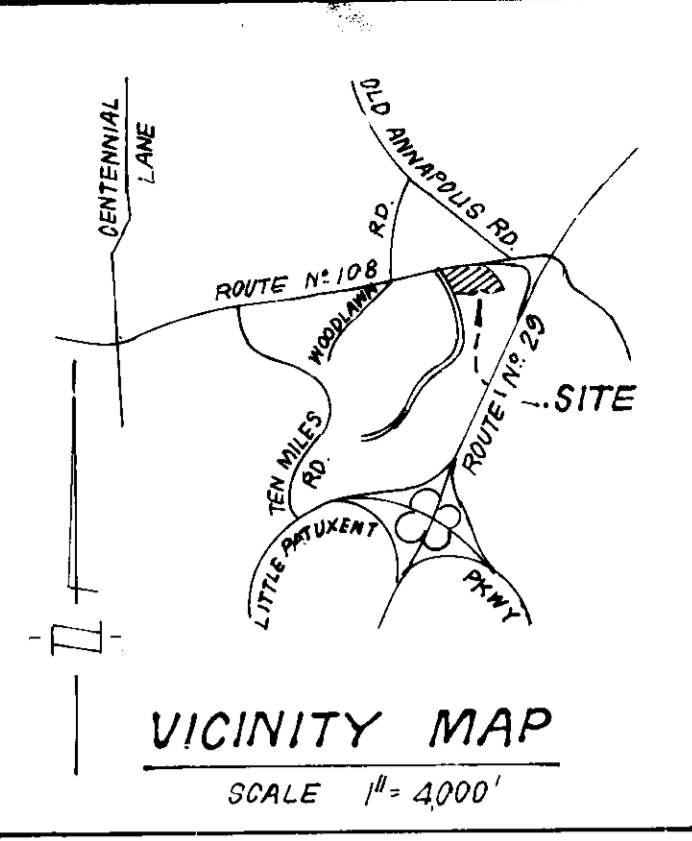
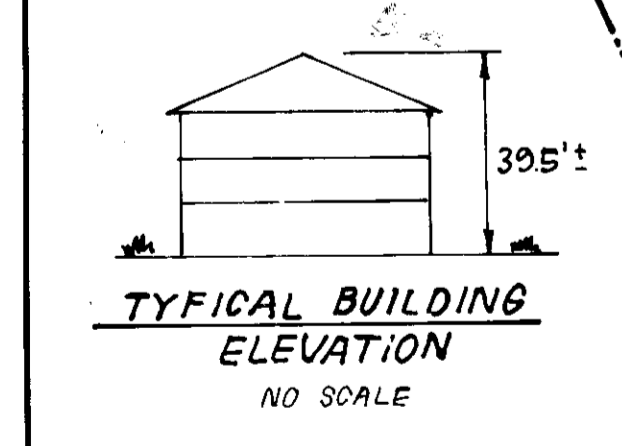


**LEGEND:**

- Contour Interval: 2 FT
- Existing Contour: (dashed line)
- Proposed Contour: (solid line)
- Spot Elevation: (number)
- Direction of Drainage: (arrow)
- Prop. Storm Drain: (line with 'S')
- Prop. Sewer: (line with 'W')
- EXIST. Trees to be Saved: (circle with 'T')
- Handicapped Buildings: (square with 'H')



NOTE:  
Ex 20' Wide Storm Drain Easement to be abandoned within limits shown



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

8-6-86

**CURB & GUTTER LEGEND:**

- Rev 6" C46
- Std 6" C46
- Rev 7" C46
- Std 7" C46

Notes: Transition from 7" to 6" curb height shall be made in the 20' of curb immediately adjacent to the public R/W. Transitions from standard to reverse gutter pans shall be made gradually and in a manner which provides positive drainage.

**GENERAL NOTES:**

1. All materials and construction to be in accordance with Howard County Road Construction Code and Specifications.
2. All setback requirements and criteria as shown on FDP PHASE 101-A.
3. Any damage to County owned rights of way to be corrected at the Developer's expense.
4. Installation of Traffic Control Devices to be in accordance with the latest edition of the "Manual of Uniform Traffic Control".
5. Topography was compiled from Field Survey.
6. All coordinates are based on the Howard County Geodetic Control Survey Traverse which is based on the Maryland State Plane Coordinate System.
7. Trench Bedding shall be in accordance with Howard County Standard Q-2.01.
8. 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 crossings well in advance of construction.
9. The contractor shall contact the Construction Inspection Survey Division 24 hrs. in advance of work at 991-2417 or 702-7272.
10. All downspout drains shall be handled by one of these methods:
  - A. Downspout to splash block and discharged to ground allowing good percolation.
  - B. Downspout in front of units and piped to curb.
  - C. Downspout connected to storm drain.
11. The developer agrees to work with the Dept of Licenses Inspection to resolve any problems caused by roof water discharge.
12. Handicap parking to be in accordance with the Md Bldg. Code for the Handicapped Sect 5.01-7.05 and details sht 2.
13. All driveways and parking to be privately owned and maintained.
14. Storm Water Management for this project has been waived. See previously approved plans F-86-26.
15. This plan subject to Variance Petition VP-86-89.

**UNIT ANALYSIS**

BLOCK No.	ONE BEDROOM	TWO BEDROOM	THREE BEDROOM	TOTAL
1	12	12	0	24
2	12 (1HC)	9 (1HC)	3	24
3	12 (1HC)	9	3 (1HC)	24
4	12	12	0	24
5	12 (1HC)	12 (1HC)	0	24
6	12 (1HC)	9 (1HC)	3	24
7	12	12	0	24
<b>TOTALS</b>	<b>84 (4HC)</b>	<b>75 (3HC)</b>	<b>9 (1HC)</b>	<b>168 (8HC)</b>

**STREET ADDRESS**

Bldg. No.	STREET ADDRESS
1	4901 Columbia Road
2	4905 "
3	4911 "
4	4915 "
5	4921 "
6	4925 "
7	4931 "
	4935 "
	4941 "
	4945 "
	4951 "
	4955 "
	4961 "
	4965 Columbia Road

**SITE ANALYSIS**

1. Zoning: New Town Apartments (FDP Phase 101-A)
2. Total Area: 9.79 Acres
3. No. of Residential Units Permitted: 168
4. No. of Residential Units Proposed: 168
5. No. of Parking Spaces Required 252; Provided 255
6. Building Coverage: 16.36%
7. Handicap Units: Required 7; Provided: 8

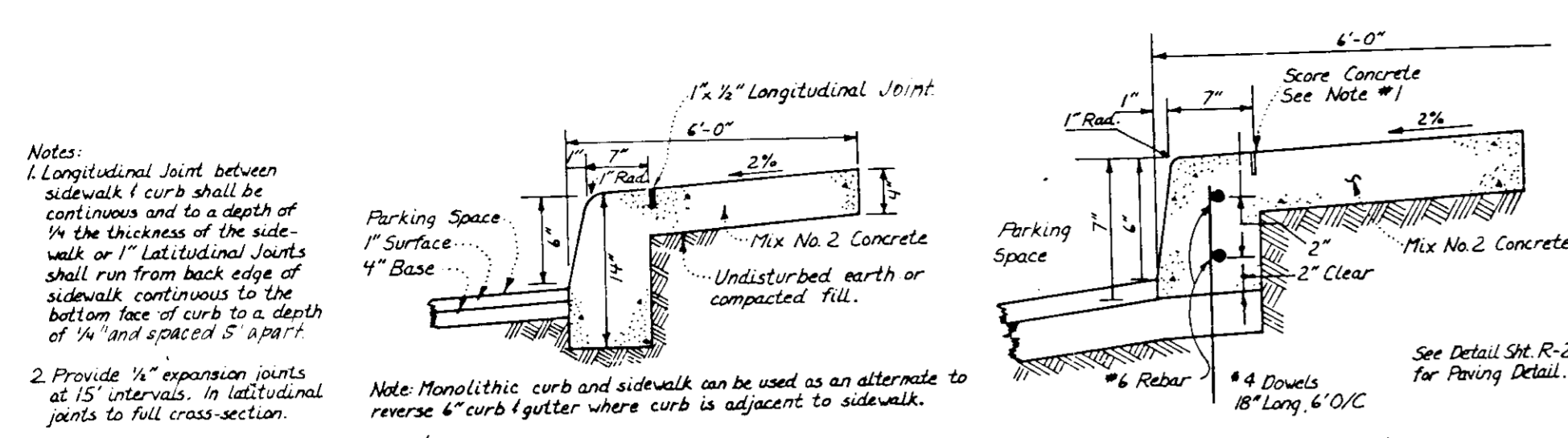
REFERENCE FILES: FDP-101-A; F-86-26; S-86-82; VP-86-89

OWNER: The Howard Research & Development Corporation, 10275 Little Patuxent Pkwy, Columbia, Md. 21044	SUBDIVISION NAME: COLUMBIA Village of Dorsey's Search	SECT./AREA: 3/1	LOT/PARCEL A: 1
PLAT # 6535	BLOCK # 9	ZONE N/ETS	TAX/ZONE MAP/ELEC. DIST CENSUS TR 30 5TH G052 02
WATER CODE	E 01	SEWER CODE	5700000

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

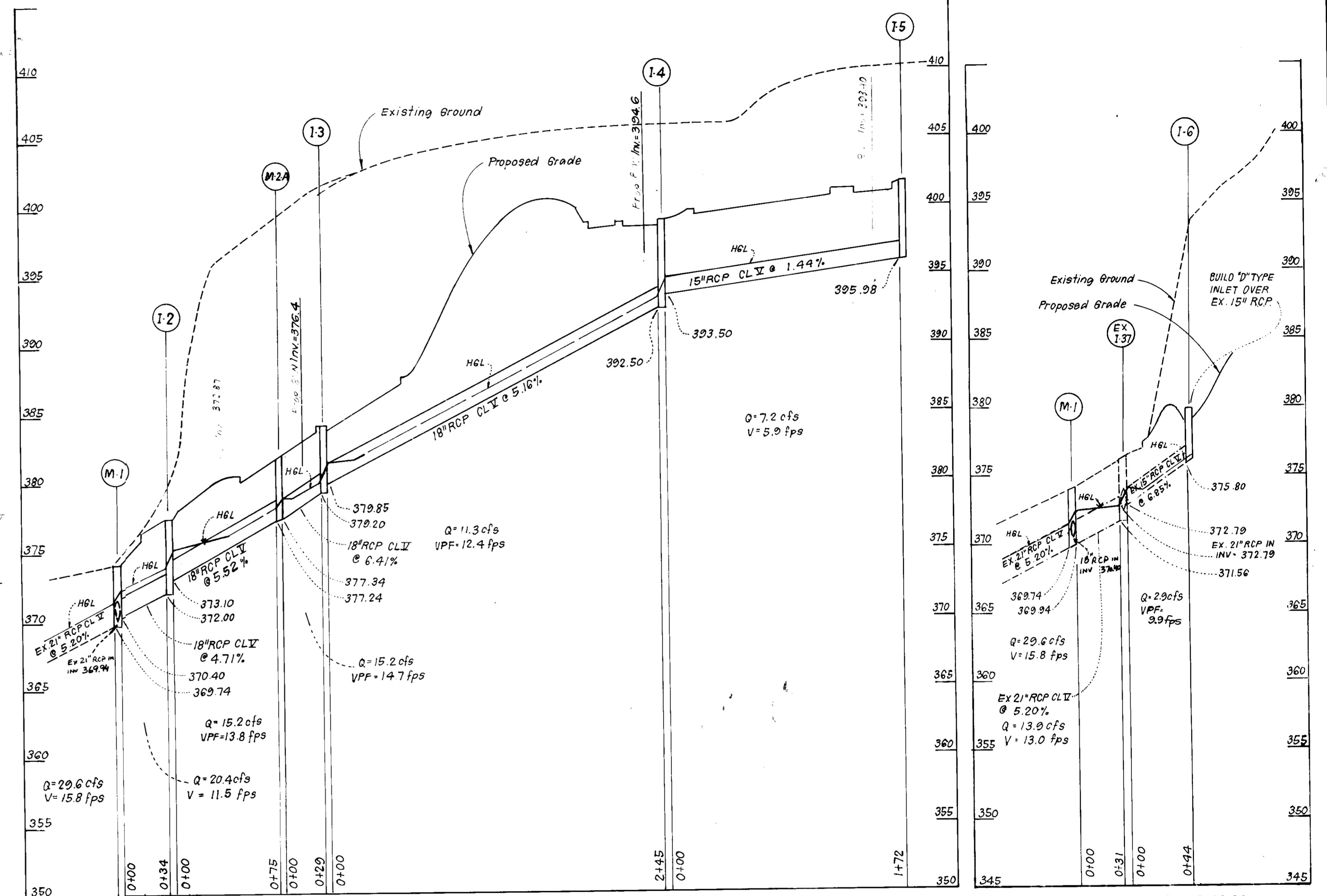
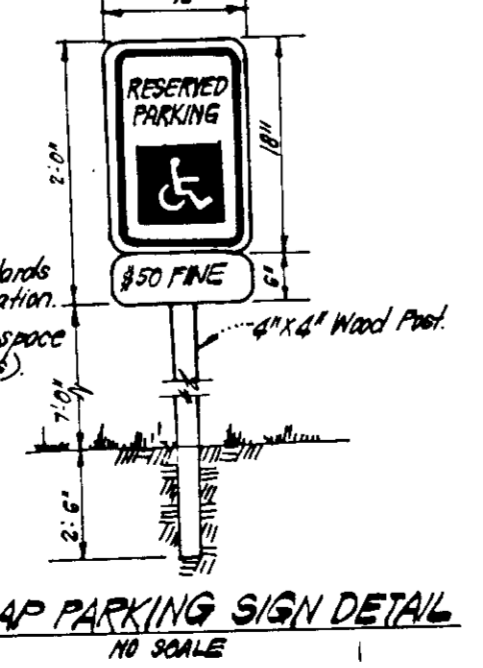
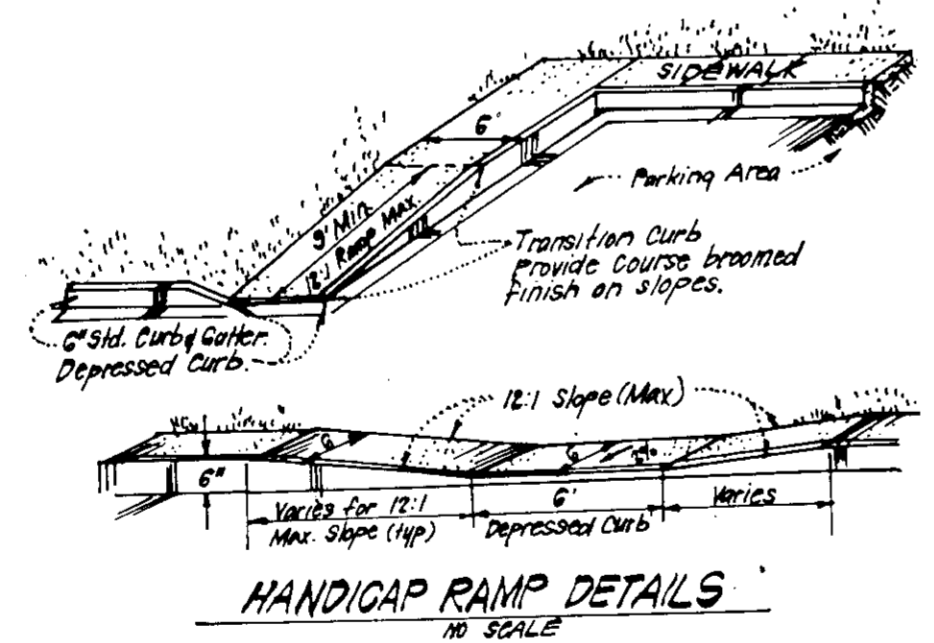
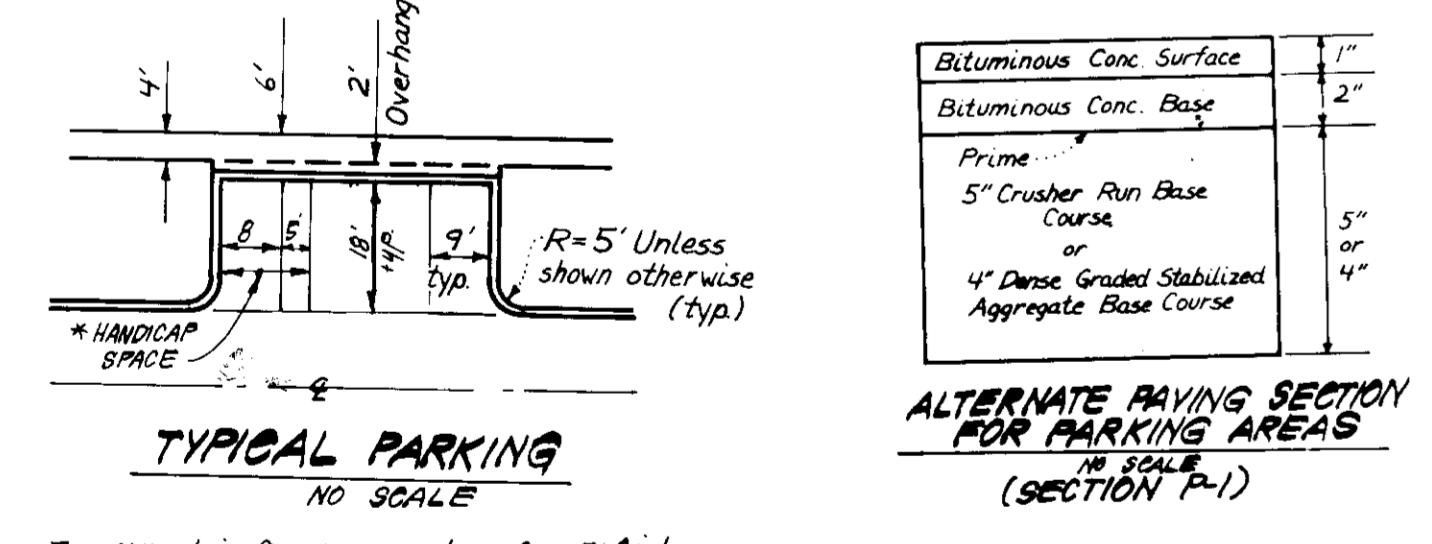
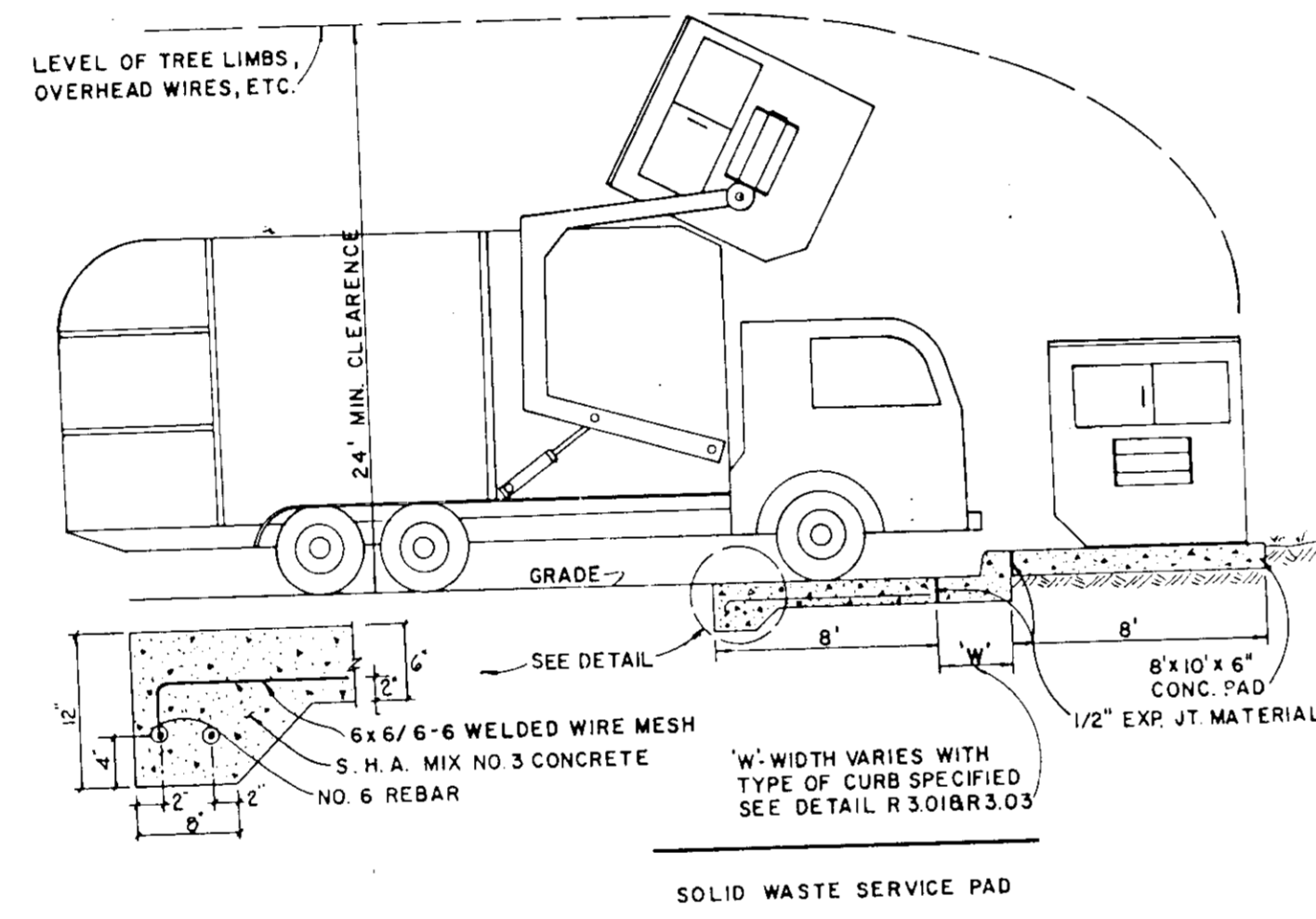
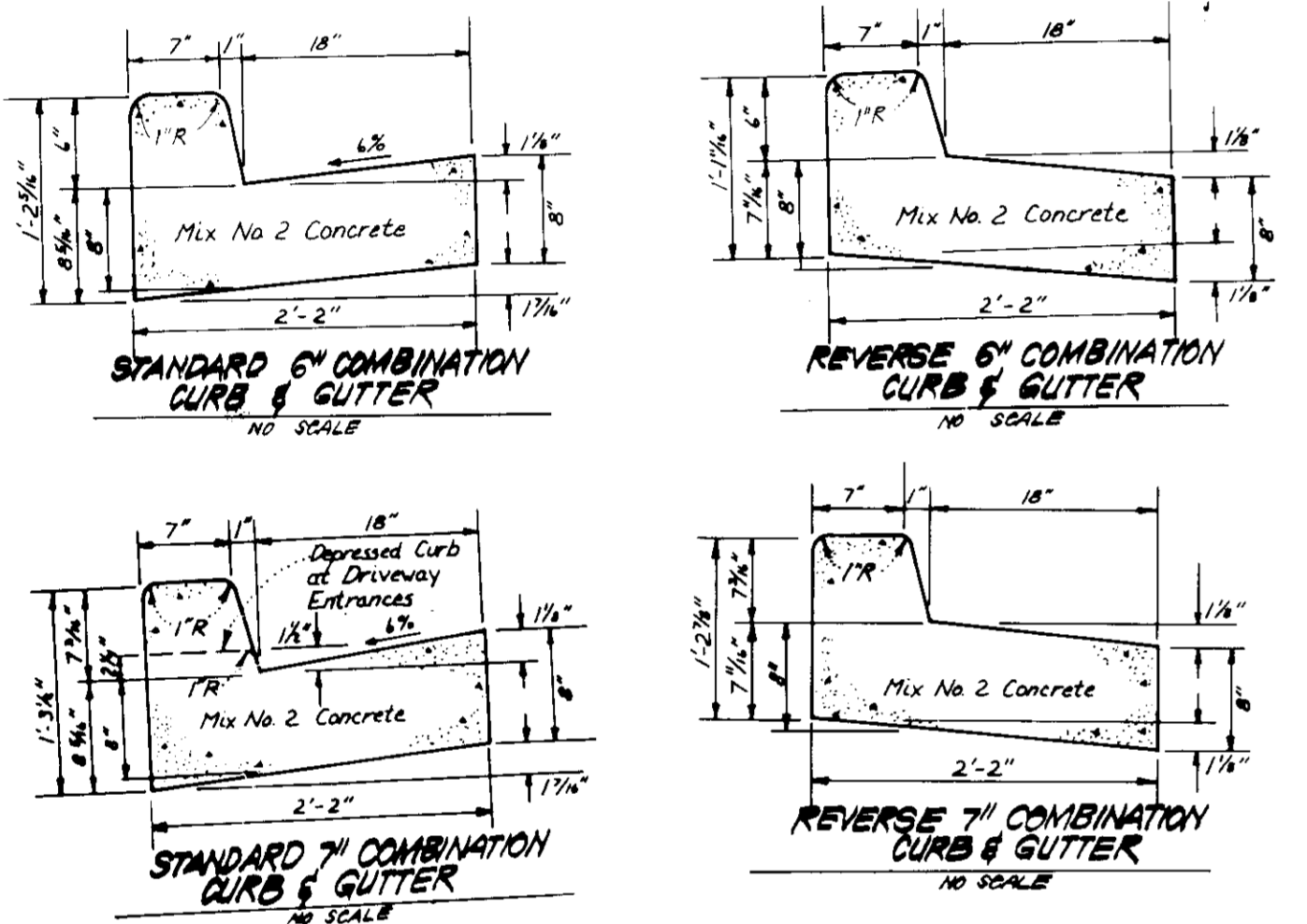
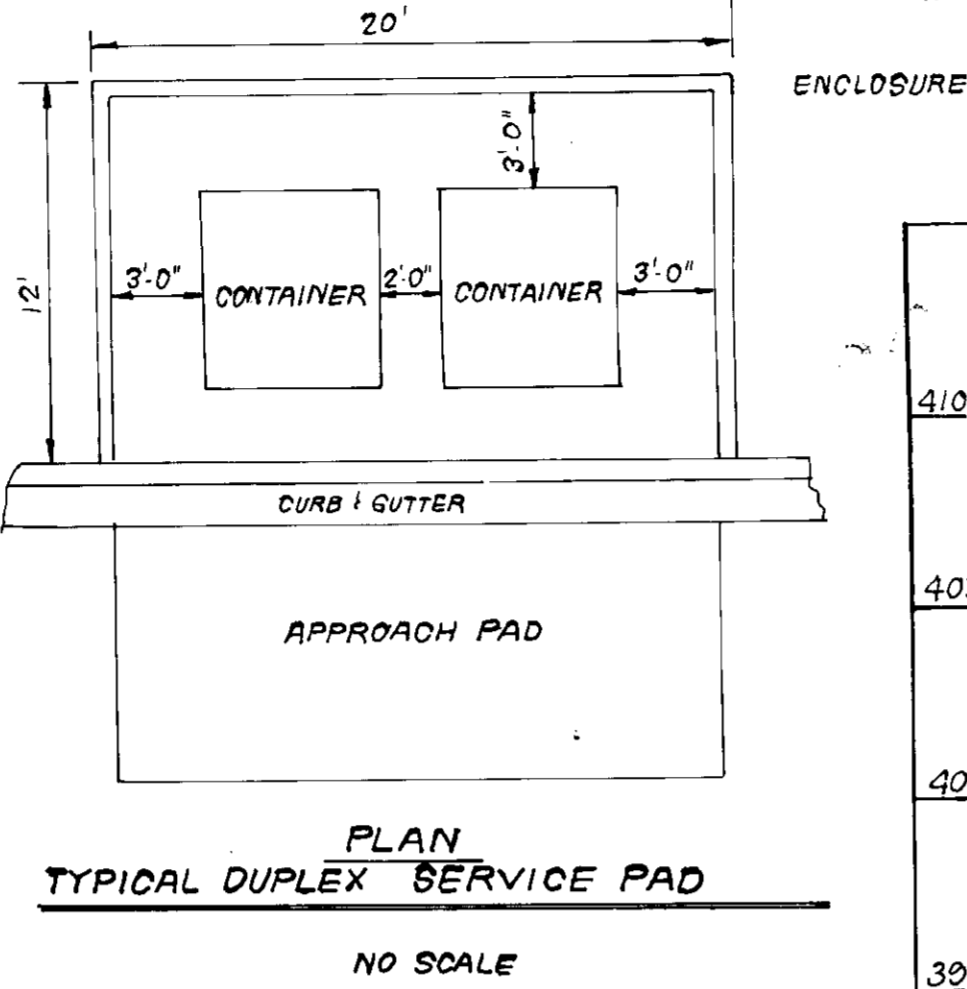
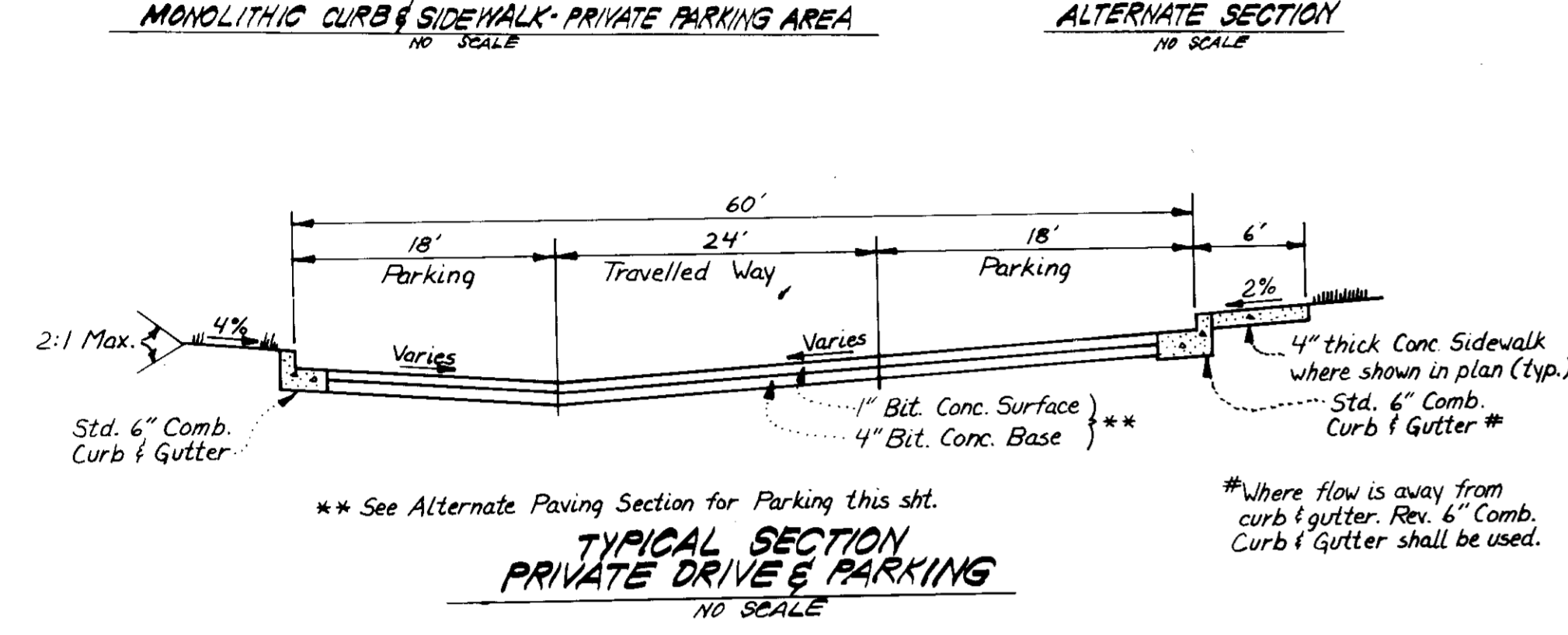
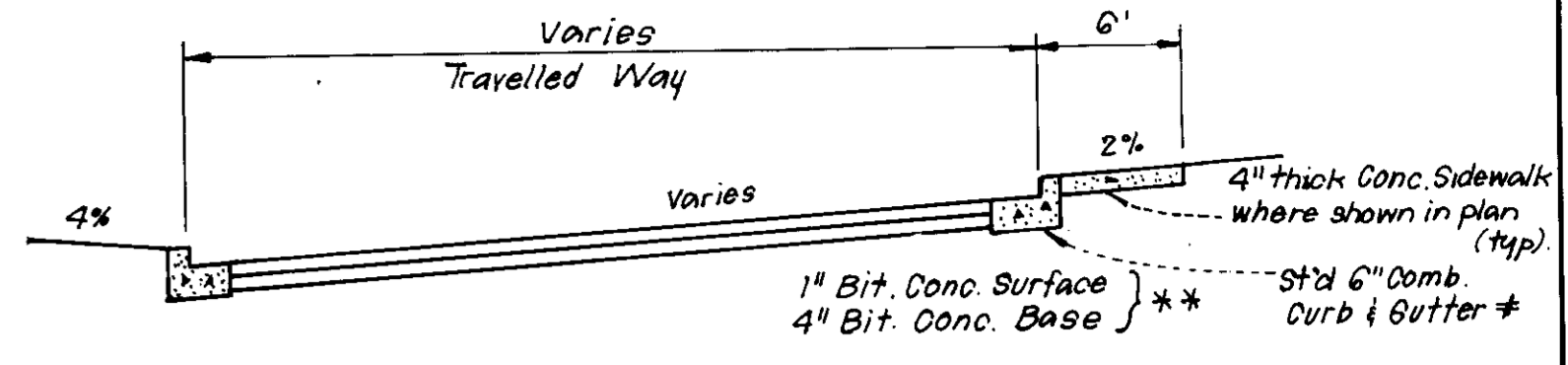
DESIGNED DBS	SITE DEVELOPMENT PLAN PARCEL A-1	SCALE 1" = 30'
DRAWN JTR	<b>COLUMBIA</b>	DRAWING 10F5
CHECKED DBS	VILLAGE OF DORSEY'S SEARCH SECTION 3 AREA 1 5TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND	JOB NO. 85-099
DATE 6-17-86	FOR: HENDERSON WEBB INC. 1025 Cranbrook Road, Cochesville, Md. 21030	FILE NO. 85-099 X

SDP-86-275c



PIPE SCHEDULE		
SIZE	TYPE	LENGTH
15"	RCP CL II	172 LF
18"	RCP CL V	384 LF

STRUCTURE SCHEDULE Δ						
No.	TYPE	INV. IN	INV. OUT	TOP ELEVATION		REMARKS
				UPPER	LOWER	
M-1	Shallow Brick Manhole	373.10	372.00	374.11	377.17	Ho. Co. Std. Q-5.05
I-2	A-10 Inlet w/Deflector	373.10	372.00	377.68	377.17	" " " SD 4.02 W-2'-6"
M-2A	Shallow Brick Manhole	377.34	377.24	382.00	383.95	" " " Q-5.05
I-3	A-10 Inlet w/Deflector	379.85	379.20	384.60	383.95	" " " SD 4.02 W-2'-6"
I-4	A-10 Inlet	393.50	392.50	399.38	398.47	" " " SD 4.02 W-2'-6"
I-5	A-10 Inlet	395.98	401.20	401.09	401.09	" " " SD 4.02 W-2'-6"
I-6	D-Inlet	375.80	379.83	379.83	379.83	" " " SD 4.11 W-2'-6"



OWNER: The Howard Research & Development Corporation 10275 Little Patuxent Pkwy. Columbia, Md. 21044	SUBDIVISION NAME: COLUMBIA Village of Dorsey's Search 3/11	SECT AREA: 3/11	LOT/PARCEL #: PARCEL A-1
PLAT # 8-35	BLK # 0410	ZONE APTS	TAX CODE 30
WATER CODE		SEWER CODE	

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGESYSTEMS.  
HOWARD COUNTY HEALTH DEPARTMENT

COUNTY HEALTH OFFICER \_\_\_\_\_ DATE \_\_\_\_\_

APPROVED: HOWARD COUNTY OFFICE OF PLANNING & ZONING

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

DIRECTOR \_\_\_\_\_ DATE \_\_\_\_\_

CHIEF BUREAU OF ENGINEERING \_\_\_\_\_ DATE \_\_\_\_\_

APPROVED: 8-6-86

NOTES:  
1. Sign shall meet design standards of Public Works Administration.  
2. One required per parking space placed as shown (8 spaces).

8-18-86

1	Revised Profiles	11-3-86
Nº	REVISION	DATE

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

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

DESIGNED: MCB  
DRAWN: JTR  
CHECKED: MCB  
DATE: 6-17-86

**SITE DEVELOPMENT PLAN**  
STORM DRAINAGE PROFILES AND PAVING DETAILS  
PARCEL A-1  
**COLUMBIA**  
VILLAGE OF DORSEY'S SEARCH  
SECTION 3 AREA 1  
5TH ELECTION DISTRICT  
HOWARD COUNTY, MARYLAND

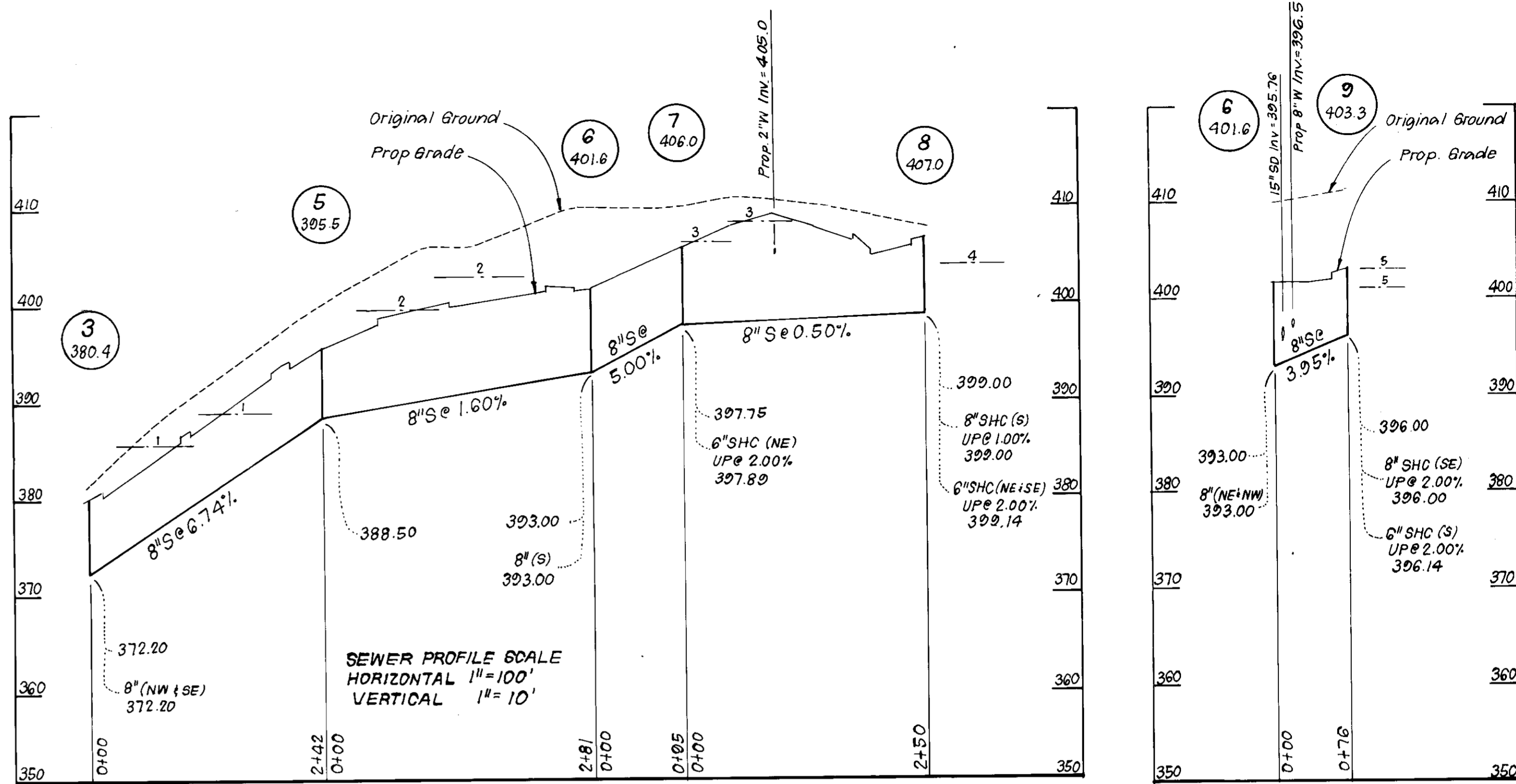
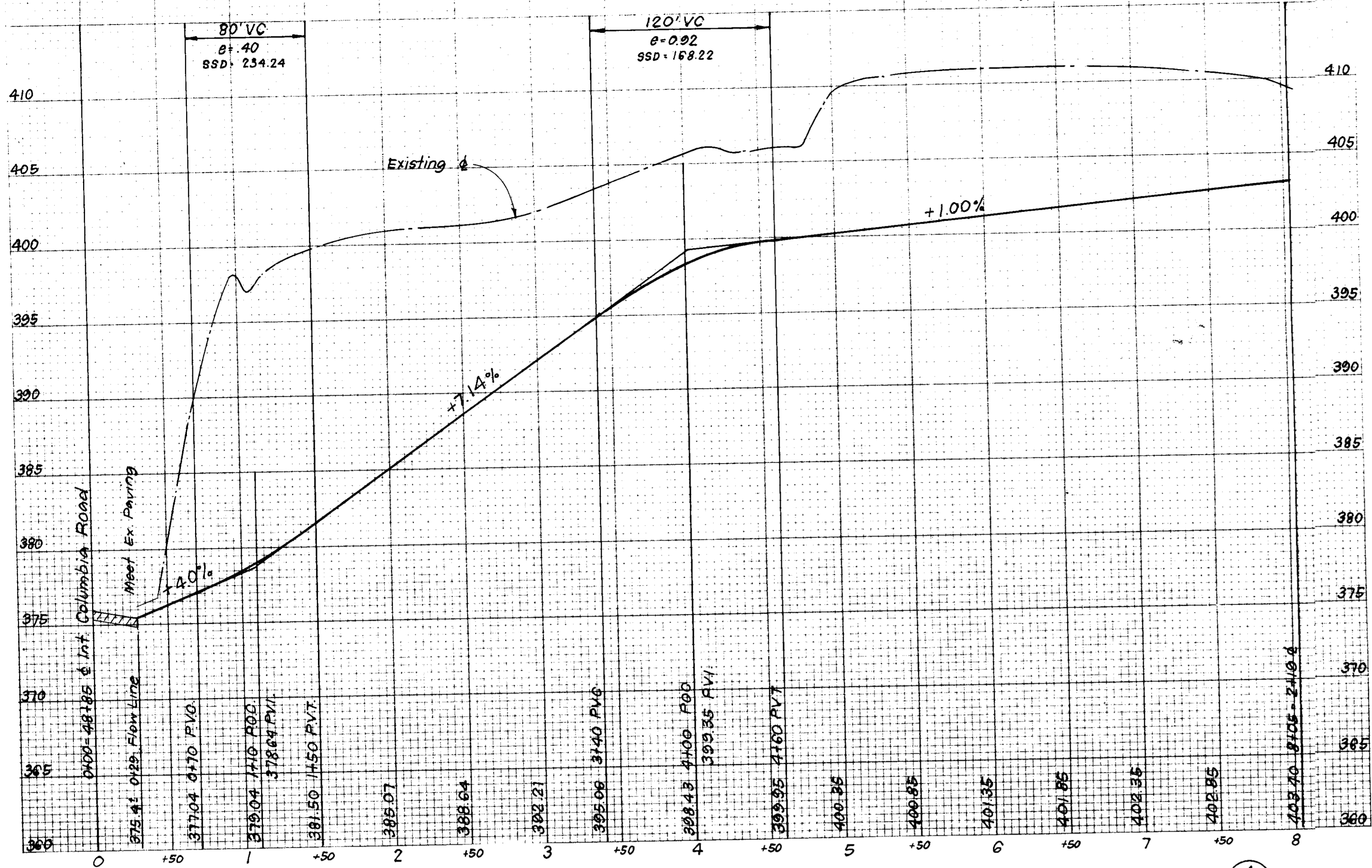
FOR: HENDERSON WEBB INC.  
1025 Cranbrook Road  
Cockeysville, Md. 21030

SCALE: 1"=30'  
DRAWING: 2 OF 5  
JOB NO.: 85-099  
FILE NO.: 85-099 X

SDF-86-275c

PRIVATE DRIVE

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

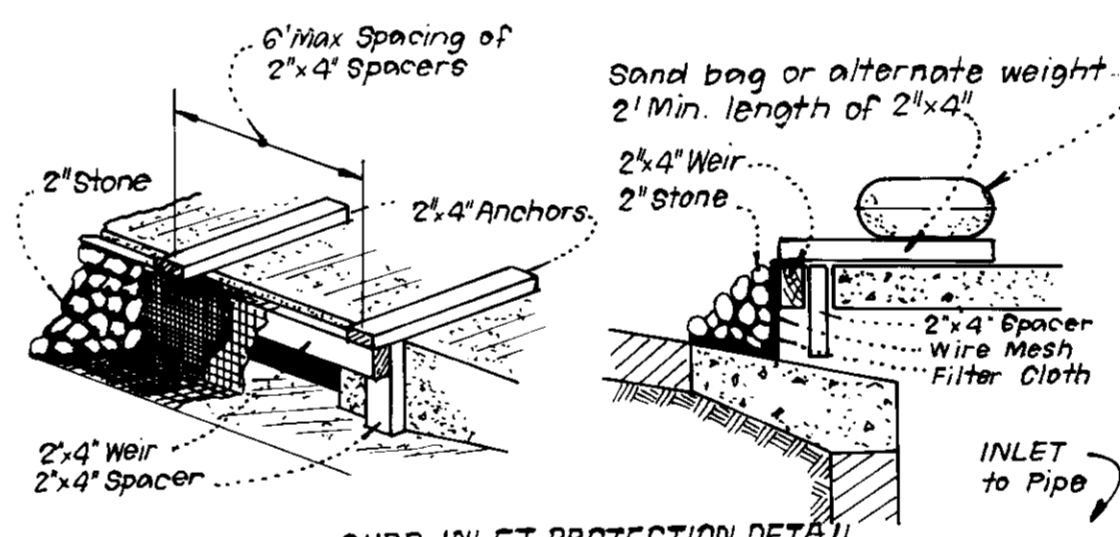
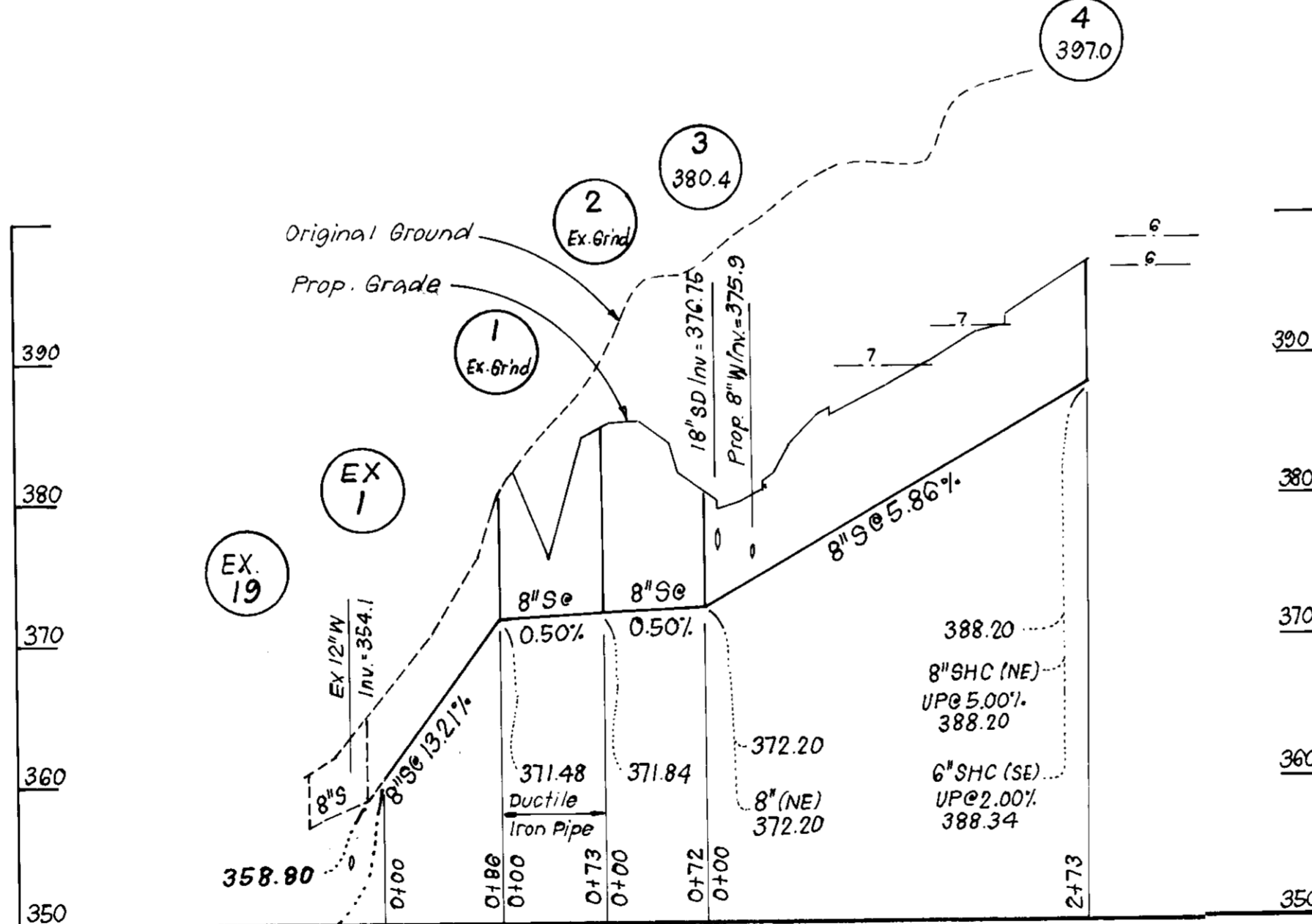


WATER AND SEWER NOTES:

- All sewer mains shall be PVC, C.S.P.X., V.C.P.X. or A.C.P. 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 Soil Details and Specifications where necessary.
- All water mains to have a minimum of 3.5 ft. of cover.
- Sewer House Connections shall be built to within 5 ft. of buildings at a slope of 2.00%, unless otherwise shown on plan or profile.

CONSTRUCTION SEQUENCE

	NO. OF DAYS
1. Obtain Grading Permit and maintain Existing Sediment & Erosion Control Devices	14
2. Rough Grade Site	30
3. Construct Storm Drainage and Provide Inlet Protection Devices	30
4. Construct Utilities	120
5. Fine Grade and construct paving leaving out 10' section of curb & gutter as shown on plan above I-2	180
6. Construct Buildings and Sidewalks	180
7. Final Grade and Stabilize in accordance with standards and specifications	30
8. Upon approval of the Sediment Control Inspector remove Sediment & Erosion Controls and Stabilize	14
9. Install remaining Curb & Gutter	1



II PROCEDURE: CURB INLET PROTECTION

- Attach a continuous piece of wire mesh (30" min. width by throat length plus 4') to the 2"x4" weir (measuring throat length plus 2') as shown on site 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 2"x4" weir.
- Securely nail the 2"x4" weir to 8" 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 2"x4" to the top of the weir at spacer locations. These 2"x4" 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 filter cloth to the concrete gutter 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

REFERENCE FILES: FDP-101-A, F 86-20, S 86-62, V P-86-89

OWNER: The Howard Research & Development Corporation 10275 Little Patuxent Pkwy Columbia, Md. 21044	SUBDIVISION NAME: COLUMBIA Village of Dorsey's Search	SECT./AREA: 3/1	LOT/PARCEL #: PARCEL A-1
PLAT #: 6535	BLOCK #: 2-410	ZONE: A/B/C/D	TAX ZONE: 30
WATER CODE		SEWER CODE	

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

COUNTY HEALTH OFFICER: \_\_\_\_\_ DATE: \_\_\_\_\_

APPROVED: HOWARD COUNTY OFFICE OF PLANNING & ZONING

PLANNING DIRECTOR: *John W. Williams* DATE: 10-3-86

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: \_\_\_\_\_ DATE: 10-16-86

CHIEF BUREAU OF ENGINEERING: \_\_\_\_\_ DATE: 9-29-86

APPROVED PLANNING BOARD OF HOWARD COUNTY

DATE: 8-6-86

*M. J. J. J.*

CONN TO & MAINTAIN ALIGN. & GRADE OF EX. 8" S 360.12 UTILIZE SAME TYPE OF PIPE

Howard County

*James W. Nelson* 9-25-86

*John R. Clark* 7-24-86

John R. Clark

*R. M. Clark* 6-18-86

NO.	REVISION	DATE
1	Revised Profiles & added Water and Sewer Notes	11-3-86

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

11315 LOCKWOOD DRIVE · SILVER SPRING, MARYLAND 20904 · (301) 583-3400

DESIGNED: MCB  
 DRAWN: JTR  
 CHECKED: MCB  
 DATE: 6-17-86

SITE DEVELOPMENT PLAN  
 STREET GRADE, SEWER PROFILES & SED. CONTROL NOTES  
 PARCEL A-1  
**COLUMBIA**  
 VILLAGE OF DORSEY'S SEARCH  
 SECTION 3 AREA 1  
 5TH ELECTION DISTRICT  
 HOWARD COUNTY, MARYLAND

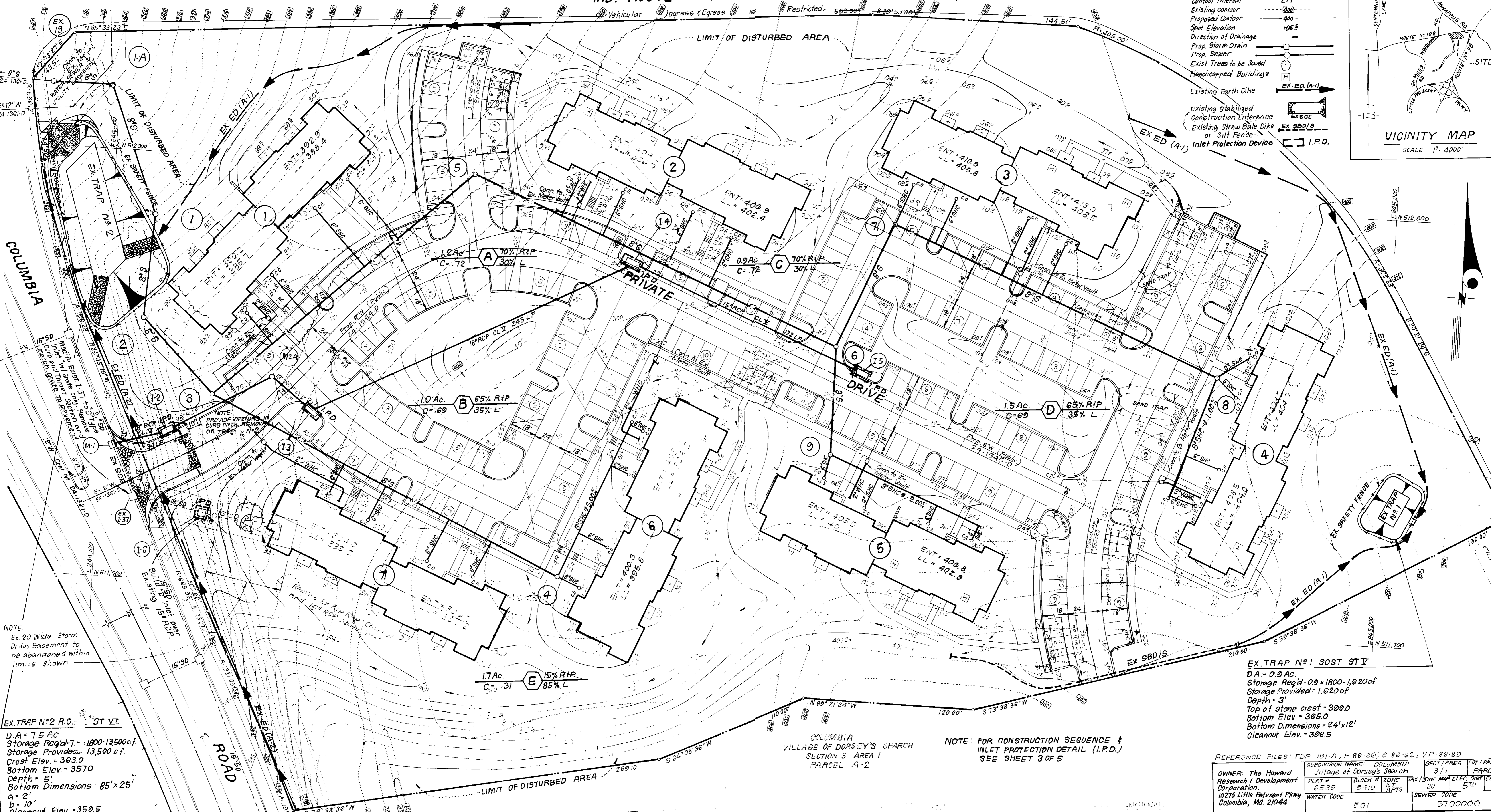
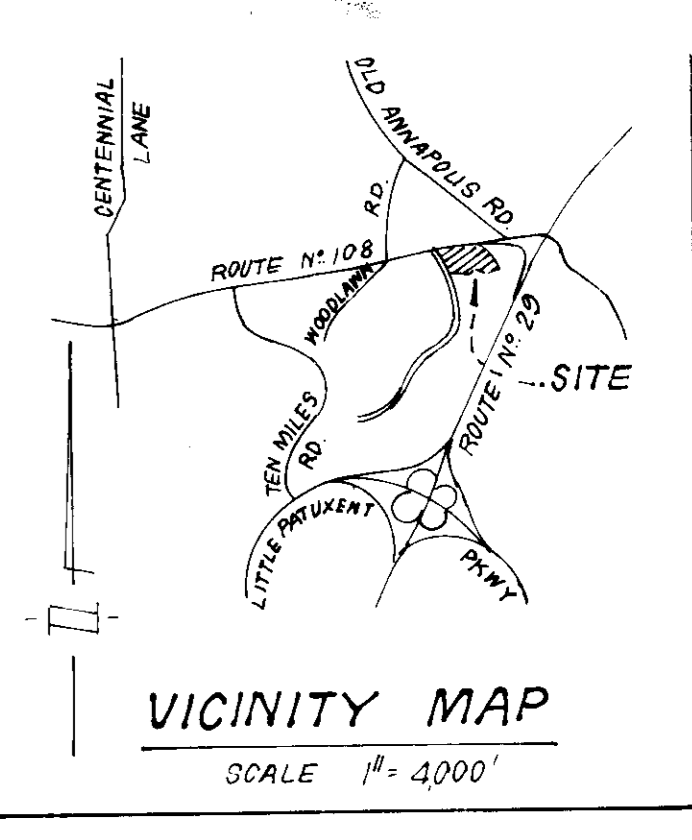
FOR: HENDERSON WEBB, INC.  
 1025 Cranbrook Road  
 Cockeysville, Md. 21030

SCALE: AS SHOWN  
 DRAWING: 3 OF 5  
 JOB NO.: 85-099  
 FILE NO.: 85-099 X

SDP-86-275

**LEGEND:**

- Contour Interval 2 FT
- Existing contour 1000
- Proposed Contour 400
- Spot Elevation 106.5
- Direction of Drainage
- Prop. Storm Drain
- Prop. Sewer
- Exist. Trees to be Saved
- Handicapped Buildings
- Existing Earth Dike
- Existing Stabilized Construction Entrance
- Existing Straw Bale Dike or Silt Fence
- Inlet Protection Device
- I.P.D.



**NOTE:**  
Ex 20' Wide Storm Drain Easement to be abandoned within limits shown

**EX. TRAP N2 R.O. ST VI**  
D.A. = 7.5 AC  
Storage Req'd = 1800 x 13500 c.f.  
Storage Provided = 13,500 c.f.  
Crest Elev. = 3630  
Bottom Elev. = 3570  
Depth = 5'  
Bottom Dimensions = 85' x 25'  
a = 2'  
b = 10'  
Cleanout Elev. = 3595

**EX. TRAP N101 SOST ST V**  
D.A. = 0.9 AC  
Storage Req'd = 0.9 x 1800 = 1,620 c.f.  
Storage Provided = 1,620 c.f.  
Depth = 3'  
Top of stone crest = 399.0  
Bottom Elev. = 395.0  
Bottom Dimensions = 24' x 12'  
Cleanout Elev. = 396.5

**NOTE:** FOR CONSTRUCTION SEQUENCE & INLET PROTECTION DETAIL (I.P.D.) SEE SHEET 3 OF 5

REFERENCE FILES: FDP-101-A, F 86-20, S 86-62, V P-86-89

OWNER: The Howard Research & Development Corporation 10275 Little Patuxent Pkwy. Columbia, Md. 21044	SUBDIVISION NAME: COLUMBIA Village of Dorsey's Search	SECT./AREA: 3/1	LOT/PARCEL #: PARCEL A-1
PLAT # 6535	BLOCK # 0410	ZONE RTS	TAX/ZONE MAP ELEC. DIST. CENSUS # 574
WATER CODE	SEWER CODE	E01 5700000	

**APPROVED:** FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT  
DATE: 6-2-86

**APPROVED:** HOWARD COUNTY OFFICE OF PLANNING & ZONING  
DATE: 10-3-86

**APPROVED:** FOR PUBLIC WATER AND PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS, HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS  
DATE: 10-16-86

**APPROVED:** PLANNING & ZONING DEPARTMENT OF HOWARD COUNTY  
DATE: 8-6-86

**NOTE:** Existing Sediment Control to be utilized, see previously approved plans GP 86-65

Howard County  
Name: James W. Stehr  
Date: 9-2-86

John R. Clark  
Date: 6-18-86

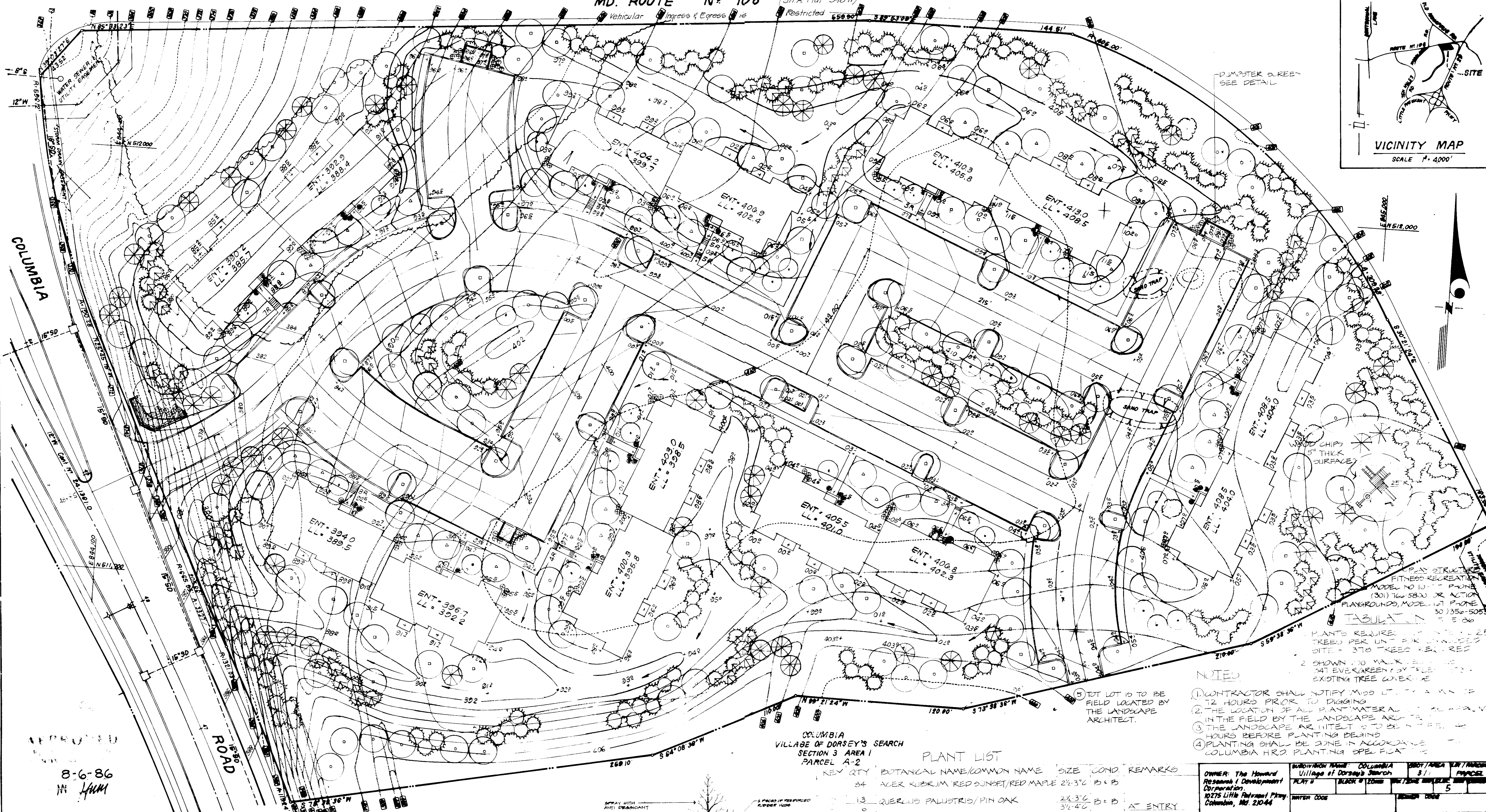
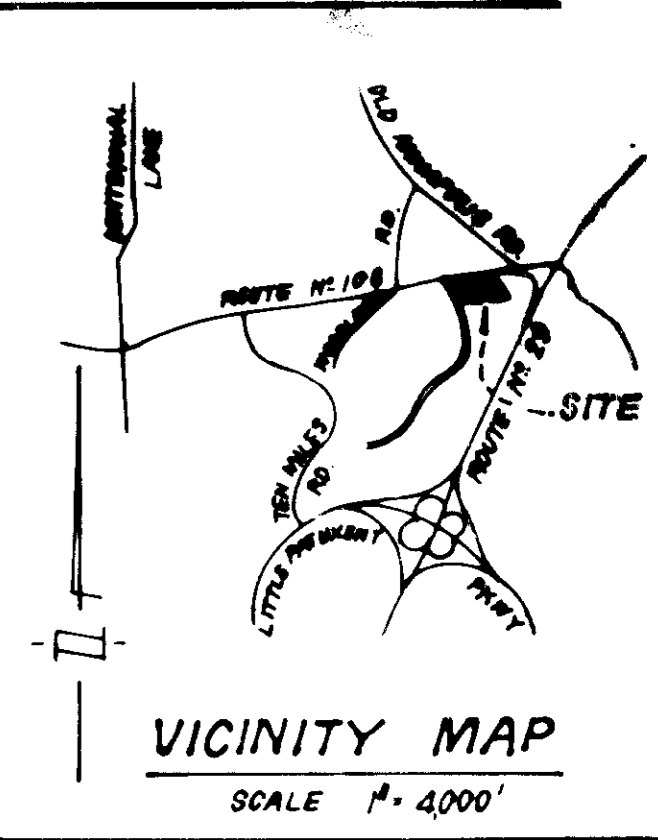
Approved: Stephen R. Fisher  
Date: 9/2/86

8 Nelson Clark  
Date: 6-18-86

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

DESIGNED: MCB	SEDIMENT EROSION CONTROL PLAN AND DRAINAGE AREA MAP PARCEL A-1	SCALE: 1" = 30'
DRAWN: JTR		DRAWING: 4 OF 5
CHECKED: MCB	COLUMBIA VILLAGE OF DORSEY'S SEARCH SECTION 3 AREA 1 5TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND	JOB NO.: 85-099
DATE: 6-17-86		FOR: HENDERSON WEBB INC. 1025 Cranbrook Road Cockeysville, Md. 21030

SDP-86-275c



DUMPSTER SCREEN  
SEE DETAIL

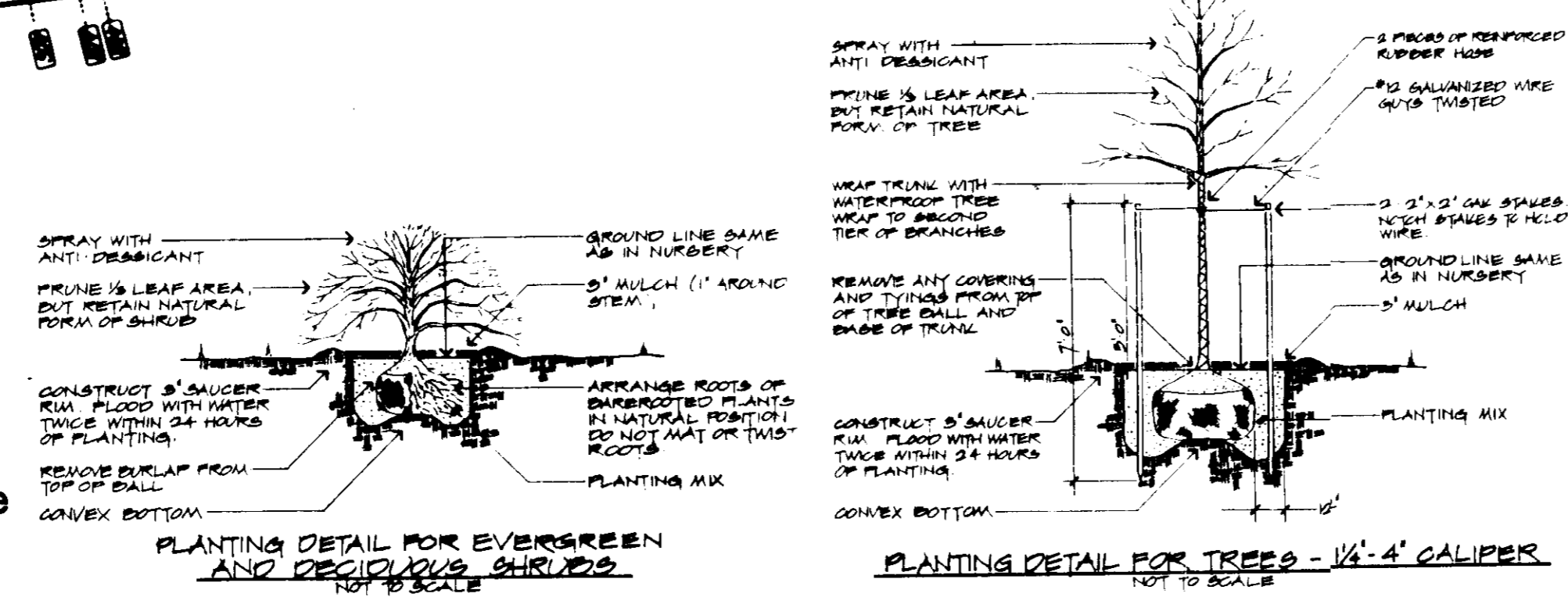
NOTES

- CONTRACTOR SHALL NOTIFY MISS UT... 12 HOURS PRIOR TO DIGGING
- THE LOCATION OF ALL PLANT MATERIAL... IN THE FIELD BY THE LANDSCAPE ARCHITECT
- THE LANDSCAPE ARCHITECT IS TO BE... HOURS BEFORE PLANTING BEGINS
- PLANTING SHALL BE DONE IN ACCORDANCE... COLUMBIA H.R.D. PLANTING SPECIFICATIONS

COLUMBIA  
VILLAGE OF DORSEY'S SEARCH  
SECTION 3 AREA 1  
PARCEL A-2

PLANT LIST

KEY	QTY	BOTANICAL NAME/COMMON NAME	SIZE	COND.	REMARKS
34		ACER RUBRUM RED SUNSET/RED MAPLE	2 1/2' 3/4"	B & B	
13		QUERUS PALUSTRIS/PIN OAK	2 1/2' 3/4"	B & B	AT ENTRY
37		TILIA CORDATA GREENSPIRE/EUROPEAN LINDEN	2 1/2' 3/4"	B & B	
51		AMELANCHIER HYBRIDA CUMULUS/JUMULUS SHADDBLOW	2-2 1/2'	B & B	
31		MALUS ZUMI CALCALARPA/ZUMI CRAB	2 1/2' 3/4"	B & B	
22		PINUS STROBUS/EASTERN WHITE PINE	6-8 HT	B & B	SPACE 10' 00"
56		PIEA ABIES/NORWAY SPRUCE	6-8 HT	B & B	SPACE 10' 00"
104		EUONYMUS ALATUS COMPACTA/DWARF WINGED EUONYMUS	2 1/2' 3/4"	B & B	SPACE 3' 00"
40		JUNIPERUS SQUMATA EXPANSA PARSON'S JUNIPER	2-2 1/2'	CAN	SPACE 3' 00"
56		TAXUS CUSPIDATA DENSIFORMIS/DENSE YEW	2-2 1/2'	B & B	SPACE 3' 00"



8-6-86  
HMM

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

HEALTH OFFICER \_\_\_\_\_ DATE \_\_\_\_\_

APPROVED: HOWARD COUNTY OFFICE OF PLANNING & ZONING

PLANNING DIRECTOR \_\_\_\_\_ DATE 10-3-86

THIRD 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 \_\_\_\_\_ DATE \_\_\_\_\_

CHIEF BUREAU OF ENGINEERING

HUMAN & ROHDE, INC.  
Landscape Architects  
110 E. Pennsylvania Avenue  
Towson, Maryland 21204  
(301) 825-3885

OWNER: The Howard Research & Development Corporation  
1025 Little Patuxent Pkwy. Columbia, MD 21044

SUBDIVISION NAME: COLUMBIA Village of Dorsey's Search  
PARCEL A-1

DESIGNED: JTR  
DRAWN: JTR  
CHECKED: \_\_\_\_\_  
DATE: 6-17-86

CLARK · FINEFROCK & SACKETT  
ENGINEERS · PLANNERS · SURVEYORS  
11515 LOCKWOOD DRIVE · SILVER SPRING, MARYLAND 20904

SITE DEVELOPMENT PLAN  
LANDSCAPE PLAN  
PARCEL A-1  
COLUMBIA  
VILLAGE OF DORSEY'S SEARCH  
SECTION 3  
AREA 1  
8TH ELECTION DISTRICT  
HOWARD COUNTY, MARYLAND

SCALE: 1/4" = 1'-0"

DATE: 8-6-86

FOR: HENDERSON NEED INC.  
1025 Cranbrook Road  
Cockeysville, MD 21030  
SDP-86-275c