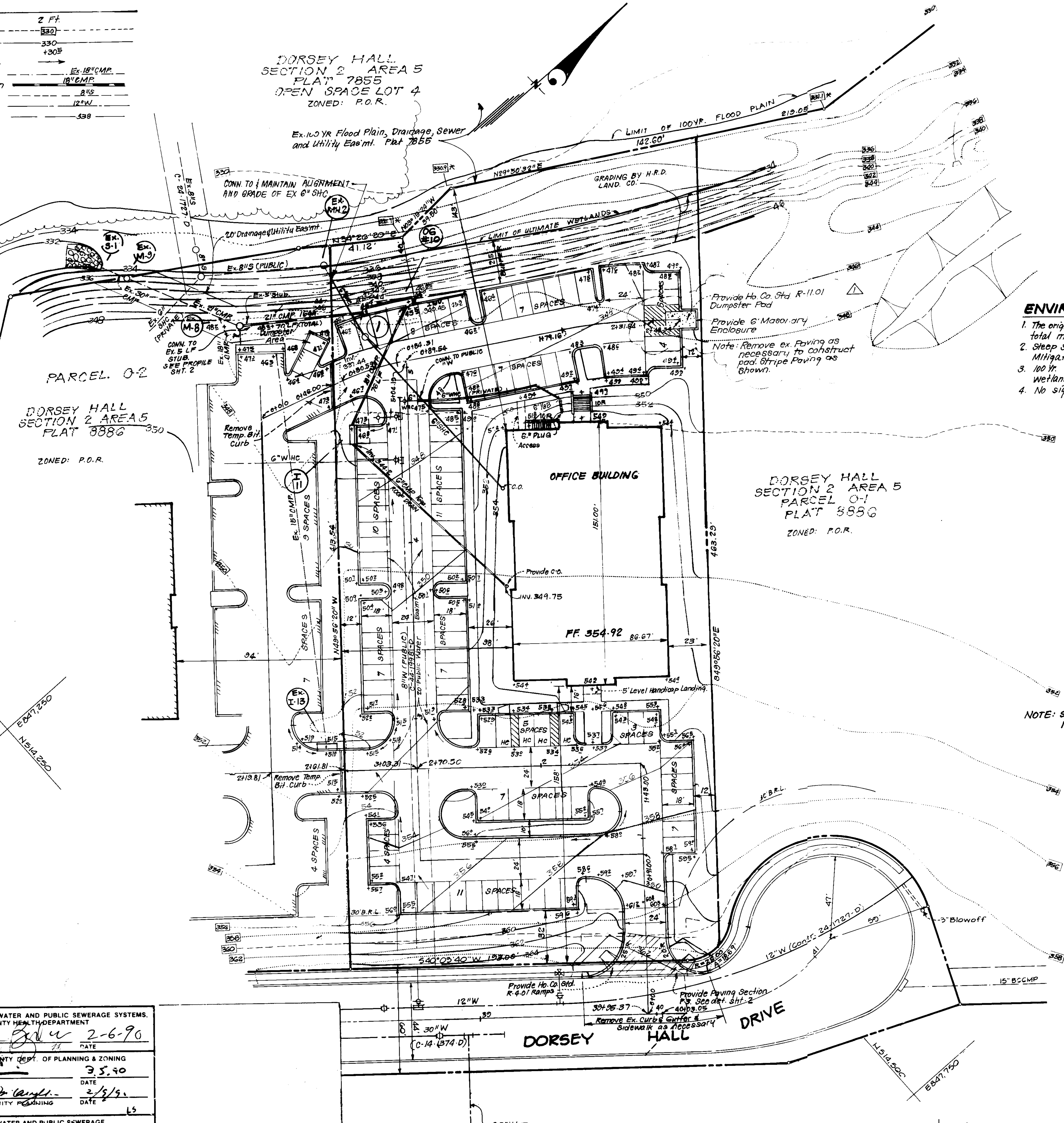
LEGEND:

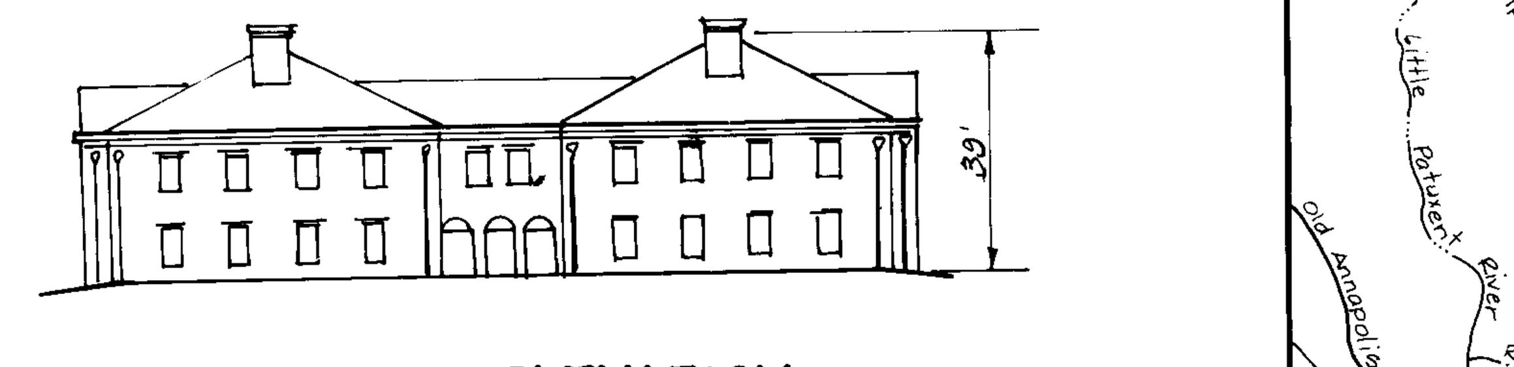
Contour Interval	2 Ft.	
Existing Contour		330
Proposed Contour		330
Spot Elevation		+30⁵
Direction of Drainage		→
Existing Storm Drain		Ex.18"CMP
Proposed Storm Drain		18"CMP
Existing Sewer		8"S
Existing Water		12"W
Grading By Others		338



ENVIRONMENTAL CONDITIONS:

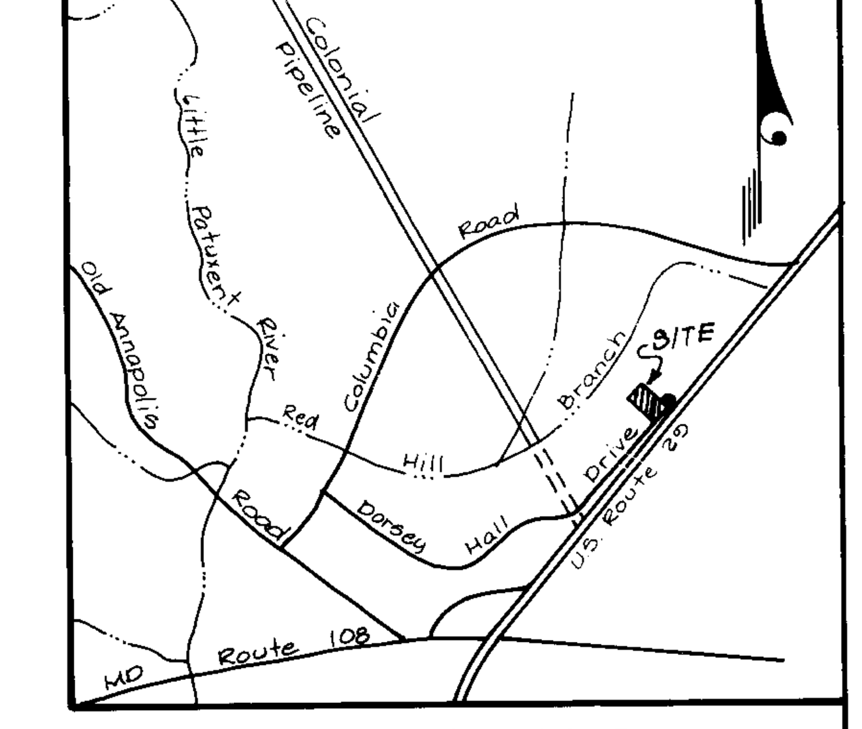
1. The original site conditions have been altered by total mass grading per F-88-37; completed 9-88.
2. Steep slopes at rear of site are as per wetland Mitigation Measures by H.R.D. Land Co.
3. 100 Yr. Flood Plain limits of ultimate created wetlands as shown.
4. No signif. ant vegetation exists on the site.

NOTE: STORM WATER MANAGEMENT IS PROVIDED IN A CENTRAL FACILITY. SEE APPROVED PLANS F-85-16.



BUILDING ELEVATION

SCALE: 1"=30'



VICINITY MAP

Scale: 1"=2,000'

SITE ANALYSIS:

1. Area of Parcel: 2.147 Ac.
2. Zoning: P.O.R. (Planned Office Research)
3. Proposed use of structure: Office Building.
4. Floor Space: 1ST floor = 12422 ♯ gross
   2ND floor = 12422 ♯ gross
5. Number of parking spaces required: 7 per 10 Employees x 100 Employees = 70
   proposed: 98 △1
6. Open Space (green area) to remain ~~on site~~ = 0.887 Ac. or 41.0 % of Net.
7. Building coverage of site = 0.285 Ac. or 12,422 SF. or 13.0% of Gross Ac.
8. Handicap parking spaces required = 4
   provided = 4
9. File reference numbers: S-78-20, P-84-27, P-86-26, F-85-16, F-85-56, VP-87-97, F-88-37, F-89-247 & P.B. 184.
10. Proposed Parking Lot Area: 42,463 ♯.
11. Landscape Islands: 2825 ♯ or 7% of Parking Lot Area.

GENERAL NOTES:

1. All materials and construction to be in accordance with Howard County Road Construction Codes & Specifications.
2. Coordinates shown are extensions made from Maryland State Plane Coordinate System. Bearings refer to True North and are based on Maryland Bureau of Control Surveys Point "Columbia Reset 1966" N 512095.04 E. 846139.78.
3. All driveways are privately owned and maintained.
4. Any damage to county owned rights of way to be corrected at the developer's expense.
5. Installation of traffic control devices shall be in accordance with the latest edition of the "Manual of Uniform Traffic Control.
6. Topography was compiled from actual field survey by C.F.&S Inc. on 7-17-89 and is based on Md Coordinate Grid System.
7. 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.
8. The contractor or developer shall contact the Construction Inspection Survey Division 24 hours in advance of work at 992-2417 or 792-7272.
9. The developer agrees to work with the dept. of Licenses and Inspections to resolve any problem with roof water discharge.
10. Handicap parking details shall be in accordance with the "Maryland Building Code for the Handicapped," Sect. 5.01-7.05 and detail sht. 2.
11. Deed reference: L. 493 F. 602 L. 506 F. 302
12. Notify all utility companies 24 hours in advance of construction.
13. All construction methods and materials for the on-site private W.&S system shall follow the current edition of the Howard County Plumbing Code, supplemented by the Howard County Std. details and specs. as amended in 1989 where necessary.
14. Refuse removal is private.
15. The area shown is located on Tax Map #30.
16. Created wetlands and Grading by H.R.D. as per F-88-37 & a Mitigation Plan provided by H.R.D.

For AS-BUILT by Clark, Finefrock & Sackett, Inc. 5/11/92

ADDRESS CHART		
Lot No	5	STREET ADDRESS
O-3	5310	Dorsey Hall Drive

12-6-89
LS

OWNER:	SUBDIVISION NAME: DORSEY HALL				SECT./AREA 2/5		PARCEL O-3
CONSOLIDATED CASUALTY JOINT VENTURE 6625 Selnick Drive Baltimore Md 21227	PLAT No 8886	BLOCK No 4	ZONE P.O.R.	TAX MAP No 30	ELEC. DIST. 2ND		CENSUS TR 6023.01
	WATER CODE F08			SEWER CODE 5750600			

CLARK • FINEFROCK & SACKETT, INC.
ENGINEERS • PLANNERS • SURVEYORS
7135 MINSTREL WAY • COLUMBIA, MD. 21045 • (301) 381-7500 – BALTO. • (301) 621-8100 – WASH

DESIGNED RHG KIWM	SITE DEVELOPMENT PLAN OFFICE BUILDING PARCEL O-3	SCALE 1"=30'
DRAWN KIWM	**DORSEY HALL**	DRAWING 1 OF 6
CHECKED JLS WHT	SECTION 2 AREA 5 2ND ELECTION DISTRICT HOWARD COUNTY, MARYLAND	JOB NO. 88-146
DATE 10-5-89	FOR: CONSOLIDATED HOME BUILDERS, INC. 6625 Selnick Drive Baltimore, Md. 21227	FILE NO. 88-146X

No	REVISIONS	Date
1	Added Dumpster Pad, deleted 2 Parking Spaces	9-3-91

STATE OF MARYLAND G. NELSON CLARK NO. 7139 REGISTERED PROFESSIONAL ENGINEER 10-5-89

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

[signature] COUNTY HEALTH OFFICER	2-6-90 DATE

APPROVED: HOWARD COUNTY DEPT. OF PLANNING & ZONING

[signature] DIRECTOR	3.5.90 DATE
[signature] CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT	2/5/90 DATE

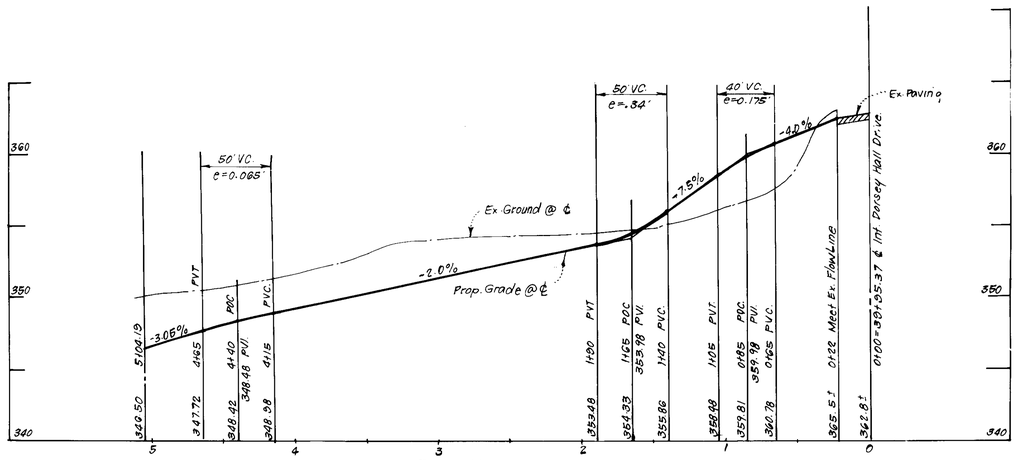
LS

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

[signature] DIRECTOR	2/2/90 DATE
[signature] CHIEF BUREAU OF ENGINEERING	2-1-90 DATE

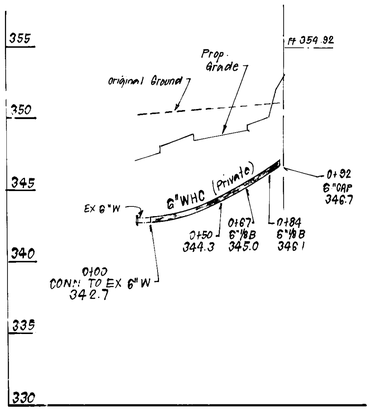
144244

SDP-90-80 **AS-BUILT**



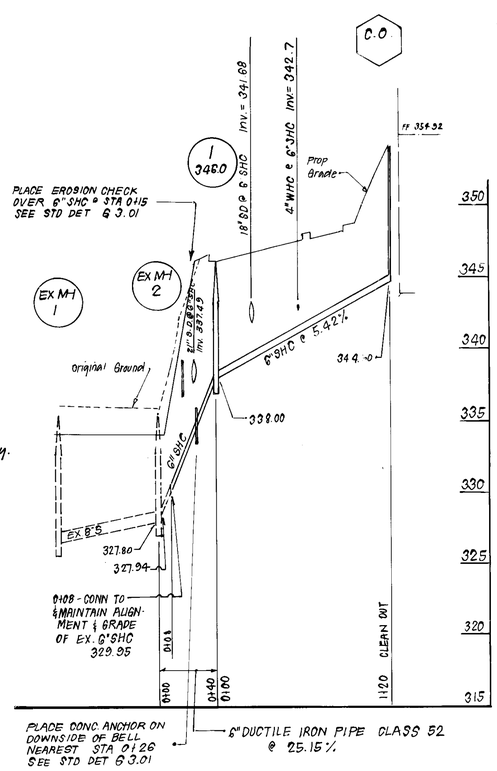
PROFILE

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



WATER & SEWER NOTES

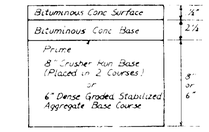
1. All construction methods and materials for on-site private water and sewer systems shall follow the current edition of the Howard County Plumbing Code, supplemented by the Howard County Standard Details and Specifications where necessary.
2. Areas where water house connections are to be built shall be at final grade and connections shall be laid with a minimum of 3.5' cover.
3. Water and sewer house connections shall be built to within 5' of building.
4. 6" Water pipe shall be Ductile Iron, Class 52.
5. 6" Sewer pipe shall be PVC unless otherwise noted on profile.



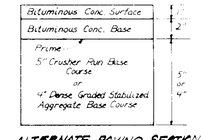
PLACE CONC. ANCHOR ON DOWNSIDE OF BELL NEAREST STA 0+26 SEE STD DET G 3.01

6" DUCTILE IRON PIPE CLASS 52 @ 25.15%

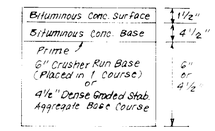
NOTE: CONFIRM EXACT LOCATION (HOR & VERT) OF EX. 6" SHC WELL IN ADVANCE OF CONSTRUCTION IF CONFLICT APPEARS IMMINENT, CONTACT OFFICE WITH AS-BUILT LOCATION



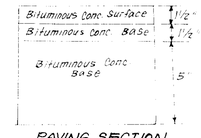
ALTERNATE PAVING SECTION FOR TRAVELLED WAY
¼" SCALE
(SECTION P-2)



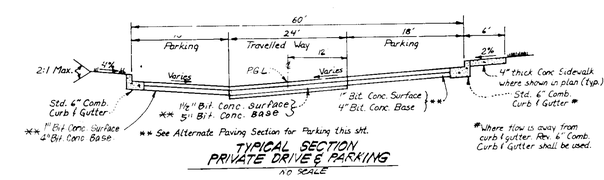
ALTERNATE PAVING SECTION FOR PARKING AREAS
1/8" SCALE
(SECTION P-1)



ALTERNATE PAVING SECTION FOR PUBLIC ROADS.
NO SCALE
(SECTION P-3)



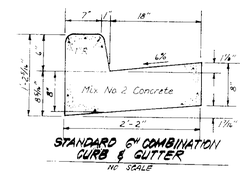
PAVING SECTION FOR PUBLIC ROAD
NO SCALE
(SECTION P-3)
SEE PLAN VIEW



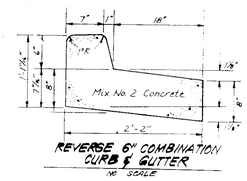
** See Alternate Paving Section for Parking this sht.

\# Where flow is away from curb & gutter, Rev. 6" Comb. Curb & Gutter shall be used.

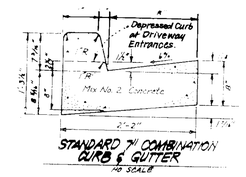
TYPICAL SECTION
PRIVATE DRIVE & PARKING
NO SCALE



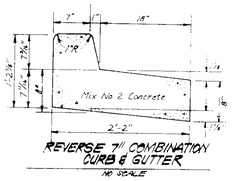
STANDARD 6" COMBINATION CURB & GUTTER
NO SCALE



REVERSE 6" COMBINATION CURB & GUTTER
NO SCALE



STANDARD 7" COMBINATION CURB & GUTTER
NO SCALE

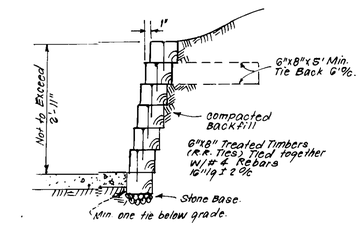


REVERSE 7" COMBINATION CURB & GUTTER
NO SCALE

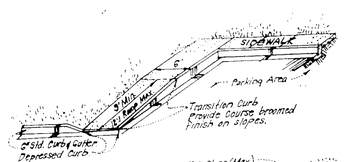
NOTE:
1. Sign shall meet design standards of Federal Hwy. Administration.
2. One required per parking space placed as shown (8 spaces)

HANDICAP PARKING SIGN DETAIL
NO SCALE

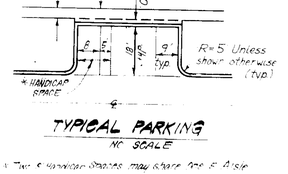
COLORS
Legend and Border - Green
White Symbol on Blue Background
Background - White



TYPICAL RETAINING WALL
No SCALE



HANDICAP RAMP DETAILS
NO SCALE



TYPICAL PARKING
NO SCALE

* Two 8' Handicap Spaces may share one 5' Aisle

12-6-89
LS

OWNER:
CONSOLIDATED CASUALTY JOINT VENTURE
6625 Selnick Drive
Baltimore Md. 21227

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

COUNTY HEALTH OFFICER — DATE 2-6-90

APPROVED: HOWARD COUNTY DEPT. OF PLANNING & ZONING

DIRECTOR — DATE 3.5.90

CHIEF DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT — DATE 2/5/90 LS

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

DIRECTOR — DATE 2/2/90

CHIEF BUREAU OF ENGINEERING — DATE 2-1-90

STATE OF MARYLAND
G. NELSON CLARK
NO. 7138
REGISTERED PROFESSIONAL ENGINEER
10-5-89

CLARK • FINEFROCK & SACKETT, INC.
ENGINEERS • PLANNERS • SURVEYORS
7135 MINSTREL WAY • COLUMBIA, MD 21045 • (301) 997-7500 • BALTIMORE • ANNAPOLIS

DESIGNED: KIWM	SITE DEVELOPMENT PLAN DETAILS PARCEL 03	SCALE: As Shown
DRAWN: KIW	**DORSEY HALL**	DRAWING: 20F6
CHECKED: JLS	SECTION 2 AREA 5 2ND ELECTION DISTRICT HOWARD COUNTY, MARYLAND.	JOB NO: 88-146
DATE: 10-5-89	PREP. FOR: CONSOLIDATED HOME BUILDERS, A.J. 6625 SELNICK DRIVE BALTIMORE, MD. 21227	FILE NO: 88-146-X

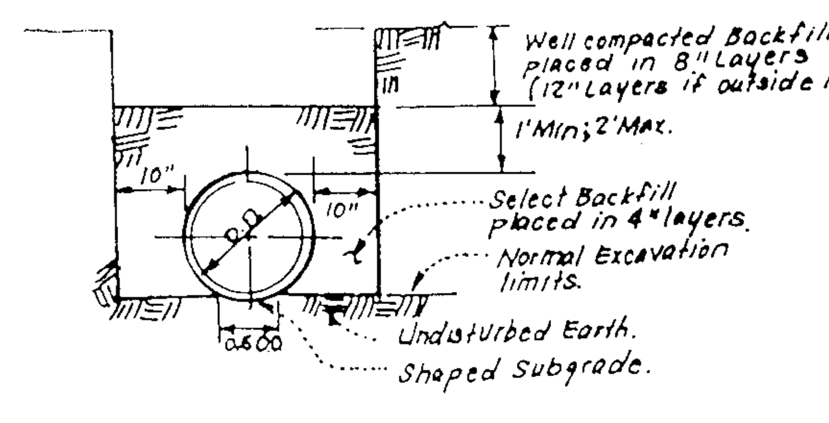
SDP-90-80

STRUCTURE DATA (OIL GRIT SEPARATOR)

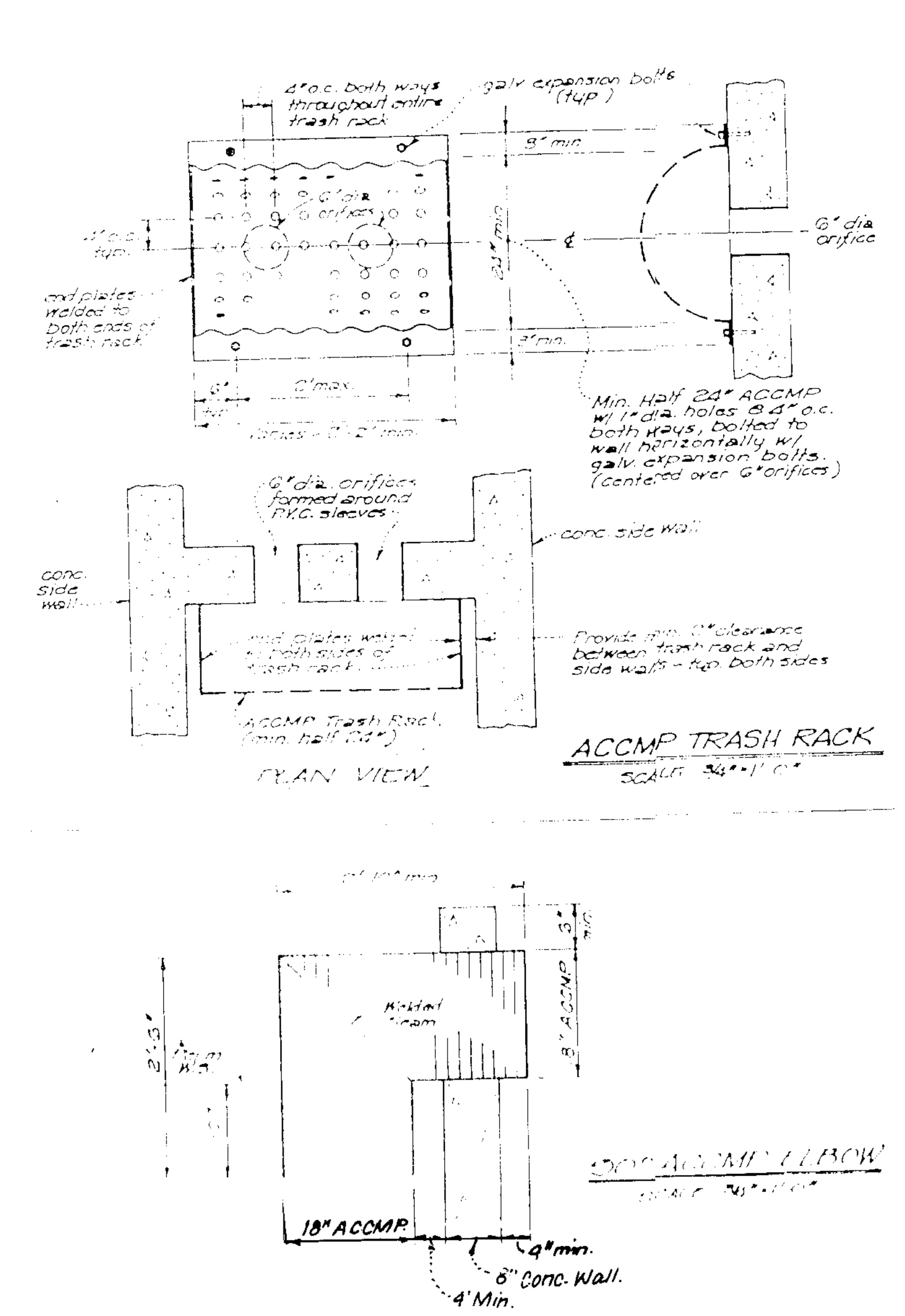
Str. No.	Drain. Area	Volume Req'd.	Volume Provided	DIMENSIONS A	B	C*	D*	E.	F	G	Floor Slab Elev.	18" ACCMP Elbow Inv.	Throat Length if Req'd.	Top Slab Elevation Upper	Lower
OG #10	1.40	560 CF	569. CF	~~27'~~ 27.17	5.34'	~~13.54'~~ 13.5	~~6.78'~~ 7.00	4.0'	~~14.2X'~~ 14.17	7.0'	~~338.58~~ 337.44	~~340.58~~ 341.54	10'	~~346.4~~ 347.27	~~346.0~~ 346.85

NOTE: For storm drain inverts, see storm drain profiles.
Storage required = 40 c.f. per 0.1 Ac. of drainage area.
(Total storage computed to depth (G).
* When combined length of oil and grit chambers exceed 12 Feet, "D" = 1/2 x "C" (C = 2/3 total & "D" = 1/3 total).

Notes:
1. For O.D. of pipe see manufacturers specs. or field measure circumference of pipe and divide by 3.14.
2. Within road R/W, trench compaction density shall be 95% as determined A.A.S.H.T.O. T-180 A.
3. For conditions requiring solid sheeting or trench shields 'A' shall not exceed 30"



TRENCH COMPACTION DETAIL
NO SCALE



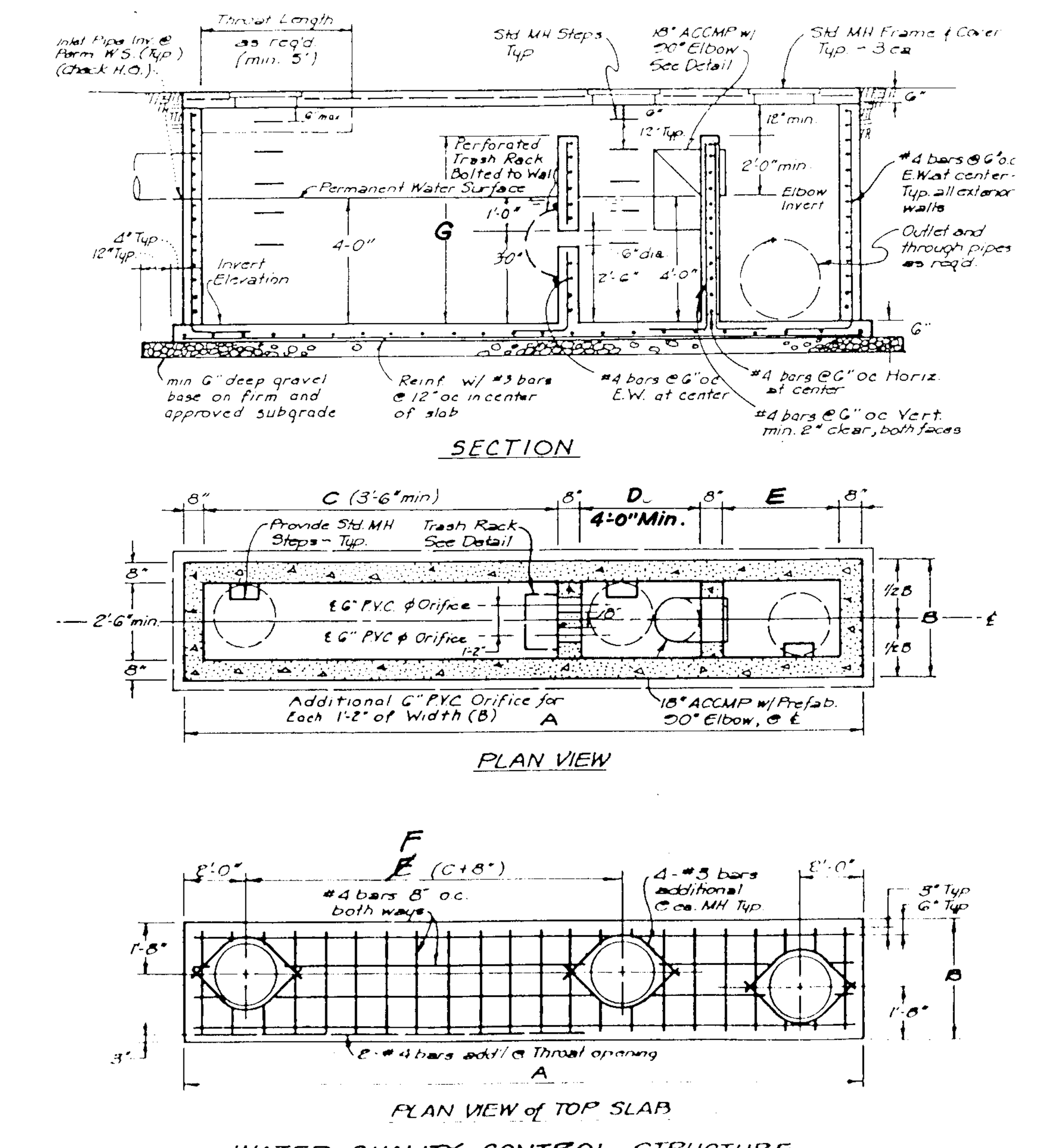
PIPE SCHEDULE

SIZE	TYPE	LENGTH
18"	CMP 16 ga.	76 LF
21"	CMP 16 ga.	70 LF *

2 2/3" x 1/2" Corrugations. *(Total)

STRUCTURE SCHEDULE △

No.	TYPE	INV. IN	INV. OUT	TOP ELEVATION UPPER	LOWER	REMARKS	LOCATION
S-1	A-10 Inlet	—	343.20	347.30		Ho. Co. Std. SD 4.02 W=2'-6"	See Plan.



WATER QUALITY CONTROL STRUCTURE

WATER QUALITY STRUCTURES

DESIGN AND GENERAL NOTES

1. Use poured-in-place concrete for the entire structure.
2. Refer to Maryland State Highway Administration ... methods of construction.
3. Wall thickness shall be as follows:

   Minimum 8 inches thick for the first 8'-0" of depth ... walls between 8'-0" and 12'-0" of depth and 10 inches ... depth greater than 12'-0". Depth to be measured ... to crown of outgoing pipe.
4. f'c = 3,500 psi at 28 days.
5. All reinforcing steel to be ASTM A615, GR.60.
6. For details concerning throat openings, refer to M... 55.

Throat Length	No. of Pipe Supports
5'	0
10'	1
15'	[illegible]
20'	3

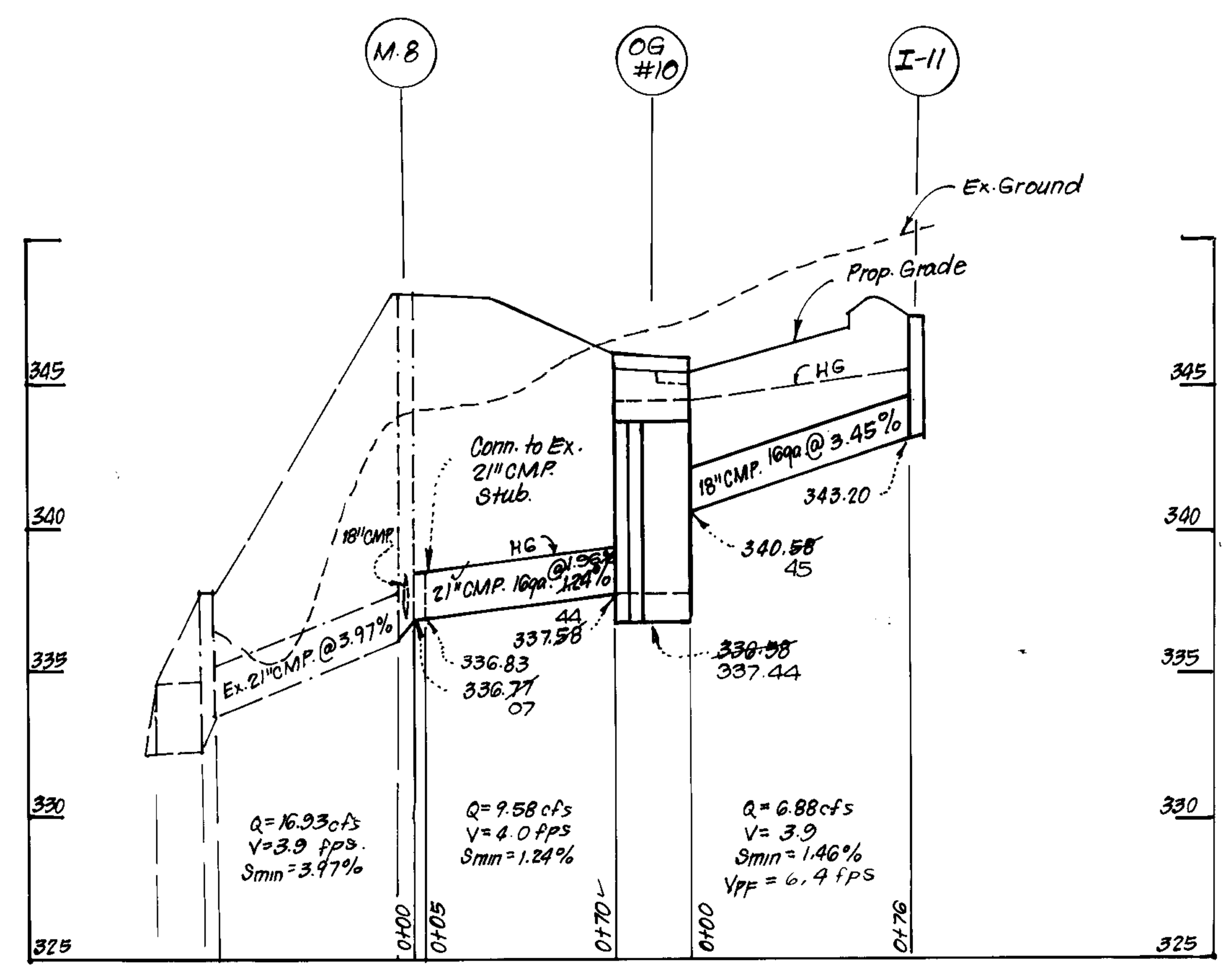
   pipe supports to be spaced at 5'-0" O.C
7. For details not noted in this standard, refer to MCDOT standard ... 55.
8. The top 4 inches of walls may be brick masonry for leveling, if required. Brick masonry shall comply with the latest SHA Specification.
9. When grate opening is used, refer to the appropriate SHA Standard for details. Details shall be shown on the plans.
10. When inside width of structure is greater than 4'-0", reinforcing shall be revised as needed.
11. When structure is subject to traffic loading, reinforcing shall be designed for the appropriate traffic loads. Design loads shall be indicated on the plan.
12. All inlets and incoming pipes shall be checked for possible ... or tailwater problems.

CONSTRUCTION NOTES

1. Silt and debris shall not be allowed to enter the structures until contributing drainage areas have been permanently stabilized.
2. All openings to structures shall be protected with the appropriate sediment control measures during consturction.

MAINTENANCE NOTES (WATER QUALITY STRUCTURE WASTE)

1. Water Quality Structures will require periodic cleaning. Owners of these facilities will have to clean them as needed or on a frequency that the County determines is appropriate. Owners of Water Quality Structures will be notified by the County of the frequency of maintenance.
2. Maintenance of these facilities will consist of cleaning out the Separator and disposal of the waste and the repair of the facility as needed. Periodic inspections of these facilities will be made by the County Stormwater Management group.
3. The disposal of the liquid and solid matter should be as follows:
   A. All liquid material in the Separator inlet shall be pumped into a suitable tank truck and disposed of at an approved Sanitary District discharge manhole or be taken to an approved sewage treatment plant for discharge.
   B. The solid material shall be landfilled in an approved Sanitary Landfill.
4. The inlet pipes, trash racks, grates, and structural parts shall be repaired as needed.



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

For AS-BUILT by Clark, Finefrock & Sackett, Inc. 5/11/92

APPROVED ... DATE 12-6-89 LS

OWNER:
CONSOLIDATED CASUALTY JOINT VENTURE
6625 Selnick Drive
Baltimore Md. 21227

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

COUNTY HEALTH OFFICER	DATE 2-6-90

APPROVED: HOWARD COUNTY DEPT. OF PLANNING & ZONING

DIRECTOR	DATE 3.5.90
CHIEF DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT	DATE 2/5/90

LS

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

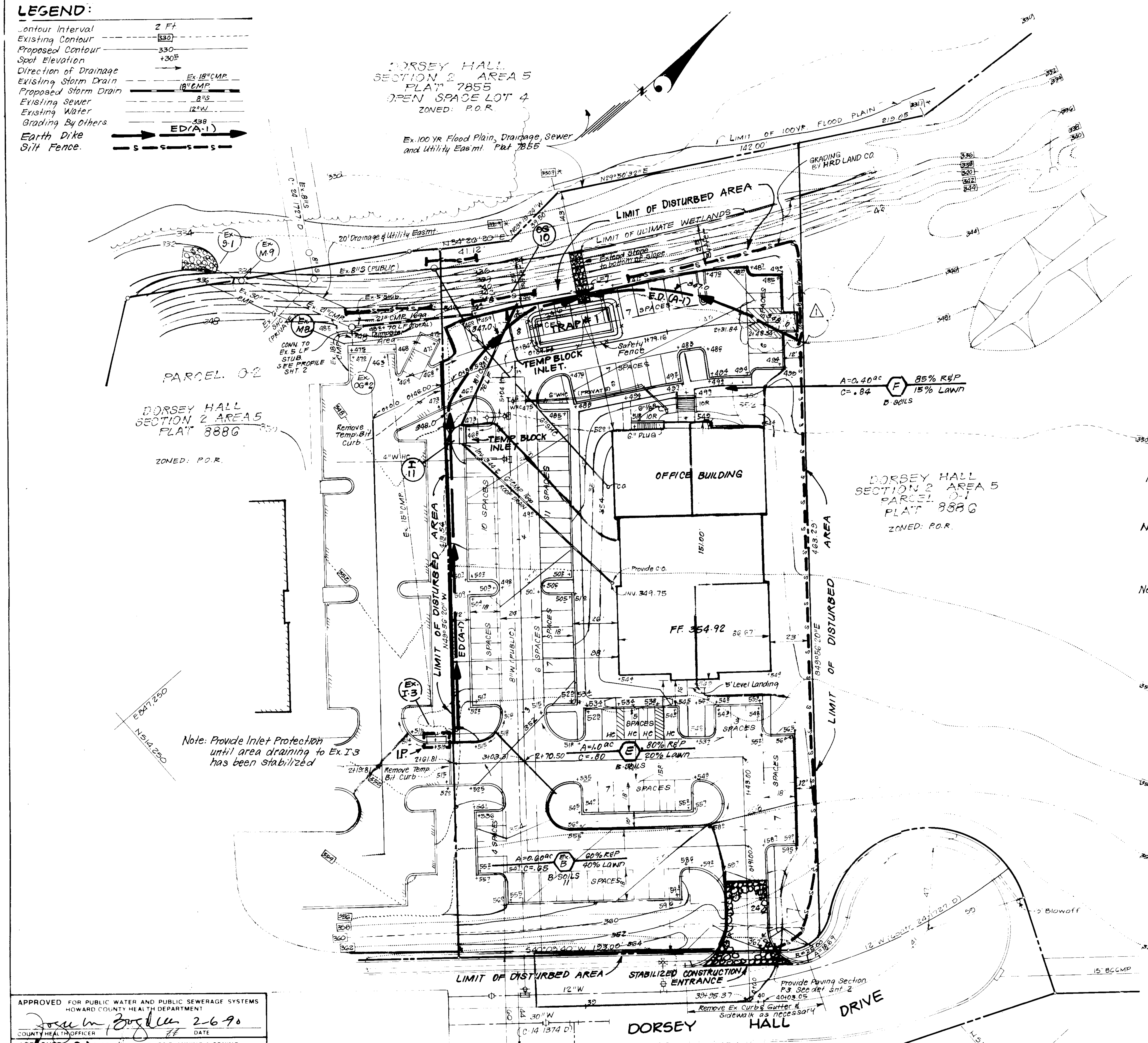
DIRECTOR	DATE 2/2/90
CHIEF BUREAU OF ENGINEERING	DATE 2-1-90

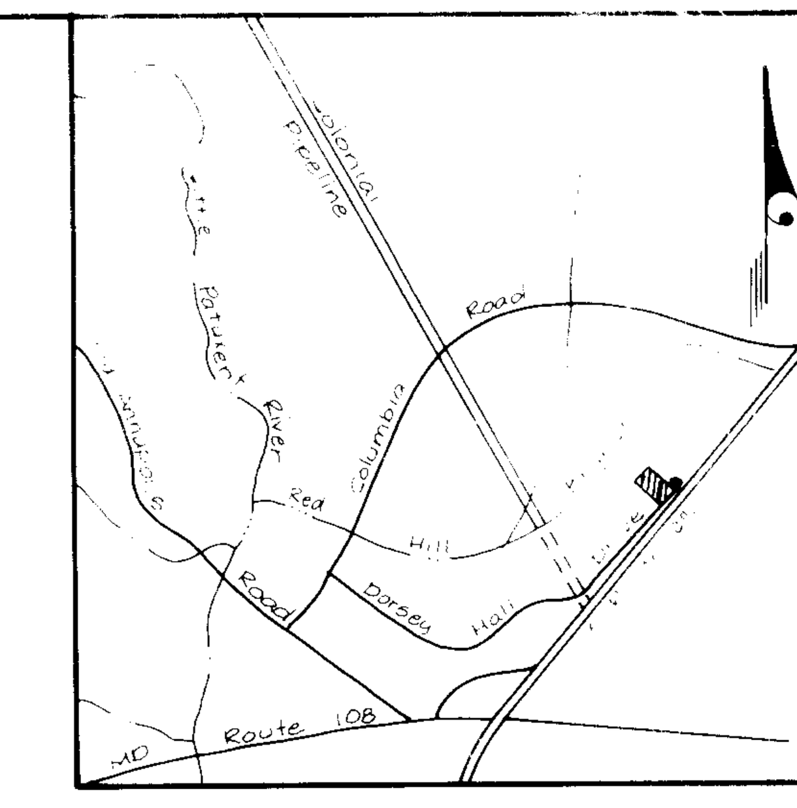
CLARK • FINEFROCK & SACKETT, INC.
ENGINEERS • PLANNERS • SURVEYORS
7135 MINSTREL WAY • COLUMBIA MD ... • ... 381-75... • BALT ...

DESIGNED KIWM	SITE DEVELOPMENT PLAN DETAILS PARCEL 03	SCALE As Shown
DRAWN KIW	**DORSEY HALL**	DRAWING 3 OF 6
CHECKED JLS	SECTION 2 AREA 5 2ND ELECTION DISTRICT HOWARD COUNTY, MARYLAND.	JOB NO 88-146
DATE 10-5-89		FILE NO 88-146 X

10-5-93

SDP-90-80 AS-BUILT





VICINITY MAP
Scale 1" = 2,000'

TRAP #1 S.O.S.T (ST-V)

Drainage Area = 1.4 Ac
Storage Required = 3060 cf
Storage Provided = 3060 cf
Depth = 4'
Top of Stone Weir = 346.5
Bottom Elev. = 341.5
Clean Out Elev. = 343.5
Bottom Dimensions = 41' X 13'
1:1 Side Slopes in Cut
L = 7'

Note: Area disturbed by storm drain installation and SHC. shall be stabilized at the end of each day. Provide silt fence as required.

Note: The contractor shall provide continuous maintenance to Earth Dike at northwest end of parking area on a daily basis to insure positive drainage to Trap #1.

Note: sediment Controls are to be removed only after receiving permission from the sediment control inspector.

CONSTRUCTION SEQUENCE:

	No. OF DAYS
1. Obtain Grading Permit.	7
2. Install Sediment & Erosion Control Measures.	14
3. Clear and Rough Grade Site.	30
4. Construct Storm Drainage; Block Inlets as shown.	90
5. Construct Utilities.	30
6. Fine grade & construct paving except in area of Trap #1.	120
7. Construct Building & Walks.	180
8. Stabilize all disturbed areas in accordance with standards & specs.	30
9. Upon approval of the sediment control inspector, remove sediment & erosion control measures and construct remainder of parking area and stabilize as necessary.	7

12-6-89
LS

Reviewed for HOWARD S.C.D.
Name
and meets Technical Requirements
12/19/89
Signature Date
U.S. Soil Conservation Service

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

John R. Robertson 12/19/89
Approved 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 of Developer/Builder — 10-5-89 Date

OWNER:
CONSOLIDATED CASUALTY JOINT VENTURE
6625 Selnick Drive
Baltimore Md. 21227

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 Clark — 10-5-89 Date

STATE OF MARYLAND G. NELSON CLARK No. 7139 REGISTERED PROFESSIONAL ENGINEER
10-5-89

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS
HOWARD COUNTY HEALTH DEPARTMENT
COUNTY HEALTH OFFICER — 2-6-90 DATE

APPROVED: HOWARD COUNTY DEPT. OF PLANNING & ZONING
DIRECTOR — 3.5.90 DATE
CHIEF DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT — 2/5/90 DATE
LS

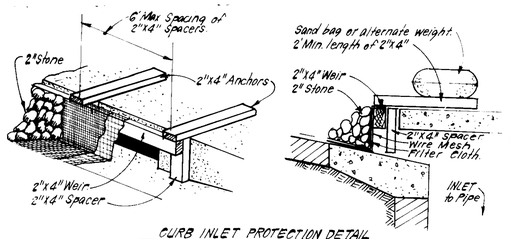
APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
DIRECTOR — 2/2/90 DATE
CHIEF BUREAU OF ENGINEERING — 2-1-90 DATE

Nº	REVISIONS	Date
1	Added Dumpster Pad	9-9-91

CLARK • FINEFROCK & SACKETT, INC.
ENGINEERS • PLANNERS • SURVEYORS
7135 MINSTREL WAY • COLUMBIA MD 21045

DESIGNED KIWM	SEDIMENT & EROSION CONTROL PLAN AND DRAINAGE AREA MAP PARCEL O-3	SCALE 1" = 30'
DRAWN KIWM	**DORSEY HALL**	DRAWING 4 OF 6
CHECKED JLS WHT	SECTION 2 AREA 5 2ND ELECTION DISTRICT HOWARD COUNTY, MARYLAND	JOB NO 88-146
DATE 10-5-89	FOR: CONSOLIDATED HOME BUILDERS, INC 6625 Selnick Drive Baltimore Md. 21227	FILE NO 88-146SE

SDP-90-80



CURB INLET PROTECTION DETAIL

CONSTRUCTION SPECIFICATIONS:

I MATERIALS: A. Wooden frame is to be constructed of 2"x4" construction grade lumber.

B. Wire mesh must be of sufficient strength to support filter fabric and stone for curb inlets, with water fully impounded against it.

C. Filter cloth must be of a type approved for this purpose; resistant to sunlight with sieve size, EOS, 40 BS, to allow sufficient passage of water and removal of sediment.

D. Stone is to be 2" in size and clean, since fines would clog the cloth.

II PROCEDURE: SWALE, DITCHLINE OR YARD INLET PROTECTION

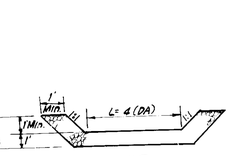
1. Excavate completely around inlet to a depth of 18" below inlet elevation.
2. Drive 2x4 post 1' into ground at four corners of inlet. Place nail strips between posts on ends of inlet. Assemble top portion of 2x4 frame using overlap joint shown. Top of frame (weir) must be 6" below edge of road way adjacent to inlet.
3. Stretch wire mesh tightly around frame and fasten securely. Ends must meet at post.
4. Stretch filter cloth tightly over wire mesh, the cloth must extend from top of frame to 18" below inlet hatch elev. Fasten securely to frame. Ends must meet at posts, be overlapped and folded, then fastened down.
5. Backfill around inlet in compacted 6" layers until layer of earth is even with notch elevation on ends and top elevation on sides.
6. If the inlet is not in a low point, construct a compacted earth dike in the ditch line below it. The top of this earth dike is to be at least 6" higher than the top of frame (weir).
7. The structure must be inspected frequently and filter fabric replaced when clogged.

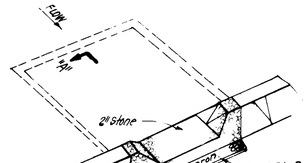
I PROCEDURE: CURB INLET PROTECTION

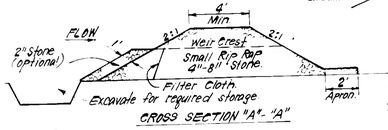
1. Attach a continuous piece of wire mesh (30" min. width by throat length plus 4') to the 2"x4" weir (measuring throat length plus 2') as shown on std. drawing.
2. Place a piece of approved filter cloth (40-85 sieve) of the same dimensions as the wire mesh over the wire mesh and securely attach to the 2"x4" weir.
3. Securely nail the 2"x4" weir to 3" long vertical spacers to be located between the weir and inlet face (max. 6' apart).
4. 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.
5. The assembly shall be placed so that the end spacers are a min. 1' beyond both ends of throat opening.
6. Form 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.
7. This type of protection must be inspected frequently and the filter cloth and stone replaced when clogged with sediment.
8. 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







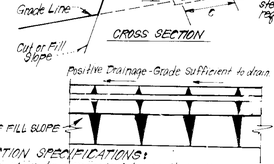
OPTION: A 1' layer of 2" Stone may be placed on the upstream side of the rip rap in place of embedded filter cloth.

CONSTRUCTION SPECIFICATIONS:

1. Area under embankment shall be cleared, grubbed and stripped of any vegetation and root mat. The pool area shall be cleared.
2. The fill material for the embankment shall be free of roots and other woody vegetation as well as over-sized stones, rocks, or any other material or other objectionable material. The embankment shall be compacted by traversing with equipment while it is being constructed.
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" 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.
5. Sediment shall be removed and trap restored to its original dimensions when the sediment has accumulated to ½ 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. All dikes shall be compacted 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. Field 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. Runoff shall be conveyed to a sediment trapping device such as a sediment trap or sediment basin where either the dike channel or the drainage area above the dike are not adequately stabilized.
6. Stabilization 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 GRADE	DIKE A	DIKE B
1	0.5-3.0%	Seed & Straw Mulch	Seed or Straw Mulch
2	3.1-5.0%	Seed & Straw Mulch	Sead w/Jute, or Excelsior; Sod, 2" Stone
3	5.1-8.0%	Seed w/Jute or Sod; 2" Stone	Lined Rip Rap 2"-8" Stone
4	8.1-20.0%	Lined Rip Rap 4"-8" Stone	Engineering Design

A. Stone to be 2" Stone, or recycled concrete equivilent, 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.
C. Approved 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

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 Preparations: Loosen upper three inches of soil by raking, discing or other acceptable means before seeding, if not previously loosened.

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

1) Preferred - Apply 2 tons per acre dolomitic limestone (94 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 4 0 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 1½ 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.

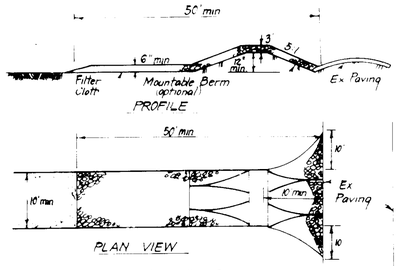
Seedbed Preparations: Loosen upper three inches of soil by raking, discing or other acceptable means before seeding, if not too steeply inclined.

Soil Amendments: Apply 600 lbs per acre of 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 2½ bushels per acre of annual rye (1.5 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 1½ 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 ft or higher, use 348 gal per acre (8 gal/1000 sq ft) for anchoring.

Refer to the FULL MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL for rates and methods not covered.



CONSTRUCTION SPECIFICATIONS:

1. Stone size - Use 2" stone, or reclaimed or recycled concrete equivalent.
2. Length - As required, but not less than 50 feet (except on 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 conditions demand and repair and/or cleanout of any measures used to trap sediment. All sediment spilled, dropped, washed or tracked onto public rights-of-way must be removed immediately.
8. 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.
9. Periodic inspection and needed maintenance shall be provided after each rain.

STABILIZED CONSTRUCTION ENTRANCE (SCE)

NO SCALE

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, Chaper 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 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.

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	2.147 Acres
Area Disturbed	1.92 Acres
Area to be roofed or paved	1.32 Acres
Area to be vegetatively stabilized	0.60 Acres
Total Cut	2977 Cu. yds
Total Fill	2254 Cu. yds
Offsite waste/borrow area location	Undetermined

8) Any sediment control practice which is disturbed by grading activity for placement of utilities must be repaired on the same day of disturbance.

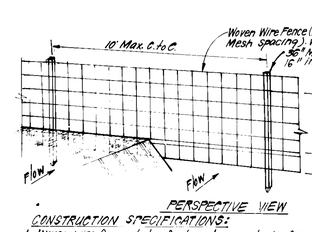
9) Additional sediment control must be provided, if deemed necessary by the Howard County DPW sediment control inspector.

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-Sold" 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 635 L.F.



CONSTRUCTION SPECIFICATIONS:

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

POSTS: Steel either T or U Type or 2" Hardwood
FENCE: Woven Wire, 14½ gauge, 2" Max. Mesh Opening
FILTER CLOTH: Filter X, Mirafi 100, Stabinka, Typar or Approved equal
PREFABRICATED UNIT: geofab, Enviofence or Approved equal

SILT FENCE DETAIL (S)

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 Soil Conservation District or their authorized agents, as are deemed necessary."

Signature of Developer/Builder — Date: 10-5-89

OWNER:
CONSOLIDATED CASUALTY JOINT VENTURE
6625 Selnick Drive
Baltimore Md. 21227

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 Clark — Date: 10-5-89

12-6-89
LS

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT
COUNTY HEALTH OFFICER — DATE 12-6-90

APPROVED: HOWARD COUNTY DEPT. OF PLANNING & ZONING
DIRECTOR — DATE 3.5.90
CHIEF DIVISION OF COMMUNITY PLANNING AND DEVELOPMENT — DATE 2/5/90 LS

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
DIRECTOR — DATE 2/2/90
CHIEF BUREAU OF ENGINEERING — DATE 2-1-90

Reviewed for Howard S.C.D.
Name
and meets Technical Requirements
Signature — Date 12/19/89
U.S. Soil Conservation Service

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

Approved — Date 12/19/89

CLARK • FINEFROCK & SACKETT INC
ENGINEERS • PLANNERS • SURVEYORS
TOWSON, MD. • ANNAPOLIS, MD.

DESIGNED	KIWM
DRAWN	KIWM
CHECKED	JLS
DATE	10-5-89

SEDIMENT & EROSION CONTROL PLAN DETAILS
PARCEL O-3
DORSEY HALL
SECTION 2 AREA 5
2ND ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

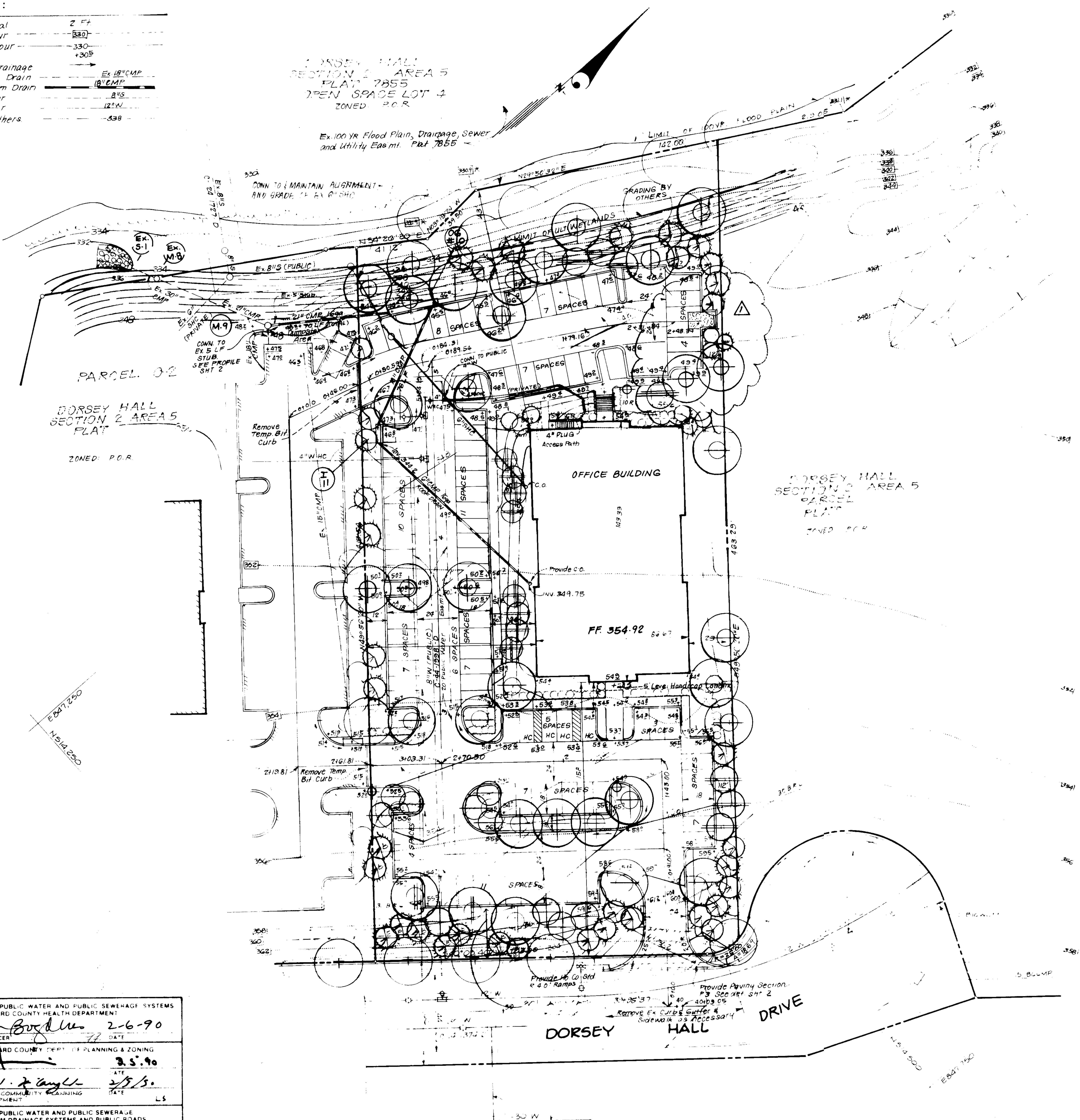
OWNER & DEVELOPER: CONSOLIDATED HOME BUILDERS, INC 6625 Selnick Drive Baltimore, Md. 21227

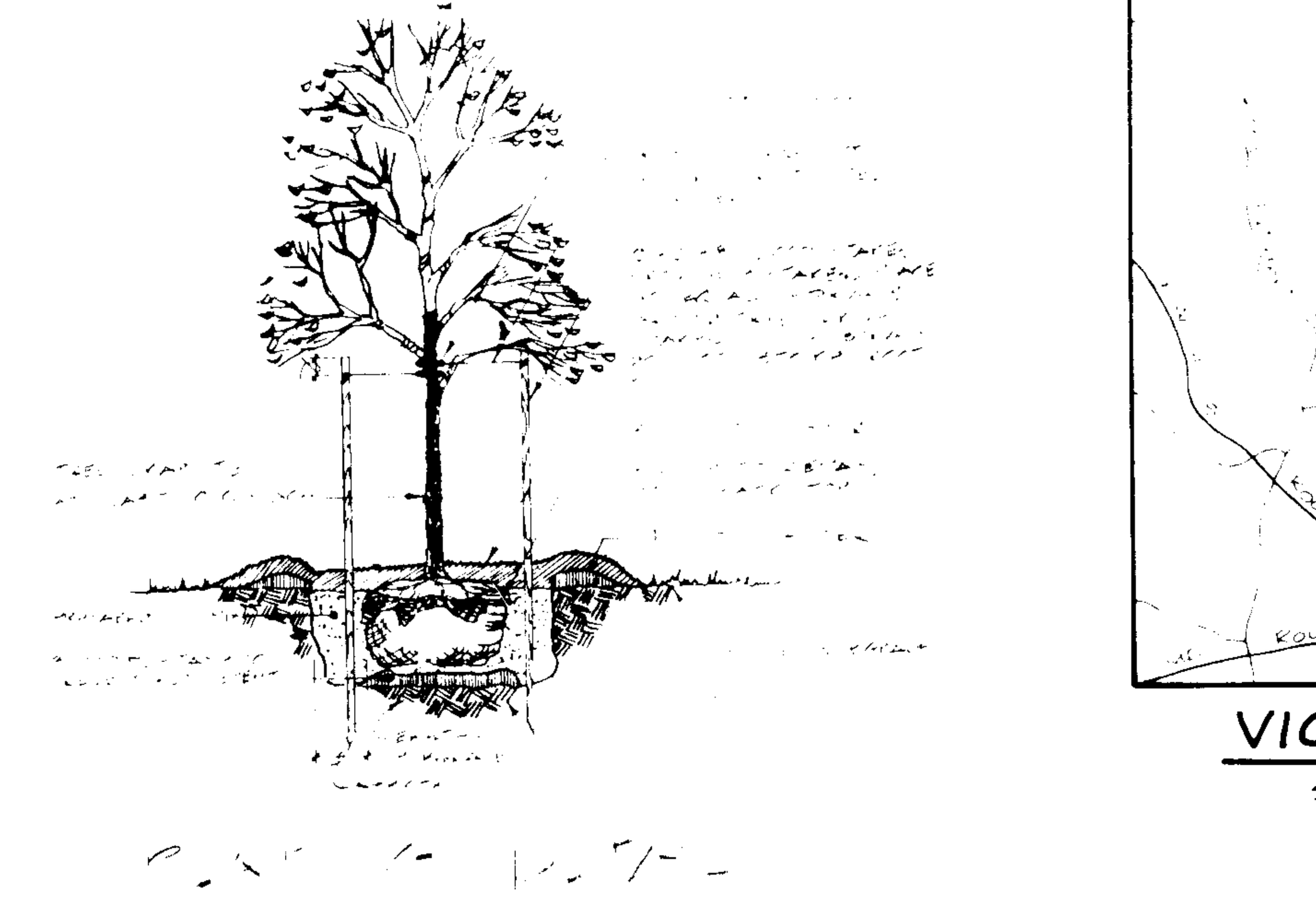
As Shown | 5 OF 6 | 88-146 | 88-140 SE

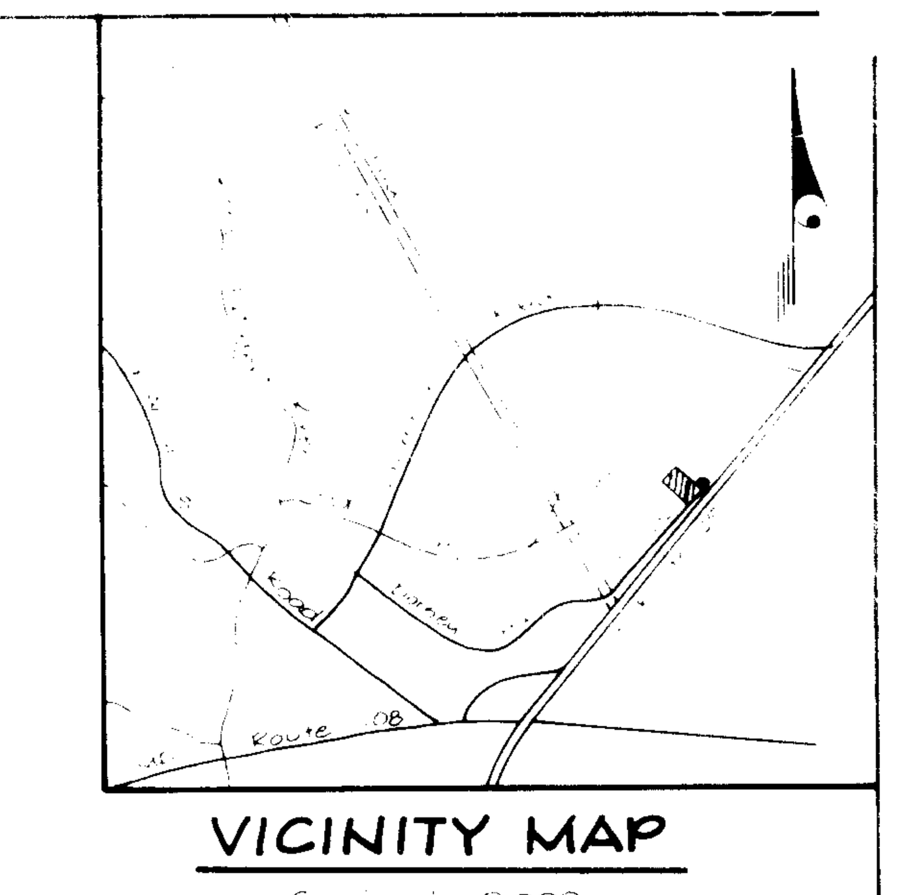
SDP-90-80

LEGEND:

Contour Interval	2 Ft
Existing Contour	330
Proposed Contour	330
Spot Elevation	+30.5
Direction of Drainage	→
Existing Storm Drain	Ex 18"CMP
Proposed Storm Drain	18"CMP
Existing Sewer	8"S
Existing Water	12"W
Grading By Others	338







VICINITY MAP

Scale 1"=2000'

PLANT SCHEDULE

	PLANT NAME	SIZE	QTY	REMARKS
	MAJOR TREE			
	ACER [illegible]	2-2½" CAL	[illegible]	[illegible]
	FRAXINUS PENN. [illegible]			
	QUERCUS [illegible]		3	
	ZELKOVA [illegible]			
	EVERGREEN			
	[illegible]	[illegible]	[illegible]	[illegible]
	[illegible]		28	
	ILEX [illegible]			
	MINOR TREE			
	[illegible]	2-2½"	[illegible]	[illegible]
	[illegible]		4	
	[illegible]		[illegible]	
	[illegible]		4	
	[illegible]		[illegible]	
	[illegible] GROUNDCOVER *			
	[illegible]	[illegible]	[illegible]	[illegible]
	[illegible]	[illegible]	[illegible]	[illegible]
*	[illegible]			

[illegible]

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

[signature] 2-6-90
COUNTY HEALTH OFFICER — DATE

APPROVED: HOWARD COUNTY DEPT. OF PLANNING & ZONING

[signature] 3.5.90
DIRECTOR — DATE

[signature] 2/5/90
CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT — DATE
LS

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

[signature] 2/2/90
DIRECTOR — DATE

[signature] 2-1-90
CHIEF BUREAU OF ENGINEERING — DATE

12-6-89
LKS

No	REVISIONS	Date
1	Added Dumpster Pad, Revised landscaping	9.9.91

OWNER:
CONSOLIDATED CASUALTY JOINT VENTURE
6625 Selnick Drive
Baltimore Md. 21227

CLARK • FINEFROCK & SACKETT, INC.
ENGINEERS • PLANNERS • SURVEYORS

DESIGNED	[illegible] OFFICE BUILDING PARCEL O-3 **DORSEY HALL** SECTION 2 AREA 5 2ND ELECTION DISTRICT HOWARD COUNTY, MARYLAND	SCALE 1"=30'
DRAWN [illegible]		DRAWING F6
CHECKED		JOB NO 88-146
DATE [illegible]-89	FOR: CONSOLIDATED HOME BUILDERS INC 6625 Selnick Drive Baltimore Md 21227	FILE NO 88-146

SDP-90-80