

SEE SHEET 2 FOR GENERAL NOTES AND TREE SCHEDULE

**± CURVE DATA-DERBY DRIVE**

PC=6+82.91 TO PT=13+99.47  
 R=1700.00'  
 ARC=716.56'  
 Δ=24°09'01"  
 CHR=N 24°22'23"E, 711.26'

PC=16+31.51 TO PT=21+85.58  
 R=1700.00'  
 ARC=554.06'  
 Δ=18°40'26"  
 CHR=N 27°06'50"E, 551.62'

7-21-92 ADDED I 101 & ST DRAIN A HK  
 3-6-92 REPLACE ASPHALT TRAIL WITH BOLLARD MK  
 DATE REVISION BY

APPROVED: DEPARTMENT OF PUBLIC WORKS

*Paul J. Seaman* 7/10/88  
 CHIEF, LAND DEVELOPMENT DIVISION DATE

*Bradley W. Weiland* 7/21/88  
 CHIEF, BUREAU OF HIGHWAYS DATE

*William B. Quinn* 7-23-88  
 CHIEF BUREAU OF ENGINEERING DATE

APPROVED: HOWARD COUNTY OFFICE OF PLANNING & ZONING

*Janice S. McLaughlin* 7-25-88  
 CHIEF DIVISION OF COMMUNITY PLANNING & LAND DEVELOPMENT DATE

**GIW GUTSCHICK LITTLE & WEBER, P.A.**  
 ENGINEERS, PLANNERS, SURVEYORS  
 3909 NATIONAL DRIVE - SUITE 230 - BURTONSVILLE OFFICE PARK - BURTONSVILLE, MD. 20866  
 TEL: (301) 421-4024

DESIGNED: A.S.C. ROAD CONSTRUCTION PLANS  
 DRAWN: R.R.S. DERBY DRIVE  
 CHECKED: C.K.G. HUNTERS CREEK FARM  
 DATE: MARCH 1988

SCALE: AS SHOWN  
 DRAWING: 1 OF 6  
 JOB NO: 86-027

FOR: CAPITAL HOMES, INC.  
 10200 BORMAN ROAD  
 LAUREL, MARYLAND 20707

**DEVELOPER'S/BUILDER'S CERTIFICATE**

"I/We certify that all development and construction will be done according to this plan, and that any responsible personnel involved in the construction project will have a Certificate of Attendance at a Department of Natural Resources Approved Training Program for the Control of Sediment and Erosion before beginning the project."

*William B. Quinn* 3-29-88  
 Signature of Developer/Builder Date

**ENGINEER'S CERTIFICATE**

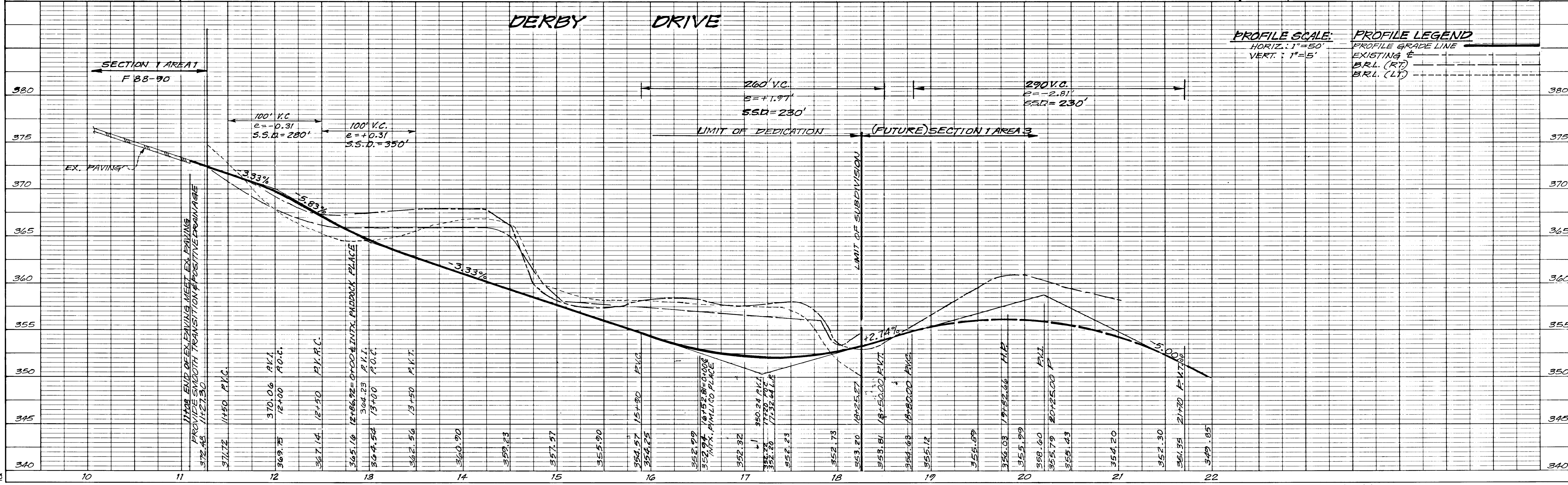
"I certify that this plan for erosion and sediment control represents a practical and workable plan based on my personal knowledge of the site and that it was prepared in accordance with the requirements of the Howard Soil Conservation District."

*C.K. Gutschick* 3-28-88  
 Signature of Engineer Date

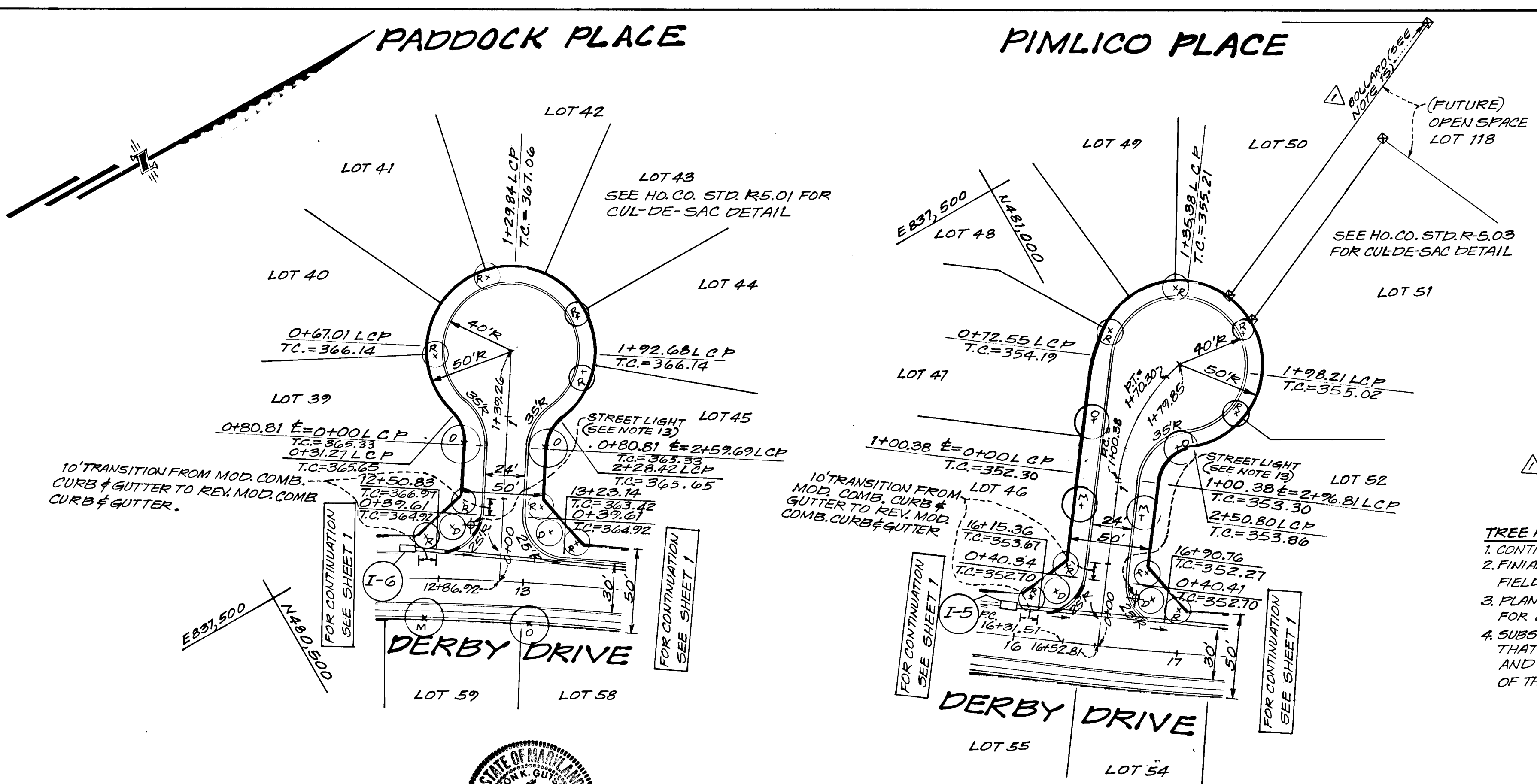
Reviewed for Name: S.C.D. and meets Technical Requirements.  
 U.S. Soil Conservation Service Date: Howard S.C.D. Date:



**PLAN**  
 SCALE: 1"=50'



1357



**GENERAL NOTES:**

1. ALL STORM DRAIN & PAVING SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE LATEST DETAILS & SPECIFICATIONS OF HOWARD COUNTY & MD. S.H.A.
2. TYPES OF STORM DRAIN STRUCTURES REFER TO THE STANDARD DETAILS OF HOWARD COUNTY & MD. S.H.A.
3. TRENCH COMPACTION FOR STORM DRAINS, WITHIN ROAD OR STREET RIGHT-OF-WAY LIMITS SHALL BE IN ACCORDANCE WITH HOWARD COUNTY DESIGN MANUAL VOL.III (CLASS C TRENCH BEDDING TO BE USED FOR ALL STORM DRAIN, UNLESS SHOWN OTHERWISE, SEE DETAIL SHT. 4.)
4. INFORMATION CONCERNING UNDERGROUND UTILITIES WAS OBTAINED FROM AVAILABLE RECORDS, BUT THE CONTRACTOR MUST DETERMINE THE EXACT LOCATION AND ELEVATION OF THE MAINS BY DIGGING TEST PITS, BY HAND, AT ALL UTILITY CROSSINGS, WELL IN ADVANCE OF CONSTRUCTION.
5. ALL UTILITY COMPANIES SHALL BE NOTIFIED 24HRS. IN ADVANCE OF CONSTRUCTION.
6. ALL TRAFFIC CONTROL DEVICES, PARKING & SIGNING TO BE DONE IN ACCORDANCE WITH THE "MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES" 1984 REVISED EDITION.
7. SAG & CREST VERTICAL CURVES WERE DESIGNED IN ACCORDANCE WITH HOWARD CO. DESIGN MANUAL VOL.III.
8. PROVIDE CONCRETE SIDEWALK RAMPS, HOWARD CO. STD. TYPE "A", R=4.01 WHERE SHOWN IN PLAN.
9. DESIGN SPEED: SEE CHART SHT. 4.
10. ZONING: R-20
11. CONTRACTOR OR DEVELOPER SHALL CONTACT THE CONSTRUCTION INSPECTION/SURVEY DIVISION 24HRS. BEFORE COMMENCING WORK AT 792-7272.
12. FOR TREE SCHEDULE SEE SHT. 2
13. STREET LIGHTS SHALL BE PROVIDED AT THE LOCATIONS SHOWN IN THE SCHEDULE ON SHT. 2 & IN ACCORDANCE WITH VOL.III OF THE HOWARD CO. DESIGN MANUAL.
14. STORMWATER MANAGEMENT IS PROVIDED BY A FACILITY IN HUNTERS CREEK FARM SECTION 1 AREA 1 F-88-90.
15. BOLLARDS TO BE PLACED IN ACCORDANCE WITH HOWARD COUNTY PARKS PLANNING DETAIL 'OPEN SPACE BOLLARDS'

**ε CURVE DATA-PIMLICO PLACE**  
 P.C.=1+00.38 TO P.T.=1+70.30  
 R=106.37'  
 ARC=69.92'  
 Δ=37°39'45"  
 CH2=N35°26'08"W 68.67'

**TREE PLANTING NOTES:**

1. CONTRACTOR SHALL VERIFY LOCATION OF UNDERGROUND UTILITIES PRIOR TO DIGGING.
2. FINAL LOCATION OF TREES MAY BE ADJUSTED SLIGHTLY TO ACCOMMODATE FIELD CONDITIONS.
3. PLANTING PROCEDURES SHALL COMPLY WITH "LANDSCAPE SPECIFICATIONS FOR BALTIMORE-WASHINGTON METROPOLITAN AREAS."
4. SUBSTITUTIONS TO THE AREA SPECIES MAY BE PERMITTED PROVIDED THAT THE PLANTING IS IN ACCORDANCE WITH THE STREET TREE AND LANDSCAPE REQUIREMENTS AS SPECIFIED IN SECTION 16.131 OF THE HOWARD COUNTY SUBDIVISION REGULATIONS.

APPROVED: DEPARTMENT OF PUBLIC WORKS  
*[Signature]* 7/13/88  
 CHIEF, LAND DEVELOPMENT DIVISION DATE  
*[Signature]* 7/21/88  
 CHIEF, BUREAU OF HIGHWAYS DATE  
 7-22-88  
 CHIEF, BUREAU OF ENGINEERING DATE  
 APPROVED: HOWARD COUNTY OFFICE OF PLANNING & ZONING  
*[Signature]* 7-25-88  
 CHIEF, DIVISION OF COMMUNITY PLANNING & LAND DEVELOPMENT DATE

**GW GUTSCHICK LITTLE & WEBER, P.A.**  
 ENGINEERS, PLANNERS, SURVEYORS  
 3909 NATIONAL DRIVE - SUITE 250 - BURTONSVILLE OFFICE PARK - BURTONSVILLE, MD. 20866  
 TEL.: (301) 421-4024

**TREE SCHEDULE**

KEY PLANT NAME	SIZE	QUANT.	REMARKS
(M) ACER RUBRUM SUNSET	2 1/2" CAL. MIN.	26	B&B HEAVYHEADS
(M) SUNSET MAPLE		27	
(Q) QUERCUS RUBRA		2	
(N) NORTHERN RED OAK		6	
(D) QUINUS FLORIDA			
(W) WHITE DOGWOOD			
(R) CERIS CANADENSIS		22	
(A) AMERICAN REDBUD			

DESIGNED AS.C.  
 DRAWN R.R.S.  
 CHECKED C.K.G.  
 DATE MARCH 1988

**ROAD CONSTRUCTION PLANS PADDOCK PLACE AND PIMLICO PLACE HUNTERS CREEK FARM**

SECTION ONE AREA TWO  
 6<sup>TH</sup> ELECTION DISTRICT  
 HOWARD COUNTY, MARYLAND

FOR: CAPITAL HOMES, INC.  
 10200 GORMAN ROAD  
 LAUREL, MARYLAND 20707

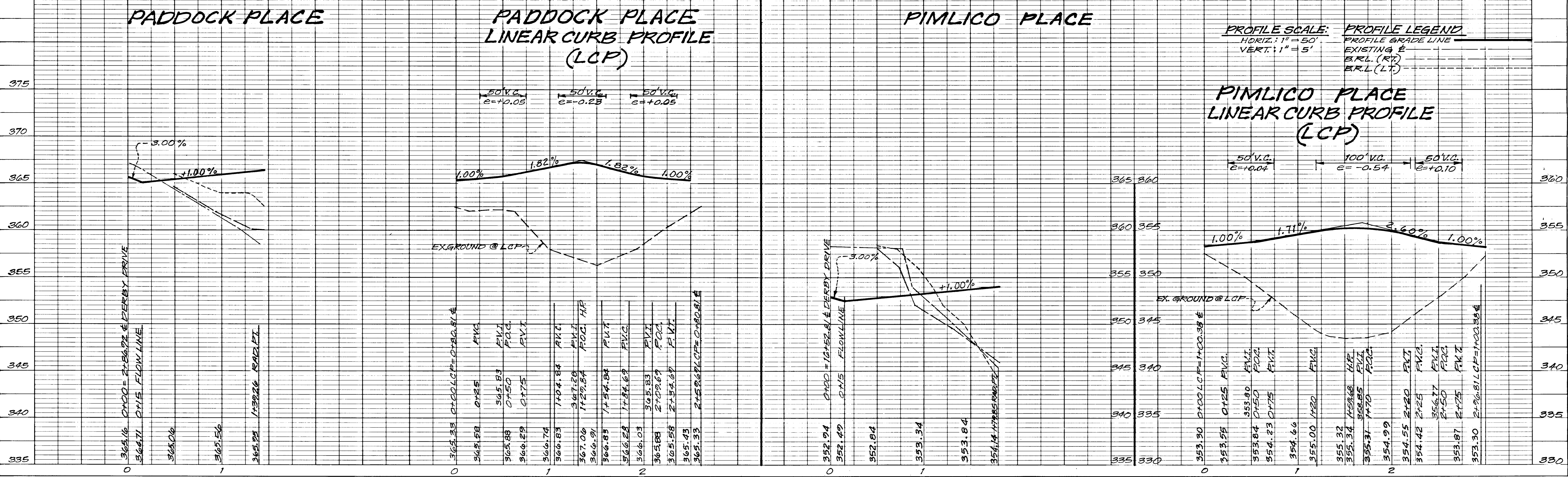
SCALE AS SHOWN  
 DRAWING 2 OF 6  
 JOB NO. 86-027

**CURB & GUTTER LEGEND**  
 — MOD. COMB. C&G  
 — REV. MOD. COMB. C&G



**PLAN**  
 SCALE: 1"=50'

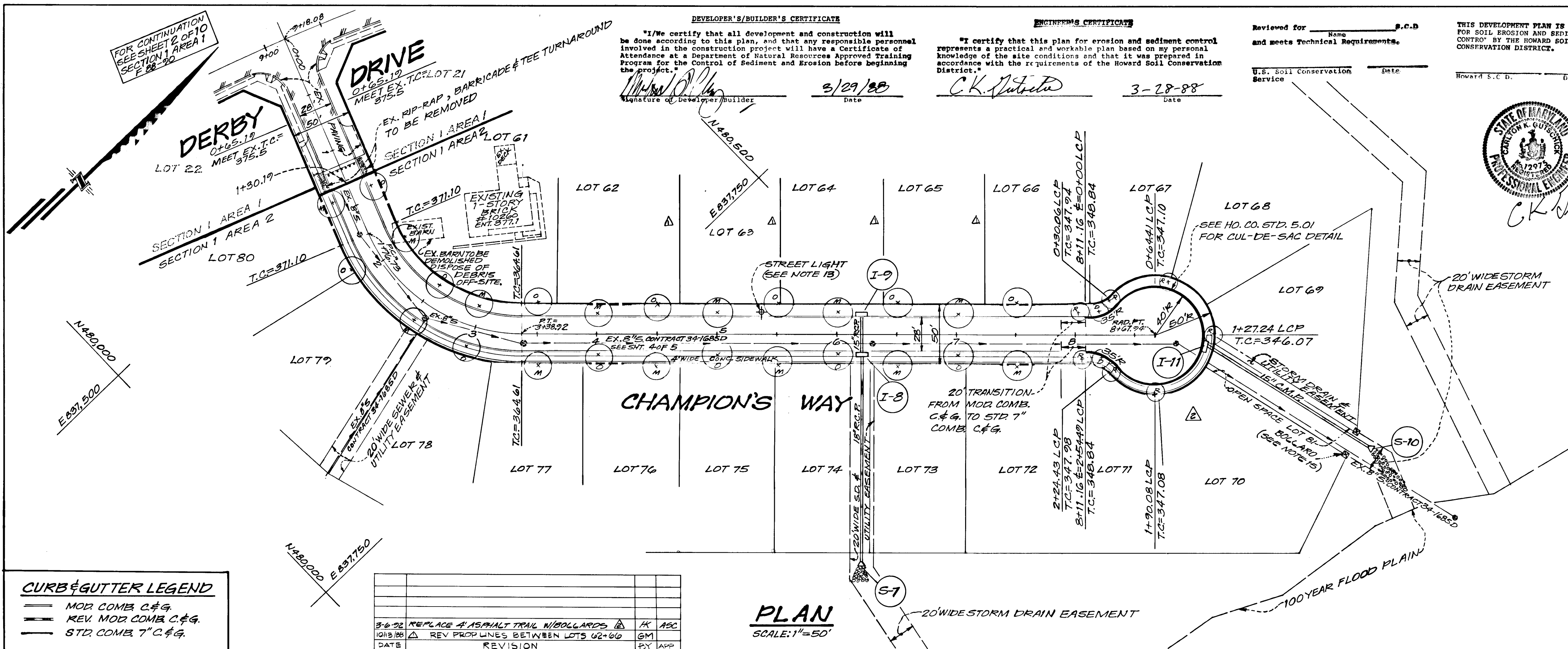
DATE	REVISION	BY
2-6-88	REPLACE 4 ASPHALT TRAIL WITH BOLLARDS	HK



**PROFILE SCALE:**  
 HORIZ.: 1"=50'  
 VERT.: 1"=5'

**PROFILE LEGEND:**  
 — PROFILE GRADE LINE  
 - - - EXISTING ε  
 - - - B.R.L. (RT)  
 - - - B.R.L. (LT)

1357



**DEVELOPER'S/BUILDER'S CERTIFICATE**  
 "I certify that all development and construction will be done according to this plan, and that any responsible personnel involved in the construction project will have a Certificate of Attendance at a Department of Natural Resources Approved Training Program for the Control of Sediment and Erosion before beginning the project."  
 Signature of Developer/Builder: *[Signature]*  
 Date: 3/29/88

**ENGINEER'S CERTIFICATE**  
 "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."  
 Signature of Engineer: *[Signature]*  
 Date: 3-28-88

Reviewed for \_\_\_\_\_ S.C.D.  
 and meets Technical Requirements.  
 U.S. Soil Conservation Service  
 Date: \_\_\_\_\_

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.  
 Howard S.C.D. Date: \_\_\_\_\_

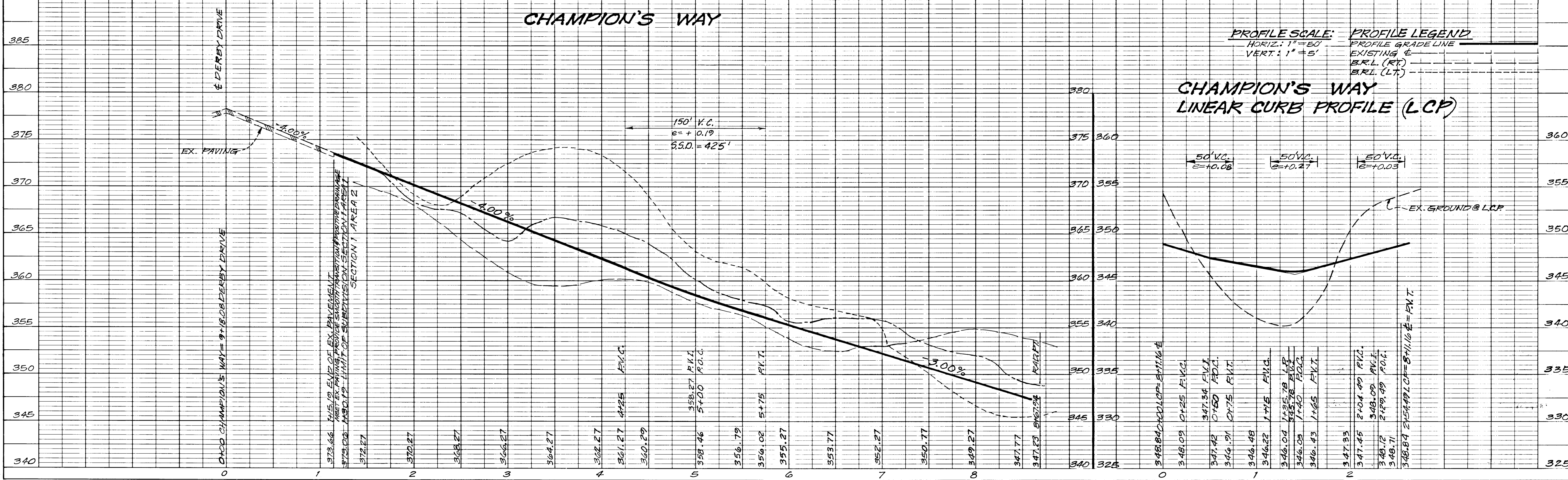
**CURVE DATA - CHAMPION'S WAY**  
 PC = 1+76.73 TO PT = 3+38.92  
 R = 140.00'  
 ARC = 162.19'  
 Δ = 66°22'31"  
 CHR = N 77°02'13"E, 153.27'

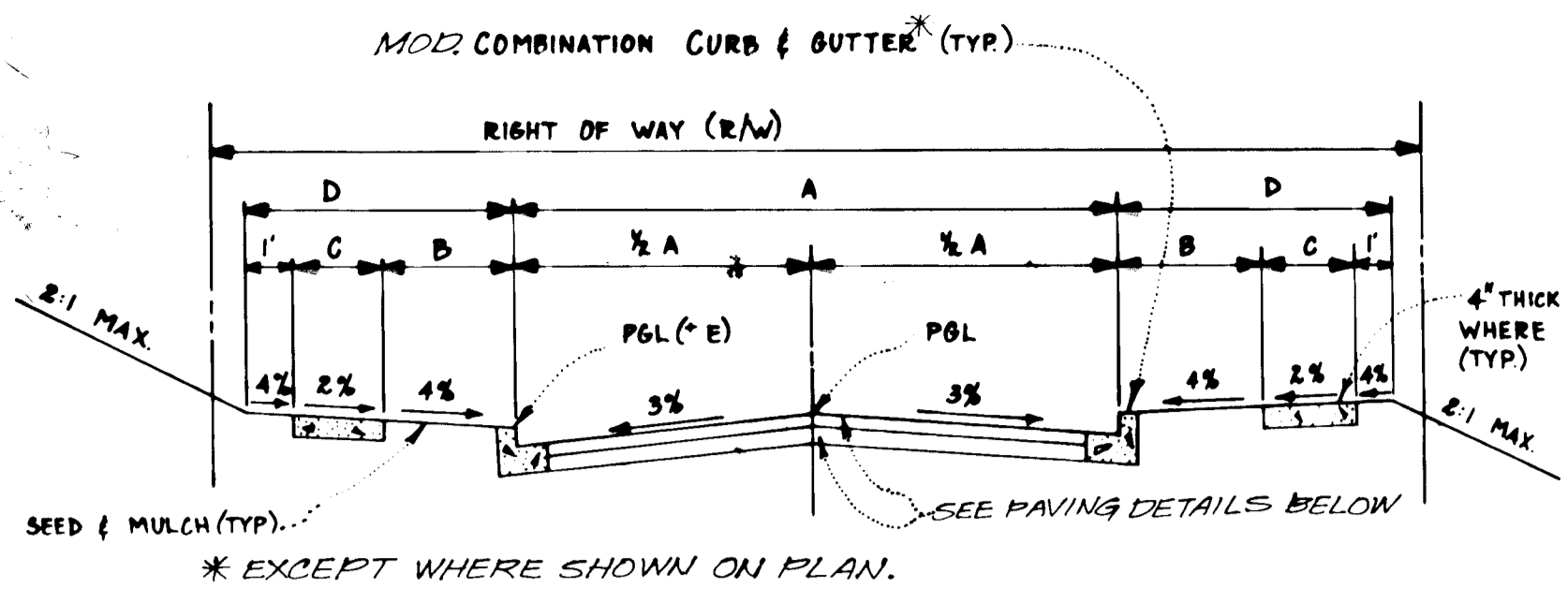


APPROVED: DEPARTMENT OF PUBLIC WORKS  
 Chief, Land Development Division: 7/19/88  
 Chief, Bureau of Highways: 7/21/88  
 Chief, Bureau of Engineering: 7-22-88  
 APPROVED: HOWARD COUNTY OFFICE OF PLANNING & ZONING  
 Chief, Division of Community Planning & Land Development: 7-25-88

**G.W. GUTSCHICK LITTLE & WEBER, P.A.**  
 ENGINEERS, PLANNERS, SURVEYORS  
 3909 NATIONAL DRIVE - SUITE 250 - BURTONSVILLE OFFICE PARK - BURTONSVILLE, MD. 20866  
 TEL.: (301) 421-4024

DESIGNED: A.S.C. ROAD CONSTRUCTION PLANS CHAMPION'S WAY SCALE: AS SHOWN  
 DRAWN: K.R.S. HUNTERS CREEK FARM DRAWING: 3 OF 6  
 CHECKED: C.K.G. SECTION ONE AREA TWO 6th ELECTION DISTRICT HOWARD COUNTY, MARYLAND  
 DATE: MARCH 1988 FOR: CAPITAL HOMES, INC. 10200 GORMAN ROAD LAUREL, MARYLAND 20701 JOB NO. 86-027

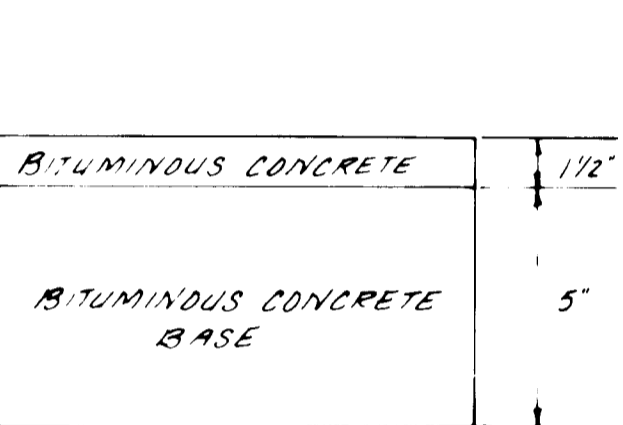




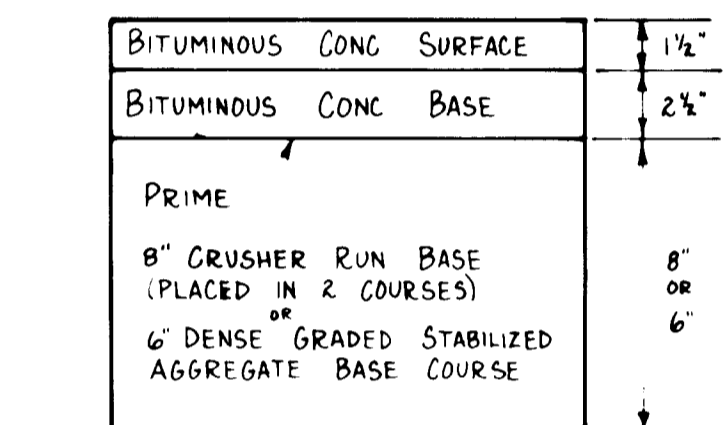
TYPICAL PAVING SECTION - PUBLIC ROADS  
NO SCALE

STREET NAME & STATION	TYPE OF TRAFFIC	A	B	C	D	R/W	ZONING	DESIGN SPEED	E
DERBY DRIVE 11+27.30 TO 18+25.27	LOCAL ROAD	30'	4'	4'	9'	50'	R-20	30	-0.05
PIMLICO PLACE 0+00 TO 1+39.26	CUL-DE-SAC	24'	4'	4'	9'	50'	R-20	25	-0.04
CHAMPION'S WAY 1+30.19 TO 8+67.94	CUL-DE-SAC	28'	4'	4'	9'	50'	R-20	30	-0.10

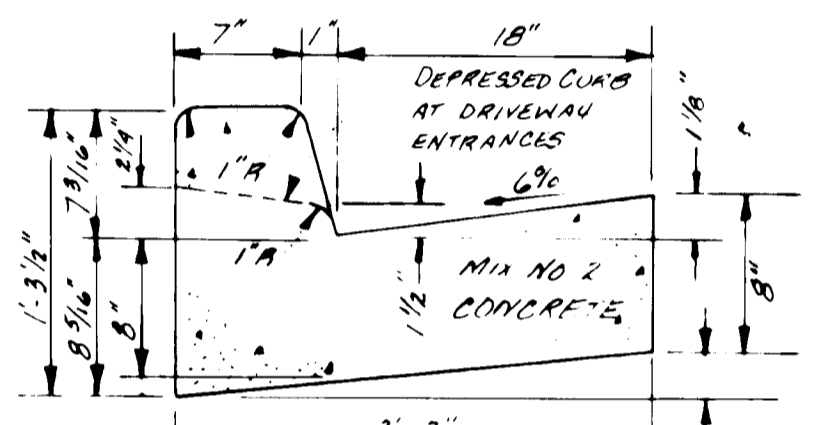
NOTE: SEE PAVING SECTION DETAILS BELOW



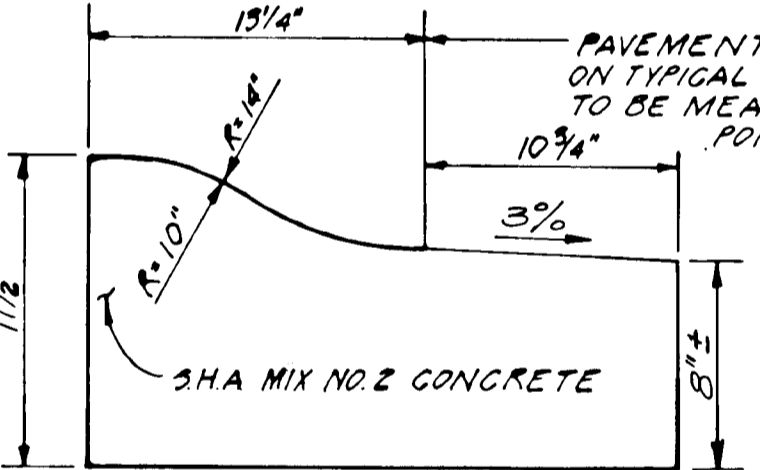
P-2 PAVING SECTION FOR PUBLIC ROADS  
NO SCALE



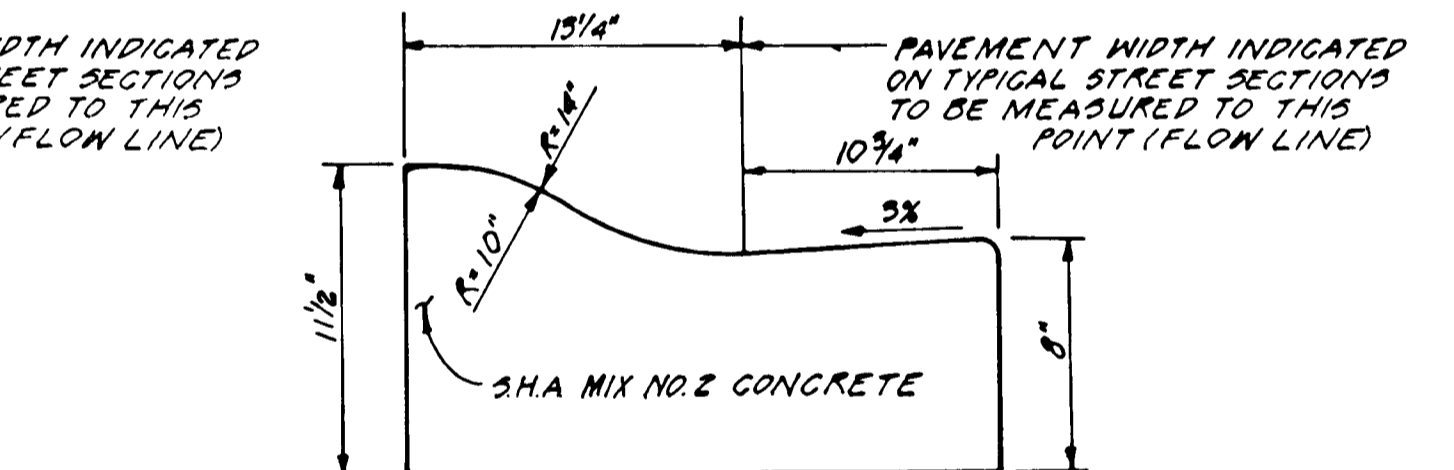
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NO SCALE



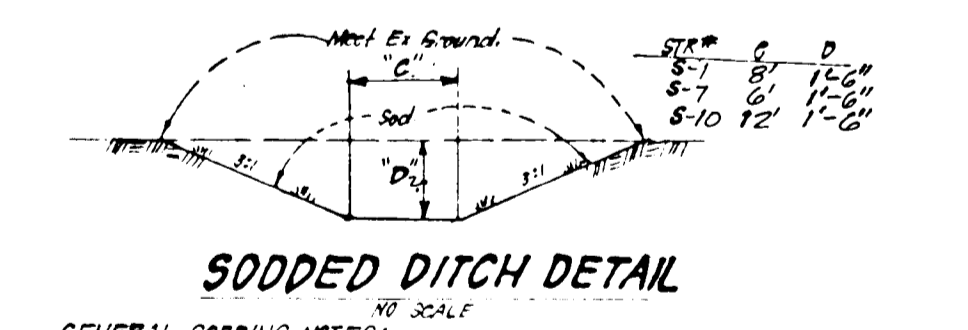
STANDARD 7" COMBINATION CURB & GUTTER  
NO SCALE



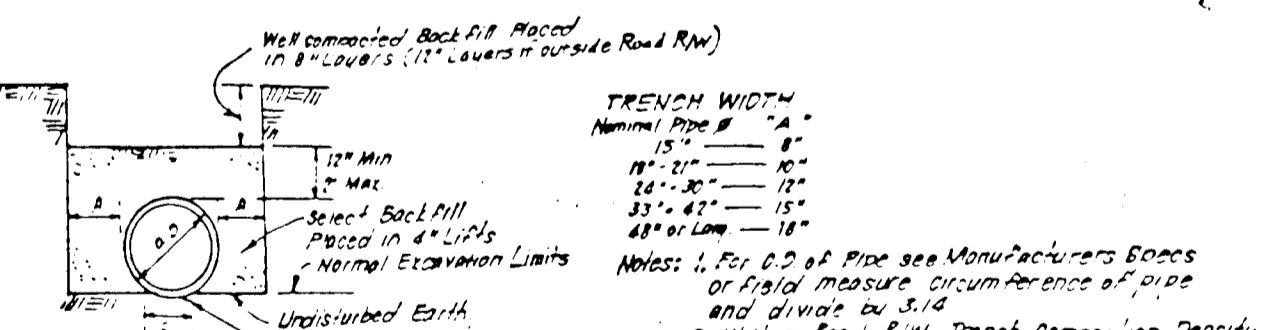
MODIFIED CURB & GUTTER  
NO SCALE



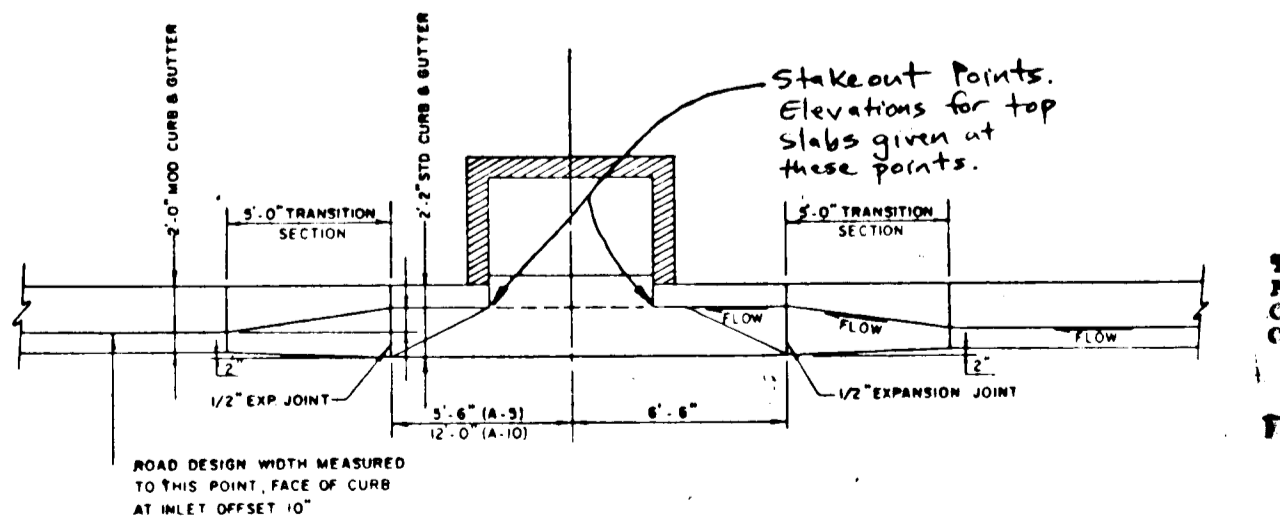
MODIFIED CURB & GUTTER  
NO SCALE



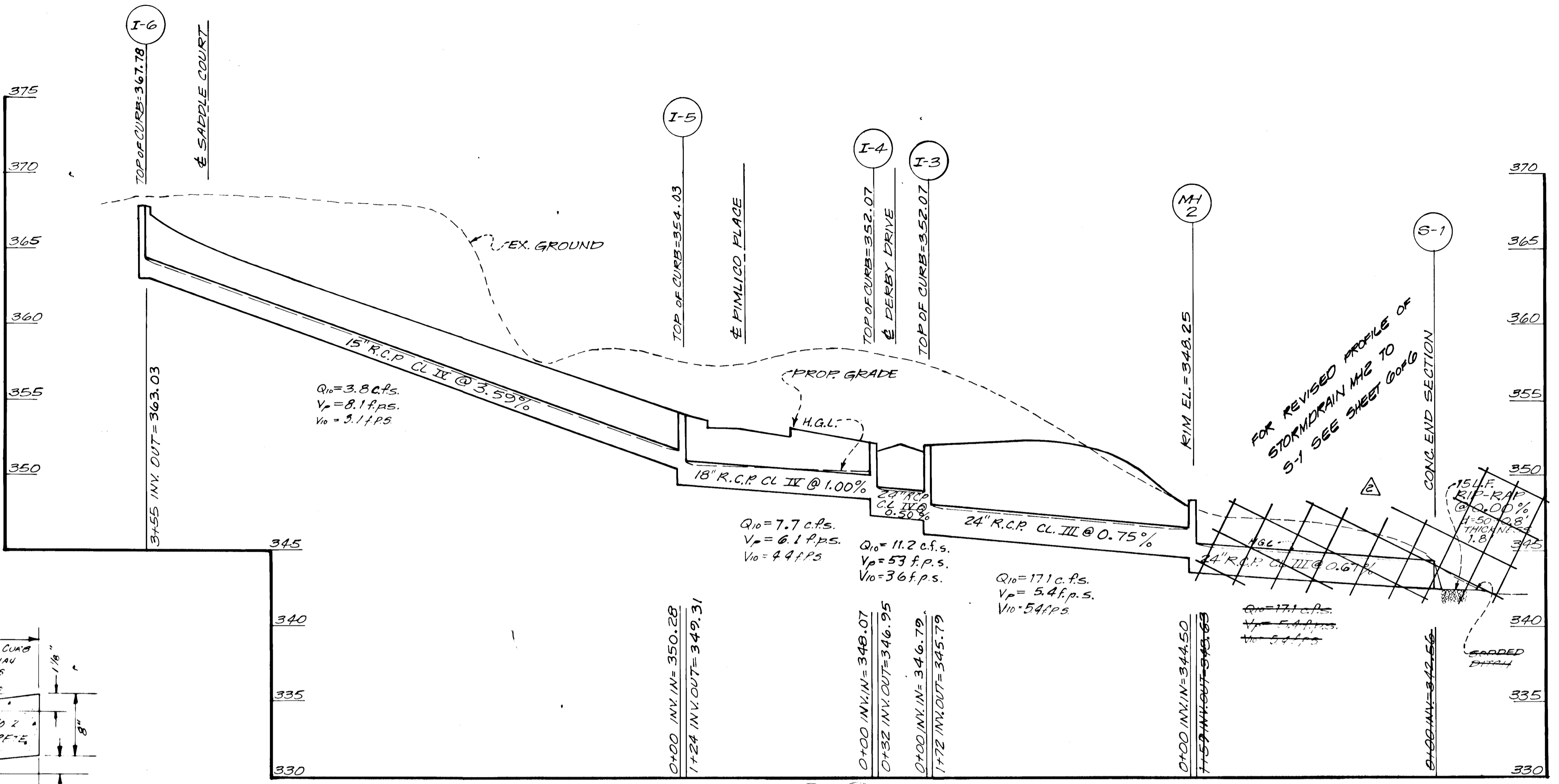
SODDED DITCH DETAIL  
NO SCALE



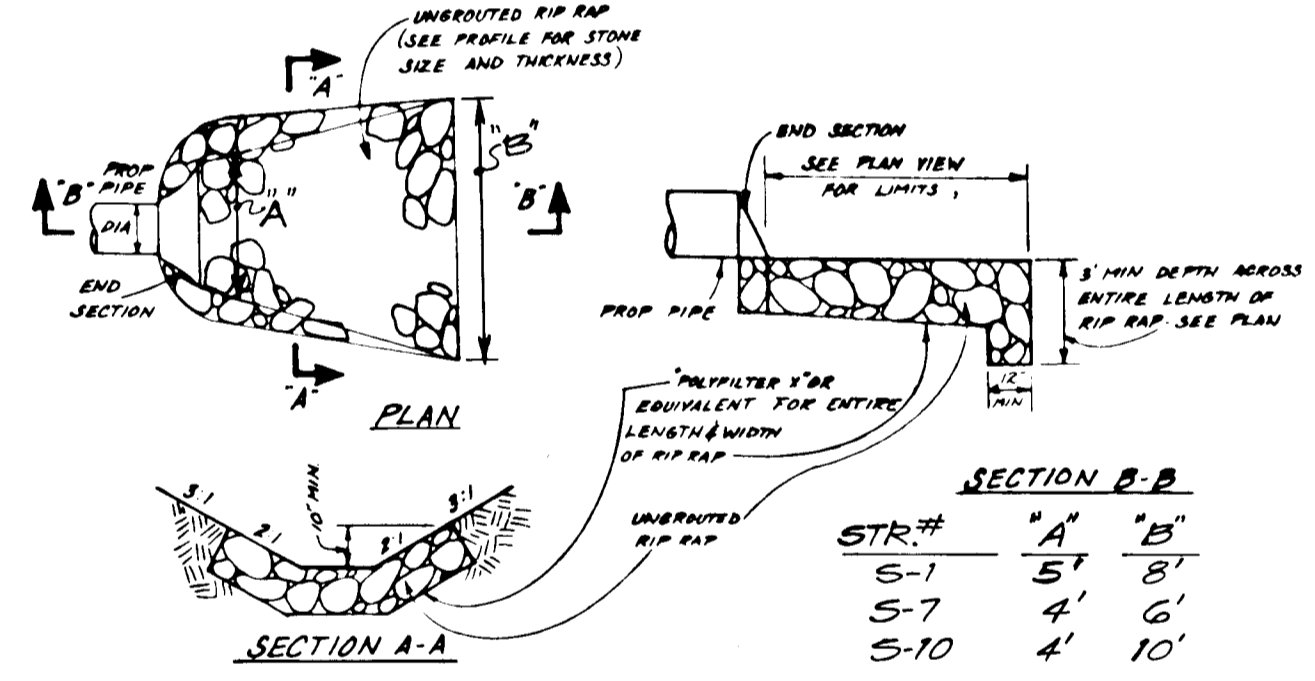
TRENCH BEDDING DETAIL  
NO SCALE



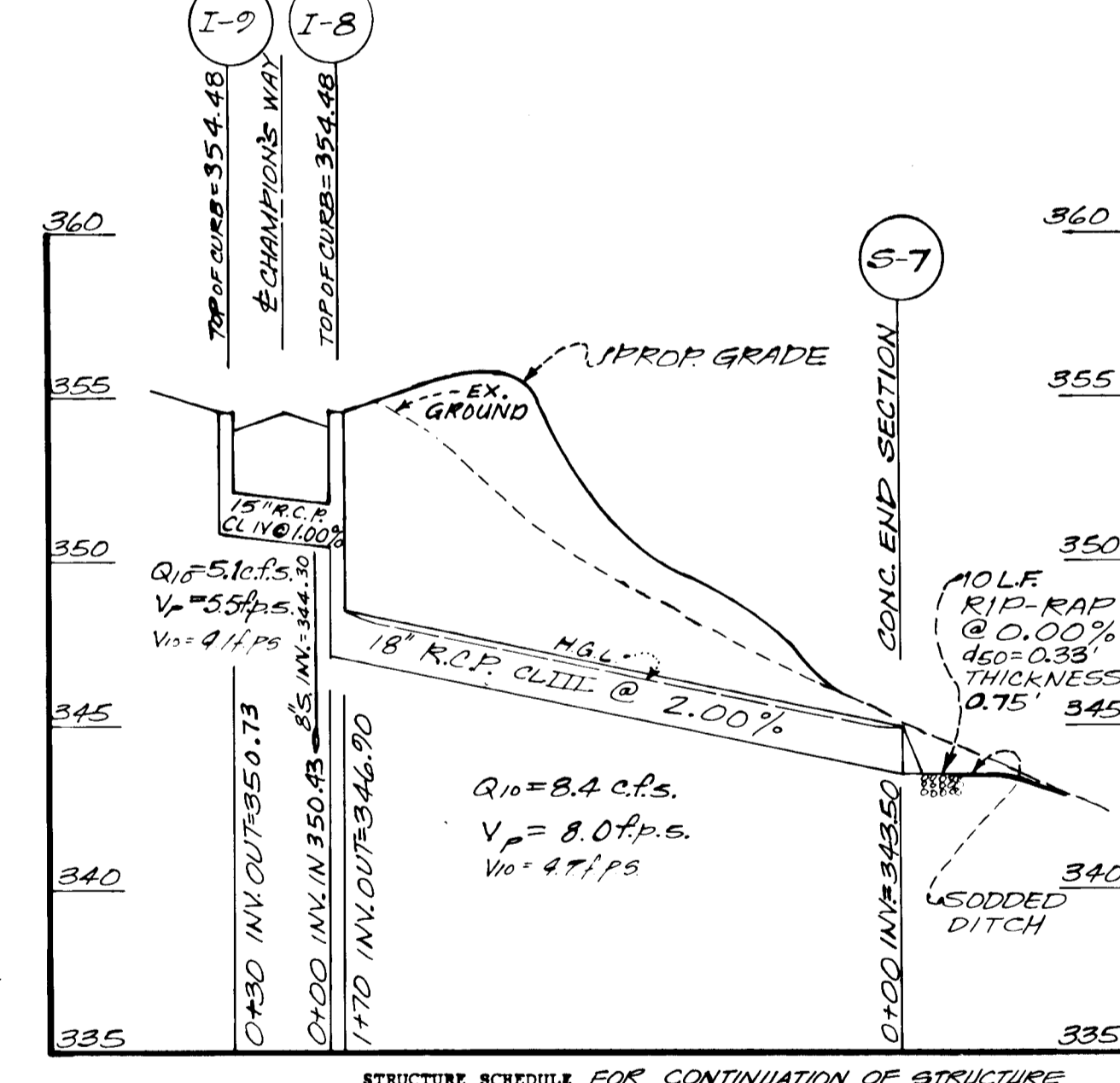
TRANSITION CURB SECTION AT 'A' TYPE INLETS  
NO SCALE



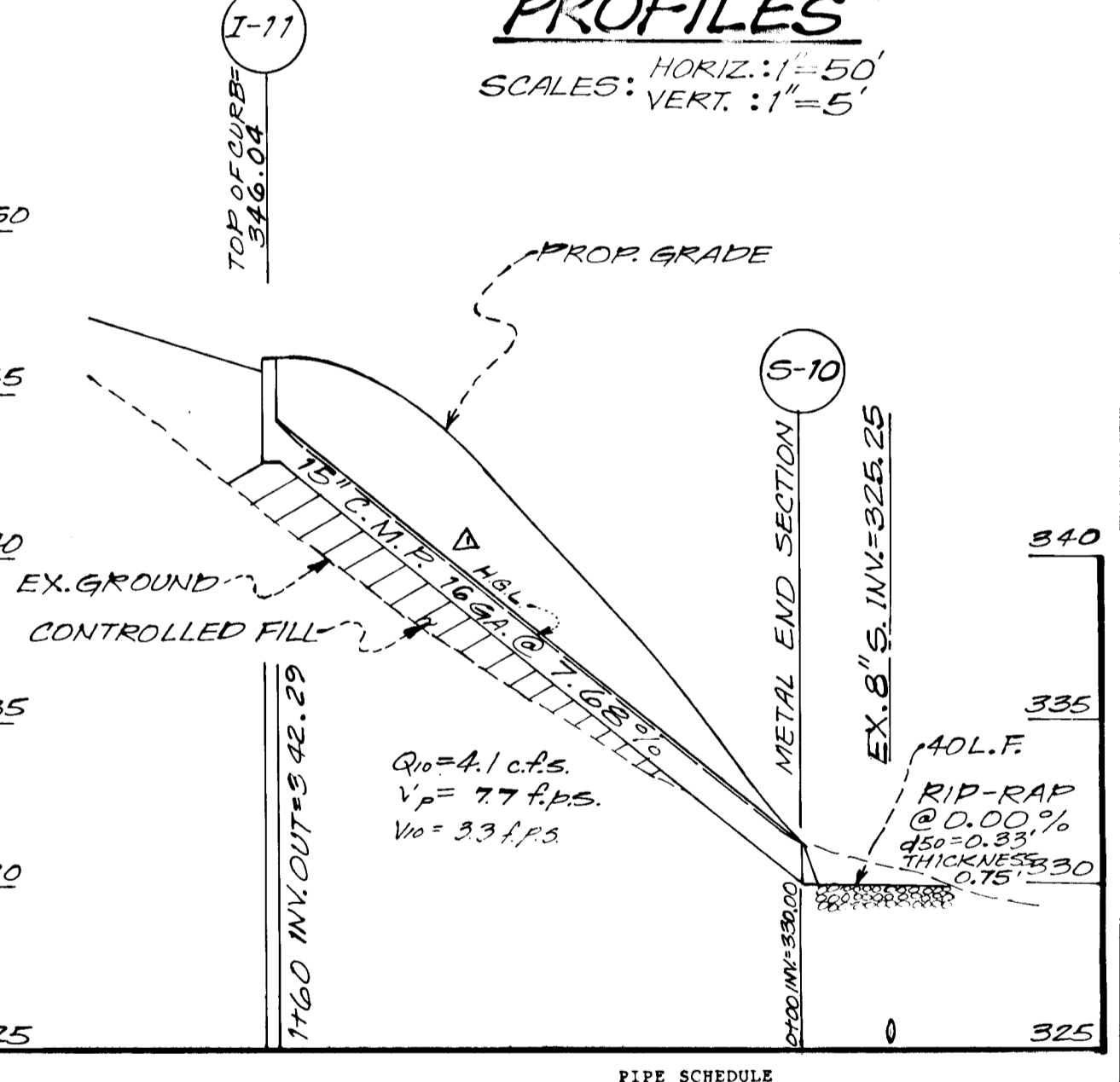
PROFILES  
SCALES: HORIZ.: 1"=50'  
VERT.: 1"=5'



UNGROUTED RIPRAP OUTLET PROTECTION DETAILS  
NO SCALE



STRUCTURE SCHEDULE FOR CONTINUATION OF STRUCTURE SCHEDULE SEE SHEET 6 OF G



PIPE SCHEDULE

STATE OF MARYLAND  
PROFESSIONAL ENGINEER  
3/29/88  
C.K. Peters

I certify that this plan for erosion and sediment control represents a practical and suitable plan based on my personal knowledge of the site conditions and that it was prepared in accordance with the requirements of the Board of Soil Conservation.

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE BOARD OF SOIL CONSERVATION.

NO.	TYPE	INV. IN	INV. OUT	TOP ELEVATION	REMARKS	LOCATION
S-1	END SECTION	342.56	342.51	342.56/342.51	NCS SD 5.52 24"	SEE PLAN
MH-2	MANHOLE	344.50	343.50	348.25	NCS G-5.12	SEE PLAN
I-3	A-10 INLET	346.79	345.79	352.07	NCS SD 4.01 W-1.5'	CENTERLINE INLET 17+32.64 DERBY DRIVE 16.85' RT.
I-4	A-10 INLET	348.07	346.95	352.07	NCS SD 4.02 W-1.5'	CENTERLINE INLET 17+32.64 DERBY DRIVE 16.85' RT.
I-5	A-10 INLET	350.28	349.31	354.34/354.03	NCS SD 4.02 W-2.5'	CENTERLINE INLET 17+32.64 DERBY DRIVE 16.85' RT.
I-6	A-10 INLET W/DEFLECTORS	-----	363.03	368.23/367.78	NCS SD 4.02 W-2.5'	13+98 DERBY DRIVE 16.85' RT.
S-7	END SECTION	343.50	343.38	343.50/343.38	NCS SD 5.52 18"	SEE PLAN
I-8	A-10 INLET	350.43	346.90	354.78/354.48	NCS SD 4.02 W-1.5'	CENTERLINE INLET 6+18 CHAMPION'S WAY 14.85' LT.
I-9	A-10 INLET W/DEFLECTORS	-----	350.73	354.78/354.48	NCS SD 4.20 W-2.5'	CENTERLINE INLET 6+18 CHAMPION'S WAY 14.85' LT.
S-10	END SECTION	330.00	329.83	330.00/329.86	NCS SD 5.61 15"	SEE PLAN
I-11	A-10 INLET	-----	342.29	346.04	NCS SD 4.02 W-1.5'	SEE PLAN

APPROVED: DEPARTMENT OF PUBLIC WORKS  
 APPROVED: HOWARD COUNTY OFFICE OF PLANNING & ZONING  
 APPROVED: CHIEF, DIVISION OF COMMUNITY PLANNING & LAND DEVELOPMENT

**GLW GUTSCHICK LITTLE & WEBER, P.A.**  
 ENGINEERS, PLANNERS, SURVEYORS  
 3909 NATIONAL DRIVE SUITE 250 BURTONSVILLE OFFICE PARK BURTONSVILLE, MD 20886  
 TELEPHONE (301) 421-4024

PREPARED FOR:  
**CAPITAL HOMES, INC.**  
 10200 GORMAN ROAD  
 LAUREL, MARYLAND 20707

DATE: 10-15-88  
 REVISION: REV 10 GA CMP TO 10 GA CMP

DATE: 3/29/88  
 REVISION: REV 10 GA CMP TO 10 GA CMP

PAVING DETAILS AND STORM DRAIN PROFILES  
**HUNTERS CREEK FARM SECTION 1 AREA 2**  
 LIBER B37 FOLIO G70  
 6th ELECTION DISTRICT HOWARD COUNTY, MARYLAND

SCALE: AS SHOWN  
 ZONING: R-20  
 G.L.W. FILE NO.: 86-027  
 DATE: MARCH 1988  
 TAX MAP NO.: 42 & 47  
 SHEET: 4 OF 6



**DEVELOPER'S/BUILDER'S CERTIFICATE**  
 I certify that all development and construction will be done according to this plan and that I have a Certificate of Attendance at a Department of Public Works Approved Training Program for the Control of Soil Erosion before beginning the project. I also authorize periodic on-site inspection by the S.C.D.

Signature of Developer/Builder: *[Signature]* Date: 3/22/88

**ENGINEER'S CERTIFICATE**  
 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.

Signature of Engineer: *[Signature]* Date: 3/28/88

FOR DETAILS IN THIS AREA SEE PLANS FOR HUNTERS CREEK FARM SECTION 1 AREA 1 P. 88-90

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

Reviewed For: *[Signature]* S.C.D. Name and specs Technical Requirements.

U.S. Soil Conservation Service Date

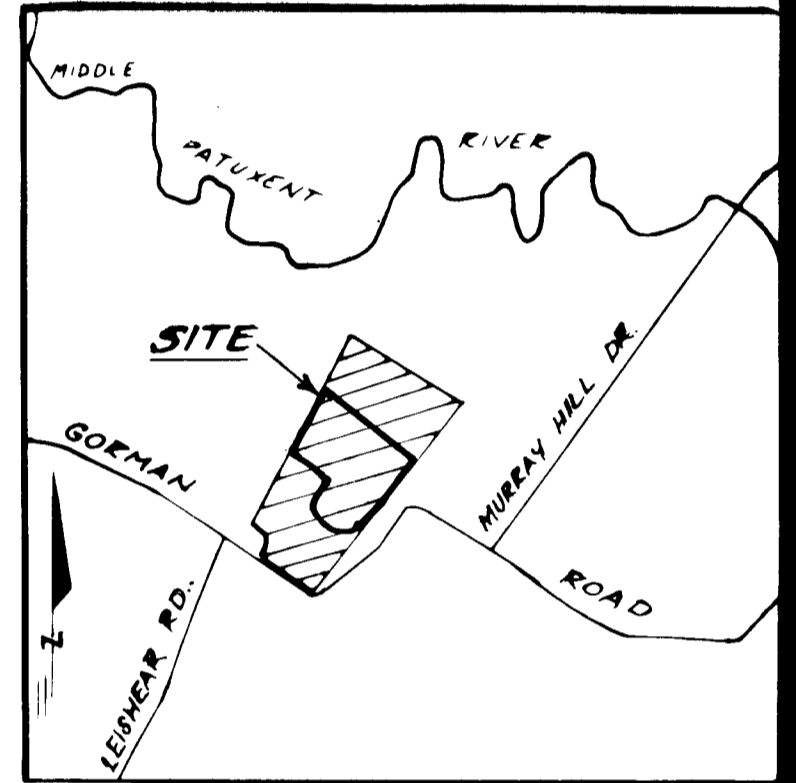
**SEDIMENT TRAP NO. 3**  
 RIP-RAP OUTLET Sediment Trap

Drainage Area = 7.4 Ac. (Pre-Development) (Post-Development)  
 Storage Required = 7.4 (1800) = 13,320 cu. ft.  
 Storage Depth = 5 feet  
 Cleanout Elevation = 3285  
 Outlet Elevation = 3260  
 Bottom Elevation = 3260  
 Side Slopes = 2:1  
 Surface Area @ Elevation 3310 (\*L.O.S.) = 3721 sq. ft.  
 Surface Area @ Elevation 3260 (bottom) = 1281 sq. ft.  
 Volume Provided =  $\frac{3721 + 1281}{2} \times 5 = 13,505 \text{ C.F.}$

L.O.S. = Limit of Storage

**LEGEND**

- EXISTING CONTOUR
- PROPOSED CONTOUR
- LIMIT OF DISTURBANCE
- STABILIZED CONSTRUCTION ENTRANCE
- PERIMETER DIKE
- EARTH DIKE (E.D.)
- INLET PROTECTION
- PROPOSED DRAINAGE DIVIDE (S.W.M. MODEL)
- PROPOSED DRAINAGE DIVIDE (S.D. SYSTEM)
- DRAINAGE AREA FOR S.W.M. STUDY



**SEDIMENT TRAP NO. 2**  
 RIP-RAP OUTLET Sediment Trap

Drainage Area = 4.7 Ac. (Pre-Development) (Post-Development)  
 Storage Required = 5.5 (1800) = 9,900 cu. ft.  
 Storage Depth = 5 feet  
 Cleanout Elevation = 3225  
 Outlet Elevation = 3260  
 Bottom Elevation = 3200  
 Side Slopes = 2:1  
 Surface Area @ Elevation 3250 (\*L.O.S.) = 2,925 sq. ft.  
 Surface Area @ Elevation 3200 (bottom) = 1,125 sq. ft.  
 Volume Provided =  $\frac{2,925 + 1,125}{2} \times 5 = 10,125 \text{ C.F.}$

L.O.S. = Limit of Storage

APPROVED: DEPARTMENT OF PUBLIC WORKS

*[Signature]* 7/19/88  
 CHIEF, LAND DEVELOPMENT DIVISION DATE

*[Signature]* 7/19/88  
 CHIEF, BUREAU OF HIGHWAYS DATE

*[Signature]* 7/19/88  
 CHIEF BUREAU OF ENGINEERING DATE

APPROVED: HOWARD COUNTY OFFICE OF PLANNING & ZONING

*[Signature]* 7-28-88  
 CHIEF, DIVISION OF COMMUNITY PLANNING & LAND DEVELOPMENT DATE

**SEDIMENT TRAP NO. 1**  
 RIP-RAP OUTLET Sediment Trap

Drainage Area = 4.7 Ac. (Pre-Development) (Post-Development)  
 Storage Required = 5.4 (1800) = 9,720 cu. ft.  
 Storage Depth = 5 feet  
 Cleanout Elevation = 3375  
 Outlet Elevation = 3410  
 Bottom Elevation = 3350  
 Side Slopes = 2:1  
 Surface Area @ Elevation 3400 (\*L.O.S.) = 2,925 sq. ft.  
 Surface Area @ Elevation 3350 (bottom) = 1,125 sq. ft.  
 Volume Provided =  $\frac{2,925 + 1,125}{2} \times 5 = 10,125 \text{ C.F.}$

L.O.S. = Limit of Storage

**GW GUTSCHICK LITTLE & WEBER, P.A.**  
 ENGINEERS, PLANNERS, SURVEYORS  
 3909 NATIONAL DRIVE - SUITE 250 - BURTONSVILLE OFFICE PARK - BURTONSVILLE, MD. 20886  
 TELEPHONE: (301) 421-4024

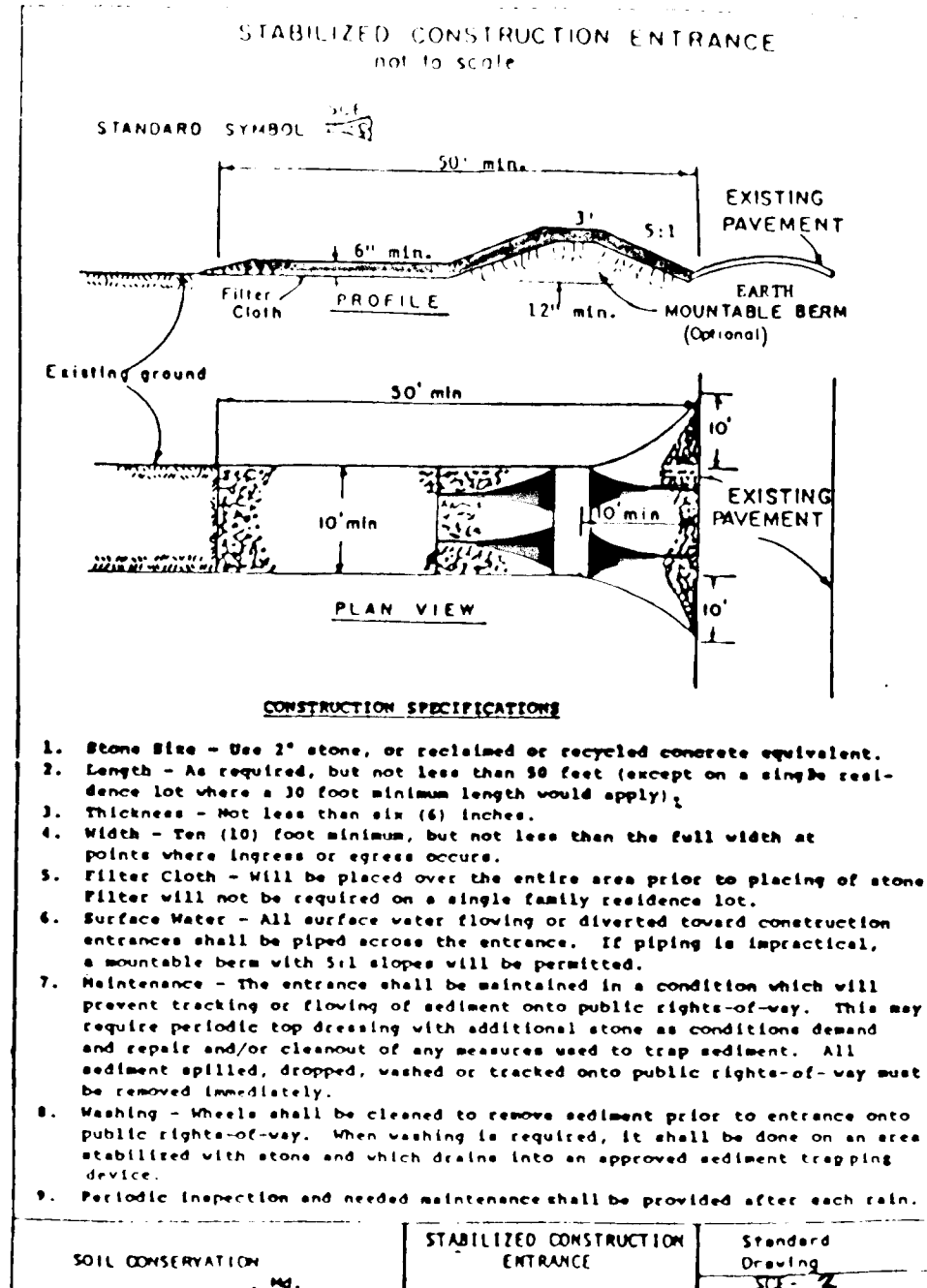
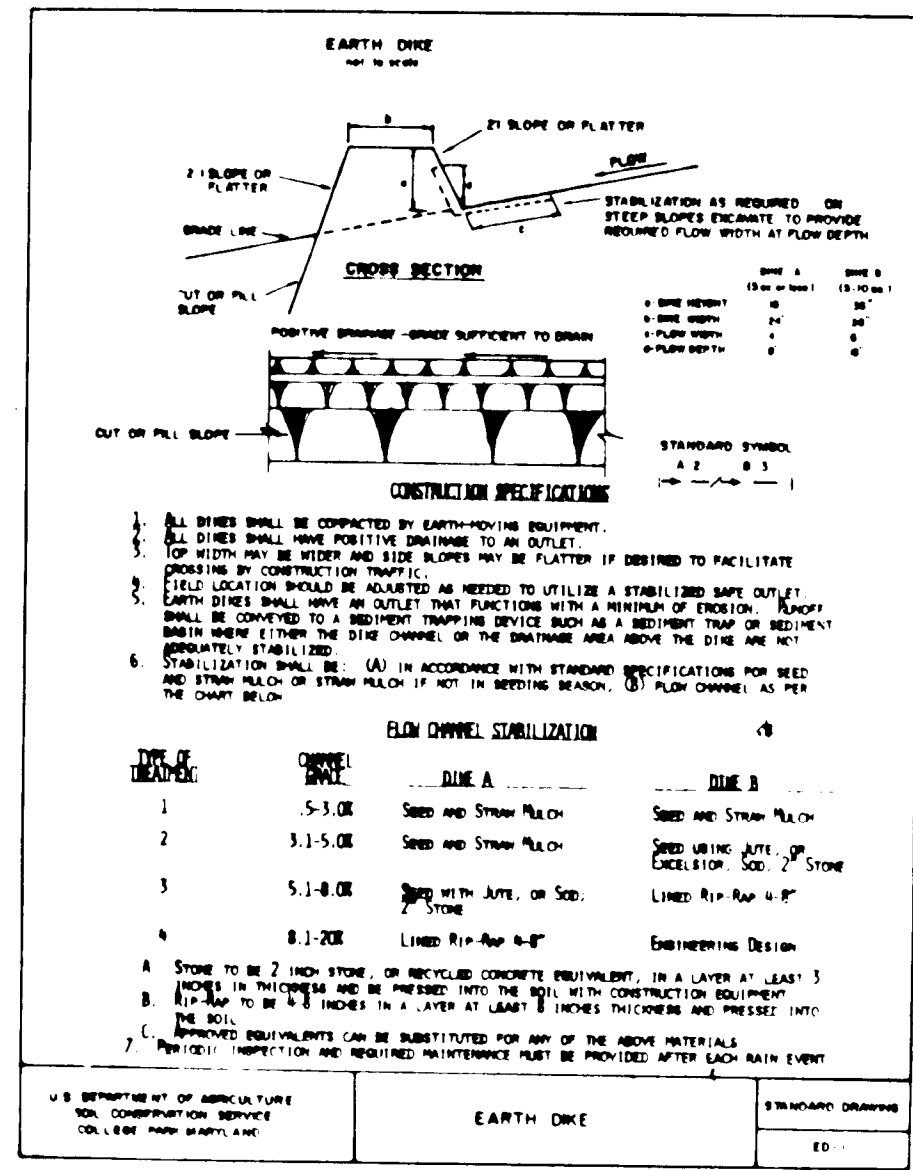
DATE	REVISION	BY	APP'R.
7-21-82	ADDED NEW STORM DRAIN	HK	ASC
3-6-88	REMOVED 4 ASPHALT TRAILS	HK	ASC

PREPARED FOR:  
 CAPITAL HOMES, INC.  
 10200 GORMAN ROAD  
 LAUREL, MARYLAND 20707

**SEDIMENT CONTROL PLAN AND DRAINAGE AREA MAP**  
**HUNTERS CREEK FARM SECTION 1 AREA 2**  
 LIBER 837 FOLIO 670  
 6th ELECTION DISTRICT HOWARD COUNTY, MARYLAND

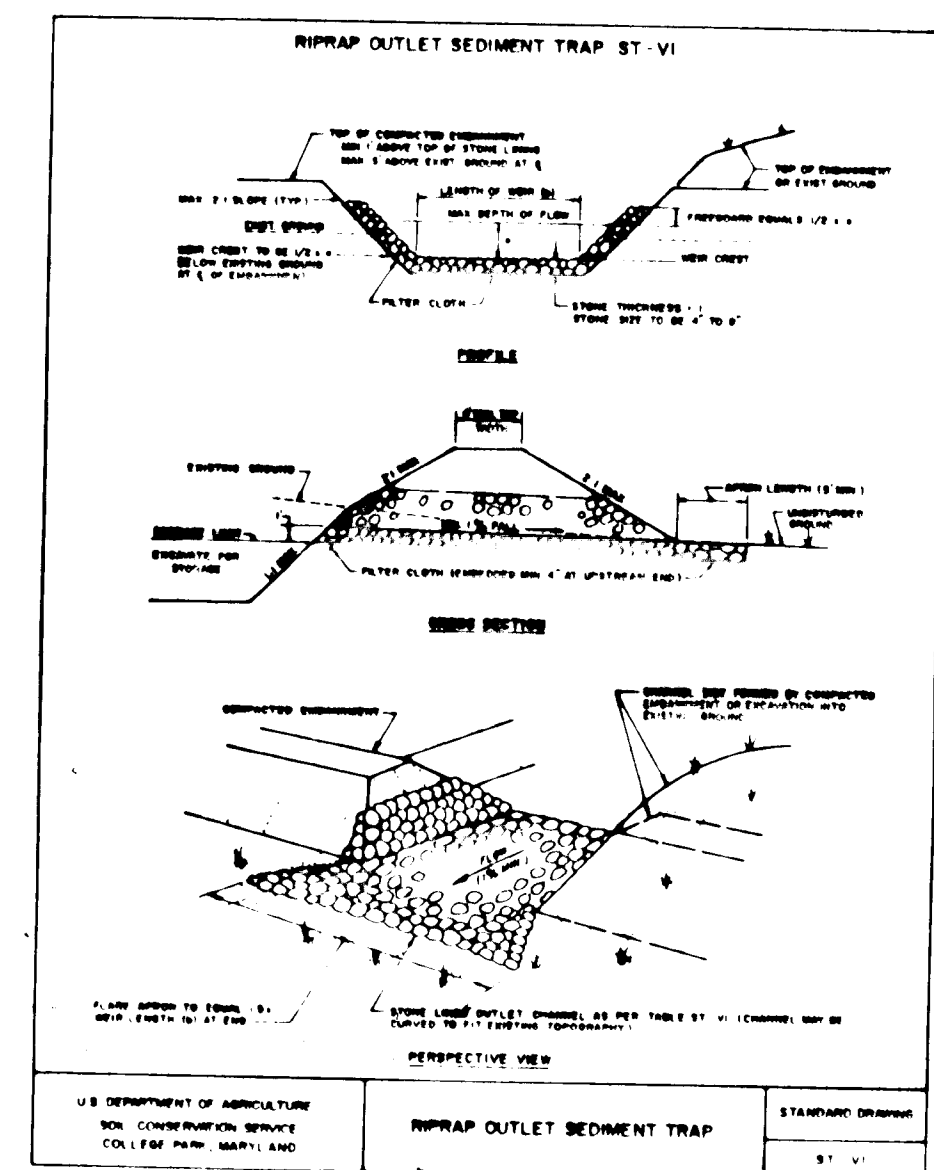
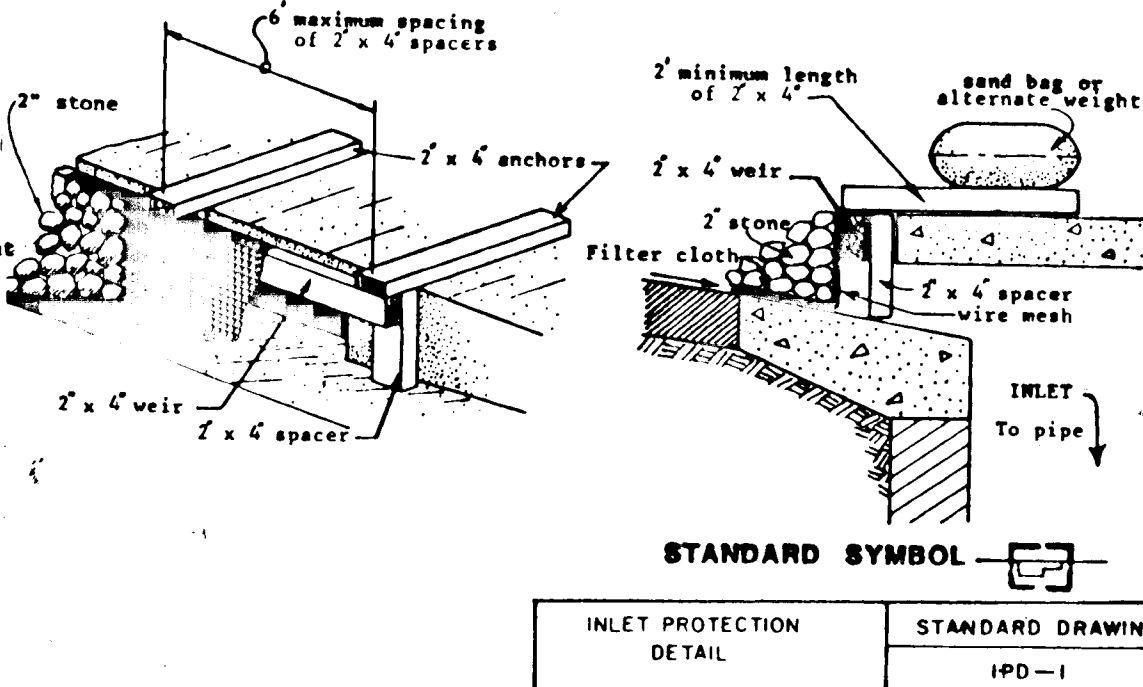
SCALE	ZONING	G.L.W. FILE No.
1"=50'	R-20	86-027
DATE	TAX MAP No.	SHEET
1988	42 & 47 PARCEL 81	5 OF 6

F-88-225



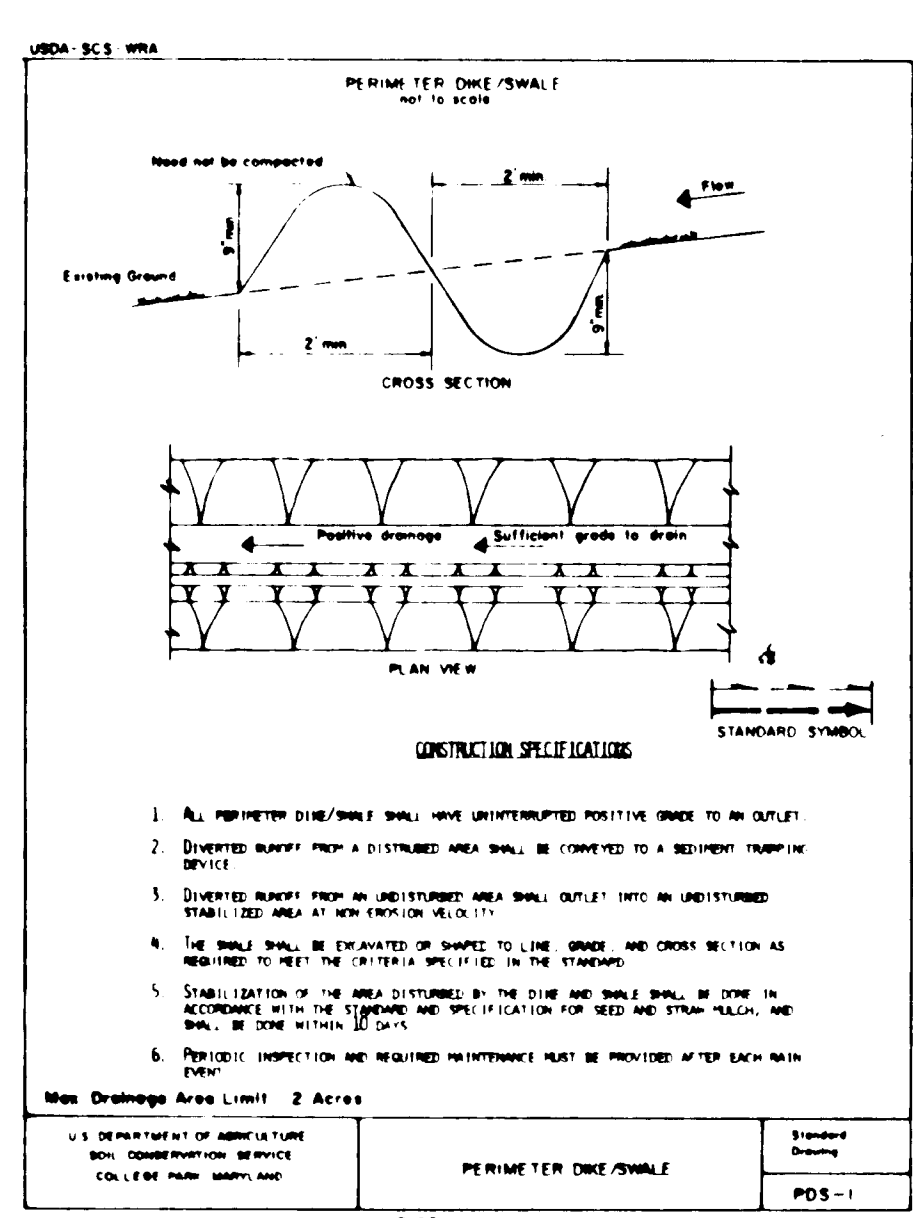
**Construction Specifications**

- Stone Size - Use 2" stone, or reclaimed or recycled concrete equivalent.
- Length - As required, but not less than 50 feet (except on a slope rest-stance 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 of areas 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 directed toward construction entrances shall be piped across the entrance. If piping is impractical, a manhole here with 24" slope will be provided.
- 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 cleaning of any areas used to trap sediment. All sediment applied, dropped, 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. Where 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.



**CONSTRUCTION SPECIFICATIONS FOR ST-VI**

- The area under submittal shall be cleared, grubbed and stripped of any vegetation and root mat. The soil area shall be cleared.
- The fill material for the submittal shall be free of roots or other woody vegetation as well as over-sized stones, rocks, organic material or other objectionable material. The submittal shall be completed by traversing with equipment while it is being constructed. Maximum height of submittal shall be five (5) feet, measured at construction of submittal.
- All fill slopes shall be 2:1 or flatter (cut slopes 1:1 or flatter).
- Elevation of the top of any dike directing water into trap must equal or exceed the height of submittal.
- 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 local well crest.
- Filter cloth shall be placed over the bottom and sides of the outlet channel prior to placement of stone. A layer of fabric mat overlay at least one (1) foot with section marked the entrance placed on top. Fabric shall be subbed at least six (6) inches into existing ground at entrance of outlet channel.
- Flow used in the outlet channel shall be four (4) to eight (8) inches (larger). To provide a filtering effect, a layer of filter cloth shall be subbed 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.
- 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.
- The structure shall be inspected after each rain and repaired as needed.
- Construction operations shall be carried out in such a manner that erosion and water pollution are minimized.
- The structure shall be removed and the area stabilized when the drainage area has been properly stabilized.
- Drainage area for this practice is limited to 15 acres or less.

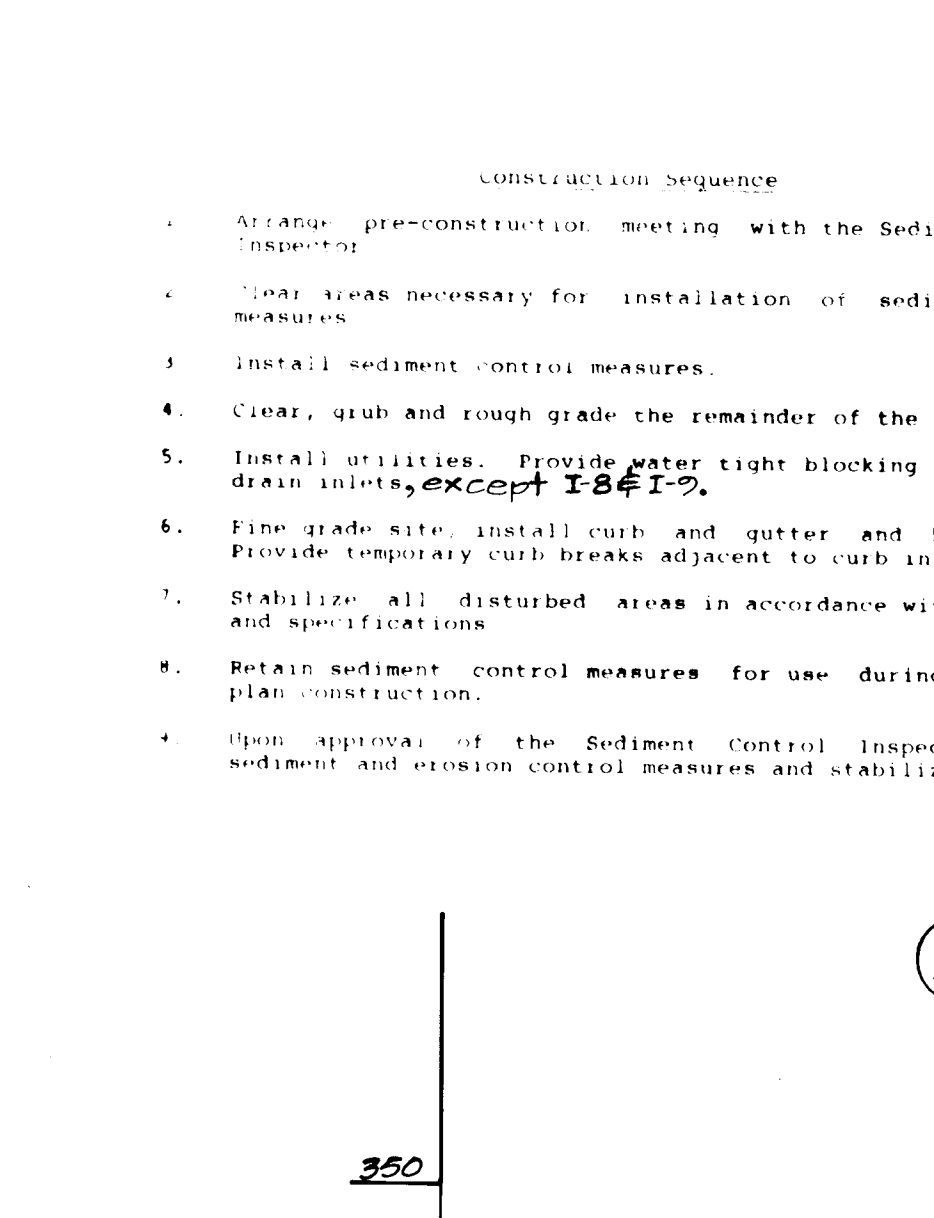
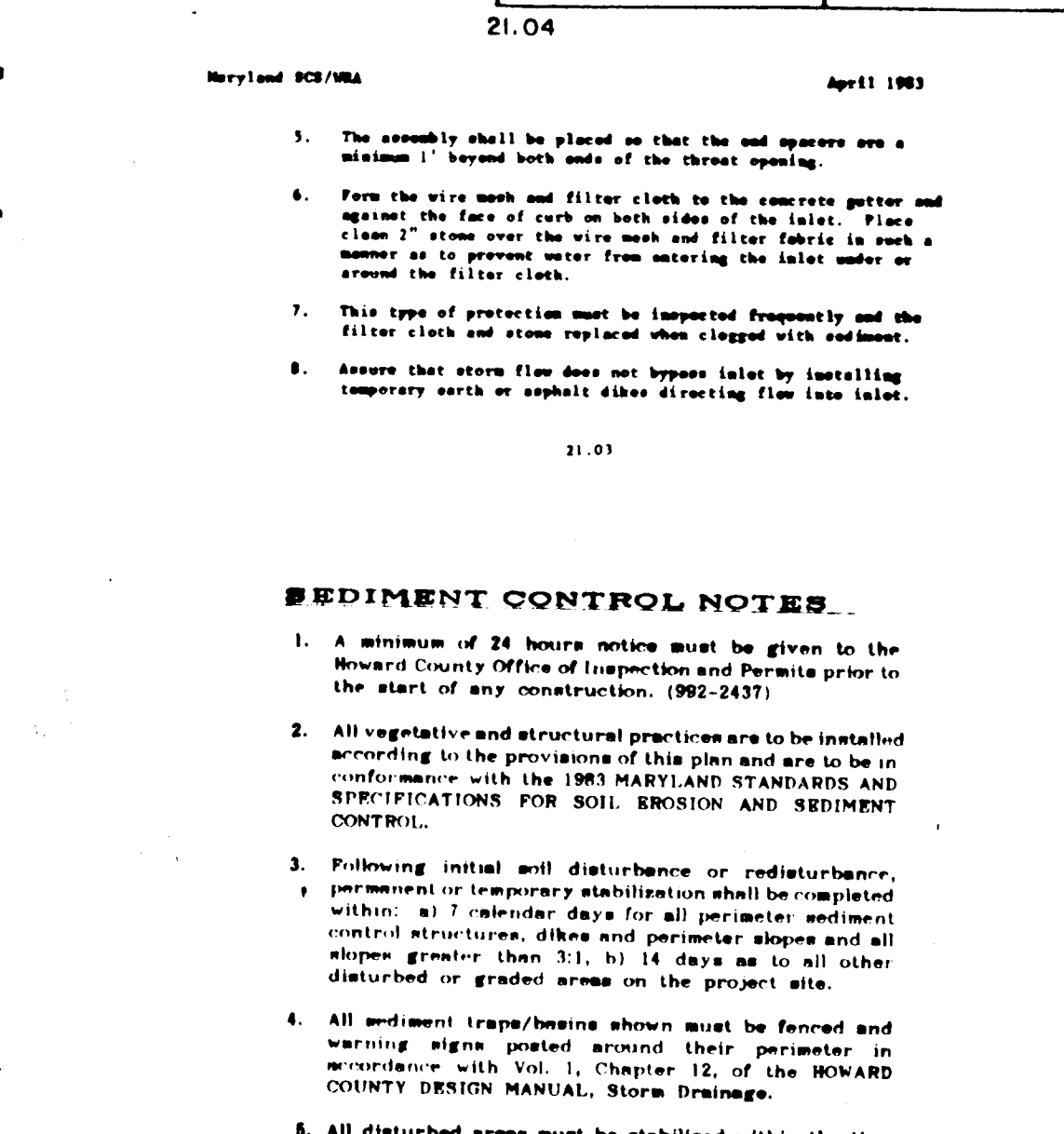


**STRUCTURE SCHEDULE**

No.	TYPE	INV. IN	INV. OUT	TOP ELEV.	REMARKS	LOCATION
I 101	YARD INLET		344.25	347.00	6.0 414	SEE PLAN
EX. 102	EX. IN	344.50	EX. 343.63	EX. 348.25		SEE PLAN

**Construction Specifications**

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- Thickness - Not less than six (6) inches.
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- Surface Water - All surface water flowing or directed toward construction entrances shall be piped across the entrance. If piping is impractical, a manhole here with 24" slope will be provided.
- 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 cleaning of any areas used to trap sediment. All sediment applied, dropped, 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. Where 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.



**CONSTRUCTION SPECIFICATIONS FOR ST-VI**

- The area under submittal shall be cleared, grubbed and stripped of any vegetation and root mat. The soil area shall be cleared.
- The fill material for the submittal shall be free of roots or other woody vegetation as well as over-sized stones, rocks, organic material or other objectionable material. The submittal shall be completed by traversing with equipment while it is being constructed. Maximum height of submittal shall be five (5) feet, measured at construction of submittal.
- All fill slopes shall be 2:1 or flatter (cut slopes 1:1 or flatter).
- Elevation of the top of any dike directing water into trap must equal or exceed the height of submittal.
- 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 local well crest.
- Filter cloth shall be placed over the bottom and sides of the outlet channel prior to placement of stone. A layer of fabric mat overlay at least one (1) foot with section marked the entrance placed on top. Fabric shall be subbed at least six (6) inches into existing ground at entrance of outlet channel.
- Flow used in the outlet channel shall be four (4) to eight (8) inches (larger). To provide a filtering effect, a layer of filter cloth shall be subbed 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.
- 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.
- The structure shall be inspected after each rain and repaired as needed.
- Construction operations shall be carried out in such a manner that erosion and water pollution are minimized.
- The structure shall be removed and the area stabilized when the drainage area has been properly stabilized.
- Drainage area for this practice is limited to 15 acres or less.

**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, disking 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 2 1/2 bushels 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 (0.7 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 seed.

**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.

**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, disking or other acceptable means before seeding.

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

- Preferred - Apply 2 tons per acre dolomitic limestone (92 lbs/1000 square feet) 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 480 lbs per acre 30-0-0 urea-form fertilizer (9 lbs/1000 sq ft).
- 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 (14 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 of the Kentucky 31 Tall Fescue. During the period of October 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. Option (2) Use seed. 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 gal 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.

**ENGINEER'S CERTIFICATE**

I certify that this plan for erosion and sediment control represents a practical and workable plan based on my personal inspection of the site conditions and that it was prepared in accordance with the requirements of the Howard County Department of Public Works.

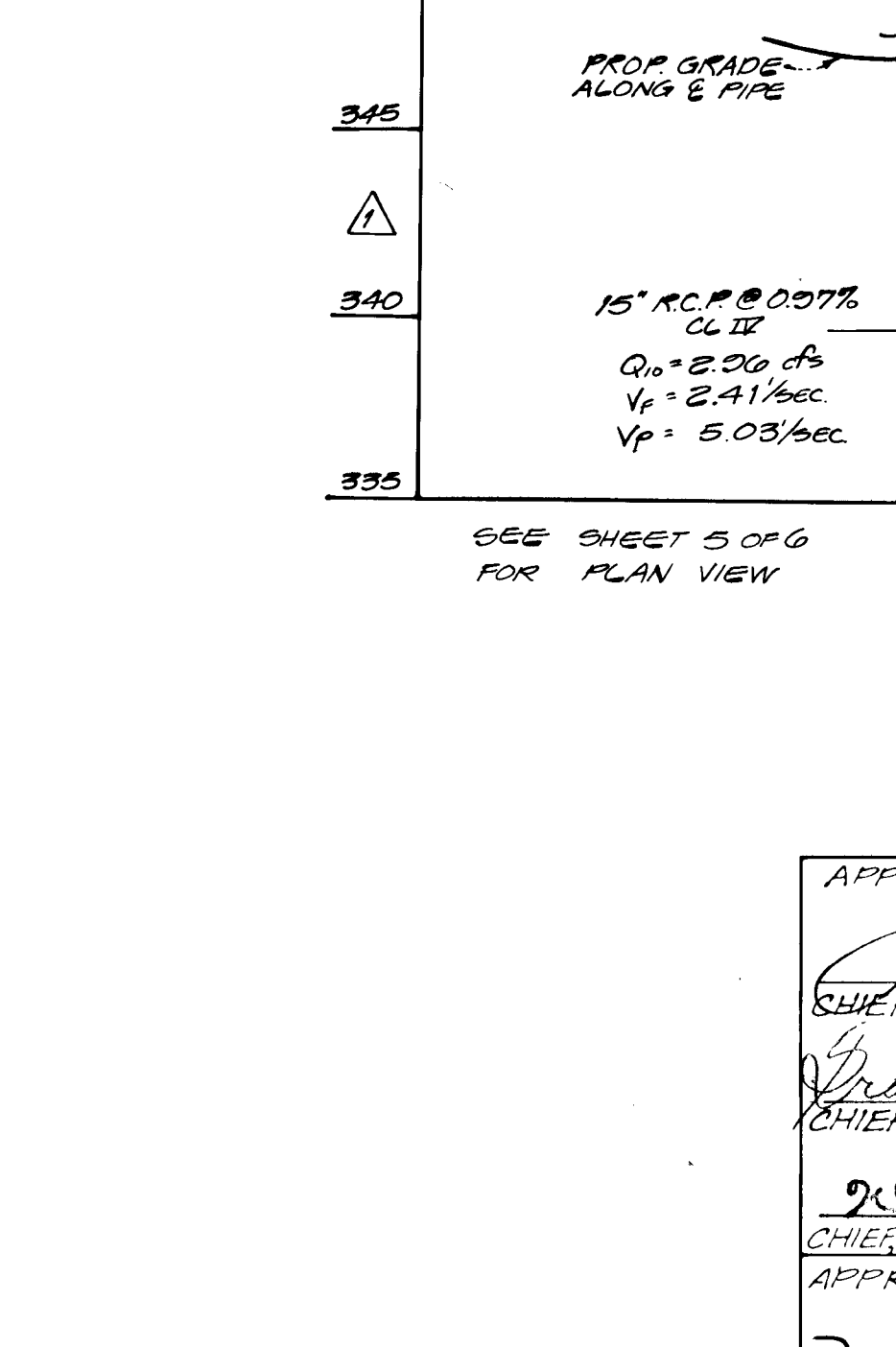
*C.K. Detwiler* 3/29/88

Reviewed for: S.C.D. and meets Technical Requirements.

U.S. Soil Conservation Service

**SEDIMENT CONTROL NOTES**

- A minimum of 24 hours notice must be given to the Howard County Office of Inspection and Permit 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 and perimeter slopes and all slopes greater than 3:1, b) 14 days for all other disturbed or graded areas on the project site.
- All sediment traps/basins shown must be fenced and warning signs posted around their perimeter in accordance with Vol. 1, Chapter 12, of the HOWARD COUNTY DESIGN MANUAL, Storm Drainage.
- All disturbed areas must be stabilized within the time period specified above in accordance with the 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL. Temporary seedings (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 in operative condition until permission for their removal has been obtained from the Howard County Sediment Control Inspector.
- Site Analysis:  
Total Area of Site: 20.5 Acres  
Area Disturbed: 75.0 Acres  
Area to be seeded or paved: 3.4 Acres  
Area to be vegetatively stabilized: 16 Acres  
Total PLS: 3000 Cu. Yds.  
Total PLS: 3000 Cu. Yds.  
Offsite waste/borrow area location: N/A
- Any sediment control practice which is distributed by grading activity for placement of utilities must be repaired on the same day of disturbance.
- Additional sediment control must be provided, if deemed necessary by the Howard County DPW sediment control inspector.
- On all sites with disturbed areas in excess of 2 acres, approval of the inspection agency shall be required 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 final approval by the inspection agency is made.
- If houses are to be constructed on an "As-Sub" basis, a final inspection of the Sediment Control as shown below shall be implemented.
- All pipes to be blocked at the end of each day (see detail below).
- The total amount of straw bale dikes/mulch fences equals 80' x 15'.



**PIPE SCHEDULE**

15" RCP @ 0.007% CL 12

Q<sub>10</sub> = 2.00 cfs

V<sub>10</sub> = 2.41/sec

V<sub>p</sub> = 5.03/sec

APPROVED: DEPARTMENT OF PUBLIC WORKS

*Donald J. Lewis* 7/19/88  
CHIEF, LAND DEVELOPMENT DIVISION DATE

*Francis W. Howard*  
CHIEF, BUREAU OF HIGHWAYS DATE

*W. S. ...* 7-27-88  
CHIEF, BUREAU OF ENGINEERING DATE

*Mark S. ...* 7-28-88  
CHIEF, DIVISION OF COMMUNITY PLANNING & LAND DEVELOPMENT DATE