
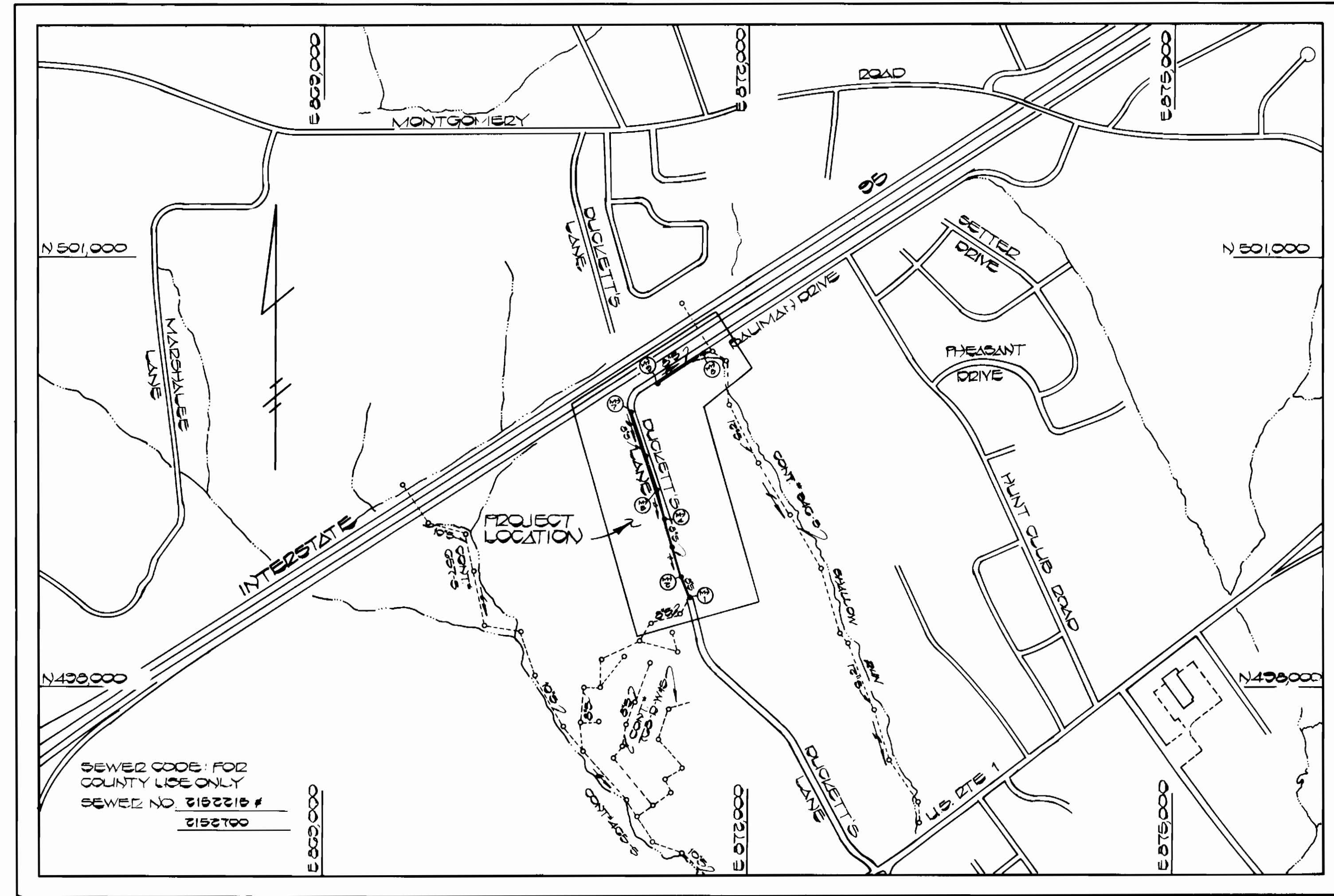


GENERAL NOTES

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 TO THE SATISFACTION OF THE ENGINEER AT THE CONTRACTOR'S EXPENSE.
2. ALL HORIZONTAL CONTROLS ARE BASED ON MARYLAND STATE COORDINATES.
3. ALL VERTICAL CONTROLS ARE BASED ON U.S.G.S. DATUM.
4. ALL PIPE ELEVATIONS SHOWN ARE INVERT ELEVATIONS.
5. 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.
6. CONTRACTOR SHALL NOTIFY THE FOLLOWING UTILITIES OR AGENCIES AT LEAST FIVE (5) WORKING DAYS BEFORE STARTING WORK SHOWN ON THESE PLANS:
 - BALTIMORE GAS & ELECTRIC COMPANY - CONTRACTOR SERVICES: 561-2585
 - BALTIMORE GAS & ELECTRIC COMPANY - UNDERGROUND DAMAGE CONTROL: 234-5621
 - BALTIMORE GAS & ELECTRIC COMPANY - TROUBLE SHOOTING: 298-9013
 - "MISS UTILITY": 1-559-0100
 - CHESAPEAKE & POTOMAC TELEPHONE COMPANY: 725-9976
 - BUREAU OF UTILITIES - HOWARD COUNTY: 992-2366
7. TREES & SHRUBS ARE TO BE PROTECTED FROM DAMAGE TO MAXIMUM EXTENT. TREES & SHRUBS LOCATED WITHIN THE CONSTRUCTION STRIP ARE NOT TO BE REMOVED OR DAMAGED BY THE CONTRACTOR.
8. 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.
9. 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.
10. ALL SEWER MAINS SHALL BE C.S.P.X., P.V.C., V.C.P.X. OR A.C.P. CLASS 2400 UNLESS OTHERWISE NOTED.
11. CONTRACTOR SHALL PROVIDE A JOINT IN ALL SEWER MAINS WITHIN 2'-0" OF EXTERIOR MANHOLE WALLS.
12. ALL MANHOLES SHALL BE 4'-0" INSIDE DIAMETER, UNLESS OTHERWISE NOTED.
13. MANHOLES SHOWN WITH 12" AND 16" WALLS ARE FOR BRICK MANHOLES ONLY.
14. FOR DETAILS NOT SHOWN ON THE DRAWINGS AND FOR MATERIALS AND CONSTRUCTION METHODS, USE HOWARD COUNTY DESIGN MANUAL, VOLUME III, STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION. THE CONTRACTOR SHALL HAVE A COPY OF VOLUME III ON THE JOB.
15. WHERE TEST PITS HAVE BEEN MADE ON EXISTING UTILITIES, THEY ARE NOTED BY THE SYMBOL  AT THE LOCATION OF 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.

QUANTITIES			
ITEM	EST'D	AS BUILT	SUPPLIER
8" SEWER	1075 L.F.		
6" SEWER	300 L.F.		
MANHOLES	9 EA.		



TYPE OF BUILDING - RESIDENTIAL
 NUMBER OF PARCELS - 10
 NUMBER OF SEWER HOUSE CONN. - 10
 DRAINAGE AREA - PATAPSCO

SCALE: 1" = 600'

CONTRACT NO. 10-1241 CAPITAL PROJECT S-6131 DUCKETT'S LANE SEWER MAIN EXTENSION HOWARD COUNTY, MARYLAND DEPARTMENT OF PUBLIC WORKS

NOTE:
 FOR ADDITIONAL SEDIMENT CONTROL REQUIREMENTS
 SEE NOTES #1 & 2, SHEET NO. 2
 SEDIMENT CONTROL MEASURES FOR THIS CONTRACT WILL
 BE IMPLEMENTED IN ACCORDANCE WITH SECTION 16, VOL. IV,
 HOWARD COUNTY DESIGN MANUAL

THIS DEVELOPMENT PLAN IS APPROVED FOR
 EROSION AND SEDIMENT CONTROL BY
 HOWARD SOIL CONSERVATION DISTRICT
 APPROVED: *Stephen A. Fisher* 10-22-84
 HOWARD SOIL CONSERVATION DISTRICT DATE

REVIEW FOR HOWARD COUNTY SOIL CONSERVATION
 DISTRICT AND MEETS TECHNICAL REQUIREMENTS
James M. Wilson 10/22/84
 U.S. SOIL CONSERVATION SERVICE DATE

DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND
 DIRECTOR OF PUBLIC WORKS: *James M. Wilson* 10-26-84
 CHIEF, BUREAU OF ENGINEERING: *Michael A. Fisher* 10-22-84
 CHIEF, BUREAU OF UTILITIES: *Robert M. Bennett* 10-25-84
 CHIEF, UTILITY DESIGN DIVISION: *Donald W. Bennett* 10-22-84

FISHER, COLLINS, AND CARTER, INC. CONSULTING ENGINEERS AND LAND SURVEYORS 8388 COURT AVENUE ELLICOTT CITY, MARYLAND 21043 TERRELL A. FISHER DATE: 5-10-84	DES. D.B.S. DRN. D.B.S. CHK. T.A.F. DATE: 5-10-84	TITLE SHEET	SCALE AS SHOWN SHEET 1 OF 3
DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND CAPITAL PROJECT NO. S6131 CONTRACT NO. 10-1241 FIRST ELECTION DISTRICT HOWARD COUNTY, MARYLAND		600' SCALE MAP NO. 37 BLOCK NO. 12	

BENCH MARKS

- B.M. #1 ELEV. 130.07
R.R. SPIKE SET IN G+E POLE #487002
30' EAST OF TRAVERSE STA. PI 'D-2'
- B.M. #2 ELEV. 207.10
R.R. SPIKE SET IN G+E POLE #457002
65' SOUTH OF TRAVERSE STA. PI 'D-3'
- B.M. #3 ELEV. 210.00
R.R. SPIKE SET IN G+E POLE #401700
106' SOUTHEAST OF TRAVERSE STA. PI 'D-5'
- B.M. #4 ELEV. 192.00
R.R. SPIKE SET IN 12" PIPE, 40' SOUTHEAST OF TRAVERSE STA. PI 'D-7'
- B.M. #5 ELEV. 189.70
R.R. SPIKE SET IN G+E POLE #10, 155' NORTHWEST OF TRAVERSE STA. PI 'D-8'

CONSTRUCTION STAKEOUT TABLE

M#	FROM	TO	BEARING	DISTANCE
M#1	300' FROM 'D-7'	TOWARDS 'D-8'		1.5' LEFT
M#2	395'	'D-7'	'D-8'	10.5' RIGHT
M#3	174'	'D-7'	'D-8'	12' RIGHT
M#4	191'	'D-6'	'D-7'	15' RIGHT
M#5	351'	'D-8'	'D-6'	4' RIGHT
M#6	104'	'D-5'	'D-6'	3' LEFT
M#7	271'	'D-4'	'D-5'	0'
M#8	193'	'D-3'	'D-1'	33' LEFT
M#9	100'	'D-2'	'D-3'	35' LEFT

NOTE: MINIMUM CELLAR ELEVATIONS ARE AT 50' BUILDING RESTRICTION SETBACK FROM DUCKETT'S LANE ROAD R/W AND 100' SETBACK FROM BAUMAN DRIVE ROAD R/W.

SEWER HOUSE CONNECTION

STATION	ELEVATION
M#3 TO M#4	
1+00.00	176.73
M#4 TO M#5	
0+50.00	152.70
1+15.00	152.40
1+50.00	154.31
M#5 TO M#6	
0+00.00	151.23
2+25.00	157.70
2+35.00	150.55
M#6 TO M#7	
2+30.00	157.40
3+14.00	200.00
M#7 TO M#8	
0+00.00	150.00
2+25.00	151.51
M#8 TO M#9	
0+00.00	150.17

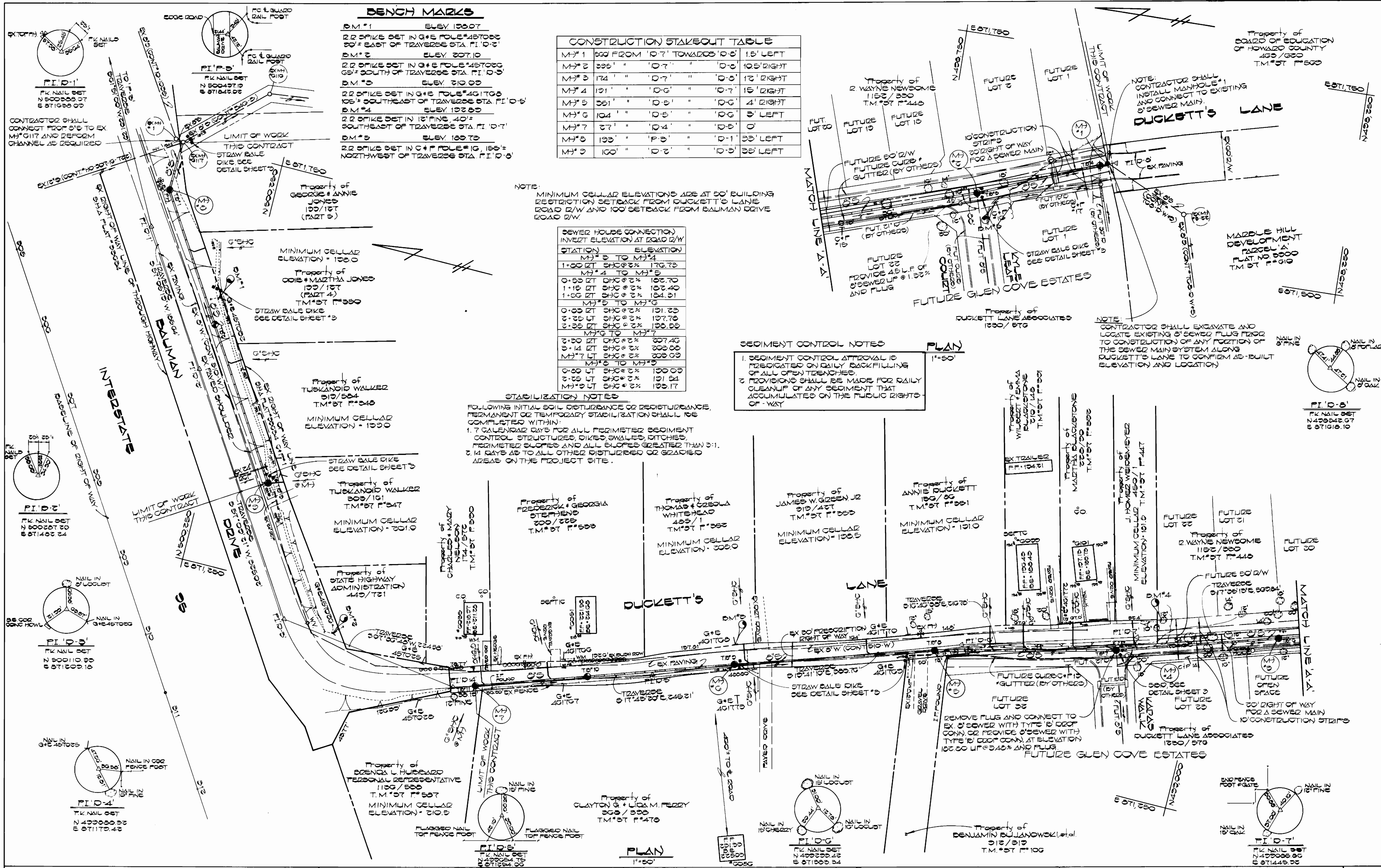
STABILIZATION NOTES

FOLLOWING INITIAL SOIL DISTURBANCE OR REDISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN:

- 7 CALENDAR DAYS FOR ALL PERIMETER SEDIMENT CONTROL STRUCTURES, DIKS, SWALES, DITCHES, PERIMETER SLOPES AND ALL SLOPES GREATER THAN 3:1.
- 14 DAYS AS TO ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE.

SEDIMENT CONTROL NOTES

- SEDIMENT CONTROL APPROVAL IS PRECIPITATED ON DAILY BACKFILLING OF ALL OPEN TRENCHES.
- PROVISIONS SHALL BE MADE FOR DAILY CLEANUP OF ANY SEDIMENT THAT ACCUMULATES ON THE PUBLIC RIGHTS-OF-WAY.



PLAN
1"=50'

PLAN
SEWER MAIN

DUCKETT'S LANE SEWER MAIN
CAPITAL PROJECT NO. S-6131
CONTRACT NO. 10-1241
FIRST ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

SCALE AS SHOWN
SHEET 2 OF 3

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

Director of Public Works: [Signature] DATE: 10-25-84
Chief, Bureau of Utilities: [Signature] DATE: 10-25-84

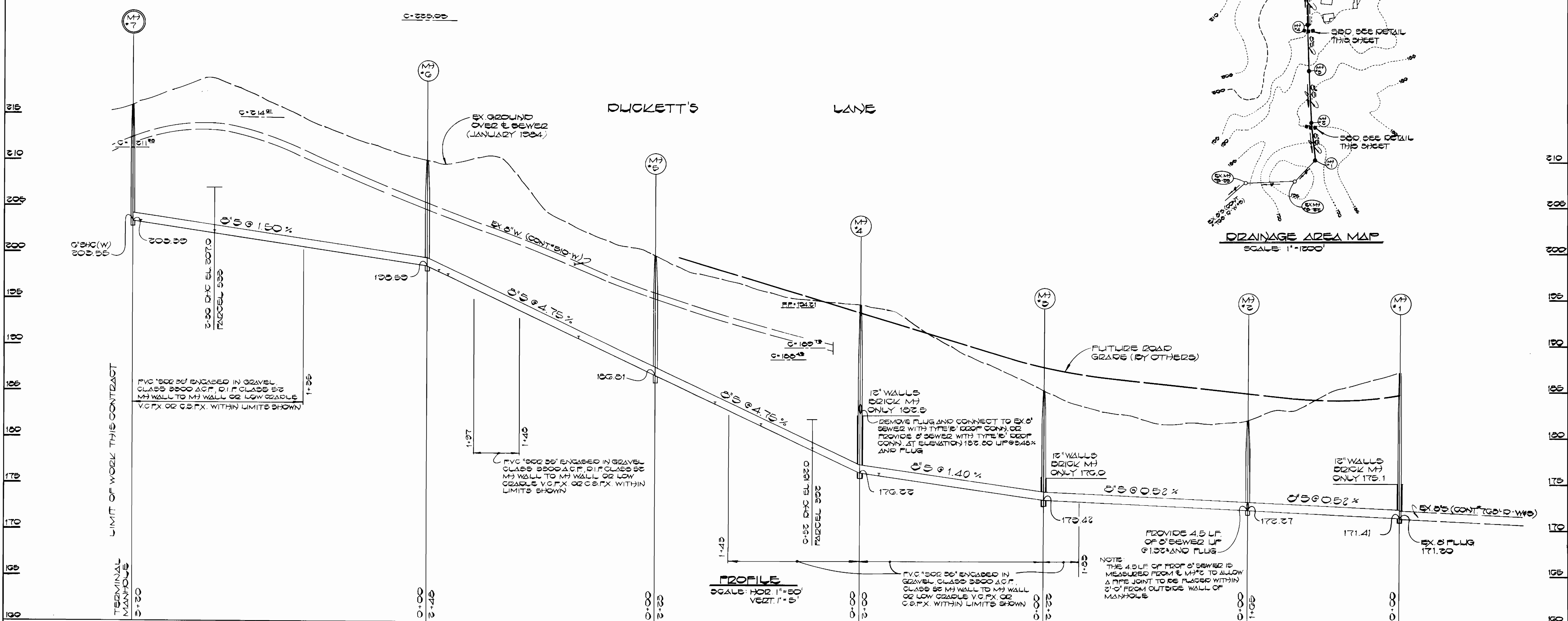
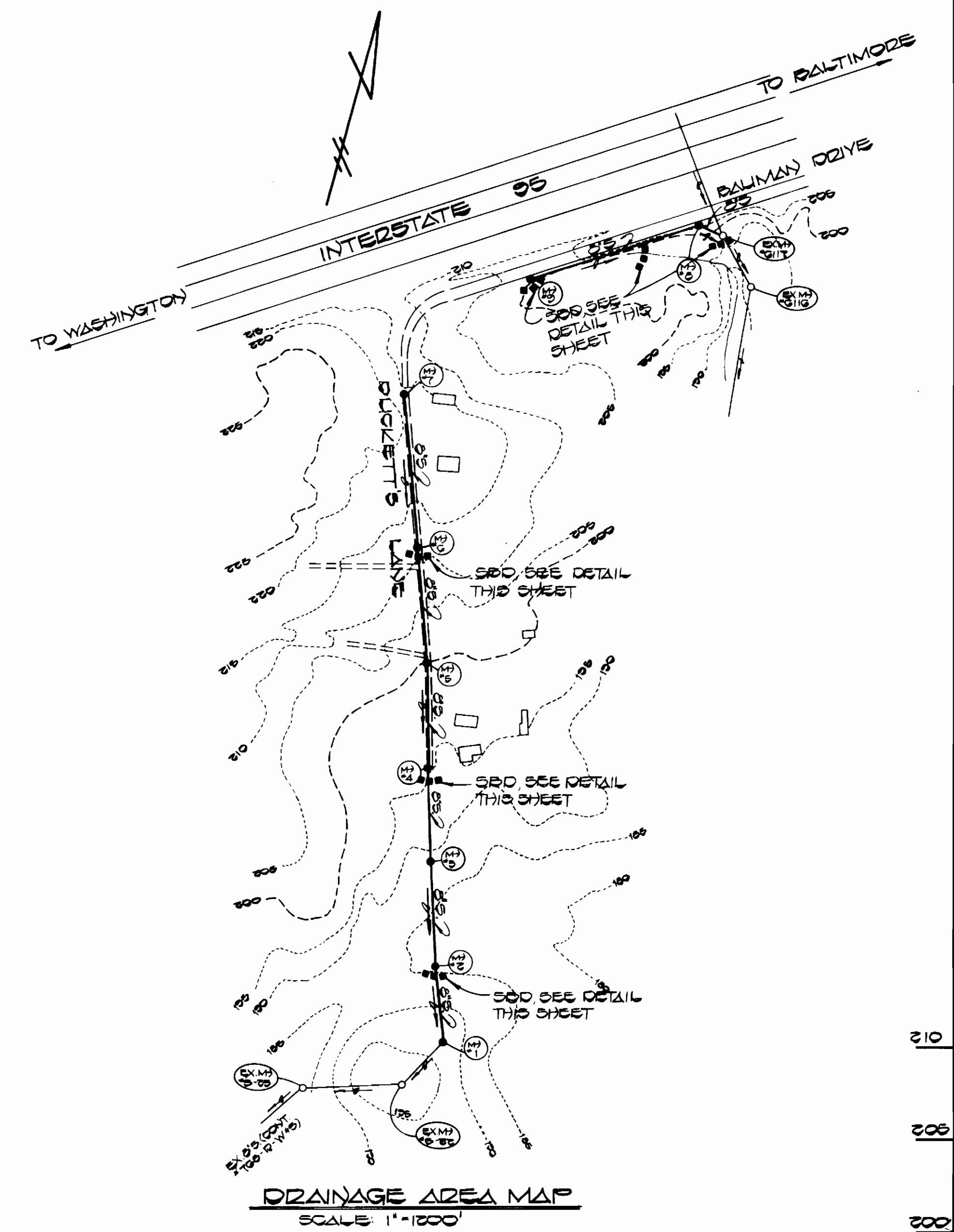
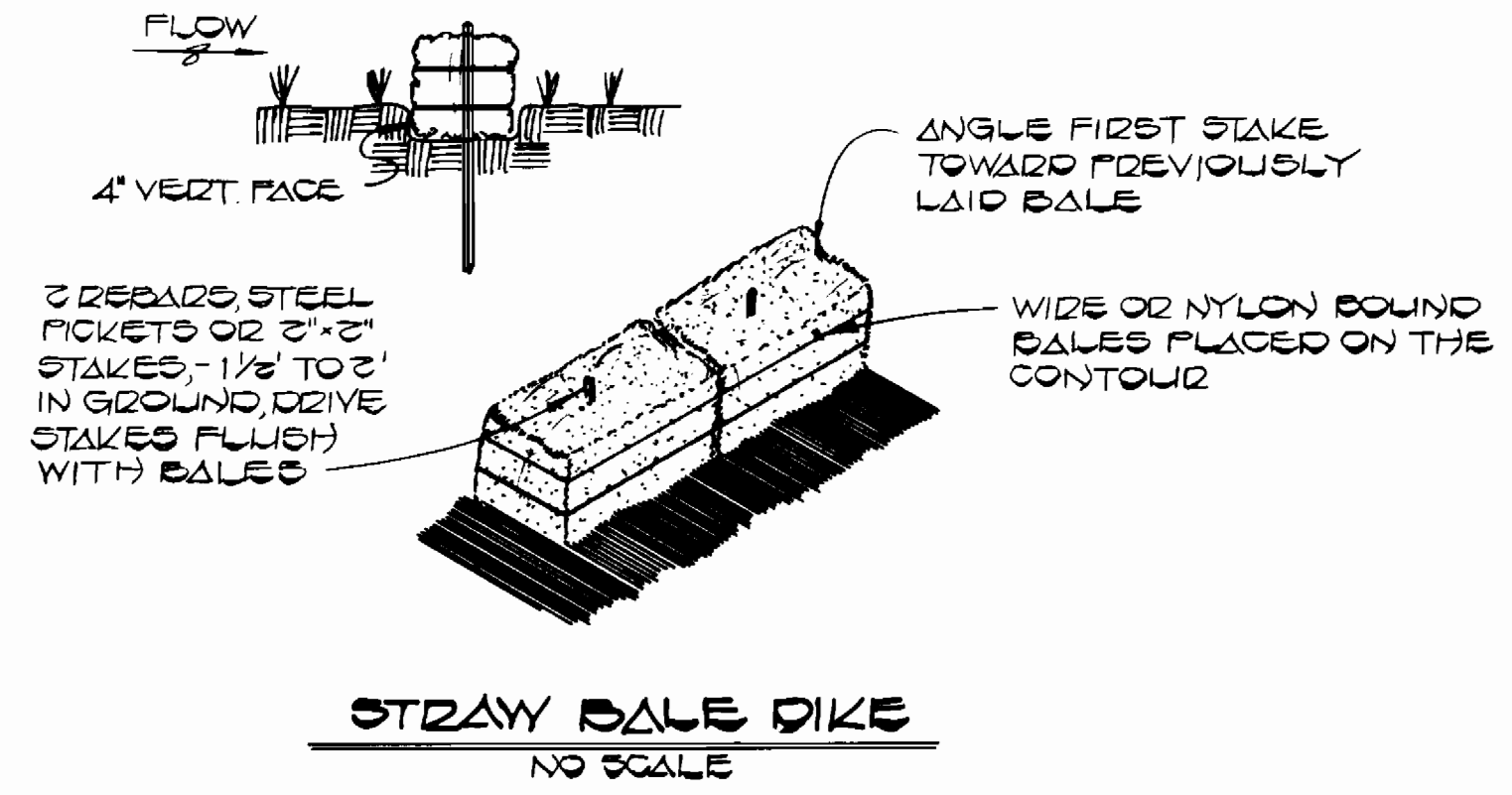
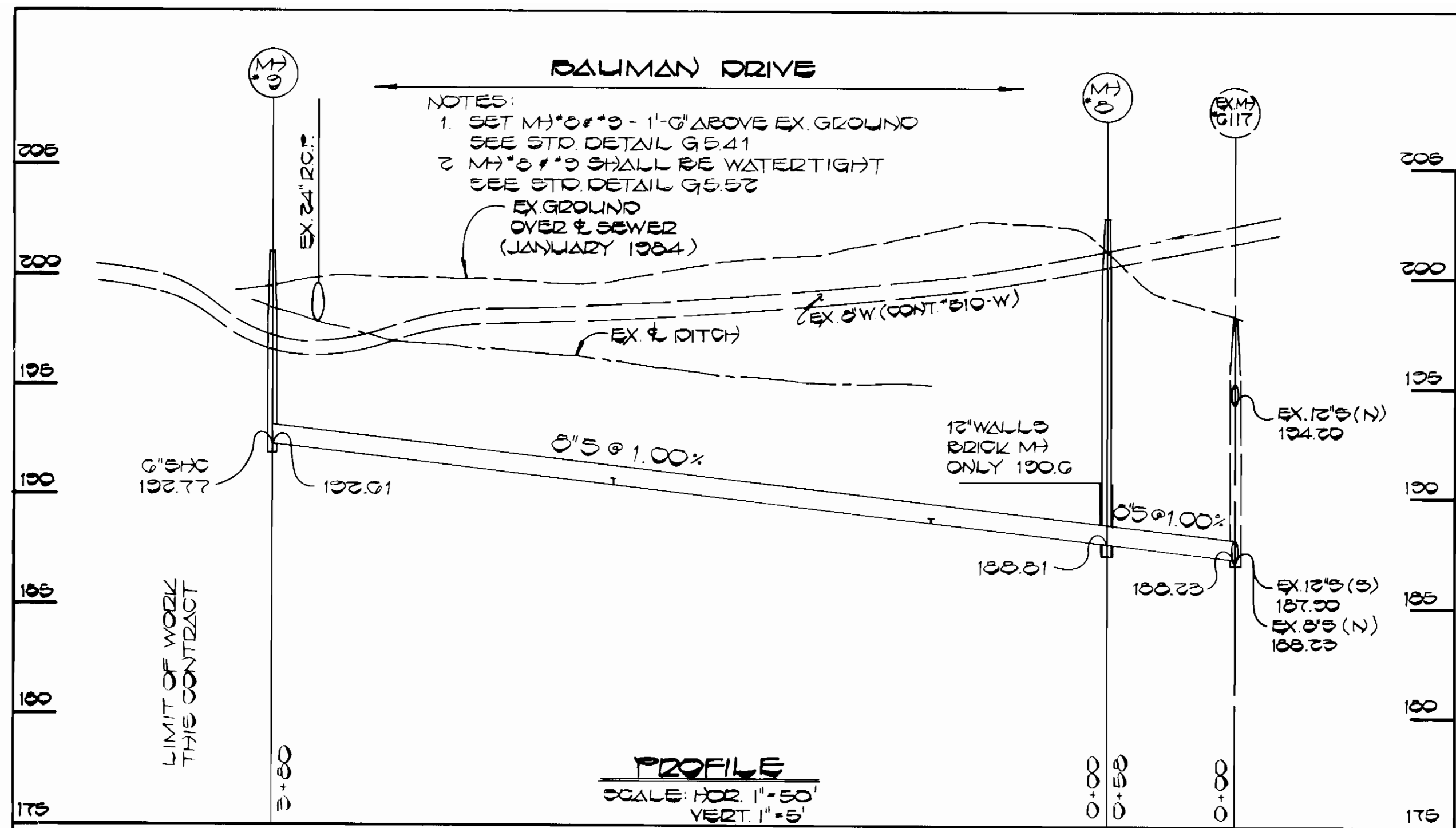
Chief, Bureau of Engineering: [Signature] DATE: 10-25-84
Chief, Utility Design Division: [Signature] DATE: 10-25-84

FISHER, COLLINS, AND CARTER, INC.
CONSULTING ENGINEERS AND LAND SURVEYORS
8388 COURT AVENUE
ELLCOTT CITY, MARYLAND 21043

TERRELL A. FISHER DATE: 5-10-84

DES: D.B.S.	
DRN: D.B.S.	
CHK: T.A.F.	
DATE: 5-10-84	BY: NO. REVISION

DATE: 6-00-84	MAP NO. 37	BLOCK NO. 12
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DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND

Walter L. Fisher 10-24-84
 DIRECTOR OF PUBLIC WORKS DATE

Robert M. Bennett 10-25-84
 CHIEF, BUREAU OF UTILITIES DATE

James H. Fisher 10-23-84
 CHIEF, UTILITY DESIGN DIVISION DATE

FISHER, COLLINS, AND CARTER, INC.
 CONSULTING ENGINEERS AND LAND SURVEYORS
 8388 COURT AVENUE
 ELLICOTT CITY, MARYLAND 21043

Terrell A. Fisher
 TERRELL A. FISHER DATE

DFS: D.B.S.	
DRN: D.B.S.	
CHK: T.A.F.	
DATE: 8-10-84	
BY: NO.	
REVISION	
DATE	

PROFILES AND DETAILS
SEWER MAINS

600 SCALE MAP NO. 37 BLOCK NO. 12

DUCKETT'S LANE SEWER MAIN
 CAPITAL PROJECT NO. S-6131
 CONTRACT NO. 10-1241
 FIRST ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND

SCALE AS SHOWN
 SHEET 2 OF 3