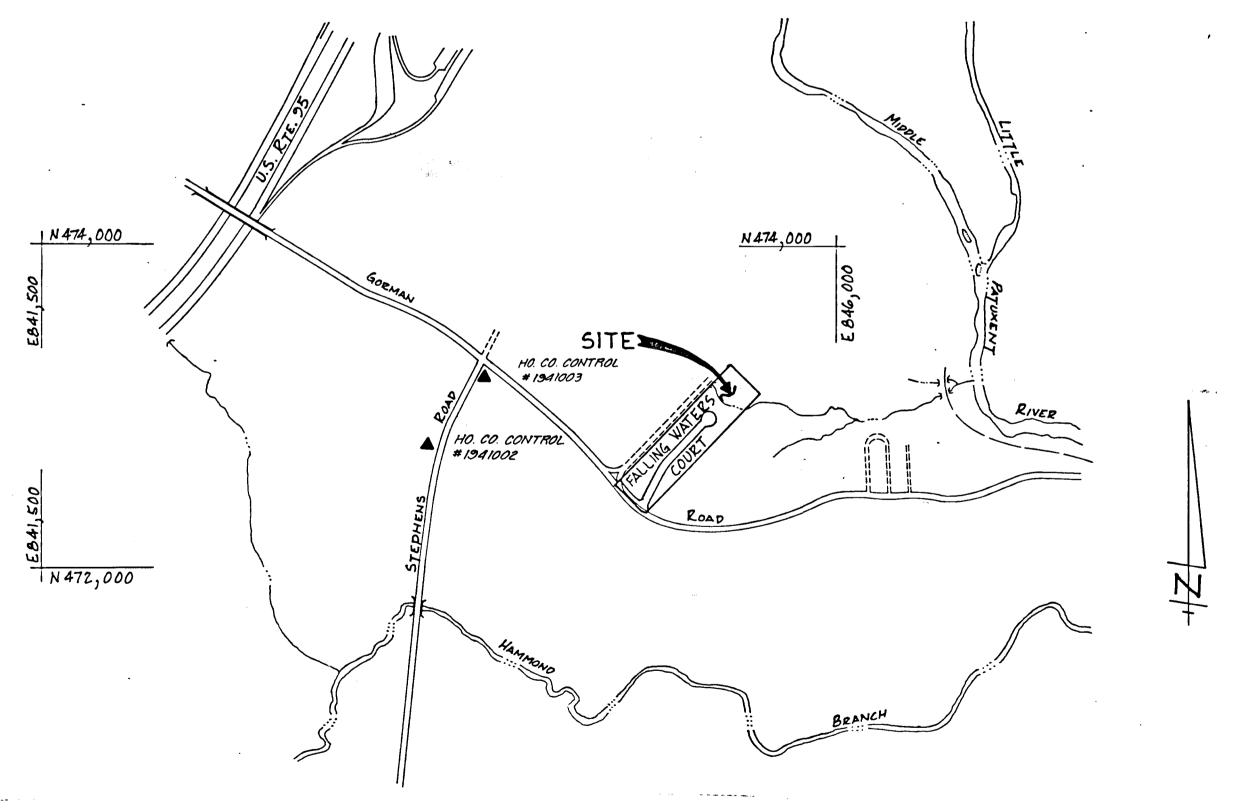
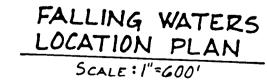
# FALLING WATERS COURT DEPARTMENT OF PUBLIC WORKS 6th election district HOWARD COUNTY, MARYLAND

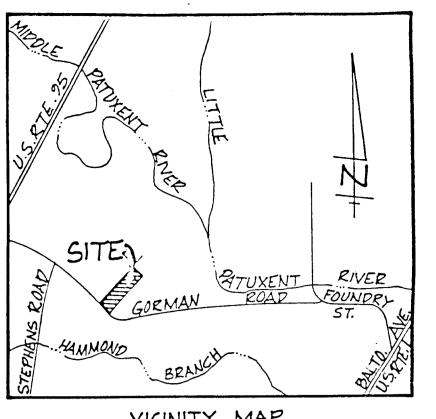
### GENERAL NOTES

- 1. All work shall be performed in accordance with the Howard County Design Volume IV, "Standard Details and Specifications for Construction."
- 2. 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.
- The contractor shall test pit existing utilities, where directed by the engineer, a minimum of two weeks in advance of construction operations.
- 4. Contractor to notify "Miss Utility" phone (1) 539-0100 at least three (3) days before starting work shown on this/these drawing(s).
- 5. Installation of traffic control devices, marking and signing shall be in accordance with the Manual of Uniform Traffic Control Devices 1978 OR LATEST REVISION.
- 6. Designed traffic speed in accordance with the Howard County Design Manual Volume III Standards. 30 MPH.
- 7. All elevations shown are based on U.S.C. and G.S. mean sea level datum 1929.
- 8. All coordinates based on Maryland state grid system.
- 9. Pipe shall not be installed by the contractor until the length called for at each station has been approved by the engineer in the field.
- 10. Contractor to restore all existing paving, sidewalks or lawns affected by the construction shown hereon to a condition comparable to that existing prior to construction.
- 12. All storm drain bedding to be class C except where otherwise noted.



NO.	INDEX OF SHEETS		
1	TITLE SHEET		
2	FALLING WATERS COURT ROAD - PLAN & PROFILE		
3	GORMAN ROAD - PLAN & PROFILE		
4	ROADWAY SECTIONS		
5	DRAINAGE AREA MAPS		
6	STORM DRAIN - PLAN & PROFILE		
7	STORM WATER MANAGEMENT POND		
8	SEDIMENT CONTROL PLAN		
9	SEDIMENT CONTROL DETAILS		





VICINITY MAP SCALE:1"=2000'

HORIZONTAL É VERTICAL CONTROL LISED: (1) HO. CO. CONTROL # 1941003 (2) HO. CO. CONTROL # 1941002

DEPARTMENT OF PLANNING AND ZONING 8-25.27 DEPARTMENT OF PUBLIC WORKS: HOWARD COUNTY, MARYLAND

> Revision Description OWNER AND DEVELOPER THE ARUNDEL CORPORATION 110 WEST RD. TOWSON,MD.21204 301-296-6400

FALLING WATERS
PARCELS 82 8 83 TAX MAP 47 6TH ELECTION DISTRICT HOWARD CO., MD.

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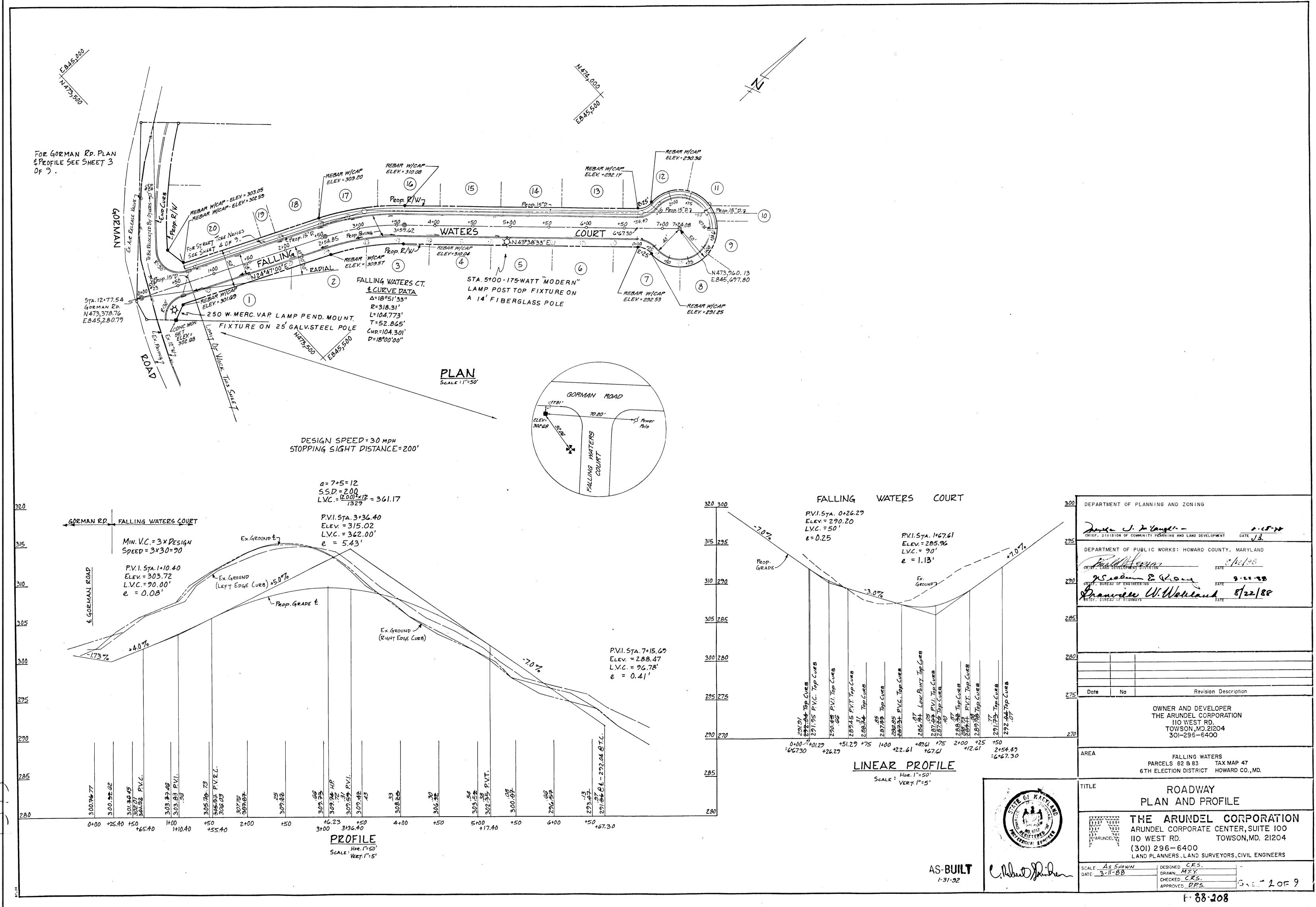
TITLE SHEET

THE ARUNDEL CORPORATION ARUNDEL CORPORATE CENTER, SUITE 100 IIO WEST RD. TOWSON, MD. 21204

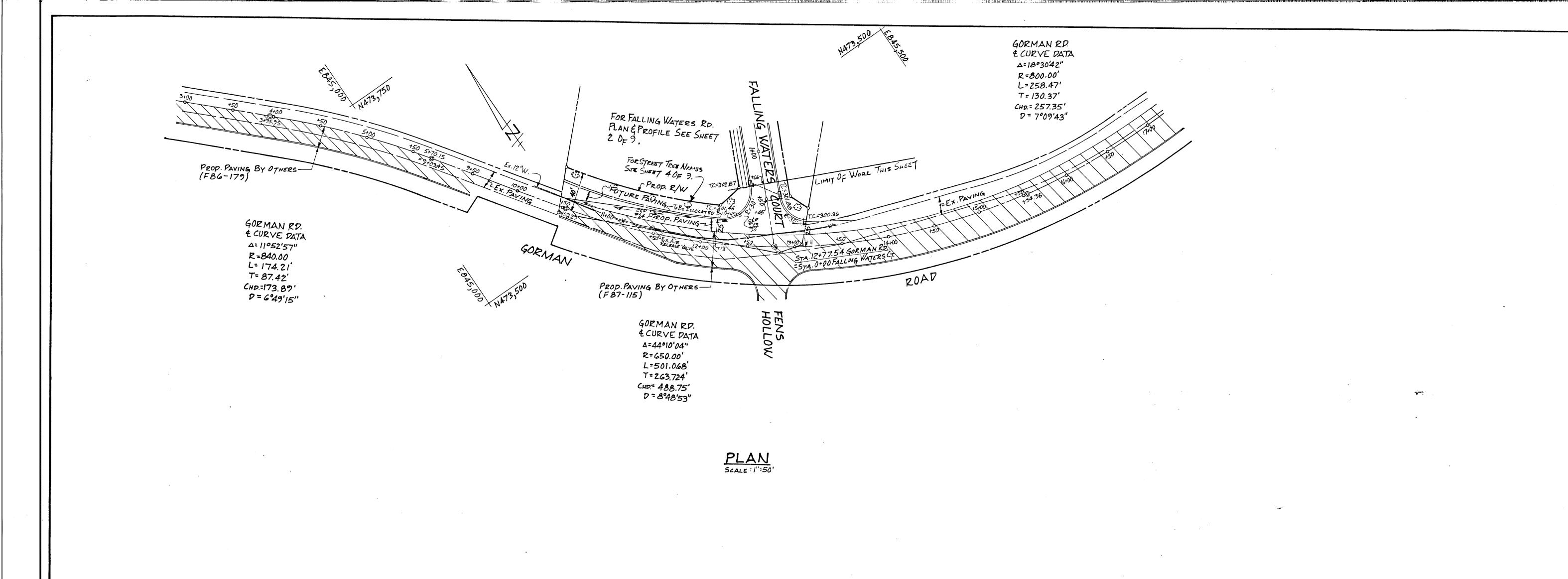
(301) 296-6400 LAND PLANNERS, LAND SURVEYORS, CIVIL ENGINEERS DESIGNED CRS.
DRAWN MTY.
CHECKED CRS.
APPROVED DPS.

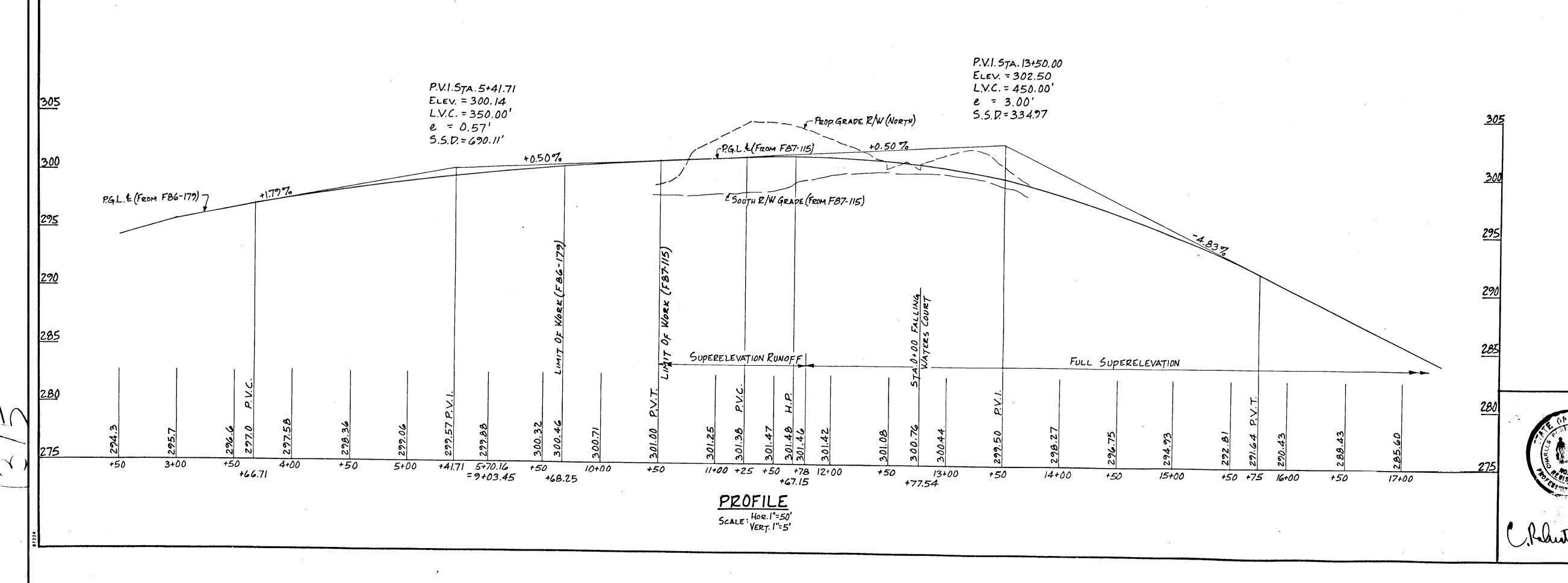
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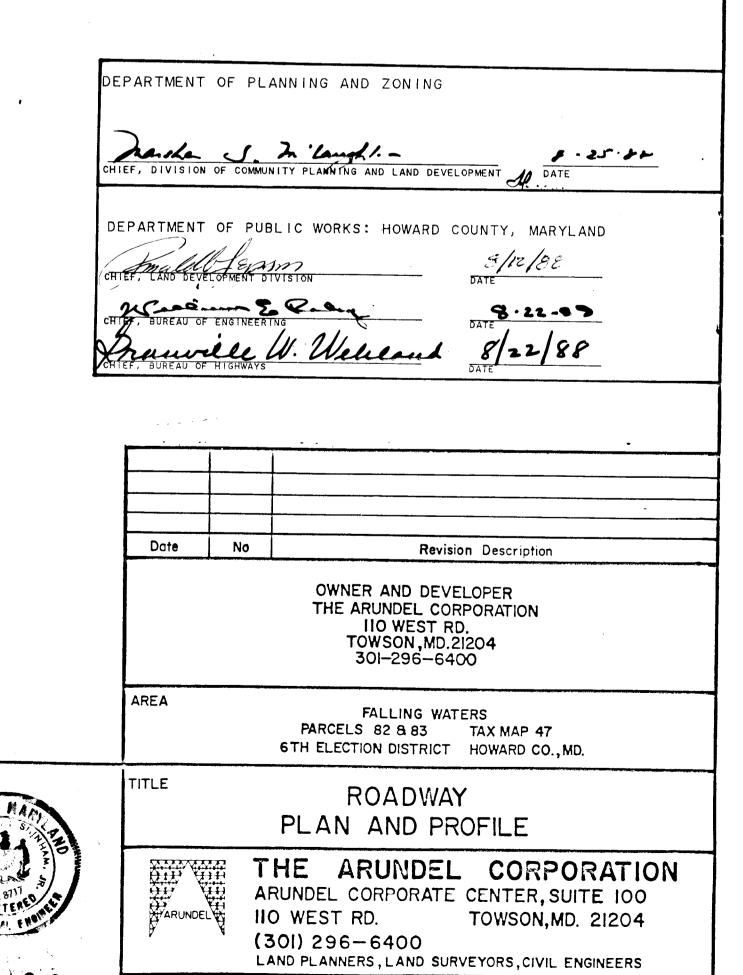
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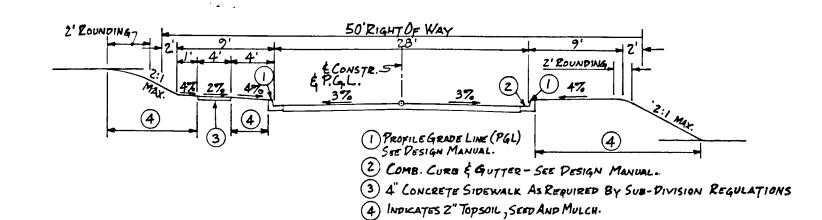




DESIGNED C.R.S.
DRAWN M.T.Y.
CHECKED C.R.S.
APPROVED P.S.

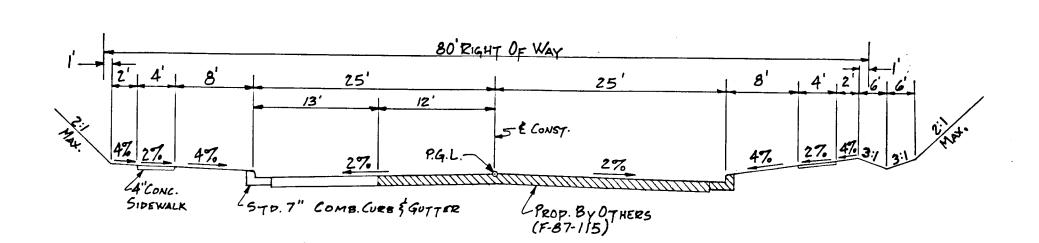
SHEET 3 OF 9

SCALE AS SHOWN DATE: 3-11-88



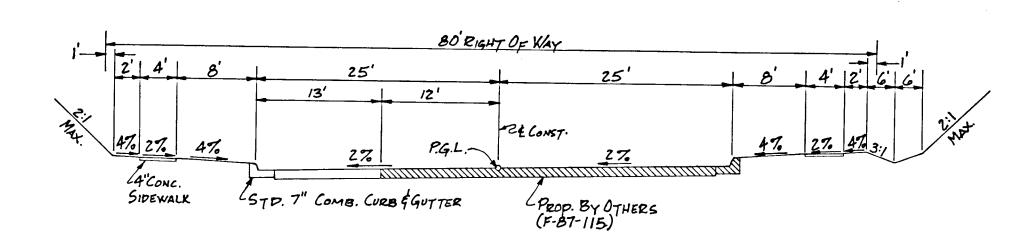
### TYPICAL SECTION-FALLING WATERS CT.

NOT TO SCALE (STA. 0+66 TO STA. 6+67.30)



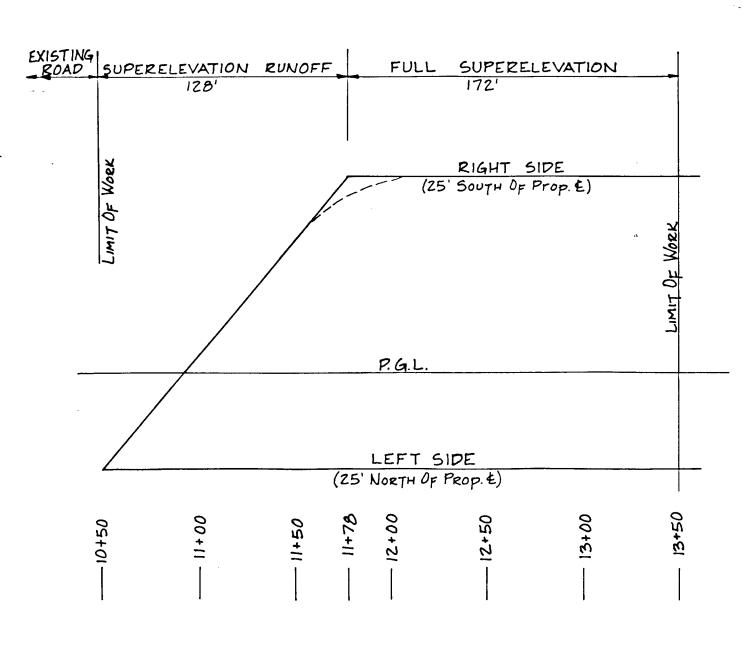
## NORMAL SECTION-GORMAN ROAD

NOT TO SCALE (STA.9+03.45 TO STA 10+50)



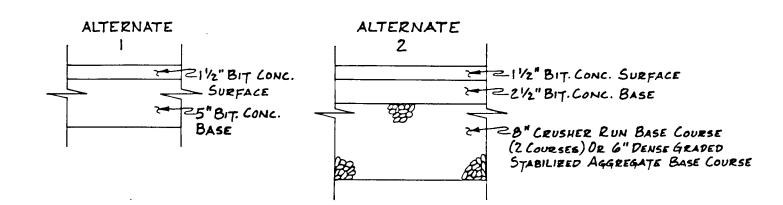
## SUPERELEVATION SECTION-GORMAN ROAD

NOT TO SCALE (STA.11+78 TO STA.17+75)



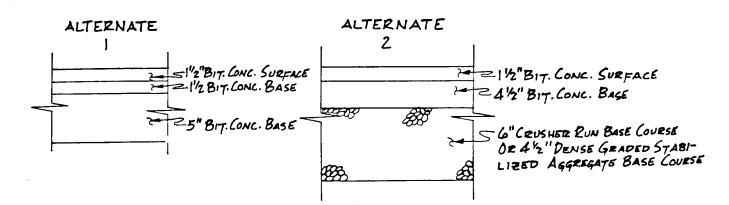
### SUPERELEVATION ATTAINMENT PIAGRAM

NOT TO SCALE



### PAVING SECTION

NOT TO SCALE (FALLING WATERS COURT)



### PAVING SECTION

NOT TO SCALE (GORMAN ROAD)

STREET TREES

PLANT 42 STREET TREES AS LOCATED ON PLAN. TREES SHALL HAVE A MINIMUM TRUNK DIAMETER OF 2 1/2" MEASURED AT ONE FOOT ABOVE GROUND LEVEL. ACCEPTABLE VARIETIES ARE:

BOTANICAL NAME

ACER RUBRUM
FAGUS GRANDIFLORA
LIQUIDAMBER STYRACIFLUA
QUERCUS ACUTISSIMA
QUERCUS PALUSTRIS
QUERCUS RUBRA

COMMON NAME RED MAPLE AMERICAN BEECH SWEET GUM SAWTOOTH OAK PIN OAK N. RED OAK

NO MORE THAN 25 OF ANY ONE VARIETY MAY BE PLANTED.

DEPARTMENT OF PLANNING AND ZONING DEPARTMENT OF PUBLIC WORKS: HOWARD COUNTY, MARYLAND

Date	No	Revision Description
	(	OWNER AND DEVELOPER THE ARUNDEL CORPORATION IIO WEST RD. TOWSON,MD.21204 301-296-6400
AREA	· · · · · · · · · · · · · · · · · · ·	FALLING WATERS PARCELS 82 & 83 TAX MAP 47 6TH FLECTION DISTRICT HOWARD CO. MD



ROADWAY

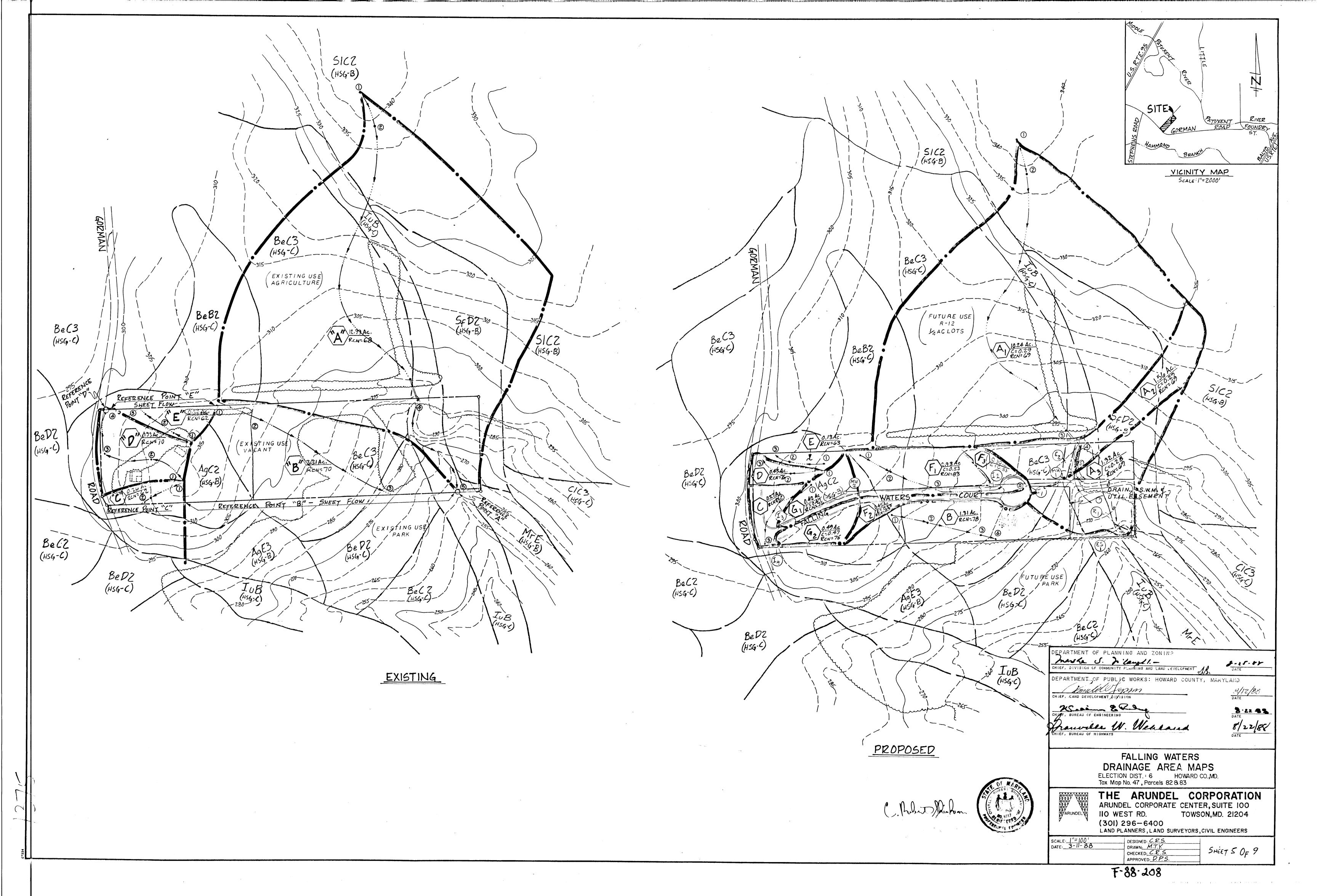
SECTIONS

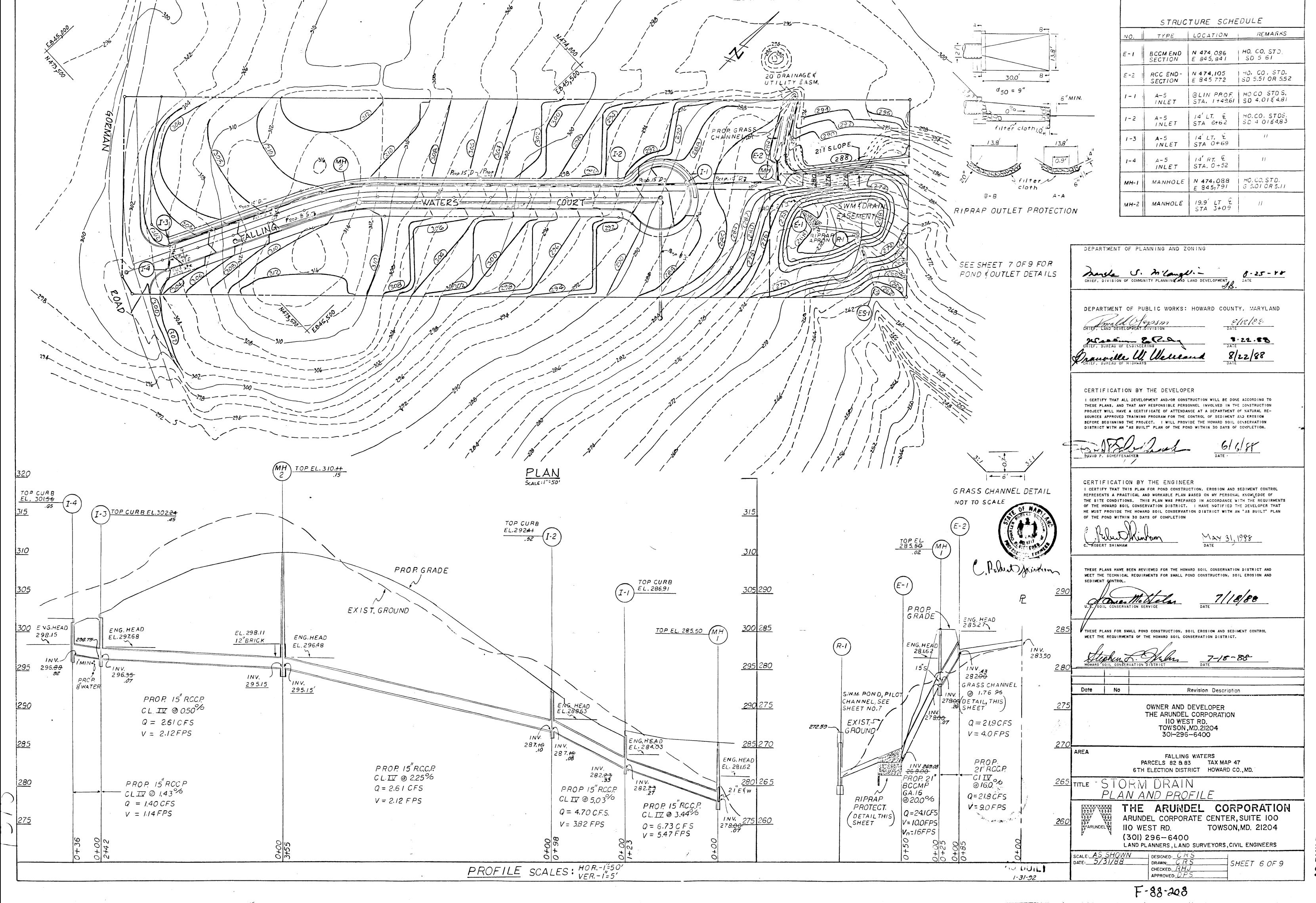
THE ARUNDEL CORPORATION ARUNDEL CORPORATE CENTER, SUITE 100

IIO WEST RD. TOWSON, MD. 21204 (301) 296-6400 LAND PLANNERS, LAND SURVEYORS, CIVIL ENGINEERS

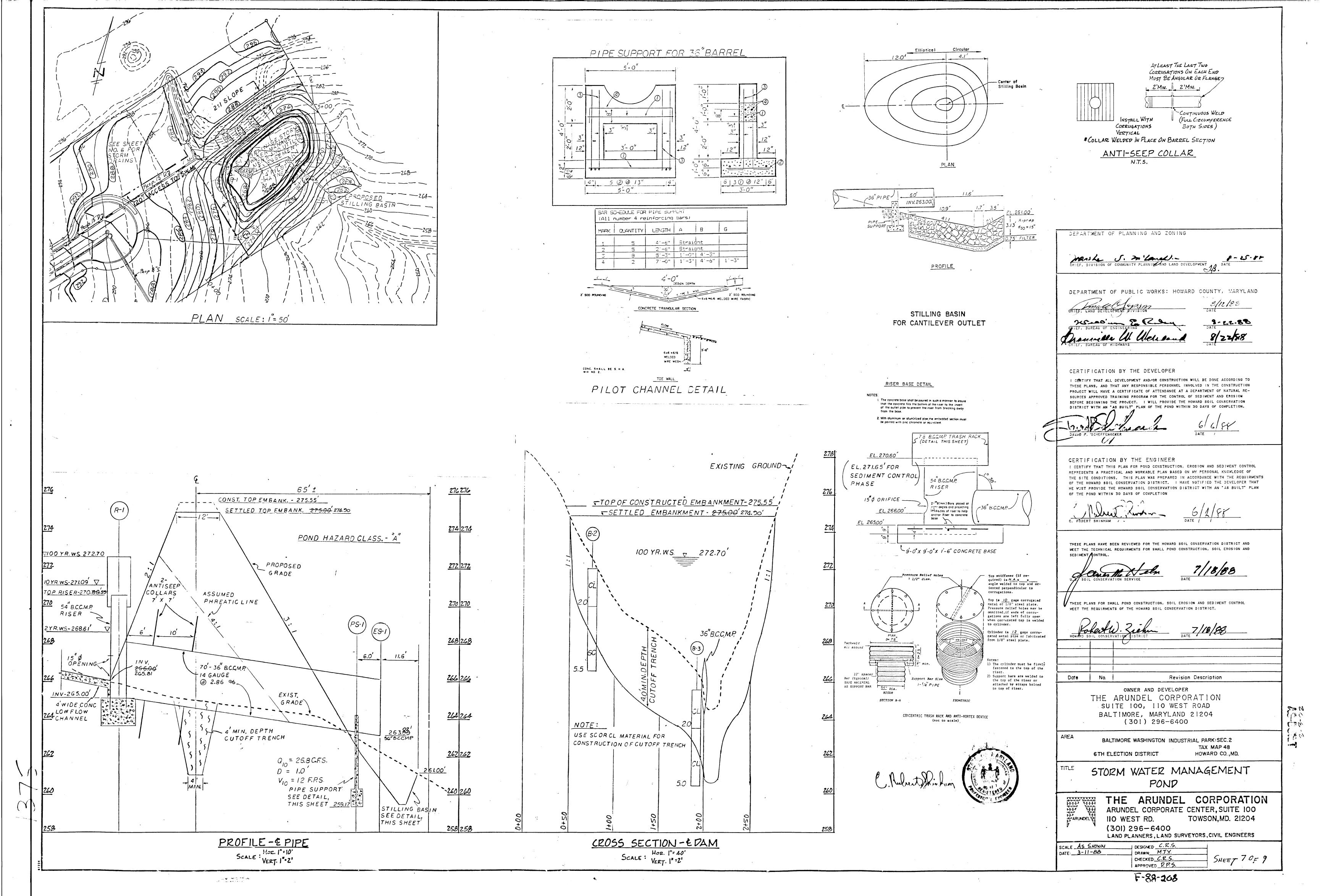
SCALE: NOT TO SCALE DESIGNED: CRS
DATE: 3-11-88 DRAWN: MTY
CHECKED: CRS SHEET 4 OF 9 APPROVED PPS

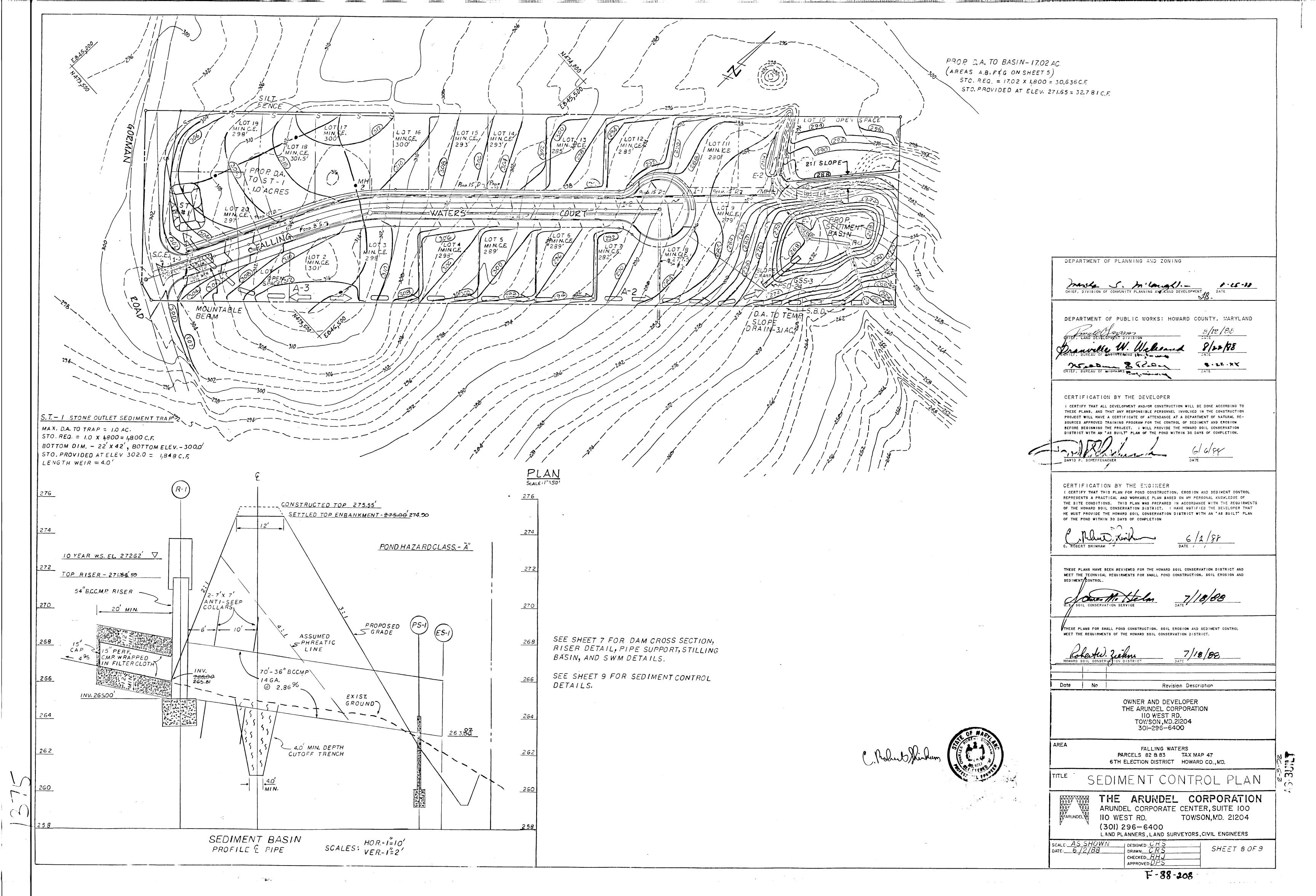
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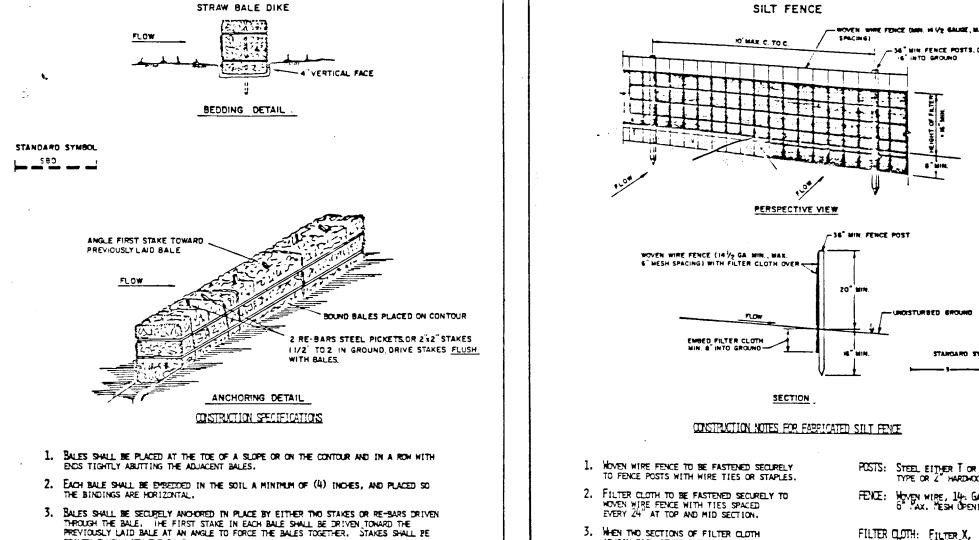


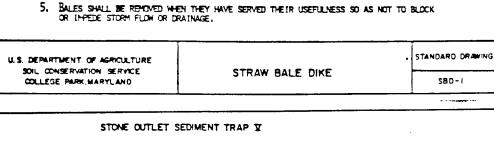


AS-BUILT 1-37-92

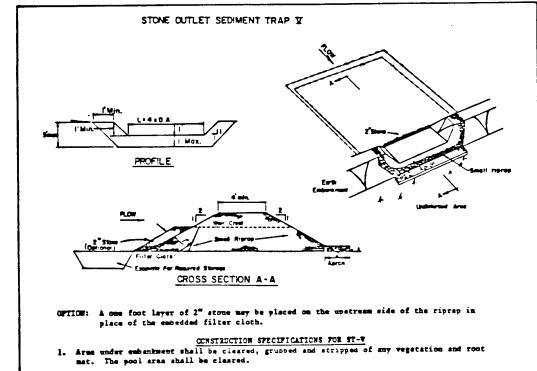








4. INSPECTION SHALL BE FREQUENT AND REPAIR REPLACEMENT SHALL BE MADE PROMPTLY AS



- 2. The fill material for the embaniment shall be free of roots and other woody vegetation as well as over-sized stones, rocks, organic material or other objectionable material. The ambenkment shall be compacted by traversing with equipment while it is being constructed.
- 3. All cut and fill slopes shall be 2:1 or flatter.
- 4. The stone used in the outlet shall be small riprap  $4^{m}-8^{m}$  along with a 1' thickness of  $2^{m}$ aggregate placed on the up-grade side on the small riprap on embedded filter cloth in the
- 5. Sediment shall be removed and trap restored to its original dimensions when the sediment
- 6. The structure shall be inspected after each rain and repairs made as needed. 7. Construction operations shall be carried out in such a manner than erosion and water
- 8. The structure shall be removed and the area stabilized when the drainage area has been

Maximum Drainage Area: 5 Acres			
U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE	STONE OUTLET SEDIMENT TRAP	STANDARD DRAWING	
COLLEGE PARK, MARYLAND		ST-X	

#### TEMPORARY SEEDING

APPLY TO GRADED OR CLEARED AREAS LIKELY TO BE REDISTURBED WHERE A SHORT-TERM VEGETATIVE COYER IS NEEDED.

SEEDBED 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 LBS./1000 SQ. FT.) SEEDING: FOR PERIODS MARCH I THRU APRIL 30 AND FROM AUGUST 15 THRU NOVEMBER 15. SEED WITH 2-1/2 BUSHEL PER ACRE OF ANNUAL RYE (3.2 LBS/1000 SQ.FT.). FOR THE PERIOD MAY 1 THRU AUGUST 14. SEED WITH 3 LBS. PER ACRE OF WEEPING LOVEGRASS (.07 LBS/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 LBS./1000 SQ.FT.) OF UNROTTED SMALL

GRAIN STRAW IMMEDIATELY AFTER SEEDING. ANCHOR MULCH IMMEDIATELY AFTER APPLICATION USING HULCH ANCHORING TOOL OR 218 GAL. PER ACRE (5 GAL./1000 SQ.FT.) OF EMULSIFIED ASPHALT ON FLAT AREAS. ON SLOPES, 8 FT. OR HIGHER, USE 348 GAL. PER ACRE (8 GAL./ICCO SQ.FT.) FOR ANCHORING. REFER TO THE 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL FOR RATE AND METHODS NOT COVERED.

#### PERMANENT SEEDING

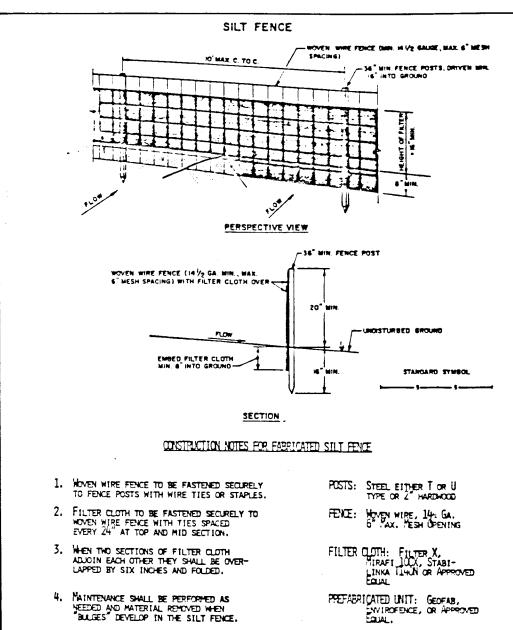
APPLY TO GRADED OR CLEARED AREAS NOT SUBJECT TO IMMEDIATE FURTHER DISTURBANCE WHERE A PERHAMENT LONG-LIVED VEGETATIVE COVER IS NEEDED. SEEDBED PREPARATION: LOOSEN UPPER THREE INCHES OF SOIL BY RAKING, DISCING OR OTHER

ACCEPTABLE MEANS BEFORE SEEDING, IF NOT PREVIOUSLY LOOSENED. SOIL AMENDMENTS: IN LIEU OF SOIL TEST RECOMMENDATIONS, USE ONE OF THE FOLLOWING

- 1. PREFERRED APPLY 2 TONS PER ACRE DOLOMITIC LIMESTONE (92 LBS./1000 SQ.FT.) AND 600 LBS. PER ACRE 10-10-10 FERTILIZER (14 LBS./1000 SQ.FT.) BEFORE SEEDING. BARROW OR DISC INTO UPPER THREE INCHES OF SOIL. AT TIME OF SEEDING. APPLY 400 LBS. PER ACRE 30-0-0 UREAFORM FERTILIZER (9 LBS./1000 SQ.FT.).
- 2. ACCEPTABLE APPLY 2 TONS PER ACRE DOLOMITIC LIMESTONE (92 LBS./1000 SQ.FT.) AND 1900 LBS. PER ACRE 10-10-10 FERTILIZER (23 LBS./1000 SQ.FT.) BEFORE SEEDING. BARROW OR DISC INTO UPPER THREE INCHES OF SOIL.

SEEDING - FOR THE PERIODS MARCH I THRU APRIL 30, AND AUGUST I THRU OCTOBER 15, SEED WITH 60 LBS. PER ACRE (1.4 LBS./1000 SQ.FT.) OF KENTUCKY 31 TALL FESCUE. FOR THE PERIOD MAY I THRU JULY 31. SEED WITH 60 LBS. KENTUCKY 31 TALL FESCUE PER ACRE AND 2 LBS. PER ACRE (.05 LBS./1000 SQ.FT.) 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./ACRE KENTUCKY 31 TALL FESCUE AND MULCH WITH 2 TONS/ACRE WELL ANCHORED STRAW. MULCHING - APPLY 1-1/2 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 GALLONS PER ACRE (5 GAL./1000 SQ.FT.) OF EMULSIFIED ASPHALT ON FLAT AREAS. ON SLOPES 8 FT. OR HIGHER. USE 348 GALS. PER ACRE (8 GAL./1000 SQ.FT.) FOR ANCHORING. MAINTENANCE - INSPECT ALL SEEDED AREAS AND MAKE HEEDED REPAIRS, REPLACTIONTS AND RESEDINGS.



	EGE PARK, MARYLAND		STANDARD DRAWING	COLLEGE PARK MARYLAND		EC	
	KTMENT OF MONICULTURE CONSERVATION SERVICE	SILT FENCE		U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE	EARTH DIKE	STANDAR	
4.	Maintenance shall be performed as NEEDED AND MATERIAL REMOVED WHEN "BULGES" DEVELOP IN THE SILT FENCE.	PREFABRICATED UNI PREFABRICATED UNI PRINTEGEN EQUAL.	T: GEOFAB, CE, OR APPROVED	A. Stone to be 2 inch stone, or recycled concrete equivalent, in a layer at least 3 inches in thickness and be pressed into the soil with construction equipment.  B. RIP-RAP TO BE 4-8 INCHES IN A LAYER AT LEAST 8 INCHES THICKNESS AND PRESSED INTO THE SOIL.  C. APPROVED EQUIVALENTS CAN BE SUBSTITUTED FOR ANY OF THE ABOVE MATERIALS.  7. PERIODIC INSPECTION AND REQUIRED MAINTENANCE MUST BE PROVIDED AFTER EACH RAIN EVENT			
٦.	When two sections of filter cloth adjoin each other they shall be over- lapped by six inches and folded.		LTER X, CX, STABI- LN OR APPROVED	4 8.1-2		ENGINEERING DESIGN	
7	HOVEN WIRE FENCE WITH TIES SPACED EVERY 24" AT TOP AND MID SECTION.	FEXCE: Moven wire, 14- Ga. 6 Max. Mesh Opening		3 5.1-8	3.0% SEED WITH JUTE, OR SOD; 2 STONE	LINED RIP-RAP 4-8"	
2.	TO FENCE POSTS WITH WIRE TIES OR STAPLES  FILTER CLOTH TO BE FASTENED SECURELY TO		." наконосо (E, 14: Ga.	2 3.1-5	S.CZ SEED AND STRAW MULCH	SEED USING JUTE, OR EXCELSIOR; SOD; 2" STO	
	TO SENCE PACTE WITH MIDE TIPE AS CTABLE		#				

minimum permeability

A. CORRUGATED METAL PIPE

III. STRUCTURAL BACKFILL

EARTH DIKE

POSITIVE DRAINAGE -GRADE SUFFICENT TO DRAIN

V V V V V V V

FLOW CHANGE STABILIZATION

SEED AND STRAM MULCH

core trench shall be the most impervious material available and shall

be compacted with equipment or rollers to assure maximum density and

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

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

1. Materials - (Steel Pipe) - This pipe and its appurtenances

shall be galvanized and fully bituminous coated and shall

conform to the requirements of AASHO Specification M-190

coating damaged or otherwise removed shall be replaced with

Materials - (Aluminum Pipe) - This pipe and its appurtenances

bands, anti-seep collars, end sections, etc. must be composed

insulating materials at least 24 mils in thickness. Aluminum

painted with one coat of zinc chromate primer. Hot dip gal-

Helically corrugated pipe in addition to the requirements above

shall have either continuously welded seams or have lock seams

watertight. The drain pipe or barrel connection to the riser

shall be welded 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.

of the same material as the pipe. Metals must be insulated

surfaces that are to be in contact with concrete shall be

vanized bolts may be used for connections. The pH of the

surrounding soils shall be less than 9 and greater than 4.

2. Connections - All connections with pipes must be completely

shall conform to the requirements of AASHO Specification

M-196 or M-211 with watertight coupling bands. Coupling

from dissimilar materials with use of rubber or plasti

Type A with watertight coupling bands. Any bituminous

cold applied bituminous coating compound

which are caulked with a neoprene bead.

inches or greater over the structure or pipe.

the pipe. At no time during the backfilling operation shall driven

DIVE B

SEED AND STRAW MULCH

ALL DIKES SHALL BE COMPACTED BY EARTH-MOVING EQUIPMENT.

.5-3.07

TUT OR FILL -

#### CONSTRUCTION SPECIFICATIONS

#### 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.

EARTH FILL Material

The fill material shall be taken from approved designated borrow area or areas. It shall be free from roots, stumps, wood, rubbish, oversize 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 10 percent above the design elevation (including freeboard) unless otherwise shown on the plans.

Areas on which fill is to be placed shall be scarified prior to placement of fill. Fill materials shall be placed in 8-inch maximum 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.

The movement of the hauling and spreading equipment over the fill shall be controlled so that the entire surface of each lift shall be traversed by not less than one tread track of the equipment or compaction shall be achieved by a minimum of four complete passes of a sheepsfoot. rubber tired or vibratory roller. Fill material shall contain sufficient moisture so that it can be formed into a ball without crumbling. If water can be squeezed out of the ball, it is too wet to compact

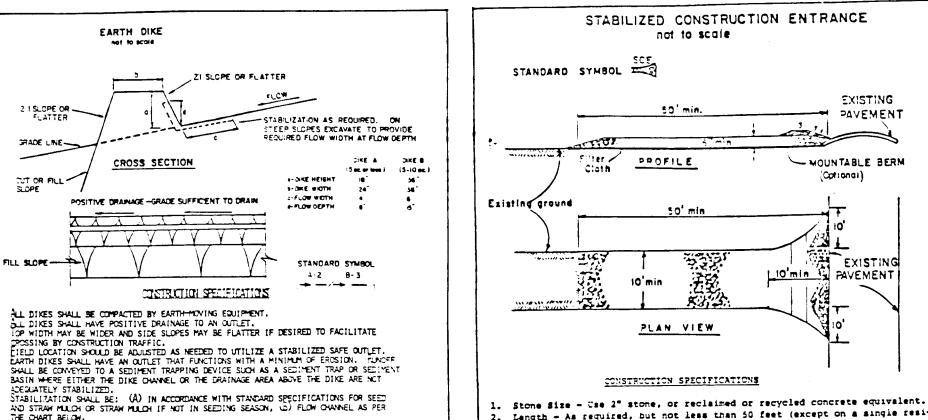
#### Core Trench

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 equipment 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

#### SEQUENCE OF CONSTRUCTION

#### 1. OBTAIN GRADING PERMIT

- 2. NOTIFY THE DPW SEDIMENT CONTROL INSPECTOR FOR HOWARD COUNTY 48 HOURS PRIOR TO START OF CONSTRUCTION.
- 3. PLACE STABILIZED CONSTRUCTION ENTRANCE AS SHOWN ON THE SEDIMENT CONTROL PLAN.
- 4. CONSTRUCT SEDIMENT CONTROL BASIN AS SHOWN ON THE STORM WATER MANAGEMENT AND SEDIMENT CONTROL PLANS.
- 5. CONSTRUCT REMAINING SEDIMENT CONTROL DEVICES.
- 6. CLEAR REMAINDER OF AREAS TO BE DISTURBED. REMOVE ALL UNSUITABLE MATERIAL FROM THE SITE.
- 7. COMMENCE GRADING OPERATION, TEMPORARY SWALES AND PIPE SLOPE DRAIN ARE TO BE ADJUSTED AS WORK PROGRESSES. SEED AND MULCH ALL SLOPES AS GRADING PROGRESS ALLOWS.
- 8. CONSTRUCT UNDERGROUND UTILITIES AND STORM DRAINS.
- 9. CONSTRUCT CURB, GUTTER, AND PAVING.
- 10. STABILIZE ALL DISTURBED OR GRADED AREA WITHIN 14 DAYS. CONTRACTOR SHALL STABILIZE SUCH AREAS IN ACCORDANCE WITH THE TEMPORARY OR PERMANENT SEEDING NOTES AS APPROPRIATE.
- 11. ONCE VEGETATION IS ESTABLISHED, REMOVE SEDIMENT CON-TROL DEVICES AT THE DIRECTION OF THE INSPECTOR.
- 12. REMOVE ACCUMULATION OF SEDIMENT FROM BASIN, REMOVE 15" PERFORATED PIPE, REMOVE TRASH RACK, ADJUST TOP OF RISER TO ELEVATION 270,60 AND RESET TRASH RACK. COMPLETE ALL OTHER MEASURES NECESSARY TO CONVERT THE SEDIMENT CONTROL BASIN TO STORM WATER MANAGEMENT POND.
- 13. STABILIZE ANY REMAINING DISTURBED AREAS.



#### . Length - As required, but not less than 50 feet (except on a single residence lot where a 30 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 single family residence lot. Surface Water - All surface water flowing or diverted toward construction entrances shall be piped across the entrance. If piping is impractical, a mountable berm with 5:1 slopes will be permitted. Maintenance - The entrance small 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 spilled, dropped, washed or tracked onto public rights-of-way must 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

Periodic inspection and needed maintenance shall be provided after each rain. U. S. DEPARTMENT OF AGRICULTURE | STABILIZED CONSTRUCTION | Standard SOIL CONSERVATION SERVICE College Park, Md.

removed and replaced with suitable earth compacted to provide adequate support. 4. Laying pipe - The pipe shall be placed with inside circumferential laps pointing downstream and with the longitudinal

3. Bedding - The pipe small be firmly and uniformly bedded through-

out its entire length. Where rock or soft, spongy or other

unstable soil is encountered, ail such material shall be

laps at the sides. Backfilling shall conform to structural backfill as shown above.

6. Other details (anti-seep collars, valves, etc.) shall be as shown on the drawings.

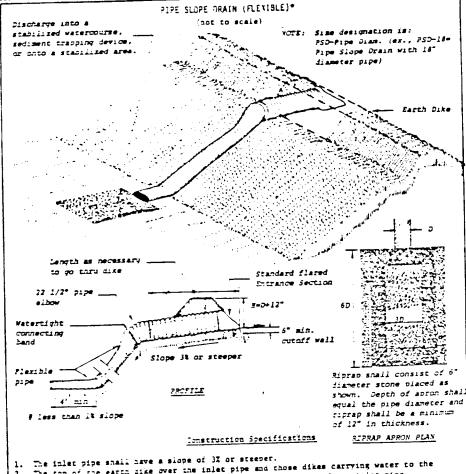
#### B. REINFORCED CONCRETE PIPE

- Materials Reinforced concrete pipe shall have a rubber gasket joint and shall equal or exceed ASTM Specification C-361. Approved equivalents are AWWA Specification C-300, 301, and 302.
- Bedding All reinforced concrete pipe conduits shall be laid in a concrete bedding for their entire length. This bedding shall consist of high slump concrete placed under the pipe and up the sides of the pipe at least 10% of its diameter with a minimum thickness of 3". W.S.S.C. low cradle bedding is an approved equivalent.
- 3. Laying pipe Bell and spigot pipe shall be placed with the bell end upstream. Joints shall be made in accordance with recommendations of the manufacturer of the material. After the joints are seale on the entire line, the bedding shall be placed so that all spaces under the pipe are filled. Care shall be exercised to prevent any deviation from the original line and
- Backfilling shall conform to structural backfill as shown above. 5. Other details (anti-seep collars, valves, etc.) shall be as
- shown on the drawings.

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), Class A-1, or P-1.

### VI. STABILIZATION

All borrow areas shall be graded to provide proper drainage and lcf: in a sightly 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 Orbanizing Areas immediately after finish grading.



The top of the earth size over the inlet pipe and those dikes carrying water to the pipe shall be at least 1' higher at all points than the top of the inlet pipe. The inlet pipe shall be corrugated metal pipe with watertight connecting bands. he flexible tubing shall be the same diameter as the injec pipe and shall be constructed of a durable material with hold-down growners spaced 10' on centers.

The flexible tuning shall be securely fastened to the corrugated metal pipe with metal scrapping or vecertight connecting collars.

The flexible tubing shall be securely anchored to the slope by staking at the grounces. provided.

A riprap apron shall be provided at the outlet. This shall consist of 6" diameter stone placed as shown on Standard Drawing GSS-3.
The soil around and under the inlet pipe and entrance section shall be hand tamped in Follow-up inspection and any needed maintenance shall be performed after each storm. Standard Symbol - 053-\* Drainage area must not exceed 5 acres.

SOIL CONSERVATION SERVICE SRADE STABILIZATION

#### SEDIMENT CONTROL NOTES

1) A minimum of 24 hours notice must be given to the Howard County Office of Inspection and Permits pror to the start of any construction. (992-2437)

2) 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 3) 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.

4) All sediment traps/basins shown must be fenced and warning signs posted around their perimeter in accordance with Vol. 1, Chaper 12, of the HCWARD COUNTY DESIGN MANUAL, Storm

5) 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.

6) 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

7) Site Analysis: Total Area of Site Area Disturbed

6.161 Acres 5.759 Acres Area to be roofed or paved Area to be vegetatively stabilized Acres
Total Cut 0.00 Cu. yds Total Fill C. Do Cu. yds
Offsite waste/borrow area location

8) Any sediment control practice which is disturbed by grading activity for placement of utilities must be repaired on the same day of disturbance.

small epsm

8/ie/88 8-22.88

DEPARTMENT OF PUBLIC WORKS: HOWARD COUNTY, MARYLAND

CERTIFICATION BY THE DEVELOPER

DEPARTMENT OF PLANNING AND ZONING

CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT B.

I 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 RE-SOURCES 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.

8-25.84

CERTIFICATION BY THE ENGINEER 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 REQUIRMENTS 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

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

THESE PLANS FOR SMALL POND CONSTRUCTION, SOIL EROSION AND SEDIMENT CONTROL

WEET THE REQUIRMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.

Date No. 1 Revision Description

> OWNER AND DEVELOPER THE ARUNDEL CORP. 110 WEST ROAD. TOWSON, MD. 21204 301-296-6400

AREA FALLING WATERS 6TH ELECTION DISTRICT

SEDIMENT CONTROL PETAILS

THE ARUNDEL CORPORATION ARUNDEL CORPORATE CENTER, SUITE 100 TOWSON.MD. 21204 IIO WEST RD. HARUNDEL T

LAND PLANNERS . LAND SURVEYORS , CIVIL ENGINEERS J DESIGNED C.R.S. SCALE AS SHOWN DATE: 3-11-88 \_ DRAWN\_ M.T.Y.

I CHECKED C.R.S. I APPROVED U.P.S.

F-88-208

(301) 296-6400

SHEET 9 OG 9

TAX MAP 48 HOWARD CO., MD.