

**GENERAL NOTES**

- All materials and construction to be in accordance with Howard County Road Construction Code and Specifications.
- This plan is covered by Final Development Plan Phase 191-A.
- Any damage to county owned rights of way to be corrected at the developer's expense.
- Installation of traffic control devices shall be in accordance with the latest edition of the "Manual of Uniform Traffic Control."
- Topography was compiled from actual field survey.
- The area shown is located on Tax Map 30, Parcel 224.
- All driveways to be privately owned and maintained.
- All coordinates are based on Howard County Geodetic Control Survey traverse which is based on the Maryland State Plane Coordinate System.
- Trench bedding for Storm Drainage to be in accordance with Ho. Co. Std. G-2.0 Trench in Earth.
- Information concerning underground utilities was obtained from available records, but the contractor must determine the exact location by digging test pits, by hand, at all utility crossings, well in advance of construction.
- The contractor or developer shall Construction Inspection, Survey Division 24 hrs in advance of work at 982-2417 or 792-7872.
- The developer agrees to work with the Dept. of Licenses & Inspection to resolve any problems caused by roof water discharge.
- All downspout drains shall be handled by one of these methods:
  - Downspout to splash blocks and discharged to ground having good percolation.
  - Downspout in front of units piped to curb.
  - Downspout connected to storm drain.
- Handicap parking details shall be in accordance with the "Maryland Building Code for the Handicapped" Sect. 5.01-7.05 and details sht. 2.
- All setback requirements and criteria as shown in F.D.P. 191 A.
- Storm Water Management for this project has been provided by previously approved plans F-86-26 and F-86-226.
- This plan is subject to Variance Petition VP-86-82.

**SITE ANALYSIS**

- Zone: New Town Apts. (FDP Phase 191A)
- Area of Parcel: 12.138 Acres
- NR of Units Permitted: 120
- NR of Units Proposed: 113
- Unit Type: 4,5,6,7,8 Plex Condominium Townhouses
- Parking Spaces Required: 226
- Parking Spaces Provided:
  - Private Parking: (2/Unit's 1 in Garage) 226
  - Guest Parking Spaces: 68
  - Total: 294
- Building Coverage: 12.57 Ac. 3 21%
- All units have one car garages. Garages shall be used for parking purposes only in accordance with FDP 191 A and Section 127 B.2.b.(18) of the Howard County Zoning Regulations.

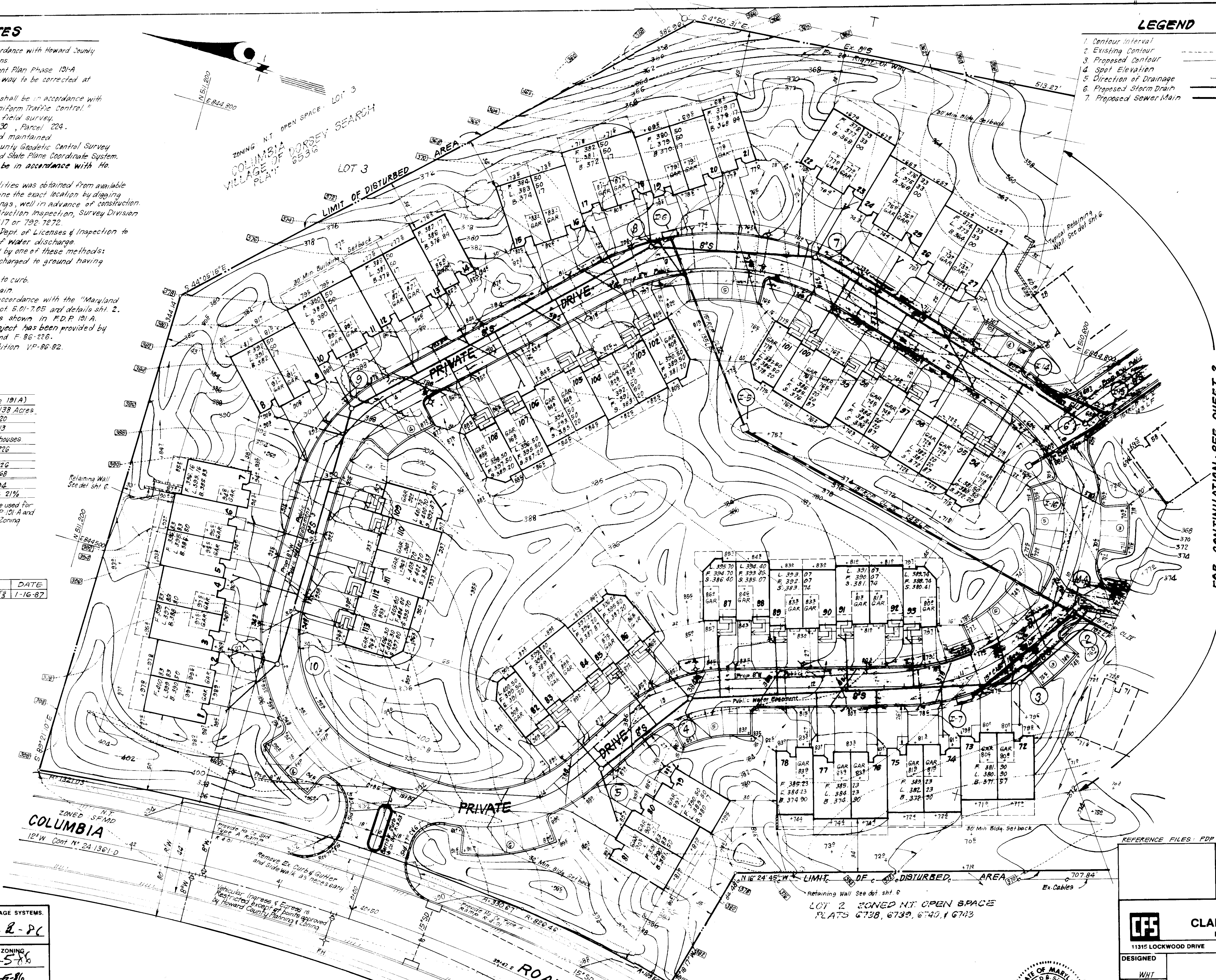
Nº	REVISION	DATE
1	Add "Y" branch on end of SHC to serve Lot 3	1-16-87

**LEGEND**

- Contour Interval 2' F.I.
- Existing Contour
- Proposed Contour
- Spot Elevation
- Direction of Drainage
- Proposed Storm Drain
- Proposed Sewer Main

**VICINITY MAP**  
SCALE 1"=4000'

UNIT Nº	STREET ADDRESS
1	5031 COLUMBIA ROAD
2	5033
3	5035
4	5037
5	5039
6	5041
7	5043
8	5045
9	5047
10	5049
11	5051
12	5053
13	5055
14	5057
15	5059
16	5061
17	5063
18	5065
19	5067
20	5069
21	5071
22	5073
23	5075
24	5077
25	5079
26	5081
27	5083
28	5085
29	5087
30	5089
31	5091
32	5093
33	5095
34	5097
35	5099
36	5101
37	5103
38	5105
39	5107
40	5109
41	5111
42	5113
43	5115
44	5117
45	5119
46	5121
47	5123
48	5125
49	5127
50	5129
51	5131
52	5133
53	5135
54	5137
55	5139
56	5141
57	5143
58	5145
59	5147
60	5149
61	5151
62	5153
63	5155
64	5157
65	5159
66	5161
67	5163
68	5165
69	5167
70	5169
71	5171
72	5173
73	5175
74	5177
75	5179
76	5181
77	5183
78	5185
79	5187
80	5189
81	5191
82	5193
83	5195
84	5197
85	5199
86	5201
87	5203
88	5205
89	5207
90	5209
91	5211
92	5213
93	5215
94	5217
95	5219
96	5221
97	5223
98	5225
99	5227
100	5229
101	5231
102	5233
103	5235
104	5237
105	5239
106	5241
107	5243
108	5245
109	5247
110	5249
111	5251
112	5253
113	5255



FOR CONTINUATION - SEE SHEET 2

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT  
 COUNTY HEALTH OFFICER: *[Signature]* DATE: 11-2-86

APPROVED: HOWARD COUNTY OFFICE OF PLANNING & ZONING  
 PLANNING DIRECTOR: *[Signature]* DATE: 11-5-86

APPROVED: CHIEF DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION  
 CHIEF DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION: *[Signature]* DATE: 11-5-86

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS, HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS  
 DIRECTOR: *[Signature]* DATE: 11-5-86

CHIEF BUREAU OF ENGINEERING: *[Signature]* DATE: 11-5-86

7-23-86  
*[Signature]*

REFERENCE FILES: FDP 191 A; F-86-26; S-86-61; VP 86-82

SUBDIVISION NAME: COLUMBIA Village of Dorsey's Search	SECT./AREA: 3/1	LOT/PARCEL: 1
PLAT #: 6865	BLOCK #: 3815	TAX/ZONE MAP/ELEC. DIST. PERMITS TO: 5 / 6052.02
WATER CODE: E 01	SEWER CODE: 565000	

**CFE CLARK · FINEFROCK & SACKETT**  
 ENGINEERS · PLANNERS · SURVEYORS  
 11315 LOCKWOOD DRIVE · SILVER SPRING, MARYLAND 20904 · (301) 568-3400

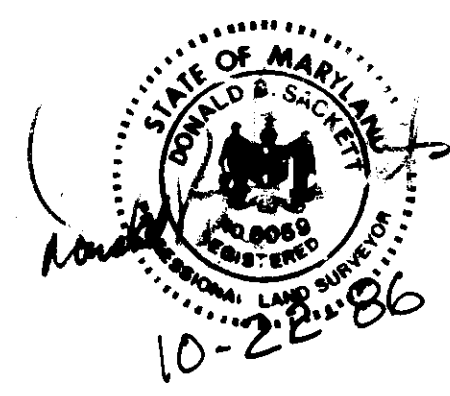
DESIGNED: WHI  
 DRAWN: JTR, KIW  
 CHECKED: WHI  
 DATE: 6-25-86

**SITE DEVELOPMENT PLAN PARCEL B-1**  
**COLUMBIA**  
 VILLAGE OF DORSEY'S SEARCH SECTION 3 AREA 1 5TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND

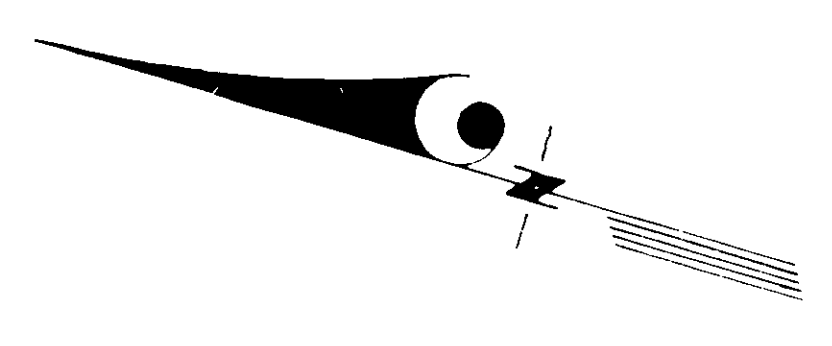
FOR: KENDE HOMES OF ALLIEW, INC.  
 7130 Minstrel Way - #200 Columbia, Maryland 21045

SCALE: 1"=30'  
 DRAWING: 10F-9  
 JOB NO.: 85-135  
 FILE NO.: 85-135

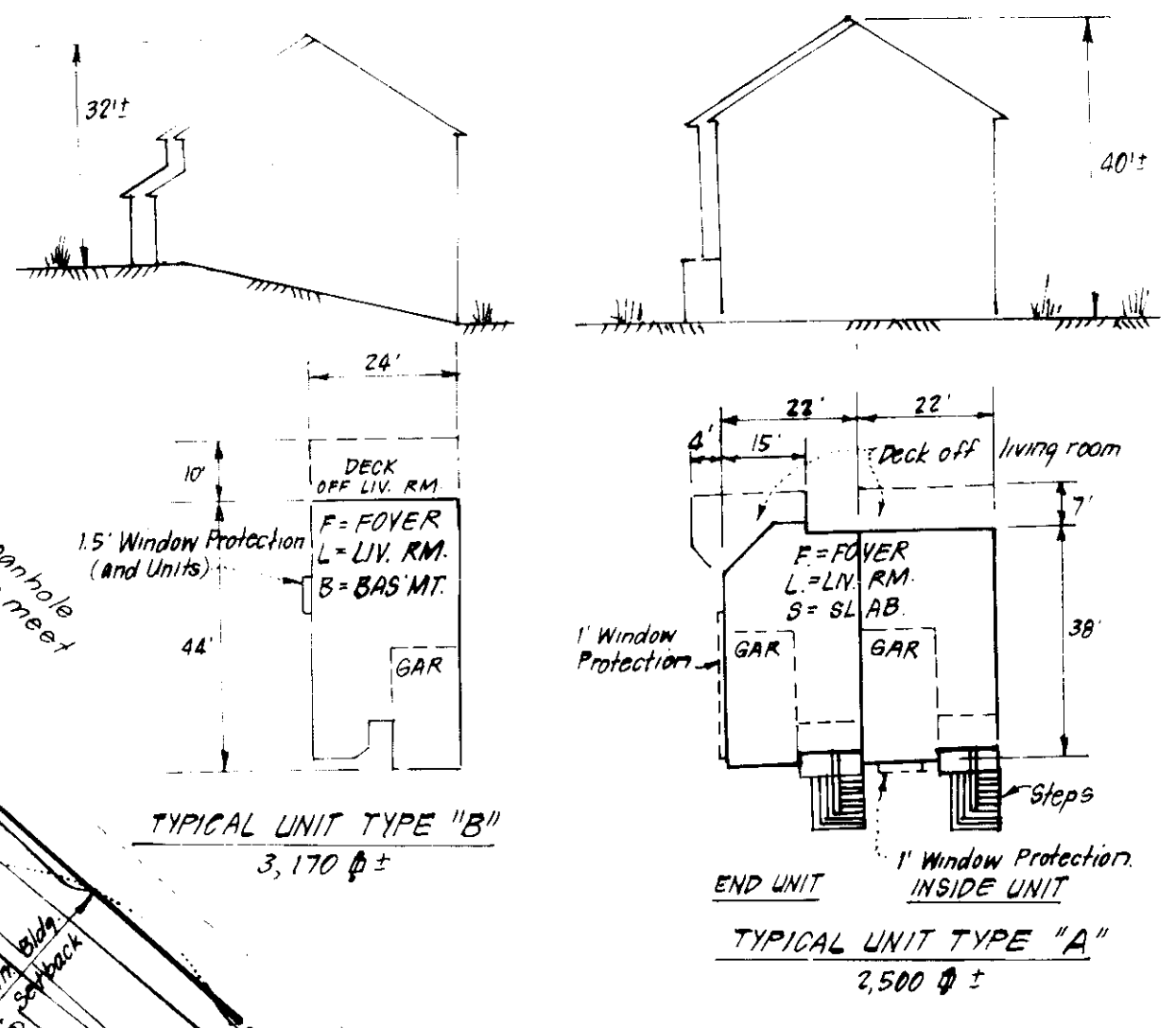
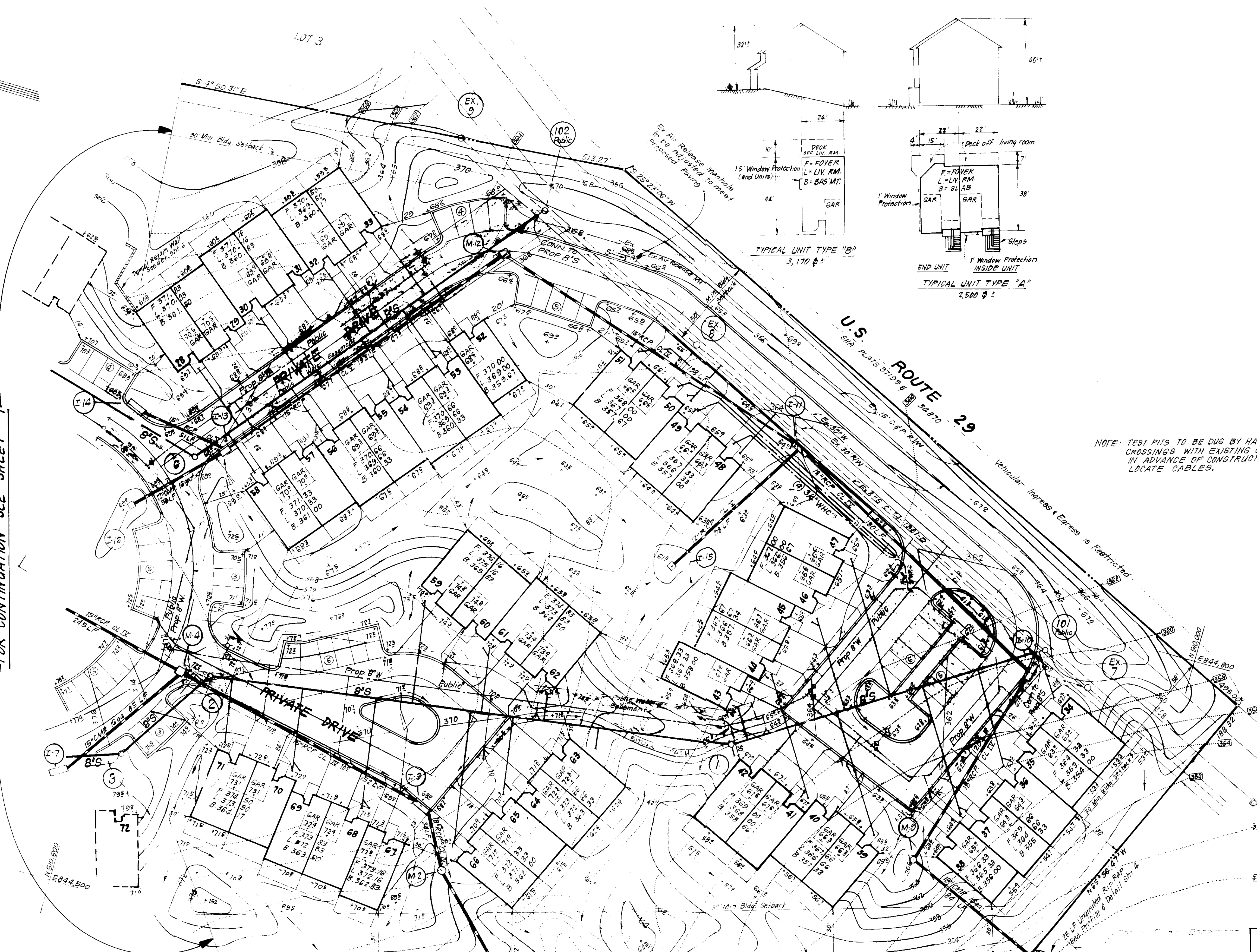
SDP-86-281







FOR CONTINUATION - SEE SHEET



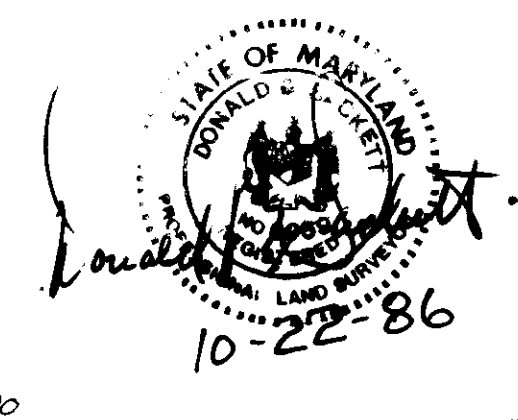
UNIT NO	STREET ADDRESS
28	5135 Columbia Road
29	5141
30	5143
31	5145
32	5147
33	5149
34	5151
35	5153
36	5155
37	5157
38	5159
39	5161
40	5163
41	5165
42	5167
43	5169
44	5171
45	5173
46	5175
47	5177
48	5179
49	5181
50	5183
51	5185
52	5187
53	5189
54	5191
55	5193
56	5195
57	5197
58	5199
59	5201
60	5203
61	5205
62	5207
63	5209
64	5211
65	5213
66	5215
67	5217
68	5219
69	5221
70	5223
71	5225
72	5227
73	5229
74	5231
75	5233
76	5235
77	5237
78	5239
79	5241

NOTE: TEST PITS TO BE DUG BY HAND AT ALL CROSSINGS WITH EXISTING CABLES WELL IN ADVANCE OF CONSTRUCTION TO LOCATE CABLES.

*G. Nelson Clark*  
Date 10-23-86

*W. J. K. K...*  
Date 10-23-86

ZONED INT. OPEN SPACE  
LOT 2  
25.75 Acres  
Plats 6738, 6739, 6740  
& 6743



Nº	REVISION	DATE
1	Revised Private Drive alignment & grading	3-30-87

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS  
HOWARD COUNTY HEALTH DEPARTMENT  
*J. G. ...* 11-3-86

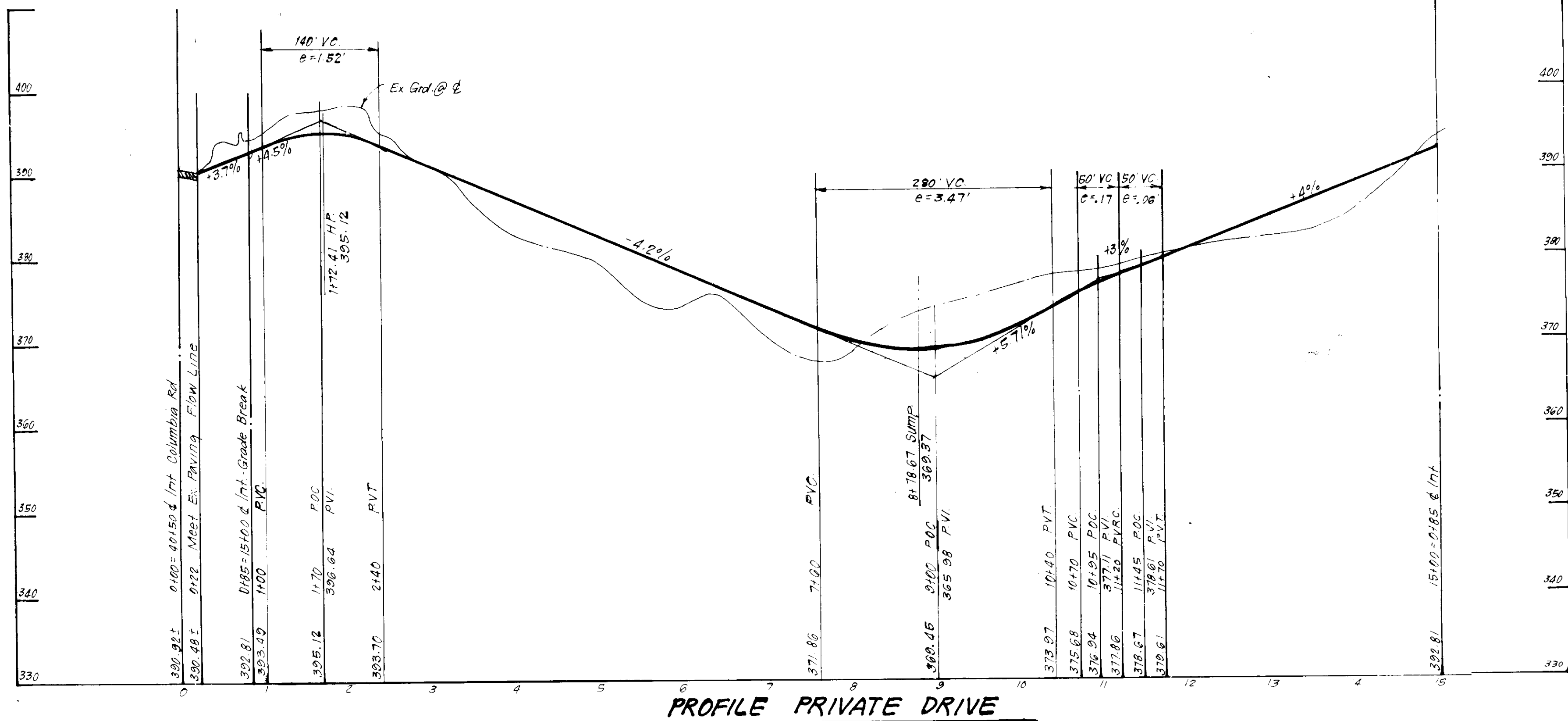
APPROVED: HOWARD COUNTY OFFICE OF PLANNING & ZONING  
*J. G. ...* 11-5-86

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE,  
STORM DRAINAGE SYSTEMS AND PUBLIC ROADS  
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS  
*J. G. ...* 7-23-86

SUBDIVISION NAME: COLUMBIA	SECT. AREA: 3/1	LOT/PARCEL # PARCEL B-1
PLAT # 6865	BLOCK # 99/15	ZONE N/A
TAXI MAP # 30	ELEC. DIST. # 5	DISPENS. TR. # 6052.02
WATER CODE E01	SEWER CODE 5650000	

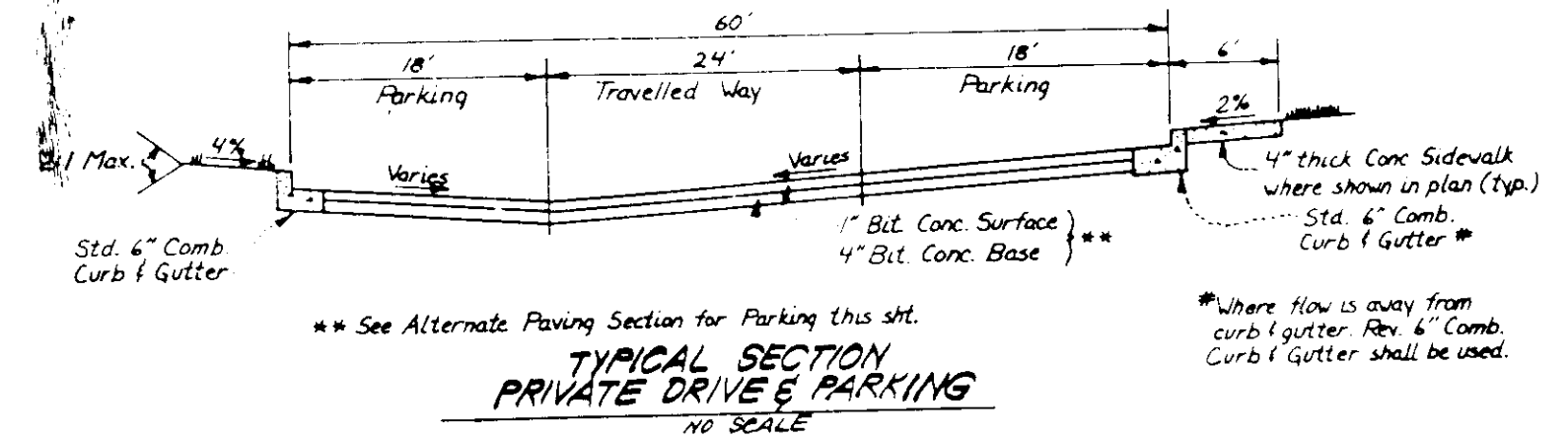
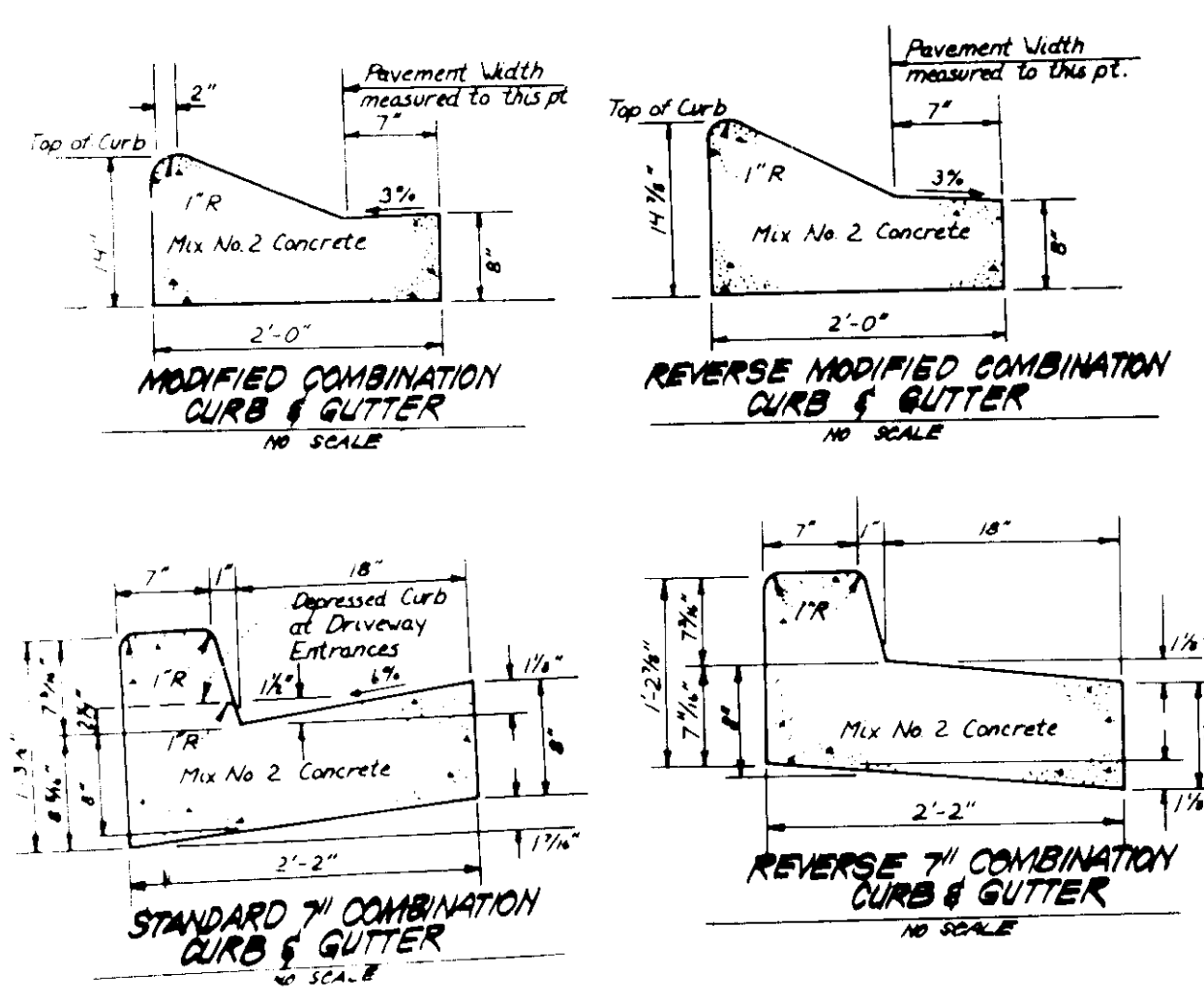
**CLARK · FINEFROCK & SACKETT**  
ENGINEERS · PLANNERS · SURVEYORS  
11315 LUCKWOOD DRIVE • SILVER SPRING, MARYLAND 20904 • (301) 593-3400

DESIGNED: WHT	<b>SITE DEVELOPMENT PLAN</b> <b>PARCEL B-1</b> <b>COLUMBIA</b> VILLAGE OF DORSEY'S SEARCH SECTION 3 AREA 1 5TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND FOR: KEHOE HOMES OF ALLVIEW, INC. 7130 Minstrel Way - #200 Columbia, Maryland 21045 <b>SDP-86-281</b>	SCALE: 1"=30'
DRAWN: JTR, KIW		DRAWING: 2 OF 3
CHECKED: WHT		JOB NO.: 85/135
DATE: 6-25-86		FILE NO.: 85/135-X

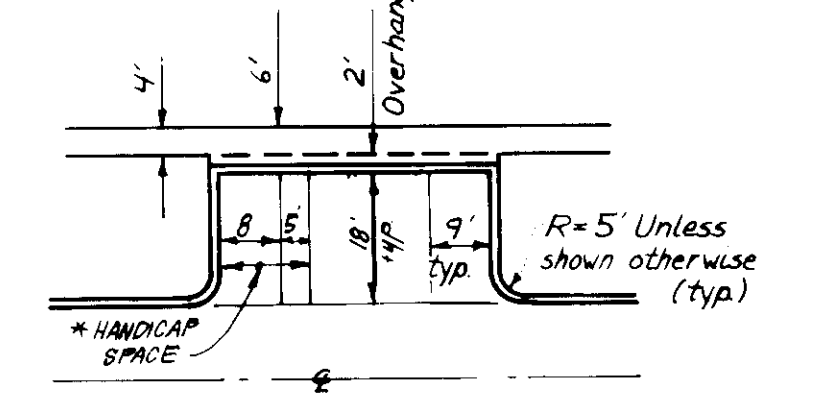


PROFILE PRIVATE DRIVE

SCALES: HORIZ 1"=100'  
VERT 1"=10'

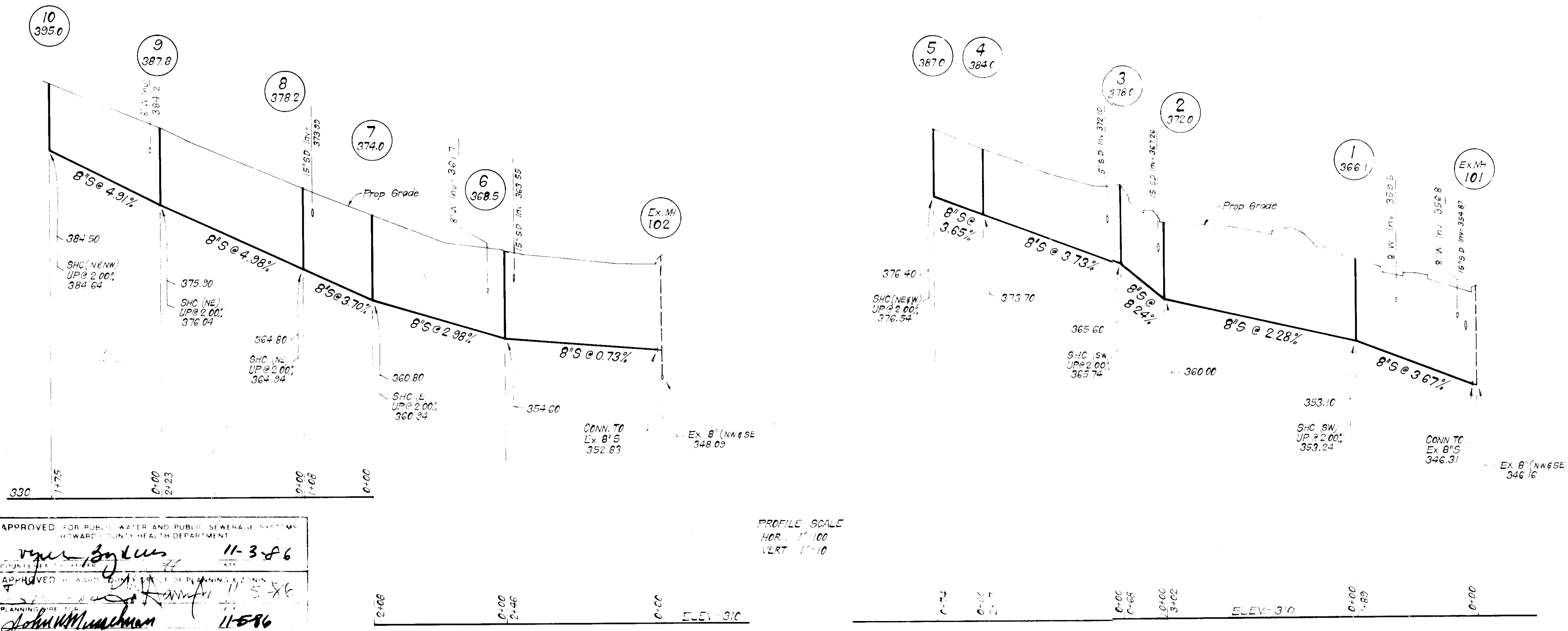


Bituminous Conc Surface	1"
Bituminous Conc Base	2"
Prime	
5" Crusher Run Base Course	5" or 4"
or	
4" Dense Graded Stabilized Aggregate Base Course	4"



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

TYPICAL PARKING



PROFILE SCALE  
HOR. 1"=100'  
VERT 1"=10'

**WATER AND SEWER NOTES**

- All sewer mains shall be PVC, CSPX, VCPX or ACP Class 2400, except where otherwise noted.
- All construction methods and materials for on-site private water and sewer systems shall follow the current edition of the Howard County Std Details and Specifications where necessary.
- All water mains to be D.I.P.
- All water mains to have a Minimum of 3.5ft of cover.
- Block all water main fittings with concrete.
- Sewer House Connections shall be built to within 5ft of buildings at a slope of 2.00%, unless otherwise shown on plan or profile.

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

*John W. Murchison* 11-3-86

PLANNING DEPT. 11-5-86

7-23-86

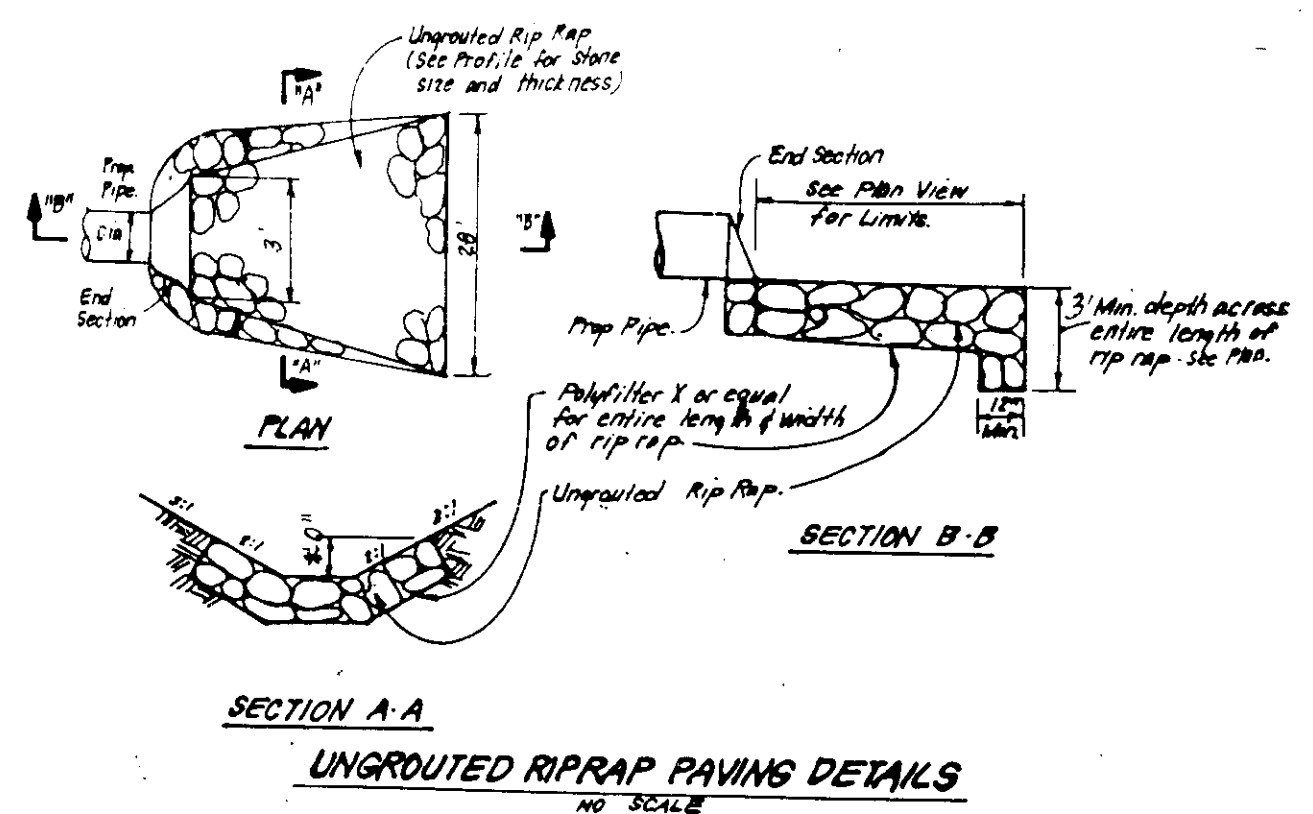
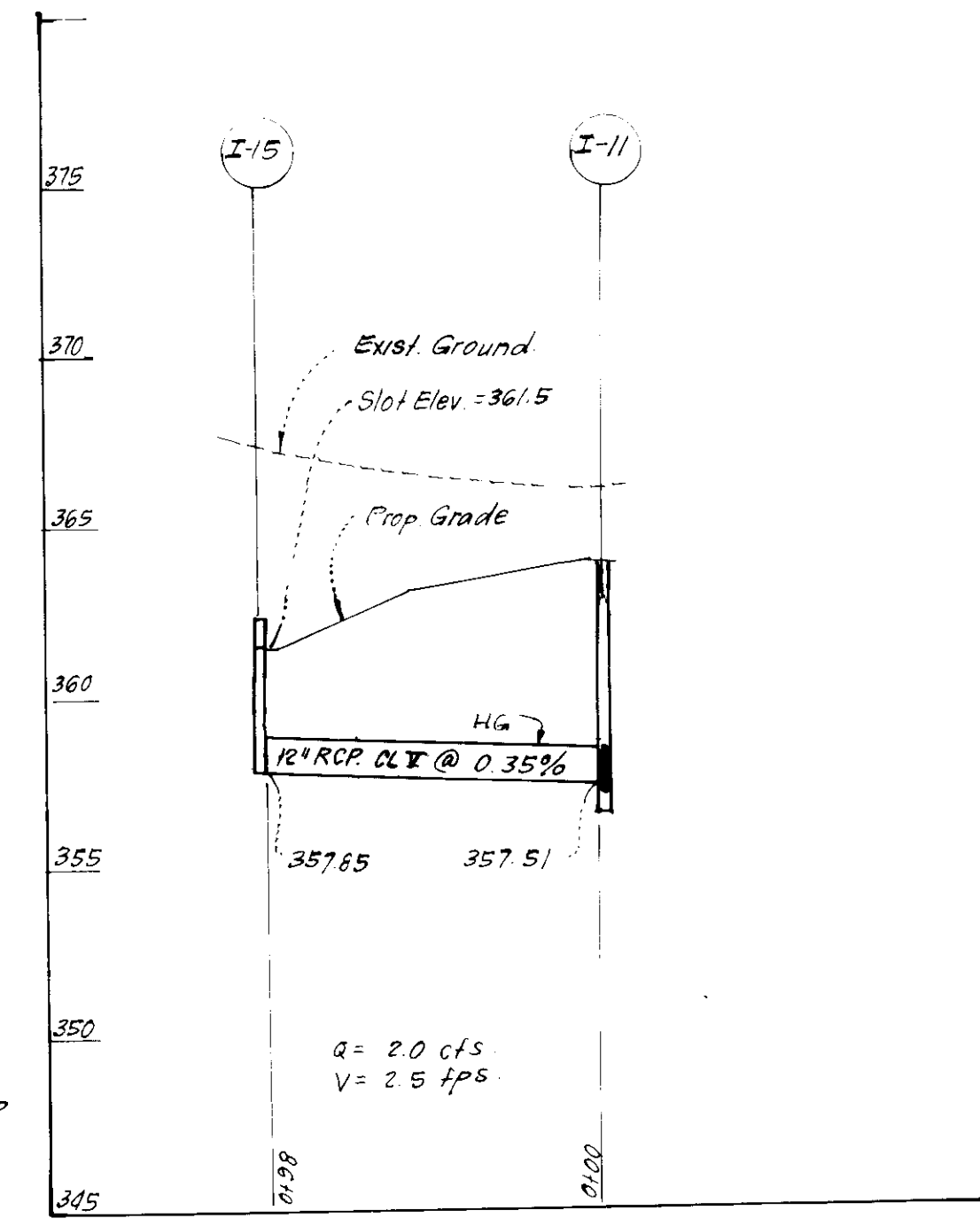
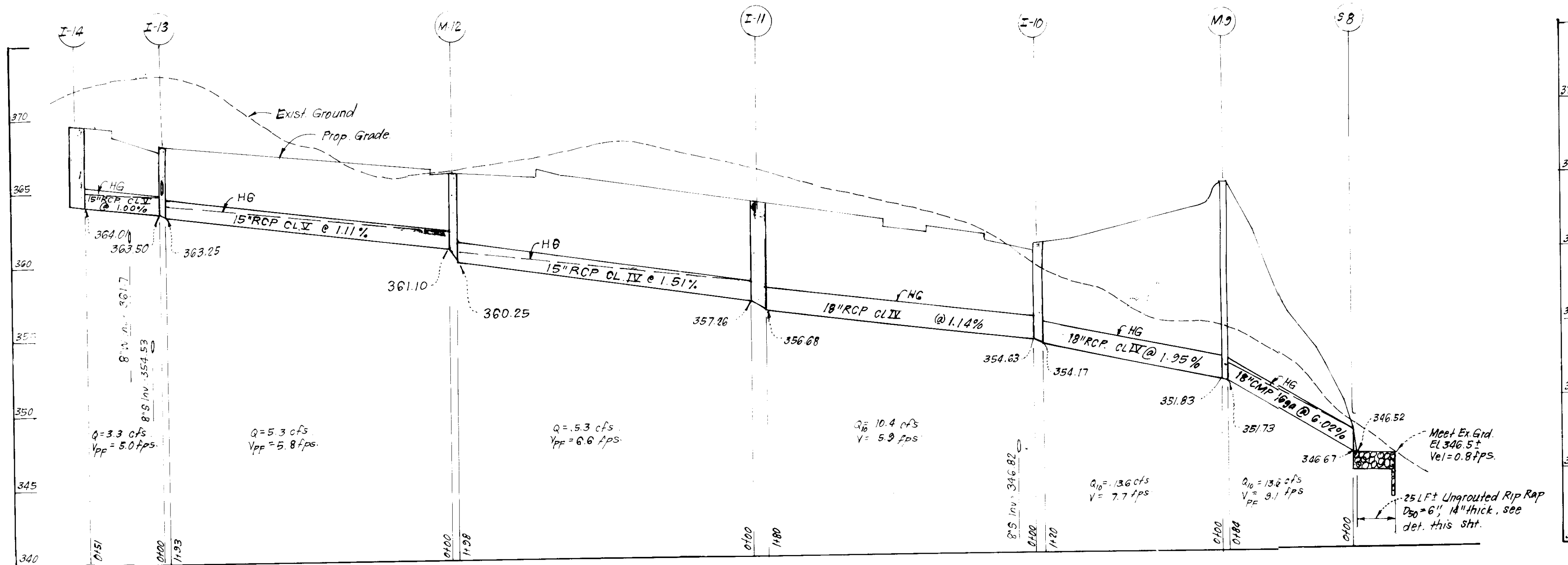
**CLARK · FINEFROCK & SACKETT**  
ENGINEERS · PLANNERS · SURVEYORS

11311 LOCKWOOD DRIVE SILVER SPRING, MARYLAND 20904 301-593-3400

DESIGNED	JLS	SITE DEVELOPMENT PLAN PARCEL B-1 PAYING DETAILS AND WATER & SEWER PROFILES	SCALE 1"=30'
DRAWN	JTR, KIW	COLUMBIA	DRAWING 3'-9
CHECKED	JLS	VILLAGE OF DORSEY'S SEARCH SECTION 3 AREA 1 5TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND	JOB NO. 85135
DATE	6-25-86	FOR HERDE HOMES AS ALLOWED BY 130 M. H. & S. CO.	FILE NO. 85135

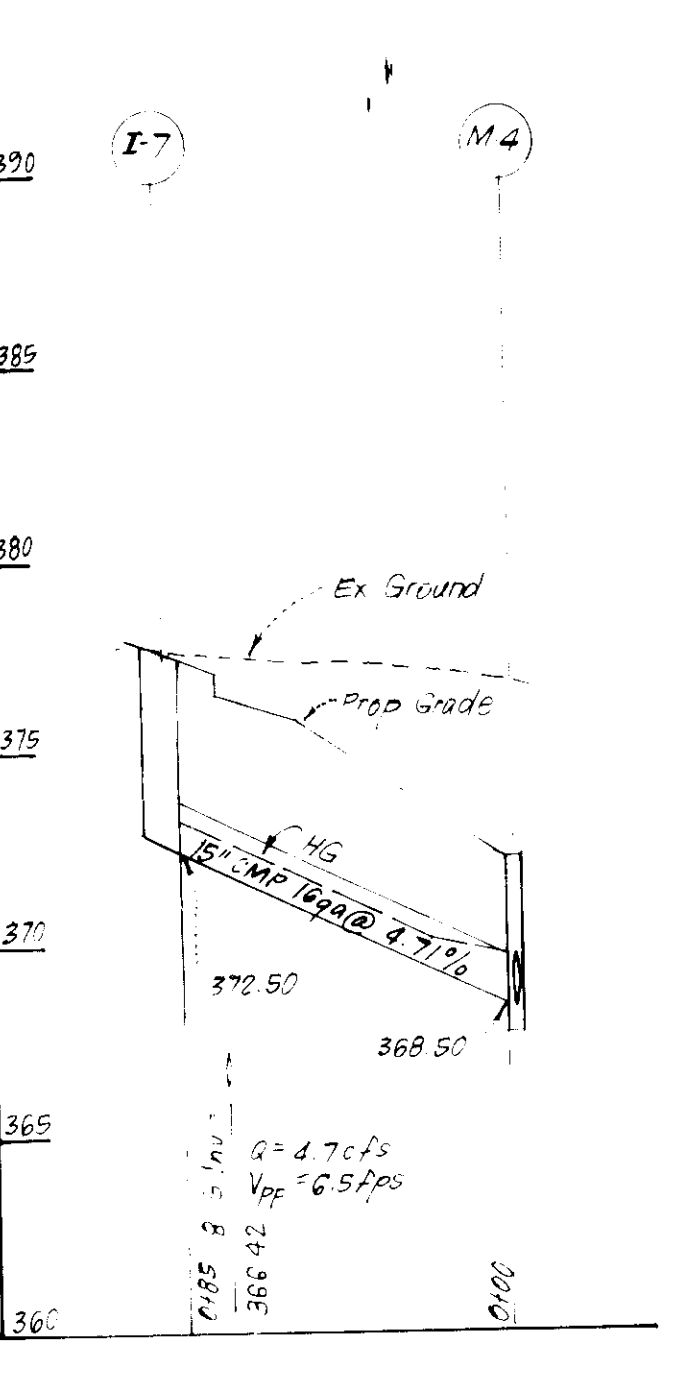
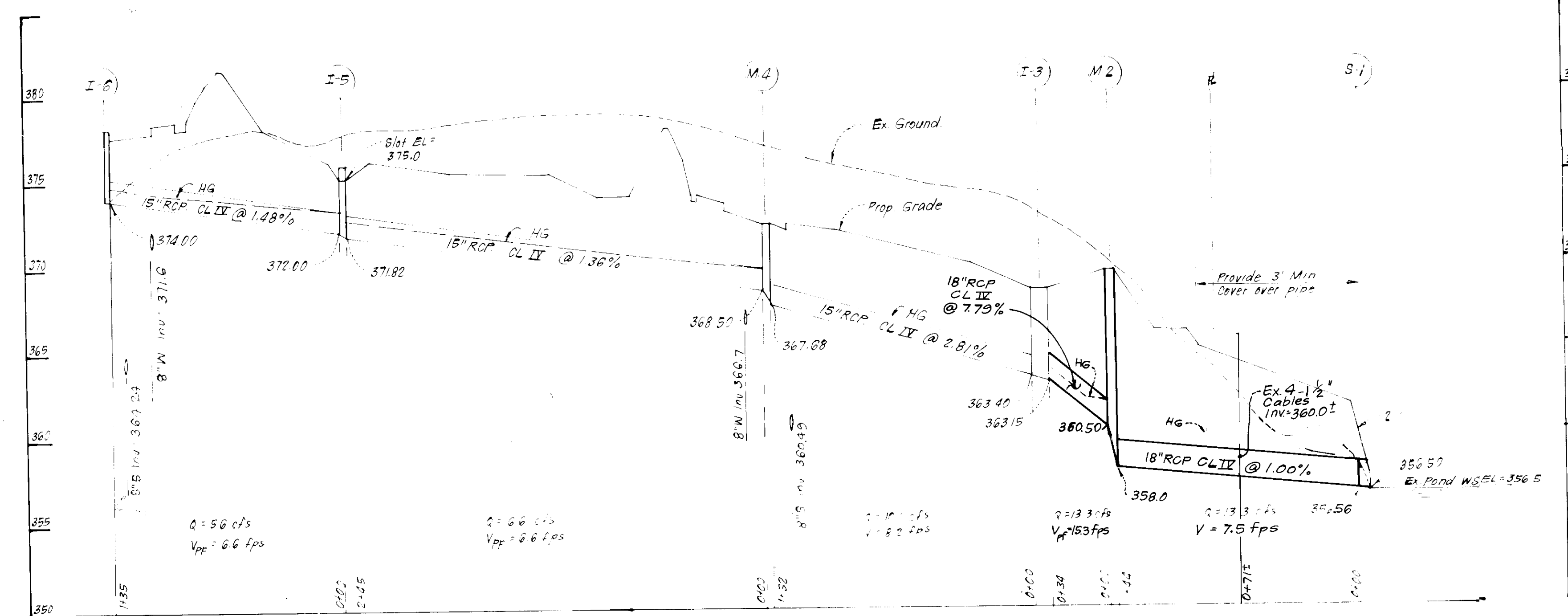
SDP-86-281c





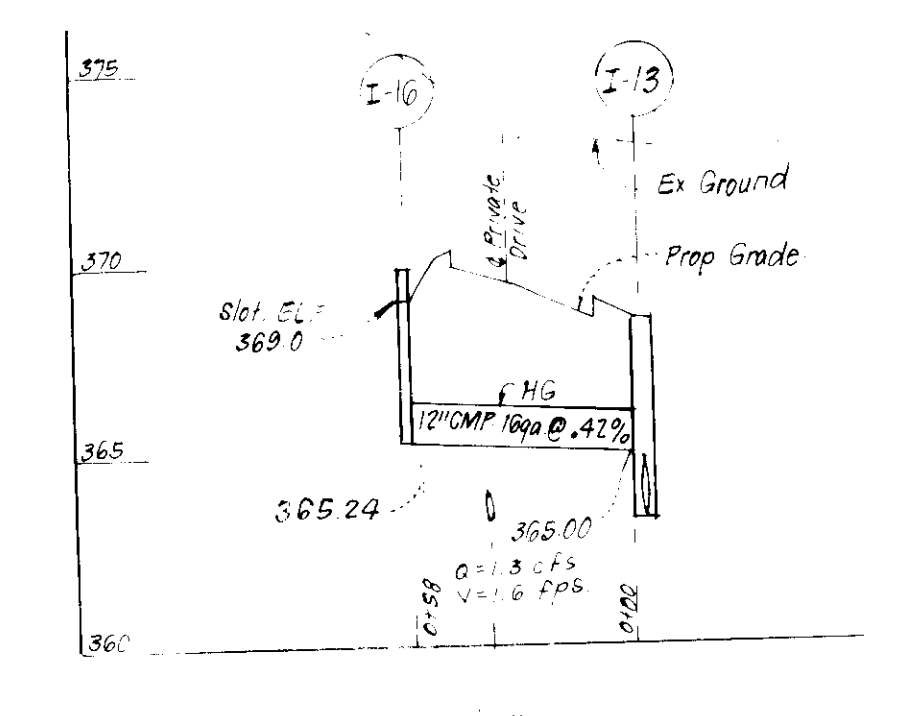
SIZE	TYPE	LENGTH
12"	RCP CL II	98 LF
15"	RCP CL IV	730 LF
15"	RCP CL II	244 LF
15"	CMP 16ga	85 LF
18"	RCP CL II	478 LF
18"	CMP 16ga	82 LF
12"	CMP 16ga	58 LF

\* 2 1/2" x 1/2" Corrugations



No.	TYPE	INV. IN	INV. OUT	TOP ELEVATION		REMARKS	LOCATION
				UPPER	LOWER		
S-1	Concrete End Section	356.96	356.90	-	-	See Plan	See Plan
M-2	Brick Manhole	360.50	358.00	360.50	358.00		
I-3	A-10 Inlet	363.40	363.75	363.54	363.54		
M-4	Shallow Brick Manhole	367.50	367.68	367.50	367.68		
I-5	D Inlet	372.00	371.82	371.82	371.82		
I-6	A-10 Inlet w/Deflectors	-	374.00	374.38	372.94		
I-7	A-10 Inlet w/Deflectors	374.00	374.50	374.54	372.50		
S-8	Metal End Section	346.27	346.52	-	-		
M-9	Brick Manhole	351.83	351.73	365.00	365.00		
I-10	A-10 Inlet	354.63	354.17	360.90	360.90		
I-11	A-10 Inlet	356.68	356.05	364.05	363.97		
M-12	Shallow Brick Manhole	361.10	360.25	362.2	362.2		
I-13	A-10 Inlet w/Deflectors	363.00	363.25	368.40	368.34		
I-14	A-10 Inlet	364.01	363.75	369.64	369.64		
I-15	D Inlet	367.85	367.33	367.33	367.33		
I-16	D Inlet	365.24	365.83	365.83	365.83		

\* See Ho Co Std. SD-4.83 for Inlet Deflectors  
 # Provide slots in all sides  
 + See Ho Co Std. R-3.06 for Curb Transition and Inlet Stakeout.



**STORM DRAIN PROFILES**

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS  
 HOWARD COUNTY HEALTH DEPARTMENT  
 COUNTY HEALTH OFFICER: *[Signature]* DATE: 11-3-86

APPROVED: HOWARD COUNTY OFFICE OF PLANNING & ZONING  
 PLANNING DIRECTOR: *[Signature]* DATE: 11-5-86

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE  
 STORM DRAINAGE SYSTEMS AND PUBLIC ROADS  
 HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS  
 DIRECTOR: *[Signature]* DATE: 7-23-86

7-23-86  
*[Signature]*

Howard

10-15-86  
*[Signature]*

10-23-86  
*[Signature]*  
 Nelson Clark Date

No.	REVISION	DATE
1	Revised Storm Drainage I-3 to S-1	7-20-87

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

DESIGNED: *[Signature]* SCALE: 1"=30'

DRAWN: *[Signature]* DRAWING: 40F-9

CHECKED: *[Signature]* JOB NO.: 85135

DATE: 6-25-86 FILE NO.: 85135 X

**SDP-86-281c**



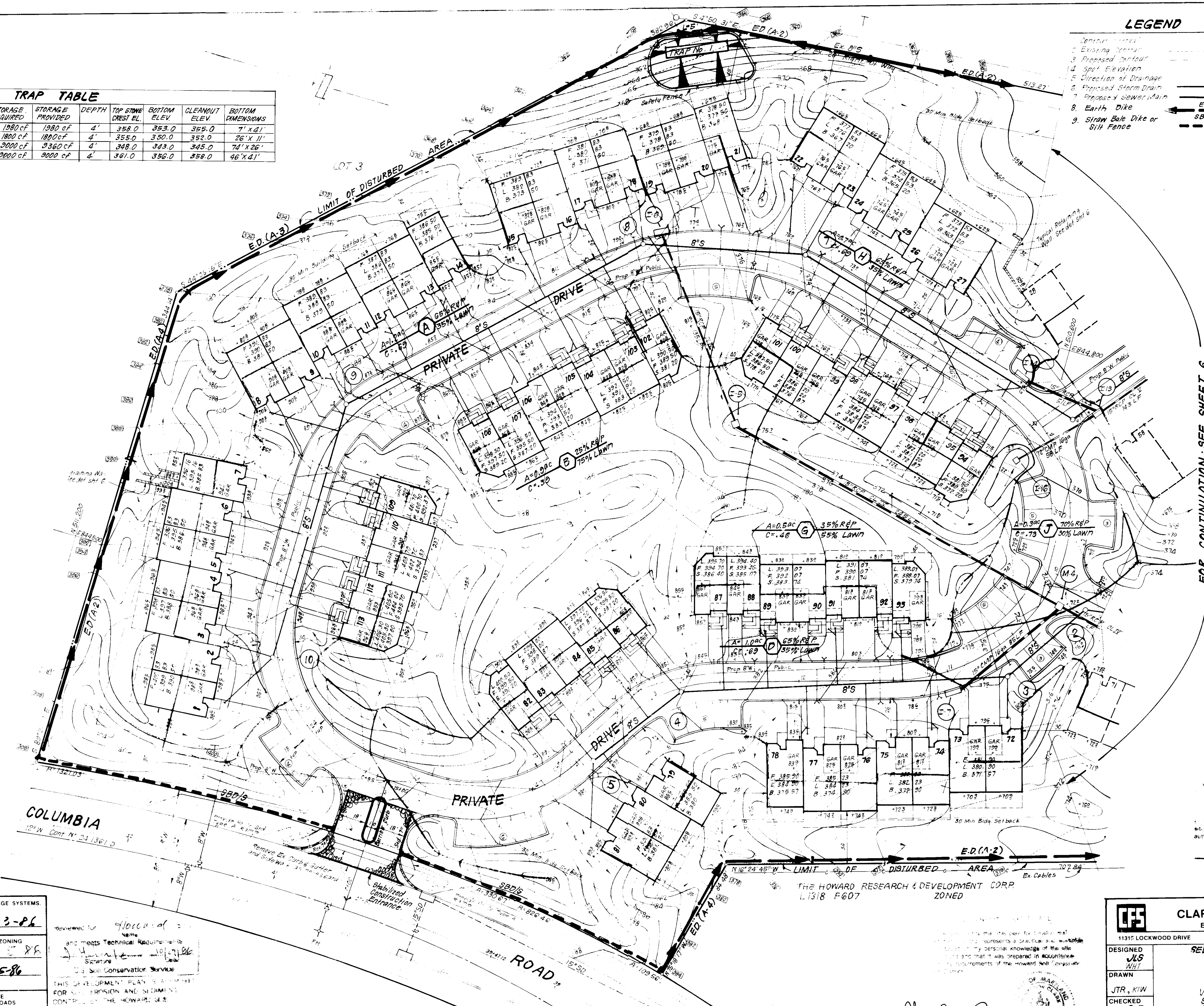
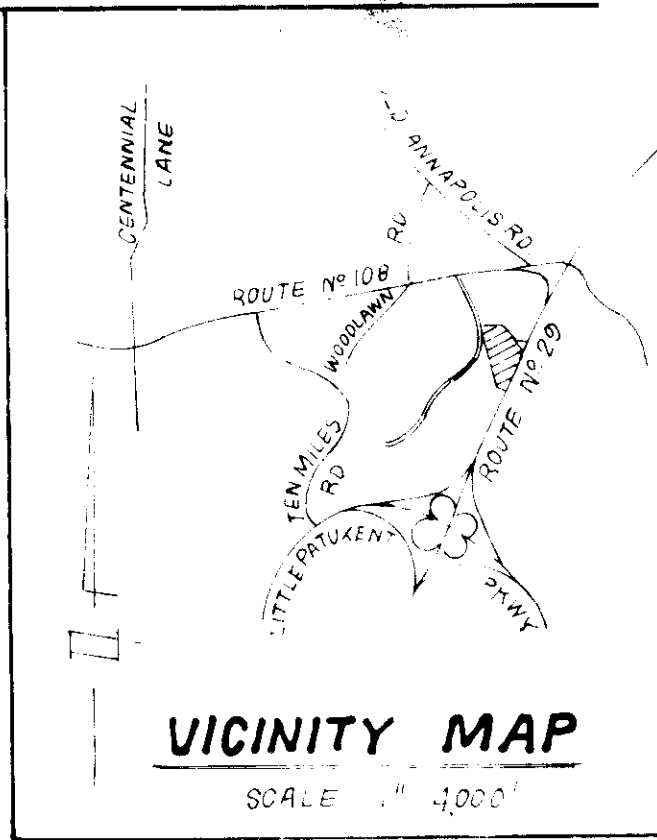
**SEDIMENT TRAP TABLE**

TRAP No.	TYPE OF TRAP	DRAINAGE AREA	STORAGE REQUIRED	STORAGE PROVIDED	DEPTH	TOP BDM CREST EL.	BOTTOM ELEV.	CLEANOUT ELEV.	BOTTOM DIMENSIONS
1 *	SO ST ST V	1.1 Ac.	1980 cf	1980 cf	4'	358.0	353.0	355.0	7' X 4'
2 *	SO ST ST V	1.0 Ac.	1800 cf	1800 cf	4'	355.0	350.0	352.0	26' X 11'
3 *	SO ST ST V	5.0 Ac.	3000 cf	3360 cf	4'	348.0	343.0	345.0	74' X 26'
4 *	SO ST ST V	5.0 Ac.	3000 cf	3000 cf	4'	361.0	356.0	358.0	46' X 41'

\* 1:1 Cut Slopes.

**LEGEND**

- 1. Contour Interval
- 2. Existing Contour
- 3. Proposed Contour
- 4. Spot Elevation
- 5. Direction of Drainage
- 6. Proposed Storm Drain
- 7. Proposed Sewer Main
- 8. Earth Dike
- 9. Straw Bale Dike or 8" High Fence



FOR CONTINUATION - SEE SHEET 6

**REGISTERED PROFESSIONAL ENGINEER'S CERTIFICATE**  
 We hereby certify that the equipment and construction will be in accordance with the specifications to permit and plan for the sediment trap and storm drainage system to be installed in accordance with the requirements of the Howard County Department of Public Works and the Department of Planning and Zoning. This certificate is valid for the life of the project and is subject to the provisions of the Howard County Department of Public Works and the Department of Planning and Zoning. The undersigned certifies that he is duly licensed and qualified to perform the duties of a Registered Professional Engineer.  
 W. D. DeLoach, Jr. 6-25-86  
 Secretary of the Board of Engineers

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS,  
 HOWARD COUNTY HEALTH DEPARTMENT  
 [Signature] 11-3-86  
 APPROVED HOWARD COUNTY OFFICE OF PLANNING AND ZONING  
 [Signature] 11-5-86  
 APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE,  
 STORM DRAINAGE SYSTEMS AND PUBLIC ROADS,  
 HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS  
 [Signature] 11-5-86  
 DIRECTOR  
 [Signature] 11-5-86

Reviewed by [Signature] and meets Technical Requirements  
 [Signature] 11-5-86  
 U.S. Soil Conservation Service  
 THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD COUNTY CONSERVATION DISTRICT  
 [Signature] 11-5-86  
 Approved Date

THE HOWARD RESEARCH & DEVELOPMENT CORP.  
 11318 F-607  
 ZONED

[Signature] 6-25-86  
 Nelson Clark  
 Civil Engineer

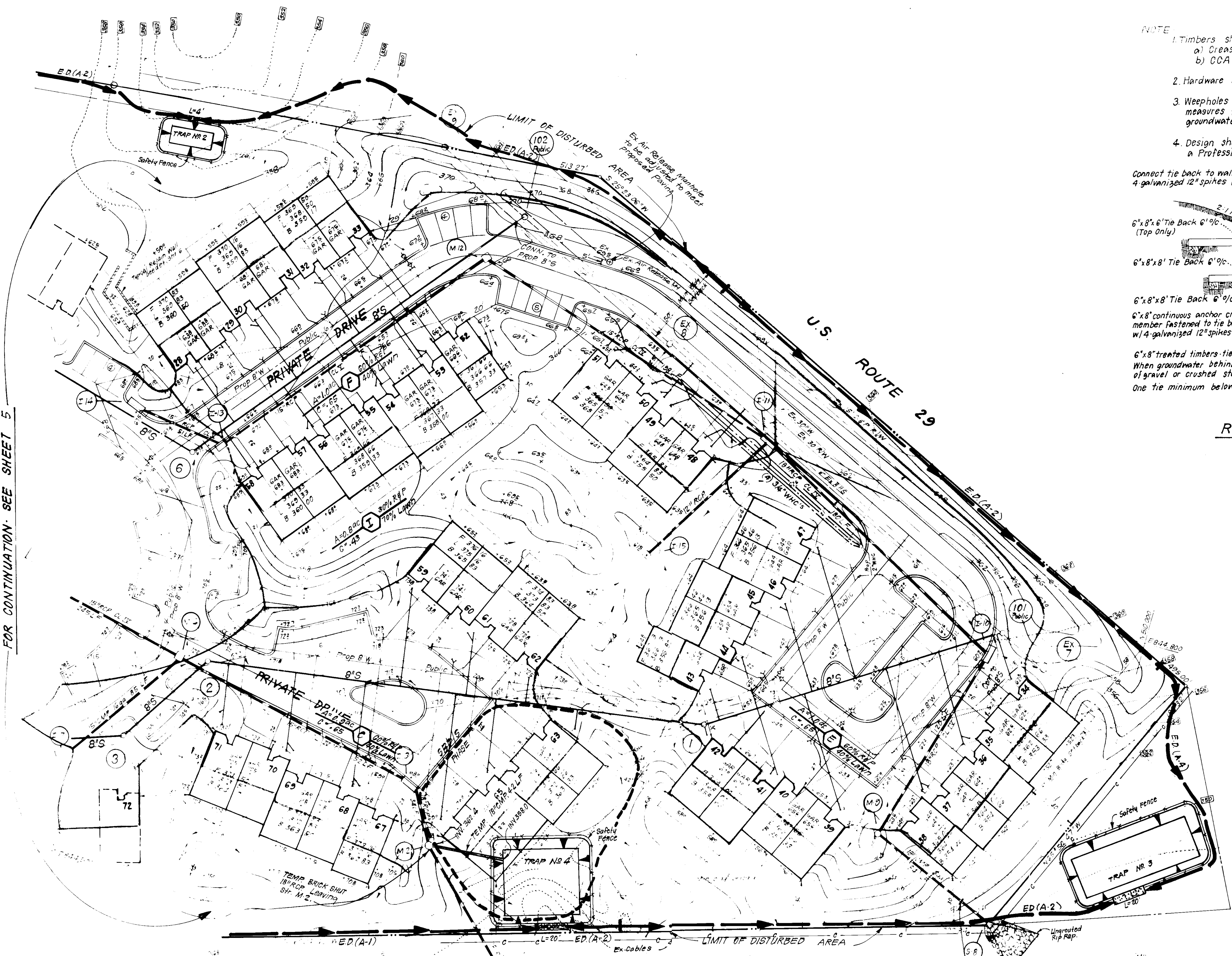
**CLARK · FINEFROCK & SACKETT**  
 ENGINEERS · PLANNERS · SURVEYORS  
 11315 LOCKWOOD DRIVE SILVER SPRING, MARYLAND 20904 (301) 593-3400

DESIGNED JLS WHT	<b>SEDIMENT &amp; EROSION CONTROL PLAN AND DRAINAGE AREA MAP</b> <b>PARCEL B-1</b> <b>COLUMBIA</b> VILLAGE OF DORSEY'S SEARCH SECTION 3 AREA 1 5TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND FOR: KEHDE HOMES OF ALLVIEW, INC. 7130 Minstrel Way - #200 Columbia Maryland 21045	SCALE 1" = 30'
DRAWN JTR, KIW		DRAWING B-0-2
CHECKED GLB		JOB NO. 85135
DATE 6-25-86		FILE NO. 85135 SE

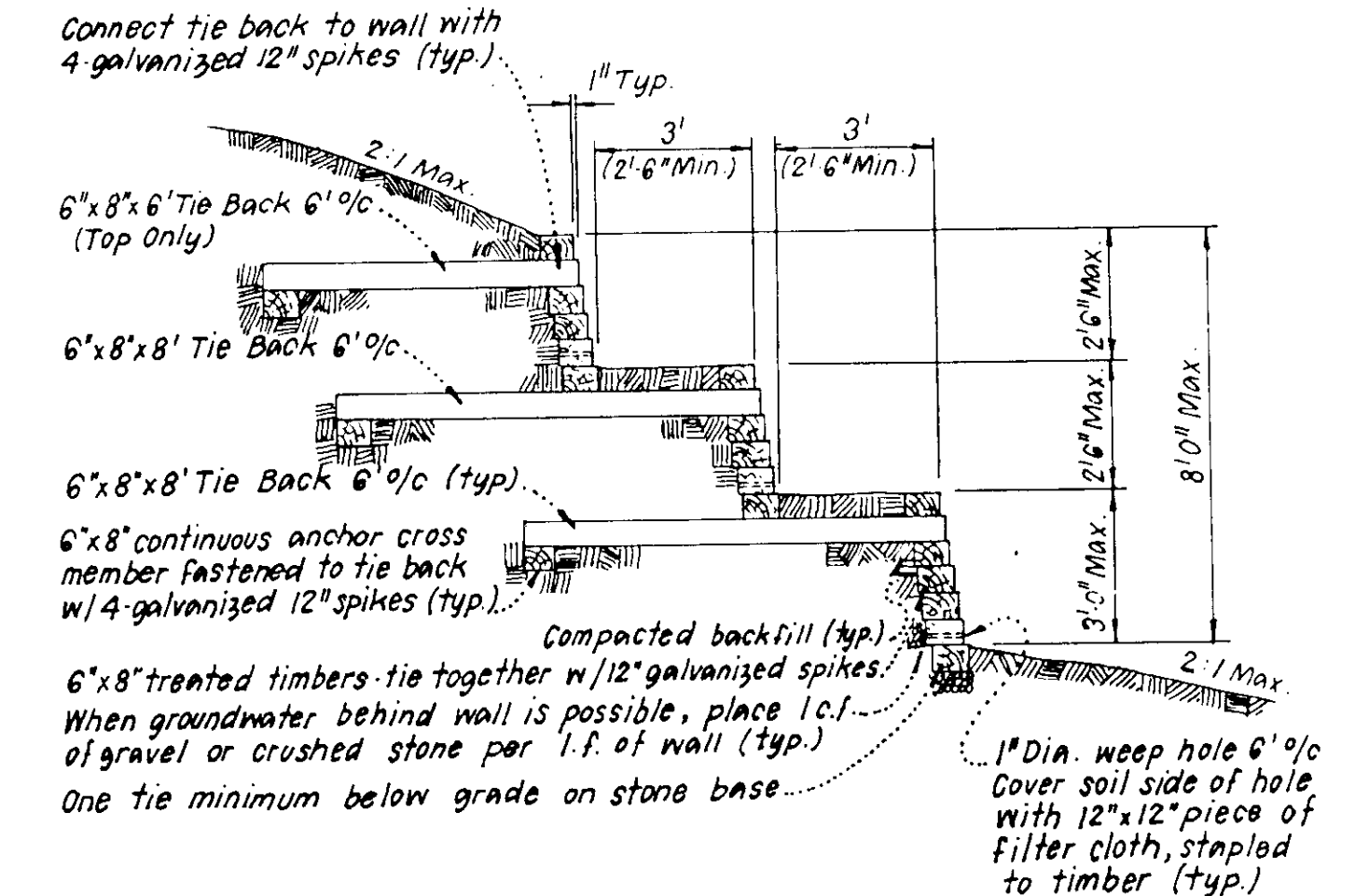
SDP-86-281c



FOR CONTINUATION - SEE SHEET 5



- NOTE
- Timbers shall be either
    - Cresote treated railroad ties
    - CCA treated landscaping timbers (.40 lb/cf retention)
  - Hardware shall be hot dipped galvanized.
  - Weepholes with or without gravel drain are minimum measures for groundwater. For any substantial amount of groundwater, a drain system should be designed and utilized.
  - Design shall be verified for site specific soil condition by a Professional Geotechnical Engineer.



RETAINING WALL DETAIL

I, Walter D. Hoeft, President  
 Signature of Engineer/Builder  
 6-23-86  
 Date

G. Nelson Clark  
 G. Nelson Clark  
 6-23-86  
 Date

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS  
 HOWARD COUNTY HEALTH DEPARTMENT  
[Signature] 11-3-86  
 DATE

APPROVED HOWARD COUNTY OFFICE OF PLANNING & ZONING  
[Signature] 11-5-86  
 DATE

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE  
 STORM DRAINAGE SYSTEMS AND PUBLIC ROADS  
 HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS  
[Signature] 11-5-86  
 DATE

7-23-86  
[Signature]

Reviewed for Special  
 and meets technical requirements of  
[Signature] 10-1-86  
 DATE

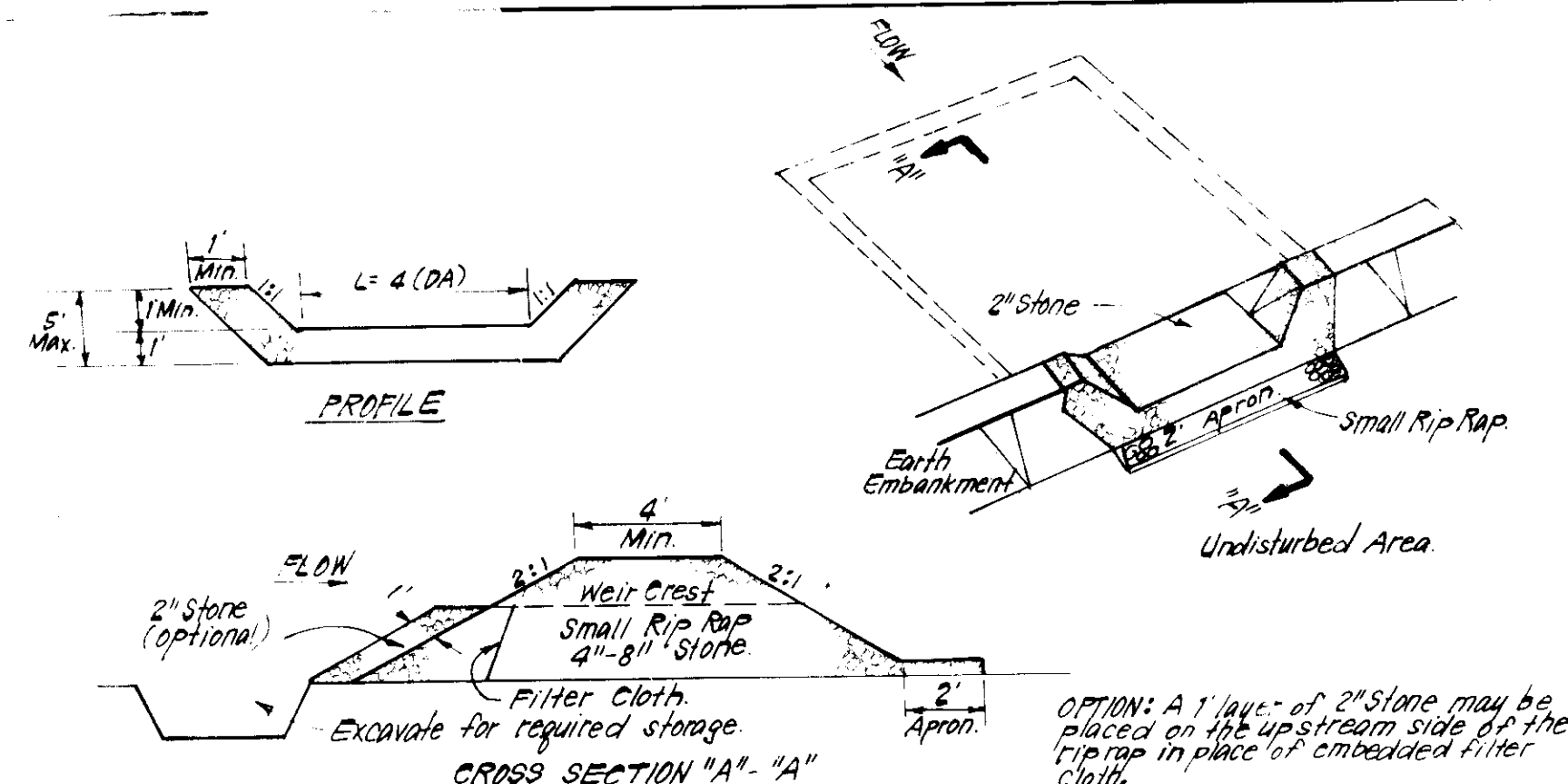
U.S. Soil Conservation Service  
 DEVELOPMENT PLAN & APPROVED  
 FOR EROSION AND SEDIMENTATION  
 CONTROL OF THE HOWARD COUNTY  
 DISTRICT  
[Signature] 10-1-86  
 DATE

1	Revised Private Drive alignment & grade	3-30-87
NO	REVISION	DATE

<b>CLARK • FINEFROCK &amp; SACKETT</b> ENGINEERS • PLANNERS • SURVEYORS 11317 LOCKWOOD DRIVE • SILVER SPRING, MARYLAND 20904 • (301) 594-8400		
DESIGNED JLS	<b>SEDIMENT &amp; EROSION CONTROL PLAN          AND DRAINAGE AREA MAP          PARCEL B-1          COLUMBIA</b> VILLAGE OF DORSEY'S SEARCH SECTION 3 AREA 1 5TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND FOR KENNE HOMES OF ALLVIEW, INC. 7150 Minstre Way #200 Columbia, Maryland 21045	SCALE 1" = 30'
DRAWN JTR		DRAWING 6-01
CHECKED GLB		JOB NO 85135
DATE 3-25-87		FILE NO 85135-02

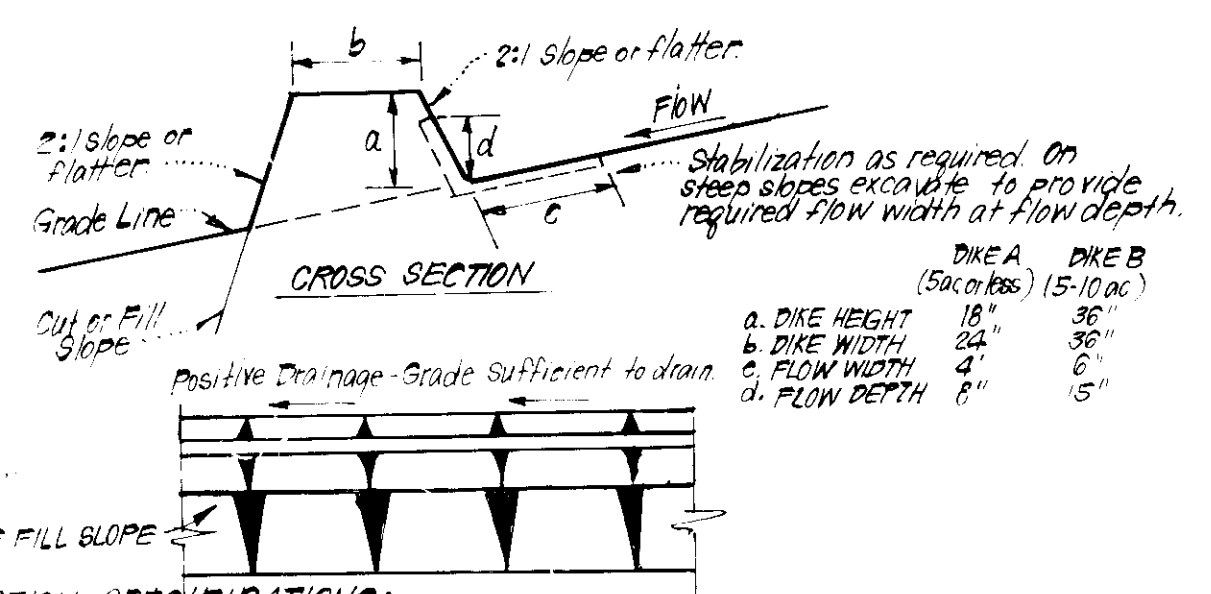
SDP-86-281





- CONSTRUCTION SPECIFICATIONS:**
- Area under embankment shall be cleared, grubbed and stripped of any vegetation and root mat. The top area shall be cleared.
  - The fill material for the embankment shall be free of roots and other woody vegetation as well as oversized 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-slope 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.
  - Construction 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.S.T.) STV.**  
NO SCALE



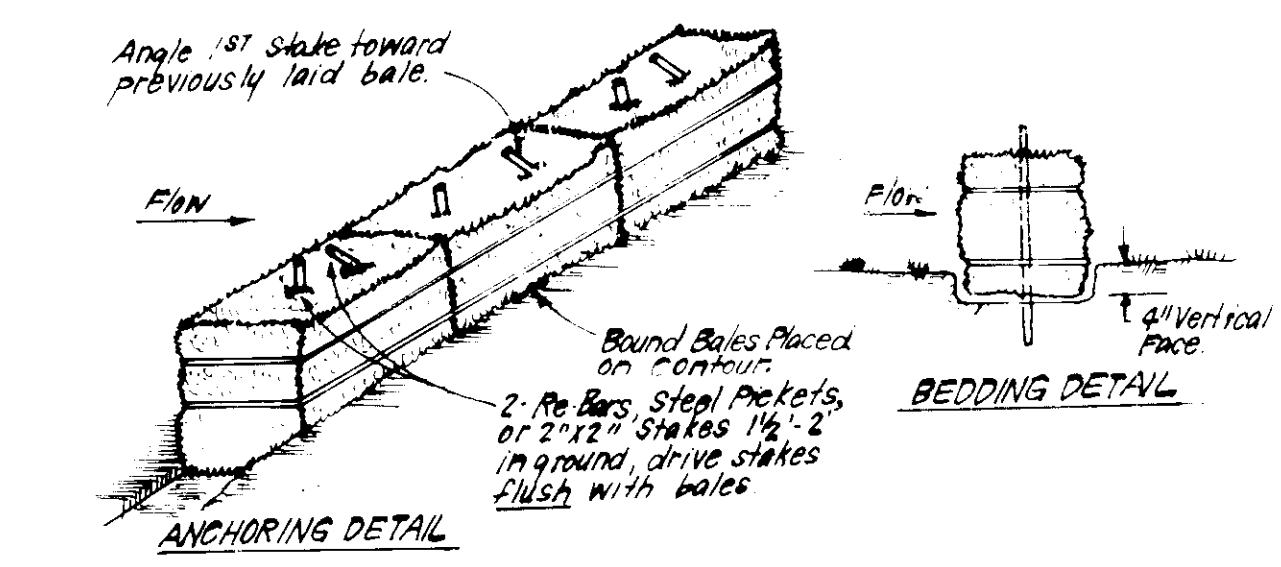
- CONSTRUCTION SPECIFICATIONS:**
- 4" dikes shall be compacted by earth-moving equipment.
  - All dikes shall have positive drainage to an outlet.
  - Top widths may be wider and side slopes may be flatter if desired to facilitate passing by construction traffic.
  - Field location should be adjusted as needed to utilize a stabilized safe outlet.
  - Earth dikes shall have an outlet that functions with a minimum of erosion. Runoff shall be conveyed to a sediment trapping device such as a sediment trap or sediment basin where either the dike diameter or the drainage area above the dike are not adequately stabilized.
  - Diagrams shown shall be: (A) in accordance with standard specifications for seed 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	DIKE A	DIKE B
1	Grass	Seed & Straw Mulch	Seed or Straw Mulch
2	Grass	Seed & Straw Mulch	Seed or Straw Mulch
3	Grass	Seed or Straw Mulch	Seed or Straw Mulch
4	Grass	Seed or Straw Mulch	Seed or Straw Mulch

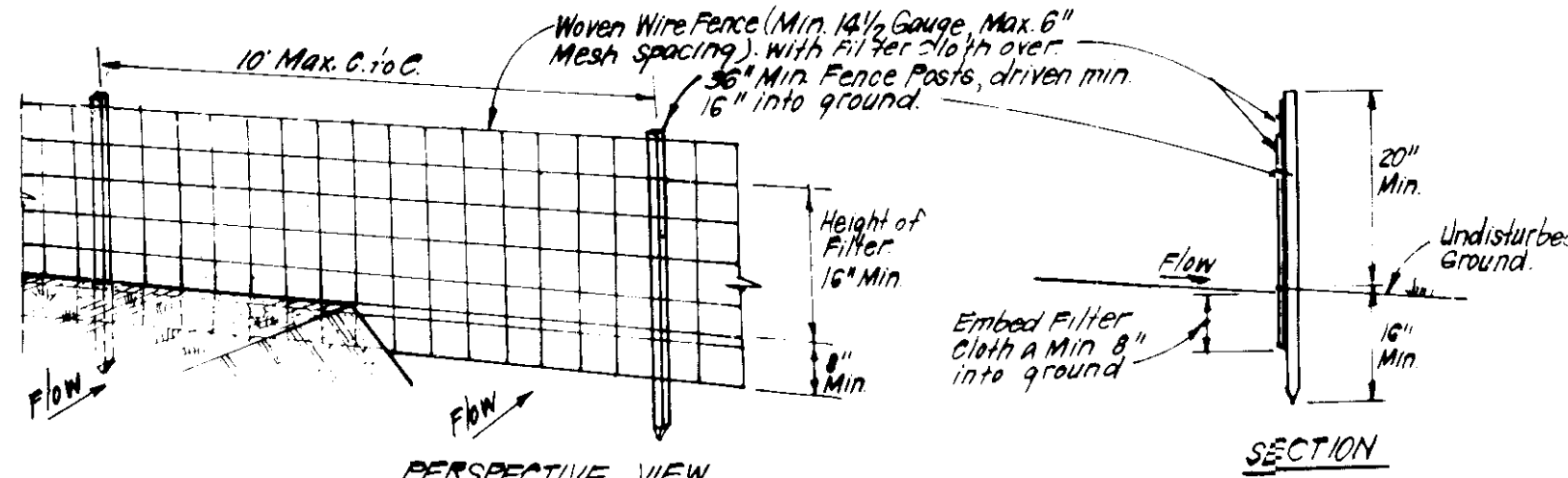
A Stone or 2" Stone, or recycled concrete equivalent, in a layer at least 3" thick and be pressed into soil with construction equipment.  
B Rip Rap to be 4"-8" in a layer at least 8" thick, pressed into soil.  
A Approved equivalents can be substituted for any of the above materials.

**EARTH DIKE DETAIL (E.D.)**  
NO SCALE



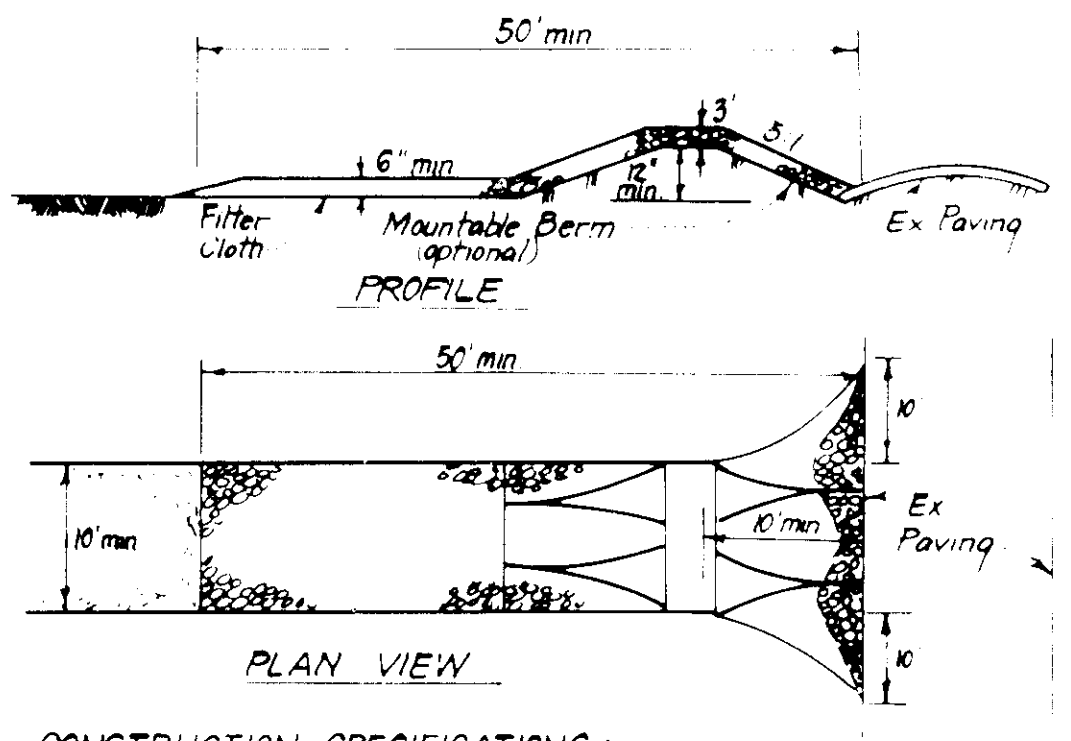
- CONSTRUCTION SPECIFICATIONS:**
- Bales shall be placed at the top of a slope or on the contour and in a row with ends tightly abutting the adjacent bales.
  - Each bale shall be embedded in the soil a min. of 4" and placed so the bindings are horizontal.
  - Bales shall be securely anchored in place by either 2" stakes or re-bars driven thru the bale. The 1st stake in each bale shall be driven toward 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



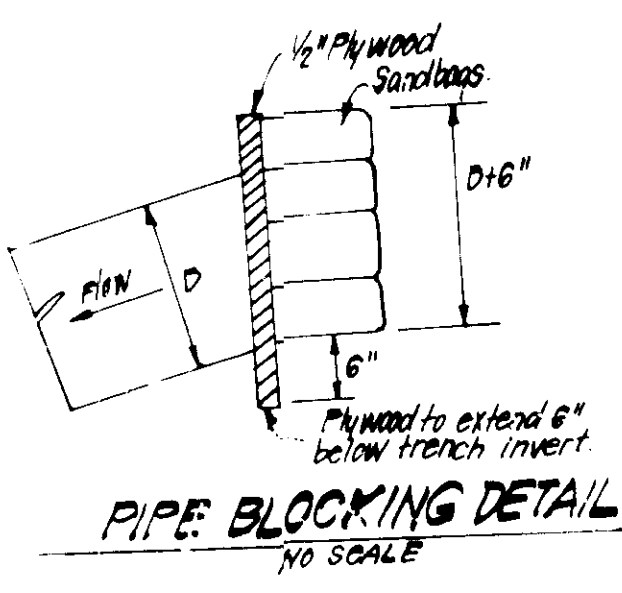
- CONSTRUCTION SPECIFICATIONS:**
- Woven wire fence to be fastened securely to fence posts with wire ties or staples.
  - Filter cloth to be fastened securely to woven wire fence with ties spaced every 24" at top and mid section.
  - When 2 sections of filter cloth adjoin each other they shall be overlapped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

**SILT FENCE DETAIL (S)**  
NO SCALE



- 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 single residence 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 or egress 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 diverted toward construction entrances shall be piped across the entrance. If piping is impractical, a mountable berm with 5:1 slopes will be permitted.
  - 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 cleanup 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 (SCE)**  
NO SCALE



**PIPE BLOCKING DETAIL**  
NO SCALE

**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 Amendment:** In lieu of soil test recommendations, use one of the following schedules:
- Preferred - Apply 2 tons per acre dolomitic limestone (92 lbs/1000 sq 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).
  - 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.

**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 Amendment:** 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 25 bushel per acre of annual rye (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**

- 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 seeding (Sec. 50) and mulching (Sec. 52). Temporary stabilization with mulch alone can only be done when recommended seeding dates do not allow for proper germination and establishment of grasses.
- 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	12.138 Acres
Area Disturbed	12.138 Acres
Area to be roofed or paved	4.728 Acres
Area to be vegetatively stabilized	7.410 Acres
Total Cut	29,500 Cu. yds
Total Fill	35,000 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 DW 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. N/A
- All pipes to be blocked at the end of each day (see detail below).
- The total amount of straw bale dikes/silt fence equals 825 L.F.

**CONSTRUCTION SEQUENCE**

CONSTRUCTION SEQUENCE	No. of Days
1. Obtain Grading Permit	2 days
2. Construct Sediment & Erosion Control Measures	14 days
3. Clear and Rough Gravel Site	61 days
4. Construct Storm Drainage. Temporarily end pipe from M-2 to S-B where shown in plan and construct Temp. 18" CMP and Brick Shut 18" ROP leaving Str. M-2	30 days
5. Construct Utilities	90 days
6. Fine grade and construct paving driveways and buildings except buildings 63 thru 66.	360 days
7. Stabilize all disturbed areas onsite in accordance with stds and specs.	50 days
8. Upon approval of the Sediment Control Inspector remove Sediment and erosion control measures and stabilize and construct remaining storm drainage.	30 days
9. Install phase II SODS and construct buildings 63 thru 66 and stabilize any areas disturbed during construction in accordance with stds. and specs.	60 days
10. Upon approval of the sediment control Inspector remove SBD/S and stabilize.	1 day

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

APPROVED HOWARD COUNTY OFFICE OF PLANNING & ZONING

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE  
STORM DRAINAGE SYSTEMS AND PUBLIC ROADS  
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

APPROVED

APPROVED

APPROVED

APPROVED

APPROVED

APPROVED

APPROVED

**CLARK • FINEFROCK & SACKETT**  
ENGINEERS • PLANNERS • SURVEYORS

13135 LOCKWOOD DRIVE • SILVER SPRING, MARYLAND 20904 • (301) 583-3400

DESIGNED BY WHT  
DRAWN BY JTR, KIW  
CHECKED BY WHT  
DATE 6-25-86

SCALE 1"=20'  
DRAWING TOP 3  
JOB NO. 85-135  
FILE NO. 85-135 SE

**SEDIMENT & EROSION CONTROL DETAILS**  
PARCEL B-1  
**COLUMBIA**  
VILLAGE OF DORSEY'S SEARCH  
SECTION 3 AREA 1  
5TH ELECTION DISTRICT  
HOWARD COUNTY, MARYLAND  
FOR: KEHDE HOMES OF ALLVIEW, INC.  
7130 Minstrel Way - #200  
Columbia, Maryland 21045

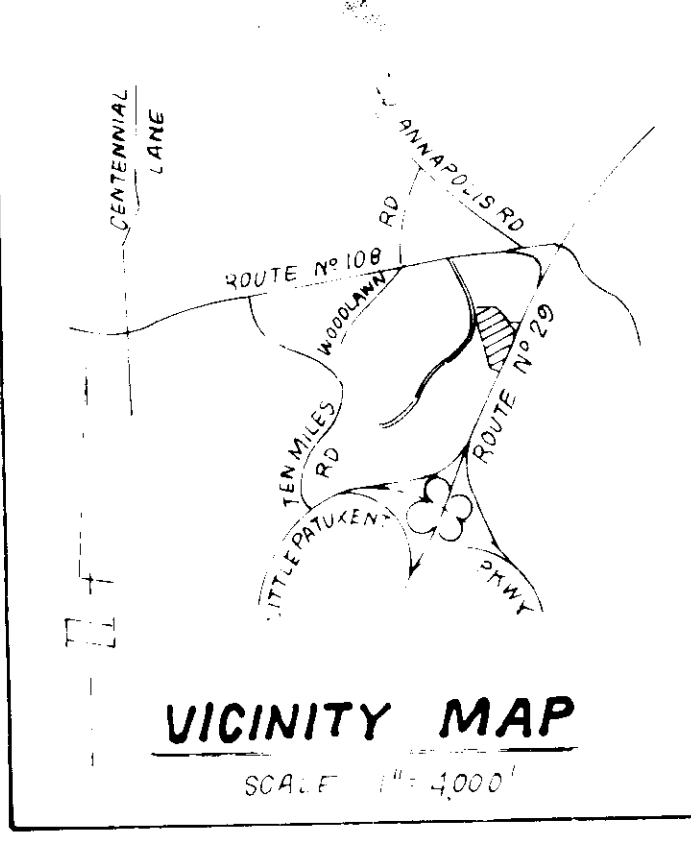
**SDP-86-281c**





**LEGEND**

- 1 Contour Interval 2'
- 2 Existing Contour
- 3 Proposed Contour
- 4 Spot Elevation
- 5 Direction of Drainage
- 6 Proposed Storm Drain
- 7 Proposed Sewer Main



**COLUMBIA**  
12" W. Cont. No. 241361-D

THE HOWARD RESEARCH & DEVELOPMENT CORP.  
L1318 F607 ZONED

REFERENCE FILES: PDP 191A3 F 86263 S 86613 VP 8682

SUBDIVISION NAME	COLUMBIA	SECT./AREA	3/1	LOT/PARCEL	PARCEL B
Village of Dorsey's Search					
PLAT #	BLOCK # ZONE	TAX/ZONE MAP/ELEC DIST	3/C	5	
	2 & 15 INT. APT.				
WATER CODE		SEWER CODE			

7-23-86  
M. J. W. M.

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

*John G. Boyles* 11-3-86  
COUNTY HEALTH OFFICER DATE

APPROVED: HOWARD COUNTY OFFICE OF PLANNING & ZONING

*John W. Lusselman* 11-5-86  
PLANNING DIRECTOR DATE

CHIEF DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE.  
STORM DRAINAGE SYSTEMS AND PUBLIC ROADS  
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

*John W. Lusselman* 11-5-86  
DIRECTOR DATE

CHIEF BUREAU OF ENGINEERING  
*John W. Lusselman* 11-5-86  
DATE

**CLARK · FINEFROCK & SACKETT**  
ENGINEERS · PLANNERS · SURVEYORS

11315 LOCKWOOD DRIVE • SILVER SPRING, MARYLAND 20904 • (301) 593-3400

DESIGNED: PSB  
DRAWN: JTR, KIW  
CHECKED: WHT  
DATE: 11-4-86

**LANDSCAPE PLANNING PLAN**  
PARCEL B-1

**COLUMBIA**  
VILLAGE OF DORSEY'S SEARCH  
SECTION 3 AREA 1  
5TH ELECTION DISTRICT  
HOWARD COUNTY, MARYLAND

FOR: KEHOE HOMES OF ALLVIEW, INC.  
7130 Minstrel Way - #200  
Columbia, Maryland 21045

SCALE: 1" = 30'  
DRAWING: 25/1  
JOB NO.: 85-135  
FILE NO.: 85-135

SDP-86-281c



# PLANT SCHEDULE

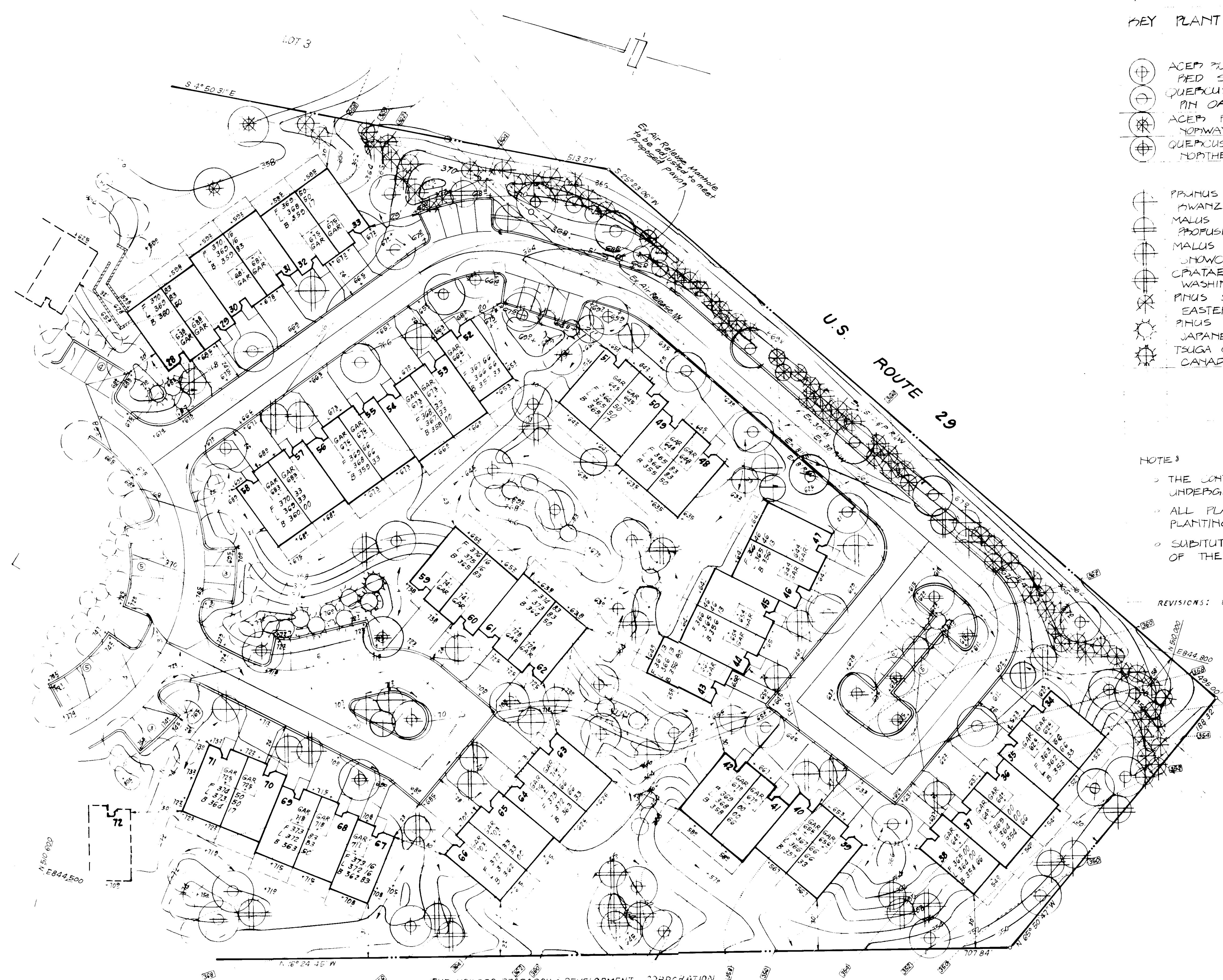
KEY PLANT NAME SIZE QUANT. REMARKS

⊕	ACEP SUBPUM PED SUNSET'	2 1/2-3' CAL	70	5 1/2 B
⊕	PED SUNSET MAPLE	12-14' HT.		HEAVY HEADS
⊕	QUEPXCUS PALUSTRIS		46	
⊕	PN OAK			
⊕	ACEP PLATANOIDES		3	
⊕	TOPWAY MAPLE			
⊕	QUEPXCUS PUBPRA		16	
⊕	NORTHERN PED OAK			
⊕	PRUNUS SEPP. 'KWANZAN'	2-2 1/2' CAL	51	
⊕	AWANZA CHEFNY	8-10' HT.		
⊕	MALUS 'PROFUSION'		20	
⊕	PROFUSION CRAB			
⊕	MALUS SNOWCLOUD		48	
⊕	SNOWCLOUD CRABAPPLE			
⊕	CRATAEGUS PHAETHOPYUM		31	
⊕	WASHINGTON HAWTHORN			
⊕	PINUS STROBLIS	6-8' HT.	110	5 1/2 B HEAVY
⊕	EASTERN WHITE PINE			
⊕	PINUS THUMBORGII		122	
⊕	JAPANESE BLACK PINE			
⊕	TSUGA CANADENSIS		15	
⊕	CANADIAN HEMLOCK			

### NOTES

- THE CONTRACTOR SHALL VERIFY LOCATIONS OF ALL UNDERGROUND UTILITIES PRIOR TO DIGGING.
- ALL PLANTING SHALL COMPLY WITH COLUMBIA H.P.D. PLANTING SPECIFICATIONS.
- SUBSTITUTIONS MAY BE PERMITTED WITH THE APPROVAL OF THE LANDSCAPE ARCHITECT, (593-3400).

REVISIONS: 8-21-86 AS PER HRD



THE HOWARD RESEARCH & DEVELOPMENT CORPORATION  
 L 1318 F 207 ZONED

7-23-86

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS.  
 HOWARD COUNTY HEALTH DEPARTMENT  
 COUNTY HEALTH OFFICER: *James Boyles* 11-3-86  
 APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING  
 PLANNING DIRECTOR: *William W. ...* 11-5-86  
 CHIEF DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION  
 APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS  
 HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS  
 DIRECTOR: *...* 10-31-86  
 CHIEF BUREAU OF ENGINEERING

*Wayne P. ...*

1	Revised Private Drive alignment & grade	3-30-87
REVISION		
NO.	DATE	
SUBDIVISION NAME	COLUMBIA	SECT/AREA
Village of Dorsey's Search	3/1	LOT/PARCEL #
PARCEL B-1		
PLAT #	BLOCK #	ZONE
		PAR/ZONE MAP/ELEC. DIST./CENSUS TR.
WATER CODE	SEWER CODE	
<b>CLARK · FINEFROCK &amp; SACKETT</b> ENGINEERS · PLANNERS · SURVEYORS 11315 LOCKWOOD DRIVE · SILVER SPRING, MARYLAND 20904 · (301) 583-3400		
DESIGNED	LANDSCAPE PLANTING PLAN	SCALE
DBN	PARCEL B-1	1" = 30'
DRAWN	COLUMBIA	DRAWING
JTR, K/W	VILLAGE OF DORSEY'S SEARCH	7053
CHECKED	SECTION 3 AREA 1	JOB NO.
WHT	5TH ELECTION DISTRICT	85/135
DATE	FOR: KENOE HOMES OF ALLVIEW, INC.	FILE NO.
6-24-86	7130 Minstrel Way #200	85/135 L
	Columbia, Maryland 21045	

SDP-86-281c