

CONTRACT NO. 34-1210-D

Waste Water Disposal: Savage
 Drainage Area: Middle Patuxent
 Type of Building: Single Family
 No. of SHC: 2 (FOR FUTURE)
 No. of WHC: - LOTS
 No. of Lots: -
 WATER & SEWER CODE
 County Use:
 Water: E-27
 Sewer: 6650000

ITEM	QUANTITIES		
	BID	AS-BUILT	MATERIAL/SUPPLIER
12" Water L.F.	580	577	U.S. Pipe
8" Water L.F.	60	60	"
8" Valves Ea.	2	2	SMITH METROPOLITAN
6" Water L.F.	10	10	U.S. Pipe
Fire Hydrants Ea.	1	1	SMITH METROPOLITAN
8" S.(D.I.P.) L.F.	290	276	U.S. Pipe
8" Sewer L.F.	1,300	1,285	JOHN MANVILLE/BELAIR RD.
Manholes Ea.	8	8	ATLANTIC/PRECAST CORP.
6" J.H.C. L.F.	55	52	JOHN MANVILLE/BELAIR RD.
MH Frame Covers		5 - STANDARD 3 - W.T.	B.#C. SUPPLY

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. ANY COST INCURRED TO THE CONTRACTOR FOR TUNNELING OR BRACING AT POLES SHALL BE INCLUDED IN UNIT PRICES BID FOR CONSTRUCTION OF THE MAIN.
- FOR DETAILS NOT SHOWN ON THE DRAWINGS USE HOWARD COUNTY STANDARD DETAILS.
- FOR MATERIALS AND CONSTRUCTION METHODS USE HOWARD COUNTY STANDARD SPECIFICATIONS.
- CONTRACTOR SHALL LOCATE EXISTING UTILITIES A MINIMUM OF TWO (2) WEEKS IN ADVANCE OF CONSTRUCTION OPERATIONS IN THE VICINITY OF PROPOSED UTILITIES AT HIS OWN EXPENSE.
- CONTRACTOR SHALL NOTIFY THE FOLLOWING UTILITIES OR AGENCIES AT LEAST FIVE (5) WORKING DAYS BEFORE STARTING WORK SHOWN ON THESE PLANS:
 STATE HIGHWAY ADMINISTRATION - 531-5533
 BALTIMORE GAS & ELECTRIC COMPANY - UNDERGROUND ELECTRIC DISTRIBUTION CUSTOMER SERVICE - 685-0123.
 BALTIMORE GAS & ELECTRIC COMPANY - UNDERGROUND GAS DISTRIBUTION CUSTOMER SERVICE - 685-0123.

"MISS UTILITY" - 1 - 559-0100
 CHESAPEAKE & POTOMAC (C&P) TELEPHONE COMPANY - 393-3648
 AMERICAN TELEPHONE AND TELEGRAPH - CABLE LOCATION DIVISION - 1-865-3803
 COLONIAL PIPELINE COMPANY - 781-4641.
 BUREAU OF UTILITIES HOWARD COUNTY - 992-2366.

CONSTRUCTION SEQUENCE

SEDIMENT CONTROL PROCEDURES

- OBTAIN SEDIMENT CONTROL PERMIT (ARTICLE 15.05-3).
 - OBTAIN WATER RESOURCES ADMINISTRATION PERMIT (ARTICLE 40.25)
 - CLEAR, GRUB AND STRIP AS REQUIRED FOR SEWER CONSTRUCTION-- PROTECT STREAMS FROM EROSION OF STORED TOPSOIL.
 - CONSTRUCT DIKE AND SILT FENCE STRUCTURES IMMEDIATELY AFTER STRIPPING.
 - CONSTRUCT SEWER PIPE LINES.
 - RESTORE EROSION CONTROL STRUCTURES DISTURBED BY SEWER CONSTRUCTION.
 - STABILIZE DISTURBED AREAS AS CONSTRUCTION PROGRESSES WITH TEMPORARY SEEDING AND MULCHING (OR PERMANENT RESTORATION).
 - COMPLETE PERMANENT RESTORATION.
 - REMOVE SEDIMENT STRUCTURES WHEN DIRECTED.
- 3-A. SEPARATE STORED TOPSOIL FROM SUBSOIL.
 4-A. A CONTINUOUS SEDIMENT BARRIER SHALL BE CONSTRUCTED ALONG THE LOW SIDE OF THE TRENCH WITHIN THE 100 YEAR FLOOD PLAIN AND MAINTAINED UNTIL THE AREA IS STABILIZED.
 5-A. EXCAVATED MATERIAL SHALL BE STOCKPILED ON HIGH SIDE OF TRENCH.
 9-A. ALL SEDIMENT CONTROL DEVICES SHALL REMAIN IN SERVICE WITHIN THE 100 YEAR FLOOD PLAIN UNTIL REMOVAL IS APPROVED BY THE WATER RESOURCES ADMINISTRATION INSPECTOR AND BY THE S.C.S. INSPECTOR.

- 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.
- 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 CONSTRUCTION OF THE MAIN.
- 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.
- ALL WATER MAINS SHALL BE D.I.P. UNLESS OTHERWISE NOTED.
- TOP OF ALL WATER MAINS SHALL HAVE A MINIMUM OF 3-1/2' COVER UNLESS OTHERWISE NOTED.
- VALVES ADJACENT TO TEES SHALL BE STRAPPED TO TEES.
- BLOCK ALL FITTINGS WITH CONCRETE.
- BURY LINE ELEVATIONS ON FIRE HYDRANTS SHALL BE SET TO THE ELEVATIONS SHOWN ON THE DRAWINGS. ALL FIRE HYDRANTS SHALL BE STRAPPED AND BUTTRESSED WITH CONCRETE IN ACCORDANCE WITH STANDARD DETAILS. SOIL AROUND THE FIRE HYDRANT TO BE COMPACTED IN ACCORDANCE WITH SECTIONS 1003 AND 1008 OF THE STANDARD SPECIFICATIONS.
- ALL WATER HOUSE CONNECTIONS SHALL BE FOR AN INSIDE METER SETTING.
- THE CONTRACTOR SHALL NOT OPERATE ANY WATER MAIN VALVES ON THE EXISTING SYSTEM.
- ALL SEWER MAINS SHALL BE C.S.P.X., R.C.S.P., V.C.P.X., A.C.P. CLASS 2400 OR PVC 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 G5, 52.
- ALL MANHOLE FRAME AND COVERS SHALL BE SET 0.5' ABOVE EXISTING GRADE WHERE SHOWN IN PROFILE. SEE DETAIL G 5.41.
- ORIGINAL GROUND OVER WATER AND SEWER WAS TAKEN FROM AERIAL PHOTOGRAPHY PREPARED BY MAPS AND INC., AND VERIFIED BY FIELD SURVEY IN AUG., 1981.
- ALL COPPER WATER HOUSE CONNECTIONS SHALL UTILIZE FLARED FITTINGS.
- STRAW BALE DIKES AND SILT FENCES ARE INTERCHANGEABLE.

CONTRACT NO. 34-1210-D
 VILLAGE OF HICKORY RIDGE
 HOWARD COUNTY, MARYLAND
 DEPARTMENT OF PUBLIC WORKS

REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENT
James M. Klein 4-18-84
 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. Zihner 4-12-84
 HOWARD S.C.D. DATE

Sediment Control Measures for this Contract will be implemented in accordance with Article 15 of the Standard Specifications, and Road Construction Plans F-84-116.

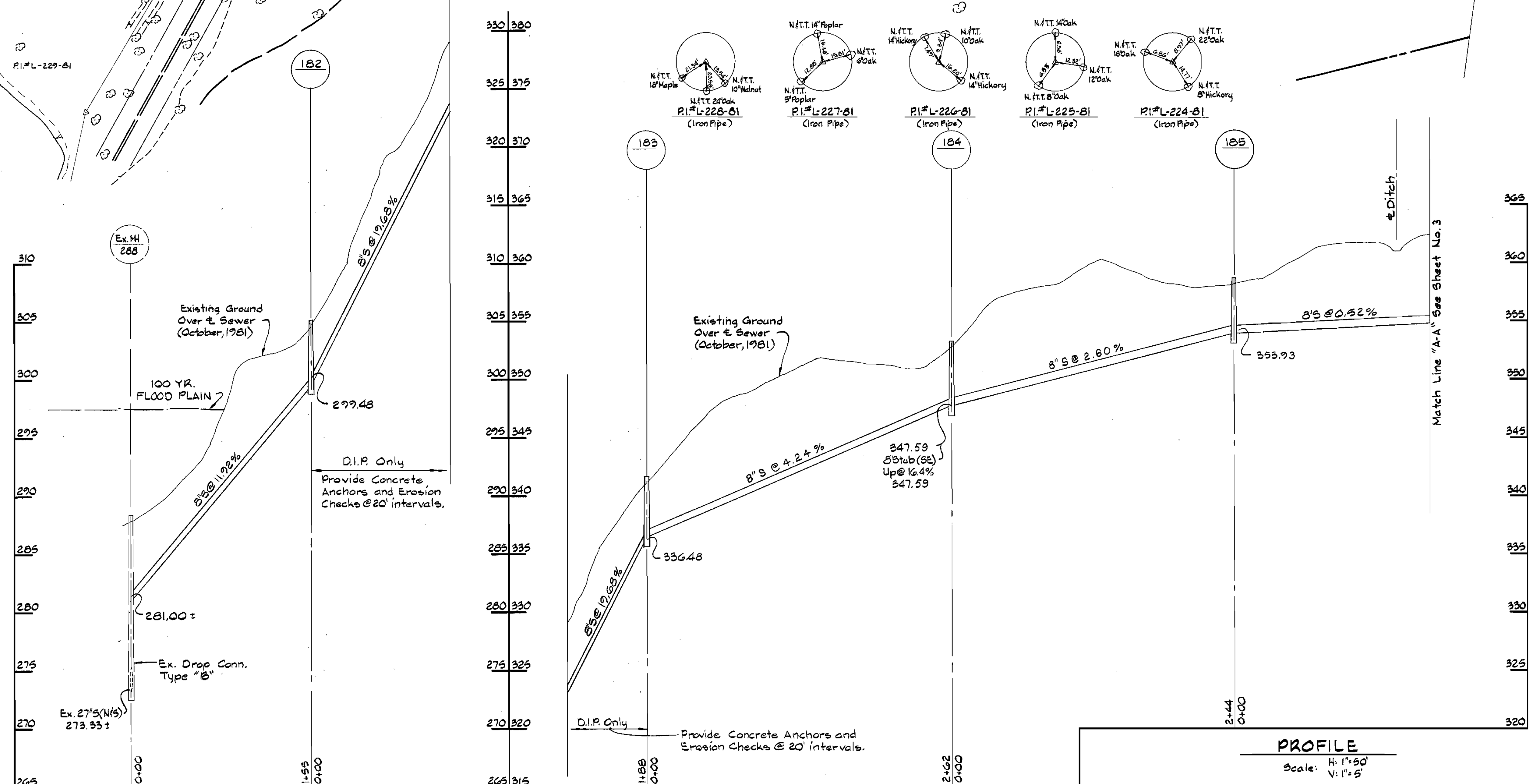
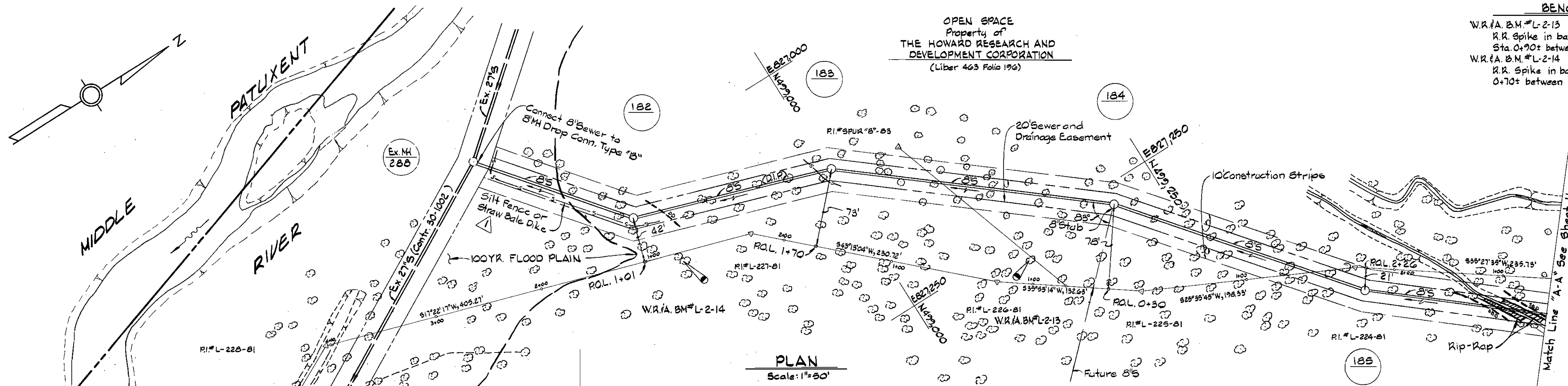
Bright Passage, PARCELS G, H AND LOT 2 Water and Sewer Extensions

DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND <i>Walter F. Norman</i> 4-23-84 DIRECTOR OF PUBLIC WORKS - DATE <i>Robert M. Reuning</i> 4-19-84 CHIEF BUREAU OF UTILITIES - DATE	WHITMAN, REQUARDT AND ASSOCIATES ENGINEERS 2315 ST. PAUL ST. BALTIMORE, MARYLAND 	DES: S.J. DRN: J.R.K. CHK: R.B.N. DATE: _____ BY: _____ NO: _____ REVISION: _____ DATE: _____	VICINITY MAP AND GENERAL NOTES 600 SCALE MAP NO. 35 BLOCK NO. _____	COLUMBIA VILLAGE OF HICKORY RIDGE SECTION 3 AREA 6 ELECTION DISTRICT NO. 5 CONTRACT NO. 34-1210-D SCALE 1"=600' SHEET 1 OF 4
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BENCH MARKS

W.R. & B.M. #L-2-13 Elev. 361.799
 R.R. Spike in base 14" Poplar 25' right of Sta. 0+70± between P.I.#L-225-01 and P.I.#L-226-01.
 W.R. & B.M. #L-2-14 Elev. 305.538
 R.R. Spike in base 20" Poplar 5' left of Sta. 0+70± between P.I.#L-227-01 and P.I.#L-228-01.

OPEN SPACE
 Property of
THE HOWARD RESEARCH AND DEVELOPMENT CORPORATION
 (Liber 463 Folia 196)



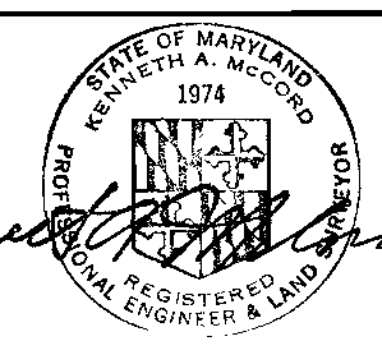
DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND

Robert M. Beisinger 4-23-84
 DIRECTOR OF PUBLIC WORKS - DATE

Robert M. Beisinger 4-19-84
 CHIEF - BUREAU OF UTILITIES - DATE

Walter H. F. ... 4-19-84
 CHIEF - LAND DEVELOPMENT DIVISION - DATE

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



DES: S.J.			
DRN: J.R.K.			
CHK: R.B.N.			
DATE:			
J.R.K.	△	Extended Silt Fence	6/18/84
BY:	NO.	REVISION	DATE

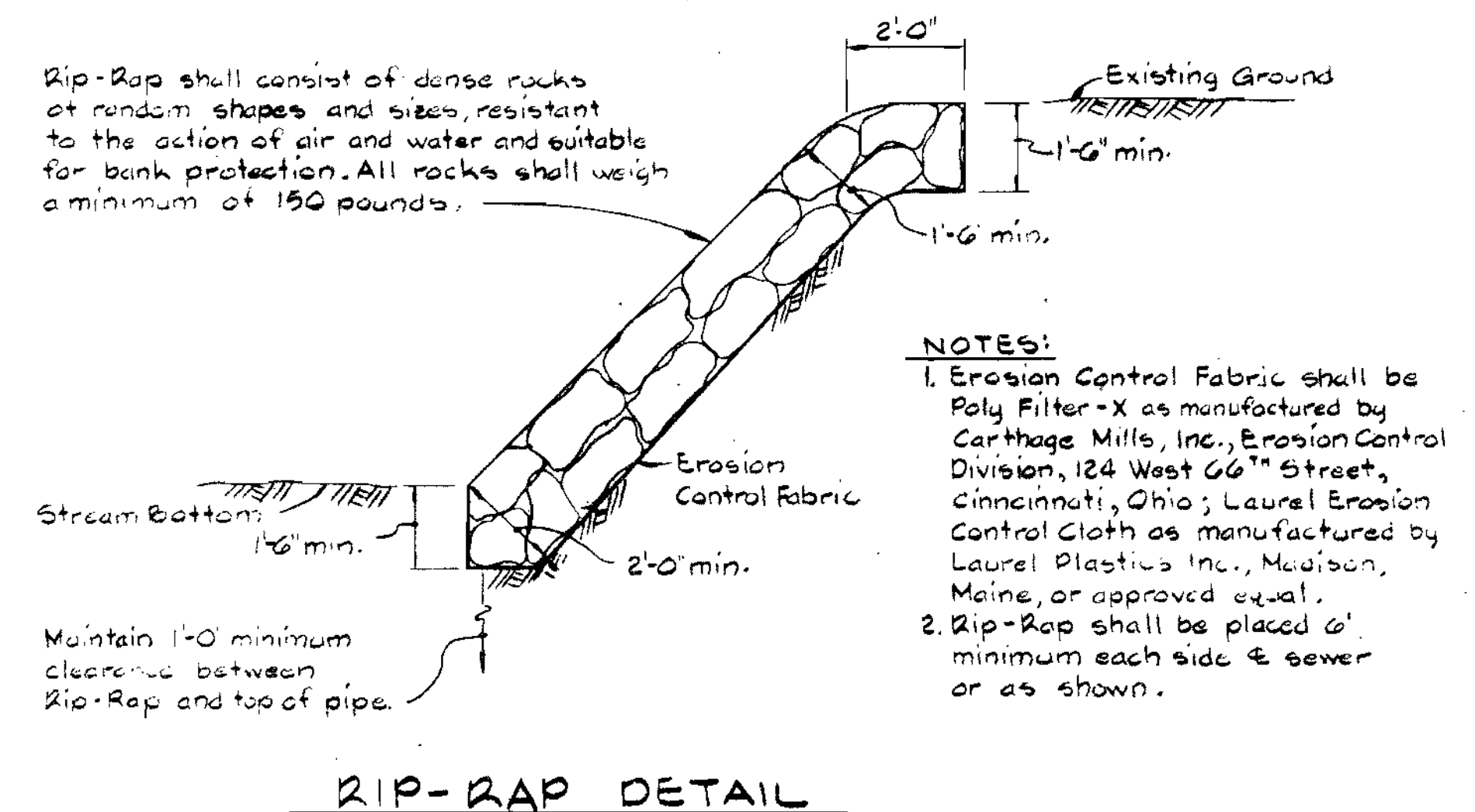
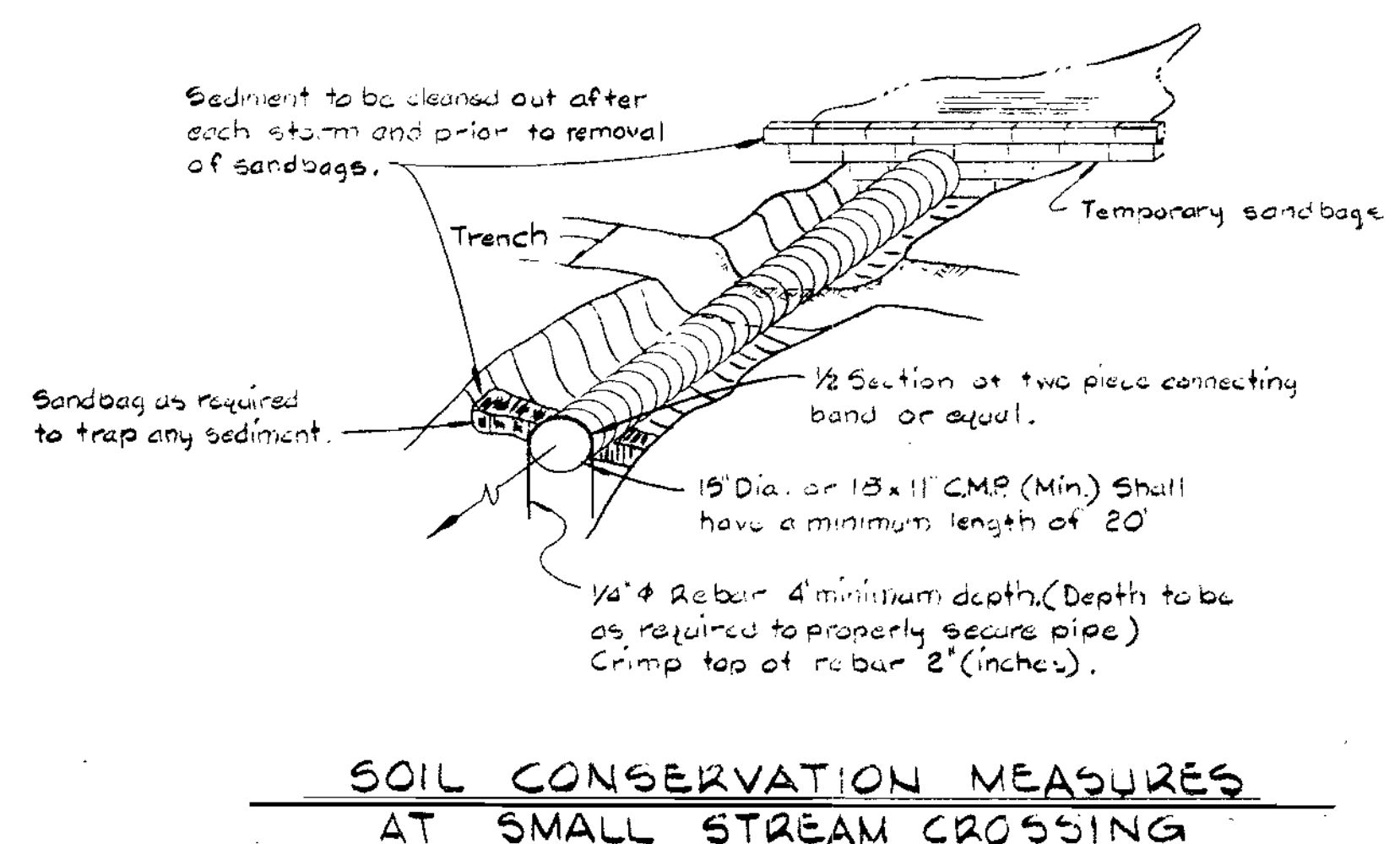
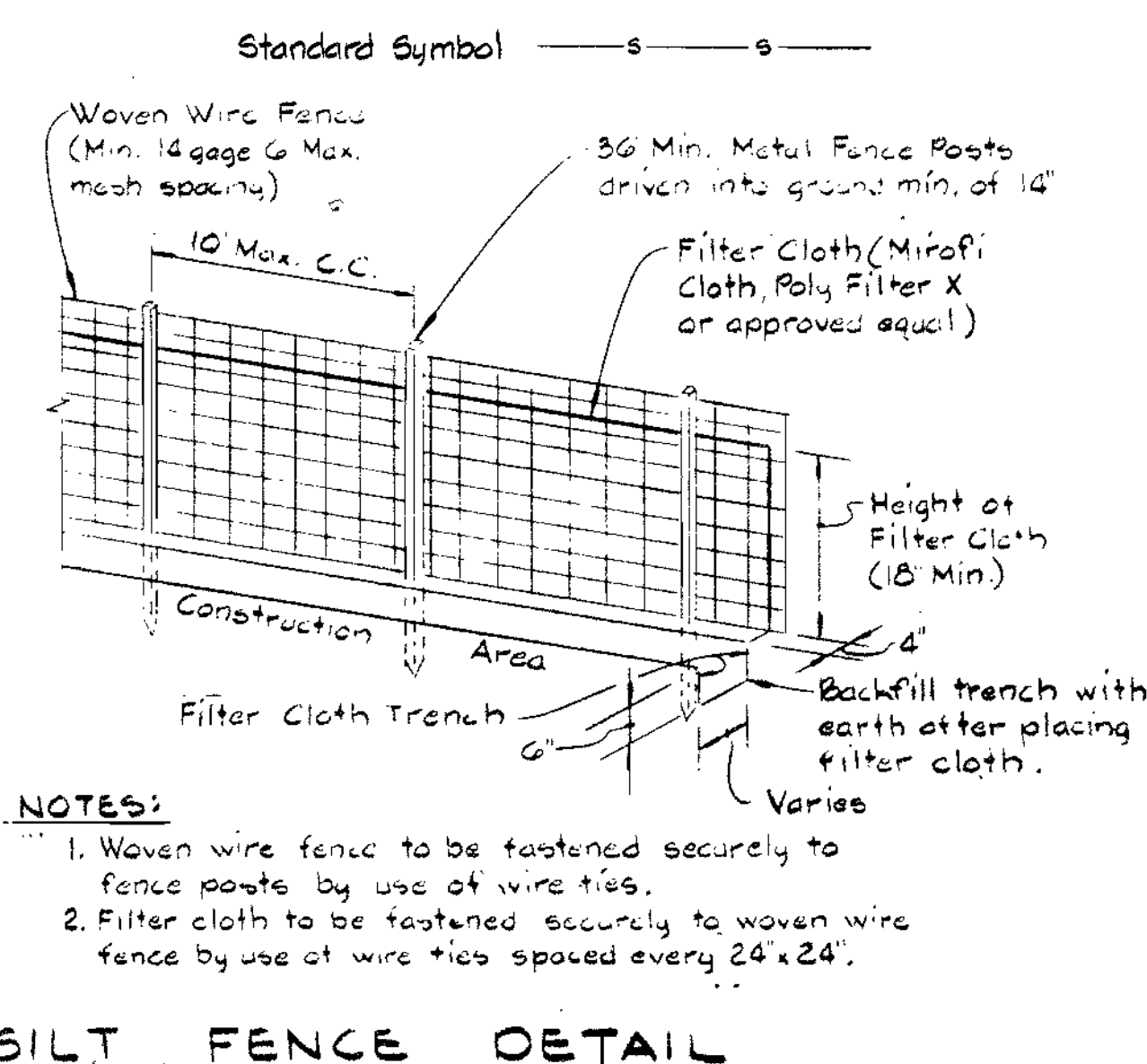
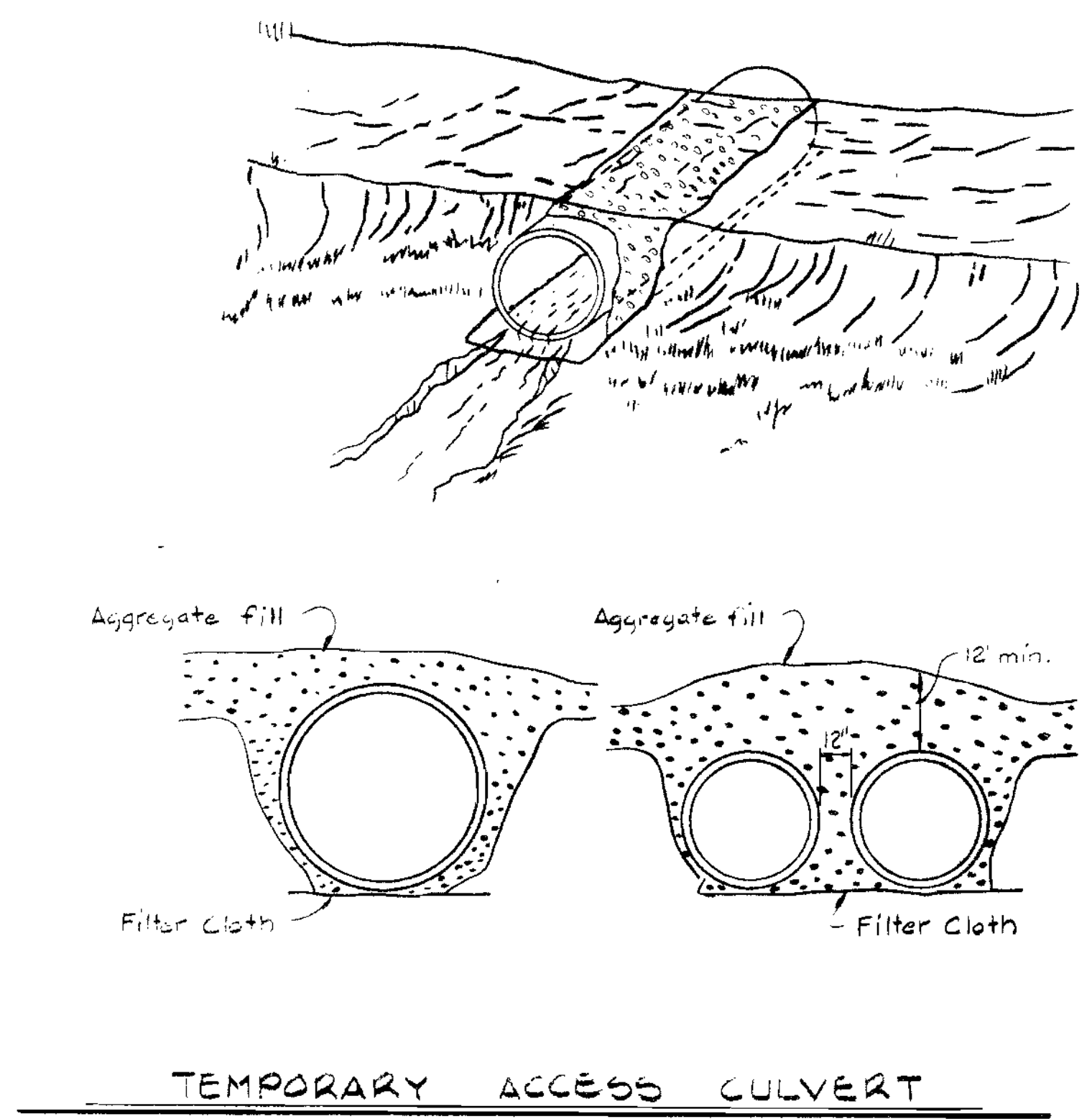
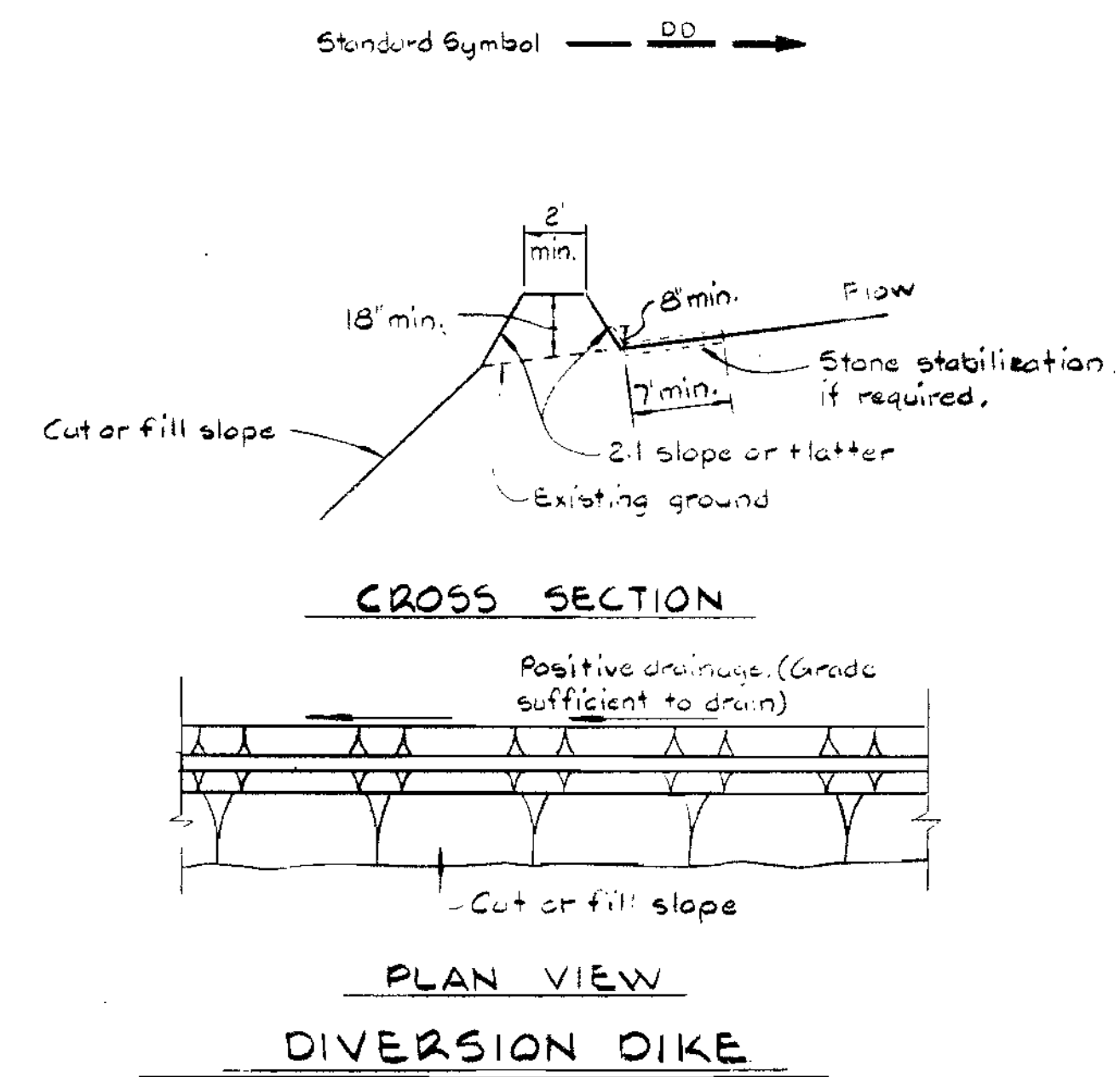
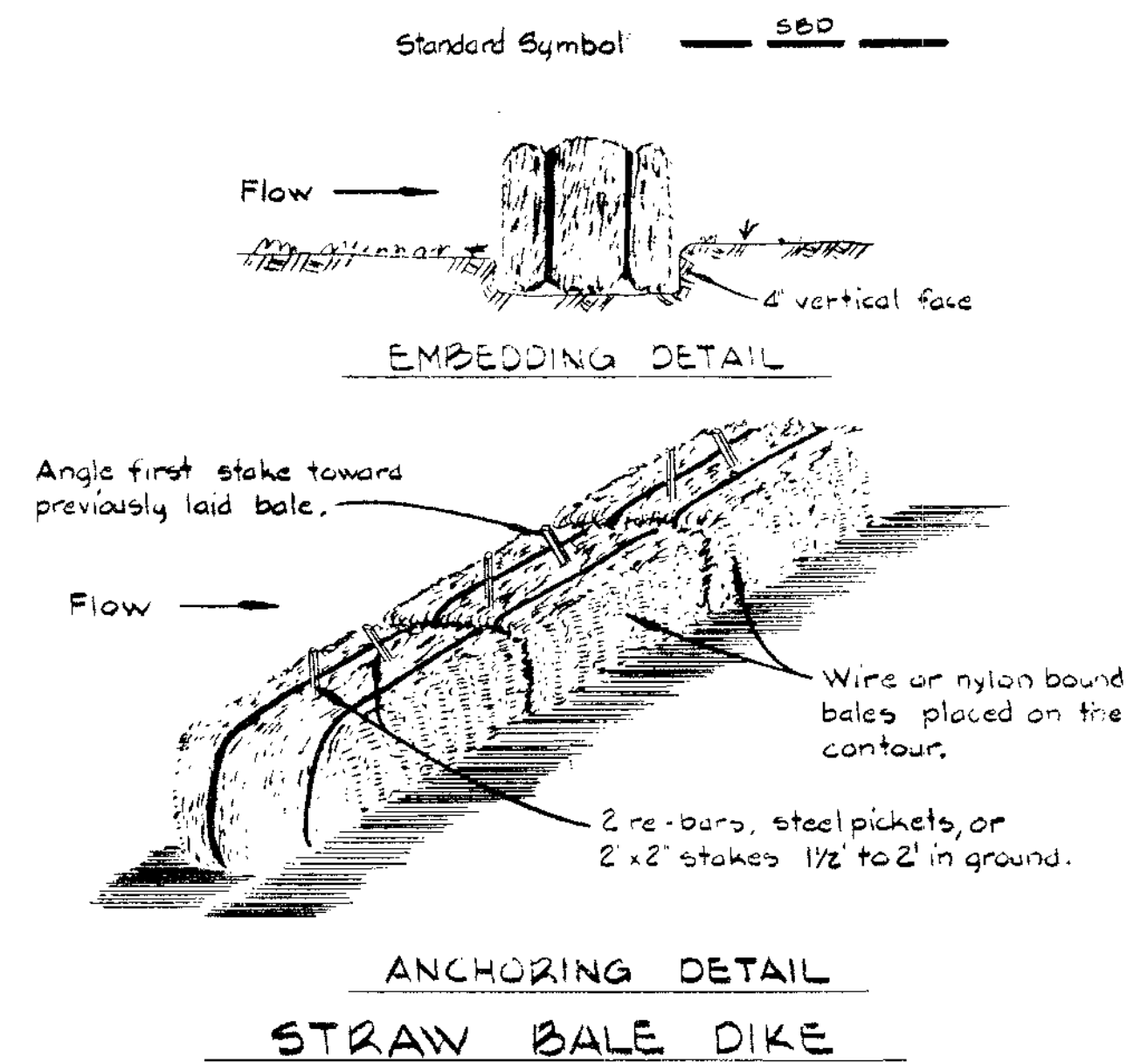
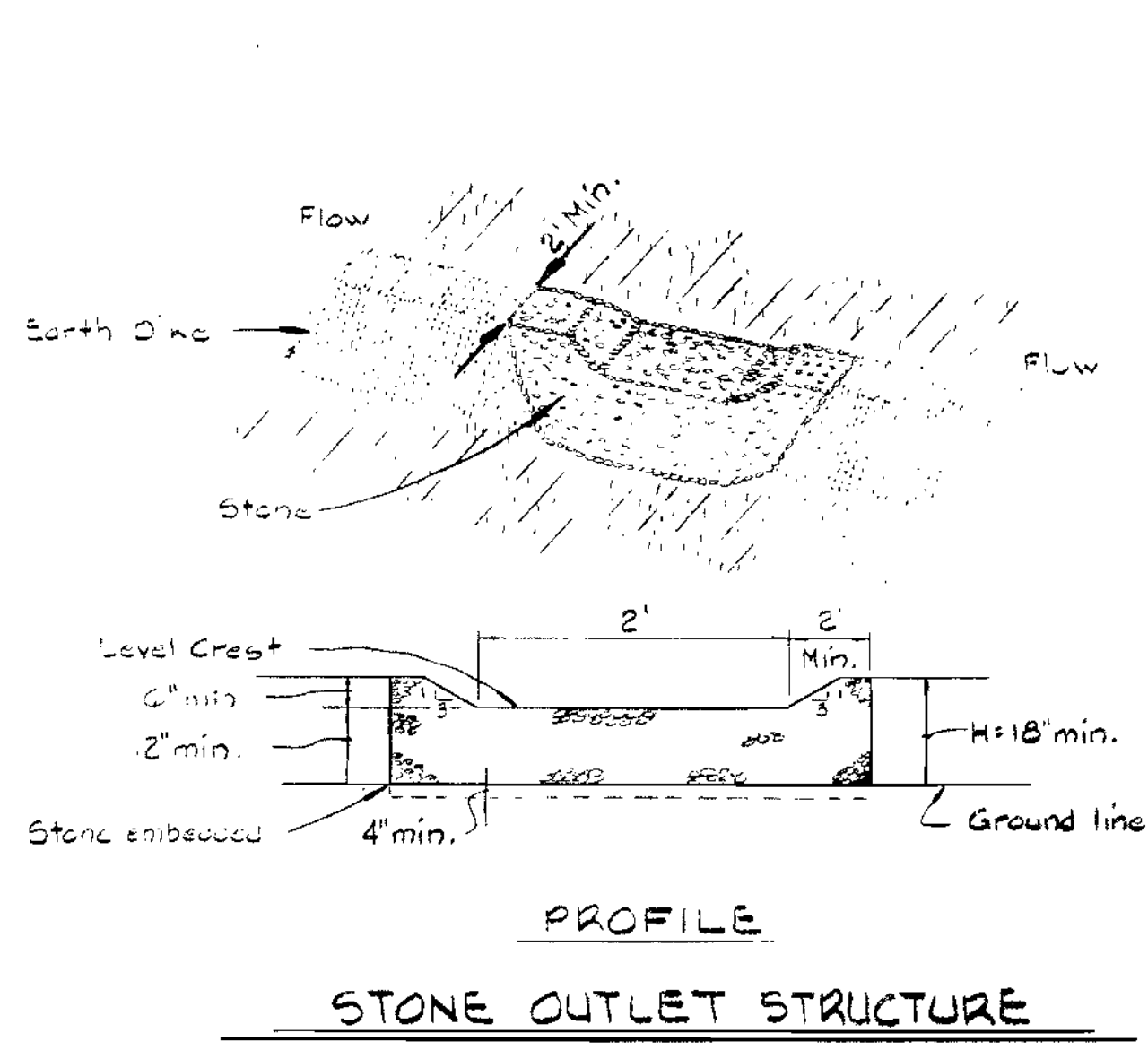
PLAN & PROFILE OF
 SEWER MAINS

600' SCALE MAP NO. _____ BLOCK NO. _____

COLUMBIA
 VILLAGE OF HICKORY RIDGE
 SECTION 3 AREA 6
 ELECTION DISTRICT NO.5
 CONTRACT NO. 34-1210-D

SCALE
 AS
 SHOWN

SHEET
 2 OF 4



Bright Passage, PARCELS G, H & Lot 2
Water and Sewer Extensions

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

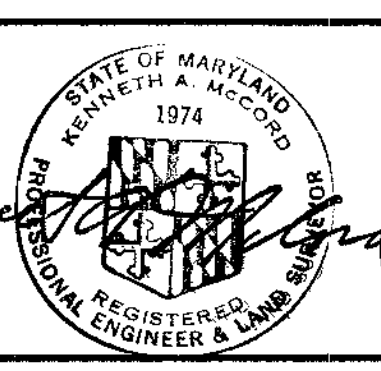
John F. Neumaier 4-23-84
DIRECTOR OF PUBLIC WORKS - DATE

Robert M. Bainger 4-19-84
CHIEF - BUREAU OF UTILITIES - DATE

W. O. 400048

WHITMAN, REQUARDT
AND ASSOCIATES
ENGINEERS

2315 ST. PAUL ST.
BALTIMORE, MARYLAND



DES: S.J.					
DRN: J.R.K.					
CHK: R.B.N.					
DATE:					
BY:	NO.	REVISION	DATE	600' SCALE MAP NO.	RI 24 NO.

SEDIMENT CONTROL
DETAILS

COLUMBIA
VILLAGE OF HICKORY RIDGE
SECTION 3 AREA 6
ELECTION DISTRICT NO. 5
CONTRACT NO. 34-1210-D

SCALE AS SHOWN

SHEET 4 OF 4