

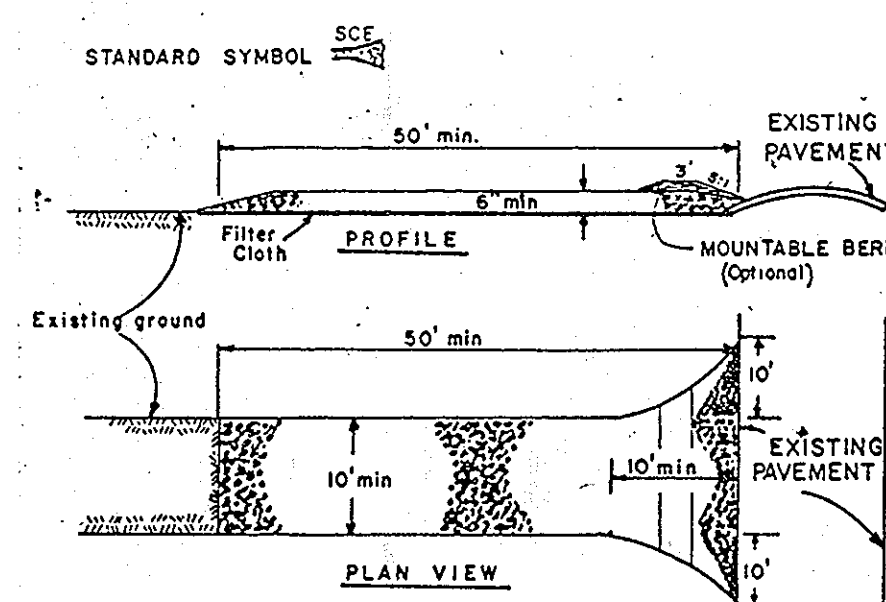
STRUCTURE SCHEDULE - PUBLIC

NO.	TYPE	INV. IN	INV. OUT	TOP ELEV.	REMARKS
S-1	54" CMP END SEC.	-	183.20	-	STD. SD 5.61
C-1	54"x15" PIPE CONN.	-	188.68	-	-
C-2	54"x15" PIPE CONN.	-	189.79	-	-
S-2	MANHOLE	193.75 192.00 192.22	191.80	204.60	STD. G 5.03
I-3	A-5 INLET	195.20	195.00	203.00	STD. ST 4.01
C-3	33"x15" PIPE CONN.	-	196.85	-	-
I-5	DOUBLE 'S' INLET	197.75	197.55	204.00	STD. SD 4.23
S-6	18" CMP END SEC.	-	183.00	-	STD. SD 5.61
I-25	A-10 INLET	193.00	192.80	200.00	STD. SD 4.02
I-26	A-10 INLET	196.75	196.50	200.80	STD. SD 4.02
I-27	A-10 INLET	-	202.00	206.50	STD. SD 4.02
C-5	54"x15" PIPE CONN.	-	188.03	-	-
C-6	54"x15" PIPE CONN.	-	199.25	-	-
I-17	D INLET	-	202.50	207.50	STD. SD 4.11
C-7	54"x21" PIPE CONN.	-	202.00	-	-
S-3	54" CMP END SEC.	203.80	-	-	STD. SD 5.61
I-1A	TYPE 'D' INLET	-	182.30	184.00	STR. SD 4.11
I-1A	18" CMP END SECT.	-	182.20	-	STR. SD 261
I-1B	END SUPPORT WALL	-	178.99	-	STR. MD 20201

GENERAL NOTES

- ALL WORK SHALL BE DONE IN ACCORDANCE WITH HOWARD COUNTY STANDARDS, SPECIFICATIONS, AND DETAILS FOR CONSTRUCTION.
- ALL UTILITY COMPANIES MUST BE NOTIFIED 24 HOURS IN ADVANCE OF ANY CONSTRUCTION.
- ALL INLETS SHALL BE HOWARD COUNTY STANDARD UNLESS OTHERWISE SHOWN ALL "A" INLETS SHALL BE DEPRESSED.
- STORM DRAIN TRENCHES WITHIN ROAD RIGHTS-OF-WAYS SHALL BE BACKFILLED AND COMPACTED IN ACCORDANCE WITH HOWARD COUNTY ROAD CODE.
- ANY DAMAGE TO PUBLIC RIGHTS-OF-WAYS OR PAVING WILL BE CORRECTED AT THE CONTRACTORS EXPENSE.
- CONTRACTOR TO NOTIFY THE HOWARD COUNTY DEPARTMENT OF INSPECTION AT LEAST 3 DAYS BEFORE STARTING WORK SHOWN ON THESE DRAWINGS. TELEPHONE 792-7272.
- ALL TRAFFIC CONTROL DEVICES SHALL BE INSTALLED IN COMPLIANCE WITH THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES, 1978 EDITION.
- THIS PLAN IS SUBJECT TO 567-22 & VP 87-78

STABILIZED CONSTRUCTION ENTRANCE
not to scale



CONSTRUCTION SPECIFICATIONS

- Stone Size - Use 2" stone, or reclaimed or recycled concrete equivalent.
- Length - As required, but not less than 30 feet (except on a single residence lot where a 30 foot minimum length would apply).
- Thickness - Not less than six (6) inches.
- Width - Two (2) 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 single family residence lot.
- Surface Water - All surface water flowing or diverted toward construction entrance shall be piped across the entrance. If piping is impractical, a mountable berm with 5:1 slopes will be permitted.
- Maintenance - The entrance shall be maintained in a condition which will prevent tracking or flowing of sediment onto public rights-of-way. This may require periodic top dressing with additional stone as conditions demand and repair and/or cleanout of any measures used to trap sediment. All sediment, washed or tracked onto public rights-of-way must be removed immediately.
- Washing - Wheels shall be cleaned to remove sediment prior to entrance onto public rights-of-way. When washing is required, it shall be done on an area stabilized with stone and which drains into an approved sediment trapping device.
- Periodic inspection and needed maintenance shall be provided after each rain.

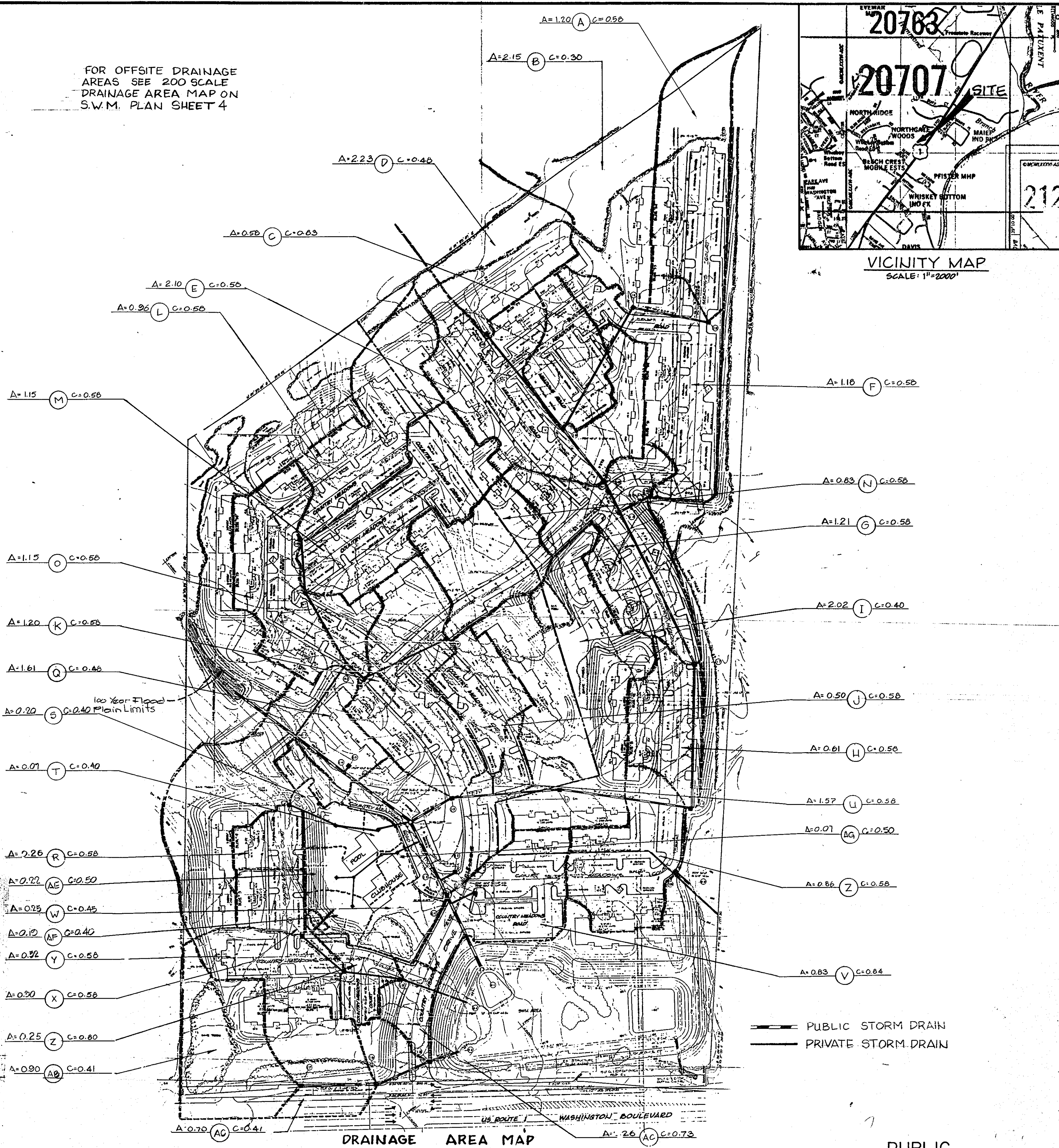
SEDIMENT CONTROL NOTES:

- MINIMUM OF 24 HOURS NOTICE MUST BE GIVEN TO THE HOWARD COUNTY OFFICE OF INSPECTIONS AND PERMITS PRIOR TO THE START OF ANY CONSTRUCTION (992-2437).
 - ALL VEGETATIVE AND STRUCTURAL PRACTICES ARE TO BE INSTALLED ACCORDING TO THE PROVISIONS OF THIS PLAN AND ARE TO BE IN CONFORMANCE WITH THE 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL.
 - FOLLOWING INITIAL SOIL DISTURBANCE OR REDISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN: a) 7 CALENDAR DAYS FOR ALL PERIMETER SEDIMENT CONTROL STRUCTURES, DIKES, 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 TRAP 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. 51) SOD (SEC. 54), TEMPORARY SEEDING (SEC. 50) AND MULCHING (SEC. 52). 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 OPERATIVE CONDITION UNTIL PERMISSION FOR THEIR REMOVAL HAS BEEN OBTAINED FROM THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR.
- SITE ANALYSIS:
- | | | |
|------------------------------------|------|----------|
| TOTAL AREA OF SITE | 12.3 | ACRES |
| AREA DISTURBED | 3.0 | ACRES |
| AREA TO BE ROOFED OR PAVED | 0.2 | ACRES |
| AREA TO BE VEGETATIVELY STABILIZED | 2.5 | ACRES |
| TOTAL CUT | - | CU. YDS. |
| TOTAL FILL | - | CU. YDS. |
| OFFSITE WASTE/BORROW AREA LOCATION | - | CU. YDS. |
- 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 CONTROLS MUST BE PROVIDED, IF DEEMED NECESSARY BY THE HOWARD COUNTY DPW 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 CONTROLS, 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.

FOR OFFSITE DRAINAGE AREAS SEE 200 SCALE DRAINAGE AREA MAP ON S.W.M. PLAN SHEET 4

STRUCTURE SCHEDULE - PRIVATE

NO.	TYPE	INV. IN	INV. OUT	TOP ELEV.	REMARKS
I-1	A-5 INLET	-	193.50	199.50	STD. SD 4.01
I-2	A-5 INLET	-	194.50	199.50	STD. SD 4.01
I-19	D INLET	196.10	195.00	199.00	STD. SD 4.11
I-16	A-5 INLET	-	216.00	222.50	STD. SD 4.01
I-14	D INLET	195.10	195.45	199.00	STD. SD 4.11
S-4	15" CMP END SEC.	-	183.00	-	STD. SD 5.61
I-22	A-5 INLET WITH DEFLECTORS	203.70	203.50	208.00	STD. SD 4.01
I-23	A-5 INLET	212.50	212.30	216.90	STD. SD 4.01
I-24	A-5 INLET	-	217.50	221.55	STD. SD 4.01
S-2	15" CMP END SEC.	-	192.20	-	STD. SD 5.61
I-28	A-5 INLET	-	196.00	200.00	STD. SD 4.01
C-3	33"x15" PIPE CONN.	-	196.85	-	-
I-4	A-5 INLET	-	205.50	210.10	STD. SD 4.01
MH-1	4" MANHOLE	208.00	207.75	215.50	STD. G 5.01
I-18	A-5 INLET	218.00	217.75	222.10	STD. SD 4.01
I-19	A-5 INLET	-	222.50	227.00	STD. SD 4.01
I-20	A-5 INLET	208.75	208.50	213.90	STD. SD 4.01
I-21	A-5 INLET	-	227.00	221.00	STD. SD 4.01
I-19	D INLET	-	194.00	198.00	STD. SD 4.11
I-20	D INLET	195.10	194.00	199.50	STD. SD 4.11
I-21	D INLET	-	196.00	199.00	STD. SD 4.11
I-22	D INLET	-	196.00	199.50	STD. SD 4.11
C-8	42"x15" PIPE CONN.	192.10	-	-	-



DRAINAGE AREA MAP
SCALE: 1"=100'

PUBLIC

1340
FISHER, COLLINS & CARTER, INC.
CIVIL ENGINEERS & LAND SURVEYORS
8388 COURT AVENUE
ELLCOTT CITY, MARYLAND 21043
(301) 461-2855

APPROVED
DEPARTMENT OF PUBLIC WORKS
CHIEF, LAND DEVELOPMENT DIVISION
[Signature]
DATE: 1/25/88

CHIEF, BUREAU OF HIGHWAYS
[Signature]
DATE: 1-26-88

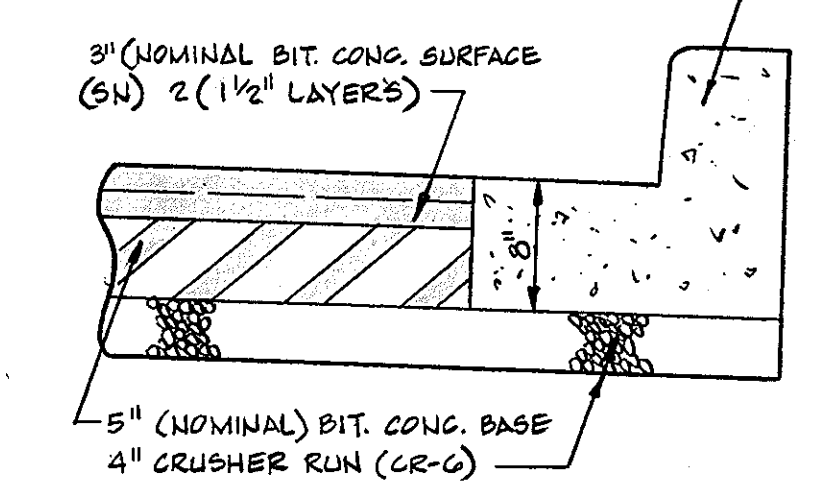
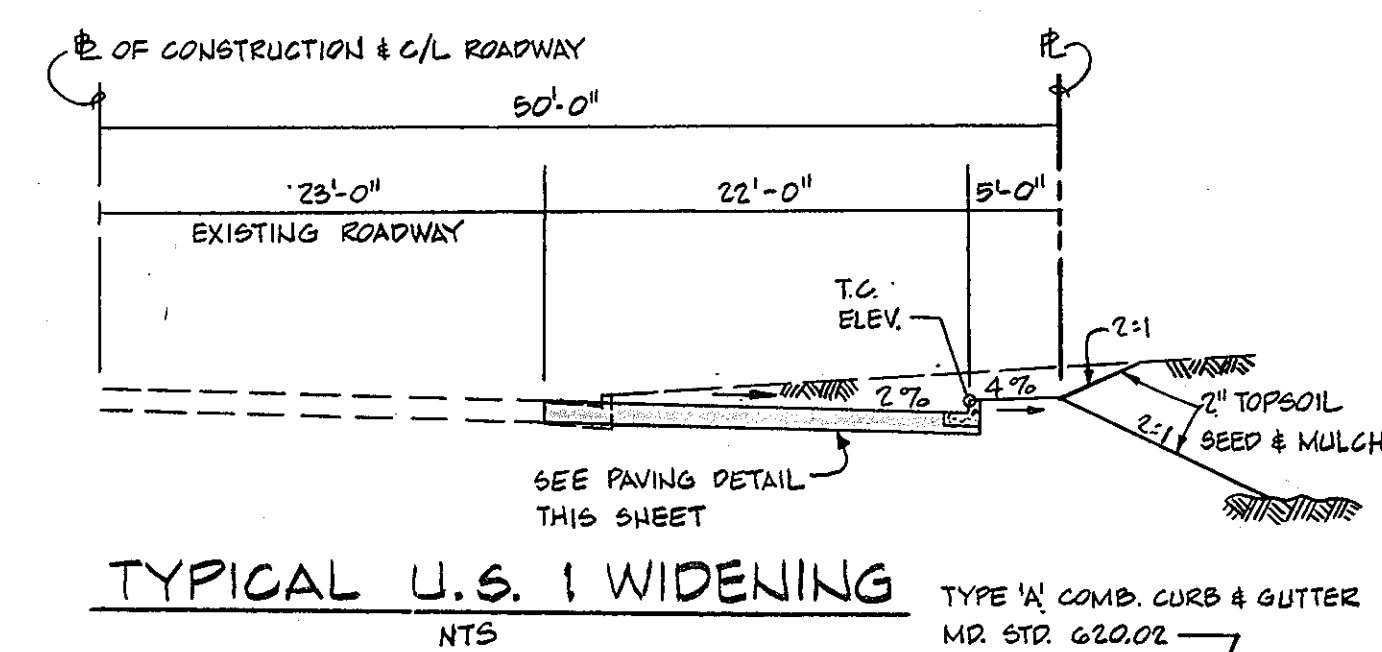
CHIEF, BUREAU OF ENGINEERING
[Signature]
DATE: 1-26-88

APPROVED
OFFICE OF PLANNING AND ZONING
[Signature]
DATE: 1/28/88
CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT

DRAINAGE AREA MAP
COUNTRY MEADOWS
PARCEL A
6TH ELECTION DISTRICT
TAX MAP 47, PARCEL 543
HOWARD COUNTY, MARYLAND
SCALE: 1"=100' DATE: 2/5/87 SHEET 1 OF 5



No.	TYPE	INV. IN.	INV. OUT.	TOP ELEV.	C/L LOC.	REMARKS
5-6	18" CMP END SECT.	—	189.00	—	C.M. ROAD 1402-80' RT.	STD MD 874.01
1-25	10" COG INLET	193.00	192.80	200.00	C.M. ROAD 2486-20' RT.	STD MD 874.21
1-26	10" COG INLET	196.50	196.20	200.80	U.S. RTE. 1 6422-47' RT.	STD MD 874.21
1-27	10" COG INLET	202.20	202.00	206.50	U.S. RTE. 1 7450-47' RT.	STD MD 874.21



COUNTRY MEADOWS
PARCEL Δ
6TH ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

ROAD PLAN
WASHINGTON BOULEVARD
(U.S. ROUTE 1)

OWNER AND DEVELOPER
COUNTRY MEADOWS LIMITED PARTNERSHIP
8930 BALTIMORE STREET
SAVAGE, MARYLAND 20763

SCALE 1"=50'
DES. K.L.
DATE 8/5/87
DRN. D.G.
DWG. NO. 2 OF 5
CHK. P.M.

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

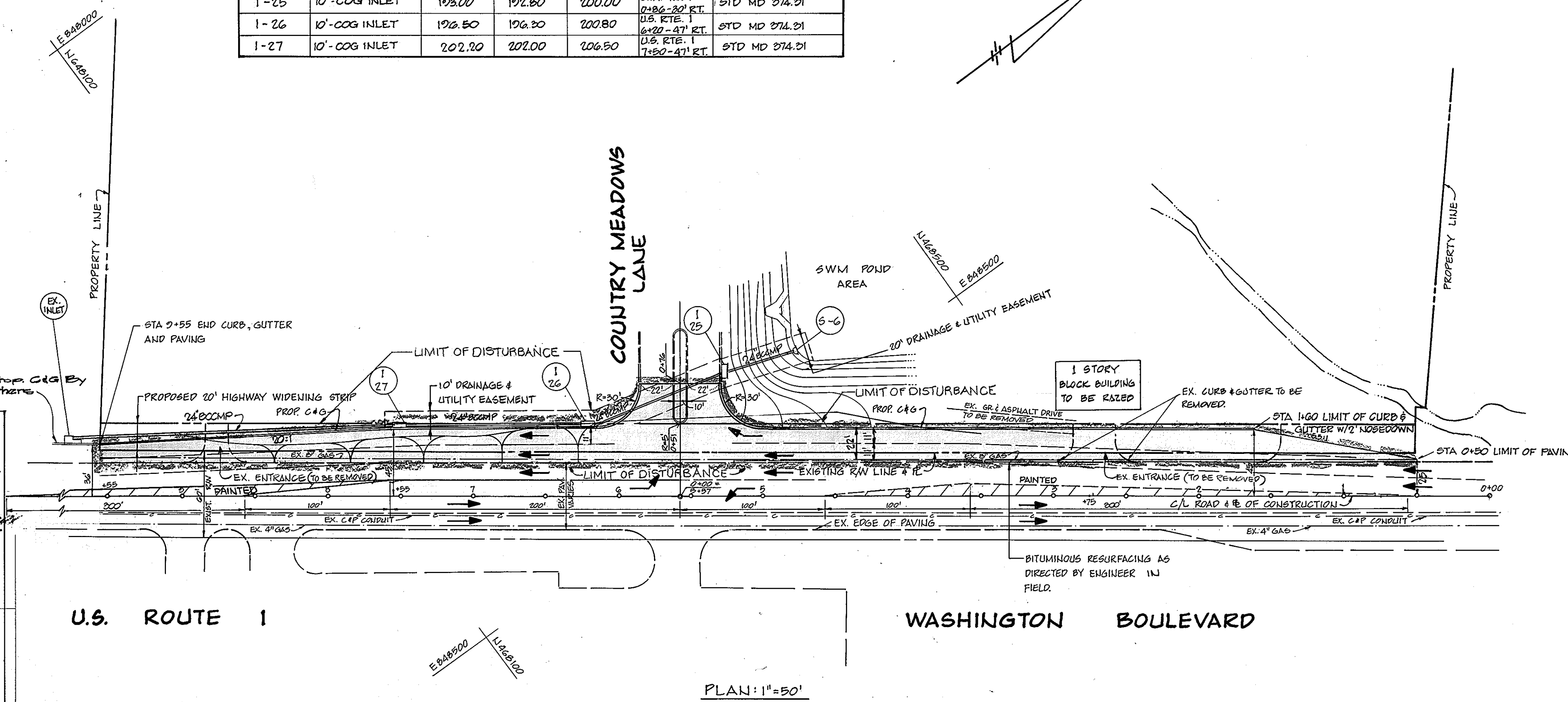


PLAN
SURVEYED, PLOTTED, CHECKED, RT. OF WAY CHECKED.
NOTE BOOK NO. _____
BY _____ DATE _____

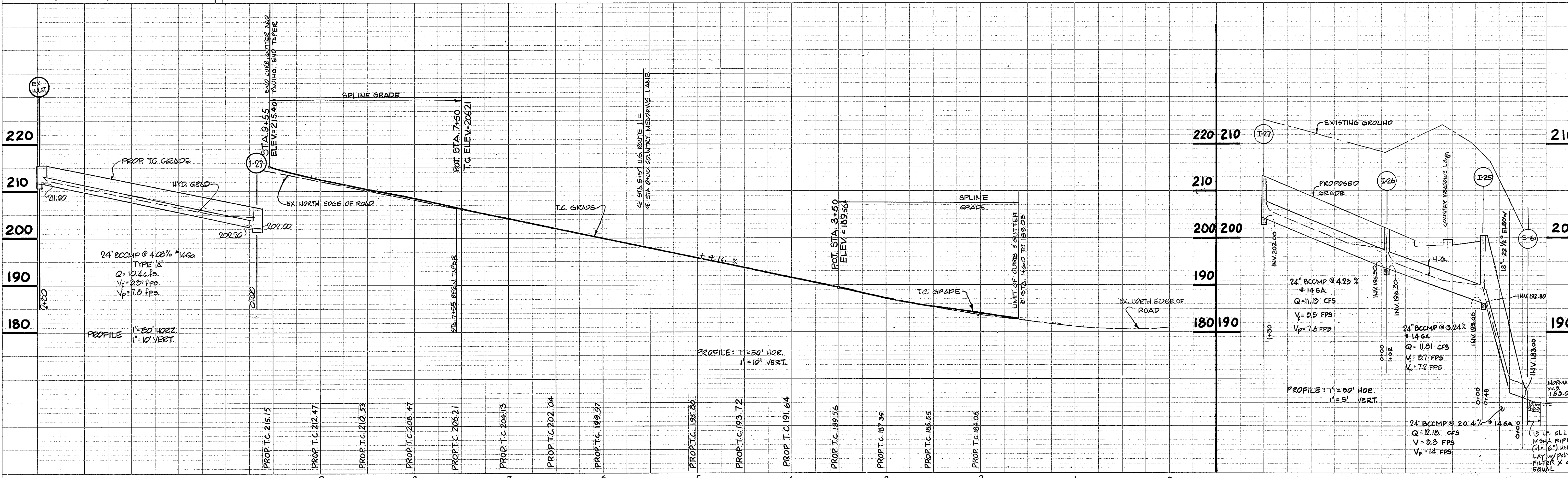
APPROVED
DEPARTMENT OF PUBLIC WORKS
CHIEF, LAND DEVELOPMENT DIVISION
DATE 1/22/88

APPROVED
CHIEF, BUREAU OF HIGHWAYS
DATE 1/25/88

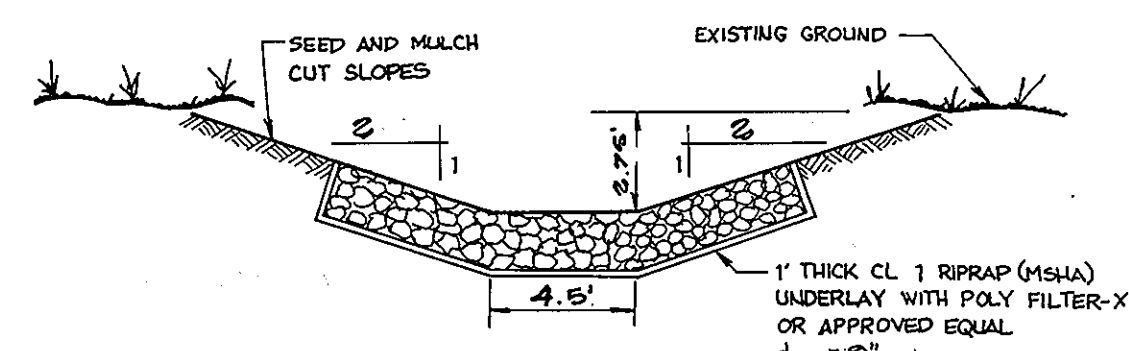
APPROVED
OFFICE OF PLANNING AND ZONING
DATE 1/25/88



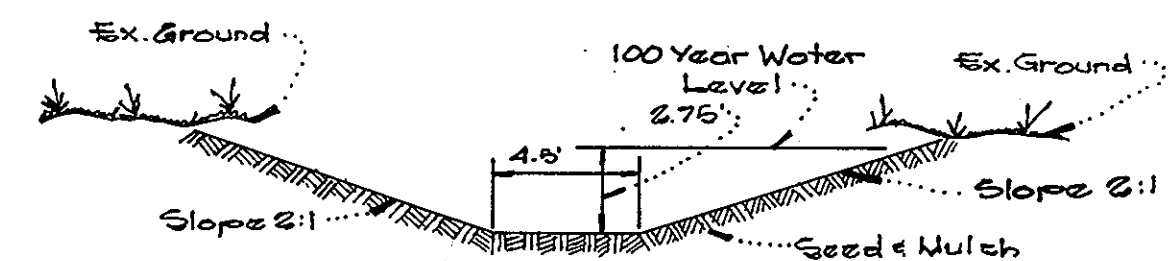
PROFILE
SURVEYED, PLOTTED, CHECKED, STRUCTURE NOTATIONS CHECKED.
NOTE BOOK NO. _____
BY _____ DATE _____



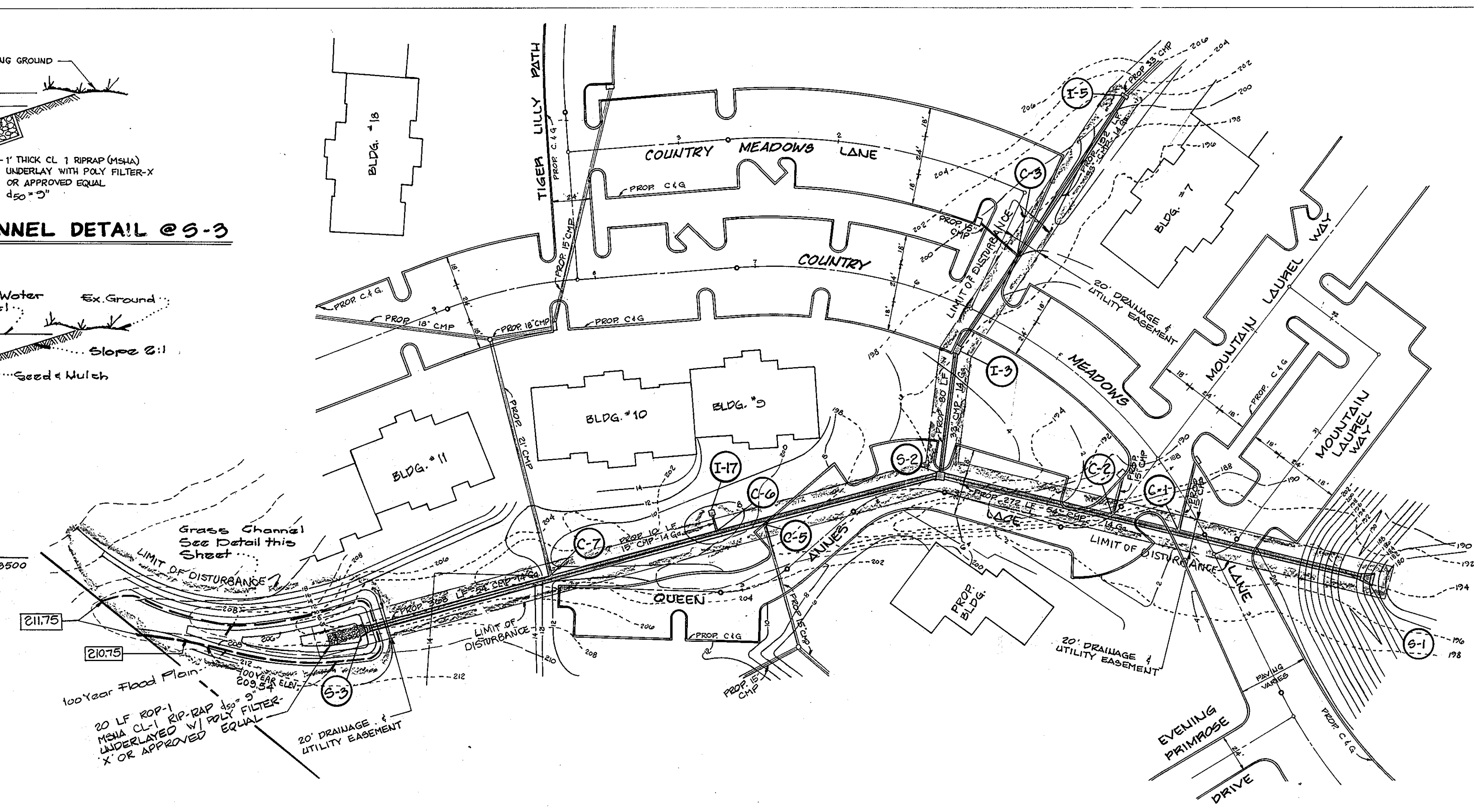
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RIPRAP TRAPEZOIDAL CHANNEL DETAIL @ S-3



Grass Channel
No Scale



PLAN: 1"=50'
PROFILE: 1"=50' HORIZ.
1"=5' VERT.

APPROVED DEPARTMENT OF PUBLIC WORKS
Paul H. F. / 1/22/88
 CHIEF, LAND DEVELOPMENT DIVISION
 DATE

Graville W. Weaver / 1/25/88
 CHIEF, BUREAU OF HIGHWAYS
 DATE

William S. Remy / 1-26-88
 CHIEF, BUREAU OF ENGINEERING
 DATE

APPROVED OFFICE OF PLANNING AND ZONING
Joseph R. Smith / 1/28/88
 CHIEF, DIVISION C Community Planning
 AND Land Development
 DATE

COUNTRY MEADOWS
PARCEL A
 6TH ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND

ROAD PLAN
WASHINGTON BOULEVARD
 (U.S. ROUTE 1)

OWNER AND DEVELOPER
 COUNTRY MEADOWS LIMITED PARTNERSHIP
 8930 BALTIMORE STREET
 SAVAGE, MARYLAND 20763

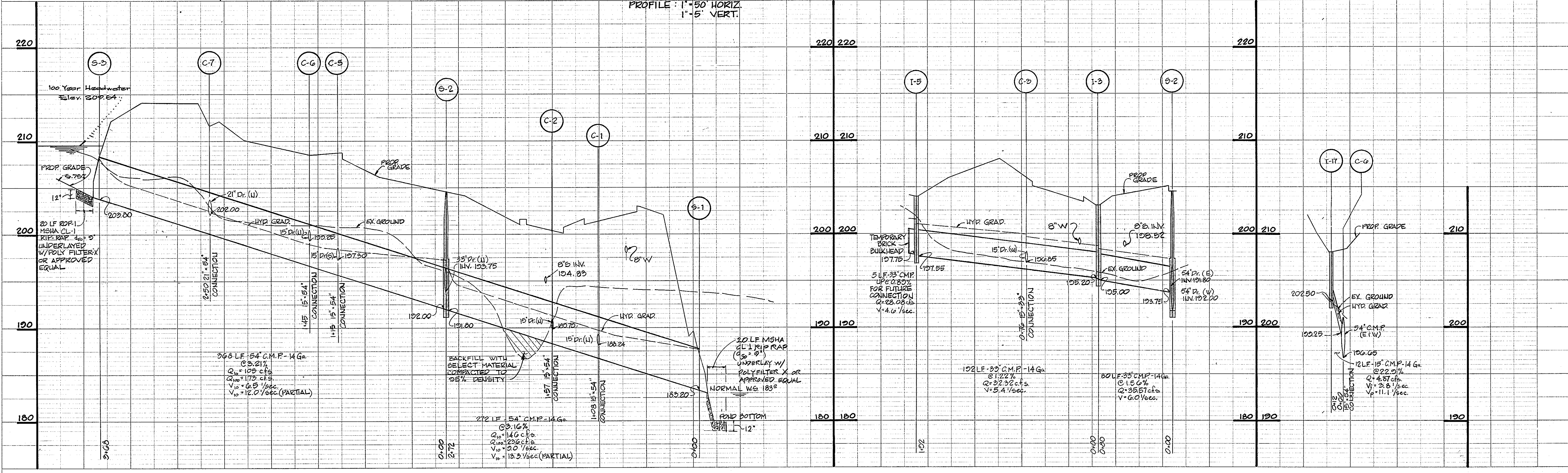
SCALE 1"=50' DATE 8/9/87 DWG. NO. 3 OF 5
 DES. K.L. DRN. M.A. CHK. D.M.

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



DATE	
BY	
PLAN	
SURVEYED	
PLOTTED	
NOTED	
STRUCTURE	
NO.	

DATE	
BY	
PROFILE	
SURVEYED	
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STRUCTURE	
NO.	



1340

POND CONSTRUCTION NOTES

PLANTING NOTES

I. SITE PREPARATION

Areas under the embankment and structural works shall be cleared, grubbed and the topsoil stripped to remove all trees, vegetation, roots or other objectionable material. To facilitate clean out and restoration, it is recommended that the permanent pool area be cleared of all brush and trees.

II. FILL TRENCH

The fill material shall be taken from approved designated borrow area or areas. It shall be free from roots, stumps, wood, rubbish, ore, stones, frozen or other objectionable materials. The embankment shall be constructed to an elevation which provides for anticipated settlement to the design elevation. The fill height all along the length of the embankment shall be increased at least 5 percent above the design elevation (including freeboard) unless otherwise shown on the plans. Compaction shall be accomplished with a vibratory roller.

Areas to which fill is to be placed shall be scarified prior to placement of fill. Fill materials shall be placed in 3-inch minimum thickness (before compaction) layers which are to be continuous over the entire length of the fill. The most porous borrow material shall be placed in the downstream portions of the embankment. After the initial stripping process is completed, areas of the site to receive fill should be proof rolled. Pond bottom shall be checked for permeability rate and soil type. Where specified, a core trench shall be excavated along or parallel to the centerline of the embankment as shown on the plans. The bottom width of the trench shall be governed by the contractor used for excavation, with the minimum width being four feet. The depth shall be at least four feet or as shown on the plans. The side slopes of the trench shall be 1 to 1 or flatter. The backfill material for the core trench shall be the most impervious material available and shall be compacted with equipment or rollers to assure maximum density and minimum permeability.

III. STRUCTURAL BACKFILL

Backfill material shall be of the type and quality conforming to that specified for the adjoining fill material. The fill shall be placed in horizontal layers not to exceed four inches in thickness and compacted by hand tampers or other compaction equipment. The material needs to fill completely all spaces under and adjacent to the pipe. At no time during the backfilling operation shall driven equipment be allowed to operate closer than four feet, measured horizontally, to any part of a structure. Under no circumstances shall the contractor drive equipment over any part of a concrete structure or pipe unless there is a compacted fill of twenty-four inches or greater over the structure or pipe.

IV. PIPE CONDITIONS

A. CORRUGATED METAL PIPE

- Materials - Metal Pipe - This pipe and its appurtenances shall conform to the requirements of AASHTO Specification M-195 or M-211, with watertight coupling bands.
- Connections - All connections with pipes must be completely watertight. The drain pipe or barrel connection to the control structure shall be mortared all around. Watertight coupling bands shall be used at all joints. Anti-seep collars shall be connected to the pipe in such a manner as to be completely watertight.
- Bedding - The pipe shall be firmly and uniformly bedded throughout its entire length. Where rock or soft, spongy or other unstable soil is encountered, all such material shall be removed and replaced with suitable earth compacted to provide adequate support.
- Laying pipe - The pipe shall be placed with inside circumferential laps pointing downstream and with the longitudinal laps at the sides.
- Backfilling shall conform to structural backfill as shown above.
- Other details (anti-seep collars, valves, etc.) shall be as shown on the drawings.

B. CONCRETE

Concrete shall meet minimum requirements set forth in Maryland State Highway Administration Specifications for Materials-Highways, Bridges, and Incidental Structures, Article 20.07 (Portland Cement Concrete Mixtures), mix No. 3.

C. STABILIZATION

All borrow areas shall be graded to provide proper drainage and left in a slightly condition. All exposed surfaces of the embankment, spillway and borrow areas shall be stabilized by seeding and applying straw mulch in accordance with Standards and Specifications for Soil Erosion and Sediment Control in Urbanizing Areas immediately after final grading.

All exposed areas of the embankment and pond shall be stabilized by:

- Spreading 4" topsoil
- Working in 1 ton of ground limestone and 1,000 pounds of 10-10-10 fertilizer per acre.
- Seed with 40 lbs./acre of "Kentucky 31" tall fescue, and 15 lbs./acre of Crowsfoot inoculated.
- Mulch with 1-1/2 tons straw per acre.
- The down slope with encliffed asphalt @ 348 gallons/acre.

- The proposed pond shall be constructed to the contour shown in plan and to the specifications as set forth in the pond construction notes.
- The pond bottom shall be temporarily graded no lower than elevation 183.00.
- After all disturbed areas upstream of the pond have been stabilized, sediment shall be removed and the pond graded to the finished contour as shown in plan.
- Plant the areas designated according to the planting schedule.
- Plants shall be set in clumps to an overall soil depth of 4 to 6 inches or to a depth to where the plant stem becomes a root and is level with the adjacent pond bottom.
- If planting is done before the pond is flooded, no more than 24 hours shall elapse after planting before the pond is flooded.
- Planting shall be done between December & June. Plants shall be healthy actively growing nursery stock.
- The remaining undesignated area shall be planted with a 50/50 mix of the primary species with clumps containing at least two or more individual plants at the rate of 40 clumps per acre.
- In addition to the primary species, the undesignated area shall be planted with 10 clumps per acre within 6 feet of the pond edge with plants from the secondary species. Clumps shall be spaced as far apart as possible and shall contain at least 5 individual plants each.

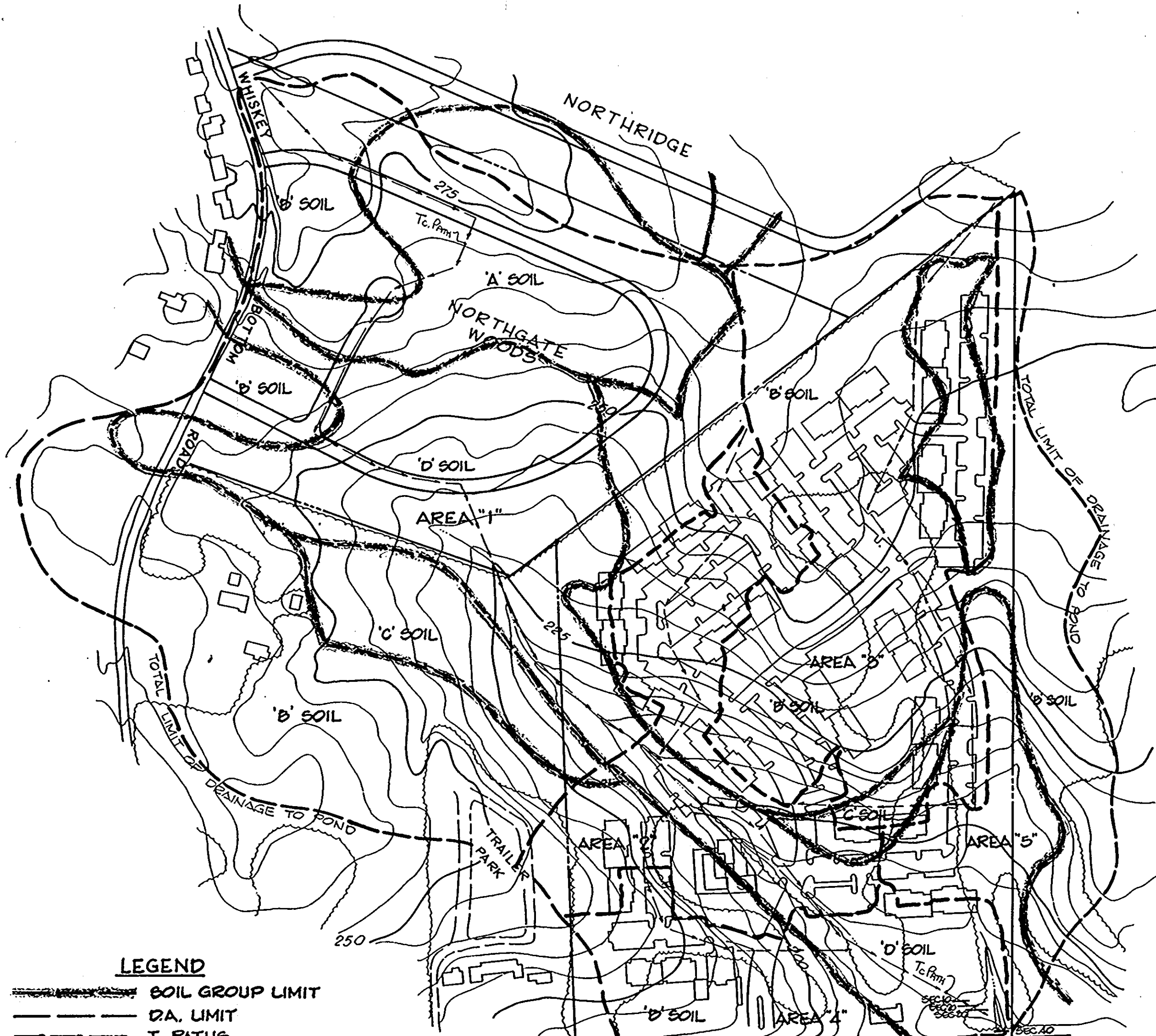
PLANTING SCHEDULE

PRIMARY SPECIES

-  SAGITTARIA LATIFOLIA (DUCK POTATO)
-  SCIRPUS AMERICANUS (SOFTSTEM BULRUSH)

SECONDARY SPECIES

- PELTANDRA VIRGINICA (ARROW-ARUM)
- PONTEDERIA CORDATA (PICKERELWEED)
- HIBISCUS MOSHEUTOS (MARSH HIBISCUS)

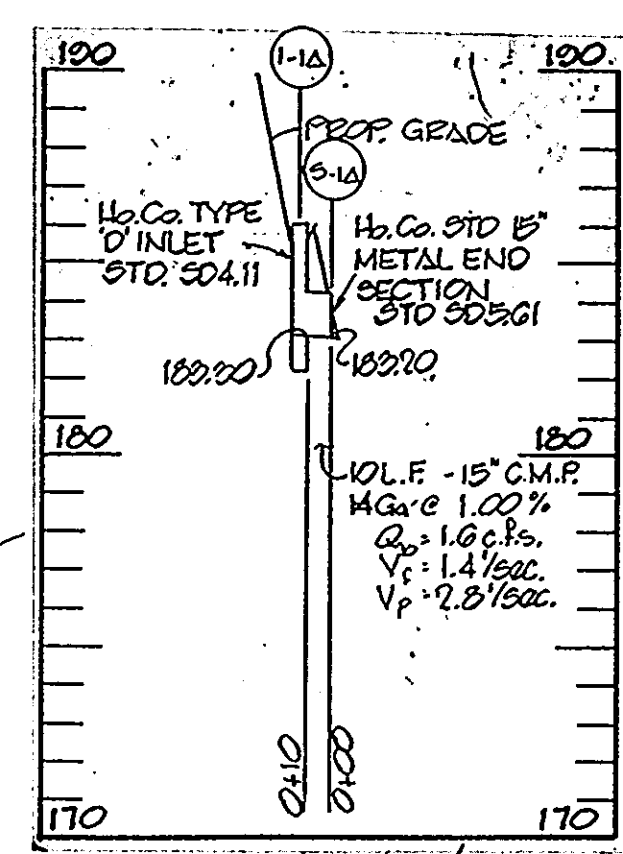


LEGEND
 --- SOIL GROUP LIMIT
 --- RA. LIMIT
 --- Tc PATHS

DESIGN SUMMARY
 STRUCTURE CLASS 'A'
 STORAGE HEIGHT PRODUCT = 47.4
 WATERBODIED AREA TO POND = 79.72 AC.
 LEVEL OF MANAGEMENT = 2, 10 & 4 COVE.

ALL PARCELS UPSTREAM OF THE SITE AND TRIBUTARY TO THE POND ARE CURRENTLY ZONED FOR 1/4 AC. LOTS.
 POND DESIGN IS BASED ON ULTIMATE UPSTREAM LAND USE.

DRAINAGE AREA MAP

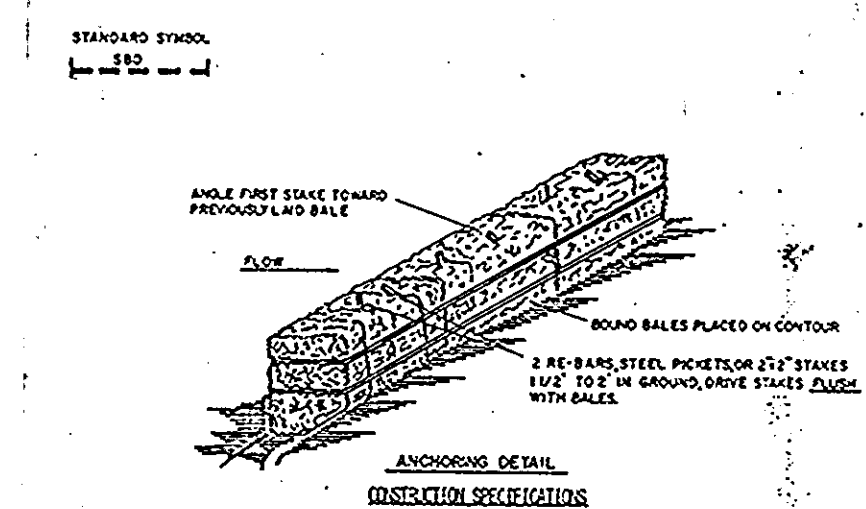
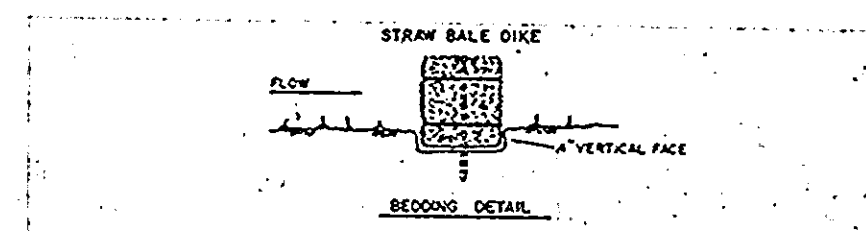


APPROVED DEPARTMENT OF PUBLIC WORKS
 CHIEF, LAND DEVELOPMENT DIVISION
 DATE: _____

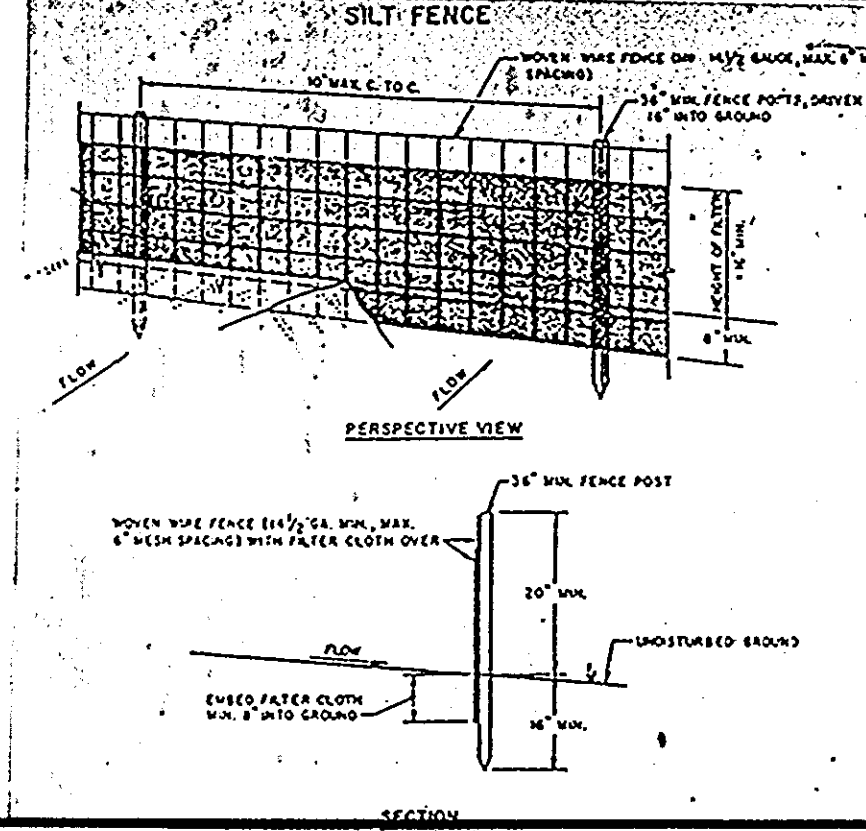
APPROVED DEPARTMENT OF PUBLIC WORKS
James M. McNeal 1/28/88
 CHIEF, BUREAU OF HIGHWAYS

APPROVED DEPARTMENT OF PUBLIC WORKS
William P. Reid 1-26-88
 CHIEF, BUREAU OF ENGINEERING

APPROVED OFFICE OF PLANNING AND ZONING
James R. Roth 1/28/88
 CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT



- Bales shall be placed at the toe of a slope or on the contour and in a row 9" deep directly abutting the adjacent bales.
- Bales shall be spaced in the soil a minimum of 6" inches, and placed so the openings are horizontal.
- Bales shall be securely anchored in place by either the stakes or rebar driven through the bales. The stakes shall be in an angle to force the bales together. Stakes shall be driven flush with the bales.
- Inspection shall be frequent and repair replacement shall be made promptly as needed.
- Bales shall be removed when they have served their usefulness so as not to block or impede storm flow or drainage.

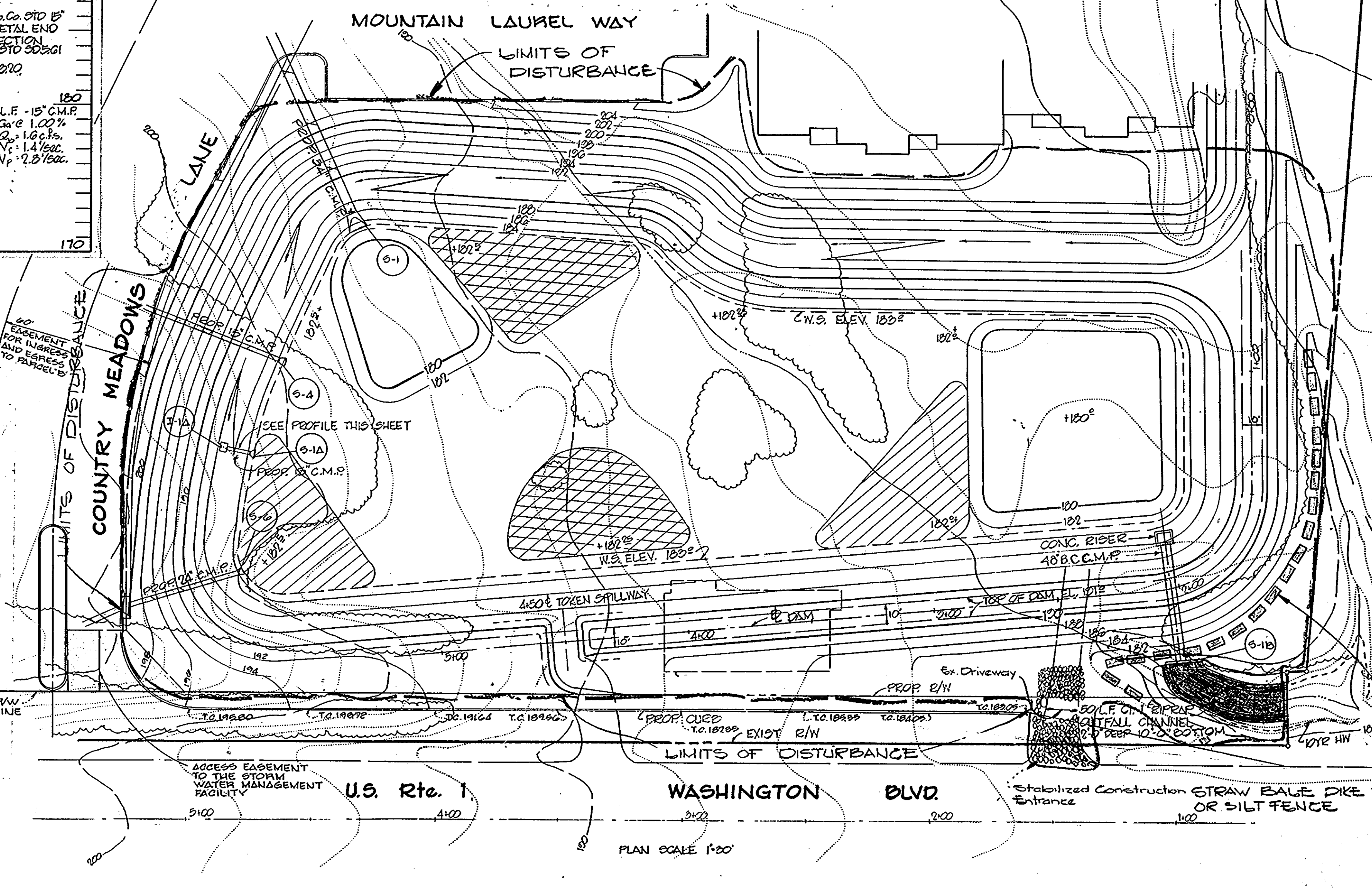


PERMANENT SEEDING NOTES:

APPLY TO GRADED OR CLEARED AREA NOT SUBJECT TO IMMEDIATE FURTHER DISTURBANCE WHERE A PERMANENT LONG-LIVED VEGETATIVE COVER IS NEEDED.
 SEEDING PREPARATION: LOOSEN UPPER THREE-INCHES OF SOIL BY RAKING, DISCING OR OTHER ACCEPTABLE MEANS BEFORE SEEDING. IF MOIST PREVIOUSLY LOOSENED SOIL REMAINS: IN LIEU OF SOIL TEST RECOMMENDATIONS, USE ONE OF THE FOLLOWING SCHEDULES:
 1) PREFERRED - APPLY 2 TONS PER ACRE ORLITHIC LIMESTONE (92 LBS/1000 SQ. FT.) AND 600 LBS PER ACRE 10-10-10 FERTILIZER (14 LBS/1000 SQ. FT.) BEFORE SEEDING. HARROW OR DISC INTO UPPER THREE-INCHES OF SOIL. AT TIME OF SEEDING, APPLY 500 LBS. PER ACRE 30-0-0 UREA/PACON FERTILIZER (9 LBS/1000 SQ. FT.).
 2) ACCEPTABLE - APPLY 2 TONS PER ACRE ORLITHIC LIMESTONE (92 LBS/1000 SQ. FT.) AND 1000 LBS PER ACRE 10-10-10 FERTILIZER (23 LBS/1000 SQ. FT.) BEFORE SEEDING. HARROW OR DISC INTO UPPER THREE-INCHES OF SOIL.
 SEEDING: FOR THE PERIOD MARCH 1 THROUGH APRIL 30, AND AUGUST 1 THROUGH OCTOBER 15, SEED WITH 20 LBS PER ACRE (14 LBS/1000 SQ. FT.) OF KENTUCKY 31 TALL FESCUE. FOR THE PERIOD MAY 1 THROUGH JULY 31, SEED WITH 40 LBS KENTUCKY 31 TALL FESCUE PER ACRE AND 2 LBS PER ACRE (1.4 LBS/1000 SQ. FT.) OF SEEDING LEGUMES. DURING THE PERIOD OF OCTOBER 15 THROUGH 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, OR USE 500 LBS PER ACRE OF WELL ANCHORED STRAW MULCH AND SEED AS SOON AS POSSIBLE IN THE SPRING, OR USE 500 LBS PER ACRE OF WELL ANCHORED STRAW MULCH WITH 2 TONS PER ACRE OF WELL ANCHORED STRAW MULCH. MULCHING: APPLY 14 TO 2 TONS PER ACRE (70 TO 90 LBS/1000 SQ. FT.) OF UNROTTED SMALL GRAIN STRAW IMMEDIATELY AFTER SEEDING. ANCHOR MULCH IMMEDIATELY AFTER APPLICATION USING MULCH ANCHORING TOOL OR 218 GAL PER ACRE (5 GAL/1000 SQ. FT.) OF EMULSIFIED ASPHALT ON FLAT AREAS. ON SLOPES 8 FEET OR HIGHER, USE 248 GALLONS PER ACRE (8 GAL/1000 SQ. FT.) FOR ANCHORING.
 MAINTENANCE: INSPECT ALL SEEDING AREAS AND MAKE NEEDED REPAIRS, REPLACEMENTS AND RESEEDINGS.
 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 MOIST PREVIOUSLY LOOSENED SOIL REMAINS: IN LIEU OF SOIL TEST RECOMMENDATIONS, USE ONE OF THE FOLLOWING SCHEDULES:
 1) PREFERRED - APPLY 600 LBS PER ACRE 10-10-10 FERTILIZER (14 LBS/1000 SQ. FT.) BEFORE SEEDING. HARROW OR DISC INTO UPPER THREE-INCHES OF SOIL. AT TIME OF SEEDING, APPLY 500 LBS PER ACRE 30-0-0 UREA/PACON FERTILIZER (9 LBS/1000 SQ. FT.).
 2) ACCEPTABLE - APPLY 2 TONS PER ACRE ORLITHIC LIMESTONE (92 LBS/1000 SQ. FT.) AND 1000 LBS PER ACRE 10-10-10 FERTILIZER (23 LBS/1000 SQ. FT.) BEFORE SEEDING. HARROW OR DISC INTO UPPER THREE-INCHES OF SOIL.
 SEEDING: FOR THE PERIOD MARCH 1 THROUGH APRIL 30, AND AUGUST 1 THROUGH OCTOBER 15, SEED WITH 20 LBS PER ACRE (14 LBS/1000 SQ. FT.) OF KENTUCKY 31 TALL FESCUE. FOR THE PERIOD MAY 1 THROUGH JULY 31, SEED WITH 40 LBS KENTUCKY 31 TALL FESCUE PER ACRE AND 2 LBS PER ACRE (1.4 LBS/1000 SQ. FT.) OF SEEDING LEGUMES. DURING THE PERIOD OF OCTOBER 15 THROUGH 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, OR USE 500 LBS PER ACRE OF WELL ANCHORED STRAW MULCH AND SEED AS SOON AS POSSIBLE IN THE SPRING, OR USE 500 LBS PER ACRE OF WELL ANCHORED STRAW MULCH WITH 2 TONS PER ACRE OF WELL ANCHORED STRAW MULCH. MULCHING: APPLY 14 TO 2 TONS PER ACRE (70 TO 90 LBS/1000 SQ. FT.) OF UNROTTED SMALL GRAIN STRAW IMMEDIATELY AFTER SEEDING. ANCHOR MULCH IMMEDIATELY AFTER APPLICATION USING MULCH ANCHORING TOOL OR 218 GAL PER ACRE (5 GAL/1000 SQ. FT.) OF EMULSIFIED ASPHALT ON FLAT AREAS. ON SLOPES 8 FEET OR HIGHER, USE 248 GALLONS PER ACRE (8 GAL/1000 SQ. FT.) FOR ANCHORING.
 MAINTENANCE: INSPECT ALL SEEDING AREAS AND MAKE NEEDED REPAIRS, REPLACEMENTS AND RESEEDINGS.
 REFER TO THE 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL FOR RATE AND METHODS NOT COVERED.

CONSTRUCTION NOTES FOR FABRICATED SILT FENCE

WOODEN WIRE FENCE TO BE FASTENED SECURELY TO FENCE POSTS WITH NAILS, TIES OR STAPLES.
 FILTER CLOTH TO BE FASTENED SECURELY TO WOODEN WIRE FENCE WITH TIES SPACED EVERY 24" AT TOP AND MID SECTION.
 WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVERLAPPED BY SIX INCHES AND FOLDED.
 MAINTENANCE SHALL BE PERFORMED AS NEEDED TO PREVENT SEDIMENT FROM ACCUMULATING BEHIND THE SILT FENCE.
 POSTS: STEEL EIDER T OR U TYPE OR 2" WOODEN
 FENCE: WOODEN WIRE, 15 GAL. MAX. PITCH OPENING
 FILTER CLOTH: FILTER W. RIFLEX 1000, STABIL-LOCK 1100 OR APPROVED EQUIV.
 FABRICATED UNIT: GEOPAS, ANTI-EROSION, OR APPROVED EQUIV.



REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS
James M. McNeal 1-14-88
 U.S. SOIL CONSERVATION SERVICE DATE

THIS DEVELOPMENT IS APPROVED FOR EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.
 APPROVED:
Robert W. Zichem 1-14-88
 DISTRICT HOWARD SOIL CONSERVATION DISTRICT DATE

DEVELOPER'S CERTIFICATE
 "I HEREBY CERTIFY THAT ALL DEVELOPMENT AND/OR CONSTRUCTION WILL BE DONE ACCORDING TO THESE PLANS, AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF NATURAL RESOURCES APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I WILL PROVIDE THE HOWARD SOIL CONSERVATION DISTRICT WITH AN AS-BUILT PLAN OF THE POND WITHIN 30 DAYS OF COMPLETION."
 SIGNATURE OF DEVELOPER: _____ DATE: 1/28/88

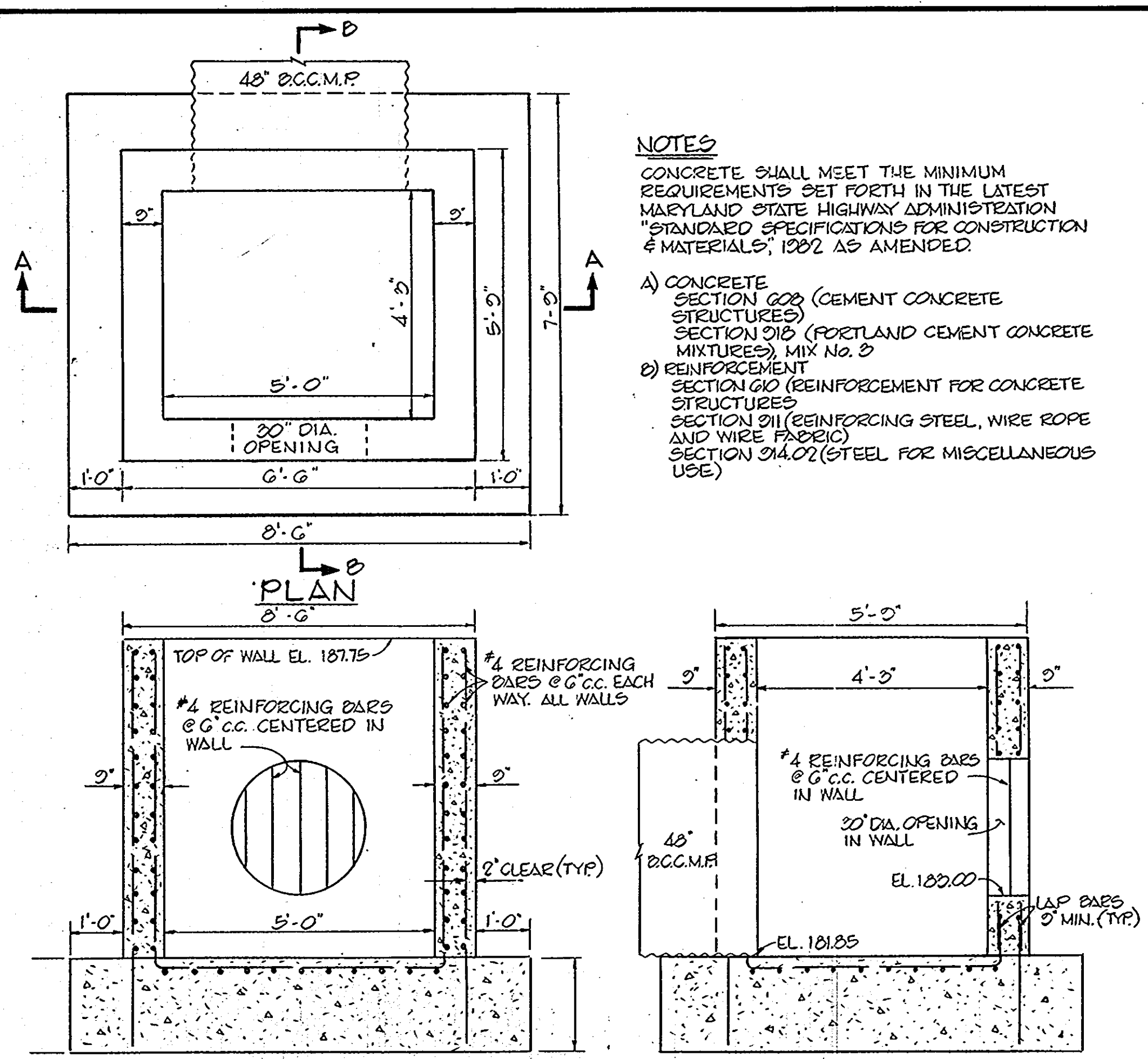
ENGINEER'S CERTIFICATE
 "I CERTIFY THAT THIS PLAN FOR POND CONSTRUCTION EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS. THIS PLAN WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT. I HAVE 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."
 SIGNATURE OF ENGINEER: _____ DATE: 1/28/88

STORM WATER MANAGEMENT COUNTRY MEADOWS PARCEL A
 6TH ELECTION DISTRICT
 TAX MAP 47, PARCEL 543
 HOWARD COUNTY, MARYLAND
 SCALE: AS SHOWN DATE: 8/6/87 SHEET 4 OF 5

1340

FISHER, COLLINS & CARTER, INC.
 CIVIL ENGINEERS & LAND SURVEYORS
 8388 COURT AVENUE
 ELLICOTT CITY, MARYLAND 21043
 (301) 461-2855

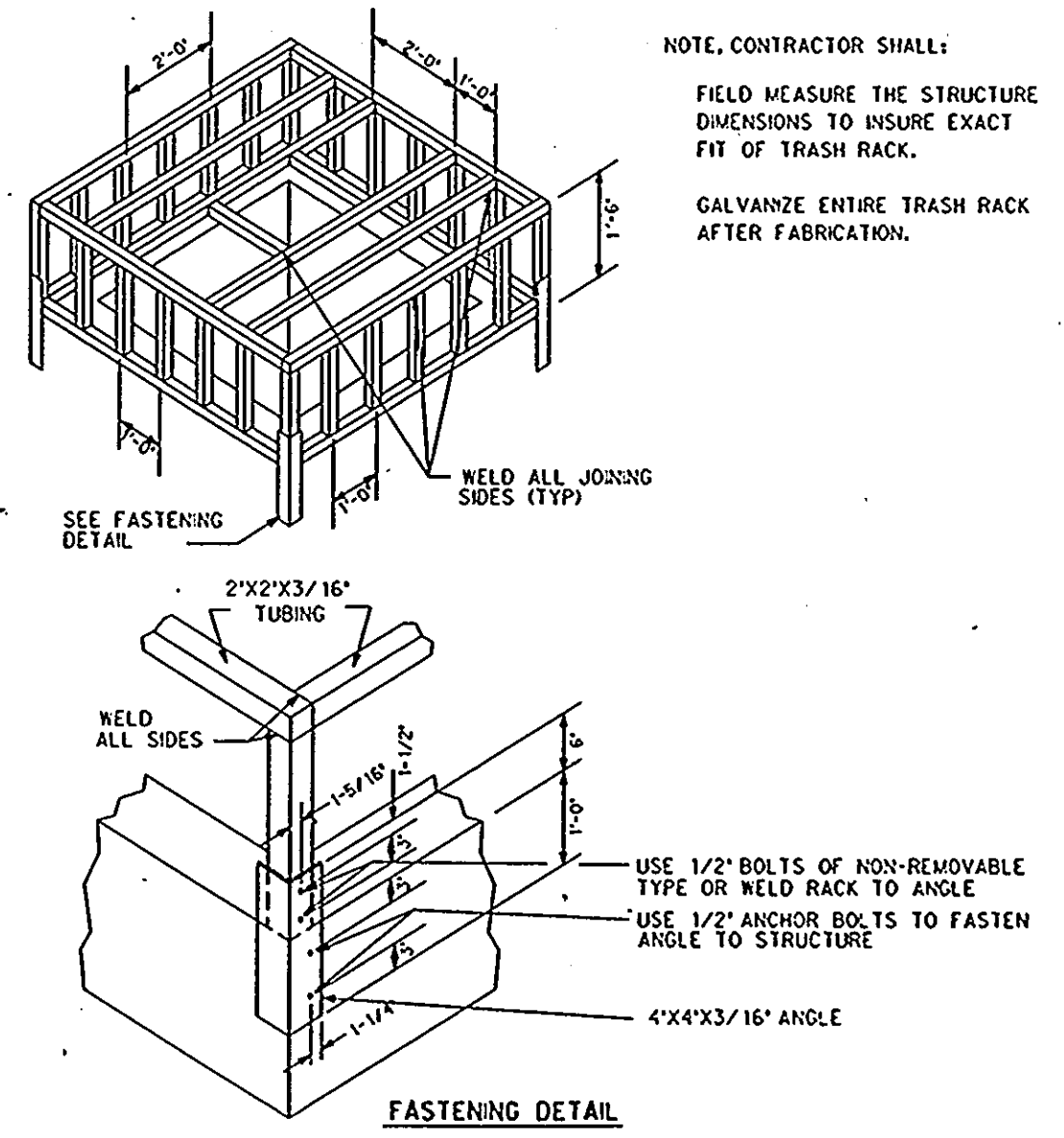




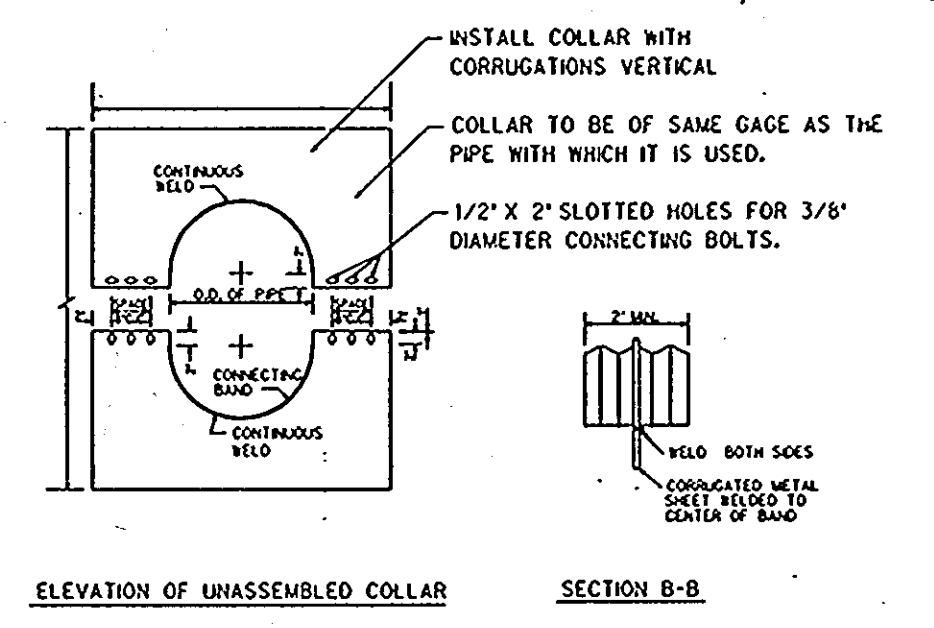
NOTES
 CONCRETE SHALL MEET THE MINIMUM REQUIREMENTS SET FORTH IN THE LATEST MARYLAND STATE HIGHWAY ADMINISTRATION "STANDARD SPECIFICATIONS FOR CONSTRUCTION & MATERIALS", 1992 AS AMENDED.

A) CONCRETE SECTION 608 (CEMENT CONCRETE STRUCTURES)
 SECTION 612 (PORTLAND CEMENT CONCRETE MIXTURES) MIX No. 2

B) REINFORCEMENT SECTION 610 (REINFORCEMENT FOR CONCRETE STRUCTURES)
 SECTION 611 (REINFORCING STEEL, WIRE ROPE AND WIRE FABRIC)
 SECTION 614.02 (STEEL FOR MISCELLANEOUS USE)



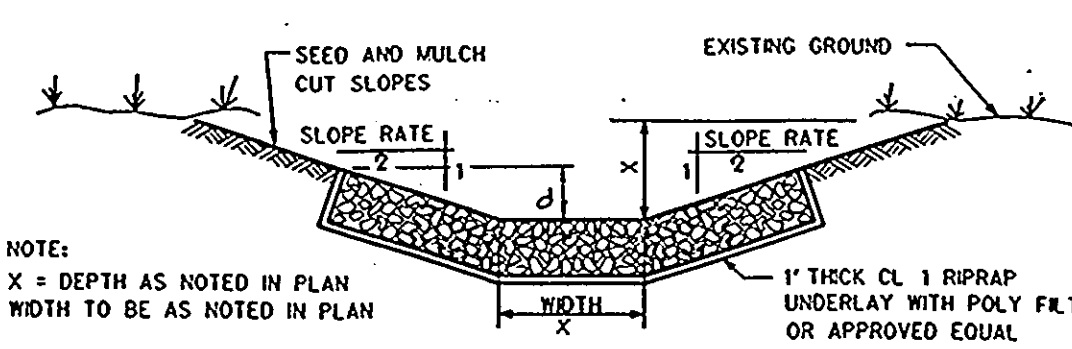
TRASH RACK DETAIL FOR RECTANGULAR CONCRETE RISER



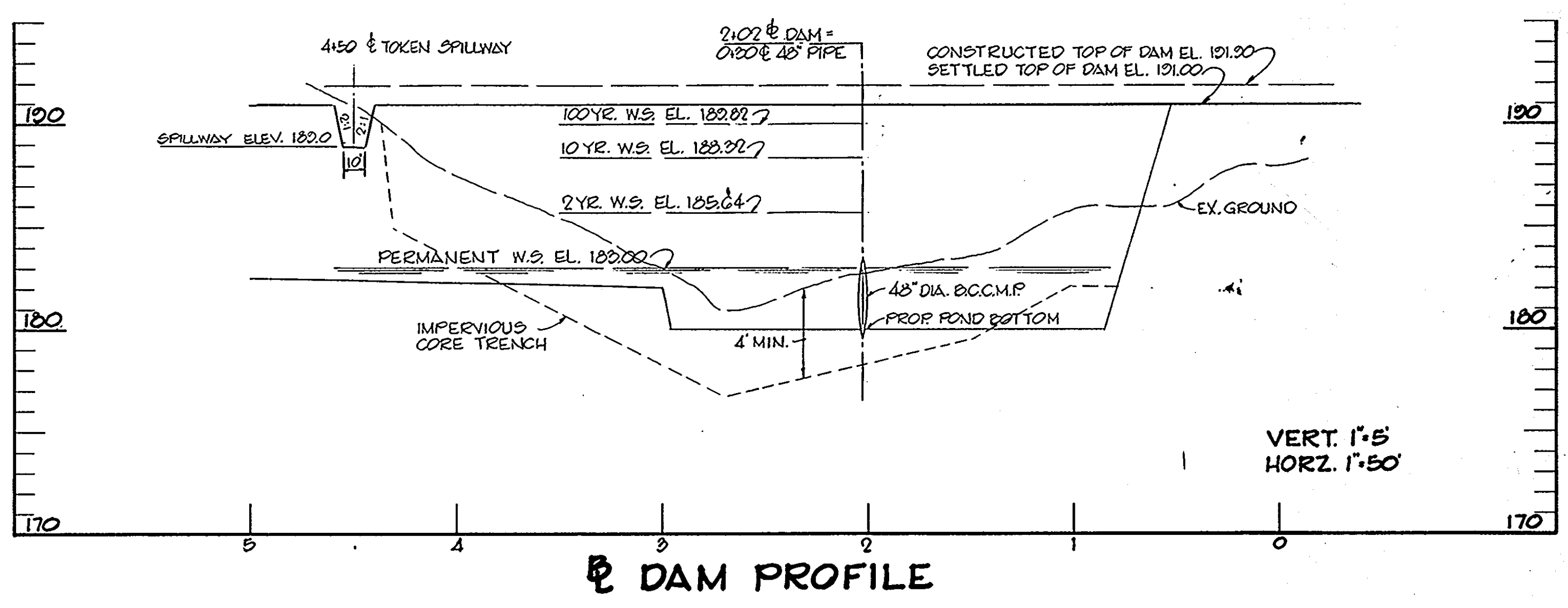
NOTES FOR COLLARS:

1. ALL MATERIALS TO BE IN ACCORDANCE WITH CONSTRUCTION AND CONSTRUCTION MATERIAL SPECIFICATIONS.
2. WHEN SPECIFIED ON THE PLANS, COATING OF COLLARS SHALL BE IN ACCORDANCE WITH CONSTRUCTION AND CONSTRUCTION MATERIAL SPECIFICATIONS.
3. UNASSEMBLED COLLARS SHALL BE MARKED BY PAINTING OR TAGGING TO IDENTIFY MATCHING PARTS.
4. THE LAP BETWEEN THE TWO HALF SECTIONS AND BETWEEN THE PIPE AND CONNECTING BAND SHALL BE CAULKED WITH ASPHALT MASTIC AT THE TIME OF INSTALLATION.
5. EACH COLLAR SHALL BE FURNISHED WITH TWO 1/2" DIAMETER RODS WITH STANDARD TANK LUGS FOR CONNECTING COLLARS TO PIPE.

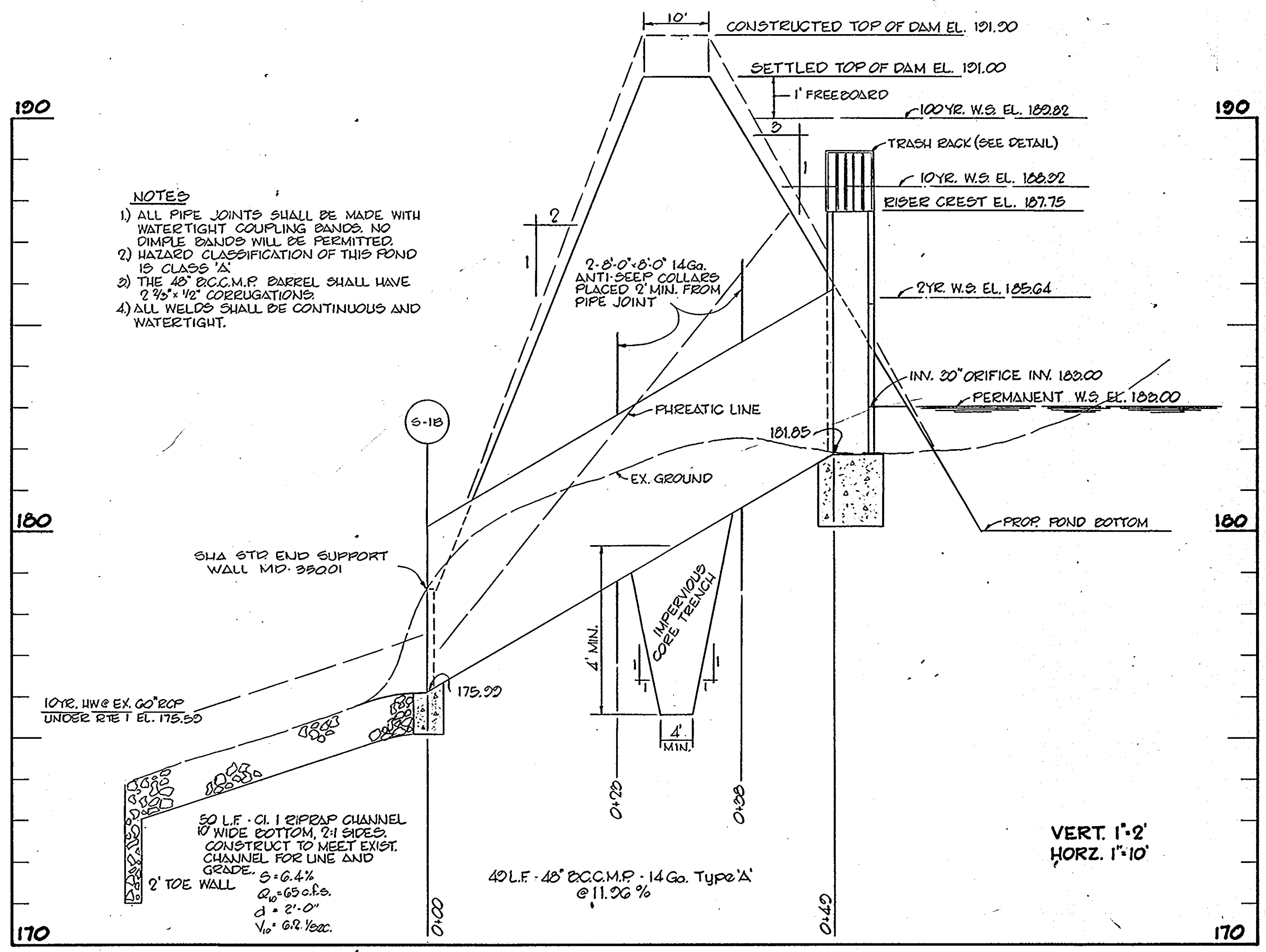
CORRUGATED METAL ANTI-SEEP COLLAR DETAIL



RIPRAP TRAPEZOIDAL CHANNEL DETAIL



☉ DAM PROFILE



☉ BARREL PROFILE

NOTES

- 1) ALL PIPE JOINTS SHALL BE MADE WITH WATER-TIGHT COUPLING BANDS. NO GIMPLE BANDS WILL BE PERMITTED.
- 2) HAZARD CLASSIFICATION OF THIS POND IS CLASS 'A'.
- 3) THE 48" D.C.C.M.P. BARREL SHALL HAVE 2 1/2" x 1/2" CORRUGATIONS.
- 4) ALL WELDS SHALL BE CONTINUOUS AND WATER-TIGHT.

- CONSTRUCTION SEQUENCE:**
1. OBTAIN GRADING PERMIT.
 2. CONSTRUCT STABILIZED CONSTRUCTION ENTRANCE AND STRAW/BALE DIKES/SILT FENCE AS SHOWN ON PLAN.
 3. NO GRADING, CAN BEGIN UNLESS PIPES AND APPURTENANCES NECESSARY TO FULLY CONSTRUCT THE STORM WATER MANAGEMENT POND ARE DELIVERED TO THE JOB SITE.
 4. STABILIZE THESE AREAS WITH TEMPORARY SEEDING. THE ORIFICE PIPE ON THE POND SHALL BE BLOCKED IN ACCORDANCE WITH THE DETAIL ON THIS SHEET. THE PIPE SHALL REMAIN BLOCKED UNTIL SUCH TIME WHEN THE SEDIMENT BASIN TRANSITIONS TO FUNCTION AS A STORM WATER MANAGEMENT POND.
 5. THE SITE SHALL BE GRADED IN ACCORDANCE WITH THE SITE DEVELOPMENT PLAN SDP 88-35.
 6. THE CONTRACTOR SHALL INSPECT AND PROVIDE NECESSARY MAINTENANCE ON THE SEDIMENT AND EROSION CONTROL STRUCTURES SHOWN HEREON, AFTER EACH RAINFALL AND ON A DAILY BASIS. SEDIMENT SHALL BE REMOVED FROM THE POND WHEN THE CLEANOUT ELEVATION 183.5 HAS BEEN REACHED.
 7. THE POND SHALL BE Dewatered BY PUMPING. THE SEDIMENT FROM THE POND SHALL BE PLACED UP-GRADE FROM THE POND IN SUCH A MANNER AS NOT TO INTERFERE WITH CONSTRUCTION OPERATIONS OR CAUSE EROSION DOWNGRADE FROM THE POND.
 8. REMOVE STONE CONSTRUCTION ENTRANCE AND STRAW BALE DIKE/SILT FENCE.
 9. ALL DISTURBED AREAS DUE TO REMOVAL OF SEDIMENT CONTROL MEASURES SHALL BE GRADED AND STABILIZED BY PERMANENT SEEDING.
 10. REMOVE STONE BLOCKING DEVICE AND ACCUMULATED SEDIMENT FROM THE STORMWATER MANAGEMENT POND. THE POND SHALL BE GRADED IN ACCORDANCE WITH THIS PLAN AND STABILIZED USING PERMANENT SEEDING.
 11. FOLLOWING INITIAL SOIL DISTURBANCE OR REDISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN A) 7 CALENDAR DAYS FOR ALL PERIMETER SEDIMENT CONTROL STRUCTURES, DIKES, SMALES, DITCH PERIMETER SLOPES AND ALL SLOPES GREATER THAN 3:1; B) 14 DAYS FOR ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE.
 12. NOTIFY HOWARD COUNTY OFFICE OF INSPECTION AND PERMITS FOR FINAL INSPECTION AT DURATION OF PROJECT.

APPROVED DEPARTMENT OF PUBLIC WORKS
 CHIEF, LAND DEVELOPMENT DIVISION
 DATE 1/22/88

APPROVED DEPARTMENT OF PUBLIC WORKS
 CHIEF, BUREAU OF HIGHWAYS
 DATE 1/22/88

APPROVED DEPARTMENT OF PUBLIC WORKS
 CHIEF, BUREAU OF ENGINEERING
 DATE 1/22/88

APPROVED OFFICE OF PLANNING AND ZONING
 DATE 1/22/88

FISHER, COLLINS & CARTER, INC.
 CIVIL ENGINEERS & LAND SURVEYORS
 8388 COURT AVENUE
 ELLICOTT CITY, MARYLAND 21043
 (301) 461-2855

REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS
 DATE 1-14-88
 U.S. SOIL CONSERVATION SERVICE

THIS DEVELOPMENT IS APPROVED FOR EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.
 APPROVED: [Signature] DATE 1-14-88
 DISTRICT HOWARD SOIL CONSERVATION DISTRICT

DEVELOPER'S CERTIFICATE
 "I HEREBY CERTIFY THAT ALL DEVELOPMENT AND/OR CONSTRUCTION WILL BE DONE ACCORDING TO THESE PLANS, AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF NATURAL RESOURCES APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I WILL PROVIDE THE HOWARD SOIL CONSERVATION DISTRICT WITH AN AS-BUILT PLAN OF THE POND WITHIN 30 DAYS OF COMPLETION."
 SIGNATURE OF DEVELOPER [Signature] DATE 1/13/88

ENGINEER'S CERTIFICATE
 "I CERTIFY THAT THIS PLAN FOR POND CONSTRUCTION EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS. THIS PLAN WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT. I HAVE NOTIFIED THE DISTRICT ENGINEER THAT I HAVE PROVIDED THE HOWARD SOIL CONSERVATION DISTRICT WITH AN "AS BUILT" PLAN OF THE POND WITHIN 30 DAYS OF COMPLETION."
 SIGNATURE OF ENGINEER [Signature] DATE 1/13/88
 PROFESSIONAL ENGINEER

STORM WATER MANAGEMENT COUNTRY MEADOWS
 PARCEL A
 6TH ELECTION DISTRICT
 TAX MAP 47, PARCEL 543
 HOWARD COUNTY, MARYLAND

SCALE: AS SHOWN DATE: 8/5/87 SHEET 5 OF 5

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