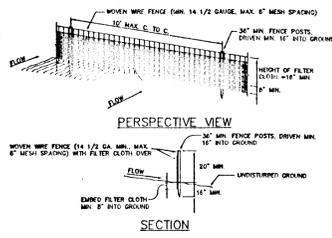


**CONDITIONS AND MANAGEMENT PRACTICES FOR WORKING IN NONTIDAL WETLANDS**

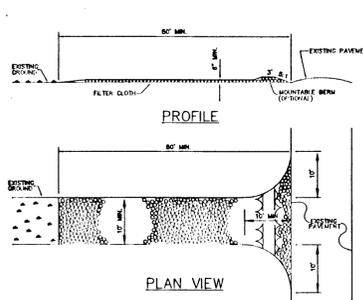
- Remove excess fill or construction material or debris to an upland disposal area;
- Place materials in a location and manner which does not adversely impact surface or subsurface water flow into or out of remaining nontidal wetland;
- Store heavy equipment in upland areas and suitably operate the equipment to prevent damage to the remaining nontidal wetlands;
- Repair and maintain any serviceable structure or fill so there is no permanent loss of nontidal wetlands in excess of nontidal wetlands lost under the original structure or fill;



CONSTRUCTION NOTES FOR FABRICATED SILT FENCE

- WOODEN WIRE FENCE TO BE FASTENED TO FENCE POSTS WITH WIRE TIES AND STAPLES.
- FILTER CLOTH TO BE FASTENED TO WOODEN WIRE FENCE WITH 2x4 BRACE EVERY 24" AT TOP AND MID SECTION.
- WHEN THE SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVERLAPPED BY 6" TO 12" (SEE DETAIL).
- MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN "RAISED" DEVELOP IN THE SILT FENCE.

**SILT FENCE DETAIL**



**CONSTRUCTION SPECIFICATIONS**

- STONE SIZE - USE 2" STONE OR EQUIVALENT ON RECESSED CONCRETE EQUIPMENT.
- LENGTH - AS REQUIRED TO PROTECT EXISTING OR PROPOSED STRUCTURE.
- THICKNESS - NOT LESS THAN 18" (SEE DETAIL).
- INSTALLATION - SHALL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING OF STONE. FILTER CLOTH WILL NOT BE REQUIRED ON A SINGLE REFERENCE LOT.
- MAINTENANCE - BASED ON SCHEDULED MAINTENANCE AND SHALL BE PROVIDED AFTER EACH RAIN.

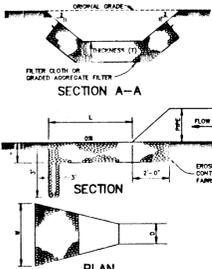
**STABILIZED CONSTRUCTION ENTRANCE**

NO SCALE

**PERMANENT SEEDING NOTES**

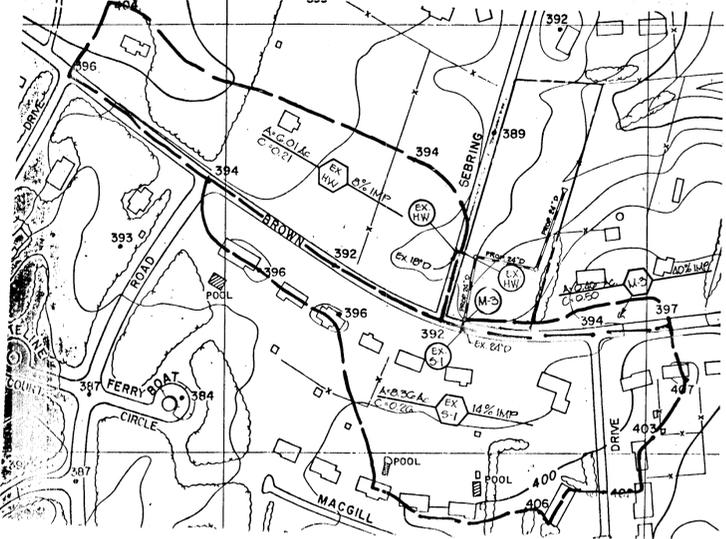
- Apply to graded or cleared areas not subject to immediate further disturbance where a permanent long term vegetation cover is desired.
- Seeded Preparation: Loosen upper three inches of soil by raking, mixing or other suitable means before seeding. Do not apply seed to bare soil.
- Soil Amendments: Use of soil test recommendations use one of the following:
  - Fertilizer - Apply 2 tons per acre dolomitic limestone (22 lbs. per 1000 sq ft) and 800 lbs. per acre 10-10-10 fertilizer (14 lbs. per 1000 sq ft) before seeding. Follow with 200 lbs. per acre urea (28% N) and 200 lbs. per acre 0-20-20 fertilizer (20 lbs. per 1000 sq ft) of seeding equipment. During the period October 15 thru February 28, protect site by one of the following:
    - 2 tons per acre of well-rotted manure and seed as soon as possible in the spring.
    - Use sod.
    - Seed with 80 lbs. per acre Kentucky 31 Tall Fescue and mulch with 2 tons per acre well-rotted straw.

**SEEDING TO BE PERFORMED IN PROPOSED TRANSITION SECTION**



**RIPRAP OUTLET PROTECTION DETAIL**

STRUCTURE	METHOD	LENGTH (L)	WIDTH (W)	THICKNESS (T)
E-1	CONCRETE	20'-0"	2'-0"	18"



**DRAINAGE AREA MAP**

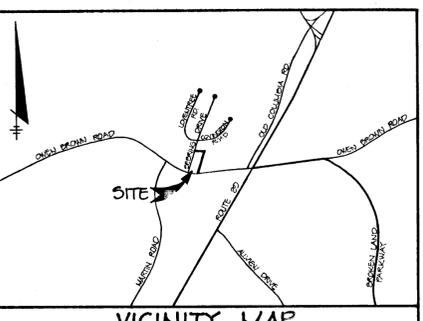
SCALE: 1" = 200'

**STRUCTURE SCHEDULE**

NO.	TYPE	LOCATION	INV. IN	INV. OUT	TOP ELEV.	REMARKS
M-1	4'-0" DIA. STD. PRECAST MANHOLE	SEE PLAN	10'-00" @ 200.07	5'-00" @ 200.07	9'-00" @ 200.06	SEE HO CO STD DETAIL G 5.12
M-2	4'-0" DIA. STD. PRECAST MANHOLE	SEE PLAN	10'-00" @ 200.04	5'-00" @ 200.04	9'-00" @ 200.06	SEE HO CO STD DETAIL G 5.12
M-3	4'-0" DIA. STD. PRECAST MANHOLE	SEE PLAN	10'-00" @ 200.14	5'-00" @ 200.14	9'-00" @ 200.18	SEE HO CO STD DETAIL G 5.12 & 5.02.02
E-1	24" CONCRETE END SECTION	SEE PLAN	20'-00" @ 201.06	-	-	SEE HO CO STD DETAIL 50.551

**GENERAL NOTES**

- ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE HOWARD COUNTY DESIGN MANUAL, 1993 EDITION, STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION, 1993 EDITION.
- APPROPRIATE LOCATION OF EXISTING UTILITIES AND SHOWING 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.
- THE CONTRACTOR SHALL TEST FIT EXISTING UTILITIES AT LEAST FIVE (5) DAYS BEFORE STARTING WORK SHOWN ON THESE DRAWINGS.
- CONTRACTOR SHALL NOTIFY THE FOLLOWING UTILITIES AT LEAST FIVE (5) DAYS BEFORE STARTING WORK SHOWN ON THESE DRAWINGS:
  - MISS UTILITY: 1-800-257-777
  - BELL TELEPHONE SYSTEM: 393-3649
  - LONG DISTANCE CABLE DIVISION: 393-3553 or 3554
  - BALTIMORE GAS AND ELECTRIC CO.: 539-8000
  - HOWARD COUNTY BUREAU OF UTILITIES: 315-4500
  - HOWARD COUNTY CONSTRUCTION INSPECTION SURVEY DIVISION (24 HOURS NOTICE PRIOR TO COMMENCEMENT OF WORK): 795-1380
- INSTALLATION OF TRAFFIC CONTROL DEVICES, MARKING AND SIGNING SHALL BE IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, 1988 EDITION.
- ALL PIPE ELEVATIONS SHOWN ARE INVERT (I) ELEVATIONS.
- PROFILE STATIONS SHALL BE ADJUSTED AS NECESSARY TO CONFORM TO PLAN DIMENSIONS.
- TOPD TAKEN FROM FIELD RUN SURVEY DATED MARCH 1993 BY RIEMER MUEGGEL & ASSOCIATES, INC.
- NO PIPE SHALL BE LAIN UNTIL LINES OF EXCAVATION HAVE BEEN BROUGHT WITHIN 6" OF FINISHED GRADE.
- 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.
- SEWER/WATER MANAGEMENT IS NOT REQUIRED FOR THIS DEVELOPMENT THERE IS NO CHANGE REQUIRED EXISTING COVER AND PROPOSED COVER AND THEREFORE NO REPAIRS OR REPAIRS.
- THIS PROJECT REQUIRES FOR A LETTER OF AUTHORIZATION BY MARYLAND DEPARTMENT OF NATURAL RESOURCES UNDER PERMIT NUMBER 03-NI-0920.
- TOPD FOR DRAINAGE AREA MAP IS AERIAL TOPOGRAPHY OBTAINED FROM HOWARD COUNTY.



**VICINITY MAP**

SCALE: 1" = 2000'

**BY THE DEVELOPER:**

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 THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTIONS BY THE HOWARD SOIL CONSERVATION DISTRICT.

Developer: *James H. Selfridge* DATE: 10/18/93

**BY THE ENGINEER:**

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 SOIL CONSERVATION DISTRICT.

Engineer: *J. Farrell* DATE: 10/18/93

**THESE PLANS HAVE BEEN REVIEWED FOR THE HOWARD SOIL CONSERVATION DISTRICT AND MEET THE TECHNICAL REQUIREMENTS FOR SOIL EROSION AND SEDIMENT CONTROL.**

Approved: *J. H. Washburn* DATE: 10/21/93  
S.S. SOIL CONSERVATION SERVICE

Approved: *John P. Rhett* DATE: 10/21/93  
HOWARD SOIL CONSERVATION DISTRICT

Approved: *Gina Surman* DATE: 11/8/93  
CHIEF, DIVISION OF LAND DEVELOPMENT AND RESEARCH

Approved: *John P. Rhett* DATE: 11/4/93  
HOWARD SOIL CONSERVATION DISTRICT

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

Approved: *Gina Surman* DATE: 11/8/93  
CHIEF, DIVISION OF LAND DEVELOPMENT AND RESEARCH

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

Approved: *John P. Rhett* DATE: 11/4/93  
CHIEF, BUREAU OF HIGHWAYS

Approved: *John P. Rhett* DATE: 11/4/93  
CHIEF, BUREAU OF HIGHWAYS

DATE NO. REVISION

OWNER/DEVELOPER: JAMES H. SELFTRIDGE BUILDERS, INC. 8101 DORSEY RUN ROAD JESSUP, MARYLAND 20794

PROJECT: ELOISE SECREST SUBDIVISION

AREA TAX MAP NO. 56 PARCEL 05 PLAT # 50866 ZONED R-20 5TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND

TITLE: STORM DRAINAGE PLAN

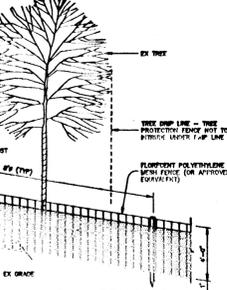
RIEMER MUEGGEL & ASSOCIATES, INC. Planners Engineers Surveyors 8818 Centre Park Drive • Suite 200 • Columbia, Md. 21045 410-997-8900 FAX: 410-997-8282

DATE: 10-18-93

DESIGNED BY: C.J.R.  
DRAWN BY: MAD  
PROJECT NO: 99001  
DATE: OCTOBER 15, 1993  
SCALE: AS SHOWN  
DRAWING NO. 1 OF 1

JAYKANT D. PAREKH PE # 19148

AS-BUILT 7.20.04 F.94.05

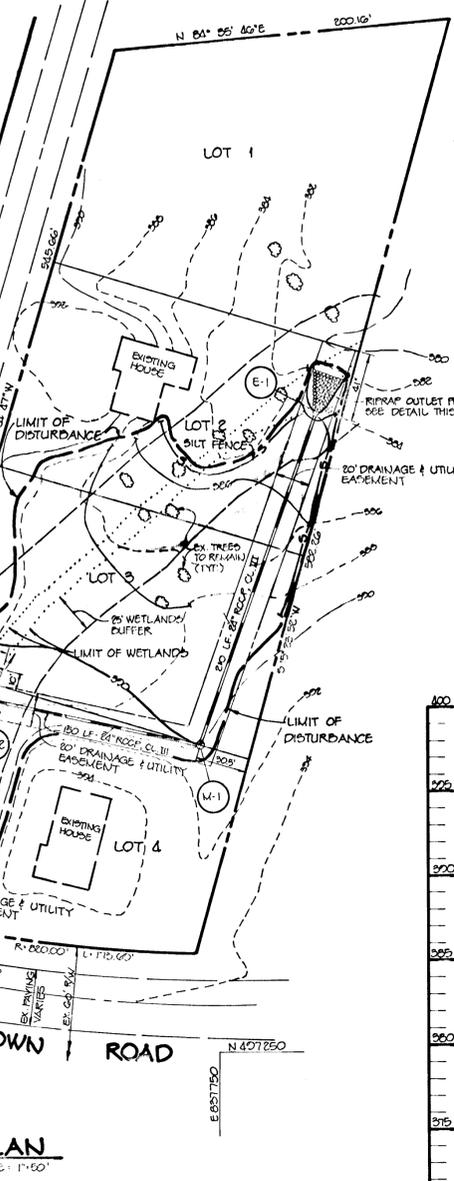


**PROTECTIVE TREE FENCING ELEVATION DETAIL**

NO SCALE

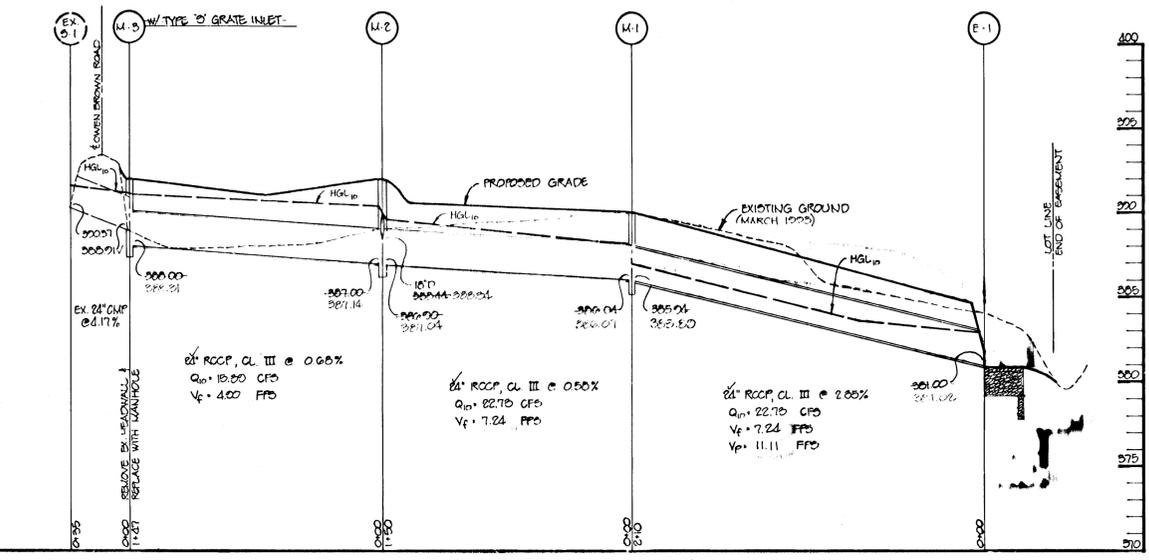
**TREE PRESERVATION PROCEDURES**

- THE FOOT OF WORK TO BE PROTECTED WILL BE MARKED IN THE FIELD FOR THE APPROVED SITE DEVELOPMENT PLAN PRIOR TO THE START OF CONSTRUCTION ACTIVITY.
- PROTECTIVE FENCING SHALL BE INSTALLED AT THE OUTER LINE OF THE EDGE OF THE FOOT OF WORK WITHIN THE PROTECTED AREA TO BE CONSIDERED OFF LIMITS FOR CONSTRUCTION ACTIVITY.
- PROTECTIVE FENCING WILL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR. THE GENERAL CONTRACTOR WILL AFTER 100% TO THE FENCING INDICATING THAT THE WORK IS TO BE COMPLETED WITHIN THE PROTECTED AREA. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO THE PROTECTED AREA. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO THE PROTECTED AREA. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO THE PROTECTED AREA.
- REMOVAL OF TOPSOIL OR ROOT MAT WITHIN THE TREE PRESERVATION AREA SHALL BE PROHIBITED. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO THE PROTECTED AREA. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO THE PROTECTED AREA.
- FOOT TRAFFIC, AS WELL AS VEHICULAR TRAFFIC, IN THE TREE PRESERVATION AREA SHALL BE PROHIBITED. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO THE PROTECTED AREA. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO THE PROTECTED AREA.
- CONSTRUCTION ACTIVITIES EXTERNALLY NEARBY WITHIN THE TREE PRESERVATION AREA, SUCH AS THE INSTALLATION OF UTILITY LINES, SHALL BE PROHIBITED. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO THE PROTECTED AREA. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO THE PROTECTED AREA.
- ALL TREES WHICH ARE NOT TO BE PRESERVED WITHIN FIFTY FEET OF ANY TREE PRESERVATION AREA ARE TO BE REMOVED IN A MANNER THAT WILL NOT DAMAGE THOSE TREES THAT ARE DESIGNATED FOR PRESERVATION. IT IS HEREBY RECOMMENDED THAT THE REMOVAL OF THESE TREES BE COMPLETED WITH A START DURING THE MONTH OF WINTER DAMAGE.



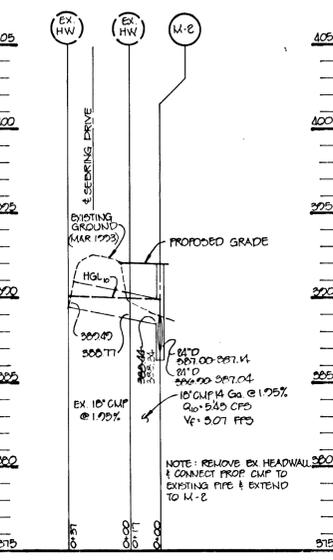
**PLAN**

SCALE: 1" = 100'



**STORM DRAIN PROFILE**

SCALE: HOR. 1" = 100' VERT. 1" = 5'



**STORM DRAIN PROFILE**

SCALE: HOR. 1" = 100' VERT. 1" = 5'

1679

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