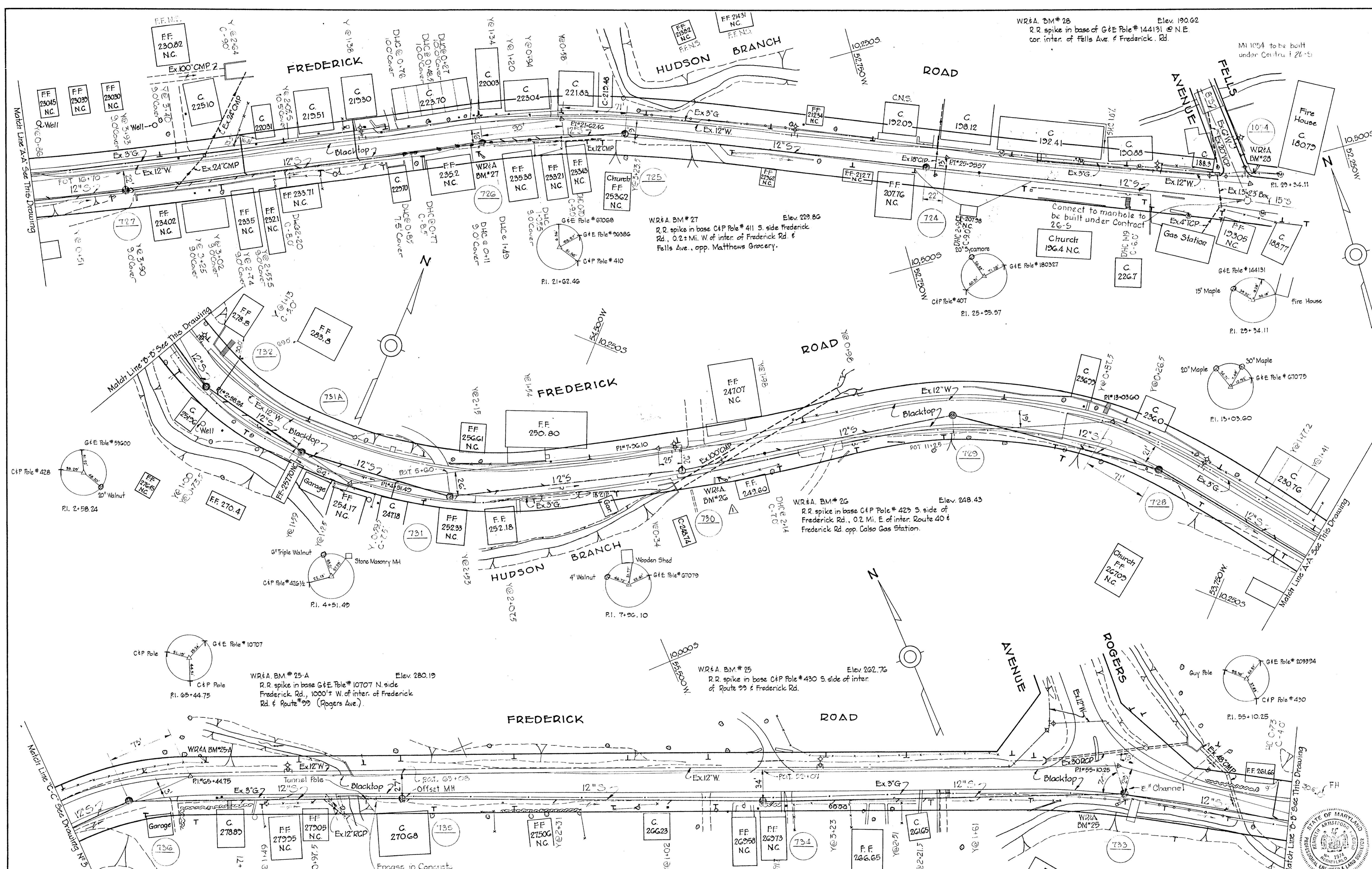




CONTRACT 31 S
SEWER MAIN EXTENSIONS
HOWARD COUNTY METROPOLITAN COMMISSION
ELLICOTT CITY SUB-DISTRICT

Kenneth A. McLeod
 C 291F 241
 REGISTERED PROFESSIONAL ENGINEER & LAND SURVEYOR
 No. 1974
 State of Maryland

WHITMAN, REQUARDT & ASSOCIATES ENGINEERS 1304 ST. PAUL ST. BALTIMORE, MARYLAND	HOWARD COUNTY METROPOLITAN COMMISSION Dec. 16, 1963 <i>Carl W. Meyer</i> CHIEF ENGINEER	CONTRACT NO. 31-S	LOCATION MAP	ELLICOTT CITY SUB-DISTRICT	DRAWING NO. 1 OF 24 SCALE AS SHOWN
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PROFILE SCHEDULE	
Frederick Road	Drawing N ^o 15

No.	Date	Description
1	4-19-65	Manholes No. 729 and 730 relocated.
U ^c		Revision

WHITMAN, REQUARDT & ASSOCIATES
 ENGINEERS
 1304 ST. PAUL ST.
 BALTIMORE, MARYLAND

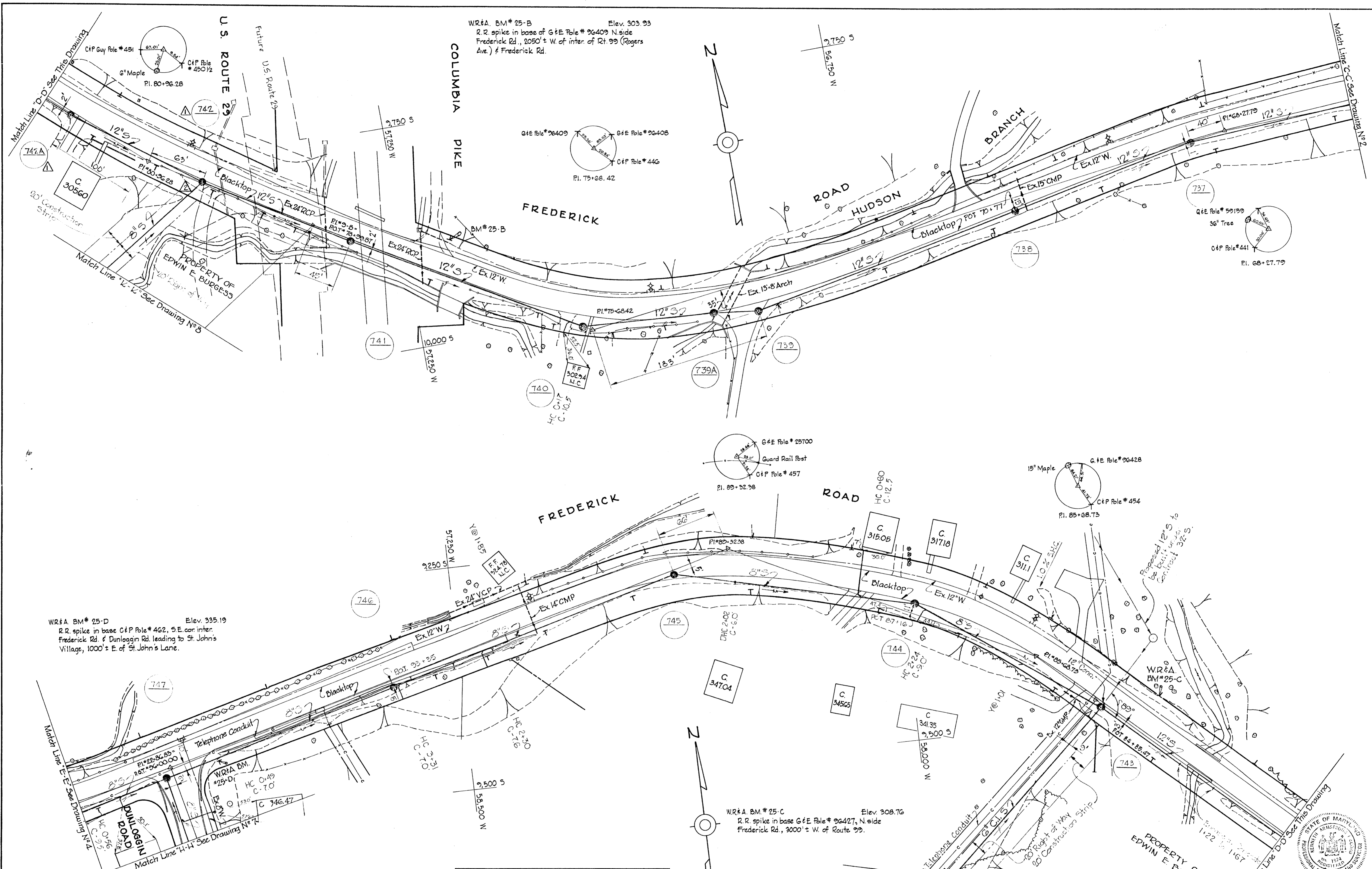
HOWARD COUNTY METROPOLITAN COMMISSION
 Dec. 16, 1963
 DATE
Carl W. Meyer
 CHIEF ENGINEER

CONTRACT NO. 31-S

PLAN OF SEWER MAINS

ELLCOTT CITY SUB-DISTRICT

DRAWING NO. 2 OF 24
SCALE 1"=50'



WR&A BM# 25-B
 Elev. 303.93
 R.R. spike in base of G&E Pole # 96409 N side
 Frederick Rd., 2050' ± W. of inter. of Rt. 99 (Rogers
 Ave.) & Frederick Rd.

WR&A BM# 25-D
 Elev. 335.19
 R.R. spike in base of C&P Pole # 462, S.E. cor. inter.
 Frederick Rd. & Dunlaggin Rd. leading to St. John's
 Village, 1000' ± E. of St. John's Lane.

WR&A BM# 25-C
 Elev. 308.76
 R.R. spike in base of G&E Pole # 96427, N side
 Frederick Rd., 3000' ± W. of Route 99.

2	4-15-65	12" Drop connection removed
1	1-6-65	MH No. 742 relocated, MH No. 742-A added.
U ^o	Date	Revision

PROFILE SCHEDULE	
Frederick Road	Drawing N ^o 15

WHITMAN, REQUARDT & ASSOCIATES
 ENGINEERS
 1304 ST. PAUL ST.
 BALTIMORE, MARYLAND

HOWARD COUNTY METROPOLITAN COMMISSION
 Dec. 16, 1963
 DATE

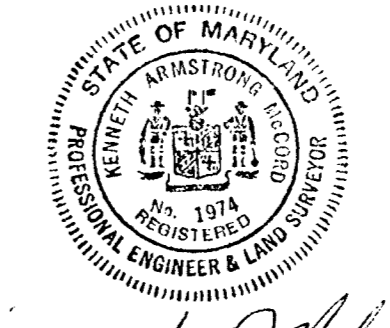
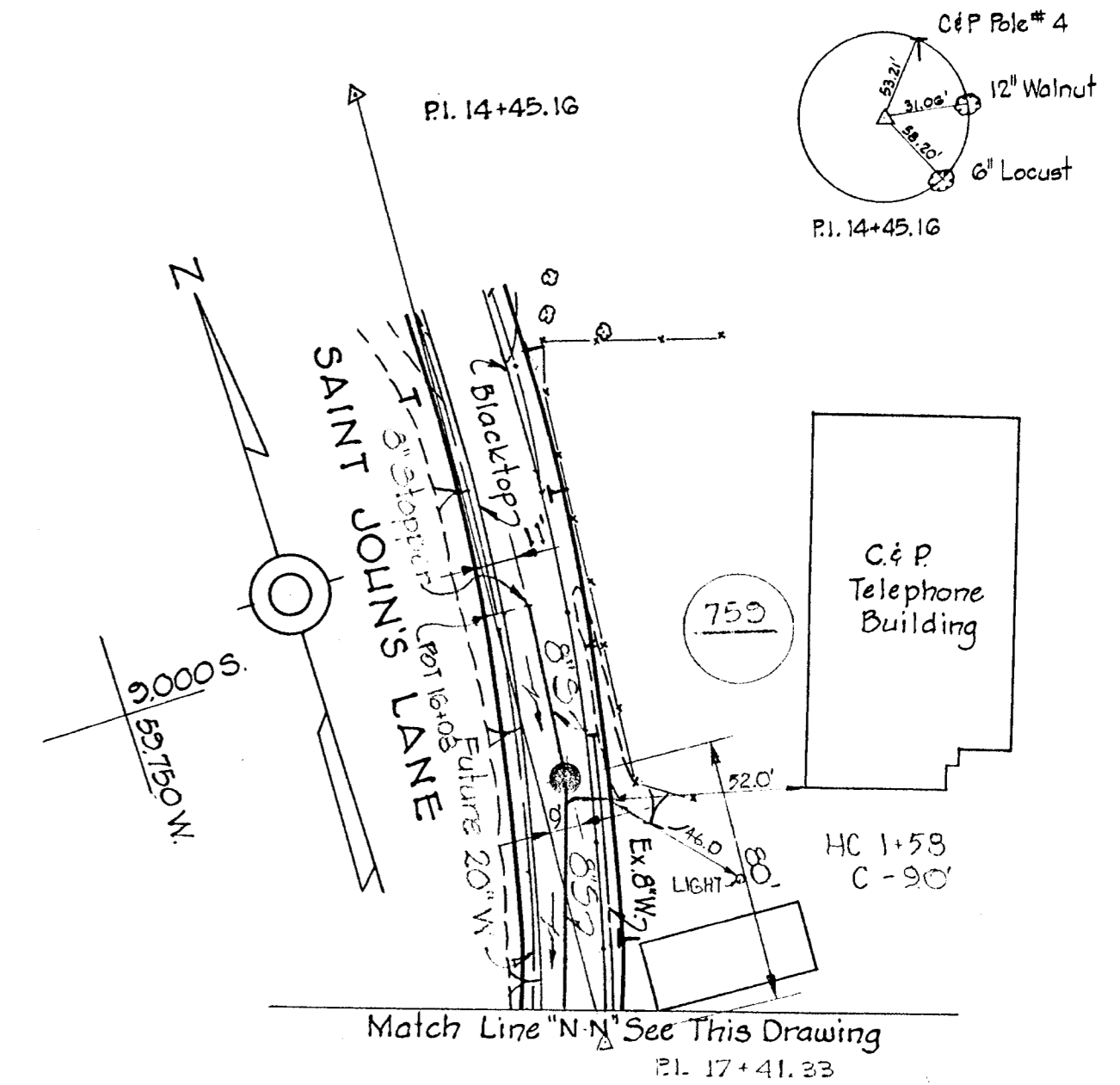
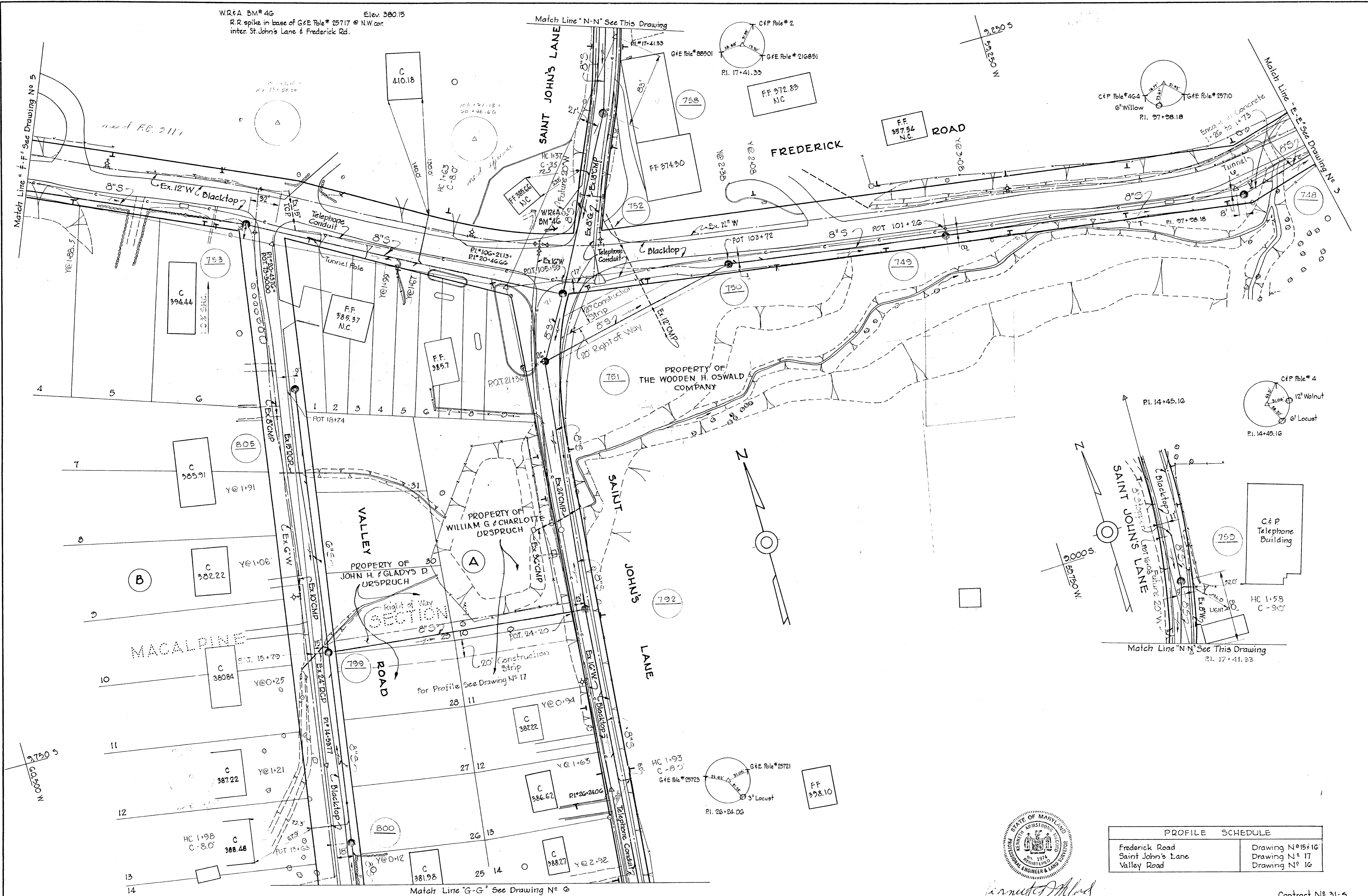
CONTRACT NO. 31-S

PLAN OF
 SEWER MAINS

ELLICOTT CITY SUB-DISTRICT

DRAWING NO. 3 OF 24
 SCALE 1"=50'

W.R. & B.M. # 4G Elev. 380.15
 R.R. spike in base of G&E Pole # 25717 @ N.W. cor.
 inter. St. John's Lane & Frederick Rd.

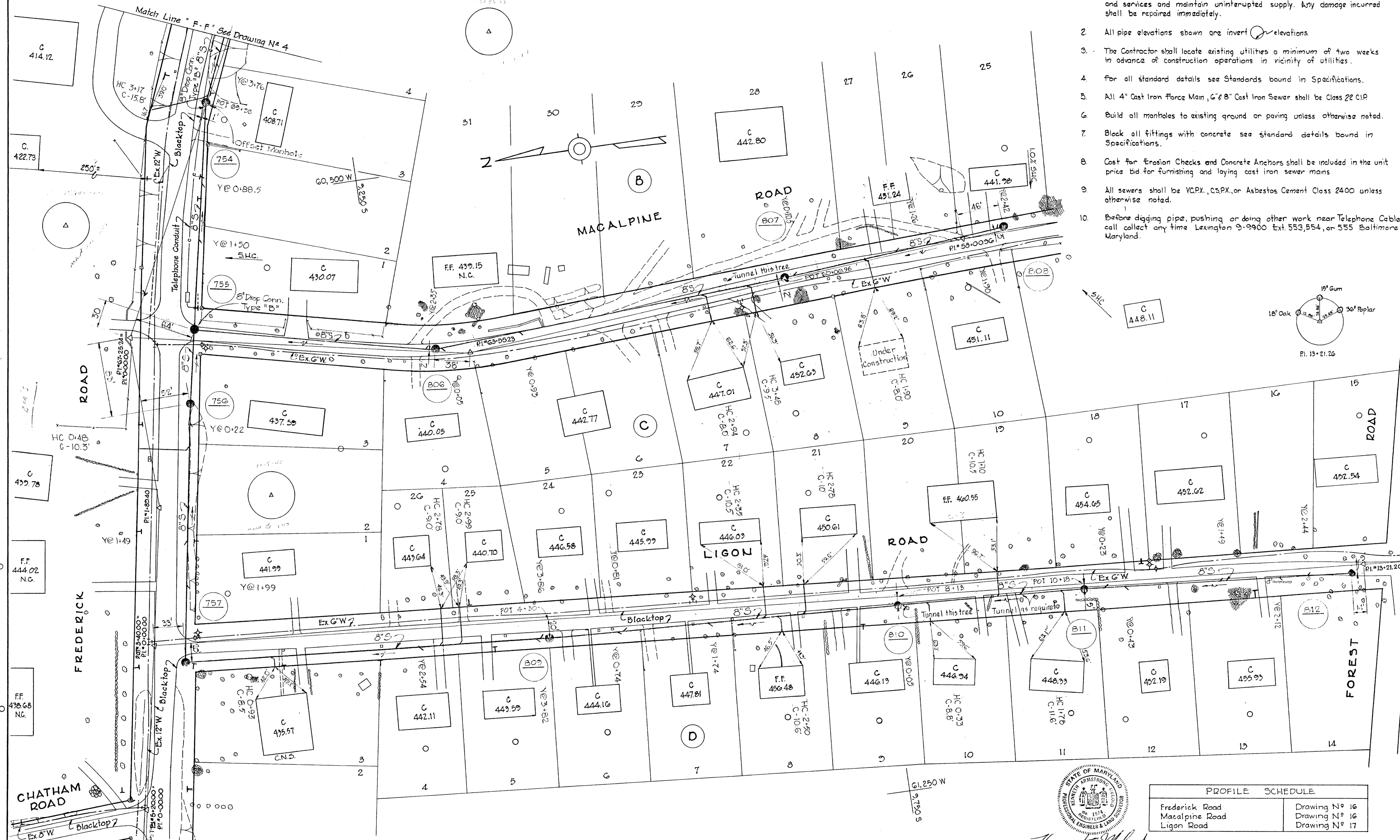


PROFILE SCHEDULE	
Frederick Road	Drawing N ^o 15 & 16
Saint John's Lane	Drawing N ^o 17
Valley Road	Drawing N ^o 16

WHITMAN, REQUARDT & ASSOCIATES ENGINEERS 1304 ST. PAUL ST. BALTIMORE, MARYLAND	HOWARD COUNTY METROPOLITAN COMMISSION Dec. 16, 1963 DATE <i>Carl W. Meyer</i> CHIEF ENGINEER	CONTRACT NO. 31-S	PLAN OF SEWER MAINS	ELLICOTT CITY SUB-DISTRICT	Contract N ^o 31-S
					DRAWING NO. 4 OF 24 SCALE 1" = 50'

GENERAL NOTES

1. Approximate location of existing mains are shown. The Contractor shall take all necessary precautions to protect the existing mains and services and maintain uninterrupted supply. Any damage incurred shall be repaired immediately.
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 vicinity of utilities.
4. For all standard details see Standards bound in Specifications.
5. All 4" Cast Iron Force Main, 6" & 8" Cast Iron Sewer shall be Class 22 CIP.
6. Build all manholes to existing ground or paving unless otherwise noted.
7. Block all fittings with concrete see standard details bound in Specifications.
8. Cost for Erosion Checks and Concrete Anchors shall be included in the unit price bid for furnishing and laying cast iron sewer mains.
9. All sewers shall be VCPX, CSPX, or Asbestos Cement Class 2400 unless otherwise noted.
10. Before digging pipe, pushing or doing other work near Telephone Cables call collect any time Lexington 9-9900 Ext. 553,554, or 555 Baltimore, Maryland.



PROFILE SCHEDULE	
Frederick Road	Drawing N° 16
Macalpine Road	Drawing N° 16
Ligon Road	Drawing N° 17

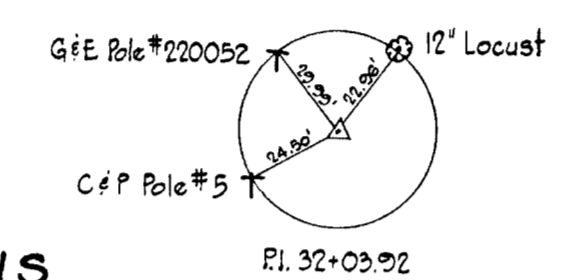
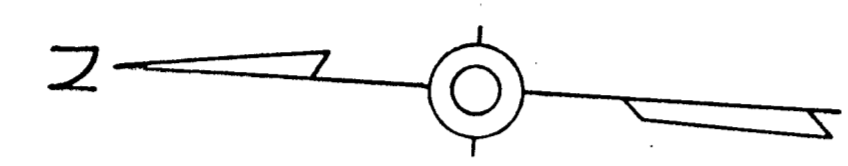
James G. Alford

Contract N° 31-5

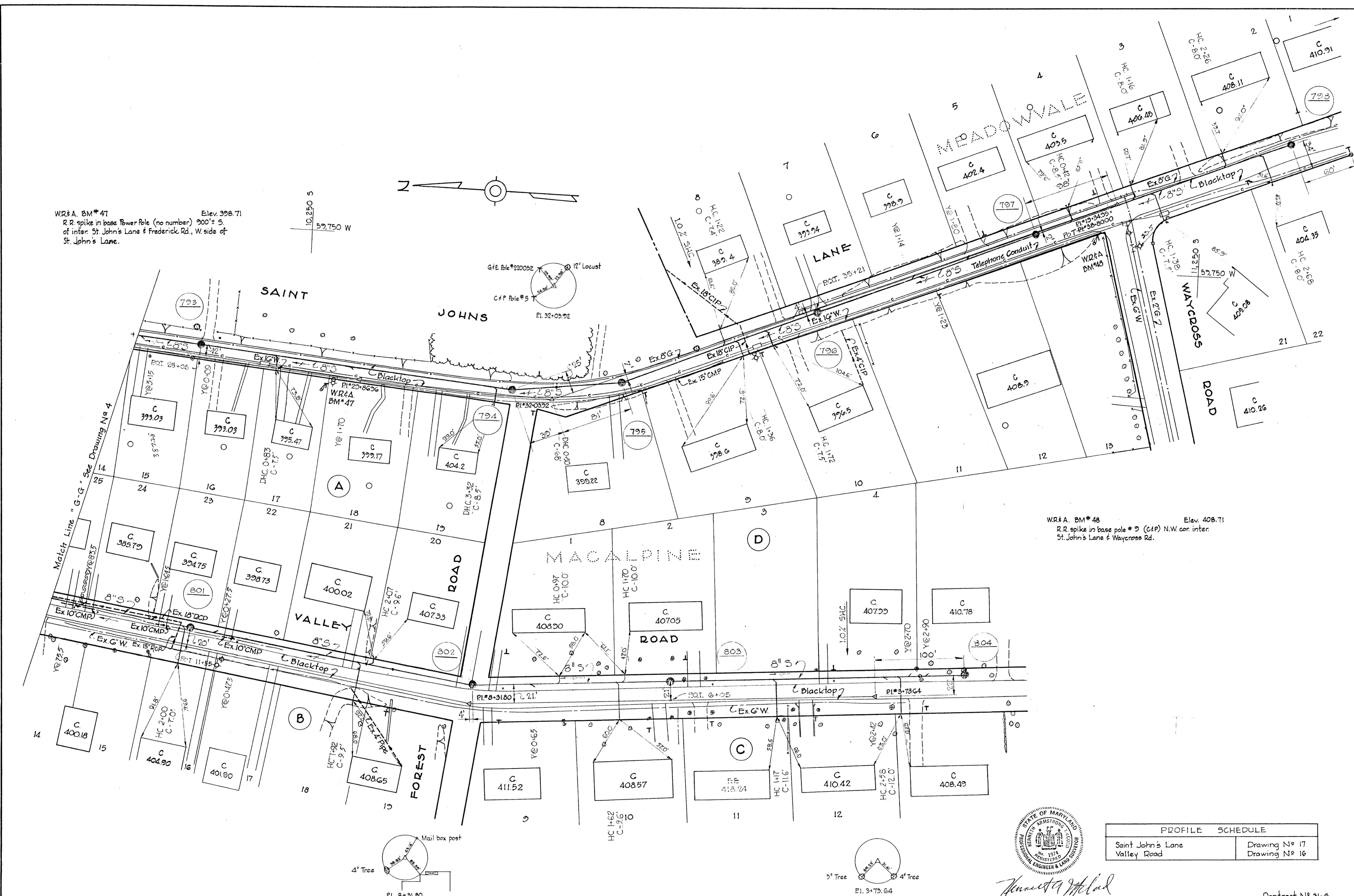
WHITMAN, REQUARDT & ASSOCIATES ENGINEERS 1304 ST. PAUL ST. BALTIMORE, MARYLAND	HOWARD COUNTY METROPOLITAN COMMISSION DATE <i>Dec 16, 1963</i> <i>Carl W. Meyer</i> CHIEF ENGINEER	CONTRACT NO. <u>31-S</u>	PLAN OF SEWER MAINS	ELLICOTT CITY SUB-DISTRICT	DRAWING NO. <u>5</u> OF 24	SCALE 1"=50' 3/10, 11.5W-41 FB*2445, 2176
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WR&A. BM#47 Elev. 398.71
 R.R. spike in base Power Pole (no number) 900'± S.
 of inter. St. John's Lane & Frederick Rd., W. side of
 St. John's Lane.

10,250 S
 59,750 W



WR&A. BM#48 Elev. 408.71
 R.R. spike in base pole #9 (C.F.) N.W. cor. inter.
 St. John's Lane & Waycross Rd.



Kenneth A. McLeod

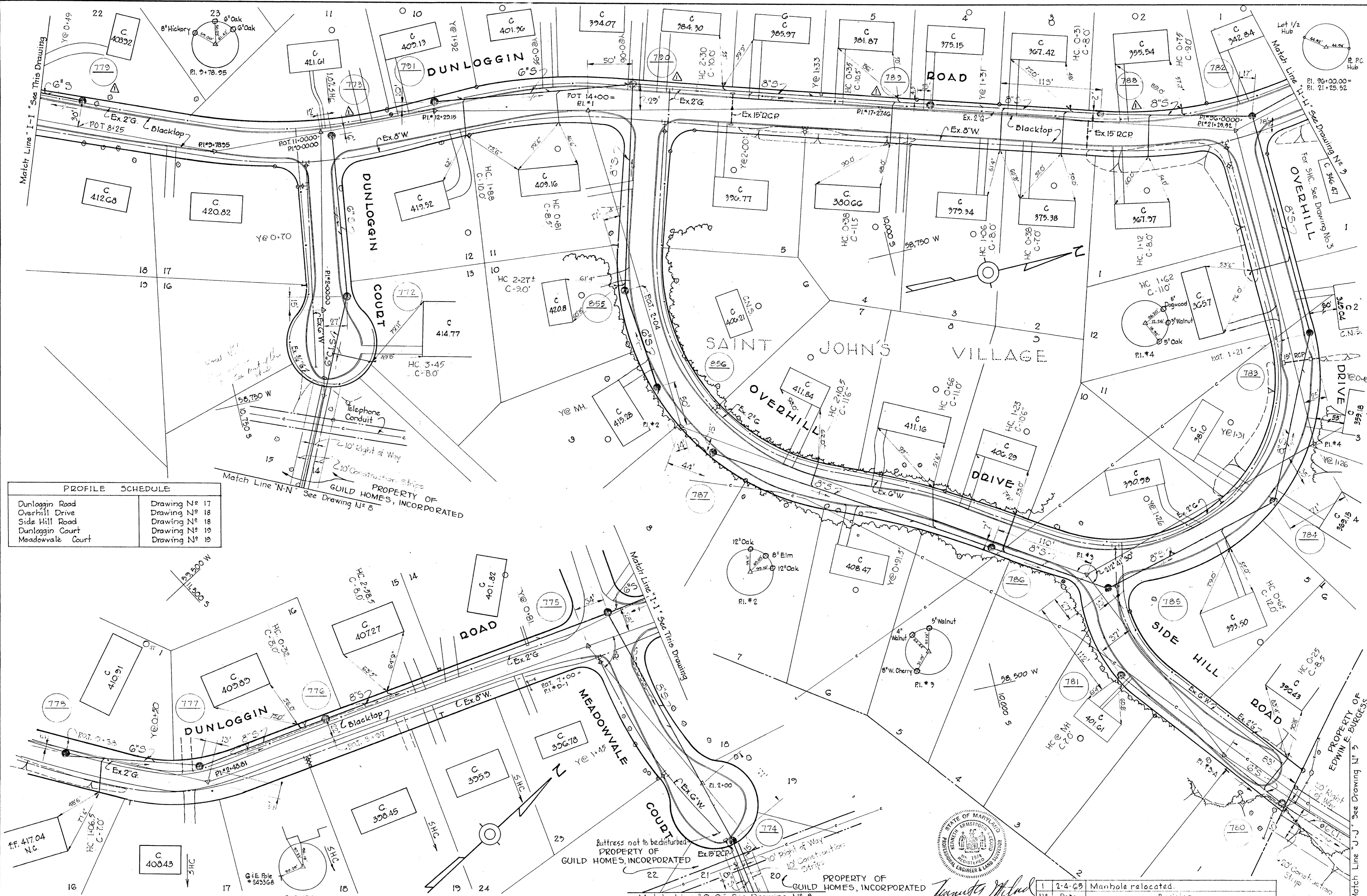
PROFILE SCHEDULE	
Saint John's Lane	Drawing N# 17
Valley Road	Drawing N# 16

Contract N# 31-S

WHITMAN, REQUARDT & ASSOCIATES ENGINEERS 1304 ST. PAUL ST. BALTIMORE, MARYLAND	HOWARD COUNTY METROPOLITAN COMMISSION Dec. 16, 1963 DATE <i>Carl W. Meyer</i> CHIEF ENGINEER	CONTRACT NO. 31-S	PLAN OF SEWER MAINS	ELLICOTT CITY SUB-DISTRICT	DRAWING NO. 6	SCALE 1" = 50'
					OF 24	115W41, 115W40 125W40 FB# 2145

W. O. 5010-2

AS BUILT 28 FEB. 66



PROFILE SCHEDULE	
Dunloggin Road	Drawing N ^o 17
Overhill Drive	Drawing N ^o 18
Side Hill Road	Drawing N ^o 18
Dunloggin Court	Drawing N ^o 19
Meadowvale Court	Drawing N ^o 19

WHITMAN, REQUARDT & ASSOCIATES
ENGINEERS
1304 ST. PAUL ST.
BALTIMORE, MARYLAND

HOWARD COUNTY METROPOLITAN COMMISSION
Dec. 16, 1963
DATE
[Signature]
CHIEF ENGINEER

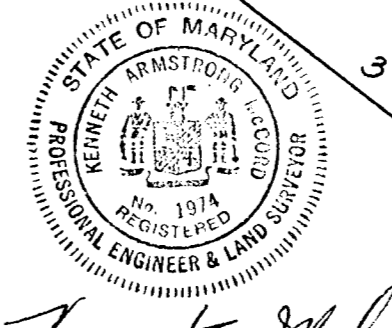
CONTRACT NO. 31-S

PLAN OF
SEWER MAINS

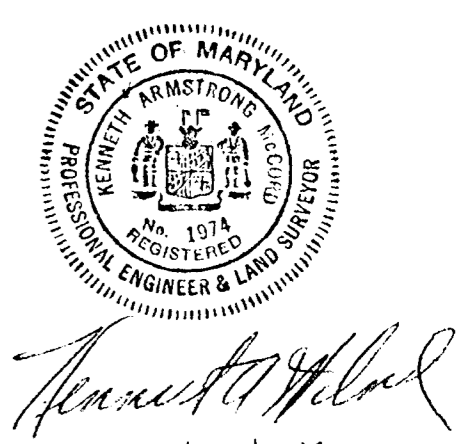
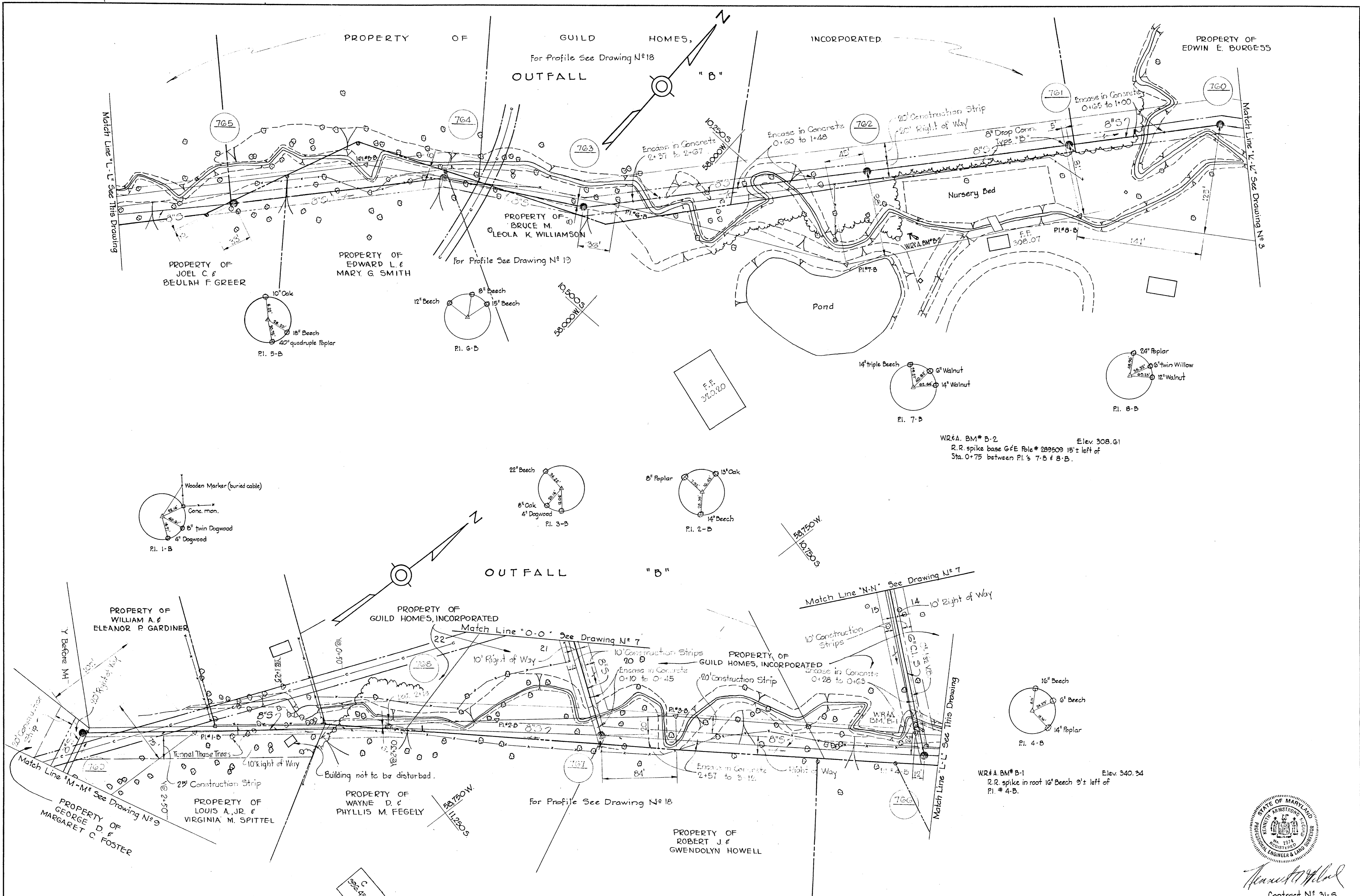
ELLICOTT CITY SUB-DISTRICT

DRAWING NO. 7 OF 24
SCALE 1" = 50'


N ^o	Date	Revision
1	2-4-65	Manhole relocated.

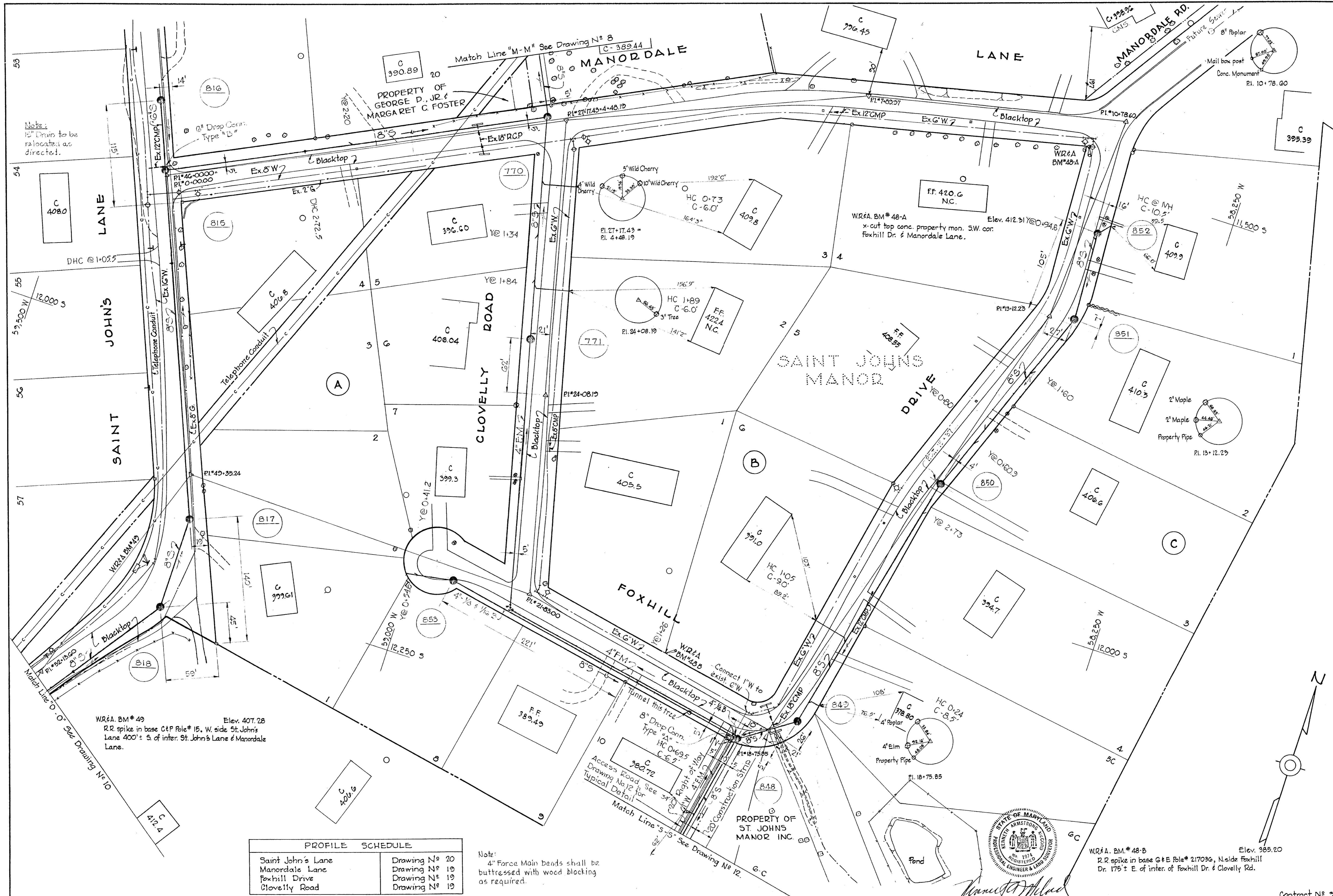


[Signature]



Contract N° 31-S

WHITMAN, REQUARDT & ASSOCIATES ENGINEERS 1304 ST. PAUL ST. BALTIMORE, MARYLAND	HOWARD COUNTY METROPOLITAN COMMISSION Dec. 16, 1963 DATE  CHIEF ENGINEER	CONTRACT NO. 31-S	PLAN OF SEWER MAINS	ELLICOTT CITY SUB-DISTRICT	DRAWING NO. 8 OF 24 SCALE 1" = 50' 10.11.12 SW 2D 11.12 SW 4D FB # 2616
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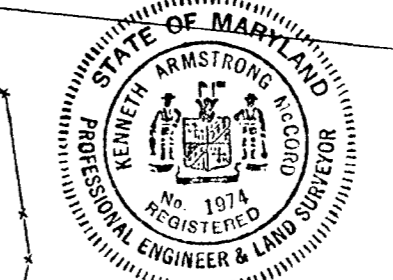
Note:
12" Drains to be
relocated as
directed.

WR&A. BM# 49
Elev. 407.28
R.R. spike in base of Pole # 15, W. side St. John's
Lane 400' ± S. of inter. St. John's Lane & Manordale
Lane.

WR&A. BM# 48-B
Elev. 385.20
R.R. spike in base of Pole # 217096, N. side Foxhill
Dr. 175' ± E. of inter. of Foxhill Dr. & Clovelly Rd.

PROFILE SCHEDULE	
Saint John's Lane	Drawing N° 20
Manordale Lane	Drawing N° 19
Foxhill Drive	Drawing N° 19
Clovelly Road	Drawing N° 19

Note:
4" Force Main bends shall be
buttressed with wood blocking
as required.



Kenneth W. Armstrong

Contract N° 31-5

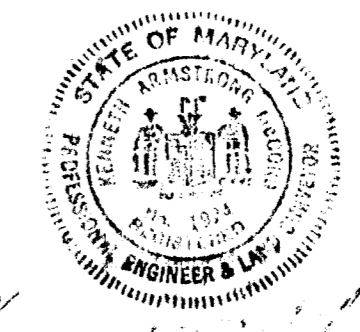
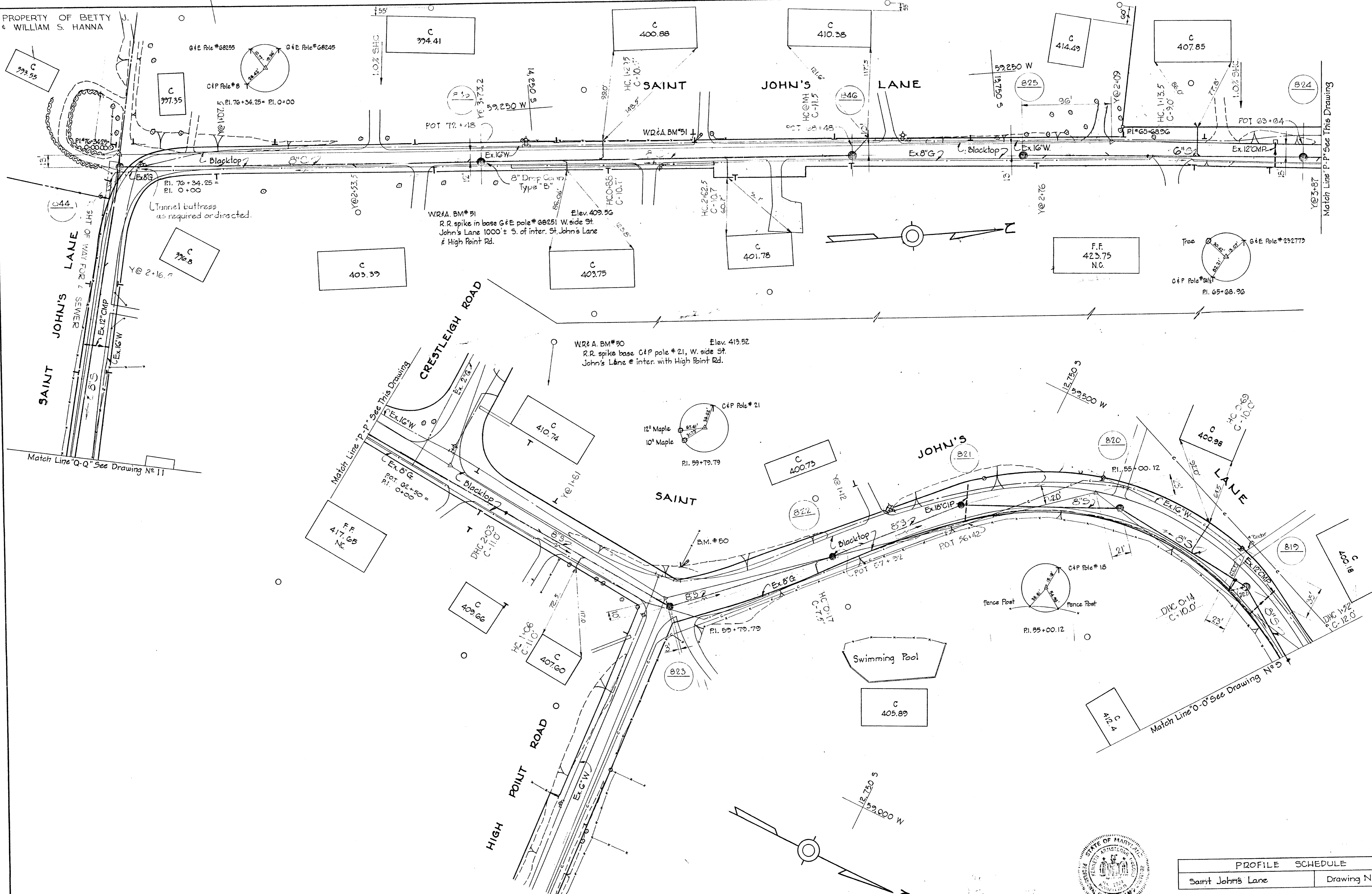
WHITMAN, REQUARDT & ASSOCIATES ENGINEERS 1304 ST. PAUL ST. BALTIMORE, MARYLAND	HOWARD COUNTY METROPOLITAN COMMISSION Dec 16, 1963 DATE	CONTRACT NO. 31-S	PLAN OF SEWER MAINS	ELLCOTT CITY SUB-DISTRICT	DRAWING NO. 9 OF 24	SCALE 1"=50'
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W. O. 5010-2

AS BUILT 28 FEB. 66

12 SW 30 440
155 W 30 440
FB. 2115

PROPERTY OF BETTY & WILLIAM S. HANNA



PROFILE SCHEDULE	
Saint John's Lane	Drawing No. 20

Contract No. 31-5

WHITMAN, REQUARDT & ASSOCIATES
ENGINEERS
1304 ST. PAUL ST.
BALTIMORE, MARYLAND

HOWARD COUNTY METROPOLITAN COMMISSION
Dec. 16, 1963
DATE
Carl W. Meyer
CHIEF ENGINEER

CONTRACT NO. 31-S

PLAN OF SEWER MAINS

ELLCOTT CITY SUB-DISTRICT

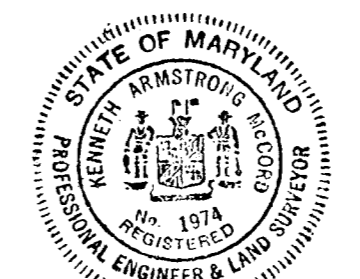
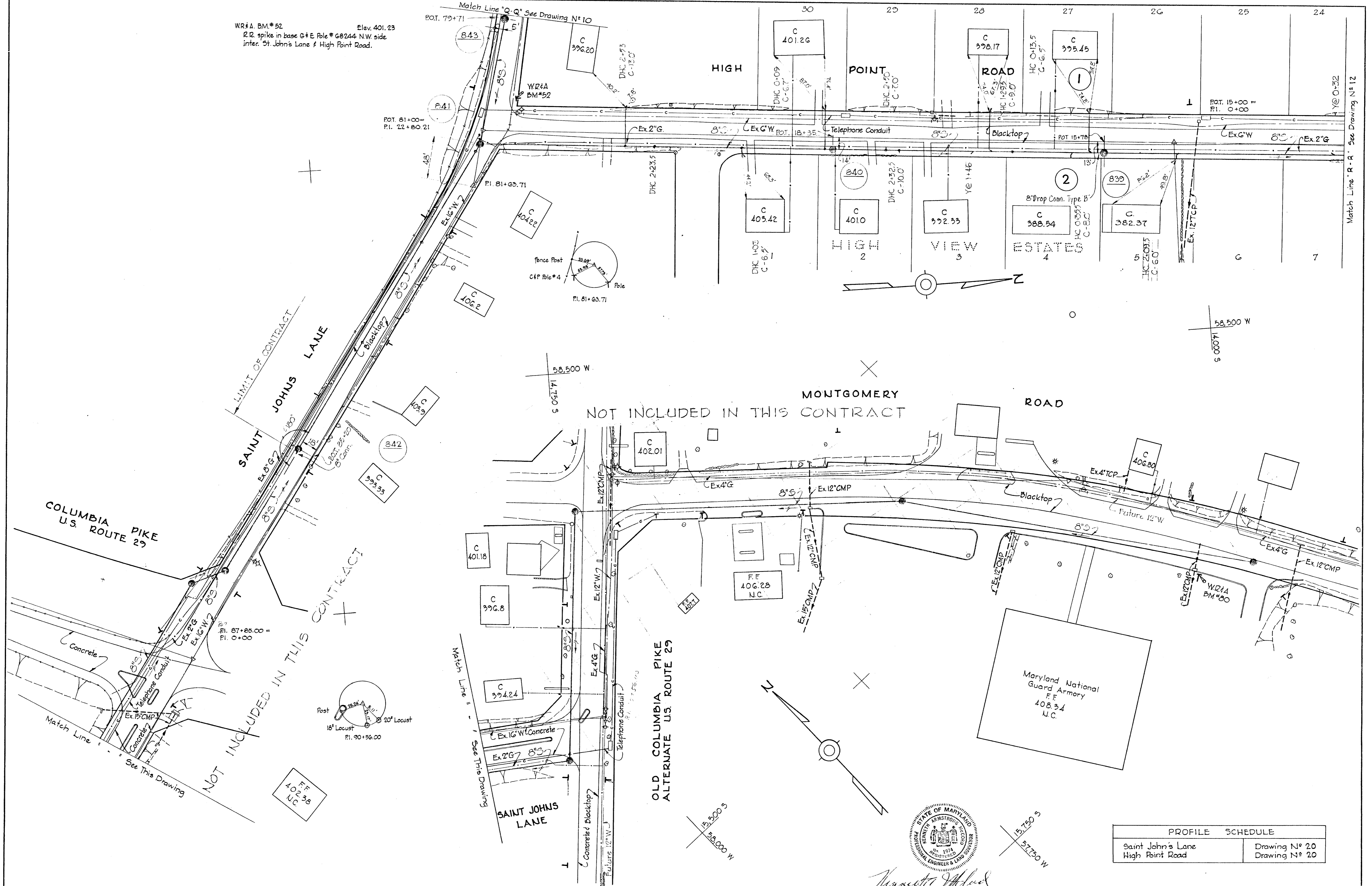
DRAWING NO. 10 OF 24

SCALE 1"=50'

AS BUILT 28 FEB. 66

W. O. 5010-2

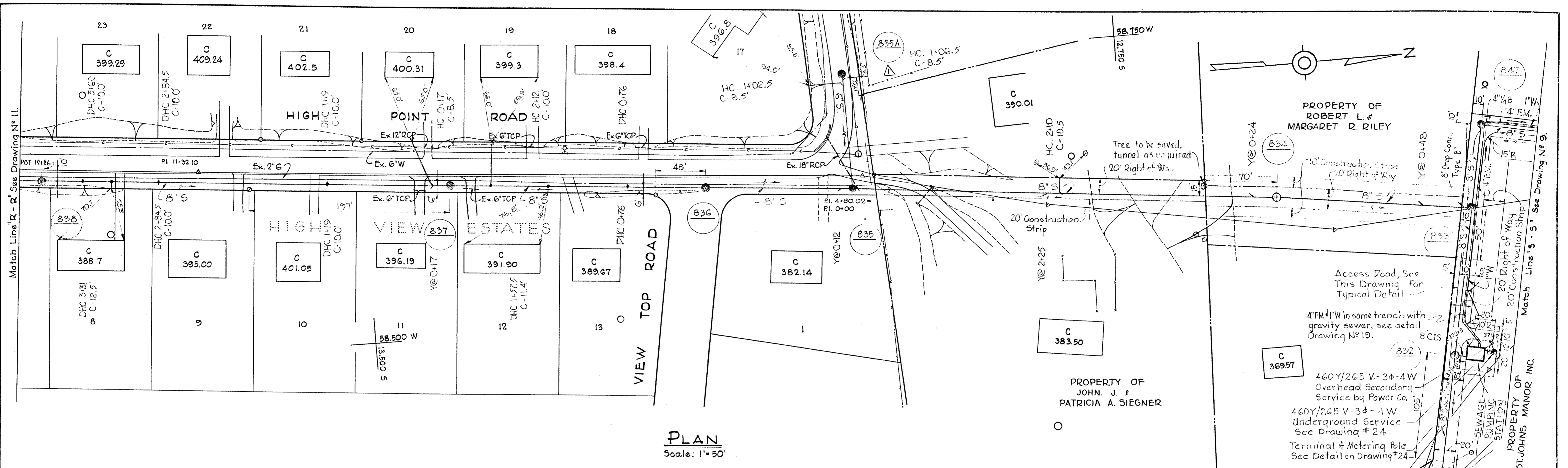
WR&A BM#52 Elev. 401.23
 R.R. spike in base of E Pole # G8244 N.W. side
 inter. St. John's Lane & High Point Road.



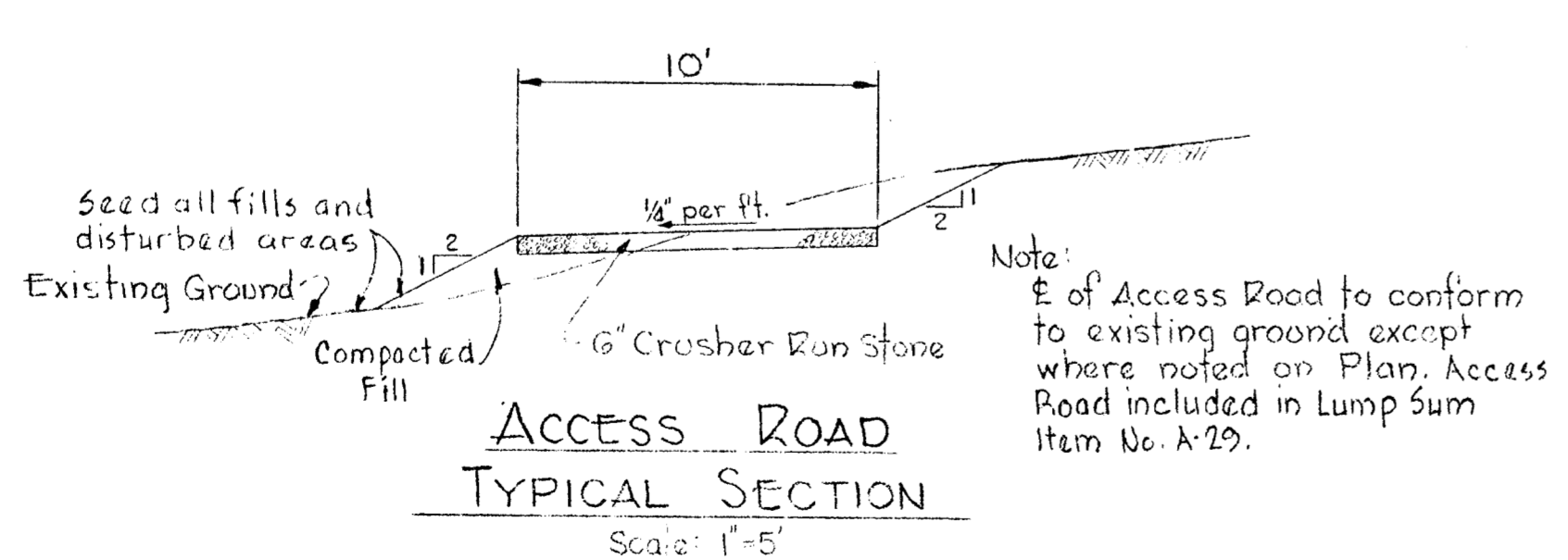
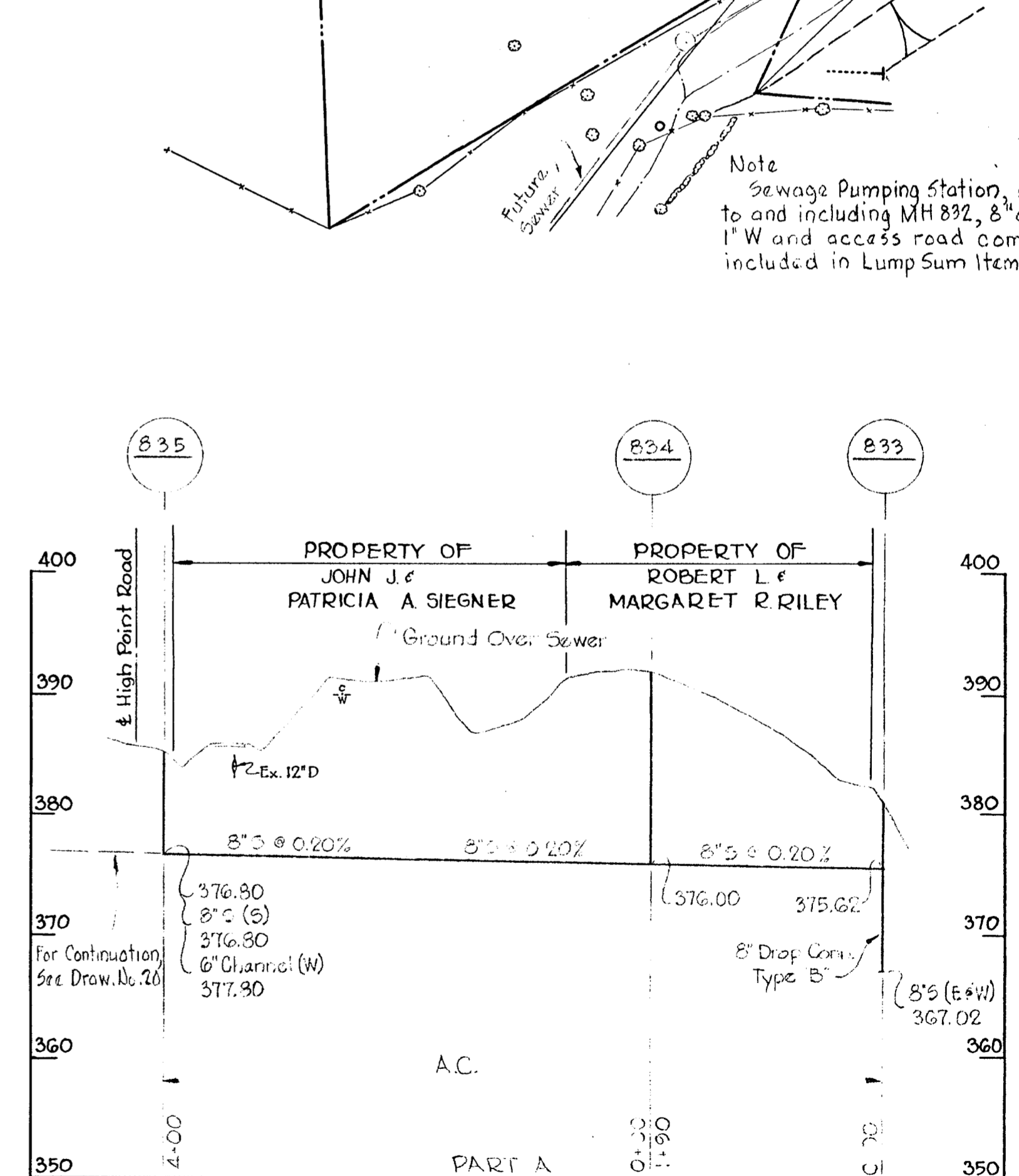
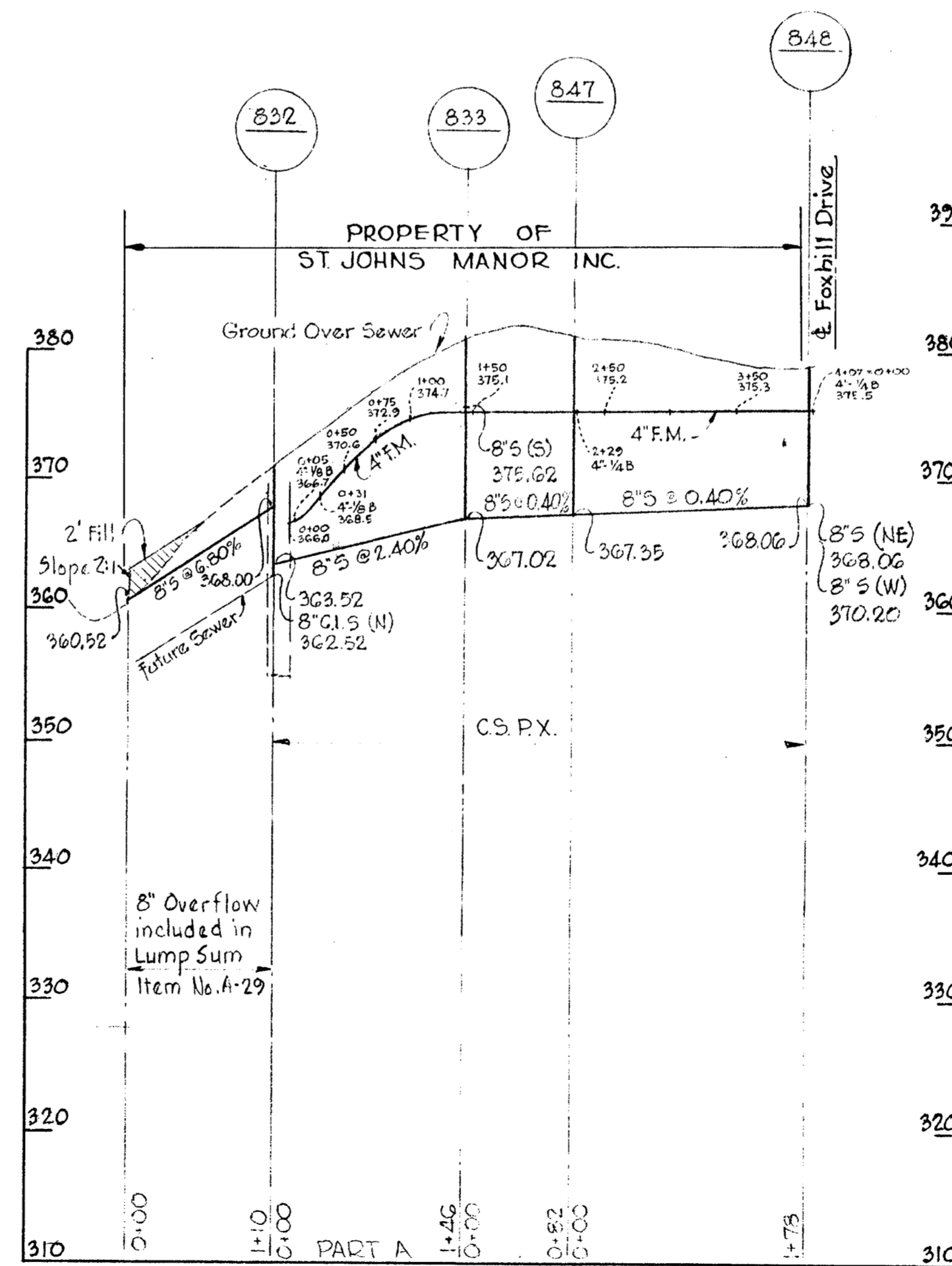
Armstrong & Associates

PROFILE SCHEDULE	
Saint John's Lane	Drawing N° 20
High Point Road	Drawing N° 20

WHITMAN, REQUARDT & ASSOCIATES ENGINEERS 1304 ST. PAUL ST. BALTIMORE, MARYLAND	HOWARD COUNTY METROPOLITAN COMMISSION DATE Dec 16, 1963 <i>Carl W. Meyer</i> CHIEF ENGINEER	CONTRACT NO. 31-S	PLAN OF SEWER MAINS	ELLICOTT CITY SUB-DISTRICT	DRAWING NO. 11 OF 24	SCALE 1"=50' <small>15 5/8" x 11 1/2" SW 25 15 5/8" x 11 1/2" SW 40</small>
					Contract N° 31-5	



PLAN
Scale: 1" = 50'



No.	Date	Revision
1	6-28-65	Manhole 835-A added.



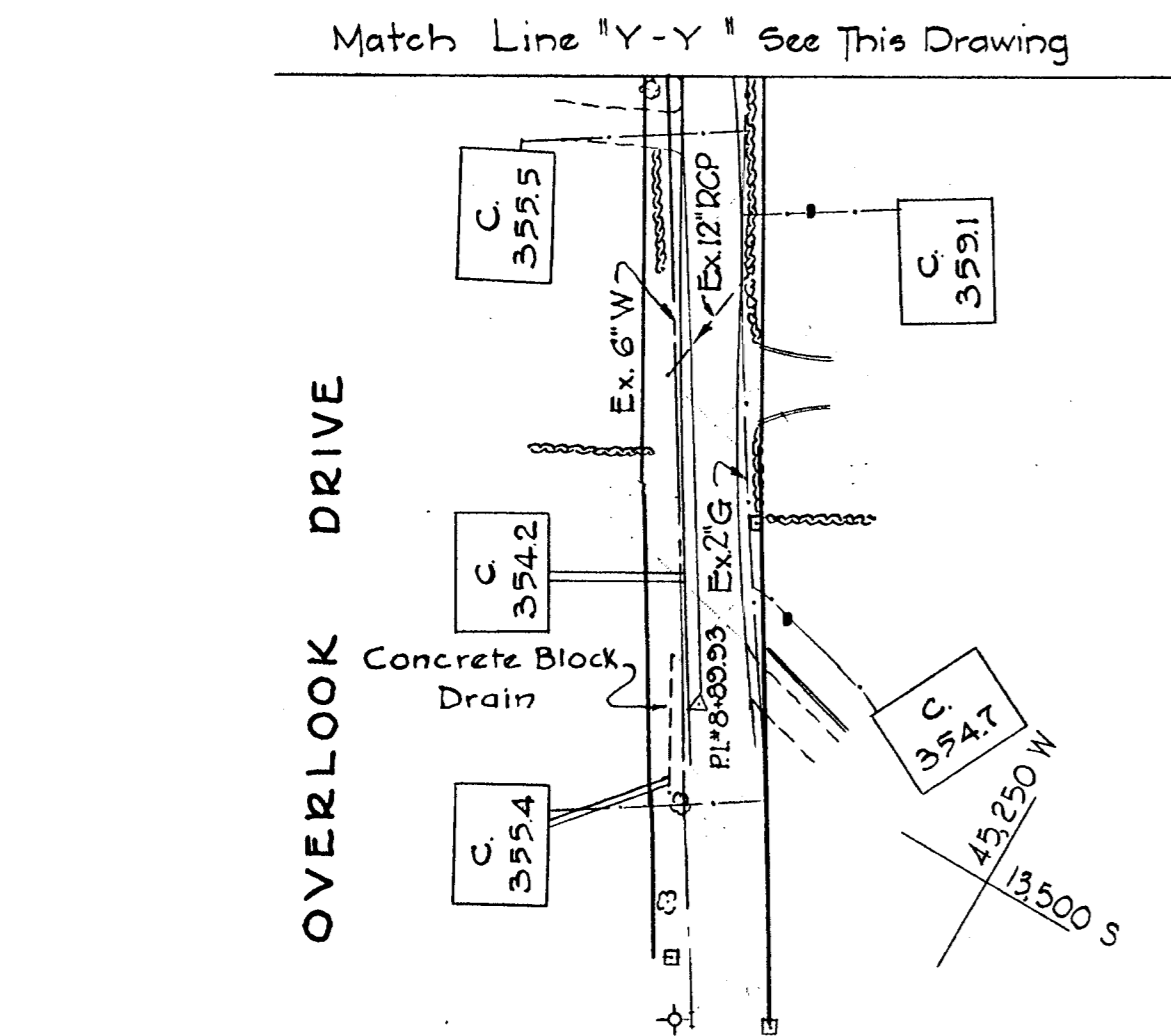
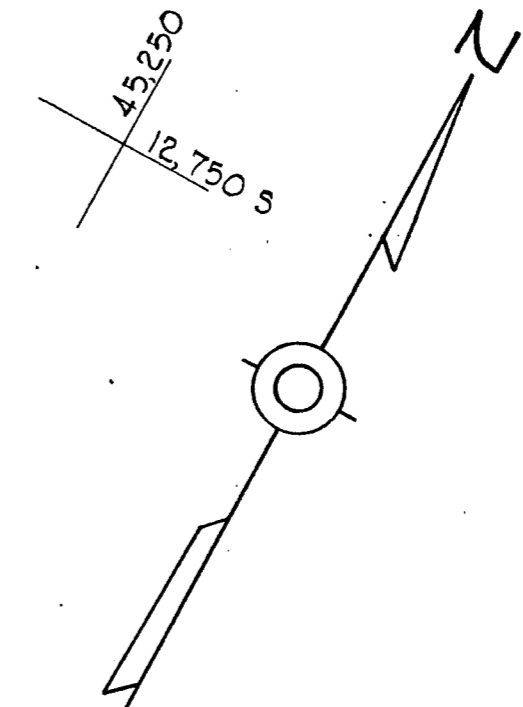
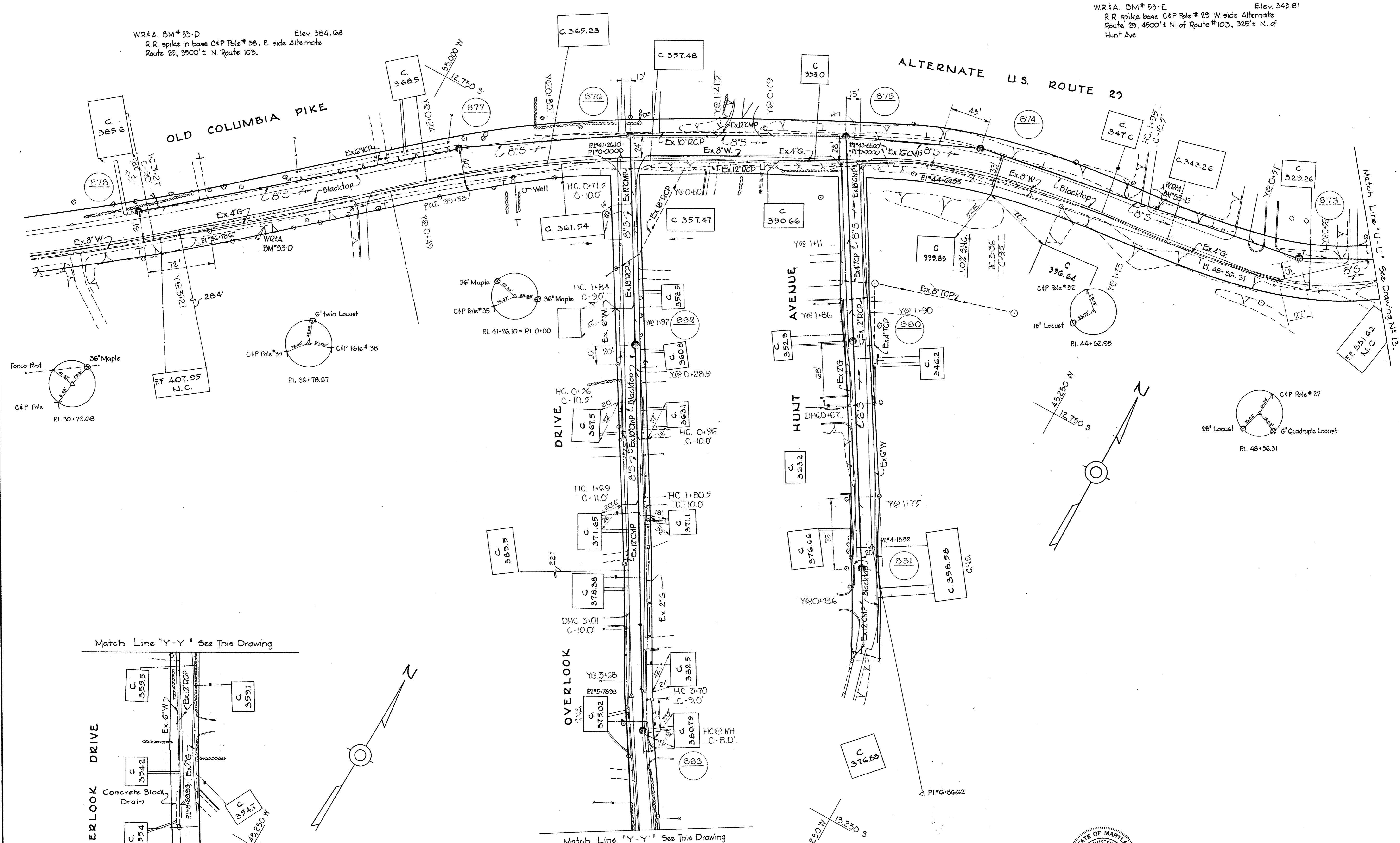
Kenneth M. Mad
Professional Engineer

PROFILE SCHEDULE	
High Point Road	Drawing No. 20

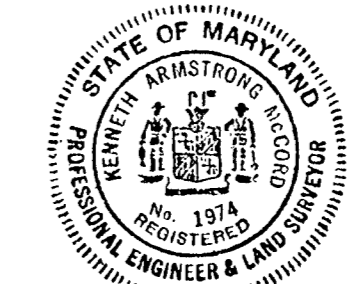
WHITMAN, REQUARDT & ASSOCIATES ENGINEERS 1304 ST. PAUL ST. BALTIMORE, MARYLAND	HOWARD COUNTY METROPOLITAN COMMISSION Dec. 16, 1963 DATE <i>David W. Kruger</i> CHIEF ENGINEER	CONTRACT NO. 31-S	PLAN & PROFILE OF SEWER MAINS	ELLICOTT CITY SUB-DISTRICT	DRAWING NO. 12 OF 24	SCALE AS SHOWN
					Contract No. 31-S	

WR & A. BM# 53-E Elev. 349.81
 R.R. spike base C&P Pole# 29 W. side Alternate
 Route 29. 4500' ± N. of Route #103, 325' ± N. of
 Hunt Ave.

WR & A. BM# 53-D Elev. 384.68
 R.R. spike in base C&P Pole# 38, E. side Alternate
 Route 29, 3500' ± N. Route 103.




PROFILE SCHEDULE	
Old Columbia Pike	Drawing N ^o 21
Overlook Drive	Drawing N ^o 21
Hunt Avenue	Drawing N ^o 21



Kenneth H. Helrod

Contract N^o 31-S

WHITMAN, REQUARDT & ASSOCIATES
 ENGINEERS
 1304 ST. PAUL ST.
 BALTIMORE, MARYLAND

HOWARD COUNTY METROPOLITAN COMMISSION
 Dec. 16, 1963
 DATE

 CHIEF ENGINEER

CONTRACT NO. 31-S

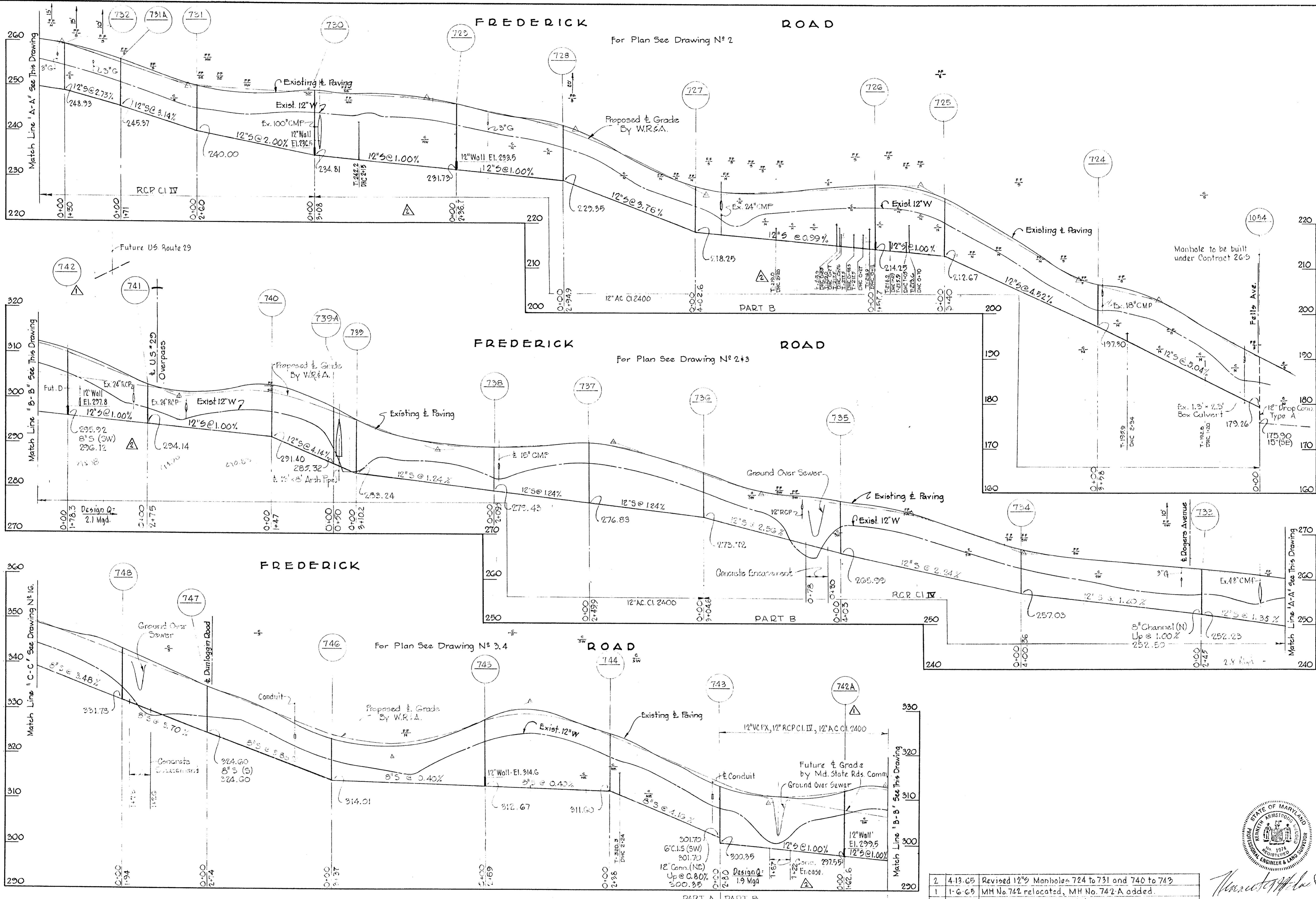
PLAN OF
 SEWER MAINS

ELLCOTT CITY SUB-DISTRICT

DRAWING NO. 14 OF 24	SCALE
	1"=50'
	<small>15 5/8" x 21 1/2" 14 5/8" x 36" 14 5/8" x 37"</small>

W.O. 5010-2

AS BUILT 28 FEB 66



N ^o	Date	Revision
2	4-13-65	Revised 12" Manholes 724 to 731 and 740 to 743
1	1-6-65	MH No. 742 relocated, MH No. 742-A added.



Handwritten signature

Contract N^o 31-S

WHITMAN, REQUARDT & ASSOCIATES
ENGINEERS
1304 ST. PAUL ST.
BALTIMORE, MARYLAND

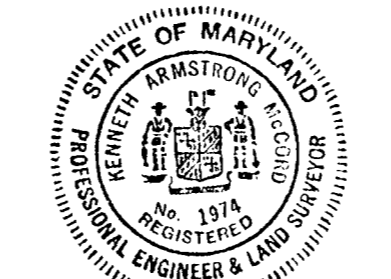
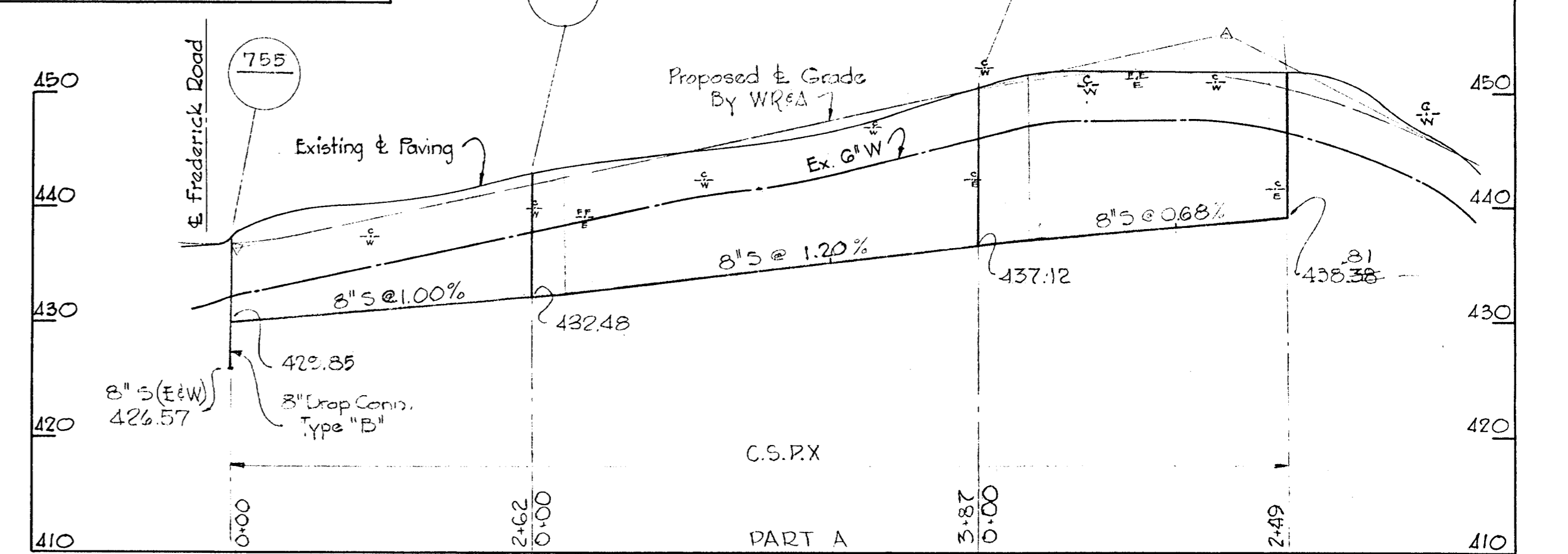
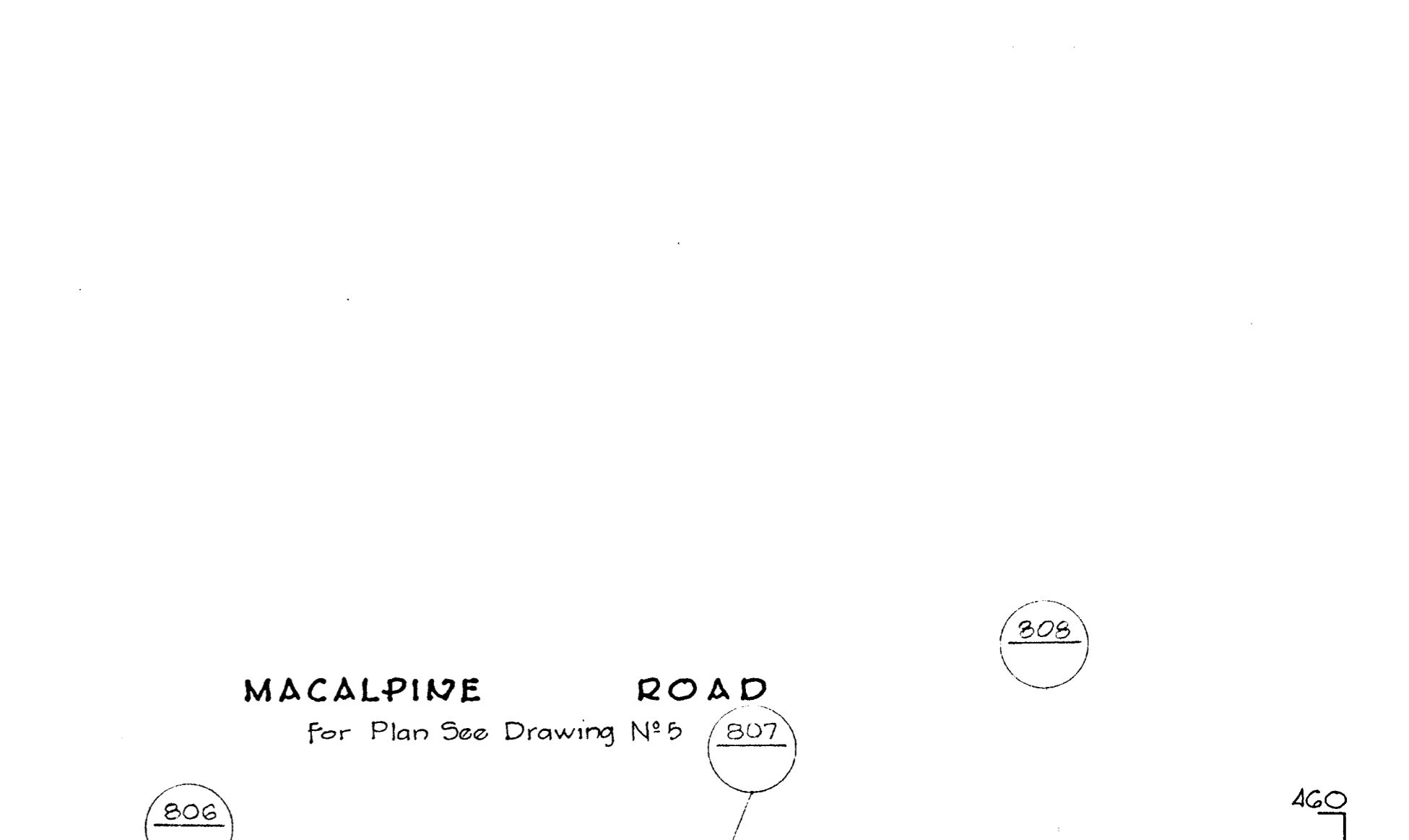
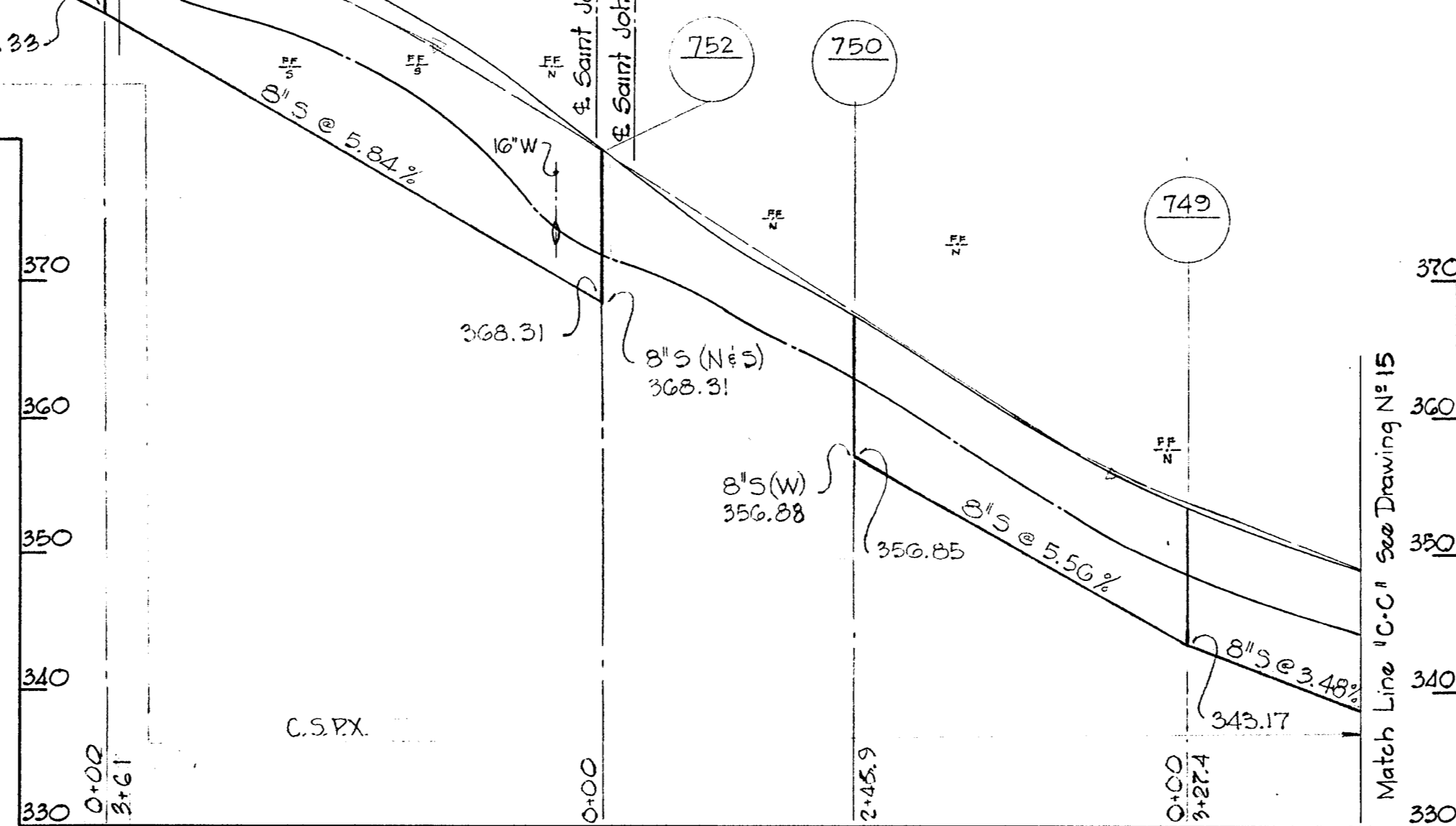
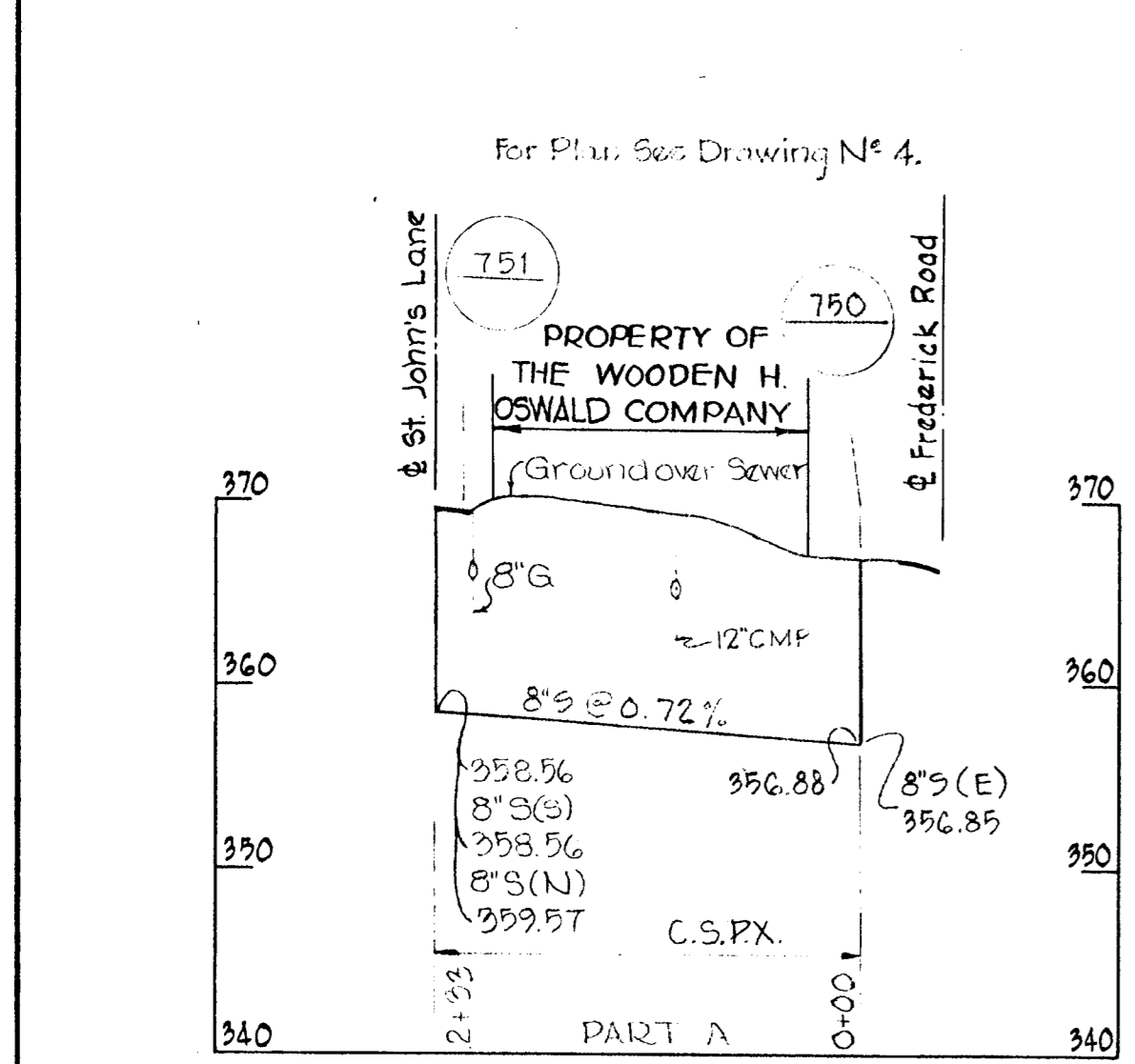
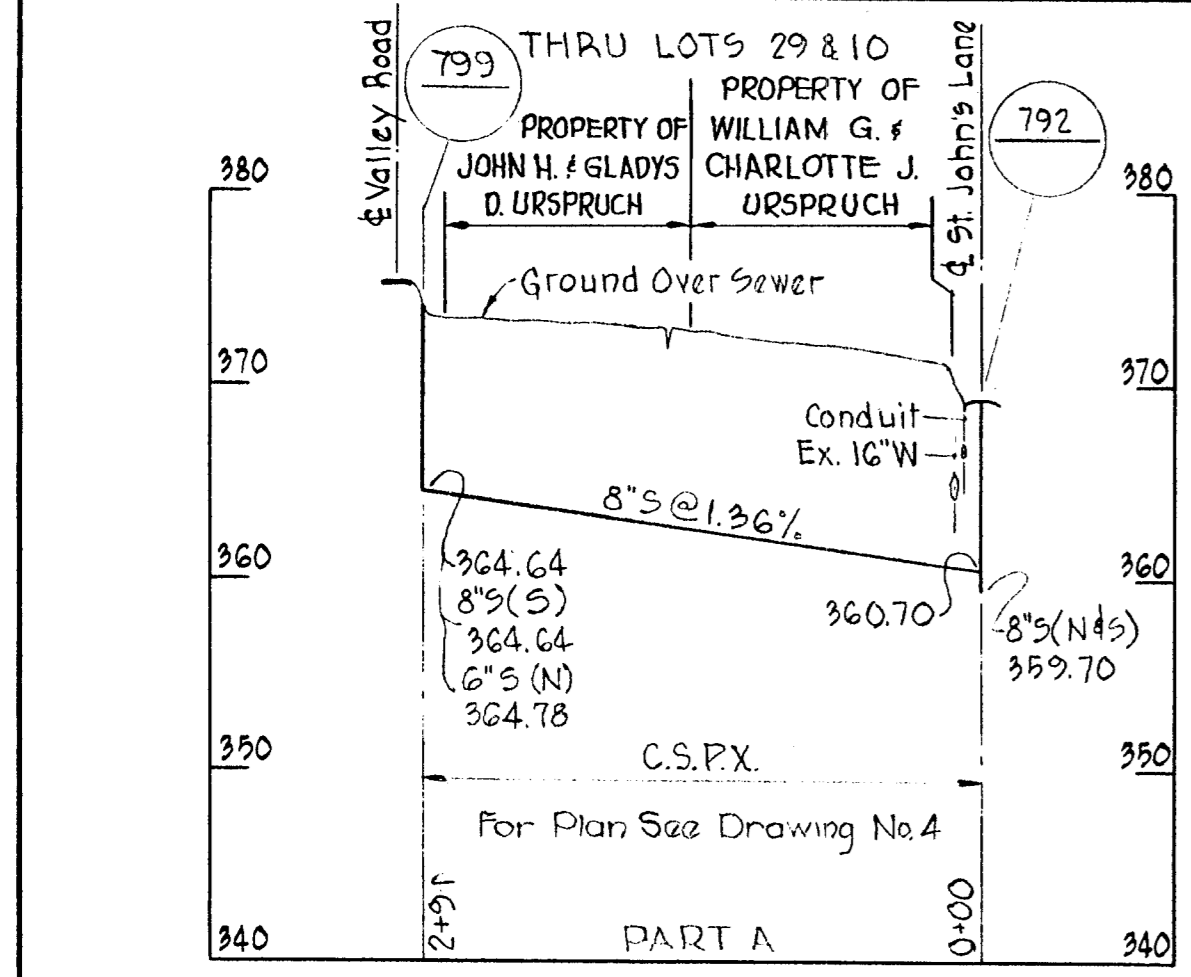
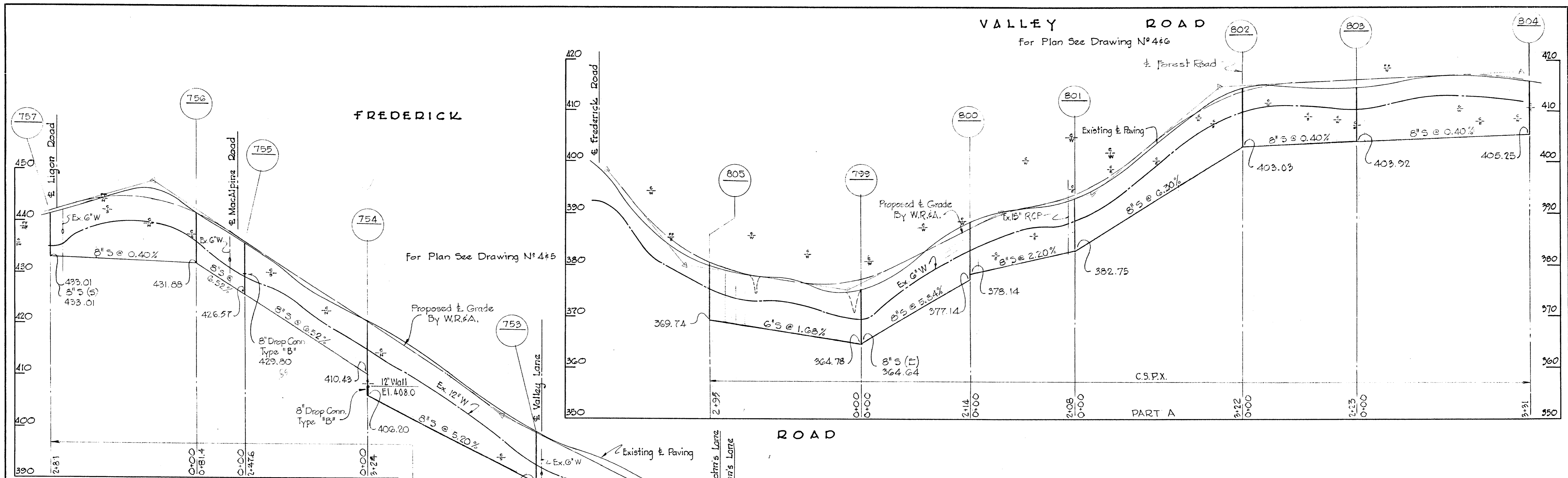
HOWARD COUNTY METROPOLITAN COMMISSION
Dec 16, 1963
DATE
Handwritten signature
CHIEF ENGINEER

CONTRACT NO. 31-S

PROFILES OF
SEWER MAINS

ELLICOTT CITY SUB-DISTRICT

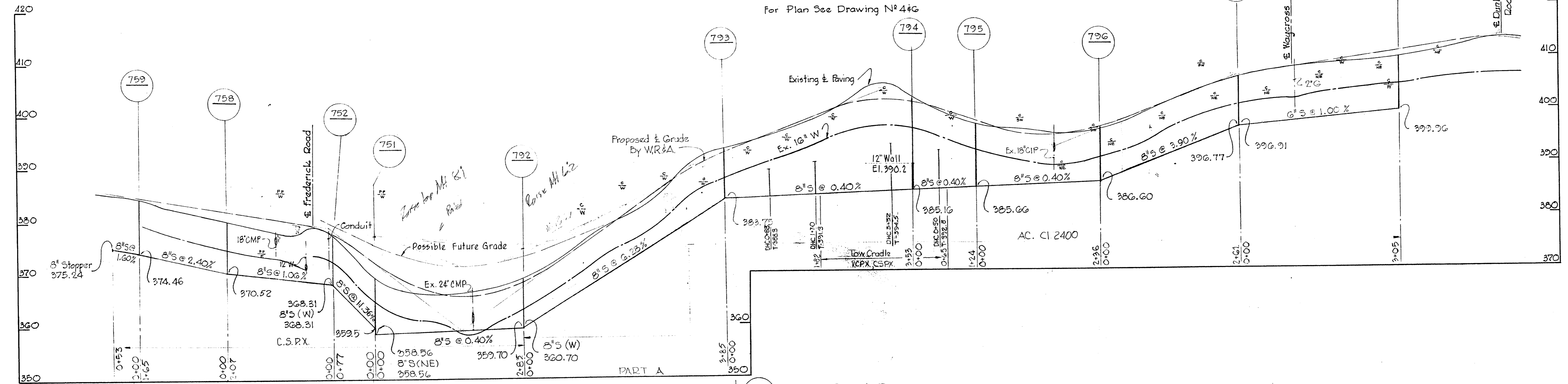
DRAWING NO. 15 OF 24
SCALE H-1"=100'
V-1"=10'



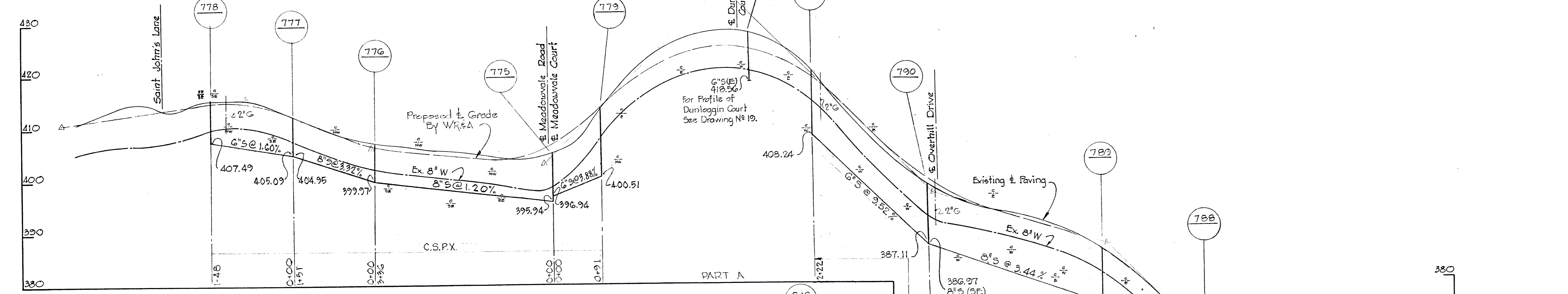
Kenneth H. McLeod

WHITMAN, REQUARDT & ASSOCIATES ENGINEERS 1304 ST. PAUL ST. BALTIMORE, MARYLAND	HOWARD COUNTY METROPOLITAN COMMISSION DATE: Dec. 16, 1963 <i>David L. Meyer</i> CHIEF ENGINEER	CONTRACT NO. 31-S	PROFILES OF SEWER MAINS	ELLICOTT CITY SUB-DISTRICT	DRAWING NO. 16 OF 24 SCALE: H-1"=100', V-1"=10'
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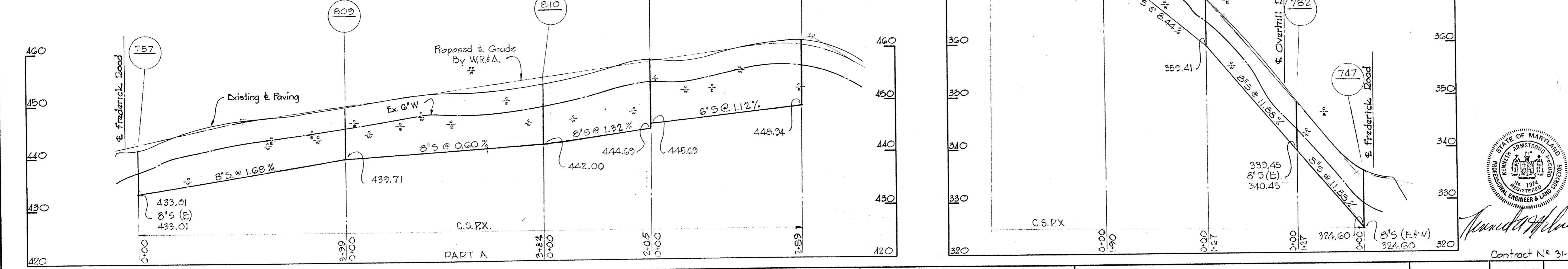
SAINT JOHN'S LANE
For Plan See Drawing N^o 4#G



DUNLOGGIN ROAD
For Plan See Drawing N^o 7



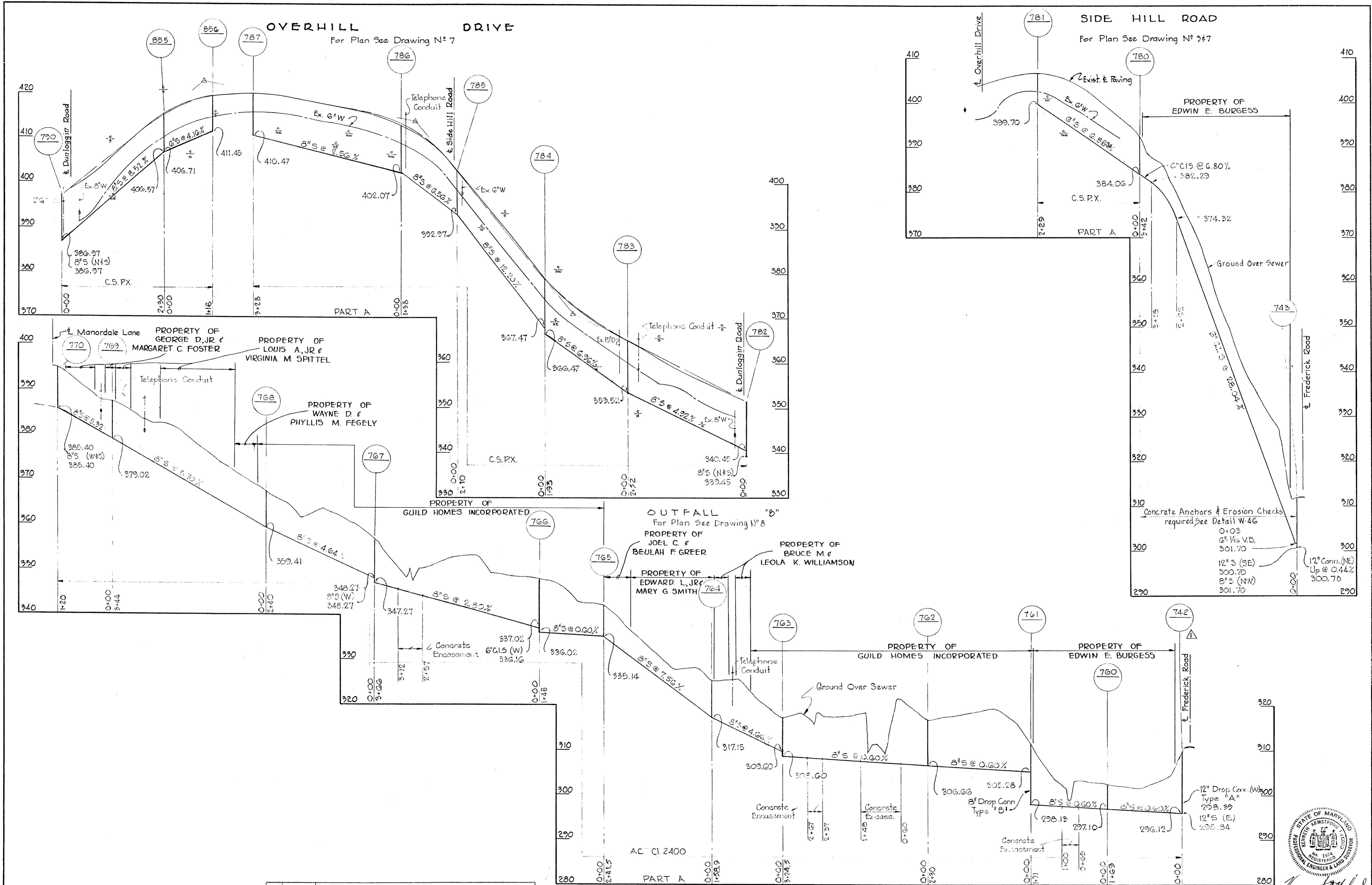
LIGON ROAD
For Plan See Drawing N^o 5



Kenneth Armstrong
Contract N^o 31-5

WHITMAN, REQUARDT & ASSOCIATES ENGINEERS 1304 ST. PAUL ST. BALTIMORE, MARYLAND	HOWARD COUNTY METROPOLITAN COMMISSION Dec. 16, 1963 DATE CHIEF ENGINEER	CONTRACT NO. 31-S	PROFILES OF SEWER MAINS	ELLICOTT CITY SUB-DISTRICT	DRAWING NO. 17 OF 24 SCALE H-1"=100' V-1"=10'
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AS BUILT 28 FEB. 66



No	Date	Revision
1	1-6-65	Manhole No. 742 relocated

WHITMAN, REQUARDT & ASSOCIATES
ENGINEERS
1304 ST. PAUL ST.
BALTIMORE, MARYLAND

HOWARD COUNTY METROPOLITAN COMMISSION
Dec. 16, 1963
DATE
Carl W. Meyer
CHIEF ENGINEER

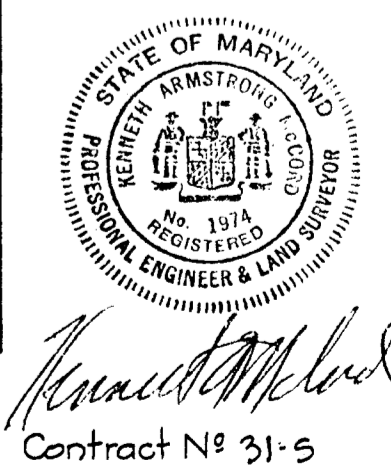
CONTRACT NO. 31-S

PROFILES OF
SEWER MAINS

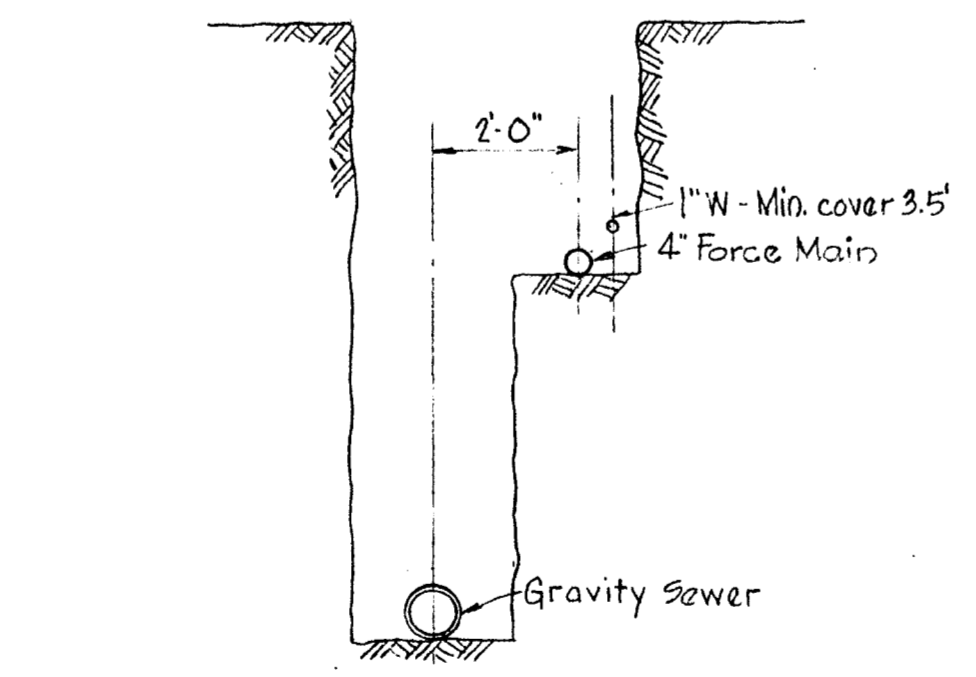
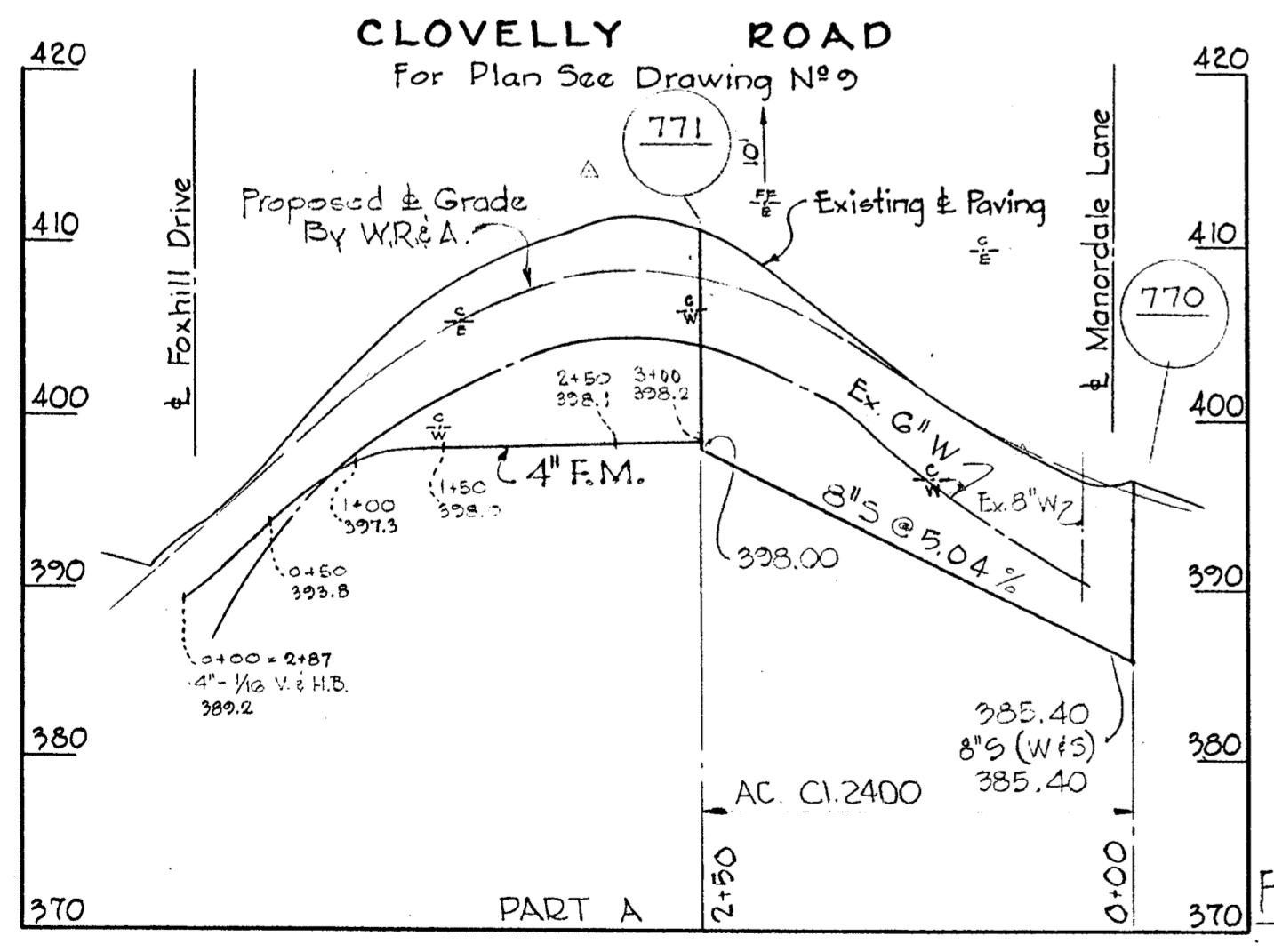
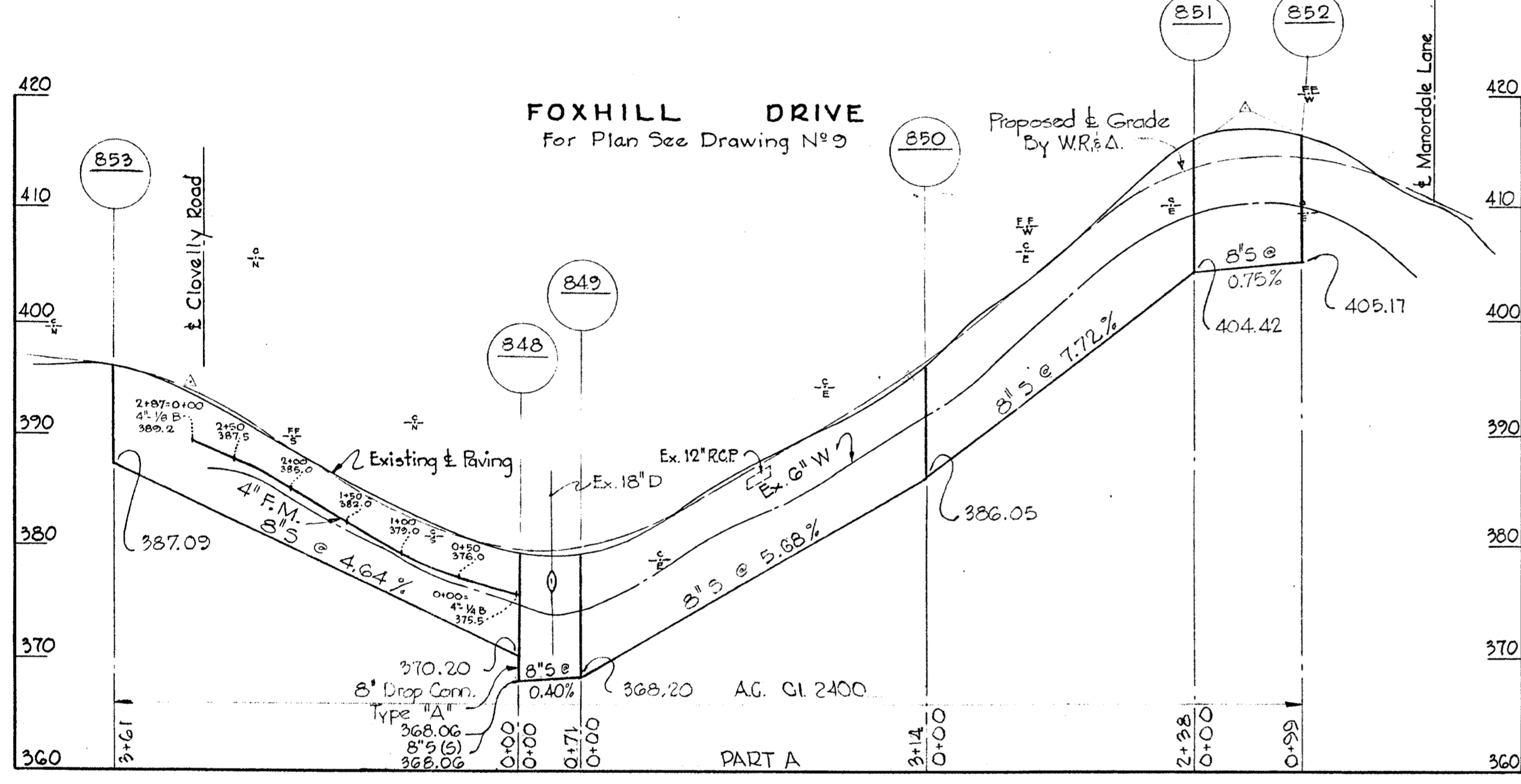
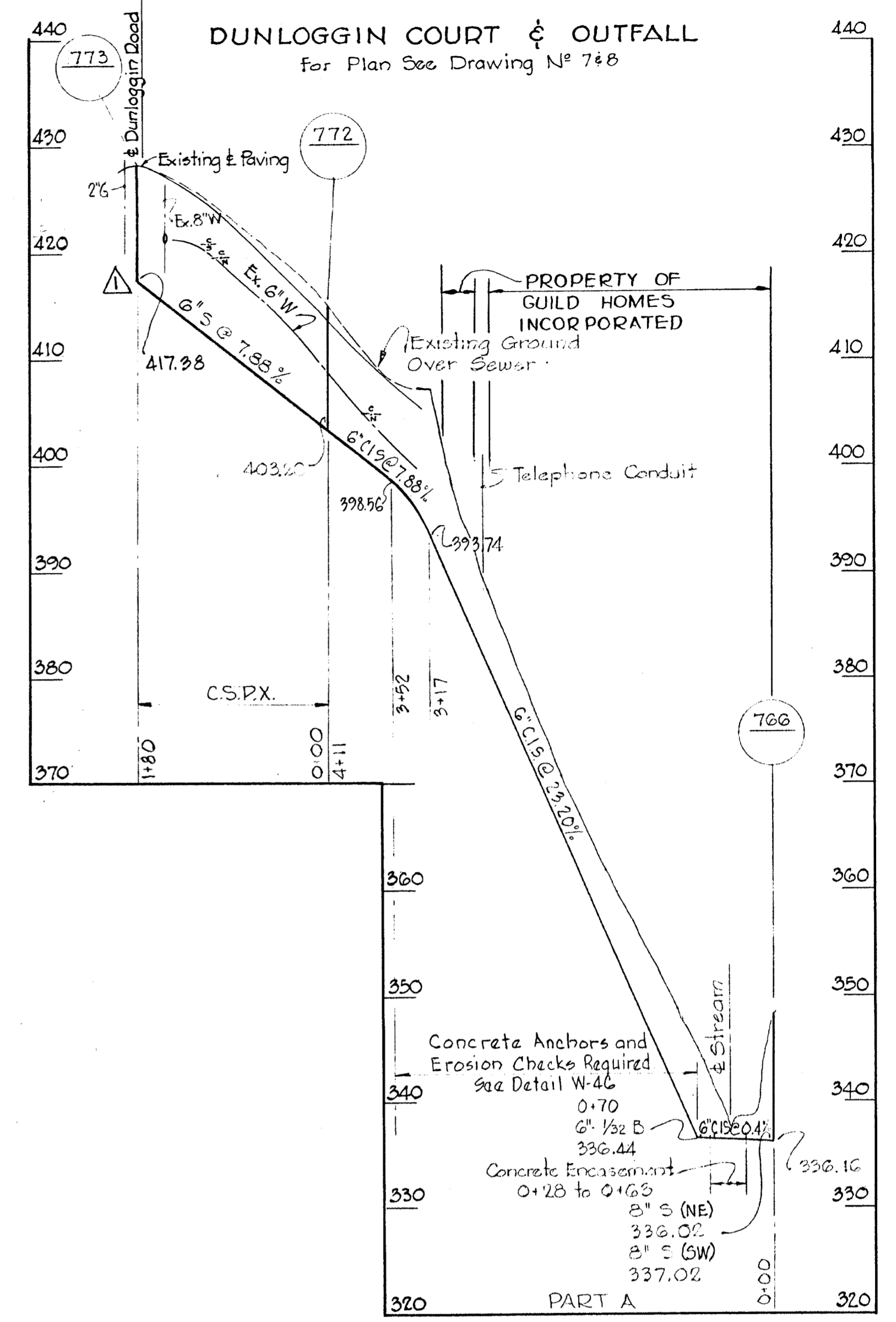
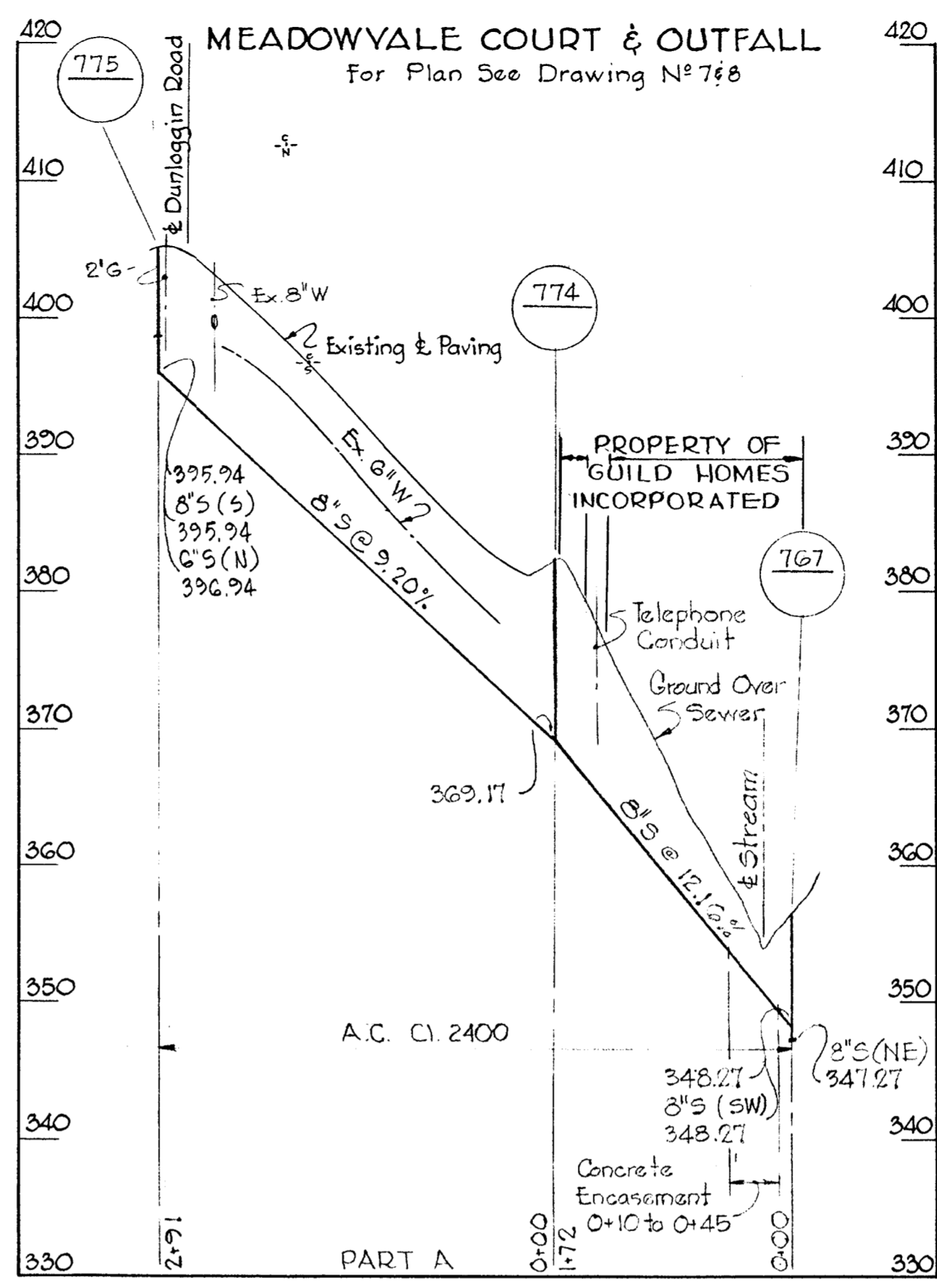
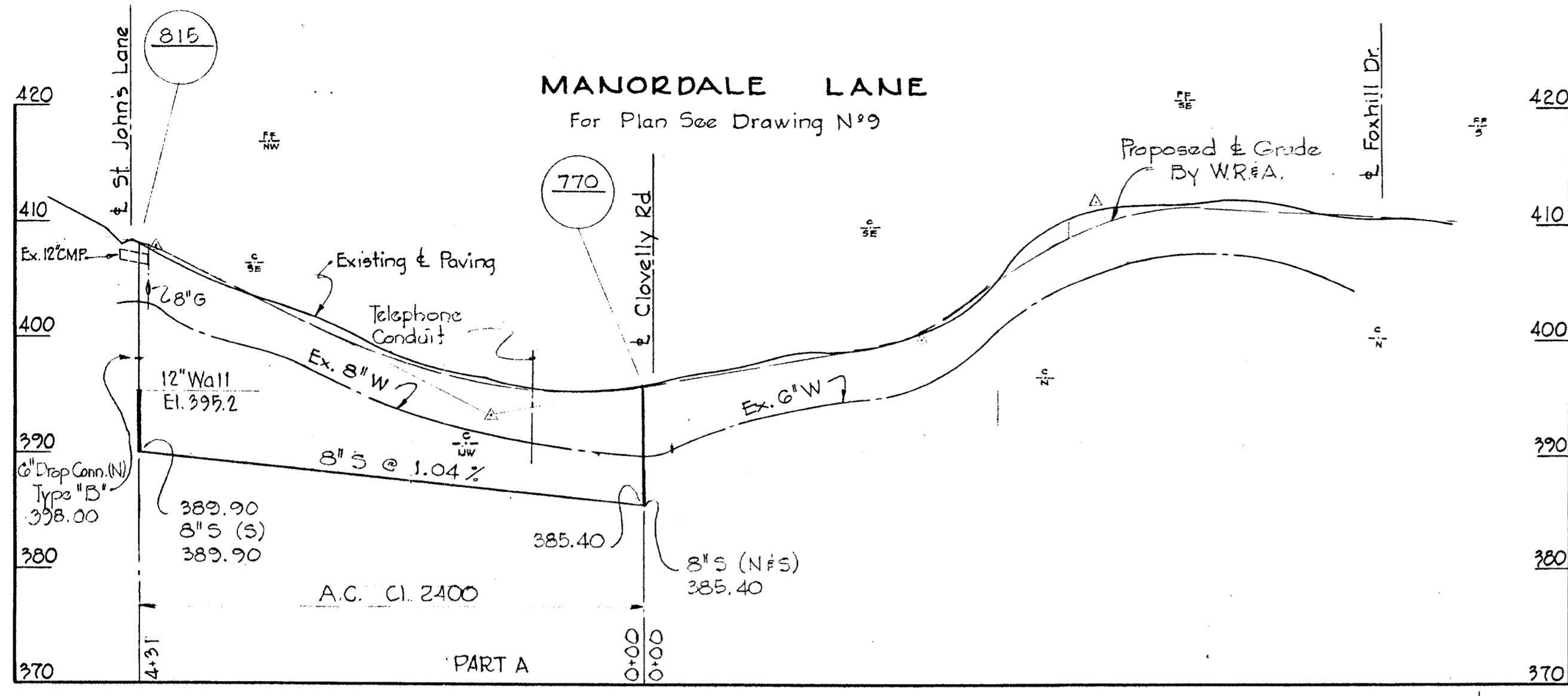
ELLCOTT CITY SUB-DISTRICT

DRAWING
NO. 18
OF 24

SCALE
H-1"=100'
V-1"=10'

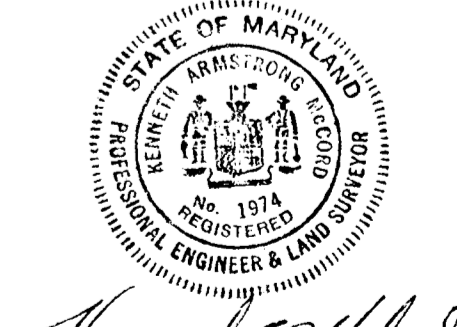


AS BUILT 28 FEB 66



DETAIL GRAVITY SEWER & FORCE MAIN IN THE SAME TRENCH
Scale 3/8" = 1'-0"

N	Date	Revision
1	2-4-65	Manhole relocated.



WHITMAN, REQUARDT & ASSOCIATES
ENGINEERS
1304 ST. PAUL ST.
BALTIMORE, MARYLAND

HOWARD COUNTY METROPOLITAN COMMISSION
Dec 16, 1963
DATE
Chief Engineer

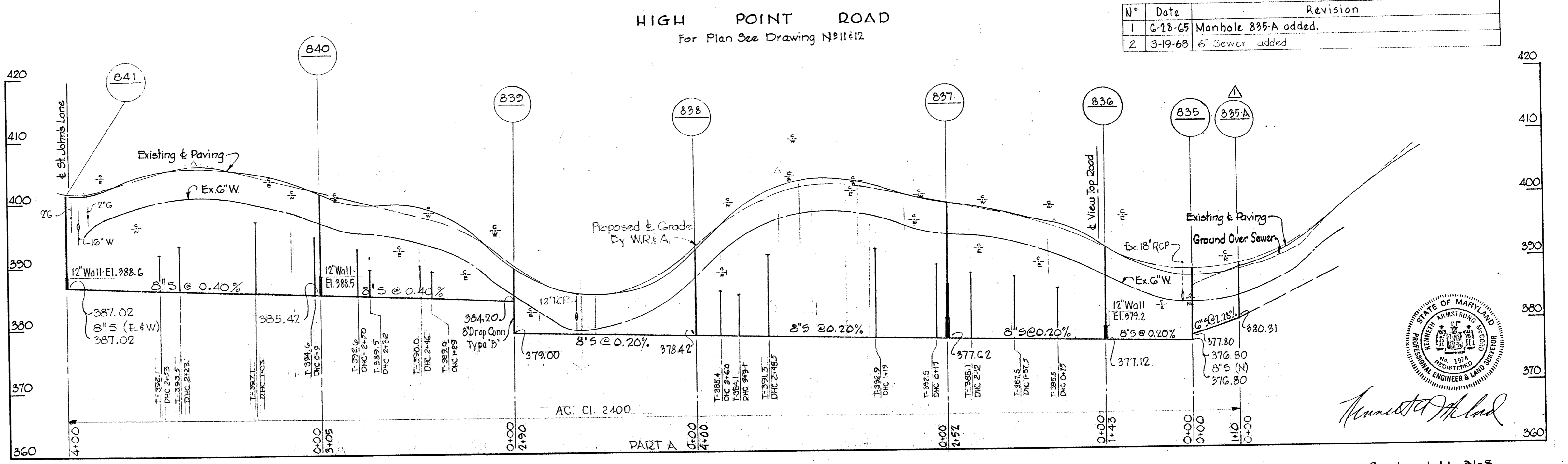
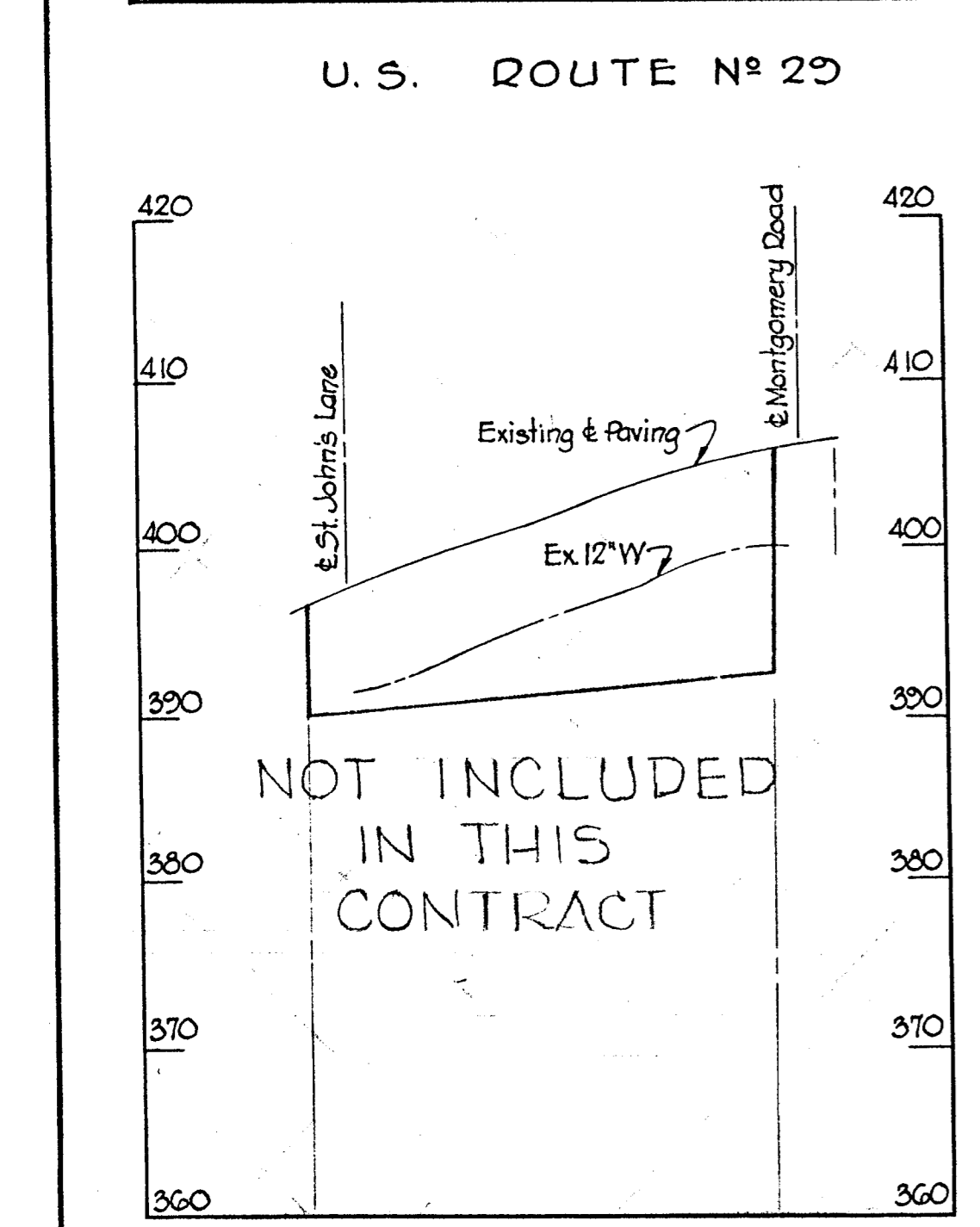
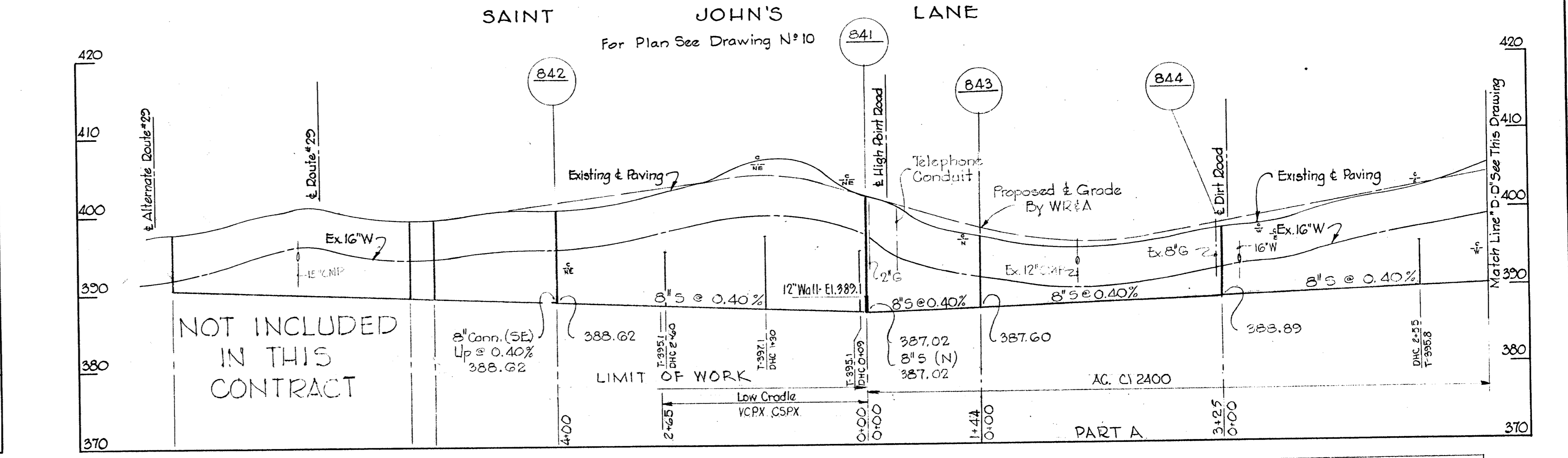
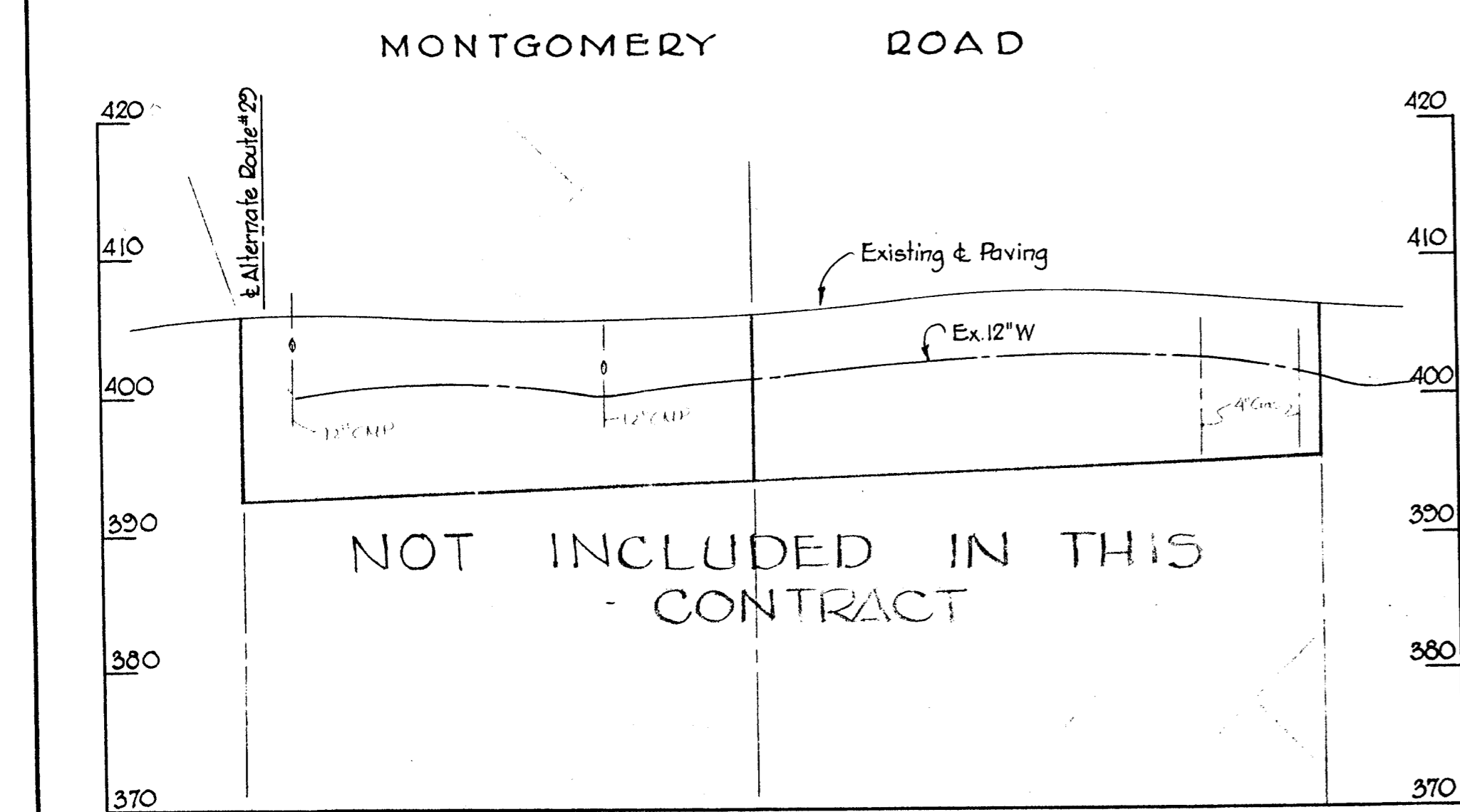
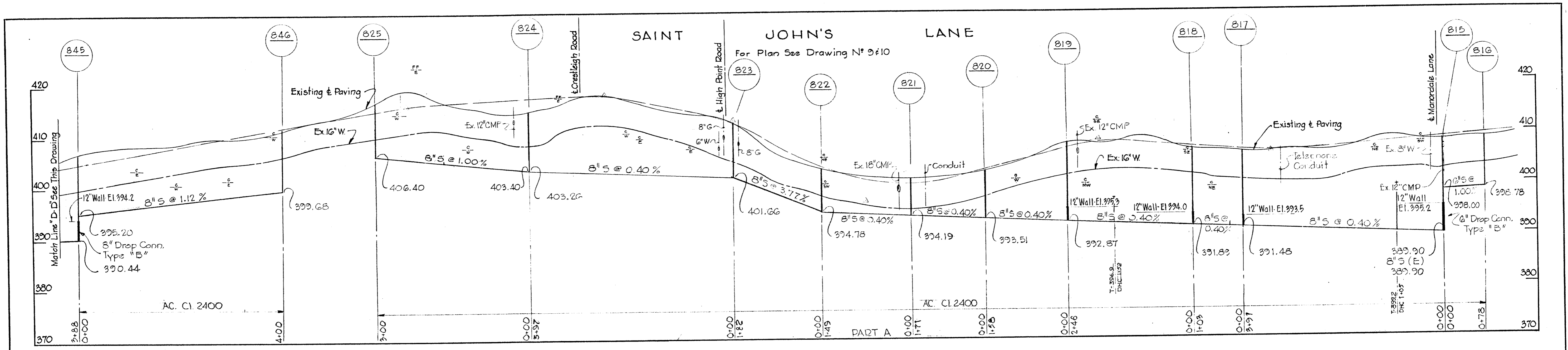
CONTRACT NO. 31-S

PROFILES OF SEWER MAINS

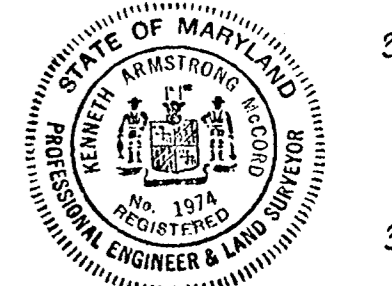
ELLCOTT CITY SUB-DISTRICT

DRAWING NO. 19 OF 24
SCALE H-1"=100' V-1"=10'

AS BUILT 28 FEB. 66



No.	Date	Revision
1	6-28-65	Manhole 835-A added.
2	3-19-68	6" Sewer added



Kenneth H. Meador

WHITMAN, REQUARDT & ASSOCIATES
ENGINEERS
1304 ST. PAUL ST.
BALTIMORE, MARYLAND

HOWARD COUNTY METROPOLITAN COMMISSION
Dec. 16, 1963
DATE
Carl W. Meyer
CHIEF ENGINEER

CONTRACT NO. 31-S

PROFILES OF SEWER MAINS

ELLICOTT CITY SUB-DISTRICT

Contract No. 31-S
DRAWING NO. 20 OF 24
SCALE H-1"=100' V-1"=10'

AS BUILT 28 FEB 66