS 531-S/11

AS BUILT 5-30-76

For Plan See Drawing No. 9

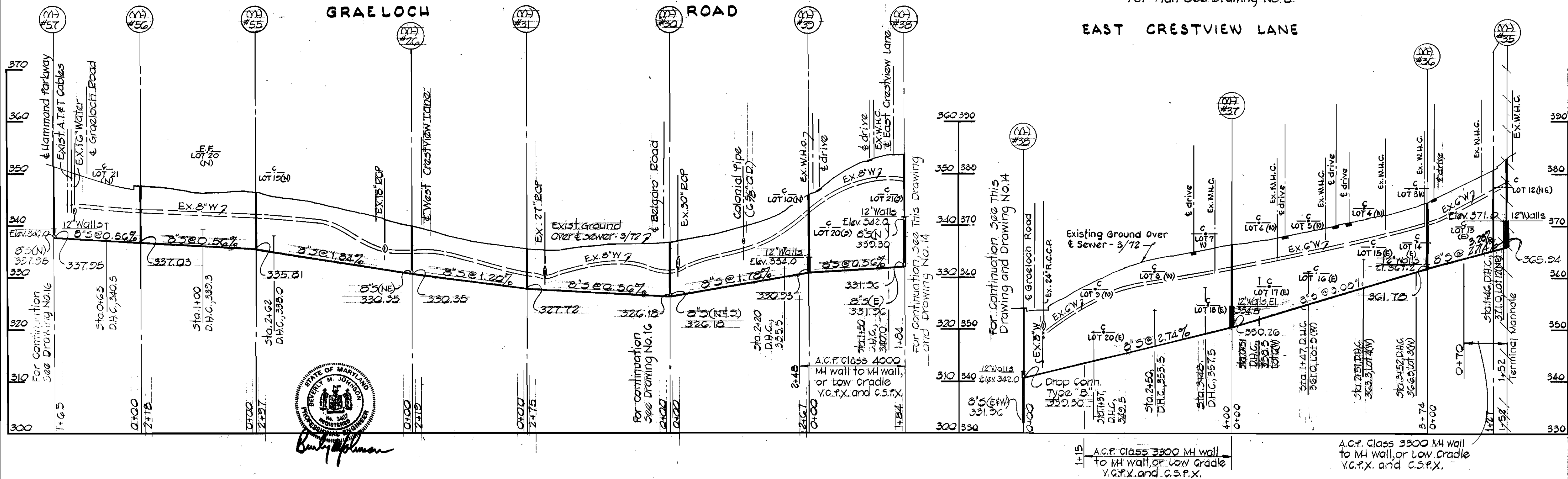
For Plan See Drawing No. 849

For Plan See Drawing No. 7



For Plan See Drawing No. 9 & 10

For Plan See Drawing No. 8



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

DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND
 8-7-73
 DATE

CONTRACT NO. 531-S

PROFILES
 HAMMOND BRANCH SEWERS

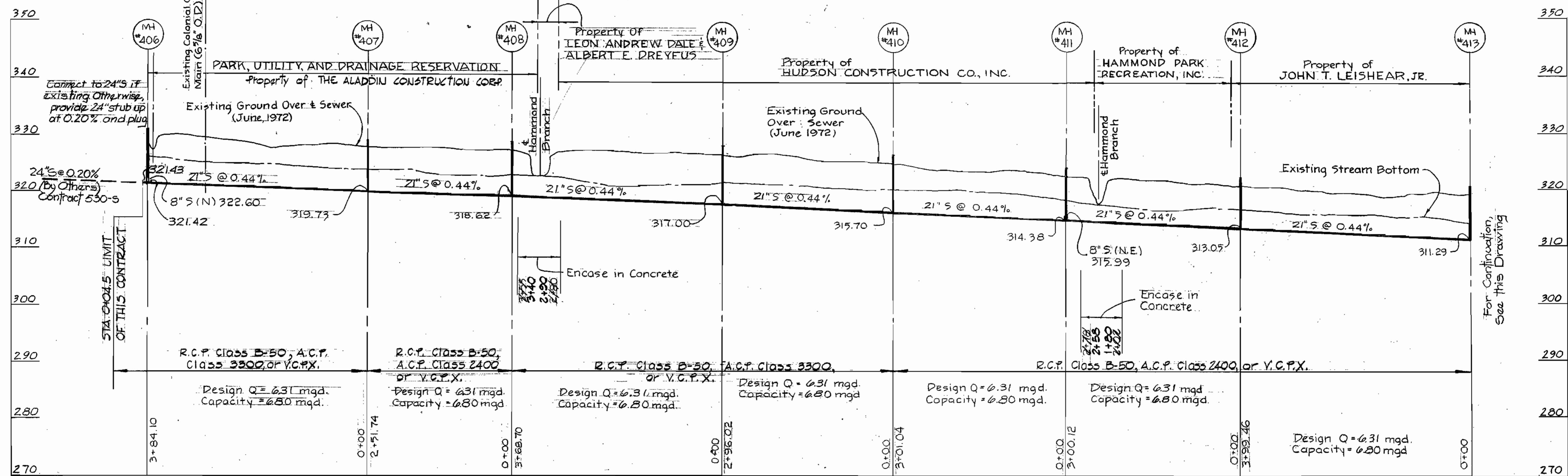
ELECTION, DISTRICT NO. 6
 HAMMOND PARK

DRAWING NO. 15 OF 17
 SCALE: Horiz: 1"=100' Vert: 1"=10'

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

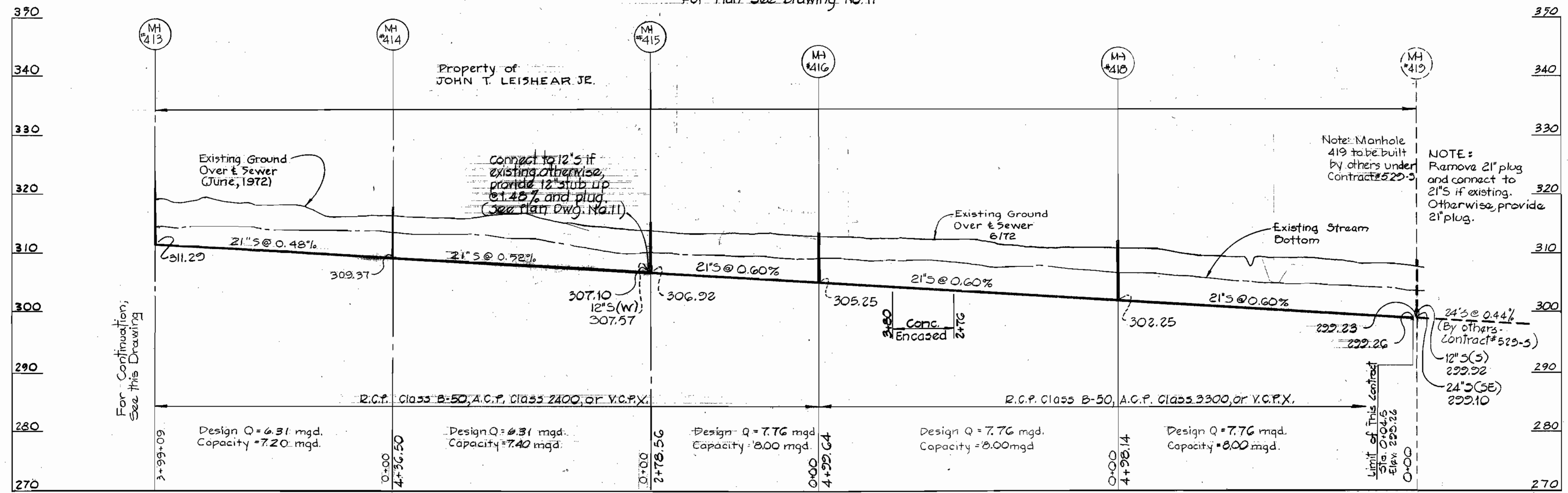
WS 531-S/15

"AS BUILT" 9-30-76



Note: Build Manholes 415 Thru 406
1'6" Above Existing Ground

HAMMOND BRANCH INTERCEPTOR



Note: Manhole 419 to be built by others under Contract # 525-5

NOTE: Remove 21" plug and connect to 21" if existing. Otherwise, provide 21" plug.



PURDUM & JESCHKE
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HOWARD COUNTY, MARYLAND
8-7-73
DATE

CONTRACT NO. 531/S

PROFILE
HAMMOND BRANCH SEWERS

ELECTION DISTRICT
GUELPH RD. 66

DRAWING
NO. 17
OF 17

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

Designed: TAF
Drafted: AZ
Checked: TAF

WS 531-5/17

"AS BUILT"
5-30-76