

GENERAL NOTES

1. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST STANDARDS AND SPECIFICATIONS OF HOWARD COUNTY PLUS WMA STANDARDS AND SPECIFICATIONS IF APPLICABLE.
2. ANY DAMAGE TO COUNTY OWNED RIGHTS-OF-WAY TO BE CORRECTED AT DEVELOPER'S/BUILDER'S EXPENSE.
3. TRAFFIC CONTROL DEVICES, MARKINGS AND SIGNING SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE "MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES" (MUTCD). ALL STREET AND REGULATORY SIGNS SHALL BE IN PLACE PRIOR TO PLACEMENT OF ANY ASPHALT.
4. EXISTING TOPOGRAPHY AND FEATURES WERE SURVEYED BY SCHMID, PFETZ & McDONALD, INC. FEBRUARY 1996.
5. ALL PIPE ELEVATIONS SHOWN ARE INVERT ELEVATIONS.
6. ALL DRIVEWAYS AND PARKING TO BE OWNED AND MAINTAINED BY THE OWNER.
7. COORDINATES BASED ON NAD '83 MARYLAND COORDINATE SYSTEM AS PROJECTED BY HOWARD COUNTY GEODETIC CONTROL STATIONS NO. 220A AND NO. 220B.
8. CLASS "C" TRENCH BEDDING SHALL BE USED UNDER ALL STORM DRAINS UNLESS OTHERWISE SHOWN.
9. THE CONTRACTOR MUST DETERMINE THE EXACT LOCATION BY DIGGING TEST PITS BY HAND AT ALL UTILITY CROSSINGS WELL IN ADVANCE OF CONSTRUCTION.
10. THE CONTRACTOR/DEVELOPER SHALL CONTACT THE CONSTRUCTION INSPECTION DIVISION AT (410) 313-1800 AT LEAST (5) WORKING DAYS PRIOR TO THE START OF WORK.
11. SITE TO BE SERVED BY WELL & SEPTIC SYSTEMS. (FOR ADDITIONAL INFORMATION SEE NOTE NO. 22)
12. STORMWATER MANAGEMENT AND WATER QUALITY FOR THIS SITE, ARE TO BE PROVIDED BY AN ON-SITE PRIVATE RETENTION FACILITY.
13. FOR DETAILS OF BUILDING FOOTPRINT/PROFILE, PARKING, ROAD SECTION, HANDICAP, CURBS/GUTTER AND DUMPSTER AREA, SEE SHEETS C-15 & C-16.
14. ALL PLAN DIMENSIONS ARE TO FACE OF CURB OR FACE OF BUILDING, UNLESS OTHERWISE NOTED.
15. ALL STORM DRAINS PROPOSED UNDER THIS SDP ARE PRIVATE.
16. THE CONTRACTOR SHALL NOTIFY THE FOLLOWING UTILITIES OR AGENCIES AT LEAST (5) DAYS BEFORE STARTING WORK SHOWN ON THESE PLANS:
 MISS UTILITY 1-800-257-7777
 C & P TELEPHONE COMPANY 375-9976
 HOWARD COUNTY BUREAU OF UTILITIES 331-6000
 A T & T CABLE LOCATION DIVISION 363-3533
 BALTIMORE GAS & ELECTRIC COMPANY 665-0123
 STATE HIGHWAY ADMINISTRATION 531-5533
17. ALL CURB FILLETS ARE 5' RADIUS UNLESS NOTED OTHERWISE. SPOT ELEVATIONS AT CURB & GUTTER ARE AT THE FLOW LINE, UNLESS NOTED OTHERWISE.
18. THERE ARE NO KNOWN GRAVE SITES OR CEMETERIES ON THIS SITE.
19. ALL PROPOSED RAMPS SHALL BE IN ACCORDANCE WITH CURRENT A.D.A. STANDARDS. MAXIMUM SIDEWALK CROSS SLOPE SHALL BE (2%) TWO PERCENT. PROVIDE A (5'x5') FIVE FOOT BY FIVE FOOT LEVEL (2% Max.) LANDING AT THE TOP AND BOTTOM OF ALL RAMPS AND BUILDING ENTRANCES AND EXITS.
20. RECORDING REFERENCE: LIBR 142 FOUO 137
21. OTHER TOPICS RELATED TO THIS SITE:
 - FOREST DELINEATION AND CONSERVATION... SEE PLAN SHEETS FC-1 AND FC-2 BY GUTSCHICK, LITTLE WEBER, P.A.
 - SEPTIC SYSTEM... SEE PLAN SHEETS SI-1 & SI-2 BY MACORNE (20 RICELY AVE., ANNAPOLIS, MD. 21401) TELE (410)269-0531
 FILE NO. C1960035, MDE NO. 77-OP 3223

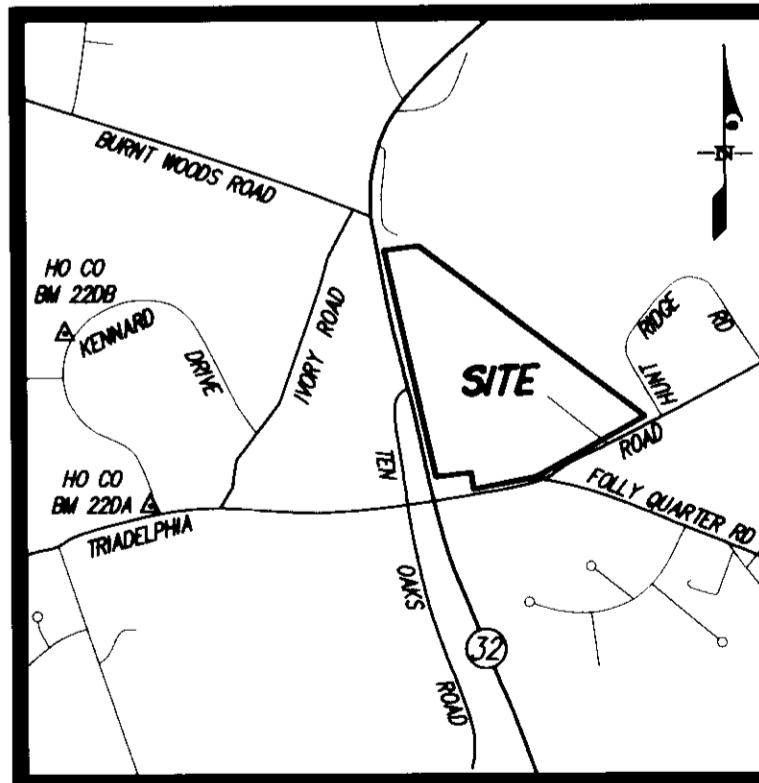
SITE ANALYSIS DATA CHART

1. General Site Data
 - a. Present Zoning: RR-DEO
 - b. Proposed Use of Site or Structures: Institutional (Public School)
 - c. Private Water and Septic System
2. Area Tabulation
 - a. Total Project Area: 78.665± acres (gross)
 - b. Net Area of Site: 78.479 acres (less 0.186 acre For Steep Slope)
 - c. Area of This Plan Submission: 78.665± acres
 - d. Limit of Disturbed Area: 18.04 acres
 - e. Building Coverage of Site: 1.6± Acres and 1.96% of Gross Area (Proposed)
 - f. Building Area: 67,052 sq. ft. GFA
3. Open Space Data
 - a. Open Space Required on Site: N/A
 - b. Open Space Proposed: N/A
4. Parking Space Data
 - a. Number of Parking Spaces Required by Zoning Regulations: NA
 - b. Total Number of Parking Spaces Provided on Site: 97 Car Spaces & 14 Bus Spaces
 - c. Number of Handicapped Parking Spaces Provided: 4 (Including 1 Handicap Van Space)

SHEET INDEX

SHEET#	DESCRIPTION
1	COVER SHEET
2	SITE DEVELOPMENT PLAN (1:40 SCALE)
3	SITE DEVELOPMENT PLAN (1:40 SCALE)
4	LANDSCAPE PLAN (1:100 SCALE)
5	LANDSCAPE PLAN (1:40 SCALE)
6	LANDSCAPE PLAN (1:40 SCALE)
7	DEMOLITION PLAN
8	SEDIMENT CONTROL PLAN
9	SEDIMENT CONTROL PLAN
10	STORMWATER MANAGEMENT & SEDIMENT CONTROL NOTES
11	SEDIMENT & EROSION CONTROL DETAILS
12	STORMWATER MANAGEMENT & STORM DRAIN DRAINAGE AREA MAP
13	STORM DRAIN PROFILES
14	STORMWATER MANAGEMENT DETAIL SHEET
15	SITE DETAILS
16	SITE DETAILS

NOTE: FOR OTHER PLANS RELATED TO THIS SITE SEE GENERAL NOTE NO. 21 ON THIS SHEET.



VICINITY MAP
SCALE: 1" = 2000'

APPROVED: FOR PRIVATE WATER & SEWERAGE SYSTEMS,
 HOWARD COUNTY HEALTH DEPARTMENT
Joseph M. Boyd 2-5-97
 County Health Officer Date

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING
David R. Butler 2/6/97
 Director Date

Richard S. Brown 2/6/97
 Chief, Division of Development Date

John J. ... 1/30/97
 Chief, Development Engineering Division Date

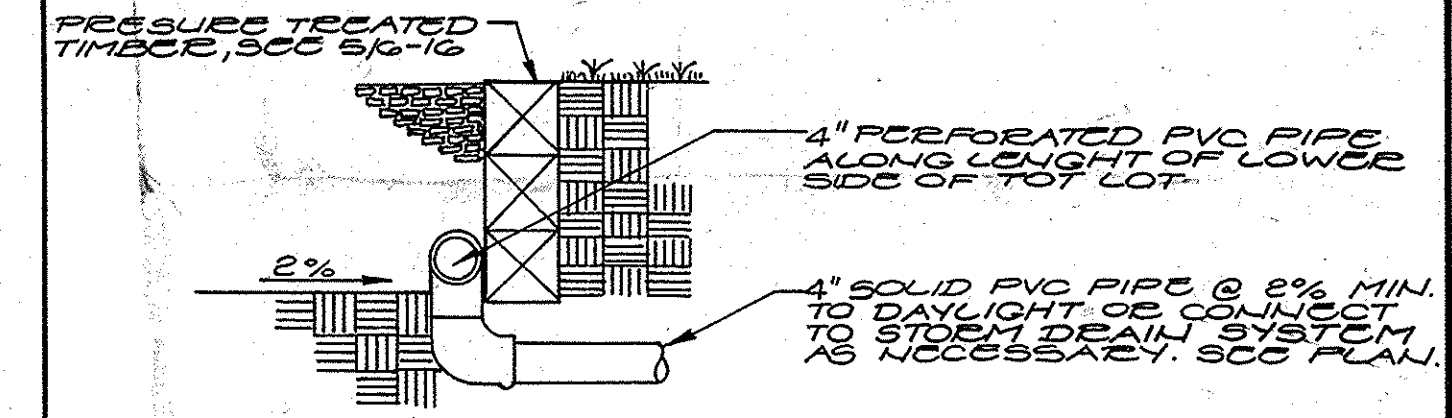
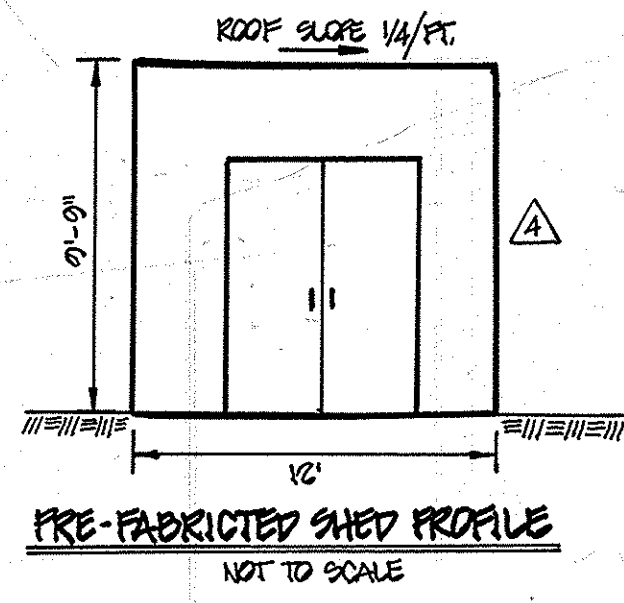
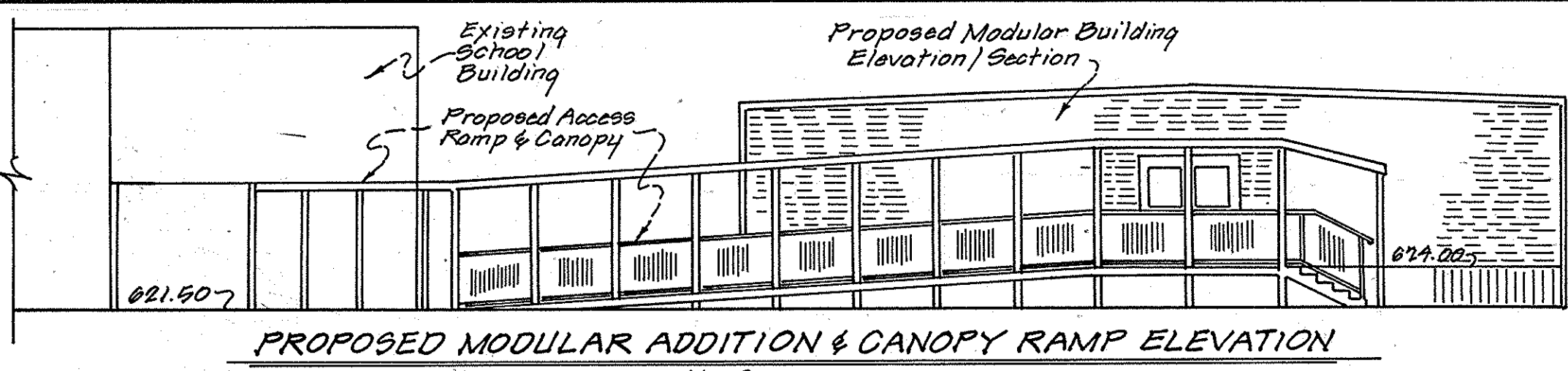
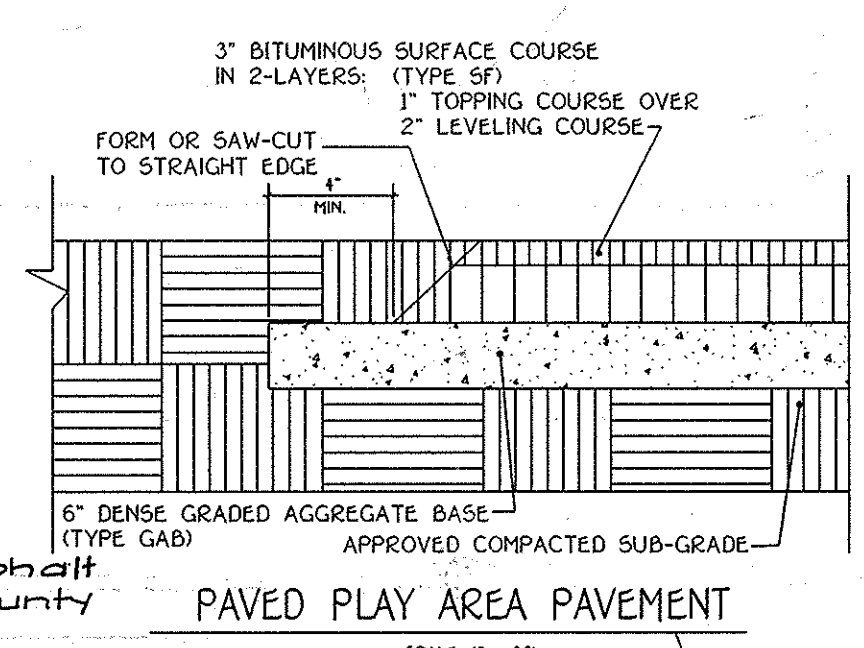
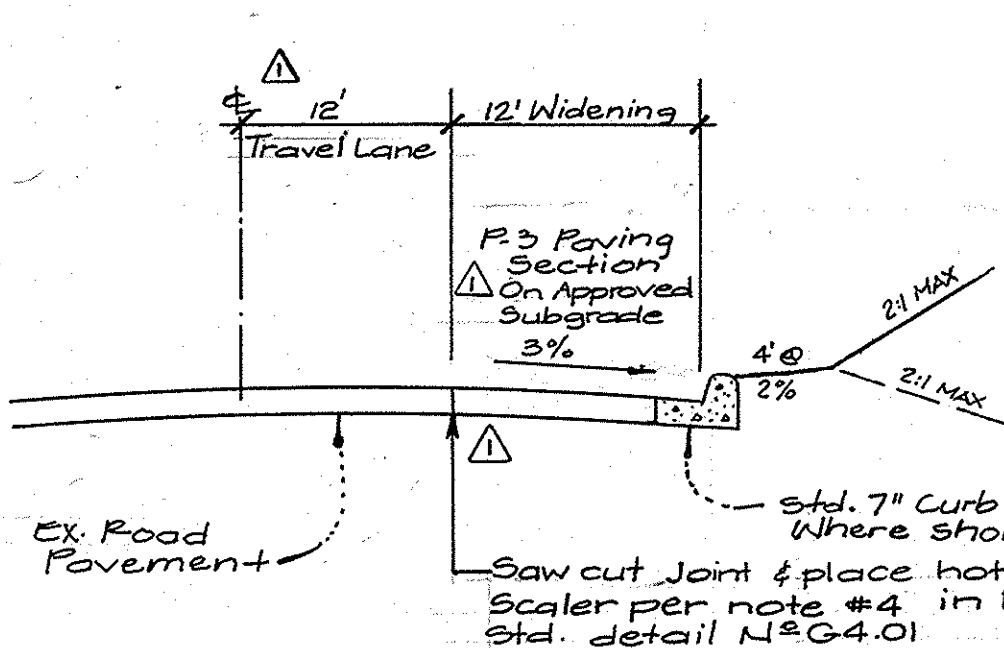
GLW GUTSCHICK LITTLE & WEBER, P.A.
 CIVIL ENGINEERS, SURVEYORS, PLANNERS, LANDSCAPE ARCHITECTS
 3909 NATIONAL DRIVE - SUITE 250 - BURTONSVILLE OFFICE PARK - BURTONSVILLE, MARYLAND 20866
 TEL: (301) 421-4024 NO. VA.: (301) 989-2524 BALT.: (410) 880-1820 FAX: (301) 421-4186 DES. DRN. S.G. CHK. DATE REVISION BY APPR.

PREPARED FOR:
 HOWARD COUNTY PUBLIC SCHOOL SYSTEM
 10910 ROUTE 108
 ELLICOTT CITY, MARYLAND 21043
 PHONE: (410) 313-6805

COVER SHEET
WESTERN ELEMENTARY SCHOOL #3
 WEST FRIENDSHIP ELECTION DISTRICT No. 3
 HOWARD COUNTY, MARYLAND

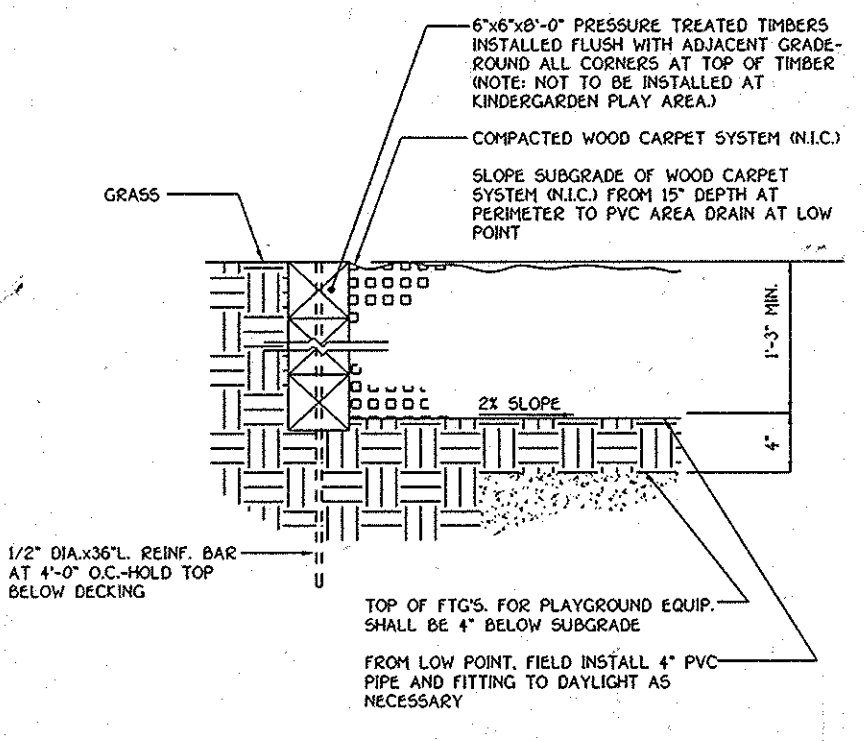
ADDRESS CHART		G. L. W. FILE No.	
PARCEL NUMBER	STREET ADDRESS	SCALE	ZONING
6	13400 TRIADELPHIA ROAD	1" = 100'	RR
SUBDIVISION NAME: HOSS: WESTERN ELEMENTARY SCHOOL No. 3		DATE	TAX MAP No.
PLAT	ZONE	TAX MAP	BLOCK
L 142 F. 137	RR	22	8
ELEC. DIST.		CENSUS TRACT	
3		6030	
SHEET		OF	
C - 1		16	

SDP 1746



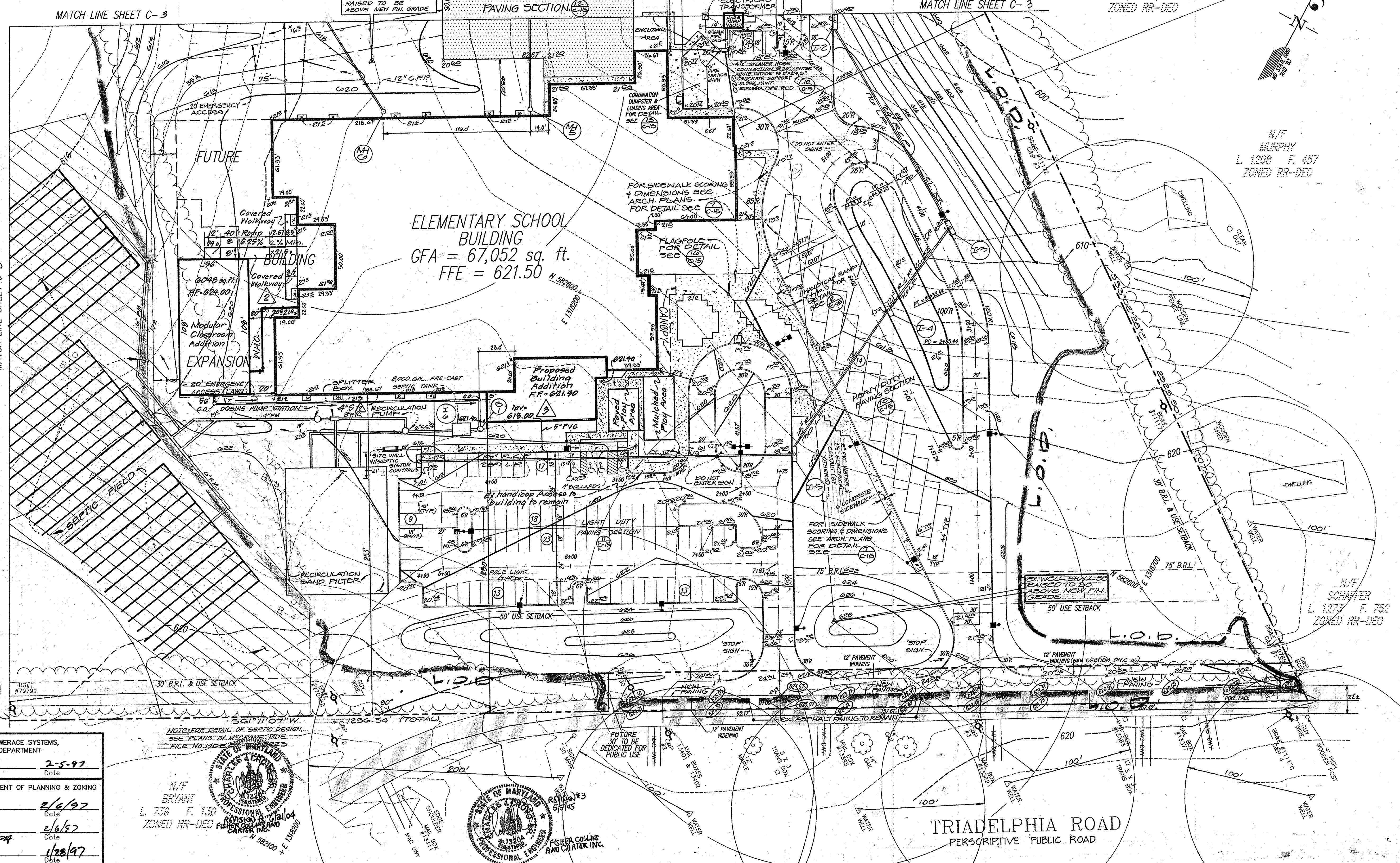
TRIADELPHIA ROAD WIDENING
Not to Scale
SEE ALSO HO. CO. STANDARD DET. NR R10.01.

Note:
Elevation @ outside edge of 12' road widening is based on 3% cross slope from existing edge of road pavement. Surveyor shall verify existing edge of pavement elevation and adjust elevation @ outside edge of 12' widening as necessary to maintain 3% cross slope at stake-out stage.



LEGEND

- TYPICAL LIGHT
- EXISTING PAVING
- EXISTING SPOT ELEVATION
- NEW SPOT ELEVATION
- EXISTING CONTOUR
- NEW GRADE
- STANDARD 7" COMB. CURB & GUTTER
- STANDARD 6" COMB. CURB & GUTTER
- REVERSE 6" COMB. CURB & GUTTER
- EXISTING TREES (SEE C-1 THRU C-3 FOR REMOVAL/NOTES: DOES NOT INCLUDE CONSTRUCTION OF SEPTIC FIELDS OR DEMOLITION)
- L.O.D. LIMIT OF DISTURBANCE
- O.B.-3 PERC LOCATION THAT PASSED
- B-11 PERC LOCATION THAT FAILED



APPROVED: FOR PRIVATE WATER & SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT
 County Health Officer: *[Signature]* Date: 2-5-97
 APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING
 Director: *[Signature]* Date: 2/6/97
 Chief, Division of Land Development: *[Signature]* Date: 2/6/97
 Chief, Development Engineering Division: *[Signature]* Date: 1/28/97

NOTE: FOR DETAIL OF SEPTIC DESIGN, SEE PLANS BY MORGAN WIDE FILE NO. MD-00-000000-000000
 N/F BRYANT L. 739 F. 130 ZONED RR-DEO
 PROFESSIONAL ENGINEER
 FISHBURN COLLINS AND CARTER INC.

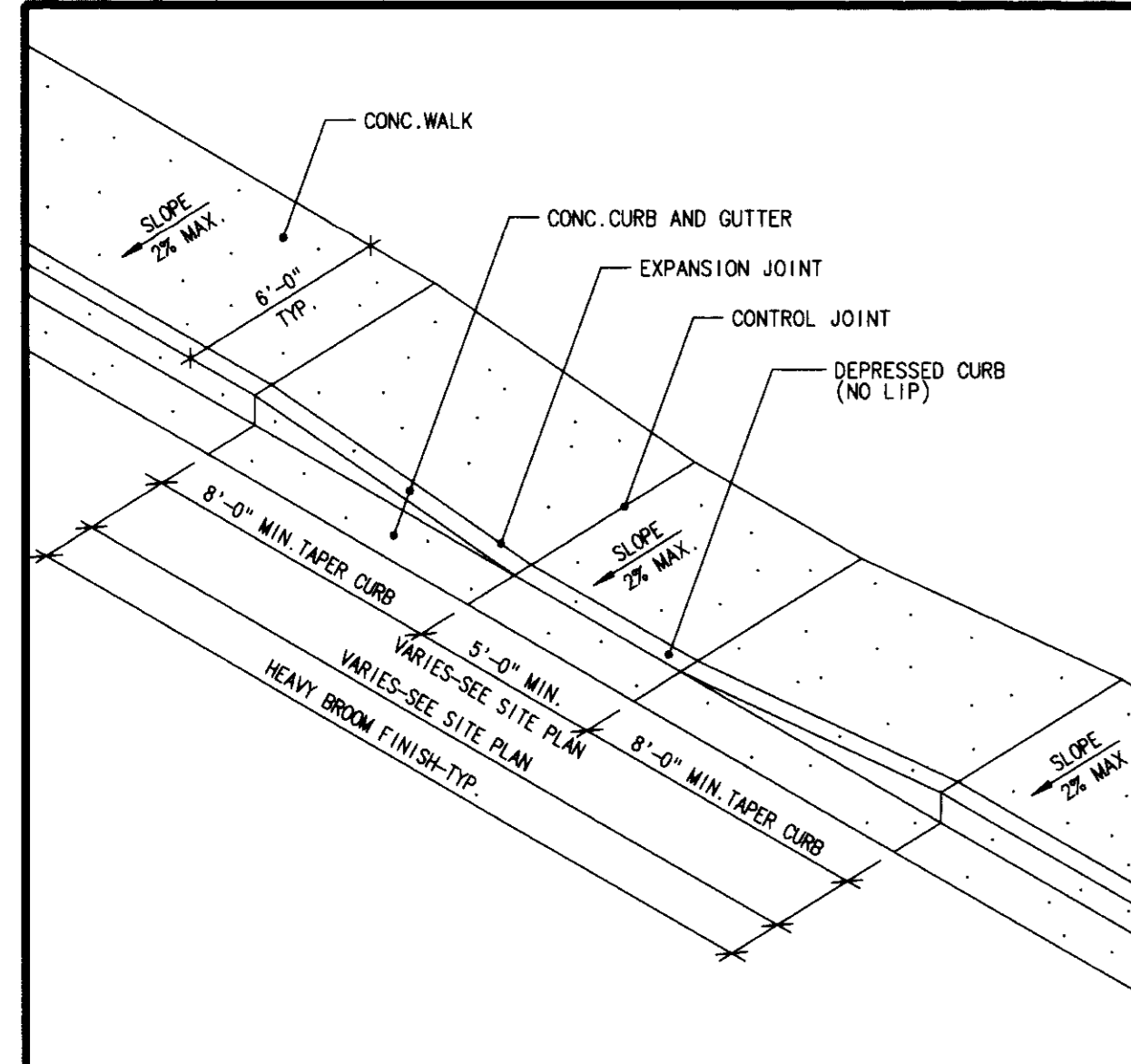
GW GUTSCHICK LITTLE & WEBER, P.A.
 CIVIL ENGINEERS, SURVEYORS, PLANNERS, LANDSCAPE ARCHITECTS
 3909 NATIONAL DRIVE - SUITE 250 - BURTONSVILLE OFFICE PARK - BURTONSVILLE, MARYLAND 20866
 TEL: (301) 421-4024 VA. (301) 989-2524 BALT. (410) 880-1820 FAX: (301) 421-4186 DES. DRN. SAC CHK.

NO.	DATE	DESCRIPTION	BY	APPR.
1-5-97		ADD 1156 NOTES AND LABELS TO TRIADDELPHIA RD. WIDENING DETAIL		
6-21-04		ADD modular classroom addition & covered walkway; also add proposed modular addition & canopy ramp elevations; add water & sewer service connections		F.C.C.
7-5-05		ADD full day kindergarten addition, paved & asphalt play areas & details & concrete sidewalks		F.C.C.
8/1/10		ADD PRE-FABRICATED SHED FOR FIRE PUMP ENCLOSURE		F.C.C.

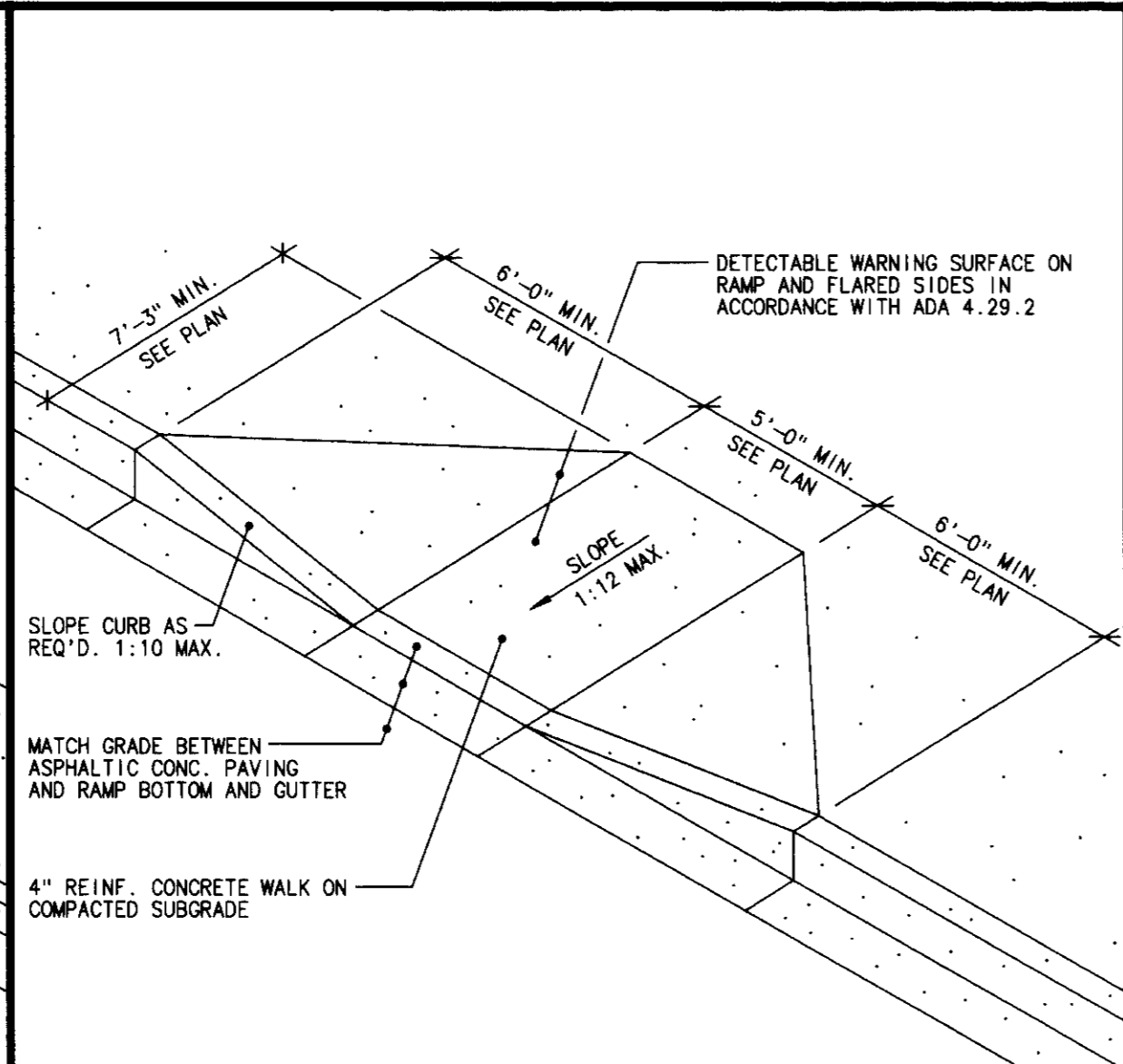
PREPARED FOR:
 HOWARD COUNTY PUBLIC SCHOOL SYSTEM
 10910 ROUTE 108
 ELLICOTT CITY, MARYLAND 21043
 PHONE: (410) 313-6805

SITE DEVELOPMENT PLAN
WESTERN ELEMENTARY SCHOOL No. 3
 WEST FRIENDSHIP ELECTION DISTRICT No. 3
 HOWARD COUNTY, MARYLAND

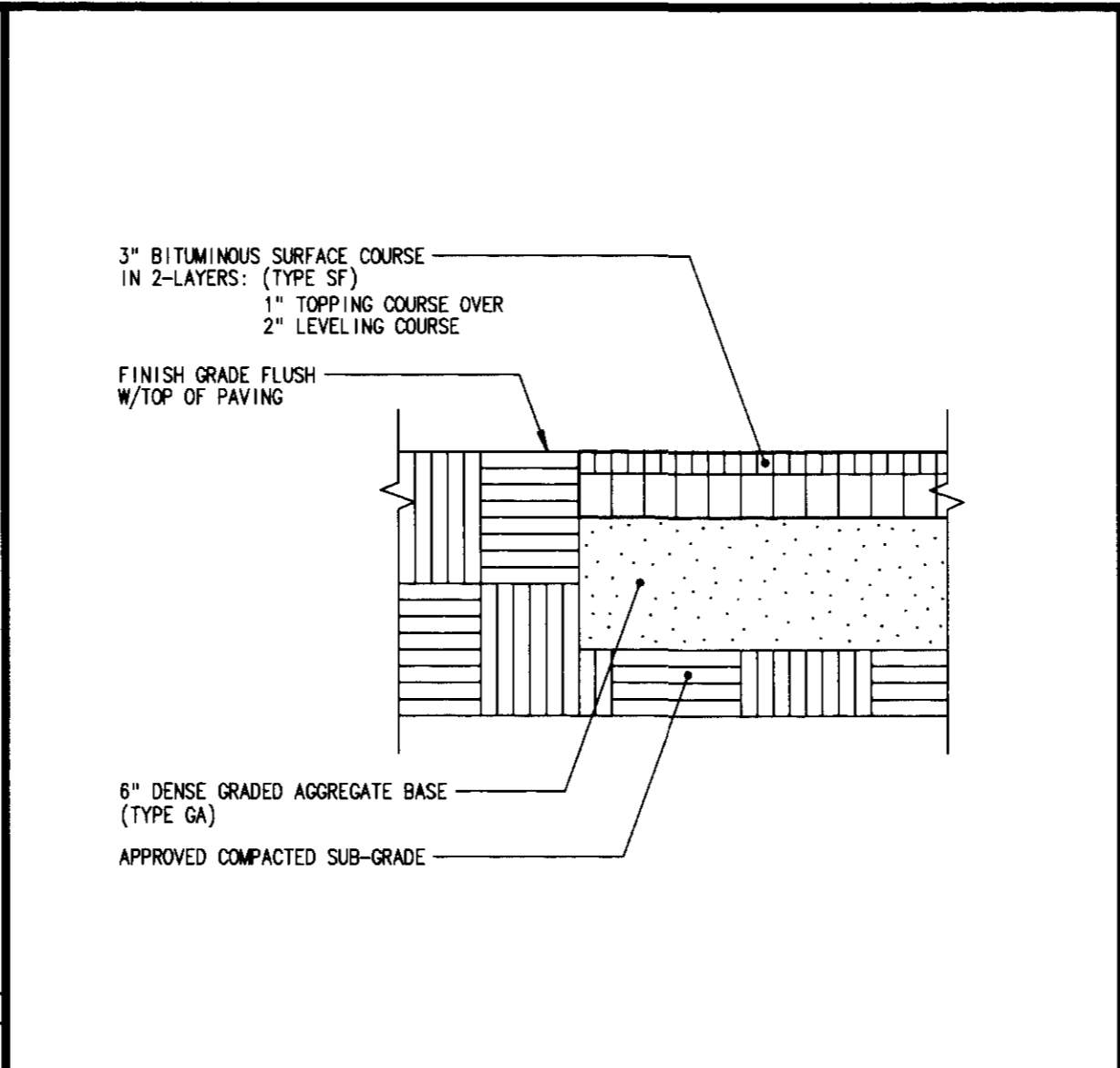
SCALE	ZONING	G. L. W. FILE NO.
1" = 40'	RR	96012
DATE	TAX MAP No.	SHEET
1.02.97	22	C-2 OF 16



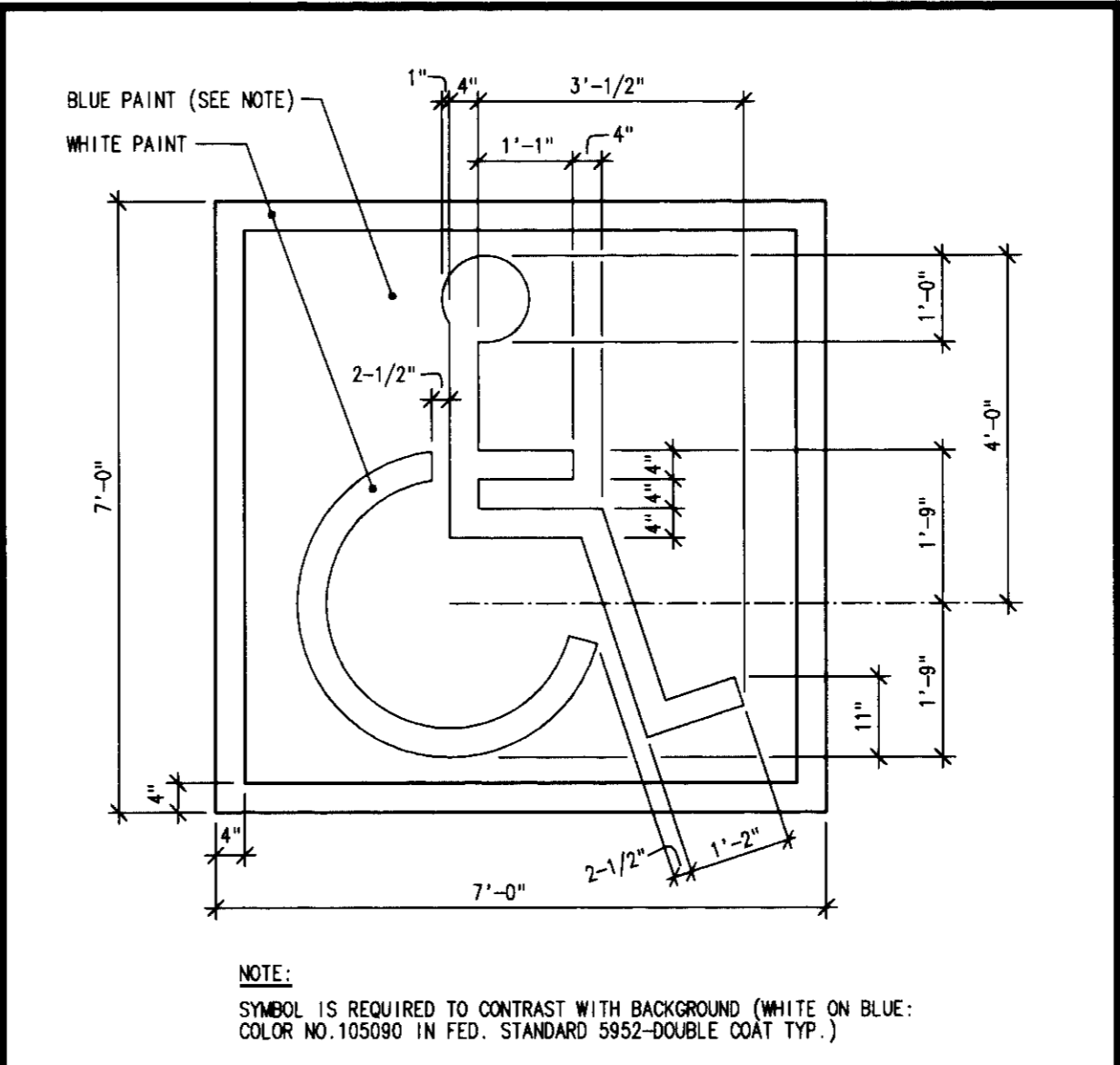
1
C-15 TYPE A CURB RAMP DETAIL NO SCALE



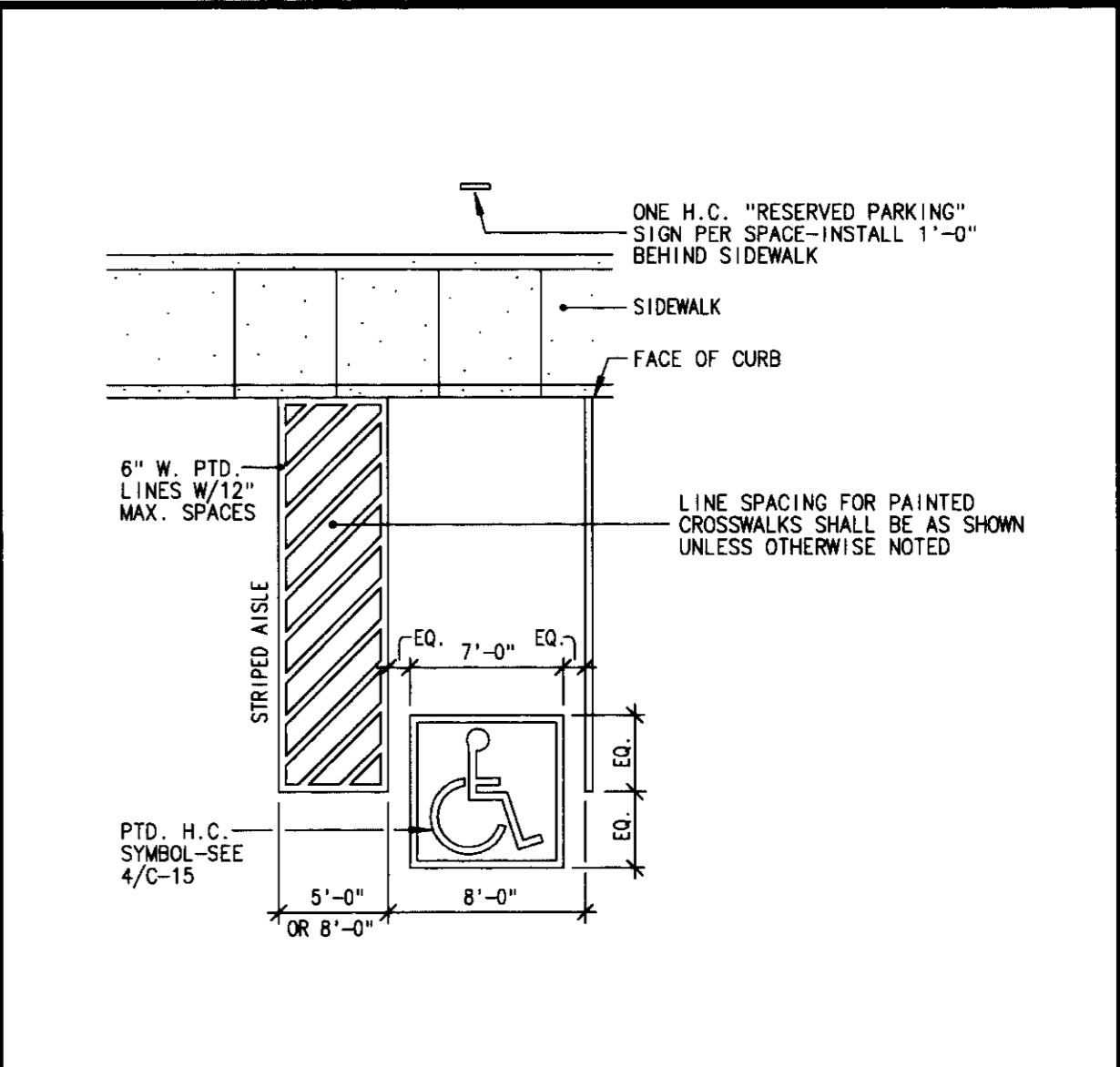
2
C-15 TYPE 1 CURB RAMP DETAIL NO SCALE



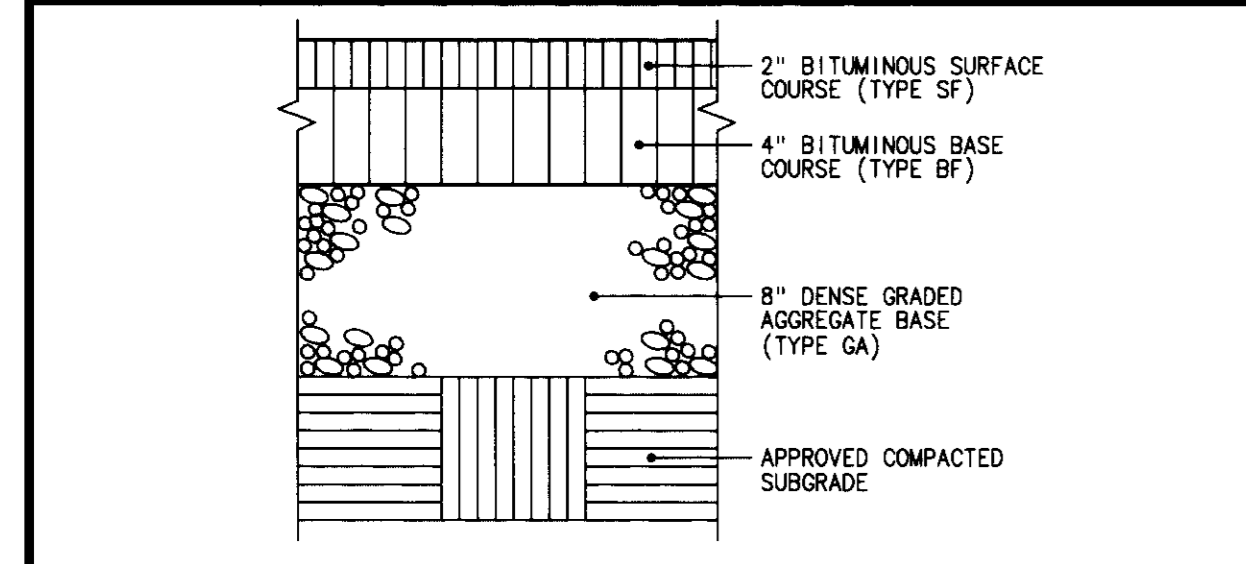
3
C-15 BITUMINOUS CONCRETE WALK DETAIL 1 1/2\"/>



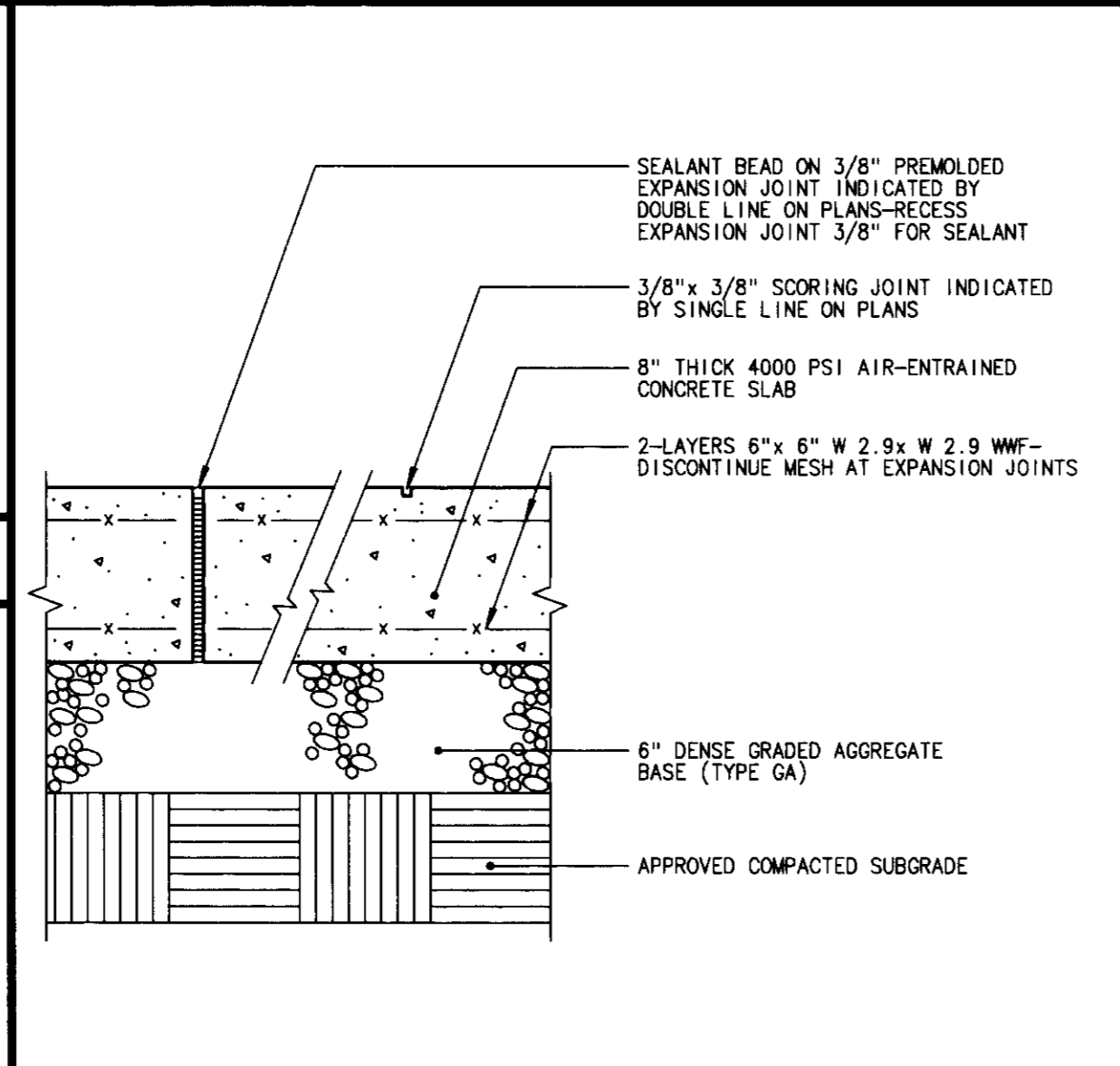
4
C-15 ACCESSIBLE SPACE STENCIL LAYOUT 1 1/2\"/>



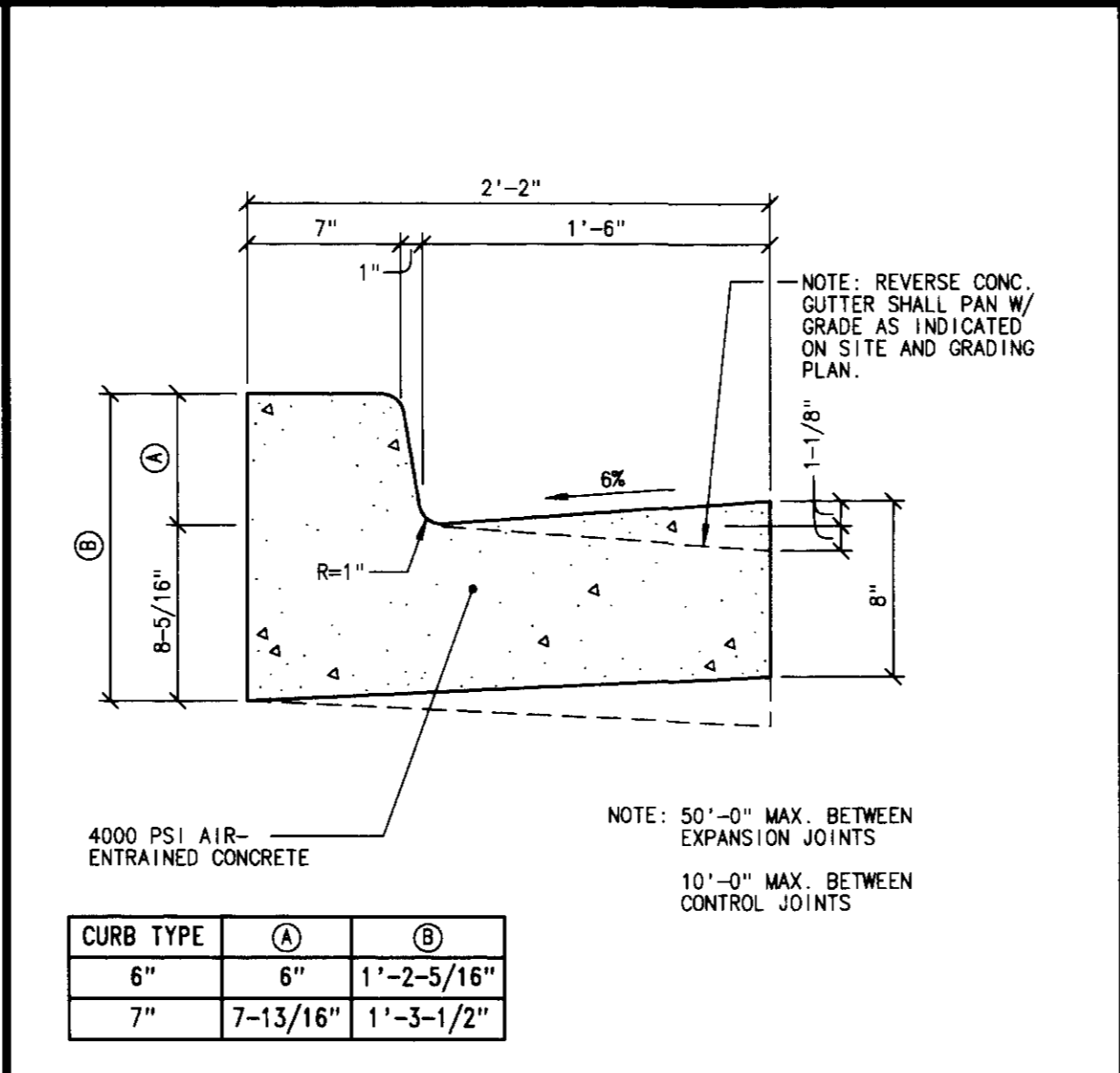
5
C-15 ACCESSIBLE SPACE LAYOUT 1 1/8\"/>



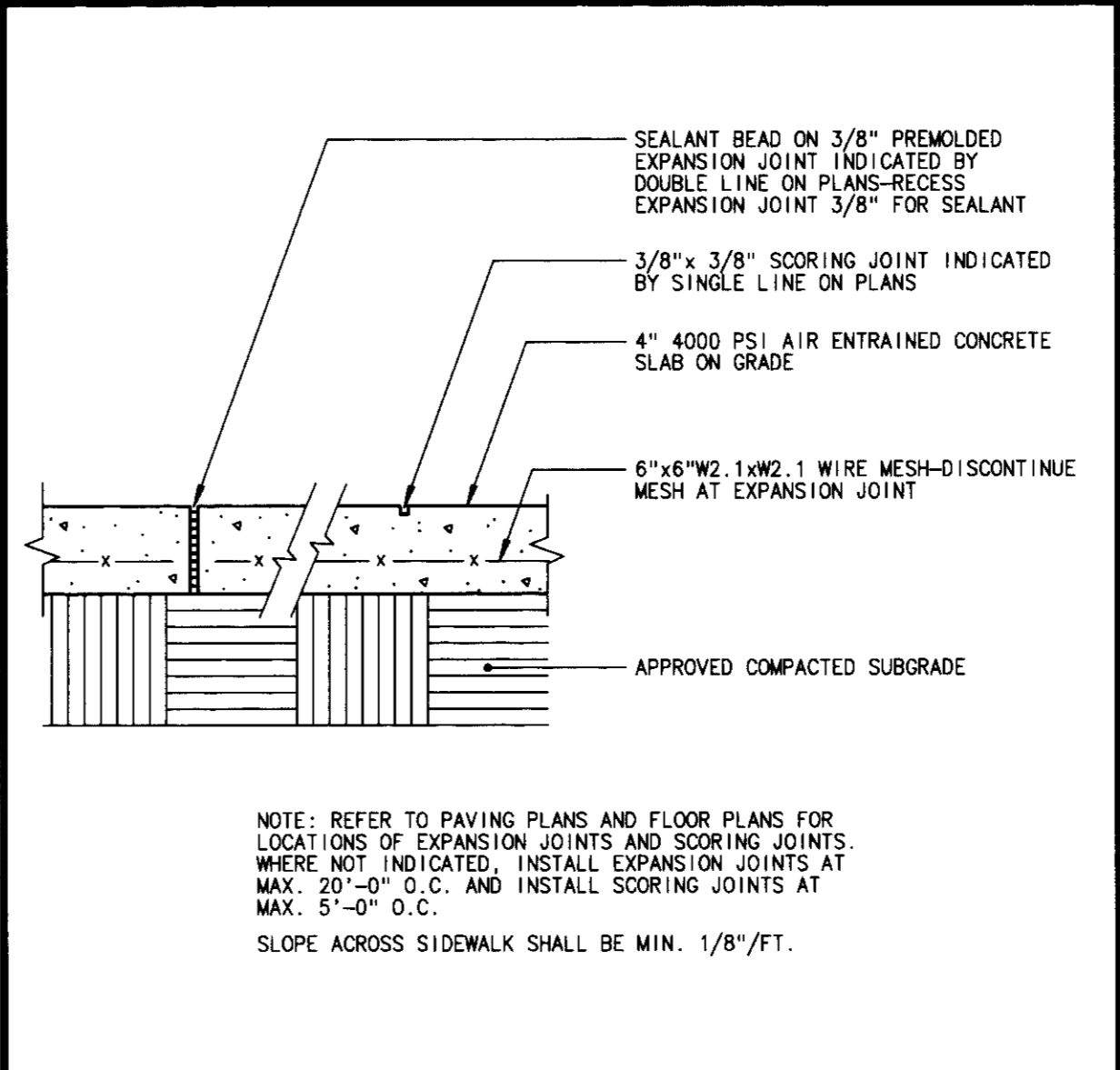
10
C-15 HEAVY DUTY PAVEMENT DETAIL 1 1/2\"/>



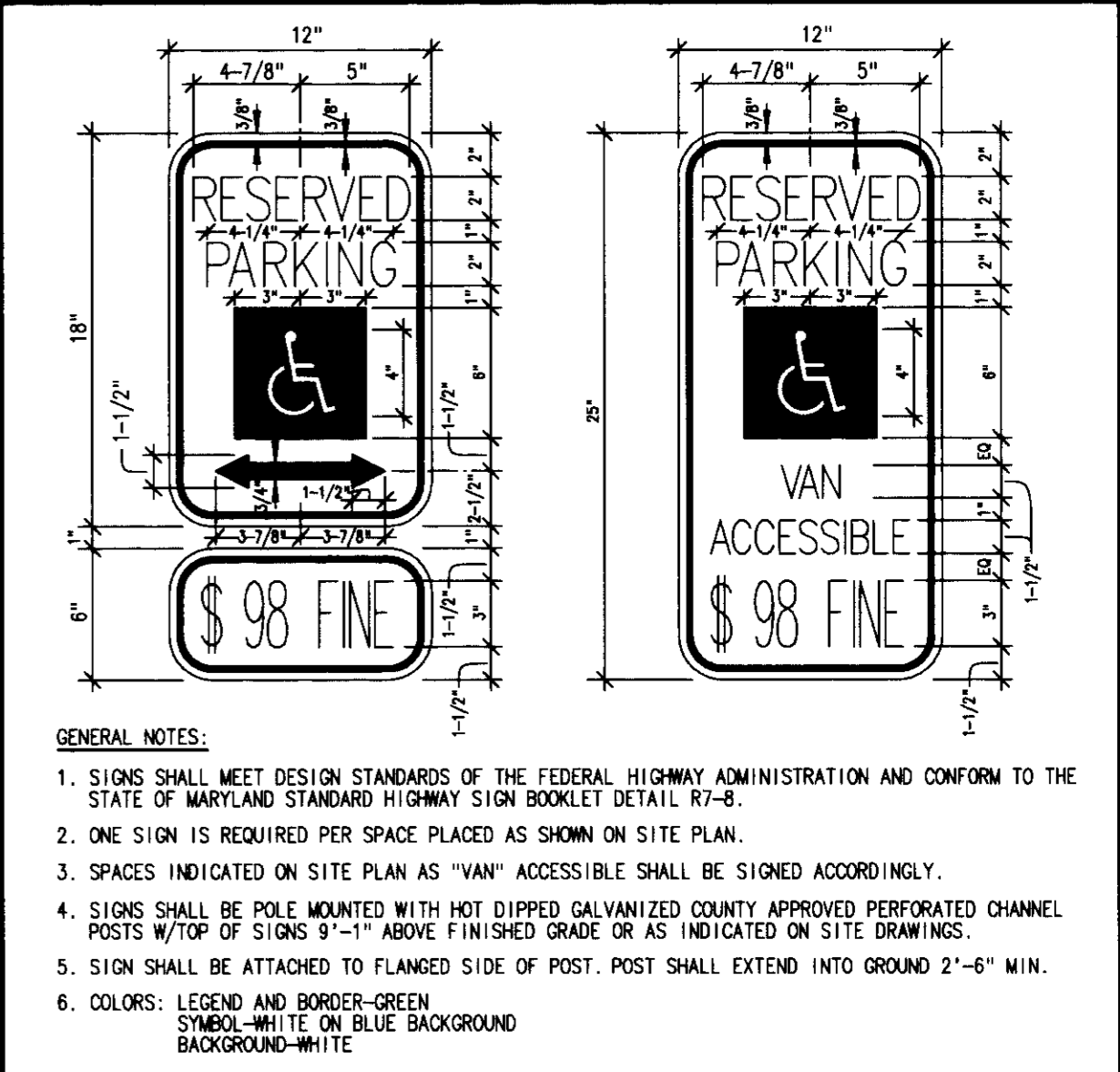
9
C-15 SERVICE AREA CONCRETE PAVING 1 1/2\"/>



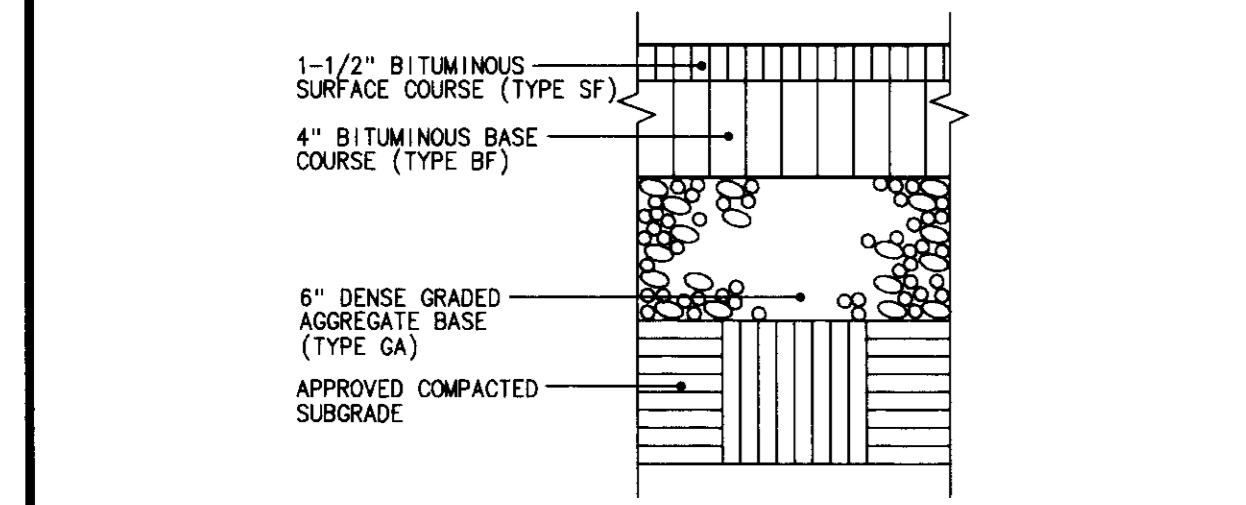
8
C-15 CONCRETE CURB AND GUTTER 1 1/2\"/>



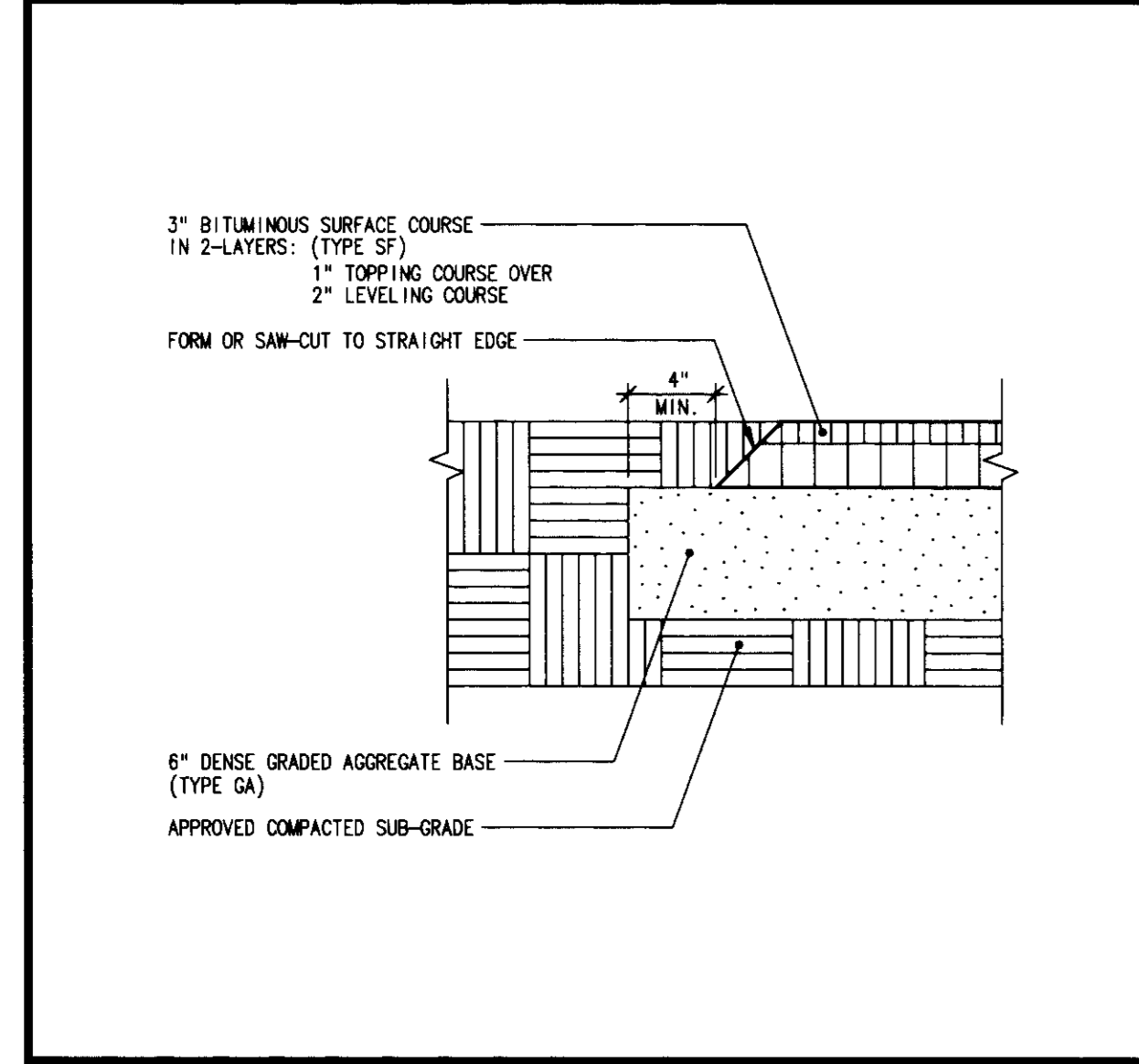
7
C-15 CONCRETE WALK DETAIL 1 1/2\"/>



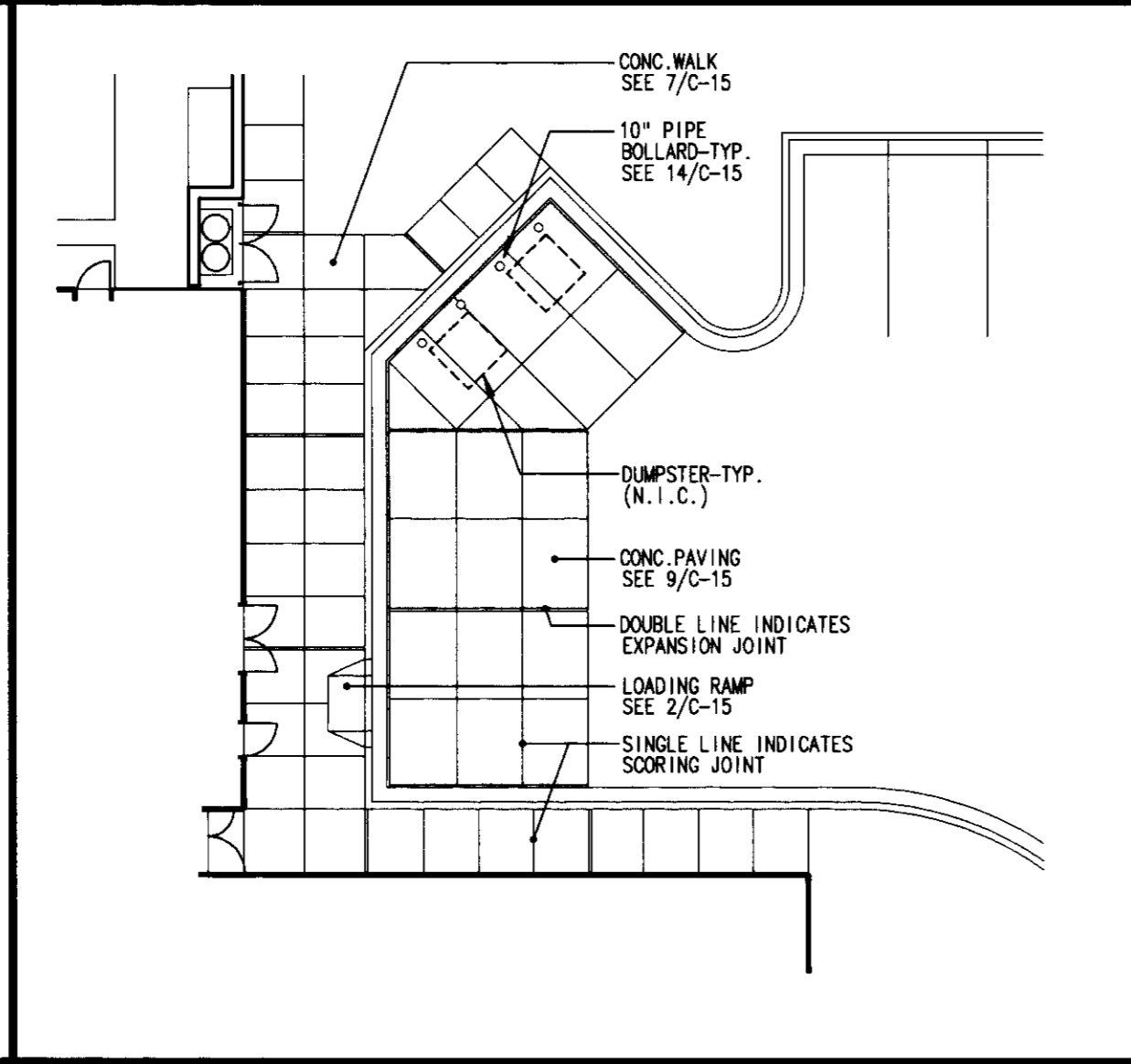
6
C-15 HANDICAP PARKING SIGNS DETAIL NO SCALE



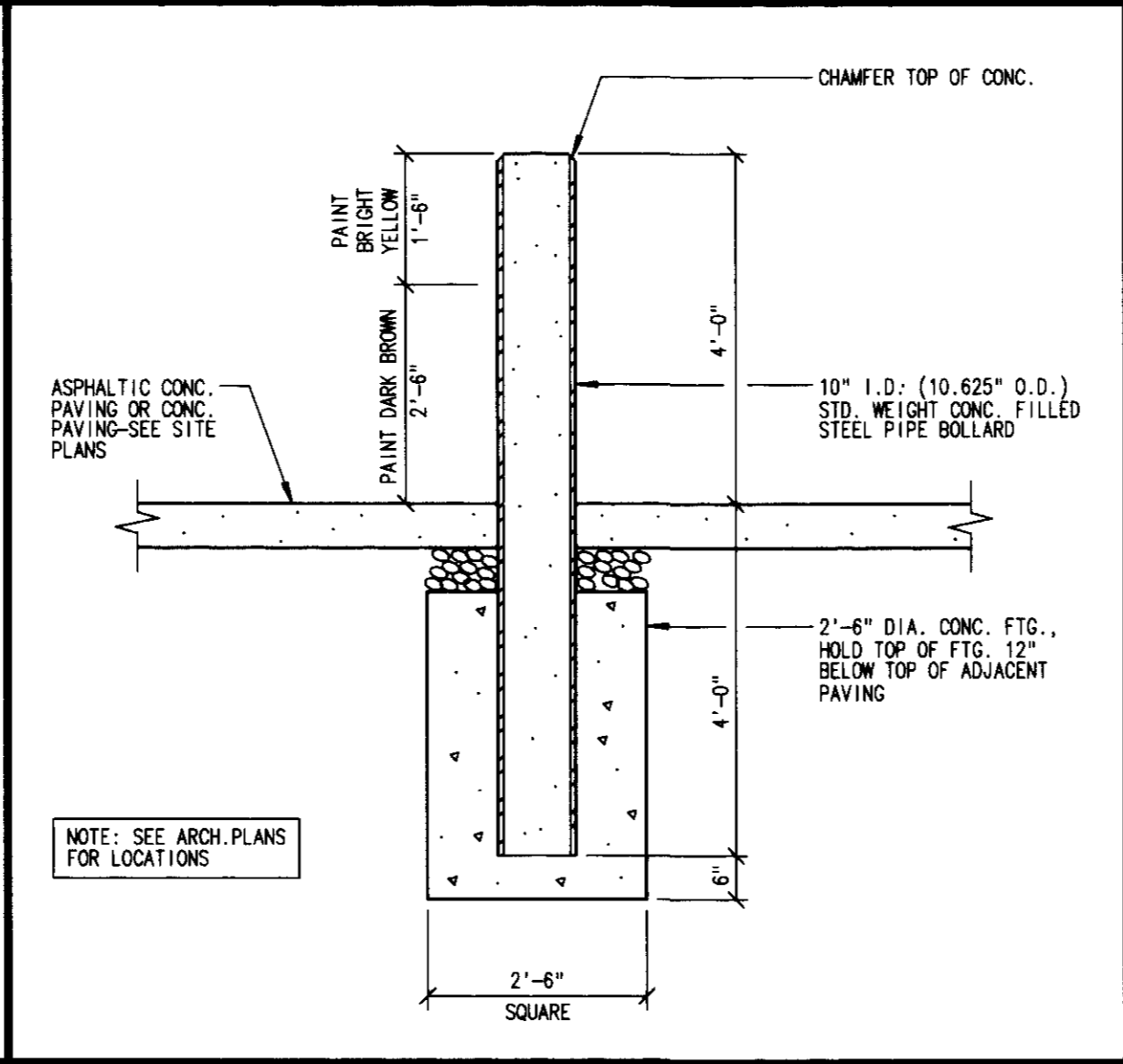
11
C-15 LIGHT DUTY PAVEMENT DETAIL 1 1/2\"/>



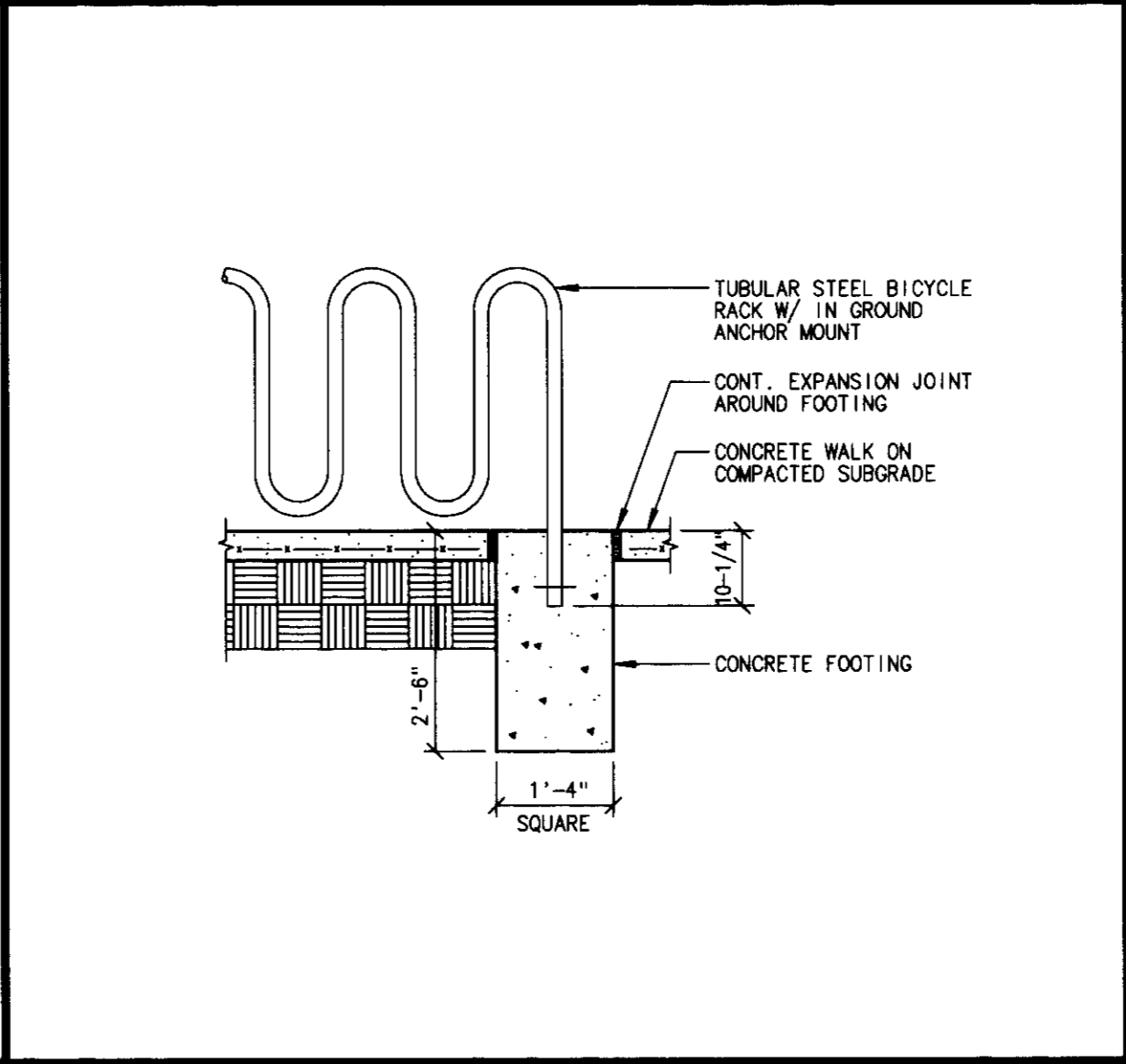
12
C-15 PAVED PLAY AREA PAVEMENT DETAIL 1 1/2\"/>



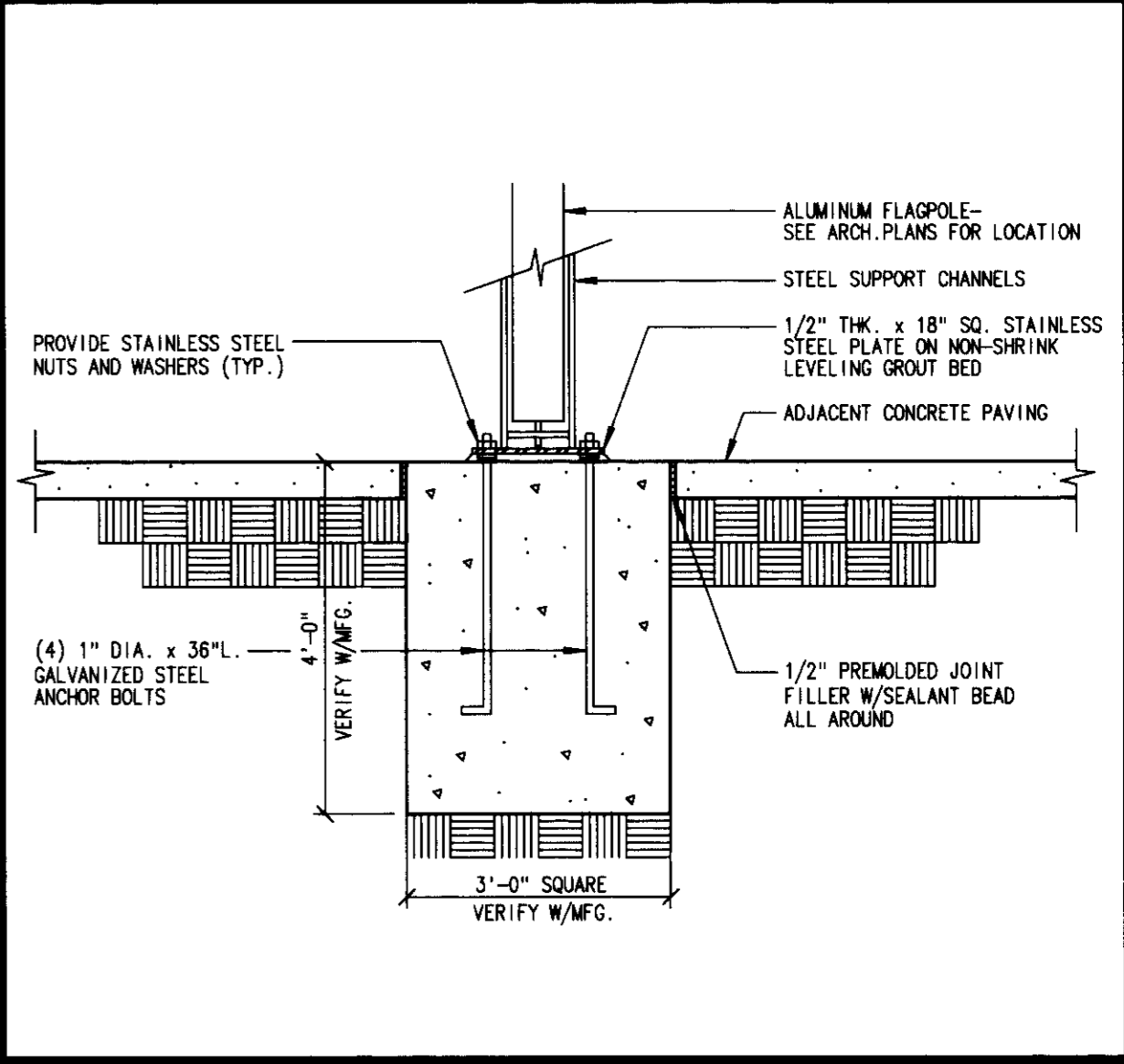
13
C-15 DUMPSTER AND LOADING AREA DETAIL 1 1/2\"/>



14
C-15 PIPE BOLLARD DETAIL 1 1/2\"/>



15
C-15 BICYCLE RACK DETAIL 1 1/2\"/>



16
C-15 TILT FLAGPOLE DETAIL 1 1/2\"/>

APPROVED: HOWARD COUNTY HEALTH DEPARTMENT FOR Private WELL AND SEPTIC SYSTEMS
 HEALTH OFFICER: Joseph M. Boyd DATE: 2-5-97
 OWNER: HOWARD COUNTY PUBLIC SCHOOL SYSTEM
 10910 ROUTE 108
 ELLICOTT CITY, MARYLAND 21043

APPROVED: DEPARTMENT OF PLANNING AND ZONING
 DIRECTOR: Richard Blood DATE: 2/4/97
 CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING
 CHIEF, DEVELOPMENT ENGINEERING DIVISION: Richard Blood DATE: 1/20/97

SITE DETAILS
 WESTERN ELEMENTARY SCHOOL NO. 3
 TAX MAP NO: 22 PARCEL: 6
 3RD ELECTION DISTRICT: HOWARD COUNTY, MARYLAND
 SCALE: AS SHOWN

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

BOARD OF ARCHITECTS
 THOMAS JOSEPH CLARK, P.C.
 STATE OF MARYLAND

tca
 Thomas Clark Associates Architects
 Annapolis, Maryland

1-02-97
C-15
 of 10
 project no. 9602

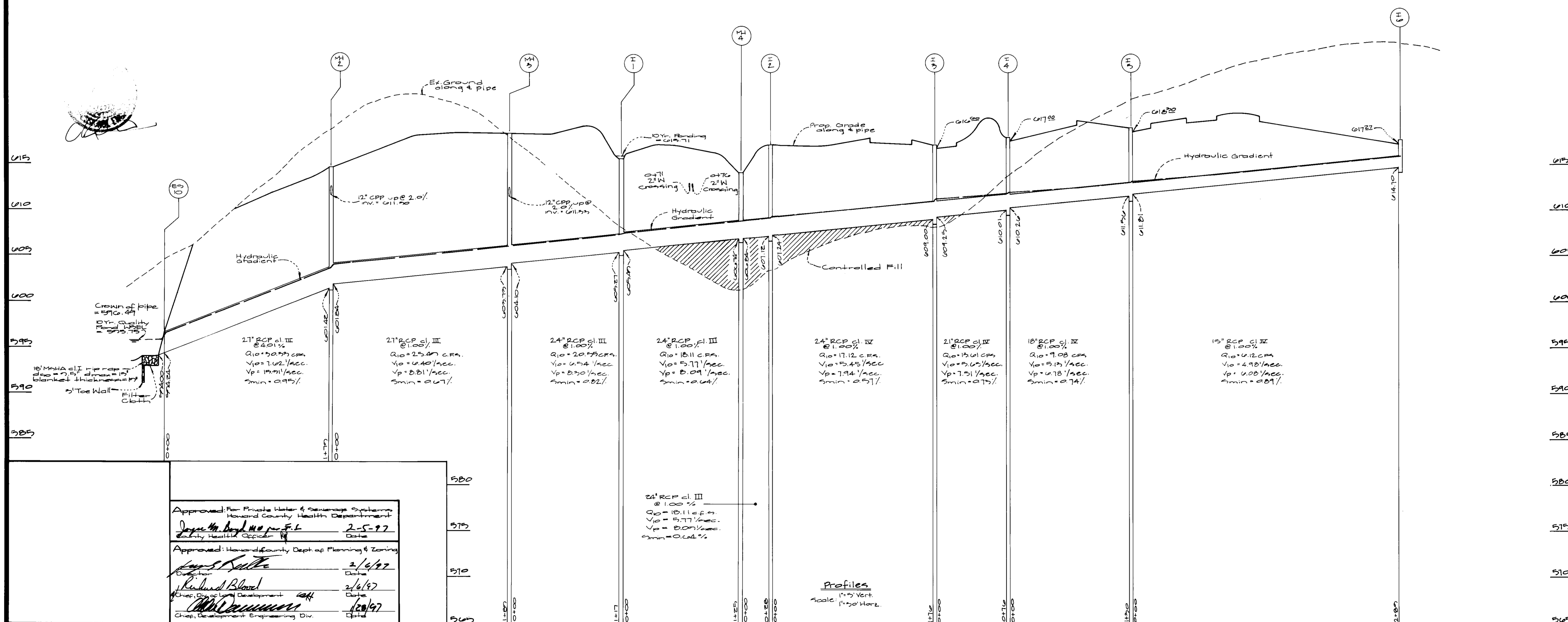
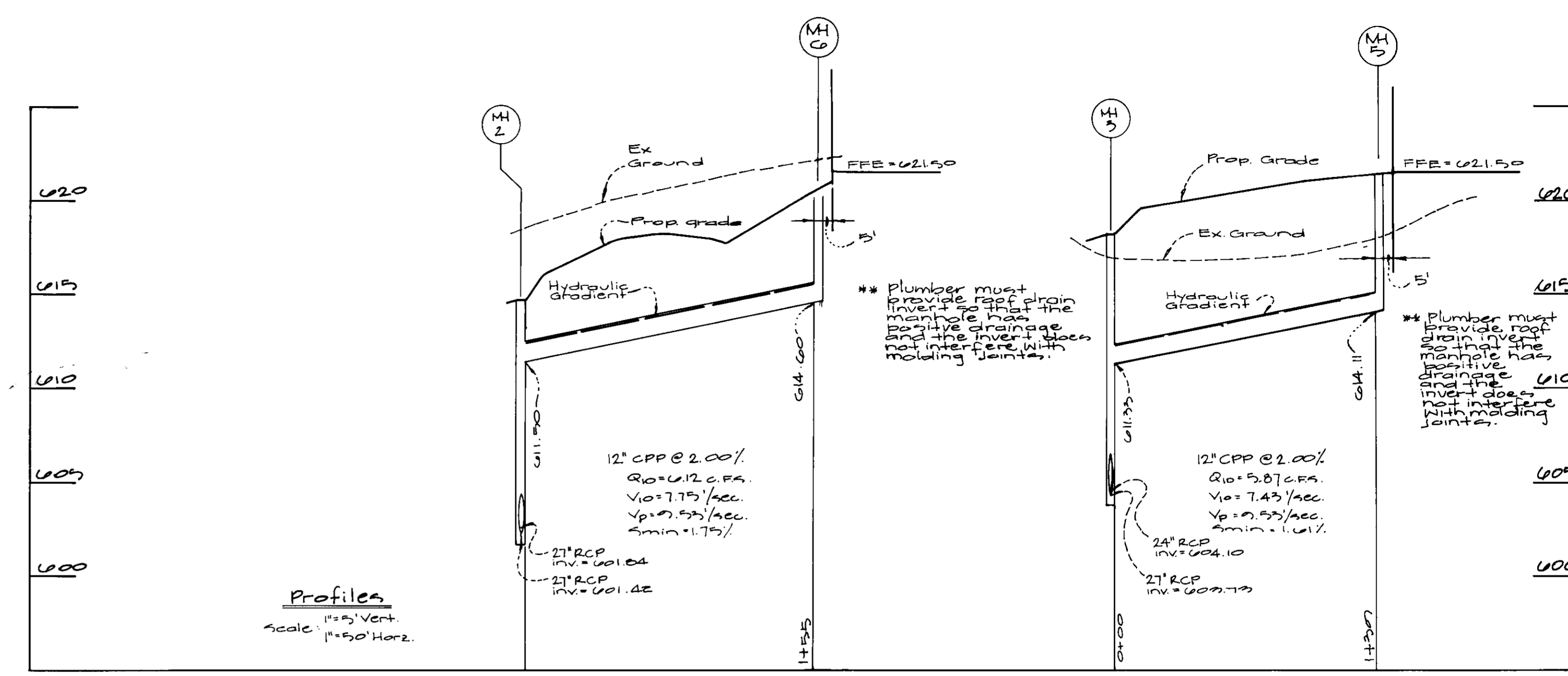
Structure Schedule						
No.	Type	Width	Top Elev.	Inv. Elev.	Std. Detail	Location
I-1	S Inlet	2'-7 1/2"	609.90	609.27	SD 422/SD 423*	See Plan
I-2	A-10 Inlet	3'-6"	607.20	607.12	SD 402	"
I-3	"	5'-0"	607.20	607.00	"	"
I-4	"	2'-0"	607.50	607.01	"	"
I-5	"	3'-0"	608.00	611.50	"	See Plan
I-6	"	2'-0"	607.77	614.70	"	"
MH-1	std. Manhole	4'-0"	614.00	611.50	G-501	See Plan
MH-2	"	4'-0"	618.00	611.75	"	"
MH-4	"	4'-0"	614.00	609.74	"	"
MH-5	Polyethylene Manhole	4'-11"	621.20	**	AD9 Polyethylene	See Plan
MH-6	"	4'-11"	621.20	**	G14.60	"
ES-10	conc. end sect. 24" Pipe	6'-0"	596.51	594.00	SD 501	See Plan

Pipe Schedule			
Size	Type	Class	Quant.
12"	CPP	-	274 LF
15"	RCP	IV	289 LF
18"	RCP	IV	130 LF
21"	RCP	IV	70 LF
24"	RCP	IV	170 LF
24"	RCP	III	270 LF
27"	RCP	III	206 LF

CPP Indicates N-12 Polyethylene pipe by Advanced Drainage Systems Inc., or Hi-Q Polyethylene Pipe by Hanco Distributors or approved equivalent.

Note: These Schedules are for Storm Drain only. SWM Structures and Pipes are not included.

- * Precast Alternatives are Acceptable
- * Manholes B and C must be Polyethylene Manholes from Advanced Drainage Systems Inc. or approved equivalent. See specifications, Package from Architect for installation Procedures and HDPE specifications.
- * SD detail 493 must be used for the grate for Inlet I-1.



Approved: For Private Water & Sewerage Systems
Howard County Health Department
Jayce M. Boyd M.D. p.c. F.I. 2-5-97
County Health Officer

Approved: Howard County Dept. of Planning & Zoning
Jay S. Suttie 2/6/97
Director

Richard Blawie 2/6/97
Chief, Div. of Land Development

Michael... 1/28/97
Chief, Development Engineering Div.

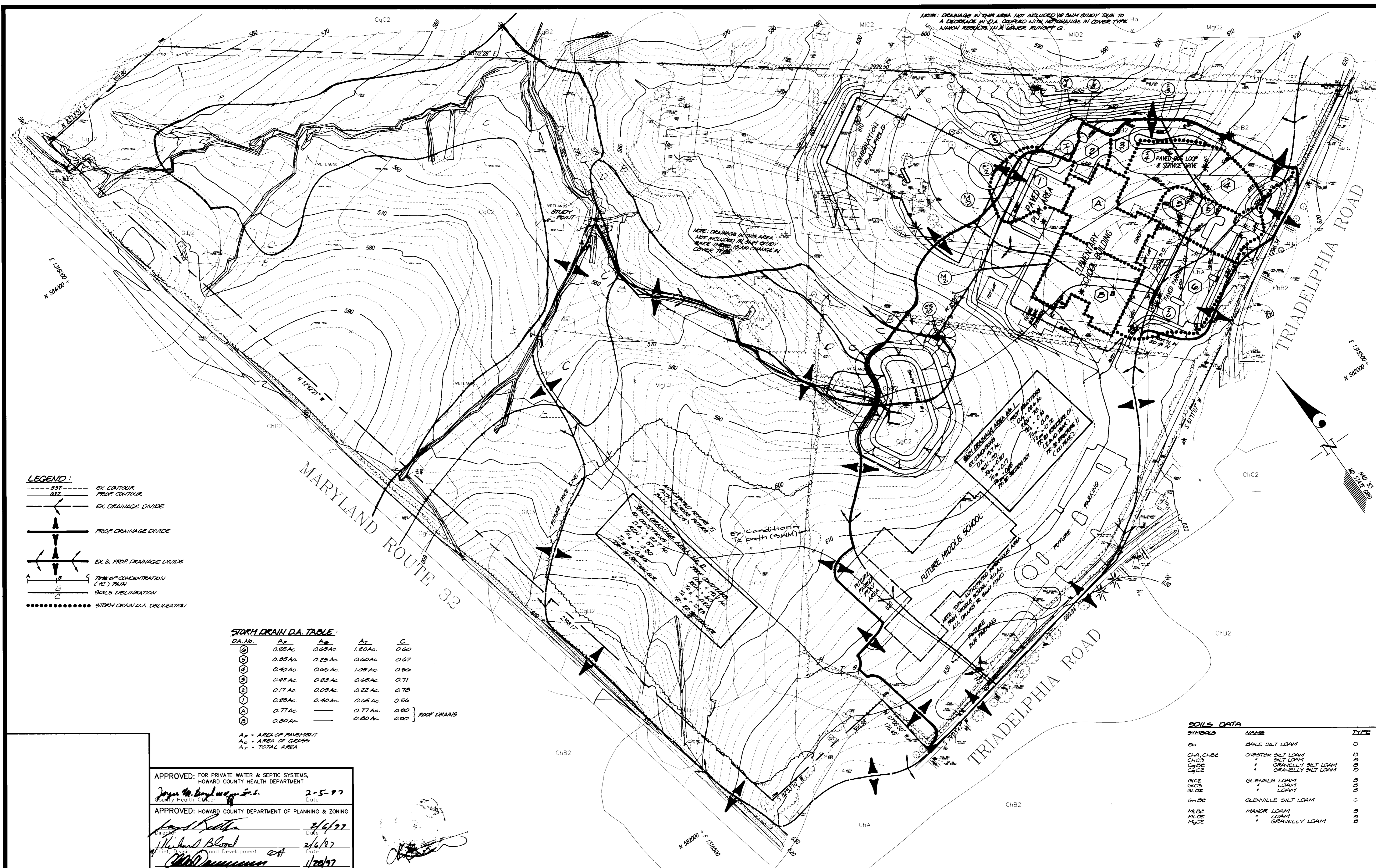
GLW GUTSCHICK LITTLE & WEBER, P.A.
CIVIL ENGINEERS, SURVEYORS, PLANNERS, LANDSCAPE ARCHITECTS
3909 NATIONAL DRIVE - SUITE 250 - BURTONSVILLE OFFICE PARK - BURTONSVILLE, MD 20866
TELEPHONE (301)421-4024 NO VA (301)989-2524 BALTO. (301)880-1820 FAX (301)421-4186

DATE	REVISION	BY	APP'R.
1/16/97	Added inv. out elev. to structure schedule for MH 6	MST	

PREPARED FOR:
Howard County Public School System
% Thomas Clark Associates Architects
2001 Riva Road, Suite 120
Annapolis, Md 21401
(301) 261-8700
(410) 260-7722

Storm Drain Profiles
Western Elementary School N^o 3
West Friendship Election District No. 3
Howard County, Maryland

DES.:	SCALE	ZONING	G.L.W. FILE NO.
As Shown	RR	20012	
DRN.:	DATE	TAX MAP NO.	SHEET
MCF	1-02-97	22	C-13 OF 16
CHK.:			



NOTE: DRAINAGE IN THIS AREA NOT INCLUDED IN SWM STUDY DUE TO A DECREASE IN D.A. CAUSED BY THE CHANGE IN COVER TYPE WHICH RESULTS IN A LOWER RUNOFF Q.

NOTE: DRAINAGE IN THIS AREA NOT INCLUDED IN SWM STUDY SINCE THERE IS NO CHANGE IN COVER TYPE.

- LEGEND:**
- 385 --- EX. CONTOUR
 - 382 --- PROP. CONTOUR
 - EX. DRAINAGE DIVIDE
 - PROP. DRAINAGE DIVIDE
 - EX. & PROP. DRAINAGE DIVIDE
 - TIME OF CONCENTRATION (T_c) PATH
 - SOILS DELINEATION
 - STORM DRAIN D.A. DELINEATION

STORM DRAIN D.A. TABLE:

D.A. No.	A _p	A _g	A _t	C
①	0.55 Ac.	0.65 Ac.	1.20 Ac.	0.60
②	0.35 Ac.	0.25 Ac.	0.60 Ac.	0.67
③	0.40 Ac.	0.65 Ac.	1.05 Ac.	0.56
④	0.42 Ac.	0.25 Ac.	0.65 Ac.	0.71
⑤	0.17 Ac.	0.05 Ac.	0.22 Ac.	0.78
⑥	0.25 Ac.	0.40 Ac.	0.65 Ac.	0.56
⑦	0.77 Ac.	---	0.77 Ac.	0.00
⑧	0.50 Ac.	---	0.50 Ac.	0.00

ROOF DRAINS

A_p = AREA OF PAVEMENT
 A_g = AREA OF GRASS
 A_t = TOTAL AREA

APPROVED: FOR PRIVATE WATER & SEPTIC SYSTEMS,
 HOWARD COUNTY HEALTH DEPARTMENT
John M. [Signature] 2-5-97
 County Health Officer Date

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING
[Signature] 2/6/97
 Director Date

[Signature] 2/6/97
 Chief, Division of Planning and Development Date

[Signature] 1/28/97
 Chief, Development Engineering Division Date

SOILS DATA

SYMBOL	NAME	TYPE
D ₁	BAILE SILT LOAM	D
ChA, ChB2	CHESTER SILT LOAM	B
ChC2	SILT LOAM	B
CgB2	GRAVELLY SILT LOAM	D
GcB2	GRAVELLY SILT LOAM	D
GcE	GLENNELLS LOAM	B
GcD2	LOAM	B
G-BC	GLENNVILLE SILT LOAM	C
MiBC	MANOR LOAM	D
MiDC	LOAM	D
MgC2	GRAVELLY LOAM	D

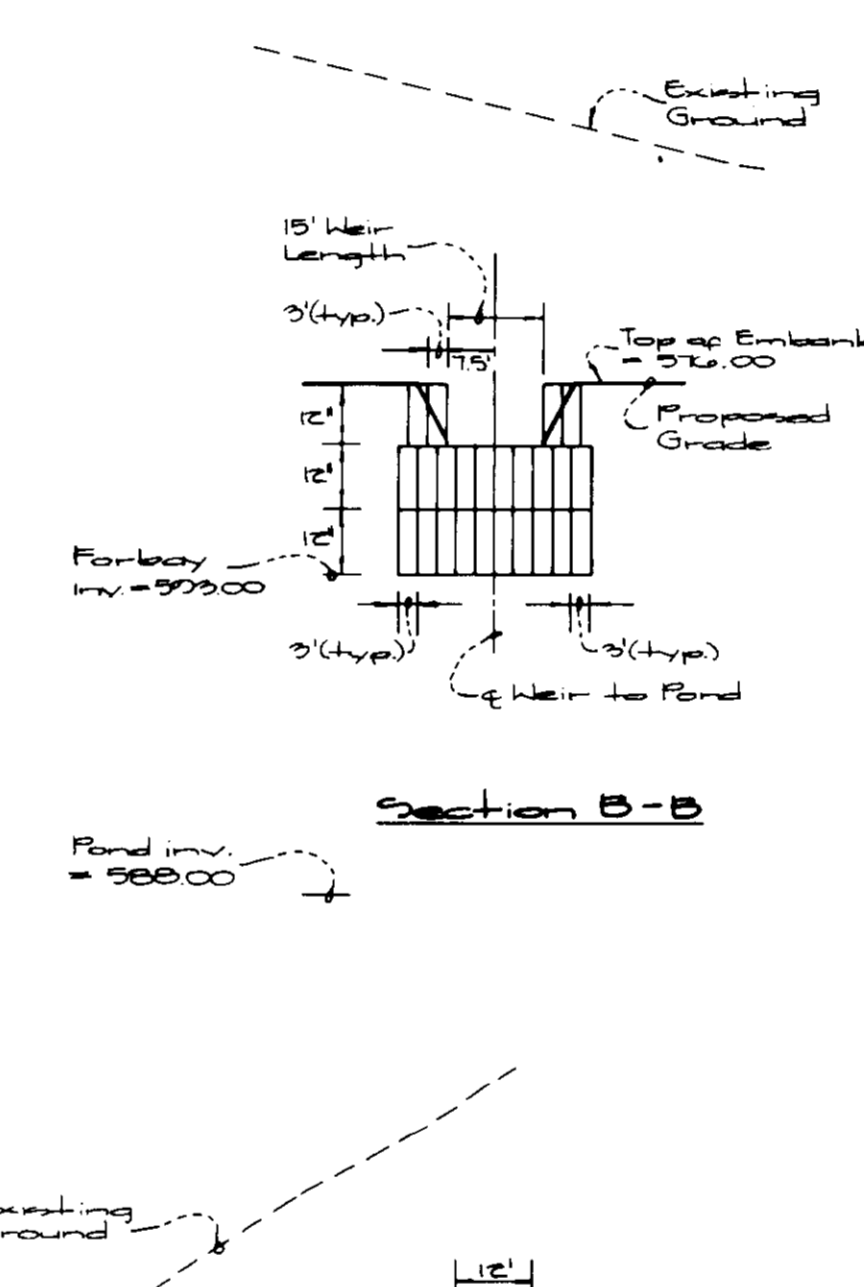
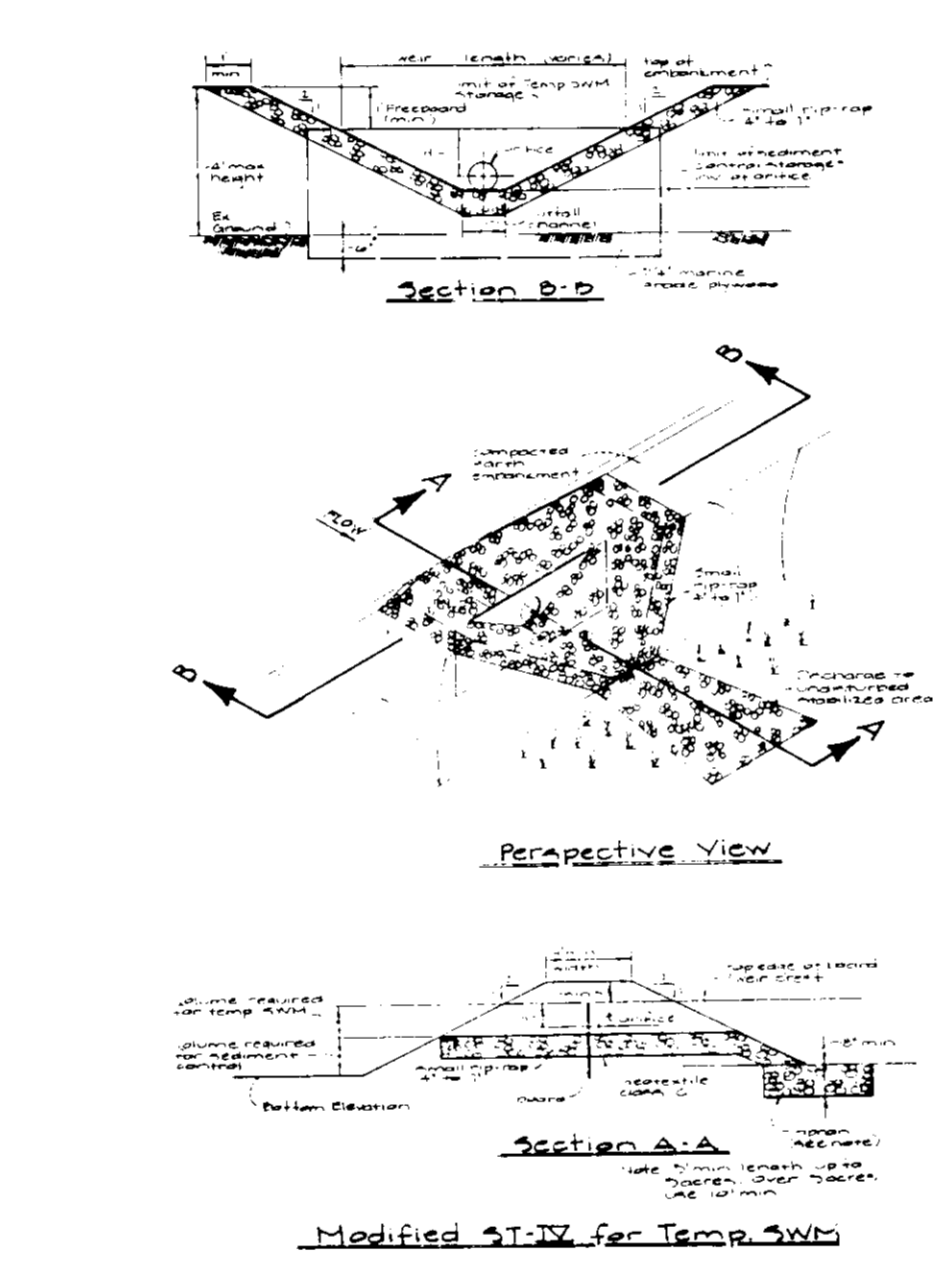
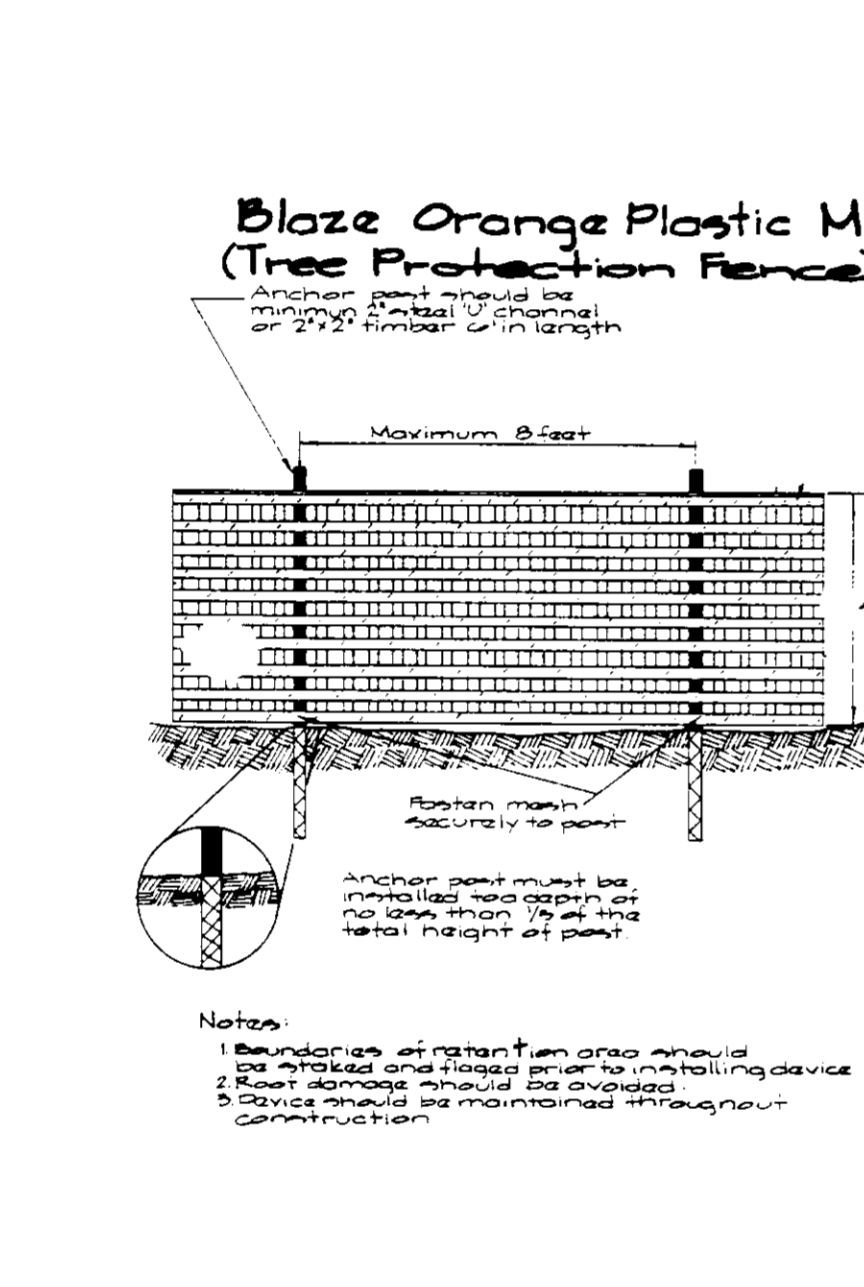
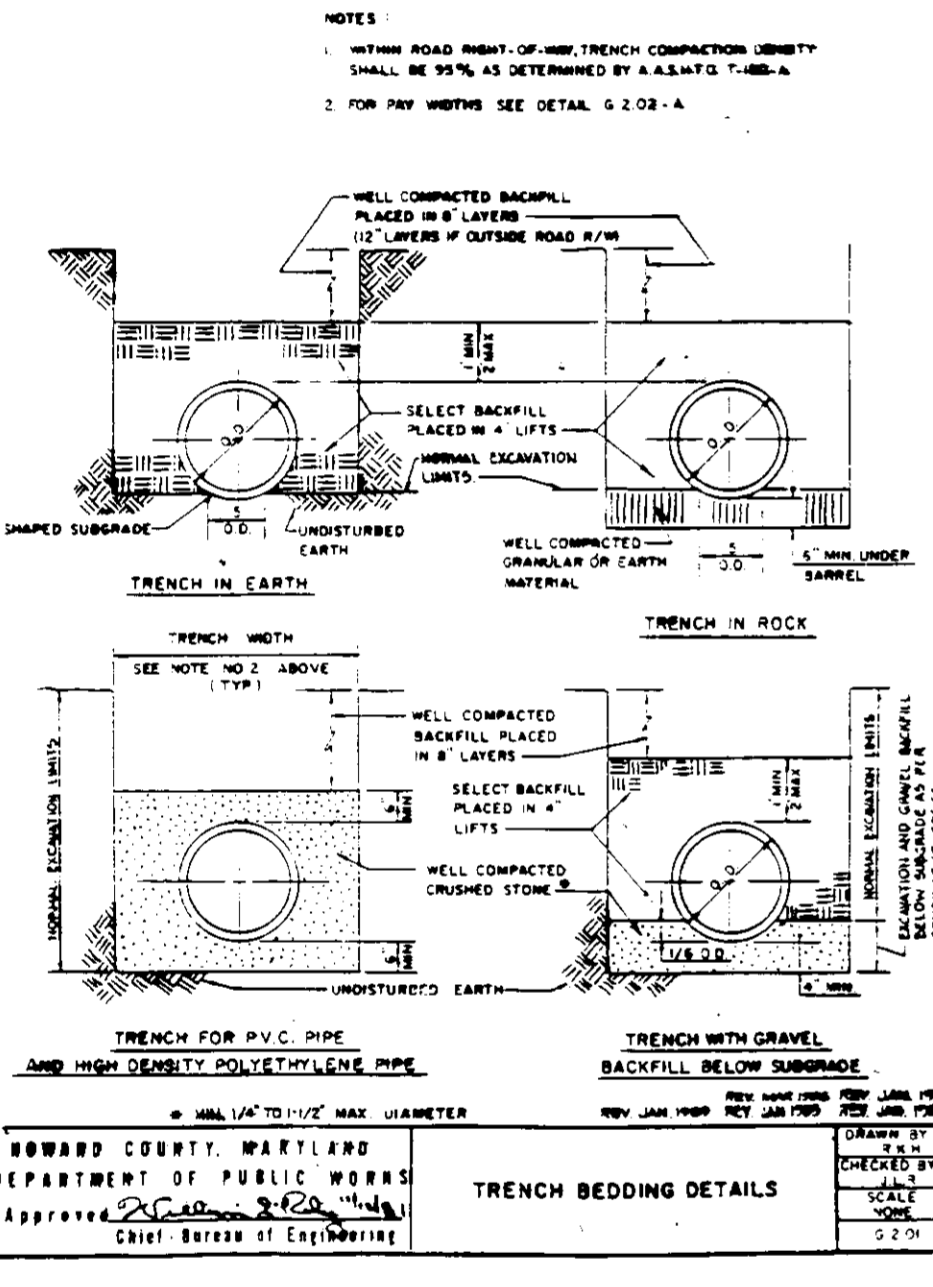
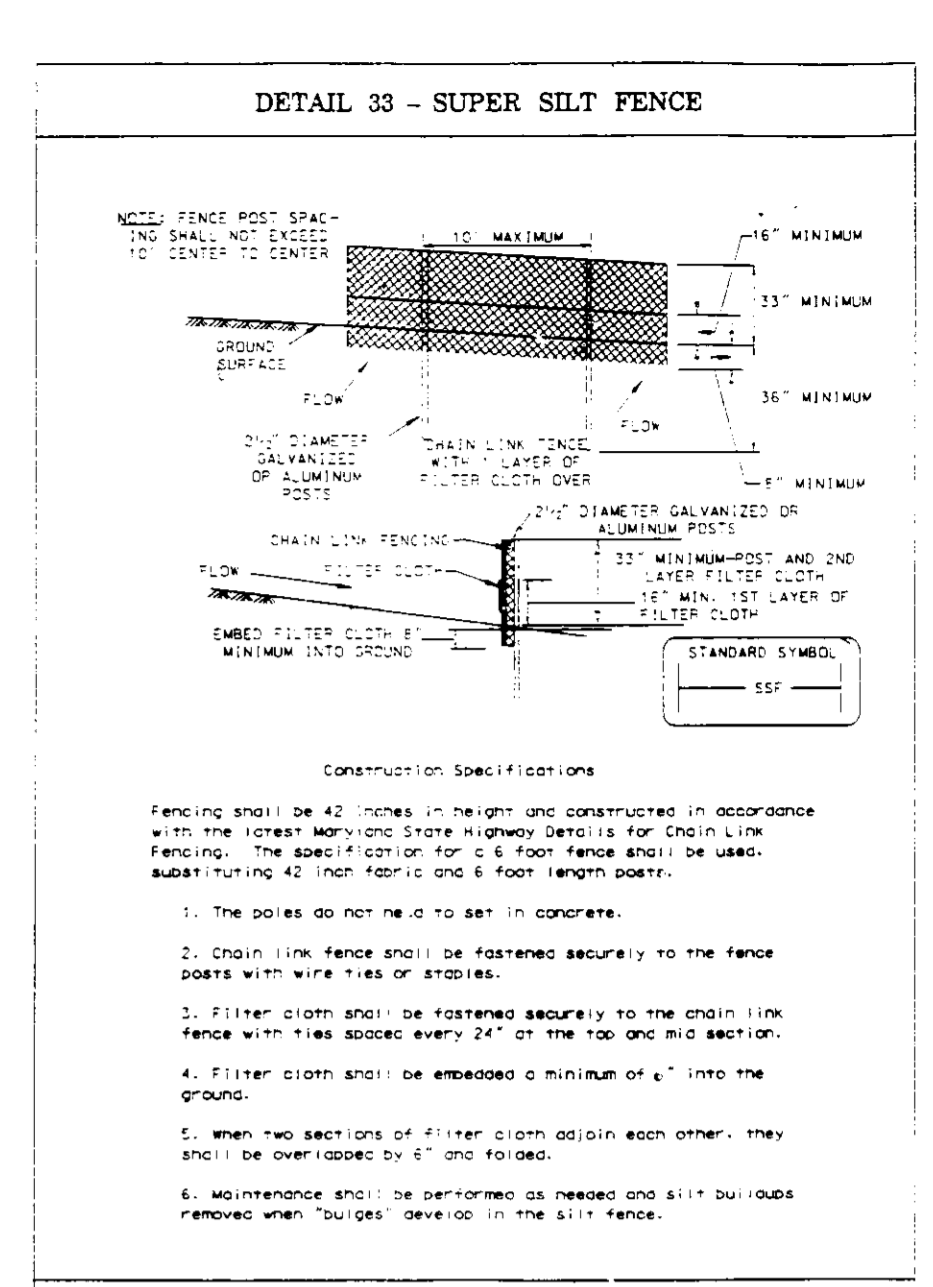
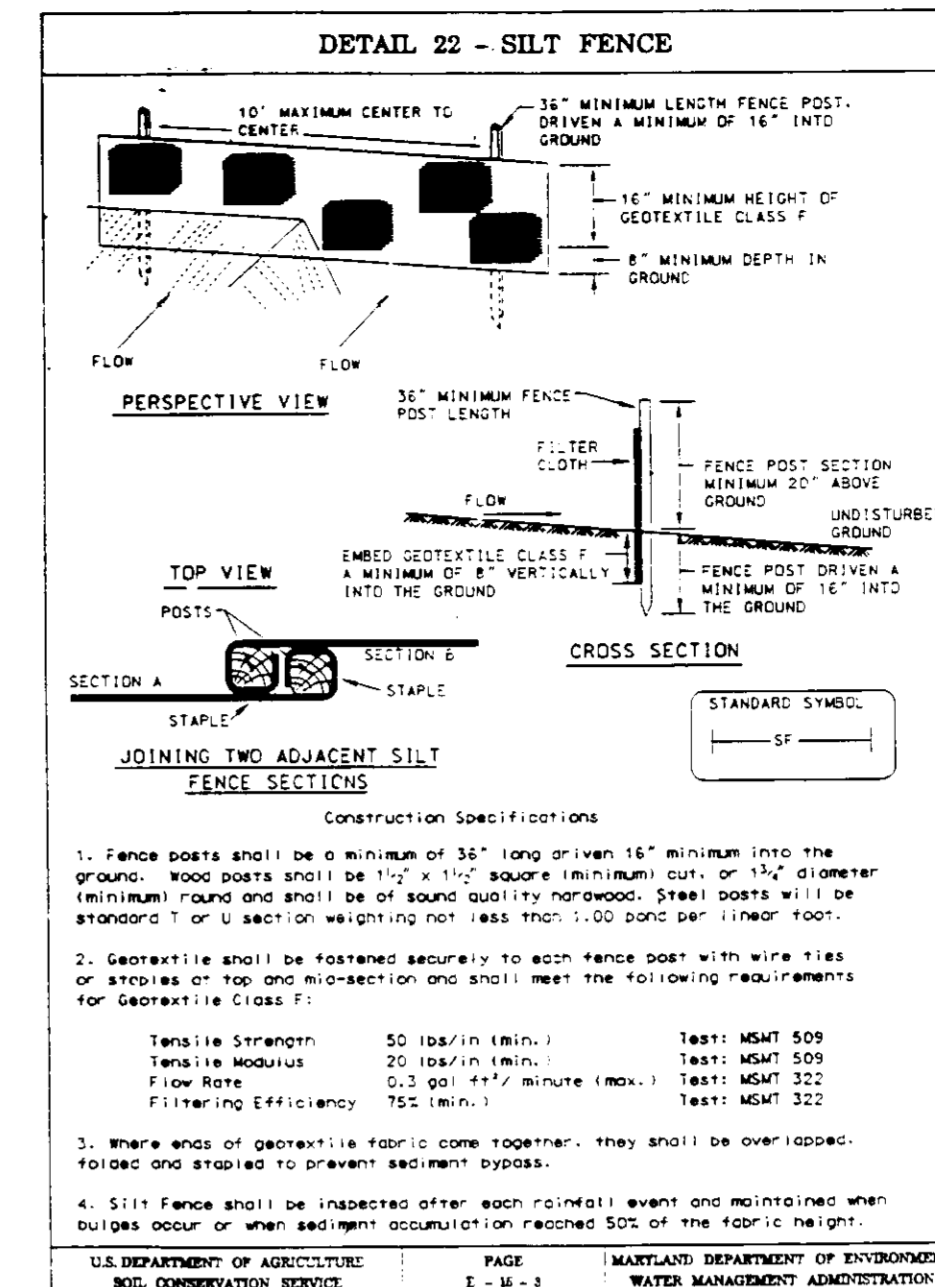
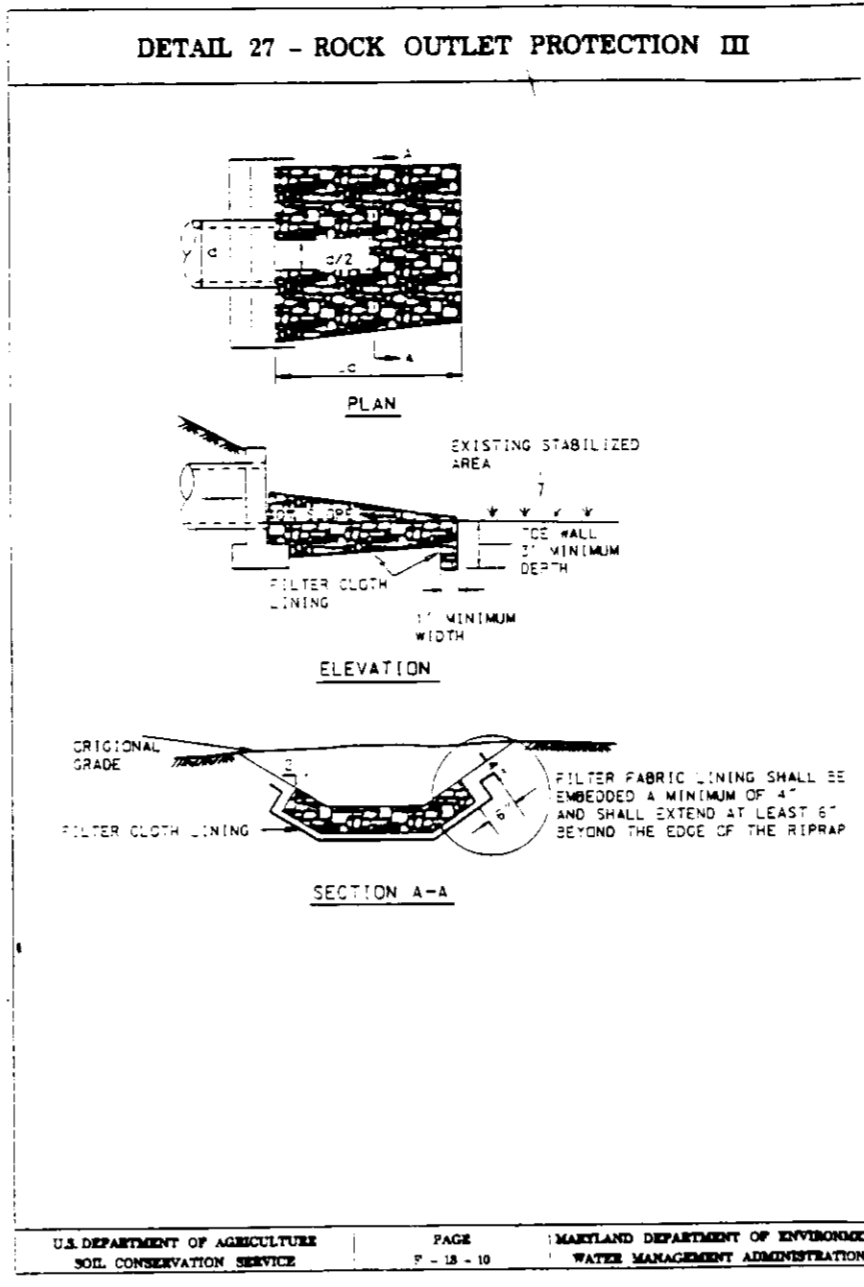
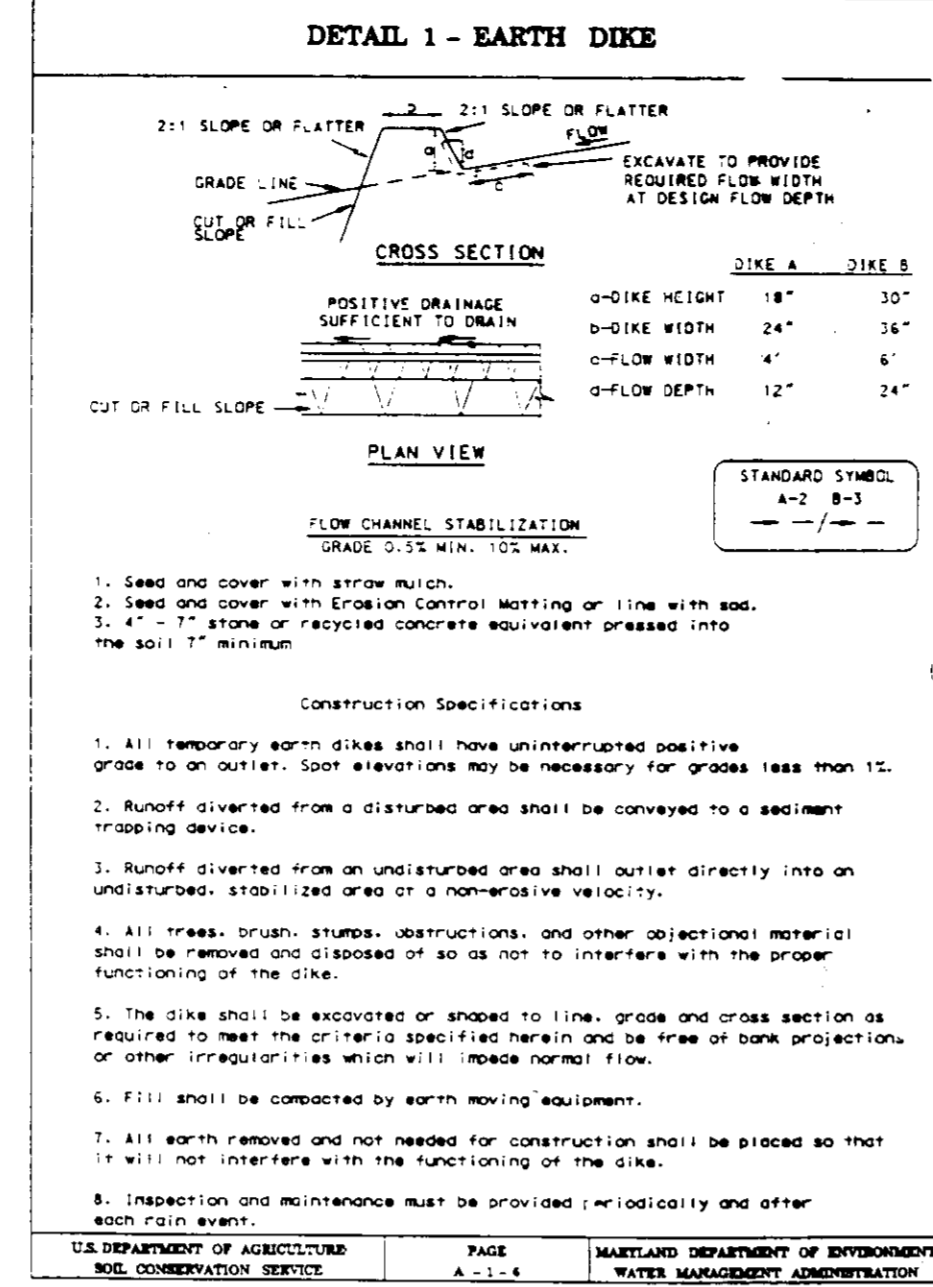
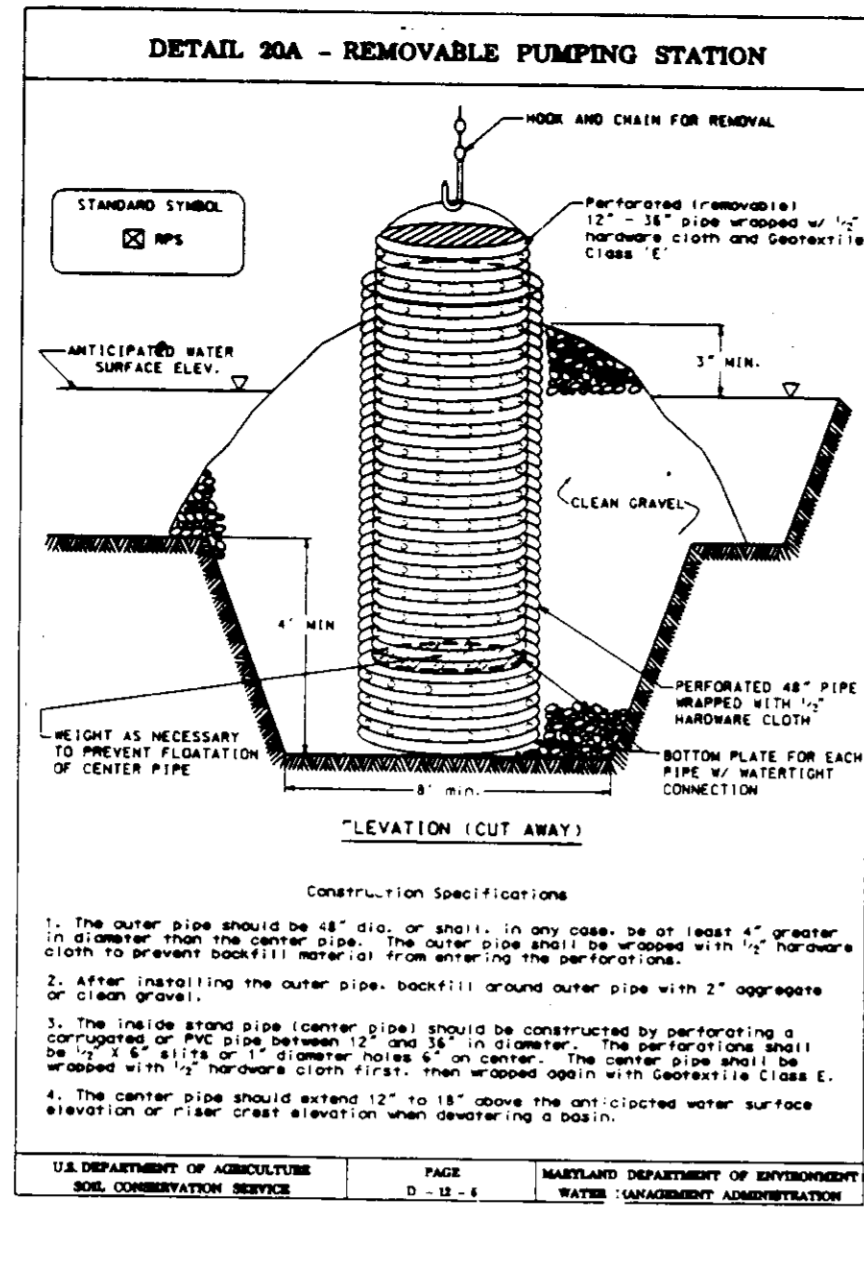
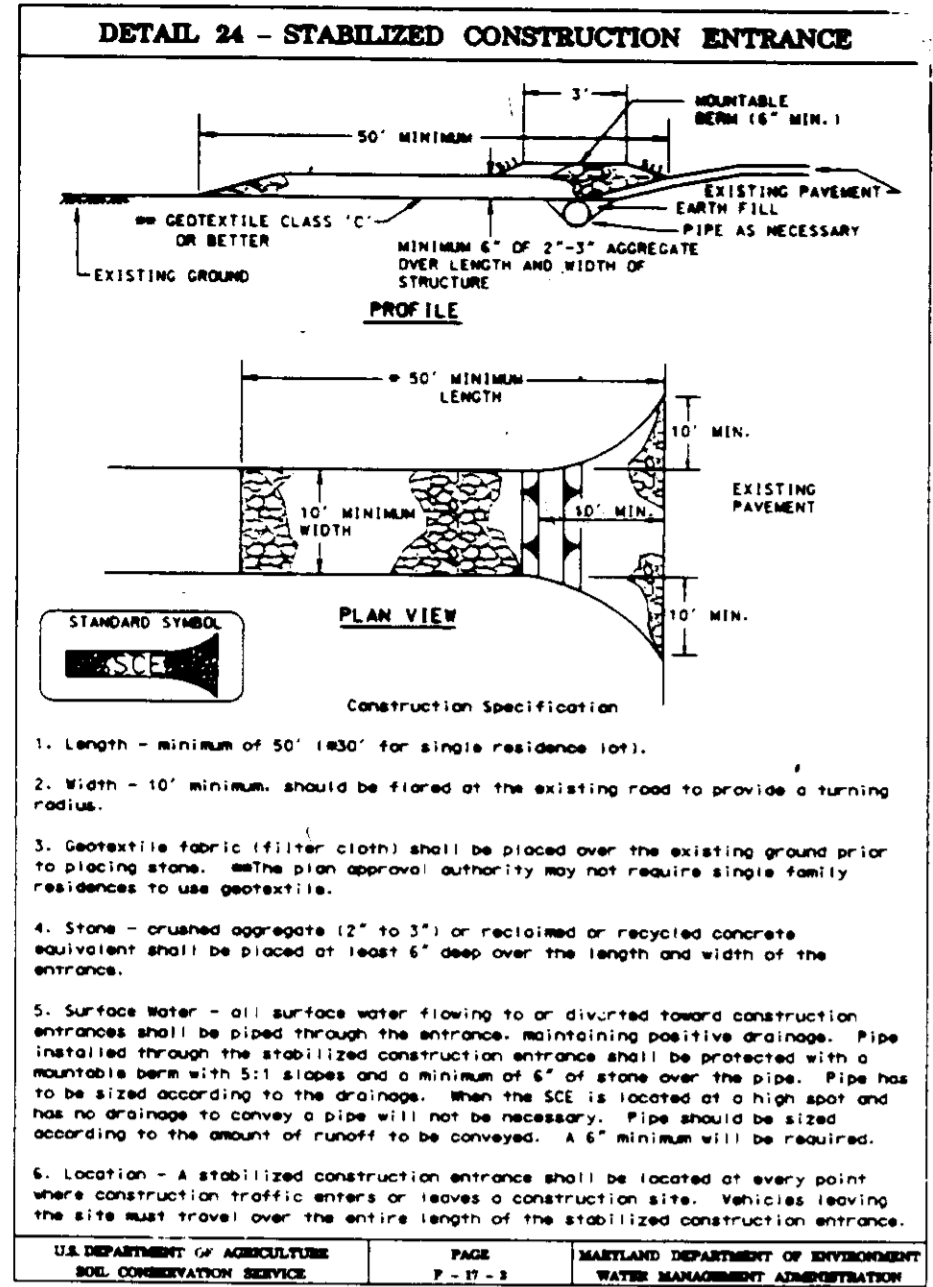
GLW GUTSCHICK LITTLE & WEBER, P.A.
 CIVIL ENGINEERS, SURVEYORS, PLANNERS, LANDSCAPE ARCHITECTS
 3909 NATIONAL DRIVE - SUITE 250 - BURTONSVILLE OFFICE PARK - BURTONSVILLE, MARYLAND 20866
 TEL: (301) 421-4024 NO. VA. (301) 989-2524 BALT. (410) 880-1820 FAX: (301) 421-4186

DATE	REVISION	BY	APPR.

PREPARED FOR:
 Howard County Public School System
 % Thomas Clark Associates
 Architects
 201 River Road, Suite 120
 Annapolis, Md. 21041
 (410) 241-8100
 (410) 241-7122

STORMWATER MANAGEMENT & STORM DRAIN DRAINAGE AREA MAP
WESTERN ELEMENTARY SCHOOL #3
 LIBER 142 FOLIO 137
 WEST FRIENDSHIP ELECTION DISTRICT No. 3
 HOWARD COUNTY, MARYLAND

SCALE	ZONING	G. L. W. FILE No.
1" = 100'	RR	96012
DATE	TAX MAP No.	SHEET
1-07-97	22	C-12 OF 16



GENERAL NOTES FOR BORING LOG

- NUMBERS IN SAMPLING DATA COLUMN (33x427) INDICATE BLOMS REQUIRED TO DRIVE A 2 INCH O.D. 3-3/8 INCH I.D. SAMPLING TUBE 6 INCHES USING A 140 POUND HAMMER FALLING 30 INCHES ACCORDING TO ASTM D-1586.
- VISUAL CLASSIFICATION OF SOIL IS IN ACCORDANCE WITH TERMINOLOGY SET FORTH IN IDENTIFICATION OF SOILS. THE SIFTED SOIL CLASSIFICATIONS SYMBOLS SHOWN ARE BASED ON VISUAL INSPECTION.
- GROUNDWATER OBSERVATIONS: THE DEPTH OF WATER BELOW GRADE WAS MEASURED AT THE TIMES INDICATED. THE DEPTHS MAY VARY WITH PRECIPITATION, POROSITY OF THE SOIL, SITE TOPOGRAPHY, ETC.
- REFUSAL AT THE SURFACE OF ROCK, BOULDER, OR OBSTRUCTION IS DEFINED AS A PENETRATION RESISTANCE OF 100 BLOMS FOR 2 INCHES PENETRATION OR LESS.
- THE BORING LOGS AND RELATED INFORMATION DEPICT SUBSURFACE CONDITIONS ONLY AT THE SPECIFIC LOCATIONS AND AT THE PARTICULAR TIME WHEN DRILLED. SOIL CONDITIONS AT OTHER LOCATIONS MAY DIFFER FROM CONDITIONS OCCURRING AT THESE BORING LOCATIONS. ALSO, THE PASSAGE OF TIME MAY RESULT IN A CHANGE IN THE SUBSURFACE SOIL AND GROUNDWATER CONDITIONS AT THESE BORING LOCATIONS.
- THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY BETWEEN SOIL AND ROCK TYPES AS DETERMINED FROM THE DRILLING AND SAMPLING OPERATION. SOME VARIATION MAY ALSO BE EXPECTED VERTICALLY BETWEEN SAMPLES TAKEN. THE SOIL PROFILE, WATER LEVEL OBSERVATIONS AND PENETRATION RESISTANCES PRESENTED ON THESE BORING LOGS HAVE BEEN MADE WITH REASONABLE CARE AND ACCURACY AND MUST BE CONSIDERED ONLY AN APPROXIMATE REPRESENTATION OF SUBSURFACE CONDITIONS TO BE ENCOUNTERED AT THE PARTICULAR LOCATION.
- KEY TO SYMBOLS AND ABBREVIATIONS:
 - 33x427 STANDARD PENETRATION TEST, ROD = ROCK QUALITY DESIGNATION
 - 3" 2" OR 3" UNDISTURBED TUBE REC-RECOVERY & LENGTH RECOVERED / LENGTH SAMPLED INCHES/SAMPLE SAMPLED
 - NX, BX OR 2 INCH O.D. ROCK CORE H.C. = NATURAL MOISTURE RUN, ASTM D-2113 (RECOVERY AND %) CONTENT
 - DO = DIT
 - NO = NO SAMPLE RECOVERY

DEPTH (FT.)	SOIL DESCRIPTION	CLASS	ELV. (FT.)	TEMP. (F.)	SAMPLING DATA	REMARKS
0.0	Topsoil 1/2 inch	M	152.0		15-1-1	Topsoil
2.0	Silt, trace sand and organic, silt, dark brown	M	152.0		15-1-1	
4.5	Silt, trace sand and mica, silt, dark brown	M	151.5		15-1-1	
7.0	Sand silt, trace rock fragments and mica, brown	M	152.0		15-1-1	
10.0	Sand silt, trace rock fragments and mica, brown	M	152.0		15-1-1	
10.0	BOTTOM OF BORING @ 10.0 FT.					

HOWARD COUNTY, MARYLAND DEPARTMENT OF PUBLIC WORKS
 APPROVED: [Signature] 2/2/97
 Chief, Bureau of Engineering

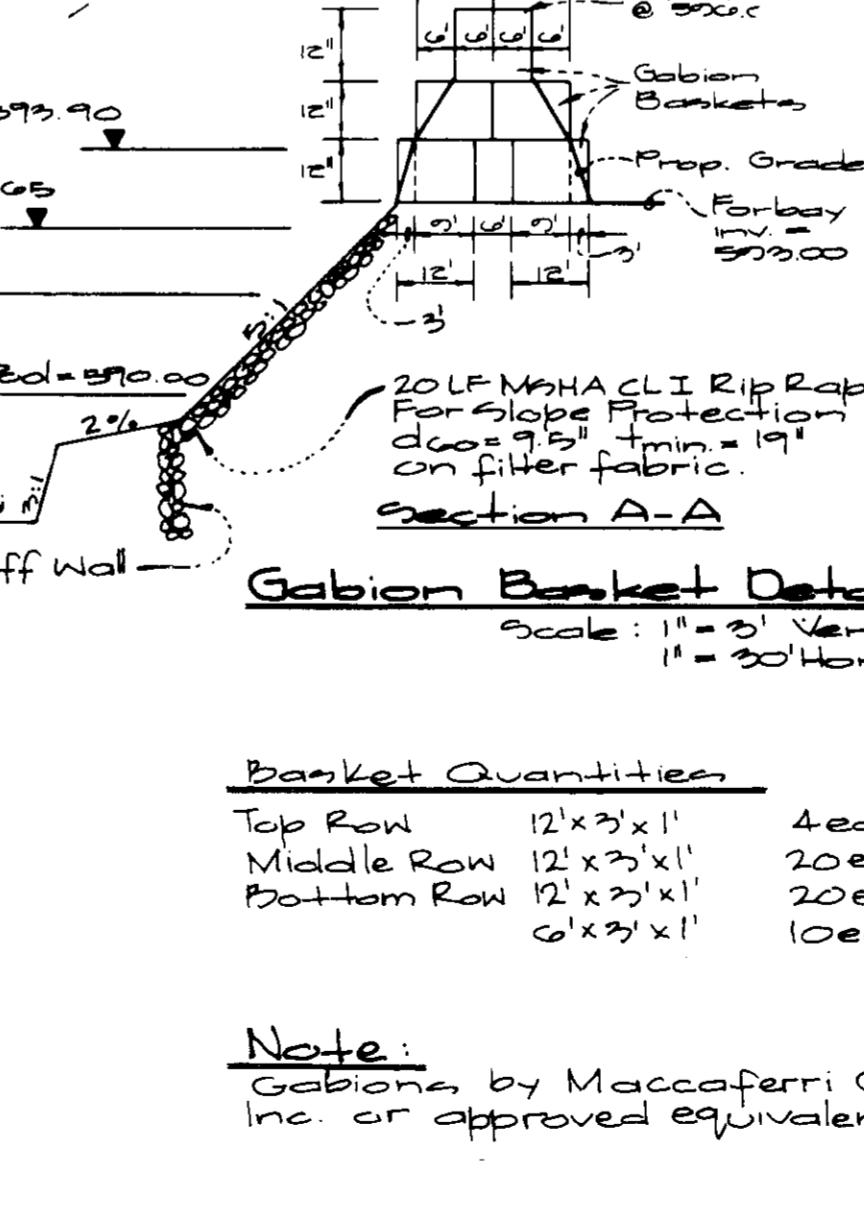
HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING
 APPROVED: [Signature] 2/6/97
 Chief, Division of Land Development

ENGINEER'S CERTIFICATE
 I certify that this plan for pond construction, erosion and sediment control represents a practical and workable plan based on my personal knowledge of the site conditions. This plan was prepared in accordance with the requirements of the Howard Soil Conservation District. I have notified the developer that he/she must engage a registered professional engineer to supervise pond construction and provide the Howard Soil Conservation District with an "as-built" plan of the pond within 30 days of completion.

[Signature] 10/22/96
 Date

DEVELOPER/BUILDER'S CERTIFICATE
 I/We certify that all development and/or construction will be done according to these plans, 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 shall engage a registered Professional Engineer to supervise pond construction and provide the Howard Soil Conservation District with an "as-built" plan of the pond within 30 days of completion. I also authorize on-site inspections by the Howard Soil Conservation District.

[Signature] 2-23-97
 Date



DEPTH (FT.)	SOIL DESCRIPTION	CLASS	ELV. (FT.)	TEMP. (F.)	SAMPLING DATA	REMARKS
0.0	Topsoil 1/2 inch	M	152.0		15-1-1	Topsoil
2.0	Silt, trace sand, mica, dark brown	M	152.0		15-1-1	
5.0	Silt, trace sand, mica, dark brown	M	151.5		15-1-1	
10.0	Sand silt, trace rock fragments and mica, brown	M	152.0		15-1-1	
10.0	BOTTOM OF BORING @ 10.0 FT.					

DEPTH (FT.)	SOIL DESCRIPTION	CLASS	ELV. (FT.)	TEMP. (F.)	SAMPLING DATA	REMARKS
0.0	Topsoil 1/2 inch	M	152.0		15-1-1	Topsoil
2.0	Silt, trace sand, mica, dark brown	M	152.0		15-1-1	
5.0	Silt, trace sand, mica, dark brown	M	151.5		15-1-1	
10.0	Sand silt, trace rock fragments and mica, brown	M	152.0		15-1-1	
10.0	BOTTOM OF BORING @ 10.0 FT.					

GLW GUTSCHICK LITTLE & WEBER, P.A.
 CIVIL ENGINEERS, SURVEYORS, PLANNERS, LANDSCAPE ARCHITECTS
 3909 NATIONAL DRIVE - SUITE 250 BURTONSVILLE OFFICE PARK - BURTONSVILLE, MD 20866
 TELEPHONE (301)421-4024 NO VA (301)989-2524 BALTO (301)880-1820 FAX (301)421-4186

DATE	REVISION	BY	APP'R.

PREPARED FOR:
HOWARD COUNTY PUBLIC SCHOOL SYSTEM
 5800 ROUTE 100
 ELLICOTT CITY, MARYLAND 21043
 PHONE: (410) 313-6005

Sediment & Erosion Control Details
WESTERN ELEMENTARY SCHOOL No. 3
 BEST FRIENDSHIP ELECTION DISTRICT No. 3
 HOWARD COUNTY, MARYLAND

DES.	SCALE	ZONING	G.L.W. FILE No.
		RR	90012
DRN.	DATE	TAX MAP No.	SHEET
	1-02-97	22	C-11
CHK.			
			of 16

SDP 9746

POND CONSTRUCTION SPECIFICATIONS

These specifications are appropriate to all ponds within the scope of the Standard for practice MD-37B. All references to ASTM and AASHTO specifications apply to the most recent version.

Site Preparation

Areas designated for borrow areas, embankment, and structural works shall be cleared, grubbed and stripped of topsoil. All trees, vegetation, roots and other objectionable material shall be removed. Channel banks and sharp breaks shall be sloped to no steeper than 1:1.

Areas to be covered by the reservoir will be cleared of all trees, brush, logs, fences, rubbish and other objectionable material unless otherwise designated on the plans. Trees, brush and stumps shall be cut approximately level with the ground surface. For dry stormwater management ponds, a minimum of a 50 foot radius around the inlet structure shall be cleared.

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

Earth Fill

Material - The fill material shall be taken from approved designated borrow areas. It shall be free of roots, stumps, wood, rubbish, stones greater than 6", frozen or other objectionable materials. Fill material for the center of the embankment and cut off trench shall conform to Unified Soil Classification CC, SC, CH or CL. Consideration may be given to the use of other materials in the embankment if design and construction are supervised by a geotechnical engineer.

Placement - Area on which fill is to be placed shall be scarified prior to placement of fill. Fill materials shall be placed in maximum 8 inch thick (before compaction) layers which are to be continuous over the entire length of the fill. The most permeable borrow material shall be placed in the downstream portions of the embankment. The principal spillway must be installed concurrently with fill placement and not excavated in to the embankment.

Compaction - The movement of the hauling and spreading equipment over the fill shall be controlled so that the entire surface of each lift shall be traversed by not less than one tread track of the equipment or compaction shall be achieved by a minimum of four complete passes of a sheepsfoot, rubber tread or vibratory roller. Fill material shall contain sufficient moisture such that the required degree of compaction will be obtained with the equipment used. The fill material shall contain sufficient moisture so that if formed into a ball it will not crumble yet not be so wet that water can be squeezed out.

*Where a minimum required density is specified, it shall not be less than 95% of maximum dry density with a moisture content within ±2 % of the optimum. Each layer of fill shall be compacted as necessary to obtain that density, and is to be certified by the Engineer at the time of construction. All compaction is to be determined by AASHTO Method T-99.

Cut Off Trench - The cutoff trench shall be excavated into impervious material along or parallel to the centerline of the embankment as shown on the plans. The bottom width of the trench shall be governed by the equipment used for excavation, with the minimum width being four feet. The depth shall be at least four feet below existing grade or as shown on the plans. The side slopes of the trench shall be 1 to 1 or flatter. The backfill shall be compacted with construction equipment, rollers, or hand tampers to assure maximum density and minimum permeability.

Structure Backfill

Backfill adjacent to pipes or structures shall be of the type and quality conforming to that specified for the adjoining fill material. The fill shall be placed in horizontal layers not to exceed four inches in thickness and compacted by hand tampers or other manually directed compaction equipment. The material needs to fill completely all spaces under and adjacent to the pipe. At no time during the backfilling operation shall driven equipment be allowed to operate closer than four feet, measured horizontally, to any part of a structure. Under no circumstances shall equipment be driven over any part of a concrete structure or pipe, unless there is a compacted fill of 24" or greater over the structure or pipe.

*Following Clearing, Grubbing and Removal of Top Soil, the Fill Subgrades should be proof rolled with a loaded 10-ton dump truck or equivalent under the observation of the Geotechnical Engineer.

Note: Pond Construction Specs. refer to SWM Pond #1 (a.k.a. Sediment Control Basin #1) only. Refer to Project Specifications for grading and concrete specifications for the rest of the site.

Pipe Conduits

All pipes shall be circular in cross section.

Corrugated Metal Pipe - All of the following criteria shall apply for corrugated metal pipe:

- Materials - (Steel Pipe) - This pipe and its appurtenances shall be galvanized and fully bituminous coated and shall conform to the requirements of AASHTO Specification M-190 Type A with watertight coupling bands. Any bituminous coating damaged or otherwise removed shall be replaced with cold applied bituminous coating compound. Steel pipes with polymeric coatings shall have a minimum coating thickness of 0.01 inch (10 mil) on both sides of the pipe. The following coatings or an approved equal may be used: Nexon, Plasti-Cote, Blac-Klad, and Beth-Cu-Loy. Coated corrugated steel pipe shall meet the requirements of AASHTO M-245 and M-246.

Materials - (Aluminum Coated Steel Pipe) - This pipe and its appurtenances shall conform to the requirements of AASHTO Specification M-274 with watertight coupling bands or flanges. Any aluminum coating damaged or otherwise removed shall be replaced with cold applied bituminous coating compound.

Material - (Aluminum Pipe) - This pipe and its appurtenances shall conform to the requirements of AASHTO Specification M-196 or M-211 with watertight coupling bands or flanges. Aluminum surfaces that are to be in contact with concrete shall be painted with one coat of zinc chromate primer. Hot dip galvanized bolts may be used for connections. The pH of the surrounding soils shall be between 4 and 9.

- Coupling bands, anti-seep collars, and sections, etc., must be composed of the same material as the pipe. Metals must be insulated from dissimilar materials with use of rubber or plastic insulating materials at least 24 mils in thickness.

- Connections - All connections with pipes must be completely watertight. The drain pipe or barrel connection to the riser shall be welded all around when the pipe & riser are metal. Anti-seep collars shall be connected to the pipe in such a manner as to be completely watertight. Dimple bands are not considered to be watertight.

All connections shall use a rubber or neoprene gasket when joining pipe sections. The end of each pipe shall be re-rolled an adequate number of corrugations to accommodate the band width. The following type connections are acceptable for pipes less than 24" in diameter: flanges on both ends of the pipe, a 12" wide standard lap type band with 12" wide by 3/8" thick closed cell circular neoprene gasket; and a 12" wide huggo type band with 0-rings gaskets having a minimum diameter of 1/2" greater than the corrugation depth. Pipes 24" in diameter and larger shall be connected by a 24" long annular corrugated band using rods and lugs. A 12" wide by 3/8" thick closed cell circular neoprene gasket will be installed on the end of each pipe for a total of 24".

Helically corrugated pipe shall have either continuously welded seams or have lock seams.

- Bedding - The pipe shall be firmly and uniformly bedded throughout its entire length. Where rock or soft, spongy or other unstable soil is encountered, all such material shall be removed and replaced with suitable earth compacted to provide adequate support.

- Backfilling shall conform to "Structure Backfill".

- Other details (anti-seep collars, valves, etc.) shall be as shown on the drawings.

Reinforced Concrete Pipe - All of the following criteria shall apply for reinforced concrete pipe:

- Materials - Reinforced concrete pipe shall have bell and spigot joints with rubber gaskets and shall equal or exceed ASTM Designation C-361.

- Bedding - All reinforced concrete pipe conduits shall be laid in a concrete bedding for their entire length. This bedding shall consist of high slump concrete placed under the pipe and up the sides of the pipe at least 10% of its outside diameter with a minimum thickness of 3 inches, or as shown on the drawings.

- Laying pipe - Bell and spigot pipe shall be placed with the bell end upstream. Joints shall be made in accordance with recommendations of the manufacturer of the material. After the joints are sealed for the entire line, the bedding shall be placed so that all spaces under the pipe are filled. Care shall be exercised to prevent any deviation from the original line and grade of the pipe. The first joint must be located within 2 feet from the riser.

- Backfilling shall conform to "Structure Backfill".
- Other details (anti-seep collars, valves, etc.) shall be shown on the drawings.

Polyvinyl Chloride (PVC) Pipe - All of the following criteria shall apply for polyvinyl chloride (PVC) pipe:

- Materials - PVC pipe shall be PVC - 1120 or PVC - 1220 conforming to ASTM D-1785 or ASTM D-2241.
- Joints and connections to anti-seep collars shall be completely watertight.
- Bedding - The pipe shall be firmly and uniformly bedded throughout its entire length. Where rock or soft, spongy or other unstable soil is encountered, all such material shall be removed and replaced with suitable earth compacted to provide adequate support.
- Backfilling shall conform to "Structure Backfill".
- Other details (anti-seep collars, valves, etc.) shall be as shown on the drawings.

Concrete

Concrete shall meet the requirements of Maryland Department of Transportation, State Highway Administration Standards Specifications for Construction and Materials, Section 608, Mix No. 3.

Rock Riprap

Rock riprap shall meet the requirements of Maryland Department of Transportation, State Highway Administration Standard Specifications for Construction and Materials, Section 905.

The rip rap shall be placed to the required thickness in one operation. The rock shall be delivered and placed in a manner that will insure the riprap in place shall be reasonably homogeneous with the larger rocks uniformly distributed and firmly in contact one to another with the smaller rocks filling the voids between the larger rocks. Filter cloth shall be placed under all riprap and shall meet the requirements of Maryland Department of Transportation, State Highway Administration Standard Specifications for Construction and Materials, Section 919.12.

Care of Water during Construction

All work on permanent structures shall be carried out in areas free from water. The Contractor shall construct and maintain all temporary dikes, levees, cofferdams, drainage channels, and stream diversions necessary to protect the areas to be occupied by the permanent works. The contractor shall also furnish, install, operate, and maintain all necessary pumping and other equipment required for removal of water from the various parts of the work and for maintaining the excavations, foundation, and other parts of the work free from water as required or directed by the engineer for constructing each part of the work. After having served their purpose, all temporary protective works shall be removed or leveled and graded to the extent required to prevent obstruction in any degree whatsoever of the flow of water to the spillway or outlet works and so as not to interfere in any way with the operation or maintenance of the structure. Stream diversions shall be maintained until the full flow can be passed through the permanent works. The removal of water from the required excavation and the foundation shall be accomplished in manner and to the extent that will maintain stability of the excavated slopes and bottom of required excavations and will allow satisfactory performance of all construction operations. During the placing and compacting of material in required excavations, the water level at the locations being refilled shall be maintained below the bottom of the excavation at such locations which may require draining the water to sumps from which the water shall be pumped.

Stabilization

All borrow areas shall be graded to provide proper drainage and left in a slightly condition. All exposed surfaces of the embankment, spillway, spoil and borrow areas, and berms shall be stabilized by seeding, liming, fertilizing and mulching in accordance with the Maryland Soil Conservation Service Standards and Specifications for Critical Area Planting (MD-342) or as shown on the accompanying drawings.

Erosion and Sediment Control

Construction operations will be carried out in such a manner that erosion will be controlled and water and air pollution minimized. State and local laws concerning pollution abatement will be followed. Construction plans shall detail erosion and sediment control measures to be employed during the construction process.

SEDIMENT CONTROL NOTES

- A minimum of 24 hours notice must be given to the Howard County Office of Inspection and Permits prior to the start of any construction. (410) 313-1855
- All vegetative and structural practices are to be installed according to the provisions of this plan and are to be in conformance with the 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL and revisions thereto.
- Following initial soil disturbance or redistribution, permanent or temporary stabilization shall be completed within: a) 7 calendar days for all perimeter sediment control structures, dikes and perimeter slopes and all slopes greater than 3:1, b) 14 days as to all other disturbed or graded areas on the project site.
- All sediment traps/basins shown must be fenced and warning signs posted around their perimeter in accordance with Vol. 1, Chapter 12, of the HOWARD COUNTY DESIGN MANUAL, Storm Drainage.
- All disturbed areas must be stabilized within the time period specified above in accordance with the 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL for permanent seedings (Sec. 51), sod (Sec. 54), temporary seedings (Sec. 50) and mulching (Sec. 52). Temporary stabilization, with mulch alone, can only be done when recommended seeding dates do not allow for proper germination and establishment of grasses.
- All sediment control structures are to remain in place and are to be maintained in operative condition until permission for their removal has been obtained from the Howard County Sediment Control Inspector.
- Site Analysis:
Total Area of Site : 75,665 Acres
Area Disturbed : 18,04± Acres
Area to be roofed or paved : 3,7± Acres
Area to be vegetatively stabilized : 14,33± Acres
Total Cut : 67,800± Cu. Yds.
Total Fill : 67,800± Cu. Yds.
Off-site waste/borrow area location:
8. Any sediment control practice which is disturbed by grading activity for placement of utilities must be repaired on the same day of disturbance.
- Additional sediment control must be provided, if deemed necessary by the Howard County DPW Sediment Control Inspector.
- On all sites with disturbed areas in excess of 2 acres, approval of the inspection agency shall be requested upon completion of installation of perimeter erosion and sediment controls, but before proceeding with any other earth disturbance or grading. Other building or grading inspection approvals may not be authorized until this initial approval by the inspection agency is made.
- Trenches for the construction of utilities is limited to 3 pipe lengths or that which shall be backfilled and stabilized within 1 working day, whichever is shorter.

PERMANENT SEEDING NOTES

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

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

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

- Preferred - Apply 2 tons per acre dolomitic limestone (92 lbs/1000 square feet) and 600 lbs per acre 10-10-10 fertilizer (14 lbs/1000 sq ft) before seeding. Harrow or disc into upper three inches of soil. At time of seeding, apply 400 lbs per acre 30-0-0 ureaform fertilizer (9 lbs/1000 sq ft).
- Acceptable - Apply 2 tons per acre dolomitic limestone (92 lbs/1000 sq ft) and 1000 lbs per acre 10-10-10 fertilizer (23 lbs/1000 sq ft) before seeding. Harrow or disc into upper three inches of soil.

Seeding: For the periods March 1 thru April 30, and August 1 thru October 15, seed with 60 lbs per acre (1.4 lbs/1000 sq ft) of Kentucky 31 Tall Fescue. For the period May 1 thru July 31, seed with 60 lbs Kentucky 31 Tall Fescue per acre and 2 lbs per acre (.05 lbs/1000 sq ft) of weeping lovegrass. During the period of October 16 thru February 28, protect site by Option (1) 2 tons per acre of well anchored straw mulch and seed as soon as possible in the spring. Option (2) Use sod. Option (3) Seed with 60 lbs/acre Kentucky 31 Tall Fescue and mulch with 2 tons/acre well anchored straw.

Mulching: Apply 1-1/2 to 2 tons per acre (70 to 90 lbs/1000 sq ft) of unrattled small grain straw immediately after seeding. Anchor mulch immediately after application using mulch anchoring tool or 218 gallons per acre (5 gal/1000 sq ft) of emulsified asphalt on flat areas. On slopes 8 feet or higher, use 348 gallons per acre (8 gal/1000 sq ft) for anchoring.

Maintenance: Inspect all seeded areas and make needed repairs, replacements and reseedings.

TEMPORARY SEEDING NOTES

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

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

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

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

Mulching: Apply 1-1/2 to 2 tons per acre (70 to 90 lbs/1000 sq ft) of unrattled small grain straw immediately after seeding. Anchor mulch immediately after application using mulch anchoring tool or 218 gal per acre (5 gal/1000 sq ft) of emulsified asphalt on flat areas. On slopes 8 ft or higher, use 348 gal per acre (8 gal/1000 sq ft) for anchoring.

Refer to the 1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL for rate and methods not covered.

Note: These seeding notes are the minimum required, for Sediment Control. Refer to Project Specifications for seeding requirements of other areas of the site.

STORMWATER MANAGEMENT FACILITY OPERATIONS AND MAINTENANCE GUIDELINES

Operations:

- Owner shall keep accurate records of inspections and maintenance type repairs. These records should also include a copy of the "as-built" plans and small pond summary sheet.
- Owner shall make a visual inspection of the facility at least twice a year. Once in the summer after the facility has been mowed and during the winter when the vegetation is inactive. Additional inspections shall be made during and after extreme rainfalls.
- During the extreme weather or rainfall events, the owner shall check for overlapping, seepage, or dam failure. In order to avoid overlapping, either place sandbags on top of the embankment or lower the water elevation by using a dewatering device.
- If a severe problem develops, the owner shall contact a Professional Engineer to assess the problem and make a suggestion to remedy the situation. The Howard Soil Conservation District or Maryland Dam Safety Division shall be contacted before major repairs are made.

Maintenance

During the semi-annual visual inspections, the following items must be checked and documented by the owner:

I. Spillways and Outlet Device

- Pipes - check for sagging, misalignment, gaps at joints, cracks, leaks, and wear along inside surface of pipes. Also remove any blockages.
- Trash Racks - inspect and replace if necessary. Actual time for removal of trash racks should be limited. Trash racks shall be painted once a year.
- Concrete Surfaces - check for cracks or any other signs of failure.
- Forebay and Spillway - check for stone & wire mesh deterioration or loss and spillway failure.
- Rip Rap Outlet - check for stone deterioration or stone loss.
- Dewatering Device - remove blockages.

II. Embankments

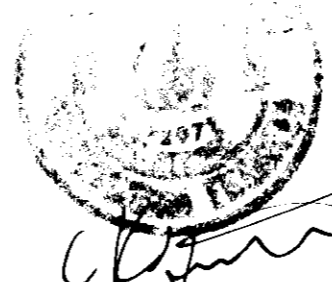
- Vegetation - proper vegetative cover is required on all embankments. The owner shall follow proper seeding specifications for reseeding.
- Trees and Brush - trees and brush shall be removed from the embankment. Stumps can be removed using silvicide.
- Mowing - mowing is necessary to control the establishment of woody growth and to maintain the vegetative cover. The embankment, a 25-foot wide (except in wetland/stream buffers) strip adjacent to the toe, upstream and downstream of the embankment, and the area within 50 feet of the control structures need to be mowed. Mowing shall be done at least once a year (mid to late summer) but may be done more often.
- Seepage - the following warning signs should be looked for when inspecting for seepage problems: cracks (longitudinal and vertical), soft spots or boggy areas on downstream embankment, seepage along downstream toe of embankment.
- Stability - large cracks, slides, sloughing and excessive settlement are signs of embankment instability and a need for repair. Repairs must be approved by Howard Soil Conservation District.
- Rodents - check for burrows, which can lead to seepage, and remove rodents when encountered.

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING

Signature: *Richard Blood* Date: 2/6/97
 Signature: *Richard Blood* Date: 2/6/97
 Signature: *Richard Blood* Date: 1/20/97

ENGINEER'S CERTIFICATE

I certify that this plan for pond construction, erosion and sediment control represents a practical and workable plan based on my personal knowledge of the site conditions. This plan was prepared in accordance with the requirements of the Howard Soil Conservation District. I have notified the developer that he/she must engage a registered professional engineer to supervise pond construction and provide the Howard Soil Conservation District with an "as-built" plan of the pond within 30 days of completion.



Signature: *Clark Jones* Date: 10/22/96

DEVELOPER'S/BUILDER'S CERTIFICATE

I/We certify that all development and/or construction will be done according to these plans, 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 shall engage a registered Professional Engineer to supervise pond construction and provide the Howard Soil Conservation District with an "as-built" plan of the pond within 30 days of completion. I also authorize periodic on-site inspections by the Howard Soil Conservation District.

Signature: *Cathleen Conley Young* Date: 10/22/96

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

Signature: *Robert J. Zihner* Date: 1/23/97

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

Signature: *Cheryl K. Jernigan* Date: 02-09-97

GUTSCHICK LITTLE & WEBER, P.A.

CIVIL ENGINEERS, SURVEYORS, PLANNERS, LANDSCAPE ARCHITECTS
 3909 NATIONAL DRIVE - SUITE 250 - BURTONSVILLE OFFICE PARK - BURTONSVILLE, MARYLAND 20866

TEL: (301) 421-4024 NO. VA: (301) 989-2524 BALT: (410) 880-1820 FAX: (301) 421-4186

PREPARED FOR:
 Howard County Public School System
 c/o Thomas Clark Associates Architects
 2201 Riva Road, Suite 120
 Annapolis, Md. 21401
 (410) 261-0700
 (410) 261-7722

Stormwater Management and Sediment Control Notes

Western Elementary School No. 3

West Friendship Election District No. 3

Howard County, Maryland

SCALE	ZONING	G. L. W. FILE No.
	RR	20012
DATE	TAX MAP No.	SHEET
1-02-97	22	C-10 OF 15

DEVELOPER'S/BUILDER'S CERTIFICATE
 I/We certify that all development and/or construction will be done according to these plans, and that any responsible personnel involved in the construction project will have a Certificate of Attendance of a Maryland Department of the Environment Approved Training Program for the Control of Sediment and Erosion before beginning the project. I shall engage a registered Professional Engineer to supervise pond construction and provide the Howard Soil Conservation District with an "as-built" plan of the pond within 30 days of completion. I also authorize periodic on-site inspections by the Howard Soil Conservation District.

These plans have been reviewed for the Howard Soil Conservation District and meet the technical requirements for small pond construction, soil erosion and sediment control.
Cathleen Conroy Young
 Natural Resources Conservation Service
 Date: 10/22/96

ENGINEER'S CERTIFICATE
 I certify that this plan for pond construction, erosion and sediment control represents a practical and workable plan based on my personal knowledge of the site conditions. This plan was prepared in accordance with the requirements of the Howard Soil Conservation District. I have notified the developer that he/she must engage a registered professional engineer to supervise pond construction and provide the Howard Soil Conservation District with an "as-built" plan of the pond within 30 days of completion.
Robert W. Ziehn
 Date: 1/23/97

Cathleen Conroy Young 10/22/96 *Robert W. Ziehn* 1/23/97
 Signature of Developer/Builder Date Howard Soil Conservation District Date

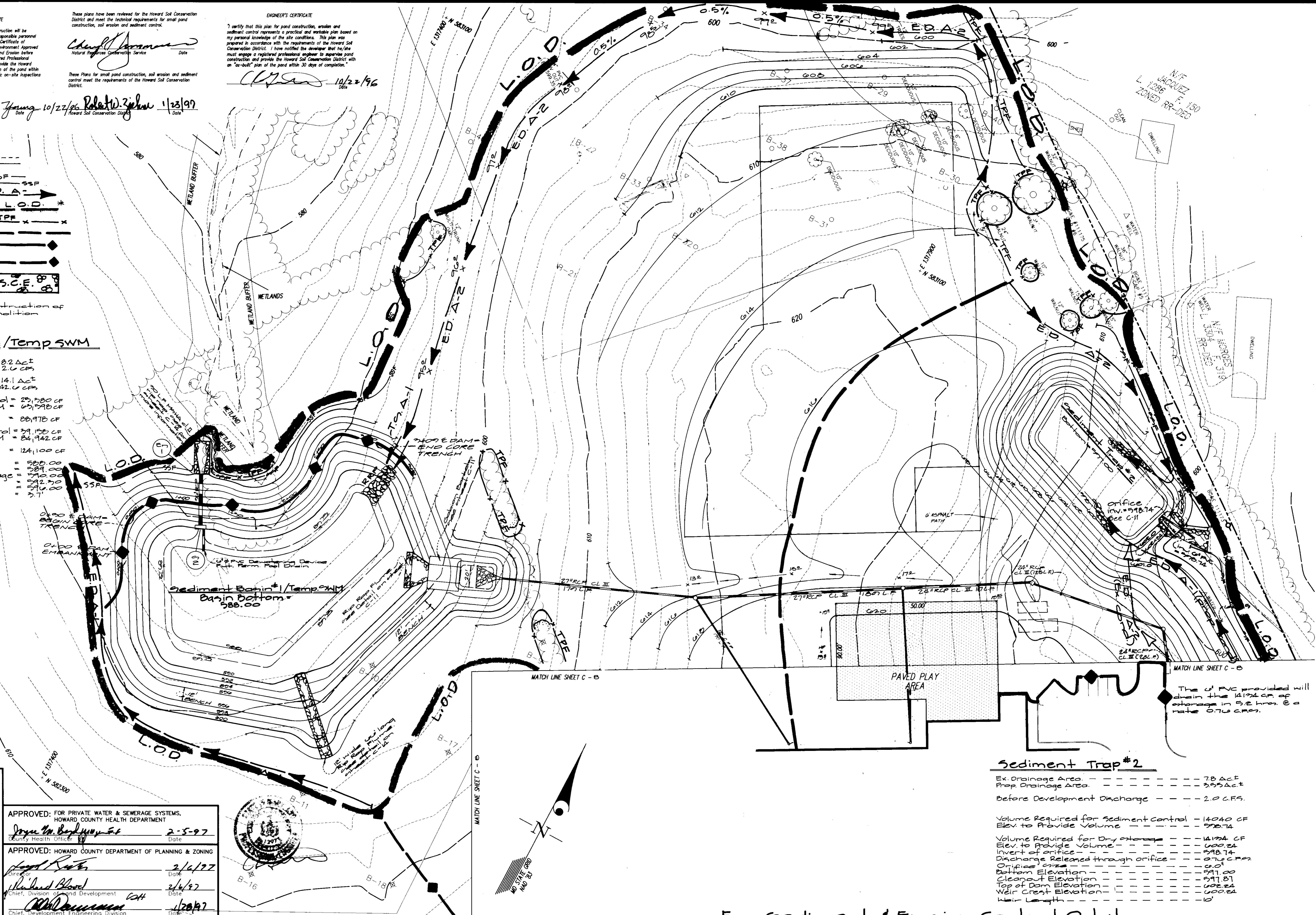
Legend

- Ex. Contour: --- G12 ---
- Prop. Contour: --- G12 ---
- Silt Fence: --- SF ---
- Super Silt Fence: --- SSF ---
- Earth Dike: --- E.D.A. ---
- Limit of Disturbance: --- L.O.D. ---*
- Tree Protection Fence: --- TPF ---
- Before Conditions D.A. ---
- After Conditions D.A. ---
- Combined Before & After Conditions D.A. ---
- Stabilized Construction Entrance: --- S.C.E. ---

* Does not include construction of electric fields or demarcation.

Sediment Basin #1/Temp SWM

Before Development DA = 82.4 ac
 R2 = 2.6 cfs
 After Development DA = 14.1 ac
 R2 = 42.0 cfs
 Storage Req. for Sed. Control = 25,580 cf
 Storage Req. for Temp. SWM = 63,590 cf
 Total = 89,170 cf
 Storage Prov. for Sed. Control = 39,150 cf
 Storage Prov. for Temp. SWM = 84,942 cf
 Total = 124,100 cf
 Bottom Elevation = 580.00
 Cleanup Elevation = 587.00
 Limit of Sed. Control Storage = 590.00
 Limit of Temp. SWM Storage = 592.50
 Top of Dam Elevation = 596.00
 Freeboard = 3.5'



Sediment Trap #2

Ex. Drainage Area: --- 7.8 ac
 Prop. Drainage Area: --- 355 ac
 Before Development Discharge: --- 2.0 cfs
 Volume Required for Sediment Control: --- 14040 cf
 Elev. to Provide Volume: --- 590.74
 Volume Required for Dry Storage: --- 14124 cf
 Elev. to Provide Volume: --- 600.24
 Invert of orifice: --- 598.74
 Discharge Released through orifice: --- 0.76 cfs
 Orifice Size: --- 0.0'
 Bottom Elevation: --- 591.00
 Cleanup Elevation: --- 591.51
 Top of Dam Elevation: --- 600.24
 Weir Crest Elevation: --- 600.24
 Weir Length: --- 10'

APPROVED: FOR PRIVATE WATER & SEWERAGE SYSTEMS,
 HOWARD COUNTY HEALTH DEPARTMENT
Joyce M. Redman 2-5-97
 County Health Officer Date
 APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING
Frank R. ... 2/6/97
 Director Date
Richard Blood 2/6/97
 Chief, Division of Land Development Date
W. D. ... 1/20/97
 Chief, Development Engineering Division Date

GLW GUTSCHICK LITTLE & WEBER, P.A.
 CIVIL ENGINEERS, SURVEYORS, PLANNERS, LANDSCAPE ARCHITECTS
 3909 NATIONAL DRIVE - SUITE 250 - BURTONSVILLE OFFICE PARK - BURTONSVILLE, MARYLAND 20866
 TEL: (301) 421-4024 NO. VA.: (301) 989-2524 BALT: (410) 880-1820 FAX: (301) 421-4186 DES. DRN. S&G CHK.

DATE	REVISION	BY	APPR.

PREPARED FOR:
 HOWARD COUNTY PUBLIC SCHOOL SYSTEM
 10910 ROUTE 108
 ELLICOTT CITY, MARYLAND 21043
 PHONE: (410) 313-6805

For Sediment & Erosion Control Only!

Sediment Control Plan
WESTERN ELEMENTARY SCHOOL No. 3
 WEST FRIENDSHIP ELECTION DISTRICT No. 3
 HOWARD COUNTY, MARYLAND

SCALE	ZONING	G. L. W. FILE NO.
1" = 40'	RR	96012
DATE	TAX MAP No.	SHEET
1-02-97	22	C-2 OF 16

ENGINEER'S CERTIFICATE
 I certify that this plan for pond construction, erosion and sediment control represents a practical and workable plan based on my personal knowledge of the site conditions. This plan was prepared in accordance with the requirements of the Howard Soil Conservation District. I have notified the developer that he/she must engage a registered professional engineer to supervise pond construction and provide the Howard Soil Conservation District with an "as-built" plan of the pond within 30 days of completion.

[Signature] 10-22-96
 Date

DEVELOPER'S/BUILDER'S CERTIFICATE
 I/We certify that all development and/or construction will be done according to these plans, and that any responsible personnel involved in the construction project will have a Certificate of Attendance of a Maryland Department of the Environment Approved Training Program for the Control of Sediment and Erosion before beginning the project. I shall engage a registered Professional Engineer to supervise pond construction and provide the Howard Soil Conservation District with an "as-built" plan of the pond within 30 days of completion. I also authorize periodic on-site inspections by the Howard Soil Conservation District.

Cathleen Conley Young 10/22/96
 Signature of Developer/Builder Date

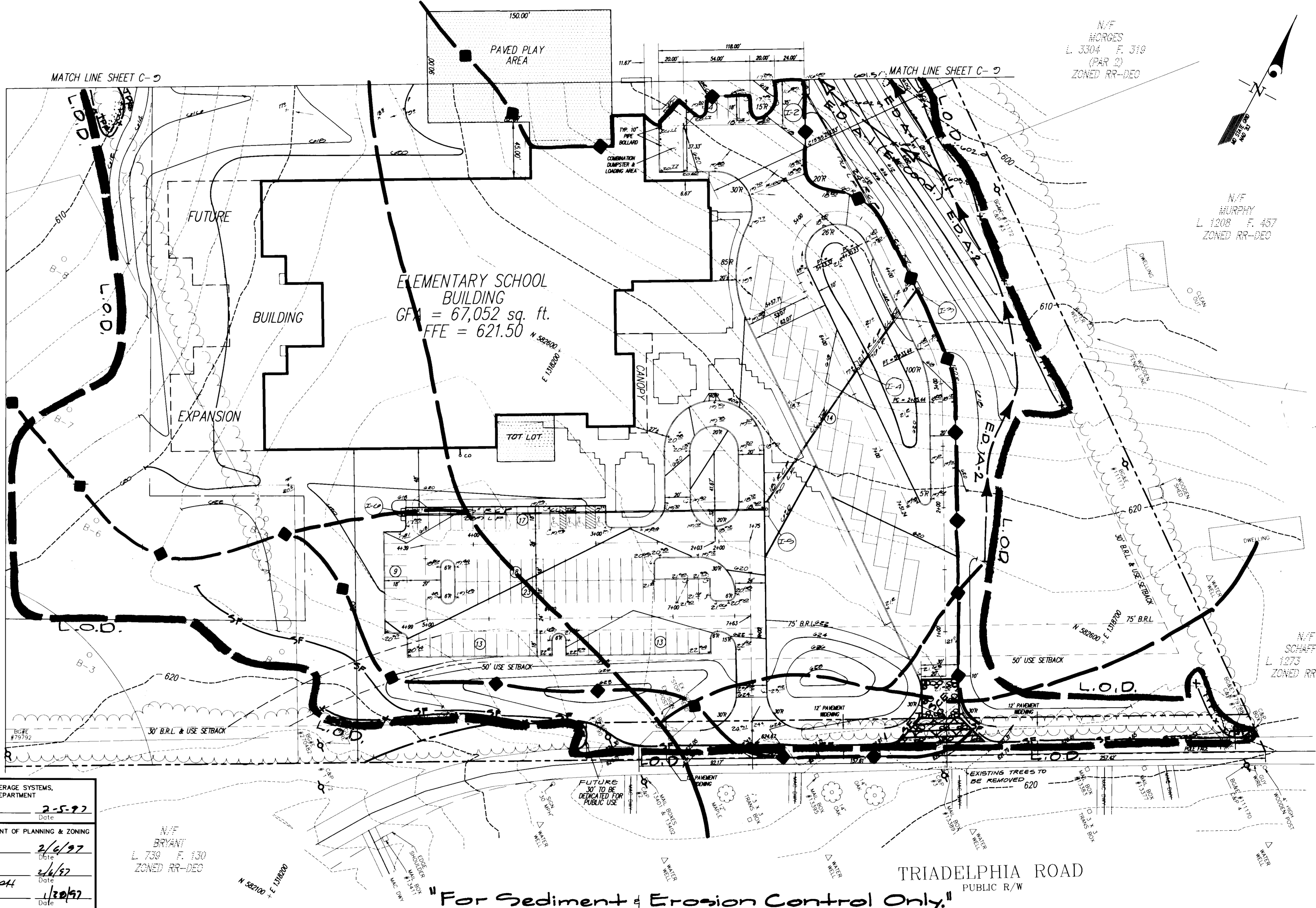
These Plans for small pond construction, soil erosion and sediment control meet the requirements of the Howard Soil Conservation District.
Robert Zielinski 1/23/97
 Howard Soil Conservation District Date

These plans have been reviewed for the Howard Soil Conservation District and meet the technical requirements for small pond construction, soil erosion and sediment control.
Cheryl Jaramone 01-23-97
 Natural Resources Conservation Service Date

Legend

- Ex. Contour: --- 0.2 ---
- Prop. Contour: --- 0.2 ---
- Silt Fence: --- SF --- SF
- Super Silt Fence: --- SFF --- SFF
- Earth Dike: --- E.D.A. ---
- Limit of Disturbance: --- L.O.D. ---
- Tree Protection Fence: --- TPF ---
- Before Conditions O.A. ---
- After Conditions O.A. ---
- Combined Before & After Conditions O.A. ---
- Stabilized Construction Entrance: --- S.C.E. ---

* Does not include construction of septic fields or demolition.



N/F MORGES
 L. 3304 F. 319
 (PAR 2)
 ZONED RR-DEO

N/F MURPHY
 L. 1208 F. 457
 ZONED RR-DEO

N/F SCHAFER
 L. 1273 F. 752
 ZONED RR-DEO

N/F BRYANT
 L. 729 F. 130
 ZONED RR-DEO

APPROVED: FOR PRIVATE WATER & SEWERAGE SYSTEMS,
 HOWARD COUNTY HEALTH DEPARTMENT
[Signature] 2-5-97
 County Health Officer Date

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING
[Signature] 2/6/97
 Date

[Signature] 2/6/97
 Chief, Division of Land Development Date

[Signature] 1/20/97
 Chief, Development Engineering Division Date

"For Sediment & Erosion Control Only!"

TRIADELPHIA ROAD
 PUBLIC R/W

GLW GUTSCHICK LITTLE & WEBER, P.A.
 CIVIL ENGINEERS, SURVEYORS, PLANNERS, LANDSCAPE ARCHITECTS
 3909 NATIONAL DRIVE - SUITE 250 - BURTONSVILLE OFFICE PARK - BURTONSVILLE, MARYLAND 20866

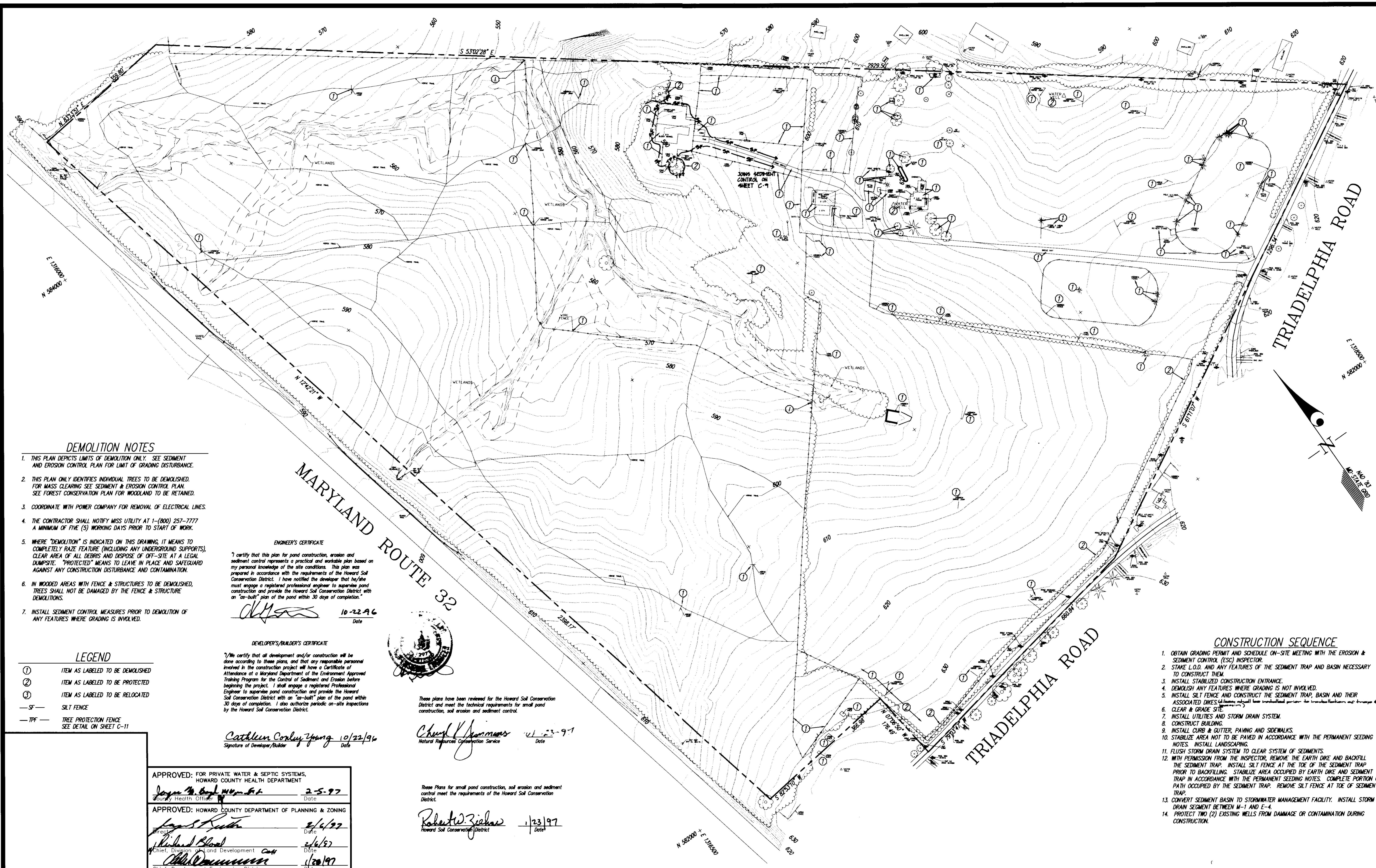
PREPARED FOR:
 HOWARD COUNTY PUBLIC SCHOOL SYSTEM
 10910 ROUTE 108
 ELICOTT CITY, MARYLAND 21043
 PHONE: (410) 313-6805

Sediment Control Plan
WESTERN ELEMENTARY SCHOOL No. 3

SCALE 1" = 40'	ZONING RR	G. L. W. FILE No. 96012
DATE 1-02-97	TAX MAP No. 22	SHEET C-8 of 16

DATE	REVISION	BY	APPR.

WEST FRIENDSHIP ELECTION DISTRICT No. 3
 HOWARD COUNTY, MARYLAND



DEMOLITION NOTES

1. THIS PLAN DEPICTS LIMITS OF DEMOLITION ONLY. SEE SEDIMENT AND EROSION CONTROL PLAN FOR LIMIT OF GRADING DISTURBANCE.
2. THIS PLAN ONLY IDENTIFIES INDIVIDUAL TREES TO BE DEMOLISHED. FOR MASS CLEARING SEE SEDIMENT & EROSION CONTROL PLAN. SEE FOREST CONSERVATION PLAN FOR WOODLAND TO BE RETAINED.
3. COORDINATE WITH POWER COMPANY FOR REMOVAL OF ELECTRICAL LINES.
4. THE CONTRACTOR SHALL NOTIFY MISS UTILITY AT 1-(800) 257-7777 A MINIMUM OF FIVE (5) WORKING DAYS PRIOR TO START OF WORK.
5. WHERE "DEMOLITION" IS INDICATED ON THIS DRAWING, IT MEANS TO COMPLETELY RAZE FEATURE (INCLUDING ANY UNDERGROUND SUPPORTS), CLEAR AREA OF ALL DEBRIS AND DISPOSE OF OFF-SITE AT A LEGAL DUMP SITE. "PROTECTED" MEANS TO LEAVE IN PLACE AND SAFEGUARD AGAINST ANY CONSTRUCTION DISTURBANCE AND CONTAMINATION.
6. IN WOODED AREAS WITH FENCE & STRUCTURES TO BE DEMOLISHED, TREES SHALL NOT BE DAMAGED BY THE FENCE & STRUCTURE DEMOLITIONS.
7. INSTALL SEDIMENT CONTROL MEASURES PRIOR TO DEMOLITION OF ANY FEATURES WHERE GRADING IS INVOLVED.

ENGINEER'S CERTIFICATE

I certify that this plan for pond construction, erosion and sediment control represents a practical and workable plan based on my personal knowledge of the site conditions. This plan was prepared in accordance with the requirements of the Howard Soil Conservation District. I have notified the developer that he/she must engage a registered professional engineer to supervise pond construction and provide the Howard Soil Conservation District with an "as-built" plan of the pond within 30 days of completion.

OK 10-22-96
Date

DEVELOPER'S/BUILDER'S CERTIFICATE

I/We certify that all development and/or construction will be done according to these plans, 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 shall engage a registered Professional Engineer to supervise pond construction and provide the Howard Soil Conservation District with an "as-built" plan of the pond within 30 days of completion. I also authorize periodic on-site inspections by the Howard Soil Conservation District.

Cathleen Corley Young 10/22/96
Signature of Developer/Builder Date

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

Cheryl V. Jannone 01-23-97
Natural Resources Conservation Service Date

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

Robert W. Ziebar 1/23/97
Howard Soil Conservation District Date

APPROVED: FOR PRIVATE WATER & SEPTIC SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT	
<i>Joyce M. Boyd</i>	2-5-97 Date
APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING	
<i>James S. Kuhn</i>	2/4/97 Date
<i>Richard Blood</i>	2/6/97 Date
<i>Michael D. ...</i>	1/20/97 Date

CONSTRUCTION SEQUENCE

1. OBTAIN GRADING PERMIT AND SCHEDULE ON-SITE MEETING WITH THE EROSION & SEDIMENT CONTROL (ESC) INSPECTOR.
2. STAKE L.O.D. AND ANY FEATURES OF THE SEDIMENT TRAP AND BASIN NECESSARY TO CONSTRUCT THEM.
3. INSTALL STABILIZED CONSTRUCTION ENTRANCE.
4. DEMOLISH ANY FEATURES WHERE GRADING IS NOT INVOLVED.
5. INSTALL SILT FENCE AND CONSTRUCT THE SEDIMENT TRAP, BASIN AND THEIR ASSOCIATED DIKES. *Diagrams should be installed prior to installation of traps & basins.*
6. CLEAR & GRADE SITE.
7. INSTALL UTILITIES AND STORM DRAIN SYSTEM.
8. CONSTRUCT BUILDING.
9. INSTALL CURB & GUTTER, PAVING AND SIDEWALKS.
10. STABILIZE AREA NOT TO BE PAVED IN ACCORDANCE WITH THE PERMANENT SEEDING NOTES. INSTALL LANDSCAPING.
11. FLUSH STORM DRAIN SYSTEM TO CLEAR SYSTEM OF SEDIMENTS.
12. WITH PERMISSION FROM THE INSPECTOR, REMOVE THE EARTH DIKE AND BACKFILL THE SEDIMENT TRAP. INSTALL SILT FENCE AT THE TOE OF THE SEDIMENT TRAP PRIOR TO BACKFILLING. STABILIZE AREA OCCUPIED BY EARTH DIKE AND SEDIMENT TRAP IN ACCORDANCE WITH THE PERMANENT SEEDING NOTES. COMPLETE PORTION OF PATH OCCUPIED BY THE SEDIMENT TRAP. REMOVE SILT FENCE AT TOE OF SEDIMENT TRAP.
13. CONVERT SEDIMENT BASIN TO STORMWATER MANAGEMENT FACILITY. INSTALL STORM DRAIN SEGMENT BETWEEN M-1 AND E-4.
14. PROTECT TWO (2) EXISTING WELLS FROM DAMAGE OR CONTAMINATION DURING CONSTRUCTION.

GLW GUTSCHICK LITTLE & WEBER, P.A.
 CIVIL ENGINEERS, SURVEYORS, PLANNERS, LANDSCAPE ARCHITECTS
 3909 NATIONAL DRIVE - SUITE 250 - BURTONSVILLE OFFICE PARK - BURTONSVILLE, MARYLAND 20866
 TEL: (301) 421-4024 MO. V.A.: (301) 989-2524 BALT.: (410) 880-1820 FAX: (301) 421-4166 DES. DRN. MEG CHK.

DATE	REVISION	BY	APP'R.

PREPARED FOR:
 HOWARD COUNTY PUBLIC SCHOOL SYSTEM
 10910 ROUTE 108
 ELLICOTT CITY, MARYLAND 21043
 PHONE: (410) 313-6805

DEMOLITION PLAN
WESTERN ELEMENTARY SCHOOL #3
 WEST FRIENDSHIP ELECTION DISTRICT No. 3
 HOWARD COUNTY, MARYLAND

SCALE 1" = 100'	ZONING RR	G. L. W. FILE No. 96012
DATE 1-02-97	TAX MAP No. 22	SHEET C-7 OF 15

PLANT LIST

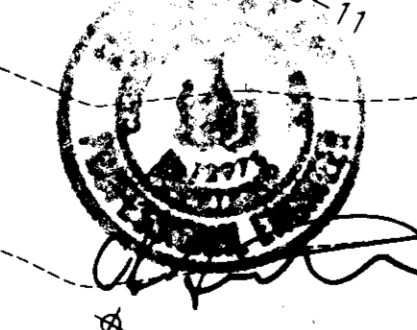
KEY QTY	NAME - BOTANICAL/COMMON	SIZE	COMMENT
DECIDUOUS TREES			
AR 26	Acer rubrum "October Glory" / October Glory Red Maple	2 1/2" Cal. 12-14' H.	B&B P.P. 2116
CC 5	Carpinus caroliniana / Ironwood	1 1/2" Cal. 6-7' H.	B&B M&M
PC 18	Fraxinus corymbosa "Thundershout" / Purple Leaf Flowering Plum	1 3/4" Cal. 8-10' H.	B&B
QP 13	Quercus pallidifolia / Pin Oak	2 1/2" Cal. 12-14' H.	B&B
ZS 1	Zelkova serrata "Green Vase" / Green Vase Zelkova	2 1/2" Cal. 12-14' H.	B&B P.P. 5000
EVERGREEN TREES			
PA 27	Picea abies/Norway Spruce	6-8' H.	B&B
PS 16	Picea strobus/White Pine	6-8' H.	B&B
SHRUBS			
EP 24	Euonymus petersii "Pauli" / Pauli Euonymus	24-30" H.	B&B
JAR 74	Juniperus horizontalis compacta / Andora Juniper	18-24" H.	Cont.
JS 16	Juniperus chinensis "Sargentii" / Sargent's Juniper	18-24" H.	Cont.
PF 14	Photinia fraseri / Red Tipped Photinia	2-3' H.	B&B 5' O.C.

* QUANTITY DOES NOT INCLUDE ADDITIONAL PLANTS FOR PLANTING SHOWN IN DETAIL 'A' ON SHEET C-5

SWM POND NOTES
 SWM POND #1 IS A QUANTITY AND QUALITY CONTROL POND. IT IS A CLASS "A" STRUCTURE AND EMPLOYS A RETENTION POOL FOR QUALITY CONTROL.
 POND BOTTOM SHOWN IS FINAL GRADE AFTER DEVELOPMENT IS COMPLETE. FOR CONFIGURATION DURING CONSTRUCTION REFER TO EROSION CONTROL PLANS.

THIS PLAN FOR LANDSCAPING PURPOSES ONLY!
 (DO NOT USE FOR ANY OTHER SITE IMPROVEMENTS)

APPROVED: FOR PRIVATE WATER & SEWERAGE SYSTEMS,
 HOWARD COUNTY HEALTH DEPARTMENT
 County Health Officer: *[Signature]* Date: 2-5-97
 APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING
 Director: *[Signature]* Date: 2/4/97
 Chief, Division of Land Development: *[Signature]* Date: 2/6/97
 Chief, Development Engineering Division: *[Signature]* Date: 1/28/97



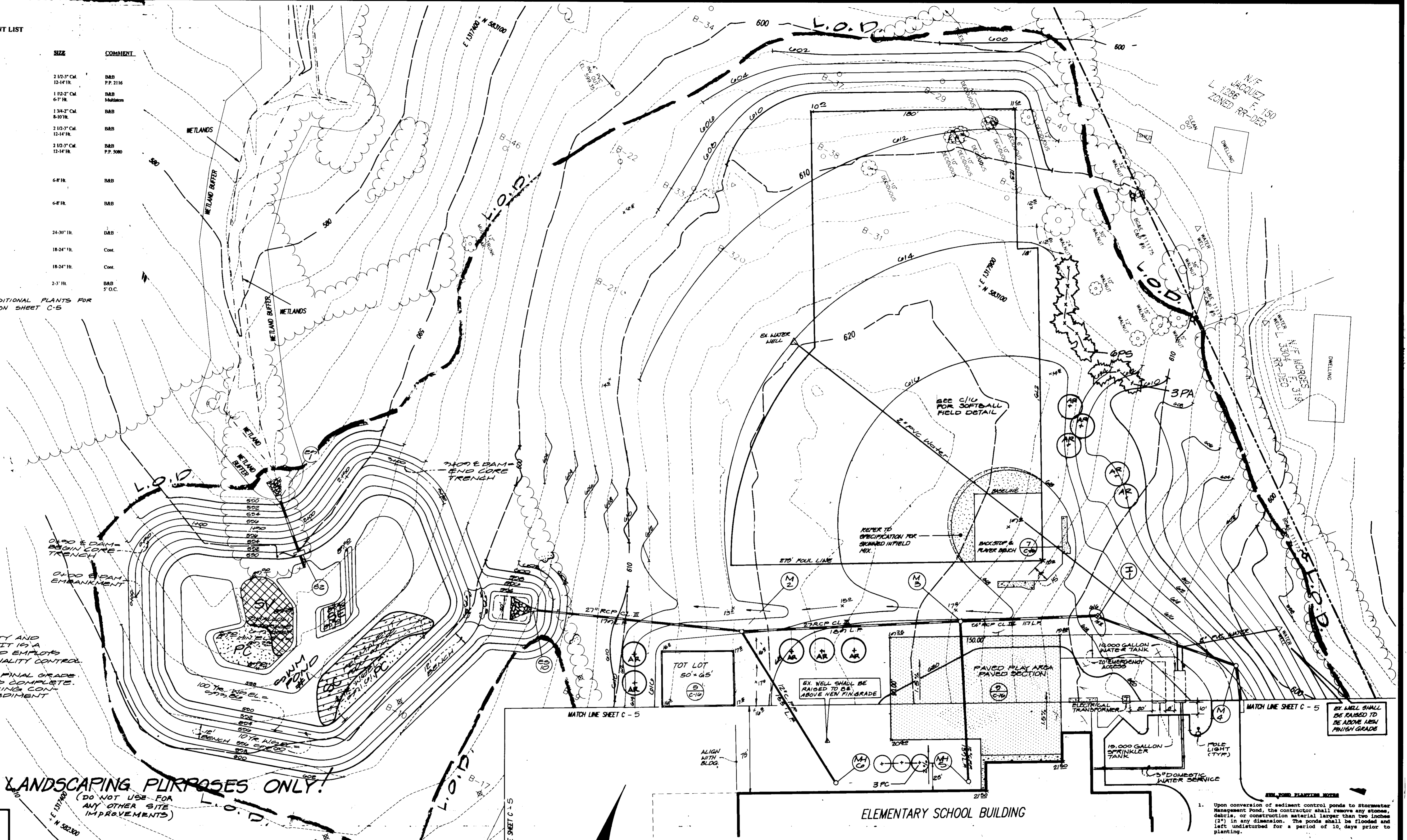
GLW GUTSCHICK LITTLE & WEBER, P.A.
 CIVIL ENGINEERS, SURVEYORS, PLANNERS, LANDSCAPE ARCHITECTS
 3800 NATIONAL DRIVE - SUITE 250 - BURTONTOWN, MARYLAND 20866
 TEL: (301) 421-4824 FAX: (301) 421-2524

NO.	REVISION	DATE	BY	APPR.

PREPARED FOR:
 HOWARD COUNTY PUBLIC SCHOOL SYSTEM
 10910 ROUTE 108
 ELLICOTT CITY, MARYLAND 21043
 PHONE: (410) 313-8805

LANDSCAPE PLAN
WESTERN ELEMENTARY SCHOOL No. 3
 WEST FRIENDSHIP ELECTION DISTRICT No. 3
 HOWARD COUNTY, MARYLAND

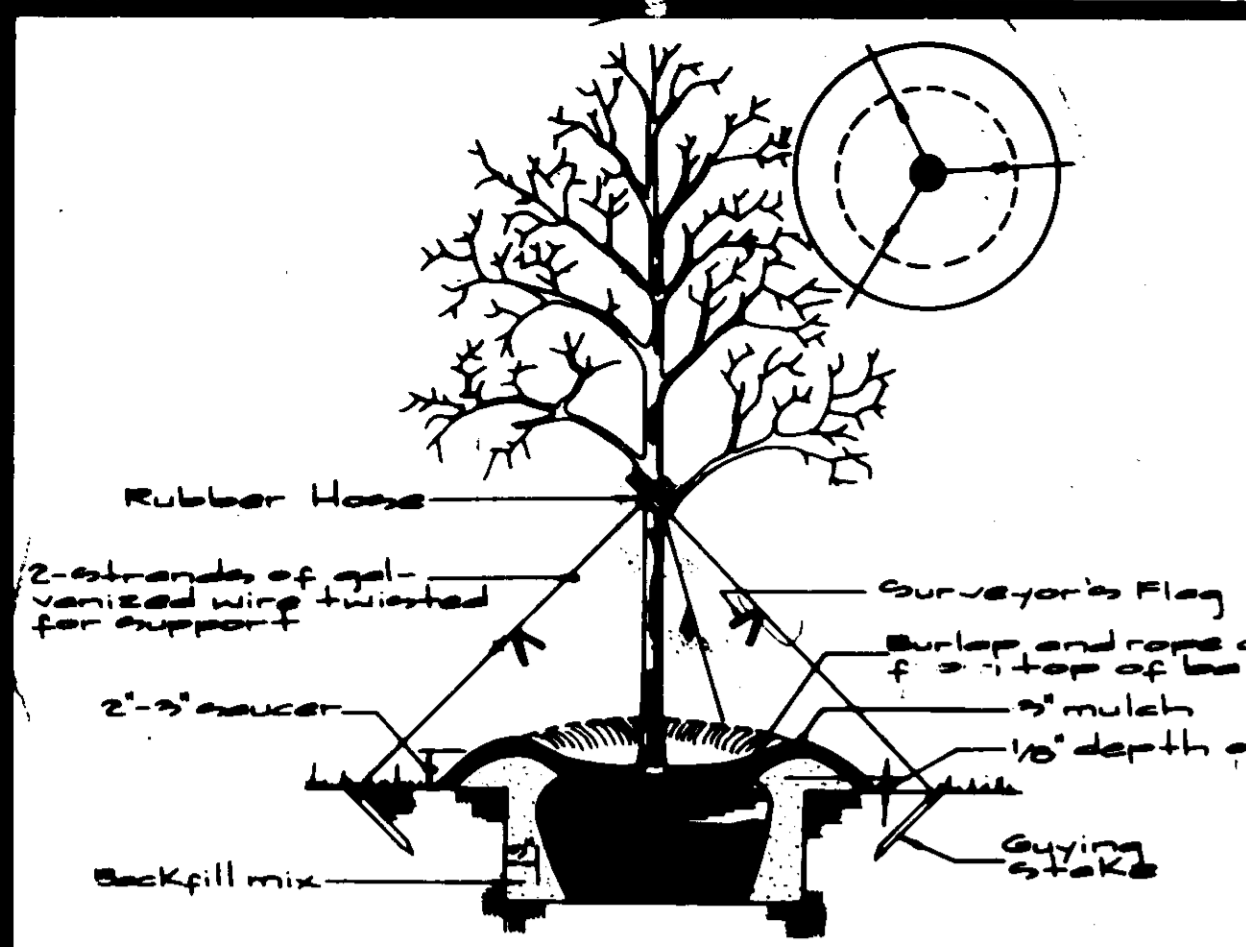
SCALE	ZONING	G. L. W. FILE NO.
1" = 40'	RR	96012
DATE	TAX MAP No.	SHEET
1-02-97	22	C-6 OF 16



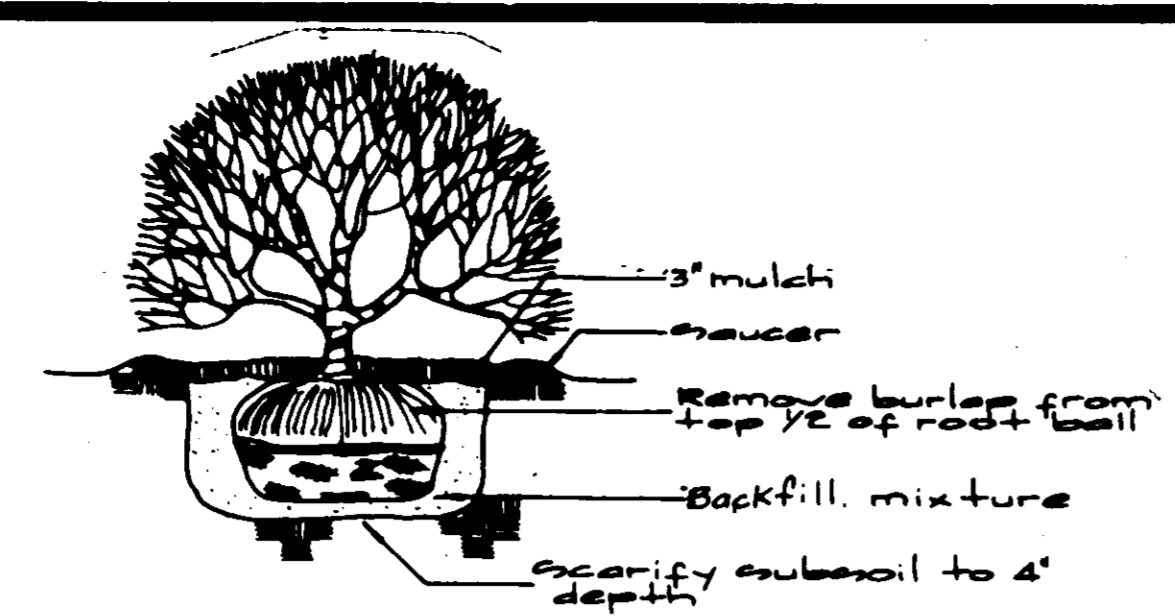
SWM POND PLANT LIST

KEY	QTY	NAME (COMMON/BOTANICAL)	REMARKS
PC	1415	Pickersel Weed/Pongederia cordata	Bare Root @ 18" O.C.
SC	1372	Lizards Tail/Saururus cernuus	Bare Root @ 18" O.C.
SE	377	Giant Bur-reed/Sparganium eurycarpum	Bare Root @ 18" O.C.
SV	917	Soft Stem Bullrush/Scirpus validus	Bare Root @ 18" O.C.

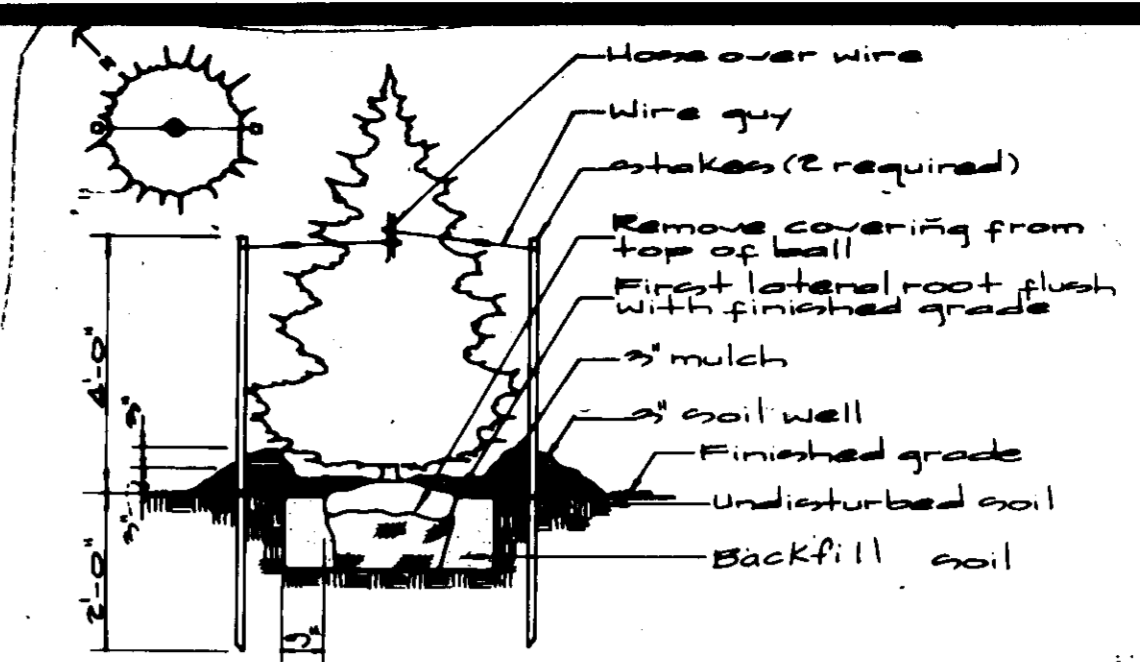
- Upon conversion of sediment control ponds to stormwater management ponds, the contractor shall remove any stones, debris, or construction material larger than two inches (2") in any dimension. The ponds shall be flooded and left undisturbed for a period of 10 days prior to planting.
- One ounce of 18-6-25 slow release fertilizer shall be incorporated into the soil for each plant at the time of planting.
- Soil shall be saturated with water during and after planting, or the planting area may be completely flooded at this time (wet planting). Planting soil shall be firmly pressed around each plant to prevent flotation.
- The source of all aquatic and emergent plants shall be approved by the owner or landscape architect prior to ordering. These plants shall be grown in pots (containers specified) or nursery growing beds (bare root specified) for a minimum of 12 months prior to installation and shall have been wet cultivated during the entire period.
- All plant material shall be guaranteed for a period of one year after formal acceptance. Plants which have greater than 30% dieback or have not grown so as to emerge from the water surface, shall be replaced at the next planting season.
- Remove litter and debris as required during the first growing season and establish beginning of the second growing season.



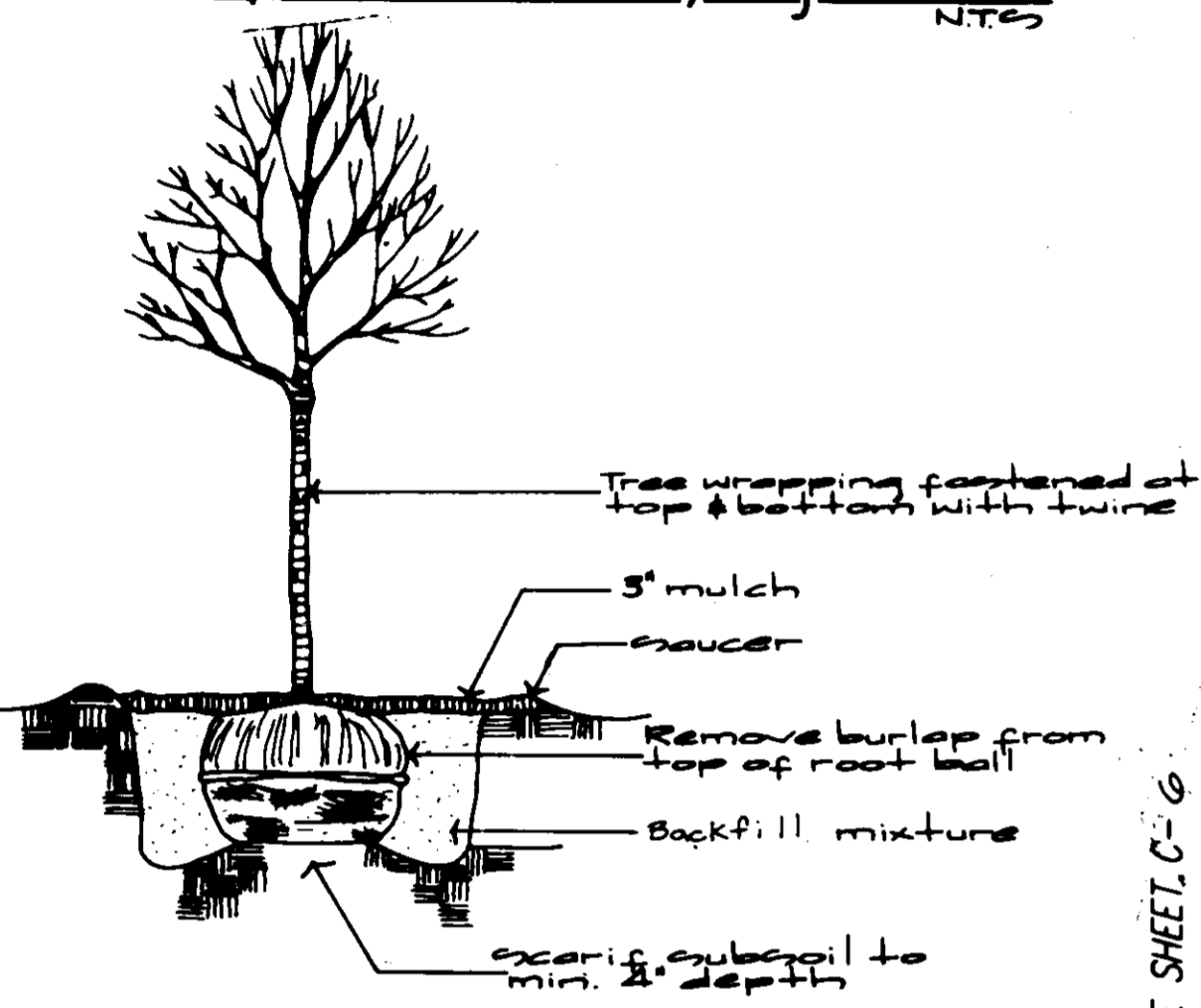
Typical Tree Guying Detail
NTG



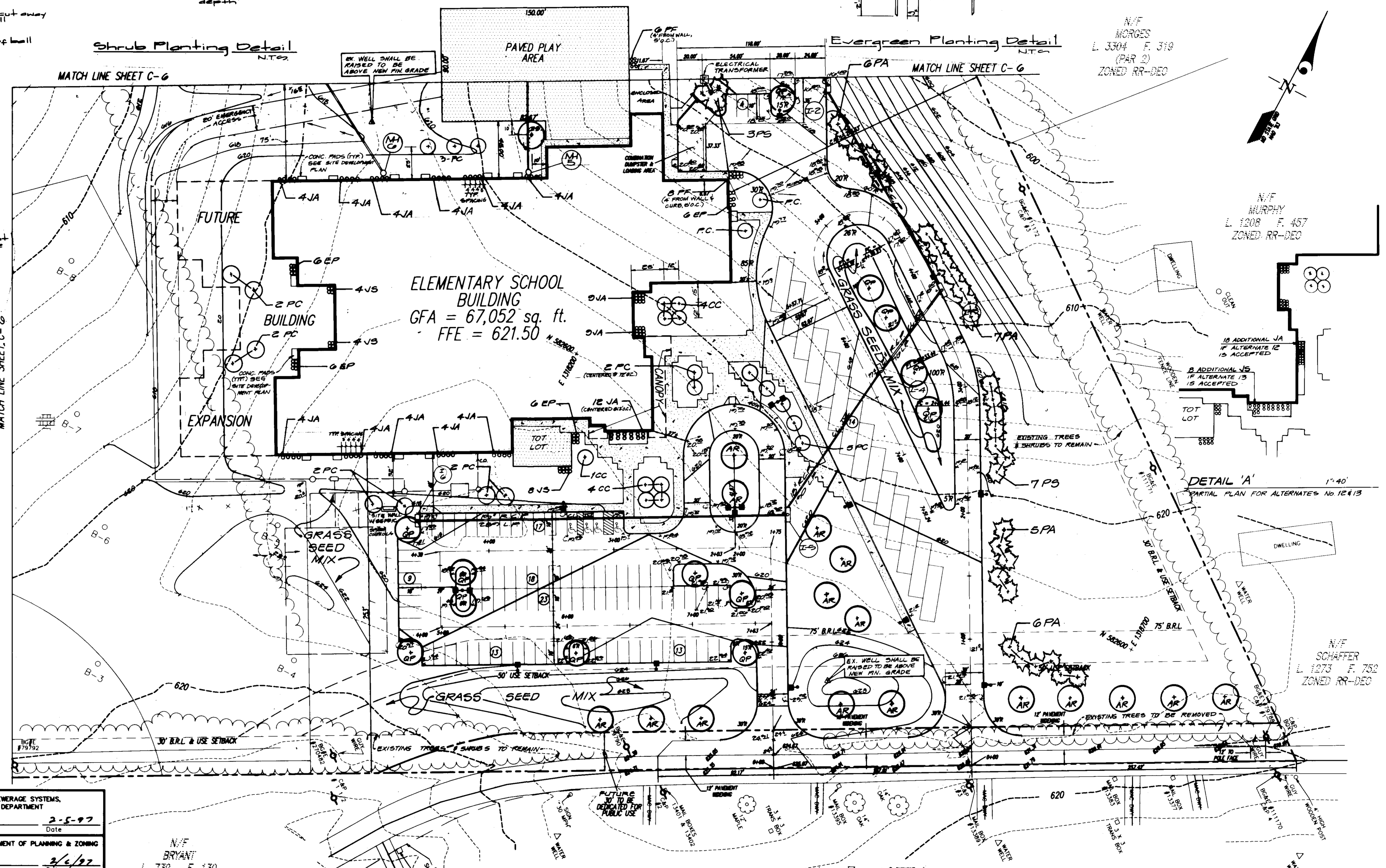
Shrub Planting Detail
NTG



Evergreen Planting Detail
NTG



Typical Deciduous Tree Planting
NTG



- LEGEND**
- STANDARD 7" COMB CURB & GUTTER
 - STANDARD 6" COMB CURB & GUTTER
 - REVERSE 6" COMB CURB & GUTTER



APPROVED: FOR PRIVATE WATER & SEWERAGE SYSTEMS,
HOWARD COUNTY HEALTH DEPARTMENT
Joseph M. Bryant 2-5-97
County Health Officer Date

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING
Joseph M. Bryant 2/6/97
Director Date

Richard Blum 2/6/97
Chief, Division of Land Development Date

Michael J. ... 1/20/97
Chief, Development Engineering Division Date

N/F BRYANT
L. 739 F. 130
ZONED RR-DEC

FOR LANDSCAPING PURPOSES ONLY! (Do Not Use For Any Other Site Improvements)

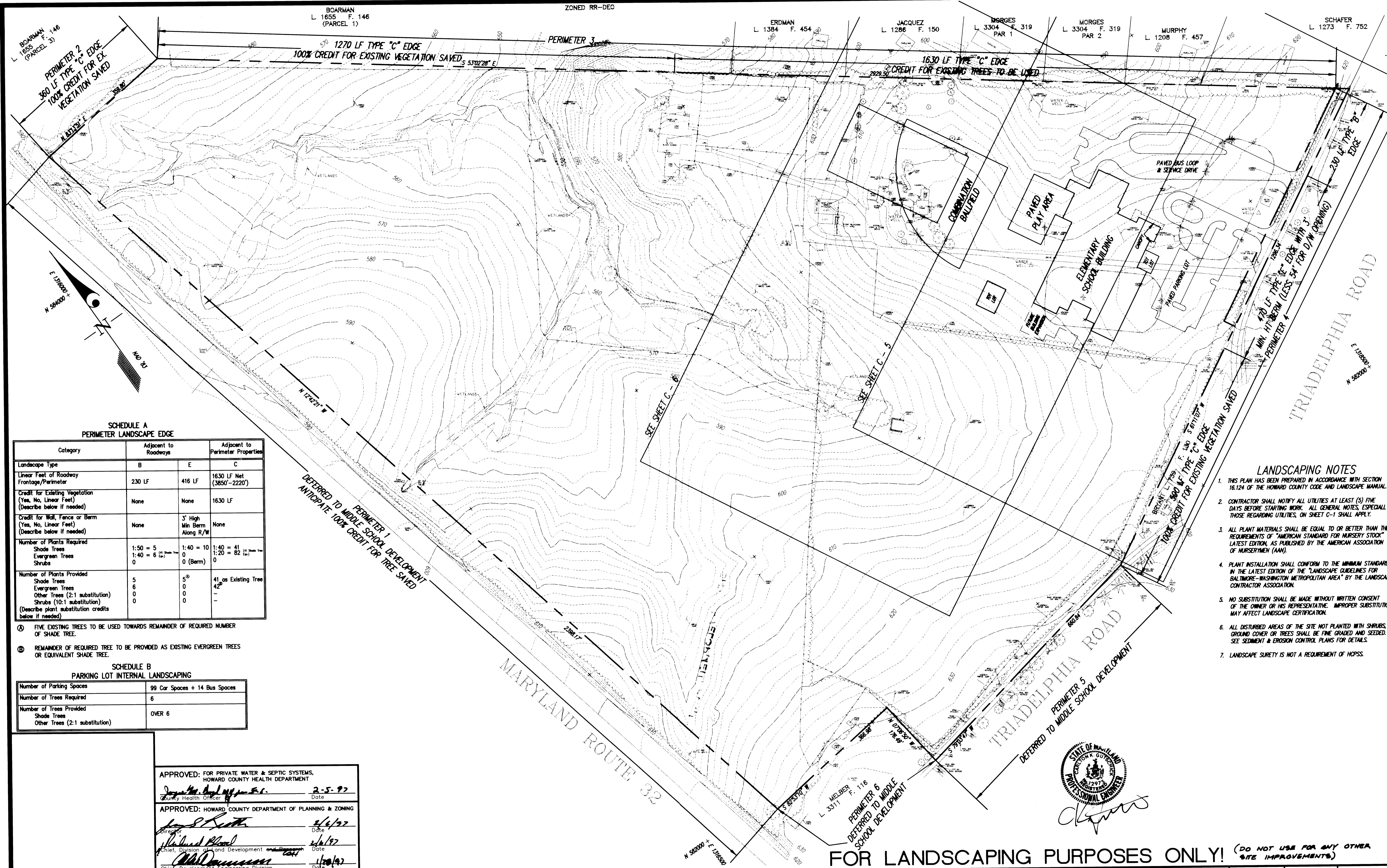
GLW GUTSCHICK LITTLE & WEBER, P.A.
CIVIL ENGINEERS, SURVEYORS, PLANNERS, LANDSCAPE ARCHITECTS
3800 NATIONAL DRIVE - SUITE 250 - BURTONSVILLE OFFICE PARK - BURTONSVILLE, MARYLAND 20866
TEL: (301) 421-0044 NO. VA. (301) 988-2244 BULTE (410) 888-1820 FAX: (301) 421-0044 DES. DRW. SAC CHK.

DATE	REVISION	BY	APPR.

PREPARED FOR:
HOWARD COUNTY PUBLIC SCHOOL SYSTEM
10810 ROUTE 108
ELLCOTT CITY, MARYLAND 21043
PHONE: (410) 313-8825

LANDSCAPE PLAN
WESTERN ELEMENTARY SCHOOL No. 3

SCALE	ZONING	G. L. W. FILE No.
1" = 40'	RR	96012
DATE	TAX MAP No.	SHEET
1-02-97	22	C-5 OF 16



SCHEDULE A
PERIMETER LANDSCAPE EDGE

Category	Adjacent to Roadways		Adjacent to Perimeter Properties
	B	E	C
Linear Feet of Roadway Frontage/Perimeter	230 LF	416 LF	1630 LF Net (3650 - 2220')
Credit for Existing Vegetation (Yes, No, Linear Feet) (Describe below if needed)	None	None	1630 LF
Credit for Wall, Fence or Berm (Yes, No, Linear Feet) (Describe below if needed)	None	3' High Min Berm Along R/W	None
Number of Plants Required			
Shade Trees	1:50 = 5	1:40 = 10	1:40 = 41
Evergreen Trees	1:40 = 6	0	1:20 = 82
Shrubs	0	0 (Berm)	0
Number of Plants Provided			
Shade Trees	5	5 ⁰	41 as Existing Tree
Evergreen Trees	6	0	42 ⁰
Other Trees (2:1 substitution)	0	0	-
Shrubs (10:1 substitution)	0	0	-
(Describe plant substitution credits below if needed)			

- (A) FIVE EXISTING TREES TO BE USED TOWARDS REMAINDER OF REQUIRED NUMBER OF SHADE TREE.
- (B) REMAINDER OF REQUIRED TREE TO BE PROVIDED AS EXISTING EVERGREEN TREES OR EQUIVALENT SHADE TREE.

SCHEDULE B
PARKING LOT INTERNAL LANDSCAPING

Number of Parking Spaces	99 Car Spaces + 14 Bus Spaces
Number of Trees Required	6
Number of Trees Provided	OVER 6
Shade Trees	
Other Trees (2:1 substitution)	

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

James M. [Signature] 2-5-97
County Health Officer Date

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING

James S. [Signature] 2/6/97
Director Date

Richard [Signature] 2/6/97
Chief, Division of Land Development Date

John [Signature] 1/20/97
Chief, Development Engineering Division Date



LANDSCAPING NOTES

1. THIS PLAN HAS BEEN PREPARED IN ACCORDANCE WITH SECTION 16.124 OF THE HOWARD COUNTY CODE AND 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 C-1 SHALL APPLY.
3. ALL PLANT MATERIALS SHALL BE EQUAL TO OR BETTER THAN THE REQUIREMENTS OF "AMERICAN STANDARD FOR NURSERY STOCK" LATEST EDITION, AS PUBLISHED BY THE AMERICAN ASSOCIATION OF NURSERMEN (AAN).
4. PLANT INSTALLATION SHALL CONFORM TO THE MINIMUM STANDARDS IN THE LATEST EDITION OF THE "LANDSCAPE GUIDELINES FOR BALTIMORE-WASHINGTON METROPOLITAN AREA" BY THE LANDSCAPE CONTRACTOR ASSOCIATION.
5. NO SUBSTITUTION SHALL BE MADE WITHOUT WRITTEN CONSENT OF THE OWNER OR HIS REPRESENTATIVE. IMPROPER SUBSTITUTION MAY AFFECT LANDSCAPE CERTIFICATION.
6. ALL DISTURBED AREAS OF THE SITE NOT PLANTED WITH SHRUBS, GROUND COVER OR TREES SHALL BE FINE GRADED AND SEEDED. SEE SEDIMENT & EROSION CONTROL PLANS FOR DETAILS.
7. LANDSCAPE SURETY IS NOT A REQUIREMENT OF HOPSS.

FOR LANDSCAPING PURPOSES ONLY! (DO NOT USE FOR ANY OTHER SITE IMPROVEMENTS)

GLW GUTSCHICK LITTLE & WEBER, P.A.

CIVIL ENGINEERS, SURVEYORS, PLANNERS, LANDSCAPE ARCHITECTS
3909 NATIONAL DRIVE - SUITE 250 - BURTONSVILLE OFFICE PARK - BURTONSVILLE, MARYLAND 20866

TEL: (301) 421-4024 MD. VA.: (301) 989-2524 BALT.: (410) 880-1820 FAX: (301) 421-4186 DES. DRN. SJC CHK.

PREPARED FOR:
HOWARD COUNTY PUBLIC SCHOOL SYSTEM
10910 ROUTE 108
ELLCOTT CITY, MARYLAND 21043
PHONE: (410) 313-6805

LANDSCAPE PLAN
WESTERN ELEMENTARY SCHOOL #3

SCALE	ZONING	G. L. W. FILE No.
1" = 100'	RR	96012
DATE	TAX MAP No.	SHEET
1-02-97	22	C - 4 OF 16

WEST FRIENDSHIP ELECTION DISTRICT No. 3

HOWARD COUNTY, MARYLAND

ENGINEER'S CERTIFICATE
 I certify that this plan for pond construction, erosion and sediment control represents a practical and verifiable plan based on my personal knowledge of the site conditions. This plan was prepared in accordance with the requirements of the Howard Soil Conservation District. I have notified the developer that he/she must engage a registered professional engineer to supervise pond construction and provide the Howard Soil Conservation District with an "as-built" plan of the pond within 30 days of completion.

[Signature] 10/22/96
 Date

DEVELOPER'S/BUILDER'S CERTIFICATE
 I/We certify that all development and/or construction will be done according to these plans, 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 shall engage a registered Professional Engineer to supervise pond construction and provide the Howard Soil Conservation District with an "as-built" plan of the pond within 30 days of completion. I also authorize periodic on-site inspections by the Howard Soil Conservation District.

Cathleen Conley Young 10/22/96
 Signature of Developer/Builder Date

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

Cheryl L. Johnson 01-23-97
 Natural Resources Conservation Officer Date

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

Robert W. Zedner 1/23/97
 Howard Soil Conservation District Date

SWM POND NOTES
 1. SWM POND #1 IS A QUANTITY AND QUALITY CONTROL POND. IT IS A CLASS "A" STRUCTURE AND EMPLOYS A RETENTION POOL FOR QUALITY CONTROL.
 2. POND BOTTOM SHOWN IS FINAL GRADE AFTER EROSION CONTROL IS COMPLETE. FOR CONFIGURATION DURING CONSTRUCTION REFER TO SEDIMENT CONTROL PLANS.
 3. SWM POND TO BE MAINTAINED BY PROPERTY OWNER.

PROVIDE TO MAINTAIN AS A PERMANENT DIKE UNTIL FUTURE MIDDLE SCHOOL CONSTRUCTION.
 NOTE: THIS DIKE IS TO BE INSTALLED BEFORE THE CONVERSION OF THE POND INTO A POND #1. THE EARTH DIKE SHOWN ON THE SEDIMENT CONTROL PLAN HAS BEEN REMOVED.

APPROVED: FOR PRIVATE WATER & SEWERAGE SYSTEMS,
 HOWARD COUNTY HEALTH DEPARTMENT
Joyce M. Boyd-Lynn, Esq. 2-5-97
 County Health Officer Date

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING
David K. Butler 2/6/97
 Date
Richard Blood 2/6/97
 Chief, Division of Land Development Date
John Williams 1/29/97
 Chief, Development Engineering Division Date

PROVIDE SIX (6) 18" x 18" x 12" STONE AT BASE OF DIKE FROM DIKE TO SWAGE

GLW GUTSCHICK LITTLE & WEBER, P.A.
 CIVIL ENGINEERS, SURVEYORS, PLANNERS, LANDSCAPE ARCHITECTS
 3909 NATIONAL DRIVE - SUITE 250 - BURTONSVILLE OFFICE PARK - BURTONSVILLE, MARYLAND 20866
 TEL: (301) 421-4024 MD. VA. (301) 989-2524 BALG. (410) 860-1820 FAX: (301) 421-4186 DES. DRN. SAC CHK.

1-18-97 ADDED NOTE REGARDING CRP, MHS AND MHG
 1-18-97 ADDED PERMANENT EARTH DIKE AT SWM POND #1
 1-29-97 SHOW STORM TRENCHES IN SETBACK PERM.
 DATE REVISION

LEAD BY APPR.

PREPARED FOR:
 HOWARD COUNTY PUBLIC SCHOOL SYSTEM
 10910 ROUTE 108
 ELLICOTT CITY, MARYLAND 21043
 PHONE: (410) 313-6805

SWM Summary

Ex. #	Prop. #	Prop. W/ Mgmt. #	Pond A in	Pond A out	WSL	Storage	
Q ₂	74 cfs	43 cfs	7.2 cfs	30.9 cfs	1.4 cfs	91.59	
Q ₁₀	44 cfs	100 cfs	44.1 cfs	71.1 cfs	72.05	2.21 Ac.ft.	
Q ₁₀₀	-	-	-	120.0 cfs	0.4 cfs	99.70	3.32 Ac.ft.

* To study point.

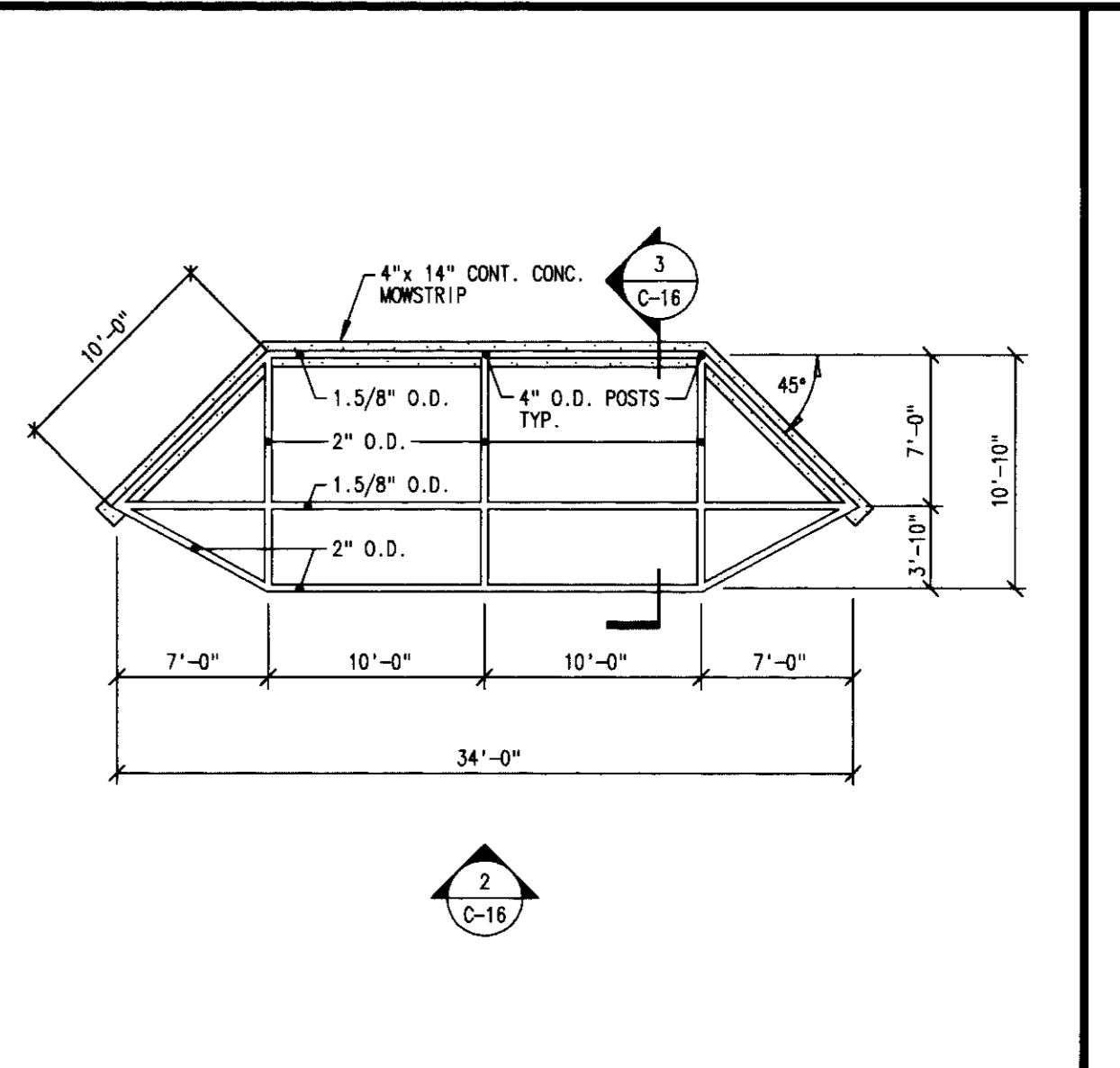
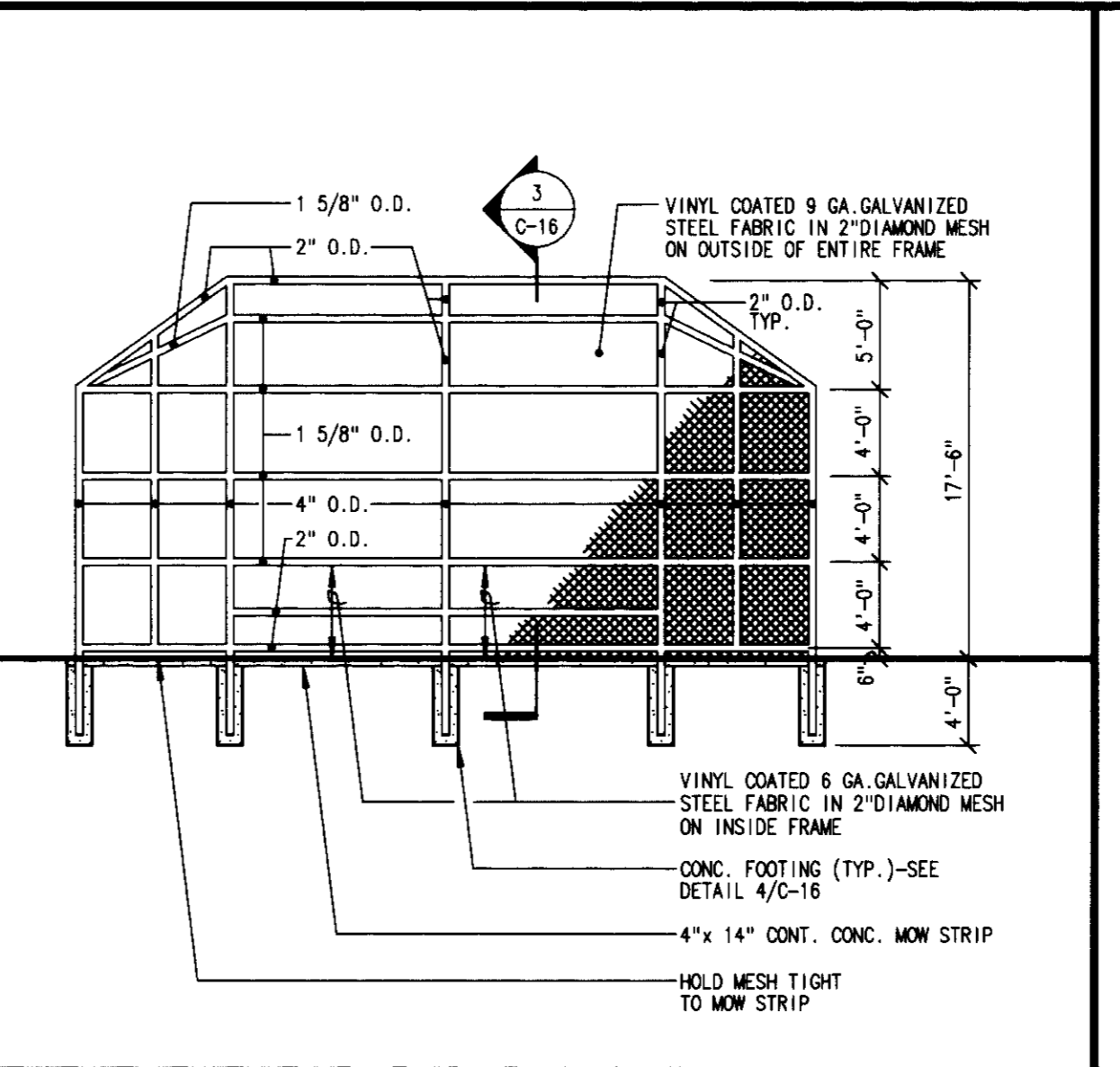
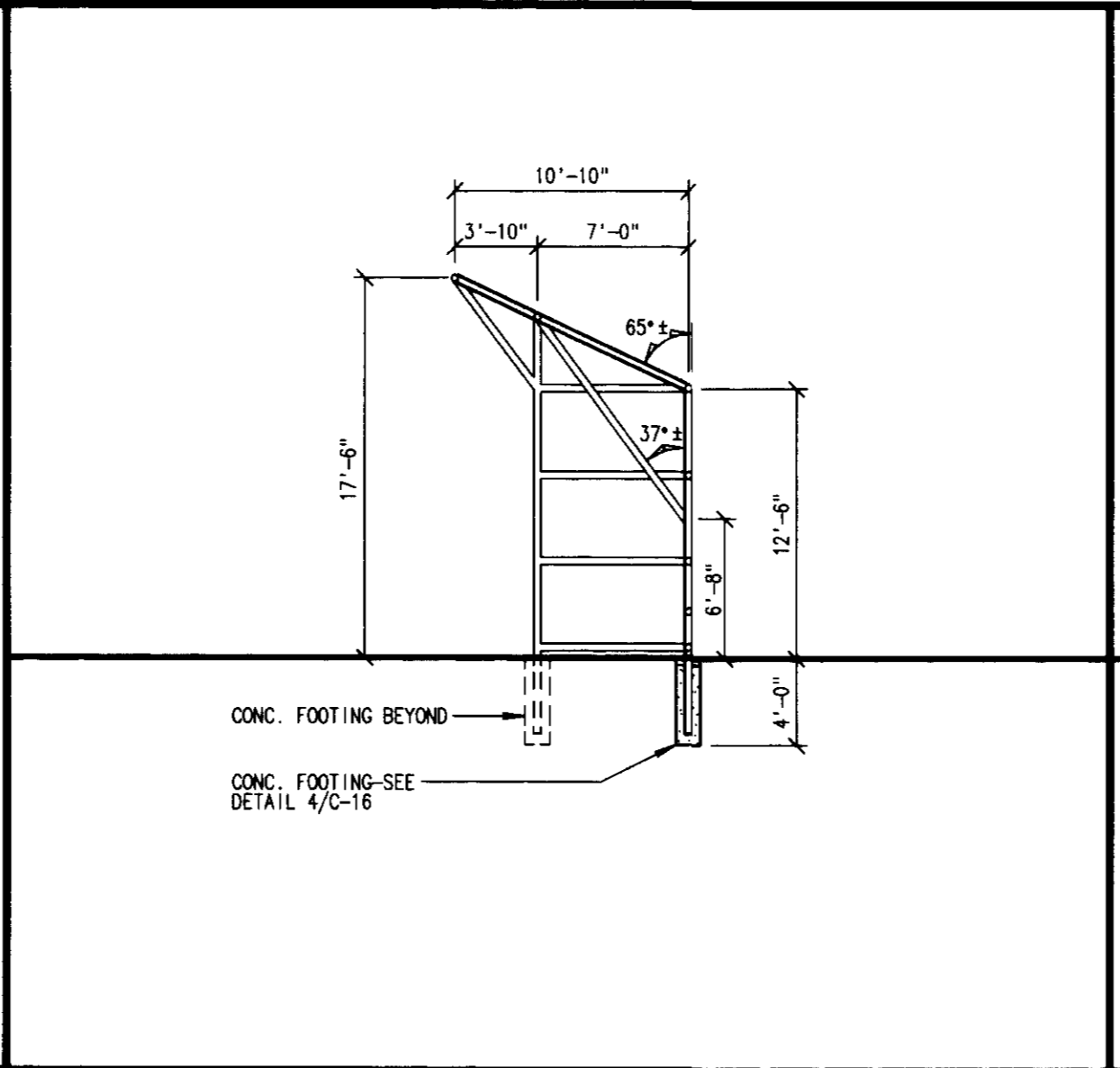
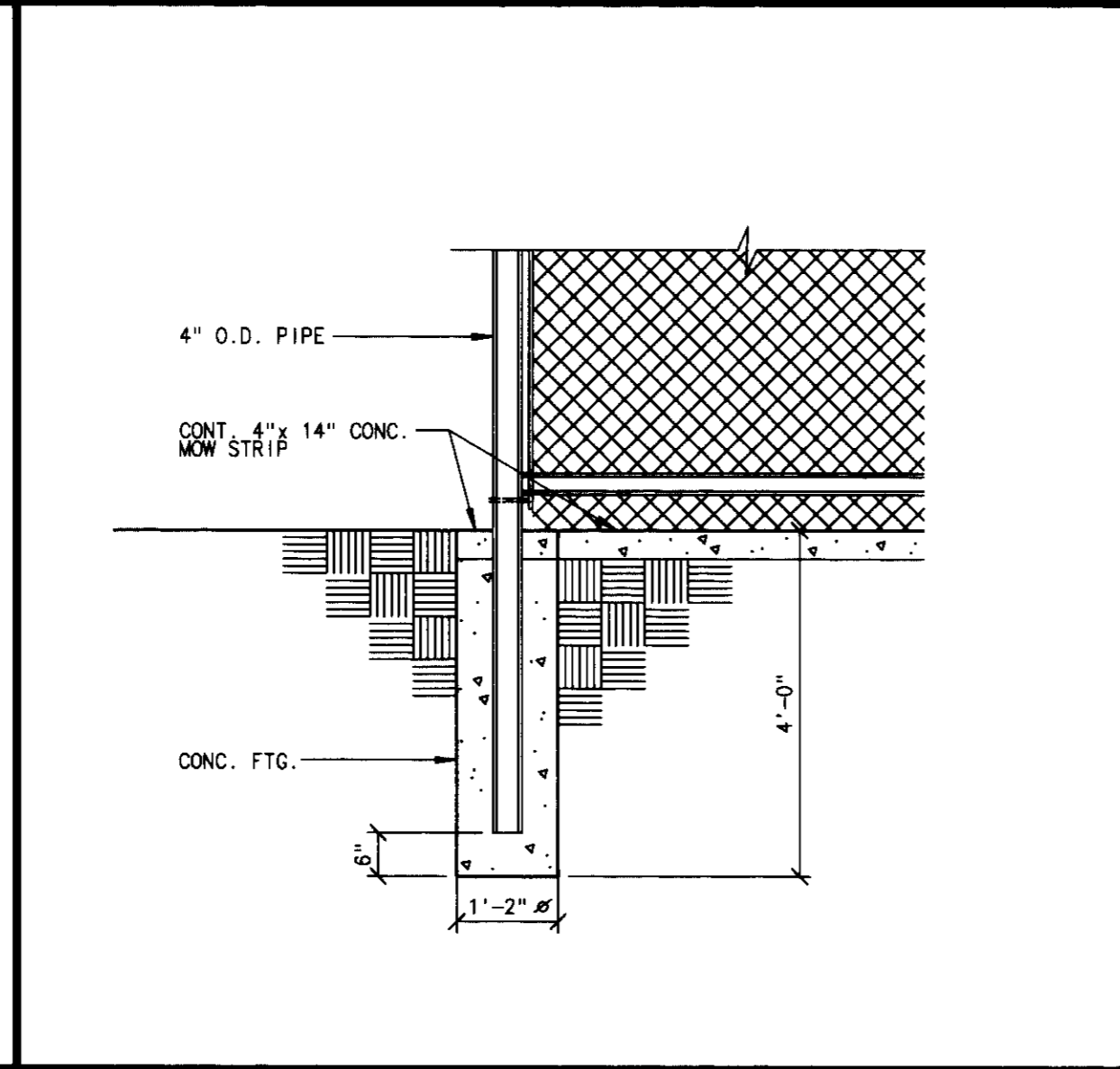
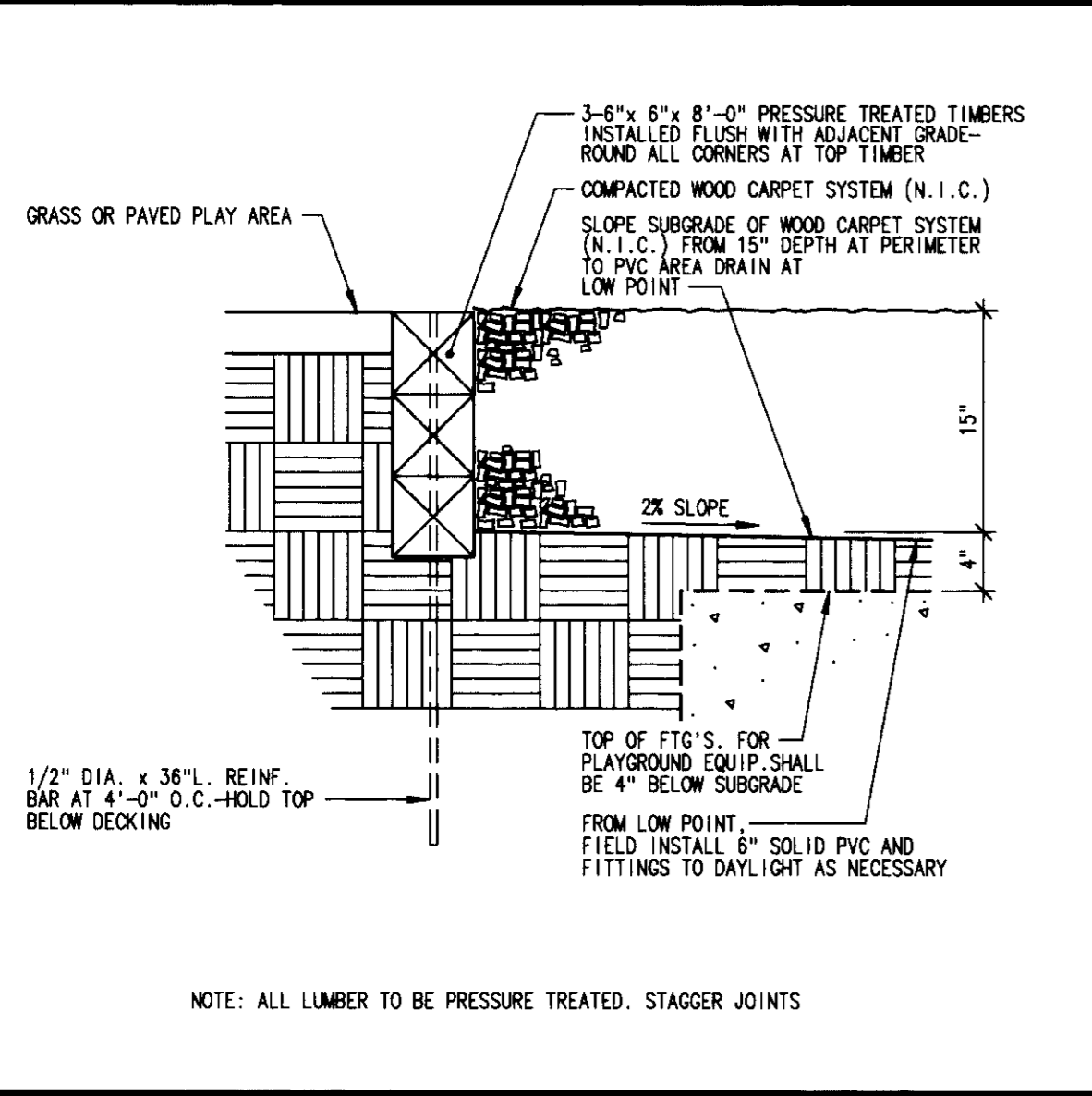
CONTRACTOR SHALL FURNISH AND INSTALL CRP, MHS AND MHG IN ACCORDANCE WITH INSTALLATION PROCEDURES AND DESIGN SPECIFICATIONS AND APPROVED THROUGH THE SUBMITTAL PROCEDURES OUTLINED IN THE PROJECT SPECS.

WEST FRIENDSHIP ELECTION DISTRICT No. 3

SITE DEVELOPMENT PLAN
WESTERN ELEMENTARY SCHOOL No. 3

SCALE: 1" = 40'
 ZONING: RR
 G. L. W. FILE No.: 96012
 DATE: 1-02-97
 TAX MAP No.: 22
 SHEET: C-3 OF 6
 HOWARD COUNTY, MARYLAND

SDP 9746



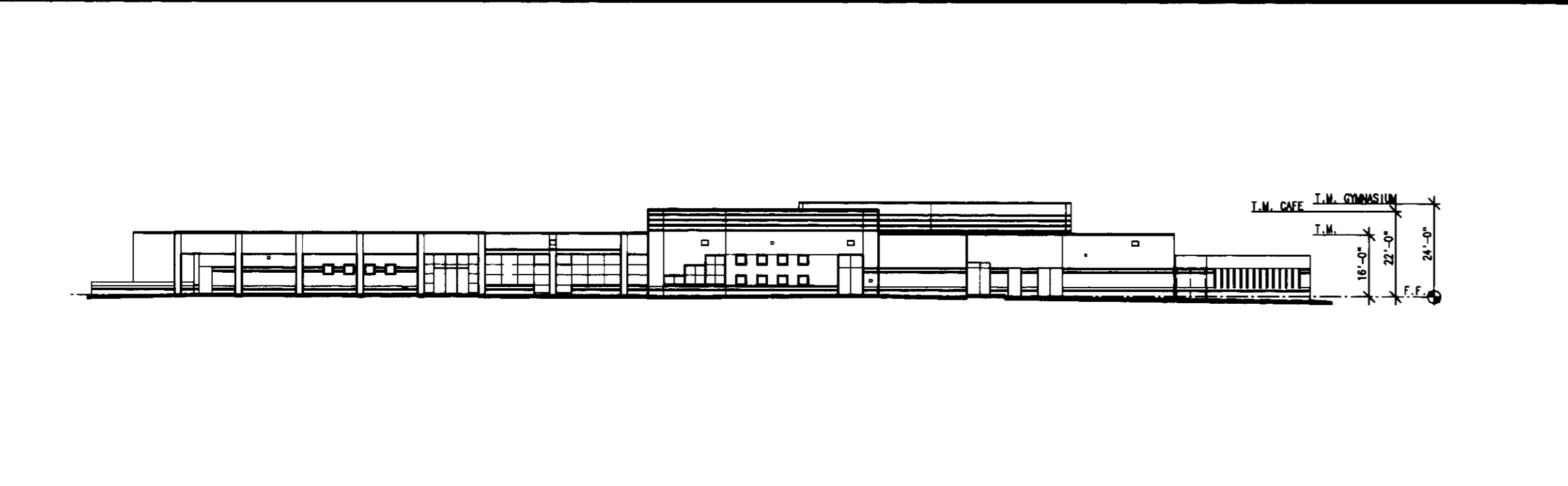
5
C-16 PLAY AREA SURFACE/DRAINAGE DETAIL 1\"/>

4
C-16 PIPE FOOTING DETAIL 1\"/>

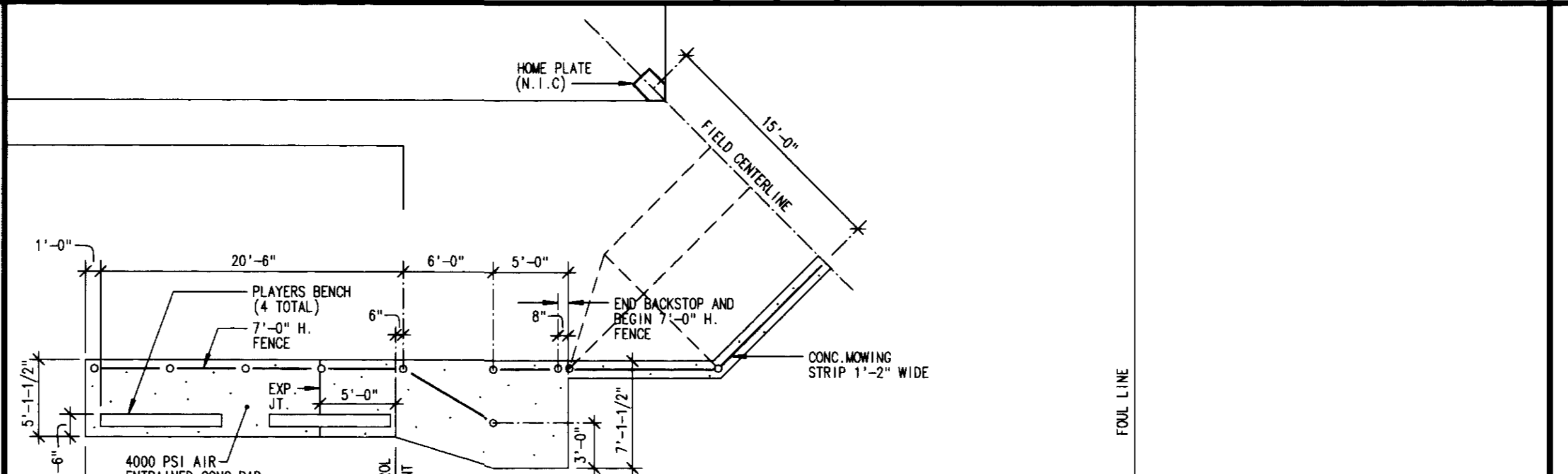
3
C-16 BASEBALL BACKSTOP SECTION 1\"/>

2
C-16 BACKSTOP ELEVATION 1\"/>

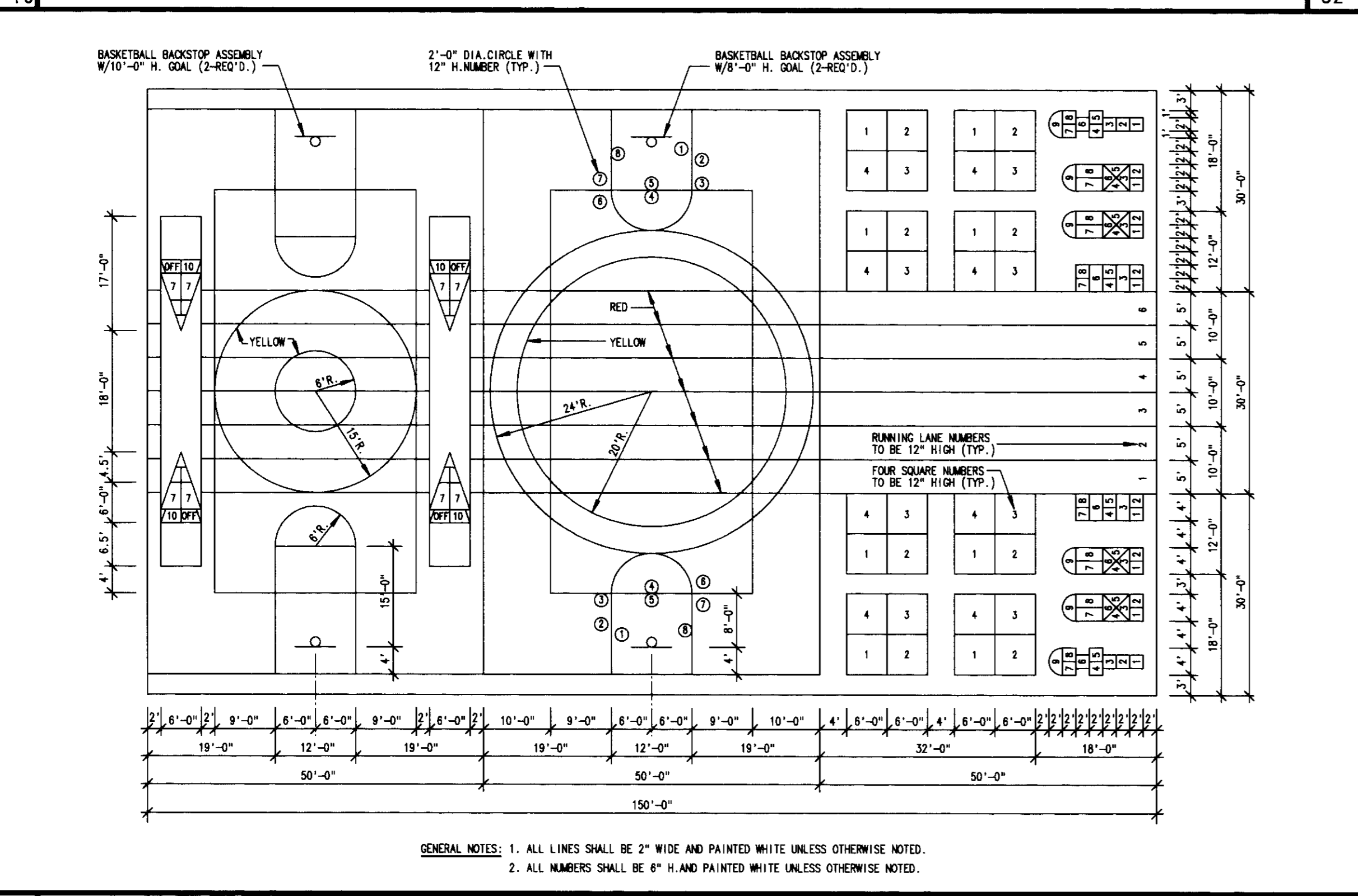
1
C-16 SOFTBALL BACKSTOP PLAN 1\"/>



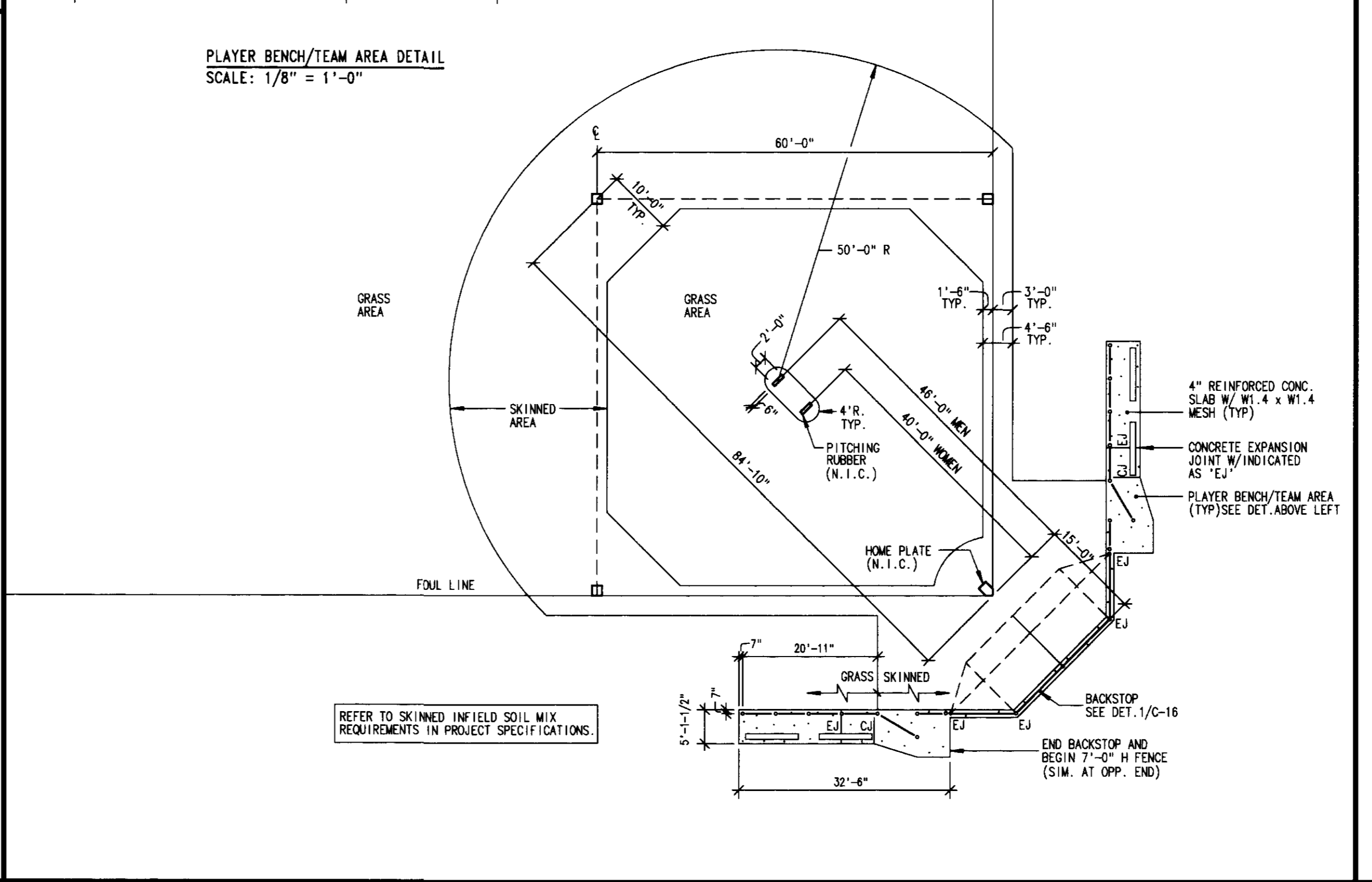
8
C-16 EAST ELEVATION (FACING BUS LOOP) 1\"/>



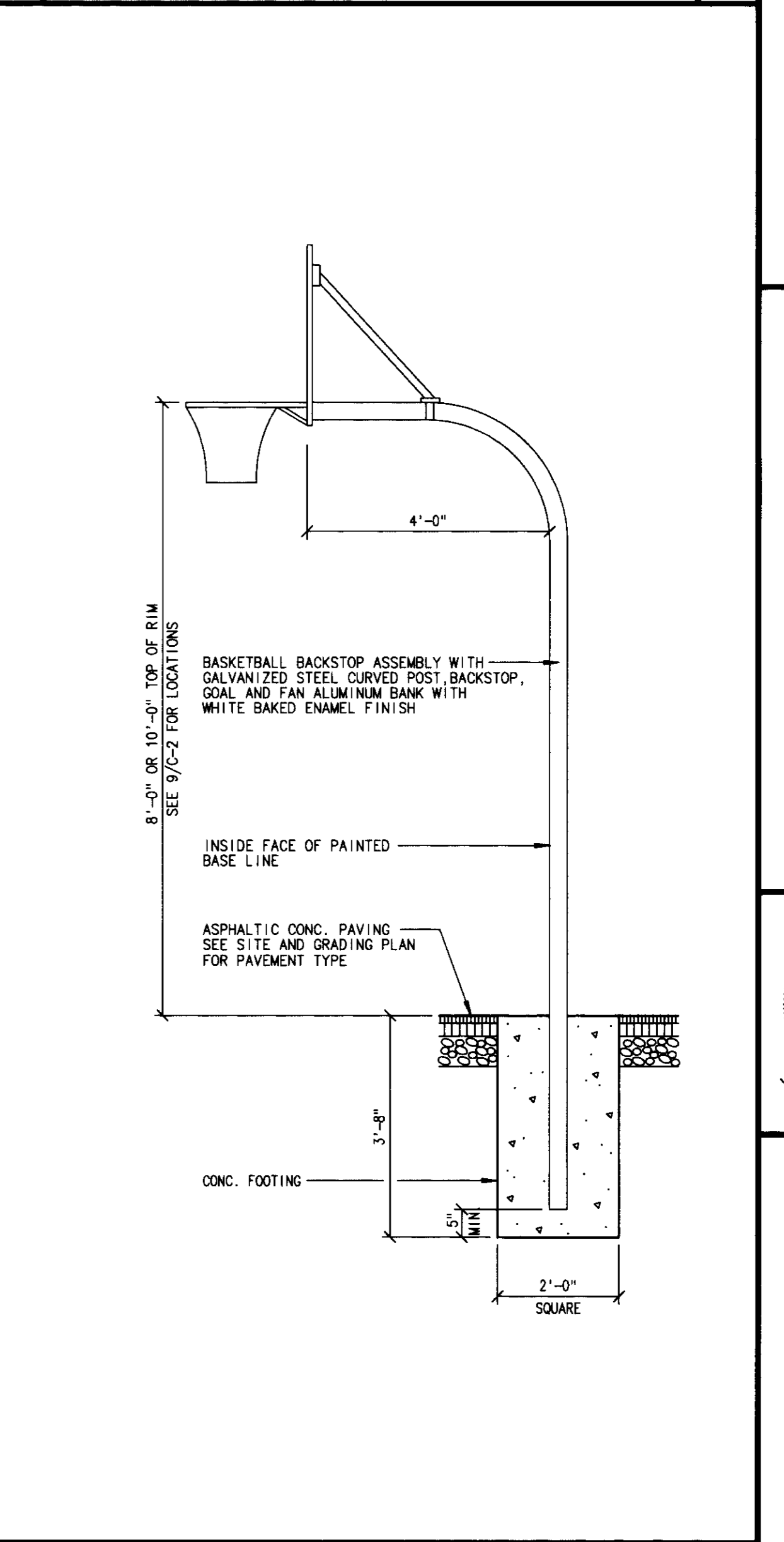
7
C-16 PLAYERS BENCH/TEAM AREA DETAIL SCALE: 1/8\"/>



9
C-16 PAVED PLAY AREA - STRIPING DETAIL 1\"/>



6
C-16 SOFTBALL FIELD 1\"/>



6
C-16 BACKBOARD DETAIL 1\"/>

APPROVED: HOWARD COUNTY HEALTH DEPARTMENT FOR Private WELL AND SEPTIC SYSTEMS

James M. Boyd HEALTH OFFICER 2-5-97 DATE

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

APPROVED: DEPARTMENT OF PLANNING AND ZONING

Richard Blood DIRECTOR 2/6/97 DATE

Richard Blood CHIEF, DIVISION OF LAND DEVELOPMENT AND RESEARCH 2/6/97 DATE

John P. ... CHIEF, DEVELOPMENT ENGINEERING DIVISION 1/20/97 DATE

SITE DETAILS

WESTERN ELEMENTARY SCHOOL NO.3

TAX MAP NO: 22 PARCEL: 6
3RD ELECTION DISTRICT: HOWARD COUNTY, MARYLAND
SCALE: AS SHOWN

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

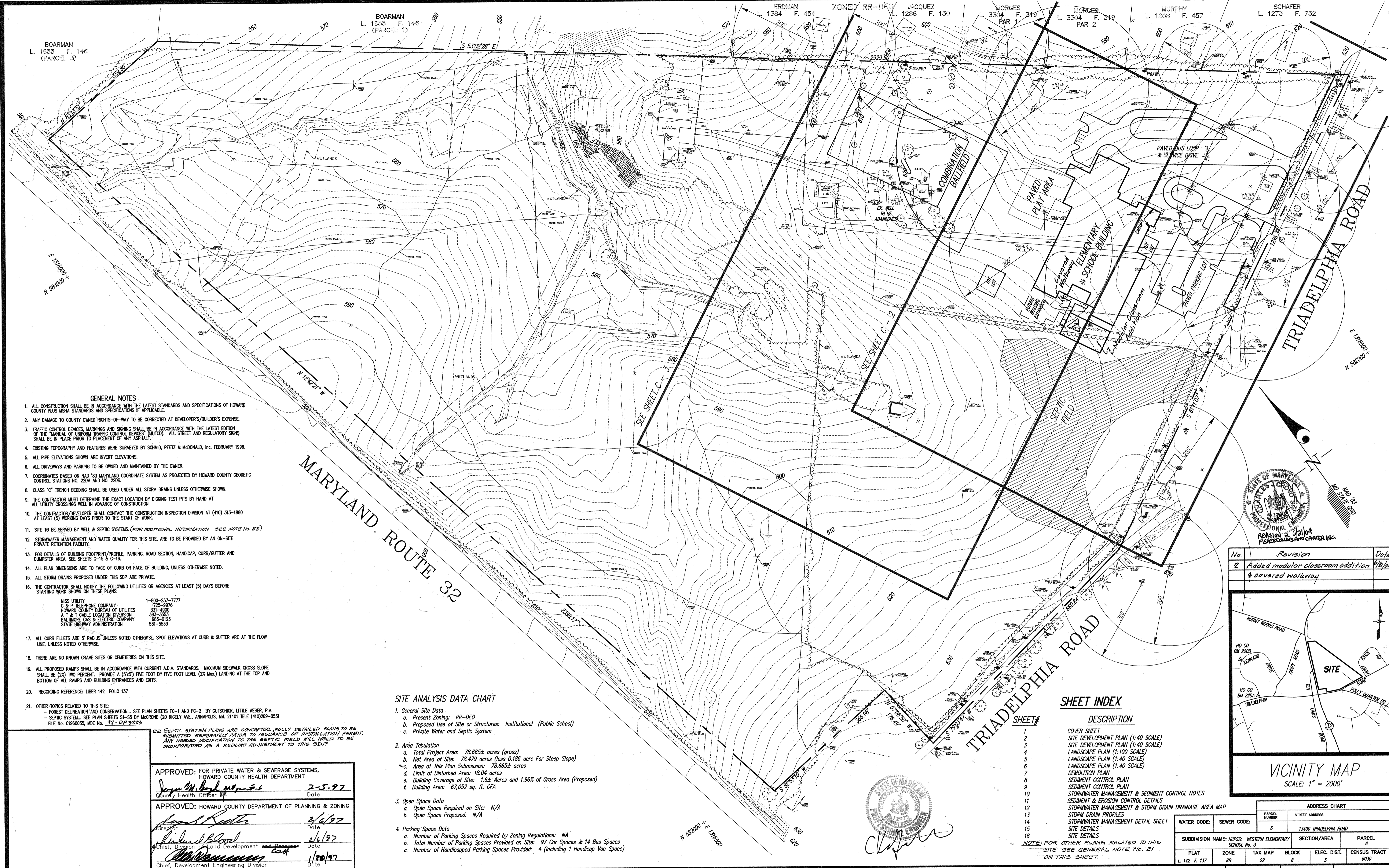
BOARD OF ARCHITECTS
2268
JOSEPH C. ...
STATE OF MARYLAND

tca
Thomas Clark Associates Architects
Annapolis, Maryland

1-02-97

C-16
of 16

project no. 9602



GENERAL NOTES

1. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST STANDARDS AND SPECIFICATIONS OF HOWARD COUNTY PLUS MSHA STANDARDS AND SPECIFICATIONS IF APPLICABLE.
2. ANY DAMAGE TO COUNTY OWNED RIGHTS-OF-WAY TO BE CORRECTED AT DEVELOPER'S/BUILDER'S EXPENSE.
3. TRAFFIC CONTROL DEVICES, MARKINGS AND SIGNING SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD). ALL STREET AND REGULATORY SIGNS SHALL BE IN PLACE PRIOR TO PLACEMENT OF ANY ASPHALT.
4. EXISTING TOPOGRAPHY AND FEATURES WERE SURVEYED BY SCHMID, PRETZ & McDONALD, Inc. FEBRUARY 1995.
5. ALL PIPE ELEVATIONS SHOWN ARE INVERT ELEVATIONS.
6. ALL DRIVEWAYS AND PARKING TO BE OWNED AND MAINTAINED BY THE OWNER.
7. COORDINATES BASED ON NAD '83 MARYLAND COORDINATE SYSTEM AS PROJECTED BY HOWARD COUNTY GEODETIC CONTROL STATIONS NO. 220A AND NO. 220B.
8. CLASS "C" TRENCH BEDDING SHALL BE USED UNDER ALL STORM DRAINS UNLESS OTHERWISE SHOWN.
9. THE CONTRACTOR MUST DETERMINE THE EXACT LOCATION BY DIGGING TEST PITS BY HAND AT ALL UTILITY CROSSINGS WELL IN ADVANCE OF CONSTRUCTION.
10. THE CONTRACTOR/DEVELOPER SHALL CONTACT THE CONSTRUCTION INSPECTION DIVISION AT (410) 313-1880 AT LEAST (5) WORKING DAYS PRIOR TO THE START OF WORK.
11. SITE TO BE SERVED BY WELL & SEPTIC SYSTEMS. (FOR ADDITIONAL INFORMATION SEE NOTE No. 22)
12. STORMWATER MANAGEMENT AND WATER QUALITY FOR THIS SITE, ARE TO BE PROVIDED BY AN ON-SITE PRIVATE RETENTION FACILITY.
13. FOR DETAILS OF BUILDING FOOTPRINT/PROFILE, PARKING, ROAD SECTION, HANDICAP, CURB/GUTTER AND DUMPSTER AREA, SEE SHEETS C-15 & C-16.
14. ALL PLAN DIMENSIONS ARE TO FACE OF CURB OR FACE OF BUILDING, UNLESS OTHERWISE NOTED.
15. ALL STORM DRAINS PROPOSED UNDER THIS SDP ARE PRIVATE.
16. THE CONTRACTOR SHALL NOTIFY THE FOLLOWING UTILITIES OR AGENCIES AT LEAST (5) DAYS BEFORE STARTING WORK SHOWN ON THESE PLANS:
 MISS UTILITY 1-800-257-7777
 C & P TELEPHONE COMPANY 725-9976
 HOWARD COUNTY BUREAU OF UTILITIES 331-4900
 A T & T CABLE LOCATION DIVISION 393-3553
 BALTIMORE GAS & ELECTRIC COMPANY 685-0153
 STATE HIGHWAY ADMINISTRATION 531-5533
17. ALL CURB FILLETS ARE 5' RADIUS UNLESS NOTED OTHERWISE. SPOT ELEVATIONS AT CURB & GUTTER ARE AT THE FLOW LINE, UNLESS NOTED OTHERWISE.
18. THERE ARE NO KNOWN GRAVE SITES OR CEMETERIES ON THIS SITE.
19. ALL PROPOSED RAMPS SHALL BE IN ACCORDANCE WITH CURRENT A.D.A. STANDARDS. MAXIMUM SIDEWALK GROSS SLOPE SHALL BE (2%) TWO PERCENT. PROVIDE A (5x5) FIVE FOOT BY FIVE FOOT LEVEL (2% Max.) LANDING AT THE TOP AND BOTTOM OF ALL RAMPS AND BUILDING ENTRANCES AND EXITS.
20. RECORDING REFERENCE: LIBER 142 FOLIO 137
21. OTHER TOPICS RELATED TO THIS SITE:
 - FOREST DELINEATION AND CONSERVATION... SEE PLAN SHEETS FC-1 AND FC-2 BY GUTSCHICK, LITTLE WEBER, P.A.
 - SEPTIC SYSTEM... SEE PLAN SHEETS S1-S5 BY McCRONE (20 RIGELY AVE., ANNAPOLIS, MD. 21401 TELE (410)269-0531 FILE NO. C1960035, MDE NO. 77-DC3223

22. SEPTIC SYSTEM PLANS ARE CONCEPTUAL, FULLY DETAILED PLANS TO BE SUBMITTED SEPARATELY PRIOR TO OBTAINANCE OF INSTALLATION PERMIT. ANY NEEDED MODIFICATION TO THE SEPTIC FIELD WILL NEED TO BE INCORPORATED AS A REDLINE ADJUSTMENT TO THIS SDP.

SITE ANALYSIS DATA CHART

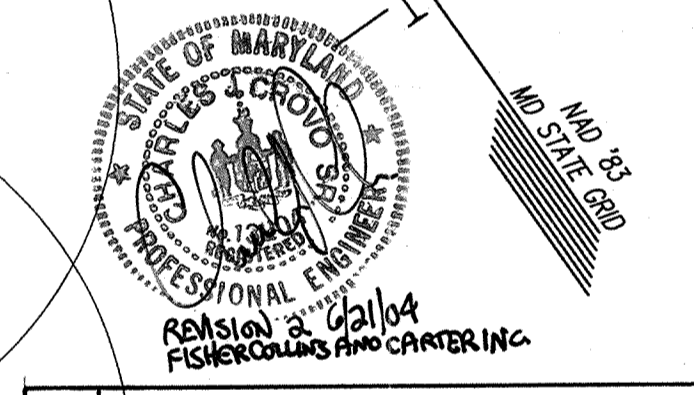
1. General Site Data
 - a. Present Zoning: RR-DEO
 - b. Proposed Use of Site or Structures: Institutional (Public School)
 - c. Private Water and Septic System
2. Area Tabulation
 - a. Total Project Area: 78.665± acres (gross)
 - b. Net Area of Site: 78.479 acres (less 0.186 acre For Steep Slope)
 - c. Area of This Plan Submission: 78.665± acres
 - d. Limit of Disturbed Area: 18.04 acres
 - e. Building Coverage of Site: 1.6± Acres and 1.96% of Gross Area (Proposed)
 - f. Building Area: 67,052 sq. ft. GFA
3. Open Space Data
 - a. Open Space Required on Site: N/A
 - b. Open Space Proposed: N/A
4. Parking Space Data
 - a. Number of Parking Spaces Required by Zoning Regulations: NA
 - b. Total Number of Parking Spaces Provided on Site: 97 Car Spaces & 14 Bus Spaces
 - c. Number of Handicapped Parking Spaces Provided: 4 (Including 1 Handicap Van Space)

APPROVED: FOR PRIVATE WATER & SEWERAGE SYSTEMS,
 HOWARD COUNTY HEALTH DEPARTMENT
 [Signature] 2-5-97
 County Health Officer

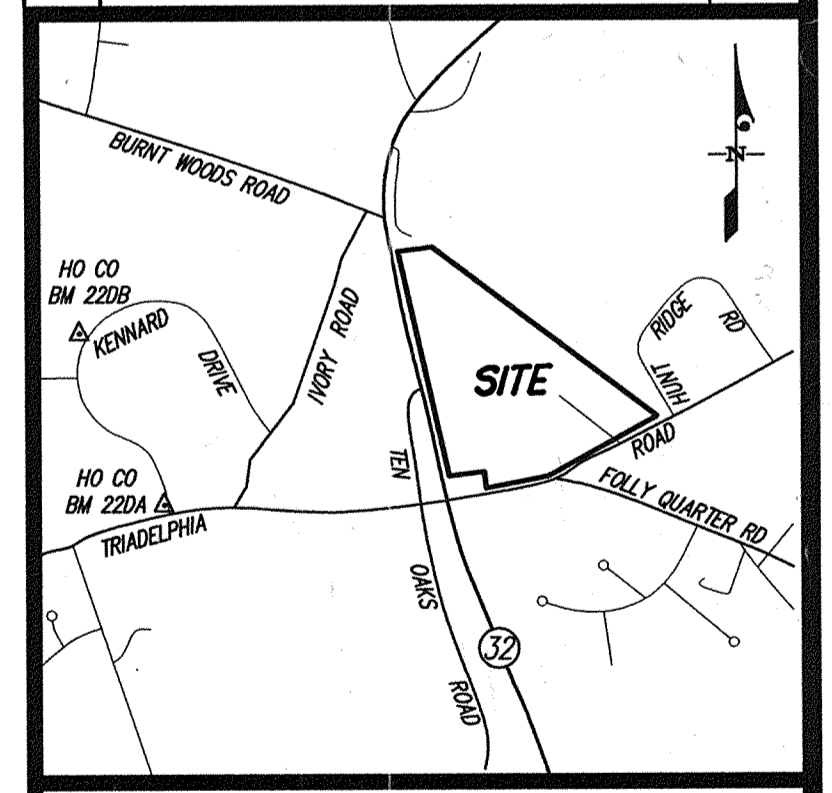
APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING
 [Signature] 2/6/97
 Date

[Signature] 2/6/97
 Date

[Signature] 1/30/97
 Date
 Chief, Development Engineering Division



No.	Revision	Date
2	Added modular classroom addition & covered walkway	2/12/97



SHEET INDEX

SHEET#	DESCRIPTION
1	COVER SHEET
2	SITE DEVELOPMENT PLAN (1:40 SCALE)
3	SITE DEVELOPMENT PLAN (1:40 SCALE)
4	LANDSCAPE PLAN (1:100 SCALE)
5	LANDSCAPE PLAN (1:40 SCALE)
6	LANDSCAPE PLAN (1:40 SCALE)
7	DEMOLITION PLAN
8	SEDIMENT CONTROL PLAN
9	SEDIMENT CONTROL PLAN
10	STORMWATER MANAGEMENT & SEDIMENT CONTROL NOTES
11	SEDIMENT & EROSION CONTROL DETAILS
12	STORMWATER MANAGEMENT & STORM DRAIN DRAINAGE AREA MAP
13	STORM DRAIN PROFILES
14	STORMWATER MANAGEMENT DETAIL SHEET
15	SITE DETAILS
16	SITE DETAILS

NOTE: FOR OTHER PLANS RELATED TO THIS SITE SEE GENERAL NOTE No. 21 ON THIS SHEET.

ADDRESS CHART				
PARCEL NUMBER	STREET ADDRESS	SECTION/AREA	TAX MAP	PARCEL #
6	13400 TRIADELPHIA ROAD			
SUBDIVISION NAME: HOSS: WESTERN ELEMENTARY SCHOOL No. 3				
L 142 F. 137	RR	TAX MAP 22	BLOCK 8	ELEC. DIST. 3

GLW GUTSCHICK LITTLE & WEBER, P.A.
 CIVIL ENGINEERS, SURVEYORS, PLANNERS, LANDSCAPE ARCHITECTS
 3909 NATIONAL DRIVE - SUITE 250 - BURTONSVILLE OFFICE PARK - BURTONSVILLE, MARYLAND 20866

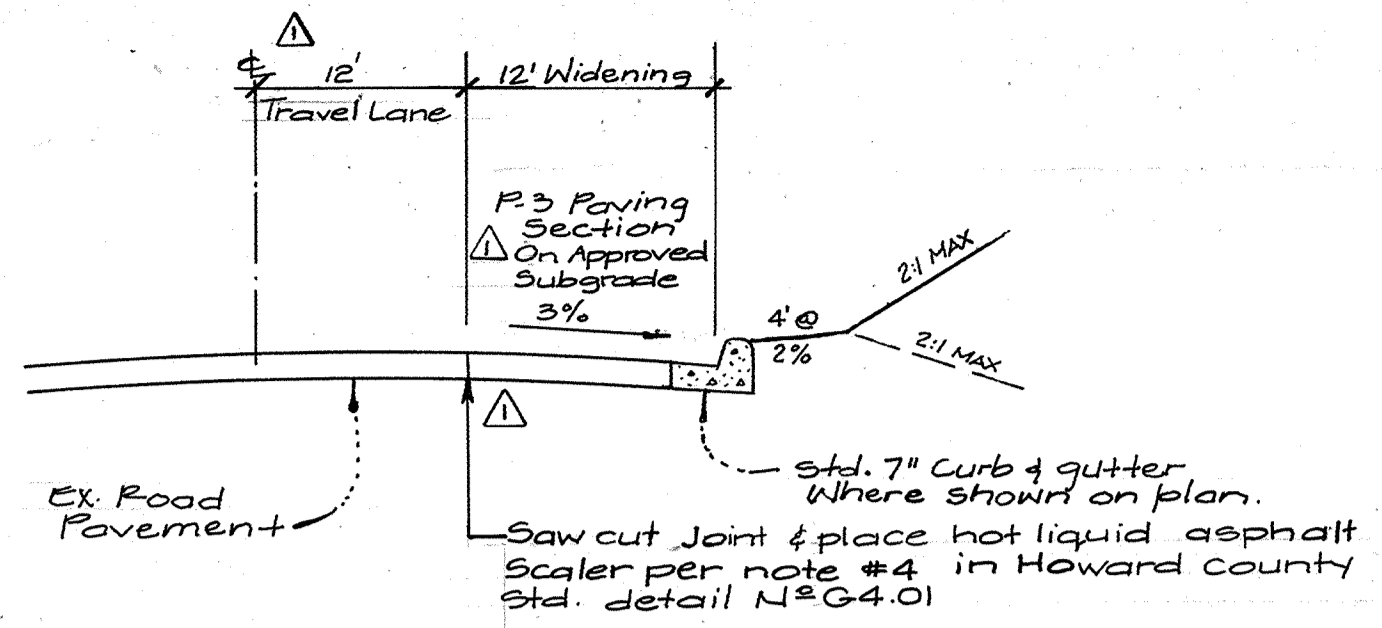
PREPARED FOR:
 HOWARD COUNTY PUBLIC SCHOOL SYSTEM
 10910 ROUTE 108
 ELLICOTT CITY, MARYLAND 21043
 PHONE: (410) 313-6805

COVER SHEET
WESTERN ELEMENTARY SCHOOL #3

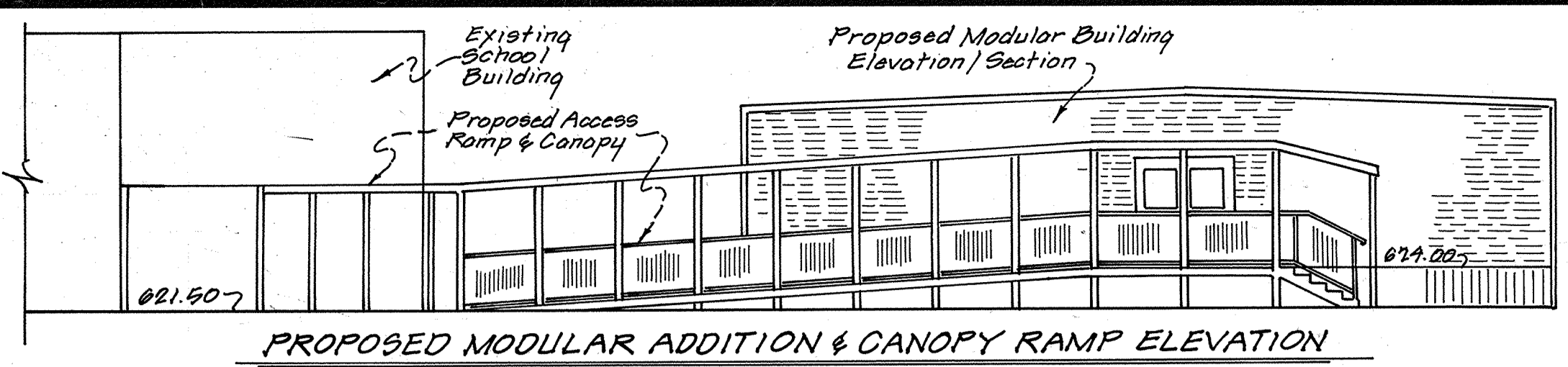
SCALE	ZONING	G. L. W. FILE No.
1" = 100'	RR	96012
DATE	TAX MAP No.	SHEET
1-02-97	22	C - 1 OF 16

TEL: (301) 421-4024 NO. VA: (301) 989-2524 BAL: (410) 880-1820 FAX: (301) 421-4186	DRN. SJC	CHK.	DATE	REVISION	BY	APP'R.

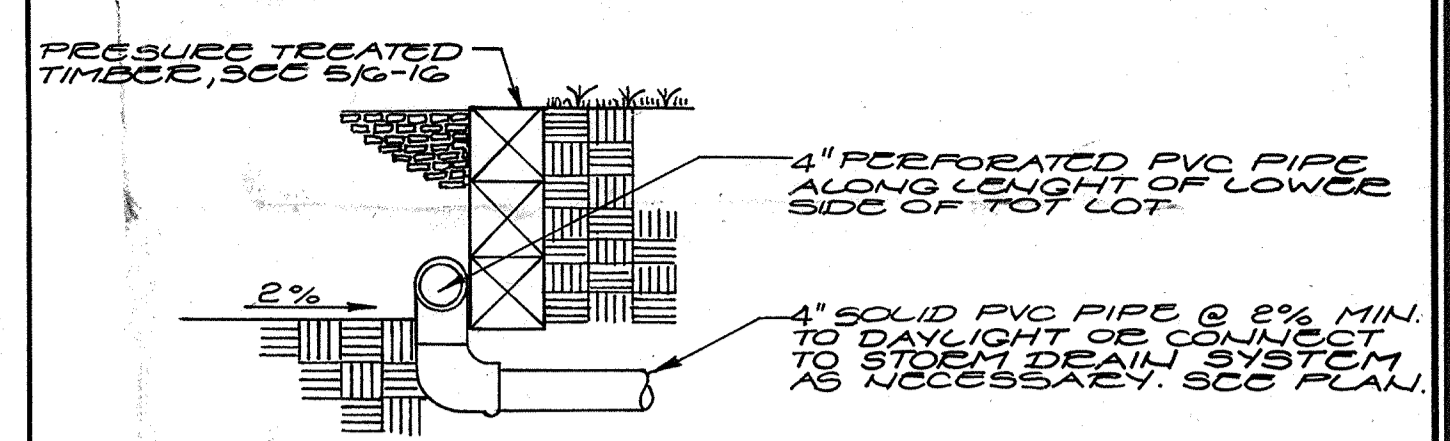
HOWARD COUNTY, MARYLAND



TRIADELPHIA ROAD WIDENING
Not to Scale
SEE ALSO H.C. STANDARD DET. NO. R40.01.

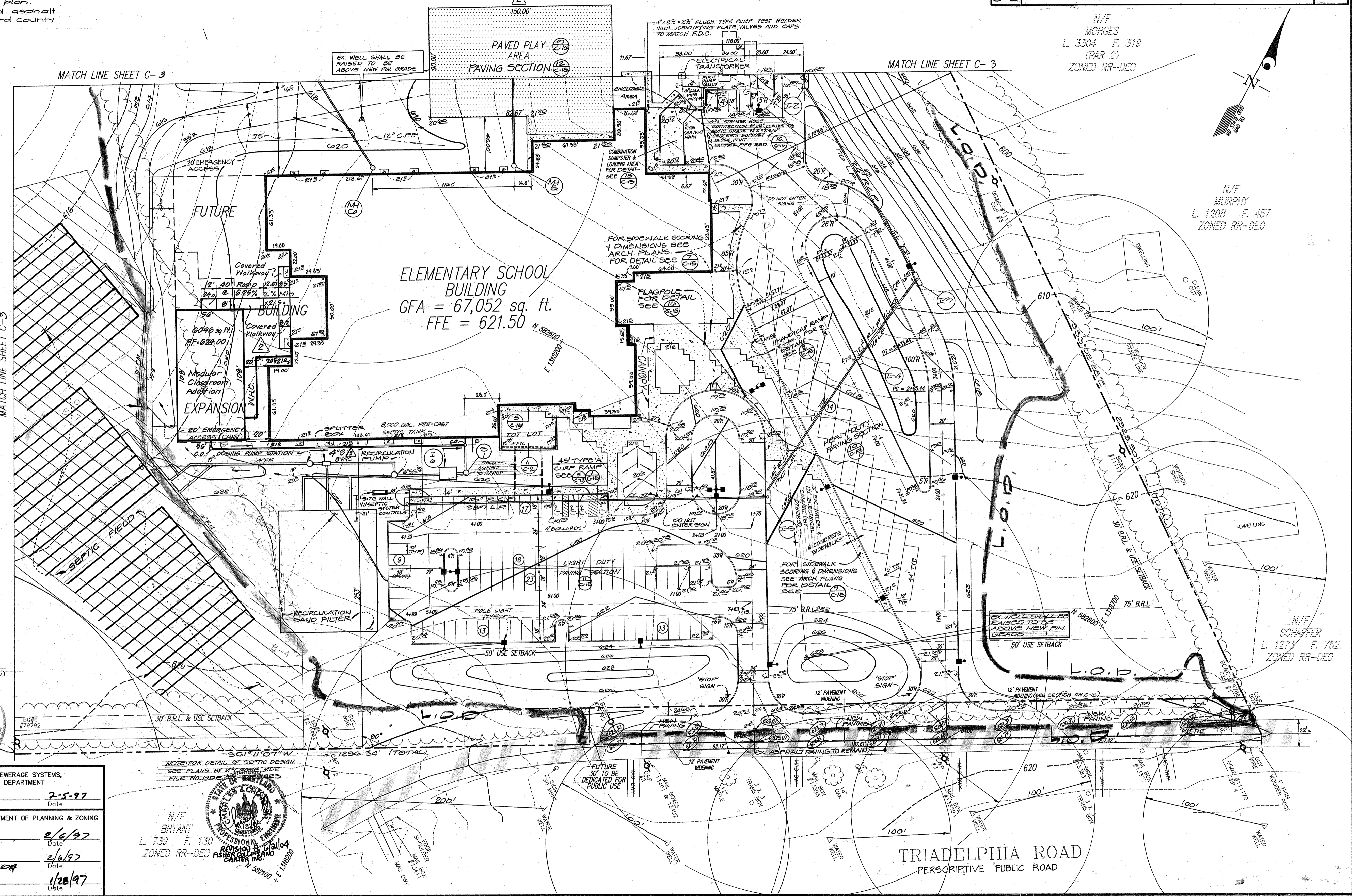


PROPOSED MODULAR ADDITION & CANOPY RAMP ELEVATION
No Scale



TOT LOT DRAINAGE DETAIL
NO SCALE

Note:
Elevation @ outside edge of 12' road widening is based on 3% cross slope from existing edge of road pavement. Surveyor shall verify existing edge of pavement elevation and adjust elevation @ outside edge of 12' widening as necessary to maintain 3% cross slope at stake-out stage.



- LEGEND**
- TYPICAL LIGHT
 - EXISTING PAVING
 - EXISTING SPOT ELEVATION
 - NEW SPOT ELEVATION
 - EXISTING CONTOUR
 - NEW GRADE
 - STANDARD 7" COMB. CURB & GUTTER
 - STANDARD 6" COMB. CURB & GUTTER
 - REVERSE 6" COMB. CURB & GUTTER
 - EXISTING TREES (SEE C-1 THRU C-3 FOR TRAPS TO BE REINSTALLED. NOTES DOES NOT INCLUDE CONSTRUCTION OF SEPTIC FIELDS OR DEMOLITION)
 - L.O.D. LIMIT OF DISTURBANCE
 - P.C. LOCATION THAT PASSED
 - P.C. LOCATION THAT FAILED

APPROVED: FOR PRIVATE WATER & SEWERAGE SYSTEMS,
HOWARD COUNTY HEALTH DEPARTMENT
Joyce M. Spalding, Esq. 2-5-97
County Health Officer Date

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING
Richard Blount 2/6/97
Chief, Division of Land Development Date

John Deane 1/28/97
Chief, Development Engineering Division Date

NOTE: FOR DETAIL OF SEPTIC DESIGN, SEE PLANS BY M. SCARLINE, M.P.E. FILE NO. H.C. 11-11-92-23

N/F BRYANT L. 738 F. 130 ZONED RR-DEC
PROFESSIONAL ENGINEER
STATE OF MARYLAND
EXPIRES 12/31/04
N 552100 E 131200

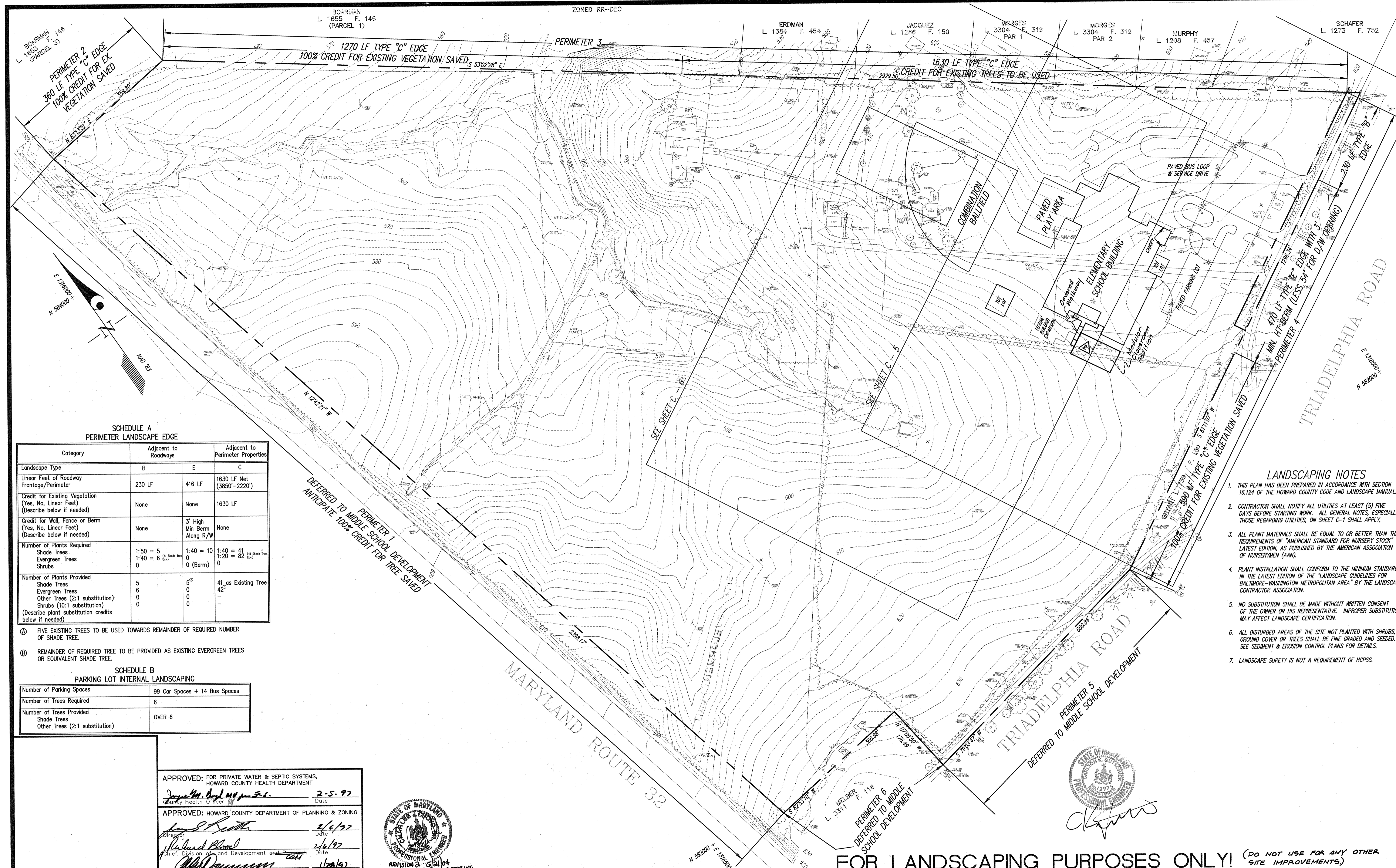
GLW GUTSCHICK LITTLE & WEBER, P.A.
CIVIL ENGINEERS, SURVEYORS, PLANNERS, LANDSCAPE ARCHITECTS
3909 NATIONAL DRIVE - SUITE 250 - BURTONSVILLE OFFICE PARK - BURTONSVILLE, MARYLAND 20866
TEL: (301) 421-4024 NO. VA.: (301) 989-2524 BALT. (410) 880-1820 FAX: (301) 421-4186 DES. DRN. S.G. CHK.

1-5-97	ADD MISC. NOTES AND LABELS TO TRIADELPHIA RD. WIDENING DETAIL	F.C.C.		
6-21-97	ADD modular classroom addition & covered walkway, also add proposed modular addition & canopy ramp elevation; add water & sewer service connections.			
DATE	REVISION	BY	APP'R.	

PREPARED FOR:
HOWARD COUNTY PUBLIC SCHOOL SYSTEM
10010 ROUTE 108
ELICOTT CITY, MARYLAND 21043
PHONE: (410) 313-6805

SITE DEVELOPMENT PLAN
WESTERN ELEMENTARY SCHOOL No. 3
WEST FRIENDSHIP ELECTION DISTRICT No. 3
HOWARD COUNTY, MARYLAND

SCALE 1" = 40'	ZONING RR	G. L. W. FILE No. 96012
DATE 1-02-97	TAX MAP No. 22	SHEET C-2 OF 16



SCHEDULE A
PERIMETER LANDSCAPE EDGE

Category	Adjacent to Roadways	Adjacent to Perimeter Properties
Landscape Type	B	E
Linear Feet of Roadway Frontage/Perimeter	230 LF	416 LF
Credit for Existing Vegetation (Yes, No, Linear Feet) (Describe below if needed)	None	1630 LF
Credit for Wall, Fence or Berm (Yes, No, Linear Feet) (Describe below if needed)	None	3' High Min Berm Along R/W
Number of Plants Required		
Shade Trees	1:50 = 5	1:40 = 10
Evergreen Trees	1:40 = 6	1:20 = 8
Shrubs	0	0 (Berm)
Number of Plants Provided		
Shade Trees	5	41 as Existing Tree
Evergreen Trees	6	42
Other Trees (2:1 substitution)	0	0
Shrubs (10:1 substitution)	0	0

- Ⓐ FIVE EXISTING TREES TO BE USED TOWARDS REMAINDER OF REQUIRED NUMBER OF SHADE TREE.
- Ⓑ REMAINDER OF REQUIRED TREE TO BE PROVIDED AS EXISTING EVERGREEN TREES OR EQUIVALENT SHADE TREE.

SCHEDULE B
PARKING LOT INTERNAL LANDSCAPING

Number of Parking Spaces	99 Car Spaces + 14 Bus Spaces
Number of Trees Required	6
Number of Trees Provided	OVER 6
Shade Trees	
Other Trees (2:1 substitution)	

APPROVED: FOR PRIVATE WATER & SEPTIC SYSTEMS,
HOWARD COUNTY HEALTH DEPARTMENT
Joyce M. Boyd 2-5-97
County Health Officer Date

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING
Robert Blount 2/6/97
Chief, Division of Planning & Zoning Date

Michael Blount 2/6/97
Chief, Development Engineering Division Date



LANDSCAPING NOTES

1. THIS PLAN HAS BEEN PREPARED IN ACCORDANCE WITH SECTION 16.124 OF THE HOWARD COUNTY CODE AND 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 C-1 SHALL APPLY.
3. ALL PLANT MATERIALS SHALL BE EQUAL TO OR BETTER THAN THE REQUIREMENTS OF "AMERICAN STANDARD FOR NURSERY STOCK" LATEST EDITION, AS PUBLISHED BY THE AMERICAN ASSOCIATION OF NURSEYMEN (AAN).
4. PLANT INSTALLATION SHALL CONFORM TO THE MINIMUM STANDARDS IN THE LATEST EDITION OF THE "LANDSCAPE GUIDELINES FOR BALTIMORE-WASHINGTON METROPOLITAN AREA" BY THE LANDSCAPE CONTRACTOR ASSOCIATION.
5. NO SUBSTITUTION SHALL BE MADE WITHOUT WRITTEN CONSENT OF THE OWNER OR HIS REPRESENTATIVE. IMPROPER SUBSTITUTION MAY AFFECT LANDSCAPE CERTIFICATION.
6. ALL DISTURBED AREAS OF THE SITE NOT PLANTED WITH SHRUBS, GROUND COVER OR TREES SHALL BE FINE GRADED AND SEEDED. SEE SEDIMENT & EROSION CONTROL PLANS FOR DETAILS.
7. LANDSCAPE SURETY IS NOT A REQUIREMENT OF HOPSS.

FOR LANDSCAPING PURPOSES ONLY! (DO NOT USE FOR ANY OTHER SITE IMPROVEMENTS)

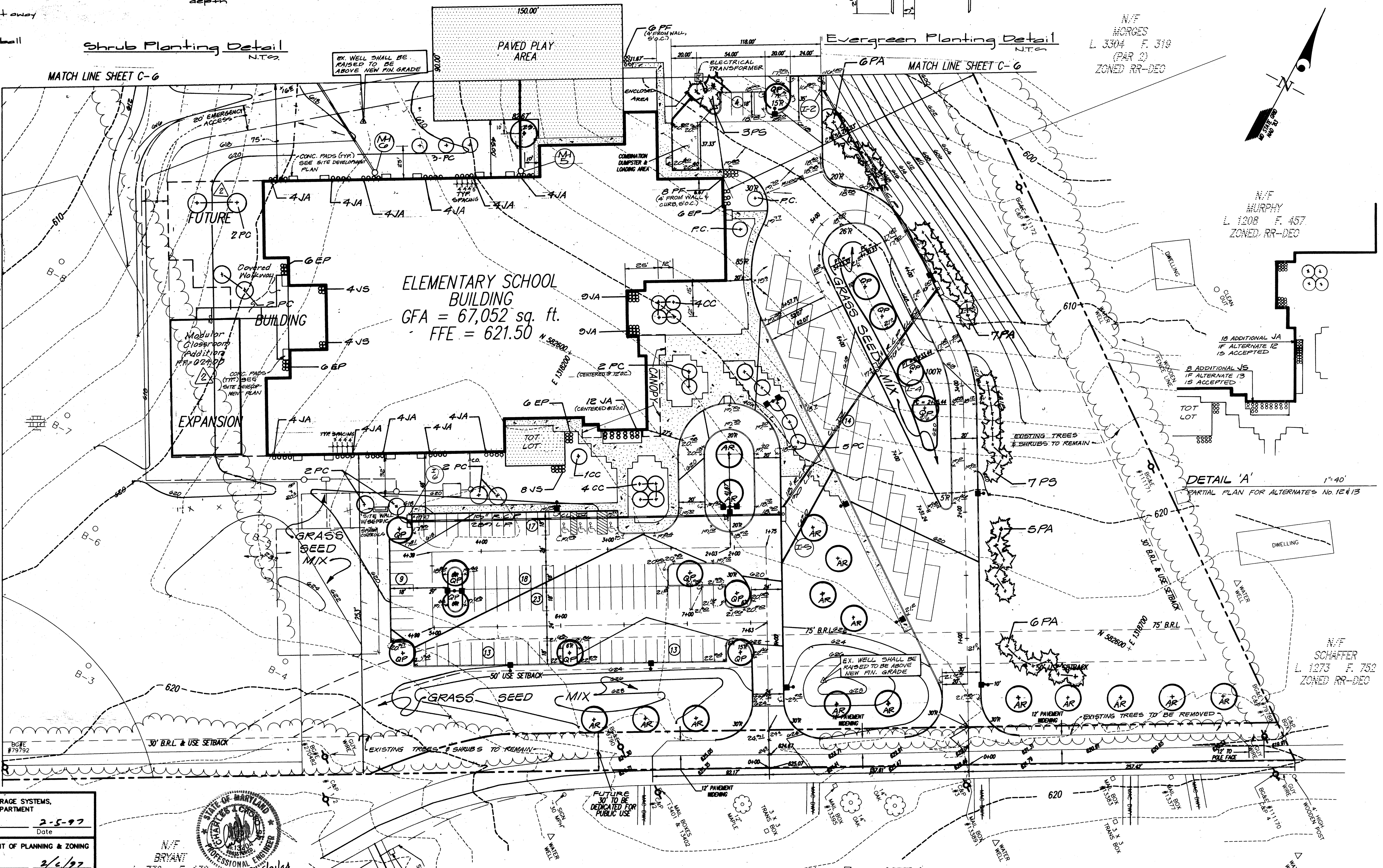
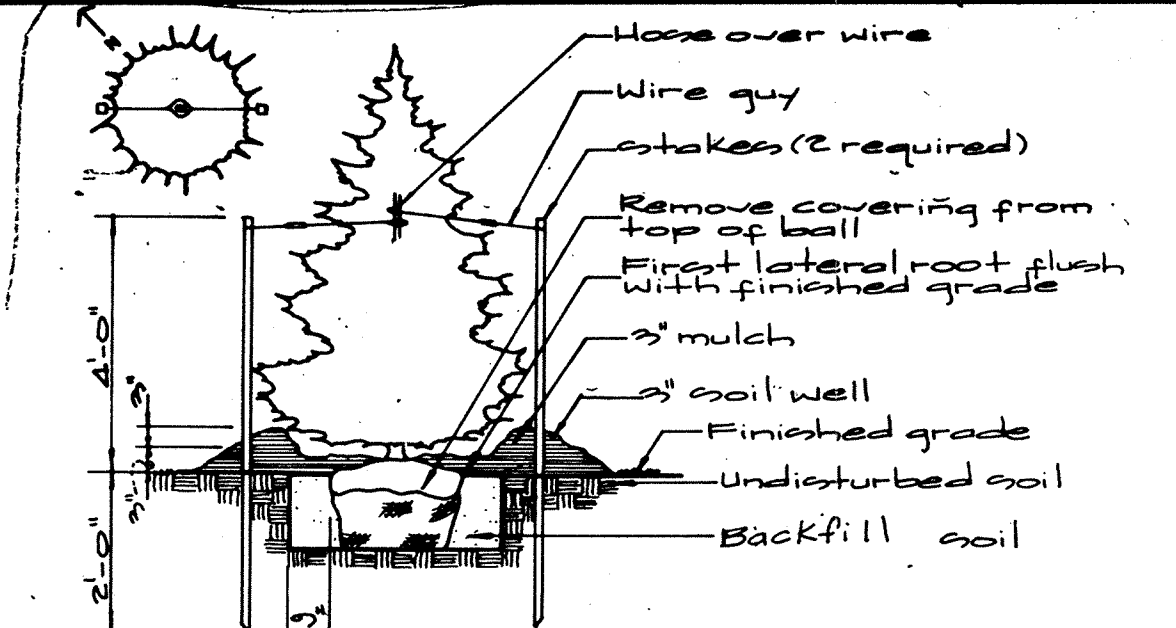
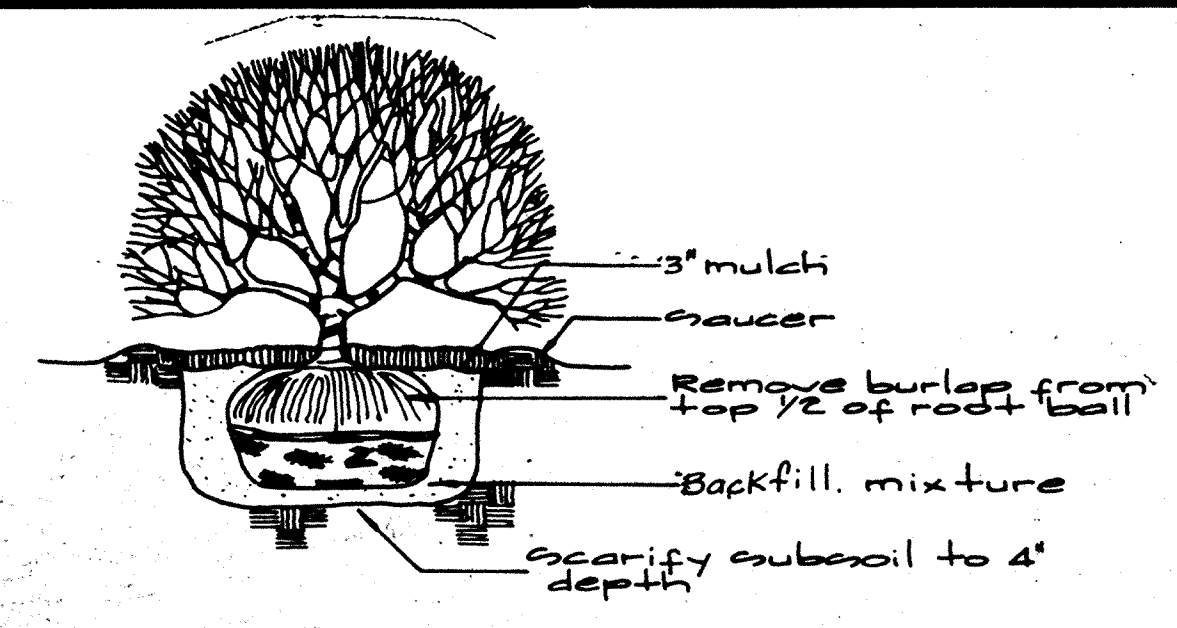
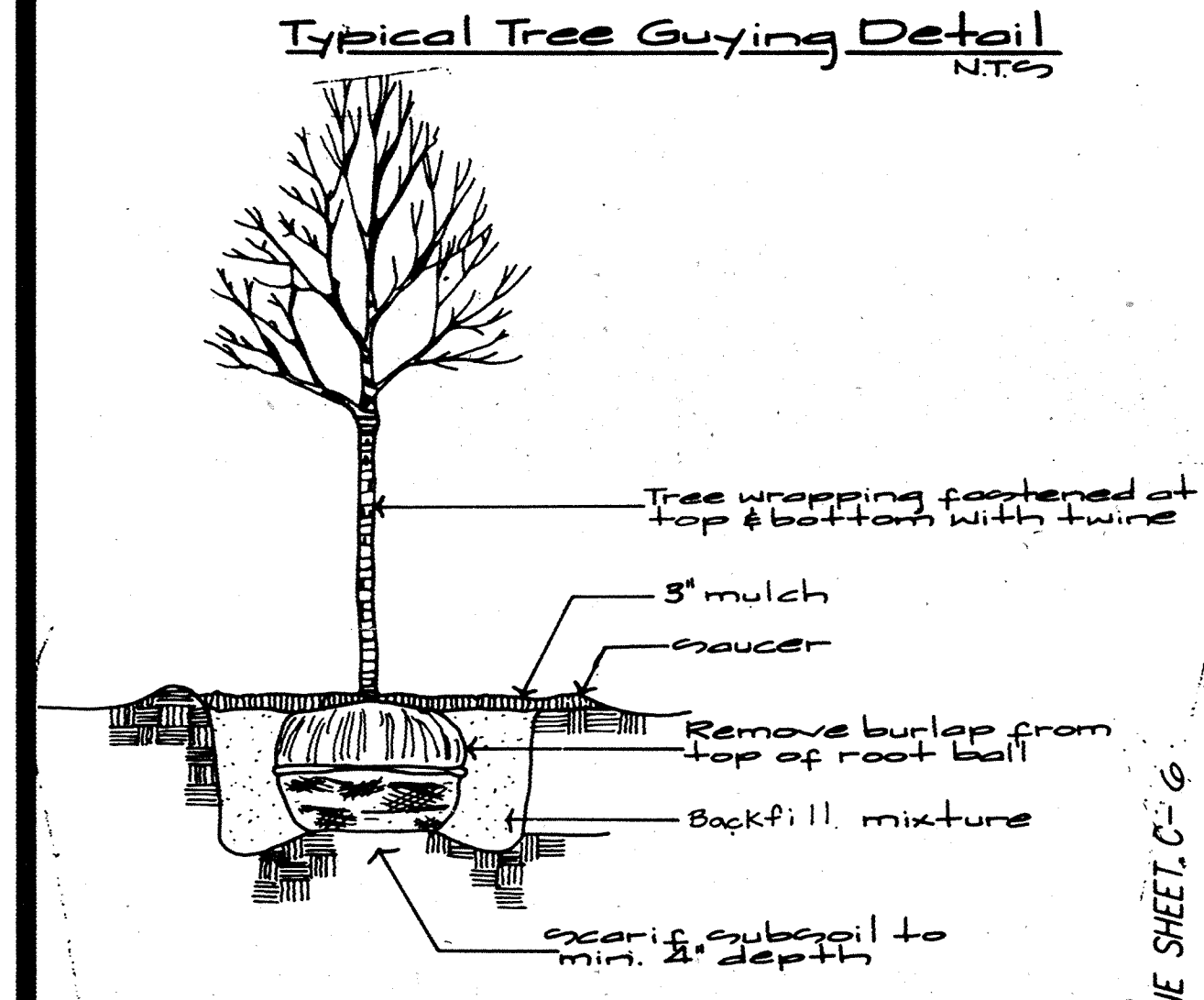
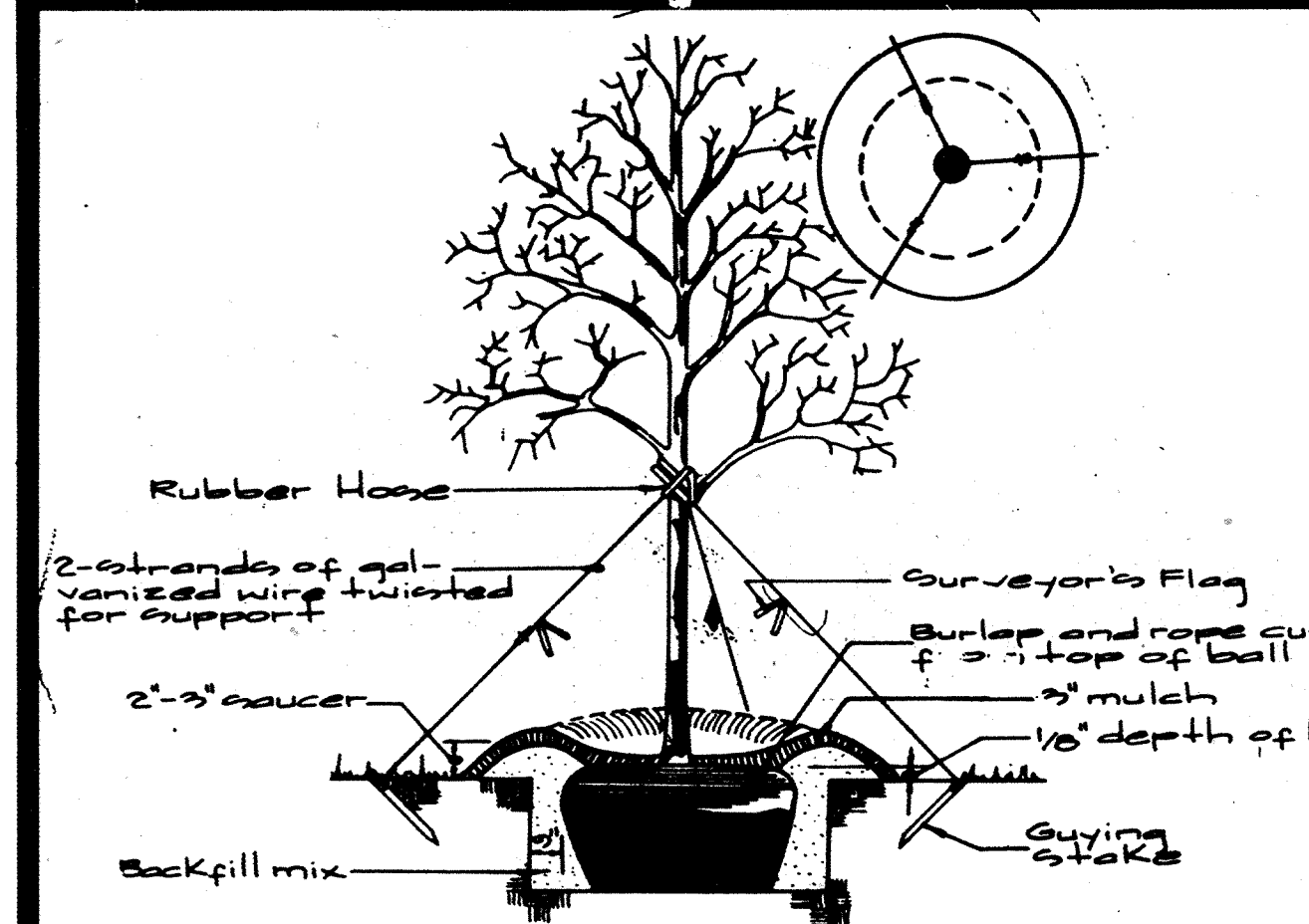
GLW GUTSCHICK LITTLE & WEBER, P.A.
CIVIL ENGINEERS, SURVEYORS, PLANNERS, LANDSCAPE ARCHITECTS
3909 NATIONAL DRIVE - SUITE 250 - BURTONSVILLE OFFICE PARK - BURTONSVILLE, MARYLAND 20866
TEL: (301) 421-4024 NO. VA: (301) 989-2524 BAL: (410) 880-1820 FAX: (301) 421-4186 DES. DRN. SJC CHK.

DATE	REVISION	BY	APPR.
6-21-04	Added modular classroom addition & covered walkway		FCC

PREPARED FOR:
HOWARD COUNTY PUBLIC SCHOOL SYSTEM
10910 ROUTE 108
ELlicott CITY, MARYLAND 21043
PHONE: (410) 313-6805

LANDSCAPE PLAN
WESTERN ELEMENTARY SCHOOL #3
WEST FRIENDSHIP ELECTION DISTRICT No. 3
HOWARD COUNTY, MARYLAND

SCALE	ZONING	G. L. W. FILE No.
1" = 100'	RR	96012
DATE	TAX MAP No.	SHEET
1-02-97	22	C-4 OF 16



LEGEND

- STANDARD 7" CONC. CURB & GUTTER
- STANDARD 6" CONC. CURB & GUTTER
- REVERSE 6" CONC. CURB & GUTTER

APPROVED: FOR PRIVATE WATER & SEWERAGE SYSTEMS,
 HOWARD COUNTY HEALTH DEPARTMENT
 County Health Officer *[Signature]* Date 2-5-97

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING
 Director *[Signature]* Date 2/6/97
 Chief, Division of Land Development *[Signature]* Date 2/6/97
 Chief, Development Engineering Division *[Signature]* Date 1/20/97

N/F BRYANT
 L 739 F. 130 REVISION 2/6/97
 ZONED RR-DEC FISHER COLLINS AND PARTNER INC.
 N 58200 F. 130000

TRIADELPHIA ROAD PUBLIC R/W
FOR LANDSCAPING PURPOSES ONLY! (Do Not use For Any Other Site Improvements)

GLW GUTSCHICK LITTLE & WEBER, P.A.
 CIVIL ENGINEERS, SURVEYORS, PLANNERS, LANDSCAPE ARCHITECTS
 3909 NATIONAL DRIVE - SUITE 250 - BURTONSVILLE OFFICE PARK - BURTONSVILLE, MARYLAND 20866
 TEL: (301) 421-4224 NO. VA: (301) 989-2524 DALLAS: (410) 880-1820 FAX: (301) 421-4186 DES. DRN. SAC. CHK.

DATE	REVISION	BY	APPR.
	G-21-0A Added modular classroom addition & covered walkway, relocated		FCG

PREPARED FOR:
 HOWARD COUNTY PUBLIC SCHOOL SYSTEM
 10810 ROUTE 108
 ELICOTT CITY, MARYLAND 21043
 PHONE: (410) 313-6805

LANDSCAPE PLAN
WESTERN ELEMENTARY SCHOOL No. 3
 WEST FRIENDSHIP ELECTRON DISTRICT No. 3
 HOWARD COUNTY, MARYLAND

SCALE	ZONING	G. L. W. FILE No.
1" = 40'	RR	96012
DATE	TAX MAP No.	SHEET
1-02-97	22	C-5 Of 16

MODULAR CLASSROOM ADDITION CONSTRUCTION SEQUENCE

1. Obtain grading permit.
2. Install Sediment Control measures and receive permission from the Sediment Control Inspector to proceed with grading for the Modular Classroom Addition.
3. Construct Modular Classroom Addition and Walkways.
4. Upon completion of fine grading, all disturbed areas shall be stabilized immediately.
5. When the contributing areas to the Sediment Control devices have been stabilized and with permission of the Sediment Control Inspector the devices may be removed and these disturbed areas stabilized.
6. Notify Howard County Office of Inspections and Permits for final inspection.

Reviewed for HOWARD S.C.D. Name: *John M. Abston* Date: *6/22/94*
 and meets Technical Requirements of the Date: *6/22/94*
 Signature: *John M. Abston*
 USDA, NATURAL RESOURCES CONSERVATION SERVICE

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

Approved: *John M. Abston* Date: *6/22/94*
 Howard S.C.D.

ENGINEER'S CERTIFICATE

I certify that this plan for pond construction, erosion and sediment control represents a practical and workable plan based on my personal knowledge of the site conditions. This plan was prepared in accordance with the requirements of the Howard Soil Conservation District. I have notified the developer that he/she must engage a registered professional engineer to supervise pond construction and provide the Howard Soil Conservation District with an "as-built" plan of the pond within 30 days of completion.

John M. Abston 10-22-94
 Date



DEVELOPER'S/BUILDER'S CERTIFICATE

I/We certify that all development and/or construction will be done according to these plans, 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 shall engage a registered Professional Engineer to supervise pond construction and provide the Howard Soil Conservation District with an "as-built" plan of the pond within 30 days of completion. I also authorize periodic on-site inspections by the Howard Soil Conservation District.

Cathleen Conley Young 10/22/94
 Signature of Developer/Builder Date

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

Robert W. Ziehm 1/23/97
 Howard Soil Conservation District Date

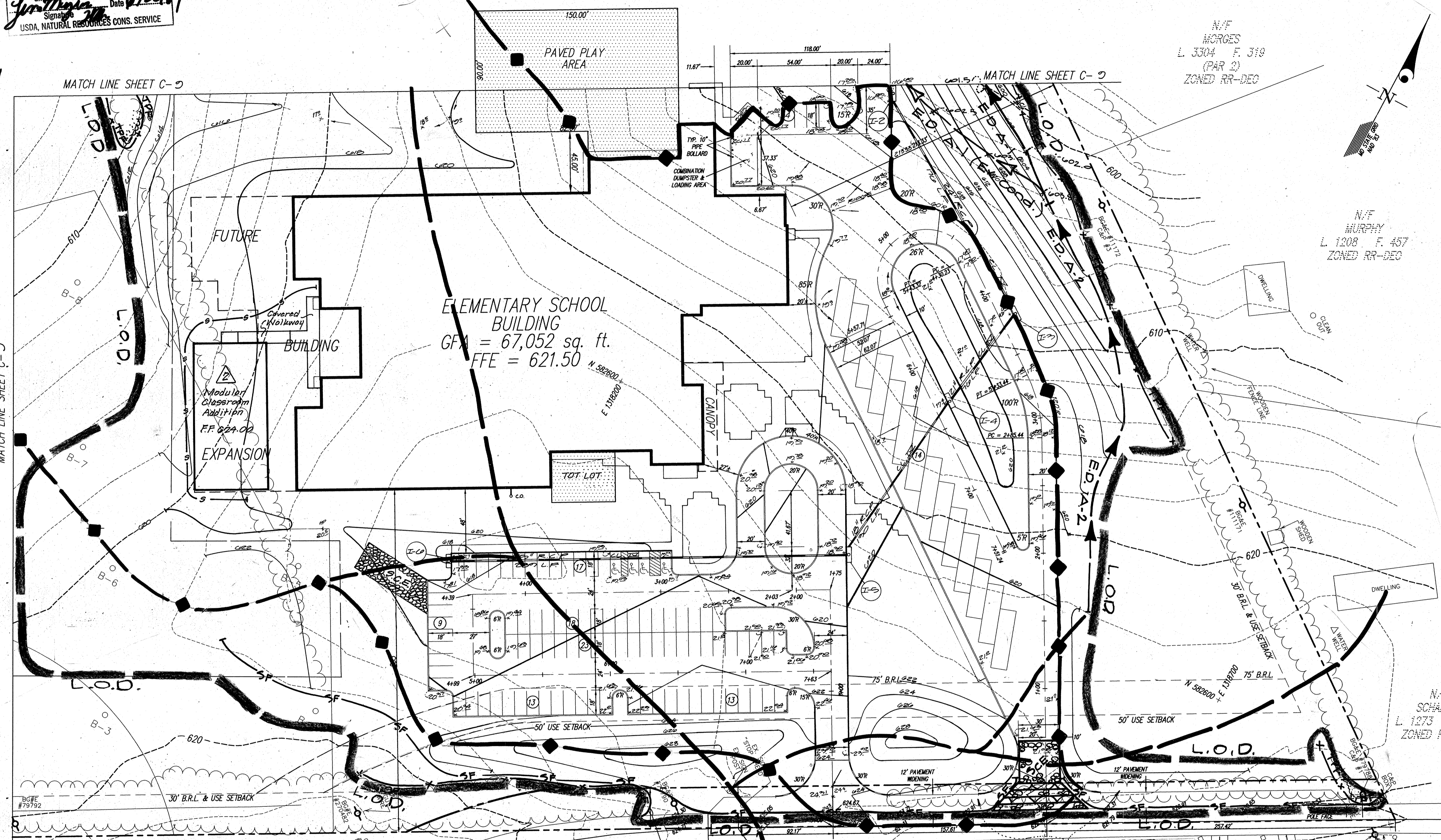
These plans have been reviewed for the Howard Soil Conservation District and meet the technical requirements for small pond construction, soil erosion and sediment control.

Cheryl J. Daimore 01-23-97
 Natural Resources Conservation Service Date

Legend

- Ex. Contour: --- 0.12 ---
- Prop. Contour: --- 0.12 ---
- Silt Fence: SF
- Super Silt Fence: SSF
- Earth Dike: E.D.A.
- Limit of Disturbance: L.O.D.*
- Tree Protection Fence: TPE
- Before Conditions D.A.
- After Conditions D.A.
- Combined Before & After Conditions D.A.
- Stabilized Construction Entrance: S.C.E.

* Does not include construction of septic fields or demolition.



APPROVED: FOR PRIVATE WATER & SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT
James M. Boyd 2-5-97
 County Health Officer Date

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING
Richard Blum 2/6/97
 Director Date

Richard Blum 2/6/97
 Chief, Division of Land Development Date

John M. Abston 1/20/97
 Chief, Development Engineering Division Date

N/F BRYANT
 L. 739 F. 130
 ZONED RR-DEC
 PROFESSIONAL ENGINEER
 REVISION 2/21/04
 FISHER COLLINS AND COMPANY, INC.
 N 582100 E 130800

GLW GUTSCHICK LITTLE & WEBER, P.A.
 CIVIL ENGINEERS, SURVEYORS, PLANNERS, LANDSCAPE ARCHITECTS
 3909 NATIONAL DRIVE - SUITE 250 - BURTONSVILLE, OFFICE PARK - BURTONSVILLE, MARYLAND 20866

DATE	REVISION	BY	APPR.
6-21-04	Added modular classroom addition & covered walkway; added construction sequence.		F.C.C.

PREPARED FOR:
 HOWARD COUNTY PUBLIC SCHOOL SYSTEM
 10910 ROUTE 108
 ELLICOTT CITY, MARYLAND 21043
 PHONE: (410) 313-6805

TRIADELPHIA ROAD PUBLIC R/W
"For Sediment & Erosion Control Only."
 Sediment Control Plan
WESTERN ELEMENTARY SCHOOL No. 3

SCALE	ZONING	G. L. W. FILE No.
1" = 40'	RR	96012
DATE	TAX MAP No.	SHEET
1-02-97	22	C-8 of 10

TEL: (301) 421-4024 NO. VA.: (301) 989-2524 BALT. (410) 880-1820 FAX: (301) 421-4186 DES. DRN. SAG CHK.

WEST FRIENDSHIP ELECTION DISTRICT No. 3 HOWARD COUNTY, MARYLAND



NOTE: DRAINAGE IN THIS AREA NOT INCLUDED IN SWM STUDY DUE TO A DECREASE IN D.A. CAUSED BY A CHANGE IN COVER TYPE WHICH RESULTS IN A LOWER RUNOFF COEFFICIENT.

NOTE: DRAINAGE IN THIS AREA NOT INCLUDED IN SWM STUDY SINCE THERE IS NO CHANGE IN COVER TYPE.

- LEGEND:**
- 332 --- EX. CONTOUR
 - 332 --- PROP. CONTOUR
 - EX. DRAINAGE DIVIDE
 - PROP. DRAINAGE DIVIDE
 - EX. & PROP. DRAINAGE DIVIDE
 - A B C TIME OF CONCENTRATION (T.C.) PATH
 - SOILS DELINEATION
 - STORM DRAIN D.A. DELINEATION

STORM DRAIN D.A. TABLE:

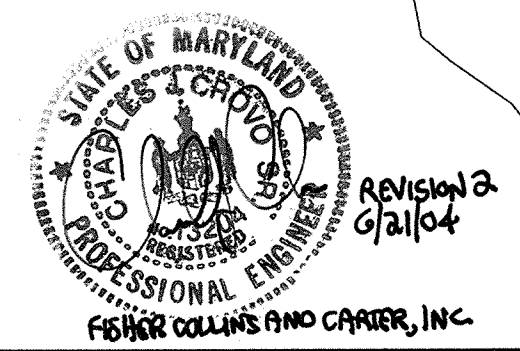
DA No.	A ₂	A ₃	A ₁	C
1	0.55 Ac.	0.65 Ac.	1.20 Ac.	0.60
2	0.35 Ac.	0.25 Ac.	0.60 Ac.	0.67
3	0.40 Ac.	0.45 Ac.	1.05 Ac.	0.56
4	0.42 Ac.	0.23 Ac.	0.65 Ac.	0.71
5	0.17 Ac.	0.08 Ac.	0.22 Ac.	0.78
6	0.25 Ac.	0.40 Ac.	0.65 Ac.	0.54
7	0.77 Ac.	---	0.77 Ac.	0.90
8	0.80 Ac.	---	0.80 Ac.	0.90

ROOF DRAINS

A₂ - AREA OF PAVEMENT
 A₃ - AREA OF GRASS
 A₁ - TOTAL AREA

APPROVED: FOR PRIVATE WATER & SEPTIC SYSTEMS,
 HOWARD COUNTY HEALTH DEPARTMENT
 County Health Officer *John M. Reynolds* 2-5-97
 Date

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING
 Director *David S. Smith* 2/6/97
 Date
 Chief, Division of Land Development *William B. Blood* 2/6/97
 Date
 Chief, Development Engineering Division *Chris D. ...* 1/28/97
 Date



SOILS DATA

SYMBOLS	NAME	TYPE
E ₂	BAILE SILT LOAM	D
ChA, ChB2	CHESTER SILT LOAM	B
ChC3	SILT LOAM	B
CgB2	GRAVELLY SILT LOAM	D
CgC2	GRAVELLY SILT LOAM	D
GIC2	GLENELG LOAM	B
GLC2	LOAM	B
GLD2	LOAM	B
GrB2	GLENVILLE SILT LOAM	C
MLB2	MANOR LOAM	B
MIL2	LOAM	B
MgC2	GRAVELLY LOAM	B

GLW GUTSCHICK LITTLE & WEBER, P.A.
 CIVIL ENGINEERS, SURVEYORS, PLANNERS, LANDSCAPE ARCHITECTS
 3909 NATIONAL DRIVE - SUITE 250 - BURTONSVILLE OFFICE PARK - BURTONSVILLE, MARYLAND 20866
 TEL: (301) 421-4024 NO. VA: (301) 989-2524 BALT: (410) 680-1820 FAX: (301) 421-4186 DES. DRN. S.J.G. CHK.

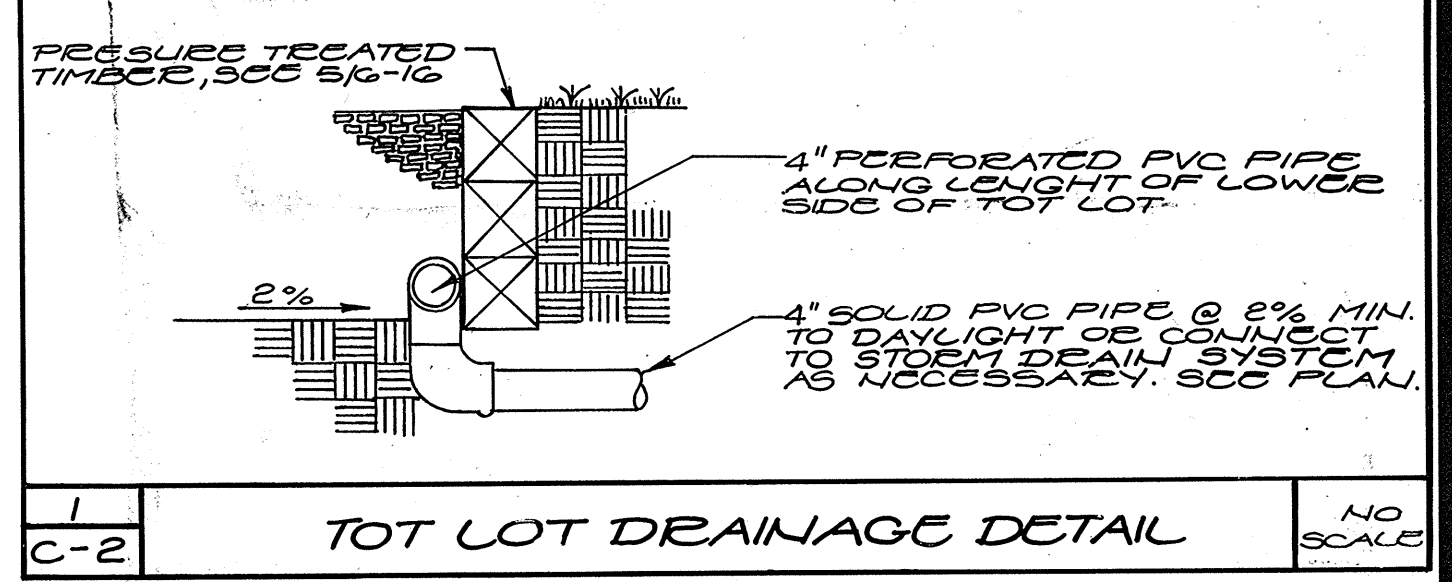
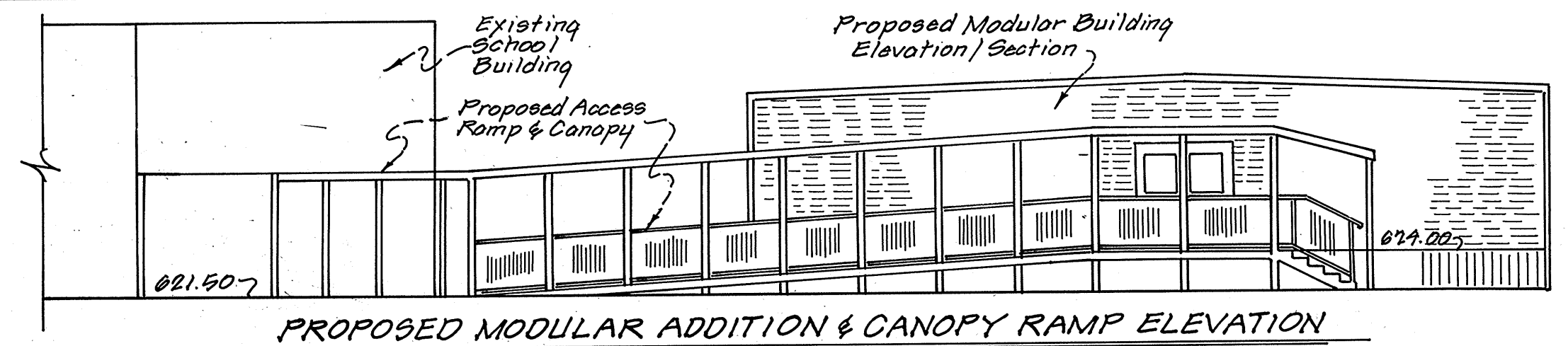
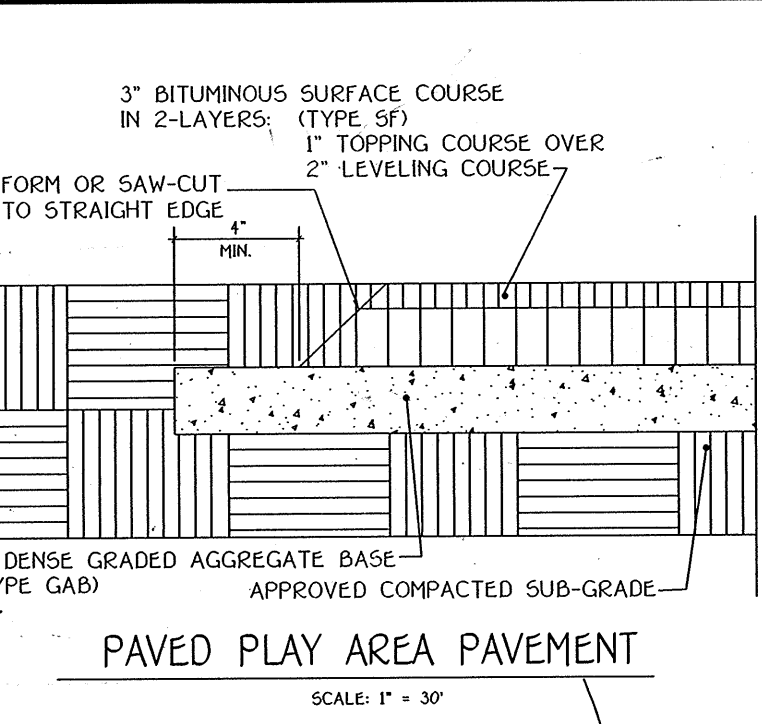
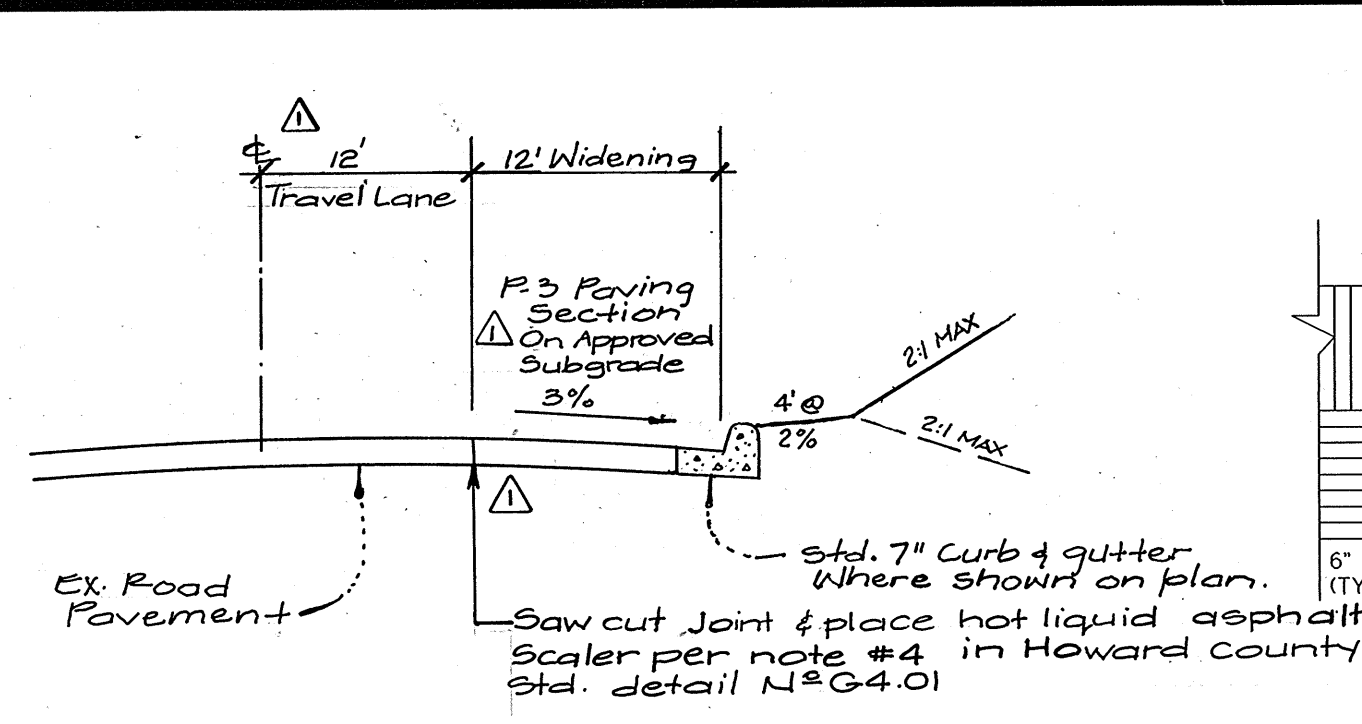
DATE	REVISION	BY	APPR.
6-21-04	Added modular classroom addition & covered walkway	FCC	

PREPARED FOR:
 Howard County Public Schools
 c/o Thomas Clark Associates
 Architects
 2061 Riva Road, Suite 120
 Annapolis, Md 21041
 (301) 241-8100
 (410) 240-1122

STORMWATER MANAGEMENT & STORM DRAIN DRAINAGE AREA MAP
WESTERN ELEMENTARY SCHOOL #3
 LIBER 142 FOLIO 137
 WEST FRIENDSHIP ELECTION DISTRICT No. 3
 HOWARD COUNTY, MARYLAND

SCALE	ZONING	G. L. W. FILE No.
1" = 100'	RR	96012
DATE	TAX MAP No.	SHEET
1-02-97	22	C-12 OF 16

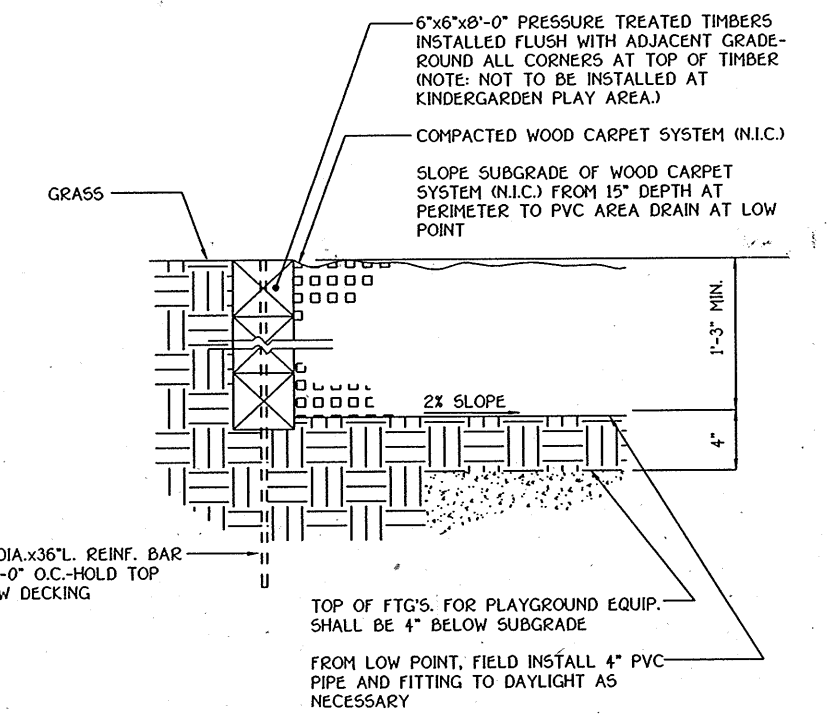
SDP 97 46



TRIADELPHIA ROAD WIDENING
Not to Scale

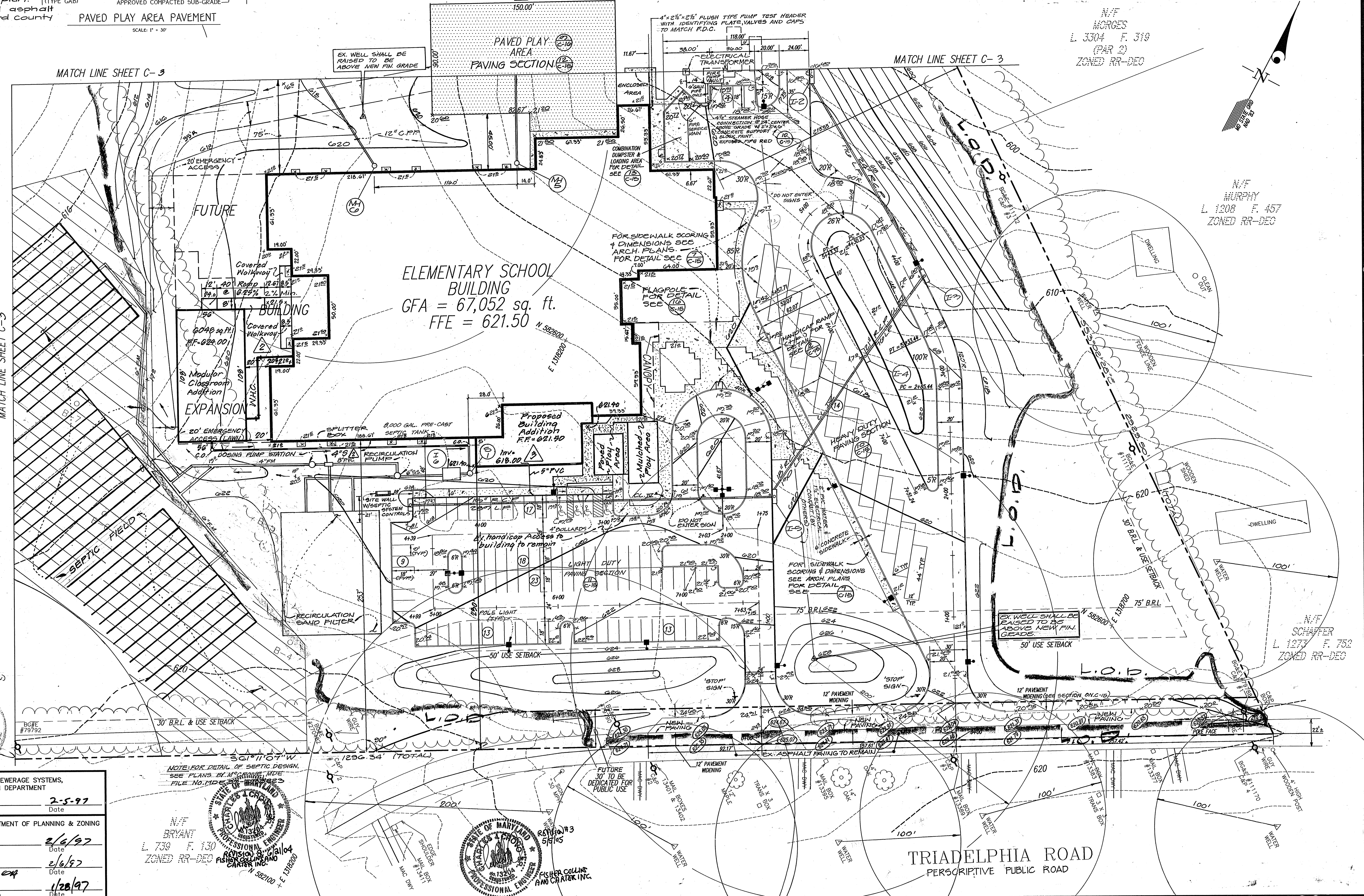
SEE ALSO H.O.C. STANDARD DET. NO. RD-01.

Note:
Elevation @ outside edge of 12' road widening is based on 3% cross slope from existing edge of road pavement. Surveyor shall verify existing edge of pavement elevation and adjust elevation @ outside edge of 12' widening as necessary to maintain 3% cross slope at stake-out stage.



LEGEND

- TYPICAL LIGHT
- EXISTING PAVING
- EXISTING SPOT ELEVATION
- NEW SPOT ELEVATION
- EXISTING CONTOUR
- NEW GRADE
- STANDARD 7" COMB. CURB & GUTTER
- STANDARD 4" COMB. CURB & GUTTER
- REVERSE 4" COMB. CURB & GUTTER
- EXISTING TREES (SEE C-7 THRU C-9 FOR TREES TO BE REMOVED. NOTE: DOES NOT INCLUDE CONSTRUCTION OF SEPTIC FIELDS OR DEMOLITION)
- L.O.D. LIMIT OF DISTURBANCE
- PERC LOCATION THAT PASSED
- PERC LOCATION THAT FAILED



GLW GUTSCHICK LITTLE & WEBER, P.A.
CIVIL ENGINEERS, SURVEYORS, PLANNERS, LANDSCAPE ARCHITECTS
3909 NATIONAL DRIVE - SUITE 250 - BURTONSVILLE OFFICE PARK - BURTONSVILLE, MARYLAND 20866
TEL: (301) 421-4024 NO. VA: (301) 989-2524 BAL: (410) 880-1820 FAX: (301) 421-4186 DES. DRN. SAC CHK.

DATE	REVISION	BY	APP'R.
1-5-97	ADD HISC. NOTES AND LABELS TO TRIADELPHIA RD. WIDENING DETAIL		
6-21-04	ADD modular classroom addition & covered walkway; also add proposed modular addition & canopy ramp elevation; add water & sewer service connections		F.C.C.
5-5-05	ADD full day kindergarten addition; paved & asphalt play areas & detail & concrete sidewalks		F.C.C.

PREPARED FOR:
HOWARD COUNTY PUBLIC SCHOOL SYSTEM
10910 ROUTE 108
ELLCOTT CITY, MARYLAND 21043
PHONE: (410) 313-6805

SITE DEVELOPMENT PLAN
WESTERN ELEMENTARY SCHOOL No. 3
WEST FRIENDSHIP ELECTION DISTRICT No. 3
HOWARD COUNTY, MARYLAND

SCALE	ZONING	G. L. W. FILE No.
1" = 40'	RR	96012
DATE	TAX MAP No.	SHEET
1.02.97	22	C-2 of 16



- LEGEND:**
- 632 --- EX. CONTOUR
 - 382 --- PROP. CONTOUR
 - EX. DRAINAGE DIVIDE
 - PROP. DRAINAGE DIVIDE
 - EX. & PROP. DRAINAGE DIVIDE
 - TIME OF CONCENTRATION (TC) PATH
 - SOILS DELINEATION
 - STORM DRAIN D.A. DELINEATION

STORM DRAIN D.A. TABLE:

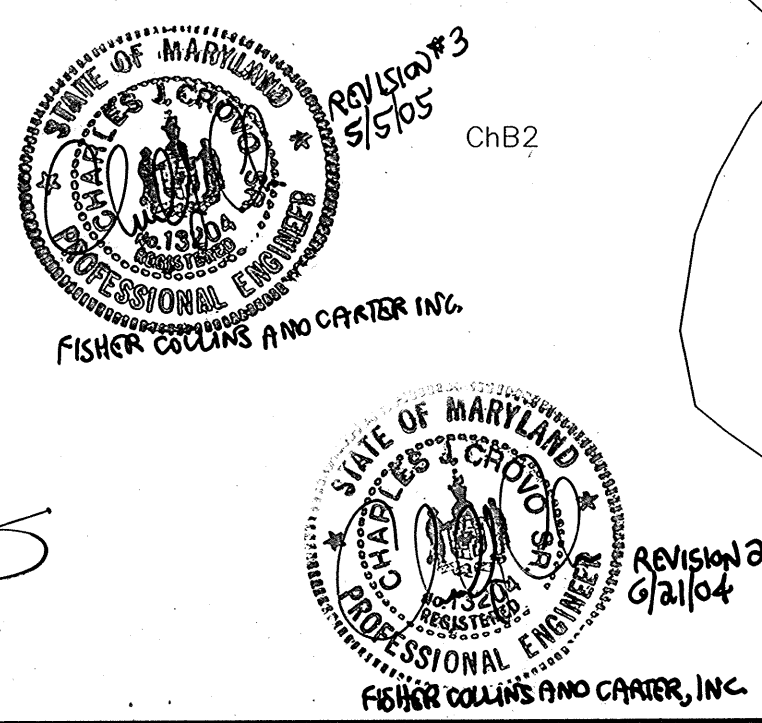
D.A. No.	A _p	A _c	A _t	C
1	0.55 Ac.	0.65 Ac.	1.20 Ac.	0.60
2	0.35 Ac.	0.25 Ac.	0.60 Ac.	0.67
3	0.40 Ac.	0.05 Ac.	1.05 Ac.	0.56
4	0.48 Ac.	0.23 Ac.	0.65 Ac.	0.71
5	0.17 Ac.	0.05 Ac.	0.22 Ac.	0.78
6	0.25 Ac.	0.40 Ac.	0.65 Ac.	0.56
7	0.77 Ac.	---	0.77 Ac.	0.92
8	0.50 Ac.	---	0.50 Ac.	0.92

ROOF DRAINS

A_p = AREA OF PAVEMENT
 A_c = AREA OF GRASS
 A_t = TOTAL AREA

APPROVED: FOR PRIVATE WATER & SEPTIC SYSTEMS,
 HOWARD COUNTY HEALTH DEPARTMENT
 County Health Officer *James M. Boyd* Date 2-5-97

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING
 Director *David Scott* Date 2/6/97
 Chief, Division of Planning and Development *Richard Blood* Date 2/6/97
 Chief, Development Engineering Division *Chris Dammann* Date 1/28/97



SOILS DATA

SYMBOLS	NAME	TYPE
Ba	BAILE SILT LOAM	D
ChA, ChB2	CHESTER SILT LOAM	B
ChC3	SILT LOAM	B
CgB2	GRAVELLY SILT LOAM	D
CgC2	GRAVELLY SILT LOAM	D
GIC2	GLENELG LOAM	B
GIC3	LOAM	B
GLD2	LOAM	B
GmD2	GLENVILLE SILT LOAM	C
MlB2	MANOR LOAM	B
MlD2	LOAM	B
MgC2	GRAVELLY LOAM	B

GLW GUTSCHICK LITTLE & WEBER, P.A.
 CIVIL ENGINEERS, SURVEYORS, PLANNERS, LANDSCAPE ARCHITECTS
 3909 NATIONAL DRIVE - SUITE 250 - BURTONSVILLE OFFICE PARK - BURTONSVILLE, MARYLAND 20866
 TEL: (301) 421-4024 NO. VA.: (301) 989-2524 BALT. (410) 680-1820 FAX: (301) 421-4186 DES. DRN. SJC CHK.

DATE	REVISION	BY	APPR.
0-21-04	Added modular classroom addition & covered walkway.	FCC	
5-5-09	Added full day kindergarten addition, paved & mulched play areas & concrete sidewalks.	FCC	

PREPARED FOR:
 Howard County Public Schools
 96 Thomas Clark Associates
 Architects
 2064 Riva Road, Suite 120
 Annapolis, Md 21041
 (301) 211-8100
 (410) 200-1122

STORMWATER MANAGEMENT & STORM DRAIN DRAINAGE AREA MAP
WESTERN ELEMENTARY SCHOOL #3
 LIBER 142 FOLIO 137
 WEST FRIENDSHIP ELECTION DISTRICT No. 3
 HOWARD COUNTY, MARYLAND

SCALE	ZONING	G. L. W. FILE NO.
1" = 100'	RR	96012
DATE	TAX MAP No.	SHEET
1-0-2007	22	C-12 Of 16

MODULAR CLASSROOM ADDITION CONSTRUCTION SEQUENCE

1. Obtain grading permit.
2. Install Sediment Control measures and receive permission from the Sediment Control Inspector to proceed with grading for the Modular Classroom Addition.
3. Construct Modular Classroom Addition and walkways.
4. Upon completion of fine grading, all disturbed areas shall be stabilized immediately.
5. When the contributing areas to the Sediment Control devices have been stabilized and with permission of the Sediment Control Inspector the devices may be removed and these disturbed areas stabilized.
6. Notify Howard County Office of Inspections and Permits for final inspection.

Reviewed for **HOWARD S.C.D.**
Name
J. Williams
Signature
Date **12/22/97**
USDA, NATURAL RESOURCES CONSV. SERVICE

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

Approved *J. Williams* Date **12/22/97**
Howard S.C.D.

ENGINEER'S CERTIFICATE

I certify that this plan for pond construction, erosion and sediment control represents a practical and workable plan based on my personal knowledge of the site conditions. This plan was prepared in accordance with the requirements of the Howard Soil Conservation District. I have notified the developer that he/she must engage a registered professional engineer to supervise pond construction and provide the Howard Soil Conservation District with an "as-built" plan of the pond within 30 days of completion.

Cliff 10-22-96
Date



DEVELOPER'S/BUILDER'S CERTIFICATE

I/We certify that all development and/or construction will be done according to these plans 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 shall engage a registered Professional Engineer to supervise pond construction and provide the Howard Soil Conservation District with an "as-built" plan of the pond within 30 days of completion. I also authorize periodic on-site inspections by the Howard Soil Conservation District.

Cathleen Conley Young 10/22/96
Signature of Developer/Builder Date

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

Robert D. Ziehm 1/23/97
Howard Soil Conservation District Date

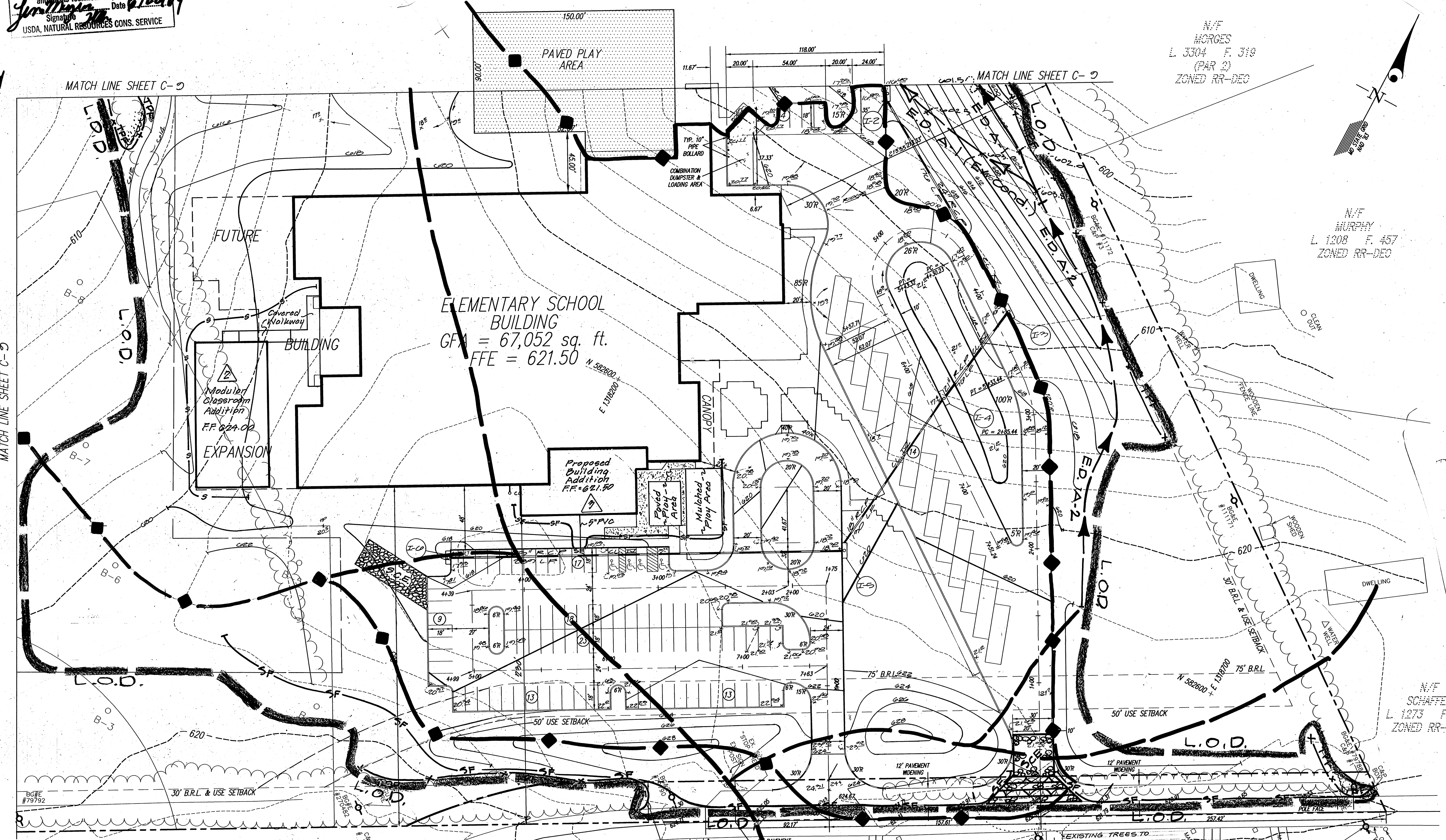
These plans have been reviewed for the Howard Soil Conservation District and meet the technical requirements for small pond construction, soil erosion and sediment control.

Cheryl Simmons 01-23-97
Natural Resources Conservation Service Date

Legend

- Ex. Contour: --- 0.12 ---
- Prop. Contour: --- 0.12 ---
- Silt Fence: SF
- Super Silt Fence: SFSF
- Earth Dike: E.D.A.
- Limit of Disturbance: L.O.D.
- Tree Protection Fence: TPF
- Before Conditions: D.A.
- After Conditions: D.A.
- Combined Before & After Conditions: D.A.
- Stabilized Construction Entrance: S.C.E.

* Does not include construction of septic fields or demolition.



N/F MORGES
L. 304 F. 318
(PAR 2)
ZONED RR-DEC

N/F MURPHY
L. 1208 F. 457
ZONED RR-DEC

N/F SCHAFER
L. 1273 F. 752
ZONED RR-DEC

APPROVED: FOR PRIVATE WATER & SEWERAGE SYSTEMS,
HOWARD COUNTY HEALTH DEPARTMENT
Joyce M. Boyd 2-5-97
County Health Officer Date

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING
Richard Blood 2/6/97
Director Date

Richard Blood 2/6/97
Chief, Division of Land Development Date

Cheryl Simmons 1/20/97
Chief, Development Engineering Division Date

N/F BRYANT
L. 738 F. 130
ZONED RR-DEC
FISHER COLLINS AND CARTER, INC.
PROFESSIONAL ENGINEER
N 582100

FUTURE TO BE DEDICATED FOR PUBLIC USE
FISHER COLLINS AND CARTER, INC.
PROFESSIONAL ENGINEER
REVISION # 2 5/15/95

TRIADELPHIA ROAD
PUBLIC R/W

"For Sediment & Erosion Control Only."

GLW GUTSCHICK LITTLE & WEBER, P.A.
CIVIL ENGINEERS, SURVEYORS, PLANNERS, LANDSCAPE ARCHITECTS
3909 NATIONAL DRIVE - SUITE 250 - BURTONSVILLE OFFICE PARK - BURTONSVILLE, MARYLAND 20866
TEL: (301) 421-4024 NO. VA: (301) 989-2524 BALT. (410) 880-1820 FAX: (301) 421-4186 DES. DRN. S&C CHK.

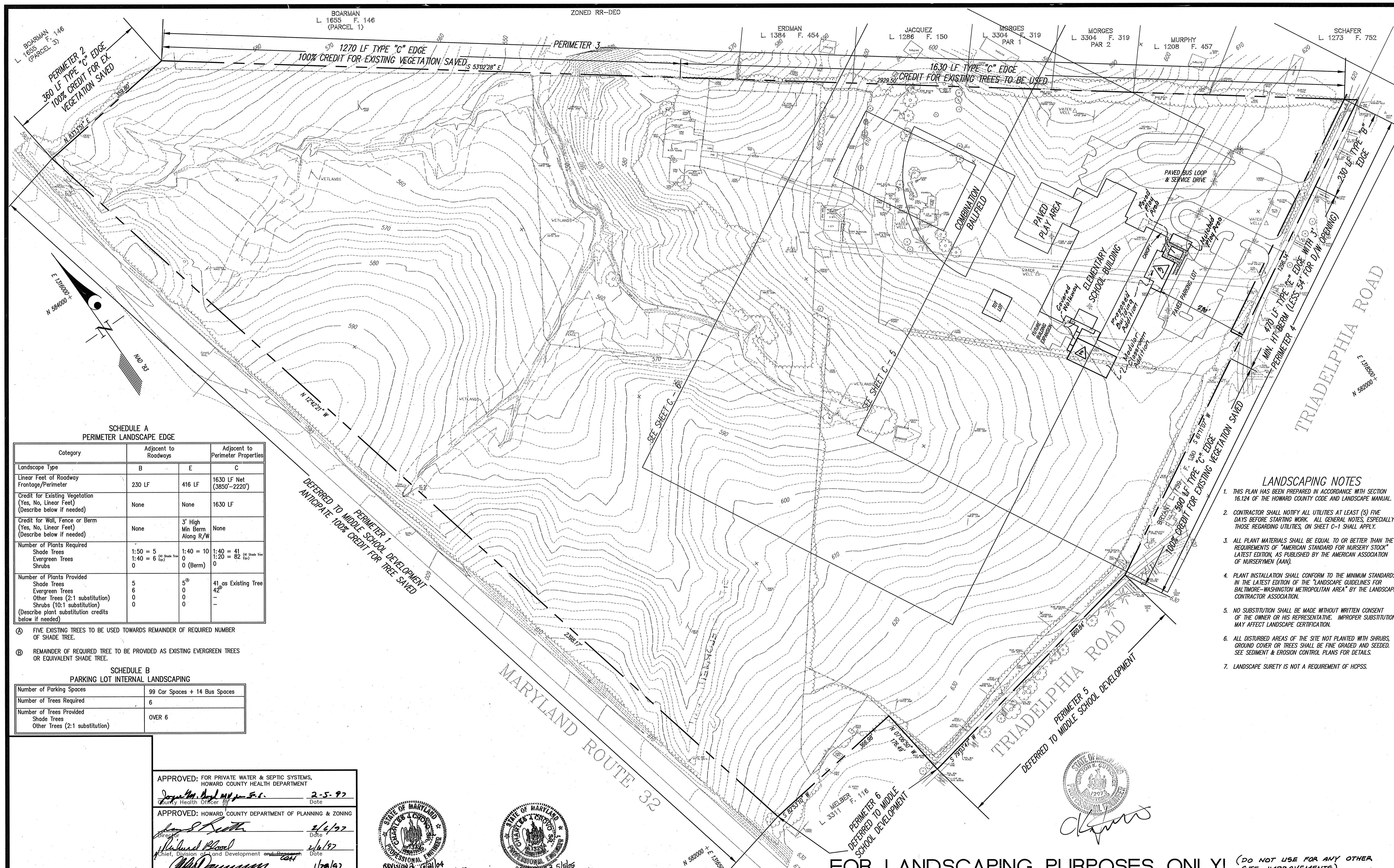
DATE	REVISION	BY	APP'R.
6-21-94	Added modular classroom addition & covered walkway; added construction sequence.		F.C.C.
8-5-95	Added full day kindergarten addition, paved & mulched play area & concrete sidewalks; added silt fence as required.		F.C.C.

PREPARED FOR:
HOWARD COUNTY PUBLIC SCHOOL SYSTEM
10910 ROUTE 108
ELLIOTT CITY, MARYLAND 21043
PHONE: (410) 313-6805

Sediment Control Plan
WESTERN ELEMENTARY SCHOOL No. 3
WEST FRIENDSHIP ELECTION DISTRICT No. 3
HOWARD COUNTY, MARYLAND

SCALE	ZONING	G. L. W. FILE No.
1" = 40'	RR	96012
DATE	TAX MAP No.	SHEET
1-02-97	22	C-8 OF 16

SDP 97 46



SCHEDULE A
PERIMETER LANDSCAPE EDGE

Category	Adjacent to Roadways	Adjacent to Perimeter Properties
Landscape Type	B	E
Linear Feet of Roadway Frontage/Perimeter	230 LF	416 LF
Credit for Existing Vegetation (Yes, No, Linear Feet) (Describe below if needed)	None	None
Credit for Wall, Fence or Berm (Yes, No, Linear Feet) (Describe below if needed)	None	3' High Min Berm Along R/W
Number of Plants Required		
Shade Trees	1:50 = 5	1:40 = 10
Evergreen Trees	1:40 = 6	1:20 = 82
Shrubs	0	0
Number of Plants Provided		
Shade Trees	5	41 as Existing Tree
Evergreen Trees	6	42
Other Trees (2:1 substitution)	0	-
Shrubs (10:1 substitution)	0	-

- Ⓐ FIVE EXISTING TREES TO BE USED TOWARDS REMAINDER OF REQUIRED NUMBER OF SHADE TREE.
- Ⓑ REMAINDER OF REQUIRED TREE TO BE PROVIDED AS EXISTING EVERGREEN TREES OR EQUIVALENT SHADE TREE.

SCHEDULE B
PARKING LOT INTERNAL LANDSCAPING

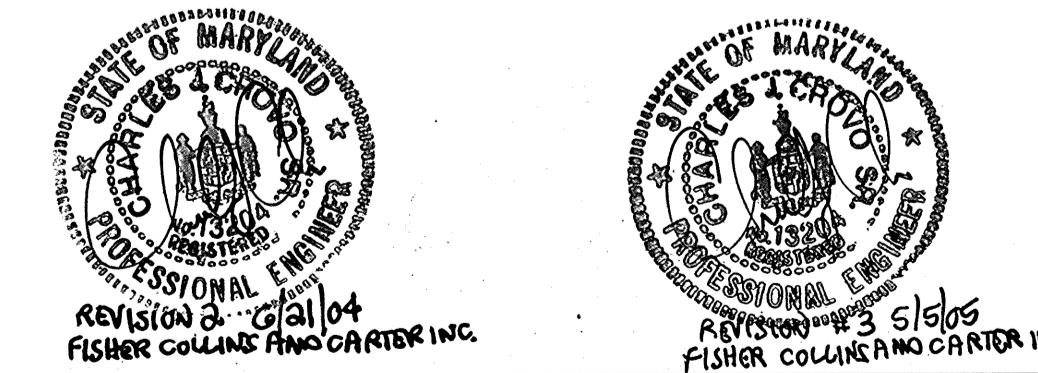
Number of Parking Spaces	99 Car Spaces + 14 Bus Spaces
Number of Trees Required	6
Number of Trees Provided	OVER 6
Shade Trees	
Other Trees (2:1 substitution)	

APPROVED: FOR PRIVATE WATER & SEPTIC SYSTEMS,
HOWARD COUNTY HEALTH DEPARTMENT
Joy M. Boyd 2-5-97
County Health Officer Date

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING
Ray S. Smith 2/6/97
Director Date

Richard Blawie 2/6/97
Chief, Division of Land Development and Planning Date

Michael D. ... 1/20/97
Chief, Development Engineering Division Date



- LANDSCAPING NOTES
- THIS PLAN HAS BEEN PREPARED IN ACCORDANCE WITH SECTION 16.124 OF THE HOWARD COUNTY CODE AND LANDSCAPE MANUAL.
 - CONTRACTOR SHALL NOTIFY ALL UTILITIES AT LEAST (5) FIVE DAYS BEFORE STARTING WORK. ALL GENERAL NOTES, ESPECIALLY THOSE REGARDING UTILITIES, ON SHEET C-1 SHALL APPLY.
 - ALL PLANT MATERIALS SHALL BE EQUAL TO OR BETTER THAN THE REQUIREMENTS OF "AMERICAN STANDARD FOR NURSERY STOCK" LATEST EDITION, AS PUBLISHED BY THE AMERICAN ASSOCIATION OF NURSERMEN (AAN).
 - PLANT INSTALLATION SHALL CONFORM TO THE MINIMUM STANDARDS IN THE LATEST EDITION OF THE "LANDSCAPE GUIDELINES FOR BALTIMORE-WASHINGTON METROPOLITAN AREA" BY THE LANDSCAPE CONTRACTOR ASSOCIATION.
 - NO SUBSTITUTION SHALL BE MADE WITHOUT WRITTEN CONSENT OF THE OWNER OR HIS REPRESENTATIVE. IMPROPER SUBSTITUTION MAY AFFECT LANDSCAPE CERTIFICATION.
 - ALL DISTURBED AREAS OF THE SITE NOT PLANTED WITH SHRUBS, GROUND COVER OR TREES SHALL BE FINE GRADED AND SEEDED. SEE SEDIMENT & EROSION CONTROL PLANS FOR DETAILS.
 - LANDSCAPE SURETY IS NOT A REQUIREMENT OF HCPSS.

FOR LANDSCAPING PURPOSES ONLY! (DO NOT USE FOR ANY OTHER SITE IMPROVEMENTS)

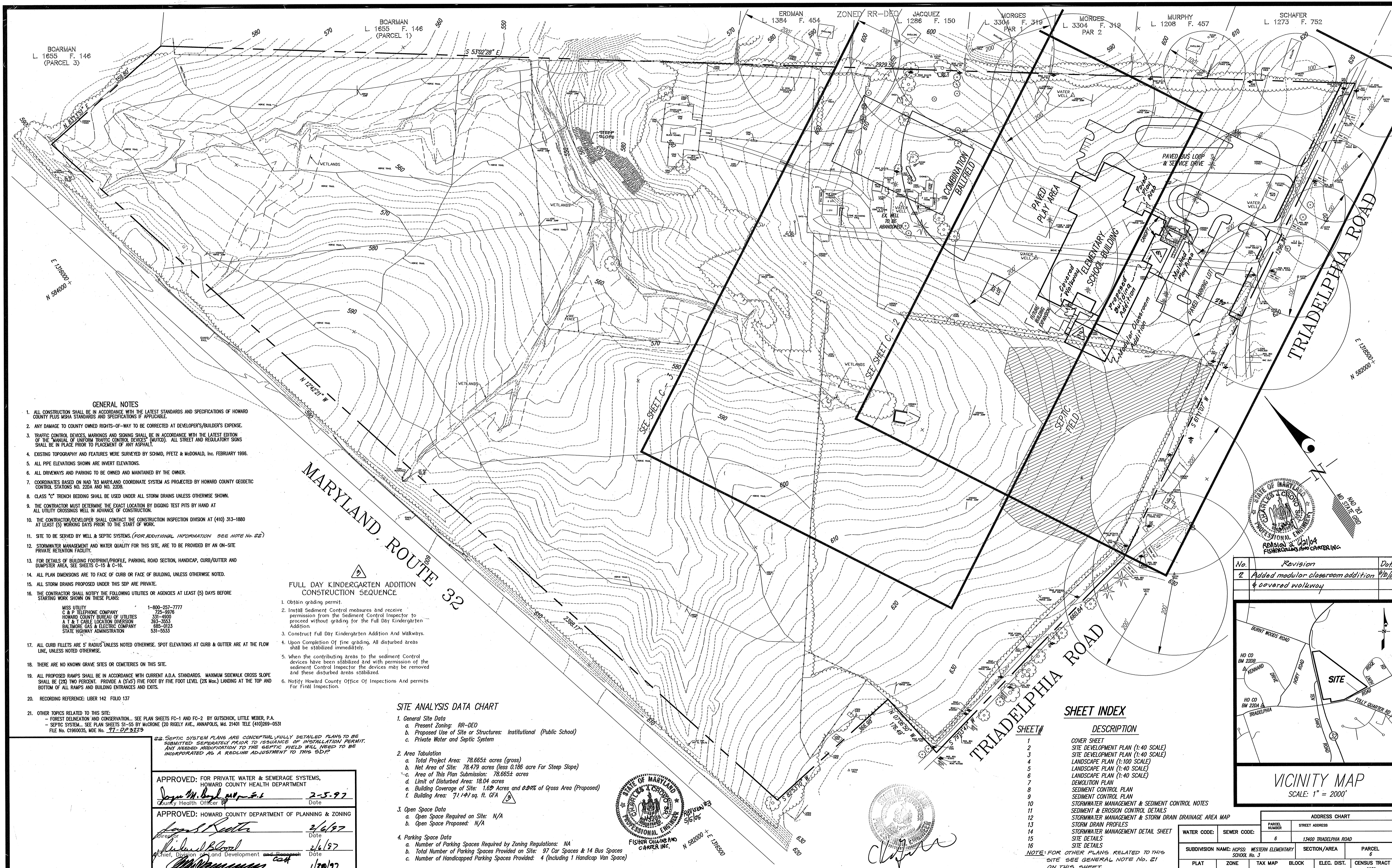
GLW GUTSCHICK LITTLE & WEBER, P.A.
CIVIL ENGINEERS, SURVEYORS, PLANNERS, LANDSCAPE ARCHITECTS
3909 NATIONAL DRIVE - SUITE 250 - BURTONSVILLE OFFICE PARK - BURTONSVILLE, MARYLAND 20866
TEL: (301) 421-4024 NO. VA.: (301) 989-2524 BALT.: (410) 880-1820 FAX: (301) 421-4186 DES. DRN. SJC CHK.

DATE	REVISION	BY	APP'R.
6-21-04	Added modular classroom addition & covered walkway		FCC
7-5-07	Added full day kindergarten addition, new paved & mulched play areas & concrete sidewalks.		FCC

PREPARED FOR:
HOWARD COUNTY PUBLIC SCHOOL SYSTEM
10910 ROUTE 108
ELLCOTT CITY, MARYLAND 21043
PHONE: (410) 313-6805

LANDSCAPE PLAN
WESTERN ELEMENTARY SCHOOL #3
WEST FRIENDSHIP ELECTION DISTRICT No. 3
HOWARD COUNTY, MARYLAND

SCALE 1" = 100'	ZONING RR	G. L. W. FILE No. 96012
DATE 1-02-97	TAX MAP No. 22	SHEET C-4 OF 16



- GENERAL NOTES**
- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST STANDARDS AND SPECIFICATIONS OF HOWARD COUNTY PLUS MSHA STANDARDS AND SPECIFICATIONS IF APPLICABLE.
 - ANY DAMAGE TO COUNTY OWNED RIGHTS-OF-WAY TO BE CORRECTED AT DEVELOPER'S/BUILDER'S EXPENSE.
 - TRAFFIC CONTROL DEVICES, MARKINGS AND SIGNING SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE "MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES" (MUTCD). ALL STREET AND REGULATORY SIGNS SHALL BE IN PLACE PRIOR TO PLACEMENT OF ANY ASPHALT.
 - EXISTING TOPOGRAPHY AND FEATURES WERE SURVEYED BY SCHMID, PRETZ & McDONALD, Inc. FEBRUARY 1996.
 - ALL PIPE ELEVATIONS SHOWN ARE INVERT ELEVATIONS.
 - ALL DRIVEWAYS AND PARKING TO BE OWNED AND MAINTAINED BY THE OWNER.
 - COORDINATES BASED ON NAD 83 MARYLAND COORDINATE SYSTEM AS PROJECTED BY HOWARD COUNTY GEODETIC CONTROL STATIONS NO. 22DA AND NO. 22DB.
 - CLASS "C" TRENCH BEDDING SHALL BE USED UNDER ALL STORM DRAINS UNLESS OTHERWISE SHOWN.
 - THE CONTRACTOR MUST DETERMINE THE EXACT LOCATION BY DIGGING TEST PITS BY HAND AT ALL UTILITY CROSSINGS WELL IN ADVANCE OF CONSTRUCTION.
 - THE CONTRACTOR/DEVELOPER SHALL CONTACT THE CONSTRUCTION INSPECTION DIVISION AT (410) 313-1880 AT LEAST (5) WORKING DAYS PRIOR TO THE START OF WORK.
 - SITE TO BE SERVED BY WELL & SEPTIC SYSTEMS. (FOR ADDITIONAL INFORMATION SEE NOTE NO. 22)
 - STORMWATER MANAGEMENT AND WATER QUALITY FOR THIS SITE, ARE TO BE PROVIDED BY AN ON-SITE PRIVATE RETENTION FACILITY.
 - FOR DETAILS OF BUILDING FOOTPRINT/PROFILE, PARKING, ROAD SECTION, HANDICAP, CURB/GUTTER AND DUMPSTER AREA, SEE SHEETS C-1 & C-1A.
 - ALL PLAN DIMENSIONS ARE TO FACE OF CURB OR FACE OF BUILDING, UNLESS OTHERWISE NOTED.
 - ALL STORM DRAINS PROPOSED UNDER THIS SDP ARE PRIVATE.
 - THE CONTRACTOR SHALL NOTIFY THE FOLLOWING UTILITIES OR AGENCIES AT LEAST (5) DAYS BEFORE STARTING WORK SHOWN ON THESE PLANS:
 - MISS UTILITY 1-800-257-7777
 - C & P TELEPHONE COMPANY 725-5070
 - HOWARD COUNTY BUREAU OF UTILITIES 331-4000
 - A T & T CABLE LOCATION DIVISION 393-3553
 - BALTIMORE GAS & ELECTRIC COMPANY 685-3123
 - STATE HIGHWAY ADMINISTRATION 531-5533
 - ALL CURB FILLETS ARE 5' RADIUS UNLESS NOTED OTHERWISE. SPOT ELEVATIONS AT CURB & GUTTER ARE AT THE FLOW LINE, UNLESS NOTED OTHERWISE.
 - THERE ARE NO KNOWN GRAVE SITES OR CEMETERIES ON THIS SITE.
 - ALL PROPOSED RAMPS SHALL BE IN ACCORDANCE WITH CURRENT A.D.A. STANDARDS. MAXIMUM SIDEWALK CROSS SLOPE SHALL BE (2%) TWO PERCENT. PROVIDE A (6"x6") FIVE FOOT BY FIVE FOOT LEVEL (2% MAX.) LANDING AT THE TOP AND BOTTOM OF ALL RAMPS AND BUILDING ENTRANCES AND EXITS.
 - RECORDING REFERENCE: LIBER 142 FOLD 137
 - OTHER TOPICS RELATED TO THIS SITE:
 - FOREST DELINEATION AND CONSERVATION... SEE PLAN SHEETS FC-1 AND FC-2 BY GUTSCHICK, LITTLE WEBER, P.A.
 - SEPTIC SYSTEM... SEE PLAN SHEETS S1-S5 BY McCORNE (20 RIGLEY AVE., ANNAPOLIS, MD. 21401 TELE (410)269-0531 FILE NO. C1960035, MDE No. 77-023223

FULL DAY KINDERGARTEN ADDITION CONSTRUCTION SEQUENCE

- Obtain grading permit.
- Install Sediment Control measures and receive permission from the Sediment Control Inspector to proceed without grading for the Full Day Kindergarten Addition.
- Construct Full Day Kindergarten Addition And Walkways.
- Upon Completion Of fine grading, All disturbed areas shall be stabilized immediately.
- When the contributing areas to the sediment Control devices have been stabilized and with permission of the sediment Control Inspector the devices may be removed and these disturbed areas stabilized.
- Notify Howard County Office Of Inspections And permits For Final Inspection.

SITE ANALYSIS DATA CHART

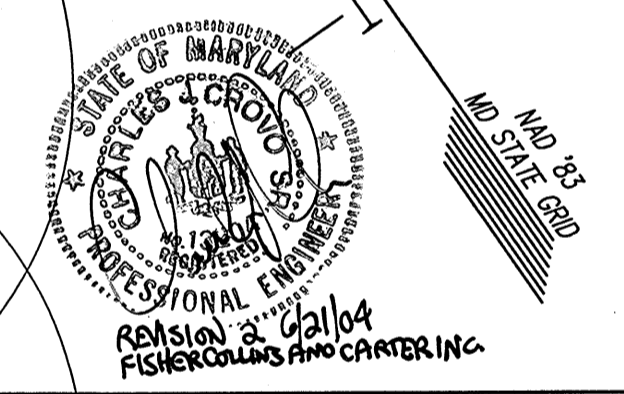
- General Site Data
 - Present Zoning: RR-DEO
 - Proposed Use of Site or Structures: Institutional (Public School)
 - Private Water and Septic System
- Area Tabulation
 - Total Project Area: 78.665± acres (gross)
 - Net Area of Site: 78.479 acres (less 0.186 acre For Steep Slope)
 - Area of This Plan Submission: 78.665± acres
 - Limit of Disturbed Area: 18.04 acres
 - Building Coverage of Site: 1.6± Acres and 0.9% of Gross Area (Proposed)
 - Building Area: 71,141 sq. ft. GFA
- Open Space Data
 - Open Space Required on Site: N/A
 - Open Space Proposed: N/A
- Parking Space Data
 - Number of Parking Spaces Required by Zoning Regulations: NA
 - Total Number of Parking Spaces Provided on Site: 97 Car Spaces & 14 Bus Spaces
 - Number of Handicapped Parking Spaces Provided: 4 (including 1 Handicap Van Space)

APPROVED: FOR PRIVATE WATER & SEWERAGE SYSTEMS,
HOWARD COUNTY HEALTH DEPARTMENT
Joseph M. Boyd 2-5-97
County Health Officer Date

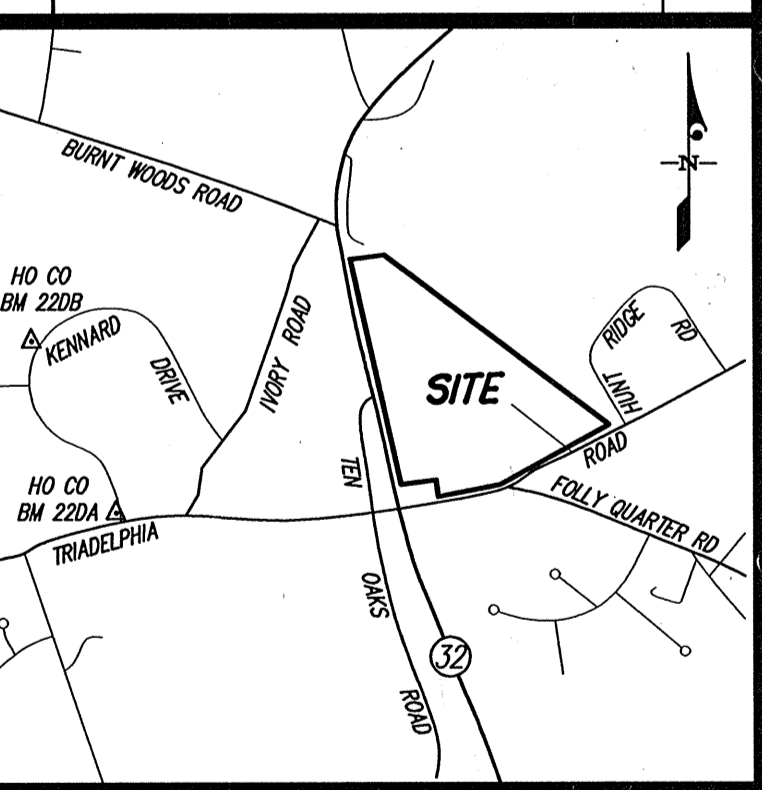
APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING
David Keister 2/6/97
Director Date

Richard B. Wood 2/6/97
Chief, Division of Land Development Date

William J. ... 1/20/97
Chief, Development Engineering Division Date



No.	Revision	Date
2	Added modular classroom addition & covered walkway	9/10/96



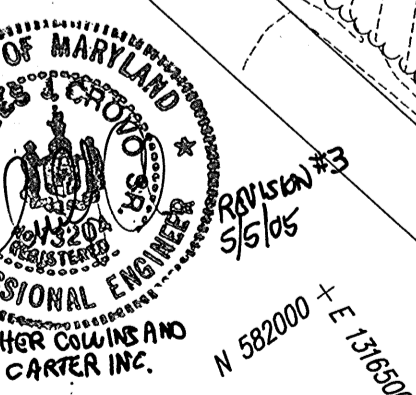
SHEET INDEX

SHEET#	DESCRIPTION
1	COVER SHEET
2	SITE DEVELOPMENT PLAN (1:40 SCALE)
3	SITE DEVELOPMENT PLAN (1:40 SCALE)
4	LANDSCAPE PLAN (1:100 SCALE)
5	LANDSCAPE PLAN (1:40 SCALE)
6	LANDSCAPE PLAN (1:40 SCALE)
7	DEMOLITION PLAN
8	SEDMENT CONTROL PLAN
9	SEDMENT CONTROL PLAN
10	STORMWATER MANAGEMENT & SEDIMENT CONTROL NOTES
11	SEDIMENT & EROSION CONTROL DETAILS
12	STORMWATER MANAGEMENT & STORM DRAIN DRAINAGE AREA MAP
13	STORM DRAIN PROFILES
14	STORMWATER MANAGEMENT DETAIL SHEET
15	SITE DETAILS
16	SITE DETAILS

ADDRESS CHART					
PARCEL NUMBER	STREET ADDRESS				
6	13400 TRIADELPHIA ROAD				
SUBDIVISION NAME: HOPSS WESTERN ELEMENTARY SCHOOL No. 3		SECTION/AREA	PARCEL		
PLAT L 142 F. 137		ZONE RR	TAX MAP 22	BLOCK 8	ELEC. DIST. 3
		CENSUS TRACT 6030			

GLW GUTSCHICK LITTLE & WEBER, P.A.
CIVIL ENGINEERS, SURVEYORS, PLANNERS, LANDSCAPE ARCHITECTS
3909 NATIONAL DRIVE - SUITE 250 - BURTONSVILLE OFFICE PARK - BURTONSVILLE, MARYLAND 20866
TEL: (301) 421-4024 NO. VA: (301) 989-2524 BAL: (410) 880-1820 FAX: (301) 421-4186 DES. DRN. SJC CHK.

DATE	REVISION	BY	APP'R.
9-5-97	Added full day kindergarten addition; new paved & mulched play areas & concrete sidewalks; const. sequence; revised site analysis info.		F.O.O.



PREPARED FOR:
HOWARD COUNTY PUBLIC SCHOOL SYSTEM
10910 ROUTE 108
ELLCOTT CITY, MARYLAND 21043
PHONE: (410) 313-6805

COVER SHEET
WESTERN ELEMENTARY SCHOOL #3

SCALE	ZONING	G. L. W. FILE No.
1" = 100'	RR	96012
DATE	TAX MAP No.	SHEET
1-02-97	22	C-1 OF 16

SDP 1746