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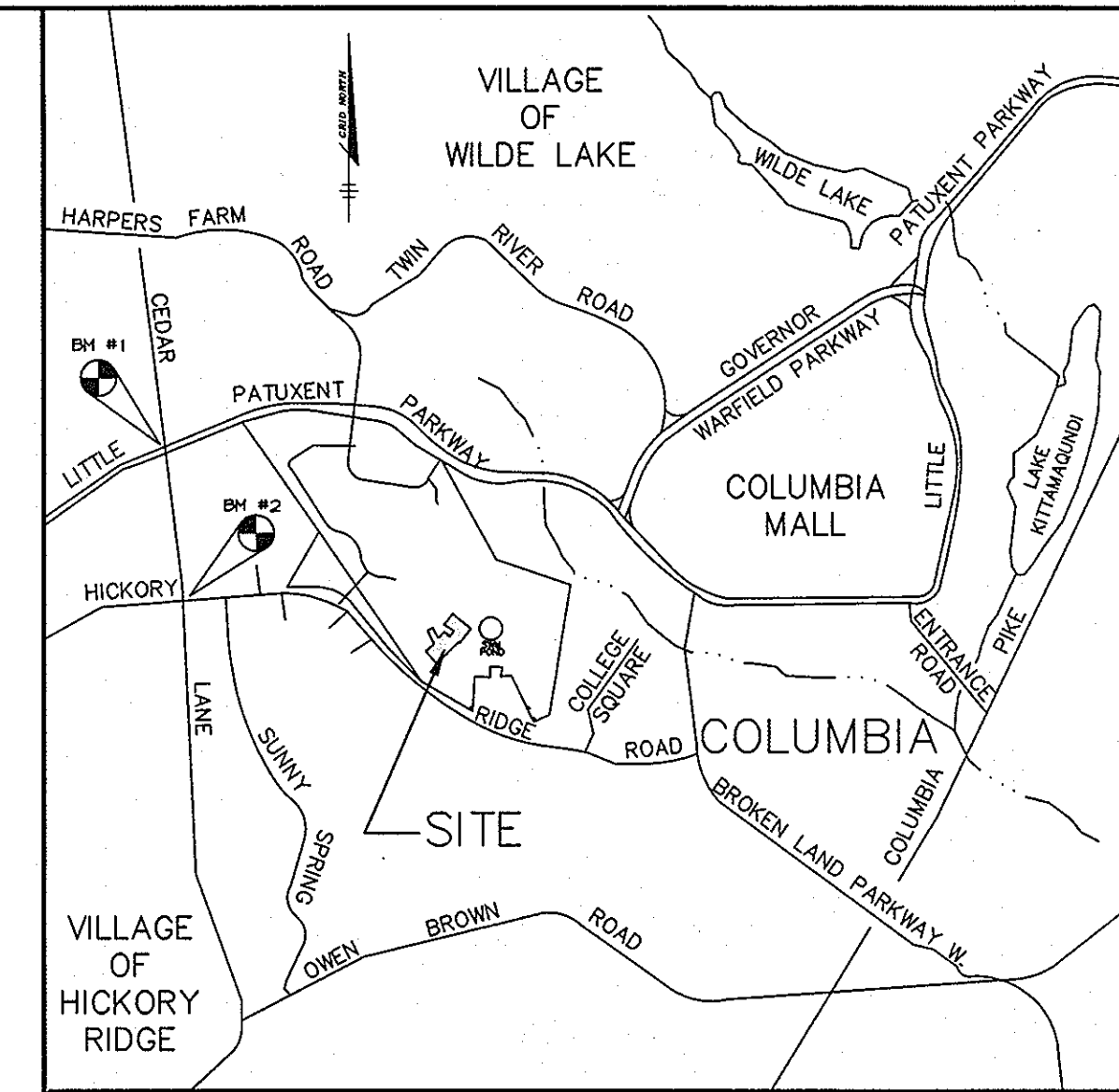
SITE DEVELOPMENT PLAN

HOWARD COMMUNITY COLLEGE

CHILD CARE CENTER

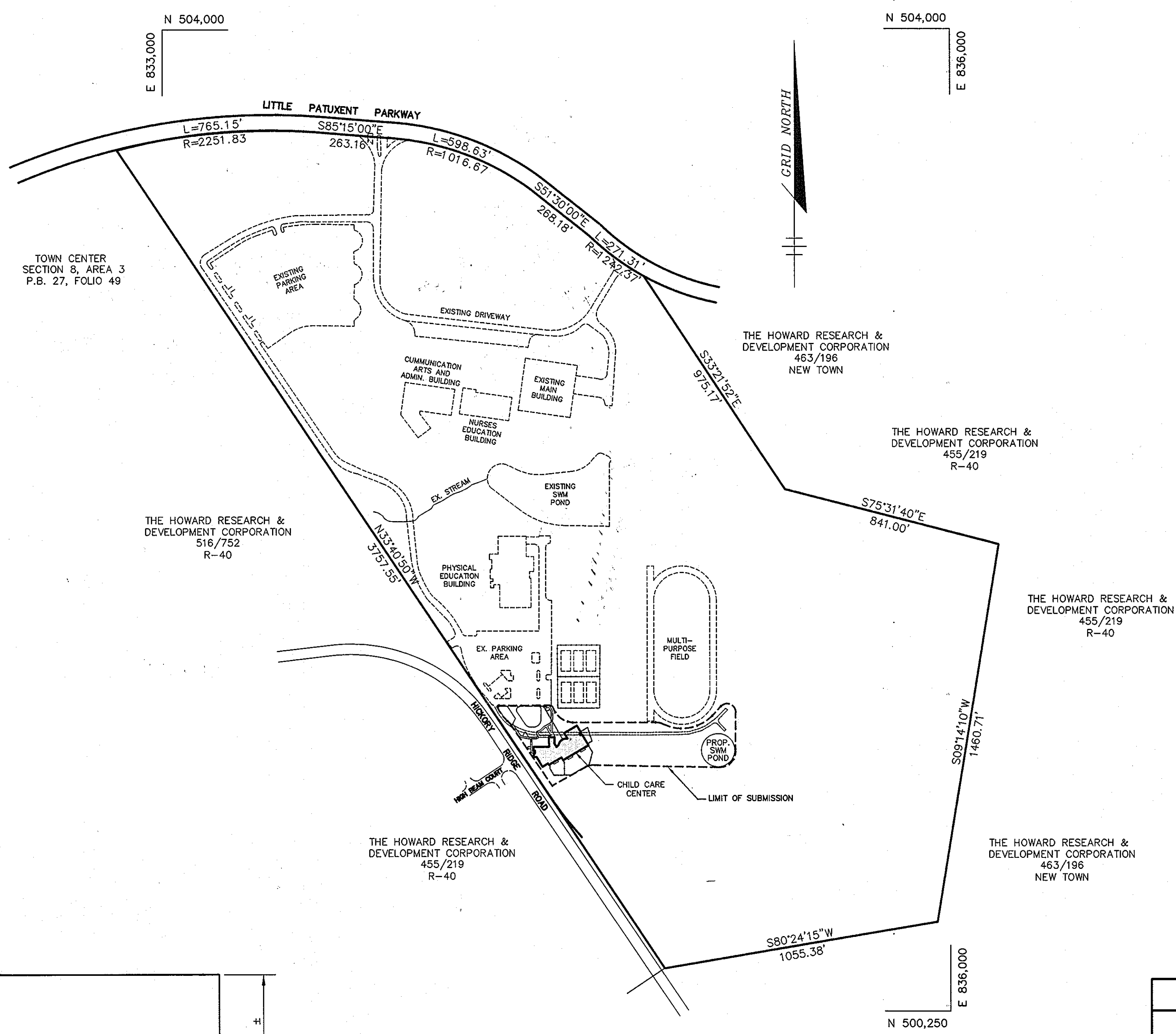
5th ELECTION DISTRICT

HOWARD COUNTY, MARYLAND



GENERAL NOTES

- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST STANDARDS AND SPECIFICATIONS OF HOWARD COUNTY.
- 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.
- ALL PLAN DIMENSIONS ARE TO FACE OF CURB AND FACE OF BUILDING UNLESS OTHERWISE NOTED.
- THE EXISTING TOPOGRAPHY IS TAKEN FROM FIELD SURVEY WITH MAXIMUM TWO FOOT CONTOUR INTERVALS PREPARED BY FISHER, COLLINS & CARTER, INC., DATED SEPTEMBER 26, 1999 AND SUPPLEMENTED BY FIELD RUN SURVEY BY RIEMER MUEGGE & ASSOC. OF THE SWM AREA AND HIGH BEAM COURT, DATED 11/99.
- THE COORDINATES SHOWN HEREON ARE BASED UPON THE HOWARD COUNTY GEODETIC CONTROL WHICH IS BASED UPON THE MARYLAND STATE PLANE COORDINATE SYSTEM. 35C2 AND 35C5 WERE USED.
- WATER IS PUBLIC, CONTRACT NO. 8240-W
- SEWER IS PUBLIC, CONTRACT NO. 8570-W&S SEWER DRAINAGE AREA: PATUXENT TREATMENT PLANT; LITTLE PATUXENT WWTP
- 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.
- A 100-YEAR FLOODPLAIN STUDY IS NOT REQUIRED FOR THIS PROJECT.
- A NOISE STUDY IS NOT REQUIRED FOR THIS PROJECT.
- THE GEOTECHNICAL STUDY FOR THIS PROJECT WAS PERFORMED BY HILLIS CARNES ENGINEERING ASSOCIATES AND IS DATED NOVEMBER 9, 1999.
- THE PROPERTY LINE SHOWN WAS TAKEN FROM A FIELD SURVEY BY FISHER, COLLINS AND CARTER DATED 9/26/99.
- SUBJECT PROPERTY ZONED POR 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. SDP-97-45, SDP-75-46, SDP-87-95, SDP-76-30, PB-229, SDP-68-12, SDP-75-32.
- 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 PER HOWARD CO. STANDARD SPECIFICATIONS
- ALL STORM DRAIN INLETS SHALL BE CONSTRUCTED IN ACCORDANCE WITH HOWARD COUNTY STANDARDS.
- ALL PIPE ELEVATIONS SHOWN ARE INVERT ELEVATIONS.
- STORM DRAIN TRENCHES WITHIN PAVEMENT 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.
- THERE ARE NO WETLANDS ON-SITE FOR THIS PROJECT BASED ON AN OCTOBER 13, 1999 FIELD INSPECTION BY RIEMER MUEGGE AND ASSOCIATES.
- A LANDSCAPE PLAN HAS BEEN PREPARED IN ACCORDANCE TO SECTION 16.124 OF THE HOWARD COUNTY CODE AND LANDSCAPE MANUAL FOR THIS SITE.
- HOWARD COMMUNITY COLLEGE HAS FILED FOR A DECLARATION OF INTENT TO MEET FOREST CONSERVATION OBLIGATIONS. THERE WILL BE 34,500 S.F. OF FOREST CLEARED.
- A TRAFFIC STUDY FOR THIS PROJECT WAS PERFORMED BY LEE CUNNINGHAM & ASSOCIATES INC. DATED NOVEMBER 1999.
- PLEASE REFER TO ARCHITECTURAL PLANS FOR BUILDING DIMENSIONS, SPECIFICATIONS AND COMPACTION REQUIREMENTS FOR BUILDING PAD AND DETAILS RELATED TO UTILITY CONNECTIONS AT BUILDING.
- BUILDING AND USE SETBACK IS 30'.
- PER HOWARD COMMUNITY COLLEGE, TRASH WILL BE PICKED UP ON A TWICE PER DAY SCHEDULE. HCC WILL USE TRASH CANS FOR THIS FACILITY.
- THE CHILD CARE CENTER WILL HAVE AN INSIDE, PRIVATE WATER METER.
- SITE LIGHTING SHALL BE IN ACCORDANCE WITH SECTION 134 OF THE ZONING REGULATIONS.
- ROOF LEADERS TO BE PVC, SCHEDULE 40 AND BE PLACED AT A 2% MINIMUM SLOPE.
- THE ASPHALT PATH SHALL BE REPLACED / RELOCATED TO THE LIMITS SHOWN. SEE DETAIL SHEET 6.
- HOWARD COMMUNITY COLLEGE AGREES TO CONSTRUCT AN ASPHALT PATH FROM HICKORY RIDGE RD. TO THE CHILD CARE CENTER (WEST SIDE SIDEWALK) IN THE FUTURE IF REQUESTED FROM THE HOWARD COUNTY BOARD OF EDUCATION.
- WHEN CONNECTING NEW CONCRETE CURB AND GUTTER TO EXISTING CURB, USE A 5' TRANSITION TO MATCH TOP OF CURB.
- THE FRONT ENTRANCE SHALL BE HANDICAP ACCESSIBLE.
- ALL CURB RADII SHALL BE 5' UNLESS OTHERWISE NOTED.



| VICINITY MAP | |
|--|---|
| SCALE: 1" = 2000' | |
| AREA OF PARCEL 47 | 119.6 ACRES |
| DISTURBED AREA | BUILDING AREA 1.8 ACRES SWM ROND AREA 0.6 ACRES |
| PRESENT ZONING | POR |
| PROPOSED USE | DAY CARE CENTER (USED IN CONJUNCTION WITH COLLEGE - NOT A COMMERCIAL FACILITY) |
| BUILDING COVERAGE | 12,700 SF ± |
| # OF PARKING SPACES REQUIRED | ** SEE PARKING CALCULATIONS BELOW |
| # OF PARKING SPACES PROVIDED | 1,628 |
| PAVED AREA | 7,000 SF |
| PARKING CALCULATIONS | |
| STUDENTS: 2 SPACES / 3 STUDENTS | (PER SITE PLAN SDP-75-46) |
| 1316 FULL TIME EQUIVALENT STUDENTS x (2/3) = | 877 SPACES |
| COLLEGE EMPLOYEES: 1 SPACE / EMPLOYEE | |
| 326 EMPLOYEES x 1 = | 326 SPACES |
| DAYCARE SPACES: 3/1000 S.F. | |
| △ 12,700 S.F. x 3/1000 = | 39 SPACES |
| TOTAL REQUIRED SPACES 877 + 326 + 39 = | 1242 SPACES △ |
| EXISTING PARKING | 1628 SPACES |
| PROPOSED PARKING (12 SPACES + 2 HC) | 14 SPACES |
| MINUS 1 SPACE (DELETED FOR PATH ACCESS) | - 1 SPACES |
| TOTAL PROVIDED (1628 + 14 - 1) | 1641 SPACES |

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.

Frank J. Taylor 2/2/00 DATE
DIRECTOR

Arthur E. Muegge 2/16/00 DATE
CHIEF, DEVELOPMENT ENGINEERING DIVISION

Cindy Hamlett 2/1/00 DATE
CHIEF, DIVISION OF LAND DEVELOPMENT

4-12-00 REV. SITE ANALYSIS, GEN. NOTE #29 & EAST ELEVATION

| DATE | NO. | REVISION |
|------|-----|----------|
| | | |

OWNER / DEVELOPER

HOWARD COUNTY COMMUNITY COLLEGE
10901 LITTLE PATUXENT PARKWAY
COLUMBIA, MARYLAND 21044-3197
ATTN: MR. JAMES O. LASH
410-772-4296

PROJECT

HOWARD COMMUNITY COLLEGE
CHILD CARE CENTER

AREA

PARCEL 47 ZONED POR
TAX MAP NO. 35, 36 BLOCK 6 & 1
5th ELECTION DISTRICT, HOWARD COUNTY, MD.

TITLE

TITLE SHEET

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

| |
|-------------------------|
| DESIGNED BY: A.A.P. |
| DRAWN BY: J.A.P. |
| PROJECT NO: 99250 |
| DATE: FEBRUARY 24, 2000 |
| SCALE: AS SHOWN |
| DRAWING NO. 1 OF 12 |

ARTHUR E. MUEGGE #8707

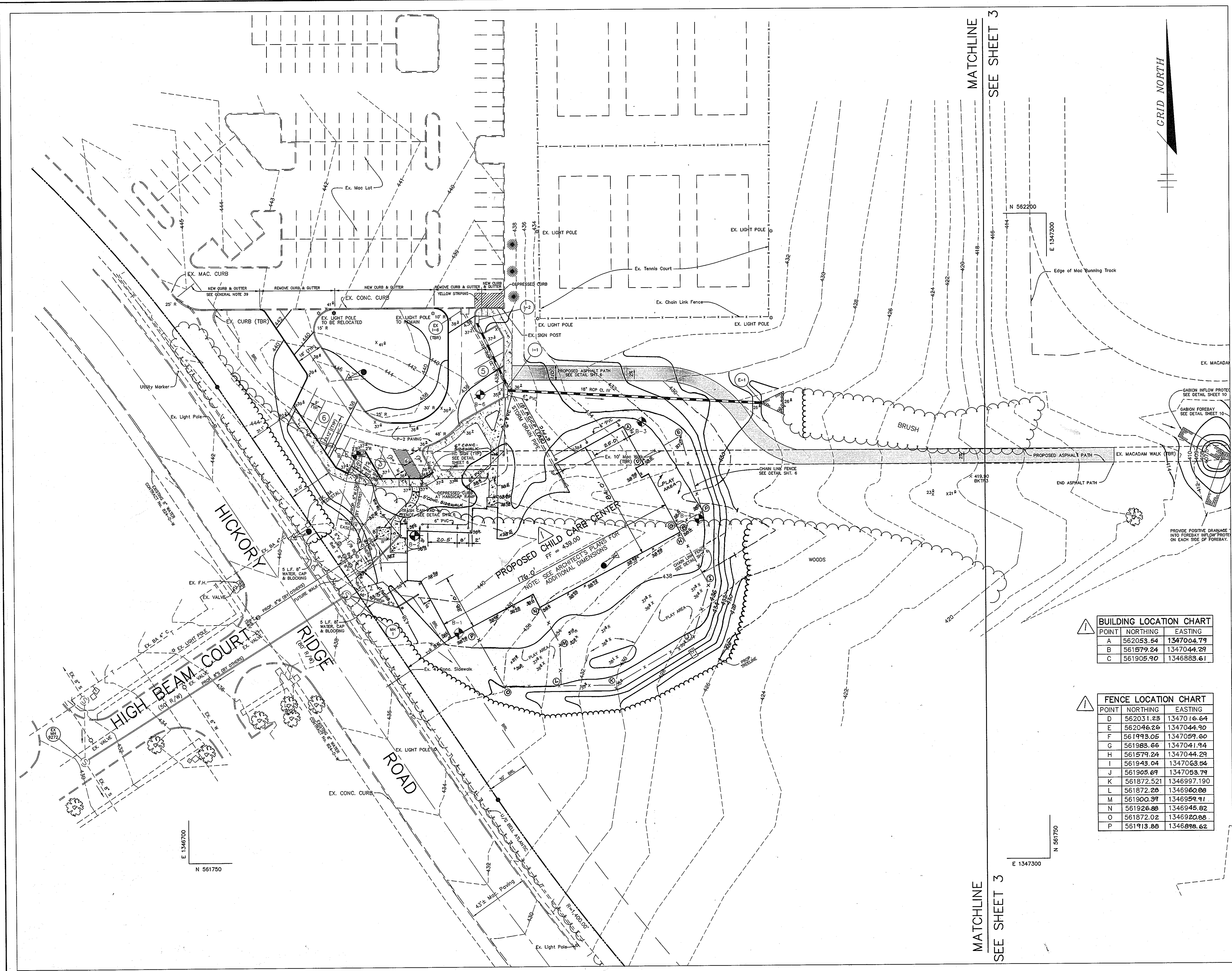
| ADDRESS CHART | |
|---------------|-------------------------------|
| PARCEL | STREET ADDRESS |
| 47 | 10901 LITTLE PATUXENT PARKWAY |

| | | | | | |
|--------------------|--------------------------|--------------|---------|-----------------|--------|
| SUBDIVISION NAME - | HOWARD COMMUNITY COLLEGE | SECT./AREA - | N/A | PARCEL - | 47 |
| LOT - | 486/224 | BLOCK # - | 6 & 1 | ZONING - | 35, 36 |
| TAX MAP NO. - | 523/32D | FOR | | ELECT. DIST. - | 5th |
| WATER CODE - | 107 | SEWER CODE - | 5522500 | DENSITY TRACT - | 6056 |



△ EAST ELEVATION
SCALE: 1" = 10'

LOCATION PLAN
SCALE: 1" = 300'



MATCHLINE
SEE SHEET 3

MATCHLINE
SEE SHEET 3



BUILDING LOCATION CHART

| POINT | NORTHING | EASTING |
|-------|-----------|------------|
| A | 562053.64 | 1347004.79 |
| B | 561579.24 | 1347044.29 |
| C | 561905.90 | 1346888.61 |

FENCE LOCATION CHART

| POINT | NORTHING | EASTING |
|-------|------------|-------------|
| D | 562031.23 | 1347016.64 |
| E | 562046.26 | 1347044.90 |
| F | 561993.05 | 1347059.60 |
| G | 561983.66 | 1347041.94 |
| H | 561579.24 | 1347044.29 |
| I | 561943.04 | 1347063.54 |
| J | 561905.69 | 1347053.79 |
| K | 561872.521 | 1346997.190 |
| L | 561872.28 | 1346960.88 |
| M | 561900.37 | 1346959.91 |
| N | 561926.88 | 1346945.82 |
| O | 561872.02 | 1346920.88 |
| P | 561913.88 | 1346898.62 |

AS BUILT CERTIFICATE

DATE

APPROVED : HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.

DIRECTOR *James D. Lyle* DATE 1/10

CHIEF, DEVELOPMENT ENGINEERING DIVISION *John Dammann* DATE 3/6/00

CHIEF, DIVISION OF LAND DEVELOPMENT *Cindy Kharvillat* DATE 3/7/00

4-12-00 *REV. BUILDING LAYOUT, WHC LOCATION, GRADINGS, ROOF DRAINS, PLAY AREA, SHC LOCATION, SIDEWALK & BLDG. & FENCE LOC. CHART*

DATE NO. REVISION

OWNER / DEVELOPER
HOWARD COUNTY COMMUNITY COLLEGE
10901 LITTLE PATUXENT PARKWAY
COLUMBIA, MARYLAND 21044-3197
ATTN: MR. JAMES O. LASH
410-772-4296

PROJECT
**HOWARD COMMUNITY COLLEGE
CHILD CARE CENTER**

AREA
PARCEL 47 ZONED POR
TAX MAP NO. 35, 36 BLOCK 6 & 1
5th ELECTION DISTRICT, HOWARD COUNTY, MD.

TITLE
SITE DEVELOPMENT PLAN

RIEMER MUEGGE & ASSOCIATES INC.
ENGINEERING • ENVIRONMENTAL SERVICES • PLANNING • SURVEYING
8818 Centre Park Drive, Columbia, MD 21045
tel 410.997.8900 fax 410.997.8282

DESIGNED BY : A.A.P.

DRAWN BY : J.A.P.

PROJECT NO : 99250

DATE : FEBRUARY 24, 2000

SCALE : 1"=30'

DRAWING NO. 2 OF 12

ARTHUR E. MUEGGE #8707

SDP-00-56

| SWM SUMMARY CHART SWMF DA: 6.2 AC. | | | | | | |
|------------------------------------|--|---------------------|----------------------------|--|-----------|------------|
| STORM | EXISTING PEAK DISCHARGE AT STUDY POINT 1 | PEAK INFLOW TO POND | PEAK DISCHARGE OUT OF POND | PROPOSED PEAK DISCHARGE AT STUDY POINT 1 | ELEVATION | STORAGE |
| 1 YR. | 3.72 CFS | 5.0 CFS | 0.1 CFS | 0.5 CFS | 408.4 | 0.25 AC*FT |
| 2 YR. | 7.1 CFS | 8.1 CFS | 0.9 CFS | 1.6 CFS | 408.5 | 0.27 AC*FT |
| 10 YR. | 22.5 CFS | 19.6 CFS | 13.3 CFS | 21.2 CFS | 409.3 | 0.42 AC*FT |
| 100 YR. | 43.7 CFS | 33.6 CFS | 27.6 CFS | 44.8 CFS | 409.9 | 0.54 AC*FT |

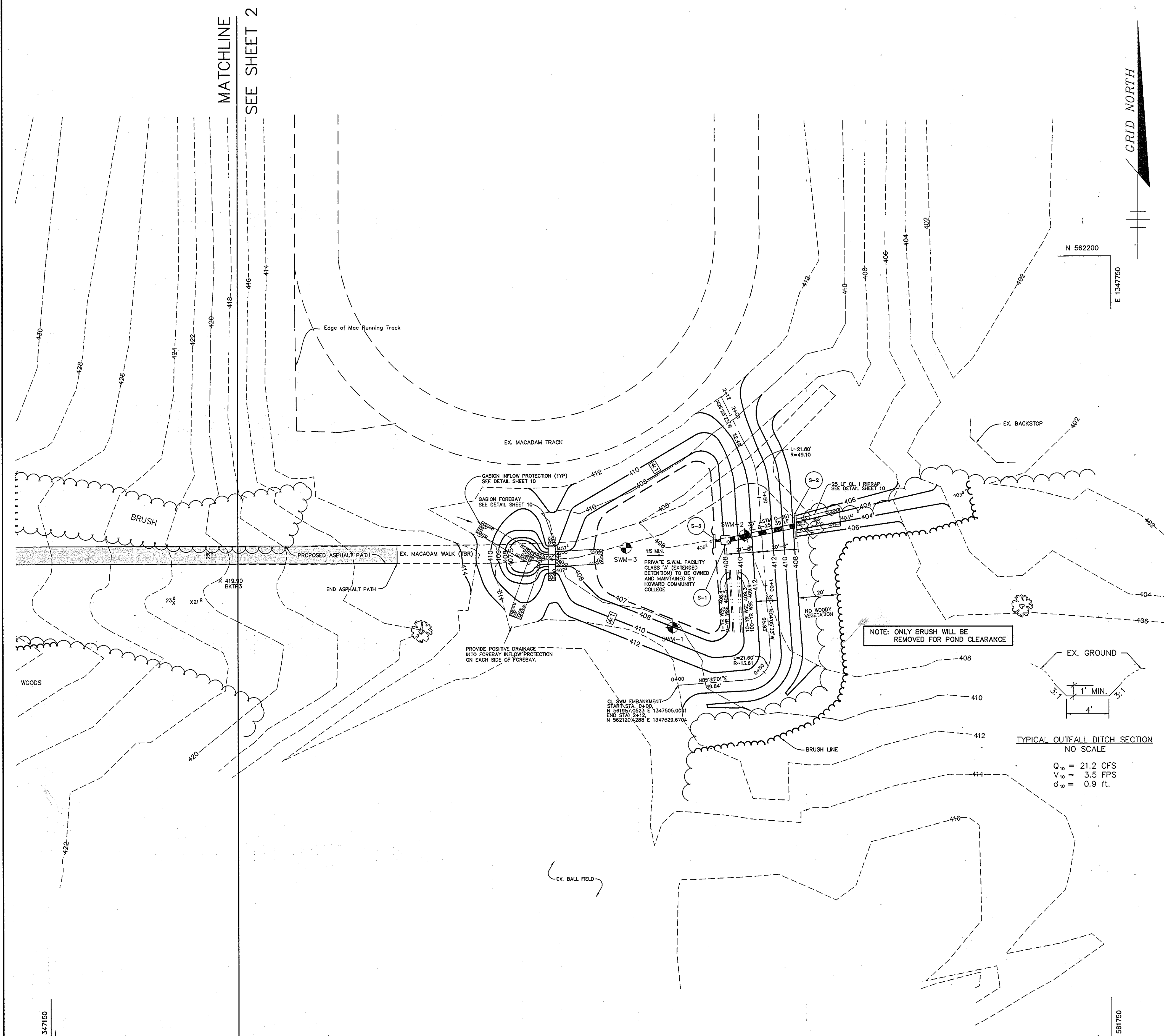
OPERATION AND MAINTENANCE SCHEDULE OF PRIVATELY OWNED AND MAINTAINED STORMWATER MANAGEMENT FACILITY EXTENDED DETENTION POND

ROUTINE MAINTENANCE

1. Facility shall be inspected annually and after major storms. Inspections should be performed during wet weather to determine if the pond is functioning properly.
2. Top and side slopes of the embankment shall be mowed a minimum of two (2) times a year, once in June and once in September. Other side slopes, the bottom of the pond, and maintenance access should be mowed as needed.
3. Debris and litter next to the outlet structure shall be removed during regular mowing operations and as needed.
4. Visible signs of erosion in the pond as well as riprap outlet area shall be repaired as soon as it is noticed.

NON-ROUTINE MAINTENANCE

1. Structural components of the pond such as the dam, the riser, and the pipes shall be repaired upon the detection of any damage. The components should be inspected during routine maintenance operations.
2. Sediment should be removed when its accumulation significantly reduces the design storage, interfere with the function of the riser, when deemed necessary for aesthetic reasons, or when deemed necessary by the Howard County's Department of Public Works.

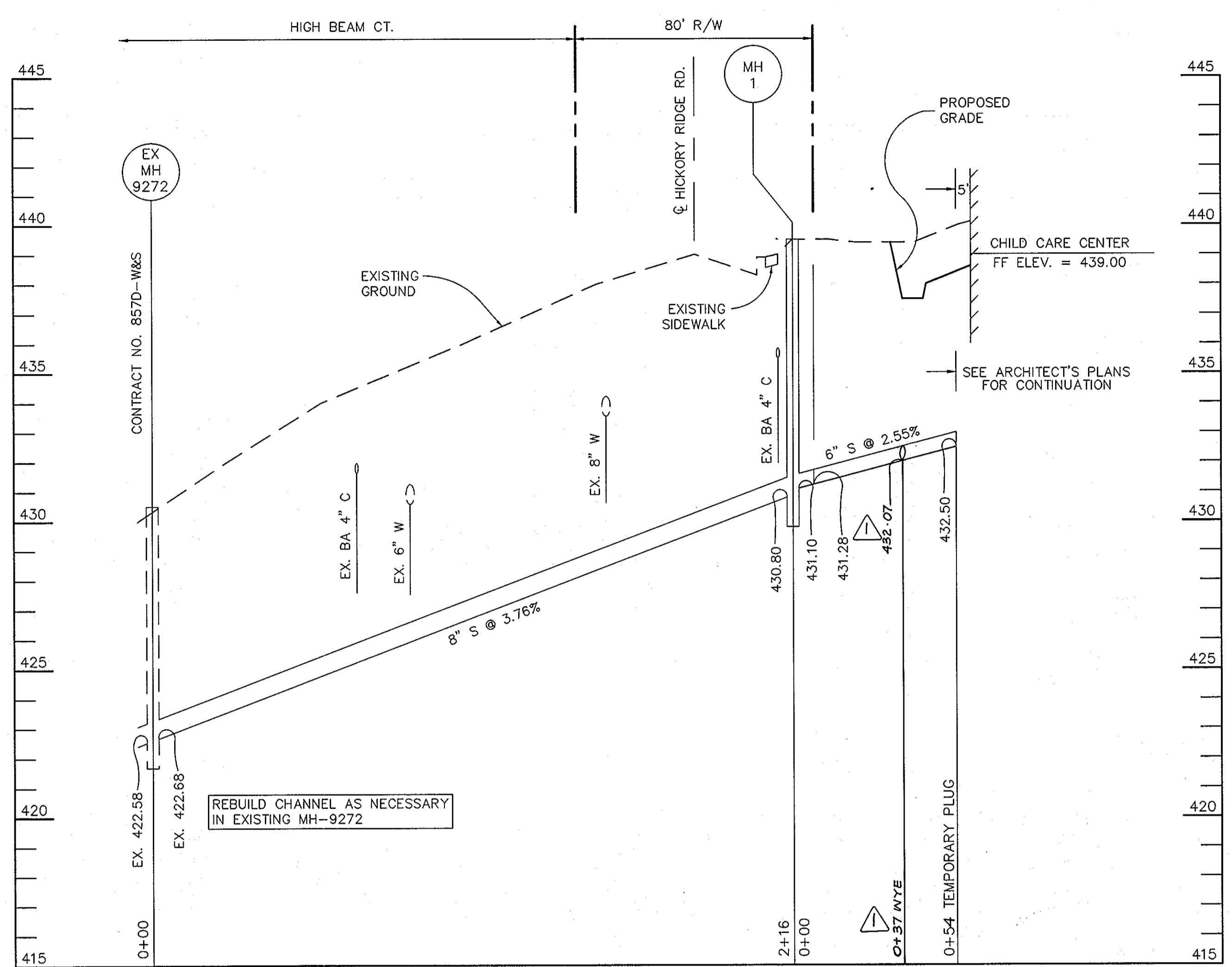


STRUCTURE SCHEDULE LOCATION TABLE

| STRUCTURE | LOCATION | REMARKS |
|-----------|---------------------------|--------------------|
| S-1 | N 562,034.3 E 1,347,531.4 | CENTER OF TOP SLAB |
| S-2 | N 562,047.2 E 1,347,572.1 | CENTER FRONT FACE |
| S-3 | N 562,088.5 E 1,347,525.1 | CENTER FRONT FACE |

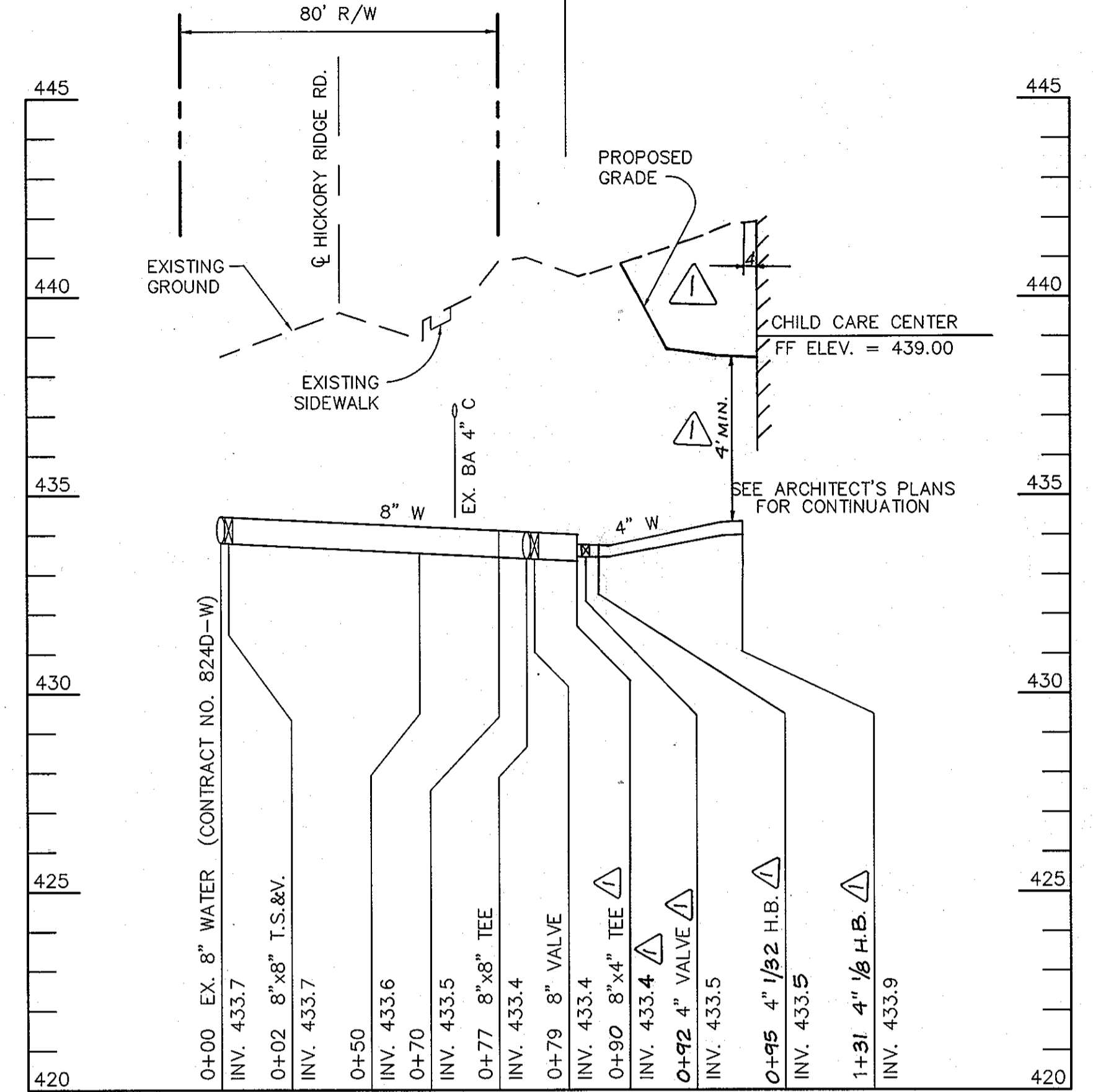
| AS BUILT CERTIFICATE | |
|--|---|
| APPROVED | DATE |
| HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING | |
| <i>David D. Taylor</i> DIRECTOR | 2/1/00 DATE |
| <i>William Dammann</i> CHIEF, DEVELOPMENT ENGINEERING DIVISION | 2/16/00 DATE |
| <i>Clara H. Hester</i> CHIEF, DIVISION OF LAND DEVELOPMENT | 2/7/00 DATE |
| DATE NO. | REVISION |
| | |
| OWNER / DEVELOPER | |
| HOWARD COUNTY COMMUNITY COLLEGE 10901 LITTLE PATUXENT PARKWAY COLUMBIA, MARYLAND 21044-3197 ATTN: MR. JAMES O. LASH 410-772-4296 | |
| PROJECT | |
| HOWARD COMMUNITY COLLEGE CHILD CARE CENTER | |
| AREA | |
| PARCEL 47 ZONED POR TAX MAP NO. 35, 36 BLOCK 6 & 1 5th ELECTION DISTRICT, HOWARD COUNTY, MD. | |
| TITLE | |
| STORMWATER MANAGEMENT PLAN | |
| RIEMER MUEGGE & ASSOCIATES INC. | |
| ENGINEERING • ENVIRONMENTAL SERVICES • PLANNING • SURVEYING 8818 Centre Park Drive, Columbia, MD 21045 tel 410.997.8900 fax 410.997.9282 | |
| | DESIGNED BY: A.A.P. DRAWN BY: J.A.P. PROJECT NO: 99250 DATE: FEBRUARY 24, 2000 SCALE: 1"=30' DRAWING NO. 3 OF 12 |
| ARTHUR E. MUEGGE 48707 | |

TO BE CONSTRUCTED BY
HOWARD CO. BUREAU OF UTILITIES
UNDER AN ADVANCE DEPOSIT ORDER



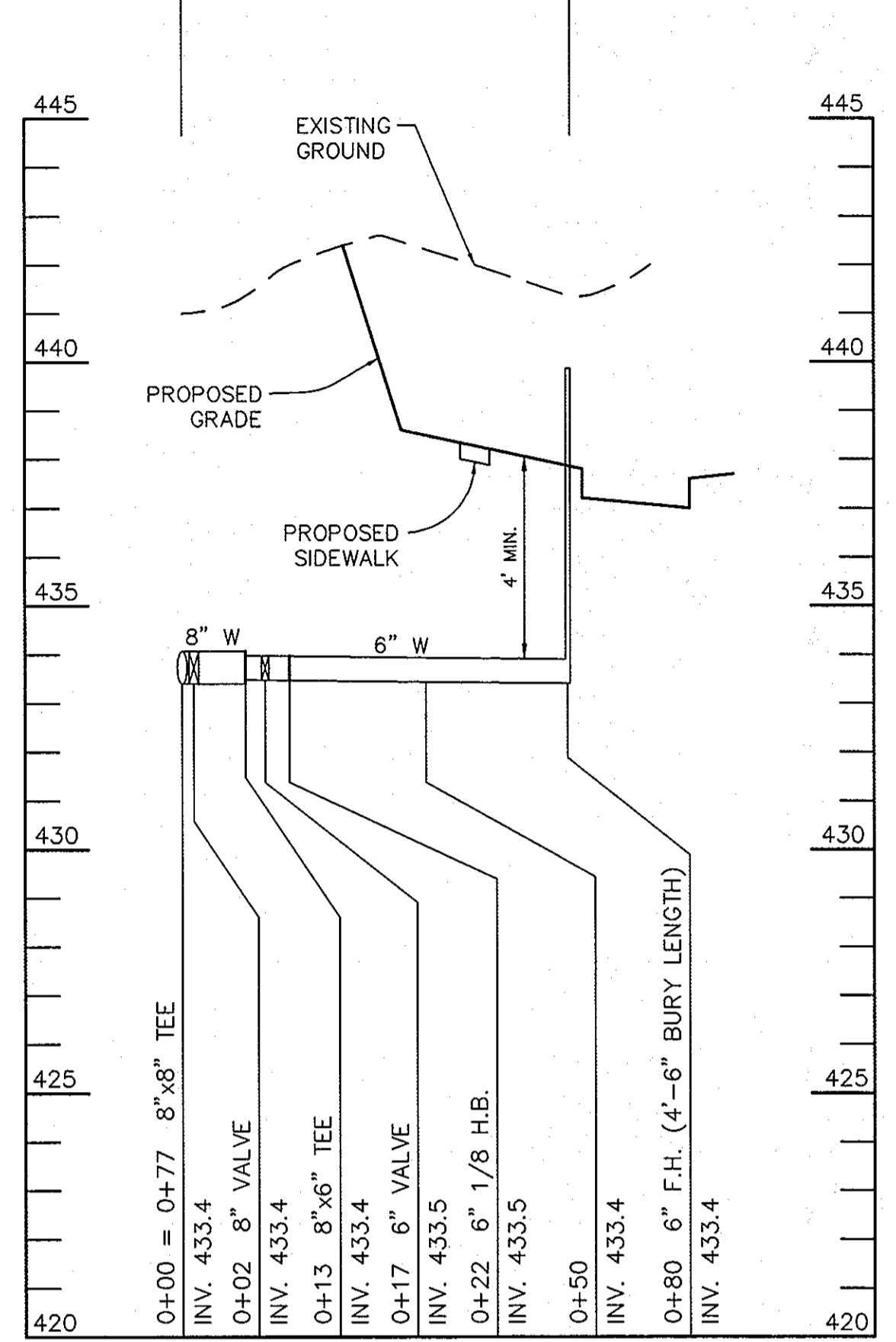
8" SANITARY SEWER PROFILE
SCALE: HOR. 1"=30'
VER. 1"=3'

TO BE CONSTRUCTED BY
HOWARD CO. BUREAU OF UTILITIES
UNDER AN ADVANCE DEPOSIT ORDER



8" WATER SERVICE PROFILE
SCALE: HOR. 1"=30'
VER. 1"=3'

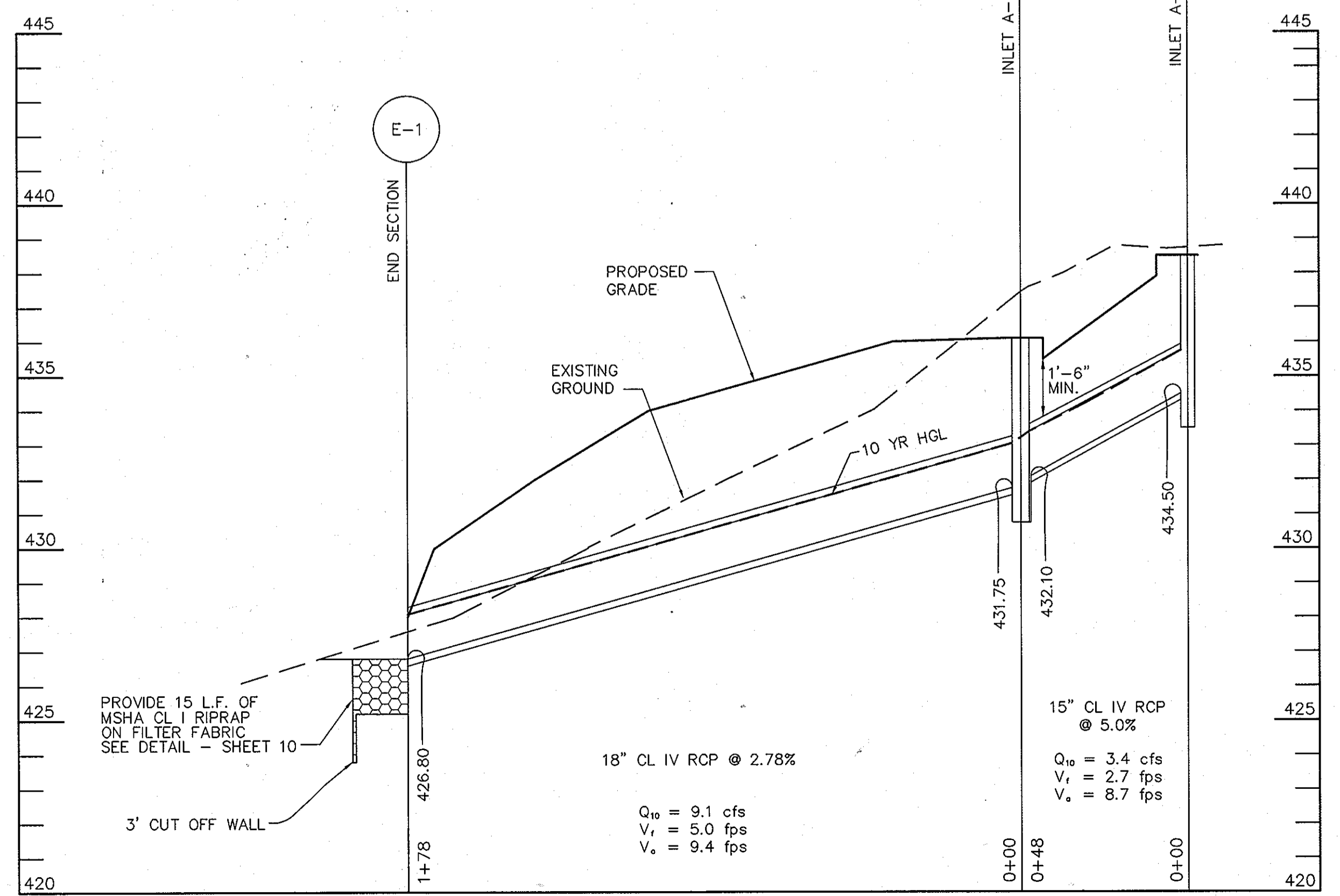
TO BE CONSTRUCTED BY
HOWARD CO. BUREAU OF UTILITIES
UNDER AN ADVANCE DEPOSIT ORDER



6" FIRE HYDRANT LEAD PROFILE
SCALE: HOR. 1"=30'
VER. 1"=3'

| STRUCTURE SCHEDULE | | | | | | | |
|--------------------|--------------|---------|----------|---------|-----------|------------|--------------------|
| STRUCTURE | RIM/TC ELEV. | INV. IN | INV. OUT | NOTE | NORTHING | EASTING | REMARKS |
| MH-1 | 439.50 | 431.10 | 430.80 | G 5.11 | 561936.54 | 1346811.07 | CENTER OF MH |
| E-1 | - | - | 426.80 | SD 5.52 | 562068.81 | 1347101.41 | END OF PIPE |
| I-1 | 436.10 | 432.10 | 431.75 | SD 4.02 | 562078.68 | 1346921.24 | MIDPOINT AT F.O.C. |
| I-2 | 438.50 | - | 434.50 | SD 4.01 | 562128.20 | 1346901.58 | MIDPOINT AT F.O.C. |

| PIPE SCHEDULE | | | |
|---------------|------|--------|--------|
| SIZE | TYPE | CLASS | LENGTH |
| 15" | RCP | IV | 48' |
| 18" | RCP | IV | 178' |
| 8" | PVC | SCH 40 | 216' |
| 6" | PVC | SCH 40 | 55' |
| 8" | DIP | 52 | 110' |
| 6" | DIP | 52 | 67' |
| 4" | DIP | 52 | 29' |



STORM DRAIN PROFILE
SCALE: HOR. 1"=30'
VER. 1"=3'

APPROVED : HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.
Donald A. Leger 2/8/00
 DIRECTOR DATE
John Dammann 3/6/00
 CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE
Cindy Korman 3/7/00
 CHIEF, DIVISION OF LAND DEVELOPMENT DATE

4-12-00 / REV. WATER AND SEWER
 DATE NO. REVISION
 OWNER / DEVELOPER
 HOWARD COUNTY COMMUNITY COLLEGE
 10901 LITTLE PATUXENT PARKWAY
 COLUMBIA, MARYLAND 21044-3197
 ATTN: MR. JAMES O. LASH
 410-772-4296

PROJECT
HOWARD COMMUNITY COLLEGE
 CHILD CARE CENTER
 AREA PARCEL 47 ZONED POR
 TAX MAP NO. 35, 36 BLOCK 6 & 1
 5th ELECTION DISTRICT, HOWARD COUNTY, MD.

TITLE
PROFILES, NOTES AND DETAILS

RIEMER MUEGGE & ASSOCIATES INC.
 ENGINEERING • ENVIRONMENTAL SERVICES • PLANNING • SURVEYING
 8818 Centre Park Drive, Columbia, MD 21046
 tel 410.987.8900 fax 410.987.8282

DATE
 DESIGNED BY : A.A.P.
 DRAWN BY : J.A.P.
 PROJECT NO : 99250
 DATE : FEBRUARY 24, 2000
 SCALE : AS SHOWN
 DRAWING NO. 4 OF 12
 ARTHUR E. MUEGGE #8707

MD-378 STANDARDS AND SPECIFICATIONS

SPECIFICATIONS
These specifications are appropriate to all ponds within the scope of the Standard for Practice MD-378. 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, fence, 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 material. Fill material for the center of the embankment and cut-off trench shall conform to Unified Soil Classification GC, 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 - Areas in 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 down-stream portions of the embankment. The principal spillway must be installed consistently with fill placement and not excavated into 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 tire 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.

Cutoff 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 back fill 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 concrete structure or pipe, unless there is a compacted fill of 24" or greater over the structure or pipe.

PIPE CONDUITS
All pipes shall be circular in cross section.

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

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

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

2. 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 side of the pipe at least 10% of its outside diameter with a minimum thickness of 3 inches, or as shown on the drawings.

3. Laying pipe - Bell and spigot pipe shall be placed with the bell and upstream. Joints shall be made in accordance with recommendations of the manufacturer of the material. After the joints are sealed for the entire length, 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.

4. Backfilling shall conform to Structure Backfill.

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

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

1. Materials - PVC pipe shall be PVC-1120 or PVC-1220 conforming to ASTM D-1785 or ASTM D-2241.

2. Joints and connections to anti-seep collars shall be completely watertight.

3. 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.

4. Backfilling shall conform to Structure Backfill.

5. 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 Standard 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 608, Mix No. 3.

The riprap 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 will 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 414.12.

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 a manner and to the extent that will maintain stability of the excavated slopes and bottom of required excavations and will not cause satisfactory performance of all construction operations. During the piling 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 pumps 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 and concerning pollution abatement will be followed. Construction plans shall detail erosion and sediment control measures to be employed during the construction process.

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

RISER STRUCTURE NOTES:

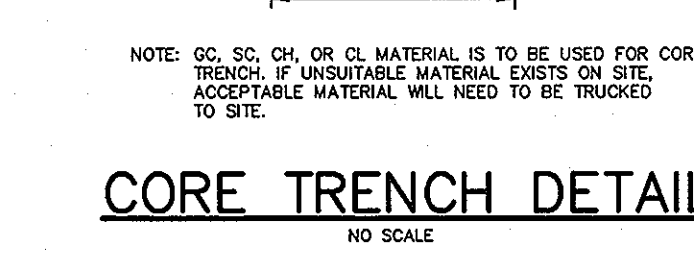
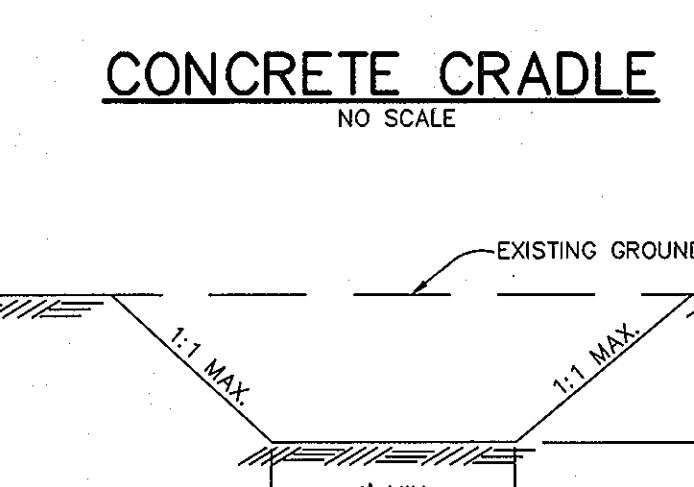
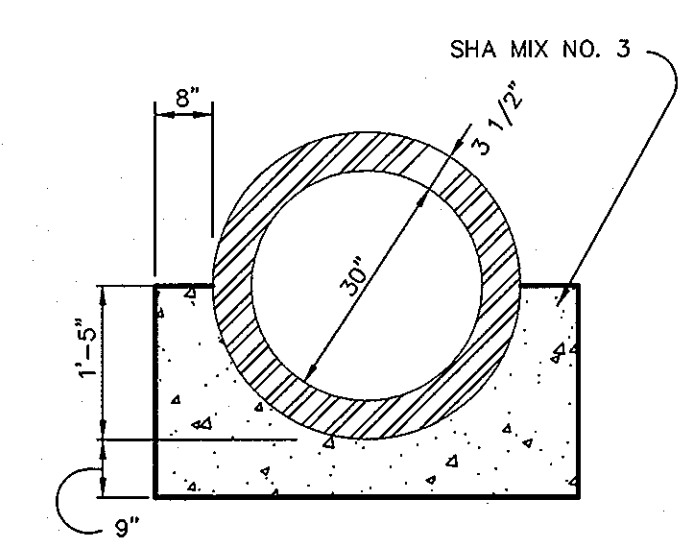
- RISER TO BE PREFABRICATED. SHOP DRAWINGS FOR THIS PRECAST CONCRETE STRUCTURE SHALL MEET THE MINIMUM ASTM REQUIREMENTS FOR PRECAST STRUCTURES. A SHOP DRAWING SHALL BE SUBMITTED TO THE ENGINEER PRIOR TO FABRICATION AND SHALL BE SIGNED AND SEALED BY A MARYLAND REGISTERED PROFESSIONAL ENGINEER.
- CONCRETE SHALL BE MSHA MIX NO. 3 (FC=9,500 PSI MINIMUM)
- REFER TO HOWARD COUNTY STD. 6-5-21 FOR MANHOLE STEP DETAILS.
- RISER JOINT(S) TO BE FASTENED IF RISER IS FABRICATED IN SECTIONS. SEE DETAIL THIS SHEET. THE RISER JOINTS SHALL BE WATERTIGHT.
- A TWO FOOT STUD OF THE 30" RCP SHALL BE PRECAST WITH THE RISER. ALL PIPE CONNECTIONS SHALL PROVIDE RUBBER GASKETS FOR WATERTIGHTNESS.
- RISER SHALL BE PLACED ON A FIRMLY COMPACTED SUBGRADE APPROVED BY A GEOTECHNICAL ENGINEER.

REMOVABLE TRASH RACK NOTES:

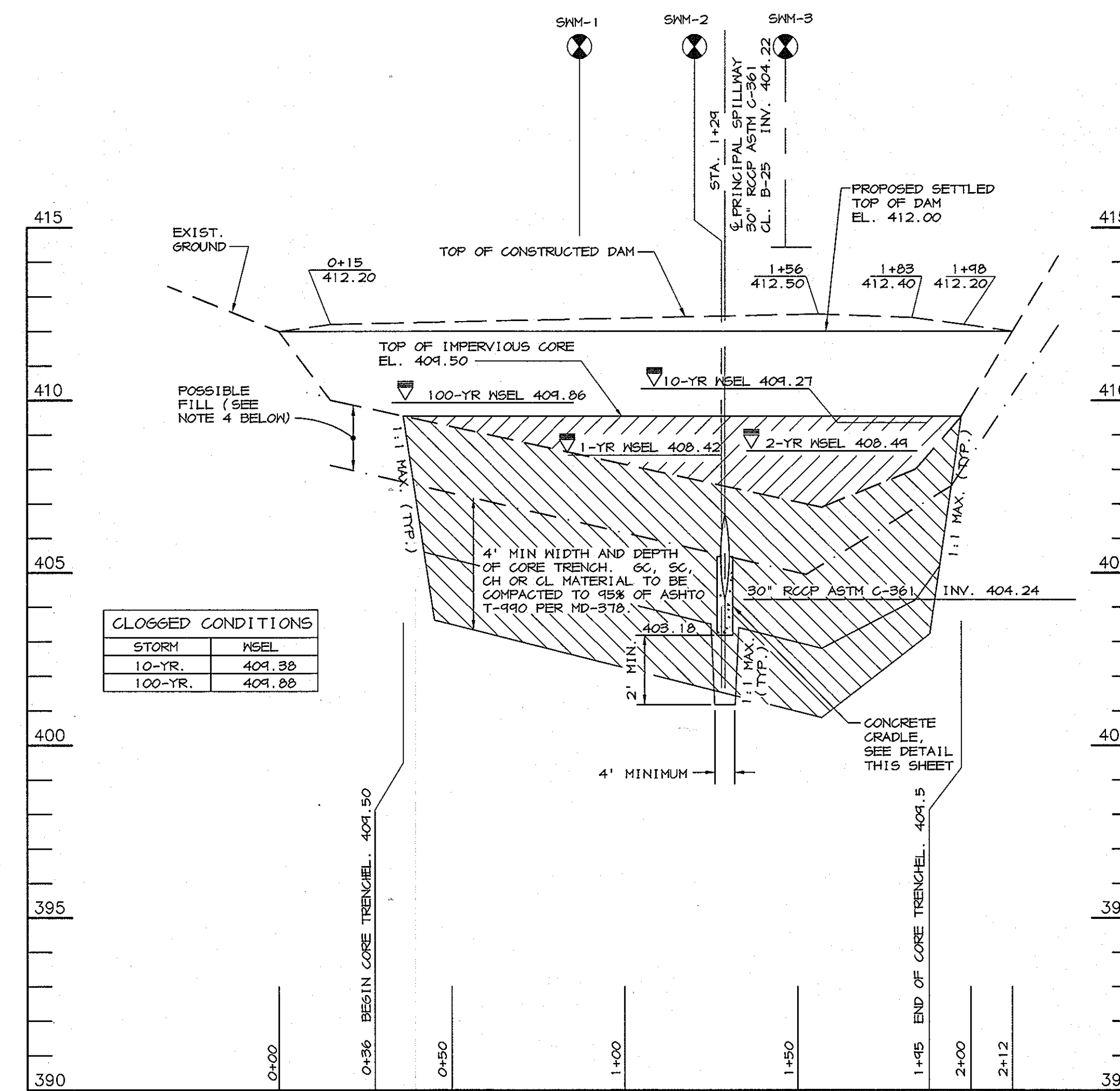
- STEEL TO CONFORM TO ASTM A-36. #5 BARS TO BE SMOOTH. SEE DETAIL FOR SPACING.
- ALL REBAR TO BE HELPED AT ALL INTERSECTIONS.
- ALL BENDS TO BE 2" RADIUS. 2" x 1/8" STEEL PLATE AND 1/2" DIAMETER ANCHOR BOLTS TO BE USED FOR TRASH RACK FRAME.
- GALVANIZE TRASH RACK AFTER FABRICATION AND PAINT BATTLESHIP GRAY.

TOP SLAB NOTES:

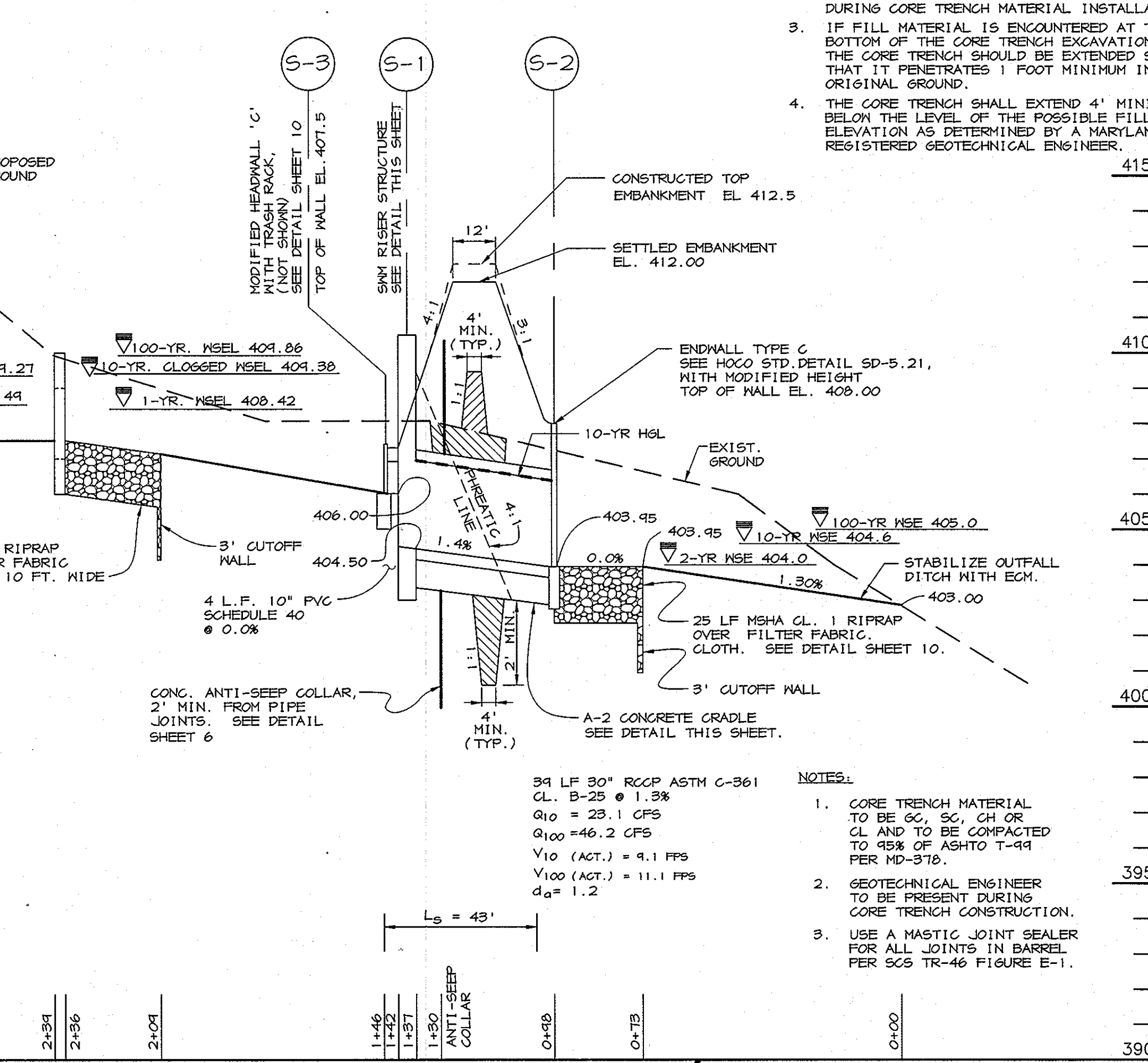
- TOP SLAB TO BE SEPARATE FROM RISER STRUCTURE.
- REFER TO HOWARD COUNTY STD. 6-5-52 FOR MANHOLE FRAME & COVER.
- CONCRETE TO BE MIX NO. 3
- SLAB REINFORCING SHALL HAVE 2" MINIMUM COVER.



THE SITE SHOULD BE STRIPPED OF TOPSOIL AND ANY OTHER UNSUITABLE MATERIALS FROM THE EMBANKMENT OR STRUCTURE AREA IN ACCORDANCE WITH SOIL CONSERVATION GUIDELINES. AFTER STRIPPING OPERATIONS HAVE BEEN COMPLETED, THE EXPOSED SUBGRADE MATERIALS SHOULD BE PROOFGOLLED WITH A LOADED DUMP TRUCK OR SIMILAR EQUIPMENT IN THE PRESENCE OF A GEOTECHNICAL ENGINEER OR HIS REPRESENTATIVE. FOR AREAS THAT ARE NOT ACCESSIBLE TO A DUMP TRUCK, THE ENGINEER OR HIS REPRESENTATIVE UTILIZING A DYNAMIC CONE PENETROMETER, ANY EXCESSIVELY SOFT OR LOOSE MATERIALS IDENTIFIED BY PROOFGOLLING OR PENETROMETER TESTING SHOULD BE EXCAVATED TO SUITABLE FIRM SOIL, AND THEN GRADES RE-ESTABLISHED BY BACKFILLING WITH SUITABLE SOIL. A REPRESENTATIVE OF A REGISTERED GEOTECHNICAL ENGINEER MUST BE PRESENT TO MONITOR PLACEMENT AND COMPACTION OF FILL FOR THE EMBANKMENT AND CUT-OFF TRENCH. IN ACCORDANCE WITH MARYLAND SOIL CONSERVATION SPECIFICATION 378 SOILS CONSIDERED SUITABLE FOR THE CENTER OF EMBANKMENT AND CUT-OFF TRENCH SHALL CONFORM TO THE UNIFIED SOIL CLASSIFICATION GC, SC, CH, OR CL. ALL FILL MATERIALS MUST BE PLACED AND COMPACTED IN ACCORDANCE WITH MDSCG 378 SPECIFICATIONS.



PROFILE ALONG EMBANKMENT CENTERLINE
SCALE: HOR. 1"=30'
VER. 1"=3'



PRINCIPAL SPILLWAY PROFILE
SCALE: HOR. 1"=30'
VER. 1"=3'

BY THE DEVELOPER :
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 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.

DEVELOPER: *[Signature]* DATE: 2/25/00

BY THE ENGINEER :
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.

ENGINEER: *[Signature]* DATE: 2-25-00

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] DATE: 3/2/00
NATURAL RESOURCES CONSERVATION SERVICE

THESE PLANS FOR SMALL POND CONSTRUCTION, SOIL EROSION AND SEDIMENT CONTROL MEET THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.

[Signature] DATE: 3/2/00
HOWARD SOIL CONSERVATION DISTRICT

AS-BUILT CERTIFICATE

DATE: _____
APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.

[Signature] DATE: 3/2/00
DIRECTOR

[Signature] DATE: 3/2/00
CHIEF, DEVELOPMENT ENGINEERING DIVISION

[Signature] DATE: 3/2/00
CHIEF, DIVISION OF LAND DEVELOPMENT

DATE NO. _____ REVISION _____

OWNER / DEVELOPER
HOWARD COUNTY COMMUNITY COLLEGE
10901 LITTLE PATUXENT PARKWAY
COLUMBIA, MARYLAND 21044-3197
ATTN: MR. JAMES O. LASH
410-772-4296

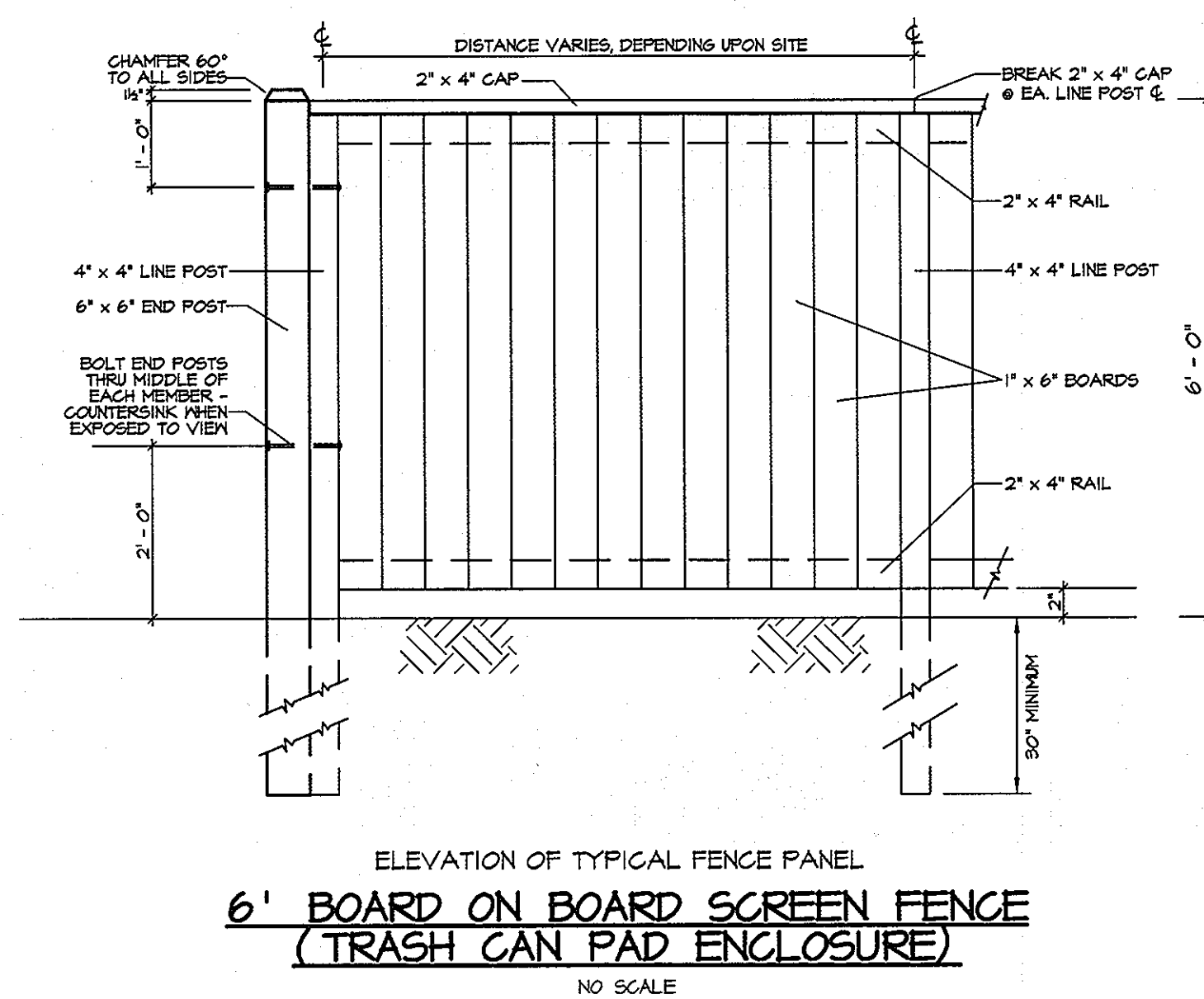
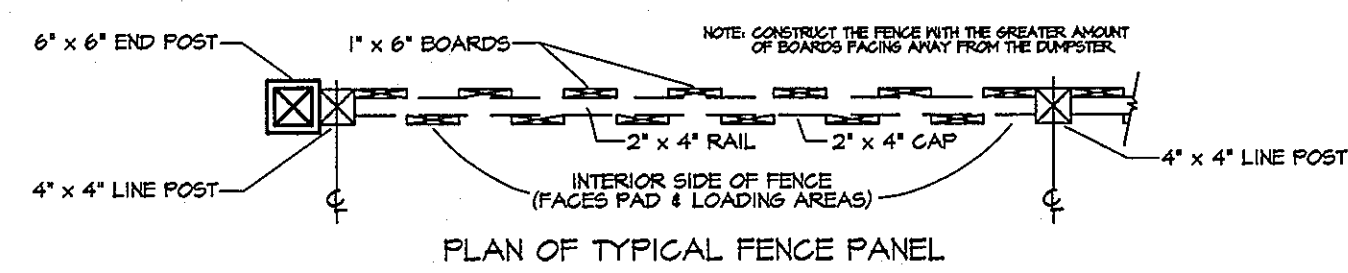
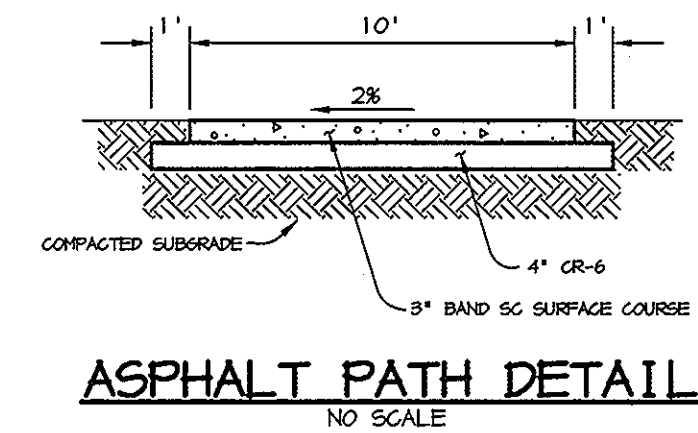
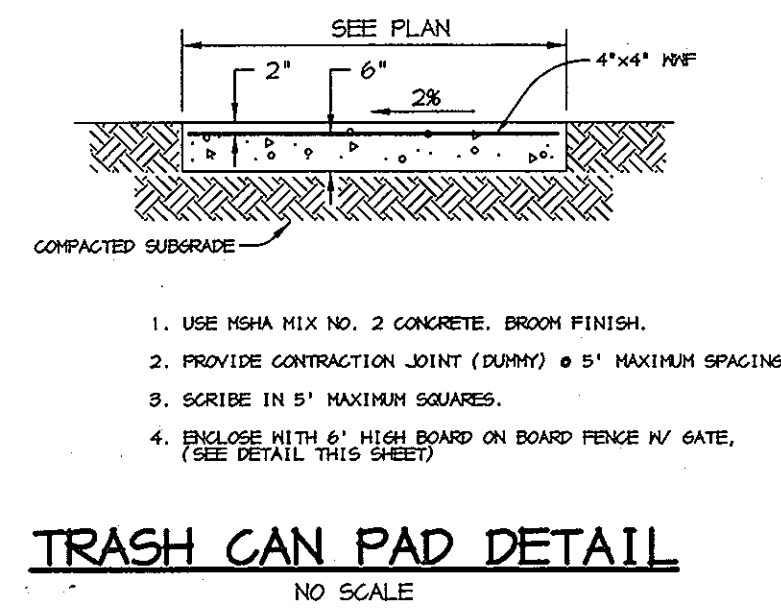
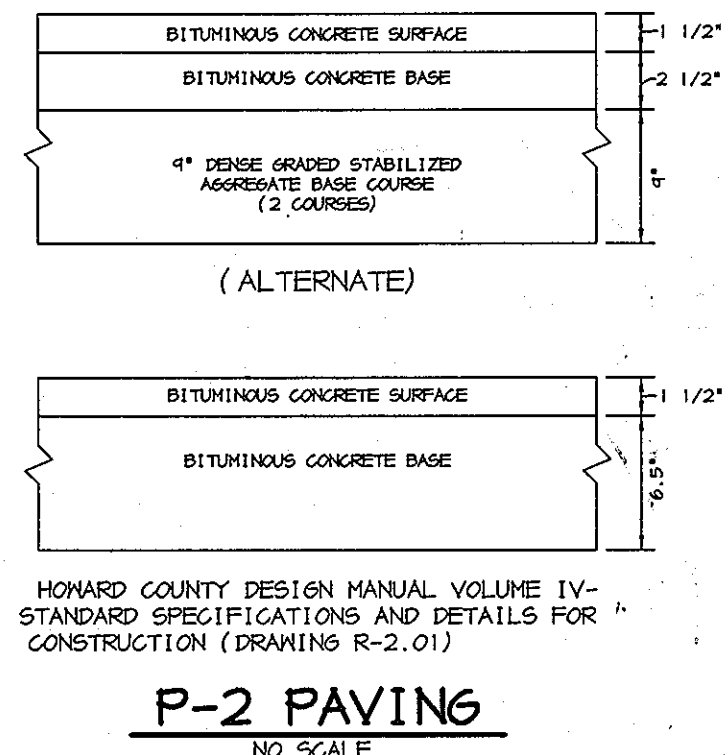
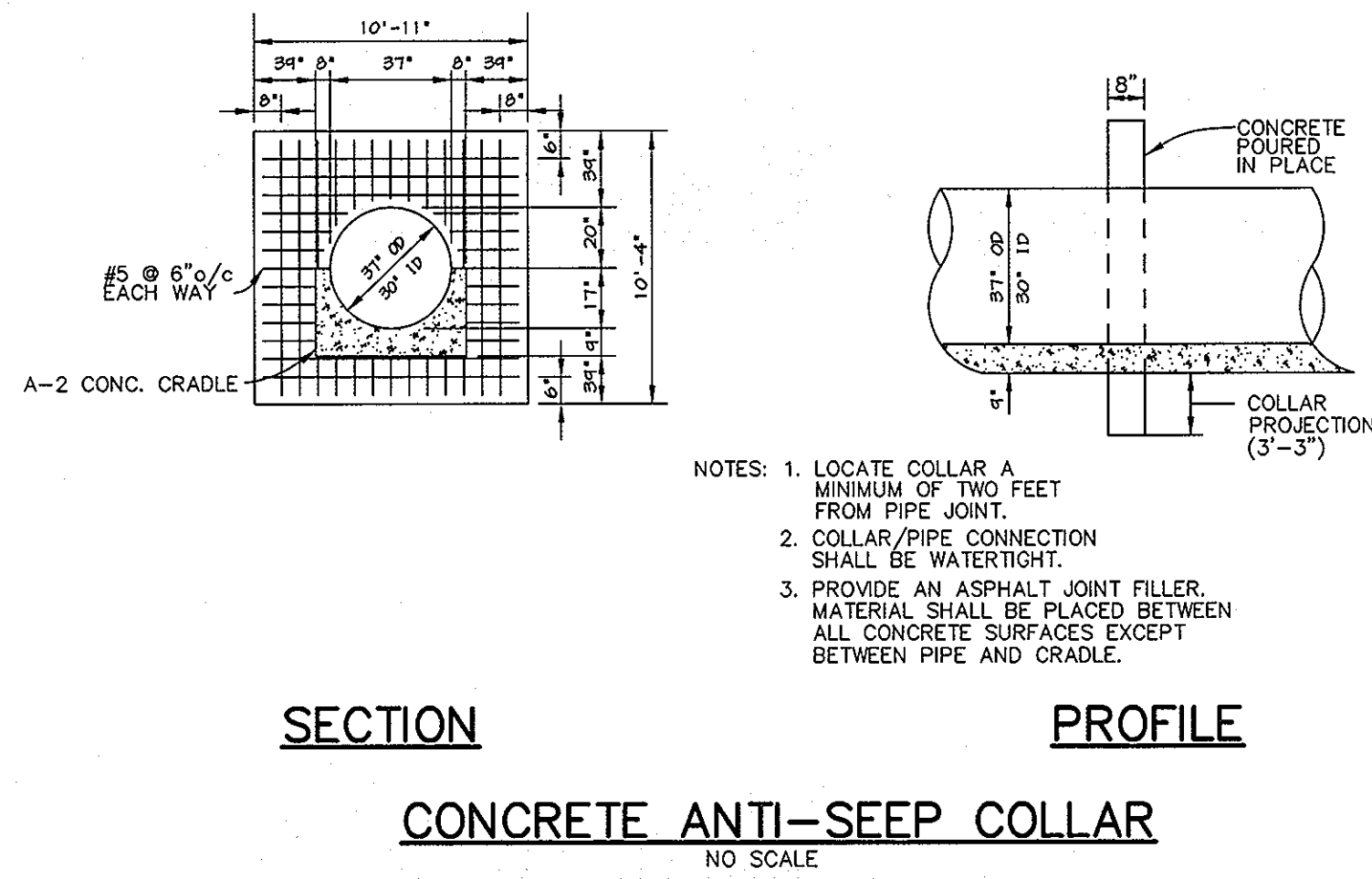
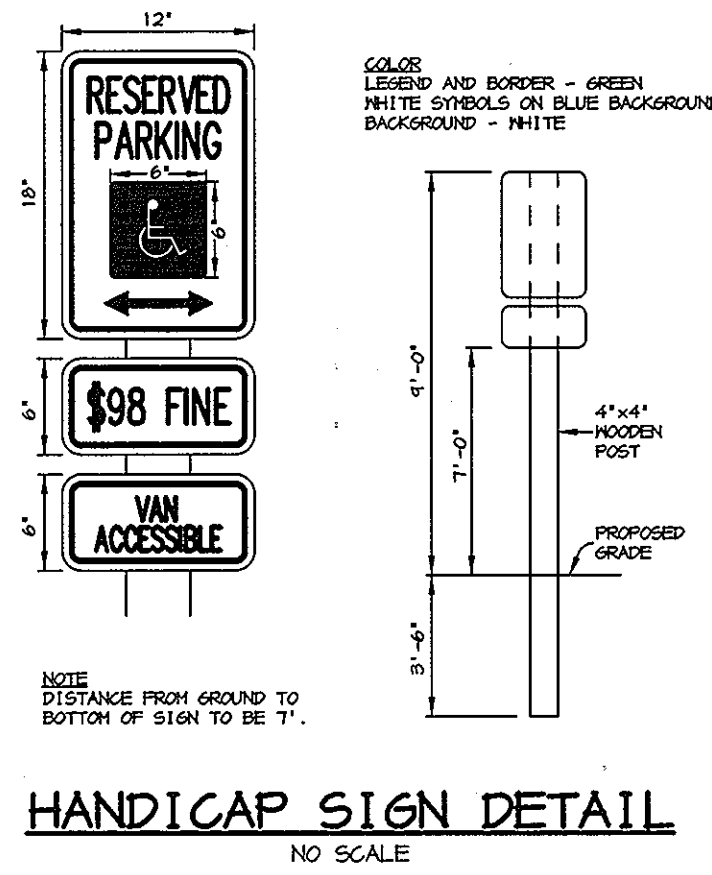
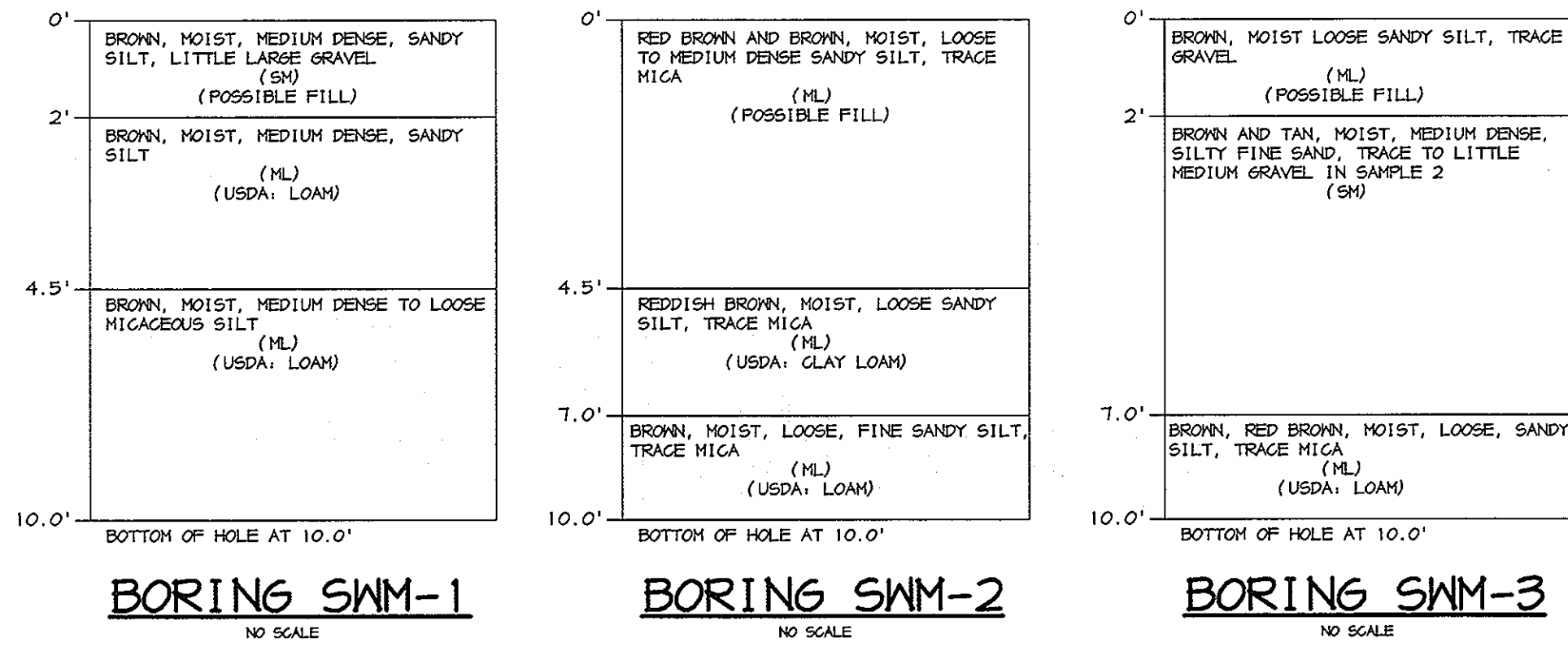
PROJECT
HOWARD COMMUNITY COLLEGE
CHILD CARE CENTER

AREA
PARCEL 47 ZONED FOR
TAX MAP NO. 35, 36 BLOCK 6 & 1
5th ELECTION DISTRICT, HOWARD COUNTY, MD.

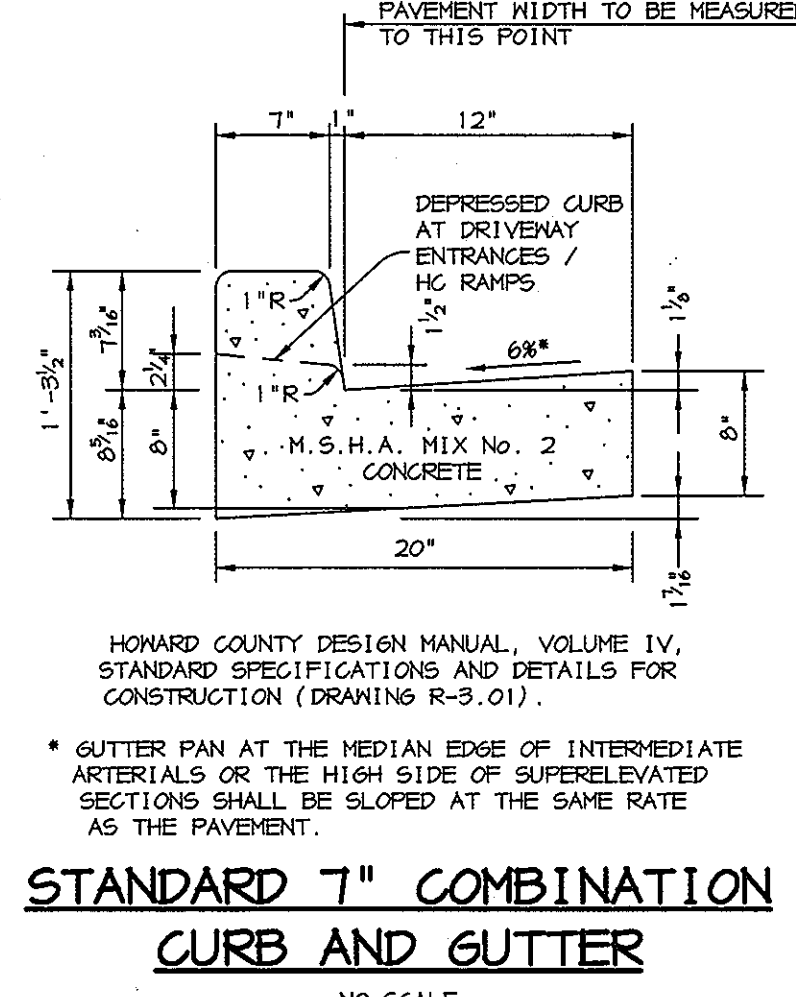
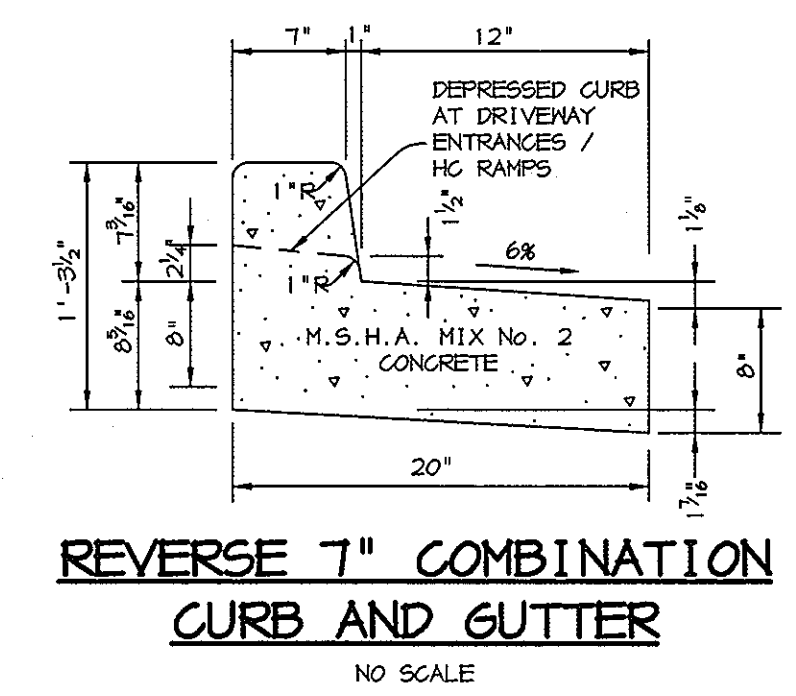
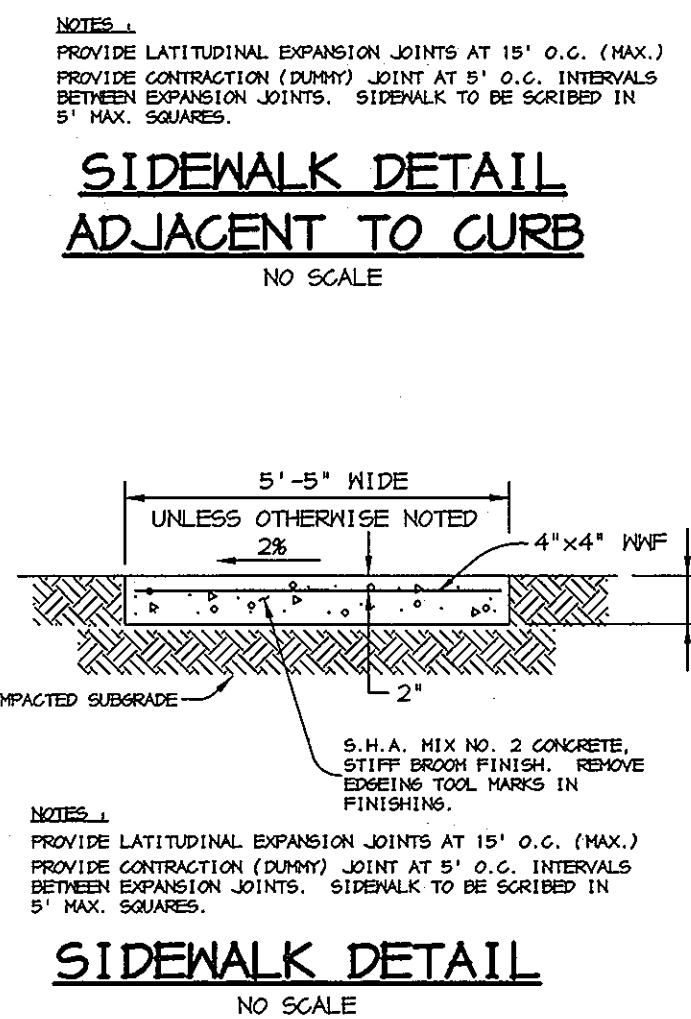
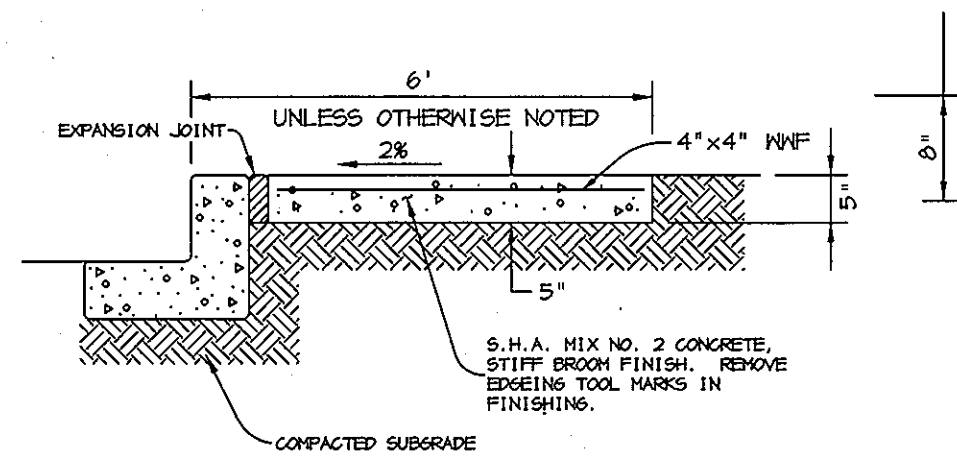
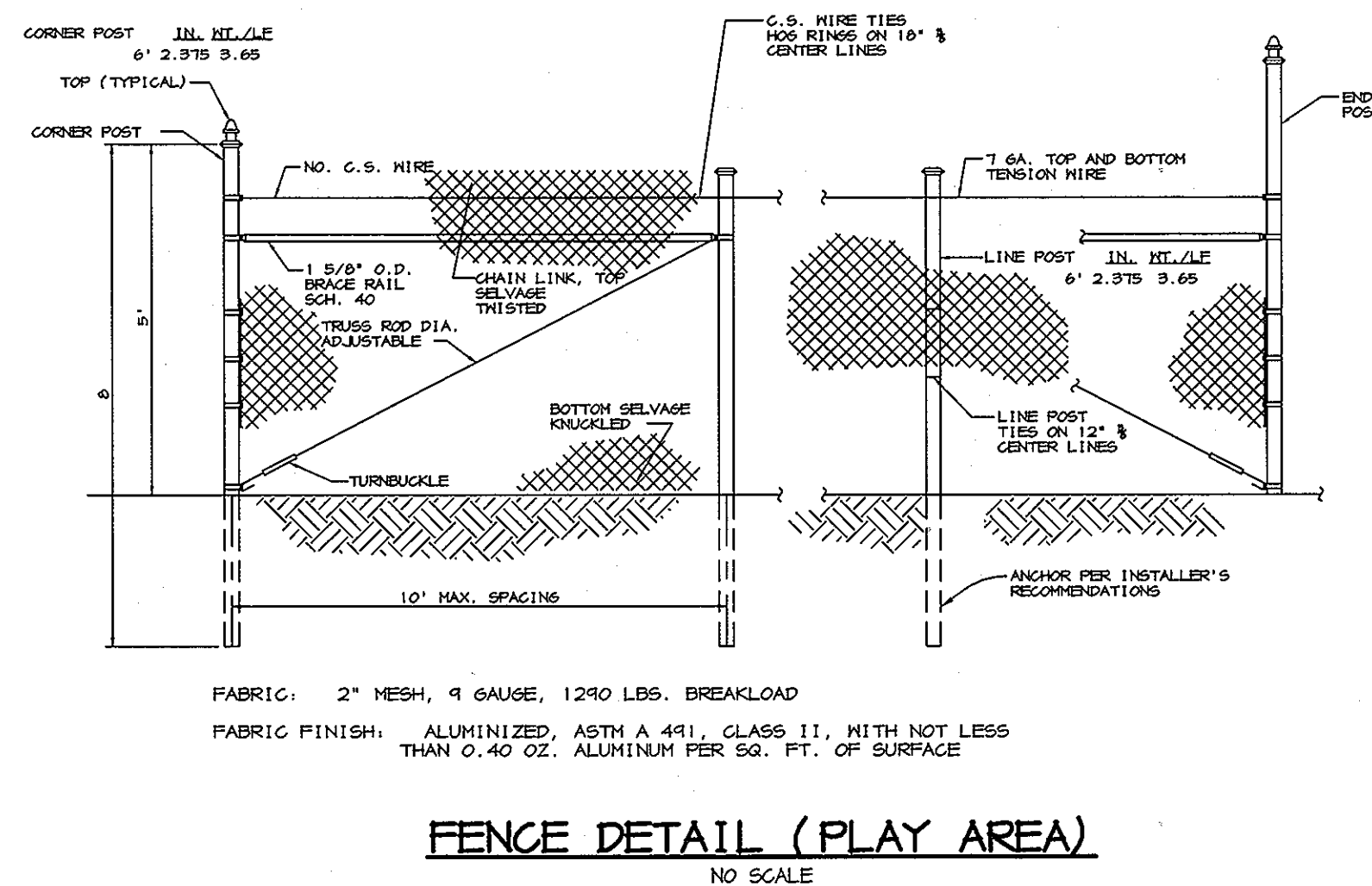
S.W.M. NOTES AND DETAILS

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

DATE: _____
DESIGNED BY: A.A.P./A.C.R.
DRAWN BY: J.A.P.
PROJECT NO.: 99250
DATE: FEBRUARY 24, 2000
SCALE: AS SHOWN
DRAWING NO. 5 OF 12
ARTHUR E. MUEGGE #8707
SDP-00-56



PAVING NOTE
 1. SUBGRADE SHALL BE PROOF ROLLED AND APPROVED BY A GEOTECHNICAL ENGINEER PRIOR TO PAVING.
 2. SEE GEOTECHNICAL REPORT FOR ADDITIONAL INFORMATION.



APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.

DIRECTOR: *Dan L. Lash* 5/4/00 DATE

CHIEF, DEVELOPMENT ENGINEERING DIVISION: *Chris Hamill* 3/16/00 DATE

CHIEF, DIVISION OF LAND DEVELOPMENT: *Chris Hamill* 2/7/00 DATE

DATE NO. REVISION

OWNER / DEVELOPER: HOWARD COUNTY COMMUNITY COLLEGE, 10901 LITTLE PATUXENT PARKWAY, COLUMBIA, MARYLAND 21044-3197, ATTN: MR. JAMES O. LASH, 410-772-4296

PROJECT: HOWARD COMMUNITY COLLEGE CHILD CARE CENTER

AREA: PARCEL 47 ZONED POR, TAX MAP NO. 35, 36, BLOCK 6 & 1, 5th ELECTION DISTRICT, HOWARD COUNTY, MD.

TITLE: SITE DETAILS

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

DATE: FEBRUARY 24, 2000

DESIGNED BY: A.A.P.

DRAWN BY: J.A.P.

PROJECT NO.: 99250

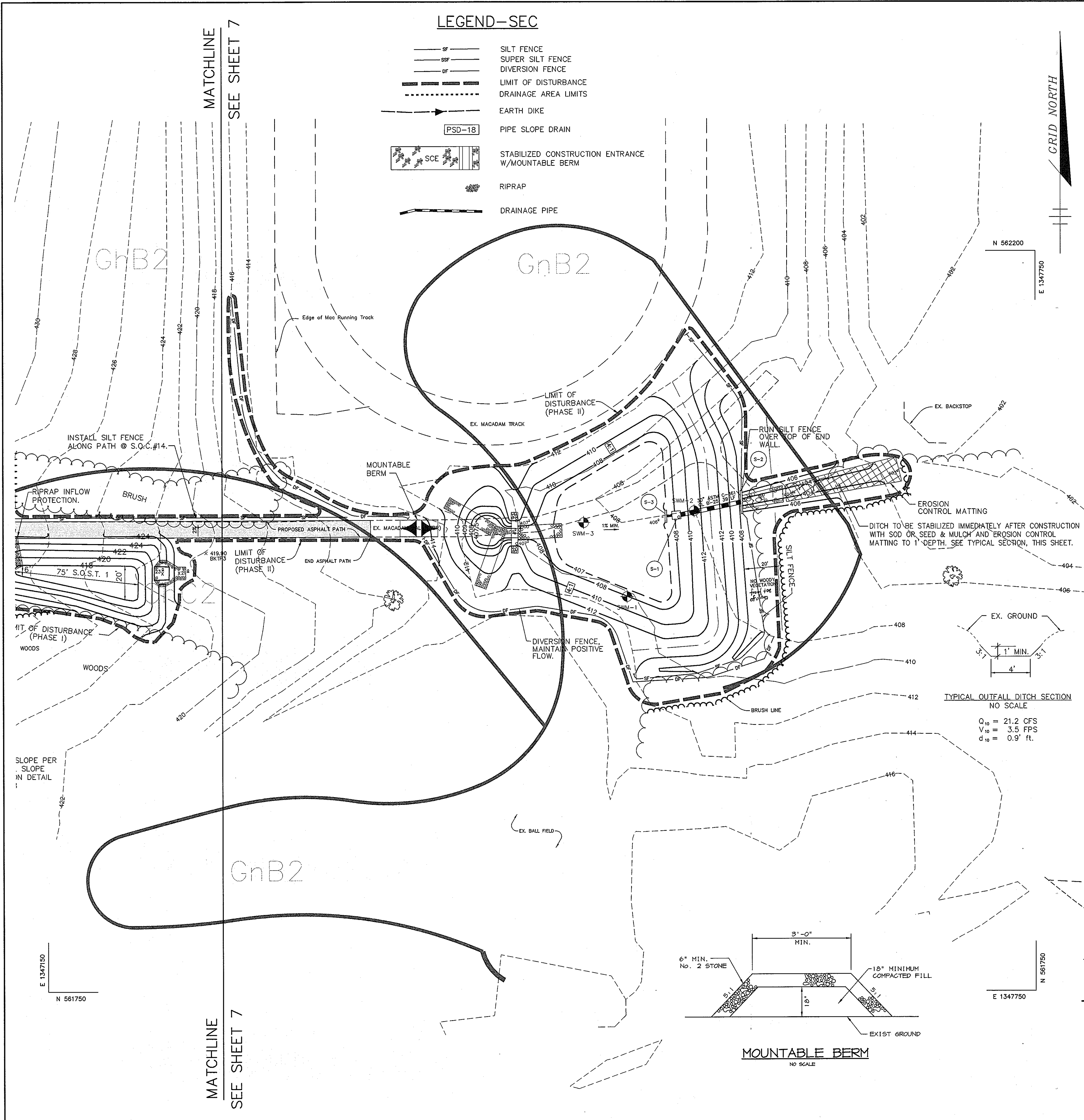
SCALE: AS SHOWN

DRAWING NO. 6 OF 12

ARTHUR E. MUEGGE #8707

LEGEND-SEC

- SILT FENCE
- SUPER SILT FENCE
- DIVERSION FENCE
- LIMIT OF DISTURBANCE
- DRAINAGE AREA LIMITS
- EARTH DIKE
- PIPE SLOPE DRAIN
- STABILIZED CONSTRUCTION ENTRANCE W/MOUNTABLE BERM
- RIPRAP
- DRAINAGE PIPE



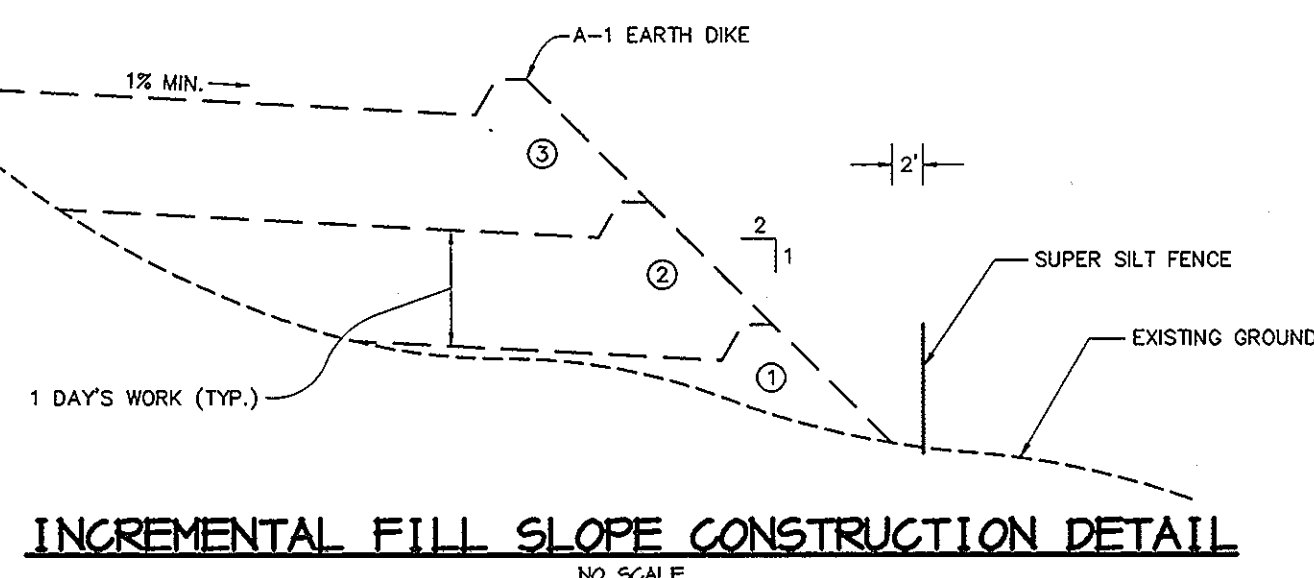
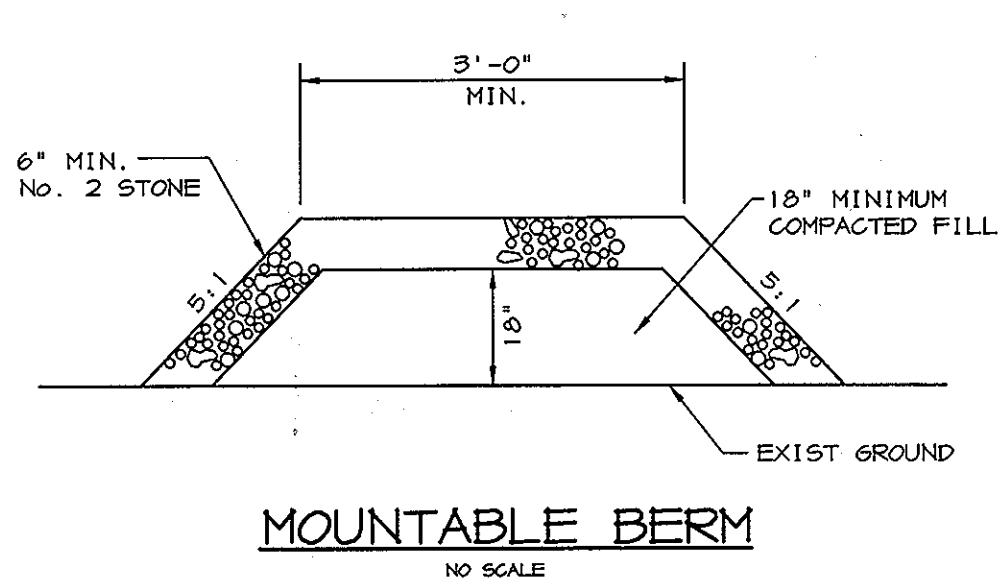
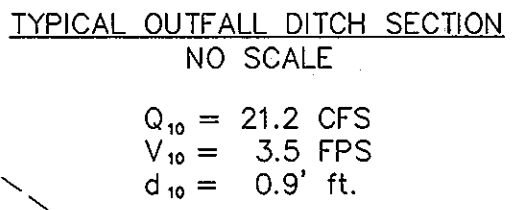
STANDARD SEDIMENT CONTROL NOTES

1. A MINIMUM OF 48 HOURS NOTICE MUST BE GIVEN TO THE HOWARD COUNTY DEPARTMENT OF INSPECTIONS, LICENSES AND PERMITS, SEDIMENT CONTROL DIVISION PRIOR TO THE START OF ANY CONSTRUCTION (313-1055).
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 1984 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL AND REVISIONS THEREOF.
3. FOLLOWING INITIAL SOIL DISTURBANCE OR RE-DISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN A) 7 CALENDAR DAYS FOR ALL PERIMETER SEDIMENT CONTROL STRUCTURES, DIKES, PERIMETER SLOPES, AND ALL SLOPES STEEPER THAN 3:1, B) 14 DAYS AS TO ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE.
4. ALL TRAPS/BASINS SHOWN MUST BE FENCED AND WARNING SIGNS POSTED AROUND THE PERIMETER IN ACCORDANCE WITH VOL. 1, CHAPTER 7, OF THE HOWARD COUNTY DESIGN MANUAL, STORM DRAINAGE.
5. ALL DISTURBED AREAS MUST BE STABILIZED WITHIN THE TIME PERIOD SPECIFIED ABOVE IN ACCORDANCE WITH THE 1984 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL FOR PERMANENT SEEDING, SOD, TEMPORARY SEEDING, AND MULCHING (SEC. 6.) TEMPORARY STABILIZATION WITH MULCH ALONE SHALL ONLY BE DONE WHEN RECOMMENDED SEEDING DATES DO NOT ALLOW FOR PROPER GERMINATION AND ESTABLISHED OF GRASSES.
6. 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.
7. SITE ANALYSIS:

| | |
|------------------------------------|---------------------------------|
| TOTAL AREA OF SITE | 2.3 ACRES |
| AREA DISTURBED | 2.3 ACRES |
| AREA TO BE ROOFED OR PAVED | 0.6 ACRES |
| AREA TO BE VEGETATIVELY STABILIZED | 1.7 ACRES |
| TOTAL CUT | 1,300 CU. YARDS |
| TOTAL FILL | 4,800 CU. YARDS |
| OFFSITE WASTE/BORROW AREA LOCATION | SITE WITH ACTIVE GRADING PERMIT |
8. ANY SEDIMENT CONTROL PRACTICE WHICH IS DISTURBED BY GRADING ACTIVITY FOR PLACEMENT OF UTILITIES MUST BE REPAIRED ON THE SAME DAY OF DISTURBANCE.
9. ADDITIONAL SEDIMENT CONTROLS MUST BE PROVIDED, IF DEEMED NECESSARY BY THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR.
10. 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.
11. TRENCHES FOR THE CONSTRUCTION OF UTILITIES IS LIMITED TO THREE PIPE LENGTHS OR THAT WHICH SHALL BE BACK-FILLED AND STABILIZED WITHIN ONE WORKING DAY, WHICHEVER IS SHORTER.
12. SITE GRADING WILL BEGIN ONLY AFTER ALL PERIMETER SEDIMENT CONTROL MEASURES HAVE BEEN INSTALLED AND ARE IN A FUNCTIONING CONDITION.
13. SEDIMENT WILL BE REMOVED FROM TRAPS WHEN ITS DEPTH REACHES CLEAN OUT ELEVATION SHOWN ON THE PLANS.
14. CUT AND FILL QUANTITIES PROVIDED UNDER SITE ANALYSIS DO NOT REPRESENT BID QUANTITIES. THESE QUANTITIES DO NOT DISTINGUISH BETWEEN TOPSOIL, STRUCTURAL FILL OR EMBANKMENT MATERIAL, NOR DO THEY REFLECT CONSIDERATION OF UNDERCUTTING OR REMOVAL OF UNSUITABLE MATERIAL. THE CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH SITE CONDITIONS WHICH MAY AFFECT THE WORK.

SEQUENCE OF CONSTRUCTION

- PHASE I - CHILD CARE CENTER (BUILDING AREA ONLY)**
1. Obtain the grading permit and other permits as necessary prior to beginning construction. All construction shall follow the latest edition of the MD Standards and Specifications for Sediment & Erosion Control. (1 day)
 2. Clear and grub for perimeter control installation (SOST, SCE, A-2 Earth Dike, Super Silt Fence and Silt Fence). (1 day)
 3. Install perimeter controls. (2 days)
 4. Block entrance to 15" RCP in existing inlet 1-6 and install new 15" flexible pipe and riprap pad. (2 days)
 5. Begin site grading. Fill building pad and rear play area in accordance with the incremental fill slope construction detail. Note: Maintain positive slope on A-1 earth dike to the SOST/slope drain. (3 weeks)
 6. After rear building area is within 2 ft of final grade, construct building. (6 months)
 7. Concurrent with line 5, above, construct utilities, remove existing 15" storm drain and construct storm drain system. (3 weeks)
 8. Install sidewalks and curb & gutter except along the existing parking and fillets connecting to the existing parking lot curb (do not disturb existing curb; maintain storm flow from existing parking to existing inlet 1-6). (2 weeks)
 9. During a dry forecast, remove existing inlet 1-6, 18" flexible pipe, complete curb & gutter and sidewalk installation. Immediately stabilize areas outside earth dike. (3 days)
 10. Install paving, except path. (1 week)
 11. Complete fine grading, install landscaping, signage/parking lot striping and fencing. (1 week)
 12. Complete full/permanent stabilization.
 13. With permission of the Sediment Control Inspector, remove the SEC controls including the SOST. Note: The SOST shall be pumped dry and cleaned out prior to backfilling. The trap shall then be backfilled with good soil in 8" lifts at 95% compaction (ASTM T-99). (1 week)
- PHASE II - STORMWATER MANAGEMENT POND**
14. Construct path base (CR-6) only. Only construct as much path that can be stabilized that same day. Place silt fence on downhill side of path.
 15. Clear and grub for perimeter control installation (Diversion Fence and Silt Fence). (3 days)
 16. Install perimeter controls. (3 days)
 17. Construct SWM pond, concrete riser, barrel, endwall and outfall ditch. Note: After the endwall is constructed, run silt fence overtop it. Outfall ditch shall be constructed in 1 day and stabilized immediately with sod, or seed, mulch and ECM. (3 weeks)
 18. Pave path.
 19. Stabilize entire pond w/full permanent stabilization.
 20. With permission from the Sediment Control Inspector, remove SEC controls and stabilize those areas disturbed by this process. (1day)



NOTES:

1. CONSTRUCT EARTH FILL IN INCREMENTAL LAYERS AND ACCORDING TO SPECIFICATIONS.
2. AT THE END OF EACH WORKING DAY, CONSTRUCT AN EARTH DIKE AT THE TOP OF SLOPE. THE EARTH DIKE SHALL MAINTAIN 0.5% MINIMUM, 1% PREFERRED SLOPE TO THE PIPE SLOPE DRAIN.
3. CONTINUE PLACING FILL UNTIL WITHIN 1'-2" OF FINAL GRADE. LEAVE AN EARTH DIKE AT THE TOP OF THE SLOPE UNTIL SITE IS READY FOR FINAL STABILIZATION.

BY THE DEVELOPER:

[Signature] 2/25/00
DEVELOPER DATE

BY THE ENGINEER:

[Signature] 2-24-00
ENGINEER 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.

[Signature] 3/2/00
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.

[Signature] 3/2/00
HOWARD SOIL CONSERVATION DISTRICT DATE

AS BUILT CERTIFICATE

DATE

APPROVED BY: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.

DIRECTOR DATE
[Signature] 3/2/00

CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE
[Signature] 3/2/00

CHIEF, DIVISION OF LAND DEVELOPMENT DATE
[Signature] 3/2/00

OWNER / DEVELOPER

HOWARD COUNTY COMMUNITY COLLEGE
10901 LITTLE PATUXENT PARKWAY
COLUMBIA, MARYLAND 21044-3197
ATTN: MR. JAMES O. LASH
410-772-4296

PROJECT

HOWARD COUNTY COMMUNITY COLLEGE
CHILD CARE CENTER

AREA PARCEL 47 ZONED POR
TAX MAP NO. 35, 36 BLOCK 6 & 1
5th ELECTION DISTRICT, HOWARD COUNTY, MD.

TITLE

SEDIMENT AND EROSION CONTROL PLAN

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

DATE

DESIGNED BY: A.A.P.

DRAWN BY: J.A.P.

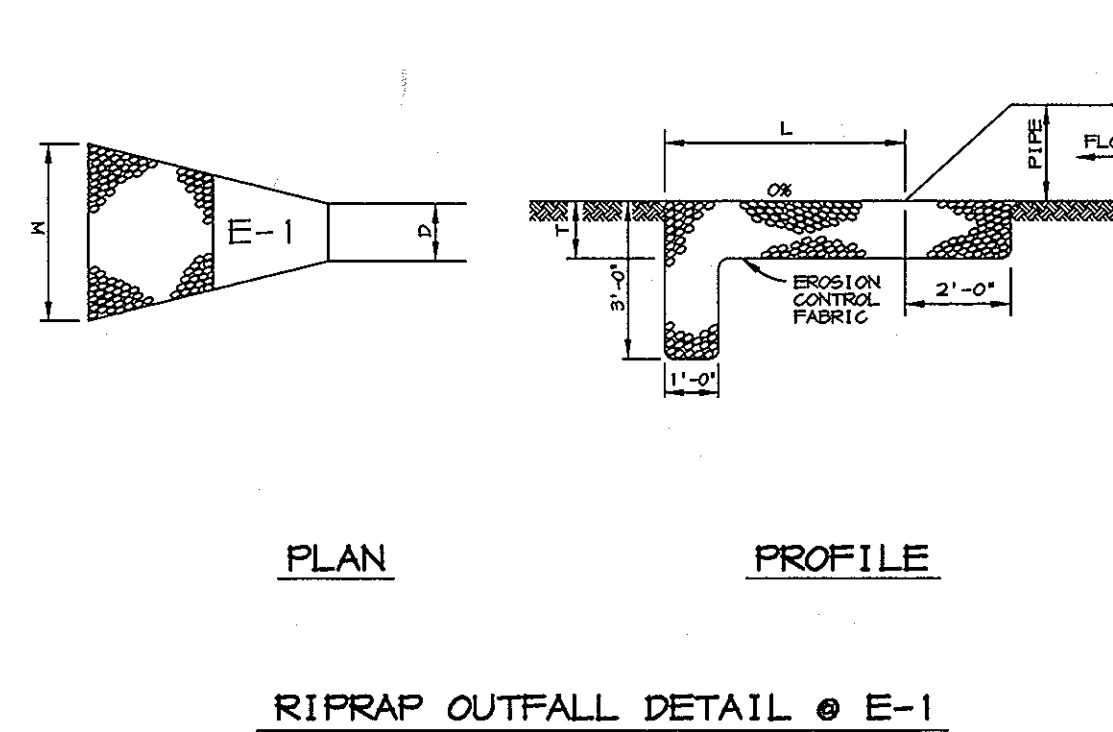
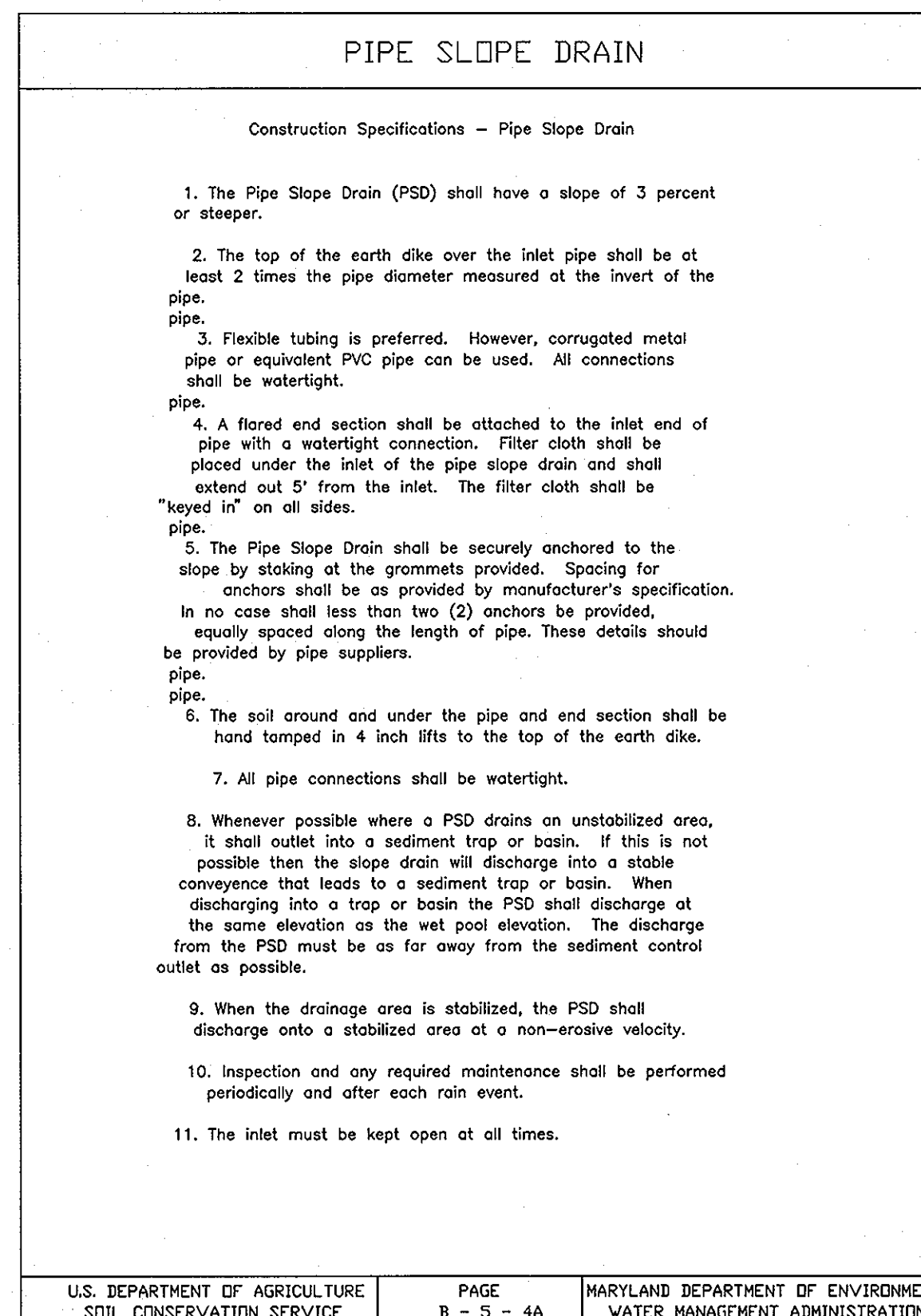
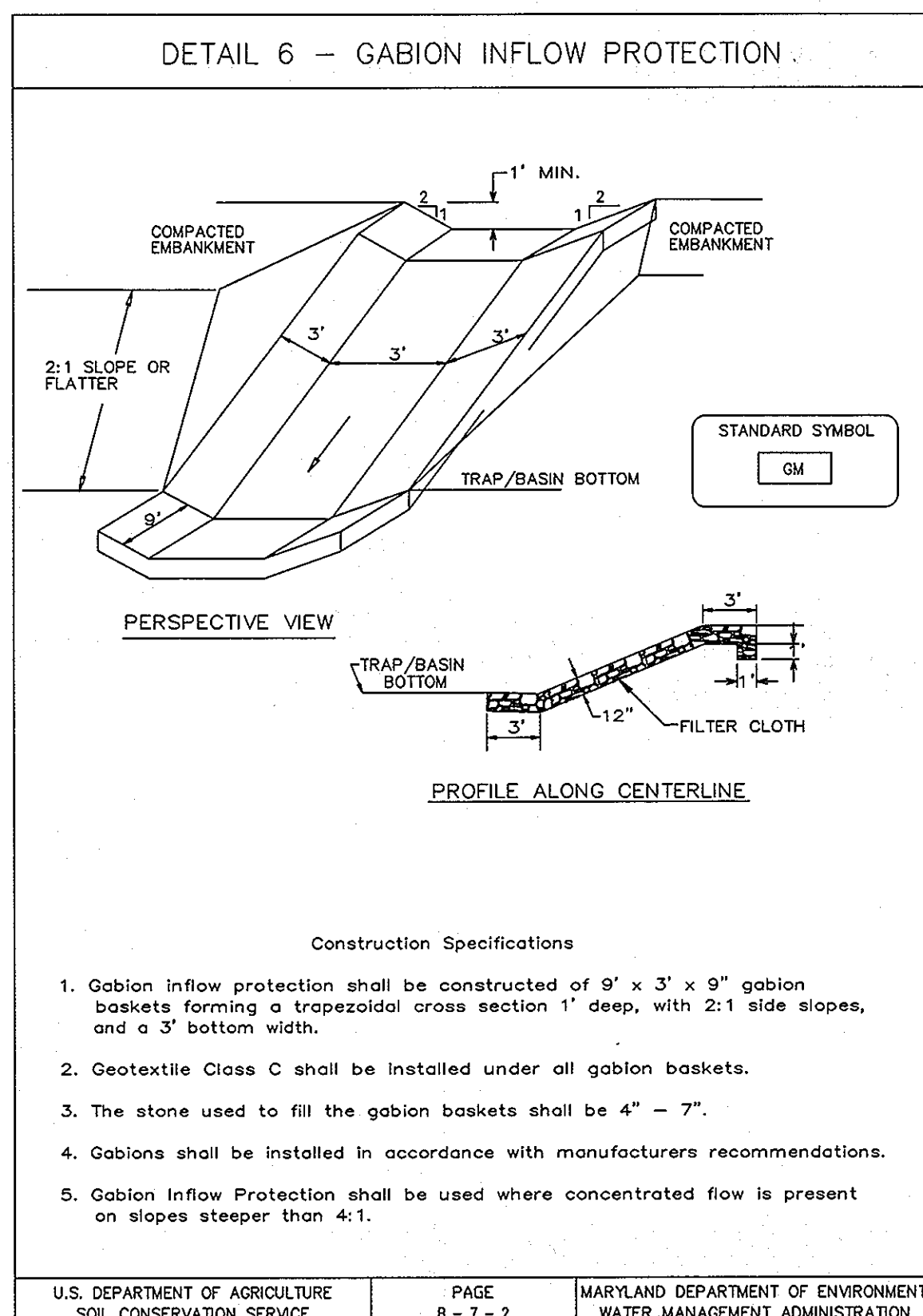
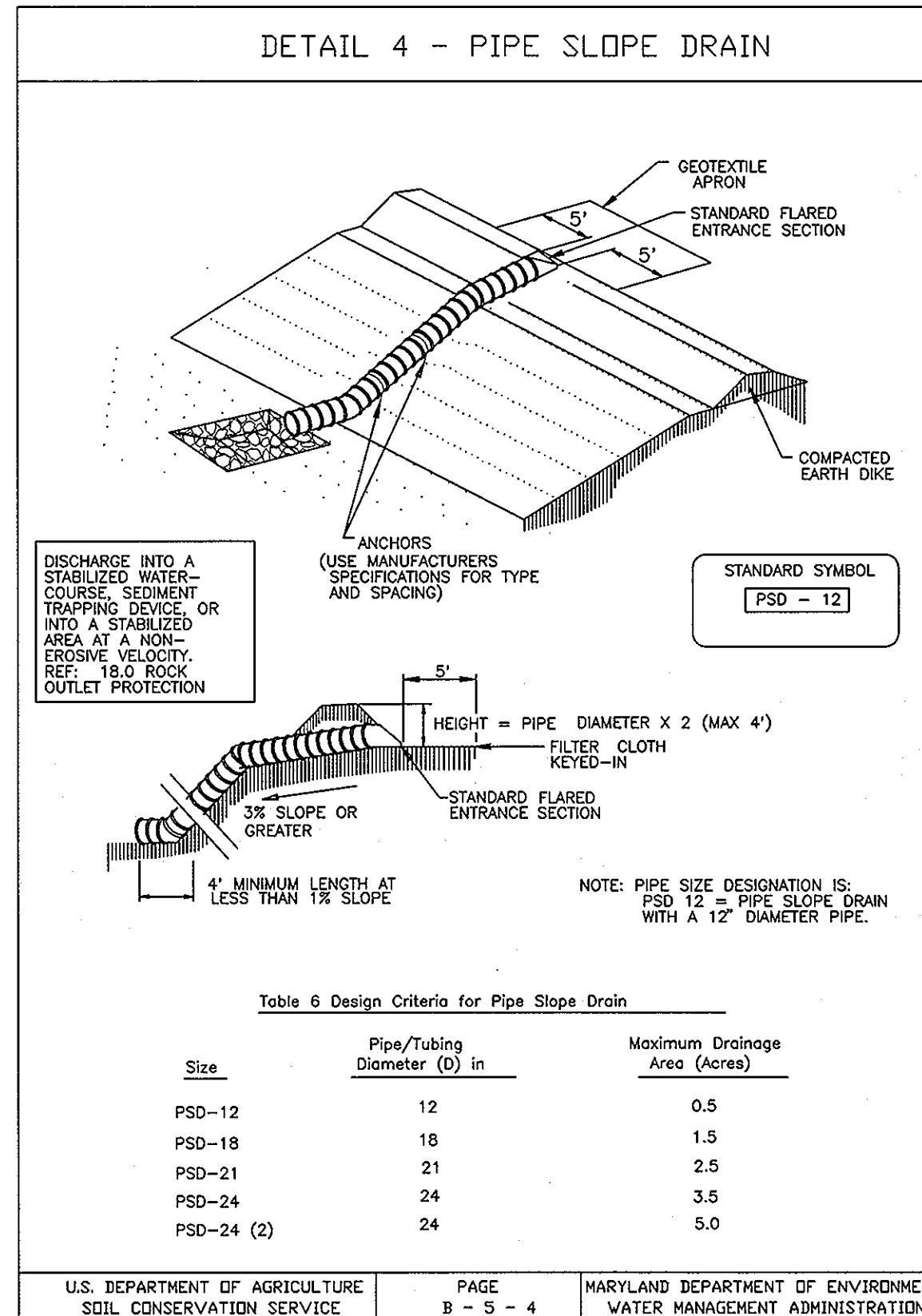
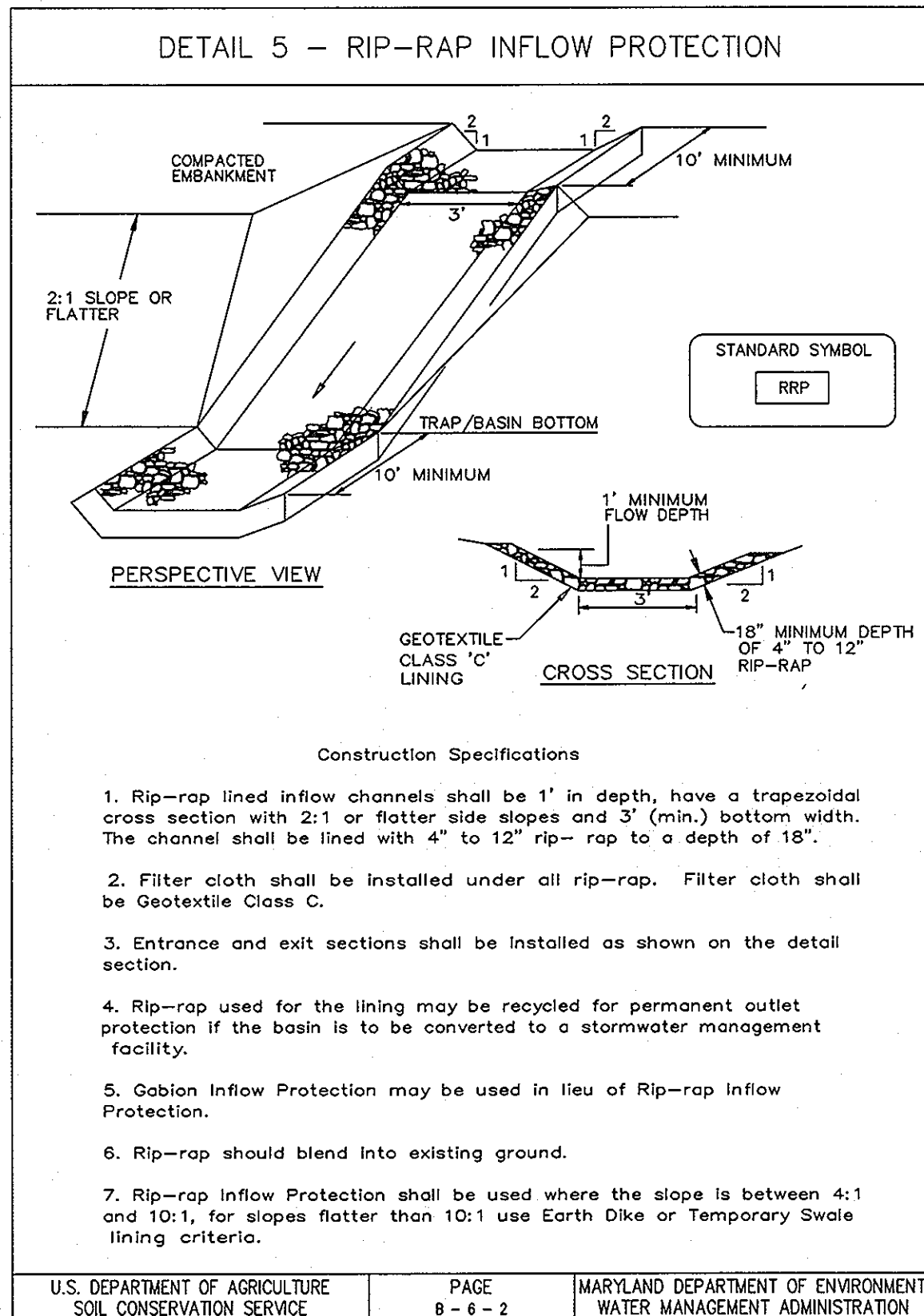
PROJECT NO: 99250

DATE: FEBRUARY 24, 2000

SCALE: 1"=30'

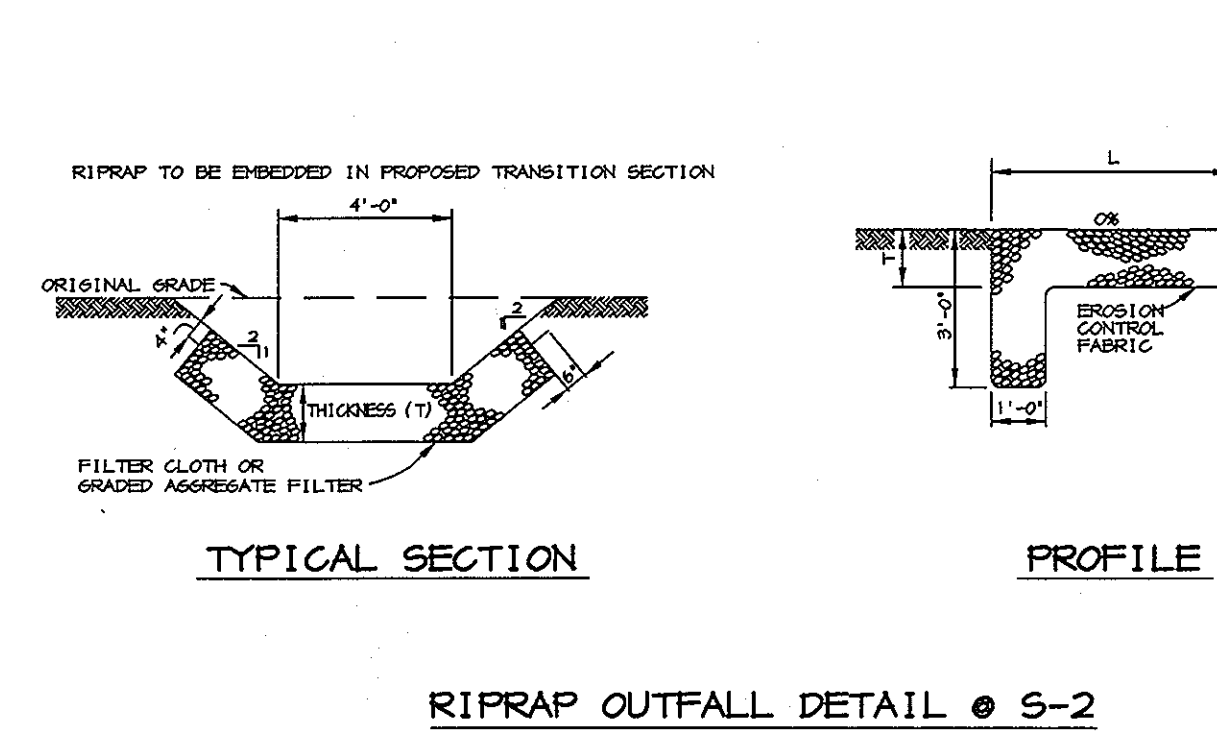
DRAWING NO. 8 OF 12

SDP-00-56

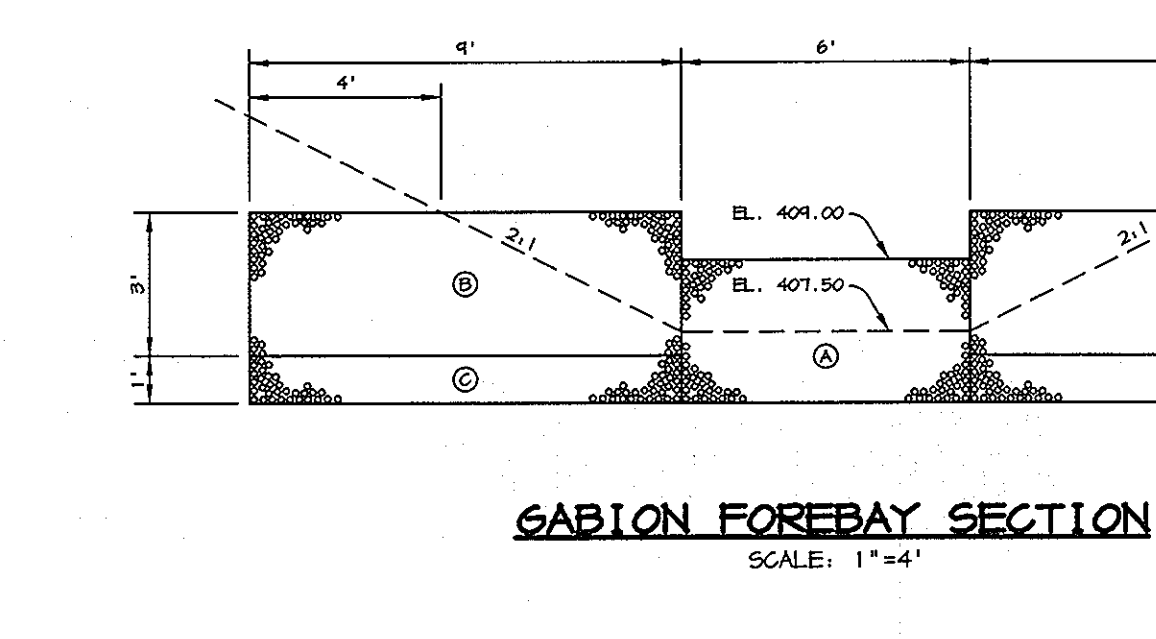


RIPRAP OUTFALL CONSTRUCTION NOTES

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



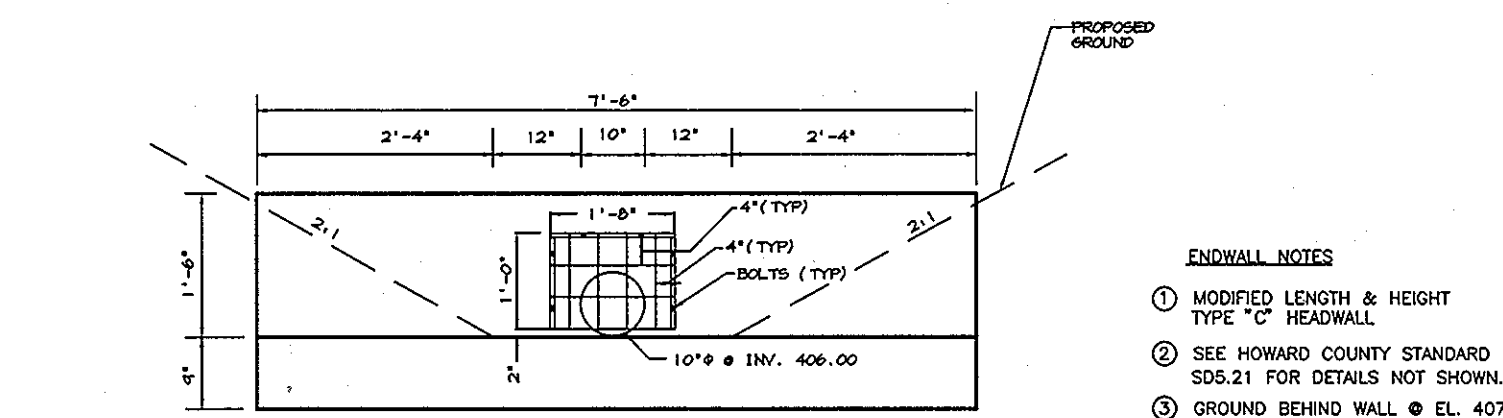
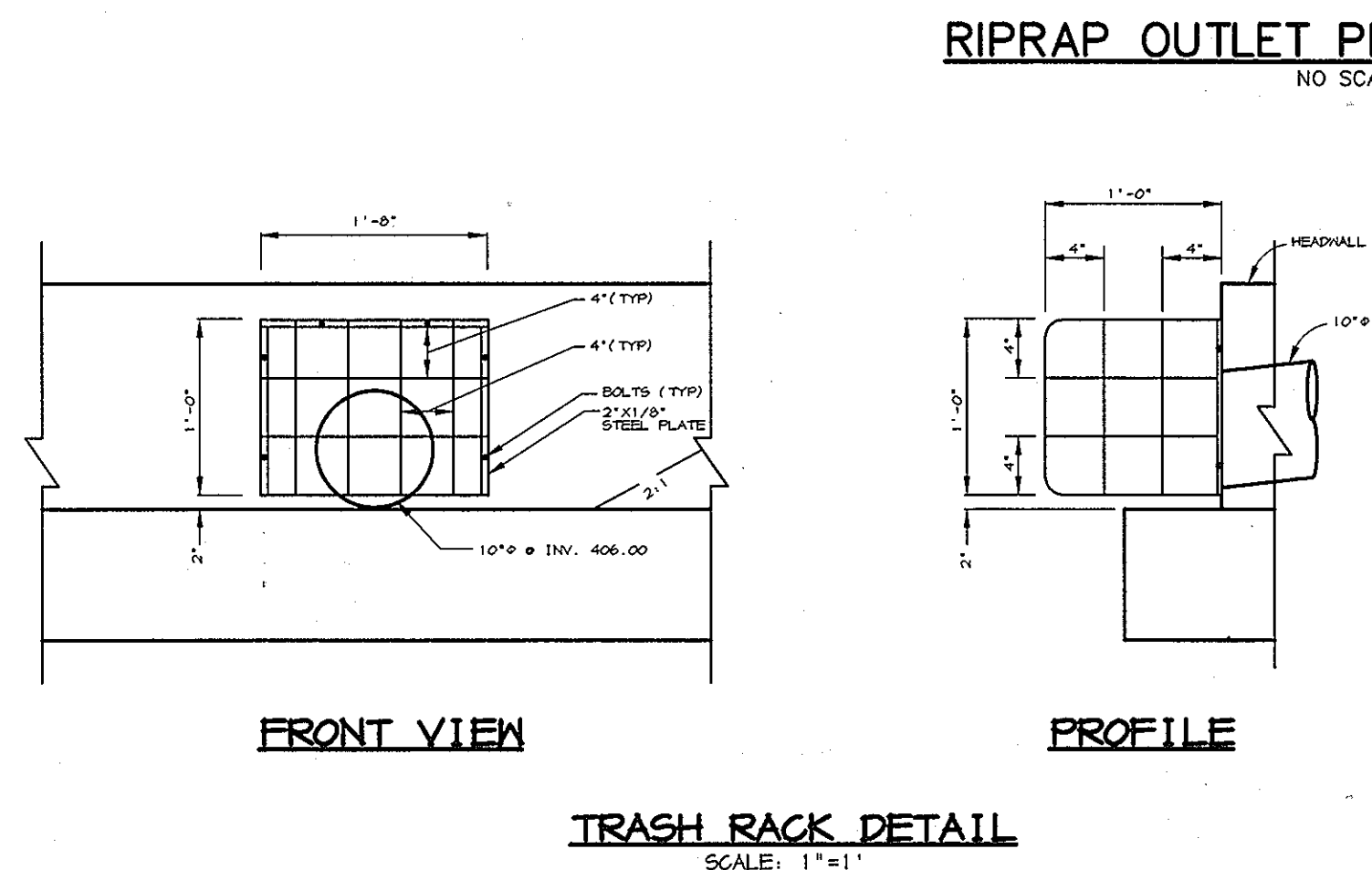
| STRUCTURE | MEDIAN STONE DIA. | LENGTH (L) | WIDTH (W) | THICKNESS (T) |
|-----------|-------------------|------------|-----------|---------------|
| E-1 | 4.5" | 16' | 4' | 14" |
| S-2 | 4.5" | 25' | 10' | 14" |



GABION FOREBAY NOTES

- Geotextile Class C shall be installed under all gabion baskets.
- The stone used to fill the gabion baskets shall be 4" - 7".
- Gabions shall be installed in accordance with manufacturers recommendations.
- Gabion Inflow Protection shall be used where concentrated flow is present on slopes steeper than 4:1.
- Gabions to be PVC coated.
- Gabions to be fastened together.
- Compact forebay embankment to MD 378 Standards using GC, SC, CH and/or CL soils.
- Contractor shall place 10 mil. (min.) vinyl sheeting along upstream buried face of gabions w/4" overlap and buried 12" into adjacent soil.

| GABION SCHEDULE | | |
|--------------------|----------------|-------------------|
| LETTER DESIGNATION | NO. OF GABIONS | GABION DIMENSIONS |
| A | 1 | 6'x3'x3' |
| B | 2 | 4'x3'x3' |
| C | 2 | 4'x3'x1' |



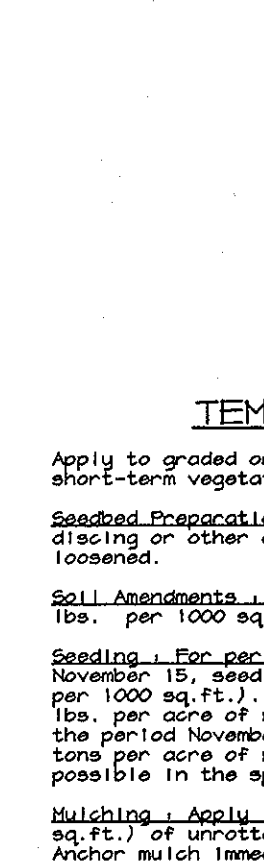
REMOVABLE TRASH RACK NOTES

- TRASH RACK SHALL BE ENTIRELY COVERED BY 1/2" GALVANIZED HARDWARE CLOTH, SECURELY FASTENED HARDWARE CLOTH TO ALL TRASH RACK SURFACES. (TOP AND SIDE)
- STEEL TO CONFORM TO ASTM A-36. #5 BARS TO BE SMOOTH. SEE DETAILS FOR SPACING.
- ALL BENDS TO BE 2" RADIUS. 2" X 1/8" STEEL PLATE AND 1/2" DIAMETER ANCHOR BOLTS TO BE USED FOR TRASH RACK FRAME.
- GALVANIZE TRASH RACK AFTER FABRICATION AND AND PAINT BATTLESHIP GRAY.
- TRASH RACK SHALL PROTRUDE 1".

ENDWALL NOTES

- MODIFIED LENGTH & HEIGHT TYPE "C" HEADWALL
- SEE HOWARD COUNTY STANDARD SDS.21 FOR DETAILS NOT SHOWN
- GROUND BEHIND WALL @ EL. 407.4

RIPRAP OUTLET PROTECTION DETAIL



TEMPORARY SEEDING NOTES

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

Seedbed Preparation - Loosen upper three inches of soil by raking, disking or other acceptable means before seeding, if not previously loosened.

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

Seeding - For periods March 1 thru April 30 and from August 15 thru November 15, seed with 2-1/2 bushels per acre of annual ryegrass (3.2 lbs. per 1000 sq. ft.). For the period May 1 thru August 14, seed with 3 lbs. per acre of meadow fescue (3.07 lbs. per 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. per 1000 sq. ft.) of unrotted small grain straw immediately after seeding. Anchor mulch immediately after application using mulch anchoring tool or 216 gal. per acre (5 gal. per 1000 sq. ft.) of emulsified asphalt on flat areas. On slopes, 6 ft. or higher, use 341 gal. per acre (8 gal. per 1000 sq. ft.) for anchoring.

Refer to the 1984 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL for rate and methods not covered.

PERMANENT SEEDING NOTES

Apply to graded or cleared areas 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, disking or other acceptable means before seeding, if not previously loosened.

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

- Preferred - Apply 2 tons per acre dolomitic limestone (42 lbs. per 1000 sq. ft.) and 600 lbs. per acre 10-10-10 Fertilizer (14 lbs. per 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 ureaformal fertilizer (4 lbs. per 1000 sq. ft.).
- Acceptable - Apply 2 tons per acre dolomitic limestone (42 lbs. per 1000 sq. ft.) and 1000 lbs. per acre 10-10-10 Fertilizer (23 lbs. per 1000 sq. ft.) before seeding. Harrow or disc into upper three inches of soil.

Seeding - For the period March 1 thru April 30 and from August 1 thru October 15, seed with 60 lbs. per acre (1.4 lbs. per 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 (0.05 lbs. per 1000 sq. ft.) of meadow fescue. During the period October 16 thru February 28, protect site by one of the following options:

- 2 tons per acre of well-anchored mulch straw and seed as soon as possible in the spring.
- Use sod.
- Seed with 60 lbs. per acre Kentucky 31 Tall Fescue and mulch with 2 tons per acre well anchored straw.

Mulching - Apply 1-1/2 to 2 tons per acre (70 to 90 lbs. per 1000 sq. ft.) of unrotted small grain straw immediately after seeding. Anchor mulch immediately after application using mulch anchoring tool or 216 gal. per acre (5 gal. per 1000 sq. ft.) of emulsified asphalt on flat areas. On slopes, 6 ft. or higher, use 341 gal. per acre (8 gal. per 1000 sq. ft.) for anchoring.

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

BY THE DEVELOPER:

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 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.

Arthur E. Muegge 2/25/00
DEVELOPER DATE

BY THE ENGINEER:

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.

Arthur E. Muegge 2/25/00
ENGINEER 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 Spinnaker 3/2/00
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.

Arthur E. Muegge 3/2/00
HOWARD SOIL CONSERVATION DISTRICT DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.

Mark D. Gagliardi 2/4/00
DIRECTOR DATE

John D. Williams 3/16/00
CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

Cheryl Spinnaker 3/2/00
CHIEF, DIVISION OF LAND DEVELOPMENT DATE

DATE NO. REVISION

OWNER / DEVELOPER

HOWARD COUNTY COMMUNITY COLLEGE
10901 LITTLE PATUXENT PARKWAY
COLUMBIA, MARYLAND 21044-3197
ATTN: MR. JAMES O. LASH
410-772-4296

PROJECT

HOWARD COUNTY COMMUNITY COLLEGE
CHILD CARE CENTER

AREA

PARCEL 47 ZONED POR
TAX MAP NO. 35, 36 BLOCK 6 & 1
5th ELECTION DISTRICT, HOWARD COUNTY, MD.

TITLE

SEDIMENT AND EROSION CONTROL
NOTES AND DETAILS

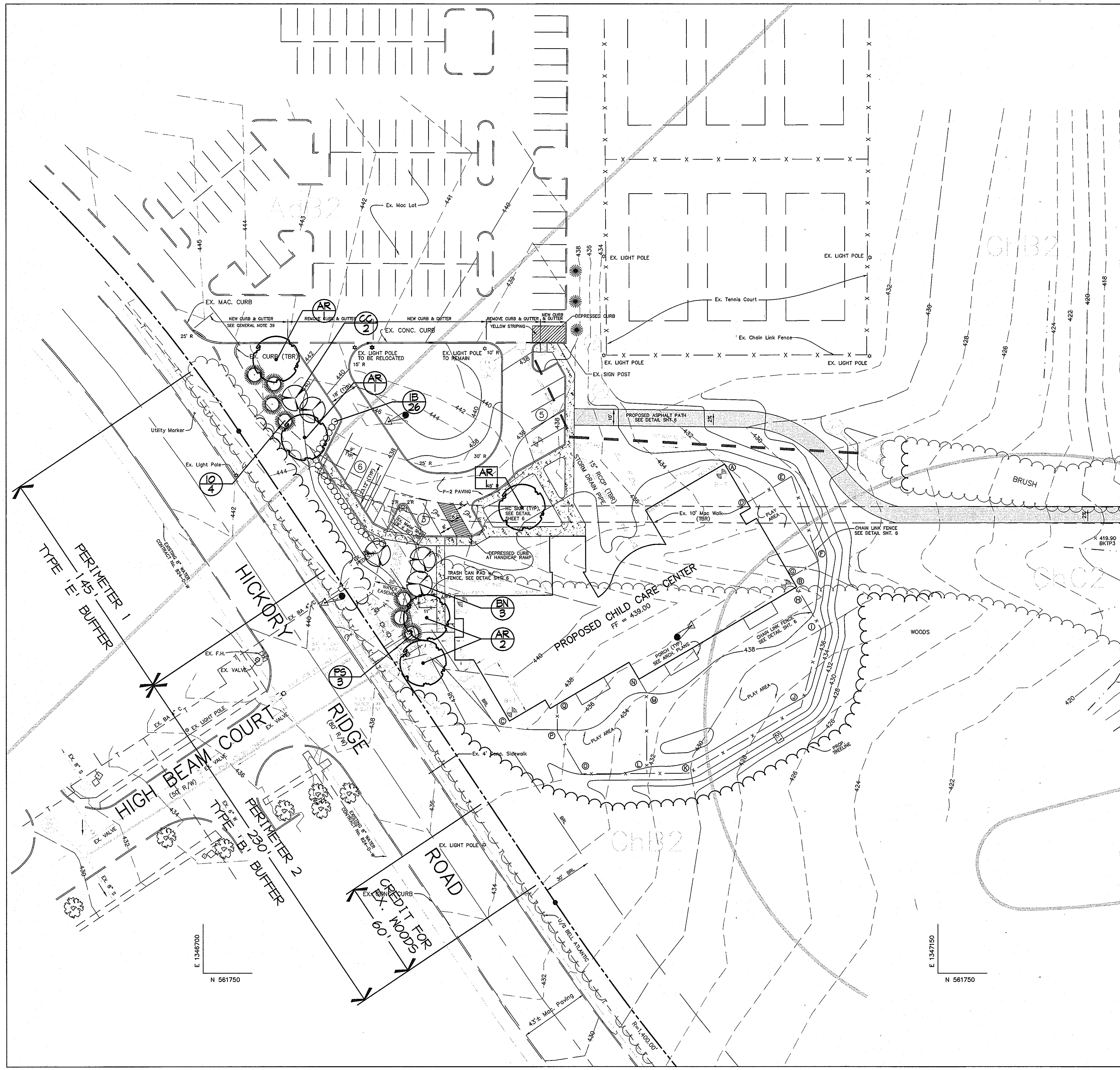
RIEMER MUEGGE & ASSOCIATES INC.
ENGINEERING • ENVIRONMENTAL SERVICES • PLANNING • SURVEYING
8818 Centre Park Drive, Columbia, MD 21045
tel 410.997.8800 fax 410.997.9282

DESIGNED BY: A.A.P.
DRAWN BY: J.A.P.
PROJECT NO: 99250
DATE: FEBRUARY 24, 2000
SCALE: AS SHOWN
DRAWING NO. 10 OF 12

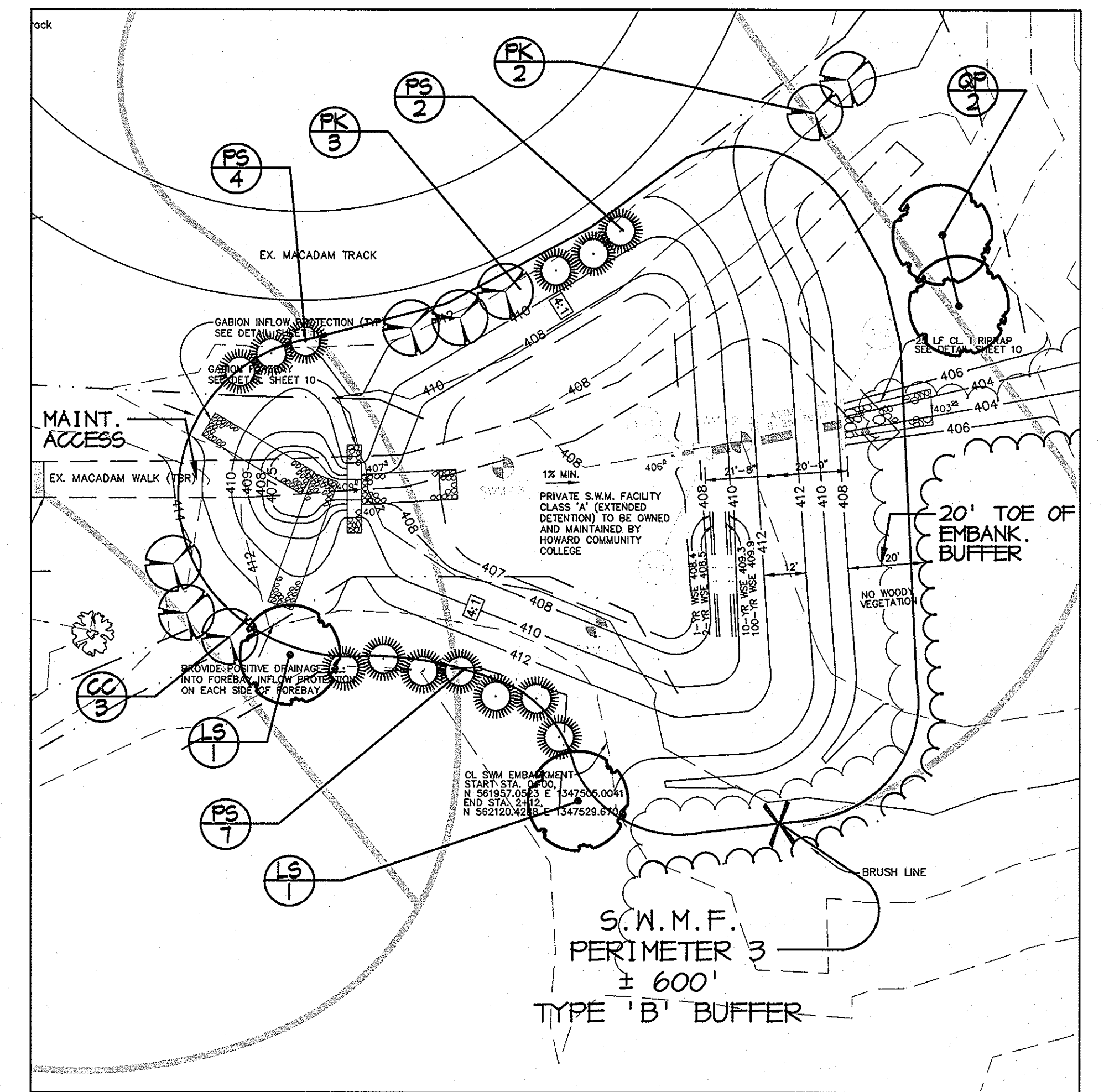
Arthur E. Muegge #8707
ARTHUR E. MUEGGE

DATE
STATE OF MARYLAND
REGISTERED PROFESSIONAL ENGINEER

SDP-00-56



DAYCARE LOCATION

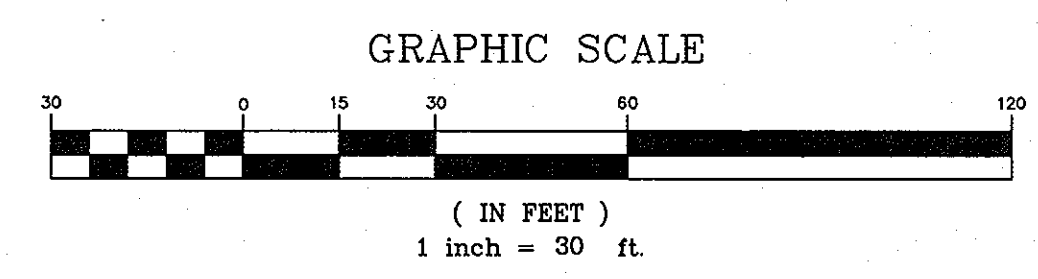


STORMWATER MNGT. FACILITY LOCATION

NOTE:
SEE SHEET 12 FOR LANDSCAPE NOTES AND DETAILS.

- PERIMETER LANDSCAPE REQUIREMENT
- PARKING LOT LANDSCAPE REQUIREMENT

| PLANTING LEGEND | |
|-----------------------|--|
| PROP. SHADE TREE | |
| PROP. ORNAMENTAL TREE | |
| PROP. EVERGREEN TREE | |
| PROP. EVERGREEN SHRUB | |
| PROP. TREE LINE | |
| EXISTING SHADE TREE | |
| EXISTING TREE LINE | |



| | |
|--|--------------------------|
| AS BUILT CERTIFICATE | |
| DATE | |
| APPROVED : HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING. | |
| <i>Mark D. Goff</i> | 3/1/00 |
| DIRECTOR | DATE |
| <i>John P. ...</i> | 2/16/00 |
| CHIEF, DEVELOPMENT ENGINEERING DIVISION | DATE |
| <i>Andy ...</i> | 2/1/00 |
| CHIEF, DIVISION OF LAND DEVELOPMENT | DATE |
| DATE NO. | REVISION |
| OWNER / DEVELOPER | |
| HOWARD COUNTY COMMUNITY COLLEGE 10901 LITTLE PATUXENT PARKWAY COLUMBIA, MARYLAND 21044-3197 ATTN: MR. JAMES O. LASH 410-772-4296 | |
| PROJECT | |
| HOWARD COMMUNITY COLLEGE CHILD CARE CENTER | |
| AREA | |
| PARCEL 47 ZONED POR TAX MAP NO. 35, 36 BLOCK 6 & 1 5th ELECTION DISTRICT, HOWARD COUNTY, MD. | |
| TITLE | |
| LANDSCAPE PLAN | |
| RIEMER MUEGGE & ASSOCIATES INC ENGINEERING • ENVIRONMENTAL SERVICES • PLANNING • SURVEYING 8818 Centre Park Drive, Columbia, MD 21045 tel 410.997.8900 fax 410.997.9282 | |
| | DESIGNED BY : D.T.D. |
| | DRAWN BY: A.J.L. |
| | PROJECT NO : 99250 |
| | DATE : FEBRUARY 24, 2000 |
| | SCALE : AS SHOWN |
| | DRAWING NO. 11 OF 12 |
| DAVID T. DOWS R.L.A. #830 | SDP-00-56 |

| SCHEDULE B - PARKING LOT INTERNAL LANDSCAPING | |
|---|----|
| PARKING LOT | 1 |
| NUMBER OF PARKING SPACES | 14 |
| NUMBER OF SHADE TREES REQUIRED (1/20 SPACES) | 1 |
| NUMBER OF TREES PROVIDED | |
| SHADE TREES | 1 |
| OTHER TREES (2:1 SUBSTITUTION) | - |
| NUMBER OF ISLANDS REQUIRED | 1 |
| NUMBER OF ISLANDS PROVIDED | 1 |

SCHEDULE 'B' NOTES:
 EXPANSION OF PARKING LOTS BY THAN 50% SHALL BE REQUIRED TO PROVIDE LANDSCAPE FOR THE ADDITIONAL DEVELOPMENT ONLY. (PAGE 3 OF THE HO. CO. LANDSCAPE MANUAL)

| SCHEDULE D - STORMWATER MANAGEMENT AREA LANDSCAPING | |
|--|------------|
| S.N.M. PERIMETER | 3 |
| LANDSCAPE TYPE | B |
| LINEAR FEET OF TOTAL PERIMETER | ± 600' |
| CREDIT FOR EXISTING FOREST YES / NO / LINEAR FEET | NO |
| CREDIT FOR EX. VEGETATION (NO OR YES & %) YES / NO / LINEAR FEET | YES ± 150' |
| LINEAR FEET OF REMAINING PERIMETER | ± 450' |
| NUMBER OF TREES REQUIRED: | |
| SHADE TREES (@ 1/50') | 4 |
| EVERGREEN TREES (@ 1/40') | 11 |
| NUMBER OF PLANTS PROVIDED | |
| SHADE TREES | 4 |
| EVERGREEN TREES (2:1 SUBSTITUTION, 50% MAX.) | 13 |
| OTHER TREES (2:1 SUBSTITUTION, 50% MAX.) | 0 |
| SHRUBS (10:1 SUBSTITUTION, 25% MAX.) | - |

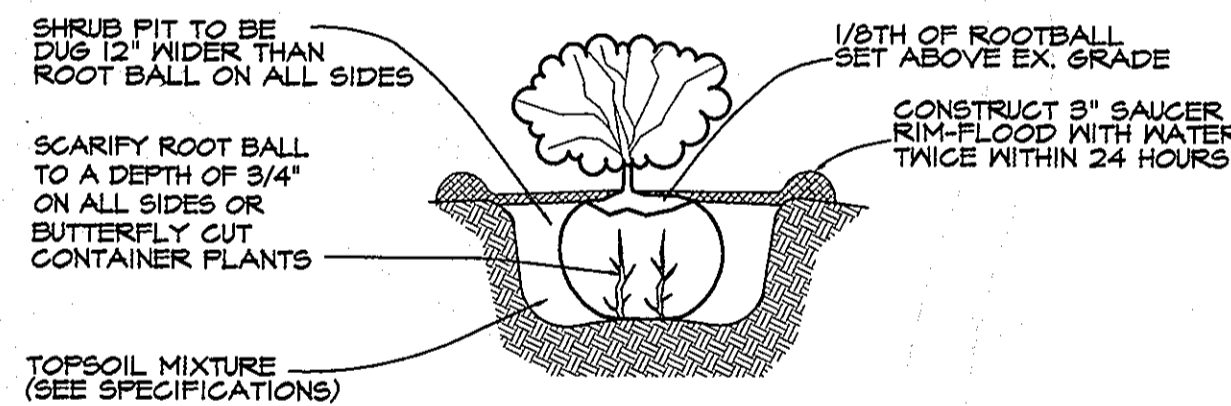
SCHEDULE 'D' SUBSTITUTION NOTES:
 (2) EVERGREEN TREES WERE SUBSTITUTED FOR (1) SHADE TREE
 (8) FLOWERING TREES WERE SUBSTITUTED FOR (4) SHADE TREES

| SCHEDULE A - PERIMETER LANDSCAPE EDGE | | |
|--|----------------------|-------------|
| | ADJACENT TO ROADWAYS | |
| PERIMETER | 1 | 2 |
| LANDSCAPE TYPE | E | B |
| LINEAR FEET OF ROADWAY FRONTAGE/ PERIMETER | ± 145' | ± 230' |
| CREDIT FOR EXISTING VEGETATION (YES, NO, LINEAR FEET) (DESCRIBE BELOW IF NEEDED) | NO | YES ± 60' |
| CREDIT FOR WALL, FENCE, BERM OR DRIVE AISLE (YES/NO) (LINEAR FEET) | NO | NO |
| NUMBER OF PLANTS REQUIRED | | |
| SHADE TREES | @ 1/40' = 4 | @ 1/50' = 3 |
| EVERGREEN TREES | - | @ 1/40' = 4 |
| SHRUBS | @ 1/4' = 36 | - |
| NUMBER OF PLANTS PROVIDED | | |
| SHADE TREES | 2 | 2 |
| EVERGREEN TREES | 4 | 3 |
| SMALL FLOWERING TREES | 2 | 3 |
| SHRUBS | 26 | - |

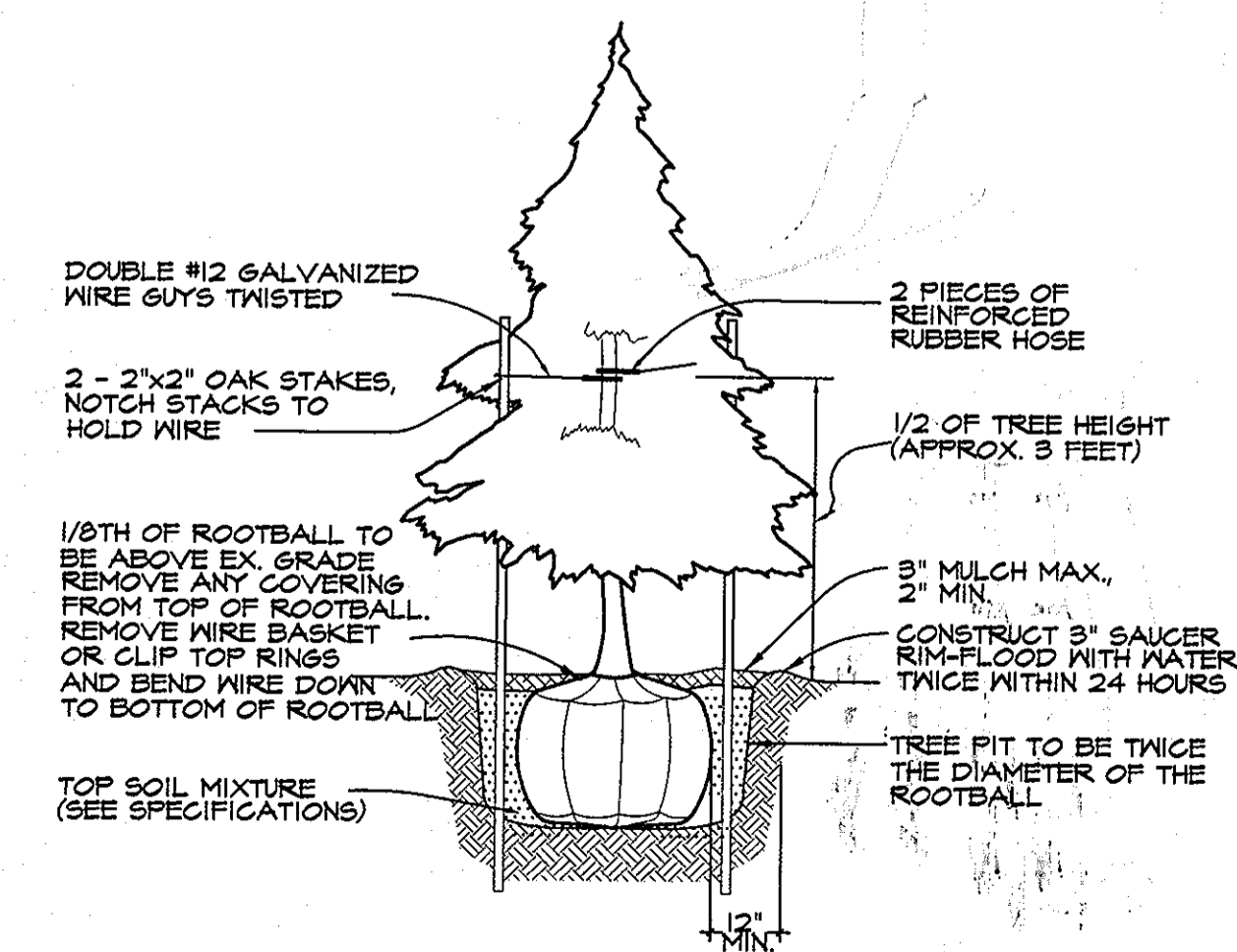
SCHEDULE 'A' NOTES:
 REGULATIONS DO NOT REQUIRE LANDSCAPE EDGES, BUFFERING, OR SCREENING BETWEEN INTERNAL LOTS OR PARCELS WITHIN THE SAME DEVELOPMENT. (PAGE 17 OF THE HO. CO. LANDSCAPE MANUAL)

SUBSTITUTION NOTES:
PERIMETER 1
 (4) EVERGREEN TREES WERE SUBSTITUTED FOR (2) SHADE TREE
 (2) FLOWERING TREES WERE SUBSTITUTED FOR (10) SHRUBS
PERIMETER 2
 (3) FLOWERING TREES WERE SUBSTITUTED FOR (1) EVERGREEN TREE AND (1) SHADE TREE

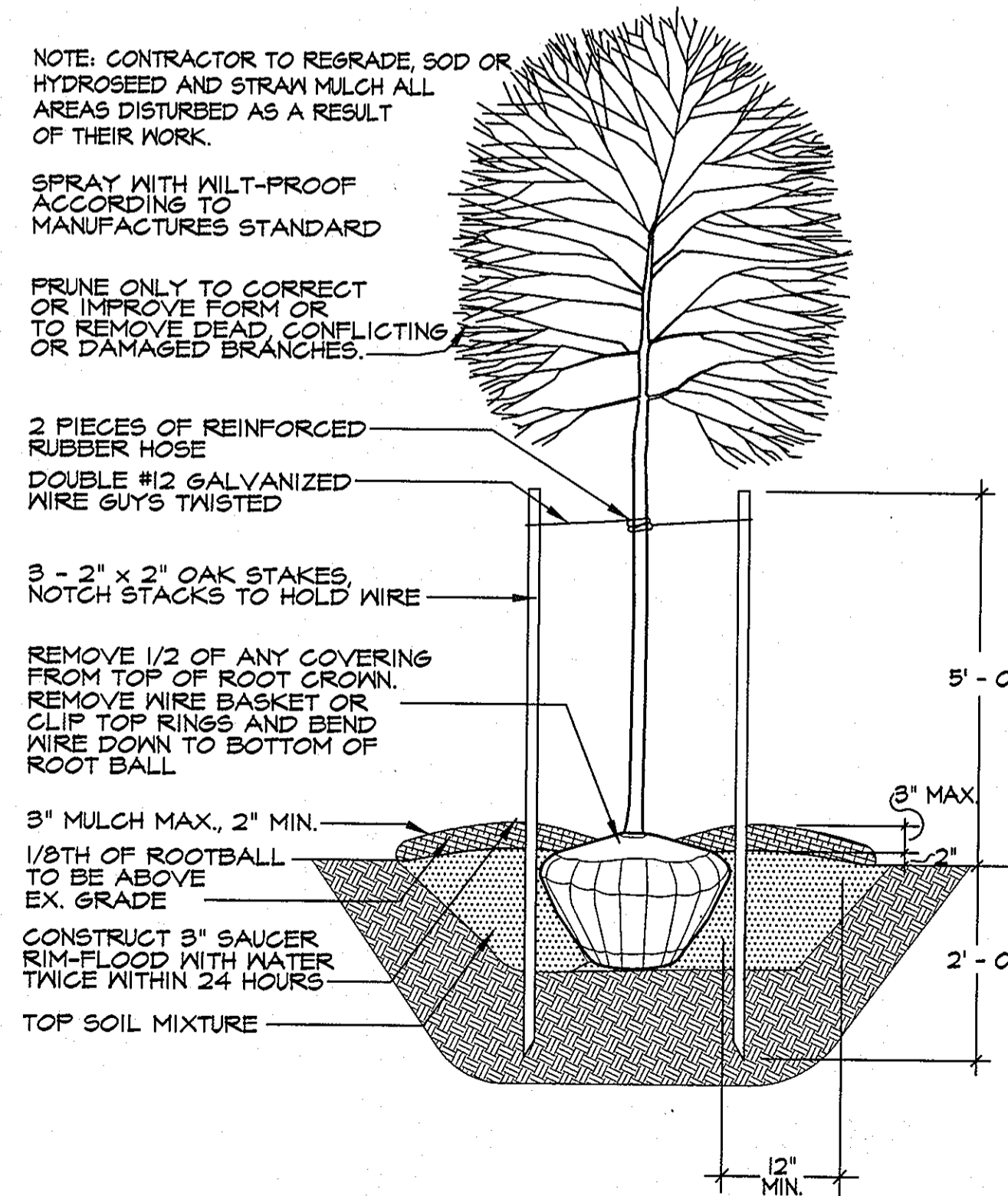
| PLANT LIST | | | | | |
|------------------------------|-----|---|---------------------------|-------|-----------------------|
| KEY | QTY | BOTANICAL + COMMON NAME | SIZE | ROOT | SPACING |
| MAJOR DECIDUOUS TREES | | | | | |
| AR | 5 | Acer rubrum Red Maple | 2 1/2" Cal. (12"-14' Ht.) | B & B | Space as shown |
| LS | 2 | Liquidambar styraciflua Sweet Gum | 2 1/2" Cal. (12"-14' Ht.) | B & B | Space as shown |
| QP | 2 | Quercus phellos Willow Oak | 2 1/2" Cal. (12"-14' Ht.) | B & B | Space as shown |
| EVERGREEN TREES | | | | | |
| PS | 16 | Pinus strobus Eastern White Pine | 6'-8" Ht. | B & B | Min. spacing 15' o.c. |
| IO | 4 | Ilex opaca American Holly | 6'-8" Ht. | B & B | Min. spacing 12' o.c. |
| MINOR DECIDUOUS TREES | | | | | |
| BN | 3 | Betula nigra 'Heritage' Heritage Clump Birch | 8'-10' Ht. | B & B | Min. spacing 15' o.c. |
| CC | 5 | Cercis canadensis Eastern Redbud | 8'-10' Ht. | B & B | Min. spacing 12' o.c. |
| PK | 5 | Prunus serrata 'Kwanzan' Kwanzan Cherry | 8'-10' Ht. | B & B | Min. spacing 12' o.c. |
| SHRUBS | | | | | |
| IB | 26 | Ilex cornuta 'Burfordii nana' Dwarf Burford Holly | 24"-30" Ht. | CONT | Plant 4' o.c. |



SHRUB PLANTING DETAIL
 NOT TO SCALE



EVERGREEN PLANTING DETAIL
 NOT TO SCALE



B&B TREE PLANTING DETAIL
 NOT TO SCALE

NOTES:
 1) THIS PLAN HAS BEEN PREPARED IN ACCORDANCE WITH THE PROVISIONS OF SECTION 16.124 OF THE HOWARD COUNTY CODE AND THE LANDSCAPE MANUAL. FINANCIAL SURETY FOR THE REQUIRED LANDSCAPING ~~IS NOT REQUIRED.~~
 2) THIS PLAN IS FOR LANDSCAPING PURPOSES ONLY.
 4) CONTRACTOR IS SOLELY RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, PROCEDURES, AND SAFETY PRECAUTIONS AND PROGRAMS.

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

NAME: J. Chah DATE: 2/25/00

| AS BUILT CERTIFICATE | |
|--|--|
| APPROVED: | HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING. |
| DIRECTOR | <u>Mark A. Gault</u> 3/1/00 DATE |
| CHIEF, DEVELOPMENT ENGINEERING DIVISION | <u>Michael D. ...</u> 3/6/00 DATE |
| CHIEF, DIVISION OF LAND DEVELOPMENT | <u>Chris ...</u> 3/7/00 DATE |
| DATE NO. | REVISION |
| OWNER / DEVELOPER | HOWARD COUNTY COMMUNITY COLLEGE 10901 LITTLE PATUXENT PARKWAY COLUMBIA, MARYLAND 21044-3197 ATTN: MR. JAMES O. LASH 410-772-4296 |
| PROJECT | HOWARD COMMUNITY COLLEGE CHILD CARE CENTER |
| AREA | PARCEL 47 ZONED POR TAX MAP NO. 35, 36 BLOCK 6 & 1 5th ELECTION DISTRICT, HOWARD COUNTY, MD. |
| TITLE | LANDSCAPE NOTES & DETAILS |
| RIEMER MUEGGE & ASSOCIATES INC. ENGINEERING • ENVIRONMENTAL SERVICES • PLANNING • SURVEYING 8818 Centre Park Drive, Columbia, MD 21046 tel 410.997.8900 fax 410.997.8282 | |
| DESIGNED BY: | D.T.D. |
| DRAWN BY: | A.J.L. |
| PROJECT NO: | 99250 |
| DATE: | FEBRUARY 24, 2000 |
| SCALE: | AS SHOWN |
| DRAWING NO. | 12 OF 12 |
| DAVID T. DOWS R.L.A. #830 SDP-00-56 | |