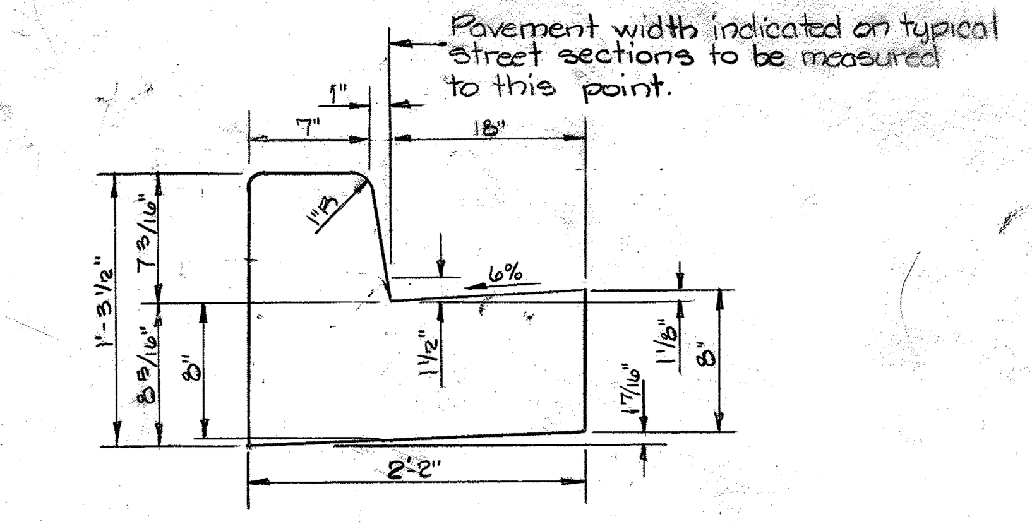
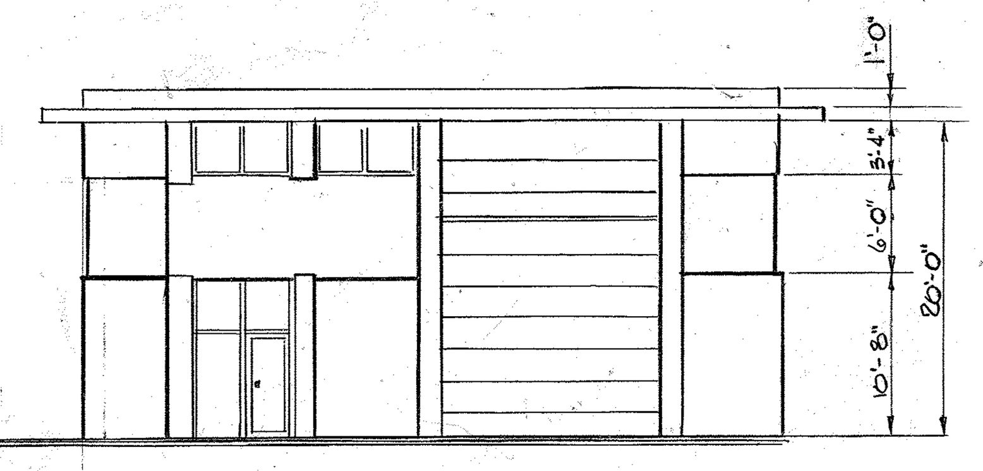
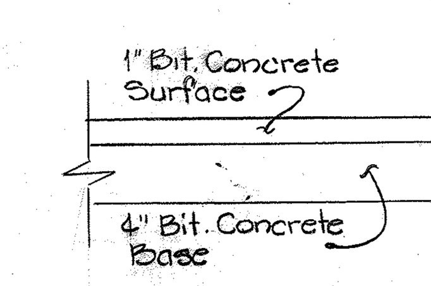


Standard 7" Combination Curb & Gutter
N.T.S.

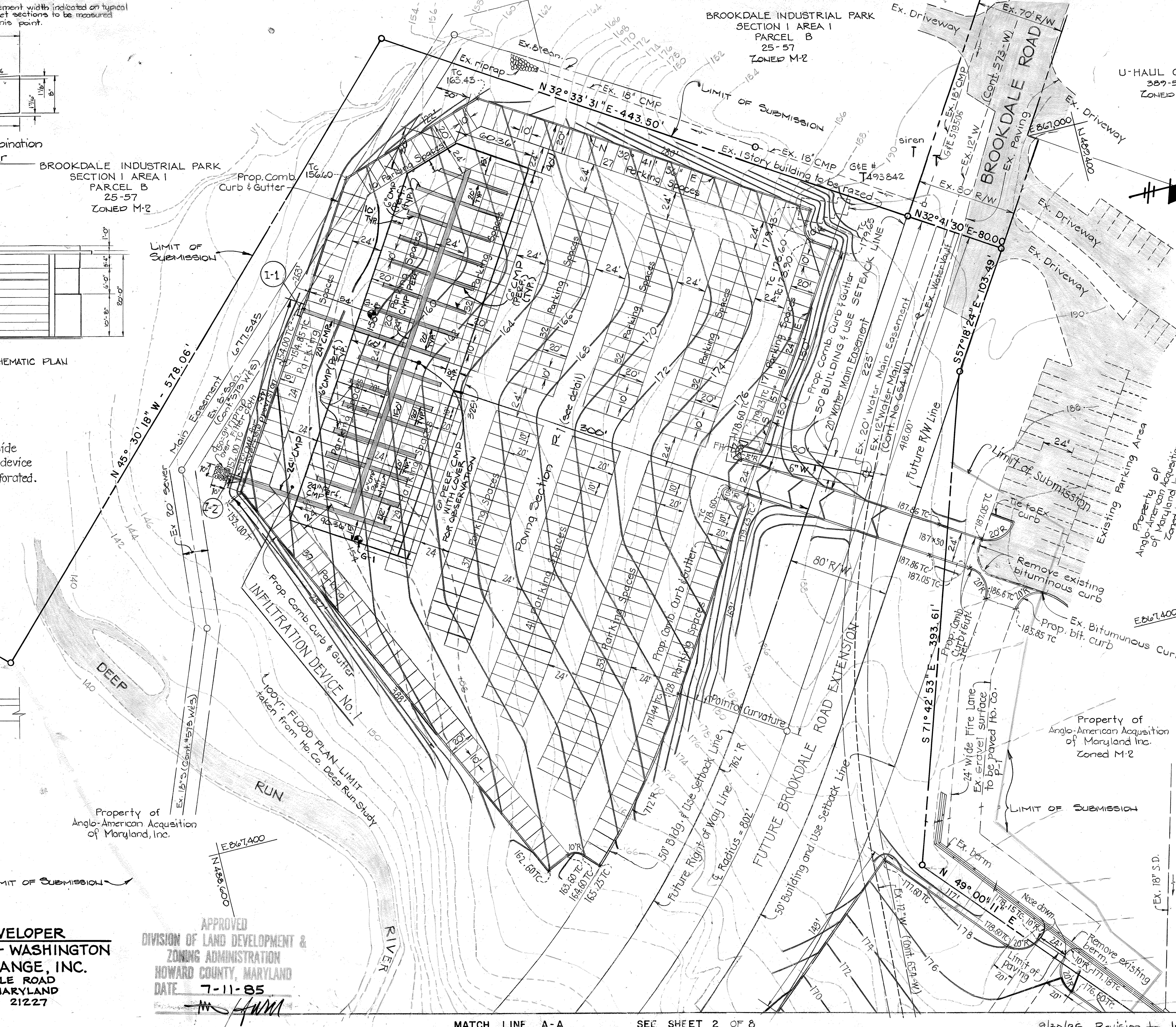


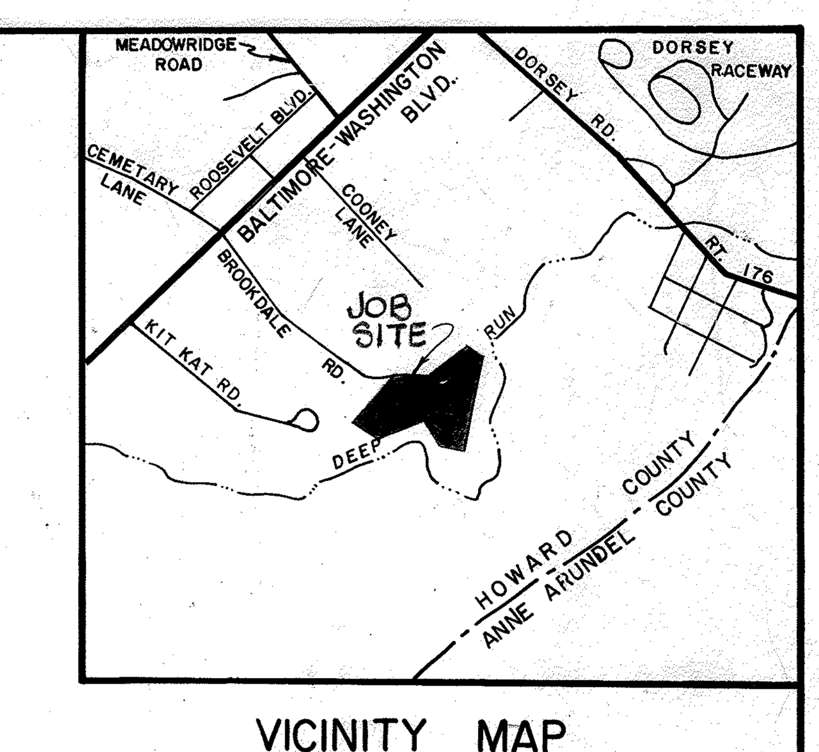
BUILDING SCHEMATIC PLAN

NOTE: All CMP inside infiltration device shall be perforated.



P-1 Detail
N.T.S.





VICINITY MAP
SCALE: 1" = 2,000'

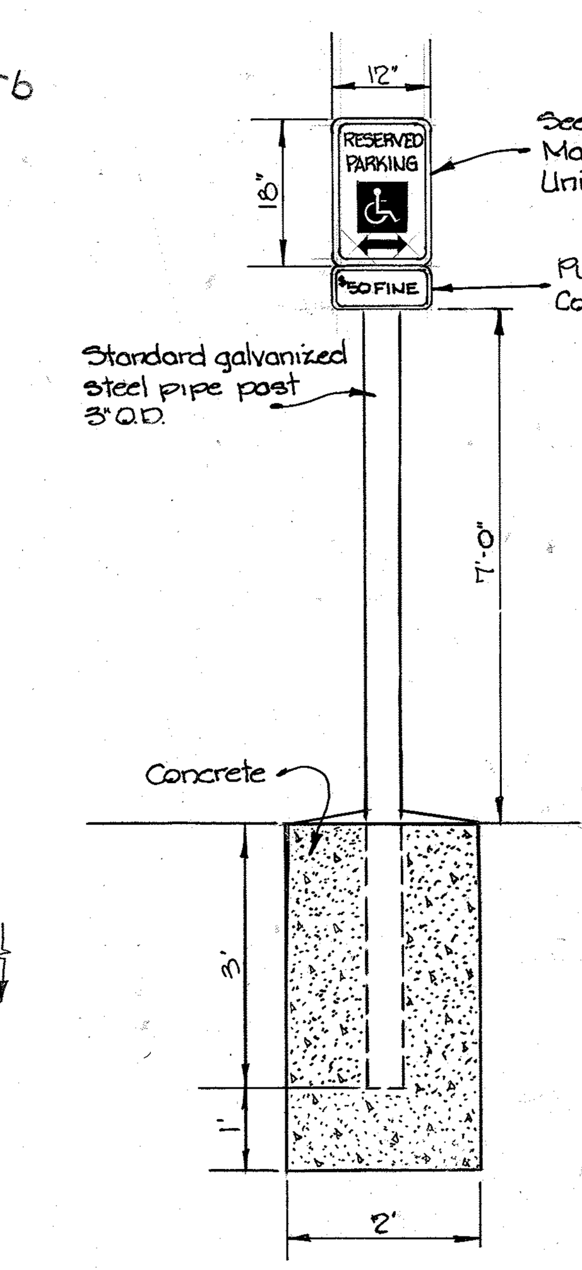
GENERAL NOTES

1. Area of property to be developed: 14.156 ac.
2. Public water and public sewer
3. Parking spaces provided: 44 spaces
   Total floor area of building: 8,880 sq.ft.

   Parking required: 8880 sq.ft. @ 1 per 500 sq.ft. = 18 spaces

4. Use of building: Automobile Reconditioning Center
5. Zoning: M-2
6. Total area of property: 104.942 ac.
7. Percentage of building: 0.19%
   Percentage of Open Space: 86.51% (Total)
   Percentage of paving: 13.30%

Boring Location



HANDICAPPED PARKING SIGN DETAIL
N.T.S.

ADDRESS CHART	
PARCEL NO.	STREET ADDRESS
116	7171 BROOKDALE RD.

SUBDIVION NAME BROOKDALE INDUSTRIAL PARK			SECT/AREA	LOT/PARCEL# 116	
PLAT # ORL/F 850/147	BLOCK # 5	ZONE M-2	TAX/ZONE MAP # 43	ELECT. DIST 1ST	CENSUS TR. 6012
WATER CODE			SEWER CODE		

Reviewed for Howard County S.C.D. and meets Technical Requirements.
U.S. Soil Conservation Service — Date 8-8-85

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.
Howard S.C.D. — Date 8-8-85

OWNER / DEVELOPER
BALTIMORE - WASHINGTON AUTO EXCHANGE, INC.
7151 BROOKDALE ROAD
BALTIMORE, MARYLAND 21227

APPROVED
DIVISION OF LAND DEVELOPMENT & ZONING ADMINISTRATION
HOWARD COUNTY, MARYLAND
DATE 7-11-85

MATCH LINE A-A SEE SHEET 2 OF 8

9/30/85 Revision to Infiltration Device No. 1

PURDUM & JESCHKE
CONSULTING ENGINEERS
LAND SURVEYORS
1023 North Calvert Street
Baltimore, Maryland 21202 301/837-0194

APPROVED FOR PUBLIC WATER, PUBLIC SEWERAGE, STORM DRAINAGE, AND ROAD.
HOWARD CO. DEPT. OF PUBLIC WORKS
DIRECTOR — DATE 8-9-85
CHIEF, BUREAU OF ENGINEERING — DATE 8-9-85

APPROVED: FOR PUBLIC WATER & PUBLIC SEWERAGE SYSTEMS.
HOWARD COUNTY HEALTH DEPARTMENT
COUNTY HEALTH OFFICER — DATE 8-13-81

APPROVED
HOWARD CO. OFFICE OF PLANNING & ZONING
CHIEF, DIVISION OF LAND DEVELOPMENT & ZONING ADMIN. — DATE 8-13-85
PLANNING DIRECTOR — DATE 8-15-85

DEVELOPER'S CERTIFICATION

I CERTIFY THAT ALL DEVELOPMENT & CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN AND ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT THE DEPT. OF NATURAL RESOURCES APPROVED TRAINING PROGRAM FOR THE CONTROL OF ANY SEDIMENT EROSION BEFORE BEGINNING THE PROJECT.

ENGINEER'S CERTIFICATION

I CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRATICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.
4/5/85

STATE OF MARYLAND — WILLIAM B. RASCH JR. — No. 4575 — REGISTERED — Professional Engineers & Land Surveyor

ANGLO AMERICAN ACQUISITION OF MARYLAND, INC.
BROOKDALE INDUSTRIAL PARK, PARCEL 116
SITE PLAN
& STORM WATER MANAGEMENT FACILITY PLAN
FIRST ELECTION DISTRICT HOWARD COUNTY MD.
JANUARY 16, 1985 SCALE: 1" = 40'

SHEET 1 OF ~~8~~ 10
DES: ATR
DRW'N: TE
CHK: ATR

SDP-85-172

BRUNING ANE 1M3-2

12-14-23	RK&K	ADDITION OF ELEVATED CONCRETE PAD AND CANOPY
4-15-86	ART	Eliminated Pond #2 and enlarged I.D.
11-19-85	Art	Changed Building size
Date	By	Description

G-10 — SOIL BORING PROFILE

Depth	Description
0–1	Tan silty fine sand (SM) dry
2–3	Stiff brown fine sandy clay (CL) moist
4–5	(No groundwater encountered)

G-11 — SOIL BORING PROFILE

Depth	Description
0–1	Loose tan silty Fine sand (SM) dry
2–4	Stiff tan fine sandy clay (CL) dry
5	NO Groundwater

RK&K
700 EAST PRATT ST, SUITE 500 BALTIMORE, MD 21202

PROFESSIONAL CERTIFICATION: I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND. LICENSE NO 49432, EXPIRATION DATE 05/31/24.

PURPOSE STATEMENT: ADDITION OF ELEVATED CONCRETE PAD AND CANOPY

THESE PLANS HAVE BEEN REVIEWED FOR THE HOWARD SOIL CONSERVATION DISTRICT AND MEET THE TECHNICAL REQUIREMENTS FOR SMALL POND CONSTRUCTION, SOIL EROSION AND SEDIMENT CONTROL.

U.S. SOIL CONSERVATION SERVICE — DATE 8/8/85

THESE PLANS FOR SMALL POND CONSTRUCTION, SOIL EROSION AND SEDIMENT CONTROL MEET THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.

HOWARD SOIL CONSERVATION DISTRICT — DATE 8-8-85

PURDUM & JESCHKE
CONSULTING ENGINEERS
LAND SURVEYORS
1023 North Calvert Street
Baltimore, Maryland 21202 301/837-0194

APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE, STORM DRAINAGE, AND ROAD.
HOWARD CO. DEPT. OF PUBLIC WORKS
DIRECTOR — DATE 8-9-85
CHIEF, BUREAU OF ENGINEERING — DATE

APPROVED: FOR PUBLIC WATER & PUBLIC SEWERAGE SYSTEMS.
HOWARD COUNTY HEALTH DEPARTMENT
COUNTY HEALTH OFFICER — DATE

APPROVED: HOWARD CO. OFFICE OF PLANNING & ZONING
CHIEF, DIVISION OF LAND DEVELOPMENT & ZONING ADMIN. — DATE 8-13-85
PLANNING DIRECTOR — DATE 8-13-85

DEVELOPER'S CERTIFICATION

I CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN AND ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT THE DEPARTMENT OF NATURAL RESOURCES APPROVED TRAINING PROGRAM FOR THE CONTROL OF ANY SEDIMENT EROSION BEFORE BEGINNING THE PROJECT. I WILL PROVIDE THE HOWARD SOIL CONSERVATION DISTRICT WITH AN "AS-BUILT" PLAN OF THE POND WITHIN 30 DAYS OF COMPLETION.

ENGINEER'S CERTIFICATION

I CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT. I HAVE NOTIFIED THE DEVELOPER THAT HE MUST PROVIDE THE HOWARD SOIL CONSERVATION DISTRICT WITH AN "AS BUILT" PLAN OF THE POND WITHIN 30 DAYS OF COMPLETION.
4/5/85

STATE OF MARYLAND — WILLIAM G. RASCH III — No. 4575 REGISTERED — Professional Land Surveyor

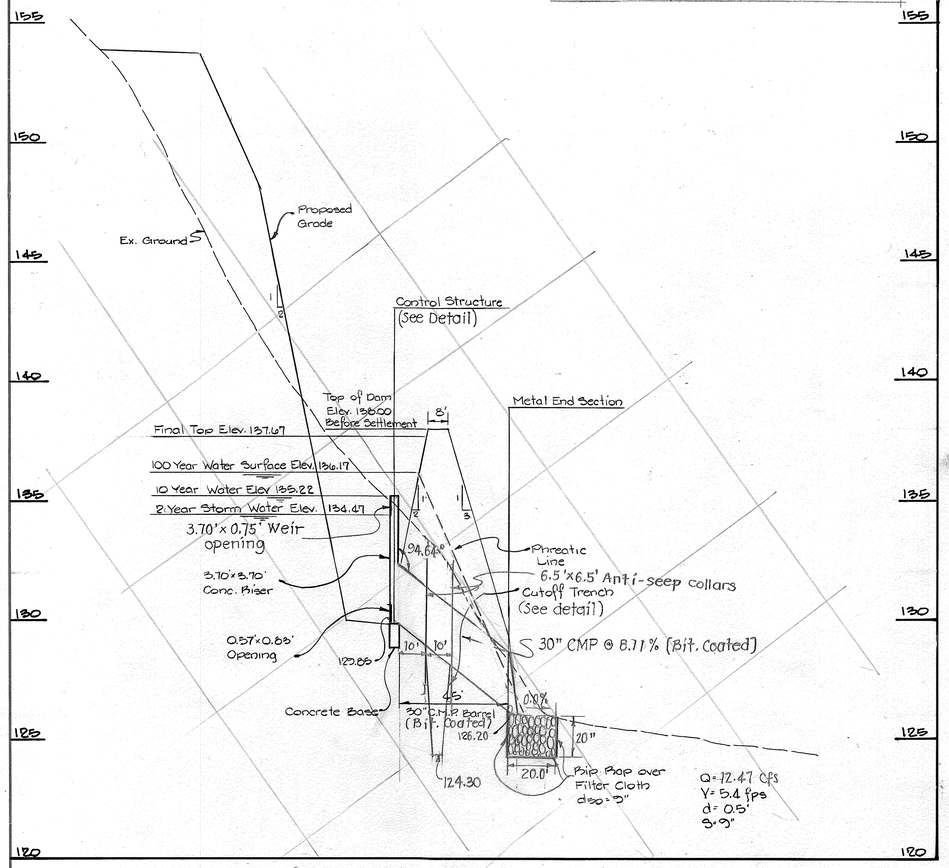
ANGLO AMERICAN ACQUISITION OF MARYLAND, INC.
BROOKDALE INDUSTRIAL PARK, PARCEL 116
REVISED SITE PLAN
& STORM WATER MANAGEMENT FACILITY PLAN
FIRST ELECTION DISTRICT HOWARD COUNTY MD.
JANUARY 11, 1985 SCALE 1" = 40'

SHEET 2 OF 10
DES: ATR
DRW'N: TE
CHK: ATR

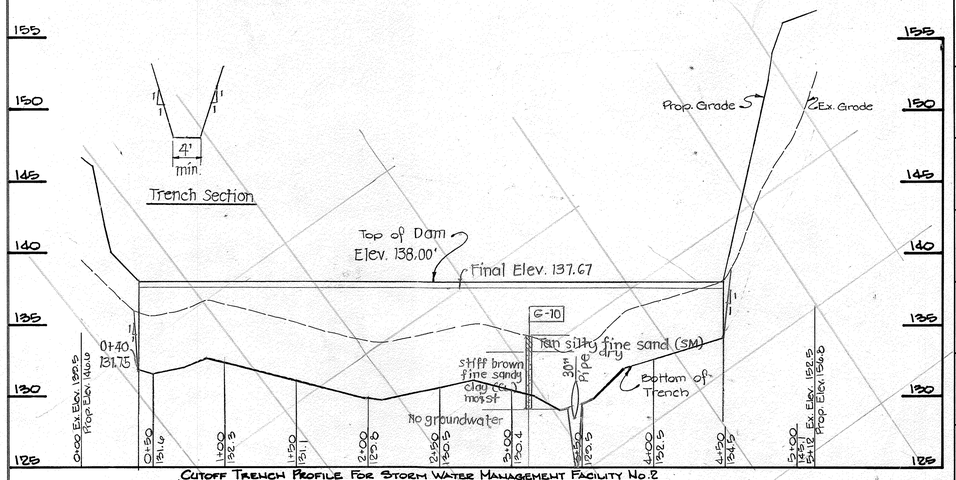
SDP-85-172

BRUNING ANE 1M3-2

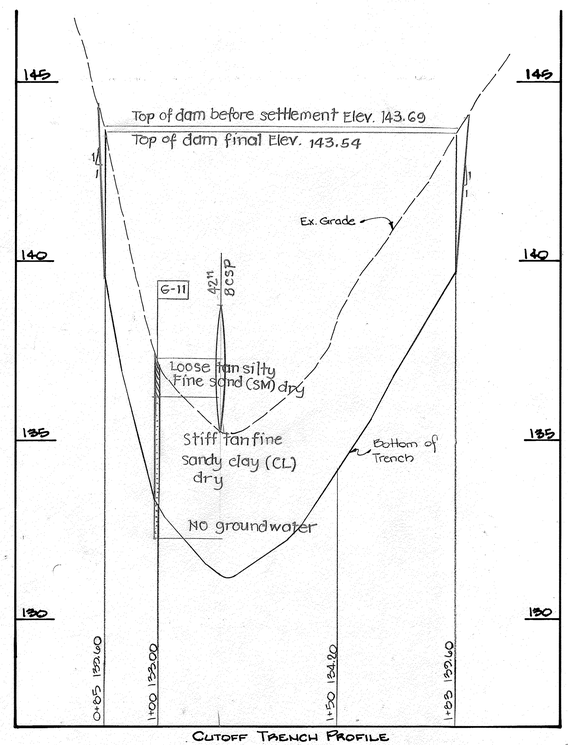
DATE	BY	REVISION
4-15-86	AKT	CROSSED OUT SWM #2 PROFILES



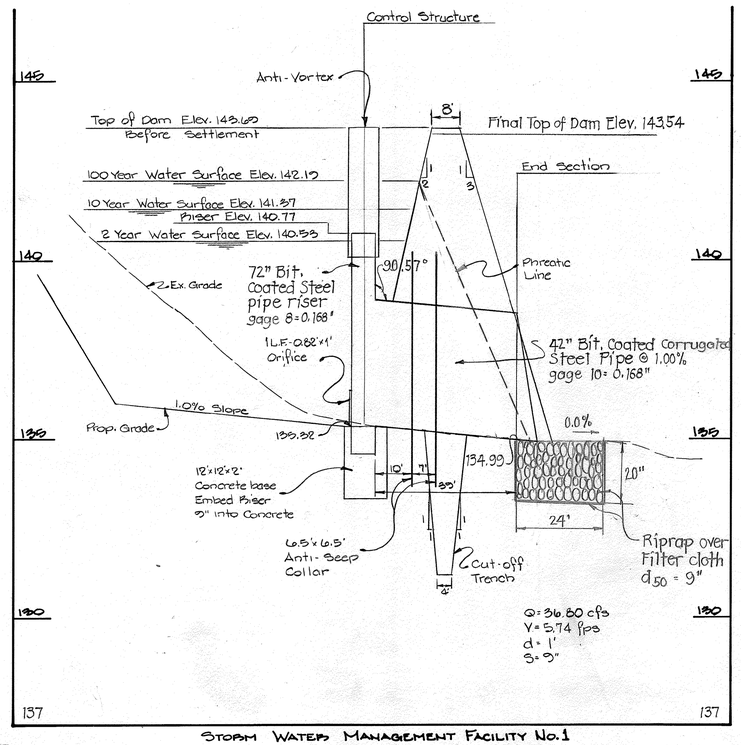
STORM WATER MANAGEMENT FACILITY NO. 2
SCALE 1"=20' HOR.
1" = 3' VERT.



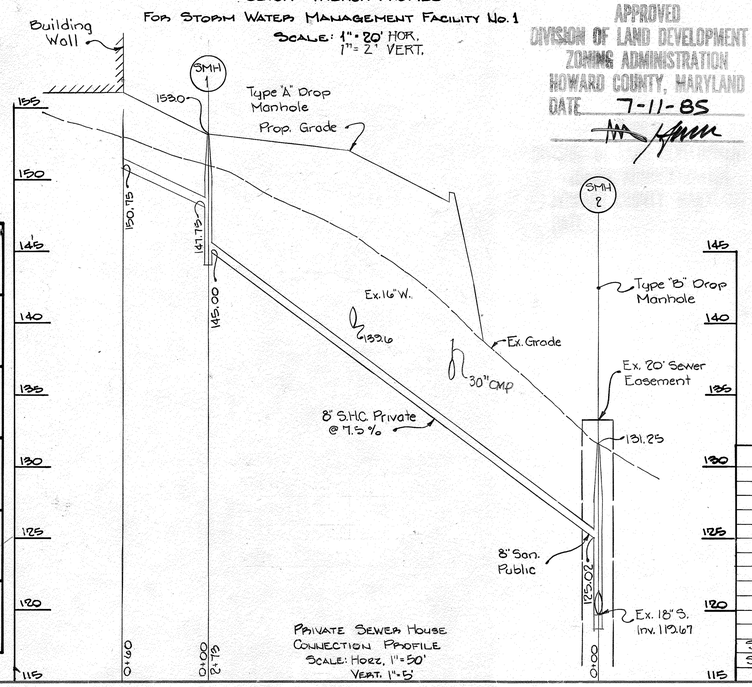
CUTOFF TRENCH PROFILE FOR STORM WATER MANAGEMENT FACILITY NO. 2
SCALE: VERT. 1"=5', HORZ. 1"=50'



CUTOFF TRENCH PROFILE
FOR STORM WATER MANAGEMENT FACILITY NO. 1
SCALE: 1"=20' HOR.
1"=2' VERT.

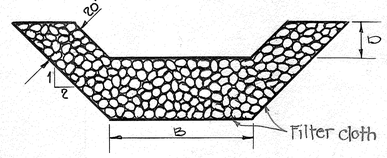


STORM WATER MANAGEMENT FACILITY NO. 1
SCALE: 1"=20' HOR.
1"=2' VERT.



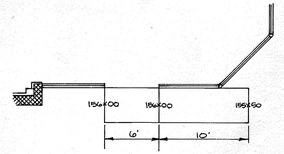
PRIVATE SEWER HOUSE CONNECTION PROFILE
SCALE: HORZ. 1"=50'
VERT. 1"=5'

APPROVED
DIVISION OF LAND DEVELOPMENT & ZONING ADMINISTRATION
HOWARD COUNTY, MARYLAND
DATE 7-11-85



RIP - RAP DETAIL
N.T.S.

OUTFALL	B	D
E-1	4	—
E-2	35	1.5
E-3	—	—
S.W.M.F. No.1 Outfall	7'	1.5
S.W.M.F. No.2 Outfall	8'	1.5



HANDICAPPED RAMP
DETAIL & PROFILE
SCALE: AS SHOWN

STRUCTURE SCHEDULE

No.	Type	Inv. In	Inv. Out	Top Elev.	Remarks
I-1	A-10	146.50	146.50	154.00	STD 4.02
I-2	A-10	146.50	146.50	152.00	STD 4.02
I-3	A-10	137.00	134.25	145 @ 30	STD 4.02
I-4	A-10	—	147.75	152.50	STD 4.02
I-5	A-10	—	140.75	145.37	STD 4.02
I-6	A-10	—	148.00	154.60	STD 4.02
I-7	A-10	136.55	134.05	147.14	STD 4.02
MH-1	STD Precast MH	145.49	145.29	155.00	G 5.11
E-1	Metal	—	—	138.75	STD 5.61
E-2	End Section	—	—	133.05	STD 5.61
E-3	Metal End Section	—	—	133.75	STD 5.61
S.W.M. 1	Metal End Section	—	—	122.50	STD 5.61
S.W.M. 2	Metal End Section	—	—	138.49	STD 5.61

These plans have been reviewed for the Howard Soil Conservation District and meet the technical requirements for small pond construction, soil erosion and sediment control.

U.S. Soil Conservation Service — Date 8/8/85

These plans for small pond construction, soil erosion and sediment control meet the requirements of the Howard Soil Conservation District.

Howard Soil Conservation District — Date 8-8-85

PURDUM & JESCHKE
CONSULTING ENGINEERS
LAND SURVEYORS
1023 North Calvert Street
Baltimore, Maryland 21202 — 301/837-0194

APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE, STORM DRAINAGE AND ROADS, HOWARD COUNTY, DEPT. OF PUBLIC WORKS.
DIRECTOR — DATE 8-9-85
CHIEF, BUREAU OF ENGINEERING — DATE 8-8-85

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS. HOWARD COUNTY HEALTH DEPT.
COUNTY HEALTH OFFICER — DATE 8/13/85

APPROVED: HOWARD COUNTY OFFICE OF PLANNING & ZONING.
CHIEF, DIVISION OF LAND DEVELOPMENT & ZONING ADMIN. — DATE 8-13-85
PLANNING DIRECTOR — DATE 8-13-85

DEVELOPER'S CERTIFICATION
I CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN AND ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT THE DEPARTMENT OF NATURAL RESOURCES APPROVED TRAINING PROGRAM FOR THE CONTROL OF ANY SEDIMENT EROSION BEFORE BEGINNING THE PROJECT. I WILL PROVIDE THE HOWARD SOIL CONSERVATION DISTRICT WITH AN "AS-BUILT" PLAN OF THE POND WITHIN 30 DAYS OF COMPLETION.
DATE 8/5/85

ENGINEER CERTIFICATION
I CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT. I HAVE NOTIFIED THE DEVELOPER THAT HE MUST PROVIDE THE HOWARD SOIL CONSERVATION DISTRICT WITH AN "AS-BUILT" PLAN OF THE POND WITHIN 30 DAYS OF COMPLETION.
WILLIAM G. RASCH, II — DATE 4/6/85

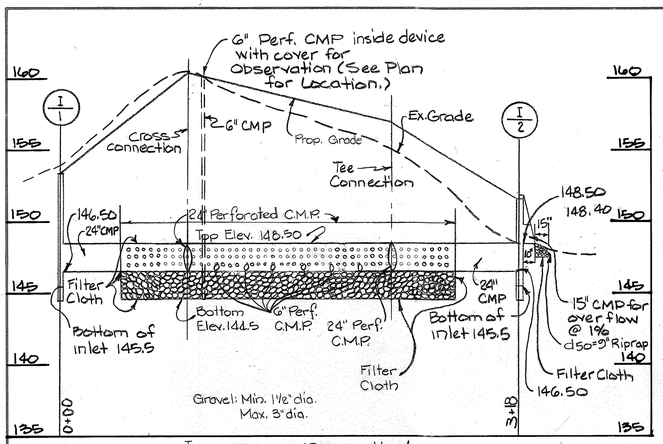
STATE OF MARYLAND — WILLIAM G. RASCH, II

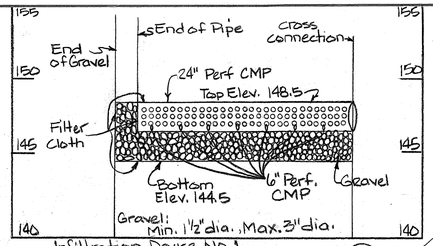
ANGLO AMERICAN ACQUISITION
OF MARYLAND INC.
BROOKDALE INDUSTRIAL PARK, PARCEL 116
STORM WATER MANAGEMENT PROFILES
FIRST ELECTION DISTRICT HOWARD COUNTY MD.
JUNE ,1985 SCALE: AS SHOWN

SHEET 3 OF 810
DES: A.T.P.
DRWN: T.D.E.
CHK: A.T.P.

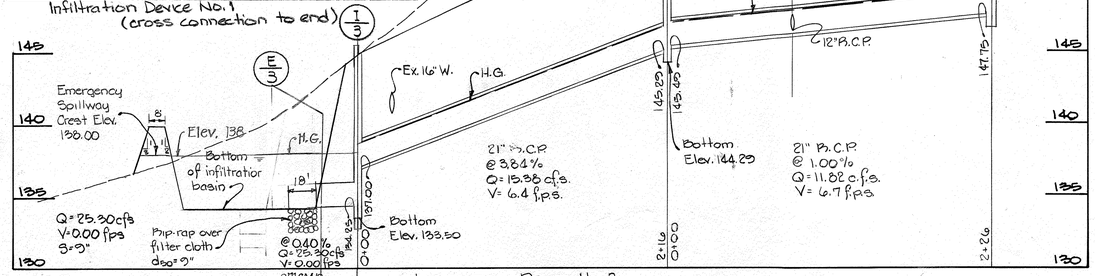
SDP-85-172

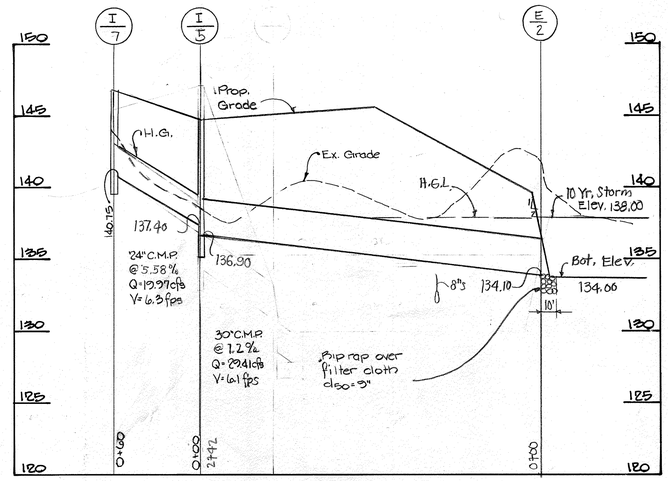
BRUNING ANE 1M3-2





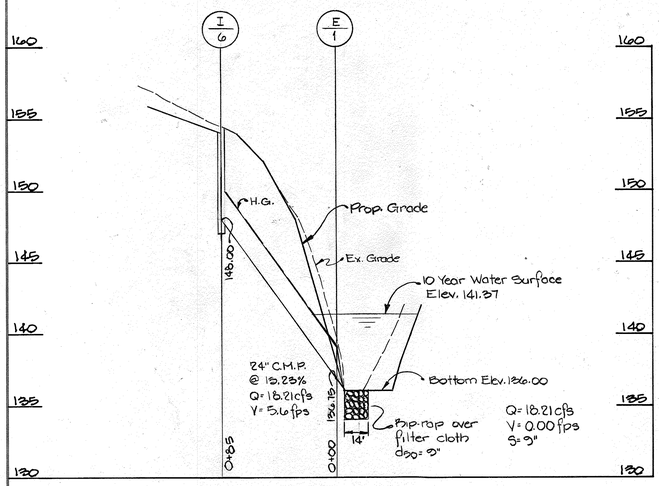
Infiltration Device No. 1 (cross connection to end)

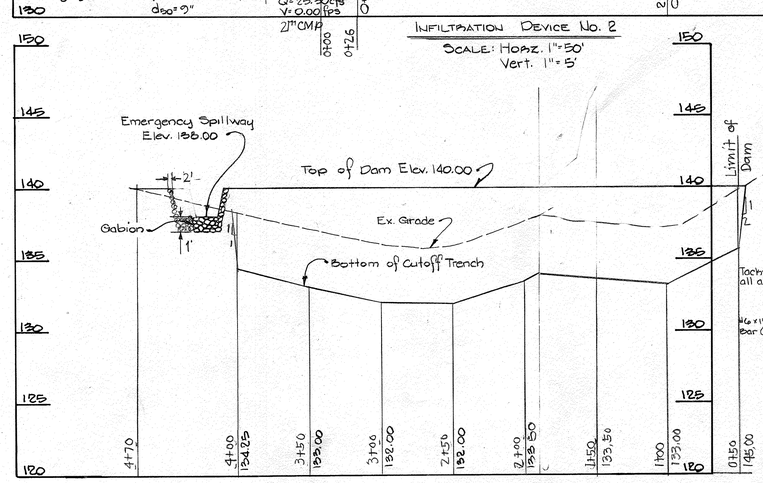




Storm Drain Profile
Scale: Horz. 1"=50'
Vert. 1"=5'

Infiltration Device No. 1
Scale: Horz. 1"=50'
Vert. 1"=5'

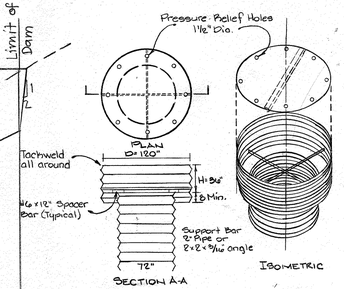




Infiltration Device No. 2
Scale: Horz. 1"=50'
Vert. 1"=5'

DATE	BY	REVISION
4-15-86	ART	CROSSED OUT SWM#2 DETAIL &
		REVISED PROFILES

Storm Drain Profile
Scale: Horz. 1"=50'
Vert. 1"=5'



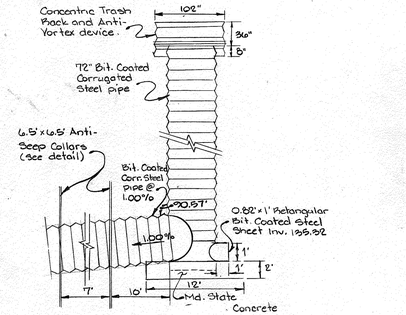
Top Stiffener 2"x2"x¼" angle welded to top and oriented perpendicular to corrugations.

Top is 8 gage corrugated metal or ⅛" steel plate pressure relief holes may be omitted, if ends of corrugations are left fully open when corrugated top is welded to cylinder.

Cylinder is 10 gage corrugated metal pipe or fabricated from ⅛" steel plate.

Notes:
1) The cylinder must be firmly fastened to the top of the riser.
2) Support bars are welded to the top of the riser or attached by straps bolted to top of riser.

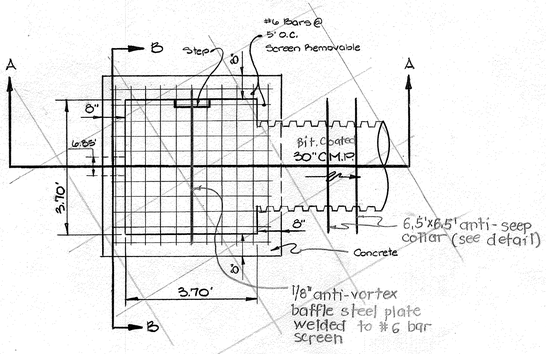
Anti-Vortex & Trash Rack Detail
No Scale



Principal & Emergency Spillway Detail
No Scale

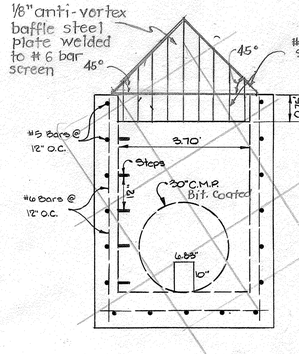
APPROVED
DIVISION OF LAND DEVELOPMENT & ZONING ADMINISTRATION
HOWARD COUNTY, MARYLAND
DATE 7-11-85

Storm Drain Profile
Scale: Horz. 1"=50'
Vert 1"=5'

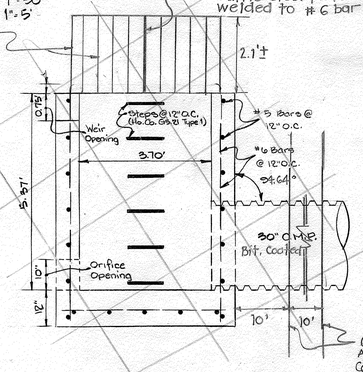


Plan
1"=20'

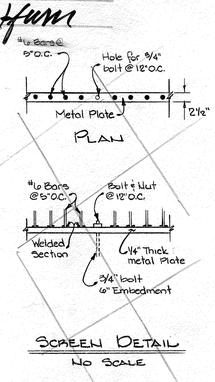
Infiltration Device No. 2
Cut-Off Trench Profile
Scale: Horz. 1"=50'
Vert. 1"=5'



Section B-B
1"=20'



Section A-A
1"=20'



Screen Detail
No Scale

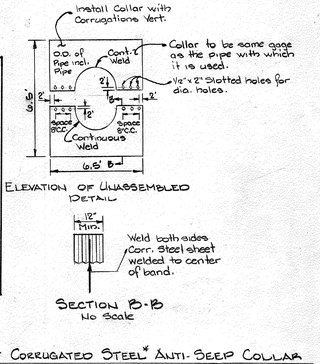
Storm Water Management Facility No. 2

These plans have been reviewed for the Howard Soil Conservation District and meet the technical requirements for small pond construction, soil erosion and sediment control.

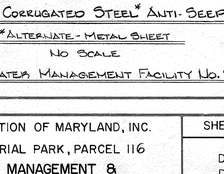
U.S. Soil Conservation Service — Date 8/8/85

These plans for small pond construction, soil erosion and sediment control meet the requirements of the Howard Soil Conservation District.

Howard Soil Conservation District — Date 8-8-85



Elevation of Unassembled Detail



Section B-B
No Scale

Details of Corrugated Steel* Anti-Seep Collar
*Alternate - Metal Sheet
No Scale

Storm Water Management Facility No. 1 & No. 2

9/30/85 Revised. Infiltration Device No. 1

Storm Water Management Facility No. 2 Risers Detail

Storm Water Management Facility No. 1
Structure Detail

PURDUM & JESCHKE
CONSULTING ENGINEERS
LAND SURVEYORS
1023 North Calvert Street
Baltimore, Maryland 21202 301/837-0194

APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE, STORM DRAINAGE AND ROADS, HOWARD COUNTY, DEPT. OF PUBLIC WORKS.
DIRECTOR — DATE 8-9-85
CHIEF, BUREAU OF ENGINEERING — DATE 8-9-85

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS. HOWARD COUNTY HEALTH DEPT.
COUNTY HEALTH OFFICER — DATE 8-17-81

APPROVED: HOWARD COUNTY OFFICE OF PLANNING & ZONING.
CHIEF, DIVISION OF LAND DEVELOPMENT & ZONING ADMIN. — DATE 8-13-85
PLANNING DIRECTOR — DATE

DEVELOPER'S CERTIFICATION
I CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN AND ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT THE DEPARTMENT OF NATURAL RESOURCES APPROVED TRAINING PROGRAM FOR THE CONTROL OF ANY SEDIMENT EROSION BEFORE BEGINNING THE PROJECT. I WILL PROVIDE THE HOWARD SOIL CONSERVATION DISTRICT WITH AN "AS-BUILT" PLAN OF THE POND WITHIN 30 DAYS OF COMPLETION.
DATE 8/5/85

ENGINEER CERTIFICATION
I CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT. I HAVE NOTIFIED THE DEVELOPER THAT HE MUST PROVIDE THE HOWARD SOIL CONSERVATION DISTRICT WITH AN "AS BUILT" PLAN OF THE POND WITHIN 30 DAYS OF COMPLETION.
WILLIAM G. RASCH, II — DATE 6/6/85

STATE OF MARYLAND — WILLIAM G. RASCH

ANGLO AMERICAN ACQUISITION OF MARYLAND, INC.
BROOKDALE INDUSTRIAL PARK, PARCEL 116
STORM WATER MANAGEMENT & STORM DRAIN PROFILES AND DETAILS
FIRST ELECTION DISTRICT HOWARD COUNTY MD.
JUNE ,1985 SCALE: AS SHOWN

SHEET 4 OF 10
DES: A.T.R.
DRWN: T.D.E.
CHK: A.T.R.

BRUNING ANE 1M3-2

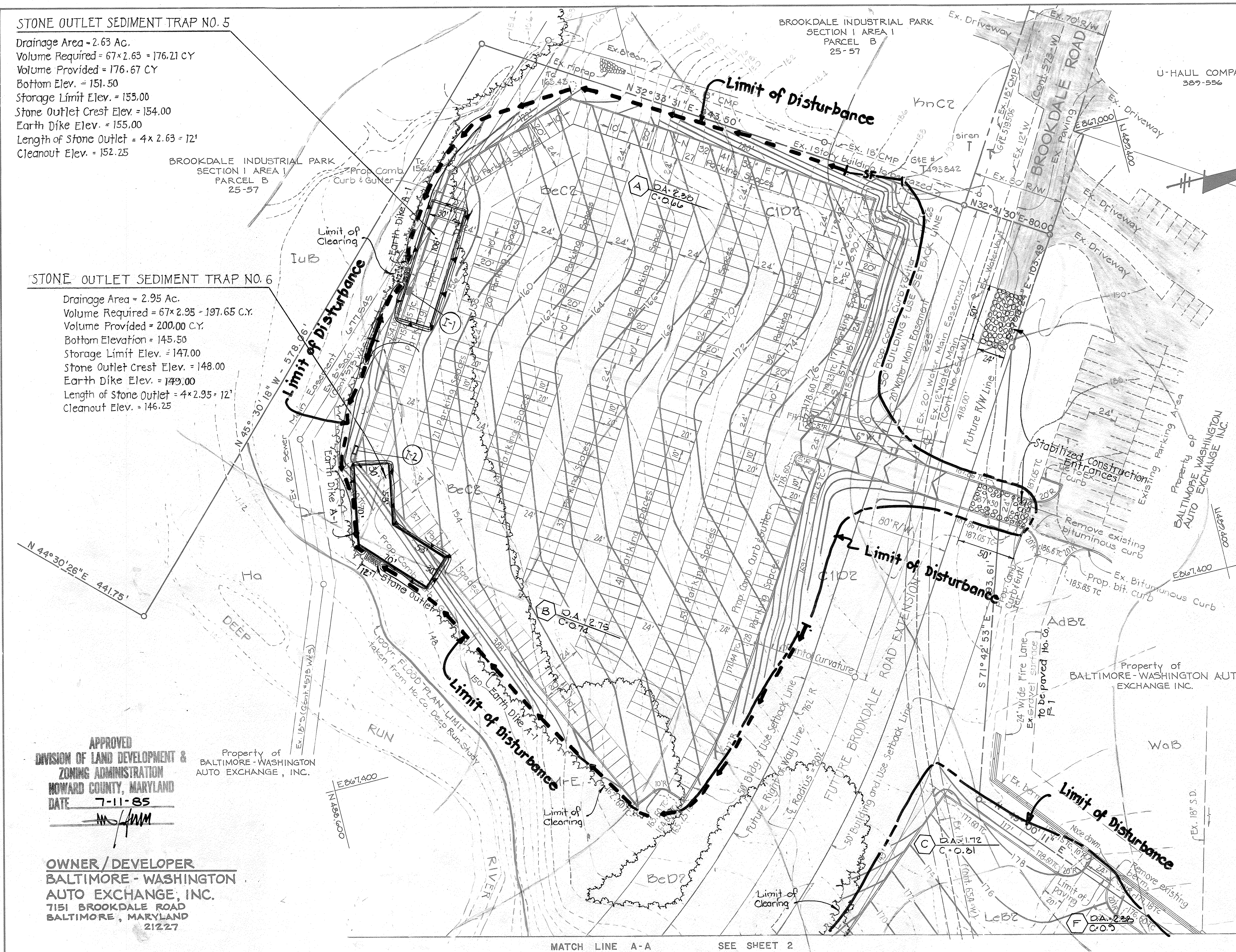
SDP-85-172

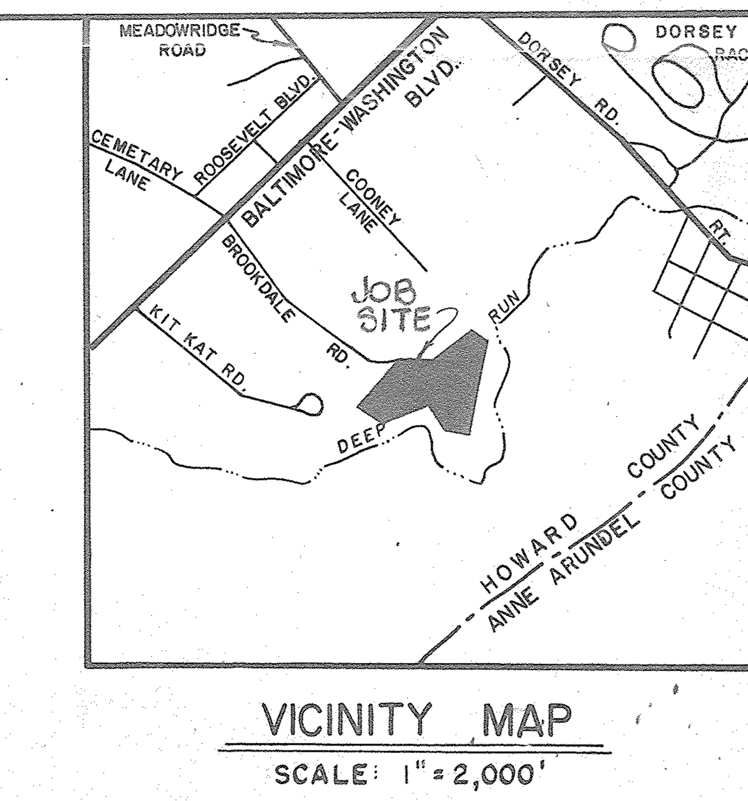
STONE OUTLET SEDIMENT TRAP NO. 5

Drainage Area = 2.63 Ac.
Volume Required = 67×2.63 = 176.21 CY
Volume Provided = 176.67 CY
Bottom Elev. = 151.50
Storage Limit Elev. = 153.00
Stone Outlet Crest Elev. = 154.00
Earth Dike Elev. = 155.00
Length of Stone Outlet = 4×2.63 = 12'
Cleanout Elev. = 152.25

STONE OUTLET SEDIMENT TRAP NO. 6

Drainage Area = 2.95 Ac.
Volume Required = 67×2.95 = 197.65 C.Y.
Volume Provided = 200.00 C.Y.
Bottom Elevation = 145.50
Storage Limit Elev. = 147.00
Stone Outlet Crest Elev. = 148.00
Earth Dike Elev. = 149.00
Length of Stone Outlet = 4×2.95 = 12'
Cleanout Elev. = 146.25





VICINITY MAP
SCALE: 1" = 2,000'

GENERAL NOTES

1. Area of property to be developed: 14.156 ac.
2. Public water and public sewer
3. Parking spaces provided: 490 spaces
   Total floor area of building: 20,290 sq.ft.
   Office area: 3450 sq.ft.
   Parking required: 3450 sq.ft. @ 1 per 200 sq.ft. = 18 spaces
4. Use of building: Automobile Reconditioning Center
5. Zoning M-2
6. Total area of property: 104.942 ac.

CONSTRUCTION SEQUENCE

1. Obtain grading permit - 19 days - Jun. 10, 1985 - Jun. 28, 1985.
2. Clearing & grubbing for the installation of perimeter controls. 5 days - July 1, 1985 to July 5, 1985.
3. Install sediment control devices and construct storm water management facility Nos. 1 & 2 to be used as Sediment Basins. Install dewatering devices. - 18 days - July 8, 1985 - July 31, 1985.
4. Clearing and grubbing of site - 10 days - July 8, 1985 - Jul. 19, 1985
5. Start grading to subgrade - 25 days - July 15, 1985 - Aug. 16, 1985
6. Start installation of storm drain, water and sewer. Provide protection to all inlets - 10 days - Aug. 5, 1985 - Aug. 16, 1985.
7. Start building construction - 30 days - Aug. 19, 1985 - Sept. 27, 1985.
8. Install curb and gutter and paving, except at Infiltration Device No. 1. 30 days - Aug. 19, 1985 - Sept. 27, 1985.
9. Start construction of Infiltration Device Nos. 1 & 2. Remove or relocate sediment traps if necessary to fully construct Infiltration Devices as per approval of sediment control inspector, 10 days Sept. 9, 1985 - Sept. 20, 1985.
10. Install remaining curb & gutter and paving. Final grading and stabilization of disturbed areas not to be paved. 34 days Sept. 16, 1985 - Oct. 31, 1985.
11. Convert Sediment Basin Nos. 1 & 2 into SWM Fac. Nos. 1 & 2 by removing dewatering devices, reshaping the ponds and stabilizing disturbed areas. 20 days - Oct. 7, 1985 - Nov. 1, 1985.
12. Remove remaining sediment control devices as per approval of Sed. Control Inspector - 20 days Nov. 4, 1985 - Nov. 29, 1985.

ADDRESS CHART	
PARCEL NO.	STREET ADDRESS
116	7151 BROOKDALE RD.

SUBDIVION NAME			SECT/AREA		LOT/PARCEL#
BROOKDALE INDUSTRIAL PARK			~~1/1~~		116
PLAT# ORL/F 850/147	BLOCK # 5	ZONE M-2	TAX/ZONE MAP# 43	ELECT. DIST 1ST	CENSUS TR. 6012
WATER CODE			SEWER CODE		

Reviewed for Howard County S.C.D. and meets Technical Requirements.
[signature] 8/8/85
U.S. Soil Conservation Service — Date

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.
[signature] 8/8/85
Howard S.C.D. — Date

APPROVED
DIVISION OF LAND DEVELOPMENT & ZONING ADMINISTRATION
HOWARD COUNTY, MARYLAND
DATE 7-11-85
[signature]

OWNER / DEVELOPER
BALTIMORE - WASHINGTON
AUTO EXCHANGE, INC.
7151 BROOKDALE ROAD
BALTIMORE, MARYLAND
21227

PURDUM & JESCHKE
CONSULTING ENGINEERS
LAND SURVEYORS
1023 North Calvert Street
Baltimore, Maryland 21202 301/837-0194

APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE, STORM DRAINAGE, AND ROAD.
HOWARD CO. DEPT. OF PUBLIC WORKS
[signature] 8-9-85
DIRECTOR — DATE
[signature] 8-9-85
CHIEF, BUREAU OF ENGINEERING — DATE

APPROVED: FOR PUBLIC WATER & PUBLIC SEWERAGE SYSTEMS.
HOWARD COUNTY HEALTH DEPARTMENT
[signature] 8-12-85
COUNTY HEALTH OFFICER — DATE

APPROVED: HOWARD CO. OFFICE OF PLANNING & ZONING
[signature] 8-13-85
CHIEF, DIVISION OF LAND DEVELOPMENT & ZONING ADMIN. — DATE
[signature] 8-13-85
PLANNING DIRECTOR — DATE

DEVELOPER'S CERTIFICATION
I CERTIFY THAT ALL DEVELOPMENT & CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN AND ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT THE DEPT. OF NATURAL RESOURCES APPROVED TRAINING PROGRAM FOR THE CONTROL OF ANY SEDIMENT EROSION BEFORE BEGINNING THE PROJECT.
[signature] 4/8/85

ENGINEER'S CERTIFICATION
I CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRATICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.
[signature] 4/5/85

STATE OF MARYLAND — WILLIAM G. RASCH III — REGISTERED Professional Engineers & Land Surveyors

ANGLO AMERICAN ACQUISITION OF MARYLAND, INC.
BROOKDALE INDUSTRIAL PARK, PARCEL 116
SEDIMENT CONTROL PLAN
SOIL MAP & STORM DRAINAGE AREA MAP
FIRST ELECTION DISTRICT HOWARD COUNTY MD.
JANUARY 16, 1985 SCALE: 1" = 40'

SHEET 5 OF ~~8~~ 10
DES: ATR
DRW'N: TE
CHK: ATR

SDP-85-172

BRUNING ANE 1M3-2


MATCH LINE SEE SHEET 1 OF
STONE OUTLET SEDIMENT TRAP NO. 1
Drainage Area = 2.84 Ac.
Volume Required = 67 x 2.84 = 190.28 C.Y.
Volume Provided = 190.74 C.Y.
Bottom Elev. = 148.50
Storage Limit Elev. = 150.00
Stone Outlet crest Elev. = 151.00
Earth dike Elev. = 152.00
Length of stone outlet = 12'
Cleanout Elev. = 149.25'
Limit of Disturbance
Limit of Clearing
Prop. Combination Curb & Gutter
Existing Stormwater Management Facility
Deep Run River
100 Year Flood Plain Limit (Ho. Co. FP study)
Future Road Extension
Brookdale Road
50' Building and Use Setback Line
Prop. Auto Shop FF. Elev. 156.00
Storage
Paved
Area
STORM WATER MANAGEMENT FACILITY NO. 1
STORM WATER MANAGEMENT FACILITY NO. 2
Ex. 20' Water Main Esm't
Earth dike A-1
Stone Outlet
Silt Fence
Riprap
Top of Dam El. 138.00
STONE OUTLET SEDIMENT TRAP NO. 2
Drainage Area = 1.89 Ac.
Volume Required = 67 x 1.89 = 126.63 C.Y.
Volume Provided = 127.78 C.Y.
Bottom Elev. = 136.00
Storage Limit Elev. = 137.00
Stone Outlet Crest Elev. = 138.00
Earth Dike Elev. = 139.00
Length of Stone Outlet = 8'
Cleanout Elev. = 136.50
SEDIMENT BASIN NO. 1
Drainage Area = 8.50 Ac.
Volume Required = 67 x 8.50 = 569.50 C.Y.
Volume Provided = 796.06 C.Y.
Bottom Elev. = 136.00
Storage Limit Elev. = 141.37
Min. vol. before cleanout = 27 x 8.50 = 229.50
Cleanout Elev. = 138.19
Note: Sediment Basin No. 1 to be converted to Storm Water Management Facility No. 1.
SEDIMENT BASIN NO. 2
Drainage Area = 4.31 Ac.
Volume Required = 67 x 4.31 = 288.77
Volume Provided = 849.42 C.Y.
Bottom Elev. = 130.00
Storage Limit Elev. = 135.22
Min. vol. before cleanout = 27 x 4.31 = 116.37 CY
Cleanout elev. = 131.12
NOTE: Sediment Basin No. 2 to be converted to Storm Water Management Facility No. 2
APPROVED
DIVISION OF LAND DEVELOPMENT & ZONING ADMINISTRATION
HOWARD COUNTY, MARYLAND
DATE 7-11-85
Reviewed for Howard County S.C.D. and meets Technical Requirements.
U.S. Soil Conservation Service 8/8/85 Date
THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.
Howard S.C.D. 8-8-85 Date
NOTE: For Sediment Basin No. 1 and Sediment Basin No. 2 see Sheets 3 & 4 of 8 for profiles and details.
11-19-85 Art Changed building size
Date By Description

PURDUM & JESCHKE
CONSULTING ENGINEERS
LAND SURVEYORS
1023 North Calvert Street
Baltimore, Maryland 21202 301/837-0194

APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE, STORM DRAINAGE, AND ROAD.
HOWARD CO. DEPT. OF PUBLIC WORKS
[signature] 8-9-85
DIRECTOR DATE
[signature]
CHIEF, BUREAU OF ENGINEERING DATE

APPROVED: FOR PUBLIC WATER & PUBLIC SEWERAGE SYSTEMS.
HOWARD COUNTY HEALTH DEPARTMENT
[signature] 8-13-85
COUNTY HEALTH OFFICER DATE

APPROVED: HOWARD CO. OFFICE OF PLANNING & ZONING
[signature] 8-13-85
CHIEF, DIVISION OF LAND DEVELOPMENT & ZONING ADMIN. DATE
[signature] 8-13-85
PLANNING DIRECTOR DATE

DEVELOPER'S CERTIFICATION
I CERTIFY THAT ALL DEVELOPMENT & CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN AND ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT THE DEPT. OF NATURAL RESOURCES APPROVED TRAINING PROGRAM FOR THE CONTROL OF ANY SEDIMENT EROSION BEFORE BEGINNING THE PROJECT.
[signature] 4/5/85

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[signature] 4/5/85

STATE OF MARYLAND — No. 4575 — Professional Engineer & Land Surveyor

ANGLO AMERICAN ACQUISITION OF MARYLAND, INC.
BROOKDALE INDUSTRIAL PARK, PARCEL 116
SEDIMENT CONTROL PLAN
SOIL MAP & STORM DRAINAGE AREA MAP
FIRST ELECTION DISTRICT HOWARD COUNTY MD.
JANUARY 11, 1985 SCALE 1" = 40'

SHEET 6 OF 10
DES: ATR
DRW'N: TE
CHK: ATR

SDP-85-172

BRUNING ANE 1M3-2

CONSTRUCTION SPECIFICATIONS FOR PONDS

SITE PREPARATION

Areas under the borrow area, embankment, and structural works shall be cleared, grubbed and the topsoil stripped to remove all trees, vegetation, roots or other objectionable material. Channel banks and sharp breaks shall be sloped to no steeper than 1:1.

Areas covered by the pond or reservoir will be cleared of all trees, brush, logs, fences, rubbish and other objectionable material unless otherwise designated on the plans. Trees, brush and stumps shall be cut approximately level with the ground surface.

All cleared and grubbed material shall be disposed of outside the limits of the dam and reservoir as directed by the owner of his representative. When specified, a sufficient quantity of topsoil will be stockpiled in a suitable location for use on the embankment and other designated areas.

EARTH FILL

Material

The fill material shall be taken from approved designated borrow area or areas. It shall be free of roots, stumps, wood, rubbish, oversize stones, frozen or other objectionable materials. The embankment shall be constructed to an elevation which provides for anticipated settlement to the design elevation. The fill height all along the length of the embankment shall be increased above the design elevation (including freeboard) as shown on the plans.

Placement

Areas on which fill is to be placed shall be scarified prior to placement of fill. Fill materials shall be placed in 8-inch maximum thickness (before compaction) layers which are to be continuous over the entire length of the fill. The most porous borrow material shall be placed in the downstream portions of the embankment.

Compaction

The movement of the hauling and spreading equipment over the fill shall be controlled so that the entire surface of each lift shall be traversed by not less than one tread track of the equipment or compaction shall be achieved by a minimum of four complete passes of a sheepsfoot, rubber tired or vibratory roller. Fill material shall contain sufficient moisture such that the required degree of compaction can be obtained with the equipment used.

Cutoff Trench

Where specified, a cutoff trench shall be excavated along or parallel to the centerline of the embankment as shown on the plans. The bottom width of the trench shall be governed by the equipment used for excavation, with the minimum width being four feet. The depth shall be at least four feet or as shown on the plans. The side slopes of the trench shall be 1 to 1 or flatter. The backfill material for the cutoff trench shall be the most imporvious material available and shall be compacted with equipment or rollers to assure maximum density and minimum peimeability.

PIPE CONDUITS

A. Corrugated Metal Pipe

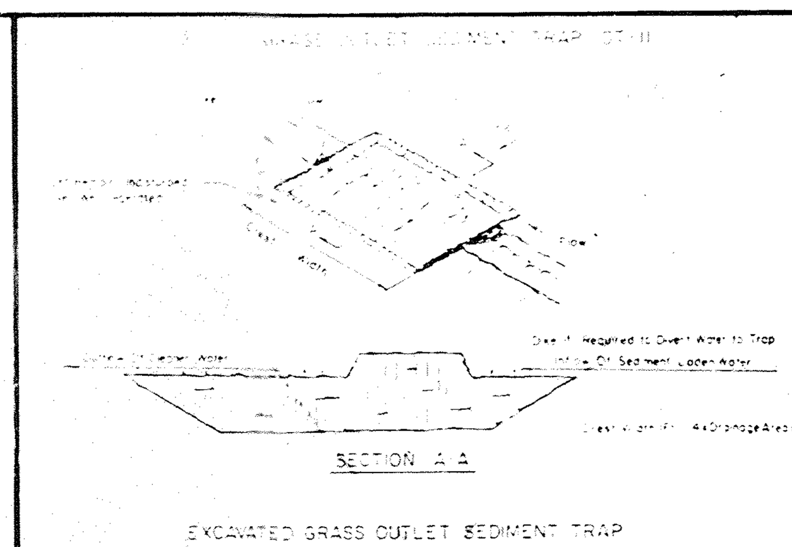
1. Materials - This pipe and its appurtenances shall be galvanized and fully bituminous coated and shall conform to the requirements of AASHTO Specification M-190 Type A with watertight coupling bands. Any bituminous coating damaged or otherwise removed shall be replaced with cold applied bituminous coating compound.
2. Connections - All connections with pipes must be completely watertight. The drain pipe or barrel connection to the riser shall be welded all around when the pipe and riser are metal. Watertight coupling bands shall be used at all joints. Anti-seep collars shall be connected to the pipe in such a manner as to be completely watertight.
3. Bedding - The pipe shall be firmly and uniformly bedded throughout its entire length. Where rock or soft, spongy or other unstable soil is encountered all such material shall be removed and replaced with suitable earth compacted to provide adequate support.
4. Laying Pipe - The pipe shall be placed with inside circumferential laps pointing downstream and with the longitudinal laps at the sides.
5. Backfilling shall conform to structural backfill as shown above.
6. Other details (anti-seep collars, valves, etc.) shall be as shown on the drawings.

STABILIZATION

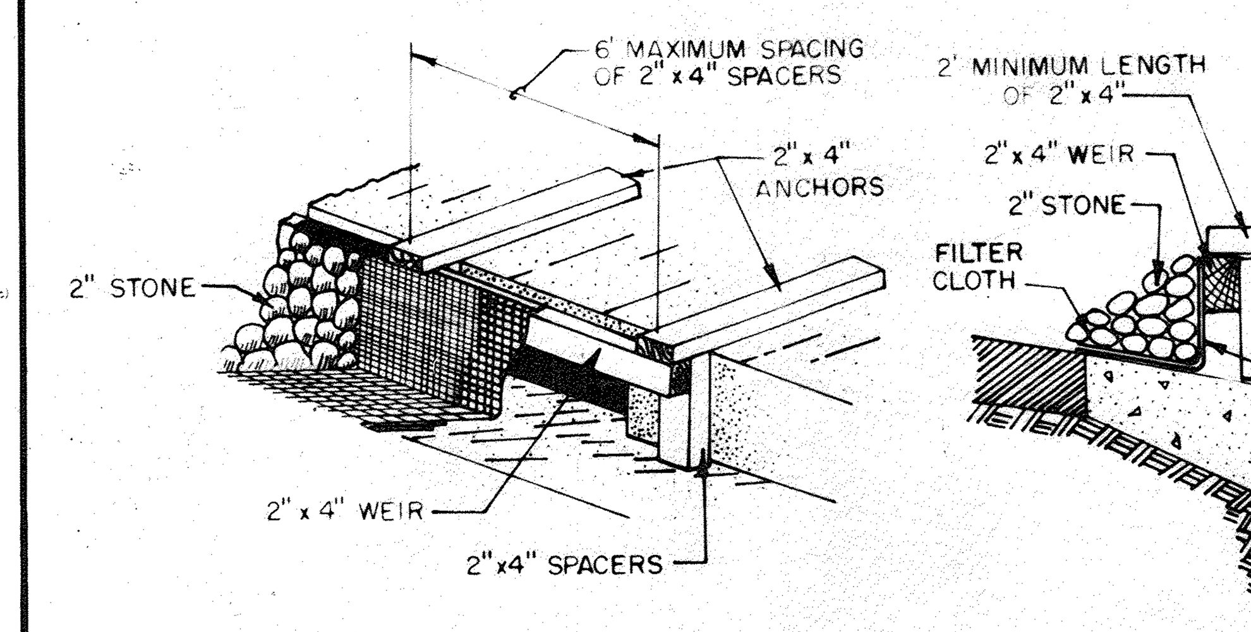
All borrow areas shall be graded to provide proper drainage and left in a sightly condition. All exposed surfaces of the embankment, spillway, spoil and borrow areas, and berms shall be stabilized by seeding, fertilizing and mulching (if required) in accordance with the vegetative treatment specifications shown on or accompanying the drawings.

CONCRETE

Concrete shall meet minimum requirements set forth in Maryland State Highway Administration Standard Specifications for Construction & Materials, Section 918, (Portland Cement Concrete Mixtures), Mix No. 2.

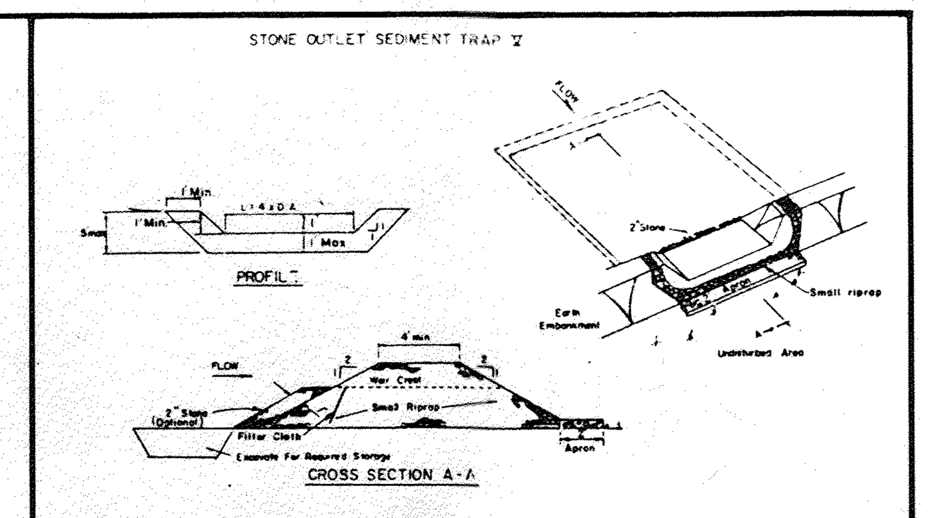


Maximum Drainage Area: 5 Acres



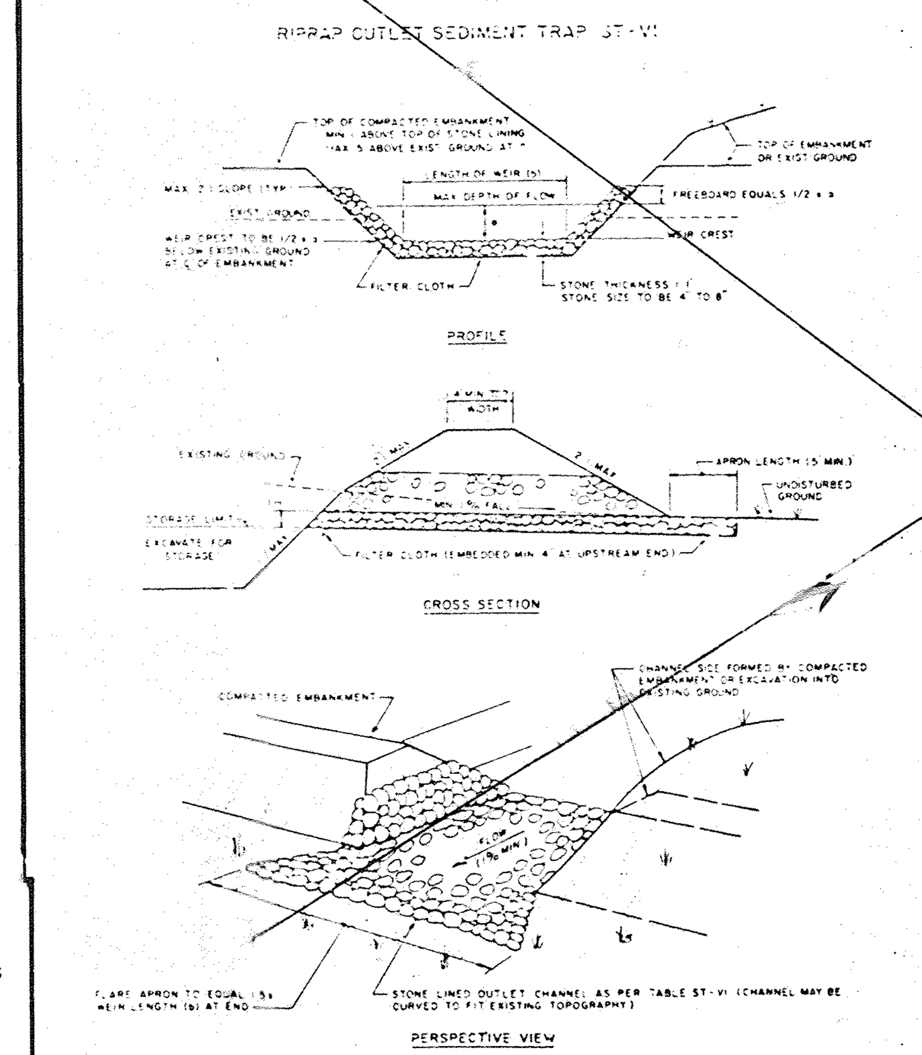
CURB INLET PROTECTION DETAIL

STONE OUTLET SEDIMENT TRAP



Maximum Drainage Area: 5 Acres

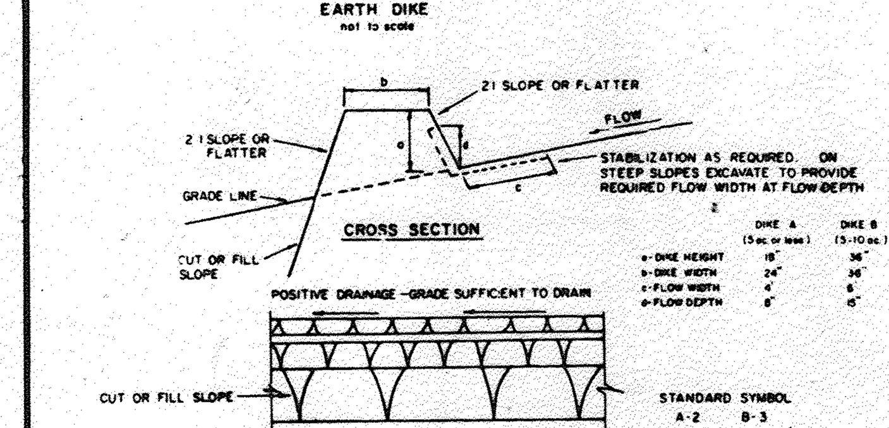
RIPRAP OUTLET SEDIMENT TRAP ST-VI



CONSTRUCTION SPECIFICATIONS FOR ST-VI

1. The 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 or other woody vegetation as well as over-sized stones, rocks, organic material or other objectionable material. The embankment shall be compacted by traversing with equipment while it is being constructed. Maximum height of embankment shall be five (5) feet, measured at centerline of embankment.
3. All fill slopes shall be 2:1 or flatter; cut slopes 1:1 or flatter.
4. Elevation of the top of any dike directing water into trap must equal or exceed the height of embankment.
5. Storage area provided shall be figured by computing the volume available behind the outlet channel up to an elevation of one (1) foot below the level weir crest.
6. Filter cloth shall be placed over the bottom and sides of the outlet channel prior to placement of stone. Sections of fabric must overlap at least one (1) foot with section nearest the entrance placed on top. Fabric shall be embedded at least six (6) inches into existing ground at entrance of outlet channel.
7. Stone used in the outlet channel shall be four (4) to eight(8) inches (riprap). To provide a filtering effect, a layer of filter cloth shall be embedded one (1) foot back into the upstream face of the outlet stone or a one (1) foot thick layer of two (2) inch or finer aggregate shall be placed on the upstream face of the outlet.
8. Sediment shall be removed and trap restored to its original dimensions when the sediment has accumulated to 1/2 the design depth of the trap. Removed sediment shall be deposited in a suitable area and in such a manner that it will not erode.
9. The structure shall be inspected after each rain and repaired as needed.
10. Construction operations shall be carried out in such a manner that erosion and water pollution are minimized.
11. The structure shall be removed and the area stabilized when the drainage area has been properly stabilized.
12. Drainage area for this practice is limited to 15 acres or less.

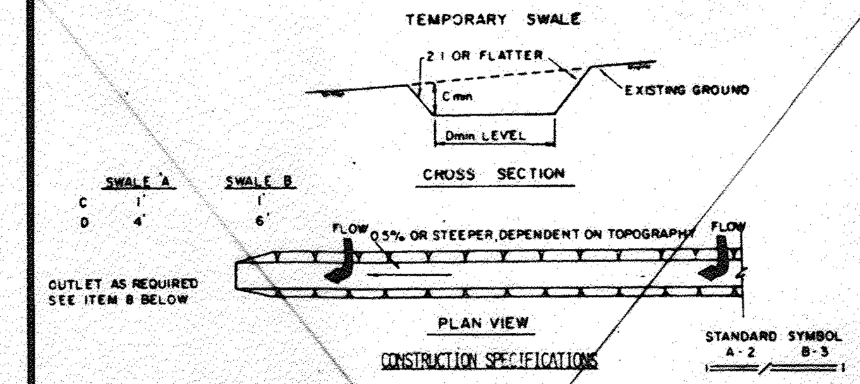
EARTH DIKE



CONSTRUCTION SPECIFICATIONS

FLOW CHANNEL STABILIZATION

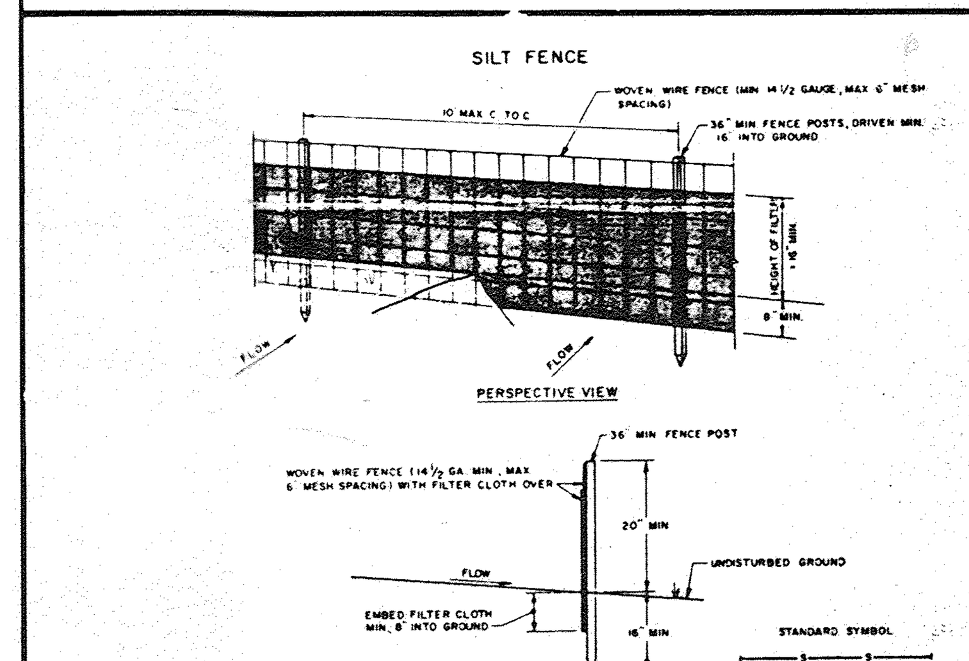
TEMPORARY SWALE



CONSTRUCTION SPECIFICATIONS

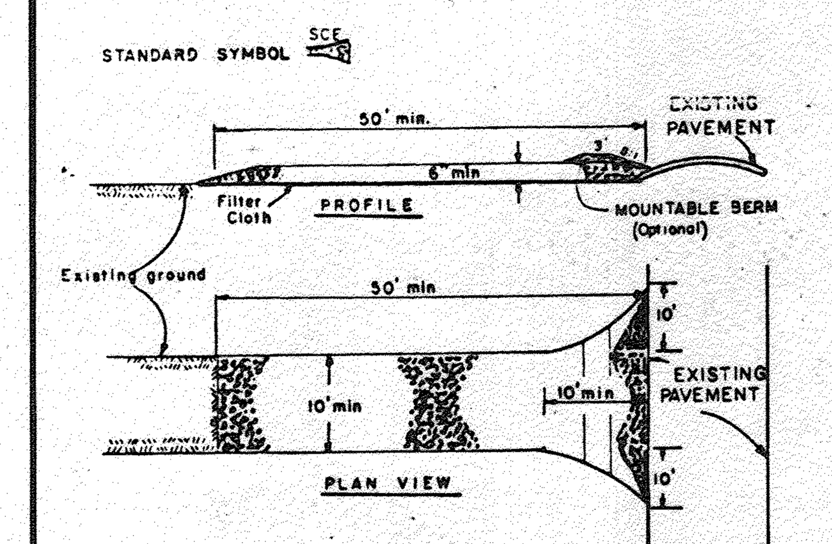
FLOW CHANNEL STABILIZATION

SILT FENCE



CONSTRUCTION NOTES FOR FABRICATED SILT FENCE

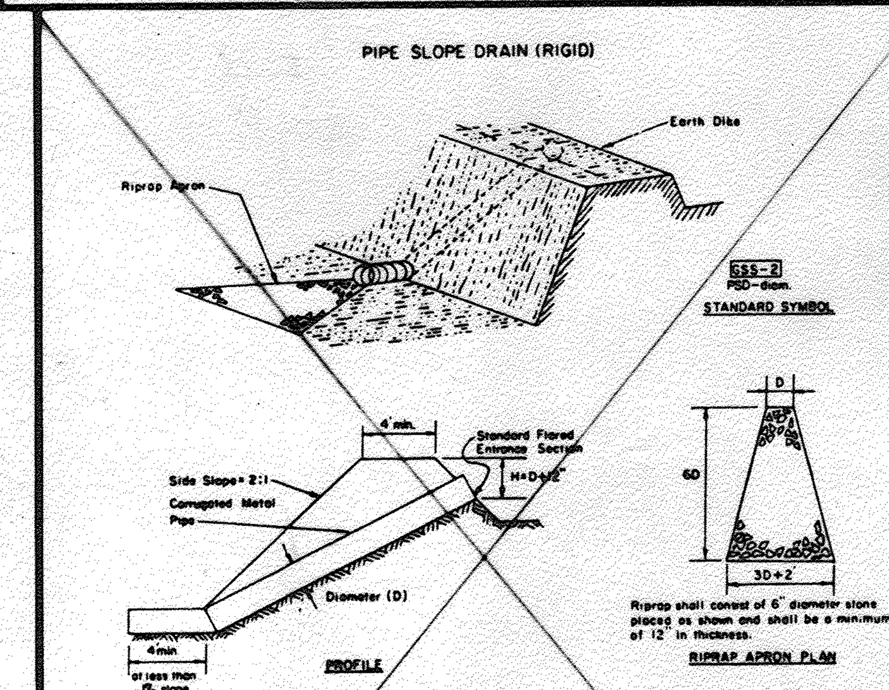
STABILIZED CONSTRUCTION ENTRANCE
not to scale



CONSTRUCTION SPECIFICATIONS

1. Stone Size - Use 2" stone, or reclaimed or recycled concrete equivalent.
2. Length - As required, but not less than 50 feet (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.

PIPE SLOPE DRAIN (RIGID)

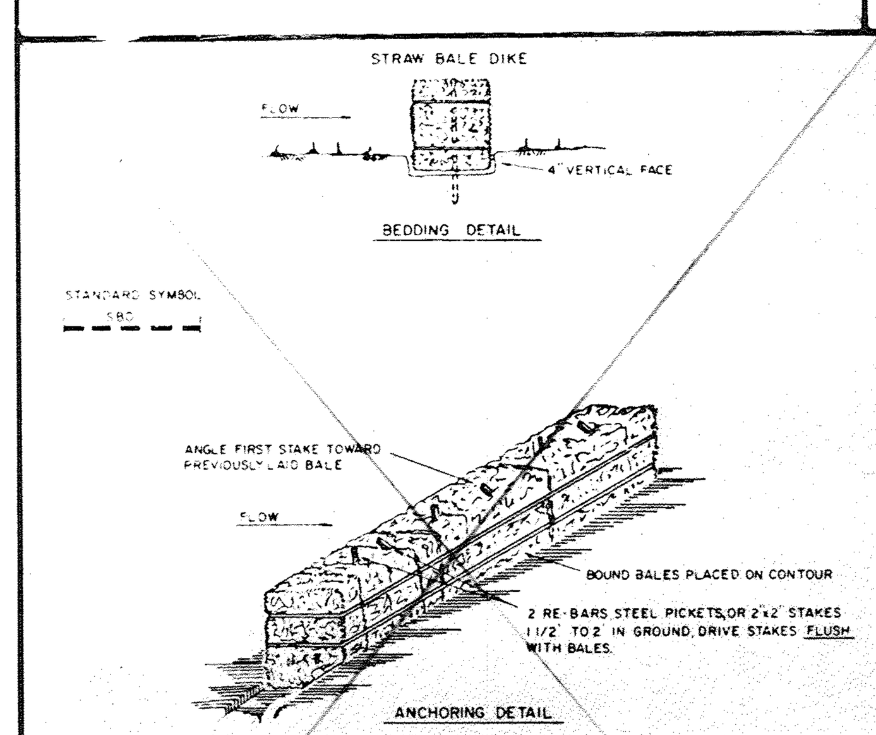


CONSTRUCTION SPECIFICATIONS

1. The pipe slope drain shall have a slope of 3% or steeper.
2. Top of the earth dike over the inlet pipe and all dikes carrying water to the pipe shall be at least one foot higher than the top of the pipe.
3. Add 0.3 foot to dike height for settlement.
4. Soil around and under the slope pipe shall be hand tamped in 4 inch lifts.
5. The pipe shall be corrugated metal pipe with watertight 12 inch connecting bands or flange connections.
6. Rip-Rap to be 4-8 inches in a layer at least 8 inches thickness and pressed into the soil.
7. Periodic inspection and required maintenance must be provided after each rain event.

Maximum Drainage Area: 5 Acres

STRAW BALE DIKE



CONSTRUCTION SPECIFICATIONS

THESE PLANS HAVE BEEN REVIEWED FOR THE HOWARD SOIL CONSERVATION DISTRICT AND MEET THE TECHNICAL REQUIREMENTS FOR SMALL POND CONSTRUCTION, SOIL EROSION AND SEDIMENT CONTROL.

James M. Hel... 8/8/85
U.S. SOIL CONSERVATION SERVICE — DATE

THESE PLANS FOR SMALL POND CONSTRUCTION, SOIL EROSION AND SEDIMENT CONTROL MEET THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.

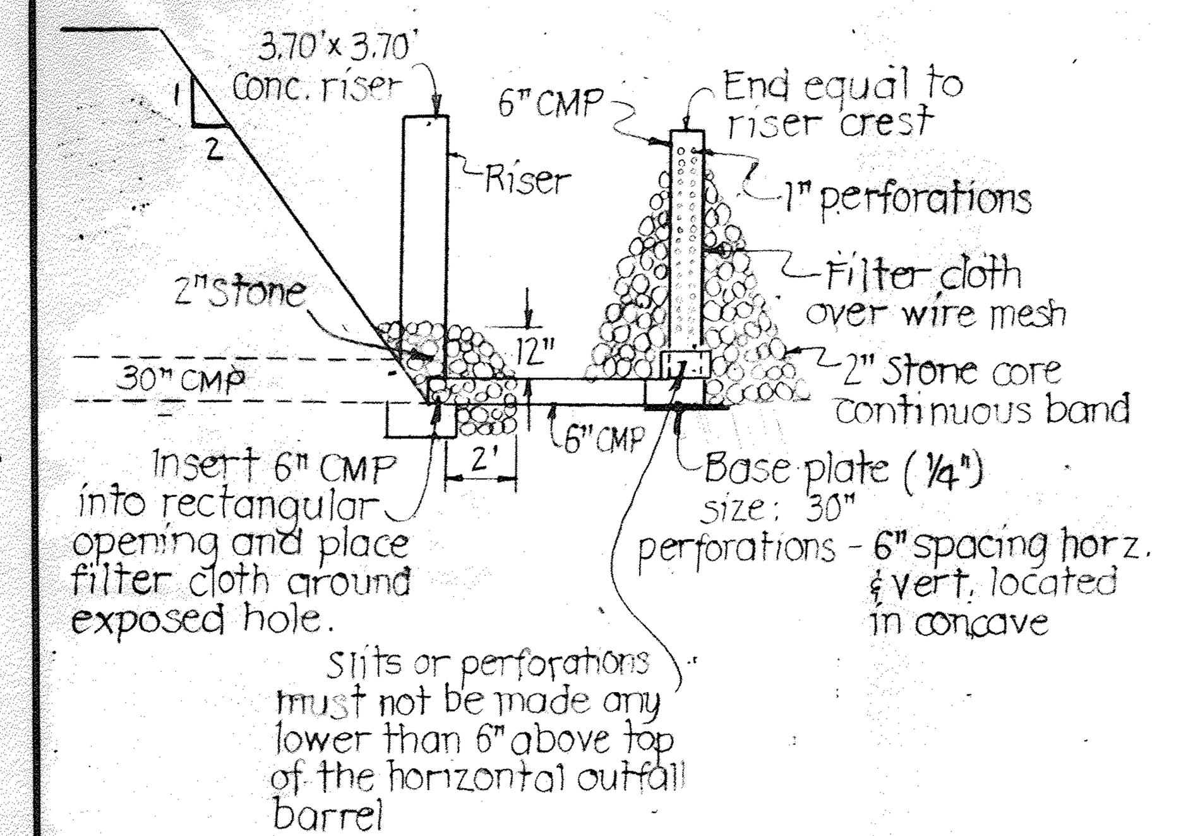
Robert W. Ziehm 8/8/85
HOWARD SOIL CONSERVATION DISTRICT — DATE

Note: A minimum of 24 hours notice must be given to the Ho. Co. Office of Inspection and Permits prior to the start of any construction. (992-2437)

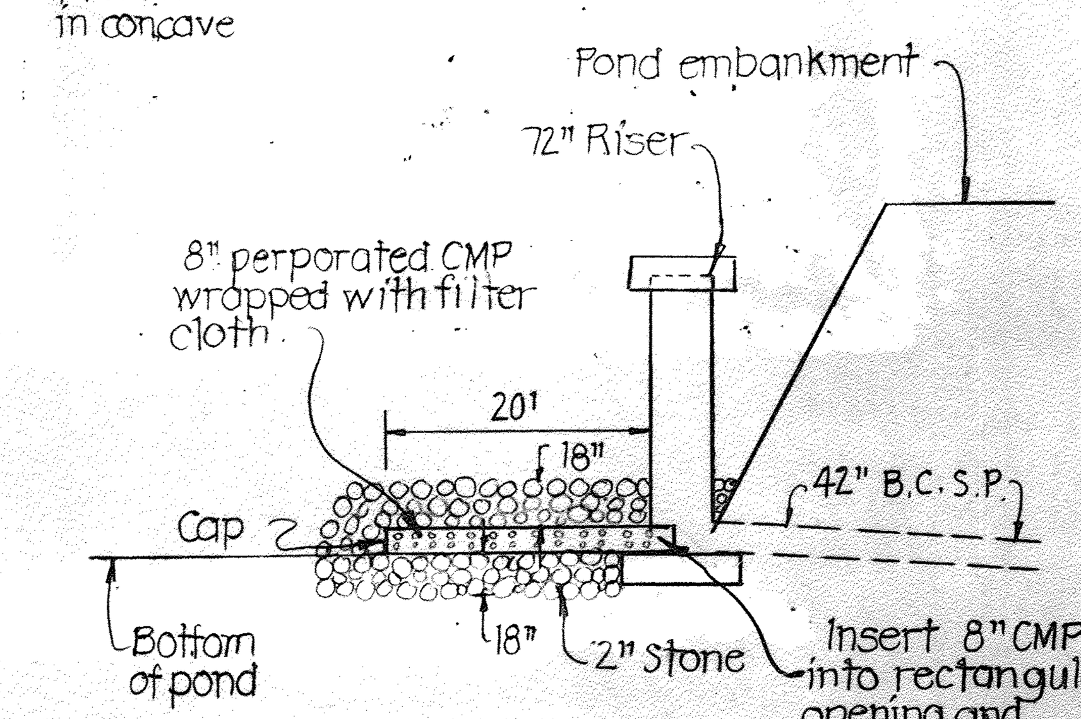
SITE ANALYSIS:

Total Area of Site:	104.94 Acres
Area Disturbed:	14.156 Acres
Area to be roofed or paved:	12.656 Acres
Area to be Vegetatively stabilized:	1.50 Acres
Total Cut:	37.237 C.Y.
Total Fill:	33.763 C.Y.
Offsite waste/borrow area location:	None

APPROVED
DIVISION OF LAND DEVELOPMENT & ZONING ADMINISTRATION
HOWARD COUNTY, MARYLAND
DATE 7-11-85



SEDIMENT BASIN NO. 2
Dewatering Device



SEDIMENT BASIN NO. 1
Dewatering Device

PERMANENT SEEDING NOTES

Apply to graded or cleared areas not subject to immediate further disturbance where a permanent long-lived vegetative cover is needed.

Seedbed Preparation: Loosen upper three inches of soil by raking, discing or other acceptable means before seeding.

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

1) Preferred - Apply 2 tons per acre dolomitic limestone (92 lbs/1000 square ft) and 600 lbs per acre 10-10-10 fertilizer (14 lbs/1000 sq ft) before seeding. Harrow or disc into upper three inches of soil. At time of seeding, apply 400 lbs per acre 30-0-0 ureaform fertilizer (9 lbs/1000 sq ft).

2) Acceptable - Apply 2 tons per acre dolomitic limestone (92 lbs/1000 sq ft) and 1000 lbs per acre 10-10-10 fertilizer (23 lbs/1000 sq ft) before seeding. Harrow or disc into upper three inches of soil.

Seeding - For the periods March 1 thru April 30, and August 1 thru October 15, seed with 60 lbs per acre (1.4 lbs/1000 sq ft) of Kentucky 31 Tall Fescue. For the period May 1 thre 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.

Matinenance - Inspect all seeded areas and make needed repairs, replacements and reseedings.

TEMPORARY SEEDING NOTES

Apply to graded or cleared areas likely to be redisturbed where a short-term vegetative cover is needed.

Seedbed Preparation: Loosen upper three inches of soil by raking, discing or other acceptable means before seeding.

Soil Amendments: Apply 600 lbs per acre 10-10-10 fertilizer (14 lbs/1000 sq ft)

Seeding: For periods March 1 thru April 30 and from August 15 thru November 15, seed with 2½ bushel per acre of annual rye (3.2 lbs/1000 sq ft). For the period May 1 thru August 14, seed with 3 lbs per acre of weeping lovegrass (.07 lbs/1000 sq ft). For the period November 16 thru February 28, protect site by applying 2 tons per acre of well anchored straw mulch and seed as soon as possible in the spring, or use sod.

Mulching: Apply 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 gal per acre (5 gal/1000 sq ft) of emulsified asphalt on flat areas. On slopes, 8 ft or higher, use 348 gal per acre (8 gal/1000 sq ft) for anchoring.

Refer to the 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL for rate and methods not covered.

GENERAL NOTES

1. Following initial soil disturbance or redisturbance, permanent or temporary stabilization shall be completed within:
   1) Seven calendar days for all perimeter sediment control structures, dikes, perimeter slopes and all slopes greater than 3:1,
   2) Fourteen days as to all other disturbed or graded areas on the project site.
2. All sediment traps shown must be fenced and warning signs posted around their perimeter in accordance with Vol. I, Chapter 12, of the HOWARD COUNTY DESIGN MANUAL, Storm Drainage.
3. 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.
4. 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.
5. 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.
6. Any sediment control practice which is disturbed by grading activity for placement of utilities must be repaired on the same day of disturbance.
7. Additional sediment controls must be provided, if deemed necessary by the Howard County D.P.W. sediment control inspector.
8. 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.
9. 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.

PURDUM & JESCHKE
CONSULTING ENGINEERS
LAND SURVEYORS
1023 North Calvert Street
Baltimore, Maryland 21202 301/837-0194

APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE, STORM DRAINAGE, AND ROAD.
HOWARD CO. DEPT. OF PUBLIC WORKS
8-9-85 DIRECTOR
8/9/85 CHIEF, BUREAU OF ENGINEERING — DATE

APPROVED: FOR PUBLIC WATER & PUBLIC SEWERAGE SYSTEMS.
HOWARD COUNTY HEALTH DEPARTMENT
8-13-8 COUNTY HEALTH OFFICER — DATE

APPROVED: HOWARD CO. OFFICE OF PLANNING & ZONING
8-13-85 CHIEF, DIVISION OF LAND DEVELOPMENT & ZONING ADMIN. — DATE
Thomas G. Harris 8-13-85 PLANNING DIRECTOR — DATE

DEVELOPER'S CERTIFICATION

I CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN AND ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT THE DEPARTMENT OF NATURAL RESOURCES APPROVED TRAINING PROGRAM FOR THE CONTROL OF ANY SEDIMENT EROSION BEFORE BEGINNING THE PROJECT. I WILL PROVIDE THE HOWARD SOIL CONSERVATION DISTRICT WITH AN "AS-BUILT" PLAN OF THE POND WITHIN 30 DAYS OF COMPLETION.
8/5/85

ENGINEER'S CERTIFICATION

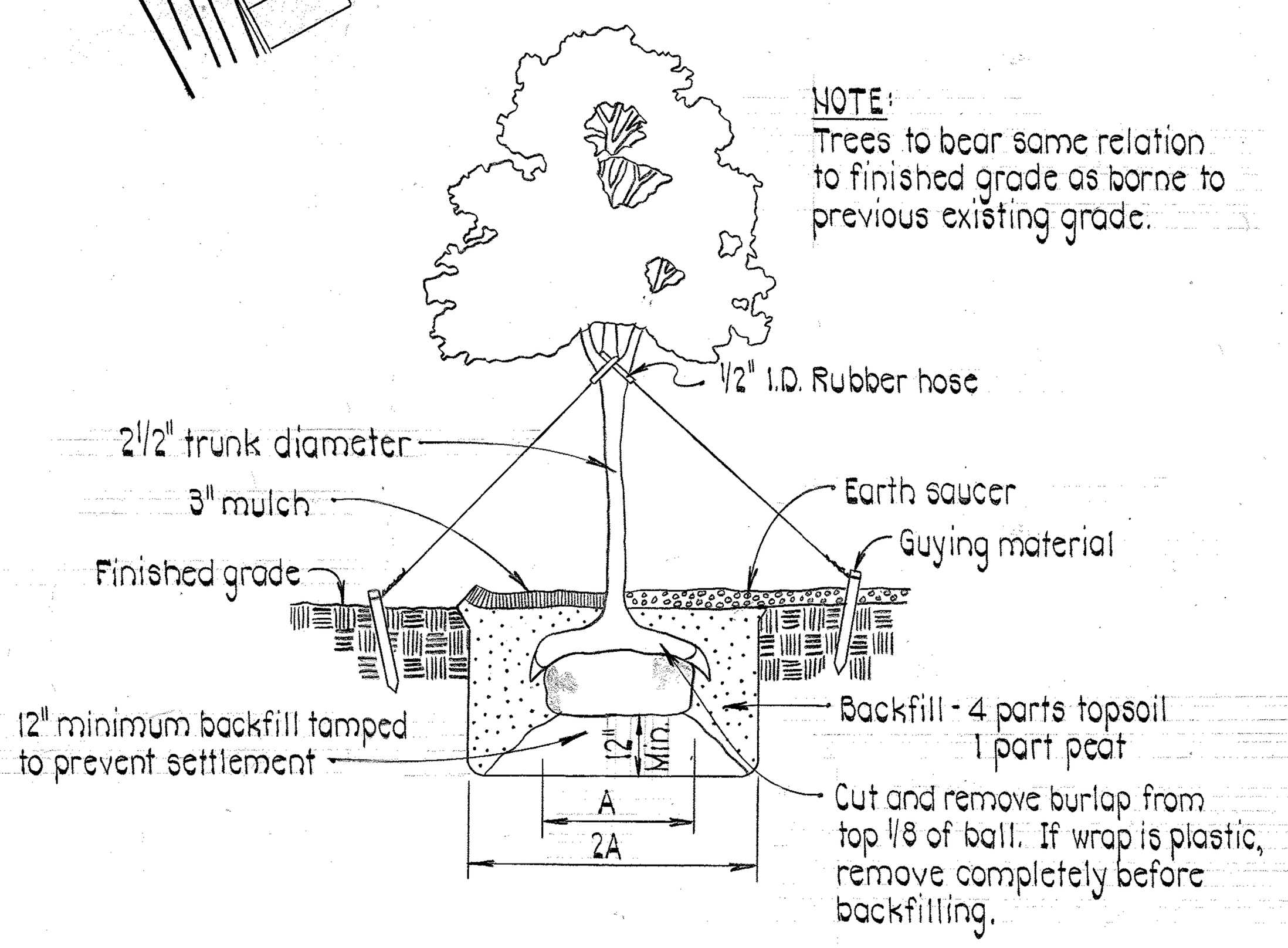
I CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT. I HAVE NOTIFIED THE DEVELOPER THAT HE MUST PROVIDE THE HOWARD SOIL CONSERVATION DISTRICT WITH AN AS BUILT PLAN OF THE POND WITHIN 30 DAYS OF COMPLETION.
William Rasch 5/15/85

ANGLO AMERICAN ACQUISITION OF MARYLAND INC.
BROOKDALE INDUSTRIAL PARK, PARCEL 116
SEDIMENT CONTROL DETAILS
& POND CONSTRUCTION SPECIFICATIONS
FIRST ELECTION DISTRICT HOWARD COUNTY MD.
JANUARY 11, 1985 SCALE 1" = 40'

SHEET 7 OF 8
DES: ATR
DRW'N: TE
CHK: ATR

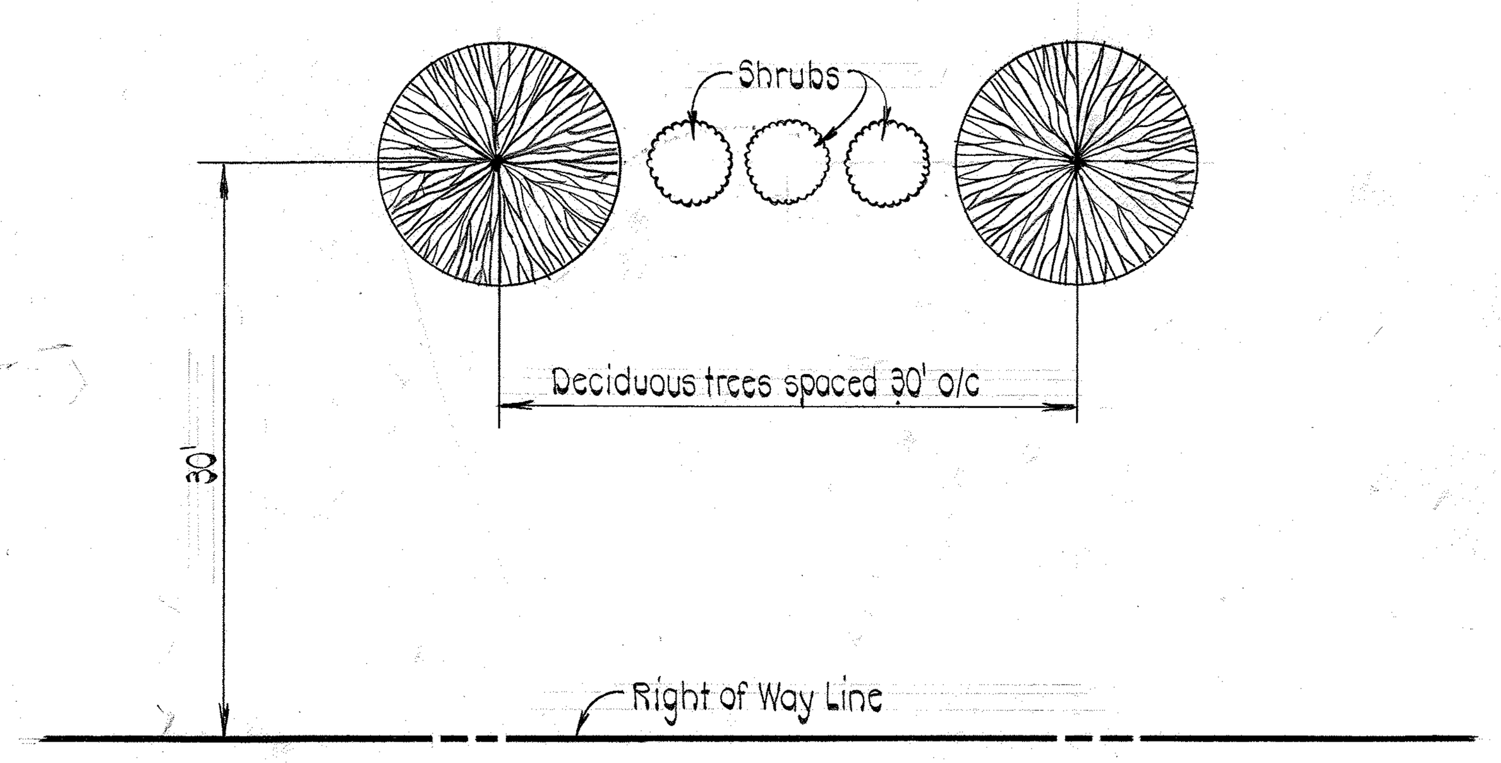
SDP-85-172

BRUNING ANE 1M3-2



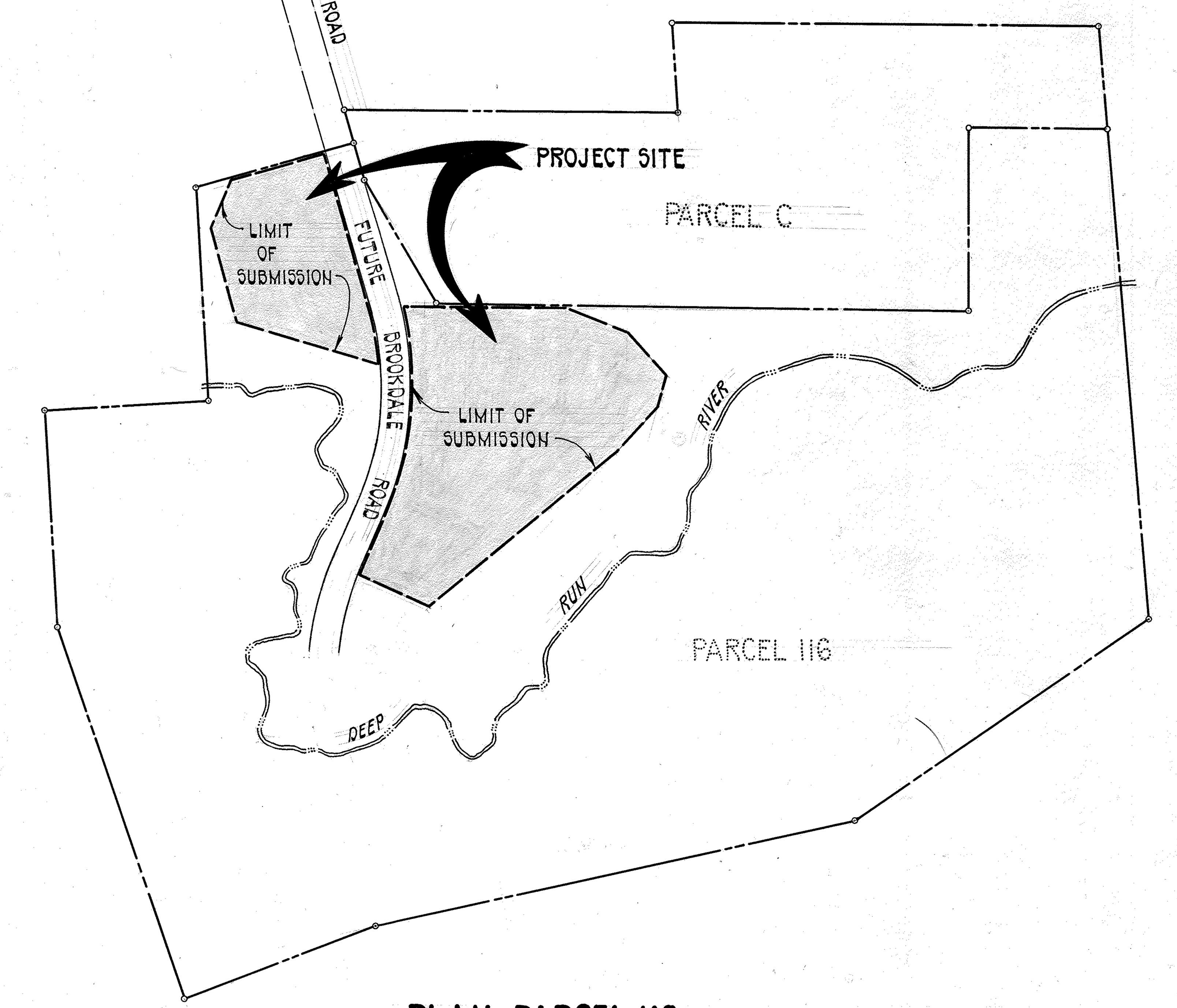
DECIDUOUS TREE PLANTING DETAIL

Not to Scale



LANDSCAPED AREAS

Not to Scale



PLAN - PARCEL 116

Scale: 1" = 300'

APPROVED
DIVISION OF LAND DEVELOPMENT & ZONING ADMINISTRATION
HOWARD COUNTY, MARYLAND
DATE 7-11-85

Reviewed for Howard Soil Conservation District and meets technical requirements.
U.S. Soil Conservation District — Date 8/8/85

This Development Plan is approved for soil erosion and sediment control by the Howard Soil Conservation District.
Howard Soil Conservation District — Date 8/8/85

PURDUM & JESCHKE
CONSULTING ENGINEERS
LAND SURVEYORS
1023 North Calvert Street
Baltimore, Maryland 21202 301/837-0194

APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE, STORM DRAINAGE, AND ROAD.
HOWARD COUNTY DEPT. OF PUBLIC WORKS
DIRECTOR — DATE
CHIEF, BUREAU OF ENGINEERING — DATE

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS.
HOWARD COUNTY HEALTH DEPARTMENT
COUNTY HEALTH OFFICER — DATE 8-13-85

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING.
CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION — DATE 8-13-85
PLANNING DIRECTOR — DATE 8-13-85

DEVELOPER'S CERTIFICATION
I CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN AND ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT THE DEPARTMENT OF NATURAL RESOURCES APPROVED TRAINING PROGRAM FOR THE CONTROL OF ANY SEDIMENT EROSION BEFORE BEGINNING THE PROJECT.
DATE 8/5/85

ENGINEER'S CERTIFICATION
I CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.
WILLIAM G. RASCH, II — NO. 4575 — DATE 5/13/85

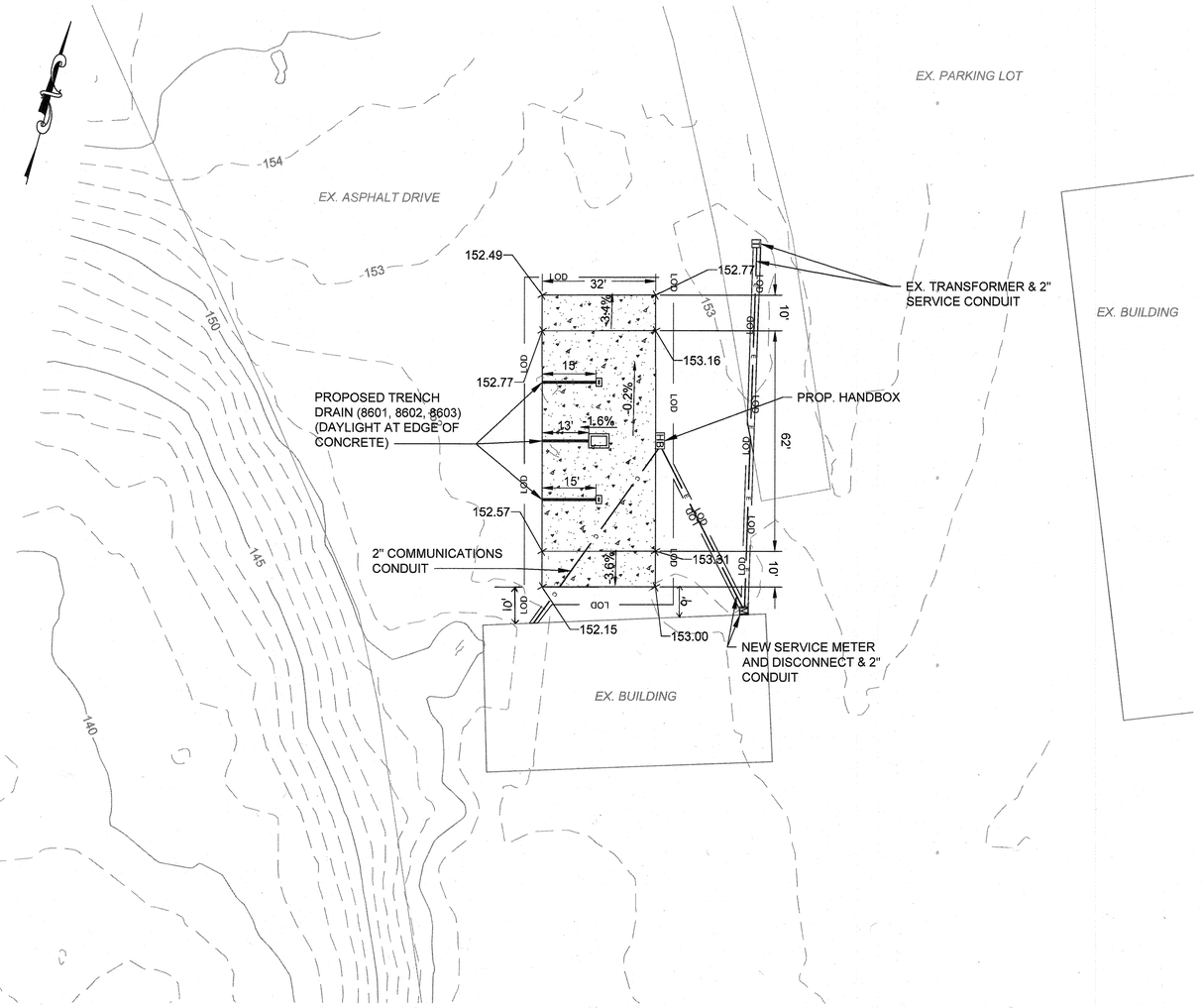
STATE OF MARYLAND — Professional Engineer & Land Surveyor — No. 4575

ANGLO AMERICAN ACQUISITION OF MARYLAND INC.
BROOKDALE INDUSTRIAL PARK, PARCEL 116
LANDSCAPING PLAN AND DETAILS
PLAN OF ENTIRE PARCEL 116
FIRST ELECTION DISTRICT — HOWARD COUNTY, MD.
SCALE: 1" = 40'

SHEET 8 OF 10
DES: A.T.R.
DRW'N: A.R.W.
CHK: A.T.R.

SDP-85-172

BRUNING ANE 1M3-2



LEGEND

- 175 — EXISTING CONTOURS
- 178.02 — SPOT ELEVATION
- PROPOSED CONCRETE
- 5% — SLOPE
- LOD — LIMIT OF DISTURBANCE
- E — E — 2" ELECTRIC CONDUIT
- C — C — 2" COMMUNICATIONS CONDUIT

GENERAL NOTES

1. THE TOPOGRAPHIC INFORMATION SHOWN HEREON, WAS OBTAINED FROM NEARMAP. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY ACTUAL SITE CONDITIONS PRIOR TO THE START OF ANY WORK. THERE IS NO WARRANTY OR GUARANTEE ON THE COMPLETENESS OR CORRECTNESS OF THE EXISTING CONDITION INFORMATION. ANY DISCREPANCY FOUND SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE ENGINEER PRIOR TO THE START OF ANY WORK.
2. BEARINGS, COORDINATES AND ELEVATIONS SHOWN ON THIS PLAN ARE SHOWN IN MARYLAND STATE PLANE. ALL VERTICAL CONTROLS ARE BASED ON NAVD 88.
3. ALL WORK MUST BE IN COMPLIANCE WITH THE HOWARD COUNTY VOLUME IV DESIGN MANUAL (STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION).

HOWARD COUNTY STANDARD SEDIMENT CONTROL NOTES

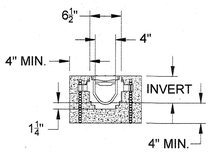
1. ALL VEGETATIVE AND STRUCTURAL PRACTICES ARE TO BE INSTALLED ACCORDING TO THE PROVISIONS OF THIS PLAN AND ARE TO BE IN CONFORMANCE WITH THE 2011 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL, AND REVISIONS THERETO.
2. FOLLOWING INITIAL SOIL DISTURBANCE OR RE-DISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION IS REQUIRED WITHIN THREE (3) CALENDAR DAYS AS TO THE SURFACE OF ALL PERIMETER CONTROLS, DIKES, SWALES, DITCHES, PERIMETER SLOPES, AND ALL SLOPES STEEPER THAN 3 HORIZONTAL TO 1 VERTICAL (3:1); AND SEVEN (7) CALENDAR DAYS AS TO ALL OTHER DISTURBED AREAS ON THE PROJECT SITE EXCEPT FOR THOSE AREAS UNDER ACTIVE GRADING.
3. ALL DISTURBED AREAS MUST BE STABILIZED WITHIN THE TIME PERIOD SPECIFIED ABOVE IN ACCORDANCE WITH THE 2011 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL FOR TOPSOIL (SEC. B-4-2), PERMANENT SEEDING (SEC. B-4-5), TEMPORARY SEEDING (SEC. B-4-4) AND MULCHING (SEC. B-4-3). TEMPORARY STABILIZATION WITH MULCH ALONE CAN ONLY BE APPLIED BETWEEN THE FALL AND SPRING SEEDING DATES IF THE GROUND IS FROZEN. INCREMENTAL STABILIZATION (SEC. B-4-1) SPECIFICATIONS SHALL BE ENFORCED IN AREAS WITH >15' OF CUT AND/OR FILL. STOCKPILES (SEC. B-4-8) IN EXCESSOF 20 FT. MUST BE BENCHED WITH STABLE OUTLET. ALL CONCENTRATED FLOW, STEEP SLOPE, AND HIGHLY ERODIBLE AREAS SHALL RECEIVE SOIL STABILIZATION MATTING (SEC. B-4-6).
4. 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 CID.
5. SITE ANALYSIS:
   - *TOTAL AREA OF SITE: 0.096 ACRES
   - *AREA DISTURBED: 0.096 ACRES
   - *AREA TO BE ROOFED OR PAVED: 0.093 ACRES
   - *AREA TO BE VEGETATIVELY STABILIZED: 0.003 ACRES
   - *TOTAL CUT: 93 CU. YDS.
   - *TOTAL FILL: 5 CU. YDS.
   - OFFSITE WASTE/BORROW AREA LOCATION: TO BE DETERMINED BY CONTRACTOR.
6. ANY SEDIMENT CONTROL PRACTICE WHICH IS DISTURBED BY GRADING ACTIVITY FOR PLACEMENT OF UTILITIES MUST BE REPAIRED ON THE SAME DAY OF DISTURBANCE.
7. ADDITIONAL SEDIMENT CONTROL MUST BE PROVIDED, IF DEEMED NECESSARY BY OWNER. THE SITE AND ALL CONTROLS SHALL BE INSPECTED BY THE CONTRACTOR WEEKLY; AND THE NEXT DAY AFTER EACH RAIN EVENT. A WRITTEN REPORT BY THE CONTRACTOR, MADE AVAILABLE UPON REQUEST, IS
   PART OF EVERY INSPECTION AND SHOULD INCLUDE:
   - INSPECTION DATE
   - INSPECTION TYPE (ROUTINE, PRE-STORM EVENT, DURING RAIN EVENT)
   - NAME AND TITLE OF INSPECTOR
   - WEATHER INFORMATION (CURRENT CONDITIONS AS WELL AS TIME AND AMOUNT OF LAST RECORDED PRECIPITATION)
   - BRIEF DESCRIPTION OF PROJECT'S STATUS (E.G., PERCENT COMPLETE) AND/OR CURRENT ACTIVITIES
   - EVIDENCE OF SEDIMENT DISCHARGES
   - IDENTIFICATION OF PLAN DEFICIENCIES
   - IDENTIFICATION OF SEDIMENT CONTROLS THAT REQUIRE MAINTENANCE
   - IDENTIFICATION OF MISSING OR IMPROPERLY INSTALLED SEDIMENT CONTROLS
   - COMPLIANCE STATUS REGARDING THE SEQUENCE OF CONSTRUCTION AND STABILIZATION REQUIREMENTS
   - PHOTOGRAPHS
   - MONITORING/SAMPLING
   - MAINTENANCE AND/OR CORRECTIVE ACTION PERFORMED
   - OTHER INSPECTION ITEMS AS REQUIRED BY THE GENERAL PERMIT FOR STORMWATER ASSOCIATED WITH CONSTRUCTION ACTIVITIES (NPDES, MDE).
8. TRENCHES FOR THE CONSTRUCTION OF UTILITIES IS LIMITED TO THREE PIPE LENGTHS OR THAT WHICH CAN AND SHALL BE BACK-FILLED AND STABILIZED BY THE END OF EACH WORKDAY, WHICHEVER IS SHORTER.
9. DISTURBANCE SHALL NOT OCCUR OUTSIDE THE L.O.D.
10. WASH WATER FROM ANY EQUIPMENT, VEHICLES, WHEELS, PAVEMENT, AND OTHER SOURCES MUST BE TREATED IN A SEDIMENT BASIN OR OTHER APPROVED WASHOUT STRUCTURE.
11. TOPSOIL SHALL BE STOCKPILED AND PRESERVED ON-SITE FOR REDISTRIBUTION ONTO FINAL GRADE.
12. A COPY OF THIS PLAN, THE 2011 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL, AND ASSOCIATED PERMITS SHALL BE ON-SITE AND AVAILABLE WHEN THE SITE IS ACTIVE.

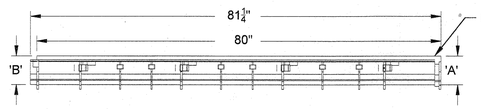
SITE & UTILITY PLAN GENERAL NOTES

1. THE CONTRACTOR SHALL FIELD VERIFY HORIZONTAL AND VERTICAL LOCATIONS OF EXISTING UTILITIES PRIOR TO STARTING WORK AND SHALL NOTIFY THE ENGINEER OF ANY DISCREPANCIES THAT EXIST.
2. ALL EXISTING UTILITY SURFACE FEATURES INCLUDING BUT NOT LIMITED TO INLETS, MANHOLES, HAND HOLES, MECHANICAL LIDS, FIRE HYDRANTS, VALVE BOXES, ETC. WITHIN THE LIMITS OF DISTURBANCE TO BE ADJUSTED TO FINISHED GRADE UNLESS OTHERWISE NOTED.
3. ALL EXISTING FEATURES OUTSIDE OF THE LIMITS OF DISTURBANCE ARE TO REMAIN, UNLESS OTHERWISE NOTED.
4. ALL CUTS OF EXISTING PAVEMENT SHALL BE NEAT AND IN A STRAIGHT LINE TO FACILITATE NEW PAVING. CONTRACTOR SHALL REMOVE TWO FEET OF THE SURFACE COURSE OF PAVEMENT (2" DEPTH) BEYOND ANY SAW CUTS TO OVERLAP PAVEMENT PATCHES.
5. CONTRACTOR TO PROTECT EXITING UTILITIES TO REMAIN WITHIN LOD DURING CONSTRUCTION.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING "MISS UTILITY" AT 1-800-257-7777 THREE DAYS PRIOR TO THE START OF ANY EXCAVATION WORK.
7. THE CONTRACTOR SHALL MAINTAIN TRAFFIC AT ALL TIMES.
8. CONTRACTOR SHALL PROVIDE POSITIVE DRAINAGE AWAY FROM ALL EXISTING AND PROPOSED BUILDING ENTRANCES DURING ALL PHASES OF CONSTRUCTION, UNLESS OTHERWISE NOTED IN THESE DOCUMENTS. CONTRACTOR SHALL NOTIFY ENGINEER / OWNER IF EXISTING OR PROPOSED CONDITIONS RESTRICT ABILITY TO ACHIEVE POSITIVE DRAINAGE FROM BUILDINGS PRIOR TO THE START OF CONSTRUCTION.
9. CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO SUPPORT AND PROTECT ALL EXISTING UTILITIES WHEN WORKING ADJACENT TO OR CROSSING EXISTING UTILITIES.
10. PROTECT PERIMETER OF WORK AREA WITH SILT FENCE ON PAVEMENT PER MDE DETAIL E-2.

EROSION SEDIMENT CONTROL NOTES (PROJECTS < 30,000 SF)

1. CUTS/FILLS SHALL NOT EXCEED 10' IN DEPTH.
2. NO EARTH DISTURBANCE SHALL OCCUR WITHIN THE LIMITS OF ANY 100 YEAR FLOORPLAIN OR 100 FEET OF ANY STREAM OR WATER BODY.
3. THE PROPOSED WORK DOES NOT REQUIRE A STATE WATERWAY OR WETLAND PERMIT.
4. EROSION AND SEDIMENT CONTROL MEASURES (SILT FENCE) SHALL BE INSTALLED PRIOR TO ANY EARTH DISTURBANCE EXCEPT THAT NECESSARY FOR INSTALLATION OF THE CONTROLS.
5. ALL EROSION SEDIMENT CONTROL PRACTICES SHALL BE INSTALLED AND MAINTAINED ACCORDING TO THE CRITERIA CONTAINED IN THE MOST CURRENT VERSION OF THE MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL.
6. ALL CLEARING AND GRADING SHALL BE COMPLETED IN THE FOLLOWING SEQUENCE:
   a. LIMIT INITIAL CLEARING AND GRUBBING FOR THE INSTALLATION OF THE CONSTRUCTION ENTRANCE, PERIMETER CONTROLS AND ANY REMAINING CONTROLS.
   b. CLEAR, GRUB AND GRADE THE REMAINDER OF THE SITE AS SPECIFIED BY THE LIMITS OF DISTURBANCE SHOWN ON THE ATTACHED PLAT.
   c. CONSTRUCT ANY STRUCTURES AND UTILITIES.
   d. PROVIDE FINAL GRADING AND STABILIZATION ACCORDING TO THE SEEDING OR SODDING SPECIFICATIONS (MINIMUM STABILIZATION BY SEEDING AND MULCHING).
   e. AFTER THE SITE HAS BEEN STABILIZED WITH ADEQUATE VEGETATION REMOVE SEDIMENT CONTROL PRACTICES AND STABILIZE REMAINING DISTURBED AREAS.
7. ALL EROSION SEDIMENT CONTROL DEVICES REQUIRE CONTINUAL MAINTENANCE. ANY CONTROLS THAT ARE DAMAGED OR DISTURBED SHALL BE RESTORED OR REPAIRED BEFORE THE END OF EACH DAY.
8. DEVELOPMENT ACTIVITIES SHALL NOT IMPAIR ANY DRAINAGE, CREATE AN EROSION HAZARD, OR CREATE A SOURCE OF SEDIMENT TO ANY ADJACENT WATERCOURSE, WETLAND OR PROPERTY.
9. ANY PUMPING OF WATER MUST BE FILTERED OR DONE ACCORDING TO THE CRITERIA CONTAINED IN THE MOST CURRENT VERSION OF THE MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL.
10. FOLLOWING INITIAL SOIL DISTURBANCE OR RE-DISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN THREE (3) CALENDAR DAYS FOR ALL SEDIMENT CONTROL STOCKPILES, AND 3:1 OR GREATER SLOPES AND SEVEN (7) DAYS FOR ALL OTHER DISTURBED AREAS ON THE SITE NOT BEING ACTIVELY GRADED.
11. ALL CONCRETE AND ASPHALT PAVEMENT AREAS REQUIRE SAME DAY STABILIZATION.





NOTES:
1. ACTUAL CHANNEL LENGTH IS 81½" TO ALLOW FOR OVERLAP.
2. CONTRACTOR TO CUT IN FIELD PER DIMENSIONS SPECIFIED ON PLAN.
3. SECTION 8603 SHALL HAVE NO CAP AT DOWNSTREAM END.

TRENCH No.	'A' INV.	'B' INV.
8601	3.50"	4.10"
8602	4.10"	4.70"
8603	4.70"	5.30"

ZURN Z886 6" WIDE REVEAL TRENCH DRAIN SYSTEM
NOT TO SCALE

LANDCOVER SUMMARY

LIMITS OF DISTURBANCE.....4,170 SF
EX. IMPERVIOUS AREA.....4,060 SF
PROP. IMPERVIOUS AREA.....4,060 SF
CUT..... 93 CY
FILL..... 5 CY

REVISIONS		
NO.	DATE	DESCRIPTION
1	12/14/23	NEW SHEET: ADDITION OF ELEVATED CONCRETE PAD AND CANOPY

20 10 0 20 40
SCALE: 1" = 20'

RK&K
P: 410.728.2900
700 E. Pratt Street, Suite 500 | Baltimore, MD 21202
Engineers | Construction Managers | Planners | Scientists
www.rkk.com
Responsive People | Creative Solutions

APPROVED: DEPARTMENT OF PLANNING AND ZONING

Chief, Development Engineering Division — Date 1.31.24

Chief, Division of Land Development — Date 2/8/24

Director — acting on behalf of Lynda Eisenberg — Date 2/8/24

PROFESSIONAL CERTIFICATION.
I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND,
LICENSE NO 49432
EXPIRATION DATE: May 31, 2023

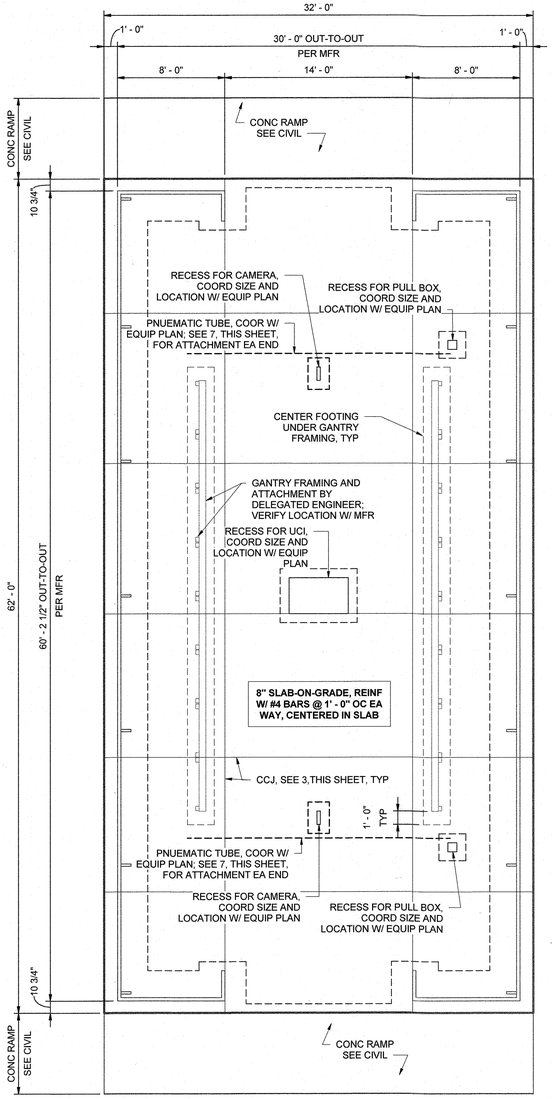
ANGLO AMERICAN ACQUISITION OF MARYLAND INC.
BROOKDALE INDUSTRIAL PARK, PARCEL 116
SITE PLAN
FIRST ELECTION DISTRICT HOWARD COUNTY, MD
December 14, 2023

SHEET 9 OF 10

DES: EWK
DRAWN: JCP
CHK: CWWM

SDP-85-172

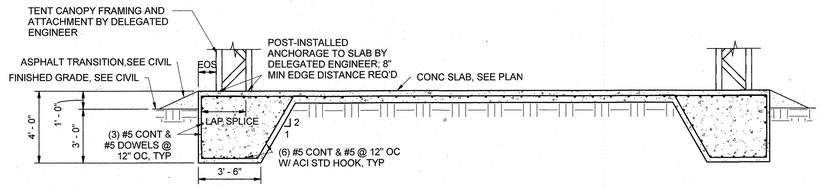
\\ad.rkk.com\fs\CloudProjects\202302271_CoxAutoSDP\CADD\Plans\C2 10 Site Plan (Revised).dwg



NOTE: SEE CIVIL FOR LOCATION OF TRENCH DRAINS. SEE DETAIL 8, THIS SHEET (SIM), FOR SLAB AT TRENCH DRAIN. DRAIN SHALL MAINTAIN 1'-0" MINIMUM CLEARANCE FROM GANTRY POST LOCATIONS, AND 2'-0" MINIMUM CLEARANCE FROM CANOPY FRAME LOCATIONS.

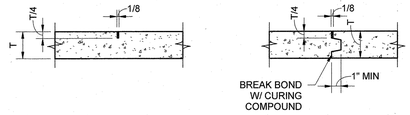
1 POST RECON GANTRY FOUNDATION PLAN

SCALE: 3/16" = 1'-0"



2 FOUNDATION SECTION

SCALE: NTS

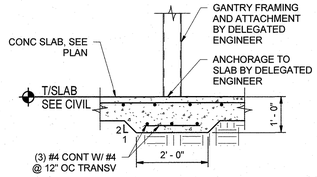


CRACK CONTROL JOINT (CCJ) **CONSTRUCTION JOINT (CJ)**

NOTES:
1. CCJ SHALL BE PREFORMED OR SAWED. IF SAWED, SAWING MUST TAKE PLACE WITHIN 12 HRS OF SLAB PLACEMENT.
2. CONSTRUCTION JOINTS SHALL BE USED INSTEAD OF CRACK CONTROL JOINT WHEREVER CONSTRUCTION IS STOPPED OR WHERE CALLED FOR ON PLAN.

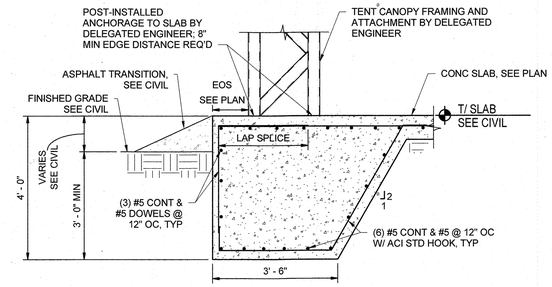
3 TYP CONC SLAB-ON-GRADE JOINTS

SCALE: NTS



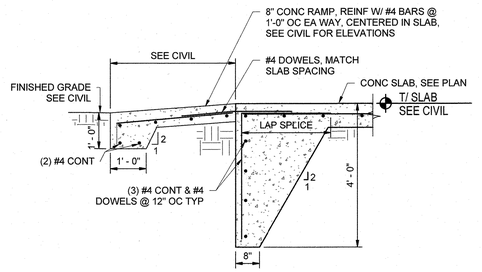
4 TYP INTERIOR FTG DETAIL

SCALE: NTS



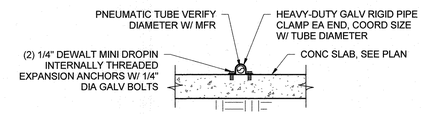
5 TYP PERIMETER COL FTG DETAIL

SCALE: NTS



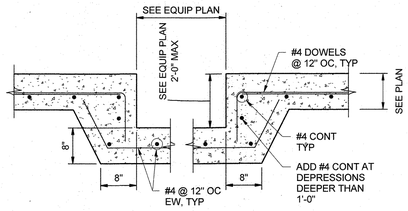
6 TYP PERIMETER TURNDOWN DETAIL

SCALE: NTS



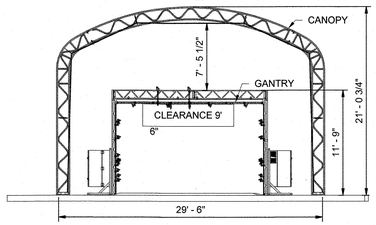
7 TYP PNEUMATIC TUBE CLAMP DETAIL

SCALE: NTS



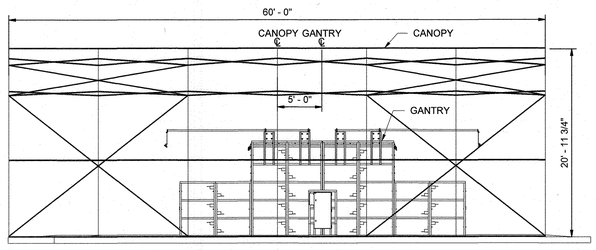
8 TYP RECESS DETAIL

SCALE: NTS



9 FRONT/REAR ELEVATION

SCALE: NTS



10 SIDE ELEVATION

SCALE: NTS

UNFACTORED CANOPY BASE REACTIONS

LOAD CASES		REACTIONS Ry (kip)	Rz (kip)
DEAD LOAD, SELF WEIGHT	DL	0.54	-0.04
SNOW LOAD/ ROOF LIVE LOAD	SL/RLL	4.86	-0.95
WIND LOAD, MAXIMUM	WLZ	-2.80	3.03
WIND LOAD, MINIMUM	WLZ	-4.14	2.49

REVISIONS NO.	DATE	DESCRIPTION
1	12/14/23	NEW SHEET: ADDITION OF ELEVATED CONCRETE PAD AND CANOPY

RS&H
Reynolds, Smith and Hills, Inc. a/k/a RS&H, Inc.
10748 Deerwood Park Blvd. South
Jacksonville, Florida 32256-0597
904-256-2500 Fax 904-256-2503
www.rsandh.com

APPROVED: DEPARTMENT OF PLANNING AND ZONING

Chief, Development Engineering Division — Date 1.31.24

Chief, Division of Land Development — Date 2/8/24

Director (acting on behalf of Lynda Eisenberg) — Date 2/8/24

PROFESSIONAL CERTIFICATION.
I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 57757
EXPIRATION DATE: 06/07/2025
12-14-23

ANGLO AMERICAN ACQUISITION OF MARYLAND INC.
BROOKDALE INDUSTRIAL PARK, PARCEL 116
SITE PLAN DETAILS
FIRST ELECTION DISTRICT HOWARD COUNTY, MD
December 14, 2023

SHEET 10 OF 10
DES:
DRAW'N:
CHK:

SDP-85-172