

ENGINEER'S CERTIFICATE
 I HEREBY 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.

4-4-83
 DATE

DEVELOPER'S CERTIFICATE
 "I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN OF DEVELOPMENT AND PLAN FOR EROSION AND SEDIMENT CONTROL AND THAT ALL 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 ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT OR THEIR AUTHORIZED AGENTS, AS ARE DEEMED NECESSARY."

4-4-83
 DATE

5-10-83
 DATE

5-8-83
 DATE

5-25-83
 DATE

5-26-83
 DATE

5-26-83
 DATE

5-26-83
 DATE

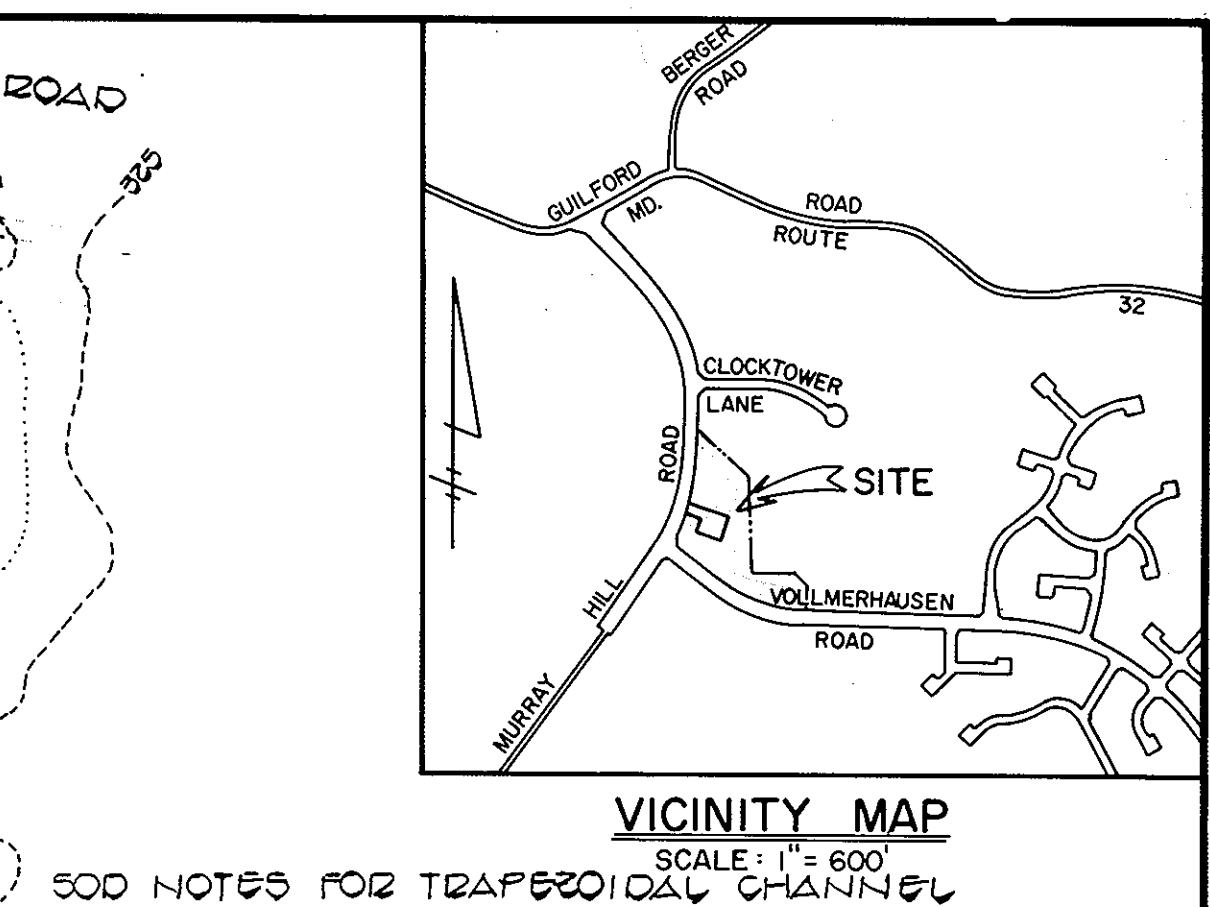
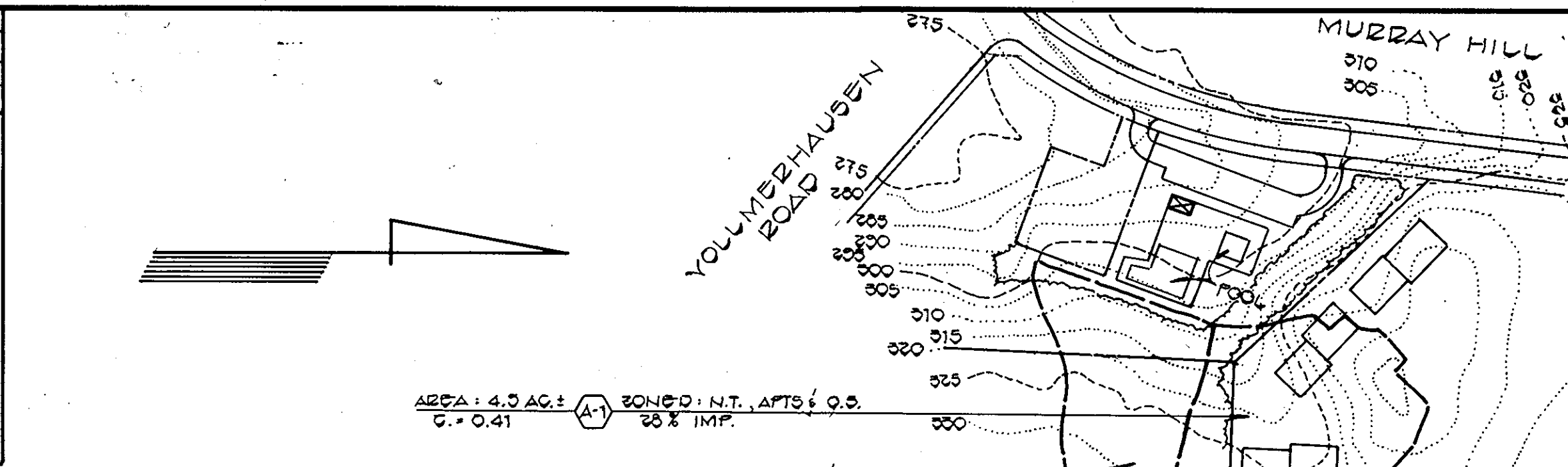
LEGEND

EXISTING CONTOUR (2' INTERVAL)
 PROPOSED CONTOUR (2' INTERVAL)
 SPOT ELEVATION
 DRAINAGE FLOW
 RETAINING WALL
 EX. WOODS TO BE SAVED
 STRAW BALE DIKE (S.B.D.)
 SILT FENCE (S.F.)
 STABILIZED CONSTRUCTION ENTRANCE (S.C.E.)
 PERIMETER DIKE (P.D.)

CHANNEL DATA

SLOPE	Q	V	CHANNEL DATA	A	T	Z
12.50%	11.3 CFS	3.2 FPS	0.52'	4.0'	9.12'	22.24'
2.00%	13.7 CFS	2.6 FPS	0.90'	4.0'	3.80'	11.60'

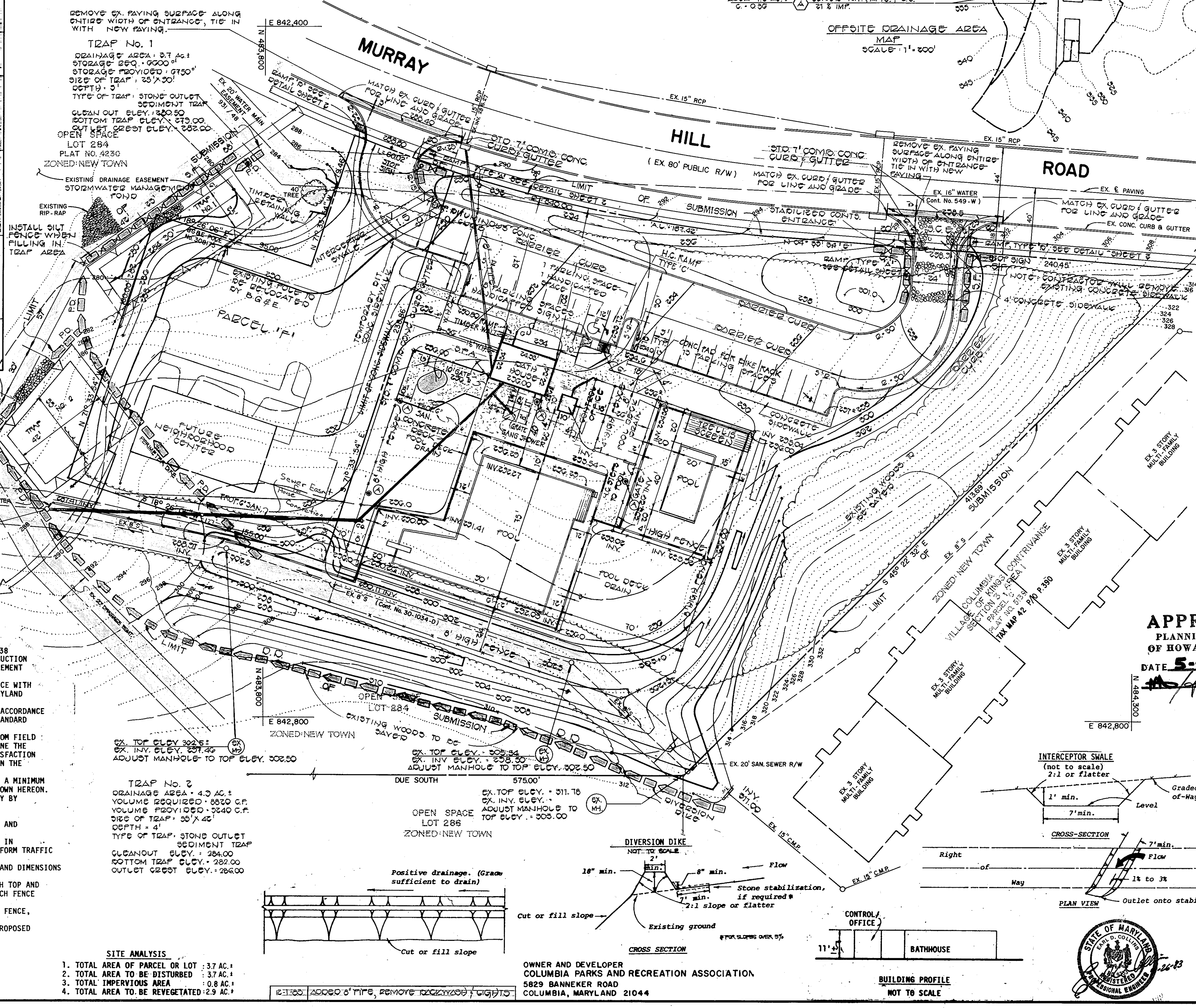
TRAPEZOIDAL SOD CHANNEL
 NOT TO SCALE



GENERAL NOTES

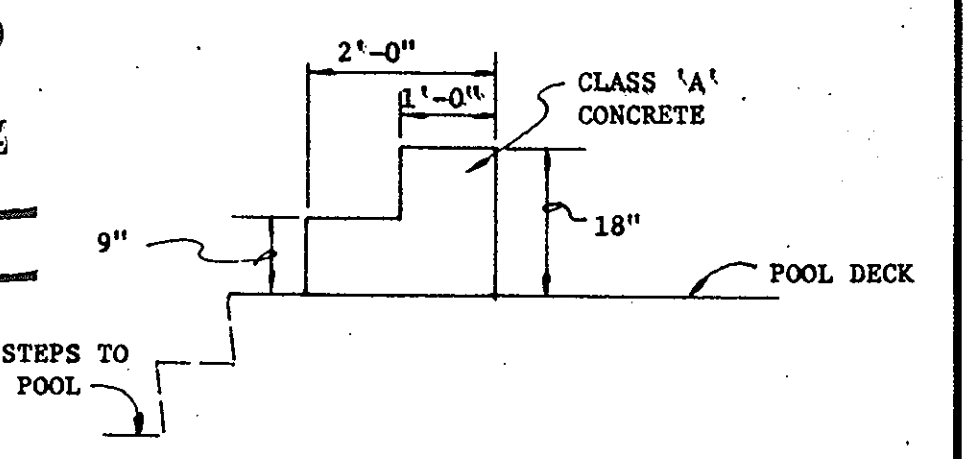
- TOTAL AREA OF SUBMISSION: 8.7 AC.
- TOTAL AREA OF BUILDING COVERAGE (INCLUDING POOL): 0.46 AC.
- PRESENT ZONING: NEW TOWN OPEN SPACE FDP 100-A-III
- PROPERTY IS RECORDED IN PLAT BOOK: 4441
- PARKING DATA
 - USE - RECREATIONAL FACILITY (SWIMMING POOL)
 - TOTAL NUMBER OF SPACES PROVIDED: 23
 - REGULAR SPACES (9' x 18') - 22
 - HANDICAPPED SPACES (12' x 18') - 1
- THE PROPERTY IS LOCATED ON TAX MAP 42, PARCEL P/0 438
- THE CONTRACTOR SHALL NOTIFY THE HOWARD COUNTY CONSTRUCTION INSPECTION/SURVEY DIVISION 24 HOURS PRIOR TO COMMENCEMENT OF WORK AT 992-2418
- HANDICAPPED FACILITIES TO BE CONSTRUCTED IN ACCORDANCE WITH THE "DESIGN OF BARRIER FREE FACILITIES" AND THE "MARYLAND BUILDING CODE FOR THE HANDICAPPED AND AGED."
- ALL PAVING AND STORM DRAIN CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE HOWARD COUNTY ROAD CONSTRUCTION CODE AND STANDARD SPECIFICATIONS.
- EXISTING UTILITIES SHOWN HEREON HAVE BEEN LOCATED FROM FIELD AND OFFICE INFORMATION. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF EXISTING UTILITIES TO HIS OWN SATISFACTION BEFORE MAKING ANY CONNECTION THERETO OR EXCAVATING IN THE AREA THEREOF.
- THE CONTRACTOR SHALL NOTIFY MISS UTILITY AT 559-0100 A MINIMUM OF THREE DAYS PRIOR TO BEGINNING ANY CONSTRUCTION SHOWN HEREON.
- TOPOGRAPHY SHOWN IS FIELD RUN AND TAKEN FROM A SURVEY BY HUDKINS ASSOCIATES DATED MARCH 5, 1983.
- PUBLIC WATER AND PUBLIC SEWER WILL BE UTILIZED.
- ALL ROADWAYS AND PARKING AREAS TO BE PRIVATELY OWNED AND MAINTAINED.
- INSTALLATION OF ALL TRAFFIC CONTROL DEVICES SHALL BE IN ACCORDANCE WITH THE 1971 EDITION OF THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.
- SEE ARCHITECTURAL PLANS FOR DIMENSIONS OF BUILDINGS AND DIMENSIONS OF SWIMMING POOLS.
- EIGHT (8) FOOT FENCE TO BE 11 GAUGE VINYL COATED WITH TOP AND BOTTOM RAILS. FENCE POSTS TO BE PAINTED GREEN TO MATCH FENCE FABRIC. FENCE POSTS TO BE SET IN CONCRETE.
- FOUR (4) FOOT FENCE TO BE THE SAME AS EIGHT (8) FOOT FENCE, EXCEPT TOP AND BOTTOM WIRE IN LIEU OF RAILS.
- EXISTING SANITARY MANHOLES TO BE ADJUSTED TO MATCH PROPOSED GRADES AS NEEDED.

FISHER, COLLINS AND CARTER
 CONSULTING ENGINEERS AND LAND SURVEYORS
 8388 COURT AVENUE
 ELLICOTT CITY, MARYLAND 21043
 301-461-2855



- A. SPECIFICATIONS**
- CLASS OF TURFGRASS SOD SHALL BE MARYLAND OR VIRGINIA STATE CERTIFIED, OR MARYLAND OR VIRGINIA STATE APPROVED SOD.
 - SOD SHALL BE MACHINE CUT AT A UNIFORM SOIL THICKNESS OF 3/4 INCH, PLUS OR MINUS 1/4 INCH, AT THE TIME OF CUTTING. MEASUREMENT FOR THICKNESS SHALL EXCLUDE TOP GROWTH AND THATCH.
 - STANDARD SIZE SECTIONS OF SOD SHALL BE STRONG ENOUGH TO SUPPORT THEIR OWN WEIGHT AND RETAIN THEIR SIZE AND SHAPE WHEN SUSPENDED VERTICALLY FROM A FIRM GRASP ON THE UPPER 10% OF THE SECTION.
 - INDIVIDUAL PIECES OF SOD SHALL BE CUT TO THE SUPPLIERS WIDTH AND LENGTH. MAXIMUM ALLOWABLE DEVIATION FROM STANDARD WIDTHS AND LENGTHS SHALL BE 5%. BROKEN PADS AND TORN OR UNEVEN ENDS WILL NOT BE ACCEPTABLE.
 - SOD SHALL NOT BE HARVESTED OR TRANSPLANTED WHEN MOISTURE CONTENT (EXCESSIVELY DRY OR WET) MAY ADVERSELY AFFECT ITS SURVIVAL.
 - SOD SHALL BE HARVESTED, DELIVERED AND INSTALLED WITHIN A PERIOD OF 36 HOURS. SOD NOT TRANSPLANTED WITHIN THIS PERIOD SHALL BE INSPECTED AND APPROVED BY THE CONTRACTING OFFICER OR HIS DESIGNATED REPRESENTATIVE PRIOR TO ITS INSTALLATION.
- B. SITE PREPARATION**
- FERTILIZER AND LIME APPLICATION RATES SHALL BE DETERMINED BY SOIL TESTS. UNDER UNUSUAL CIRCUMSTANCES WHERE THERE IS INSUFFICIENT TIME FOR A COMPLETE SOIL TEST AND THE CONTRACTING OFFICER AGREES, FERTILIZER AND LIME MATERIALS MAY BE APPLIED IN AMOUNTS SHOWN UNDER B. AND C., BELOW.
- PRIOR TO SODDING, THE SURFACE SHALL BE CLEARED OF ALL TRASH, DEBRIS, AND OR ALL ROOTS, BRUSH, WIRE, GRADE STAKES AND OTHER OBJECTS THAT WOULD INTERFERE WITH PLANTING, FERTILIZING OR MAINTENANCE OPERATIONS.
 - WHERE THE SOIL IS ACID OR COMPOSED OF HEAVY CLAYS, GROUND LIME-STONE SHALL BE SPREAD AT THE RATE OF 100 POUNDS PER 1,000 SQUARE FEET. IN ALL SOILS 30 POUNDS OF 5-10-5, OR EQUIVALENT, PER 1,000 SQUARE FEET SHALL BE UNIFORMLY APPLIED AND MIXED INTO THE TOP 3 INCHES OF SOIL WITH THE REQUIRED LIME.
 - SLOW RELEASE NITROGEN AT THE RATE OF 3.5 LBS. N/1000 SQUARE FEET SHALL BE APPLIED TO THE PREPARED SOIL JUST PRIOR TO SOD INSTALLATION. THIS MATERIAL SHALL BE APPROXIMATELY 1/3 IMMEDIATELY AVAILABLE AND 2/3 WATER INSOLUBLE NITROGEN. UREA FORMALDEHYDE (UF) AND ISOBUTYLIDENE UREA (IBDU) MEET THESE STANDARDS.
- C. SOD INSTALLATION**
- DURING PERIODS OF EXCESSIVELY HIGH TEMPERATURE THE SOIL SHALL BE LIGHTLY IRRIGATED IMMEDIATELY PRIOR TO LAYING THE SOD.
 - THE FIRST ROW OF SOD SHALL BE LAID IN A STRAIGHT LINE WITH SUBSEQUENT ROWS PLACED PARALLEL TO AND TIGHTLY WEDGED AGAINST EACH OTHER. LATERAL JOINTS SHALL BE STAGGERED TO PROMOTE MORE UNIFORM GROWTH AND STRENGTH. INSURE THAT SOD IS NOT STRETCHED OR OVERLAPPED AND THAT ALL JOINTS ARE BUTTED TIGHT IN ORDER TO PREVENT VOIDS WHICH WOULD CAUSE AIR DRYING OF THE ROOTS.
 - IN SLOPING AREAS WHERE EROSION MAY BE A PROBLEM, SOD SHALL BE LAID WITH THE LONG EDGES PARALLEL TO THE CONTOUR AND WITH STAGGERED JOINTS. SECURE THE SOD BY TAMPING AND PEGGING OR OTHER APPROVED METHODS.
 - AS SODDING IS COMPLETED IN ANY ONE SECTION, THE ENTIRE AREA SHALL BE ROLLED OR TAMPED TO INSURE SOLID CONTACT OF ROOTS WITH THE SOIL SURFACE. SOD SHALL BE WATERED IMMEDIATELY AFTER ROLLING OR TAMPING UNTIL THE UNDERSIDE OF THE NEW SOD PAD AND SOIL SURFACE BELOW THE SOD ARE THOROUGHLY WET. THE OPERATIONS OF LAYING, TAMPING AND IRRIGATING FOR ANY PIECE OF SOD SHALL BE COMPLETED WITHIN EIGHT HOURS.

APPROVED
 PLANNING BOARD
 OF HOWARD COUNTY
 DATE 5-4-83
 [Signature]



HANDICAPPED STEPS TO POOL

NOT TO SCALE

Rev. Date	Rev. No.	Revision Description
11-21-83	1	ADDED BARRIER CURB
5-5-83	2	LOWERED SITE 1'-0"
8-22-83	3	ADDED S.F.

COLUMBIA
 MARYLAND

PROJECT AREA: VILLAGE OF KINGS CONTRIVANCE SECTION 3, AREA 1
 6TH ELECTION DISTRICT HOWARD COUNTY, MD.

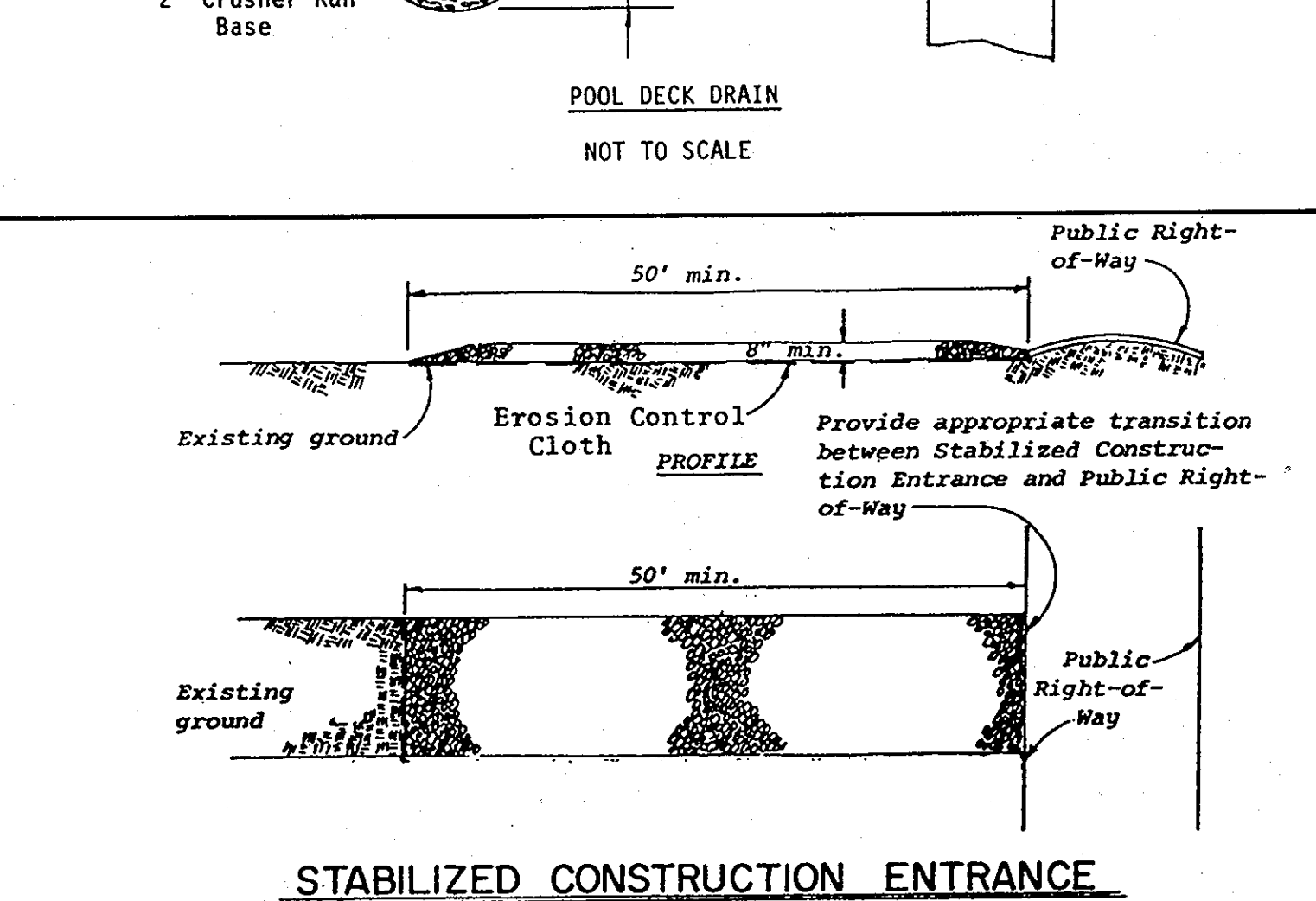
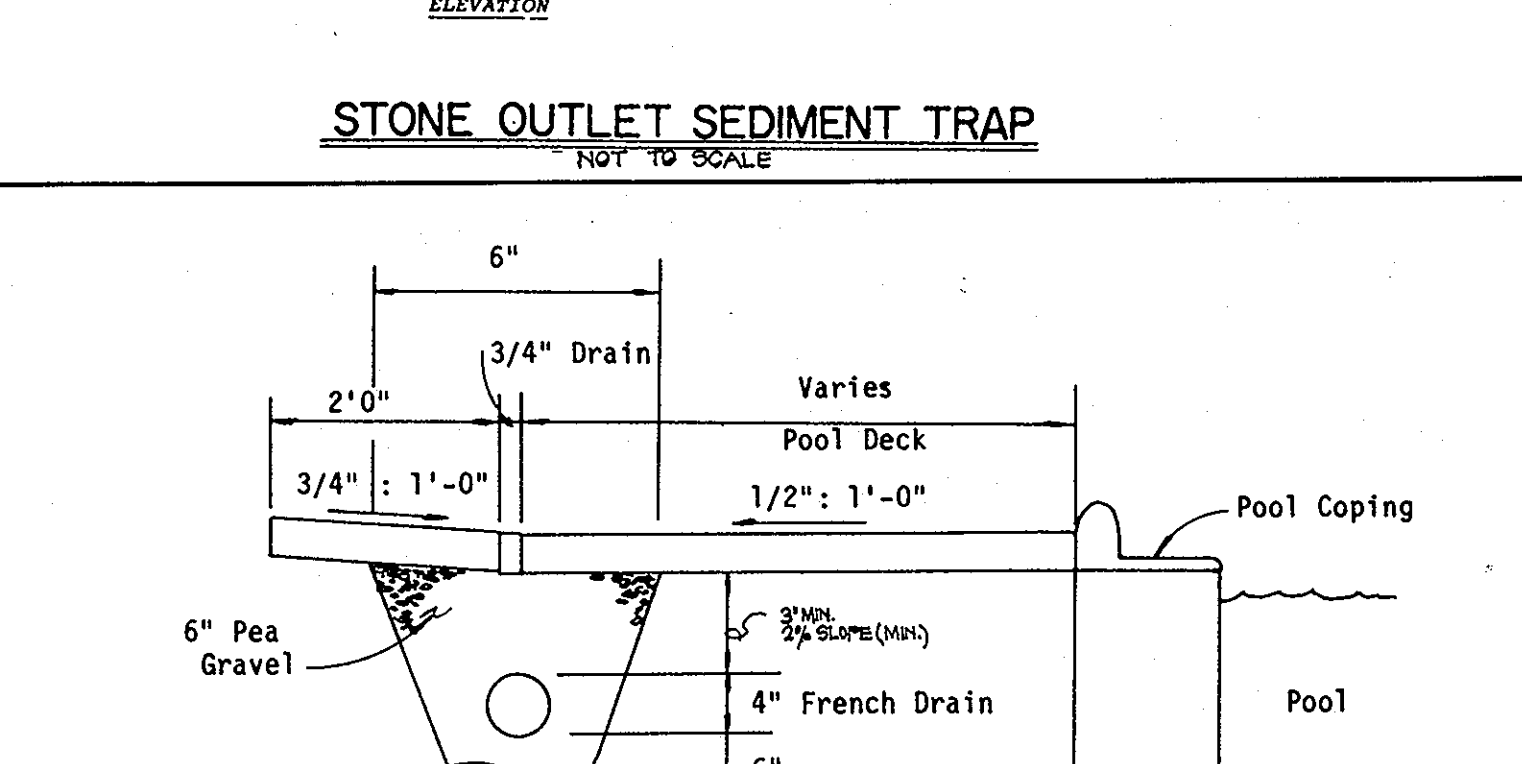
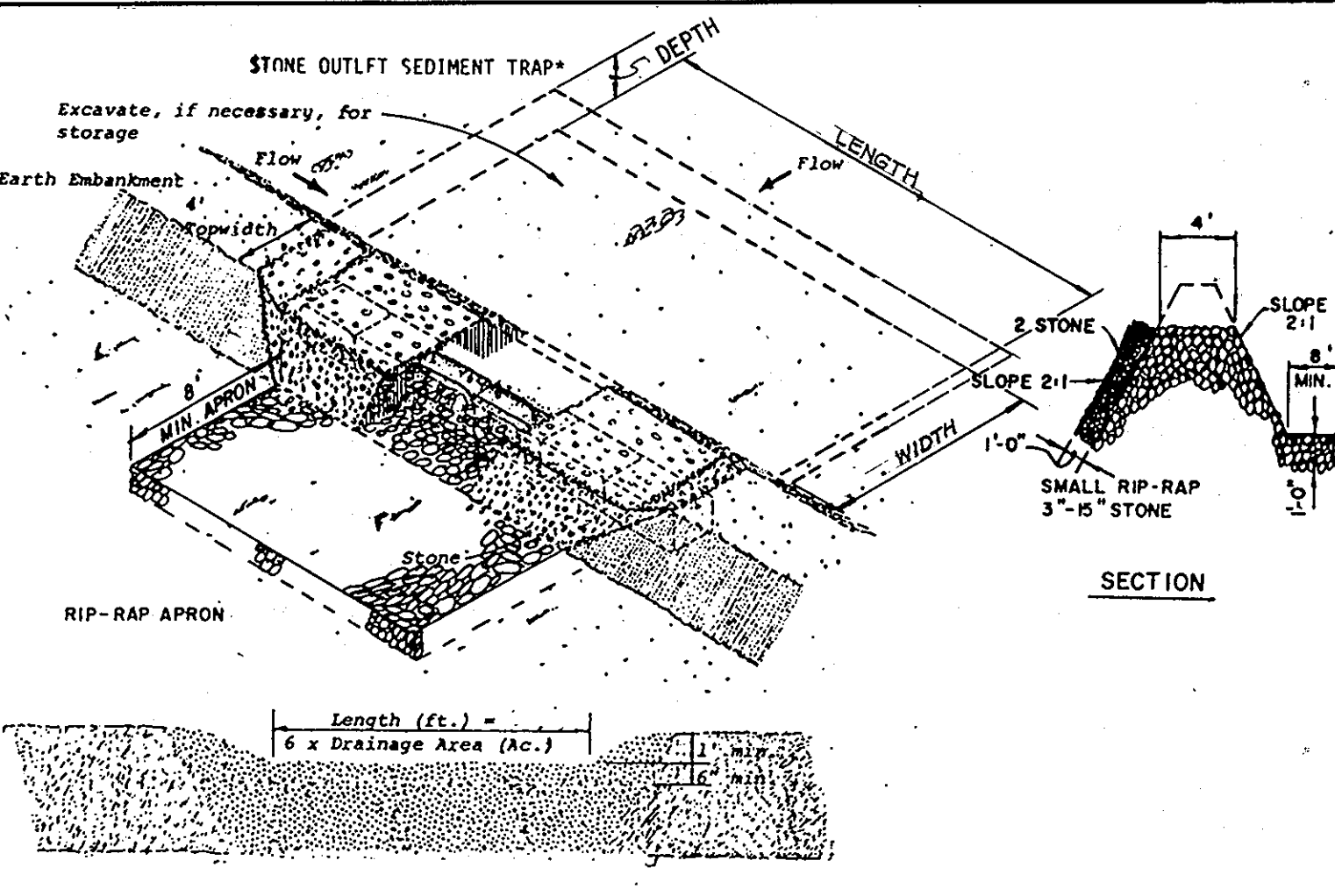
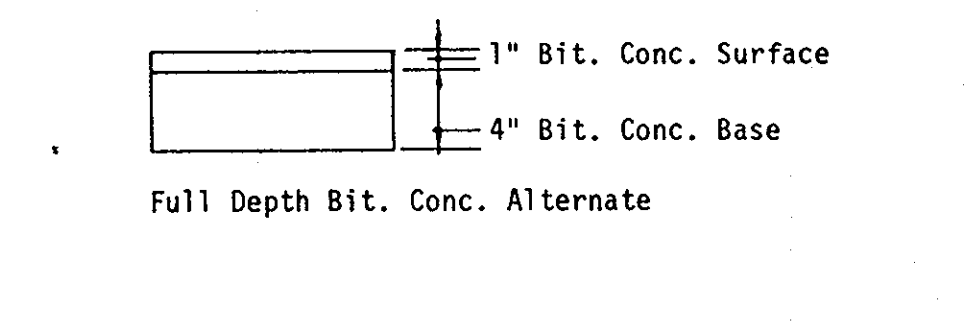
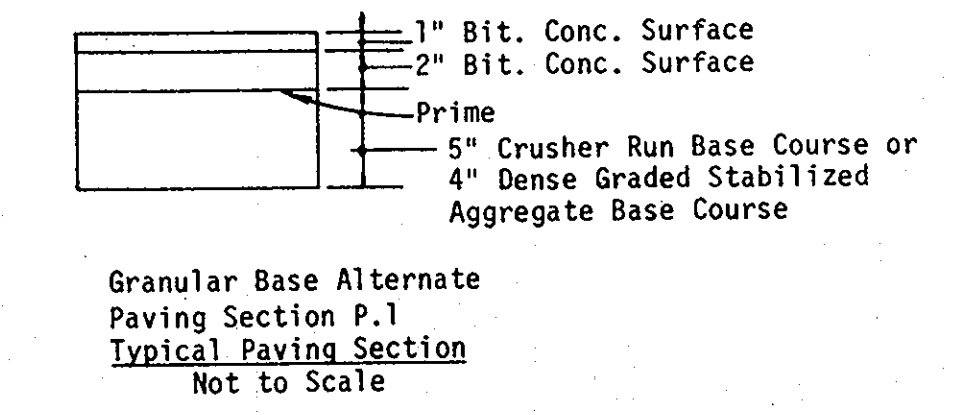
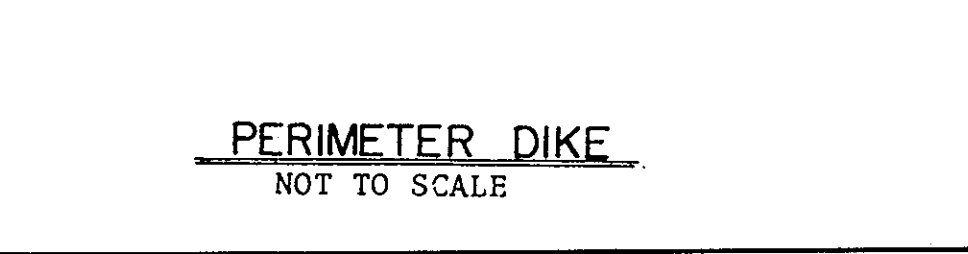
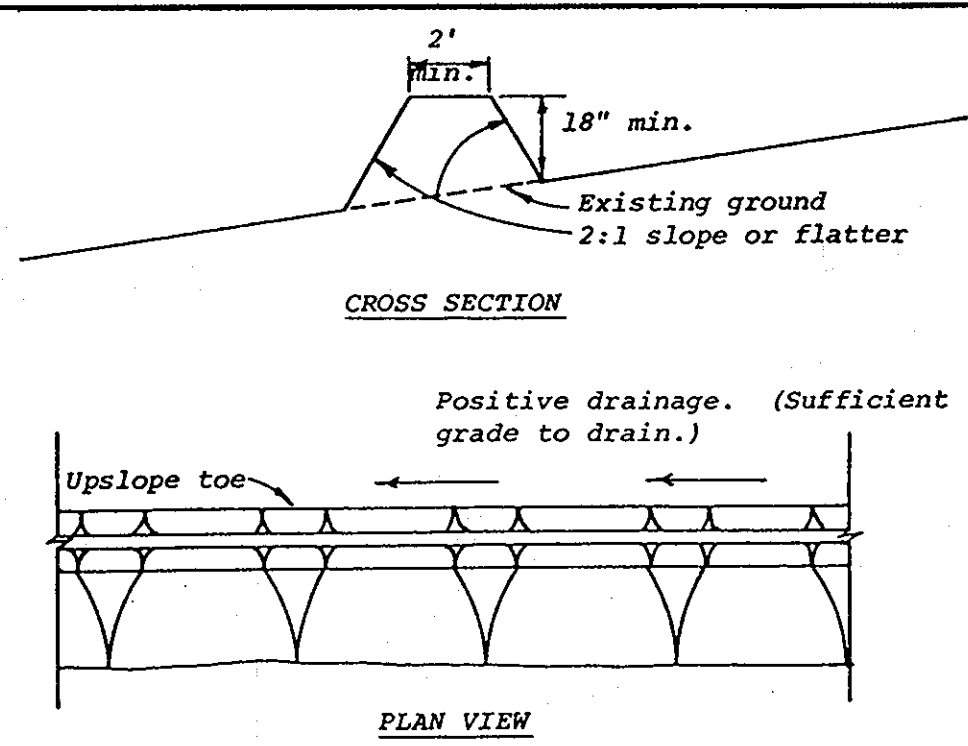
PROJECT TITLE: PART OF OPEN SPACE LOT 284 & PARCEL 'F' HUNTINGTON NEIGHBORHOOD POOL

Des. By B.D. BURTON Scale: 1" = 30' Dwg. No. 1 OF 2
 Dn. By F.C.C. Date: 3/16/83 C.C.F. No.
 Chk. By R.B. CARTER Approved

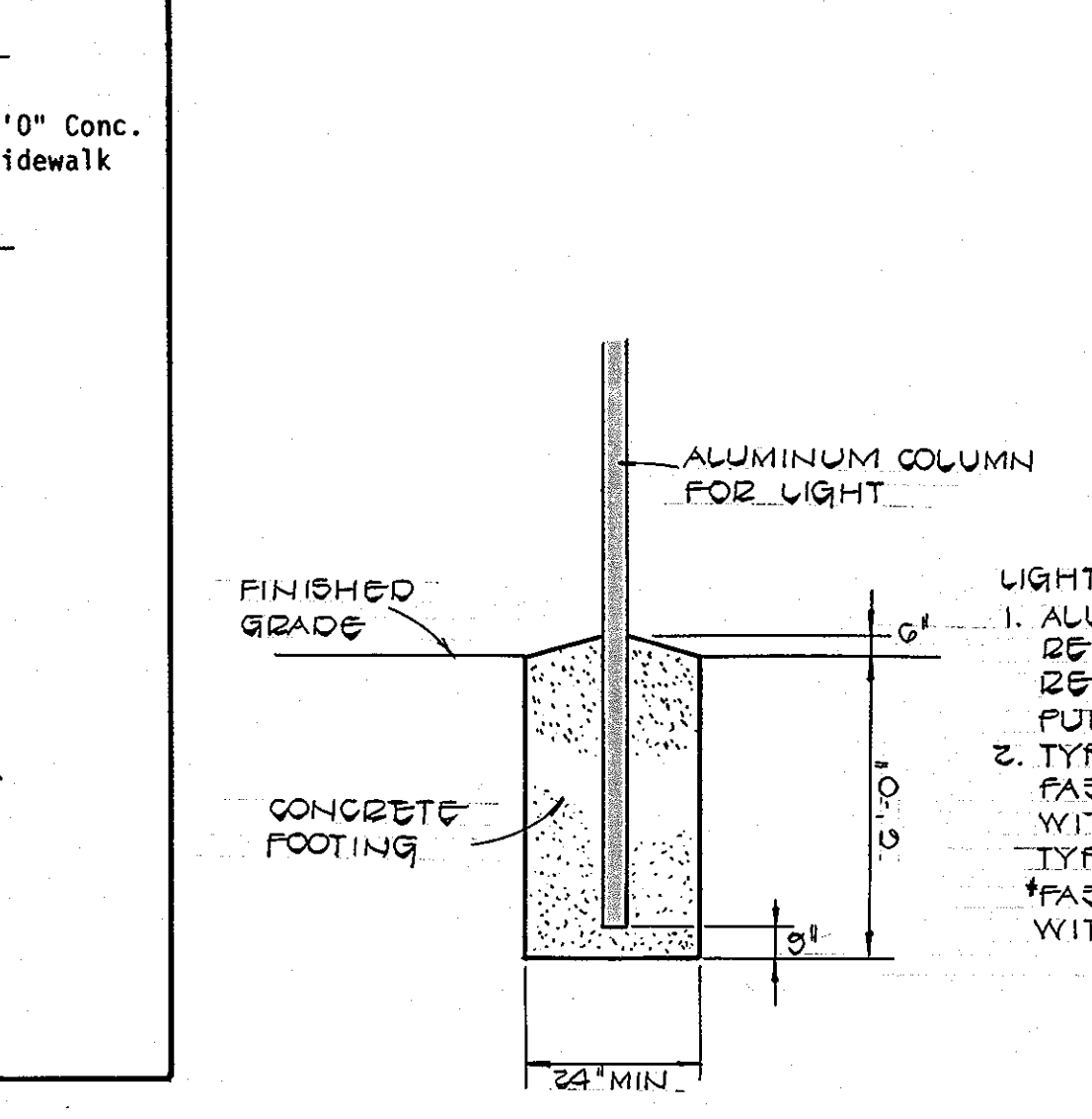
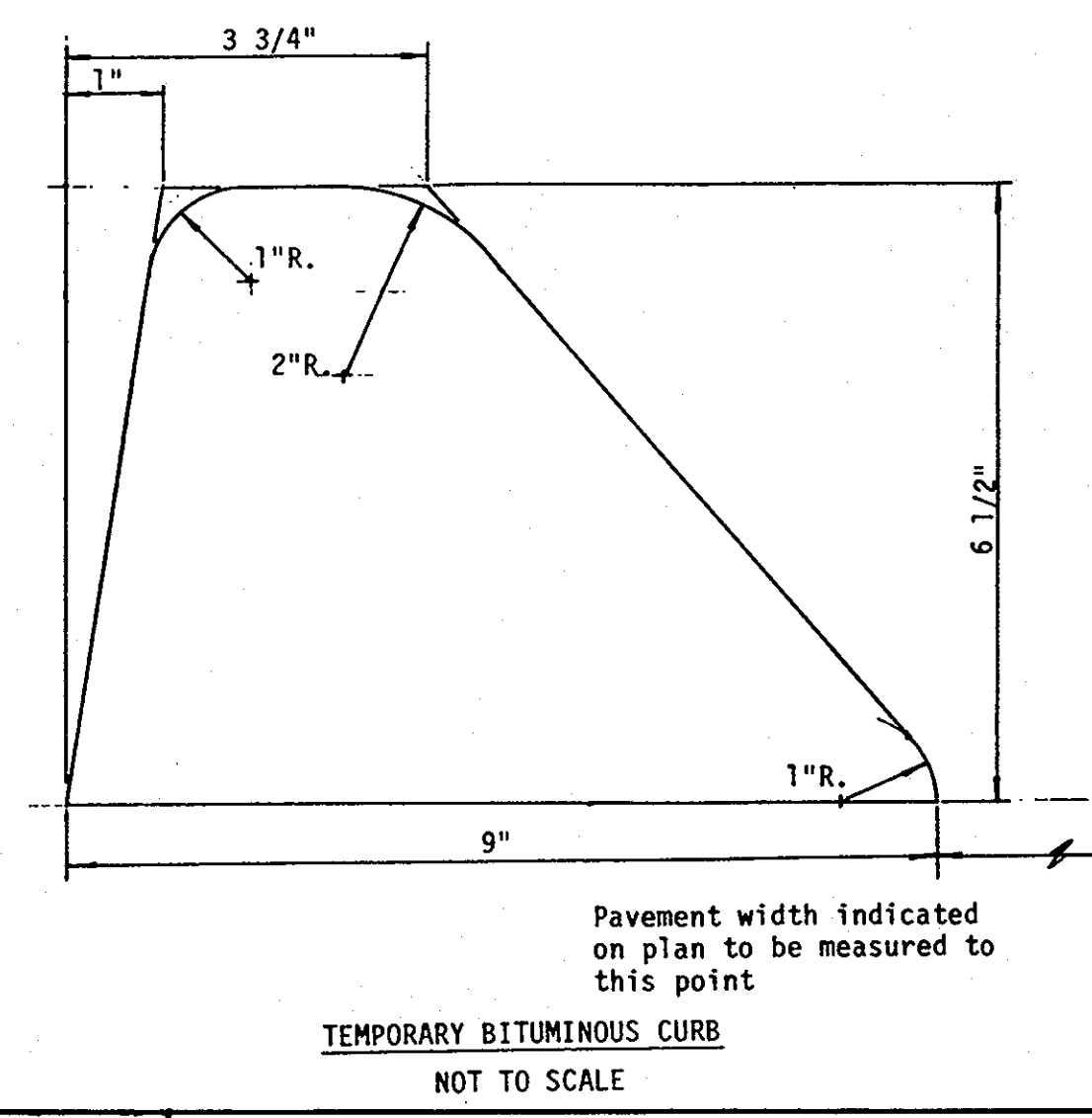
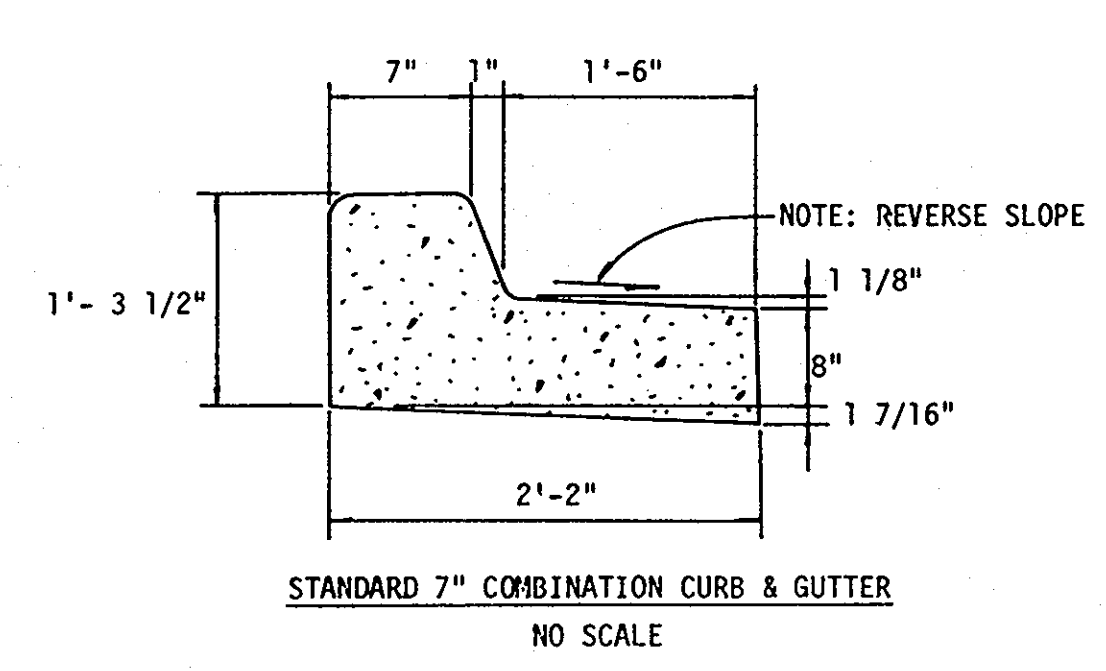
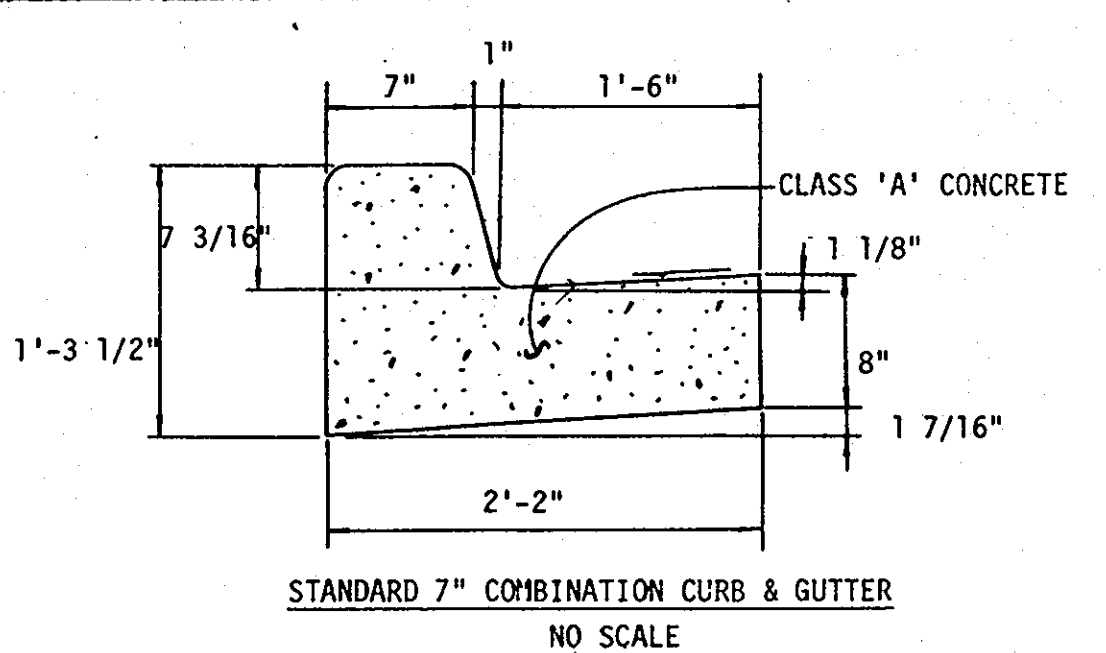
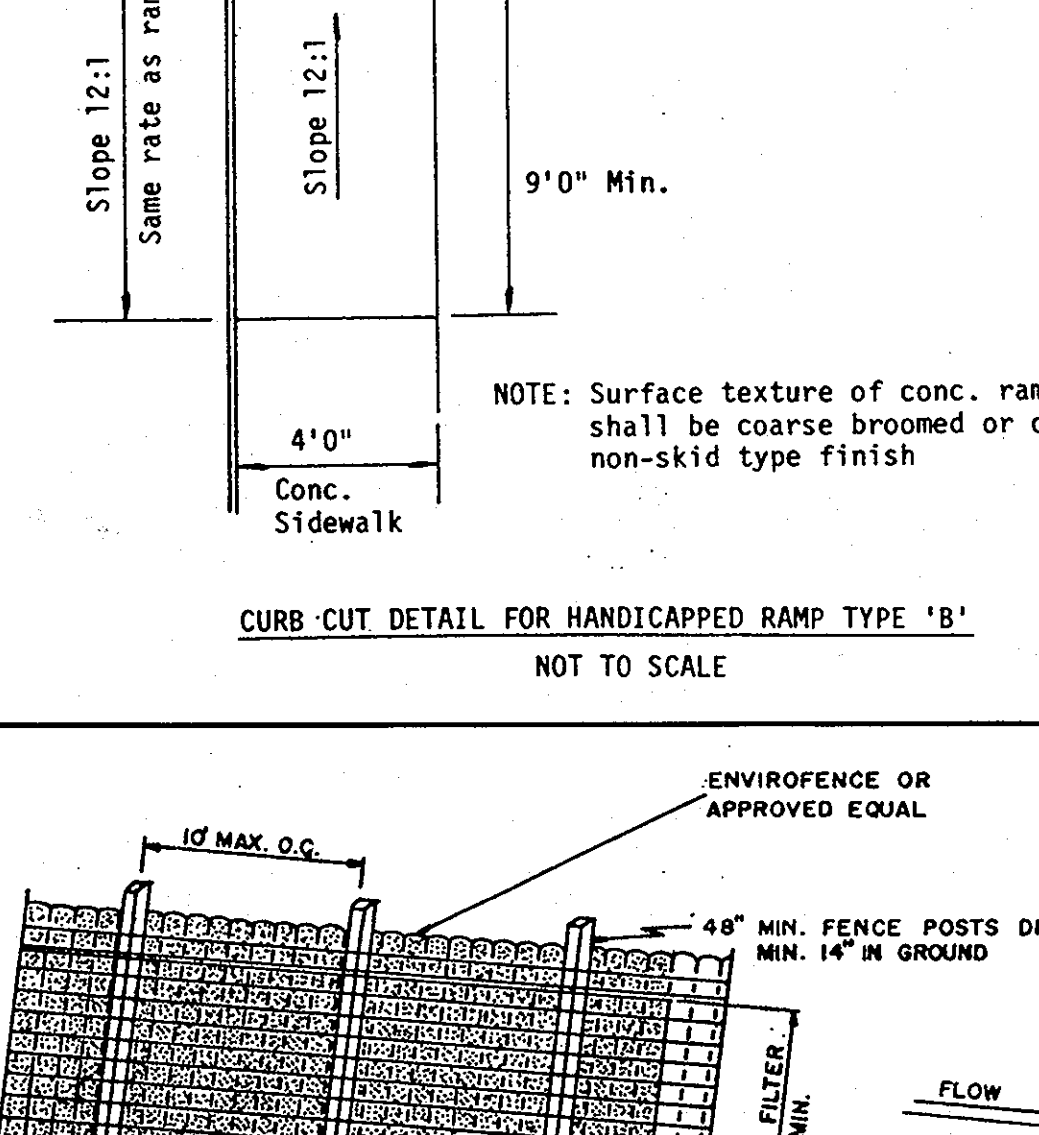
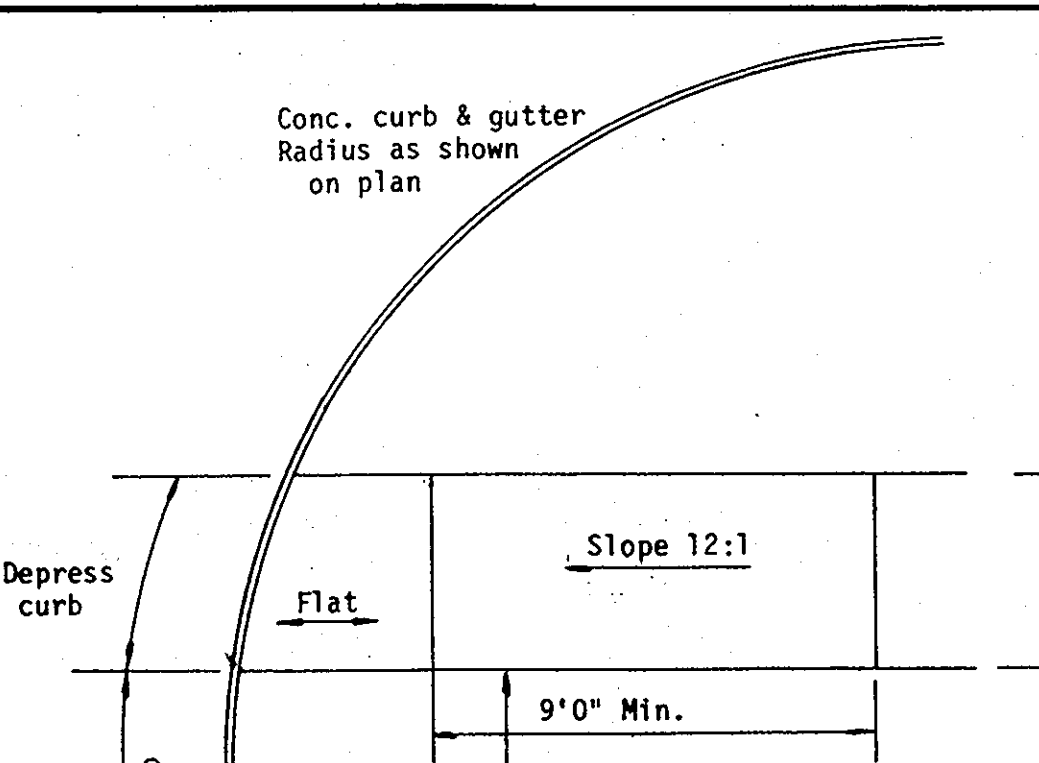
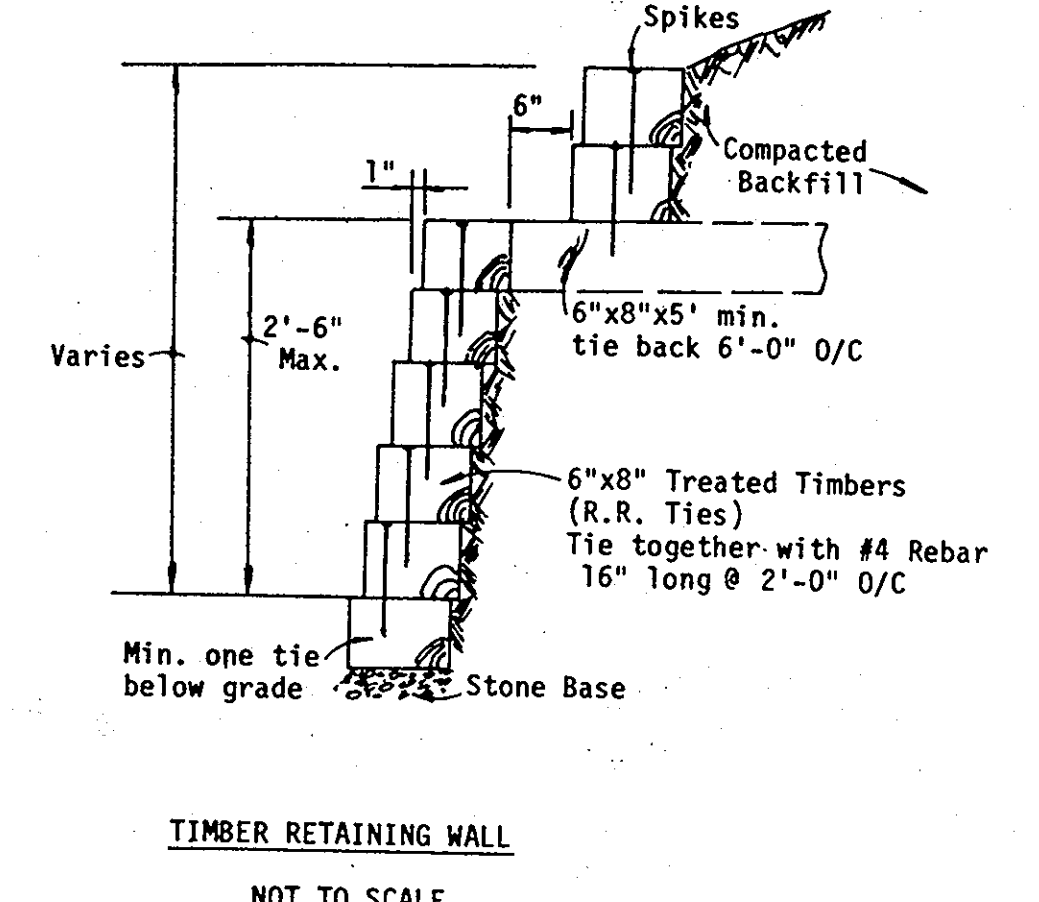
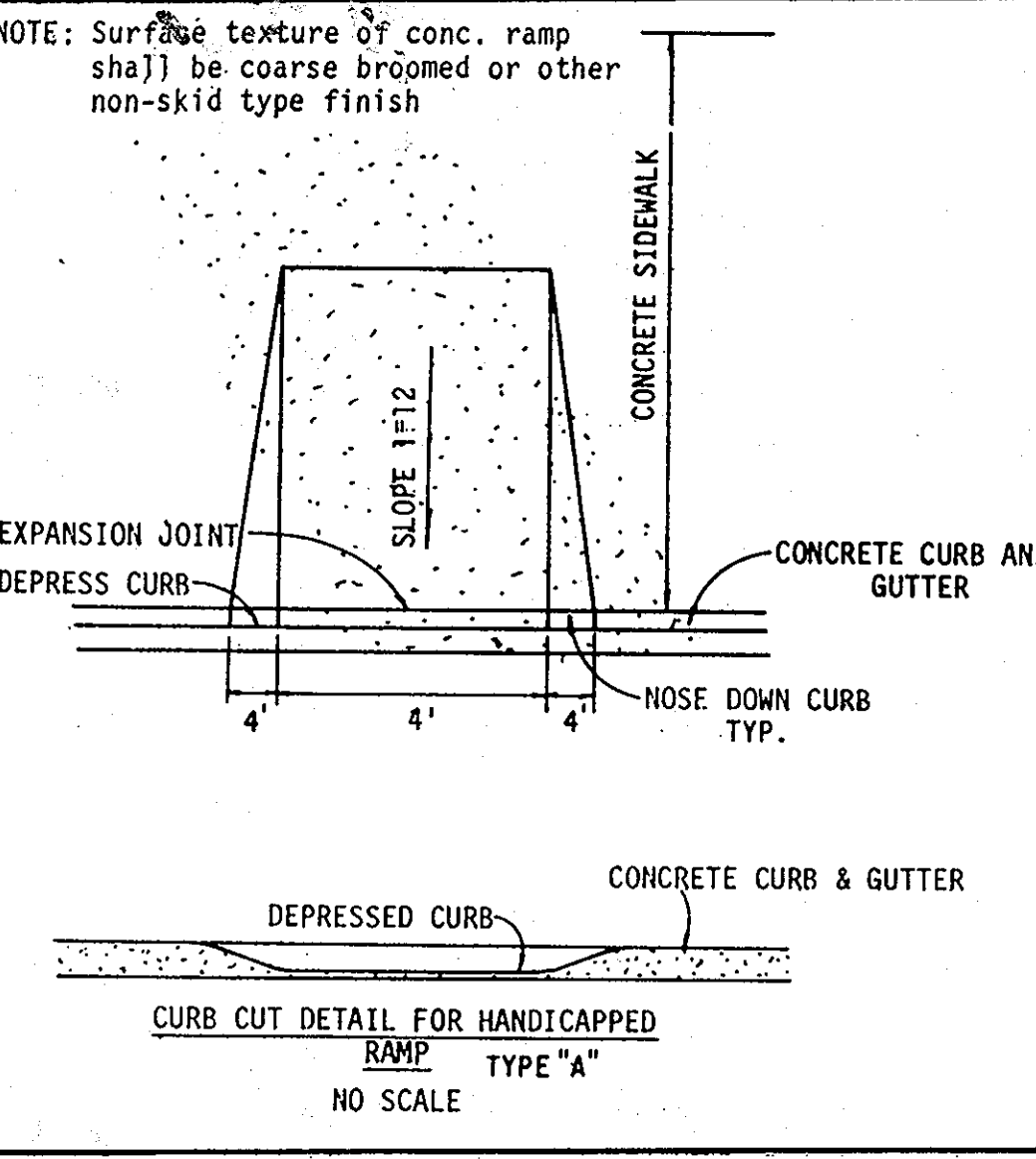


SEDIMENT CONTROL NOTES

- SPECIFICATIONS FOR THE SEDIMENT CONTROL DETAILS INCLUDED IN THE U.S.D.A. SOIL CONSERVATION SERVICE "STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL IN DEVELOPING AREAS."
- THE DEVELOPER SHALL NOTIFY THE HOWARD COUNTY OFFICE OF INSPECTION AND PERMITS AT LEAST 24 HOURS PRIOR TO BEGINNING ANY CONSTRUCTION SHOWN HEREON (992-2433).
- SEDIMENT CONTROL STRUCTURES TO BE CONSTRUCTED PRIOR TO ANY ON-SITE GRADING OR DISTURBANCE TO ANY EXISTING SURFACE MATERIAL, AND ARE TO BE STABILIZED AS SOON AS CONSTRUCTED.
- ALL SEDIMENT CONTROL STRUCTURES TO REMAIN IN PLACE UNTIL PERMITS FOR THEIR REMOVAL HAS BEEN OBTAINED FROM THE HOWARD COUNTY OFFICE OF INSPECTION AND PERMITS (992-2433).
- ALL GRADED AREAS NOT TO BE SODDED SHALL BE STABILIZED BY SEEDING AND MULCHING IN ACCORDANCE WITH THE FOLLOWING:
 - SITE PREPARATION
 - HARROW OR DISC IN AREAS PROPOSED TO BE SEEDING THE FOLLOWING MATERIALS:
 - PULVERIZED LIMESTONE AT 2 TONS/ACRE.
 - COMMERCIAL FERTILIZER 10-10-10 AT 3/4 TONS/ACRE.
 - SUPER PHOSPHATE AT 600 LBS./ACRE.
 - SEEDING
 - SOW THE FOLLOWING SEED MIXTURE AT THE RATE OF 200 LBS./ACRE WITH A MECHANICAL SPREADER.
 - TEMPORARY: ITALIAN OR PERENNIAL RYE GRASS.
 - PERMANENT: 40% MARION BLUE GRASS, 40% DAKOTA BLUE GRASS AND 20% PENN LAMN CREEPING FESCUE.
 - THE SEEDED AREA SHALL THEN BE RAKED WITH A YORK RAKE (A MINIMUM OF 2 PASSES) COVERED AND COMPACTED WITH CULTIPACKER OR OTHER APPROVED METHOD.
 - MULCHING
 - SEEDING AREAS SHALL BE UNIFORMLY MULCHED IMMEDIATELY AFTER SEEDING WITH UNWEATHERED SMALL GRAIN STRAW AT THE RATE OF 1 1/2-2 TONS/ACRE.
 - TIE MULCH DOWN WITH LIQUID ASPHALT AT 0.1 GAL./S.Y. OR EMULSIFIED ASPHALT AT 0.04 GAL./S.Y. OR MULCH NETTING.



- CONSTRUCTION SEQUENCE**
- OBTAIN GRADING AND BUILDING PERMIT.
 - CONSTRUCT STABILIZED CONSTRUCTION ENTRANCE.
 - CONSTRUCT PERIMETER DIKE. EXCAVATE SEDIMENT TRAP TO REQUIRED DIMENSIONS AS SHOWN ON PLAN. CONSTRUCT STONE OUTLET STRUCTURE. STABILIZE TRAP AND DIKE USING TEMPORARY SEEDING MIXTURE.
 - GRADE SITE TO SUBGRADE. BEGIN EXCAVATION OF SWIMMING POOLS.
 - INSTALL ON-SITE UTILITIES. CONSTRUCT ON-SITE BUILDINGS AND SWIMMING POOLS.
 - CONSTRUCT CONCRETE CURBS AND INSTALL BASE COURSE FOR PAVING.
 - DURING CONSTRUCTION, SEDIMENT SHALL BE REMOVED FROM THE SEDIMENT TRAP WHEN THE CLEANOUT ELEVATION HAS BEEN REACHED.
 - AFTER EACH RAINFALL, THE CONTRACTOR SHALL INSPECT AND PROVIDE NECESSARY MAINTENANCE OF THE SEDIMENT AND EROSION CONTROL STRUCTURES SHOWN HEREON.
 - THE SEDIMENT TRAP SHALL BE DEMATERED BY PUMPING IF NECESSARY.
 - THE SEDIMENT FROM THE TRAP SHALL BE PLACED UP-GRADE FROM THE SEDIMENT TRAP IN SUCH A MANNER AS NOT TO INTERFERE WITH CONSTRUCTION OPERATIONS OR CAUSE EROSION DOWNGRADE FROM THE SEDIMENT TRAP.
 - REMOVE SEDIMENT FROM ROADWAYS AND DRESS STONE CONSTRUCTION ENTRANCE AS REQUIRED.
 - FILL DIRT FOR SEDIMENT TRAP AREA WILL BE STOCKPILED ON PARCEL 'F' UNTIL THE POOL SITE HAS BEEN PAVED AND STABILIZED. INSTALL SILT-FENCE AT THE TOE OF SLOPE AND FILL SEDIMENT TRAP AREA.
 - BACKFILL PERIMETER DIKE. STABILIZE SUPPORTING SLOPES WITH PERMANENT SEEDING.
 - REMOVE STONE CONSTRUCTION ENTRANCE.
 - CLEAN BASE COURSE, APPLY TACK COAT TO BASE COURSE, LAY SURFACE COURSE, LAY SIDEWALKS, INSTALL FENCES.
 - ALL DISTURBED AREAS DUE TO REMOVAL OF SEDIMENT CONTROL MEASURES SHALL BE GRADED AND STABILIZED BY PERMANENT SEEDING.



ENGINEER'S CERTIFICATE

I HEREBY CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL IS PRACTICAL AND WORKABLE PLAN BASED ON THE ENGINEER'S KNOWLEDGE OF THE SITE CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD COUNTY SOIL CONSERVATION DISTRICT.

SIGNATURE OF ENGINEER: *[Signature]* DATE: _____

DEVELOPER'S CERTIFICATE

"I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN OF DEVELOPMENT AND PLAN FOR EROSION AND SEDIMENT CONTROL AND THAT ALL 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 ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD COUNTY SOIL CONSERVATION DISTRICT OR THEIR AUTHORIZED AGENTS, AS ARE DEEMED NECESSARY."

SIGNATURE OF DEVELOPER: *[Signature]* DATE: _____

REVIEWED FOR HOWARD COUNTY SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS.

SIGNATURE OF REVIEWER: *[Signature]* DATE: 5-10-83

U.S. SOIL CONSERVATION SERVICE DATE: _____

THIS DEVELOPMENT IS APPROVED FOR EROSION AND SEDIMENT CONTROL BY THE HOWARD COUNTY SOIL CONSERVATION DISTRICT.

APPROVED: *[Signature]* DATE: 5-10-83

DISTRICT COORDINATOR FOR HOWARD COUNTY SOIL CONSERVATION DISTRICT

APPROVED: DEPARTMENT OF PUBLIC WORKS FOR PUBLIC WATER AND SEWER AND STORM DRAINAGE SYSTEMS AND ROADS.

DIRECTOR, PUBLIC WORKS: *[Signature]* DATE: 5-25-83

CHIEF, BUREAU OF ENGINEERING: *[Signature]* DATE: 5-25-83

APPROVED: OFFICE OF PLANNING AND ZONING

PLANNING DIRECTOR: *[Signature]* DATE: 5-26-83

CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION: *[Signature]* DATE: 5-26-83

APPROVED: HOWARD COUNTY HEALTH DEPARTMENT FOR PUBLIC WATER AND SEWERAGE SYSTEMS.

HEALTH OFFICER: *[Signature]* DATE: 5-25-83

APPROVED

PLANNING BOARD OF HOWARD COUNTY

DATE: 5-4-83

[Signature]

LIGHTING NOTES:

- ALL EXTERIOR LIGHTING SHALL BE DIRECTED/REFLECTED AWAY FROM ANY ADJACENT RESIDENTIALLY ZONED PROPERTIES AND PUBLIC RIGHT OF WAYS.
- TYPE 'A' 1. 82200 * 60-1013-250 MH - R2A WITH F4350 R2A ROUND TAPERED ALUMINUM POLE WITH BASE COVER.
- TYPE 'B' 1. 82200 * 60-1013-400 MH - R2A WITH F4352 R2A ROUND TAPERED ALUMINUM POLE WITH BASE COVER.

Rev. Date	Rev. No	Revision Description

COLUMBIA MARYLAND

PROJECT AREA: VILLAGE OF KINGS CONTRIVANCE SECTION 3, AREA 1 6TH ELECTION DISTRICT HOWARD COUNTY, MD.

PROJECT TITLE: PART OF OPEN SPACE LOT 284 & PARCEL 'F' HUNTINGTON NEIGHBORHOOD POOL

Des. By: B.D. BURTON Scale: AS SHOWN Dwg. No. 2 OF 2

Drn. By: F.C.C. Date: 3/16/83 C.C.F. No.

Chk. By: R.B. CARTER Approved

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