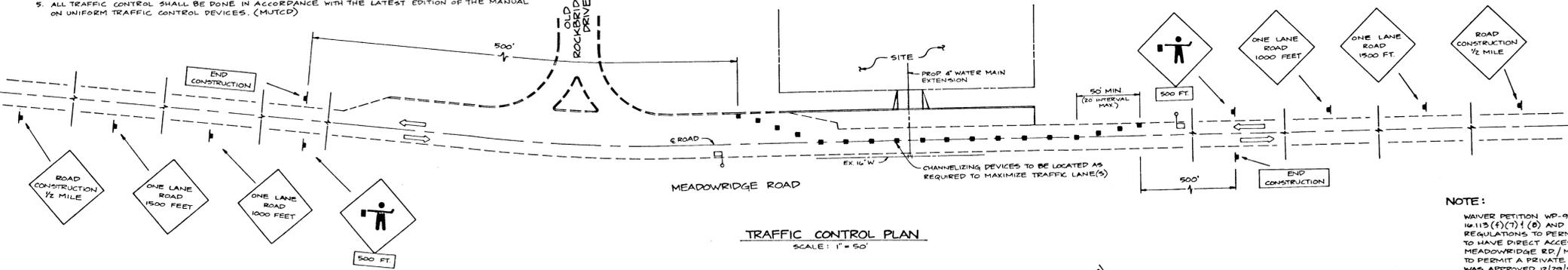
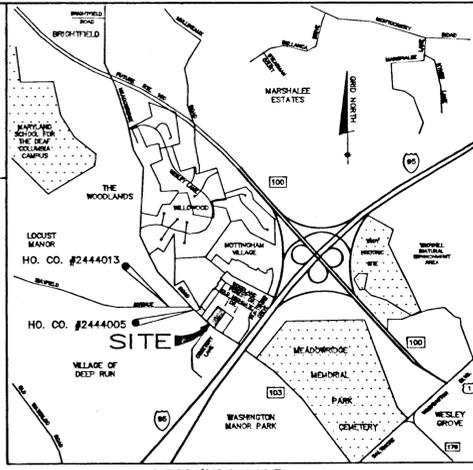


- NOTES:
- CONTRACTOR TO PROVIDE TRAFFIC CONTROL AT ALL TIMES DURING THE ROADWAY CONSTRUCTION.
  - AT A MINIMUM, ONE LANE OF TRAFFIC MUST BE MAINTAINED DURING THE CONSTRUCTION OF THE 4" WATER MAIN EXTENSION WITHIN THE EXISTING ROADWAY. (SEE NOTE 4) NO OPEN TRENCH SHALL BE PERMITTED BETWEEN 4 PM & 9 AM. NO OPEN TRENCH SHALL BE PERMITTED WITHOUT COUNTY OR STATE INSPECTOR PRESENT.
  - THE PLAN AS SHOWN IS A MINIMUM REQUIREMENT FOR TRAFFIC CONTROL. ADDITIONAL CONTROL DEVICES SHALL BE PLACED AT THE EXPENSE OF THE CONTRACTOR, AS DIRECTED BY THE COUNTY OR STATE INSPECTORS.
  - TWO 10' WIDE LANES OF TRAFFIC ARE TO BE MAINTAINED ON MEADOWRIDGE ROAD BETWEEN 4 PM AND 9 AM.
  - ALL TRAFFIC CONTROL SHALL BE DONE IN ACCORDANCE WITH THE LATEST EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES. (MUTCD)

- KEY
- CHANNELIZING DEVICES
  - SIGN SUPPORT
  - FACE OF SIGN
  - DIRECTION OF TRAFFIC
  - WORK SITE
  - FLAGGER

**BENCH MARKS**

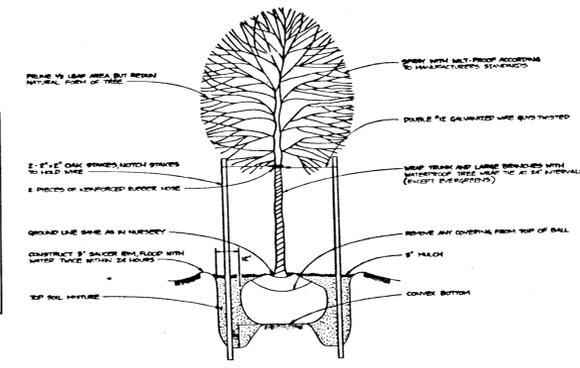
HO. CO. #2444005	ELEV. 271.249
CONC. MONUMENT 0.5' BELOW SURFACE, ON THE WEST SIDE OF MEADOWRIDGE RD. SOUTH OF MAYFIELD RD.	
N 495598.271	E 065126.170
HO. CO. #2444013	ELEV. 268.109
CONC. MONUMENT AT SURFACE, 17.1' NORTH OF CENTERLINE OF MAYFIELD AVE.	
N 495646.964	E 062542.349



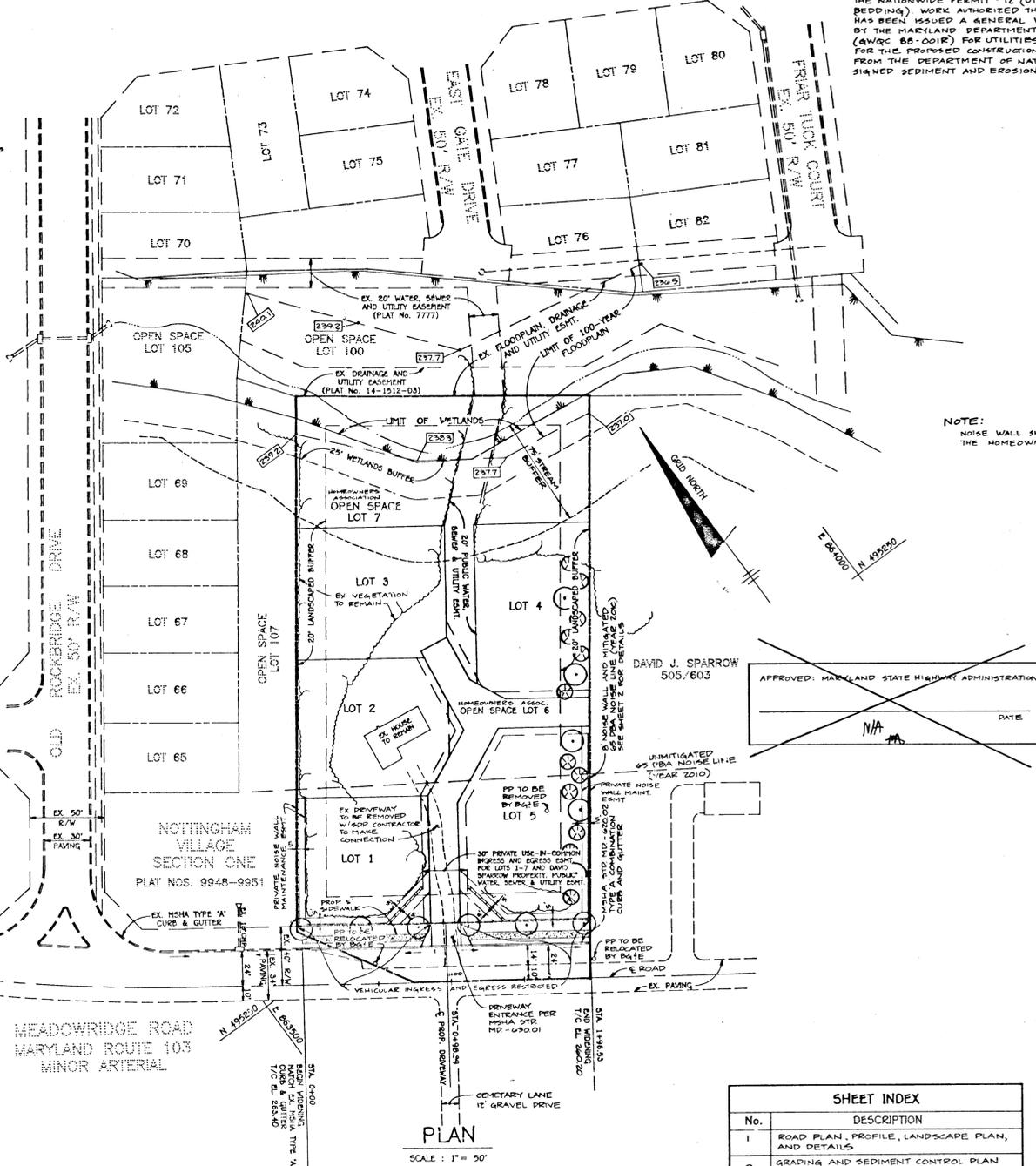
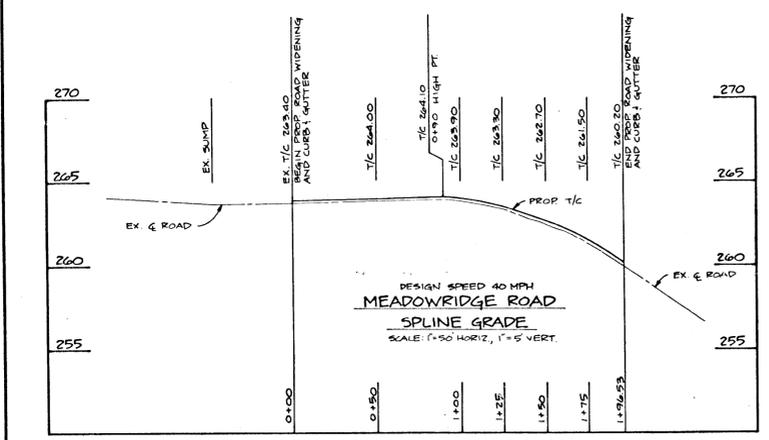
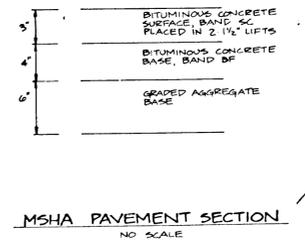
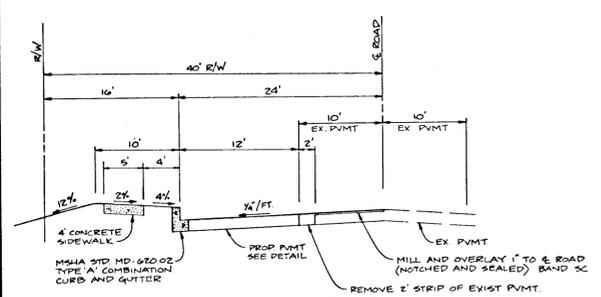
NOTE:  
 WAIVER PETITION WP-93-56 REQUEST TO WAIVE SECTIONS 14-115 (1)(7) (8) AND 14-115 (2)(4) OF THE SUBDIVISION REGULATIONS TO PERMIT A PRIVATE RESIDENTIAL DRIVEWAY TO HAVE DIRECT ACCESS TO A MINOR ARTERIAL HIGHWAY, MEADOWRIDGE RD/HO ROUTE 103 AND SECTION 14-115 (8)(9) TO PERMIT A PRIVATE ROAD TO EXCEED 200 FEET IN LENGTH WAS APPROVED 12/29/92 BY THE DIRECTOR OF PLANNING AND ZONING.

**PLANT LIST**

SYMBOL	QUANTITY	NAME	SPACING	REMARKS
(Symbol)	12	PINUS STROBUS White Pine	4'-6" HT	5' B 10' O.C.
(Symbol)	11	ACER RUBRUM Red Maple	4'-6" HT	5' B AS SHOWN
TOTAL	23			



- SIDEWALK NOTES:**
- SIDEWALK TO BE SCRIBED IN 5' MAXIMUM SQUARES.
  - EXPANSION JOINTS ACROSS THE SIDEWALK NOT TO BE MORE THAN 15' APART.
  - 1/2" PREFORMED BITUMINOUS EXPANSION MATERIAL IN EXPANSION JOINTS TO BE KEPT 1/4" BELOW SURFACE OF SIDEWALK.
  - CONCRETE TO BE MIX NO 2.



THE CORPS OF ENGINEERS HAS APPROVED THE PROPOSED SANITARY SEWER CONSTRUCTION IN THE NORTHERN WETLAND AREA UNDER THE NATIONWIDE PERMIT #12 (UTILITY LINE BACKFILL AND BEDDING) WORK AUTHORIZED THROUGH NATIONWIDE PERMIT #12 HAS BEEN ISSUED A GENERAL WATER QUALITY CERTIFICATION BY THE MARYLAND DEPARTMENT OF THE ENVIRONMENT (AWQC 88-001R) FOR UTILITIES. A LETTER OF AUTHORIZATION FOR THE PROPOSED CONSTRUCTION ACTIVITY SHALL BE OBTAINED FROM THE DEPARTMENT OF NATURAL RESOURCES WHEN SIGNED SEDIMENT AND EROSION CONTROL PLAN IS PROVIDED.

NOTE:  
 NOISE WALL SHALL BE MAINTAINED BY THE HOMEOWNERS ASSOCIATION.

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS  
 CHIEF, LAND DEVELOPMENT DIVISION  
 DATE: 5/26/93

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING  
 CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT  
 DATE: 6/1/93

APPROVED: MARYLAND STATE HIGHWAY ADMINISTRATION  
 DATE: N/A

NO	DATE	REVISION

TSA GROUP, INC.  
 planning • architecture • engineering  
 8480 Baltimore National Pike • Beltsville City, Maryland 21048 • (410) 465-8106

OWNER/DEVELOPER:  
 SDC GROUP, INC.  
 P.O. BOX 417  
 ELLICOTT CITY, MARYLAND 21043  
 (410) 465-4244

PROJECT:  
**SPARROW-GRAY**  
 SECTION 1, AREA 1  
 LOTS 1-7

LOCATION:  
 TAX MAP 37 - PARCEL 544  
 1st ELECTION DISTRICT  
 HOWARD COUNTY, MARYLAND

TITLE:  
**ROAD PLAN, PROFILE, LANDSCAPE PLAN, AND DETAILS**

DATE: FEBRUARY 26, 1993  
 MAY 11, 1993

PROJECT NO. 0417

SCALE: AS SHOWN

DRAWING 1 OF 2

**SHEET INDEX**

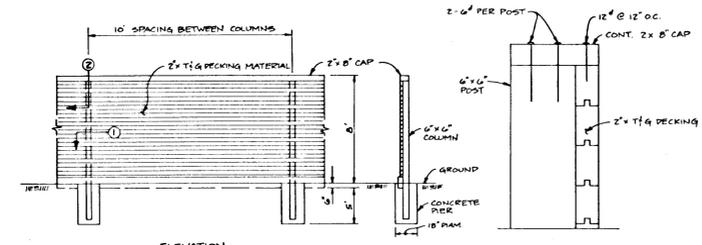
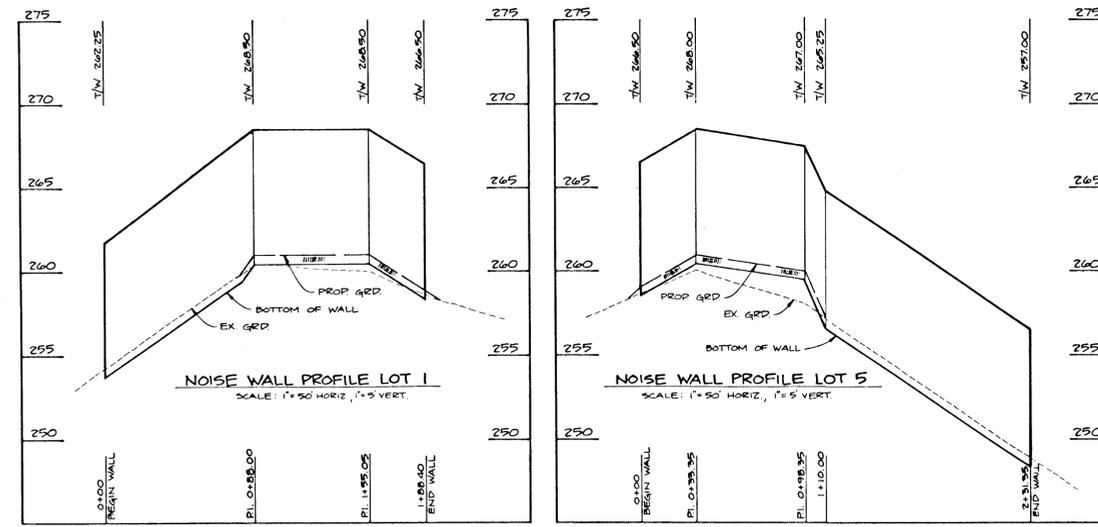
No.	DESCRIPTION
1	ROAD PLAN, PROFILE, LANDSCAPE PLAN, AND DETAILS
2	GRADING AND SEDIMENT CONTROL PLAN AND DETAILS

659T

**SEDIMENT CONTROL NOTES**

- A MINIMUM OF 48 HOURS NOTICE MUST BE GIVEN TO THE HOWARD COUNTY DEPARTMENT OF INSPECTIONS, LICENSES, AND PERMITS, SEDIMENT CONTROL DIVISION PRIOR TO THE START OF ANY CONSTRUCTION (31-1859).
- ALL VEGETATIVE AND STRUCTURAL PRACTICES ARE TO BE INSTALLED ACCORDING TO THE PROVISIONS OF THIS PLAN AND ARE TO BE IN CONFORMANCE WITH THE MOST CURRENT MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL, AND REVISIONS THEREOF.
- FOLLOWING INITIAL SOIL DISTURBANCE OR REDISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN: A) 7 CALENDAR DAYS FOR ALL PERIMETER SEDIMENT CONTROL STRUCTURES, DICES, PERIMETER SLOPES AND ALL SLOPES GREATER THAN 3:1. B) 14 DAYS AS TO ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE.
- ALL SEDIMENT TRAPS/BASINS SHOWN MUST BE FENCED AND WARNING SIGNS POSTED AROUND THEIR PERIMETER IN ACCORDANCE WITH VOL. 1, CHAPTER 12, OF THE HOWARD COUNTY DESIGN MANUAL, STORM DRAINAGE.
- ALL DISTURBED AREAS MUST BE STABILIZED WITHIN THE TIME PERIOD SPECIFIED ABOVE IN ACCORDANCE WITH THE 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL FOR PERMANENT SEEDINGS (SEC. 511, SOD (SEC. 541), TEMPORARY SEEDING (SEC. 58) AND MULCHING (SEC. 521). TEMPORARY STABILIZATION WITH MULCH ALONE CAN ONLY BE DONE WHEN RECOMMENDED SEEDING DATES DO NOT ALLOW FOR PROPER GERMINATION AND ESTABLISHMENT OF GRASSES.
- ALL SEDIMENT CONTROL STRUCTURES ARE TO REMAIN IN PLACE AND ARE TO BE MAINTAINED IN OPERATIVE CONDITION UNTIL PERMISSION FOR THEIR REMOVAL HAS BEEN OBTAINED FROM THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR.
- SITE ANALYSIS:**  

TOTAL AREA OF SITE	1.01 ACRES
AREA TO BE SEEDING	0.40 ACRES
AREA TO BE VEGETATIVELY STABILIZED	0.33 ACRES
TOTAL CUT	100 CU YDS
TOTAL FILL	100 CU YDS
OFFSITE WASTE/BORROW AREA LOCATION	N/A
- ANY SEDIMENT CONTROL PRACTICE WHICH IS DISTURBED BY GRADING ACTIVITY FOR PLACEMENT OF UTILITIES MUST BE REPAIRED ON THE SAME DAY OF DISTURBANCE.
- ADDITIONAL SEDIMENT CONTROL MUST BE PROVIDED, IF DEEMED NECESSARY BY THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR.
- ON ALL SITES WITH DISTURBED AREAS IN EXCESS OF 2 ACRES, APPROVAL OF THE INSPECTION AGENCY SHALL BE REQUESTED UPON COMPLETION OF INSTALLATION OF PERIMETER EROSION AND SEDIMENT CONTROL, BUT BEFORE PROCEEDING WITH ANY OTHER EARTH DISTURBANCE OR GRADING. OTHER BUILDING OR GRADING INSPECTION APPROVALS MAY NOT BE AUTHORIZED UNTIL THIS INITIAL APPROVAL BY THE INSPECTION AGENCY IS MADE.
- TRENCHES FOR THE CONSTRUCTION OF UTILITIES ARE LIMITED TO THREE SITE LENGTHS OR THAT WHICH CAN BE BACK FILLED AND STABILIZED WITHIN ONE WORKING DAY, WHICHEVER IS SHORTER.



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

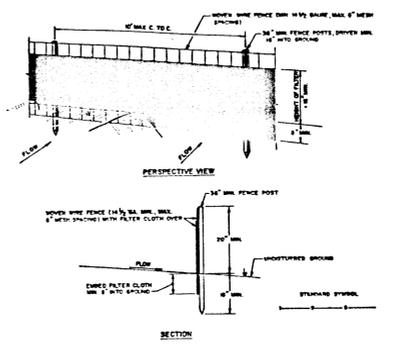
- Stockpile and maintain separately the top 6"-12" of topsoil material, to be replaced as the top layer of the backfilled material.
- Remove excess fill or construction material or debris to an upland disposal area.
- Place materials in a location and manner which does not adversely impact surface or subsurface water flow into or out of the nontidal wetland.
- Use previously excavated material as backfill, unless it contains waste metal products, unsightly debris, toxic material or any other deleterious substance. Use clean borrow material when excavated material is not suitable for use as backfill.
- All stabilization in the wetland and buffer shall be of the following species: Annual Ryegrass (*Lolium multiflorum*), Millet (*Setaria italica*), Barley (*Hordeum sp.*), Oats (*Avena sp.*) and Rye (*Secale cereale*). These species allow for the stabilization of the site while also allowing for the voluntary revegetation of natural wetland species. Other non-persistent vegetation may be acceptable, but must be approved by the Division. Kentucky 31 fence shall not be utilized in the wetland or buffer areas. The area should be seeded and mulched to reduce erosion after construction activities have been completed. Upon completion of the project nontidal wetlands and the 25-foot nontidal wetland buffer will not be mowed or otherwise managed to prevent the establishment of woody vegetation.
- After installation has been completed, make post-construction grades and elevations of nontidal wetlands the same as the original grades and elevations.
- To protect important aquatic species, in-stream work is prohibited as determined by the classification of the stream as follows (tributary to Deep Run is a classified as Use 1 waters):
  - Class 1 waters. In-stream work may not be conducted during the period March 1 through June 15, inclusive, during any year.

**PERMANENT SEEDING NOTES**

- SEEDING 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 (92 105/1000 SO FT) AND 600 LBS PER ACRE 10-10-10 FERTILIZER (14 105/1000 SO 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 (9 105/1000 SO FT).
  - ACCEPTABLE:** APPLY 2 TONS PER ACRE DOLOMITIC LIMESTONE (92 105/1000 SO FT) AND 1000 LBS PER ACRE 10-10-10 FERTILIZER (23 105/1000 SO FT) BEFORE SEEDING. HARROW OR DISC INTO UPPER THREE INCHES OF SOIL.
- SEEDING:** FOR PERIODS MARCH 1 THRU APRIL 30 AND AUGUST 1 THRU OCTOBER 15, SEED WITH 60 LBS PER ACRE (1.4 105/1000 SO FT) OF KENTUCKY 31 TALL FESCUE. FOR THE PERIOD MAY 1 THRU JULY 31, SEED WITH 60 LBS PER ACRE OF WEEPING LOVEGRASS. DURING THE PERIOD OF OCTOBER 16 THRU FEBRUARY 28, PROTECT SITE BY: OPTION (1) 2 TONS PER ACRE OF WELL ANCHORED STRAW MULCH AND SEED AS SOON AS POSSIBLE IN THE SPRING. OPTION (2) USE SOD. OPTION (3) SEED WITH 60 LBS PER ACRE OF KENTUCKY 31 TALL FESCUE AND MULCH WITH 2 TONS PER ACRE OF WELL ANCHORED STRAW.
- MULCHING:** APPLY 1-1/2 TO 2 TONS PER ACRE (70 TO 90 105/1000 SO FT) OF UNKUTTED SMALL GRAIN STRAW IMMEDIATELY AFTER SEEDING. ANCHOR MULCH IMMEDIATELY AFTER APPLICATION USING MULCH ANCHORING TOOL OR 216 GALLONS PER ACRE (5 081/1000 SO FT) OF EMULSIFIED ASPHALT ON FLAT AREAS. ON SLOPES 6 FEET OR HIGHER, USE 348 GALLONS PER ACRE (8 941/1000 SO FT) FOR ANCHORING.
- MAINTENANCE:** INSPECT ALL SEEDING AREAS AND MAKE NEEDED REPAIRS, REPLACEMENTS AND RESEEDINGS.

**TEMPORARY SEEDING PREPARATION**

- APPLY TO GRADED OR CLEARED AREAS LIKELY TO BE REDISTURBED WHERE A SHORT-TERM VEGETATIVE COVER IS NEEDED.
- SEEDING PREPARATION:** LOOSEN UPPER THREE INCHES OF SOIL BY RAKING, DISCING OR OTHER ACCEPTABLE MEANS BEFORE SEEDING, IF NOT PREVIOUSLY LOOSENED.
- SOIL AMENDMENTS:** APPLY 600 LBS PER ACRE 10-10-10 FERTILIZER (14 105/1000 SO FT).
- SEEDING:** FOR PERIODS MARCH 1 THRU APRIL 30 AND FROM AUGUST 15 THRU NOVEMBER 15, SEED WITH 2-1/2 BUSHELS PER ACRE OF WINDRICE (2.2 105/1000 SO FT). FOR THE PERIOD MAY 1 THRU AUGUST 14, SEED WITH 3 LBS PER ACRE OF WEEPING LOVEGRASS (0.7 081/1000 SO FT). FOR THE PERIOD NOVEMBER 16 THRU FEBRUARY 28, PROTECT SITE BY APPLYING 2 TONS PER ACRE OF WELL ANCHORED STRAW MULCH AND SEED AS SOON AS POSSIBLE IN THE SPRING, OR USE SOD.
- MULCHING:** APPLY 1-1/2 TO 2 TONS PER ACRE (70 TO 90 105/1000 SO FT) OF UNKUTTED SMALL GRAIN STRAW IMMEDIATELY AFTER SEEDING. ANCHOR MULCH IMMEDIATELY AFTER APPLICATION USING MULCH ANCHORING TOOL OR 216 GALLONS PER ACRE (5 081/1000 SO FT) OF EMULSIFIED ASPHALT ON FLAT AREAS. ON SLOPES 6 FT. OR HIGHER, USE 348 GALLONS PER ACRE (8 941/1000 SO FT) FOR ANCHORING.
- REFER TO THE 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL FOR RATE AND METHODS NOT COVERED.



**CONSTRUCTION NOTES FOR REPAIRED SILT FENCE**

- MOVIE WIRE FENCE TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES OR STAPLES.
- FILTER CLOTH TO BE FASTENED SECURELY TO MOVIE WIRE FENCE WITH TIE SPACES EVERY 24" AT TOP AND MID SECTION.
- WIRE TIE SECTIONS OF FILTER CLOTH AGAIN EACH OTHER THEY SHALL BE OVERLAPPED BY SIX INCHES AND FOLDED.
- MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN MULCH DEVELOPS IN THE SILT FENCE.

**SILT FENCE**

NO SCALE

**STANDARD SYMBOL**



**CONSTRUCTION SPECIFICATIONS**

- Stone Size - Use 2" stones, or reclaimed or recycled concrete equivalent.
- Length - As required, but not less than 30 feet (except on a slope retention area where a 10 foot minimum length would apply).
- Thickness - Not less than six (6) inches.
- Width - Ten (10) foot minimum, but not less than the full width at points where ingress or egress occurs.
- Filter Cloth - Will be placed over the entire area prior to placing of stone. Filter will not be required on a slope facing retention lot.
- Surface Water - All surface water flowing or diverted toward construction entrances shall be piped across the entrance. If piping is impractical, a mounded berm with silt slopes will be permitted.
- Maintenance - The entrance shall be maintained in a condition which will prevent tracking or flowing of sediment onto public right-of-way. This may require periodic top dressing with additional stone as conditions demand and repair and/or cleanup of any measures used to trap sediment. All sediment applied, dropped, washed or tracked onto public right-of-way must be removed immediately.
- Washing - Wheels shall be cleaned to remove sediment prior to entrance onto public right-of-way. When washing is required, it shall be done on an area stabilized with stone and which drains into an approved sediment traps/ditches.
- Periodic inspection and needed maintenance shall be provided after each rain.

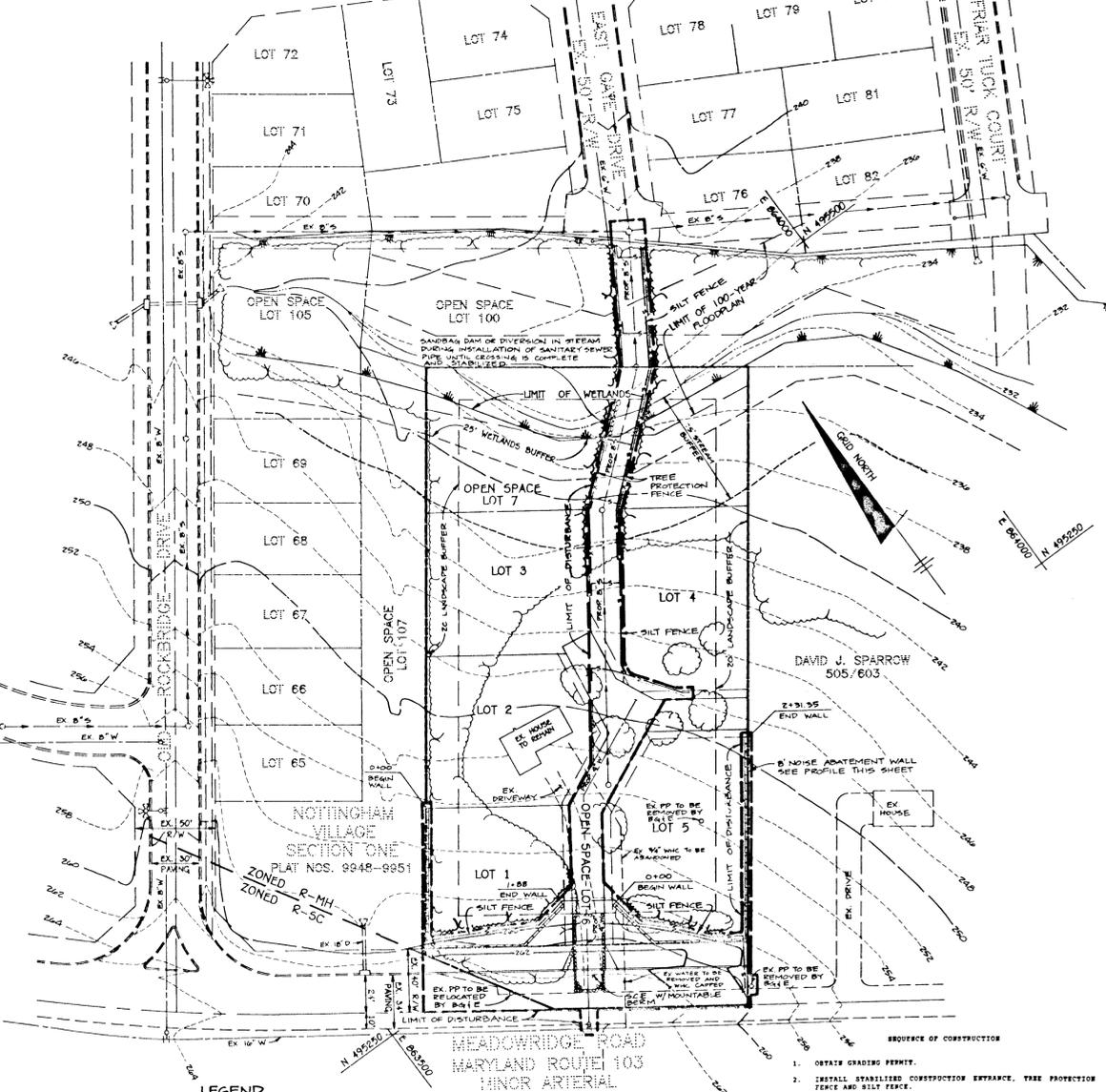
**TREE PROTECTION FENCE**

NO SCALE



**STABILIZED CONSTRUCTION ENTRANCE**

NO SCALE



**TREE PROTECTION FENCE**

NO SCALE

- FOREST PROTECTION DEVICE ONLY.
- RETENTION AREA WILL BE SET AS PART OF THE REVIEW PROCESS.
- BOUNDARIES OF RETENTION AREA SHOULD BE STAKED AND FLAGGED PRIOR TO INSTALLATION.
- ROOT DAMAGE SHOULD BE AVOIDED.
- PROTECTIVE SIGNAGE MAY ALSO BE USED.
- DEVICE SHOULD BE MAINTAINED THROUGHOUT CONSTRUCTION.

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 INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT. I WILL PROVIDE THE HOWARD SOIL CONSERVATION DISTRICT WITH AN "AS-BUILT" PLAN OF THE POND WITHIN 30 DAYS OF COMPLETION.

*James R. Moxley, Jr.*  
 DEVELOPER: JAMES R. MOXLEY, JR.  
 SDC GROUP, INC. - PRESIDENT  
 5/12/93 DATE

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. I HAVE NOTIFIED THE DEVELOPER THAT HE MUST PROVIDE THE HOWARD SOIL CONSERVATION DISTRICT WITH AN "AS-BUILT" PLAN OF THE POND WITHIN 30 DAYS OF COMPLETION.

*John Elaniga*  
 ENGINEER: JOHN M. ELANIGA, P.E. #16891  
 5/12/93 DATE

THESE PLANS HAVE BEEN REVIEWED FOR THE HOWARD SOIL CONSERVATION DISTRICT AND MEET THE TECHNICAL REQUIREMENTS FOR SMALL POND CONSTRUCTION, SOIL EROSION AND SEDIMENT CONTROL.

*James M. Zeh*  
 U.S. SOIL CONSERVATION SERVICE  
 5/18/93 DATE

THESE PLANS FOR SMALL POND CONSTRUCTION, SOIL EROSION AND SEDIMENT CONTROL MEET THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.

*Shuff V. Schuy*  
 HOWARD S.C.D.  
 5/18/93 DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS  
 CREW, LAND DEPARTMENT DIVISION  
 5/20/93 DATE

*Alan M. Jernigan*  
 CHIEF, BUREAU OF HIGHWAYS  
 5/16/93 DATE

*William J. Gray*  
 CHIEF, BUREAU OF ENGINEERING  
 5-28-93 DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING  
*Shirley M. Brunard*  
 CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT  
 6/1/93 DATE

NO	DATE	REVISION

**TSA GROUP, INC.**  
 planning • architecture • engineering  
 8480 Baltimore National Pike • Millcott City, Maryland 21045 • (410) 465-8100

**OWNER/DEVELOPER:** SDC GROUP, INC.  
 P.O. BOX 417  
 ELLICOTT CITY, MARYLAND 21043  
 (410) 465-4244

**PROJECT:** SPARROW/GRAY  
 SECTION 1, AREA 1  
 LOTS 1-7

**LOCATION:** TAX MAP 37 - PARCEL 544  
 1st ELECTION DISTRICT  
 HOWARD COUNTY, MARYLAND

**TITLE:** GRADING AND SEDIMENT CONTROL PLAN AND DETAILS

**DATE:** FEBRUARY 26, 1993  
 MAY 11, 1993

**PROJECT NO:** 0417

**SCALE:** AS SHOWN

**DRAWING:** 2 OF 2

**DES:** JME **DRN:** DRK/DBT

F-93-94