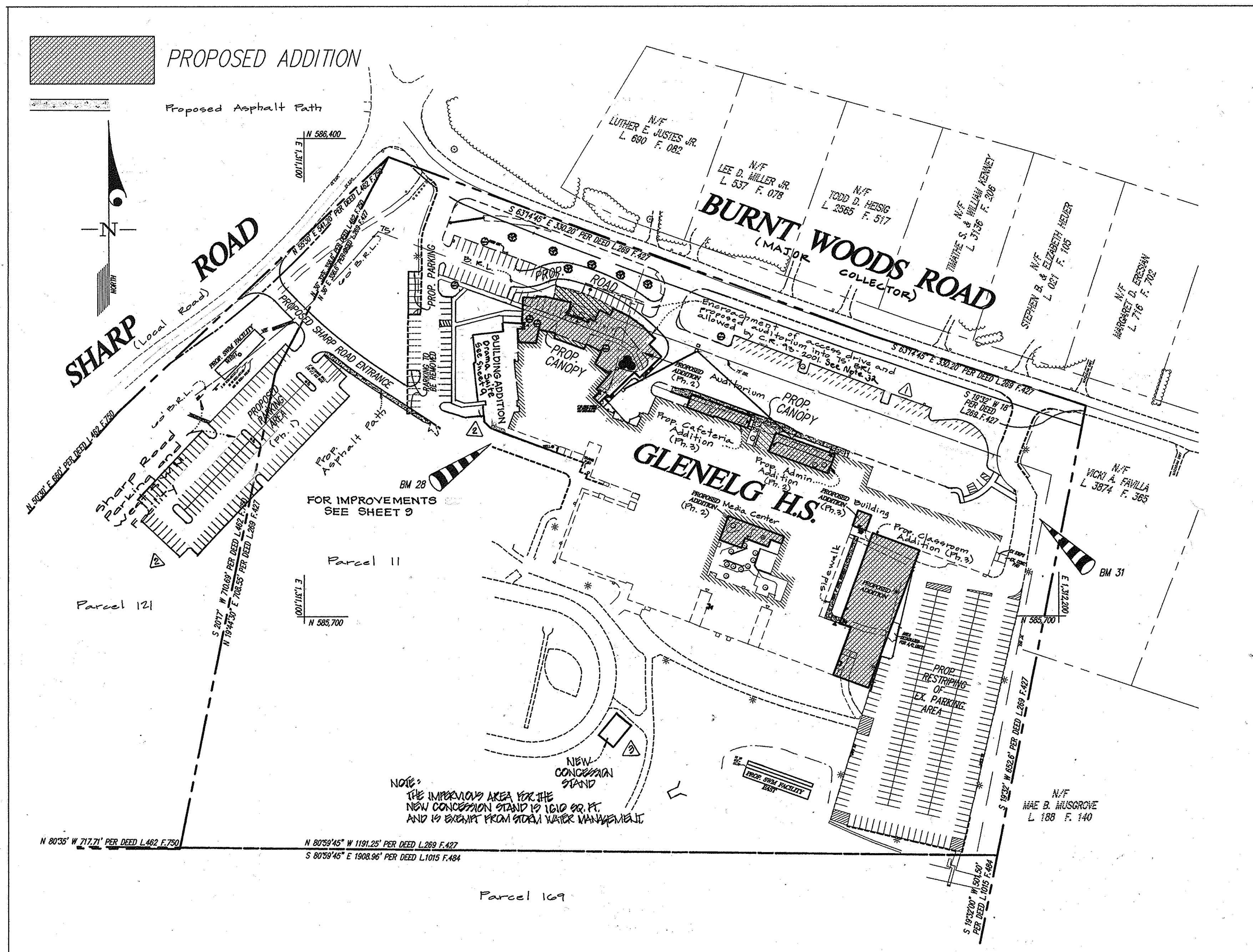
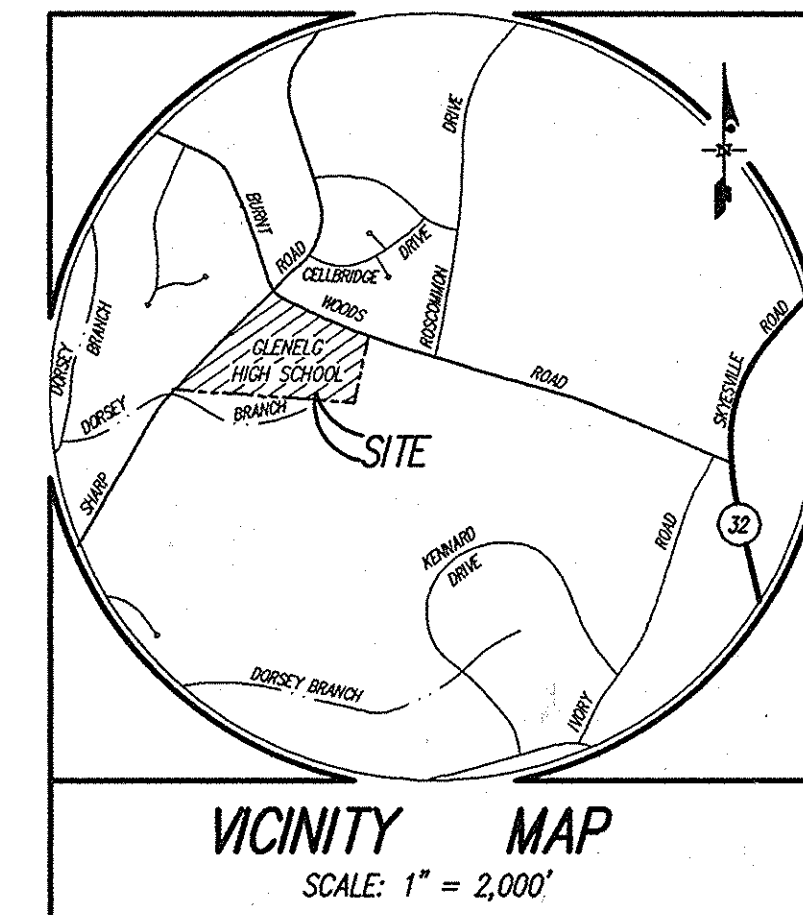


**GENERAL NOTES**

- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST STANDARDS AND SPECIFICATIONS OF HOWARD COUNTY PLUS MSHA STANDARDS AND SPECIFICATIONS IF APPLICABLE.
- THE CONTRACTOR SHALL NOTIFY THE BUREAU OF ENGINEERING/CONSTRUCTION INSPECTION DIVISION AT (410) 313-1880 AT LEAST FIVE (5) WORKING DAYS PRIOR TO THE START OF WORK.
- THE CONTRACTOR SHALL NOTIFY "MISS UTILITY" AT 1-800-257-7777 AT LEAST 48-HOURS PRIOR TO ANY EXCAVATION WORK.
- PROJECT BACKGROUND:  
LOCATION: TAX MAP #21, GRID 0012,  
PARCEL 121 7.35 ac. 462/750  
PARCEL 11 22.79 ac. 265/427  
PARCEL 169 10.80 ac. 1015/484  
ZONING: RR-DEO  
ELECTION DISTRICT: 4TH  
SITE AREA: 40.94 AC
- TRAFFIC CONTROL DEVICES, MARKINGS, AND SIGNING SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD). ALL STREET AND REGULATORY SIGNS SHALL BE IN PLACE PRIOR TO THE PLACEMENT OF ANY ASPHALT.
- ALL PLAN DIMENSIONS ARE TO THE FACE OF CURB OR FACE OF BUILDING UNLESS OTHERWISE NOTED. DIMENSIONS ARE MEASURED PERPENDICULAR OR RADIIALLY BETWEEN ITEMS UNLESS OTHERWISE NOTED.
- THE EXISTING TOPOGRAPHY IS TAKEN FROM FIELD RUN SURVEY WITH TWO FOOT CONTOUR INTERVALS PREPARED BY: SCHMIDT, FELTZ & Mc DONALD, INC. AND SUPPLEMENTED BY GUTSCHICK, LITTLE & WEBER, P.A.
- THE EXISTING WATER SERVICE IS PRIVATE (BY WELL).
- STORMWATER MANAGEMENT IS PROVIDED BY ON-SITE PRIVATE FACILITY AND IS TO BE MAINTAINED BY THE OWNER. A DETENTION FACILITY MANAGING THE 2, 10, & 100 YEAR STORM EVENTS WITH UNDERGROUND INFILTRATION FOR QUALITY CONTROL IS PROPOSED ON THE WEST SIDE.  
AN UNDERGROUND INFILTRATION FACILITY PROVIDING STORAGE TO MANAGE AN AFTER DEVELOPMENT 10YR STORM EVENT TO A BEFORE DEVELOPMENT 2 YR. STORM RATE IS PROPOSED IN THE EAST SIDE.
- ALL STORM DRAINAGE PROPOSED UNDER THIS SDP ARE PRIVATE.
- INFORMATION CONCERNING UNDERGROUND UTILITIES WAS OBTAINED FROM PLANS ENTITLED:  
A) GLENELG JUNIOR-SENIOR HIGH SCH. DATED 5/8/57 PREP. BY JOHANNES & MURRAY ARCHITECTS  
B) ADDITIONS TO GLENELG JUNIOR-SENIOR HIGH SCHOOL DATED 4/16/62 PREPARED BY JOHANNES & MURRAY ARCHITECTS  
C) ADDITIONS & ALTERATIONS TO GLENELG HIGH DATED 5/16/68 PREPARED BY JOHANNES & MURRAY ARCHITECTS  
D) AUDITORIUM ADDITION TO GLENELG SENIOR HIGH DATED 3/17/70 PREP. BY JOHANNES & MURRAY ARCHITECTS  
E) SDP 81-184 DATED 6/16/81 PREPARED BY DAVID GREGORY & ASSOC. INC.  
F) MODERNIZATION AND EXPANSION TO GLENELG HIGH SCHOOL DATED 1/9/85 PREPARED BY VKA, ENGINEERS; EUGENE A. DELMAU, ARCHITECT
- THE CONTRACTOR MUST DETERMINE THE EXACT LOCATION BY DIGGING TEST PITS BY HAND AT ALL UTILITY CROSSING WELL IN ADVANCE OF CONSTRUCTION.
- ALL PROPOSED RAMPS SHALL BE IN ACCORDANCE WITH CURRENT A.D.A. STANDARDS. MAXIMUM SIDEWALK CROSS SLOPE SHALL BE (2%) TWO PERCENT. PROVIDE A MIN. OF (5'X5') FIVE FOOT BY FIVE FOOT LEVEL (2% MAX.) LANDING AT THE TOP AND BOTTOM OF ALL RAMPS AND BUILDING ENTRANCES AND EXITS.
- ALL DRIVEWAYS AND PARKING TO BE OWNED AND MAINTAINED BY HOWARD COUNTY BOARD OF EDUCATION.
- ANY DAMAGE TO COUNTY OWNED RIGHT-OF-WAY TO BE CORRECTED AT THE CONTRACTOR'S EXPENSE.
- TRENCH BEDDING FOR STORM DRAINAGE STRUCTURES SHALL BE IN ACCORDANCE WITH HOWARD COUNTY STANDARD G2.01. CLASS "C" BEDDING, UNLESS OTHERWISE NOTED.
- GUTTER OF CURBS SHALL BE PITCHED TO CONFORM TO ADJACENT DRAINAGE PATTERNS FOR ASPHALT PAVING.
- ALL CURB FILLETS ARE 5' RADIUS UNLESS NOTED OTHERWISE. CURB SPOT ELEVATIONS ARE AT THE FLOW LINE, UNLESS NOTED OTHERWISE.
- THERE ARE NO KNOWN GRAVE SITES OR CEMETERIES ON THIS SITE.
- ALL DOWN SPOUT DRAINS SHALL BE CONVEYED TO THE SITE'S PRIVATE STORM DRAIN SYSTEM.
- THE CONTRACTOR SHALL PROVIDE A JOINT IN ALL SEWER MAINS WITHIN 2'-0" OF EXTERIOR MANHOLE WALLS.
- ALL PROPOSED LIGHTING SHALL COMPLY WITH ZONING REGULATIONS SECTION 134. EXISTING POLE LOCATIONS ARE SHOWN ON THESE PLANS. SEE ELECTRICAL PLAN TO BE SUBMITTED WITH ARCHITECTURAL DRAWINGS FOR POLE HEIGHTS, TYPES, WATTAGE, ETC.
- OTHER HOWARD COUNTY FILES RELATED TO THIS SITE:  
SDP 81-184, SDP 85-105, SDP 70-46.
- PROPOSED FLOOR ELEVATIONS FOR BUILDING ADDITIONS ARE REFERENCED FROM EXISTING FIELD RUN ELEVATION AT THE MAIN ENTRANCE, 578.18. CONTRACTOR TO VERIFY EXISTING FLOOR ELEVATION AT LOCATION OF ADDITION TO MATCH.
- LANDSCAPING IS REQUIRED ONLY FOR THE PROPOSED WESTERN PARKING LOT AND SHALL BE PROVIDED IN ACCORDANCE WITH SECTION 16.124 OF THE SUBDIVISION AND LAND DEVELOPMENT REGULATIONS. HOWEVER, NO LANDSCAPE SURETY WILL BE REQUIRED FOR THIS SITE PLAN SINCE THIS IS A BOARD OF EDUCATION PROJECT. FOREST CONSERVATION REQUIREMENTS SATISFIED BY GRADING PERMIT ISSUANCE 1957. (See Note 31)
- THE COORDINATES SHOWN HEREON ARE BASED UPON THE HOWARD COUNTY GEODETIC CONTROL WHICH IS BASED UPON THE MARYLAND STATE PLANE COORDINATE SYSTEM. HOWARD COUNTY MONUMENT Nos. 22A2 & 22A4 WERE USED FOR THIS PROJECT.
- THERE IS NO FLOODPLAIN WITHIN THESE PLAN LIMITS.
- THERE ARE NO WETLANDS ON THIS SITE.
- NO TRAFFIC STUDY IS REQUIRED FOR THIS PROJECT.
- THE PROPERTY LINES SHOWN HEREON ARE BASED SOLELY ON A COMPILATION OF THE DEEDS WHICH WAS ROUGHLY ALIGNED ONTO PHYSICAL FEATURES (CENTERLINE OF BURNT WOODS ROAD, EDGE OF SHARP ROAD, ETC.) NO BOUNDARY SURVEY WAS PERFORMED. THE PROPERTY LINES SHOWN HEREON ARE VERY APPROXIMATE AND MAY NOT BE RELIED UPON IN ANY WAY AS A TRUE REPRESENTATION OF THE ACTUAL BOUNDARY.
- THIS PROJECT IS EXEMPT FROM THE HOWARD COUNTY FOREST CONSERVATION REQUIREMENTS. GRADING PERMITS WERE ISSUED PRIOR TO JANUARY 1, 1993. ADDITIONALLY NO FOREST IS BEING DISTURBED WITH THESE BUILDING ADDITIONS.

34. For construction details and specifications not shown on these plans, see "Howard County Vol. 13 Design Manual" or the "Maryland 31A Book of Standards, Highway and Incidental Structures".

# ADDITION TO GLENELG HIGH SCHOOL FOR HOWARD COUNTY BOARD OF EDUCATION



**SHEET INDEX**

NO.	DESCRIPTION
1	Cover Sheet
2	Site Development Plan/Landscape Plan
3	Site Details & Utility Profiles/Landscape Details
4	Drainage Area Maps, Site and SMM Details
5	Sediment Control Plan
6	Sediment Control Notes & Details
7	Pond Specifications, S.W.M., Details & Soil Borings

**BENCHMARKS**

	NORTH	EAST	ELEVATION
28	585952.443	1311372.670	571.06
31	585841.491	1312171.996	569.02

**SHEET INDEX CONTINUED:**

NO.	DESCRIPTION
8	DEMOLITION PLAN
9	SITE DEVELOPMENT PLAN AND SEDIMENT EROSION CONTROL PLAN
10	PORTAL #18287
11	SEEDING CONTROL PLAN, EROSION CONTROL PROFILES & STRUCTURES SCHEDULE

**SITE ANALYSIS**

- General Site Data
    - Zoning: RR-DEO
    - Proposed additions to existing high school, auditorium addition with canopy and front roadway, media center addition, cafeteria and administration expansion, classroom and building additions, canopy addition, new parking lot addition with proposed entrance way from Sharp Road, add additional parking spaces to existing western parking area and restripe eastern parking lot.
    - Private Water & Private Sewer
  - Area Tabulation
    - Total Site Area: 40.94 ac.
    - Limit of Disturbed Area by this SDP: 220,561 sq. ft. = 5.27 ac.
    - Building Coverage of Site
      - Existing: 250,252 sq. ft. = 5.71 ac.
      - Proposed by this SDP: 9,283 sq. ft. = 0.22 ac. (incl. canopies)
      - Total: 259,535 sq. ft. = 5.96 ac. (14.56%)
    - Paved Surfaces
      - Existing: 286,619 sq. ft. = 6.58 ac.
      - Proposed by this SDP: 25,226 sq. ft. = 0.58 ac.
      - Removed by this site plan: 9,555 sq. ft. = 0.45 ac.
      - Total: 6.71 ac. (16.38%)
    - Total Green Area: 28.27 ac. (69.05%)
  - Parking Space Data
    - Number of Automobile Parking Spaces required by Zoning Regulations: N/A
    - Number of Existing spaces: 370 (includes 3 handicapped spaces) (existing and after restriping of eastern lot)
    - Net number of additional proposed spaces: 85
    - Total spaces on site: 456 (includes 3 handicapped spaces)
- Note: The number of parking spaces provided is to meet the requirement of the Board of Education.

36. COUNCIL RESOLUTION NUMBER OR 93-2021 WAS APPROVED ON JULY 23, 2001 ALLOWING THE EXTENSION OF THE NEW AUDITORIUM AND ACCESS DRIVE AS SHOWN ON SHEET 2 OF 7 THESE PLANS.

35. This plan conforms with the 4th Edition of the Howard County Subdivision and Land Development Regulations.

APPROVED:	FOR PRIVATE WATER & SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT
<i>Penney Bowman</i> County Health Officer	Date: 2/26/02
APPROVED:	HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING
<i>Joseph T. Foster</i> Director	Date: 2/27/02
<i>Cinda Armita</i> Chief, Division of Land Development	Date: 2/27/02
<i>Chris Williams</i> Chief, Development Engineering Division	Date: 2/7/02

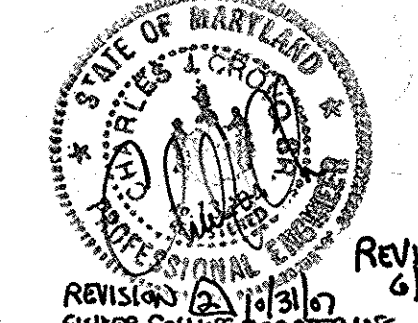
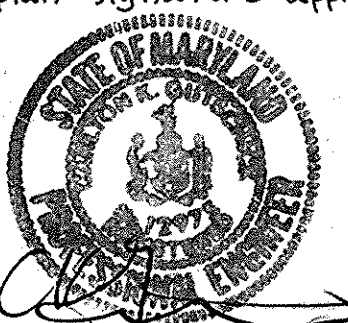
**PHASING NOTES**

PHASE	WORK ITEMS	PRE-REQUISITE APPROVALS
PHASE I	WEST PARKING LOT & WEST SMM FACILITY DRIVEWAY TO SHARP ROAD	MAY PROCEED UPON SIGNATURE APPROVAL OF THIS SDP AND WHEN THE HEALTH DEPT. APPROVES THE ABANDONMENT OF WEST SEPTIC SYSTEM.
PHASE II	AUDITORIUM ADDITION & CANOPY ADMINISTRATION ADDITION & CANOPY MEDIA CENTER ADDITION DRIVEWAY REALIGNMENT IN FRONT OF AUDITORIUM	MAY PROCEED UPON SIGNATURE APPROVAL ON THIS SDP, INCLUDING TEMPORARY REPAIR TO CURRENT EAST SEPTIC SYSTEM.
PHASE III	CAFETERIA ADDITION CURB SHIFT ALONG CAFETERIA ADDITION CLASSROOM ADDITION RESTRIPING OF EAST LOT EAST SMM FACILITY	MAY PROCEED WHEN THE HEALTH DEPT. APPROVES A REVISED (IMPROVED) EAST SANITARY SEWER OR SEPTIC SYSTEM.

Note: In accordance with Section 16.156 (m)(i) of the Howard County Subdivision and Land Regulations, building permits must be filed for all phasing within one year of site development plan signature approval.

SCALE: 1" = 100'

**GENERAL NOTE:**  
The Building Permit for the new Building addition, must be applied for with the Department of Inspections, Licenses and Permits within one year from the Approval Date of the Red-line Revisions.



**GLW GUTSCHICK LITTLE & WEBER, P.A.**  
CIVIL ENGINEERS, LAND SURVEYORS, LAND PLANNERS, LANDSCAPE ARCHITECTS  
3609 NATIONAL DRIVE - SUITE 250 - BURTONSVILLE OFFICE PARK  
BURTONSVILLE, MARYLAND 20866  
TEL: 301-421-4024 BALT: 410-880-1820 DC/VA: 301-599-2524 FAX: 301-421-4186

DATE	REVISION	BY	APP'R.
8/7/02	Revise parking, bus loop and handicap spaces. Revised		
10-31-07	ADDED BUILDING ADDITION, ADDED PARKING & CHANGE SHEET NUMBERS/Drama Suite		
6/16/14	ADDED NEW CONCEPTION STAND		

PREPARED FOR:  
HOWARD COUNTY BOARD OF EDUCATION  
10910 ROUTE 108  
ELICOTT CITY, MD. 21043  
ATTN: CATHEEN CONLEY YOUNG  
PHONE: (410) 313 - 6704

**COVER SHEET**  
**GLENELG HIGH SCHOOL**  
PARCELS 121, 11 & 169

SCALE	ZONING	G. L. W. FILE No.
AS SHOWN	RR-DEO	99049
DATE	TAX MAP - GRID	SHEET
1/3/02	21	1 OF 11

ELECTION DISTRICT No. 4  
HOWARD COUNTY, MARYLAND

**ADDRESS CHART**

MAIN ENTRANCE:  
14025 BURNT WOODS ROAD

**PERMIT INFORMATION**

SUBDIVISION NAME	SECTION/AREA	PARCEL #
GLENELG HIGH SCHOOL		121, 11, 169
PLAT # OR L.P. BLOCK	ZONE	TAX
462/750	RR-DEO	21
265/427		
1015/484		
ELECT. DISTRICT	GENSUS TRACT	
4	6040	
WATER CODE	SEWER CODE	
PRIVATE		

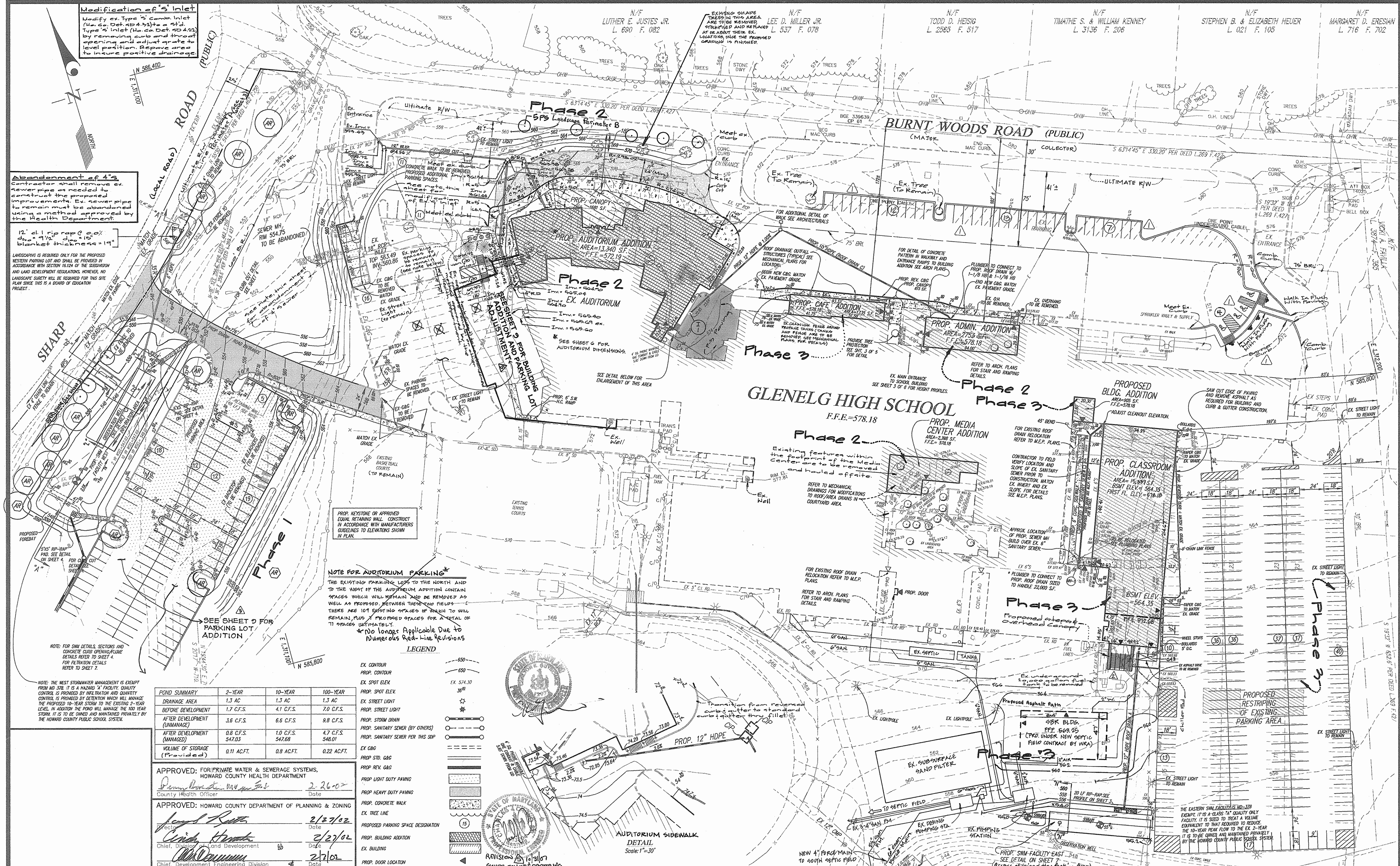
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**Modification of 3' Inlet**  
 Modify ex. Type 3' concrete inlet (H.C. Det. 4-33) to a 3' Type 2' inlet (H.C. Det. 4-33) by removing curb and throat opening and adjust grate to level position. Repave area to insure positive drainage.

**Abandonment of 4" sewer pipe**  
 Abandonment of 4" sewer pipe as needed to construct the proposed improvements. Ex. sewer pipe to remain must be abandoned using a method approved by the Health Department.

12" dia. 1' rip rap @ 2% slope = 17' dia = 19' blanket thickness = 19"

LANDSCAPING IS REQUIRED ONLY FOR THE PROPOSED WESTERN PARKING LOT AND SHALL BE PROVIDED IN ACCORDANCE WITH SECTION 16.24 OF THE SUBDIVISION AND LAND DEVELOPMENT REGULATIONS. HOWEVER, NO LANDSCAPE SURVEY WILL BE REQUIRED FOR THIS SITE PLAN SINCE THIS IS A BOARD OF EDUCATION PROJECT.



**NOTE FOR AUDITORIUM PACKING**  
 THE EXISTING PARKING LOTS TO THE NORTH AND TO THE WEST OF THE AUDITORIUM ADDITION CONTAIN SPACES WHICH WILL REMAIN AND BE REMOVED AS WELL AS PROPOSED BETWEEN THESE TWO FIELDS. TAKE CARE OF EXISTING SPACES OF WHICH TO WILL REMAIN, PLUS 7 PROPOSED SPACES FOR A TOTAL OF 71 SPACES ULTIMATELY.  
 \*No longer Applicable Due to Numerous Red-Line Revisions

**LEGEND**

- EX. CONTOUR
- PROP. CONTOUR
- EX. SPOT ELEV.
- PROP. SPOT ELEV.
- EX. STREET LIGHT
- PROP. STREET LIGHT
- PROP. STORM DRAIN
- PROP. SANITARY SEWER (BY OTHERS)
- PROP. SANITARY SEWER PER THIS SEP
- EX. C&G
- PROP. STD. G&G
- PROP. REV. G&G
- PROP. LIGHT DUTY PAVING
- PROP. HEAVY DUTY PAVING
- PROP. CONCRETE WALK
- EX. TREE LINE
- PROPOSED PARKING SPACE DESIGNATION
- PROP. BUILDING ADDITION
- EX. BUILDING
- PROP. DOOR LOCATION

POND SUMMARY	2-YEAR	10-YEAR	100-YEAR
DRAINAGE AREA	1.3 AC	1.3 AC	1.3 AC
BEFORE DEVELOPMENT	1.7 C.F.S.	4.1 C.F.S.	7.0 C.F.S.
AFTER DEVELOPMENT (UNMANAGED)	3.6 C.F.S.	6.6 C.F.S.	9.8 C.F.S.
AFTER DEVELOPMENT (MANAGED)	0.8 C.F.S.	1.0 C.F.S.	4.7 C.F.S.
VOLUME OF STORAGE (Provided)	0.11 ACFT.	0.8 ACFT.	0.22 ACFT.

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING

*[Signature]* 2/27/02  
 Date

*[Signature]* 2/27/02  
 Date

*[Signature]* 2/27/02  
 Date

DATE	REVISION
10-21-07	ADD BUILDING AND PARKING ADDITION. CHANGE SHEET NUMBERS (Drama Suite)
08-08-09	REV. EX. BUILDING AND PARKING ADDITION. CHANGE SHEET NUMBERS (Drama Suite)
08-18-09	REV. EX. BUILDING AND PARKING ADDITION. CHANGE SHEET NUMBERS (Drama Suite)
3/12/04	REV. CLASSROOM ADDITION (SEE SWIM LOCATION ADDED SEPTIC INTO (BY OTHERS))
8/7/02	SEPARATED SWIM FROM EAST ENTRANCE/REVISED FRONT PARKING AREA
3-28-01	SEPTIC TANK LOCATION

**GLW GUTSCHICK LITTLE & WEBER, P.A.**  
 CIVIL ENGINEERS, LAND SURVEYORS, LAND PLANNERS, LANDSCAPE ARCHITECTS  
 3909 NATIONAL DRIVE - SUITE 250 - BURTONSVILLE OFFICE PARK  
 BURTONSVILLE, MARYLAND 20866  
 TEL: 301-421-4024 FAX: 301-889-1020 DC/VA: 301-889-2524 FAX: 301-421-4186

PREPARED FOR:  
 HOWARD COUNTY BOARD OF EDUCATION  
 10910 ROUTE 108  
 ELLICOTT CITY, MD. 21043  
 ATTN: CATHLEEN CONLEY YOUNG  
 PHONE: (410) 313 - 6704

**SITE DEVELOPMENT PLAN**

**GLENELG HIGH SCHOOL**  
 PARCELS 121, 11 & 169

ELECTION DISTRICT No. 4

HOWARD COUNTY, MARYLAND

SCALE	ZONING	G. L. W. FILE No.
1"=40'	RR-DEO	99049
DATE	TAX MAP - GRID	SHEET
1/3/02	21	2 OF 11

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**R-4000 Series Bolted Transverse Drainage Structures**

Heavy Duty  
Forming: Not type surface showing Type A frame and Type C grate.  
Standard frame and cover sections of this type are bolted and constructed to the standard height of 18" on page 284. For R-4000 series with Type C grate.

When these drainage systems are installed, they are approved assemblies. AT NO TIME SHOULD THE UNITS BE OBSOLETE DURING INSTALLATION.

Grate	Frame	Grate	Frame	Grate	Frame
1	2	3	4	5	6
R-4000-1	1	1	1	1	1
R-4000-2	1	1	1	1	1
R-4000-3	1	1	1	1	1
R-4000-4	1	1	1	1	1
R-4000-5	1	1	1	1	1
R-4000-6	1	1	1	1	1
R-4000-7	1	1	1	1	1
R-4000-8	1	1	1	1	1
R-4000-9	1	1	1	1	1
R-4000-10	1	1	1	1	1
R-4000-11	1	1	1	1	1
R-4000-12	1	1	1	1	1
R-4000-13	1	1	1	1	1
R-4000-14	1	1	1	1	1
R-4000-15	1	1	1	1	1
R-4000-16	1	1	1	1	1
R-4000-17	1	1	1	1	1
R-4000-18	1	1	1	1	1
R-4000-19	1	1	1	1	1
R-4000-20	1	1	1	1	1
R-4000-21	1	1	1	1	1
R-4000-22	1	1	1	1	1
R-4000-23	1	1	1	1	1
R-4000-24	1	1	1	1	1
R-4000-25	1	1	1	1	1
R-4000-26	1	1	1	1	1
R-4000-27	1	1	1	1	1
R-4000-28	1	1	1	1	1
R-4000-29	1	1	1	1	1
R-4000-30	1	1	1	1	1
R-4000-31	1	1	1	1	1
R-4000-32	1	1	1	1	1
R-4000-33	1	1	1	1	1
R-4000-34	1	1	1	1	1
R-4000-35	1	1	1	1	1
R-4000-36	1	1	1	1	1
R-4000-37	1	1	1	1	1
R-4000-38	1	1	1	1	1
R-4000-39	1	1	1	1	1
R-4000-40	1	1	1	1	1
R-4000-41	1	1	1	1	1
R-4000-42	1	1	1	1	1
R-4000-43	1	1	1	1	1
R-4000-44	1	1	1	1	1
R-4000-45	1	1	1	1	1
R-4000-46	1	1	1	1	1
R-4000-47	1	1	1	1	1
R-4000-48	1	1	1	1	1
R-4000-49	1	1	1	1	1
R-4000-50	1	1	1	1	1

The following drawing illustrates basic dimensions (18" and 24" deep) and cover types (18" and 24" deep) for these drainage structures. The cover is shown in the open position. The cover is shown in the closed position. The cover is shown in the open position. The cover is shown in the closed position.

NEENAH INC. 283

**NOTE: When specifying or ordering grates, please refer to "CHOOSE THE PROPER INLET GRATE" on pages 108 and 109.**

**Read Carefully Before Ordering**

The various standard trench drain covers have been designed to be used in a variety of applications. It is important to specify the correct cover for the application. The cover will be stamped with the manufacturer's name and the model number.

**Standard Cover Types**

1. **Standard Cover Frame**  
This cover is designed for use in applications where the cover is to be used in a trench. It is made of heavy duty steel and is available in 18" and 24" deep.

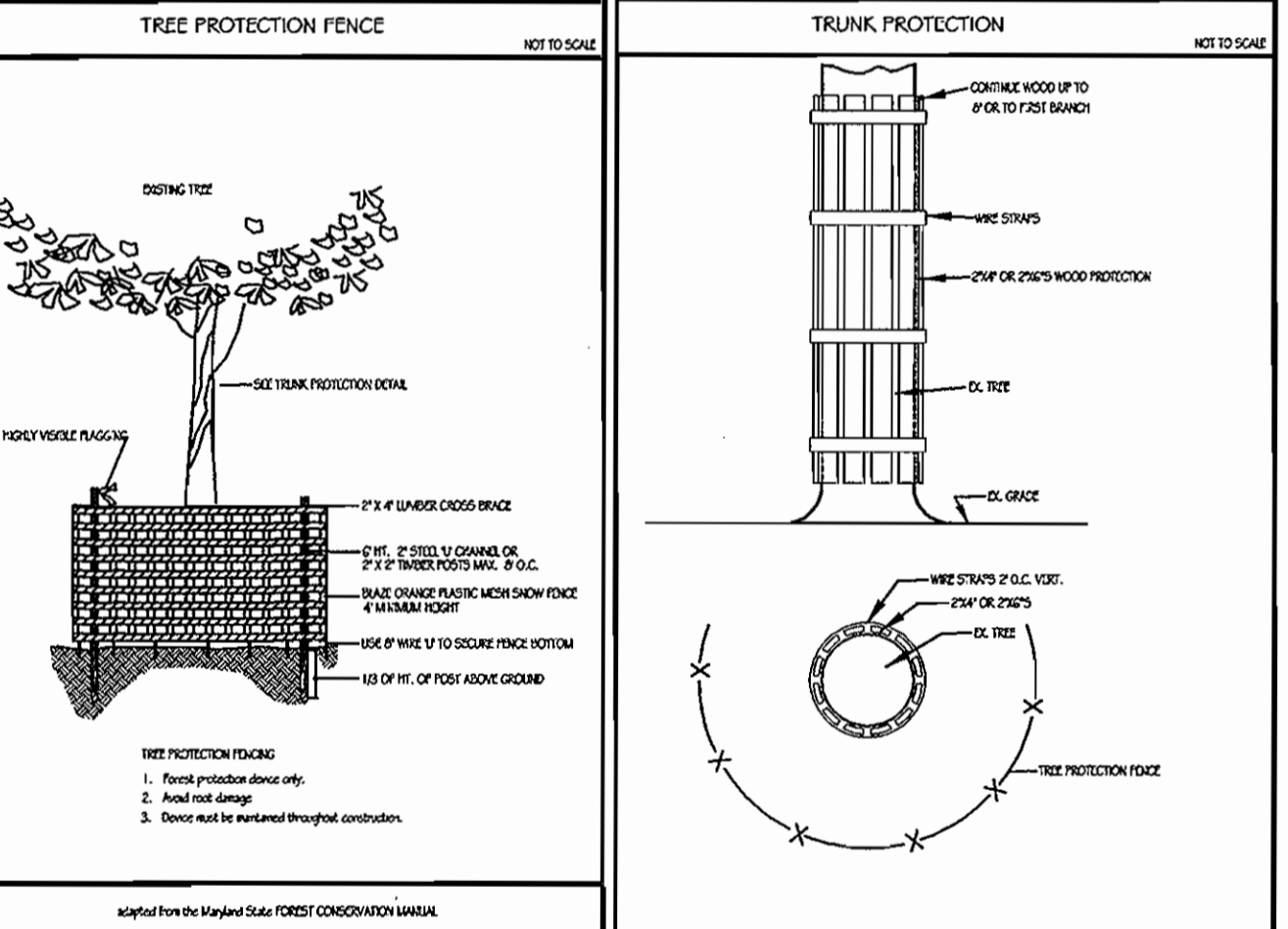
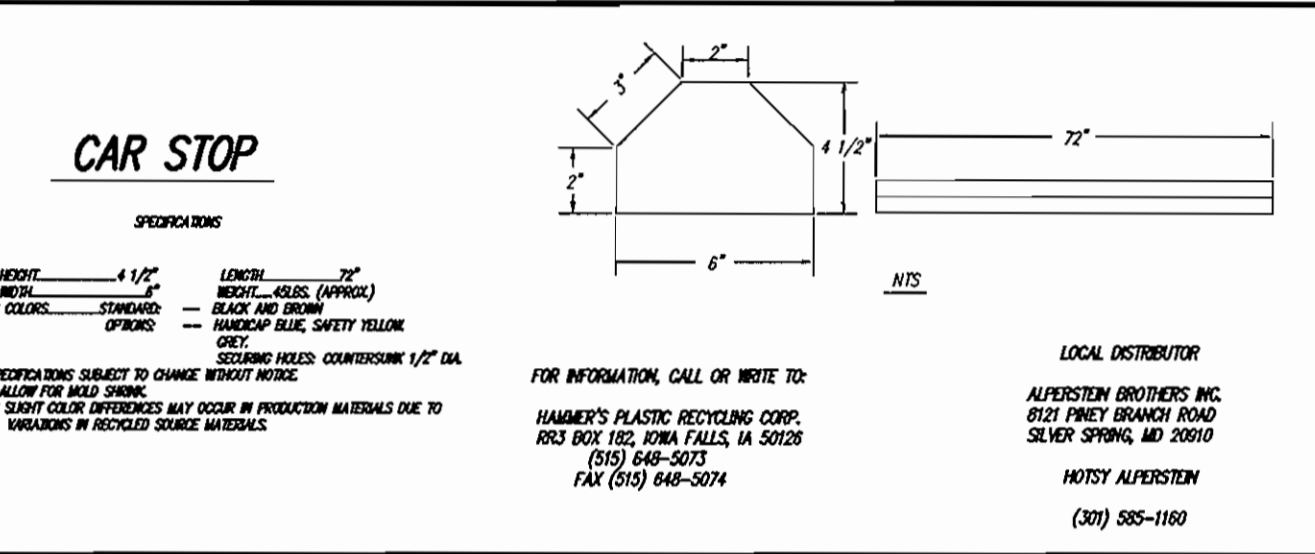
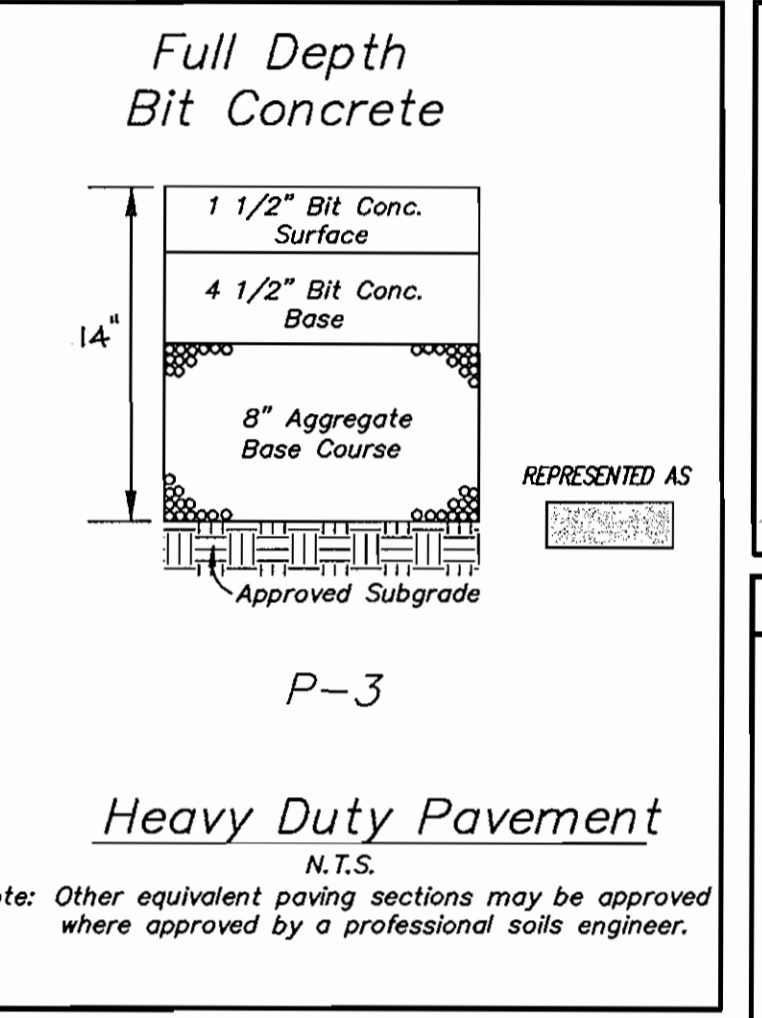
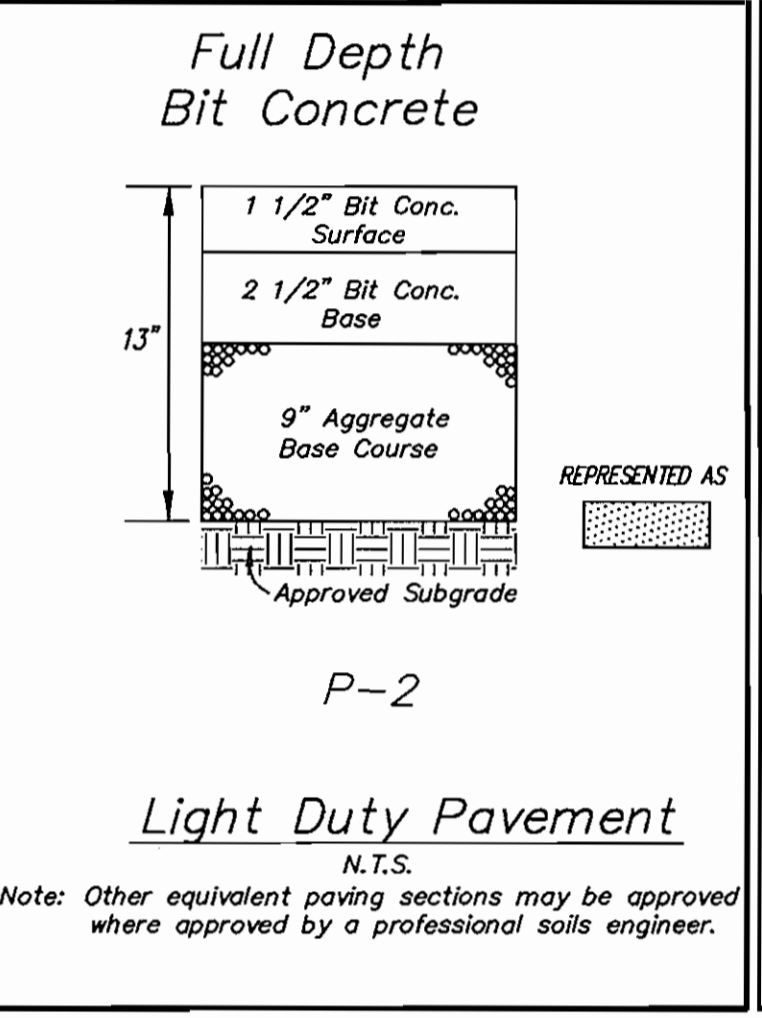
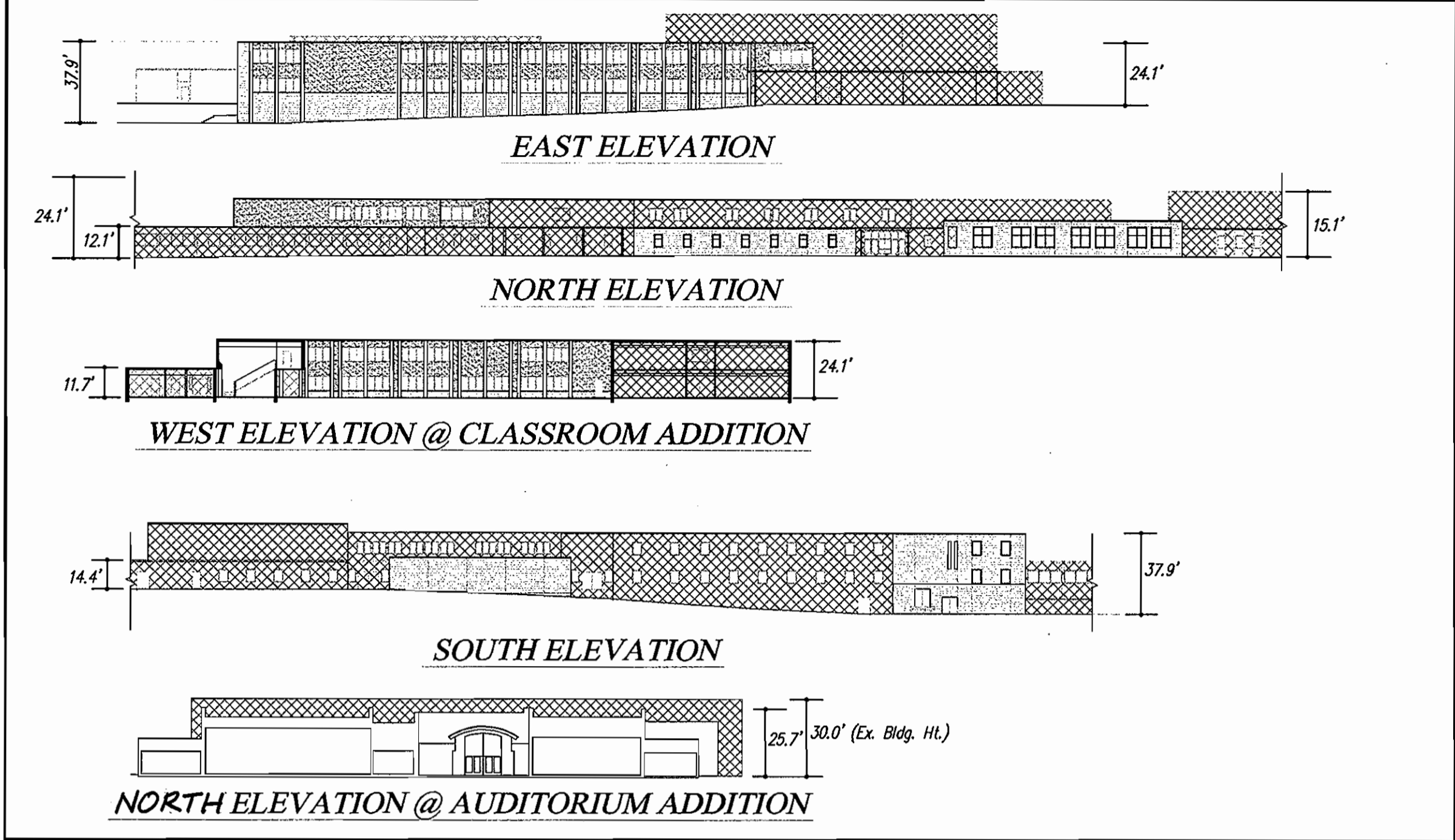
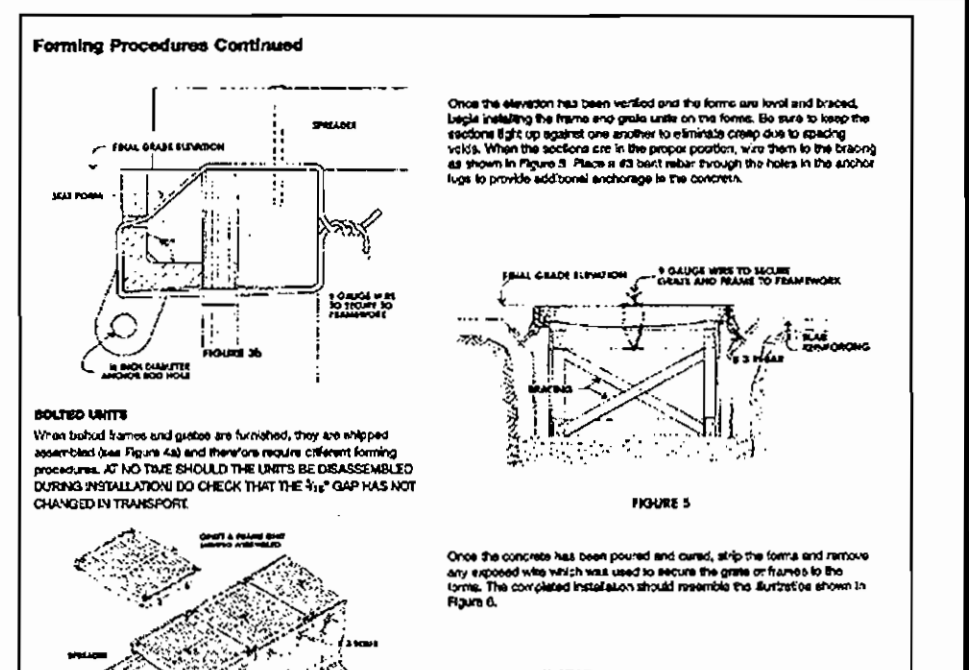
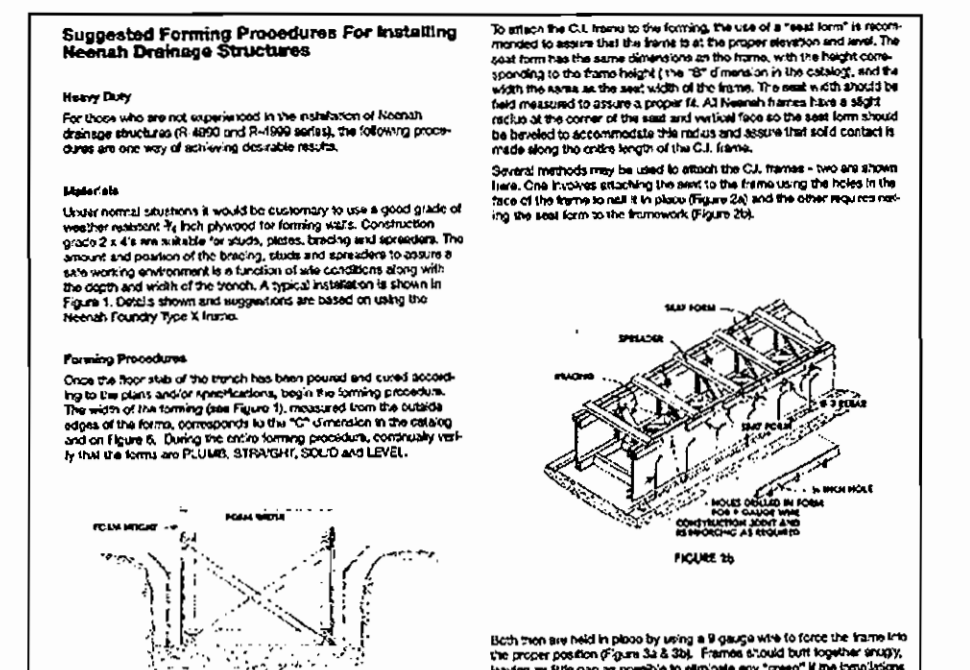
2. **Standard Cover Frame with Grate**  
This cover is designed for use in applications where the cover is to be used in a trench. It is made of heavy duty steel and is available in 18" and 24" deep.

3. **Standard Cover Frame with Grate and Gutter**  
This cover is designed for use in applications where the cover is to be used in a trench. It is made of heavy duty steel and is available in 18" and 24" deep.

4. **Standard Cover Frame with Grate and Gutter and Sill**  
This cover is designed for use in applications where the cover is to be used in a trench. It is made of heavy duty steel and is available in 18" and 24" deep.

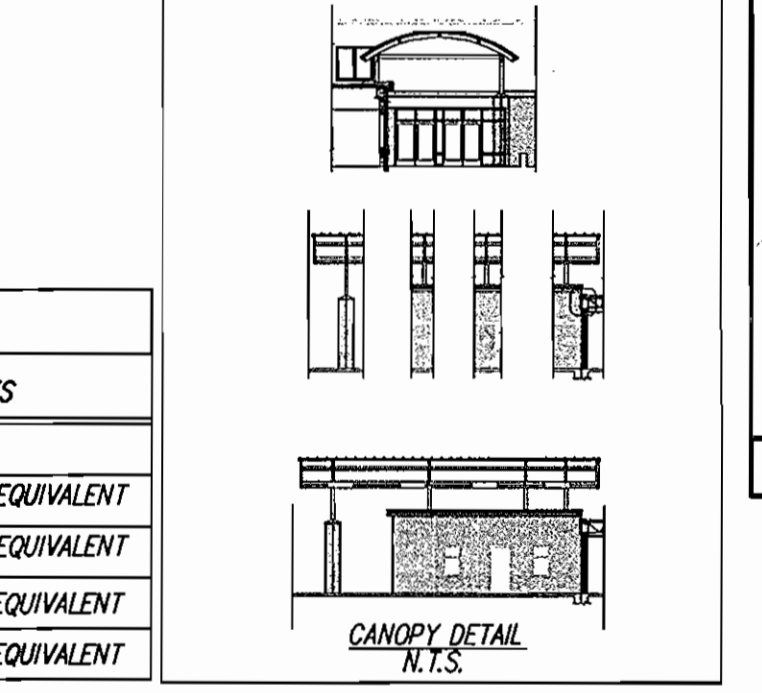
5. **Standard Cover Frame with Grate and Gutter and Sill and Seal**  
This cover is designed for use in applications where the cover is to be used in a trench. It is made of heavy duty steel and is available in 18" and 24" deep.

NEENAH INC. 283



**BENDS**

SIZE	TYPE	QUANTITY
12" HDPE	1/8 HORIZONTAL BEND	1



**SCHEDULE A PERIMETER LANDSCAPE EDGE**

CATEGORY	ADJACENT TO SHARP ROAD	ADJACENT TO BROADWAY ROAD
	Per. A	Per. B
LANDSCAPE TYPE	N/A	N/A
LINEAR FEET OF ROWWAY FRONTAGE/PERIMETER	185'	210'
CREDIT FOR EXISTING VEGETATION (YES, NO, LINEAR FEET) (DESCRIBE BELOW IF NEEDED)	---	4**
CREDIT FOR WALL, FENCE OR BERM (YES, NO, LINEAR FEET) (DESCRIBE BELOW IF NEEDED)	---	---
NUMBER OF PLANTS PROVIDED		
SHADE TREES	3	4**
EMERSON TREES	NONE	NONE
SHRUBS	NONE	NONE

**SCHEDULE B STORMWATER MANAGEMENT AREA LANDSCAPING**

LINEAR FEET OF PERIMETER	NUMBER OF TREES REQUIRED
220	4
	EMERSON TREES
	6
	EMERSON TREES
	NONE
	CREDIT FOR OTHER LANDSCAPING (NO, YES AND #)
	NONE
	NUMBER OF TREES PROVIDED
	SHADE TREES (ST)
	EMERSON TREES (ET)
	OTHER TREES (2:1 SUBSTITUTION)
	5 (1 SUB. FOR 2 ET)
	4 (2 SUB. FOR 1 ST)
	NA

**SCHEDULE C NEW BEST PAVING LOT INTERNAL LANDSCAPING**

NUMBER OF PARKING SPACES	NUMBER OF TREES REQUIRED @ 1:20
75 CAR SPACES	4
	NUMBER OF TREES PROVIDED
	SHADE TREES
	EMERSON TREES
	OTHER TREES (2:1 SUBSTITUTION)
	4
	NA

**Plant List**

Qmnt.	Symbol	Name	Size
12	(Symbol)	Acer rubrum/Oakleaf Glory	2 1/2"-3" cal. (B&B)
7	(Symbol)	Pinus Strobus/White Pine	6-8' ht

COMMENTS: A 1' TYPE 'B' BUFFER IS REQUIRED FOR SIMI FACILITY ADJACENT TO R/W. HOWEVER, THE EXISTING FACILITY IN THIS AREA IS NOT BEING EXPANDED; THEREFORE, NO LANDSCAPING IS REQUIRED ALONG THE 195' OF PERIMETER. THE TYPE 'A' BUFFER SHOWN IS STRICTLY VOLUNTARY.

**STRUCTURE SCHEDULE**

No.	TYPE	WIDTH-DIAM.	TOP ELEVATION UPPER	TOP ELEVATION LOWER	INV. ELEVATION UPPER	INV. ELEVATION LOWER	STD. DETAIL	REMARKS
EX. 8	EX. TYPE S COMBO INLET	---	EX 563.49	---	---	EX 560.86	EX SD 4.32	MODIFY TO REMOVE CURB & THROAT

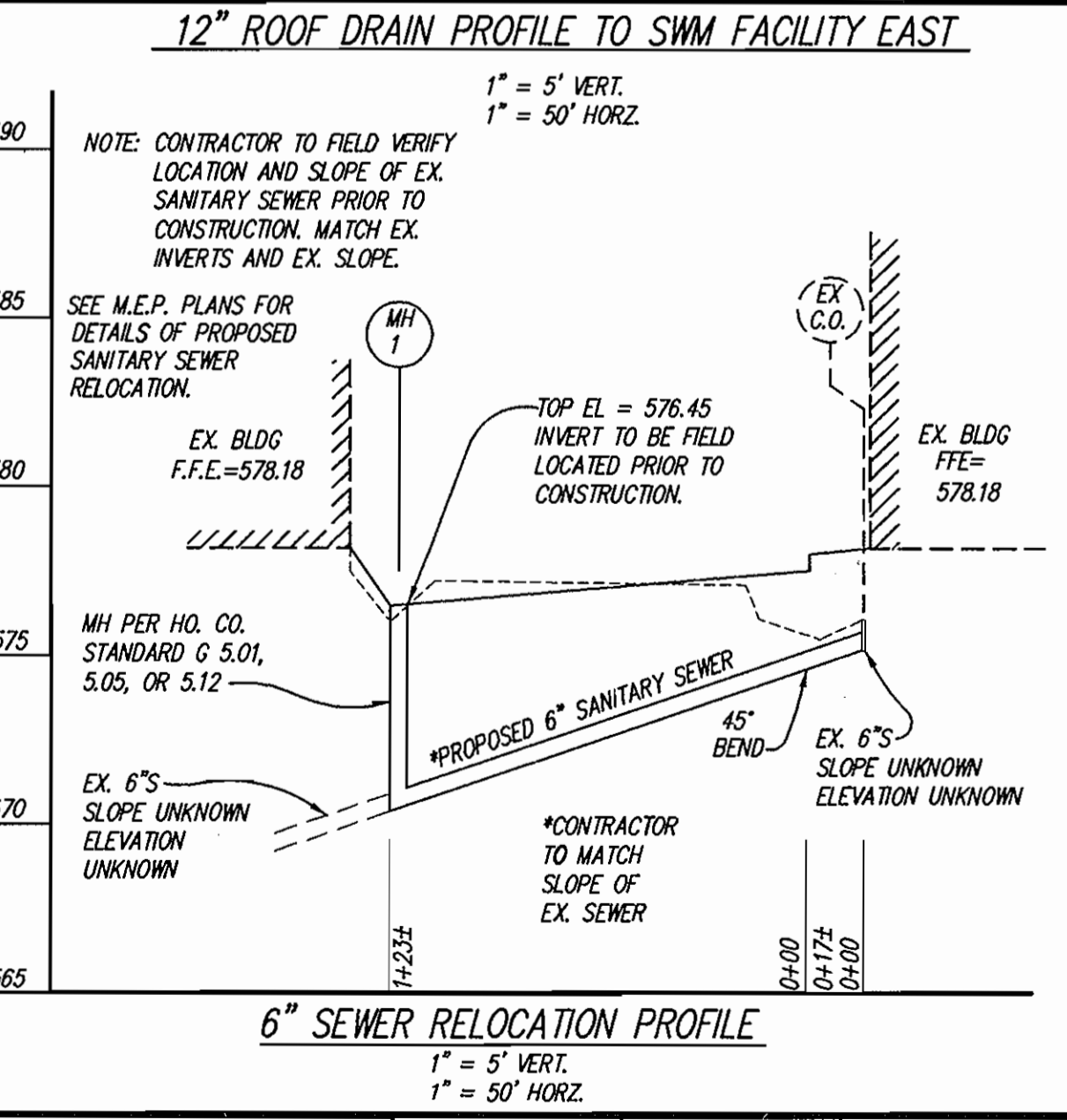
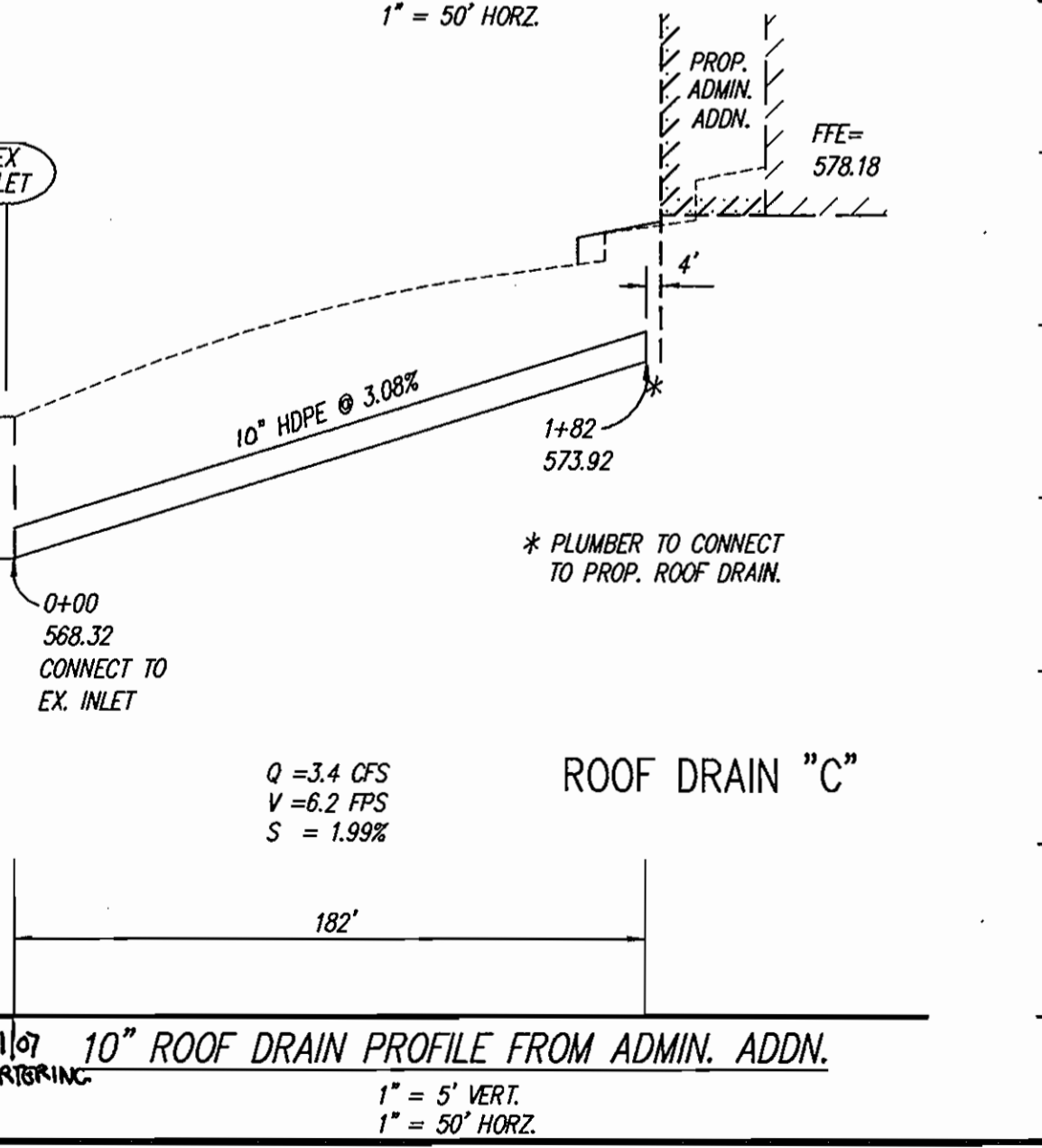
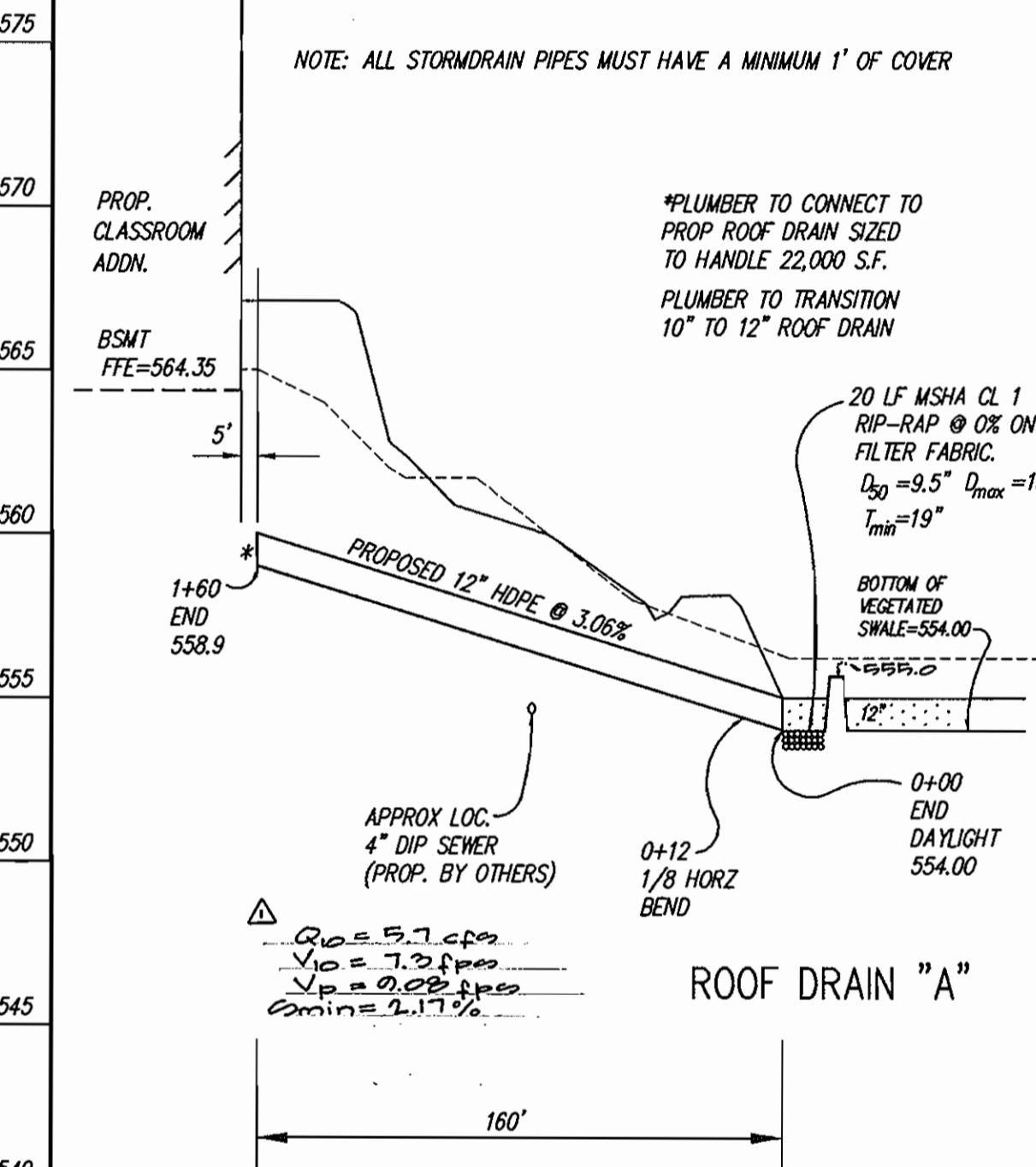
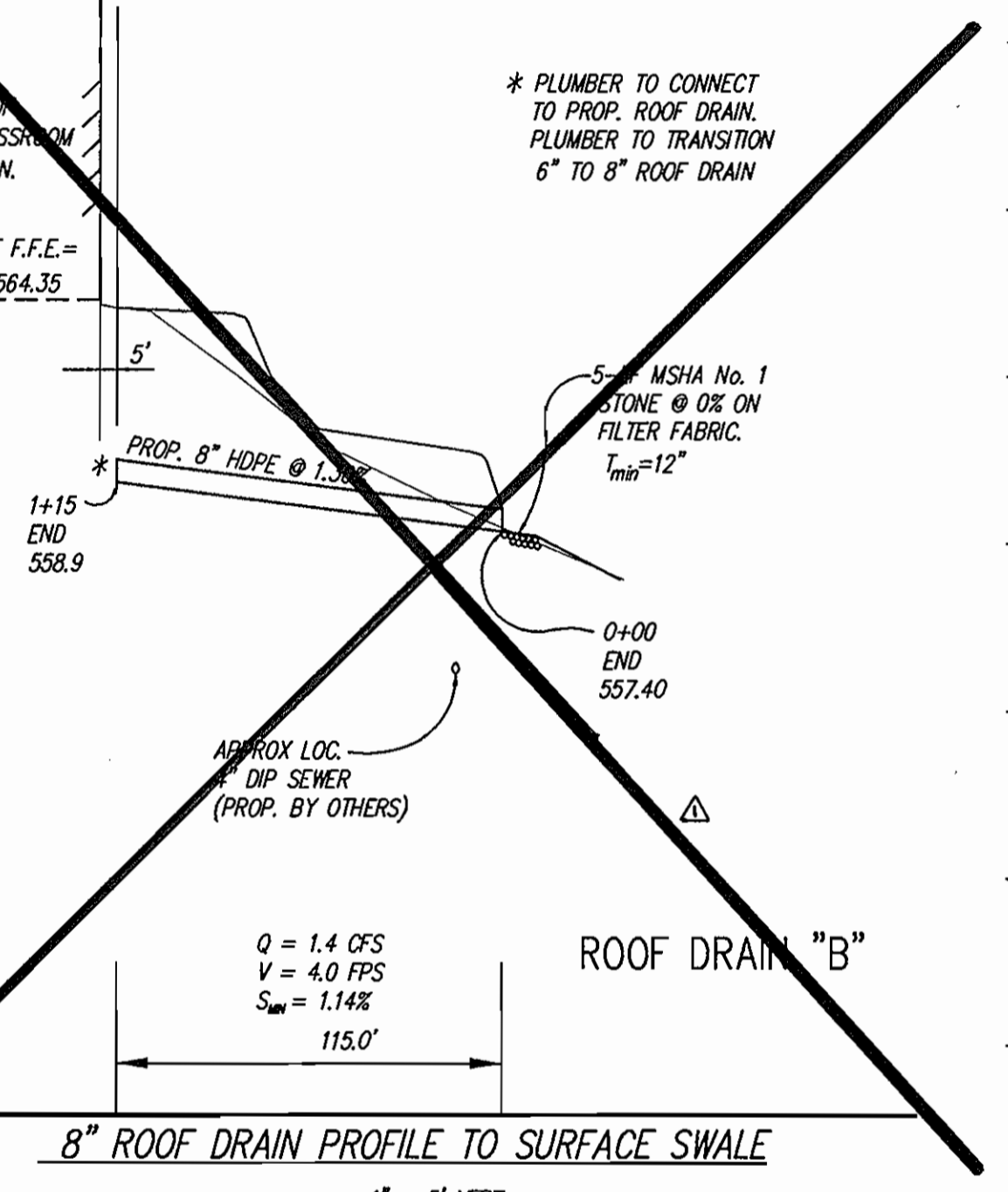
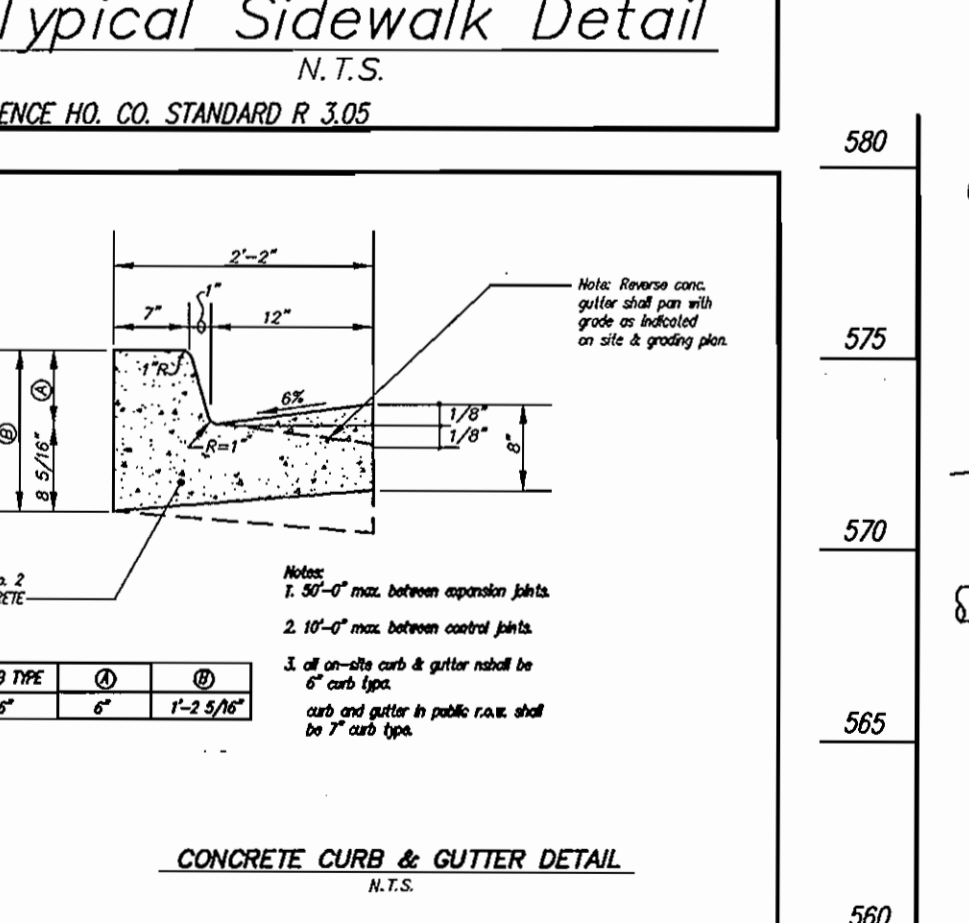
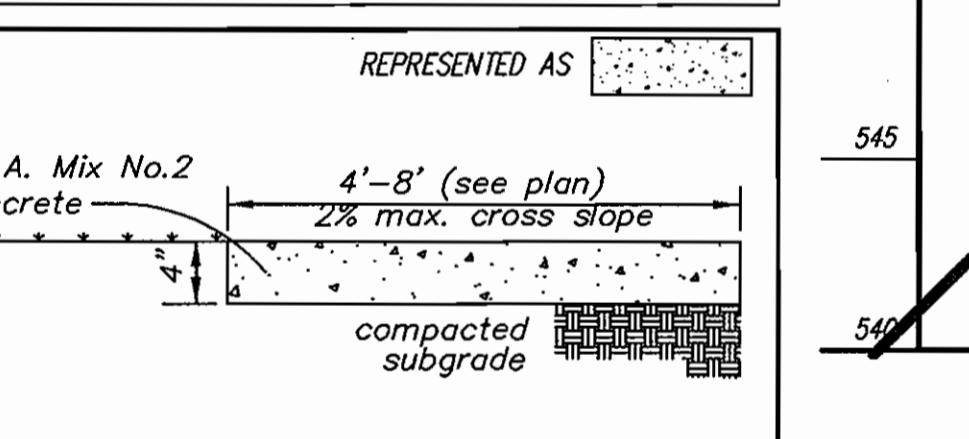
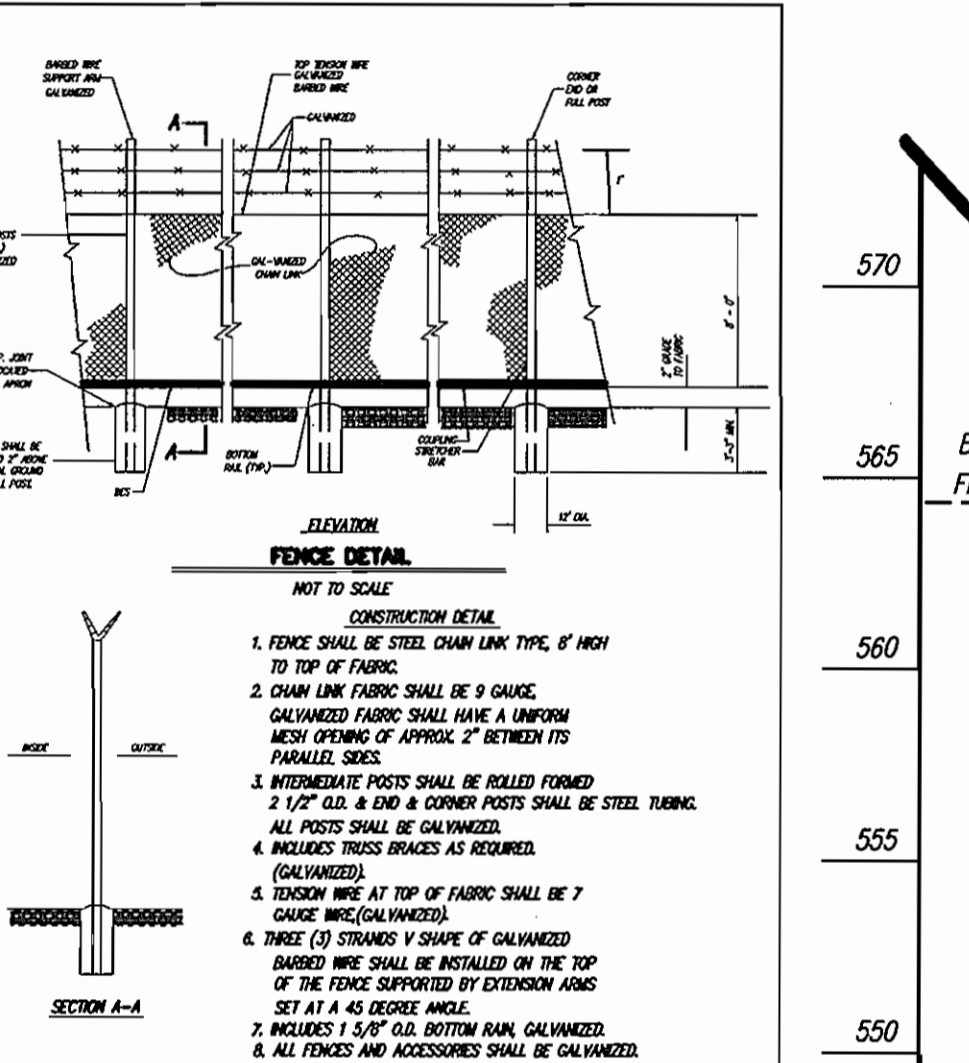
**APPROVED: FOR PRIVATE WATER & SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT**

*Denny Boudreau* County Health Officer Date: 2-26-02

**APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING**

*Paul Smith* Date: 2/27/02  
*Cindy Hantz* Date: 2/27/02  
*Chris Williams* Date: 2/27/02

Chief, Development Engineering Division



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

**CHANGE SHEET NUMBERS**

DATE	REVISION	BY	APPR.
10-31-07	CHANGE SHEET NUMBERS		
11-05-07	Rev. notes drain A & B to accommodate imperious are generated by GIS planer 07P-02-102		

**PREPARED FOR:**  
HOWARD COUNTY BOARD OF EDUCATION  
10910 ROUTE 108  
ELLCOTT CITY, MD. 21043  
ATTN: CATHEEN CONLEY YOUNG  
PHONE: (410) 313 - 6704

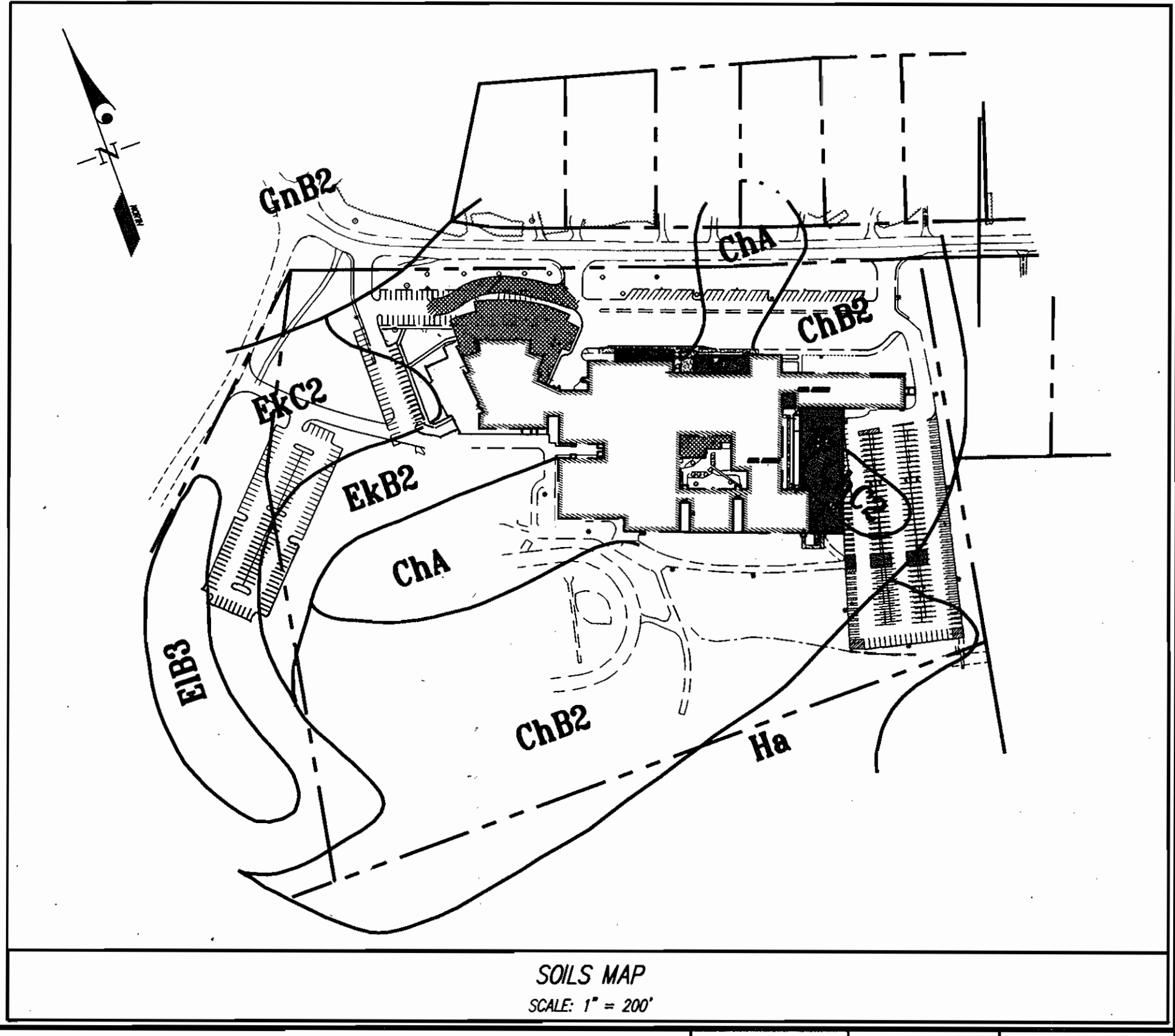
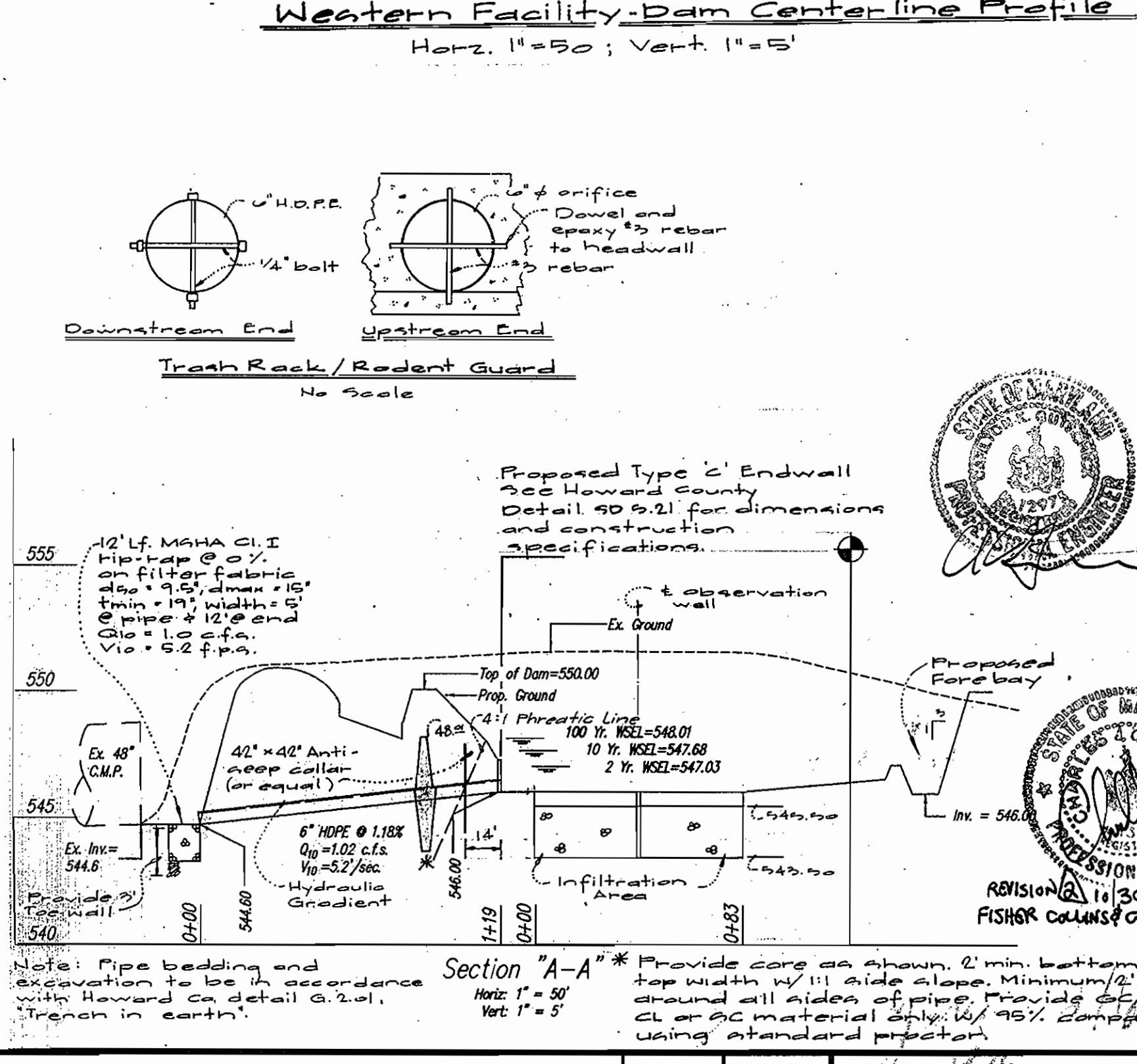
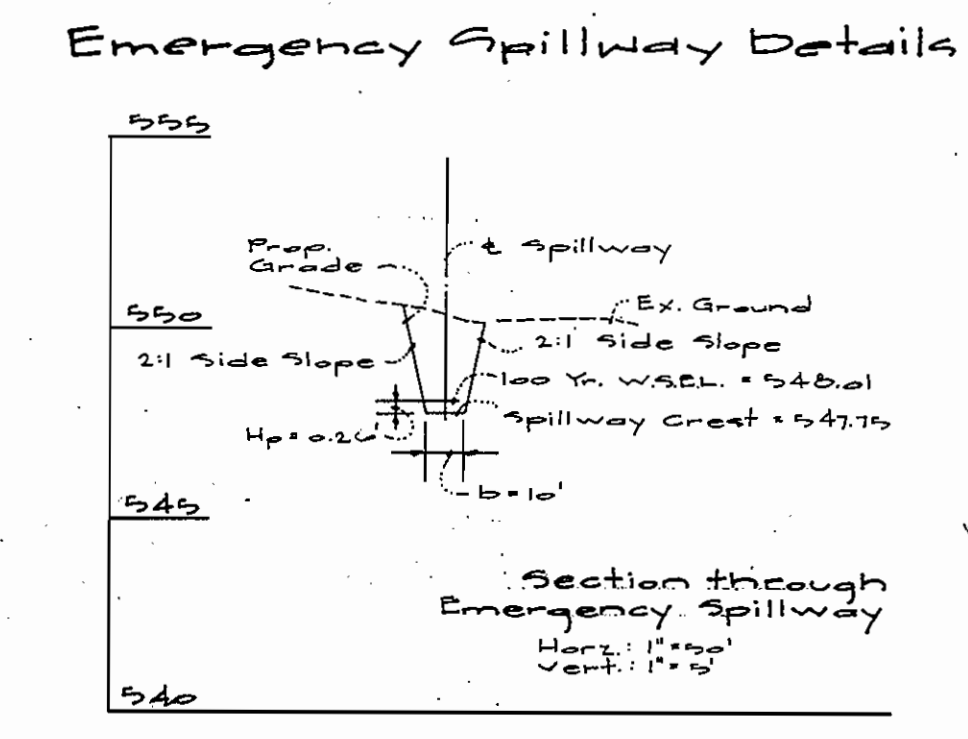
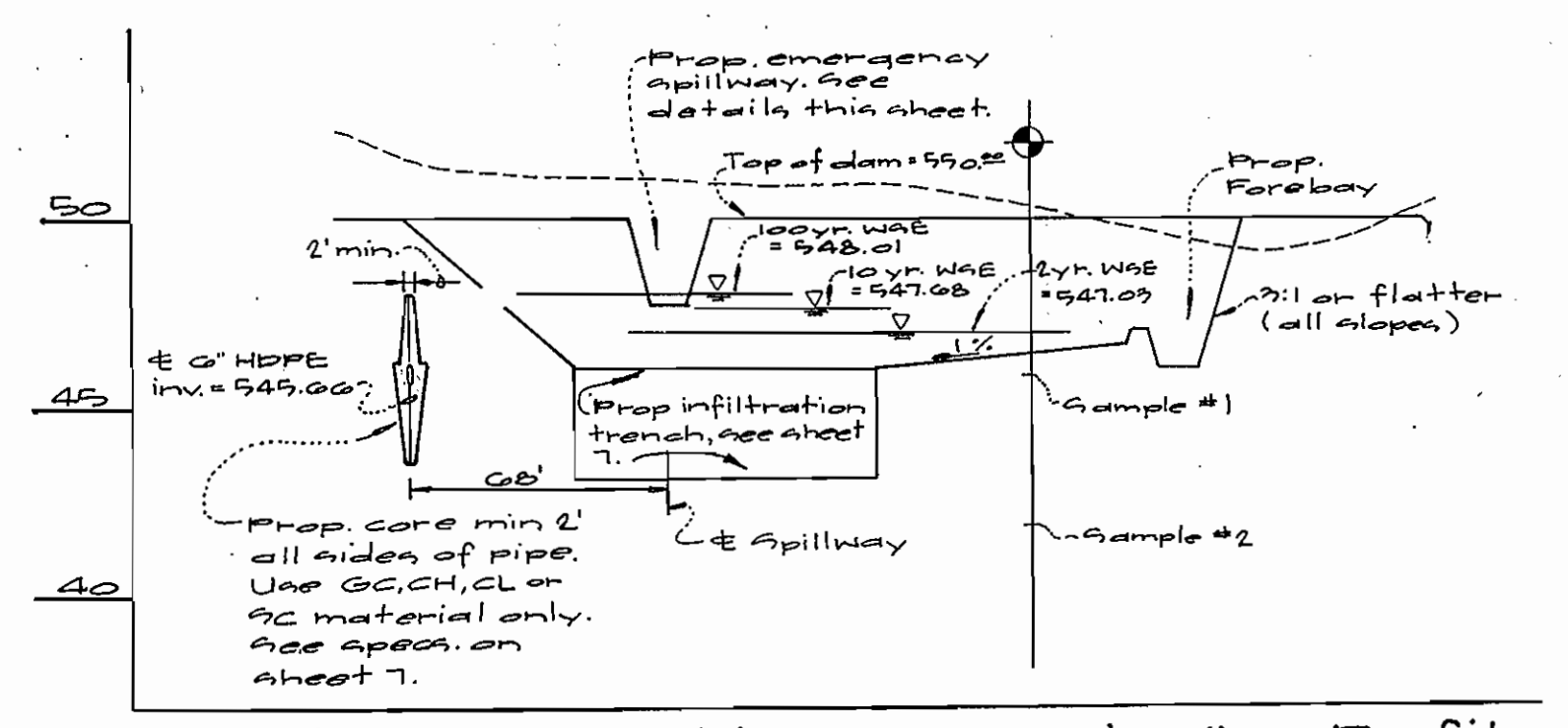
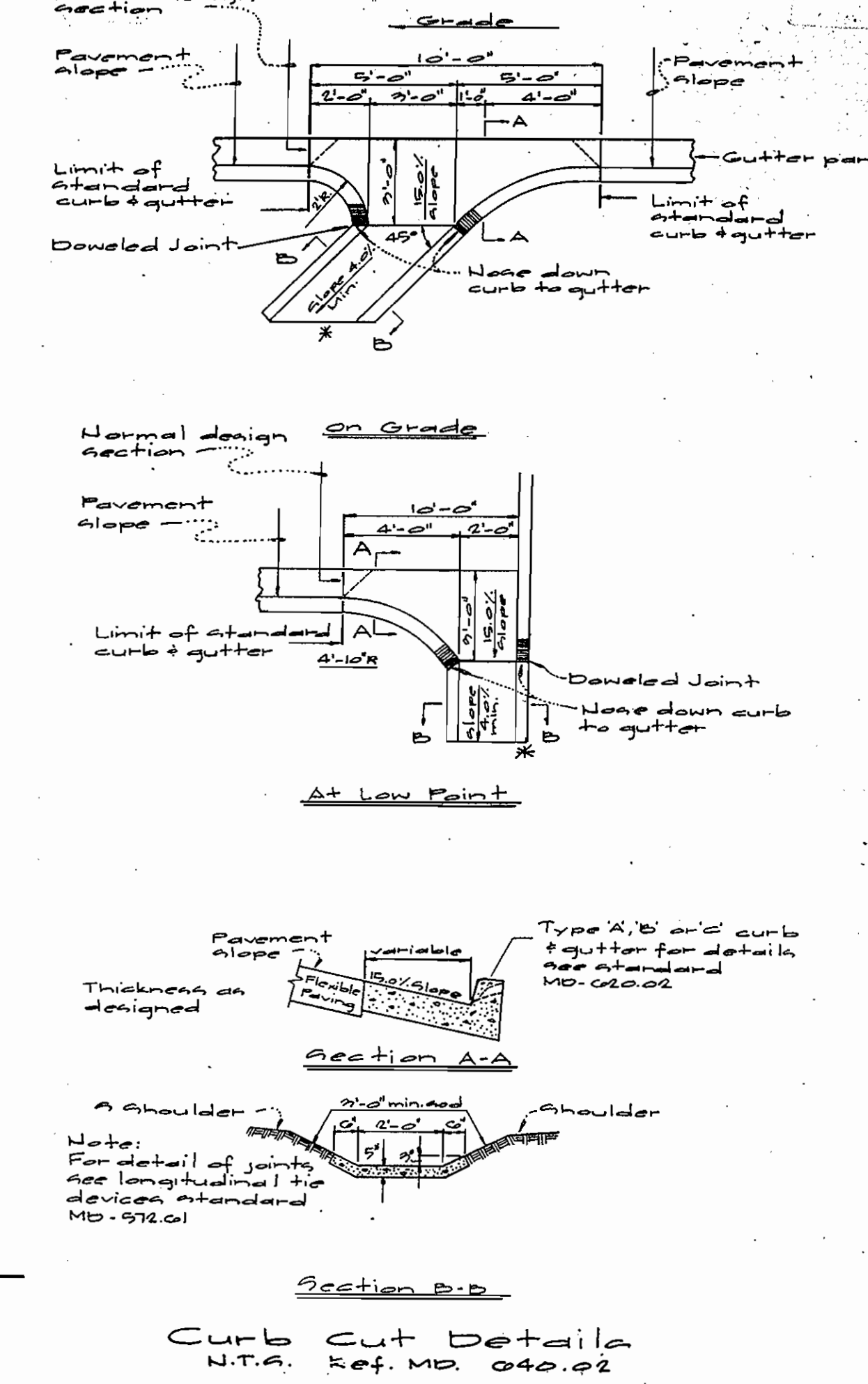
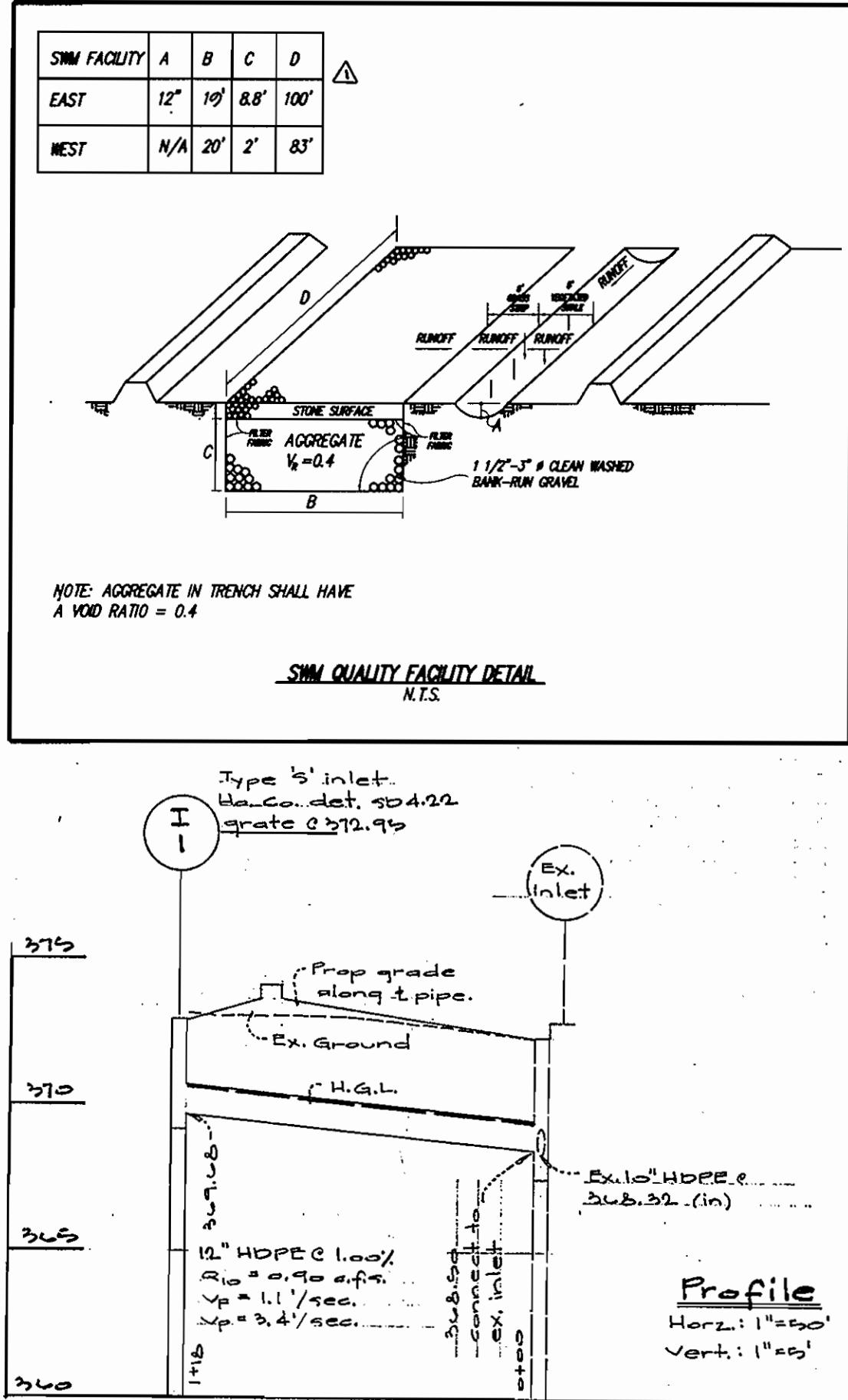
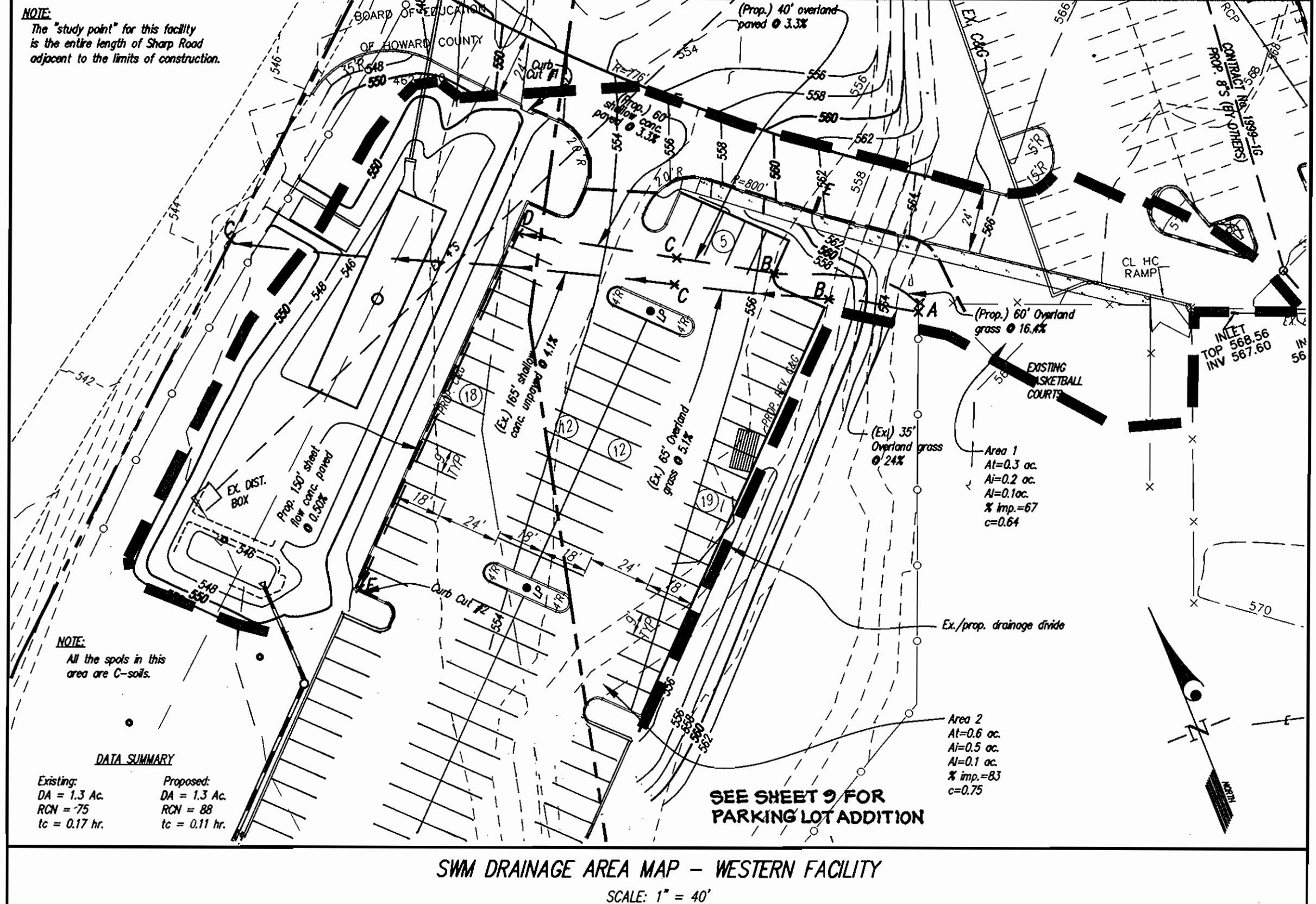
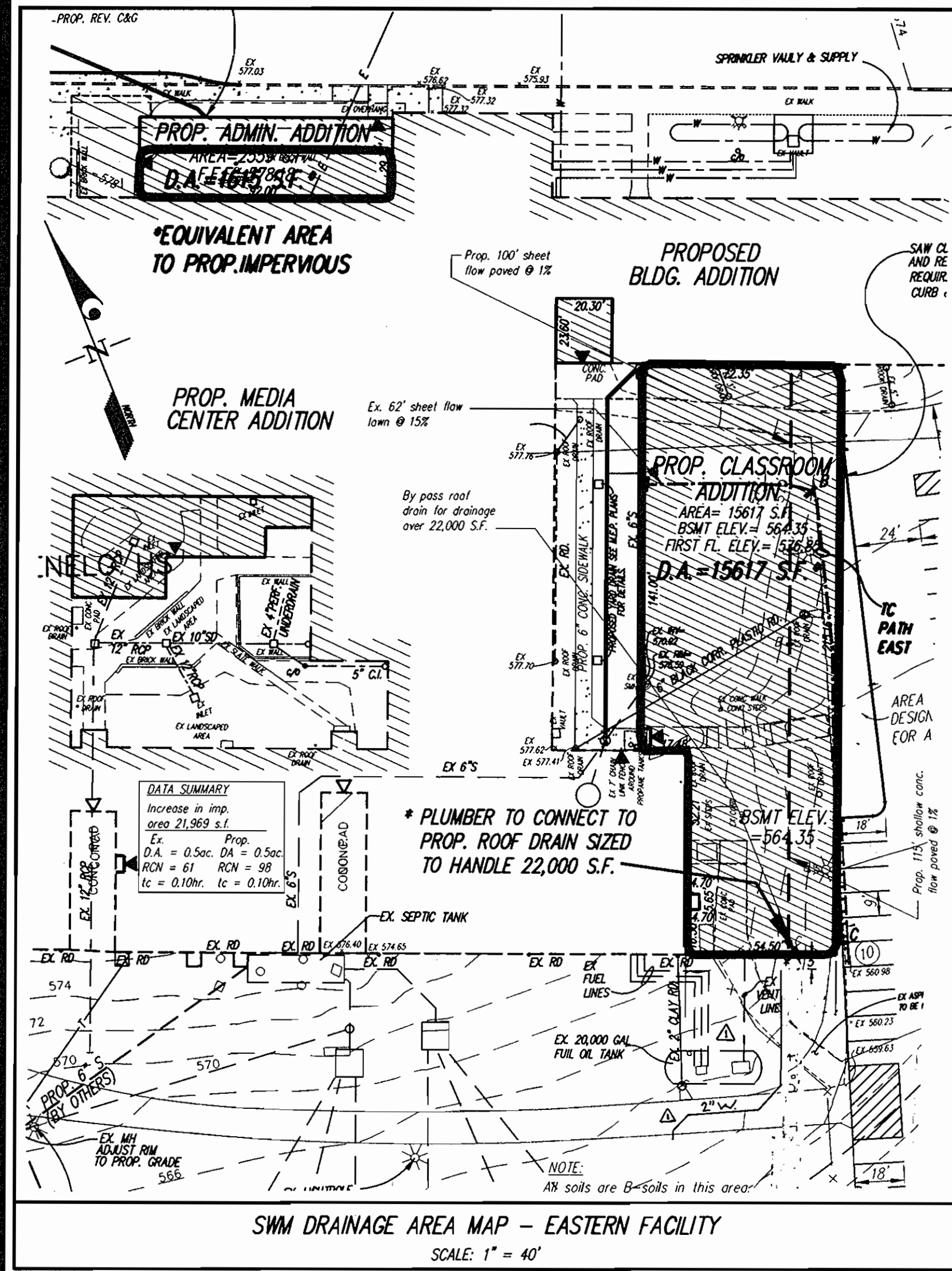
**ELECTION DISTRICT No. 4**

**SITE DETAILS & UTILITY PROFILES**

**GLENELG HIGH SCHOOL**  
PARCELS 121, 11 & 169

SCALE	ZONING	G. L. W. FILE No.
AS SHOWN	RR-DEO	99049
DATE	TAX MAP - GRID	SHEET
1/3/02	21	3 OF 11

HOWARD COUNTY, MARYLAND



**Operation and Maintenance Schedule for Privately Owned and Maintained Detention Pond**

- Routine Maintenance:**
- Facility shall be inspected annually and after major storms. Inspections shall be performed during wet weather to determine if the pond is functioning properly.
  - Top and side slopes of the embankment shall be mowed a minimum of two(2) times per year, once in June and once in September. Other side slopes and maintenance access shall be mowed as needed.
  - Debris and litter shall be removed during regular mowing operations and as needed.
  - Visible signs of erosion in the pond as well as the rip-rap or gabion outlet area shall be repaired as soon as it is noticed.
- Routine Maintenance:**
- Structural components of the pond such as the dam and the 6" HDPE outlet pipe shall be repaired upon the detection of any damage. The components shall be inspected during routine maintenance operations.
  - Sediment shall be removed from the pond, and forebay, no later than when the capacity of the pond, or forebay, is half-full of sediment, or, when deemed necessary for aesthetic reasons, upon approval from the Department of Public Works.

**NOTE:**  
For pond construction specifications and operations and maintenance schedules for infiltration features refer to sheet 7.

**APPROVED:** FOR PRIVATE WATER & SEWERAGE SYSTEMS,  
HOWARD COUNTY HEALTH DEPARTMENT  
*Dennis Bostick, M.P., S.E.* 2-26-02  
County Health Officer Date

**APPROVED:** HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING  
*Joseph R. Ratts* 2/27/02  
Director Date

*Cynthia Herndon* 2/27/02  
Chief, Division of Land Development Date

*Chad Robinson* 2/7/02  
Chief, Development Engineering Division Date

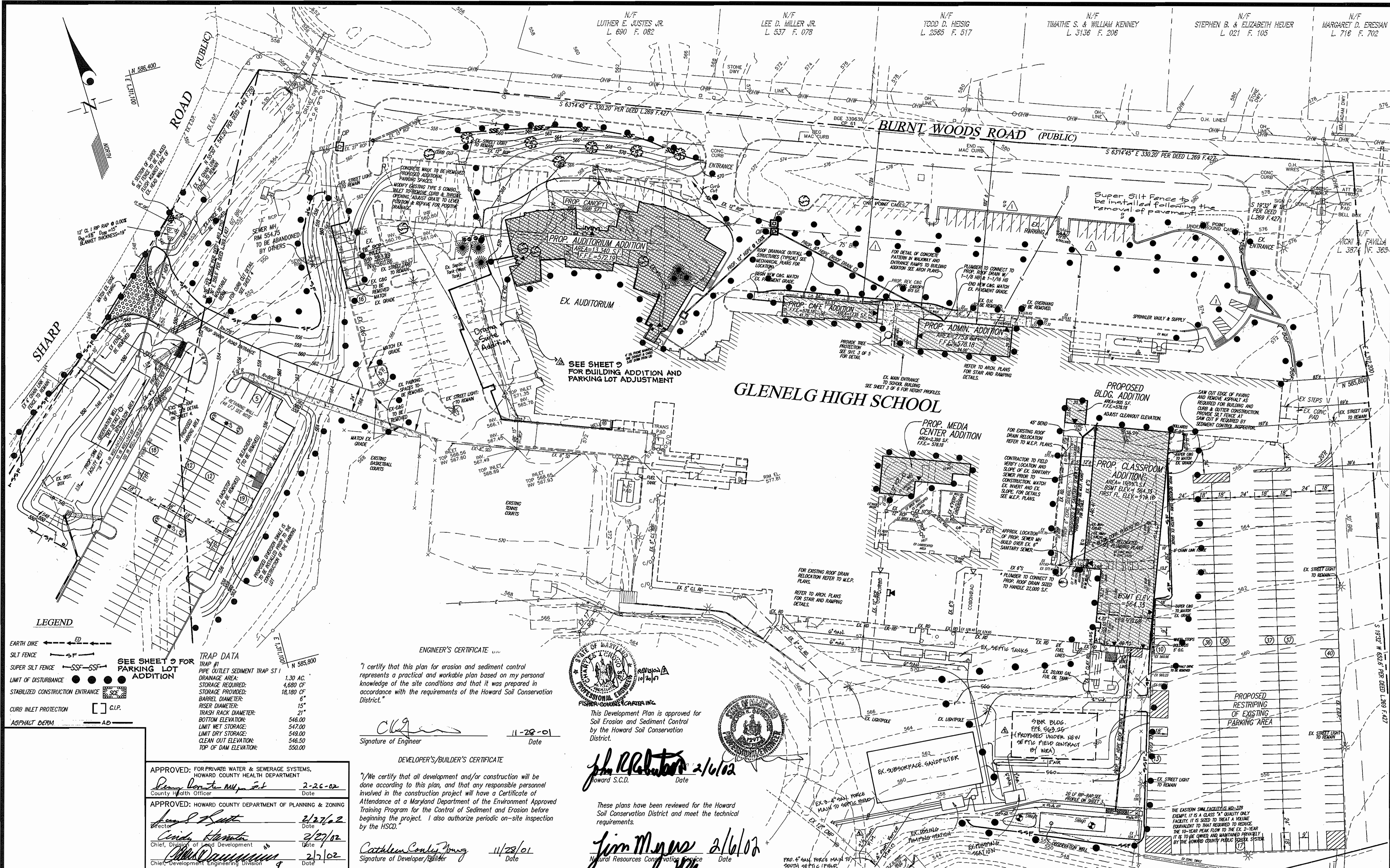
CIVIL ENGINEERS, LAND SURVEYORS, LAND PLANNERS, LANDSCAPE ARCHITECTS  
3909 NATIONAL DRIVE - SUITE 250 - BURTNSVILLE OFFICE PARK  
BURTNSVILLE, MARYLAND 20886  
TEL: 301-421-4024 FAX: 410-880-1820 DC/VA: 301-989-2524 FAX: 301-421-4186

NO.	DATE	REVISION
10-30-07		ADDED BUILDING ADDITION, ADDED PARKING AND CHANGE SHEET NUMBERS
11-12-05		REV. SWM Det. update Det. Map to show correct utilities to accommodate additional impervious area generated by the G.H.S. plans 2005-04-10-06

PREPARED FOR:  
HOWARD COUNTY BOARD OF EDUCATION  
10910 ROUTE 108  
ELLCOTT CITY, MD. 21043  
ATTN: CATHEEN CONLEY YOUNG  
PHONE: (410) 313 - 6704

Stormwater Management Plan and Profiles/Details  
**Glenn High School**  
Parcels 121, 111, and 109  
HOWARD COUNTY, MARYLAND

SCALE	ZONING	G. L. W. FILE NO.
AS SHOWN	R-DEO	99049
DATE	TAX MAP - GRID	SHEET
1/3/02	21	4 OF 11



**LEGEND**

EARTH DIKE ← ED →

SILT FENCE ← SF →

SUPER SILT FENCE ← SSF →

LIMIT OF DISTURBANCE ●●●●●

STABILIZED CONSTRUCTION ENTRANCE [Symbol]

CURB INLET PROTECTION [Symbol]

ASPHALT BERM ← AB →

**TRAP DATA**

TRAP #1  
PIPE OUTLET SEDIMENT TRAP ST 1

DRAINAGE AREA: 1.30 AC.  
STORAGE REQUIRED: 4,680 CF  
STORAGE PROVIDED: 16,180 CF  
DRAIN DIAMETER: 6" R/SER DIAMETER:  
TRASH RACK DIAMETER: 21"  
BOTTOM ELEVATION: 546.00  
LIMIT WET STORAGE: 547.00  
LIMIT DRY STORAGE: 549.00  
CLEAN OUT ELEVATION: 546.50  
TOP OF DAM ELEVATION: 550.00

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

*Denny R. ...* 2-26-02  
County Health Officer Date

**APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING**

*...* 2/27/02 Date  
Director

*...* 2/27/02 Date  
Chief, Division of Land Development

*...* 2/27/02 Date  
Chief, Development Engineering Division

**ENGINEER'S CERTIFICATE**

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

*...* 11-28-01  
Signature of Engineer Date

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

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

*...* 11/28/01  
Signature of Developer/BUILDER Date

**STATE OF MARYLAND**  
**HOWARD COUNTY**  
**PROFESSIONAL ENGINEER**

*...* 10/20/01  
FISHER-COONS ENGINEERING

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

*...* 2/6/02  
Howard S.C.D. Date

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

*...* 2/6/02  
Natural Resources Conservation Service Date

**GLW GUTSCHICK LITTLE & WEBER, P.A.**  
CIVIL ENGINEERS, LAND SURVEYORS, LAND PLANNERS, LANDSCAPE ARCHITECTS  
3909 NATIONAL DRIVE - SUITE 250 - BURTONVILLE OFFICE PARK  
BURTONVILLE, MARYLAND 20886  
TEL: 301-421-4024 BALT: 410-880-1820 DC/VA: 301-889-2524 FAX: 301-421-4188

DATE	REVISION	BY	APPR.
2/7/02	Revise front parking configuration and bus loop.		
3/2/04	Revise sediment control due to adjustment in east SWIM.		JAIL
3/28/04	Revise SWIM trench, update site plan, modify road drain to accommodate add. imp. area generated by the G.H.S. plans.		
10-26-07	ADDED BUILDING ADDITION, ADDED PARKING AND CHANGE SHEET NUMBERS/Drama Suite		

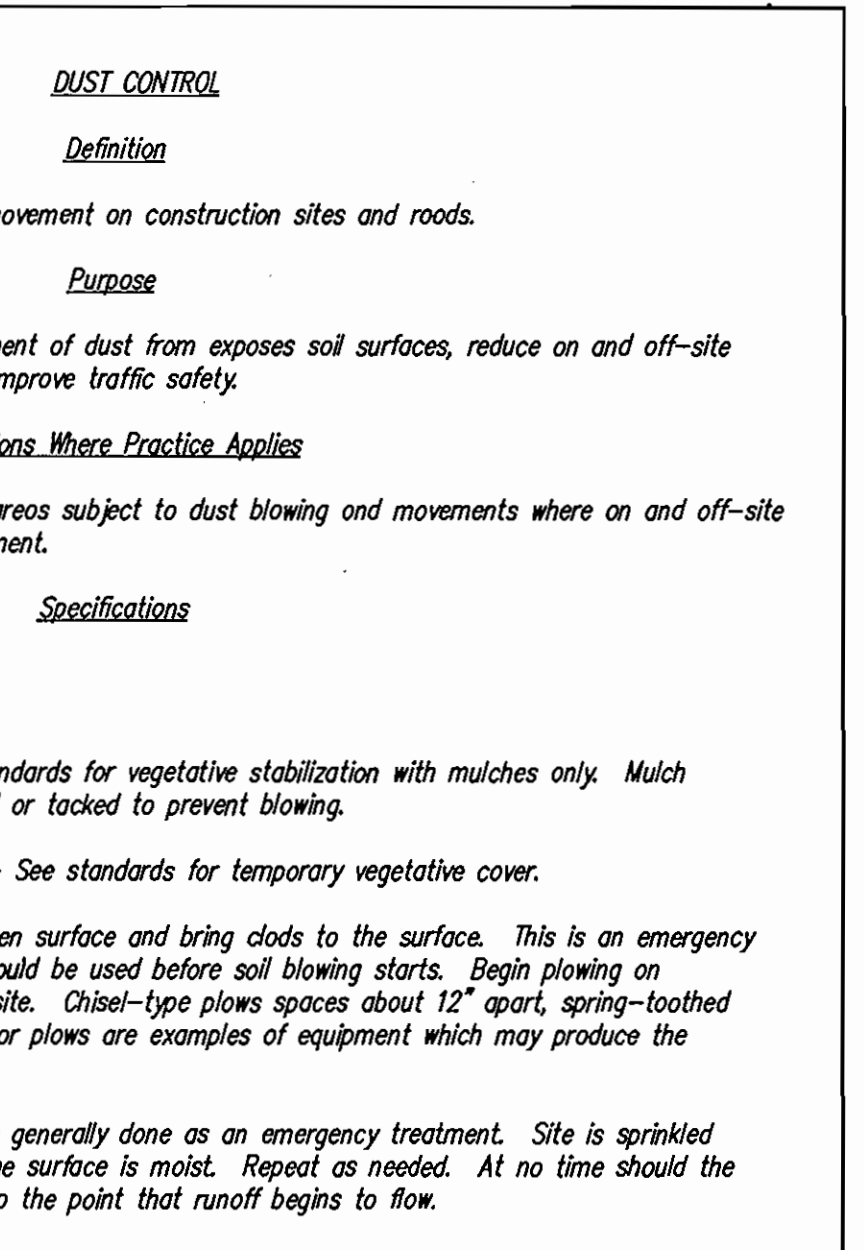
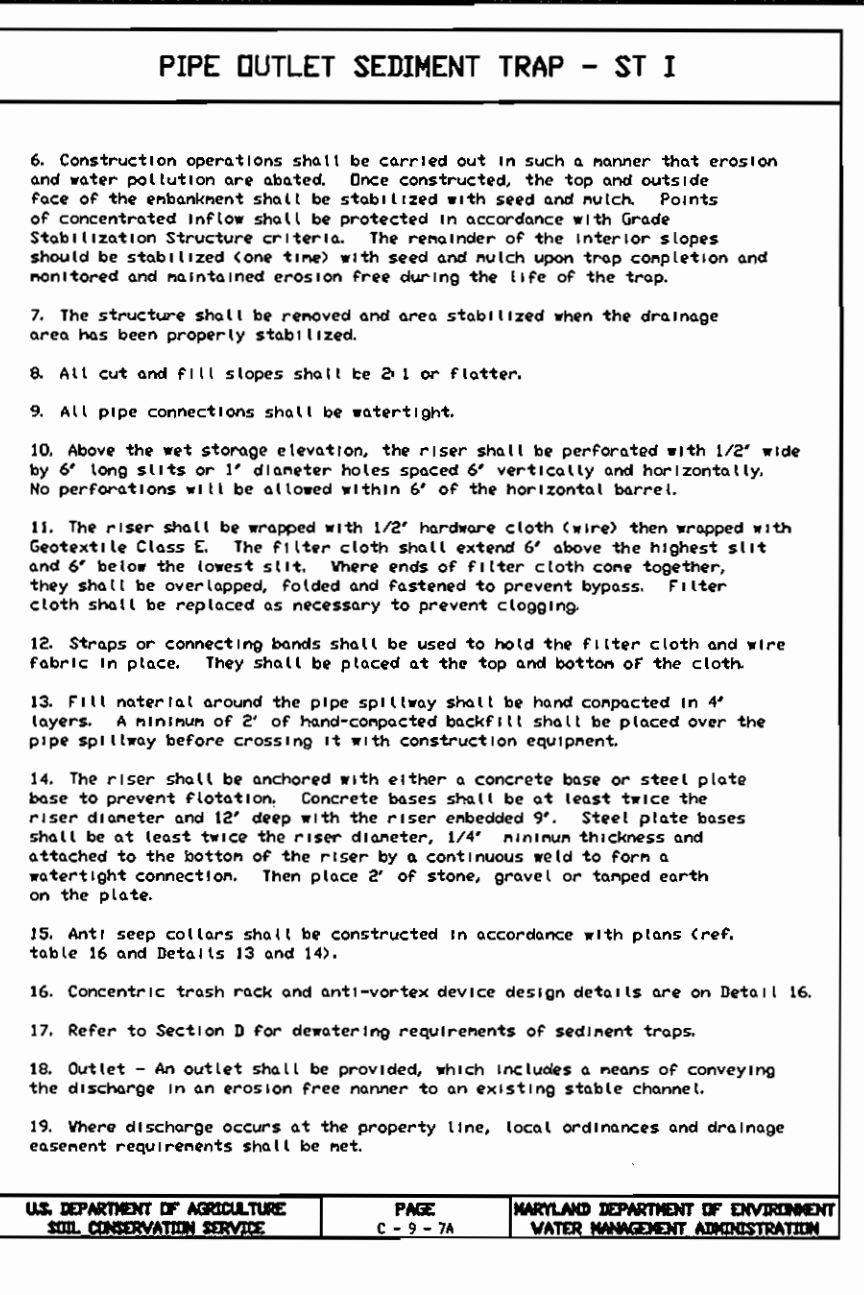
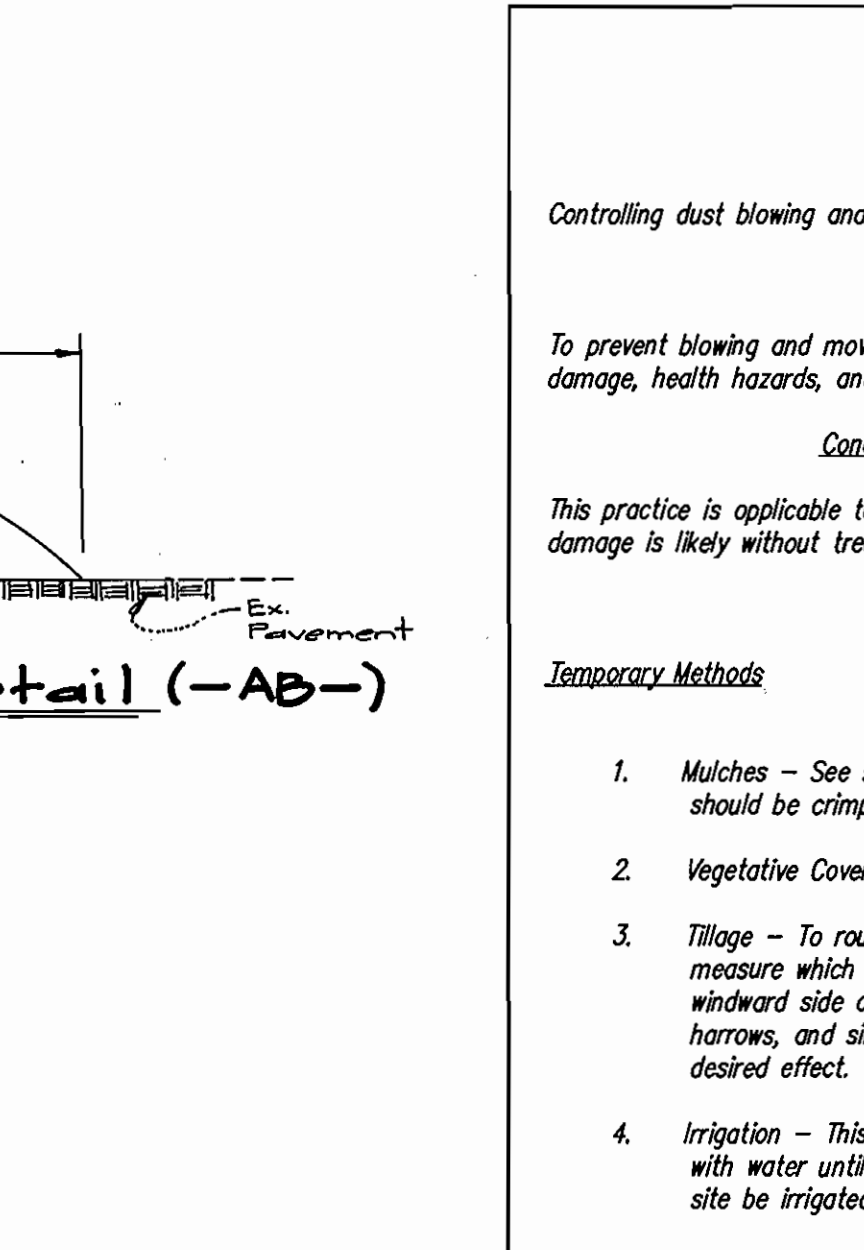
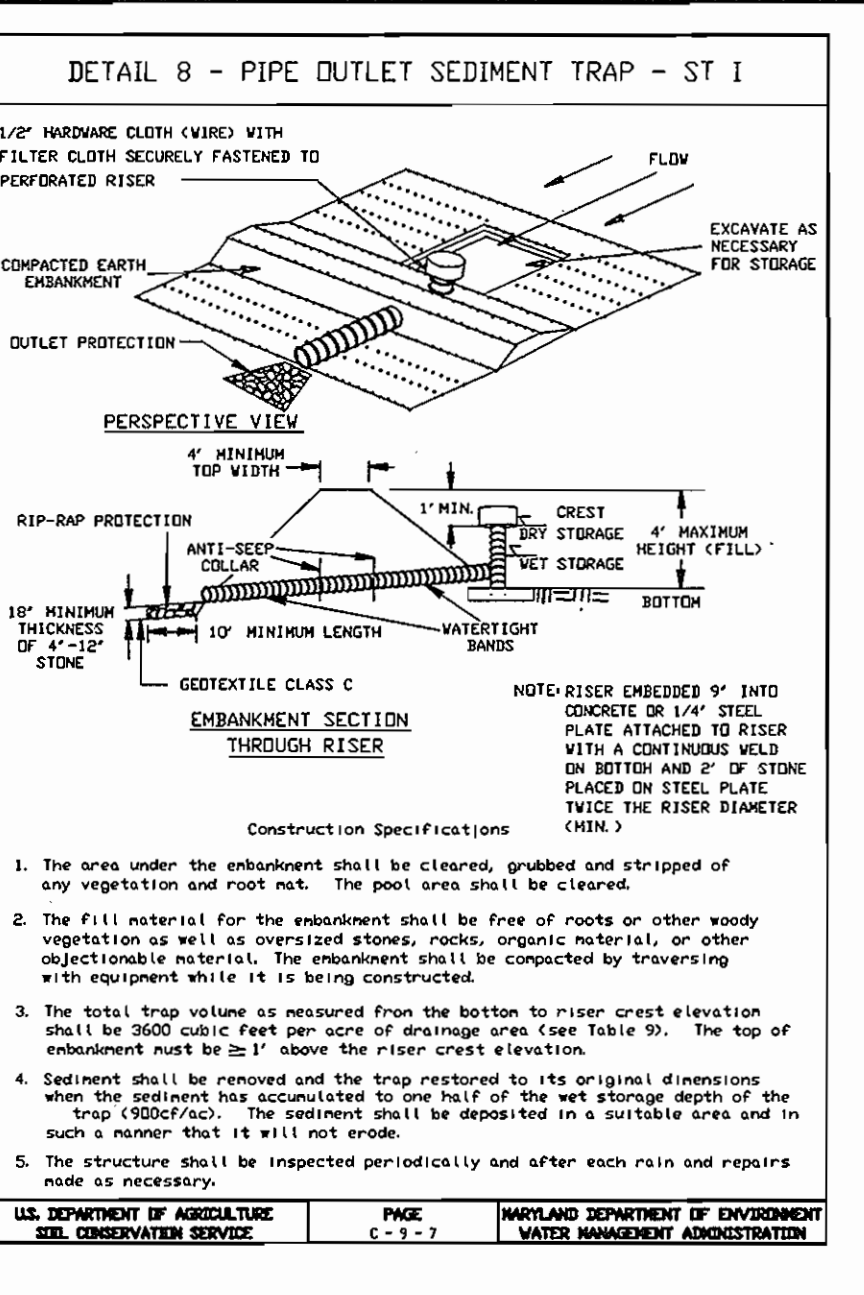
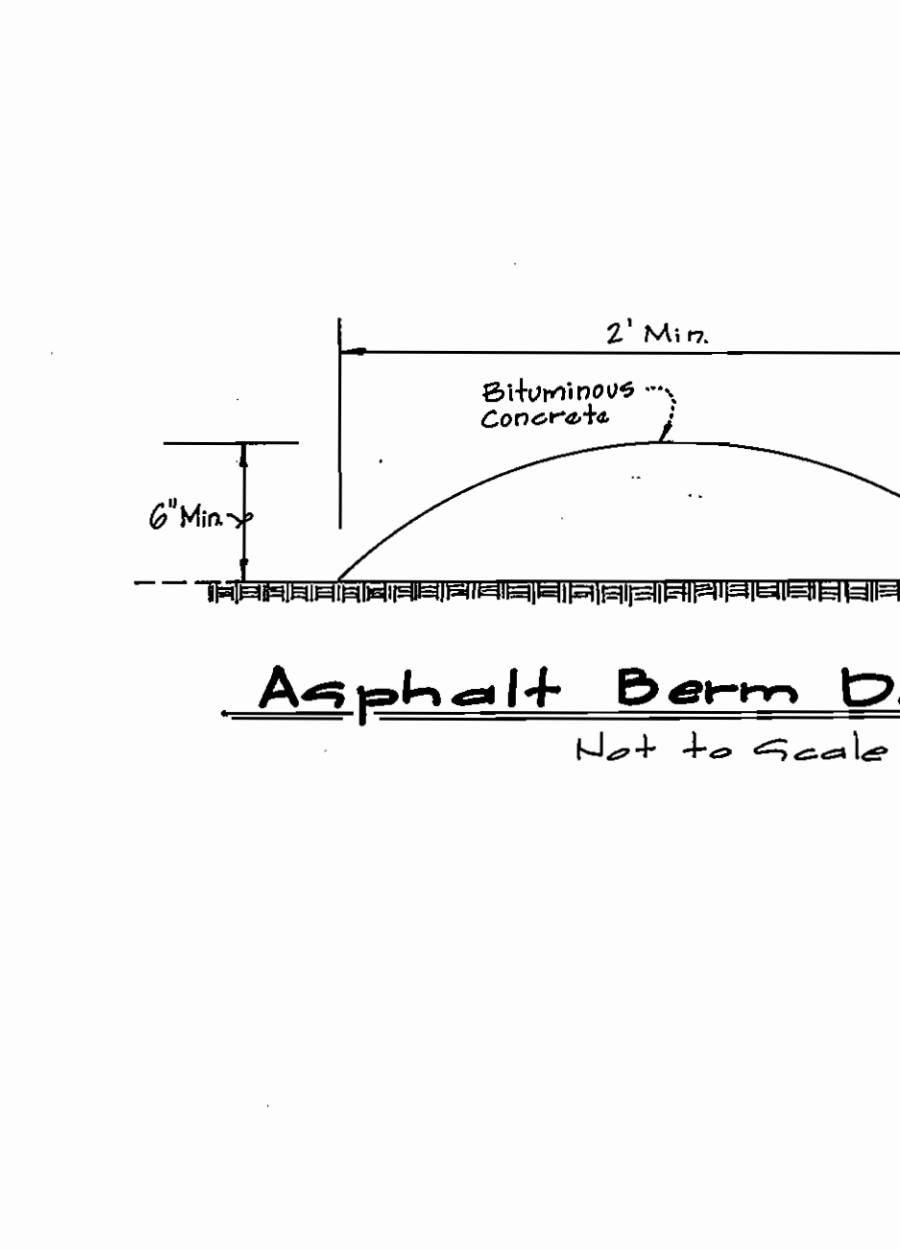
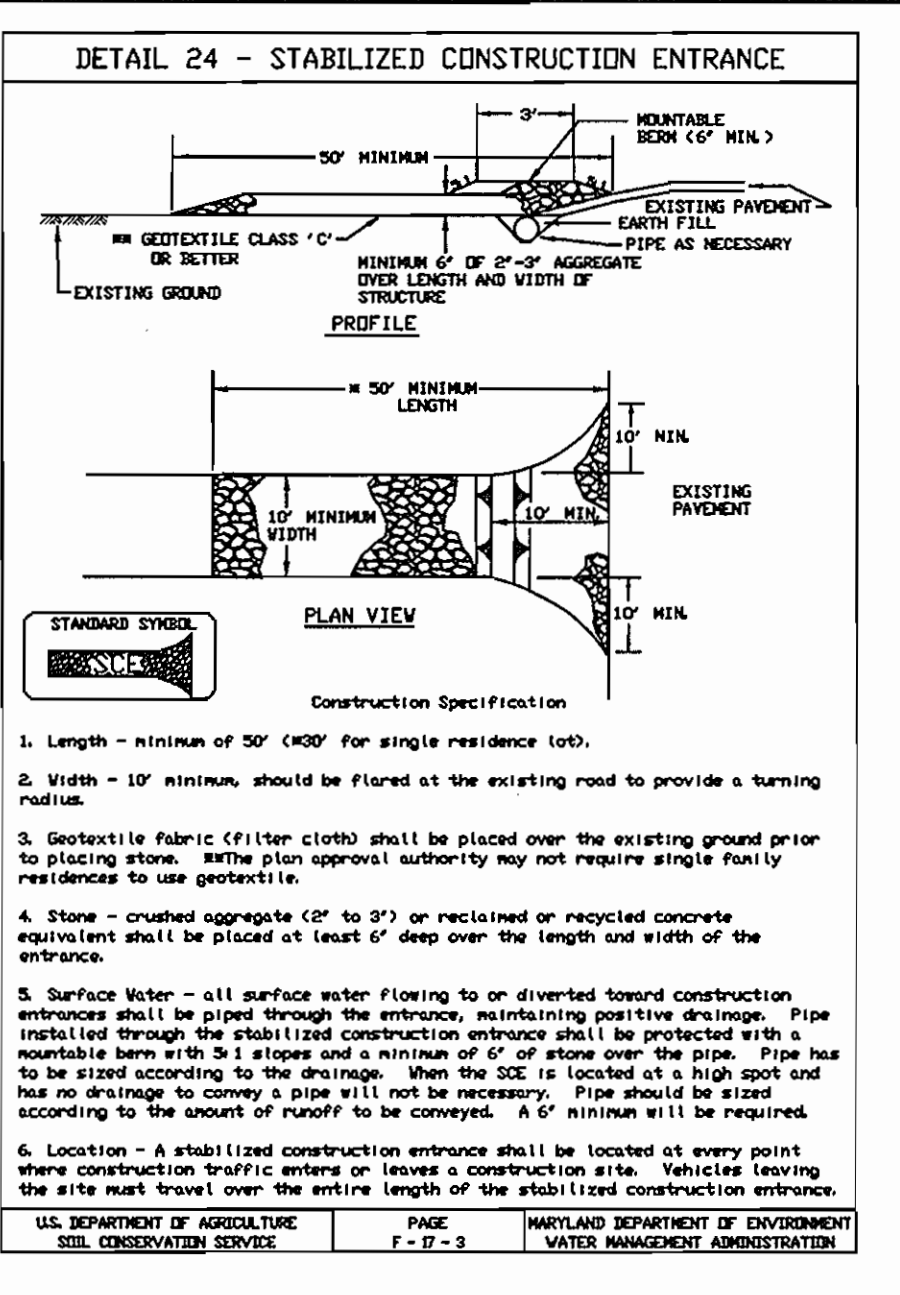
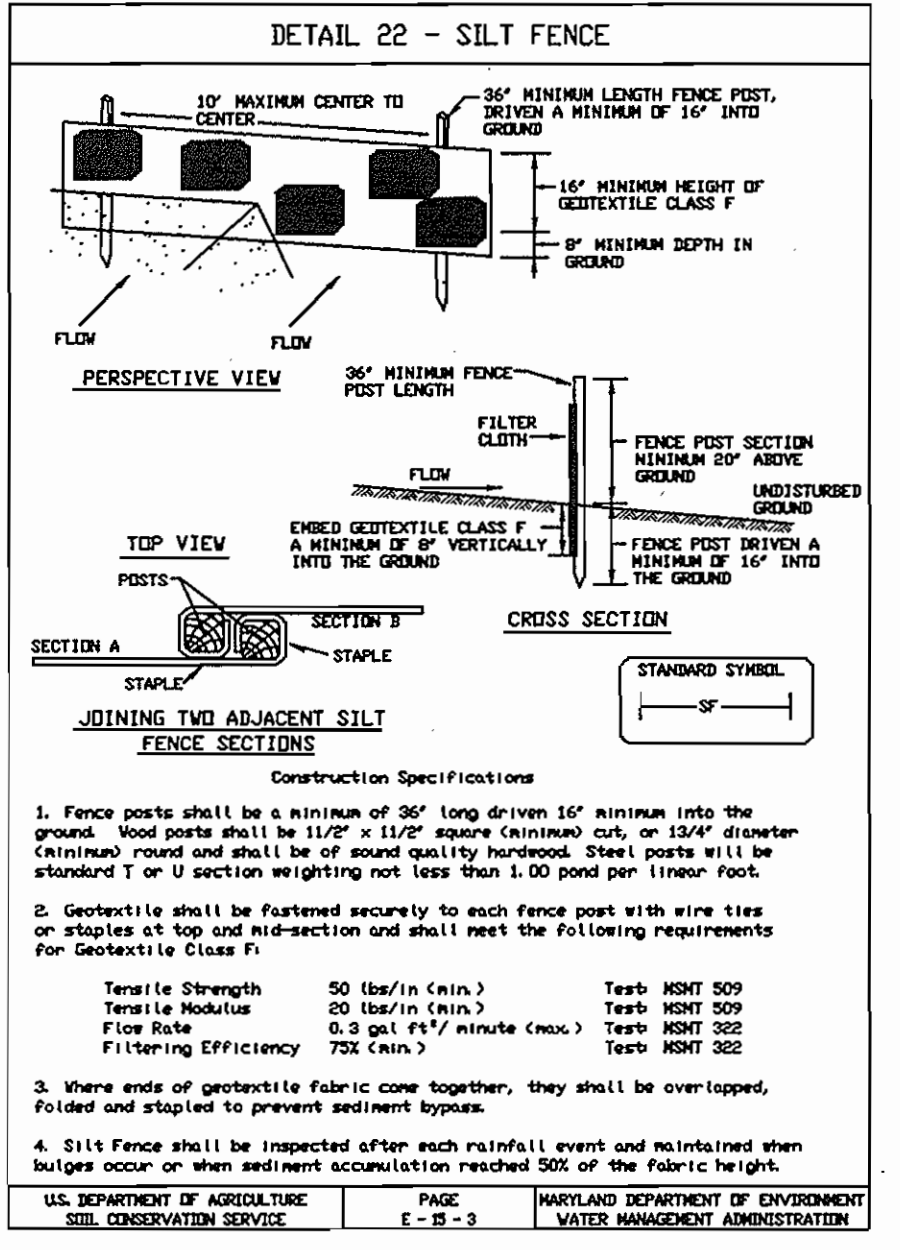
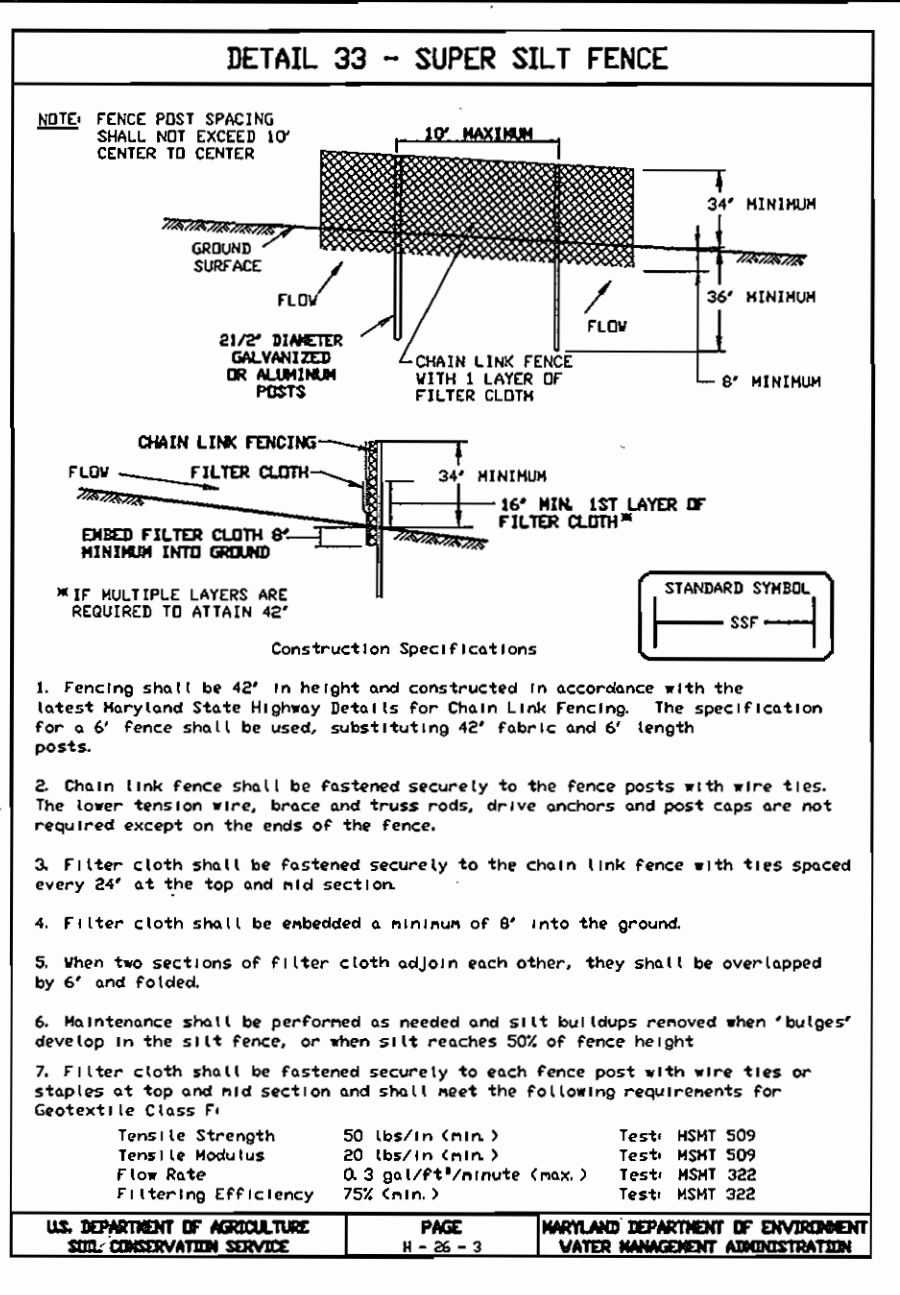
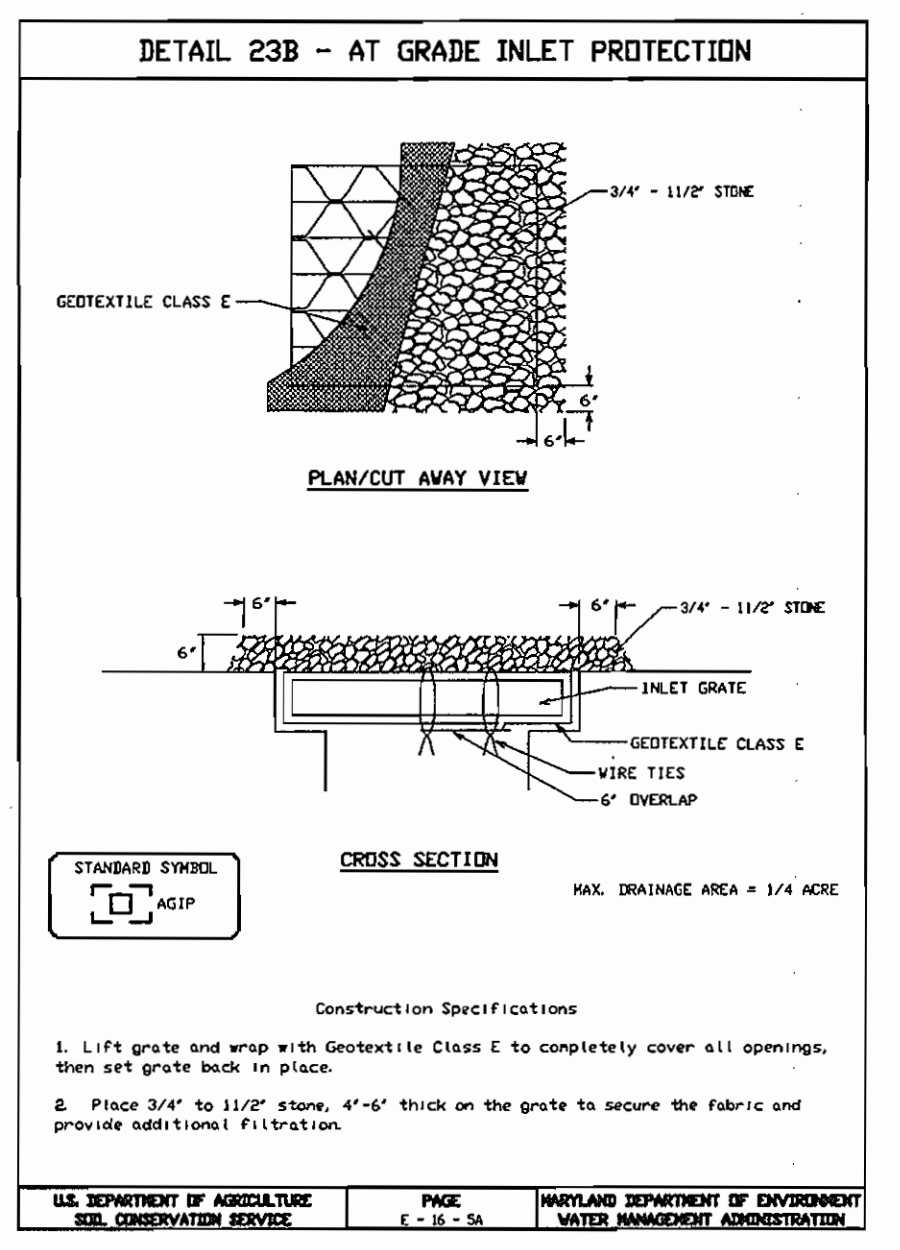
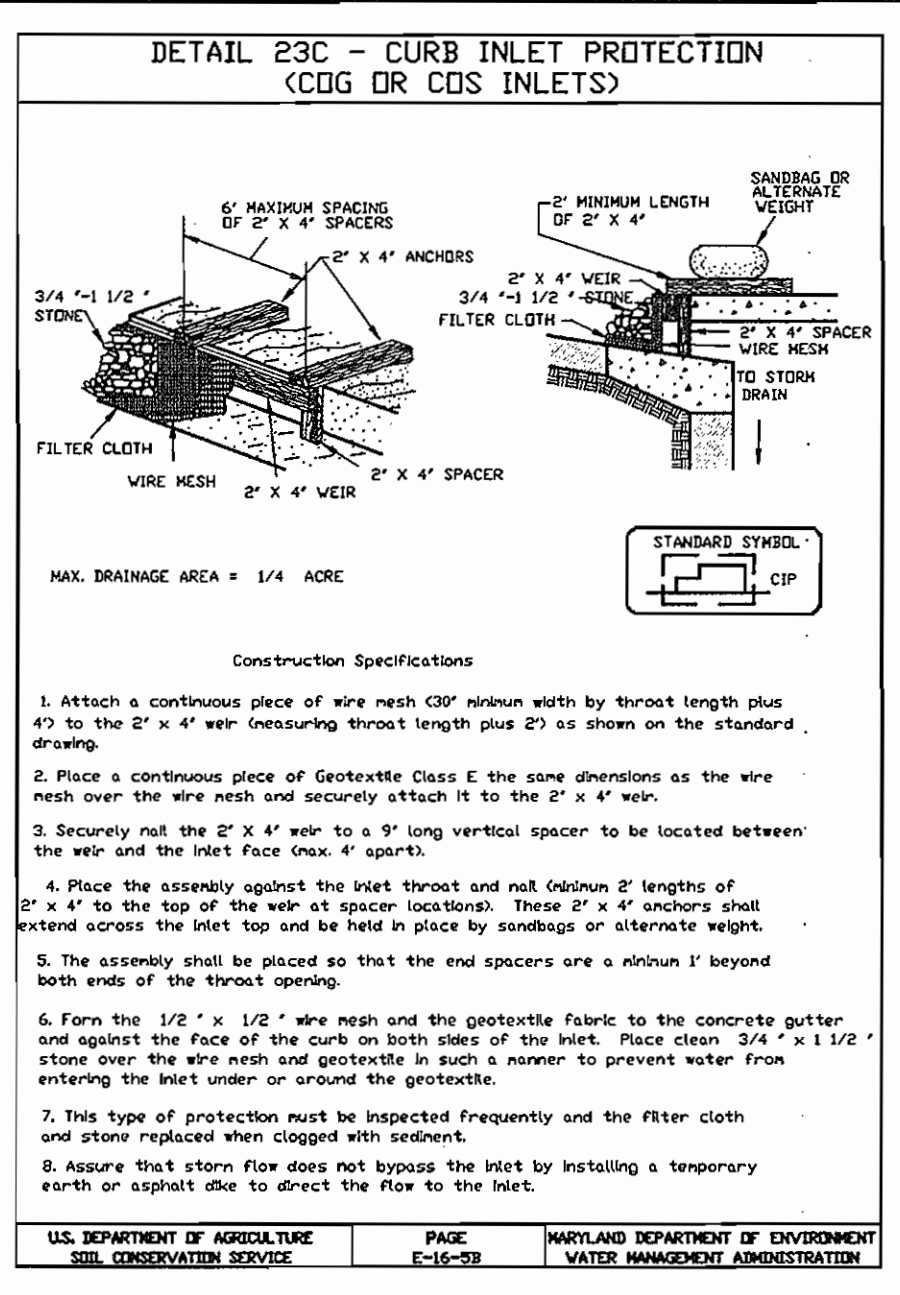
PREPARED FOR:  
HOWARD COUNTY BOARD OF EDUCATION  
10910 ROUTE 108  
ELLICOTT CITY, MD. 21043  
ATTN: CATHEEN CONLEY YOUNG  
PHONE: (410) 313 - 6704

**SEDIMENT CONTROL PLAN**  
**GLENELG HIGH SCHOOL**  
PARCELS 121, 11 & 169

ELECTION DISTRICT No. 4

SCALE	ZONING	G. L. W. FILE NO.
1"=40'	RR-DEO	99049
DATE	TAX MAP - GRID	SHEET
1/3/02	21	5 OF 11

99049SCP.dwg 11-16-01 8:25:53 am EST



**PERMANENT SEEDING NOTES**

Apply to graded or cleared area 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 (unless previously loosened).

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

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

**TEMPORARY SEEDING NOTES**

Apply to graded or cleared areas likely to be redistributed 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 (unless previously loosened).

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

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

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

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

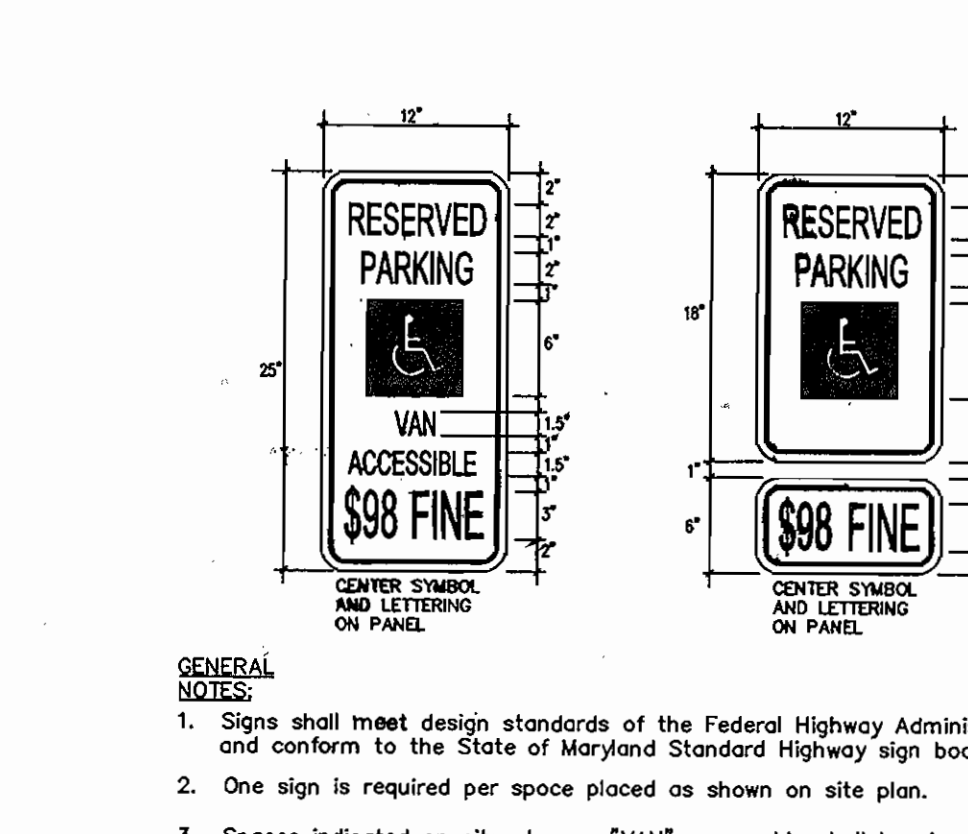
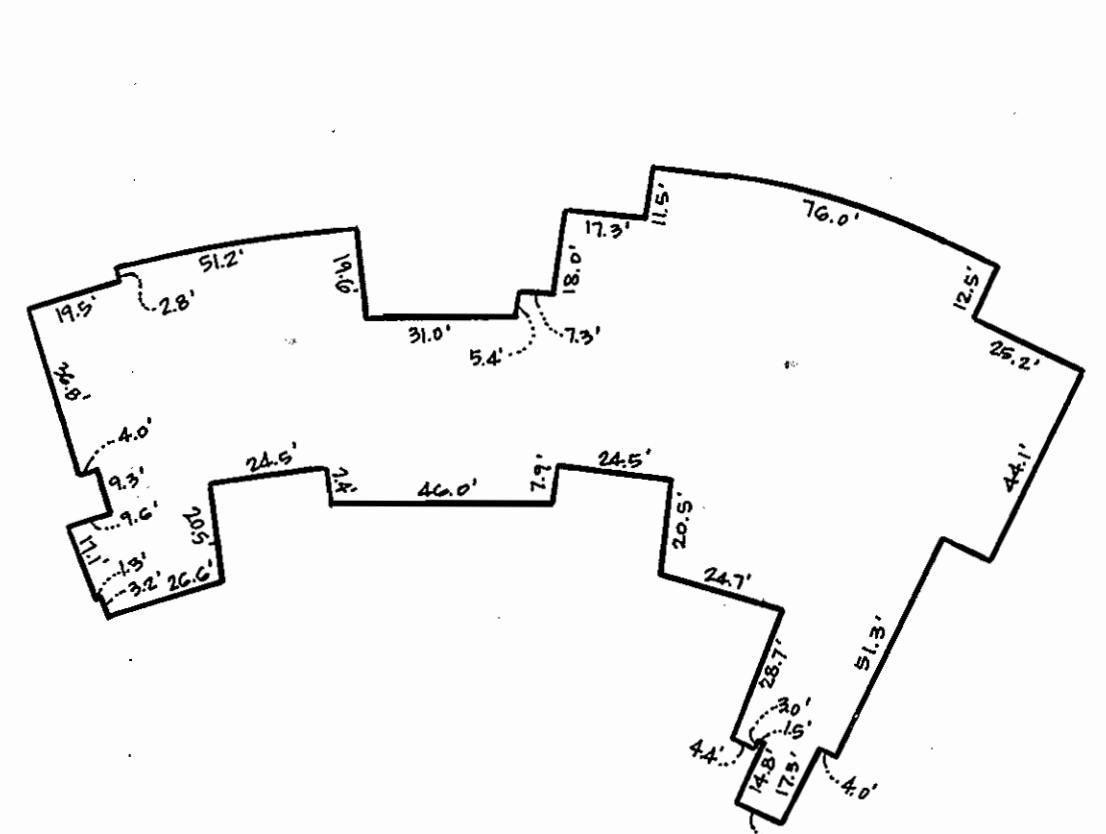
**SEDIMENT CONTROL NOTES**

County Office of Inspection and Permits prior to the start of any construction. (410) 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 1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL.
3. Following initial soil disturbance or redistribution, permanent or temporary stabilization shall be completed within: a) 7 calendar days for all perimeter sediment control structures, dikes and perimeter slopes and all slopes greater than 3:1, b) 14 days as to all other disturbed or graded areas on the project site.
4. All sediment traps/basins must be fenced and warning signs posted around their perimeter in accordance with Vol. 1, Chapter 12, of the HOWARD COUNTY DESIGN MANUAL, Storm Drainage.
5. All disturbed areas must be stabilized within the time period specified above in accordance with the 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL for permanent seedings, sod, temporary seeding and mulching (Sec. G). Temporary stabilization, with mulch alone, can only be done when recommended seeding dates do not allow for proper germination and establishment 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	40.94 Acres
Area Disturbed	4.14 Acres
Area to be roofed or paved	1.98 Acres
Area to be vegetatively stabilized	2.56 Acres
Total Cut	226 Cu. Yds.
Total Fill	6021 Cu. Yds.

 Off-site waste/borrow area location: \*  
 \*It is the contractor's responsibility to locate a site with an approved grading plan.
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 control must be provided, if deemed necessary by the Howard County DPW 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 3 pipe lengths or that which shall be backfilled and stabilized within one working day, whichever is shorter.



**GENERAL NOTES:**

1. Signs shall meet design standards of the Federal Highway Administration and conform to the State of Maryland Standard Highway sign booklet detail R7-B.
2. One sign is required per space placed as shown on site plan.
3. Spaces indicated on site plan as "VAN" accessible shall be signed accordingly.
4. Signs shall be pole mounted with hot dipped galvanized county approved perforated channel posts w/ the top of the sign 9'-1" above finished grade or as indicated on site drawings.
5. Sign shall be attached to flanged side of post. Post shall extend into ground 2'-6" min.
6. Colors: Legend and Border - green  
Symbol - white on blue background  
background - white

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

*Denny Doster* 2/26/02  
County Health Officer Date

**APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING**

*Joseph R. Smith* 2/27/02  
Director Date

*Cindy Henrich* 2/27/02  
Chief, Division of Land Development Date

*Charles DeMunnich* 2/27/02  
Chief, Development Engineering Division Date

**GLW GUTSCHICK LITTLE & WEBER, P.A.**  
CIVIL ENGINEERS, LAND SURVEYORS, LAND PLANNERS, LANDSCAPE ARCHITECTS  
3909 NATIONAL DRIVE - SUITE 250 - BURTNSVILLE OFFICE PARK  
BURTNSVILLE, MARYLAND 20885  
TEL: 301-421-4024 BALD: 410-880-1820 DC/VA: 301-889-2524 FAX: 301-421-4188

NO.	DATE	BY	APP'R.
10-30-07	2/27/02	AS	CHANGED SHEET NUMBERS
REVISION			

**ENGINEER'S CERTIFICATE**

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

*John K. Robertson* 11-28-01  
Signature of Engineer Date

**PREPARED FOR:**  
HOWARD COUNTY BOARD OF EDUCATION  
10910 ROUTE 108  
ELLCOTT CITY, MD 21043  
ATTN: CATHEEN CONLEY YOUNG  
PHONE: (410) 313 - 6704

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

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

*Caitleen Conley Young* 1/28/02  
Signature of Developer/Builder Date

**SEDIMENT CONTROL NOTES & DETAILS**

**GLENELG HIGH SCHOOL**  
PARCELS 121, 11 & 169

ELECTION DISTRICT No. 4

**SEQUENCE OF CONSTRUCTION**

1. Apply for grading permit and arrange for on-site pre-construction meeting.
2. Receive grading permit from Sediment Control Inspector at all pre-construction meeting.
3. Coordinate with appropriate utility companies (BSE, Bell Atlantic, Ho. Co. Bureau of Utilities, etc.) to discover, abandon or relocate applicable services (1-2 weeks)
4. Install stabilized construction entrances (1 day)
5. Install sediment control devices shown (1 week)
6. Excavate to locate existing 6" sanitary sewer. Construct sewer bypass (1 week)
7. Relocate any roof drains or private utilities required for construction of building additions. (2 weeks)
8. Grade site and bring to appropriate subgrade. (3 weeks)
9. Install proposed SMI Facilities. (3 weeks)
- 10a. Construct building additions, site utility modifications, and concrete curb and gutter. Provide diversion at curb cut to West SMI Facility until drainage area is stabilized. (12-14 months)
- 10b. Install sanitary sewer force main per contract No. 1999-10.
11. Install stone base for asphalt parking (1 day)
12. With permission from the Sediment Control Inspector, remove West Entrance stabilized construction entrances. Install asphalt base course, final paving, and concrete walk and concrete pads. (1 week)
13. Strip parking areas. (1 day)
14. Landscape where applicable. (3 days)
15. Stabilize all disturbed areas. (1 day)
16. With permission from the Sediment Control Inspector, remove all sediment controls. (1 week)

Note: Items 10 thru 15 to be done in phases as each building addition is constructed separately.

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

*John K. Robertson* 2/16/02  
Howard S.C.D. Date

SCALE	ZONING	G. L. W. FILE NO.
AS SHOWN	RR-DEO	99049
DATE	TAX MAP - GRID	SHEET
1/3/02	21	6 OF 11

**POND CONSTRUCTION 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, fences, rubbish and other objectionable material unless otherwise designated on the plans. Trees, brush and stumps shall be cut approximately level with the ground surface. For dry stormwater management ponds, a minimum of a 50 foot radius around the inlet structure shall be cleared.

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

**Earth Fill**

**Material** - The fill material shall be taken from approved designated borrow areas. It shall be free of roots, stumps, wood, rubbish, stones greater than 6", frozen or other objectionable materials. Fill material for the center of the embankment and cut off trench shall conform to Unified Soil Classification 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** - Area on which fill is to be placed shall be scarified prior to placement of fill. Fill materials shall be placed in maximum 8 inch thick (before compaction) layers which are to be continuous over the entire length of the fill. The most permeable borrow material shall be placed in the downstream portions of the embankment. The principal spillway must be installed concurrently with fill placement and not excavated in to the embankment.

**Compaction** - The movement of the hauling and spreading equipment over the fill shall be controlled so that the entire surface of each lift shall be traversed by not less than one tread track of the equipment or compaction shall be achieved by a minimum of four complete passes of a sheepfoot, rubber tired 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  $\pm 2\%$  of the optimum. Each layer of fill shall be compacted as necessary to obtain that density, and is to be certified by the Engineer at the time of construction. All compaction is to be determined by AASHTO Method T-99.

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

**Structure Backfill**

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

NOTE: Although this pond is not subject to MD-378, these specifications shall be employed as applicable based on the plans and details contained in this plan set.

**Pipe Conduits**

All pipes shall be circular in cross section.

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

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

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

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

2. **Coupling bands, anti-seep collars, and sections, etc.**, must be composed of the same material as the pipe. Metals must be insulated from dissimilar materials with use of rubber or plastic insulating materials at least 24 mils in thickness.
3. **Connections** - All connections with pipes must be completely watertight. The drain pipe or barrel connection to the riser shall be welded all around when the pipe & riser are metal. Anti-seep collars shall be connected to the pipe in such a manner as to be completely watertight. Dimple bands are not considered to be watertight.

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

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

4. **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.
5. **Backfilling** shall conform to "Structure Backfill".
6. **Other details** (anti-seep collars, valves, etc.) shall be as shown on the drawings.

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

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 sides of the pipe to at least 10X 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 end upstream. Joints shall be made in accordance with recommendations of the manufacturer of the material. After the joints are sealed for the entire line, the bedding shall be placed so that all spaces under the pipe are filled. Care shall be exercised to prevent any deviation from the original line and grade of the pipe. The first joint must be located within 2 feet from the riser.

4. Backfilling shall conform to "Structure Backfill".

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

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

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 Standards Specifications for Construction and Materials, Section 608, Mix No. 3.

**Rock Riprap**

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

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

**Care of Water during Construction**

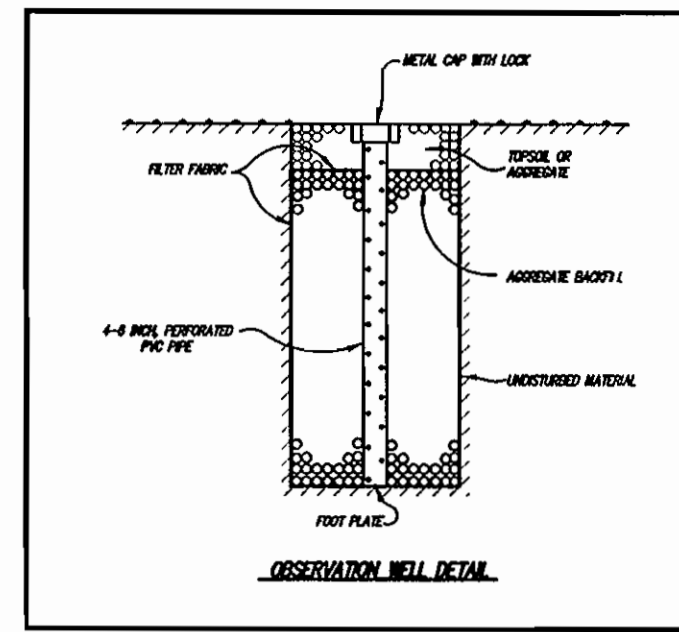
All work on permanent structures shall be carried out in areas free from water. The Contractor shall construct and maintain all temporary dikes, levees, cofferdams, drainage channels, and stream diversions necessary to protect the areas to be occupied by the permanent works. The contractor shall also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

**Stabilization**

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

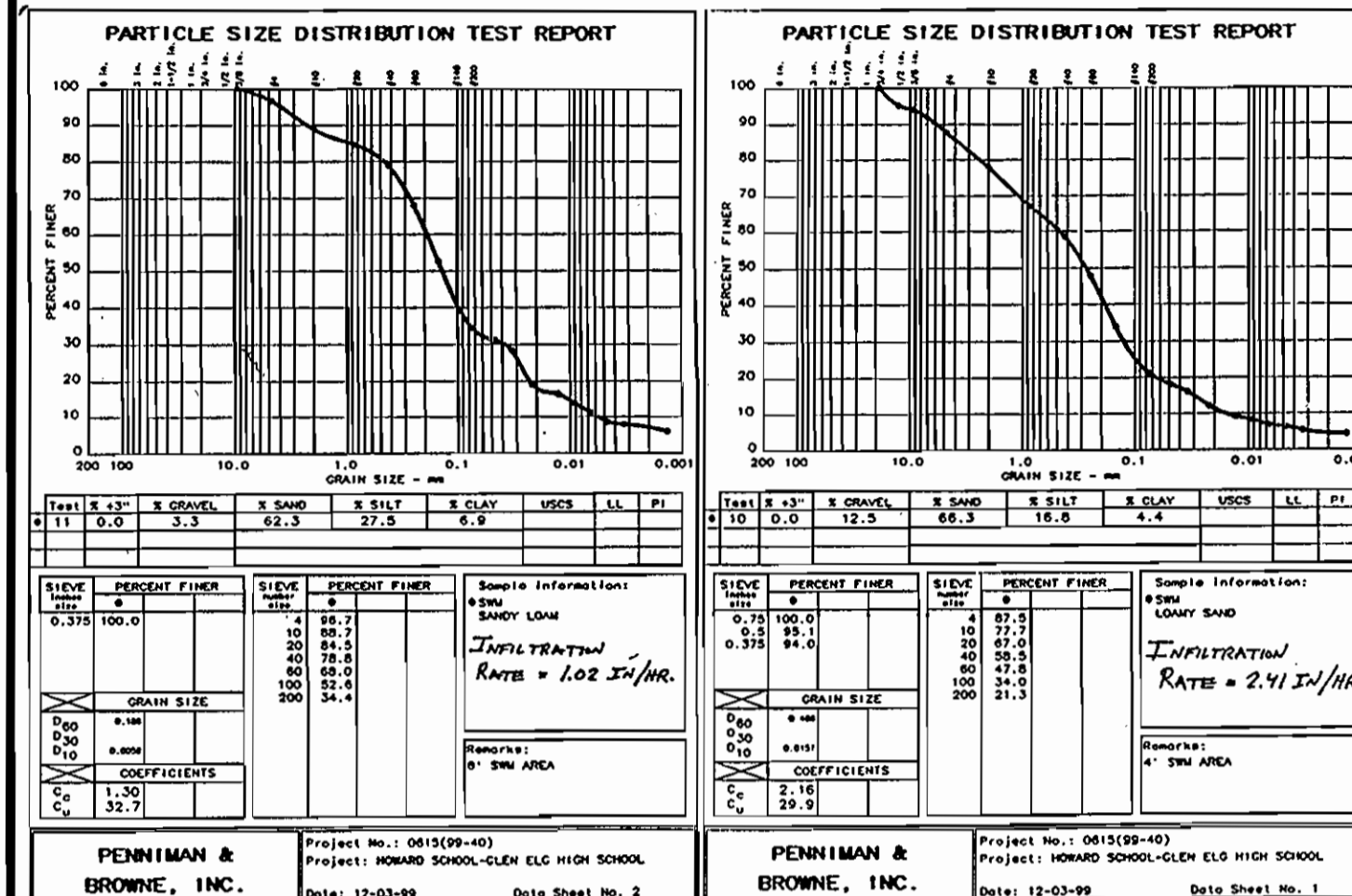
**Erosion and Sediment Control**

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

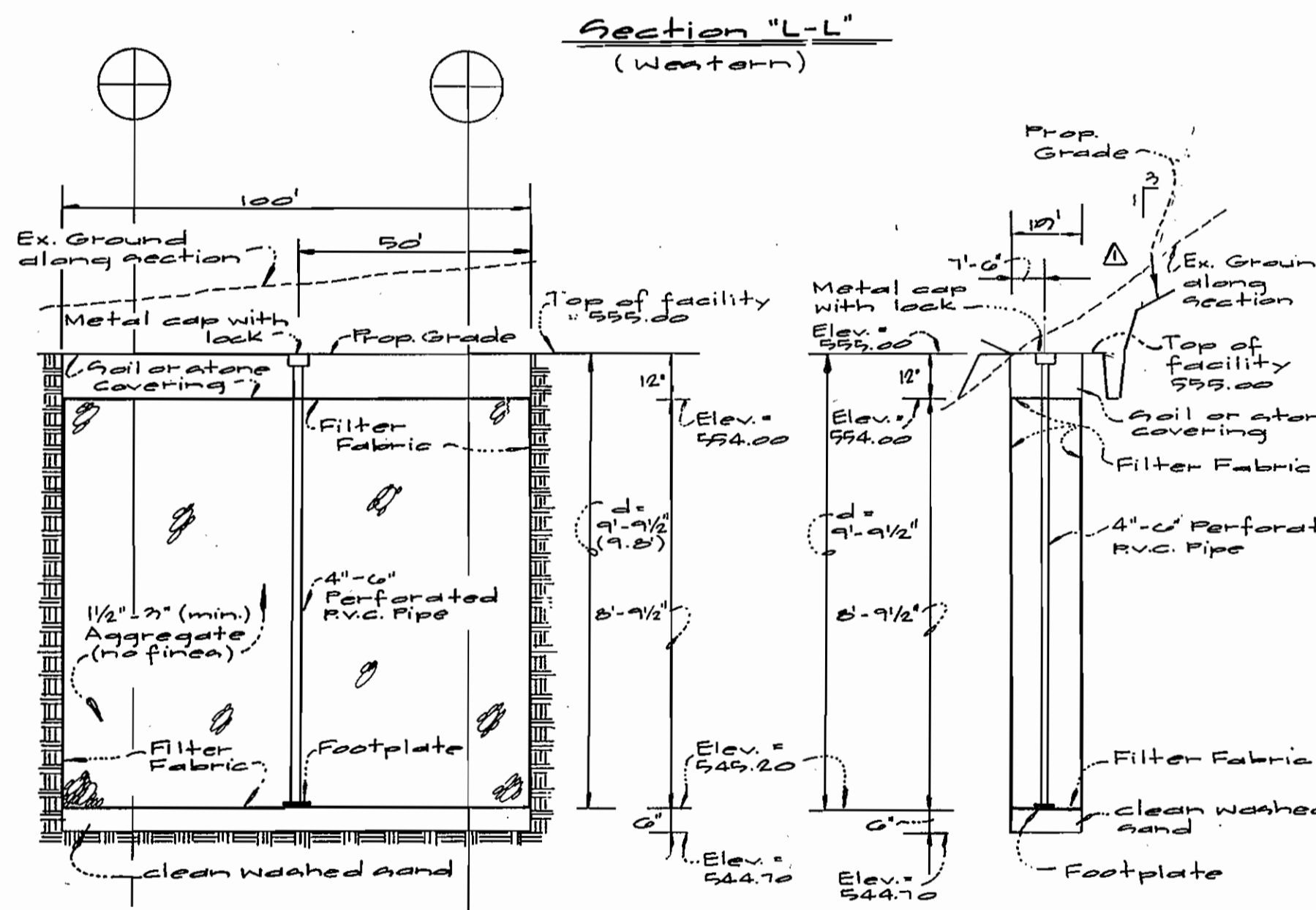
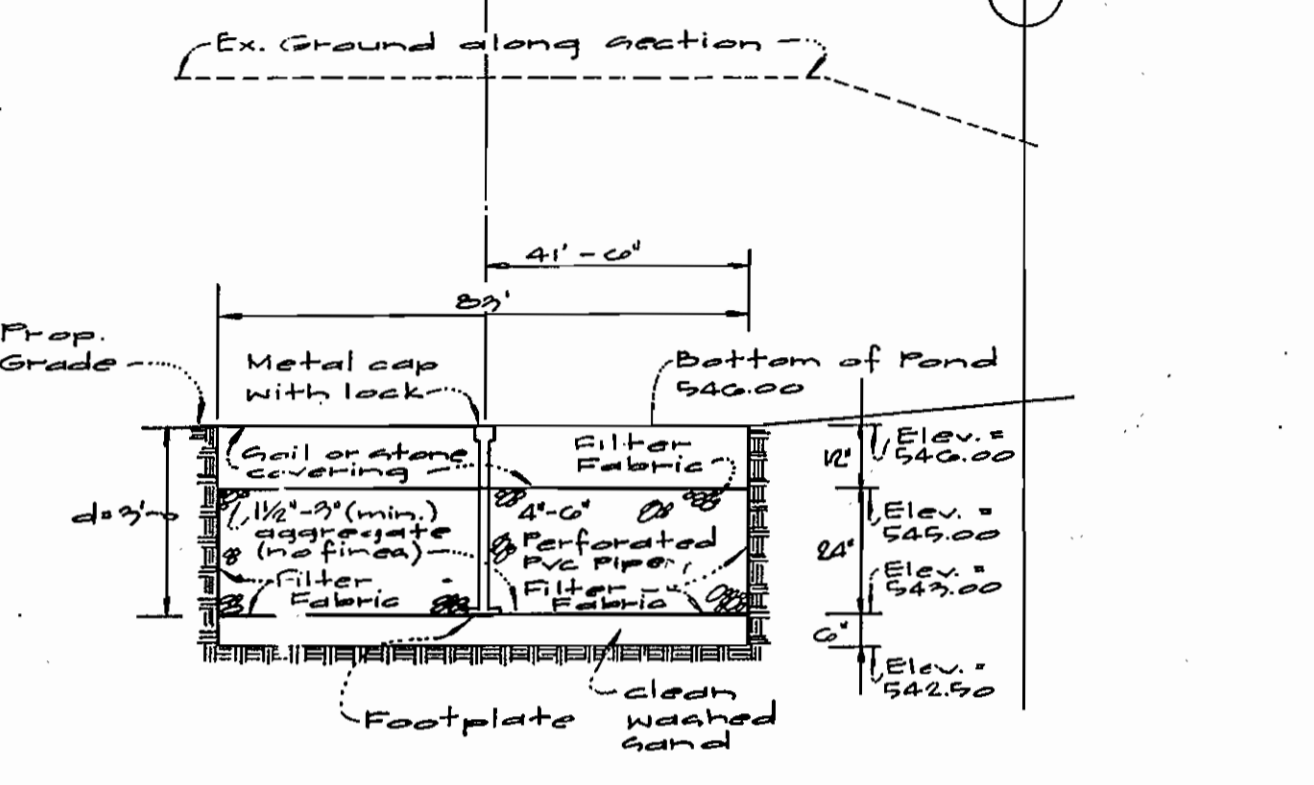
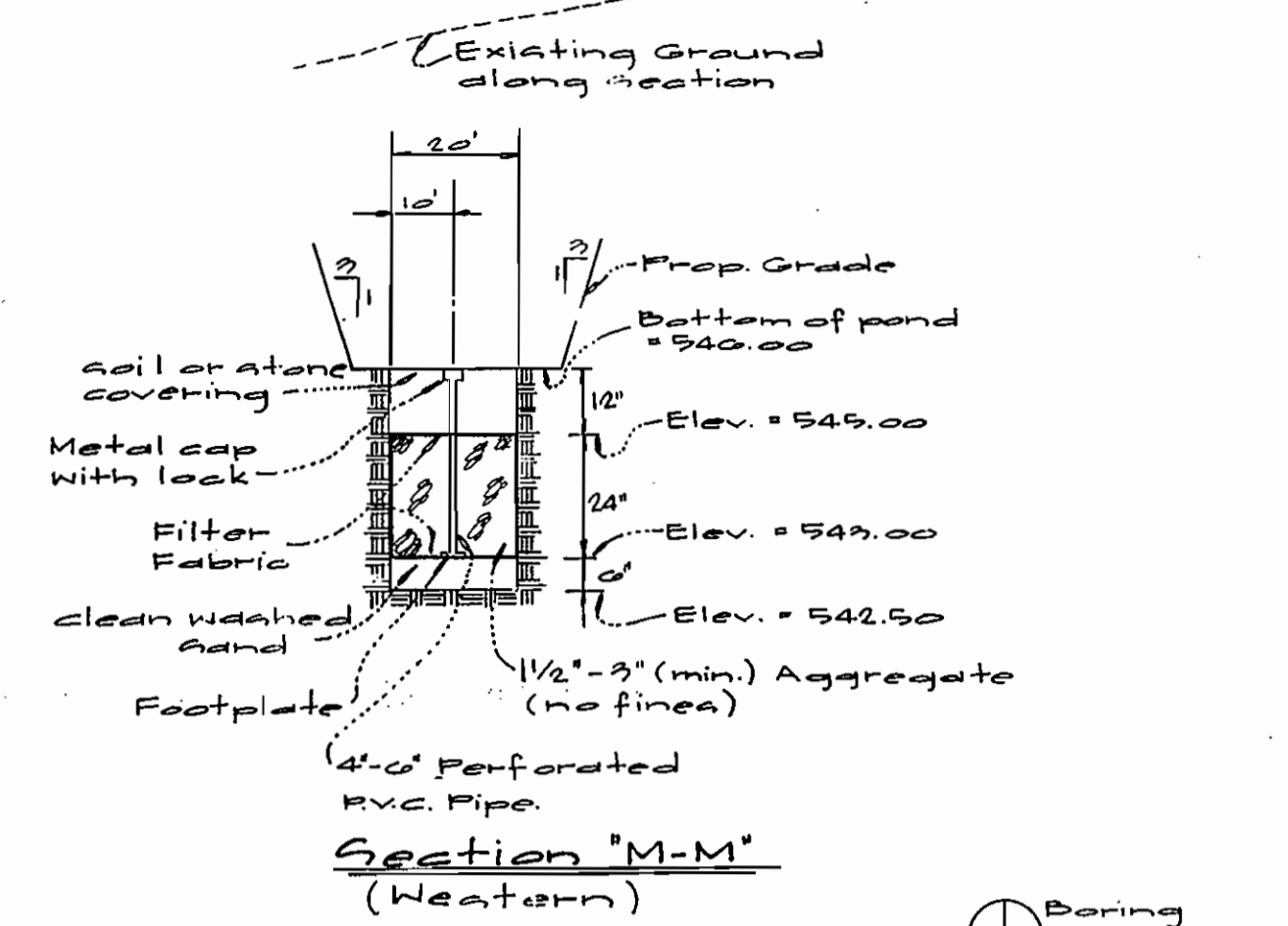


**Notes for Infiltration Systems**

1. Contractor shall mark depth of observation well on cap at time of installation.
2. The G layer of sand at the bottom of the facility must conform to ASTM D 2457-92 specifications.
3. Aggregate backfill must meet ASTM D 442, size no. 1 specifications.



BORING LOG					BORING LOG				
CLIENT	PROJECT	DATE	DATE	DATE	CLIENT	PROJECT	DATE	DATE	DATE
CLIFFORD COUNTY PUBLIC SCHOOLS	PROJECT CLIFFORD COUNTY PUBLIC SCHOOLS	08/13/09	08/13/09	08/13/09	CLIFFORD COUNTY PUBLIC SCHOOLS	PROJECT CLIFFORD COUNTY PUBLIC SCHOOLS	08/13/09	08/13/09	08/13/09
PROJECT: CLIFFORD COUNTY PUBLIC SCHOOLS	PROJECT: CLIFFORD COUNTY PUBLIC SCHOOLS	08/13/09	08/13/09	08/13/09	PROJECT: CLIFFORD COUNTY PUBLIC SCHOOLS	PROJECT: CLIFFORD COUNTY PUBLIC SCHOOLS	08/13/09	08/13/09	08/13/09
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DESCRIPTION OF MATERIAL	DESCRIPTION OF MATERIAL	DESCRIPTION OF MATERIAL	DESCRIPTION OF MATERIAL	DESCRIPTION OF MATERIAL	DESCRIPTION OF MATERIAL	DESCRIPTION OF MATERIAL	DESCRIPTION OF MATERIAL	DESCRIPTION OF MATERIAL	DESCRIPTION OF MATERIAL
1' Topsoil	1' Topsoil	1' Topsoil	1' Topsoil	1' Topsoil	1' Topsoil	1' Topsoil	1' Topsoil	1' Topsoil	1' Topsoil
2' Sand, silt and clay with shells	2' Sand, silt and clay with shells	2' Sand, silt and clay with shells	2' Sand, silt and clay with shells	2' Sand, silt and clay with shells	2' Sand, silt and clay with shells	2' Sand, silt and clay with shells	2' Sand, silt and clay with shells	2' Sand, silt and clay with shells	2' Sand, silt and clay with shells
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10' Sand, silt and clay with shells	10' Sand, silt and clay with shells	10' Sand, silt and clay with shells	10' Sand, silt and clay with shells	10' Sand, silt and clay with shells	10' Sand, silt and clay with shells	10' Sand, silt and clay with shells	10' Sand, silt and clay with shells	10' Sand, silt and clay with shells	10' Sand, silt and clay with shells



**Operation And Maintenance Schedule For Privately Owned & Maintained Infiltration Trench**

1. Removal of silt from the surface when accumulation exceeds one (1) inch.
2. Removal of accumulated paper, trash and debris as necessary.
3. Vegetation growing within the trench area is not allowed to exceed 18 inches in height at any time.
4. Corrective maintenance is required any time the trench does not drain down completely within 90 hours (i.e. no standing water within the trench is allowed.)
5. Inspection of the observation well after every major storm event.
6. Annual inspection and repair of the structure.

APPROVED: FOR PRIVATE WATER & SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT.  
 County Health Officer  
 Date: 2-26-02

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING  
 Director  
 Date: 2/27/02

Chief, Division of Land Development  
 Date: 2/27/02

Chief, Development Engineering Division  
 Date: 2/27/02



**GLW GUTSCHICK LITTLE & WEBER, P.A.**  
 CIVIL ENGINEERS, LAND SURVEYORS, LAND PLANNERS, LANDSCAPE ARCHITECTS  
 3909 NATIONAL DRIVE - SUITE 250 - BURTONSVILLE OFFICE PARK  
 BURTONSVILLE, MARYLAND 20886  
 TEL: 301-421-4024 FAX: 301-421-4188

PREPARED FOR:  
 HOWARD COUNTY BOARD OF EDUCATION  
 10910 ROUTE 108  
 ELLOCOTT CITY, MD 21043  
 ATTN: CATHEEN CONLEY YOUNG  
 TEL: (410) 313-6704

POND SPECIFICATIONS, SWM DETAILS & SOIL BORINGS  
**GLENELG HIGH SCHOOL**  
 PARCELS 121, 11 & 169

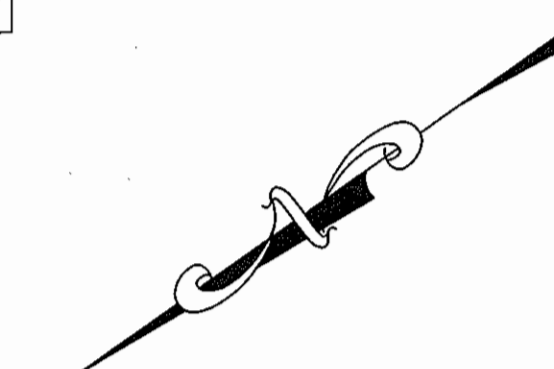
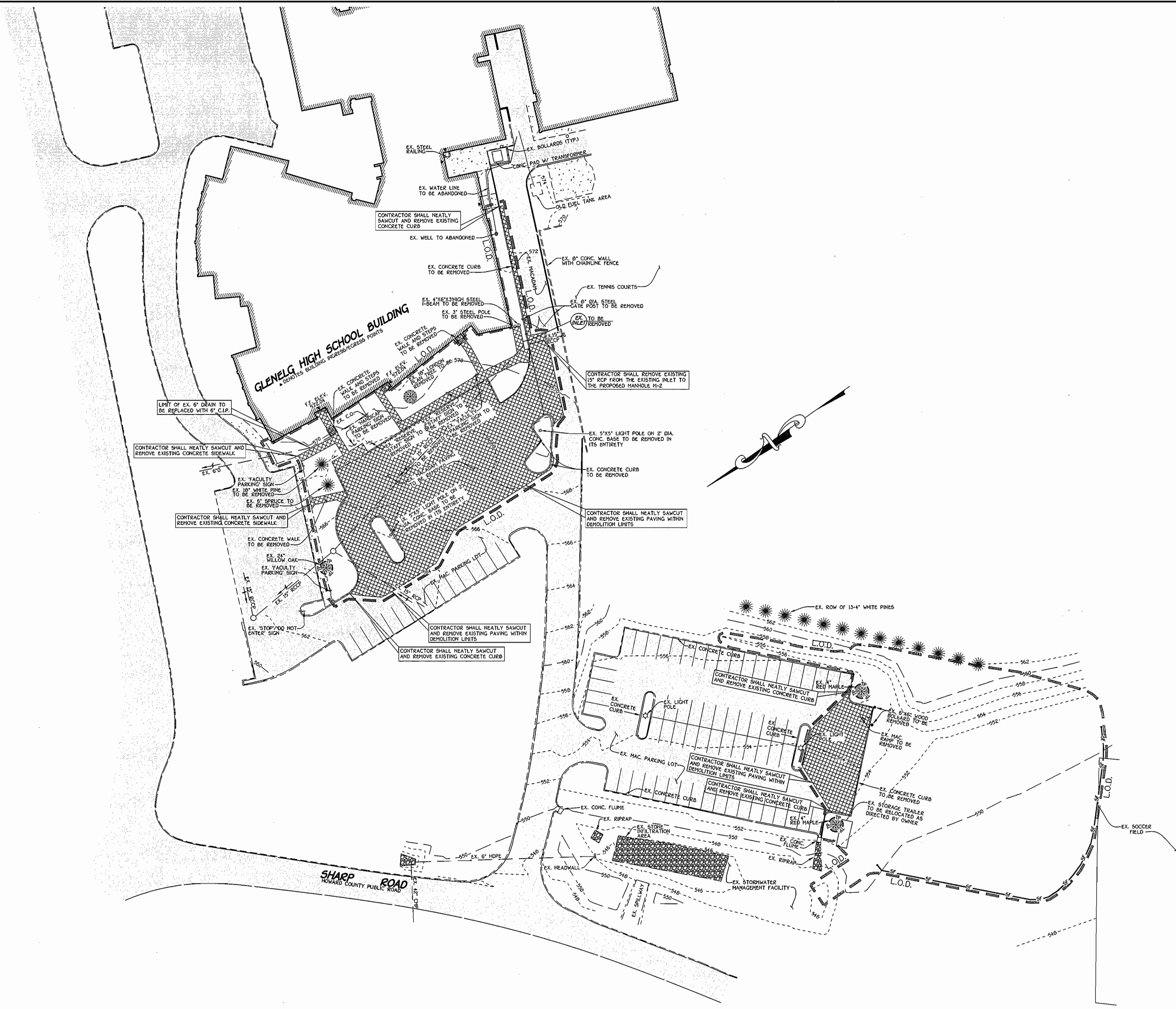
SCALE	ZONING	G. L. W. FILE NO.
AS SHOWN	RR-DEO	99049
DATE	TAX MAP - GRID	SHEET
1/3/02	21	7 OF 11

NO. 90-07	CHANGED SHEET NUMBERS	REVISION	BY	APPR.
4-29-09	Rev. Infil trench Sect N-N to accommodate add imp. area generated by GWS plans SDP-00-120			

ELECTION DISTRICT No. 4

HOWARD COUNTY, MARYLAND

SDP-00-069



NOTE: THE PURPOSE OF THIS PLAN IS FOR DEMOLITION FOR THE PROPOSED BUILDING ADDITION AND PARKING LOT ADDITION.

**NOTE:**  
 DENOTES APPROXIMATE DEMOLITION AREA.

**FISHER, COLLINS & CARTER, INC.**  
 CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS  
 CENTENNIAL SQUARE OFFICE PARK - 10772 BALTIMORE NATIONAL PIKE  
 ELLICOTT CITY, MARYLAND 21042  
 410-481-2899

DATE	DESCRIPTION
5/11/07	ADDED THIS SHEET FOR PROPOSED BUILDING ADDITION AND PARKING LOT ADDITIONS.
	REVISION BLOCK
APPROVED: DEPARTMENT OF PLANNING AND ZONING	
<i>David A. Wyle</i>	11/15/07
Director - Department of Planning and Zoning	Date
<i>Charles E. Smith</i>	11/15/07
Chief, Division of Planning and Development	Date
<i>William J. ...</i>	11/12/07
Chief, Development Engineering Division	Date

PREPARED FOR  
 HOWARD COUNTY PUBLIC SCHOOL SYSTEM  
 10910 Maryland Route 108  
 Ellicott City, Maryland 21042  
 Attention: Bruce Gist  
 410-313-6805

Address Chart					
Parcel Number	Street Address				
P. 121, 11, 169	14025 BURNT WOODS ROAD				
	GLENELG, MARYLAND 21737				
PROJECT	SECTION/AREA	PARCEL			
GLENELG HIGH SCHOOL	N/A	121, 11, 169			
DEED REF.	BLOCK NO.	ZONE	TAX MAP	ELEC. DIST.	CENSUS TR.
452/7750 269/127 1015/184	12	RR-DEO	21	4	6040
WATER CODE	PRIVATE			SEWER CODE	PRIVATE

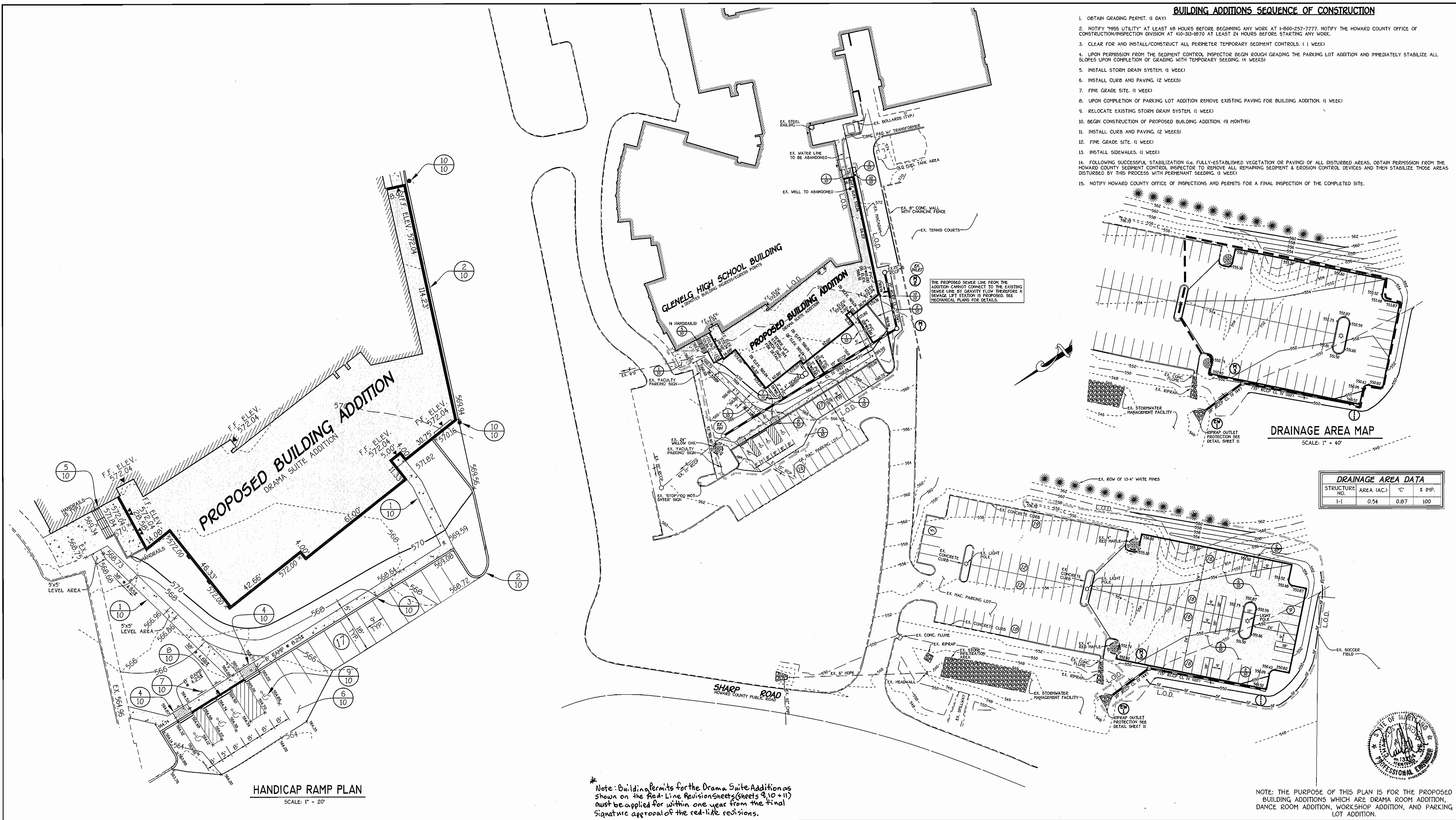
DEMOLITION PLAN			
"REVISED SITE DEVELOPMENT PLAN" <b>GLENELG HIGH SCHOOL</b> DRAMA SUITE BUILDING ADDITION AND PARKING LOT ADDITION			
TAX MAP No.: 21	GRID No.: 12	PARCEL No.: 121, 11, 169	
FOURTH ELECTION DISTRICT	HOWARD COUNTY, MARYLAND	SCALE: 1" = 40'	DATE: OCT 23, 2007
SHEET 8 OF 11		SDP-00-69	

11/20/06/060588/060588.dwg, DEMO PLAN, 11/11/2007 12:46:32 PM, PCD24 - 36 Mplp.dwg, 1:1



**BUILDING ADDITIONS SEQUENCE OF CONSTRUCTION**

1. OBTAIN GRADING PERMIT. (1 DAY)
2. NOTIFY "MISS UTILITY" AT LEAST 48 HOURS BEFORE BEGINNING ANY WORK AT 1-800-257-7777. NOTIFY THE HOWARD COUNTY OFFICE OF CONSTRUCTION/INSPECTION DIVISION AT 410-313-1870 AT LEAST 24 HOURS BEFORE STARTING ANY WORK.
3. CLEAR FOR AND INSTALL/CONSTRUCT ALL PERIMETER TEMPORARY SEDIMENT CONTROLS. (1 WEEK)
4. UPON PERMISSION FROM THE SEDIMENT CONTROL INSPECTOR BEGIN ROUGH GRADING THE PARKING LOT ADDITION AND IMMEDIATELY STABILIZE ALL SLOPES UPON COMPLETION OF GRADING WITH TEMPORARY SEEDING. (4 WEEKS)
5. INSTALL STORM DRAIN SYSTEM. (1 WEEK)
6. INSTALL CURB AND PAVING. (2 WEEKS)
7. FINE GRADE SITE. (1 WEEK)
8. UPON COMPLETION OF PARKING LOT ADDITION REMOVE EXISTING PAVING FOR BUILDING ADDITION. (1 WEEK)
9. RELOCATE EXISTING STORM DRAIN SYSTEM. (1 WEEK)
10. BEGIN CONSTRUCTION OF PROPOSED BUILDING ADDITION. (9 MONTHS)
11. INSTALL CURB AND PAVING. (2 WEEKS)
12. FINE GRADE SITE. (1 WEEK)
13. INSTALL SIDEWALKS. (1 WEEK)
14. FOLLOWING SUCCESSFUL STABILIZATION (i.e. FULLY-ESTABLISHED VEGETATION OR PAVING OF ALL DISTURBED AREAS, OBTAIN PERMISSION FROM THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR TO REMOVE ALL REMAINING SEDIMENT & EROSION CONTROL DEVICES AND THEN STABILIZE THOSE AREAS DISTURBED BY THIS PROCESS WITH PERMANENT SEEDING. (1 WEEK)
15. NOTIFY HOWARD COUNTY OFFICE OF INSPECTIONS AND PERMITS FOR A FINAL INSPECTION OF THE COMPLETED SITE.



**DRAINAGE AREA MAP**

SCALE: 1" = 40'

DRAINAGE AREA DATA			
STRUCTURE NO.	AREA (AC.)	C'	X IMP.
I-1	0.54	0.87	100

**HANDICAP RAMP PLAN**

SCALE: 1" = 20'

\* Note: Building permits for the Drama Suite Addition as shown on the Red-Line Revision Sheets (Sheets 9, 10 + 11) must be applied for within one year from the final signature approval of the red-line revisions.

NOTE: THE PURPOSE OF THIS PLAN IS FOR THE PROPOSED BUILDING ADDITIONS WHICH ARE DRAMA ROOM ADDITION, DANCE ROOM ADDITION, WORKSHOP ADDITION, AND PARKING LOT ADDITION.



**ENGINEER'S CERTIFICATE**

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

*[Signature]*  
Signature of Engineer  
11/1/07  
Date

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

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

**DEVELOPER'S CERTIFICATE**

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

*[Signature]*  
Bruce Gist, Director School Planning and Construction  
11/1/07  
Date

Approved: This Development is Approved For Erosion and Sediment Control By The Howard Soil Conservation District.

*[Signature]*  
John M. Hanson  
11/7/07  
Date  
District: Howard Soil Conservation Dist.

5/4/07 ADDED THIS SHEET FOR PROPOSED BUILDING ADDITION AND PARKING LOT ADDITIONS/DRAMA SUITE.

DATE DESCRIPTION

REVISION BLOCK

APPROVED: DEPARTMENT OF PLANNING AND ZONING

*[Signature]*  
Date: 11/15/07  
Director - Department of Planning and Zoning

*[Signature]*  
Date: 11/13/07  
Chief, Development Engineering Division

PREPARED FOR  
HOWARD COUNTY PUBLIC SCHOOL SYSTEM  
10910 Maryland Route 108  
Ellicott City, Maryland 21042  
Attention: Bruce Gist  
410-313-6205

Address Chart

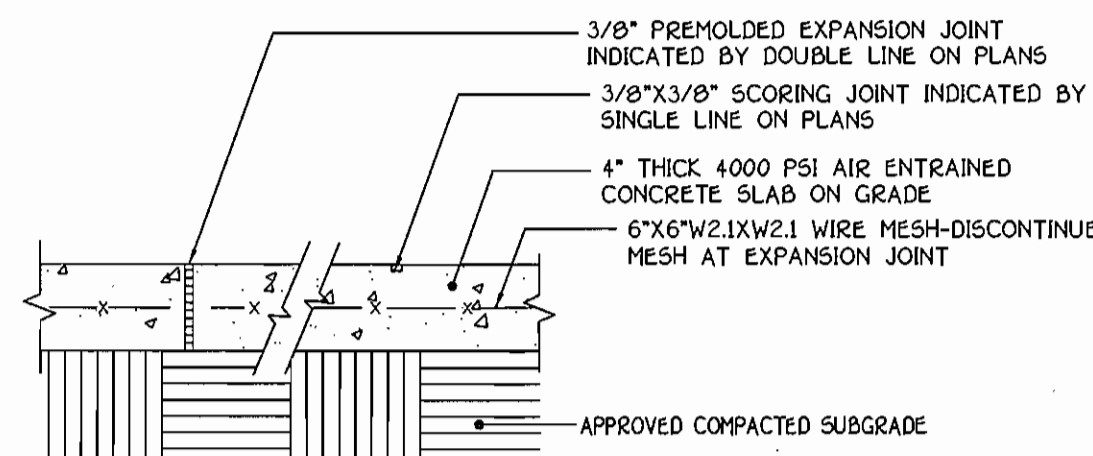
Parcel Number	Street Address
P. 121, 11, 169	14025 BURNT WOODS ROAD
	GLENELG, MARYLAND 21737

PROJECT	SECTION/AREA	PARCEL
GLENELG HIGH SCHOOL	N/A	121, 11, 169
DEED REF. 482/750		
269/427		
1015/484		
WATER CODE	PRIVATE	SEWER CODE PRIVATE

**SITE DEVELOPMENT PLAN AND SEDIMENT CONTROL PLAN**

"REVISED SITE DEVELOPMENT PLAN"  
**GLENELG HIGH SCHOOL**  
DRAMA SUITE BUILDING ADDITION  
AND PARKING LOT ADDITION

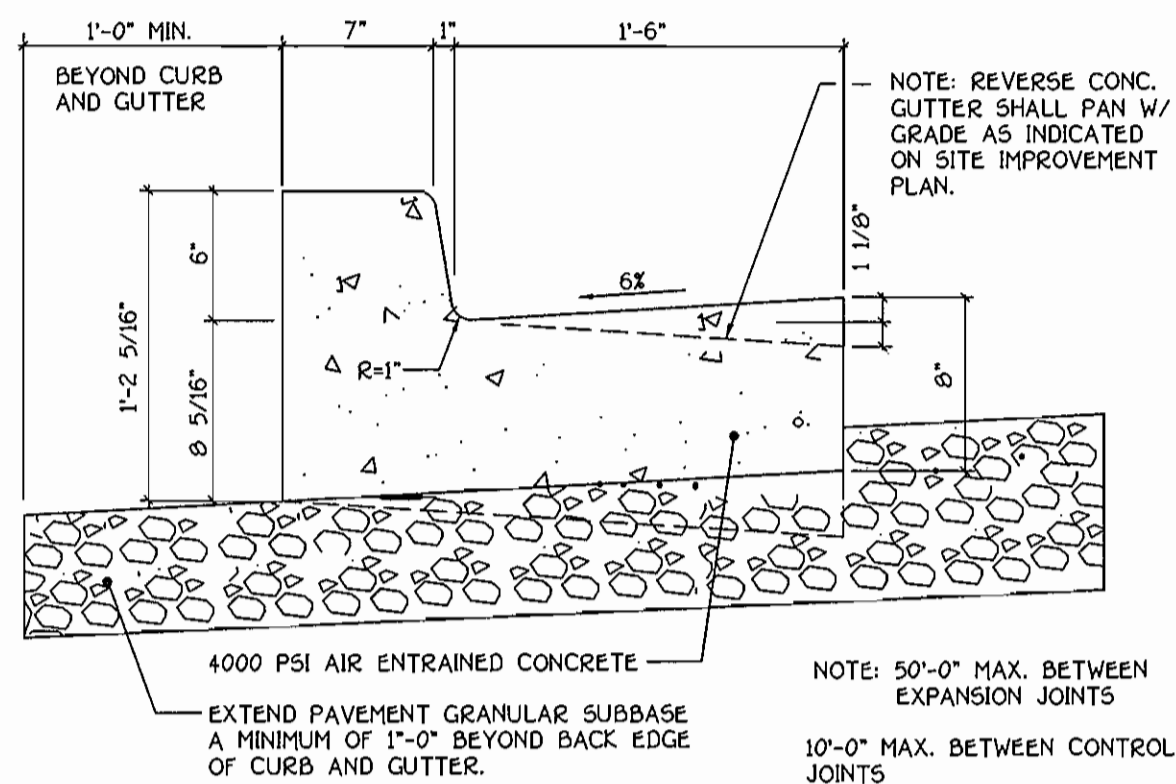
TAX MAP No.: 21 GRID No.: 12 PARCEL No.: 121, 11, 169  
FOURTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND  
SCALE: 1" = 40' DATE: OCT 23, 2007



NOTE: INSTALL EXPANSION JOINTS AT MAX. 15'-0" O.C. AND INSTALL SCORING JOINTS AT MAX. 5'-0" O.C.

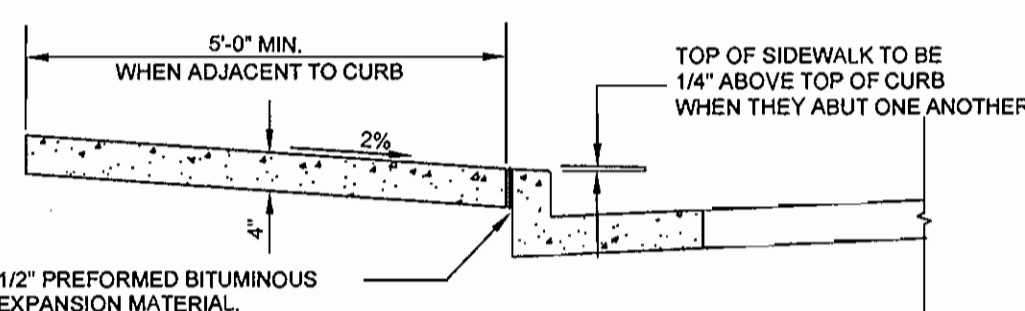
**1 CONCRETE WALK DETAIL**

HOWARD COUNTY DETAIL NOTED IS FOR REFERENCE ONLY  
SCALE: 1 1/2"=1'-0"



**2 CONCRETE CURB AND GUTTER DETAIL**

NOT TO SCALE



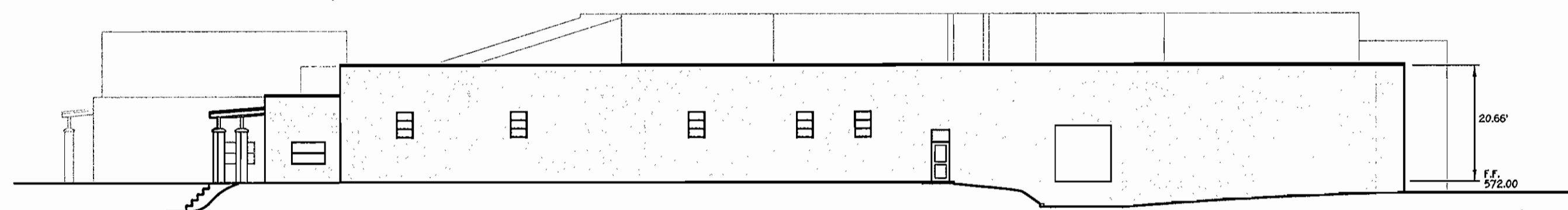
**5 CONCRETE STEPS AND HANDRAIL DETAIL**

NO SCALE

- NOTES:
- SIDEWALK TO BE SCRIBED IN 5'-0" MAXIMUM SQUARES.
  - EXPANSION JOINTS ACROSS THE SIDEWALK NOT TO MORE THAN 15' APART.
  - 12" PREFORMED BITUMINOUS EXPANSION MATERIAL IN EXPANSION JOINTS TO BE KEPT 1/4" BELOW SURFACE OF SIDEWALK.
  - CONCRETE TO BE MIX NO. 2.
  - WHEN SIDEWALK ABUTS CURB, WALK SHALL BE 1/4" ABOVE CURB WITH 1/2" PREFORMED BITUMINOUS EXPANSION MATERIAL BETWEEN SIDEWALK AND CURB.
  - ON LONGITUDINAL SIDEWALK GRADES OF 5% OR GREATER, A CONCRETE HEADER, 6" THICK AND 6" DEEP BELOW THE NORMAL 4" SIDEWALK THICKNESS SHALL BE CONSTRUCTED FOR THE FULL WIDTH OF THE SIDEWALK AT INTERVALS OF 48 FEET. THE HEADERS SHALL BE PLACED AT EXPANSION JOINT LOCATIONS AND SHALL BE MONOLITHIC WITH THE SIDEWALK.
  - SIDEWALK WIDTH ADJACENT TO CURB SHALL BE 5'-0" MIN.
  - SIDEWALK LOCATED 2' OR MORE FROM CURB MAY BE 4'-0" IN WIDTH WITH A 5' X 5' PAVED SECTION PLACED 200' APART.

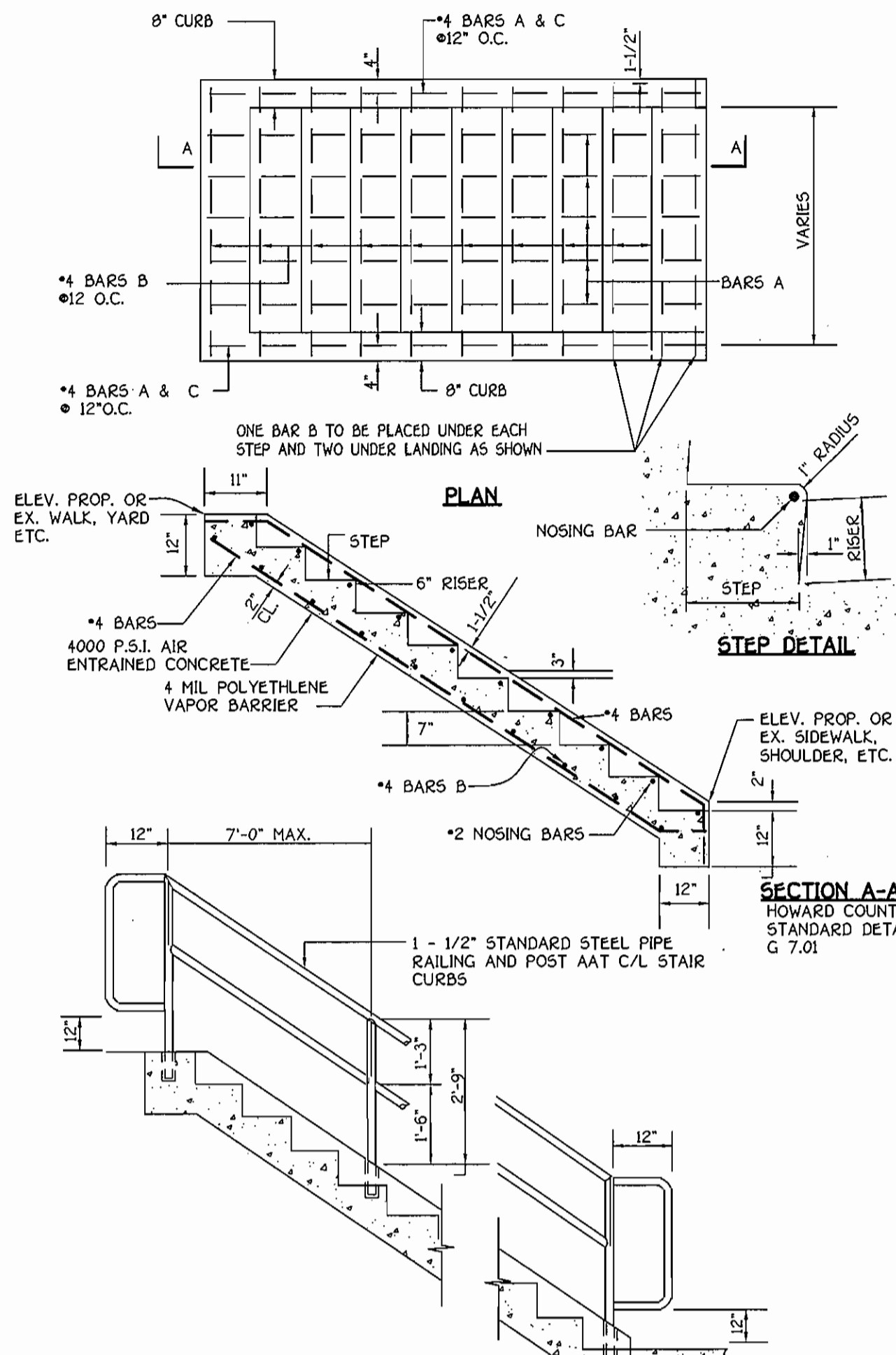
**3 CONCRETE SIDEWALK DETAIL ADJACENT TO CONCRETE CURB**

NO SCALE



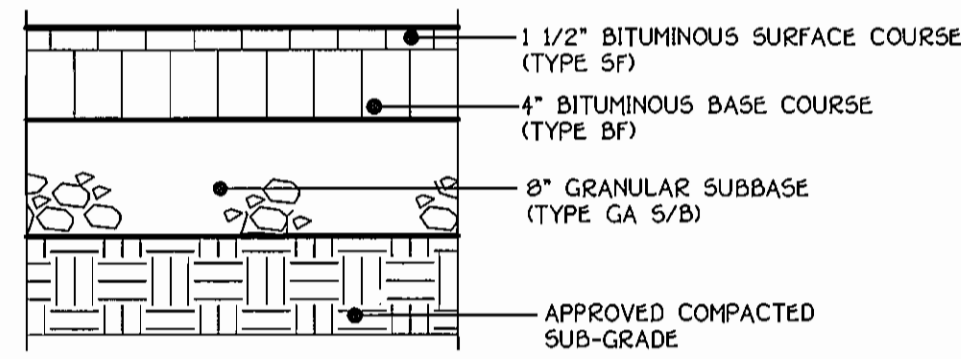
**DRAMA SUITE BUILDING ELEVATION**

SCALE: 1" = 20'



**5 CONCRETE STEPS AND HANDRAIL DETAIL**

NO SCALE



**6 LIGHT DUTY ASPHALTIC PAVING DETAIL**

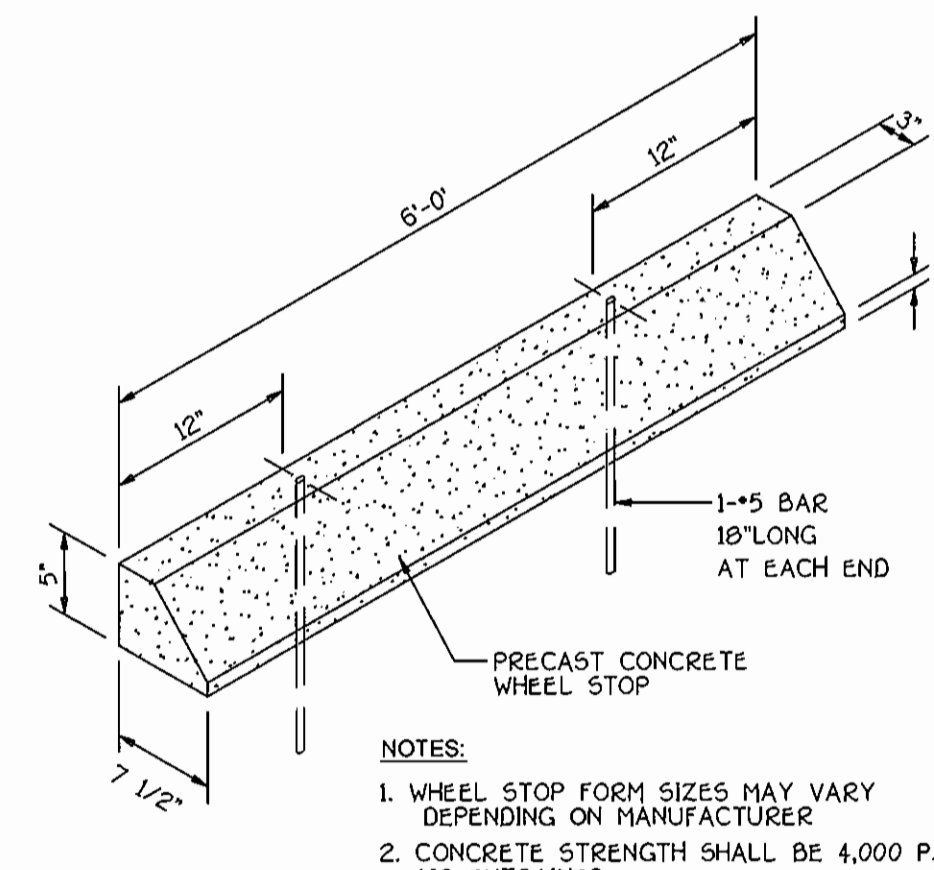
NO SCALE



**7 HANDICAP PARKING SIGN DETAIL**

NOT TO SCALE

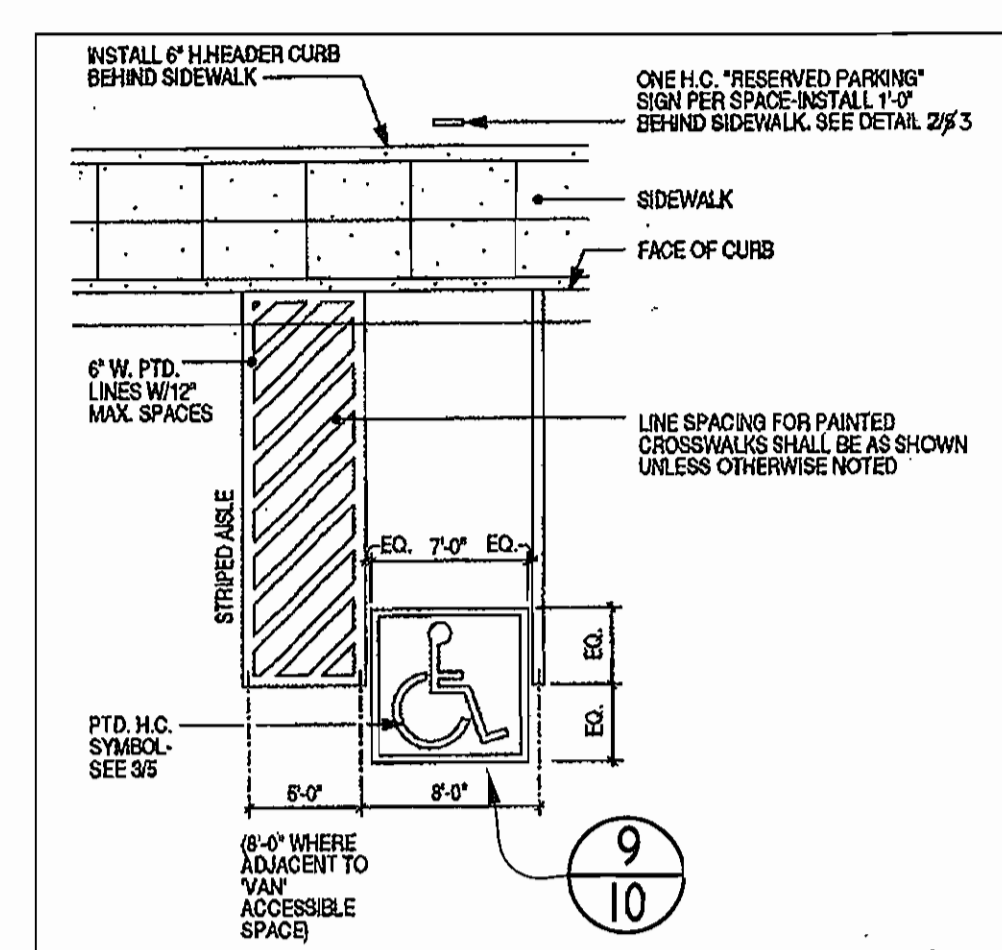
- GENERAL NOTES:
- SIGNS SHALL MEET DESIGN STANDARDS OF THE FEDERAL HIGHWAY ADMINISTRATION AND CONFORM TO THE STATE OF MARYLAND STANDARD HIGHWAY SIGN BOOKLET DETAIL R7-B.
  - ONE SIGN IS REQUIRED PER SPACE PLACED AS SHOWN ON SITE IMPROVEMENT PLAN.
  - SIGNS SHALL BE POLE MOUNTED WITH HOT DIPPED GALVANIZED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



**8 WHEEL STOP DETAIL**

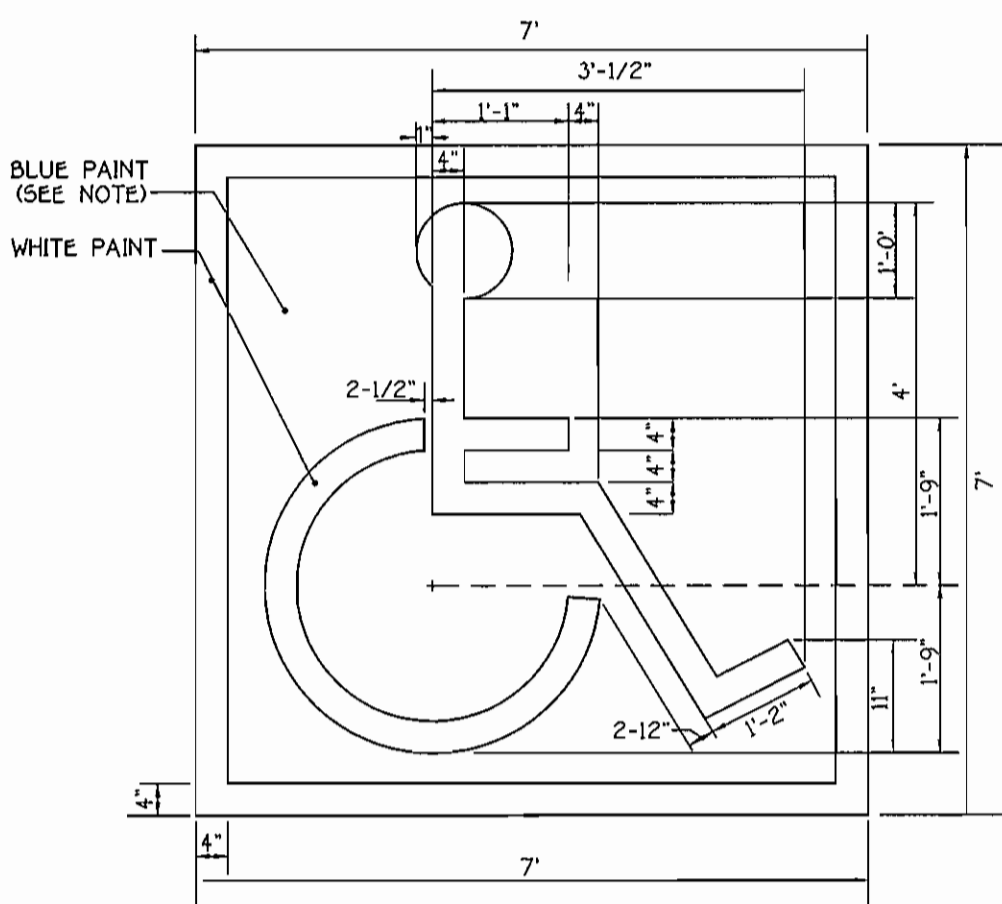
NO SCALE

- NOTES:
- WHEEL STOP FORM SIZES MAY VARY DEPENDING ON MANUFACTURER
  - CONCRETE STRENGTH SHALL BE 4,000 P.S.I. AIR ENTRAINED



**ACCESSIBLE SPACE LAYOUT**

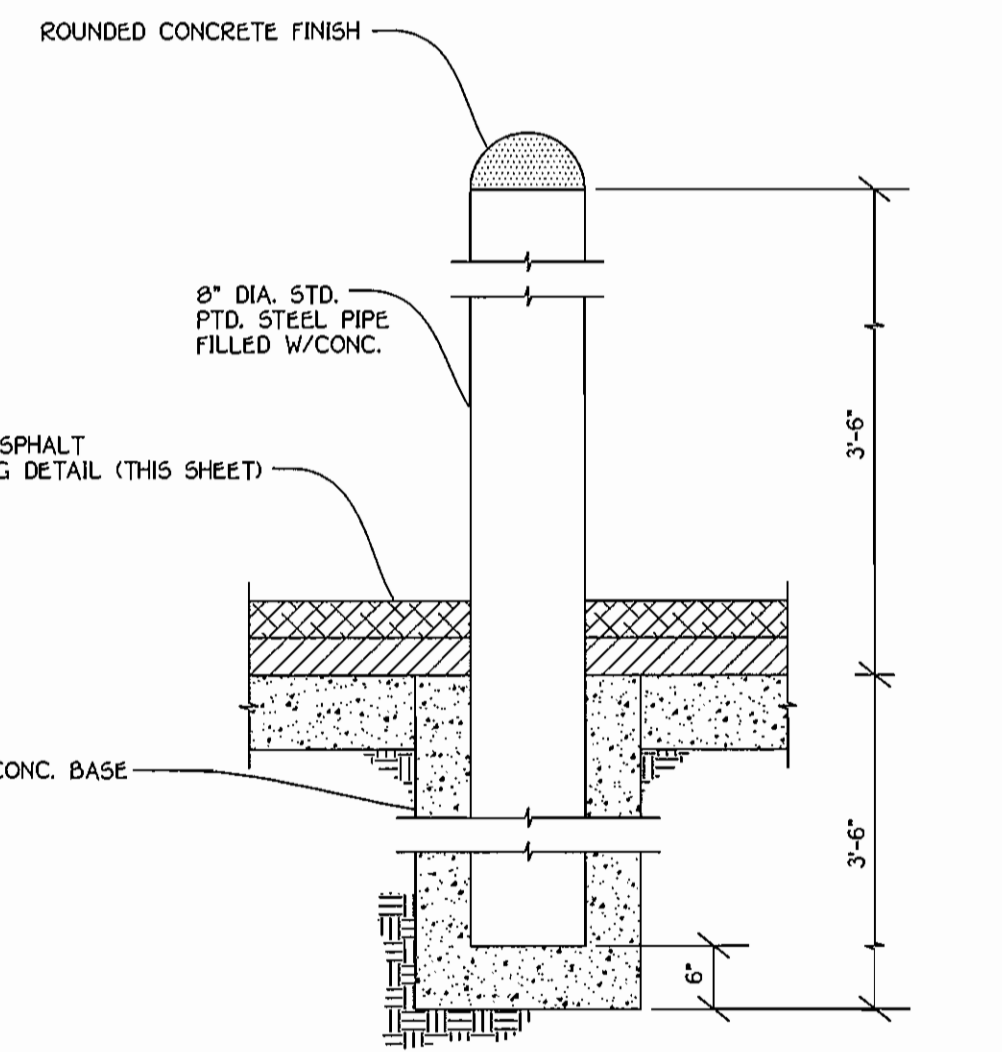
NO SCALE



**9 HANDICAP SPACE STENCIL LAYOUT**

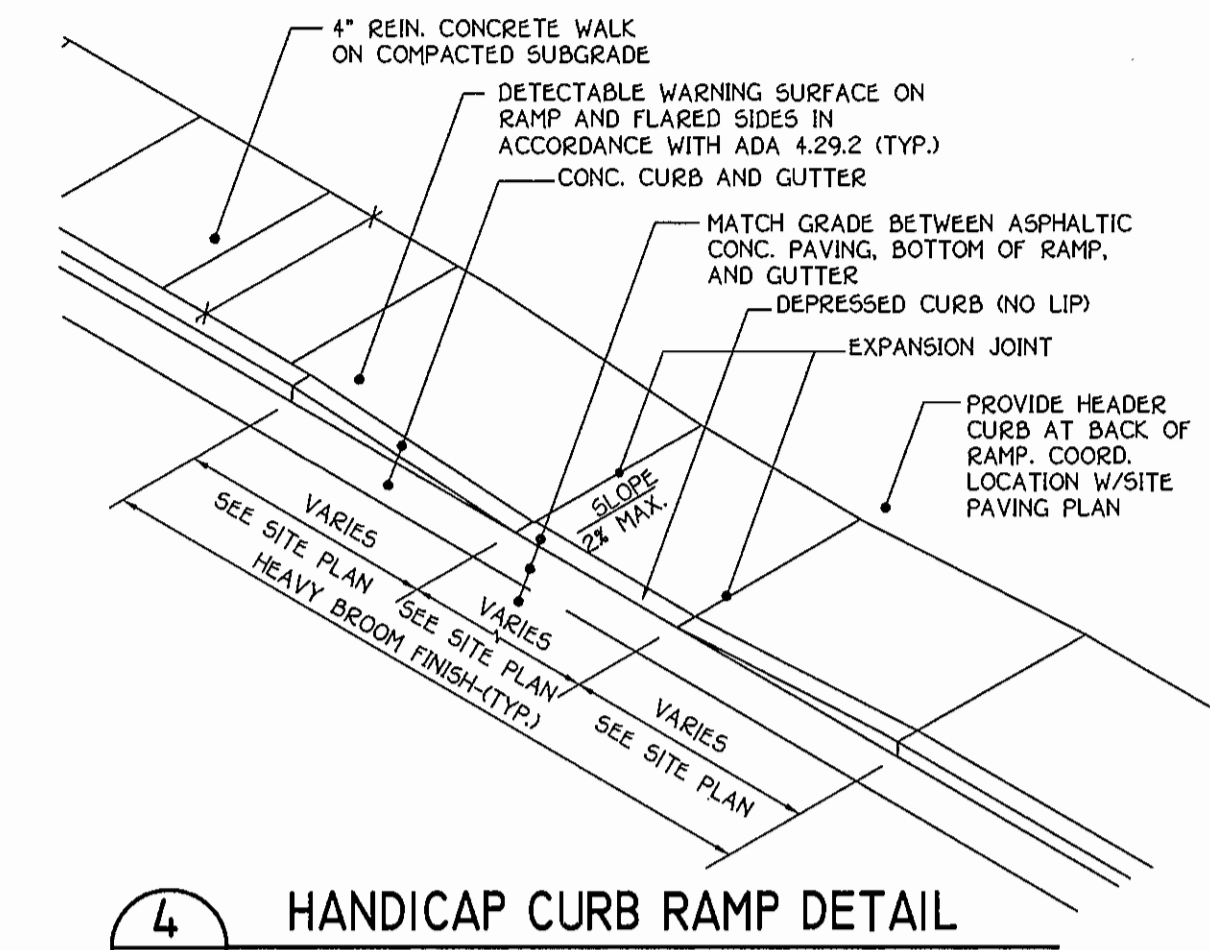
SCALE: 1" = 20'

NOTE: SYMBOL IS REQUIRED TO CONTRAST WITH BACKGROUND (WHITE ON BLUE; COLOR NO. 105090 IN FED. STANDARD 5952-DOUBLE COAT TYP.)



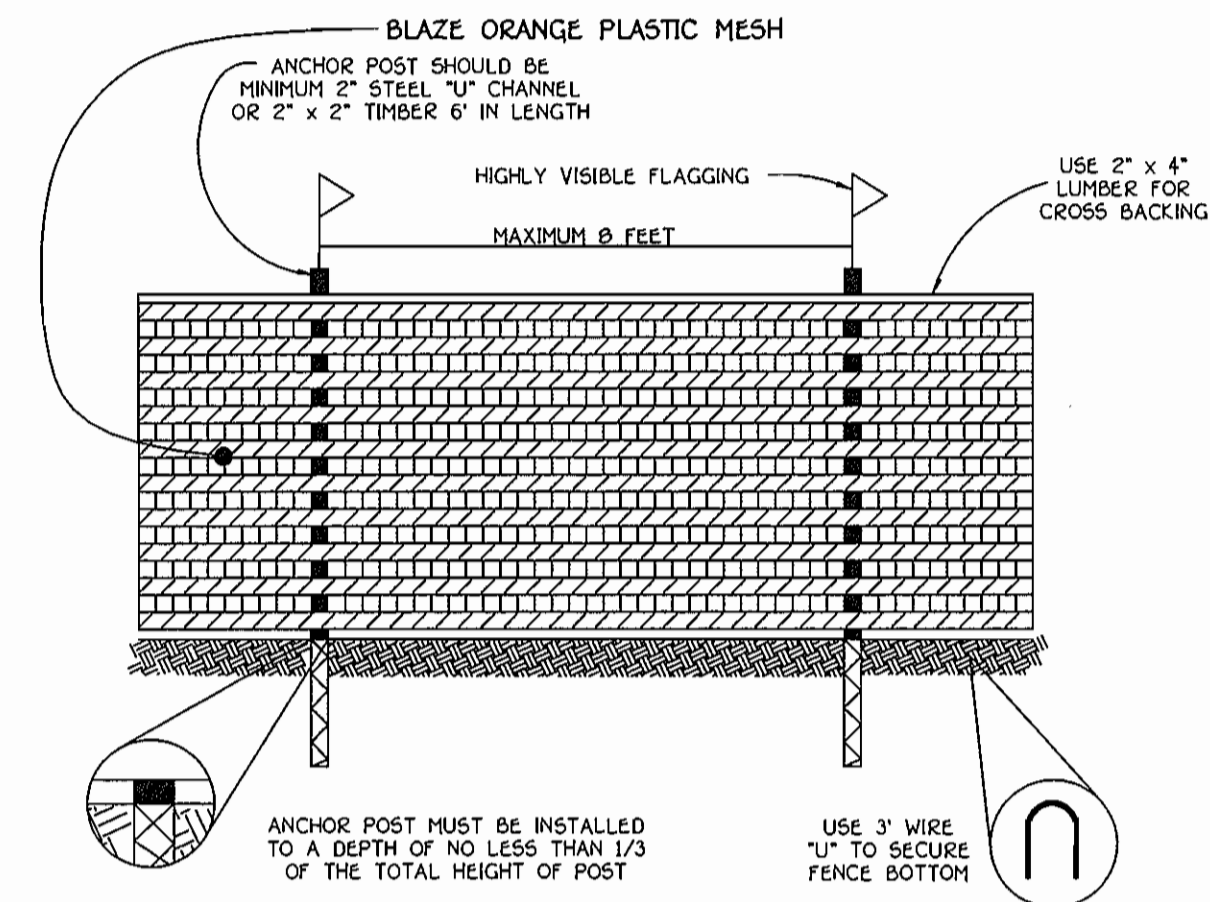
**10 BOLLARD DETAIL**

NO SCALE



**4 HANDICAP CURB RAMP DETAIL**

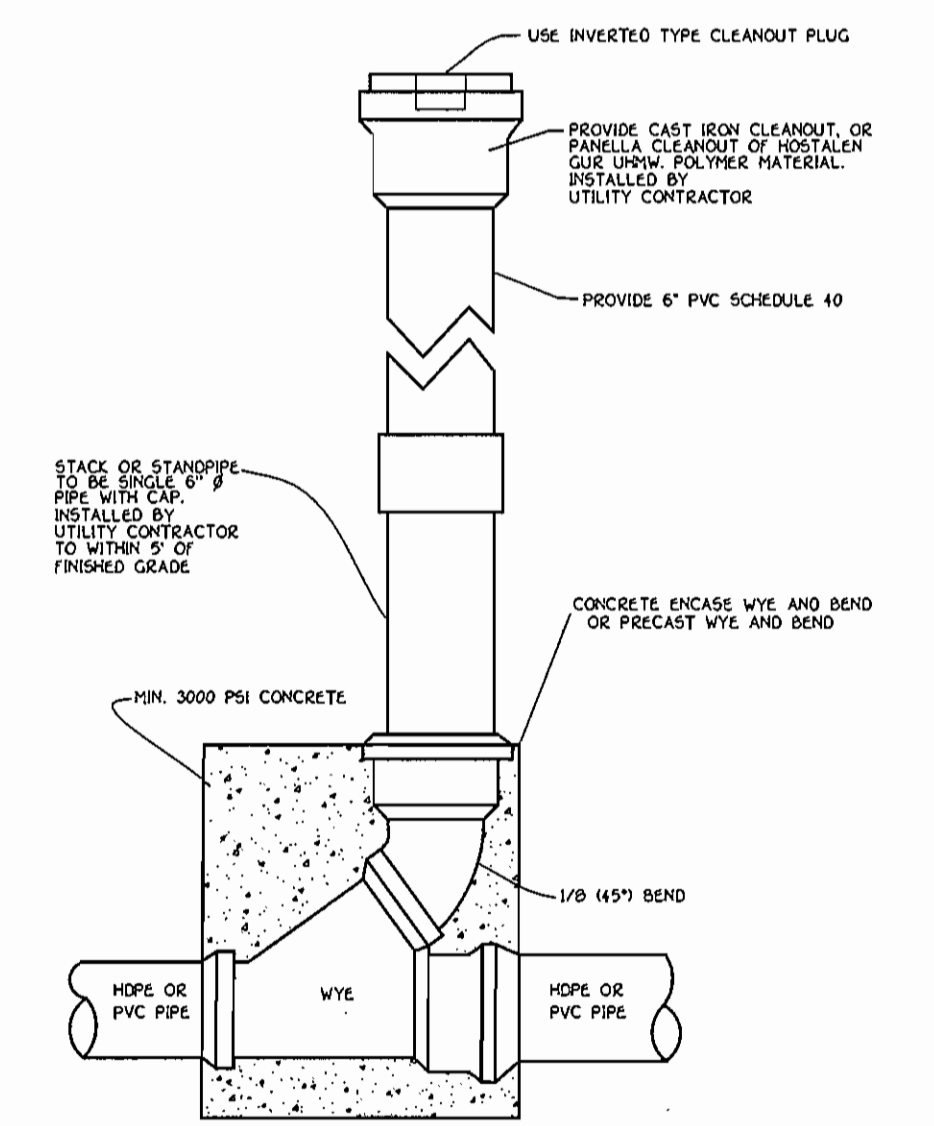
NO SCALE



**TREE PROTECTION DETAIL**

NOT TO SCALE

- NOTES:
- FOREST PROTECTION DEVICE ONLY.
  - RETENTION AREA WILL BE SET AS PART OF THE REVIEW PROCESS.
  - BOUNDARIES OF RETENTION AREA SHOULD BE STAKED AND FLAGGED PRIOR TO INSTALLING DEVICE.
  - ROOT DAMAGE SHOULD BE AVOIDED.
  - PROTECTIVE SIGNAGE MAY ALSO BE USED.
  - DEVICE SHOULD BE MAINTAINED THROUGHOUT CONSTRUCTION.



**TYPICAL ROOF LEADER CLEAN-OUT**

NO SCALE

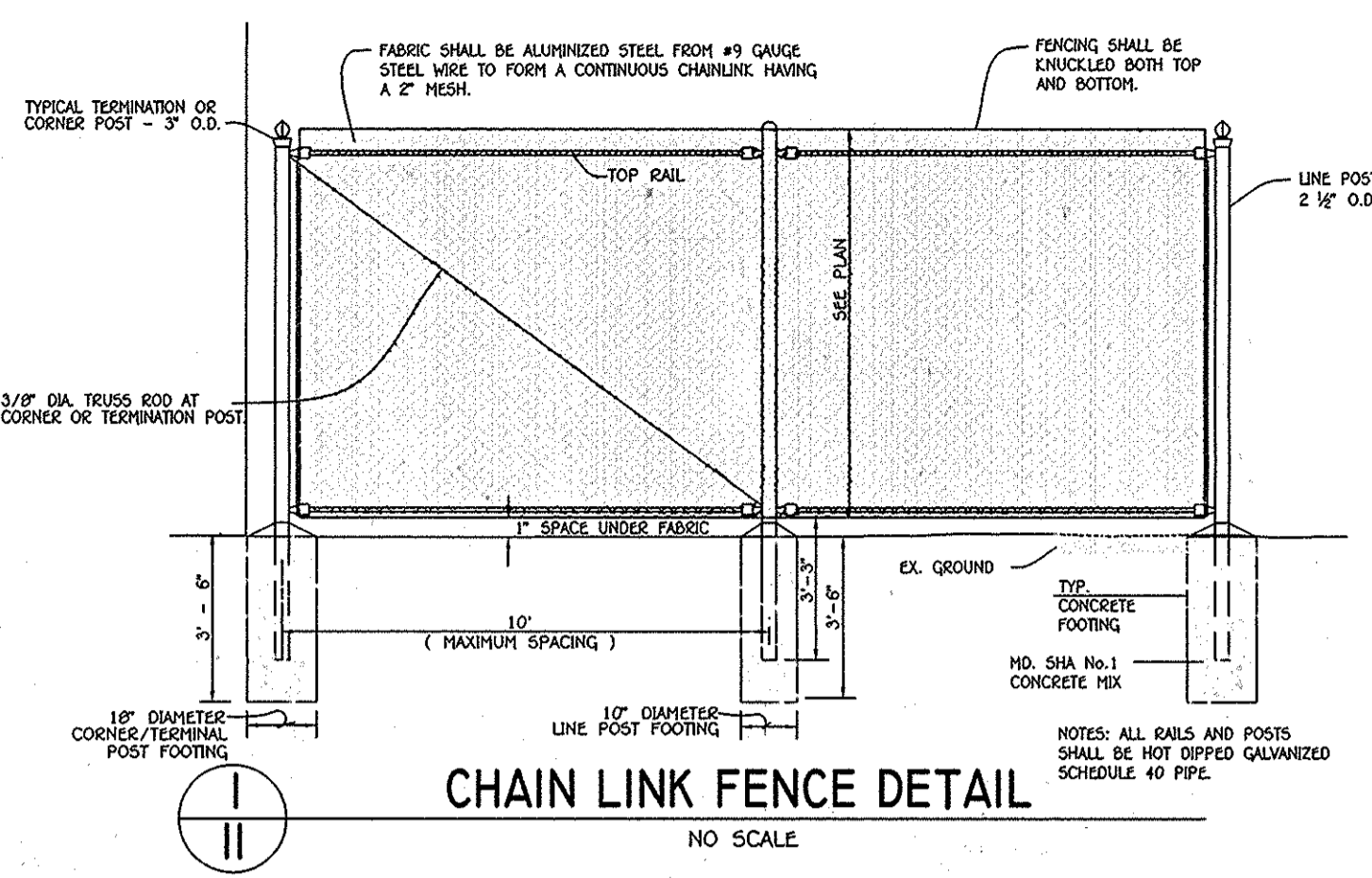
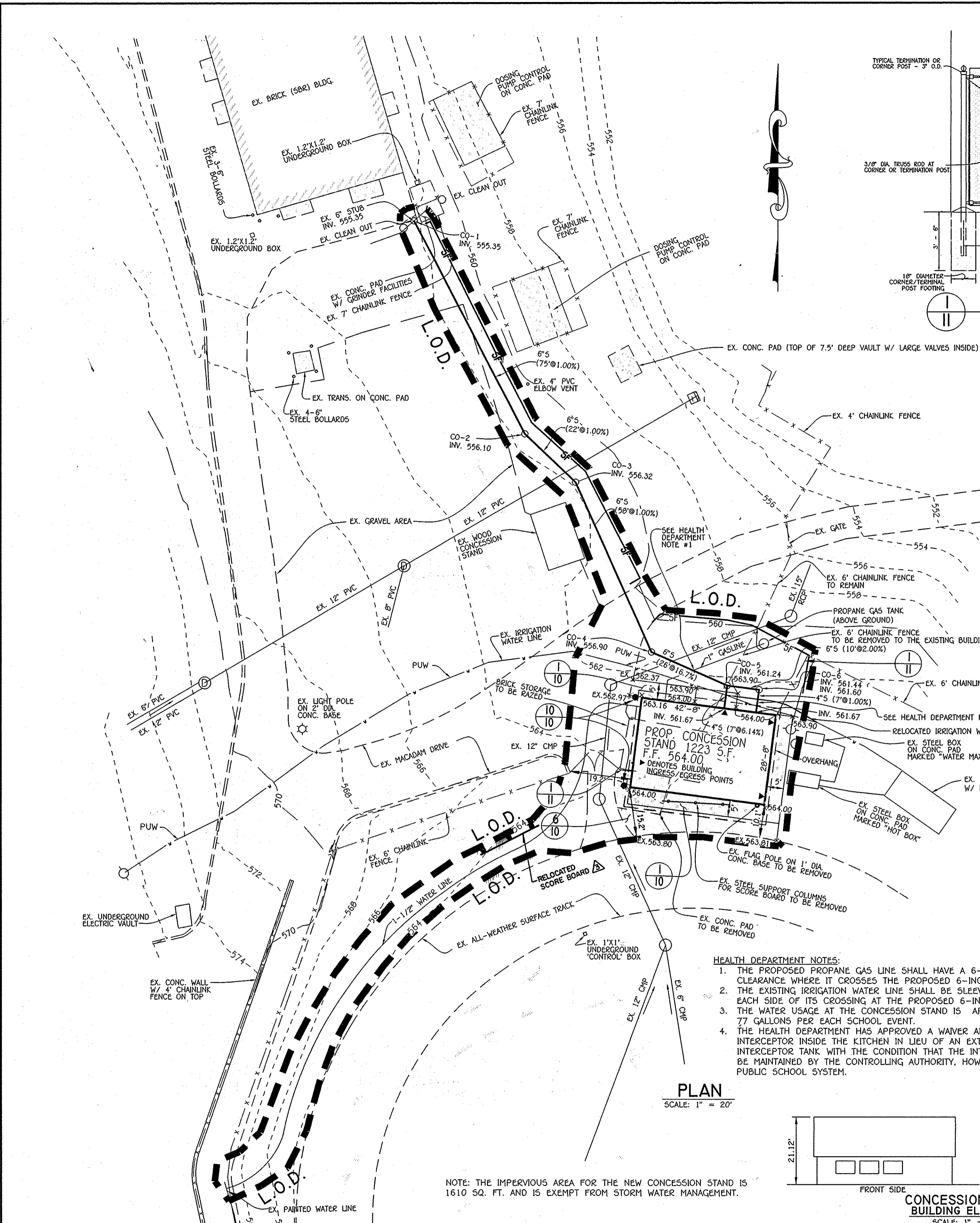
**FISHER, COLLINS & CARTER, INC.**  
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS  
CORPORATE OFFICE: 10722 BALTIMORE NATIONAL PIKE  
ELICOTT CITY, MARYLAND 21042  
410-481-1000

5/4/07	ADDED THIS SHEET FOR DETAILS AND BUILDING ELEVATIONS.
DATE	DESCRIPTION
	REVISION BLOCK
APPROVED: DEPARTMENT OF PLANNING AND ZONING	
<i>Frank A. Lovell</i>	4/15/07
Director - Department of Planning and Zoning	Date
<i>Judy Hamrick</i>	4/15/07
Chief, Planning and Zoning Development	Date
<i>Michael J. ...</i>	4/13/07
Chief, Development Engineering Division	Date

PREPARED FOR  
HOWARD COUNTY PUBLIC SCHOOL SYSTEM  
10910 Maryland Route 108  
Elicott City, Maryland 21042  
Attention: Bruce Gist  
410-313-6805

Address Chart					
Parcel Number	Street Address				
P. 121. 11. 169	14025 BURNT WOODS ROAD GLENELG, MARYLAND 21737				
PROJECT	SECTION/AREA	PARCEL			
GLENELG HIGH SCHOOL	N/A	121. 11. 169			
DEED REF.	BLOCK NO.	ZONE	TAX MAP	ELEC. DIST.	CENSUS TR.
462/750 269/427 1015/484	12	RR-DEO	21	4	6040
WATER CODE	PRIVATE	SEWER CODE	PRIVATE		

DETAIL SHEET		
"REVISED SITE DEVELOPMENT PLAN"		
GLENELG HIGH SCHOOL		
DRAMA SUITE BUILDING ADDITION AND PARKING LOT ADDITION		
TAX MAP No.: 21	GRID No.: 12	PARCEL No.: 121. 11. 169
FOURTH ELECTION DISTRICT	HOWARD COUNTY, MARYLAND	DATE: OCT 23, 2007
SCALE: AS SHOWN		
SHEET 10 OF 11		SDP-00-69

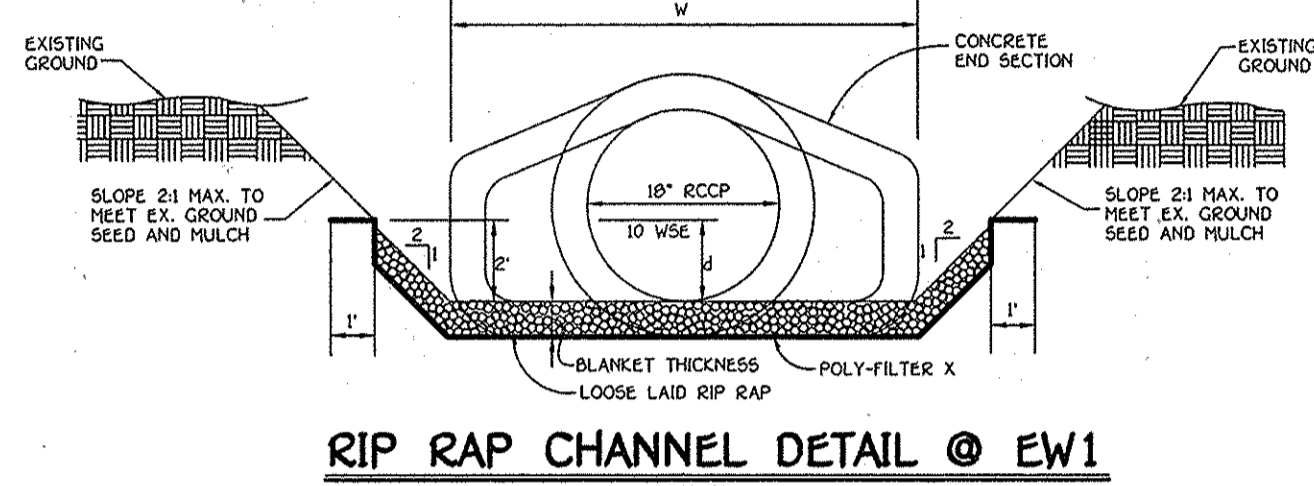


STORM DRAIN STRUCTURE SCHEDULE							
STRUCTURE NO.	TOP ELEVATION	INV. IN	INV. OUT	COORDINATES	TYPE	WIDTH	REMARKS
M-1	569.50	565.12 (15")	565.02 (15")	N 10180.97 E 10154.18	STD. MANHOLE	4.0'	G - 5.12
M-2	570.63	566.41 (15")	566.31 (15")	N 10234.01 E 10142.70	STD. MANHOLE	4.0'	G - 5.12
M-3	552.00	546.47 (15")	546.22 (15")	N 9859.07 E 10392.55	STD. MANHOLE	4.0'	G - 5.12
I-1	550.02	-	547.02 (15")	N 9840.01 E 10500.50	A-5 INLET	2.5'	D - 4.01
EW-1	-	-	546.00 (15")	N 9833.11 E 10357.04	18" END SECTION	-	D - 5.51

PIPE SCHEDULE		
SIZE	CLASS	LENGTH
15"	RCCP, CLASS IV	357 L.F.
18"	RCCP, CLASS IV	44 L.F.
3"	PVC	19 L.F.
4"	PVC	28 L.F.
5"	PVC	28 L.F.

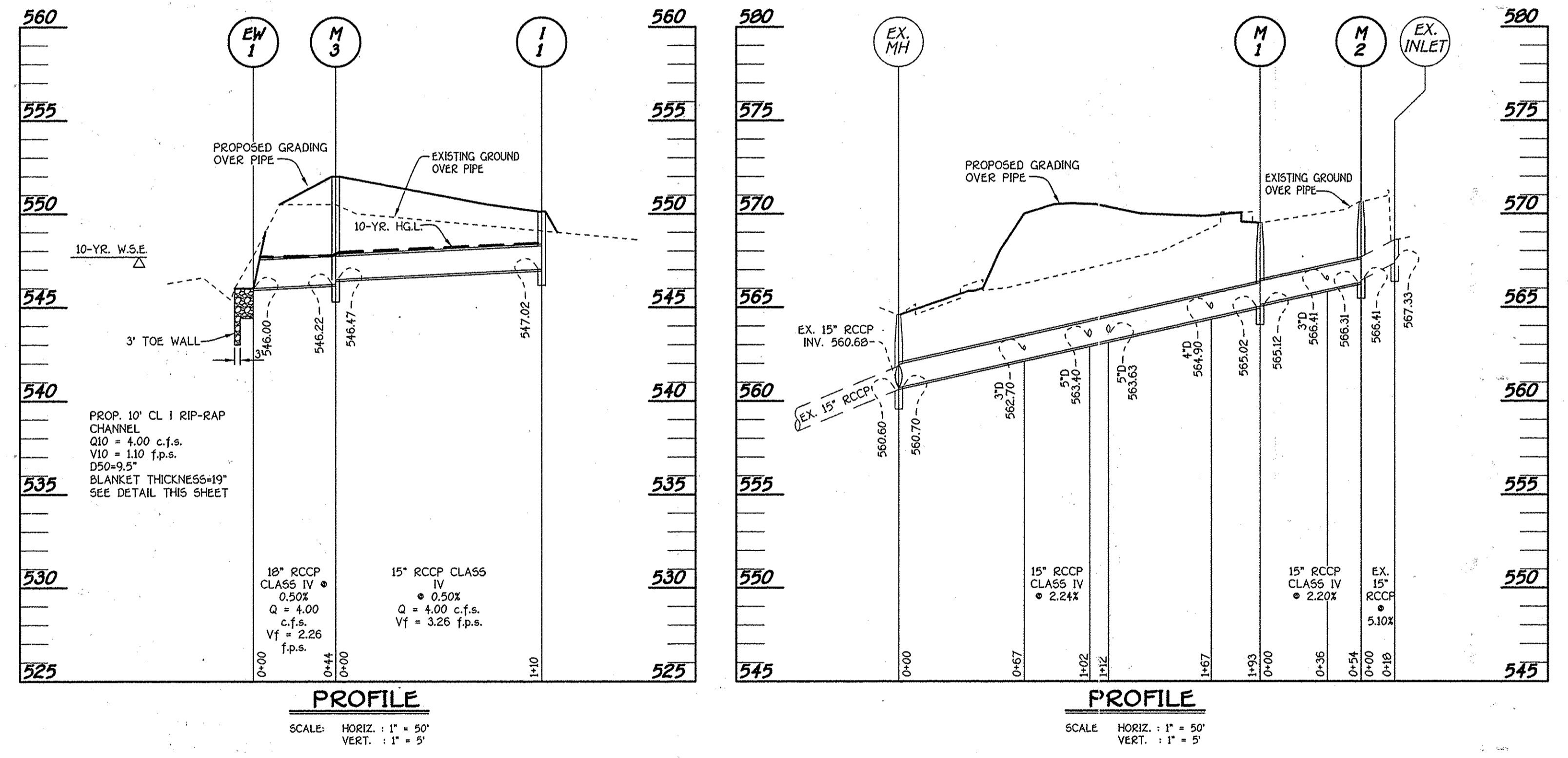
**CONSTRUCTION SPECIFICATIONS FOR RIP-RAP OUTFALLS**

- The subgrade for the filter, riprap 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 riprap or filter.
- Filter cloth shall be protected from punching, cutting or tearing. Any damage other than an occasional hole shall be repaired by placing another piece of cloth over the damaged part or by completely replacing the cloth. All overlaps whether for repairs or for joining two pieces of cloth shall be a minimum of one foot.
- Stone for the riprap or gabion outlets may be placed by equipment. Both shall each 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 riprap or gabion outlets shall be delivered and placed in a manner that will insure that it is reasonably homogeneous with the smaller stones and spalls filling the voids between the larger stones. Riprap shall be placed in a manner to prevent damage to the filter blanket or filter cloth. Hand placement will be required to the extent necessary to prevent damage to the permanent works.

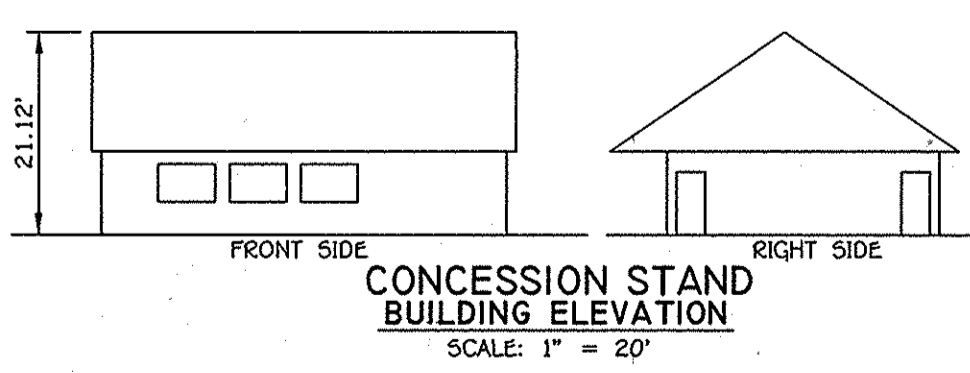


RIP-RAP CHANNEL DESIGN DATA											
STRUCTURE	AREA	WETTED PERIMETER	R	R <sup>2/3</sup>	S	S <sup>1/2</sup>	W	d	N	V (f.p.s.)	Q (c.f.s.)
EW-1	3.62	13.25	0.2725	0.4240	0.005	0.0707	4"	0.83	0.04	1.10	4.00

\* DENOTES WIDTH AT END SECTION



- HEALTH DEPARTMENT NOTES:**
- THE PROPOSED PROPANE GAS LINE SHALL HAVE A 6-INCH MINIMUM CLEARANCE WHERE IT CROSSES THE PROPOSED 6-INCH SEWER LINE.
  - THE EXISTING IRRIGATION WATER LINE SHALL BE SLEEVED 10 FEET AT EACH SIDE OF ITS CROSSING AT THE PROPOSED 6-INCH SEWER LINE.
  - THE WATER USAGE AT THE CONCESSION STAND IS APPROXIMATELY 77 GALLONS PER EACH SCHOOL EVENT.
  - THE HEALTH DEPARTMENT HAS APPROVED A WAIVER ALLOWING A GREASE INTERCEPTOR INSIDE THE KITCHEN IN LIEU OF AN EXTERNAL GREASE INTERCEPTOR TANK WITH THE CONDITION THAT THE INTERCEPTOR WILL BE MAINTAINED BY THE CONTROLLING AUTHORITY, HOWARD COUNTY PUBLIC SCHOOL SYSTEM.



NOTE: THE IMPERVIOUS AREA FOR THE NEW CONCESSION STAND IS 1610 SQ. FT. AND IS EXEMPT FROM STORM WATER MANAGEMENT.

**ENGINEER'S CERTIFICATE**  
 I certify that this plan for sediment and erosion control represents a practical and workable plan based on my personal knowledge of the site conditions and that it was prepared in accordance with the requirements of the Howard Soil Conservation District.  
 Signature of Engineer: [Signature] Date: 7/11/14

**DEVELOPER'S CERTIFICATE**  
 I certify that all development and construction will be done according to this plan for sediment and erosion control, and that all 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; also authorize periodic on-site inspection by the Howard Soil Conservation District.  
 Signature of Developer: [Signature] Date: 7/11/14

APPROVED: FOR PRIVATE WATER & SEWERAGE SYSTEMS  
 HOWARD COUNTY HEALTH DEPARTMENT  
 Signature: [Signature] Date: 7/15/14

APPROVED: DEPARTMENT OF PLANNING AND ZONING  
 Signature: [Signature] Date: 7/15/14

7/13/15 Added Relocated Score Board  
 6/12/14 Added NEW CONCESSION STAND & FENCE DETAIL  
 5/11/07 Added THIS SHEET FOR STORM DRAIN PROFILES (Drama Suite)

PREPARED FOR  
 HOWARD COUNTY PUBLIC SCHOOL SYSTEM  
 10910 Maryland Route 108  
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DEED REF.	BLOCK NO.	ZONE	TAX MAP	ELEC. DIST.	CENSUS TR.
462/750 289/427 1015/484	12	RR-DEO	21	4	6040

WATER CODE: PRIVATE  
 SEWER CODE: PRIVATE

**SEDIMENT CONTROL PLAN, STORM DRAIN PROFILES & STRUCTURE SCHEDULE**  
 "REVISED SITE DEVELOPMENT PLAN"  
**GLENELG HIGH SCHOOL**  
 DRAMA SUITE BUILDING ADDITION AND PARKING LOT ADDITION

TAX MAP No: 21 GRID No: 12 PARCEL No: 121, 11, 169  
 FOURTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND  
 SCALE: AS SHOWN DATE: OCT 23, 2007

SHEET 11 OF 11 50P-00-69

