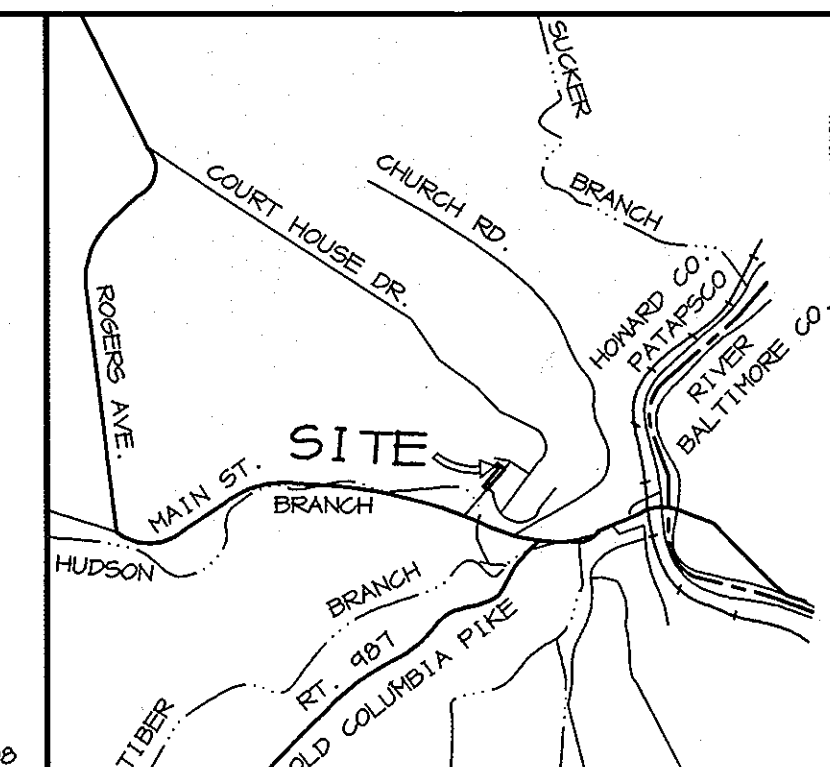


SHEET INDEX	
NO	DESCRIPTION
1	PLAN AND TITLE SHEET
2	PROFILE AND DETAIL SHEET

# DRAINAGE IMPROVEMENTS STRAWBERRY LANE/COURT AVENUE ELLCOTT CITY

RESTORATION SCHEDULE		
PIPE RUN	STATIONING	COMMENT
1-1 TO 5-1	0+00 TO 0+46	DRIVEWAY PAVING
5-1 TO 1-2	0+00 TO 0+88	DRIVEWAY PAVING
1-2 TO 1-3	0+00 TO 0+81	ECM
1-3 TO H-1	0+00 TO 0+24	ECM



**BENCH MARKS**

252P01	N 582,464.85	E 1,370,946.53	EL. 128.08
252E01	N 583,271.58	E 1,370,518.54	EL. 125.87

**VICINITY MAP**  
SCALE: 1"=2000'

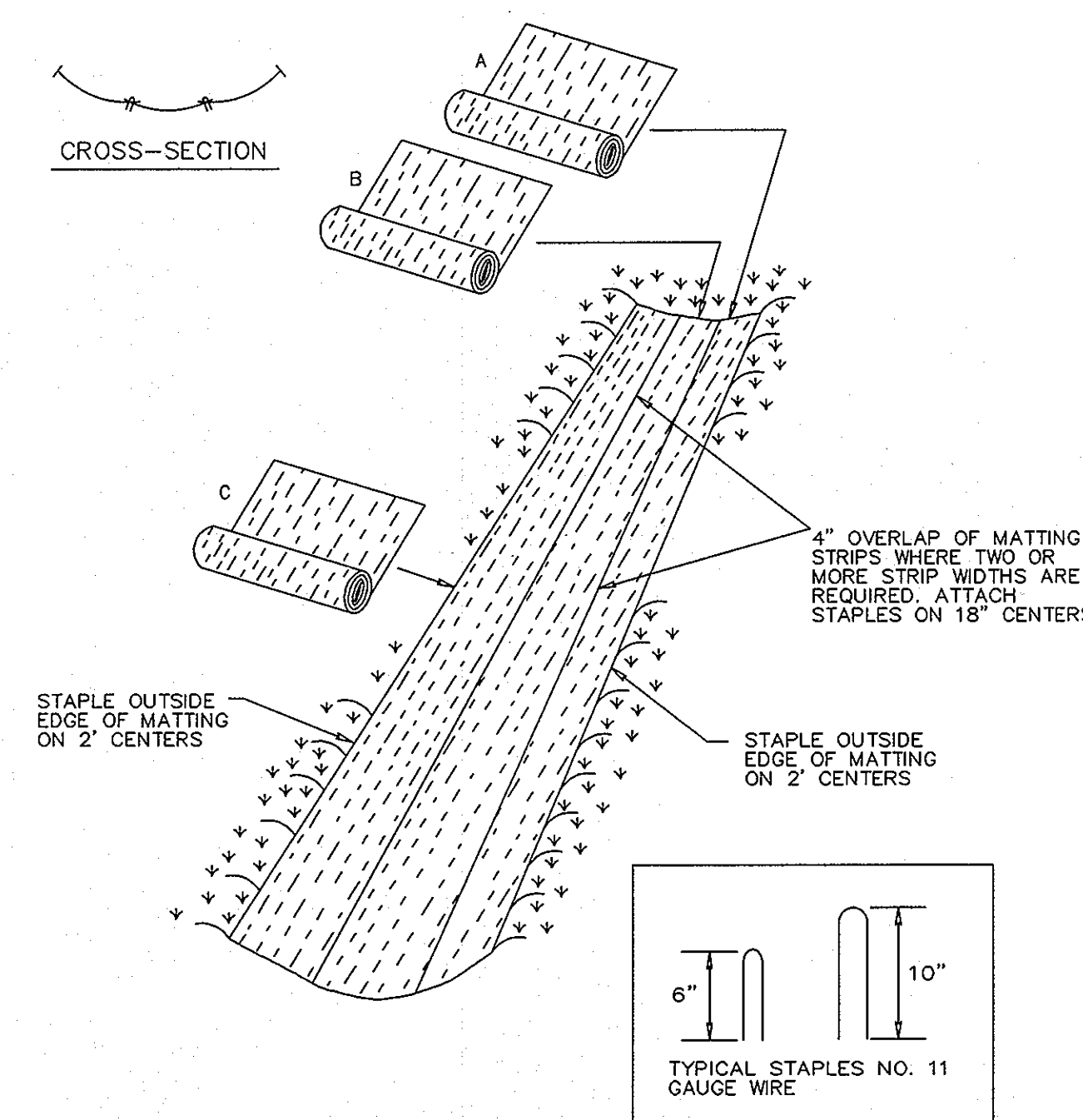
### EROSION CONTROL MATTING

#### Construction Specifications

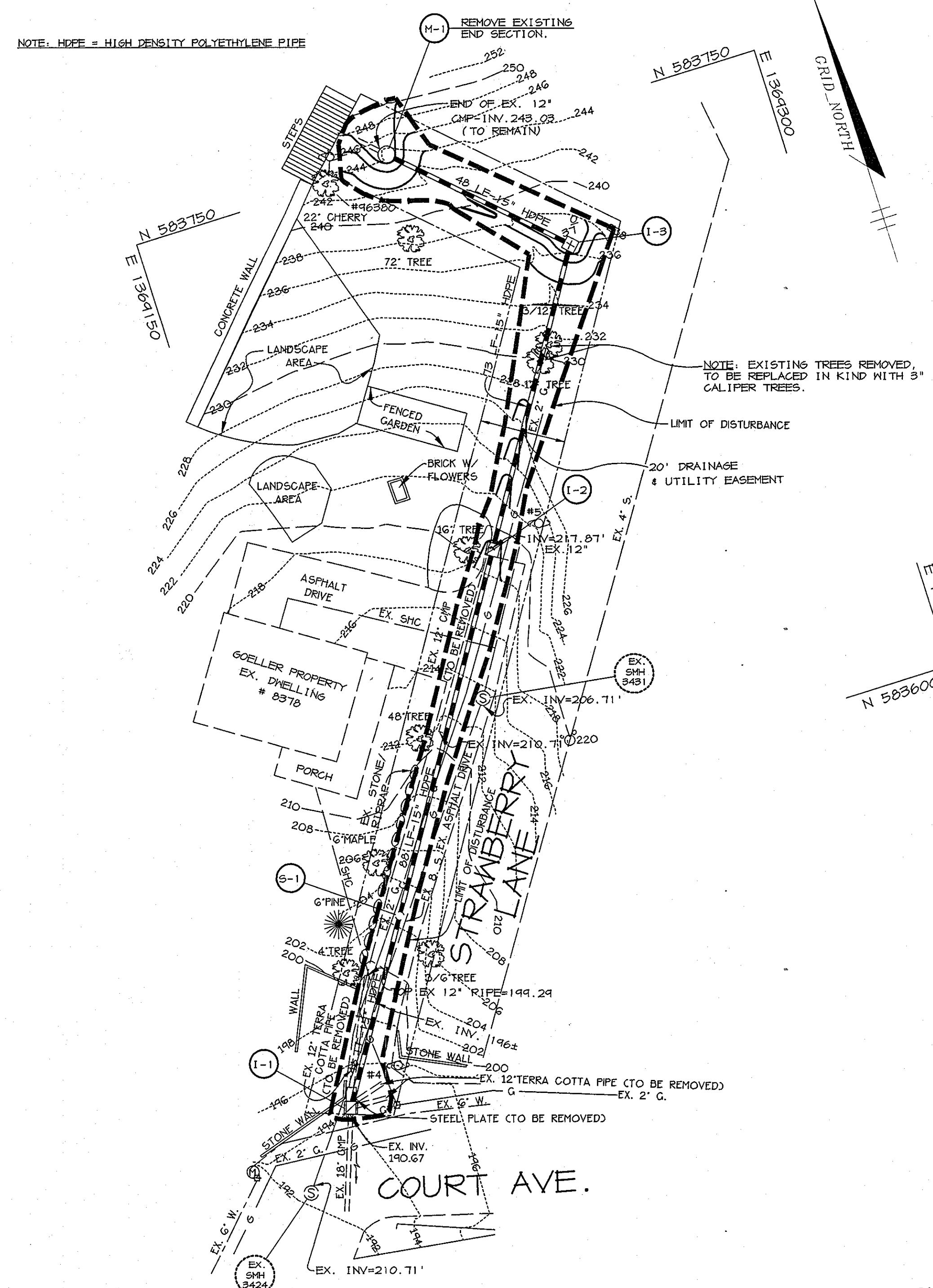
- Key-in the matting by placing the top ends of the matting in a narrow trench, 6" in depth. Backfill the trench and tamp firmly to conform to the channel cross-section. Secure with a row of staples about 4' down slope from the trench. Spacing between staples is 6'.
  - Staple the 4' overlap in the channel center using an 18" spacing between staples.
  - Before stapling the outer edges of the matting, make sure the matting is smooth and in firm contact with the soil.
  - Staples shall be placed 2' apart with 4 rows for each strip, 2 outer rows, and 2 alternating rows down the center.
  - Where one roll of matting ends and another begins, the end of the top strip shall overlap the upper end of the lower strip by 4', shiplap fashion. Reinforce the overlap with a double row of staples spaced 6' apart in a staggered pattern on either side.
  - The discharge end of the matting liner should be similarly secured with 2 double rows of staples.
- Note: If flow will enter from the edge of the matting then the area effected by the flow must be keyed-in.

U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE PAGE 6-22-2A MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION

### DETAIL 30 - EROSION CONTROL MATTING



U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE PAGE 6-22-2 MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION



### PLAN VIEW

SCALE: HOR. - 1"=20'

### QUANTITY BOX

TYPE	QUANTITY
15" HDPE	239 LF.

### GENERAL NOTES

- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST STANDARDS AND SPECIFICATIONS OF HOWARD COUNTY.
- THE CONTRACTOR SHALL NOTIFY THE DEPARTMENT OF PUBLIC WORKS/BUREAU OF ENGINEERING/CONSTRUCTION INSPECTION DIVISION AT (410) 319-1880 AT LEAST FIVE (5) WORKING DAYS PRIOR TO THE START OF WORK.
- THE CONTRACTOR SHALL NOTIFY "MISS UTILITY" AT 1-800-257-TTTT AT LEAST 48 HOURS PRIOR TO ANY EXCAVATION WORK BEING DONE.
- THE EXISTING TOPOGRAPHY IS TAKEN FROM FIELD RUN SURVEY WITH MAXIMUM TWO FOOT CONTOUR INTERVALS PREPARED BY RIEMER MUEGGE & ASSOC. DATED DECEMBER, 1998.
- THE COORDINATES SHOWN HEREON ARE BASED UPON THE HOWARD COUNTY GEODETIC CONTROL WHICH IS BASED UPON THE MARYLAND STATE PLANE COORDINATE SYSTEM.
- THERE IS NO PROPOSED WATER FOR THIS PROJECT.
- THERE IS NO PROPOSED SEWER FOR THIS PROJECT.
- APPROXIMATE LOCATION OF EXISTING UTILITIES ARE SHOWN. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT THE EXISTING UTILITIES AND MAINTAIN UNINTERRUPTED SERVICE. ANY DAMAGE INCURRED DUE TO CONTRACTOR'S OPERATION SHALL BE REPAIRED IMMEDIATELY AT THE CONTRACTOR'S EXPENSE. EXISTING UTILITIES ARE SHOWN BASED ON THE BEST AVAILABLE INFORMATION.
- THERE IS NO 100-YEAR FLOODPLAIN ON SITE.
- SUBJECT PROPERTY ZONED HO 4 R-VH PER 10-18-93 COMPREHENSIVE ZONING PLAN.
- THE CONTRACTOR SHALL TEST PIT EXISTING UTILITIES AT LEAST (5) DAYS BEFORE STARTING WORK SHOWN ON THESE DRAWINGS.
- CONTRACTOR IS SOLELY RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, PROCEDURES, AND SAFETY PRECAUTIONS AND PROGRAMS.
- ALL STORM DRAIN PIPE BEDDING SHALL BE CLASS 'C' AS SHOWN IN FIG. 11.4, VOLUME 1 OF HOWARD COUNTY DESIGN MANUAL UNLESS OTHERWISE NOTED.
- ALL INLETS SHALL BE CONSTRUCTED IN ACCORDANCE WITH HOWARD COUNTY STANDARDS.
- ALL PIPE ELEVATIONS SHOWN ARE INVERT ELEVATIONS.
- STORM DRAIN TRENCHES WITHIN ROAD RIGHT OF WAY SHALL BE BACKFILLED AND COMPACTED IN ACCORDANCE WITH THE HOWARD COUNTY DESIGN MANUAL, VOLUME IV, I.E., STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION, LATEST AMENDMENTS.
- PROFILES STATIONS SHALL BE ADJUSTED AS NECESSARY TO CONFORM TO PLAN DIMENSIONS.
- ALL FILL AREAS WITHIN ROADWAY AND UNDER STRUCTURES TO BE COMPACTED TO A MINIMUM OF 95% COMPACTION OF ASHTO T100.
- THE DISTURBED AREA AND DISTURBED EARTH WORK IS LESS THAN 5000 SF AND 100 CUBIC YARDS, RESPECTIVELY. THEREFORE, A SEDIMENT CONTROL PLAN IS NOT REQUIRED FOR THIS PROJECT.
- CONTRACTOR SHALL ONLY EXCAVATE THAT AMOUNT OF PIPE THAT CAN BE INSTALLED, BACKFILLED AND STABILIZED THE SAME DAY.

### PERMANENT SEEDING NOTES

Apply to graded or cleared areas not subject to immediate further disturbance where a permanent long-lived vegetative cover is needed.

**Seeded Preparation** - Loosen upper three inches of soil by raking, discing or other acceptable means before seeding, if not previously loosened.

**Soil Amendments** - In lieu of soil test recommendations, use one of the following schedules:

- Preferred** - Apply 2 tons per acre dolomitic limestone (42 lbs. per 1000 sq.ft.) and 600 lbs. per acre 10-10-10 fertilizer (14 lbs. per 1000 sq.ft.) before seeding. Harrow or disc into upper three inches of soil. At time of seeding, apply 400 lbs. per acre 30-0-0 ureaform fertilizer (4 lbs. per 1000 sq.ft.).
- Acceptable** - Apply 2 tons per acre dolomitic limestone (42 lbs. per 1000 sq.ft.) and 1000 lbs. per acre 10-10-10 fertilizer (23 lbs. per 1000 sq.ft.) before seeding. Harrow or disc into upper three inches of soil.

**Seeding** - For the period March 1 thru April 30 and from August 1 thru October 15, seed with 60 lbs. per acre (1.4 lbs. per 1000 sq.ft.) of Kentucky 31 Tall Fescue. For the period May 1 thru July 31, seed with 60 lbs. Kentucky 31 Tall Fescue per acre and 2 lbs. per acre (0.05 lbs. per 1000 sq.ft.) of weeping lovegrass. During the period October 16 thru February 28, protect site by one of the following options:

- 2 tons per acre of well-anchored mulch straw and seed as soon as possible in the spring.
- Use sod.
- Seed with 60 lbs. per acre Kentucky 31 Tall Fescue and mulch with 2 tons per acre well anchored straw.

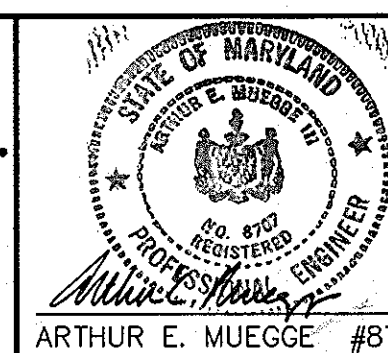
**Mulching** - Apply 1-1/2 to 2 tons per acre (70 to 90 lbs. per 1000 sq.ft.) of unrotted small grain straw immediately after seeding. Anchor mulch immediately after application using mulch anchoring tool or 210 gal. per acre (5 gal. per 1000 sq.ft.) of emulsified asphalt on flat areas. On slopes, 8 ft. or higher, use 347 gal. per acre (8 gal. per 1000 sq.ft.) for anchoring.

**Maintenance** - Inspect all seeded areas and make needed repairs, replacements and reseeding.

### DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND

Director of Public Works: *[Signature]* 3/25/99  
 Chief, Bureau of Engineering: *[Signature]* 3/19/99  
 Chief, Division of Transportation Projects and Watershed Management: *[Signature]* 3/18/99  
 Chief, Bureau of Highways: *[Signature]* 3/19/99

**RIEMER MUEGGE & ASSOCIATES, INC.**  
 ENGINEERING • ENVIRONMENTAL SERVICES • PLANNING • SURVEYING  
 8818 Centre Park Drive, Columbia, Maryland 21045  
 tel 410.997.8900 fax 410.997.9282  
 98373



DES: CJR					
DRN: DRD					
CHK: AEM					
DATE: 3/17/99	BY NO.	REVISION	DATE		

### PLAN AND PROFILE

600' SCALE MAP NO. 17 BLOCK NO. 22

### DRAINAGE IMPROVEMENTS STRAWBERRY LANE/COURT AVENUE 2nd ELECTION DISTRICT HOWARD COUNTY, MARYLAND CAPITAL PROJECT No.D-1118-TT

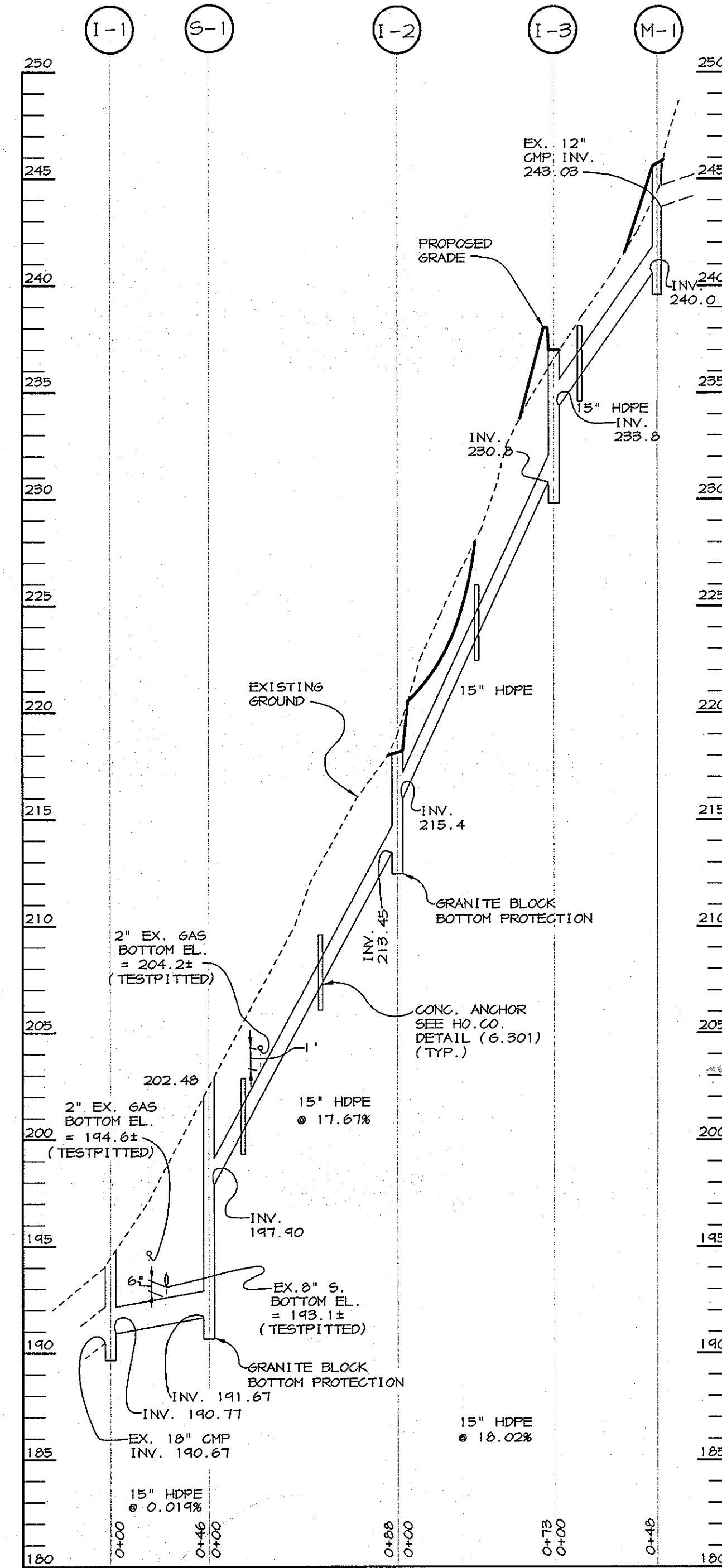
SCALE: AS SHOWN

SHEET 1 OF 2

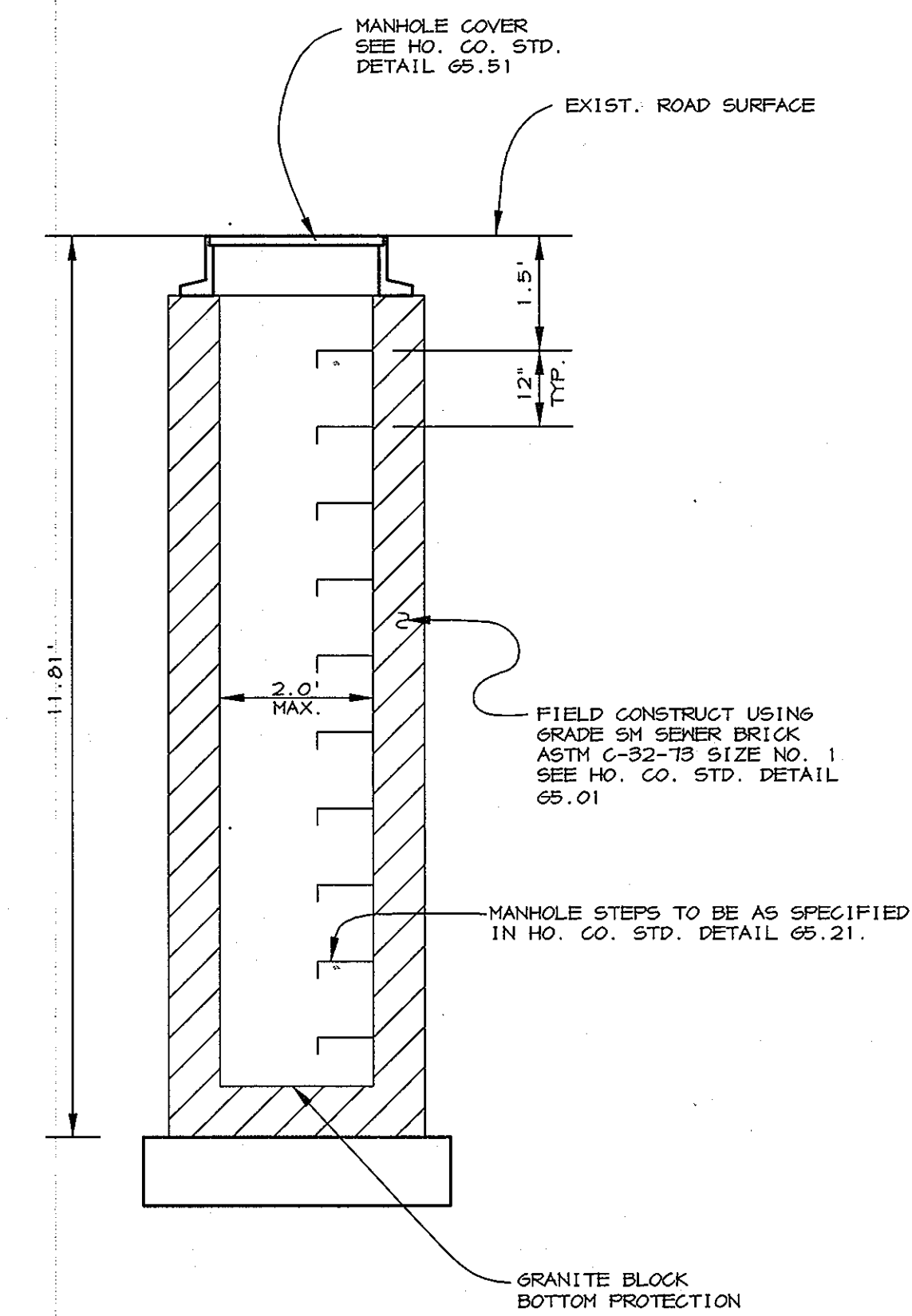
**STRUCTURE SCHEDULE**

STRUCTURE	TYPE	LOCATION*	INV. IN	INV. OUT	TOP	REMARKS
I-1	'5'	N 583543.6670 E 1364136.9191	190.77	190.67	194.47	HOCO STD. DETAIL SD 4.22
S-1	2'-0"	N 583582.7943 E 1364161.1070	197.9	191.67	202.48	SEE DETAIL - SHEET 2 OF 2
I-2	'5'	N 583657.5128 E 1364207.2969	215.4	213.45	218.00	HOCO STD. DETAIL SD 4.22
I-3	'5'	N 583718.6781 E 1364245.7861	233.8	230.8	237.00	HOCO STD. DETAIL SD 4.22
M-1	4'-0"	N 583752.5345 E 1364211.5044	240.00	243.03	245.60	HOCO STD. DETAIL 65.12

NOTES: \* LOCATION OF '5" INLETS, STRUCTURE S-1 AND MANHOLE IS AT CENTER OF TOP COVER.



**PROFILE**  
SCALE:  
HOR. - 1"=50'  
VERT. - 1"=5'



**DETAIL - STRUCTURE S-1**

SCALE: NOT TO SCALE

M:\PROJECT\98373\DETAILS Red Map 17 14:45:02 1999 RIEMER MUEGGE & ASSOCIATES, INC.

DEPARTMENT OF PUBLIC WORKS  
HOWARD COUNTY, MARYLAND

*Raymond J. Calca* 3/25/99  
DIRECTOR OF PUBLIC WORKS DATE

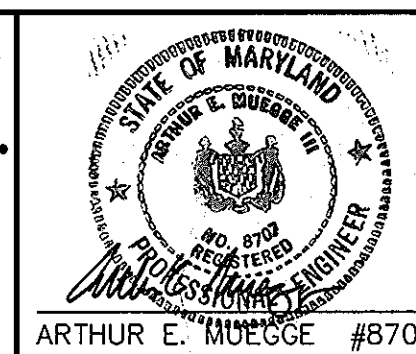
*Arthur E. Muegge* 3/19/99  
CHIEF, BUREAU OF ENGINEERING acting DATE

*Arthur E. Muegge* 3/18/99  
CHIEF, DIVISION OF TRANSPORTATION PROJECTS AND WATERSHED MANAGEMENT DATE

*Arthur E. Muegge* 3/18/99  
CHIEF, BUREAU OF HIGHWAYS DATE

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98373

ARTHUR E. MUEGGE #8707



DES: CJR					
DRN: RJC					
CHK: AEM					
DATE: 3/17/99	BY NO.	REVISION	DATE		

**PROFILE & DETAILS**

600' SCALE MAP NO. 17 BLOCK NO. 22

**DRAINAGE IMPROVEMENTS**  
STRAWBERRY LANE/COURT AVENUE  
2nd ELECTION DISTRICT  
HOWARD COUNTY, MARYLAND  
CAPITAL PROJECT No.D-1118-TT

SCALE AS SHOWN  
SHEET 2 OF 2