

K:\WORK\1997\SDP\20151.FLT 10:50:03 1997 RIEMER MUEGGE & ASSOCIATES, INC.

SITE DEVELOPMENT PLAN

WORTHINGTON

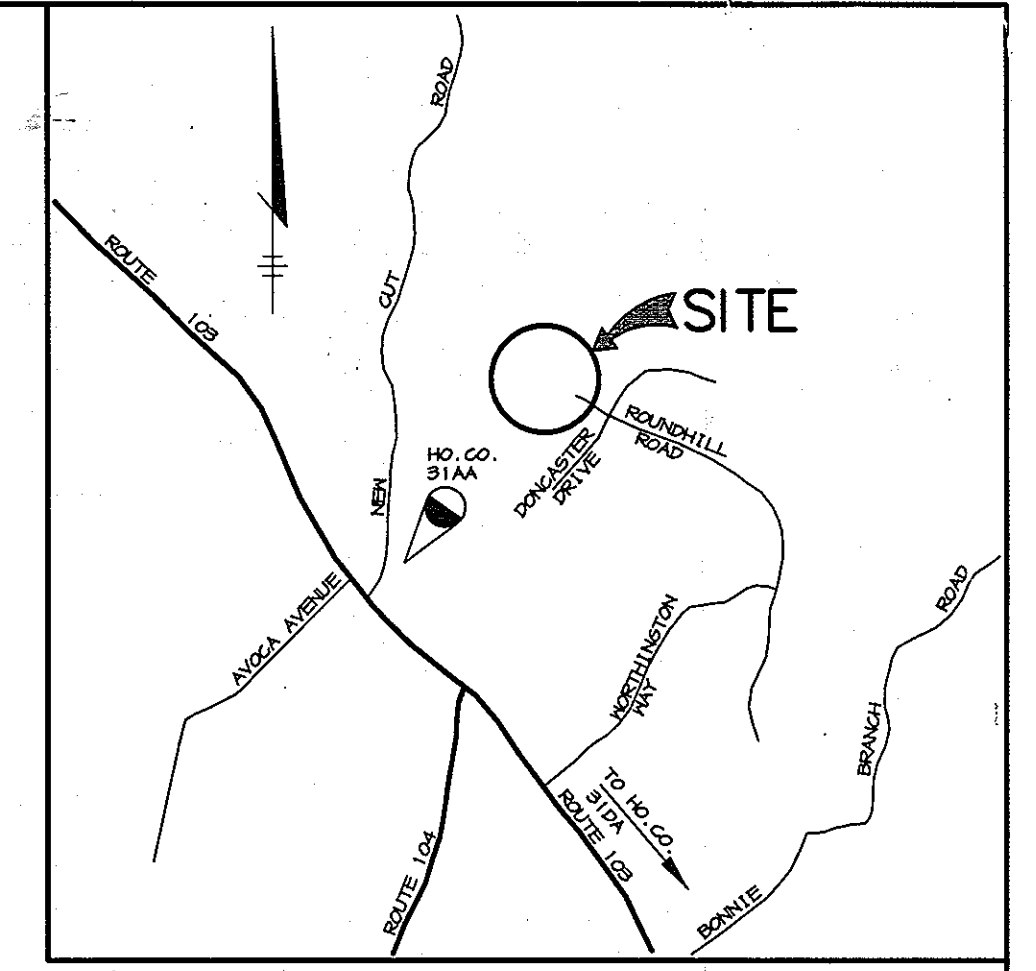
ELEMENTARY SCHOOL

ADDITION / RENOVATION

2nd ELECTION DISTRICT

HOWARD COUNTY, MARYLAND

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NO	DESCRIPTION
1	TITLE SHEET
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4	NOTES AND DETAILS

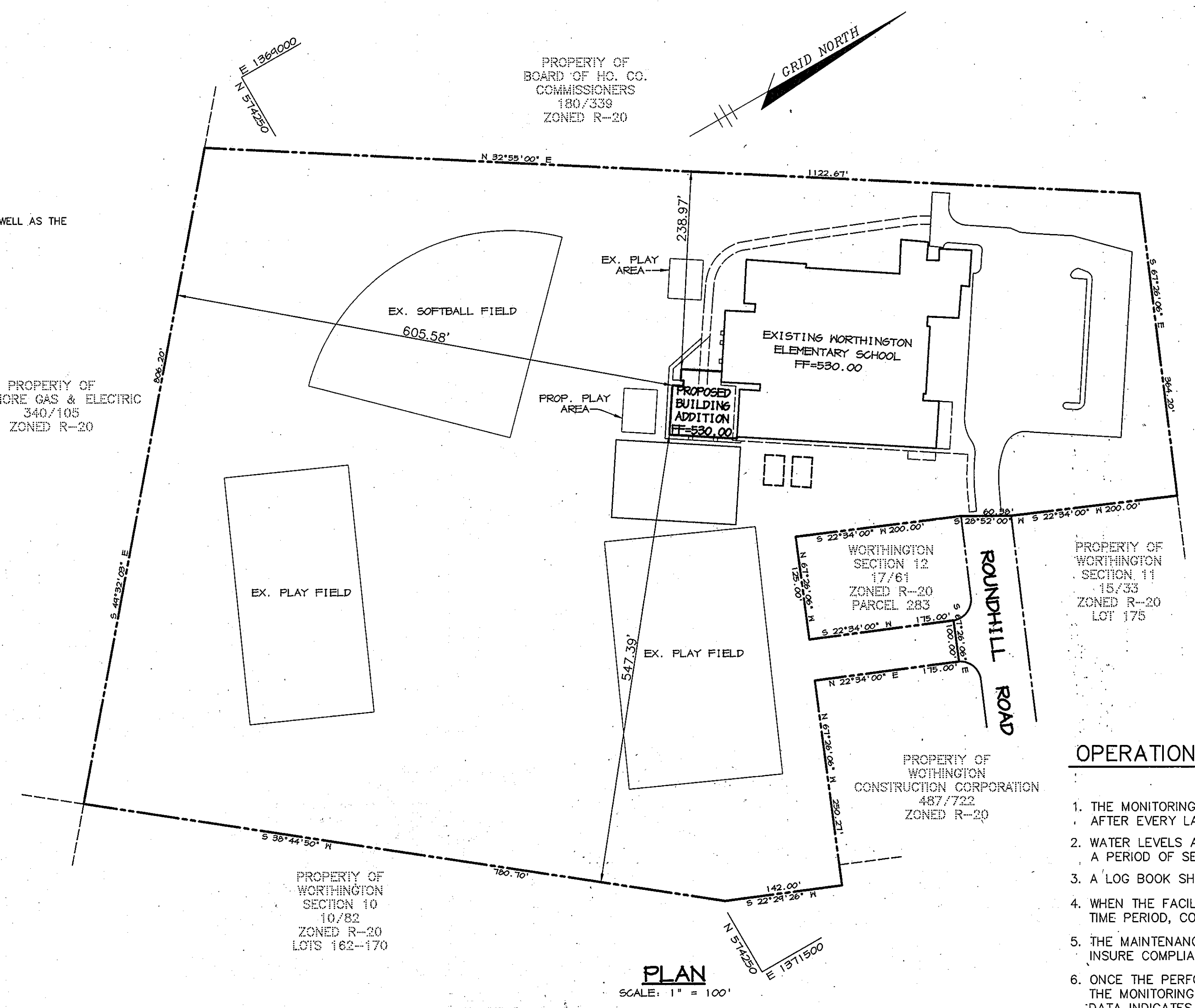


VICINITY MAP
SCALE: 1" = 2000'

BENCHMARKS
 HO. CO. SURVEY CONTROL STATION 31AA
 ELEV. 152.448
 N 573,998.5714 E 1,369,934.23
 HO. CO. SURVEY CONTROL STATION 31DA
 ELEV. 147.021
 N 571,982.6706 E 1,372,145.076

GENERAL NOTES

- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST STANDARDS AND SPECIFICATIONS OF HOWARD COUNTY PLUS MSHA STANDARDS AND SPECIFICATIONS, IF APPLICABLE.
- THE CONTRACTOR SHALL NOTIFY THE DEPARTMENT OF PUBLIC WORKS/BUREAU OF ENGINEERING/CONSTRUCTION INSPECTION DIVISION AT (410) 313-1880 AT LEAST FIVE (5) WORKING DAYS PRIOR TO THE START OF WORK.
- THE CONTRACTOR SHALL NOTIFY "MISS UTILITY" AT 1-800-257-7777 AT LEAST 48 HOURS PRIOR TO ANY EXCAVATION WORK BEING DONE.
- TRAFFIC CONTROL DEVICES, MARKINGS, AND SIGNING SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD). ALL STREET AND REGULATORY SIGNS SHALL BE IN PLACE PRIOR TO THE PLACEMENT OF ANY ASPHALT.
- ALL PLAN DIMENSIONS ARE TO FACE OF CURB UNLESS OTHERWISE NOTED.
- THE EXISTING TOPOGRAPHY IS TAKEN FROM FIELD RUN SURVEY WITH MAXIMUM TWO FOOT CONTOUR INTERVALS PREPARED BY RIEMER MUEGGE & ASSOC. DATED JAN. 1997, AND FROM SDP-88-250 PREPARED BY CAD-COM, INC.
- THE COORDINATES SHOWN HEREON ARE BASED UPON THE HOWARD COUNTY GEODETIC CONTROL WHICH IS BASED UPON THE MARYLAND STATE COORDINATE SYSTEM. HOWARD COUNTY MONUMENT NOS. 31AA AND 31DA WERE USED FOR THIS PROJECT.
- WATER IS PUBLIC, CONTRACT NO. 420-W
- SEWER IS PUBLIC, CONTRACT NO. 420-S, DRAINAGE AREA: DORSEY
- THE STORMWATER MANAGEMENT FACILITY PROPOSED FOR THIS SITE IS AN EXPANSION OF THE EXISTING PRIVATELY OWNED AND MAINTAINED DRYWELL DESIGNED TO MANAGE RUNOFF FROM THIS ADDITION AS WELL AS THE WELL AS THE PREVIOUS ADDITION.
- APPROXIMATE LOCATION OF EXISTING UTILITIES ARE SHOWN. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT THE EXISTING UTILITIES AND MAINTAIN UNINTERRUPTED SERVICE. ANY DAMAGE INCURRED DUE TO CONTRACTOR'S OPERATION SHALL BE REPAIRED IMMEDIATELY AT THE CONTRACTOR'S EXPENSE. EXISTING UTILITIES ARE SHOWN BASED ON THE BEST AVAILABLE INFORMATION.
- THERE IS NO 100- YEAR FLOODPLAIN ON SITE.
- THERE ARE NO WETLANDS DISTURBANCE ANTICIPATED FOR THIS SITE.
- A TRAFFIC STUDY IS NOT REQUIRED FOR THIS PROJECT.
- A NOISE STUDY IS NOT REQUIRED FOR THIS PROJECT.
- THE GEOTECHNICAL STUDY FOR STORMWATER MANAGEMENT IS NOT REQUIRED AS THE PROPOSED FACILITY IS AN EXPANSION TO AN ALREADY ESTABLISHED S.W.M. AREA.
- THE BOUNDARY FOR THIS PROJECT WAS DIGITIZED FROM SDP NO. 75-41.
- SUBJECT PROPERTY ZONED R-20 PER 10-18-93 COMPREHENSIVE ZONING PLAN.
- ALL ELEVATIONS SHOWN ARE BASED ON THE U.S.C. AND G.S. MEAN SEA LEVEL DATUM, 1929.
- SEE DEPARTMENT OF PLANNING AND ZONING FILE NO'S: SDP-75-41, SDP-88-250, WP-88-147
- THE CONTRACTOR SHALL TEST PIT EXISTING UTILITIES AT LEAST (5) DAYS BEFORE STARTING WORK SHOWN ON THESE DRAWINGS.
- CONTRACTOR IS SOLELY RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, PROCEDURES, AND SAFETY PRECAUTIONS AND PROGRAMS.
- PIPE SHALL NOT BE INSTALLED BY THE CONTRACTOR UNTIL THE LENGTH CALLED FOR AT EACH STATION HAS BEEN APPROVED BY THE ENGINEER IN THE FIELD.
- NO PIPE SHALL BE LAID UNTIL LINES OF EXCAVATION HAVE BEEN BROUGHT WITHIN 6" OF FINISHED GRADE.
- ALL STORM DRAIN PIPE BEDDING SHALL BE CLASS 'C' AS SHOWN IN FIG. 11-4, VOLUME 1 OF HOWARD COUNTY DESIGN MANUAL UNLESS OTHERWISE NOTED.
- ALL INLETS SHALL BE CONSTRUCTED IN ACCORDANCE WITH HOWARD COUNTY STANDARDS.
- ALL PIPE ELEVATIONS SHOWN ARE INVERT ELEVATIONS.
- STORM DRAIN TRENCHES WITHIN ROAD RIGHT OF WAY SHALL BE BACKFILLED AND COMPACTED IN ACCORDANCE WITH THE HOWARD COUNTY DESIGN MANUAL, VOLUME IV, I.E., STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION, LATEST AMENDMENTS.
- PROFILES STATIONS SHALL BE ADJUSTED AS NECESSARY TO CONFORM TO PLAN DIMENSIONS.
- ALL FILL AREAS WITHIN ROADWAY AND UNDER STRUCTURES TO BE COMPACTED TO A MINIMUM OF 95% COMPACTION OF AASHTO T180.



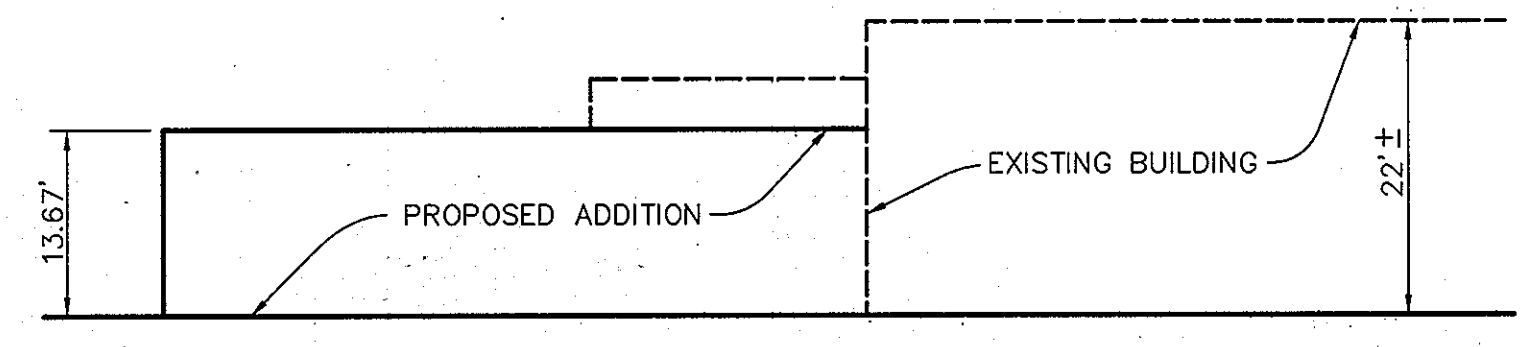
SITE ANALYSIS

AREA OF PARCEL	19.6920 AC. (857,782 S.F.)
DISTURBED AREA	1.26 AC
ZONING	R-20
PROPOSED USE	ELEMENTARY SCHOOL ADDITION
FLOOR SPACE	6,182 S.F.

NOTE: NO MODIFICATIONS TO EXISTING PARKING ARE PROPOSED UNDER THIS PLAN.

OPERATION AND MAINTENANCE SCHEDULE FOR DRY WELLS (BY OWNER)

- THE MONITORING WELLS AND STRUCTURES SHALL BE INSPECTED ON A QUARTERLY BASIS AND AFTER EVERY LARGE STORM EVENT.
- WATER LEVELS AND SEDIMENT BUILD UP IN THE MONITORING WELLS SHALL BE RECORDED OVER A PERIOD OF SEVERAL DAYS TO INSURE TRENCH DRAINAGE.
- A LOG BOOK SHALL BE MAINTAINED TO DETERMINE THE RATE AT WHICH THE FACILITY DEWATERS.
- WHEN THE FACILITY BECOMES CLOGGED SO THAT IT DOES NOT DRAIN DOWN WITHIN THE 72 HOUR TIME PERIOD, CORRECTIVE ACTION SHALL BE TAKEN.
- THE MAINTENANCE LOG BOOK SHALL BE AVAILABLE TO HOWARD COUNTY FOR INSPECTION TO INSURE COMPLIANCE WITH OPERATION AND MAINTENANCE CRITERIA.
- ONCE THE PERFORMANCE CHARACTERISTICS OF THE INFILTRATION FACILITY HAVE BEEN VERIFIED, THE MONITORING SCHEDULE CAN BE REDUCED TO AN ANNUAL BASIS UNLESS THE PERFORMANCE DATA INDICATES THAT A MORE FREQUENT SCHEDULE IS REQUIRED.



SOUTHEAST ELEVATION
NO SCALE

ADDRESS CHART

PARCEL	STREET ADDRESS
121	4570 ROUNDHILL ROAD

SUBDIVISION NAME -	SECT./AREA -	PARCEL -
WORTHINGTON ELEM. SCHOOL	N/A	121
PLAT # -	BLOCK # -	ZONING -
675/136	2	R-20
TAX MAP NO. -	ELECT. DIST. -	CENSUS TRACT -
31	2	6027
WATER CODE -	SEWER CODE -	
M101	1257013	

APPROVED : HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.	
<i>[Signature]</i> DIRECTOR	5/22/97 DATE
<i>[Signature]</i> CHIEF, DEVELOPMENT ENGINEERING DIVISION	5/19/97 DATE
<i>[Signature]</i> CHIEF, DIVISION OF LAND DEVELOPMENT	5/21/97 DATE

DATE NO.	REVISION
OWNER / DEVELOPER	
BOARD OF EDUCATION OF HOWARD COUNTY ELLICOTT CITY, MD 21042	

PROJECT	
WORTHINGTON ELEMENTARY SCHOOL ADDITION/RENOVATION	
AREA	TAX MAP 31 - BLOCK 2
PARCEL 121	ZONE R-20 L.675 F.136
2nd ELECTION DISTRICT HOWARD COUNTY, MARYLAND	

TITLE SHEET

RIEMER MUEGGE & ASSOCIATES, INC.
 ENGINEERING • ENVIRONMENTAL SERVICES • PLANNING • SURVEYING
 8818 Centre Park Drive, Columbia, Maryland 21045
 tel 410.997.8900 fax 410.997.9282

5-12-97 DATE	DESIGNED BY : C.J.R.
<i>[Signature]</i>	DRAWN BY: M.A.D.
	PROJECT NO : 96126 SDP1.DWG
	DATE : MAY 12, 1997
	SCALE : AS SHOWN
<i>[Signature]</i> JAYKANT D. PAREKH #19148	DRAWING NO. 1 OF 4

- NOTES:**
- ALL DIMENSIONS ARE TO FACE OF BUILDING, FACE OF CURB, OR PROPERTY LINE.
 - ALL EXISTING PLAY EQUIPMENT IS TO BE REMOVED AND STORED AT GATEWAY SCHOOL GYM DURING CONSTRUCTION. RELOCATE PLAY EQUIPMENT AFTER CONSTRUCTION AT DIRECTION OF THE BOARD OF EDUCATION. REPLACE SURFACE OF EX. PLAY AREA #2 AND REPLACE WITH MOOD CARPET PER DETAIL ON SHEET 4.

DRYWELL DATA

SURFACE AREA: 20'x40' (EXISTING)
20'x6' (PROPOSED)
20'x54' (TOTAL)

COVER DEPTH: 12" MIN.

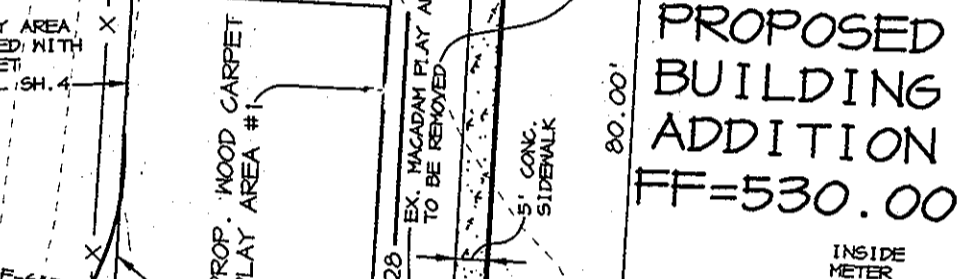
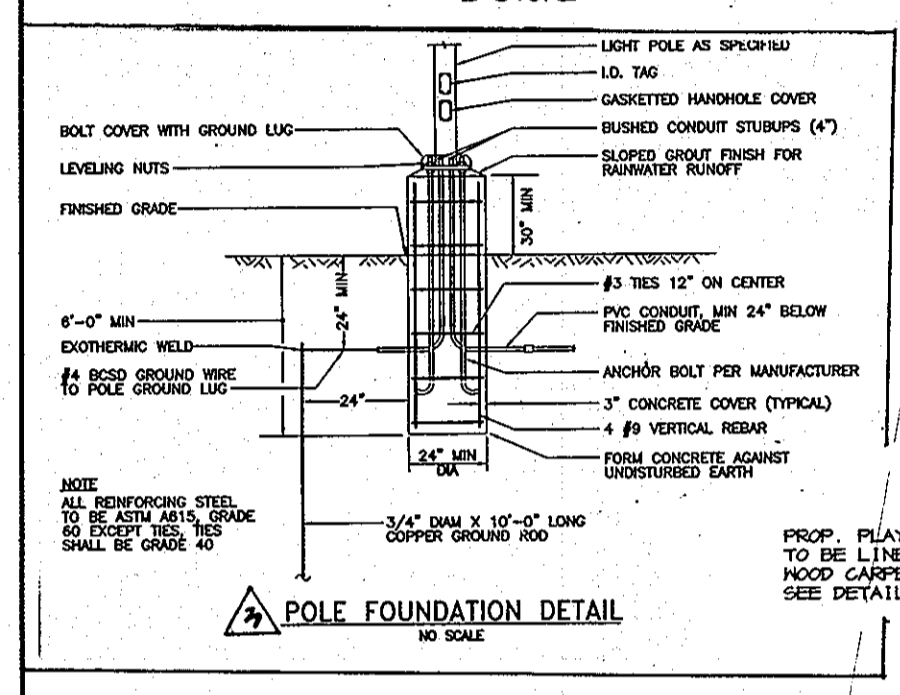
GRAVEL DEPTH: 7.0" MAX.

CAPACITY: 2883 CF (EXISTING)
813 CF (PROPOSED)
3756 CF (TOTAL)

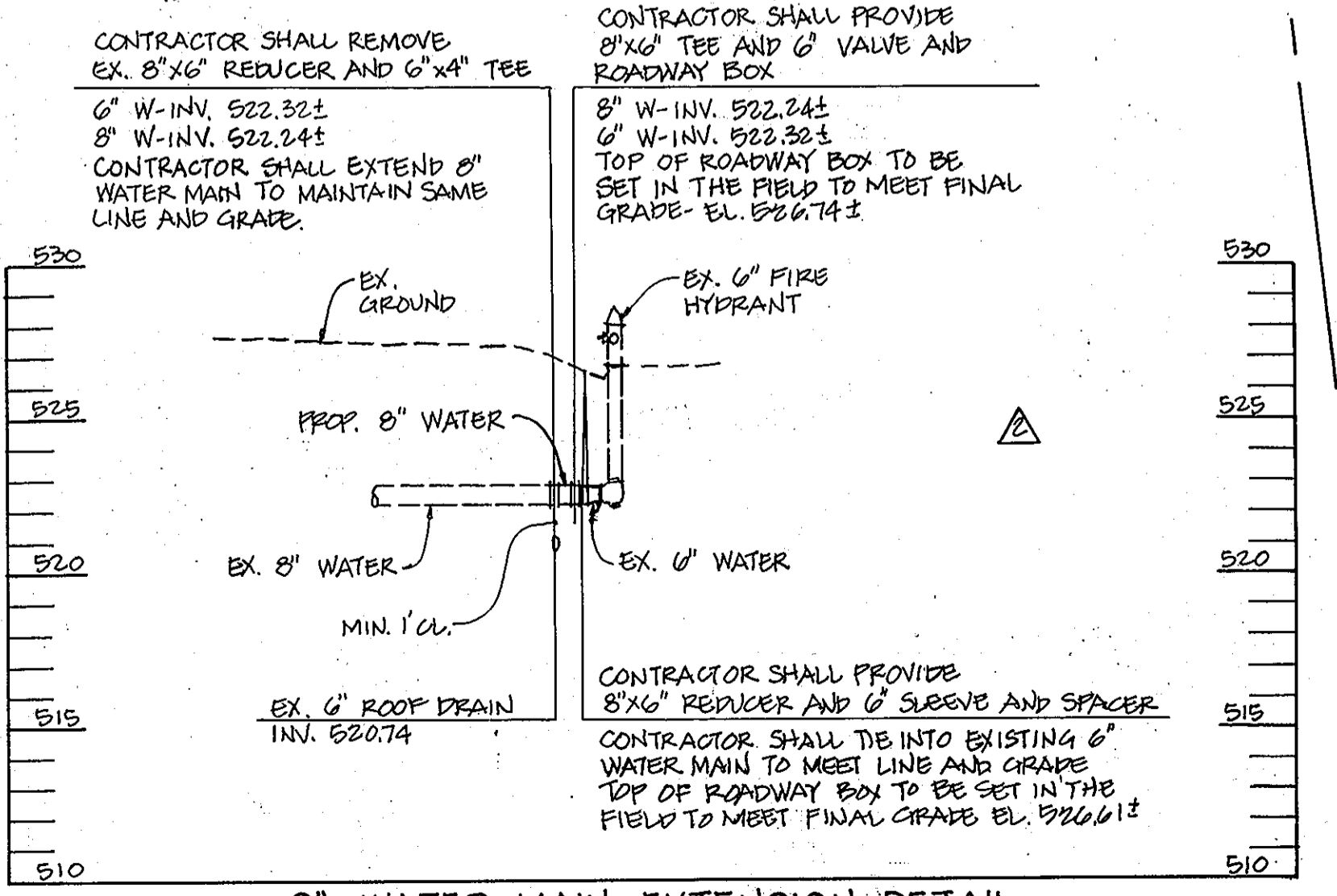
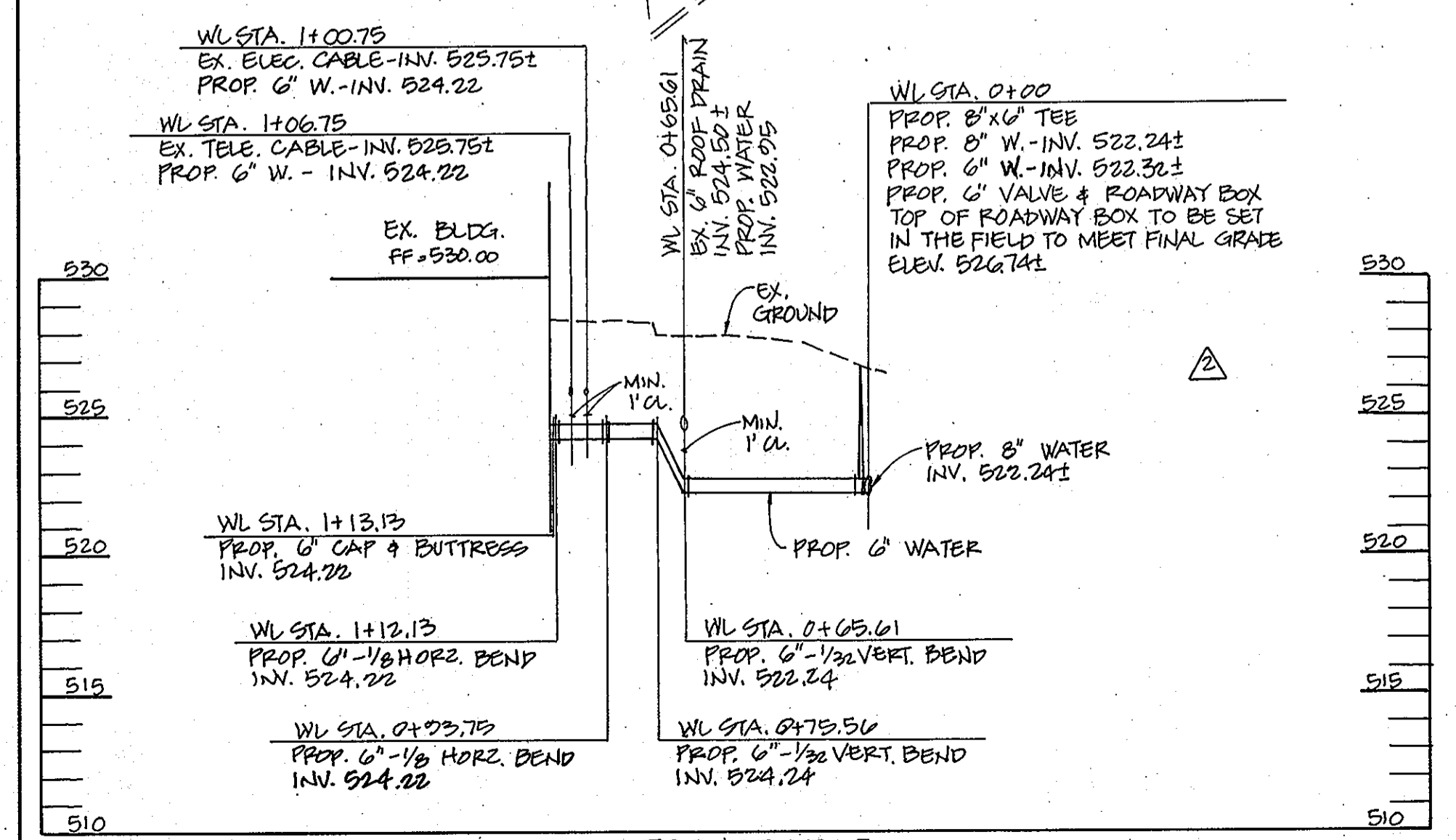
TOP ELEV.: 520.50

BOTTOM ELEV.: 519.70

STONE: CLEAN AGGREGATE
#2 STONE

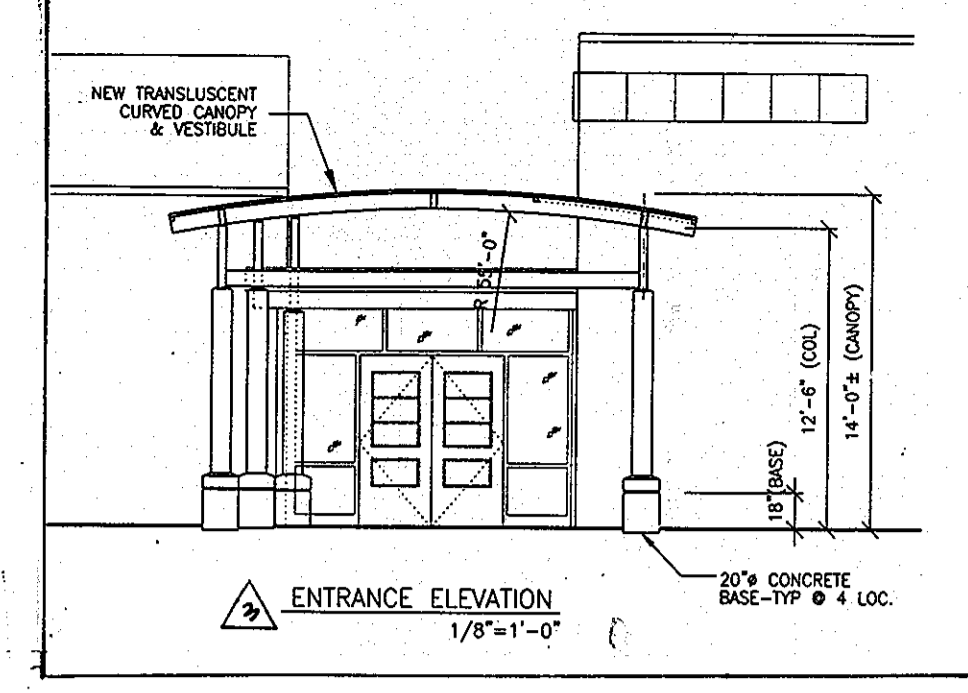


EXISTING WORTHINGTON ELEMENTARY SCHOOL
FF=530.00



WATER MAIN TABULATION CHART

WL STA. (OFFSET)	APPURTENANCE	NORTH/EASTING
0+00	6" X 6" TEE	N919,008.93/E1,970,275.97
0+03.75	6" VALVE & ROADWAY BOX	N914,999.07/E1,970,224.23
1+12.13	6" 1/2" HORZ. BEND	N917,972.75/E1,979,227.80
1+13.13	6" CAP & BUTTRESS	N914,972.19/E1,979,228.73



- NOTE: FIRE DEPARTMENT ACCESS SHALL BE MAINTAINED DURING THE REPLACEMENT OF THE EXISTING WATER SERVICE LINE.
- NOTE: REMOVAL & REPLACEMENT OF SITE LIGHTING (POLE AND BASE) - SEE DETAIL.
- NEW 52" x 10" 3" EM. GENERATOR PAD SURROUNDED BY 6" HIGH GALV. CHAIN-LINKED FENCE
 - NEW AL. STOREFRONT VESTIBULE W/ 14' HIGH CURVED TRANSLUCENT CANOPY SUPPORTED ON 4 COLUMNS - SEE ELEV.

PROPERTY OF
BOARD OF HO. CO.
COMMISSIONERS
180/339
ZONED R-20

REVISION ONLY

BY
SMLO ARCHITECTS
GIBBE ASSOCIATES

STATE OF MARYLAND
PROFESSIONAL ENGINEERING
No. 2715
Whitney Bailey, P.E.
ARCHITECTURAL REGISTRATION BOARD
No. 114-A
Whitney Bailey, P.E.
5-10-07

STATE OF MARYLAND
PROFESSIONAL ENGINEERING
No. 2715
Whitney Bailey, P.E.
ARCHITECTURAL REGISTRATION BOARD
No. 114-A
Whitney Bailey, P.E.
5-10-07

- 5-10-07 CHANGE 6" VALVE AND CAP 8" X 6" TEE AND 6" WATER SERVICE. CONTRACTOR SHALL ABANDON EX. 6" WATER SERVICE IN PLACE.
- 5-10-07 REMOVAL & REPLACEMENT OF SITE LIGHTING. PROVIDE NEW GENERATOR PAD & FENCE, NEW VESTIBULE & ENTRANCE CANOPY.

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

Joseph K. Smith, DIRECTOR, 5/22/97
Michael J. ... CHIEF, DEVELOPMENT ENGINEERING DIVISION, 5/19/97
Richard B. ... CHIEF, DIVISION OF LAND DEVELOPMENT, 5/21/97

DATE	NO.	REVISION
11/19/00	1	CHANGE EX. 6" WATER TO PROP. 6" WATER & ABANDON EX. 6" WATER SERVICE
7-10-97	1	CHANGE 6" PROP. WATER TO 6" PROP. WATER

OWNER/DEVELOPER
BOARD OF EDUCATION OF HOWARD COUNTY
1211 ROUTE 108
ELLCOTT CITY, MD 21042

PROJECT
WORTHINGTON ELEMENTARY SCHOOL
ADDITION/RENOVATION

AREA TAX MAP 31 BLOCK 2
PARCEL 121 ZONE R-20 L.675 F.136
2nd ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

TITLE
SITE DEVELOPMENT PLAN

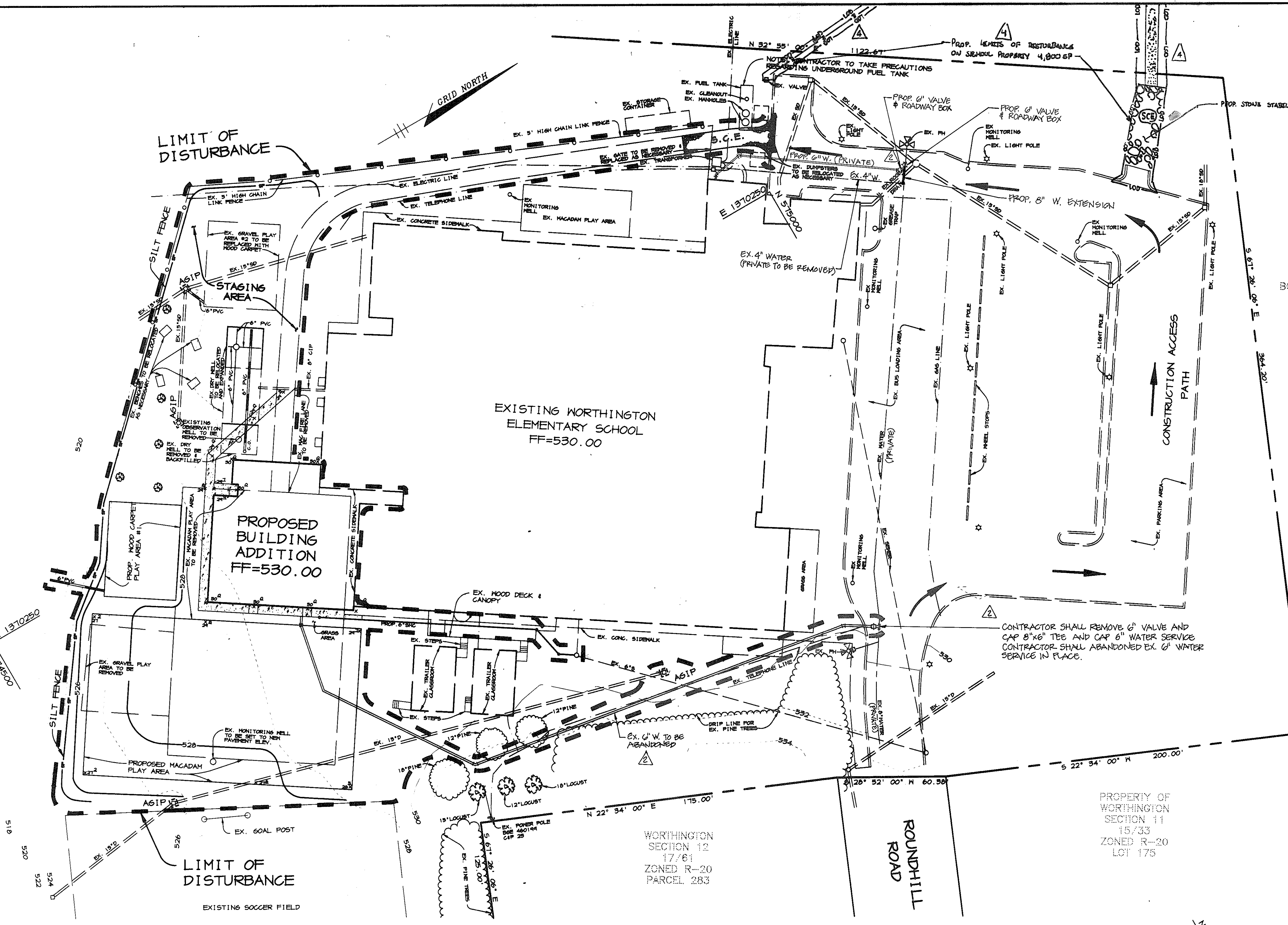
RIEMER MUEGGE & ASSOCIATES, INC.
ENGINEERING • ENVIRONMENTAL SERVICES • PLANNING • SURVEYING
8818 Centre Park Drive, Columbia, Maryland 21045
tel 410.997.8900 fax 410.997.9282

5.12.97
DATE

DESIGNED BY: C.J.R.
DRAWN BY: M.A.D.
PROJECT NO: 96126
SDP2.DWG
DATE: MAY 12, 1997
SCALE: 1" = 30'
DRAWING NO. 2 OF 4

J. Saich
JAYKANT B. PAREKH #19148

K:\PROJECTS\1997\199705\19970504 141 N.H. 3-10-97 21 1893 HIEMER MUEGGE & ASSOCIATES, INC.



PROPERTY OF
BOARD OF HO. CO.
COMMISSIONERS
180/338
ZONED R-20

PROPERTY OF
WORTHINGTON
SECTION 11
15/33
ZONED R-20
LOT 175

WORTHINGTON
SECTION 12
17/61
ZONED R-20
PARCEL 283

THIS PLAN IS FOR GRADING AND SEDIMENT CONTROL ONLY.

BY THE DEVELOPER:
I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN, AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTIONS BY THE HOWARD SOIL CONSERVATION DISTRICT.

Cathleen Conly Young 5/12/97
DEVELOPER DATE

BY THE ENGINEER:
I CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.

J. Farrell 5.12.97
ENGINEER DATE

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

Charles Simon 5/12/97
NATURAL RESOURCES CONSERVATION SERVICE DATE

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

John R. Robertson 5/19/97
HOWARD SOIL CONSERVATION DISTRICT DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.

David H. Smith 5/22/97
DIRECTOR DATE

John P. ... 5/19/97
CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

Richard Blodgett 5/21/97
CHIEF, DIVISION OF LAND DEVELOPMENT DATE

4/24/97 SOLAR ARRAY FEED CONNECTION TO SCHOOL
11/15/00 CHANGE EX. 4" WATER TO PROP. 6" WATER & ABANDONED EX. 6" W. SER. DATE NO. REVISION

OWNER/DEVELOPER
BOARD OF EDUCATION OF HOWARD COUNTY
10810 ROUTE 108
ELLCOTT CITY, MD 21042

PROJECT
NORTHAMPTON ELEMENTARY SCHOOL
ADDITION/RENOVATION

AREA TAX MAP 31 BLOCK 2
PARCEL 121 ZONE R-20 L.675 F.136
2ND ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

TITLE
GRADING AND SEDIMENT CONTROL PLAN

RIEMER MUEGGE & ASSOCIATES, INC.
ENGINEERING • ENVIRONMENTAL SERVICES • PLANNING • SURVEYING
8518 Centre Park Drive, Columbia, Maryland 21045
tel 410.997.8900 fax 410.997.9282

5.12.97
DATE

DESIGNED BY: C.J.R.

DRAWN BY: M.A.D.

PROJECT NO: 98126
SDPA.DWG

DATE: MAY 12, 1997
SCALE: 1" = 30'
DRAWING NO. 3 OF 4

DRY WELL CONSTRUCTION SPECIFICATION

3.4.6.1. Timing
A dry well shall not be constructed or placed in service until all of the contributing drainage area has been stabilized and approved by the responsible inspector.

3.4.6.2. Dry Well Preparation
Excavate the dry well to the design dimensions. Excavated materials shall be placed away from the excavated sides to enhance well stability. Large tree roots shall be trimmed flush with the sides in order to prevent fabric puncturing or tearing during subsequent installation procedures. The side walls of the dry well shall be roughened where sheared and sealed by heavy equipment

3.4.6.3. Fabric Laydown
The filter fabric roll shall be cut to the proper width prior to installation. The cut width must include sufficient material to conform to well perimeter irregularities and for a 6-inch minimum top overlap. Place the fabric roll over the well and unroll a sufficient length to allow placement of the fabric down into the well. Stones or other anchoring objects should be placed on the fabric at the edge of the well to keep the lined well open during windy periods. When overlaps are required between rolls, the upstream roll shall lap a minimum of 2 feet over the downstream roll in order to provide a shingled effect. The overlap ensures fabric continuity or the fabric conforms to the excavation surface during aggregate placement and compaction.

3.4.6.4. Aggregate Placement and Compaction
Drainage aggregate shall be placed in lifts and compacted using plate compactors. As a rule of thumb, a minimum loose lift thickness of 12 inches is recommended. The compaction process ensures fabric conformity to the excavation sides, thereby reducing the potential for soil piping and fabric clogging.

3.4.6.5. Overlapping and Covering
Following aggregate placement, the fabric previously weighted by stones should be folded over the aggregate to form a 6" minimum longitudinal lap. The desired fill soil should be placed over the lap at sufficient intervals to maintain the lap during subsequent backfilling.

3.4.6.6. Contamination
Care shall be exercised to prevent natural or fill soils from intermingling with the drainage aggregate. All contaminated aggregate shall be removed and replaced with uncontaminated aggregate.

3.4.6.7. VOIDS Behind Fabric
VOIDS can be created between the fabric and excavation sides and should be avoided. Removing boulders or other obstacles from the trench walls is one source of such voids. Natural soils should be placed in these voids at the most convenient time during construction to ensure fabric conformity to the excavation sides. Soil piping, fabric clogging, and possible surface subsidence will be avoided by this remedial process.

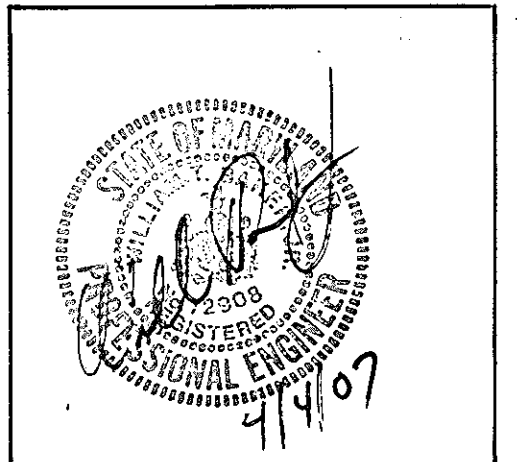
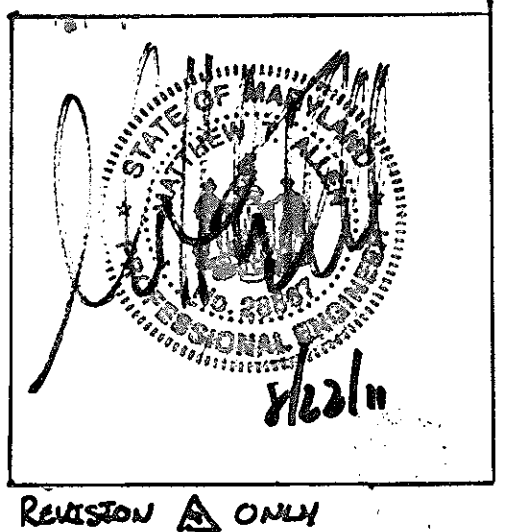
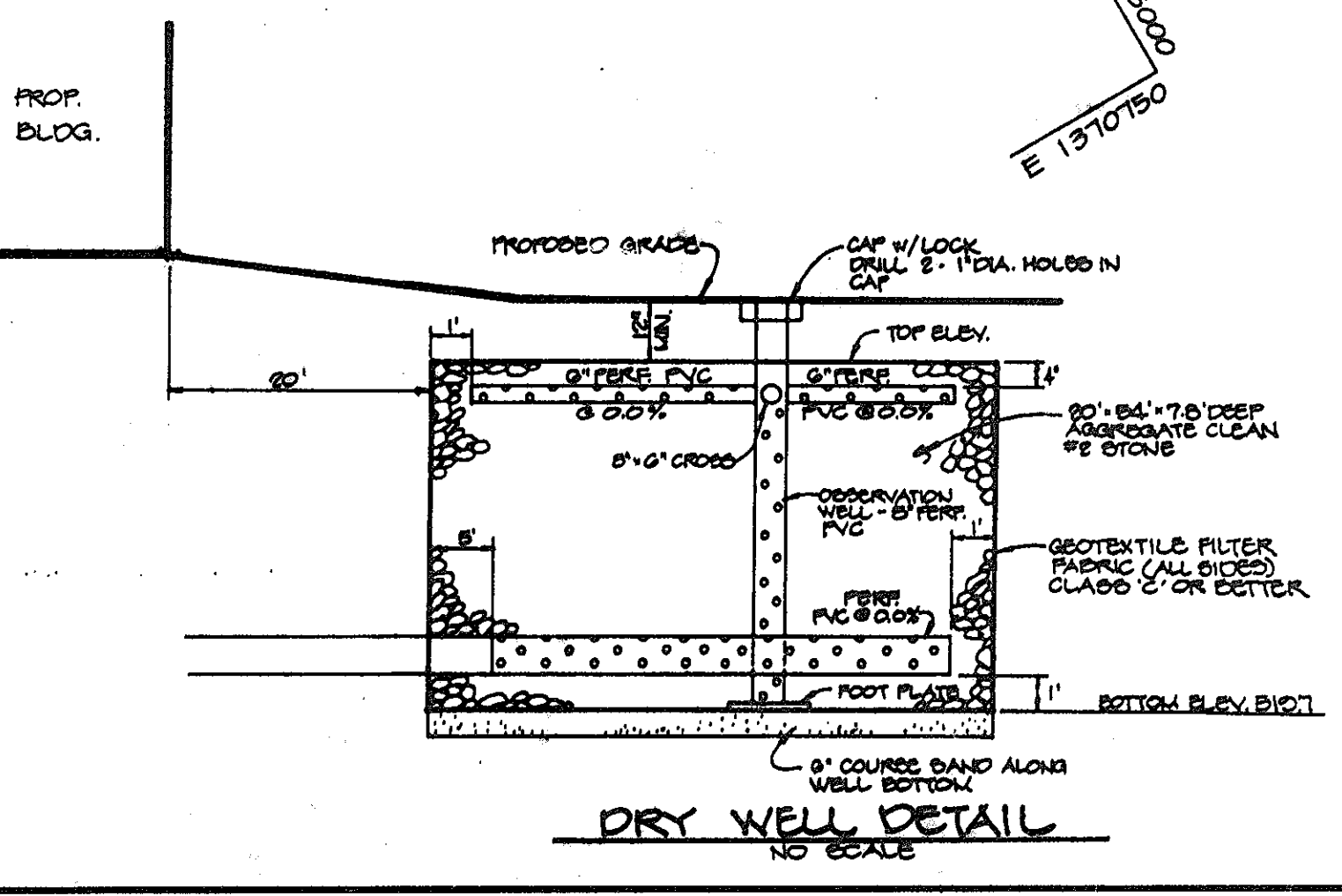
3.4.6.8. Unstable Excavation Sides
Vertically excavated trench walls may be difficult to maintain in areas where the soil moisture is high or where soft cohesive or cohesionless soils predominate. These conditions may require laying back of the side slopes to maintain stability; trapezoidal rather than rectangular cross sections may result.

3.4.6.9. Foundation Protection
Dry wells 3 or more feet deep shall be located at least 10 feet down gradient from foundation walls.

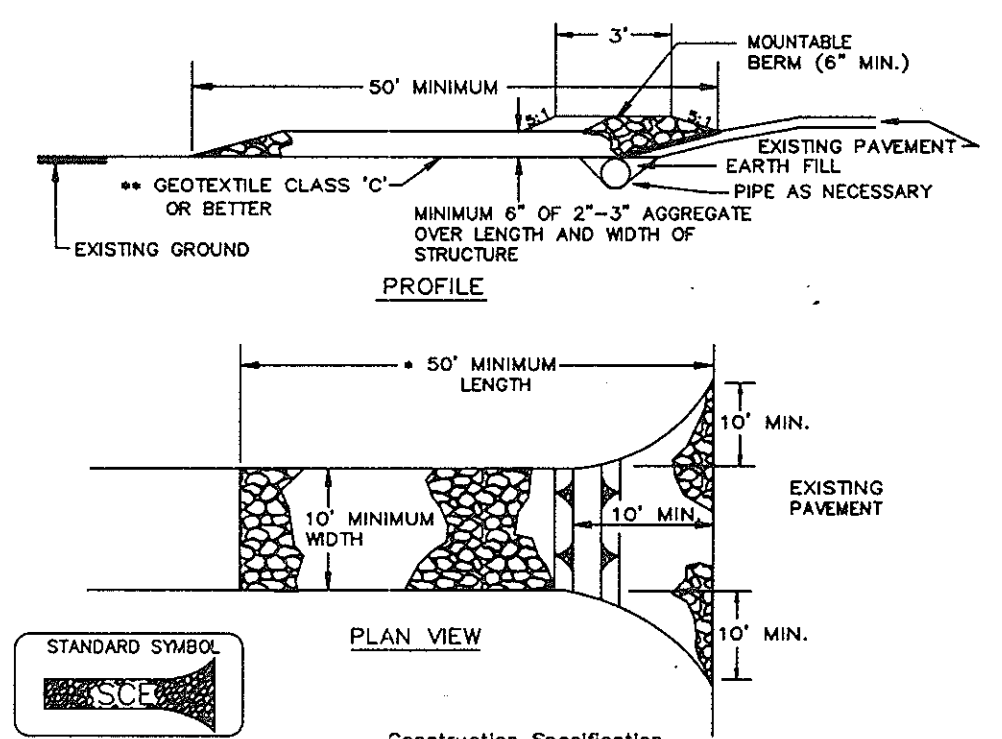
3.4.6.10. Observation Well
An observation well, as described in subsection 3.4.4.8 and Figure 3-5, will be provided. The depth of the well, at the time of installation, will be clearly marked on the well cap.

3.4.7. Maintenance
Dry wells shall be designed to minimize maintenance. However, it is recognized that all infiltration facilities are subject to clogging by sediment, oil, grease, grit and other debris. In addition, the performance and longevity of these structures is not well documented. Consequently, a monitoring observation well is required for all infiltration structures.

The observation well should be monitored periodically. For the first year after completion of construction, the well should be monitored on a quarterly basis and after every large storm. It is recommended that a log book be maintained indicating the rate at which the facility dewater after large storms and the depth of the well for each observation. Once the performance characteristics of the structure have been verified, the monitoring schedule can be reduced to an annual basis, unless the performance data indicate that a more frequent schedule is required.



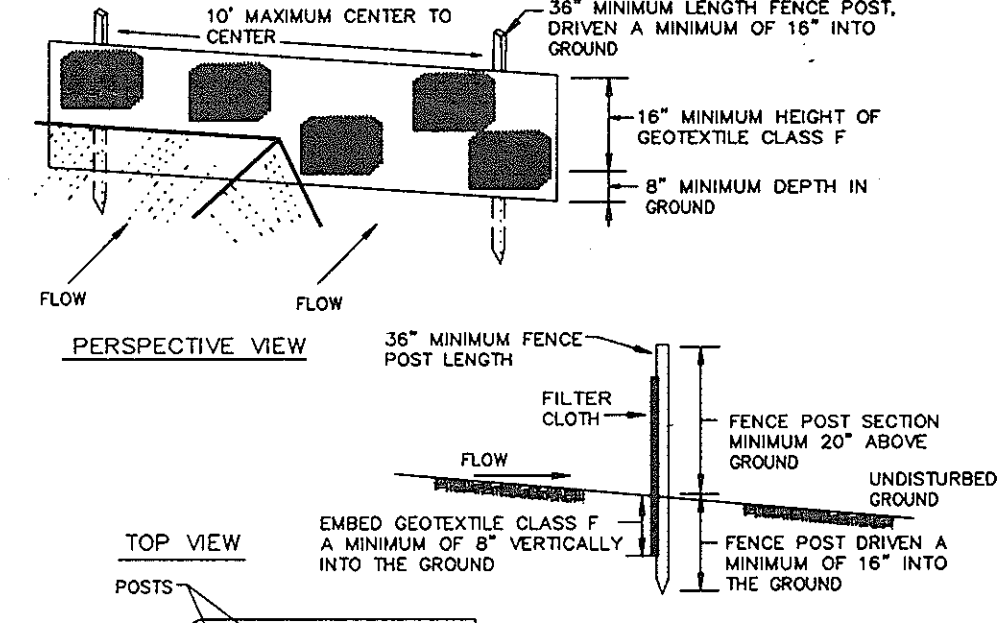
DETAIL 24 - STABILIZED CONSTRUCTION ENTRANCE



Construction Specifications
1. Length - minimum of 50' (+30' for single residence lot).
2. Width - 10' minimum, should be flared at the existing road to provide a turning radius.

U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE
MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION

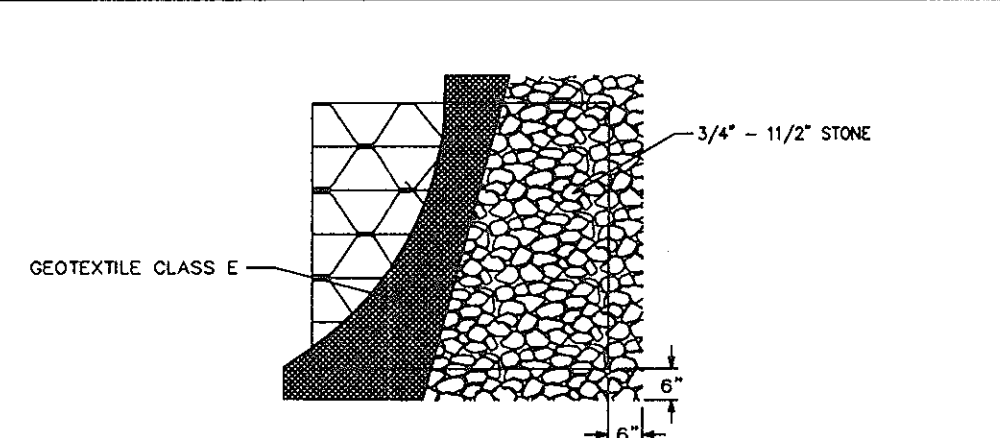
DETAIL 22 - SILT FENCE



Construction Specifications
1. Fence posts shall be a minimum of 36" long driven 16" minimum into the ground. Wood posts shall be 1 1/2" x 1 1/2" square (minimum) cut, or 1 3/4" diameter (minimum) round and shall be of sound quality hardwood.

U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE
MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION

DETAIL 23B - AT GRADE INLET PROTECTION



Construction Specifications
1. Lift grate and wrap with Geotextile Class E to completely cover all openings. Then set grate back in place.
2. Place 3/4" x 1 1/2" stone, 4"-6" thick on the grate to secure the fabric and provide additional filtration.

U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE
MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION

21.0 STANDARD AND SPECIFICATIONS FOR TOPSOIL

Definition
Placement of topsoil over a prepared subsoil prior to establishment of permanent vegetation.
Purpose
To provide a suitable soil medium for vegetative growth. Soils of concern have low moisture content, low nutrient levels, low pH, materials toxic to plants, and/or unacceptable soil gradation.

Conditions Where Practice Applies
1. This practice is limited to areas having 2:1 or flatter slopes where:
a. The texture of the exposed subsoil/parent material is not adequate to produce vegetative growth.

Construction and Material Specifications
1. Topsoil salvaged from the existing site may be used provided that it meets the standards as set forth in these specifications.

Permanent Seeding Notes
Apply to graded or cleared areas not subject to immediate further disturbance where a permanent long-lived vegetative cover is needed.
Seeded Preparation: Loosen upper three inches of soil by raking, discing or other acceptable means before seeding.

TEMPORARY SEEDING NOTES

Apply to graded or cleared areas likely to be redisturbed where a short-term vegetative cover is needed.
Seeded Preparation: Loosen upper three inches of soil by raking, discing or other acceptable means before seeding.

SEQUENCE OF CONSTRUCTION

- 1. CONTRACTOR TO NOTIFY THE HOWARD COUNTY DEP. OF ENVIRONMENT AND PLANNING DIVISION A MINIMUM OF 48 HOURS PRIOR TO THE START OF CONSTRUCTION AT (410) 997-9282.
2. CONTRACTOR TO REMOVE EXISTING PERIMETER ERS CONTROLS, INCLUDING SILT FENCES AS SHOWN ON THIS DRAWING AND SEEDMENT CONTROL PLAN.

SEDIMENT CONTROL NOTES

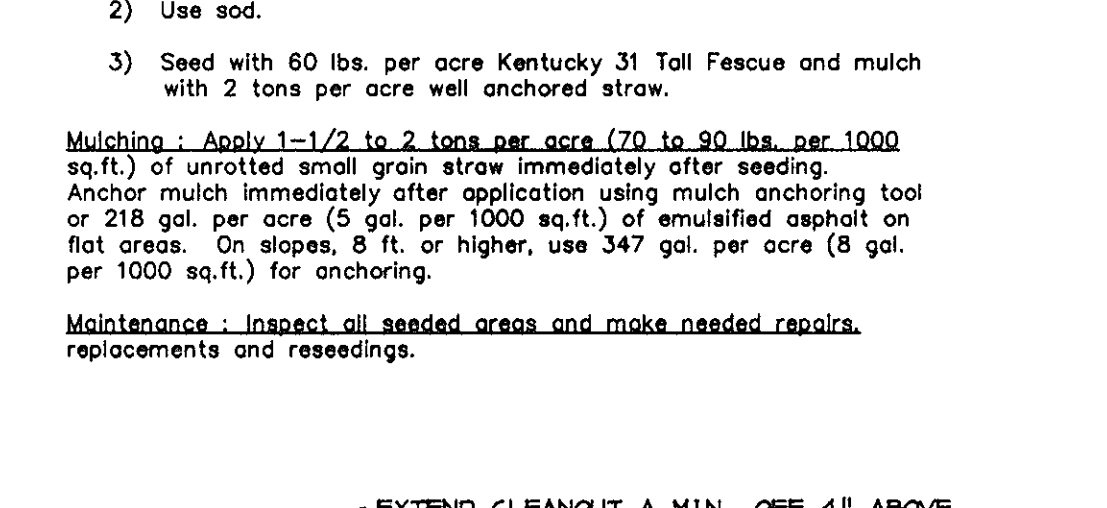
- 1. A minimum of 48 hours notice must be given to the Howard County Department of Inspections and Permits prior to the start of any construction (313-1855).
2. All vegetative and structural practices are to be installed according to the provisions of this plan and are to be in conformance with the MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL AND EROSION CONTROL, and revisions thereto.

MACADAM FIRELANE AND PLAY AREA DETAIL
NO SCALE
COMPACTED SUBGRADE
4" SAND ON SURFACE COURSE

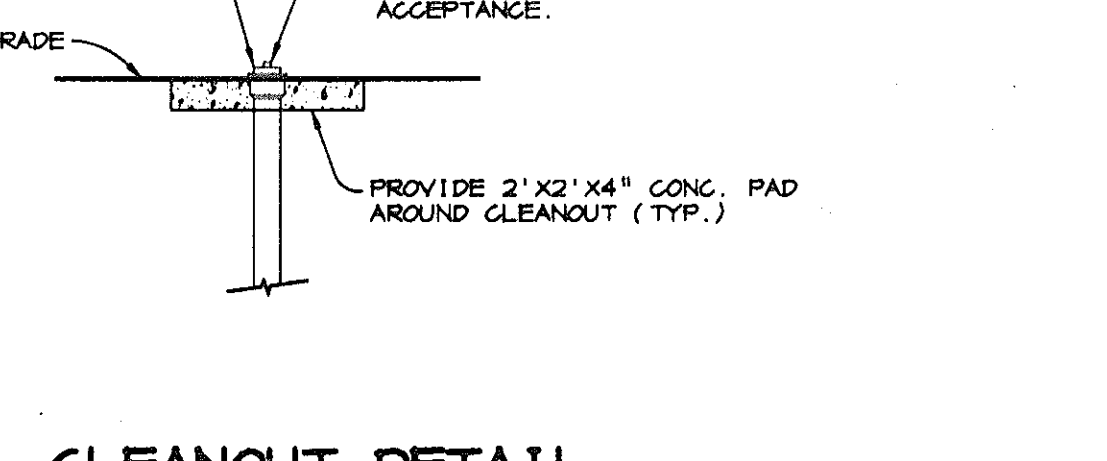
PERMANENT SEEDING NOTES

Apply to graded or cleared areas not subject to immediate further disturbance where a permanent long-lived vegetative cover is needed.
Seeded Preparation: Loosen upper three inches of soil by raking, discing or other acceptable means before seeding.

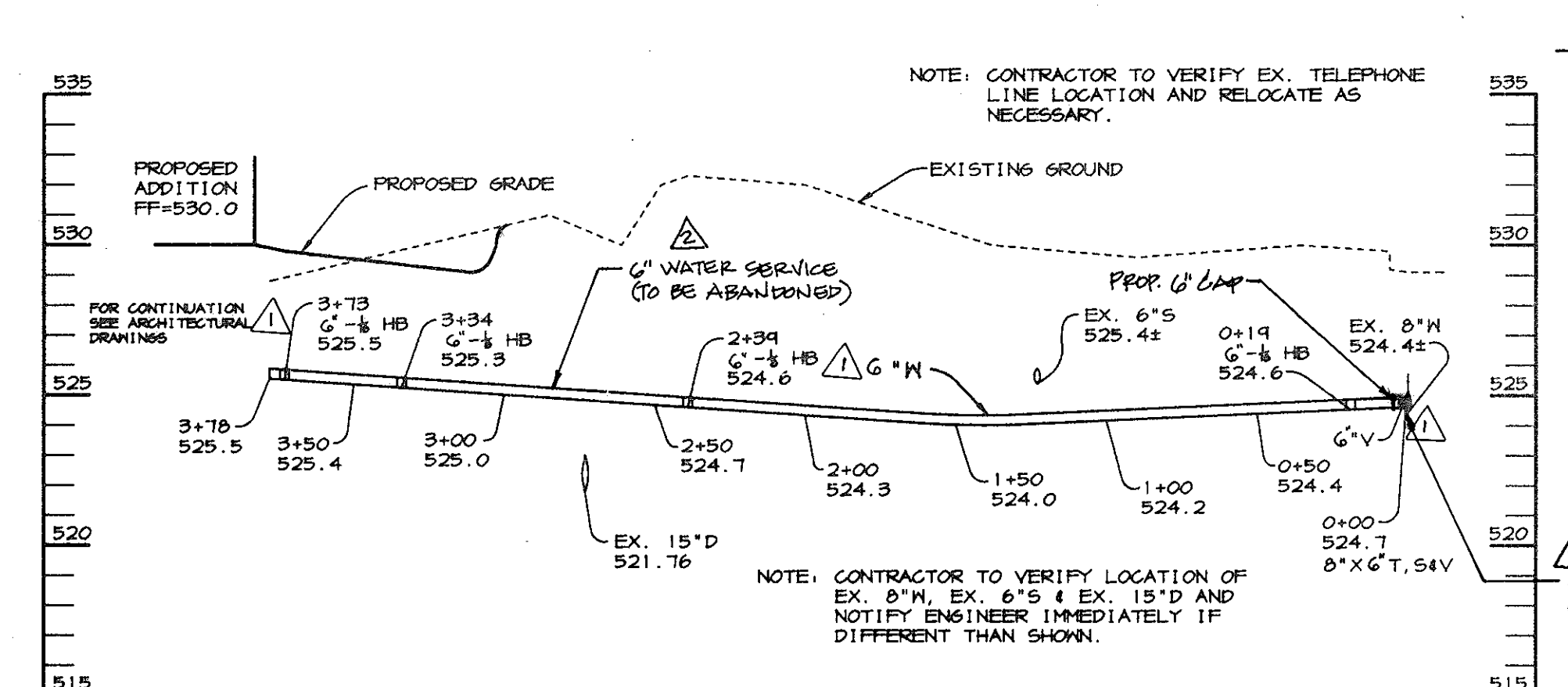
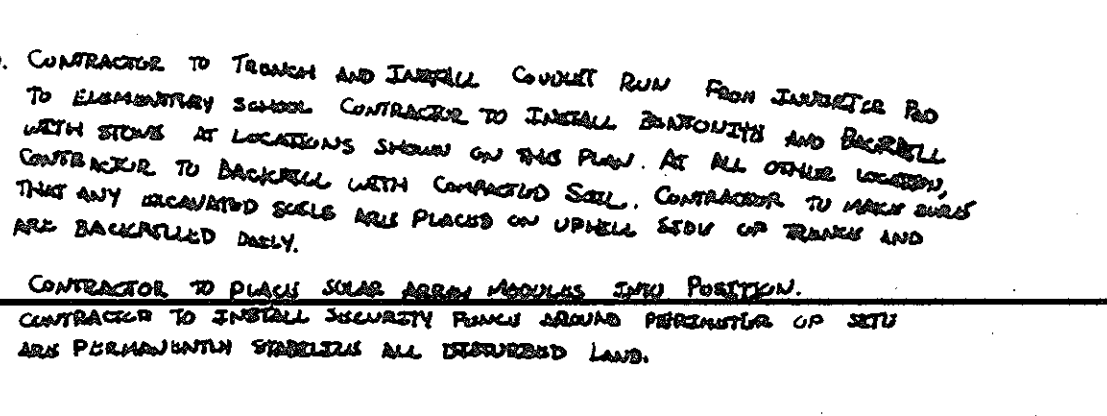
PLAY AREA SURFACE/DRAINAGE DETAIL



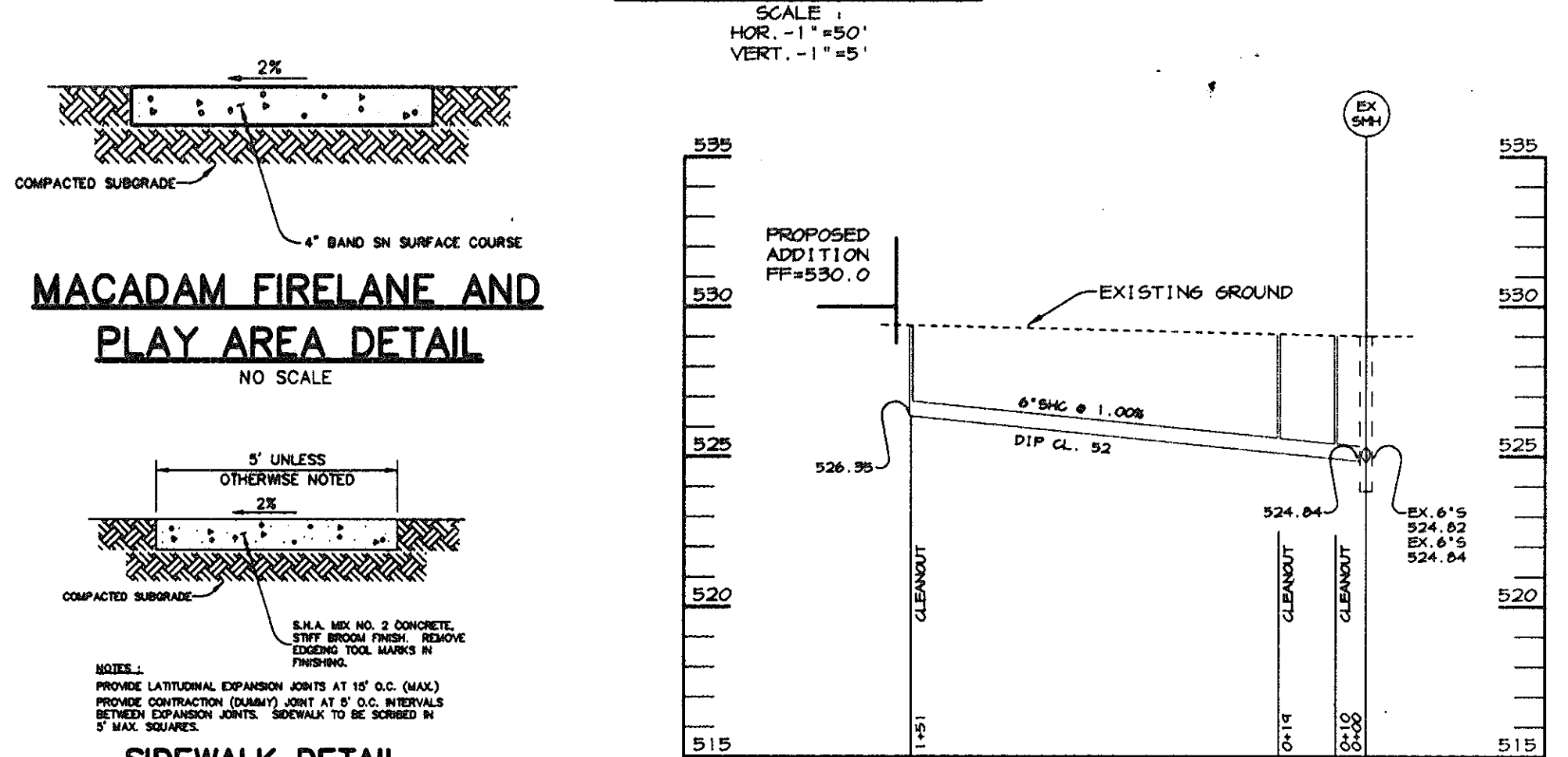
CLEANOUT DETAIL



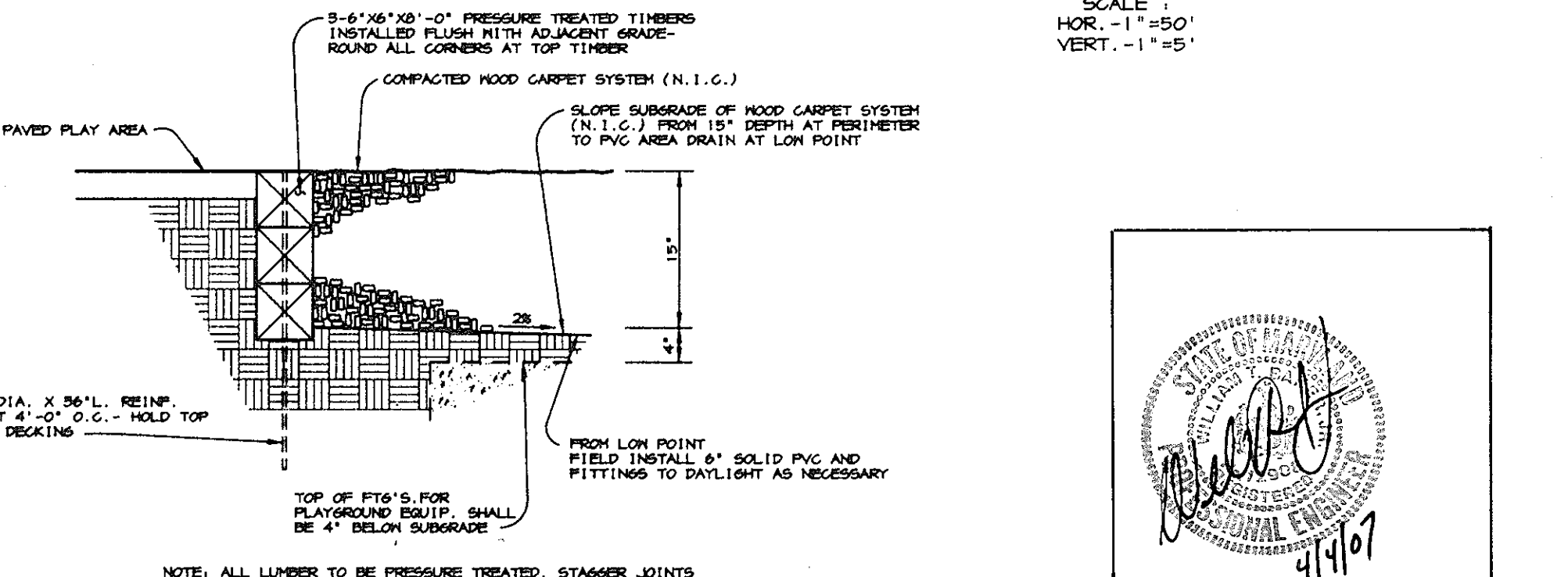
PAVED PLAY AREA-STRIPING DETAIL



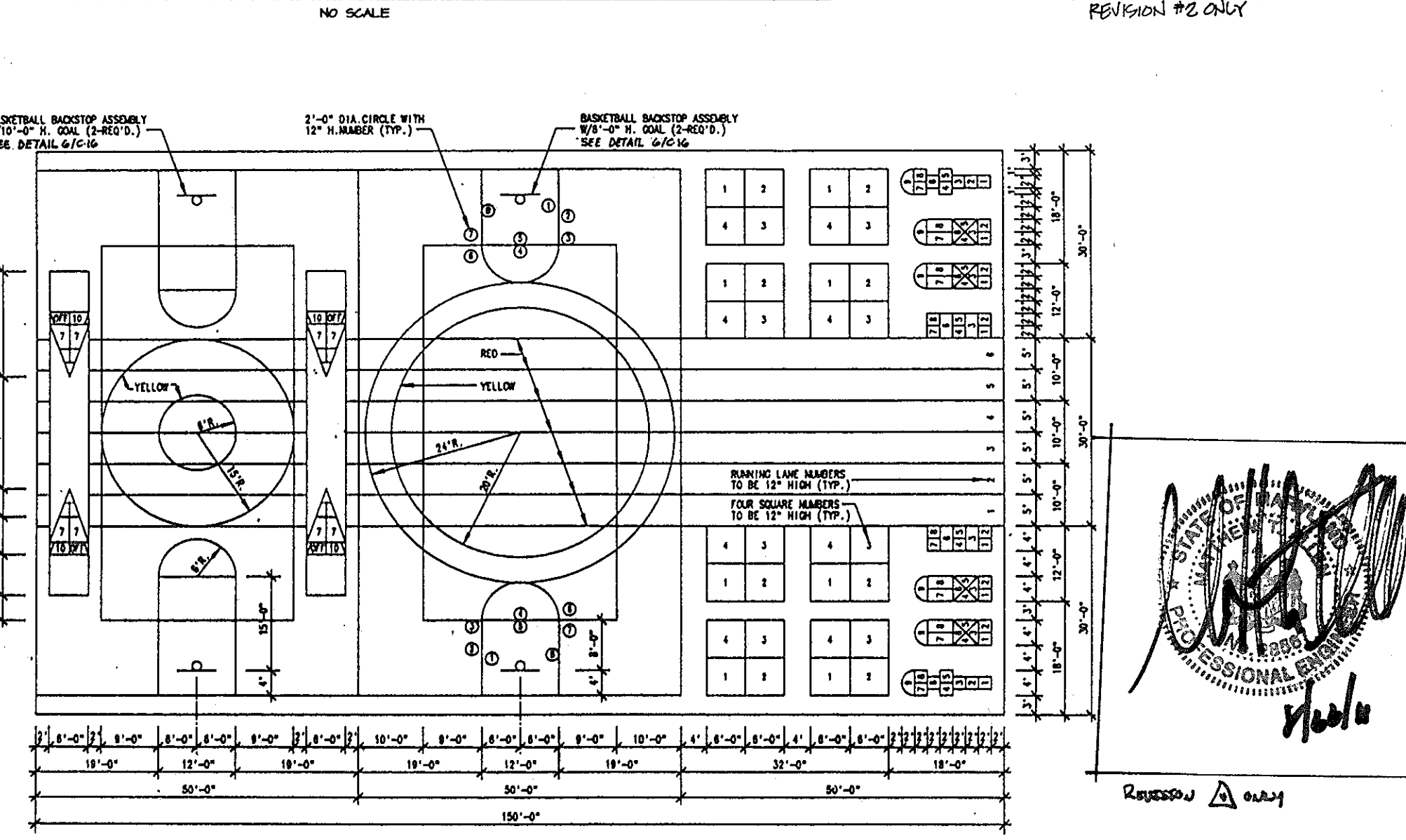
WATER PROFILE



SEWER PROFILE



PLAY AREA SURFACE/DRAINAGE DETAIL



PAVED PLAY AREA-STRIPING DETAIL

SEQUENCE OF CONSTRUCTION

- 1. OBTAIN A GRADING PERMIT.
2. INSTALL STABILIZED CONSTRUCTION ENTRANCE, SILT FENCE AND INLET PROTECTION (2 DAYS)
3. ROUGH GRADE FOR BUILDING CONSTRUCTION AND PLAY AREA. INSTALL WATER AND SEWER AND RELOCATE DRY WELL AWAY FROM PROPOSED BUILDING. EXPAND DRY WELL PER DETAIL AND PLAN AND INSTALL ROOF DRAIN ENCLOSED DRY WELL WITH FENCE TO PROHIBIT CONSTRUCTION TRAFFIC. (10 DAYS)

CONTRACTOR SHALL REMOVE 6" VALVE AND CAP 8" X 6" T. AND CAP 6" WATER SERVICE. CONTRACTOR SHALL ABANDONED EX. 6" WATER SERVICE IN PLACE.

BY THE DEVELOPER:
I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN, AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT.

BY THE ENGINEER:
I CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.

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

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.
DIRECTOR: [Signature]
CHIEF, DEVELOPMENT ENGINEERING DIVISION: [Signature]
CHIEF, DIVISION OF LAND DEVELOPMENT: [Signature]

OWNER/DEVELOPER:
BOARD OF EDUCATION OF HOWARD COUNTY
10910 ROUTE 108
ELLCOTT CITY, MD 21042

PROJECT:
WORTHINGTON ELEMENTARY SCHOOL ADDITION/RENOVATION

AREA:
TAX MAP 31 BLOCK 2
PARCEL 121 ZONE R-20 L. 075 F. 136
2nd ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

NOTES AND DETAILS

RIEMER MUEGGE & ASSOCIATES, INC.
ENGINEERING • ENVIRONMENTAL SERVICES • PLANNING • SURVEYING
8818 Centre Park Drive, Columbia, Maryland 21045
tel 410.997.8900 fax 410.997.9282
5-12-97 DATE
DESIGNED BY: C.J.R.
DRAWN BY: DAM
PROJECT NO: 96126 SDP3.DWG
DATE: MAY 12, 1997
SCALE: AS SHOWN
DRAWING NO. 4 OF 4