

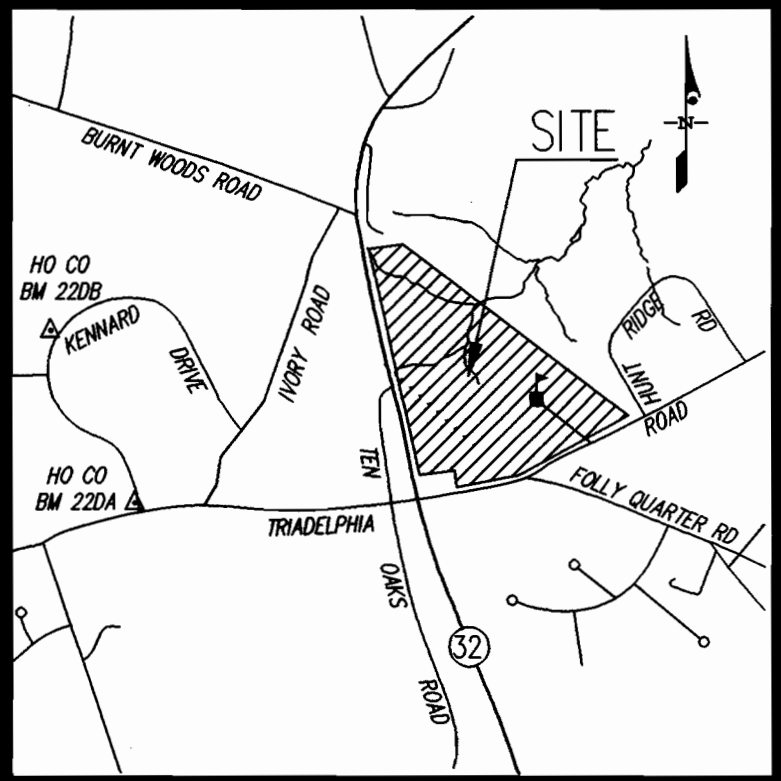
**GENERAL NOTES**

- All construction shall be in 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) 313-1880 at least five (5) working days prior to the start of work.
- The contractor shall notify "Miss Utility" at 1-800-257-7777 at least 48-hours prior to any excavation work.
- Project Background:  
 Location: Tax Map 22, on Triadelphia Road east of Md. Rte. 32  
 Zoning: RR-DEO  
 Election District: 3rd Election District  
 Section/Area: N/A  
 Site Area: 78.665± AC (Gross)  
 Approved Name and DPZ Ref. File Nos.:  
 -Previously approved SDP-97-46, WP-02-21 and GP-02-45  
 -WP-02-55 (approved on 1/15/02 to waive Section 16.156 (j) and (k) and extended the processing deadline for SDP-01-122 from 12/22/01 until 6/22/02)  
 -WP-02-77 waives to SDP for entrance drive
- 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 the 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 radially between items unless otherwise noted.
- Existing topography and features were surveyed by Schmid, Pletz & McDonald, Inc. February 1996, SDP-97-46 and from GP-02-45.
- Coordinates are based on NAD '83 Maryland Coordinate System as projected by Howard County Geodetic Control Station Numbers 22DA & 22DB.
- The middle school shall be served by private well and septic. Well(s) must be drilled and approved by the Health Department (prior to bidding and issuance of bldg. permit).
- Stormwater Management is provided by an existing on-site private retention facility that was constructed under SDP-97-46. It is to be privately maintained.
- All on-site storm drains proposed under this SDP are private.
- The existing utilities shown herein were derived from available public records. The contractor must dig test pits, by hand, at all utility crossings and connection points to verify exact location.
- All proposed ramps shall be in accordance with current A.D.A. Standards. Maximum sidewalk cross slope shall be (2%) to percent. Provide a (5'x5') five foot by five foot level (2% max.) landing area at the top and bottom of all ramps and building entrances and exits.
- All driveways and parking to be owned and maintained by Howard County Public School System.
- Any damage to County & State owned right-of-way to be corrected at the contractor's expense.
- Trench bedding for storm drainage structures shall be in accordance with Howard County Standard G2.01. 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.
- All curb fillets are 5' radius unless noted otherwise. Spot elevations along curb line are at the flow line, unless noted otherwise.
- For details of building profile, parking, paving sections, handicap ramps, and curb/gutter see Sheet Nos. 5 & 6.
- There are no known grave sites or cemeteries on this site.
- Other topics related to this site:  
 - 85th Percentile Speed report prepared by The Traffic Group dated February 28, 2001.  
 - Subsurface Exploration and Geotechnical Evaluation by E.C.S., Ltd. dated March 9, 2001.  
 - This SDP is grandfathered to the Fourth Edition of the Subdivision and Land Development Regulations.
- See SDP-97-46 for wetland and forest stand delineation.
- All outside lighting shall comply with Zoning Regulation Section 134 which requires lights to be installed to direct/reflect light downwards and inwards on site away from all adjoining public streets and residential areas. Site lighting fixtures shall be furnished with up four 400 watt high pressure sodium lamps on 30 ft. dark bronze aluminum poles as manufactured by Hi-Tek, Enco, Hubbell or Kim. Single 400 and 250 watt high pressure sodium lamps on 20 ft. poles shall be provided at walkways to the adjacent elementary school. For additional information, see electrical drawing sheet E-1 to be submitted with Building Permit Submission package.
- For the disturbance to the wetlands and the associated 25' buffer to construct the sanitary line shown on these SDP drawings see MDE tracking number: HO Public School - Western MS#3 - Utility Line, 200163705 and Army Corps application No. 200163705.
- The Forest Conservation Easements on this plan have been established to fulfill the requirements of Section 16.1200 of the Howard County Code, Forest Conservation Act. No clearing, grading or construction is permitted within the Forest Conservation Easements; however, the initial grading to develop the Western Middle School No.3 per this SDP and forest management practices as defined in the Deed of Forest Conservation Easement are allowed. See Plot of Forest Conservation Easement for this site filed under this SDP number and recorded as Plat No. 15153 on 3-25-02.  
 The Forest Conservation obligation for the development of the Middle School under this SDP and for the previous minor clearing under a "Declaration of Intent" dated Jan. 17, 1997 to develop the elementary school under SDP-97-46 is fulfilled by recording a total of 23.17 acres of forest conservation easement area which comprises of:  
 19.82 acres of forest retention outside the 100-yr flood plain.  
 2.81 acres of forest retention inside the 100-yr flood plain.  
 0.54 acres of natural regeneration area adjacent to the woodland.  
 No reforestation planting is required since clearing is above the break even point. See sheets 22-24 and 26 for additional information.
- No clearing, grading or construction is permitted within the wetlands, streams or their required buffers, except for the sanitary sewer line which was determined to be an essential utility line disturbance in accordance with Section 16.116(c) of the Subdivision and Land Development Regulations.

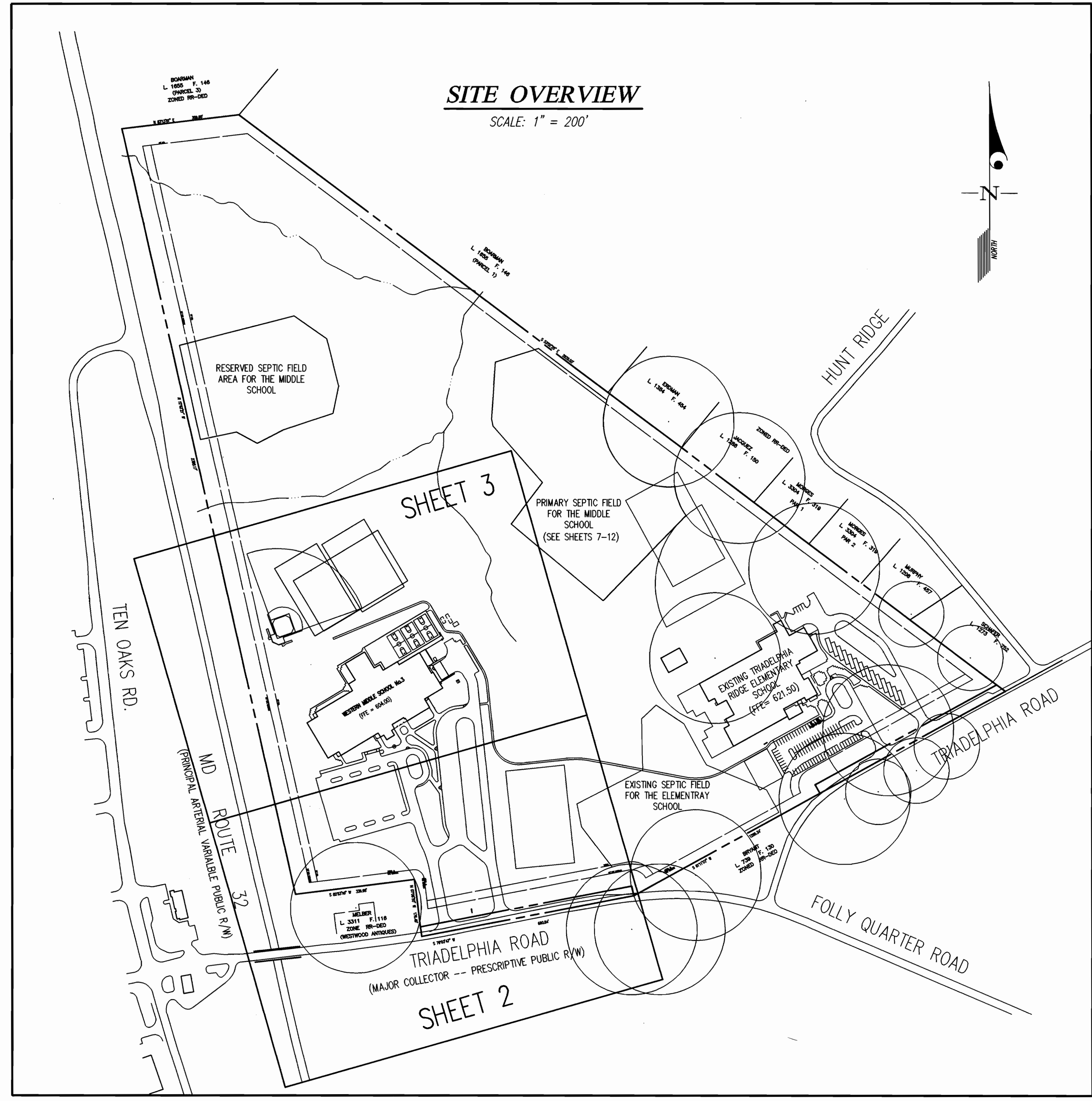
# WESTERN MIDDLE SCHOOL No.3

## THIRD ELECTION DISTRICT

### HOWARD COUNTY, MARYLAND



VICINITY MAP  
SCALE: 1" = 2000'



SITE OVERVIEW  
SCALE: 1" = 200'

**SHEET INDEX**

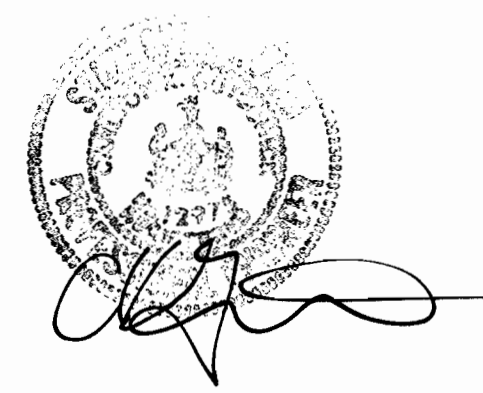
- COVER SHEET
- SITE DEVELOPMENT PLAN
- SITE DEVELOPMENT PLAN
- SITE DETAILS
- SITE DETAILS
- SITE DETAILS
- SEPTIC SYSTEM SITE PLAN (WRA's C-1)
- SEPTIC SYSTEM PROFILES (WRA's C-2)
- SEPTIC SYSTEM DETAILS (WRA's C-3)
- SEPTIC SYSTEM DETAILS (WRA's C-4)
- SEPTIC SYSTEM DETAILS (WRA's C-5)
- SEPTIC SYSTEM SEDIMENT CONTROL PLAN (WRA's C-6)
- SEDIMENT CONTROL OVERVIEW
- SEDIMENT & EROSION CONTROL PLAN
- SEDIMENT & EROSION CONTROL PLAN
- SEDIMENT CONTROL NOTES & DETAILS
- SEDIMENT CONTROL NOTES & DETAILS
- STORM DRAIN PROFILES & SCHEDULES
- STORM DRAIN/UTILITY PROFILES, SCHEDULES & DETAILS
- DRAINAGE AREA MAP (STORM DRAIN)
- DRAINAGE AREA MAP (SWM)
- LANDSCAPE EDGE ANALYSIS & FOREST CONSERVATION OVERVIEW
- FOREST CONSERVATION and LANDSCAPE PLANTING PLAN
- FOREST CONSERVATION and LANDSCAPE PLANTING PLAN
- PLANTING NOTES, SCHEDULES AND DETAILS
- FOREST CONSERVATION NOTES, SCHEDULES AND DETAILS
- STORMWATER MANAGEMENT FOREBAY & SEDIMENT BASIN DETAILS

**SITE ANALYSIS & DATA**

- General Site Data
  - Present Zoning: RR-DEO
  - Existing & Proposed use of Site: Institutional (Public Schools)
  - Private Water & Septic System to be utilize
- Area Tabulation
  - Total Project/Site area: 78.665± acres (gross)
  - Net Area of Site: 75.559± acres (0.186 ac. is natural steep slope per SDP-97-46 and 2.92 ac. of 100-year flood plain)
  - Area of this plan submission: 78.665± acres (Forest Conservation examined for entire site)
  - Area of disturbance by this SDP: 23.2± acres (including septic trenching & septic utilities)
  - Building coverage of site:  
 1.54± ac. for the existing Elm School  
 2.19± ac. for Western Middle School No.3  
 3.73± ac. total building coverage (4.74% of gross site area)
  - Area of paved (impervious) surfaces (parking lot, play courts, sidewalk, etc.)  
 2.11 ac. for the existing Elm School  
 3.74 ac. for the Western Middle School No.3  
 5.85 ac. total
- Open Space Data
  - Open Space required on Site: N/A
  - Open Space proposed/provided: N/A
- Parking Space Data
  - Number of parking spaces required by Zoning Regulations: N/A
  - Total number of car parking spaces provided for the Middle School as required by HCPSS:  
 5 handicapped accessible spaces  
 145 standard 9'x18' parking spaces  
 150 total
  - Total number of school bus parking spaces provided for the Middle School as required by HCPSS:  
 14 spaces (12'x44')

APPROVED: FOR PRIVATE WATER & PRIVATE SEWERAGE SYSTEMS,  
 HOWARD COUNTY HEALTH DEPARTMENT  
 County Health Officer: [Signature] Date: 2/15/02

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING  
 Director: [Signature] Date: 3/5/02  
 Chief, Division of Land Development: [Signature] Date: 3/5/02  
 Chief, Development Engineering Division: [Signature] Date: 3/5/02



**GLW GUTSCHICK LITTLE & WEBER, P.A.**  
 CIVIL ENGINEERS, LAND SURVEYORS, LAND PLANNERS, LANDSCAPE ARCHITECTS  
 3909 NATIONAL DRIVE - SUITE 250 - BURTONSVILLE OFFICE PARK  
 BURTONSVILLE, MARYLAND 20866  
 TEL: 301-421-4024 BALT: 410-880-1820 DC/VA: 301-989-2524 FAX: 301-421-4188

CADD DRAWINGS	DESIGN	SDP'S	DES.	DRN.	CHK.	DATE	REVISION	BY	APPR.

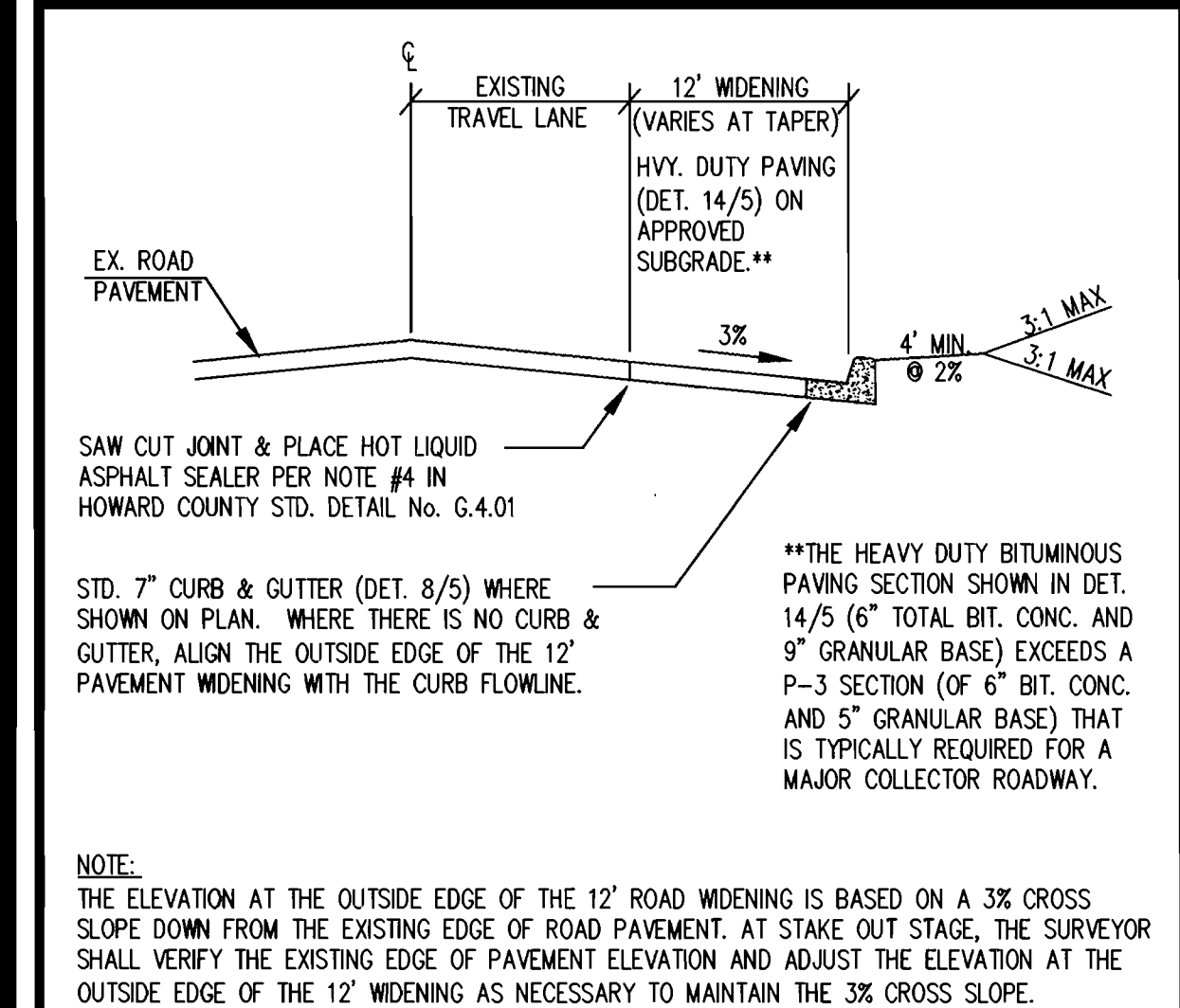
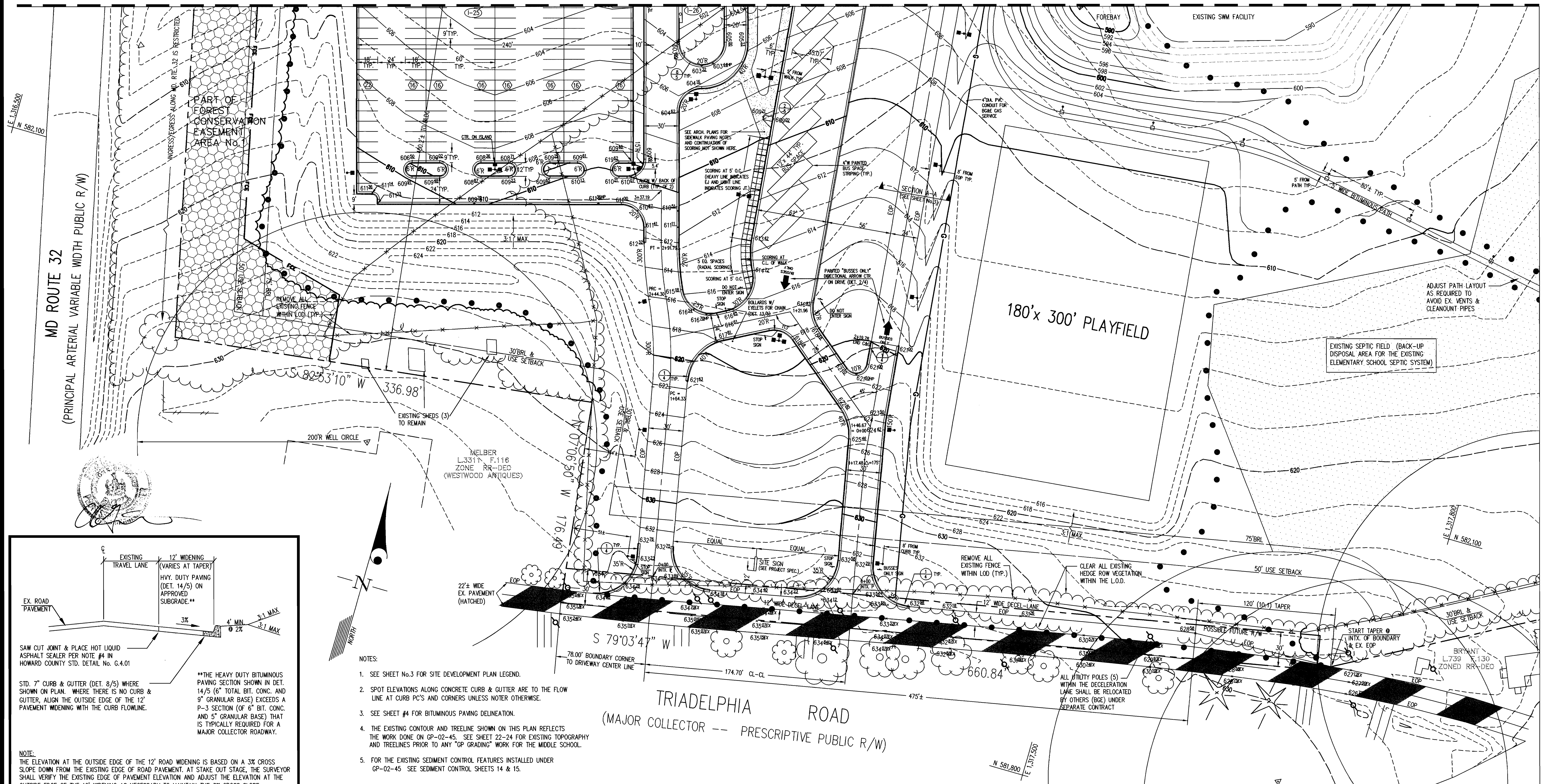
OWNER: HOWARD COUNTY PUBLIC SCHOOL SYSTEM  
 10910 ROUTE 108  
 ELKLOTT CITY, MD 21043  
 ATTN: CATHLEEN YOUNG  
 TEL: 410-313-6704

PREPARED FOR:  
 ARCHITECT: THOMAS CLARK ASSOCIATES ARCHITECTS  
 2661 RIVA ROAD, SUITE 120  
 ANNAPOLIS, MD 21401  
 ATTN: THOMAS CLARK  
 TEL: 301-261-8700

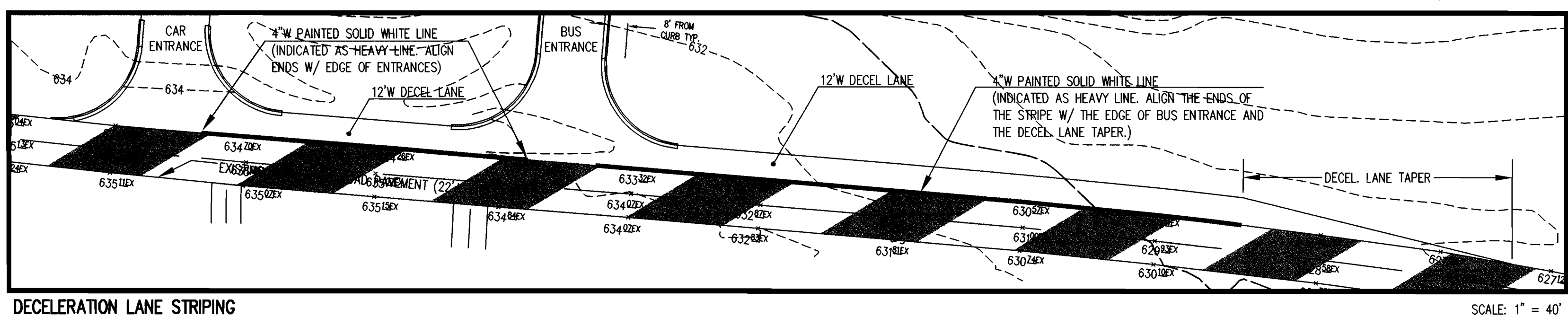
COVER SHEET  
**WESTERN MIDDLE SCHOOL No. 3**  
**HOWARD COUNTY PUBLIC SCHOOL SYSTEM**  
 L. 3813 F.173  
 WEST FRIENDSHIP ELECTION DISTRICT No. 3  
 HOWARD COUNTY, MARYLAND

WATER CODE:		SEWER CODE:		ADDRESS CHART	
PRIVATE-WELL	PRIVATE-SEPTIC	BUILDING	STREET ADDRESS		
		HM#3	13500 TRIADELPHIA ROAD		
PROJECT NAME:		SECTION/AREA		PARCEL	
HCPSS: WESTERN MIDDLE SCHOOL No.3		N/A		6	
PLAT	ZONE	TAX MAP	BLOCK	ELEC. DIST.	CENSUS TRACT
L.3813 F.173	RR	22	8	3	6030
SCALE		ZONING		G. L. W. FILE No.	
AS SHOWN		RR-DEO		00-161	
DATE		TAX MAP - GRID		SHEET	
12/FEB/02		22 8		1 of 27	

BID & CONSTRUCTION  
19 SEPTEMBER 01



- NOTES:
- SEE SHEET No.3 FOR SITE DEVELOPMENT PLAN LEGEND.
  - SPOT ELEVATIONS ALONG CONCRETE CURB & GUTTER ARE TO THE FLOW LINE AT CURB PC'S AND CORNERS UNLESS NOTED OTHERWISE.
  - SEE SHEET #4 FOR BITUMINOUS PAVING DELINEATION.
  - THE EXISTING CONTOUR AND TREELINE SHOWN ON THIS PLAN REFLECTS THE WORK DONE ON GP-02-45. SEE SHEET 22-24 FOR EXISTING TOPOGRAPHY AND TREELINES PRIOR TO ANY "GP GRADING" WORK FOR THE MIDDLE SCHOOL.
  - FOR THE EXISTING SEDIMENT CONTROL FEATURES INSTALLED UNDER GP-02-45 SEE SEDIMENT CONTROL SHEETS 14 & 15.



**Stormwater Management Pond Summary**

Item	EX. Q(cfs)	Pond Q In-(cfs)	Pond Q Out-(cfs)	Total Q (cfs)	WSEL.	Stor. Req. (Ac.-Ft.)	Stor. Prov. (Ac.-Ft.)
Quality	N/A	N/A	N/A	N/A	90.00	0.88	1.04
2-Year	7.8	39.8	1.4	5.7	91.68	1.50	1.47
10-Year	44.1	92.6	22.2	38.0	92.75	2.44	2.56
100 Year	N/A	155.8	84.3	N/A	94.18	N/A	4.08

Note: The existing pond is a 2/10 year quantity control facility with a wet pool for quality control. It is a Class "a" Facility that shall be privately owned and maintained by the developer. The total drainage area to the pond is 27.5 ac.

APPROVED: FOR PRIVATE WATER & PRIVATE SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT  
 County Health Officer: *[Signature]* Date: 2/2/02

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING  
 Director: *[Signature]* Date: 3/5/02  
 Chief, Division of Land Development: *[Signature]* Date: 3/5/02  
 Chief, Development Engineering Division: *[Signature]* Date: 3/5/02

**GLW GUTSCHICK LITTLE & WEBER, P.A.**  
 CIVIL ENGINEERS, LAND SURVEYORS, LAND PLANNERS, LANDSCAPE ARCHITECTS  
 3909 NATIONAL DRIVE - SUITE 250 - BURTONSVILLE OFFICE PARK  
 BURTONSVILLE, MARYLAND 20868  
 TEL: 301-421-4024 BALT: 410-880-1820 DC/VA: 301-989-2524 FAX: 301-421-4186  
 CADD/DRAWING/00161/DESIGN/SDP/00161sdp.dwg

DATE	REVISION	BY	APP'R.

PREPARED FOR:  
 OWNER: HOWARD COUNTY PUBLIC SCHOOL SYSTEM  
 10910 ROUTE 108  
 ELLICOTT CITY, MD 21043  
 ATTN: CATHLEEN YOUNG  
 TEL: 410-313-6704

ARCHITECT:  
 THOMAS CLARK ASSOCIATES  
 ARCHITECTS  
 2861 RIVA ROAD, SUITE 120  
 ANNAPOLIS, MD 21401  
 ATTN: THOMAS CLARK  
 TEL: 301-261-8700

**SITE DEVELOPMENT PLAN**  
**WESTERN MIDDLE SCHOOL No. 3**  
**HOWARD COUNTY PUBLIC SCHOOL SYSTEM**  
 L. 3813 P173

WEST FRIENDSHIP ELECTION DISTRICT No. 3

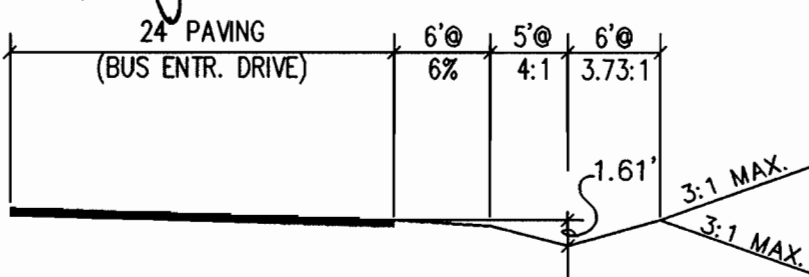
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1" = 40'	RR-DEO	00-161
DATE	TAX MAP - GRID	SHEET
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HOWARD COUNTY, MARYLAND

**SITE DEVELOPMENT PLAN LEGEND**

- EXISTING CONTOUR --- 600 ---
- PROPOSED CONTOUR --- 600 ---
- EXISTING TREE LINE
- PROPOSED TREE LINE
- LIMIT OF DISTURBANCE
- WETLANDS
- 25' WETLAND BUFFER
- STREAM BUFFER
- FLOODPLAIN
- EDGE OF PAVING
- PROPOSED CURB & GUTTER
- SPOT ELEV. (EXISTING) 6.342EX
- SPOT ELEV. (PROPOSED) 6.342P
- PROPOSED STORM DRAIN LINE
- PRIVATE (SEPTIC) SEWER LINE
- PRIVATE (WELL) WATER LINE\*\*
- EXISTING UTILITY POLE
- PROPOSED SITE LIGHTING
- NUMBER OF PARKING SPACES
- TRANSFORMER PAD
- PROPOSED SIDEWALK (SEE DET. 7/5)
- PROPOSED FOREST CONSERVATION ESMT.

\*\*TO BE INCORPORATED ONCE WELLS ARE DRILLED (SEE GENERAL NOTE #9 ON SHEET 1)



**SECTION A-A**  
DITCH SECTION ON THE EAST SIDE OF THE OPEN SECTION DRIVEWAY TO THE SERVICE AREA AND THE BUS LOOP.

**NOTES:**

1. BUILDING INGRESS/EGRESS POINTS ARE DENOTED BY THE SYMBOL ▽. THE FINISHED GRADE AT THESE LOCATIONS IS 604.00. FIVE (5) FEET FROM THESE POINTS, THE OUTSIDE FINISHED GRADE IS 603.90.
2. SEE ARCHITECTURAL DRAWINGS FOR SCREENING WALLS, FLAGPOLE, PAVED PLAY AREA, SIDEWALK DIMENSION & SCORING NOT SHOWN ON THIS SITE DEVELOPMENT PLAN.
3. SEE MECHANICAL DRAWINGS FOR ALL SANITARY LINES TO THE MANHOLE BY THE SERVICE AREA. SEE THESE SDP DRAWINGS FOR THE SANITARY LINE FROM THE MANHOLE TO THE PRIMARY SEPTIC FIELD.
4. SEE DETAIL 7/6 FOR MORE INFORMATION ON THE SERVICE AREA.
5. SEE SHEET #4 FOR BITUMINOUS PAVING DELINEATION.
6. THE EXISTING CONTOUR AND TREELINE SHOWN ON THIS PLAN REFLECTS THE WORK DONE ON GP-02-45. SEE SHEET 22-24 FOR EXISTING TOPOGRAPHY AND TREELINES PRIOR TO ANY "GP GRADING" WORK FOR THE MIDDLE SCHOOL.
7. FOR THE EXISTING SEDIMENT CONTROL FEATURES INSTALLED UNDER GP-02-45 SEE SEDIMENT CONTROL SHEETS 14 & 15.

APPROVED: FOR PRIVATE WATER & PRIVATE SEWERAGE SYSTEMS,  
HOWARD COUNTY HEALTH DEPARTMENT  
*[Signature]* 1/18/02  
County Health Officer Date

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING  
*[Signature]* 3/5/02  
Director Date

*[Signature]* 3/5/02  
Chief, Division of Land Development Date

*[Signature]* 3/5/02  
Chief, Development Engineering Division Date



**GLW GUTSCHICK LITTLE & WEBER, P.A.**  
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BURTONSVILLE, MARYLAND 20866  
TEL: 301-421-4024 BALT: 410-989-1820 DC/VA: 301-989-2524 FAX: 301-421-4186  
CADD\DRAWING\2016\DESIGN\SDP\00161sdp.dwg DES. DRN. CHK.

DATE	REVISION	BY	APP'R.

OWNER: HOWARD COUNTY PUBLIC SCHOOL SYSTEM  
10910 ROUTE 108  
ELLIOTT CITY, MD 21043  
ATTN: CATHLEEN YOUNG  
TEL: 410-313-6704

ARCHITECT: THOMAS CLARK ASSOCIATES ARCHITECTS  
2661 RIVA ROAD, SUITE 120  
ANNAPOLIS, MD 21401  
ATTN: THOMAS CLARK  
TEL: 301-261-8700

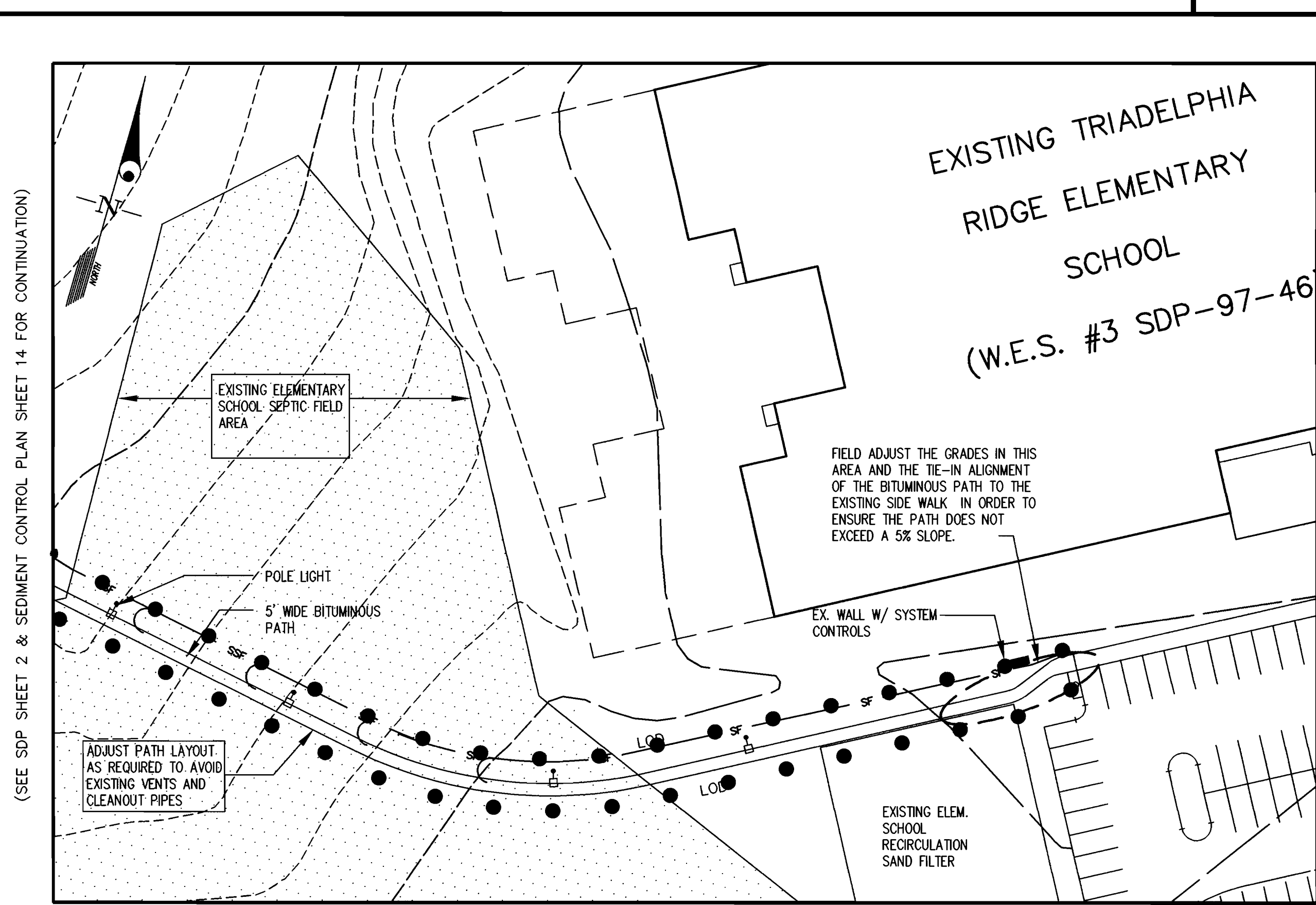
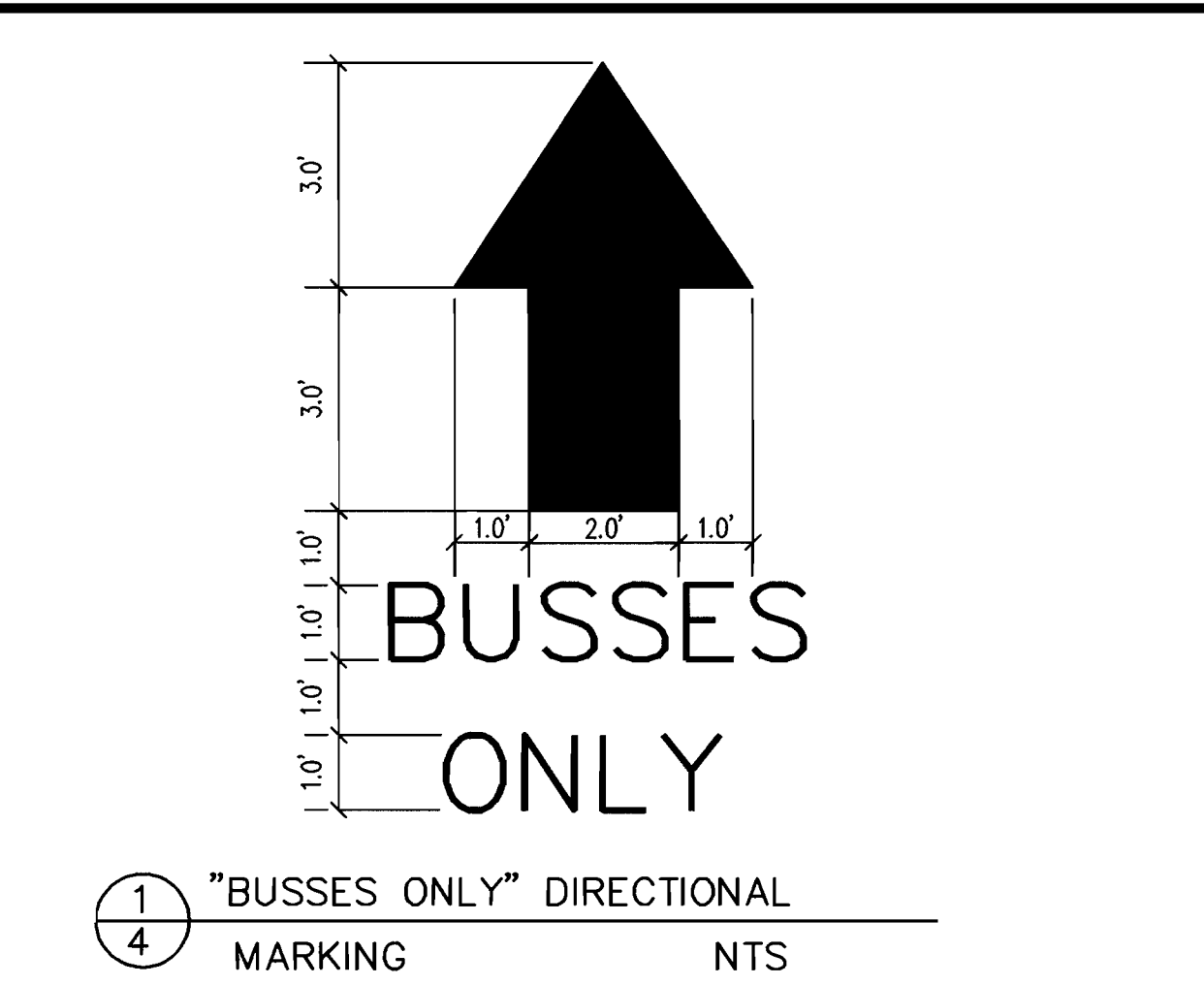
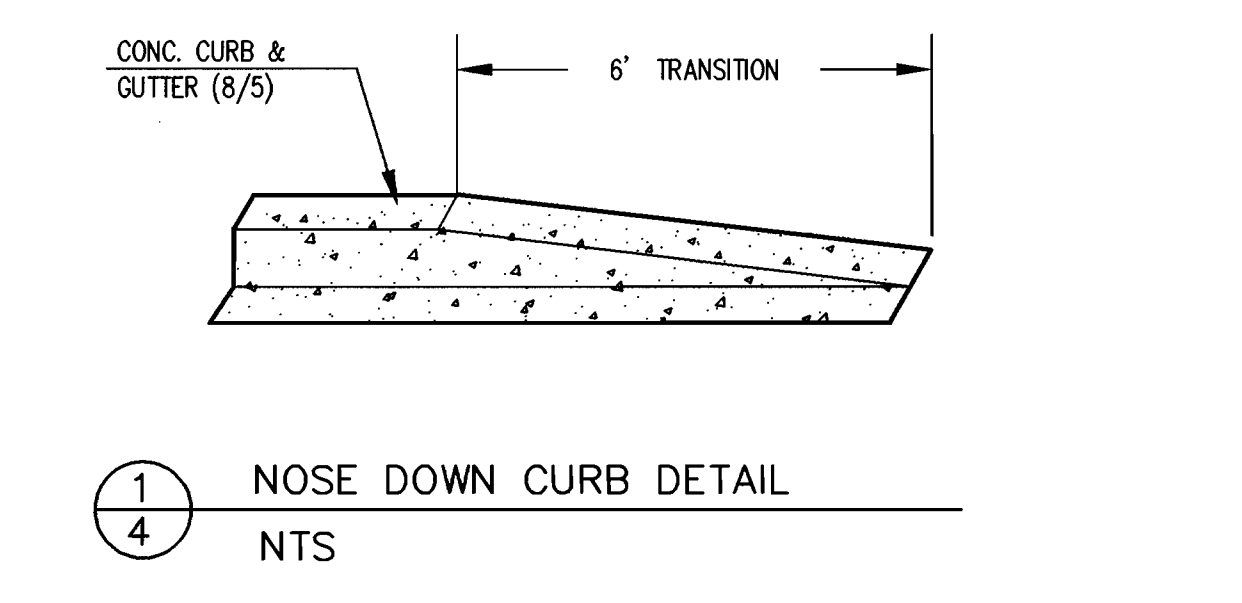
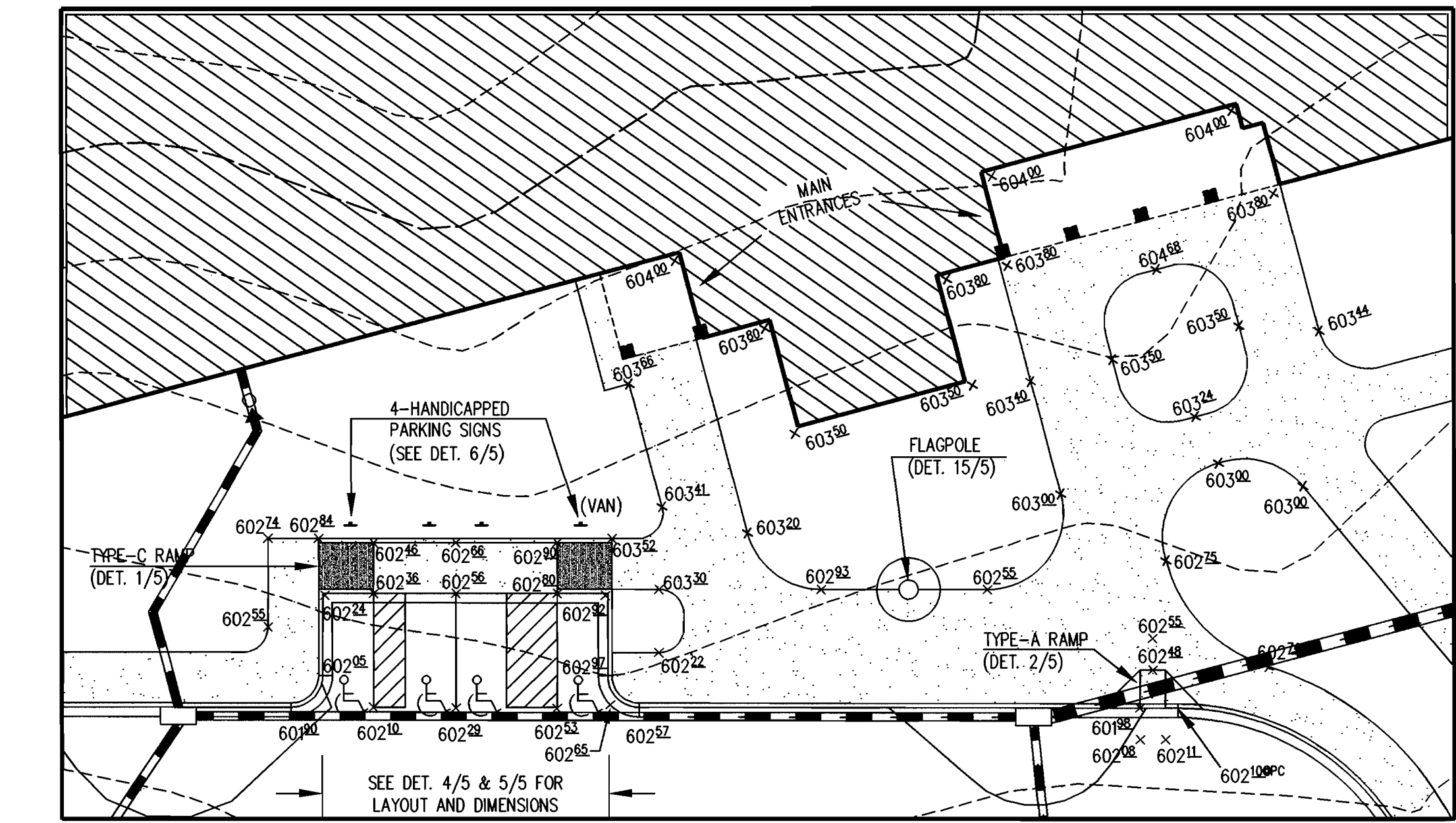
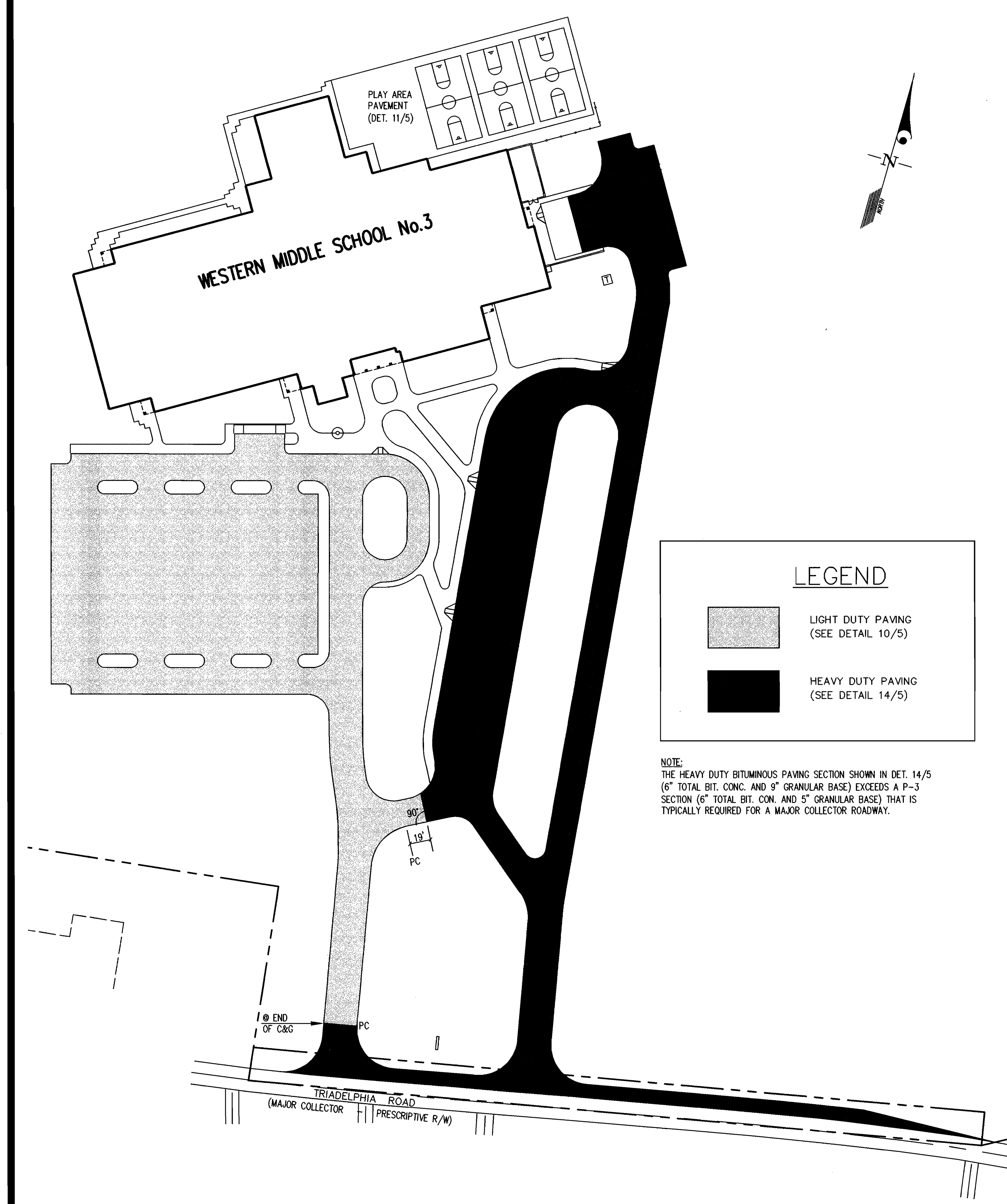
**SITE DEVELOPMENT PLAN**  
**WESTERN MIDDLE SCHOOL No. 3**  
**HOWARD COUNTY PUBLIC SCHOOL SYSTEM**  
L. 3813 P.173

WEST FRIENDSHIP ELECTION DISTRICT No. 3

HOWARD COUNTY, MARYLAND

SCALE	ZONING	G. L. W. FILE No.
1" = 40'	RR-DEO	00-161
DATE	TAX MAP - GRID	SHEET
12/FEB/02	22 8	3 of 27

BID & CONSTRUCTION  
19 SEPTEMBER 01



**DEVELOPER'S/BUILDER'S CERTIFICATE**

"I/We certify that all development and/or construction will be done according to this plan, and that any responsible personnel involved in the construction project will have a Certificate of Attendance at a Maryland Department of the Environment Approved Training Program for the Control of Sediment and Erosion before beginning the project. I also authorize periodic on-site inspection by the HSCD."

*Wm Pa* 02 14 02  
Signature of Developer/Builder Date

**ENGINEER'S CERTIFICATE**

"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."

*Clayton* 2-15-02  
Date

These plans have been reviewed for the Howard Soil Conservation District and meet the technical requirements.

*J. Mays / GS* 2/27/02  
Natural Resources Conservation Service Date

APPROVED: FOR PRIVATE WATER & PRIVATE SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT

*[Signature]* 2/28/02  
County Health Officer Date

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING

*[Signature]* 3/5/02  
Director Date

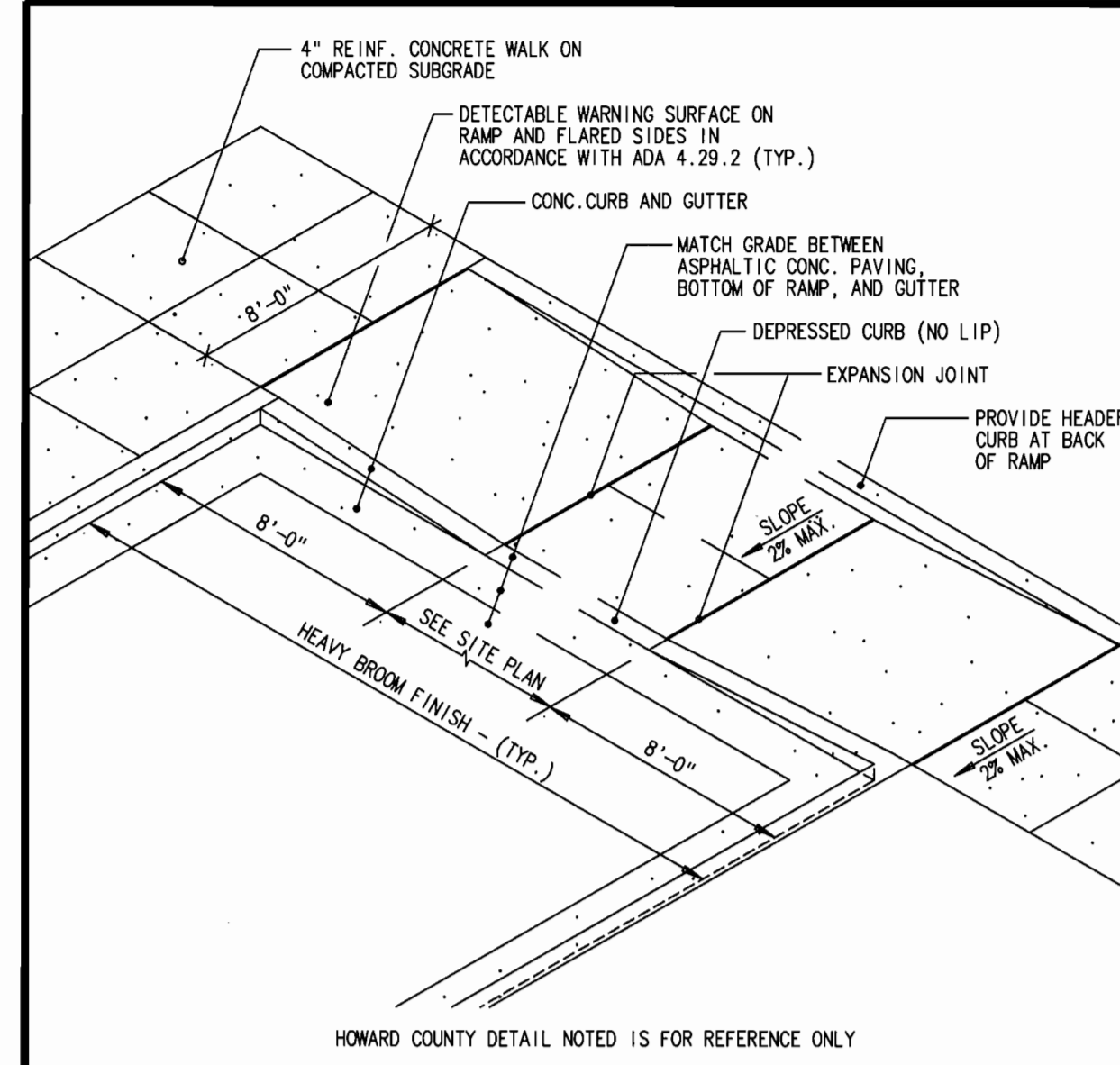
*[Signature]* 3/5/02  
Chief, Division of Land Development Date

*[Signature]* 3/5/02  
Chief, Development Engineering Division Date

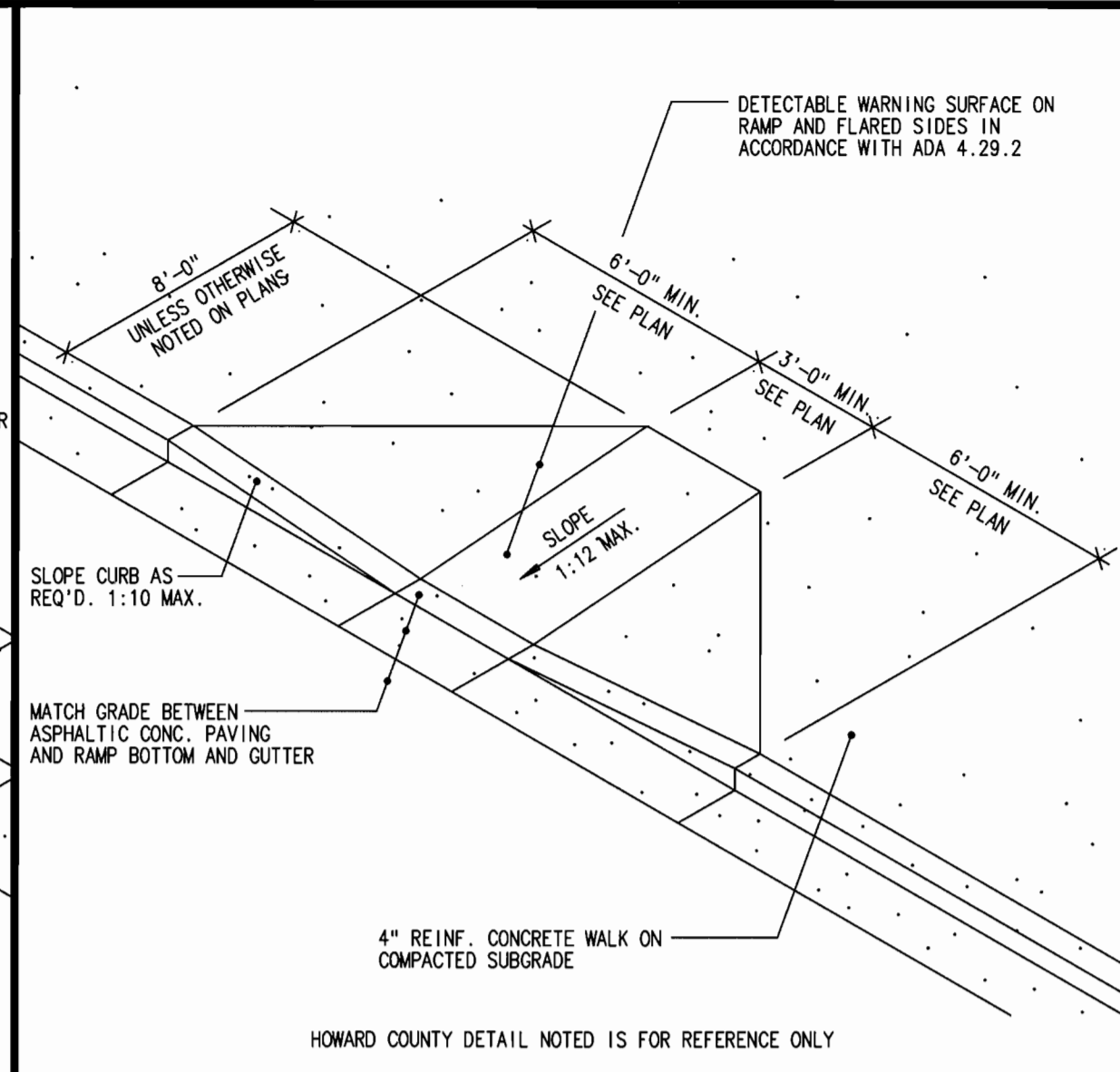
**PARKING LOT, DRIVEWAY AND ROADWAY PAVING DELINEATION**

1" = 60'

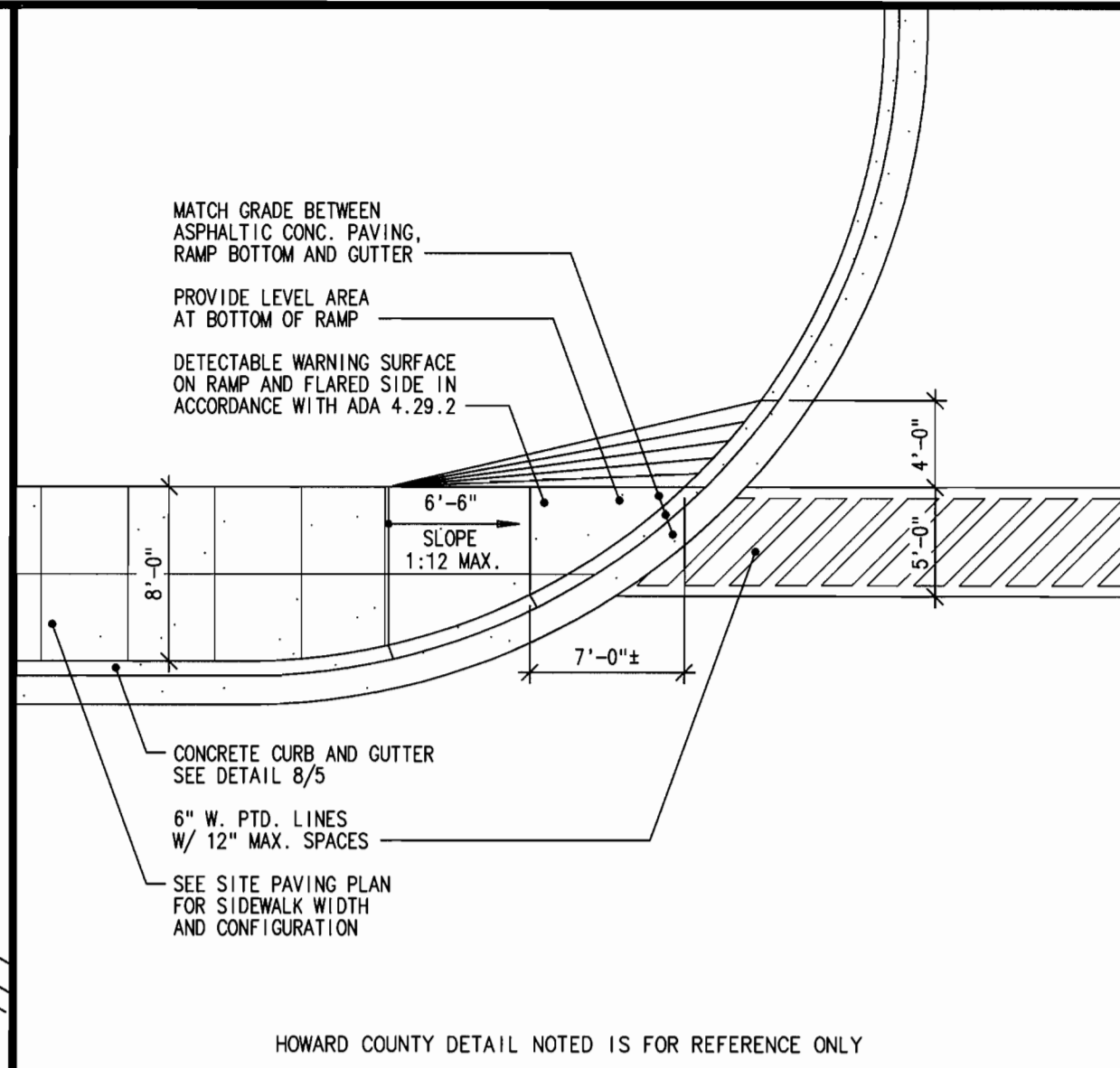
<b>GLW GUTSCHICK LITTLE &amp; WEBER, P.A.</b> CIVIL ENGINEERS, LAND SURVEYORS, LAND PLANNERS, LANDSCAPE ARCHITECTS 3909 NATIONAL DRIVE - SUITE 250 - BURTONSVILLE OFFICE PARK BURTONSVILLE, MARYLAND 20886 TEL: 301-421-4024 BALT. 410-880-1820 DC/VA: 301-989-2524 FAX: 301-421-4186	PREPARED FOR: OWNER: HOWARD COUNTY PUBLIC SCHOOL SYSTEM 10910 ROUTE 108 ELLICOTT CITY, MD 21043 ATTN: CATHLEEN YOUNG TEL: 410-313-6704		ARCHITECT: THOMAS CLARK ASSOCIATES ARCHITECTS 2551 RIVA ROAD, SUITE 120 ANNAPOLIS, MD 21401 ATTN: THOMAS CLARK TEL: 301-261-8700		<b>SITE DETAILS</b> <b>WESTERN MIDDLE SCHOOL No. 3</b> <b>HOWARD COUNTY PUBLIC SCHOOL SYSTEM</b> L 3813 F173		SCALE: AS SHOWN DATE: 12/FEB/02	ZONING: RR-DEO TAX MAP - GRID: 22 8	G. L. W. FILE No.: 00-161 SHEET: 4 of 27
	WEST FRIENDSHIP ELECTION DISTRICT No. 3		HOWARD COUNTY, MARYLAND		BID & CONSTRUCTION 19 SEPTEMBER 01				



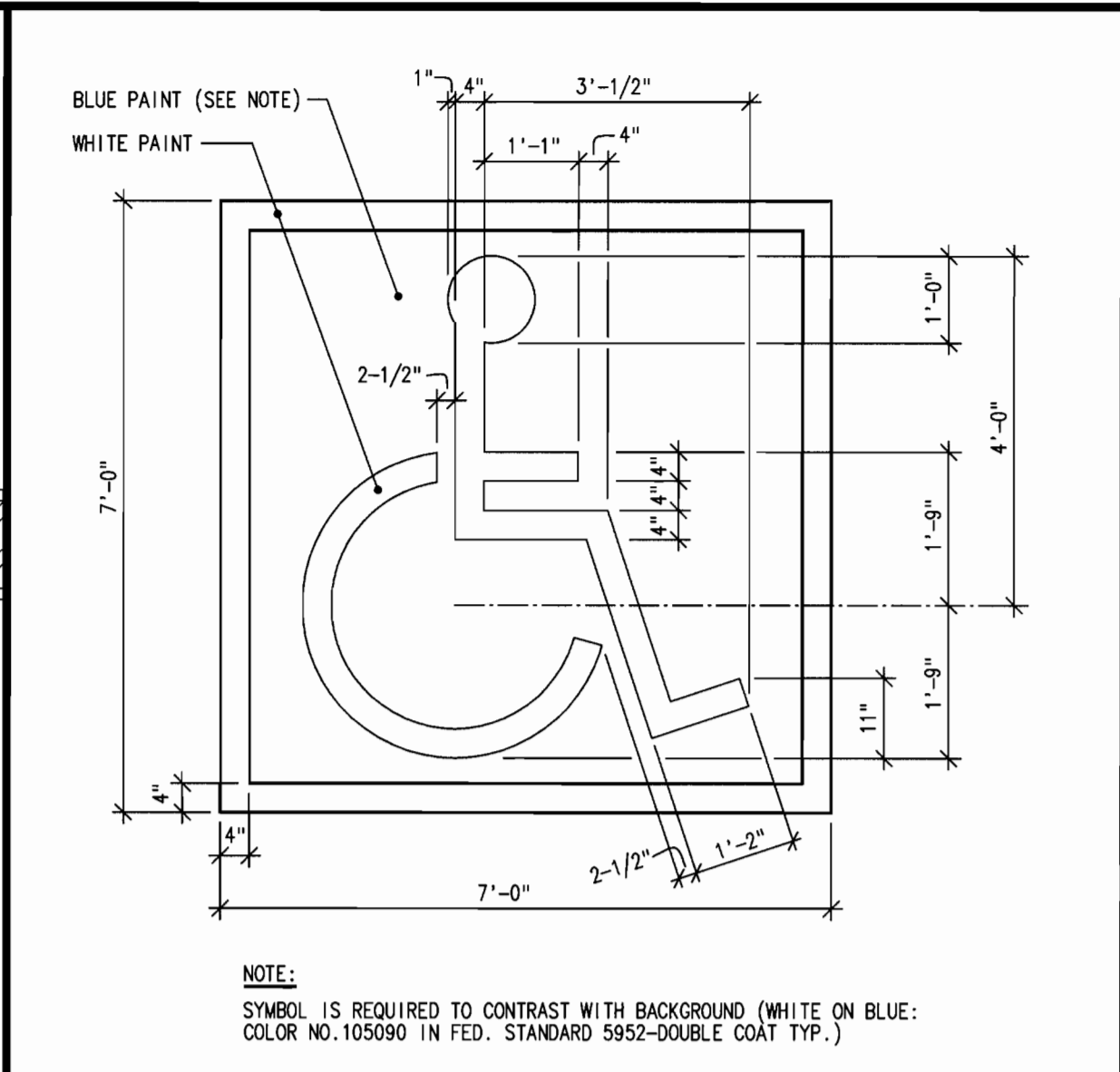
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5 TYPE C CURB RAMP DETAIL HO. CO. DETAIL R4.03 NO. SCALE 2/5



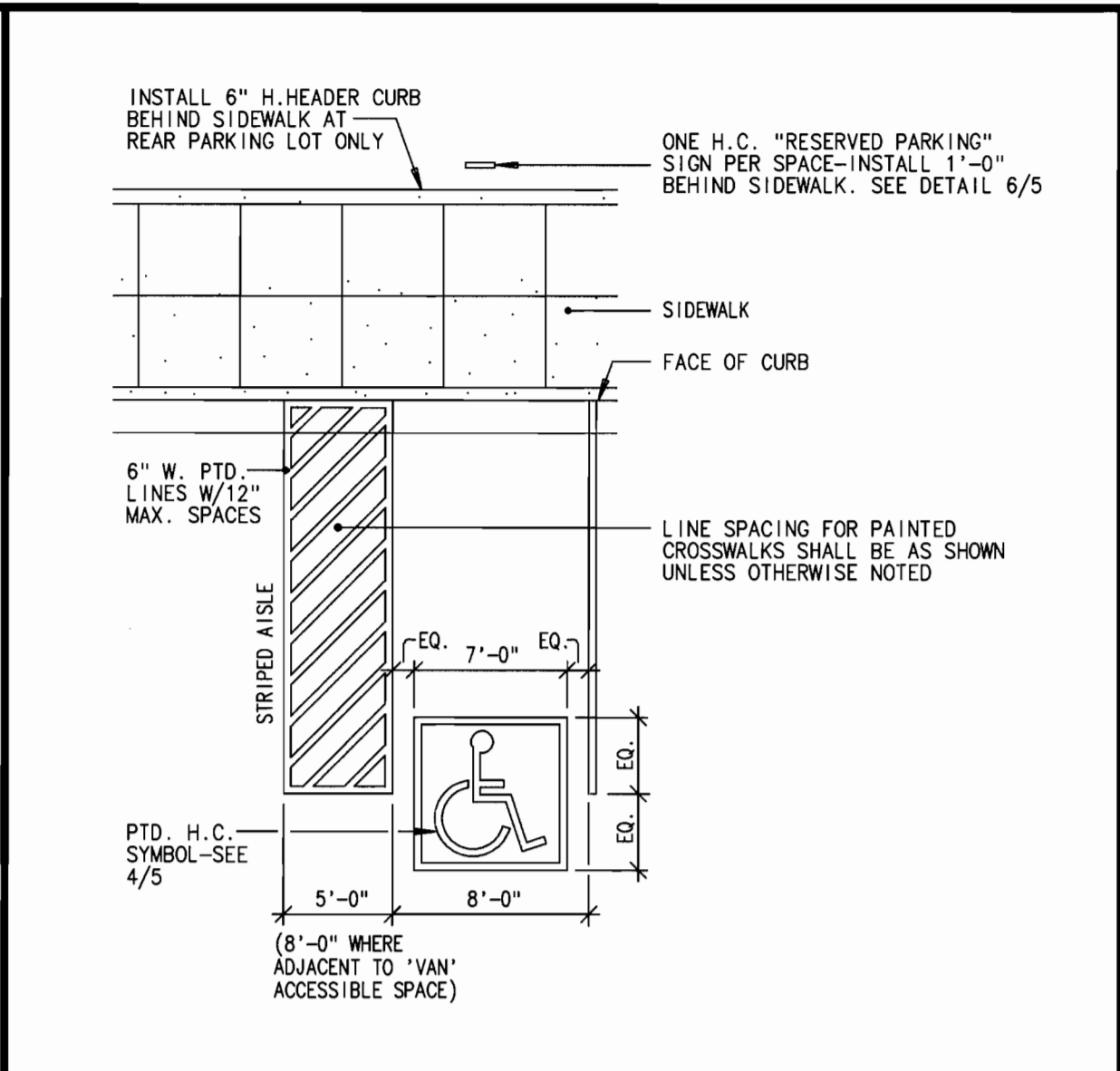
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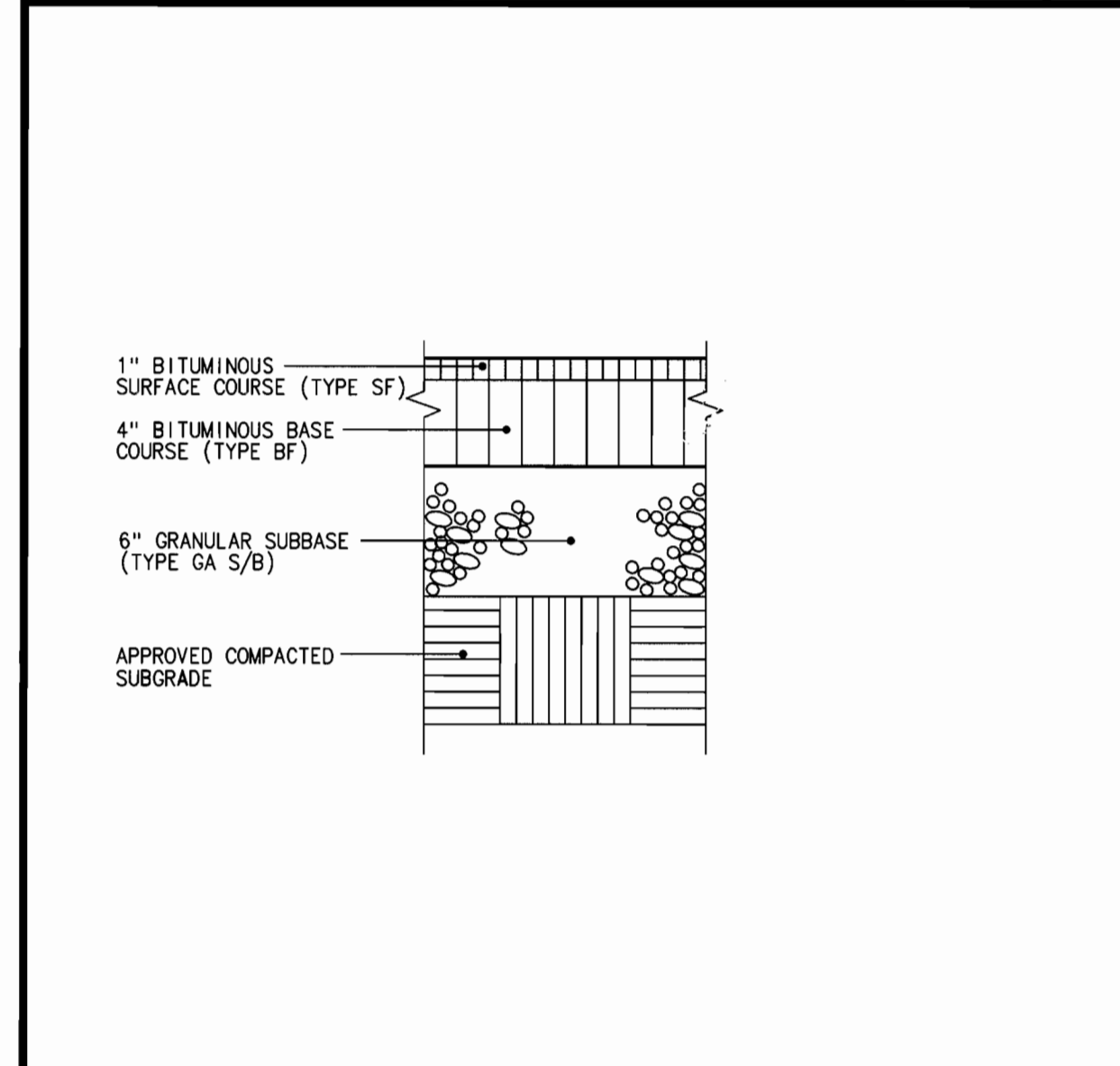
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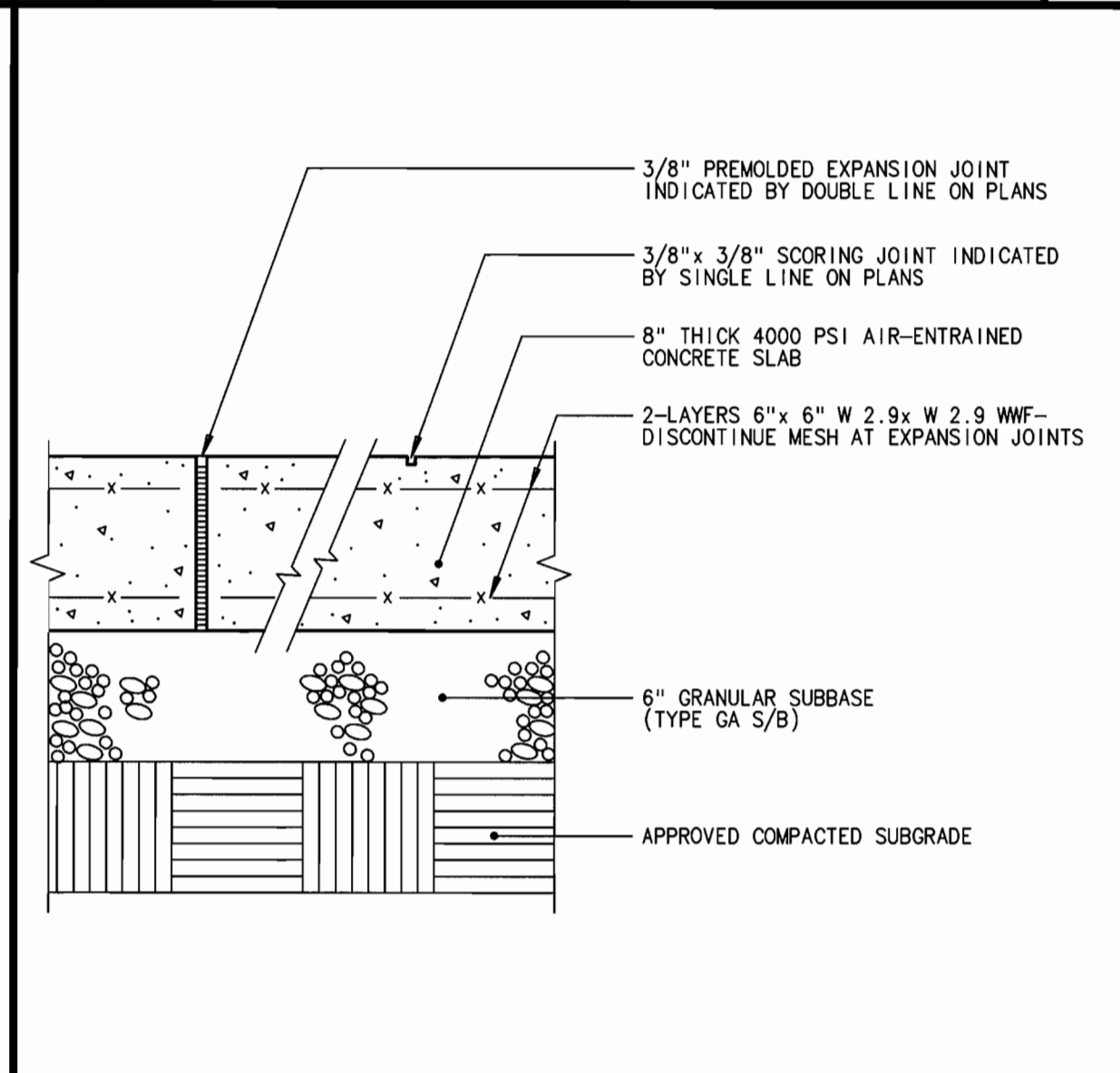
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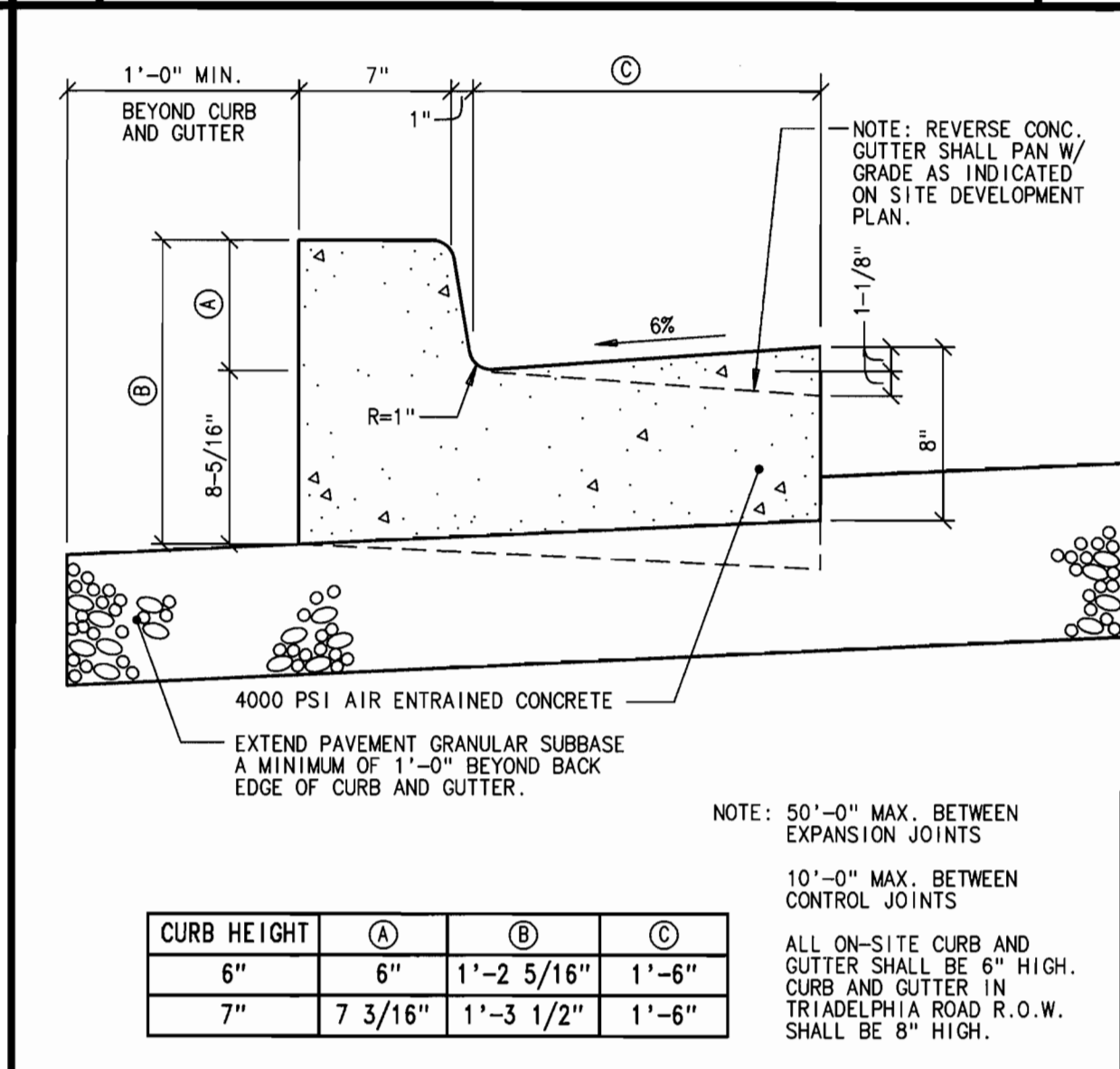
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8 ACCESSIBLE SPACE LAYOUT HO. CO. DETAIL R3.05 NO. SCALE 1 1/8



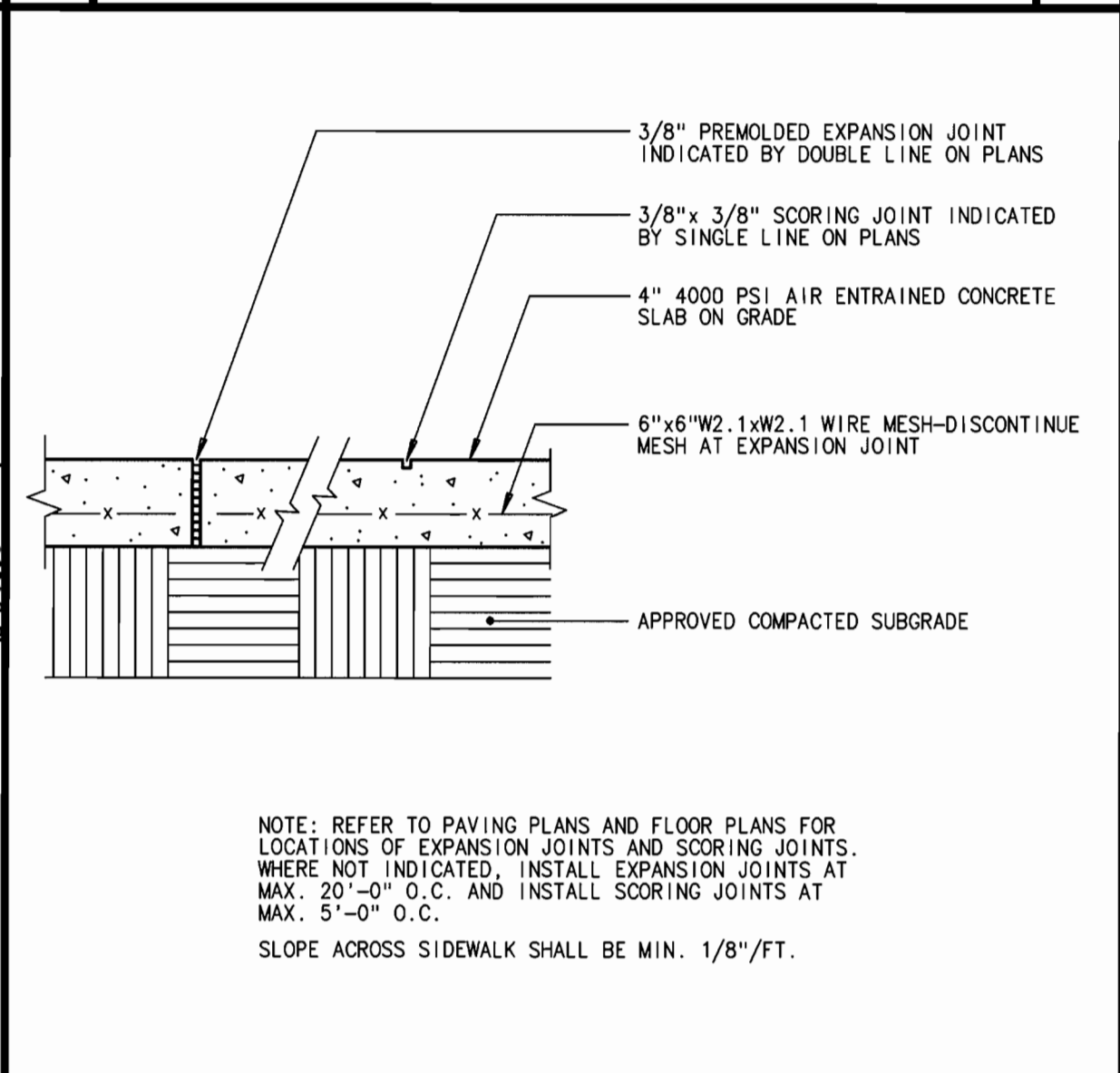
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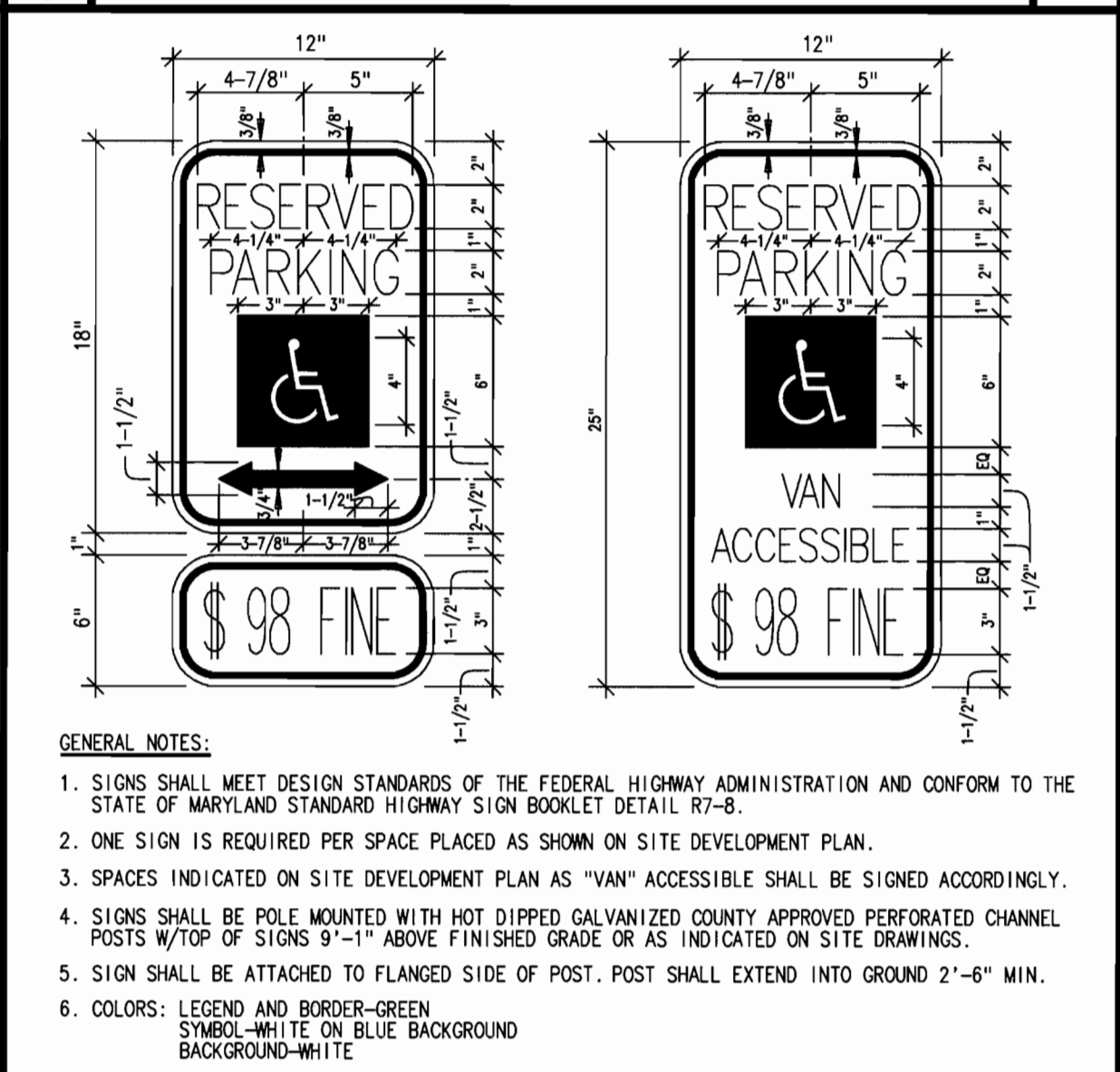
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5 SERVICE AREA CONCRETE PAVING HO. CO. DETAIL R3.01/R3.07 NO. SCALE 1 1/2



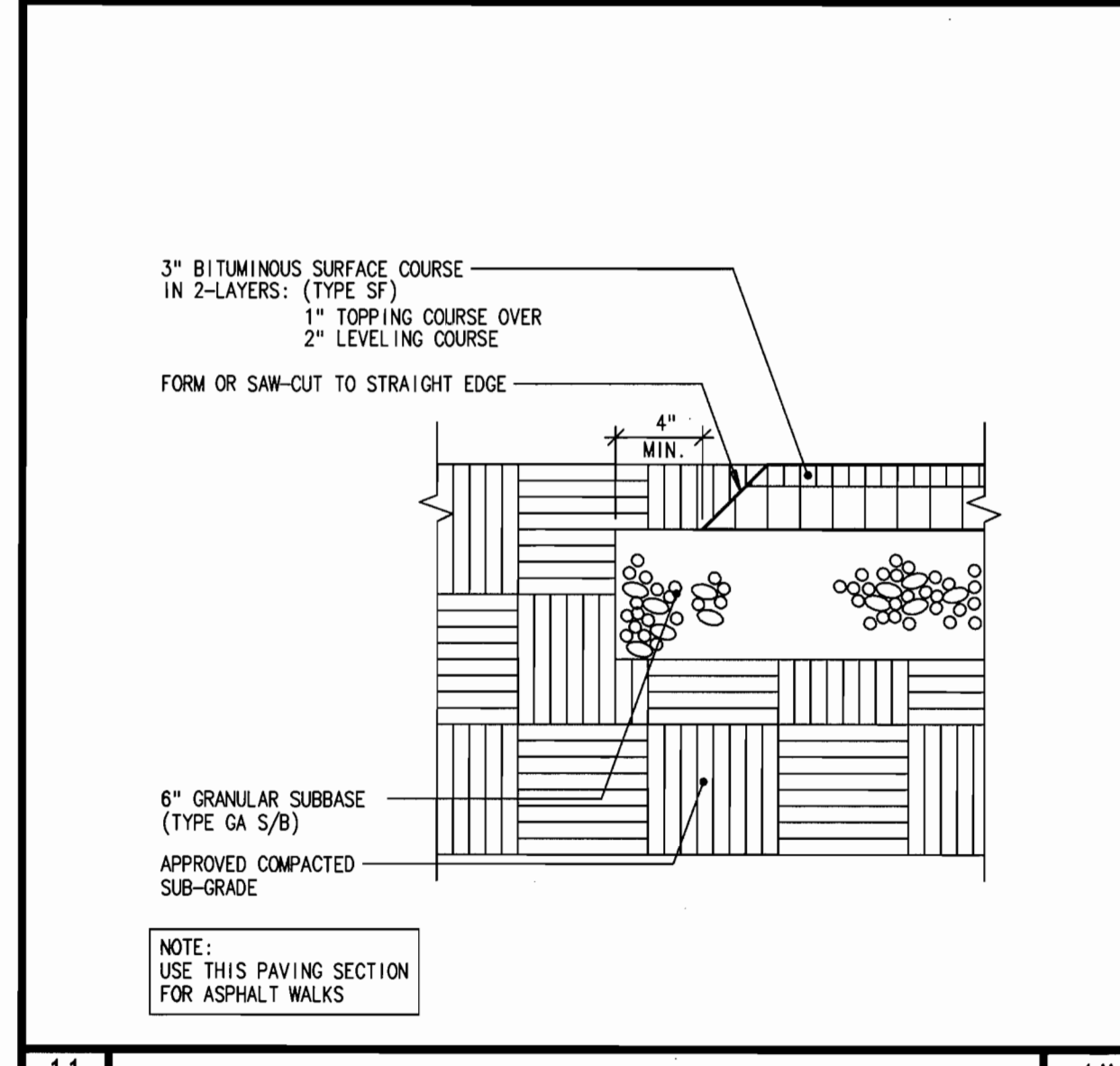
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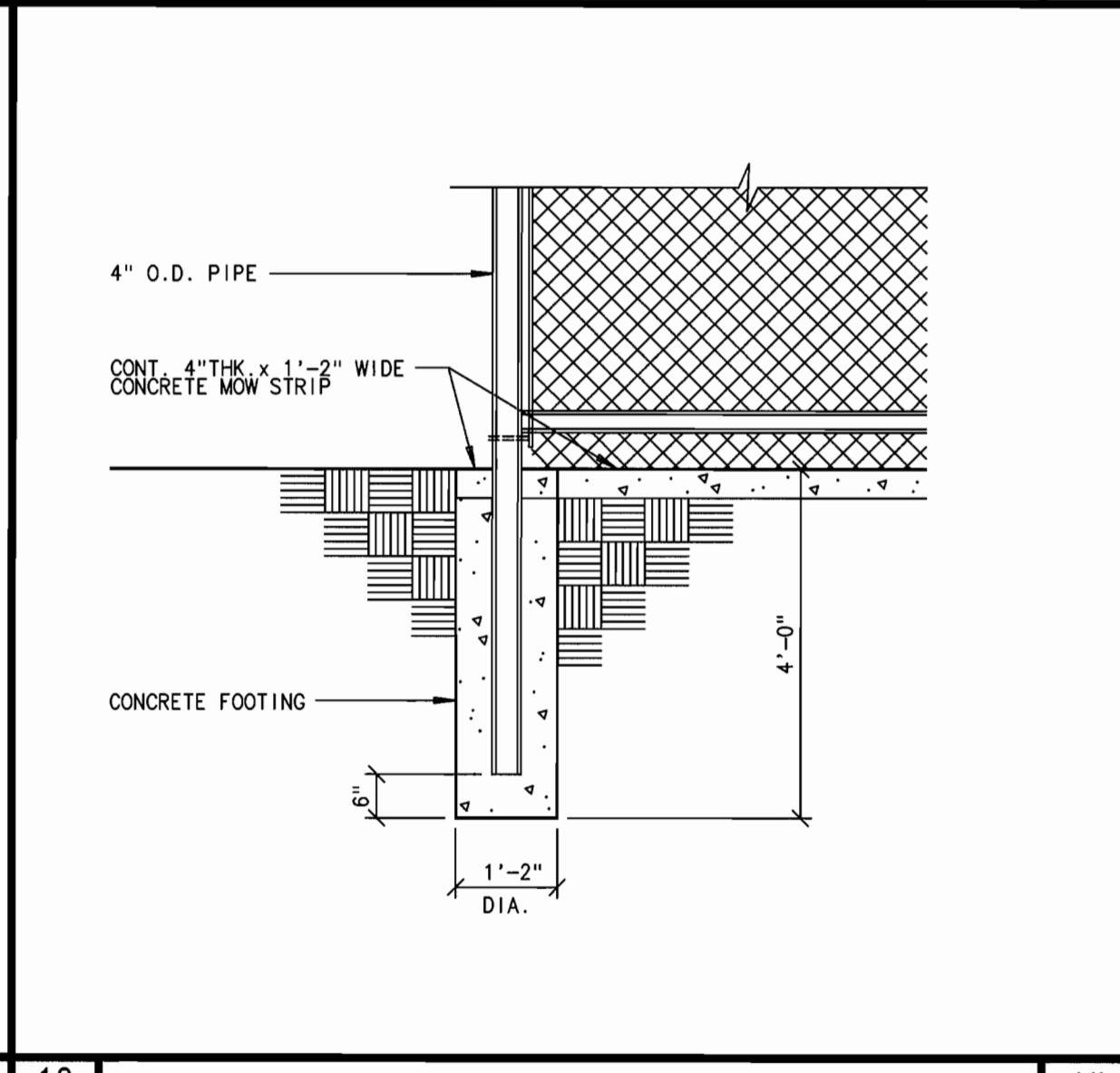
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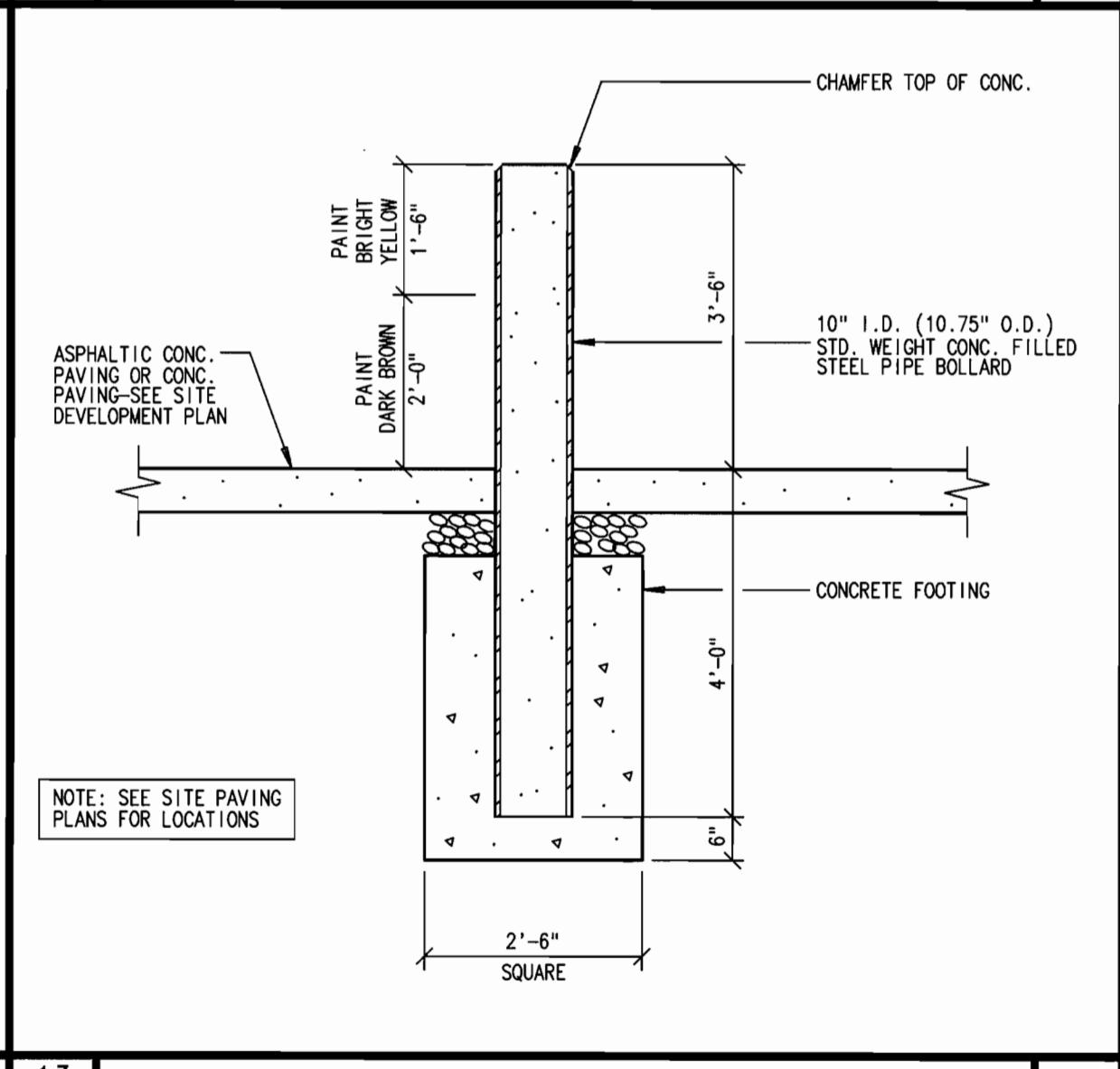
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5 HANDICAP PARKING SIGNS DETAIL HO. CO. DETAIL R3.05 NO. SCALE 1 1/2



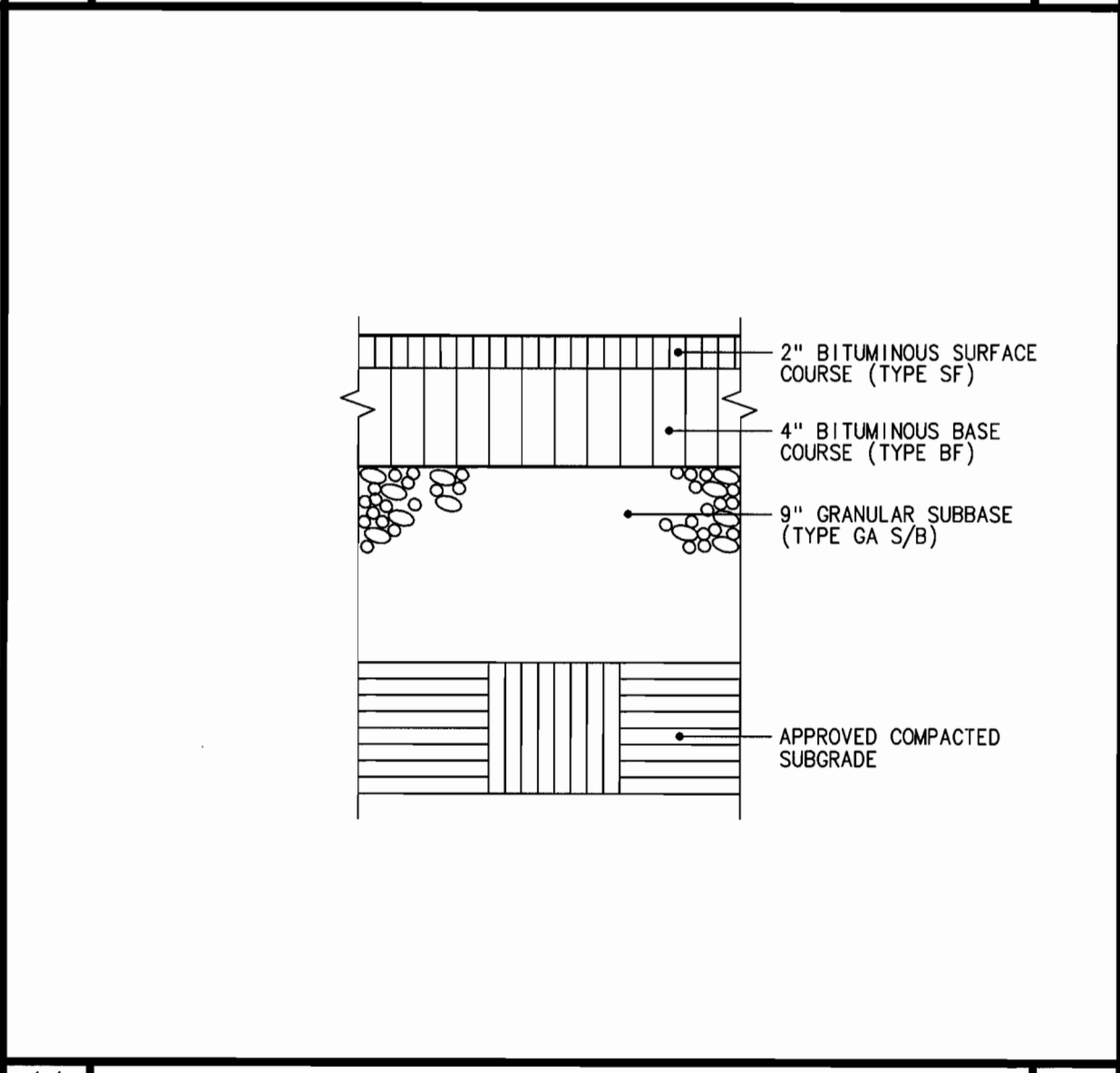
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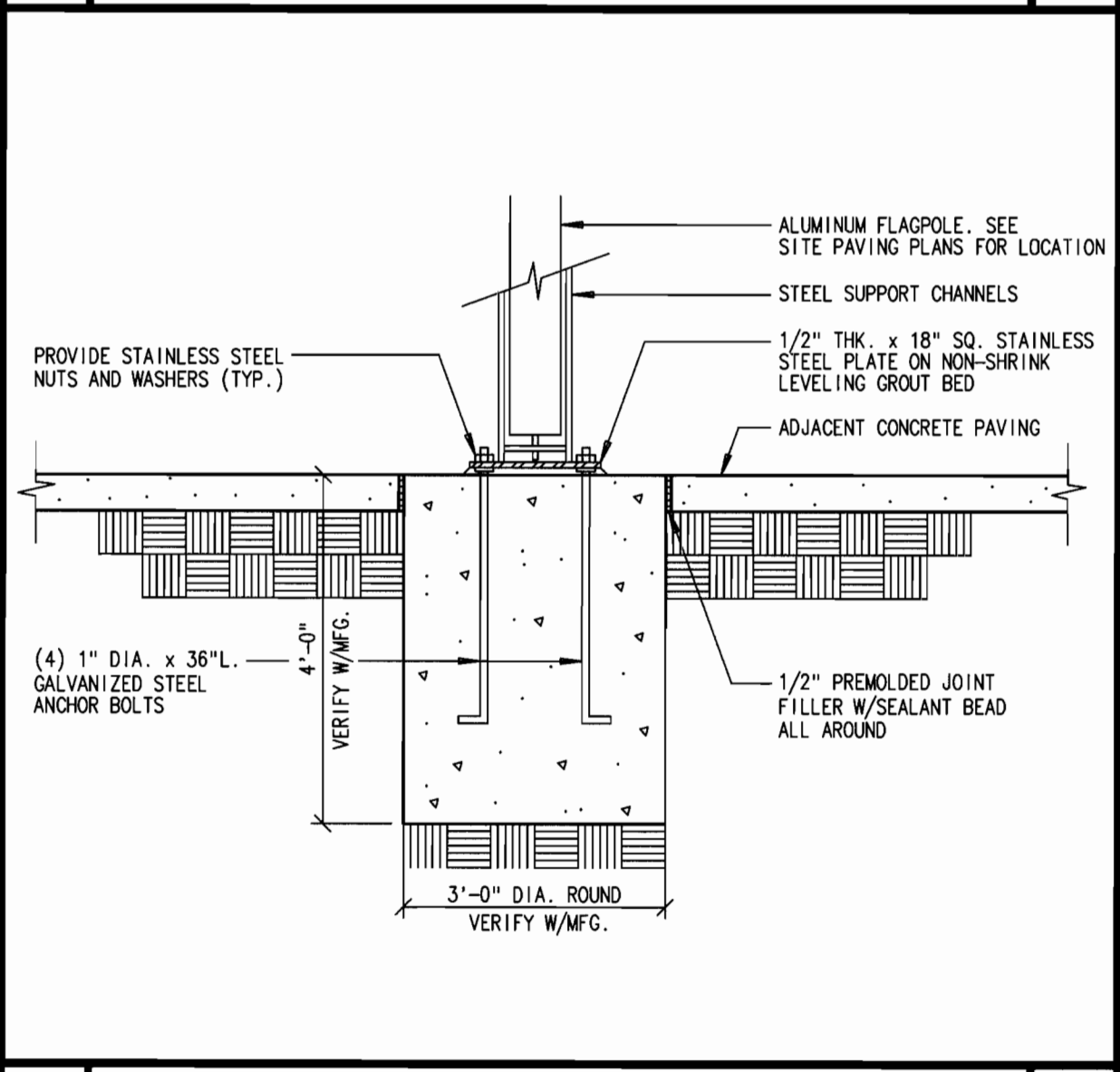
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13  
5 PIPE BOLLARD DETAIL HO. CO. DETAIL R3.01/R3.07 NO. SCALE 1 1/2



14  
5 HEAVY DUTY PAVEMENT DETAIL HO. CO. DETAIL R3.05 NO. SCALE 1 1/2



15  
2 TILT FLAGPOLE DETAIL HO. CO. DETAIL R3.05 NO. SCALE 1 1/2

11  
5 PAVED PLAY AREA PAVEMENT DETAIL HO. CO. DETAIL R3.01/R3.07 NO. SCALE 1 1/2

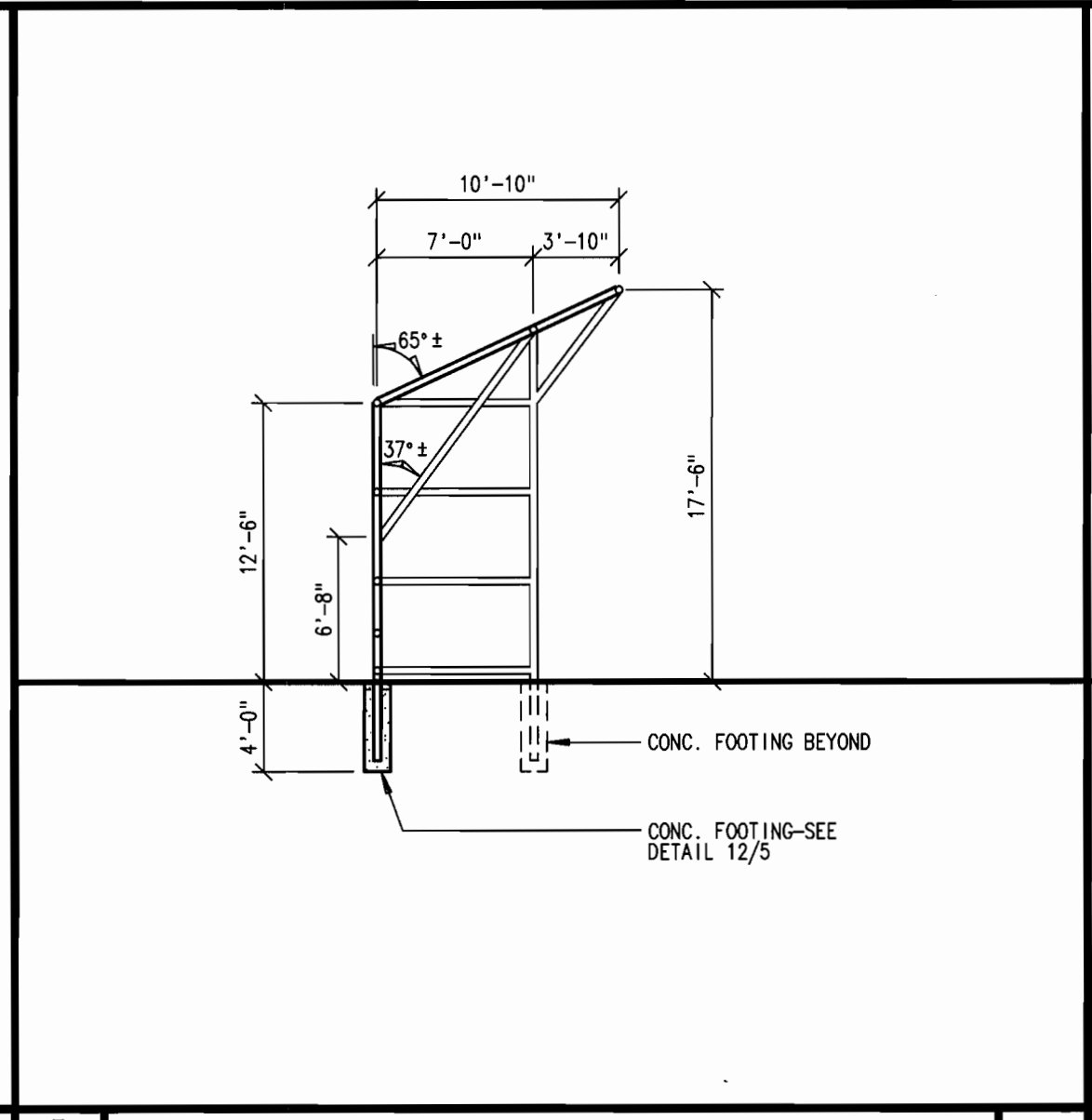
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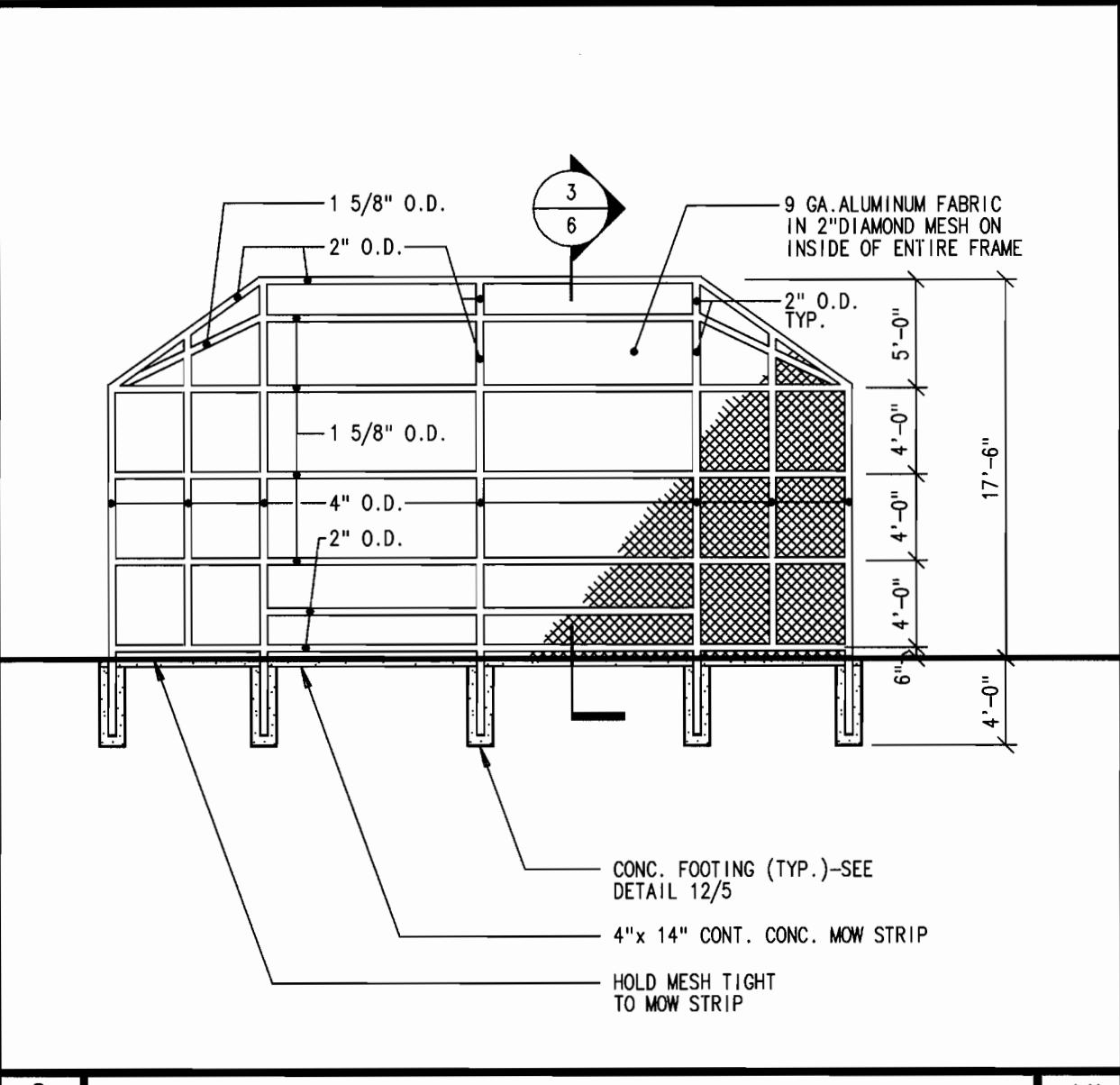
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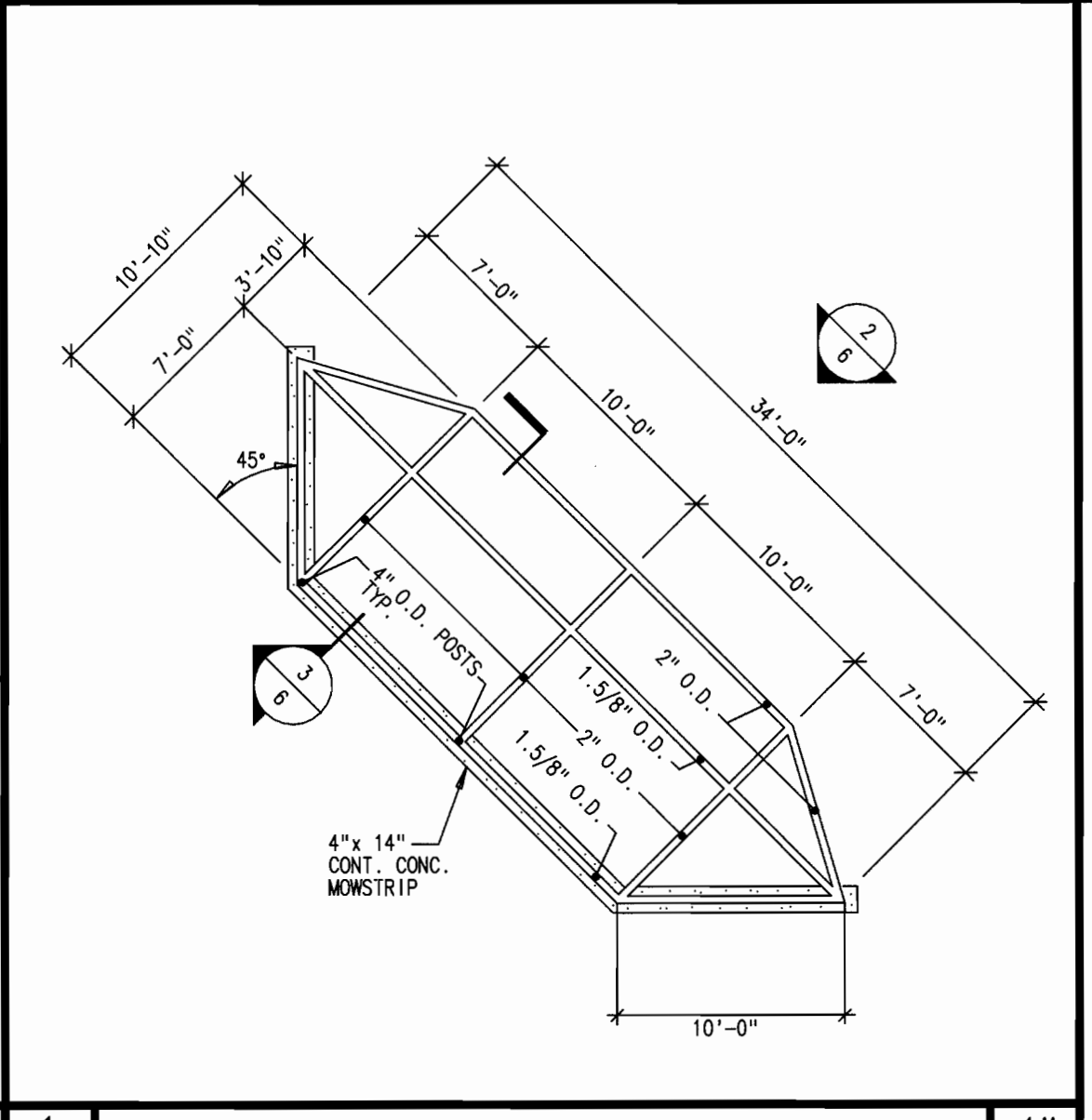
<p>TCA ARCHITECTS 2661 RIVA ROAD SUITE 120 ANNAPOLIS, MARYLAND 21401 410-841-6205</p>		<p>APPROVED: FOR PRIVATE WATER &amp; PRIVATE SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT <i>[Signature]</i> DATE 2/28/02 COUNTY HEALTH OFFICER</p>		<p>APPROVED: DEPARTMENT OF PLANNING AND ZONING <i>[Signature]</i> DATE 3/5/02 DIRECTOR</p>		<p>APPROVED: <i>[Signature]</i> DATE 3/5/02 CHIEF, DIVISION OF LAND DEVELOPMENT</p>		<p>APPROVED: <i>[Signature]</i> DATE 3/5/02 CHIEF, DEVELOPMENT ENGINEERING DIVISION</p>		<p>SITE DETAILS  WESTERN MIDDLE SCHOOL NO.3  TAX MAP NO. 22 LIBER 3813 FOLIO 173 3RD ELECTION DISTRICT: HOWARD COUNTY, MARYLAND SCALE: AS SHOWN</p>	
<p>OWNER HOWARD COUNTY PUBLIC SCHOOL SYSTEM 10910 ROUTE 108 ELLCOTT CITY, MARYLAND 21043</p>		<p>SDP FILING 25 MAY 01</p>		<p>5 of 26</p>		<p>project no. 2003</p>		<p>SDP-01-122</p>		<p>BOARD OF ARCHITECTS 6149 MICHAEL REED BORN STATE OF MARYLAND</p>	



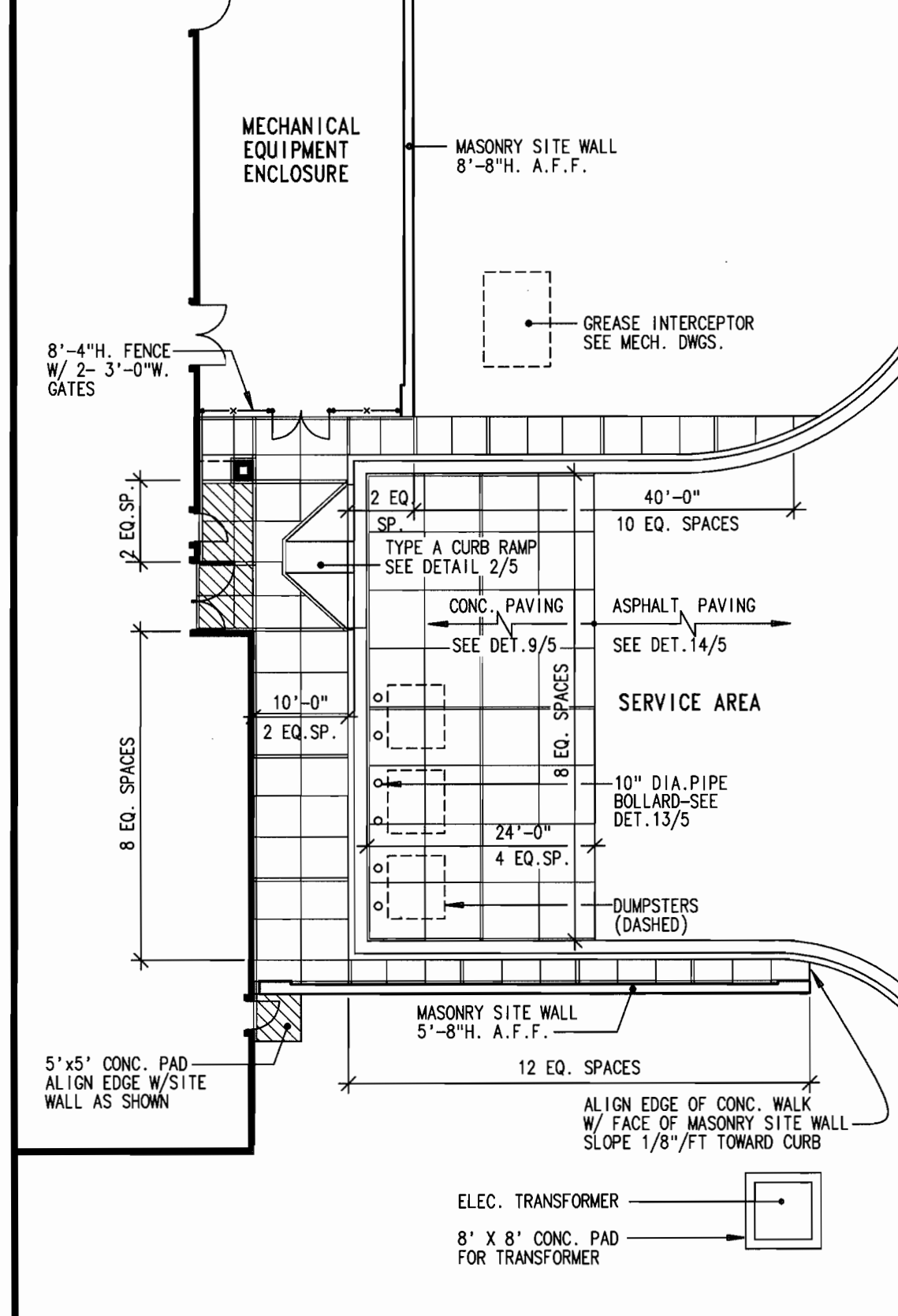
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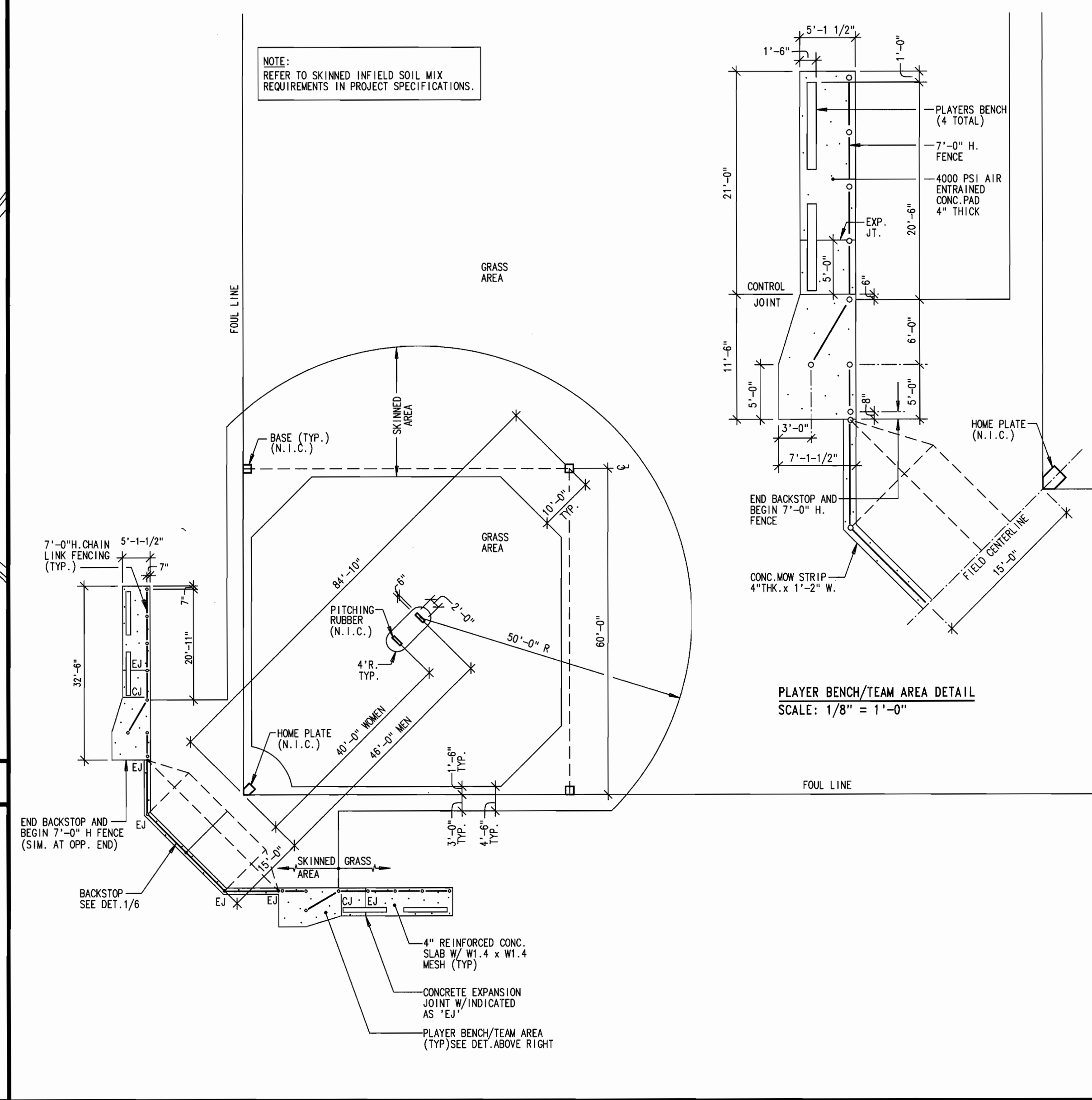
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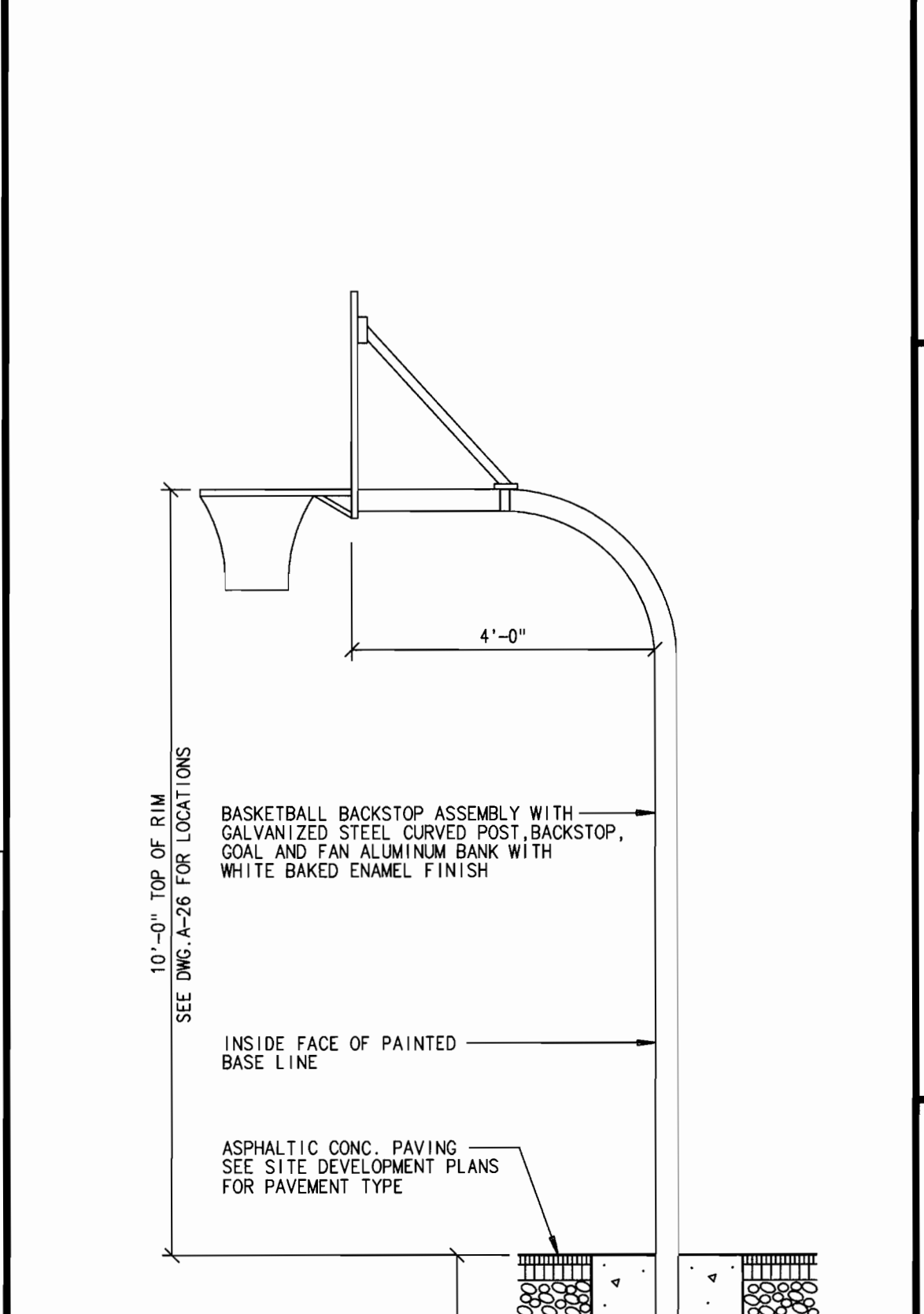
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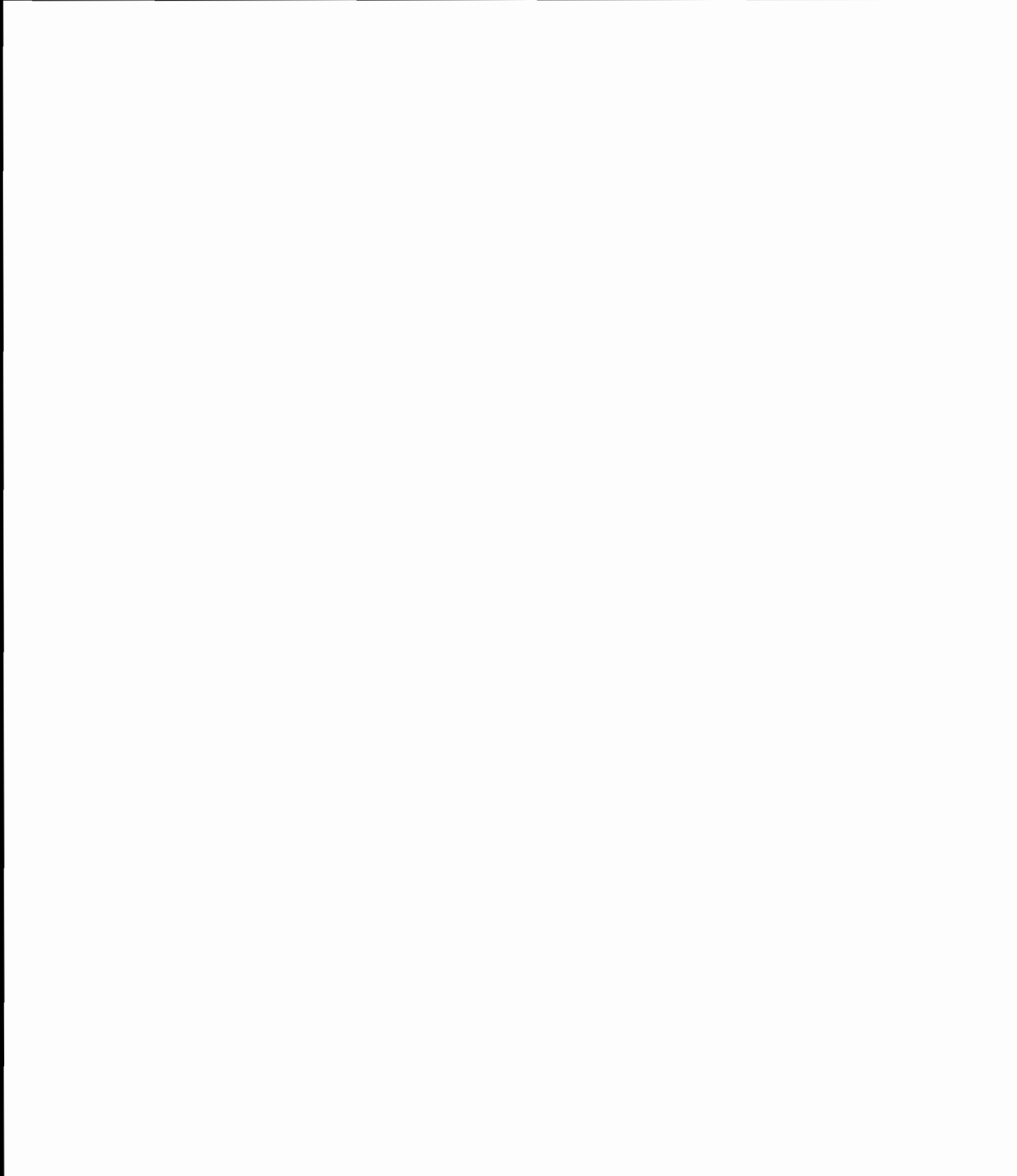
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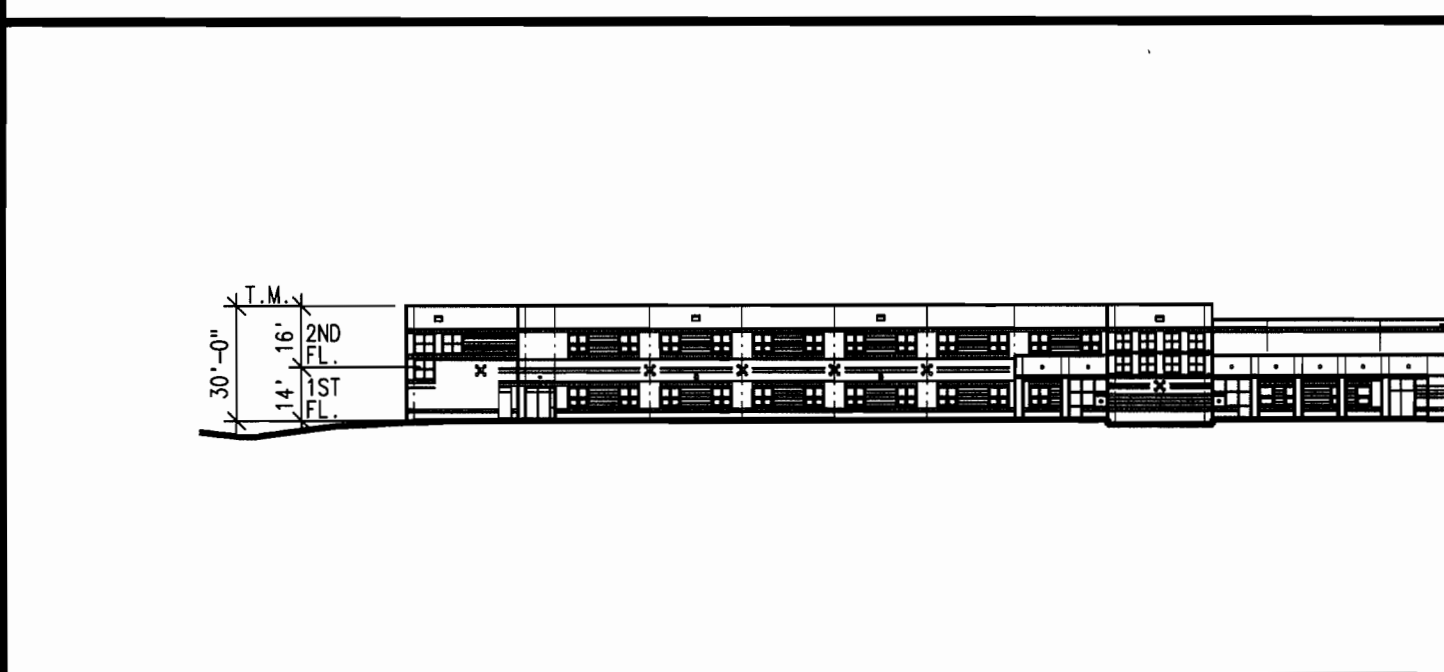
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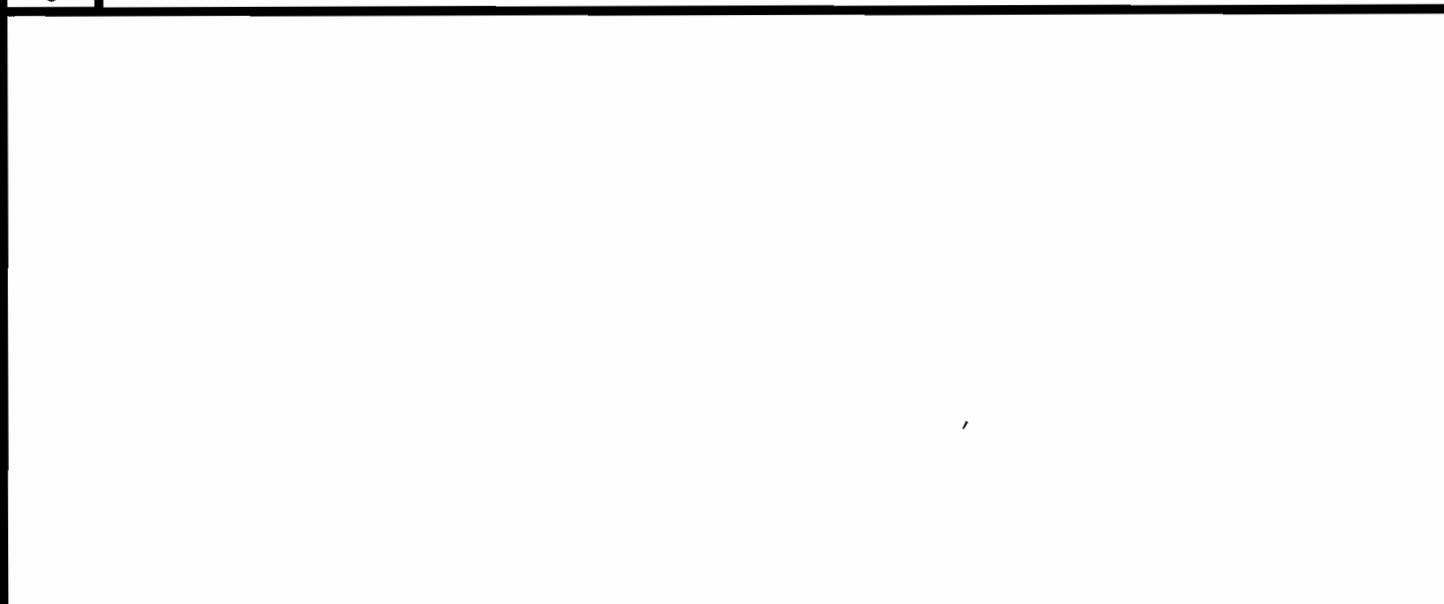
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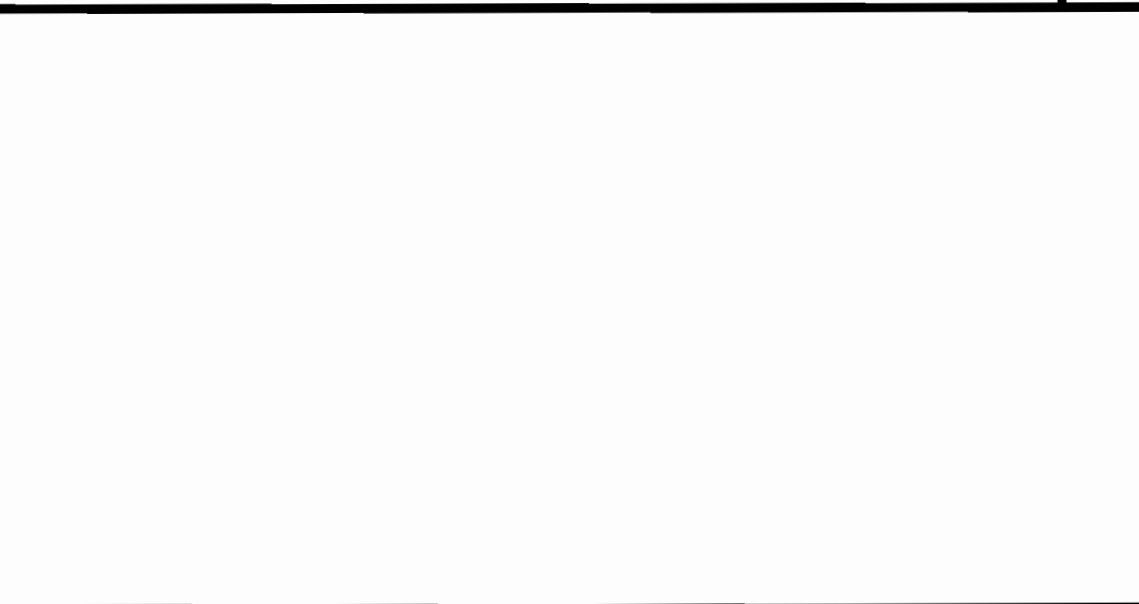
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6  
FRONT ELEVATION 1 1/50\"/>



4  
6  
FRONT ELEVATION 1 1/50\"/>



4  
6  
FRONT ELEVATION 1 1/50\"/>



4  
6  
FRONT ELEVATION 1 1/50\"/>

**TCA ARCHITECTS**  
2661 RIVA ROAD SUITE 120  
ANNAPOLIS, MARYLAND 21401  
410-841-6205

**OWNER**  
HOWARD COUNTY PUBLIC SCHOOL SYSTEM  
10910 ROUTE 108  
ELLICOTT CITY, MARYLAND 21043

APPROVED: FOR PRIVATE WATER & PRIVATE SEWERAGE SYSTEMS,  
HOWARD COUNTY HEALTH DEPARTMENT  
COUNTY HEALTH OFFICER: *[Signature]* DATE: 2/28/02

APPROVED: DEPARTMENT OF PLANNING AND ZONING  
DIRECTOR: *[Signature]* DATE: 3/5/02

CHIEF, DIVISION OF LAND DEVELOPMENT: *[Signature]* DATE: 3/5/02

CHIEF, DEVELOPMENT ENGINEERING DIVISION: *[Signature]* DATE: 3/5/02

**SITE DETAILS**

WESTERN MIDDLE SCHOOL NO.3

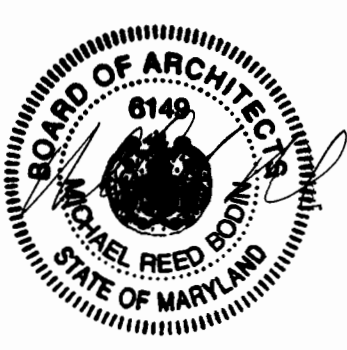
TAX MAP NO. 22  
LIBER 3813 FOLIO 173  
3RD ELECTION DISTRICT: HOWARD COUNTY, MARYLAND  
SCALE: AS SHOWN

SDP FILING  
25 MAY 01

**6 of 26**

project no. 2003

**WESTERN MIDDLE SCHOOL NO. 3**  
Howard County, Maryland  
Howard County Public School System



**tca**  
Thomas Clark Associates Architects  
Annapolis, Maryland

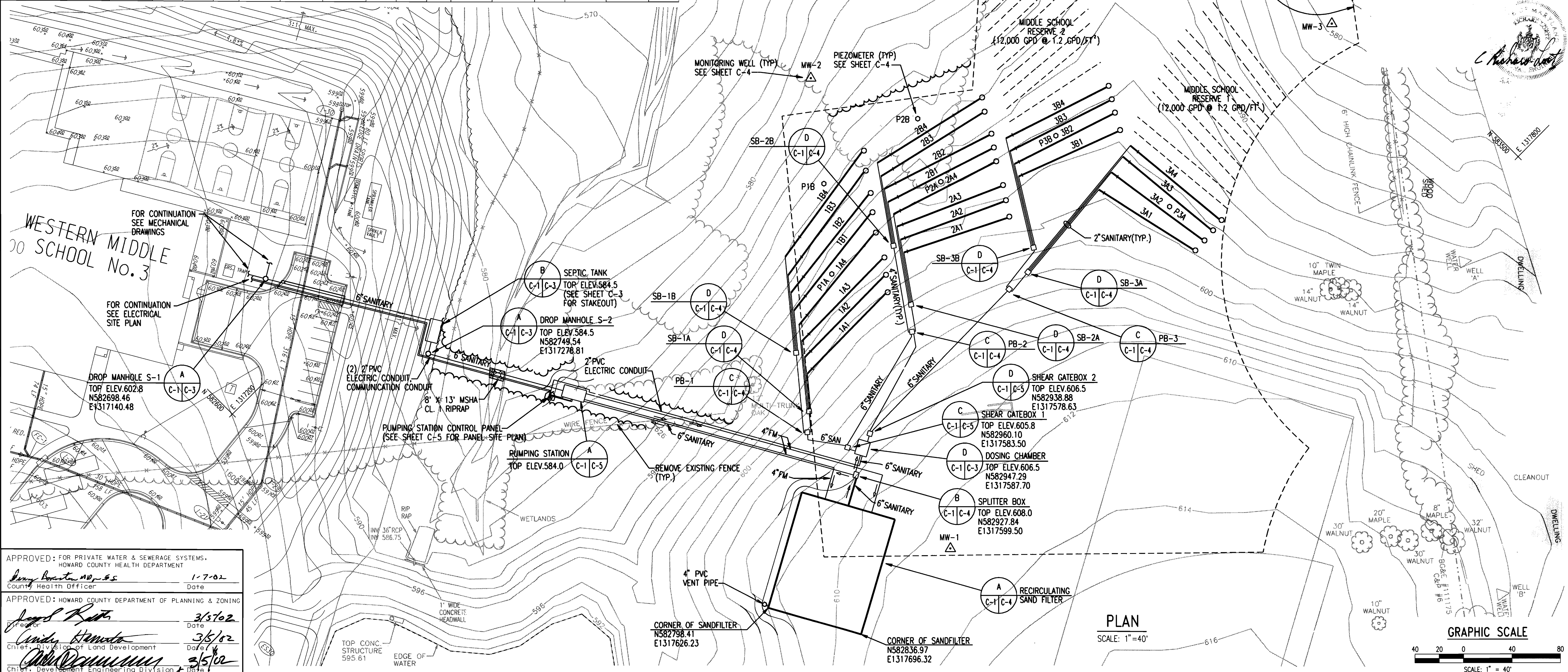
PRIMARY BOXES					SECONDARY BOXES					DISPOSAL TRENCHES								
NO.	LOCATION		TOP FRAME AND COVER	INVERT IN 'W'	INVERT OUT 'X'	NO.	LOCATION		TOP FRAME AND COVER	INVERT IN 'W'	INVERT OUT 'X'	NO.	HORIZ. BEND		INVERT 'Y'	END OF PIPE		INVERT 'Z'
	NORTHING	EASTING					NORTHING	EASTING					NORTHING	EASTING		NORTHING	EASTING	
PB-1	583001.94	1316689.95	602.5	598.00	597.90	SB1A	582937.65	1317534.88	600.5	596.80	596.60	1A1	582958.64	1317511.91	593.45	583051.43	1317510.64	593.35
												1A2	582966.56	1317500.80	592.28	583060.64	1317499.51	592.18
												1A3	582974.39	1317489.69	591.02	583069.85	1317488.39	590.92
												1A4	582982.40	1317478.57	589.85	583079.41	1317468.89	589.75
PB-2	583044.47	1317548.45	602.5	597.88	597.68	SB2A	583059.85	1317487.33	600.3	595.70	595.50	2A1	583091.57	1317487.81	591.27	583174.27	1317525.95	591.17
												2A3	583097.24	1317478.04	590.37	583181.41	1317515.42	590.27
												2A4	583102.57	1317468.76	589.47	583191.28	1317497.59	589.37
												2B1	583106.26	1317458.39	588.22	583197.92	1317488.18	588.12
PB-3	583126.12	1317580.22	602.8	598.10	597.90	SB3A	583147.07	1317581.24	601.7	597.10	596.90	3A1	583236.70	1317574.22	593.30	583256.78	1317664.04	593.20
												3A2	583254.13	1317571.55	592.60	583267.91	1317663.54	592.50
												3A3	583269.97	1317569.04	591.96	583278.88	1317662.62	591.86
												3A4	583280.83	1317567.01	591.50	583289.83	1317661.58	591.40
						SB3B	583164.70	1317570.12	599.7	595.90	595.70	3B1	583197.52	1317519.92	591.30	583281.81	1317551.63	591.20
												3B2	583202.36	1317510.19	590.47	583288.97	1317538.48	590.37
												3B3	583207.34	1317500.24	589.64	583294.93	1317528.85	589.54
												3B4	583212.31	1317490.29	588.79	583300.88	1317519.22	588.69

### ON-SITE DISPOSAL SYSTEM GENERAL NOTES

- MAXIMUM TOTAL DESIGN SEWAGE FLOW ALLOCATION: 800 STUDENTS, TEACHERS AND STAFF x 15 GPCPD = 12000 GPD TOTAL USAGE
- TRENCH DESIGN LOADING RATE = 1.2 GPD/FT<sup>2</sup>
- NO INSTALLATION SHALL COMMENCE WITHOUT APPROVAL FROM THE MARYLAND DEPARTMENT OF THE ENVIRONMENT AND HOWARD COUNTY HEALTH DEPARTMENT
- THE CONTRACTOR SHALL NOTIFY THE OWNER, THE MARYLAND DEPARTMENT OF THE ENVIRONMENT AND THE HOWARD COUNTY HEALTH DEPARTMENT A MINIMUM OF ONE WEEK PRIOR TO START OF CONSTRUCTION. ALL SUBSURFACE DISPOSAL SYSTEM COMPONENTS MUST BE STAKED OUT BY A SURVEY PARTY PRIOR TO NOTIFICATION.
- SEWAGE DISPOSAL SYSTEM CONTRACTOR TO SUBMIT AS-BUILT DRAWING OF SYSTEM INSTALLATION TO HOWARD COUNTY HEALTH DEPARTMENT PRIOR TO FINAL SEPTIC SYSTEM INSPECTION AND APPROVAL.
- APPROVAL OF SITE DEVELOPMENT PLAN PENDING APPROVAL OF A GROUND WATER DISCHARGE PERMIT BY WATER RESOURCES ADMINISTRATION.
- ALL WELLS AND SEPTIC SYSTEMS WITHIN 200 FEET OF THE WASTEWATER DISPOSAL AREA HAVE BEEN SHOWN.
- PROPOSED WASTEWATER MANAGEMENT PRETREATMENT AND DISPOSAL SYSTEM HAVE BEEN DESIGNED BY: WHITMAN, REQUARDT AND ASSOCIATES, LLP 2315 ST. PAUL STREET BALTIMORE, MARYLAND 21218

### GENERAL NOTES

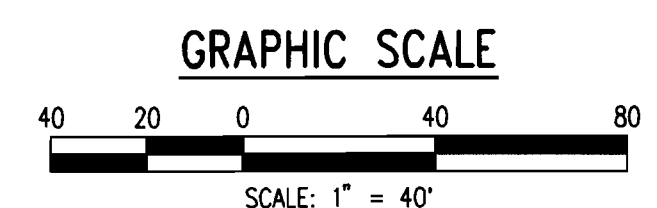
- PRECAST CONCRETE STRUCTURES SHALL BE DESIGNED FOR H-20 TRAFFIC BEARING WALL SLEEVES FOR PIPING, ACCESS HATCH AND OTHER INSERTS AS SHOWN ON THE DRAWING SHALL BE CAST INTO THE STRUCTURE AT THE PLACE OF MANUFACTURE.
- GRAVITY PIPING  
PVC, ASTM D3034, SDR-35 AND DWV-D2665 WITH SOLVENT WELD JOINTS.  
FORCE MAIN  
PVC, ASTM D1785, SCHEDULE 40 WITH SOLVENT WELD JOINTS.  
PERFORATED PIPING  
PVC, ASTM D3034, SDR-35 AND DWV-D2665 WITH SOLVENT WELD JOINTS
- WASHED GRAVEL: 1 1/2" - 2 1/2", FREE OF FINES, DUST, ASHES AND CLAY STONE BEDDING IN ACCORDANCE WITH AASHTO M43 NO. 2.
- FILTER FABRIC: TC MIRAFI 1100 OR EQUAL.
- DISPOSAL TRENCHES SHALL BE SCARIFIED WHEN EXCAVATED, BUT SHALL OTHERWISE REMAIN UNDISTURBED DURING CONSTRUCTION. DO NOT COMPACT THESE SURFACES.
- THE SIPHONS (2 REQUIRED) SHALL BE MODEL 413 SIPHON AS MANUFACTURED BY FLUID DYNAMICS, INC. OR EQUAL MINIMUM DISCHARGE RATE, GPM, 100 AVERAGE DISCHARGE RATE, GPM, 140.
- EXISTING TOPOGRAPHY AND PHYSICAL FEATURES SHOWN ARE BASED ON SURVEYS PERFORMED IN 1996 AND 2001 BY SCHMIDT, PFELTZ AND McDONALD, INC.. VERTICAL CONTROL IS BASED ON NGVD 29. HORIZONTAL CONTROL IS BASED ON NAD 83.
- MONITORING WELLS AND PIEZOMETERS SHALL BEHOWN INSTALLED AS PER DETAIL. INSTALLATION OF WELLS AND PIEZOMETERS SHALL BE BY A LICENSED MARYLAND WELL DRILLER AND SHALL OBTAIN ALL NECESSARY WELL DRILLING PERMITS.



APPROVED: FOR PRIVATE WATER & SEWERAGE SYSTEMS.  
HOWARD COUNTY HEALTH DEPARTMENT  
*Danny Bonetto* 1-7-02  
County Health Officer Date

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING  
*Janet Ratt* 3/5/02  
Date  
*Conrad Hamada* 3/5/02  
Chief, Division of Land Development Date  
*David DeWanna* 2/5/02  
Chief, Development Engineering Division Date

PLAN  
SCALE: 1"=40'



**WESTERN MIDDLE SCHOOL NO. 3**  
Howard County, Maryland  
Howard County Public School System  
West Friendship Election District No. 3

ARCHITECT  
THOMAS CLARK ASSOCIATES  
ARCHITECTS AND SITE DESIGNERS  
1800 FREDERICK ROAD, SUITE 200  
ARLINGTON, VA 22204  
ATTN: THOMAS CLARK  
TEL: 703-838-9700

OWNER  
HOWARD COUNTY PUBLIC SCHOOL SYSTEM  
1800 FREDERICK ROAD, SUITE 200  
ARLINGTON, VA 22204  
ATTN: CHARLENE YOUNG  
TEL: 410-338-9704

PREPARED FOR:  
HOWARD COUNTY PUBLIC SCHOOL SYSTEM  
1800 FREDERICK ROAD, SUITE 200  
ARLINGTON, VA 22204  
ATTN: CHARLENE YOUNG  
TEL: 410-338-9704

NO.	REVISIONS
1	BID & CONSTRUCTION 18 SEPTEMBER 01

SEPTIC SYSTEM SITE PLAN  
SCALE: 1" = 40'  
SHEET NO. 7 OF 26  
SDP-01-122











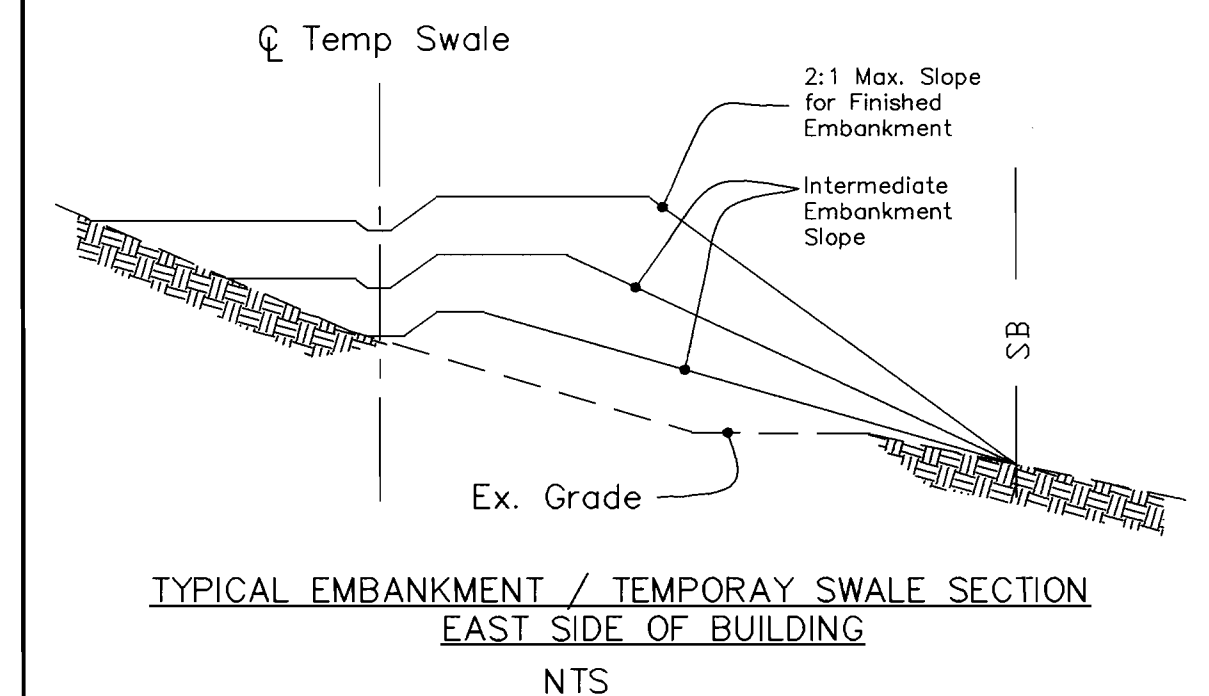


**LEGEND**

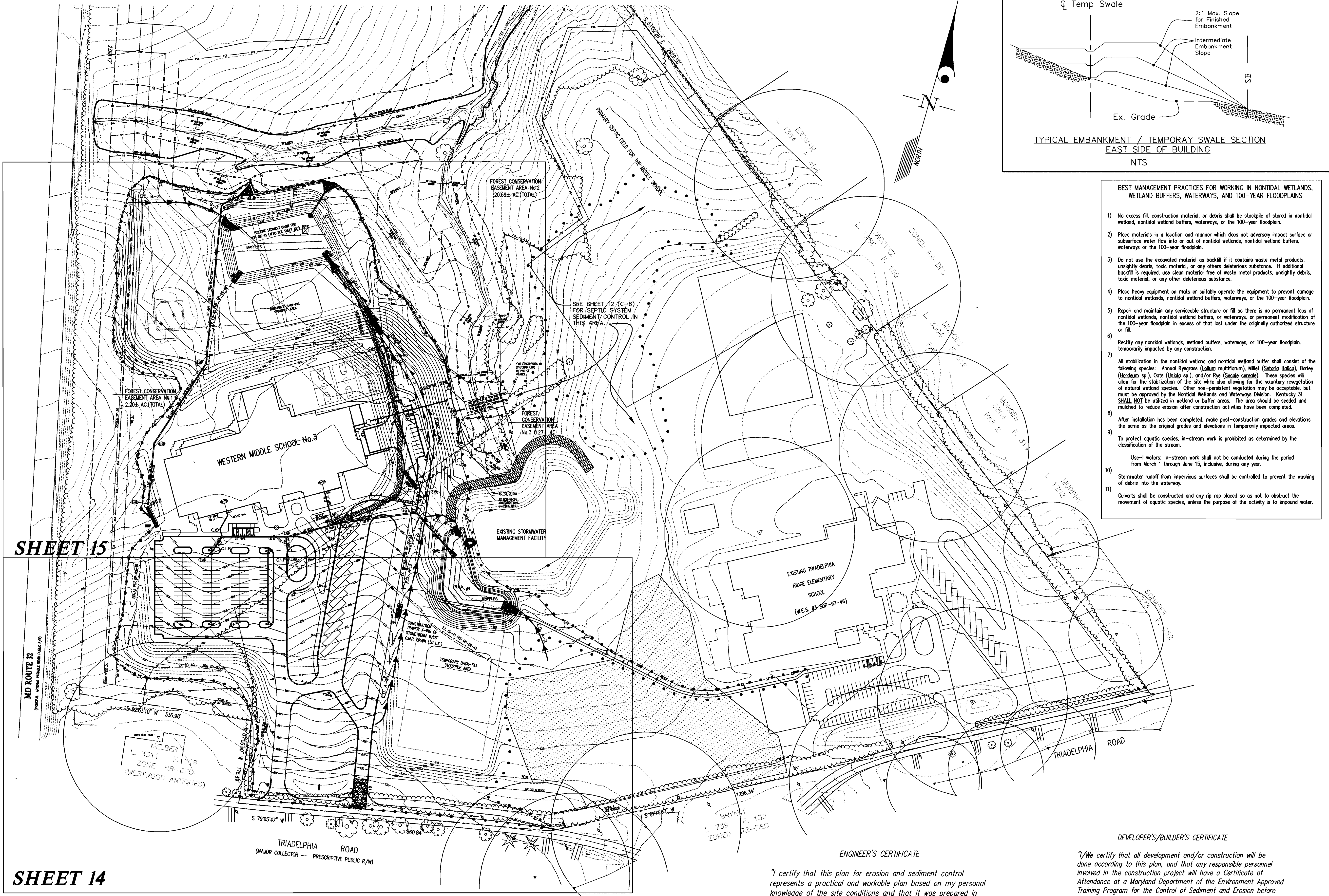
- TREE PROTECTION FENCE
- SILT FENCE
- SUPER SILT FENCE
- EARTH DIKE
- TEMPORARY SWALE
- TEMPORARY PIPE
- STABILIZED CONSTRUCTION ENTRANCE
- CURB INLET PROTECTION
- INLET BLOCK
- LIMIT OF DISTURBANCE

**SEQUENCE OF CONSTRUCTION**

1. UPDATE THE GP-02-25 GRADING PERMIT FOR THE WORK ON THIS SDP.
2. CHECK AND REPAIR AS NECESSARY ALL GP-02-25 SEDIMENT CONTROL MEASURES THAT ARE TO REMAIN IN USE FOR THE SDP CONSTRUCTION WORK.
3. INITIATE CONSTRUCTION ON THE BUILDING AND THE PORTION OF THE SITE WITHIN THE CURRENT GP-02-25 LOD.
4. CONTACT THE APPLICABLE LOCAL UTILITY COMPANY FOR THE RELOCATION OF UTILITY POLES ALONG TRIADELPHIA ROAD.
5. STAKE OUT THE EXPANDED LIMIT OF DISTURBANCE (LOD) FOR THE SDP WORK WEST OF THE NORTH BALL FIELD, THE AREA EAST OF THE MIDDLE SCHOOL AND THE SEPTIC FIELD AREA (1-DAY). RELOCATE AND/OR INSTALL TREE PROTECTION FENCE PLUS FOREST CONSERVATION SIGNS ALONG THE PORTION OF THE EXPANDED LOD (FROM #4 ABOVE) THAT IS WITHIN THE WOODLANDS (1-2 DAYS).
6. RELOCATE AND/OR INSTALL THE PERIMETER SILT FENCE AND SUPER SILT FENCE FOR THE EXPANDED SDP LOD (1-2 DAYS).
7. CHECK TO ENSURE THAT THE STORM DRAIN DIVERSION (ES-33 TO 1-37) CONSTRUCTED UNDER GP-02-25 AND ASSOCIATED EARTH DIKE/SWALE FROM 1-37 TO TRIADELPHIA ROAD IS OPERATIONAL.
8. CONSTRUCT THE SEDIMENT TRAP AND RELOCATE THE SWALE AND EARTH DIKES ON THE EAST SIDE OF THE SCHOOL (1-2 WEEKS).
9. OBTAIN PERMISSION FROM THE SEDIMENT CONTROL INSPECTOR (SCI) TO CLEAR AND GRUB THE REMAINDER OF THE WOODED AREA WITHIN THE EXPANDED LOD EAST OF THE MIDDLE SCHOOL (1 WEEK). ALSO SEE BMP'S ("BEST MANAGEMENT PRACTICES" AT RIGHT, THIS SHEET) AND SHEET 12 (C-6) FOR SEPTIC SYSTEM CONSTRUCTION SEQUENCING. PROVIDE DUST CONTROL AS NECESSARY.
10. GRADE THE REMAINDER OF THE SITE EAST OF THE MIDDLE SCHOOL AND COORDINATE INSTALLATION OF UNDER GROUND UTILITIES WITH THE GRADING OPERATION (3-4 WEEKS). NOTE, RAISE THE TEMPORARY SWALE AS THE EMBANKMENT EAST OF THE SCHOOL BUILDING IS BUILT HIGHER BY KEEPING THE TO EMBANKMENT HIGHER THAN THE SWALE (SEE TYPICAL SECTION AT RIGHT, THIS SHEET). PROVIDE DUST CONTROL AS NECESSARY.
11. INSTALL THE STORM DRAIN SYSTEM FROM ES-20 TO 1-30, 1-25 AND 1-26. TEMPORARILY BLOCK THE TOP OF INLETS 1-21 AND 1-29 AND ENSURE THAT THE TEMP SWALE TO THE SEDIMENT BASIN IS OPERATIONAL (3-4 WEEKS). IMMEDIATELY REPAIR ANY DAMAGE TO THE SWALE AND ITS EMBANKMENT, DELAY THE INSTALLATION OF THE "SPORTS EDGE" DRAIN.
12. BRING THE SITE TO APPROPRIATE SUBGRADE IN ORDER TO INSTALL CURB/GUTTER AND BASE PAVING (4-6 WEEKS). DELAY INSTALLATION OF THE BITUMINOUS PATH IN THE VICINITY OF THE TEMPORARY SWALE AND THE SEDIMENT TRAP. NOTE, THE TEMPORARY SWALE MUST REMAIN OPERATIONAL TO CONVEY RUN OFF TO THE BASIN UNTIL THE PARKING LOTS AND DRIVEWAYS ARE PAVED. PROVIDE DUST CONTROL AS NECESSARY.
13. STABILIZE ALL BARE DIRT AREA (EXCEPT THE TEMPORARY SWALE, THE BASIN, THE TRAP AND THEIR BACK FILL STOCKPILES) WITH PERMANENT SEEDING IN ACCORDANCE WITH THE SEEDING NOTES AND PROJECT SPECIFICATIONS (1-WEEK).
14. ONCE THE BUS LOOP/DRIVEWAY, PLAY COURT AND SERVICE AREA PARKING LOT ARE PAVED AND THE DITCH SECTION ALONG THE EAST SIDE OF THE BUS ENTRANCE DRIVE IS STABILIZED, OBTAIN PERMISSION FROM THE INSPECTOR TO FILL IN THE TEMPORARY SWALE. INSTALL THE "SPORTS EDGE" DRAIN AND UNBLOCK INLETS 1-21 AND 1-29 (3-5 DAYS).
15. INSTALL THE EARTH DIKE LEADING TO THE NORTHEAST CORNER OF THE SEDIMENT BASIN AND OBTAIN PERMISSION FROM THE SCI TO CLEAR, GRUB AND GRADE THE REMAINDER OF THE WOODED AREA WEST OF THE NORTH BALL FIELD. PROVIDE DUST CONTROL AS NECESSARY AND STABILIZE WITH PERMANENT SEEDING ONCE THIS AREA IS BROUGHT TO FINISHED GRADE.
16. ONCE THE AREA DRAINING TO THE BASIN HAS BEEN STABILIZED OBTAIN PERMISSION FROM THE INSPECTOR TO BACK FILL THE BASIN (1-3 DAYS). IMMEDIATELY STABILIZE THE BARE DIRT AREA IN THIS AREA WITH PERMANENT SEEDING PLUS EROSION CONTROL MATTING ON THE HILL SIDE (1-DAY).
17. FLUSH THE STORM DRAIN SYSTEM DRAINING TO ES-20 AND OBTAIN PERMISSION FROM THE INSPECTOR TO BACK FILL THE TRAP AND THEN CONVERT IT INTO A FOREBAY FOR STORM WATER MANAGEMENT AND THEN INSTALL THE MISSING SECTION OF BITUMINOUS PATH (7-10 DAYS). IMMEDIATELY STABILIZE ANY REMAINING BARE DIRT AREA IN THIS VICINITY WITH PERMANENT SEEDING PLUS EROSION CONTROL MATTING ALONG THE EMBANKMENT INTO THE FOREBAY.
18. INSTALL LANDSCAPE PLANTING AND SURFACE COURSE PAVING (THIS CAN BE DONE ANYTIME AFTER SEQUENCE #12).
19. REMOVE ANY REMAINING PERIMETER SILT FENCE OR SUPER SILT FENCE. CHECK AND CLEAN THE EXISTING SIMI FACILITY OF ANY SEDIMENT AND RESTORE THE POND TO ITS ORIGINAL DESIGN GRADE (PER SDP-91-46).
20. CHECK AND RELOCATE ALL FOREST CONSERVATION SIGNS TO THE FCE LINE. REPLACE AND INSTALL ANY DAMAGED OR MISSING SIGNS.
21. FINISH BUILDING INTERIOR WORK AND CLEAN UP.
22. OBTAIN USE AND OCCUPANCY PERMIT.



- BEST MANAGEMENT PRACTICES FOR WORKING IN NONTIDAL WETLANDS, WETLAND BUFFERS, WATERWAYS, AND 100-YEAR FLOODPLAINS**
- 1) No excess fill, construction material, or debris shall be stockpiled or stored in nontidal wetland, nontidal wetland buffers, waterways, or the 100-year floodplain.
  - 2) Place materials in a location and manner which does not adversely impact surface or subsurface water flow into or out of nontidal wetlands, nontidal wetland buffers, waterways or the 100-year floodplain.
  - 3) Do not use the excavated material as backfill if it contains waste metal products, unsightly debris, toxic material, or any other deleterious substance. If additional backfill is required, use clean material free of waste metal products, unsightly debris, toxic material, or any other deleterious substance.
  - 4) Place heavy equipment on mats or suitably operate the equipment to prevent damage to nontidal wetlands, nontidal wetland buffers, waterways, or the 100-year floodplain.
  - 5) Repair and maintain any serviceable structure or fill so there is no permanent loss of nontidal wetlands, nontidal wetland buffers, or waterways, or permanent modification of the 100-year floodplain in excess of that lost under the originally authorized structure or fill.
  - 6) Rectify any nontidal wetlands, wetland buffers, waterways, or 100-year floodplain temporarily impacted by any construction.
  - 7) All stabilization in the nontidal wetland and nontidal wetland buffer shall consist of the following species: Annual Ryegrass (*Lolium multiflorum*), Millet (*Setaria Italica*), Barley (*Hordeum sp.*), Oats (*Avena sp.*), and/or Rye (*Sesale cerasale*). These species will allow for the stabilization of the site while also allowing for the voluntary reestablishment of natural wetland species. Other non-persistent vegetation may be acceptable, but must be approved by the Nontidal Wetlands and Waterways Division, Kentucky 31 SHALL NOT be utilized in wetland or buffer areas. The area should be seeded and mulched to reduce erosion after construction activities have been completed.
  - 8) After installation has been completed, make post-construction grades and elevations the same as the original grades and elevations in temporarily impacted areas.
  - 9) To protect aquatic species, in-stream work is prohibited as determined by the classification of the stream.
  - 10) Use-inlet waters: In-stream work shall not be conducted during the period from March 1 through June 15, inclusive, during any year.
  - 11) Stormwater runoff from impervious surfaces shall be controlled to prevent the washing of debris into the waterway.
  - 12) Culverts shall be constructed and any rip rap placed so as not to obstruct the movement of aquatic species, unless the purpose of the activity is to impound water.



APPROVED: FOR PRIVATE WATER & PRIVATE SEWERAGE SYSTEMS,  
HOWARD COUNTY HEALTH DEPARTMENT  
*[Signature]* 2/15/02  
County Health Officer Date

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING  
*[Signature]* 3/5/02  
Director Date

*[Signature]* 3/5/02  
Chief, Division of Land Development Date

*[Signature]* 3/5/02  
Chief, Development Engineering Division Date

**SHEET 14**

These plans have been reviewed for the Howard Soil Conservation District and meet the technical requirements.

*[Signature]* 2/27/02  
Natural Resources Conservation Service Date

*[Signature]* 2/27/02  
Howard S.C.D. Date

**SHEET 15**

ENGINEER'S CERTIFICATE

"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."

*[Signature]* 2-15-02  
Date

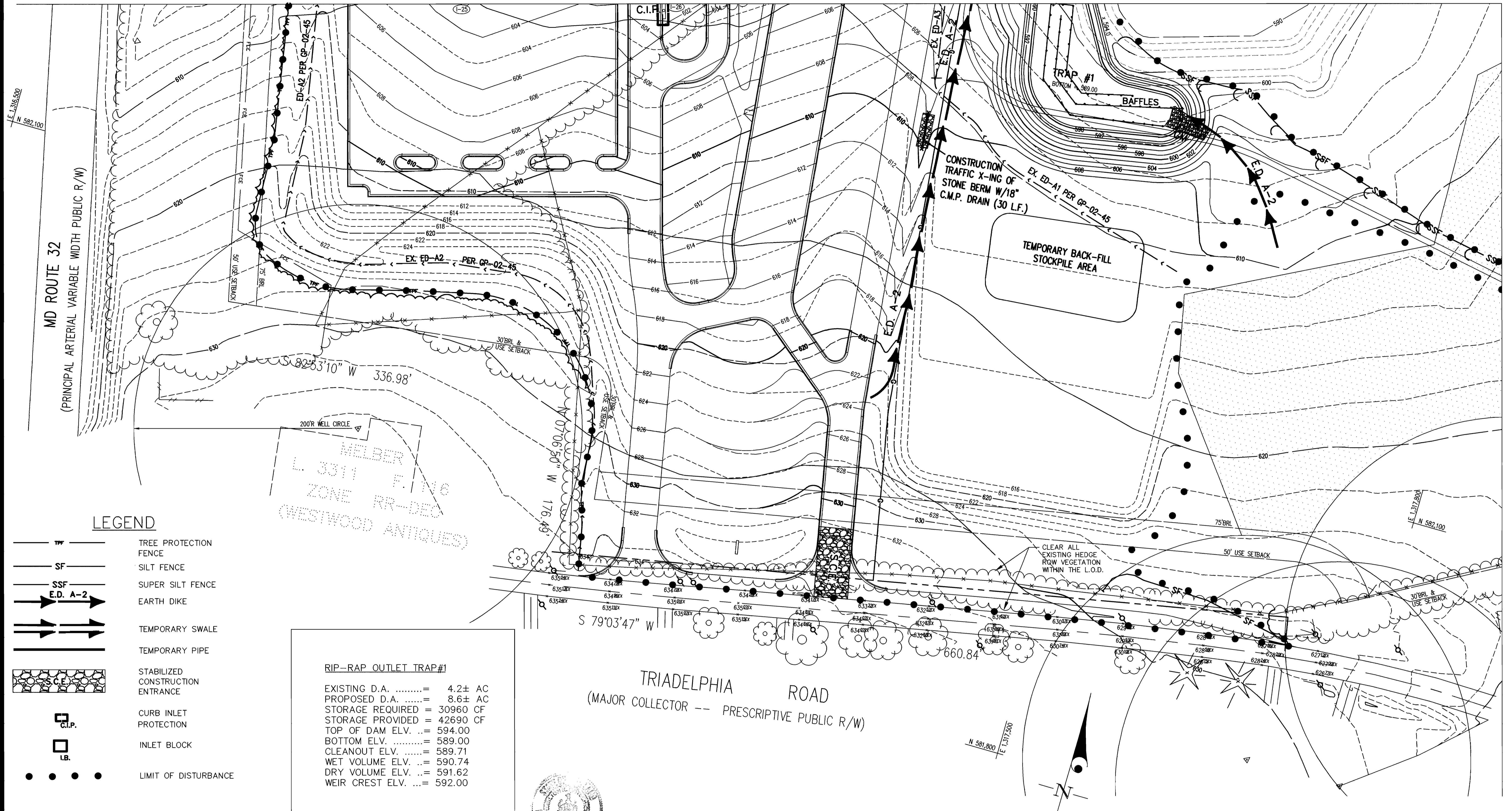
DEVELOPER'S/BUILDER'S CERTIFICATE

"I/We certify that all development and/or construction will be done according to this plan, and that any responsible personnel involved in the construction project will have a Certificate of Attendance at a Maryland Department of the Environment Approved Training Program for the Control of Sediment and Erosion before beginning the project. I also authorize periodic on-site inspection by the HSCD."

*[Signature]* 02.14.02  
Signature of Developer/Builder Date

<b>GLW GUTSCHICK LITTLE &amp; WEBER, P.A.</b> CIVIL ENGINEERS, LAND SURVEYORS, LAND PLANNERS, LANDSCAPE ARCHITECTS 3909 NATIONAL DRIVE - SUITE 250 - BURTONSVILLE OFFICE PARK BURTONSVILLE, MARYLAND 20866 TEL: 301-421-4024 BALT: 410-889-1820 DC/VA: 301-589-2524 FAX: 301-421-4186			PREPARED FOR: OWNER: HOWARD COUNTY PUBLIC SCHOOL SYSTEM 10910 ROUTE 108 ELICOTT CITY, MD 21043 ATTN: CATHEEN YOUNG TEL: 410-313-6704			<b>SEDIMENT CONTROL OVERVIEW</b> <b>WESTERN MIDDLE SCHOOL No. 3</b> <b>HOWARD COUNTY PUBLIC SCHOOL SYSTEM</b> L. 3813 F.173			SCALE 1"=100'	ZONING RR-DEO	G. L. W. FILE No. 00-161
DATE: 12/FEB/02			DATE: 12/FEB/02			TAX MAP - GRID 22 8			SHEET 13 of 27		
\DRAWINGS\00161\DESIGN\SDP's\00161sc0.dwg			DES.			DRN.			CHK.		
DATE			REVISION			BY			APP'R.		

BID & CONSTRUCTION  
19 SEPTEMBER 01

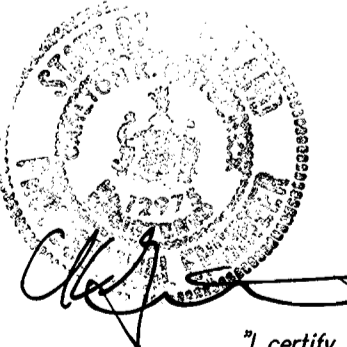


**LEGEND**

- TREE PROTECTION FENCE
- SILT FENCE
- SUPER SILT FENCE
- EARTH DIKE
- TEMPORARY SWALE
- TEMPORARY PIPE
- STABILIZED CONSTRUCTION ENTRANCE
- CURB INLET PROTECTION
- INLET BLOCK
- LIMIT OF DISTURBANCE

**RIP-RAP OUTLET TRAP #1**

EXISTING D.A. .... = 4.2± AC  
 PROPOSED D.A. .... = 8.6± AC  
 STORAGE REQUIRED = 30960 CF  
 STORAGE PROVIDED = 42690 CF  
 TOP OF DAM ELV. ... = 594.00  
 BOTTOM ELV. .... = 589.00  
 CLEANOUT ELV. .... = 589.71  
 WET VOLUME ELV. ... = 590.74  
 DRY VOLUME ELV. ... = 591.62  
 WEIR CREST ELV. ... = 592.00



**ENGINEER'S CERTIFICATE**

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.

**DEVELOPER'S/BUILDER'S CERTIFICATE**

I/We certify that all development and/or construction will be done according to this plan, and that any responsible personnel involved in the construction project will have a Certificate of Attendance at a Maryland Department of the Environment Approved Training Program for the Control of Sediment and Erosion before beginning the project. I also authorize periodic on-site inspection by the HSDC.

APPROVED: FOR PRIVATE WATER & PRIVATE SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT  
 County Health Officer *[Signature]* Date 2/27/02

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING  
 Director *[Signature]* Date 3/5/02  
 Chief, Division of Land Development *[Signature]* Date 3/5/02  
 Chief, Development Engineering Division *[Signature]* Date 2/5/02

These plans have been reviewed for the Howard Soil Conservation District and meet the technical requirements.  
 Jim Meyer / 6 2/27/02  
 Natural Resources Conservation Service / Date

This Development Plan is approved for Soil Erosion and Sediment Control by the Howard Soil Conservation District.  
*[Signature]* 2/27/02  
 (Howard S.C.D.) / Date

*[Signature]* 2-15-02  
 Date

*[Signature]* 02-14-02  
 Signature of Developer/Builder Date

**THIS PLAN IS FOR SEDIMENT CONTROL ONLY!**

BID & CONSTRUCTION 19 SEPTEMBER 01

**GLW GUTSCHICK LITTLE & WEBER, P.A.**  
 CIVIL ENGINEERS, LAND SURVEYORS, LAND PLANNERS, LANDSCAPE ARCHITECTS  
 3909 NATIONAL DRIVE - SUITE 250 - BURTONSVILLE OFFICE PARK  
 BURTONSVILLE, MARYLAND 20866  
 TEL: 301-421-4024 BALT: 410-880-1820 DC/VA: 301-989-2524 FAX: 301-421-4186

DATE	REVISION	BY	APP'R.

OWNER  
 HOWARD COUNTY PUBLIC SCHOOL SYSTEM  
 10010 ROUTE 108  
 ELLICOTT CITY, MD 21043  
 ATTN: CATHEEN YOUNG  
 TEL: 410-313-6704

ARCHITECT  
 THOMAS CLARK ASSOCIATES  
 ARCHITECTS  
 2661 RIVA ROAD, SUITE 120  
 ANNAPOLIS, MD 21401  
 ATTN: THOMAS CLARK  
 TEL: 301-261-8700

**SEDIMENT & EROSION CONTROL PLAN**

**WESTERN MIDDLE SCHOOL No. 3**  
 HOWARD COUNTY PUBLIC SCHOOL SYSTEM  
 L. 3813 F173

WEST FRIENDSHIP ELECTION DISTRICT No. 3  
 HOWARD COUNTY, MARYLAND

SCALE	ZONING	G. L. W. FILE No.
1" = 40'	RR-DEO	00-161
DATE	TAX MAP - GRID	SHEET
12/FEB/02	22 8	14 of 27

(SEE DETAIL ON SHEET 4 FOR CONTINUATION OF BITUMINOUS PATH TO THE ELEMENTARY SCHOOL)

**LEGEND**

- TF TREE PROTECTION FENCE
- SF SILT FENCE
- SSF SUPER SILT FENCE
- E.D. A-2 EARTH DIKE
- TEMPORARY SWALE
- TEMPORARY PIPE
- S.C.E. STABILIZED CONSTRUCTION ENTRANCE
- C.I.P. CURB INLET PROTECTION
- I.B. INLET BLOCK
- LIMIT OF DISTURBANCE
- EROSION CONTROL MATTING

This Development Plan is approved for Soil Erosion and Sediment Control by the Howard Soil Conservation District.

*[Signature]* 2/22/02  
Howard S.C.D. Date

These plans have been reviewed for the Howard Soil Conservation District and meet the technical requirements.

*[Signature]* 2/22/02  
Natural Resources Conservation Service Date

**DEVELOPER'S/BUILDER'S CERTIFICATE**

I/We certify that all development and/or construction will be done according to this plan, and that any responsible personnel involved in the construction project will have a Certificate of Attendance at a Maryland Department of the Environment Approved Training Program for the Control of Sediment and Erosion before beginning the project. I also authorize periodic on-site inspection by the HSCD.

*[Signature]* 02-14-02  
Signature of Developer/Builder Date

**ENGINEER'S CERTIFICATE**

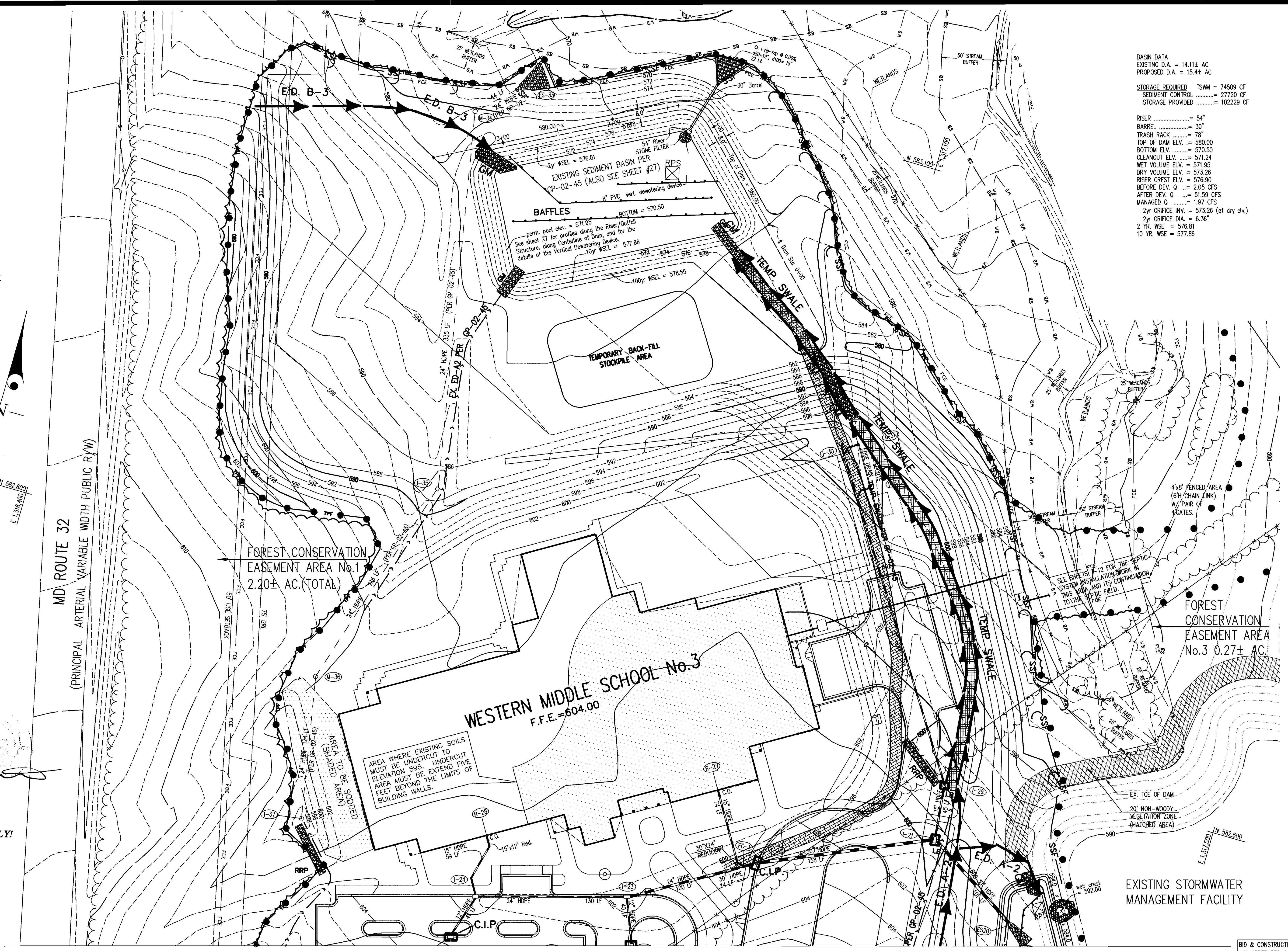
I certify that this plan for erosion and sediment control represents a practical and workable plan based on my personal knowledge of the site conditions and that it was prepared in accordance with the requirements of the Howard Soil Conservation District.

*[Signature]* 2-15-02  
Date

**THIS PLAN IS FOR SEDIMENT CONTROL ONLY!**

APPROVED: FOR PRIVATE WATER & PRIVATE SEWERAGE SYSTEMS,  
HOWARD COUNTY HEALTH DEPARTMENT  
*[Signature]* 2/28/02  
County Health Officer Date

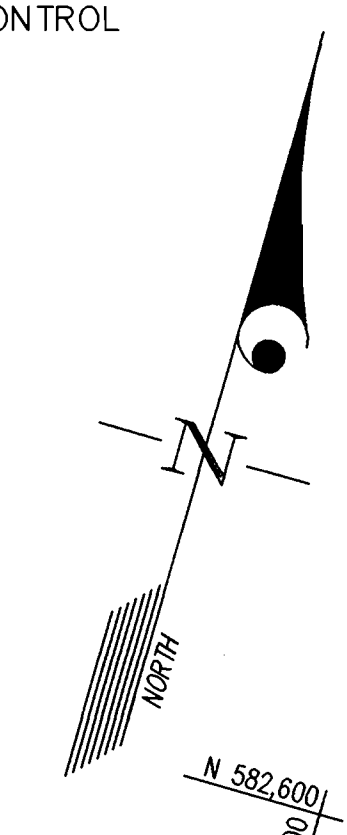
APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING  
*[Signature]* 3/6/02  
Date  
*[Signature]* 3/5/02  
Date  
*[Signature]* 3/5/02  
Date  
Chief, Development Engineering Division



**BASIN DATA**  
EXISTING D.A. = 14.11± AC  
PROPOSED D.A. = 15.4± AC

**STORAGE REQUIRED** TSWM = 74509 CF  
**SEDIMENT CONTROL** = 27720 CF  
**STORAGE PROVIDED** = 102229 CF

RISER = 54"  
BARREL = 30"  
TRASH RACK = 78"  
TOP OF DAM ELV. = 580.00  
BOTTOM ELV. = 570.50  
CLEANOUT ELV. = 571.24  
WET VOLUME ELV. = 571.95  
DRY VOLUME ELV. = 573.26  
RISER CREST ELV. = 576.90  
BEFORE DEV. Q. = 2.05 CFS  
AFTER DEV. Q. = 51.59 CFS  
MANAGED Q. = 1.97 CFS  
2yr ORIFICE INV. = 573.26 (at dry elev.)  
2yr ORIFICE DIA. = 6.36"  
10 YR. WSE = 576.81  
10 YR. WSE = 577.86



MD ROUTE 32  
(PRINCIPAL ARTERIAL VARIABLE WIDTH PUBLIC R/W)

FOREST CONSERVATION  
EASEMENT AREA No.1  
2.20± AC.(TOTAL)

WESTERN MIDDLE SCHOOL No.3  
F.F.E.=604.00

FOREST CONSERVATION  
EASEMENT AREA  
No.3 0.27± AC.

EXISTING STORMWATER  
MANAGEMENT FACILITY

JOINS SHEET No.14 (MATCH LINE IS ALONG PARKING SPACE STRIPING)

THIS PLAN IS FOR SEDIMENT CONTROL ONLY!

BID & CONSTRUCTION  
19 SEPTEMBER 01

**GLW GUTSCHICK LITTLE & WEBER, P.A.**  
CIVIL ENGINEERS, LAND SURVEYORS, LAND PLANNERS, LANDSCAPE ARCHITECTS  
3909 NATIONAL DRIVE - SUITE 250 - BURTONSVILLE OFFICE PARK  
BURTONSVILLE, MARYLAND 20866  
TEL: 301-421-4024 BALT: 410-880-1820 DC/VA: 301-989-2524 FAX: 301-421-4186  
CADD\DRAWING\00161\DESIGN\SDP\5\00161sc.dwg DES. DRN. CHK.

DATE	REVISION	BY	APP'R.

OWNER  
HOWARD COUNTY PUBLIC  
SCHOOL SYSTEM  
10910 ROUTE 108  
ELICOTT CITY, MD 21043  
ATTN: CARLEEN YOUNG  
TEL: 410-313-6704

PREPARED FOR:  
ARCHITECT  
THOMAS CLARK ASSOCIATES  
ARCHITECTS  
2661 RIVA ROAD, SUITE 120  
ANNAPOLIS, MD 21401  
ATTN: THOMAS CLARK  
TEL: 301-261-8700

**SEDIMENT & EROSION CONTROL PLAN**  
**WESTERN MIDDLE SCHOOL No. 3**  
**HOWARD COUNTY PUBLIC SCHOOL SYSTEM**  
L 3813 P173  
WEST FRIENDSHIP ELECTION DISTRICT No. 3  
HOWARD COUNTY, MARYLAND

SCALE	ZONING	G. L. W. FILE No.
1" = 40'	RR-DEO	00-161
DATE	TAX MAP - GRID	SHEET
12/FEB/02	22 8	15 of 27





STANDARD AND SPECIFICATIONS  
FOR TOPSOIL DEFINITION

Placement of topsoil over a prepared subsoil prior to establishment of permanent vegetation.

PURPOSE

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.

CONDITIONS WHERE PRACTICE APPLIES

- I. This practice 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.
- II. For the purpose of these Standards and Specifications, areas having slopes steeper than 2:1 require special consideration and design for adequate stabilization. Areas having slopes steeper than 2:1 shall have the appropriate stabilization shown on the plans.

CONSTRUCTION AND MATERIAL SPECIFICATIONS

- I. Topsoil salvaged from the existing site may be used provided that 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 respective soil profile section in the Soil Survey published by USDA-SCS in cooperation with Maryland Agricultural Experiment Station.
  - i. Topsoil shall be a loam, sandy loam, clay loam, silt loam, sandy clay loam, loamy sand. Other soils may be used if recommended by an agronomist or soil scientist and approved by the appropriate approval authority. Regardless, topsoil shall not be a mixture of contrasting textured subsoils and shall contain less than 5% by volume of cinders, stones, slag, coarse fragments, gravel, sticks, roots, trash, or other materials larger than 1 1/2" in diameter.
  - ii. Topsoil must be free of plant parts such as bermuda grass, quackgrass, Johnsongrass, nutsedge, poison ivy, thistle, or others as specified.
  - iii. Where the subsoil is either highly acidic or composed of heavy clays, ground limestone shall be spread at the rate of 4-8 tons/acre (200-400 pounds per 1,000 square feet) prior to the placement of topsoil. Lime shall be distributed uniformly over designated areas and worked into the soil in conjunction with tillage operations as described in the following procedures.
- II. For sites having disturbed areas under 5 acres:
  - i. Place topsoil (if required) and apply soil amendments as specified in 2.0 Vegetative Stabilization - Section 1 - Vegetative Stabilization Methods and Materials.
- III. For sites having disturbed areas over 5 acres:
  - i. On soil meeting topsoil specifications, obtain test results dictating fertilizer and lime amendments required to bring the soil into compliance with the following:
    - a. pH for topsoil shall be between 6.0 and 7.5. If the tested soil demonstrates a pH of less than 6.0, sufficient lime shall be prescribed to raise the pH to 6.5 or higher.
    - b. Organic content of topsoil shall be not less than 1.5 percent by weight.
    - c. Topsoil having soluble salt greater than 500 parts per mill shall not be used.
    - d. No sod or seed shall be placed on soil which has been with soil sterilants or chemicals used for weed control until sufficient time has elapsed (14 days min.) to permit dissipation of photo-toxic materials.
  - ii. Place topsoil (if required) and apply soil amendments as specified in 2.0 Vegetative Stabilization - Section 1 - Vegetative Stabilization Methods and Materials.

- V. Topsoil Application
  - i. When topsoiling, maintain needed erosion and sediment control practices such as diversion, Grade Stabilization Structures, Earth Dikes, Slope Silt Fence and Sediment Traps and Basins.
  - ii. Grades on the areas to be topsoiled, which have been previously established, shall be maintained, albeit 4" - 8" higher in elevation.
  - iii. Topsoil shall be uniformly distributed in a 4" - 8" layer and lightly compacted to a minimum thickness of 4". Spreading shall 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 shall be corrected in order to prevent the formation of depressions or water.
  - iv. Topsoil shall not be placed while the topsoil or subsoil is frozen or muddy condition, when the subsoil is excessively wet or in a condition that may otherwise be detrimental to proper grading and seeded preparation.
- VI. Alternative for Permanent Seeding - Instead of applying the full amounts of lime and commercial fertilizer, composted sludge and amendments may be applied as specified below:
  - i. Composted Sludge Material for use as a soil conditioner for sites having disturbed areas over 5 acres shall be tested to prescribe amendments and for sites having disturbed areas under 5 acres shall conform to the following requirements:
    - a. Composted sludge shall be supplied by, or originate from, a person or persons that are permitted (at the time of acquisition of the compost) by the Maryland Department of the Environment under COMAR 26.04.06.
    - b. Composted sludge shall contain at least 1 percent nitrogen, 1.5 percent phosphorus, and 0.2 percent potassium and have a Ph of 7.0 to 8.0. If compost does not meet these requirements, the appropriate constituents must be added to meet the requirements prior to use.
    - c. Composted sludge shall be applied at a rate of 1 ton/1,000 square feet.
    - iv. Composted sludge shall be amended with a potassium fertilizer applied at a rate of 4lb/1,000 square feet, and 1/3 the normal lime application rate.

References: Guideline Specifications, Soil Preparation and Sodding, MD-VA Pub. #1, Cooperative Extension Service, University of Maryland and Virginia Polytechnic Institutes. Revised 1973.

DEVELOPER'S/BUILDER'S CERTIFICATE

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Signature of Developer/Builder: *[Signature]* Date: 02.14.02

ENGINEER'S CERTIFICATE

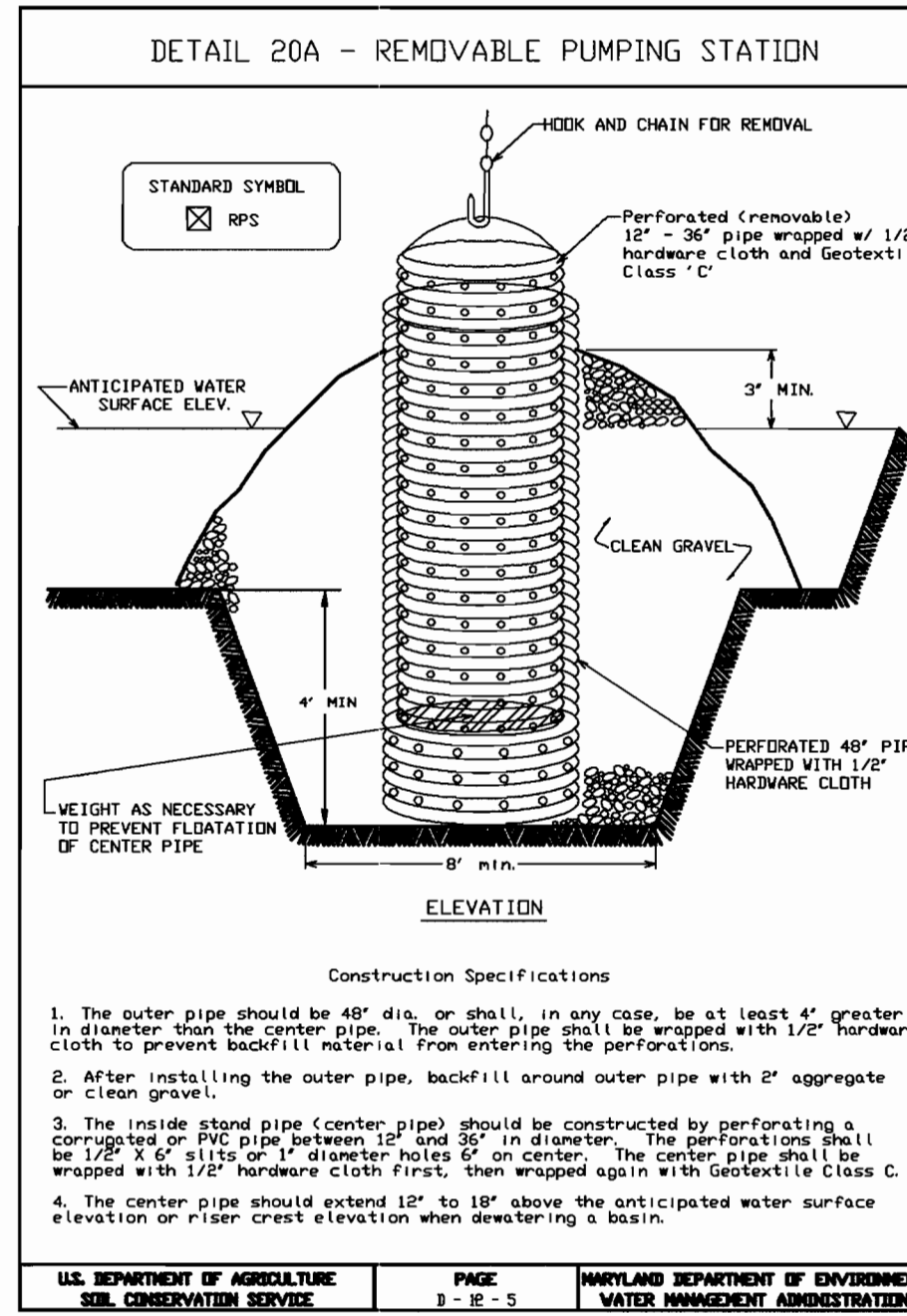
"I certify that this plan for erosion and sediment control represents a practical and workable plan based on my personal knowledge of the site conditions and that it was prepared in accordance with the requirements of the Howard Soil Conservation District."

Signature: *[Signature]* Date: 2/15/02

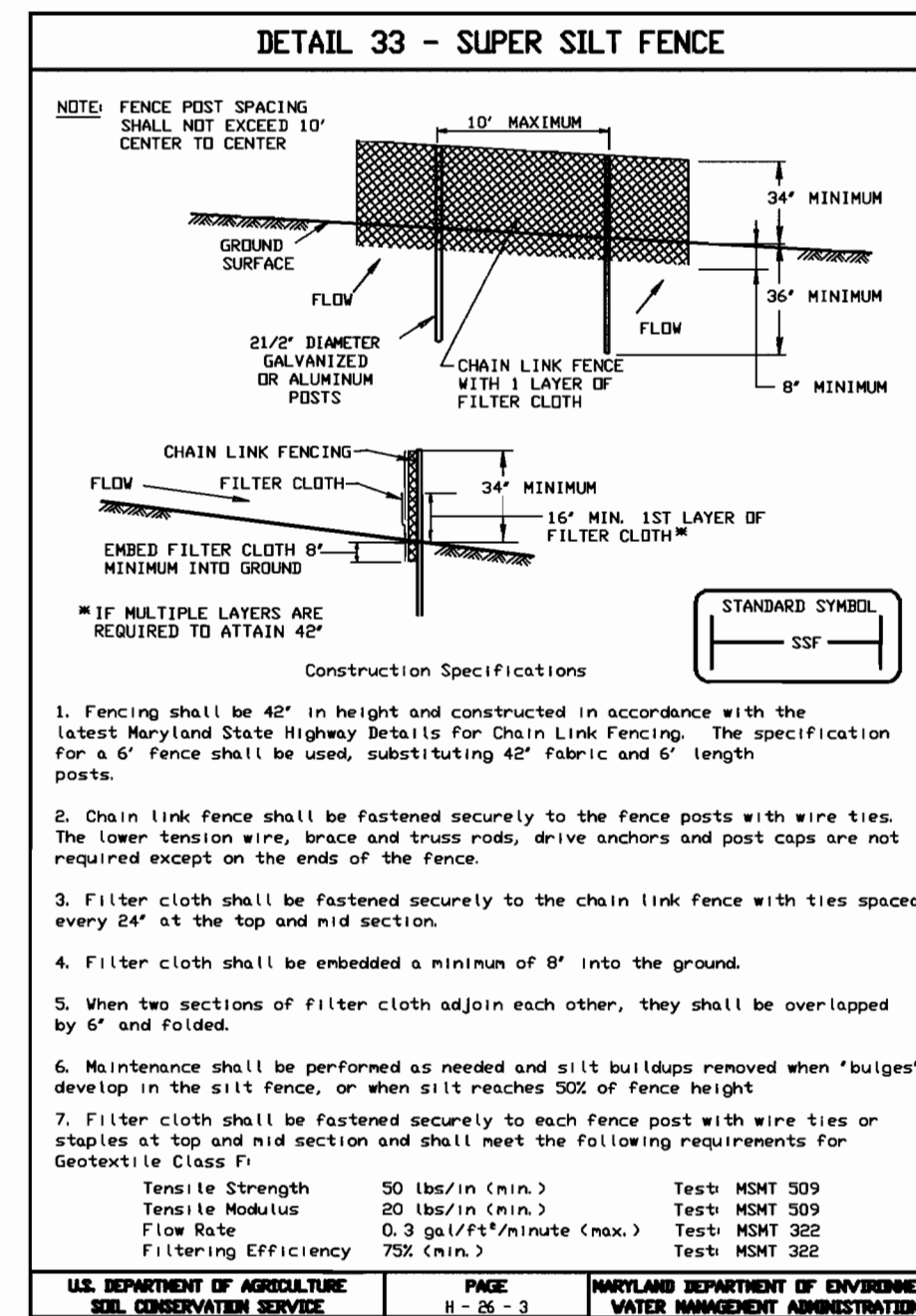
This Development Plan is approved for Soil Erosion and Sediment Control by the Howard Soil Conservation District.

These plans have been reviewed for the Howard Soil Conservation District and meet the technical requirements.

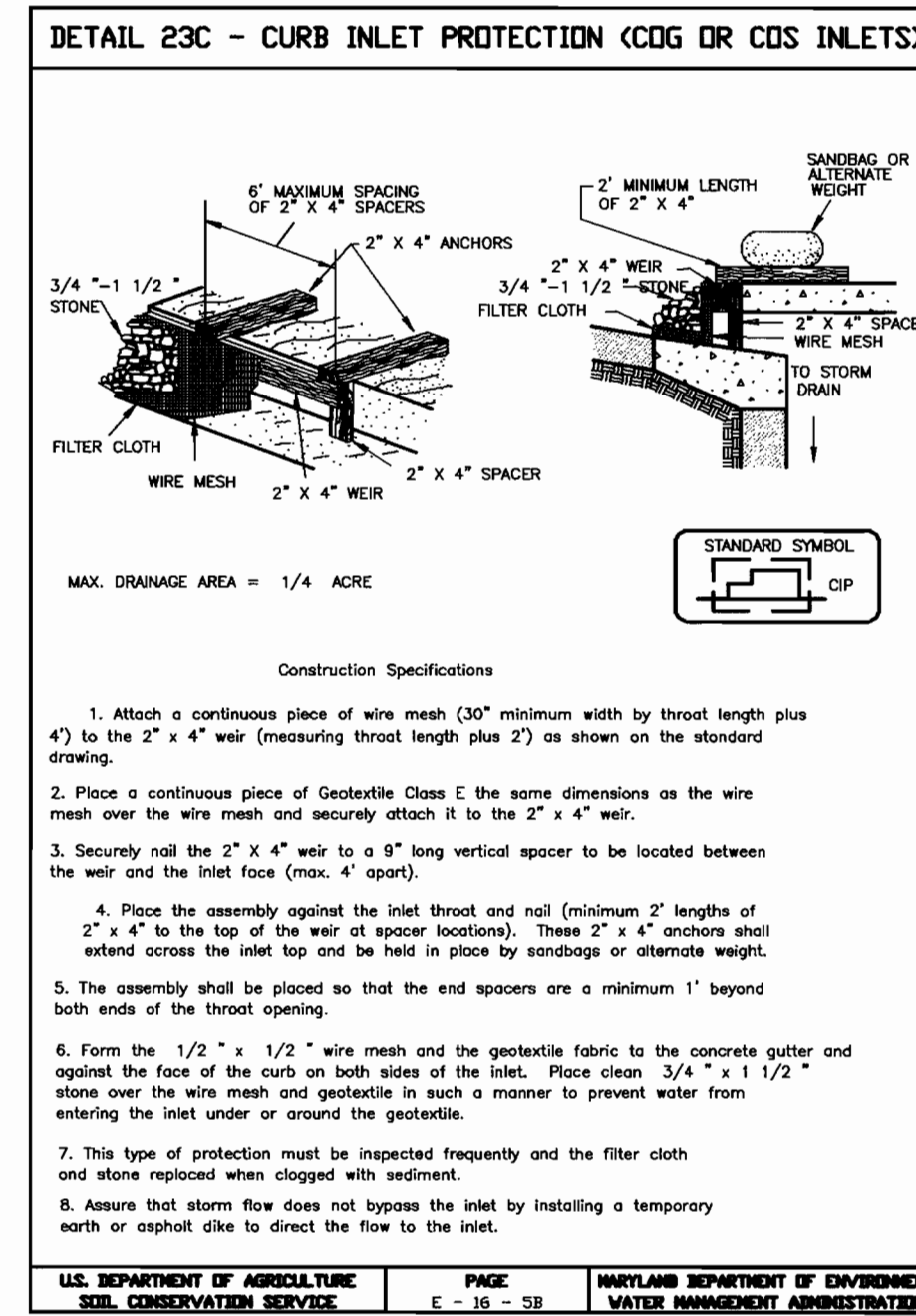
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Signature: *[Signature]* Date: 2/27/02



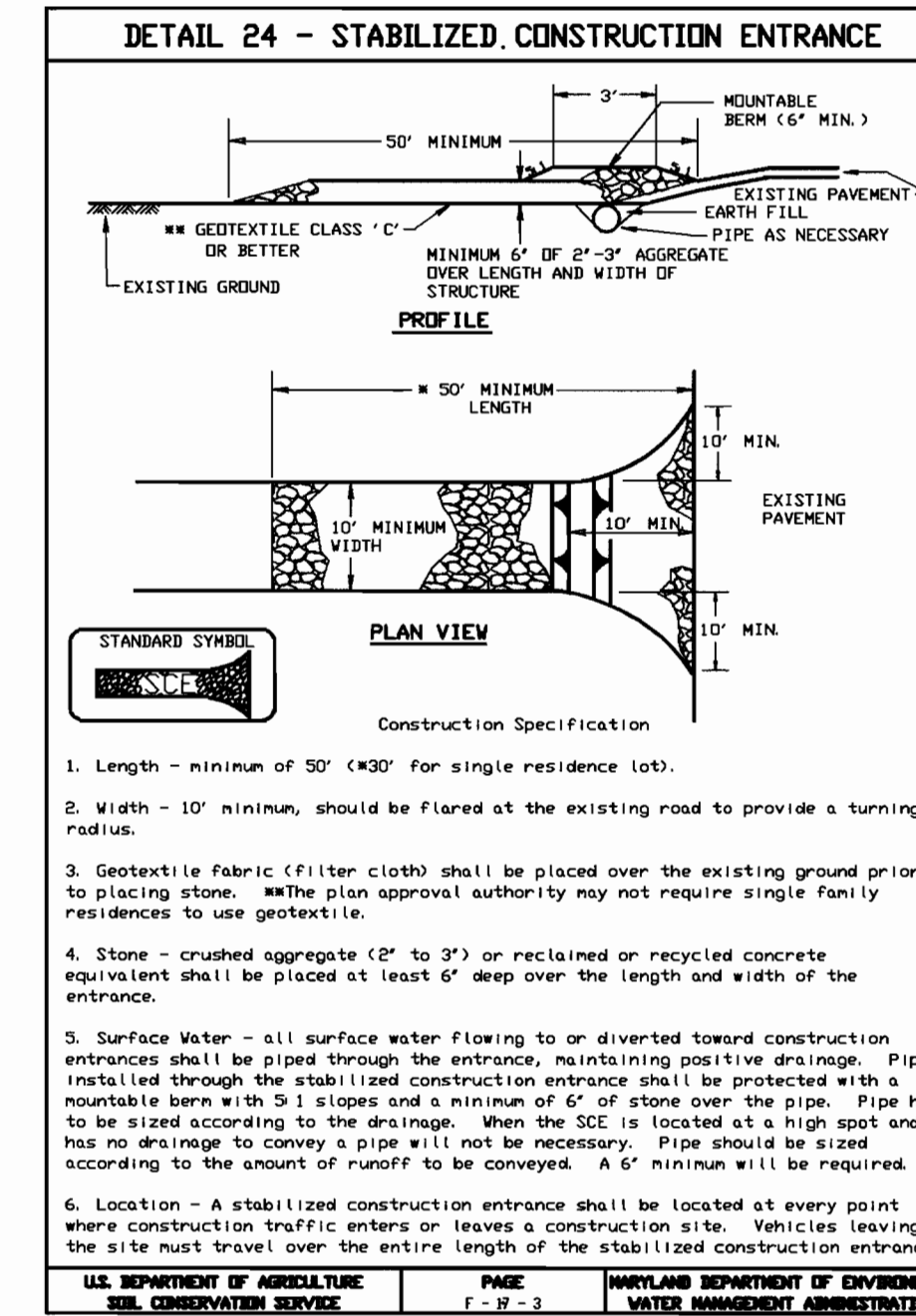
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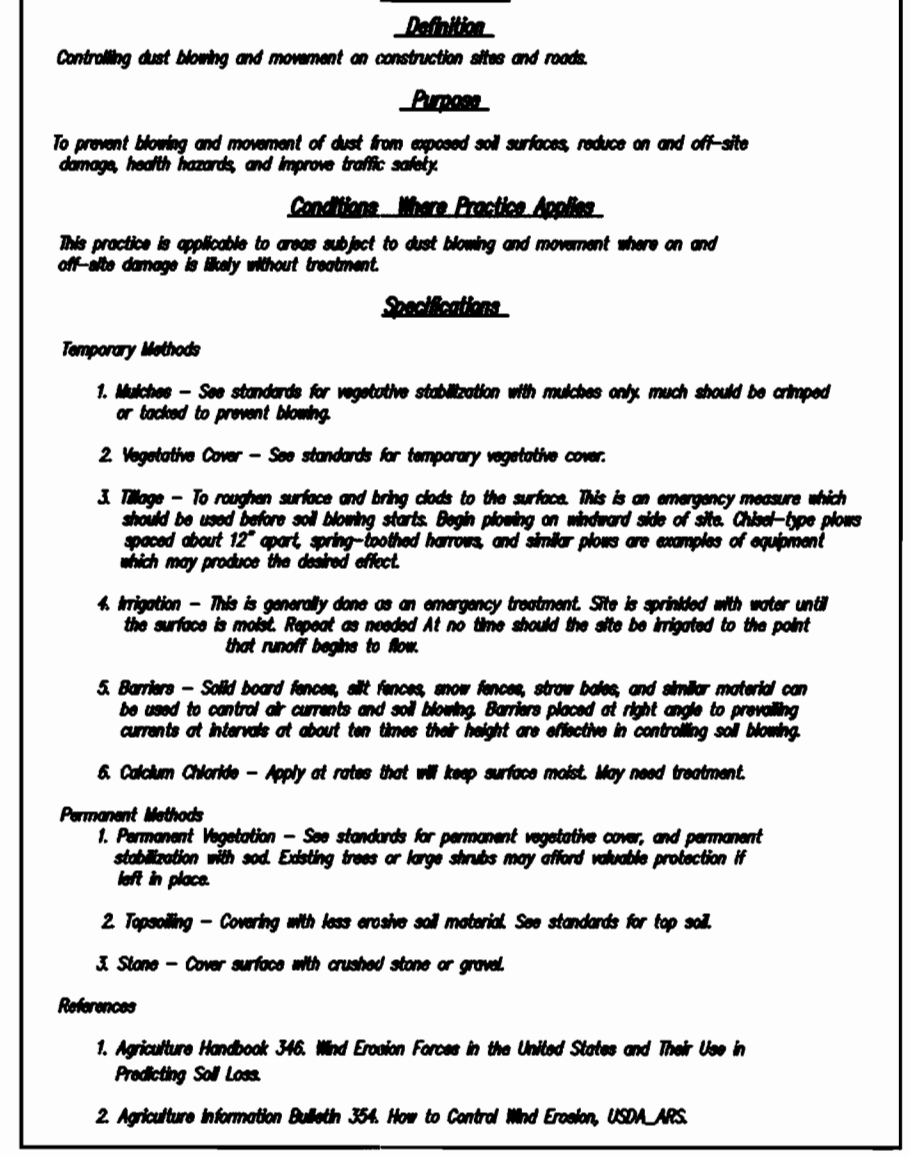
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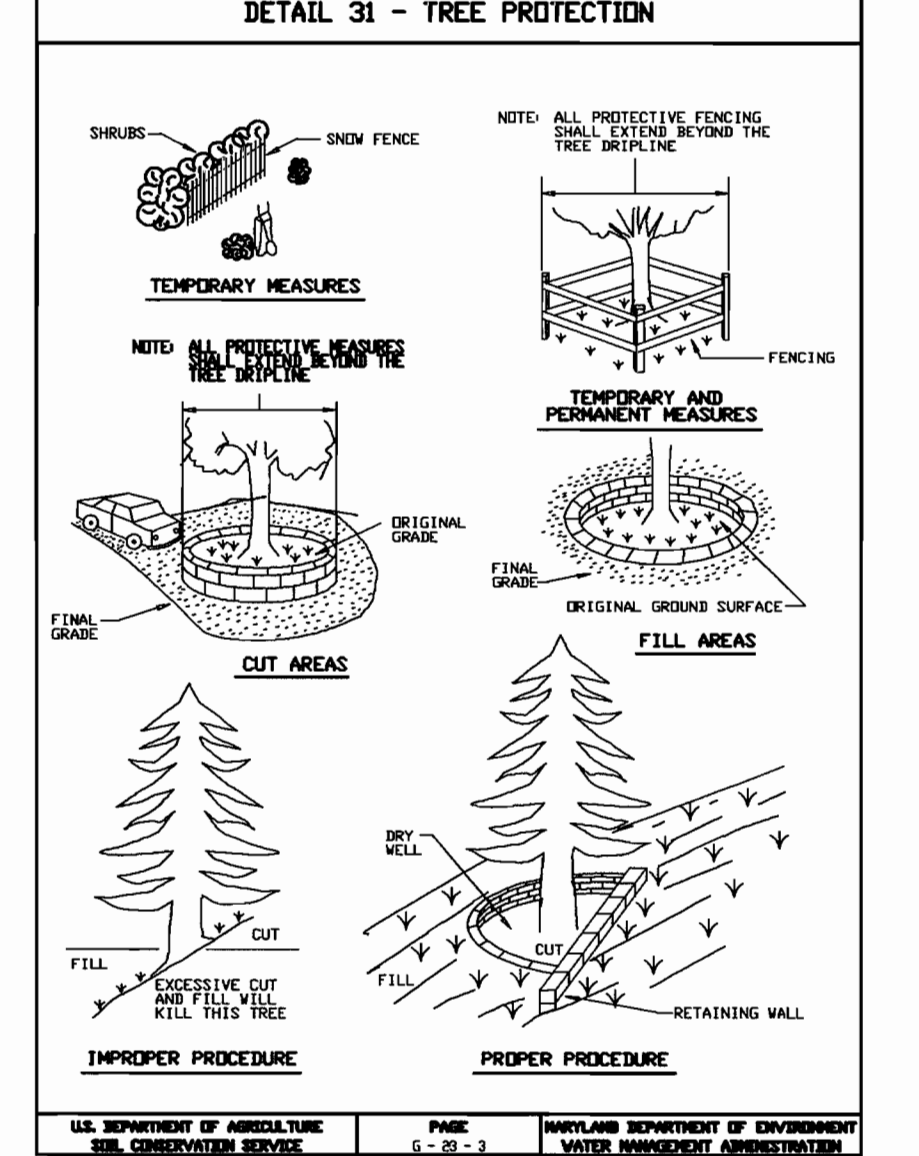
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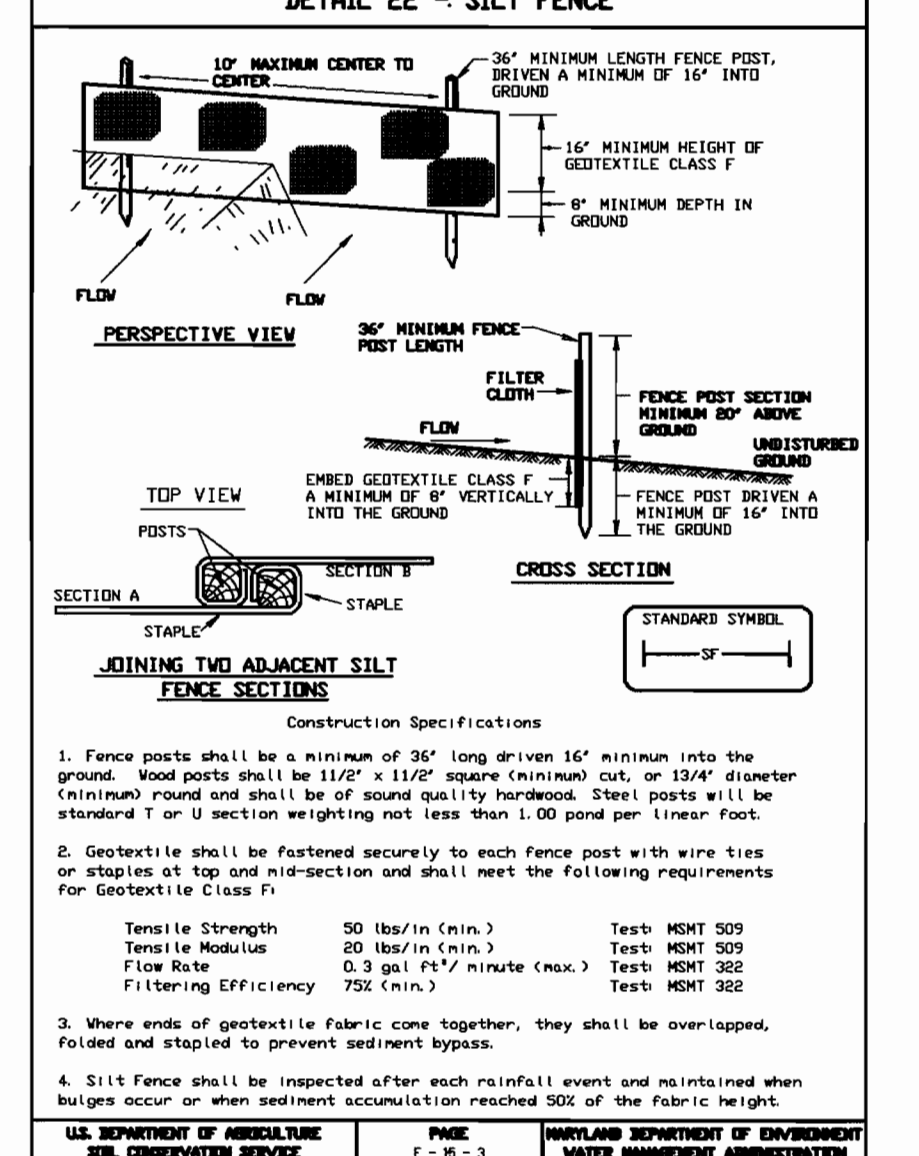
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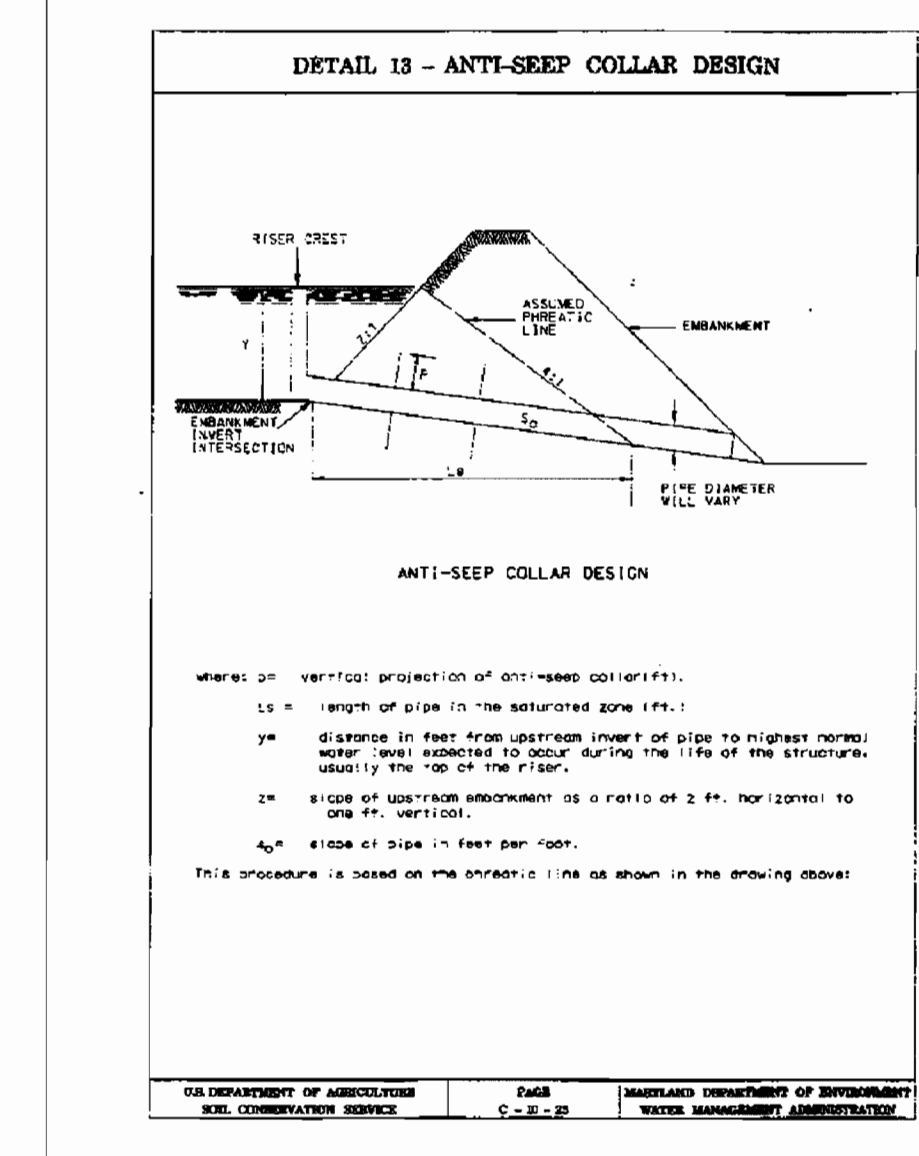
U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE	PAGE 6 - 9 - 3	MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION
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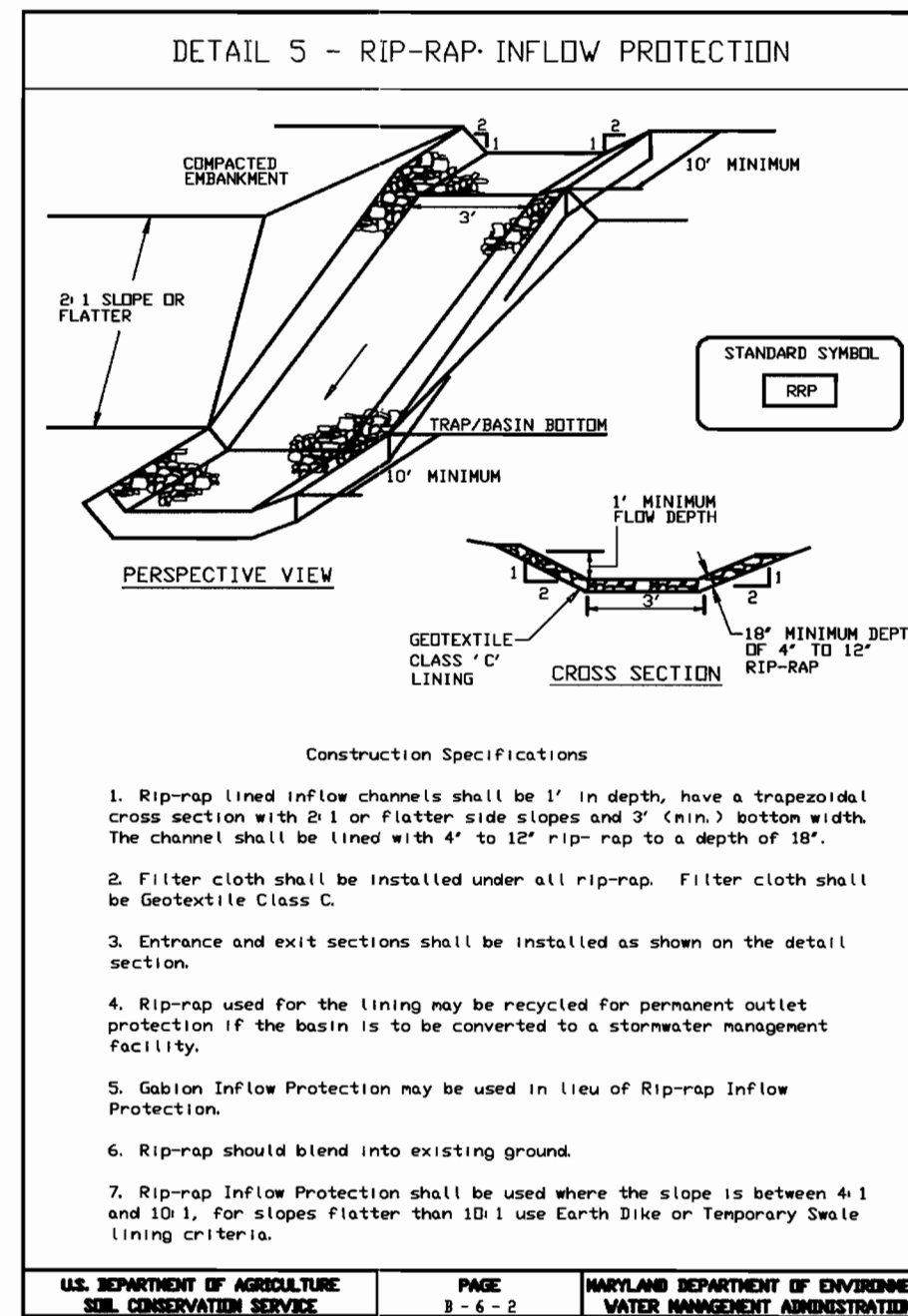
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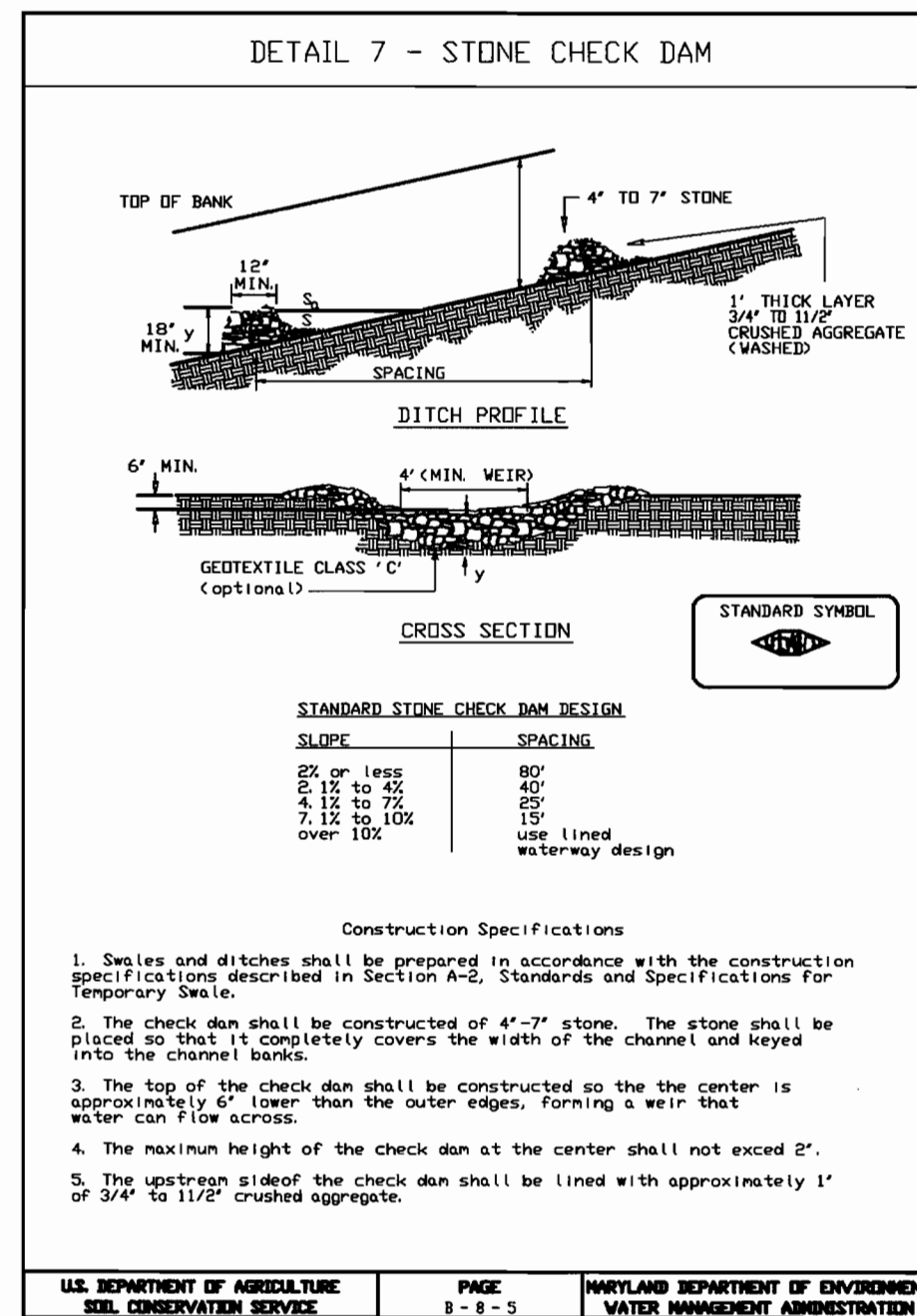
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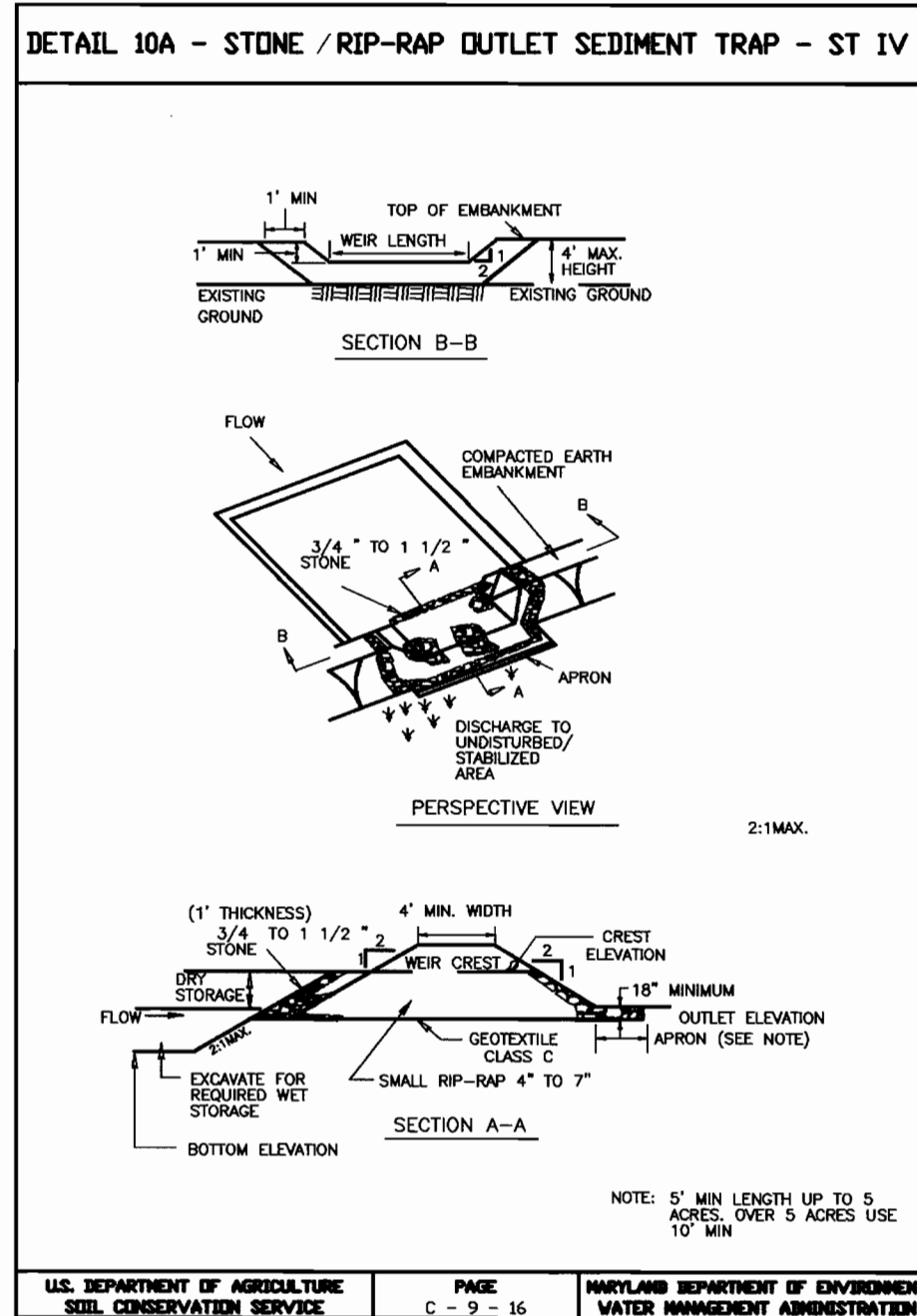
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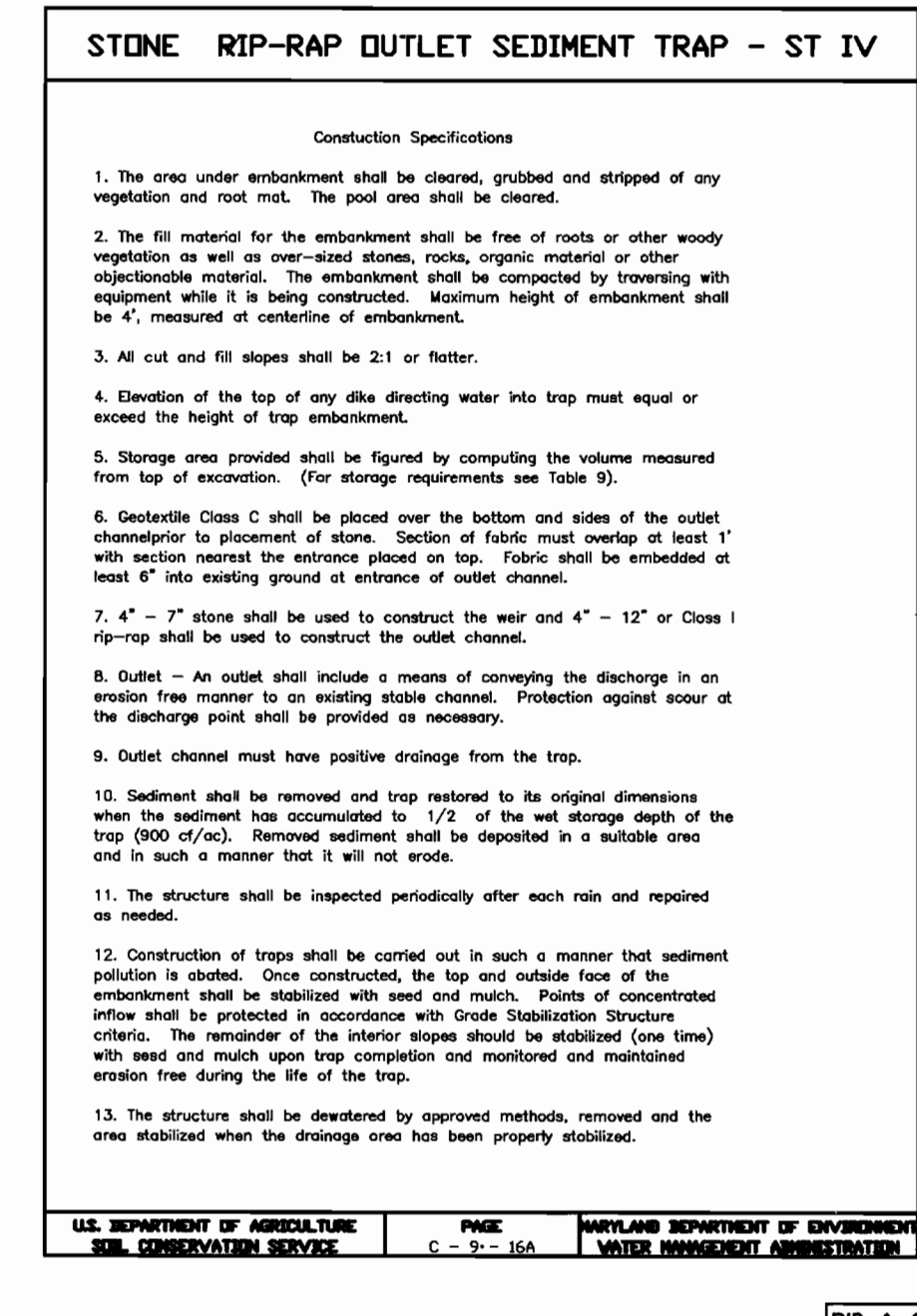
U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE	PAGE 8 - 6 - 2	MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION
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U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE	PAGE 8 - 8 - 5	MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION
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U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE	PAGE 6 - 9 - 16	MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION
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U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE	PAGE 6 - 9 - 16A	MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION
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APPROVED: FOR PRIVATE WATER & PRIVATE SEWERAGE SYSTEMS,  
HOWARD COUNTY HEALTH DEPARTMENT  
County Health Officer: *[Signature]* Date: 2/28/02  
APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING  
Chief, Division of Land Development: *[Signature]* Date: 2/15/02  
Chief, Development Engineering Division: *[Signature]* Date: 2/15/02

GLW GUTSCHICK LITTLE & WEBER, P.A.  
CIVIL ENGINEERS, LAND SURVEYORS, LAND PLANNERS, LANDSCAPE ARCHITECTS  
3909 NATIONAL DRIVE - SUITE 250 - BURTONTVILLE OFFICE PARK  
BURTONTVILLE, MARYLAND 20886  
TEL: 301-421-4024 FAX: 301-421-4188  
BALT. 410-880-1820 DC/VA: 301-989-2524 FAX: 301-421-4188

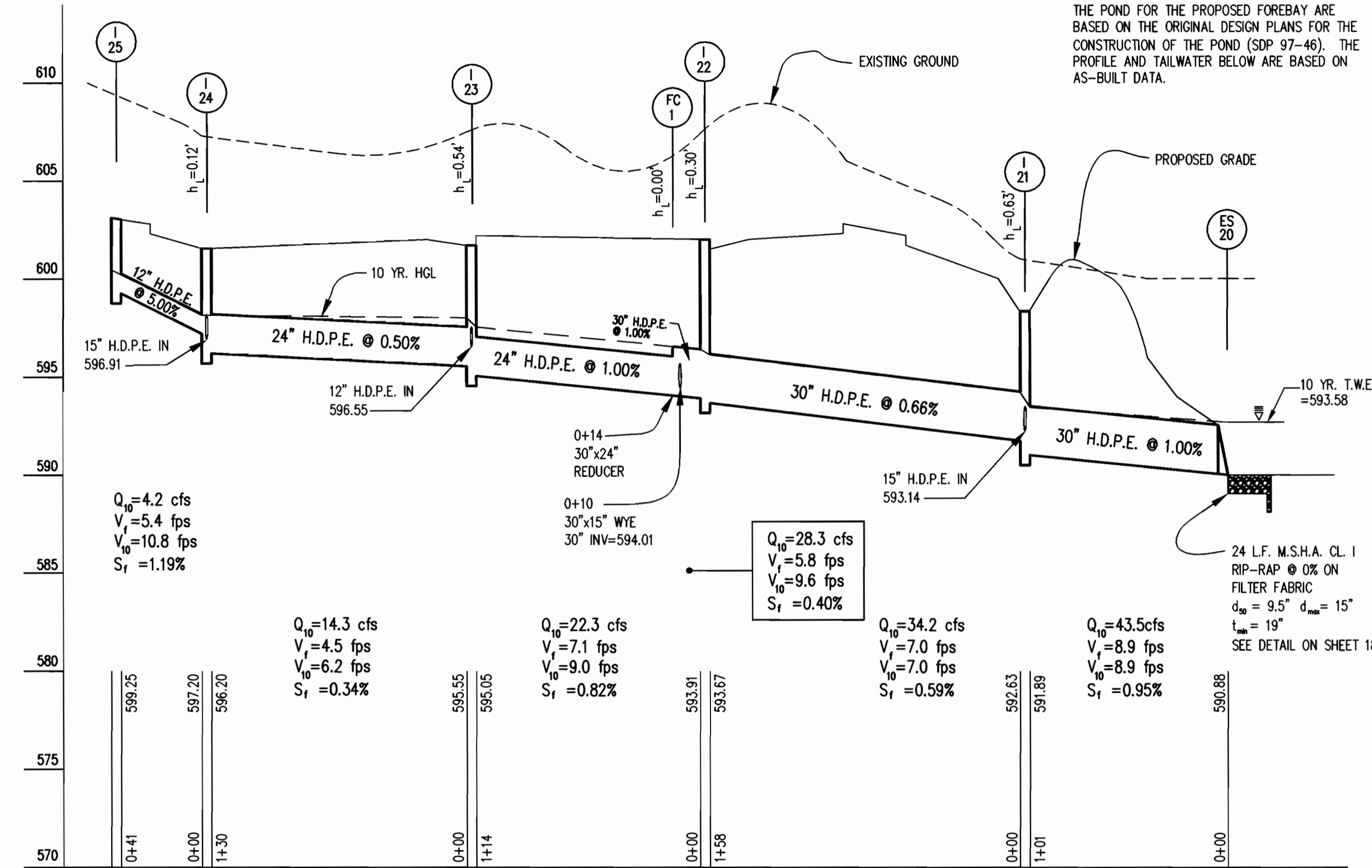
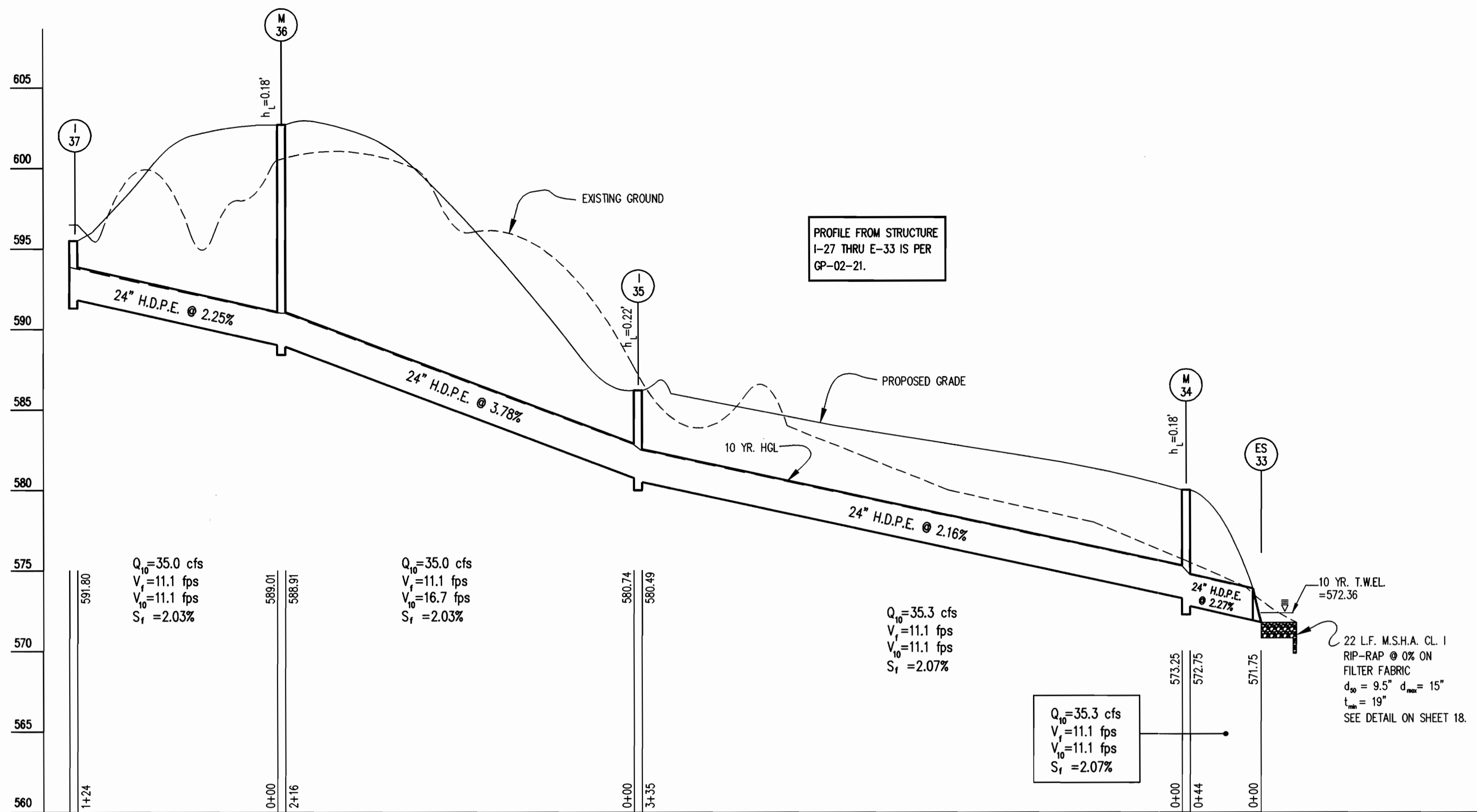
DATE: \_\_\_\_\_ REVISION: \_\_\_\_\_  
BY: \_\_\_\_\_ APPR: \_\_\_\_\_

OWNER: HOWARD COUNTY PUBLIC SCHOOL SYSTEM  
1080 ROUTE 108  
ELKLOTT CITY, MD 21043  
ATTN: CATHEEN YOUNG  
TEL: 410-313-6704

ARCHITECT: THOMAS CLARK ASSOCIATES  
2081 RIVA ROAD, SUITE 120  
ANNAPOLIS, MD 21403  
ATTN: THOMAS CLARK  
TEL: 301-261-8700

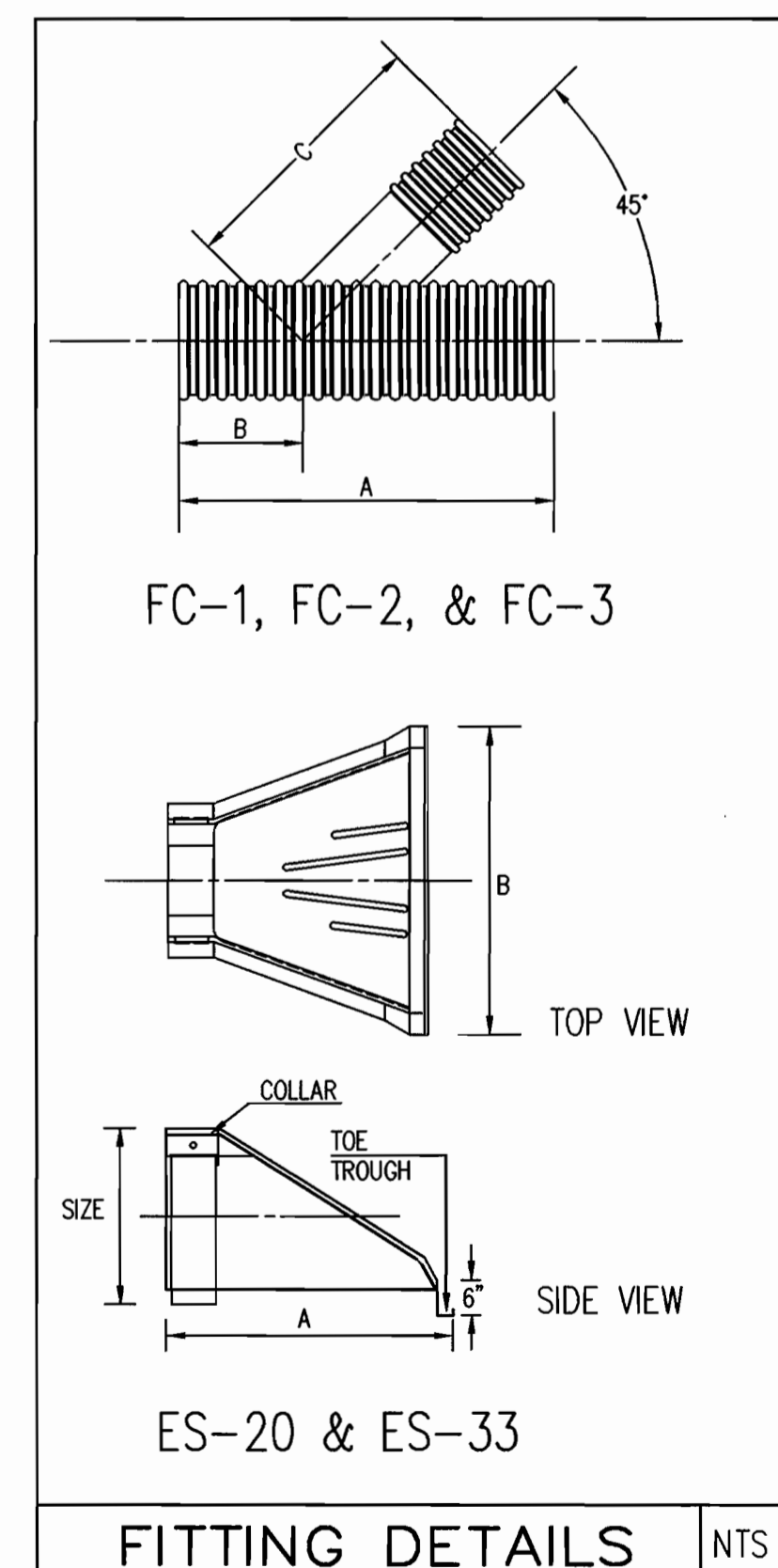
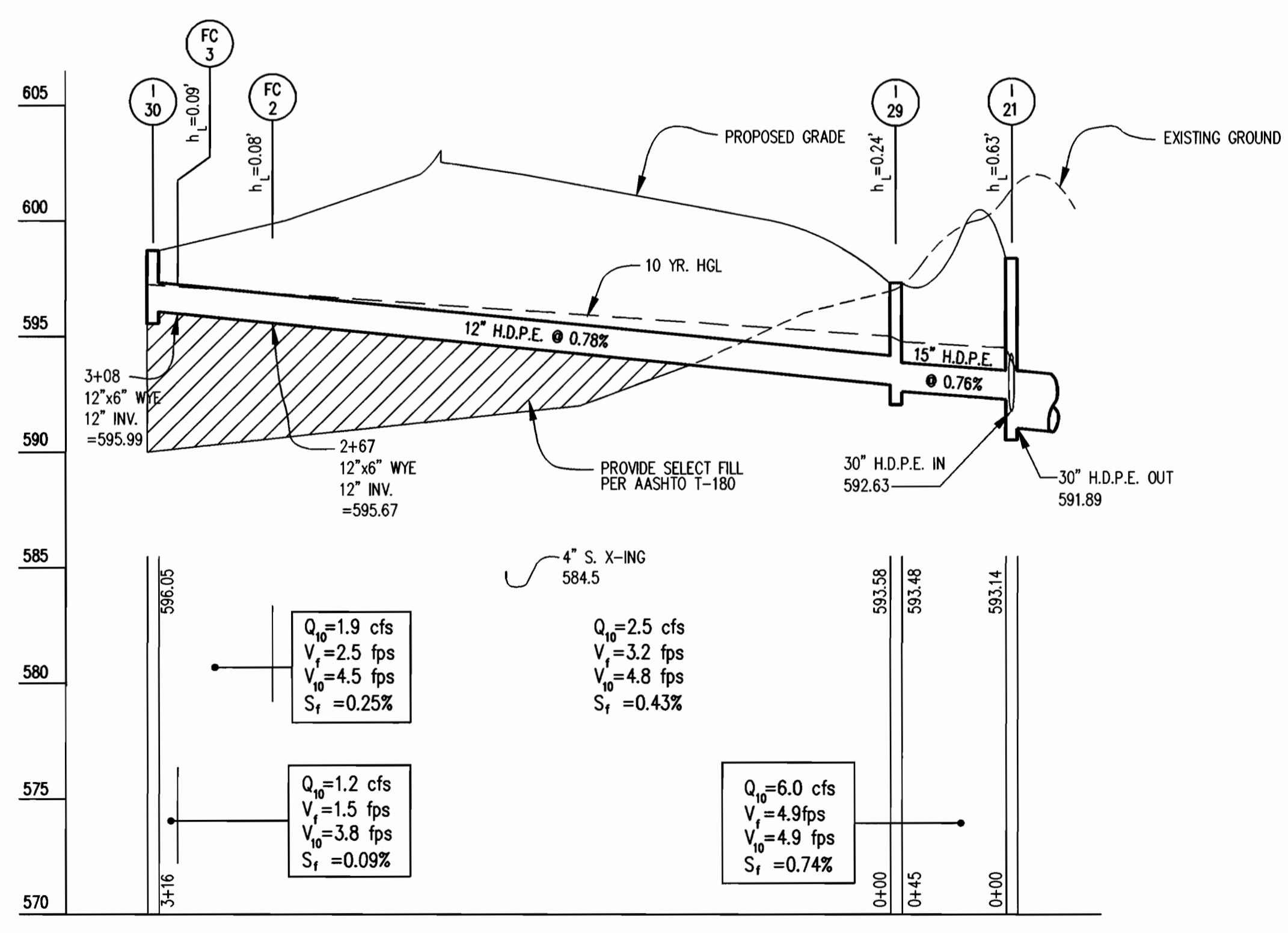
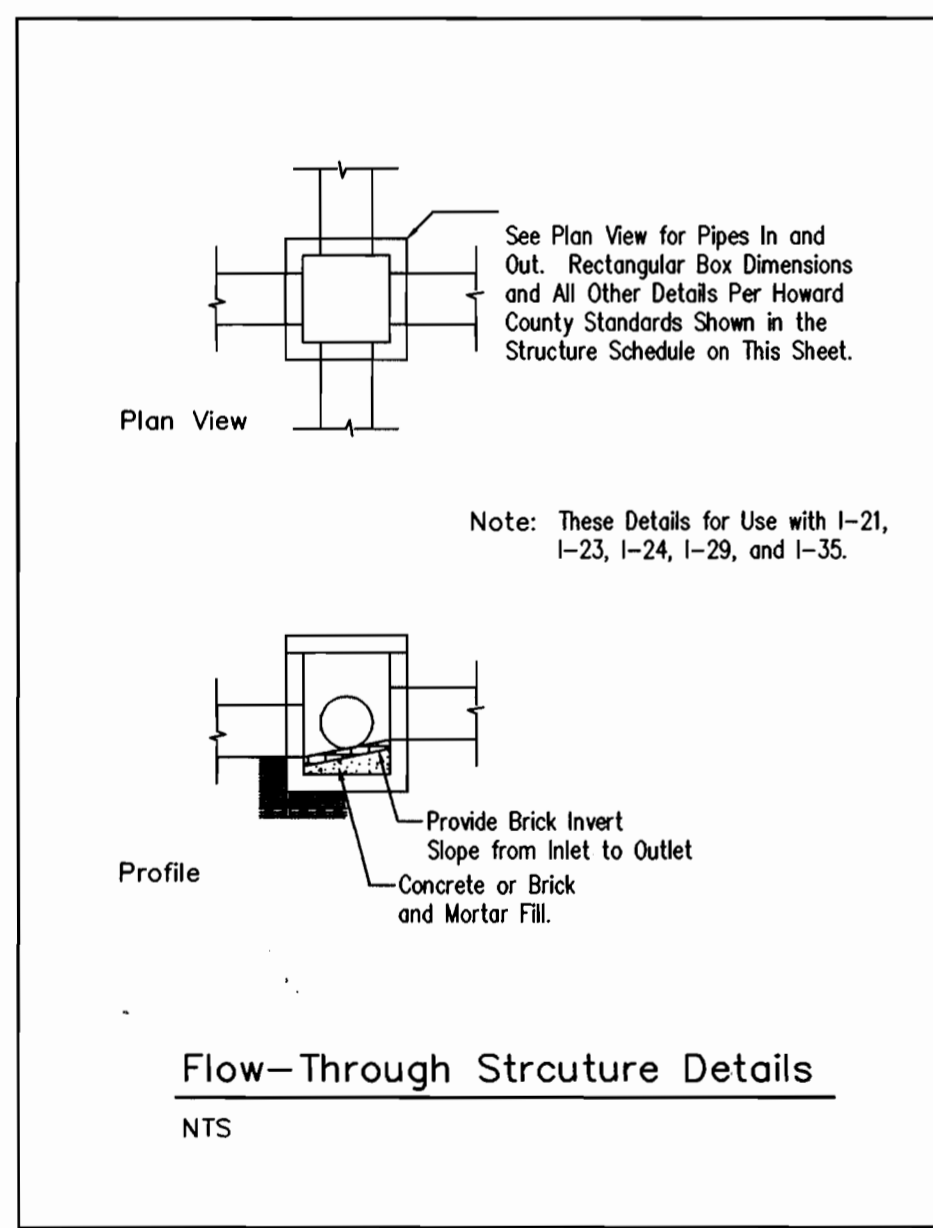
SEDIMENT CONTROL NOTES & DETAILS  
WESTERN MIDDLE SCHOOL No. 3  
HOWARD COUNTY PUBLIC SCHOOL SYSTEM  
L 3813 R173  
WEST FRIENDSHIP ELECTION DISTRICT No. 3

SCALE: AS SHOWN  
ZONING: RR-DEO  
G. L. W. FILE No.: 00-161  
DATE: 12/FEB/02  
TAX MAP - GRID: 22 8  
SHEET: 17 of 27  
HOWARD COUNTY, MARYLAND



NOTE: ALL STORMWATER MANAGEMENT DESIGN COMPUTATIONS AND THE PLAN VIEW CHANGES TO THE POND FOR THE PROPOSED FOREBAY ARE BASED ON THE ORIGINAL DESIGN PLANS FOR THE CONSTRUCTION OF THE POND (SDP 97-46). THE PROFILE AND TAILWATER BELOW ARE BASED ON AS-BUILT DATA.

**PROFILE SCALE**  
 HORIZONTAL: 1"=50'  
 VERTICAL: 1"=5'



**Structure Schedule**

No.	Type	Width (DIA.)	Top Elevation		Invert Elevation		S't'd Detail	Locations	Remarks
			Upper	Lower	Upper	Lower			
ES-20	END SECTION	30"	---	---	---	---	PER MANUFACTURER	SWM POND FOREBAY	SEE DETAIL ON SHEET 18
ES-33	END SECTION	24"	---	---	---	---	PER MANUFACTURER	NORTH OF BALL FIELDS	SEE DETAIL ON SHEET 18
I-21	DOUBLE S-INLET	2'-7.5"	598.35	---	593.14	591.89	HO. CO. SD 4.23	ROADSIDE DITCH ADJACENT TO POND	SEE DETAIL THIS SHEET ALSO
I-22	A-10 INLET	2'-6"	602.36	602.00	593.91	593.67	HO. CO. SD 4.41	BUS LOOP	SEE DETAIL THIS SHEET ALSO
I-23	DBL. S-COMB INLET	3'-5"	601.70	---	595.55	595.05	HO. CO. SD 4.34	PARENT DROP OFF	SEE DETAIL THIS SHEET ALSO
I-24	DBL. S-COMB INLET	3'-5"	601.55	---	597.20	596.20	HO. CO. SD 4.34	FRONT LEFT DRIVE AISLE	SEE DETAIL THIS SHEET ALSO
I-25	DBL. S-COMB INLET	3'-5"	602.35	---	---	599.25	HO. CO. SD 4.34	FRONT LEFT PARKING AREA	SEE DETAIL THIS SHEET ALSO
I-29	S-INLET	2'-7.5"	597.29	---	593.58	593.48	HO. CO. SD 4.22	ROADSIDE DITCH ADJACENT TO POND	SEE DETAIL THIS SHEET ALSO
I-30	S-INLET	2'-7.5"	598.70	---	---	596.05	HO. CO. SD 4.22	RIGHT REAR-BASKETBALL COURTS	SEE DETAIL THIS SHEET ALSO
I-35	S-INLET	2'-7.5"	586.20	---	580.74	580.49	HO. CO. SD 4.22	SOUTH OF BALL FIELDS	SEE DETAIL THIS SHEET ALSO
I-37	S-INLET	2'-7.5"	595.50	---	---	591.80	HO. CO. SD 4.22	LEFT SIDE OF SCHOOL	SEE DETAIL THIS SHEET ALSO
M-34	MANHOLE	4'-0"	580.20	---	573.25	572.75	HO. CO. SD 5.12	NORTH END OF BALL FIELDS	SEE DETAIL THIS SHEET ALSO
M-36	MANHOLE	4'-0"	602.50	---	589.01	588.91	HO. CO. SD 5.12	LEFT REAR CORNER OF SCHOOL	SEE DETAIL THIS SHEET ALSO
I-26	COC-15 INLET	36"	603.72	603.06	---	597.30	MD-374.62 & 374.64	PARENT DROP OFF	SEE DETAIL THIS SHEET ALSO
I-31	FIELD DRAIN	6"	599.40	---	---	597.62	SPORTS EDGE No.2191	RIGHT REAR -BASKETBALL COURTS	SEE DETAIL THIS SHEET ALSO
I-32	FIELD DRAIN	6"	599.70	---	---	597.92	SPORTS EDGE No.2191	RIGHT REAR -BASKETBALL COURTS	SEE DETAIL THIS SHEET ALSO

- Notes:
- Pre-cast alternatives to field constructed standard details referenced above are acceptable.
  - Provide reticular grates for all S inlets per Ho. Co. SD 4.93.
  - Provide 2.5" inlet depression at all S-inlets within paved areas.
  - Manhole top elevations are surface elevations at the center of the base unit.
  - A= inlet top elevations are top of slab at the face of the curb at the inside face of the side walls.
  - S= inlet top elevations are grate elevations.
  - Field Drain from Sports Edge (888-975-EDGE). Provide no. 426 Grate.
  - Provide 2900 SE Pro In-line Catch Basins along length of Field Drain in locations shown (I-32 and I-31).

**Pipe Schedule**

Size	Type	Quantity (l.f.)	Remarks
6"	H.D.P.E., ADS N-12 OR EQUAL	30	
12"	H.D.P.E., ADS N-12 OR EQUAL	397	
15"	H.D.P.E., ADS N-12 OR EQUAL	168	
24"	H.D.P.E., ADS N-12 OR EQUAL	949	
30"	H.D.P.E., ADS N-12 OR EQUAL	273	
TOTAL			1,817

**Fitting Schedule**

Structure	Size	A	B	C
ES-20	30"	45"	88"	---
ES-33	24"	36"	59.5"	---
FC-1	30"X15"	60"	16"	44.75"
FC-2	12"X6"	27"	8"	20.25"
FC-3	12"X6"	27"	8"	20.25"

APPROVED: FOR PRIVATE WATER & PRIVATE SEWERAGE SYSTEMS,  
 HOWARD COUNTY HEALTH DEPARTMENT  
 County Health Officer: [Signature] Date: 2/25/02

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING  
 Director: [Signature] Date: 3/15/02

Chief, Division of Land Development: [Signature] Date: 2/15/02

Chief, Development Engineering Division: [Signature] Date: 2/15/02

**GLW GUTSCHICK LITTLE & WEBER, P.A.**  
 CIVIL ENGINEERS, LAND SURVEYORS, LAND PLANNERS, LANDSCAPE ARCHITECTS  
 3909 NATIONAL DRIVE - SUITE 250 - BURTONSVILLE OFFICE PARK  
 BURTONSVILLE, MARYLAND 20886  
 TEL: 301-421-4024 BAL: 410-880-1820 DC/VA: 301-989-2524 FAX: 301-421-4186

DATE	REVISION	CHK.	BY	APP.

OWNER:  
 HOWARD COUNTY PUBLIC SCHOOL SYSTEM  
 10910 ROUTE 108  
 ELLICOTT CITY, MD 21043  
 ATTN: THOMAS CLARK  
 TEL: 410-313-6704

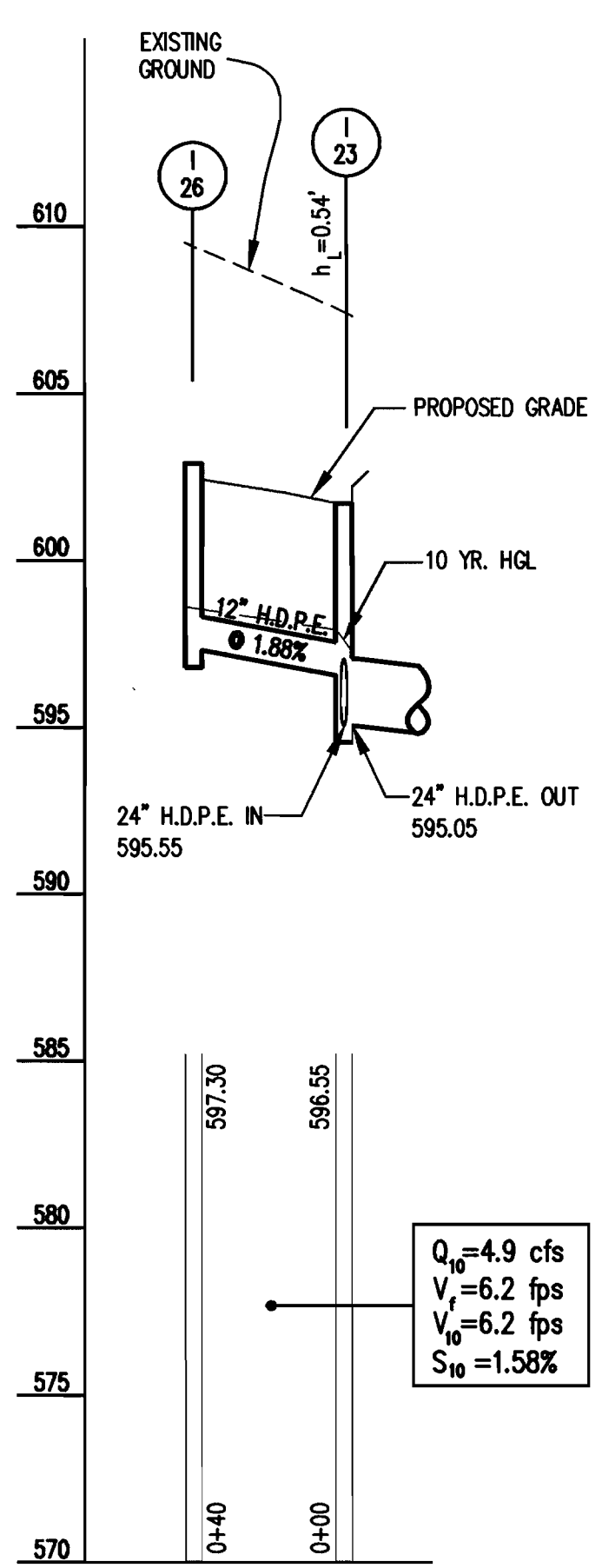
PREPARED FOR:  
 ARCHITECT:  
 THOMAS CLARK ASSOCIATES  
 ARCHITECTS  
 2661 RIVA ROAD, SUITE 120  
 ANNAPOLIS, MD 21401  
 ATTN: THOMAS CLARK  
 TEL: 301-261-8700

**STORM DRAIN PROFILES & SCHEDULES**  
**WESTERN MIDDLE SCHOOL No. 3**  
**HOWARD COUNTY PUBLIC SCHOOL SYSTEM**  
 L 3013 F173

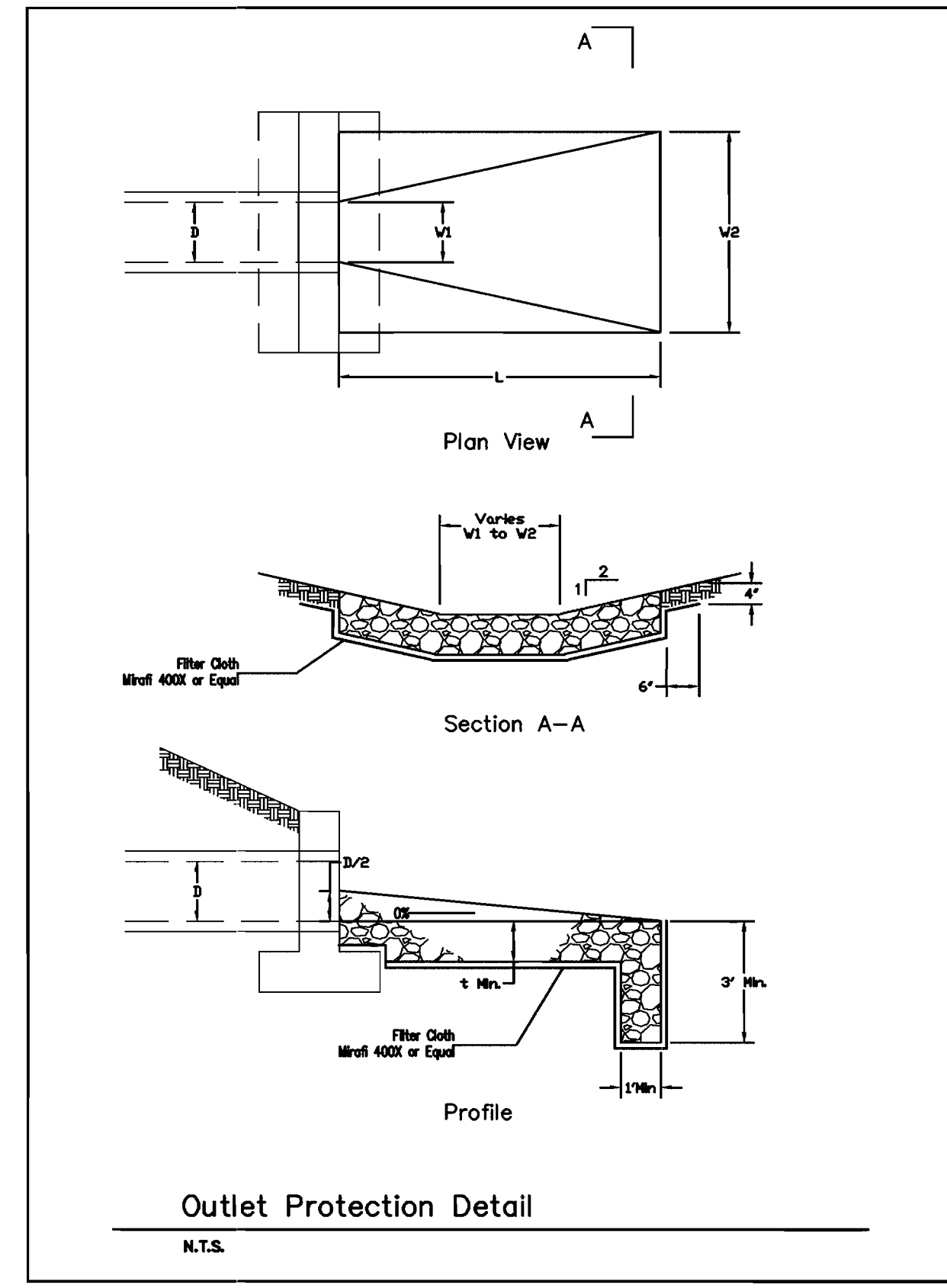
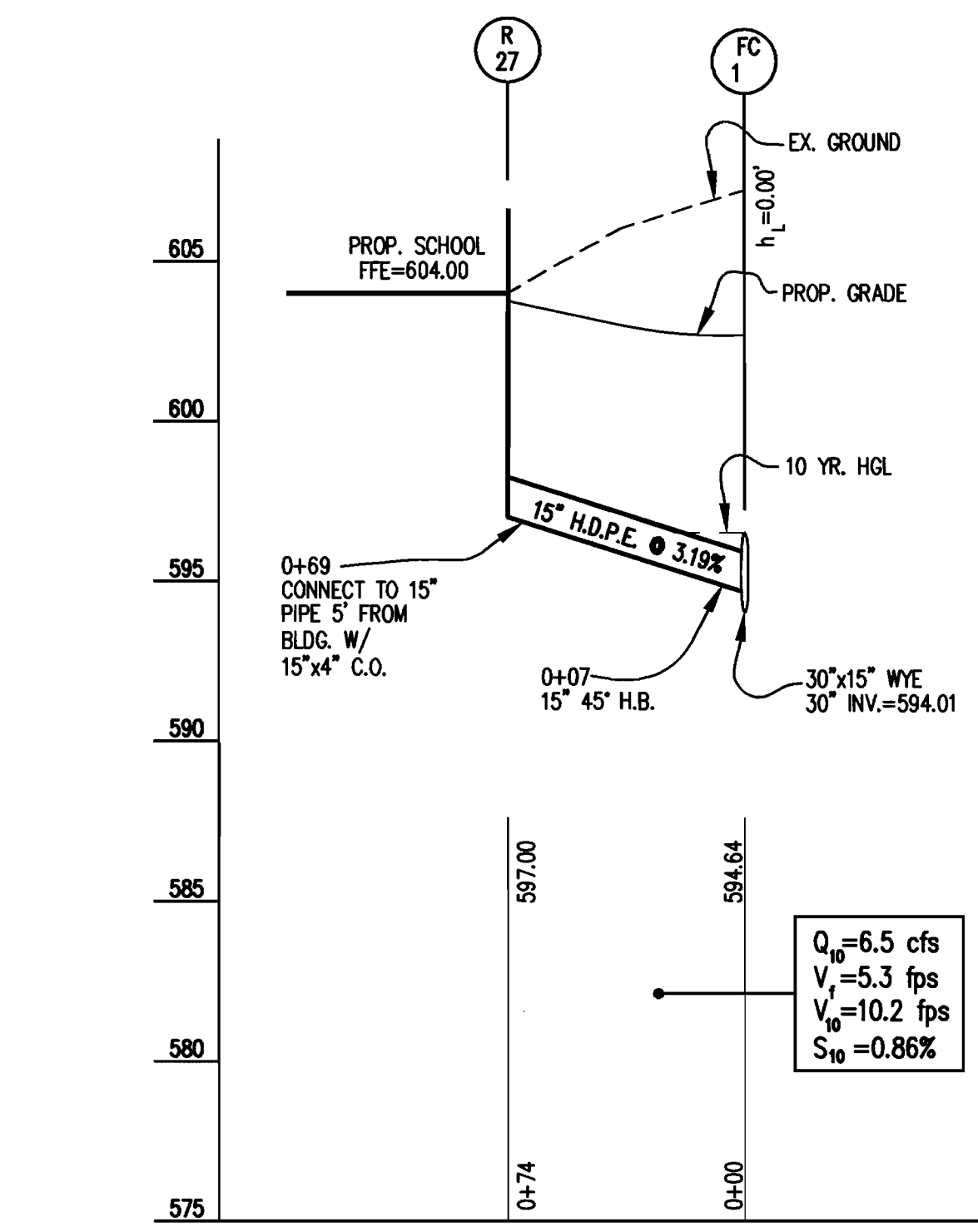
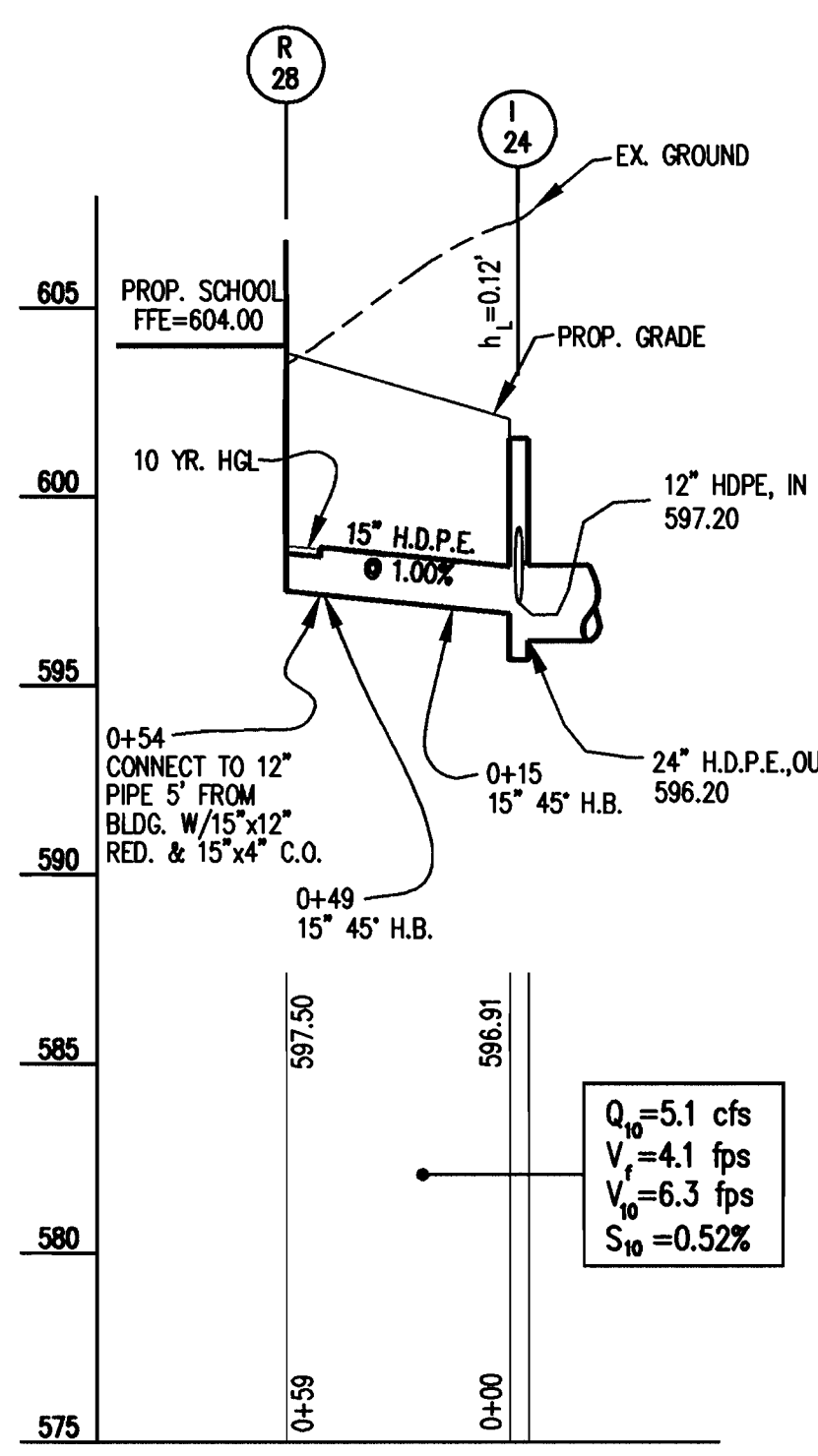
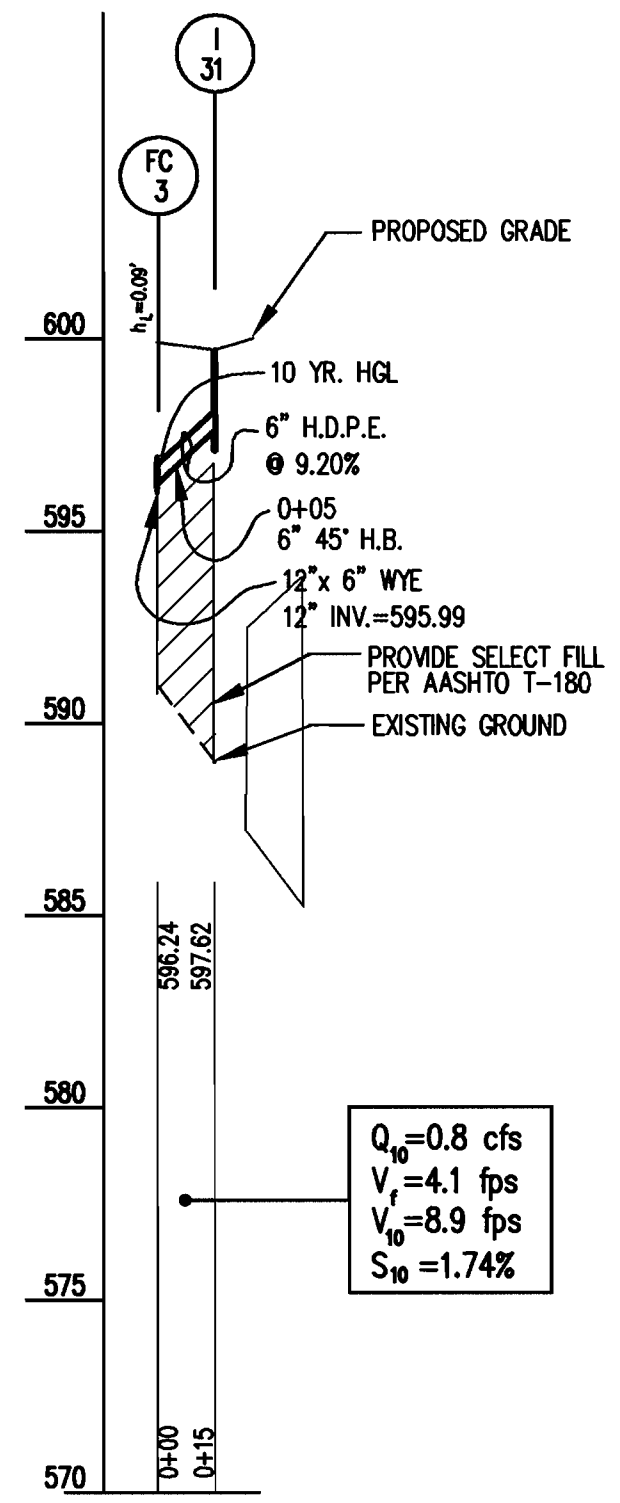
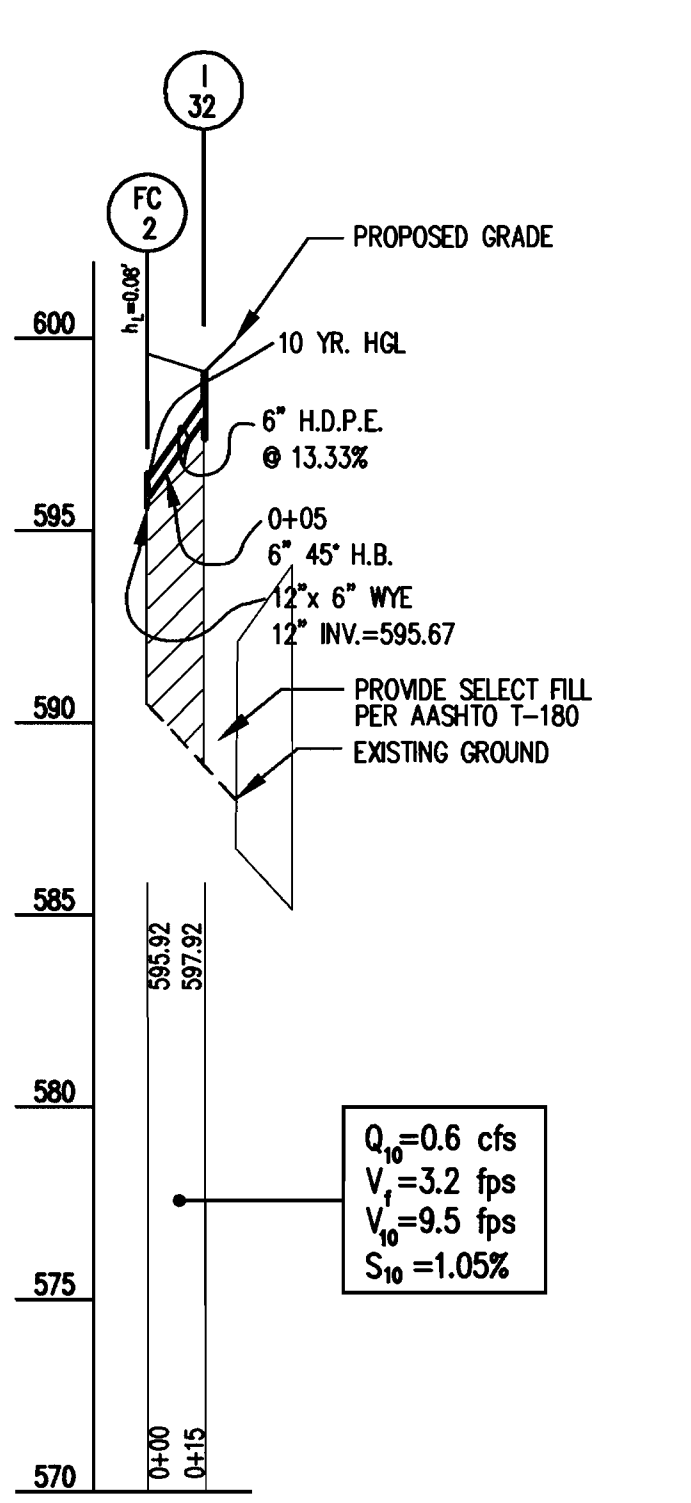
SCALE: AS SHOWN  
 ZONING: RR-DEO  
 DATE: 12/FEB/02  
 TAX MAP - GRID: 22 8  
 SHEET: 18 OF 27

G. L. W. FILE No. 00-161

WEST FRIENDSHIP ELECTION DISTRICT No. 3  
 HOWARD COUNTY, MARYLAND



**PROFILE SCALE**  
 HORIZONTAL: 1"=50'  
 VERTICAL: 1"=5'



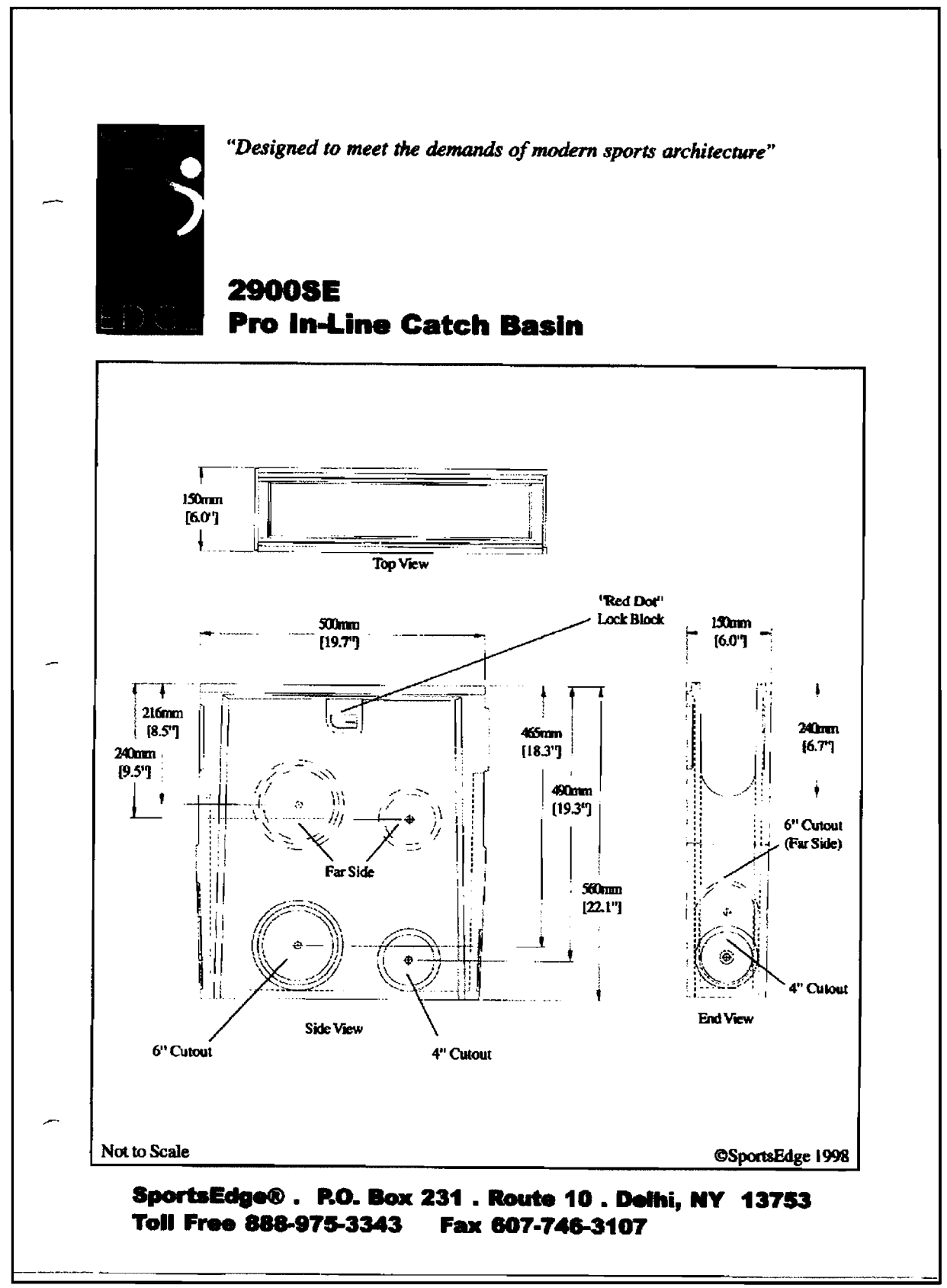
**ROCK OUTLET PROTECTION**

Construction Specifications:

- The subgrade for the filter, rip-rap, or gabion shall be prepared to the required lines and grades. Any fill required in the subgrade shall be compacted to a density of approximately that of the surrounding undisturbed material.
- The rock or gravel shall conform to the specified grading limits when installed respectively in the rip-rap or filter.
- Geotextile shall be protected from punching, cutting, or tearing. Any damage other than an occasional small hole shall be repaired by placing another piece of geotextile over the damaged part or by completely replacing the geotextile. All overlaps whether for repairs or for joining two pieces of geotextile shall be a minimum of one foot.
- Stone for the rip-rap or gabion outlets may be placed by equipment. They shall be constructed to the full course thickness in one operation and in such a manner as to avoid displacement of underlying materials. The stone for rip-rap or gabion outlets shall be delivered and placed in a manner that will ensure that it is reasonably homogeneous with the smaller stones and spalls filling the voids between the larger stones. Rip-rap shall be placed in a manner to prevent damage to the filter blanket or geotextile. Hand placement will be required to the extent necessary to prevent damage to the permanent works.
- The stone shall be placed so that it blends in with the existing ground. If the stone is placed too high then the flow will be forced out of the channel and scour adjacent to the stone will occur.

**Rip-Rap Schedule**

Structure	L	W1	W2
ES-20	24'	2.5'	12'
ES-33	22'	2.5'	25'



APPROVED: FOR PRIVATE WATER & PRIVATE SEWERAGE SYSTEMS,  
 HOWARD COUNTY HEALTH DEPARTMENT  
 County Health Officer: *[Signature]* Date: 2/28/02

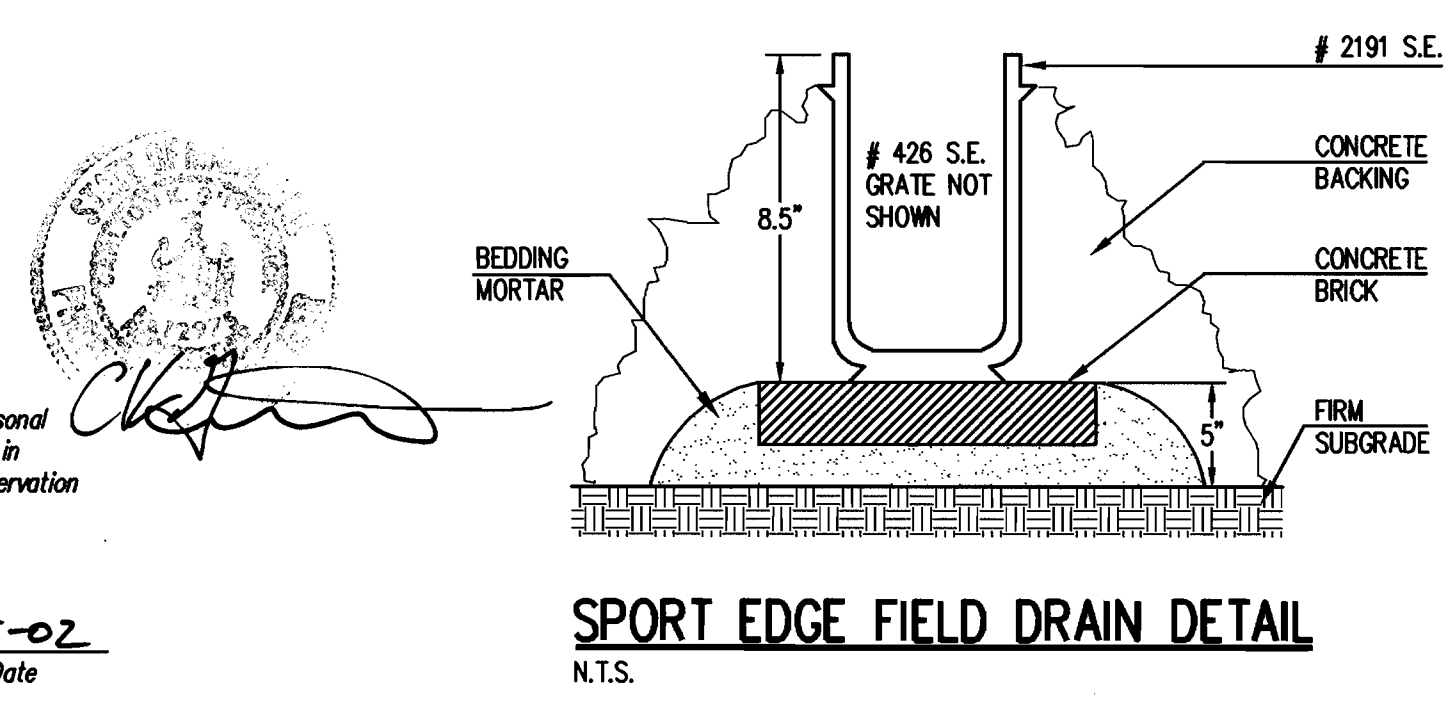
APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING  
 Director: *[Signature]* Date: 3/5/02  
 Chief, Division of Land Development: *[Signature]* Date: 3/5/02  
 Chief, Development Engineering Division: *[Signature]* Date: 3/5/02

This Development Plan is approved for Soil Erosion and Sediment Control by the Howard Soil Conservation District.  
*[Signature]* Date: 2/27/02  
 Howard S.C.D.

These plans have been reviewed for the Howard Soil Conservation District and meet the technical requirements.  
*[Signature]* Date: 2/27/02  
 Natural Resources Conservation Service

DEVELOPER'S/BUILDER'S CERTIFICATE  
 I/We certify that all development and/or construction will be done according to this plan, and that any responsible personnel involved in the construction project will have a Certificate of Attendance at a Maryland Department of the Environment Approved Training Program for the Control of Sediment and Erosion before beginning the project. I also authorize periodic on-site inspection by the HSCD.  
*[Signature]* Date: 2/20/02  
 Signature of Developer/Builder

ENGINEER'S CERTIFICATE  
 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.  
*[Signature]* Date: 2-15-02  
 Date



**GLW GUTSCHICK LITTLE & WEBER, P.A.**  
 CIVIL ENGINEERS, LAND SURVEYORS, LAND PLANNERS, LANDSCAPE ARCHITECTS  
 3909 NATIONAL DRIVE - SUITE 250 - BURTONSVILLE OFFICE PARK  
 BURTONSVILLE, MARYLAND 20866  
 TEL: 301-421-4024 BALT: 410-683-1820 DC/VA: 301-583-2524 FAX: 301-421-4188

DATE	REVISION	BY	APP'R.

OWNER: HOWARD COUNTY PUBLIC SCHOOL SYSTEM  
 10910 ROUTE 108  
 ELICOTT CITY, MD 21043  
 ATTN: CATHEEN YOUNG  
 TEL: 410-313-6704

ARCHITECT: THOMAS CLARK ASSOCIATES ARCHITECTS  
 2661 RIVA ROAD, SUITE 120  
 ANNAPOLIS, MD 21401  
 ATTN: THOMAS CLARK  
 TEL: 301-261-6700

**STORM DRAIN / UTILITY PROFILES, SCHEDULES & DETAILS**

**WESTERN MIDDLE SCHOOL No. 3**  
 HOWARD COUNTY PUBLIC SCHOOL SYSTEM  
 L 3813 F173

WEST FRIENDSHIP ELECTION DISTRICT No. 3  
 HOWARD COUNTY, MARYLAND

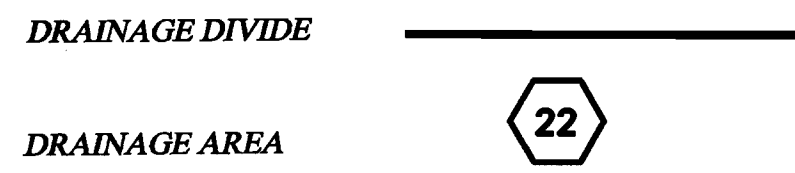
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AS SHOWN	RR-DEO	00-161
DATE	TAX MAP - GRID	SHEET
12/FEB/02	22 8	19 of 27

BID & CONSTRUCTION  
 19 SEPTEMBER 01

DRAINAGE AREAS - WESTERN MIDDLE SCHOOL					
AREA	D.A. (ACRES)	GRASS (ACRES)	IMP. (ACRES)	% IMP.	C
I-21	1.00	0.45	0.55	55	0.56
I-22	1.50	0.85	0.65	43	0.48
I-23	0.70	0.25	0.45	64	0.61
I-24	0.90	0.25	0.65	72	0.62
I-25	0.80	0.30	0.50	63	0.62
I-26	1.10	0.55	0.55	50	0.52
R-27	0.90	0.50	0.40	100	0.85
R-28	0.70	0.00	0.70	100	0.85
I-29	0.85	0.40	0.45	53	0.53
I-30	0.40	0.30	0.10	25	0.34
I-31	0.15	0.05	0.10	67	0.63
I-32	0.15	0.08	0.07	47	0.49
I-33	0.70	0.65	0.05	7	0.22
I-37	10.80	6.00	4.80	44	0.49
TOTALS	20.85	10.13	10.52	51	—

SOILS CHART		
SYMBOL	NAME	CLASS
Cg,Ch	CHESTER	B
M,Mg	MANOR	B
Gl	GLENELG	B
Gn	GLENVILLE	C
Ba	BAILE	D

**LEGEND**



APPROVED: FOR PRIVATE WATER & PRIVATE SEWERAGE SYSTEMS,  
HOWARD COUNTY HEALTH DEPARTMENT  
*[Signature]* 2/29/02  
County Health Officer Date

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING  
*[Signature]* 3/15/02  
Director Date

*[Signature]* 3/5/02  
Chief, Division of Land Development Date

*[Signature]* 2/5/02  
Chief, Development Engineering Division Date

NOTE: TOPOGRAPHY BEYOND THE SCHOOL SITE IS HOWARD COUNTY 5' TOPO.

**GLW GUTSCHICK LITTLE & WEBER, P.A.**  
CIVIL ENGINEERS, LAND SURVEYORS, LAND PLANNERS, LANDSCAPE ARCHITECTS  
3909 NATIONAL DRIVE - SUITE 250 - BURTONTOWN OFFICE PARK  
BURTONTOWN, MARYLAND 20886  
TEL: 301-421-4024 BALT: 410-995-1820 DC/VA: 301-988-2524 FAX: 301-421-4186

DATE	REVISION	BY	APPR.

PREPARED FOR:  
OWNER: HOWARD COUNTY PUBLIC SCHOOL SYSTEM  
10910 ROUTE 108  
ELLCOTT CITY, MD 21043  
ATTN: CATHEEN YOUNG  
TEL: 410-313-6704

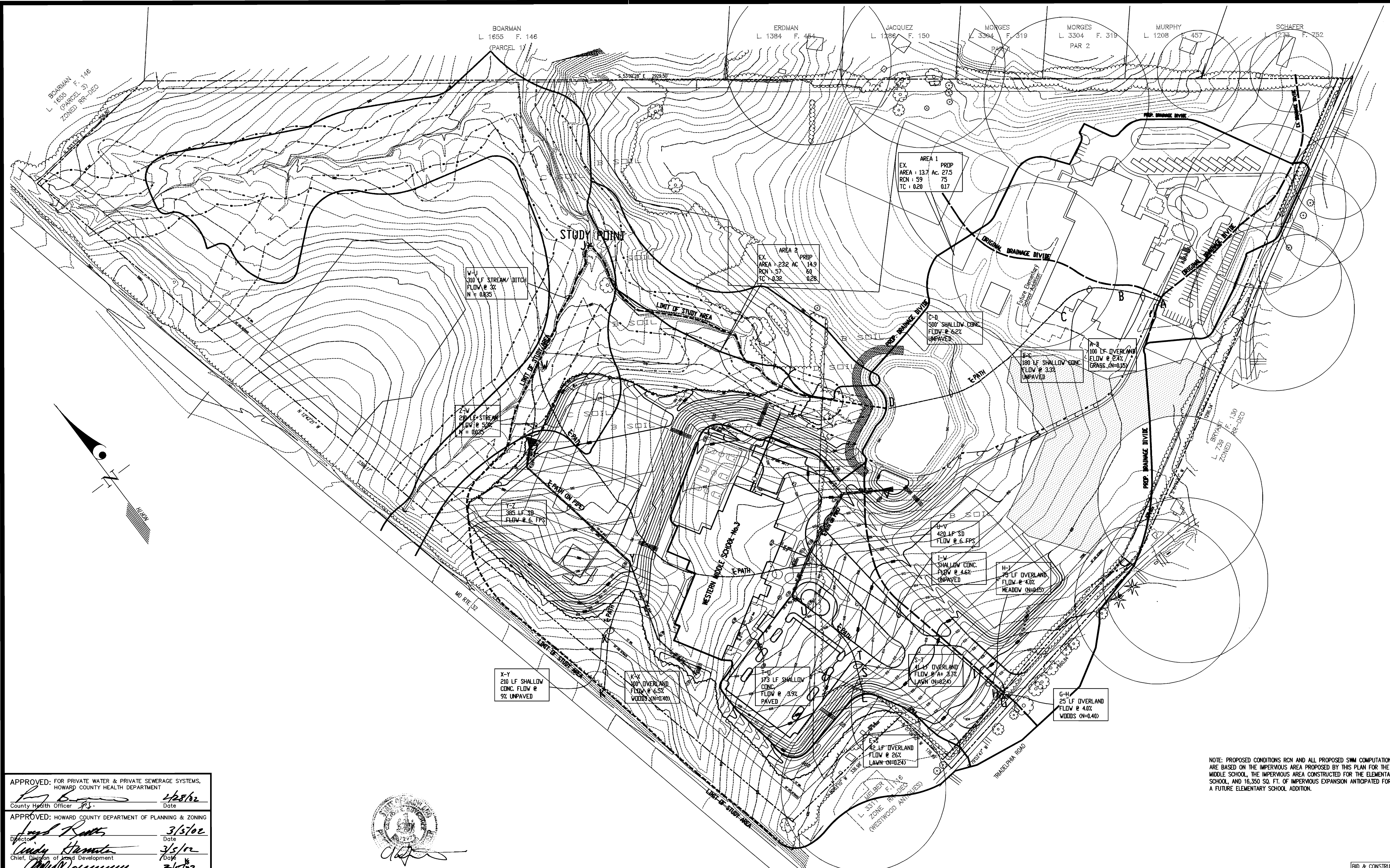
ARCHITECT: THOMAS CLARK ASSOCIATES ARCHITECTS  
2661 RIVA ROAD, SUITE 120  
ANNAPOLIS, MD 21401  
ATTN: THOMAS CLARK  
TEL: 301-261-8700

DRAINAGE AREA MAP (SD)  
**WESTERN MIDDLE SCHOOL No. 3**  
HOWARD COUNTY PUBLIC SCHOOL SYSTEM  
L. 3813 P.173

WEST FRIENDSHIP ELECTION DISTRICT No. 3  
HOWARD COUNTY, MARYLAND

SCALE	ZONING	G. L. W. FILE No.
1"=100'	RR-DEO	00-161
DATE	TAX MAP - GRID	SHEET
12/FEB/02	22 8	20 of 27

BID & CONSTRUCTION  
19 SEPTEMBER 01



APPROVED: FOR PRIVATE WATER & PRIVATE SEWERAGE SYSTEMS,  
HOWARD COUNTY HEALTH DEPARTMENT  
*[Signature]* 4/25/02  
County Health Officer Date

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING  
*[Signature]* 3/5/02  
Director Date

*[Signature]* 3/5/02  
Chief, Division of Land Development Date

*[Signature]* 3/5/02  
Chief, Development Engineering Division Date



NOTE: PROPOSED CONDITIONS RCN AND ALL PROPOSED SWM COMPUTATIONS ARE BASED ON THE IMPERVIOUS AREA PROPOSED BY THIS PLAN FOR THE MIDDLE SCHOOL, THE IMPERVIOUS AREA CONSTRUCTED FOR THE ELEMENTARY SCHOOL, AND 16,350 SQ. FT. OF IMPERVIOUS EXPANSION ANTICIPATED FOR A FUTURE ELEMENTARY SCHOOL ADDITION.

**GLW GUTSCHICK LITTLE & WEBER, P.A.**  
CIVIL ENGINEERS, LAND SURVEYORS, LAND PLANNERS, LANDSCAPE ARCHITECTS  
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BURTONSVILLE, MARYLAND 20866  
TEL: 301-421-4024 BALT: 410-880-1820 DC/VA: 301-989-2524 FAX: 301-421-4186  
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DATE	REVISION	BY	APP'R.

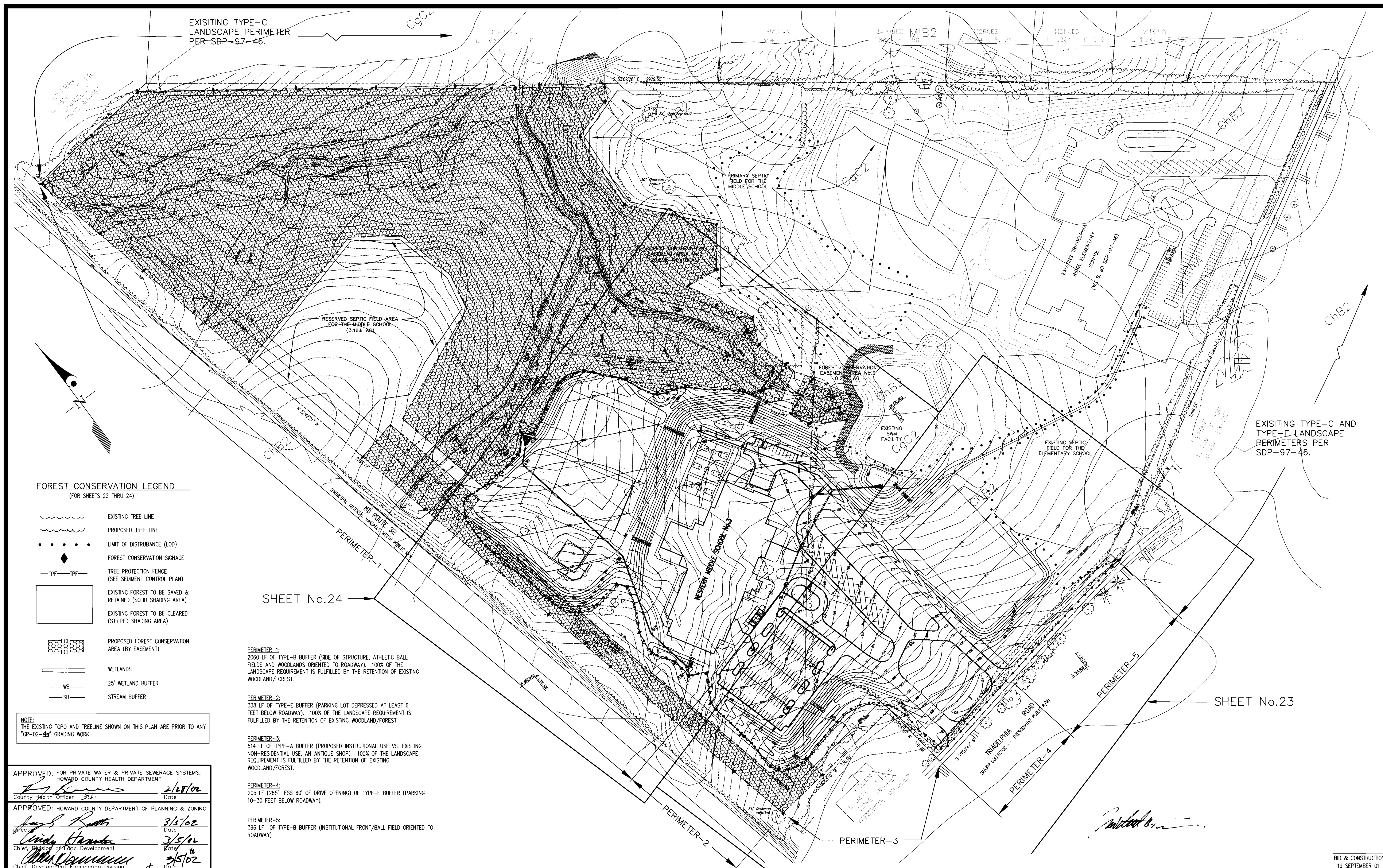
PREPARED FOR:  
OWNER:  
HOWARD COUNTY PUBLIC SCHOOL SYSTEM  
10910 ROUTE 108  
ELICOTT CITY, MD 21043  
ATTN: CATHEEN YOUNG  
TEL: 410-313-6704

ARCHITECT:  
THOMAS CLARK ASSOCIATES  
ARCHITECTS  
2661 RIVA ROAD, SUITE 120  
ANNAPOLIS, MD 21401  
ATTN: THOMAS CLARK  
TEL: 301-261-8700

**DRAINAGE AREA MAP (SWM)**  
**WESTERN MIDDLE SCHOOL No. 3**  
**HOWARD COUNTY PUBLIC SCHOOL SYSTEM**  
L 3813 F173  
WEST FRIENDSHIP ELECTION DISTRICT No. 3  
HOWARD COUNTY, MARYLAND

SCALE	ZONING	G. L. W. FILE No.
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DATE	TAX MAP - GRID	SHEET
12/FEB/02	22 8	21 of 27

BID & CONSTRUCTION  
19 SEPTEMBER 01



**FOREST CONSERVATION LEGEND**  
(FOR SHEETS 22 THRU 24)

- EXISTING TREE LINE
- PROPOSED TREE LINE
- LIMIT OF DISTURBANCE (LOD)
- FOREST CONSERVATION SIGNAGE
- TREE PROTECTION FENCE (SEE SEDIMENT CONTROL PLAN)
- EXISTING FOREST TO BE SAVED & RETAINED (SOLID SHADING AREA)
- EXISTING FOREST TO BE CLEARED (STRIPED SHADING AREA)
- PROPOSED FOREST CONSERVATION AREA (BY EASEMENT)
- WETLANDS
- 25' WETLAND BUFFER
- STREAM BUFFER

NOTE:  
THE EXISTING TOPO AND TRELINER SHOWN ON THIS PLAN ARE PRIOR TO ANY "GP-02-47" GRADING WORK.

- PERIMETER-1:**  
2060 LF OF TYPE-B BUFFER (SIDE OF STRUCTURE, ATHLETIC BALL FIELDS AND WOODLANDS ORIENTED TO ROADWAY). 100% OF THE LANDSCAPE REQUIREMENT IS FULFILLED BY THE RETENTION OF EXISTING WOODLAND/FOREST.
- PERIMETER-2:**  
338 LF OF TYPE-E BUFFER (PARKING LOT DEPRESSED AT LEAST 6 FEET BELOW ROADWAY). 100% OF THE LANDSCAPE REQUIREMENT IS FULFILLED BY THE RETENTION OF EXISTING WOODLAND/FOREST.
- PERIMETER-3:**  
514 LF OF TYPE-A BUFFER (PROPOSED INSTITUTIONAL USE VS. EXISTING NON-RESIDENTIAL USE, AN ANTIQUE SHOP). 100% OF THE LANDSCAPE REQUIREMENT IS FULFILLED BY THE RETENTION OF EXISTING WOODLAND/FOREST.
- PERIMETER-4:**  
205 LF (265' LESS 60' OF DRIVE OPENING) OF TYPE-E BUFFER (PARKING 10-30 FEET BELOW ROADWAY).
- PERIMETER-5:**  
396 LF OF TYPE-B BUFFER (INSTITUTIONAL FRONT/BALL FIELD ORIENTED TO ROADWAY).

APPROVED: FOR PRIVATE WATER & PRIVATE SEWERAGE SYSTEMS,  
HOWARD COUNTY HEALTH DEPARTMENT  
*[Signature]* 2/28/02  
County Health Officer Date

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING  
*[Signature]* 3/5/02  
Director Date

*[Signature]* 3/5/02  
Chief, Division of Land Development Date

*[Signature]* 3/5/02  
Chief, Development Engineering Division Date

**GLW GUTSCHICK LITTLE & WEBER, P.A.**  
CIVIL ENGINEERS, LAND SURVEYORS, LAND PLANNERS, LANDSCAPE ARCHITECTS  
3909 NATIONAL DRIVE - SUITE 250 - BURTONSVILLE OFFICE PARK  
BURTONSVILLE, MARYLAND 20866  
TEL: 301-421-4024 BALT: 410-890-1820 DC/VA: 301-889-2524 FAX: 301-421-4186

DATE	REVISION	BY	APP'R

PREPARED FOR:  
**OWNER**  
HOWARD COUNTY PUBLIC SCHOOL SYSTEM  
10910 ROUTE 108  
ELLCOTT CITY, MD 21043  
ATTN: CATHEEN YOUNG  
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**ARCHITECT**  
THOMAS CLARK ASSOCIATES ARCHITECTS  
2661 RIVA ROAD, SUITE 120  
ANNAPOLIS, MD 21401  
ATTN: THOMAS CLARK  
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**LANDSCAPE EDGE ANALYSIS & FOREST CONSERVATION OVERVIEW**

**WESTERN MIDDLE SCHOOL No. 3**  
**HOWARD COUNTY PUBLIC SCHOOL SYSTEM**  
L 3813 F173

WEST FRIENDSHIP ELECTRON DISTRICT No. 3  
HOWARD COUNTY, MARYLAND

SCALE	ZONING	G. L. W. FILE No.
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12/FEB/02	22 8	22 of 27

BID & CONSTRUCTION  
19 SEPTEMBER 01



NOTE:  
THE EXISTING TOPO AND TREELINE SHOWN ON THIS PLAN ARE PRIOR TO ANY "GP-02-45" GRADING WORK.

APPROVED: FOR PRIVATE WATER & PRIVATE SEWERAGE SYSTEMS,  
HOWARD COUNTY HEALTH DEPARTMENT  
*[Signature]* 2/27/02  
County Health Officer P.S. Date

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING  
*[Signature]* 3/5/02  
Director Date

*[Signature]* 3/5/02  
Chief, Division of Land Development Date

*[Signature]* 3/5/02  
Chief, Development Engineering Division Date

THIS PLAN IS FOR PLANTING PURPOSES ONLY!  
SEE SHEETS 24 FOR LEGEND AND 25 FOR PLANT LIST

**GLW GUTSCHICK LITTLE & WEBER, P.A.**  
CIVIL ENGINEERS, LAND SURVEYORS, LAND PLANNERS, LANDSCAPE ARCHITECTS  
3909 NATIONAL DRIVE - SUITE 250 - BURTONSVILLE OFFICE PARK  
BURTONSVILLE, MARYLAND 20866  
TEL: 301-421-4024 BALT: 410-880-1820 DC/VA: 301-389-2524 FAX: 301-421-4186

DATE	REVISION	BY	APP'R.

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ATTN: THOMAS CLARK  
TEL: 301-261-8700

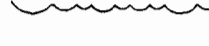




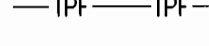




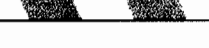
FOREST CONSERVATION and LANDSCAPE PLANTING PLAN  
**WESTERN MIDDLE SCHOOL No. 3**  
HOWARD COUNTY PUBLIC SCHOOL SYSTEM  
L. 3813 P.173

WEST FRIENDSHIP ELECTION DISTRICT No. 3  
HOWARD COUNTY, MARYLAND

SCALE 1" = 40'	ZONING RR-DEO	G. L. W. FILE No. 00-161
DATE 12/FEB/02	TAX MAP - GRID 22 8	SHEET 23 of 27

BID & CONSTRUCTION  
19 SEPTEMBER 01

**FOREST CONSERVATION LEGEND**

-  EXISTING TREE LINE
-  PROPOSED TREE LINE
-  LIMIT OF DISTURBANCE (LOD)
-  FOREST CONSERVATION SIGNAGE
-  TREE PROTECTION FENCE (SEE SEDIMENT CONTROL PLAN)
-  EXISTING FOREST TO BE SAVED & RETAINED (SOLID SHADING AREA)
-  EXISTING FOREST TO BE CLEARED (STRIPED SHADING AREA)
-  PROPOSED FOREST CONSERVATION AREA (BY EASEMENT)
-  WETLANDS
-  25' WETLAND BUFFER
-  STREAM BUFFER

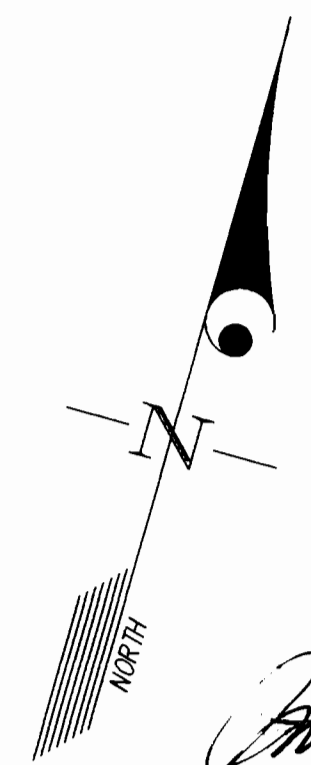
FOREST CONSERVATION EASEMENT AREA No.2  
20.69± AC.(TOTAL)

FOREST CONSERVATION EASEMENT AREA No.1  
2.20± AC.(TOTAL)

FOREST CONSERVATION EASEMENT AREA No.3  
0.27± AC.

WESTERN MIDDLE SCHOOL No.3

MD ROUTE 32  
(PRINCIPAL ARTERIAL VARIABLE WIDTH PUBLIC R/W)



NOTE:  
THE EXISTING TOPO AND TREELINE SHOWN ON THIS PLAN ARE PRIOR TO ANY "GP-02-45" GRADING WORK.

**THIS PLAN IS FOR PLANTING PURPOSES ONLY!**  
SEE SHEET 25 FOR PLANT LIST

APPROVED: FOR PRIVATE WATER & PRIVATE SEWERAGE SYSTEMS,  
HOWARD COUNTY HEALTH DEPARTMENT  
*[Signature]* 2/28/02  
County Health Officer Date

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING  
*[Signature]* 3/5/02  
Director Date

*[Signature]* 3/5/02  
Chief, Division of Land Development Date

*[Signature]* 3/5/02  
Chief, Development Engineering Division Date

EXISTING STORMWATER MANAGEMENT FACILITY

JOINS SHEET No.23 (MATCH LINE IS ALONG PARKING SPACE STRIPING)

BID & CONSTRUCTION  
19 SEPTEMBER 01

**GLW GUTSCHICK LITTLE & WEBER, P.A.**  
CIVIL ENGINEERS, LAND SURVEYORS, LAND PLANNERS, LANDSCAPE ARCHITECTS  
3909 NATIONAL DRIVE - SUITE 250 - BURTONSVILLE  
BURTONSVILLE, MARYLAND 20886  
TEL: 301-421-4024 BAL: 410-980-1820 DC/VA: 301-989-2524 FAX: 301-421-4186

DES.	DRN.	CHK.
DATE	REVISION	BY
		APPR.

DATE	REVISION	BY	APPR.

OWNER  
HOWARD COUNTY PUBLIC SCHOOL SYSTEM  
10910 ROUTE 108  
ELIJAH CITY, MD 21043  
ATTN: CATHEEN YOUNG  
TEL: 410-313-8704

PREPARED FOR :

ARCHITECT  
THOMAS CLARK ASSOCIATES  
ARCHITECTS  
2661 RIVA ROAD, SUITE 120  
ANNAPOLIS, MD 21401  
ATTN: THOMAS CLARK  
TEL: 301-261-8700

FOREST CONSERVATION and LANDSCAPE PLANTING PLAN  
**WESTERN MIDDLE SCHOOL No.3**  
HOWARD COUNTY PUBLIC SCHOOL SYSTEM  
L 3813 P173  
WEST FRIENDSHIP ELECTION DISTRICT No. 3  
HOWARD COUNTY, MARYLAND

SCALE 1" = 40'	ZONING RR-DEO	G. L. W. FILE No. 00-161
DATE 12/FEB/02	TAX MAP - GRID 22 8	SHEET 24 of 27



LANDSCAPING NOTES

1. This plan has been prepared in accordance with Section 16.124 of the Howard County Code and Chapter VI of the Howard County Landscape Manual.
2. Contractor shall notify all utilities at least (5) five days before starting work. All General Notes, especially those regarding utilities, on Sheet 1 shall apply.
3. Field verify underground utility locations and existing conditions before starting planting work. Contact construction manager if any relocations are required.
4. 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.
5. All plant material shall be full, heavy, well formed, and symmetrical, and conform to the A.A.N. Specifications, and be installed in accordance with project specifications.
6. No substitution shall be made without written consent of the owner or his representative.
7. All areas disturbed by construction activities but not otherwise planted, paved, or mulched shall be seeded in accordance with project specifications.
8. The contractor shall notify the owner in writing if he/she encounters soil drainage conditions which may be detrimental to the growth of the plants.
9. All exposed earth within limits of planting beds shall be mulched with shredded hardwood mulch per Planting Details.

SCHEDULE-A: PERIMETER LANDSCAPE EDGE					
PERIMETER No.	1	2	3	4	5
LOCATED ADJACENT TO	ROADWAYS	ROADWAYS	PERIMETER PROPERTY	ROADWAYS	ROADWAYS
LANDSCAPE TYPE	B	E	A	E	B
LINEAR FEET OF ROADWAY FRONTAGE/PERIMETER	2060'	338'	514'	205'	396'
CREDIT FOR EXISTING VEGETATION	YES, 100% CREDIT FOR RETENTION OF EX. WOODLANDS	YES, 100% CREDIT FOR RETENTION OF EX. WOODLANDS	YES, 100% CREDIT FOR RETENTION OF EX. WOODLANDS/TREES	NONE	NONE
CREDIT FOR WALL, FENCE OR BERM	N/A	N/A	N/A	YES, GRADE CHANGE (10'-30' LOWER THAN ROADWAY)	N/A
NUMBER OF PLANTS REQUIRED SHADE TREES EVERGREEN TREES SHRUBS	NONE	NONE	NONE	5 SHADE TREES N/A N/A (CREDIT)	8 SHADE TREES 10 EVG. TREES N/A
NUMBER OF PLANTS PROVIDED SHADE TREES EVERGREEN TREES OTHER TREES (@ 2:1 substitution) SHRUBS (10:1 substitution)	PLANTING PROVIDED IS VOLUNTARY	PLANTING PROVIDED IS VOLUNTARY	PLANTING PROVIDED IS VOLUNTARY	3 SHD. TREES (MIN.) N/A 5 ORN. (2.5 EQV.)** N/A (CREDIT)	6 SHD. TREES 12 EVG. TREES 11 ORN. (5.5 EQV.)** N/A

\*\*ORNAMENTAL TREES (ORN.) SUBSTITUTED FOR SHADE TREES (AT 2 ORN. = 1 SHADE TREE)

PLANT LIST						
KEY	SYMBOL	BOTANICAL NAME	COMMON NAME	SIZE & CONDITION	REMARKS	QUANTITY
<b>SHADE TREES</b>						
AR	⊙	ACER RUBRUM 'OCTOBER GLORY'	OCTOBER GLORY MAPLE	2 1/2"-3" CAL. B&B	30' O.C. U.O.N.	48
QP	⊕	QUERCUS PALUSTRIS	PIN OAK	2 1/2"-3" CAL. B&B	MIN. 25' O.C.	46
<b>ORNAMENTAL and EVERGREEN TREES</b>						
MZ	⊖	MALUS ZUMI 'CALOCARPA'	ZUMI CRABAPPLE	1 1/2"-2" CAL. 8'-10" HT. B&B	MATCHED IN GROUPS	26
PC	⊗	PRUNUS CERASIFERA 'THUNDERCLOUD'	PURPLELEAF FLOWERING PLUM	1 1/2"-2" CAL. 8'-10" HT. B&B	MATCHED IN GROUPS	45
PS	⊗	PINUS STROBUS	WHITE PINE	10-12' HT. B&B	SPACED AS INDICATED	38
TO	⊗	THUJA OCCIDENTALIS	NORTHERN WHITE CEDAR	8-10' HT. B&B	SPACED AS INDICATED	21
<b>SHRUBS</b>						
CE	○	ALATUS COMPACTUS	DWARF-WINGED EUONYMUS	30"-36" CONT.	AT 3'-0" O.C.	19
EP	○	EUONYMUS PATENS PAULI	PAULI EUONYMUS	30"-36" CONT.	AT 3'-0" O.C.	75
JA	○	JUNIPERUS ANDORRA	ANDORRA JUNIPER	18"-24" CONT.	AT 4'-6" O.C.	44
JS	○	JUNIPERUS CHINENSIS 'SARGENTI'	SARGENT'S JUNIPER	18"-24" CONT.	AT 4'-6" O.C.	36
PF	○	PHOTINIA FRASERI	FRASER'S PHOTINIA	36"-42" CONT.	AT 5'-0" O.C. U.O.N.	27
FR	⊕	FORSYTHIA X INTERMEDIA	BORDER FORSYTHIA	36"-48" CONT.	AT 4'-0" O.C.	20

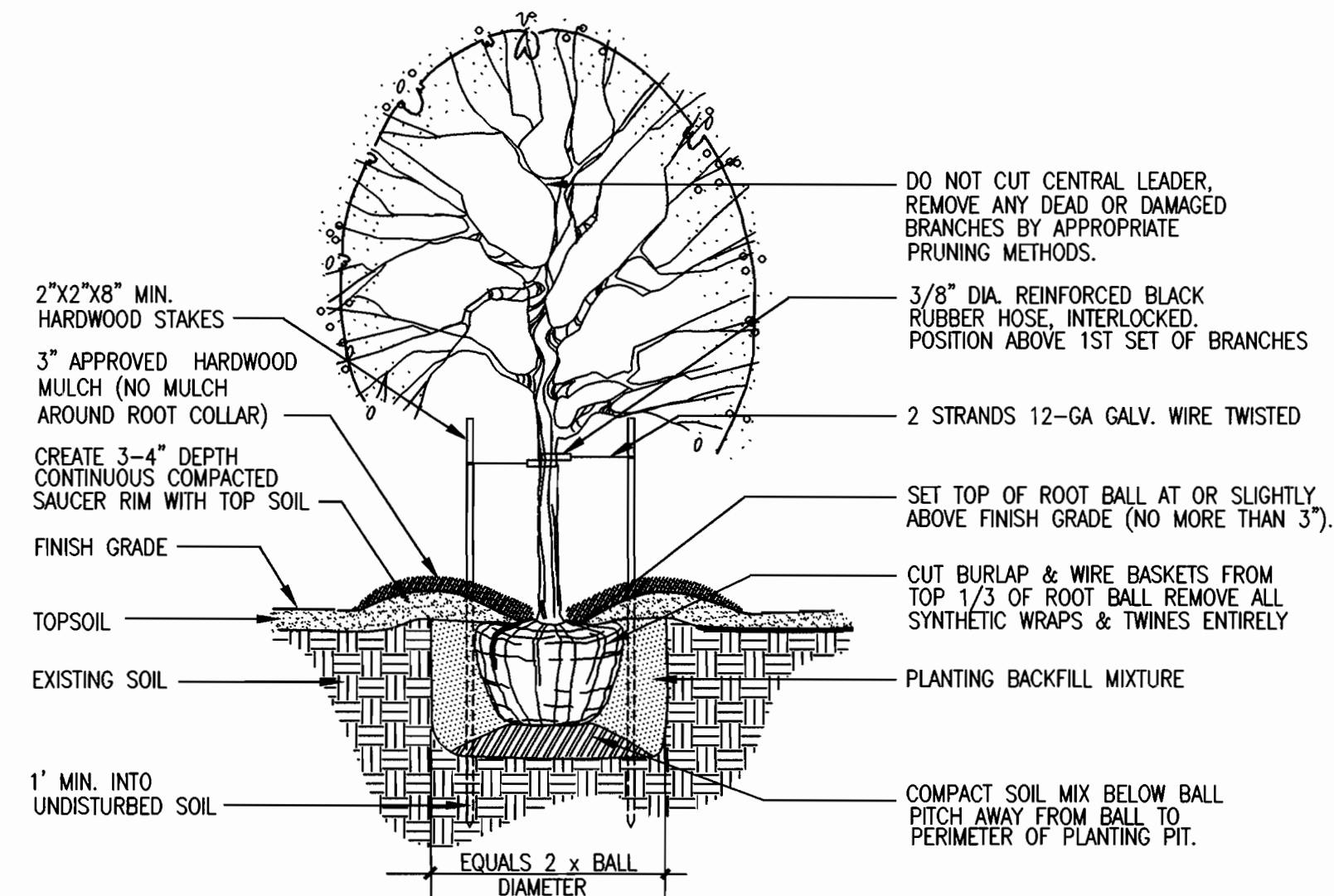
U.O.N. = UNLESS OTHERWISE NOTED.  
SCOPE INCLUDES REMOVAL (TO GROUND LEVEL OR PRUNING AS DIRECTED) OF UP TO 30 EXISTING TREES IN THE EXISTING TREE MASSES THAT REMAIN AFTER CLEARING. TREES AND BRANCHES RESULTING FROM THIS OPERATION SHALL BE REMOVED FROM THIS SITE.

SCHEDULE-D: PARKING LOT INTERNAL LANDSCAPING	
NUMBER OF PARKING SPACES	150 CAR SPACES + 14 BUS SPACES
NUMBER OF TREES REQUIRED (at 1 shade tree per 20 spaces)	8 SHADE TREES (or eqv. substitutions)
NUMBER OF TREES PROVIDED SHADE TREES OTHER TREES (2:1 substitution)	OVER 8 SHADE TREES

DEVELOPER'S LANDSCAPE CERTIFICATE

I/WE CERTIFY THAT THE LANDSCAPING SHOWN ON THIS PLAN WILL BE DONE ACCORDING TO THE PLAN, SECTION 16.124 OF THE HOWARD COUNTY CODE AND THE HOWARD COUNTY LANDSCAPE MANUAL. I/WE FURTHER CERTIFY THAT UPON COMPLETION A CERTIFICATION OF LANDSCAPE INSTALLATION ACCOMPANIED BY AN EXECUTED ONE YEAR GUARANTEE OF PLANT MATERIALS WILL BE SUBMITTED TO THE DEPARTMENT OF PLANNING AND ZONING.

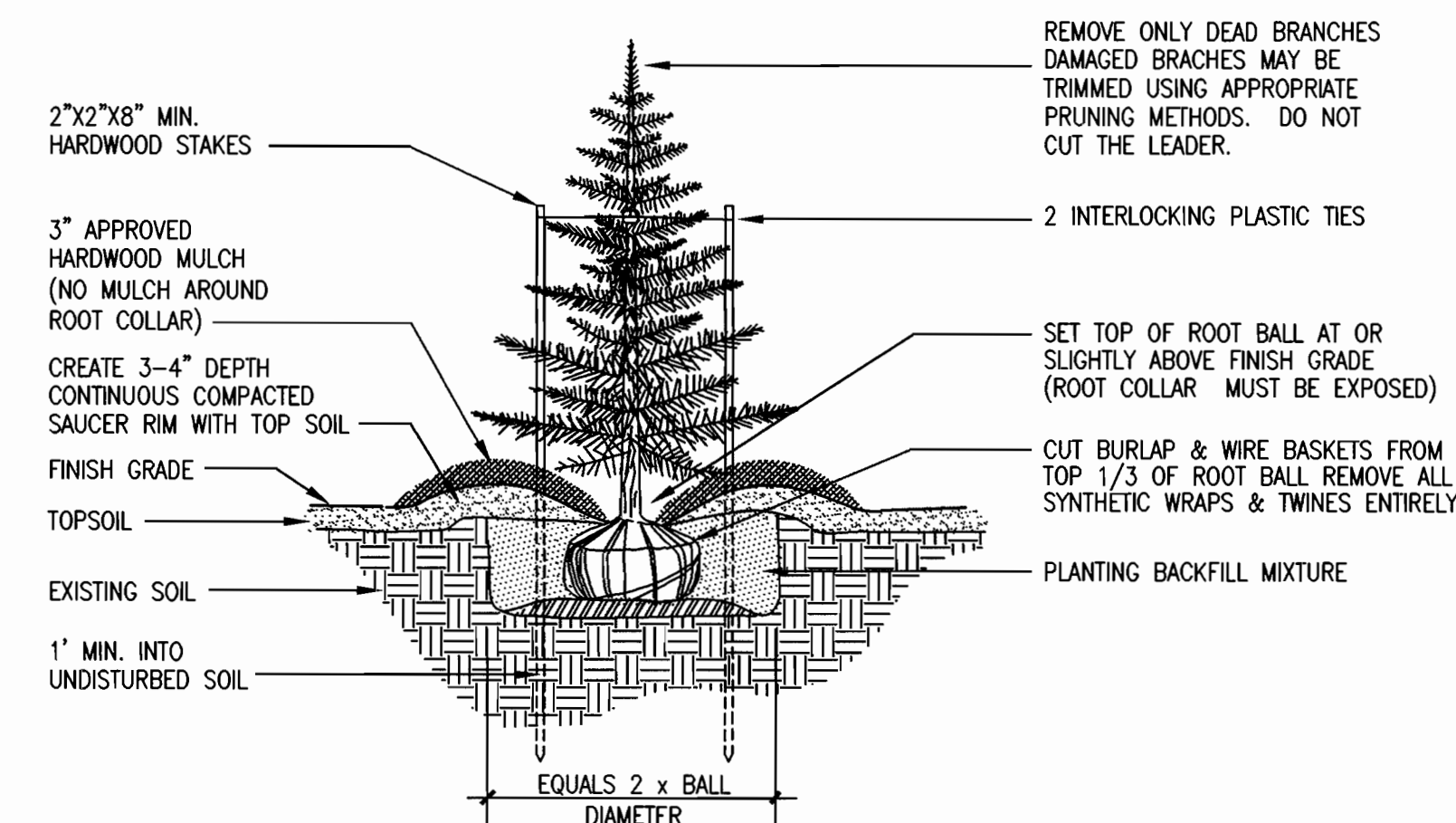
*David M. Scumacher* 2-20-02  
NAME DATE



NOTE: ALL SUPPORTING DEVICES (STAKES, WIRES, ETC.) SHALL BE REMOVED AFTER 2 GROWING SEASONS.

DECIDUOUS TREE PLANTING DETAIL FOR PLANTING MATERIAL UP TO 3 1/2" CALIPER

NTS



NOTE: ALL SUPPORTING DEVICES (STAKES, TIES, ETC.) SHALL BE REMOVED AFTER 2 GROWING SEASONS.

EVERGREEN TREE PLANTING DETAIL

NTS

NOTE: SET ROOT BALL AT OR SLIGHTLY ABOVE FINISH GRADE.

CONTAINERS TO BE REMOVED PRIOR TO PLANTING. SCARIFY ROOT EDGES TO STIMULATE GROWTH.

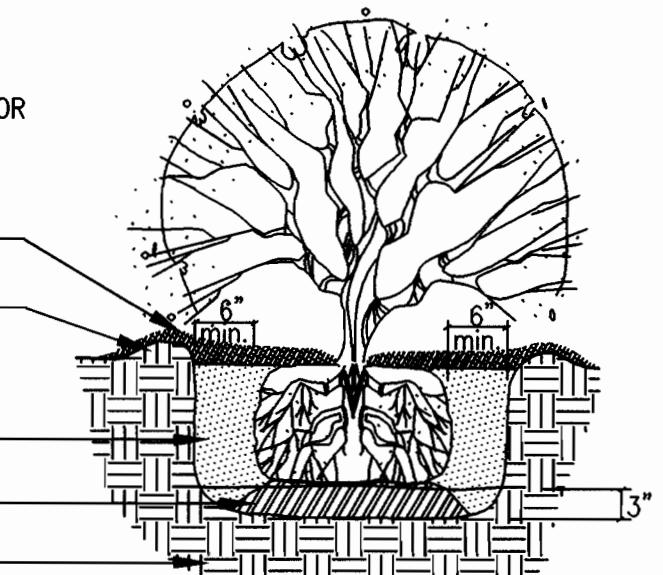
3" MULCH - AS SPECIFIED

MOUNDED EARTH SAUCER (FOR ISOLATED PLANTING SITUATION)

PLANTING BACKFILL MIXTURE

SCARIFY SOIL BELOW ROOTBALL

EXISTING SOIL



NTS

DATE OF SURVEY: 12/1/01  
BY: [Signature]  
1/24/02

APPROVED: FOR PRIVATE WATER & PRIVATE SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT  
*[Signature]* 2/25/02  
County Health Officer Date

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING  
*[Signature]* 2/15/02  
Director Date

*[Signature]* 3/4/02  
Chief, Division of Land Development Date

*[Signature]* 2/5/02  
Chief, Development Engineering Division Date

**GLW GUTSCHICK LITTLE & WEBER, P.A.**  
CIVIL ENGINEERS, LAND SURVEYORS, LAND PLANNERS, LANDSCAPE ARCHITECTS  
3909 NATIONAL DRIVE - SUITE 250 - BURTONSVILLE OFFICE PARK  
BURTONSVILLE, MARYLAND 20886  
TEL: 301-421-4024 BALT. 410-880-1820 DC/VA: 301-889-2524 FAX: 301-421-4186

DATE	REVISION	BY	APPR.

PREPARED FOR:  
OWNER: HOWARD COUNTY PUBLIC SCHOOL SYSTEM  
10910 ROUTE 108  
ELICOTT CITY, MD 21043  
ATTN: CATHEEN YOUNG  
TEL: 410-313-6704

ARCHITECT: THOMAS CLARK ASSOCIATES ARCHITECTS  
2561 RIVA ROAD, SUITE 120  
ANNAPOLIS, MD 21401  
ATTN: THOMAS CLARK  
TEL: 301-281-8700

PLANTING NOTES, SCHEDULES and DETAILS  
**WESTERN MIDDLE SCHOOL No. 3**  
**HOWARD COUNTY PUBLIC SCHOOL SYSTEM**  
L 3813 F173

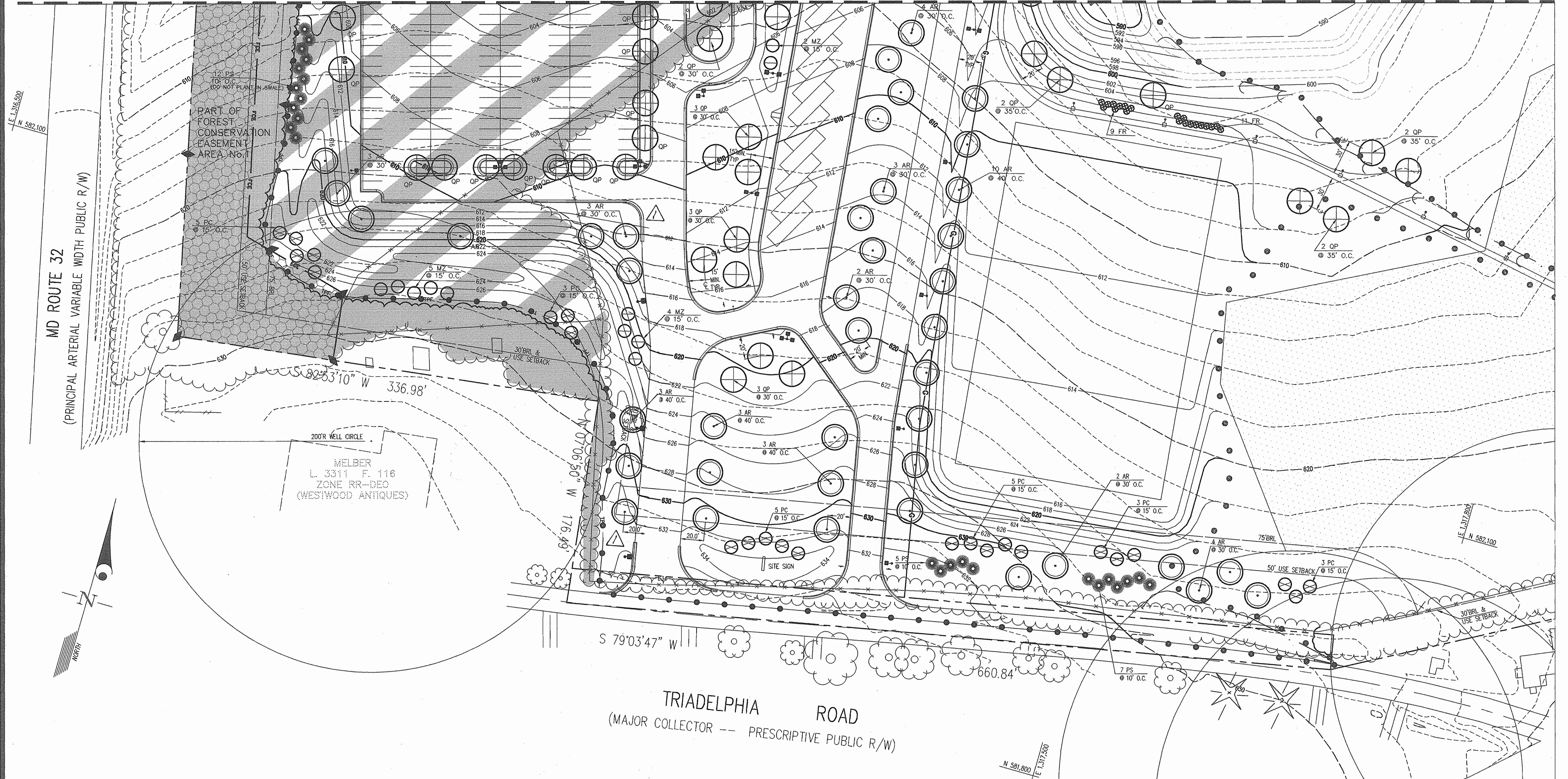
WEST FRIENDSHIP ELECTION DISTRICT No. 3  
HOWARD COUNTY, MARYLAND

SCALE	ZONING	G. L. W. FILE No.
AS SHOWN	RR-DEO	00-161
DATE	TAX MAP - GRID	SHEET
12/FEB/02	22 8	25 of 27

BID & CONSTRUCTION  
19 SEPTEMBER 01







NOTE:  
THE EXISTING TOPO AND TREELINE SHOWN ON THIS PLAN ARE PRIOR TO ANY "GP-02-45" GRADING WORK.

APPROVED: FOR PRIVATE WATER & PRIVATE SEWERAGE SYSTEMS,  
HOWARD COUNTY HEALTH DEPARTMENT  
*[Signature]* 2/28/02  
County Health Officer Date

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING  
*[Signature]* 3/5/02  
Director Date

*[Signature]* 3/5/02  
Chief, Division of Land Development Date

*[Signature]* 3/5/02  
Chief, Development Engineering Division Date

THIS PLAN IS FOR PLANTING PURPOSES ONLY!  
SEE SHEETS 24 FOR LEGEND AND 25 FOR PLANT LIST

STATE OF MARYLAND  
DEPARTMENT OF GENERAL SERVICES  
FISHER COLLINS & CARTER INC.  
REVISION BY  
3/28/07

STATE OF MARYLAND  
Michael B. Tran  
LANDSCAPE ARCHITECT  
989

**GLW GUTSCHICK LITTLE & WEBER, P.A.**  
CIVIL ENGINEERS, LAND SURVEYORS, LAND PLANNERS, LANDSCAPE ARCHITECTS  
3609 NATIONAL DRIVE - SUITE 250 - BURTONSVILLE OFFICE PARK  
BURTONSVILLE, MARYLAND 20866  
TEL: 301-421-4024 BAL: 410-880-1820 DC/VA: 301-989-2524 FAX: 301-421-4186

DATE	REVISION	BY	APP'R.
9-28-07	Added entrance widening IS	FCC	

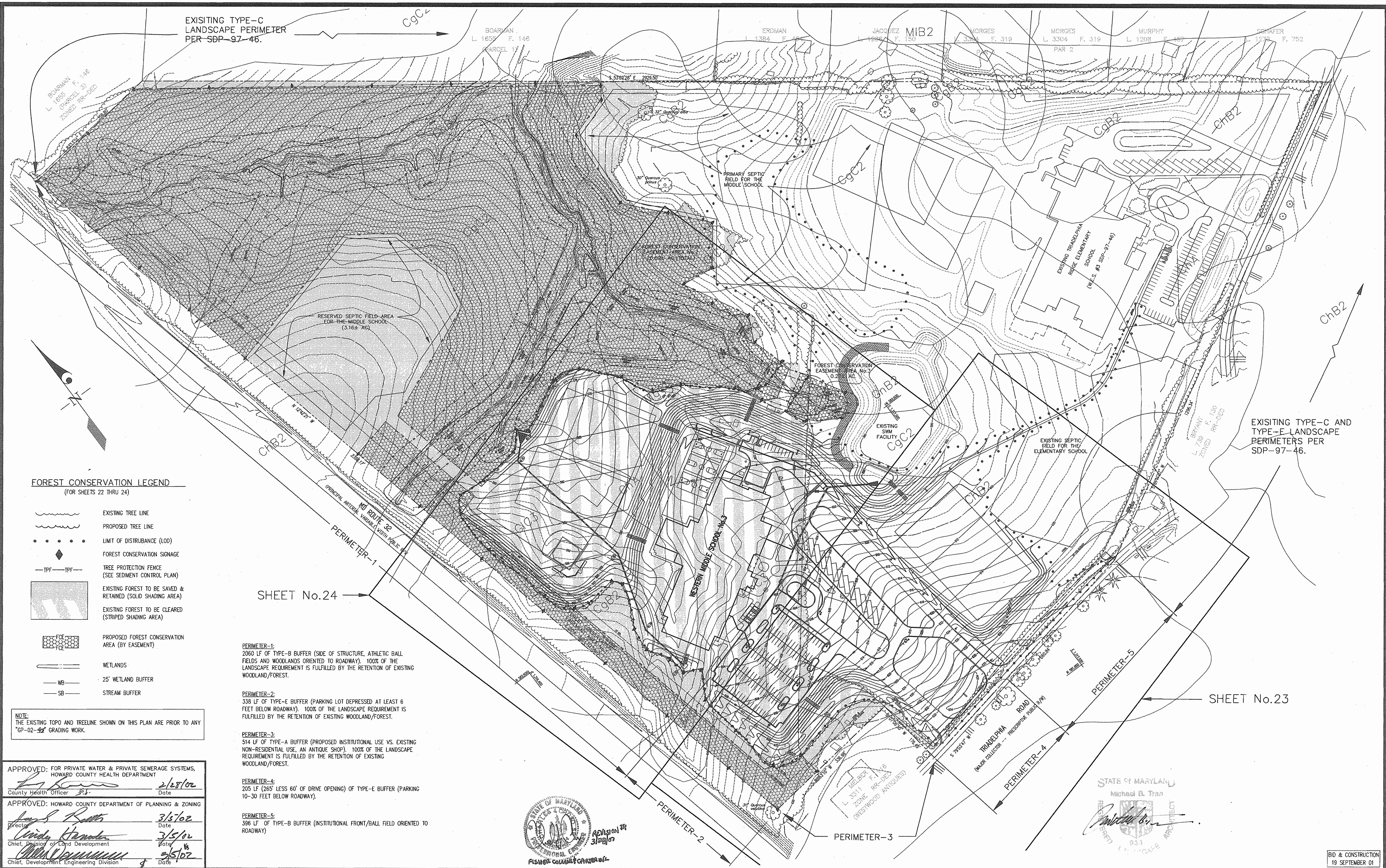
PREPARED FOR:  
OWNER  
HOWARD COUNTY PUBLIC SCHOOL SYSTEM  
10910 ROUTE 108  
ELLSWORTH CITY, MD 21043  
ATTN: CATHLEEN YOUNG  
TEL: 410-313-6704

ARCHITECT  
THOMAS CLARK ASSOCIATES  
ARCHITECTS  
2661 RIVA ROAD, SUITE 120  
ANNAPOLIS, MD 21401  
ATTN: THOMAS CLARK  
TEL: 301-261-8700

FOREST CONSERVATION and LANDSCAPE PLANTING PLAN  
**WESTERN MIDDLE SCHOOL No. 3**  
**HOWARD COUNTY PUBLIC SCHOOL SYSTEM**  
L. 3813 P.173  
WEST FRIENDSHIP ELECTION DISTRICT No. 3  
HOWARD COUNTY, MARYLAND

SCALE	ZONING	G. L. W. FILE No.
1" = 40'	RR-DEO	00-161
DATE	TAX MAP - GRID	SHEET
12/FEB/02	22 8	23 of 27

BID & CONSTRUCTION  
19 SEPTEMBER 01



**FOREST CONSERVATION LEGEND**  
(FOR SHEETS 22 THRU 24)

- EXISTING TREE LINE
- PROPOSED TREE LINE
- LIMIT OF DISTURBANCE (LOD)
- FOREST CONSERVATION SIGNAGE
- TREE PROTECTION FENCE (SEE SEDIMENT CONTROL PLAN)
- EXISTING FOREST TO BE SAVED & RETAINED (SOLID SHADING AREA)
- EXISTING FOREST TO BE CLEARED (STRIPED SHADING AREA)
- PROPOSED FOREST CONSERVATION AREA (BY EASEMENT)
- WETLANDS
- 25' WETLAND BUFFER
- STREAM BUFFER

NOTE: THE EXISTING TOPO AND TREELINE SHOWN ON THIS PLAN ARE PRIOR TO ANY "GP-02-42" GRADING WORK.

SHEET No.24

SHEET No.23

**PERIMETER-1:**  
2060 LF OF TYPE-B BUFFER (SIDE OF STRUCTURE, ATHLETIC BALL FIELDS AND WOODLANDS ORIENTED TO ROADWAY). 100% OF THE LANDSCAPE REQUIREMENT IS FULFILLED BY THE RETENTION OF EXISTING WOODLAND/FOREST.

**PERIMETER-2:**  
336 LF OF TYPE-E BUFFER (PARKING LOT DEPRESSED AT LEAST 6 FEET BELOW ROADWAY). 100% OF THE LANDSCAPE REQUIREMENT IS FULFILLED BY THE RETENTION OF EXISTING WOODLAND/FOREST.

**PERIMETER-3:**  
514 LF OF TYPE-A BUFFER (PROPOSED INSTITUTIONAL USE VS. EXISTING NON-RESIDENTIAL USE, AN ANTIQUE SHOP). 100% OF THE LANDSCAPE REQUIREMENT IS FULFILLED BY THE RETENTION OF EXISTING WOODLAND/FOREST.

**PERIMETER-4:**  
205 LF (265' LESS 60' OF DRIVE OPENING) OF TYPE-E BUFFER (PARKING 10-30 FEET BELOW ROADWAY).

**PERIMETER-5:**  
396 LF OF TYPE-B BUFFER (INSTITUTIONAL FRONT/BALL FIELD ORIENTED TO ROADWAY)

APPROVED: FOR PRIVATE WATER & PRIVATE SEWERAGE SYSTEMS,  
HOWARD COUNTY HEALTH DEPARTMENT  
County Health Officer *[Signature]* 2/28/02 Date

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING  
Director *[Signature]* 3/5/02 Date  
Chief, Division of Land Development *[Signature]* 3/5/02 Date  
Chief, Development Engineering Division *[Signature]* 3/5/02 Date



**GLW GUTSCHICK LITTLE & WEBER, P.A.**  
CIVIL ENGINEERS, LAND SURVEYORS, LAND PLANNERS, LANDSCAPE ARCHITECTS  
3909 NATIONAL DRIVE - SUITE 250 - BURTONSVILLE OFFICE PARK  
BURTONSVILLE, MARYLAND 20866  
TEL: 301-421-4024 BALT: 410-880-1820 DC/VA: 301-989-2524 FAX: 301-421-4186

NO.	DATE	REVISION
1	9-20-07	Added entrance widening

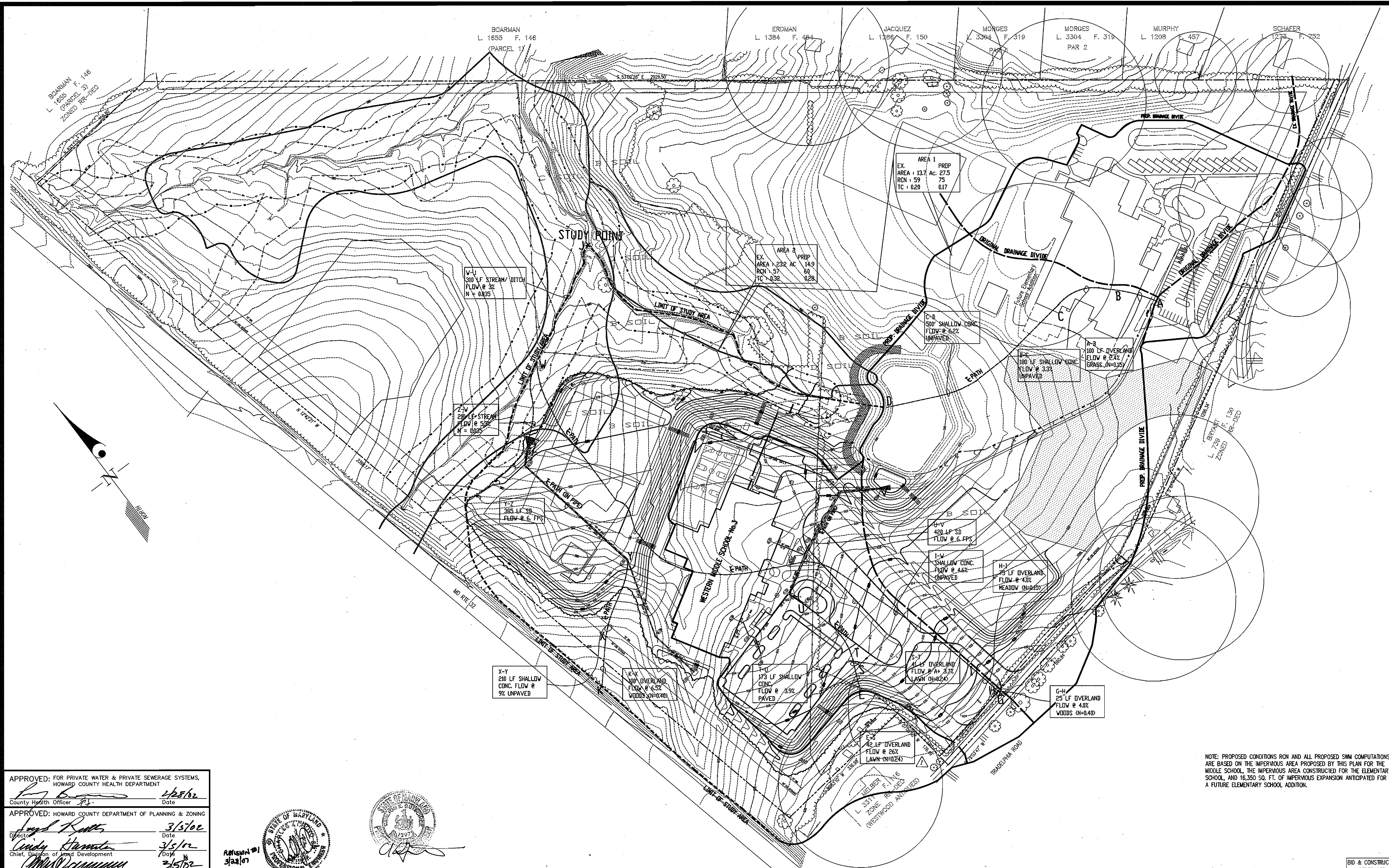
OWNER:  
HOWARD COUNTY PUBLIC SCHOOL SYSTEM  
10910 ROUTE 108  
ELICOTT CITY, MD 21043  
ATTN: CATHEEN YOUNG  
TEL: 410-313-6704

ARCHITECT:  
THOMAS CLARK ASSOCIATES ARCHITECTS  
2681 RIVA ROAD, SUITE 120  
ANNAPOLIS, MD 21401  
ATTN: THOMAS CLARK  
TEL: 301-261-8700

LANDSCAPE EDGE ANALYSIS & FOREST CONSERVATION OVERVIEW  
**WESTERN MIDDLE SCHOOL No. 3**  
**HOWARD COUNTY PUBLIC SCHOOL SYSTEM**  
L. 3813 FJ73  
WEST FRIENDSHIP ELECTION DISTRICT No. 3  
HOWARD COUNTY, MARYLAND

SCALE	ZONING	G. L. W. FILE No.
1" = 100'	RR-DEO	00-161
DATE	TAX MAP - GRID	SHEET
12/FEB/02	22 8	22 of 27

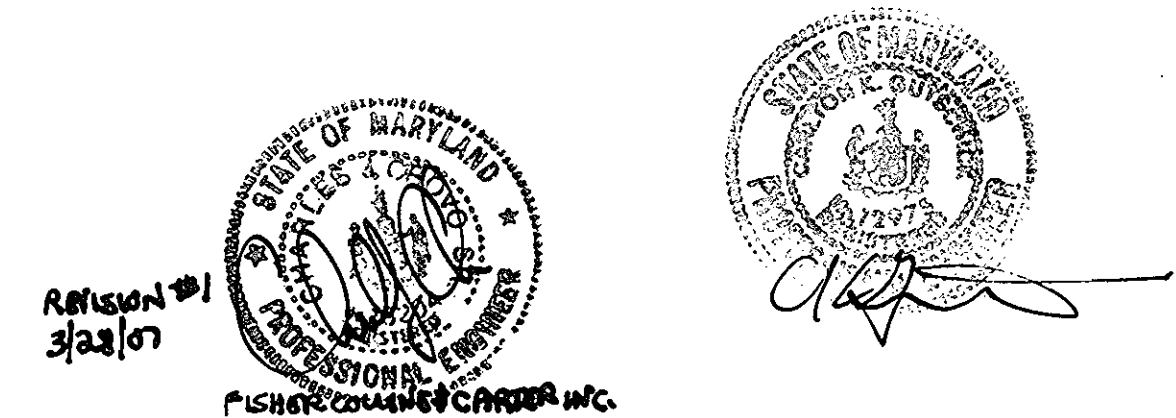
BID & CONSTRUCTION  
19 SEPTEMBER 01



NOTE: PROPOSED CONDITIONS RCN AND ALL PROPOSED SWM COMPUTATIONS ARE BASED ON THE IMPERVIOUS AREA PROPOSED BY THIS PLAN FOR THE MIDDLE SCHOOL, THE IMPERVIOUS AREA CONSTRUCTED FOR THE ELEMENTARY SCHOOL, AND 16,350 SQ. FT. OF IMPERVIOUS EXPANSION ANTICIPATED FOR A FUTURE ELEMENTARY SCHOOL ADDITION.

APPROVED: FOR PRIVATE WATER & PRIVATE SEWERAGE SYSTEMS,  
HOWARD COUNTY HEALTH DEPARTMENT  
County Health Officer *[Signature]* 2/28/02  
Date

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING  
Director *[Signature]* 3/5/02  
Date  
Chief, Division of Land Development *[Signature]* 3/5/02  
Date  
Chief, Development Engineering Division *[Signature]* 3/5/02  
Date



**GLW GUTSCHICK LITTLE & WEBER, P.A.**  
CIVIL ENGINEERS, LAND SURVEYORS, LAND PLANNERS, LANDSCAPE ARCHITECTS  
3909 NATIONAL DRIVE - SUITE 250 - BERTONSVILLE OFFICE PARK  
BURTONSVILLE, MARYLAND 20866  
TEL: 301-421-4024 BAL: 410-880-1820 DC/VA: 301-989-2524 FAX: 301-421-4186

DATE	REVISION	BY	APP'R.
9-28-07	Added entrance widening (1)	FCC	

PREPARED FOR:  
OWNER: HOWARD COUNTY PUBLIC SCHOOL SYSTEM  
10910 ROUTE 108  
ELLSWORTH CITY, MD 21043  
ATTN: CATHEEN YOUNG  
TEL: 410-313-6704

ARCHITECT:  
THOMAS CLARK ASSOCIATES  
ARCHITECTS  
2661 RIVA ROAD, SUITE 120  
ANNEAPOLIS, MD 21401  
ATTN: THOMAS CLARK  
TEL: 301-261-8700

**DRAINAGE AREA MAP (SWM)**  
**WESTERN MIDDLE SCHOOL No. 3**  
**HOWARD COUNTY PUBLIC SCHOOL SYSTEM**  
L. 3813 F.177

WEST FRIENDSHIP ELECTION DISTRICT No. 3  
HOWARD COUNTY, MARYLAND

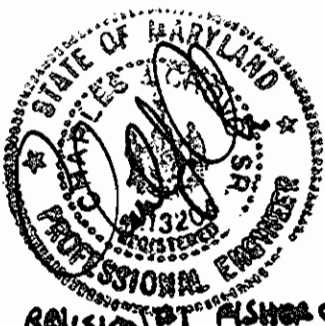
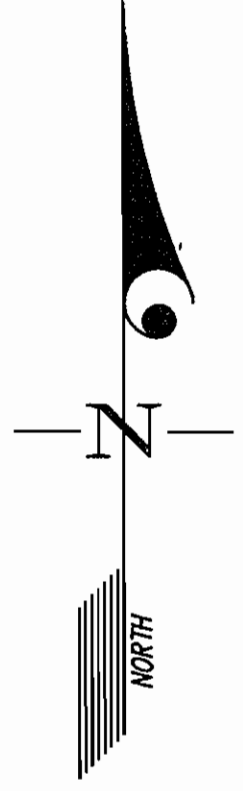
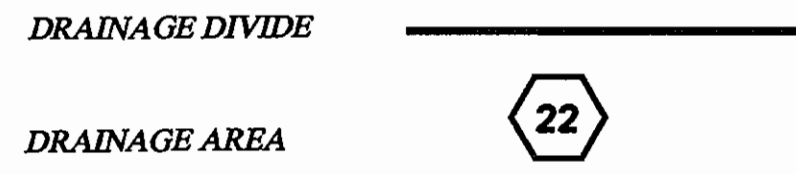
SCALE	ZONING	G. L. W. FILE No.
1" = 100'	RR-DEO	00-161
DATE	TAX MAP - GRID	SHEET
12/FEB/02	22 8	21 of 27

BID & CONSTRUCTION  
19 SEPTEMBER 01

DRAINAGE AREAS - WESTERN MIDDLE SCHOOL					
AREA	D.A. (ACRES)	GRASS (ACRES)	IMP. (ACRES)	% IMP.	C
I-21	1.00	0.45	0.55	55	0.66
I-22	1.50	0.85	0.65	43	0.48
I-23	0.70	0.25	0.45	64	0.61
I-24	0.80	0.25	0.55	72	0.82
I-25	0.80	0.30	0.50	63	0.62
I-26	1.10	0.55	0.55	50	0.52
R-27	0.90	0.00	0.90	100	0.85
R-28	0.70	0.60	0.10	100	0.85
I-29	0.55	0.40	0.15	28	0.34
I-30	0.40	0.30	0.10	25	0.34
I-31	0.15	0.05	0.10	67	0.63
I-32	0.15	0.08	0.07	47	0.49
I-35	0.70	0.65	0.05	7	0.22
I-37	10.80	8.00	2.80	26	0.48
TOTALS	20.65	10.13	10.52	51	—

SOILS CHART		
SYMBOL	NAME	CLASS
Cg,Ch	CHESTER	B
MLMg	MANOR	B
Gl	GLENELG	B
Gn	GLENVILLE	C
Ba	BAILE	D

**LEGEND**



APPROVED: FOR PRIVATE WATER & PRIVATE SEWERAGE SYSTEMS,  
HOWARD COUNTY HEALTH DEPARTMENT  
*[Signature]* 3/29/02  
County Health Officer

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING  
*[Signature]* 3/5/02  
Director  
*[Signature]* 3/5/02  
Chief, Division of Land Development  
*[Signature]* 3/5/02  
Chief, Development Engineering Division

NOTE: TOPOGRAPHY BEYOND THE SCHOOL SITE IS HOWARD COUNTY 5' TOPO.

**GLW GUTSCHICK LITTLE & WEBER, P.A.**  
CIVIL ENGINEERS, LAND SURVEYORS, LAND PLANNERS, LANDSCAPE ARCHITECTS  
3909 NATIONAL DRIVE - SUITE 250 - BURTONSVILLE OFFICE PARK  
BURTONSVILLE, MARYLAND 20866  
TEL: 301-421-4024 BAL: 410-880-1820 DC/VA: 301-988-2524 FAX: 301-421-4188

DATE	REVISION	BY	APP'R.
9-28-07	Add entrance widening (L)	FCO	

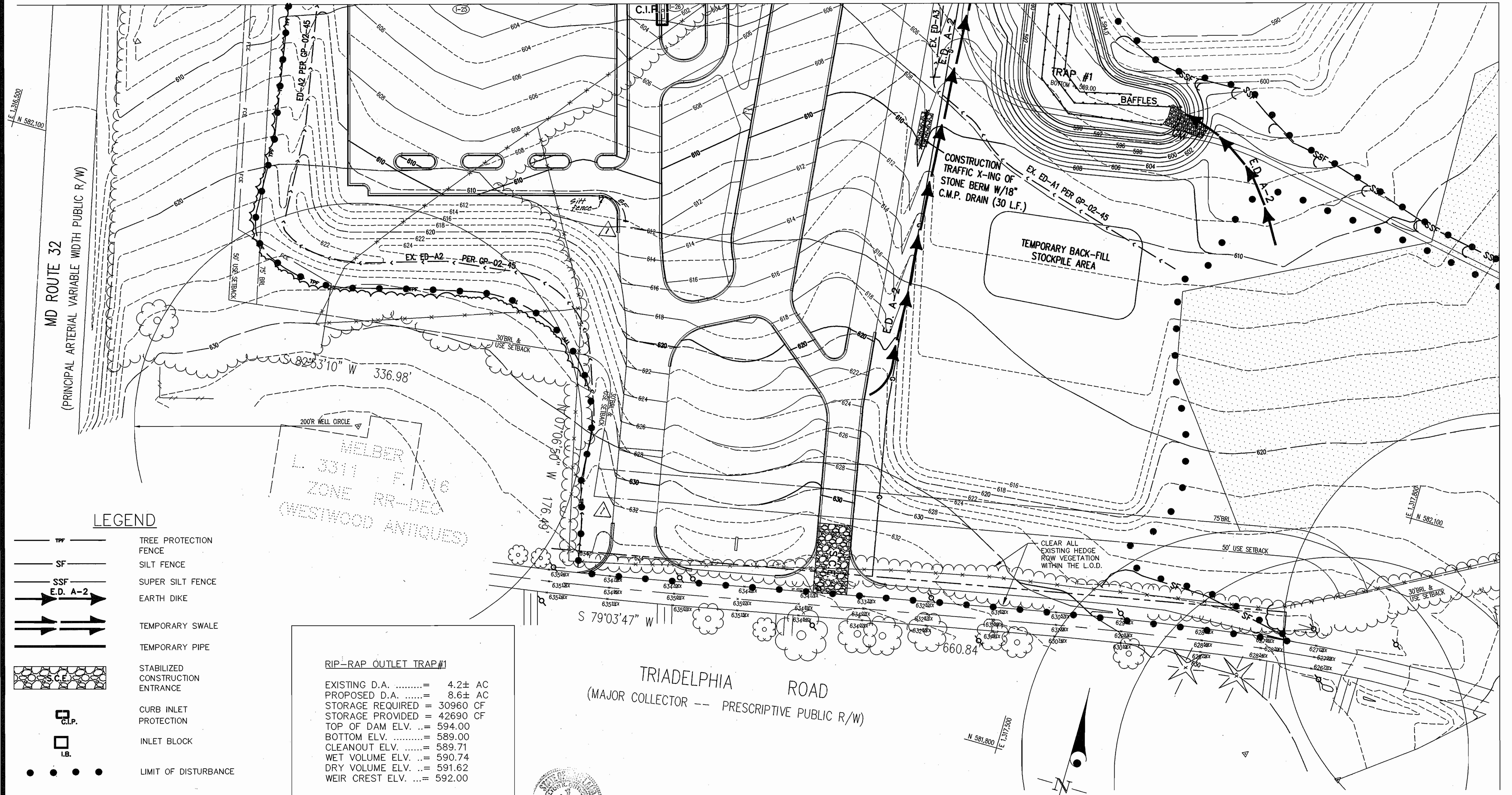
OWNER  
HOWARD COUNTY PUBLIC SCHOOL SYSTEM  
10910 ROUTE 108  
ELICOTT CITY, MD 21043  
ATTN: CATHEEN YOUNG  
TEL: 410-313-6704

ARCHITECT  
THOMAS CLARK ASSOCIATES ARCHITECTS  
2661 RIVA ROAD, SUITE 120  
ANNAPOLIS, MD 21401  
ATTN: THOMAS CLARK  
TEL: 301-261-8700

DRAINAGE AREA MAP (SD)  
**WESTERN MIDDLE SCHOOL No. 3**  
**HOWARD COUNTY PUBLIC SCHOOL SYSTEM**  
L. 3813 F.173  
WEST FRIENDSHIP ELECTION DISTRICT No. 3  
HOWARD COUNTY, MARYLAND

SCALE	ZONING	G. L. W. FILE No.
1"=100'	RR-DEO	00-161
DATE	TAX MAP - GRID	SHEET
12/FEB/02	22 8	20 of 27

BID & CONSTRUCTION  
19 SEPTEMBER 01



**LEGEND**

- TREE PROTECTION FENCE
- SILT FENCE
- SUPER SILT FENCE
- EARTH DIKE
- TEMPORARY SWALE
- TEMPORARY PIPE
- STABILIZED CONSTRUCTION ENTRANCE
- CURB INLET PROTECTION
- INLET BLOCK
- LIMIT OF DISTURBANCE

**TRAP #1**

EXISTING D.A. .... = 4.2± AC  
 PROPOSED D.A. .... = 8.6± AC  
 STORAGE REQUIRED = 30960 CF  
 STORAGE PROVIDED = 42690 CF  
 TOP OF DAM ELV. ... = 594.00  
 BOTTOM ELV. .... = 589.00  
 CLEANOUT ELV. .... = 589.71  
 WET VOLUME ELV. ... = 590.74  
 DRY VOLUME ELV. ... = 591.62  
 WEIR CREST ELV. ... = 592.00

APPROVED: FOR PRIVATE WATER & PRIVATE SEWERAGE SYSTEMS,  
 HOWARD COUNTY HEALTH DEPARTMENT

*[Signature]* 2/25/02  
 County Health Officer Date

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING

*[Signature]* 3/5/02  
 Director Date

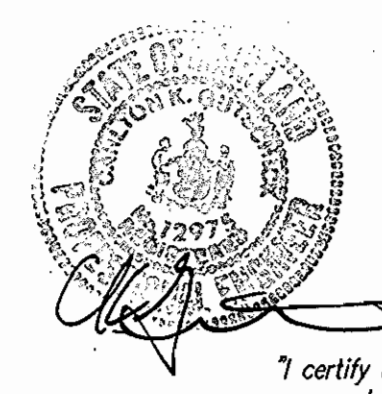
*[Signature]* 3/5/02  
 Chief, Division of Land Development Date

*[Signature]* 2/5/02  
 Chief, Development Engineering Division Date

These plans have been reviewed for the Howard Soil Conservation District and meet the technical requirements.

*[Signature]* 2/27/02  
 Natural Resources Conservation Service Date

*[Signature]* 2/27/02  
 Howard S.C.D. Date



**ENGINEER'S CERTIFICATE**

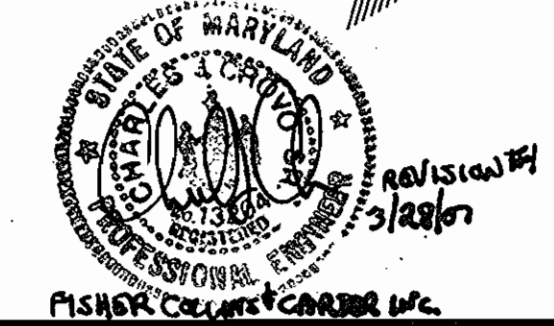
I certify that this plan for erosion and sediment control represents a practical and workable plan based on my personal knowledge of the site conditions and that it was prepared in accordance with the requirements of the Howard Soil Conservation District.

*[Signature]* 2-15-02  
 Date

**DEVELOPER'S/BUILDER'S CERTIFICATE**

I/We certify that all development and/or construction will be done according to this plan, and that any responsible personnel involved in the construction project will have a Certificate of Attendance at a Maryland Department of the Environment Approved Training Program for the Control of Sediment and Erosion before beginning the project. I also authorize periodic on-site inspection by the HSCD.

*[Signature]* 02-14-02  
 Signature of Developer/Builder Date



**GLW GUTSCHICK LITTLE & WEBER, P.A.**  
 CIVIL ENGINEERS, LAND SURVEYORS, LAND PLANNERS, LANDSCAPE ARCHITECTS  
 3909 NATIONAL DRIVE - SUITE 250 - BURTONTVILLE OFFICE PARK  
 BURTONTVILLE, MARYLAND 20866  
 TEL: 301-421-4024 BAL: 410-880-1820 DC/VA: 301-989-2524 FAX: 301-421-4188

DATE	REVISION	BY	APP'R.
2-28-02	Added entrance widening & silt fence	FCC	

PREPARED FOR:

OWNER:  
 HOWARD COUNTY PUBLIC SCHOOL SYSTEM  
 10910 ROUTE 108  
 ELLICOTT CITY, MD 21043  
 ATTN: CATHLEEN YOUNG  
 TEL: 410-313-6704

ARCHITECT:  
 THOMAS CLARK ASSOCIATES  
 ARCHITECTS  
 2661 RIVA ROAD, SUITE 120  
 ANNAPOLIS, MD 21401  
 ATTN: THOMAS CLARK  
 TEL: 301-261-8700

**SEDIMENT & EROSION CONTROL PLAN**

**WESTERN MIDDLE SCHOOL No. 3**  
**HOWARD COUNTY PUBLIC SCHOOL SYSTEM**  
 L. 3813 P.173

HOWARD COUNTY, MARYLAND

SCALE	ZONING	G. L. W. FILE No.
1" = 40'	RR-DEO	00-161
DATE	TAX MAP - GRID	SHEET
12/FEB/02	22 8	14 of 27

(SEE DETAIL ON SHEET 4 FOR CONTINUATION OF BITUMINOUS PATH TO THE ELEMENTARY SCHOOL)

BID & CONSTRUCTION  
 19 SEPTEMBER 01

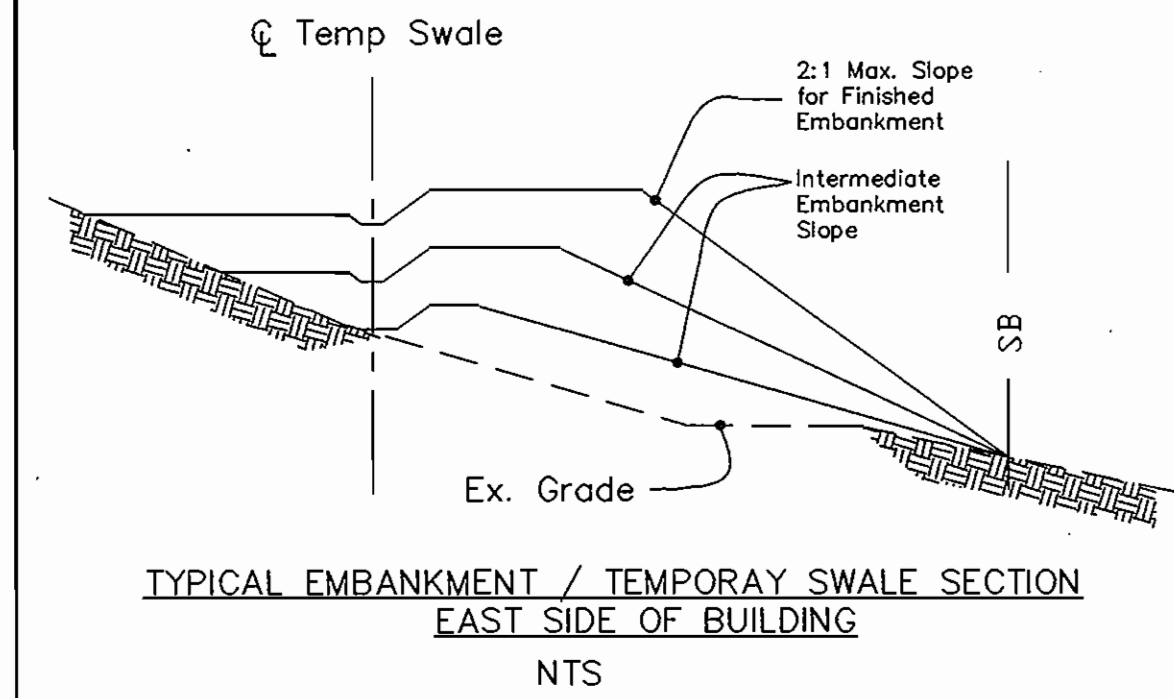


**LEGEND**

- TREE PROTECTION FENCE
- SF — SILT FENCE
- SSF — SUPER SILT FENCE
- E.D. A-2 — EARTH DIKE
- — TEMPORARY SWALE
- — TEMPORARY PIPE
- — STABILIZED CONSTRUCTION ENTRANCE
- — CURB INLET PROTECTION
- — INLET BLOCK
- LIMIT OF DISTURBANCE

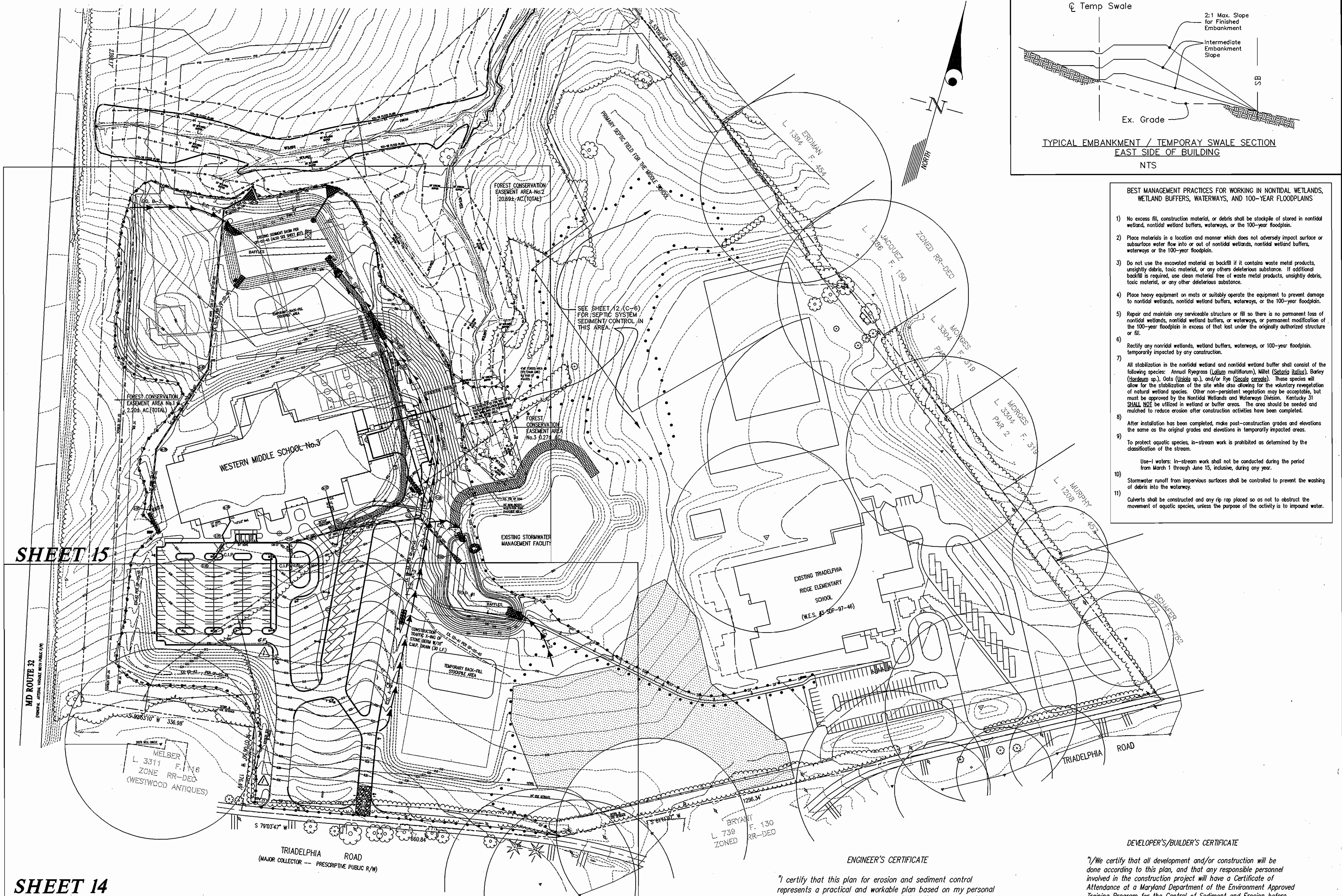
**SEQUENCE OF CONSTRUCTION**

1. UPDATE THE GP-02-25 GRADING PERMIT FOR THE WORK ON THIS SDP.
2. CHECK AND REPAIR AS NECESSARY ALL GP-02-25 SEDIMENT CONTROL MEASURES THAT ARE TO REMAIN IN USE FOR THE SDP CONSTRUCTION WORK.
3. INITIATE CONSTRUCTION ON THE BUILDING AND THE PORTION OF THE SITE WITHIN THE CURRENT GP-02-25 L.O.D.
4. CONTACT THE APPLICABLE LOCAL UTILITY COMPANY FOR THE RELOCATION OF UTILITY POLES ALONG TRIADDELPHIA ROAD.
5. STAKE OUT THE EXPANDED LIMIT OF DISTURBANCE (LOD) FOR THE SDP WORK WEST OF THE NORTH BALL FIELD, THE AREA EAST OF THE MIDDLE SCHOOL AND THE SEPTIC FIELD AREA (1-DAY). RELOCATE AND/OR INSTALL TREE PROTECTION FENCE PLUS FOREST CONSERVATION SIGNS ALONG THE PORTION OF THE EXPANDED LOD (FROM #4 ABOVE) THAT IS WITHIN THE WOODLANDS (1-2 DAYS).
6. RELOCATE AND/OR INSTALL THE PERIMETER SILT FENCE AND SUPER SILT FENCE FOR THE EXPANDED SDP LOD (1-2 DAYS).
7. CHECK TO ENSURE THAT THE STORM DRAIN DIVERSION (ES-33 TO 1-37) CONSTRUCTED UNDER GP-02-25 AND ASSOCIATED EARTH DIKE/SWALE FROM 1-37 TO TRIADDELPHIA ROAD IS OPERATIONAL.
8. CONSTRUCT THE SEDIMENT TRAP AND RELOCATE THE SWALE AND EARTH DIKES ON THE EAST SIDE OF THE SCHOOL (1-2 WEEKS).
9. OBTAIN PERMISSION FROM THE SEDIMENT CONTROL INSPECTOR (SC) TO CLEAR AND GRUB THE REMAINDER OF THE WOODED AREA WITHIN THE EXPANDED LOD EAST OF THE MIDDLE SCHOOL. ALSO SEE BMP'S ("BEST MANAGEMENT PRACTICES" AT RIGHT, THIS SHEET) AND SHEET 12 (C-6) FOR SEPTIC SYSTEM CONSTRUCTION SEQUENCING. PROVIDE DUST CONTROL AS NECESSARY.
10. GRADE THE REMAINDER OF THE SITE EAST OF THE MIDDLE SCHOOL AND COORDINATE INSTALLATION OF UNDER GROUND UTILITIES WITH THE GRADING OPERATION (3-4 WEEKS). NOTE, RAISE THE TEMPORARY SWALE AS THE EMBANKMENT EAST OF THE SCHOOL BUILDING IS BUILT HIGHER BY KEEPING THE TO EMBANKMENT HIGHER THAN THE SWALE (SEE TYPICAL SECTION AT RIGHT, THIS SHEET). PROVIDE DUST CONTROL AS NECESSARY.
11. INSTALL THE STORM DRAIN SYSTEM FROM ES-20 TO 1-30, 1-25 AND 1-26; TEMPORARILY BLOCK THE TOP OF INLETS 1-21 AND 1-22 AND ENSURE THAT THE TEMP. SWALE TO THE SEDIMENT BASIN IS OPERATIONAL (3-4 WEEKS). IMMEDIATELY REPAIR ANY DAMAGE TO THE SWALE AND ITS EMBANKMENT, DELAY THE INSTALLATION OF THE "SPORTS EDGE" DRAIN.
12. BRING THE SITE TO APPROPRIATE SUBGRADE IN ORDER TO INSTALL CURB/GUTTER AND BASE PAVING (4-6 WEEKS). DELAY INSTALLATION OF THE BITUMINOUS PATH IN THE VICINITY OF THE TEMPORARY SWALE AND THE SEDIMENT TRAP. NOTE, THE TEMPORARY SWALE MUST REMAIN OPERATIONAL TO CONVEY RUN OFF TO THE BASIN UNTIL THE PARKING LOTS AND DRIVEWAYS ARE PAVED. PROVIDE DUST CONTROL AS NECESSARY.
13. STABILIZE ALL BARE DIRT AREA (EXCEPT THE TEMPORARY SWALE, THE BASIN, THE TRAP AND THEIR BACK FILL STOCKPILES) WITH PERMANENT SEEDING IN ACCORDANCE WITH THE SEEDING NOTES AND PROJECT SPECIFICATIONS (1-WEEK).
14. ONCE THE BUS LOOP/DRIVEWAY, PLAY COURT AND SERVICE AREA PARKING LOT ARE PAVED AND THE DITCH SECTION ALONG THE EAST SIDE OF THE BUS ENTRANCE DRIVE IS STABILIZED, OBTAIN PERMISSION FROM THE INSPECTOR TO FILL IN THE TEMPORARY SWALE. INSTALL THE "SPORTS EDGE" DRAIN AND UNBLOCK INLETS 1-21 AND 1-29 (3-5 DAYS).
15. INSTALL THE EARTH ONE LEADING TO THE NORTHEAST CORNER OF THE SEDIMENT BASIN AND OBTAIN PERMISSION FROM THE SC TO CLEAR, GRUB AND GRADE THE REMAINDER OF THE WOODED AREA WEST OF THE NORTH BALL FIELD. PROVIDE DUST CONTROL AS NECESSARY AND STABILIZE WITH PERMANENT SEEDING ONCE THIS AREA IS BROUGHT TO FINISHED GRADE.
16. ONCE THE AREA DRAINING TO THE BASIN HAS BEEN STABILIZED OBTAIN PERMISSION FROM THE INSPECTOR TO BACK FILL THE BASIN (1-3 DAYS). IMMEDIATELY STABILIZE THE BARE DIRT AREA IN THIS AREA WITH PERMANENT SEEDING PLUS EROSION CONTROL MATTING ON THE HILL SIDE (1-DAY).
17. FLUSH THE STORM DRAIN SYSTEM DRAINING TO ES-20 AND OBTAIN PERMISSION FROM THE INSPECTOR TO BACK FILL THE TRAP AND THEN CONVERT IT INTO A FOREBAY FOR STORM WATER MANAGEMENT AND THEN INSTALL THE MISSING SECTION OF BITUMINOUS PATH (1-10 DAYS). IMMEDIATELY STABILIZE ANY REMAINING BARE DIRT AREA IN THIS VICINITY WITH PERMANENT SEEDING PLUS EROSION CONTROL MATTING ALONG THE EMBANKMENT INTO THE FOREBAY.
18. INSTALL LANDSCAPE PLANTING AND SURFACE COURSE PAVING (THIS CAN BE DONE ANYTIME AFTER SEQUENCE #12).
19. REMOVE ANY REMAINING PERIMETER SILT FENCE OR SUPER SILT FENCE. CHECK AND CLEAN THE EXISTING SWM FACILITY OF ANY SEDIMENT AND RESTORE THE POND TO ITS ORIGINAL DESIGN GRADE (PER SDP-91-46).
20. CHECK AND RELOCATE ALL FOREST CONSERVATION SIGNS TO THE FINE LINE. REPLACE AND INSTALL ANY DAMAGED OR MISSING SIGNS.
21. FINISH BUILDING INTERIOR WORK AND CLEAN UP.
22. OBTAIN USE AND OCCUPANCY PERMIT.



**BEST MANAGEMENT PRACTICES FOR WORKING IN NONTIDAL WETLANDS, WETLAND BUFFERS, WATERWAYS, AND 100-YEAR FLOODPLAINS**

- 1) No excess fill, construction material, or debris shall be stockpiled or stored in nontidal wetlands, nontidal wetland buffers, waterways, or the 100-year floodplain.
- 2) Place materials in a location and manner which does not adversely impact surface or subsurface water flow into or out of nontidal wetlands, nontidal wetland buffers, waterways or the 100-year floodplain.
- 3) Do not use the excavated material as backfill if it contains waste metal products, unsightly debris, toxic material, or any other deleterious substance. If additional backfill is required, use clean material free of waste metal products, unsightly debris, toxic material, or any other deleterious substance.
- 4) Place heavy equipment on mats or suitably operate the equipment to prevent damage to nontidal wetlands, nontidal wetland buffers, waterways, or the 100-year floodplain.
- 5) Repair and maintain any serviceable structure or fill so there is no permanent loss of nontidal wetlands, nontidal wetland buffers, or waterways, or permanent modification of the 100-year floodplain in excess of that lost under the originally authorized structure or fill.
- 6) Rectify any nontidal wetlands, wetland buffers, waterways, or 100-year floodplain temporarily impacted by any construction.
- 7) All stabilization in the nontidal wetland and nontidal wetland buffer shall consist of the following species: Annual Ryegrass (*Lolium multiflorum*), Millet (*Setaria italica*), Barley (*Hordeum sp.*), Oats (*Avena sp.*), and/or Rye (*Solida sativum*). These species will allow for the stabilization of the site while also allowing for the voluntary revegetation of natural wetland species. Other non-persistent vegetation may be acceptable, but must be approved by the Nontidal Wetlands and Waterways Division, Kentucky 31. SHALL NOT be utilized in wetland or buffer areas. The area should be seeded and mulched to reduce erosion after construction activities have been completed.
- 8) After installation has been completed, make post-construction grades and elevations the same as the original grades and elevations in temporarily impacted areas.
- 9) To protect aquatic species, in-stream work is prohibited as determined by the classification of the stream.
  - Use-1 waters: In-stream work shall not be conducted during the period from March 1 through June 15, inclusive, during any year.
- 10) Stormwater runoff from impervious surfaces shall be controlled to prevent the washing of debris into the waterway.
- 11) Diversals shall be constructed and any rip rap placed so as not to obstruct the movement of aquatic species, unless the purpose of the activity is to impound water.



**SHEET 15**

**SHEET 14**

**ENGINEER'S CERTIFICATE**

"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."

**DEVELOPER'S/BUILDER'S CERTIFICATE**

"We certify that all development and/or construction will be done according to this plan, and that any responsible personnel involved in the construction project will have a Certificate of Attendance at a Maryland Department of the Environment Approved Training Program for the Control of Sediment and Erosion before beginning the project. I also authorize periodic on-site inspection by the HSCD."

APPROVED: FOR PRIVATE WATER & PRIVATE SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING

APPROVED: NATURAL RESOURCES CONSERVATION SERVICE

These plans have been reviewed for the Howard Soil Conservation District and meet the technical requirements.

This Development Plan is approved for Soil Erosion and Sediment Control by the Howard Soil Conservation District.

**THIS PLAN IS FOR SEDIMENT CONTROL ONLY!**



Signature of Engineer: *CLG* Date: 2-15-02

Signature of Developer/Builder: *Wm B* Date: 02-14-02

**GLW GUTSCHICK LITTLE & WEBER, P.A.**  
 CIVIL ENGINEERS, LAND SURVEYORS, LAND PLANNERS, LANDSCAPE ARCHITECTS  
 3909 NATIONAL DRIVE - SUITE 250 - BURTNSVILLE OFFICE PARK  
 BURTNSVILLE, MARYLAND 20866  
 TEL: 301-421-4024 BAL: 410-880-1820 DC/VA: 301-989-2524 FAX: 301-421-4186

DATE	REVISION	BY	APPR.
2-28-02	Added entrance widening & silt fence	FGC	

OWNER	ARCHITECT
HOWARD COUNTY PUBLIC SCHOOL SYSTEM 10910 ROUTE 108 ELLCITY CITY, MD 21043 ATTN: THOMAS CLARK TEL: 410-313-6704	THOMAS CLARK ASSOCIATES ARCHITECTS 2661 RIVA ROAD, SUITE 120 ANNAPOLIS, MD 21401 ATTN: THOMAS CLARK TEL: 301-261-8700

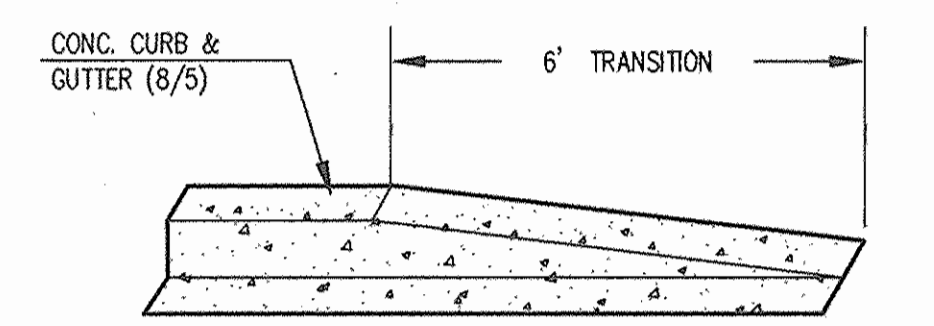
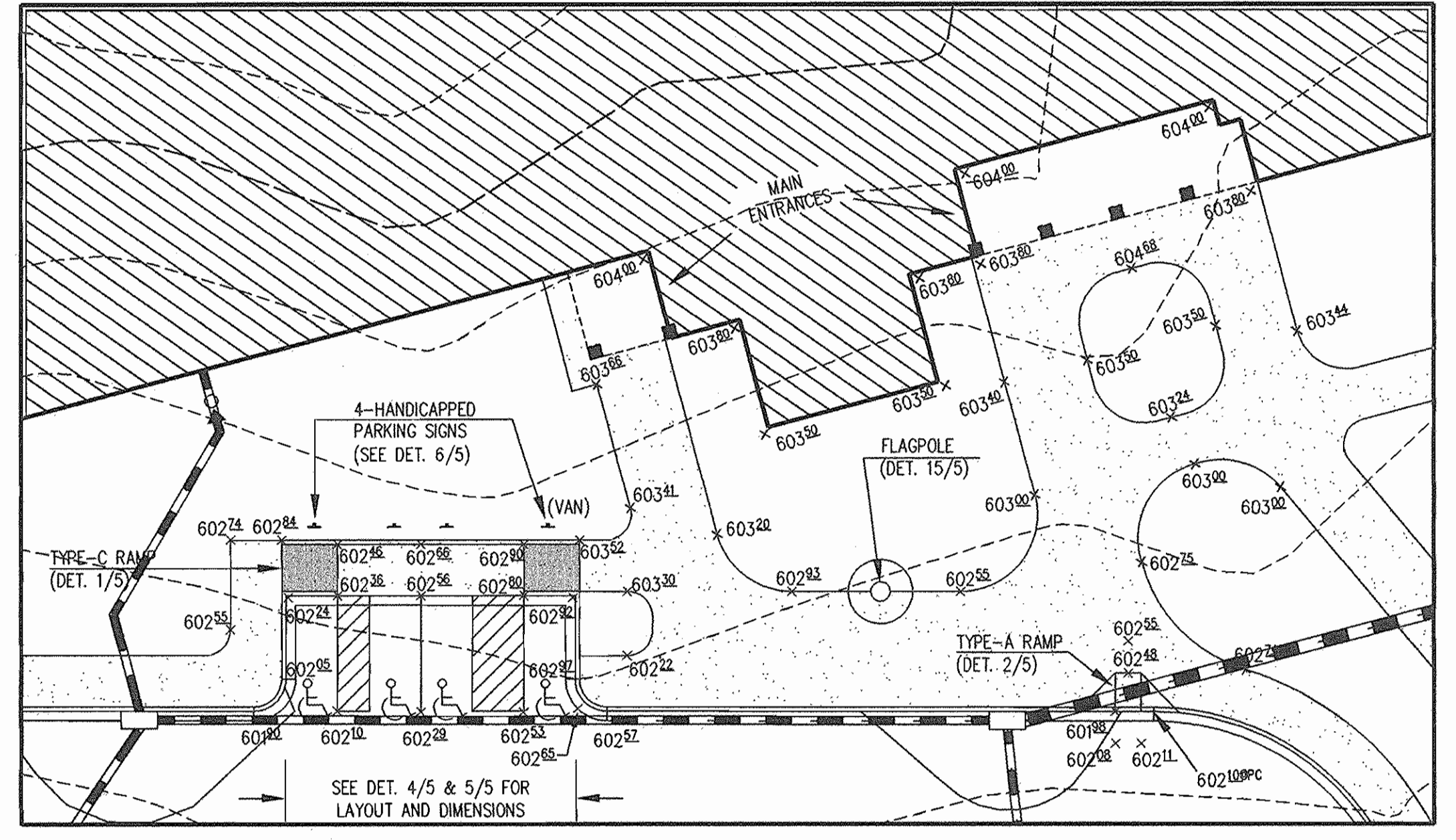
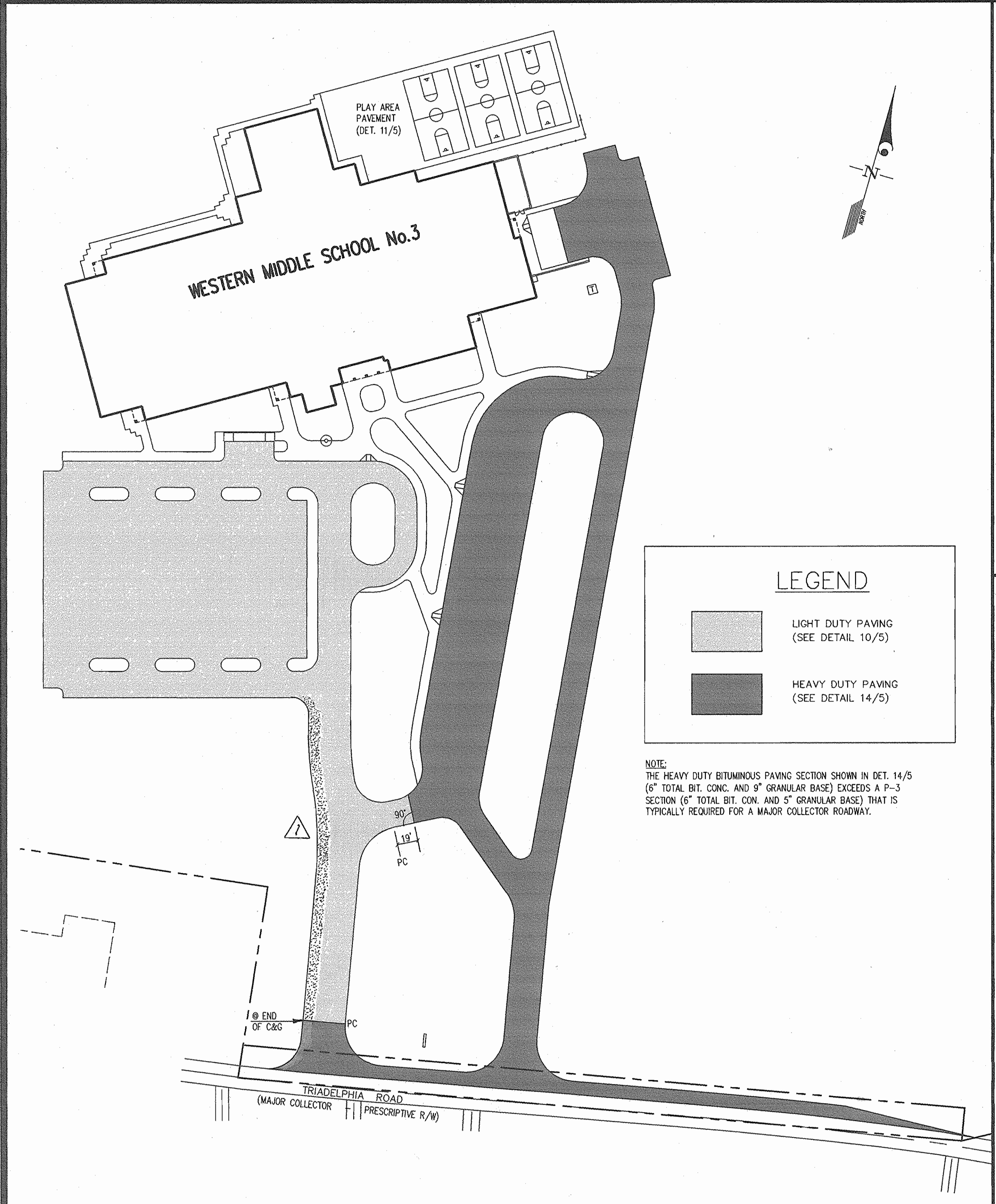
**SEDIMENT CONTROL OVERVIEW**

**WESTERN MIDDLE SCHOOL No. 3**  
**HOWARD COUNTY PUBLIC SCHOOL SYSTEM**  
 L. 3813 F.173

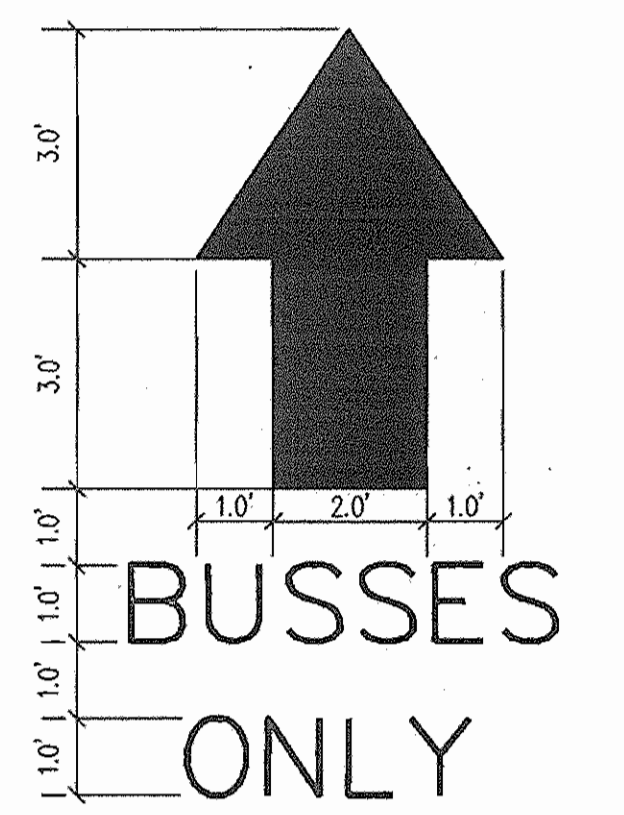
WEST FRIENDSHIP ELECTION DISTRICT No. 3

HOWARD COUNTY, MARYLAND

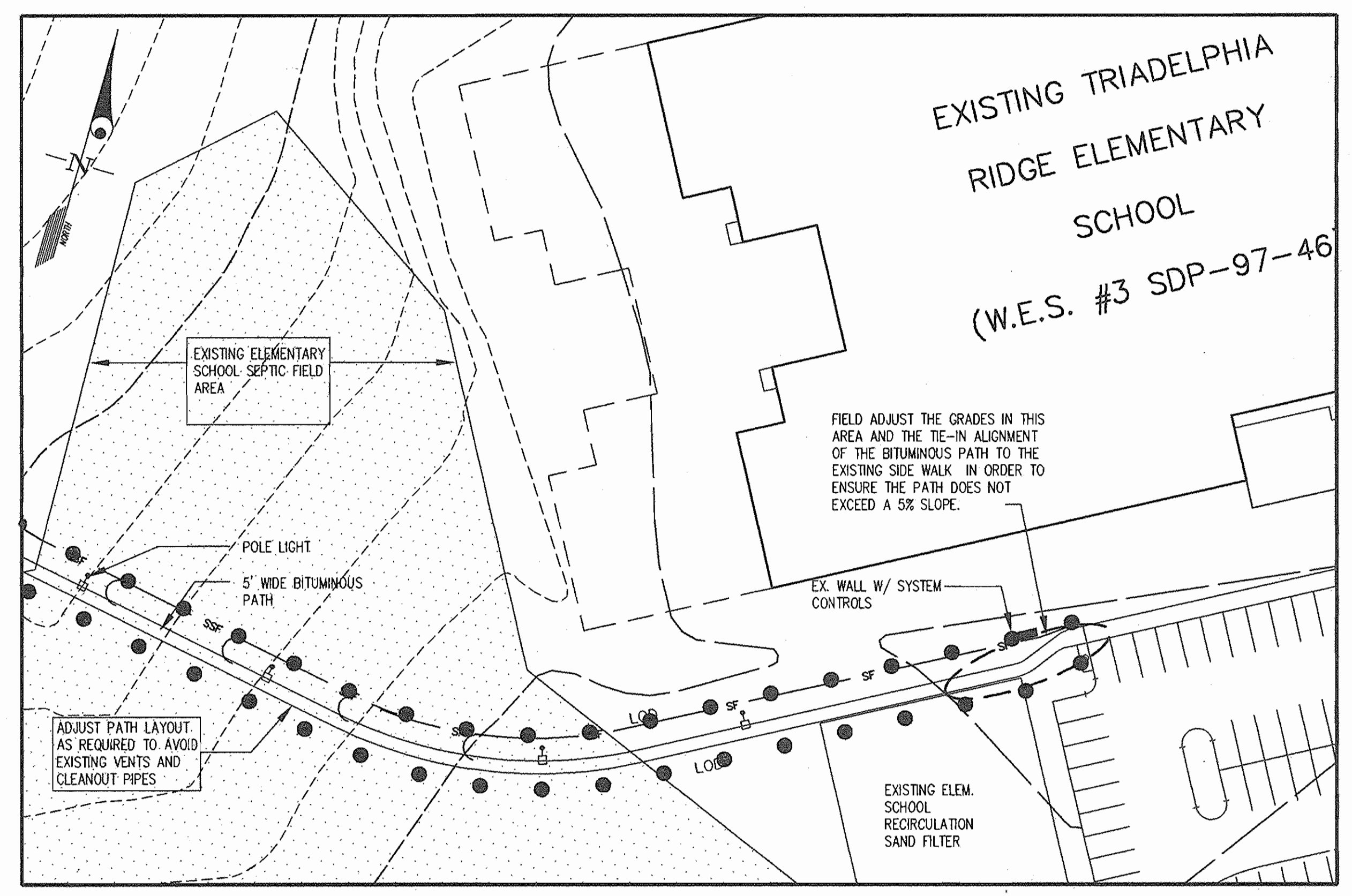
SCALE	ZONING	G. L. W. FILE No.
1"=100'	RR-DEO	00-161
DATE	TAX MAP - GRID	SHEET
12/FEB/02	22 8	13 of 27



1/4 NOSE DOWN CURB DETAIL  
NTS



1/4 "BUSSES ONLY" DIRECTIONAL MARKING  
NTS



**ACCESSIBLE BITUMINOUS PATH TO THE EXISTING ELEMENTARY SCHOOL**

1" = 40'

- NOTES:
- CONTRACTOR MUST HAND DIG TEST PITS WELL ADVANCE OF CONSTRUCTION TO VERIFY THAT ALL WRING AND LIGHT POLE BASES ARE OUTSIDE THE AREA OF SEPTIC TRENCHES AND SEPTIC UTILITIES. DO NOT DISTURB ANY EXISTING SEPTIC TRENCHES OR SEPTIC UTILITIES. CONTACT THE CONSTRUCTION MANAGER IF RELOCATION OF THE POLE LIGHTS/WIRING IS NECESSARY.
  - STRIP AND REMOVE ENOUGH OF THE EXISTING SOD TO INSTALL THE BITUMINOUS PATH WITHIN THE SEPTIC FIELD. AVOID ANY GRADING WITHIN THE SEPTIC FIELD.

**DEVELOPER'S/BUILDER'S CERTIFICATE**

"I/We certify that all development and/or construction will be done according to this plan, and that any responsible personnel involved in the construction project will have a Certificate of Attendance at a Maryland Department of the Environment Approved Training Program for the Control of Sediment and Erosion before beginning the project. I also authorize periodic on-site inspection by the HSCD."

*Wm Pa* 02-14-02  
Signature of Developer/Builder Date

**ENGINEER'S CERTIFICATE**

"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."

*Clg* 2-15-02  
Date

These plans have been reviewed for the Howard Soil Conservation District and meet the technical requirements.

*Jim Myers / GS* 2/27/02  
Natural Resources Conservation Service Date

This Development Plan is approved for Soil Erosion and Sediment Control by the Howard Soil Conservation District.

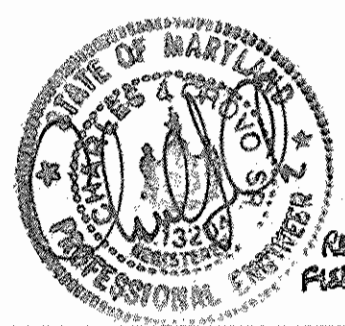
*Clg* 2/27/02  
Howard S.C.D. Date

APPROVED: FOR PRIVATE WATER & PRIVATE SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT  
*[Signature]* 2/28/02  
County Health Officer Date

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING  
*[Signature]* 2/25/02  
Director Date

*[Signature]* 3/5/02  
Chief, Division of Land Development Date

*[Signature]* 3/5/02  
Chief, Development Engineering Division Date



**PARKING LOT, DRIVEWAY AND ROADWAY PAVING DELINEATION**

1" = 60'

**GLW GUTSCHICK LITTLE & WEBER, P.A.**  
CIVIL ENGINEERS, LAND SURVEYORS, LAND PLANNERS, LANDSCAPE ARCHITECTS  
3909 NATIONAL DRIVE - SUITE 250 - BURTONSVILLE OFFICE PARK  
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TEL: 301-421-4024 BALT: 410-880-1820 DC/VA: 301-989-2524 FAX: 301-421-4188

DATE	REVISION	BY	APP'R.
2-28-07	Added entrance widening	FGC	

OWNER: HOWARD COUNTY PUBLIC SCHOOL SYSTEM  
10910 ROUTE 108  
ELICOTT CITY, MD 21043  
ATTN: CATLEEN YOUNG  
TEL: 410-313-6704

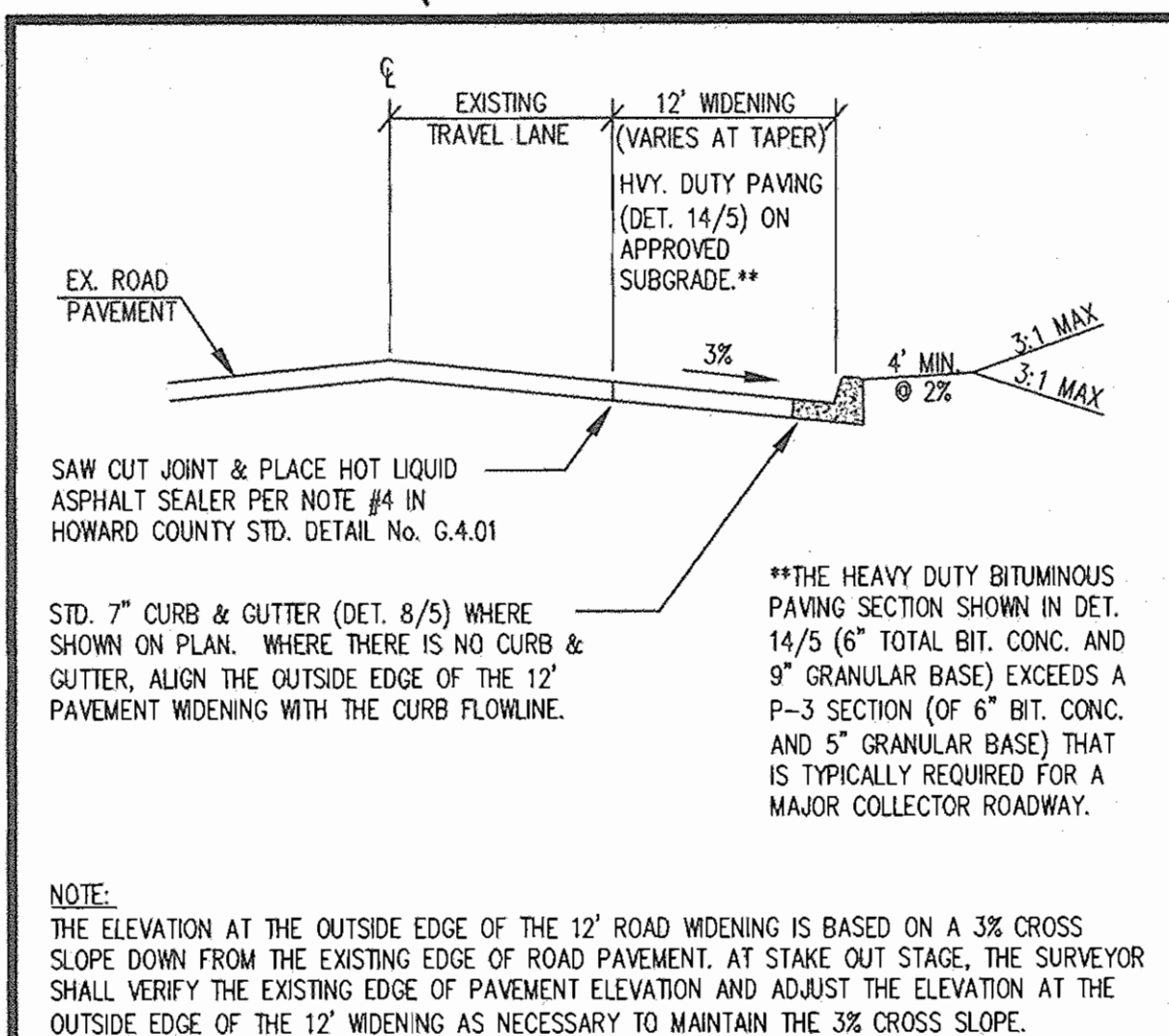
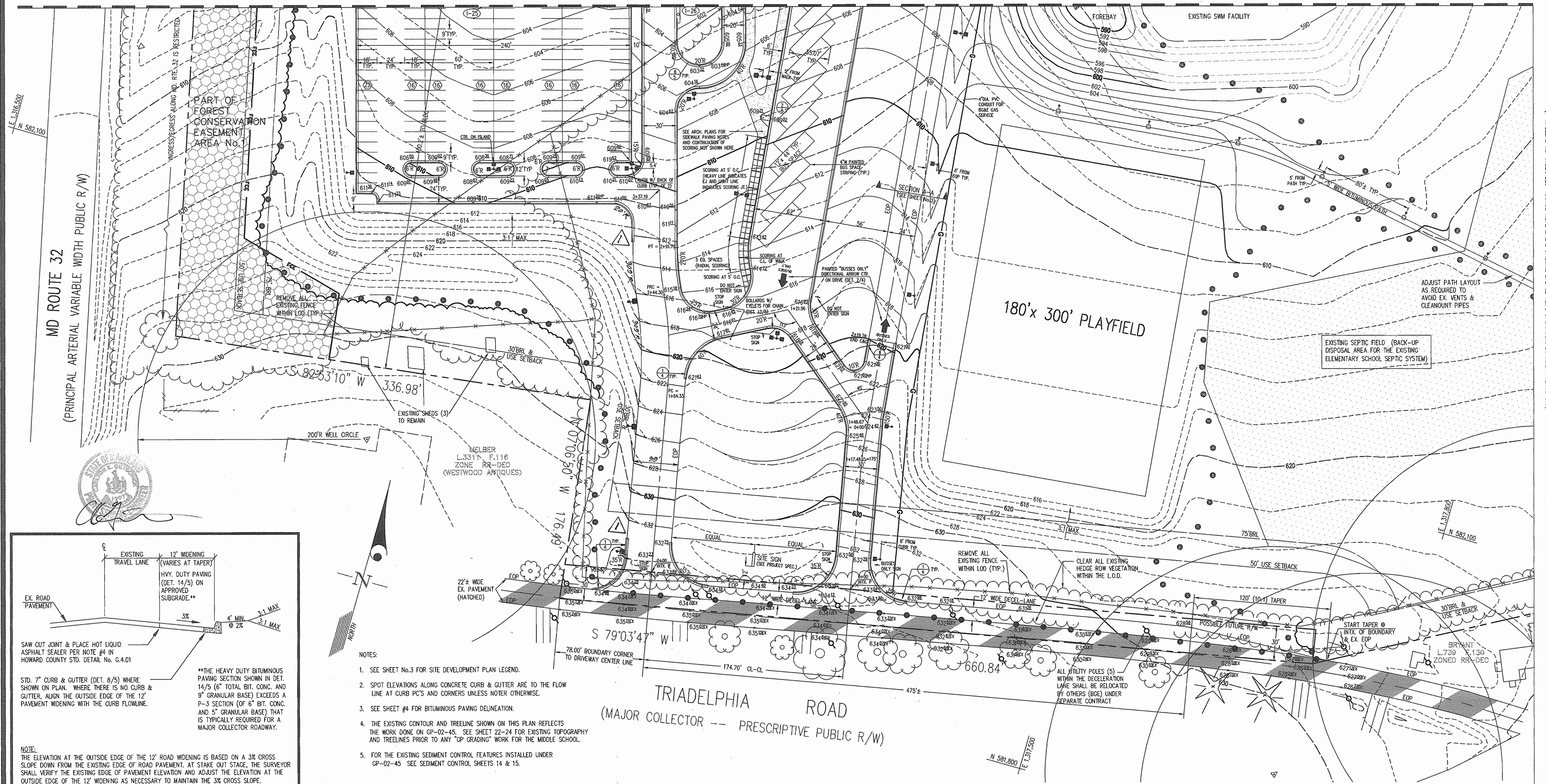
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2661 RIVA ROAD, SUITE 120  
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TEL: 301-261-8700

**SITE DETAILS**

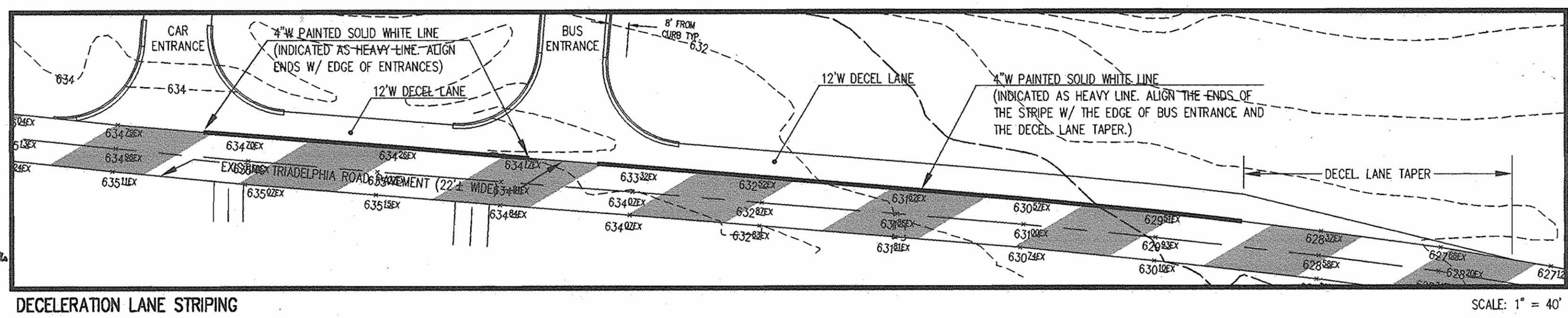
**WESTERN MIDDLE SCHOOL No. 3**  
**HOWARD COUNTY PUBLIC SCHOOL SYSTEM**  
L 3813 F173

WEST FRIENDSHIP ELECTION DISTRICT No. 3  
HOWARD COUNTY, MARYLAND

SCALE	ZONING	G. L. W. FILE No.
AS SHOWN	RR-DEO	00-161
DATE	TAX MAP - GRID	SHEET
12/FEB/02	22 8	4 of 27



- NOTES:**
- SEE SHEET No.3 FOR SITE DEVELOPMENT PLAN LEGEND.
  - SPOT ELEVATIONS ALONG CONCRETE CURB & GUTTER ARE TO THE FLOW LINE AT CURB PC'S AND CORNERS UNLESS NOTED OTHERWISE.
  - SEE SHEET #4 FOR BITUMINOUS PAVING DELINEATION.
  - THE EXISTING CONTOUR AND TRELINE SHOWN ON THIS PLAN REFLECTS THE WORK DONE ON GP-02-45. SEE SHEET 22-24 FOR EXISTING TOPOGRAPHY AND TRELINES PRIOR TO ANY "GP GRADING" WORK FOR THE MIDDLE SCHOOL.
  - FOR THE EXISTING SEDIMENT CONTROL FEATURES INSTALLED UNDER GP-02-45 SEE SEDIMENT CONTROL SHEETS 14 & 15.



**Stormwater Management Pond Summary**

Item	EX. Q(cfs)	Pond Q In-(cfs)	Pond Q Out-(cfs)	Total Q (cfs)	WSEL.	Stor. Req. (Ac.-Ft.)	Stor. Prov. (Ac.-Ft.)
Quality	N/A	N/A	N/A	N/A	90.00	0.88	1.04
2-Year	7.8	39.8	1.4	5.7	91.68	1.50	1.47
10-Year	44.1	92.6	22.2	38.0	92.75	2.44	2.56
100 Year	N/A	155.8	84.3	N/A	94.18	N/A	4.08

Note: The existing pond is a 2/10 year quantity control facility with a wet pool for quality control. It is a Class "a" Facility that shall be privately owned and maintained by the developer. The total drainage area to the pond is 27.5 ac.

APPROVED: FOR PRIVATE WATER & PRIVATE SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT  
 County Health Officer: *Robert...* 2/28/02  
 Date

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING  
 Director: *...* 3/5/02  
 Date  
 Chief, Division of Land Development: *...* 3/5/02  
 Date  
 Chief, Development Engineering Division: *...* 3/5/02  
 Date

**GLW GUTSCHICK LITTLE & WEBER, P.A.**  
 CIVIL ENGINEERS, LAND SURVEYORS, LAND PLANNERS, LANDSCAPE ARCHITECTS  
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DATE	REVISION	BY	APP'R.
02/28/02	Added entrance widening	...	...

OWNER: HOWARD COUNTY PUBLIC SCHOOL SYSTEM  
 10910 ROUTE 108  
 ELLICOTT CITY, MD 21043  
 ATTN: CATHEEN YOUNG  
 TEL: 410-313-6704

ARCHITECT: THOMAS CLARK ASSOCIATES ARCHITECTS  
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**SITE DEVELOPMENT PLAN**

**WESTERN MIDDLE SCHOOL No. 3**  
**HOWARD COUNTY PUBLIC SCHOOL SYSTEM**  
 L. 3813 F173

SCALE: 1" = 40'  
 ZONING: RR-DEO  
 DATE: 12/FEB/02  
 TAX MAP - GRID: 22 8  
 SHEET: 2 of 27

SCALE: 1" = 40'  
 ZONING: RR-DEO  
 DATE: 12/FEB/02  
 TAX MAP - GRID: 22 8  
 SHEET: 2 of 27

(FOR CONTINUATION OF BITUMINOUS PATH TO THE EXISTING ELEMENTARY SCHOOL. SEE DETAIL ON SHEET No.4)

BID & CONSTRUCTION  
 19 SEPTEMBER 01

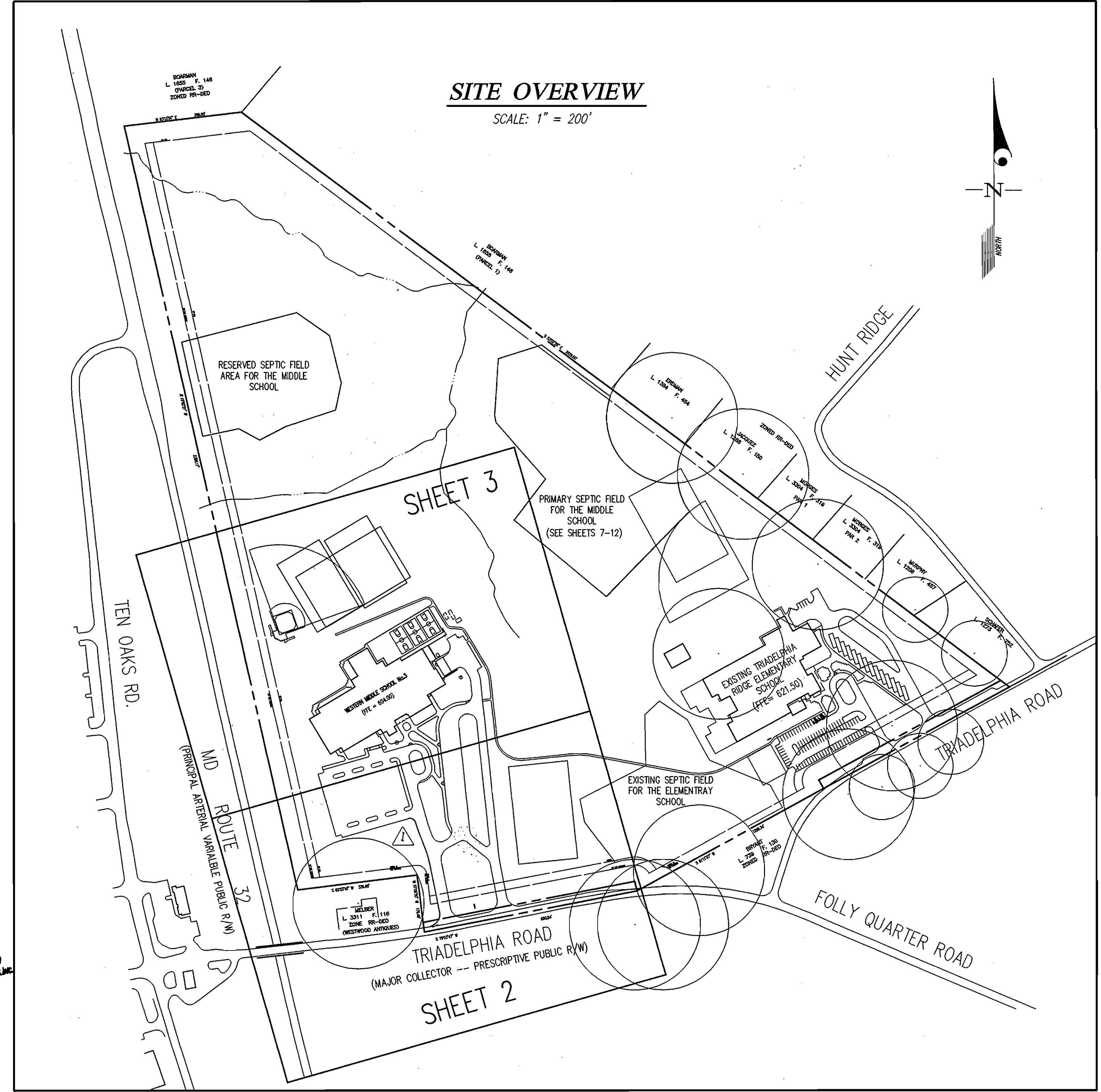
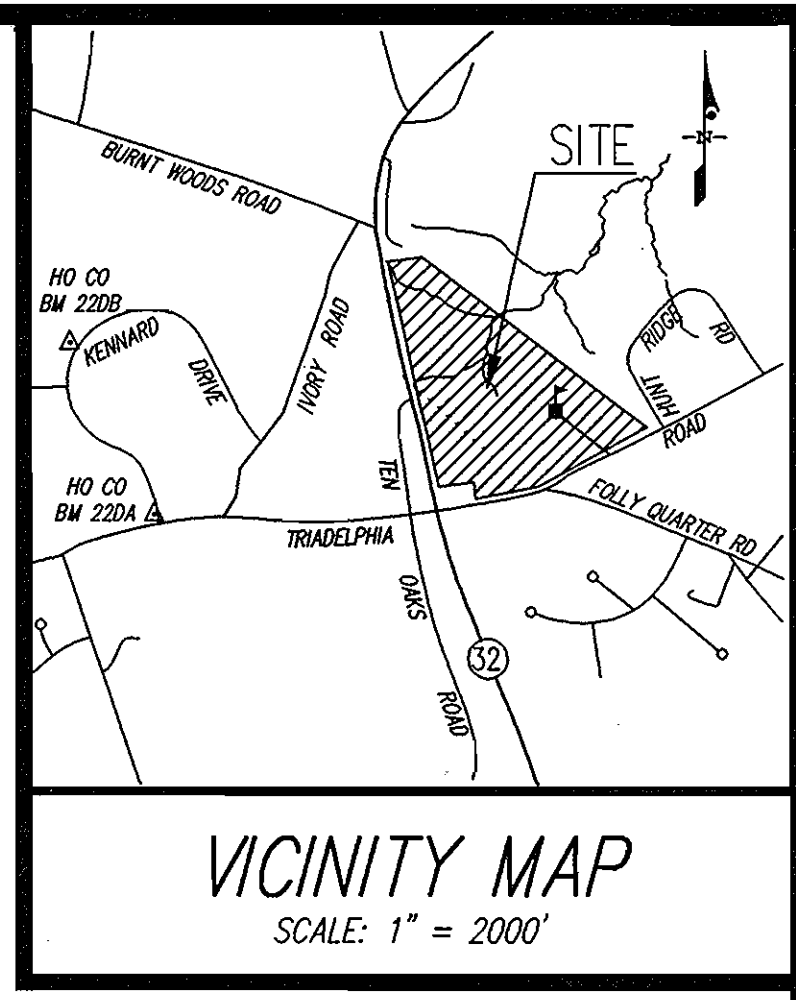
**GENERAL NOTES**

- All construction shall be in 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) 313-1880 at least five (5) working days prior to the start of work.
- The contractor shall notify "Miss Utility" at 1-800-257-7777 at least 48-hours prior to any excavation work.
- Project Background:  
 Location: Tax Map 22, on Triadelphia Road east of Md. Rte. 32  
 Zoning: RR-DEO  
 Election District: 3rd Election District  
 Section/Area: N/A  
 Site Area: 78.665± AC (Gross)  
 Approved Name and DPZ Ref. File Nos.:  
 -Previously approved SDP-97-46, WP-02-21 and GP-02-45.  
 -WP-02-55 (approved on 1/15/02 to waive Section 16.156 (j) and (k) and extended the processing deadline for SDP-01-122 from 12/22/01 until 6/22/02).  
 -WP-02-77 waive to SDP for entrance drive.
- 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 the 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 radially between items unless otherwise noted.
- Existing topography and features were surveyed by Schmid, Pfetz & McDonald, Inc. February 1996, SDP-97-46 and from GP-02-45.
- Coordinates are based on NAD '83 Maryland Coordinate System as projected by Howard County Geodetic Control Station Numbers 220A & 220B.
- The middle school shall be served by private well and septic. Well(s) must be drilled and approved by the Health Department (prior to bidding and issuance of bldg. permit).
- Stormwater Management is provided by an existing on-site private retention facility that was constructed under SDP-97-46. It is to be privately maintained.
- All on-site storm drains proposed under this SDP are private.
- The existing utilities shown herein were derived from available public records. The contractor must dig test pits, by hand, at all utility crossings and connection points to verify exact location.
- All proposed ramps shall be in accordance with current A.D.A. Standards. Maximum sidewalk cross slope shall be (2%) to percent. Provide a (5'x5') five foot by five foot level (2% max.) landing area at the top and bottom of all ramps and building entrances and exits.
- All driveways and parking to be owned and maintained by Howard County Public School System.
- Any damage to County & State owned right-of-way to be corrected at the contractor's expense.
- Trench bedding for storm drainage structures shall be in accordance with Howard County Standard G2.01. 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.
- All curb filelets are 5' radius unless noted otherwise. Spot elevations along curb line are at the flow line, unless noted otherwise.
- For details of building profile, parking, paving sections, handicap ramps, and curb/gutter see Sheet Nos. 5 & 6.
- There are no known grave sites or cemeteries on this site.
- Other topics related to this site:  
 - 85th Percentile Speed report prepared by The Traffic Group dated February 28, 2001.  
 - Subsurface Exploration and Geotechnical Evaluation by E.C.S., Ltd. dated March 9, 2001.  
 - This SDP is grandfathered to the Fourth Edition of the Subdivision and Land Development Regulations.
- See SDP-97-46 for wetland and forest stand delineation.
- All outside lighting shall comply with Zoning Regulation Section 134 which requires lights to be installed to direct/reflect light downwards and upwards on site away from all adjoining public streets and residential areas. Site lighting fixtures shall be furnished with up four 400 watt high pressure sodium lamps on 30 ft. dark bronze aluminum poles as manufactured by Hi-Tek, Emco, Hubbell or Kim. Single 400 and 250 watt high pressure sodium lamps on 20 ft. poles shall be provided at walkways to the adjacent elementary school. For additional information, see electrical drawing sheet E-1 to be submitted with Building Permit Submission package.
- For the disturbance to the wetlands and the associated 25' buffer to construct the sanitary line shown on these SDP drawings see MDC tracking number: HAD Public School - Western MS#5 - Utility Line, 200163705 and Army Corps application No. 200163705.
- The Forest Conservation Easements on this plan have been established to fulfill the requirements of Section 16.1200 of the Howard County Code, Forest Conservation Act. No clearing, grading or construction is permitted within the Forest Conservation Easements; however, the initial grading to develop the Western Middle School No.3 per this SDP and forest management practices as defined in the Deed of Forest Conservation Easement are allowed. See Plot of Forest Conservation Easement for this site filed under this SDP number and recorded as Plat No. 15258 on 2-25-02.  
 The Forest Conservation obligation for the development of the Middle School under this SDP and for the previous minor clearing under a "Declaration of intent" dated Jan. 17, 1997 to develop the elementary school under SDP-97-46 is fulfilled by recording a total of 23.17 acres of forest conservation easement area which comprises of:  
 19.82 acres of forest retention outside the 100-yr flood plain.  
 2.28 acres of forest retention inside the 100-yr flood plain.  
 0.54 acres of natural regeneration area outpocket to the woodland.  
 No reforestation planning is required since clearing is above the break even point. See sheets 22-24 and 26 for additional information.
- No clearing, grading or construction is permitted within the wetlands, streams or their required buffers, except for the sanitary sewer line which was determined to be an essential utility line disturbance in accordance with Section 16.116(c) of the Subdivision and Land Development Regulations.

# WESTERN MIDDLE SCHOOL No.3

## THIRD ELECTION DISTRICT

### HOWARD COUNTY, MARYLAND



**SHEET INDEX**

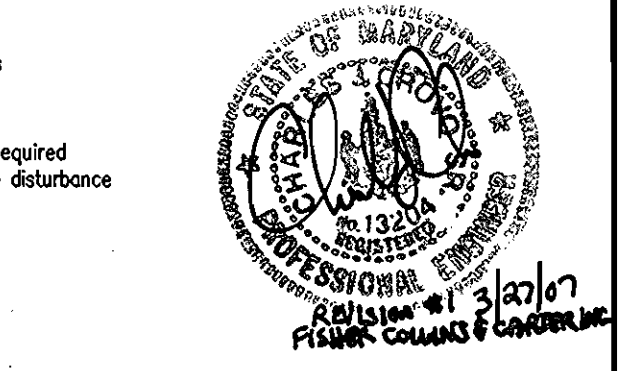
1	COVER SHEET
2	SITE DEVELOPMENT PLAN
3	SITE DEVELOPMENT PLAN
4	SITE DETAILS
5	SITE DETAILS
6	SITE DETAILS
7	SEPTIC SYSTEM SITE PLAN (WRA's C-1)
8	SEPTIC SYSTEM PROFILES (WRA's C-2)
9	SEPTIC SYSTEM DETAILS (WRA's C-3)
10	SEPTIC SYSTEM DETAILS (WRA's C-4)
11	SEPTIC SYSTEM DETAILS (WRA's C-5)
12	SEPTIC SYSTEM SEDIMENT CONTROL PLAN (WRA's C-6)
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14	SEDIMENT & EROSION CONTROL PLAN
15	SEDIMENT & EROSION CONTROL PLAN
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17	SEDIMENT CONTROL NOTES & DETAILS
18	STORM DRAIN PROFILES & SCHEDULES
19	STORM DRAIN/UTILITY PROFILES, SCHEDULES & DETAILS
20	DRAINAGE AREA MAP (STORM DRAIN)
21	DRAINAGE AREA MAP (SWM)
22	LANDSCAPE EDGE ANALYSIS & FOREST CONSERVATION OVERVIEW
23	FOREST CONSERVATION and LANDSCAPE PLANTING PLAN
24	FOREST CONSERVATION and LANDSCAPE PLANTING PLAN
25	PLANTING NOTES, SCHEDULES AND DETAILS
26	FOREST CONSERVATION NOTES, SCHEDULES AND DETAILS
27	STORMWATER MANAGEMENT FOREBAY & SEDIMENT BASIN DETAILS

**SITE ANALYSIS & DATA**

- General Site Data
  - Present Zoning: RR-DEO
  - Existing & Proposed use of Site: Institutional (Public Schools)
  - Private Water & Septic System to be utilize
- Area Tabulation
  - Total Project/Site area: 78.665± acres (gross)
  - Net Area of Site: 75.559± acres (0.186 ac. is natural steep slope per SDP-97-46 and 2.92 ac. of 100-year flood plain)
  - Area of this plan submission: 78.665± acres (Forest Conservation examined for entire site)
  - Area of disturbance by this SDP: 23.2± acres (including septic trenching & septic utilities)
  - Building coverage of site:
    - 1.54± ac. for the existing Elm School
    - 2.19± ac. for Western Middle School No.3
    - 3.73± ac. total building coverage (4.74% of gross site area)
  - Area of paved (impervious) surfaces (parking lot, play courts, sidewalk, etc.)
    - 2.11 ac. for the existing Elm School
    - 3.74 ac. for the Western Middle School No.3
    - 5.85 ac. total
- Open Space Data
  - Open Space required on Site: N/A
  - Open Space proposed/provided: N/A
- Parking Space Data
  - Number of parking spaces required by Zoning Regulations: N/A
  - Total number of car parking spaces provided for the Middle School as required by HCPSS:
    - 5 handicapped accessible spaces
    - 145 standard 9'x18' parking spaces
    - 150 total
  - Total number of school bus parking spaces provided for the Middle School as required by HCPSS:
    - 14 spaces (12'x44')

APPROVED: FOR PRIVATE WATER & PRIVATE SEWERAGE SYSTEMS,  
 HOWARD COUNTY HEALTH DEPARTMENT  
 County Health Officer *[Signature]* 2/18/02 Date

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING  
 Director *[Signature]* 2/5/02 Date  
 Chief, Division of Land Development *[Signature]* 3/5/02 Date  
 Chief, Development Engineering Division *[Signature]* 3/5/02 Date



**GLW GUTSCHICK LITTLE & WEBER, P.A.**  
 CIVIL ENGINEERS, LAND SURVEYORS, LAND PLANNERS, LANDSCAPE ARCHITECTS  
 3609 NATIONAL DRIVE - SUITE 250 - BURTONSVILLE OFFICE PARK  
 BURTONSVILLE, MARYLAND 20866  
 TEL: 301-421-4024 BALT: 410-880-1820 DC/VA: 301-989-2524 FAX: 301-421-4186

DATE	REVISION	BY	APP'R.
2-27-02	Added entrance widening	F.C.C.	

OWNER:  
 HOWARD COUNTY PUBLIC SCHOOL SYSTEM  
 10910 ROUTE 108  
 ELLEOTT CITY, MD 21043  
 ATTN: CATHEEN YOUNG  
 TEL: 410-313-6704

ARCHITECT:  
 THOMAS CLARK ASSOCIATES  
 ARCHITECTS  
 2661 RIVA ROAD, SUITE 120  
 ANNAPOLIS, MD 21401  
 ATTN: THOMAS CLARK  
 TEL: 301-261-8700

**COVER SHEET**

**WESTERN MIDDLE SCHOOL No.3**  
**HOWARD COUNTY PUBLIC SCHOOL SYSTEM**  
 L. 3813 F.173

WEST FRIENDSHIP ELECTION DISTRICT No. 3  
 HOWARD COUNTY, MARYLAND

ADDRESS CHART		PROJECT NAME		PLAT		ZONE		TAX MAP		BLOCK		ELEC. DIST.		CENSUS TRACT	
WATER CODE:	SEWER CODE:	BUILDING:	STREET ADDRESS:	PROJECT NAME:	SECTION/AREA:	PARCEL:	PLAT:	ZONE:	TAX MAP:	BLOCK:	ELEC. DIST.:	CENSUS TRACT:	SCALE:	ZONING:	G. L. W. FILE No.:
PRIVATE-WELL	PRIVATE-SEPTIC	WMS#3	13300 TRIADELPHIA ROAD	HCPSS, WESTERN MIDDLE SCHOOL No.3	N/A	6	L.3813 F.173	RR	22	8	3	6020	AS SHOWN	RR-DEO	00-161
													DATE:	TAX MAP - GRID:	SHEET:
													12/FEB/02	22 8	1 of 27

BD & CONSTRUCTION  
 19 SEPTEMBER 01