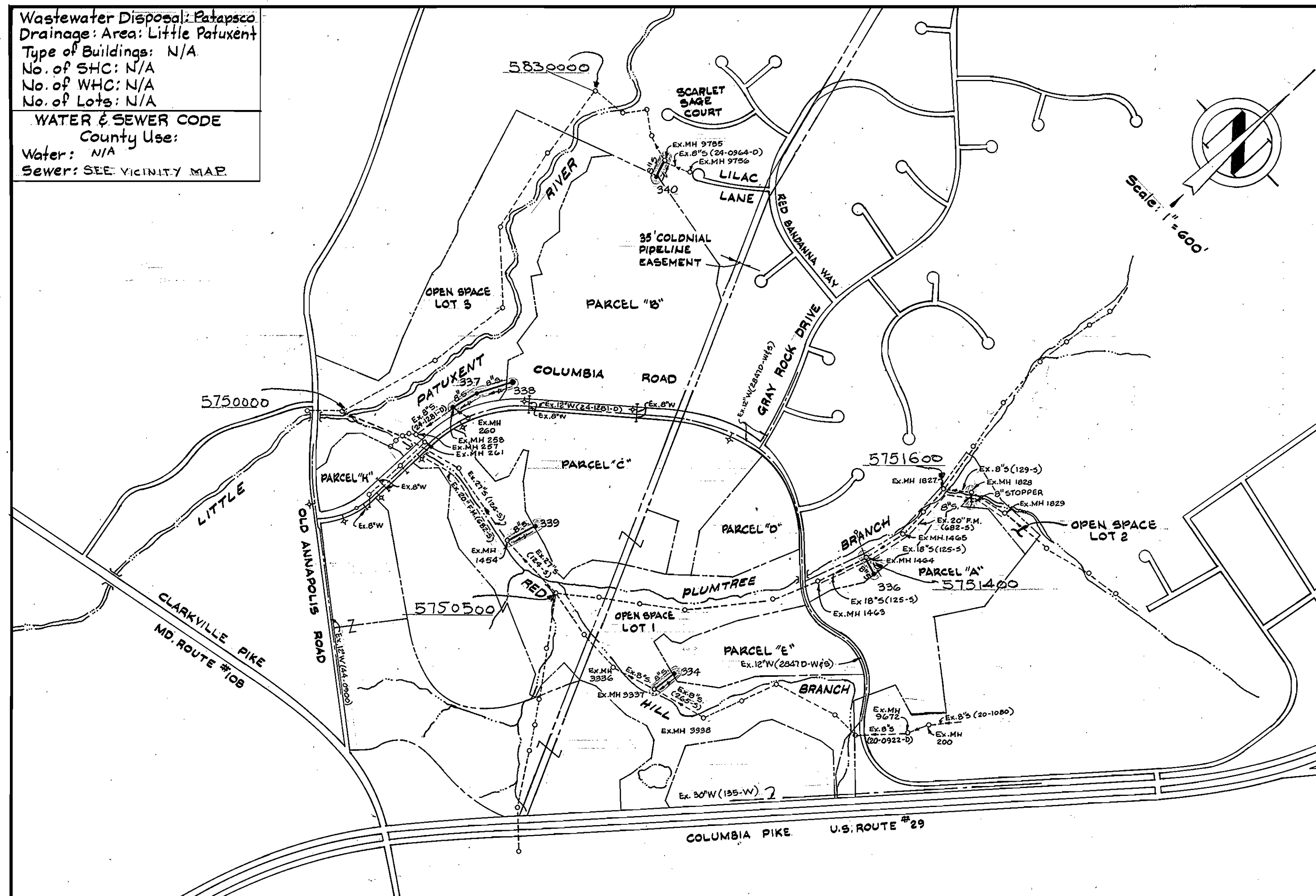


- APPROXIMATE LOCATION OF EXISTING MAINS ARE SHOWN. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT EXISTING MAINS AND SERVICES AND MAINTAIN UNINTERRUPTED SUPPLY. ANY DAMAGE INCURRED SHALL BE REPAIRED IMMEDIATELY TO THE SATISFACTION OF THE ENGINEER AT THE CONTRACTOR'S EXPENSE.
- ALL HORIZONTAL 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.
- 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.
- 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.
- 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 CO. - CONTRACTOR SERVICES 561-2585
 - BALTIMORE GAS & ELECTRIC CO. - UNDER GROUND DAMAGE CONTROL - 234-5621
 - BALTIMORE GAS & ELECTRIC CO. - TROUBLE SHOOTING - 298-9013
 - MISS UTILITY - 1 - 559-0100
 - COLONIAL PIPELINE CO. - 795-1390
 - BUREAU OF UTILITIES, HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS - 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.
- ALL SEWER MAINS SHALL BE C.S.P.X., R.C.S.P., V.C.P.X., A.C.P. CLASS 2400 OR P.V.C. 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 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 G5.41.
- ORIGINAL GROUND OVER WATER AND SEWER WAS TAKEN FROM AERIAL PHOTOGRAPHY PREPARED BY MAPS AND INC., AND VERIFIED BY FIELD SURVEY IN MAY 1984.
- STRAW BALE DIKE AND SILT FENCE ARE INTERCHANGEABLE.
- THE CONTRACTOR SHALL NOT OPERATE ANY WATER MAIN VALVES.



CONSTRUCTION SEQUENCE
SEDIMENT CONTROL PROCEDURES

- OBTAIN SEDIMENT CONTROL PERMIT (ARTICLE 15.05-3)
- CONSTRUCT CONTINUOUS SEDIMENT BARRIER FOR ALL DISTURBED AREAS NOT PROTECTED BY SEDIMENT TRAPS.
- CLEAR, GRUB AND STRIP AS REQUIRED TO PROTECT STREAM FROM EROSION OF STORED TOP SOIL. SEPARATE TOP SOIL FROM SUBSOIL.
- CONSTRUCT PIPELINE.
- ALL EXCAVATED MATERIAL SHALL BE STOCKPILED ON HIGH SIDE OF TRENCH.
- 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.
- ALL SEDIMENT CONTROL DEVICES SHALL REMAIN IN SERVICE UNTIL REMOVAL IS APPROVED BY THE S.C.S. INSPECTOR.
- RESTORATION (TEMPORARY OR PERMANENT) OF AN AREA BETWEEN MANHOLES SHALL FOLLOW WITHIN ONE WEEK OF PIPELAYING IN THAT AREA.

CONTRACT NO. 20-1345-D
DORSEY HALL
HOWARD COUNTY, MARYLAND
DEPARTMENT OF PUBLIC WORKS

QUANTITIES			
ITEM	BID	AS BUILT	MATERIAL/SUPPLIER
8" Sewer L.F.	1,200	1193	P.V.C. J.M.M.F.G. CO.
8" D.I.P. L.F.	140	131	D.I.P. CI.52 ATLANTIC STATE
Manholes Ea.	6	6	ATLANTIC PRECAST

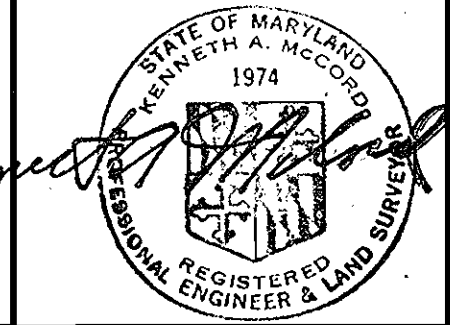
REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENT
[Signature] 4-10-85
 SIGNATURE DATE
 U.S. SOIL CONSERVATION SERVICE

This Development Plan is approved for Soil Erosion and Sediment Control by the Howard County Conservation District.
 APPROVED:
[Signature] 4/10/85
 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-85-86.

DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND
 Director of Public Works - DATE
 Chief - Bureau of Engineering - DATE
 Chief - Bureau of Utilities - DATE
 Chief - Land Development Division - DATE

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



DES: S.J.			
DRN: G.T.F.			
CHK: R.B.N.			
DATE:			
BY:	NO:	REVISION:	DATE:

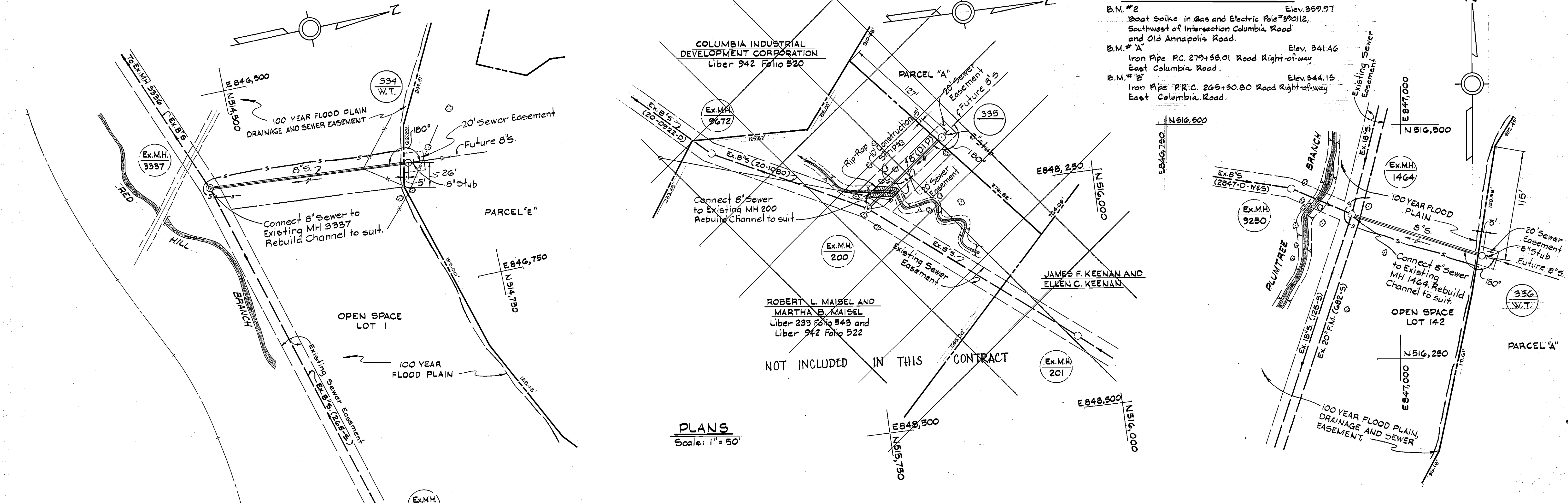
VICINITY MAP AND GENERAL NOTES
 600' SCALE MAP NO. 24-30 BLOCK NO.

DORSEY HALL
 SECTION 2 AREA 2
 ELECTION DISTRICT NO. 2
 CONTRACT NO. 20-1345-D

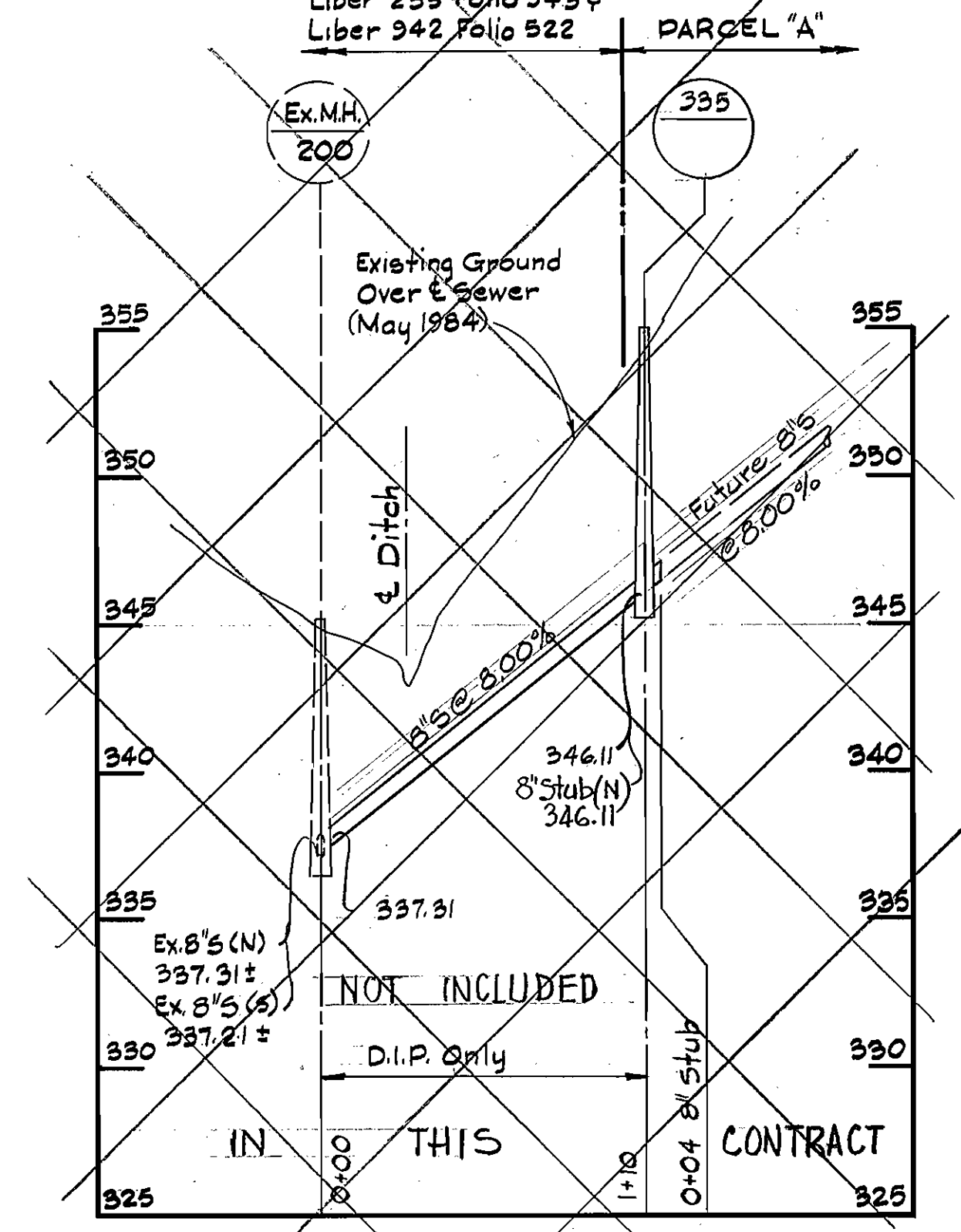
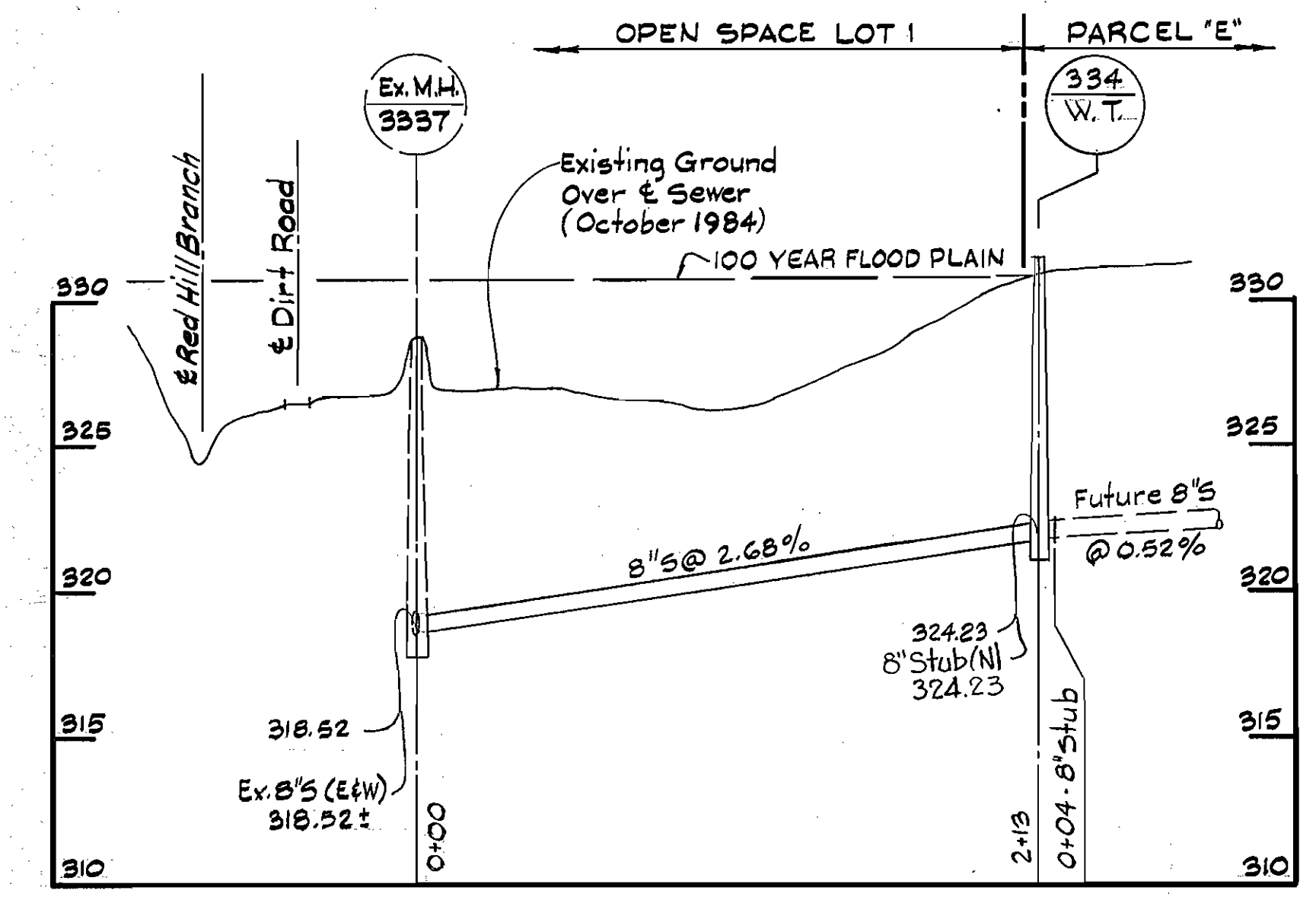
SCALE
 1"=600'
 SHEET
 1 OF 4

~ BENCH MARKS ~

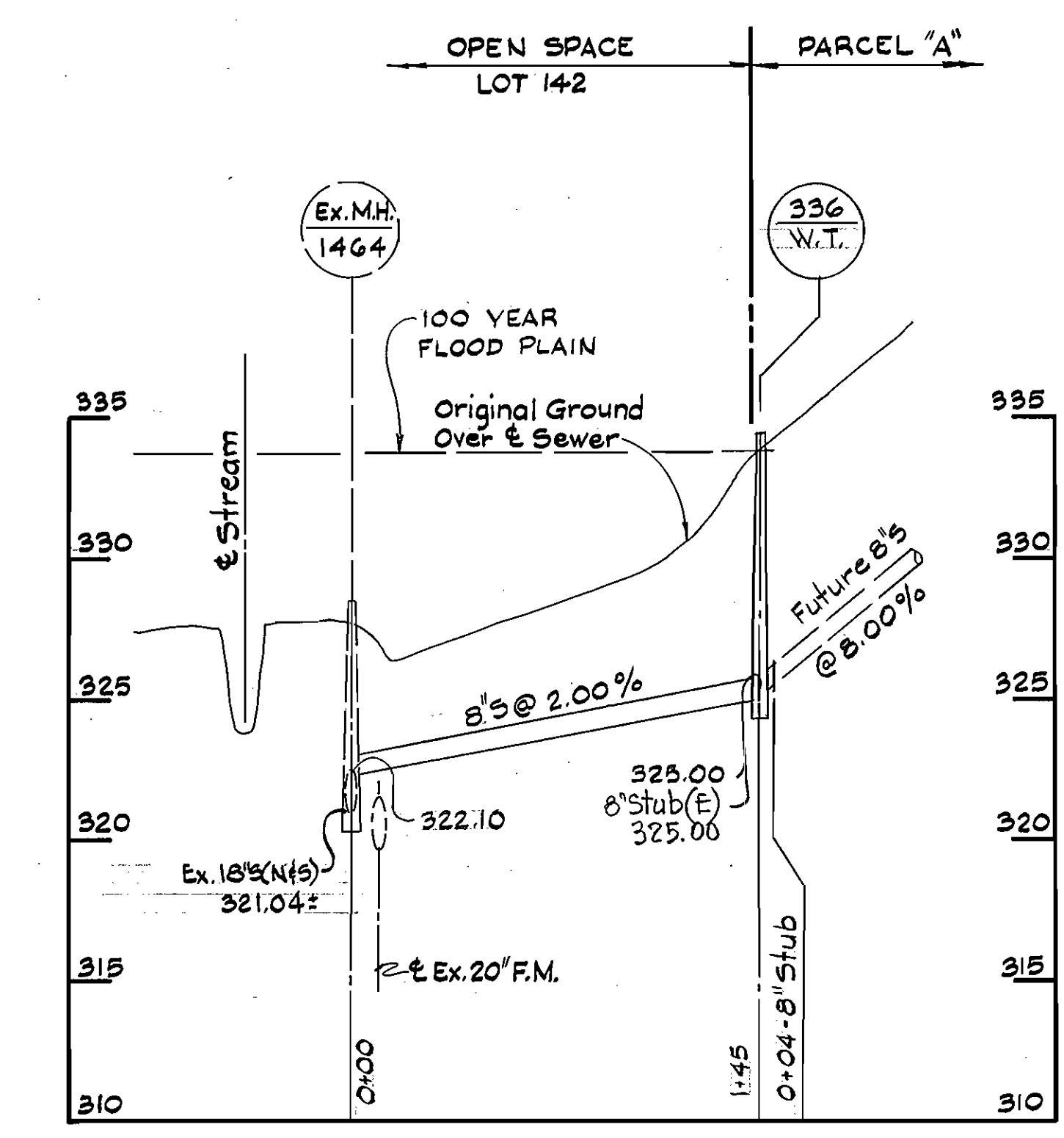
- B.M. #2 Elev. 359.97
Boat Spike in Gas and Electric Pole #390112,
Southwest of Intersection Columbia Road
and Old Annapolis Road.
- B.M. #A Elev. 341.46
Iron Pipe P.C. 279+55.01 Road Right-of-way
East Columbia Road.
- B.M. #B Elev. 344.15
Iron Pipe P.R.C. 265+50.80 Road Right-of-way
East Columbia Road.



PLANS
Scale: 1" = 50'



PROFILES
Scale: H: 1" = 50'
V: 1" = 5'



24-516,848
30-514,848
30-515,8435

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

Robert M. Reisinger
DIRECTOR OF PUBLIC WORKS - DATE 4-11-85

Robert M. Reisinger
CHIEF - BUREAU OF UTILITIES - DATE 4-11-85

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

Robert M. Reisinger
REGISTERED PROFESSIONAL ENGINEER & LAND SURVEYOR

DES: S.J.
DRN: M.T.K.
CHK: R.B.N.
DATE:

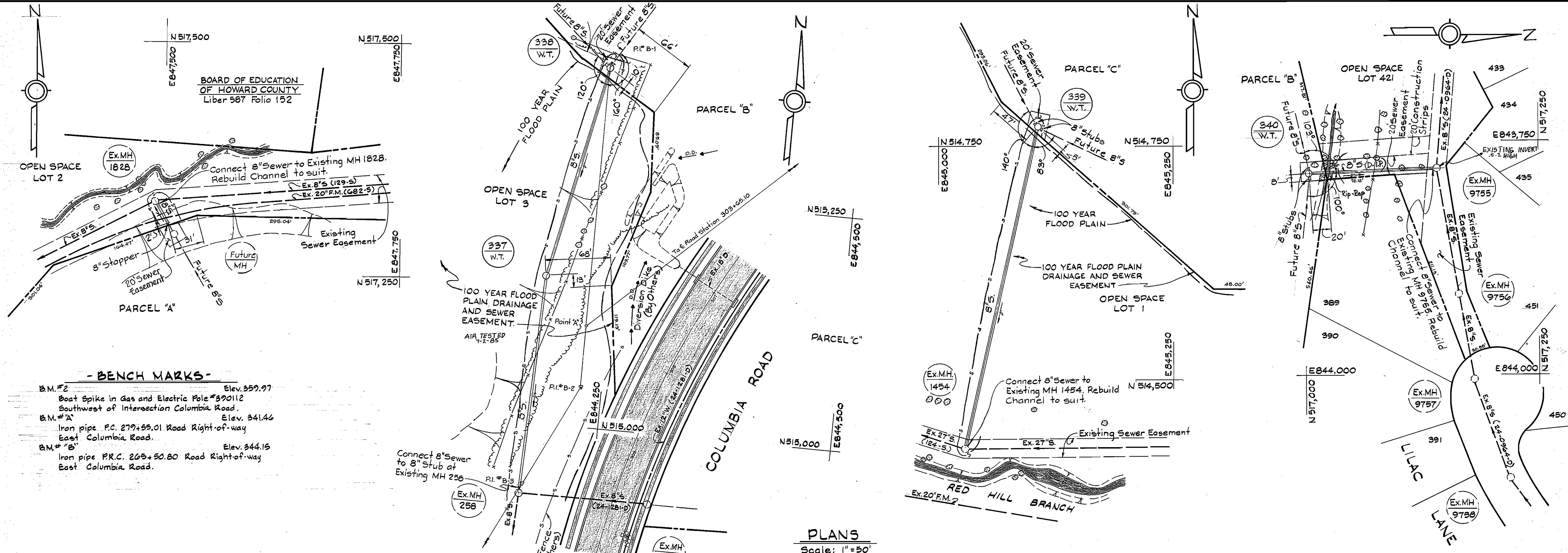
BY	NO	REVISION	DATE

PLANS AND PROFILES OF SEWER MAINS

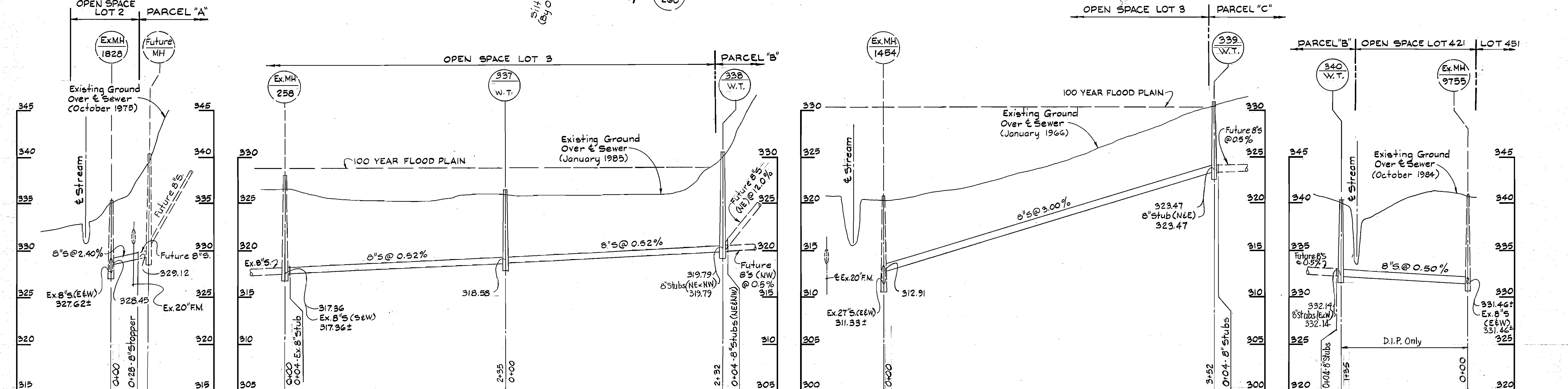
600' SCALE MAP NO. 24/30 BLOCK NO. 22/4,5

DORSEY HALL
SECTION 2 AREA 2
ELECTION DISTRICT NO. 2
CONTRACT NO. 20-1345-D

SCALE AS SHOWN
SHEET 2 OF 4



PLANS
Scale: 1" = 50'



PROFILES
Scale: H: 1" = 50'
V: 1" = 5'

24-517,845
24-517,848
30-514,846.5
20-515,845

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND
Robert M. Bevinger 4-11-85
CHIEF - BUREAU OF UTILITIES - DATE

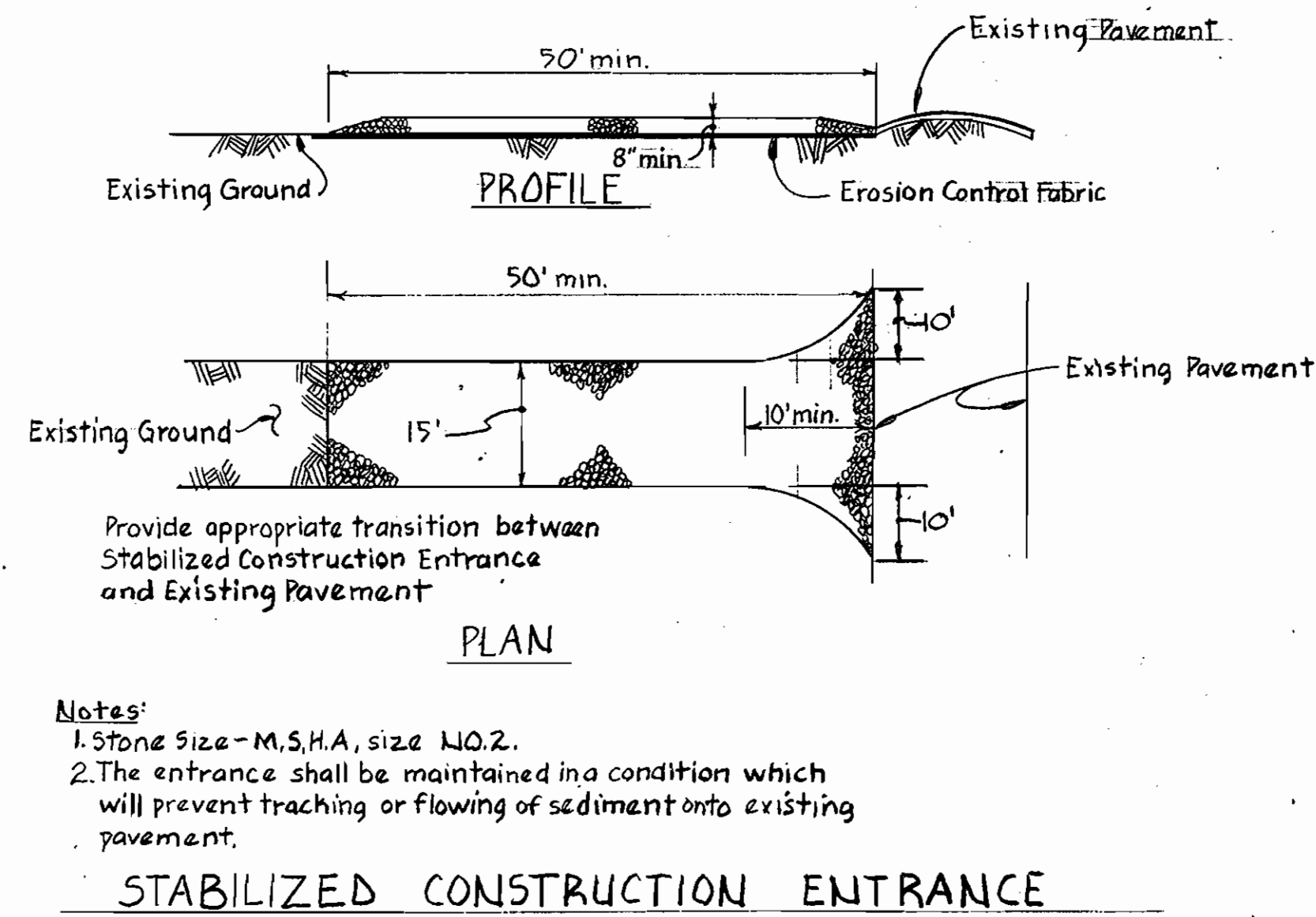
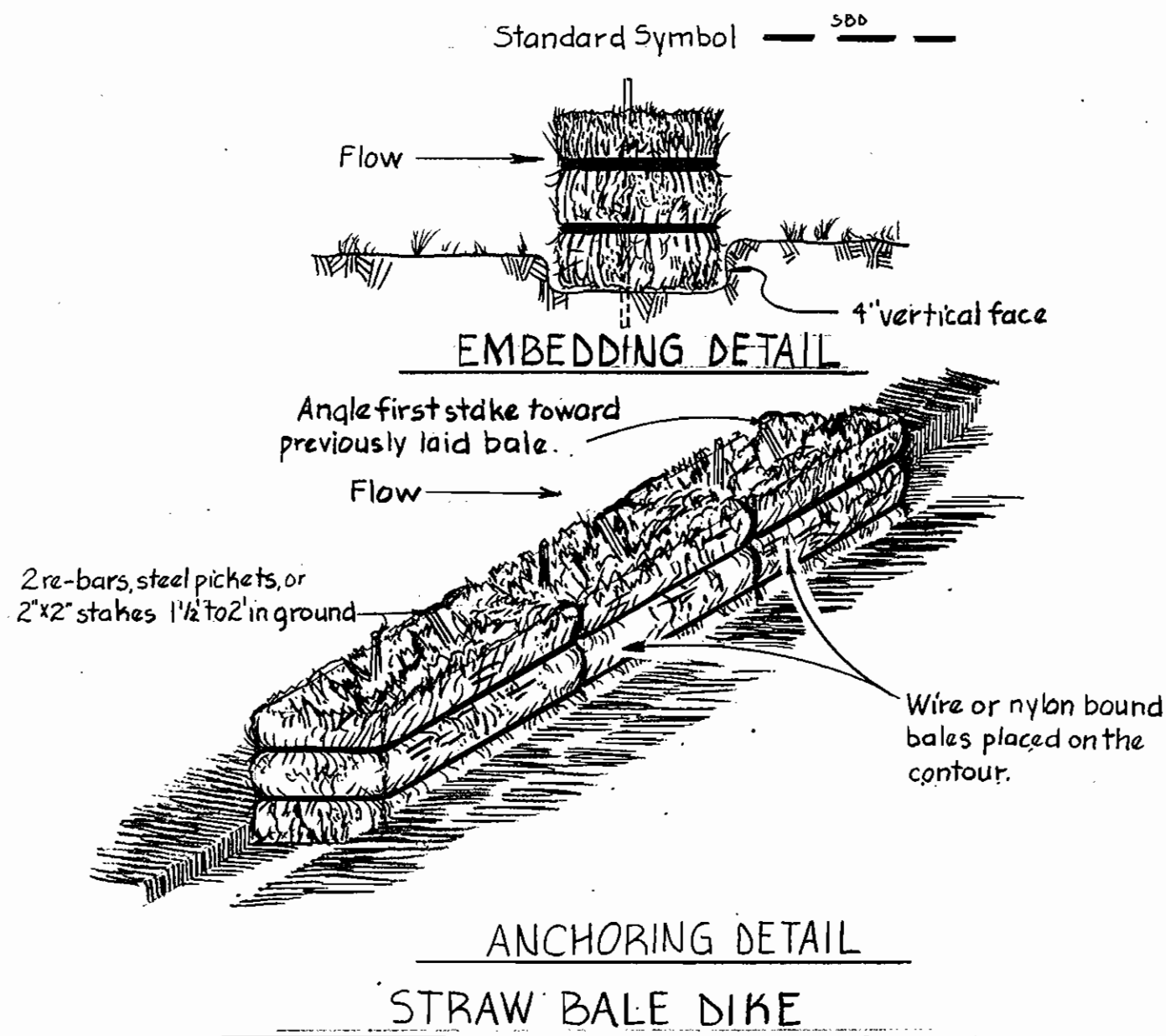
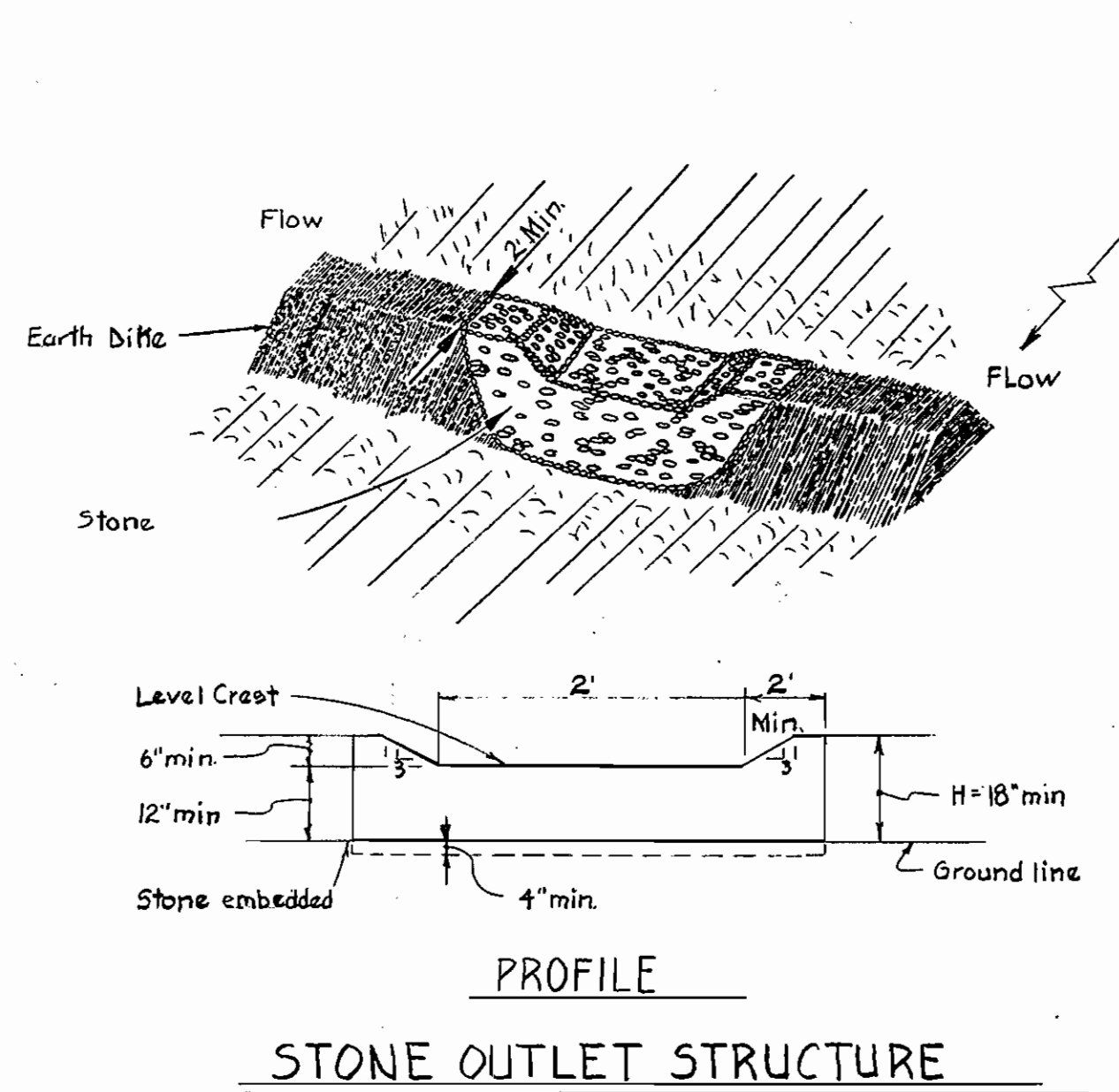
WHITMAN, REQUARDT AND ASSOCIATES ENGINEERS
2315 ST. PAUL ST.
BALTIMORE, MARYLAND
REGISTERED PROFESSIONAL ENGINEER & LAND SURVEYOR

DES: S.J.	
DRN: M.T.K.	
CHK: R.B.N.	
DATE:	
BY NO	REVISION
	DATE

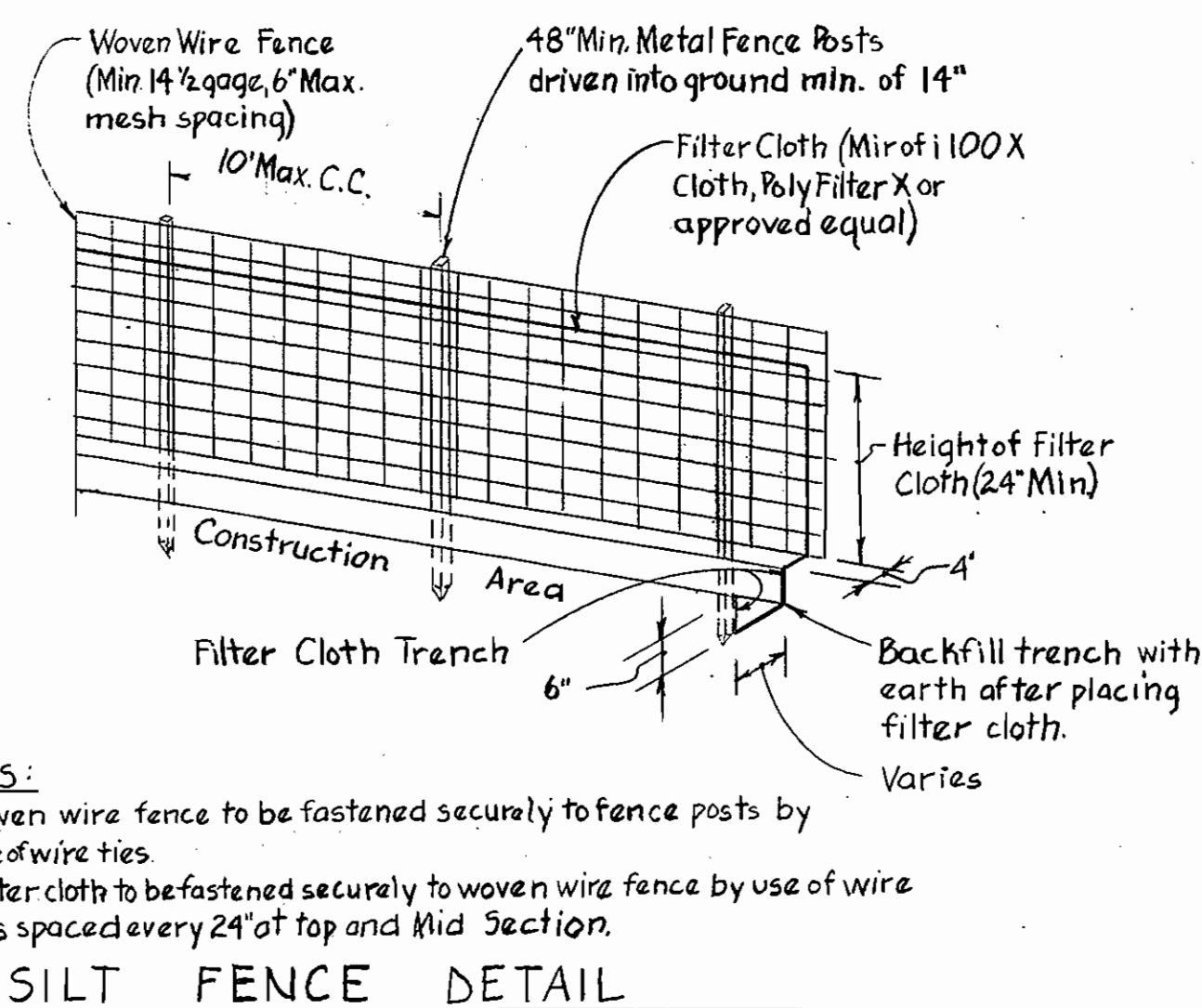
PLANS AND PROFILES OF SEWER MAINS
600' SCALE MAP NO. 24/30 BLOCK NO. 21, 22 / 3, 4

DORSEY HALL
SECTION 2 AREA 2
ELECTION DISTRICT NO. 2
CONTRACT NO. 20-1345-D

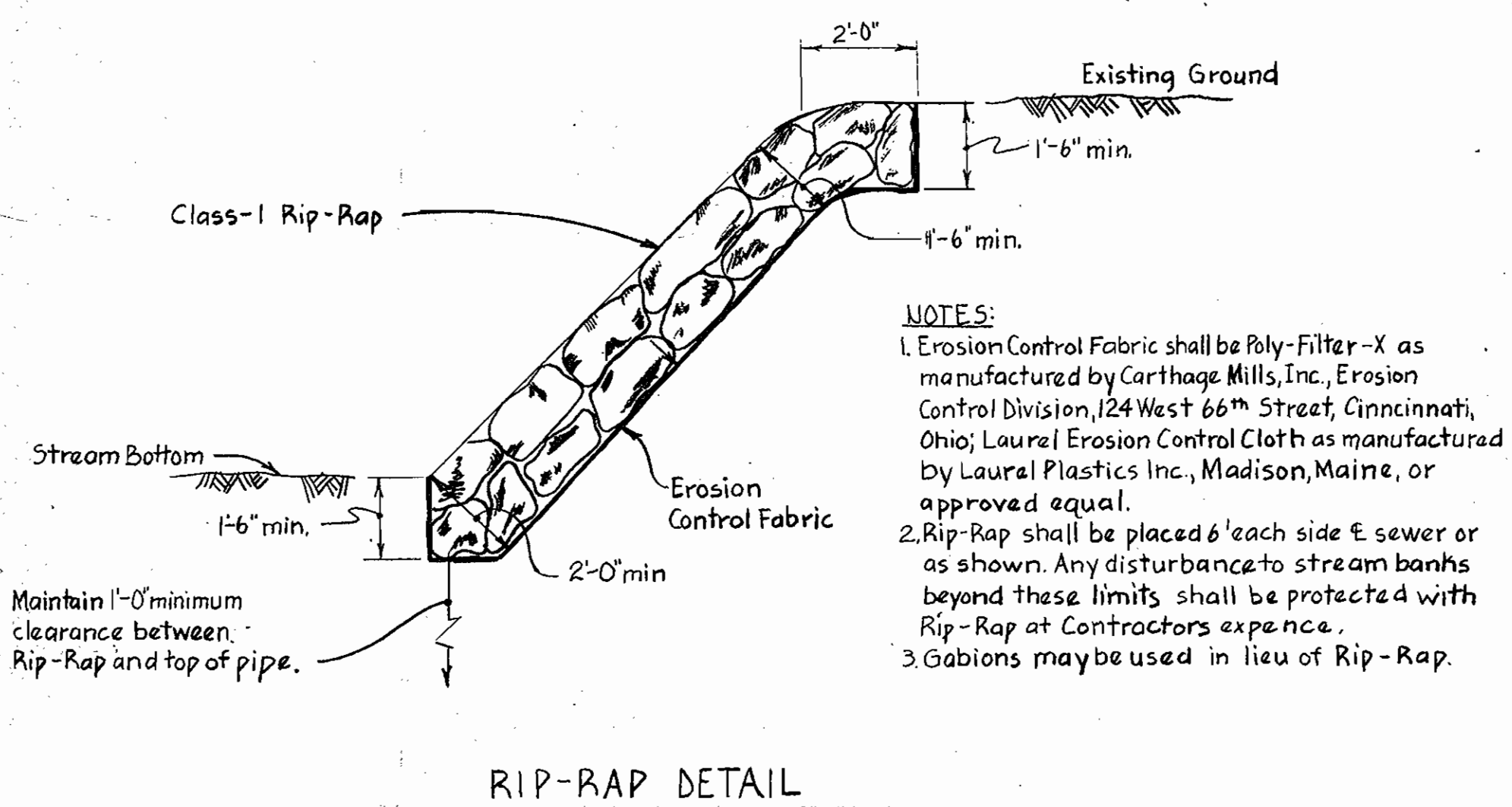
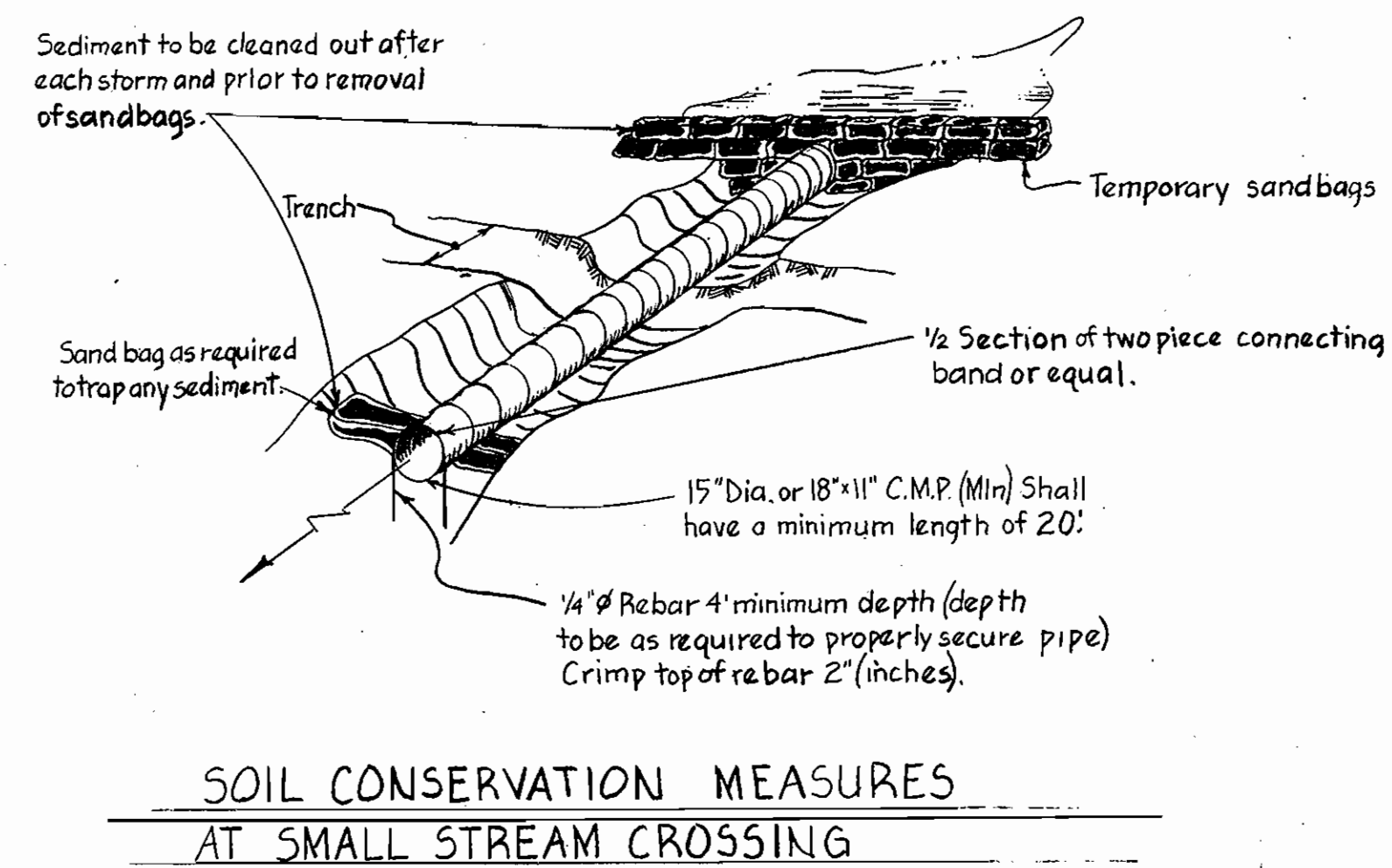
SCALE AS SHOWN
SHEET 3 OF 4



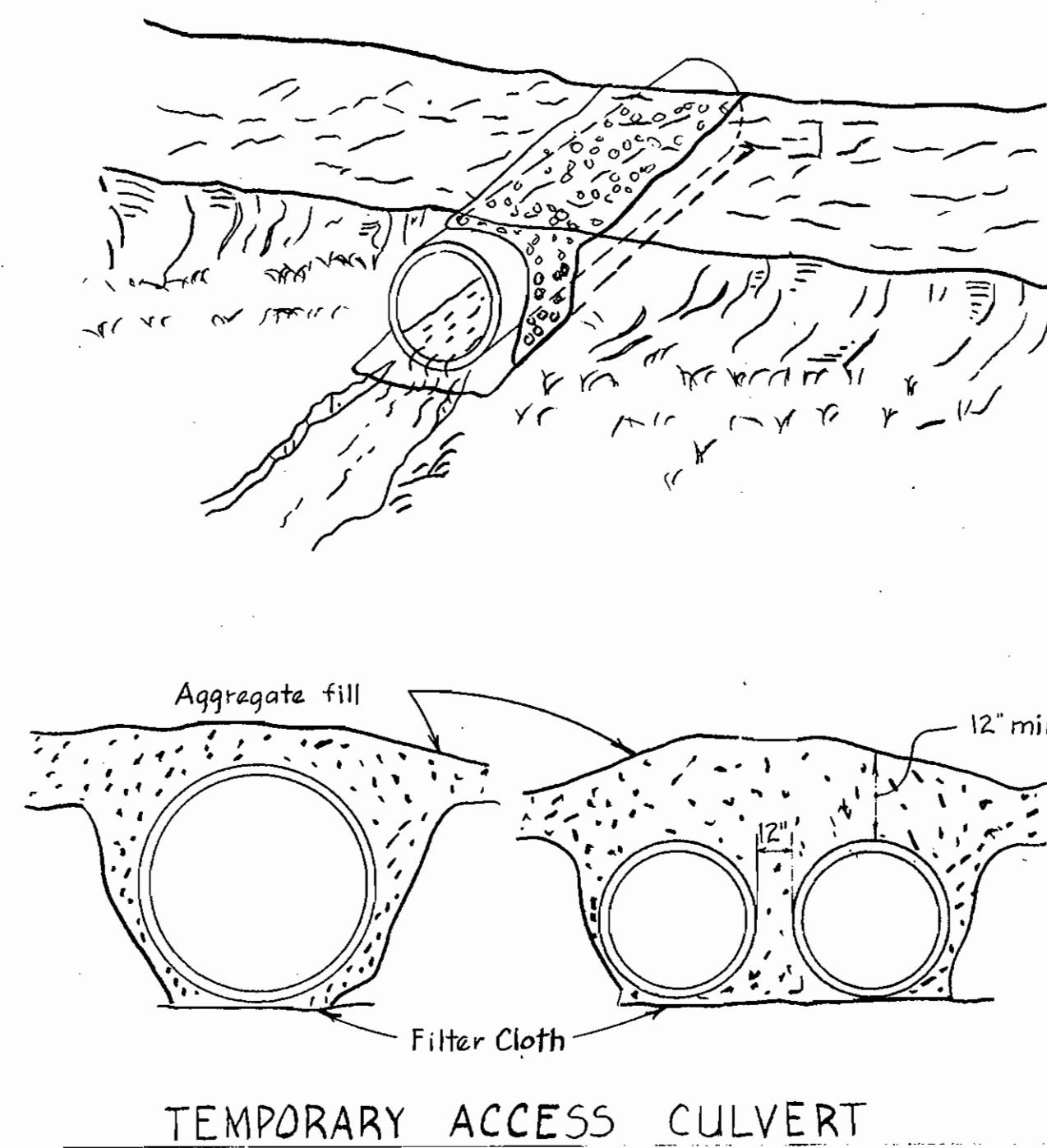
Notes:
 1. Stone size - M.S.H.A. size NO. 2.
 2. The entrance shall be maintained in a condition which will prevent tracking or flowing of sediment onto existing pavement.



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.



NOTES:
 1. Erosion Control Fabric shall be Poly-Filter-X as manufactured by Carthage Mills, Inc., Erosion Control Division, 124 West 66th 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 sewer or as shown. Any disturbance to stream banks beyond these limits shall be protected with Rip-Rap at Contractors expense.
 3. Gabions may be used in lieu of Rip-Rap.



DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND Robert M. Beisinger 4-11-85 DIRECTOR OF PUBLIC WORKS - DATE CHIEF - BUREAU OF UTILITIES - DATE		WHITMAN, REQUARDT AND ASSOCIATES ENGINEERS 2315 ST. PAUL ST. BALTIMORE, MARYLAND		DES: S.J. DRN: G.T.F. CHK: R.B.N. DATE:		SEDIMENT CONTROL DETAILS		DORSEY HALL SECTION 2 AREA 2 ELECTION DISTRICT NO. 2 CONTRACT NO. 20-1345-D		SCALE AS SHOWN SHEET 4 OF 4	
W.O. 40052		STATE OF MARYLAND REGISTERED PROFESSIONAL ENGINEER No. 1971 Kenneth A. McCord		BY NO. REVISION DATE		600' SCALE MAP NO. BLOCK NO.		March 18, 1985			