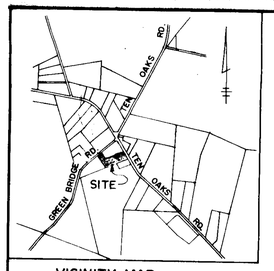
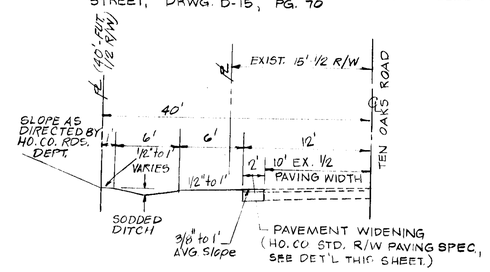


VICINITY MAP
SCALE: 1" = 1200'

REVISIONS				
ISSUE	BY & DATE	DESCRIPTION	CHECK	APPROVED & DATE

TYPICAL HALF SECTION DETAIL
TEN OAKS ROAD
NO SCALE

SEE TYPICAL HOWARD COUNTY RESIDENTIAL AND COLLECTOR STREET, DRWG. D-15, PG. 70



BIT. CONC. SURFACE	1" BAND C-3
BITUMINOUS CONCRETE BASE	4"
	BAND C-2 OR G-3

CLEARING AND GRADING	ARTICLE C-1
SUBGRADE	ARTICLE C-2
BASE COURSE	ARTICLE C-31 OR C-33
SURFACE	ARTICLE C-31

HOWARD CO. STD. DRWG. D-13 PAGE 68

1. BASE WILL BE PRIMED IN ACCORDANCE WITH C-30-3 AS PROVIDED IN THE HOWARD CO. ROAD CONSTRUCTION CODE AND STANDARD SPECIFICATIONS.
2. TACK COAT IS TO BE IN ACCORDANCE WITH C-31-4 AS PROVIDED IN THE HOWARD CO. ROAD CONSTRUCTION CODE AND STANDARD SPECIFICATIONS.
3. ALL PAVING MATERIAL TO BE IN ACCORDANCE WITH HOWARD CO. ROAD CONSTRUCTION CODE AND STANDARD SPECIFICATIONS.

ONSITE PAVING SPEC.
NO SCALE

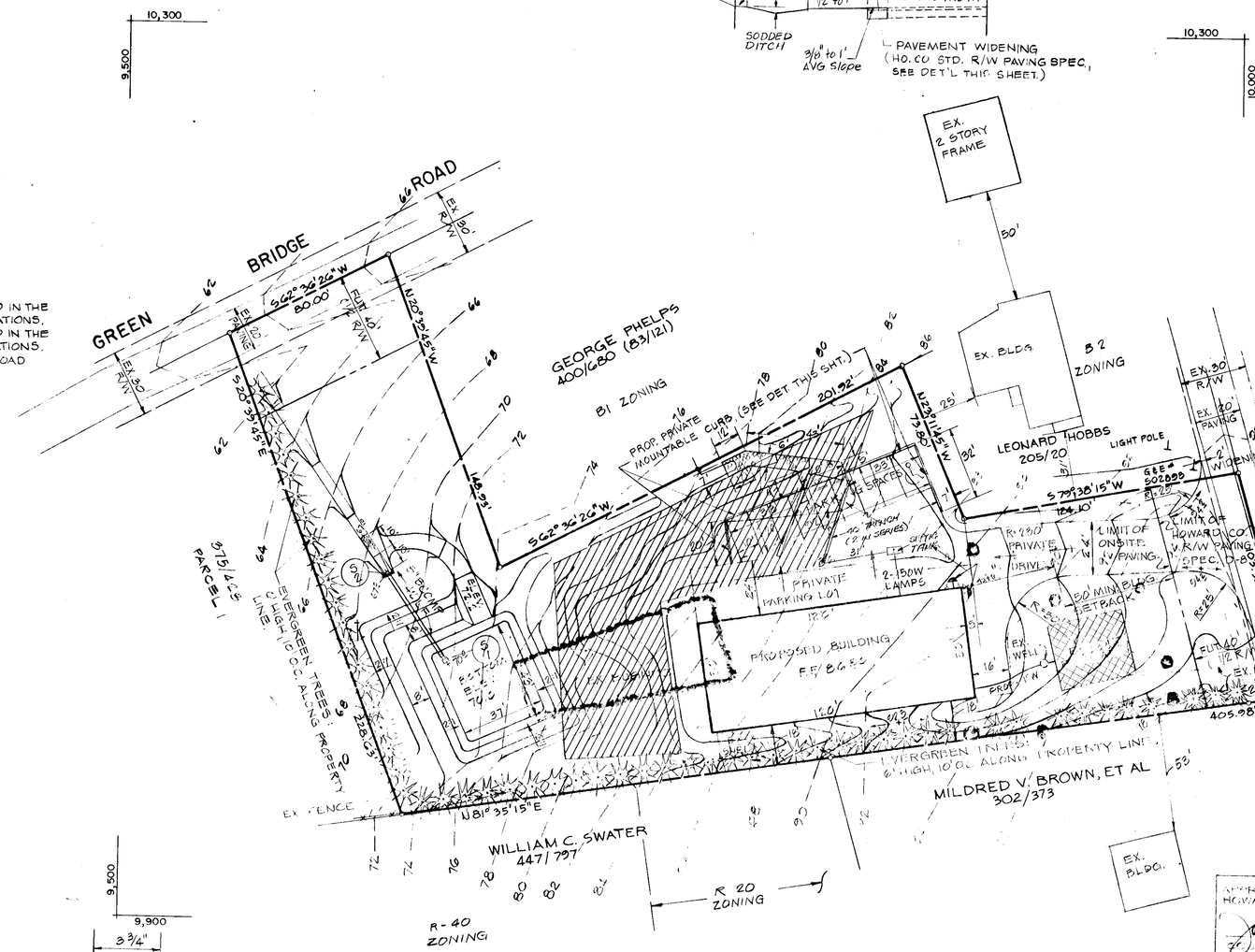
BIT. CONC. SURFACE	1 1/2" BAND C-3
BIT. CONC. BINDER	5" (GRAVEL MIX)
CRUSHER RUN BASE	6"

HOWARD CO. STD. DRWG. D-8 PAGE 63

1. BASE WILL BE PRIMED IN ACCORDANCE WITH C-30-3 AS PROVIDED IN THE HOWARD CO. ROAD CONSTRUCTION CODE AND STANDARDS.
2. TACK COAT IS TO BE IN ACCORDANCE WITH C-31-4 AS PROVIDED IN THE HOWARD CO. ROAD CONSTRUCTION CODE AND STANDARD SPECIFICATIONS.
3. ALL PAVING MATERIAL TO BE IN ACCORDANCE WITH HOWARD CO. ROAD CONSTRUCTION CODE AND STANDARD SPECIFICATIONS.

BASE COURSE	ARTICLE C-25
BINDER COURSE	ARTICLE C-31 OR C-35
SURFACE COURSE	ARTICLE C-31

HOWARD COUNTY R/W PAVING SPEC.
NO SCALE



GENERAL NOTES

1) AREA OF PARCEL = 1.873 ACRES
2) ZONING OF PROPERTY = B-2, ZONING BOARD CASE: ZB 665
3) DEED REFERENCE: CMP 825/125
4) TAX MAP: 20, PART OF PARCEL 2
5) PARKING TABULATION:
   SERVICE BLDG. PARKING SPACES REQUIRED
   A. NO. OF EMPLOYEES: 16
   TOTAL PARKING SPACES REQUIRED: 8
   TOTAL PARKING SPACES PROVIDED: 9
6) FLOOR SPACE TABULATION: 6000 SF
7) ▨ DENOTES EXISTING STRUCTURE/S TO BE REMOVED.
8) ANY DAMAGE TO PUBLIC R/W OR PAVING SHALL BE CORRECTED AT DEVELOPERS EXPENSE.
9) REMOVE EXISTING DRYWELL SLAB, BACKFILL DRYWELL.
10) VERTICAL AND HORIZONTAL DATUM IS ASSUMED.
11) PRIVATE WATER AND PRIVATE SEWAGE WILL BE USED WITHIN THIS DEVELOPMENT.
12) EXTERIOR LIGHTING SHALL NOT PROJECT DIRECTLY ONTO ADJACENT RESIDENTIAL PROPERTIES.
13) INTENDED USAGE OF BLDG: BLDG. SUPPLIES STORAGE

6-2-77

APPROVED FOR PRIVATE WATER AND PRIVATE SEWERAGE SYSTEM.
HOWARD COUNTY HEALTH DEPARTMENT

HEALTH OFFICER — 7-27-77 DATE

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING

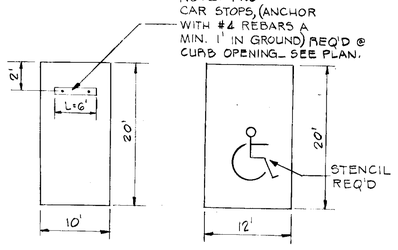
PLANNING DIRECTOR, Acting — 8/4/77 DATE

CHIEF, DIVISION OF LAND DEVELOPMENT — 7-29-77 DATE

APPROVED FOR: SWORM DRAINAGE SYSTEMS AND ROADS

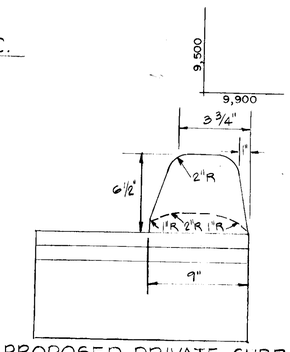
DIRECTOR, DEPARTMENT OF PUBLIC WORKS — 8-2-77 DATE

CHIEF, BUREAU OF HIGHWAYS — 8/2/77 DATE



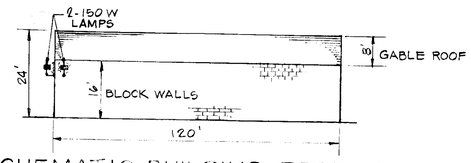
PERPENDICULAR HANDICAPPED

TYPICAL PARKING DETAILS
NO SCALE



PROPOSED PRIVATE CURB MOUNTABLE CURB DETAIL
NO SCALE

SEE TYPICAL HO. CO. STD. DRWG. D-39, PG. 94



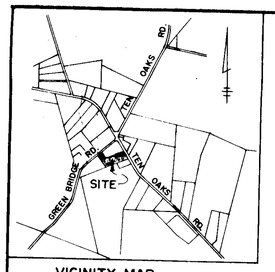
SCHEMATIC BUILDING PROFILE
NO SCALE

OWNER AND DEVELOPER
MR. RONALD HINES
7220 ROUTE 32
CLARKSVILLE, MARYLAND 21029

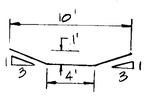
TITLE: SITE PLAN			ENGINEERING PLANNING SURVEYING BY BOENDER ASSOCIATES INC. BALTIMORE, MD. 465-7777 SALISBURY, MD. 749-1286 WESTMINSTER, MD. 848-5588
PROJECT: HINES PROPERTY			
LOCATION: 5TH ELECT. DIST. HOWARD COUNTY, MARYLAND			
DATE 4/19/77	DES. BY: R.M.	DRAWN BY: W.N.	CHKD. BY: R.M.
SCALE: 1" = 30'	JOB NO. 7725	DRWG. NO.: 1 OF 5	Rudolph Maurer 4-19-77 DATE

SDP-77-85

REVISIONS				
ISSUE	BY & DATE	DESCRIPTION	CHECK	APPROVED & DATE



VICINITY MAP
SCALE: 1" = 1200'

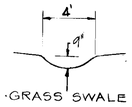


SECTION
"A" - "A"
SCALE: 1" = 6'

n = .035

TRIAL DEPTH = .15' ∴ A = 0.67 S.F.
WP = 4.95'
R = .135, $R^{2/3}$ = .26
S10 = 7.14% $S^{1/2}$ = .267
V = 2.95'/s

Q = AV
Q = 1.98 c.f.s.
Q10 1.40 c.f.s.



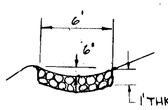
GRASS SWALE
SECTION
"B - B"
SCALE: 1" = 6'

n = .035

TRIAL DEPTH = .67' ∴ A = 1.05 S.F.
WP = 3.75'
R = .28, $R^{2/3}$ = .43
S10 = 5.41% $S^{1/2}$ = .23
V = 4.2'/s

Q = AV
Q = 4.41 c.f.s.
Q_{10} = 4.26 c.f.s.

Q_{10} = CIA
Q_{10} = (.8)(7.0)(.76)
Q_{10} = 4.26 c.f.s.



1' THK. MIN. 6" STONES OVER POLYFILTER "X"

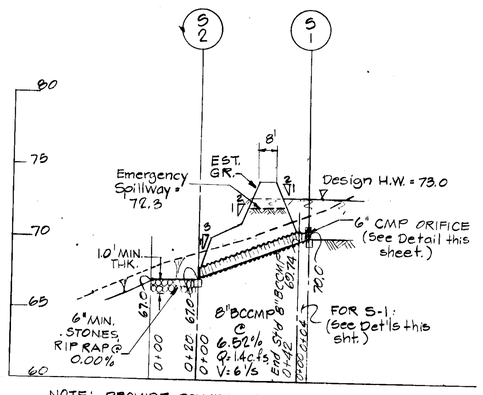
SECTION
"C - C"
SCALE: 1" = 6'

n = .030

TRAIL DEPTH = .50' ∴ A = .76 S.F.
WP = 3.05'
R = .15, $R^{2/3}$ = .28
S10 = 11.76% $S^{1/2}$ = .34
V = 4.72'/s

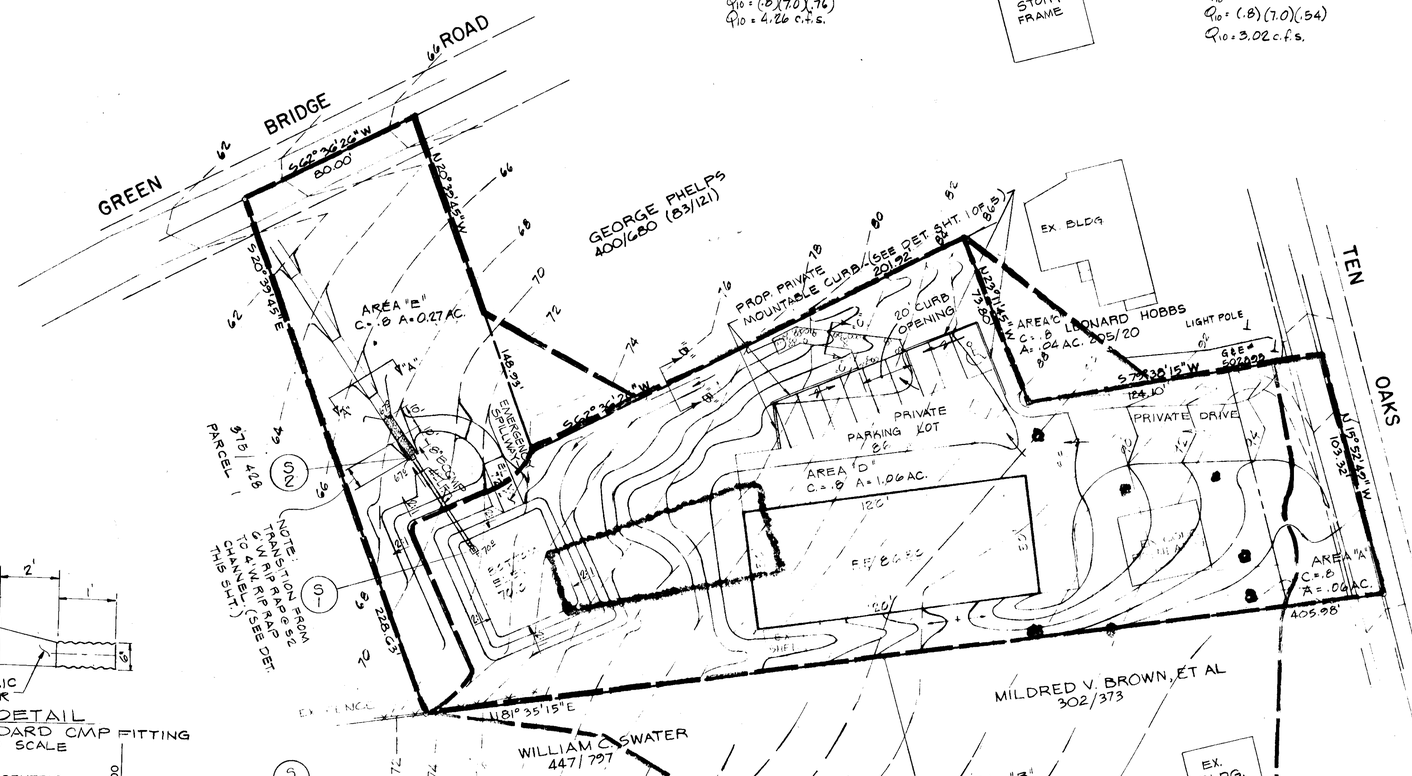
Q = AV
Q = 3.59 c.f.s.
Q_{10} = 3.02 c.f.s.

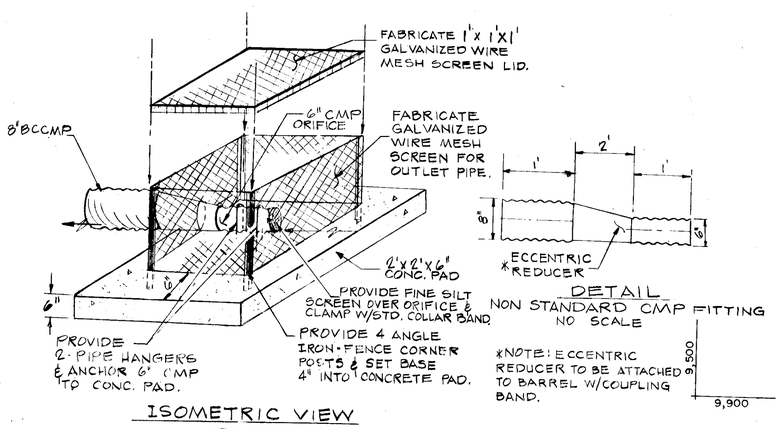
Q_{10} = CIA
Q_{10} = (.8)(7.0)(.54)
Q_{10} = 3.02 c.f.s.



NOTE: PROVIDE POLYFILTER X UNDER ALL RIP-RAP SHOWN ON PLAN.

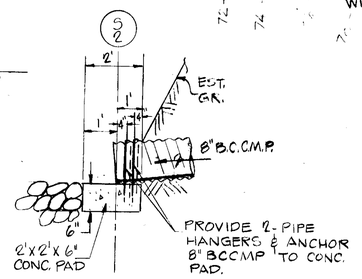
PROFILE
SCALE: HOR: 1" = 30'
VER: 1" = 5'



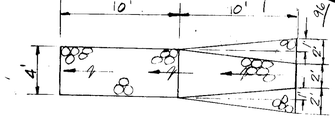


ISOMETRIC VIEW
S-1
NON STANDARD FABRICATION DETAIL OF DEBRIS SCREEN CAGE, ORIFICE & CONC. PAD CONSTRUCTION.
NO SCALE

DETAIL
NON STANDARD CMP FITTING
NO SCALE



S-2 DETAIL
NO SCALE



APRON DETAIL
@ S-2
SCALE: 1" = 6'

OWNER AND DEVELOPER
MR. RONALD HINES
7220 ROUTE 32
CLARKSVILLE, MARYLAND 21029

APPROVED
DIVISION OF LAND DEVELOPMENT
HOWARD COUNTY, MARYLAND
DATE 6-2-77

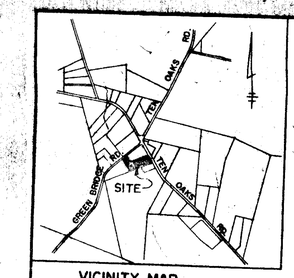
APPROVED: FOR PRIVATE WATER AND PRIVATE SEWERAGE SYSTEM
HOWARD COUNTY HEALTH DEPARTMENT
HEALTH OFFICER — DATE 7-27-77

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING
PLANNING DIRECTOR — DATE 8/4/77
(CHIEF) DIVISION OF LAND DEVELOPMENT — DATE 7-29-77

APPROVED: FOR STORM DRAINAGE SYSTEMS AND ROADS
DIRECTOR DEPARTMENT OF PUBLIC WORKS — DATE 8-2-77
CHIEF, BUREAU OF HIGHWAYS — DATE 8/2/77

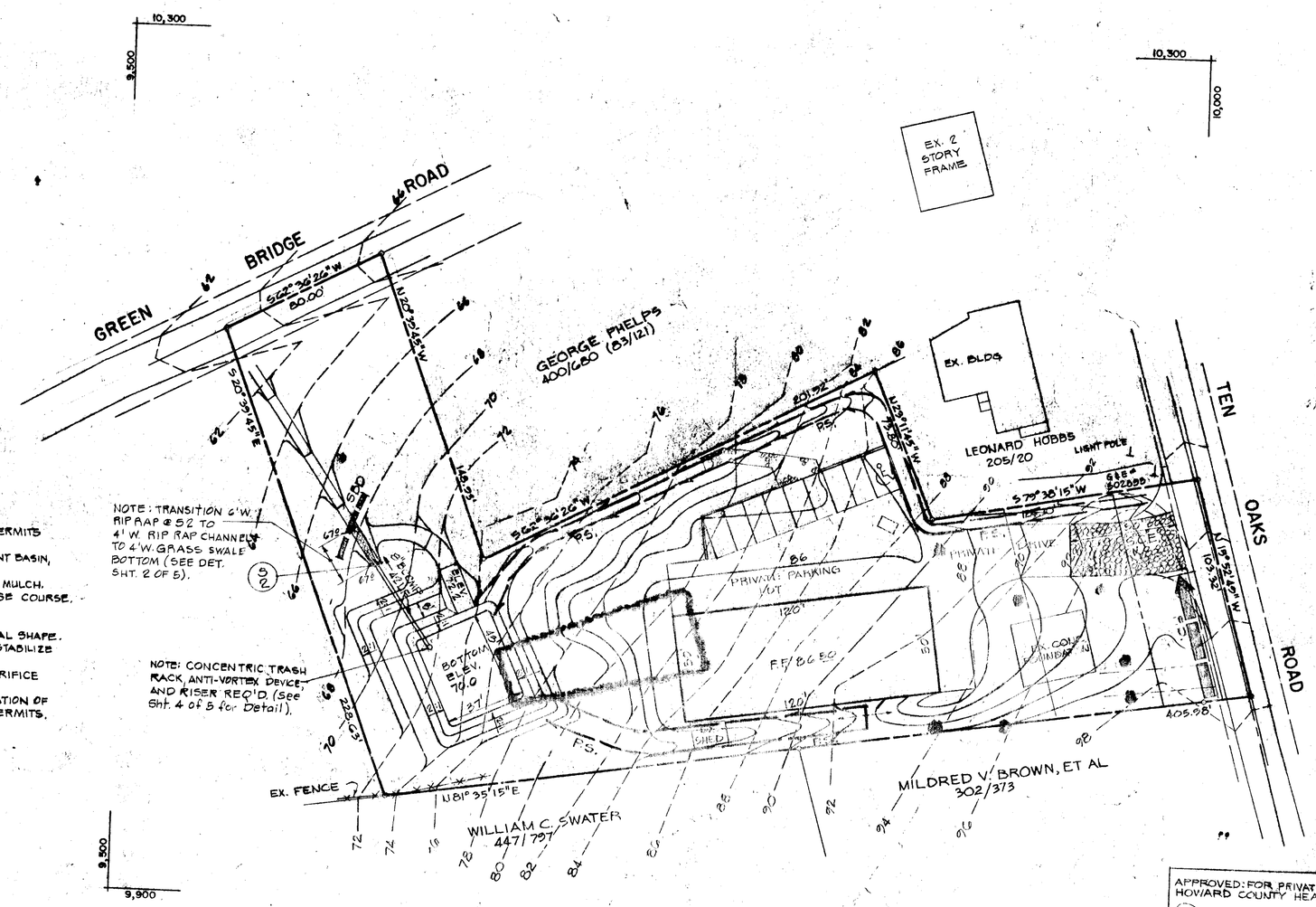
TITLE: DRAINAGE AREA MAP, PROFILES, SECTIONS & DETAILS			ENGINEERING PLANNING SURVEYING BY: BOENDER ASSOCIATES INC.
PROJECT: HINES PROPERTY			BALTIMORE, MD. 465-7777 SALISBURY, MD. 749-1296 WESTMINSTER, MD. 848-5588
LOCATION: 5TH ELECT DIST. HOWARD COUNTY, MARYLAND			
DATE: 4/19/77	DES. BY: W.N.	DRAWN BY: W.N.	CHKD. BY: R.V.
SCALE: AS SHOWN	JOB NO. 7728	DRWG. NO.: SHT 2 OF 5	Rudolph Maylor 4-19-77 DATE

SDP-77-85



VICINITY MAP
SCALE: 1" = 1200'

REVISIONS				
ISSUE	BY & DATE	DESCRIPTION	CHECK	APPROVED & DATE



NOTE: TRANSITION 6' W. RIP RAP @ S2 TO 4' W. RIP RAP CHANNEL TO 4' W. GRASS SWALE BOTTOM (SEE DET. SHT. 2 OF 5).

NOTE: CONCENTRIC TRASH RACK, ANTI-VORTEX DEVICE AND RISER REQ'D. (See Sht. 4 of 5 for Detail).

CONSTRUCTION SEQUENCE

1. APPLY FOR PERMIT.
2. NOTIFY HO. CO. BUREAU OF LICENSE INSPECTION AND PERMITS 24 HOURS IN ADVANCE PRIOR TO CONSTRUCTION.
3. CONSTRUCT PERIMETER DIKE, PERIMETER SWALES, SEDIMENT BASIN, AND STABILIZED CONSTRUCTION ENTRANCE.
4. STABILIZE ALL SEDIMENT CONTROL MEASURES W/SEED OR MULCH.
5. ROUGH GRADE SITE. STABILIZE DRIVE AND PARKING W/BASE COURSE.
6. CONSTRUCT BLDG. PAVEMENT DRIVEWAY AND PARKING.
7. FINE GRADE SITE. APPLY PERMANENT SEEDING.
8. CLEAN OUT SEDIMENT BASIN AND RESTORE IT TO ORIGINAL SHAPE. DISPOSE OF SEDIMENT IN CONTROLLED AREA. SEED AND STABILIZE MATERIAL.
9. REMOVE RISER ASSEMBLY. CONSTRUCT AND INSTALL ORIFICE ASSEMBLY.
10. REMOVE SEDIMENT CONTROL MEASURES AFTER NOTIFICATION OF HOWARD COUNTY BUREAU OF LICENSE INSPECTION AND PERMITS.

SITE ANALYSIS

TOTAL AREA OF SITE =	1.373	AC.
TOTAL AREA OF DISTURBED =	1.08	AC.
TOTAL AREA OF ROOFS & PAVEMENTS =	0.36	AC.
TOTAL AREA REVEGETATED =	0.72	AC.

APPROVED
DIVISION OF LAND DEVELOPMENT
HOWARD COUNTY, MARYLAND
DATE 6-2-77

APPROVED: FOR PRIVATE WATER AND PRIVATE SEWERAGE SYSTEM. HOWARD COUNTY HEALTH DEPARTMENT.

Joyce M. Boyd
COUNTY HEALTH OFFICER — 7-27-77 DATE

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING

J. H. Clawson Jr.
PLANNING DIRECTOR, Acting — 8/4/77 DATE

CHIEF, DIVISION OF LAND DEVELOPMENT — DATE

APPROVED: FOR STORM DRAINAGE SYSTEMS AND ROADS

DIRECTOR, DEPARTMENT OF PUBLIC WORKS — 8-2-77 DATE

Franville N. Weband
CHIEF, BUREAU OF HIGHWAYS — 8/2/77 DATE

REVIEWED FOR HOWARD S.C.D. AND MEETS TECHNICAL REQUIREMENTS.

Winstead Burditte
U.S. SOIL CONSERVATION SERVICE — 6-9-77 DATE

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

Robert W. Zichum
HOWARD SOIL CONSERVATION DISTRICT — 6-9-77 DATE

DEVELOPER'S CERTIFICATE

I CERTIFY THAT ALL DEVELOPMENT AND/OR CONSTRUCTION WILL BE ACCORDING TO THIS PLAN OF DEVELOPMENT AND PLAN FOR EROSION AND SEDIMENT CONTROL AND I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT OR THEIR AUTHORIZED AGENTS AS ARE DEEMED NECESSARY. DEVIATION FROM THIS PLAN WILL NOT BE MADE UNLESS AUTHORIZED BY THE HOWARD SOIL CONSERVATION DISTRICT.

Ronald L. Hines
DEVELOPER — 4/18/77 DATE

ENGINEER'S CERTIFICATE

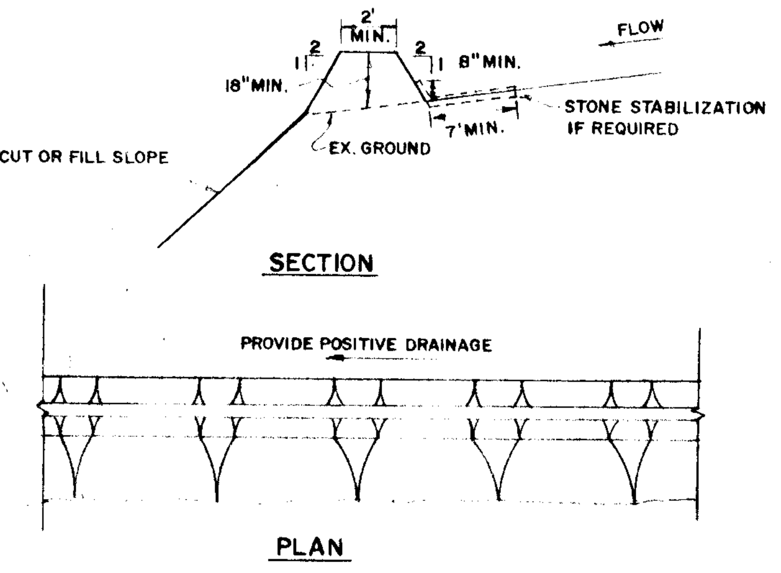
I CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON PERSONAL KNOWLEDGE OF THE SITE CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS BY THE HOWARD SOIL CONSERVATION DISTRICT.

Robert Mangle
ENGINEER — DATE

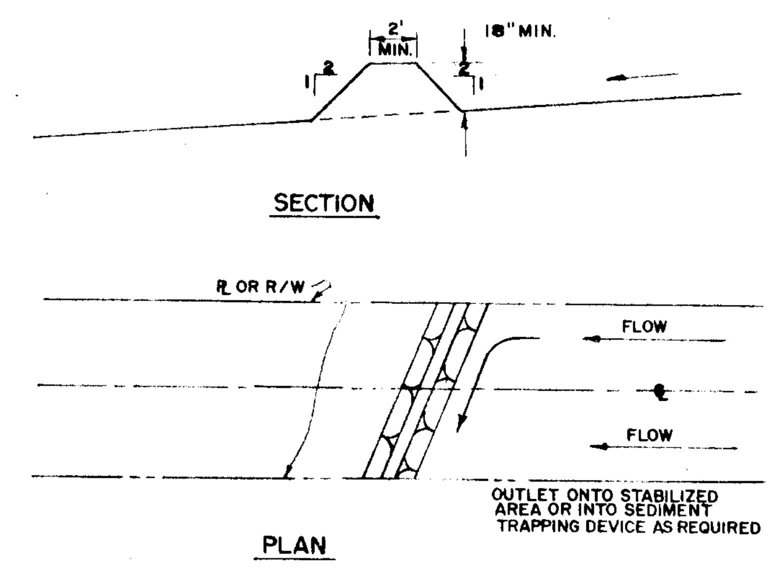
OWNER AND DEVELOPER
MR. RONALD HINES
7220 ROUTE 32
CLARKSVILLE, MARYLAND 21029

TITLE: SEDIMENT CONTROL PLAN				ENGINEERING PLANNING SURVEYING BY BOENDER ASSOCIATES INC. BALTIMORE, MD. 466-7777 SALISBURY, MD. 749-1288 WESTMINSTER, MD. 848-5528
PROJECT: HINES PROPERTY				
LOCATION: 5TH ELECT. DIST. HOWARD COUNTY, MARYLAND				
DATE: 4/19/77	DES. BY: R.M.	DRAWN BY: W.N.	CHKD. BY: R.M.	
SCALE: 1" = 30'	JOB NO. 7725	DRWG. NO.: 3 OF 5	Robert Mangle 4-19-77 DATE	

SDP-77-85



DIVERSION DIKE
NO SCALE



INTERCEPTOR DIKE
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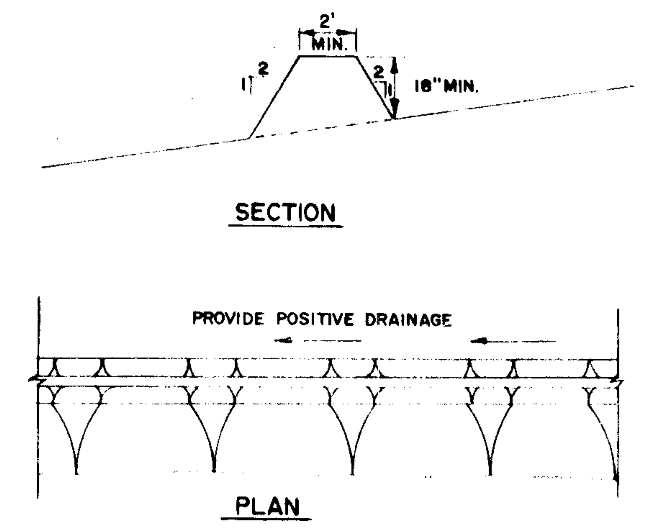

PERIMETER DIKE
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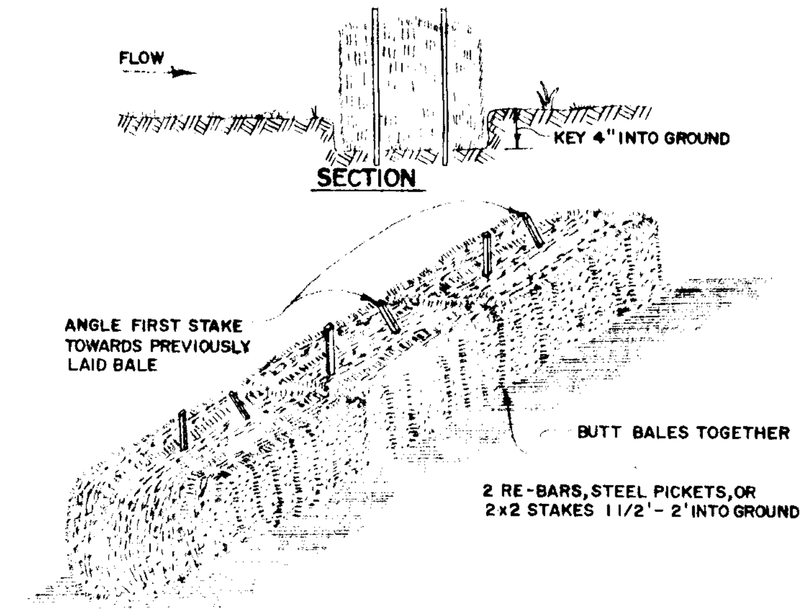


STRAW BALE DIKE
NO SCALE

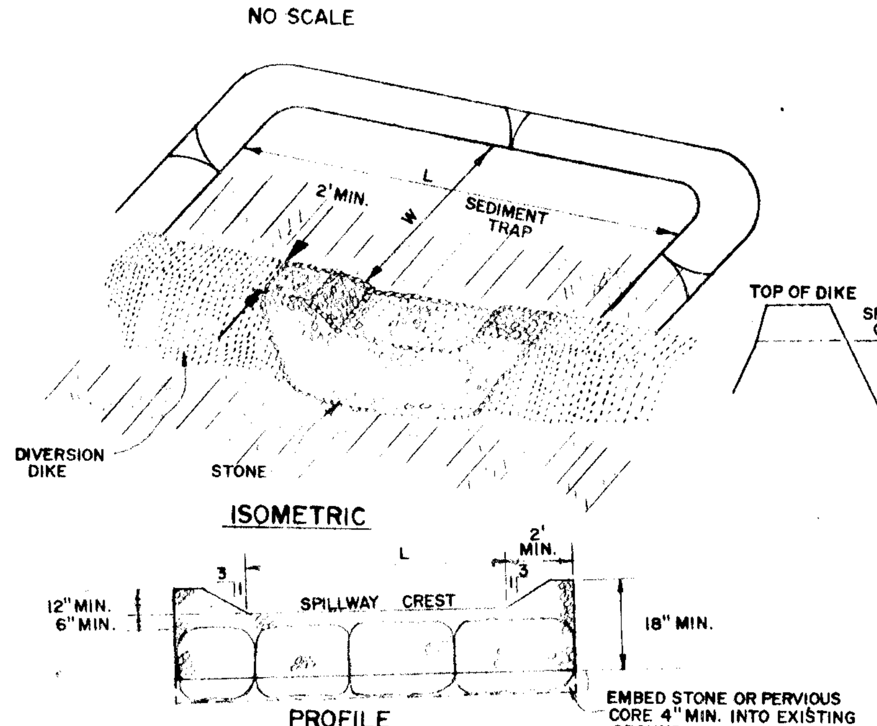
SEDIMENT CONTROL NOTES

1. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH "STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL IN DEVELOPING AREAS." PREPARED BY THE U.S.D.A. SOIL CONSERVATION SERVICE.
2. APPLY FOR GRADING PERMIT.
3. NOTIFY THE BUREAU OF LICENSE INSPECTIONS AND PERMITS 24 HRS. PRIOR TO GRADING OPERATIONS.
4. CONSTRUCTION SHALL ADHERE TO THE CONSTRUCTION SEQUENCE.
5. CUT AND FILL SLOPES SHALL BE 2:1 MAXIMUM.
6. ELEVATIONS MARKED THUS (X) SHALL BE FINISHED GRADE.
7. ANY EXCESS MATERIAL SHALL BE STOCKPILED IN A CLEARED LOCATION ON SITE WHICH IS PROTECTED BY SEDIMENT CONTROL STRUCTURE(S). MAXIMUM FILL SLOPE SHALL BE 3:1. STOCKPILED MATERIAL SHALL BE STABILIZED ACCORDING TO SEEDING SPECIFICATIONS BELOW.
8. SEDIMENT CONTROL STRUCTURES SHALL BE REMOVED ONLY WITH PERMISSION OF BUREAU OF LICENSE INSPECTIONS AND PERMITS.
9. STABILIZATION MEASURES

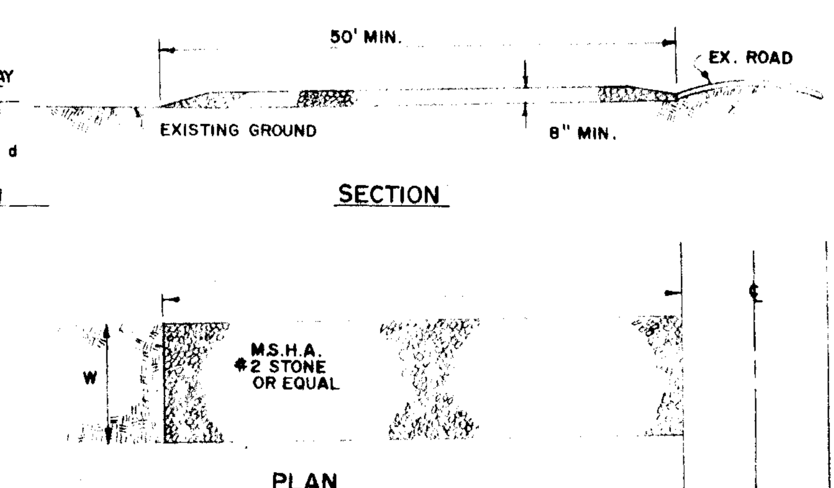
TEMPORARY STABILIZATION:
APPLY: 2000 LBS./AC. OR 46 LBS. OF PULVERIZED DOLOMIC LIMESTONE. 500 LBS./AC. OR 11.5 LBS./1000 SQ.FT. OF 10-10-10 FERTILIZER. PLANT WITH RYEGRASS AT 40 LBS./AC. MULCH ALL DISTURBED AREAS IMMEDIATELY AFTER GRADING.

PERMANENT STABILIZATION:
APPLY: 2000 LBS./AC. OF PULVERIZED DOLOMIC LIMESTONE.
500 LBS./AC. OF 10-10-10 FERTILIZER.
SEED: 85 LBS./AC. OF KENTUCKY 31 TALL FESCUE.
40 LBS./AC. OF KENTUCKY BLUE GRASS.
25 LBS./AC. OF ANNUAL RYEGRASS.
NOTE: SEEDING MAY BE DONE BETWEEN MARCH 1 - MAY 1, OR AUG. 1 - OCT. - 1 ONLY. MULCH ALL DISTURBED AREAS IMMEDIATELY AFTER GRADING.
MULCH: 2 TONS/AC. OF UNWEATHERED WHEATSTRAW. TIE MULCH DOWN WITH 480 GAL./AC. OF LIQUID ASPHALT.
ON 2:1 SLOPES: SUBSTITUTE THE FOLLOWING SEEDING MIXTURE FOR THOSE LISTED ABOVE; CROWN VETCH 15 LBS./AC. KY 31 40 LBS/AC. CROWN VETCH SEED TO BE SCARIFIED AND INOCULATED.

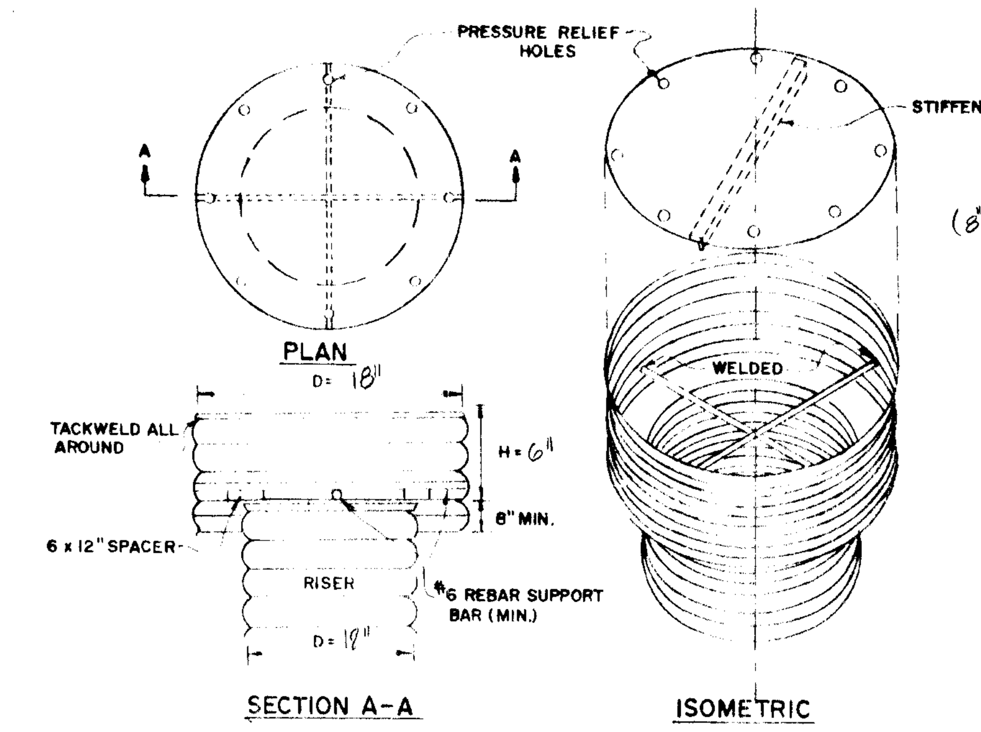
REVISIONS				
ISSUE	BY & DATE	DESCRIPTION	CHECK	APPROVED & DATE



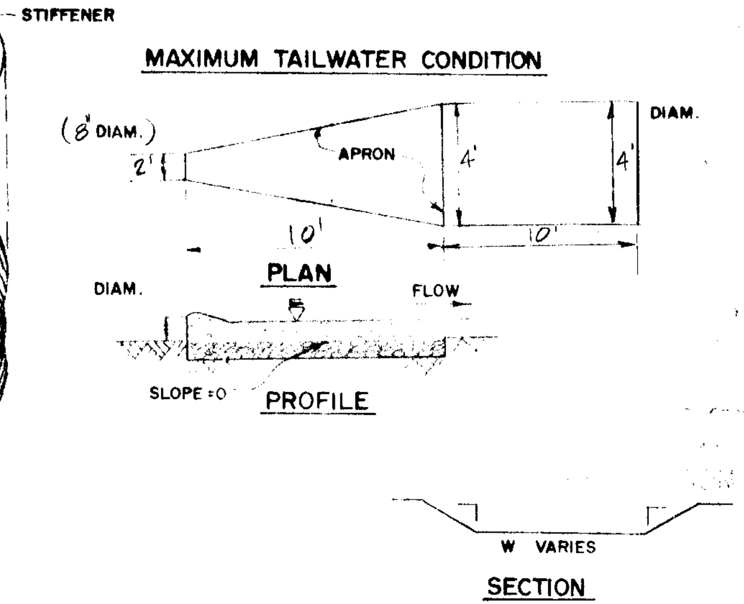
STONE OUTLET AND SEDIMENT TRAP
NO SCALE



STABILIZED CONSTRUCTION ENTRANCE
NO SCALE



CONCENTRIC TRASH RACK AND ANTI-VORTEX DEVICE
NO SCALE



OUTLET PROTECTION
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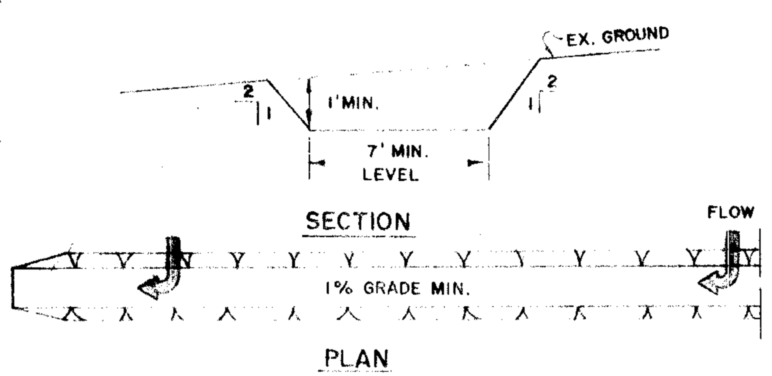
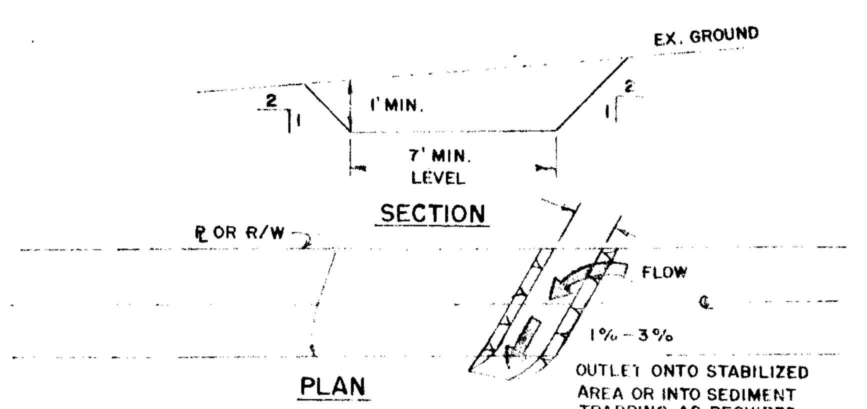
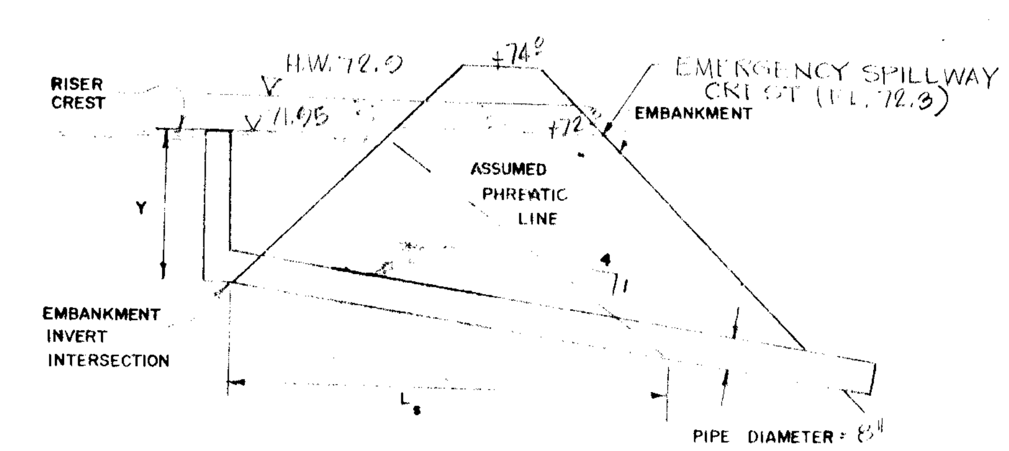


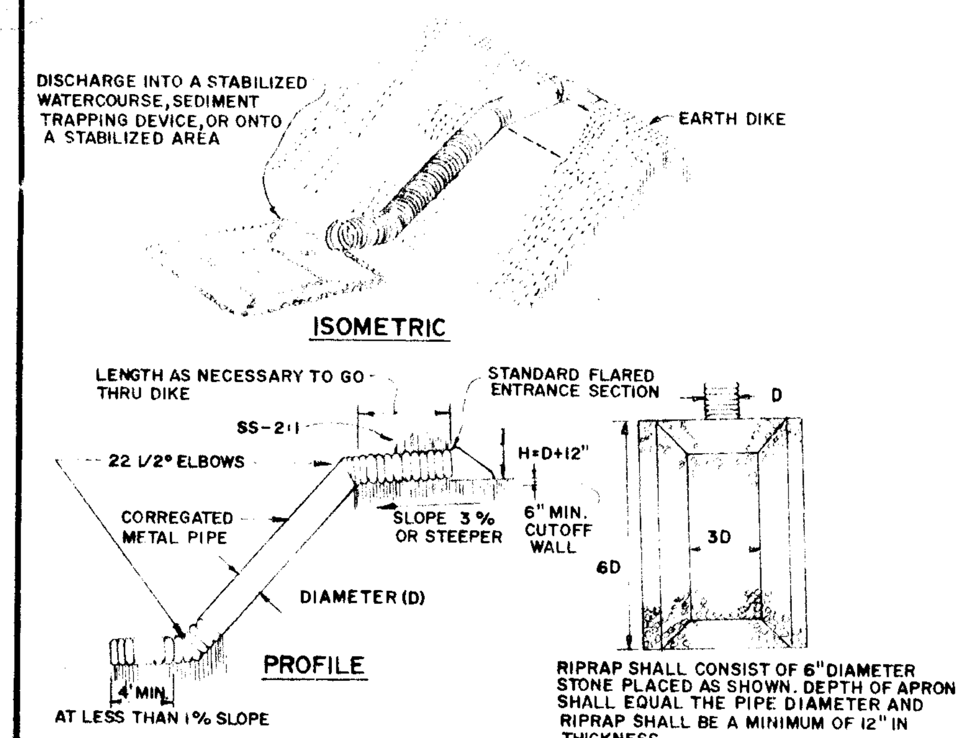
PERIMETER SWALE
NO SCALE



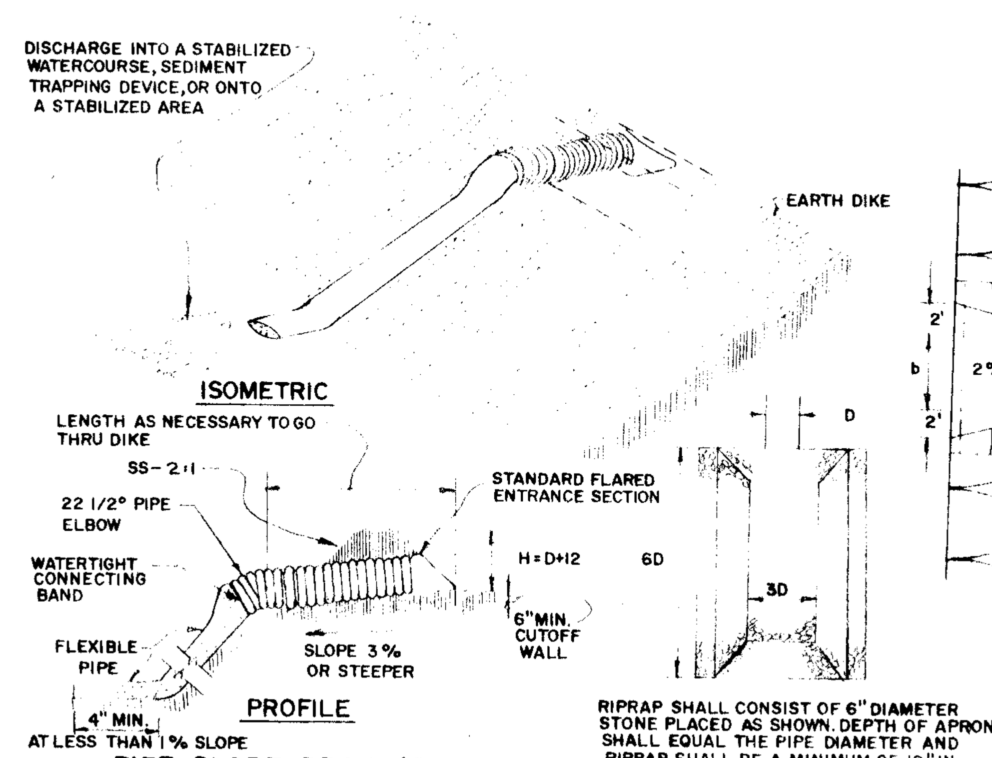
INTERCEPTOR SWALE
NO SCALE



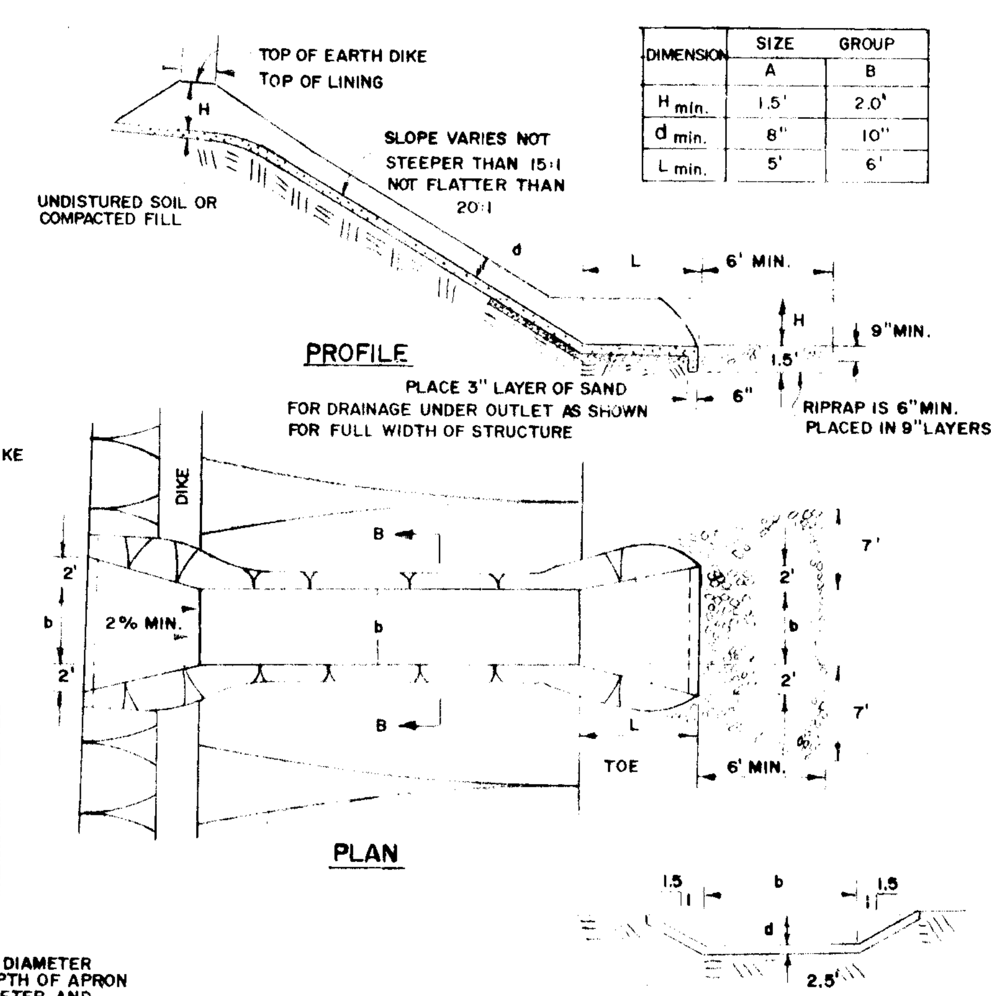
6-2-77



PIPE SLOPE DRAIN (RIGID)
NO SCALE



PIPE SLOPE DRAIN (FLEXIBLE)
NO SCALE



DIMENSION	SIZE GROUP	
	A	B
$H_{min.}$	1.5'	2.0'
$d_{min.}$	8"	10"
$L_{min.}$	5'	6'

PAVED CHUTE OR FLUME
NO SCALE

STANDARD SYMBOLS

DIVERSION DIKE	DD 2/
INTERCEPTOR DIKE	ID 2/
PERIMETER DIKE	PD 2/
STRAW BALE DIKE	SBD 2/
INTERCEPTOR SWALE	IS
PERIMETER SWALE	PS
STABILIZED CONSTRUCTION ENTRANCE	SCE
STONE OUTLET STRUCTURE	SOS L=
GRADE STABILIZATION STRUCTURE	
CHUTE OR FLUME	GSS-1 A-
RIGID PIPE SLOPE DRAIN	GSS-2 PSD-
FLEXIBLE PIPE SLOPE DRAIN	GSS-3 PSD-
DIVERSION	
GRASSED WATERWAY	GW
LEVEL SPREADER	L=
SUBSURFACE DRAIN	

NOTES:
1. ARROWS POINT DOWNSLOPE OR TO THE OUTLET.
2. DIKE AND DIVERSION SYMBOLS, SHALL HAVE A CROSS MARK TO CLEARLY SHOW WHERE THE STRUCTURE BEGINS AND ENDS.

APPROVED: FOR PRIVATE WATER AND PRIVATE SEWAGE SYSTEM. HOWARD COUNTY HEALTH DEPARTMENT.
Joyceln Boyden — COUNTY HEALTH OFFICER — 7-27-77 DATE

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING.
J.W. Cavanaugh — PLANNING DIRECTOR, Acting — 8/4/77 DATE
CHIEF, DIVISION OF LAND DEVELOPMENT — DATE

APPROVED: FOR STORM DRAINAGE SYSTEMS AND ROADS
P.J. Regan Jr. — DIRECTOR, DEPARTMENT OF PUBLIC WORKS — 8-2-77 DATE
Granville W. Wehland — CHIEF, BUREAU OF HIGHWAYS — 8/1/77 DATE

REVIEWED FOR HOWARD S.C.D. AND MEETS TECHNICAL REQUIREMENTS.
Winstead Burdette — U.S. SOIL CONSERVATION SERVICE — 6-9-77 DATE

THIS DEVELOPMENT IS APPROVED SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.
Robert W. Ziehm — HOWARD SOIL CONSERVATION DISTRICT — 6-9-77 DATE

OWNER AND DEVELOPER
MR. RONALD HINES
7220 ROUTE 32
CLARKSVILLE, MARYLAND 21029

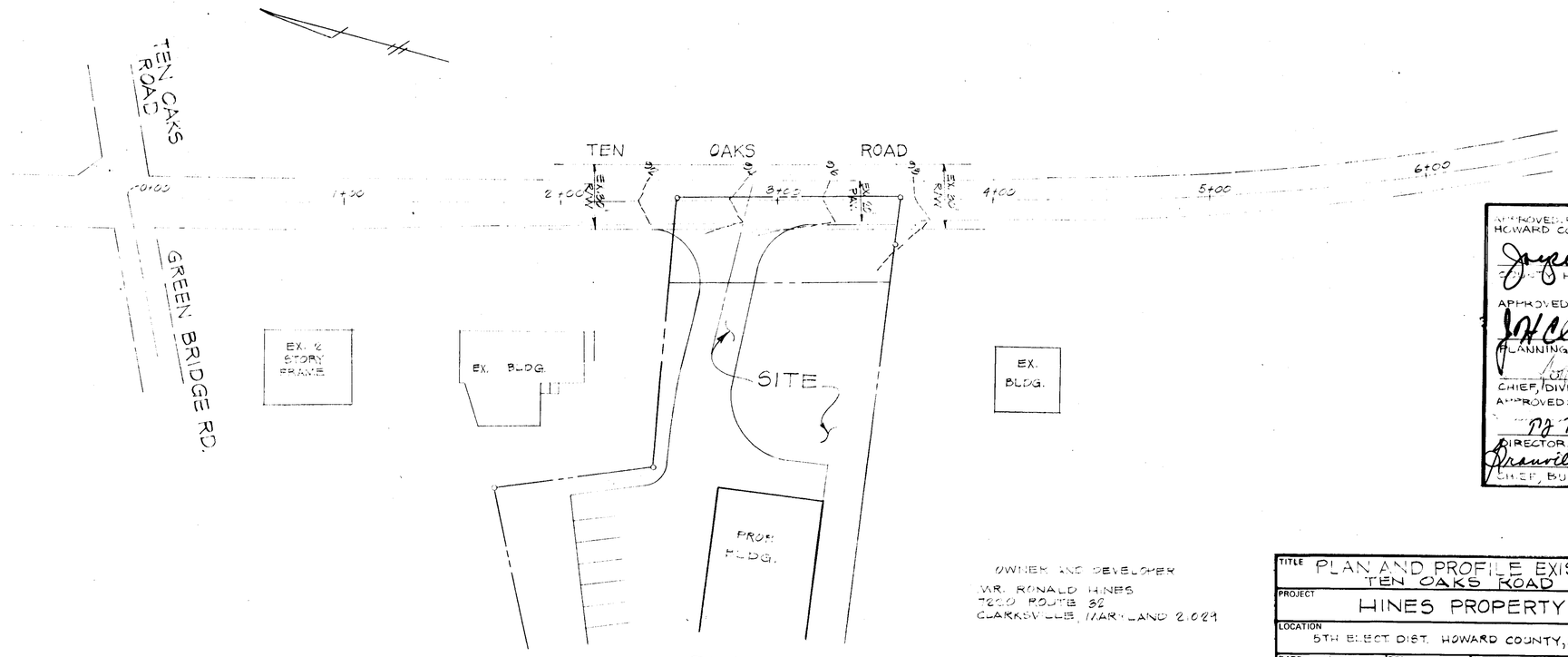
TITLE: **SEDIMENT CONTROL DETAILS**			
PROJECT: HINES PROPERTY			
LOCATION: 5TH ELECT. DISTRICT HOWARD COUNTY, MARYLAND			
DATE: 4/15/77	DES. BY: R.M.	DRAWN BY:	CHKD. BY: R.M.
SCALE: AS SHOWN	JOB NO. 7725	DRWG. NO.: 4 OF 5	

Rodolph May Jr. 4-19-77 DATE

ENGINEERING PLANNING SURVEYING BY
BOENDER ASSOCIATES INC.
BALTIMORE, MD. 465-7777
SALISBURY, MD. 749-1286
WESTMINSTER, MD. 848-5588

SDP-77-85

APPROVED
DIVISION OF LAND DEVELOPMENT
HOWARD COUNTY, MARYLAND
DATE 6-2-77



PLAN
SCALE: 1" = 30'

OWNER AND DEVELOPER
MR. RONALD HINES
7220 ROUTE 32
CLARKSVILLE, MARYLAND 21029

APPROVED FOR PRIVATE WATER AND PRIVATE SEWERAGE SYSTEM.
HOWARD COUNTY HEALTH DEPARTMENT
Joyce M. Brylus — 7-27-77
COUNTY HEALTH OFFICER — DATE

APPROVED HOWARD COUNTY OFFICE OF PLANNING AND ZONING
J H Clawson Jr. — 8/4/77
PLANNING DIRECTOR, Acting — DATE
[signature] — 7-29-77
CHIEF, DIVISION OF LAND DEVELOPMENT — DATE

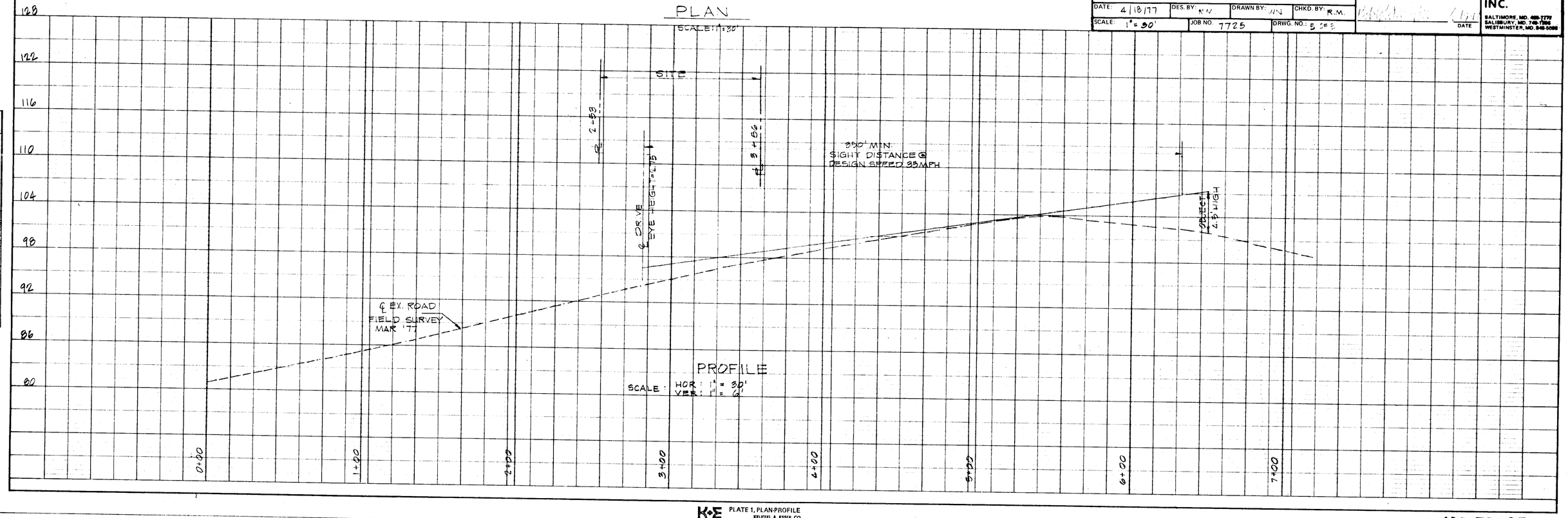
APPROVED: FOR STORM DRAINAGE SYSTEMS AND ROADS
P J Regan Jr. — 8-2-77
DIRECTOR, DEPARTMENT OF PUBLIC WORKS — DATE
Granville W. Wehland — 8/2/77
CHIEF, BUREAU OF HIGHWAYS — DATE

TITLE	PLAN AND PROFILE EXISTING TEN OAKS ROAD
PROJECT	HINES PROPERTY
LOCATION	5TH ELECT. DIST. HOWARD COUNTY, MARYLAND
DATE: 4/18/77	DES. BY: R.M. / DRAWN BY: WN / CHKD. BY: R.M.
SCALE: 1" = 30'	JOB NO. 7725 / DRWG. NO.: 5 OF 8

STATE OF MARYLAND — REGISTERED PROFESSIONAL ENGINEER — NO. 4700

DATE

ENGINEERING
PLANNING
SURVEYING
BY
BOENDER ASSOCIATES INC.
BALTIMORE, MD. 465-7777
SALISBURY, MD. 749-1396
WESTMINSTER, MD. 848-5088



PROFILE
SCALE: HOR: 1" = 30'
VER: 1" = 6'

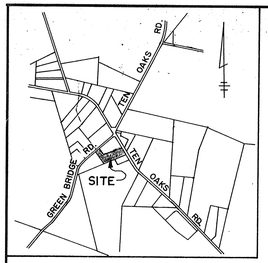
PLAN — NOTE BOOK No. — SURVEYED — PLOTTED — ALIGNMENT CHECKED — RT. OF WAY CHECKED — BY — DATE

PROFILE — NOTE BOOK No. — SURVEYED — PLOTTED — GRADES CHECKED — B. M.'s NOTED — STRUCTURE NOTATIONS CHECKED — BY — DATE

K+E PLATE 1, PLAN-PROFILE
KEUFFEL & ESSER CO.
48 7008 MADE IN U.S.A.

SDP-77-85

REVISIONS				
ISSUE	BY & DATE	DESCRIPTION	CHECK	APPROVED & DATE
1	FSH 01-17-05	REMOVED STORMWATER FACILITY; INSTALL GRASS SWALES; ADJUST PARKING AND BUILDING.	ZYF	01.17.05

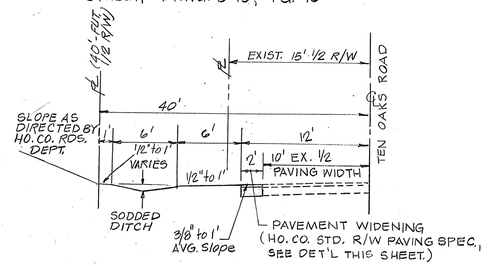


VICINITY MAP
SCALE: 1" = 1200'

TYPICAL HALF SECTION DETAIL
TEN OAKS ROAD

NO SCALE

SEE TYPICAL HOWARD COUNTY RESIDENTIAL AND COLLECTOR STREET, DRWG. D-15, PG. 70



BIT. CONC. SURFACE	1"	BAND C-3
BITUMINOUS CONCRETE BASE	4"	BAND C-2 OR G-3

CLEARING AND GRADING	ARTICLE C-1
SUBGRADE	ARTICLE C-2
BASE COURSE	ARTICLE C-31 OR C-33
SURFACE	ARTICLE C-31

HOWARD CO. STD. DRWG. D-13 PAGE 68

1. BASE WILL BE PRIMED IN ACCORDANCE WITH C-30-3 AS PROVIDED IN THE HOWARD CO. ROAD CONSTRUCTION CODE AND STANDARD SPECIFICATIONS.
2. TACK COAT IS TO BE IN ACCORDANCE WITH C-31-4 AS PROVIDED IN THE HOWARD CO. ROAD CONSTRUCTION CODE AND STANDARD SPECIFICATIONS.
3. ALL PAVING MATERIAL TO BE IN ACCORDANCE WITH HOWARD CO. ROAD CONSTRUCTION CODE AND STANDARD SPECIFICATIONS.

ONSITE PAVING SPEC.

NO SCALE

BIT. CONC. SURFACE	1 1/2"	BAND C-3
BIT. CONC. BINDER	5"	(GRAVEL MIX)
CRUSHER RUN BASE	6"	

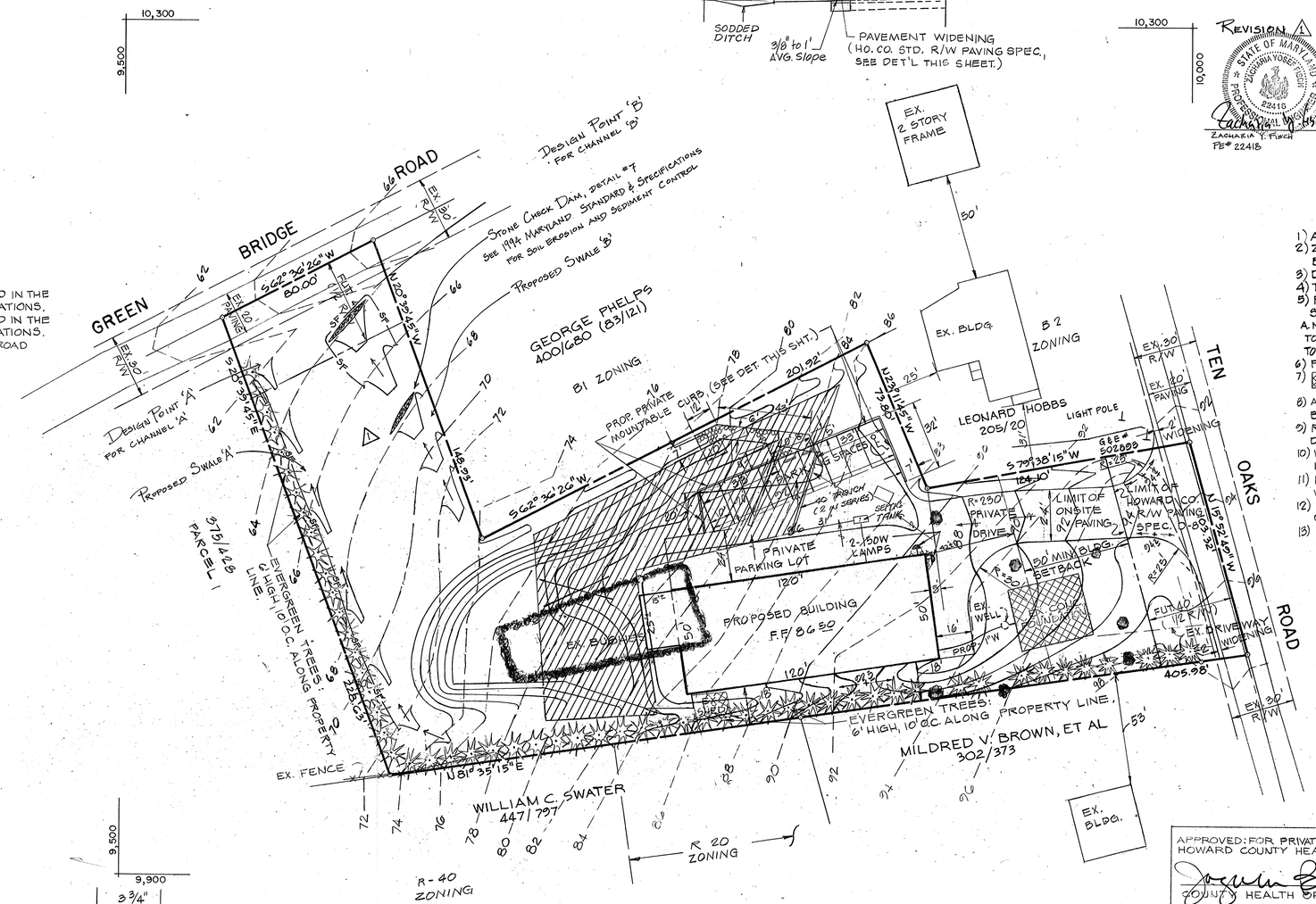
HOWARD CO. STD. DRWG. D-8 PAGE 63

1. BASE WILL BE PRIMED IN ACCORDANCE WITH C-30-3 AS PROVIDED IN THE HOWARD CO. ROAD CONSTRUCTION CODE AND STANDARDS.
2. TACK COAT IS TO BE IN ACCORDANCE WITH C-31-4 AS PROVIDED IN THE HOWARD CO. ROAD CONSTRUCTION CODE AND STANDARD SPECIFICATIONS.
3. ALL PAVING MATERIAL TO BE IN ACCORDANCE WITH HOWARD CO. ROAD CONSTRUCTION CODE AND STANDARD SPECIFICATIONS.

BASE COURSE	ARTICLE C-25
BINDER COURSE	ARTICLE C-31 OR C-33
SURFACE COURSE	ARTICLE C-31

HOWARD COUNTY R/W PAVING SPEC.

NO SCALE



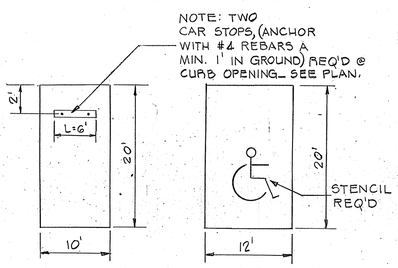
REVISION 1

1/17/05
ZACHARIA Y. FISCH
PE# 22418
DATE

GENERAL NOTES

1) AREA OF PARCEL = 1.873 ACRES
2) ZONING OF PROPERTY = B-2, ZONING BOARD CASE: ZB 665
3) DEED REFERENCE: CMP 825/125
4) TAX MAP: 28, PART OF PARCEL 2
5) PARKING TABULATION:
   SERVICE BLDG. PARKING SPACES REQUIRED
   A. NO. OF EMPLOYEES: 16
   TOTAL PARKING SPACES REQUIRED: 8
   TOTAL PARKING SPACES PROVIDED: 9
6) FLOOR SPACE TABULATION: 6000 SF
7) ▨ DENOTES EXISTING STRUCTURE/S TO BE REMOVED.
8) ANY DAMAGE TO PUBLIC R/W OR PAVING SHALL BE CORRECTED AT DEVELOPERS EXPENSE.
9) REMOVE EXISTING DRYWELL SLAB, BACKFILL DRYWELL.
10) VERTICAL AND HORIZONTAL DATUM IS ASSUMED.
11) PRIVATE WATER AND PRIVATE SEWAGE WILL BE USED WITHIN THIS DEVELOPMENT.
12) EXTERIOR LIGHTING SHALL NOT PROJECT DIRECTLY ONTO ADJACENT RESIDENTIAL PROPERTIES.
13) INTENDED USAGE OF BLDG: BLDG. SUPPLIES STORAGE

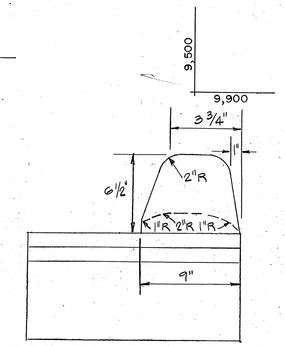
APPROVED
DIVISION OF LAND DEVELOPMENT
HOWARD COUNTY, MARYLAND
DATE 6-2-77



PERPENDICULAR HANDICAPPED

TYPICAL PARKING DETAILS

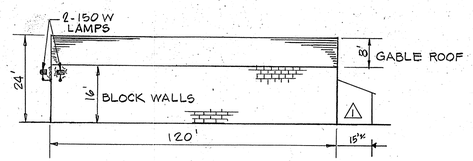
NO SCALE



PROPOSED PRIVATE CURB MOUNTABLE CURB DETAIL

NO SCALE

SEE TYPICAL HO. CO. STD. DRWG. D-39, PG. 94



SCHEMATIC BUILDING PROFILE

NO SCALE

OWNER AND DEVELOPER
MR. RONALD HINES
7220 ROUTE 32
CLARKSVILLE, MARYLAND 21029

APPROVED: FOR PRIVATE WATER AND PRIVATE SEWERAGE SYSTEM.
HOWARD COUNTY HEALTH DEPARTMENT.

COUNTY HEALTH OFFICER	7-27-77 DATE
APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING	
PLANNING DIRECTOR, Acting	8/4/77 DATE
CHIEF, DIVISION OF LAND DEVELOPMENT	7-29-77 DATE
APPROVED FOR: STORM DRAINAGE SYSTEMS AND ROADS	
DIRECTOR, DEPARTMENT OF PUBLIC WORKS	8-2-77 DATE
CHIEF, BUREAU OF HIGHWAYS	8/2/77 DATE

TITLE: SITE PLAN				
PROJECT: HINES PROPERTY				
LOCATION: 5TH ELECT. DIST. HOWARD COUNTY, MARYLAND				
DATE: 4/10/77	DES. BY: R.M.	DRAWN BY: W.N.	CHKD. BY: R.M.	
SCALE: 1" = 30'	JOB NO. 7725	DRWG. NO.: 1 OF 5		

4-19-77 DATE

ENGINEERING PLANNING SURVEYING BY
BOENDER ASSOCIATES INC.
BALTIMORE, MD. 465-7777
SALISBURY, MD. 749-1286
WESTMINSTER, MD. 848-5588

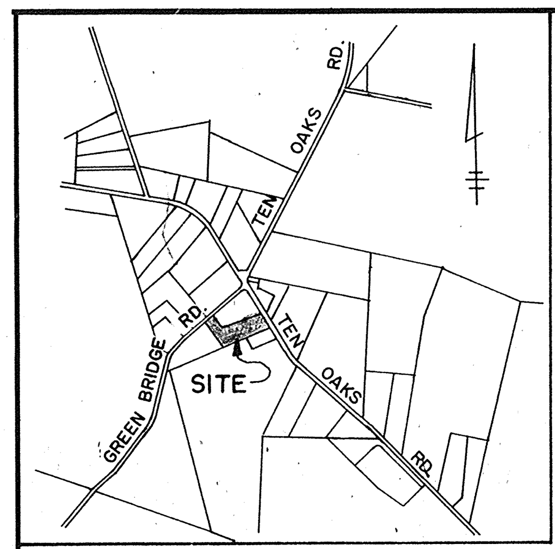
SDP-77-85

ISSUE	BY & DATE	DESCRIPTION	CHECK	APPROVED & DATE
1	FSH 01-17-05	Removed Storm Water Facility; Install Grass Swales; Adjust Parking and Building	ZYF	01.17.05

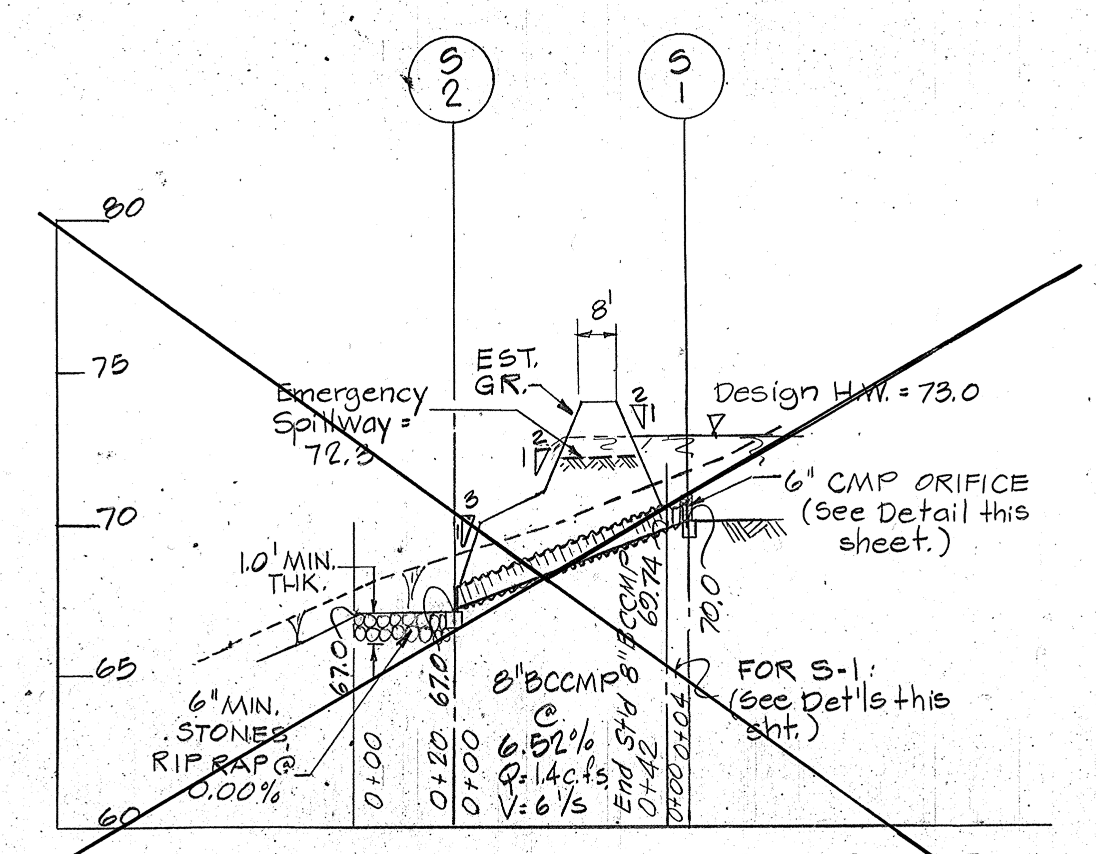
REVISIONS

STATE OF MARYLAND – ZACHARIA YOSEF FISCH – 22418 – PROFESSIONAL ENGINEER

Zacharia Y. Fisch 01-17-05
ZACHARIA Y. FISCH PE# 22418 DATE

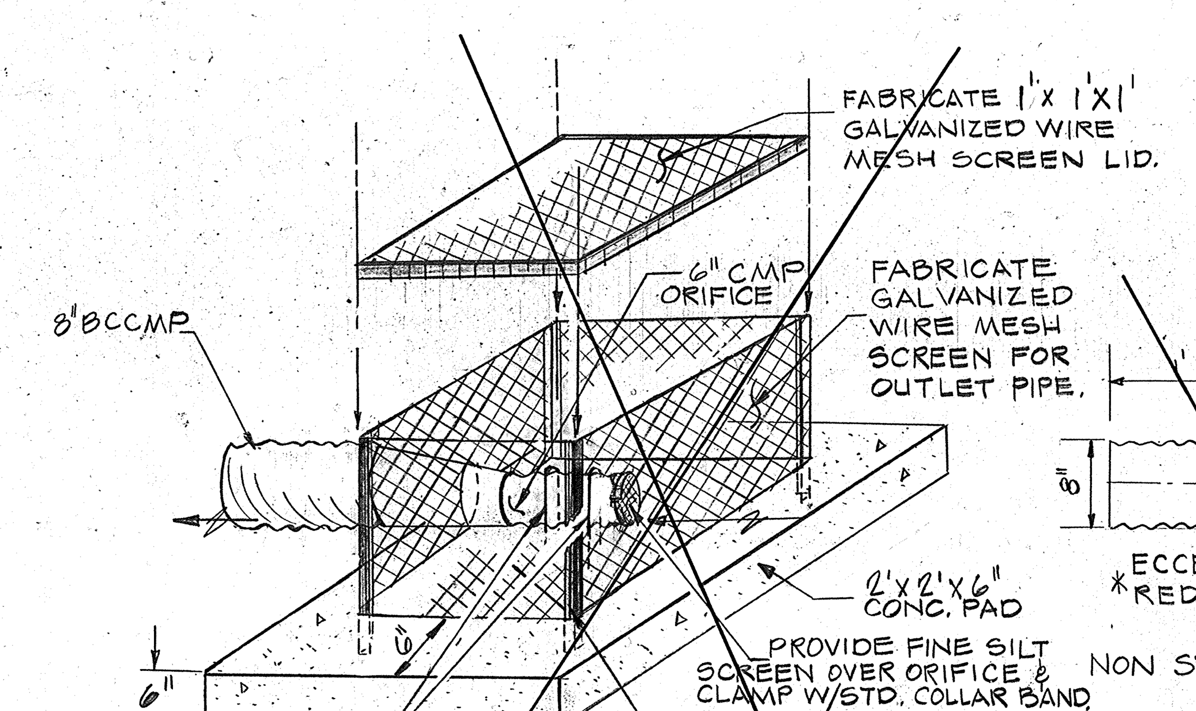


VICINITY MAP
SCALE: 1" = 1200'

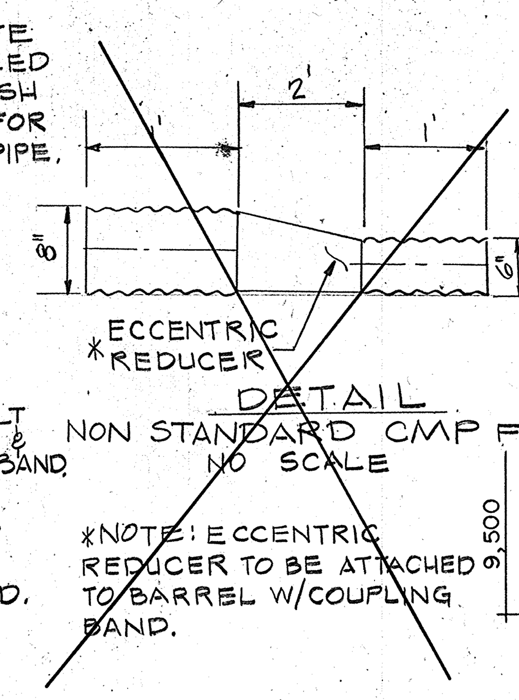


NOTE: PROVIDE POLYFILTER X UNDER ALL RIP-RAP SHOWN ON PLAN.

PROFILE
SCALE: HOR: 1" = 30' VER: 1" = 5'

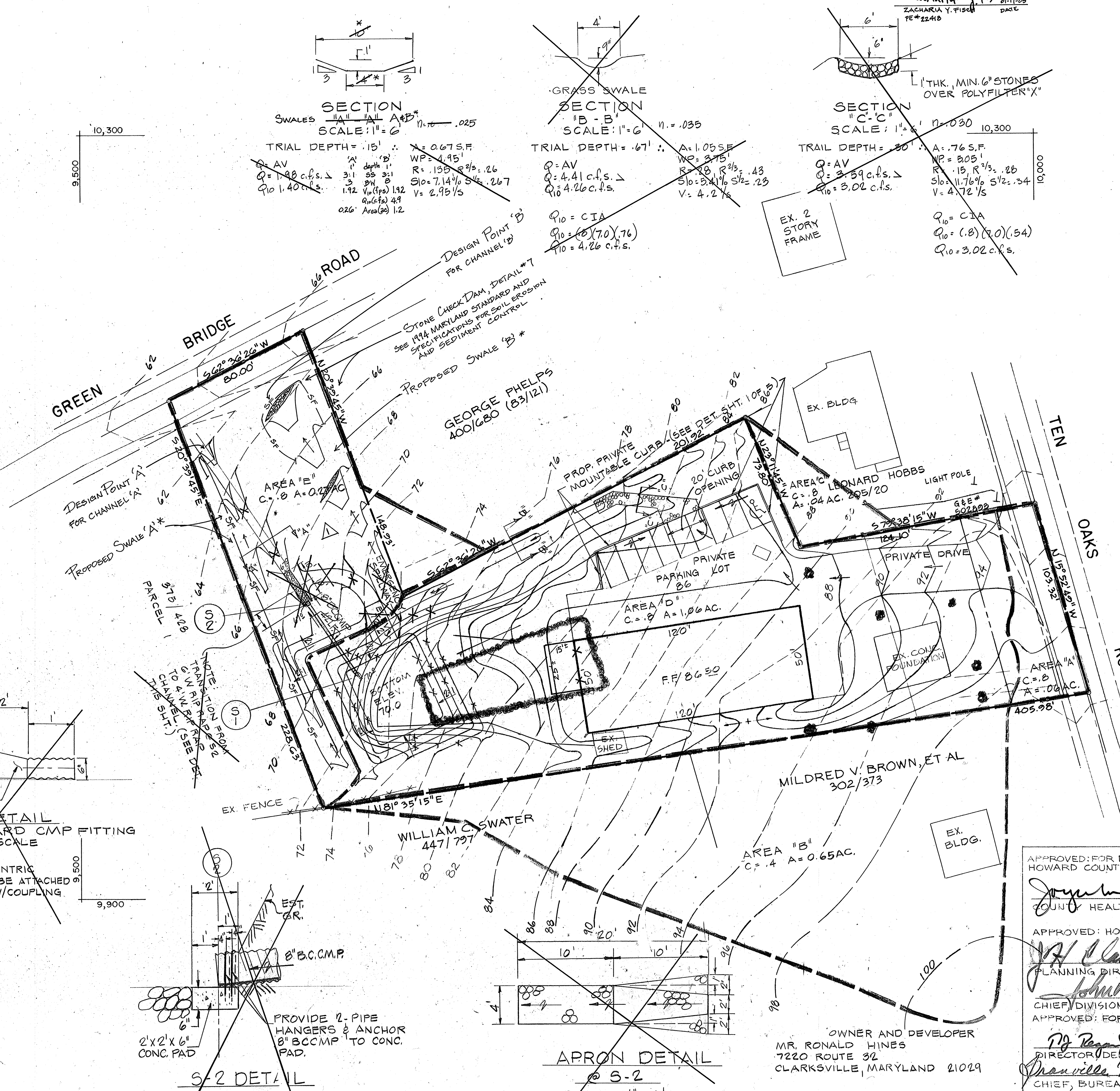


ISOMETRIC VIEW
S-1
NON STANDARD FABRICATION DETAIL OF DEBRIS SCREEN CAGE, ORIFICE & CONC. PAD CONSTRUCTION.
NO SCALE



DETAIL
NON STANDARD CMP FITTING
NO SCALE

*NOTE: ECCENTRIC REDUCER TO BE ATTACHED TO BARREL W/COUPLING BAND.



OWNER AND DEVELOPER
MR. RONALD HINES
7220 ROUTE 32
CLARKSVILLE, MARYLAND 21029

APPROVED
DIVISION OF LAND DEVELOPMENT
HOWARD COUNTY, MARYLAND
DATE 6-2-77

APPROVED: FOR PRIVATE WATER AND PRIVATE SEWERAGE SYSTEM.
HOWARD COUNTY HEALTH DEPARTMENT.

Joseph Boylan — COUNTY HEALTH OFFICER	7-27-77 DATE

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING

J.H. Clawson — PLANNING DIRECTOR, Acting	8/4/77 DATE
John W. Musselman — CHIEF, DIVISION OF LAND DEVELOPMENT	7-29-77 DATE

APPROVED: FOR STORM DRAINAGE SYSTEMS AND ROADS

DIRECTOR, DEPARTMENT OF PUBLIC WORKS	8-2-77 DATE
CHIEF, BUREAU OF HIGHWAYS	8/2/77 DATE

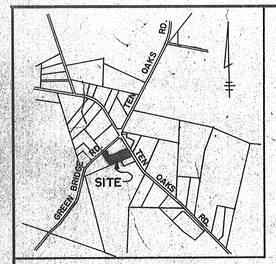
TITLE: DRAINAGE AREA MAP, PROFILES, SECTIONS & DETAILS			
PROJECT: HINES PROPERTY			
LOCATION: 5TH ELECT. DIST. HOWARD COUNTY, MARYLAND			
DATE: 4/19/77	DES. BY: W.N.	DRAWN BY: W.N.	CHKD. BY: R.M.
SCALE: AS SHOWN	JOB NO. 7725	DRWG. NO.: SHT 2 OF 5	

STATE OF MARYLAND – RUDOLPH L. MAY, JR. – NO. 8700 – REGISTERED PROFESSIONAL ENGINEER

Rudolph May Jr. 4-19-77 DATE

ENGINEERING PLANNING SURVEYING BY
BOENDER ASSOCIATES INC.
BALTIMORE, MD. 465-7777
SALISBURY, MD. 749-1286
WESTMINSTER, MD. 848-5588

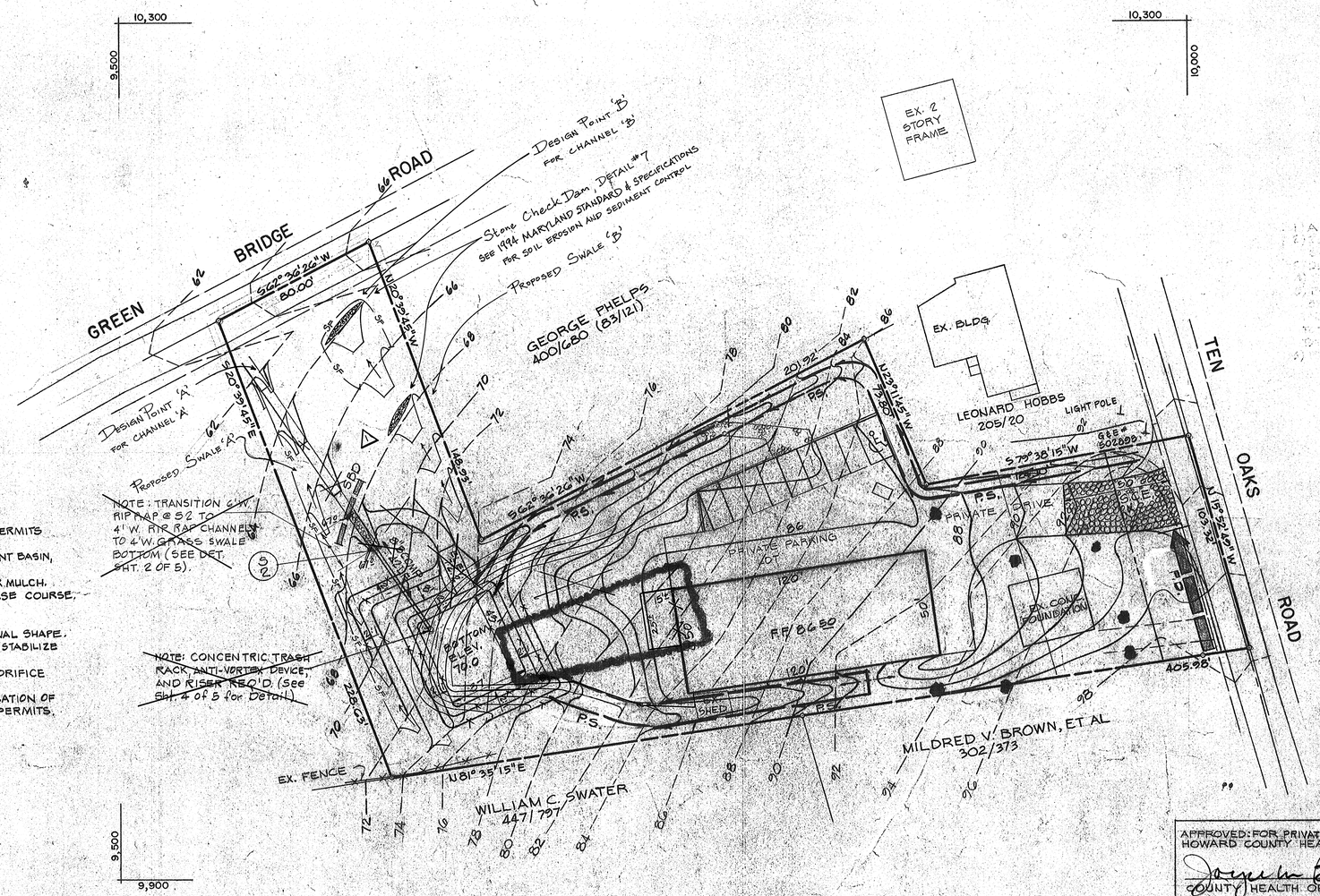
SDP-77-85



VICINITY MAP
SCALE: 1" = 1200'

REVISIONS				
ISSUE	BY & DATE	DESCRIPTION	CHECK	APPROVED & DATE
1	FSH 01-17-05	REMOVED STORMWATER FACILITY; INSTALL GRASS SWALES; ADJUST PARKING AND BUILDING.	ZYF	01.17.05

STATE OF MARYLAND
ZACHARIA YOSEF FISCH
22410
PROFESSIONAL ENGINEER
ZACHARIA Y. FISCH 01-17-05
ZACHARIA Y. FISCH DATE
PE # 22410



NOTE: TRANSITION 6' W. RIP RAP @ S2 TO 4' W. RIP RAP CHANNEL TO 4' W. GRASS SWALE BOTTOM (SEE DET. SHT. 2 OF 5).

NOTE: CONCENTRIC TRASH RACK, ANTI-VORTEX DEVICE, AND RISER REQ'D. (See Sht. 4 of 5 for Detail)

CONSTRUCTION SEQUENCE

1. APPLY FOR PERMIT.
2. NOTIFY HO. CO. BUREAU OF LICENSE INSPECTION AND PERMITS 24 HOURS IN ADVANCE PRIOR TO CONSTRUCTION.
3. CONSTRUCT PERIMETER DIKE, PERIMETER SWALES, SEDIMENT BASIN, AND STABILIZED CONSTRUCTION ENTRANCE.
4. STABILIZE ALL SEDIMENT CONTROL MEASURES W/SEED OR MULCH.
5. ROUGH GRADE SITE. STABILIZE DRIVE AND PARKING W/BASE COURSE.
6. CONSTRUCT BLDG. PAVEMENT DRIVEWAY AND PARKING.
7. FINE GRADE SITE. APPLY PERMANENT SEEDING.
8. CLEAN OUT SEDIMENT BASIN AND RESTORE IT TO ORIGINAL SHAPE. DISPOSE OF SEDIMENT IN CONTROLLED AREA. SEED AND STABILIZE MATERIAL.
9. REMOVE RISER ASSEMBLY. CONSTRUCT AND INSTALL ORIFICE ASSEMBLY.
10. REMOVE SEDIMENT CONTROL MEASURES AFTER NOTIFICATION OF HOWARD COUNTY BUREAU OF LICENSE INSPECTION AND PERMITS.

SITE ANALYSIS

TOTAL AREA OF SITE =	1.378	AC.
TOTAL AREA OF DISTURBED =	1.08	AC.
TOTAL AREA OF ROOFS & PAVEMENTS =	0.36	AC.
TOTAL AREA REVEGETATED =	0.72	AC.

OWNER AND DEVELOPER
MR. RONALD HINES
7220 ROUTE 32
CLARKSVILLE, MARYLAND 21029

APPROVED
DIVISION OF LAND DEVELOPMENT
HOWARD COUNTY, MARYLAND
DATE 6-2-77

APPROVED: FOR PRIVATE WATER AND PRIVATE SEWERAGE SYSTEM HOWARD COUNTY HEALTH DEPARTMENT.

COUNTY HEALTH OFFICER — DATE 7-22-77

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING

PLANNING DIRECTOR, Acting — DATE 8/4/77

CHIEF, DIVISION OF LAND DEVELOPMENT — DATE 7-29-77

APPROVED: FOR STORM DRAINAGE SYSTEMS AND ROADS

DIRECTOR, DEPARTMENT OF PUBLIC WORKS — DATE 8-2-77

CHIEF, BUREAU OF HIGHWAYS — DATE 8/2/77

REVIEWED FOR HOWARD S.C.D. AND MEETS TECHNICAL REQUIREMENTS.

U.S. SOIL CONSERVATION SERVICE — DATE 6-9-77

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

HOWARD SOIL CONSERVATION DISTRICT — DATE 6-9-77

DEVELOPER'S CERTIFICATE

I CERTIFY THAT ALL DEVELOPMENT AND/OR CONSTRUCTION WILL BE ACCORDING TO THIS PLAN OF DEVELOPMENT AND PLAN FOR EROSION AND SEDIMENT CONTROL AND I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT OR THEIR AUTHORIZED AGENTS AS ARE DEEMED NECESSARY. DEVIATION FROM THIS PLAN WILL NOT BE MADE UNLESS AUTHORIZED BY THE HOWARD SOIL CONSERVATION DISTRICT.

DEVELOPER — DATE 4/18/77

ENGINEER'S CERTIFICATE

I CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON PERSONAL KNOWLEDGE OF THE SITE CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS BY THE HOWARD SOIL CONSERVATION DISTRICT.

ENGINEER — DATE 6-6-77

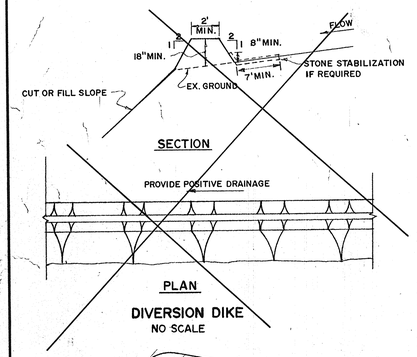
TITLE: SEDIMENT CONTROL PLAN			
PROJECT: HINES PROPERTY			
LOCATION: 5TH ELECT DIST. HOWARD COUNTY, MARYLAND			
DATE: 4/19/77	DES. BY: R.M.	DRAWN BY: W.N.	CHKD. BY: R.M.
SCALE: 1" = 30'	JOB NO. 7725	DRWG. NO.: 3 OF 5	

STATE OF MARYLAND — REGISTERED PROFESSIONAL ENGINEER

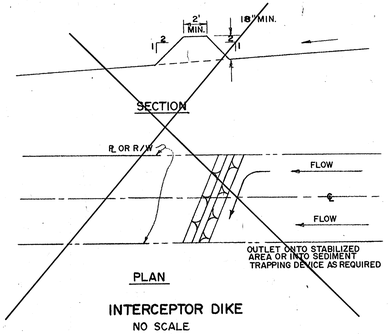
Rudolph Mary Jr. 4-19-77 DATE

ENGINEERING PLANNING SURVEYING BY
BOENDER ASSOCIATES INC.
BALTIMORE, MD. 465-7777
SALISBURY, MD. 749-1286
WESTMINSTER, MD. 848-5688

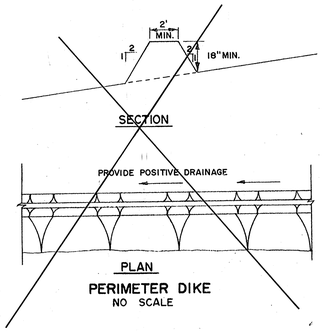
SDP-77-85



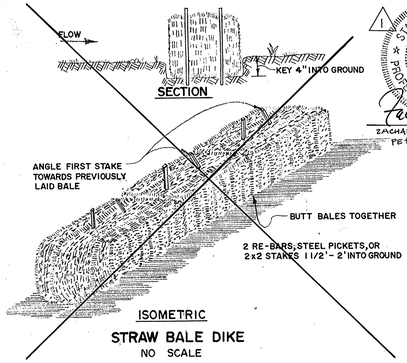
DIVERSION DIKE
NO SCALE



INTERCEPTOR DIKE
NO SCALE



PERIMETER DIKE
NO SCALE



STRAW BALE DIKE
NO SCALE

STATE OF MARYLAND
ZACHARIA Y. FISCH
22415
PROFESSIONAL ENGINEER
Zacharia Y. Fisch 01-17-05
ZACHARIA Y. FISCH DATE
PE # 22415

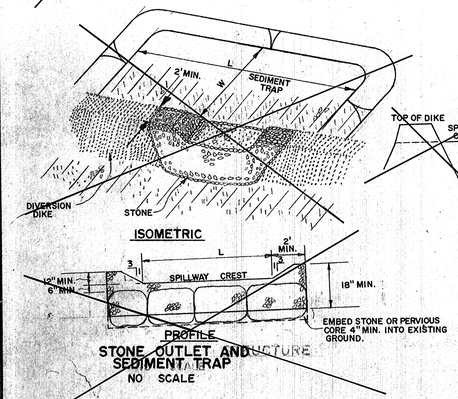
REVISIONS				
ISSUE	BY & DATE	DESCRIPTION	CHECK	APPROVED & DATE
1	FSH 01/17/2005	REMOVE STORMWATER FACILITY; INSTALL GRASS SWALES; ADJUST PARKING AND BUILDING.	ZYF	01.17.05

SEDIMENT CONTROL NOTES

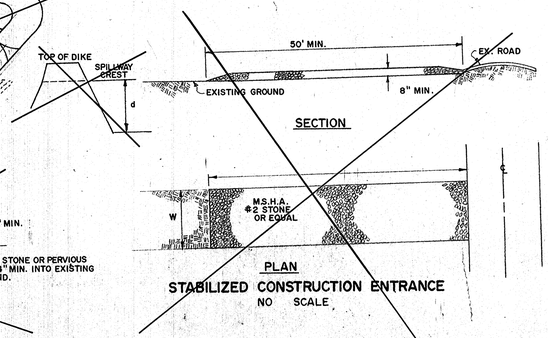
1. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH "STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL IN DEVELOPING AREAS." PREPARED BY THE U.S.D.A. SOIL CONSERVATION SERVICE.
2. APPLY FOR GRADING PERMIT.
3. NOTIFY THE BUREAU OF LICENSE INSPECTIONS AND PERMITS 24 HRS. PRIOR TO GRADING OPERATIONS.
4. CONSTRUCTION SHALL ADHERE TO THE CONSTRUCTION SEQUENCE.
5. CUT AND FILL SLOPES SHALL BE 2:1 MAXIMUM.
6. ELEVATIONS MARKED THUS (X) SHALL BE FINISHED GRADE.
7. ANY EXCESS MATERIAL SHALL BE STOCKPILED IN A CLEARED LOCATION ON SITE WHICH IS PROTECTED BY SEDIMENT CONTROL STRUCTURE(S). MAXIMUM FILL SLOPE SHALL BE 3:1. STOCKPILED MATERIAL SHALL BE STABILIZED ACCORDING TO SEEDING SPECIFICATIONS BELOW.
8. SEDIMENT CONTROL STRUCTURES SHALL BE REMOVED ONLY WITH PERMISSION OF BUREAU OF LICENSE INSPECTIONS AND PERMITS.
9. STABILIZATION MEASURES

TEMPORARY STABILIZATION:
APPLY: 2000 LBS./AC. OR 46 LBS. OF PULVERIZED DOLOMIC LIMESTONE. 500 LBS./AC. OR 11.5 LBS./1000 SQ. FT. OF 10-10-10 FERTILIZER. PLANT WITH RYEGRASS AT 40 LBS./AC. MULCH ALL DISTURBED AREAS IMMEDIATELY AFTER GRADING.

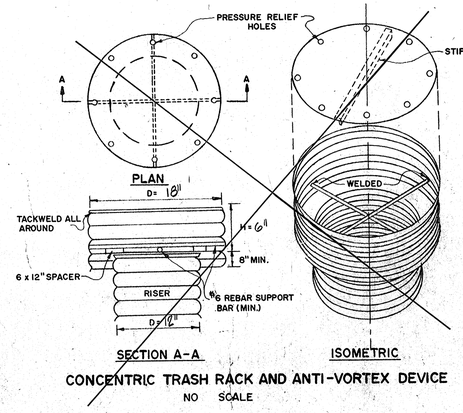
PERMANENT STABILIZATION:
APPLY: 2000 LBS./AC. OF PULVERIZED DOLOMIC LIMESTONE.
500 LBS./AC. OF 10-10-10 FERTILIZER.
SEED: 85 LBS./AC. OF KENTUCKY 31 TALL FESCUE.
40 LBS./AC. OF KENTUCKY BLUE GRASS.
25 LBS./AC. OF ANNUAL RYEGRASS.
NOTE: SEEDING MAY BE DONE BETWEEN MARCH 1 - MAY 1, OR AUG. 1 - OCT. - 1 ONLY. MULCH ALL DISTURBED AREAS IMMEDIATELY AFTER GRADING.
MULCH: 2 TONS/AC. OF UNWEATHERED WHEATSTRAW. TIE MULCH DOWN WITH 480 GAL./AC. OF LIQUID ASPHALT.
ON 2:1 SLOPES: SUBSTITUTE THE FOLLOWING SEEDING MIXTURE FOR THOSE LISTED ABOVE; CROWN VETCH 15 LBS./AC. KY 31 40 LBS/AC. CROWN VETCH SEED TO BE SCARIFIED AND INOCULATED.



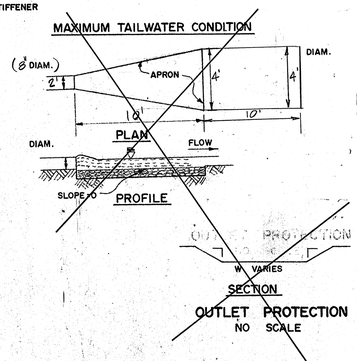
STONE OUTLET AND SEDIMENT TRAP
NO SCALE



STABILIZED CONSTRUCTION ENTRANCE
NO SCALE

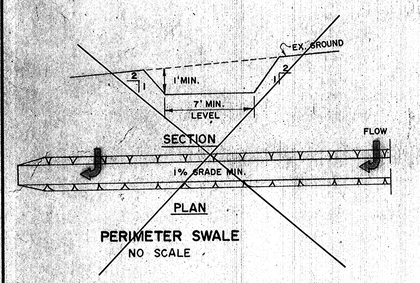


CONCENTRIC TRASH RACK AND ANTI-VORTEX DEVICE
NO SCALE

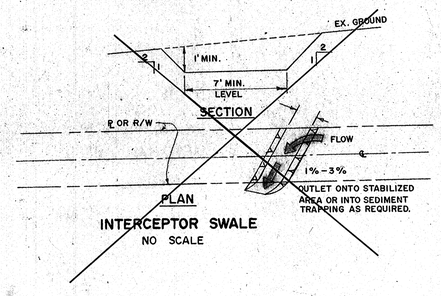


OUTLET PROTECTION
NO SCALE

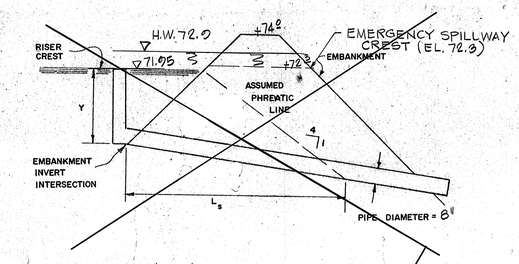
APPROVED
DIVISION OF LAND DEVELOPMENT
HOWARD COUNTY, MARYLAND
DATE 6-2-77

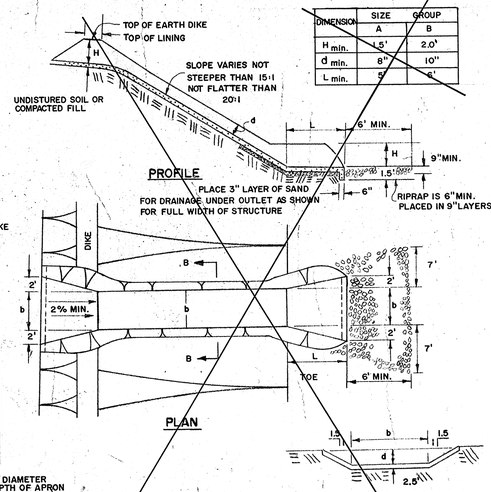


PERIMETER SWALE
NO SCALE



INTERCEPTOR SWALE
NO SCALE





DIMENSION	SIZE A	GROUP B
H min.	1.5'	2.0'
d min.	8"	10"
L min.	5'	6'

PAVED CHUTE OR FLUME
NO SCALE

STANDARD SYMBOLS

DIVERSION DIKE	DD 2/
INTERCEPTOR DIKE	ID 2/
PERIMETER DIKE	PD 2/
STRAW BALE DIKE	SBD 2/
INTERCEPTOR SWALE	IS
PERIMETER SWALE	PS
STABILIZED CONSTRUCTION ENTRANCE	SCE
STONE OUTLET STRUCTURE	SOS L=
GRADE STABILIZATION STRUCTURE	GSS-1 A-
CHUTE OR FLUME	GSS-2 PSD-
RIGID PIPE SLOPE DRAIN	GSS-3 PSD-
FLEXIBLE PIPE SLOPE DRAIN	
DIVERSION	GW
GRASSED WATERWAY	L=
LEVEL SPREADER	
SUBSURFACE DRAIN	

NOTES:
1. ARROWS POINT DOWNSLOPE OR TO THE OUTLET.
2. DIKE AND DIVERSION SYMBOLS SHALL HAVE A CROSS MARK TO CLEARLY SHOW WHERE THE STRUCTURE BEGINS AND ENDS.

APPROVED: FOR PRIVATE WATER AND PRIVATE SEWAGE SYSTEM.
HOWARD COUNTY HEALTH DEPARTMENT.
Joyce M. Boyer — 7-27-77
COUNTY HEALTH OFFICER — DATE

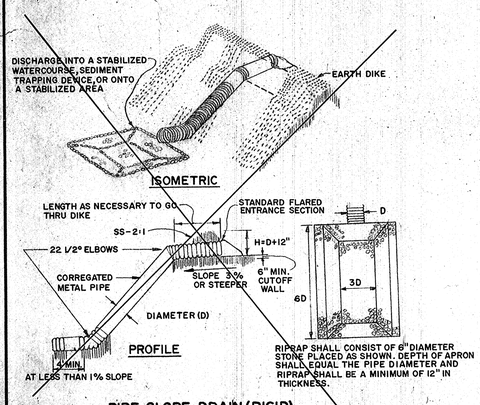
APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING.
J. H. Clement, Acting — 8/4/77
PLANNING DIRECTOR — DATE
John W. Wiedeman — 7-29-77
CHIEF, DIVISION OF LAND DEVELOPMENT — DATE

APPROVED: FOR STORM DRAINAGE SYSTEMS AND ROADS
P. J. Rego — 8-2-77
DIRECTOR, DEPARTMENT OF PUBLIC WORKS — DATE
Granville M. Trebeard — 8/4/77
CHIEF, BUREAU OF HIGHWAYS — DATE

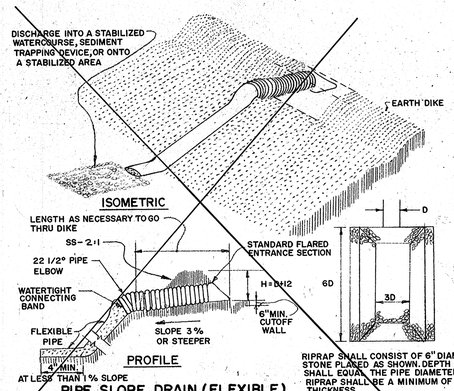
REVIEWED FOR HOWARD S.C.D. AND MEETS TECHNICAL REQUIREMENTS.
Winston Burdette — 6-9-77
U.S. SOIL CONSERVATION SERVICE — DATE

THIS DEVELOPMENT IS APPROVED SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.
Robert W. Zielke — 6-9-77
HOWARD SOIL CONSERVATION DISTRICT — DATE

OWNER AND DEVELOPER
MR. RONALD HINES
7220 ROUTE 32
CLARKSVILLE, MARYLAND 21029



PIPE SLOPE DRAIN (RIGID)
NO SCALE



PIPE SLOPE DRAIN (FLEXIBLE)
NO SCALE

TITLE: SEDIMENT CONTROL DETAILS			
PROJECT: HINES PROPERTY			
LOCATION: 5TH ELECT. DISTRICT HOWARD COUNTY, MARYLAND			
DATE: 4/19/77	DES. BY: R.M.	DRAWN BY:	CHKD. BY: R.M.
SCALE: AS SHOWN	JOB NO. 7725	DRWG. NO.: 4 OF 5	

STATE OF MARYLAND — RODOLPH L. MAY JR. — NO. 8706 — REGISTERED PROFESSIONAL ENGINEER
Rodolph May Jr. 4-19-77
DATE

ENGINEERING PLANNING SURVEYING BY
BOENDER ASSOCIATES INC.
BALTIMORE, MD. 465-7777
SALISBURY, MD. 749-1286
WESTMINSTER, MD. 848-5588

SDP-77-85