

GENERAL NOTES

- All storm drain and paving shall be constructed in accordance with the latest Details and Specifications of Howard County and MDSA.
- Types of storm drainage structures refer to the Sids. & Specs. of Ho. Co. and MDSA.
- Trench compaction for storm drains within road or street rights-of-way limits shall be in accordance with Howard County Design Manual, Vol. IX, Class C trench bedding to be used for all storm drain, unless shown otherwise, see det. sheet.
- 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.
- All utility companies shall be notified 24 hrs in advance of construction.
- All traffic control devices, painting and signing to be done in accordance with the "Manual of Uniform Traffic Control Devices," 1978 Edition.
- Sag and Crest Vertical curves were designed in accordance with Howard County Design Manual, Vol. III.
- Provide Concrete sidewalk ramps, Ho. Co. Sid. Type A, R-4.01 where shown in plan.
- Design Speed: 30 mph. Zoning: R-3C.
- Contractor or Developer shall contact the Construction Inspection/Survey Division 24 hrs before commencing work at 792-7272.
- Storm Water Management is provided by a central facility in Dorsey Hall, 2/1 F-85-16.

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. I/We certify that we are beginning the project. I also authorize periodic on-site inspection by the Howard Soil Conservation District or their authorized agents, as may be deemed necessary."

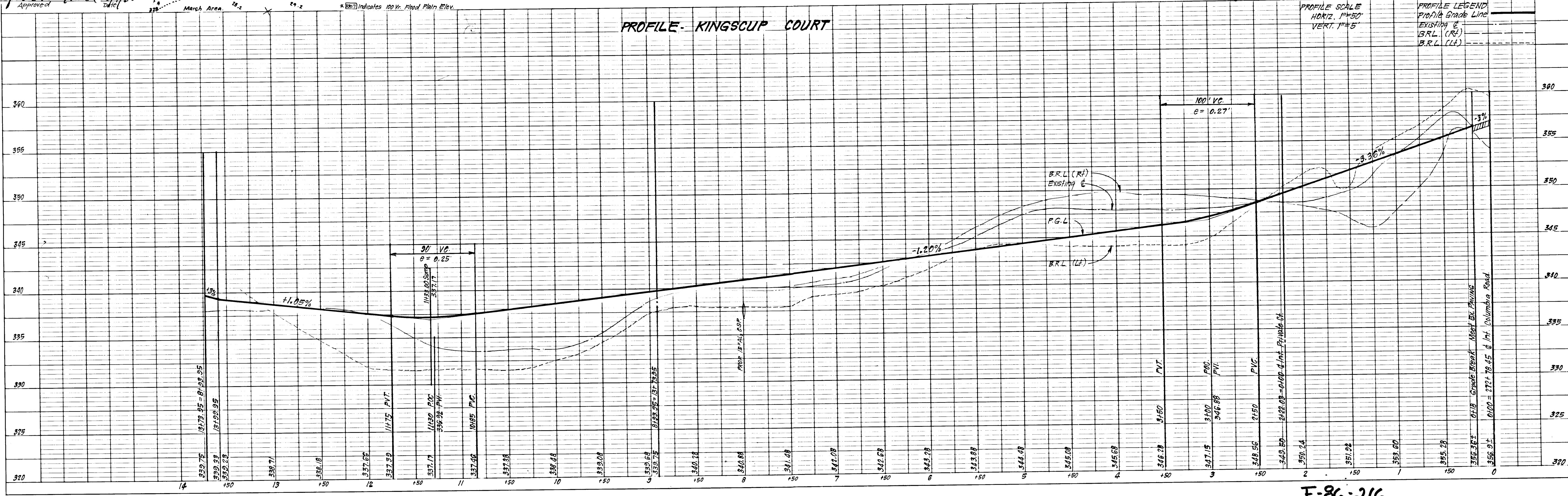
Signature: [Signature] Date: 6/10/86

Reviewed for [Signature] and made Technical Requirements [Signature] 8/14/86
U.S. Soil Conservation Service
FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.

APPROVED: DEPARTMENT OF PUBLIC WORKS
Chief, Bureau of Engineering [Signature] Date: 8-3-86
APPROVED: HOWARD COUNTY OFFICE OF PLANNING & ZONING
[Signature] Date: 8-4-86
Chief, Division of Land Development & Zoning Administration

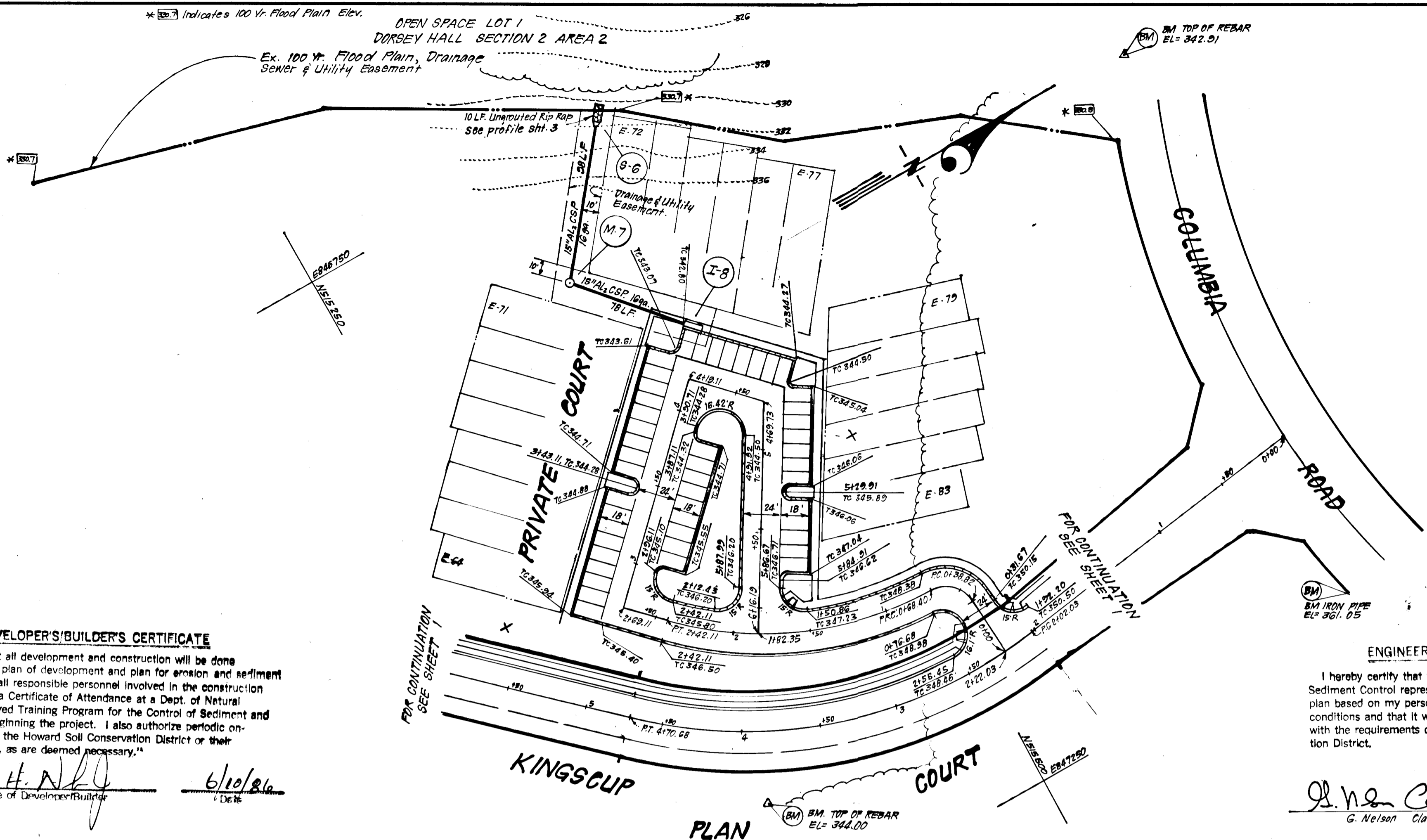
CLARK · FINEFROCK & SACKETT INC.
ENGINEERS · PLANNERS SURVEYORS
11315 LOCKWOOD DRIVE SILVER SPRING, MARYLAND 20904 (301)593-3400

DESIGNED GLB	ROAD CONSTRUCTION PLANS KINGSCUP COURT	SCALE AS SHOWN
DRAWN K/W	DORSEY HALL	DRAWING 10F 5
CHECKED GLB	SECTION 2 AREA 2 2ND ELECTION DISTRICT HOWARD COUNTY, MARYLAND	JOB NO. 86-025
DATE 6-10-86	FOR: COLUMBIA INDUSTRIAL DEVELOPMENT CORP. 10275 Little Patuxent Parkway Columbia, Md. 21044	FILE NO. 86-025-D



CENTERLINE CURVE DATA - PRIVATE COURT

STATION	RADIUS	Δ	ARC	TAN	CHORD & BEARING
PC 0+38.82 to PRC 0+68.40	20.00	84° 44' 29"	29.58	18.25	543° 08' 19" W 26.26
PRC 0+68.40 to PT 2+42.11	255.00	44° 12' 06"	179.71	91.44	521° 52' 57" W 169.43



Reviewed for... *[Signature]* and meets Technical Requirements
[Signature] 8/14/86
 U.S. Soil Conservation Service
 THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT
[Signature] 8/16/86
 Approved

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] 6/10/86
 Signature of Developer/Builder

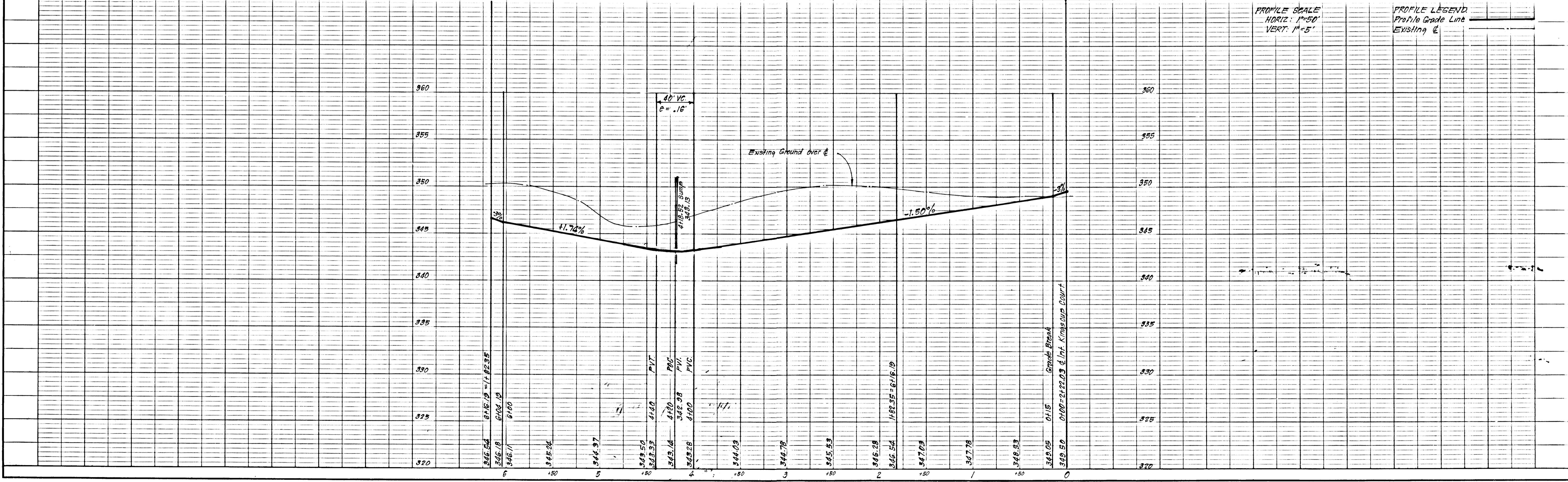
ENGINEER'S CERTIFICATE
 I hereby certify that this plan for Erosion and Sediment Control represents a practical and workable plan based on my personal knowledge of the site conditions and that it was prepared in accordance with the requirements of the Howard Soil Conservation District.
[Signature] 8-11-86
 G. Nelson Clark
 Registered Professional Engineer

APPROVED: DEPARTMENT OF PUBLIC WORKS
[Signature] 8-5-86
 Chief, Bureau of Engineering
 APPROVED: HOWARD COUNTY OFFICE OF PLANNING & ZONING
[Signature] 8-4-86
 Chief, Division of Land Development & Zoning Administration

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

DESIGNED	GLB	SCALE	AS SHOWN
DRAWN	K/W	DRAWING	20-5
CHECKED	GLB	JOB NO.	86-025
DATE	5-86	FILE NO.	86-025-D

FOR: COLUMBIA INDUSTRIAL DEVELOPMENT CORP.
 10275 Little Patuxent Parkway
 Columbia, Md. 21044

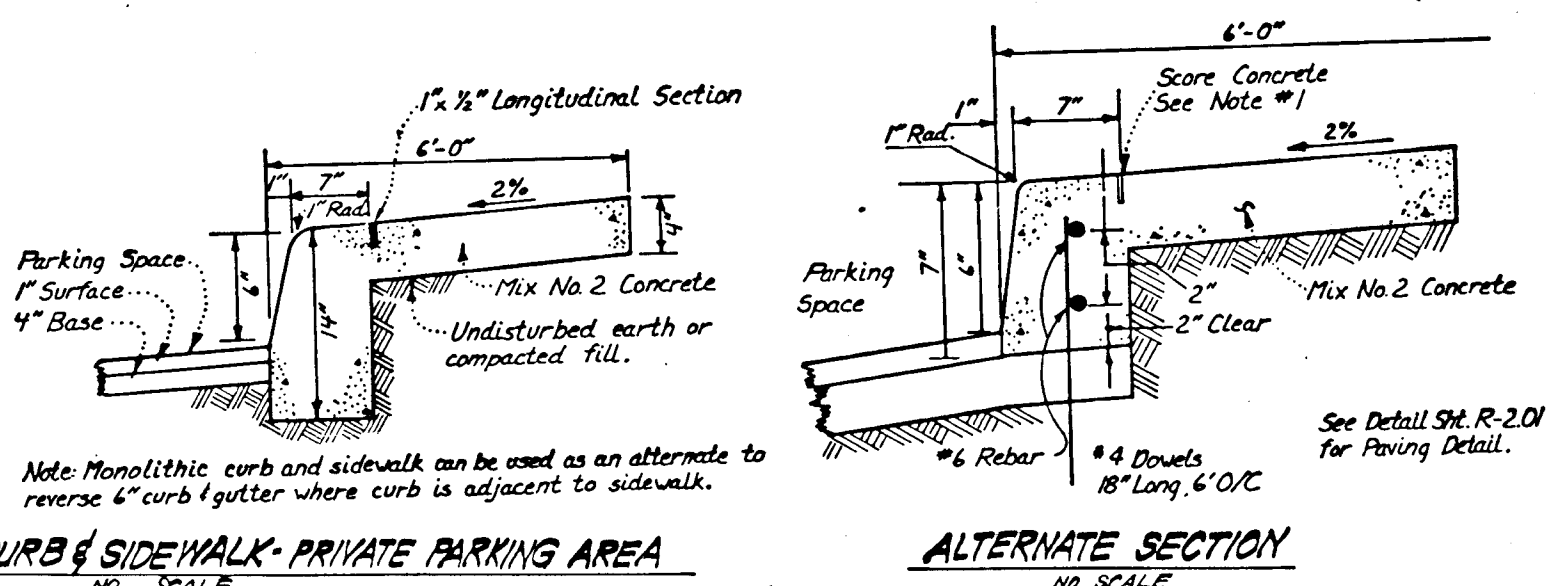


PROFILE SCALE
 HORIZ: 1"=50'
 VERT: 1"=5'

PROFILE LEGEND
 Profile Grade Line
 Existing G

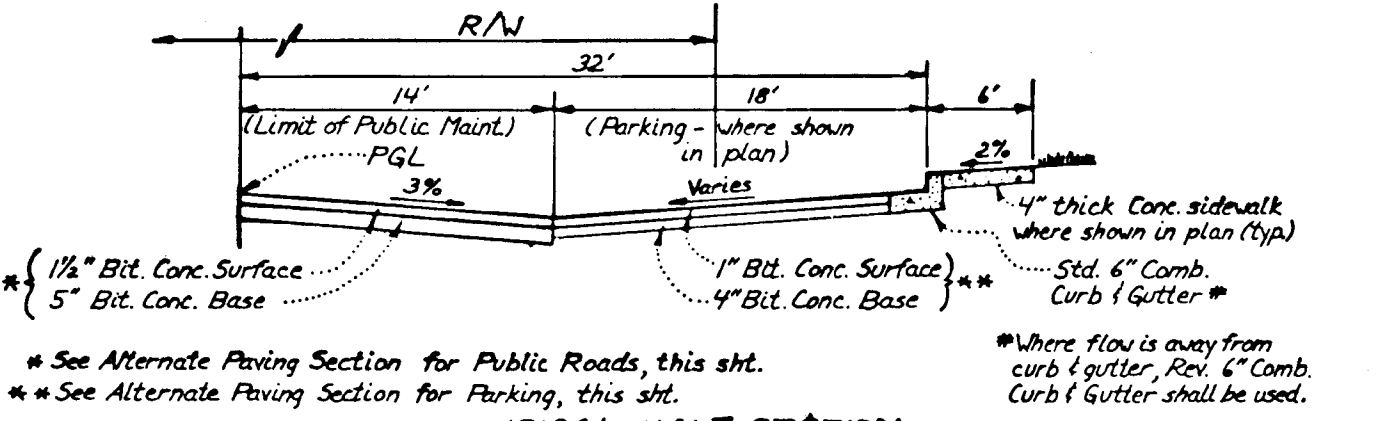
F-86-216

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 1/4" expansion joints at 15' intervals in longitudinal joints to full cross-section.

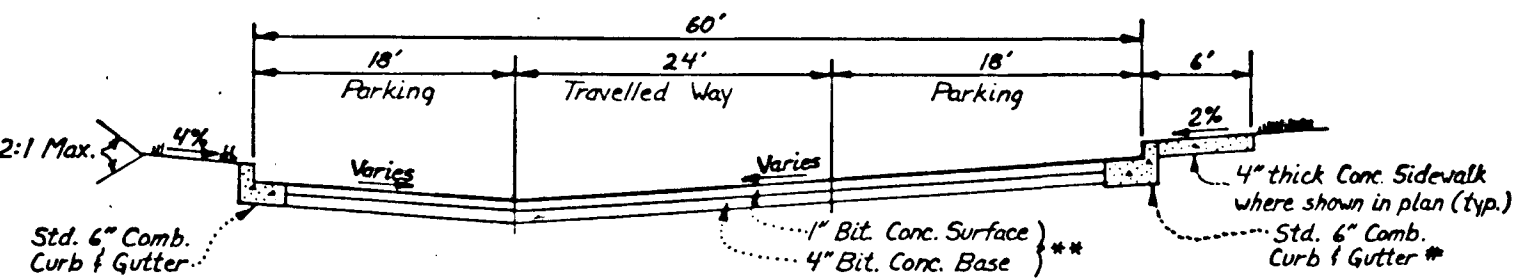


MONOLITHIC CURB & SIDEWALK-PRIVATE PARKING AREA
NO SCALE

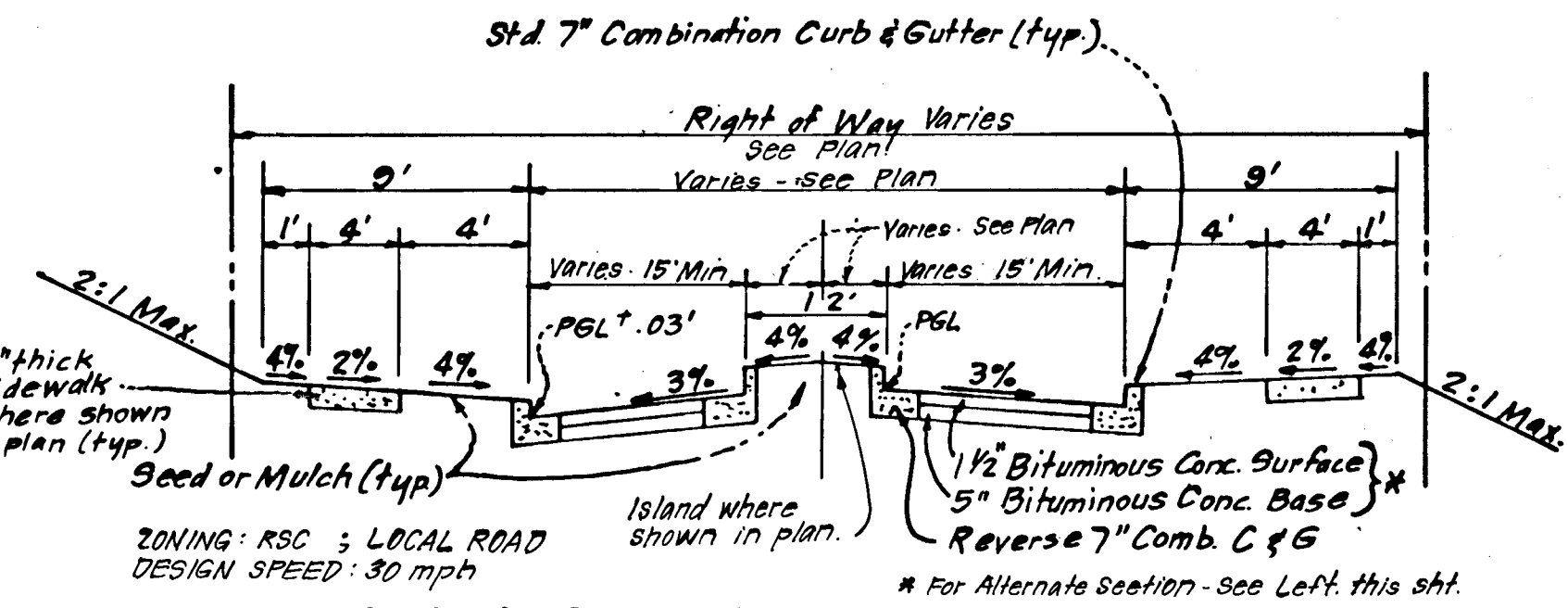
ALTERNATE SECTION
NO SCALE



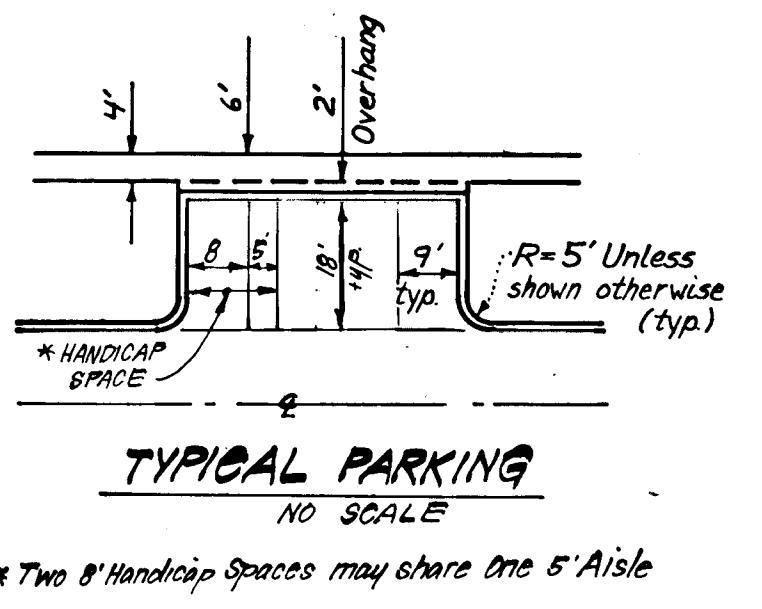
TYPICAL HALF SECTION
PARKING ADJACENT TO PUBLIC ROADS
KINGSCUP COURT - STA 2148.03 to 13173.95
NO SCALE



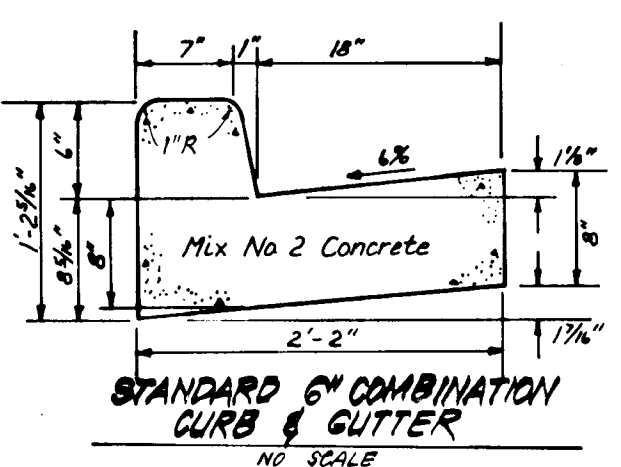
TYPICAL SECTION
PRIVATE DRIVE & PARKING
PRIVATE COURT A
NO SCALE



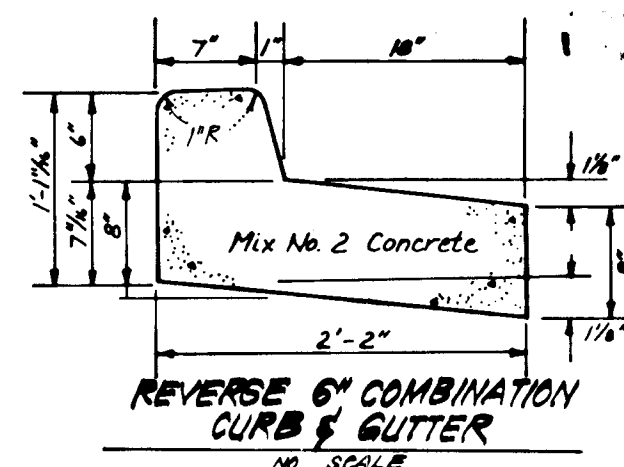
TYPICAL PAVING SECTION - KINGSCUP COURT
STA. 0141.76 to 1142.63
NO SCALE



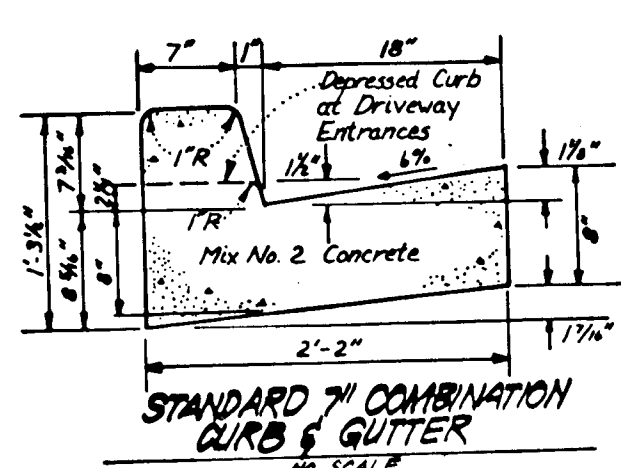
TYPICAL PARKING
NO SCALE



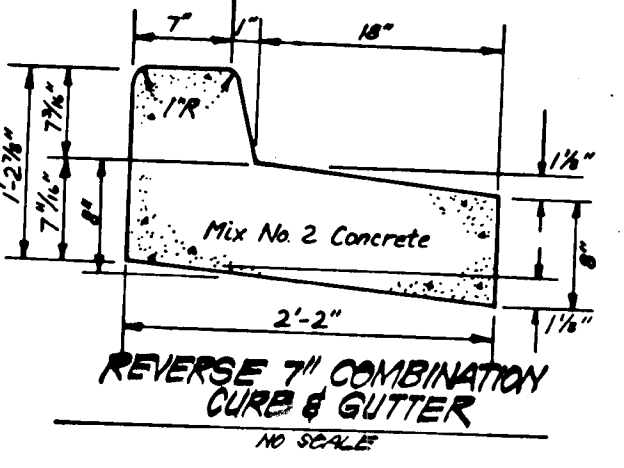
STANDARD 6" COMBINATION CURB & GUTTER
NO SCALE



REVERSE 6" COMBINATION CURB & GUTTER
NO SCALE



STANDARD 7" COMBINATION CURB & GUTTER
NO SCALE



REVERSE 7" COMBINATION CURB & GUTTER
NO SCALE

ALTERNATE PAVING SECTION FOR PUBLIC ROADS (SECTION P-2)

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

ALTERNATE PAVING SECTION FOR PARKING AREAS (SECTION P-1)

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

STRUCTURE SCHEDULE

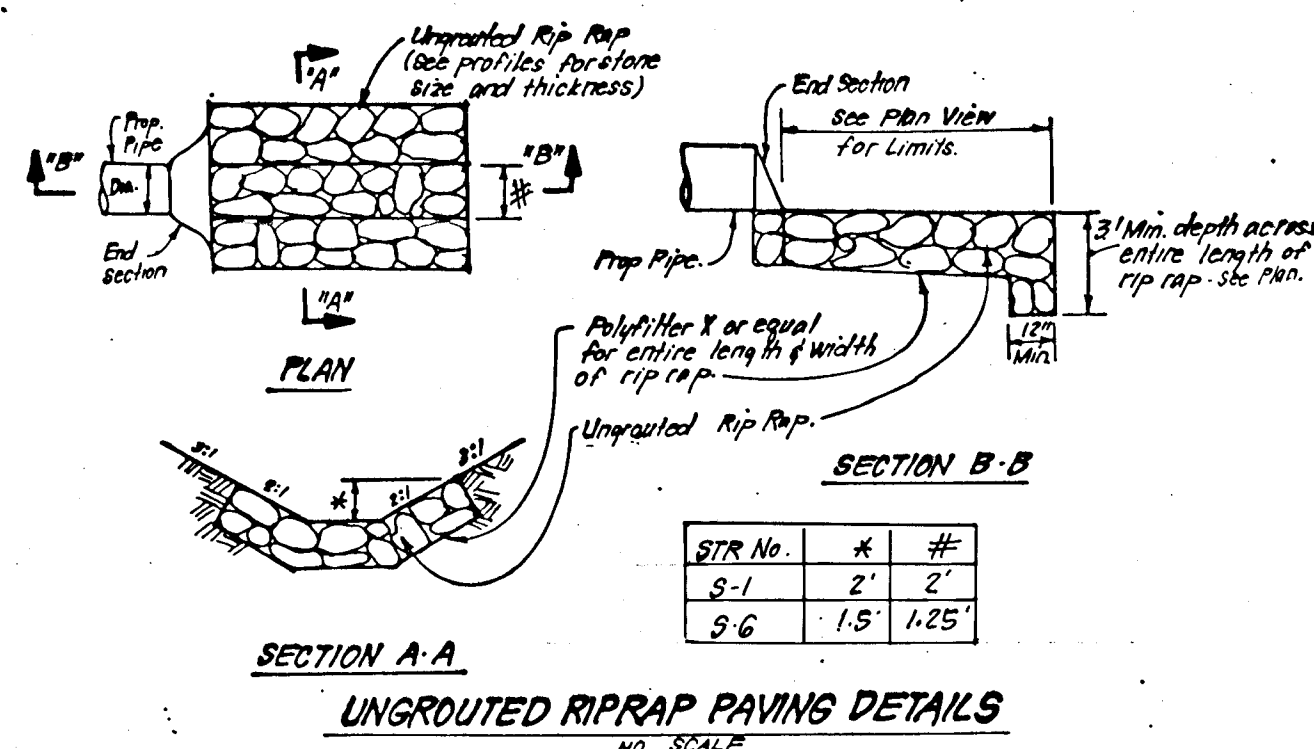
No.	TYPE	INV. IN	INV. OUT	TOP ELEVATION		REMARKS	LOCATION
				UPPER	LOWER		
S-1	Conc. End Section	330.83	330.80			No. Co. Std. SD 5.51	See Plan
M-2	Brick Manhole	331.80	331.50	331.23	338.70	" " " G-5.01 48"Ø	See Plan
I-3	A-10 Inlet	337.12	336.60	341.13	340.99	" " " SD 4.02 W=3'0"	Inlet Sta. B100 Kingscup Ct. 14.83 FT
I-4	A-10 Inlet	-	337.27	341.13	340.99	" " " SD 4.02 W=2'6"	Inlet Sta. B100 Kingscup Ct. 14.83 FT
I-5	A-10 Inlet	-	332.77	336.80		" " " SD 4.02 W=3'0"	See Plan
S-6	Metal End Section	330.82	330.70			" " " SD 5.61	See Plan
M-7	Brick Manhole	337.08	336.50	342.00		" " " G-5.01 48"Ø	See Plan
I-8	A-10 Inlet	-	338.75	342.80		No. Co. Std. SD 4.02 W=2'6"	See Plan

All Inverts to be fully developed.

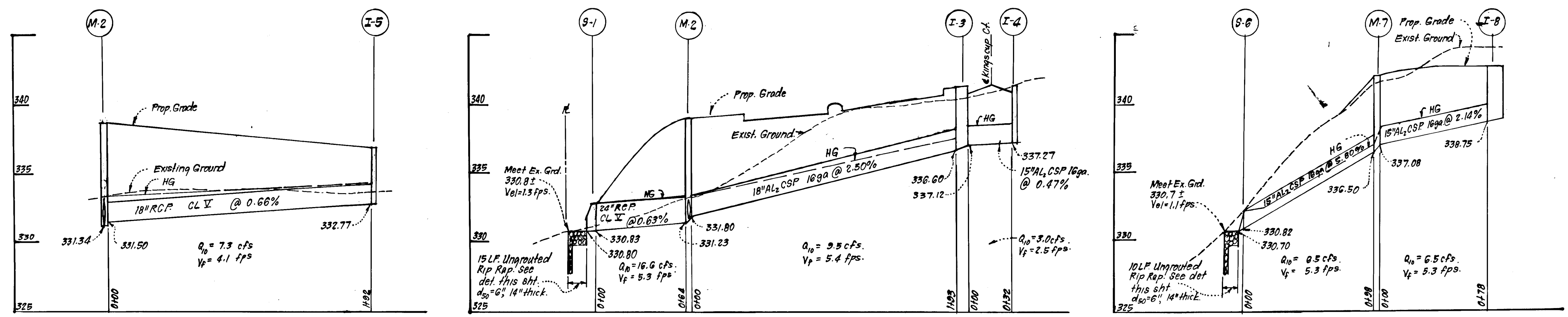
PIPE SCHEDULE

SIZE	TYPE	LENGTH
15"	AL ₂ CSP 16 gage	208 LF
18"	AL ₂ CSP 16 gage	193 LF
18"	RCP Class X	132 LF
24"	RCP Class X	64 LF

* CMP w/Aluminized coating may be substituted for AL₂ CSP.
 * 2 1/2" x 1/2" Corrugations.



UNGROUTED RIPRAP PAVING DETAILS
NO SCALE



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

Reviewed for Howard S.C.D. Name and meets Technical Requirements
 Signature: J. Hebe 8/4/86
 U.S. Soil Conservation Service
 THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD COUNTY SOIL CONSERVATION DISTRICT.
 Signature: Stephen L. Paul 8/1/86
 Date

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: J. H. Nef 6/10/86
 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.
 Signature: G. Nelson Clark 6-10-86
 Date

APPROVED: DEPARTMENT OF PUBLIC WORKS
 Chief, Bureau of Engineering
 APPROVED: HOWARD COUNTY OFFICE OF PLANNING & ZONING
 Chief, Division of Land Development & Zoning Administration
 Date: 8-5-86
 Date: 8-4-86

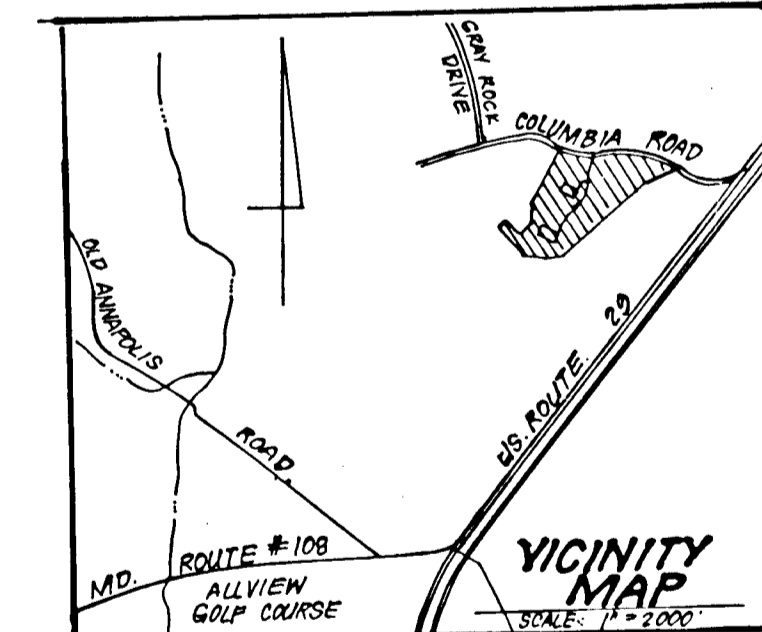
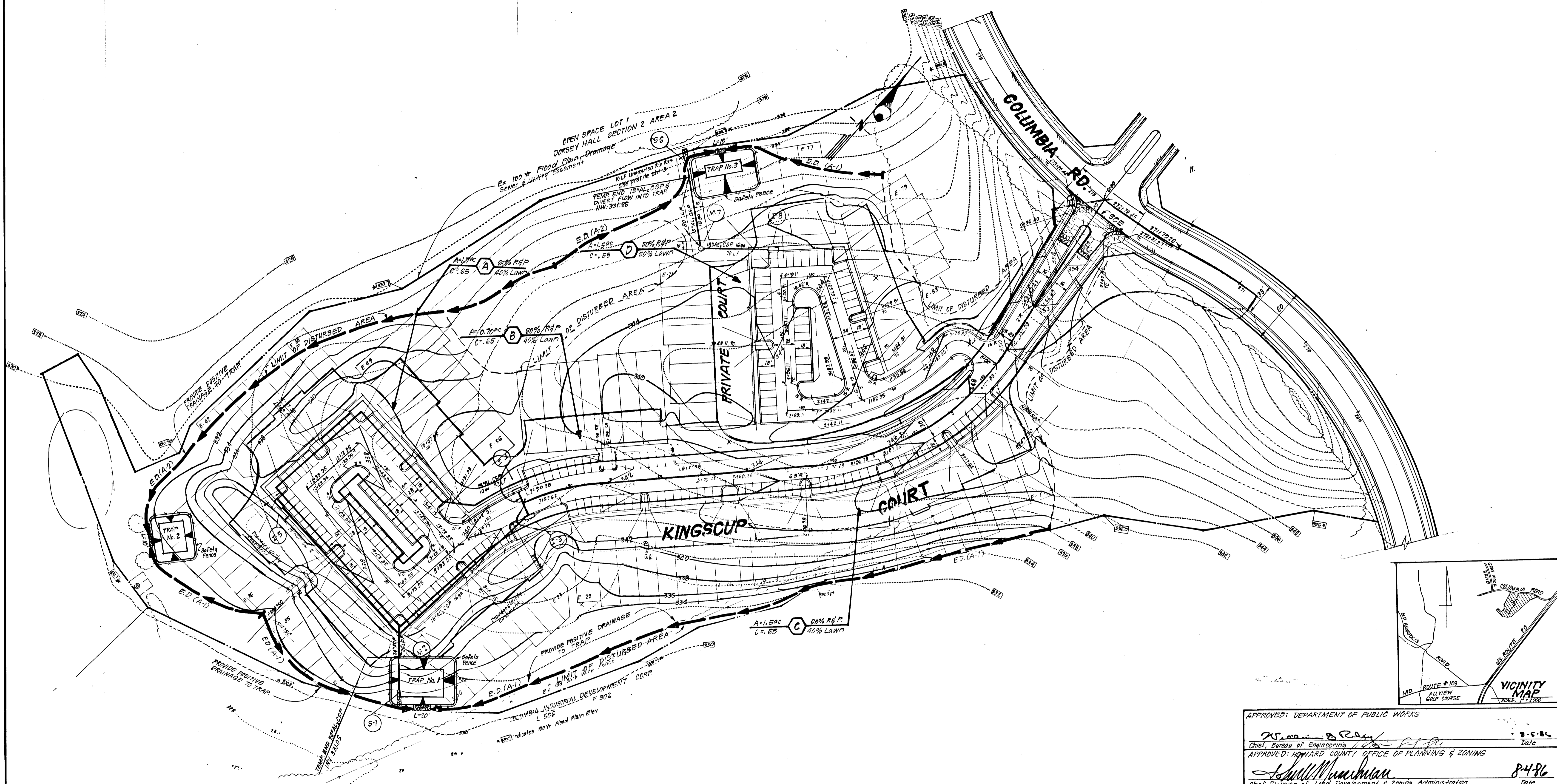
CLARK · FINEFROCK & SACKETT INC.
 ENGINEERS · PLANNERS · SURVEYORS
 11315 LOCKWOOD DRIVE SILVER SPRING, MARYLAND 20904 (301)593-3400

DESIGNED	GLB	SCALE	As Shown
DRAWN	K/W	DRAWING	3 OF 5
CHECKED	GLB	JOB NO.	86-025
DATE	6-10-86	FILE NO.	86-025-D

FOR: COLUMBIA INDUSTRIAL DEVELOPMENT CORP.
 10775 Little Patuxent Parkway
 Columbia, Md. 21042

SEDIMENT TRAP TABLE

TRAP No.	TYPE OF TRAP	P.A. (Ac)	STORAGE REQUIRED	STORAGE PROVIDED	DEPTH	TOP OF STONE CREST	BOTTOM ELEVATION	CLEAN OUT ELEVATION	BOTTOM DIMENSIONS
1	S.O.S.T. (ST.V)	5.0 Ac.	9000 cf	9120 cf	4'	331.0	328.0	328.0	42' X 32'
2	S.O.S.T. (ST.V)	2.3 Ac.	4182 cf	4182 cf	3'	331.5	329.0	329.0	35' X 28'
3	S.O.S.T. (ST.V)	2.4 Ac.	4320 cf	4400 cf	4'	333.0	328.0	328.0	42' X 14'



Reviewed for Howard S.C.D. Name
 and meet Technical Requirements
J. Hahn 8/14/86 Date
 U.S. Soil Conservation Service
 THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.
Stephen L. Hahn 8/14/86 Date

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John H. Nelly 6/10/86 Date

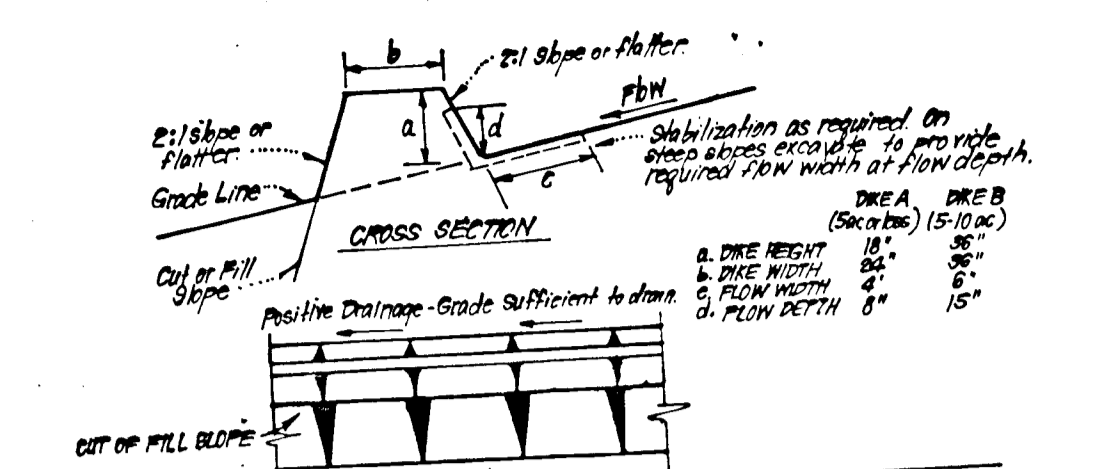
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G. Nelson Clark 8-11-86 Date

APPROVED: DEPARTMENT OF PUBLIC WORKS
William B. P. ... 8-5-86 Date
 Chief, Bureau of Engineering
 APPROVED: HOWARD COUNTY OFFICE OF PLANNING & ZONING
William M. ... 8-4-86 Date
 Chief, Division of Land Development & Zoning Administration

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

DESIGNED GLB	ROAD CONSTRUCTION PLANS SEDIMENT & EROSION CONTROL PLAN AND DRAINAGE AREA MAP DORSEY HALL SECTION 2 AREA 2 2ND ELECTION DISTRICT HOWARD COUNTY, MARYLAND	SCALE As Shown
DRAWN M/W		DRAWING 40F 5
CHECKED G.L.B.		JOB NO. 86-025
DATE 6-10-86		FILE NO. 86-025-D
FOR: COLUMBIA INDUSTRIAL DEVELOPMENT CORP. 10275 Little Patuxent Parkway Columbia, Md. 21044		

F-86-216



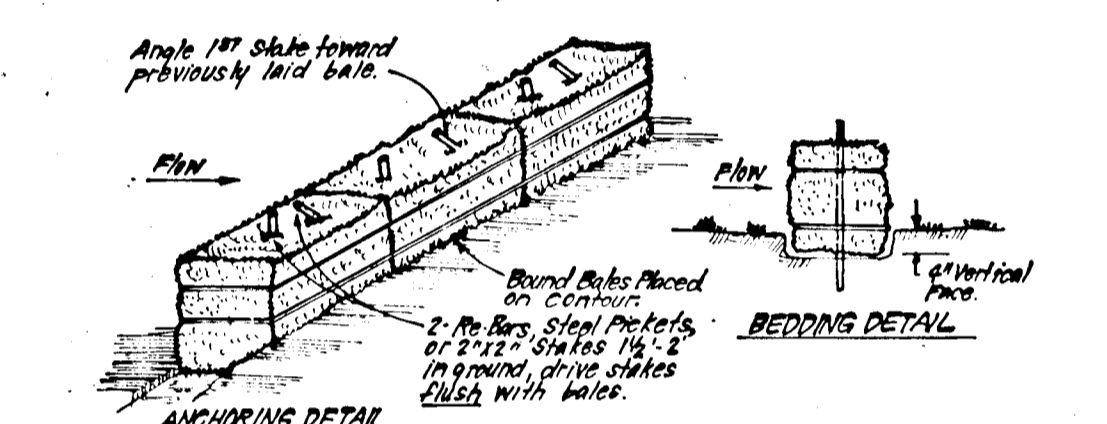
CONSTRUCTION SPECIFICATIONS:
 1. All dikes shall be constructed by earth-moving equipment.
 2. All dikes shall have positive drainage to an outlet.
 3. Top width may be wider and side slopes may be flatter if desired to facilitate crossing by construction traffic.
 4. Final location should be adjusted as needed to utilize a stabilized safe outlet.
 5. Earth dikes shall have an outlet that functions with a minimum of erosion. Rip rap shall be arranged to a sediment-trapping device such as a sediment trap or sediment adequately stabilized by: (A) in accordance with standard specifications for sod and straw mulch or straw mulch if not in seeding season; (B) flow channel as per chart below.

FLOW CHANNEL STABILIZATION

TYPE OF TREATMENT	CHANNEL GRADE	DIKE A	DIKE B
1	0.5 - 3.0%	Seed or Straw Mulch	Seed or Straw Mulch
2	3.1 - 5.0%	Seed or Straw Mulch	Seed or Straw Mulch or Excelsior Sod or Stone
3	5.1 - 8.0%	Seed or Straw Mulch or Rip Rap	Seed or Straw Mulch or Rip Rap or Stone
4	8.1 - 20.0%	Seed or Straw Mulch or Rip Rap or Stone	Seed or Straw Mulch or Rip Rap or Stone

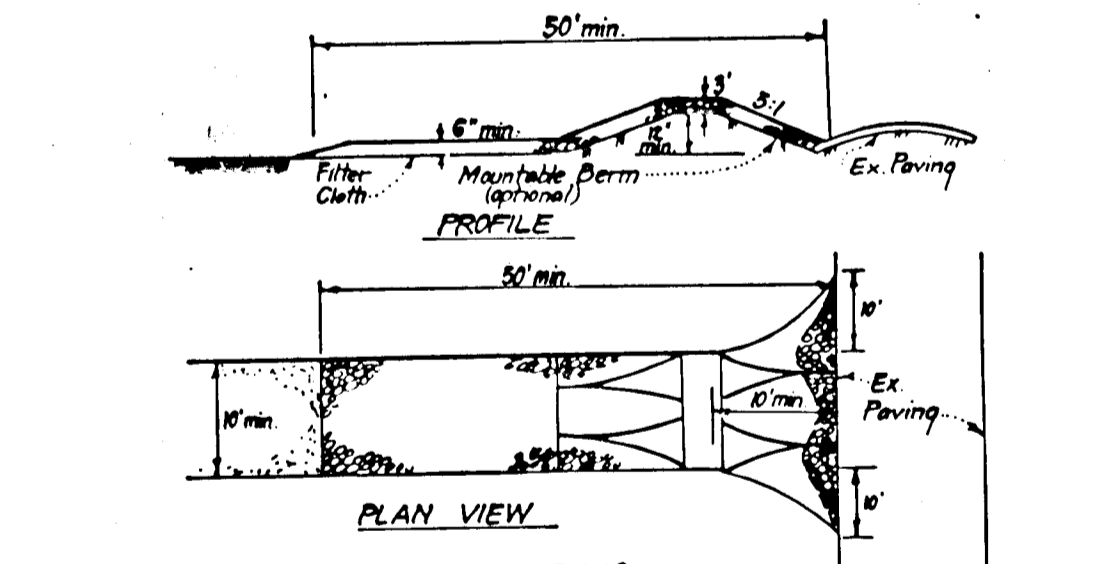
A. Stone to be 2" Stone, or recycled concrete equivalent, in a layer at least 3" thick and be placed on top of the dike.
 B. Rip Rap to be 4" - 8" in a layer at least 12" thick for any of the above materials.
 C. Appointed equivalents can be substituted for any of the above materials.
 7. Periodic inspection and required maintenance must be provided after each rain.

EARTH DIKE DETAIL (E.D.)
NO SCALE



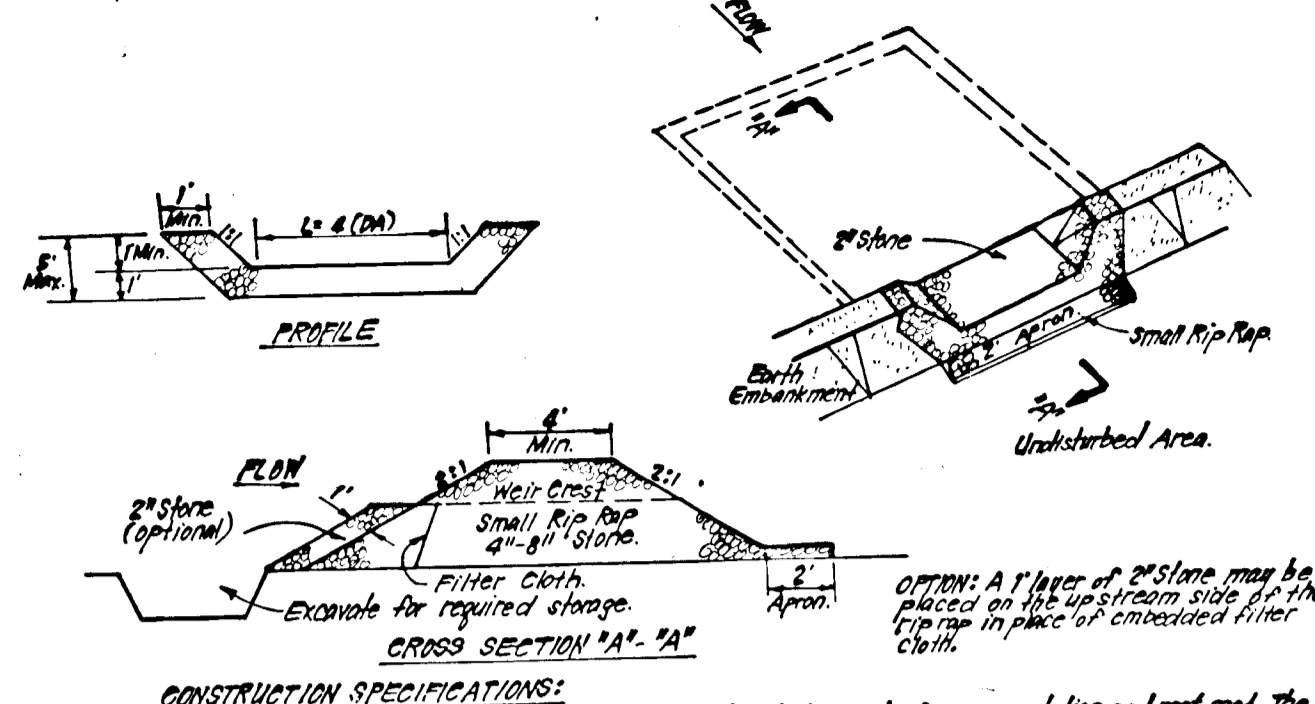
CONSTRUCTION SPECIFICATIONS:
 1. Bales shall be placed at the top of a slope or on the contour and in a row with ends tightly abutting the adjacent bales.
 2. Each bale shall be encased in the soil a min. of 6" and placed so the bindings are horizontal.
 3. Bales shall be securely anchored in place by either 2 stakes or re-bars driven thru the bales. The 1/2" steel rod in each bale shall be driven thru the previously laid bale at an angle of 45 degrees and bales together. Stakes shall be driven flush with the bales.
 4. Inspection shall be frequent and repair/replacement shall be made promptly as needed.
 5. 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



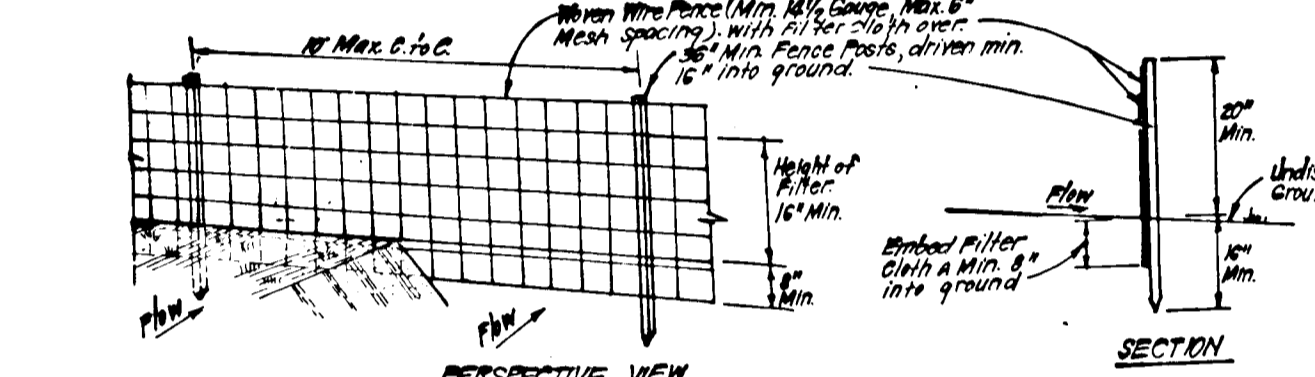
CONSTRUCTION SPECIFICATIONS:
 1. Stone size - Use 2" stone or reclaimed or recycled concrete equivalent.
 2. Length - As required, but not less than 50 feet (exception a single residence lot where a 30 foot minimum length would apply).
 3. Thickness - Not less than six (6) inches.
 4. Width - Ten (10) foot minimum, but not less than the full width at points where ingress or egress occurs.
 5. 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.
 6. Surface Water - All surface water flowing or diverted toward construction entrances shall be piped across the entrance. If piping is impractical, a mountable berm with 5:1 slopes will be permitted.
 7. 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 concrete demand and repair and/or cleanup of any repairs used to trap sediment. All sediment applied, dropped, washed or tracked onto public rights-of-way must be removed immediately.
 8. Washing - Vehicles shall be cleaned to remove sediment prior to entrance onto public rights-of-way. When washing is required, it shall be done on all area stabilized with stone and which drains into an approved sediment trapping device.
 9. Periodic inspection and needed maintenance shall be provided after each rain.

STABILIZED CONSTRUCTION ENTRANCE (SCE)
NO SCALE



CONSTRUCTION SPECIFICATIONS:
 1. Area under embankment shall be cleared, grubbed and stripped of any vegetation and roof mat. The soil area shall be compacted.
 2. The fill material for the embankment shall be free of roots and other woody vegetation as well as any sized stones, rocks, organic material or other objectionable material. The embankment shall be compacted by hand using a tamper or roller. It is to be finished with a 2:1 slope.
 3. All cut and fill slopes shall be 2:1 or flatter.
 4. The stone used in the outlet shall be small rip rap, 4" - 8" above with 1" thickness of 2" aggregate placed on the up-slope side on the small rip rap or embedded filter cloth in the rip rap.
 5. Sediment shall be inspected and repaired to its original dimensions when the sediment has accumulated to 1/2" the design depth of the trap.
 6. The structure shall be inspected after each rain and repairs made as needed.
 7. Construction operations shall be carried out in such a manner that erosion and water pollution is minimized.
 8. The structure shall be removed and the area stabilized when the drainage area has been properly stabilized.

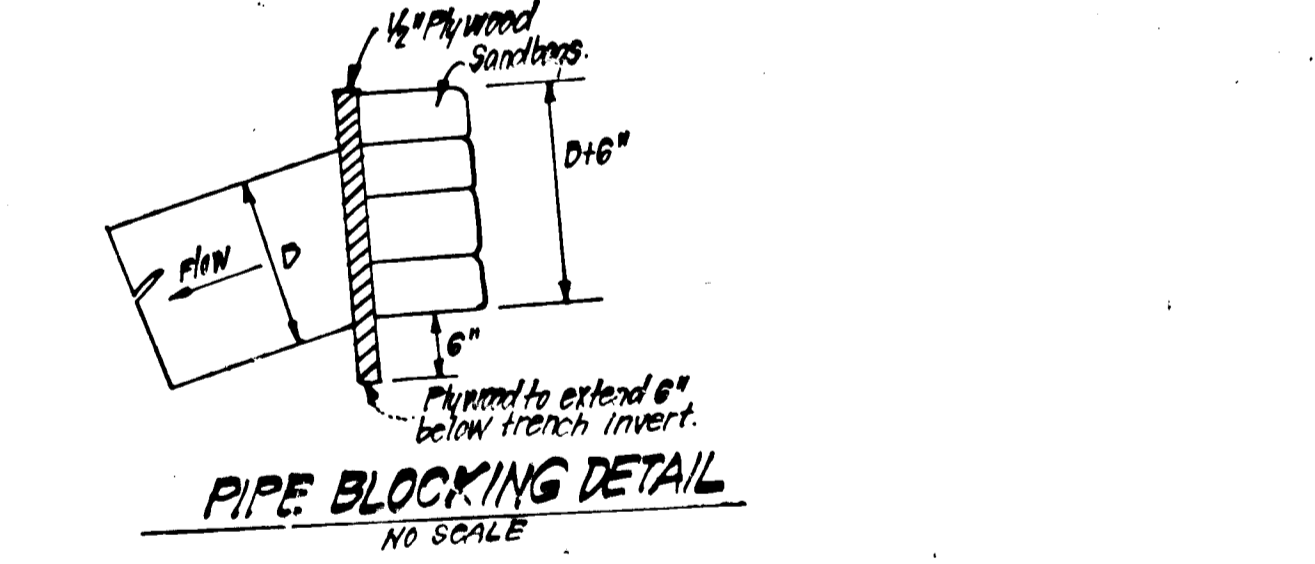
STONE OUTLET SEDIMENT TRAP (S.O.S.T.) STV.
NO SCALE



CONSTRUCTION SPECIFICATIONS:
 1. Weave wire fence to be fastened securely to fence posts with wire ties or staples.
 2. Filter cloth is to be fastened securely to weaver wire fence with ties spaced every 36" at top and mid section.
 3. When 2 sections of filter cloth adjoin each other they shall be overlapped by 6" and stapled.
 4. Maintenance shall be performed as needed and material removed when "bunches" develop in Silt Fence.

POSTS: Steel, either T or U Type or 2" diameter.
 FENCE: Weave Wire, 1/2" Mesh, 6" Max. Mesh Opening.
 FILTER CLOTH: Filter Cloth, 1/2" Mesh, 6" Max. Mesh Opening.
 PREPARED UNIT: Geotex, Envirofence, or approved equal.

SILT FENCE DETAIL (S)
NO SCALE



PIPE BLOCKING DETAIL
NO SCALE

Reviewed for... Howard County S.C.D.
 Name
 and meets Technical Requirements
 Signature: [Signature] Date: 8/11/86
 U.S. Soil Conservation Service

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD COUNTY CONSERVATION DISTRICT.
 Approved: [Signature] Date: 6/10/86

DEVELOPER'S/BUILDERS CERTIFICATE
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 Signature: [Signature] Date: 6-11-86

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 2 1/2 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 mulch (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	19.541 Acres
Area Disturbed	3.037 Acres
Area to be roofed or paved	2.215 Acres
Area to be vegetatively stabilized	0.822 Acres
Total Cut	16,800 Cu. yds
Total Fill	18,780 Cu. yds
Offsite waste/borrow area location	N/A
- 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 control 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.
- 11) If houses are to be constructed on an "As-Built" basis, at random, Single Lot Sediment Control as shown below shall be implemented. N/A
- 12) All pipes to be blocked at the end of each day (see detail below). N/A
- 13) The total amount of straw bale dikes/silt fence equals None L.F.

CONSTRUCTION SEQUENCE:

	No. of Days
1. Obtain Grading Permit.	2
2. Clear & Grub for Installation of Sediment Control Measures.	2
3. Install Sediment & Erosion Control.	2
4. Clear and Rough Grade Site and Temp. Stabilize.	30
5. Construct Storm Drainage:	
Temp. end 24" AL CSP and divert flow into trap No. 1.	15
Temp. end 15" AL CSP and divert flow into trap No. 3.	30
6. Construct Paving & Sidewalks.	10
7. Fine Grade & Stabilize Site.	5
8. Upon approval of Sediment Control Inspector, remove sediment & erosion controls & stabilize.	5
9. Construct remaining storm drainage utilizing SBD/S as necessary.	2

APPROVED: DEPARTMENT OF PUBLIC WORKS
 Chief, Bureau of Engineering: [Signature] Date: 8-5-86
 APPROVED: HOWARD COUNTY OFFICE OF PLANNING & ZONING
 Chief, Division of Land Development & Zoning Administration: [Signature] Date: 8-4-86

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

DESIGNED: GLB SCALE: AS SHOWN
 DRAWN: N/W DRAWING: 5 OF 5
 CHECKED: GLB JOB NO: 86-025
 DATE: 6-10-86 FOR: COLUMBIA INDUSTRIAL DEVELOPMENT CORP. FILE NO: 86-025-D
10275 Little Potomac Parkway
Columbia, Md. 21042