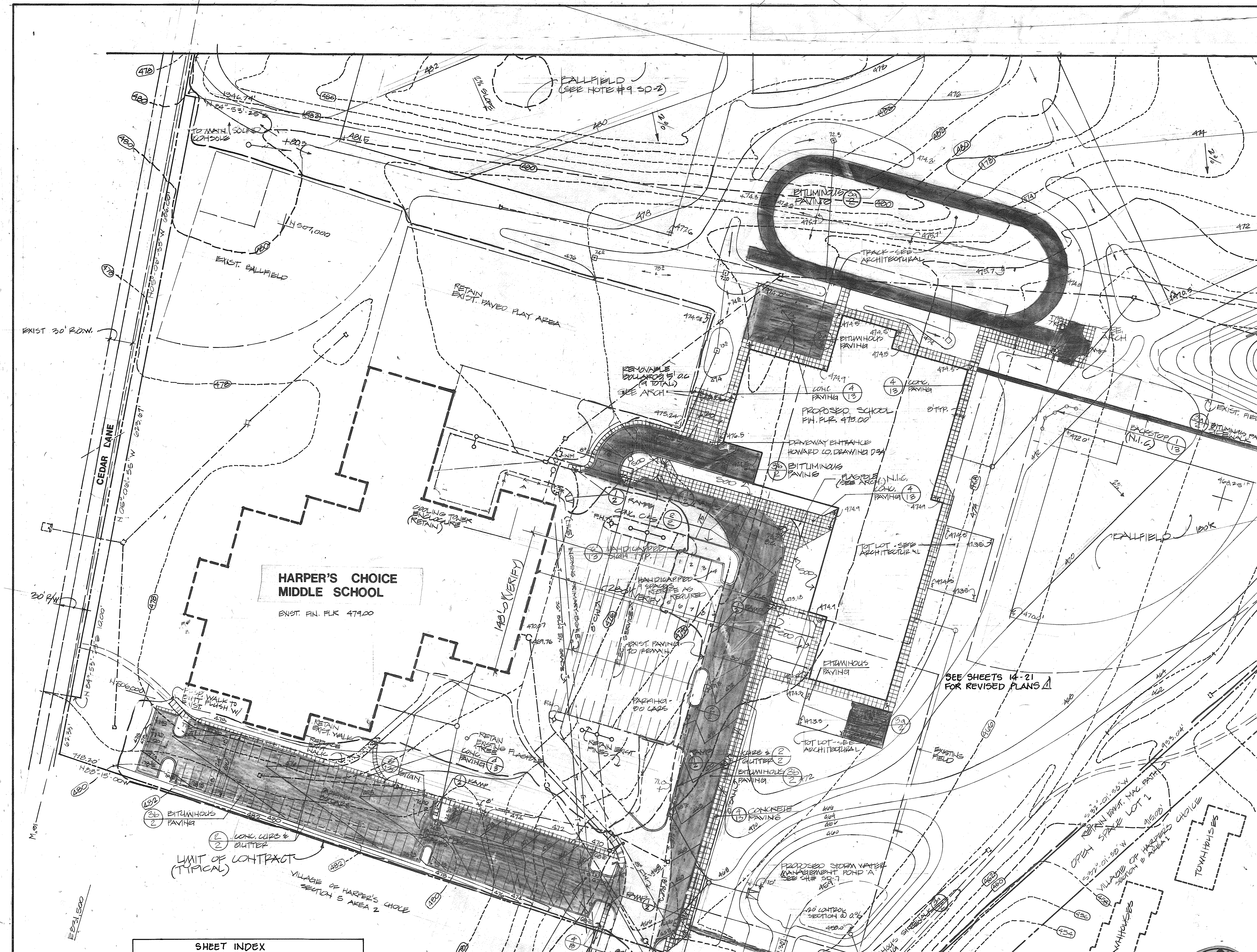


SHEET INDEX	
NO.	DESCRIPTION
SD-1	SITE DEVELOPMENT PLAN
SD-2	SITE DEVELOPMENT PLAN
SD-3	DRAINAGE AREA PLAN
SD-4	DRAINAGE AREA PLAN
SD-5	UTILITY PLAN
SD-6	UTILITY PROFILES
SD-7	SWM DETAILS AND PROFILES
SD-8	SEDIMENT CONTROL PLAN
SD-9	SEDIMENT CONTROL PLAN
SD-10	SEDIMENT CONTROL DETAILS
SD-11	PLANTING PLAN
SD-12	PLANTING PLAN
SD-13	SITE DETAILS
14	NOTES AND LOCATION SHEET
15	DEMOLITION PLAN AND SITE PLAN
16	SEDIMENT AND EROSION CONTROL PLAN & DRAINAGE AREA MAP
17	GEOMETRY PLAN
18	SITE DETAILS, BORING LOGS AND SEDIMENT CONTROL DETAILS
19	SEDIMENT CONTROL NOTES
20	PROFILES
21	PROFILES

NOTE: CONTRACTOR SHALL CALL MISS UTILITY BEFORE GRADING & HAVE THESE UTILITIES LOWERED AS REQUIRED TO ALLOW FOR GRADING & STORM DRAINS

NOTE: THE PURPOSE OF THIS REDLINE IS TO SHOW THE INSTALLATION OF A MODULAR CLASSROOM, EMERGENCY ACCESS ROADWAY AND THEIR UTILITIES ON SHEETS 14-21.

APPROVED PLANNING ... OF HOWARD ... DATE 5-23-79

1-18-24 ADDED SHEET INDEX AND REVISED SHEET NUMBER

APPROVED: For Public Water, Public Sewerage and Storm Drainage Systems and Roads
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
DIRECTOR: George F. Nemeyer DATE: 12-3-79
CHIEF, BUREAU OF ENGINEERING: [signature] DATE: 12-3-79

APPROVED: For Public Water and Public Sewerage Systems
HOWARD COUNTY HEALTH DEPARTMENT
COUNTY HEALTH OFFICER: Joyce M. Bynum DATE: 12-5-79

APPROVED: Howard County Office of Planning and Zoning
PLANNING DIRECTOR: [signature] DATE: 12-7-79
CHIEF, DIV. OF LAND DEVELOP: [signature] DATE: 12-7-79

7/20/79 DMW/JJA
REVISED 6/6/79 DMW/JJA

SITE DEVELOPMENT PLAN
HOWARD COUNTY
SPECIAL EDUCATION CENTER
VILLAGE OF HARPERS CHOICE COLUMBIA, MD.
SECTION 6 AREA 2
PLAT BOOK 23 FOLIO 64

TAX MAP NO. 29 PARCEL NO. 69
ELECTION DISTRICT NO. 5 HOWARD COUNTY, MARYLAND
SCALE: 1" = 50' APRIL 11, 1979

SDP-79-125c

HOWARD COUNTY SPECIAL EDUCATION CENTER

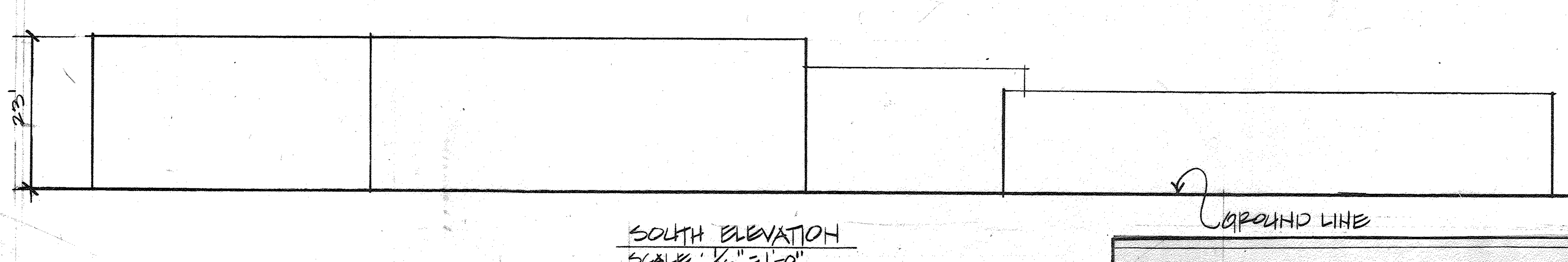
OWNER & DEVELOPER: HOWARD COUNTY PUBLIC SCHOOL SYSTEM
Village of Harper's Choice
Columbia, Maryland

BLDG. ADDIT. TO SDP-72-67
V.H.C., 6/2, OS LOT 3
PLAT BOOK
FOLIO

Browne, Worrall & Johnson / Architects
2435 North Calvert Street
Baltimore, Maryland 21218

W. Boulton Kelly, Architectural Consultant, 6229 N. Charles St. Baltimore, Maryland
George Evans Associates, Structural, 130 West Hamilton St. Baltimore, Maryland
Daft McCune Walker, Landscape & Civil, 530 E. Joppa Rd. Towson, Maryland
Moore Lewis, Inc., Mechanical & Electrical, 2435 N. Calvert St. Baltimore, Maryland

SD-1
OF 21



SCHEMATIC BUILDING PROFILE

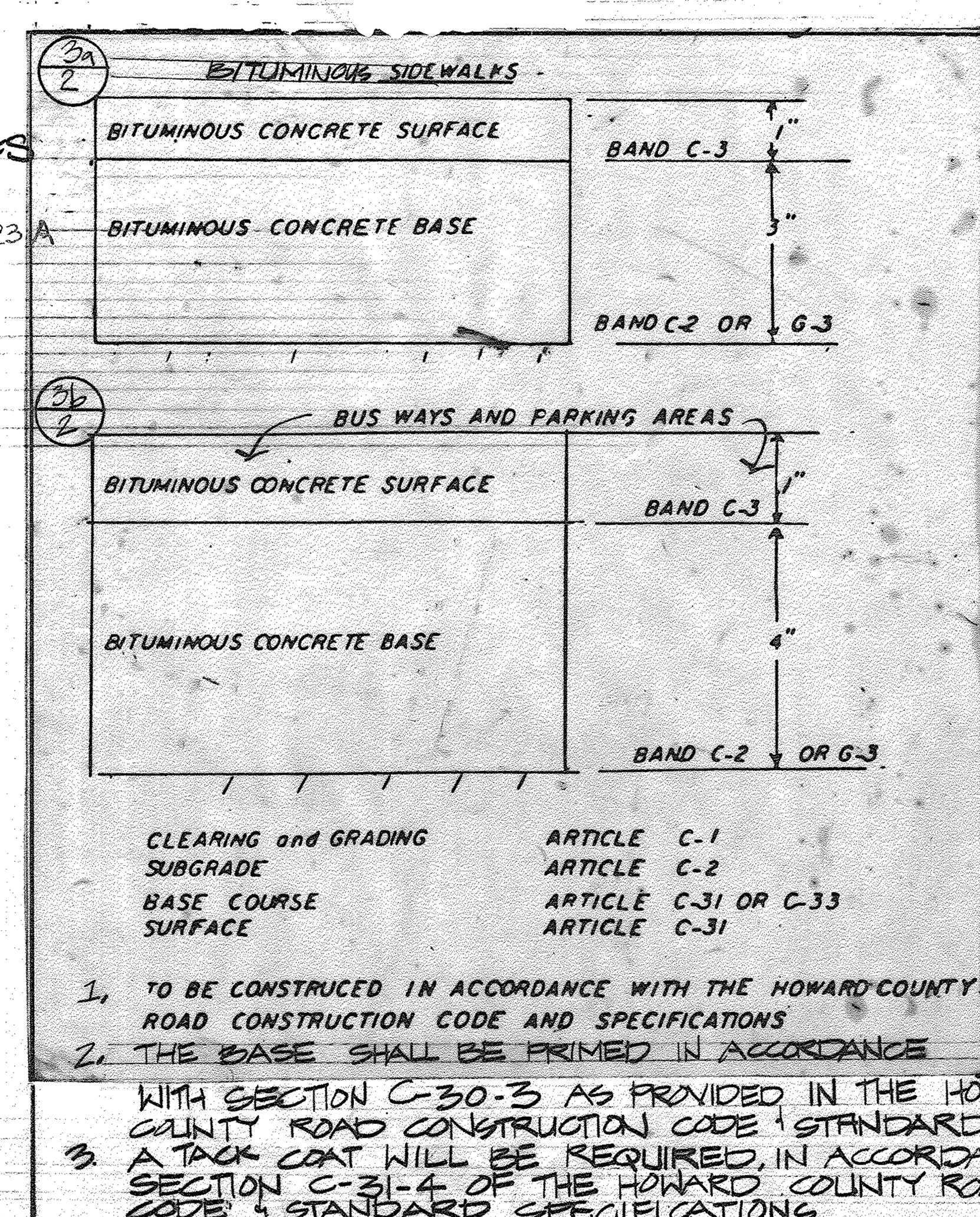
SITE ANALYSIS:

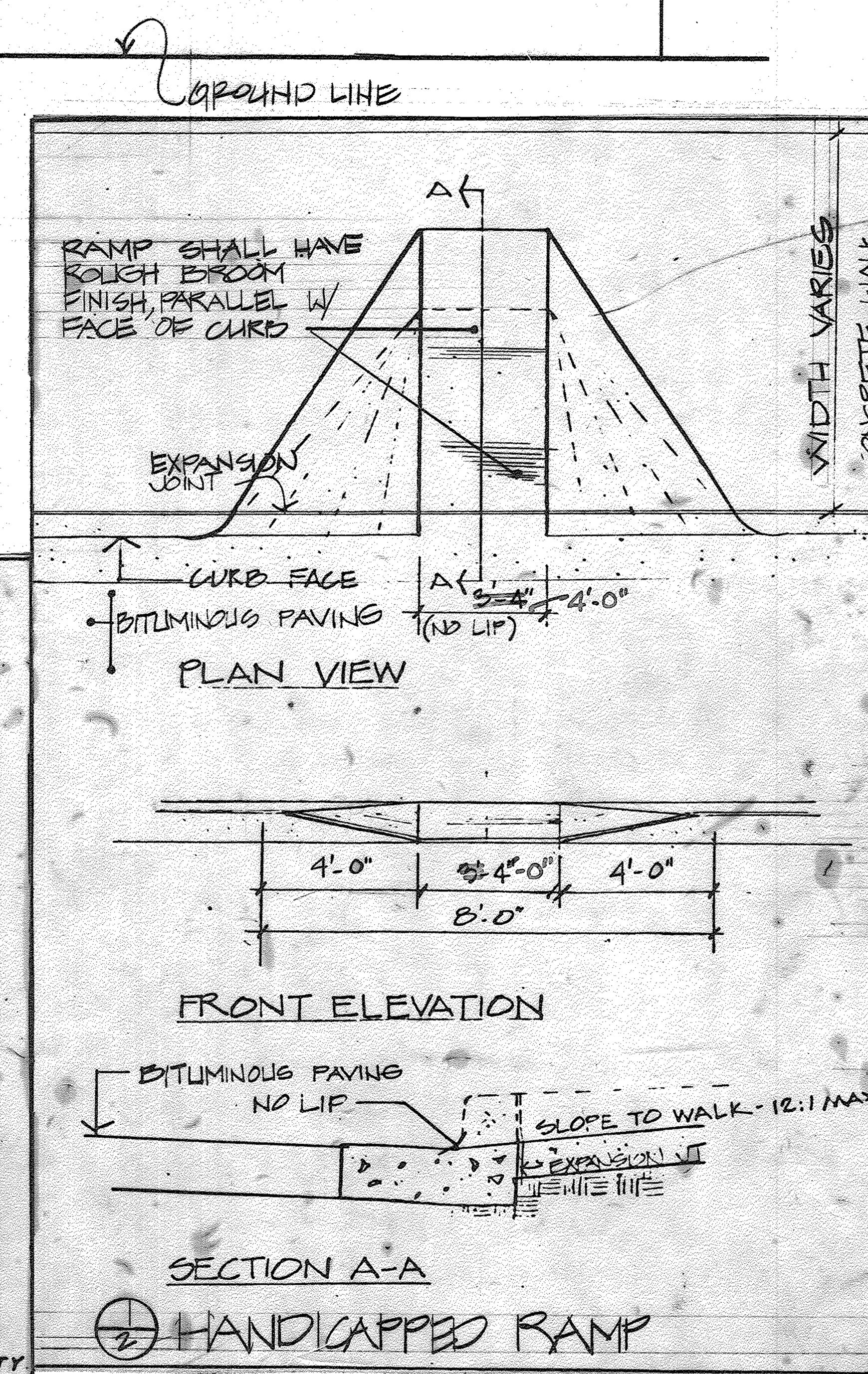
TOTAL AREA
VILLAGE OF HARPER'S CHOICE, SECTION 6 AREA 2 LOT 3 = 30.87 ACRES±

PARKING REQUIRED: 163 CARS
PARKING PROVIDED: 165 CARS
PARKING SPACES - 10'X20' W/24' LANES

ZONING-
V.H.C. 6/2 - NEW TOWN/OPEN SPACE FDP 123 A

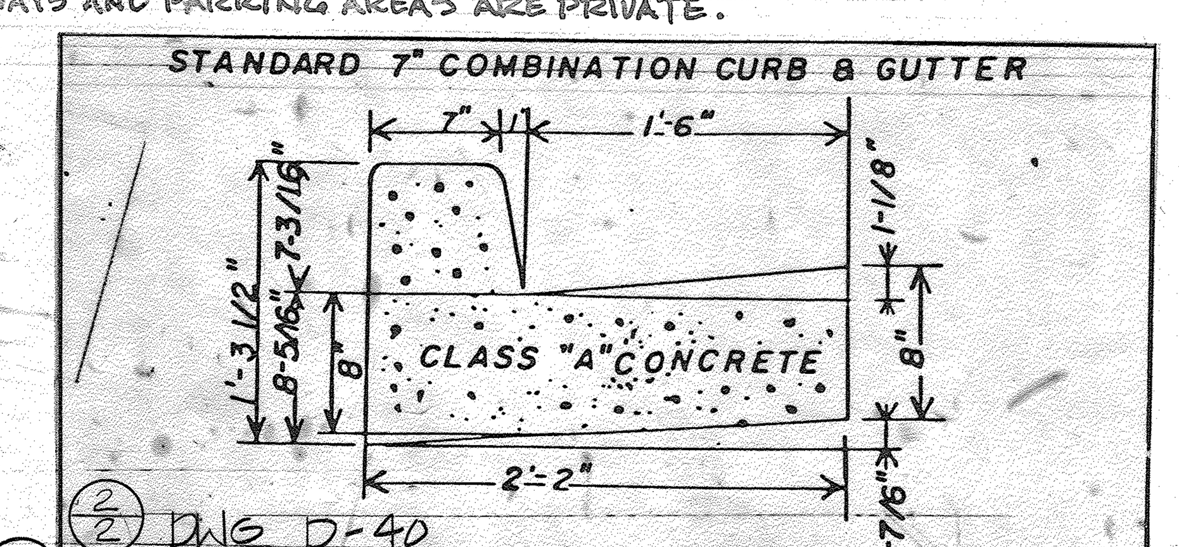
COVERAGE = 30.87 ACRES± TOTAL
EXIST BLDG. 75,000 S.F.± = 5.58%
PROPOSED BLDG. 50,000 S.F.± = 3.72%
TOTAL = 125,000 S.F.± = 9.30%

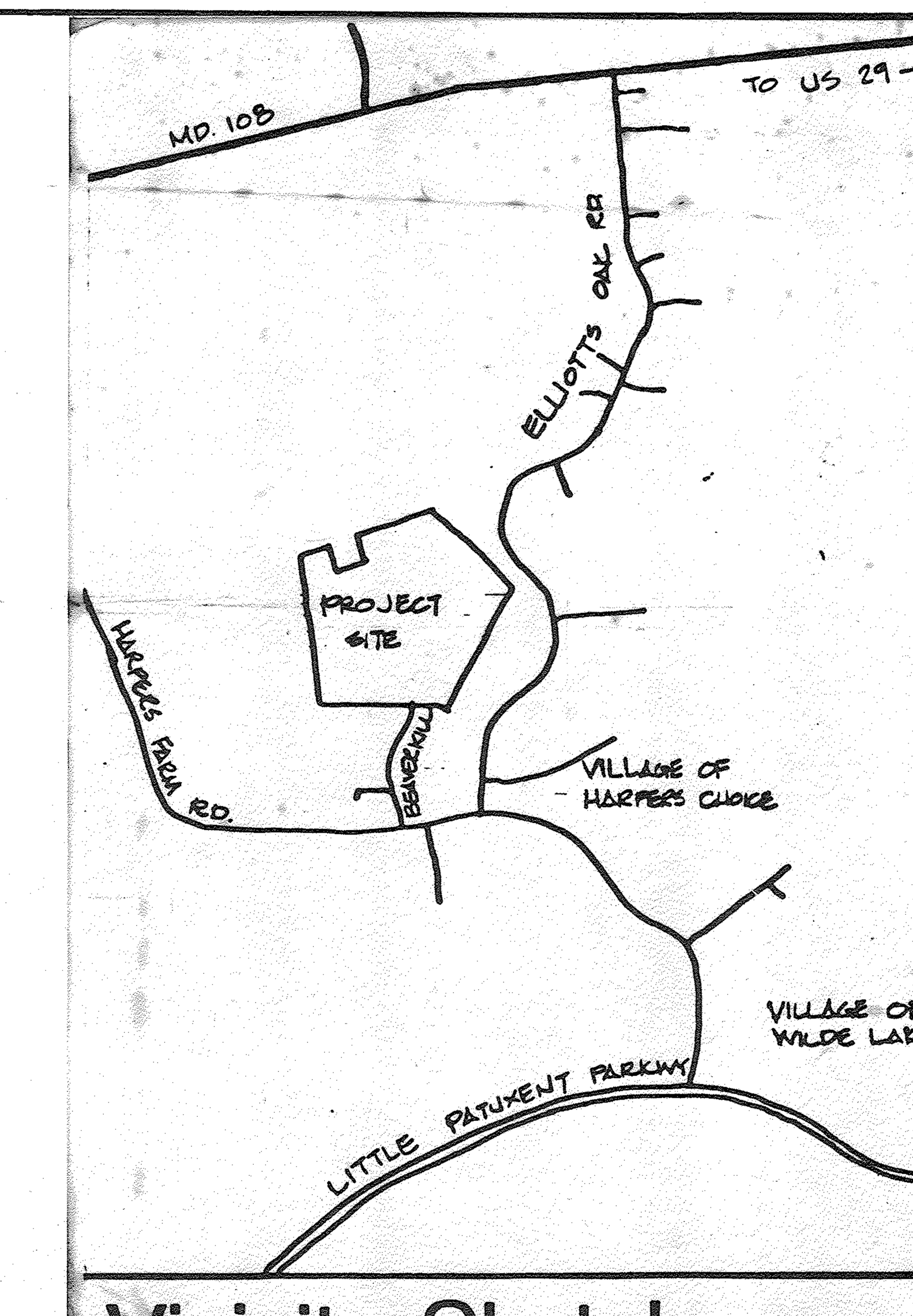




GENERAL NOTES

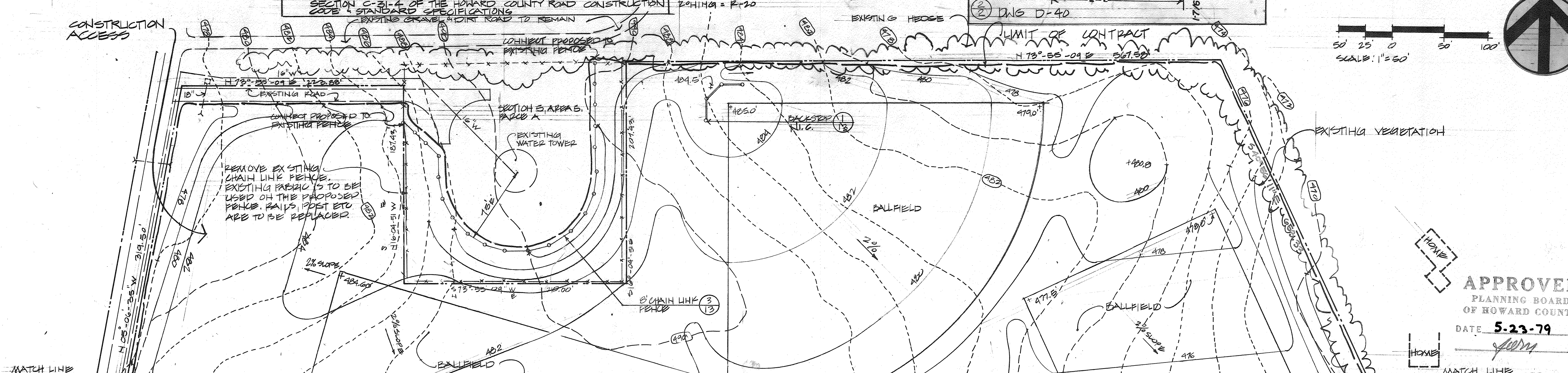
1. All construction shall be done in accordance with the latest edition of the Howard County Road Construction Code and Standard Specifications.
2. Contractor shall verify all existing information to his own satisfaction. The information shown is for the convenience of those concerned only. The correctness or completeness of the information given is not warranted or guaranteed.
3. All existing utility companies are to be notified at least 48 hours before starting work. Contact Miss Utility at (301) 559-0100.
4. Contractor is responsible for protection of all existing features not designated to be removed.
5. All disturbed areas not designated to be paved or sodded shall be seeded.
6. All curb and gutter shall be Howard County standard 7" combination curb and gutter drawing D-40.
7. Road, service drive and parking area bituminous paving section shall be Howard County Bus Ways and Parking Areas Paving Section Drawing D-117. All other bituminous paving (track, tot lots, etc.) shall be Howard County Sidewalks, Paving Section Drawing D-117.
8. CONTRACTOR WILL NOT BE ALLOWED ACCESS TO THE SITE FROM BEAVERKILL ROAD. ACCESS WILL BE PERMITTED ONLY FROM CEDAR LANE.
9. CONTRACTOR SHALL GRADE & SOD THE PROPOSED BALLFIELD NORTH OF THE EXISTING PAVED PLAY AREA BEFORE DOING ANY OTHER CONSTRUCTION.
10. ALL INLET GRATES & MANHOLE FRAMES & COVERS TO BE ABANDONED ARE THE PROPERTY OF HOWARD COUNTY.
11. CONTRACTOR SHALL ADJUST ALL EXISTING & PROPOSED UTILITIES TO FINISHED GRADE.
12. CONTRACTOR SHALL INSTALL AN EXPANSION JOINT AT ALL VERTICALS & BETWEEN PROPOSED & EXISTING WORK.
13. MAXIMUM SLOPE SHALL BE 3:1
14. CONTRACTOR SHALL INSTALL SNOW FENCE ALONG LIMITS OF GRADING ALONG ENTIRE SE & NE SIDES OF THE SITE. CONTRACTOR SHALL CONTAIN CONSTRUCTION DEBRIS ON SITE
15. SEE UTILITY PLAN & PROFILES (SHEET SD-5 & 6) FOR INVERT ELEVATIONS FOR WATER & SEWER HOUSE CONNECTIONS.
16. ALL DRIVEWAYS AND PARKING AREAS ARE PRIVATE.





Vicinity Sketch

APPROVED: For Public Water, Public Sewerage and Storm Drainage Systems and Roads HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS	
DIRECTOR: [signature]	DATE: 12-3-79
CHIEF, BUREAU OF ENGINEERING: [signature]	DATE: 12-3-79
APPROVED: For Public Water and Public Sewerage Systems HOWARD COUNTY HEALTH DEPARTMENT	
COUNTY HEALTH OFFICER: [signature]	DATE: 12-5-79
APPROVED: Howard County Office of Planning and Zoning	
PLANNING DIRECTOR: [signature]	DATE: 12-7-79
CHIEF, DIV. OF LAND DEVELOP. [signature]	DATE: 12-7-79



APPROVED
PLANNING BOARD
OF HOWARD COUNTY
DATE 5-23-79

REVISED 6/6/79 DMW/JJA

SITE DEVELOPMENT PLAN
HOWARD COUNTY
SPECIAL EDUCATION CENTER
VILLAGE OF HARPERS CHOICE COLUMBIA, MD.
SECTION 6 AREA 2
PLAT BOOK 23 FOLIO 64

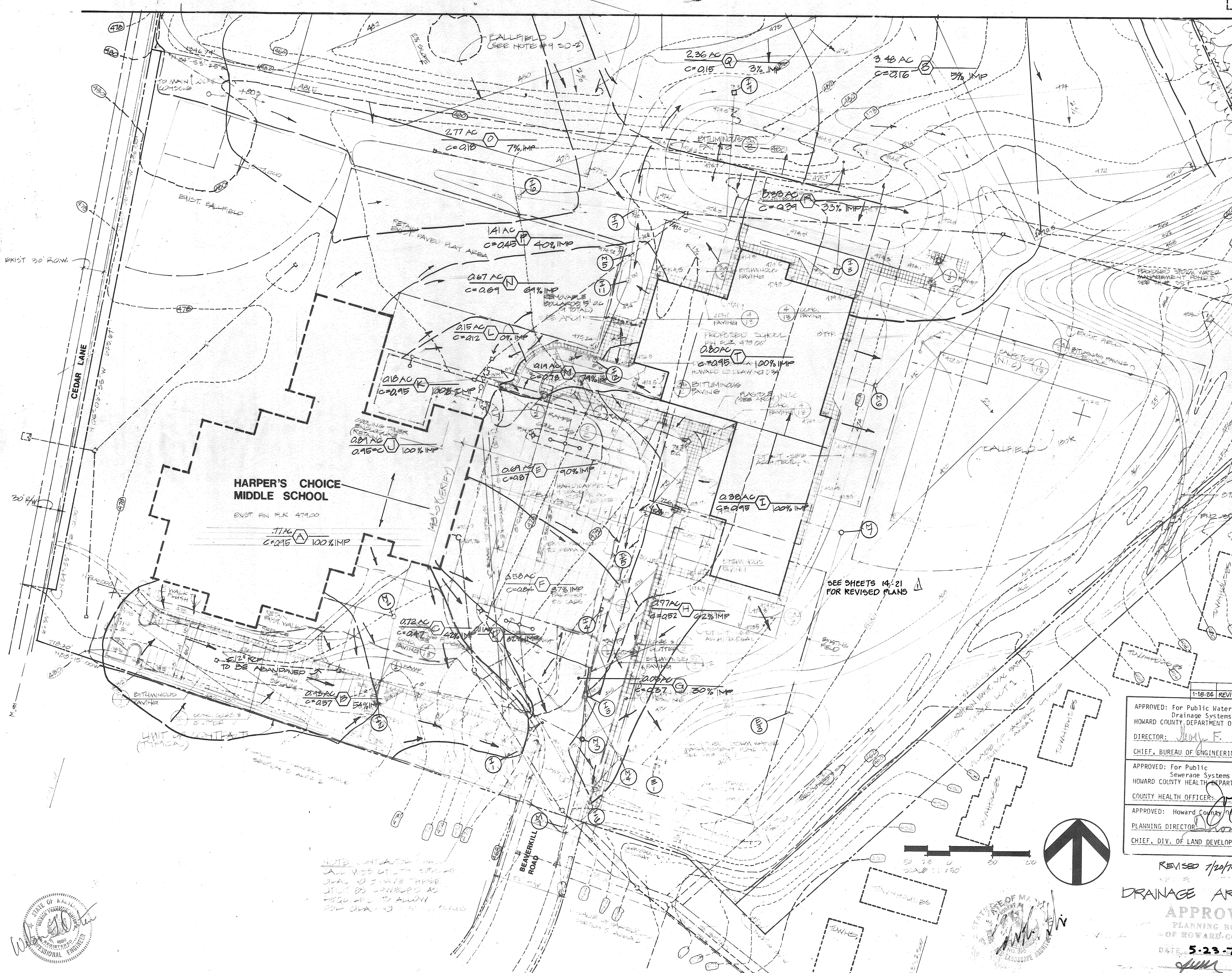
TAX MAP NO. 29 PARCEL NO. 69
ELECTION DISTRICT NO. 5 HOWARD COUNTY, MARYLAND
SCALE: 1"=50' APRIL 11, 1979

HOWARD COUNTY SPECIAL EDUCATION CENTER
Village of Harper's Choice
Columbia, Maryland
OWNER & DEVELOPER: HOWARD COUNTY PUBLIC SCHOOL SYSTEM
BLDG. ADDIT. TO SDP-72-67c
V.H.C. 6/2, O.S. LOT 3

Browne, Worrall & Johnson / Architects
2435 North Calvert Street, Baltimore, Maryland 21218
W. Boulton Kelly, Architectural Consultant, 6229 N. Charles St., Baltimore, Maryland
George Evans Associates, Structural, 130 West Hamilton St., Baltimore, Maryland
Daft McCune Walker, Landscape & Civil, 530 E. Joppa Rd., Towson, Maryland
Moore Lewis, Inc., Mechanical & Electrical, 2435 N. Calvert St., Baltimore, Maryland

SD-2

SDP-79-125c



1-18-84 REVISED SHEET NUMBER

APPROVED: For Public Water, Public Sewerage and Storm Drainage Systems and Roads
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

DIRECTOR: DATE: 12-3-79

CHIEF, BUREAU OF ENGINEERING: DATE: 12-3-79

APPROVED: For Public Water and Public Sewerage Systems
HOWARD COUNTY HEALTH DEPARTMENT

COUNTY HEALTH OFFICER: DATE: 12-5-79

APPROVED: Howard County Office of Planning and Zoning

PLANNING DIRECTOR: DATE: 12-7-79

CHIEF, DIV. OF LAND DEVELOP: DATE: 12-7-79

APPROVED
PLANNING BOARD
OF HOWARD COUNTY
DATE 5-23-79

HOWARD COUNTY SPECIAL EDUCATION CENTER

OWNER & DEVELOPER: HOWARD COUNTY PUBLIC SCHOOL SYSTEM

Village of Harper's Choice Columbia, Maryland

Browne, Worrall & Johnson / Architects
2435 North Calvert Street Baltimore, Maryland 21218

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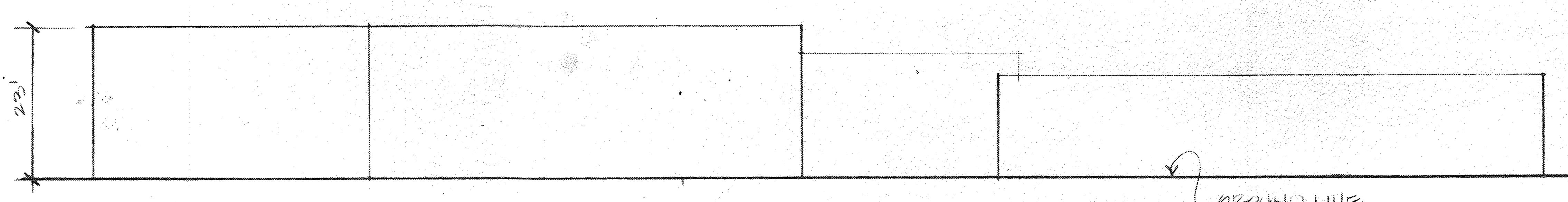
SD-3 OF 21

SDP-79-125c

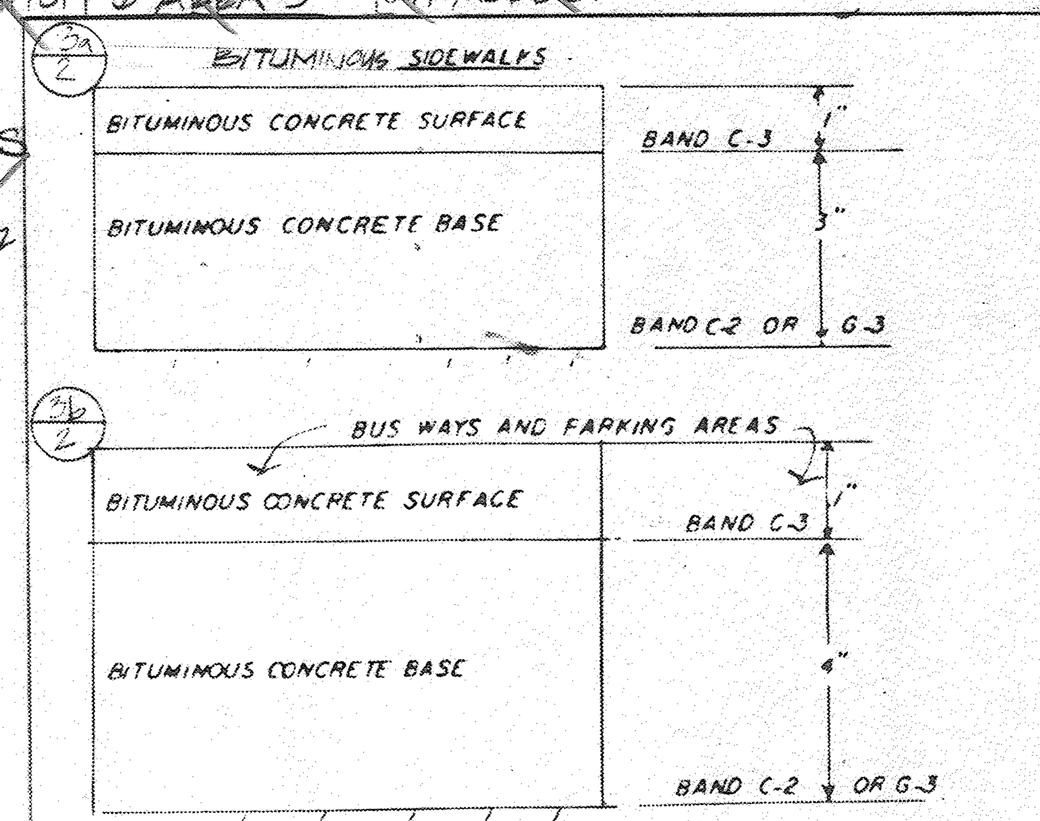


SOUTH ELEVATION
SCALE: 1/16" = 1'-0"

SCHEMATIC BUILDING PROFILE

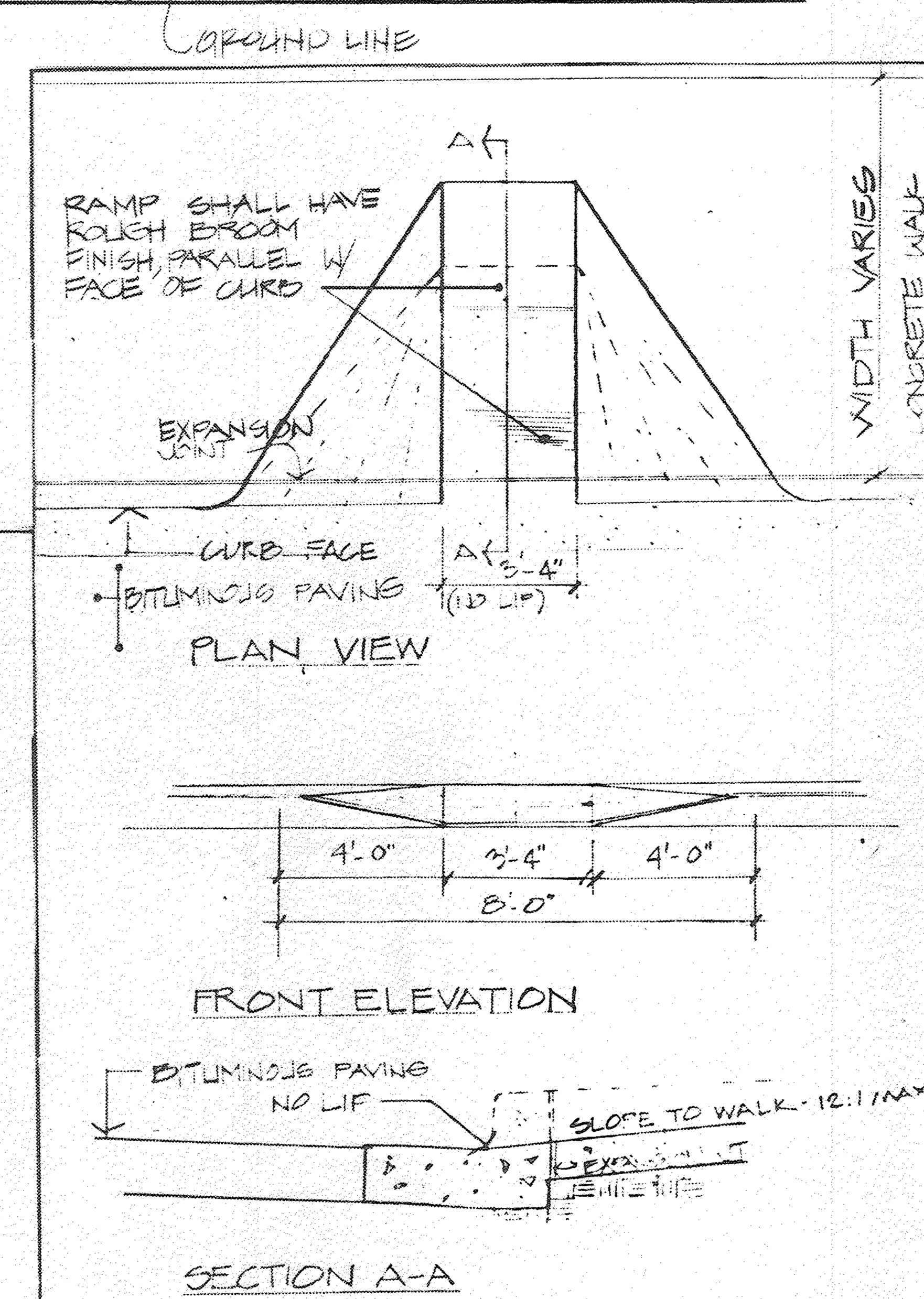
SITE ANALYSIS: (SEE SHEET SD-2)

~~TOTAL AREA~~
~~VILLAGE OF HARPERS CHOICE SECTION 6 AREA 2 16.633 ACRES±~~
~~VILLAGE OF HARPERS CHOICE SECTION 6 AREA 3 10.7 ACRES±~~
~~TOTAL 27.3 ACRES±~~
~~PARKING REQUIRED: 163 CARS~~
~~PARKING PROVIDED: 165 CARS~~
~~PARKING SPACES - 10'x20' W/ 24' LANES~~
~~ZONING-~~
~~V.H.C. 6/2 - NEW TOWN/OPEN SPACE FOR 132~~
~~V.H.C. 6/3 - NEW TOWN~~
~~COVERAGE - 27.3 ACRES± TOTAL~~
~~EXIST. BLDG. 75,000 S.F.± 6.6%~~
~~PROPOSED BLDG. 50,000 S.F.± 4.2%~~
~~TOTAL 125,000 S.F.± 10.5%~~



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

1. TO BE CONSTRUCED IN ACCORDANCE WITH THE HOWARD COUNTY ROAD CONSTRUCTION CODE AND SPECIFICATIONS
2. THE BASE SHALL BE PRIMED IN ACCORDANCE WITH SECTION C-30-3 AS PROVIDED IN THE HOWARD COUNTY ROAD CONSTRUCTION CODE & STANDARD SPECIFICATIONS
3. A TACK COAT WILL BE REQUIRED, IN ACCORDANCE WITH SECTION C-31-4 OF THE HOWARD COUNTY ROAD CONSTRUCTION CODE & STANDARD SPECIFICATIONS



HANDICAPPED RAMP

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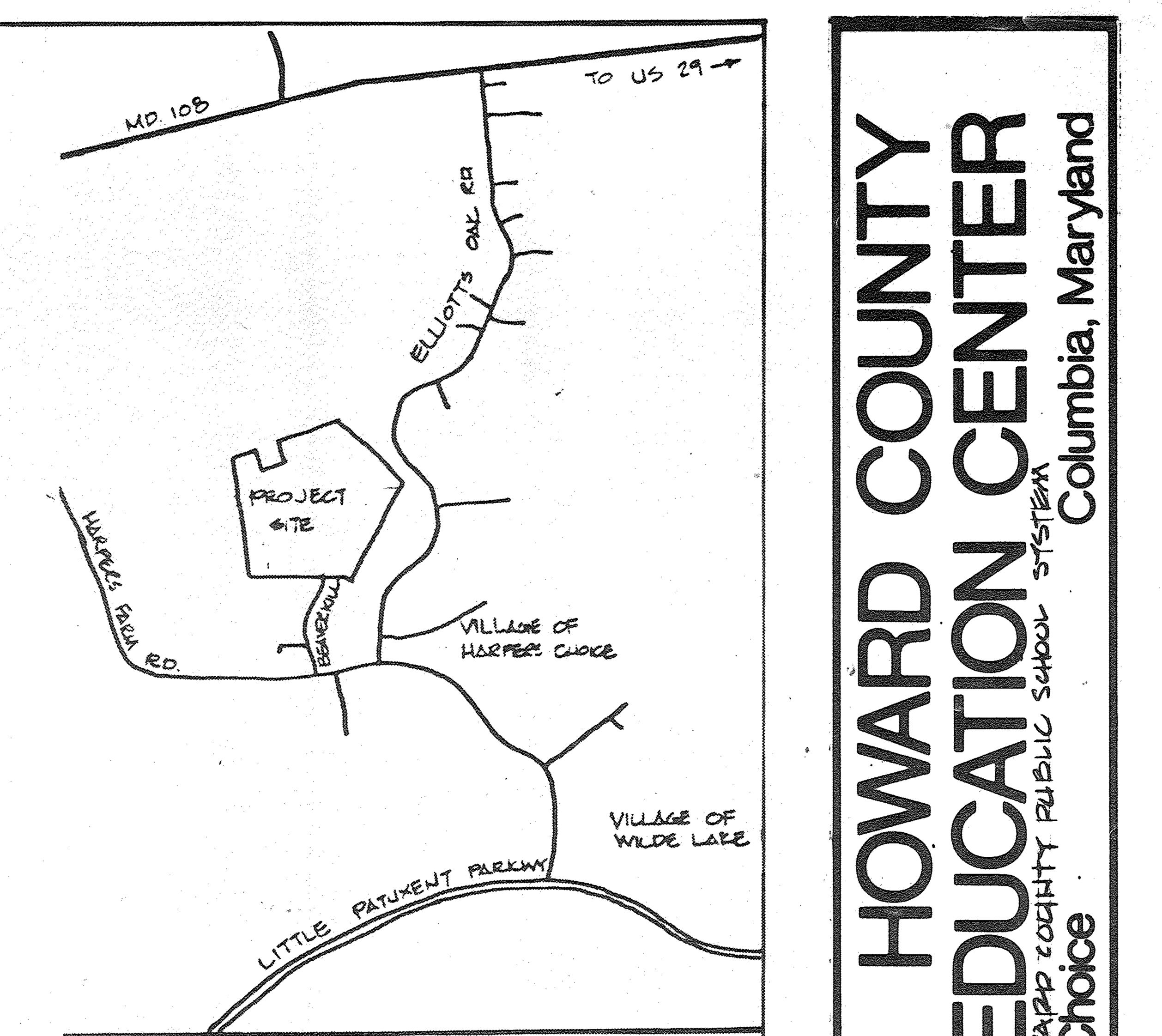
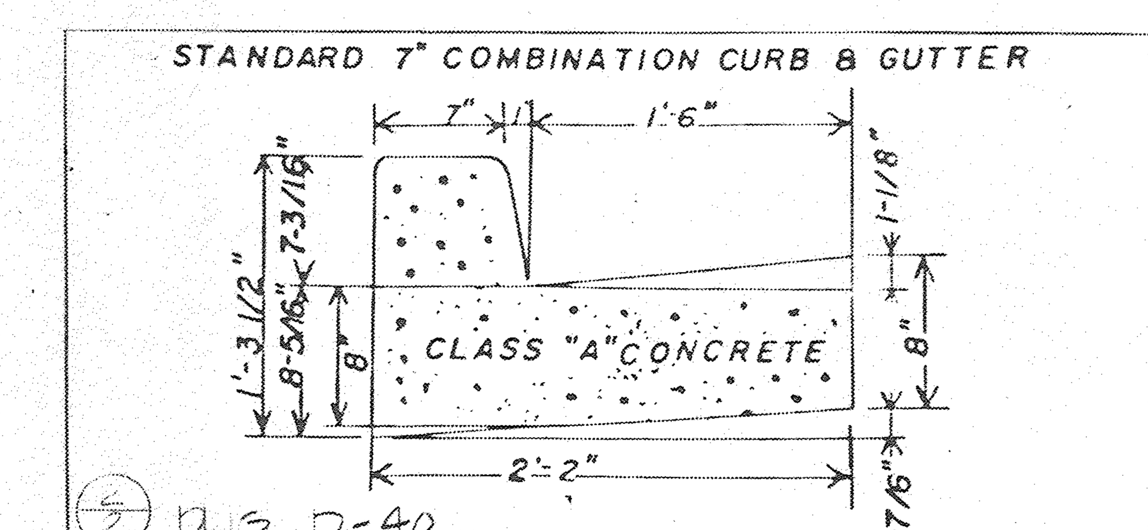


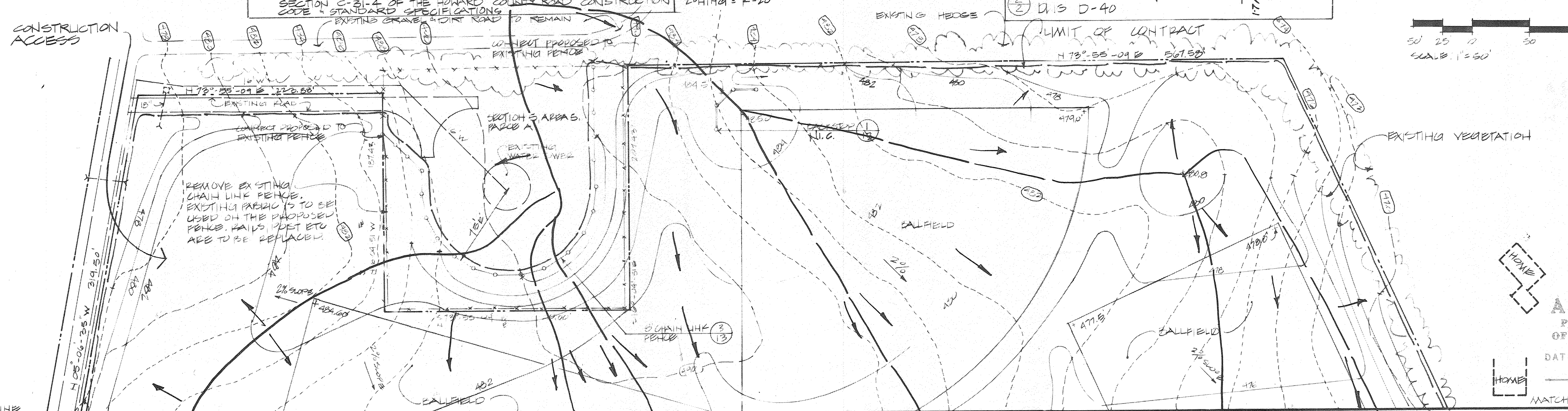
Vicinity Sketch

APPROVED: For Public Water, Public Sewerage and Storm Drainage Systems and Roads
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
DIRECTOR: [signature] DATE: 12-3-79
CHIEF, BUREAU OF ENGINEERING: [signature] DATE: 12-3-79

APPROVED: For Public Water and Public Sewerage Systems
HOWARD COUNTY HEALTH DEPARTMENT
COUNTY HEALTH OFFICER: [signature] DATE: 12-5-79

APPROVED: Howard County Office of Planning and Zoning
PLANNING DIRECTOR: [signature] DATE: 12-7-79
CHIEF, DIV. OF LAND DEVELOP.: [signature] DATE: [illegible]





APPROVED
PLANNING BOARD
OF HOWARD COUNTY
DATE 5-23-79

REVISED 7/10/79 DMW/JJA
REVISED 6/6/79 DMW/JJA

DRAINAGE AREA PLAN
HOWARD COUNTY
SPECIAL EDUCATION CENTER
VILLAGE OF HARPERS CHOICE COLUMBIA, MD.
SECTION 6 AREA 2
PLAT BOOK 23 FOLIO 64

TAX MAP NO. 29 PARCEL NO. 69
ELECTION DISTRICT NO. 5 HOWARD COUNTY, MARYLAND
SCALE: 1"=50' APRIL 11, 1979.

HOWARD COUNTY SPECIAL EDUCATION CENTER
OWNER & DEVELOPER: HOWARD COUNTY PUBLIC SCHOOL SYSTEM
Village of Harper's Choice Columbia, Maryland

BLDG. ADDIT. TO SDP-72-65
V.H.C. 6/2 05 LOTS
PLAT BOOK
FOLIO

Browne, Worrall & Johnson / Architects
2435 North Calvert Street Baltimore, Maryland 21218
W. Boulton Kelly, Architectural Consultant 6229 N Charles St. Baltimore, Maryland
George Evans Associates, Structural 130 West Hamilton St. Baltimore, Maryland
Daft McCune Walker, Landscape & Civil 530 E. Joppa Rd. Towson, Maryland
Moore Lewis, Inc., Mechanical & Electrical 2435 N. Calvert St. Baltimore, Maryland

SDP-79-125c

APPROVED: For public Water, Public Sewerage and Storm Drainage Systems and Roads

HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

DIRECTOR — DATE 12-3-79

CHIEF, BUREAU OF ENGINEERING — DATE 12-3-79

APPROVED: For public Water and Public Sewerage Systems

HOWARD COUNTY HEALTH DEPARTMENT

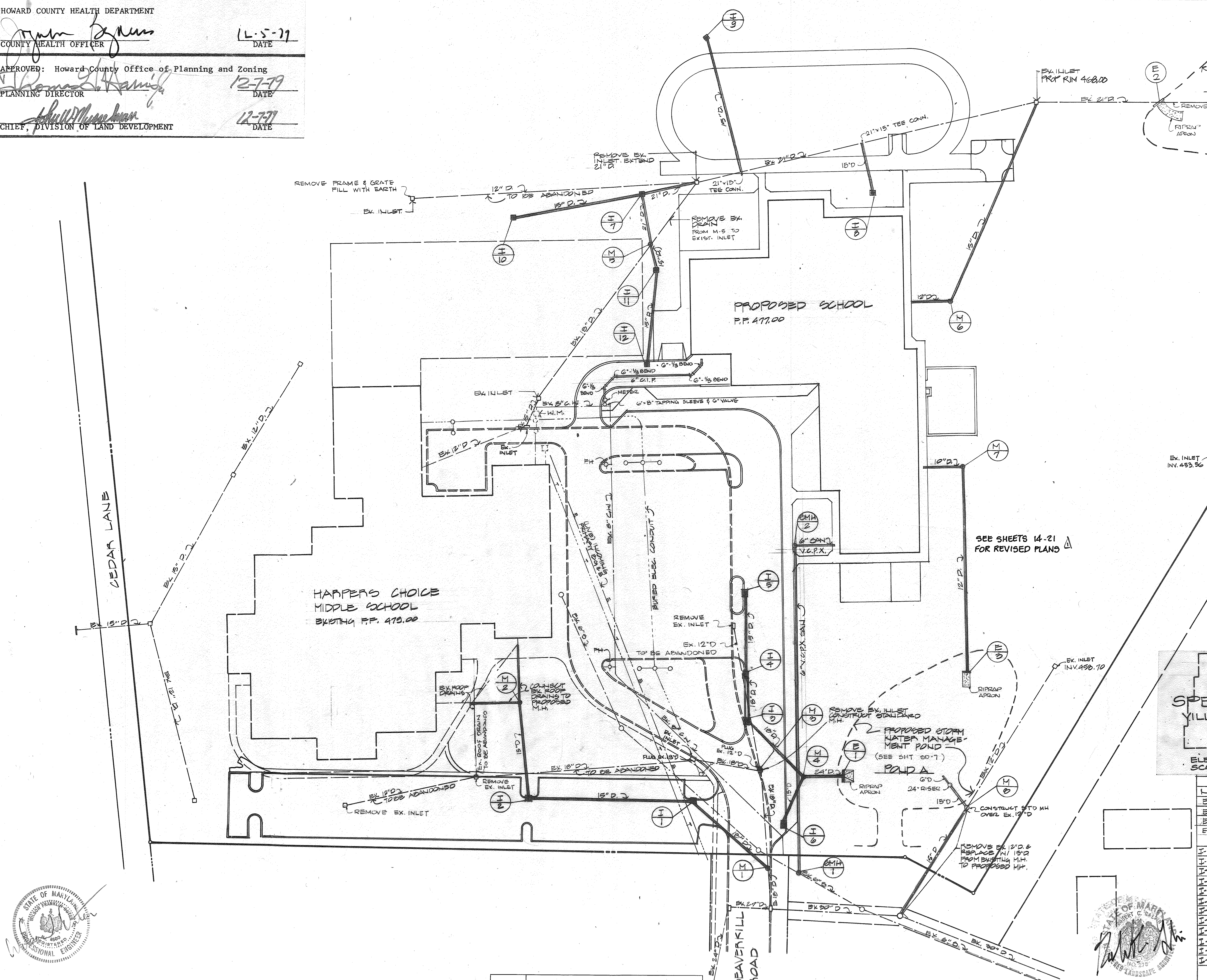
COUNTY HEALTH OFFICER — DATE 11-5-79

APPROVED: Howard County Office of Planning and Zoning

PLANNING DIRECTOR — DATE 12-7-79

CHIEF, DIVISION OF LAND DEVELOPMENT — DATE 12-7-79

STRUCTURE SCHEDULE					
NO.	TYPE	INV. IN.	INV. OUT	TOP ELEV.	REMARKS
M-1	STD. M.H.	461.16	460.96	SET IN FIELD	DWG D-103, PG. 158
M-2	"	—	472.20	477.80	"
M-3	"	464.45	463.16	468.00	"
M-4	"	461.72	461.22	467.80	"
M-5	"	469.57	468.87	474.10	"
M-6	"	468.15	467.90	474.00	"
M-7	"	465.50	465.33	473.00	"
M-8	"	454.81	454.56	465.50	"
M-9	"	452.00	451.80	459.00	"



APPROVED
PLANNING
OF HOW
DATE 5-23-79

UTILITY PLAN
HOWARD COUNTY
SPECIAL EDUCATION CENTER
VILLAGE OF HARPERS CHOICE COLUMBIA, MD.
SECTION 6 AREA 2
PLAT BOOK 23 FOLIO 64

TAX MAP NO. 29 PARCEL NO. 69
ELECTION DISTRICT NO. 5 HOWARD COUNTY, MARYLAND
SCALE: 1" = 50' APRIL 11, 1979.

STRUCTURE SCHEDULE					
NO.	TYPE	INV. IN.	INV. OUT	TOP ELEV.*	REMARKS
E-1	TYPE 'C' ENDWALL	460.00	—	462.75	DWG. D-52 PG 107
E-2	"	458.16	—	460.66	"
E-3	"	460.00	—	461.75	"
E-4	SPECIAL DETAIL	452.17	452.17	455.92	SEE SHT. SD-7
I-1	DBL. "S" COMB.	463.75	463.50	468.10	DWG. D-99, PG 154
I-2	"	470.20	470.00	474.65	"
I-3	"	464.88	464.68	469.32	"
I-4	"	466.33	466.08	470.44	"
I-5	"	—	468.30	472.40	"
I-6	"	—	462.50	466.17	"
I-7	"S" GRATE	468.61	468.41	472.00	DWG D-98, PG 153
I-8	"	—	466.09	472.00	"
I-9	"	—	468.14	472.30	"
I-10	"	—	469.25	474.00	"
I-11	"	470.51	470.31	473.50	"
I-12	A-5	—	472.00	473.60	DWG 64-A, PG 119-A

*TOP OF CURB ON CURB OPENING & COMB. INLETS, TOP OF GRATE ON GRATE INLETS

HOWARD COUNTY SPECIAL EDUCATION CENTER

Village of Harper's Choice
Columbia, Maryland

OWNER & DEVELOPER: HOWARD COUNTY PUBLIC SCHOOL SYSTEM

Browne, Worrall & Johnson / Architects
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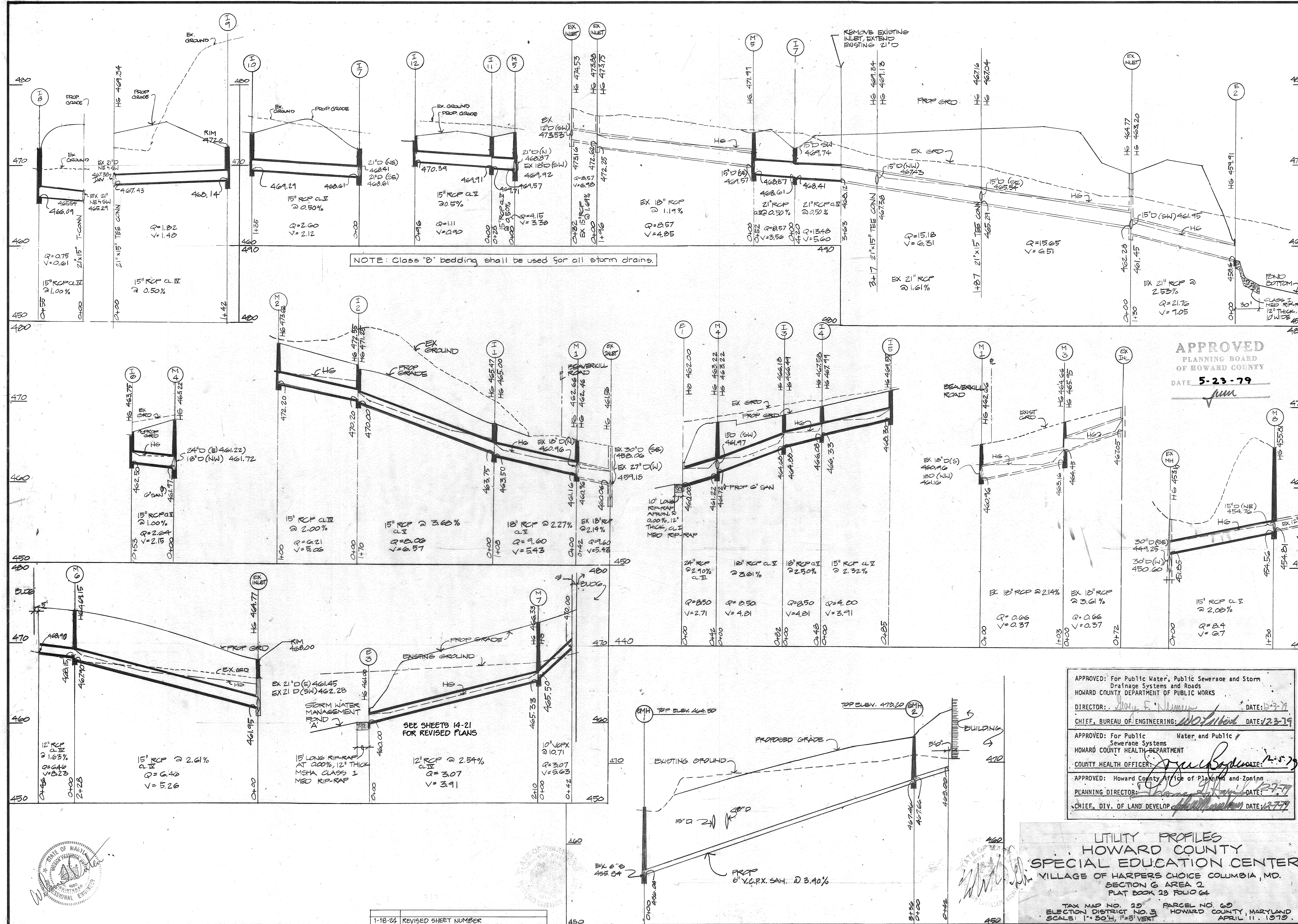
SDP-79-125c



APPROVED: For Public Water, Public Sewerage and Storm Drainage Systems and Roads
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

DIRECTOR: ______ DATE: 12-3-79

CHIEF, BUREAU OF ENGINEERING: ______ DATE: 12-3-79

APPROVED: For Public Water and Public Sewerage Systems
HOWARD COUNTY HEALTH DEPARTMENT

COUNTY HEALTH OFFICER: ______ DATE: 12-5-79

APPROVED: Howard County Office of Planning and Zoning

PLANNING DIRECTOR: ______ DATE: 12-7-79

CHIEF, DIV. OF LAND DEVELOP. ______ DATE: 12-7-79

APPROVED
PLANNING BOARD
OF HOWARD COUNTY
DATE 5-23-79

UTILITY PROFILES
HOWARD COUNTY SPECIAL EDUCATION CENTER

VILLAGE OF HARPERS CHOICE COLUMBIA, MD.
SECTION 6 AREA 2
PLAT BOOK 23 FOLIO 64
TAX MAP NO. 29 PARCEL NO. 69
ELECTION DISTRICT NO. 5 HOWARD COUNTY, MARYLAND
SCALE: 1"=30'H, 1"=5' VERT APRIL 11, 1979

HOWARD COUNTY SPECIAL EDUCATION CENTER
OWNER & DEVELOPER: HOWARD COUNTY PUBLIC SCHOOL SYSTEM
Village of Harper's Choice Columbia, Maryland

BLDG. ADDIT. TO SDP-72-67c

Browne, Worrall & Johnson / Architects
2435 North Calvert Street Baltimore, Maryland 21218
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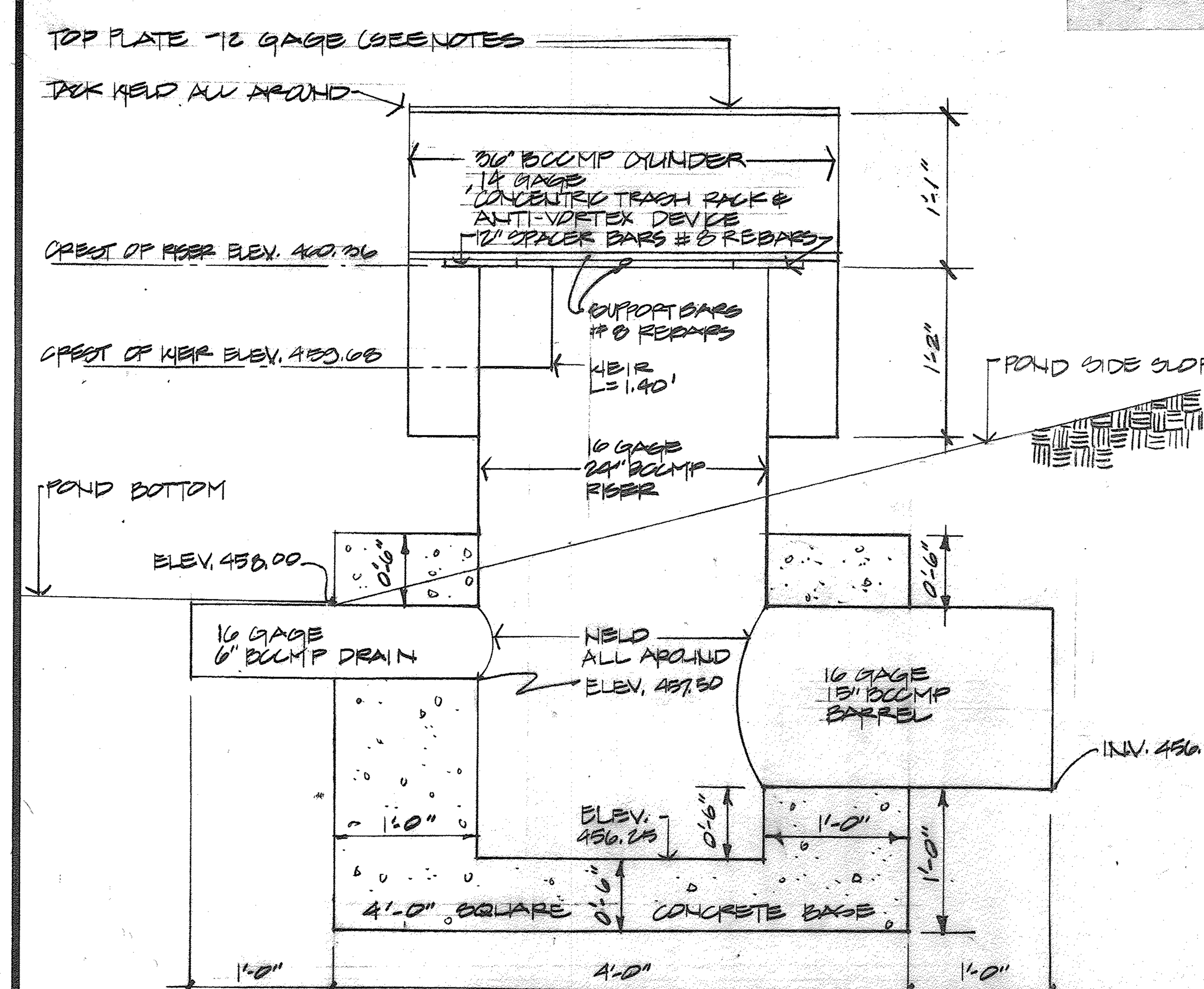
SDP-79-125C

STORM WATER MANAGEMENT DETAILS
HOWARD COUNTY SPECIAL EDUCATION CENTER

VILLAGE OF HARPERS CHOICE COLUMBIA, MD.
SECTION 6 AREA 2
PLAT BOOK 23, FOLIO 64
TAX MAP NO. 29 PARCEL NO. 69
ELECTION DISTRICT NO. 5 HOWARD COUNTY, MARYLAND
SCALE: AS SHOWN APRIL 11, 1979

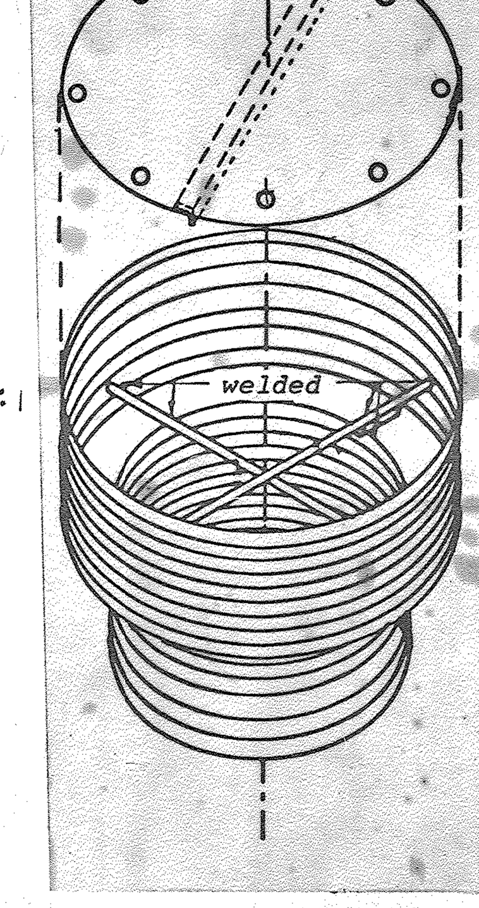
Site Development Plan approved for Soil Erosion and Sediment Control by the Howard County Soil Conservation District.
William V. Rowe Date: 11-21-79

Reviewed for Howard County Soil Conservation District and meets technical requirements.
James M. Helmick Date: 11/21/79



SECTION A-A - RISER, RISER BASE, CONCENTRIC TRASH RACK & ANTI-VORTEX DEVICE
SCALE: 1"=1'-0"

Pressure Relief Holes 1 1/2" diam.

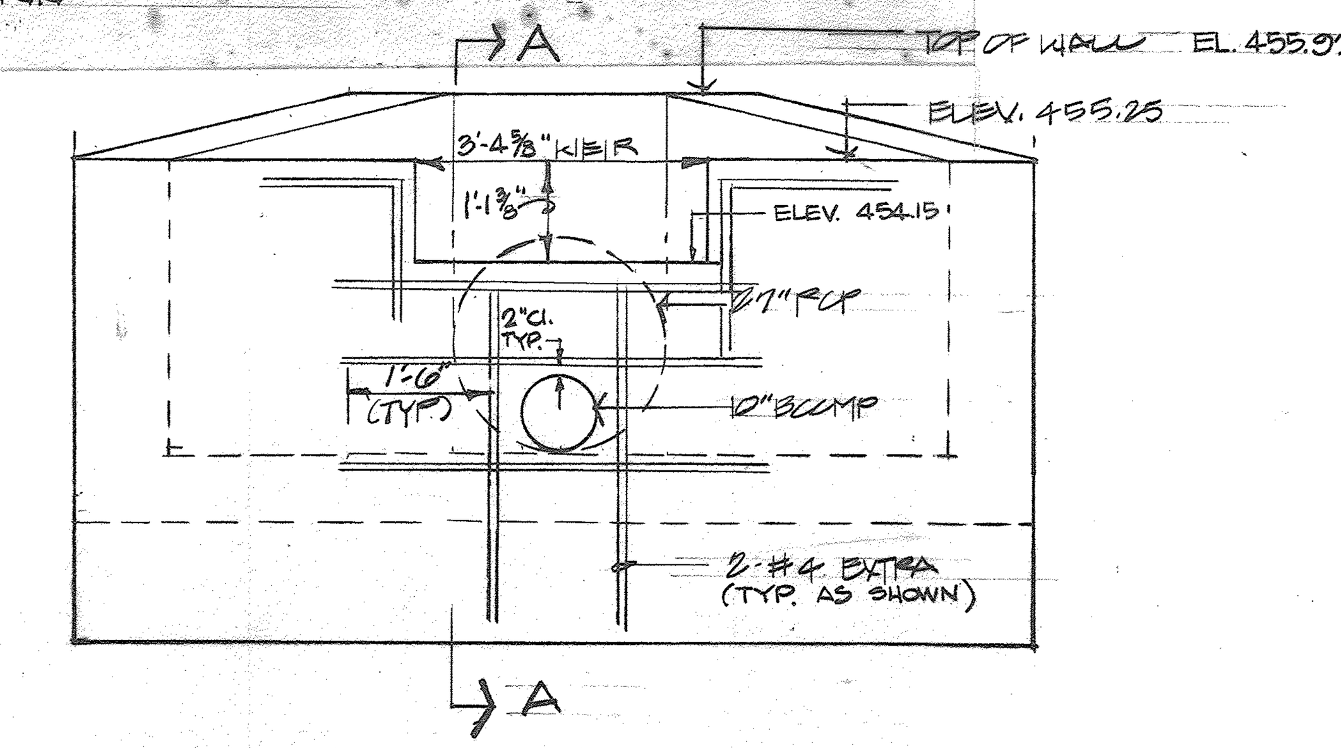


Top is 12 gage corrugated metal or 1/8" steel plate. Pressure relief holes may be ommitted if ends of corrugations are left fully open when corrugated top is welded to cylinder.

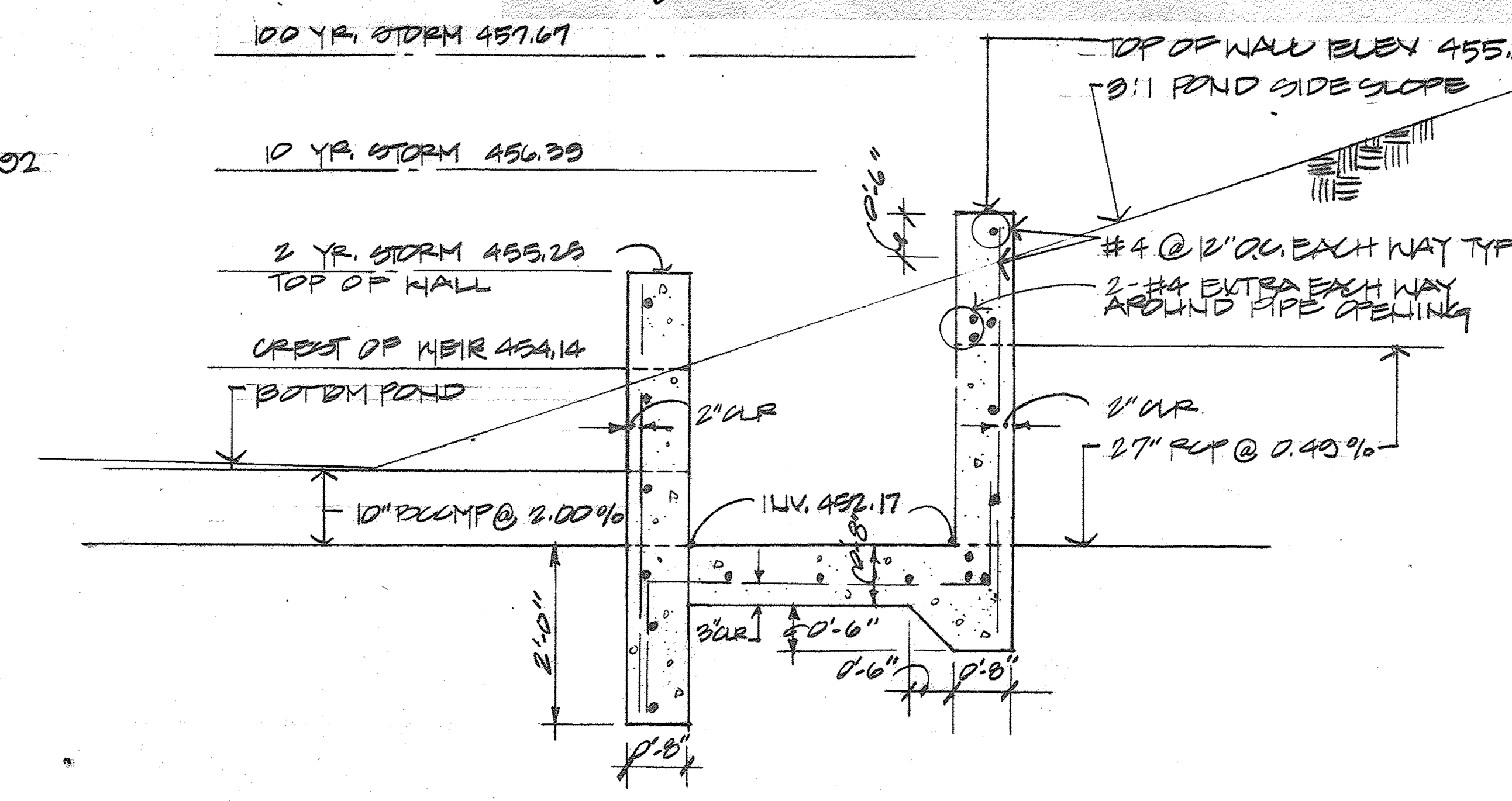
Cylinder is 14 gage corrugated metal pipe or fabricated from 1/8" steel plate.

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.
3) The device should be asphalt coated or primed and painted.

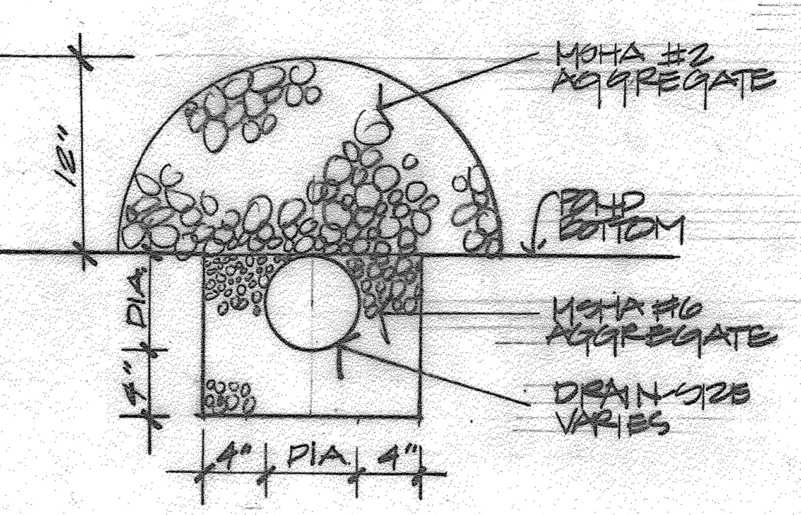
ISOMETRIC - TRASH RACK & ANTI-VORTEX DEVICE CONCENTRIC
NOT TO SCALE



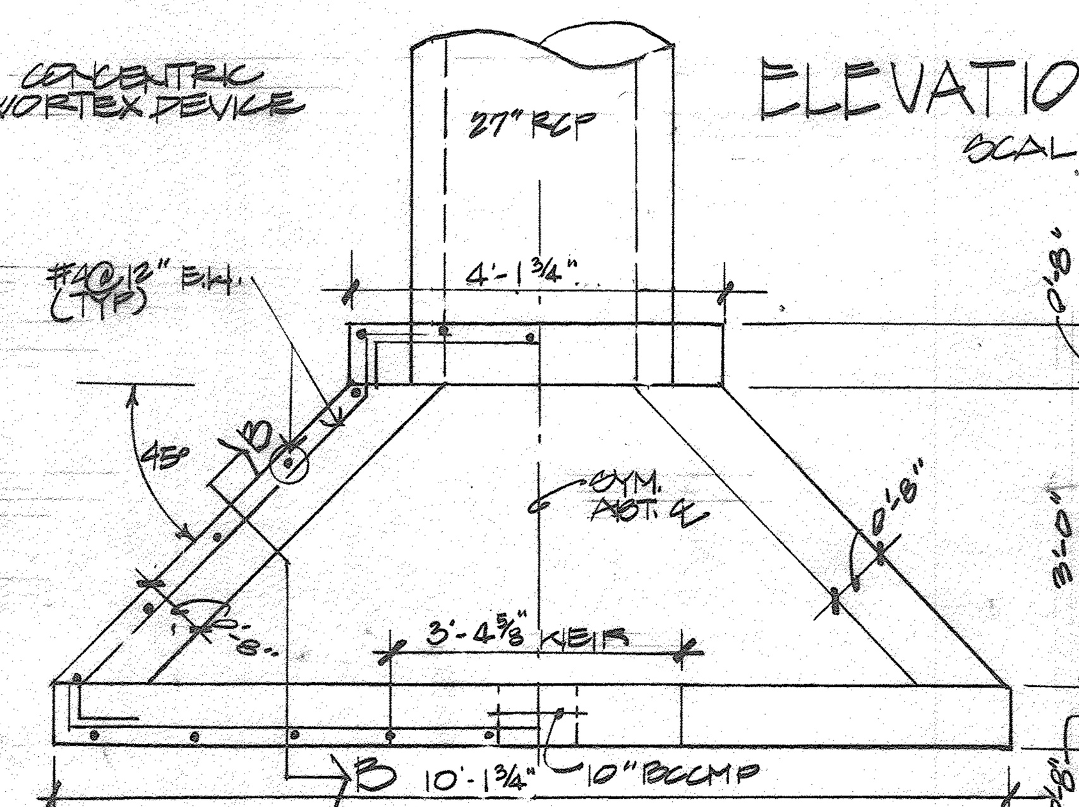
ELEVATION HEADWALL
SCALE 1/2"=1'-0"



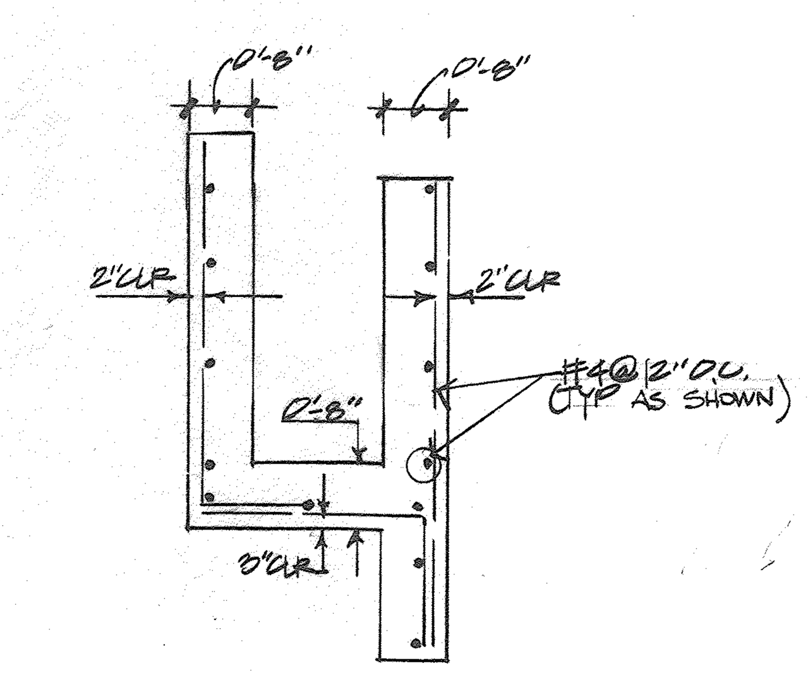
SECTION A-A HEADWALL
SCALE: 1/2"=1'-0"



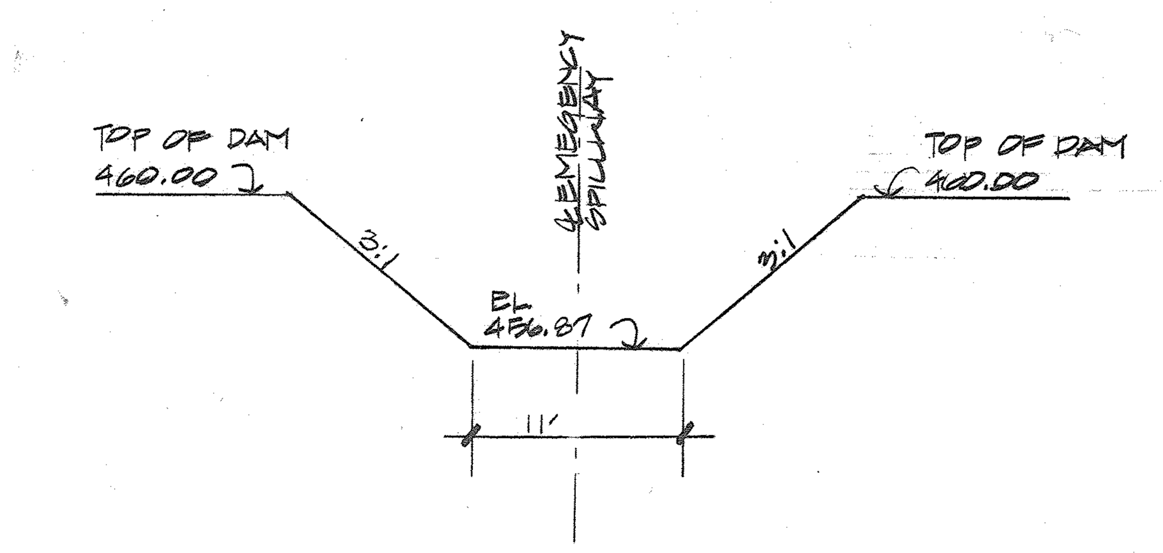
UNDERDRAIN DETAIL-TYP.
NOT TO SCALE



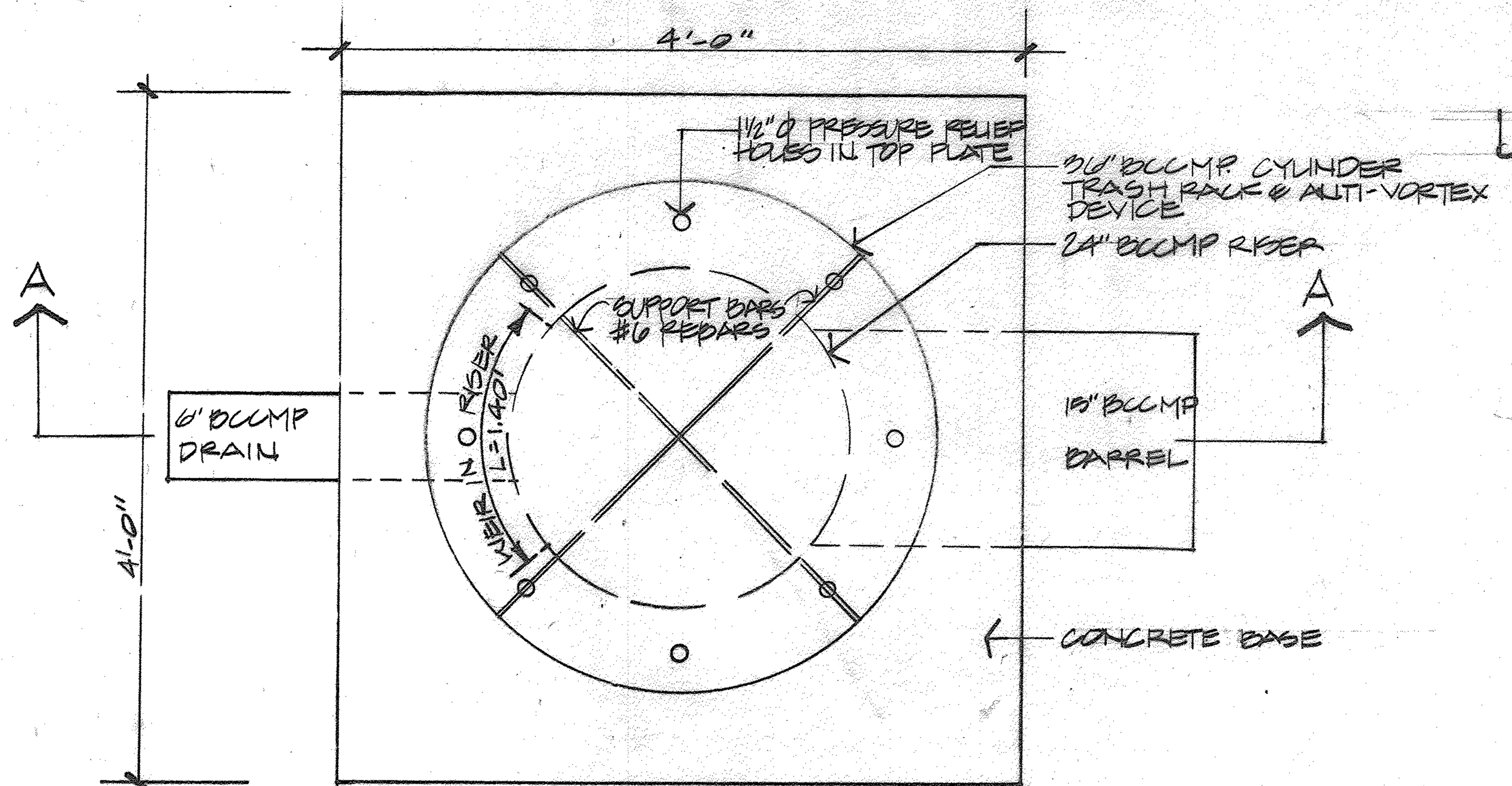
PLAN HEADWALL
SCALE: 1/2"=1'-0"



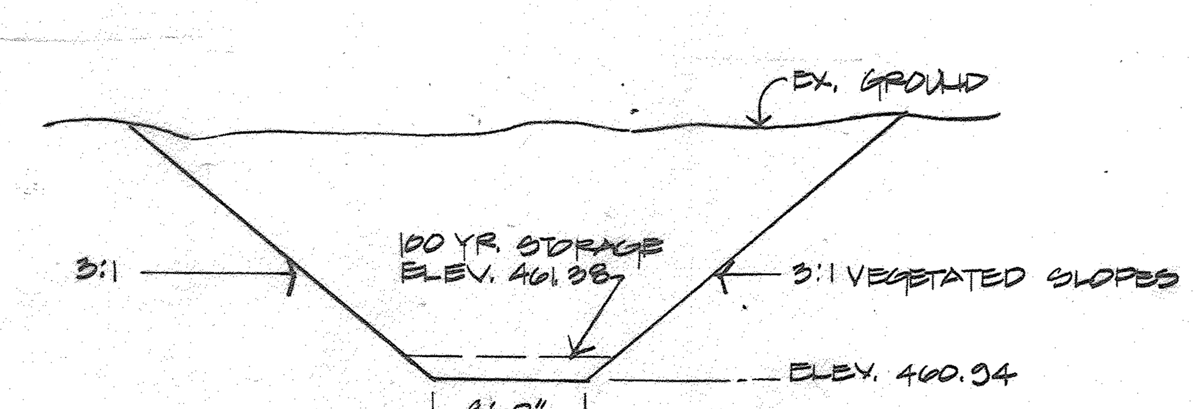
SECTION B-B HEADWALL
SCALE: 1/2"=1'-0"



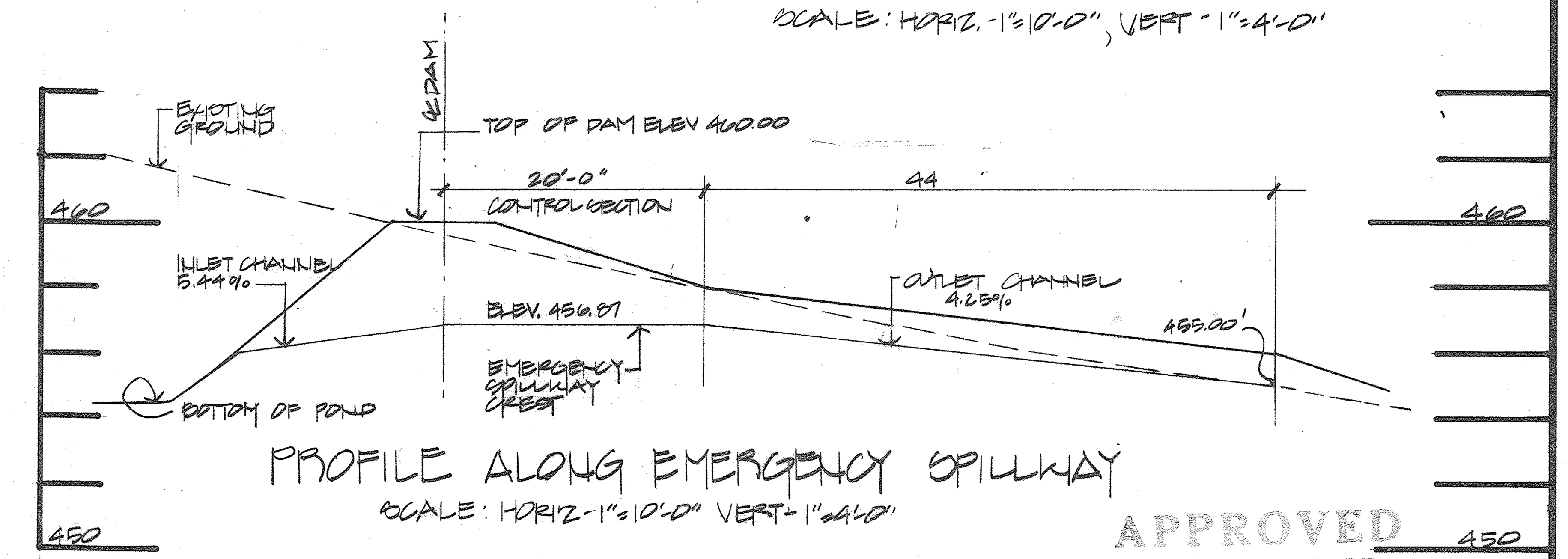
SECTION THRU EMERGENCY SPILLWAY AT CONTROL SECTION
SCALE: HORIZ.-1"=10'-0", VERT-1"=4'-0"



PLAN - RISER, RISER BASE, CONCENTRIC TRASH RACK & ANTI-VORTEX DEVICE
SCALE: 1"=1'-0"



SECTION THRU EMERGENCY SPILLWAY AT CONTROL SECTION
SCALE: HORIZ-1"=10'-0", VERT-1"=4'-0"

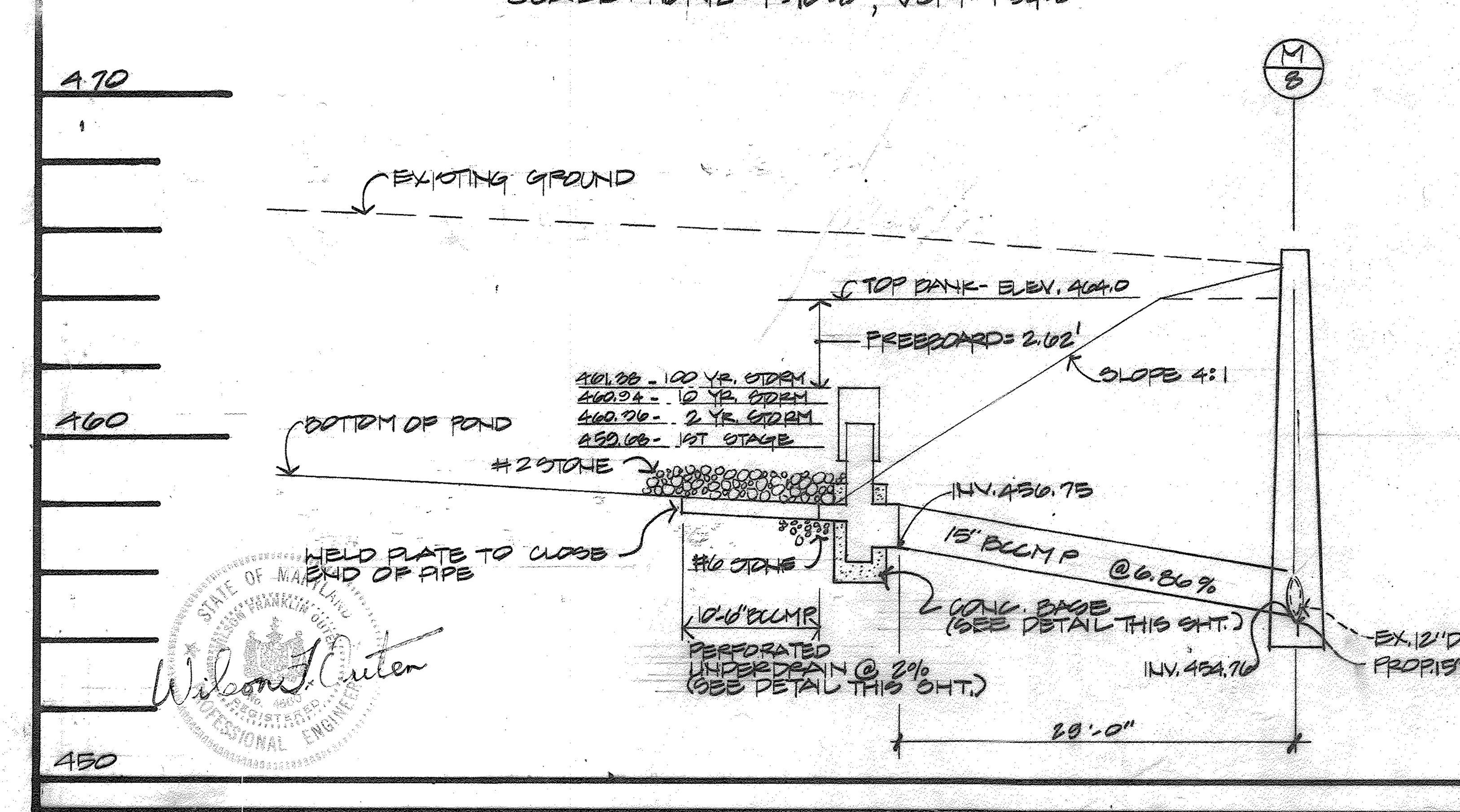


PROFILE ALONG EMERGENCY SPILLWAY
SCALE: HORIZ-1"=10'-0" VERT-1"=4'-0"

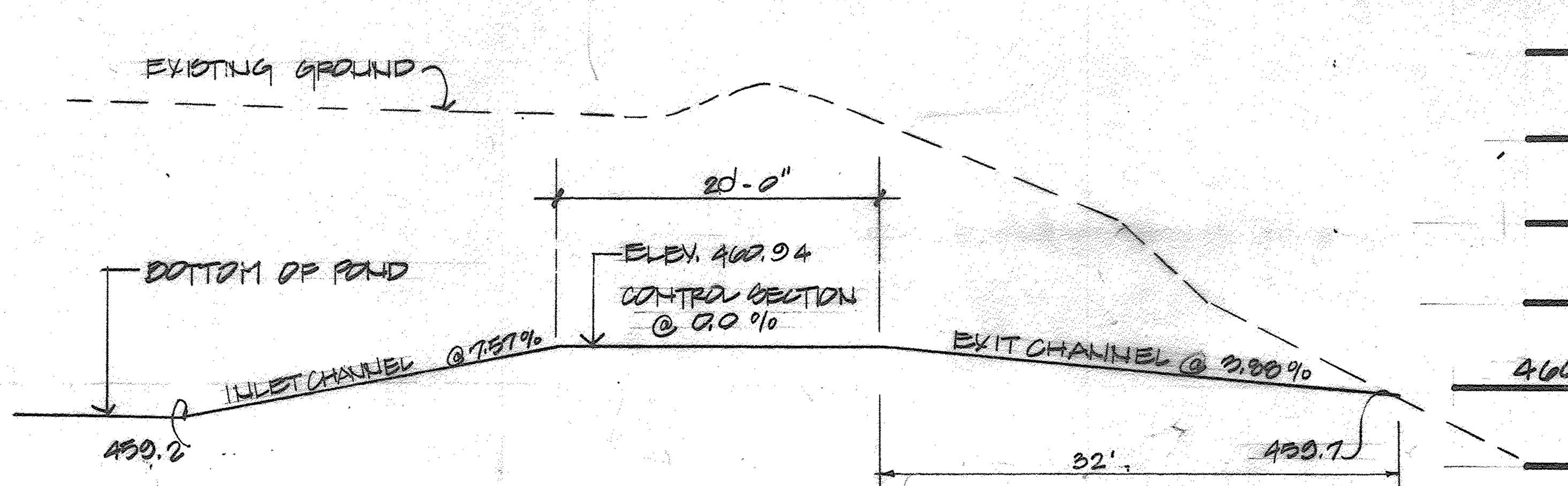
POND A

POND B

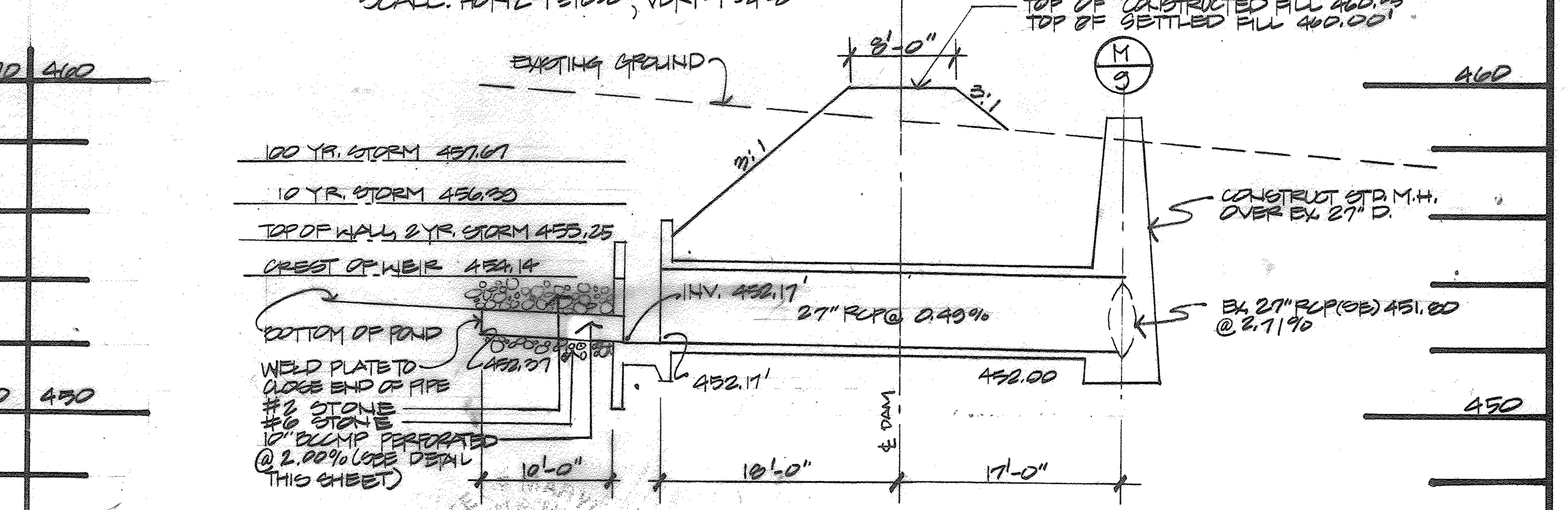
PROFILE ALONG PRINCIPAL SPILLWAY
SCALE: HORIZ-1"=10'-0", VERT-1"=4'-0"



PROFILE ALONG EMERGENCY SPILLWAY
SCALE: HORIZ-1"=10'-0", VERT-1"=4'-0"



PROFILE ALONG PRINCIPAL SPILLWAY
SCALE: HORIZ-1"=10'-0", VERT-1"=4'-0"



APPROVED: For Public Water, Public Sewerage and Storm Drainage Systems and Roads
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
DIRECTOR: George F. Nemeyer DATE: 12-7-79
CHIEF, BUREAU OF ENGINEERING: W D Gilbert DATE: 12-3-79

APPROVED: Howard County Office of Planning and Zoning
PLANNING DIRECTOR: DATE: 12-7-79
CHIEF, DIV. OF LAND DEVELOP. DATE: 12-7-79

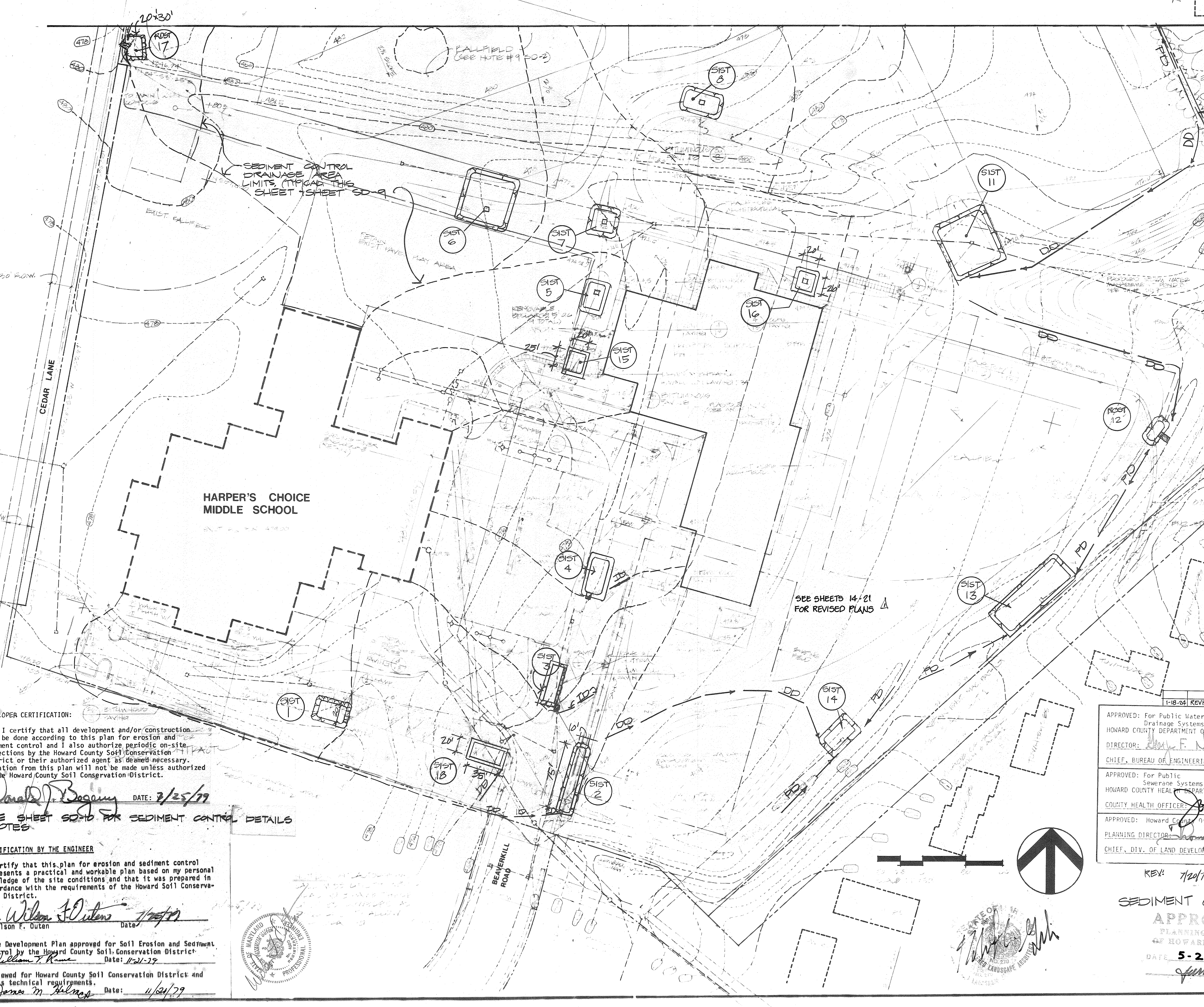
APPROVED: For Public Water and Public Sewerage Systems
HOWARD COUNTY HEALTH DEPARTMENT
COUNTY HEALTH OFFICER: DATE: 12-5-79

HOWARD COUNTY SPECIAL EDUCATION CENTER
Village of Harper's Choice Columbia, Maryland
OWNER & DEVELOPER: HOWARD COUNTY PUBLIC SCHOOL SYSTEM

Browne, Worrall & Johnson / Architects
2435 North Calvert Street Baltimore, Maryland 21218
W. Boulton Kelly, Architectural Consultant, 6229 N Charles St. Baltimore, Maryland
George Evans Associates, Structural, 130 West Hamilton St. Baltimore, Maryland
Daft McCune Walker, Landscape & Civil, 530 E. Joppa Rd. Towson, Maryland
Moore Lewis, Inc., Mechanical & Electrical, 2435 N. Calvert St. Baltimore, Maryland

SD-7 OF 21

SDP-79-125C



DEVELOPER CERTIFICATION:

I certify that all development and/or construction will be done according to this plan for erosion and sediment control and I also authorize periodic on-site inspections by the Howard County Soil Conservation District or their authorized agent as deemed necessary. Deviation from this plan will not be made unless authorized by the Howard County Soil Conservation District.

Donald J. Bogany DATE: 7/25/79

SEE SHEET SD-10 FOR SEDIMENT CONTROL DETAILS & NOTES

CERTIFICATION BY THE ENGINEER

I certify that this plan for erosion and sediment control represents a practical and workable plan based on my personal knowledge of the site conditions and that it was prepared in accordance with the requirements of the Howard Soil Conservation District.

Wilson F. Outen 7/25/79
Wilson F. Outen Date

Site Development Plan approved for Soil Erosion and Sediment Control by the Howard County Soil Conservation District
William T. Rame Date: 11-21-79

Reviewed for Howard County Soil Conservation District and meets technical requirements.
James M. Helmes Date: 11/21/79

1-18-24	REVISED SHEET NUMBER

APPROVED: For Public Water, Public Sewerage and Storm Drainage Systems and Roads
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

DIRECTOR: George F. Neumeyer DATE: 12-3-79

CHIEF, BUREAU OF ENGINEERING: W O Selbert DATE 12-3-79

APPROVED: For Public Water and Public Sewerage Systems
HOWARD COUNTY HEALTH DEPARTMENT

COUNTY HEALTH OFFICER: DATE: 12-5-79

APPROVED: Howard County Office of Planning and Zoning

PLANNING DIRECTOR: DATE: 12-7-79

CHIEF, DIV. OF LAND DEVELOP 12-7-79

REV: 7/20/79

SEDIMENT CONTROL PLAN

APPROVED
PLANNING BOARD
OF HOWARD COUNTY
DATE 5-23-79

HOWARD COUNTY SPECIAL EDUCATION CENTER

OWNER & DEVELOPER: HOWARD COUNTY PUBLIC SCHOOL SYSTEM

Village of Harper's Choice
Columbia, Maryland

BLDG. ADDIT. TO SDP 72-42 VHC, G/2, OS LOT 3 PLAT BOOK 20/40

Browne, Worrall & Johnson / Architects
2435 North Calvert Street
Baltimore, Maryland 21218

W. Boulton Kelly, Architectural Consultant, 6229 N Charles St. Baltimore, Maryland
Deft McCune Walker, Landscape & Civil, 530 E. Joppa Rd. Towson, Maryland
George Evans Associates, Structural, 130 West Hamilton St. Baltimore, Maryland
Moore Lewis, Inc, Mechanical & Electrical, 2435 N. Calvert St. Baltimore, Maryland

SD-8 OF 21

SDP-79-125C

SEDIMENT TRAP SCHEDULE

TRAP NO	TYPE	DRAINAGE AREA (AC)	STORAGE REQUIRED (CU FT)	STORAGE PROVIDED (CU FT)	BOTTOM OF TRAP DIMENSIONS (FT)	DEPTH (FT)
1	STORM INLET (SIST)	0.94	1692	1760	20 x 32	2
2	" " "	1.24	2232	2244	10 x 75	"
3	" " "	0.81	1458	1504	12 x 42	"
4	" " "	1.06	1908	2144	20 x 40	"
5	" " "	0.90	1620	1664	20 x 30	"
6	" " "	3.33	5994	6304	52 x 52	"
7	" " "	0.98	1764	1832	26 x 26	"
8	" " "	1.10	1980	2144	20 x 40	"
9	RIPRAP OUTLET (ROST)	2.61	4698	5024	35 x 60 OUTLET LENGTH = 16'	"
10	RIPRAP OUTLET (ROST)	2.02	3636	3744	25 x 60 OUTLET LENGTH = 13'	"
11	STORM INLET (SIST)	4.14	7452	7584	55 x 60	"
12	RIPRAP OUTLET (ROST)	0.41	738	844	25 x 10 OUTLET LENGTH = 6'	"
13	STORM INLET (SIST)	3.64	6552	6764	30 x 95	"
14	" " "	1.05	1890	1904	20 x 35	"
15	" " "	.50	900	1000	20 x 25	"
16	" " "	.42	756	800	20 x 20	"
17	RIPRAP OUTLET (ROST)	.61	1098	1200	20 x 30	"
18	STORM INLET (SIST)	.71	1278	1400	20 x 35	"
19	RIPRAP OUTLET (ROST)	.67	1206	1250	25 x 25	"

Sequence of Operations

1. Notify Howard County Department of Inspections and Permits at least 72 hours before any work begins (Ph. 992-2436).
2. Construct Storm Water Management Ponds, install new storm drain systems and modifications to existing drains, install all sediment control devices such as traps, dikes, etc.
3. Rough grade site.
4. Fine grade and place sub-base on parking and drive areas.
5. Begin construction of building.
6. Stabilize all disturbed soil outside of building area.
7. Remove sediment control measures and stabilize area. (After approval by Howard Soil Conservation District.)
8. Pave parking areas.
9. Seeding, fertilizing and mulching shall be as follows:

   Seed - 30% Adelphi Kentucky Bluegrass
   30% Marion Kentucky Bluegrass
   30% South Dakota Bluegrass
   10% Birka Kentucky Bluegrass
   At 50 to 60 lbs. per acre.
   Fertilizer - 500 lbs. of 10-10-10 per acre
   Lime - 2,500 lbs. per acre
   Mulch - Straw to a depth of 1-2 inches
   Anchoring - Asphalt Binder

   (Note: Where 2:1 slopes are necessary, sod with same mix as above.)

GENERAL NOTES

1. Refer to the "Standards and Specifications for Soil Erosion and Sediment Control in Developing Areas" for detailed specifications for each practice.
2. During the layout of the sediment control practices required on this plan, minor field adjustments can and will be made to assure the arrest and control of any sediment before it leaves the construction site. Sediment control practice changes require prior approval of the Sediment Control Inspector and the Howard Soil Conservation District.
3. At the end of each working day, all sediment control practices will be inspected and left in an operational condition.

Sit
Con

CERTIFICATION BY THE ENGINEER

I certify that this plan for erosion and sediment control represents a practical and workable plan based on my personal knowledge of the site conditions and that it was prepared in accordance with the requirements of the Howard Soil Conservation District.

Wilson F. Outen 7/25/79
Wilson F. Outen — Date

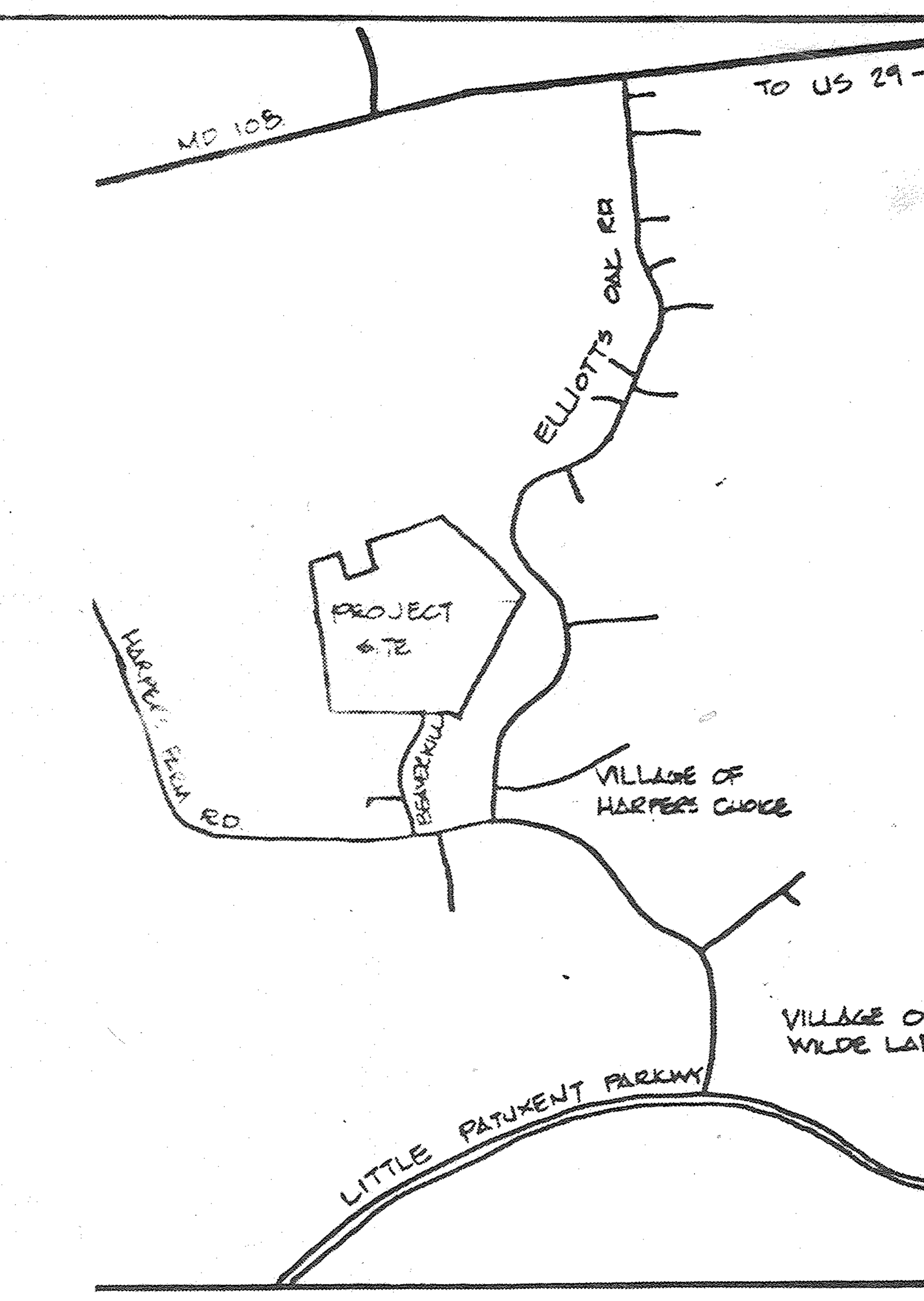
Site Development Plan approved for Soil Erosion and Sediment Control by the Howard County Soil Conservation District
William T. Rowe Date: 11-21-29

Reviewed for Howard County Soil Conservation District and meets technical requirements.
James M. Helmer Date: 11/21/79

DEVELOPER CERTIFICATION:

I certify that all development and/or construction will be done according to this plan for erosion and sediment control and I also authorize periodic on-site inspections by the Howard County Soil Conservation District or their authorized agent as deamed necessary. Deviation from this plan will not be made unless authorized by the Howard County Soil Conservation District.

Donald J. Bogeny DATE: 7/25/79

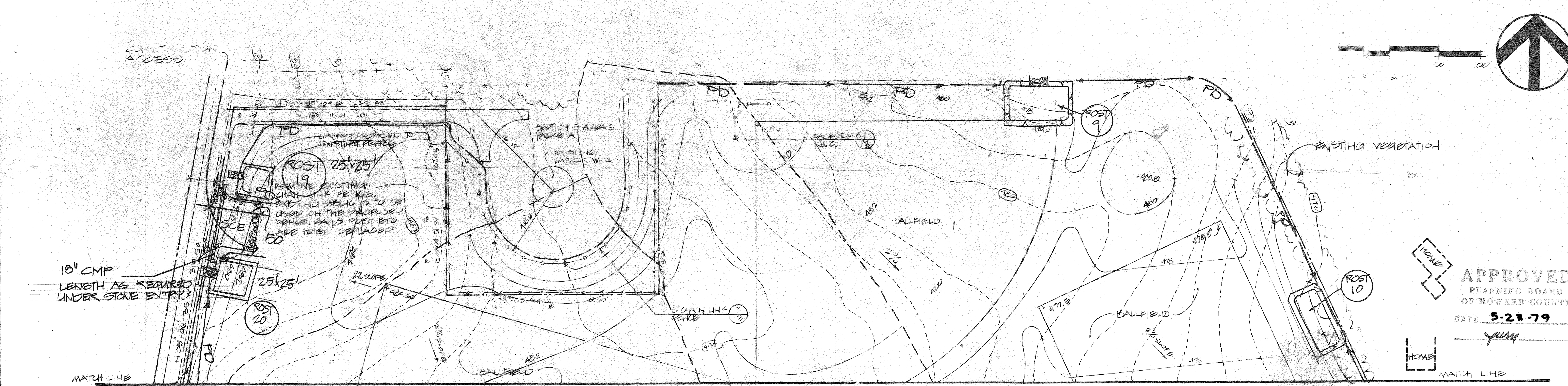


Vicinity Sketch

APPROVED: For Public Water, Public Sewerage and Storm Drainage Systems and Roads
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
DIRECTOR: [signature] DATE: 12-3-79
CHIEF, BUREAU OF ENGINEERING: [signature] DATE: 12-3-79

APPROVED: For Public Water and Public Sewerage Systems
HOWARD COUNTY HEALTH DEPARTMENT
COUNTY HEALTH OFFICER: [signature] DATE: 12-5-79

APPROVED: Howard County Office of Planning and Zoning
PLANNING DIRECTOR [signature] DATE: 12-7-79
CHIEF, DIV. LAND DEV. John W. Musselman DATE: 12-7-79



REVISED: 7/10/79
REVISED 6/6/79 DMW/WJA

SEDIMENT CONTROL PLAN
HOWARD COUNTY
SPECIAL EDUCATION CENTER
VILLAGE OF HARPERS CHOICE COLUMBIA, MD.
SECTION 6 AREA 2
PLAT BOOK 23 FOLIO 64

TAX MAP NO. 29 PARCEL NO. 69
ELECTION DISTRICT NO. 5 HOWARD COUNTY, MARYLAND
SCALE: 1"=50' APRIL 11, 1979

HOWARD COUNTY SPECIAL EDUCATION CENTER
OWNER & DEVELOPER: HOWARD COUNTY PUBLIC SCHOOL SYSTEM
Village of Harper's Choice
Columbia, Maryland

Browne, Worrall & Johnson / Architects
2435 North Calvert Street
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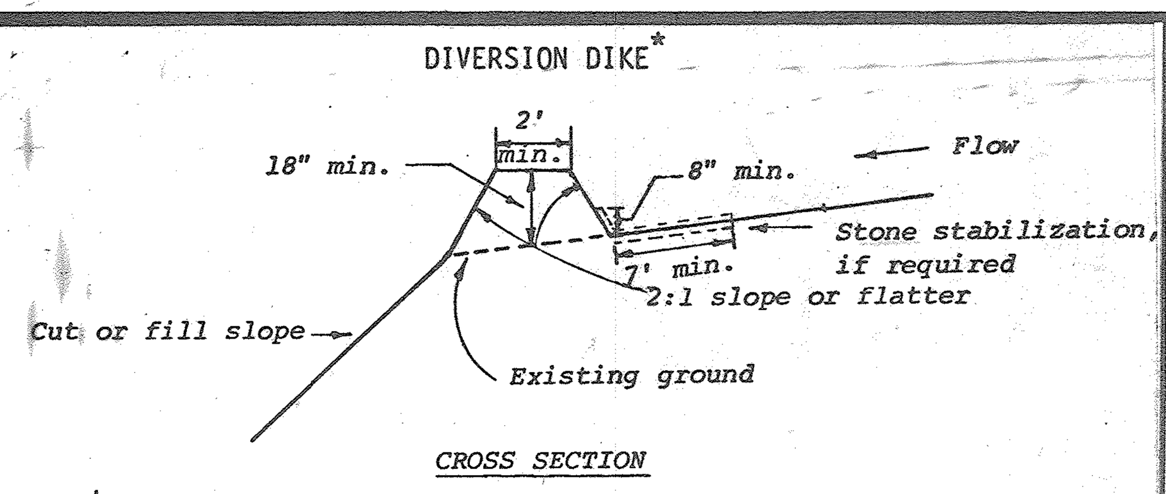
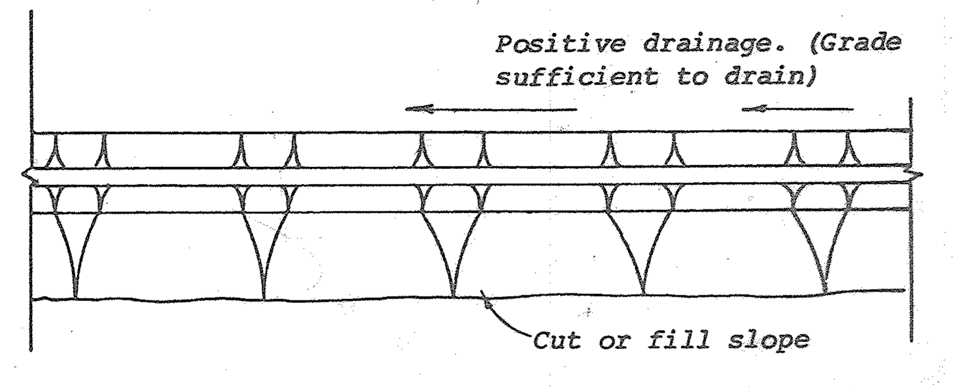
SD-9
OF 21

SDP-79-125c

DIVERSION DIKE*





Construction Specifications.

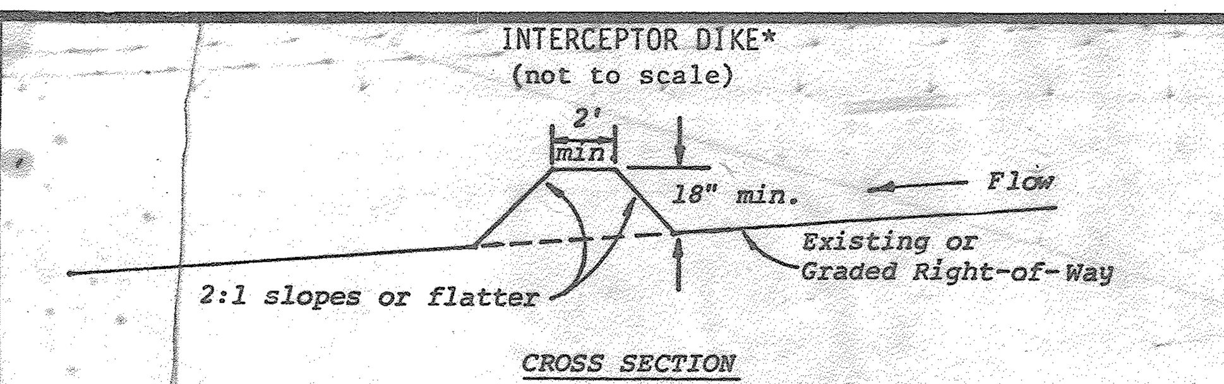
1. All dikes shall be machine compacted.
2. All diversion dikes shall have positive drainage to an outlet.
3. A. Diverted runoff from a protected or stabilized area shall outlet directly to an undisturbed stabilized area or into a level spreader or grade stabilization structure.
   B. Diverted runoff from a disturbed or exposed upland area shall be conveyed to a sediment trapping device such as a sediment trap or a sediment basin or to an area protected by any of these practices.
4. Stabilization, as specified by the plans, shall be: (1) in accordance with Standard and Specifications for Grassed Waterway, and the area to be stabilized shall be the channel (flow area); or (2) the flow area shall be lined with stone that meets MSHA size No. 2 or AASHTO M43 size No. 2 or 24 which is placed in a 3 inch thick layer and pressed into the soil. The area covered by the stone shall be as shown on the drawing above.
5. Periodic inspection and required maintenance shall be provided.

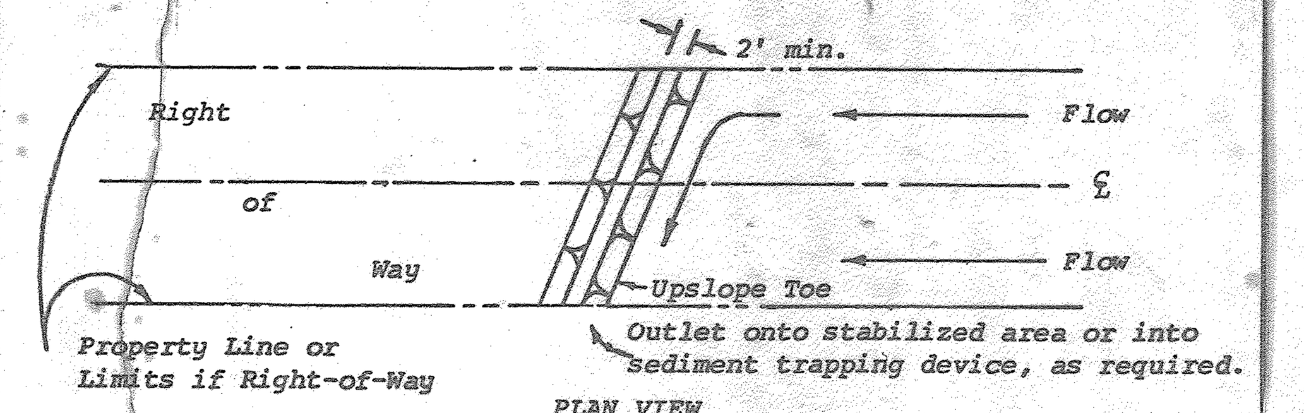
Standard Symbol DD

* Drainage area less than 5 acres

U. S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE College Park, Md.	DIVERSION DIKE	Standard Drawing DD-1

INTERCEPTOR DIKE*
(not to scale)





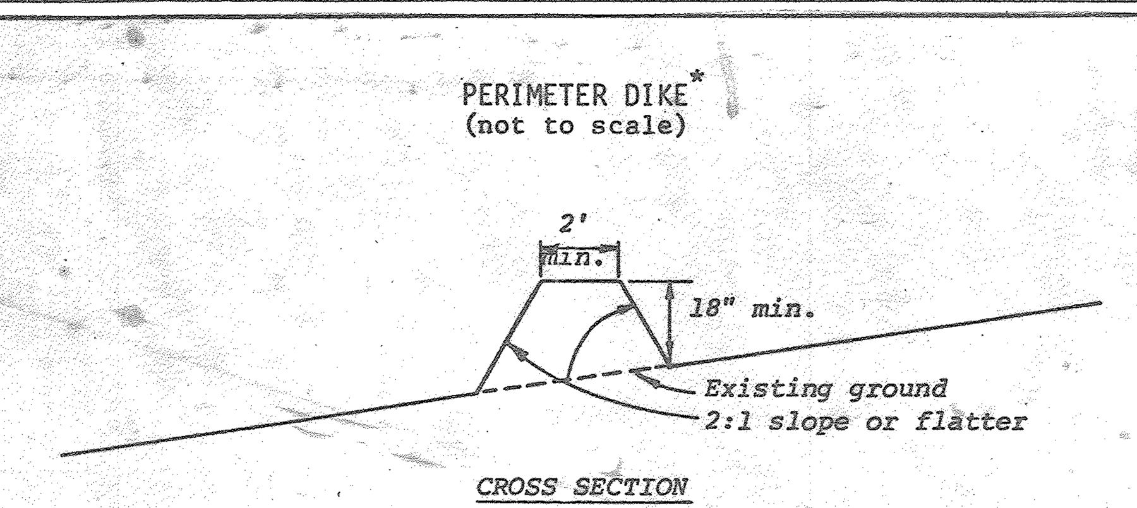
Construction Specifications

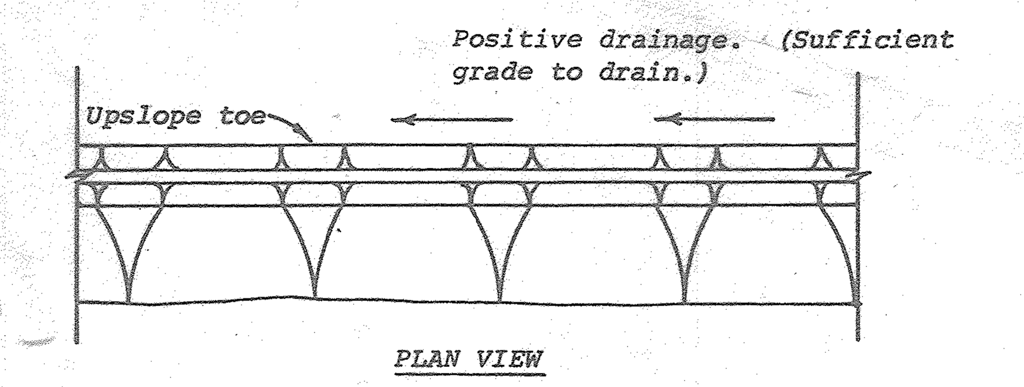
1. All dikes shall be machine compacted.
2. All interceptor dikes shall have positive drainage to an outlet.
3. Top width may be wider and side slopes may be flatter if desired to facilitate crossing by construction traffic.
4. Field location should be adjusted as needed to utilize a stabilized safe outlet.
5. Interceptor dikes shall have an outlet that functions with a minimum of erosion. Runoff shall be conveyed to a sediment trapping device such as a sediment trap or sediment basin when either the interceptor dike channel or the drainage area above the dike are not adequately stabilized.
6. Stabilization, as specified by the plans, shall be: (1) in accordance with Standard and Specifications for Grassed Waterway, and the area to be stabilized shall be the channel (flow area); or (2) the flow area shall be lined with stone that meets MSHA size No. 2 or AASHTO size No. 2 or 24 which is placed in a 3 inch thick layer and pressed into the soil. The area covered by the stone shall be as shown on Standard Drawing DD-1.
7. Periodic inspection and required maintenance must be provided.

* Drainage area less than 5 acres. Standard Symbol ID

U. S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE College Park, Md.	INTERCEPTOR DIKE	Standard Drawing ID-1

PERIMETER DIKE*
(not to scale)





Construction Specifications

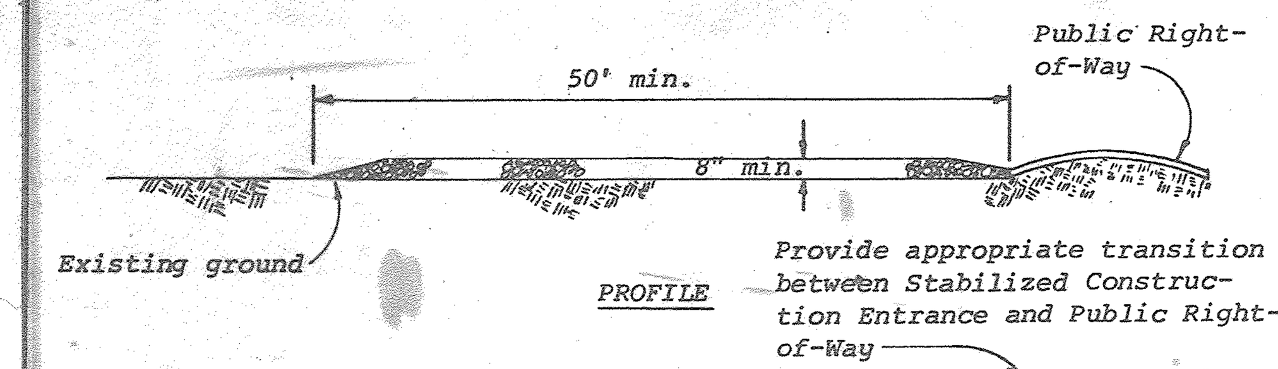
1. All dikes shall be machine compacted.
2. All perimeter dikes shall have positive drainage to an outlet.
3. A. Diverted runoff from a protected or stabilized upland area shall outlet directly onto an undisturbed stabilized area or into a level spreader or grade stabilization structure.
   B. Diverted runoff from a disturbed or exposed upland area shall be conveyed to a sediment trapping device such as sediment trap or a sediment basin or to an area protected by any of these practices.
4. Stabilization, when required, shall be done in accordance with Standard and Specifications for Grassed Waterway. The minimum area to be stabilized shall be the channel flow area.
5. Periodic inspection and required maintenance shall be provided.

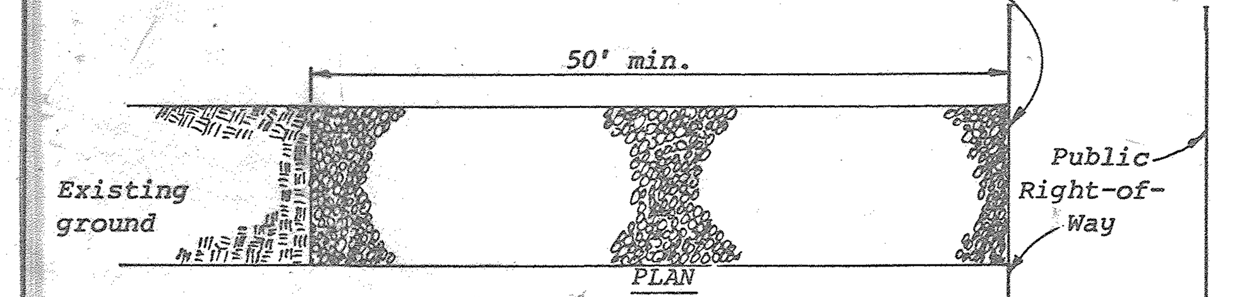
Standard Symbol PD

* Drainage area less than 5 acres

U. S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE College Park, Md.	PERIMETER DIKE	Standard Drawing PD-1

STABILIZED CONSTRUCTION ENTRANCE
(not to scale)



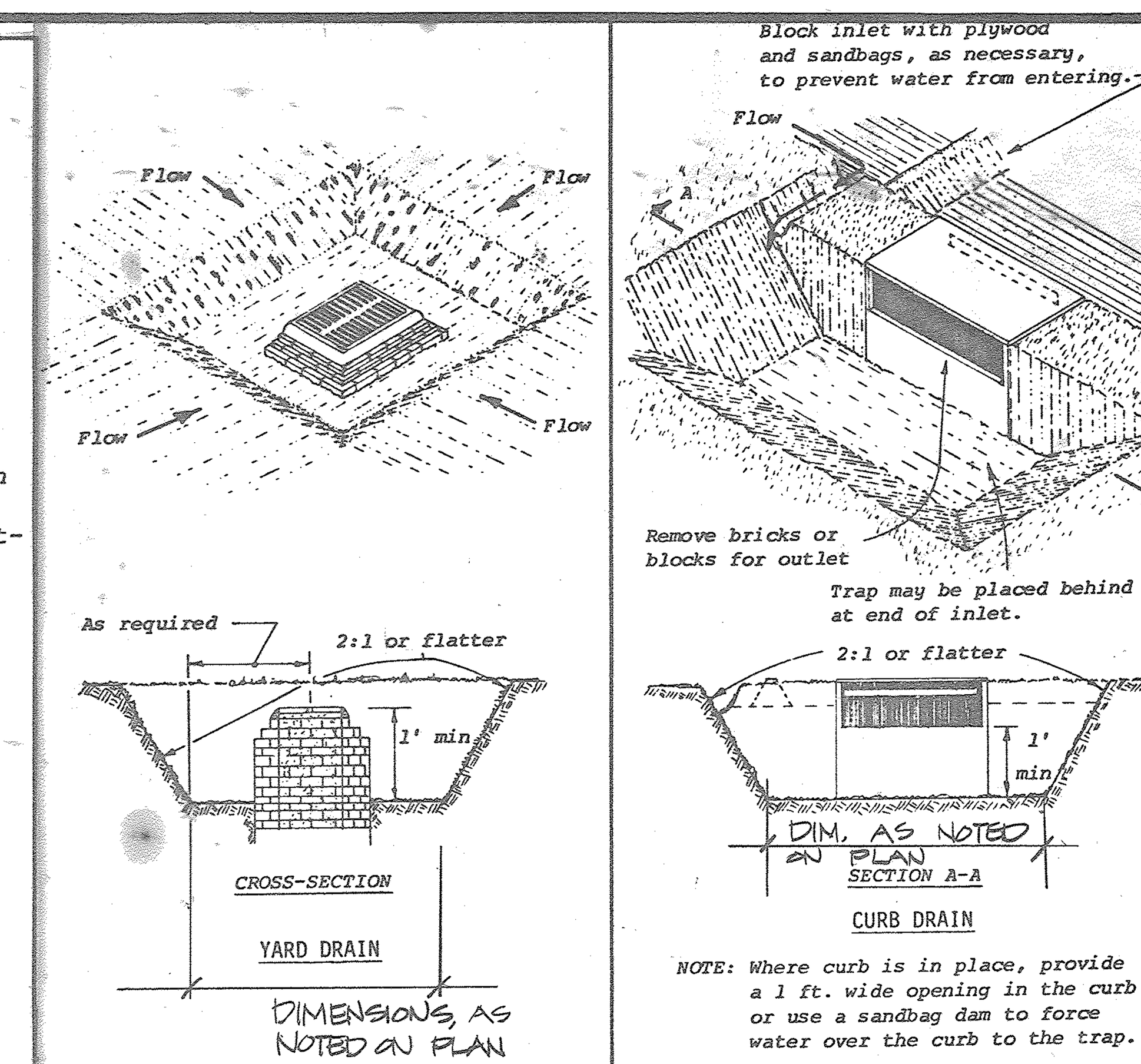


Construction Specifications

1. Stone size - Use MSHA size No. 2 (2-1/2" to 1") or AASHTO designation M43, size No. 2 (2-1/2" to 1-1/2"). Use crushed stone.
2. Length - As effective, but not less than 50 feet.
3. Thickness - Not less than eight (8) inches.
4. Width - Not less than full width of all points of ingress or egress.
5. Washing - When necessary, wheels shall be cleaned to remove sediment prior to entrance onto public right-of-way. When washing is required, it shall be done on an area stabilized with crushed stone which drains into an approved sediment trap or sediment basin. All sediment shall be prevented from entering any storm drain, ditch, or watercourse through use of sand bags, gravel, boards or other approved methods.
6. 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.

Standard Symbol SCE

U. S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE College Park, Md.	STABILIZED CONSTRUCTION ENTRANCE	Standard Drawing SCE-1



NOTE: Where curb is in place, provide a 1 ft. wide opening in the curb or use a sandbag dam to force water over the curb to the trap.

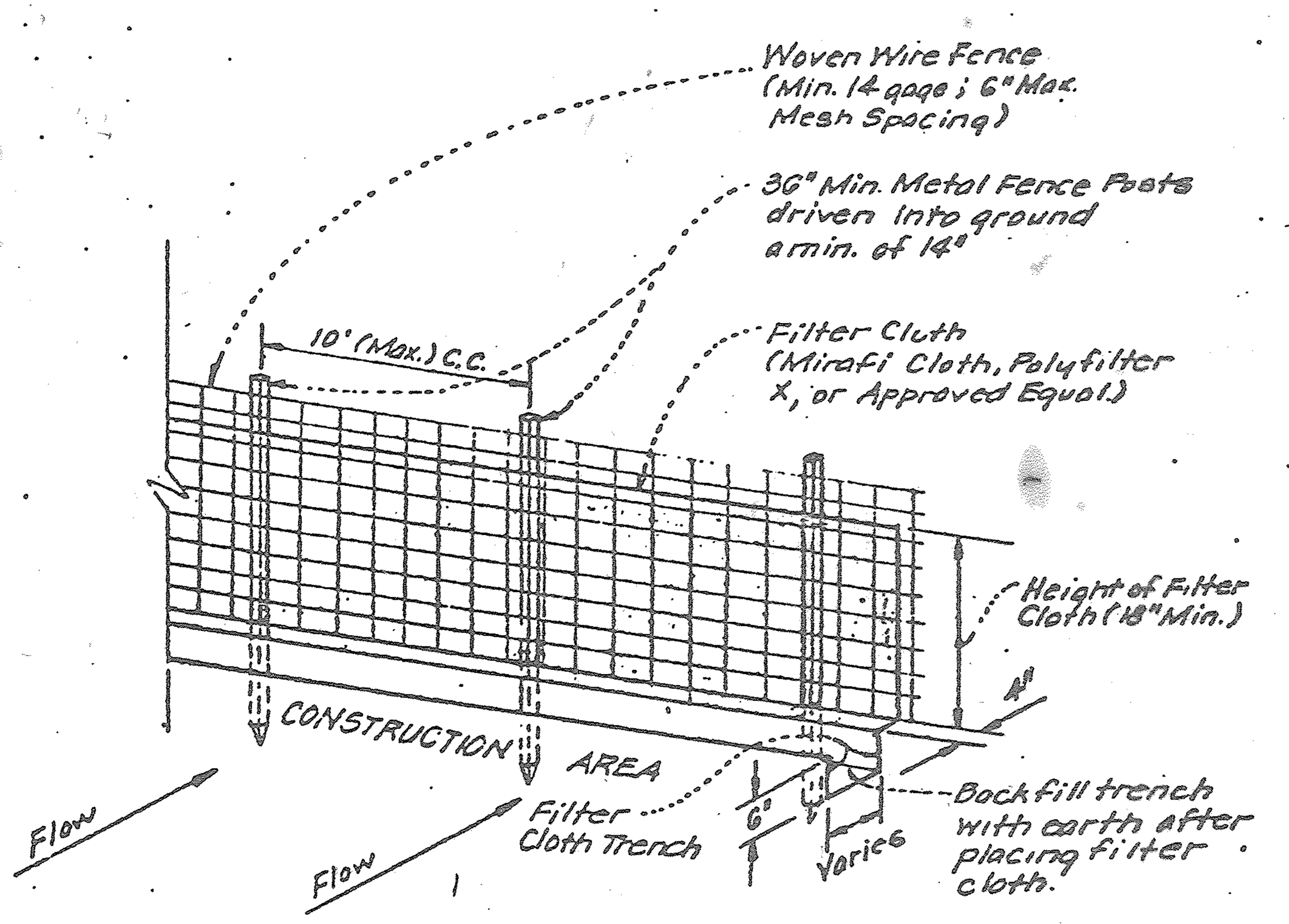
CONSTRUCTION SPECIFICATIONS

1. 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.
2. The structure shall be inspected after each rain and repairs made as needed.
3. Construction operations shall be carried out in such a manner that erosion and water pollution shall be minimized.
4. The sediment trap shall be removed and area stabilized when the remaining drainage area has been properly stabilized.
5. All cut and fill slopes shall be 2:1 or flatter.

STD. SYMBOL: SIST

*Drainage area less than 5 acres.

U. S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE College Park, Md.	STORM INLET SEDIMENT TRAP	Standard Drawing ST-4



SILT FENCE DETAIL (OPTIONAL)

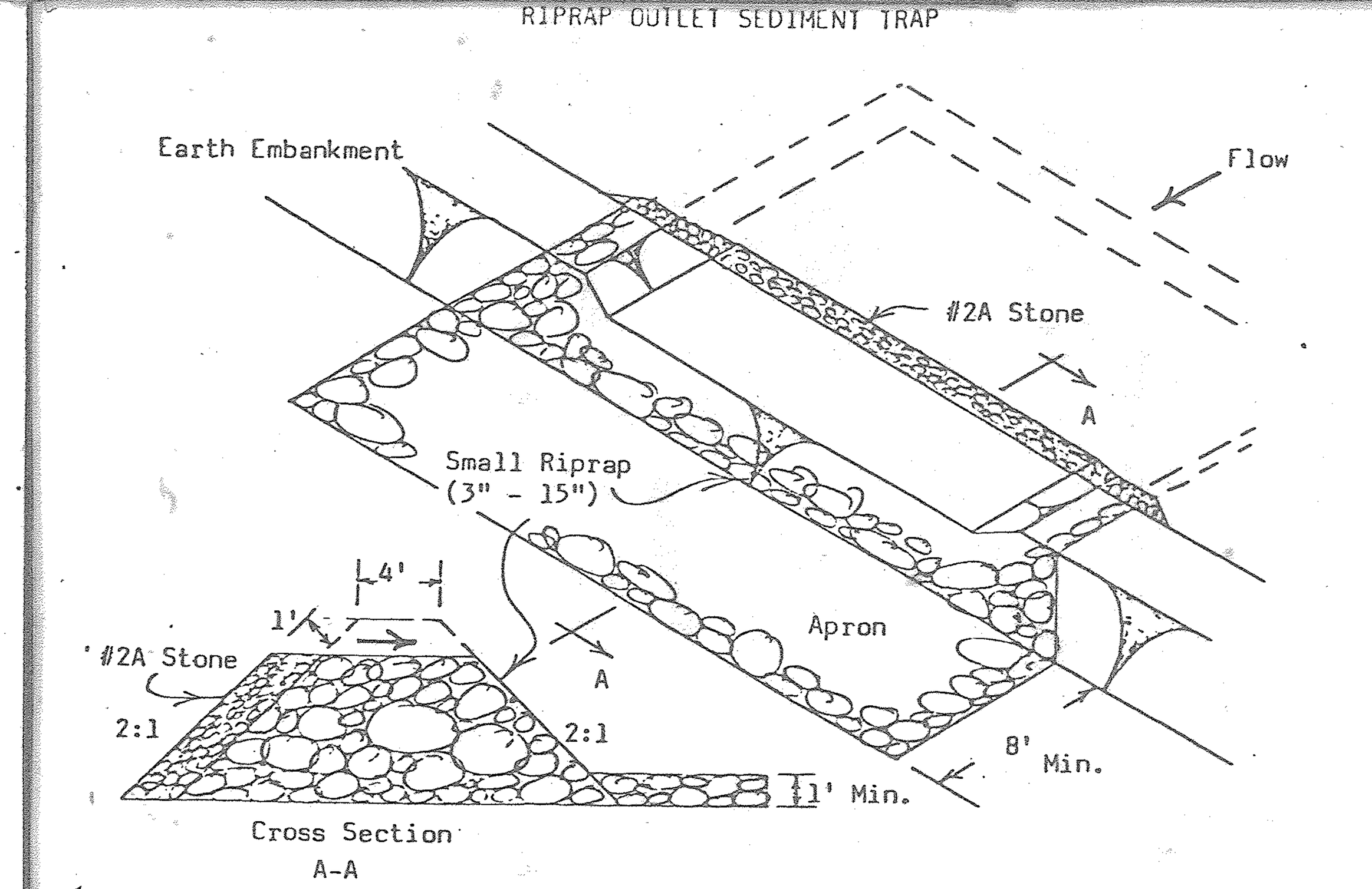
No Scale

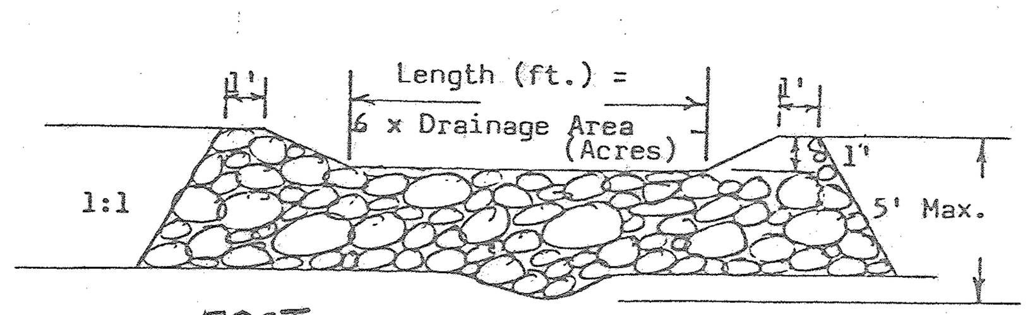
STD SYM: SILT FENCE

Notes:

1. Woven Wire fence to be fastened securely to fence posts by use of wire ties.
2. Filter Cloth to be fastened securely to woven wire fence by use of wire ties spaced every 24" 24".
3. Silt fence to be placed in lieu of straw bales and/or diversion dikes at the option of the developer.

RIPRAP OUTLET SEDIMENT TRAP





STD SYM: ROST

Construction Specifications

The construction specifications for this practice will be the same as the Stone Outlet Sediment Trap except for the following:

1. The stone used in the outlet shall be small riprap 3"- 15", with a 1' thickness of #2-A crushed stone placed on the up-grade side of the small riprap.
2. Drainage area for this practice is limited to 3 acres or less.

APPROVED: For Public Water, Public Sewerage and Storm Drainage Systems and Roads
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
DIRECTOR: George F. Neimeyer DATE: 12-3-79
CHIEF, BUREAU OF ENGINEERING: WOFsilbert DATE: 12-3-79

APPROVED: For Public Water and Public Sewerage Systems
HOWARD COUNTY HEALTH DEPARTMENT
COUNTY HEALTH OFFICER: [signature] DATE: 12-5-79

APPROVED: Howard County Office of Planning and Zoning
PLANNING DIRECTOR: [signature] DATE: 12-7-79
CHIEF, DIV. OF LAND DEVELOP. [signature] DATE: 12-7-79

APPROVED PLANNING BOARD OF HOWARD COUNTY
DATE 5-23-79

SEDIMENT CONTROL DETAILS
HOWARD COUNTY
SPECIAL EDUCATION CENTER
VILLAGE OF HARPERS CHOICE COLUMBIA, MD.
SECTION 6 AREA 2
PLAT BOOK 23 FOLIO 64

TAX MAP NO. 29 PARCEL NO. 69
ELECTION DISTRICT NO. 5 HOWARD COUNTY, MARYLAND
SCALE: NONE APRIL 11, 1979

HOWARD COUNTY SPECIAL EDUCATION CENTER
Columbia, Maryland
Village of Harper's Choice
OWNER & DEVELOPER: HOWARD COUNTY PUBLIC SCHOOL SYSTEM

BLDG. ADDIT. TO SDP-72-62
VHC, 6/2, 05, LOT 3
PLAT BOOK
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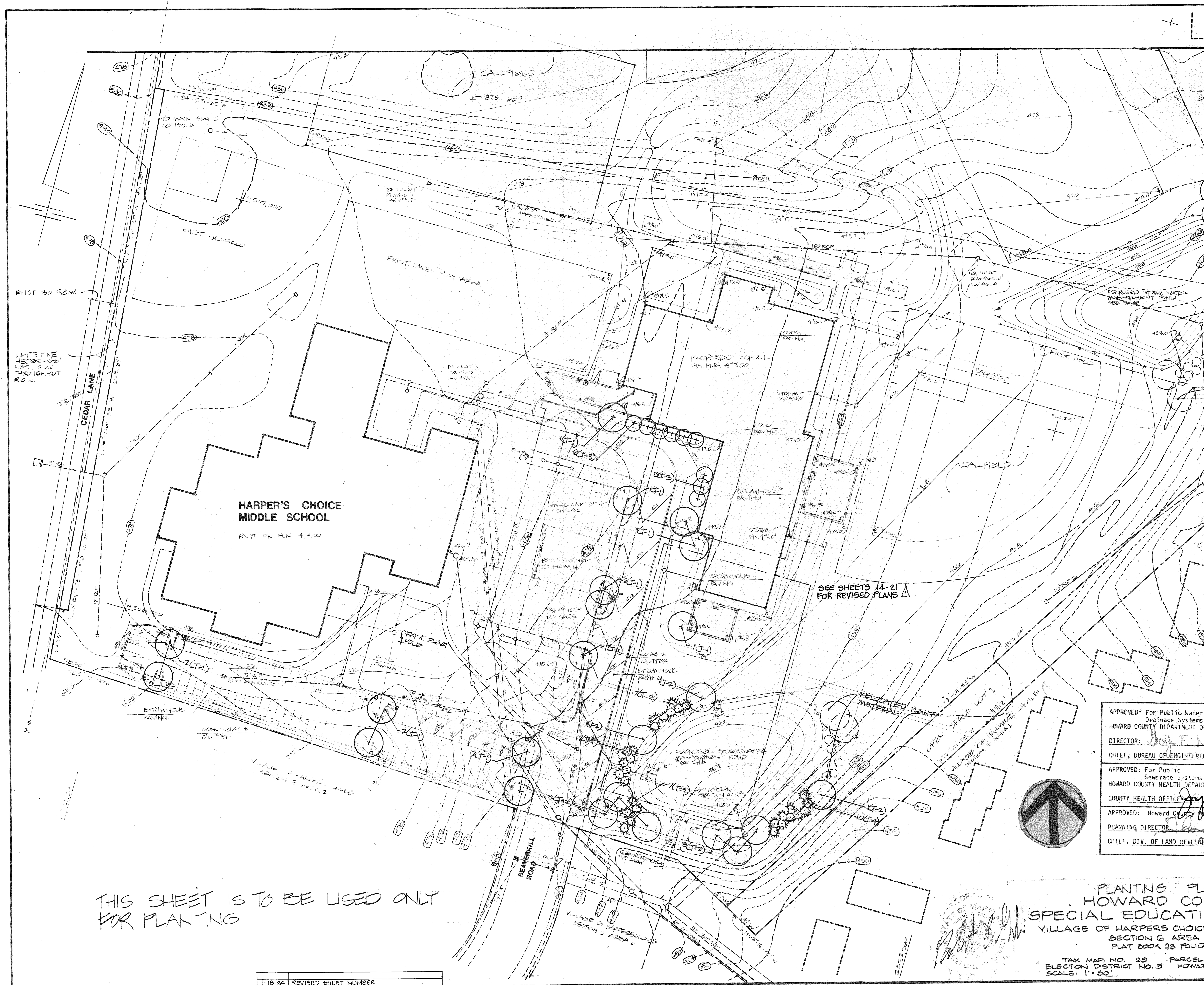
W. Boulton Kelly, Architectural Consultant, 6229 N. Charles St. Baltimore, Maryland
George Evans Associates, Structural, 130 West Hamilton St. Baltimore, Maryland
Daft McCune Walker, Landscape & Civil, 530 E. Joppa Rd. Towson, Maryland
Moore Lewis, Inc., Mechanical & Electrical, 2435 N. Calvert St. Baltimore, Maryland

SD-10 OF 21

SDP-79-125c



APPROVED
PLANNING BOARD
OF HOWARD COUNTY
DATE 5-23-79

APPROVED: For Public Water, Public Sewerage and Storm Drainage Systems and Roads
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
DIRECTOR: DATE: 12-3-79
CHIEF, BUREAU OF ENGINEERING: DATE: 12-3-79

APPROVED: For Public Water and Public Sewerage Systems
HOWARD COUNTY HEALTH DEPARTMENT
COUNTY HEALTH OFFICER: DATE: 12-5-79

APPROVED: Howard County Office of Planning and Zoning
PLANNING DIRECTOR: DATE: 12-7-79
CHIEF, DIV. OF LAND DEVELOP: DATE: 12-7-79

PLANTING PLAN
HOWARD COUNTY SPECIAL EDUCATION CENTER

VILLAGE OF HARPERS CHOICE COLUMBIA, MD.
SECTION 6 AREA 2
PLAT BOOK 23 FOLIO 64

TAX MAP NO. 29 PARCEL NO. 69
ELECTION DISTRICT NO. 5 HOWARD COUNTY, MARYLAND
SCALE: 1"=50' APRIL 11, 1979.

1-18-84	REVISED SHEET NUMBER

HOWARD COUNTY
SPECIAL EDUCATION CENTER
OWNER & DEVELOPER: HOWARD COUNTY PUBLIC SCHOOL SYSTEM
Village of Harper's Choice Columbia, Maryland

BLDG. ADDIT. TO SDP-72-62
VHC, 6/2, OS LOT 3
PLAT BOOK
FOLIO

Browne, Worrall & Johnson / Architects
2435 North Calvert Street Baltimore, Maryland 21218
W. Boulton Kelly, Architectural Consultant, 6229 N. Charles St. Baltimore, Maryland
George Evans Associates, Structural, 130 West Hamilton St. Baltimore, Maryland
Daft McCune Walker, Landscape & Civil, 530 E. Joppa Rd. Towson, Maryland
Moore Lewis, Inc., Mechanical & Electrical, 2435 N. Calvert St. Baltimore, Maryland

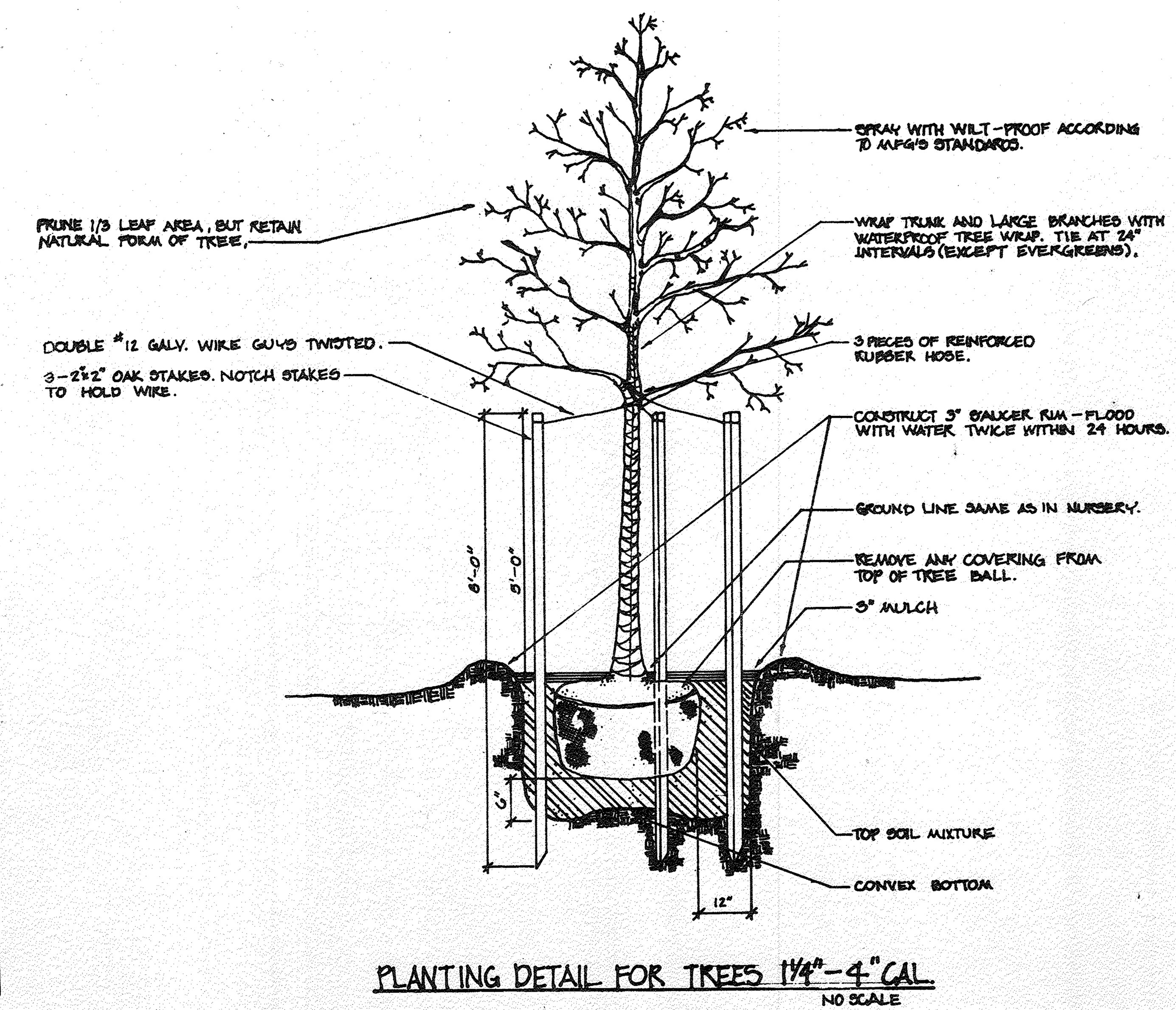
SD-11
OF 21

SDP-79-125C

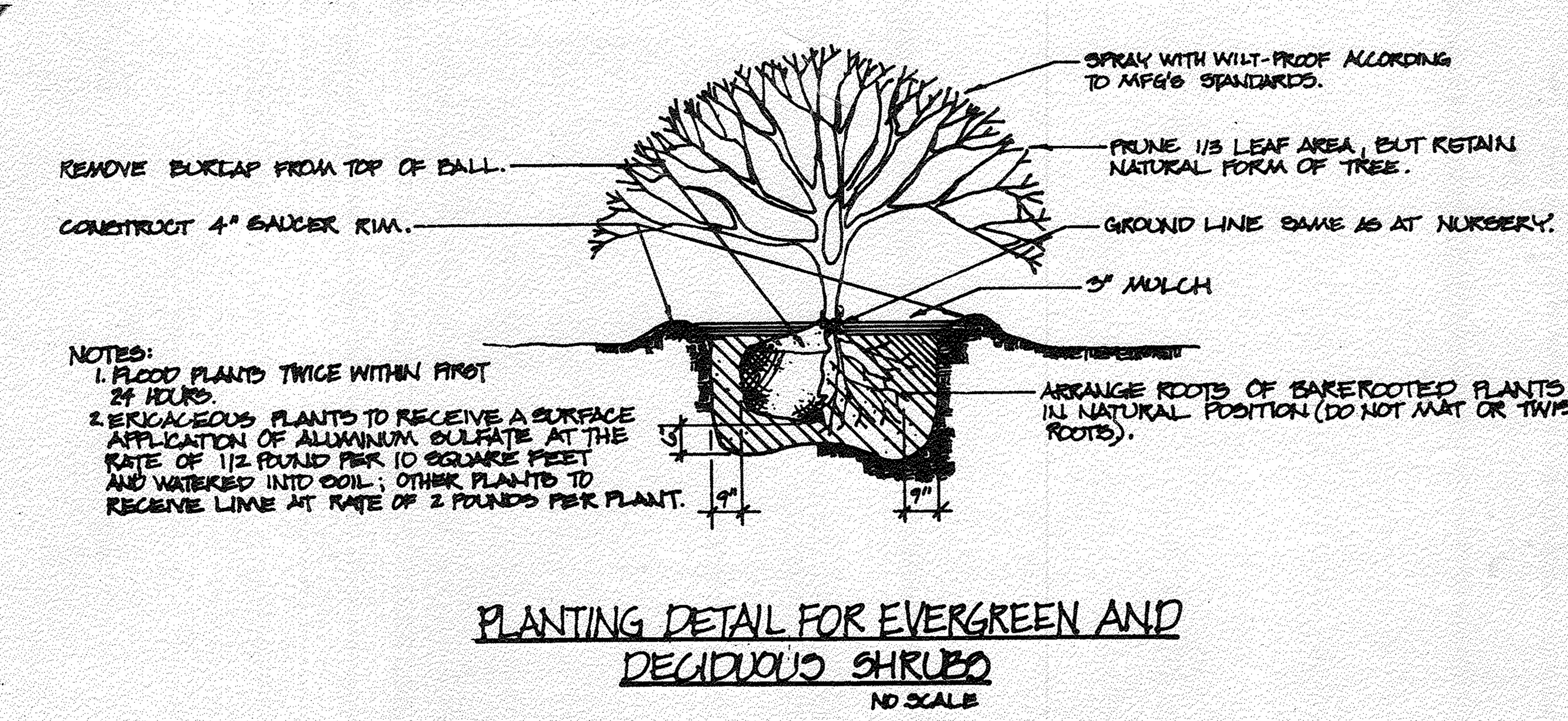
PLANT LIST

KEY	QUAN.	BOTANICAL NAME / COMMON NAME	SIZE	COND.	REMARKS
T-1	14	ZELKOVA SERRATA / JAPANESE ZELKOVA	2-2½" CAL.	B & B	
T-2	12	ACER RUBRUM / RED MAPLE	2-2½" CAL.	B & B	
T-3	6	CRATAEGUS PHENOPYRUM / WASHINGTON HAWTHORN	8-10' HGT.	B & B	
T-4	42	PINUS STROBUS / WHITE PINE	4-5' HGT.	B & B	
T-5	3	PYRUS CALLERYANA / BRADFORD PEAR	1½-2" CAL.	B & B	

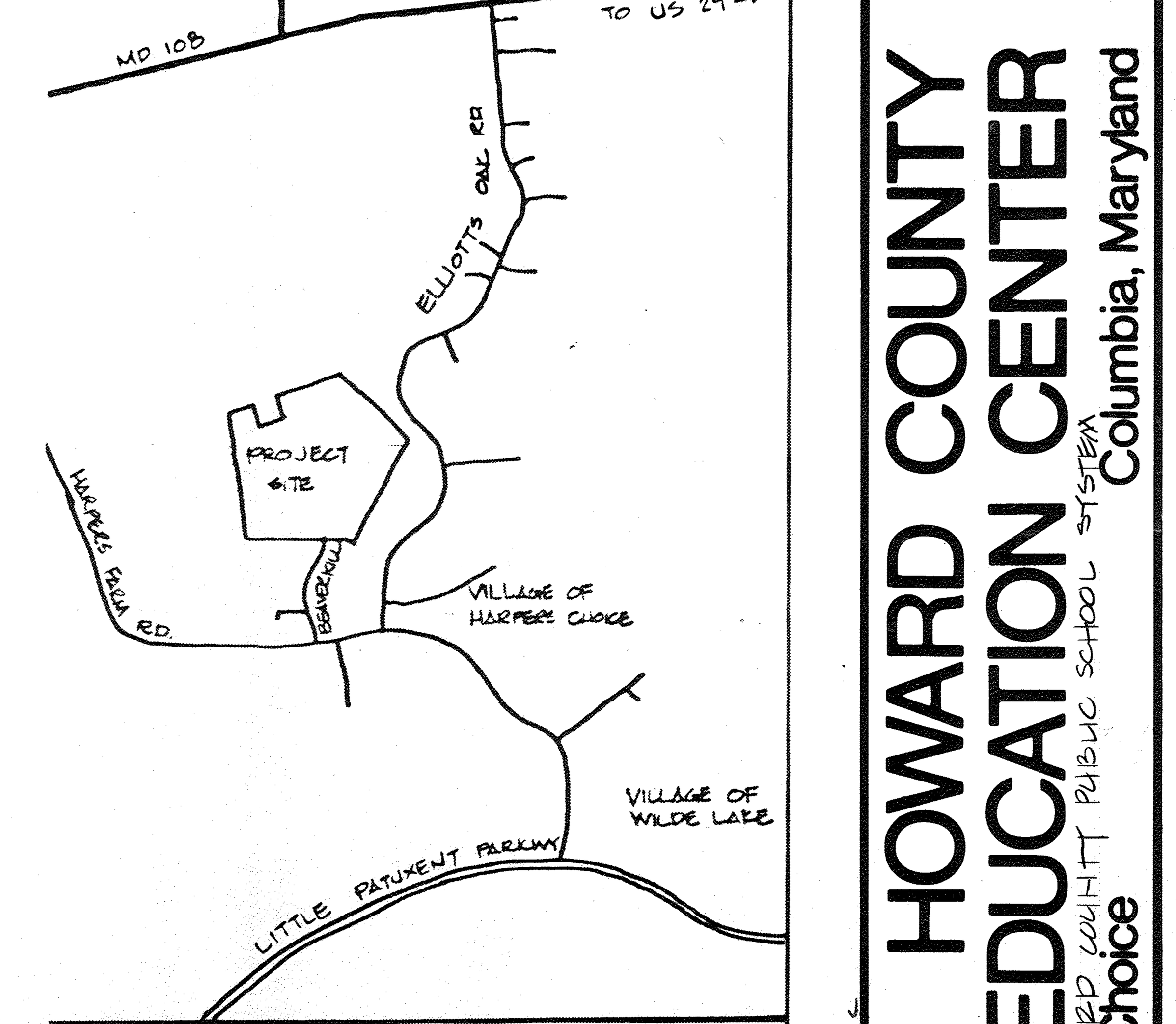
NOTE:
1. CONTRACTOR SHALL VERIFY PLANT QUANTITIES TO HIS OWN SATISFACTION.
2. EXISTING PLANT MATERIAL IN THE AREA TO BE DISTURBED SHALL BE RELOCATED TO SCREEN THE STORM WATER MANAGEMENT PONDS. ALL PLANT RELOCATIONS ARE TO BE DONE WITH THE USE OF A TREE MOVING MACHINE. ALL RELOCATIONS ARE TO BE DONE BETWEEN MARCH 15 - MAY 15 & SEPTEMBER 1 & NOVEMBER 15.



PLANTING DETAIL FOR TREES 1¼"-4" CAL
NO SCALE



PLANTING DETAIL FOR EVERGREEN AND DECIDUOUS SHRUBS
NO SCALE



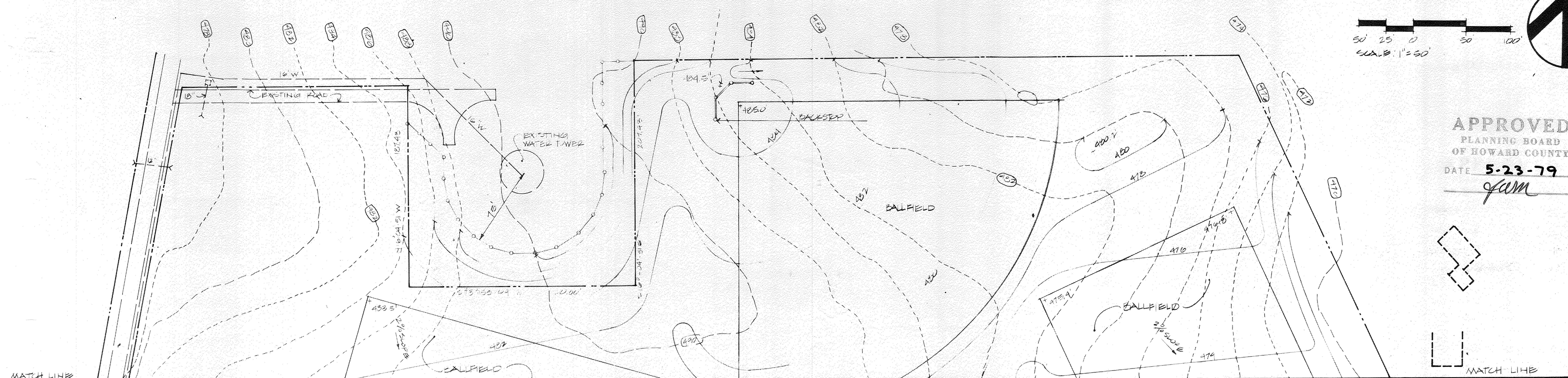
Vicinity Sketch

APPROVED: For Public Water, Public Sewerage and Storm Drainage Systems and Roads
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
DIRECTOR: [signature] DATE: 12-3-79
CHIEF, BUREAU OF ENGINEERING: [signature] DATE: 12-3-79

APPROVED: For Pub[illegible] Water and Publi[illegible] Sewe[illegible]
HOWARD COUNTY [illegible]
COUNTY HEALTH OFFICER: [signature] DATE: 12-5-79

APPROVED: Howard County Office of Planning and Zoning
PLANNING DIRECTOR: [signature] DATE: 12-7-79
CHIEF, DIV. OF LAND DEVELOP[MENT]: [signature] DATE: 12-7-79

50 25 0 50 100
SCALE: 1" = 50'



APPROVED
PLANNING BOARD
OF HOWARD COUNTY
DATE 5-23-79

THIS SHEET IS TO BE USED ONLY FOR PLANTING

PLANTING PLAN
HOWARD COUNTY SPECIAL EDUCATION CENTER
VILLAGE OF HARPERS CHOICE COLUMBIA, MD.
SECTION 6 AREA 2
PLAT BOOK 23 FOLIO 64

TAX MAP NO. 29 PARCEL NO. 69
ELECTION DISTRICT NO. 5 HOWARD COUNTY, MARYLAND
SCALE: 1" = 50' APRIL 11, 1979.

STATE OF MARYLAND — ROBERT C. GALVIN — NO. 270 — REGISTERED LANDSCAPE ARCHITECT

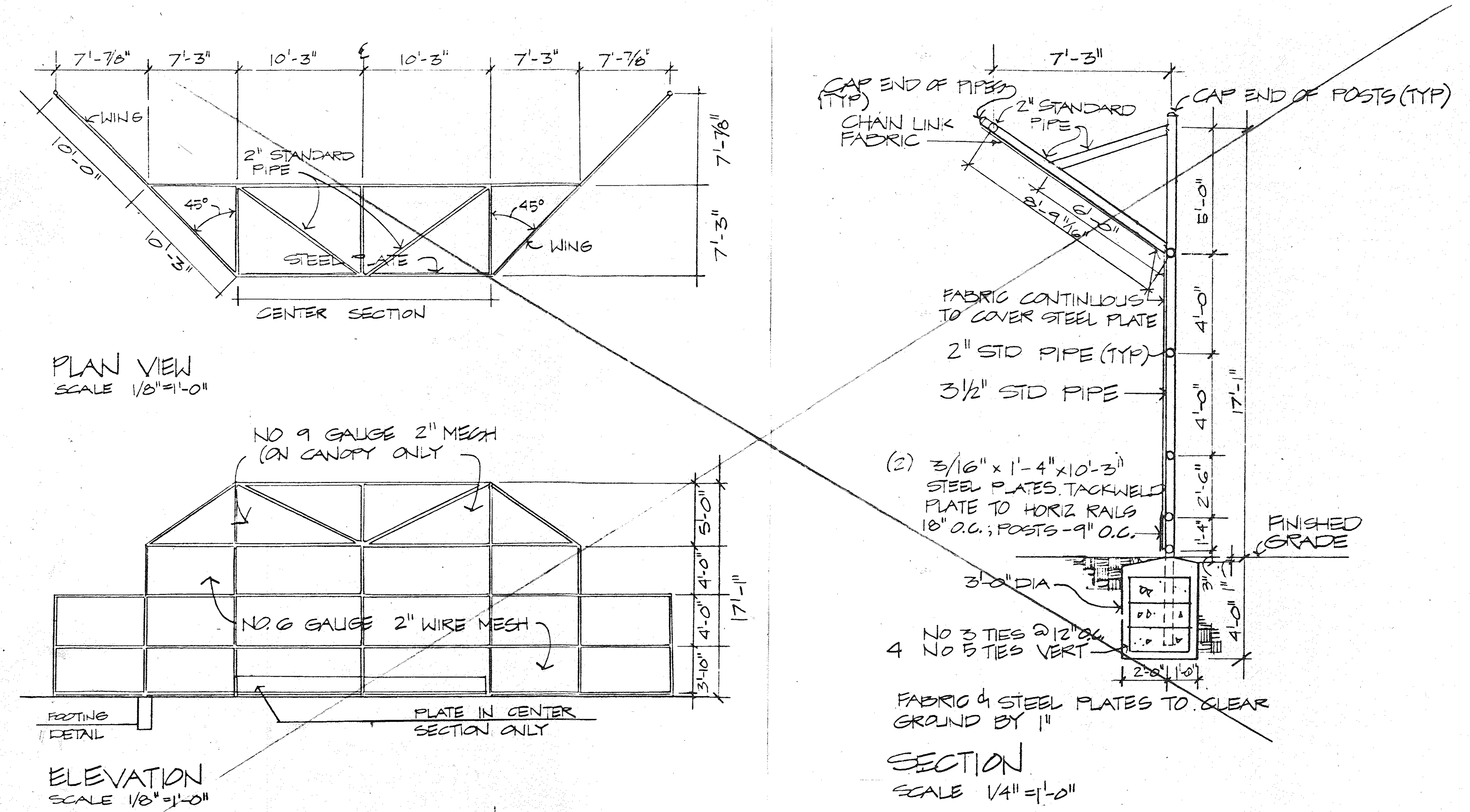
HOWARD COUNTY
SPECIAL EDUCATION CENTER
OWNER & DEVELOPER: HOWARD COUNTY PUBLIC SCHOOL SYSTEM
Village of Harper's Choice Columbia, Maryland

BLDG. ADDIT. TO SDP-72-676
Y.H.G. 6/2, O.S. LOT 3
PLAT BOOK
FOLIO

Browne, Worrall & Johnson / Architects
2435 North Calvert Street Baltimore, Maryland 21218
W. Boulton Kelly, Architectural Consultant, 6229 N. Charles St. Baltimore, Maryland
George Evans Associates, Structural, 130 West Hamilton St. Baltimore, Maryland
Daft McCune Walker, Landscape & Civil, 530 E. Joppa Rd. Towson, Maryland
Moore Lewis, Inc., Mechanical & Electrical, 2435 N. Calvert St. Baltimore, Maryland

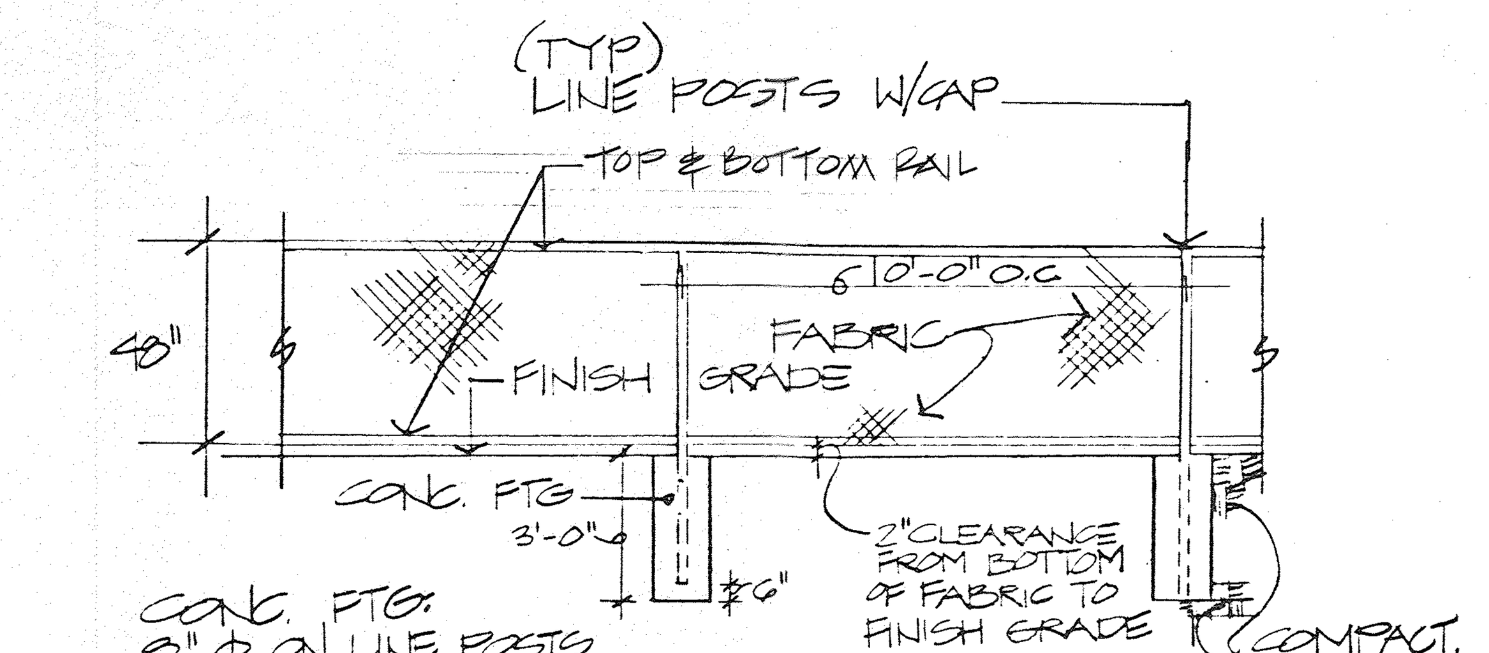
SD-12 OF 21

SDP-79-125C



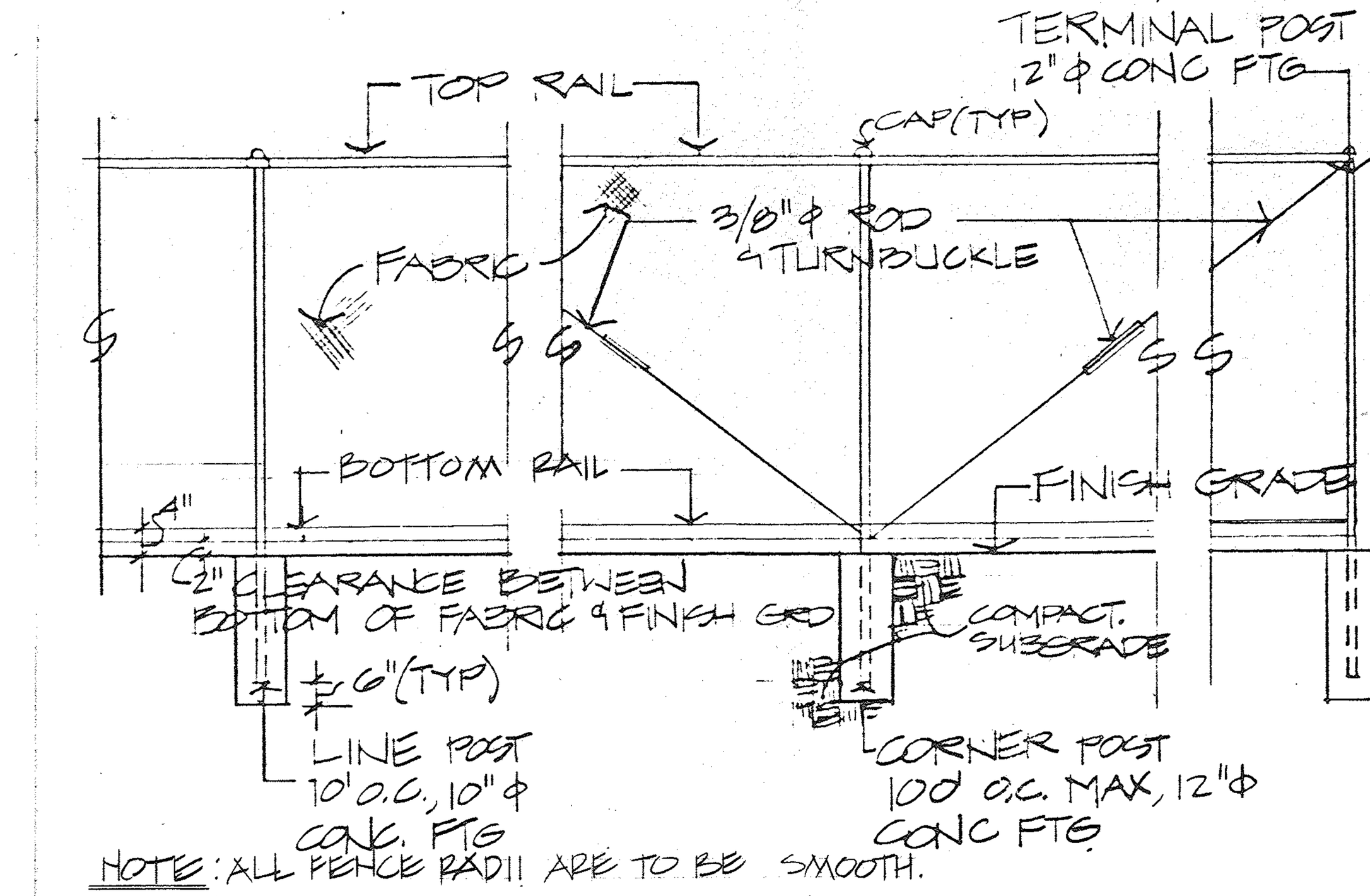
THIS DETAIL IS NOT IN CONTRACT

(1/13) HOODED BACKSTOP
SCALE: SEE DETAIL



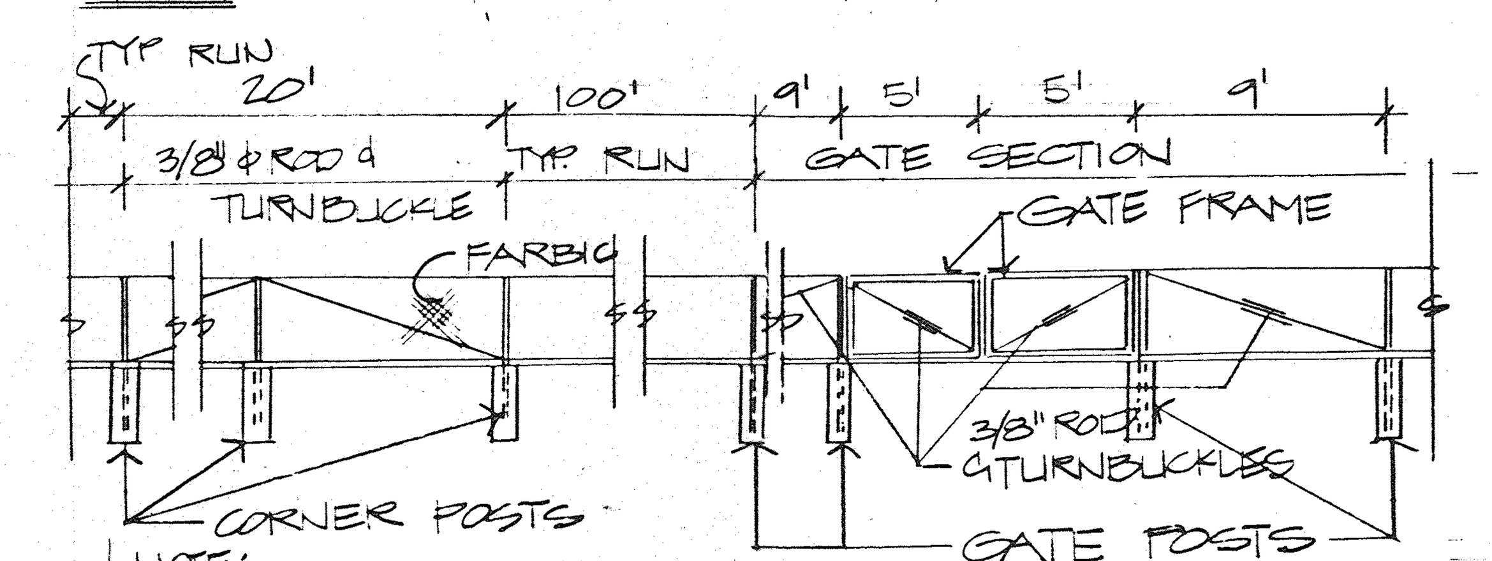
CONC. FTG:
8" ⌀ ON LINE POSTS
12" ⌀ ON GATE, TERMINAL & CORNER POSTS

PROFILE TYPICAL RUN
SCALE 1/4"=1'-0"
NOTE: ALL FENCE RADII ARE TO BE SMOOTH.



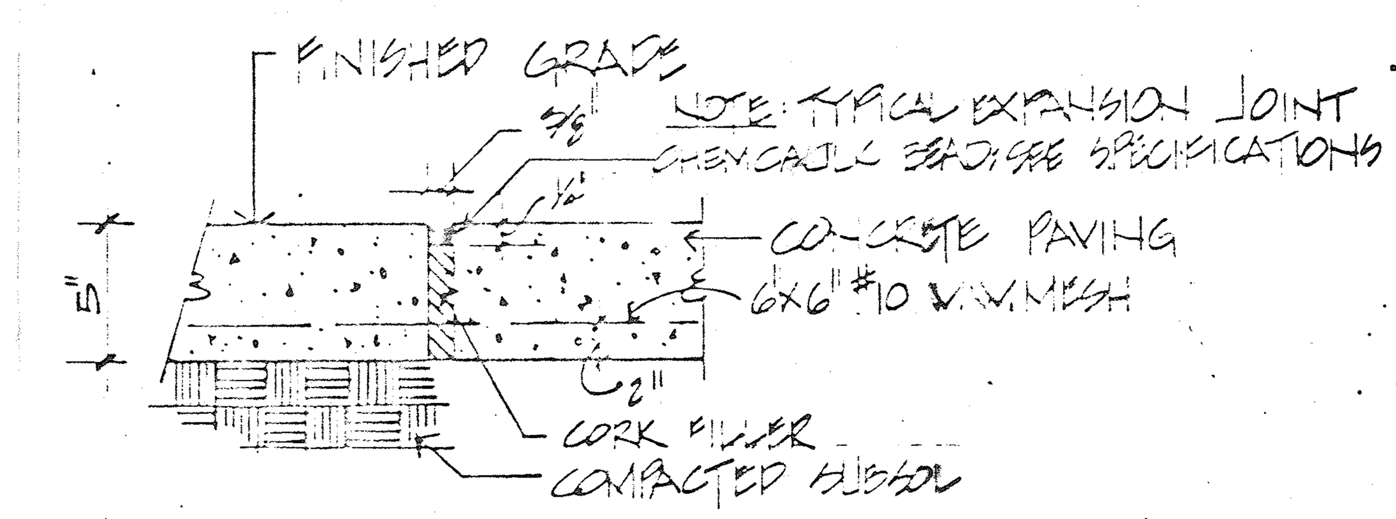
NOTE: ALL FENCE RADII ARE TO BE SMOOTH.

(3/13) 8' FENCE
SCALE: ¼



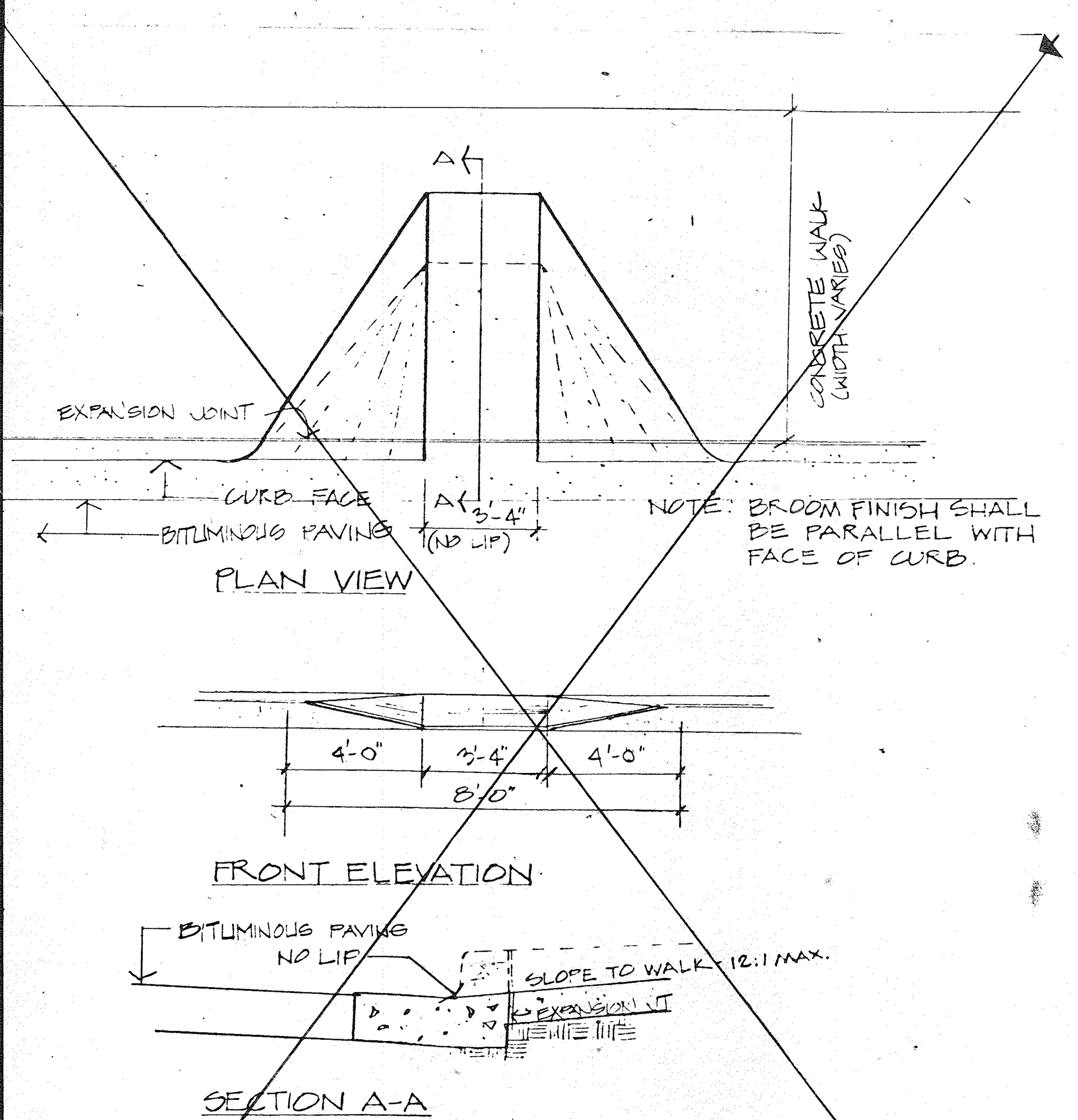
NOTE:
ALL GATE FRAMES, & HARDWARE TO BE OF WELDED CONSTRUCTION
GATES SHALL BE LOCKABLE, CONTRACTOR TO SUBMIT SHOP DWGS OF ALL TYP. CONSTRUCTION

(2/13) PROFILE; GATE SECTION
NO SCALE



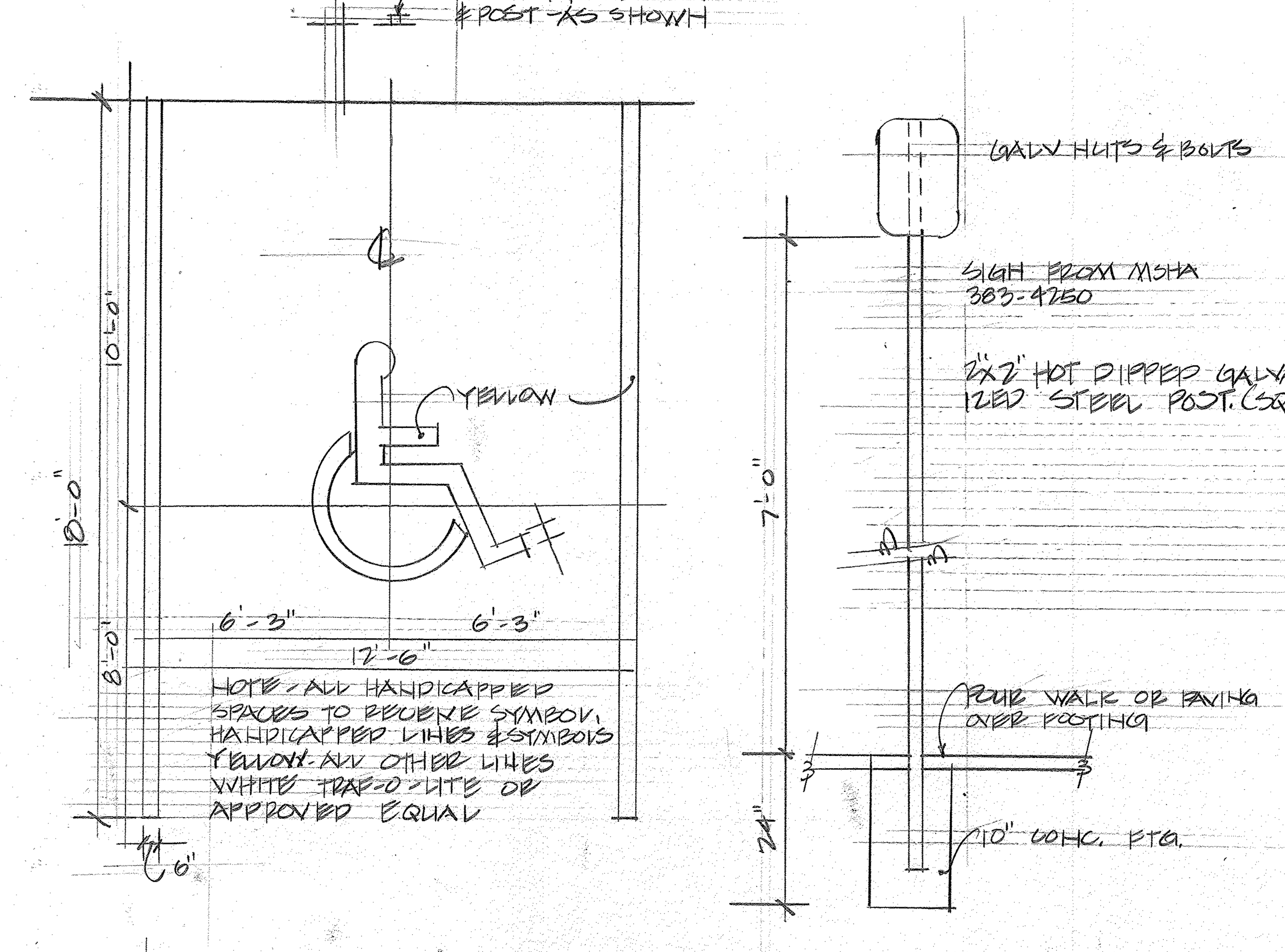
(4/13) CONCRETE PAVING SECTION (NO SCALE)

NOTE: THESE DETAILS ARE TYPICAL FOR ALL CONCRETE PAVING SHOWN ON SITE PLANS.
PLACE EXPANSION JOINTS 16' O.C., SCORING TO BE 4' O.C. BOTH WAYS.



SEE DETAIL (1/12)

(1/12) HANDICAPPED RAMP
SCALE NONE



(6/13) PARKING SPACE PLAN
SCALE 1/4"=1'-0"

SIGN SECTION
SCALE 1/2"=1'-0"

APPROVED
PLANNING BOARD
OF HOWARD COUNTY
DATE 5-23-79

APPROVED: For Public Water, Public Sewerage and Storm Drainage Systems and Roads HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS	
DIRECTOR: [signature]	DATE: 12-3-79
CHIEF, BUREAU OF ENGINEERING: [signature]	DATE: 12-3-79
APPROVED: For Public Water and Public Sewerage Systems HOWARD COUNTY HEALTH DEPARTMENT	
COUNTY HEALTH OFFICER: [signature]	DATE 12-5-79
APPROVED: Howard County Office of Planning and Zoning	
PLANNING DIRECTOR: [signature]	DATE 12-7-79
CHIEF, DIV. OF LAND DEVELOPMENT: [signature]	DATE 12-7-79

SITE DETAILS
HOWARD COUNTY
SPECIAL EDUCATION CENTER
VILLAGE OF HARPERS CHOICE COLUMBIA, MD.
SECTION 6 AREA 2
PLAT BOOK 23 FOLIO 64

TAX MAP NO. 29 PARCEL NO 69
ELECTION DISTRICT NO. 5 HOWARD COUNTY, MARYLAND
SCALE: 1 APRIL 11, 1979

HOWARD COUNTY SPECIAL EDUCATION CENTER

OWNER & DEVELOPER: HOWARD COUNTY PUBLIC SCHOOL SYSTEM
Village of Harper's Choice
Columbia, Maryland

BLDG. ADDIT. TO SDP-72-67
V.H.C. 6/2, OS LOT 3

Browne, Worrall & Johnson / Architects
2435 North Calvert Street
Baltimore, Maryland 21218
W. Boulton Kelly, Architectural Consultant, 6223 N Charles St. Baltimore, Maryland
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Moore Lewis, Inc., Mechanical & Electrical, 2435 N. Calvert St. Baltimore, Maryland

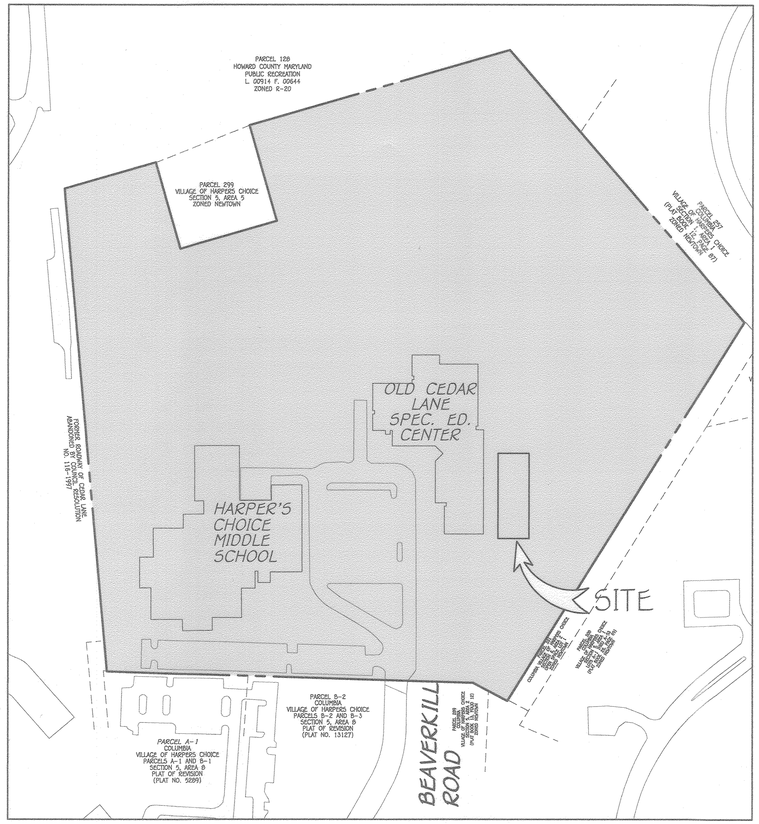
SD-13
OF 21

SDP-79-125C

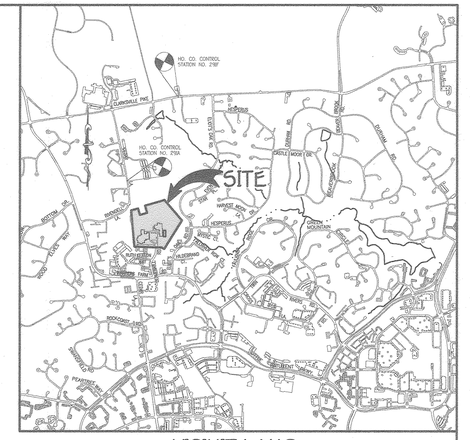
SITE DEVELOPMENT PLAN
OLD CEDAR LANE SPECIAL EDUCATION CENTER
VILLAGE OF HARPER'S CHOICE
SECTION 6 AREA 2

LEGEND – EX. CONDITIONS	
SYMBOL	DESCRIPTION
472	EXISTING CONTOUR 2' INTERVAL
470	EXISTING CONTOUR 10' INTERVAL
S	EXISTING SAN. SEWER LINE
D	EXISTING STORM DRAIN LINE
W	EXISTING WATER LINE
E	EXISTING UNDERGROUND ELECTRIC LINE
FO	EXISTING FIBER OPTICS LINE
GAS	EXISTING GAS LINE
	EXISTING TREE
	EXISTING TREELINE
	EXISTING CONCRETE
	EXISTING PAVING

LEGEND – PROP. CONDITIONS	
SYMBOL	DESCRIPTION
472	PROPOSED CONTOUR 2' INTERVAL
470	PROPOSED CONTOUR 10' INTERVAL
+ 470.50	PROPOSED SPOT ELEVATION
	PROPOSED CONCRETE WALK
	PROPOSED GRASS PAVERS
	PROPOSED TREELINE
8" W	PROPOSED WATER
18" HDPE	PROPOSED STORMDRAIN
4" SEWER	PROPOSED SEWER



LOCATION MAP
SCALE: 1" = 150'
0' 150' 300' 450'



VICINITY MAP
SCALE: 1" = 2000'
0' 2000' 4000' 6000'
ADC STREET MAP 26, GRID C7

GENERAL NOTES:

1. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST STANDARDS AND SPECIFICATIONS OF HOWARD COUNTY PLUS MSHA STANDARDS AND SPECIFICATIONS IF APPLICABLE.
2. THE CONTRACTOR SHALL NOTIFY THE DEPARTMENT OF PUBLIC WORKS, BUREAU OF ENGINEERING, CONSTRUCTION INSPECTION DIVISION AT (410) 313-1880 AT LEAST (5) WORKING DAYS PRIOR TO THE START OF WORK.
3. THE CONTRACTOR SHALL NOTIFY "MISS UTILITY" AT 1-800-257-7777 AT LEAST 48 HOURS PRIOR TO ANY EXCAVATION WORK BEING DONE.
4. TRAFFIC CONTROL DEVICES:
   A. THE TRAFFIC CONTROL DEVICE LOCATIONS SHOWN ON THE PLANS ARE APPROXIMATE AND MUST BE FIELD APPROVED BY HOWARD COUNTY TRAFFIC DIVISION (410-313-2430) PRIOR TO THE INSTALLATION OF ANY OF THE TRAFFIC CONTROL DEVICES.
   B. ALL TRAFFIC CONTROL DEVICES AND THEIR LOCATIONS SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE "MARYLAND MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (MdMUTCD).
   C. ALL SIGN POSTS USED FOR TRAFFIC CONTROL SIGNS INSTALLED IN THE COUNTY RIGHT-OF-WAY SHALL BE MOUNTED ON A 2" GALVANIZED STEEL, PERFORATED ("QUICK PUNCH"), SQUARE TUBE POST (14 GAUGE) INSERTED INTO A 2-1/2" GALVANIZED STEEL, PERFORATED, SQUARE TUBE SLEEVE (12 GAUGE) – 3' LONG, THE ANCHOR SHALL NOT EXTEND MORE THAN TWO "QUICK PUNCH" HOLES ABOVE LEVEL. A GALVANIZED STEEL POLE CAP SHALL BE MOUNTED ON TOP OF EACH POST.
5. COORDINATES ARE BASED ON NAD 83 MARYLAND COORDINATES SYSTEM AS PROJECTED BY HOWARD COUNTY GEODETIC CONTROL STATIONS.
   291F N 571,309.766 E 1,345,093.245 ELEV. 444.451
   291A N 568,986.067 E 1,343,640.177 ELEV. 482.155
6. BACKGROUND INFORMATION:
   A. SUBDIVISION NAME: OLD CEDAR LANE SPECIAL ED CENTER
   B. TAX MAP NO.: 29
   C. PARCEL NOS.: 69
   D. ZONING: NT PER 10/6/13 COMPREHENSIVE ZONING PLAN.
   E. ELECTION DISTRICT: FIFTH
   F. TOTAL TRACT AREA: 1,336,026 SF (30.67 AC.±)
   G. AREA OF STEEP SLOPES 25% AND GREATER = 0 AC.±
   H. NO. OF BUILDABLE PARCELS: 1
   I. AREA OF BUILDABLE PARCELS: 30.67 AC.±
   J. TOTAL AREA OF ROADWAY TO BE DEDICATED: 0 AC.±
   K. AREA OF FLOODPLAIN: 0 AC.±
7. PREVIOUS FILE NOS.: SDP-72-076, SDP-79-125, ECP-23-041
8. ALL FILL AREAS WITHIN ROADWAYS AND UNDER STRUCTURES SHALL BE COMPACTED TO A MINIMUM OF 95% COMPACTION OF AASHTO T-180.
9. SOILS INFORMATION TAKEN FROM NRCS WEB SOIL SURVEY.
10. THERE ARE NO WETLAND AREAS ON THIS PROJECT.
11. THERE ARE NO STEEP SLOPES OF 25% OR GREATER ON THIS SITE.
12. THERE IS NO FLOODPLAIN ON SITE.
13. PER SECTION 16.1202(b)(1)(iii), PROPERTY OWNED BY HCPSS AND IS EXEMPT FROM THE REQUIREMENTS OF SECTION 16.1200 OF THE HOWARD COUNTY CODE FOR FOREST CONSERVATION BECAUSE THE SITE IS PART OF A PLANNED UNIT DEVELOPMENT, NEW TOWN COLUMBIA.
14. THE PROJECT IS IN CONFORMANCE WITH THE LATEST HOWARD COUNTY STANDARDS.
15. THE EXISTING TOPOGRAPHY INFORMATION SHOWN IS FROM A FIELD RUN SURVEY BY FISHER COLLINS AND CARTER INC. DATED JANUARY 2023 AND OFFSITE TOPOGRAPHY IS FROM HOWARD COUNTY GIS DATA.
16. BOUNDARY INFORMATION IS BASED ON A SURVEY PERFORMED BY FISHER, COLLINS & CARTER, INC. DATED AUGUST 2018.
17. THIS PROPERTY IS LOCATED WITHIN THE METROPOLITAN DISTRICT.
18. STORM WATER MANAGEMENT WILL BE PROVIDED WITH TWELVE DRYWELLS ALONG WITH TWO NON-ROOFTOP DISCONNECT AREAS TO MEET AND EXCEED THE REQUIRED ESD VOLUME IN ACCORDANCE WITH THE M.D.E. STORM WATER DESIGN MANUAL, VOLUMES I & II, REVISED 2009.
19. A NOISE STUDY IS NOT REQUIRED FOR THIS PROJECT.
20. ALL PROPOSED UTILITY CONSTRUCTION SHALL BE IN ACCORDANCE WITH COUNTY STANDARDS AND SPECIFICATIONS.
21. ANY DAMAGE TO COUNTY AND OR STATE OWNED RIGHT-OF-WAY TO BE CORRECTED AT THE CONTRACTOR'S EXPENSE.
22. GUTTER PAN OF CURBS SHALL BE PITCHED TO CONFORM TO THE ADJACENT DRAINAGE PATTERNS OF THE ADJOINING PAVING FOR VEHICULAR USE.
23. ALL PROPOSED RAMPS SHALL BE IN ACCORDANCE WITH CURRENT A.D.A. STANDARDS ACCESSIBILITY GUIDELINES. MAXIMUM SIDEWALK CROSS SLOPE SHALL BE TWO PERCENT. PROVIDE A (5'X5') FIVE FOOT BY FIVE FOOT LEVEL LANDING (MAX. SLOPE 2%) AT THE TOP AND BOTTOM OF ALL RAMPS AND BUILDING ENTRANCES AND EXITS. HANDRAILS SHALL BE PROVIDED ON ALL RAMPS IN ACCORDANCE WITH SECTION 505 OF THE A.D.A STANDARDS ACCESSIBILITY GUIDELINES.
24. ALL PLAN DIMENSIONS ARE TO THE FACE OF CURB OR FACE OF BUILDING UNLESS OTHERWISE NOTED. DIMENSIONS ARE MEASURED PERPENDICULAR OR RADIAL BETWEEN ITEMS UNLESS OTHERWISE NOTED.
25. ON-SITE WATER IS PRIVATE. SEWER IS PRIVATE. PUBLIC WATER CONTRACT (44-1324-D) AND PUBLIC SEWER CONTRACT (364 W&S) SERVE THE SITE.
26. EXISTING UTILITIES ARE BASED ON FIELD LOCATION BY FISHER, COLLINS & CARTER, INC. ON JANUARY 2023 AND SUPPLEMENTED WITH COUNTY AVAILABLE INFORMATION.
27. THERE IS NO HISTORIC STRUCTURES LOCATED ON THIS SITE.
28. THE SITE PLAN IS LIMITED TO THE MODULAR UNIT. THE FINAL DEVELOPMENT PLAN DOES NOT REQUIRE AMENDMENT FOR A MOVABLE FACILITY.
29. MINIMUM BUILDING SETBACK RESTRICTIONS FROM PROPERTY LINES AND THE PUBLIC RIGHT-OF-WAY LINES TO BE IN ACCORDANCE WITH FDP-123-A CRITERIA
30. REVIEW OF THIS PROJECT FOR COMPLIANCE WITH THE HOWARD COUNTY SUBDIVISION AND LAND DEVELOPMENT REGULATIONS AND THE HOWARD COUNTY ZONING REGULATIONS SHALL OCCUR AT THE SITE PLAN STAGES. THEREFORE, THE APPLICANT AND CONSULTANT SHOULD EXPECT ADDITIONAL AND MORE DETAILED COMMENTS (INCLUDING THOSE THAT MAY ALTER OVERALL SITE DESIGN) AS THIS PROJECT PROGRESSES.
31. NO GRADING, REMOVAL OF VEGETATIVE COVER OR TREES, PAVING AND NEW STRUCTURES SHALL BE PERMITTED WITHIN THE LIMITS OF WETLANDS, STREAMS, OR THEIR REQUIRED BUFFER, FLOODPLAIN AND FOREST CONSERVATION EASEMENT AREAS.
32. PER HOWARD COUNTY PUBLIC SCHOOL SYSTEMS PARKING REQUIREMENTS – 200 PARKING SPACES FOR STAFF AND VOLUNTEERS, 42 SPACES FOR VISITORS TOTALING 242 SPACES.

STORMWATER MANAGEMENT SUMMARY

AREA ID OR LOCATION	FACILITY NAME & NUMBER	PUBLIC	PRIVATE	HOA MAINTAINED	OWNER MAINTAINED	DRAINAGE AREA (SF)	IMPERVIOUS AREA (SF)	ESDv PROVIDED (CF)	SURFACE AREA (SF)
5451 BEAVERKILL RD	DW-1,6,7,12	N	Y	N	Y	682 *	682 *	594	1,140
5451 BEAVERKILL RD	DW-2-5, 8-11	N	Y	N	Y	983 *	983 *	1,628	1,140
5451 BEAVERKILL RD	DNRR #1	N	Y	N	Y	1,190	1,190	94	N/A
5451 BEAVERKILL RD	DNRR #2	N	Y	N	Y	600	600	48	N/A

OVERALL SITE INFORMATION

ESDv REQUIRED = 1,911 CF
ESDv PROVIDED = 2,222 CF (DRYWELLS) RECHARGE
ESDv TOTAL = 2,364 CF
Pe REQUIRED = 1.50"
Pe PROVIDED = 1.83"

* PER DRYWELL

STORMWATER MANAGEMENT INFORMATION AND PRACTICES

AREA ID OR LOCATION	PERMEABLE PAVING (A-2)	DISCONNECT OR ROOFTOP RUNOFF (N-1)	DISCONNECT OR NON-ROOFTOP RUNOFF (N-2)	FILTERRA INLETS	MICRO BIO-RETENTION (M-6)	BIO-RETENTION (M-6)	SUBMERGED GRAVEL WETLANDS (M-2)	DRYWELL (M-5)
PORT. CLASSROOM & EMERGENCY ACCESS	N	N	Y (2)	N	N	N	N	Y (12)

FISHER, COLLINS & CARTER, INC.
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
CENTENNIAL SQUARE OFFICE PARK – 10272 BALTIMORE NATIONAL PIKE
ELLICOTT CITY, MARYLAND 21042
(410) 461 – 2855

"PROFESSIONAL CERTIFICATION. I HEREBY CERTIFY 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. 27020, EXPIRATION DATE: 01/25/26."

PAUL GERARD CAVANAUGH — DATE: Jan 18, 2024

DATE	DESCRIPTION
	REVISION BLOCK

APPROVED: DEPARTMENT OF PLANNING AND ZONING

Director – Department of Planning and Zoning — Date 2/6/24
Chief, Division of Land Development — Date 2/5/24
Chief, Development Engineering Division — Date 2/1/24

OWNER/DEVELOPER

PREPARED FOR
HOWARD COUNTY PUBLIC SCHOOL SYSTEM
9020 MENDENHALL COURT
SUITE 'C'
COLUMBIA, MARYLAND 21045
Attention: DANIEL LUBELEY
410-313-8203

STATE OF MARYLAND — PAUL GERARD CAVANAUGH — No. 27020 — PROFESSIONAL ENGINEER

ADDRESS CHART	
PARCEL NO.	STREET ADDRESS
69	OLD CEDAR LANE SPECIAL ED CENTER
	COLUMBIA, MARYLAND 21044

PROJECT			SECTION/AREA		PARCEL
OLD CEDAR LANE SPECIAL ED CENTER			6/2		69
PLAT NOS.	BLOCK NO.	ZONE	TAX MAP	ELEC. DIST.	CENSUS TR.
–	17,23	NT	29	FIFTH	605502

NOTES AND LOCATION SHEET

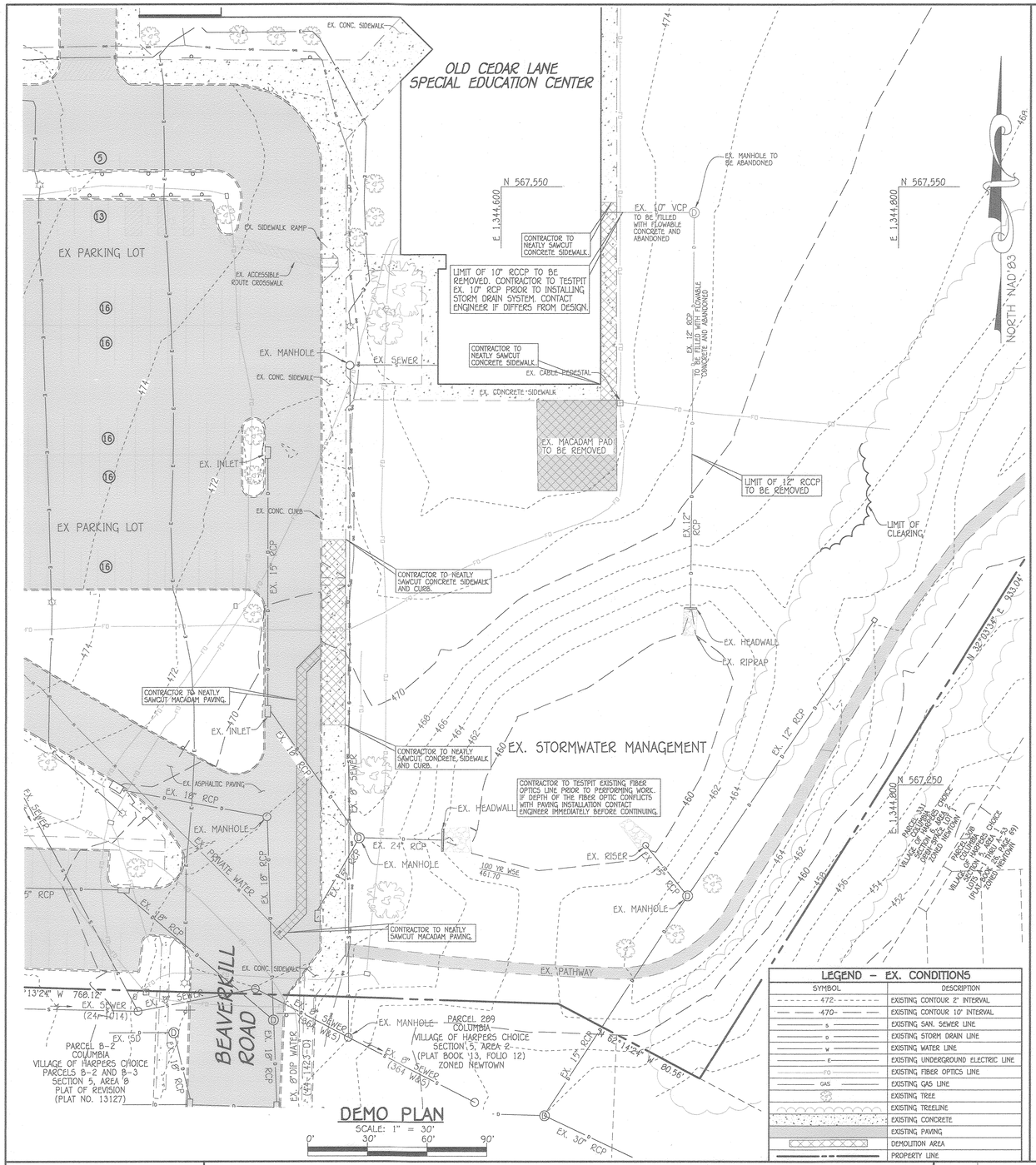
OLD CEDAR LANE SPECIAL EDUCATION CENTER

VILLAGE OF HARPER'S CHOICE
SECTION 6 AREA 2

ZONED: NEW TOWN
TAX MAP No.: 29 GRID No.: 17, 23 PARCEL No.: 69
FIFTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND
SCALE: AS SHOWN DATE: JANUARY, 2024
SHEET 14 OF 21

SDP-79-125c

I:\2022\22080\Engineering\Dwgs\SDP\22080 Redline C-14 NOTES AND LOCATION.dwg, Title Sheet, 1/18/2024 11:11:47 AM, 1:1

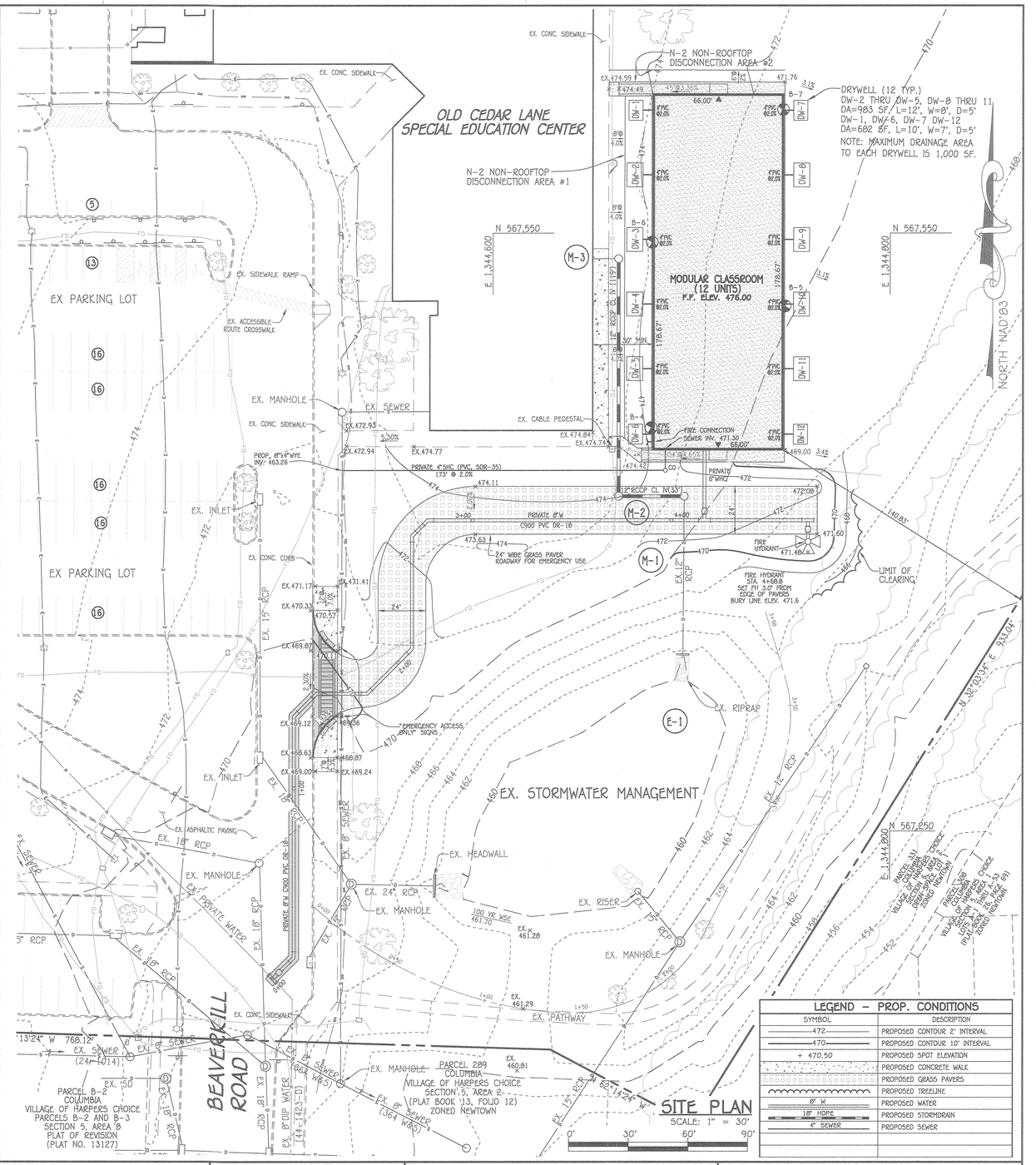


DEMO PLAN

SCALE: 1" = 30'

0' 30' 60' 90'

LEGEND – EX. CONDITIONS	
SYMBOL	DESCRIPTION
472	EXISTING CONTOUR 2' INTERVAL
470	EXISTING CONTOUR 10' INTERVAL
S	EXISTING SAN. SEWER LINE
D	EXISTING STORM DRAIN LINE
W	EXISTING WATER LINE
E	EXISTING UNDERGROUND ELECTRIC LINE
FO	EXISTING FIBER OPTICS LINE
GAS	EXISTING GAS LINE
	EXISTING TREE
	EXISTING TREELINE
	EXISTING CONCRETE
	EXISTING PAVING
	DEMOLITION AREA
	PROPERTY LINE



SITE PLAN

SCALE: 1" = 30'

0' 30' 60' 90'

LEGEND – PROP. CONDITIONS	
SYMBOL	DESCRIPTION
472	PROPOSED CONTOUR 2' INTERVAL
470	PROPOSED CONTOUR 10' INTERVAL
+ 470.50	PROPOSED SPOT ELEVATION
	PROPOSED CONCRETE WALK
	PROPOSED GRASS PAVERS
	PROPOSED TREELINE
8" W	PROPOSED WATER
18" HDPE	PROPOSED STORMDRAIN
4" SEWER	PROPOSED SEWER

FISHER, COLLINS & CARTER, INC.
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
CENTENNIAL SQUARE OFFICE PARK - 10272 BALTIMORE NATIONAL PIKE
ELLICOTT CITY, MARYLAND 21042
(410) 461 - 2855

"PROFESSIONAL CERTIFICATION. I HEREBY CERTIFY 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. 27020, EXPIRATION DATE: 01/25/26."

PAUL GERARD CAVANAUGH

Jan 18, 2024
DATE

DATE	DESCRIPTION
	REVISION BLOCK

APPROVED: DEPARTMENT OF PLANNING AND ZONING

Director - Department of Planning and Zoning — Date 2/16/24

Chief, Division of Land Development — Date 1/31/24

Chief, Development Engineering Division — Date 2/1/24

OWNER/DEVELOPER

PREPARED FOR
HOWARD COUNTY PUBLIC SCHOOL SYSTEM
9020 MENDENHALL COURT
SUITE 'C'
COLUMBIA, MARYLAND 21045
Attention: DANIEL LUBELEY
410-313-6203

STATE OF MARYLAND — PAUL GERARD CAVANAUGH — No. 27020 — PROFESSIONAL ENGINEER

ADDRESS CHART	
PARCEL NO.	STREET ADDRESS
69	OLD CEDAR LANE SPECIAL ED CENTER COLUMBIA, MARYLAND 21044

PROJECT			SECTION/AREA		PARCEL
OLD CEDAR LANE SPECIAL ED CENTER			6/2		69
PLAT NOS.	BLOCK NO.	ZONE	TAX MAP	ELEC. DIST.	CENSUS TR.
-	17,23	NT	29	FIFTH	605502

DEMOLITION PLAN AND SITE PLAN

OLD CEDAR LANE SPECIAL EDUCATION CENTER

VILLAGE OF HARPER'S CHOICE
SECTION 6 AREA 2

ZONED: NEW TOWN
TAX MAP No.: 29 GRID No.: 17, 23 PARCEL No.: 69
FIFTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND
SCALE: AS SHOWN DATE: JANUARY, 2024
SHEET 15 OF 21

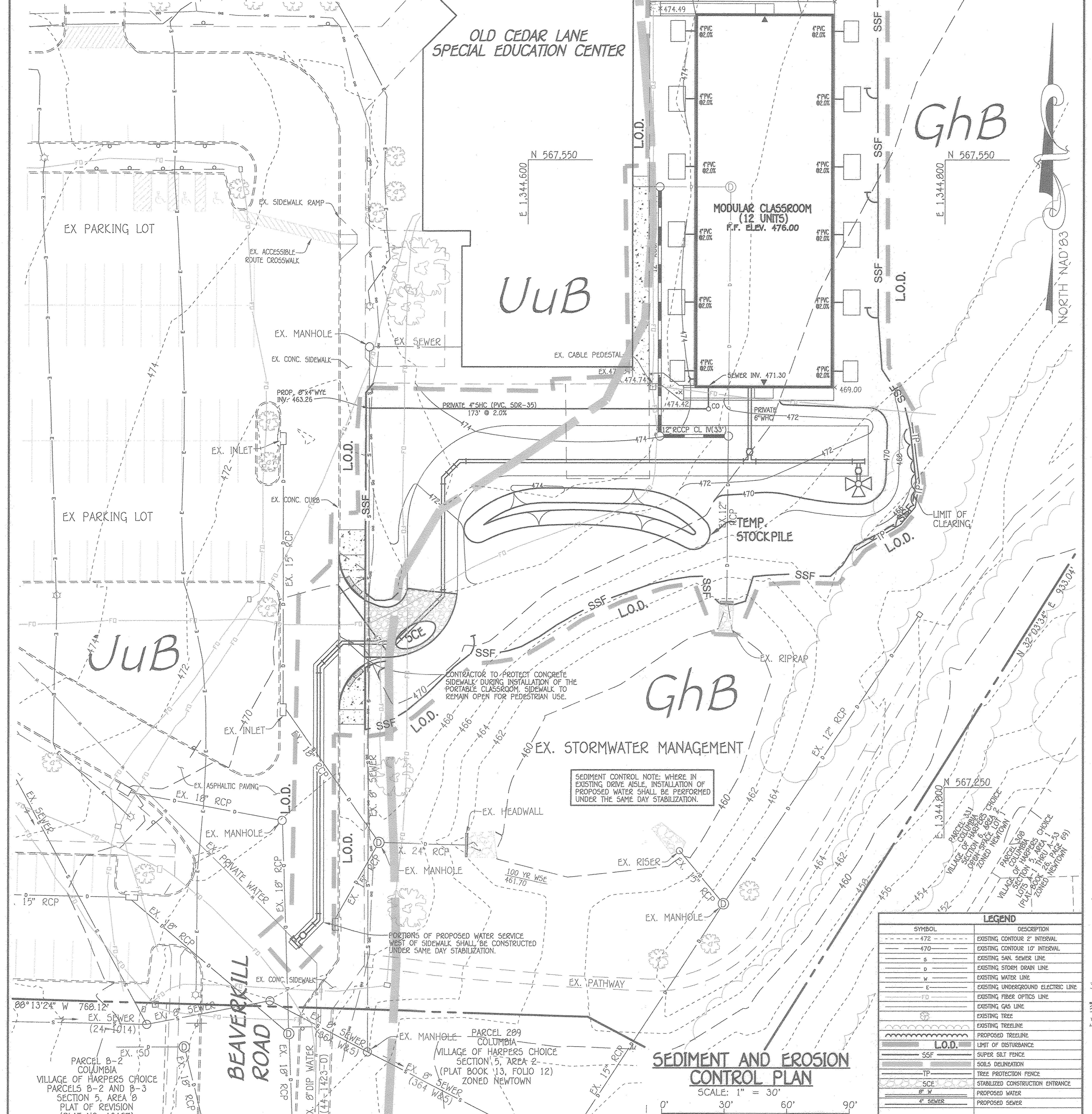
SDP-79-125c

I:\2022\22080\Engineering\Dwgs\SDP\22080 Redline C-15 DEMO AND SITE.dwg, PLAN, 1/18/2024 10:17:14 AM, 1:1

SOILS LEGEND

SOIL	NAME	GROUP
GhB	Glenelg-urban land complex, 0 to 8 percent slopes, K VALUE = 0.43	B
UuB	Urban land-Udorthents complex, 0 to 8 percent slopes	D

NOTES:
- * Hydric soils and/or contains hydric inclusions
- ** May contain hydric inclusions



OLD CEDAR LANE SPECIAL EDUCATION CENTER
MODULAR CLASSROOM (12 UNITS) F.F. ELEV. 476.00
GhB
UuB
EX PARKING LOT
TEMP. STOCKPILE
EX. STORMWATER MANAGEMENT
LIMIT OF CLEARING
SEDIMENT CONTROL NOTE: WHERE IN EXISTING DRIVE AISLE, INSTALLATION OF PROPOSED WATER SHALL BE PERFORMED UNDER THE SAME DAY STABILIZATION.
CONTRACTOR TO PROTECT CONCRETE SIDEWALK DURING INSTALLATION OF THE PORTABLE CLASSROOM. SIDEWALK TO REMAIN OPEN FOR PEDESTRIAN USE.
PORTIONS OF PROPOSED WATER SERVICE WEST OF SIDEWALK SHALL BE CONSTRUCTED UNDER SAME DAY STABILIZATION.
BEAVERKILL ROAD
PARCEL 289 COLUMBIA VILLAGE OF HARPERS CHOICE SECTION 5, AREA 2 (PLAT BOOK 13, FOLIO 12) ZONED NEWTOWN
PARCEL B-2 COLUMBIA VILLAGE OF HARPERS CHOICE PARCELS B-2 AND B-3 SECTION 5, AREA 8 PLAT OF REVISION (PLAT NO. 13127)
NORTH NAD'83

SEDIMENT AND EROSION CONTROL PLAN

SCALE: 1" = 30'

0' 30' 60' 90'

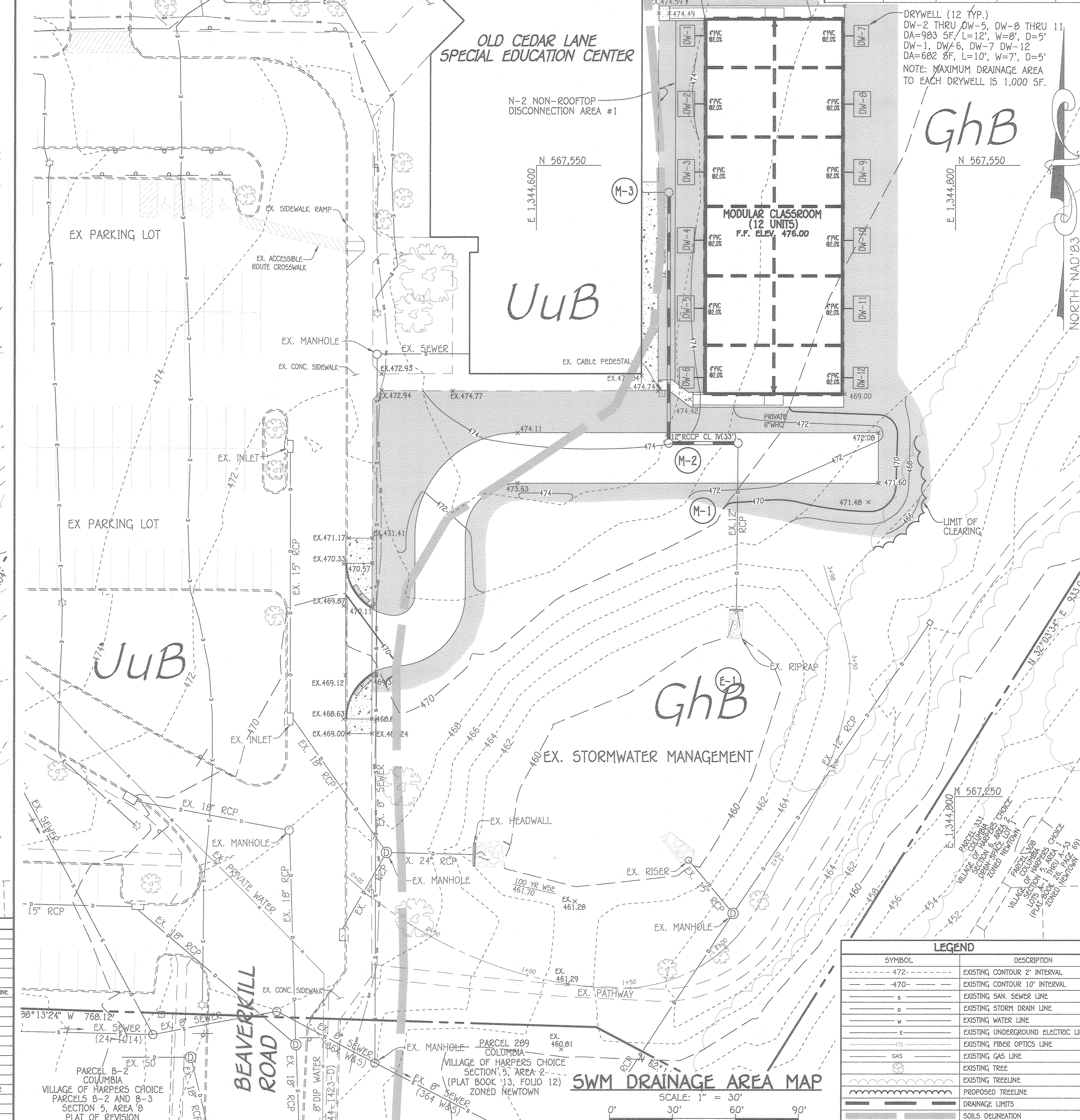
LEGEND

SYMBOL	DESCRIPTION
472	EXISTING CONTOUR 2' INTERVAL
470	EXISTING CONTOUR 10' INTERVAL
S	EXISTING SAN. SEWER LINE
	EXISTING STORM DRAIN LINE
W	EXISTING WATER LINE
E	EXISTING UNDERGROUND ELECTRIC LINE
FO	EXISTING FIBER OPTICS LINE
	EXISTING GAS LINE
	EXISTING TREE
	EXISTING TREELINE
	PROPOSED TREELINE
L.O.D.	LIMIT OF DISTURBANCE
SSF	SUPER SILT FENCE
	SOILS DELINEATION
TP	TREE PROTECTION FENCE
SCE	STABILIZED CONSTRUCTION ENTRANCE
6" W	PROPOSED WATER
4" SEWER	PROPOSED SEWER

DRAINAGE AREA DATA

STRUCTURE NO.	DRAINAGE AREA	AREA	'C' FACTOR	% IMP.
I-1	A	9,576 SF	0.83	95%
I-2	B	6,875 SF	0.80	90%
I-3	C	21,697 SF	0.67	70%

DRYWELL (12 TYP.)
DW-2 THRU DW-5, DW-8 THRU 11
DA=983 SF, L=12', W=8', D=5'
DW-1, DW-6, DW-7 DW-12
DA=682 SF, L=10', W=7', D=5'
NOTE: MAXIMUM DRAINAGE AREA TO EACH DRYWELL IS 1,000 SF.



N-2 NON-ROOFTOP DISCONNECTION AREA
N-2 NON-ROOFTOP DISCONNECTION AREA #1
OLD CEDAR LANE SPECIAL EDUCATION CENTER
MODULAR CLASSROOM (12 UNITS) F.F. ELEV. 476.00
GhB
UuB
EX PARKING LOT
EX. STORMWATER MANAGEMENT
LIMIT OF CLEARING
BEAVERKILL ROAD
NORTH NAD'83

SWM DRAINAGE AREA MAP

SCALE: 1" = 30'

0' 30' 60' 90'

LEGEND

SYMBOL	DESCRIPTION
472	EXISTING CONTOUR 2' INTERVAL
470	EXISTING CONTOUR 10' INTERVAL
S	EXISTING SAN. SEWER LINE
	EXISTING STORM DRAIN LINE
W	EXISTING WATER LINE
E	EXISTING UNDERGROUND ELECTRIC LINE
FO	EXISTING FIBER OPTICS LINE
GAS	EXISTING GAS LINE
	EXISTING TREE
	EXISTING TREELINE
	PROPOSED TREELINE
	DRAINAGE LIMITS
	SOILS DELINEATION
	PROPOSED SOD FESCUE

FISHER, COLLINS & CARTER, INC.
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
CENTENNIAL SQUARE OFFICE PARK - 10272 BALTIMORE NATIONAL PIKE
ELLICOTT CITY, MARYLAND 21042
(410) 461 - 2855

ENGINEER'S CERTIFICATE

"I HEREBY CERTIFY THAT THIS PLAN HAS BEEN DESIGNED IN ACCORDANCE WITH THE CURRENT MARYLAND EROSION AND SEDIMENT CONTROL LAWS, REGULATIONS, AND STANDARDS REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE, AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT."

SIGNATURE OF ENGINEER — DATE Jan 18, 2024

"PROFESSIONAL CERTIFICATION. I HEREBY CERTIFY 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. 27020, EXPIRATION DATE: 01/25/26."

PAUL GERARD CAVANAUGH — DATE Jan 18, 2024

DEVELOPER'S CERTIFICATE

"I/WE HEREBY CERTIFY THAT ANY CLEARING, GRADING, CONSTRUCTION, OR DEVELOPMENT WILL BE DONE PURSUANT TO THIS APPROVED EROSION AND SEDIMENT CONTROL PLAN, INCLUDING INSPECTING AND MAINTAINING CONTROLS, AND THAT THE RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF TRAINING AT A MARYLAND DEPARTMENT OF THE ENVIRONMENT (MDE) APPROVED TRAINING PROGRAM FOR THE CONTROL ON EROSION AND SEDIMENT PRIOR TO BEGINNING THE PROJECT. I CERTIFY RIGHT OF ENTRY FOR PERIODIC ON-SITE EVALUATION BY HOWARD COUNTY, THE HOWARD SOIL CONSERVATION DISTRICT AND/OR MDE."

SIGNATURE OF DEVELOPER — DATE Jan 19, 2024

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 02/20/24

DATE	DESCRIPTION
	REVISION BLOCK

APPROVED: DEPARTMENT OF PLANNING AND ZONING

Director - Department of Planning and Zoning — Date 2/6/24

Chief, Division of Land Development — Date 2/5/24

Chief, Development Engineering Division — Date 2/6/24

OWNER/DEVELOPER

PREPARED FOR
HOWARD COUNTY PUBLIC SCHOOL SYSTEM
9020 MENDENHALL COURT
SUITE 'C'
COLUMBIA, MARYLAND 21045
Attention: DANIEL LUBELEY
410-313-8203

STATE OF MARYLAND · PAUL GERARD CAVANAUGH · No. 27020 · PROFESSIONAL ENGINEER

ADDRESS CHART	
PARCEL NO.	STREET ADDRESS
69	OLD CEDAR LANE SPECIAL ED CENTER COLUMBIA, MARYLAND 21044

PROJECT			SECTION/AREA		PARCEL
OLD CEDAR LANE SPECIAL ED CENTER			6/2		69
PLAT NOS.	BLOCK NO.	ZONE	TAX MAP	ELEC. DIST.	CENSUS TR.
-	17,23	NT	29	FIFTH	605502

SEDIMENT AND EROSION CONTROL PLAN AND DRAINAGE AREA MAP

OLD CEDAR LANE SPECIAL EDUCATION CENTER

VILLAGE OF HARPER'S CHOICE
SECTION 6 AREA 2

ZONED: NEW TOWN
TAX MAP No.: 29 GRID No.: 17, 23 PARCEL No.: 69
FIFTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND
SCALE: AS SHOWN DATE: JANUARY, 2024
SHEET 16 OF 21

SDP-79-125c

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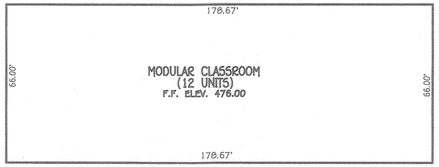


BUILDING OUTLINE

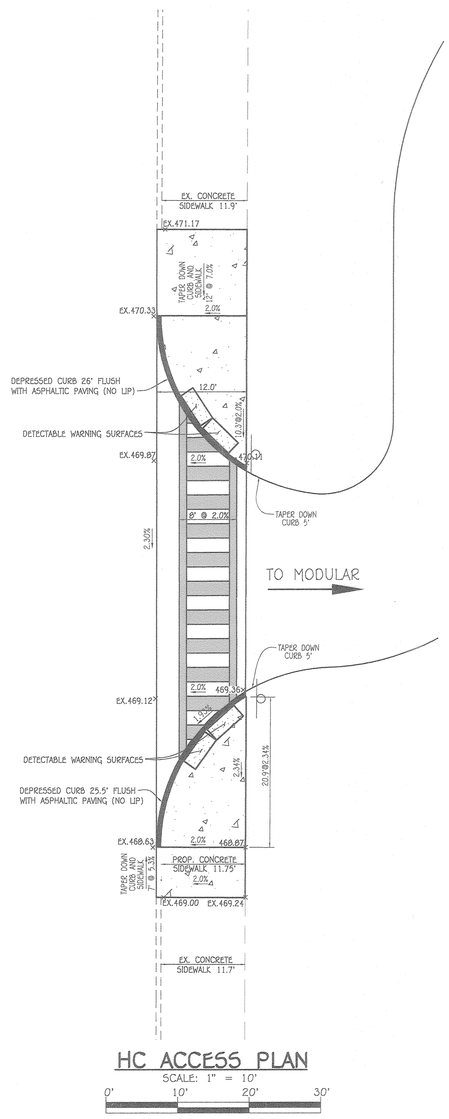
SCALE: 1" = 30'

0' 30' 60' 90'

BUILDING ELEVATIONS

SCALE: 1" = 30'

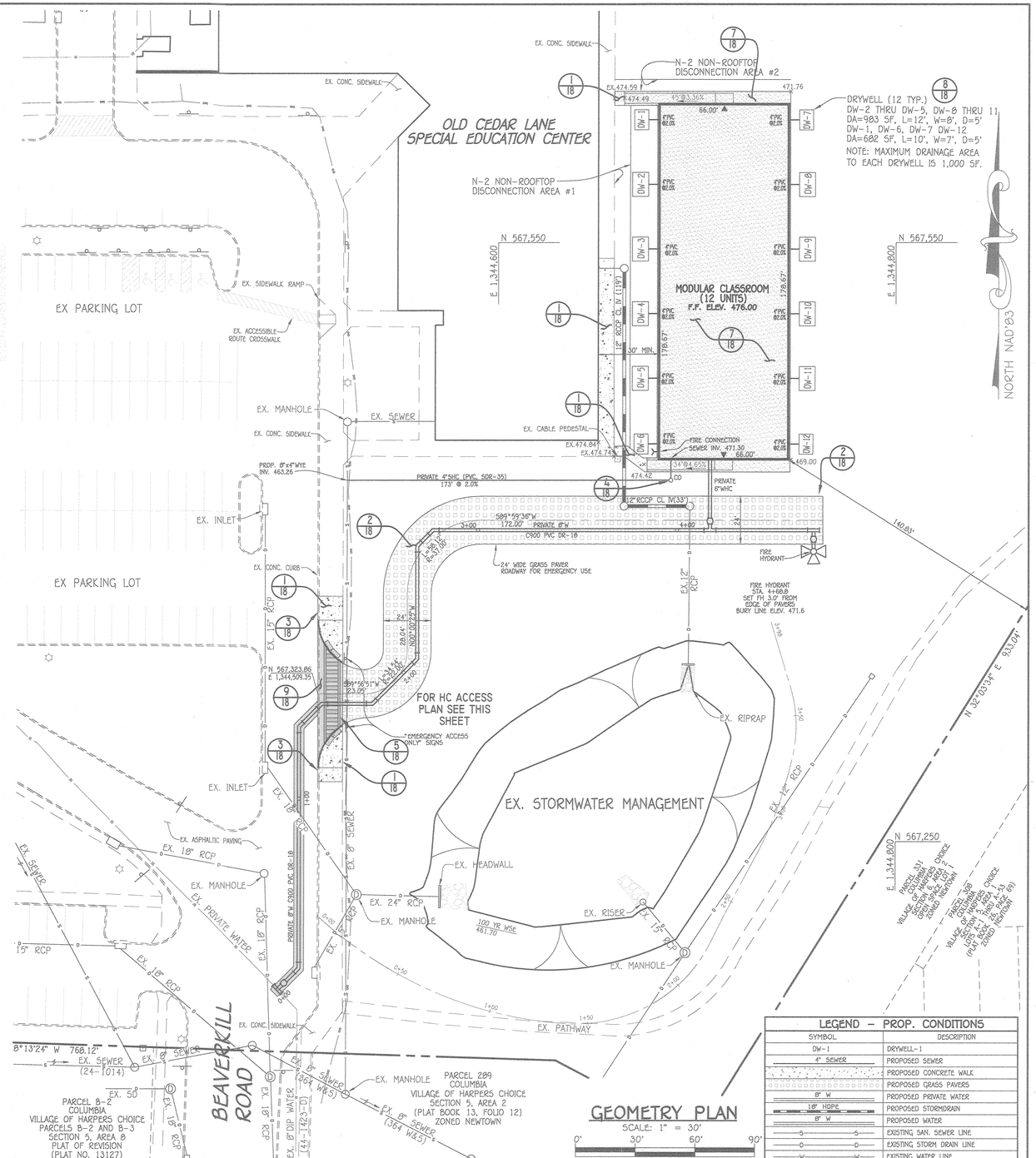
0' 30' 60' 90'



HC ACCESS PLAN

SCALE: 1" = 10'

0' 10' 20' 30'



GEOMETRY PLAN

SCALE: 1" = 30'

0' 30' 60' 90'

LEGEND – PROP. CONDITIONS	
SYMBOL	DESCRIPTION
DW-1	DRYWELL-1
4" SEWER	PROPOSED SEWER
	PROPOSED CONCRETE WALK
	PROPOSED GRASS PAVERS
8" W	PROPOSED PRIVATE WATER
18" HDPE	PROPOSED STORMDRAIN
8" W	PROPOSED WATER
5	EXISTING SAN. SEWER LINE
0	EXISTING STORM DRAIN LINE
W	EXISTING WATER LINE

FISHER, COLLINS & CARTER, INC.
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
CENTENNIAL SQUARE OFFICE PARK - 10272 BALTIMORE NATIONAL PIKE
ELLICOTT CITY, MARYLAND 21042
(410) 461 - 2855

"PROFESSIONAL CERTIFICATION. I HEREBY CERTIFY 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. 27020, EXPIRATION DATE: 01/25/26."

PAUL GERARD CAVANAUGH — DATE: Jan 18, 2024

DATE	DESCRIPTION
	REVISION BLOCK

APPROVED: DEPARTMENT OF PLANNING AND ZONING

Director - Department of Planning and Zoning — Date 2/16/24

Chief, Division of Land Development — Date 2/5/24

Chief, Development Engineering Division — Date 2/2/24

OWNER/DEVELOPER

PREPARED FOR
HOWARD COUNTY PUBLIC SCHOOL SYSTEM
9020 MENDENHALL COURT
SUITE 'C'
COLUMBIA, MARYLAND 21045
Attention: DANIEL LUBELEY
410-313-0203

STATE OF MARYLAND — PAUL GERARD CAVANAUGH — No. 27020 — REGISTERED PROFESSIONAL ENGINEER

ADDRESS CHART

PARCEL NO.	STREET ADDRESS
69	OLD CEDAR LANE SPECIAL ED CENTER
	COLUMBIA, MARYLAND 21044

PROJECT			SECTION/AREA		PARCEL
OLD CEDAR LANE SPECIAL ED CENTER			6/2		69
PLAT NOS.	BLOCK NO.	ZONE	TAX MAP	ELEC. DIST.	CENSUS TR.
-	17,23	NT	29	FIFTH	605502

GEOMETRY PLAN

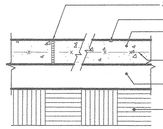
OLD CEDAR LANE SPECIAL EDUCATION CENTER

VILLAGE OF HARPER'S CHOICE
SECTION 6 AREA 2

ZONED: NEW TOWN
TAX MAP No.: 29 GRID No.: 17, 23 PARCEL No.: 69
FIFTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND
SCALE: AS SHOWN DATE: JANUARY, 2024
SHEET 17 OF 21

SDP-79-125c

I:\2022\22080\Engineering\Dwgs\SDP\22080 Redline C-17 GEOMETRY PLAN.dwg, PLAN, 1/18/2024 10:19:58 AM, 1:1

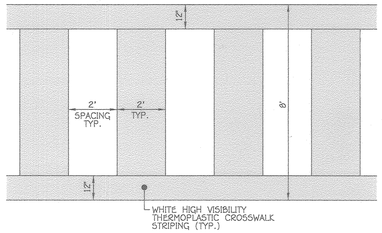


NOTE: INSTALL EXPANSION JOINTS AT MAX. 15'-0" O.C. AND INSTALL SCORING JOINTS AT MAX. 5'-0" O.C.

SLOPE ACROSS SIDEWALK SHALL BE MIN. 1/8" /FT.

1/18 CONCRETE WALK DETAIL

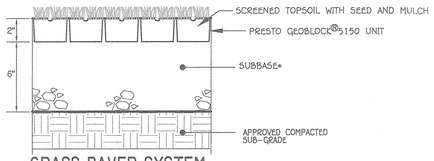
NO SCALE



5/18 PEDESTRIAN CROSSWALK DETAIL

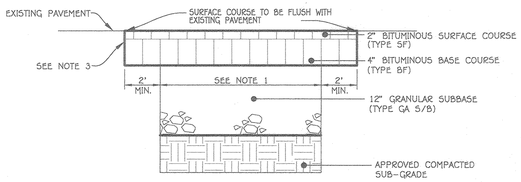
NO SCALE

*THE SUBBASE IS A HOMOGENOUS MIXTURE CONSISTING OF 1) A CLEAR-STONE/CRUSHED ROCK HAVING AN AASHTO#5 OR SIMILAR DESIGNATION BLENDED WITH 2) PULVERIZED TOPSOIL AND 3) A VOID COMPONENT GENERALLY CONTAINING AIR AND/OR WATER. THE AGGREGATE PORTION SHALL HAVE A PARTICLE RANGE FROM 9.5 MM TO 25 MM (0.375 TO 1.0 IN) WITH A D50 OF 13 MM (0.5 IN). THE PERCENTAGE VOID-SPACE OF THE AGGREGATE PORTION WHEN COMPACTED SHALL BE AT LEAST 30%. THE PULVERIZED TOPSOIL PORTION SHALL EQUAL 25%+ OF THE TOTAL VOLUME AND BE ADDED AND BLENDED TO PRODUCE A HOMOGENOUS MIXTURE PRIOR TO PLACEMENT OR WASHED INTO THE IN-PLACE COMPACTED AGGREGATE. ONCE PLACED, THE MIXTURE SHALL BE COMPACTED TO 95% STANDARD PROCTOR DENSITY.



2/18 GRASS PAVER SYSTEM PRESTO GEOSYSTEMS - GEOBLOCK® 5150

NO SCALE

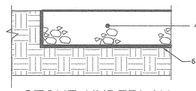


NOTES:

1. AGGREGATE SUB-BASE WIDTH SHALL BE 6 FEET MINIMUM OR ACTUAL TRENCH WIDTH, WHICH EVER IS GREATER.
2. HOT MIX ASPHALTIC PAVEMENT PATCH THICKNESS SHALL BE EQUIVALENT TO THE HEAVY DUTY PAVEMENT SECTION.
3. CLEAN EXPOSED VERTICAL SURFACE OF ADJACENT PAVEMENT AND PLACE TACK COAT ON ALL VERTICAL SURFACES PRIOR TO PAVING.
4. IF THE REMAINING EXISTING PAVEMENT IS LESS THAN 4' WIDE, THE RESIDUAL PAVEMENT SHALL BE REMOVED IN ITS ENTIRETY AND REPLACED.
5. SAW CUT FULL DEPTH ALL JOINTS OF EXISTING CONCRETE, BITUMINOUS, AND BASE PAVEMENTS.

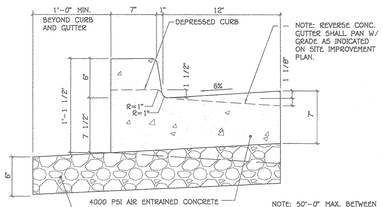
6/18 ASPHALTIC PATCH DETAIL

NO SCALE



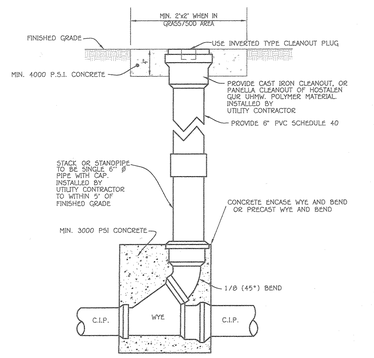
7/18 STONE UNDERLAY

NO SCALE



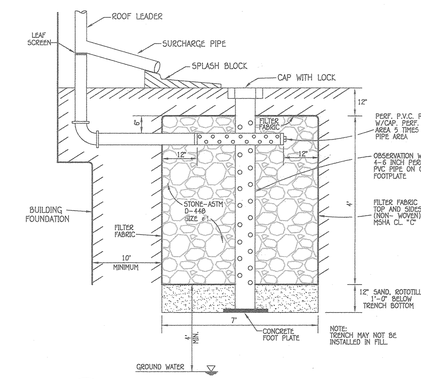
3/18 STANDARD 6" COMB. CONC. CURB AND GUTTER

NO SCALE



4/18 TYPICAL CLEAN-OUT

NO SCALE



8/18 DRYWELL (M-5)

NO SCALE

DRY WELL CHART

DRYWELL No.	AREA OF ROOF PER DRYWELL	VOLUME REQUIRED	VOLUME PROVIDED	AREA OF TREATMENT	L x W x D
DW-1	682 SQ. FT.	141 C.F.	141 C.F.	100%*	10' x 7' x 5'
DW-2	983 SQ. FT.	203 C.F.	203 C.F.	100%*	12' x 8' x 5'
DW-3	983 SQ. FT.	203 C.F.	203 C.F.	100%*	12' x 8' x 5'
DW-4	983 SQ. FT.	203 C.F.	203 C.F.	100%*	12' x 8' x 5'
DW-5	983 SQ. FT.	203 C.F.	203 C.F.	100%*	12' x 8' x 5'
DW-6	682 SQ. FT.	141 C.F.	141 C.F.	100%*	10' x 7' x 5'
DW-7	682 SQ. FT.	141 C.F.	141 C.F.	100%*	10' x 7' x 5'
DW-8	983 SQ. FT.	203 C.F.	203 C.F.	100%*	12' x 8' x 5'
DW-9	983 SQ. FT.	203 C.F.	203 C.F.	100%*	12' x 8' x 5'
DW-10	983 SQ. FT.	203 C.F.	203 C.F.	100%*	12' x 8' x 5'
DW-11	983 SQ. FT.	203 C.F.	203 C.F.	100%*	12' x 8' x 5'
DW-12	682 SQ. FT.	141 C.F.	141 C.F.	100%*	10' x 7' x 5'

* AREA OF TREATMENT EXCEEDS THAT REQUIRED.

HILLIS - CARNES ENGINEERING ASSOCIATES, INC.

RECORD OF SOIL EXPLORATION

Project Name: Old Cedar Lane — Boring No.: B-4
Location: Columbia, MD — Job #: 23380A

SAMPLER
Datum: NAD83 NAVD88 — Hammer Wt.: 140 lbs. — Hole Diameter: 6 in. — Foreman: N. Corner
Surf. Elev.: 473.00 ft — Hammer Drop: 30 in. — Rock Core Diameter: n/a — Inspector:
Date Started: 6/20/2023 — Pipe Size (O.D.): 2 in. — Boring Method: HSA — Date Completed: 6/20/2023

Elevation/ Depth (ft)	SOIL SYMBOL/ SAMPLE CONDITIONS	Description	Boring and Sampling Notes	Sample No.	Rec. (in)	NM (%)	SPT Blows	SPT N (blows/ft) N	10	30	50
0	D	Red brown, moist, loose, micaceous silty SAND with trace gravel and organics (SM)		1	6		4-3-4	7			
470	D	Red brown, moist, very soft to medium stiff, sandy SILT with some gravel (ML)		2	8		5-4-3	7			
5	D	Brown, trace organics	Groundwater was not encountered while drilling	3	2	18	1-1-1	2			
465	D	Brown, moist, stiff to very stiff, micaceous SILT with some sand (ML)		4	12		5-6-10	16			
10	D	Dark grey, trace gravel		5	12		7-7-13	20			
460		Bottom of boring at 15 feet									
15											
455											
20											
450											
25											
445											
30											

SAMPLER TYPE: DRIVEN SPLIT SPOON UNLESS OTHERWISE; PT - PRESSED SHELBY TUBE; CA - CONTINUOUS FLIGHT AUGER; RC - ROCK CORE
SAMPLE CONDITIONS: D - DISINTEGRATED; I - INTACT; U - UNDISTURBED; L - LOST
GROUND WATER: AT COMPLETION DRY ft.; AFTER 24 HRS. ____ ft.; AFTER ____ HRS. ____ ft.
CAVE IN DEPTH: DRY 11 ft.; ____ ft.; ____ ft.
BORING METHOD: HSA - HOLLOW STEM AUGERS; CFA - CONTINUOUS FLIGHT AUGERS; DC - DRIVING CASING; MD - MUD DRILLING

STANDARD PENETRATION TEST-DRIVING 2" O.D. SAMPLER 1' WITH 140# HAMMER FALLING 30". COUNT MADE AT 6" INTERVALS.

HILLIS - CARNES ENGINEERING ASSOCIATES, INC.

RECORD OF SOIL EXPLORATION

Project Name: Old Cedar Lane — Boring No.: B-5
Location: Columbia, MD — Job #: 23380A

SAMPLER
Datum: NAD83 NAVD88 — Hammer Wt.: 140 lbs. — Hole Diameter: 6 in. — Foreman: N. Corner
Surf. Elev.: 469.53 ft — Hammer Drop: 30 in. — Rock Core Diameter: n/a — Inspector:
Date Started: 6/19/2023 — Pipe Size (O.D.): 2 in. — Boring Method: HSA — Date Completed: 6/19/2023

Elevation/ Depth (ft)	SOIL SYMBOL/ SAMPLE CONDITIONS	Description	Boring and Sampling Notes	Sample No.	Rec. (in)	NM (%)	SPT Blows	SPT N (blows/ft) N	10	30	50
0	D	Brown, moist, medium stiff to very stiff, micaceous SILT with some sand (ML)	Topsoil - 0"	1	8		2-3-4	7			
465	D	Red brown		2	10		3-2-4	6			
5	D	Some sand and gravel	Groundwater was not encountered while drilling	3	14		4-4-6	12			
460	D	Brown, trace sand		4	14		10-11-6	17			
10	D	Light brown		5	10		6-5-5	10			
455		Bottom of boring at 15 feet									
15											
450											
20											
445											
25											
440											
30											

SAMPLER TYPE: DRIVEN SPLIT SPOON UNLESS OTHERWISE; PT - PRESSED SHELBY TUBE; CA - CONTINUOUS FLIGHT AUGER; RC - ROCK CORE
SAMPLE CONDITIONS: D - DISINTEGRATED; I - INTACT; U - UNDISTURBED; L - LOST
GROUND WATER: AT COMPLETION DRY ft.; AFTER 24 HRS. DRY ft.; AFTER ____ HRS. ____ ft.
CAVE IN DEPTH: 10.6 ft.; 10 ft.; ____ ft.
BORING METHOD: HSA - HOLLOW STEM AUGERS; CFA - CONTINUOUS FLIGHT AUGERS; DC - DRIVING CASING; MD - MUD DRILLING

STANDARD PENETRATION TEST-DRIVING 2" O.D. SAMPLER 1' WITH 140# HAMMER FALLING 30". COUNT MADE AT 6" INTERVALS.

HILLIS - CARNES ENGINEERING ASSOCIATES, INC.

RECORD OF SOIL EXPLORATION

Project Name: Old Cedar Lane — Boring No.: B-6
Location: Columbia, MD — Job #: 23380A

SAMPLER
Datum: NAD83 NAVD88 — Hammer Wt.: 140 lbs. — Hole Diameter: 6 in. — Foreman: N. Corner
Surf. Elev.: 473.49 ft — Hammer Drop: 30 in. — Rock Core Diameter: n/a — Inspector:
Date Started: 6/20/2023 — Pipe Size (O.D.): 2 in. — Boring Method: HSA — Date Completed: 6/20/2023

Elevation/ Depth (ft)	SOIL SYMBOL/ SAMPLE CONDITIONS	Description	Boring and Sampling Notes	Sample No.	Rec. (in)	NM (%)	SPT Blows	SPT N (blows/ft) N	10	30	50
0	D	Red brown, moist, medium stiff to very stiff, micaceous SILT with some sand and trace organics (ML) Some gravel, trace sand		1	4		6-5-5	10			
470	D			2	4		3-2-7	9			
5	D	Brown, trace sand, gravel, and organics	Groundwater was not encountered while drilling	3	3		2-3-3	6			
465	D	Red brown		4	12		8-7-10	17			
10	D	Dark grey, moist, no longer micaceous		5	10		6-5-5	10			
460		Bottom of boring at 15 feet									
15											
455											
20											
450											
25											
445											
30											

SAMPLER TYPE: DRIVEN SPLIT SPOON UNLESS OTHERWISE; PT - PRESSED SHELBY TUBE; CA - CONTINUOUS FLIGHT AUGER; RC - ROCK CORE
SAMPLE CONDITIONS: D - DISINTEGRATED; I - INTACT; U - UNDISTURBED; L - LOST
GROUND WATER: AT COMPLETION DRY ft.; AFTER 24 HRS. ____ ft.; AFTER ____ HRS. ____ ft.
CAVE IN DEPTH: DRY 10.0 ft.; ____ ft.; ____ ft.
BORING METHOD: HSA - HOLLOW STEM AUGERS; CFA - CONTINUOUS FLIGHT AUGERS; DC - DRIVING CASING; MD - MUD DRILLING

STANDARD PENETRATION TEST-DRIVING 2" O.D. SAMPLER 1' WITH 140# HAMMER FALLING 30". COUNT MADE AT 6" INTERVALS.

HILLIS - CARNES ENGINEERING ASSOCIATES, INC.

RECORD OF SOIL EXPLORATION

Project Name: Old Cedar Lane — Boring No.: B-7
Location: Columbia, MD — Job #: 23380A

SAMPLER
Datum: NAD83 NAVD88 — Hammer Wt.: 140 lbs. — Hole Diameter: 6 in. — Foreman: N. Corner
Surf. Elev.: 470.30 ft — Hammer Drop: 30 in. — Rock Core Diameter: n/a — Inspector:
Date Started: 6/19/2023 — Pipe Size (O.D.): 2 in. — Boring Method: HSA — Date Completed: 6/19/2023

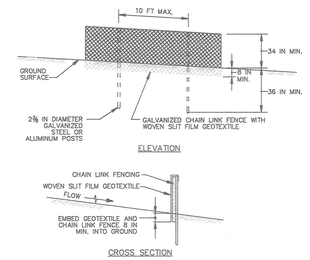
Elevation/ Depth (ft)	SOIL SYMBOL/ SAMPLE CONDITIONS	Description	Boring and Sampling Notes	Sample No.	Rec. (in)	NM (%)	SPT Blows	SPT N (blows/ft) N	10	30	50
0	D	Brown, moist, medium stiff, sandy SILT with trace organics and gravel (ML)		1	6		5-5-4	9			
470	D	Brown and red brown, moist, stiff, micaceous SILT with trace sand, gravel, and organics (ML)		2	8		6-6-8	13			
5	D	Some gravel	Groundwater was not encountered while drilling	3	10		6-6-5	11			
465	D	Red brown, some gravel, no longer micaceous		4	12		6-6-8	14			
10	D	Bottom of boring at 15 feet		5	13		5-5-5	10			
460											
15											
455											
20											
450											
25											
445											
30											

SAMPLER TYPE: DRIVEN SPLIT SPOON UNLESS OTHERWISE; PT - PRESSED SHELBY TUBE; CA - CONTINUOUS FLIGHT AUGER; RC - ROCK CORE
SAMPLE CONDITIONS: D - DISINTEGRATED; I - INTACT; U - UNDISTURBED; L - LOST
GROUND WATER: AT COMPLETION DRY ft.; AFTER 24 HRS. PVC ft.; AFTER ____ HRS. ____ ft.
CAVE IN DEPTH: 9.5 ft.; ____ ft.; ____ ft.
BORING METHOD: HSA - HOLLOW STEM AUGERS; CFA - CONTINUOUS FLIGHT AUGERS; DC - DRIVING CASING; MD - MUD DRILLING

STANDARD PENETRATION TEST-DRIVING 2" O.D. SAMPLER 1' WITH 140# HAMMER FALLING 30". COUNT MADE AT 6" INTERVALS.

DETAIL E-3 SUPER SILT FENCE

STANDARD SYMBOL: SSF

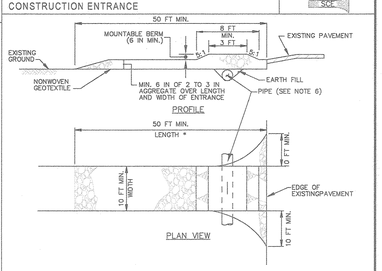


CONSTRUCTION SPECIFICATIONS

1. INSTALL 2½ INCH DIAMETER GALVANIZED STEEL POSTS OF 0.095 INCH WALL THICKNESS AND SIX FOOT LENGTH SPACED NO FURTHER THAN 10 FEET APART, DRIVE THE POSTS A MINIMUM OF 36 INCHES INTO THE GROUND.
2. FASTEN 9 GAUGE OR HEAVIER GALVANIZED CHAIN LINK FENCE (2½ INCH MAXIMUM OPENING) 42 INCHES IN HEIGHT SECURELY TO THE FENCE POSTS WITH WIRE TIES OR HOG RINGS.
3. FASTEN WOVEN SLIT FILM GEOTEXTILE AS SPECIFIED IN SECTION H-1 MATERIALS, SECURELY TO THE UPSLOPE SIDE OF CHAIN LINK FENCE WITH TIES SPACED EVERY 24 INCHES AT THE TOP AND MID SECTION. EMBED GEOTEXTILE AND CHAIN LINK FENCE A MINIMUM OF 8 INCHES INTO THE GROUND.
4. WHERE ENDS OF THE GEOTEXTILE COME TOGETHER, THE ENDS SHALL BE OVERLAPPED BY 6 INCHES, FOLDED, AND STAPLED TO PREVENT SEDIMENT BY PASS.
5. EXTEND BOTH ENDS OF THE SUPER SILT FENCE A MINIMUM OF FIVE HORIZONTAL FEET UPSLOPE AT 45 DEGREES TO THE MAIN FENCE ALIGNMENT TO PREVENT RUNOFF FROM GOING AROUND THE ENDS OF THE SUPER SILT FENCE.
6. PROVIDE MANUFACTURER CERTIFICATION TO THE INSPECTION/ENFORCEMENT AUTHORITY SHOWING THAT GEOTEXTILE USED MEETS THE REQUIREMENTS IN SECTION H-1 MATERIALS.
7. REMOVE ACCUMULATED SEDIMENT AND DEBRIS WHEN BULGES DEVELOP IN FENCE OR WHEN SEDIMENT REACHES 25% OF FENCE HEIGHT. REPLACE GEOTEXTILE IF TORN. IF UNDERMINING OCCURS, REINSTALL CHAIN LINK FENCING AND GEOTEXTILE.

DETAIL B-1 STABILIZED CONSTRUCTION ENTRANCE

STANDARD SYMBOL: SCE

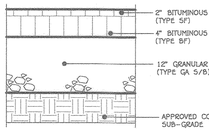


CONSTRUCTION SPECIFICATIONS

1. PLACE STABILIZED CONSTRUCTION ENTRANCE IN ACCORDANCE WITH THE APPROVED PLAN. VEHICLES MUST TRAVEL OVER THE ENTIRE LENGTH OF THE SCE. USE MINIMUM LENGTH OF 50 FEET (*50 FEET FOR SINGLE RESIDENCE LOT). USE MINIMUM WIDTH OF 10 FEET. FLARE SCE 10 FEET MINIMUM AT THE EXISTING ROAD TO PROVIDE A TURNING RADIUS.
2. PIPE ALL SURFACE WATER FLOWING TO OR DIVERTED TOWARD THE SCE UNDER THE ENTRANCE, MAINTAINING POSITIVE DRAINAGE. PROTECT PIPE INSTALLED THROUGH THE SCE WITH A MOUNTABLE BERM WITH 5:1 SLOPES AND A MINIMUM OF 12 INCHES OF STONE OVER THE PIPE. PROVIDE PIPE AS SPECIFIED ON APPROVED PLAN. WHEN THE SCE IS LOCATED AT A HIGH SPOT AND HAS NO DRAINAGE TO CONVEY, A PIPE IS NOT NECESSARY. A MOUNTABLE BERM IS REQUIRED WHEN SCE IS NOT LOCATED AT A HIGH SPOT.
3. PREPARE SUBGRADE AND PLACE NONWOVEN GEOTEXTILE, AS SPECIFIED IN SECTION H-1 MATERIALS.
4. PLACE CRUSHED AGGREGATE (2 TO 3 INCHES IN SIZE) OR EQUIVALENT RECYCLED CONCRETE (WITHOUT REBAR) AT LEAST 6 INCHES DEEP OVER THE LENGTH AND WIDTH OF THE SCE.
5. MAINTAIN ENTRANCE IN A CONDITION THAT MINIMIZES TRACKING OF SEDIMENT. ADD STONE OR MAKE OTHER REPAIRS AS CONDITIONS DEMAND TO MAINTAIN CLEAN SURFACE, MOUNTABLE BERM, AND SPECIFIED DIMENSIONS. IMMEDIATELY REMOVE STONE AND/OR SEDIMENT SPILLED, DROPPED, OR TRACKED ONTO ADJACENT ROADWAY BY VACUUMING, SCRAPING, AND/OR SWEEPING. WASHING ROADWAY TO REMOVE MUD TRACKED ONTO PAVEMENT IS NOT ACCEPTABLE UNLESS WASH WATER IS DIRECTED TO AN APPROVED SEDIMENT CONTROL PRACTICE.

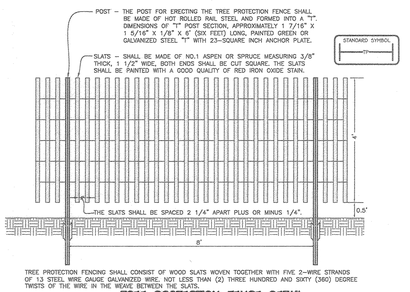
MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL

U.S. DEPARTMENT OF AGRICULTURE NATURAL RESOURCES CONSERVATION SERVICE	2011	MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION



9/18 HEAVY DUTY ASPHALTIC PAVING DETAIL

NO SCALE



TREE PROTECTION FENCING SHALL CONSIST OF WOOD SLATS WOVEN TOGETHER WITH FIVE 2-WIRE STRANDS OF 13 STEEL WIRE GAUGE GALVANIZED WIRE, NOT LESS THAN (2) THREE HUNDRED AND SIXTY (360) DEGREE TWISTS OF THE WIRE IN THE WEAVE BETWEEN THE SLATS.

NOT TO SCALE

TREE PROTECTION FENCE DETAIL

FISHER, COLLINS & CARTER, INC.
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
CENTENNIAL SQUARE OFFICE PARK - 10272 BALTIMORE NATIONAL PIKE
ELLICOTT CITY, MARYLAND 21042
(410) 461 - 2855

ENGINEER'S CERTIFICATE

"I HEREBY CERTIFY THAT THIS PLAN HAS BEEN DESIGNED IN ACCORDANCE WITH THE CURRENT MARYLAND EROSION AND SEDIMENT CONTROL LAWS, REGULATIONS, AND STANDARDS REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE, AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT."

SIGNATURE OF ENGINEER — DATE: Jan 18, 2024

"PROFESSIONAL CERTIFICATION. I HEREBY CERTIFY 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. 27020, EXPIRATION DATE: 01/25/26."

PAUL GERARD CAVANAUGH — DATE: Jan 18, 2024

DEVELOPER'S CERTIFICATE

"I/WE HEREBY CERTIFY THAT ANY CLEARING, GRADING, CONSTRUCTION, OR DEVELOPMENT WILL BE DONE PURSUANT TO THIS APPROVED EROSION AND SEDIMENT CONTROL PLAN, INCLUDING INSPECTING AND MAINTAINING CONTROLS, AND THAT THE RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF TRAINING AT A MARYLAND DEPARTMENT OF THE ENVIRONMENT (MDE) APPROVED TRAINING PROGRAM FOR THE CONTROL ON EROSION AND SEDIMENT PRIOR TO BEGINNING THE PROJECT. I CERTIFY RIGHT OF ENTRY FOR PERIODIC ON-SITE EVALUATION BY HOWARD COUNTY, THE HOWARD SOIL CONSERVATION DISTRICT AND/OR MDE."

SIGNATURE OF DEVELOPER — DATE: Jan 19 2024

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: 02/20/24

DATE	DESCRIPTION
	REVISION BLOCK

APPROVED: DEPARTMENT OF PLANNING AND ZONING

Director - Department of Planning and Zoning — Date: 2/6/24
Chief, Division of Land Development — Date: 2/7/24
Chief, Development Engineering Division — Date: 2/1/24

OWNER/DEVELOPER

PREPARED FOR
HOWARD COUNTY PUBLIC SCHOOL SYSTEM
9020 MENDENHALL COURT
SUITE "C"
COLUMBIA, MARYLAND 21045
Attention: DANIEL LUBELEY
410-313-6203

ADDRESS CHART

PARCEL NO.	STREET ADDRESS
69	OLD CEDAR LANE SPECIAL ED CENTER COLUMBIA, MARYLAND 21044

PROJECT				SECTION/AREA	PARCEL
OLD CEDAR LANE SPECIAL ED CENTER				6/2	69
PLAT NOS.	BLOCK NO.	ZONE	TAX MAP	ELEC. DIST.	CENSUS TR.
-	17,23	NT	29	FIFTH	605502

SITE DETAILS, BORING LOGS AND SEDIMENT CONTROL DETAILS

OLD CEDAR LANE SPECIAL EDUCATION CENTER

VILLAGE OF HARPER'S CHOICE
SECTION 6 AREA 2

ZONED: NEW TOWN
TAX MAP No.: 29 GRID No.: 17, 23 PARCEL No.: 69
FIFTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND
SCALE: AS SHOWN DATE: JANUARY, 2024
SHEET 18 OF 21

SDP-79-125c

I:\2022\22080\Engineering\Dwgs\SDP\22080 Redline C-18 DETAILS.dwg, DETAILS-1, 1/18/2024 10:21:23 AM, 1:1

PERMANENT SEEDING NOTES (B-4-5)

A. SEED MIXTURES

1. GENERAL USE
   A. SELECT ONE OR MORE OF THE SPECIES OR MIXTURES LISTED IN TABLE B.3 FOR THE APPROPRIATE PLANT HARDINESS ZONE (FROM FIGURE B.3) AND BASED ON THE SITE CONDITION OR PURPOSE FOUND ON TABLE B.2. ENTER SELECTED MIXTURE(S), APPLICATION RATES, AND SEEDING DATES IN THE PERMANENT SEEDING SUMMARY. THE SUMMARY IS TO BE PLACED ON THE PLAN.
   B. ADDITIONAL PLANTING SPECIFICATIONS FOR EXCEPTIONAL SITES SUCH AS SHORELINES, STREAM BANKS, OR DUNES OR FOR SPECIAL PURPOSES SUCH AS WILDLIFE OR AESTHETIC TREATMENT MAY BE FOUND IN USDA-NRCS TECHNICAL FIELD OFFICE GUIDE, SECTION 342 – CRITICAL AREA PLANTING.
   C. FOR SITES HAVING DISTURBED AREA OVER 5 ACRES, USE AND SHOW THE RATES RECOMMENDED BY THE SOIL TESTING AGENCY. D. FOR AREAS RECEIVING LOW MAINTENANCE, APPLY UREA FORM FERTILIZER (46-0-0) AT 3 1/2 POUNDS PER 1000 SQUARE FEET (150 POUNDS PER ACRE) AT THE TIME OF SEEDING IN ADDITION TO THE SOIL AMENDMENTS SHOWN IN THE PERMANENT SEEDING SUMMARY.
2. TURFGRASS MIXTURES
   A. AREAS WHERE TURFGRASS MAY BE DESIRED INCLUDE LAWNS, PARKS, PLAYGROUNDS, AND COMMERCIAL SITES WHICH WILL RECEIVE A MEDIUM TO HIGH LEVEL OF MAINTENANCE.
   B. SELECT ONE OR MORE OF THE SPECIES OR MIXTURES LISTED BELOW BASED ON THE SITE CONDITIONS OR PURPOSE. ENTER SELECTED MIXTURE(S), APPLICATION RATES, AND SEEDING DATES IN THE PERMANENT SEEDING SUMMARY. THE SUMMARY IS TO BE PLACED ON THE PLAN.
   I. KENTUCKY BLUEGRASS: FULL SUN MIXTURE: FOR USE IN AREAS THAT RECEIVE INTENSIVE MANAGEMENT. IRRIGATION REQUIRED IN THE AREAS OF CENTRAL MARYLAND AND EASTERN SHORE. RECOMMENDED CERTIFIED KENTUCKY BLUEGRASS CULTIVARS SEEDING RATE: 1.5 TO 2.0 POUNDS PER 1000 SQUARE FEET. CHOOSE A MINIMUM OF THREE KENTUCKY BLUEGRASS CULTIVARS WITH EACH RANGING FROM 10 TO 35 PERCENT OF THE TOTAL MIXTURE BY WEIGHT.
   II. KENTUCKY BLUEGRASS/PERENNIAL RYE: FULL SUN MIXTURE: FOR USE IN FULL SUN AREAS WHERE RAPID ESTABLISHMENT IS NECESSARY AND WHEN TURF WILL RECEIVE MEDIUM TO INTENSIVE MANAGEMENT. CERTIFIED PERENNIAL RYEGRASS CULTIVARS/CERTIFIED KENTUCKY BLUEGRASS SEEDING RATE: 2 POUNDS MIXTURE PER 1000 SQUARE FEET. CHOOSE A MINIMUM OF THREE KENTUCKY BLUEGRASS CULTIVARS WITH EACH RANGING FROM 10 TO 35 PERCENT OF THE TOTAL MIXTURE BY WEIGHT.
   III. TALL FESCUE/KENTUCKY BLUEGRASS: FULL SUN MIXTURE: FOR USE IN DROUGHT PRONE AREAS AND/OR FOR AREAS RECEIVING LOW TO MEDIUM MANAGEMENT IN FULL SUN TO MEDIUM SHADE. RECOMMENDED MIXTURE INCLUDES; CERTIFIED TALL FESCUE CULTIVARS 95 TO 100 PERCENT, CERTIFIED KENTUCKY BLUEGRASS CULTIVARS 0 TO 5 PERCENT. SEEDING RATE: 5 TO 8 POUNDS PER 1000 SQUARE FEET. ONE OR MORE CULTIVARS MAY BE BLENDED.
   IV. KENTUCKY BLUEGRASS/FINE FESCUE: SHADE MIXTURE: FOR USE IN AREAS WITH SHADE IN BLUEGRASS LAWNS. FOR ESTABLISHMENT IN HIGH QUALITY, INTENSIVELY MANAGED TURF AREA. MIXTURE INCLUDES; CERTIFIED KENTUCKY BLUEGRASS CULTIVARS 30 TO 40 PERCENT AND CERTIFIED FINE FESCUE AND 60 TO 70 PERCENT. SEEDING RATE: 1 1/2 TO 3 POUNDS PER 1000 SQUARE FEET.
   NOTE:
   SELECT TURFGRASS VARIETIES FROM THOSE LISTED IN THE MOST CURRENT UNIVERSITY OF MARYLAND PUBLICATION, AGRONOMY MEMO #77, "TURFGRASS CULTIVAR RECOMMENDATIONS FOR MARYLAND" CHOOSE CERTIFIED MATERIAL. CERTIFIED MATERIAL IS THE BEST GUARANTEE OF CULTIVAR PURITY. THE CERTIFICATION PROGRAM OF THE MARYLAND DEPARTMENT OF AGRICULTURE, TURF AND SEED SECTION, PROVIDES A RELIABLE MEANS OF CONSUMER PROTECTION AND ASSURES A PURE GENETIC LINE
   C. IDEAL TIMES OF SEEDING FOR TURF GRASS MIXTURES WESTERN MD: MARCH 15 TO JUNE 1, AUGUST 1 TO OCTOBER 1 (HARDINESS ZONES: 5B, 6A) CENTRAL MD: MARCH 1 TO MAY 15, AUGUST 15 TO OCTOBER 15 (HARDINESS ZONE: 6B) SOUTHERN MD, EASTERN SHORE: MARCH 1 TO MAY 15, AUGUST 15 TO OCTOBER 15 (HARDINESS ZONES: 7A, 7B)
   D. TILL AREAS TO RECEIVE SEED BY DISKING OR OTHER APPROVED METHODS TO A DEPTH OF 2 TO 4 INCHES, LEVEL AND RAKE THE AREAS TO PREPARE A PROPER SEEDBED. REMOVE STONES AND DEBRIS OVER 1 1/2 INCHES IN DIAMETER THE RESULTING SEEDBED MUST BE IN SUCH CONDITION THAT FUTURE MOWING OF GRASSES WILL POSE NO DIFFICULTY.
   E. IF SOIL MOISTURE IS DEFICIENT, SUPPLY NEW SEEDINGS WITH ADEQUATE WATER FOR PLANT GROWTH (1/2 TO 1 INCH EVERY 3 TO 4 DAYS DEPENDING ON SOIL TEXTURE) UNTIL THEY ARE FIRMLY ESTABLISHED. THIS IS ESPECIALLY TRUE WHEN SEEDINGS ARE MADE LATE IN THE PLANTING SEASON, IN ABNORMALLY DRY OR HOT SEASONS, OR ON ADVERSE SITES.

PERMANENT SEEDING SUMMARY

HARDINESS ZONE (FROM FIGURE B.3): 6B SEED MIXTURE (FROM TABLE B.3): 8					FERTILIZER RATE (10-20-20)			LIME RATE
NO.	SPECIES	APPLICATION RATE (LB/AC)	SEEDING DATES	SEEDING DEPTHS	N	P_2O_5	K_2O	
8	TALL FESCUE	100	MAR. 1-MAY 15 AUG. 1-OCT. 15	1/4-1/2 IN.	45 LBS. PER ACRE (1.0 LB/ 1000 SF)	90 LB/AC (2 LB/ 1000 SF)	90 LB/AC (2 LB/ 1000 SF)	2 TONS/AC (90 LB/ 1000 SF)

B. SOD: TO PROVIDE QUICK COVER ON DISTURBED AREAS (2:1 GRADE OR FLATTER).

1. GENERAL SPECIFICATIONS
   A. CLASS OF TURFGRASS SOD MUST BE MARYLAND STATE CERTIFIED. SOD LABELS MUST BE MADE AVAILABLE TO THE JOB FOREMAN AND INSPECTOR.
   B. SOD MUST BE MACHINE CUT AT A UNIFORM SOIL THICKNESS TO 3/4 INCH, PLUS OR MINUS 1/4 INCH, AT THE TIME OF CUTTING. MEASUREMENT FOR THICKNESS MUST EXCLUDE TOP GROWTH AND THATCH. BROKEN PADS AND TORN OR UNEVEN ENDS WILL NOT BE ACCEPTABLE.
   C. STANDARD SIZE SECTIONS OF SOD MUST BE STRONG ENOUGH TO SUPPORT THEIR OWN WEIGHT AND RETAIN THEIR SIZE AND SHAPE WHEN SUSPENDED VERTICALLY WITH A FIRM GRASP ON THE UPPER 10 PERCENT OF THE SECTION.
   D. SOD MUST NOT BE HARVESTED OR TRANSPLANTED WHEN MOISTURE CONTENT (EXCESSIVELY DRY OF WET) MAY ADVERSELY AFFECT ITS SURVIVAL.
   E. SOD MUST BE HARVESTED, DELIVERED, AND INSTALLED WITHIN A PERIOD OF 36 HOURS. SOD NOT TRANSPLANTED WITHIN THIS PERIOD MUST BE APPROVED BY AN AGRONOMIST OR SOIL SCIENTIST PRIOR TO ITS INSTALLATION.
2. SOD INSTALLATION
   A. DURING PERIODS OF EXCESSIVELY HIGH TEMPERATURE OR IN AREAS HAVING DRY SUBSOIL, LIGHTLY IRRIGATE THE SUBSOIL IMMEDIATELY PRIOR TO LAYING THE SOD.
   B. LAY THE FIRST ROW OF SOD IN A STRAIGHT LINE WITH SUBSEQUENT ROWS PLACED PARALLEL TO IT AND TIGHTLY WEDGED AGAINST EACH OTHER. STAGGER LATERAL JOINTS TO PROMOTE MORE UNIFORM GROWTH AND STRENGTH. ENSURE THAT SOD IS NOT STRETCHED OR OVERLAPPED AND THAT ALL JOINTS ARE BUTTED TIGHT IN ORDER TO PREVENT VOIDS WHICH WOULD CAUSE AIR DRYING OF THE ROOTS.
   C. WHEREVER POSSIBLE, LAY SOD WITH THE LONG EDGES PARALLEL TO THE CONTOUR AND WITH STAGGERING JOINTS. ROLL AND TAMP, PEG OR OTHERWISE SECURE THE SOD TO PREVENT SLIPPAGE ON SLOPES. ENSURE SOLID CONTACT EXISTS BETWEEN SOD ROOTS AND THE UNDERLYING SOIL SURFACE.
   D. WATER THE SOD IMMEDIATELY FOLLOWING ROLLING AND TAMPING UNTIL THE UNDERSIDE OF THE NEW SOD PAD AND SOIL SURFACE BELOW THE SOD ARE THOROUGHLY WET. COMPLETE THE OPERATIONS OF LAYING, TAMPING, AND IRRIGATING FOR ANY PIECE OF SOD WITHIN EIGHT HOURS.
3. SOD MAINTENANCE
   A. IN THE ABSENCE OF ADEQUATE RAINFALL, WATER DAILY DURING THE FIRST WEEK OR AS OFTEN AND SUFFICIENTLY AS NECESSARY TO MAINTAIN MOIST SOIL TO A DEPTH OF 4 INCHES. WATER SOD DURING THE HEAT OF THE DAY TO PREVENT WILTING.
   B. AFTER THE FIRST WEEK, SOD WATERING IS REQUIRED AS NECESSARY TO MAINTAIN ADEQUATE MOISTURE CONTENT.
   C. DO NOT MOW UNTIL THE SOD IS FIRMLY ROOTED. NO MORE THAN 1/3 OF THE GRASS LEAF MUST BE REMOVED BY THE INITIAL CUTTING OR SUBSEQUENT CUTTINGS. MAINTAIN A GRASS HEIGHT OF AT LEAST 3 INCHES UNLESS OTHERWISE SPECIFIED.

OPERATION AND MAINTENANCE SCHEDULE FOR DRYWELLS (M-5)

1. THE OWNER SHALL INSPECT THE MONITORING WELLS AND STRUCTURES ON A QUARTERLY BASIS AND AFTER EVERY HEAVY STORM EVENT.
2. THE OWNER SHALL RECORD THE WATER LEVELS AND SEDIMENT BUILD UP IN THE MONITORING WELLS OVER A PERIOD OF SEVERAL DAYS TO INSURE TRENCH DRAINAGE.
3. THE OWNER SHALL MAINTAIN A LOG BOOK TO DETERMINE THE RATE AT WHICH THE FACILITY DRAINS.
4. WHEN THE FACILITY BECOMES CLOGGED SO THAT IT DOES NOT DRAIN DOWN WITHIN A SEVENTY TWO (72) HOUR TIME PERIOD, CORRECTIVE ACTION SHALL BE TAKEN.
5. THE MAINTENANCE LOG BOOK SHALL BE AVAILABLE TO HOWARD COUNTY FOR INSPECTION TO INSURE COMPLIANCE WITH OPERATION AND MAINTENANCE CRITERIA.
6. ONCE THE PERFORMANCE CHARACTERISTICS OF THE INFILTRATION FACILITY HAVE BEEN VERIFIED, THE MONITORING SCHEDULE CAN BE REDUCED TO AN ANNUAL BASIS UNLESS THE PERFORMANCE DATA INDICATES THAT A MORE FREQUENT SCHEDULE IS REQUIRED.

B-4-3 STANDARDS AND SPECIFICATIONS FOR SEEDING AND MULCHING

Definition

The application of seed and mulch to establish vegetative cover.

Purpose

To protect disturbed soils from erosion during and at the end of construction.

Conditions Where Practice Applies

To the surface of all perimeter controls, slopes, and any disturbed area not under active grading.

Criteria

A. Seeding
1. Specifications
a. All seed must meet the requirement of the Maryland State Seed Law. All seed must be subject to re-testing by a recognized seed laboratory. All seed used must have been tested within the 6 months immediately preceding the date of sowing such material on any project. Refer to Table B.4 regarding the quality of seed. Seed tags must be available upon request to the inspector to verify type of seed and seeding rate.
b. Mulch alone may be applied between the fall and spring seeding dates only if the ground is frozen. The appropriate seeding mixture must be applied when the ground thaws.
c. Inoculants: The inoculant for treating legume seed in the seed mixtures must be a pure culture of nitrogen fixing bacteria prepared specifically for the species. Inoculants must not be used later than the date indicated on the container. Add fresh inoculants as directed on the package. Use four times the recommended rate when hydroseeding. Note: It is very important to keetp inoculant as cook as possible until used. Temperatures above 75 to 80 degrees Fahrenheit can weaken bacteria and make the inoculant less effective.
d. Sod or seed must not be placed on soil which has been treated with soil sterilants or chemicals used for weedcontrol until sufficient time has elapsed (14 days min.) to permit dissipation of phyto-toxic materials.

2. Application
a. Dry Seeding: This includes use of conventional drop or broadcast spreaders.
i. Incorporate seed into the subsoil at the rates prescribed on Temporary Seeding Table B.1, Permanent Seeding Table B.3, or site-specific seeding summaries.
ii. Apply seed in two directions, perpendicular to each other. Apply half the seeding rate in each direction. Roll the seeded area with weighted roller to provide good seed to soil contact.
b. Drill or Cultipacker Seeding: Mechanized seeders that apply and cover seed with soil.
i. Cultipacking seeders are required to bury the seed in such a fashion as to provide at least 1/4 inch of soil covering. Seedbed must be firm after planting.
ii. Apply seed in two directions, perpendicular to each other. Apply half the seeding rate in each direction.
c. Hydroseeding: Apply seed uniformly with hydroseeder (slurry includes seed and fertilizer).
i. If fertilizer is being applied at the time of seeding, the application rates should not exceed the following: nitrogen, 100 pounds per acre total of soluble nitrogen; P O (phosphorus), 200 pounds per acre; K O (potassium), 200 pounds per acre.
ii. Lime: Use only ground agricultural limestone (up to 3 tons per acre may be applied by hydroseeding). Normally, not more than 2 tons are applied by hydroseeding at any one time. Do not use burnt or hydrated lime when hydroseeding.
iii. Mix seed and fertilizer on site and seed immediately and without interruption.
iv. When hydroseeding do not incorporate seed into the soil.

B. Mulching
1. Mulch Materials (in order of preference)
a.a. Straw consisting of thoroughly threshed wheat, rye, oat, or barley and reasonably bright in color. Straw is to be free of noxious weed seeds as specified in the Maryland Seed Law and not musty, moldy, caked, decayed, or excessively dusty. Note: Use only sterile straw mulch in areas where one species of grass is desired.
a. Wood Cellulose Fiber Mulch (WCFM) consisting of specially prepared wood cellulose processed into uniform fibrous physical state.
i. WCFM is to be dyed green or contain a green dye in the package that will provide an appropriate colot to facilitate visual inspection of the uniformly spread slurry.
ii. WCFM, including dye, must contain no germination or growth inhibiting factors.
iii.a. WCFM materials are to be manufactured and processed in such a manner that the wood cellulose fiber mulch will remain in uniform suspension in water under agitation and will blend with seed, fertilizer and other additives to form a homogeneous slurry. The mulch material must form a blotter-like ground cover, on application, having moisture absorption and percolation properties and must cover and hold grass seed in contact with the soil without inhibiting the growth of the grass seedlings.
iv. WCFM material must not contain elements or compounds at concentration levels that will by phyto-toxic.
v. WCFM must conform to the following physical requirements: fiber length of approximately 10 millimeters, diameter approximately 1 millimeter, pH range of 4.0 to 8.5, ash content of 1.6 percent maximum and water holding capacity of 90 percent minimum.
2. Application
a. Apply mulch to all seeded areas immediately after seeding.
b. When straw mulch is used, spread it over all seeded areas at the rate of 2 tons per acre to a uniform loose depth of 1 to 2 inches. Apply mulch to achieve a uniform distribution and depth so that the soil surface is not exposed. When using a mulch anchoring tool, increase the application rate to 2.5 tons per acre.
c. Wood cellulose fiber used as mulch must be applied to a net dry weight of 1500 pounds per acre. Mix the wood cellulose fiber with water to attain a mixture with a maximum of 50 pounds of wood cellulose fiber per 100 gallons of water.
3. Anchoring
a. Perform mulch anchoring immediately following application of mulch to minimize loss by wind or water. This may be done by one of the following methods (listed by preference), depending upon the size of the area and erosion hazard:
i. A mulch anchoring tool is a tractor drawn implement designed to punch and anchor mulch into the soil surface a minimum of 2 inches. This practice is most effective on large areas, but is limited to flatter slopes where equipment can operate safely. If used on sloping land, this practice should follow the contour.
ii. Wood cellulose fiber may be used for anchoring straw. Apply the fiber binder at a net dry weight of 750 pounds per acre. Mix the wood cellulose fiber with water at a maximum of 50 pounds of wood cellulose fiber per 100 gallons of water.
iii. Synthetic binders such as Acrylic DLR (Agro-Tack), DCA-70, Petroset, Terra Tax II, Terra Tack AR or other approved equal may be used. Follow application rates as specified by the manufacturer. Application of liquid binders needs to be heavier at the edges where wind catches mulch, such as in valleys and on crests of banks. Use of asphalt binders is strictly prohibited.
iv. Lightweight plastic netting may be stapled over the mulch according to manufacturer recommendations. Netting is usually available in rolls 4-15 feet wide and 300 to 3,000 feet long.

OPERATION & MAINTENANCE SCHEDULE FOR PRIVATELY OWNED AND MAINTAINED, DISCONNECTION OF NON-ROOFTOP RUNOFF (N-2)

1. MAINTENANCE OF AREAS RECEIVING DISCONNECTION RUNOFF IS GENERALLY NO DIFFERENT THAN THAT REQUIRED FOR OTHER LAWN OR LANDSCAPED AREAS. THE AREAS RECEIVING RUNOFF SHOULD BE PROTECTED FROM FUTURE COMPACTION OR DEVELOPMENT OF IMPERVIOUS AREA. IN COMMERCIAL AREAS FOOT TRAFFIC SHOULD BE DISCOURAGED AS WELL.

SOIL PREPARATION, TOPSOILING AND SOIL AMENDMENTS (B-4-2)

A. SOIL PREPARATION

1. TEMPORARY STABILIZATION

A. SEEDBED PREPARATION CONSISTS OF LOOSENING SOIL TO A DEPTH OF 3 TO 5 INCHES BY MEANS OF SUITABLE AGRICULTURAL OR CONSTRUCTION EQUIPMENT, SUCH AS DISC HARROWS OR CHISEL PLOWS OR RIPPERS MOUNTED ON CONSTRUCTION EQUIPMENT. AFTER THE SOIL IS LOOSENED, IT MUST NOT BE ROLLED OR DRAGGED SMOOTH BUT LEFT IN THE ROUGHENED CONDITION. SLOPES 3:1 OR FLATTER ARE TO BE TRACKED WITH RIDGES RUNNING PARALLEL TO THE CONTOUR OF THE SLOPE.

B. APPLY FERTILIZER AND LIME AS PRESCRIBED ON THE PLANS.

C. INCORPORATE LIME AND FERTILIZER INTO THE TOP 3 TO 5 INCHES OF SOIL BY DISKING OR OTHER SUITABLE MEANS.

2. PERMANENT STABILIZATION
A. A SOIL TEST IS REQUIRED FOR ANY EARTH DISTURBANCE OF 5 ACRES OR MORE. THE MINIMUM SOIL CONDITIONS REQUIRED FOR PERMANENT VEGETATIVE ESTABLISHMENT ARE:
I. SOIL PH BETWEEN 6.0 AND 7.0.
II. SOLUBLE SALTS LESS THAN 500 PARTS PER MILLION (PPM).
III. SOIL CONTAINS LESS THAN 40 PERCENT CLAY BUT ENOUGH FINE GRAINED MATERIAL (GREATER THAN 30 PERCENT SILT PLUS CLAY) TO PROVIDE THE CAPACITY TO HOLD A MODERATE AMOUNT OF MOISTURE. AN EXCEPTION: IF LOVEGRASS WILL BE PLANTED, THEN A SANDY SOIL (LESS THAN 30 PERCENT SILT PLUS CLAY) WOULD BE ACCEPTABLE.
IV. SOIL CONTAINS 1.5 PERCENT MINIMUM ORGANIC MATTER BY WEIGHT.
V. SOIL CONTAINS SUFFICIENT PORE SPACE TO PERMIT ADEQUATE ROOT PENETRATION.
B. APPLICATION OF AMENDMENTS OR TOPSOIL IS REQUIRED IF ON-SITE SOILS DO NOT MEET THE ABOVE CONDITIONS.
C. GRADED AREAS MUST BE MAINTAINED IN A TRUE AND EVEN GRADE AS SPECIFIED ON THE APPROVED PLAN, THEN SCARIFIED OR OTHERWISE LOOSENED TO A DEPTH OF 3 TO 5 INCHES.
D. APPLY SOIL AMENDMENTS AS SPECIFIED ON THE APPROVED PLAN OR AS INDICATED BY THE RESULTS OF A SOIL TEST.
E. MIX SOIL AMENDMENTS INTO THE TOP 3 TO 5 INCHES OF SOIL BY DISKING OR OTHER SUITABLE MEANS. RAKE LAWN AREAS TO SMOOTH THE SURFACE, REMOVE LARGE OBJECTS LIKE STONES AND BRANCHES, AND READY THE AREA FOR SEED APPLICATION. LOOSEN SURFACE SOIL BY DRAGGING WITH A HEAVY CHAIN OR OTHER EQUIPMENT TO ROUGHEN THE SURFACE WHERE SITE CONDITIONS WILL NOT PERMIT NORMAL SEEDBED PREPARATION. TRACK SLOPES 3:1 OR FLATTER WITH TRACKED EQUIPMENT LEAVING THE SOIL IN AN IRREGULAR CONDITION WITH RIDGES RUNNING PARALLEL TO THE CONTOUR OF THE SLOPE. LEAVE THE TOP 1 TO 3 INCHES OF SOIL LOOSE AND FRIABLE. SEEDBED LOOSENING MAY BE UNNECESSARY ON NEWLY DISTURBED AREAS.

B. TOPSOILING

1. TOPSOIL IS PLACED OVER PREPARED SUBSOIL PRIOR TO ESTABLISHMENT OF PERMANENT VEGETATION. THE PURPOSE IS TO PROVIDE A SUITABLE SOIL MEDIUM FOR VEGETATIVE GROWTH. SOILS OF CONCERN HAVE LOW MOISTURE CONTENT, LOW NUTRIENT LEVELS, LOW PH, MATERIALS TOXIC TO PLANTS, AND/OR UNACCEPTABLE SOIL GRADATION.

2. TOPSOIL SALVAGED FROM AN EXISTING SITE MAY BE USED PROVIDED IT MEETS THE STANDARDS AS SET FORTH IN THESE SPECIFICATIONS. TYPICALLY, THE DEPTH OF TOPSOIL TO BE SALVAGED FOR A GIVEN SOIL TYPE CAN BE FOUND IN THE REPRESENTATIVE SOIL PROFILE SECTION IN THE SOIL SURVEY PUBLISHED BY USDA-NRCS.

3. TOPSOILING IS LIMITED TO AREAS HAVING 2:1 OR FLATTER SLOPES WHERE:
A. THE TEXTURE OF THE EXPOSED SUBSOIL/PARENT MATERIAL IS NOT ADEQUATE TO PRODUCE VEGETATIVE GROWTH.
B. THE SOIL MATERIAL IS SO SHALLOW THAT THE ROOTING ZONE IS NOT DEEP ENOUGH TO SUPPORT PLANTS OR FURNISH CONTINUING SUPPLIES OF MOISTURE AND PLANT NUTRIENTS.
C. THE ORIGINAL SOIL TO BE VEGETATED CONTAINS MATERIAL TOXIC TO PLANT GROWTH.
D. THE SOIL IS SO ACIDIC THAT TREATMENT WITH LIMESTONE IS NOT FEASIBLE.

4. AREAS HAVING SLOPES STEEPER THAN 2:1 REQUIRE SPECIAL CONSIDERATION AND DESIGN.

5. TOPSOIL SPECIFICATIONS: SOIL TO BE USED AS TOPSOIL MUST MEET THE FOLLOWING CRITERIA:
A. TOPSOIL MUST BE A LOAM, SANDY LOAM, CLAY LOAM, SILT LOAM, SANDY CLAY LOAM, OR LOAMY SAND. OTHER SOILS MAY BE USED IF RECOMMENDED BY AN AGRONOMIST OR SOIL SCIENTIST AND APPROVED BY THE APPROPRIATE APPROVAL AUTHORITY. TOPSOIL MUST NOT BE A MIXTURE OF CONTRASTING TEXTURED SUBSOILS AND MUST CONTAIN LESS THAN 5 PERCENT BY VOLUME OF CINDERS, STONES, SLAG, COARSE FRAGMENTS, GRAVEL, STICKS, ROOTS, TRASH, OR OTHER MATERIALS LARGER THAN 1 1/2 INCHES IN DIAMETER.
B. TOPSOIL MUST BE FREE OF NOXIOUS PLANTS OR PLANT PARTS SUCH AS BERMUDA GRASS, QUACK GRASS, JOHNSON GRASS, NUT SEDGE, POISON IVY, THISTLE, OR OTHERS AS SPECIFIED.
C. TOPSOIL SUBSTITUTES OR AMENDMENTS, AS RECOMMENDED BY A QUALIFIED AGRONOMIST OR SOIL SCIENTIST AND APPROVED BY THE APPROPRIATE APPROVAL AUTHORITY, MAY BE USED IN LIEU OF NATURAL TOPSOIL.

6. TOPSOIL APPLICATION A. EROSION AND SEDIMENT CONTROL PRACTICES MUST BE MAINTAINED WHEN APPLYING TOPSOIL.
B. UNIFORMLY DISTRIBUTE TOPSOIL IN A 5 TO 8 INCH LAYER AND LIGHTLY COMPACT TO A MINIMUM THICKNESS OF 4 INCHES. SPREADING IS TO BE PERFORMED IN SUCH A MANNER THAT SODDING OR SEEDING CAN PROCEED WITH A MINIMUM OF ADDITIONAL SOIL PREPARATION AND TILLAGE. ANY IRREGULARITIES IN THE SURFACE RESULTING FROM TOPSOILING OR OTHER OPERATIONS MUST BE CORRECTED IN ORDER TO PREVENT THE FORMATION OF DEPRESSIONS OR WATER POCKETS.
C. TOPSOIL MUST NOT BE PLACED IF THE TOPSOIL OR SUBSOIL IS IN A FROZEN OR MUDDY CONDITION, WHEN THE SUBSOIL IS EXCESSIVELY WET OR IN A CONDITION THAT MAY OTHERWISE BE DETRIMENTAL TO PROPER GRADING AND SEEDBED PREPARATION.

C. SOIL AMENDMENTS (FERTILIZER AND LIME SPECIFICATIONS)

1. SOIL TESTS MUST BE PERFORMED TO DETERMINE THE EXACT RATIOS AND APPLICATION RATES FOR BOTH LIME AND FERTILIZER ON SITES HAVING DISTURBED AREAS OF 5 ACRES OR MORE. SOIL ANALYSIS MAY BE PERFORMED BY A RECOGNIZED PRIVATE OR COMMERCIAL LABORATORY. SOIL SAMPLES TAKEN FOR ENGINEERING PURPOSES MAY ALSO BE USED FOR CHEMICAL ANALYSES.

2. FERTILIZERS MUST BE UNIFORM IN COMPOSITION, FREE FLOWING AND SUITABLE FOR ACCURATE APPLICATION BY APPROPRIATE EQUIPMENT. MANURE MAY BE SUBSTITUTED FOR FERTILIZER WITH PRIOR APPROVAL FROM THE APPROPRIATE APPROVAL AUTHORITY. FERTILIZERS MUST ALL BE DELIVERED TO THE SITE FULLY LABELED ACCORDING TO THE APPLICABLE LAWS AND MUST BEAR THE NAME, TRADE NAME OR TRADEMARK AND WARRANTY OF THE PRODUCER.

3. LIME MATERIALS MUST BE GROUND LIMESTONE (HYDRATED OR BURNT LIME MAY BE SUBSTITUTED EXCEPT WHEN HYDROSEEDING) WHICH CONTAINS AT LEAST 50 PERCENT TOTAL OXIDES (CALCIUM OXIDE PLUS MAGNESIUM OXIDE). LIMESTONE MUST BE GROUND TO SUCH FINENESS THAT AT LEAST 50 PERCENT WILL PASS THROUGH A #100 MESH SIEVE AND 98 TO 100 PERCENT WILL PASS THROUGH A #20 MESH SIEVE.

4. LIME AND FERTILIZER ARE TO BE EVENLY DISTRIBUTED AND INCORPORATED INTO THE TOP 3 TO 5 INCHES OF SOIL BY DISKING OR OTHER SUITABLE MEANS.

5. WHERE THE SUBSOIL IS EITHER HIGHLY ACIDIC OR COMPOSED OF HEAVY CLAYS, SPREAD GROUND LIMESTONE AT THE RATE OF 4 TO 8 TONS/ACRE (200-400 POUNDS PER 1,000 SQUARE FEET) PRIOR TO THE PLACEMENT OF TOPSOIL.

OLD CEDAR LANE MODULAR BUILDING RELOCATION SEQUENCE OF CONSTRUCTION

1. OBTAIN GRADING PERMIT. (1 DAY)
2. NOTIFY MISS UTILITY (1-800-257-7777) TWO (2) FULL BUSINESS DAYS BEFORE STARTING WORK. NOTIFY THE HOWARD COUNTY CONSTRUCTION INSPECTION DIVISION (410-313-1855) 24 HOURS BEFORE STARTING WORK AND NOTIFY THE BALTIMORE GAS AND ELECTRIC COMPANY (410-291-5739) FIVE (5) WORKING DAYS PRIOR TO STARTING WORK.
3. INSTALL ALL PERIMETER CONTROLS: INSTALL SCE WITH WASH RACK. INSTALL PERIMETER SUPER SILT FENCE AND CONSTRUCTION FENCING. (2 DAYS)
4. DEMOLISH EXISTING SIDEWALK AND MACADAM AND REMOVE TREES. ROUGH GRADE FOR MODULAR BUILDING. (3 DAYS)
5. RELOCATE STORM DRAINS, INSTALL WATER AND SEWER MAINS. (1 WEEK)
6. INSTALL MODULAR CLASSROOM BUILDING. (1 WEEK)
7. INSTALL GRASS PAVERS. (3 DAYS)
8. INSTALL SIDEWALKS AND SIGNAGE AND STABILIZE. (2 DAYS)
9. PROVIDE WEEKLY STREET SWEEPING AT ENTRANCE BASE PAVING.
10. FINALIZE STABILIZATION THROUGHOUT SITE. REMOVE ALL SEDIMENT CONTROL MEASURES WITH THE APPROVAL OF THE SEDIMENT CONTROL INSPECTOR AND STABILIZE ALL DISTURBED AREAS WITH PERMANENT SEEDING.

EROSION AND SEDIMENT CONTROL NOTE:

THE CONTRACTOR SHALL INSPECT AND PROVIDE THE NECESSARY MAINTENANCE ON ALL SEDIMENT CONTROL DEVICES AND PRACTICES ON A DAILY BASIS AND IMMEDIATELY AFTER EACH RAINFALL.

STANDARDS AND SPECIFICATIONS FOR STOCKPILE AREA (B-4-8)

DEFINITION

THE MOUND OR PILE OF SOIL PROTECTED BY APPROPRIATELY DESIGNED EROSION AND SEDIMENT CONTROL MEASURES.

PURPOSE

TO PROVIDE A DESIGNATED LOCATION FOR THE TEMPORARY STORAGE OF SOIL THAT CONTROLS THE POTENTIAL FOR EROSION, SEDIMENTATION, AND CHANGES TO DRAINAGE PATTERNS.

CONDITIONS WHERE PRACTICE APPLIES

STOCKPILE AREAS ARE UTILIZED WHEN IT IS NECESSARY TO SALVAGE AND STORE SOIL FOR LATER USE.

CRITERIA

1. THE STOCKPILE LOCATION AND ALL RELATED SEDIMENT CONTROL PRACTICES MUST BE CLEARLY INDICATED ON THE EROSION AND SEDIMENT CONTROL PLAN.
2. THE FOOTPRINT OF THE STOCKPILE MUST BE SIZED TO ACCOMMODATE THE ANTICIPATED VOLUME OF MATERIAL AND BASED ON A SIDE SLOPE RATIO NO STEEPER THA 2:1. BENCHING MUST BE PROVIDED IN ACCORDANCE WITH SECTION B-3 LAND GRADING.
3. RUNOFF FROM THE STOCKPILE AREA MUST DRAIN TO A SUITABLE SEDIMENT CONTROL PRACTICE.
4. ACCESS THE STOCKPILE AREA FROM THE UPGRADE SIDE.
5. CLEAR WATER RUNOFF INTO THE STOCKPILE AREA MUST BE MINIMIZED BY USE OF A DIVERSION DEVICE SUCH AS AN EARTH DIKE, TEMPORARY SWALE OR DIVERSION FENCE. PROVISIONS MUST BE MADE FOR DISCHARGING CONCENTRATED FLOW IN A NON-EROSIVE MANNER.
6. WHERE RUNOFF CONCENTRATES ALONG THE TOE OF THE STOCKPILE FILL, AN APPROPRIATE EROSION/SEDIMENT CONTROL PRACTICE MUST BE USED TO INTERCEPT THE DISCHARGE.
7. STOCKPILES MUST BE STABILIZED IN ACCORDANCE WITH THE 3/7 DAY STABILIZATION REQUIREMENT AS WELL AS STANDARD B-4-1 INCREMENTAL STABILIZATION AND STANDARD B-4-4 TEMPORARY STABILIZATION.
8. IF THE STOCKPILE IS LOCATED ON AN IMPERVIOUS SURFACE, A LINER SHOULD BE PROVIDED BELOW THE STOCKPILE TO FACILITATE CLEANUP. STOCKPILES CONTAINING CONTAMINATED MATERIAL MUST BE COVERED WITH IMPERMEABLE SHEETING.

MAINTENANCE

THE STOCKPILE AREA MUST CONTINUOUSLY MEET THE REQUIREMENTS FOR ADEQUATE VEGETATIVE ESTABLISHMENT IN ACCORDANCE WITH SECTION B-4 VEGETATIVE STABILIZATION. SIDE SLOPES MUST BE MAINTAINED AT NO STEEPER THAN A 2:1 RATIO. THE STOCKPILE AREA MUST BE KEPT FREE OF EROSION. IF THE VERTICAL HEIGHT OF A STOCKPILE EXCEEDS 20 FEET FOR 2:1 SLOPES, 30 FEET FOR 3:1 SLOPES, OR 40 FEET FOR 4:1 SLOPES, BENCHING MUST BE PROVIDED IN ACCORDANCE WITH SECTION B-3 LAND GRADING.

DUST CONTROL

DEFINITION

CONTROLLING DUST BLOWING AND MOVEMENT ON CONSTRUCTION SITES AND ROADS.

PURPOSE

TO PREVENT BLOWING AND MOVEMENT OF DUST FROM EXPOSED SOIL SURFACES, REDUCE ON AND OFF-SITE DAMAGE, HEALTH HAZARDS AND IMPROVE TRAFFIC SAFETY.

CONDITIONS WHERE PRACTICE APPLIES

THIS PRACTICE IS APPLICABLE TO AREAS SUBJECT TO DUST BLOWING AND MOVEMENT WHERE ON AND OFF-SITE DAMAGE IS LIKELY WITHOUT TREATMENT.

SPECIFICATIONS

TEMPORARY METHODS
1. MULCHES – SEE STANDARDS FOR VEGETATIVE STABILIZATION WITH MULCHES ONLY. MULCH SHOULD BE CRIMPED OR TACKED TO PREVENT BLOWING.
2. VEGETATIVE COVER – SEE STANDARDS FOR TEMPORARY VEGETATIVE COVER.
3. TILLAGE – TO ROUGHEN SURFACE AND BRING CLODS TO THE SURFACE. THIS IS AN EMERGENCY MEASURE WHICH SHOULD BE USED BEFORE SOIL BLOWING STARTS. BEGIN PLOWING ON WINDWARD SIDE OF THE SITE. CHISEL-TYPE PLOWS SPACED ABOUT 12" APART, SPRING-TOOTHED HARROWS AND SIMILAR PLOWS ARE EXAMPLES OF EQUIPMENT WHICH MAY PRODUCE THE DESIRED EFFECT.
4. IRRIGATION – THIS IS GENERALLY DONE AS AN EMERGENCY TREATMENT. SITE IS SPRINKLED WITH WATER UNTIL THE SURFACE IS MOIST. REPEAT AS NEEDED. AT NO TIME SHOULD THE SITE BE IRRIGATED TO THE POINT THAT RUNOFF BEGINS TO FLOW.
5. BARRIERS – SOLID BOARD FENCES SILT FENCES, SNOW FENCES, BURLAP FENCES, STRAW BALE DIKES AND SIMILAR MATERIAL CAN BE USED TO CONTROL AIR CURRENTS AND SOIL BLOWING. BARRIERS PLACED AT RIGHT ANGLES TO PREVAILING CURRENTS AT INTERVALS OF ABOUT 10 TIMES THEIR HEIGHT ARE EFFECTIVE IN CONTROLLING SOIL BLOWING.
6. CALCIUM CHLORIDE – APPLY AT RATES THAT WILL KEEP SURFACE MOIST. MAY NEED RETREATMENT.

PERMANENT METHODS
1. PERMENENT VEGETATION – SEE STANDARDS FOR PERMANENT VEGETATIVE COVER AND PERMANENT STABILIZATION WITH SOD. EXISTING TREES OR LARGE SHRUBS MAY AFFORD VALUABLE PROTECTION IF LEFT IN PLACE.
2. TOPSOILING – COVERING WITH LESS EROSIVE SOIL MATERIALS. SEE STANDARDS FOR TOPSOILING.
3. STONE – COVER SURFACE WITH CRUSHED STONE OR COARSE GRAVEL.

TEMPORARY SEEDING NOTES (B-4-4)

DEFINITION

TO STABILIZE DISTURBED SOILS WITH VEGETATION FOR UP TO 6 MONTHS.

PURPOSE

TO USE FAST GROWING VEGETATION THAT PROVIDES COVER ON DISTURBED SOILS.

CONDITIONS WHERE PRACTICE APPLIES

EXPOSED SOILS WHERE GROUND COVER IS NEEDED FOR A PERIOD OF 6 MONTHS OR LESS. FOR LONGER DURATION OF TIME, PERMANENT STABILIZATION PRACTICES ARE REQUIRED.

CRITERIA

1. SELECT ONE OR MORE OF THE SPECIES OR SEED MIXTURES LISTED IN TABLE B.1 FOR THE APPROPRIATE PLANT HARDINESS ZONE (FROM FIGURE B.3), AND ENTER THEM IN THE TEMPORARY SEEDING SUMMARY BELOW ALONG WITH APPLICATION RATES, SEEDING DATES AND SEEDING DEPTHS. IF THIS SUMMARY IS NOT PUT ON THE PLAN AND COMPLETED, THEN TABLE B.1 PLUS FERTILIZER AND LIME RATES MUST BE PUT ON THE PLAN.
2. FOR SITES HAVING SOIL TESTS PERFORMED, USE AND SHOW THE RECOMMENDED RATES BY THE TESTING AGENCY. SOIL TESTS ARE NOT REQUIRED FOR TEMPORARY SEEDING.
3. WHEN STABILIZATION IS REQUIRED OUTSIDE OF A SEEDING SEASON, APPLY SEED AND MULCH OR STRAW MULCH ALONE AS PRESCRIBED IN SECTION B-4-3.A.1.B AND MAINTAIN UNTIL THE NEXT SEEDING SEASON.

TEMPORARY SEEDING SUMMARY

HARDINESS ZONE (FROM FIGURE B.3): 6B SEED MIXTURE (FROM TABLE B.1):				FERTILIZER RATE (10-20-20)	LIME RATE
SPECIES	APPLICATION RATE (LB/AC)	SEEDING DATES	SEEDING DEPTHS		
BARLEY	96	3/1 - 5/15, 8/1 - 10/15	1"	436 LB/AC (10 LB/ 1000 SF)	2 TONS/AC (90 LB/ 1000 SF)
OATS	72		1"		
RYE	112		1"		

CONSTRUCTION CRITERIA:

THE FOLLOWING ITEMS SHOULD BE ADDRESSED DURING CONSTRUCTION OF PROJECTS WITH DRY WELLS:

EROSION AND SEDIMENT CONTROL:
FINAL GRADING FOR PROPOSED DRY WELLS SHOULD NOT TAKE PLACE UNTIL THE SURROUNDING SITE IS COMPLETELY STABILIZED. IF THIS CANNOT BE ACCOMPLISHED, RUNOFF FROM DISTURBED AREAS SHALL BE DIVERTED.

SOIL COMPACTION:
EXCAVATION SHOULD BE CONDUCTED IN DRY CONDITIONS WITH EQUIPMENT LOCATED OUTSIDE OF THE PRACTICE TO MINIMIZE BOTTOM AND SIDEWALL COMPACTION. CONSTRUCTION OF A DRY WELL SHALL BE PERFORMED WITH LIGHTWEIGHT, WIDE-TRACKED EQUIPMENT TO MINIMIZE DISTURBANCE AND COMPACTION. EXCAVATED MATERIALS SHALL BE PLACED IN A CONTAINED AREA.

UNDERGROUND CHAMBER:
A SUBSURFACE PREFABRICATED CHAMBER MAY BE USED.

DRY WELL BOTTOM:
THE BOTTOM SHALL BE AS LEVEL AS POSSIBLE TO MINIMIZE POOLED WATER IN SMALL AREAS THAT MAY REDUCE OVERALL INFILTRATION AND LONGEVITY.

FILTER CLOTH:
FILTER CLOTH SHALL NOT BE INSTALLED ON THE BOTTOM OF THE WELL. NON-WOVEN FILTER CLOTH SHOULD BE USED TO LINE THE TOP AND SIDES OF THE DRY WELL TO PREVENT THE PORE SPACE BETWEEN THE STONES FROM BEING BLOCKED BY THE SURROUNDING NATIVE MATERIAL.

GRAVEL MEDIA:
THE AGGREGATE SHALL BE COMPOSED OF AN 18 TO 48-INCH LAYER OF CLEAN WASHED, OPEN GRADED MATERIAL WITH 40% POROSITY (E.G., ASTM D448 4, 5, OR 6 STONE OR EQUAL).

HOWARD SOIL CONSERVATION DISTRICT (HSCD) STANDARD SEDIMENT CONTROL NOTES

1. A PRE-CONSTRUCTION MEETING MUST OCCUR WITH THE HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS, CONSTRUCTION INSPECTION DIVISION (CID), 410-313-1855 AFTER THE FUTURE LOD AND PROTECTED AREAS ARE MARKED CLEARLY IN THE FIELD. A MINIMUM OF 48 HOUR NOTICE TO CID MUST BE GIVEN AT THE FOLLOWING STAGES: A. PRIOR TO THE START OF EARTH DISTURBANCE,

B. UPON COMPLETION OF THE INSTALLATION OF PERIMETER EROSION AND SEDIMENT CONTROLS, BUT BEFORE PROCEEDING WITH ANY OTHER EARTH DISTURBANCE OR GRADING,

C. PRIOR TO THE START OF ANOTHER PHASE OF CONSTRUCTION OR OPENING OF ANOTHER GRADING UNIT, D. PRIOR TO THE REMOVAL OR MODIFICATION OF SEDIMENT CONTROL PRACTICES.

OTHER BUILDING OR GRADING INSPECTION APPROVALS MAY NOT BE AUTHORIZED UNTIL THIS INITIAL APPROVAL BY THE INSPECTION AGENCY IS MADE. OTHER RELATED STATE AND FEDERAL PERMITS SHALL BE REFERENCED, TO ENSURE COORDINATION AND TO AVOID CONFLICTS WITH THIS PLAN.

2. ALL VEGETATIVE AND STRUCTURAL PRACTICES ARE TO BE INSTALLED ACCORDING TO THE PROVISIONS OF THIS PLAN AND ARE TO BE IN CONFORMANCE WITH THE 2011 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL, AND REVISIONS THERETO.

3. 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.

4. 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 EXCESS OF 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).

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 CID.

6. SITE ANALYSIS:

TOTAL AREA OF SITE:	30.67 ACRES
AREA DISTURBED:	1.37 ACRES
AREA TO BE ROOFED OR PAVED:	0.31 ACRES
AREA TO BE VEGETATIVELY STABILIZED:	1.06 ACRES
TOTAL CUT	242 CU. YDS.
TOTAL FILL	393 CU. YDS.
OFFSITE WASTE/BORROW AREA LOCATION	SITE WITH AN ACTIVE GRADING PERMIT

7. ANY SEDIMENT CONTROL PRACTICE WHICH IS DISTURBED BY GRADING ACTIVITY FOR PLACEMENT OF UTILITIES MUST BE REPAIRED ON THE SAME DAY OF DISTURBANCE.

8. ADDITIONAL SEDIMENT CONTROL MUST BE PROVIDED, IF DEEMED NECESSARY BY THE CID. THE SITE AND A11 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).

9. 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.

10. ANY MAJOR CHANGES OR REVISIONS TO THE PLAN OR SEQUENCE OF CONSTRUCTION MUST BE REVIEWED AND APPROVED BY THE HSCD PRIOR TO PROCEEDING WITH CONSTRUCTION. MINOR REVISIONS MAY ALLOWED BY THE CID PER THE LIST OF HSCD-APPROVED FIELD CHANGES.

11. DISTURBANCE SHALL NOT OCCUR OUTSIDE THE L.O.D. A PROJECT IS TO BE SEQUENCED SO THAT GRADING ACTIVITIES BEGIN ON ONE GRADING UNIT (MAXIMUM ACREAGE OF 20 AC. PER GRADING UNIT) AT A TIME. WORK MAY PROCEED TO A SUBSEQUENT GRADING UNIT WHEN AT LEAST 50 PERCENT OF THE DISTURBED AREA IN THE PRECEDING GRADING UNIT HAS BEEN STABILIZED AND APPROVED BY THE CID. UNLESS OTHERWISE SPECIFIED AND APPROVED BY THE CID, NO MORE THAN 30 ACRES CUMULATIVELY MAY BE DISTURBED AT A GIVEN TIME.

12. WASH WATER FROM ANY EQUIPMENT, VEHICLES, WHEELS, PAVEMENT, AND OTHER SOURCES MUST BE TREATED IN A SEDIMENT BASIN OR OTHER APPROVED WASHOUT STRUCTURE.

13. TOPSOIL SHALL BE STOCKPILED AND PRESERVED ON-SITE FOR REDISTRIBUTION ONTO FINAL GRADE.

14. ALL SILT FENCE AND SUPER SILT FENCE SHALL BE PLACED ON-THE-CONTOUR, AND BE IMBRICATED AT 25' MINIMUM INTERVALS, WITH LOWER ENDS CURLED UPHILL BY 2' IN ELEVATION.

15. STREAM CHANNELS MUST NOT BE DISTURBED DURING THE FOLLOWING RESTRICTED TIME PERIODS (INCLUSIVE):

- USE I AND IP MARCH 1 – JUNE 15
- USE III AND IIIP OCTOBER 1 – APRIL 30
- USE IV MARCH 1 – MAY 31

16. 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.

STANDARD STABILIZATION NOTE

FOLLOWING INITIAL SOIL DISTURBANCE OR RE-DISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION MUST BE COMPLETED WITHIN:

A.) THREE (3) CALENDAR DAYS AS TO THE SURFACE OF ALL PERIMETER DIKES, SWALES, DITCHES, PERIMETER SLOPES AND ALL SLOPES STEEPER THAN 3 HORIZONTAL TO 1 VERTICAL (3:1); AND

B.) SEVEN (7) CALENDAR DAYS AS TO ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE NOT UNDER ACTIVE GRADING.

NOTE:
THE CONTRACTOR IS RESPONSIBLE FOR PUMPING ALL STANDING WATER THROUGH A FILTERING DEVICE TO A CLEAR WATER OUTFALL WITHIN 24 HOURS FOLLOWING ANY RAINFALL EVENT.

FISHER, COLLINS & CARTER, INC.
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CENTENNIAL SQUARE OFFICE PARK – 10272 BALTIMORE NATIONAL PIKE
ELLICOTT CITY, MARYLAND 21042
(410) 461 – 2855

ENGINEER'S CERTIFICATE

"I HEREBY CERTIFY THAT THIS PLAN HAS BEEN DESIGNED IN ACCORDANCE WITH THE CURRENT MARYLAND EROSION AND SEDIMENT CONTROL LAWS, REGULATIONS, AND STANDARDS REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE, AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT."

SIGNATURE OF ENGINEER — DATE: JAN 18, 2024

DEVELOPER'S CERTIFICATE

"I/WE HEREBY CERTIFY THAT ANY CLEARING, GRADING, CONSTRUCTION, OR DEVELOPMENT WILL BE DONE PURSUANT TO THIS APPROVED EROSION AND SEDIMENT CONTROL PLAN, INCLUDING INSPECTING AND MAINTAINING CONTROLS, AND THAT THE RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF TRAINING AT A MARYLAND DEPARTMENT OF THE ENVIRONMENT (MDE) APPROVED TRAINING PROGRAM FOR THE CONTROL ON EROSION AND SEDIMENT PRIOR TO BEGINNING THE PROJECT. I CERTIFY RIGHT OF ENTRY FOR PERIODIC ON-SITE EVALUATION BY HOWARD COUNTY, THE HOWARD SOIL CONSERVATION DISTRICT AND/OR MDE."

SIGNATURE OF DEVELOPER — DATE: Jan 19 2024

"PROFESSIONAL CERTIFICATION. I HEREBY CERTIFY 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. 27020, EXPIRATION DATE: 01/25/26."

PAUL GERARD CAVANAUGH — DATE: JAN 18, 2024

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: 02/20/24

DATE	DESCRIPTION
	REVISION BLOCK

APPROVED: DEPARTMENT OF PLANNING AND ZONING

Director – Department of Planning and Zoning — Date: 2/6/24

Chief, Division of Land Development — Date: 2/5/24

Chief, Development Engineering Division — Date: 2/2/24

OWNER/DEVELOPER

PREPARED FOR
HOWARD COUNTY PUBLIC SCHOOL SYSTEM
9020 MENDENHALL COURT
SUITE 'C'
COLUMBIA, MARYLAND 21045
Attention: DANIEL LUBELEY
410-313-8203

STATE OF MARYLAND — PAUL GERARD CAVANAUGH — No. 27020 — PROFESSIONAL ENGINEER

ADDRESS CHART

PARCEL NO.	STREET ADDRESS
69	OLD CEDAR LANE SPECIAL ED CENTER COLUMBIA, MARYLAND 21044

PROJECT			SECTION/AREA		PARCEL
OLD CEDAR LANE SPECIAL ED CENTER			6/2		69
PLAT NOS.	BLOCK NO.	ZONE	TAX MAP	ELEC. DIST.	CENSUS TR.
-	17,23	NT	29	FIFTH	605502

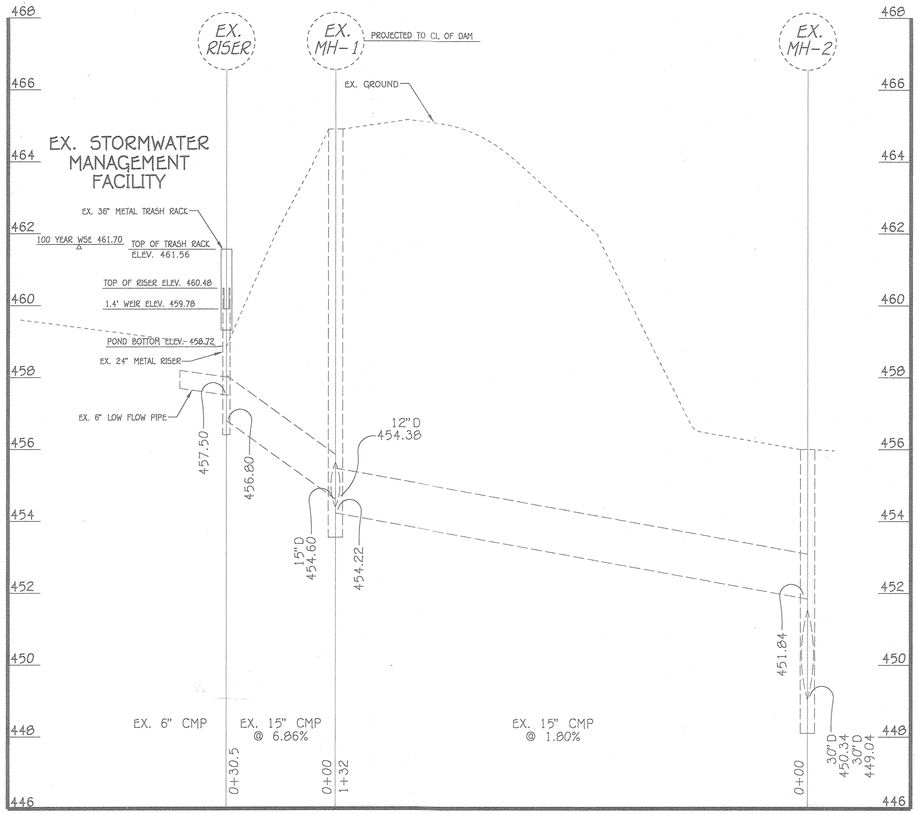
SEDIMENT CONTROL NOTES

OLD CEDAR LANE SPECIAL EDUCATION CENTER

VILLAGE OF HARPER'S CHOICE
SECTION 6 AREA 2

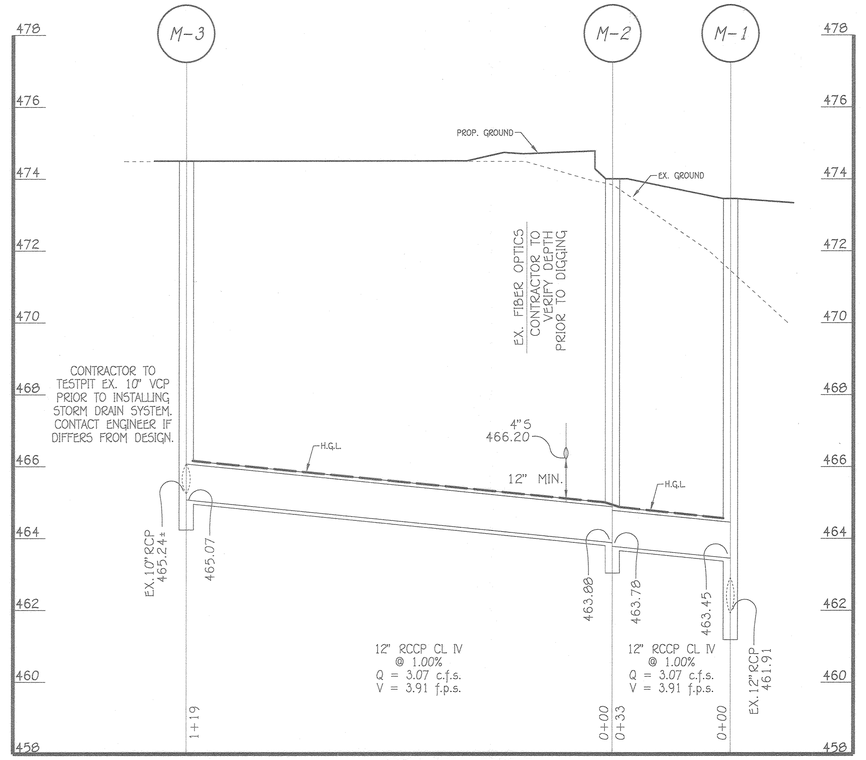
ZONED: NEW TOWN
TAX MAP No.: 29 GRID No.: 17, 23 PARCEL No.: 69
FIFTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND
SCALE: AS SHOWN DATE: JANUARY, 2024
SHEET 19 OF 21

SDP-79-125c



PROFILE THRU EXISTING EMBANKMENT

SCALE: HORIZ. : 1" = 20'
VERT. : 1" = 2'



STORM DRAIN PROFILE

SCALE: HORIZ. : 1" = 20'
VERT. : 1" = 2'

PIPE SCHEDULE

SIZE	CLASS	LENGTH
4"	PVC	60 L.F.
12"	RCCP	152 L.F.

STRUCTURE SCHEDULE

STRUCTURE NO.	OWNERSHIP AND MAINTENANCE	TOP ELEVATION	INV.IN	INV.OUT	COORDINATES	INTERIOR WIDTH	TYPE	REMARKS
M-1	PRIVATE	473.45	463.45 (12")	461.91 (12")	N 567,417.94 E 1,344,696.31	4.0'	STD MANHOLE	G-5.12
M-2	PRIVATE	474.00	463.88 (12")	463.78 (12")	N 567,370.83 E 1,344,663.38	4.0'	STD MANHOLE	G-5.12
M-3	PRIVATE	474.50	465.24 (10")	465.07 (12")	N 567,537.13 E 1,344,663.28	4.0'	STD MANHOLE	G-5.12

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ELLICOTT CITY, MARYLAND 21042
(410) 461 - 2855

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PAUL GERARD CAVANAUGH — DATE: Jan 18, 2024

DATE	DESCRIPTION
	REVISION BLOCK

APPROVED: DEPARTMENT OF PLANNING AND ZONING

Director - Department of Planning and Zoning — Date: 2/16/24

Chief, Division of Land Development — Date: 2/5/24

Chief, Development Engineering Division — Date: 2/2/24

OWNER/DEVELOPER

PREPARED FOR
HOWARD COUNTY PUBLIC SCHOOL SYSTEM
9020 MENDENHALL COURT
SUITE "C"
COLUMBIA, MARYLAND 21045
Attention: DANIEL LUBELEY
410-313-0203

STATE OF MARYLAND — PAUL GERARD CAVANAUGH — 27020 — PROFESSIONAL ENGINEER

ADDRESS CHART

PARCEL NO.	STREET ADDRESS
69	OLD CEDAR LANE SPECIAL ED CENTER
	COLUMBIA, MARYLAND 21044

PROJECT				SECTION/AREA	PARCEL
OLD CEDAR LANE SPECIAL ED CENTER				6/2	69
PLAT NOS.	BLOCK NO.	ZONE	TAX MAP	ELEC. DIST.	CENSUS TR.
-	17,23	NT	29	FIFTH	605502

PROFILES

OLD CEDAR LANE SPECIAL EDUCATION CENTER

VILLAGE OF HARPER'S CHOICE
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FIFTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND
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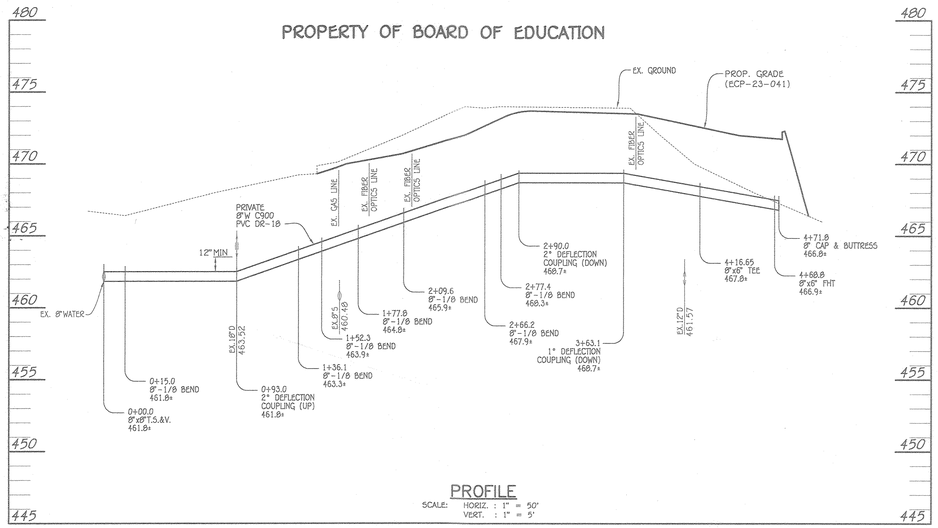
SHEET 20 OF 21

SDP-79-125c



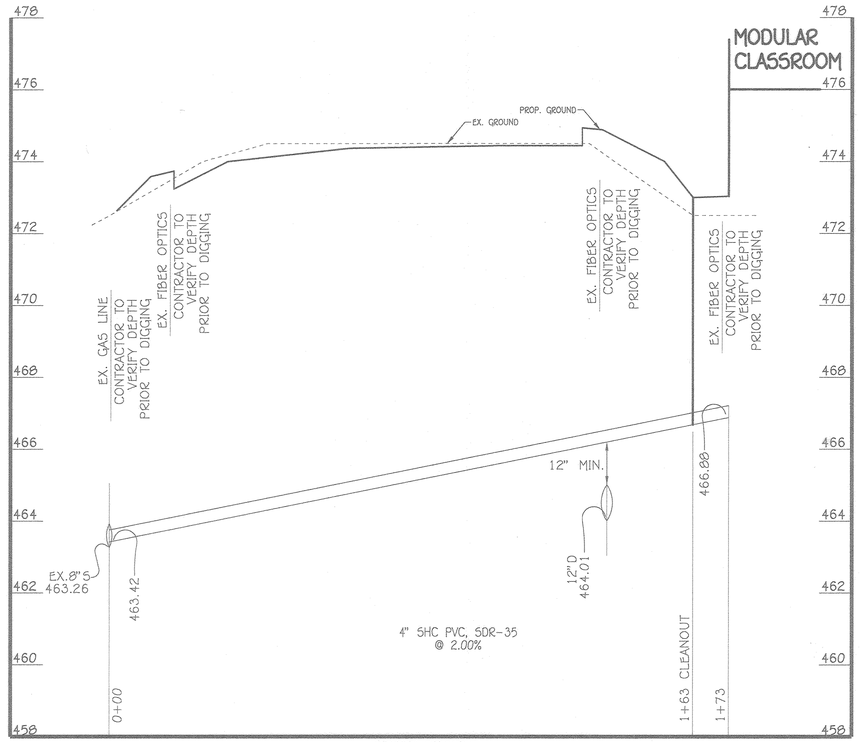
PROFILE

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

PRIVATE 8" WATER MAIN: PORTABLE CLASSROOM

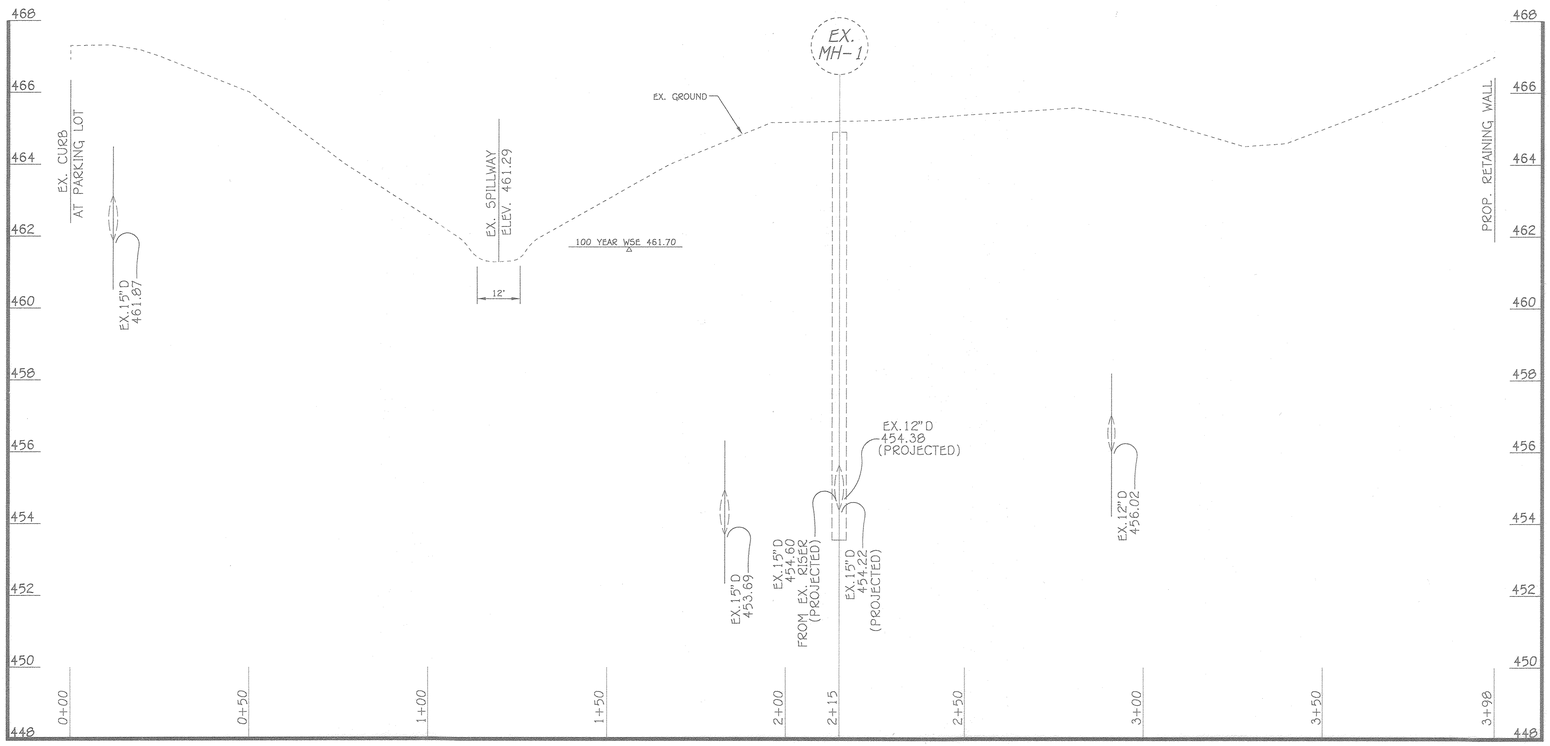
PRIVATE WATER MAIN TABULATION CHART

W.M. STA.	APPURTENANCE	NORTHING	EASTING
	8" WATER MAIN		
0+00.0	8"x8" T, S & V	567,175.74	1,344,489.30
0+15.0	8"-1/8 BEND	567,186.36	1,344,499.91
0+93.0	2" DEFLECTION COUPLING	567,264.35	1,344,499.91
1+36.1	8"-1/8 BEND	567,307.44	1,344,499.91
1+52.3	8"-1/8 BEND	567,318.88	1,344,511.34
1+77.8	8"-1/8 BEND	567,318.88	1,344,536.86
2+09.8	8"-1/8 BEND	567,341.40	1,344,559.38
2+66.2	8"-1/8 BEND	567,397.98	1,344,559.38
2+77.4	8"-1/8 BEND	567,405.92	1,344,567.32
2+90.0	2" DEFLECTION COUPLING	567,405.92	1,344,579.87
3+63.1	1" DEFLECTION COUPLING	567,405.93	1,344,652.97
4+16.65	8"x6" TEE	567,405.94	1,344,706.52
4+68.8	8"x6" FHT	567,405.95	1,344,758.70
4+71.8	8" CAP & BUTTRESS	567,405.95	1,344,761.70



SEWER PROFILE

SCALE: HORIZ. : 1" = 20'
VERT. : 1" = 2'



PROFILE ALONG CL EXISTING EMBANKMENT

SCALE: HORIZ. : 1" = 20'
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PAUL GERARD CAVANAUGH — DATE: 1/18/2024

DATE	DESCRIPTION
	REVISION BLOCK

APPROVED: DEPARTMENT OF PLANNING AND ZONING

Director, Department of Planning and Zoning — 2/16/24 Date

Chief, Division of Land Development — 2/5/24 Date

Chief, Development Engineering Division — 2/5/24 Date

OWNER/DEVELOPER

PREPARED FOR
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SDP-79-125c

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