

PROJECT NO. S-4-6040

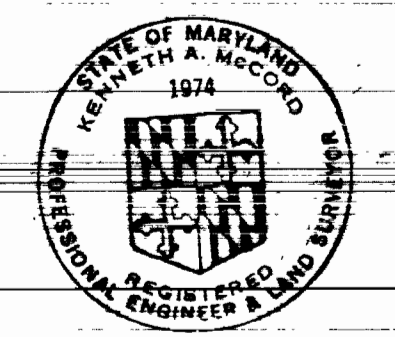
OUTFALL AND COLLECTOR SEWER MAINS

HOWARD COUNTY, MARYLAND

DEPARTMENT OF PUBLIC WORKS

QUANTITIES		
ITEM	ESTIMATED	AS-BUILT
ft Outfall	4,120 LF	4,150 LF
ft Collecting	8,540 LF	8,470 LF
Total	12,660 LF	12,620 LF

6" - A.C.P. Class 2400 (except as noted) and
 15" - A.C.P. Class 2400 - Cast Iron Pipe
 M.H.'s - Precast - Concrete Products of America



Kenneth A. McCord

AS-BUILT
 Stationed P.D. 6102
 Query 80-21904500

Deep Creek
 Project No. S-4-6040
 Contract No. 545-S

WHITMAN, REQUARDT & ASSOCIATES ENGINEERS 1304 ST. PAUL ST. BALTIMORE, MARYLAND	DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND DATE 7-18-75 <i>W.O. Fallick</i> CHIEF, BUREAU OF WATER AND SEWER	CONTRACT NO. 545-S PROJECT NO. S-4-6040	LOCATION MAP	ELECTION DISTRICT ELKBRIDGE NO. 1	DRAWING NO. 1 OF 9	SCALE 1" = 600'
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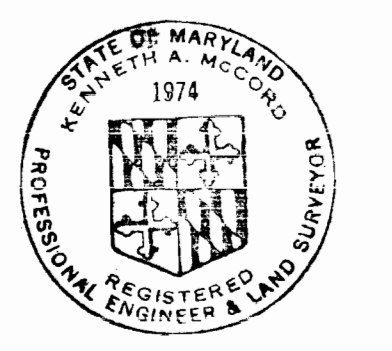
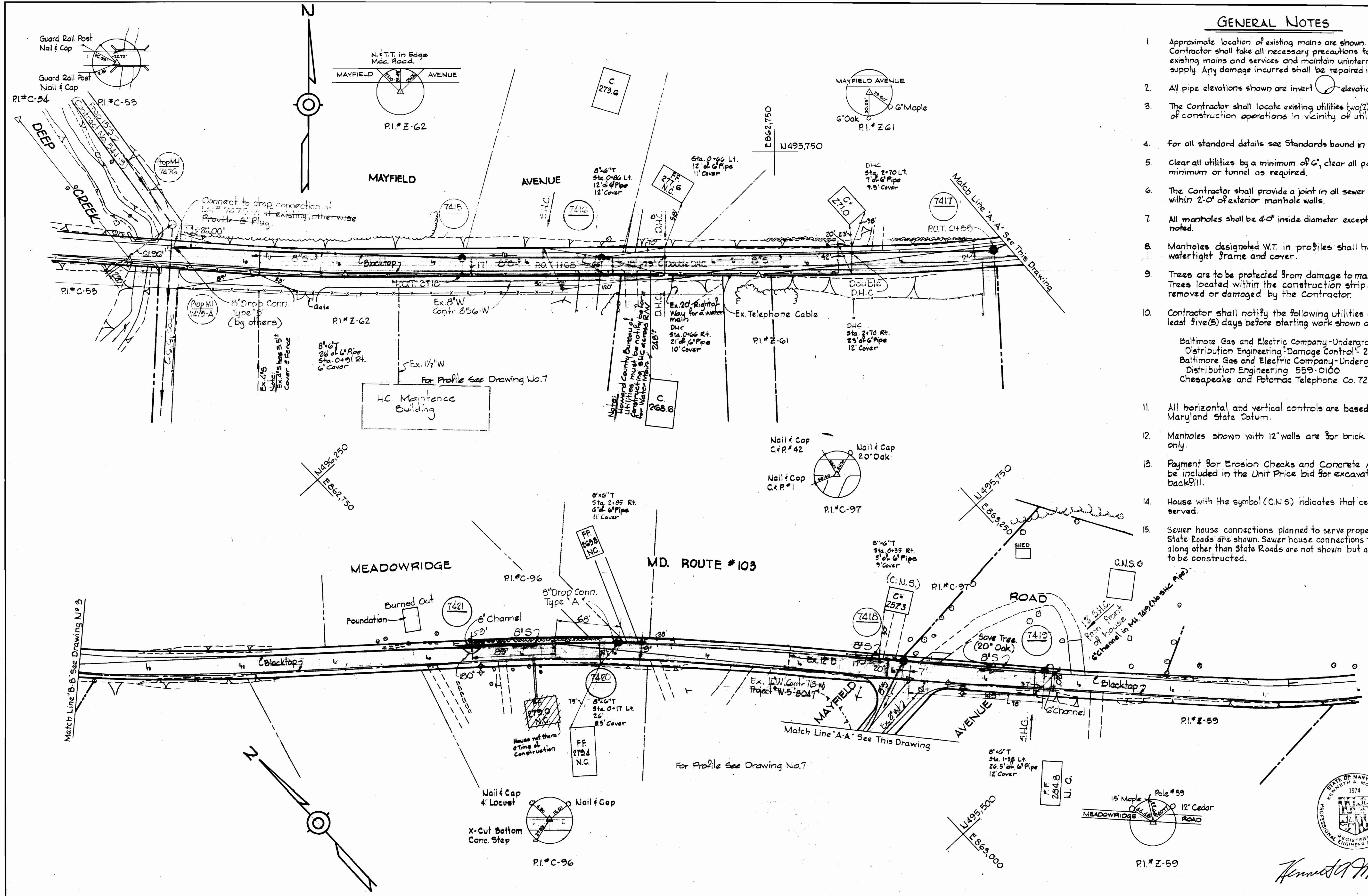
W.O. 66012

APRIL-18, 1976

AS-BUILT September 17, 1980

GENERAL NOTES

1. Approximate location of existing mains are shown. The Contractor shall take all necessary precautions to protect 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 two(2) weeks in advance of construction operations in vicinity of utilities.
4. For all standard details see Standards bound in Specifications.
5. Clear all utilities by a minimum of 6', clear all poles by 2'-0" minimum or tunnel as required.
6. The Contractor shall provide a joint in all sewer mains within 2'-0" of exterior manhole walls.
7. All manholes shall be 4'-0" inside diameter except where noted.
8. Manholes designated W.T. in profiles shall have watertight frame and cover.
9. Trees are to be protected from damage to maximum extent. Trees located within the construction strip are not to be removed or damaged by the Contractor.
10. Contractor shall notify the following utilities or agencies at least five(5) days before starting work shown on these plans:
 Baltimore Gas and Electric Company-Underground Electrical Distribution Engineering-Damage Control-234-5691
 Baltimore Gas and Electric Company-Underground Gas Distribution Engineering 559-0100
 Chesapeake and Potomac Telephone Co. 725-9976
11. All horizontal and vertical controls are based on Maryland State Datum.
12. Manholes shown with 12" walls are for brick Manholes only.
13. Payment for Erosion Checks and Concrete Anchors will be included in the Unit Price bid for excavation and backfill.
14. House with the symbol (C.N.S.) indicates that cellar cannot be served.
15. Sewer house connections planned to serve properties along State Roads are shown. Sewer house connections to properties along other than State Roads are not shown but are planned to be constructed.



Kenneth A. McCord

Deep Creek
Project No. S-4-6040
Contract No. 545-S

WHITMAN, REQUARDT & ASSOCIATES ENGINEERS 1304 ST. PAUL ST. BALTIMORE, MARYLAND	DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND 9-18-75 DATE <i>W.O. Falbert</i> CHIEF-BUREAU OF ENGINEERING	CONTRACT NO. 545-S PROJECT NO. S-4-6040	PLAN OF SEWER MAINS	ELECTION DISTRICT ELKRIDGE NO.1	DRAWING NO. 2 OF 9 SCALE 1"=50' 196-10 197-3
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W.O. 6601-2

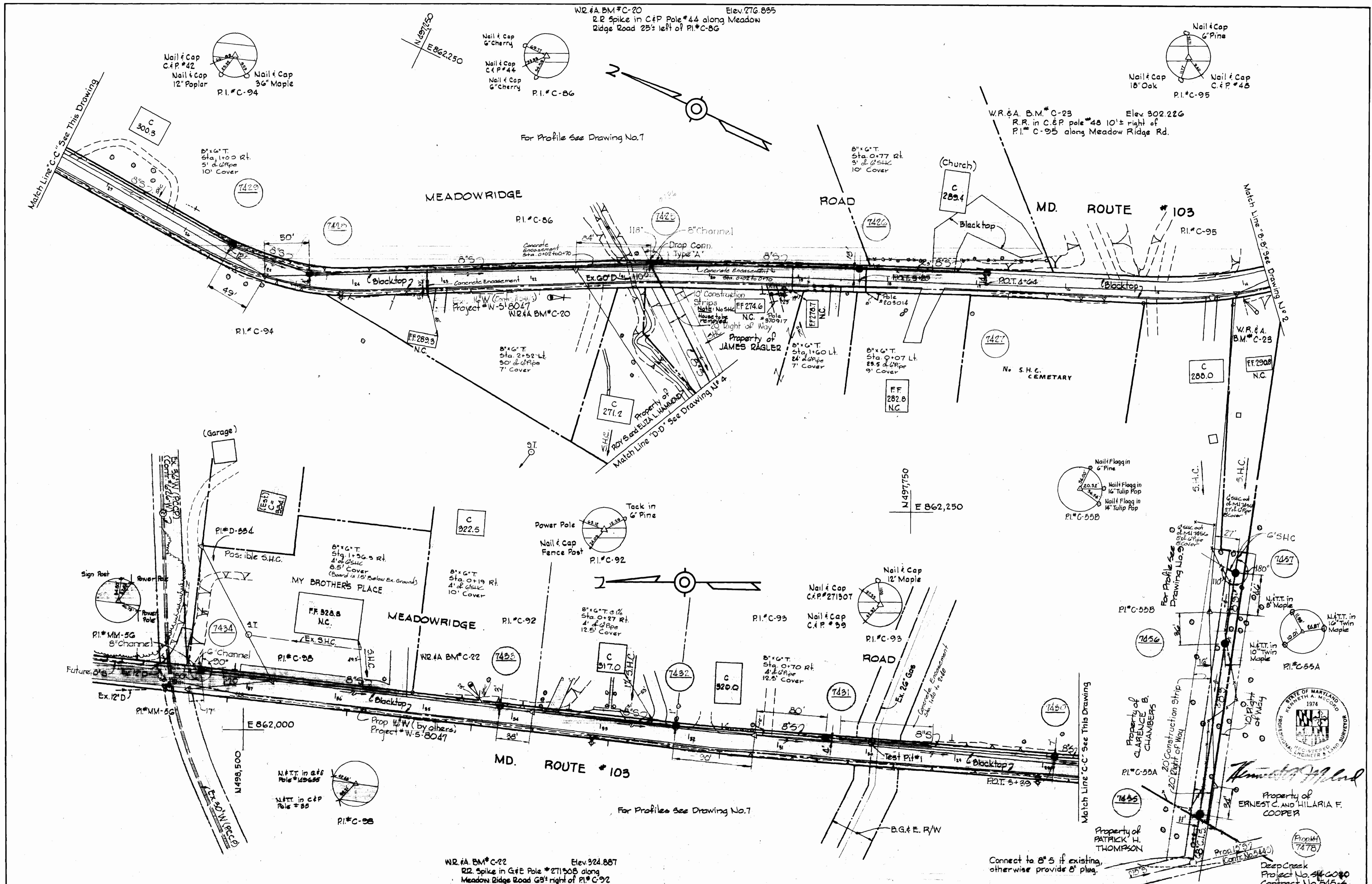
APR 18 1975
AS-BUILT September 17, 1980

WS 545-S/2

51

52

Suspension



WS 545-S/3

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

DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND
 9-18-75
 W. O. Falbert
 CHIEF BUREAU OF ENGINEERING

CONTRACT NO. 545-S
 PROJECT NO. S-4-6040

PLAN OF
 SEWER MAINS

ELECTION DISTRICT
 ELKRIDGE NO. 1

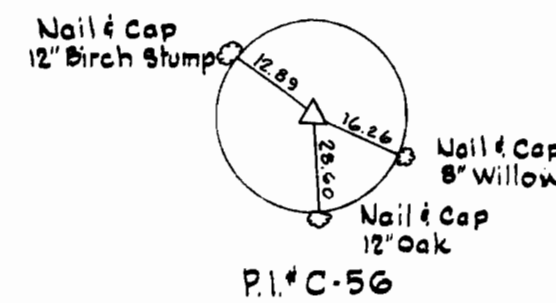
DRAWING NO. 3 OF 9
 SCALE 1"=50'
 APRIL 10, 1976
 FB # 5145, 5191

W.O. 6601-2

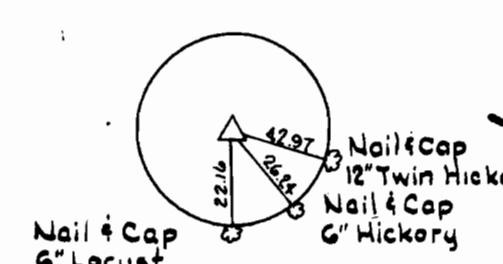
45-BUILT September 17, 1980

W.R.#A.BM* C-9 Elev. 249.930
 2" Spike in base 12" Walnut 30' left of
 sta. 2+00' between P.I.*C-56 and P.I.*C-57
 (Marked with Guard)

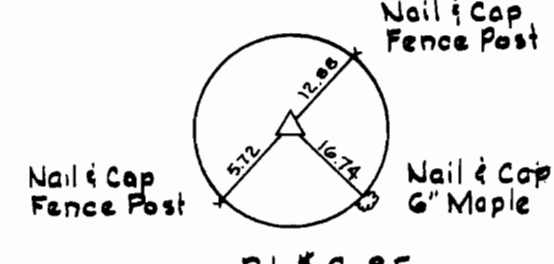
W.R.#A.BM* C-9



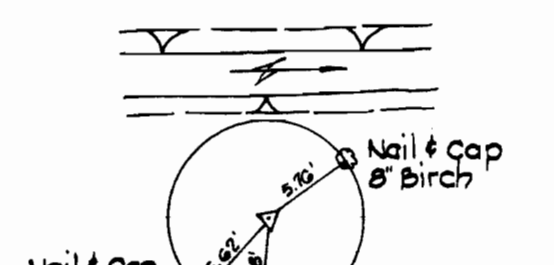
P.I.*C-56



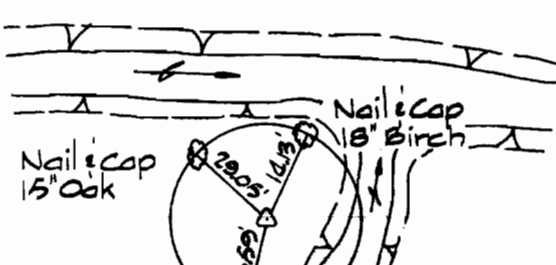
P.I.*C-84



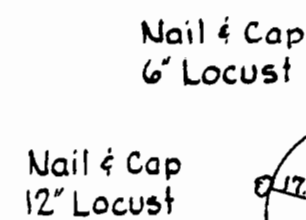
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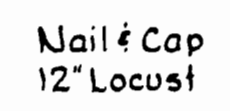
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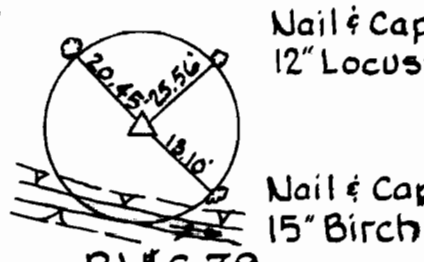
P.I.*C-62



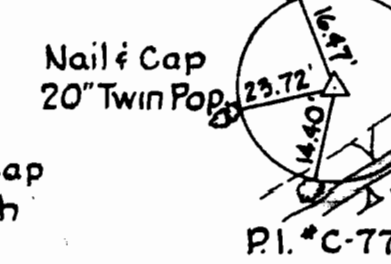
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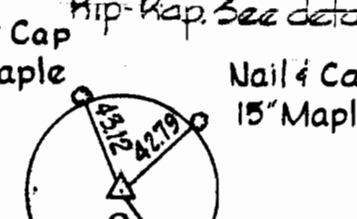
P.I.*C-79



P.I.*C-78



P.I.*C-77

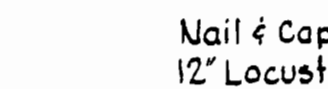


P.I.*C-76

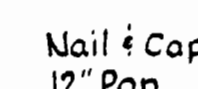
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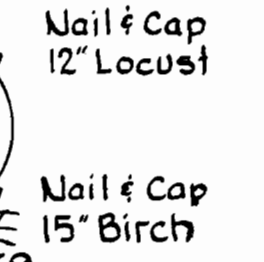
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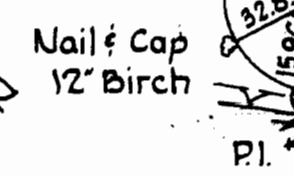
P.I.*C-80



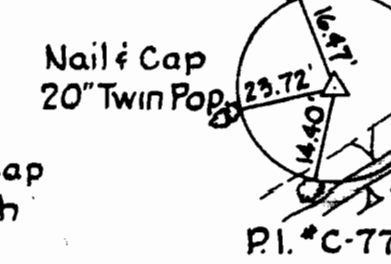
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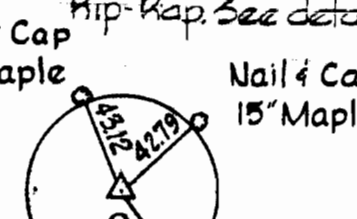
P.I.*C-78



P.I.*C-78



P.I.*C-77

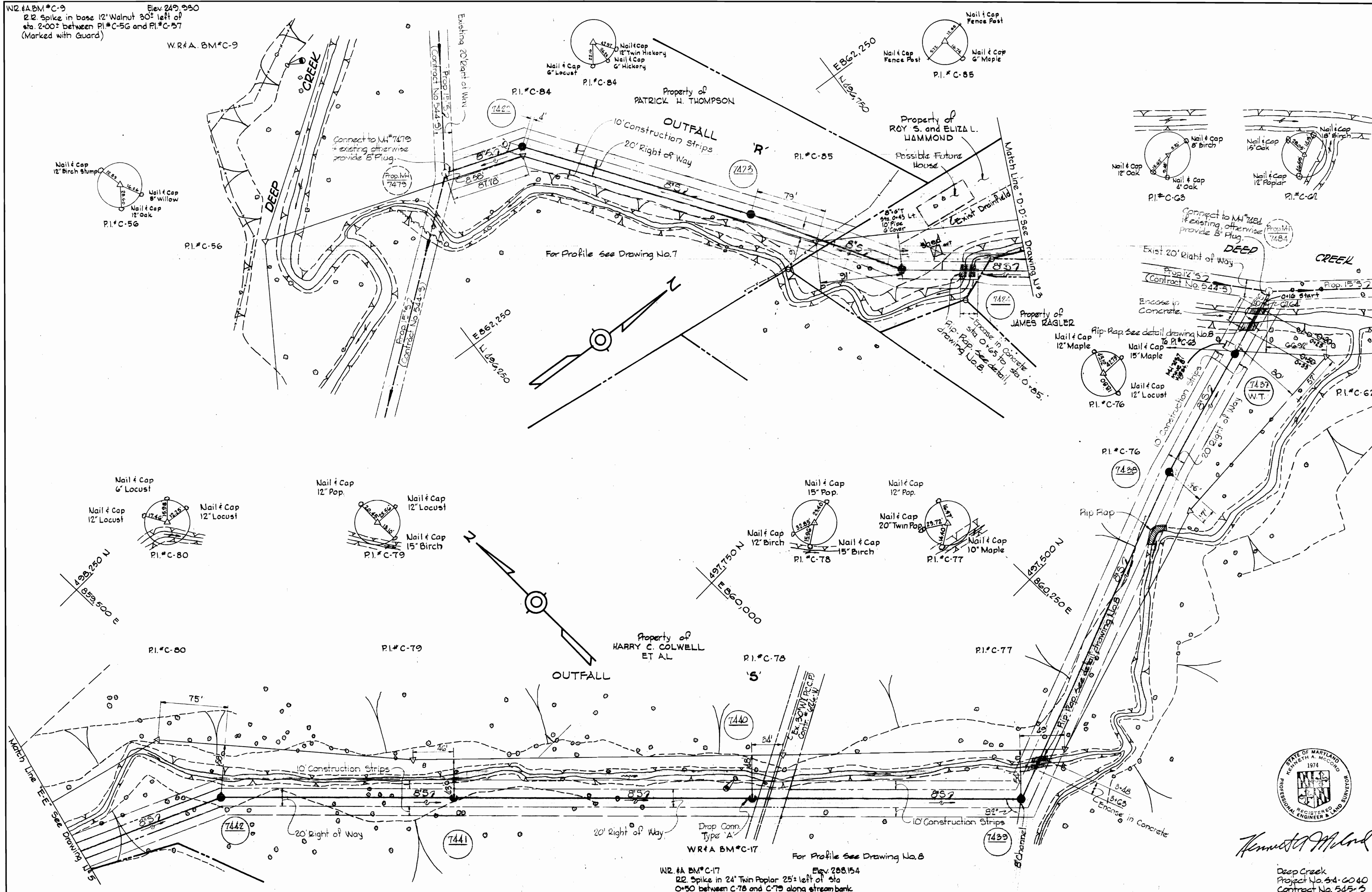


P.I.*C-76

P.I.*C-76



P.I.*C-62



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

DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND
 9-18-75
 W.O. Filbert
 CHIEF BUREAU OF ENGINEERING

CONTRACT NO. 545-S
 PROJECT NO. S-4-6040

PLAN OF
 SEWER MAINS

ELECTION DISTRICT
 ELKRIDGE NO.1

DRAWING NO. 4 OF 9
 SCALE 1"=50'
 497-8
 497-9
 498-9

W.O. 6601-2

APRIL 18, 1976

AS-BUILT September 17, 1980



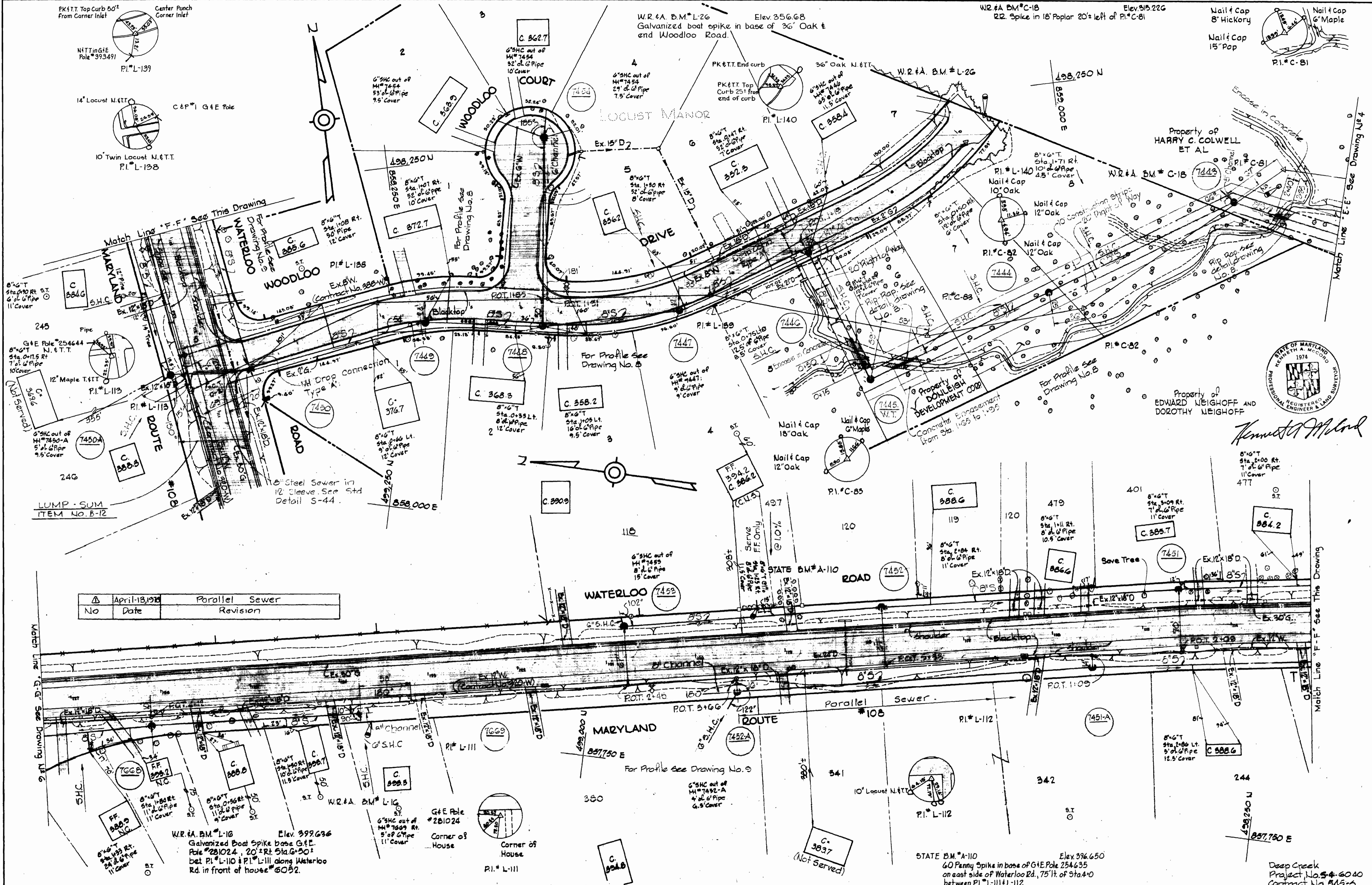
Kenneth A. McCord

Deep Creek
 Project No. S-4-6040
 Contract No. 545-S

WS 545-S/4

SUSPENDED

SUSPENDED



No	Date	Revision
1	April-13, 1978	Parallel Sewer



Kenneth A. McLeod

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

DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND
 9-10-75
W.O. G601
 CHIEF BUREAU OF ENGINEERING

CONTRACT NO. 545-S
 PROJECT NO. 3-4-6040

PLAN OF SEWER MAINS

ELECTION DISTRICT ELKRIEDE NO. 1

DRAWING NO. OF 9	SCALE
497-8	1"=50'
497-7	
498-7	
499-7	

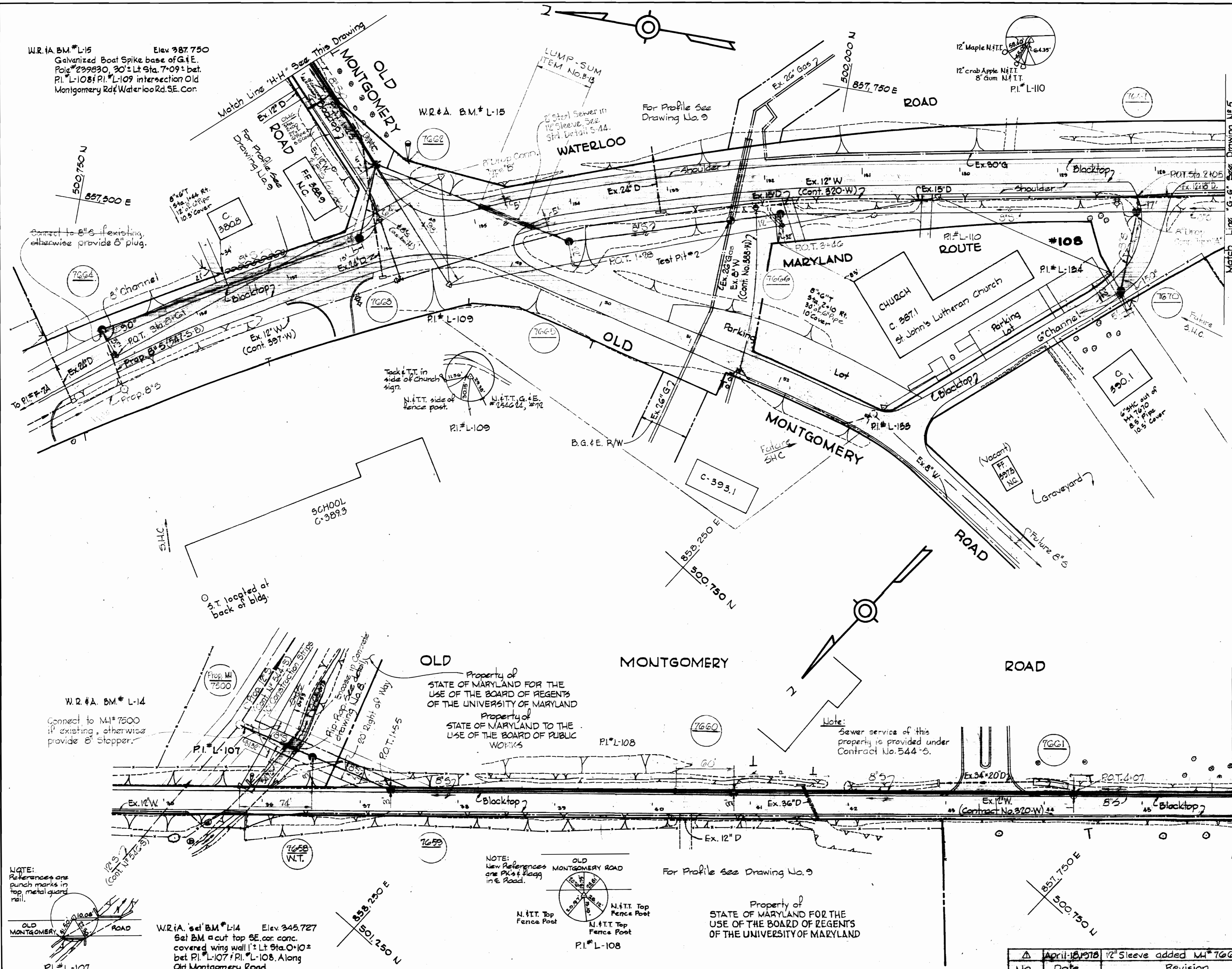
W. O. G601-2

APRIL 10, 1978

AS-BUILT

WS 545-S/5

W.R.#A. B.M.*L-15 Elev 987.750
Galvanized Boat Spike base of G.I.E.
Pole #239830, 30" Lt 9ft. 7"09" bet.
P.I.*L-108 & P.I.*L-109 intersection Old
Montgomery Rd & Waterloo Rd. S.E. Cor.



Connect to B's if existing, otherwise provide B' plug.

Track & T.T. in side of Church sign.
N.E.T.T. side of fence post.
N.E.T.T. G.I.E. #254622, #792

W.R.#A. B.M.*L-14
Connect to M4#7500 if existing, otherwise provide B' stopper.

Property of STATE OF MARYLAND FOR THE USE OF THE BOARD OF REGENTS OF THE UNIVERSITY OF MARYLAND
Property of STATE OF MARYLAND TO THE USE OF THE BOARD OF PUBLIC WORKS

Note:
Sewer service of this property is provided under Contract No. 544-5.

NOTE:
References are punch marks in top metal guard rail.

NOTE:
New References are P.I.'s & Plugs in E. Road.

W.R.#A. sel B.M.*L-14 Elev 345.727
Set B.M. at cut top SE cor. conc. covered wing wall 1' Lt 9ft. 0"10" bet P.I.*L-107 & P.I.*L-108. Along Old Montgomery Road

N.E.T.T. Top Fence Post
N.E.T.T. Top Fence Post
P.I.*L-108

Property of STATE OF MARYLAND FOR THE USE OF THE BOARD OF REGENTS OF THE UNIVERSITY OF MARYLAND

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

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND
9-18-75
W.O. Filbert
CHIEF BUREAU OF ENGINEERING

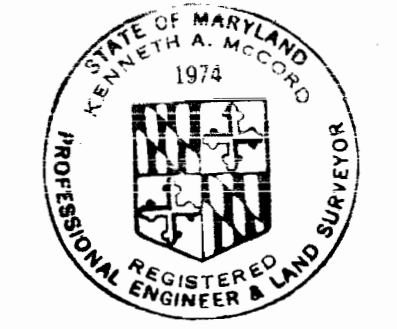
CONTRACT NO. 545-S
PROJECT NO. S-4-6049

PLAN OF SEWER MAINS

ELECTION DISTRICT ELKBRIDGE NO. 1

DRAWING NO. 6 OF 9
SCALE #50'
499.7
500.6
500.7

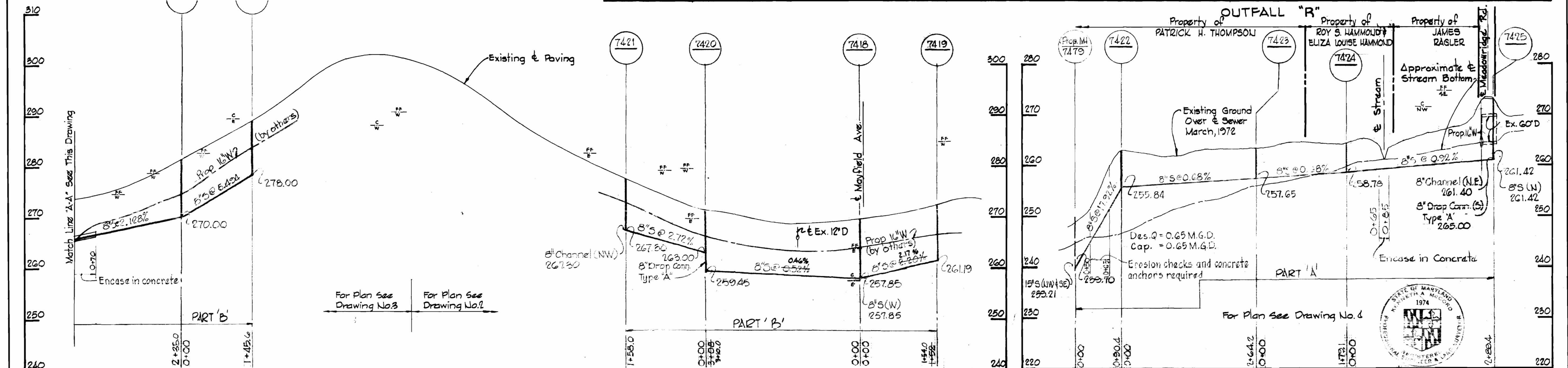
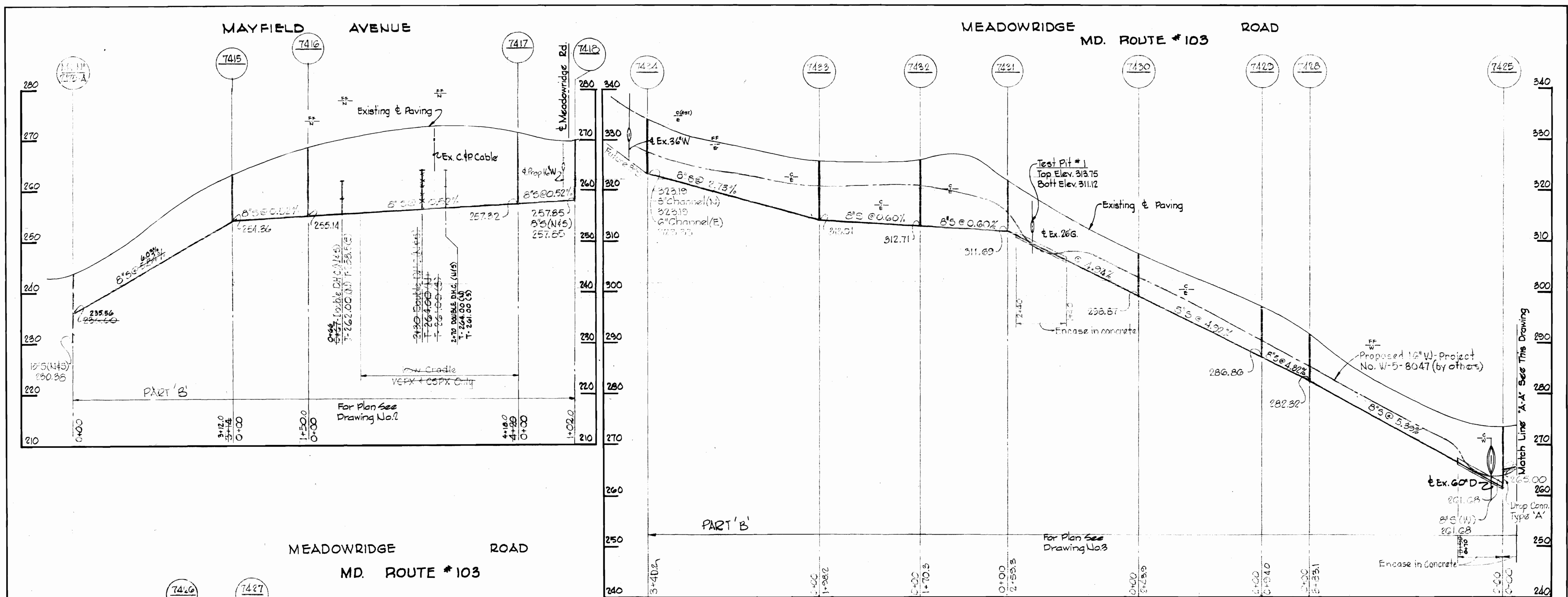
No.	Date	Revision
1	April 18, 1978	12" Sleeve added M4#7662 to 7665.



Kenneth A. McCord

Deep Creek
Project No. S-4-6049
Contract No. 545-5

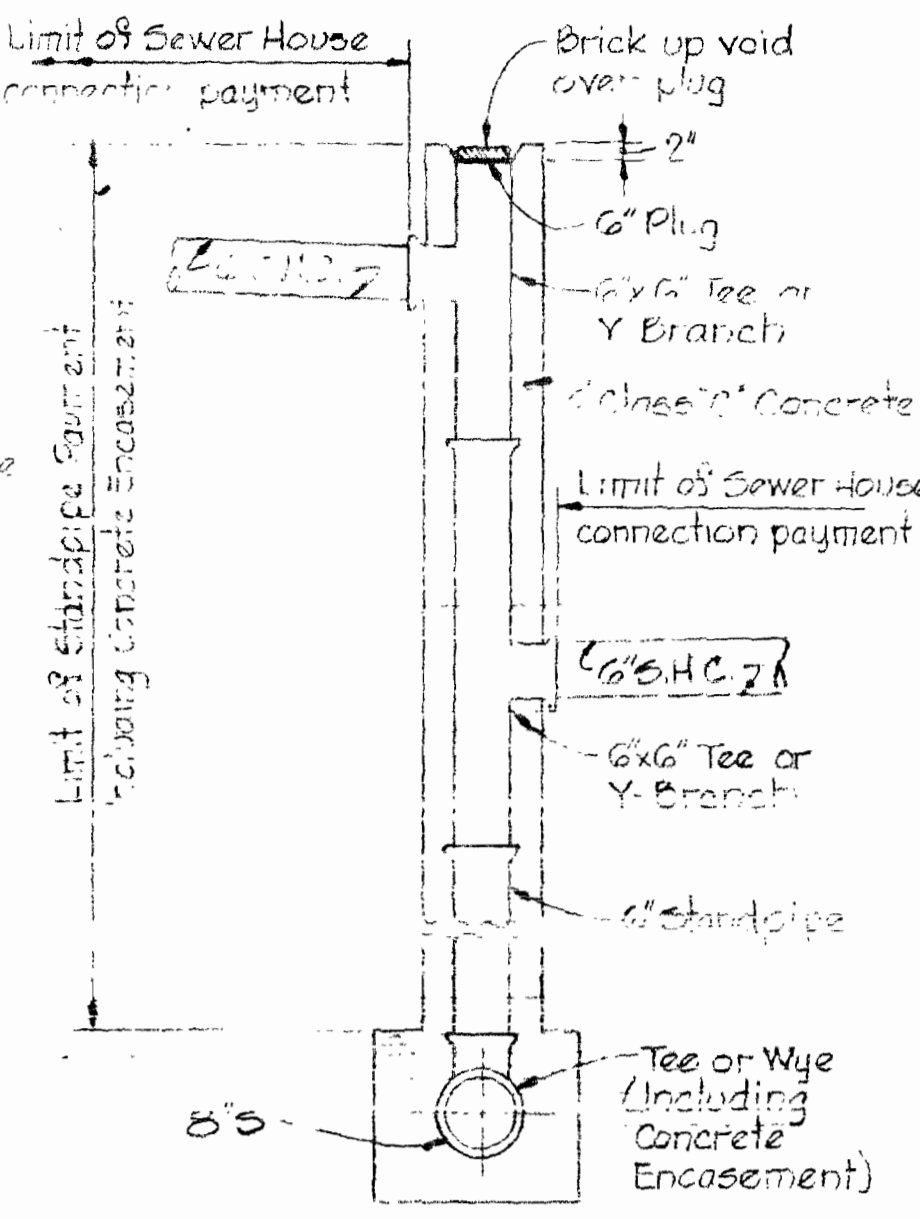
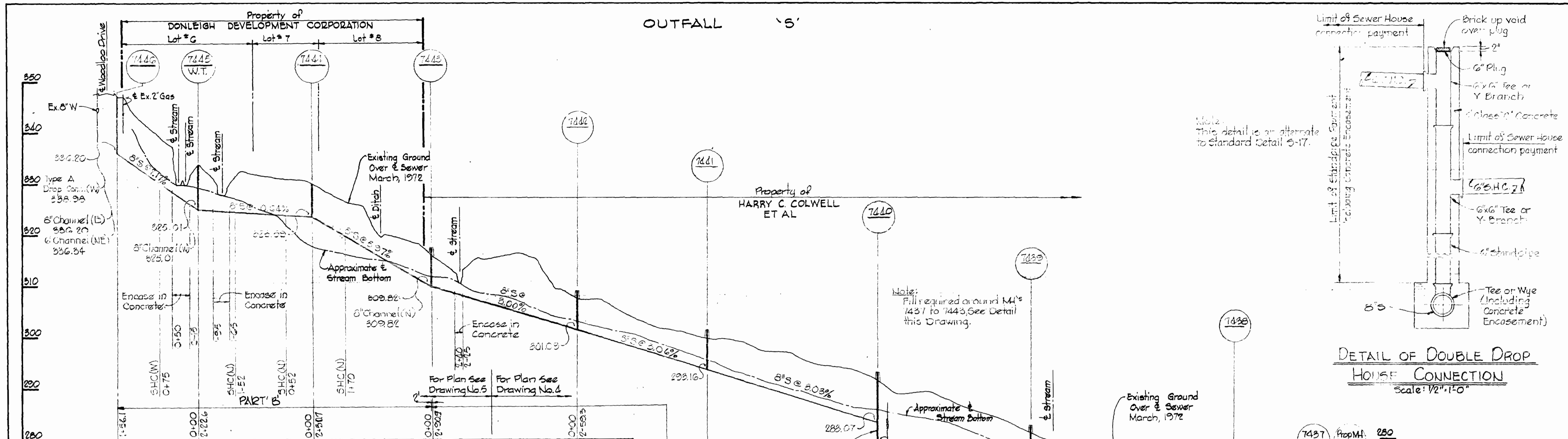
WS 545-5/6



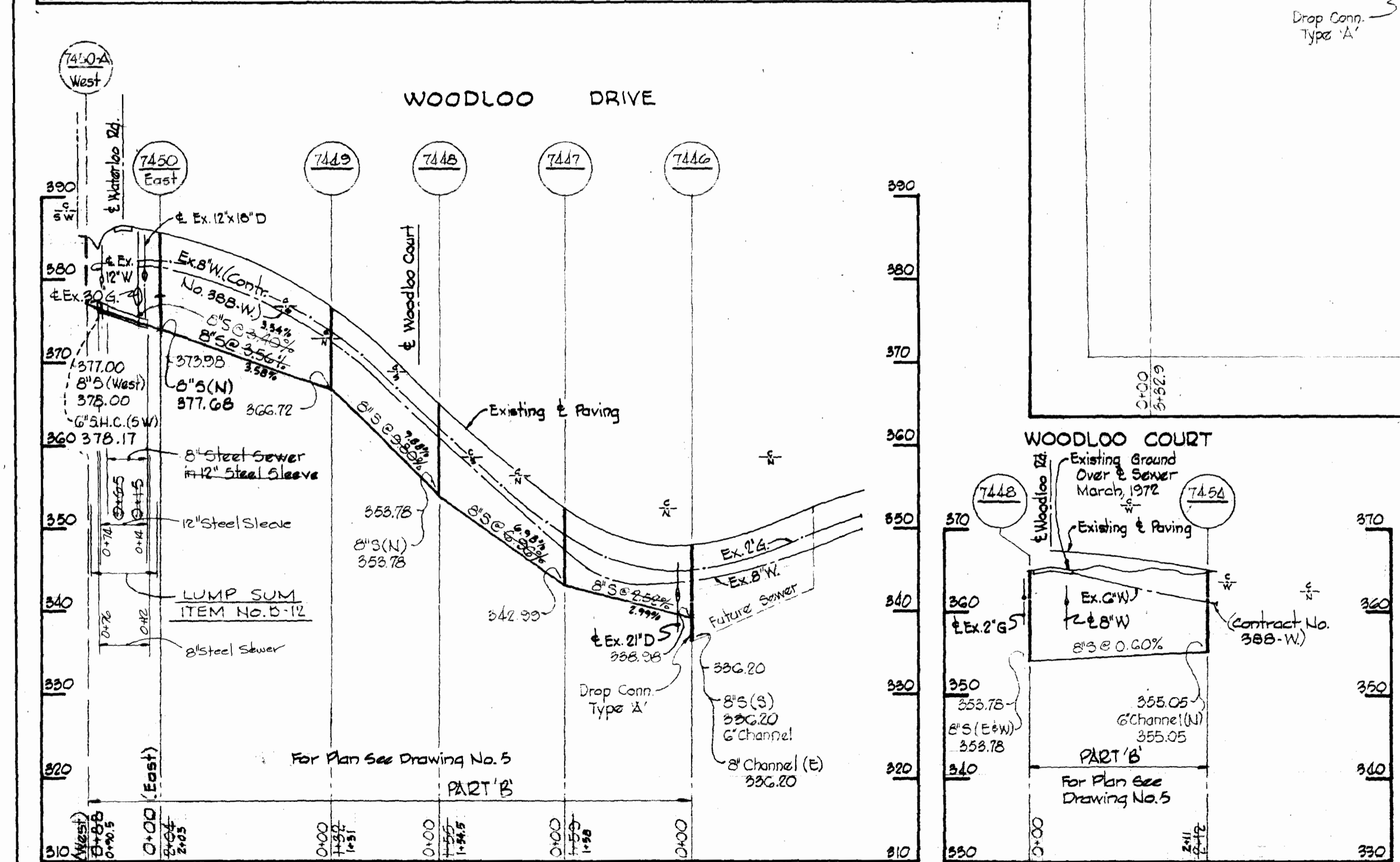
WHITMAN, REQUARDT & ASSOCIATES ENGINEERS 1304 ST. PAUL ST. BALTIMORE, MARYLAND	DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND 9-18-75 <i>W. O. Falbert</i> CHIEF-BUREAU OF ENGINEERING	CONTRACT NO. 545-S PROJECT NO. S-4-6040	PROFILES OF SEWER MAINS	ELECTION DISTRICT ELKRIDGE NO. 1	DRAWING NO. 7 OF 9 SCALE: H"=100' V"=10' APRIL 18, 1978
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All 8" S is ACP C.I. 2400
 Kenneth M. ...
 Deep Creek
 Project No. S-4-6040
 Contract No. S-4-5

WS 545-S/7



DETAIL OF DOUBLE DROP HOUSE CONNECTION
Scale: 1/2" = 1'-0"



Note: Should rock be encountered during sewer construction, no blasting shall be permitted within 15 feet each side of existing 30" Water Main or otherwise directed by the engineer. (No rock was encountered during water main construction at this crossing.)

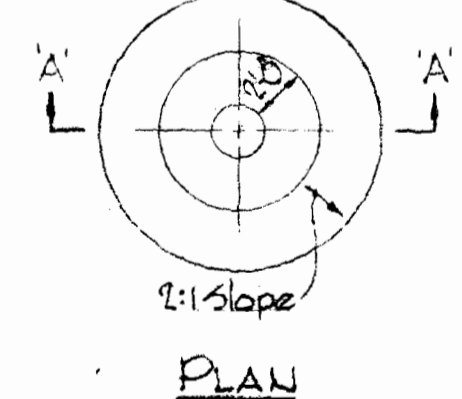
Note: Payment for fill at manholes will be included in the unit price bid for "Building Manholes."

Notes: Erosion Control Fabric shall be Poly Filter-X as manufactured by Cartridge Mills Inc., Erosion Control Division, 114 W. 60th Street Cincinnati, Ohio; Laurel Erosion Control Cloth as manufactured by Laurel Plastics, Inc., Madison, Maine, or approved equal.

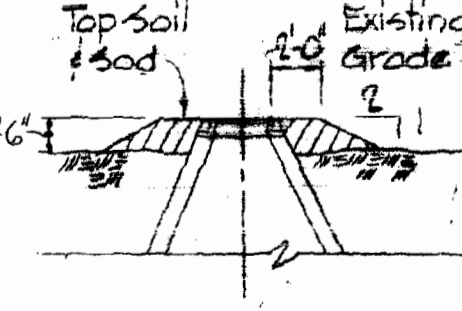
Rip Rap shall consist of dense rocks of random shapes and sizes resistant to the action of air and water and suitable for bank protection. All rocks shall weigh a minimum of 150 pounds.

Stream Bottom

Maintain 1' minimum clearance between Rip Rap and top of pipe.



PLAN



SECTION A-A

FILL AT MANHOLE
Scale: 3/8" = 1'-0"

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

PROFILES

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

All 8" is A.C.P. cl. 2400 except as noted.		
Δ	April-18, 1978	8" Sewer Added MH 7450 to 7450-A
No.	Date	Revision

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

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND
9-18-78
W. O. Gilbert
CHIEF-BUREAU OF ENGINEERING

CONTRACT NO. 545-S
PROJECT NO. S-4-6040

PROFILES AND DETAILS OF SEWER MAINS

ELECTION DISTRICT ELKRIDGE NO. 1

DRAWING NO. 8 OF 9
SCALE AS SHOWN

APRIL 18, 1978

'AS-BUILT' September 17, 1980

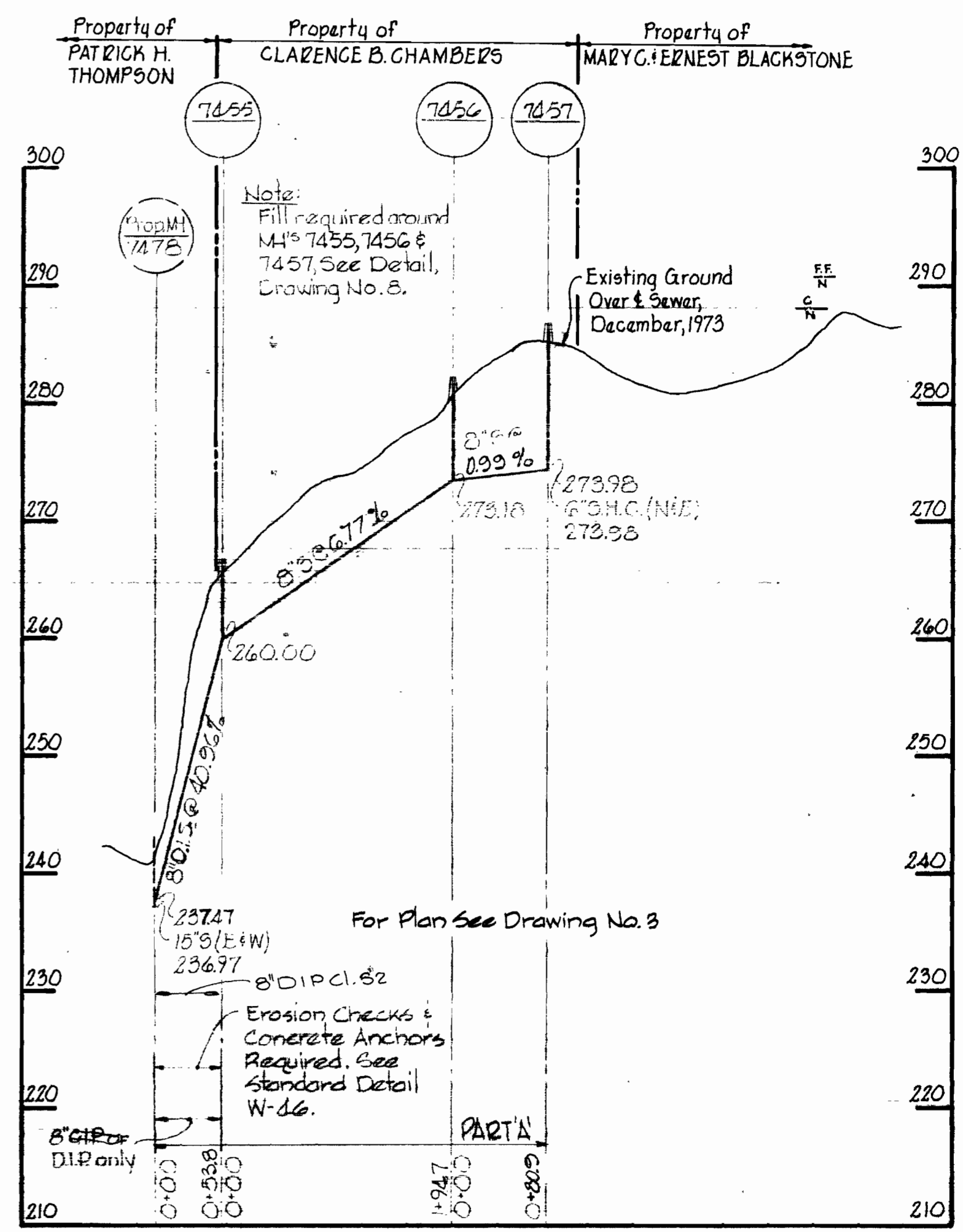
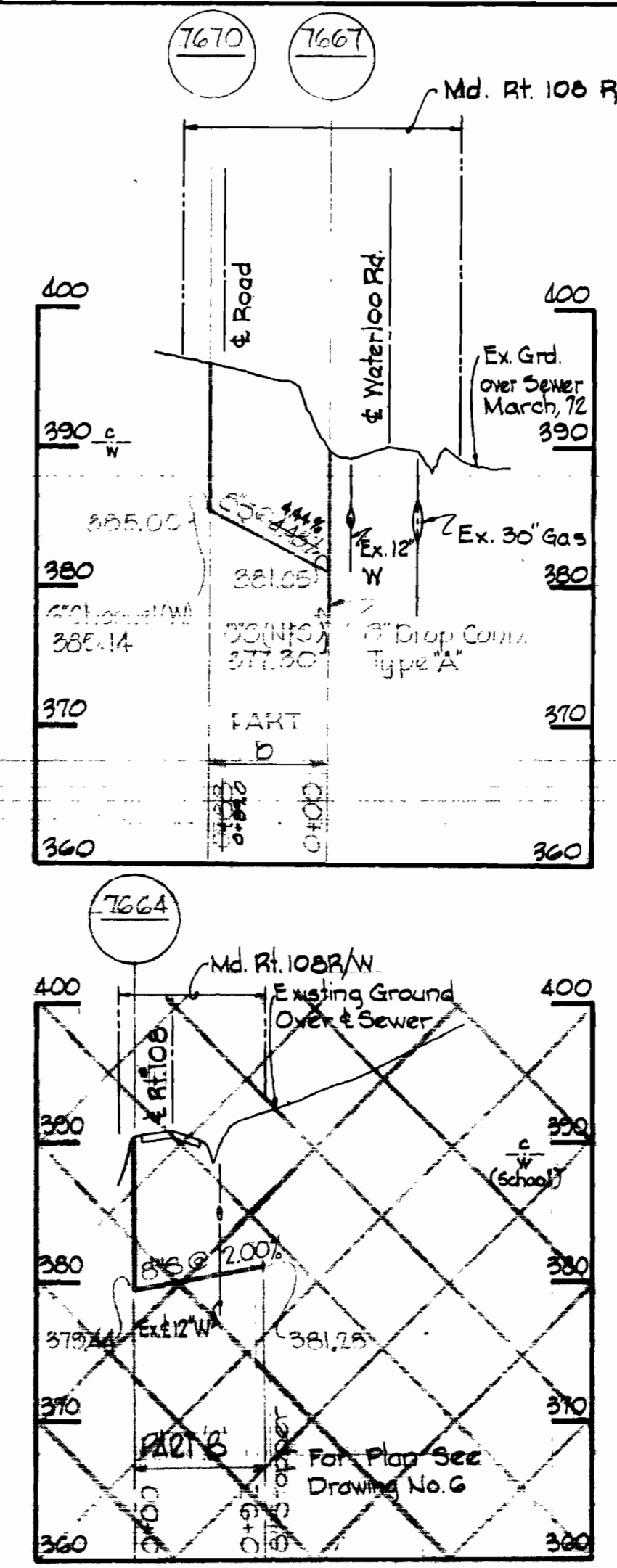
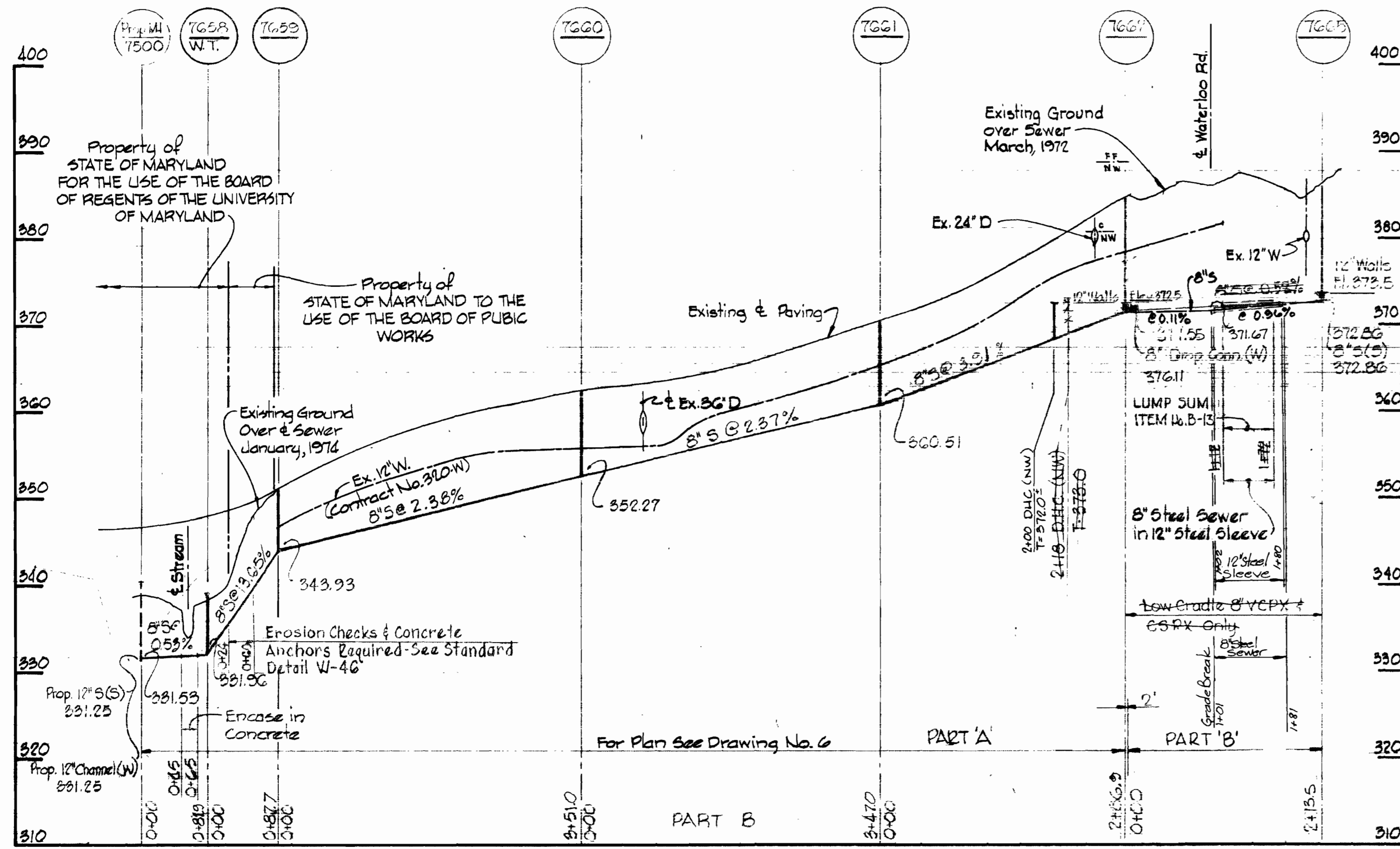
SUS

SUSPEND

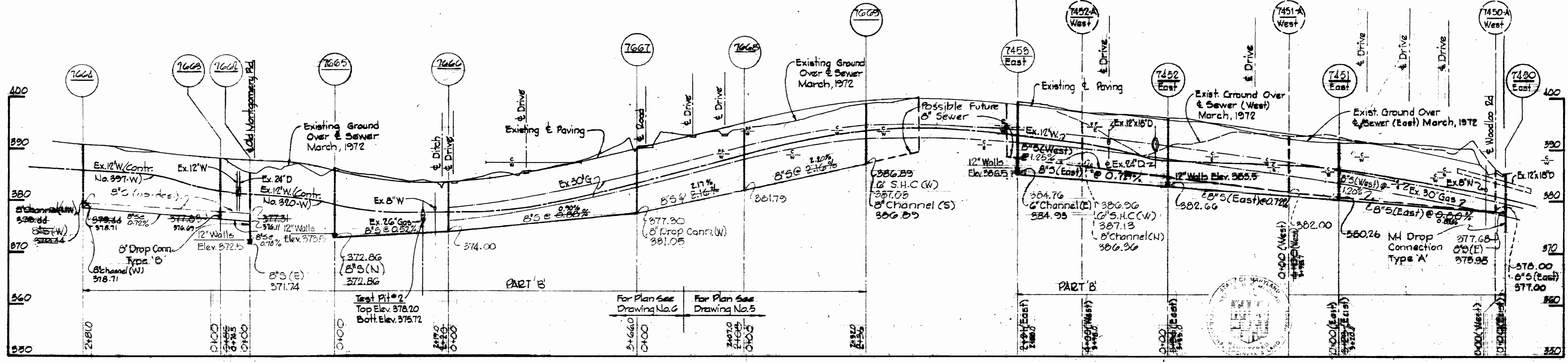
SUSPEND

DRAWING 44-510 18392

OLD MONTGOMERY ROAD



WATERLOO ROAD MD. ROUTE #108



No.	Date	Revision
1	April 18, 1978	Parallel Sewer

All 8\"/>

Hennrich

Deep Creek Project No. 545-S-6040 Contract No. 545-S

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

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND
9-18-78
W. O. Fullert
CHIEF, BUREAU OF ENGINEERING

CONTRACT NO. 545-S
PROJECT NO. S-4-6040

PROFILES OF
SEWER MAINS

ELECTION DISTRICT
ELKRIDGE NO. 1

DRAWING NO. 9
OF 9
SCALE 1\"/>

SUSPENSE

SUSPENSE

SUSPENSE