

CENTERLINE CURVE DATA

PC TO PT	RADIUS	DELTA	ARC	TANG.	CHD. BEARING
PC 0+00 TO PT 2+00	395.00	47°00'00"	202.66	172.9	N105°12'00"E
PC 2+00 TO PT 4+74.01	250.00	104°50'46"	86.60	43.74	N03°12'57"E
PC 4+74.01 TO PT 6+63.29	420.00	129°30'00"	216.25	110.58	N17°13'20"E
PC 6+63.29 TO PT 8+79.54	420.00	30°48'00"	118.26	60.60	S60°10'01"E
PC 8+79.54 TO PT 11+39.94	325.00	87°21'00"	108.76	65.41	N69°19'30"W
PC 11+39.94 TO PT 13+12.74	325.00	87°21'00"	108.76	65.41	108.24

Reviewed for **Howard** E.O.D.
and meets Technical Requirements
Signature _____ Date _____
U.S. Soil Conservation Service

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

Approved _____ Date _____

PLANT SCHEDULE

KEY	PLANT NAME	SIZE	QUANT.	REMARKS
(M)	Acer rubrum 'Sunset'	3/4" CAL. MIN.	32	B.F.B. HEAVY HEADS
(L)	Platanus acerifolia 'London Planetree'	"	28	"
(G)	Prunus Flanccensis 'Marshalls'	"	8	"

STREET TREE NOTES:

- Contractor shall verify location of underground utilities prior to digging.
- Final location of trees may be adjusted slightly to accommodate field conditions.
- Planting procedure shall comply with "Landscape Specs. for Baltimore-Washington Metropolitan Areas."
- Substitution of the approved 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 H.C. Subdivision Regulations.

DEVELOPER'S/BUILDER'S CERTIFICATE

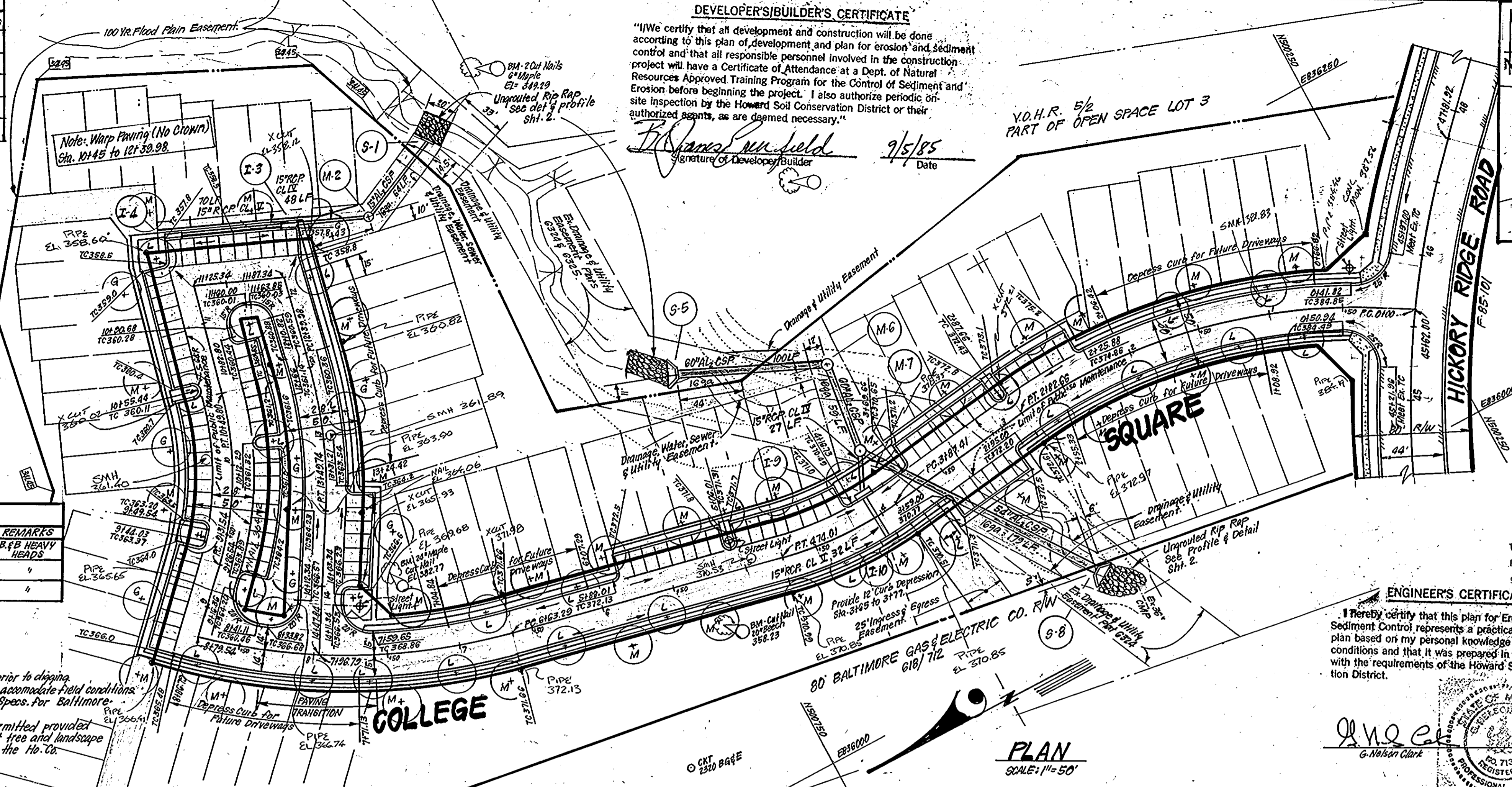
"I/we certify that all development and construction will be done according to this plan of development and plan for erosion and sediment control and that all responsible personnel involved in the construction project will have a Certificate of Attendance at a Dept. of Natural Resources Approved Training 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."

[Signature]
Signature of Developer/Builder
9/5/85
Date

GENERAL NOTES

- All storm drain paving shall be constructed in accordance with the latest edition and specifications of Howard County, MD SHA.
- Types of storm drainage refer to the Standard Details of H.C. & MD SHA.
- Trench compaction for storm drains within road or street right-of-way limits shall be in accordance with H.C. Design Manual, Vol. II, (Class C Trench Bedding) to be used for all storm drains except where shown otherwise.
- Information concerning underground utilities was obtained from available records, but the contractor must determine the exact location and elevation of mains by digging test pits, by hand, at all utility crossings, well in advance of construction.
- All utility companies shall be notified 24 hrs. in advance of construction.
- All tree stumps, stumps, and roots shall be removed in accordance with the "Manual of Uniform Practice Control, Revised Edition, 1978 Edition."
- Sag and Crest Vertical Curves were designated in accordance with H.C. Design Manual, Vol. II.
- Provide concrete sidewalk ramps. H.C. Std. Type A, R-4.01 where shown in plan.
- Design Speed: See table sheet 2, Zoning: N.T. - Single Family Attached.
- The contractor or developer shall contact the Construction Inspection/Survey Division 24 hrs. in advance of commencement of work. Phone: 773-2272.
- Street lights to be provided at locations shown in accordance with H.C. Design Manual, Vol. II. Light poles and fixtures to be as follows: (1) Sta. 0+14.22-250' Watt Mercury Vapor Lamp Pendant Mounted, Fixture on 30' Galvanized Steel Pole (2) Sta. 5+06.01-5+11.34-175 Watt Modern Post Top Fixture on 11' Fiberglass Pole.
- Storm Water Management provided in Central Facility in Village of Hickory Ridge, Section 5, Area 2, F-85-131.

VICINITY MAP
SCALE: 1"=200'



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."

[Signature]
G. Nelson Clark
Date 9-5-85

APPROVED: DEPARTMENT OF PUBLIC WORKS
[Signature]
Chief, Bureau of Engineering
APPROVED: HOWARD COUNTY OFFICE OF PLANNING & ZONING
[Signature]
Chief, Division of Land Development & Zoning Administration
10-21-85
Date

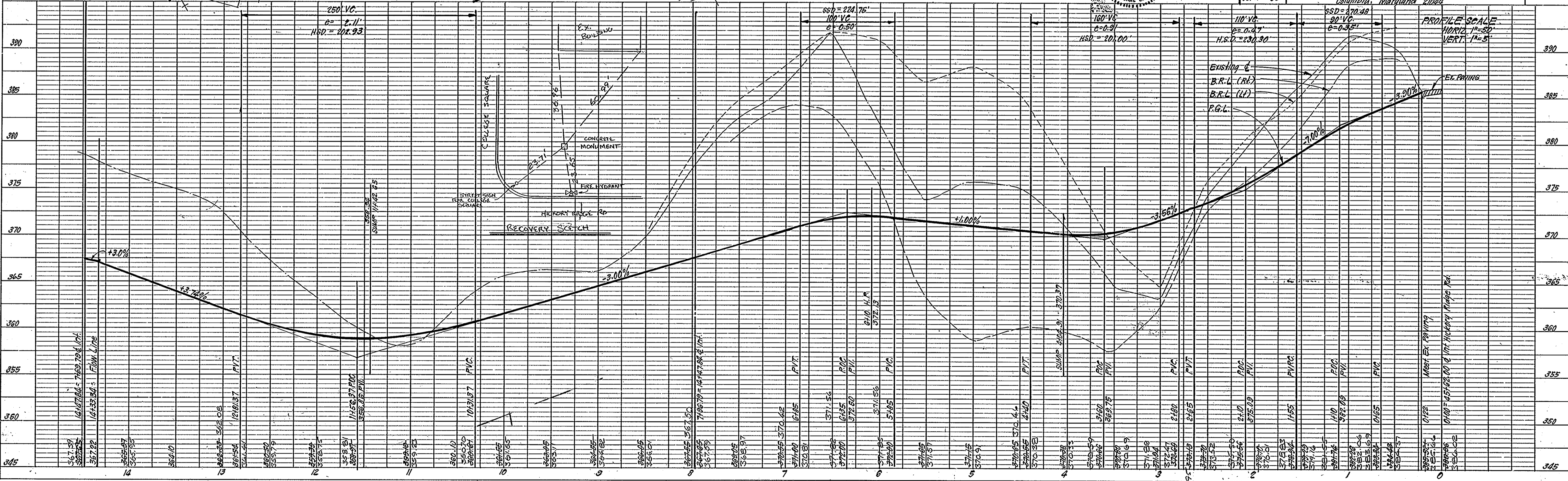
CLARK · FINEFROCK & SACKETT
ENGINEERS · PLANNERS · SURVEYORS
11315 LOCKWOOD DRIVE SILVER SPRING, MARYLAND 20904 (301) 593-3400

DESIGNED JLS
DRAWN R/W
CHECKED NS
DATE SEPT. 85

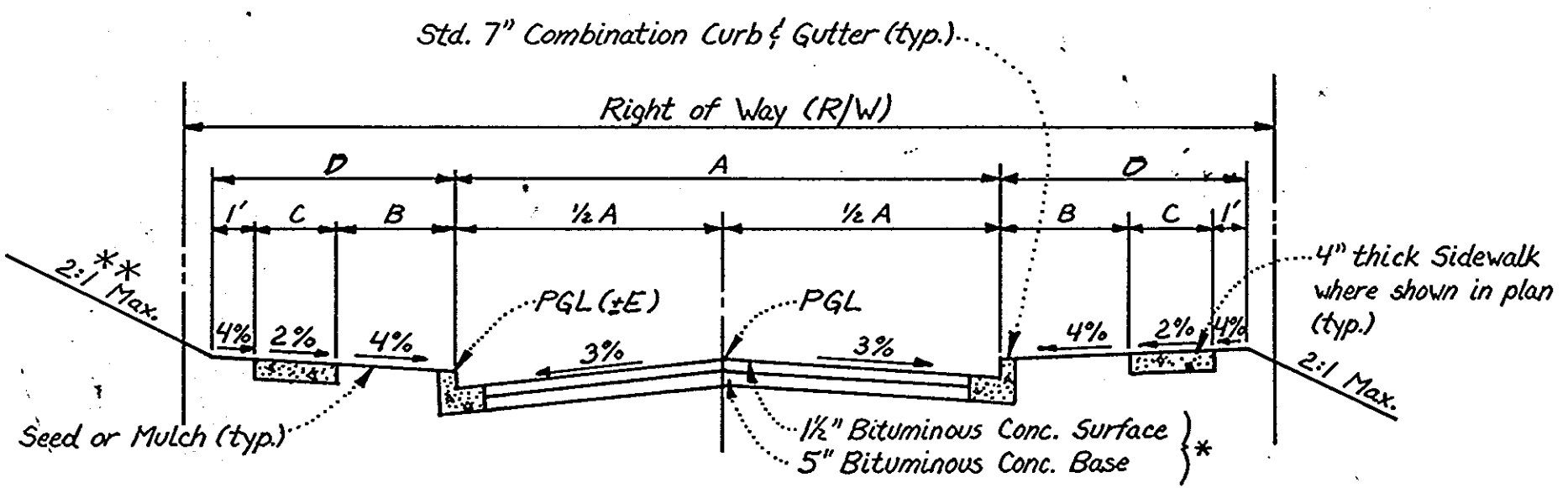
ROAD CONSTRUCTION PLANS
COLLEGE SQUARE
COLUMBIA
VILLAGE OF HICKORY RIDGE
SECTION 5
5TH ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

SCALE As Shown
DRAWING 10F4
JOB NO. 85-040
FILE NO. 85-040-D

FDR: COLUMBIA BUILDERS, INC
3 Lakefront North, Suite 200
Columbia, Maryland 21044



** 1:1 Max. where rock is encountered



TYPICAL PAVING SECTION - PUBLIC ROADS
NO SCALE

* For Alternate Paving Section - See det. this sht.

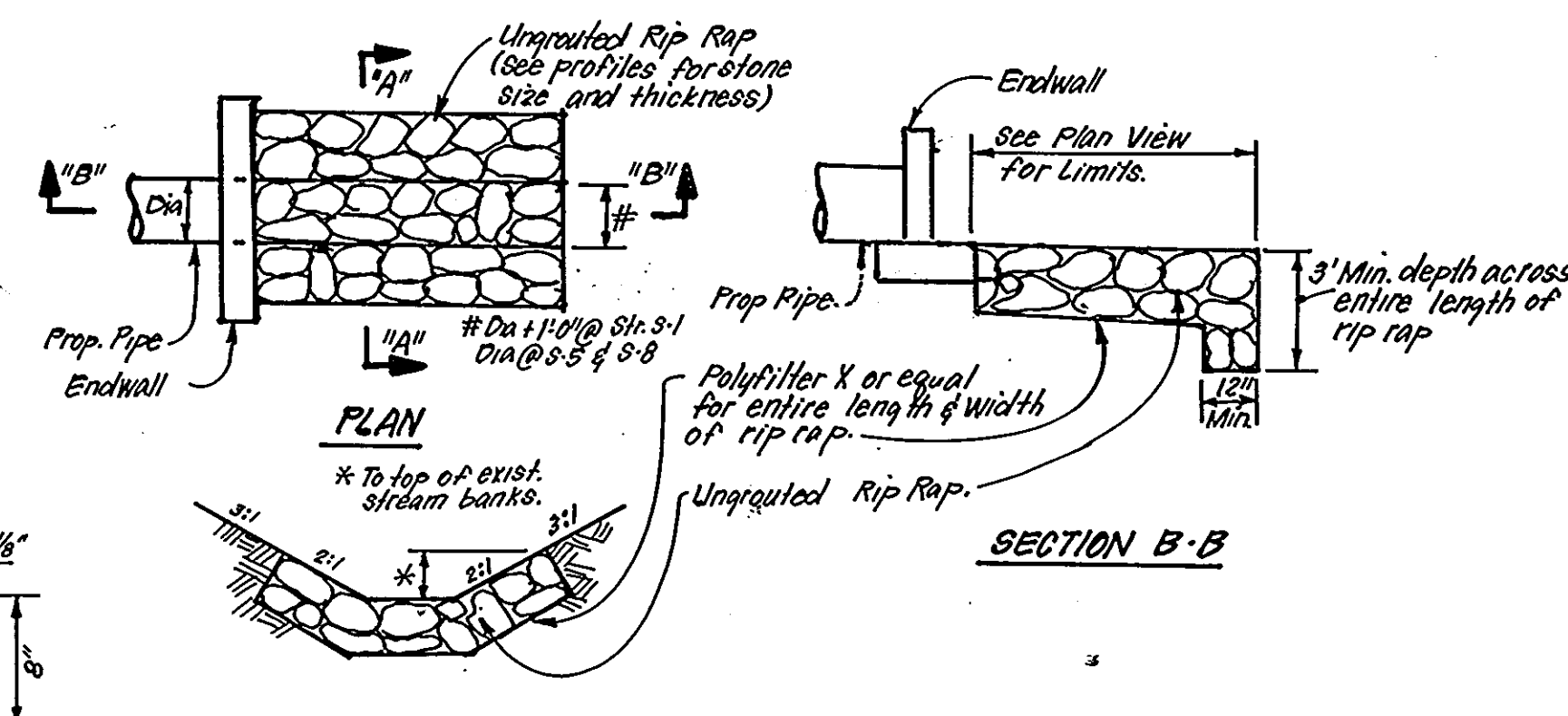
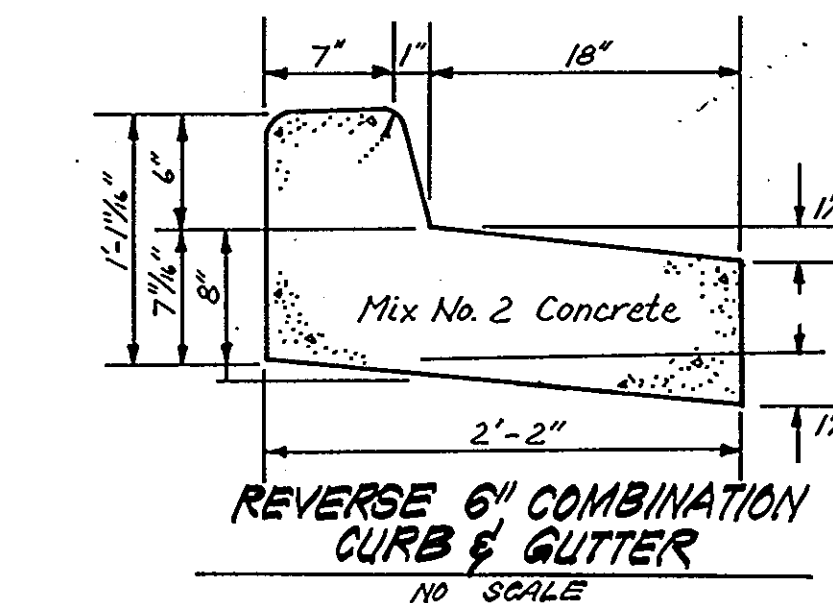
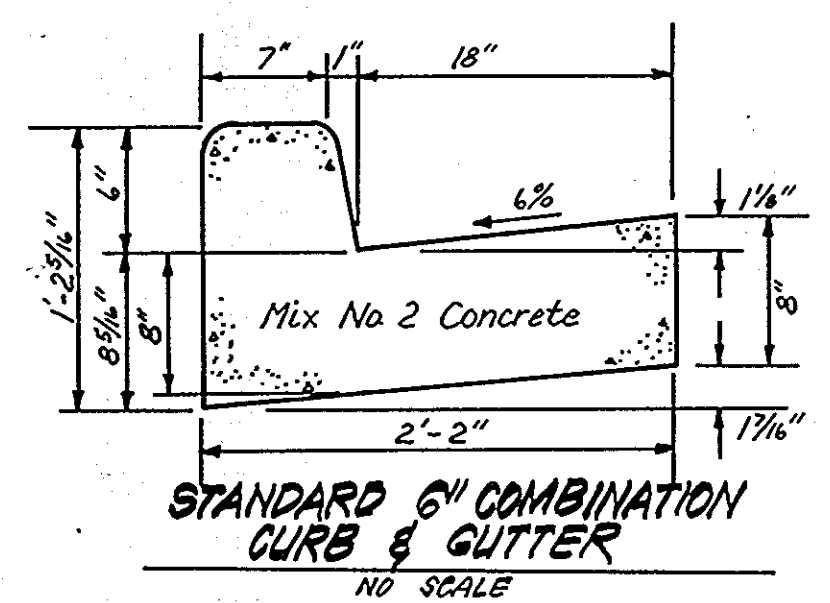
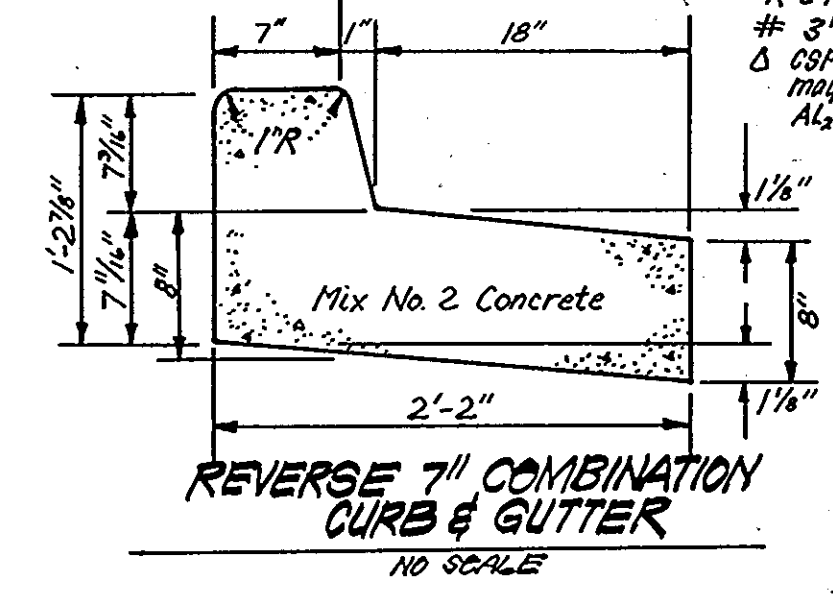
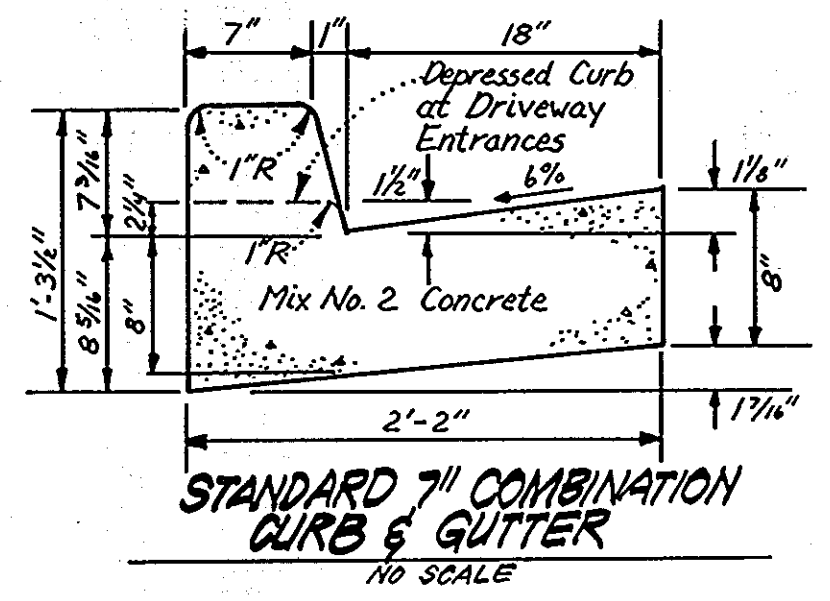
STREET NAME & STATION	TYPE OF TRAFFIC	A	B	C	D	R/W	ZONING	DESIGN SPEED	E
COLLEGE 0100+2725.88	LOCAL	30'	4'	4'	9'	50'	N.T.	30	10
SQUARE 51+00.01 to 81+39.82*									
COLLEGE 82+00.01 to 81+39.82*									
SQUARE 121+00.01 to 131+31.21	CUR. DE. SAC	28'	4'	4'	9'	50'	N.T.	30	14
SQUARE 131+03.34 to 141+47.84									

* Transition Paving Sta 1153.65 to 8133.82 - See Plan

No	TYPE	INV. IN	INV. OUT	TOP ELEVATION	REMARKS	LOCATION
S-1	C-End Wall	341.87	341.87		No. 20. Std. 6D 5.21	15" RCP
M-2	Brick Manhole	351.23	351.2	352.0 354.82	G-5.01	48" Rd.
I-3	A-10 Inlet	353.24	352.84	351.8	SD 4.02	W=2.6'
I-4	A-10 Inlet	354.0	354.0	351.8	SD 4.02	W=2.6'
S-5	A-End Wall	347.8	347.8		SD 5.11	60" Rd.
M-6	Brick Manhole	350.87	350.683	364.0	G-5.03	60" Rd.
M-7	Brick Manhole	352.7	352.56	371.5 371.2	G-5.03	60" Rd.
S-8	A-End Wall	360.0	361.06		SD 5.11	54" Rd.
I-9	A-10 Inlet	365.7	366.282	370.47 370.54	SD 4.02	W=2.6'
I-10	A-10 Inlet	366.9	366.92	370.47 370.54	SD 4.02	W=2.6'

All inverts to be fully developed.

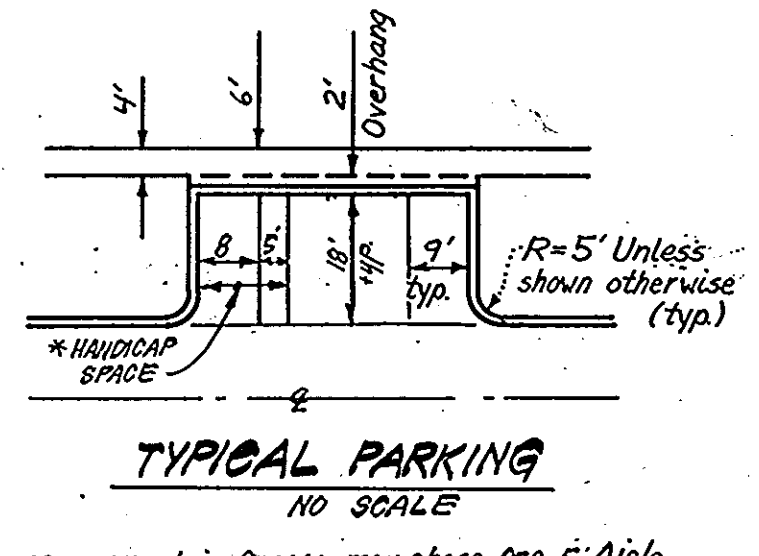
SIZE	TYPE	LENGTH
15"	RCP CL IV	102 LF
15"	RCP CL IV	75 LF
15"	AL CSP 10.92	64 LF
54"	AL CSP 10.92	179 LF
60"	AL CSP 10.92	152 LF



SECTION A-A
SECTION B-B
UNGRAUTED RIPRAP PAVING DETAILS
NO SCALE

Reviewed for: Howard R.C.D. Name: [Signature] Date: 10-18-85 U.S. Soil Conservation Service

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



TYPICAL PARKING
NO SCALE

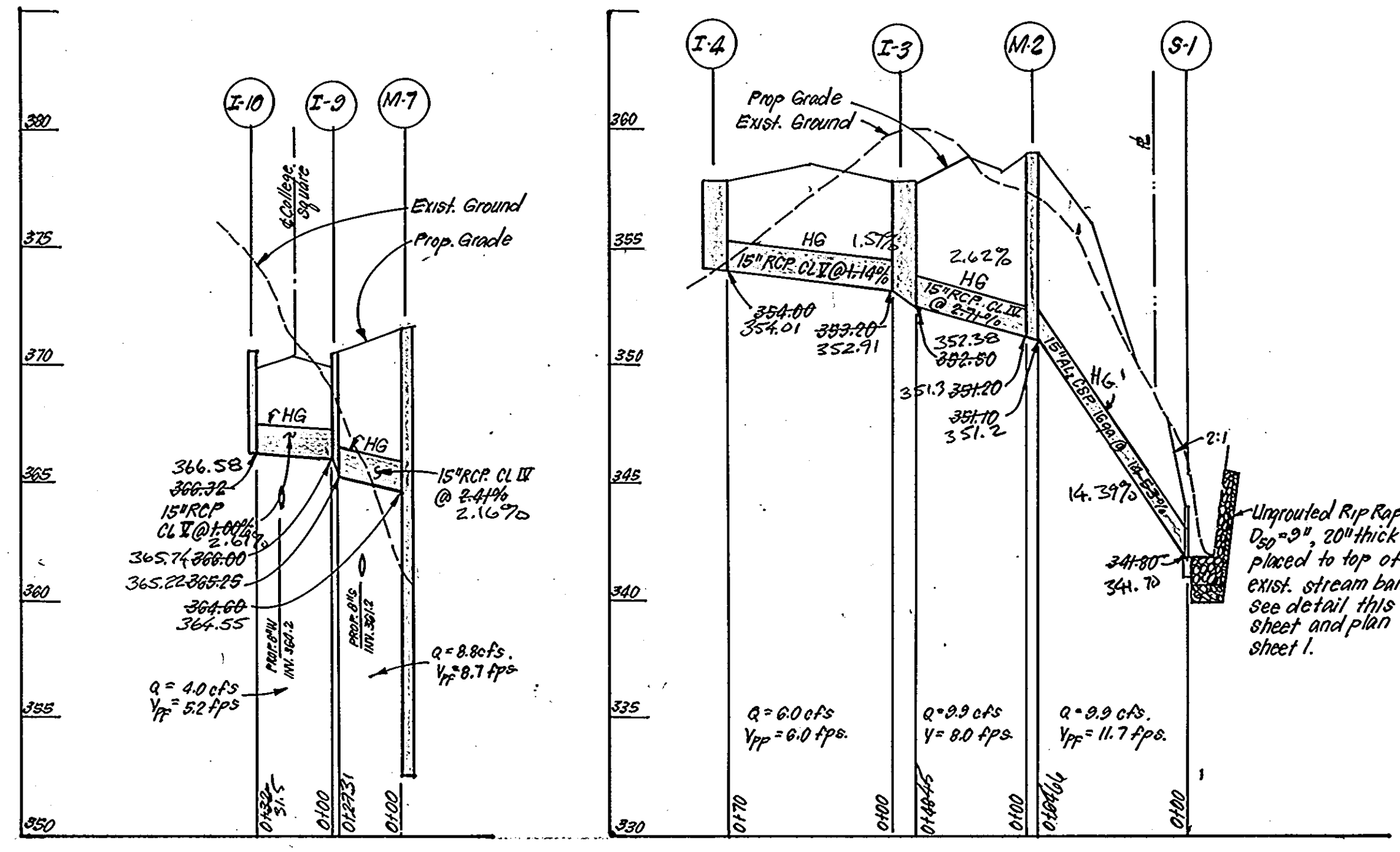
Two 8' Handicap Spaces may share One 6' Aisle

Bituminous Conc. Surface	1 1/2"
Bituminous Conc. Base	2 1/2"
Prime	8" or 6"
3" Crusher Run Base (Placed in 2 Courses) or 4" Dense Graded Stabilized Aggregate Base Course	8" or 6"

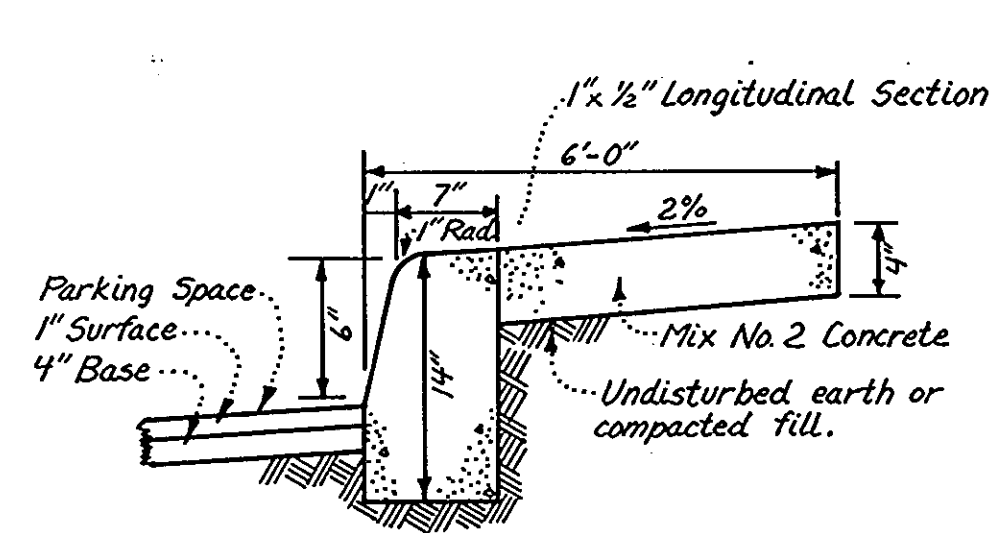
ALTERNATE PAVING SECTION FOR PUBLIC ROADS (SECTION P-2)
NO SCALE

Bituminous Conc. Surface	1"
Bituminous Conc. Base	2"
Prime	5" or 4"
5" Crusher Run Base Course or 4" Dense Graded Stabilized Aggregate Base Course	5" or 4"

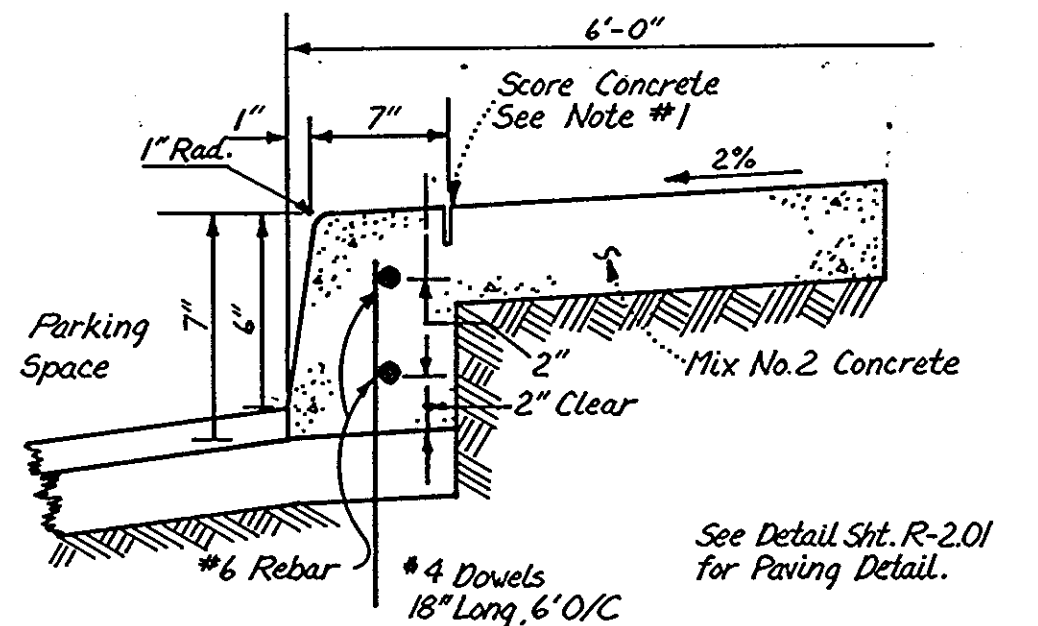
ALTERNATE PAVING SECTION FOR PARKING AREAS (SECTION P-1)
NO SCALE



STORM DRAINAGE PROFILES
SCALE: HORIZ. 1"=50' VERT. 1"=5'



MONOLITHIC CURB & SIDEWALK - PRIVATE PARKING AREA
NO SCALE



ALTERNATE SECTION
NO SCALE

Notes:
1. Longitudinal Joint between sidewalk & curb shall be continuous and to a depth of 1/4 the thickness of the sidewalk or 1" longitudinal joints shall run from back edge of sidewalk continuous to the bottom face of curb to a depth of 1/4 the sidewalk thickness or 1" and spaced 5' apart.
2. Provide 1/2" expansion joints at 15' intervals. In longitudinal joints to full cross-section.

Note: Monolithic curb and sidewalk can be used as an alternate to reverse 6" curb & gutter where curb is adjacent to sidewalk.

See Detail Sht. R-201 For Paving Detail.

No.	REVISION	DATE
1.	Added Note to Typical Paving Section	11-26-85

APPROVED: DEPARTMENT OF PUBLIC WORKS
[Signature] 10-23-85
Chief Bureau of Engineering
APPROVED: HOWARD COUNTY OFFICE OF PLANNING & ZONING
[Signature] 10-21-85
Chief, Division of Land Development & Zoning Administration

CLARK · FINEFROCK & SACKETT
ENGINEERS · PLANNERS · SURVEYORS
11315 LOCKWOOD DRIVE SILVER SPRING, MARYLAND 20904 (301) 593-3400

DESIGNED	JLS	SCALE	AS SHOWN
DRAWN	KIW	DRAWING	2 OF 4
CHECKED	JLS	JOB NO.	85-000
DATE	9-5-85	FILE NO.	85-040-D
	SEPT. 85		

ROAD CONSTRUCTION PLANS
STORM DRAIN AND PAVING DETAILS
COLUMBIA
VILLAGE OF HICKORY RIDGE
SECTION 5 AREA 2
5TH ELECTION DISTRICT
HOWARD COUNTY, MARYLAND
FOR: COLUMBIA BUILDERS, INC.
3 Lakefront North, Suite 200
Columbia, Md. 21044

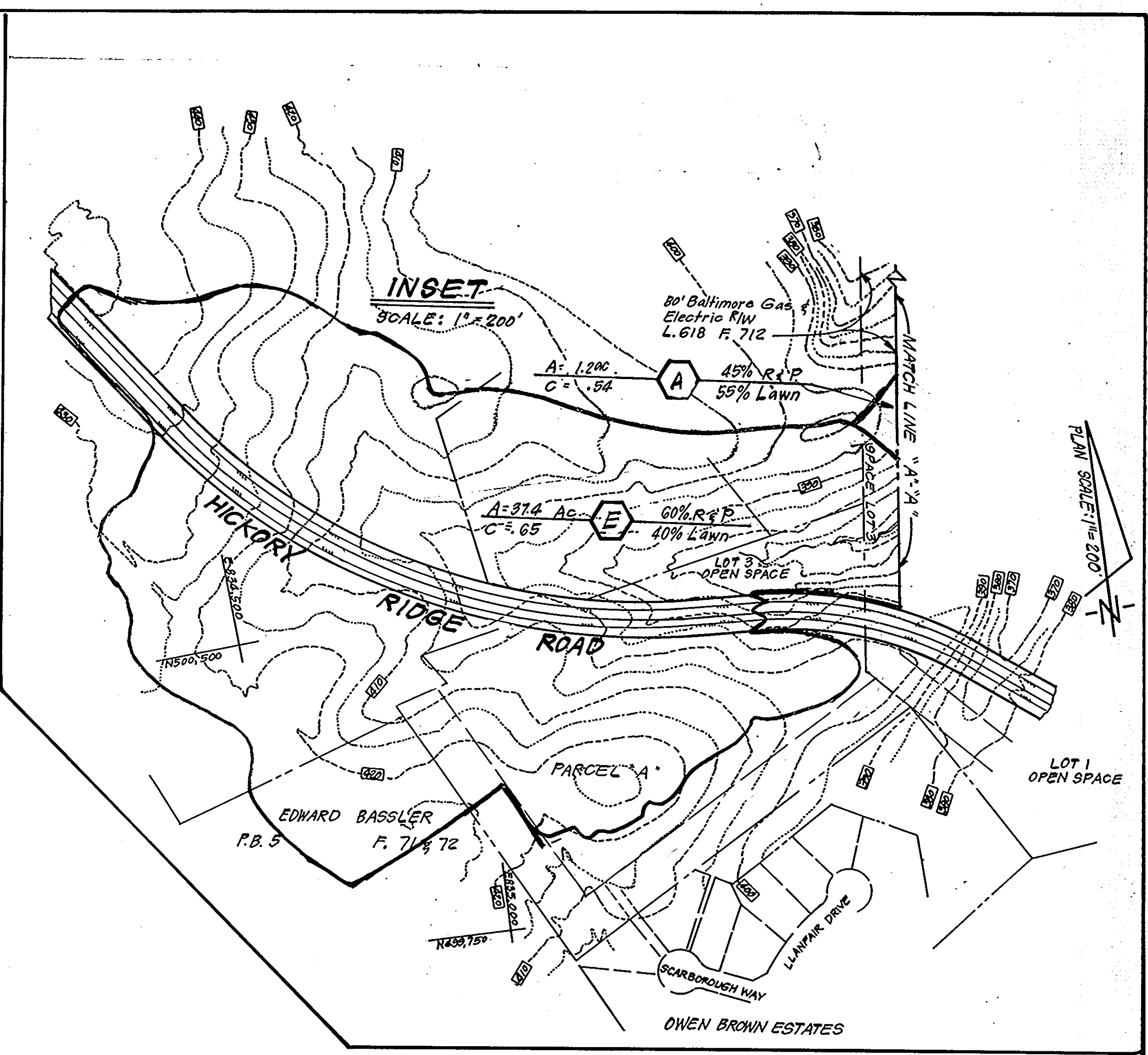
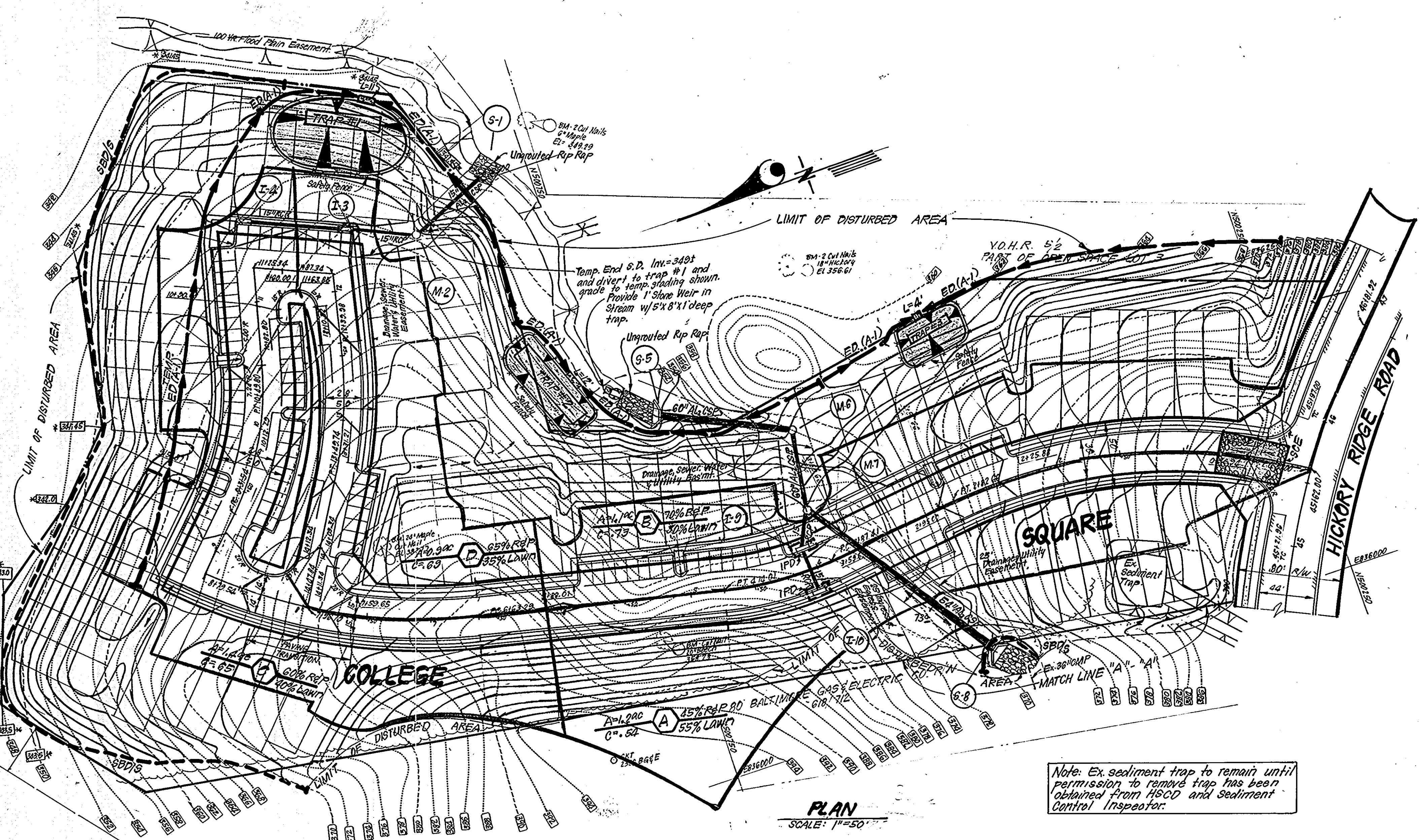
DEVELOPER'S/BUILDER'S CERTIFICATE
"I/We certify that all development and construction will be done according to this plan of development and plan for erosion and sediment control and that all responsible personnel involved in the construction project will have a Certificate of Attendance at a Dept. of 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."
[Signature] 9/5/85 Date

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"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."
[Signature] 9-5-85 Date

TRAP #1 SOST (SPV)
 D.A. = 2.6 Acres
 Storage Required = 2.6(1800) = 4680 cf
 Storage Provided = 4680 cf
 Depth = 4'
 Top of Stone Crest = 345.0
 Bottom Elev. = 340.0
 Bottom Dimensions = 57'x10'
 Clean Out Elev. = 342.0

TRAP #2 SOST (SPV)
 D.A. = 0.8 Acres
 Storage Required = 0.8(1800) = 1440 cf
 Storage Provided = 1440 cf
 Depth = 3'
 Top of Stone Crest = 352.0
 Bottom Elev. = 350.0
 Bottom Dimensions = 34'x6'
 Clean Out Elev. = 350.5

TRAP #3 SOST (SPV) *
 D.A. = 3.0 Acres
 Storage Required = 3.0(1800) = 5400 cf
 Storage Provided = 5400 cf
 Depth = 4'
 Top of Stone Crest = 354.0
 Bottom Elevation = 349.0
 Bottom Dimensions = 71'x14'
 Clean Out Elev. = 351.0
 * 1:1 slopes in cut.



PLAN
 SCALE: 1"=50'

Note: Ex. sediment trap to remain until permission to remove trap has been obtained from HSCD and Sediment Control Inspector.

NOTE: EXTERIOR SLOPES TO BE SEED AND MULCHED WITHIN 7 DAYS OF CONSTRUCTION.

CONSTRUCTION SEQUENCE:

No. of Days	Description
2	1. Obtain Grading Permit.
7	2. Construct S.C.E., construct trap in stream below Str. S-5, and construct S.D. Str. S-8 thru S-5.
21	3. Construct remaining sediment & erosion control measures.
30	* 4. Clear & Rough Grade site.
12	5. Construct remainder of storm drainage. Temp. end 15" AL CSP between Str. M-2 and S-1 as shown in plan and divert to trap #1 and install I.R.D.
60	6. Construct Utilities.
60	7. Fine Grade & Construct Paving.
21	8. Stabilize all disturbed areas on site in accordance with Stals & Specs.
14	9. Upon approval of HSCD and the sediment control inspector, remove sediment & erosion control measures & stabilize.
2	10. Construct remaining storm drainage M-2 to S-1 and stabilize. Install SBD/S as necessary.

* Remove Temp. E.D. after drainage to trap #1 has been established.

LEGEND:

- 1. Contour Interval 2 FT. / 670
- 2. Existing Contour 370
- 3. Proposed Storm Drain
- 4. Proposed Storm Drain
- 5. Temporary Grading E.P. (A-1)
- 6. Earth Dike SBD/S
- 7. Straw Bale Dike or Silt Fence
- 8. Stabilized Construction Entrance SCE
- 9. Inlet Protection I.P.D.

Reviewed for: Howard S.C.D.
 Name
 and meets Technical Requirements
 Signature [Signature] Date 10/18/85
 U.S. Soil Conservation Service

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

Stephen L. Felix 10/18/85
 Approved Date

DEVELOPER'S/BUILDER'S CERTIFICATE

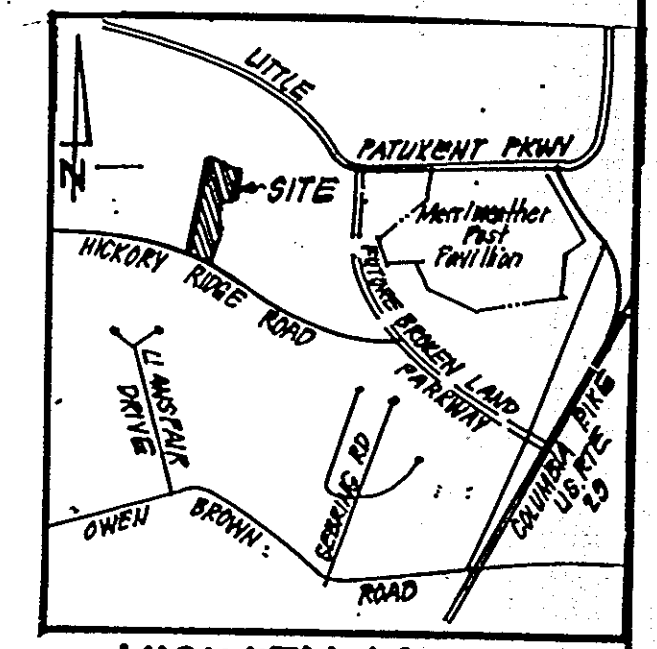
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[Signature] 9/5/85
 Signature of Developer/Builder Date

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[Signature] 9-5-85
 G. Nelson Clark Date



VICINITY MAP
 SCALE: 1"=2000'

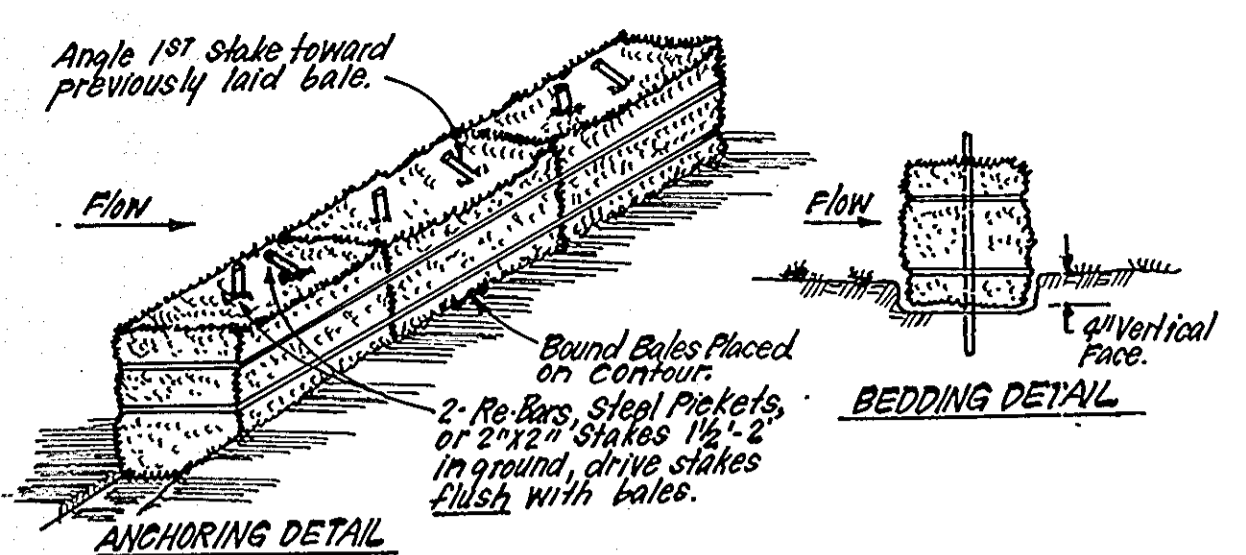
APPROVED: DEPARTMENT OF PUBLIC WORKS
[Signature] 10-22-85
 Chief, Bureau of Engineering Date

APPROVED: HOWARD COUNTY OFFICE OF PLANNING & ZONING
[Signature] 10-21-85
 Chief, Division of Land Development & Zoning Administration Date

CLARK · FINEFROCK & SACKETT
 ENGINEERS · PLANNERS · SURVEYORS
 11315 LOCKWOOD DRIVE SILVER SPRING, MARYLAND 20904 (301) 593-3400

DESIGNED	JLS	SCALE	As Shown
DRAWN	JLS	DRAWING	3 OF 4
CHECKED	JLS	JOB NO.	85-040
DATE	SEPT. 85	FILE NO.	85-040-D

FOR: COLUMBIA BUILDERS, INC.
 3 Lakefront North, Suite 800
 Columbia, Maryland 21044

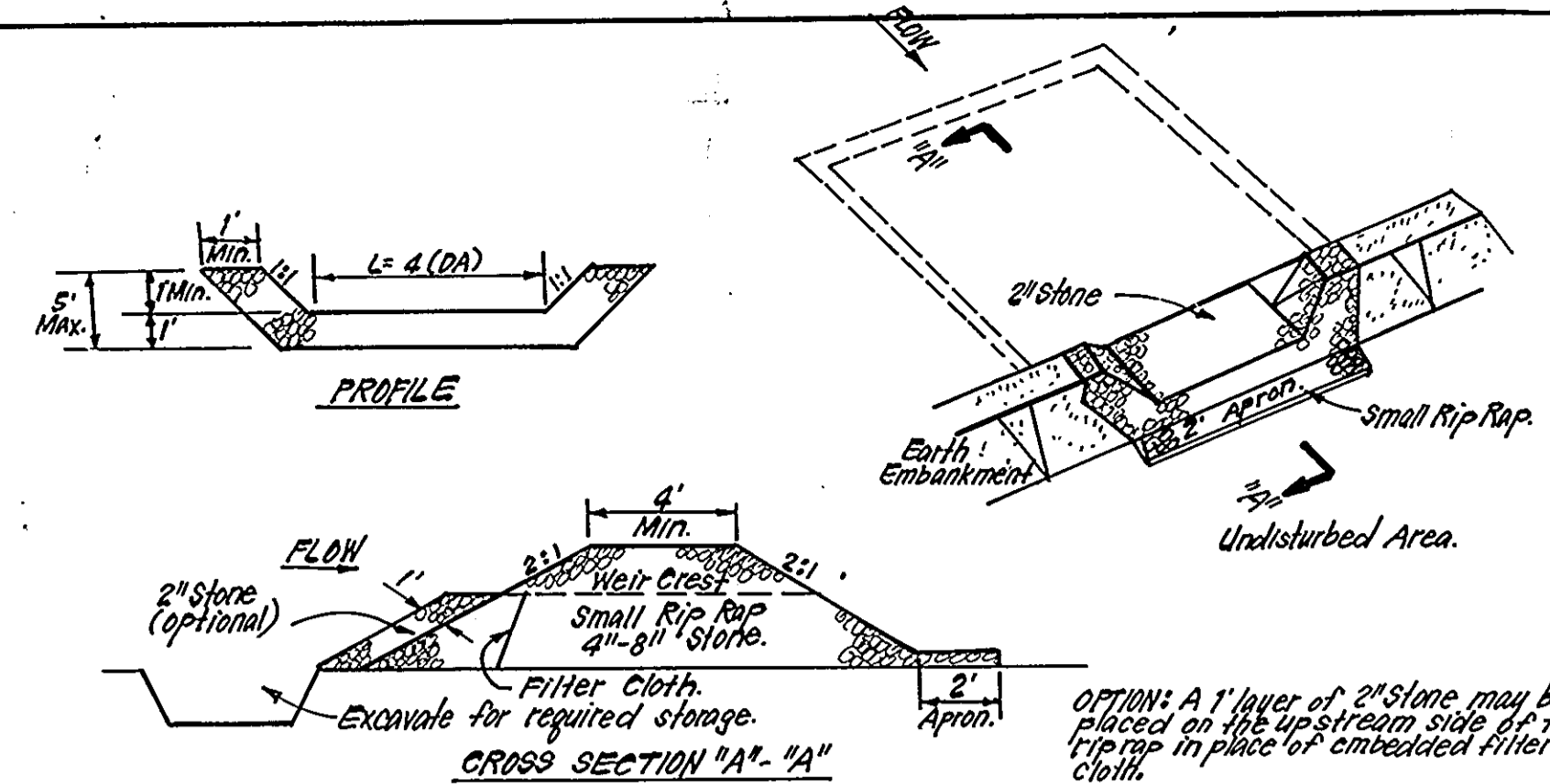


CONSTRUCTION SPECIFICATIONS:

- Bales shall be placed at the top of a slope or on the contour and in a row with ends tightly abutting the adjacent bales.
- Each bale shall be embedded in the soil a min. of 4" and placed so the bindings are horizontal.
- Bales shall be securely anchored in place by either 2 stakes or re-bars driven thru the bale. The 1st stake in each bale shall be driven forward of the previously laid bale at an angle to force the bales together. Stakes shall be driven flush with the bale.
- Inspection shall be frequent and repair replacement shall be made promptly as needed.
- Bales shall be removed when they have served their usefulness so as not to block or impede storm flow or drainage.

STRAW BALE DIKE DETAIL (SBD)

NO SCALE

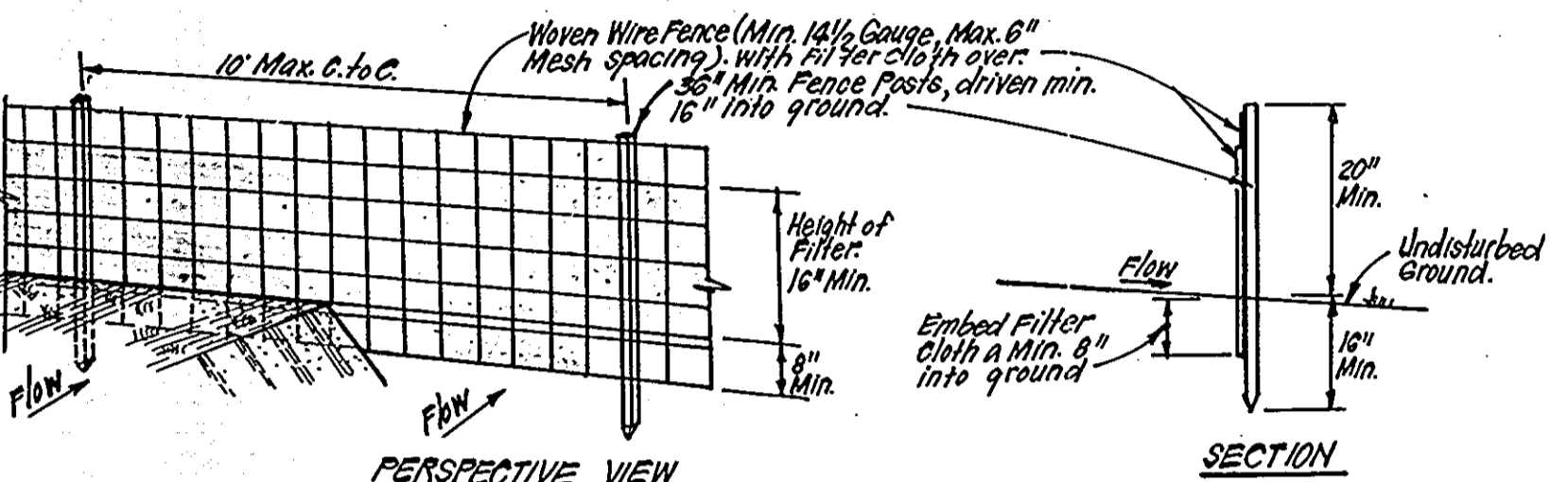


CONSTRUCTION SPECIFICATIONS:

- Area under embankment shall be cleared, grubbed and stripped of any vegetation and root mat. The soil area shall be cleared.
- The fill material for the embankment shall be free of roots and 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.
- All cut and fill slopes shall be 2:1 or flatter.
- The stone used in the outlet shall be small rip rap 4"-8" along with 1" thickness of 2" aggregate placed on the up-grade side on the small rip rap or embedded filter cloth in the rip rap.
- 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.
- The structure shall be inspected after each rain and repairs made as needed.
- The structure operations shall be carried out in such a manner that erosion and water pollution is minimized.
- The structure shall be removed and the area stabilized when the drainage area has been properly stabilized.

STONE OUTLET SEDIMENT TRAP (S.O.ST.) ST.V.

NO SCALE



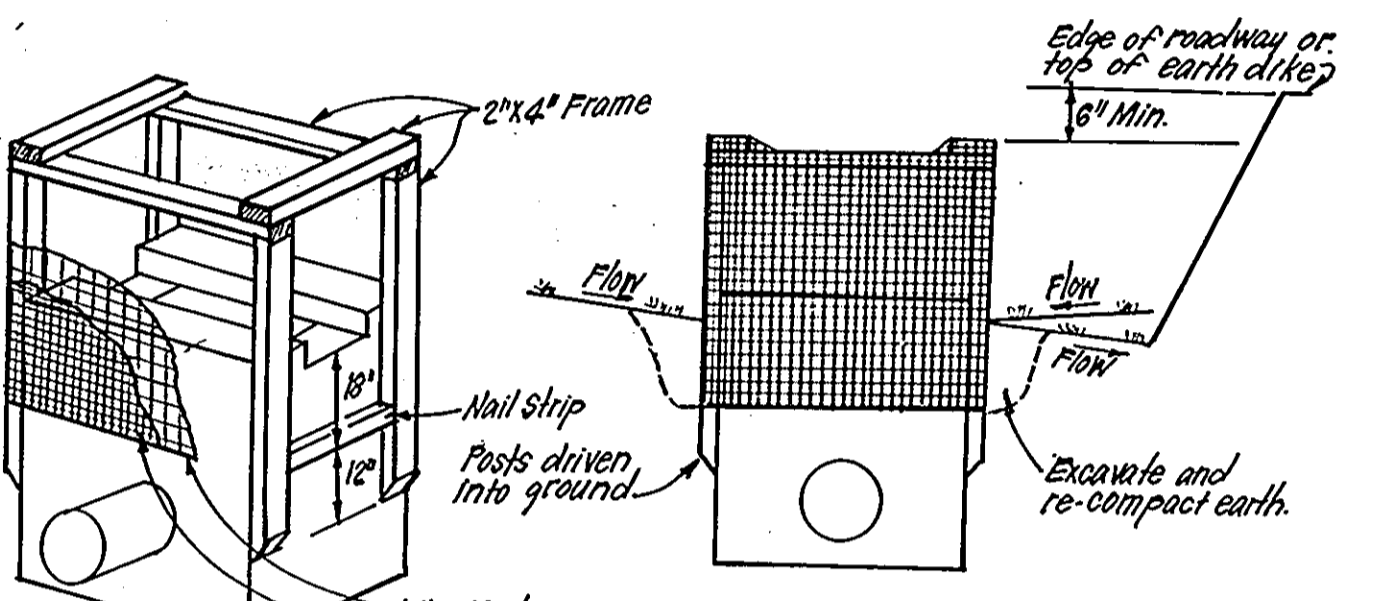
CONSTRUCTION SPECIFICATIONS:

- Woven wire fence to be fastened securely to fence posts with wire ties or staples.
- Filter cloth to be fastened securely to woven wire fence with ties spaced every 24" at top and mid section.
- When 2 sections of filter cloth adjoin each other they shall be overlapped 6" and stapled.
- Maintenance shall be performed as needed and material removed when "blowups" develop in silt fence.

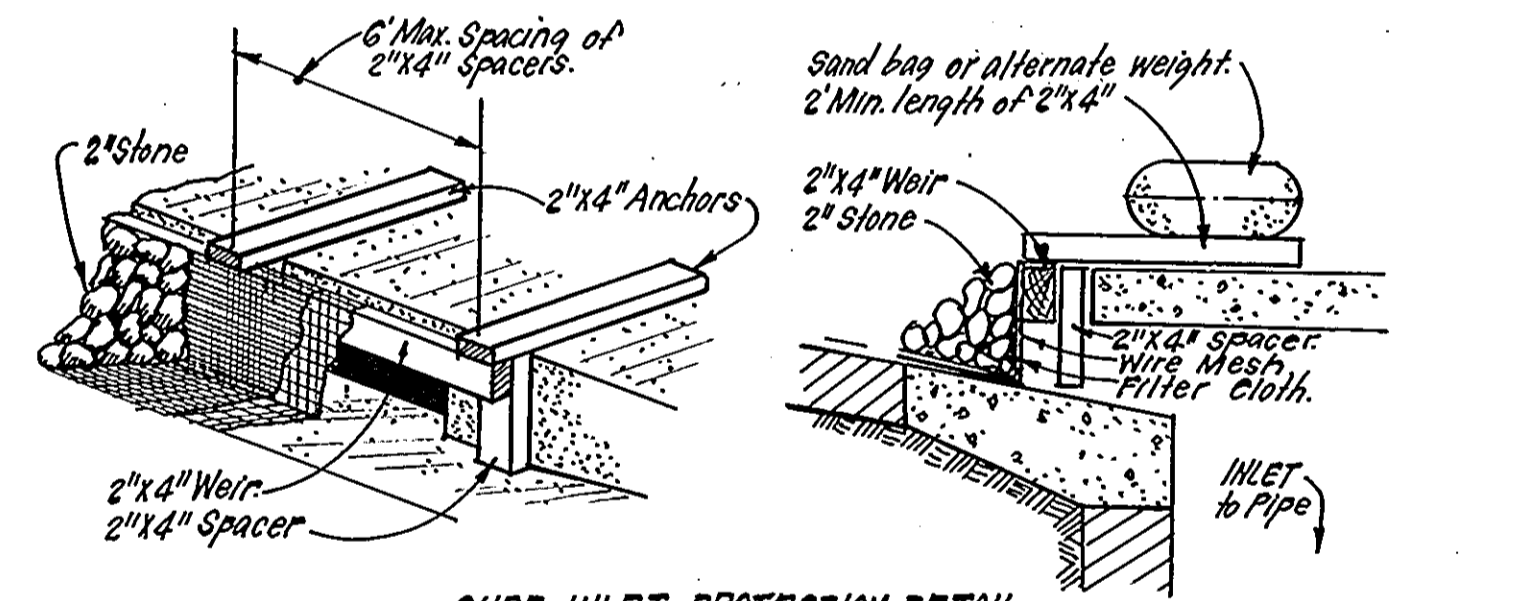
POST-Steel either T or U Type or 2" Hardwood.
 FENCE: Woven Wire, 1 1/2 Gauge, 6" Max. Mesh Opening.
 FILTER CLOTH: Filter Cloth, Mirafix 100X, Stablinter, T140N or Approx. equal.
 PREFABRICATED UNIT: Geofab, Envirofence, or Approx. equal.

SILT FENCE DETAIL (S)

NO SCALE



SWALE INLET PROTECTION DETAIL



CURB INLET PROTECTION DETAIL

CONSTRUCTION SPECIFICATIONS:

- MATERIALS:**
 - Wooden frame is to be constructed of 2"x4" construction grade lumber.
 - Wire mesh must be of sufficient strength to support 100 lbs. of stone and stone for curb inlets, with water fully impounded against it.
 - Filter cloth must be of a type approved for this purpose; resistant to sunlight with sieve size, EDS-45-85, to allow sufficient passage of water and removal of sediment.
 - Stone is to be 2" in size and clean, since fines would clog the cloth.
- PROCEDURE:**
 - SWALE DITCHLINE OR VALE INLET PROTECTION**
 - Excavate completely around inlet to a depth of 18" below notch elevation.
 - Drive 2x4 post 1" into ground at four corners of inlet. Place nail/strips between posts on ends of inlet. Assemble top portion of 2x4 frame using over the joint shown. Top of frame (weir) must be 6" below edge of roadway adjacent to inlet.
 - Stretch wire mesh tightly around frame and fasten securely. Ends must meet at post.
 - Stretch filter cloth tightly over wire mesh. The cloth must extend from top of frame to 18" below notch elev. Fasten securely to frame. Ends must meet at post.
 - Back fill around inlet in compacted 6" layers until layer of earth is even with notch elevation on ends and top elevation on sides.
 - If the inlet is not in a low point, construct compacted earthen dike in the ditch line below the top of this earth dike to be at least 6" higher than the top of frame (weir).
 - The structure must be inspected frequently and filter fabric replaced when clogged.
 - PROCEDURE: CURB INLET PROTECTION**
 - Attach a continuous piece of wire mesh (30" min. width by throat length plus 4") to the 2x4" weir (measuring throat length plus 2" as shown on std. drawing).
 - Place a piece of approved filter cloth (40-85 sieve) of the same dimensions as the wire mesh over the wire mesh and securely attach to the 2x4" weir.
 - Securely nail the 2x4" weir to 3" long vertical spacers to be located between the weir and inlet face (max 6" apart).
 - Place the assembly against the inlet throat and nail (min. 2" lengths of 2x4" to the top of the weir at spacer locations. These 2x4" anchors shall extend across the inlet top and be held in place by sandbags or alternate weight.
 - The assembly shall be placed so that the end spacers are a min. 1" beyond both ends of throat opening.
 - From the wire mesh and 1" filter cloth to the concrete outlet and against the face of curb on both sides of the inlet. Place clean 2" stone over the wire mesh and filter fabric in such a manner as to prevent water from entering the inlet under or around the filter cloth.
 - This type of protection must be inspected frequently and the filter cloth and stone replaced when clogged with sediment.
 - Assure that storm flow does not bypass inlet by installing temporary earth or asphalt dikes directing flow to inlet.

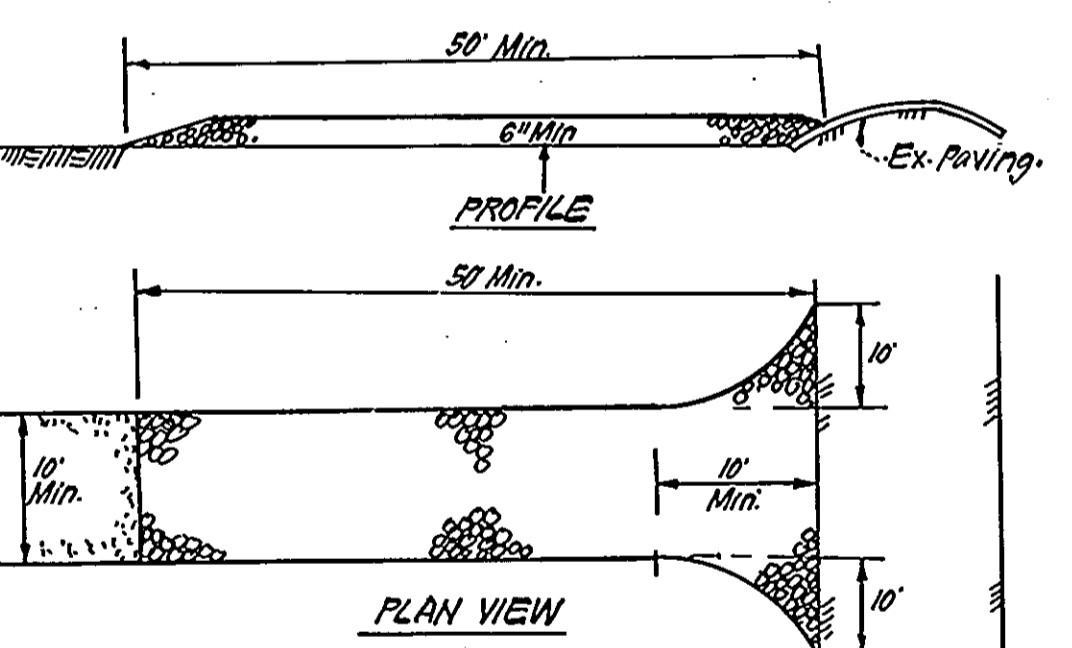
INLET PROTECTION DETAIL (I.P.D.)

NO SCALE

SEDIMENT CONTROL NOTES

- 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)
- All vegetative and structural practices are to be installed according to the provisions of this plan and are to be in conformance with the 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL.
- Following initial soil disturbance or redisturbance, permanent or temporary stabilization shall be completed within: a) 7 calendar days for all perimeter sediment control structures, dikes, perimeter slopes and all slopes greater than 3:1, b) 14 days as to all other disturbed or graded areas on the project site.
- All sediment 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 for permanent seedings (Sec. 51) sod (Sec. 54), 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	7256 Acres
Area Disturbed	7602 Acres
Area to be roofed or paved	1600 Acres
Area to be vegetatively stabilized	6,020 Acres
Total Cut	33,810 Cu. yds
Total Fill	23,840 Cu. yds
Offsite waste/borrow area location	N/A
- Any sediment control practice which is disturbed by grading activity for placement of utilities must be repaired on the same day of disturbance.
- Additional sediment 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 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.
- If houses are to be constructed on an "As-Sold" basis, at random, Single Lot 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/silt fence equals 205 L.F.



CONSTRUCTION SPECIFICATIONS:

- Stone Size - Use 2" Stone, or reclaimed or recycled concrete equivalent.
- Lengths - As required, but not less than 50 feet (except on a single residence lot where a 20' min. length would apply).
- Thickness - Not less than 6".
- Width - Ten foot min, but not less than the full width at point where ingress begins.
- Filter cloth - Will be placed over the entire area prior to laying 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.
- 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 cleanout of any measures used to trap sediment. All sediment spilled, 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. When washing is required, it shall be done on an area stabilized with stone and which drains into an approved sediment trapping device.
- Periodic inspection and needed maintenance shall be provided after each rain.

STABILIZED CONSTRUCTION ENTRANCE (S.C.E.)

NO SCALE

DEVELOPER'S/BUILDER'S CERTIFICATE

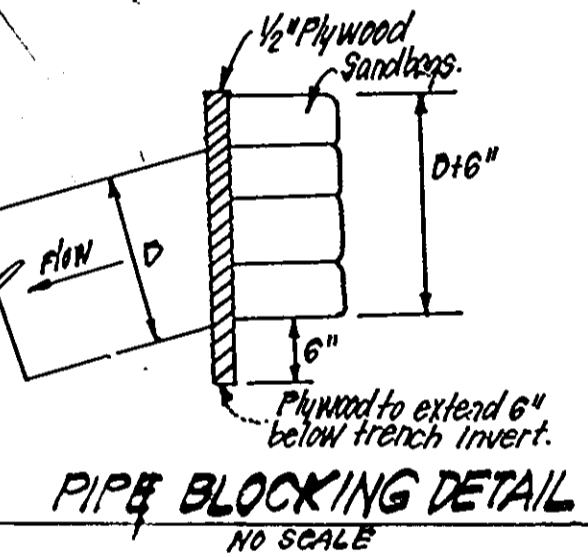
"I/We certify that all development and construction will be done according to this plan of development and plan for erosion and sediment control and that all responsible personnel involved in the construction project will have a Certificate of Attendance at a Dept. of Natural Resources Approved Training Program for the Control of Sediment and Erosion before beginning the project. I also authorize periodic on-site inspection by the Howard County Conservation District or their authorized agents, as are deemed necessary."

B. James
 Signature of Developer/Builder
 7/5/85
 Date

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."

G. Nelson
 Signature of Engineer
 7-5-85
 Date



PIPE BLOCKING DETAIL

NO SCALE

FLOW CHANNEL STABILIZATION

TYPE OF TREATMENT	CHANNEL GRADE	DIKE A	DIKE B
1	0.5-3.0%	Seed & Straw Mulch	Seed or Straw Mulch
2	3.1-6.0%	Seed & Straw Mulch	Seed w/straw, or Excelsior's Sod, 2" Stone
3	6.1-10.0%	Seed w/straw, or sod; 2" Stone	Lined Rip Rap 4"-8" Stone
4	10.1-20.0%	Lined Rip Rap 4"-8" Stone	Engineering Design

A. Stone to be 2" Stone, or recycled concrete equivalent, in a layer at least 3" thick and be pressed into soil with construction equipment.
 B. Rip Rap to be 4"-8" in a layer of least 8" thick, pressed into soil.
 C. Approved equivalents can be substituted for any of the above materials.

EARTH DIKE DETAIL (E.D.)

NO SCALE

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

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

Stephen L. Fula
 Approved
 10/24/85
 Date

APPROVED: DEPARTMENT OF PUBLIC WORKS
[Signature]
 Chief, Bureau of Engineering
 Date 10-23-85

APPROVED: HOWARD COUNTY OFFICE OF PLANNING & ZONING
[Signature]
 Chief, Division of Land Development & Zoning Administration
 Date 10-21-85

CLARK · FINEFROCK & SACKETT
 ENGINEERS · PLANNERS · SURVEYORS
 11315 LOCKWOOD DRIVE SILVER SPRING, MARYLAND 20904 (301) 593-3400

DESIGNED JLS	ROAD CONSTRUCTION PLANS SEDIMENT & EROSION CONTROL DETAILS	SCALE As shown
DRAWN R/W		DRAWING 4044
CHECKED JLS		JOB NO. 85-000
DATE SEPT. 85		FILE NO. 85-040-D

COLUMBIA
 VILLAGE OF HICKORY RIDGE
 SECTION 5
 5TH ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND
 FOR: COLUMBIA BUILDERS, INC
 3 Lakefront North, Suite 200
 Columbia, Maryland 21046

F-86-39