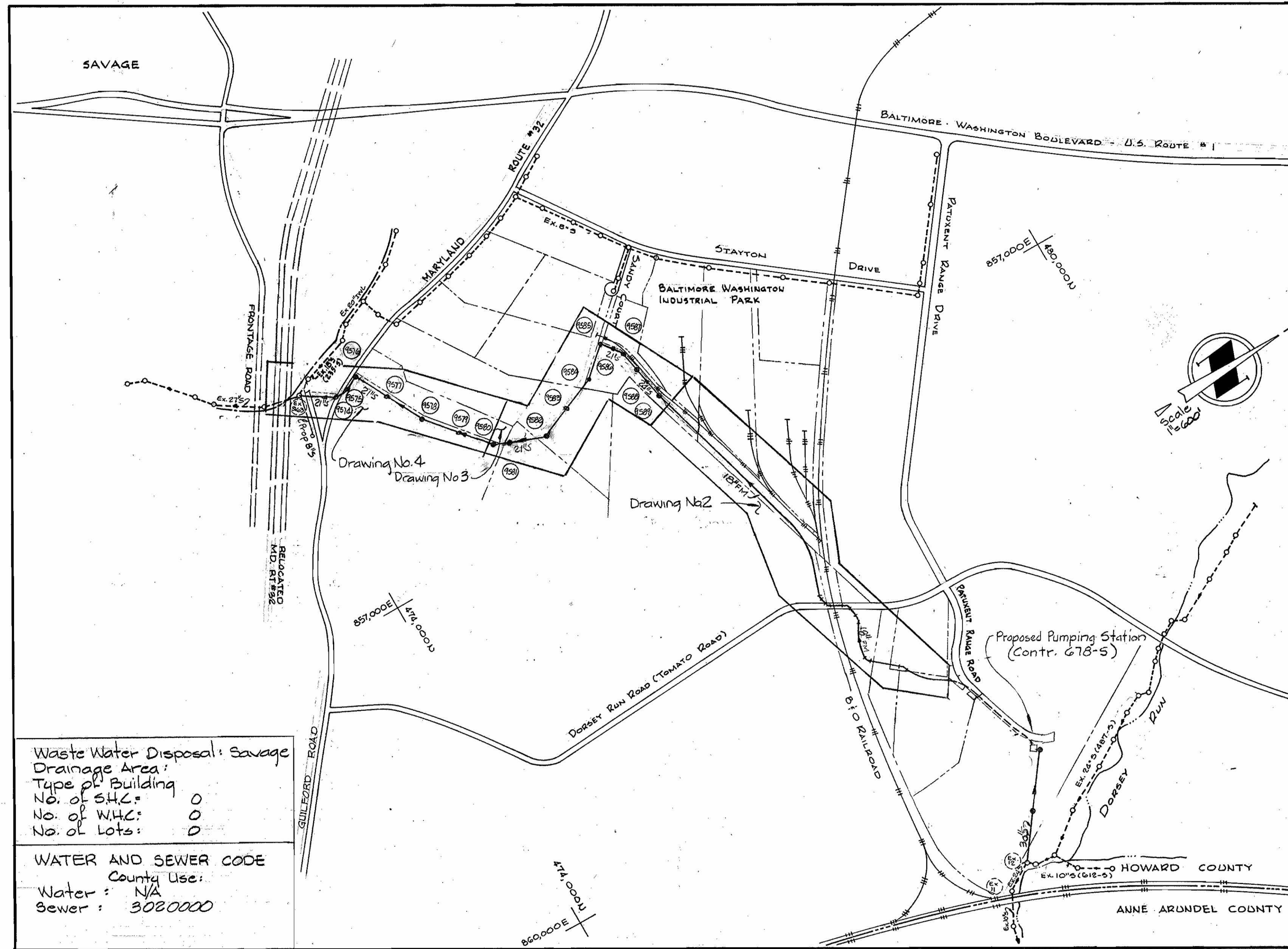


**GENERAL NOTES**

- 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 TO THE SATISFACTION OF THE ENGINEER, AT THE CONTRACTOR'S EXPENSE.
- ALL HORIZONTAL CONTROLS ARE BASED ON MARYLAND STATE COORDINATES.
- ALL VERTICAL CONTROLS ARE BASED ON U.S.G.S. DATUM.
- ALL PIPE ELEVATIONS SHOWN ARE INVERT ELEVATIONS.
- CLEAR ALL UTILITIES BY A MINIMUM OF 6". CLEAR ALL POLES BY 2'-0" MINIMUM OR TUNNEL AS REQUIRED. THE OWNER HAS CONTACTED THE UTILITIES COMPANIES AND HAS MADE ARRANGEMENTS FOR BRACING OF POLES AS SHOWN ON THE DRAWINGS. IN THE EVENT THE CONTRACTOR'S WORK REQUIRES THE BRACING OF ADDITIONAL POLES, ANY COST INCURRED BY THE OWNER FOR THE BRACING OF ADDITIONAL POLES OR DAMAGES SHALL BE DEDUCTED FROM MONEY OWED THE CONTRACTOR. THE CONTRACTOR SHALL COORDINATE WITH THE UTILITY COMPANIES TO SCHEDULE THE BRACING OF THE POLES.
- FOR DETAILS NOT SHOWN ON THE DRAWINGS, AND FOR MATERIALS AND CONSTRUCTION METHODS, USE HOWARD COUNTY DESIGN MANUAL, VOLUME IV, STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION. THE CONTRACTOR SHALL HAVE A COPY OF VOLUME IV ON THE JOB.
- CONTRACTOR SHALL NOTIFY THE FOLLOWING UTILITIES OR AGENCIES AT LEAST FIVE WORKING DAYS BEFORE STARTING WORK SHOWN ON THESE PLANS.
  - STATE HIGHWAY ADMINISTRATION - 531-5533
  - BALTIMORE GAS & ELECTRIC COMPANY - CONTRACTOR SERVICE 561-2585
  - UNDERGROUND DAMAGE CONTROL 234-5621
  - TROUBLE SHOOTING 298-9013
  - "MISS UTILITY" - 1 - 559-0100
  - CHESAPEAKE & POTOMAC (C&P) TELEPHONE COMPANY - 393-3648.
  - AMERICAN TELEPHONE AND TELEGRAPH - CABLE LOCATION DIVISION 1-865-2803
  - COLONIAL PIPELINE COMPANY - 795-1390
  - BUREAU OF UTILITIES, HOWARD COUNTY - 992-2366.
- TREES AND SHRUBS ARE TO BE PROTECTED FROM DAMAGE TO MAXIMUM EXTENT. TREES AND SHRUBS LOCATED WITHIN THE CONSTRUCTION STRIP ARE NOT TO BE REMOVED OR DAMAGED BY THE CONTRACTOR.
- CONTRACTOR SHALL REMOVE TREES, STUMPS AND ROOTS ALONG LINE OF EXCAVATION. PAYMENT FOR SUCH REMOVAL SHALL BE INCLUDED IN THE UNIT PRICE BID FOR CONSTRUCTION OF THE MAIN.
- WHERE TEST PITS HAVE BEEN MADE ON EXISTING UTILITIES, THEY ARE NOTED BY THE SYMBOL @ AT THE LOCATION OF THE TEST PIT. A NOTE OR NOTES CONTAINING THE RESULTS OF THE TEST PIT OR PITS IS INCLUDED ON THE DRAWINGS. EXISTING UTILITIES IN THE VICINITY OF THE PROPOSED WORK FOR WHICH TEST PITS HAVE NOT BEEN DUG SHALL BE LOCATED BY THE CONTRACTOR TWO WEEKS IN ADVANCE OF CONSTRUCTION OPERATIONS AT HIS OWN EXPENSE.
- ALL SEWER MAINS SHALL BE R.C.P. CLASS IV, V.C.P.X., A.C.P. CLASS 3300 OR HDBP UNLESS OTHERWISE NOTED.
- THE CONTRACTOR SHALL PROVIDE A JOINT IN ALL SEWER MAINS WITHIN 2'-0" OF EXTERIOR MANHOLE WALL.
- ALL MANHOLES SHALL BE 4'-0" INSIDE DIAMETER UNLESS OTHERWISE NOTED.
- MANHOLES SHOWN WITH 12" AND 16" WALLS ARE FOR BRICK MANHOLES ONLY.
- MANHOLES DESIGNATED W.T. IN PLAN AND PROFILE SHALL HAVE WATERTIGHT FRAME AND COVERS, STANDARD DETAIL ST. 45.6 5.52
- ALL MANHOLE FRAME AND COVERS SHALL BE SET 1.5' ABOVE EXISTING GRADE EXCEPT WHERE OTHERWISE SHOWN IN PROFILE. SEE DETAIL 65-41.
- BLOCK ALL FORCE MAIN FITTINGS WITH CONCRETE. SEE STANDARD WATER MAIN DETAILS.
- FORCE MAIN SHALL BE PRESTRESSED CONCRETE CYLINDER PIPE (PCCP) OR DUCTILE IRON PIPE (DIP) CLASS 51.



Waste Water Disposal: Savage  
 Drainage Area:  
 Type of Building:  
 No. of S.H.C.: 00  
 No. of W.H.C.: 00  
 No. of Lots: 00

WATER AND SEWER CODE  
 County Use:  
 Water: N/A  
 Sewer: 3020000

**ENGINEER'S CERTIFICATION**  
 I CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD COUNTY SOIL CONSERVATION DISTRICT.

*Kenneth A. McCord* 5-18-84  
 KENNETH A. MCCORD, P.E. 1974 DATE

**DEVELOPER'S CERTIFICATION**  
 I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN, AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF NATURAL RESOURCES APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT.

*John F. Neman* 7-2-84  
 BUREAU OF ENGINEERING DEPARTMENT OF PUBLIC WORKS DATE

SEDIMENT CONTROL MEASURES FOR THIS CONTRACT WILL BE IMPLEMENTED IN ACCORDANCE WITH ARTICLE 15 OF THE STANDARD SPECIFICATIONS.

REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENT

*James M. Adams* 6-27-84  
 SIGNATURE DATE  
 U.S. SOIL CONSERVATION SERVICE

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD COUNTY CONSERVATION DISTRICT.

APPROVED: *Robert W. Zohn* 6-27-84  
 HOWARD S.C.D. DATE

DEPARTMENT OF PUBLIC WORKS  
 HOWARD COUNTY, MARYLAND

*John F. Neman* 6-29-84  
 DIRECTOR OF PUBLIC WORKS - DATE

*Robert W. Zohn* 6-29-84  
 CHIEF - BUREAU OF UTILITIES - DATE

*Kevin J. Freis* 6-29-84  
 ACTING CHIEF - UTILITIES DIVISION - DATE

WHITMAN REQUARDT AND ASSOCIATES  
 ENGINEERS  
 2315 ST. PAUL ST.  
 BALTIMORE, MARYLAND

CONTRACT NO. 679-S  
 PROJECT NO. S-4-6071

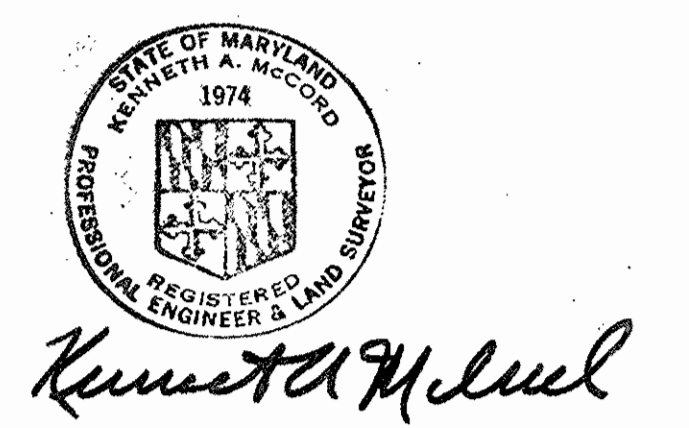
LOCATION MAP

ELECTION DISTRICT  
 GUILFORD NO. 6

DRAWING NO. 1 OF 7  
 SCALE 1" = 600'

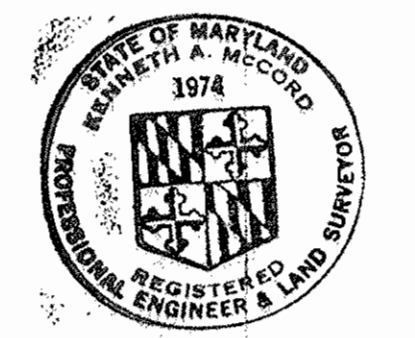
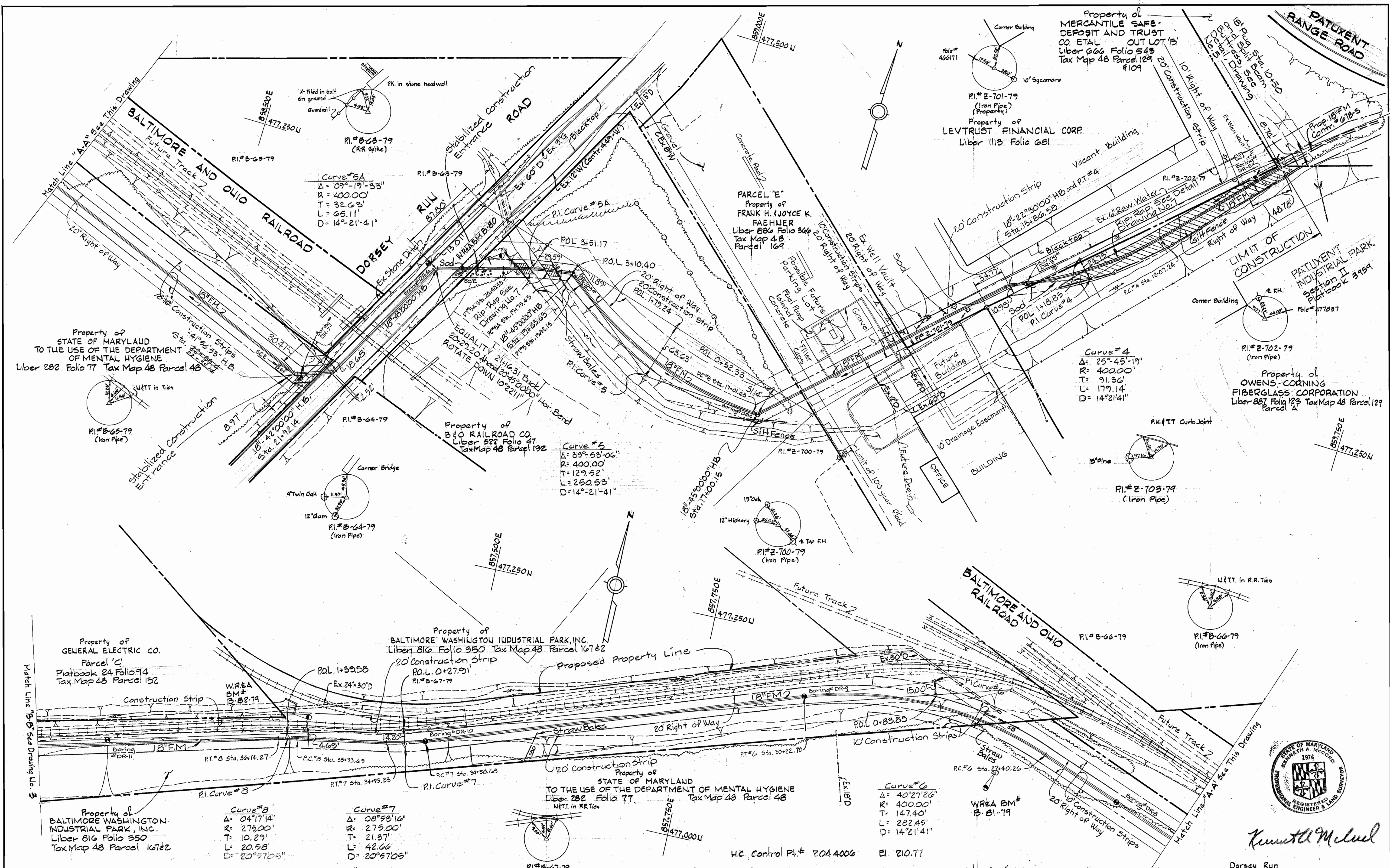
**CONTRACT NO. 679-S**  
**PROJECT NO. S-4-6071**  
**DORSEY RUN**  
**HOWARD COUNTY, MARYLAND**  
**DEPARTMENT OF PUBLIC WORKS**

QUANTITIES			
Item	Bid	As-Built	Material Supplier
18" F.M.	3160 LF	3163	LOCK JOINT PIPE
21" S	3900 LF	3838	CONC. PIPE PROD. CO.
24" S	370 LF	370	" " " "
Manholes	16 Ea.	15	ATLANTIC PRECAST CONC. CO.



*Kenneth A. McCord*  
 Dorsey Run  
 Force Main and Outfall  
 Contract 679-S  
 Project S-4-6071

WS 679 S/1



*Kenneth McNeil*

DEPARTMENT OF PUBLIC WORKS  
HOWARD COUNTY, MARYLAND

Director of Public Works: *[Signature]* DATE: 6-29-84  
 Chief - Bureau of Engineering: *[Signature]* DATE: 6-29-84  
 Chief - Bureau of Utilities: *[Signature]* DATE: 6-29-84

WHITMAN REQUARDT AND ASSOCIATES  
ENGINEERS  
2315 ST. PAUL ST.  
BALTIMORE, MARYLAND

CONTRACT NO. 679-S  
PROJECT NO. S-4-607I

PLAN OF  
FORCE MAIN

ELECTION DISTRICT  
GUILFORD NO.6

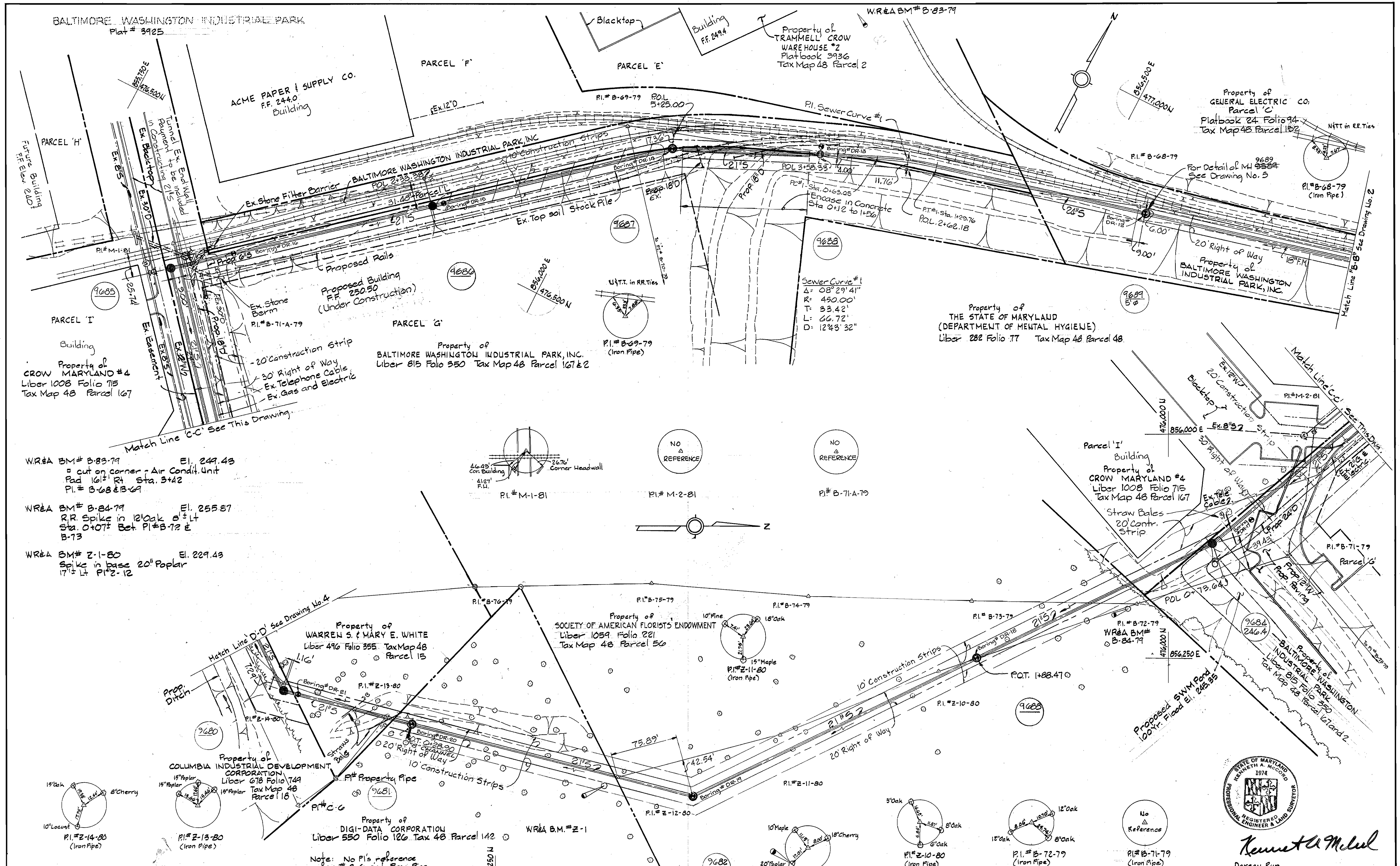
DRAWING NO. 2 OF 7  
SCALE 1" = 50'

W.O. 6840-2

F.B. 6348

June 21, 1984

WS 679 S/2



W.R.E.A. BM# B-83-79 El. 249.43  
 cut on corner - Air Cond. Unit  
 Pad 161' Rt Sta. 3+42  
 P.I.# B-68 & B-69

W.R.E.A. BM# B-84-79 El. 255.87  
 R.R. Spike in 12" Oak @ 1/2 Lt  
 Sta. 0+07 1/2 Bet P.I.# B-72 &  
 B-73

W.R.E.A. BM# Z-1-80 El. 229.43  
 Spike in base 20" Poplar  
 17 1/2 Lt P.I.# Z-12

DEPARTMENT OF PUBLIC WORKS  
 HOWARD COUNTY, MARYLAND

*John F. Nummy* 6-21-84  
 DIRECTOR OF PUBLIC WORKS - DATE

*Robert M. Brinner* 6-29-84  
 CHIEF - BUREAU OF UTILITIES - DATE

*Michael R. P. O'Neil* 6-29-84  
 CHIEF - BUREAU OF ENGINEERING - DATE

*James J. Davis* 6-29-84  
 Acting CHIEF - UTILITIES DIVISION - DATE

WHITMAN REQUARDT AND ASSOCIATES  
 ENGINEERS  
 2315 ST. PAUL ST.  
 BALTIMORE, MARYLAND

CONTRACT NO. 679-S  
 PROJECT NO. S-4-6071

PLAN OF  
 FORCE MAIN & SEWER MAIN

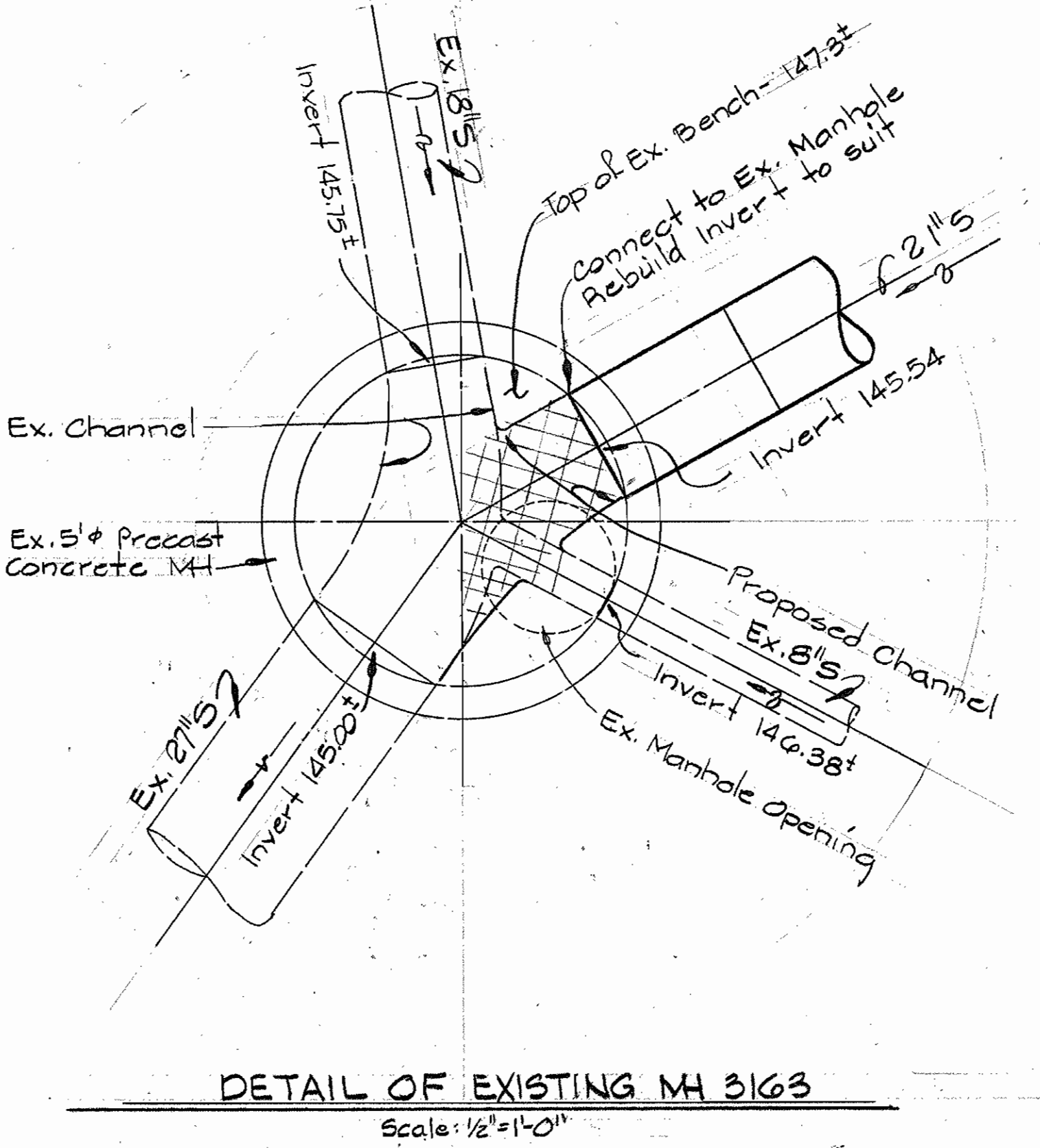
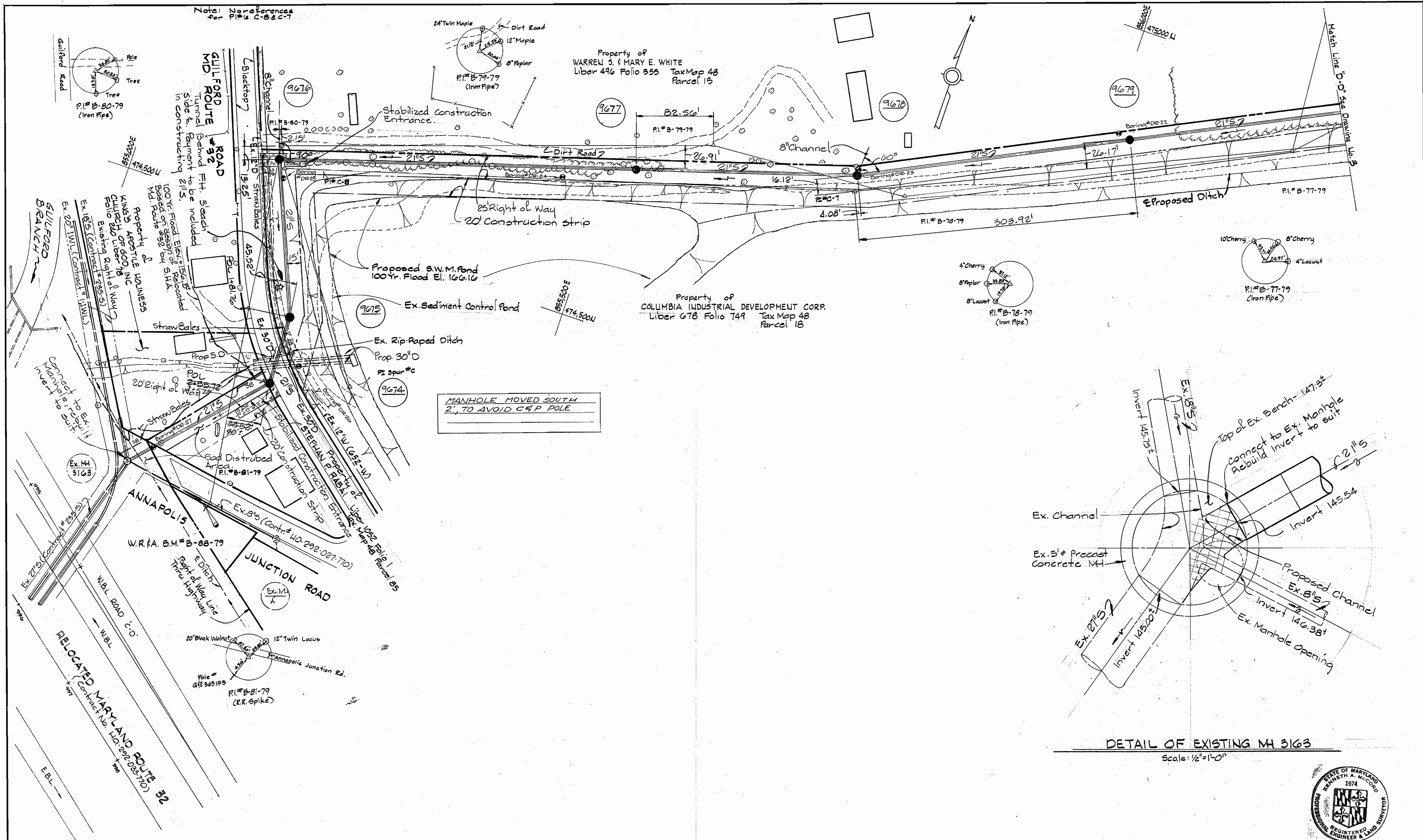
ELECTION DISTRICT  
 GUILFORD NO. 6

DRAWING NO. 3 OF 7  
 SCALE 1" = 50'



*Kenneth A. Melul*  
 Dorsey Run  
 Force Main and Outfall  
 Contract No. 679-S  
 Project No. S-4-6071

WS 679 S/3



W.R.&A BM# B-88-79 El. 161.12  
 Spike in Power Pole# GEE#  
 363153/C&P# 19 Near PI# B-81

**DEPARTMENT OF PUBLIC WORKS**  
 HOWARD COUNTY, MARYLAND

*[Signature]* 6-29-84  
 DIRECTOR OF PUBLIC WORKS - DATE

*[Signature]* 6-29-84  
 CHIEF - BUREAU OF UTILITIES - DATE

**WHITMAN REQUARDT AND ASSOCIATES**  
 ENGINEERS  
 2315 ST. PAUL ST.  
 BALTIMORE, MARYLAND

CONTRACT NO. 679-S  
 PROJECT NO. S-4-6071

PLAN & DETAIL OF  
 SEWER MAIN

ELECTION DISTRICT-  
 GUILFORD NO. 6

<b>DRAWING</b> NO. <u>4</u> OF <u>7</u>	<b>SCALE</b> AS SHOWN	48-474-857 48-474-855.5
---	-----------------------------	----------------------------

W. O. 6840-2

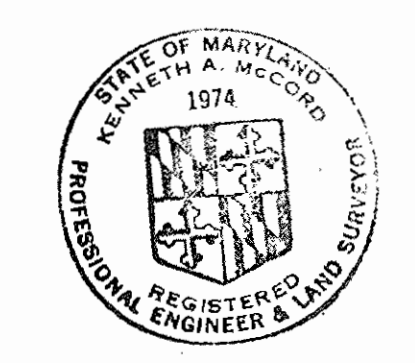
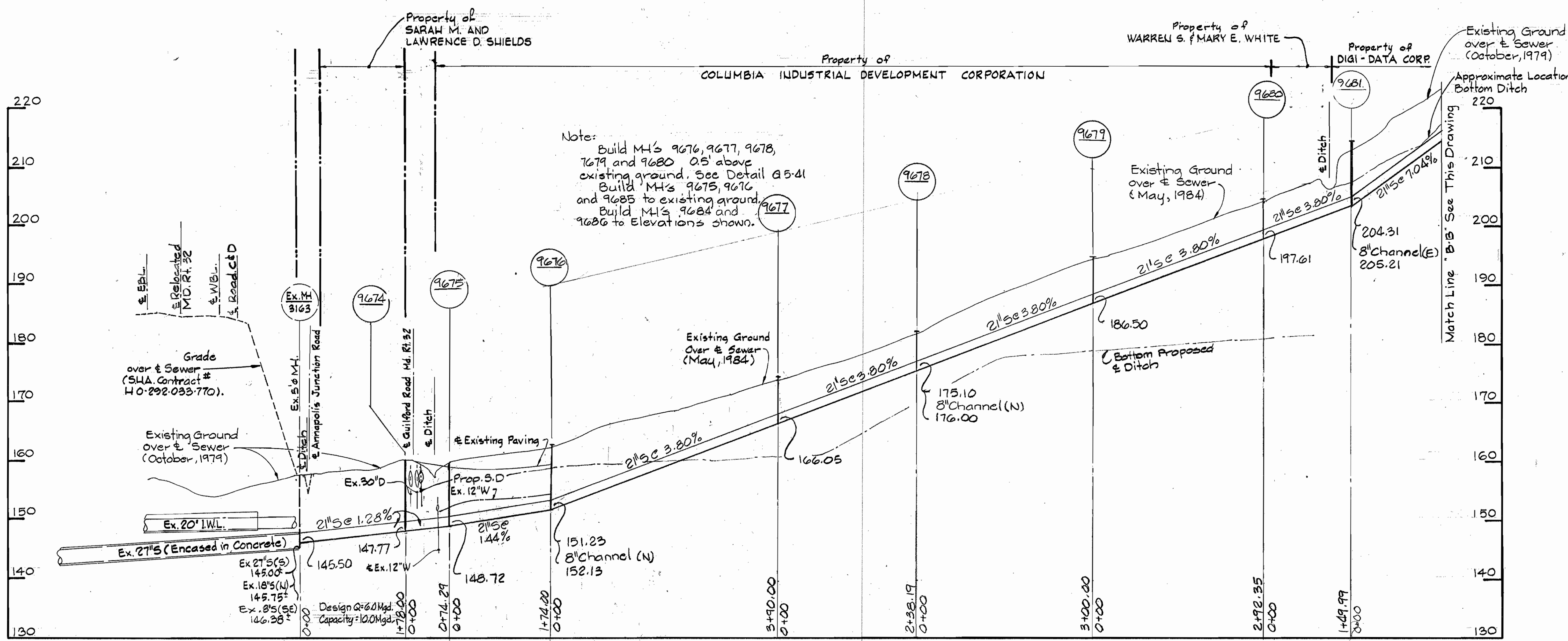
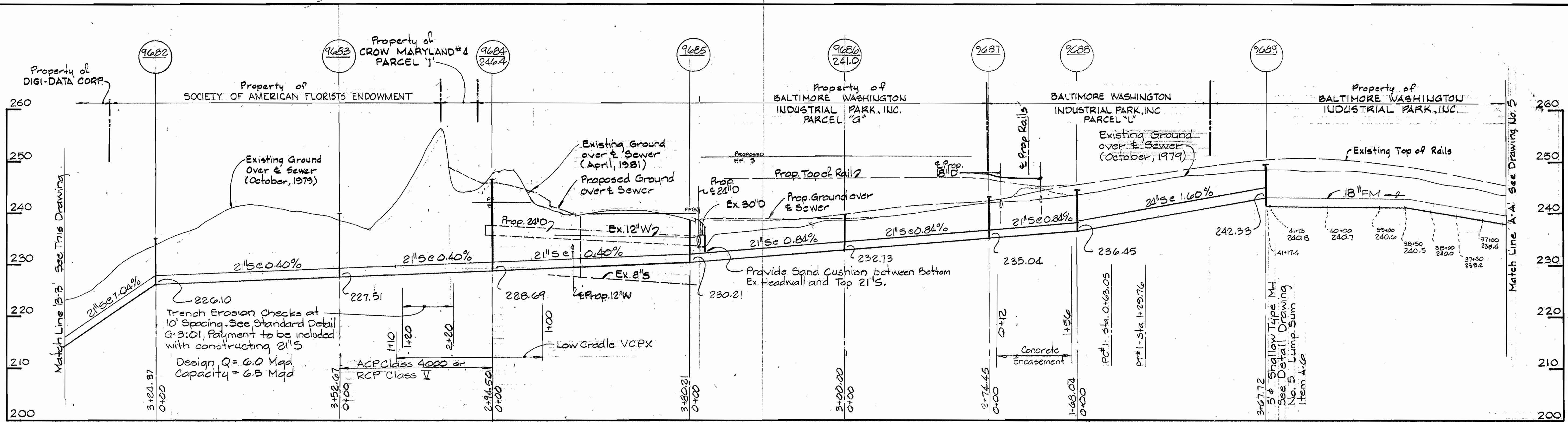
FB#6374

June 21, 1984

ASBUILT 8/8/85 JOHN E. HARMS JR. & ASSOC.

WS 679 S/4





*Kenneth A. McDevitt*

Dorsey Run  
Force Main and Outfall  
Contract No. G79-5  
Project No. S-4-6071

DEPARTMENT OF PUBLIC WORKS  
HOWARD COUNTY, MARYLAND  
Director of Public Works: *Robert F. Nunn* (6-29-84)  
Chief-Bureau of Engineering: *John J. ...* (6-29-84)  
Chief-Bureau of Utilities: *Robert ...* (6-29-84)  
Acting Chief-Utilities Division: *...* (6-29-84)

WHITMAN REQUARDT AND ASSOCIATES  
ENGINEERS  
2315 ST. PAUL ST.  
BALTIMORE, MARYLAND

CONTRACT NO. 679-S  
PROJECT NO. S-4-6071

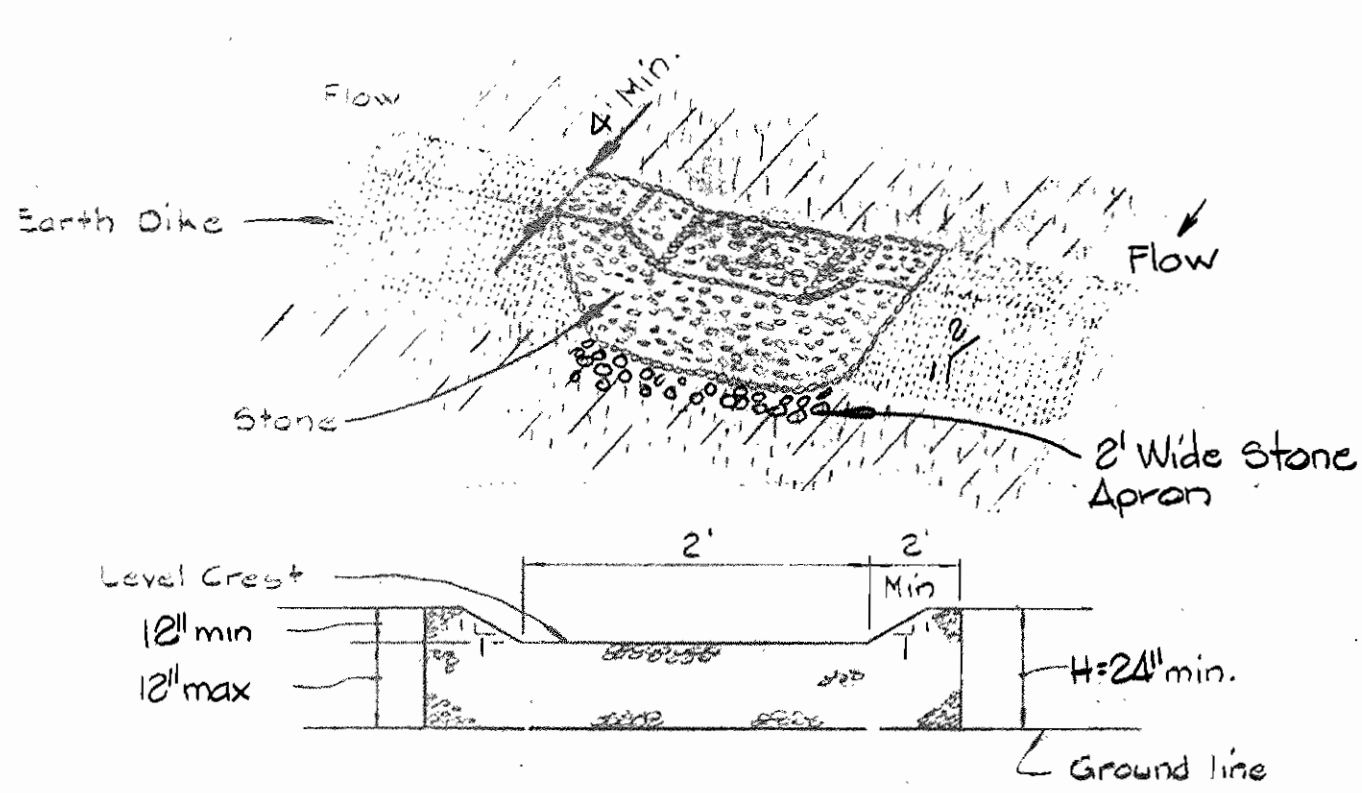
PROFILES OF  
FORCE MAIN & SEWER MAIN

ELECTION DISTRICT  
GUILFORD NO. 6

DRAWING NO. 6 OF 7  
SCALE H:1"=100' V:1"=10'

WS 679 S/6

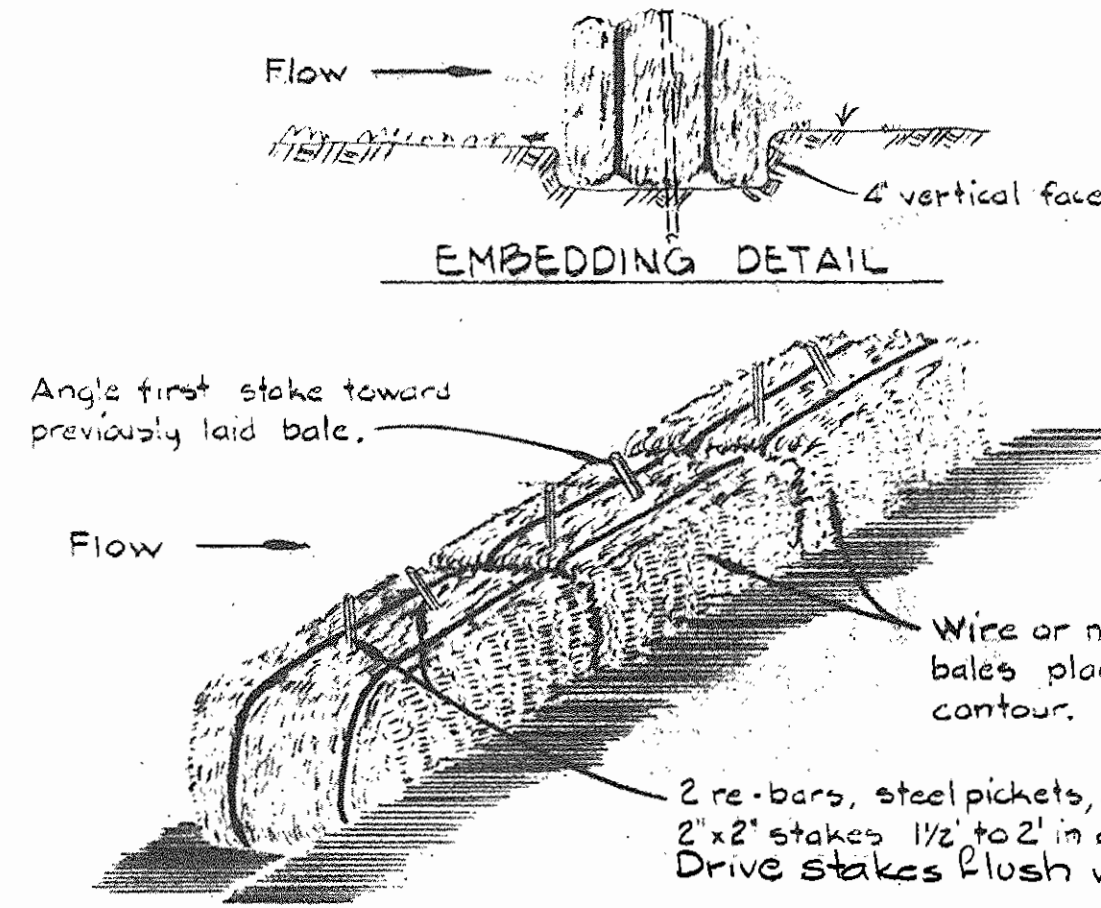
Note: Stone size: 4"-8" small rip-rap with 1" thick of 2" aggregate placed on up-grade side of small rip-rap



PROFILE

STONE OUTLET STRUCTURE

Standard Symbols: — 500 —



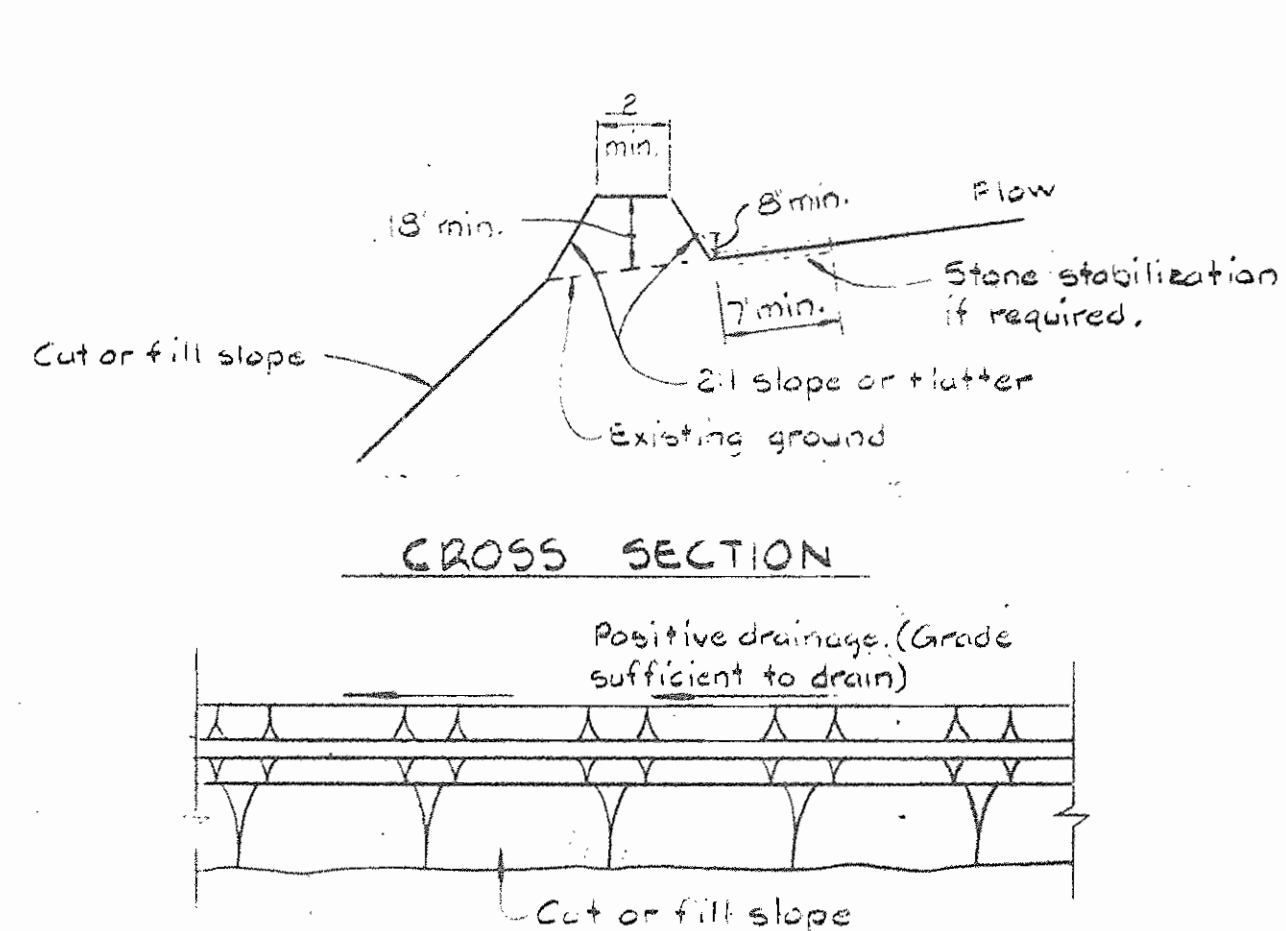
EMBEDDING DETAIL

ANCHORING DETAIL

STRAW BALE DIKE

Note: Inspection shall be frequent and repair replacement shall be made promptly as needed.

Standard Symbols: — 00 —

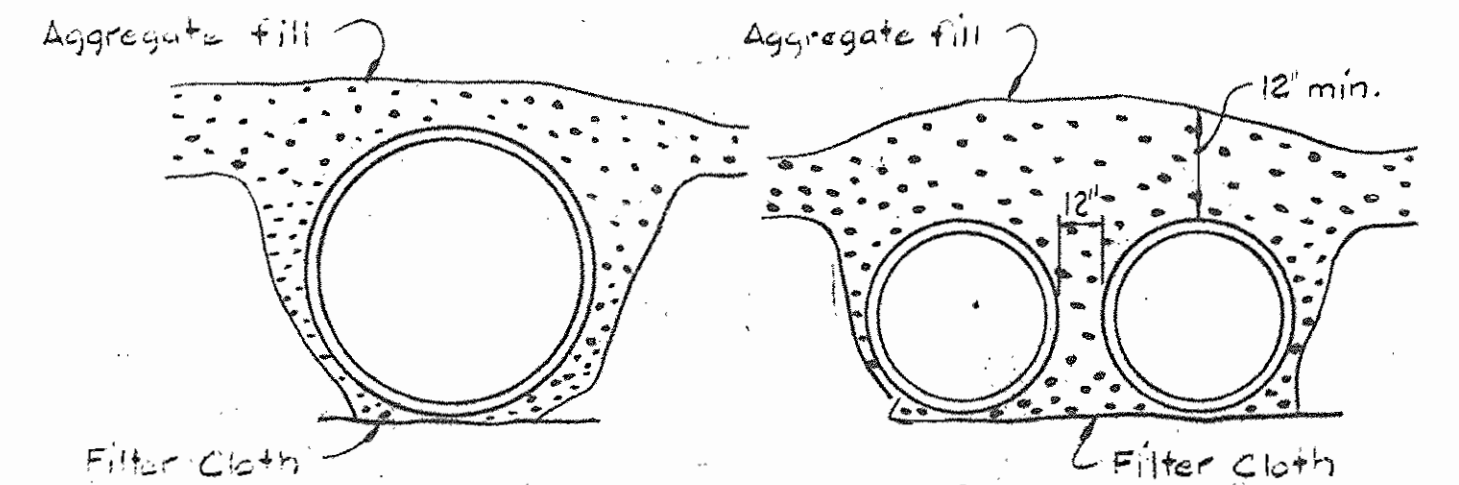
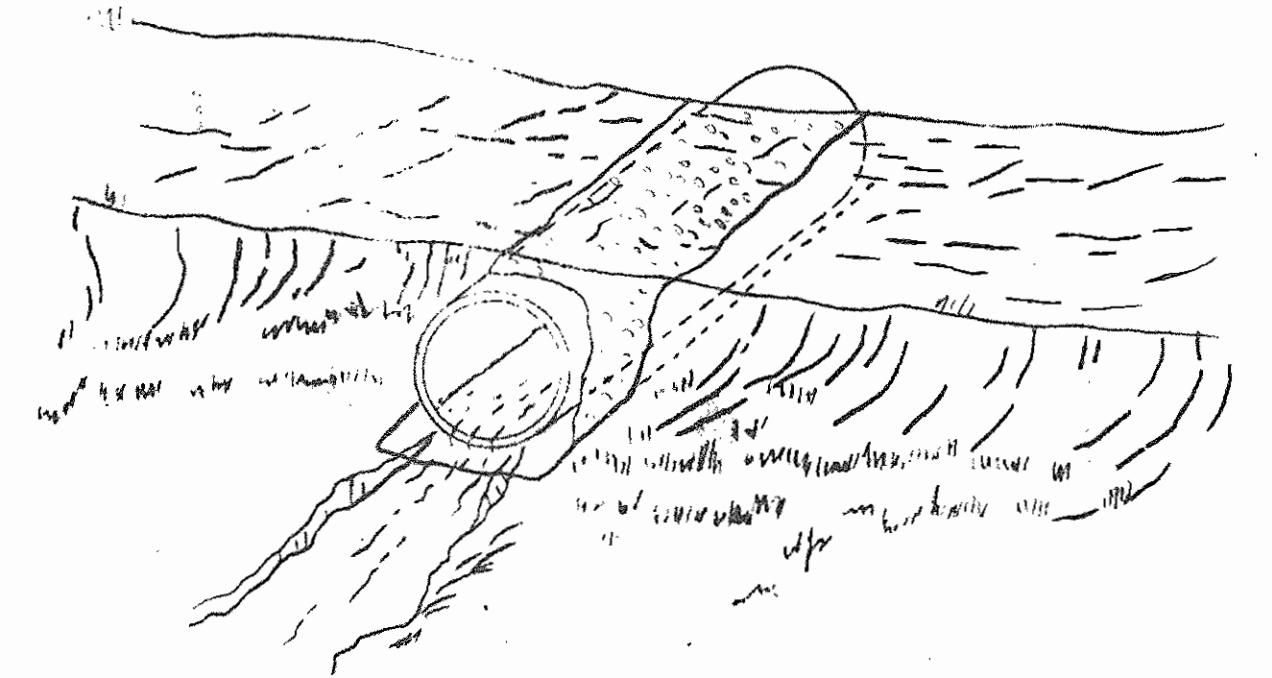


CROSS SECTION

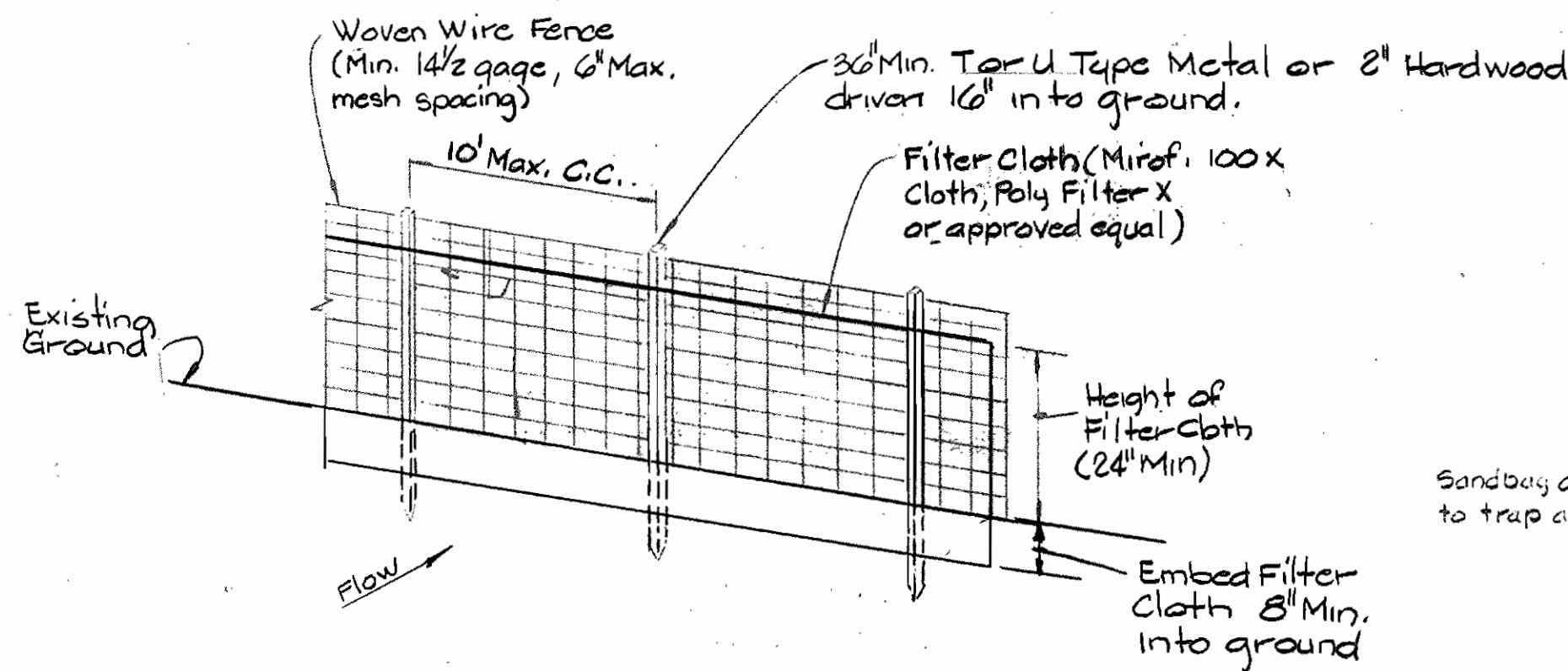
PLAN VIEW

DIVERSION DIKE

Note: All Sediment Control Structures. Periodic inspection and needed maintenance shall be provided after each rain.



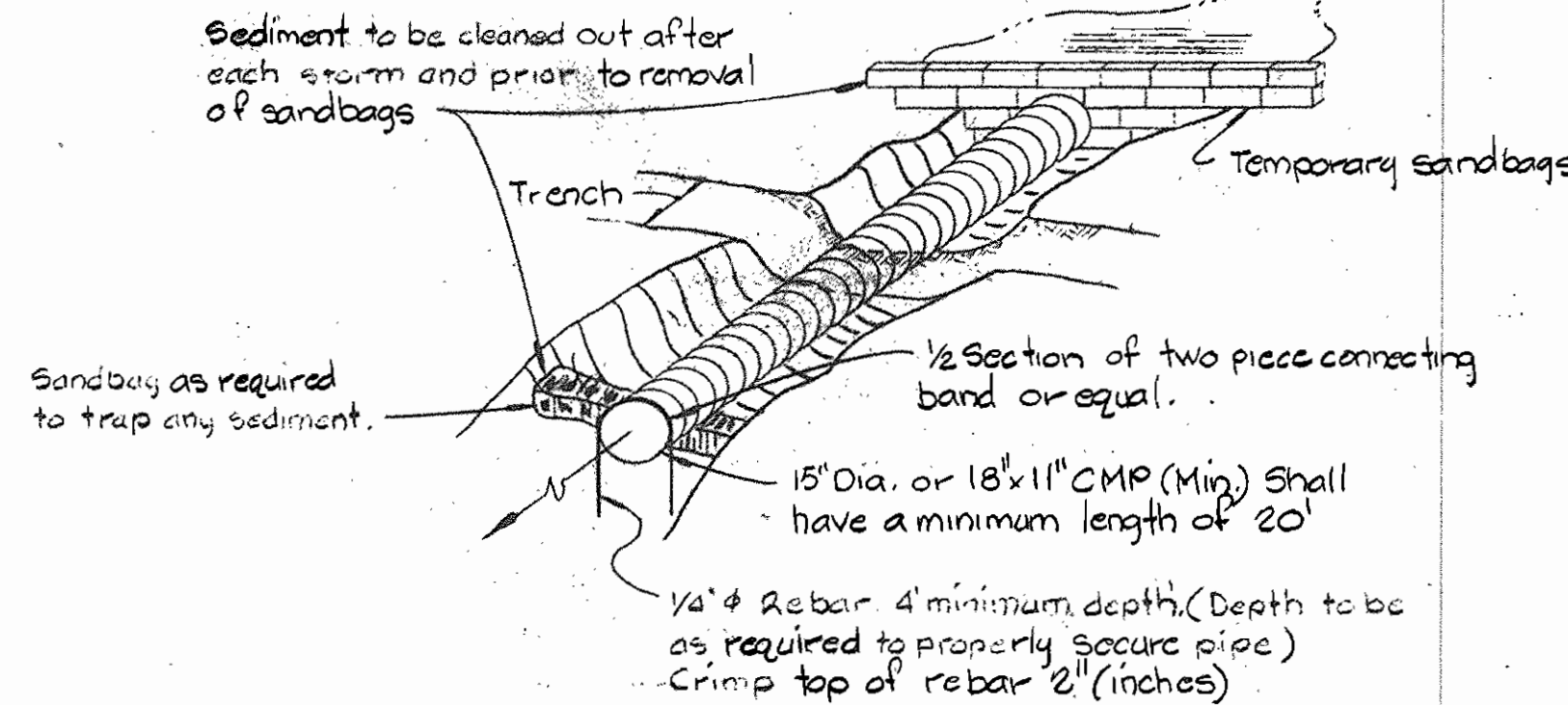
TEMPORARY ACCESS CULVERT



NOTES:

1. Woven wire fence to be fastened securely to fence posts by use of wire ties.
2. Filter cloth to be fastened securely to woven wire fence by use of wire ties spaced every 24" at Top and Mid Section.

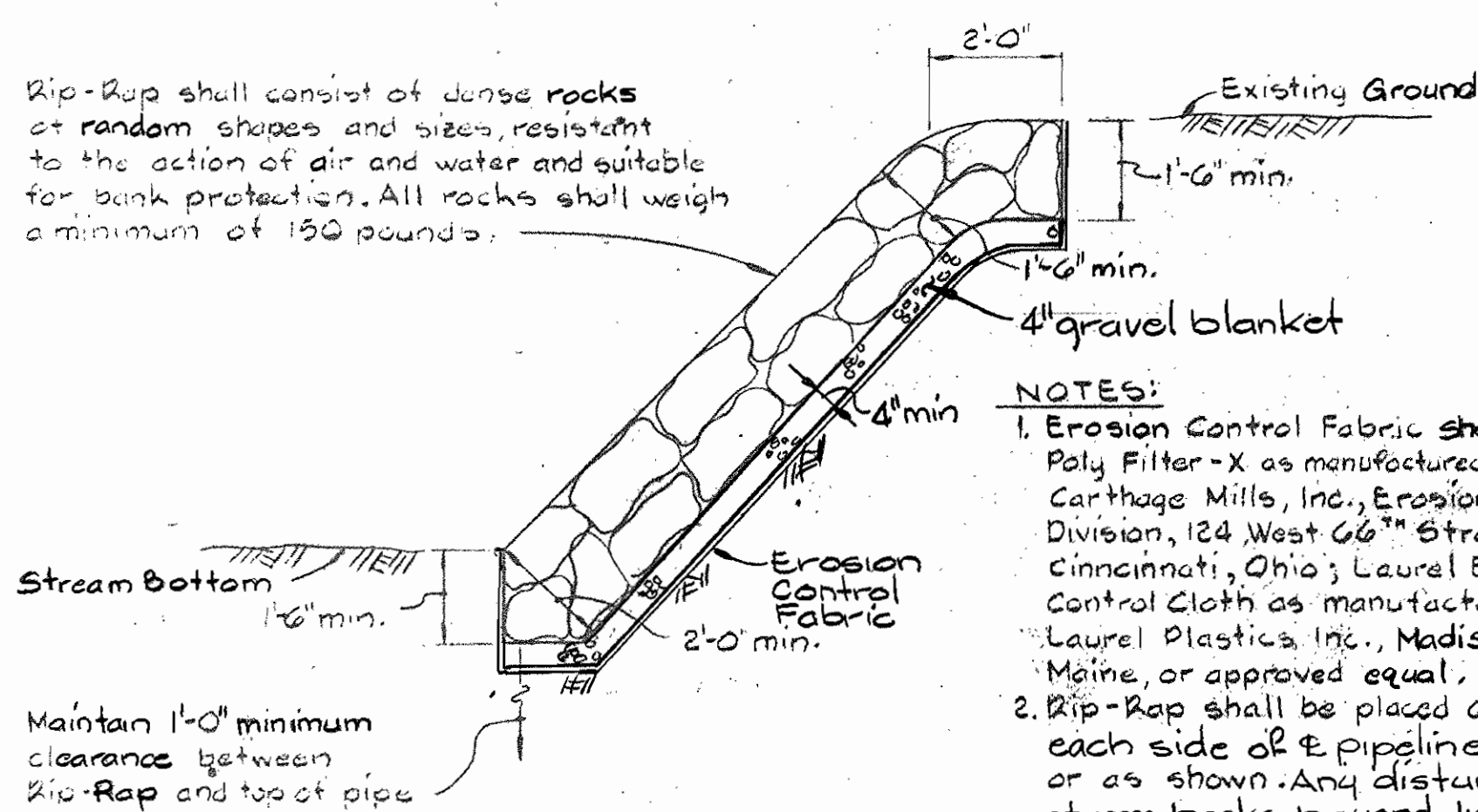
SILT FENCE DETAIL



SOIL CONSERVATION MEASURES AT SMALL STREAM CROSSING

CONSTRUCTION SEQUENCE - SEDIMENT CONTROL PROCEDURES

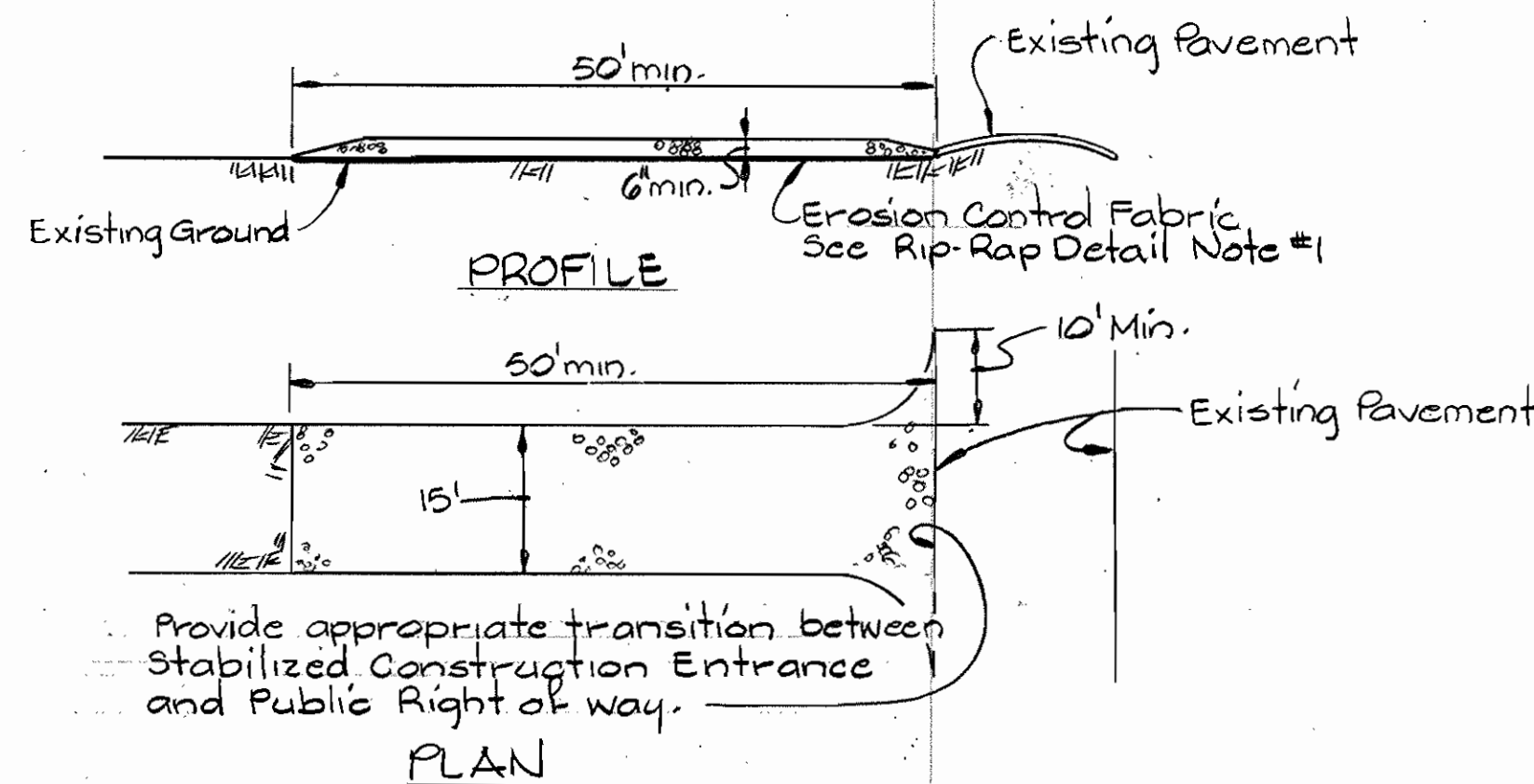
1. Obtain Sediment Control Permit (Article 15.05.3) and a copy of 1983 Md. Standards and Specifications for Soil Erosion and Sediment Control.
2. Clear, Grub and Strip as required for Force Main and Outfall Sewer Construction -- Protect streams from Erosion of stored topsoil. Separate stored topsoil from subsoil.
3. Construct Silt Fence and Straw Bale Dike Structure immediately after stripping. Straw Bale Dikes and Silt Fences are interchangeable.
4. Construct pipe lines. Excavated material shall be stock piled on high side of Trench.
5. Provide sand bag velocity checks in any trench over 100 feet long that is kept open overnight.
6. Restore Erosion Control Structures disturbed by construction.
7. Stabilize disturbed area as construction progresses with temporary seeding and mulching (or permanent restoration).
8. Complete permanent restoration.
9. Remove sediment structures when directed.



NOTES:

1. Erosion Control Fabric shall be Poly Filter-X as manufactured by Carthage Mills, Inc., Erosion Control Division, 124 West 66<sup>th</sup> Street, Cincinnati, Ohio; Laurel Erosion Control Cloth as manufactured by Laurel Plastics Inc., Madison, Maine, or approved equal.
2. Rip-Rap shall be placed 6' each side of the pipeline or as shown. Any disturbance to stream banks beyond limits shown shall be protected with rip-rap at contractor's expense.

RIP-RAP DETAIL



PROFILE

PLAN

Notes:

1. Stone Size - M.S.H.A. size No. 2.
2. The entrance shall be maintained in a condition which will prevent tracking or flowing of sediment onto public right of way.

STABILIZED CONSTRUCTION ENTRANCE

Dorsey Run  
Force Main and Outfall  
Contract No. 679-5  
Project No. S-4-6011

DEPARTMENT OF PUBLIC WORKS  
HOWARD COUNTY, MARYLAND

Robert M. Benjamin  
DIRECTOR OF PUBLIC WORKS - DATE  
6-29-84  
CHIEF - BUREAU OF UTILITIES - DATE

Robert M. Benjamin  
CHIEF - BUREAU OF ENGINEERING - DATE  
6-29-84  
Acting CHIEF - UTILITIES DIVISION - DATE

WHITMAN, REQUARDT  
AND ASSOCIATES  
ENGINEERS  
2315 ST. PAUL ST  
BALTIMORE, MARYLAND

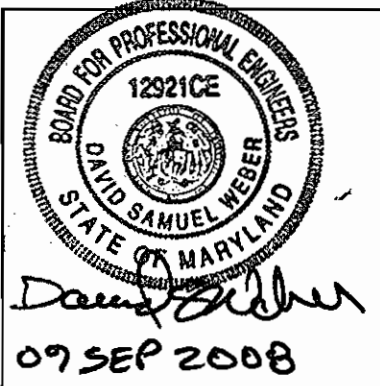
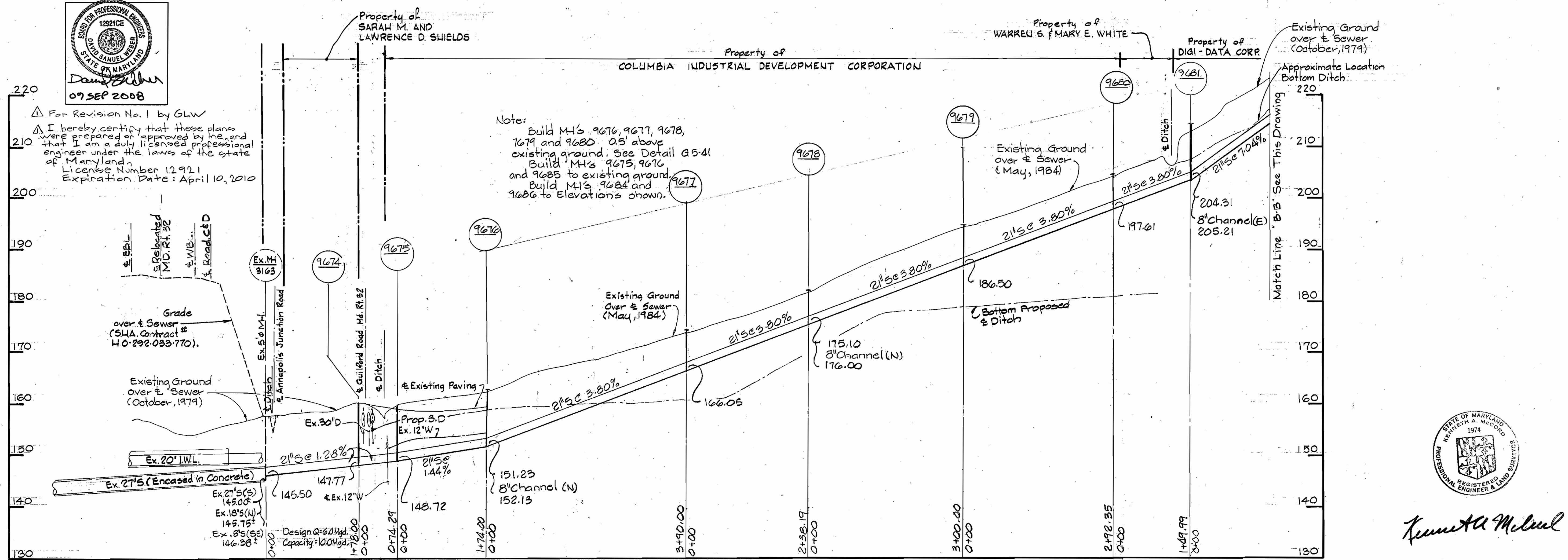
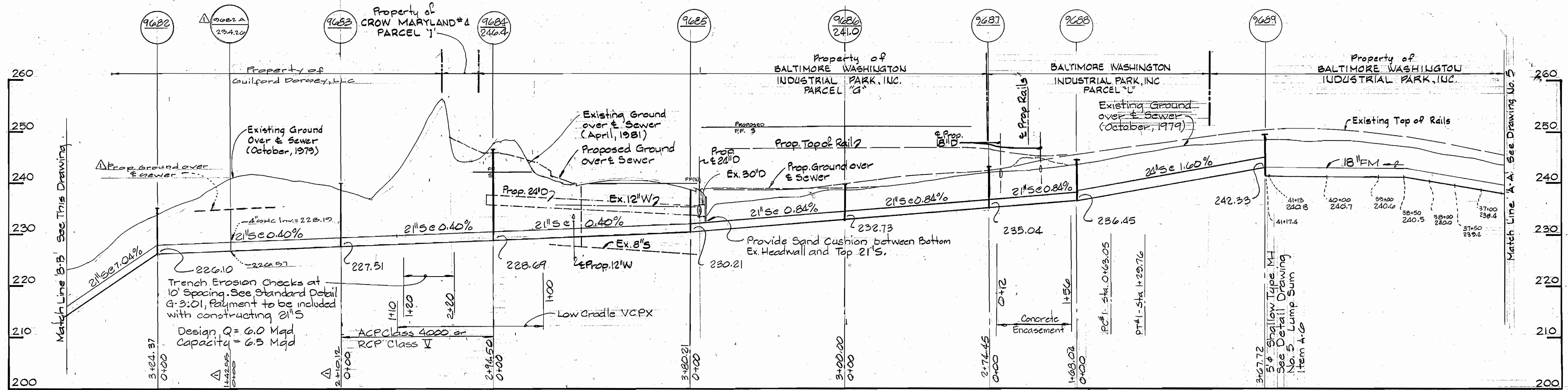


BY	NO	REVISION	DATE

SEDIMENT CONTROL  
DETAILS

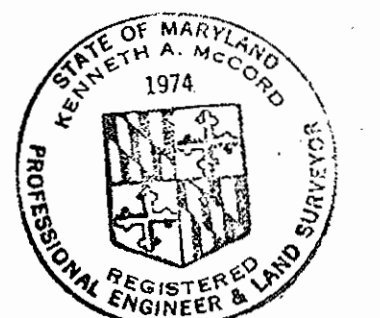
ELECTION DISTRICT  
GUILFORD NO. 6

SCALE  
AS  
SHOWN  
SHEET  
7 OF 7



For Revision No. 1 by GLW  
 I hereby certify that these plans were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the state of Maryland.  
 License Number 12921  
 Expiration Date: April 10, 2010

Note:  
 Build M's 9676, 9677, 9678, 9679 and 9680 .05' above existing ground. See Detail A5-41  
 Build M's 9675, 9676 and 9685 to existing ground.  
 Build M's 9684 and 9686 to Elevations shown.



*Kenneth A. McNeil*

Dorsey Run  
 Force Main and Outfall  
 Contract No. G-79-5  
 Project No. S-4-6071

DEPARTMENT OF PUBLIC WORKS  
 HOWARD COUNTY, MARYLAND  
 Daniel F. Nimm, Director of Public Works  
 Robert M. Swann, Chief - Bureau of Utilities

WHITMAN REQUARDT AND ASSOCIATES  
 ENGINEERS  
 2315 ST. PAUL ST.  
 BALTIMORE, MARYLAND

CONTRACT NO. 679-S  
 PROJECT NO. S-4-6071

PROFILES OF  
 FORCE MAIN & SEWER MAIN

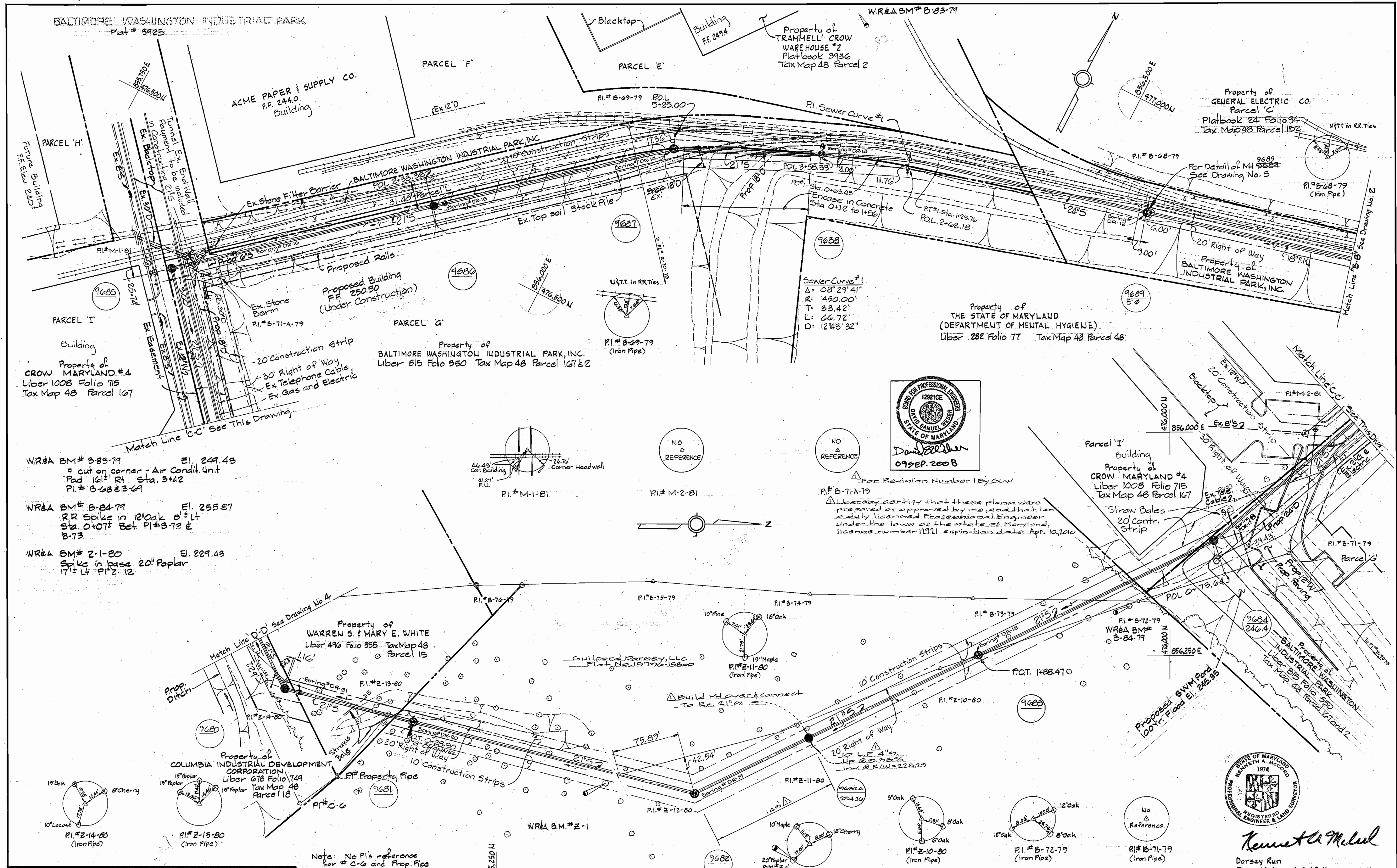
ELECTION  
 GUILFORD

DISTRICT  
 NO. 6

DRAWING  
 NO. 6  
 OF 7

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

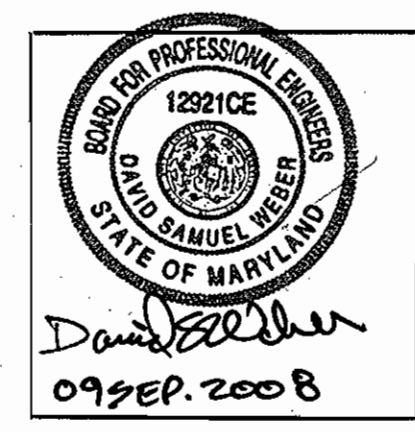




W.R.E.A. BM# B-83-79 El. 249.43  
 cut on corner - Air Condit. Unit  
 Pad 161' Rt Sta. 3+42  
 P.I. # B-68-B-69

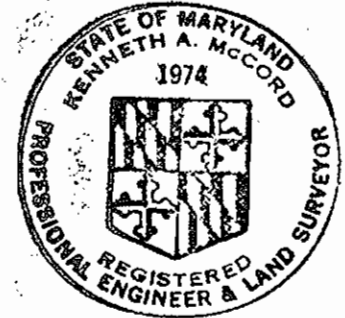
W.R.E.A. BM# B-84-79 El. 255.57  
 R.R. Spike in 12" oak 8" Lt  
 Sta. 0+07.2 Bet. P.I. # B-72-E  
 B-73

W.R.E.A. BM# Z-1-80 El. 229.43  
 Spike in base 20" Poplar  
 17 1/2' Lt P.I. # Z-12



FOR REVISION NUMBER 1 BY GLW

I hereby certify that these plans were prepared or approved by me, and that I am a duly licensed Professional Engineer under the laws of the state of Maryland, license number 11921, expiration date, Apr. 10, 2010



**Kenneth A. McNeil**  
 Dorsy Run  
 Force Main and Outfall  
 Contract No. 679-5  
 Project No. S-4-G071

**DEPARTMENT OF PUBLIC WORKS**  
 HOWARD COUNTY, MARYLAND

*John F. Nunn* 6-29-84  
 DIRECTOR OF PUBLIC WORKS - DATE

*Robert A. Brinson* 6-29-84  
 CHIEF - BUREAU OF UTILITIES - DATE

*James J. Davis* 6-29-84  
 Acting CHIEF - UTILITIES DIVISION - DATE

**WHITMAN REQUARDT AND ASSOCIATES**  
 ENGINEERS  
 2315 ST. PAUL ST.  
 BALTIMORE, MARYLAND

CONTRACT NO. 679-S  
 PROJECT NO. S-4-G071

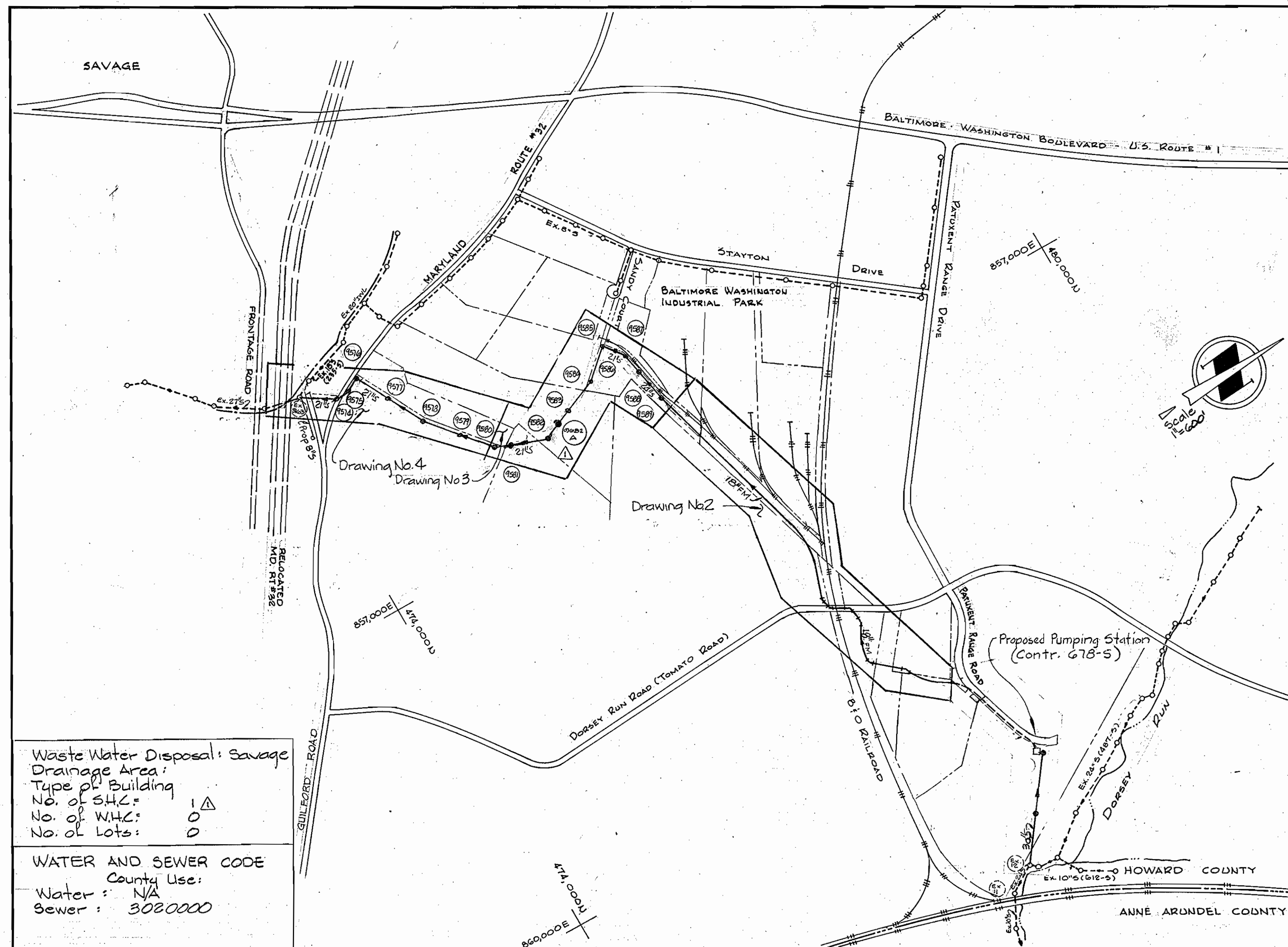
PLAN OF  
 FORCE MAIN & SEWER MAIN

ELECTION DISTRICT  
 GUILFORD NO. 6

DRAWING NO. 3 OF 7  
 SCALE 1" = 50'

W. O. 6340-2

F.S. # 634816370



- ### GENERAL NOTES
- 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 TO THE SATISFACTION OF THE ENGINEER, AT THE CONTRACTOR'S EXPENSE.
  - ALL HORIZONTAL CONTROLS ARE BASED ON MARYLAND STATE COORDINATES.
  - ALL VERTICAL CONTROLS ARE BASED ON U.S.G.S. DATUM.
  - ALL PIPE ELEVATIONS SHOWN ARE INVERT ELEVATIONS.
  - CLEAR ALL UTILITIES BY A MINIMUM OF 6". CLEAR ALL POLES BY 2'-0" MINIMUM OR TUNNEL AS REQUIRED. THE OWNER HAS CONTACTED THE UTILITIES COMPANIES AND HAS MADE ARRANGEMENTS FOR BRACING OF POLES AS SHOWN ON THE DRAWINGS. IN THE EVENT THE CONTRACTOR'S WORK REQUIRES THE BRACING OF ADDITIONAL POLES, ANY COST INCURRED BY THE OWNER FOR THE BRACING OF ADDITIONAL POLES OR DAMAGES SHALL BE DEDUCTED FROM MONEY OWED THE CONTRACTOR. THE CONTRACTOR SHALL COORDINATE WITH THE UTILITY COMPANIES TO SCHEDULE THE BRACING OF THE POLES.
  - FOR DETAILS NOT SHOWN ON THE DRAWINGS, AND FOR MATERIALS AND CONSTRUCTION METHODS, USE HOWARD COUNTY DESIGN MANUAL, VOLUME IV, STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION. THE CONTRACTOR SHALL HAVE A COPY OF VOLUME IV ON THE JOB.
  - CONTRACTOR SHALL NOTIFY THE FOLLOWING UTILITIES OR AGENCIES AT LEAST FIVE WORKING DAYS BEFORE STARTING WORK SHOWN ON THESE PLANS.
    - STATE HIGHWAY ADMINISTRATION - 531-5533
    - BALTIMORE GAS & ELECTRIC COMPANY -
      - CONTRACTOR SERVICE 561-2585
      - UNDERGROUND DAMAGE CONTROL 234-5621
      - TROUBLE SHOOTING 298-7013
    - "MISS UTILITY" - 1 - 559-0100
    - CHESAPEAKE & POTOMAC (C&P) TELEPHONE COMPANY - 393-3648.
    - AMERICAN TELEPHONE AND TELEGRAPH -
      - CABLE LOCATION DIVISION - 1-665-3803
    - COLONIAL PIPELINE COMPANY - 795-1390
    - BUREAU OF UTILITIES, HOWARD COUNTY - 992-2366.
  - TREES AND SHRUBS ARE TO BE PROTECTED FROM DAMAGE TO MAXIMUM EXTENT. TREES AND SHRUBS LOCATED WITHIN THE CONSTRUCTION STRIP ARE NOT TO BE REMOVED OR DAMAGED BY THE CONTRACTOR.
  - CONTRACTOR SHALL REMOVE TREES, STUMPS AND ROOTS ALONG LINE OF EXCAVATION. PAYMENT FOR SUCH REMOVAL SHALL BE INCLUDED IN THE UNIT PRICE BID FOR CONSTRUCTION OF THE MAIN.
  - WHERE TEST PITS HAVE BEEN MADE ON EXISTING UTILITIES, THEY ARE NOTED BY THE SYMBOL AT THE LOCATION OF THE TEST PIT. A NOTE OR NOTES CONTAINING THE RESULTS OF THE TEST PIT OR PITS IS INCLUDED ON THE DRAWINGS. EXISTING UTILITIES IN THE VICINITY OF THE PROPOSED WORK FOR WHICH TEST PITS HAVE NOT BEEN DUG SHALL BE LOCATED BY THE CONTRACTOR TWO WEEKS IN ADVANCE OF CONSTRUCTION OPERATIONS AT HIS OWN EXPENSE.
  - ALL SEWER MAINS SHALL BE R.C.P. CLASS IV., V.C.P.X., A.C.P. CLASS 3300 OR HOBAS UNLESS OTHERWISE NOTED.
  - THE CONTRACTOR SHALL PROVIDE A JOINT IN ALL SEWER MAINS WITHIN 2'-0" OF EXTERIOR MANHOLE WALL.
  - ALL MANHOLES SHALL BE 4'-0" INSIDE DIAMETER UNLESS OTHERWISE NOTED.
  - MANHOLES SHOWN WITH 12" AND 16" WALLS ARE FOR BRICK MANHOLES ONLY.
  - MANHOLES DESIGNATED W.T. IN PLAN AND PROFILE SHALL HAVE WATERTIGHT FRAME AND COVERS, STANDARD DETAIL ST. 45-G 5.52.
  - ALL MANHOLE FRAME AND COVERS SHALL BE SET 1.5' ABOVE EXISTING GRADE EXCEPT WHERE OTHERWISE SHOWN IN PROFILE. SEE DETAIL 05-41.
  - BLOCK ALL FORCE MAIN FITTINGS WITH CONCRETE. SEE STANDARD WATER MAIN DETAILS.
  - FORCE MAIN SHALL BE PRESTRESSED CONCRETE CYLINDER PIPE (PCCP) OR DUCTILE IRON PIPE (DIP) CLASS 51.

**ENGINEER'S CERTIFICATION**  
 I CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD COUNTY SOIL CONSERVATION DISTRICT.

*Kenneth A. McCord* 5-18-84  
 KENNETH A. MCCORD, P.E. 1974 DATE

**DEVELOPER'S CERTIFICATION**  
 "I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN, AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF NATURAL RESOURCES APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT".

*John F. Nummy* 7-2-84  
 BUREAU OF ENGINEERING DEPARTMENT OF PUBLIC WORKS DATE

SEDIMENT CONTROL MEASURES FOR THIS CONTRACT WILL BE IMPLEMENTED IN ACCORDANCE WITH ARTICLE 15 OF THE STANDARD SPECIFICATIONS.

REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENT  
*James M. Melton* 6-27-84  
 SIGNATURE DATE  
 U.S. SOIL CONSERVATION SERVICE

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD COUNTY CONSERVATION DISTRICT.  
 APPROVED: *Robert W. Zupnow* 6-27-84  
 HOWARD S.C.D. DATE

DEPARTMENT OF PUBLIC WORKS  
 HOWARD COUNTY, MARYLAND  
*John F. Nummy* 6-27-84 *Robert W. Zupnow* 6-27-84  
 DIRECTOR OF PUBLIC WORKS - DATE CHIEF, BUREAU OF ENGINEERING - DATE  
*Robert M. Dainoff* 6-29-84 *Kenneth A. McCord* 6-20-84  
 CHIEF, BUREAU OF UTILITIES - DATE Acting CHIEF, UTILITIES DIVISION - DATE

Waste Water Disposal: Savage  
 Drainage Area:  
 Type of Building:  
 No. of S.H.C.: 1 Δ  
 No. of W.H.C.: 0  
 No. of Lots: 0  
 WATER AND SEWER CODE  
 County Use:  
 Water: N/A  
 Sewer: 3020000

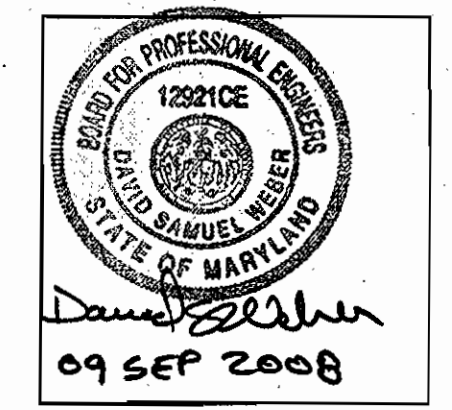
# CONTRACT NO. 679-S

## PROJECT NO. S-4-6071

### DORSEY RUN

#### HOWARD COUNTY, MARYLAND

#### DEPARTMENT OF PUBLIC WORKS



For Revision Number 1 By GLW  
 I hereby certify that these plans were prepared or approved by me, and that I am a duly licensed Professional Engineer under the laws of the State of Maryland, license number 12821CE, expiration date April 10, 2010.

QUANTITIES			
Item	Bid	As-Built	Material Supplier
18" F.M.	3160 LF	3163	LOCK JOINT PIPE
21" S	3900 LF	3838	CONC. PIPE PROD. CO.
24" S	370 LF	370	" " " "
4" S Δ	10 LF		" " " "
Manholes	Δ 17 Ea.	15	ATLANTIC PRECAST CONC. CO.



Dorsey Run  
 Force Main and Outfall  
 Contract 679-S  
 Project S-4-6071

WHITMAN REQUARDT AND ASSOCIATES  
 ENGINEERS  
 2315 ST. PAUL ST.  
 BALTIMORE, MARYLAND

CONTRACT NO. 679-S  
 PROJECT NO. S-4-6071

LOCATION MAP

ELECTION DISTRICT  
 GUILFORD NO. 6

DRAWING NO. 1 OF 7  
 SCALE 1" = 600'

W.O. 10002 10001