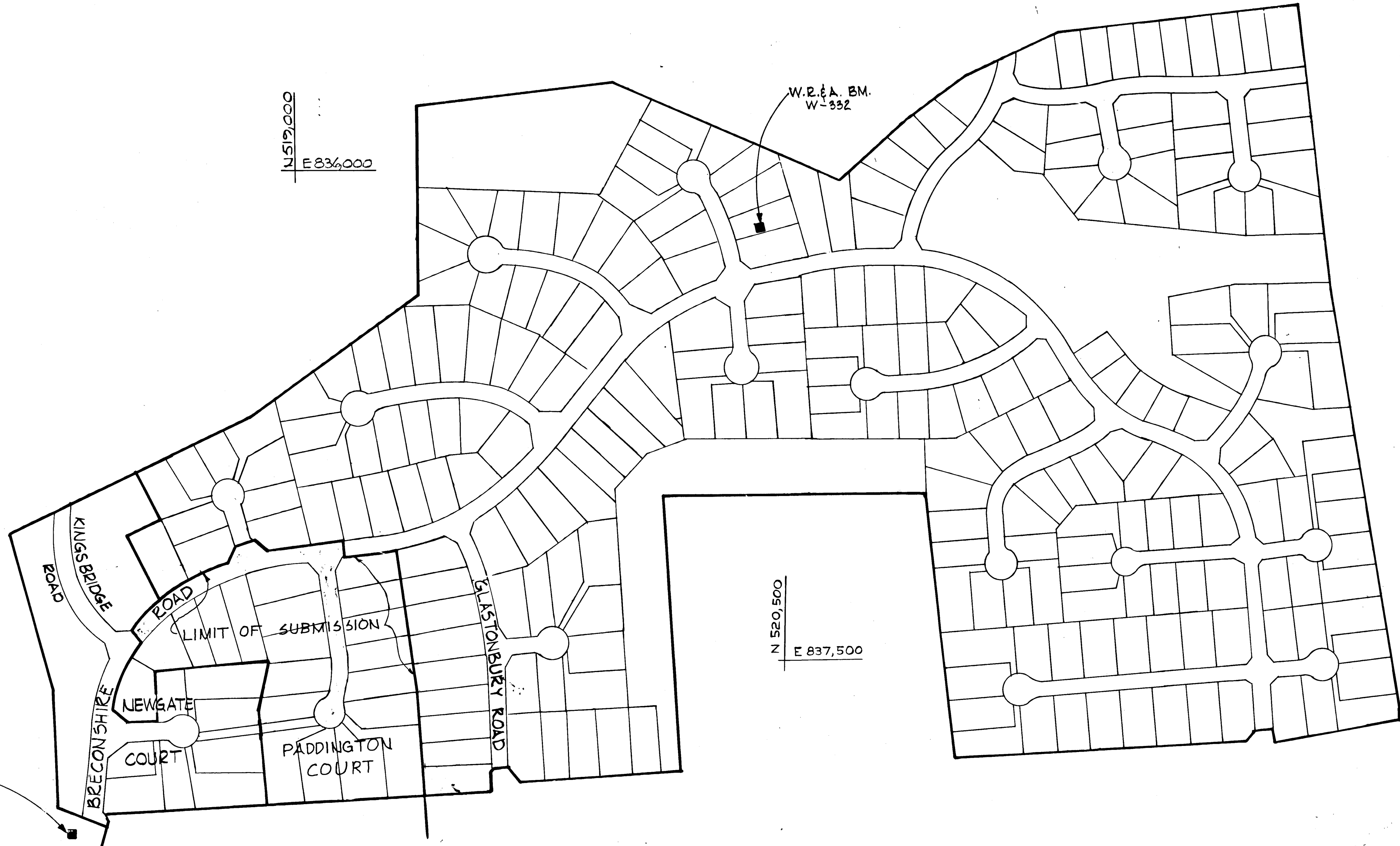
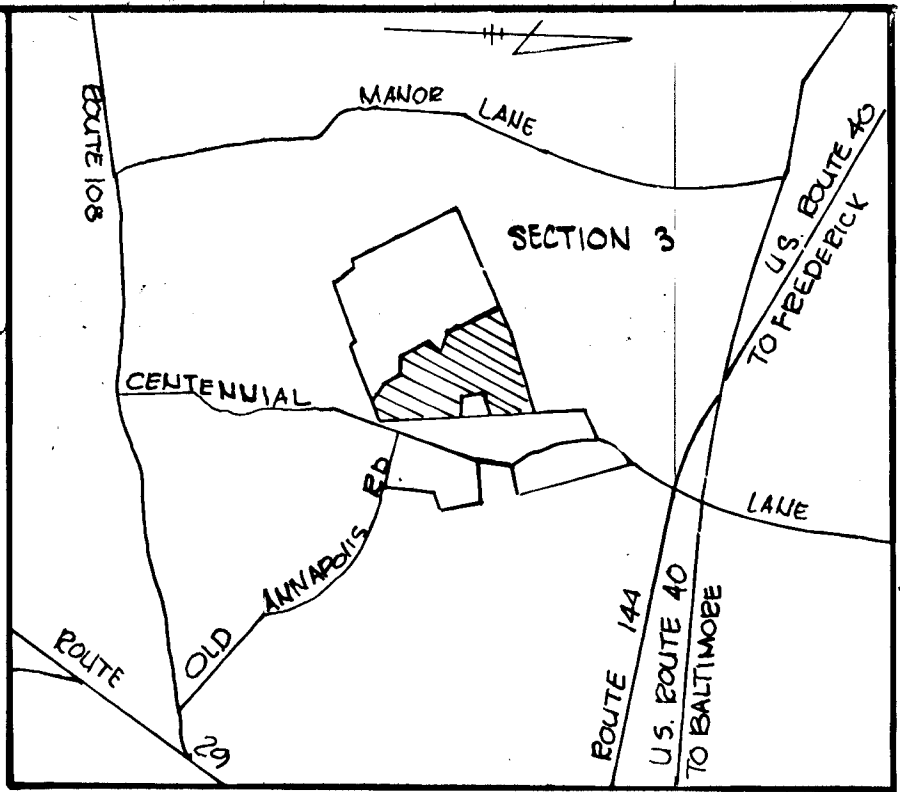
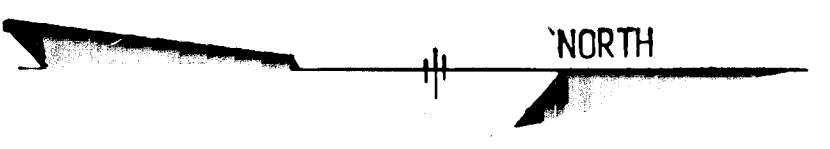


NO.	SHEET INDEX DESCRIPTION
1.	TITLE SHEET
2.	PLAN AND PROFILE BRECONSHIRE ROAD
3.	PLAN AND PROFILE PADDINGTON COURT
4.	ROADWAY AND STORM DRAIN DETAILS
5.	DRAINAGE AREA MAP
6.	STORM DRAIN PROFILES
7.	DRAINAGE AREA MAP FOR SEDIMENT CONTROL
8.	SEDIMENT CONTROL PLAN
9.	SEDIMENT CONTROL DETAILS
10.	SEDIMENT CONTROL DETAILS



N 519,000
E 836,000

N 520,500
E 837,500

- GENERAL NOTES**
1. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE HOWARD COUNTY STANDARDS, SPECIFICATIONS AND DETAILS FOR CONSTRUCTION.
 2. ALL UTILITY COMPANIES SHALL BE NOTIFIED 24 HOURS IN ADVANCE OF CONSTRUCTION.
 3. ALL INLETS SHALL BE HOWARD COUNTY STANDARDS UNLESS OTHERWISE SHOWN.
 4. ALL STREET CURB RETURNS SHALL HAVE A 30.0' RADIUS UNLESS OTHERWISE NOTED.
 5. STORM DRAIN TRENCHES WITHIN ROAD RIGHTS-OF-WAY SHALL BE BACKFILLED AND COMPACTED IN ACCORDANCE WITH THE HOWARD COUNTY ROAD CODE.
 6. APPROXIMATE LOCATION OF EXISTING UTILITIES ARE SHOWN. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT THE EXISTING UTILITIES AND TO MAINTAIN UNINTERRUPTED SERVICE. ANY DAMAGE INCURRED DUE TO CONTRACTOR'S OPERATIONS SHALL BE REPAIRED IMMEDIATELY AT THE CONTRACTOR'S EXPENSE.
 7. THE CONTRACTOR SHALL TEST PIT EXISTING UTILITIES WHERE DIRECTED BY THE ENGINEER A MINIMUM OF TWO WEEKS IN ADVANCE OF ANY CONSTRUCTION.
 8. TEMPORARY COMPACTED 18" HIGH EARTH FILL DIVERSION DIKES SHALL BE CONSTRUCTED ABOVE THE LIPS OF FILL SLOPES ON THE R.O.W. CONCURRENTLY WITH THE INITIAL GRADING AND DIRECTED TO UNDISTURBED SOG AREAS AT THE END OF EACH DAY.
 9. CONTRACTOR TO NOTIFY THE HOWARD COUNTY DEPT. OF INSPECTIONS AND PERMITS AT LEAST 3-DAYS BEFORE STARTING WORK SHOWN ON THESE DRAWINGS. TELEPHONE NO. 792-2630.
 10. ALL DISTURBED SLOPE AREAS TO BE STABILIZED AS SOON AS GRADING IS COMPLETED.
 11. ALL REINFORCED CONCRETE FOR STORM DRAIN STRUCTURES SHALL HAVE A MINIMUM OF 28 DAYS STRENGTH OF 3500 P.S.I.
 12. ALL SWALES AND SLOPES SHALL BE PERMANENTLY SEEDED. SEE THE SEED SPECIFICATIONS ON SHEET 7.
 13. TRAFFIC CONTROL DEVICES AND THEIR INSTALLATION SHALL BE IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, 1978 REVISED EDITION.
 14. STABILENKA (FILTER CLOTH T-100) OR EQUAL SHALL BE PLACED UNDER ALL STONE RIP-RAP (FULL WIDTH AND LENGTH OF STONE.)
 15. STONE FOR RIP-RAP SHALL BE AS SPECIFIED ON THE DRAWINGS. ALL RIP-RAP SHALL BE UNPAVED.
 16. STUBS FOR 6" P.V.C. UNDERDRAIN PIPE TO BE INSTALLED AT CENTER OF EACH WALL OF EVERY INLET.
 17. LAMP POST - A 250-WATT MERCURY VAPOR LAMP PENDANT MOUNTED FIXTURE ON A 30-FOOT BRONZE ALUMINUM POLE.
 18. LAMP POST - A 175 WATT MODERN MERCURY VAPOR LAMP POST TOP FIXTURES ON A 12-FOOT BRONZE FIBERGLASS POLE.

MONUMENT
3040001

BENCH MARKS

HOWARD COUNTY CONTROL POINT 3040001 - - CONCRETE MON. @ SURFACE - 25'±
E. OF C. OF CENTENNIAL LANE.
70'± S. OF OLD ANNAPOLIS ROAD
ELEV. 494.422

W.R. & A. B.M. W-332 - - - - - IRON PIPE (TRAVERSE POINT) - 140'±
W. OF C. STA. 29+35± BRECONSHIRE ROAD
ELEV. 449.16

LOCATION PLAN

SCALE: 1" = 200'

STATION	HORIZONTAL & VERTICAL CONTROL		
	NORTH	EAST	ELEV.
3140002	572790.09	829590.841	445.77
3140001	573541.740	829090.376	436.43

R/C INDICATES 3' LONG 5/8" REBAR WITH CAP SET FLUSH WITH GROUND

STORM WATER MANAGEMENT FOR THIS PROJECT HAS BEEN PROVIDED IN BURLEIGH MANOR SECTION 3 AREA 4. F-79-93

NOTE:
THE AS-BUILT INFORMATION SHOWN ON THESE DRAWINGS WAS DRAFTED BY FISHER, COLLINS & CARTER, INC. THIS INFORMATION WAS TAKEN FROM THE AS-BUILT RED LINED PRINTS PREPARED BY MCKEE ASSOCIATES. DATE: 6-19-91

REV. DATE	REV. NO.	REVISION	DESCRIPTION

BURLEIGH MANOR
SECTION 3 AREA 4
LOTS 422 - 441
ROAD CONSTRUCTION PLANS
2nd ELECTION DISTRICT OF HOWARD COUNTY, MD.

DEVELOPER
ROSE / RICHMOND JOINT VENTURE
BALTIMORE, MARYLAND

SCALE: AS SHOWN DATE: 11/6/87

WHITMAN, REQUARDT AND ASSOCIATES
ENGINEERS
2315 SAINT PAUL STREET
BALTIMORE, MARYLAND 21218
Kenneth A. McCord
KENNETH A. MCCORD P. E. No. 1974

OWNER
GERALD M. KATZ &
THOMAS J. PELLERITO, TRUSTEES
BALTIMORE, MARYLAND

OFFICE OF PLANNING AND ZONING
James R. Keith 5/11/88
CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT

Street Trees:
The location, type and number of trees shown on these plans are tentative and are used for bond purposes only. The final location and variety of trees may vary to accommodate field conditions and builders landscape program. Bond release is contingent upon Section 16.181 of Howard County Subdivision Regulations, as approved by the Office of Planning and Zoning. The type of hardwood trees to be used are Acer Rubra (Red Maple), Platanus Acerifolia (London Plane Tree) or Tilia Cordata (Little Leaf Linden).

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

Joseph J. ... 4/27/88
CHIEF, LAND DEVELOPMENT DIVISION DATE

Granville W. ... 4/29/88
CHIEF, BUREAU OF HIGHWAY DATE

... 5-2-88
CHIEF, BUREAU OF ENGINEERING DATE

APPROVED: HOWARD COUNTY
DEPARTMENT OF PUBLIC WORKS

Joseph L. ... 4/27/88
Chief, Land Development Division
Donna W. ... 4/28/88
Chief, Bureau of Highways
James ... 5-1-88
Chief, Bureau of Engineering
OFFICE OF PLANNING & ZONING

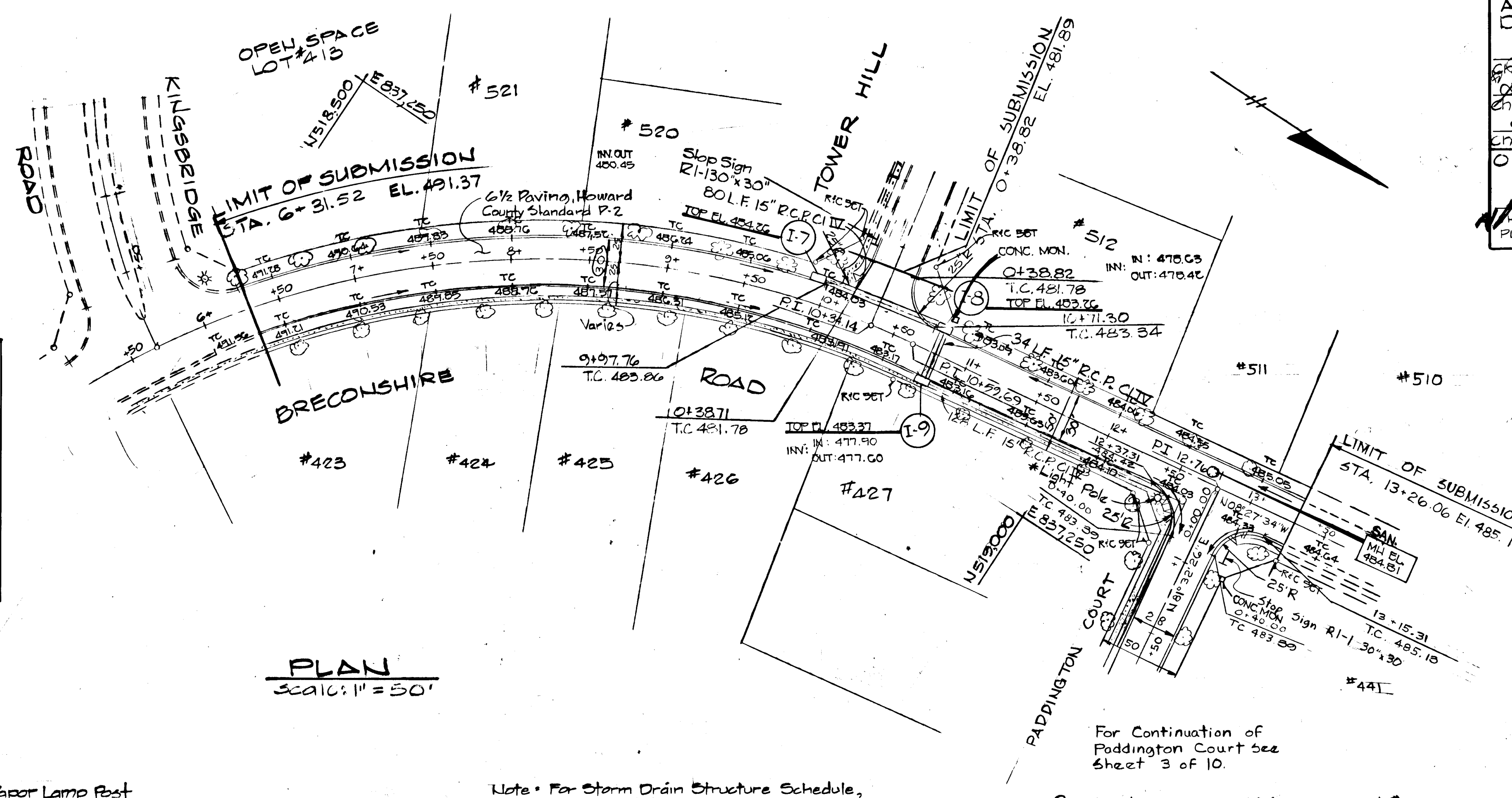
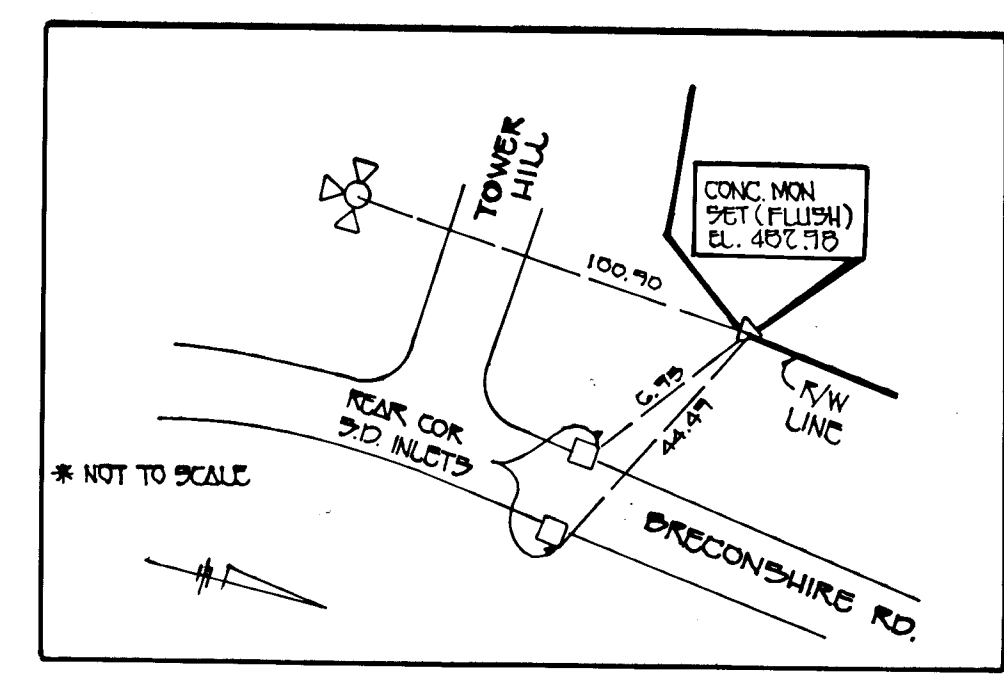
James ... 5/11/88
CHIEF, DIVISION OF COMMUNITY
PLANNING AND LAND DEVELOPMENT

REV. DATE	REV. NO.	REVISION DESCRIPTION
		BURLEIGH MANOR 2 ND ELECTION DISTRICT HOWARD COUNTY, MARYLAND DEVELOPER ROSE/RICHMOND JOINT VENTURE
		PROJECT AREA BURLEIGH MANOR SECTION 3 AREA 4
		PLAN AND PROFILE BRECONSHIRE ROAD
		SCALE: 1"=50' DATE: 11/6/87
		WHITMAN, REQUARD AND ASSOCIATES ENGINEERS BALTIMORE, MARYLAND 21218
		<i>Kenneth A. McCord</i> KENNETH A. MCCORD Registered Engineer No. 1574

CURVE DATA

STA. 6+31.52 to PI 10+34.14
 $\Delta = 41^{\circ}56'35''$ Tan = 210.81'
 R = 550.00 Chd = 393.70'
 Arc = 402.65 Chd Brg = N 22°05'35" W

PI 10+34.14 to P.T. 10+59.69
 $\Delta = 02^{\circ}39'43''$ Tan = 12.78
 R = 550.00 Chd = 273.99'
 Arc = 27.55' Chd Brg = N 09°47'26" W

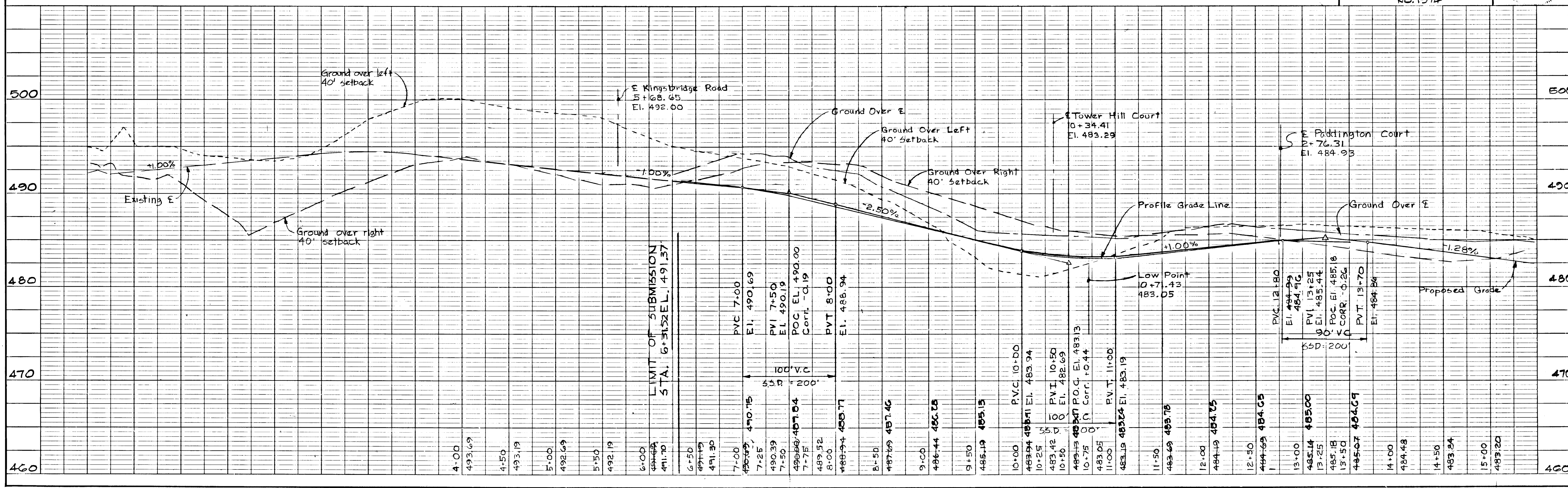


PLAN
SCALE: 1" = 50'

*Note:
*75-Watt "Modern" Mercury Vapor Lamp Post
Top Fixtures on a 14-Foot Gray Fiberglass
Pole Located 2-10' From Back of Curb

Note: For Storm Drain Structure Schedule,
See Sheet #3

Street Trees, See Notes on Sheet #1



PLAN
NO. _____
DATE _____
BY _____
SURVEYED _____
PROFITED _____
ALIGNED CHECKED _____
NOTE BOOK _____
PL. OF WORK CHECKED _____

PROFILE
NO. _____
DATE _____
BY _____
SURVEYED _____
PROFITED _____
GRADES CHECKED _____
NOTE BOOK _____
STRUCTURE NOTATIONS CHECKED _____

721

Joseph L. ... 4/27/88
 CHIEF, LAND DEVELOPMENT DIVISION DATE
Shirley H. ... 4/28/88
 CHIEF, BUREAU OF HIGHWAYS DATE
... 5-1-88
 CHIEF, BUREAU OF ENGINEERING DATE
 OFFICE OF PLANNING AND ZONING

Future Burleigh Manor section 2

*Remarks:

- *I-10, Provide Inlet Deflectors
- *I-11, " " "
- *I-7, " " "
- *I-8, " " "

Street Trees. See Note on Sheet 1.

REVDATE	REVNO	REVISION DESCRIPTION
3/26/82	1	Removed all Notes and Details for 4 foot Pathway Add Note for 20' setback

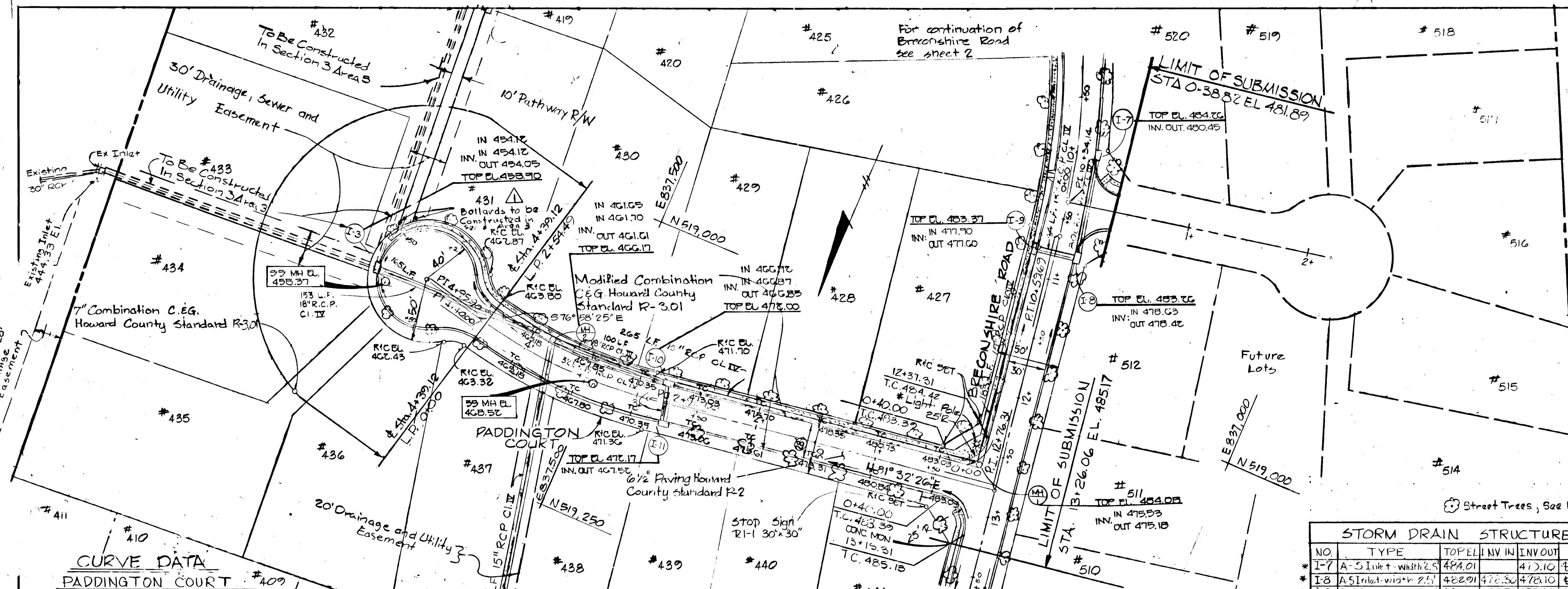
BURLEIGH MANOR
 2ND ELECTION DISTRICT,
 HOWARD COUNTY, MARYLAND
 DEVELOPER
 ROSE/RICHMOND JOINT VENTURE
 PROJECT AREA
 BURLEIGH MANOR
 SECTION 3 AREA 4

PLAN AND PROFILE
 PADDINGTON CT.

SCALE: 1"=50' DATE: 11/6/87

WHITMAN, REQUARDT AND ASSOCIATES
 ENGINEERS
 BALTIMORE, MARYLAND 21218

Kenneth A. McCord
 KENNETH A. MCCORD
 Registered Engineer
 NO. 1974

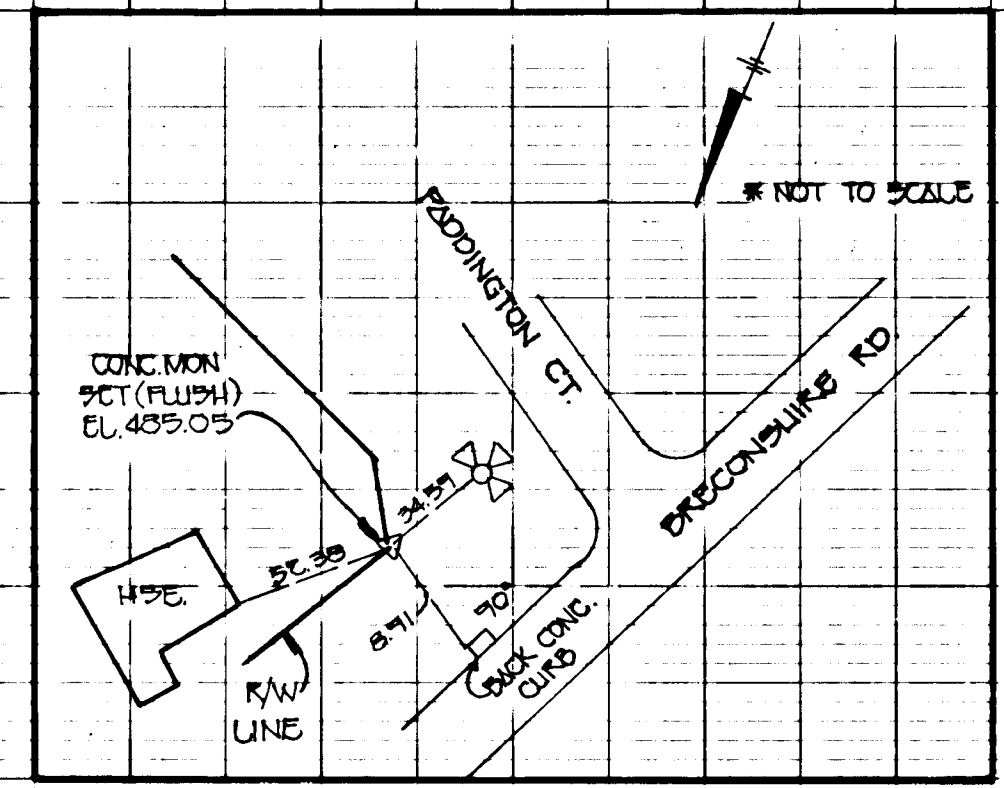
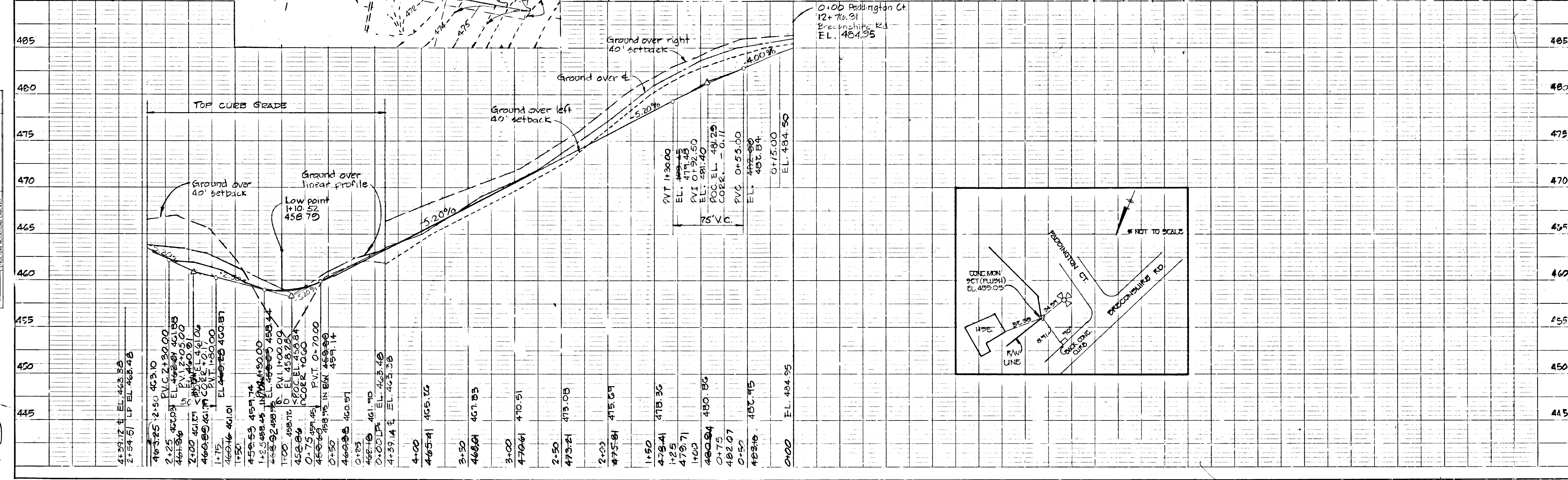


CURVE DATA
 PADDINGTON COURT #409
 RC: 2+90.00 to PT. 4+40.00
 Δ = 21° 29' 09" Tan = 75.89'
 R = 400.00' Chd = 149.12'
 Arc = 150.00' Chd. Rtg = S 87° 43' 00" E

PLAN I-7, I-8, I-9, I-10, I-11 Type A-5 Inlet Howard County Std. S.D. 4.11
 MH-1, MH-2, All 4' Standard Howard County Std. S.D. G-5.12

STORM DRAIN STRUCTURE SCHEDULE

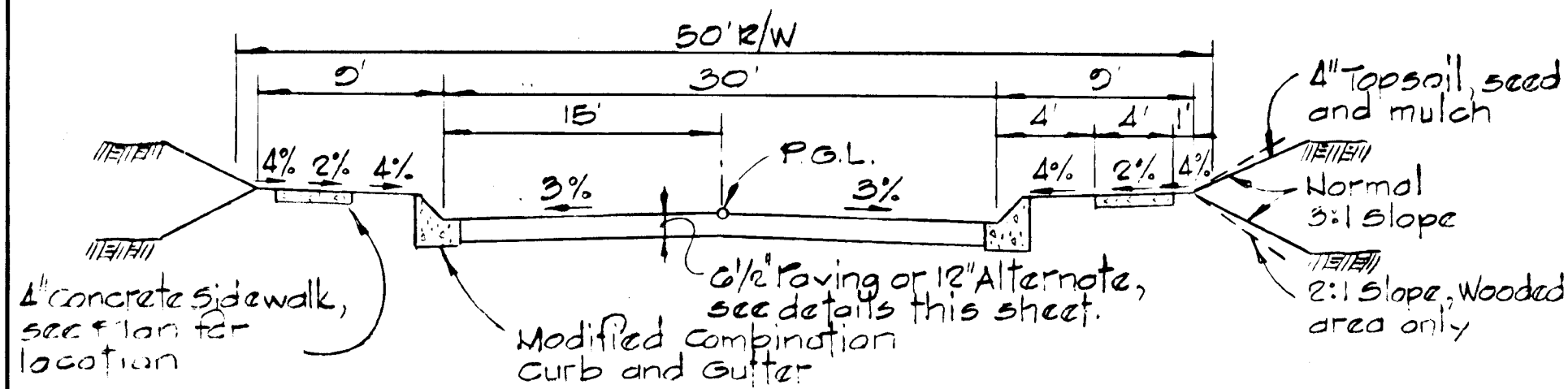
NO.	TYPE	TOP EL.	INV. IN.	INV. OUT.	LOCATION
* I-7	A-5 Inlet width 2.5'	484.01	472.10	472.10	E Inlet 17.67' Lt. Sta. 9+94.59
* I-8	A-5 Inlet width 2.5'	482.91	472.50	472.10	E Inlet 17.67' Lt. Sta. 10+74.47
* I-9	A-5 Inlet width 2.5'	482.91	477.76	477.55	E Inlet 17.67' Lt. Sta. 10+74.47
* I-10	A-5 Inlet width 2.5'	471.60	467.04	466.84	E Inlet 16.67' Lt. Sta. 2+75.00
* I-11	1.5 Inlet width 2.5'	471.76	467.36	467.36	E Inlet 16.67' Lt. Sta. 2+76.00
MH-1	Standard 4'	484.15	475.76	475.56	E MH 17.00' Rt. Sta. 12+55.00
MH-2	Standard 4'	466.30	462.02	461.73	E MH 13.00' Rt. Sta. 3+86.00



PADDINGTON COURT - PROFILE scales: 1"=5' V 1"=50' H

DESIGN SPEED
30 M.P.H.

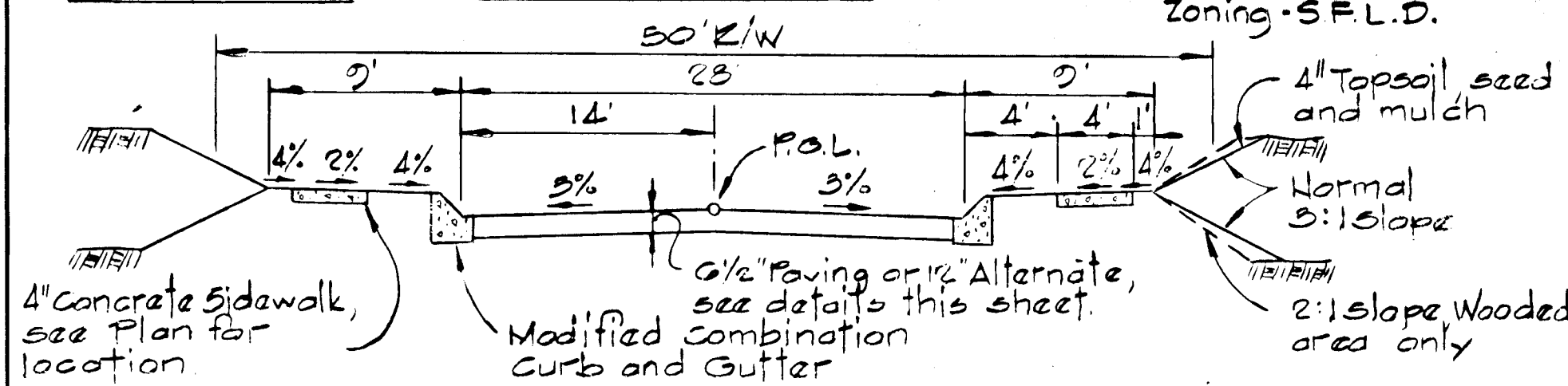
LOCAL STREET Zoning = S.F.L.D.



TYPICAL SECTION BRECONSHIRE RD. 6+31.67 to 13+26.06
No Scale

Design Speed
30 M.P.H.

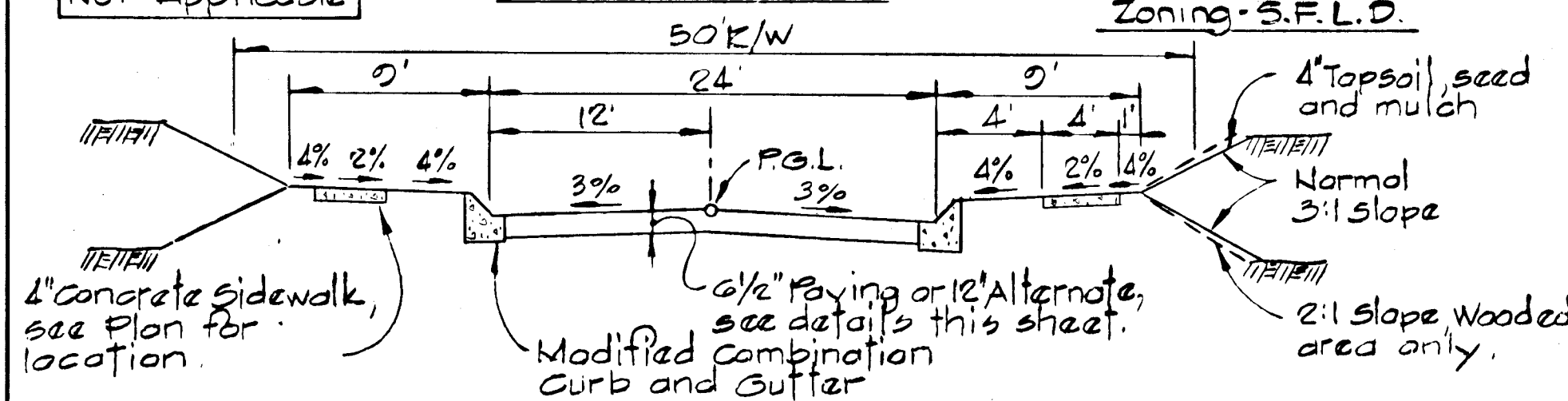
CUL-DE-SAC Zoning - S.F.L.D.



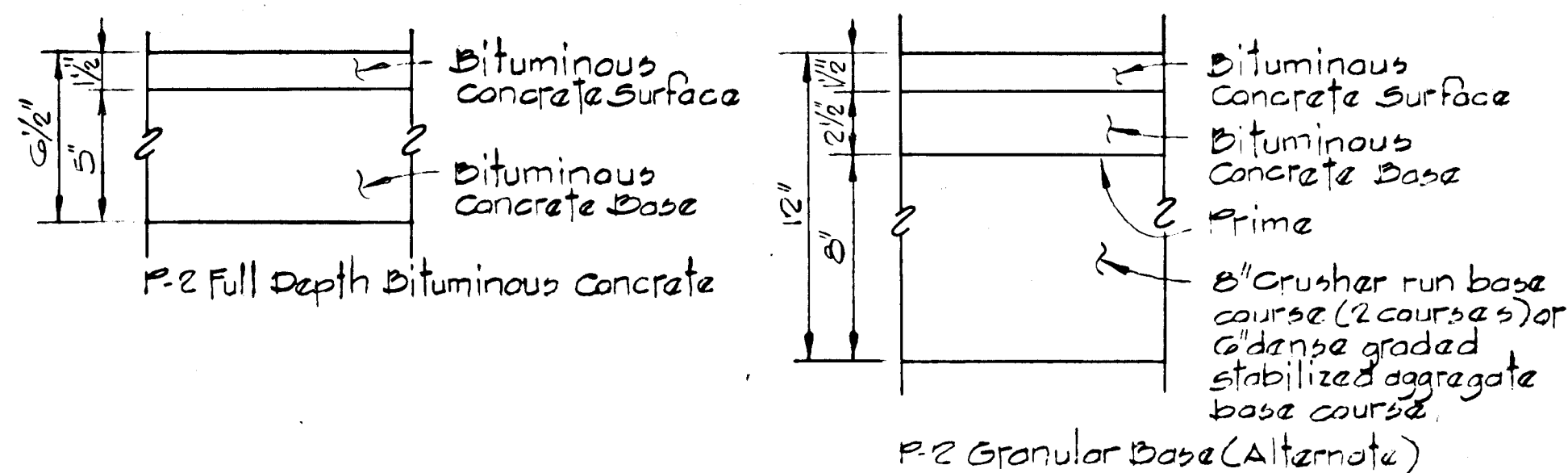
TYPICAL SECTION PADDINGTON CT. 0+00 to 4+95.20
No Scale

Design Speed
Not Applicable

CUL-DE-SAC Zoning - S.F.L.D.



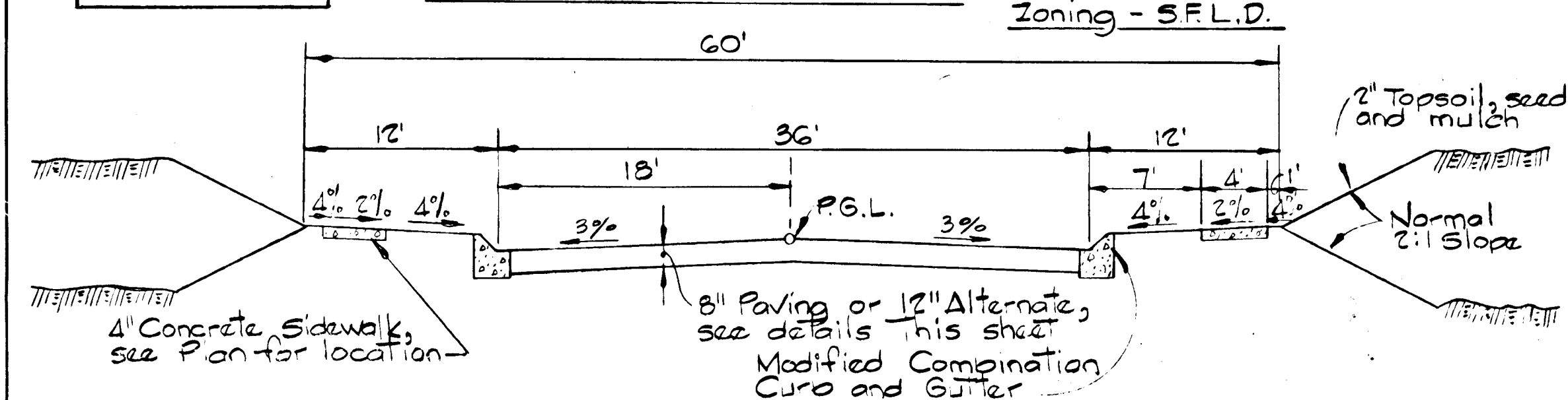
TYPICAL SECTION
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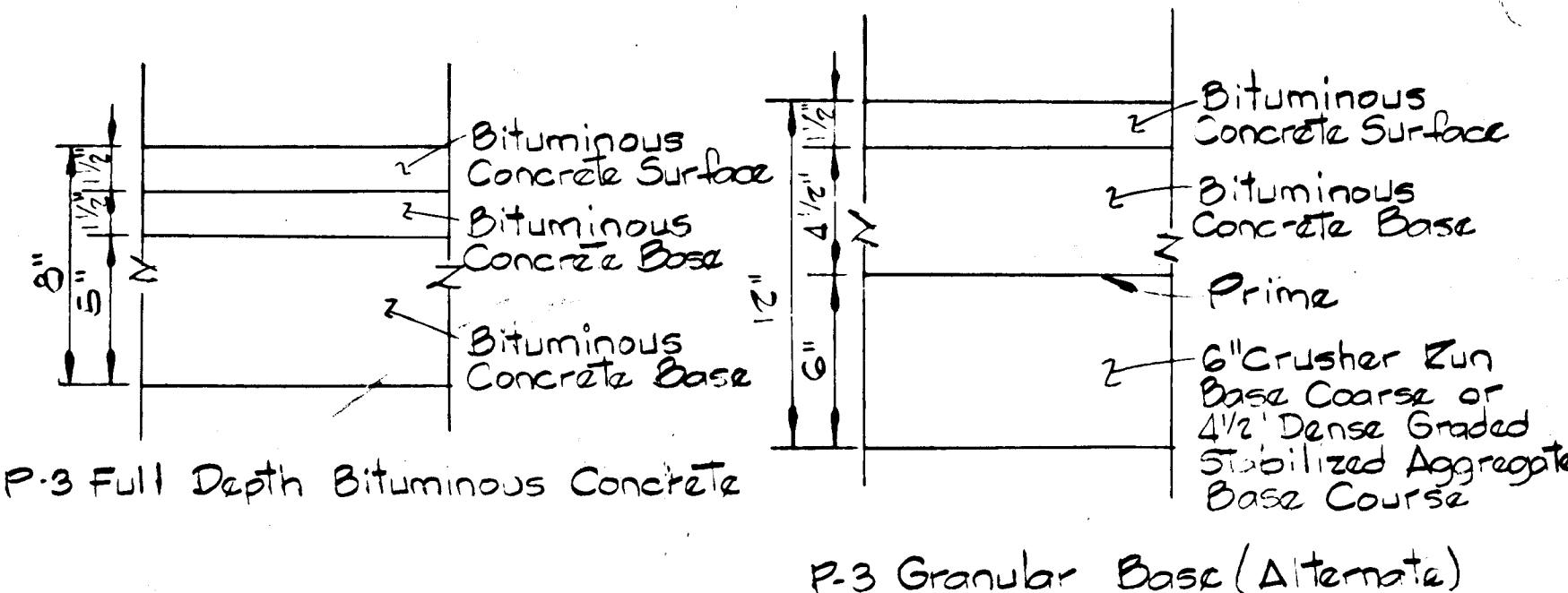
TYPICAL PAVING SECTION
No Scale

Design Speed
35 MPH

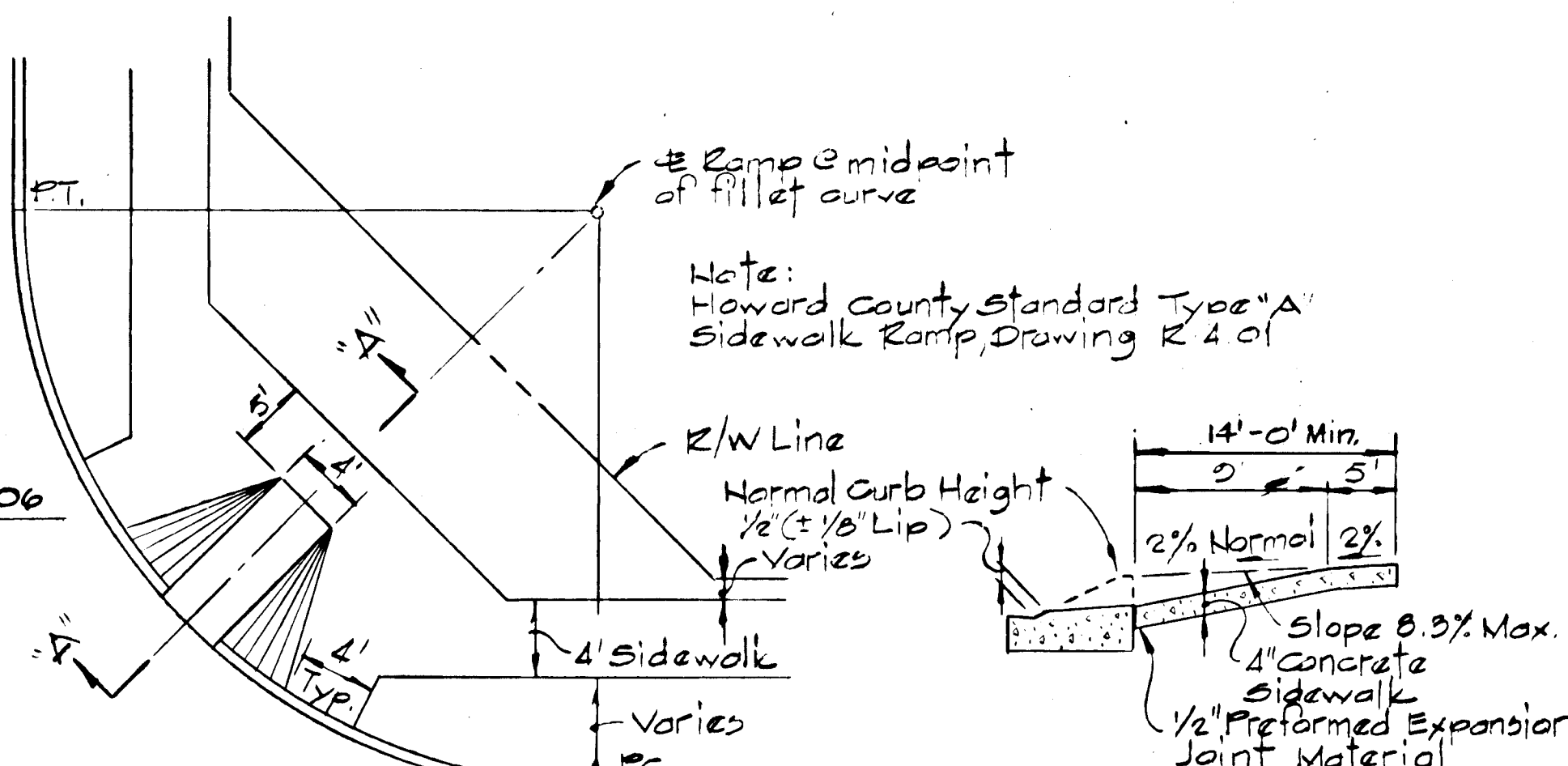
MINOR COLLECTOR Zoning - S.F.L.D.



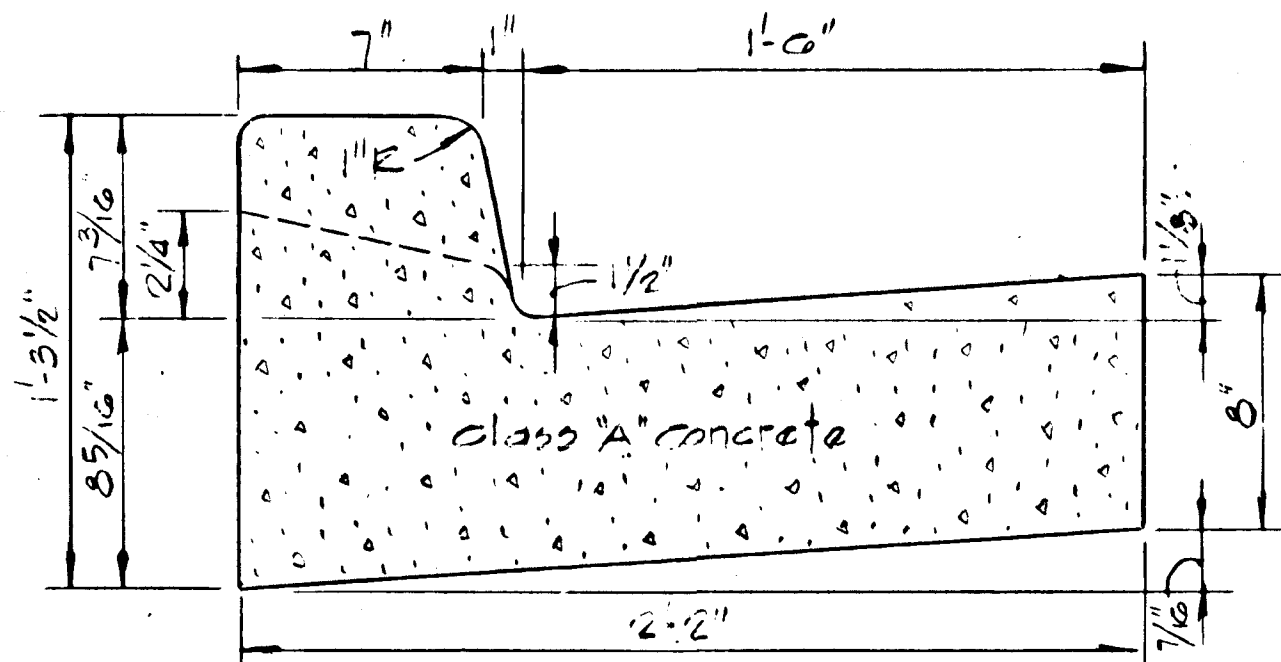
TYPICAL SECTION
No Scale



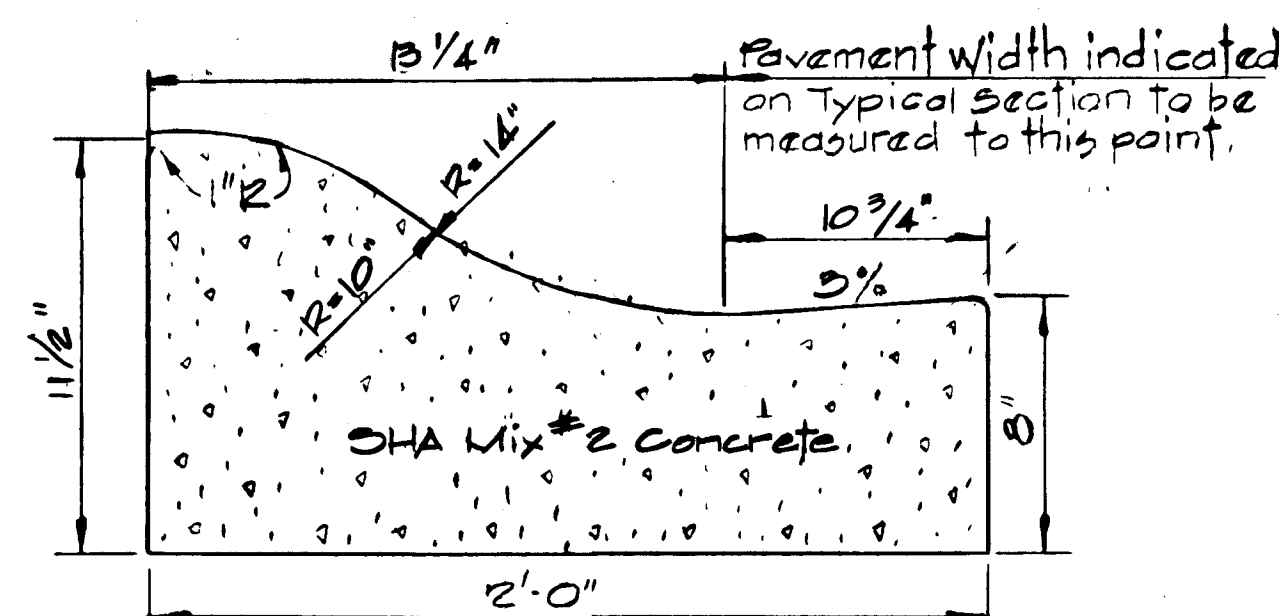
TYPICAL PAVING SECTION
No Scale



PLAN SECTION "A-A"
WHEEL CHAIR RAMP DETAIL
No Scale



STANDARD 7" COMBINATION CURB & GUTTER
No Scale



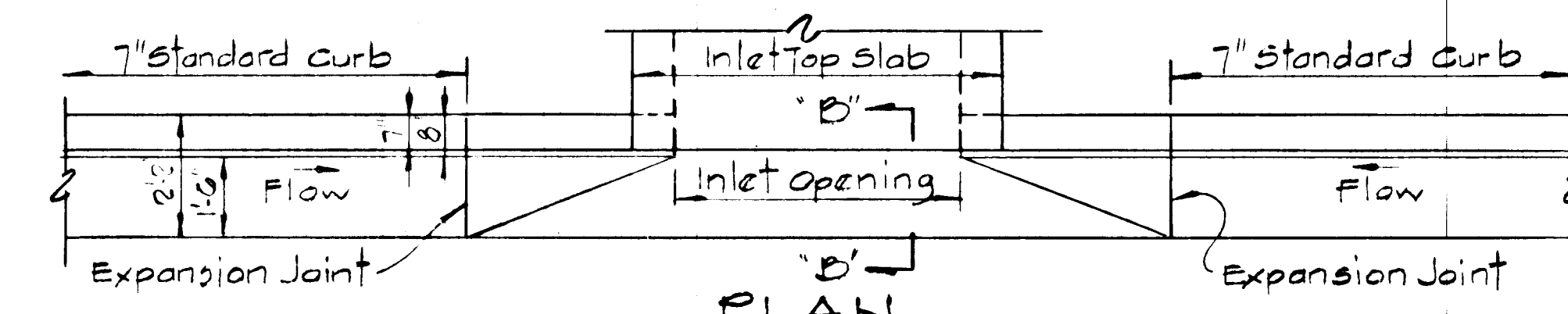
MODIFIED COMBINATION CURB & GUTTER
No Scale

OFFICE OF PLANNING AND ZONING

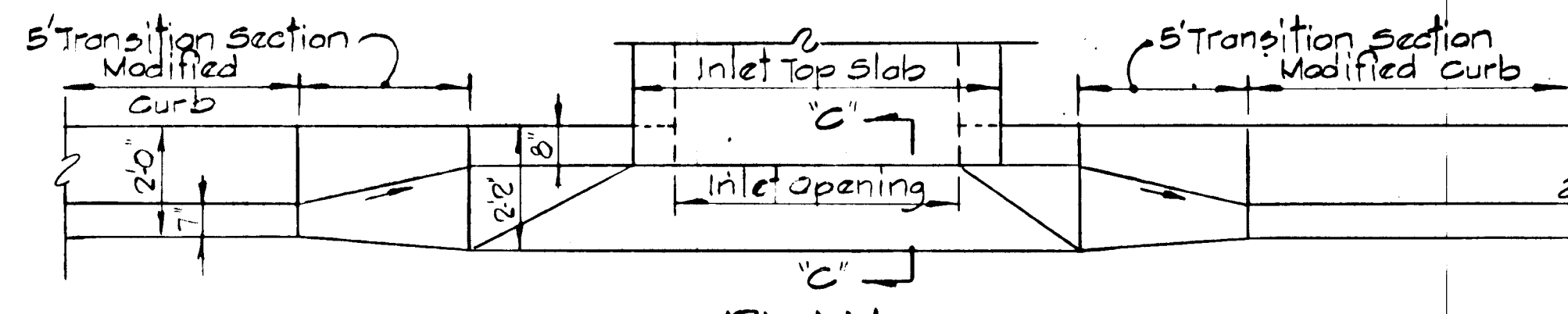
Howard South 5/11/88
CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

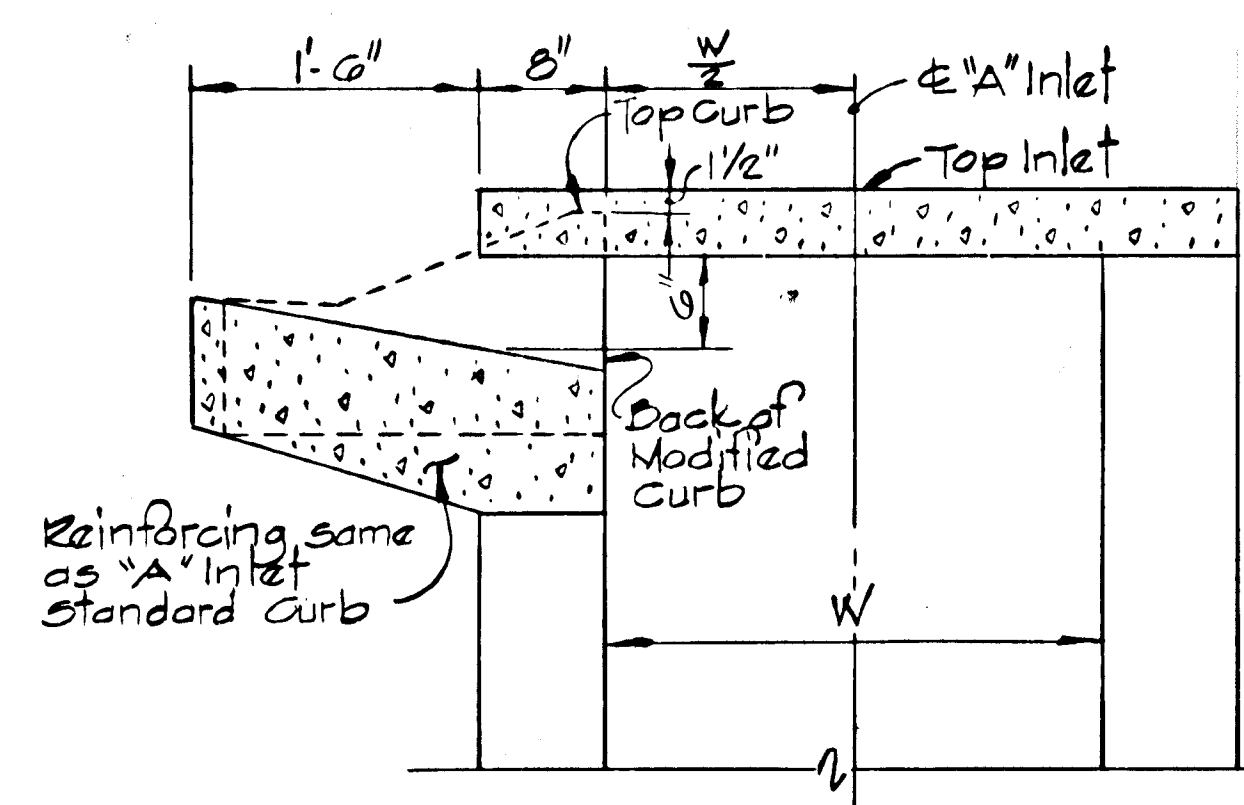
Dravelle W. Weiland 4/28/88
CHIEF, LAND DEVELOPMENT DIVISION DATE
CHIEF, BUREAU OF HIGHWAYS DATE
CHIEF, BUREAU OF ENGINEERING DATE



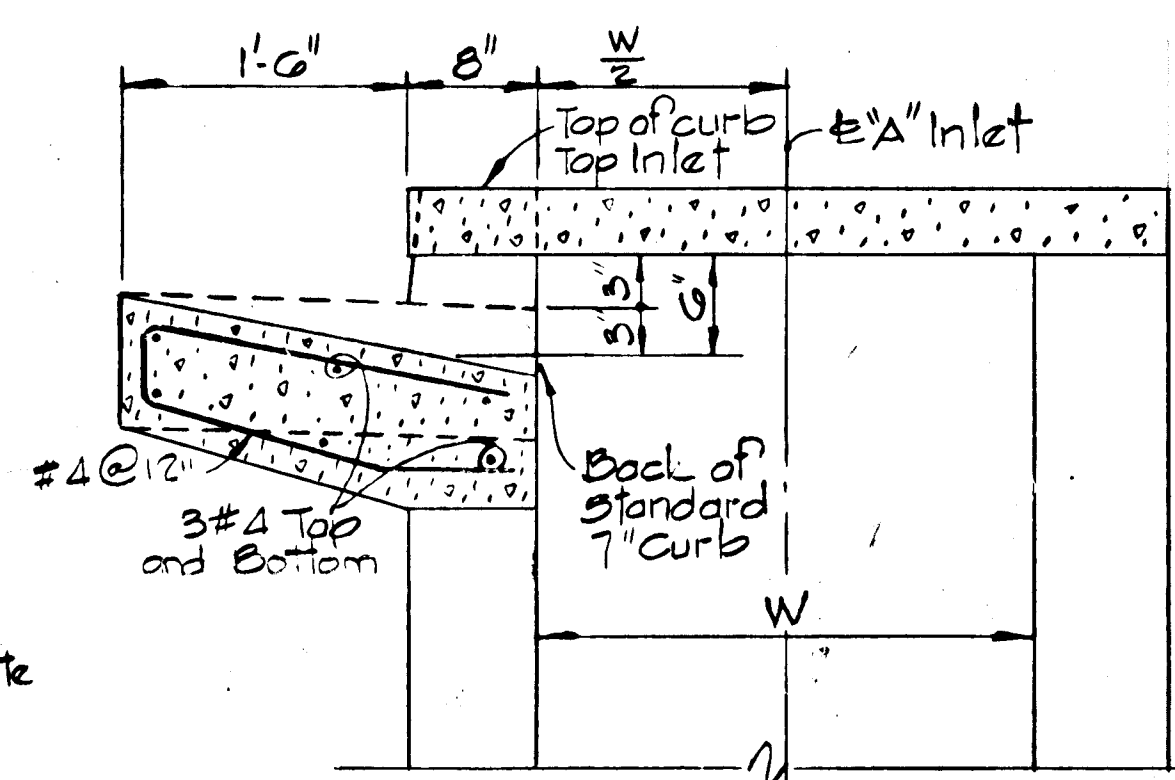
PLAN SECTION
SUMPED "A" INLETS - STANDARD CURB



PLAN SECTION
"A" INLETS - MODIFIED CURB



SECTION "C-C"
"A" INLET MODIFIED CURB



SECTION "B-B"
"A" INLET - STANDARD CURB

REV. DATE	REV. NO.	REVISION	DESCRIPTION
BURLEIGH MANOR 2nd ELECTION DISTRICT HOWARD COUNTY, MARYLAND			
DEVELOPER ROSE / RICHMOND JOINT VENTURE			
PROJECT AREA BURLEIGH MANOR SECTION 3 AREA 4			
PROJECT TITLE ROADWAY AND STORMDRAIN DETAILS			
SCALE: AS SHOWN		DATE: 11/6/87	
WHITMAN, REQUARDT AND ASSOCIATES ENGINEERS BALTIMORE, MARYLAND			
<i>Kenneth A. McCord</i> KENNETH A. MCCORD REGISTERED ENGINEER NO. 1974			

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

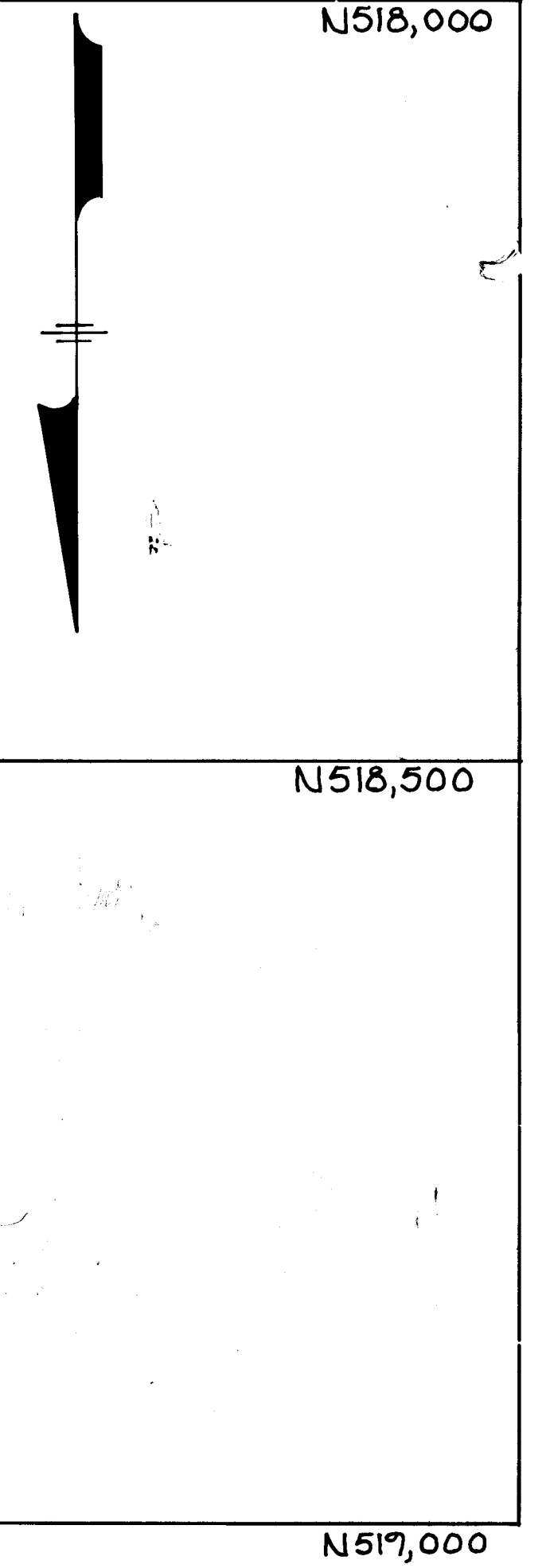
[Signature] 4/27/88
 CHIEF, LAND DEVELOPMENT DIVISION DATE

[Signature] 4/28/88
 CHIEF, BUREAU OF HIGHWAYS DATE

[Signature] 5-2-88
 CHIEF, BUREAU OF ENGINEERING DATE

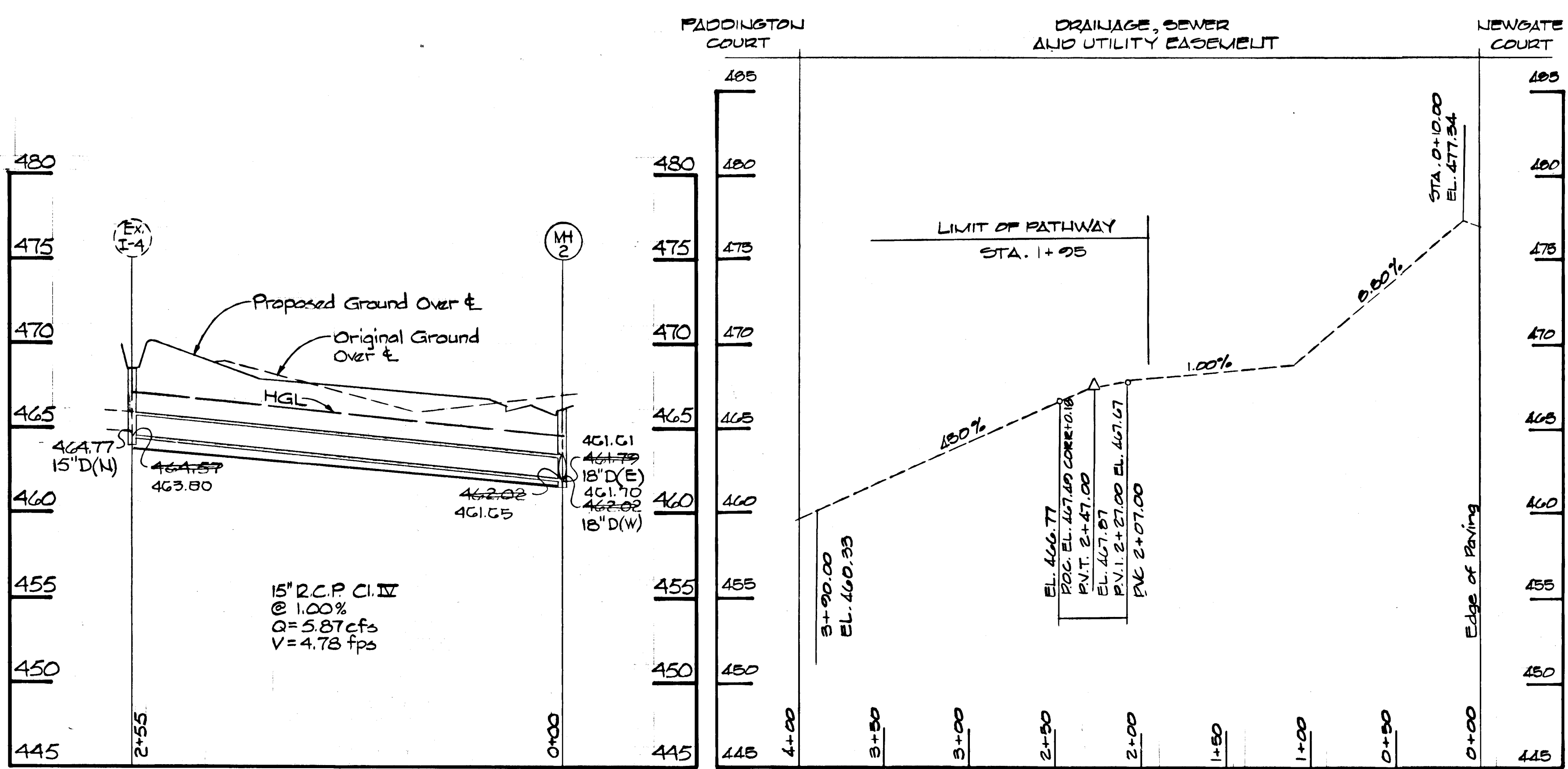
OFFICE OF PLANNING AND ZONING

[Signature] 5/11/88
 CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT DATE



REV DATE	REV. NO.	REVISION	DESCRIPTION
BURLEIGH MANOR			
2nd ELECTION DISTRICT			
HOWARD COUNTY, MARYLAND			
OWNER AND DEVELOPER			
RICHMOND AMERICAN			
PROJECT AREA			
BURLEIGH MANOR			
SECTION 3 AREA 4			
PROJECT TITLE			
DRAINAGE AREA MAP			
SCALE: 1" = 100'		DATE: 11/6/87	
WHITMAN, REQUARDT AND ASSOCIATES			
ENGINEERS			
BALTIMORE, MARYLAND			
<i>[Signature]</i> KENNETH A. MCCORD			
REGISTERED ENGINEER NO. 1974			

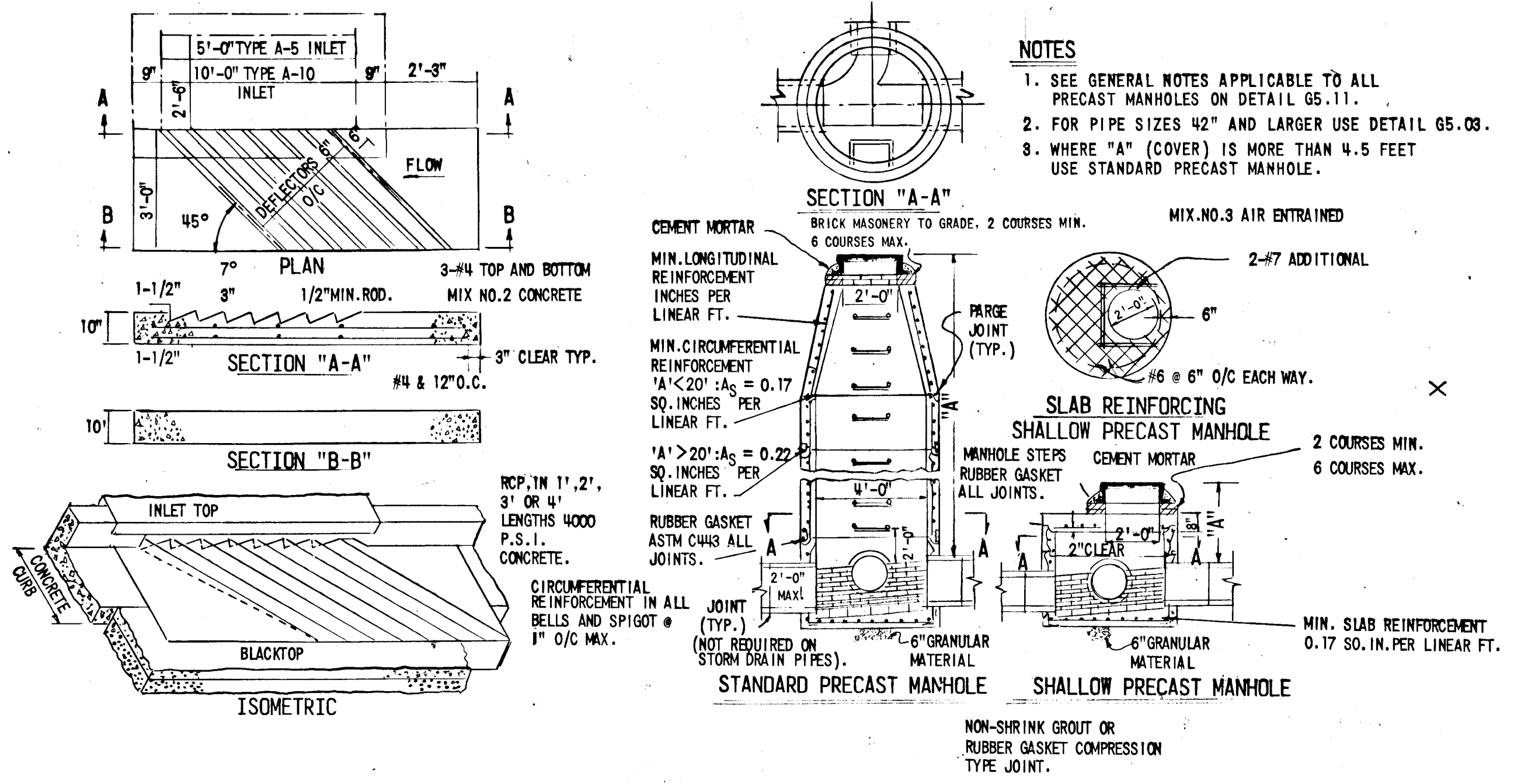
121



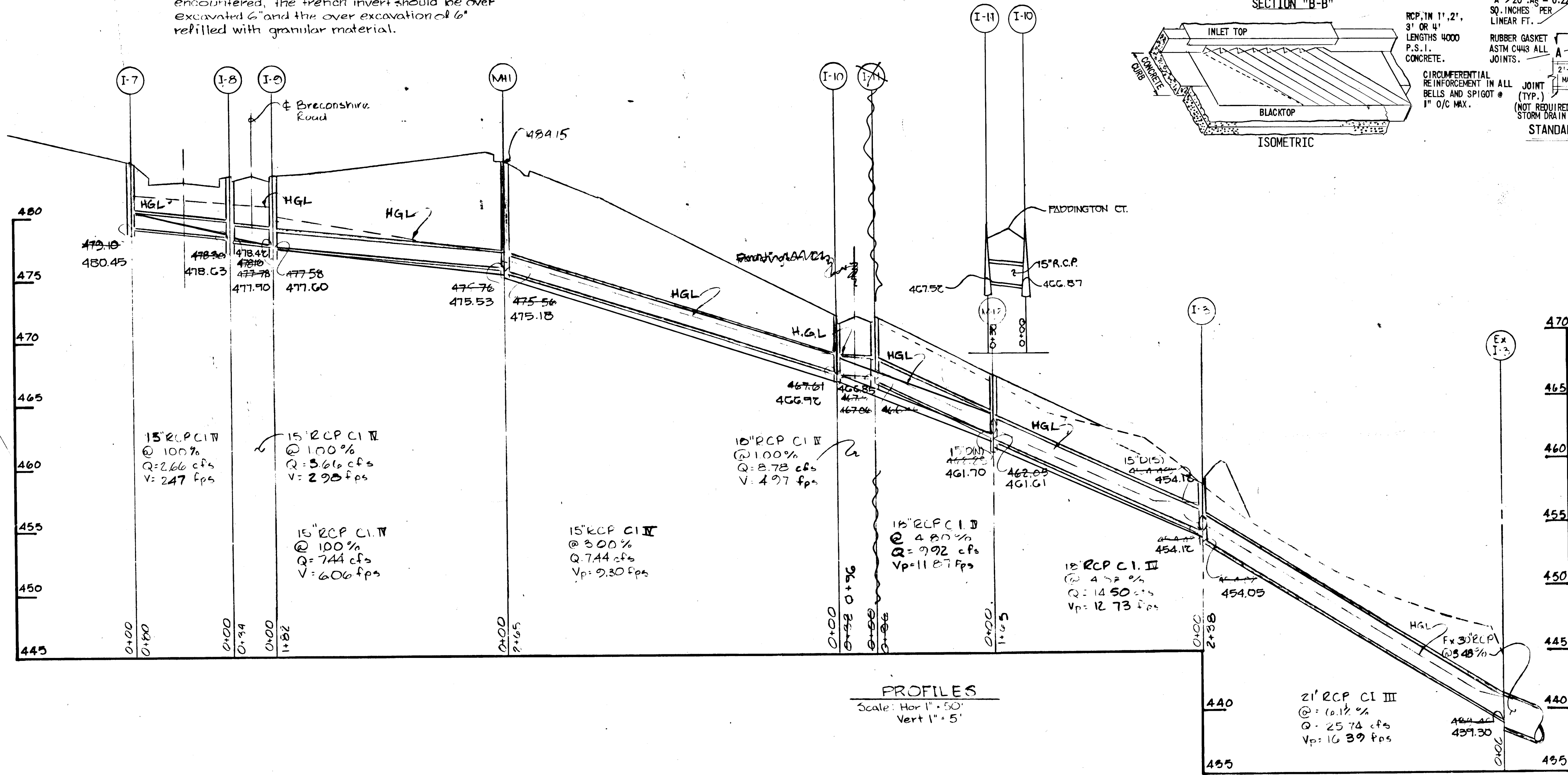
PATHWAY PROFILE
 Scale: Hor: 1"=50'
 Vert: 1"=5'

PROFILE
 Scale: Hor: 1"=50'
 Vert: 1"=5'

NOTE:
 The type of bedding used for storm drain pipe shall be Class C, shaped subgrade. If rock is encountered, the trench invert shall be over excavated 6" and the over excavation of 6" refilled with granular material.



- NOTES**
- SEE GENERAL NOTES APPLICABLE TO ALL PRECAST MANHOLES ON DETAIL 65.11.
 - FOR PIPE SIZES 42" AND LARGER USE DETAIL 65.08.
 - WHERE "A" (COVER) IS MORE THAN 4.5 FEET USE STANDARD PRECAST MANHOLE.



PROFILES
 Scale: Hor: 1"=50'
 Vert: 1"=5'

REV DATE	REV NO.	REVISION	DESCRIPTION
BURLEIGH MANOR			
2nd ELECTION DISTRICT HOWARD COUNTY, MARYLAND			
DEVELOPER ROSE/RICHMOND JOINT VENTURE			
PROJECT AREA BURLEIGH MANOR SECTION 3 AREA 4			
PROJECT TITLE STORM DRAIN PROFILES & DETAILS			
SCALE: AS SHOWN DATE: 11-6-87			
WHITMAN, REQUARDT AND ASSOCIATES ENGINEERS BALTIMORE, MARYLAND			

Kenneth A. McLeod
 REGISTERED ENGINEER NO. 1974



122

E 836,000

E 837,500

E 837,000

E 836,500

E 836,000

TRAP NO.	EXISTING DRAINAGE AREA (STRIPPING)	GRADED DRAINAGE AREA	TRAP DESIGNED FOR
2	9.1 Ac.	7.8 Ac.	9.1 Ac.
3	0.8 Ac.	0.8 Ac.	7.8 Ac.
4	6.7 Ac.	7.5 Ac.	7.5 Ac.

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

Joseph J. ... 4/28/88
 CHIEF, LAND DEVELOPMENT DIVISION DATE
Lawrence W. ... 4/28/88
 CHIEF, BUREAU OF HIGHWAYS DATE
William S. ... 5-2-88
 CHIEF, BUREAU OF ENGINEERING DATE
 OFFICE OF PLANNING AND ZONING
James ... 5/11/88
 CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT DATE

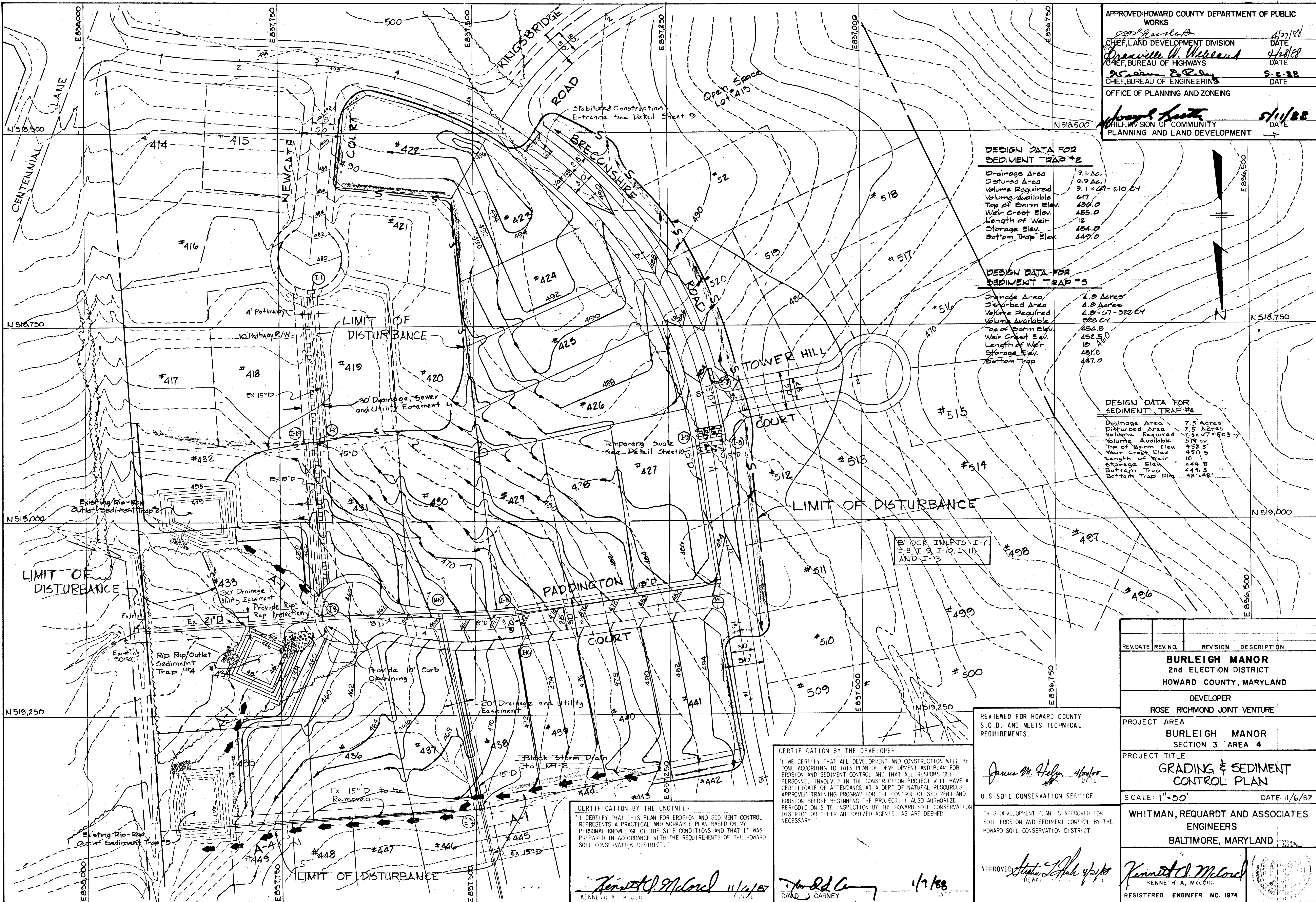
SEQUENCE OF CONSTRUCTION

- OBTAIN GRADING PERMIT.
- CLEAR AND GRUB FOR SEDIMENT AND EROSION CONTROL MEASURES OR DEVICES.
- INSTALL AND STABILIZE ALL SEDIMENT AND EROSION CONTROL MEASURES AND DEVICES.
- STRIP AND ROUGH GRADE LIMITS OF CONSTRUCTION.
- INSTALL INTERCEPTOR SWALE AT STATION 10+65 AND 10+90 OF BRECONSHIRE ROAD.
- SEED ALL SLOPES WITH TEMPORARY SEEDING, SEE SEEDING NOTES ON SHEET 9.
- CONSTRUCT ALL UTILITIES.
- CONSTRUCT PERMANENT STORM DRAINAGE SYSTEM. BLOCK ALL INLETS AND STORM DRAIN TO W-2.
- FINE GRADE PAVED AREAS CONSTRUCT CURB AND GUTTER AND PAVED AREAS.
- SEED DISTURBED AREAS WITHIN RIGHT OF WAY SEE PERMANENT SEEDING NOTES ON SHEET 9.
- STABILIZE SITE AS PER TEMPORARY SEEDING SPECIFICATIONS SEE NOTES ON SHEET 9.
- SEDIMENT TRAP #2 MUST REMAIN IN PLACE UNTIL BOTH SECTION 3, AREA 3 AND 4 ARE STABILIZED.
- SEDIMENT TRAP #3 MUST REMAIN IN PLACE AND FLOW FROM I-4 MUST BE ROUTED TO SEDIMENT TRAP #3 UNTIL DRAINAGE AREA IS STABILIZED.
- REMOVE TEMPORARY SEDIMENT CONTROL MEASURES AND STABILIZE ANY REMAINING.



STORMWATER MANAGEMENT FOR THIS PROJECT HAS BEEN PROVIDED IN BURLEIGH MANOR SECTION 1, AREA 1, F-79-93

REV. DATE	REV. NO.	REVISION	DESCRIPTION
BURLEIGH MANOR 2nd ELECTION DISTRICT HOWARD COUNTY, MARYLAND			
DEVELOPER ROSE / RICHMOND JOINT VENTURE			
PROJECT AREA BURLEIGH MANOR SECTION 3 AREA 4			
PROJECT TITLE DRAINAGE AREA MAP FOR SEDIMENT CONTROL			
SCALE 1" = 100'		DATE 11-6-87	
WHITMAN, REQUARDT AND ASSOCIATES ENGINEERS BALTIMORE, MARYLAND			
<i>Kenneth A. McCord</i> KENNETH A. MCCORD REGISTERED ENGINEER NO. 1974			



APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
 CHIEF, LAND DEVELOPMENT DIVISION DATE 4/27/88
Oranville W. Weiland 4/28/88
 CHIEF, BUREAU OF HIGHWAYS DATE
J. C. Ryan 5-2-88
 CHIEF, BUREAU OF ENGINEERING DATE
 OFFICE OF PLANNING AND ZONING
 CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT DATE 5/1/88

DESIGN DATA FOR SEDIMENT TRAP #2

Drainage Area	9.1 Ac.
Disturbed Area	6.9 Ac.
Volume Required	9.1 x 67 = 610 CY
Volume Available	617
Top of Berm Elev.	484.0
Weir Crest Elev.	485.0
Length of Weir	12
Storage Elev.	484.0
Bottom Trap Elev.	449.0

DESIGN DATA FOR SEDIMENT TRAP #3

Drainage Area	4.8 Acres
Disturbed Area	4.8 Acres
Volume Required	4.8 x 67 = 322 CY
Volume Available	328 CY
Top of Berm Elev.	454.5
Weir Crest Elev.	452.5
Length of Weir	10
Storage Elev.	451.5
Bottom Trap	447.0

DESIGN DATA FOR SEDIMENT TRAP #4

Drainage Area	7.5 Acres
Disturbed Area	7.5 Acres
Volume Required	7.5 x 67 = 503 CY
Volume Available	519 CY
Top of Berm Elev.	452.5
Weir Crest Elev.	450.5
Length of Weir	10
Storage Elev.	449.5
Bottom Trap	444.5
Bottom Trap Dim.	42' x 42'

BLOCK INLETS I-7
 I-8 I-9 I-10, I-11,
 AND I-13

REV. DATE	REV. NO.	REVISION	DESCRIPTION
BURLEIGH MANOR 2nd ELECTION DISTRICT HOWARD COUNTY, MARYLAND			
DEVELOPER ROSE RICHMOND JOINT VENTURE			
PROJECT AREA BURLEIGH MANOR SECTION 3 AREA 4			
PROJECT TITLE GRADING & SEDIMENT CONTROL PLAN			
SCALE: 1" = 50'		DATE: 11/6/87	
WHITMAN, REQUARDT AND ASSOCIATES ENGINEERS BALTIMORE, MARYLAND			
APPROVED: <i>Kenneth A. McCorr</i> KENNETH A. MCCORR REGISTERED ENGINEER NO. 1974		APPROVED: <i>David L. Carney</i> DAVID L. CARNEY	

CERTIFICATION BY THE DEVELOPER
 "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 DEPT. 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."

James M. Helfy 4/28/88
 U.S. SOIL CONSERVATION SERVICE

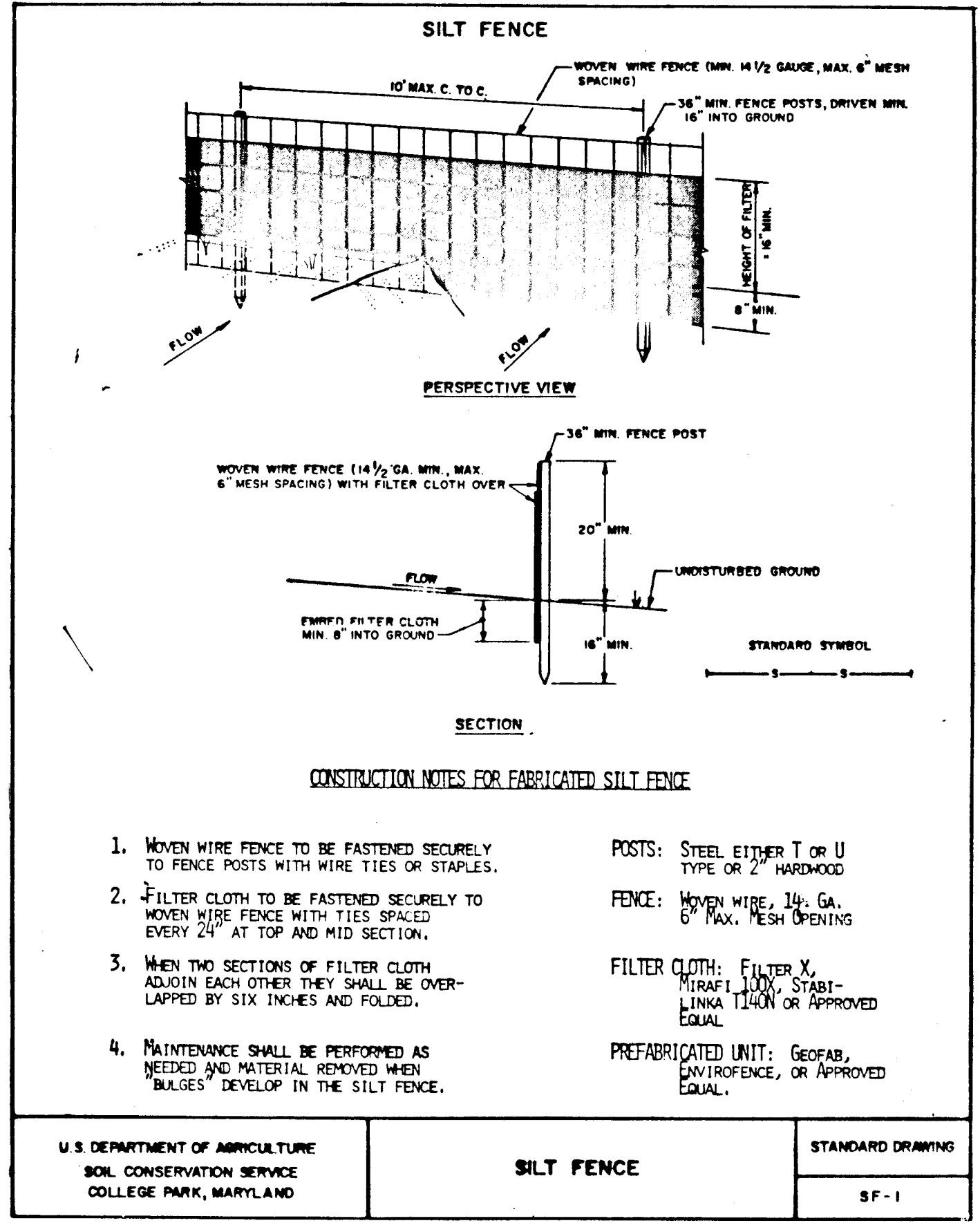
CERTIFICATION BY THE ENGINEER
 "I CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT."

Kenneth A. McCorr 11/6/87
 KENNETH A. MCCORR

REVIEWED FOR HOWARD COUNTY S.C.D. AND MEETS TECHNICAL REQUIREMENTS.
 APPROVED: *Stephen J. Hahn* 4/28/88
 HOWARD COUNTY

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

72127



PERMANENT SEEDING NOTES

Apply to graded or cleared areas not subject to immediate further disturbance where a permanent long-lived vegetative cover is needed.

Seedbed Preparation: Loosen upper three inches of soil by raking, discing or other acceptable means before seeding.

Soil Amendments: In lieu of soil test recommendations, use one of the following schedules

- 1) Preferred - Apply 2 tons per acre dolomitic limestone (92 lbs/1000 square 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 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 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 periods March 1 thru April 30, and August 1 thru October 15, seed with 60 lbs per acre (1.4 lbs/1000 sq ft) of Kentucky 31 Tall Fescue. For the period May 1 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 feet or higher, use 348 gallons per acre (8 gal/1000 sq ft) for anchoring.

Maintenance - Inspect all seeded areas and make needed repairs, replacements and reseedings.

TEMPORARY SEEDING NOTES

Apply to graded or cleared areas likely to be redisturbed where a short-term vegetative cover is needed.

Seedbed Preparation: Loosen upper three inches of soil by raking, discing or other acceptable means before seeding.

Soil Amendments: Apply 600 lbs per acre 10-10-10 fertilizer (14 lbs/1000 sq ft)

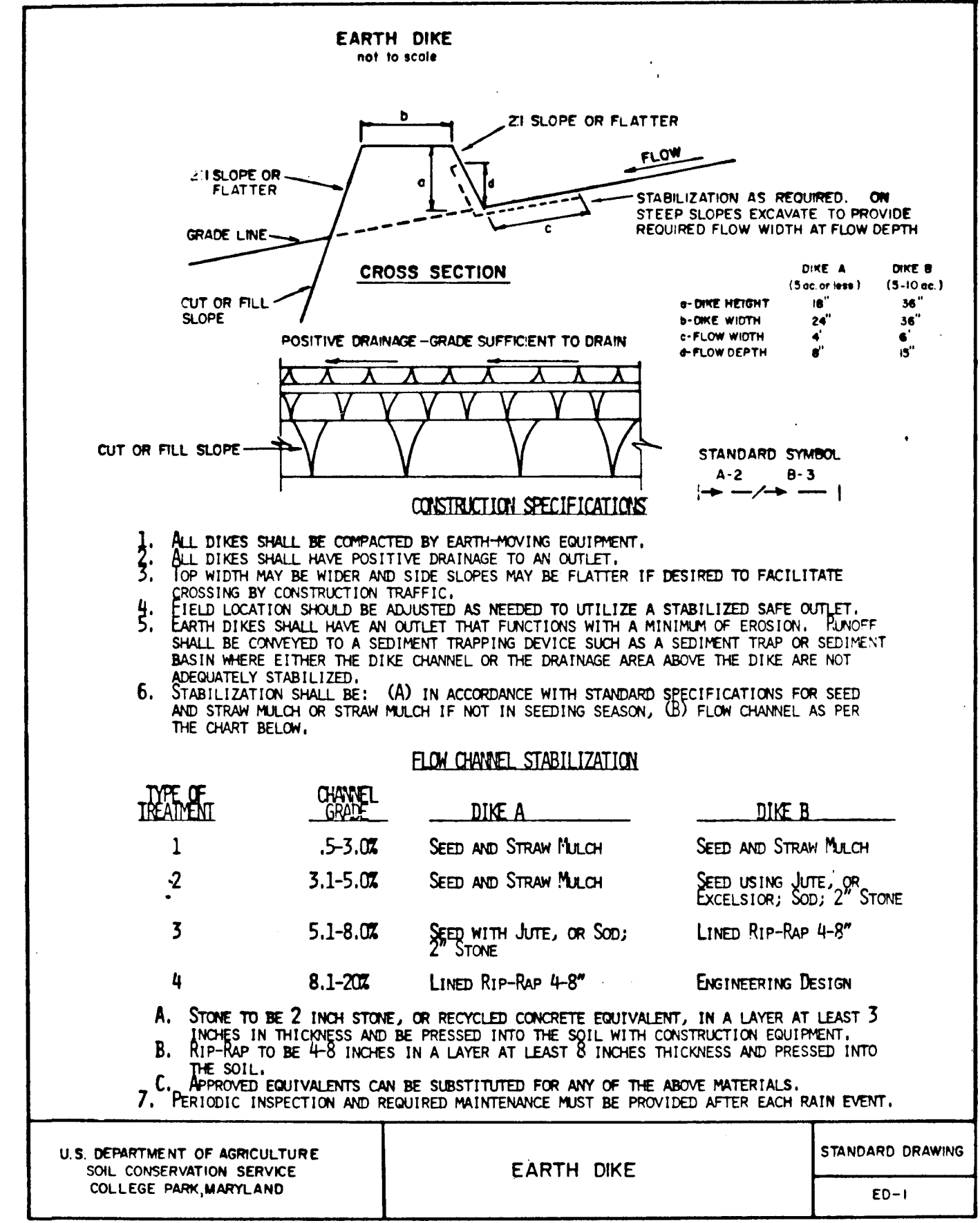
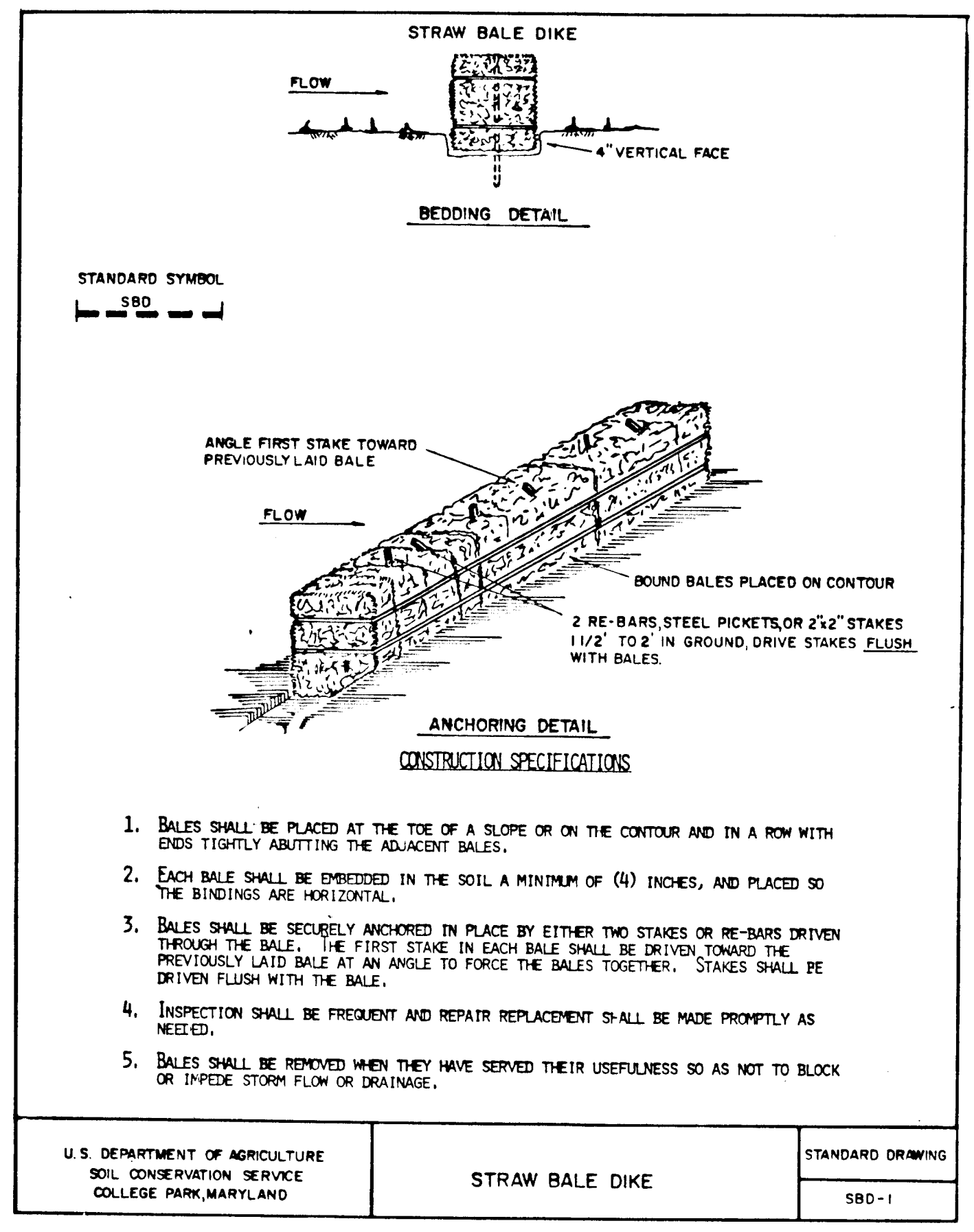
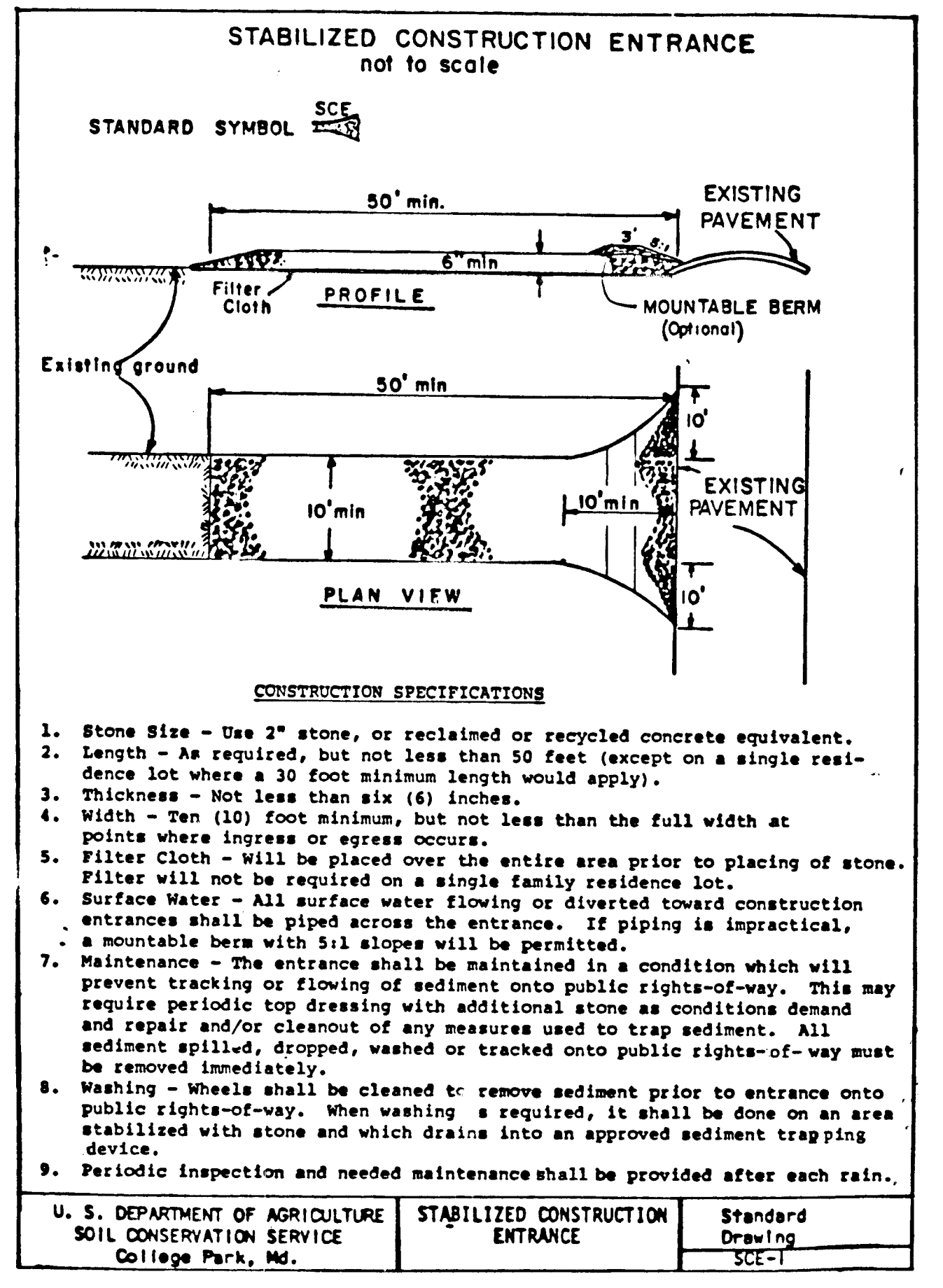
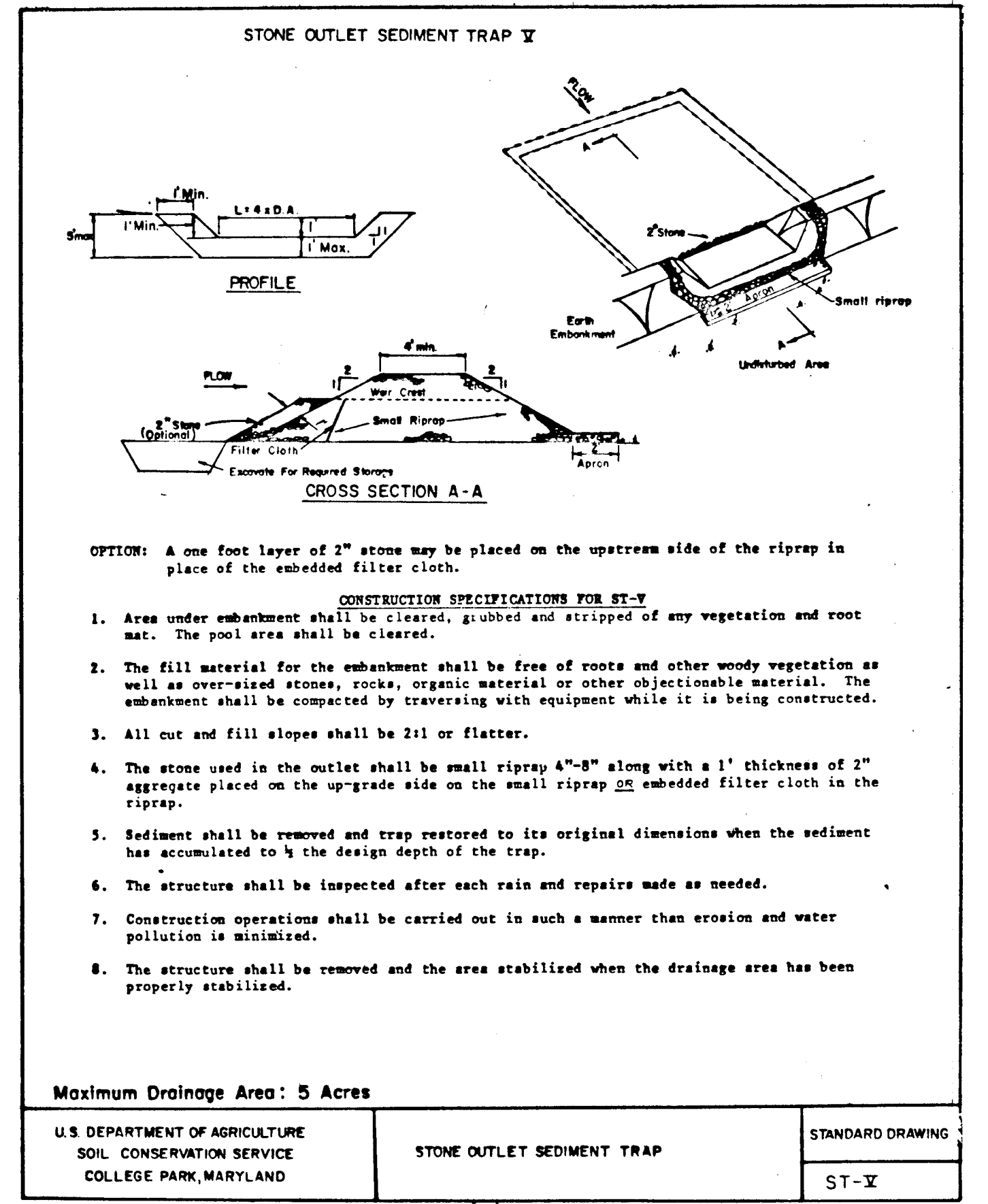
Seeding: For periods March 1 thru April 30 and from August 15 thru November 15, seed with 24 bushel per acre of annual ryegrass (3.2 lbs/1000 sq ft). For the period May 1 thru August 14, seed with 3 lbs per acre of weeping lovegrass (.07 lbs/1000 sq ft). For the period November 16 thru February 28, protect 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 mulch 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/1000 sq ft) for anchoring.

Refer to the 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL for rate and methods not covered.

SEDIMENT CONTROL NOTES

- 1) A minimum of 24 hours notice must be given to the Howard County Office of Inspection and Permits prior 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 SEDIMENT CONTROL.
- 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, Chapter 12, of the HOWARD COUNTY DESIGN MANUAL, Storm Drainage.
- 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 11.1 Acres
Area Disturbed 10.0 ± Acres
Area to be roofed or paved 2.2 ± Acres
Area to be vegetatively stabilized 7.7 ± Acres
Total Cut 15,800 Cu. yds.
Total Fill 8,820 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.
- 9) Additional sediment controls must be provided, if deemed necessary by the Howard County DPW sediment control inspector.
- 10) 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.



OFFICE OF PLANNING AND ZONING
CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT

5/11/88

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

CHIEF, LAND DEVELOPMENT DIVISION DATE 4/27/88

CHIEF, BUREAU OF HIGHWAY DATE 4/28/88

CHIEF, BUREAU OF ENGINEERING DATE 5-2-88

CERTIFICATION BY THE DEVELOPER

I 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 DEPT. 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.

U.S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
COLLEGE PARK, MARYLAND

EARTH DIKE

STANDARD DRAWING
ED-1

REVIEWED FOR HOWARD COUNTY S.C.D. AND MEETS TECHNICAL REQUIREMENTS.

James M. Halpin 4/21/88

U.S. SOIL CONSERVATION SERVICE

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

APPROVED: Kenneth A. McCord 4/21/88

HOWARD S.C.D.

REV. DATE	REV. NO.	REVISION	DESCRIPTION

BURLEIGH MANOR
2nd ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

DEVELOPER
ROSE / RICHMOND JOINT VENTURE

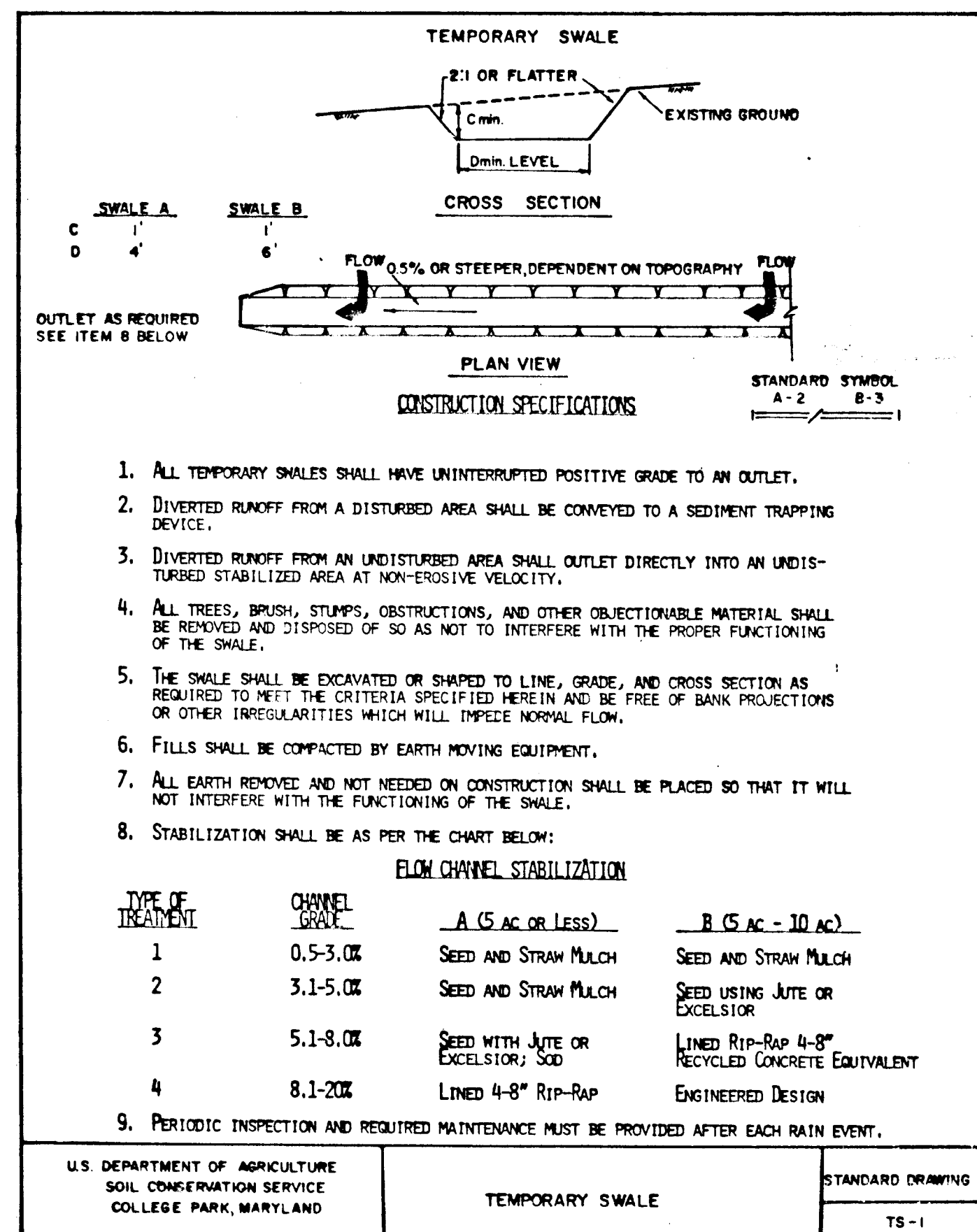
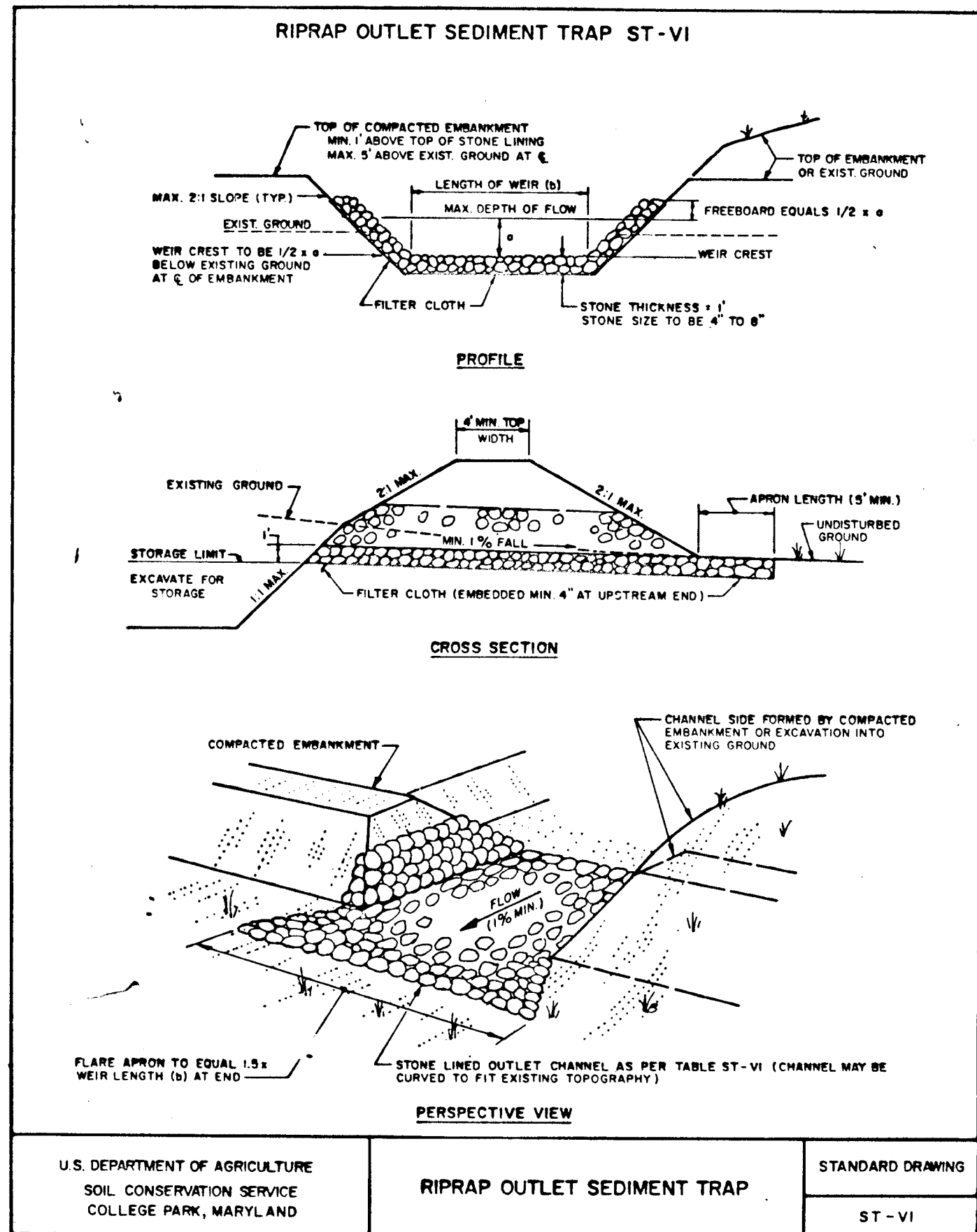
PROJECT AREA
BURLEIGH MANOR
SECTION 3 AREA 4

PROJECT TITLE
SEDIMENT CONTROL
DETAILS

SCALE: NO SCALE DATE: 11/16/87

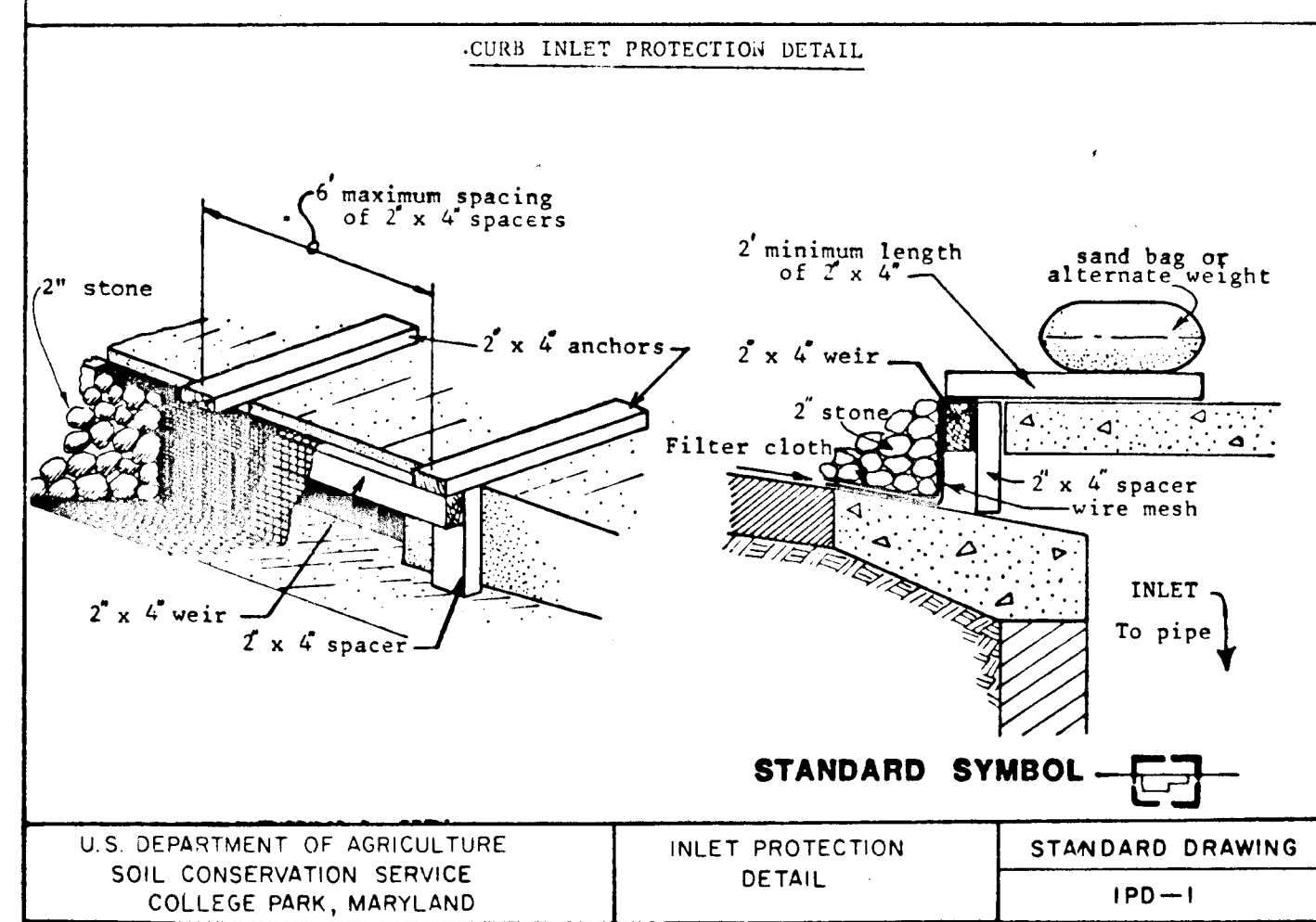
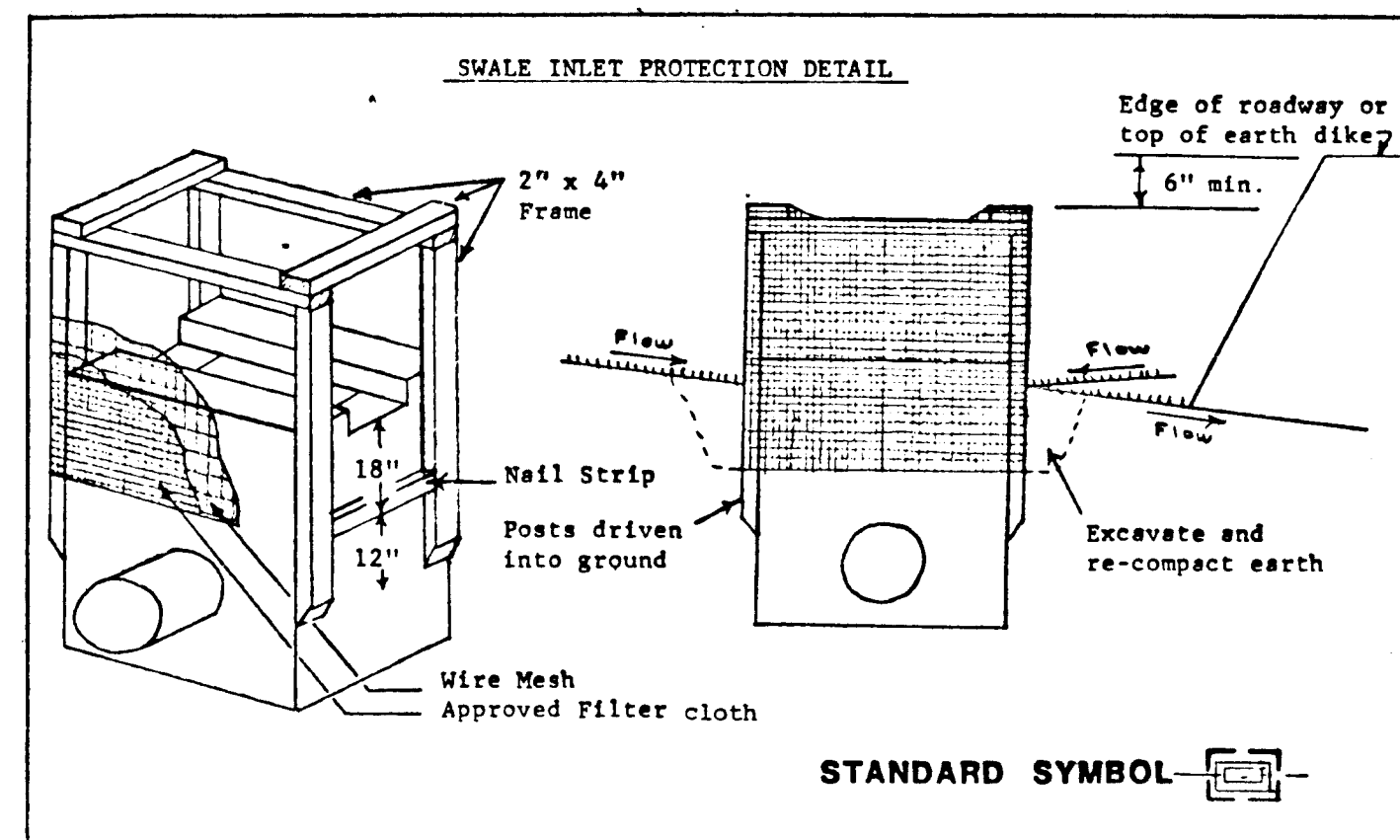
WHITMAN, REQUARDT AND ASSOCIATES
ENGINEERS
BALTIMORE, MARYLAND

APPROVED: Kenneth A. McCord
KENNETH A. MCCORD
REGISTERED ENGINEER NO. 1974



CONSTRUCTION SPECIFICATIONS FOR ST-VI

1. The area under embankment shall be cleared, grubbed and stripped of any vegetation and root mat. The pool area shall be cleared.
2. The fill material for the embankment shall be free of roots or other woody vegetation as well as over-sized stones, rocks, organic material or other objectionable material. The embankment shall be compacted by traversing with equipment while it is being constructed. Maximum height of embankment shall be five (5) feet, measured at centerline of embankment.
3. All fill slopes shall be 2:1 or flatter; cut slopes 1:1 or flatter.
4. Elevation of the top of any dike directing water into trap must equal or exceed the height of embankment.
5. Storage area provided shall be figured by computing the volume available behind the outlet channel up to an elevation of one (1) foot below the level weir crest.
6. Filter cloth shall be placed over the bottom and sides of the outlet channel prior to placement of stone. Sections of fabric must overlap at least one (1) foot with section nearest the entrance placed on top. Fabric shall be embedded at least six (6) inches into existing ground at entrance of outlet channel.
7. Stone used in the outlet channel shall be four (4) to eight(8) inches (riprap). To provide a filtering effect, a layer of filter cloth shall be embedded one (1) foot back into the upstream face of the outlet stone or a one (1) foot thick layer of two (2) inch or finer aggregate shall be placed on the upstream face of the outlet.
8. Sediment shall be removed and trap restored to its original dimensions when the sediment has accumulated to 1/2 the design depth of the trap. Removed sediment shall be deposited in a suitable area and in such a manner that it will not erode.
9. The structure shall be inspected after each rain and repaired as needed.
10. Construction operations shall be carried out in such a manner that erosion and water pollution are minimized.
11. The structure shall be removed and the area stabilized when the drainage area has been properly stabilized.
12. Drainage area for this practice is limited to 15 acres or less.



APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

[Signature] 4/27/88
CHIEF, LAND DEVELOPMENT DIVISION DATE

[Signature] 4/28/88
CHIEF, BUREAU OF HIGHWAY DATE

[Signature] 5-2-88
CHIEF, BUREAU OF ENGINEERING DATE

CERTIFICATION BY THE ENGINEER

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[Signature] 11/6/87
REGISTERED ENGINEER NO. 1974

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[Signature] 11/7/87

REVIEWED FOR HOWARD COUNTY S.C.D. AND MEETS TECHNICAL REQUIREMENTS.

[Signature] 4/2/88
U.S. SOIL CONSERVATION SERVICE

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

REV. DATE	REV. NO.	REVISION	DESCRIPTION
BURLEIGH MANOR 2nd ELECTION DISTRICT HOWARD COUNTY, MARYLAND			
DEVELOPER ROSE / RICHMOND JOINT VENTURE			
PROJECT AREA BURLEIGH MANOR SECTION 3 AREA 4			
PROJECT TITLE SEDIMENT CONTROL DETAILS			
SCALE: NO SCALE		DATE: 11/2/87	
WHITMAN, REQUARDT AND ASSOCIATES ENGINEERS BALTIMORE, MARYLAND			
APPROVED: <i>[Signature]</i> 4/2/88		<i>[Signature]</i>	
REGISTERED ENGINEER NO. 1974		REGISTERED ENGINEER NO. 1974	

OFFICE OF PLANNING AND ZONING
CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT

[Signature] 5/11/88