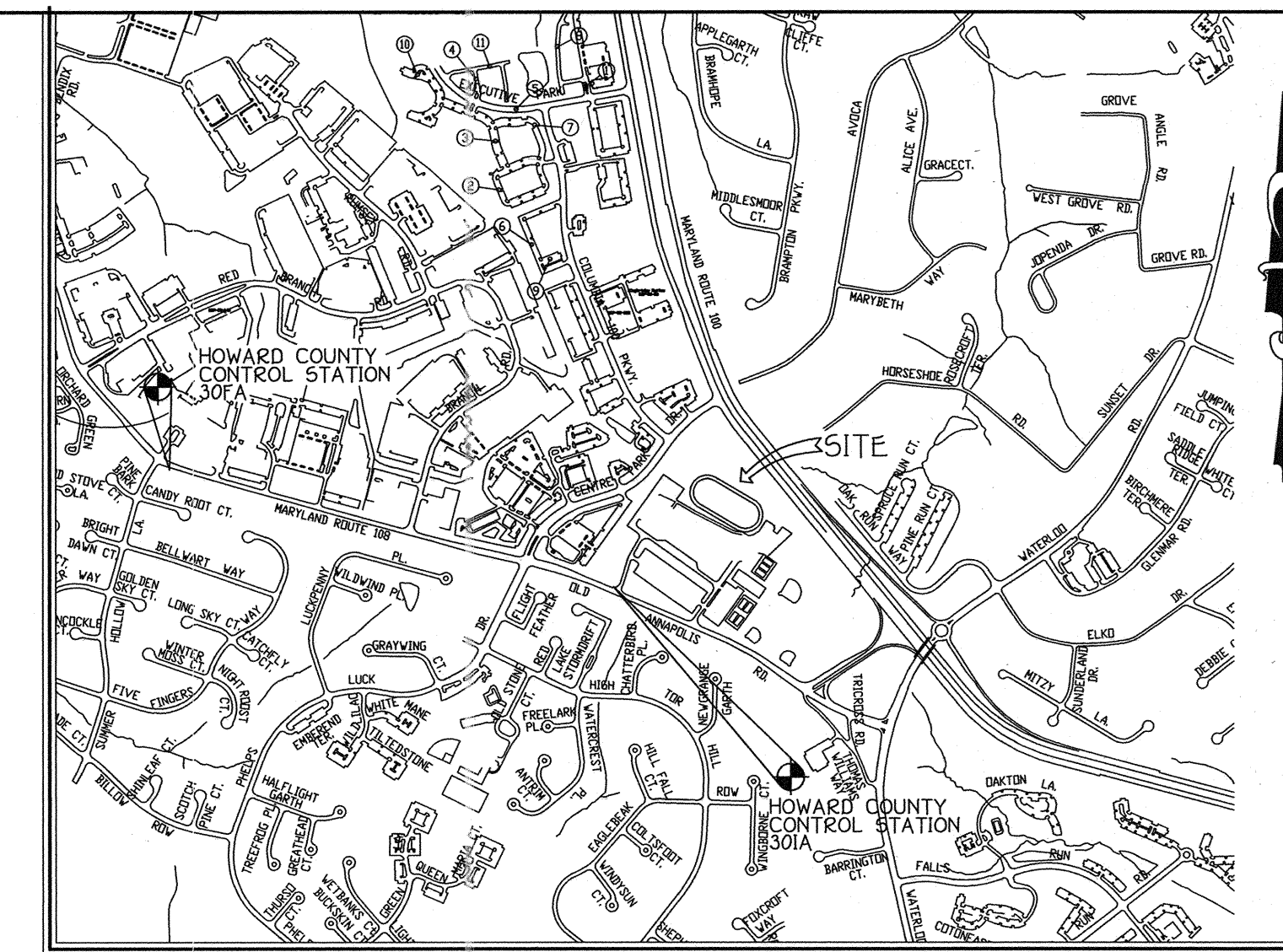


SHEET INDEX	
SHEET NUMBER	DESCRIPTION
1	TITLE SHEET
2	DEMOLITION PLAN
3	SITE DEVELOPMENT PLAN
4	SEDIMENT AND EROSION CONTROL PLAN
5	DETAIL SHEET
6	DETAIL SHEET
7	HANDICAP PARKING DETAIL
8	DETAIL SHEET
9	SOIL BORING LOGS AND WQ, CHANNEL PROFILE AND CROSS SECTION
10	STORM DRAIN DRAINAGE AREA MAP
11	STORM DRAIN PROFILES AND WATER PROFILE
12	SEDIMENT EROSION CONTROL NOTES AND DETAILS
13	LANDSCAPE PLAN

SITE DEVELOPMENT PLAN HOWARD HIGH SCHOOL

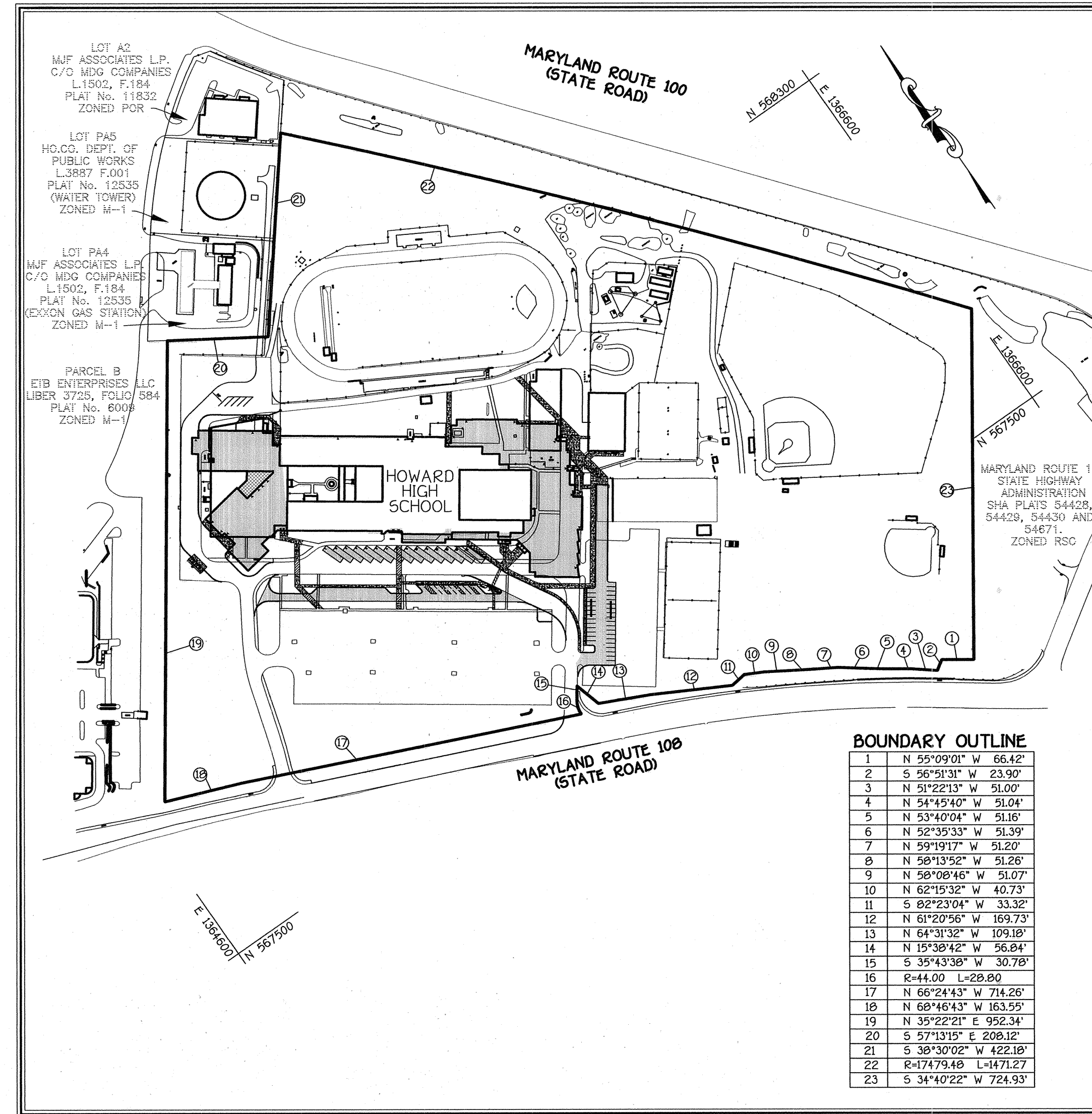
TAX MAP No.: 30 PARCEL No.: 31
SECOND ELECTION DISTRICT HOWARD COUNTY, MARYLAND



VICINITY MAP
SCALE: 1" = 1200'

- I. General Site Data:**
 A. Present Zoning: R-20
 B. Proposed use of site or structure: Institutional (Public School)
 C. Public water and sewer to be utilized.
 2. Area Tabulations:
 A. Total project area: 38,409 Ac.*
 B. Area of this plan submission: 7,757 Ac.* is the limit of submission and grading disturbance for the construction of the high school addition and associated parking.
 C. Impervious Coverage:
 Existing high school: 107,643 sq. ft., ROTC Building: 8412 sq. ft.
 Proposed additions: 113,648 sq. ft.
 3. Parking Space Data:
 A. Number of parking space required by zoning regulations: N/A
 B. Total number of parking spaces provided on site: 335 (including handicap parking) per the Public School Systems Parking Requirements
 C. Number of Handicapped parking spaces required: 8
 D. Number of Handicapped parking spaces provided: 9

BUILDING COVERAGE
 Existing High School, ROTC: 309,703 Sq. Ft. = 7.11 Ac.*
 Building and Additions:
Basement Level Area = 3,900 sq. ft.
 Percentage of Coverage: 7.11 Ac.* = 18.3%
 38,409 Ac.



PLAN
SCALE: 1" = 200'

Description	Symbol
Existing Contour	---322---
New Contour	---322---
Existing Curb Line	---32.25---
New Curb Line & Flow Line Elev.	---32.56---
Existing water Line	---
New water Line	---
Existing Fire Hydrant	Ex. MH 7489
Existing Sewer Line	Ex. 6" S
New Sewer Line	6" S
Existing Storm Drain Line	Ex. 12" S.D.
New Storm Drain Line	15" HDPE
New Sidewalk	---
Existing Tree & Treeline	---
New Treeline	---
Existing Street Light to remain	---
New Pole Light. See Electrical Plans	---
Number of Parking Spaces	13
Fence Line	X-X-X-X
Limit of Grading Disturbance (L.O.D.)	---
Denotes Existing Paving and Existing Walk to be Removed	---

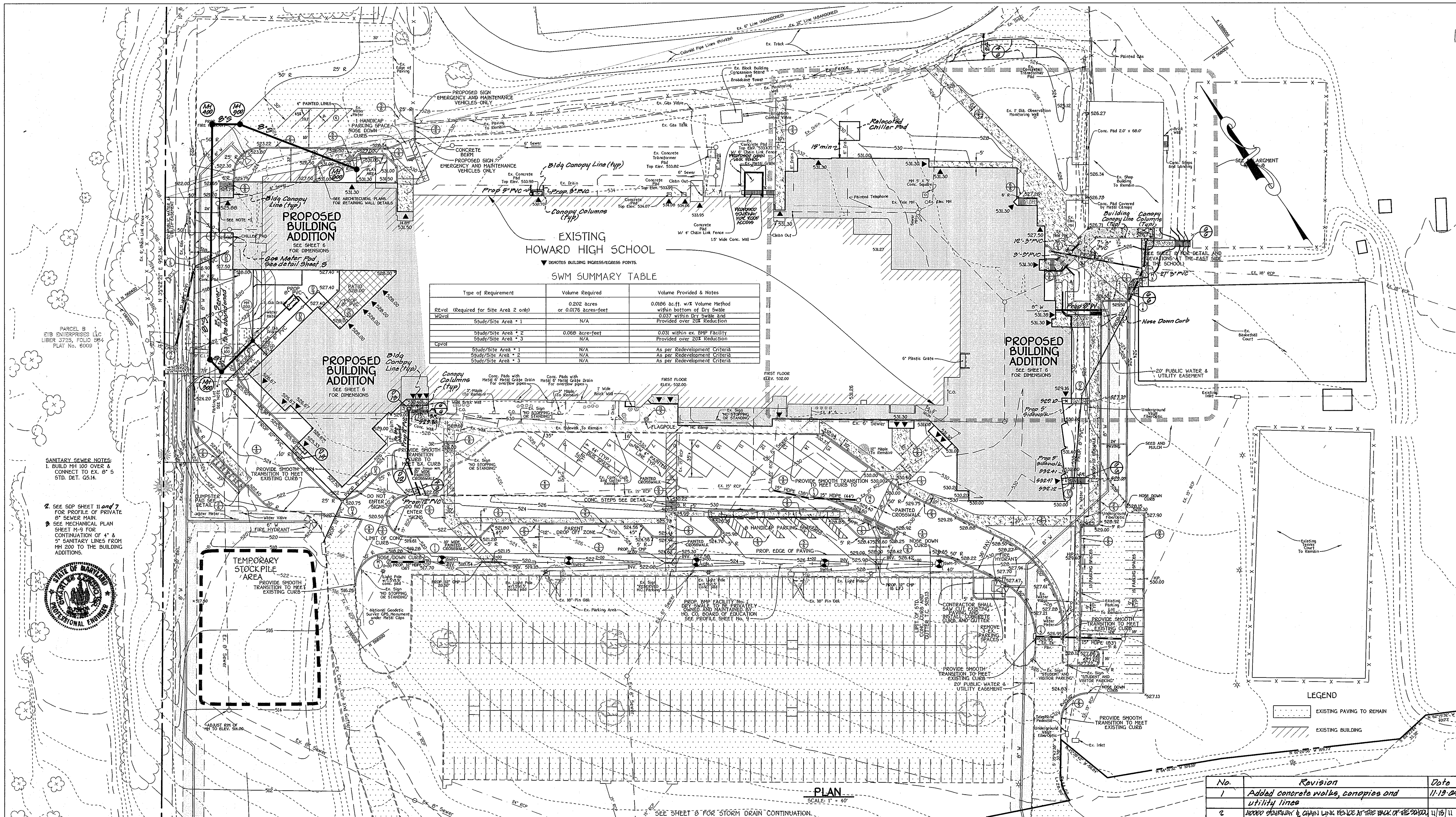
General Notes

- All construction shall be accordance with the latest standards and specifications of Howard County plus MSHA standards and specifications if applicable.
- The contractor shall notify the Bureau of Engineering/Construction Inspection Division at 410-313-1890 at least five working days prior to start of work.
- The contractor shall notify Miss Utility at 1-800-257-7777 at least 48 hours prior to any digging and excavation work.
- Project Background:
Location: Tax Map 30, Grid 18, Parcel 31
Zoning: This project is zoned R-20 per the 10/18/93 comprehensive zoning plan.
Election District: SECON
Site Area: 48.904 Ac.*
- Traffic control devices, markings and signing shall be in accordance with the latest edition of the manual on Uniform Traffic Control Devices (MUTCD). All street and regulatory signs shall be in place prior to placement of any asphalt.
- 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.
- Existing topography and features were derived from survey by Fisher, Collins and Carter Inc. and Hartford Aerial Surveys Inc. Dated July 6, 2001.
- Coordinates are based on NAD 83 Maryland Coordinates System as projected by Howard County Geodetic Control Stations. 30A N 568621.336 30A N 567750.955
E 1361563.983 E 1364242.701
ELEV. 441.62 ELEV. 499.82
- Public water and sewer is to be utilized for this project.
- Stormwater management is provided in accordance with the re-development requirements of the Howard County Design Manual Vol. I. Water quality for this site is provided by a combination of a newly design dry swale in conjunction with the existing underground swim facility constructed under SDP-76-58. Both facilities will be Privately Owned and Maintained by The Howard County School System.
- All on-site storm drains under this site development plan are private.
- The existing utilities shown hereon were derived from available public records. The contractor must dig test pits by hand at all utility crossings and connection points to verify the exact location and elevation.
- All proposed ramps shall be in accordance with current A.D.A. Standards. 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.
- All driveways and parking to be owned and maintained by the Howard County Public School System.
- Any damage to County and or State owned right-of-way to be corrected at the contractor's expense.
- Trench bedding for storm drains structures shall be in accordance with Howard County Standard C2.01 Class C bedding unless otherwise noted.
- Gutter pan of curbs shall be pitched to conform to the adjacent drainage patterns of the adjoining paving for vehicular use. See detail (E).
- All curb fillets are 5' radius unless noted otherwise. Curb spot elevations along curb line are at the flow line unless noted otherwise.
- For details of building profile, parking, road section, handicap, curb and gutter see sheets 5 and 6.
- There are no known grave sites or cemeteries on this site.
- Other topics related to this site:
Soils Analysis prepared by Penniman and Browne Inc. Dated MAY 13, 2003.
- All outside lighting shall comply with Zoning Regulations Section 134 which requires lights to be installed to direct/eject light downwards and inwards on the site and away from all public streets and residential areas.
- The existing water mains are being replaced with public water mains Contract 44-4147-D. The building shall be equipped with an automatic fire prevention sprinkler system.
- There are no wetlands within the limits of disturbance per a signed and sealed wetlands certification prepared by Fisher, Collins, and Carter Inc. dated March, 2003.
- Previous DPZ file numbers: VP81-66, VP86-03, SDP75-27, SDP76-58, SDP79-30, BA93-09, WP93-106, WP95-93, WP88-150, WP96-100, WP01-30, WP03-70, WP03-90.
- This project is exempt from the requirements of Section 16.1200 of the Howard County Code for Forest Conservation because this site was developed per a Site Development Plan which received approval prior to 12/31/92. [Subdivision Section 16.1202(b)(1)(iii)]
- This plan is subject to the Fifth Edition of the Subdivision Regulations.



No.	Revision	Date
1	Added concrete walks, canopies and utility lines	11-19-04

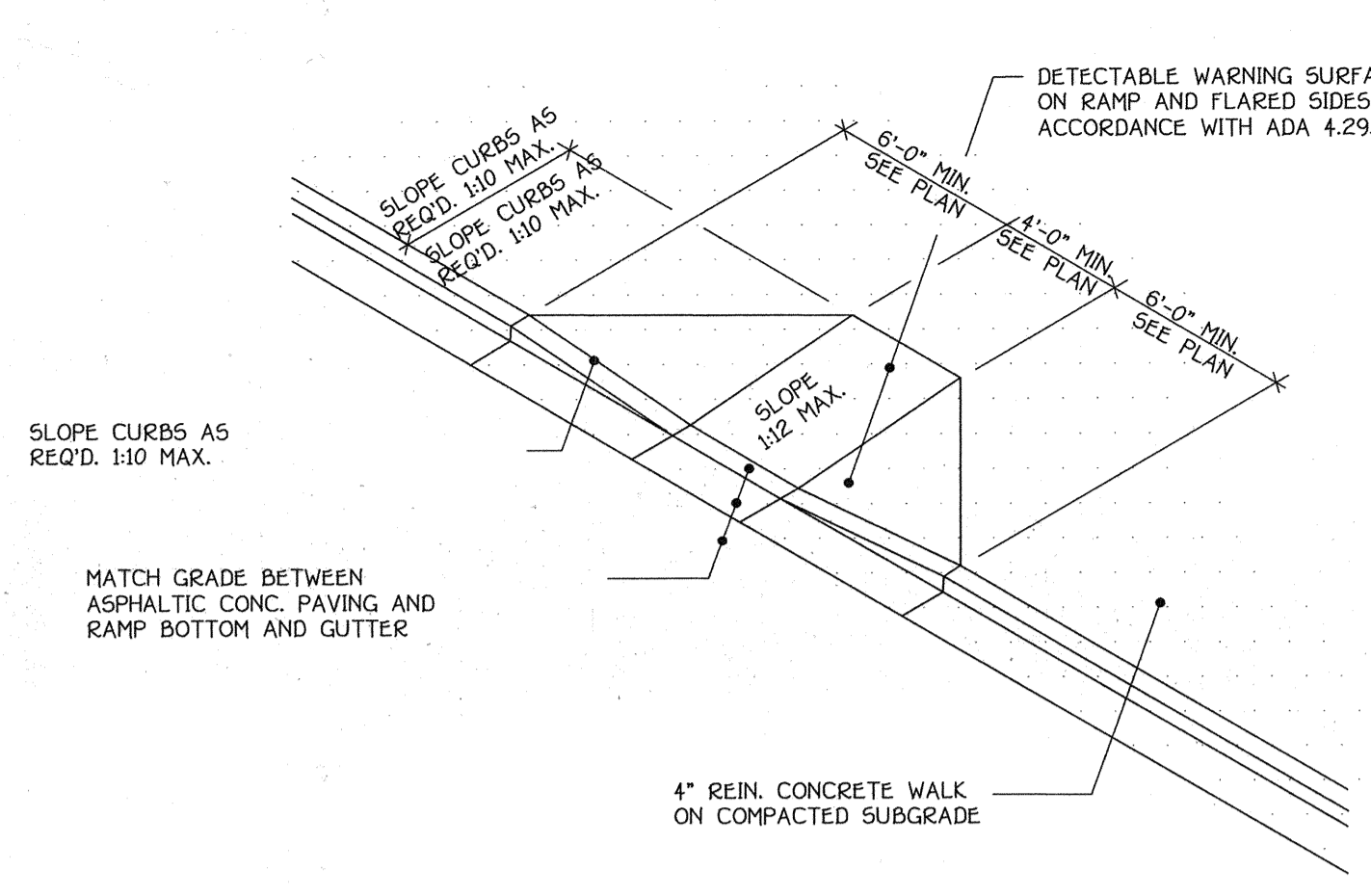
<p>ENGINEER'S CERTIFICATE I hereby certify that this plan for erosion and sediment control represents a practical and workable plan based on my personal knowledge of the site conditions and that it was prepared in accordance with the requirements of the Howard Soil Conservation District. <i>[Signature]</i> Signature of Engineer 10/23/03 Date</p>	<p>DEVELOPER'S CERTIFICATE I/We certify that all development and construction will be done according to this plan of development and plan for erosion and sediment control and that all responsible personnel involved in the construction project will have a certificate of attendance at a Department of Natural Resources approved training program for the control of sediment and erosion before beginning the project. I also authorize periodic on-site inspection by the Howard Soil Conservation District or their authorized agents, as are deemed necessary. <i>[Signature]</i> Dr. William Brown, Director School Planning and Construction 10-21-03 Date</p>	<p>APPROVED: DEPARTMENT OF PLANNING AND ZONING <i>[Signature]</i> Director - Department of Planning and Zoning 11/14/03 Date</p>	<p>PREPARED FOR: HOWARD COUNTY PUBLIC SCHOOL SYSTEM 10910 Maryland Route 108 Ellicott City, Maryland 21042 Attention Cathleen Young</p>	<p>Address Chart Parcel Number: P. 31 Street Address: 8700 OLD ANNAPOLIS ROAD</p>	<p style="text-align: center;">TITLE SHEET</p> <p style="text-align: center;">HOWARD HIGH SCHOOL BUILDING ADDITIONS AND PARKING LOT ADDITION</p> <p>TAX MAP No.: 30 PARCEL No.: 31 SECOND ELECTION DISTRICT HOWARD COUNTY, MARYLAND SCALE: A5 SHOWN DATE: OCTOBER, 2003</p>
<p>Reviewed For Howard County Soil Conservation District and Meets Technical Requirements. <i>[Signature]</i> U.S.D.A. - Natural Resources Conservation Service Date</p>	<p>Approved: This Development is Approved For Erosion and Sediment Control by the Howard Soil Conservation District. <i>[Signature]</i> District Howard Soil Conservation Dist. Date</p>	<p><i>[Signature]</i> Chief, Division of Land Development 11/6/03 Date</p>	<p>SMOLEN, EMR AND ASSOCIATES, ARCHITECTS 11820 PARKLAWN DRIVE SUITE 404 ROCKVILLE, MARYLAND 20852 (301) 770-0177</p>	<p>DEED RECORDED REFERENCE 220/239 5276/722</p>	<p>PROJECT: HOWARD HIGH SCHOOL DEED REF. 220/239 5276/722 BLOCK NO. 18 ZONE R-20 TAX/MAP 30 ELEC. DIST. SECOND CENSUS TR. 6023.02</p> <p>WATER CODE G07 SEWER CODE 5657400</p>



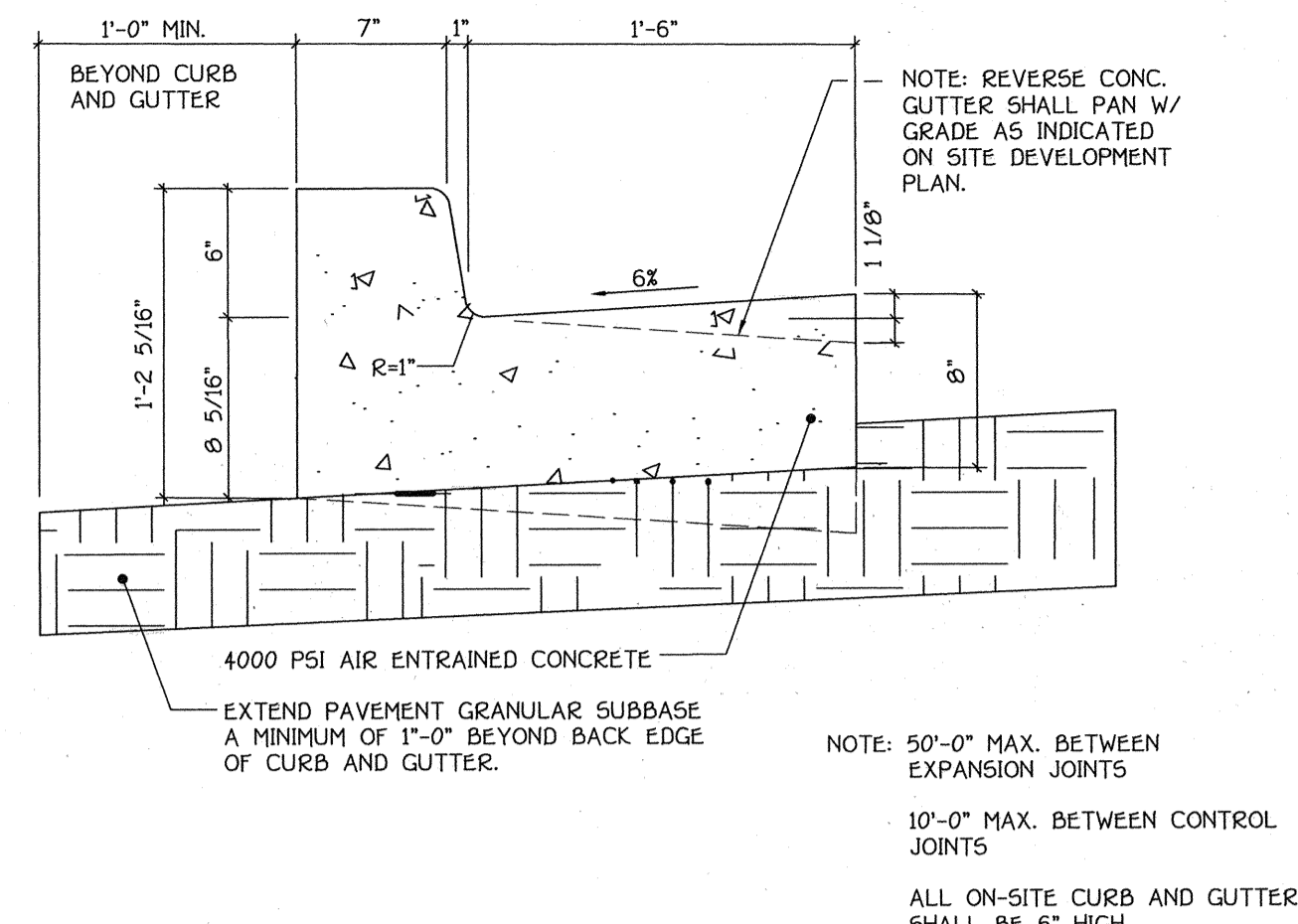
PLAN
 SCALE: 1" = 40'

ENGINEER'S CERTIFICATE I Herby Certify That This Plan For Erosion And Sediment Control Represents A Practical And Workable Plan Based On My Personal Knowledge Of The Site Condition And That It Was Prepared In Accordance With The Requirements Of The Howard Soil Conservation District. Signature Of Engineer 10/23/03 Date		DEVELOPER'S CERTIFICATE I/We Certify That All Development And Construction Will Be Done According To This Plan Of Development And Plan For Erosion And Sediment Control And That All Responsible Personnel Involved In The Construction Project Will Have A Certificate Of Attendance At A Department Of Natural Resources Approved Training Program For The Control Of Sediment And Erosion Before Beginning The Project. I Also Authorize Periodic On-Site Inspection By The Howard Soil Conservation District Or Their Authorized Agents, As Are Deemed Necessary. Dr. William Brown, Director School Planning and Construction 10-21-03 Date Approved: This Development Is Approved For Erosion And Sediment Control By The Howard Soil Conservation District. Director Howard Soil Conservation Dist. 10-24-03 Date		APPROVED: DEPARTMENT OF PLANNING AND ZONING Director - Department of Planning and Zoning 11/16/03 Date Chief, Division of Land Development 11/16/03 Date Chief, Development Engineering Division 11/14/03 Date		PREPARED FOR: HOWARD COUNTY PUBLIC SCHOOL SYSTEM 10910 Maryland Route 100 Ellicott City, Maryland 21042 Attention Cathleen Young PREPARED BY: SMOLEN, EHR AND ASSOCIATES, ARCHITECTS 11820 PARKLAWN DRIVE SUITE 404 ROCKVILLE, MARYLAND 20852 (301) 770-0177		Address Chart Parcel Number: P. 31 Street Address: 8700 OLD ANNAPOLIS ROAD DEED RECORDATION REFERENCE: 220/239 5276/722 SECTION/AREA: N/A PARCEL: 31 PROJECT: HOWARD HIGH SCHOOL DEED REF.: 220/239 5276/722 BLOCK NO.: 18 ZONE: R-20 TAX/MAP: 30 ELEC. DIST.: SECOND CENSUS TR.: 6023.02 WATER CODE: G07 SEWER CODE: 5657400		SITE DEVELOPMENT PLAN HOWARD HIGH SCHOOL BUILDING ADDITIONS AND PARKING LOT ADDITION TAX MAP No.: 30 SECOND ELECTION DISTRICT SCALE: A5 SHOWN PARCEL No.: 31 HOWARD COUNTY, MARYLAND DATE: OCTOBER, 2003 SHEET 3 OF 13	
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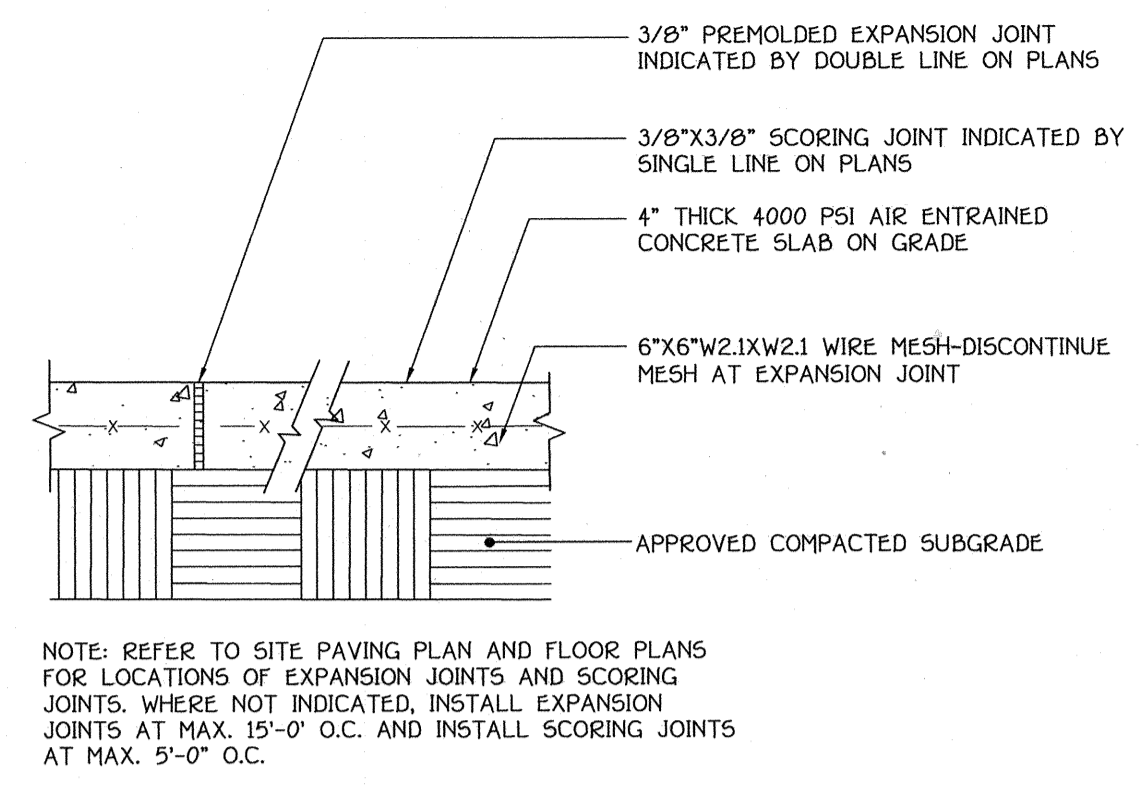
FISHER, COLLINS & CARTER, INC.
 CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
 CENTENNIAL SQUARE OFFICE PARK - 10272 BALTIMORE NATIONAL PIKE
 ELICOTT CITY, MARYLAND 21042
 4100 461 - 2000



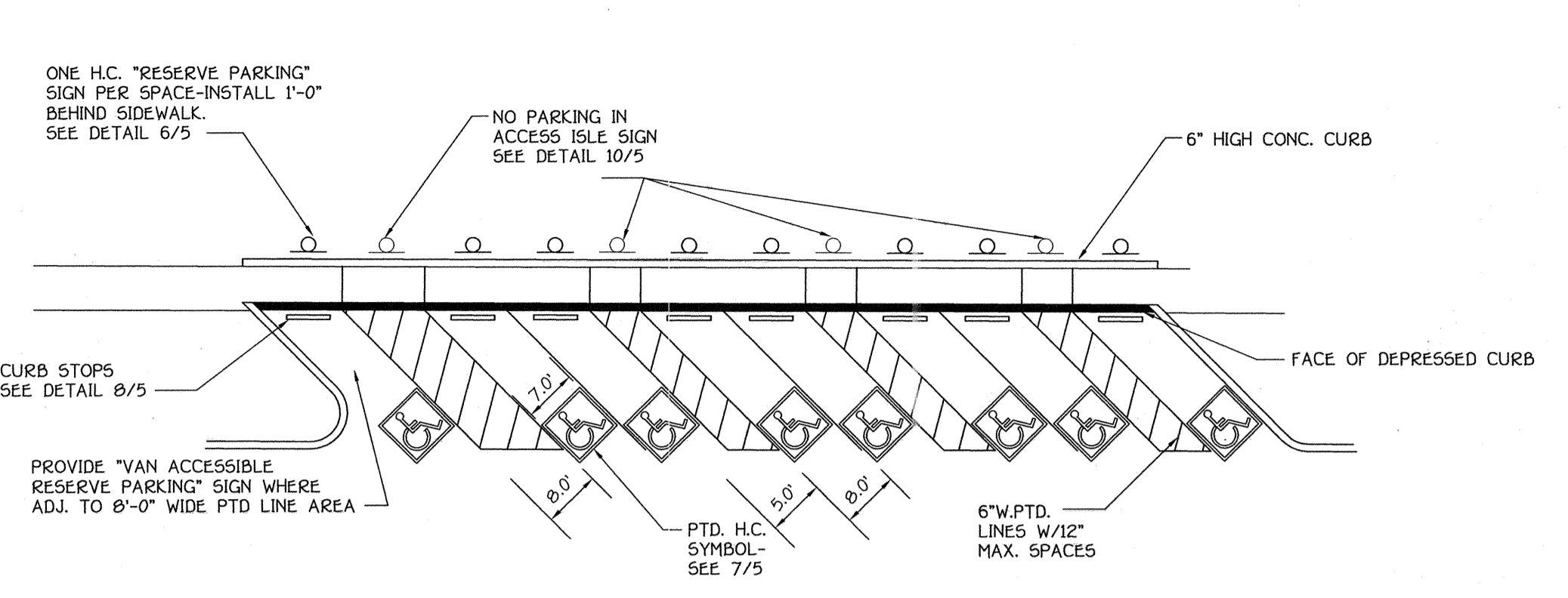
TYPE A CURB RAMP DETAIL (1/5)
NO SCALE



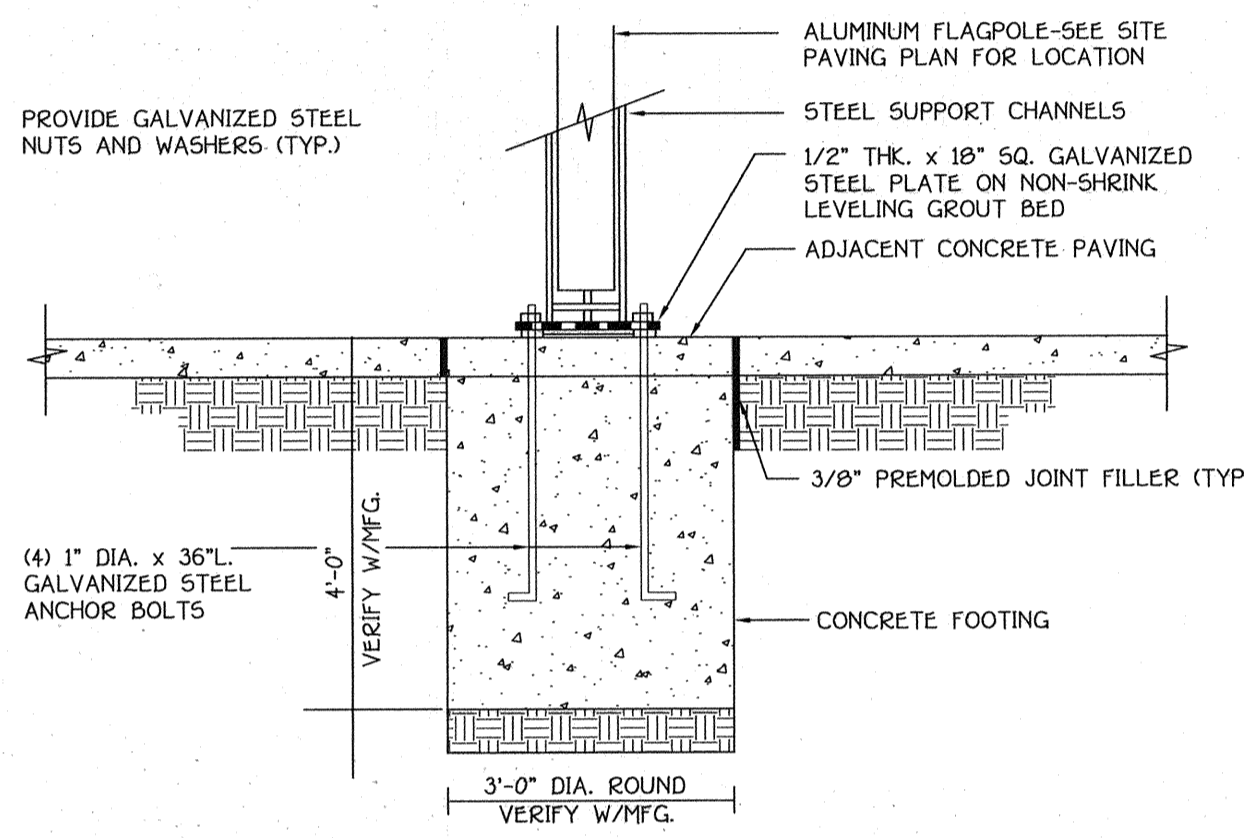
CONCRETE CURB AND GUTTER DETAIL (2/5)
NO SCALE



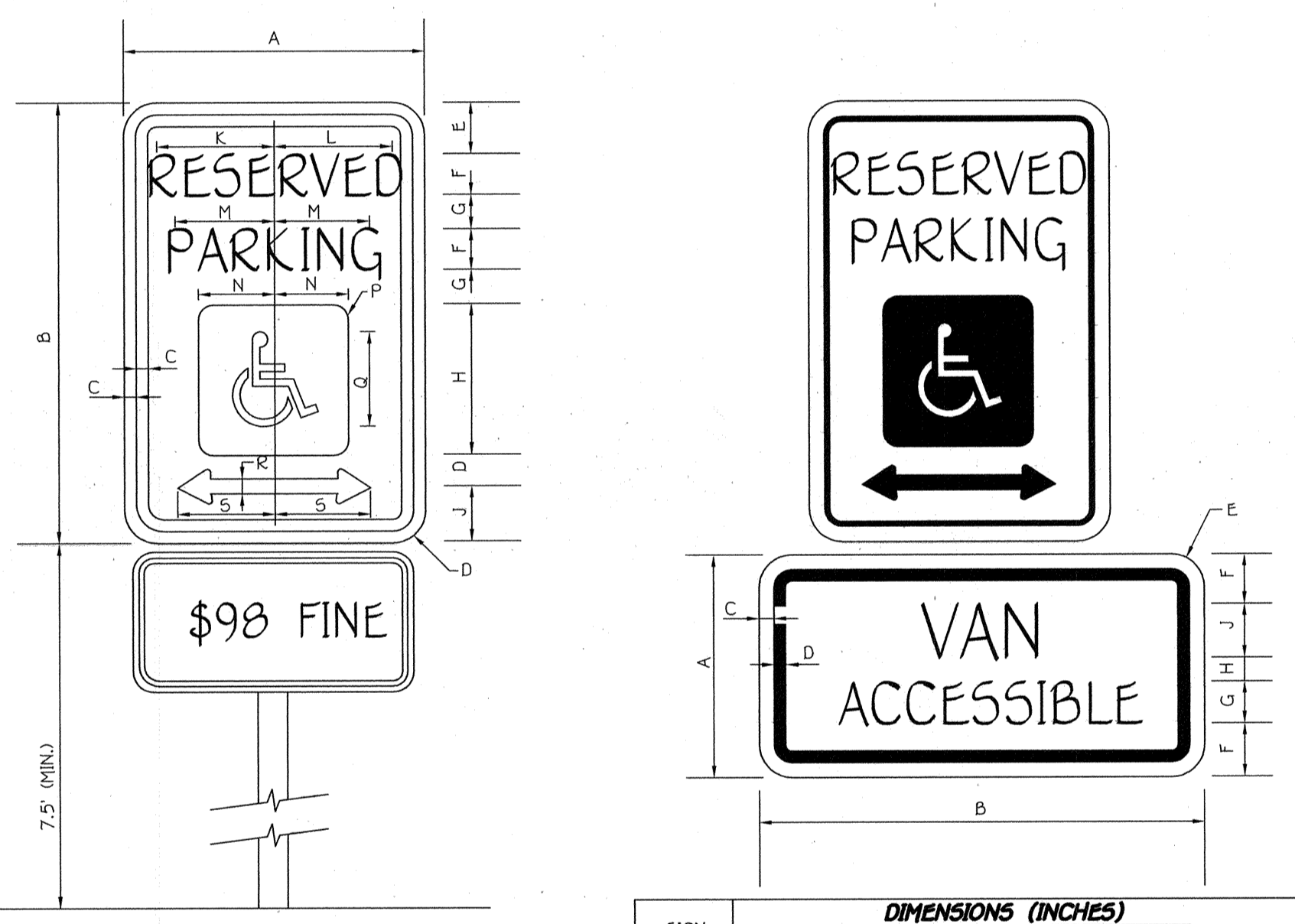
CONCRETE WALK DETAIL (3/5)
NO SCALE



45° ACCESSIBLE SPACE LAYOUT (4/5)
SCALE: 1" = 20"

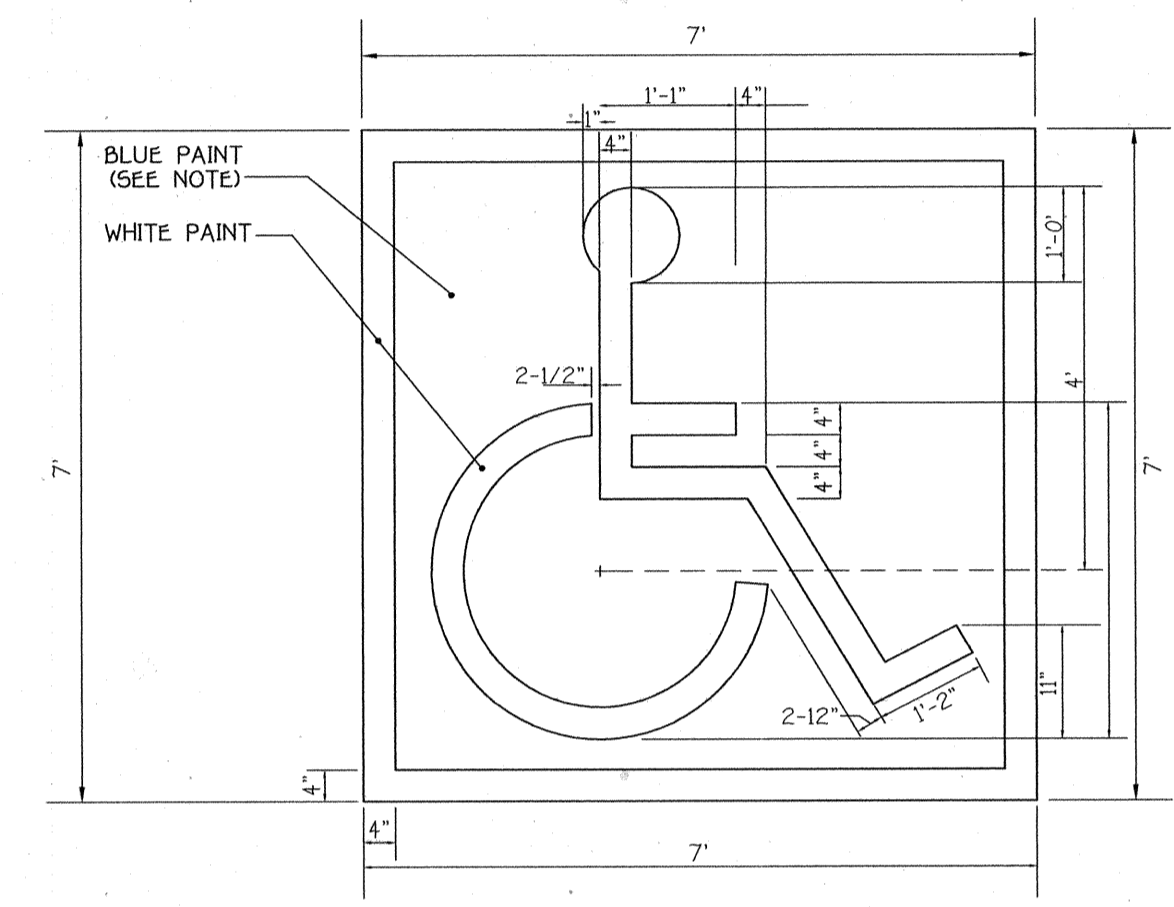


TILT FLAGPOLE DETAIL (11/5)

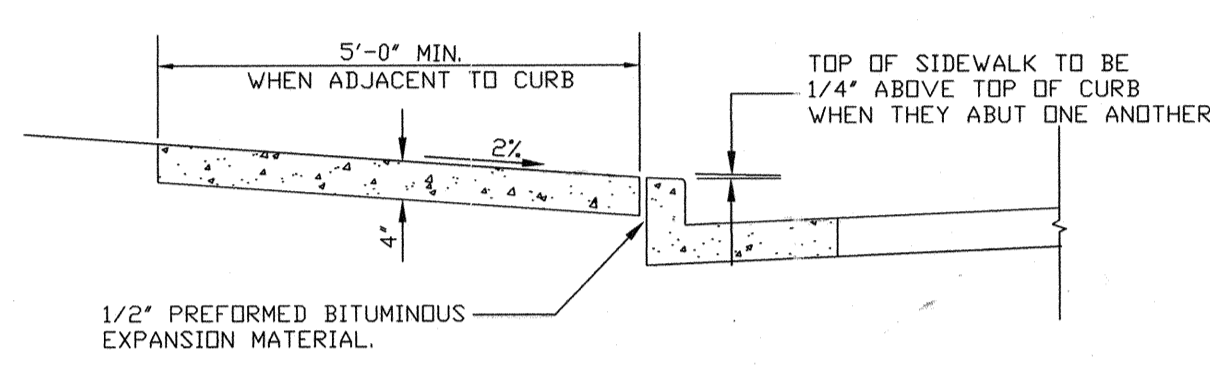


SIGN SIZE	DIMENSIONS (INCHES)																
	A	B	C	D	E	F	G	H	J	K	L	M	N	P	Q	R	S
MIN.	6	12	3/8	3/8	1-1/2	1-1/2	1D	1/2	1-1/2D								
STD.	9	18	3/8	3/8	1-1/2	2-1/4	1-1/2D	1	2D								

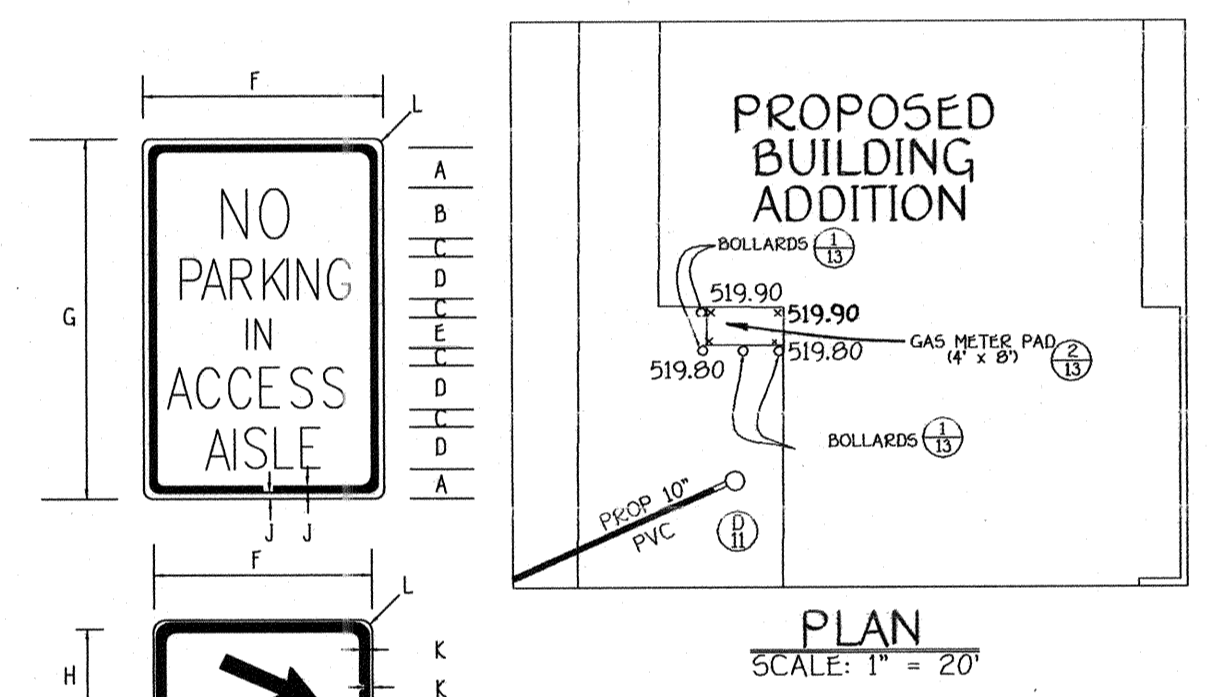
GENERAL NOTES:
 1. SIGNS SHALL MEET DESIGN STANDARDS OF THE FEDERAL HIGHWAY ADMINISTRATION AND CONFORM TO THE STATE OF MARYLAND STANDARD HIGHWAY SIGN BOOKLET DETAIL R7-B.
 2. ONE SIGN IS REQUIRED PER SPACE PLACED AS SHOWN ON SITE DEVELOPMENT PLAN.
 3. SPACE INDICATED ON SITE DEVELOPMENT PLAN AS "VAN" ACCESSIBLE SHALL BE SIGNED ACCORDINGLY.
 4. SIGNS SHALL BE POLE MOUNTED WITH HOT DIP GALVANIZED COUNTY APPROVED PERFORATED CHANNEL POSTS W/TOP OF SIGNS 9'-1" ABOVE FINISHED GRADE OR AS INDICATED ON SITE DRAWINGS.
 5. SIGN SHALL BE ATTACHED TO FLANGED SIDE OF POST. POST SHALL EXTEND INTO GROUND 2'-6" MIN.
 6. LEGEND AND BORDER-GREEN SYMBOL-WHITE ON BLUE BACKGROUND BACKGROUND-WHITE



ACCESSIBLE SPACE STENCIL LAYOUT (7/5)
SCALE: 1" = 20"

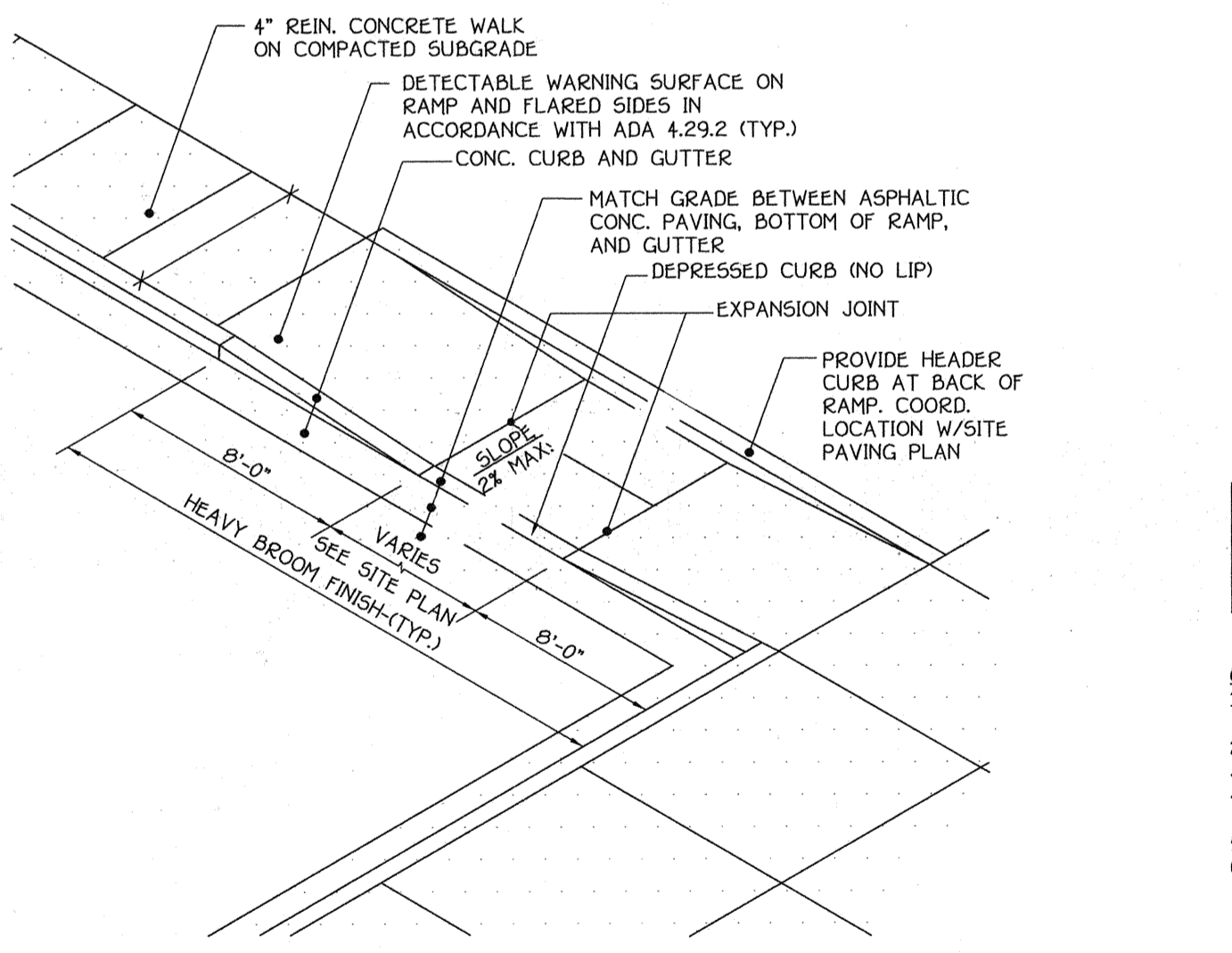


CONCRETE SIDEWALK DETAIL (9/5)

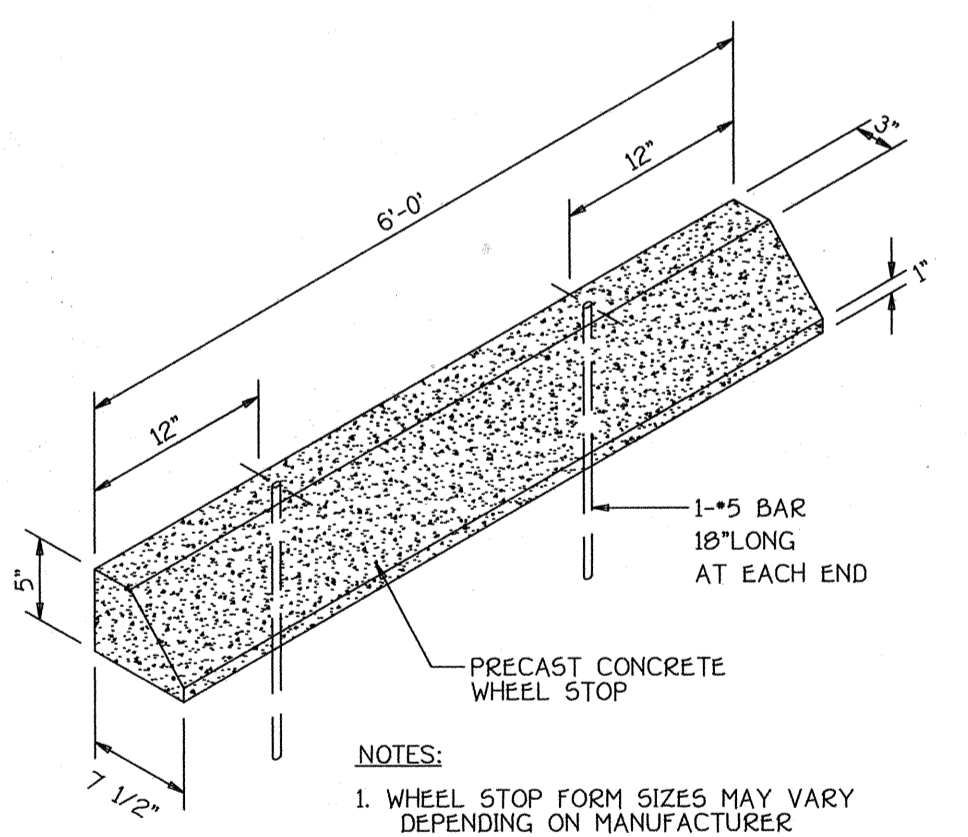


SIGN SIZE	DIMENSIONS (INCHES)													
	A	B	C	D	E	F	G	H	J	K	L	M		
STANDARD	1-3/4	2-1/2	D	1	2	C	1-3/2	D	12	18	6	3/8	1/4	1-1/2

NO PARKING SIGN DETAIL (10/5)
NOT TO SCALE



TYPE C CURB RAMP DETAIL (5/5)
NO SCALE



WHEEL STOP DETAIL (8/5)
NO SCALE



No	Revision	Date
1	Added concrete walks, canopies and utility lines	11-19-04

FISHER, COLLINS & CARTER, INC.
 CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
 CENTENNIAL SQUARE OFFICE PARK - 10272 BALDOR NATIONAL FLYE
 ELICOTT CITY, MARYLAND 21042
 410-461-2929

ENGINEER'S CERTIFICATE
 I hereby certify that this plan for erosion and sediment control represents a practical and workable plan based on my personal knowledge of the site condition and that it was prepared in accordance with the requirements of the Howard Soil Conservation District.
 Signature of Engineer: [Signature]
 Date: 10/23/03

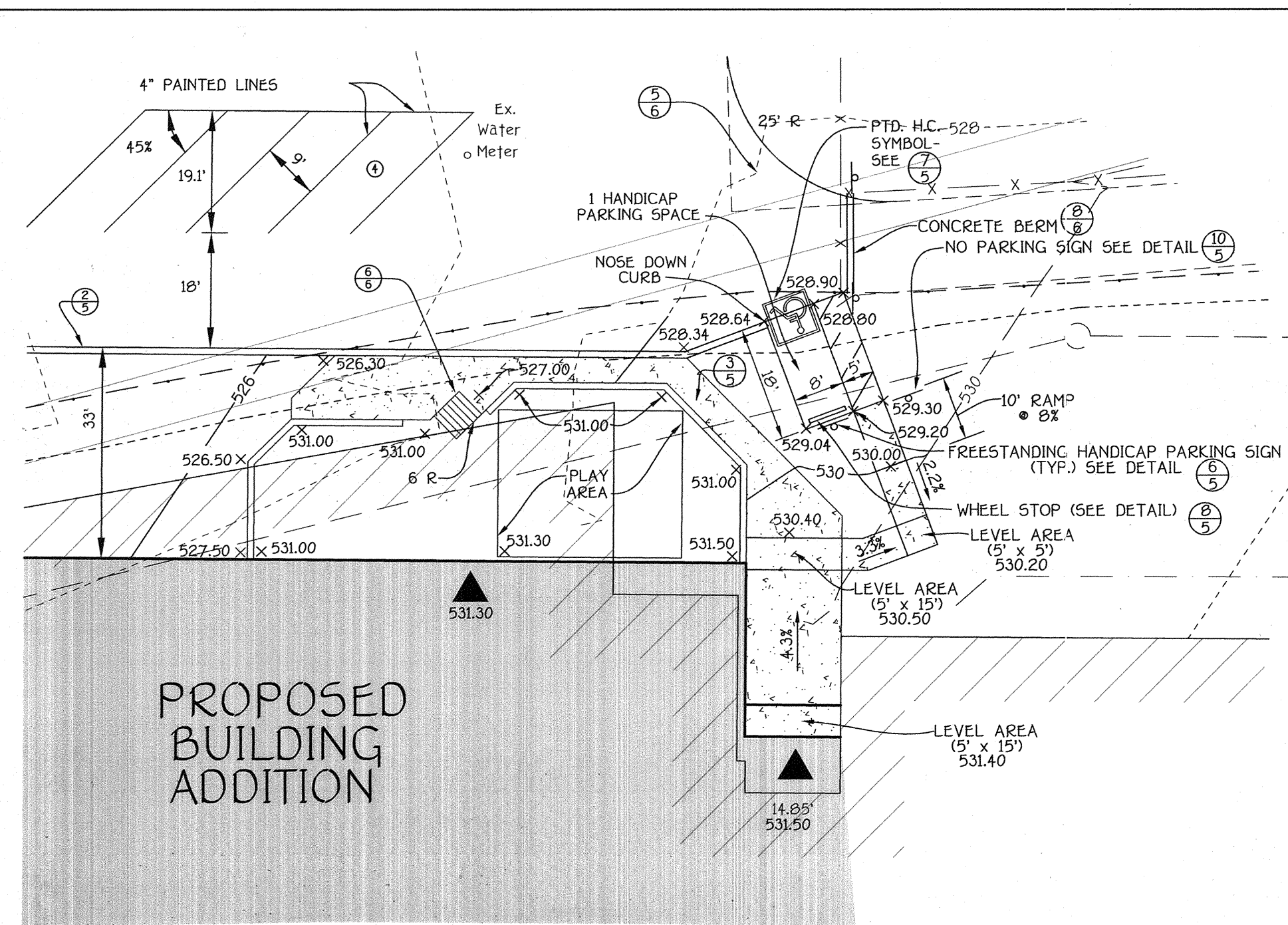
DEVELOPER'S CERTIFICATE
 I/we certify that all development and construction will be done according to this plan of development and plan for erosion and sediment control and that all responsible personnel involved in the construction project will have a certificate of attendance at a department of natural resources approved training program for the control of sediment and erosion before beginning the project. I also authorize periodic on-site inspection by the Howard Soil Conservation District or their authorized agents, as are deemed necessary.
 Signature: [Signature]
 Date: 10-21-03
 Dr. William Brown, Director School Planning and Construction

APPROVED: DEPARTMENT OF PLANNING AND ZONING
 Director - Department of Planning and Zoning: [Signature]
 Date: 11/10/03
 Chief, Division of Land Development: [Signature]
 Date: 11/4/03
 Chief, Development Engineering Division: [Signature]
 Date: 11/4/03

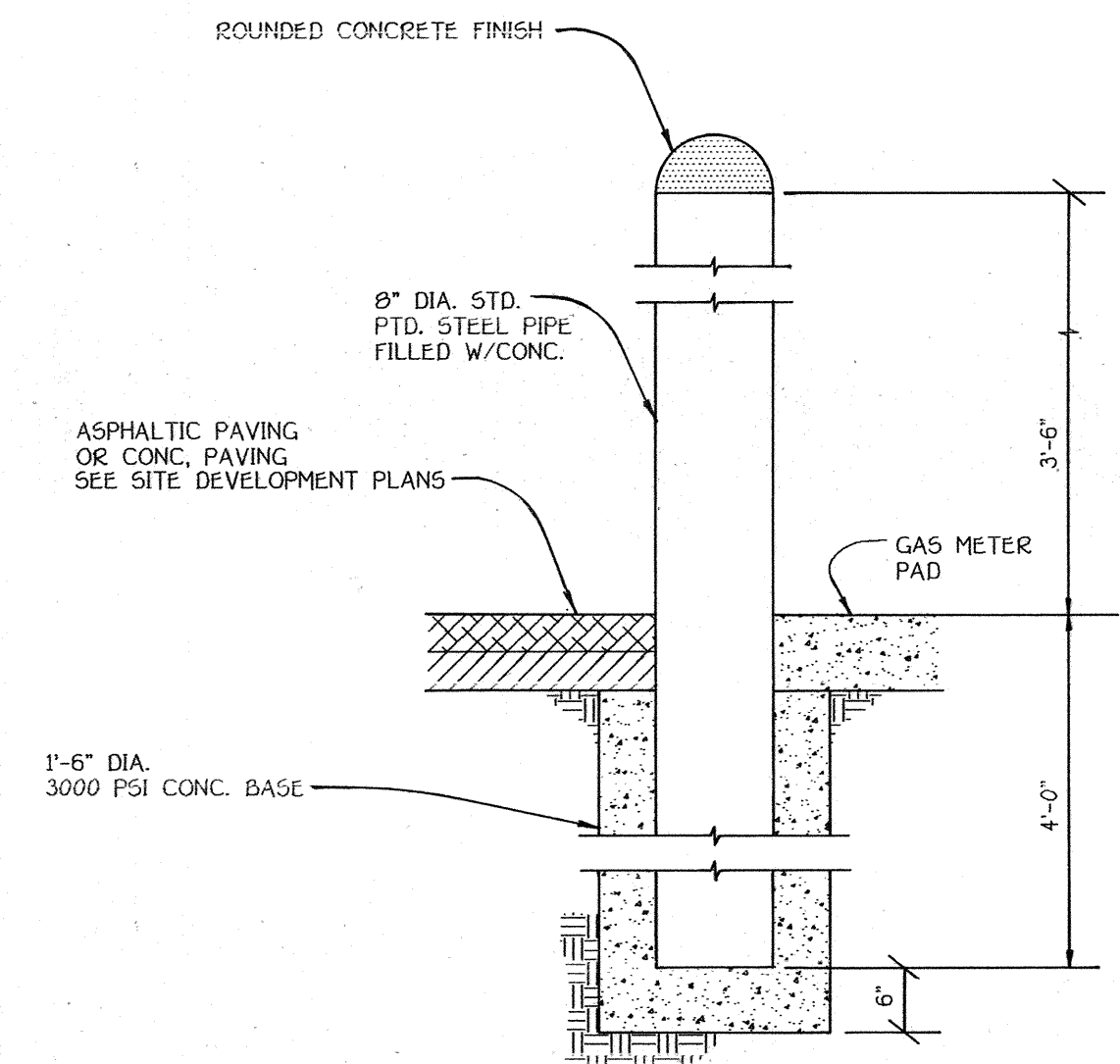
PREPARED FOR:
 HOWARD COUNTY PUBLIC SCHOOL SYSTEM
 10910 Maryland Route 108
 Ellicott City, Maryland 21042
 Attention Cathleen Young
 SMOLEN, EMR AND ASSOCIATES, ARCHITECTS
 10820 PARKLAWN DRIVE
 ROCKVILLE, MARYLAND 20852
 (301) 770-0177

Address Chart	
Parcel Number	Street Address
P. 31	8700 OLD ANNAPOLIS ROAD
DEED RECORDATION REFERENCE 220/239 5276/722	
PROJECT	SECTION/AREA
HOWARD HIGH SCHOOL	N/A
DEED REF. 220/239 5276/722	31
BLOCK NO. 18	ELEC. DIST. 31
ZONE R-20	CENSUS TR. 6023.02
TAX/MAP 30	SEWER CODE 5657400
WATER CODE G07	

DETAIL SHEET
HOWARD HIGH SCHOOL
 BUILDING ADDITIONS AND
 PARKING LOT ADDITION
 TAX MAP No.: 30 PARCEL No.: 31
 SECOND ELECTION DISTRICT HOWARD COUNTY, MARYLAND
 SCALE: AS SHOWN DATE: OCTOBER, 2003
 SHEET 5 OF 13



PLAN
SCALE: 1" = 20'



GAS METER PAD BOLLARD DETAIL
NOT TO SCALE

1
13



FISHER, COLLINS & CARTER, INC.
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
CENTENNIAL SQUARE OFFICE PARK - 10272 BALTIMORE NATIONAL PIKE
ELLSWORTH CITY, MARYLAND 21042
410.461.2000

ENGINEER'S CERTIFICATE
I hereby certify that this plan for erosion and sediment control represents a practical and workable plan based on my personal knowledge of the site condition and that it was prepared in accordance with the requirements of the Howard Soil Conservation District.
[Signature]
Signature of Engineer
10/23/03
Date

DEVELOPER'S CERTIFICATE
"I/We certify that all development and construction will be done according to this plan of development and plan for erosion and sediment control and that all responsible personnel involved in the construction project will have a certificate of attendance at a Department of Natural Resources approved training program for the control of sediment and erosion before beginning the project. I also authorize periodic on-site inspection by the Howard Soil Conservation District or their authorized agents, as are deemed necessary."
[Signature]
Dr. William Brown, Director School Planning and Construction
10-21-03
Date

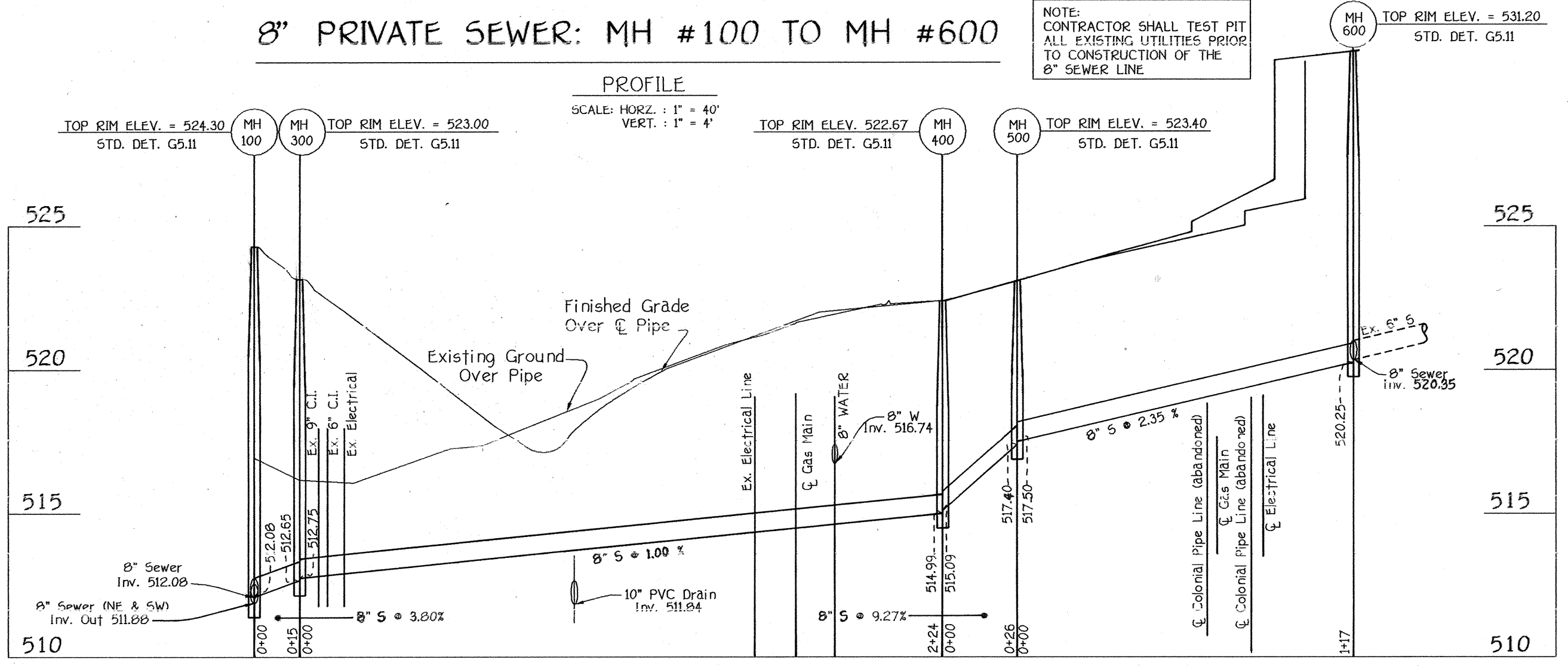
APPROVED: DEPARTMENT OF PLANNING AND ZONING
[Signature]
Director - Department of Planning and Zoning
Date: 11/16/03
[Signature]
Chief, Division of Land Development
Date: 11/16/03
[Signature]
Chief, Development Engineering Division
Date: 11/16/03

PREPARED FOR
HOWARD COUNTY PUBLIC SCHOOL SYSTEM
10910 Maryland Route 108
Ellicott City, Maryland 21042
Attention Cathleen Young

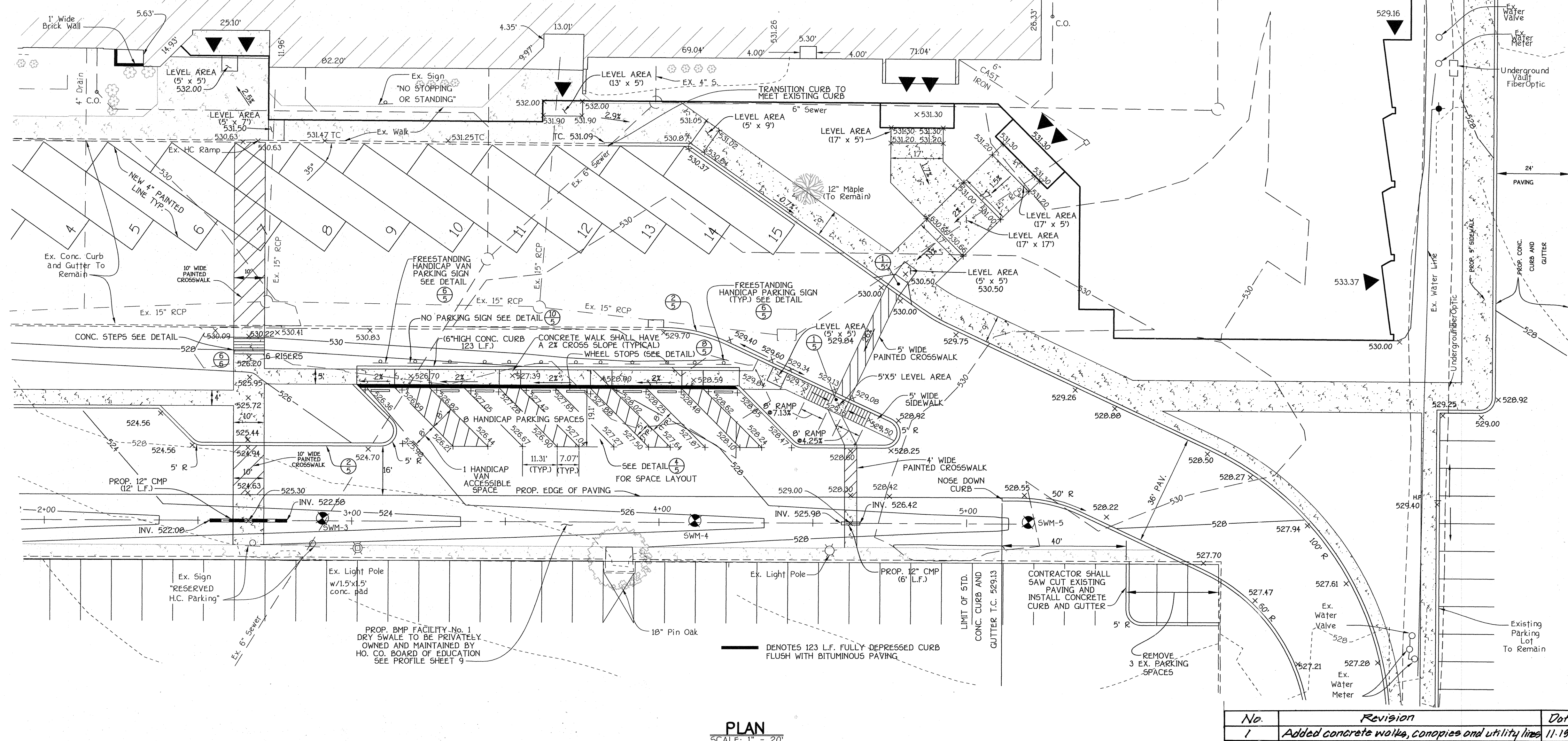
SMOLEN, EMR AND ASSOCIATES
ARCHITECTS
11820 PARKLAWN DRIVE
ROCKVILLE, MARYLAND 20852
(301) 770-0177

Address Chart	
Parcel Number	Street Address
P. 31	OLD ANNAPOLIS ROAD
DEED RECORDATION REFERENCE 220/239 5276/722	
PROJECT HOWARD HIGH SCHOOL	SECTION/AREA N/A
DEED REF. 220/239 5276/722	PARCEL 31
BLOCK NO. R-20	TAX/MAP 30
ZONE R-20	ELEC. DIST. SECOND
CENSUS TR. 6023.02	SEWER CODE 5657400
WATER CODE G07	

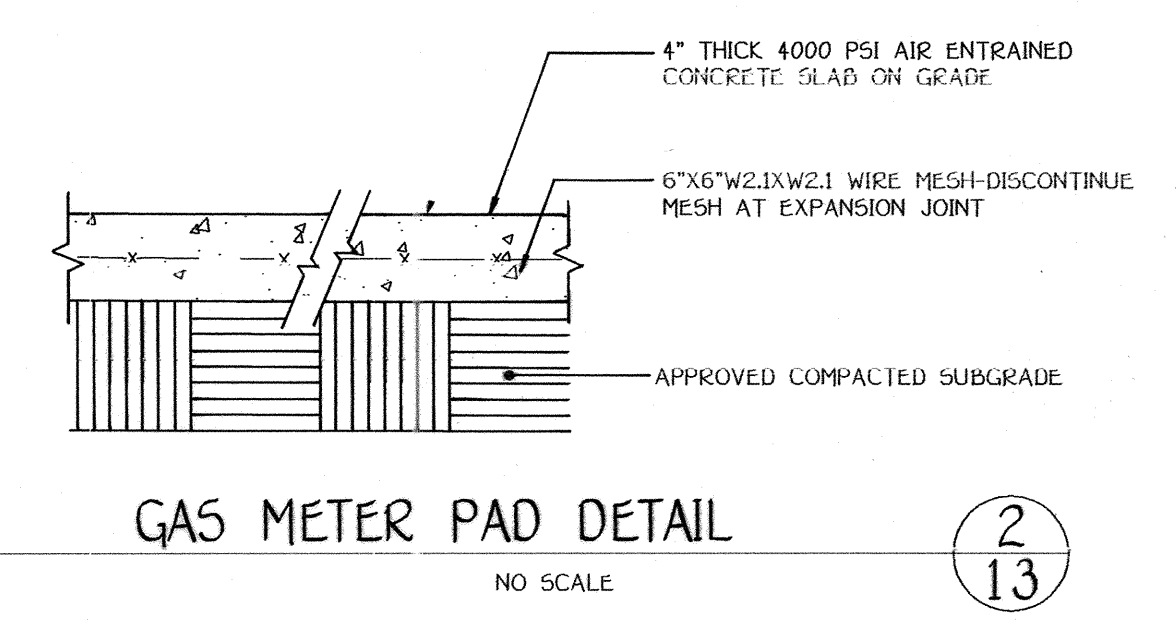
HANDICAP PARKING DETAIL
HOWARD HIGH SCHOOL
BUILDING ADDITIONS AND
PARKING LOT ADDITION
TAX MAP No.: 30 PARCEL No.: 31
SECOND ELECTION DISTRICT HOWARD COUNTY, MARYLAND
SCALE: AS SHOWN DATE: OCTOBER, 2003
SHEET 7 OF 13



HOWARD HIGH SCHOOL
F.F.E. 532.00

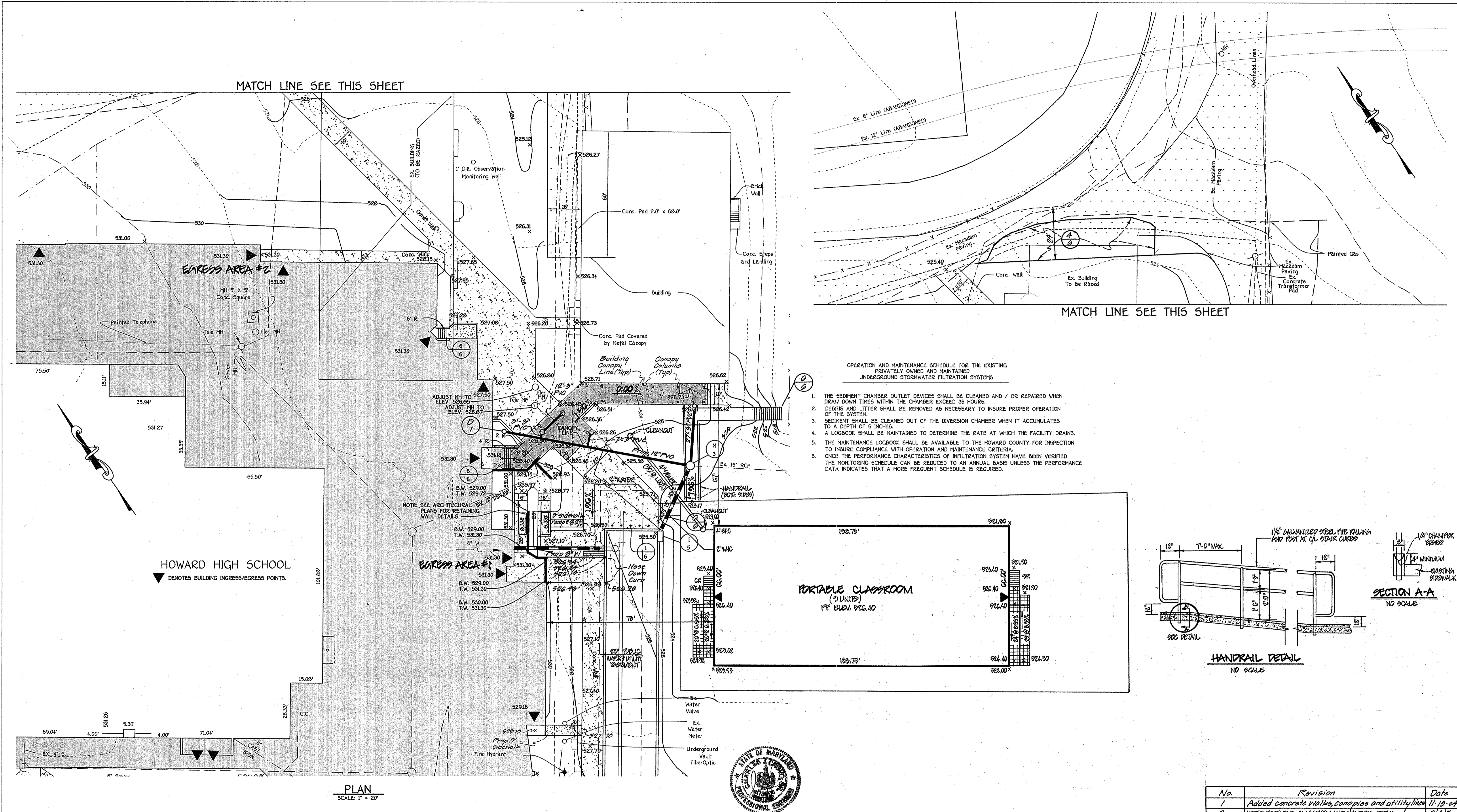


PLAN
SCALE: 1" = 20'

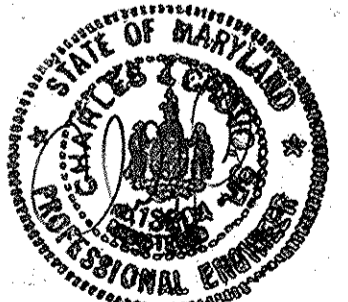
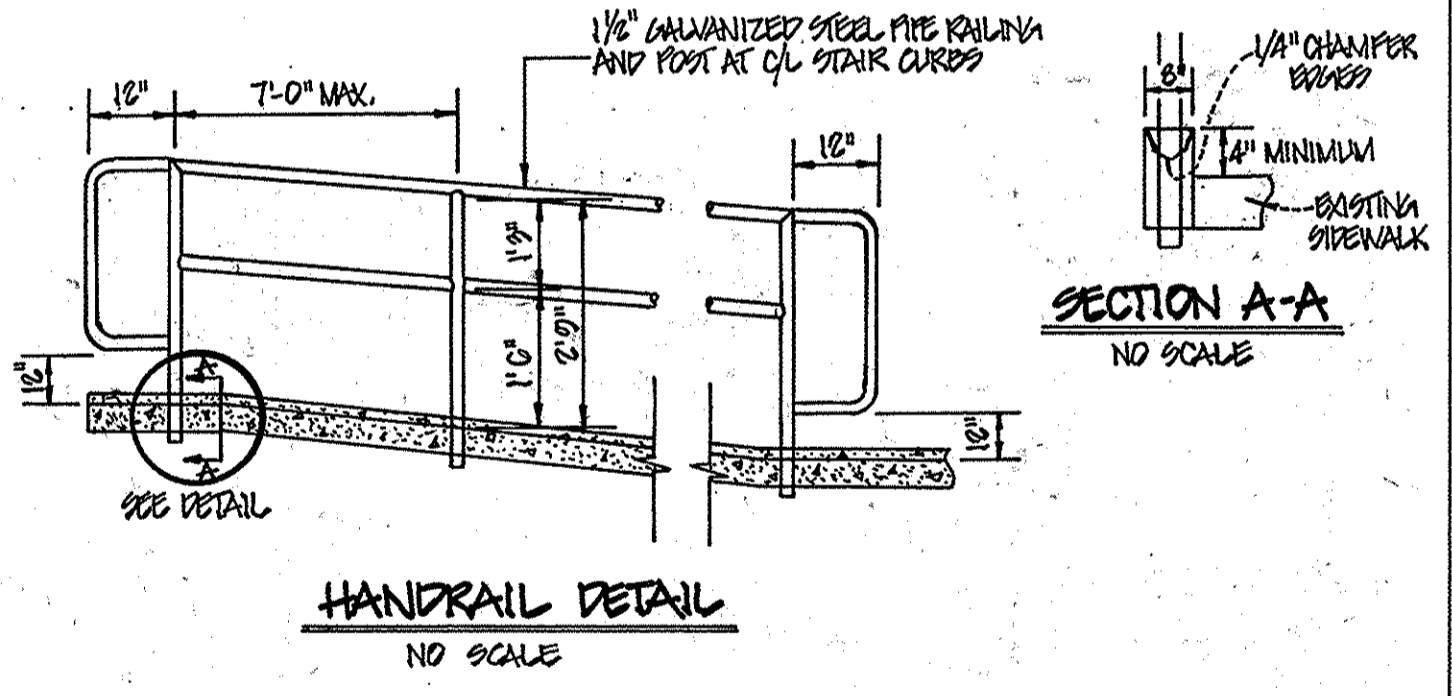


GAS METER PAD DETAIL
NO SCALE

2
13



- OPERATION AND MAINTENANCE SCHEDULE FOR THE EXISTING PRIVATELY OWNED AND MAINTAINED UNDERGROUND STORMWATER FILTRATION SYSTEMS
1. THE SEDIMENT CHAMBER OUTLET DEVICES SHALL BE CLEANED AND / OR REPAIRED WHEN DRAIN DOWN TIMES WITHIN THE CHAMBER EXCEED 36 HOURS.
 2. DEBRIS AND LITTER SHALL BE REMOVED AS NECESSARY TO INSURE PROPER OPERATION OF THE SYSTEM.
 3. SEDIMENT SHALL BE CLEANED OUT OF THE DIVERSION CHAMBER WHEN IT ACCUMULATES TO A DEPTH OF 6 INCHES.
 4. A LOGBOOK SHALL BE MAINTAINED TO DETERMINE THE RATE AT WHICH THE FACILITY DRAINS.
 5. THE MAINTENANCE LOGBOOK SHALL BE AVAILABLE TO THE HOWARD COUNTY FOR INSPECTION TO INSURE COMPLIANCE WITH OPERATION AND MAINTENANCE CRITERIA.
 6. ONCE THE PERFORMANCE CHARACTERISTICS OF INFILTRATION SYSTEM 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.



ENGINEER'S CERTIFICATE

I Herby Certify That This Plan For Erosion And Sediment Control Represents A Practical And Workable Plan Based On My Personal Knowledge Of The Site Condition And That It Was Prepared In Accordance With The Requirements Of The Howard Soil Conservation District.

[Signature]
Signature Of Engineer
10/23/03
Date

Reviewed For Howard County Soil Conservation District And Meets Technical Requirements.
[Signature]
10/29/03
Date

U.S.A. - Natural Resources Conservation Service

DEVELOPER'S CERTIFICATE

"I/We Certify That All Development And Construction Will Be Done According To This Plan Of Development And Plan For Erosion And Sediment Control And That All Responsible Personnel Involved In The Construction Project Will Have A Certificate Of Attendance At A Department Of Natural Resources Approved Training Program For The Control Of Sediment And Erosion Before Beginning The Project. I Also Authorize Periodic On-Site Inspection By The Howard Soil Conservation District Or Their Authorized Agents, As Are Deemed Necessary."

[Signature]
Dr. William Brown, Director School Planning and Construction
10-21-03
Date

Approved: This Development Is Approved For Erosion And Sediment Control By The Howard Soil Conservation District.
[Signature]
District Howard Soil Conservation Dist.
10/29/03
Date

APPROVED: DEPARTMENT OF PLANNING AND ZONING

[Signature]
Director - Department of Planning and Zoning
11/14/03
Date

[Signature]
Chief, Division of Land Development
11/14/03
Date

[Signature]
Chief, Development Engineering Division
11/4/03
Date

PREPARED FOR
HOWARD COUNTY PUBLIC SCHOOL SYSTEM
10910 Maryland Route 109
Ellicott City, Maryland 21042
Attention Cathleen Young

SMOLEN, EHR AND ASSOCIATES, ARCHITECTS
11820 PARKLAWN DRIVE
ROCKVILLE, MARYLAND 20852
(301) 770-0177

Address Chart					
Parcel Number	Street Address				
P. 31	8700 OLD ANNAPOLIS ROAD				
DEED RECORDATION REFERENCE					
220/239 5276/722					
PROJECT	SECTION/AREA	PARCEL			
HOWARD HIGH SCHOOL	N/A	31			
DEED REF.	BLOCK NO.	ZONE	TAX/MAP	ELEC. DIST.	CENSUS TR.
220/239	1B	R-20	30	SECOND	6023.02
WATER CODE		SEWER CODE			
G07		5657400			

DETAIL SHEET

HOWARD HIGH SCHOOL BUILDING ADDITIONS AND PARKING LOT ADDITION

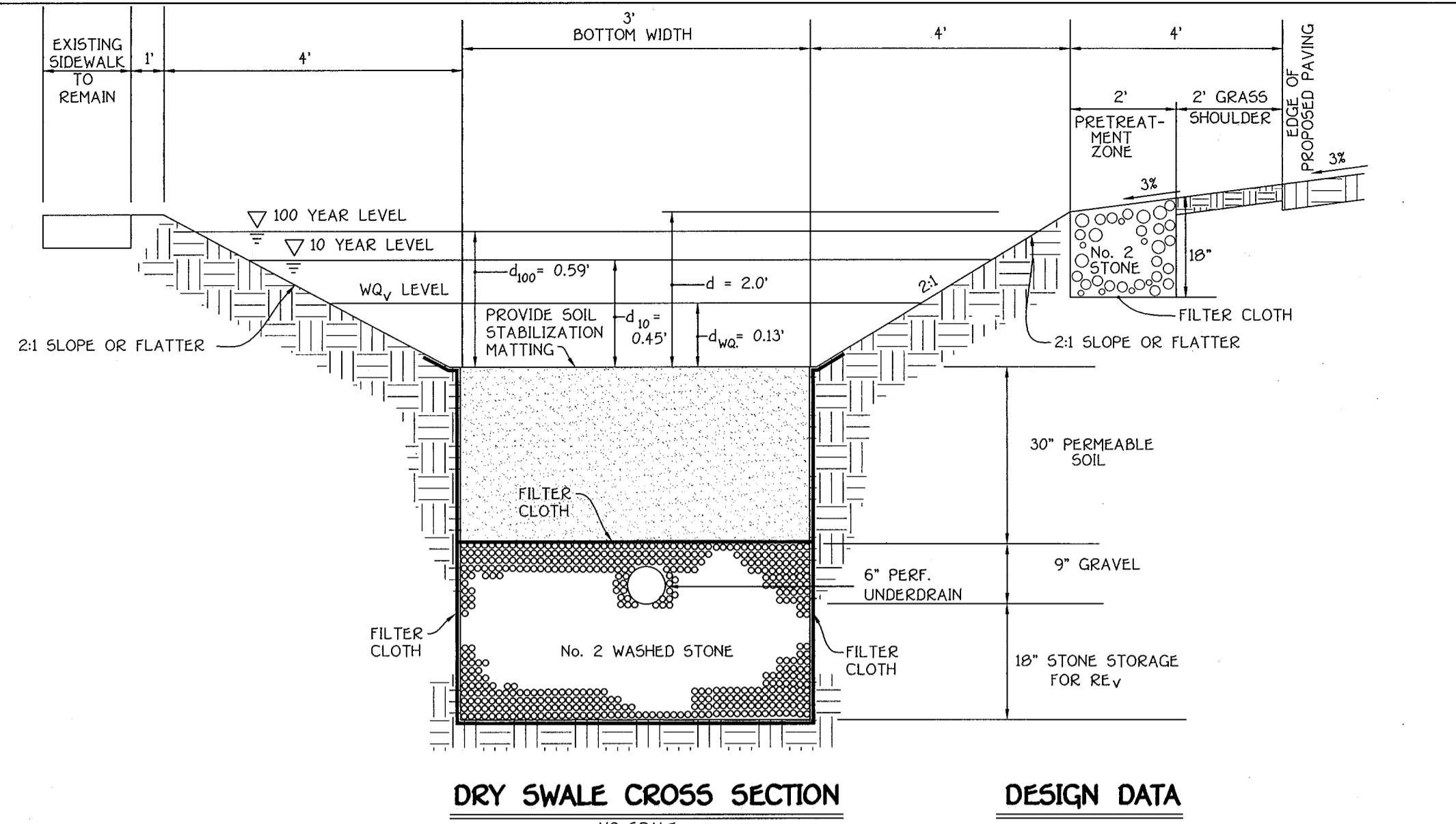
TAX MAP No.: 30 PARCEL No.: 31
SECOND ELECTION DISTRICT HOWARD COUNTY, MARYLAND
SCALE: AS SHOWN DATE: OCTOBER, 2003

SHEET 8 OF 13

PROJECT: HOWARD HIGH SCHOOL ADDITIONS/ALTERATIONS PROJECT NO.: 03-40-2086						
CLIENT: HOWARD COUNTY PUBLIC SCHOOLS						
PROJECT LOCATION: RTE. 108 AND RTE. 104, COLUMBIA, MD						
LOCATION: WEST END OF SWM FACILITY						
ELEVATION: 520.31	LOGGED BY: TCS					
DRILLER: EBA	DATE: 2-13-03					
DRILLING METHOD: HSA	DEPTH TO WATER INITIAL: DRY AFTER 24 HOURS: DRY CAVING: C 13					
TEST RESULTS						
Depth (feet)	Description	Grain Size	Plastic Limit	Shrinkage	Water Content	Liquid Limit
0	TOPSOIL, 6-INCHES					
0	RED/ORANGE MOIST CLAYEY SAND WITH GRAVEL MEDIUM DENSE	1				
4	USCS CLASSIFICATION - SC USDA TEXTURE - SANDY LOAM INFILTRATION RATE - 1.02 IN/HR					
4	PURPLE RED MOTTLED MOIST CLAY VERY STIFF	2				
6	USCS CLASSIFICATION - CL USDA TEXTURE - CLAY INFILTRATION RATE - 0.2 IN/HR					
12	REDDISH BROWN MOIST CLAYEY SAND WITH GRAVEL MEDIUM DENSE	3				
16	USCS CLASSIFICATION - SC USDA TEXTURE - SANDY LOAM INFILTRATION RATE - 1.02 IN/HR					
20	Boring terminated at 20 ft.	4				
24		5				
28		6				

PROJECT: HOWARD HIGH SCHOOL ADDITIONS/ALTERATIONS PROJECT NO.: 03-40-2086						
CLIENT: HOWARD COUNTY PUBLIC SCHOOLS						
PROJECT LOCATION: RTE. 108 AND RTE. 104, COLUMBIA, MD						
LOCATION: WEST END OF SWM FACILITY						
ELEVATION: 521.5	LOGGED BY: TCS					
DRILLER: EBA	DATE: 2-13-03					
DRILLING METHOD: HSA	DEPTH TO WATER INITIAL: DRY AFTER 24 HOURS: DRY CAVING: C 11.9					
TEST RESULTS						
Depth (feet)	Description	Grain Size	Plastic Limit	Shrinkage	Water Content	Liquid Limit
0	TOPSOIL, 5-INCHES					
0	RED/ORANGE MOIST CLAYEY SAND WITH GRAVEL MEDIUM DENSE	1				
4	USCS CLASSIFICATION - SC USDA TEXTURE - SANDY LOAM INFILTRATION RATE - 1.02 IN/HR					
8	PURPLE YELLOW MOTTLED MOIST CLAY VERY STIFF	2				
12	USCS CLASSIFICATION - CL USDA TEXTURE - CLAY INFILTRATION RATE - 0.2 IN/HR					
16	REDDISH BROWN MOIST CLAYEY SAND WITH GRAVEL MEDIUM DENSE	3				
20	USCS CLASSIFICATION - SC USDA TEXTURE - SANDY LOAM INFILTRATION RATE - 1.02 IN/HR					
24	Boring terminated at 20 ft.	4				
28		5				

PROJECT: HOWARD HIGH SCHOOL ADDITIONS/ALTERATIONS PROJECT NO.: 03-40-2086						
CLIENT: HOWARD COUNTY PUBLIC SCHOOLS						
PROJECT LOCATION: RTE. 108 AND RTE. 104, COLUMBIA, MD						
LOCATION: CENTER OF SWM FACILITY						
ELEVATION: 527.15	LOGGED BY: TCS					
DRILLER: EBA	DATE: 2-13-03					
DRILLING METHOD: HSA	DEPTH TO WATER INITIAL: DRY AFTER 24 HOURS: DRY CAVING: C 13					
TEST RESULTS						
Depth (feet)	Description	Grain Size	Plastic Limit	Shrinkage	Water Content	Liquid Limit
0	TOPSOIL, 3-INCHES					
0	RED/ORANGE MOIST CLAYEY SAND WITH GRAVEL MEDIUM DENSE	1				
4	USCS CLASSIFICATION - SC USDA TEXTURE - SANDY LOAM INFILTRATION RATE - 1.02 IN/HR					
8	RED/WHITE MOTTLED MOIST CLAY VERY STIFF	2				
12	USCS CLASSIFICATION - CL USDA TEXTURE - CLAY INFILTRATION RATE - 0.2 IN/HR					
16	REDDISH BROWN SILTY SAND MEDIUM DENSE	3				
20	USCS CLASSIFICATION - SM USDA TEXTURE - SANDY LOAM INFILTRATION RATE - 1.02 IN/HR					
24	YELLOW/WHITE MOIST POOLY GRADED SAND AND GRAVEL MEDIUM DENSE	4				
28	USCS CLASSIFICATION - SP USDA TEXTURE - SAND INFILTRATION RATE - 3.27 IN/HR					
32	Boring terminated at 20 ft.	5				
36		6				



DESIGN DATA

NO SCALE

OPERATION AND MAINTENANCE SCHEDULE FOR PRIVATELY OWNED AND MAINTAINED OPEN CHANNEL SYSTEM

A. The open channel system shall be inspected annually and after major storms. Inspections shall be performed during wet weather to determine if the facility is functioning properly.

B. The open channel shall be mowed a minimum of as needed during the growing season to maintain a maximum grass height of less than 6 inches.

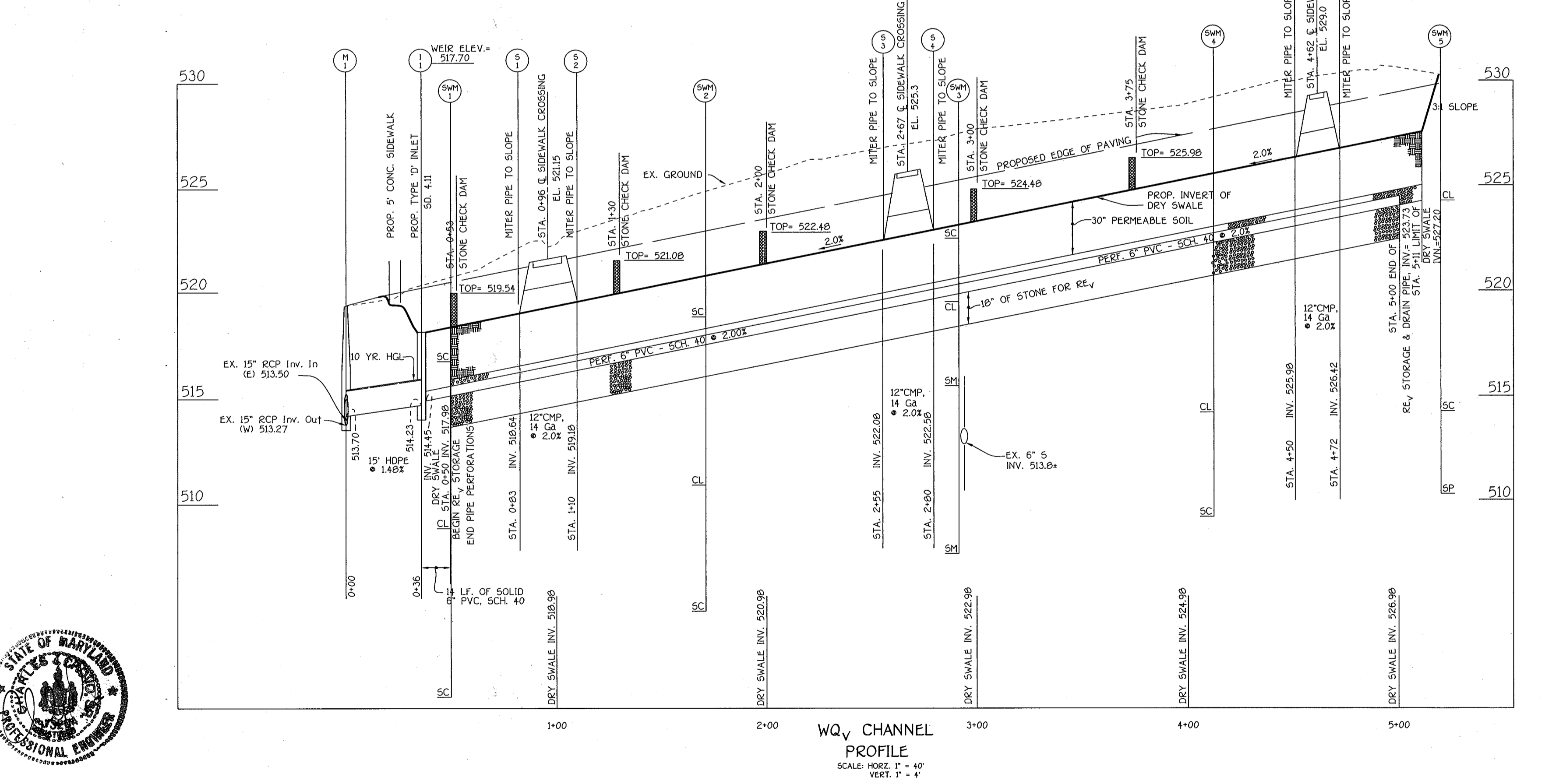
C. Debris and litter shall be removed during regular mowing operations and as needed.

D. Visible signs of erosion in the open channel system shall be repaired as soon as it is noticed.

E. Remove silt in the open channel system when it exceeds 25% of the original WQV.

PROJECT: HOWARD HIGH SCHOOL ADDITIONS/ALTERATIONS PROJECT NO.: 03-40-2086						
CLIENT: HOWARD COUNTY PUBLIC SCHOOLS						
PROJECT LOCATION: RTE. 108 AND RTE. 104, COLUMBIA, MD						
LOCATION: EAST SIDE OF SWM FACILITY						
ELEVATION: 521.84	LOGGED BY: TCS					
DRILLER: EBA	DATE: 2-13-03					
DRILLING METHOD: HSA	DEPTH TO WATER INITIAL: DRY AFTER 24 HOURS: DRY CAVING: C 14.3					
TEST RESULTS						
Depth (feet)	Description	Grain Size	Plastic Limit	Shrinkage	Water Content	Liquid Limit
0	TOPSOIL, 4-INCHES					
0	REDDISH BROWN TO BROWN MOIST CLAY FILL VERY STIFF	1				
4	USCS CLASSIFICATION - CL USDA TEXTURE - CLAY AND CLAY LOAM INFILTRATION RATE - 0.2 TO 0.9 IN/HR					
8	REDDISH BROWN MOIST CLAYEY SAND WITH GRAVEL DENSE	2				
12	USCS CLASSIFICATION - SC USDA TEXTURE - SANDY LOAM INFILTRATION RATE - 1.02 IN/HR					
16	Boring terminated at 20 ft.	3				
20		4				
24		5				
28		6				

PROJECT: HOWARD HIGH SCHOOL ADDITIONS/ALTERATIONS PROJECT NO.: 03-40-2086						
CLIENT: HOWARD COUNTY PUBLIC SCHOOLS						
PROJECT LOCATION: RTE. 108 AND RTE. 104, COLUMBIA, MD						
LOCATION: EAST END OF SWM FACILITY						
ELEVATION: 530.15	LOGGED BY: TCS					
DRILLER: EBA	DATE: 2-13-03					
DRILLING METHOD: HSA	DEPTH TO WATER INITIAL: DRY AFTER 24 HOURS: DRY CAVING: C 11.9					
TEST RESULTS						
Depth (feet)	Description	Grain Size	Plastic Limit	Shrinkage	Water Content	Liquid Limit
0	TOPSOIL, 3-INCHES					
0	RED/BROWN MOIST CLAY VERY STIFF	1				
4	USCS CLASSIFICATION - CL USDA TEXTURE - CLAY INFILTRATION RATE - 0.2 IN/HR					
8	RED MOIST CLAYEY SAND WITH GRAVEL MEDIUM DENSE	2				
12	USCS CLASSIFICATION - SC USDA TEXTURE - SANDY LOAM INFILTRATION RATE - 1.02 IN/HR					
16	YELLOW/WHITE MOIST POOLY GRADED FINE SAND LOOSE	3				
20	USCS CLASSIFICATION - SP USDA TEXTURE - SAND INFILTRATION RATE - 8.27 IN/HR					
24	Boring terminated at 20 ft.	4				
28		5				



ENGINEER'S CERTIFICATE

I hereby certify that this plan for Erosion and Sediment Control Represents a Practical and Workable Plan Based on My Personal Knowledge of the Site Conditions and That It was Prepared in Accordance with the Requirements of the Howard Soil Conservation District.

[Signature]
Signature of Engineer

10/23/03
Date

Reviewed for Howard County Soil Conservation District and Meets Technical Requirements.

U.S.D.A. - Natural Resources Conservation Service

DEVELOPER'S CERTIFICATE

"I/we certify that All Development and Construction will be Done According to This Plan of Development and Plan for Erosion and Sediment Control and That All Responsible Personnel Involved in the Construction Project will Have a Certificate of Attendance at a Department of Natural Resources Approved Training Program for the Control of Sediment and Erosion before Beginning the Project. I also Authorize Periodic On-Site Inspection by the Howard Soil Conservation District or Their Authorized Agents, as Are Deemed Necessary."

[Signature]
Dr. William Brown, Director School Planning and Construction

10-21-03
Date

Approved: This Development is Approved for Erosion and Sediment Control by The Howard Soil Conservation District.

[Signature]
District Howard Soil Conservation Dist.

APPROVED: DEPARTMENT OF PLANNING AND ZONING

[Signature]
Director - Department of Planning and Zoning

11/16/03
Date

[Signature]
Chief, Division of Land Development

11/6/03
Date

[Signature]
Chief, Development Engineering Division

4/14/07
Date

PREPARED FOR:
HOWARD COUNTY PUBLIC SCHOOL SYSTEM
10910 Maryland Route 108
Ellicott City, Maryland 21042
Attention Cathleen Young

SMOLEN, EMR AND ASSOCIATES, ARCHITECTS
11820 PARKLAWN DRIVE
ROCKVILLE, MARYLAND 20852
(301) 770-0177

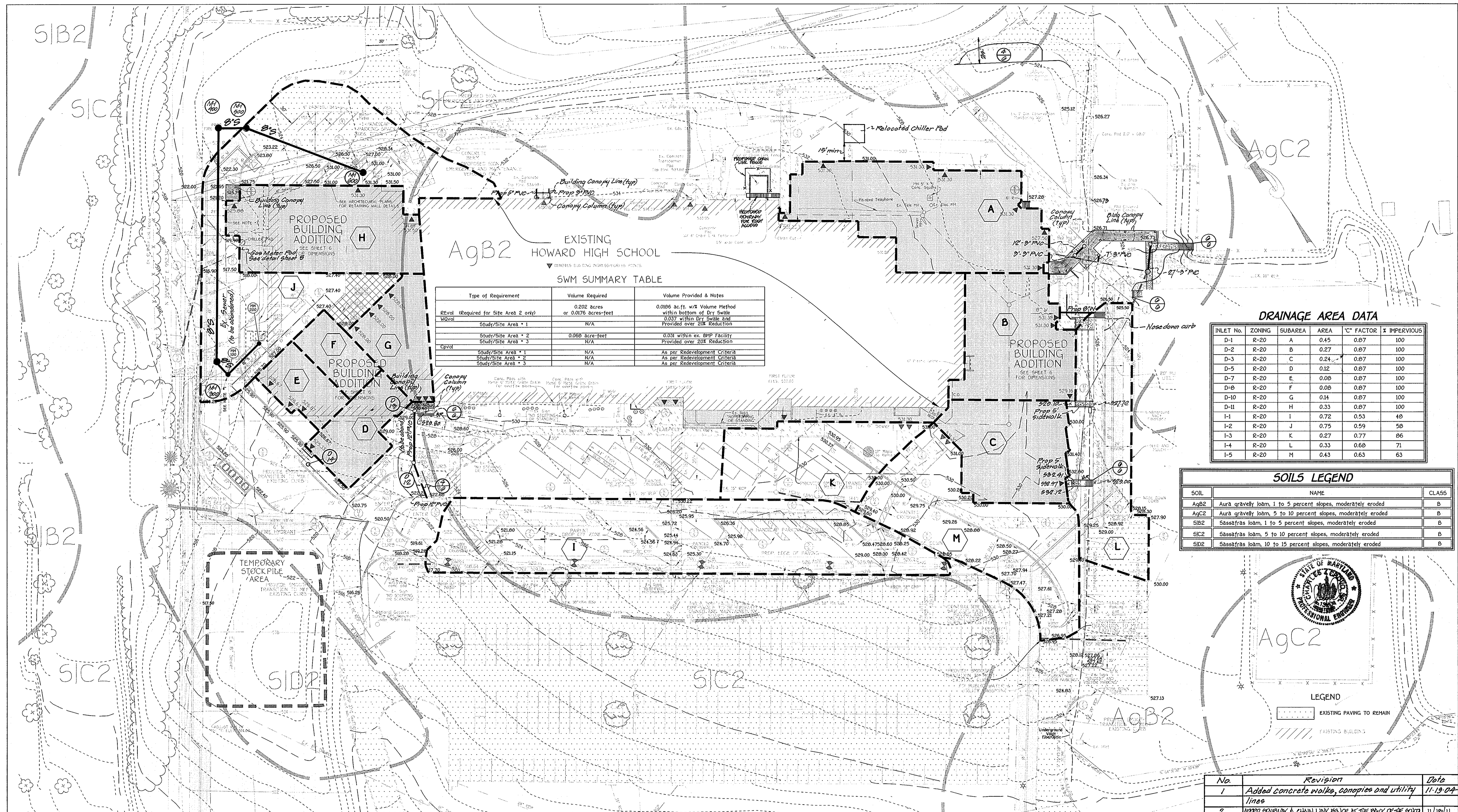
Address Chart	
Parcel Number	Street Address
P. 31	8700 OLD ANNAPOLIS ROAD
DEED RECORDATION REFERENCE 220/239 5276/722	
PROJECT	SECTION/AREA
HOWARD HIGH SCHOOL	N/A
DEED REF.	BLOCK NO.
220/239	18
5276/722	ZONE
	R-20
WATER CODE	TAX MAP
G07	30
	ELEC. DIST.
	SECOND
	CENSUS TR.
	6023.02
	SEWER CODE
	5657400

SOIL BORING LOGS AND WQV CHANNEL PROFILE AND CROSS SECTION

HOWARD HIGH SCHOOL BUILDING ADDITIONS AND PARKING LOT ADDITION

TAX MAP No.: 30 PARCEL No.: 31
SECOND ELECTION DISTRICT HOWARD COUNTY, MARYLAND
SCALE: AS SHOWN DATE: OCTOBER, 2003

SHEET 9 OF 13



SWM SUMMARY TABLE

Type of Requirement	Volume Required	Volume Provided & Notes
Revol (Required for Site Area 2 only)	0.202 acres or 0.0176 acre-feet	0.0186 ac.ft. w/2 Volume Method within bottom of Dry Swale
W/col		0.037 within Dry Swale and Provided over 20% Reduction
Study/Site Area * 1	N/A	
Study/Site Area * 2	0.058 acre-feet	0.031 within ex. BHP Facility Provided over 20% Reduction
Study/Site Area * 3	N/A	
Cpval		
Study/Site Area * 1	N/A	As per Redevelopment Criteria
Study/Site Area * 2	N/A	As per Redevelopment Criteria
Study/Site Area * 3	N/A	As per Redevelopment Criteria

DRAINAGE AREA DATA

INLET No.	ZONING	SUBAREA	AREA	C ² FACTOR	% IMPERVIOUS
D-1	R-20	A	0.45	0.87	100
D-2	R-20	B	0.27	0.87	100
D-3	R-20	C	0.24	0.87	100
D-5	R-20	D	0.12	0.87	100
D-7	R-20	E	0.08	0.87	100
D-8	R-20	F	0.08	0.87	100
D-10	R-20	G	0.14	0.87	100
D-11	R-20	H	0.33	0.87	100
I-1	R-20	I	0.72	0.53	48
I-2	R-20	J	0.75	0.59	56
I-3	R-20	K	0.27	0.77	86
I-4	R-20	L	0.33	0.68	71
I-5	R-20	M	0.43	0.63	63

SOILS LEGEND

SOIL	NAME	CLASS
AgB2	Aurá gravelly loam, 1 to 5 percent slopes, moderately eroded	B
AgC2	Aurá gravelly loam, 5 to 10 percent slopes, moderately eroded	B
SIB2	Sassafras loam, 1 to 5 percent slopes, moderately eroded	B
SIC2	Sassafras loam, 5 to 10 percent slopes, moderately eroded	B
SID2	Sassafras loam, 10 to 15 percent slopes, moderately eroded	B

LEGEND

- EXISTING PAVING TO REMAIN
- EXISTING BUILDING

PROFESSIONAL ENGINEER
 STATE OF MARYLAND
 JOHN W. [Name]
 No. [Number]

No.	Revision	Date
1	Added concrete walks, canopies and utility lines	11-19-04
2	ADDED SPARKY & CHAIN LINK FENCE AT THE BACK OF THE SCHOOL	11/18/11

ENGINEER'S CERTIFICATE

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

[Signature]
 Signature of Engineer
 10/23/03
 Date

Reviewed For Howard County Soil Conservation District And Meets Technical Requirements.
 U.S.D.A. - Natural Resources Conservation Service
 Date

DEVELOPER'S CERTIFICATE

"I/We certify that all development and construction will be done according to this plan of development and plan for erosion and sediment control and that all responsible personnel involved in the construction project will have a certificate of attendance at a Department of Natural Resources Approved Training Program for the control of sediment and erosion before beginning the project. I also authorize periodic on-site inspection by the Howard Soil Conservation District or their authorized agents, as are deemed necessary."

[Signature]
 Dr. William Brown, Director School Planning and Construction
 10-21-03
 Date

Approved. This Development Is Approved For Erosion And Sediment Control By The Howard Soil Conservation District.
 District Howard Soil Conservation Dist.
 Date

APPROVED: DEPARTMENT OF PLANNING AND ZONING

[Signature]
 Director - Department of Planning and Zoning
 11/14/03
 Date

[Signature]
 Chief, Division of Land Development
 11/6/03
 Date

[Signature]
 Chief, Development Engineering Division
 11/14/03
 Date

PREPARED FOR:
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 10910 Maryland Route 108
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 Attention Cathleen Young

SMOLEN, EMR AND ASSOCIATES, ARCHITECTS
 11820 PARKLAWN DRIVE SUITE 404
 ROCKVILLE, MARYLAND 20852
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Address Chart

Parcel Number	Street Address
P. 31	8700 OLD ANNAPOLIS ROAD

DEED RECORDATION REFERENCE
 220/239 5276/722

PROJECT	SECTION/AREA	PARCEL
HOWARD HIGH SCHOOL	N/A	31

DEED REF.	BLOCK NO.	TAX/MAP	ELEC. DIST.	CENSUS TR.
220/239 5276/722	18	R-20 30	SECOND	6023.02

WATER CODE	SEWER CODE
G07	5657400

STORM DRAIN DRAINAGE AREA MAP

**HOWARD HIGH SCHOOL
 BUILDING ADDITIONS AND
 PARKING LOT ADDITION**

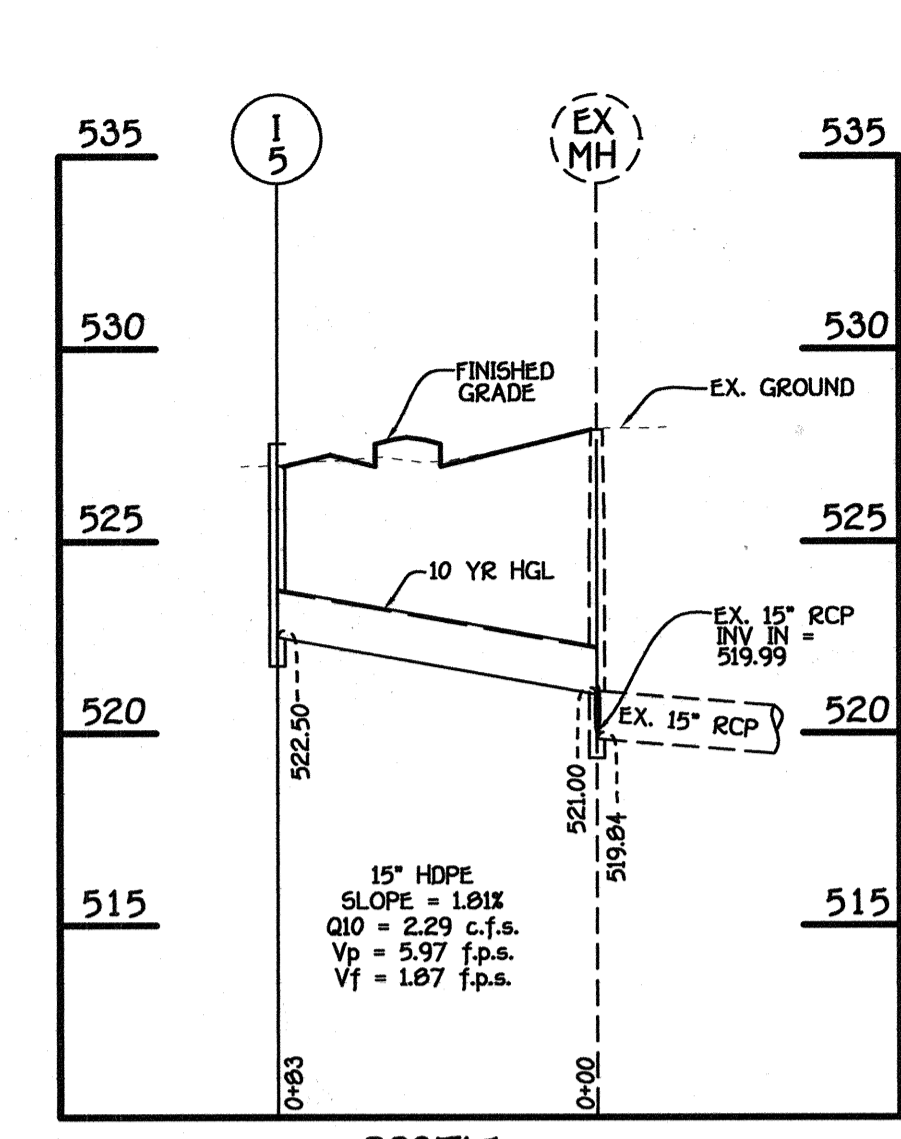
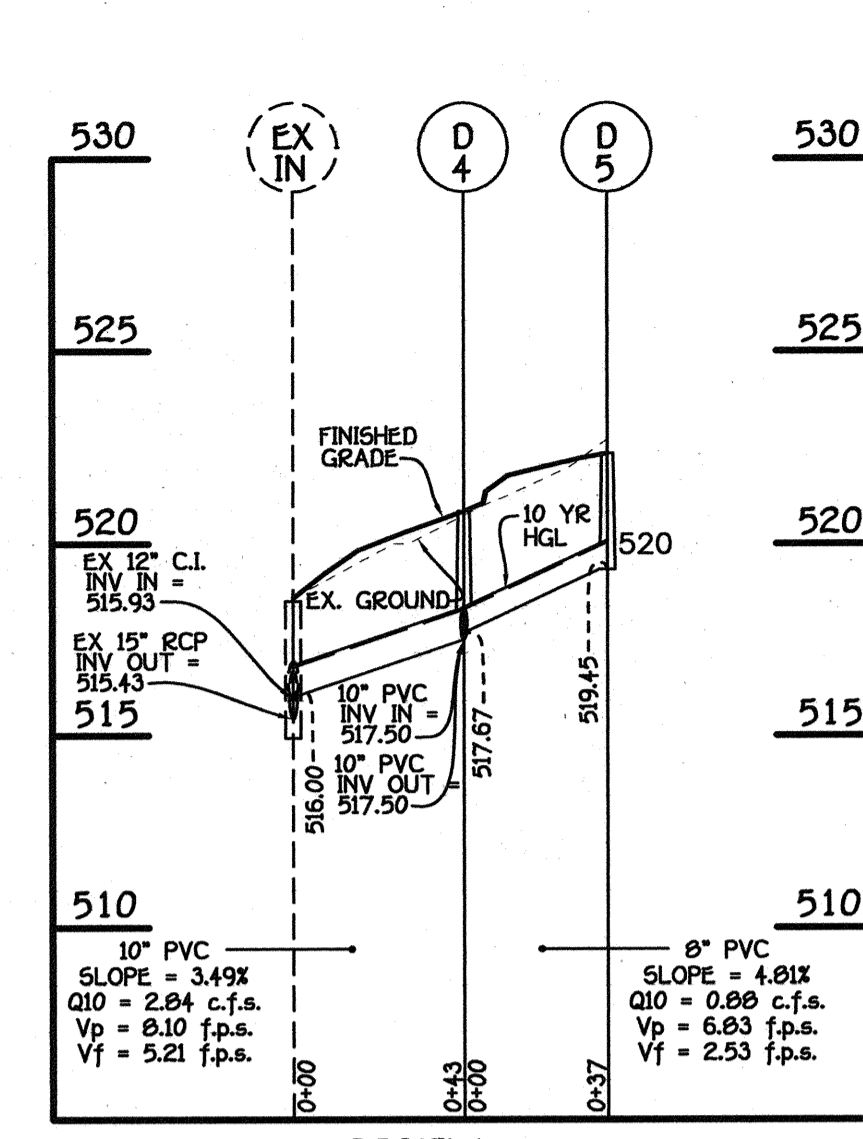
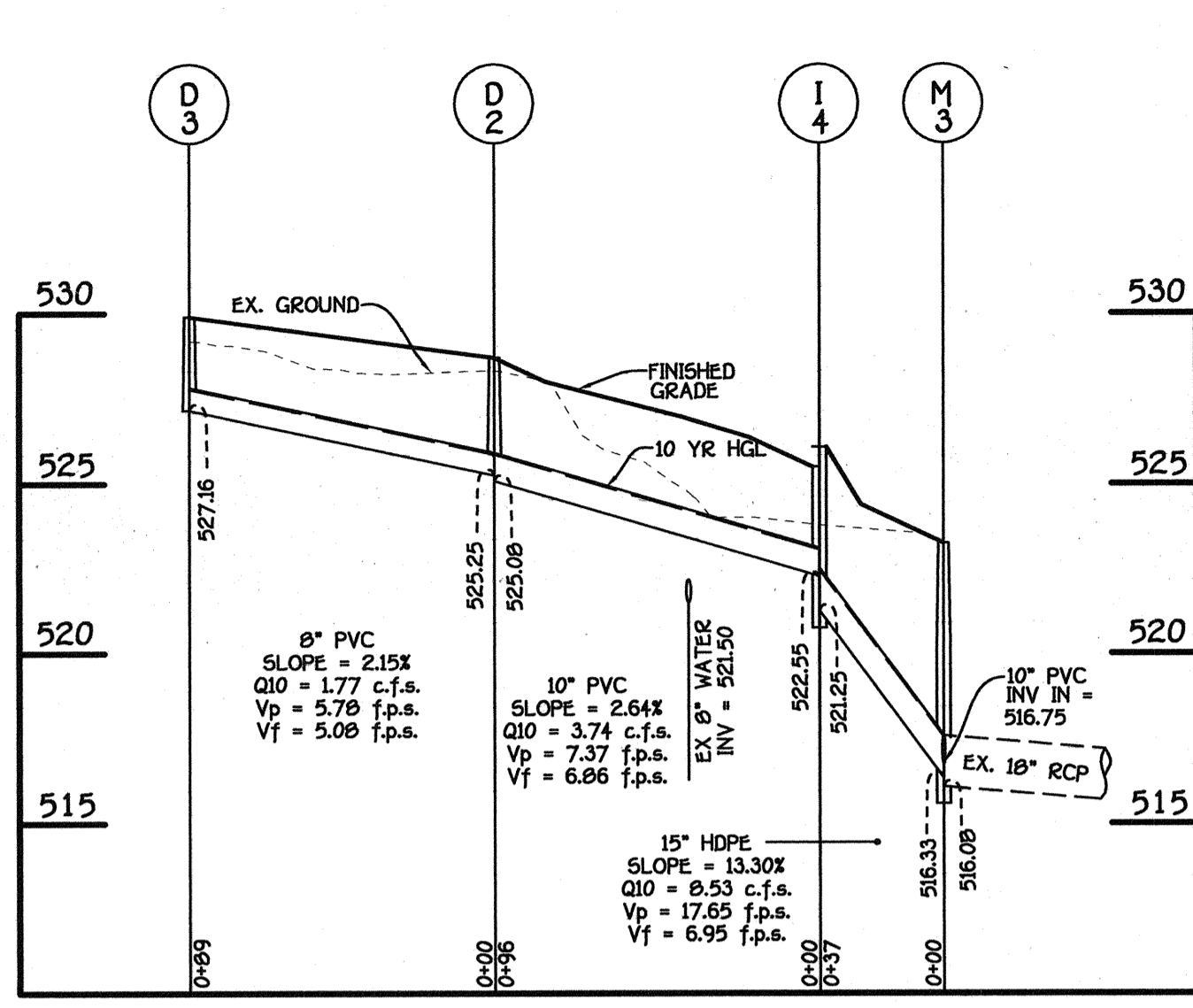
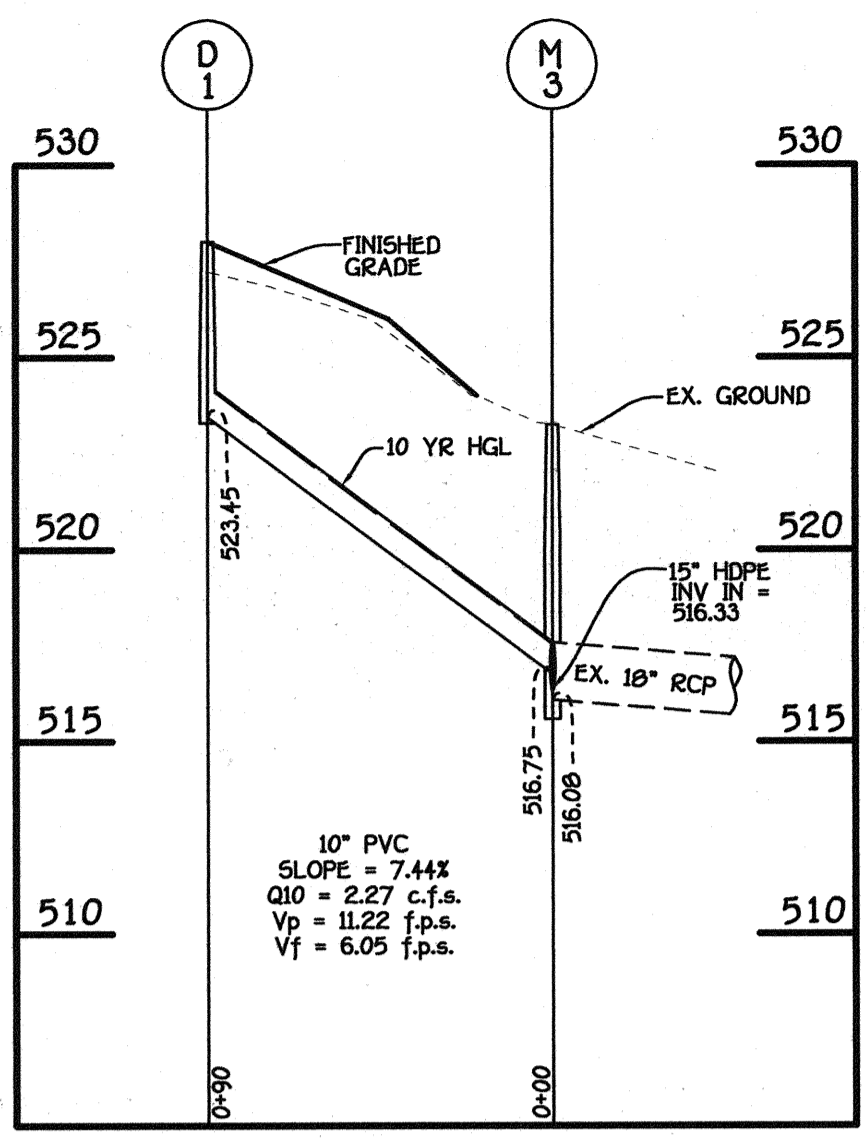
TAX MAP No.: 30 PARCEL No.: 31
 SECOND ELECTION DISTRICT HOWARD COUNTY, MARYLAND
 SCALE: AS SHOWN DATE: OCTOBER, 2003

SHEET 10 OF 13

No.	Revision	Date
1	Added concrete walks, curbs and utility lines	11-19-04

NO.	NORTHING	EASTING	RIM ELEVATION *
100	568290.78	1365040.92	524.30
200	568298.00	1365081.94	524.10

* SET MH RIMS FLUSH W/ PROPOSED FINISHED GRADE

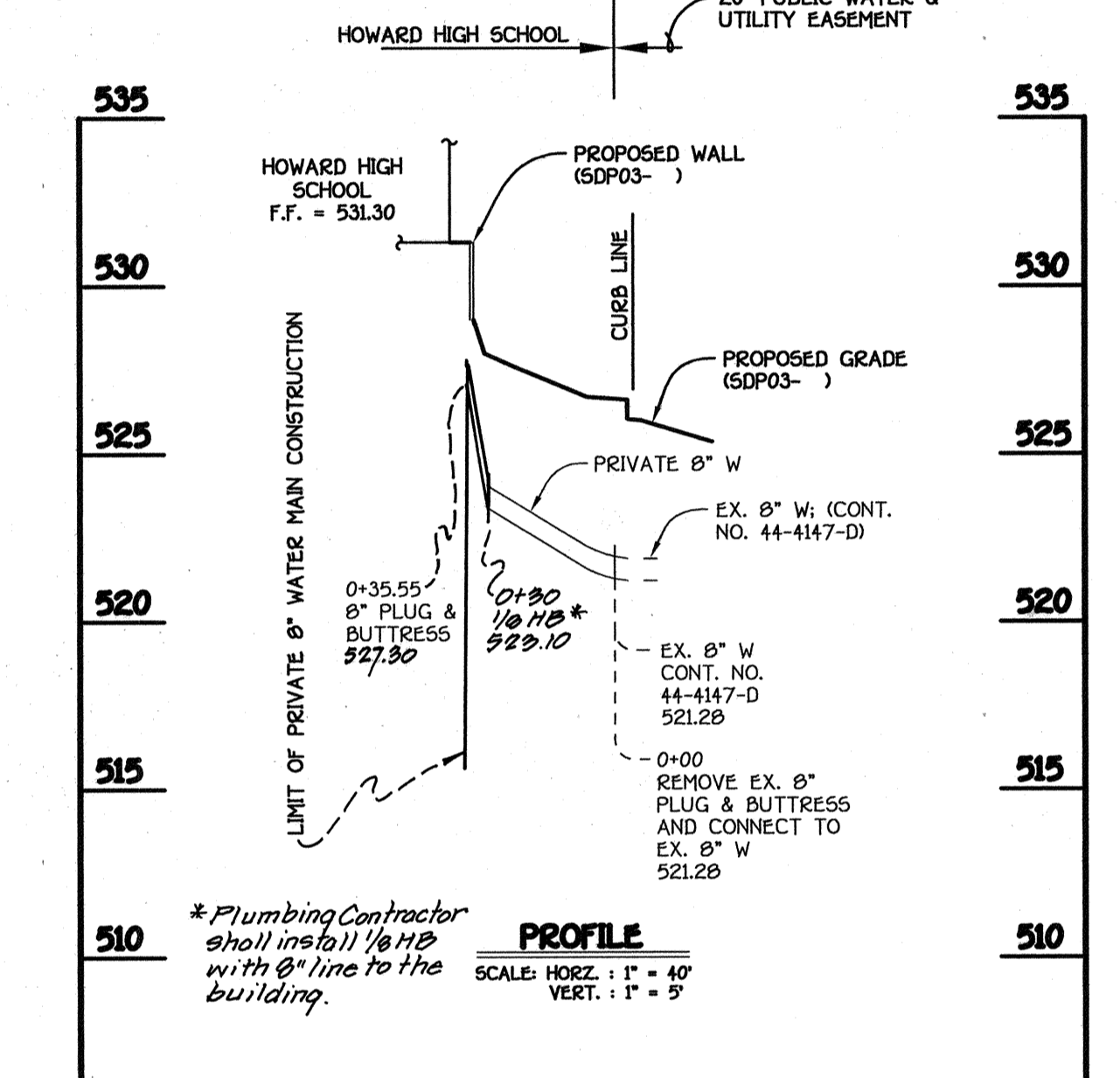
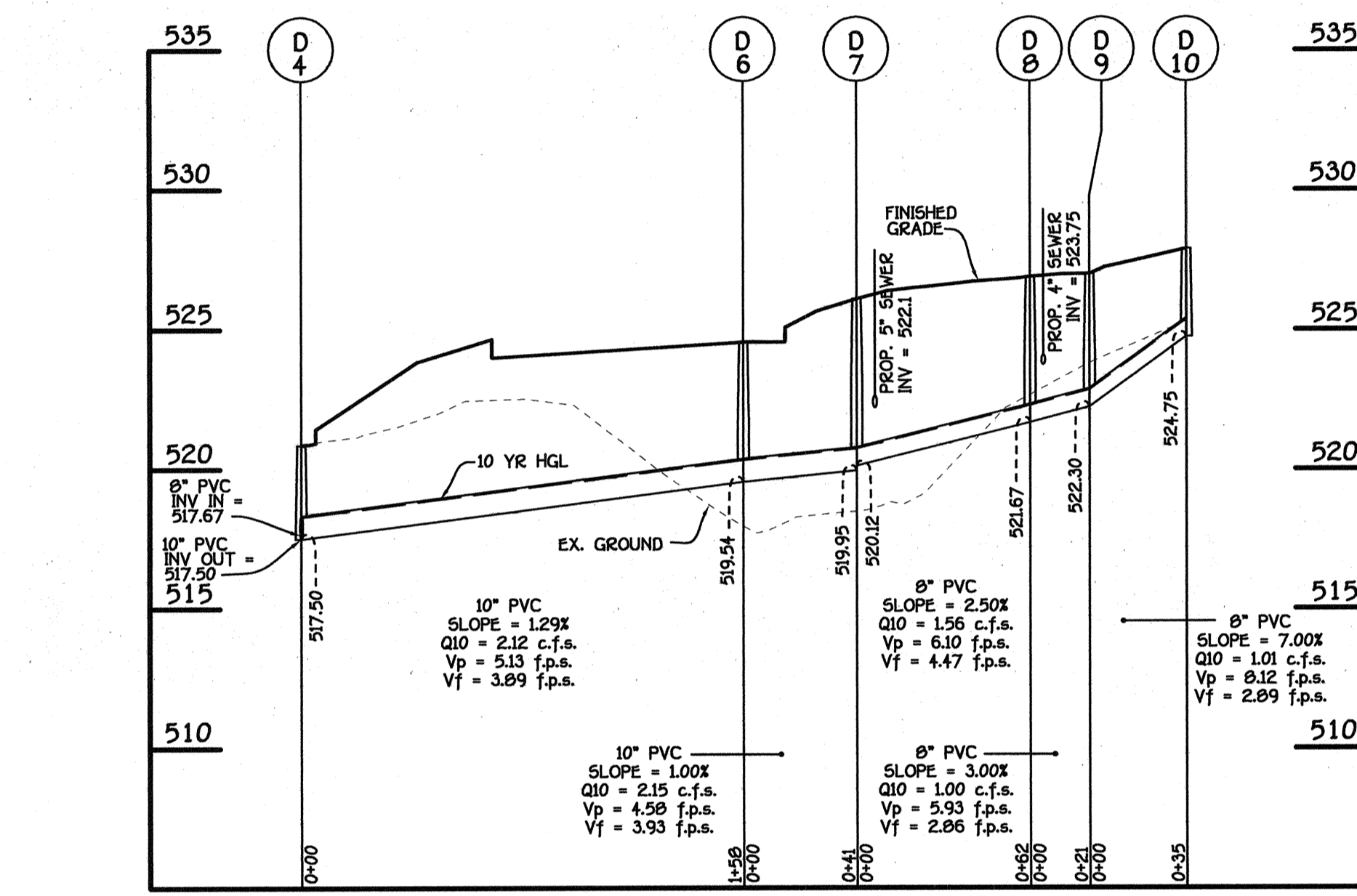
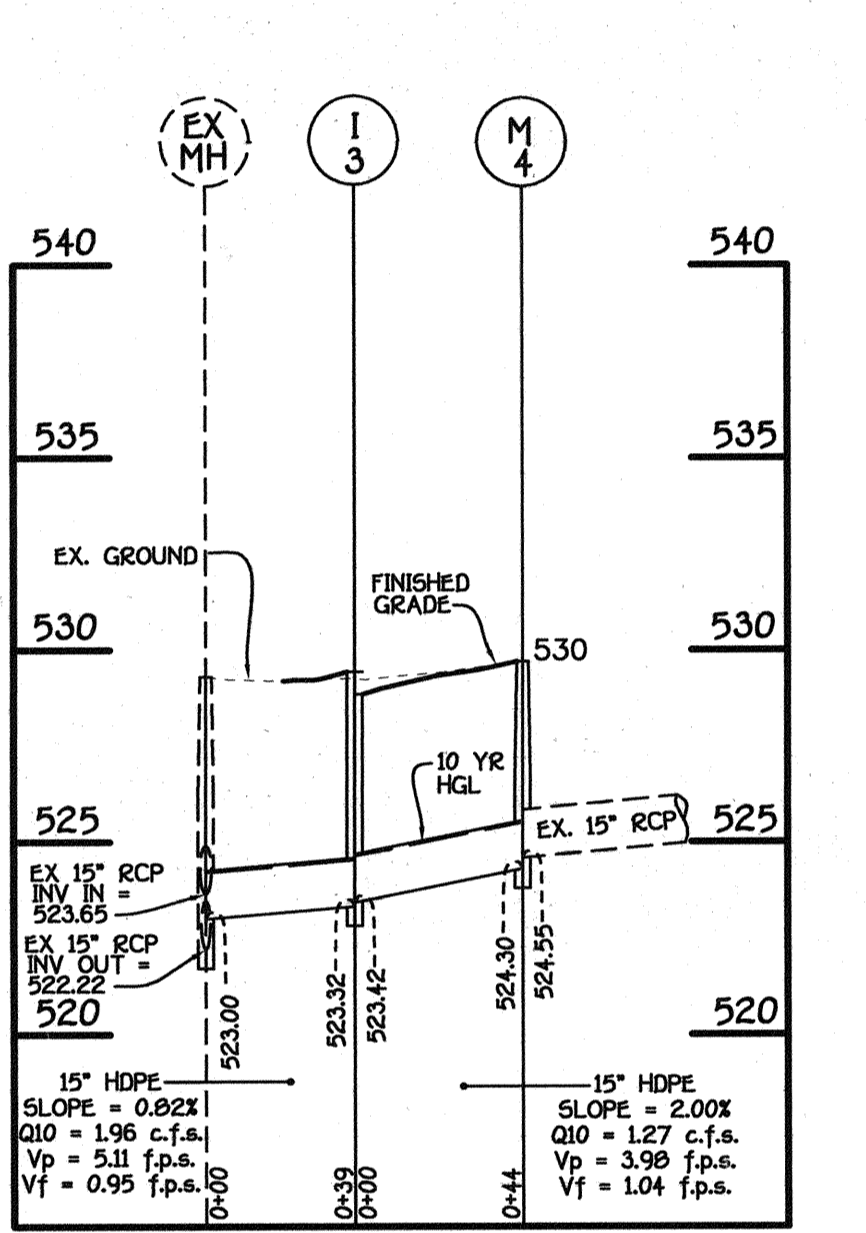


PROFILE
SCALE: 1" = 50' HORIZ.
1" = 5' VERT.

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

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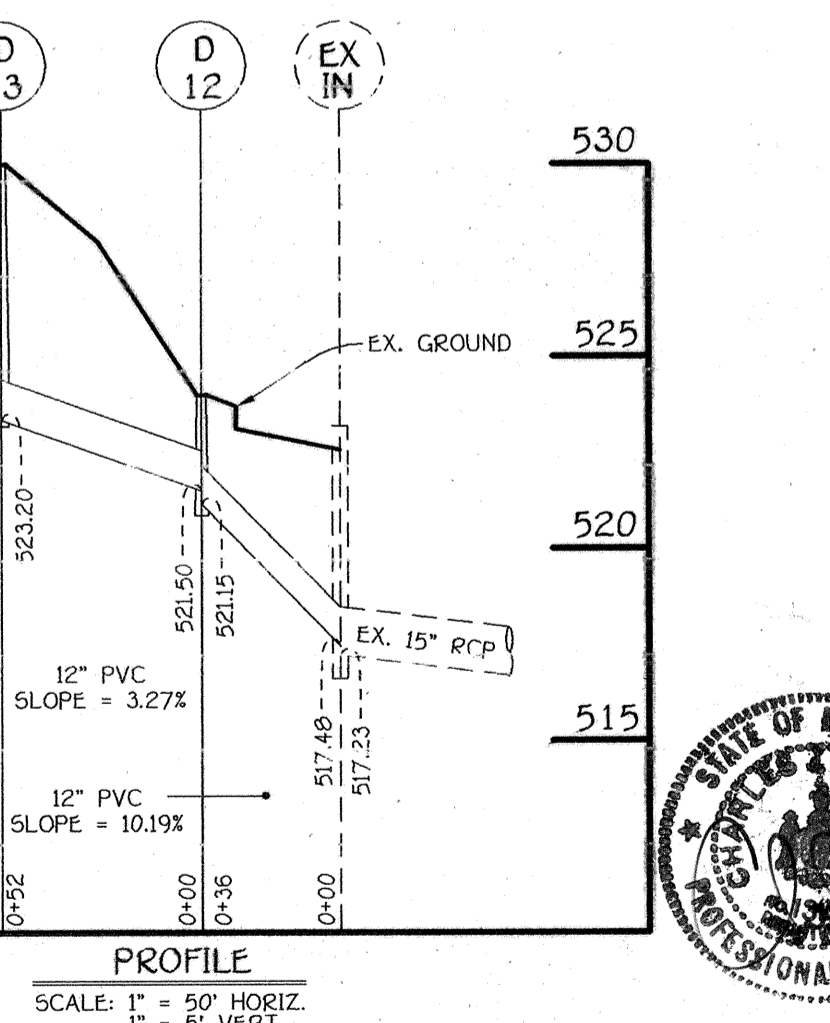
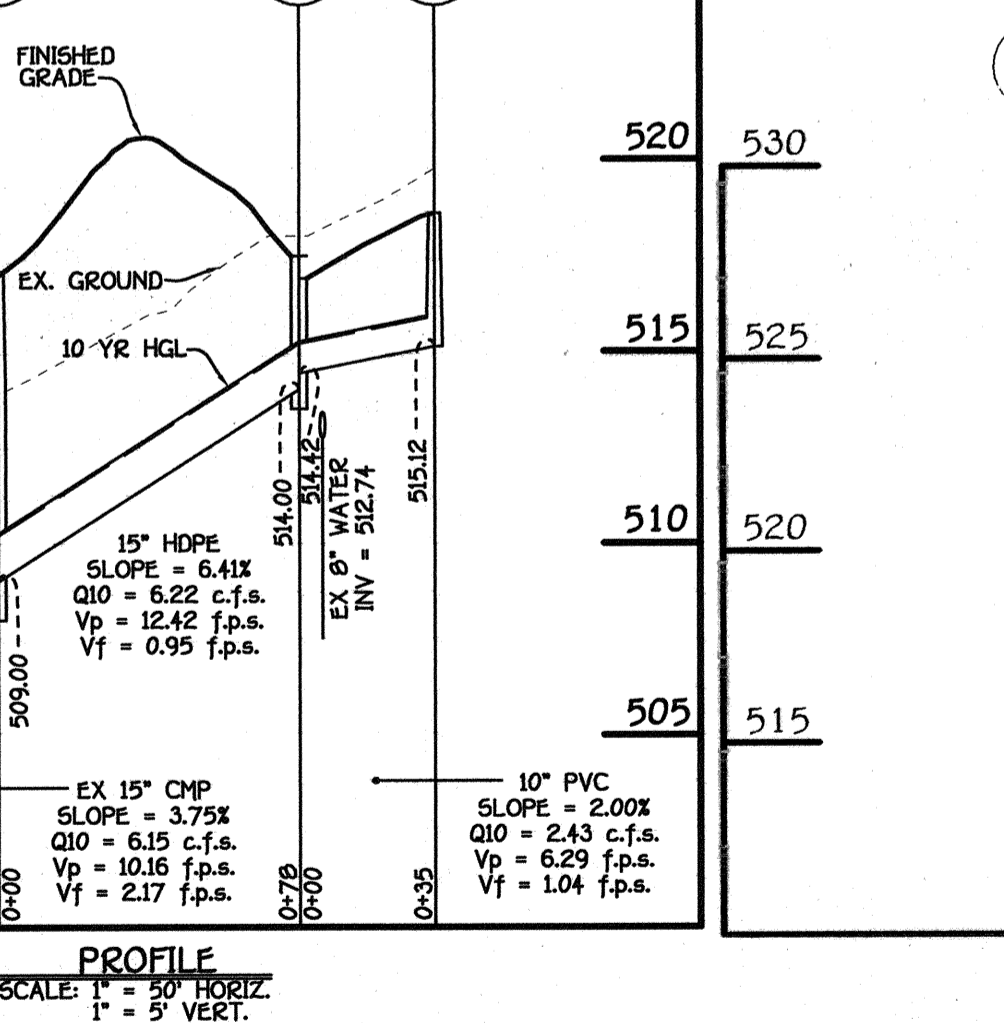
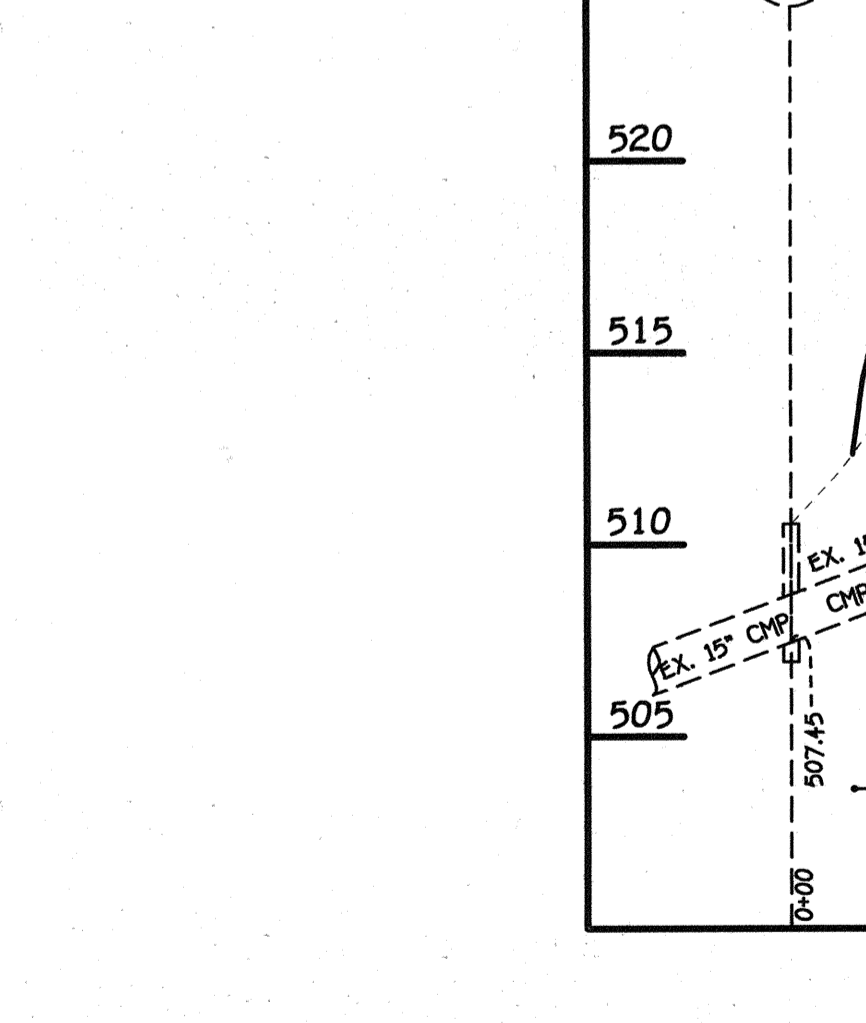
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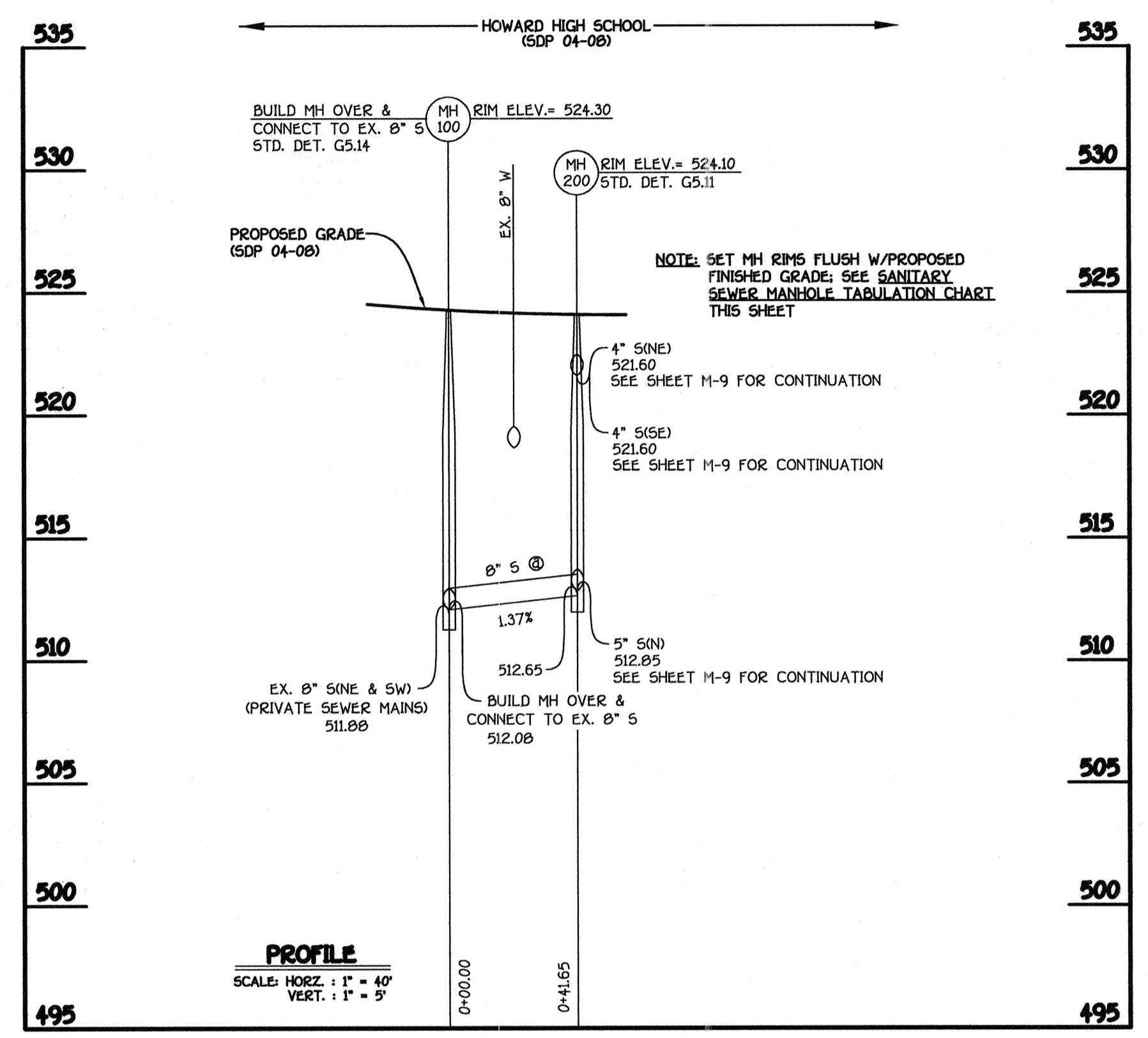
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PROFILE
SCALE: 1" = 50' HORIZ.
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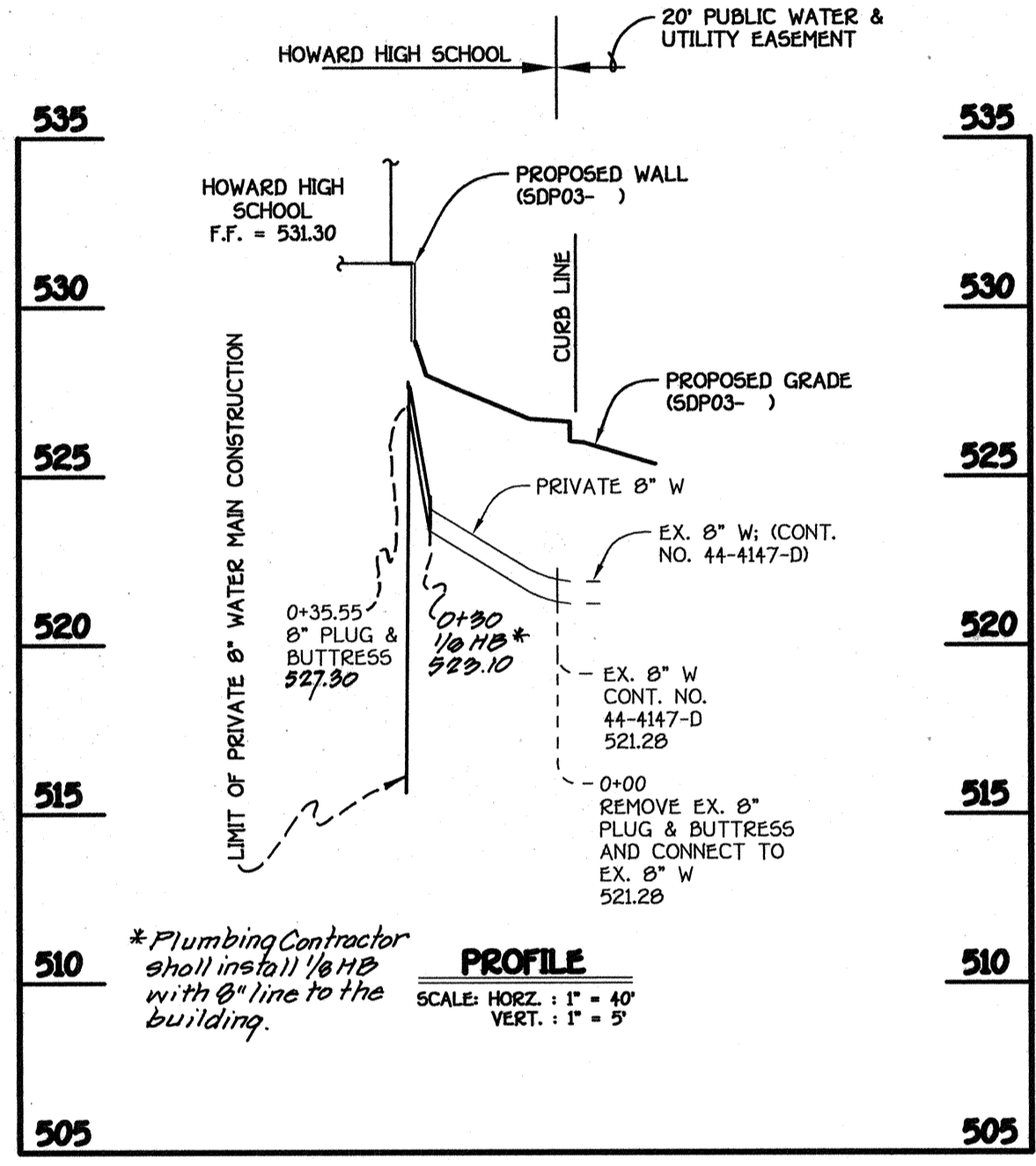
PROFILE
SCALE: 1" = 50' HORIZ.
1" = 5' VERT.

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



PROFILE
SCALE: HORIZ. 1" = 40'
VERT. 1" = 5'

8" PRIVATE SEWER: MH #100 TO MH #200



8" PRIVATE WATER MAIN

PIPE SCHEDULE

SIZE	MATERIAL	LENGTH
8"	PVC	244'
10"	PVC	463'
15"	HDPE	220'

STRUCTURE SCHEDULE

STRUCTURE	TOP ELEVATION	INVERT IN	INVERT OUT	COORDINATES	TYPE	REMARKS
D-1	528.00	---	523.45	N 567935.26, E 1365747.36	DOWN SPOUT DRAIN	10" PVC CLEAN OUT PIPE
D-2	528.70	525.25	525.00	N 567806.97, E 1365694.19	DOWN SPOUT DRAIN	10" PVC CLEAN OUT PIPE
D-3	529.90	---	527.16	N 567738.74, E 1365636.40	DOWN SPOUT DRAIN	8" PVC CLEAN OUT PIPE
D-4	520.85	517.50 / 517.67	517.50	N 568124.53, E 1365063.34	DOWN SPOUT DRAIN	10" PVC CLEAN OUT PIPE
D-5	523.50	---	519.45	N 568130.71, E 1365100.16	DOWN SPOUT DRAIN	8" PVC CLEAN OUT PIPE
D-6	524.55	519.54	519.54	N 568280.36, E 1365037.20	DOWN SPOUT DRAIN	10" PVC CLEAN OUT PIPE
D-7	526.10	520.12	519.95	N 568287.07, E 1365077.24	DOWN SPOUT DRAIN	8" PVC CLEAN OUT PIPE
D-8	526.90	521.67	521.67	N 568297.34, E 1365138.43	DOWN SPOUT DRAIN	8" PVC CLEAN OUT PIPE
D-9	527.00	522.30	522.30	N 568300.84, E 1365159.33	DOWN SPOUT DRAIN	8" PVC CLEAN OUT PIPE
D-10	527.90	---	524.75	N 568266.59, E 1365165.07	DOWN SPOUT DRAIN	8" PVC CLEAN OUT PIPE
D-11	518.60	---	515.12	N 568360.87, E 1365111.16	DOWN SPOUT DRAIN	10" PVC CLEAN OUT PIPE
I-1	517.70	514.45	514.25	N 568031.79, E 1365096.11	10" INLET	S.D. 4.39
I-2	517.45	514.42	514.00	N 568367.53, E 1365076.67	PRECAST STD A-5	S.D. 4.40
I-3	523.43	523.42	523.32	N 567872.70, E 1365426.16	PRECAST STD A-5	S.D. 4.40
I-4	528.08	522.55	521.25	N 567851.74, E 1365779.27	PRECAST STD A-5	S.D. 4.40
I-5	527.53	---	522.50	N 567644.17, E 1365525.69	PRECAST STD A-5	S.D. 4.40
M-1	519.60	513.50 / 513.70	513.27	N 568052.28, E 1365066.78	PRECAST 4' DIA.	G 5.12
M-2	517.00	509.00	508.50	N 568334.84, E 1365012.79	PRECAST 4' DIA.	G 5.12
M-3	523.25	516.33 / 516.75	516.08	N 567871.17, E 1365010.09	PRECAST 4' DIA.	G 5.12
M-4	529.70	---	524.30	N 567845.56, E 1365463.81	PRECAST 4' DIA.	G 5.12

* - DENOTES THROAT ELEVATION

ENGINEER'S CERTIFICATE

I hereby certify that this plan for Erosion and Sediment Control Represents a Practical and Workable Plan Based on My Personal Knowledge of the Site Condition and That It was Prepared in Accordance with the Requirements of the Howard Soil Conservation District.

[Signature]
Signature of Engineer
10/28/03
Date

DEVELOPER'S CERTIFICATE

"I/We Certify That All Development and Construction Will be Done According to This Plan of Development and Plan for Erosion and Sediment Control and That All Responsible Personnel Involved in the Construction Project Will Have a Certificate of Attendance at a Department of Natural Resources Approved Training Program for the Control of Sediment and Erosion before Beginning the Project. I also authorize Periodic On-Site Inspection by the Howard Soil Conservation District or their Authorized Agents, as are Deemed Necessary."

[Signature]
Dr. William Brown, Director School Planning and Construction
10-21-03
Date

APPROVED: DEPARTMENT OF PLANNING AND ZONING

[Signature]
Director - Department of Planning and Zoning
11/10/03
Date

[Signature]
Chief, Division of Land Development
11/6/03
Date

[Signature]
Chief, Development Engineering Division
11/4/03
Date

PREPARED FOR:

HOWARD COUNTY PUBLIC SCHOOL SYSTEM
10910 Maryland Route 108
Ellicott City, Maryland 21042
Attention Cathleen Young

Address Chart

Parcel Number	Street Address
P. 31	8700 OLD ANNAPOLIS ROAD

STORM DRAIN PROFILES AND WATER PROFILE

HOWARD HIGH SCHOOL
BUILDING ADDITIONS AND
PARKING LOT ADDITION

TAX MAP No: 30 PARCEL No: 31
SECOND ELECTION DISTRICT HOWARD COUNTY, MARYLAND
SCALE: AS SHOWN DATE: OCTOBER, 2003



Reviewed for Howard County Soil Conservation District and Meets Technical Requirements.

Approved: This Development is Approved for Erosion and Sediment Control by the Howard Soil Conservation District.

SMOLEN, EMR AND ASSOCIATES, ARCHITECTS
11820 PARKLAWN DRIVE SUITE 404
ROCKVILLE, MARYLAND 20852
(301) 770-0177

PROJECT

HOWARD HIGH SCHOOL	SECTION/AREA	PARCEL
BLOCK NO. 10	N/A	31
ZONE R-20	ELEC. DIST. SECOND	CENSUS TR. 6023.02
TAX/MAP 30	SEWER CODE	5657400
DEED REF. 220/239 5276/722	WATER CODE G07	

SHEET 11 OF 13

SCHEDULE A PERIMETER LANDSCAPE EDGE		
CATEGORY	PERIMETER EDGE	
	P-1	P-2
LANDSCAPE TYPE	A	C
LINEAR FEET OF ROADWAY FRONTAGE/PERIMETER	289	55
CREDIT FOR EXISTING VEGETATION (YES, NO LINEAR FEET) (DESCRIBE BELOW IF NEEDED)	-	-
CREDIT FOR WALL, FENCE OR BERM (YES, NO LINEAR FEET) (DESCRIBE BELOW IF NEEDED)	-	-
NUMBER OF TREES REQUIRED		
SHADE TREES	5	2
EVERGREEN TREES	-	3
SHRUBS	-	-
NUMBER OF TREES PROVIDED	5	5

SCHEDULE B PARKING LOT INTERNAL LANDSCAPING		
NUMBER OF PARKING SPACES	8	
NUMBER OF TREES REQUIRED	1	
NUMBER OF TREES PROVIDED	7	

No.	Revisions	Date
1	Added concrete walks, canopies and utility lines	11/19/03
2	Added driveway & chain link fence at the back of the school	11/18/03

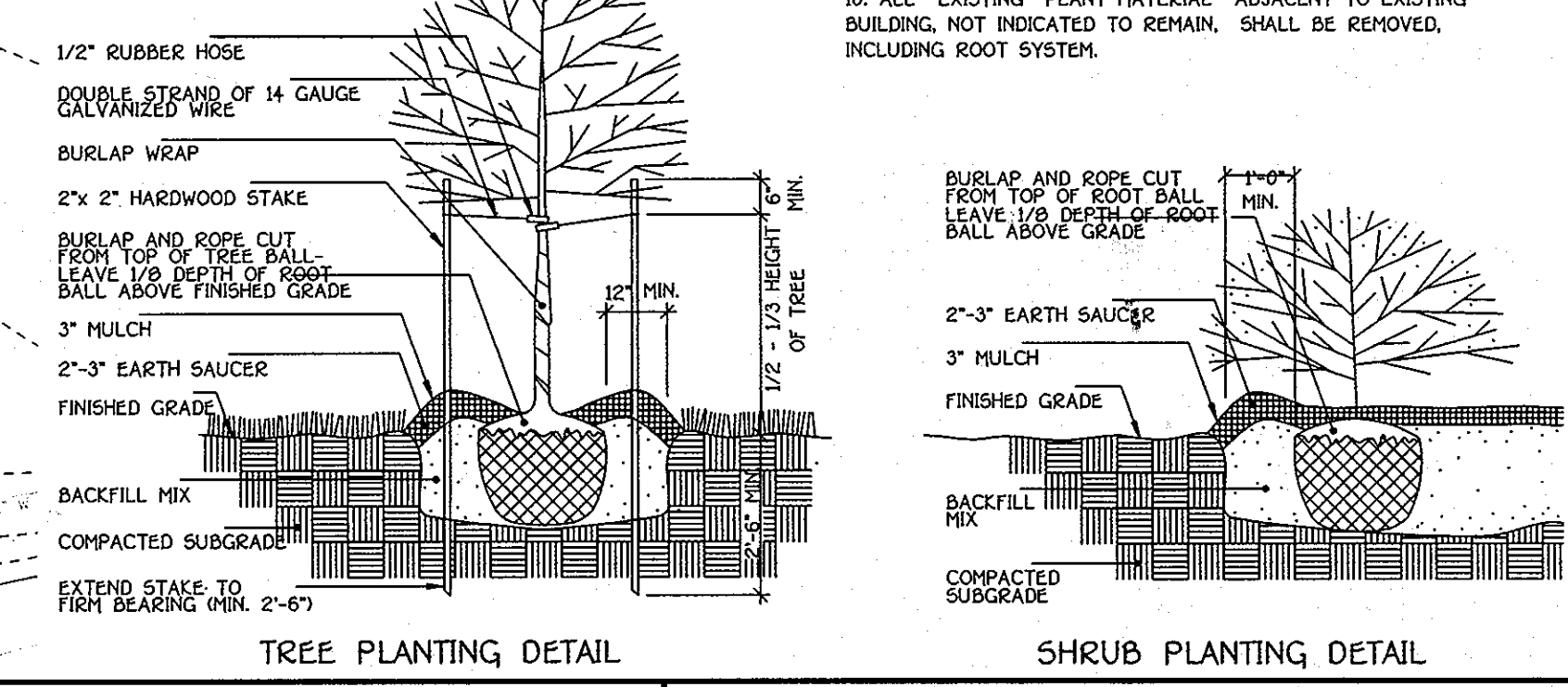
- PLANTING NOTES:**
- THIS PLAN IS TO BE USED FOR PLANTING ONLY.
 - CONTRACTOR SHALL NOTIFY ALL UTILITIES AT LEAST FIVE (5) DAYS BEFORE STARTING WORK. ALL GENERAL NOTES FROM SHEET (D), SHALL APPLY.
 - FIELD VERIFY UNDERGROUND UTILITY LOCATIONS AND EXISTING CONDITIONS BEFORE STARTING PLANTING WORK. EVEN WHERE PLANT LOCATIONS ARE DIMENSIONED, CONTACT CONSTRUCTION MANAGER IF ANY RELOCATIONS ARE REQUIRED.
 - PLANT QUANTITIES SHOWN ON PLANT LIST ARE PROVIDED FOR THE CONVENIENCE OF THE CONTRACTOR ONLY. IF DISCREPANCIES EXIST BETWEEN QUANTITIES SHOWN ON THE PLAN AND THOSE SHOWN ON THE PLANT LIST, THE QUANTITIES ON THE PLAN SHALL TAKE PRECEDENCE.
 - ALL PLANT MATERIALS SHALL BE FULL AND HEAVY, BE WELL FORMED AND SYMMETRICAL CONFORM TO THE A.M. SPECIFICATIONS, AND BE INSTALLED IN ACCORDANCE WITH PROJECT SPECIFICATIONS.
 - ALL AREAS DISTURBED BY CONSTRUCTION ACTIVITIES BUT NOT OTHERWISE PLANTED, PAVED OR MULCHED SHALL BE SEEDED IN ACCORDANCE WITH PROJECT SPECIFICATIONS.
 - ALL EXPOSED EARTH WITHIN THE LIMITS OF THE PLANTING BEDS SHALL BE MULCHED WITH SHREDDED MULCH PER PLANTING DETAILS.
 - THE CONTRACTOR SHALL NOTIFY THE OWNER IN WRITING IF SOIL OR DRAINAGE CONDITIONS ARE ENCOUNTERED WHICH MAY BE DETRIMENTAL TO THE GROWTH OF PLANTS.
 - ANY EXISTING PLANT MATERIAL INDICATED TO REMAIN, WHICH IS DAMAGED BY CONSTRUCTION OPERATIONS, SHALL BE REPLACED WITH NEW PLANT MATERIAL OF SAME SPECIES AND SIZE. NEW MATERIAL SHALL BE SUBJECT TO SAME GUARANTEE AS ALL NEW PLANT MATERIAL.
 - ALL EXISTING PLANT MATERIAL ADJACENT TO EXISTING BUILDING, NOT INDICATED TO REMAIN, SHALL BE REMOVED, INCLUDING ROOT SYSTEM.

SWM SUMMARY TABLE

Type of Requirement	Volume Required	Volume Provided & Notes
Revol (Required for Site Area 2 only)	0.202 acres or 0.0176 acres-feet	0.0186 ac-ft. w/ Volume Method within bottom of Dry Swale
WQvol		0.037 within Dry Swale and Provided over 20% Reduction
Study/Site Area * 1	N/A	
Study/Site Area * 2	0.068 acre-feet	0.031 within ex. BMP facility
Study/Site Area * 3	N/A	Provided over 20% Reduction
Study/Site Area * 1	N/A	As per Redevelopment Criteria
Study/Site Area * 2	N/A	As per Redevelopment Criteria
Study/Site Area * 3	N/A	As per Redevelopment Criteria

PLANT SCHEDULE

KEY	SYMBOL	BOTANICAL NAME/ COMMON NAME	SIZE/COND.	REMARKS	QUANTITY
TREES					
AR	○	ACER RUBRUM 'OCTOBER GLORY' / RED MAPLE	2.5" - 3" CAL., B&B	CENTRAL LEADER	26
CL	○	CLADRATIS LUTEA / YELLOWWOOD	2.5" - 3" CAL., B&B	CENTRAL LEADER	11
FA	○	FRAXINUS AMERICANA 'AUTUMN PURPLE' / ASH	2.5" - 3" CAL., B&B	CENTRAL LEADER	15
GB	○	GINKGO BILOBA 'FASTIGIATA' / MALE COLUMNAR GINKGO	2.5" - 3" CAL., B&B	CENTRAL LEADER	6
GT	○	GLEDITSIA TRIACANTHOS 'SHADEMASTER' / HONEYLOCUST	2.5" - 3" CAL., B&B	SPECIMEN	1
LC	○	LAGERSTROEMIA 'COMANCHE' / CREPE MYRTLE	8' HT., B&B	SPECIMEN	8
MS	○	MAGNOLIA STELLATA / STAR MAGNOLIA	6' HT., B&B	SPECIMEN	7
IN	○	ILEX 'NELLIE R. STEVENS' / HOLLY	6' HT., B&B	SPECIMEN	3
PY	○	PRUNUS x YEDOENSIS 'YOSHINO' / YOSHINO CHERRY	8' HT., B&B	SPECIMEN	21
TG	○	THUJA x 'GREEN GIANT' / ARBORVITAE	8' HT., B&B	SPECIMEN	1
SHRUBS					
PL	○	PRUNUS LAUROCERASUS 'OTTO LUYKEN' / CHERRY LAUREL	30" HT., CONT.	HEAVY	22
JB	○	JUNIPERUS SABINA 'BROADMOOR' / BROADMOOR JUNIPER	24" SPR., CONT.	HEAVY	105
GROUNDCOVER					
LS	○	LIRIOPE SPICATA / SPREADING LIRIOPE	1 QT., CONT.	12" O.C.	764



ENGINEER'S CERTIFICATE

I hereby certify that this plan for Erosion and Sediment Control represents a Practical and Workable Plan Based on My Personal Knowledge of the Site Condition and That it was Prepared in Accordance with the Requirements of the Howard Soil Conservation District.

[Signature]
Signature of Engineer
10/31/03
Date

Reviewed for Howard County Soil Conservation District and Meet Technical Requirements.
U.S.D.A. - Natural Resources Conservation Service
Date

DEVELOPER'S CERTIFICATE

I/We certify that all development and construction will be done according to this plan of development and plan for erosion and sediment control and that all responsible personnel involved in the construction project will have a Certificate of Attendance at a Department of Natural Resources Approved Training Program for the Control of Sediment and Erosion before beginning the project. I also authorize periodic on-site inspection by the Howard Soil Conservation District or their authorized agents, as are deemed necessary.

[Signature]
Dr. William Brown, Director School Planning and Construction
10-31-03
Date

Approved: This Development is Approved for Erosion and Sediment Control by the Howard Soil Conservation District.
[Signature]
District Howard Soil Conservation Dist.
Date

APPROVED: DEPARTMENT OF PLANNING AND ZONING

[Signature]
Director - Department of Planning and Zoning
11/10/03
Date

[Signature]
Chief, Division of Land Development
11/16/03
Date

[Signature]
Chief, Development Engineering Division
11/14/03
Date

PREPARED FOR:
HOWARD COUNTY PUBLIC SCHOOL SYSTEM
10910 Maryland Route 108
Ellicott City, Maryland 21042
Attention Cathleen Young

SMOLEN, EMR AND ASSOCIATES, ARCHITECTS
11820 PARKLAWN DRIVE SUITE 404
ROCKVILLE, MARYLAND 20852
(301) 770-0177

Address Chart

Parcel Number	Street Address
P. 31	8700 OLD ANNAPOLIS ROAD

DEED RECORDATION REFERENCE
220/239 5276/722

PROJECT	SECTION/AREA	PARCEL
HOWARD HIGH SCHOOL	N/A	31
DEED REF. 220/239 5276/722	ELEC. DIST. SECOND	CENSUS TR. 6023.02
WATER CODE G07	TAX/MAP 30	SEWER CODE 5657400

LANDSCAPE PLAN

**HOWARD HIGH SCHOOL
BUILDING ADDITIONS AND
PARKING LOT ADDITION**

TAX MAP No: 30
SECOND ELECTION DISTRICT
SCALE: AS SHOWN

PARCEL No: 31
HOWARD COUNTY, MARYLAND
DATE: OCTOBER, 2003

SHEET 13 OF 13