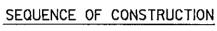
Harding Road Roadway Improvements Scaggsville, Maryland

HOWARD COUNTY, MARYLAND DEPARTMENT OF PUBLIC WORKS CAPITAL PROJECT NO.: J-4188



- O DAYS
 I.NOTIFY HOWARD COUNTY SEDIMENT AND EROSION CONTROL INSPECTOR
 AT LEAST 48 HOURS IN ADVANCE OF ANY CONSTRUCTION AND SCHEDULE A
 PRE-CONSTRUCTION WALK-THROUGH OF THE SITE.
- 2 DAYS
 2. COORDINATE LOCATION OF STABILIZED CONSTRUCTION ENTRANCE WITH SEC INSPECTOR. IMMEDIATELY STABILIZE ALL AREAS DISTURBED BY STORM DRAIN INSTALLATION. ALL TREE CLEARING SHALL BE MINIMIZED.
- 21 DAYS

 3. BEGIN INSTALLATION OF STORM DRAIN SYSTEM, CONSTRUCTION SHALL PROCEED FROM DOWNSTREAM TO UPSTREAM.
- 5 DAYS 4. INSTALL NEW CONCRETE CURB.
- 7 DAYS 5. INSTALL NEW BITUMINOUS PAVEMENT.
- 2 DAYS 6. PLACE TOPSOIL, SEED AND MULCH IN ANY REMAINING DISTURBED AREAS.
- 4 DAYS
 7. ONCE ALL DISTURBED AREAS ARE STABILIZED AND WITH APPROVAL BY THE SEDIMENT AND EROSION CONTROL INSPECTOR, SEDIMENT CONTROL DEVICES MAY BE REMOVED.

TOTAL 41 DAYS

Professional Certification:

'I hereby certify that these documents were prepared

or approved by me, and that l

am a duly licensed professional

engineer under the laws of the

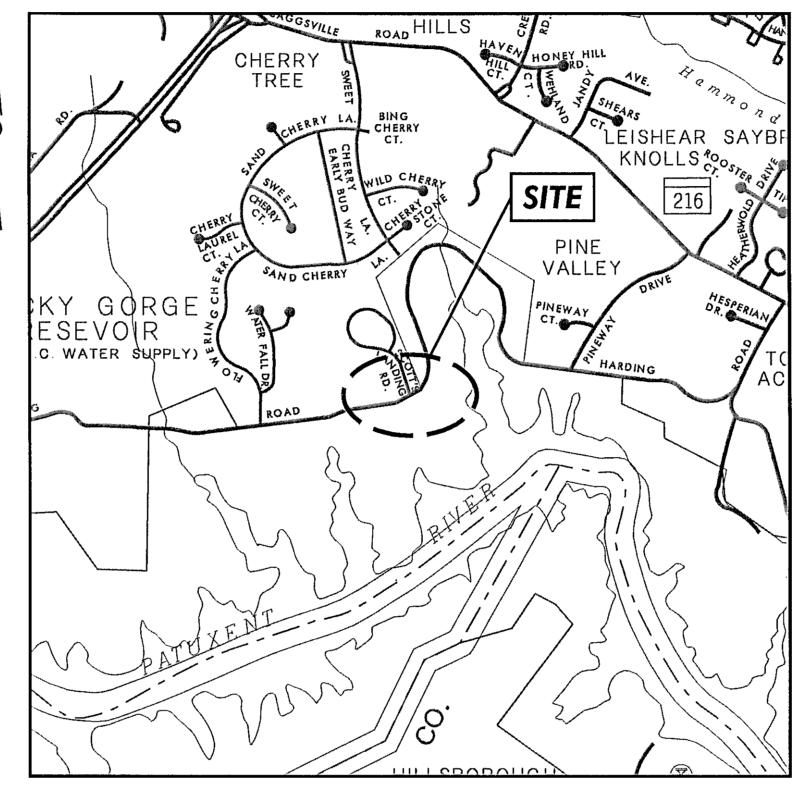
state of Maryland license No.

GENERAL NOTES

- I. INFORMATION CONCERNING UNDERGROUND UTILITIES WAS OBTAINED FROM THE BEST AVAILIBLE RECORDS. THE CONTRACTOR MUST DETERMINE THE EXACT LOCATIONS AND ELEVATIONS OF THE UTILITIES BY DIGGING TEST PITS AT ALL UTILITY CROSSINGS PRIOR TO CONSTRUCTION.
 IF CLEARANCES ARE LESS THAN SPECIFIED ON THIS PLAN OR LESS THAN 12 INCHES WHEN NOT SPECIFIED, CONTACT THE ENGINEER AND THE OWNER OF OTHER INVOLVED UTILITY.
- 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.
 - BALTIMORE GAS & ELECTRIC COMPANY UNDERGROUND ELECTRIC DISTRIBUTION CUSTOMER SERVICE (410) 685-0123,
 - VERIZON I (410) 224-9285,
- AMERICAN TELEPHONE & TELEGRAPH CABLE LOCATION DIVISION (410) 393-3553,
- BUREAU OF UTILITIES, HOWARD COUNTY (410) 313-2040,
- HOWARD COUNTY SOIL CONSERVATION DISTRICT (410) 489-7987
- 3. THE SITE SURVEY WAS PERFORMED BY J.A. RICE. IN JULY OF 2006. THE HORIZONTAL IS REFERENCED TO THE NORTH AMERICAN DATUM OF 1983 MARYLAND STATE PLANE GRID SYSTEM WITH THE 1991 HARNS ADJUSTMENT (NAD 83/91). THE VERTICAL IS REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88). THE HORIZONTAL AND VERTICAL ARE BASED ON AND ESTABLISHED FROM HOWARD COUNTY GEODETIC CONTROL STATIONS 0010 (241A), 24F4 and 24F3.
- 4. AVOID DAMAGE TO TREES ON THE SITE TO MAXIMUM EXTENT. OTHER TREES WITHIN LIMITS OF CONSTRUCTION SHALL NOT BE DESTROYED WITHOUT APPROVAL OF THE ENGINEER. TREES > 12" DBH WITHIN LOD SHALL BE PROTECTED USING TREE PROTECTIVE FENCING.
- 5. FOR DETAILS NOT SHOWN ON THESE DRAWINGS, AND FOR MATERIALS AND CONSTRUCTION METHODS, USE HOWARD CO. DESIGN MANUAL, VOL. IV STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION (LATEST EDITION). THE CONTRACTOR SHALL HAVE A COPY OF VOL. IV ON THE JOB.
- 6. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST STANDARDS AND SPECIFICATIONS OF HOWARD COUNTY PLUS MSHA STANDARDS AND SPECIFICATIONS IF APPLICABLE.

SPECIAL PROJECTS

7. 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 THE PLACEMENT OF ANY ASPHALT.

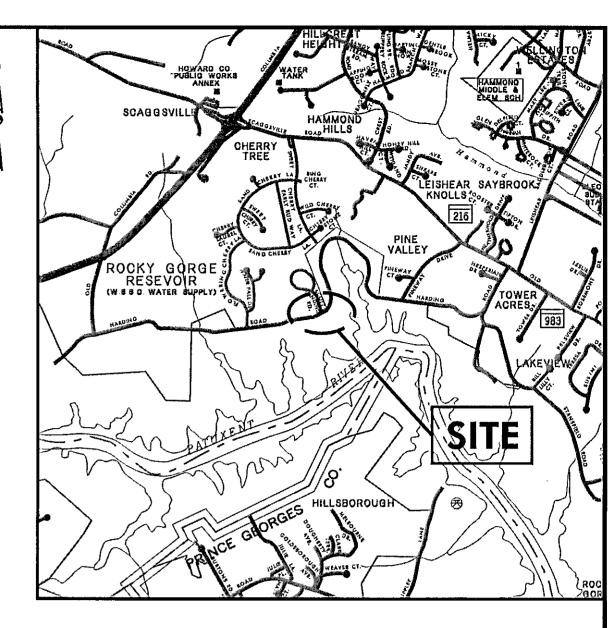


LOCATION MAP

SCALE: 1" = 1000'

INDEX

SHEET NO.	TITLE
1	TITLE SHEET
2	EXISTING CONDITION PLAN
3	SITE PLAN: WEST OF SCOTTS LANDING ROAD
4	SITE PLAN: EAST OF SCOTTS LANDING ROAD
5	SEDIMENT AND EROSION CONTROL DETAILS
6	SEDIMENT AND EROSION CONTROL NOTES



VICINITY MAP SCALE: |" = 2000'

LEGEND

EX. CONTOURS	400
EX. TREES	○ �
EX. UTILITY POLE	-0-
EX. FIRE HYDRANT	r ⊘ a
EX. SANITARY MAIN	— — SAN — — — — — —
EX. STORMDRAIN PIPE	
EX. STORMDRAIN STRUCTURE	
EX. WATER MAIN	w
PROPOSED CONTOURS	400
PROPOSED STORMDRAIN PIPE	
PROPOSED STORMDRAIN STRUCTURE	
PROPOSED OVERLAY AREA	
REMOVE AND REPLACE DRIVEWAY APRON	
LIMIT OF DISTURBANCE	LOD

DEVELOPERS CERTIFICATE

"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. Ialso authorize periodic on-site inspection by the Howard Soil Conservation District.

Signature of Chief, Bureau of Engineering Date

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 Soil Conservation District.

Daniel Jalan Signature of Engineer

7.16.13

Harding Road Roadway Improvements

SHEET _ OF <u>_6</u>

SCALE:

AS SHOWN

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19916 Expiration Date: 1/14/2015 DEPARTMENT OF PUBLIC WORKS HOWARD GOUNTY, MARYLAND

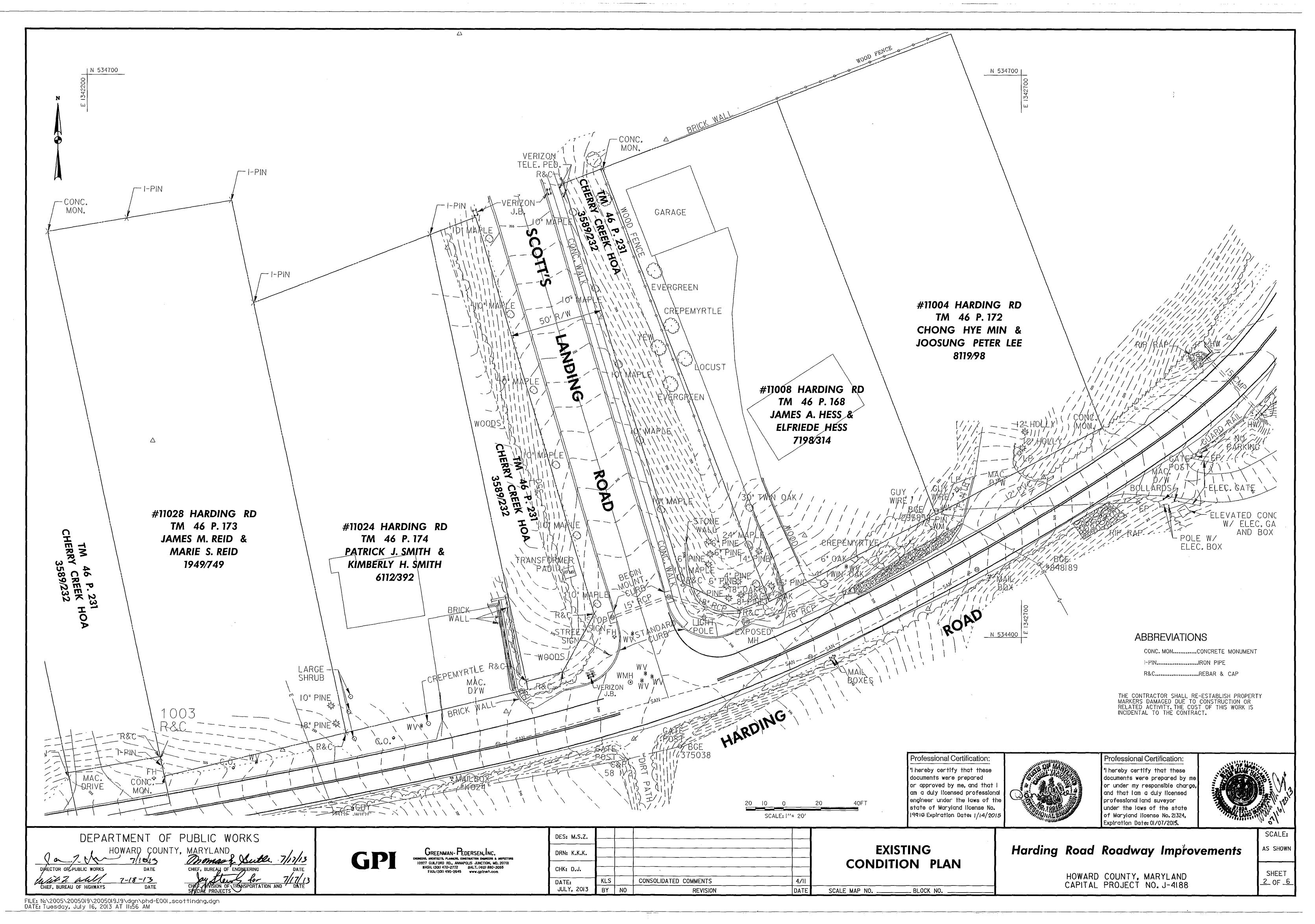
GREENMAN-PEDERSEN, INC. ENGINEERS, ARCHITECTS, PLANNERS, CONSTRUCTION ENGINEERS & INSPECTORS 10977 GUILFORD RD., ANNAPOLIS JUNCTION, MD. 20701 WASH. (301) 470-2772 BALT. (410) 880-3055 FAX: (301) 490-2649 www.gpinet.com

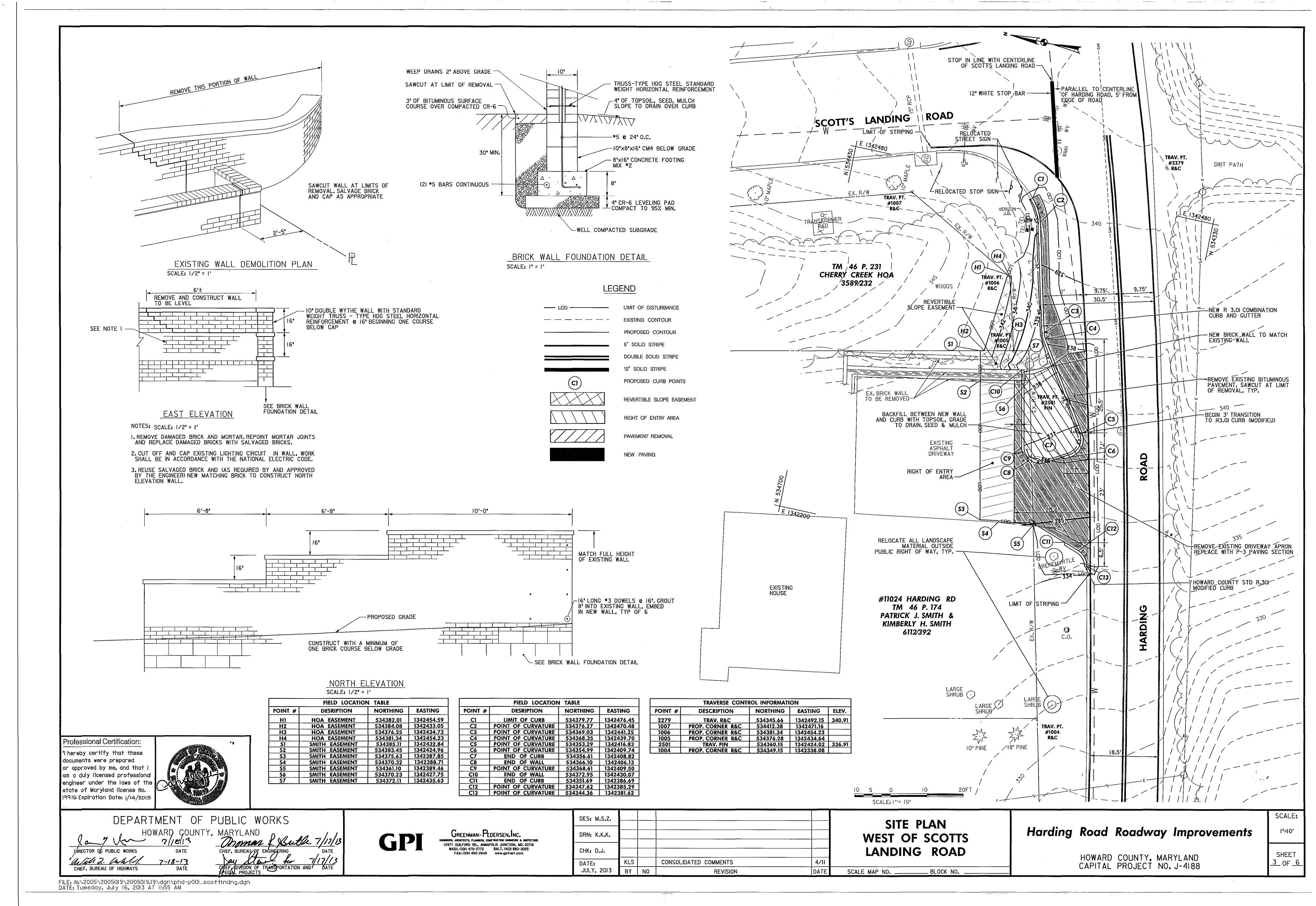
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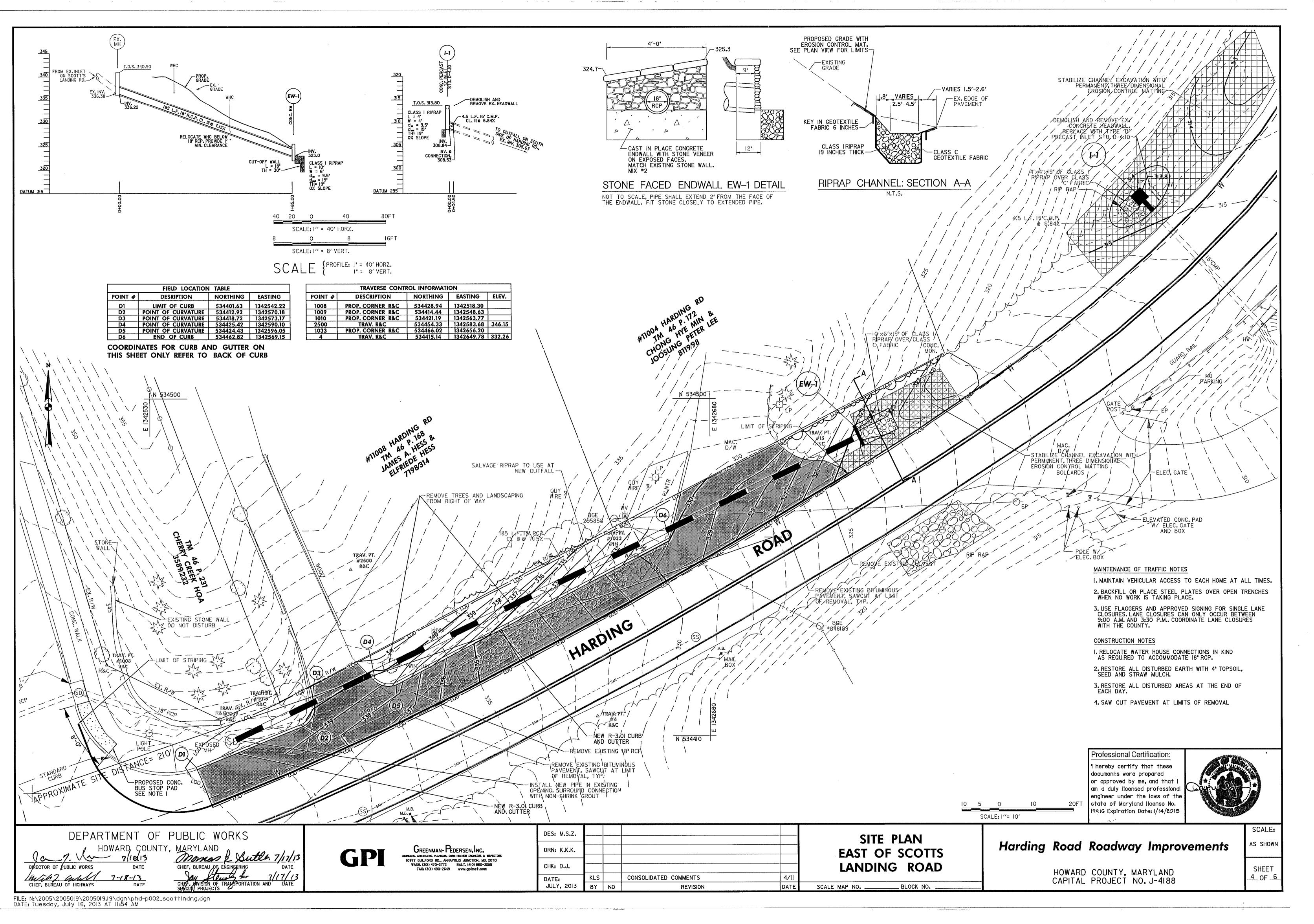
SITE PLAN

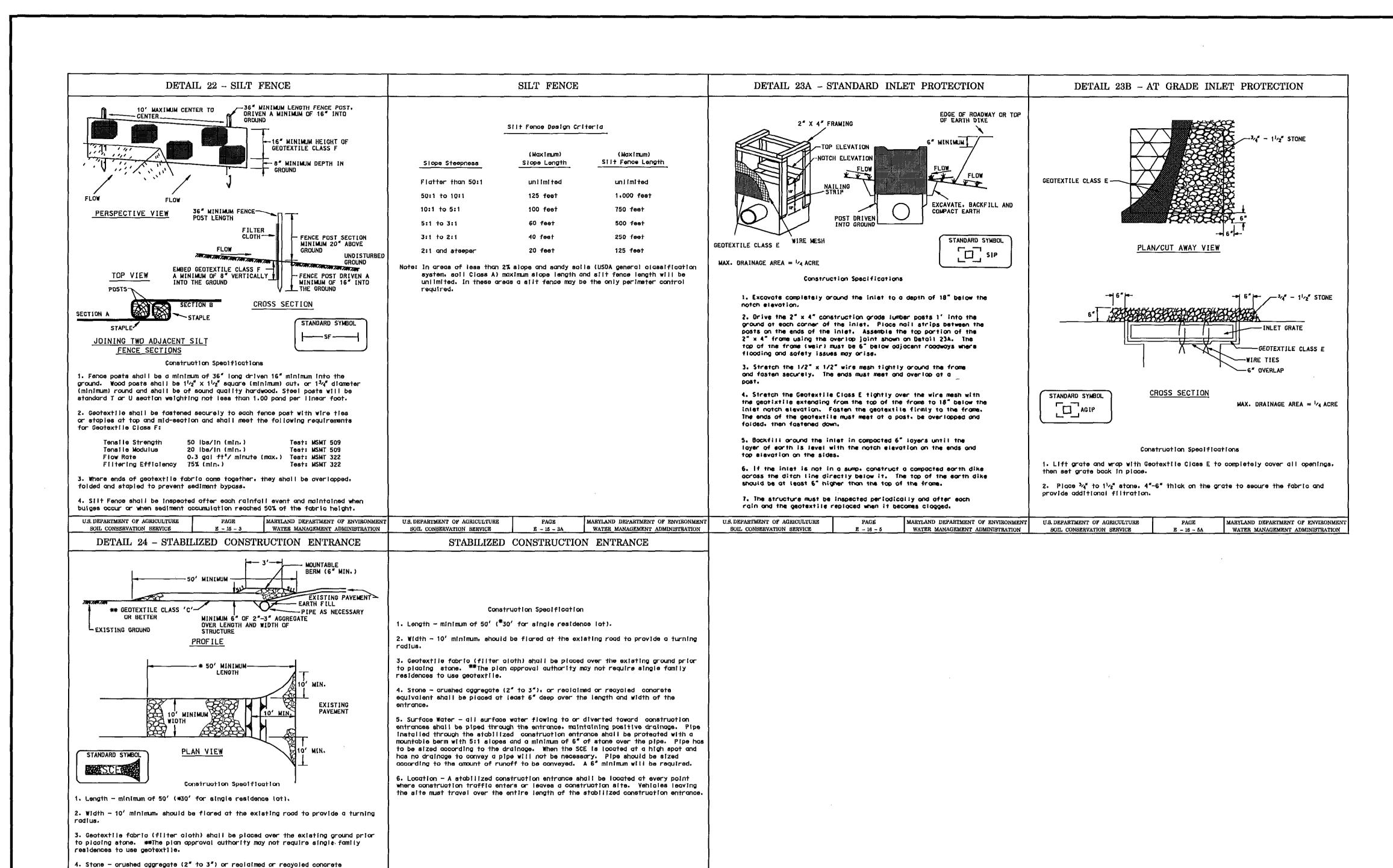
BLOCK NO.

HOWARD COUNTY, MARYLAND CAPITAL PROJECT NO. J-4188





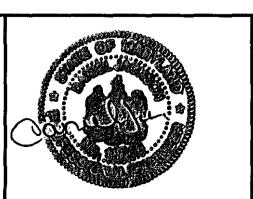




Professional Certification:

'I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the state of Maryland license No. 1991@Expiration Date: 1/14/2015

SOIL CONSERVATION SERVICE



equivalent shall be placed at least 6" deep over the length and width of the

5. Surface Water — all surface water flowing to or diverted toward construction entrances shall be piped through the entrance, maintaining positive drainage. Pipe installed through the stabilized construction entrance shall be protected with a mountable berm with 5:1 slopes and a minimum of 6" of stone over the pipe. Pipe has to be sized according to the drainage. When the SCE is located at a high spot and has no drainage to convey a pipe will not be necessary. Pipe should be sized according to the amount of runoff to be conveyed. A 6" minimum will be required.

6. Location — A stabilized construction entrance shall be located at every point where construction traffic enters or leaves a construction site. Vehicles leaving the site must travel over the entire length of the stabilized construction entrance.

MARYLAND DEPARTMENT OF ENVIRONMENT U.S. DEPARTMENT OF AGRICULTURE

WATER MANAGEMENT ADMINISTRATION

GPI

GREENMAN-PEDERSEN, INC.

DIGNEERS, ARCHTECTS, PLANERS, CONSTRUCTION DIGNEERS & INSPECTORS
10977 GUILFORD RD., ANNAPOLIS JUNCTION, MD. 20701
WASH. (301) 470-2772
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WWW.gpinet.gom

MARYLAND DEPARTMENT OF ENVIRONMENT

WATER MANAGEMENT ADMINISTRATION

DES: M.S.Z.				
DRN: K.K.K.			·	
CHK: D.J.				
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SEDIMENT AND EROSION CONTROL DETAILS

SCALE MAP NO. ____

_ BLOCK NO.

Harding Road Roadway Improvements

SCALE:

AS SHOWN

SHEET

<u>5</u> of <u>6</u>

HOWARD COUNTY, MARYLAND CAPITAL PROJECT NO. J-4188

19.0 STANDARDS AND SPECIFICATIONS FOR

LAND GRADING

Design Criteria:

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 soil investigations to determine limitations that must be imposed on the grading operation related to slope stability, effect on adjacent properties and drainage patterns, measures for drainage and water removal 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.
- 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 3:1; 4:1 is preferred because of safety factors related to moving steep slopes.) Slopes exceeding 2:1 shall require special design and stabilization considerations that shall be adequately shown on the plans.
- Ill. 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. Soils, seeps, rock outcrops, etc., shall also be taken into consideration when designing
- 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 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.
- 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 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 two-foot 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 i:1. 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 shall the fill material be placed on a frozen foundation.

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 stabilized structurally or vegetatively in compliance with 20.0 Standards and Specifications for Vegetative Stabilization.
- Seed Mix Table For Turf Establishment In Shaded areas:

Common Name	Percent of Seed Mix	Percent Purity Min.	Percent Weedseed Max.	Percent Germination Mi
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 ryegrass	30 30 20 10 10	90 90 90 90 90		80 80 80 80 80

Notes:

*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.

21.0 STANDARD AND SPECIFICATIONS FOR TOPSOIL

Definition:

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

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

- 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 vegetative growth.
- 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 2:1 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 can be found in the representative soil profile section in the Soil Survey published by USDA-SCS in cooperation with Maryland Agricultural Experimental Station.
- II. Topsoil Specifications Soil to be used as topsoil must meet the following:
- A. Topsoil 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, course fragments, gravel, sticks, roots, trash or other materials larger than 11/2 in diameter.
- B. Topsoil must be free of plants or plant parts such as bermuda grass, quackgrass, Johnsongrass, nutsage, poison ivy, thistle, or others as specified.
- C. Where the subsoil is either highly acidic or composed of heavy clays, (ground limestone shall be spread at the rate of 4-8 tons/acre (200-400 pounds per 1,000 sq. ft.) prior to the placement of topsoil. Lime shall be distrubited 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 Method and
- 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 6.5 or higher.
- 2. Organic content of topsoil shall be not less than 1.5 percent by weight.
- 3. Topsoli 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 sterilents or chemicals used for weed control until sufficient time has elapsed (14 days min.) to permit dissipation of 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 topsoil.

- B. Place topsoil (if required) and apply soil amendments as specified in 20.0 Vegetative Stabilization Section I Vegetative Stabilization Methods and Materials.
- V. Topsoil Application:
- A. When topsoiling, maintain needed erosion and sediment control practices such as diversions, grade stabilization structures, earth dikes, slope silt fence and sediment trap basins.
- 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. Topsoil shall not be placed while the topsoil or subsoil 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 area 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 sludge 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.

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

HOWARD SOIL CONSERVATION DISTRICT PERMANENT SEEDING NOTES

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

Seedbed Preparation:

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

Soil Amendments:

in lieu of soil test recommendations, use one of the following schedules:

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

Seeding:

For the periods March I - April 30 and August I - October 15, seed with 60 lbs/acres (1.4 lbs./1,000 sq. ft.) of kentucky 31 tall fescue per acres and 2 lbs/acre (0.05 lbs/1000 sq. ft.) of weeping lovegrass. During the period of October 16 - February 28, protect site by:

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

Option 2 - use sod.

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

Mulchina:

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

Maintenance:

Inspect all seeding areas and make needed repairs, replacements and reseedings.

TEMPORARY SEEDING NOTES

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

Seedbed Preparation:

Loosen upper three inches of soil by raking, disking or other acceptable means before seeding, if

not previously loosened.

Soil Amendments:

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

Seedings

For periods March I - April 30 and from August 15 - October 15, seed with 2-1/2 bushelper acre of of annual rye (3.2 ibs/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.

Mulching:

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

HOWARD SOIL CONSERVATION DISTRICT STANDARD SEDIMENT CONTROL NOTES

- I. A minimum of 48 hours notice must be given to the Howard County Department of inspections, Licenses and Permits, Sediment Control Division prior to start of any construction (3i3-1855).
- 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 and revisions thereto.
- 3. Following initial soil distúrbance or re-disturbance, permanent or temporary stabilization shall be completed within:
- A) 7 calender days for all perimeter sediment control structures, dikes, perimeter slopes and all slopes steeper than 3:1.
- B)14 calender days as to all other disturbed or graded areas on the project site.
- 4. All sediment traps/basins shown must be fenced and warning signs posted around their perimeter in accordance with Vol.1, Chapter 7 of the HOWARD COUNTY DESIGN MANUAL, Storm drainage.
- 5. All disturbed areas must be stabilized within the time period specified above in accordance with the 1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT 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 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 there removal has been obtained from the Howard County Sediment Control inspector.

7. Site Analysis:

Total Area of Site, R/W and Easements = 0.2 Ac. Area Disturbed = WEST SITE 0.04 Ac., 1555 sf.; EAST SITE 0.10 Ac., 4293 s.f. Area to be Roofed or Paved = 0.08 Ac. Area to be Vegetatively Stabilized = 0.06 Ac. Total FIII = 0.0 CY.

- 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.

- A site with a current active grading permit is needed for offsite waste/borrow. Site plan grading permit or waiver may be necessary.

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 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

II. Trenches for the construction of utilities is limited to three pipe lengths or that which shall be back-filled and stabilized within one working day, whichever is shorter.

proceeding with any other earth disturbance or grading. Other building or grading inspection approvals

DEPARTMENT OF PUBLIC WORKS

DIRECTOR OF PUBLIC WORKS

DATE

CHIEF, BUREAU OF HIGHWAYS

DATE

Professional Certification:

'I hereby certify that these documents were prepared

or approved by me, and that I am a duly licensed professional engineer under the laws of the state of Maryland license No. 19916 Expiration Date: 1/14/2015



GREENMAN-PEDERSEN, INC., INC.,

DES: M.S.Z.

DRN: K.K.K.

CHK: D.J.

DATE:
JULY, 2013 BY NO REVISION

SEDIMENT AND EROSION CONTROL NOTES

BLOCK NO.

4/11

DATE

SCALE MAP NO.

HOWARD COUNTY, MARYL

HOWARD COUNTY, MARYLAND CAPITAL PROJECT NO. J-4188

Harding Road Roadway Improvements

SHEET

<u>6</u> of <u>6</u>

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