GENERAL NOTES:

I. RIGHT-OF-WAY LINES SHOWN ON THESE PLANS DO NOT INCLUDE EASEMENTS, THEY ARE FOR ASSISTANCE IN INTERPRETING THE PLANS. THEY ARE NOT FOR OFFICIAL FEE RIGHT-OF-WAY AND EASEMENT INFORMATION, SEE APPROPRIATE RIGHT-OF-WAY PLAT OR PLATS.

2. THE LOCATIONS OF EXISTING UTILITIES SHOWN ON THE PLANS ARE FOR INFORMATION AND GUIDANCE ONLY. NO GUARANTEE IS MADE AS TO THE ACCURACY OF SAID LOCATIONS. CALL "MISS UTILITY", 1-800-257-7777 FOR UTILITY LOCATIONS AT LEAST 48 HOURS BEFORE BEGINNING CONSTRUCTION.

3. THIS TRAIL SHALL BE CONSTRUCTED TO THE AMERICAN DISABILITIES ACT (ADA) COMPATIBLE GRADES; GENERAL MAXIMUM GRADE IS 5%, FOR RAMPS THE MAXIMUM SHALL BE 1:12, WITH 8 FT. LANDINGS FOR EVERY 2.5 FT. OF VERTICAL CHANGE IN GRADE. CONTRACTOR SHALL BE RESPONSIBLE FOR INSURING THAT THE TRAIL MEETS REQUIRED GRADES.

CONSTRUCTION NOTES

I. CONTRACTOR SHALL LOCATE EXISTING UTILITIES A MINIMUM OF TWO (2) WEEKS IN ADVANCE OF CONSTRUCTION OPERATIONS IN THE VICINITY OF PROPOSED UTILITIES AT NO COST TO THE COUNTY, THEN, IF DIRECTED BY THE ENGINEER, TEST PITS SHALL BE DUG AT UTILITY CROSSINGS TO DETERMINE EXISTING HORIZONTAL AND VERTICAL ALIGNMENT OF UTILITIES.

2. CONTRACTOR SHALL NOTIFY THE FOLLOWING UTILITIES OR AGENCIES AT LEAST FIVE (5) WORKING DAYS BEFORE STARTING WORK SHOWN ON THESE PLANS:

MISS UTILITY 1-800-257-7777 CONSTRUCTION INSPECTION DIVISION, HOWARD COUNTY (410) 313-1880 STATE HIGHWAY ADMINISTRATION (410) 531-5533 BALTIMORE GAS & ELECTRIC COMPANY - UNDERGROUND ELECTRIC DISTRIBUTION CUSTOMER SERVICE (410) 685-0123 ENGINEERING DAMAGE CONTROL (410) 234-5621 VERIZON 410-224-9285

AMERICAN TELEPHONE & TELEGRAPH CABLE LOCATION DIVISION (410) 393-3553 COLONIAL PIPELINE COMPANY (410) 781-4641 BUREAU OF UTILITIES, HOWARD COUNTY (410) 313-4900

3. AVOID DAMAGE TO TREES ON THE PATHWAY TO MAXIMUM EXTENT. OTHER TREES WITHIN LIMITS OF CONSTRUCTION SHALL NOT BE DESTROYED WITHOUT APPROVAL OF THE ENGINEER. TREES GREATER THAN 12" DBH WITHIN OF LOD SHALL BE PROTECTED USING TREE PROTECTIVE

4. CONTRACTOR SHALL REMOVE TREES, STUMPS, AND ROOT ALONG LINE OF EXCAVATION AS DIRECTED BY THE ENGINEER. THIS ITEM SHALL BE CONDUCTED IN ACCORDANCE WITH SECTION IOI OF THE SHA STANDARD SPECIFICATIONS. CARE SHALL BE TAKEN TO AVOID DISTURBANCE OF EXISTING TREES TO REMAIN

5. PLACE REGULATION AND WARNING SIGNS AS REQUIRED TO COMPLY WITH MARYLAND STATE HIGHWAY ADMINISTRATION MANUAL OF TRAFFIC CONTROL FOR HIGHWAY CONSTRUCTION AND MAINTENANCE OPERATIONS. ALL STREET AND REGULATORY SIGNS SHALL BE IN PLACE PRIOR TO ANY ASPHALT PAVING. NO TRAFFIC STUDY IS REQUIRED.

6. ALL GRADING SHALL BE LIMITED TO THE L.O.D. SHOWN INCLUDING SIDE SLOPES AND STABILIZATION ONLY. FOLLOWING INITIAL SOIL DISTURBANCE OR REDISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED AS FOLLOWS:

A. SEVEN (7) CALENDAR DAYS FOR THE SURFACE OF ALL PERIMETER CONTROLS, DIKES, SWALES, DITCHES, PERIMETER SLOPES AND ALL SLOPES GREATER THAN THREE HORIZONTAL TO ONE VERTICAL (3:1): AND,

B. FOURTEEN (14) CALENDAR DAYS FOR ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE.

7. FOR DETAILS NOT SHOWN ON THESE DRAWINGS AND FOR MATERIALS AND CONSTRUCTION METHODS, THE CONTRACTOR SHALL ABIDE BY THE MARYLAND STATE HIGHWAY ADMINISTRATION'S "BOOK OF STANDARDS FOR HIGHWAY AND INCIDENTAL STRUCTURES", "STANDARD SPECIFICATIONS FOR CONSTRUCTION AND MATERIALS" AND THE SPECIAL PROVISIONS. IN THE EVENT OF ANY DISCREPANCY BETWEEN THESE SOURCES, THE SPECIAL PROVISIONS SHALL

8. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST STANDARDS AND SPECIFICATIONS.

9. UNLESS INDICATED OTHERWISE, NEW PATHWAY SHALL NOT EXCEED 5% SLOPE.

IO. THE EXISTING TOPOGRAPHY IS TAKEN FROM FIELD RUN SURVEY WITH ONE FOOT CONTOUR INTERVALS PREPARED BY THE HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS, DATED JUNE

II. TRAFFIC CONTROL DEVICES, MARKINGS AND SIGNINGS SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE "MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES" (MUTCD). ALL STREET AND REGULATORY SIGNS SHALL BE PLACED PRIOR TO PLACEMENT OF ANY ASPHALT.

12. GPI ATTAINED AN APPROVED HEC-2 MODEL OF THE LITTLE PATUXENT RIVER FROM THE HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS. THIS MODEL WAS UPDATED ACCORDING TO THE PROPOSED WORK ON THIS SITE.

13. WETLANDS DELINEATED BY: GREENMAN-PEDERSEN, INC., 10620 GUILFORD RD., JESSUP, MARYLAND, 20794. (301) 470-2772, (410) 880-3055.

14. NO TRAFFIC STUDY IS REQUIRED FOR THIS PROJECT.

15. STORMWATER MANAGEMENT QUANTITY CONTROL IS MET BY PROVIDING CONVEYANCE OF CONCENTRATED FLOW UNDERNEATH THE PATHWAY VIA (I) 13"X17" CMPA, (2) 20"X28" CMPA'S, AND (I) 13"X17" CMPA AT STATIONS 10+30, 14+40, AND 19+20 RESPECTIVELY. THE CHANNEL PROTECTION VOLUME IS NOT REQUIRED BECAUSE THE SITE'S ONE-YEAR POST DEVELOPMENT PEAK DISCHARGE IS LESS THAN 2 CFS. WATER QUALITY IS MET BY RECEIVING THE SHEET FLOW TO BUFFER CREDIT

16. HOWARD COUNTY DEPARTMENT OF RECREATION AND PARKS IS RESPONSIBLE FOR DISPOSITION OF TRASH UPON ACCEPTANCE OF THIS PROJECT FOR MAINTENANCE, NO DUMPSTER IS REQUIRED.

17. COORDINATES SHOWN HEREON ARE BASED ON HOWARD COUNTY GEODECTIC SYSTEM POINT 30BA 30DI HORIZONTAL NAD 83 DATUM.

18. APPROXIMATE LOCATION OF EXISTING WATER AND SEWER MAINS ARE SHOWN, THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT EXISTING MAINS AND SERVICES, AND MAINTAIN UNINTERRUPTED SUPPLY. ANY DAMAGE INCURRED SHALL BE REPAIRED IMMEDIATELY TO THE SATISFACTION OF THE ENGINEER AT THE CONTRACTOR'S EXPENSE.

19. PLACE REGULATION "MEN WORKING" AND WARNING SIGNS AS REQUIRED TO COMPLY WITH MARYLAND STATE HIGHWAY ADMINISTRATION MANUAL OF TRAFFIC CONTROL FOR HIGHWAY CONSTRUCTION AND MAINTENANCE OPERATIONS ALONG OLD ANNAPOLIS ROAD.

20. CONTRACTOR SHALL EXERCISE CAUTION WHILE WORKING WITHIN CLOSE PROXIMITY TO OVERHEAD POWER LINES. FOLLOW ALL O.S.H.A. AND "MARYLAND HIGH VOLTAGE ACT" REGULATIONS.

21. THIS PLAN SHALL BE SUBJECT TO THE LATEST EDITION OF THE HOWARD COUNTY SUBDIVISION AND LAND DEVELOPMENT REGULATIONS AND THE AMENDED ZONING REGULATIONS - COUNCIL BILL

22. THERE ARE WETLANDS LOCATED ON THE SITE. IT IS THE CONTRACTORS RESPONSIBILITY TO LIMIT WETLAND IMPACTS AS MUCH AS PRACTICAL DURING CONSTRUCTION.

23. STEEP SLOPES 25% AND GREATER EXIST ON THIS SITE.

24. NO CLEARING, GRADING OR CONSTRUCTION IS PERMITTED WITHIN THE REQUIRED WETLANDS, STREAMS OR THEIR BUFFERS AND 100-YEAR FLOODPLAIN AREA, EXCEPT AS APPROVED BY

25. THIS PROJECT IS EXEMPT FROM THE FOREST CONSERVATION REQUIREMENTS IN ACCORDANCE WITH CHAPTER 2, PAGE 4 OF THE HOWARD COUNTY FOREST CONSERVATION MANUAL BECAUSE ALL CALCULATIONS AND RETENTION PRIORITIES ONLY APPLY TO THE NET TRACT AREA (I.E. THE PORTION OF A SITE NOT IN THE FLOOD PLAIN) SINCE FLOOD PLAINS ARE EXEMPTED FROM STATE ACT. SINCE THE PROPOSED PATHWAY PROJECT IS LOCATED ENTIRELY WITHIN THE LIMITS OF 100 YEAR FLOOD PLAIN AND THE NET TRACT AREA IS ZERO, THERE IS NO AFFORESTATION OR REFORESTATION OBLIGATION CREATED FOR THE PROPOSED DEVELOPMENT. EXEMPT PER SECTION 16.1302(6)(1)

HOWARD COUNTY, MARYLAND COUNCIL RESOLUTION NO.146-2002, THE COUNTY COUNCIL APPROVED THE CONDEMNATION PROCEEDINGS IN THE CIRCUIT COURT OF HOWARD COUNTY FOR THE 40 FT.

CENTENNIAL ACCESS PATHWAY

DEPARTMENT OF PUBLIC WORKS CAPITAL PROJECT NO. N-3919

SHA CONTRACT NO.: HO6715125

THE APPROVAL OF WAIVER PETITION WP-03-008 DATED OCTOBER 8, 2002 FOR THE CENTENNIAL ACCESS PATHWAY TO WAIVE SECTION 16.116 (a) (1) AND SECTION 16.115 (c) (2) IS SUBJECT TO THE FOLLOWING CONDITIONS:

I. THE APPLICANT MUST PROVIDE DOCUMENTATION FROM THE STATE HIGHWAY ADMINISTRATION, DEPARTMENT OF TRANSPORTATION APPROVING THE PROPOSED PATHWAY ALIGNMENT PRIOR TO DPZ'S ISSUANCE OF SIGNATURE APPROVAL FOR SDP-02-104. THIS IS REQUIRED BECAUSE A PORTION OF THE PATHWAY WILL LIE WITHIN THE RIGHT-OF-WAY FOR

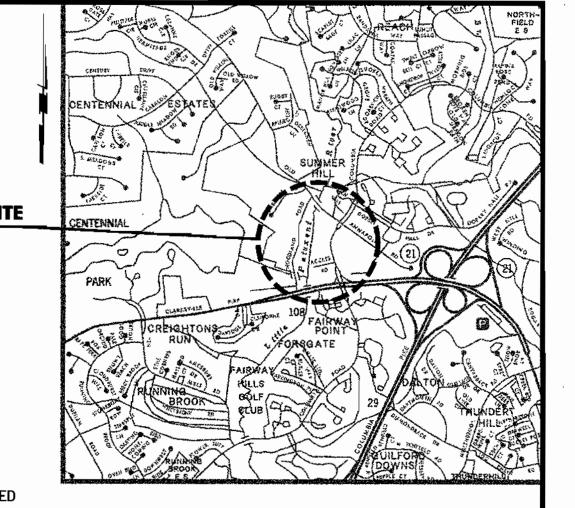
2. THE APPLICANT MUST PROVIDE A COPY OF THE MDE APPROVAL LETTER REGARDING THE SELECTED ALIGNMENT FOR THE PATHWAY PRIOR TO DPZ'S ISSUANCE OF SIGNATURE APPROVAL FOR SDP-02-104.

3. DUE TO SETBACK REQUIREMENTS FOR THE R-20 ZONING DISTRICT, WHICH IMPOSES A 20 FT. USE SETBACK FROM ANY PUBLIC ROAD RIGHT-OF-WAY AND A 20 FT. USE SETBACK FROM ANY PUBLIC ROAD RIGHT-OF-WAY AND A 20 FT. USE SETBACK FROM PROPERTY LINES, A VARIANCE MUST BE GRANTED BY THE COUNTY COUNCIL IN ORDER TO TO PERMIT THE PROPOSED ALIGNMENT. THE APPLICANT IS ADVISED THAT EVIDENCE OF COUNCIL APPROVAL MUST BE SUBMITTED TO DPZ PRIOR TO THIS DEPARTMENTS' ISSUANCE OF SIGNATURE APPROVAL FOR SDP-02-104. IN ADDITION, THE COUNCIL RESOLUTION NUMBER SHOULD BE REFERENCED ON THE SDP.

LIMIT OF WORK

CONSTRUCTION

ENTRANCE



VICINITY MAP SCALE: 1" = 2000'

PROPOSED

LEGEND

EXISTING

	TENNIAL REPORT OF STATES OF STAT
SITE	TEAINIAI
STABILIZED CONSTRUCTION ENTRANCE	PARK 30DI 30BA 30BA
	CLORISONE CREHGHTONS DAVIOGE OR POINT POINT PORS GATE CLORISONE TOWN OF THE POINT PORS GATE CLORISON OF THE POINT PORS GATE CLORISON OF THE POINT PORS GATE CLORISON OF THE POINT POINT PORS GATE CLORISON OF THE POINT P

LUCATION MAP SCALE: I" = 1000'

LIMIT OF WORK STABILIZED CONSTRUCTION ENTRANCE	TENNIAL DESCRIPTION SOUTH FAIRWA POINT PO
SITE	

HOWARD COUNTY FIELD BOOK SURVEY REFERENCES DATE SURVEYED

SITE ANALYSIS

1.33 AC. TOTAL PROJECT AREA 1.33 AC. TOTAL AREA DISTURBED PRESENT ZONING R-20
PROPOSED USE: PEDESTRIAN PATHWAY 0.95 AC. AREA OF VEGETATIVE STABILIZATION 0.38 AC. AREA OF IMPERVIOUS SURFACE 2090 LINEAR FEET OF 8 FT. BITUMINOUS PATHWAY 70 LINEAR FEET OF BRIDGE
205 LINEAR FEET OF BOARDWALK
1,275 S.F. AREA OF TEMPORARY WETLAND DISTURBANCE
0 S.F. AREA OF PERMANENT WETLAND DISTURBANCE ,424 S.F. AREA OF 25 FT. WETLAND BUFFER DISTURBANCE -M.D.E. AUTHORIZATION NO.: 01-NT-0543/200261144 -DEPARTMENT OF PLANNING AND ZONING WAIVER NO.: WP-03-08

SPOT ELEVATION
EDGE OF ROA
CURB AND GUTTE
BUILDIN
BITUMINOUS PATHWA
STORM DRAIN PIP
STORM DRAIN INLE
STORM DRAIN MANHOL
WATER VALV
REDUCE
FENC
TREELIN
WETLAND LIMI
25' WETLAND BUFFE
LIMIT OF DISTURBANC
PROPERTY/R-O-W LIN

STABILIZED CONSTRUCTION ENTRANCE TEMPORARY STONE OUTLET STRUCTURE CHECK DAM SILT FENCE SUPER SILT FENCE EARTH DIKE INLET PROTECTION SOIL STABILIZATION MATTING TREE PROTECTIVE FENCE STORM DRAIN EASEMENT

CONCRETE SIDEWALK

×30.05	× 30.05
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THE BOTTOM STEEMS BOTTOM BOTTO	
	TSOS (SEE)
	SF
	AGIP CIP

LOT/PARCEL #

ADDRESS CHART STREET ADDRESS 4795 WOODLAND ROAD PERMIT INFORMATION CHART Subdivision Name N/A Centennial Access Pathway 187, 417, 419 6023.01 2609/670

THE PATHWAY PROPERTY IS OWNED BY HOWARD COUNTY, DPW 9250 BENDIX ROAD COLUMBIA, MD 21045

BENCH MARK INFORMATION

HOWARD COUNTY CONTROL, STA. 30BA, N 573149.04, E 1357083.22 ELEV. 397.91, STAMPED CONCRETE MONUMENT HOWARD COUNTY CONTROL, STA. 30DI, N 572311.62, E 1355139.10, ELEV. 409.967 STAMPED CONCRETE MONUMENT, 0.3' ABOVE SURFACE. 6' NORTH OF FENCE LINE

SDP SHEET I OF 9

SITE DEVELOPMENT PLANS DEPARTMENT OF PLANNING

DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY. MARYLAND

DIRECTOR OF PUBLIC WORKS

DEPARTMENT OF RECREATION & PARKS HOWARD COUNTY, MARYLAND euly 9-17-03

DIRECTOR, DEPARTMENT OF

RECREATION AND PARKS

FAX: (301) 490-2649 www.gpinet.com

DATE

Greenman-Pedersen,Inc

FOR HOWARD COUNTY.

NGINEERS, ARCHITECTS, PLANNERS, CONSTRUCTION ENGINEERS & INSPECTOR 10620 GUILFORD ROAD, JESSUP, MARYLAND, 20794 WASH. (301) 470-2772 BALT. (410) 880-3055

WIDE RIGHT-OF-WAY NEAR OLD ANNAPOLIS ROAD ON

THE 0.0193 ACRES OF FEE SIMPLE, 0.0078 ACRES OF TEMPORARY GRADING EASEMENT AND 0.0096 ACRES OF TEMPORARY CONSTRUCTION EASEMENT LOCATED ON

A 40 FT. RIGHT-OF-WAY OF UNKNOWN OWNERSHIP IS THE SUBJECT OF CONDEMNATION RESOLUTION NO. 146-2002 AND CONDEMNATION CASE NO. 13-C-03-54668

COUNCIL RESOLUTION NO. 117-2003, THE COUNTY COUNCIL APPROVED THE VARIANCE OF THE 20 FT. USE SETBACK FROM ALL PUBLIC ROAD RIGHTS-OF-WAY LINES AND

PPROJECT PROPERTY LINES AS SPECIFIED IN THE "R-20"

SHEET NO. SDP NO.

FILED IN THE CIRCUIT COURT FOR HOWARD COUNTY.

ZONING DISTRIC REGULATIONS ON JULY 30, 2003.

OCTOBER 7, 2002.



THE 0.0193 ACRES OF FEE SIMPLE, 0.0078 ACRES OF TEMPORARY GRADING EASEMENT AND 0.0096 ACRES OF TEMPORARY CONSTRUCTION EASEMENT LOCATED ON A 40 FT.

RIGHT-OF-WAY OF UNKNOWN OWNERSHIP IS THE SUBJECT OF CONDEMNATION RESOLUTION

NO. 146-2002 AND CONDEMNATION CASE NO. 13-C-03-54668 FILED IN THE CIRCUIT COURT

DESCRIPTION

TITLE SHEET

SITE PLAN 1

SITE PLAN 2

DRAINAGE PROFILES

CONSTRUCTION DETAILS

DRAINAGE AREA MAP

GENERAL NOTES & BRIDGE DETAILS

GENERAL PLAN & ELEVATION

PLAN & ELEVATION-ABUTMENT A

PLAN & ELEVATION-ABUTMENT B

SECTIONS AND DETAILS-ABUMENTS A & B

BOARDWALK AND CONSTRUCTION NOTES AND DETAILS

GRADING, SEDIMENT AND EROSION CONTROL NOTES

GRADING, SEDIMENT AND EROSION CONTROL DETAILS

					n/a		n/a
À	DES: W.R.F.	BY	NO	REVISIO	N	DATE	
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Sales	CHK: K.P.	•					
7	DATE: SEPT., 2003			<u> </u>			'SCALE MAP NO.

TITLE SHEET

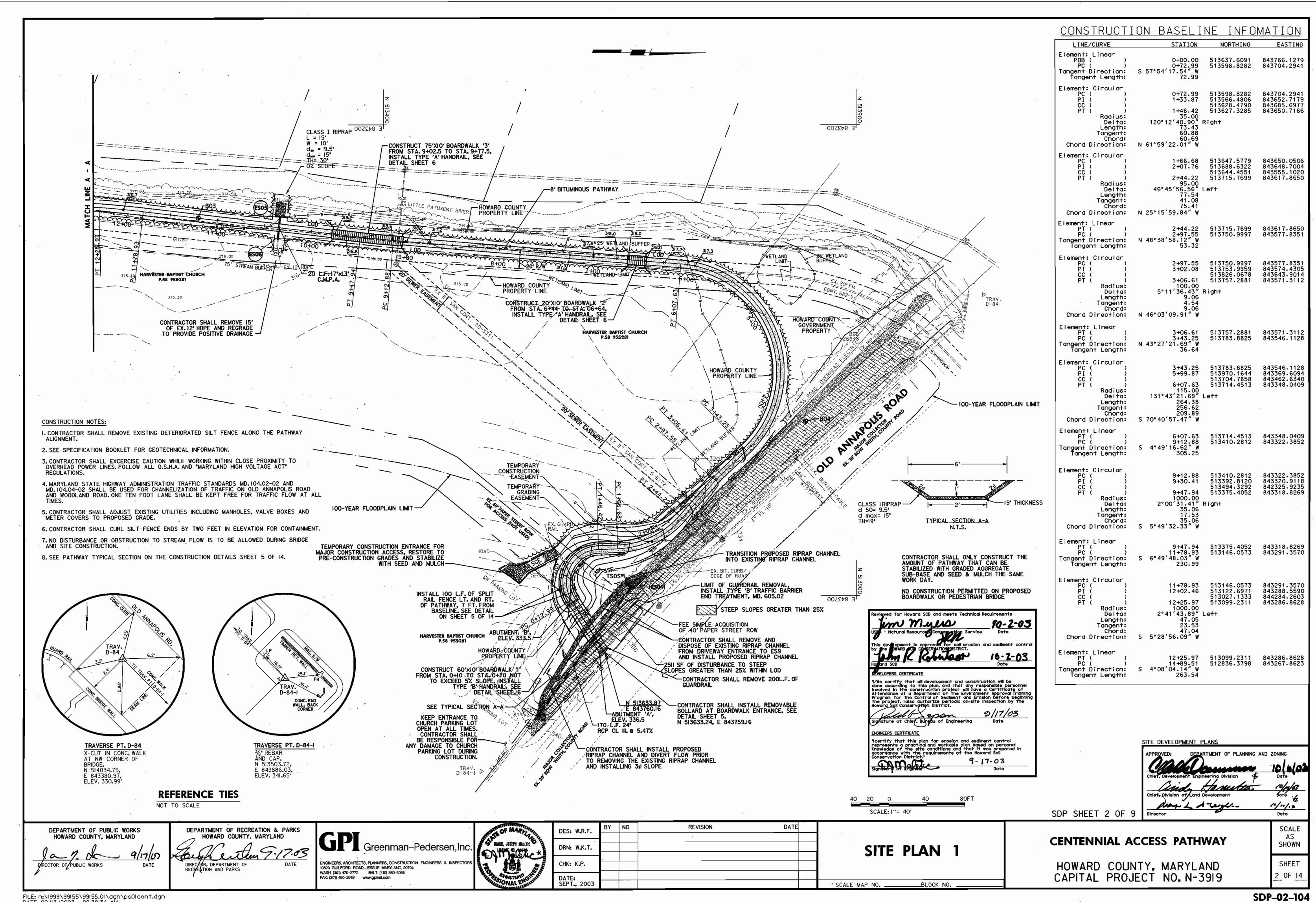
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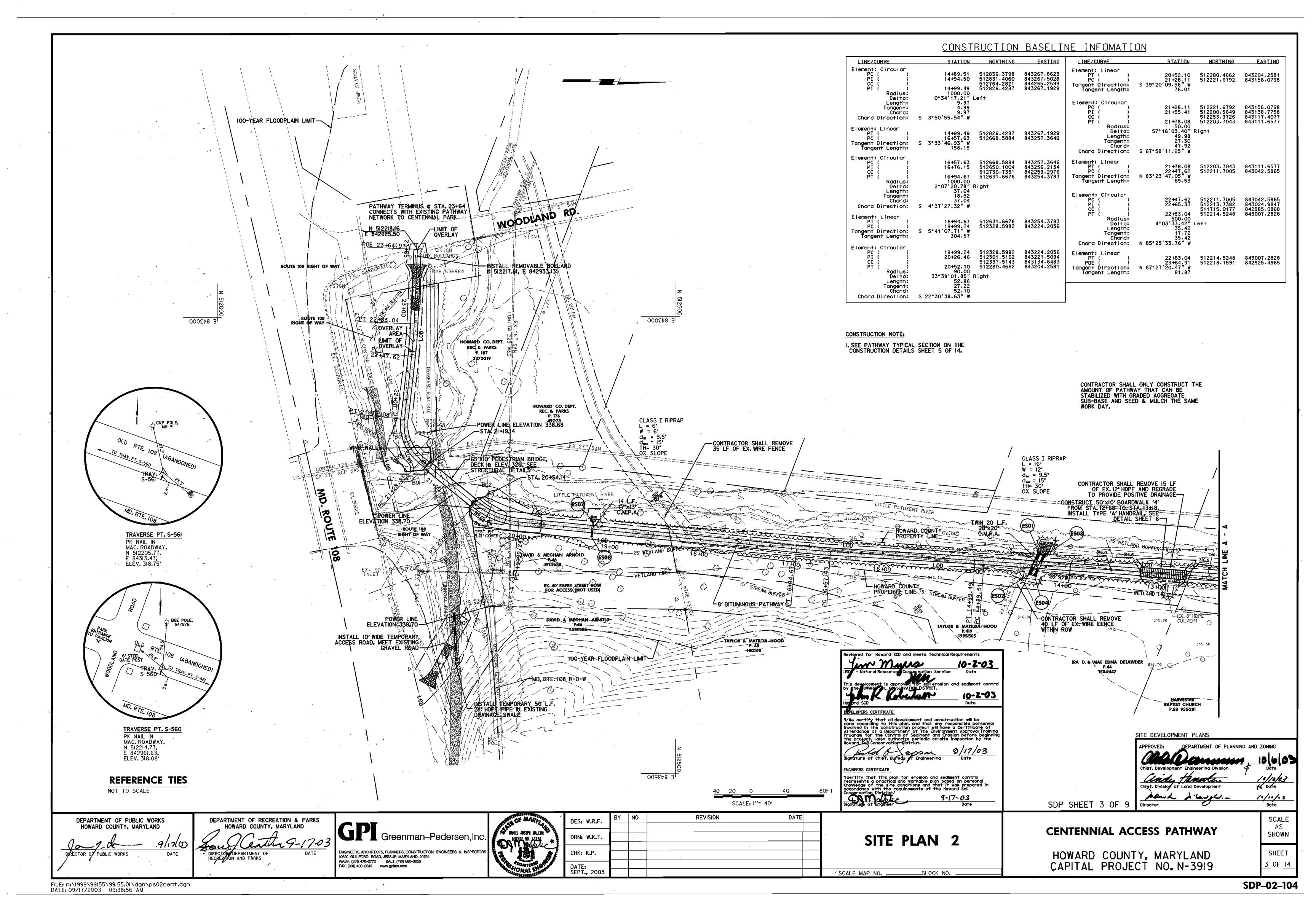
CENTENNIAL ACCESS PATHWAY

HOWARD COUNTY, MARYLAND CAPITAL PROJECT NO. N-3919

SCALE SHOWN SHEET

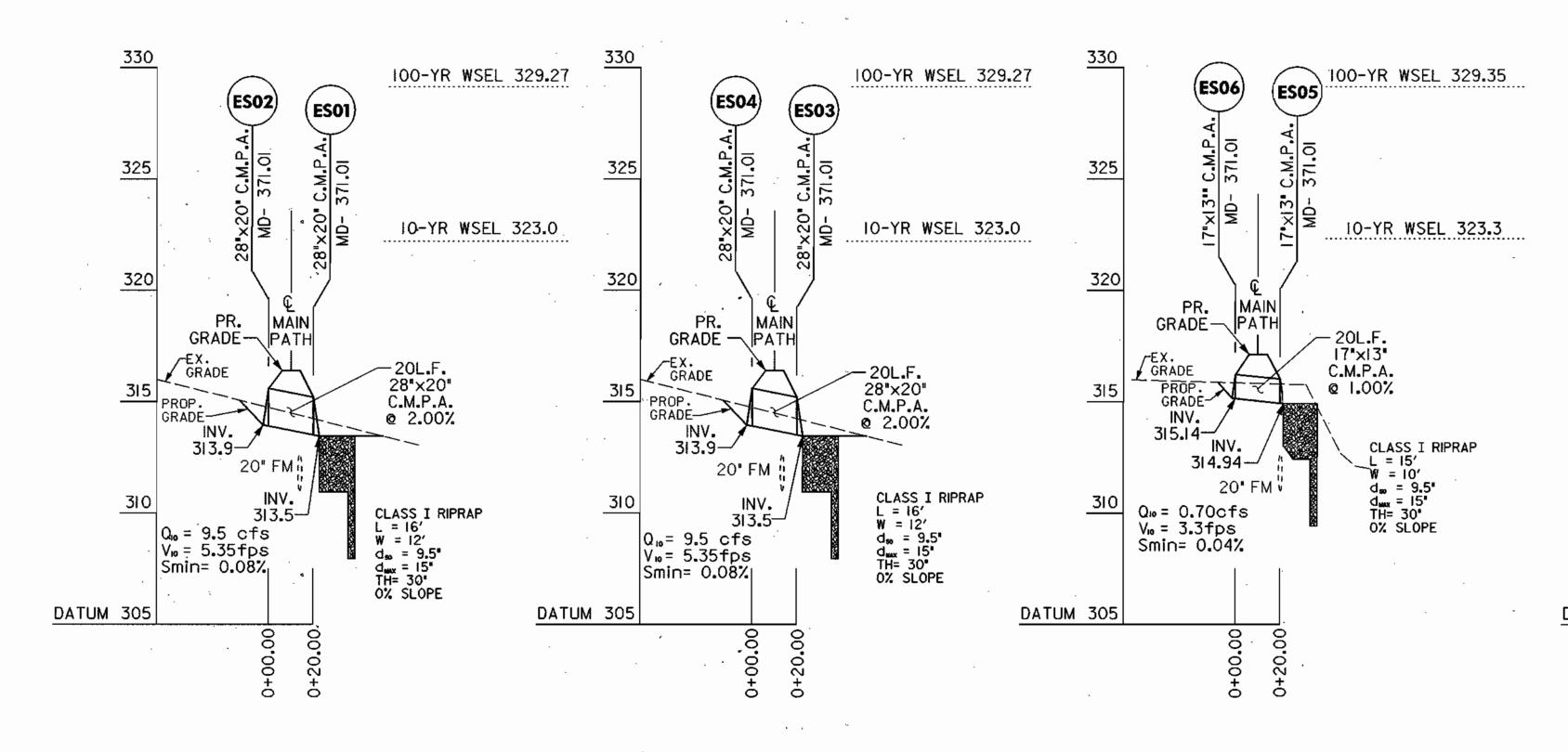
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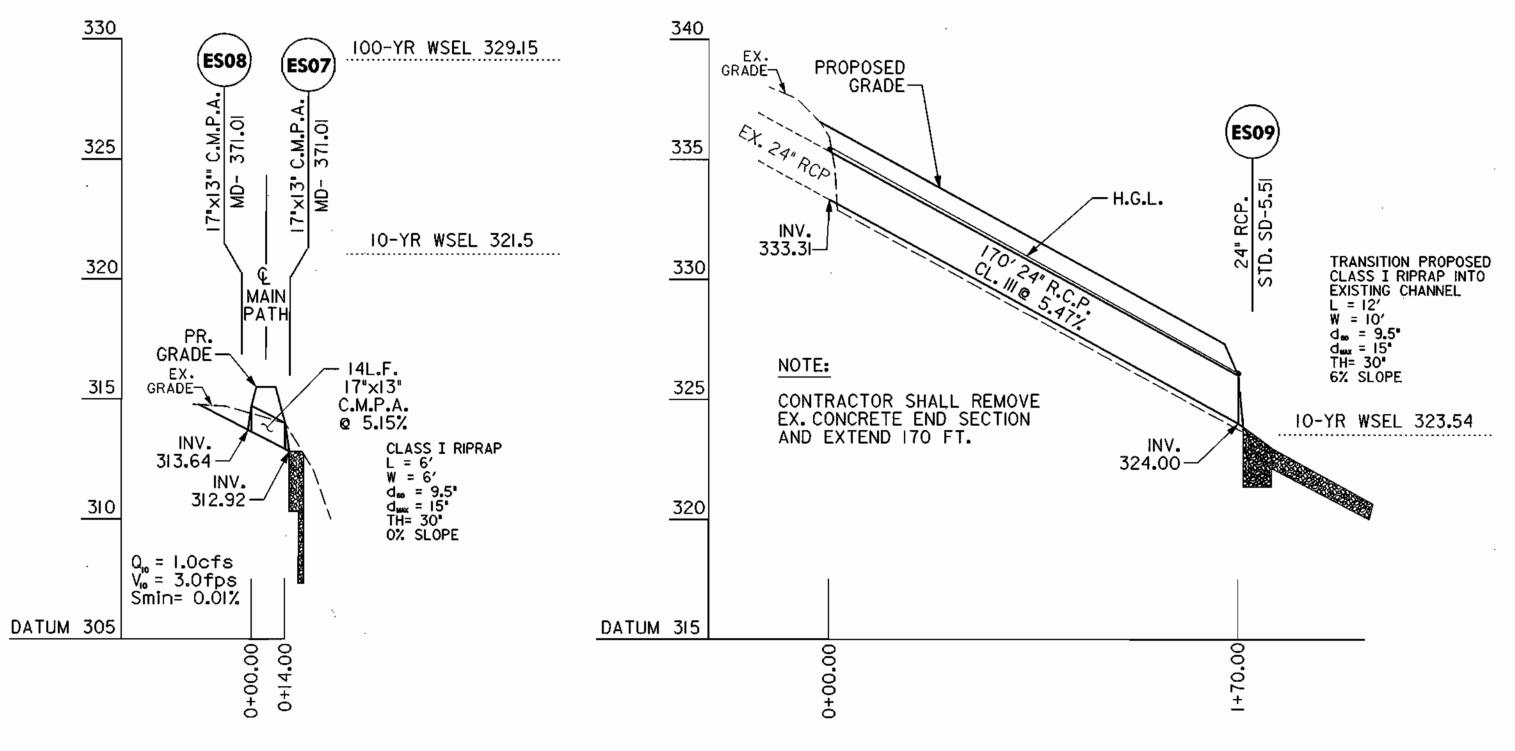


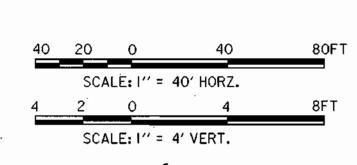


	STRUCTURE SCHEDULE				
NO.	STANDARD	TYPE	LOCATION		
ES01	MD- 371.01	28"×20" END-SECTION	N 512896.40 E 843260.58		
ES02	MD-371.01	28"×20" END-SECTION	N 512887.20 E 843281.29		
ES03	MD-371.01	28"×20" END-SECTION	N 512901.42 E 843262.81		
ES04	MD-371.01	28"×20" END-SECTION	N 512892.22 E 843283.52		
ES05	MD-371.01	17"×13" END-SECTION	N 513290.63 E 843297.80		
ES06	MD-371.01	17"×13" END-SECTION	N 513288.54 E 843319.29		
ES07	MD-371.01	17"x13". END-SECTION	N 512409.81 E 843224.65		
ES08	MD-371.01	17"×13" END-SECTION	N 512408.30 E 843240.17		
ES09	SD-5.5I	24° CONC END-SECTION			

PIPE SCHEDULE							
FROM	то ՝	TYPE	LENGTH				
ES01	- ES02	28"X20" C.M.P.A.	20L.F.				
ES03	ES04	28"X20" C.M.P.A.	20L.F.				
ES05	ES06	17"XI3" C.M.P.A.	20L.F.				
ES07	ES08	17"X13" C.M.P.A.	14L.F.				
EX. PIPE	ES09	24" R.C.P.	170L.F.				







DEPARTMENT OF RECREATION & PARKS
HOWARD COUNTY, MARYLAND

ENGINEERS, ARCHITECTS, PLANNERS, CONSTRUCTION ENGINEERS & INSPECTOR: 10620 GUILFORD ROAD, JESSUP, MARYLAND, 20794
WASH. (301) 470-2772 BALT. (410) 880-3055
FAX: (301) 490-2649 www.gpinet.com



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	DATE: SEPT., 2003			·	

DRAINAGE PROFILES

_BLOCK NO.

'SCALE MAP NO.

CENTENNIAL ACCESS PATHWAY

SDP SHEET 4 OF 9

HOWARD COUNTY, MARYLAND CAPITAL PROJECT NO. N-3919

SCALE AS SHOWN SHEET 4_0F_14_

/0/10/13 Date

10-2-03

10-2-03 Date

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

9-17-03

Signature of Engineer Date

DEPARTMENT OF PLANNING AND ZONING

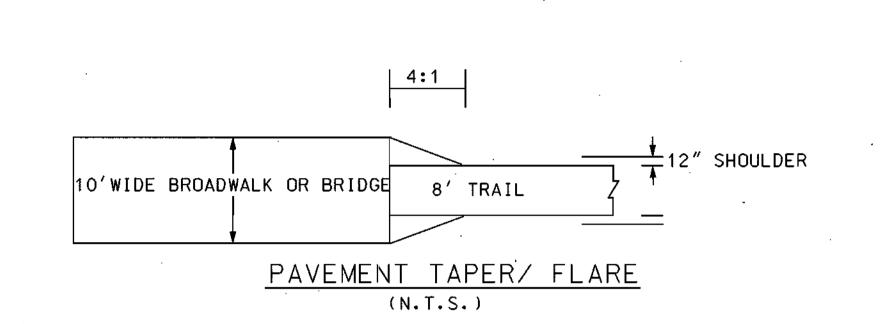
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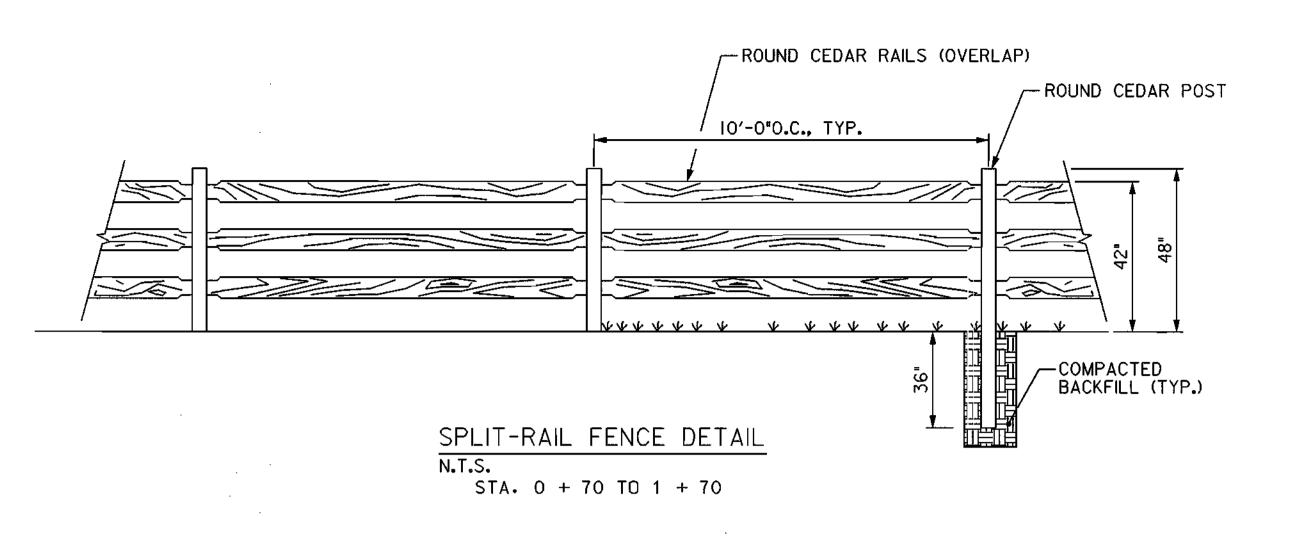
DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND

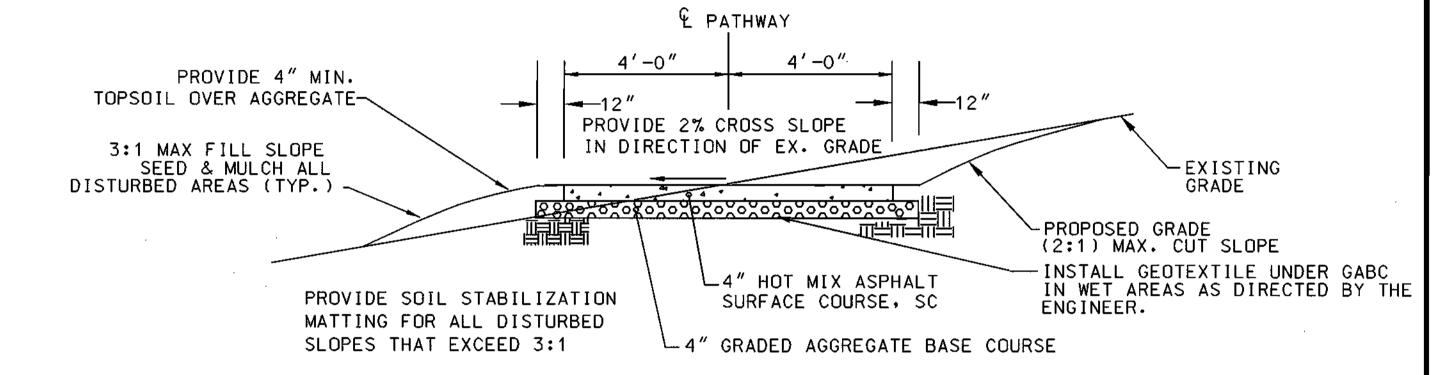
DIRECTOR DEPARTMENT OF

RECREATION AND PARKS

SDP-02-104

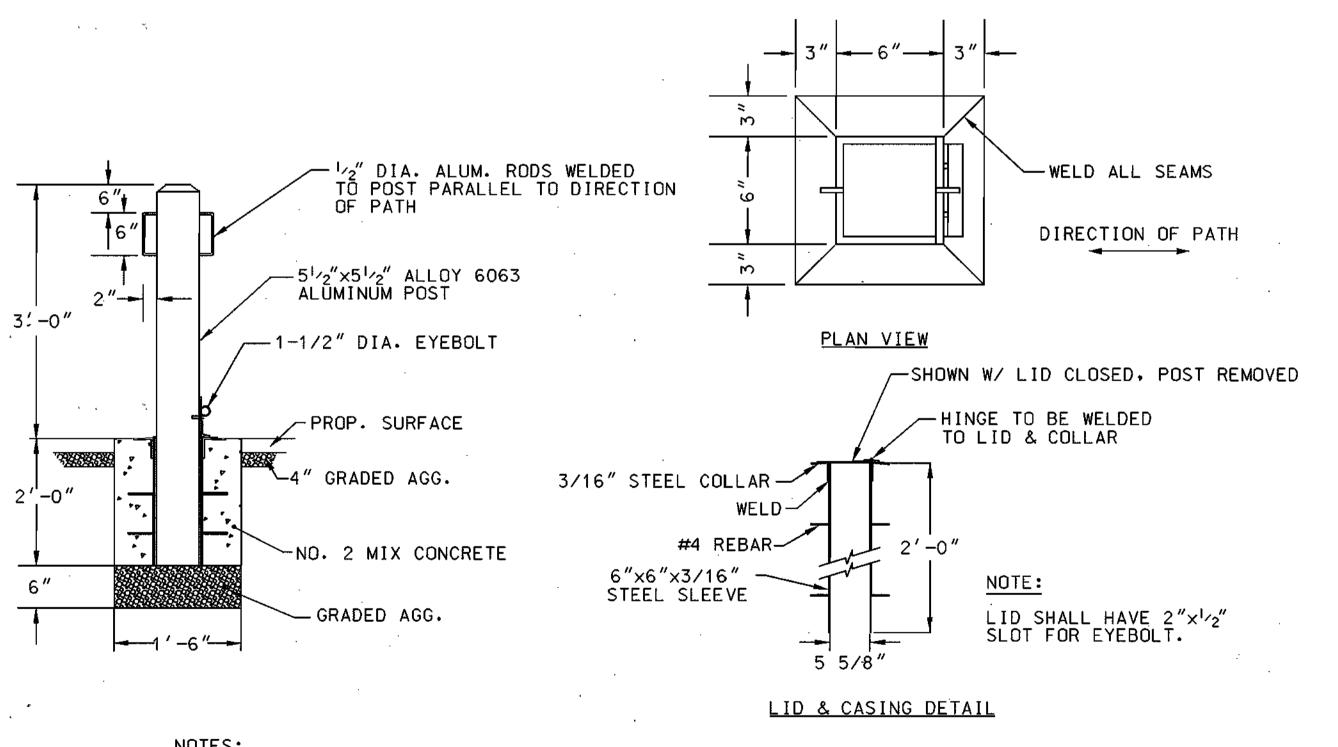






TYPICAL PAVED SECTION

(N.T.S.)



1.) PAINT ALL EXPOSED SURFACES WITH 2 COATS ALKYD INDUSTRIAL ENAMEL. COLORS TO BE APPROVED BY ENGINEER.

> BOLLARD DETAIL NOT TO SCALE

DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND

ANY CONSTRUCTION.

TEMPORARILY IMPACTED AREAS.

SPECIES.

MANAGEMENT PRACTICES FOR WORKING IN NON-TIDAL WETLANDS

I. NO EXCESS FILL, CONSTRUCTION MATERIAL, OR DEBRIS ARE TO BE STOCKPILED OR STORED IN THE WETLAND OR BUFFER.

3. DO NOT USE THE EXCAVATED MATERIAL AS BACKFILL IF IT

2. PLACE MATERIALS IN A LOCATION AND MANNER WHICH DOES NOT ADVERSELY IMPACT SURFACE OR SUBSURFACE WATER FLOW INTO

CONTAINS WASTE METAL PRODUCTS, UNSIGHTLY DEBRIS, TOXIC MATERIAL OR ANY OTHER DELETERIOUS SUBSTANCE. IF ADDITIONAL

BACKFILL IS REQUIRED, USE CLEAN MATERIAL FREE OF WASTE METAL PRODUCTS, UNSIGHTLY DEBRIS, TOXIC MATERIAL OR ANY OTHER DELETERIOUS SUBSTANCE.

4. PLACE HEAVY EQUIPMENT ON MATS TO SUITABLY OPERATE THE EQUIPMENT TO PREVENT DAMAGE TO THE NONTIDAL WETLANDS

5. REPAIR AND MAINTAIN ANY SERVICEABLE STRUCTURE OR FILL SO THERE IS NO PERMANENT LOSS OF NONTIDAL WETLANDS IN EXCESS OF NONTIDAL WETLANDS LOST UNDER THE ORIGINAL STRUCTURE OF FILL.

6. RECTIFY ANY NONTIDAL WETLANDS TEMPORARILY IMPACTED BY

7. ALL STABILIZATION IN THE WETLAND AND BUFFER SHALL BE OF THE FOLLOWING RECOMMENDED SPECIES: ANNUAL RYEGRASS (LOLIUM MULTIFLORUM), MILLET (SETARIA ITALICA), BARLEY (HORDEUM SP), OATS (UNIOLA SP), AND/OR RYE (SECALE CEREALE). THESE SPECIES WILL ALLOW FOR THE STABILIZATION OF THE SITE WHILE ALSO ALLOWING FOR THE VOLUNTARY REVEGETATION OF NATURAL WETLAND

8. AFTER INSTALLATION HAS BEEN COMPLETED, MAKE POST CONSTRUCTION GRADES AND ELEVATIONS OF NONTIDAL WETLANDS THE SAME AS THE ORIGINAL GRADES AND ELEVATIONS IN

9. TO PROTECT IMPORTANT AQUATIC SPECIES, IN-STREAM WORK IS PROHIBITED AS DETERMINED BY THE CLASSIFICATION OF THE

BE CONDUCTED DURING THE PERIOD OF MARCH I THROUGH JUNE 15, INCLUSIVE, DURING ANY YEAR.

10. STORMWATER RUNOFF FROM IMPERVIOUS SURFACES SHALL BE CONTROLLED TO PREVENT THE WASHING OF DEBRIS INTO THE

II. CULVERT(S) SHALL BE CONSTRUCTED AND ANY RIP-RAP PLACED SO AS NOT TO OBSTRUCT THE MOVEMENT OF AQUATIC SPECIES, UNLESS THE PURPOSE OF THE ACTIVITY IS TO IMPOUND WATER.

STREAM AS FOLLOWS: CLASS I WATER-IN STREAM WORK MAY NOT

DEPARTMENT OF RECREATION & PARKS HOWARD COUNTY, MARYLAND

DIRECTOR DEPARTMENT OF

RECREATION AND PARKS

GPI Greenman-Pedersen,Inc.

NGINEERS, ARCHITECTS, PLANNERS, CONSTRUCTION ENGINEERS & INSPECTOR 10620 GUILFORD ROAD, JESSUP, MARYLAND, 20794 WASH. (301) 470-2772 BALT. (410) 880-3055 FAX: (301) 490-2649 www.gpinet.com .



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CONSTRUCTION DETAILS

_BLOCK NO.

'SCALE MAP NO.

CENTENNIAL ACCESS PATHWAY

SDP SHEET 5 OF 9

HOWARD COUNTY, MARYLAND CAPITAL PROJECT NO. N-3919

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20/10/05

SCALE

AS

SHOWN

SHEET

5 OF 14

Date

wed for Howard SCD and meets Technical Requirements

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

"Icertify that this plan for erosion and sediment control represents a practical and workable plan based on personal Knowledge of the site conditions and that it was prepared in accordance with the requirements of the Howard Soil Conservation District 9-17-03

Signature of Engineer Date

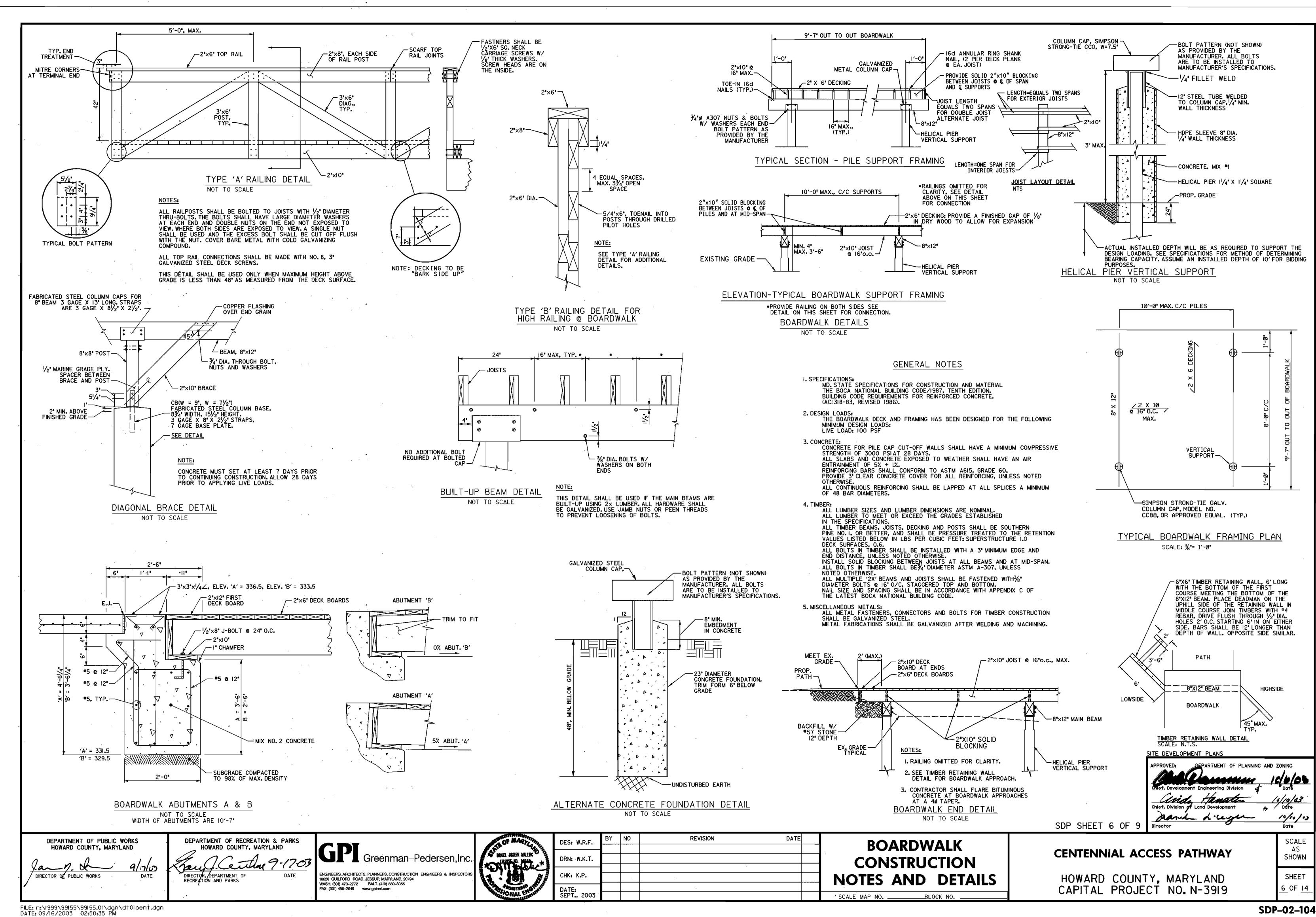
EPARTMENT OF PLANNING AND ZONING

Signature of Chief, Bureau of Engineering

DEVELOPERS CERTIFICATE

ENGINEERS CERTIFICATE

SITE DEVELOPMENT PLANS



<u>FOR</u>

LAND GRADING Design Criterio

The grading plan should be based upon the incorporation of building designs and street layouts that fit and utilize existing topography and desirable natural surroundings to avoid extreme grade modifications. Information submitted must provide sufficient topographic surveys and soli investigations to determine limitations that must be imposed on the grading operation related to slope Apply to graded or cleared areas not subject to immediate further disturbance where a permanent long-lived stability, effect on adjacent properties and drainage patterns, measures for drainage and water removal vegetative cover is needed. and vegetative treatment, etc.

Many counties have regulations and design procedures already established for land grading and cut and fill slopes. Where these requirements exist, they shall be followed. The plan must show existing and proposed contours of the area(s) to be graded. The plan shall also include practices for erosion control, slope stabilization, safe disposal of runoff water and drainage, such as waterways, lined ditches, reverse slope benches (include grade and cross section), grade stabilization structures, retaining walls, and surface and subsurface drains. The plan shall also include phasing of these practices. The following shall be incorporated into the plan:

I. Provisions shall be made to safely conduct surface runoff to storm drains, protected outlets or to stable water courses to insure that surface runoff will not damage slopes or other graded

- II. Cut and fill slopes that are to be stabilized with grasses shall not be steeper than 2:1. (Where the slope is to be moved the slope should be no steeper than 3s; 4sl is preferred because of safety factors related to mowing steep slopes.) Slopes exceeding 2:1 shall require special design and stabilization considerations that shall be adequately shown on the plans.
- III. Reverse benches shall be provided whenever the vertical interval (height) of any 2:1 slope exceeds 20 feet: for 3:1 slope it shall be increased to 30 feet and for 4:1 to 40 feet. Benches shall be located to divide the slope face as equally as possible and shall convey the water to a stable outlet. Solls, seeps, rock outcrops, etc., shall also be taken into consideration when designing benches.
 - A. Benches shall be a minimum of six-feet wide to provide for ease of maintenance.
 - B. Benches shall be designed with a reverse slope of 6:1 or flatter to the toe of the upper slope and with a minimum of one foot in depth. Bench gradient to the outlet shall be between 2 percent and 3 percent, unless accompanied by appropriate design and computations.
- C. The flow length within a bench shall not exceed 800' unless accompanied by appropriate design and computations. For flow channel stabilization see temporary
- IV. Surface water shall be diverted from the face of all cut and/or fill slopes by the use of earth dikes, ditches and swales or conveyed downslope by the use of a designed structure, except
- A. The face of the slope is or shall be stabilized and the face of all graded slopes shall be
- protected from surface runoff until they are stabilized. B. The face of the slope shall not be subject to any concentrated flows of surface water
- such as from natural drainageways, graded swales, downspouts, etc. C. The face of the slope will be protected by special erosion control materials, to include,
- but not limited to: approved vegetative stabilization practices (see section G), rip-rap or other approved stabilization methods.
- V. Cut slopes occurring in ripable rock shall be serrated as shown on the following diagram. These serrations shall be made with conventional equipment as the excavation is made. Each step or serration shall be constructed on the contour and will have steps cut at nominal twofoot intervals with nominal three-foot horizontal shelves. These steps will vary depending on the slope ratio or the cut slope. The nominal slope line is is. These steps will weather and act to hold moisture, lime, fertilizer and seed thus producing a much quicker and longer lived vegetative cover and better slope stabilization. Overland flow shall be diverted from the top of all serrated cut slopes and carries to a suitable outlet.
- VI. Subsurface drainage shall be provided where necessary to intercept seepage that would otherwise adversely affect slope stability or create excessively wet site conditions.
- VII. Slopes shall not be created so close to property lines as to endanger adjoining properties without adequately protecting such properties against sedimentation, erosion, slippage, settlement, subsidence or other related damages.
- VIII. Fill material shall be free of brush, rubbish, rocks, logs, stumps, building debris, and other objectionable material. It should be free of stones over two (2) inches in diameter where compacted by hand or mechanical tampers or over eight (8) inches in diameter where compacted by rollers or other equipment. Frozen material shall not be placed in the fill nor
- IX. Stockpiles, borrow areas and spoil shall be shown on the plans and shall be subject to the provisions of this Standard and Specifications.
- X. All disturbed areas shall be stablized structurally or vegetatively in compliance with 20.0 Standards and Specifications for Vegetative Stabilization.

Wetland Seed Mix Table For Turf Establishment

		Percent of	Purity Percent	Weedseed Percent	Germanation Percent
Botanical Name	Common Name	Seed Mix	√ Min•	Max.	Min.
Poa Trivialis L.	Rough Stalk Bluegrass	10	90	1	80
Agrostis Albo L.	Red Top	30	90	1	80
Lolium Species	Annual Ryearass	30	90	1	80
Panicum Virgatum		30 30	90	1	80

- Note: * Application rate shall be 20 lbs/Acre.
 - * Seed mix percentages are based upon weight * This seed mix will be used in areas that are delineated as wetlands on the
 - Construction Documents unless otherwise directed by the engineer-* Seeds shall be mixed offsite and delivered throughly mixed.
 - * This mix is to be used for temporary seeding when directed by

Seed Mix Table For Turf Establishment In Shaded greas

	Common Name	Percent of Seed Mix	Purity Percent Min.	Weedseed Percent Max.	Germanation Percent Min.
•	Shadow chewing fescue or other improved chewing fescue Aurora hard fescue or other improved hard fescue Flyer creeping red fescue or other creeping red fescue, Glade kentucky bluegrass or improved kentucky bluegrass Manhattan II. Affinity or other improved perenial ryegra	30 30 20 10 ss 10	90 90 90 90 90	1 1 1 1	80 80 80 80
	Note: * Application rate shall be 20 lbs/Acre.				

- * Seed mix percentages are based upon weight. * This seed mix will supersede any other permanent seed mixture listed in the Contract
- Documents unless otherwise allowed by the engineer.
- * Seeds shall be mixed offsite and delivered throughly mixed.
- * This mix is to be used for temporary seeding when directed by

the engineer.

DIRECTOR OF PUBLIC WORKS

HOWARD COUNTY, MARYLAND

DEPARTMENT OF PUBLIC WORKS

DEPARTMENT OF RECREATION & PARKS HOWARD COUNTY, MARYLAND

DIRECTOR, DEPARTMENT OF RECREATION AND PARKS

GPI Greenman-Pedersen,Inc.

10620 GUILFORD ROAD, JESSUP, MARYLAND, 20794 WASH, (301) 470-2772 BALT, (410) 880-3055

FAX: (301) 490-2649 www.gpinet.com

NGINEERS, ARCHITECTS, PLANNERS, CONSTRUCTION ENGINEERS & INSPECTOR:



HOWARD SOIL CONSERVATION DISTRICT

PERMANENT SEEDING NOTES

Seedbed Preparation: Loosen upper three inches of soil by raking, disking or other acceptable means

I. Preferred - Apply 2 tons/gores dolomitic limestone (92 lbs/1000 sq. ft.) And 600 lbs/gore 10-10-10

2. Acceptable - Apply 2 tons/acres dolomitic limestone (92 lbs/1000 sq. ft.)and 1000 lbs/acre 10-10-10

Seeding: For the periods March I - April 30, and August I - October 15, seed with 60 lbs/acres (1.4

Maintenance: inspect all seeding areas and make needed repairs, replacements and reseedings.

TEMPORARY SEEDING NOTES

Seedbed Preparation: Loosen upper three inches of soil by raking, disking or other acceptable means

Seeding: For periods March I - April 30 and from August 15 - October 15, seed with 2-1/2 bushelper acre

Mulching: Apply 1-1/2 to 2 tons per acre (70 - 90 lbs/1000 sq. ft.)of unrotted small grain straw immediately

acre (5 gal/1000 sq. ft.) of emulsified asphalt on flat areas. On slope 8 feet or higher, use 348 gailons per

after seeding. Anchor mulch immediately after application using mulch anchoring tool or 218 gallons per

of annual rye (3.2 lbs/1000 sq. ft.). For the period May I - August 14, seed with 3 lbs/acre of weeping lovegrass (0.07 lbs/1000 lbs/sq. ft.). For the period November 16 - February 28, protect site by applying 2

tons/acre of well anchored straw mulch and seed as soon as possible in the spring, or use sod.

HOWARD SOIL CONSERVATION DISTRICT

STANDARD SEDIMENT CONTROL NOTES

are to be in conformance with the 1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR

B) 14 calender days as to all other disturbed or graded areas on the project site.

1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT

1. A minimum of 48 hours notice must be given to the Howard County Department of Inspections,

3. Following initial soil disturbance or re-disturbance, permanent or temporary stabilization shall be

Licenses and Permits, Sediment Control Division prior to start of any construction (313-1855).

2. All vegetative and structural practices are to be installed according to the provisions of this plan and

A) 7 calender days for all perimeter sediment control structures, dikes, perimeter slopes and all

4. All sediment traps/basins shown must be fenced and warning signs posted around their perimeter in

All disturbed areas must be stabilized within the time period specified above in accordance with the

CONTROL for permanent seeding, sod, temporary seeding and mulching (section g). Temporary

stabilization with mulch alone shall only be done when recommended seeding dates do not allow for

6. All sediment control structures are to remain in place and are to be maintained in operative condition until permission for there removal has been obtained from the Howard County Sediment Control

= 1.33 Acres

= 1.33 Acres

= 0.38 Acres

= 0.95 Acres

8. Any sediment control practice which is disturbed by grading activity for placement of utilities must 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

II. Trenches for the construction of utilities is limited to three pipe lengths or that which shall be back-filled

9. Additional sediment control must be provided, if deemed necessary by the Howard County Sediment

10. On all sites with disturbed areas in excess of 2 acres, approval of the inspection agency shall be

Offsite waste/borrow area location ____ TO BE DETERMINED BY THE CONTRACTOR

may not be authorized until this initial approval by the inspection agency is made.

and stabilized within one working day, whichever is shorter.

= 1,200 Cu. Yds.

Ibs/1000 sq. ft.) Of Kentucky 31 Tall Fescue per acres and 2 Ibs/acre (0.05 lbs/1000 sq. ft.) Of weeping

fertilizer (23 lbs/1000 sq. ft.) Before seeding. Harrow or disk into upper three inches of soil.

Option 1 - Two tons per acres of well anchored straw mulch and seed as soon as possible in the spring.

Option 3 - seed with 60 lbs/acres Kentucky 30 tall fescue and mulch with 2 tons/acre well anchored straw.

Mulching: Apply 1-1/2 to 2 tons per acre (70 - 90 lbs/1000 sq. ft.)of unrotted small grain straw immediately

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

after seeding. Anchor mulch immediately after application using mulch anchoring tool or 218 gallons per acre (5 gal/1000 sq. ft.) of emulsified asphalt on flat areas. On slope 8 feet or higher, use 348 gallions per

fertilizer (14 lbs/1000 sq. ft.) before seeding. Harrow or disk into upper three inches of soil. At time

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

of seeding, apply 400 lbs/acre 30-0-0 ureaform fertilizer (9 lbs/1000 sq. ft.)

lovegrass. During the period of October 16 - February 28, protect site by:

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

SOIL EROSION AND SEDIMENT CONTROL and revisions thereto.

proper germination and establishment of grasses.

Option 2 - use sod.

acre (8 gal/1000 sq. ft.) for anchoring.

before seeding, if not previously loosened.

acre (8 gal/1000 sq. ft.) for anchoring.

completed within:

7. Site Analysis:

Total Area of Site

Area to be Roofed or Paved

Area to be Vegetatively Stabilized

repaired on the same day of disturbance.

Area Disturbed

Control Inspector.

slopes steeper than 3:1.

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21.0 STANDARD AND SPECIFICATIONS

TOPSOIL

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

Conditions Where Practice Applies

To provide a suitable soil medium for vegetative growth. Soils of concern have low moisture content, low nutrient levels, low pH, materials toxic to plants, and/or unacceptable soil gradation.

I. This practice is limited to areas having 2:1 or flatter slopes where:

- A. The texture of the exposed subsoil/parent material is not adequate to produce
- B. The soil material is so shallow that the rooting zone is not deep enough to support plants or furnish continuing supplies of moisture and plant nutrients.
- C. The original soil to be vegetated contains material toxic to plant growth.
- D. The soil is so acidic that treatment with limestone is not feasible.
- II. For the purpose of these Standards and Specifications, areas having slopes steeper than 2:1 require special consideration and design for adequate stabilization. Areas having slopes

steeper than 2: shall have the appropriate stabilization shown on the plans. Construction and Material Specifications

i. Topsoil salvaged from the existing site may be used provided that it meets the standards as set forth in these specifications. Typically, the depth of topsoil to be salvaged for a given soil type ran be found in the representative soil profile section in the Soil Survey published by USDA-SCS in cooperation with Maryland Agricultural Experimental Station.

H. Topsoil Specifications - Soil to be used as topsoil must meet the following:

- A. Topsoli shall be a loam, sandy loam, clay loam, silt loam, sandy clay loam, loamy sand. Other soils may be used if recommended by an agronomist or soil scientist and approved by the appropriate approval authority. Regardless, topsoil shall not be a mixture of contrasting textured subsoils and shall contain less than 5% by volume of cinders, stones, slag, coarse fragments, gravel, sticks, roots, trash, or other materials larger than 11/2' in diameter.
- B. Topsoff must be free of plants or plant parts such as bermuda grass, quackgrass, Johnsongrass, nutsedge, poison lvy, thistle, or others as specified.
- C. Where the subsoil is either highly acidic or composed of heavy clays, (ground Ilmestone shall be spread at the rate of 4-8 tons/acre (200-400 pounds per 1,000 square feet) prior to the placement of topsoil. Lime shall be distributed uniformly over designated areas and worked into the soil in conjunction with tillage operations as described in the following procedures.
- III. For sites having disturbed areas under 5 acres place topsoil (if required) and apply soil amendments as specified in 20.0 Vegetative .Stabilization - Section I- Vegetative Stabilization Methods and Materials.

IV. For sites having disturbed areas over 5 acres:

- A. On soil meeting Topsoil specifications, obtain test results dictating fertilizer and lime amendments required to bring the soil into compliance with the following:
 - I. pH for topsoil shall be between 6.0 and 7.5. If the tested soil demonstrates a pH of less than 6.0, sufficient lime shall be prescribed to raise the pH to
 - 2. Organic content of topsoli shall be not less than 1.5 percent by weight.
 - 3. Topsoil having soluble salt content greater than 500 parts per million shall not be used.
- 4. No sod or seed shall be placed on soil which has been treated with soil sterilants or chemicals used for weed control until sufficient time has elapsed (14 days min.) to permit dissipation of phyto-toxic materials,

Note: Topsoil substitutes or amendments, as recommends by a qualified agronomist or soil scientist and approved by the appropriate approval authority, may be used in lieu of natural

B. Place topsoil (if required) and apply soil amendments as specified in 20.0 Vegetative Stabilization - Section I - Vegetative Stabilization Methods and

V. Topsoil Application

- A. When topsoiling, maintain needed erosion and sediment control practices such as diversions, Grade Stabilization Structures, Earth Dikes, Siope Slit Fence and Sediment
 - I. Grades on the areas to be topsoiled, which have been previously established, shall be maintained, albeit 4° - 8° higher in elevation.
 - 2. Topsoil shall be uniformly distributed in a 4" 8" layer and lightly compacted to a minimum thickness of 4". Spreading shall be performed in such a manner that sodding or seeding can proceed with a minimum of additional soil preparation and tillage. Any irregularities in the surface resulting, from topsoiling or other operations shall be corrected in order to prevent the formation of depressions or water pockets.
 - 3. Topsoll shall not be placed while the topsoll or subsoll is in a frozen or muddy condition, when the subsoil is excessively wet or in a condition that may otherwise be detrimental to proper grading and seedbed preparation.
 - VI. Alternative for Permanent Seeding Instead of applying the full amounts of lime and commercial fertilizer, composted sludge and amendments may be applied as specified below:
- A. Composted Sludge Material for use as a soil conditioner for sites having disturbed areas over 5 acres shall be tested to prescribe amendments and for sites having disturbed areas under 5 acres shall conform to the following, requirements:
 - I. Composted studge shall be supplied by, or originate from, a person or persons that are permitted (at the time of acquisition of the compost) by the Maryland Department of the Environment under COMAR 26.04.06.
 - 2. Composted sludge shall contain at least I percent nitrogen, 1.5 percent phosphorus, and 0.2 percent potassium and have a Ph of 7.0 to 8.0. If compost does not meet these requirements, the appropriate constituents must be added to meet the requirements prior to use.
- 3. Composted sludge shall be applied at a rate of iton/1,000 square feet.
- B. Composted sludge shall be amended with a potassium fertilizer applied at the rate of 4 lb/1,000 square feet, and 1/3 the normal lime application rate.

GRADING, SEDIMENT

AND EROSION

CONTROL NOTES

BLOCK NO.

'SCALE MAP NO.

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

SEQUENCE OF CONSTRUCTION

I. Contact the Howard County Sediment Control Inspector 48 hours prior to start Of work, inform the inspector of the starting date.

5 days 2. Install Stabilized construction entrances at the locations shown on the site plan.

3. Contractor shall stake out entire length of pathway prior to any clearing and arubbina.

68 days 4. Contractor shall begin installation of proposed pedestrian bridge.

- 60 days 5. Contractor to begin construction of the pathway. Contractor to stabilize with graded aggregate sub-base and seed & mulch at the end of each word day. Before work begins, the contractor shall install tree protective fencing within 5' of L.O.D. using the detail on sheet 8.
- 6. install culverts at ESOI, ESO3, EOO5 and ESO7 using the typical sediment control detail "A"
- 20 days 7. Wood chips from cleared trees to be used to stabilize the disturbed areas in the wooded sections of the path. Seed & mulch to be used on the sections of the path exposed to sunlight. Shady seed mix shall be used in all shaded areas. Wetland seed mix shall be used in all wetland areas.
- 5 days 8. Remove all sediment and erosion control measures after acquiring approval from Howard County SCD Inspector.

180 calendar days

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

ENGINEERS CERTIFICATE "Icertify that this plan for erosion and sediment control represents a practical and workable plan based on personal Knowledge of the site conditions and that it was prepared in accordance with the requirements of the Howard Soll Conservation District."

9-17-03

Signature of Engineer

SITE DEVELOPMENT PLANS

PARTMENT OF PLANNING AND ZONING Chief. Division of Land Development 10/10/03 pank is regel etpO

SDP SHEET 7 OF 9

CENTENNIAL ACCESS PATHWAY

HOWARD COUNTY, MARYLAND CAPITAL PROJECT NO. N-3919

SHEET 7 OF 14

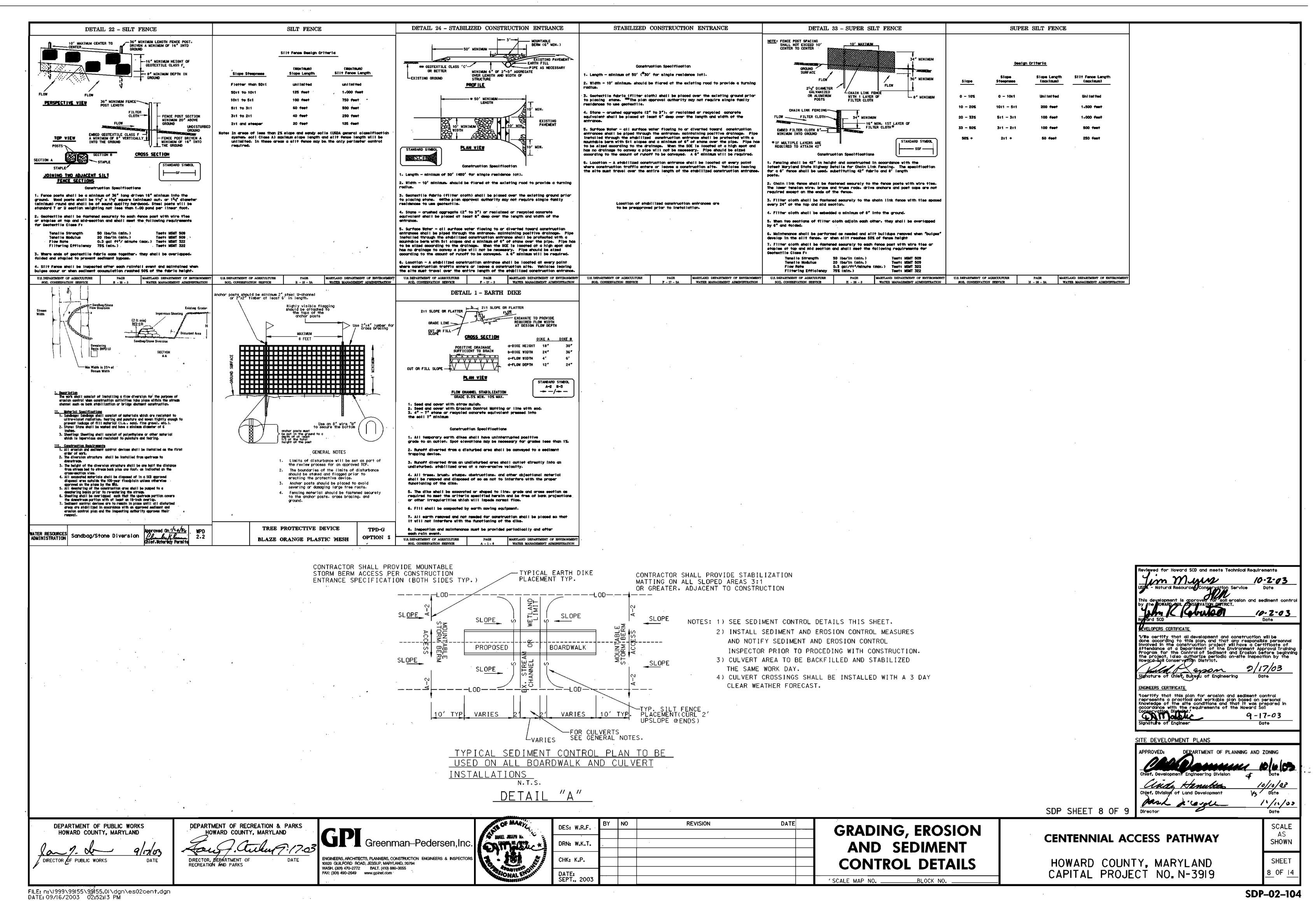
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