

TOWN OF CHEVERLY, MARYLAND
INVITATION FOR BID PW-IFB-FY2021-004
CONSTRUCTION
February 8, 2021



PROJECT TITLE: Cheverly Town Park Rain Garden Installation

PRE-BID CONFERENCE DATE: February 11, 2021, at 10:00 am

PRE-BID CONFERENCE LOCATION: Via Zoom: Join Zoom Meeting
<https://us02web.zoom.us/j/85473229124>

Meeting ID: 854 7322 9124

One tap mobile

+13017158592,,85473229124# US (Washington DC)

PROJECT LOCATION: 6401 Forest Road, Cheverly, MD 20785

OPENING DATE: February 8, 2021, at 8:00 am

CLOSING DATE: March 5, 2021 at 10:00 am

PROJECT CONTACT: Dylan Galloway, Town Administrator or Steve Brayman, Director of Public

Works at: (Adm) 301-773-8360 or (P.W.) 301-773-2666

QUESTIONS: Questions must be submitted in writing to the Town Administrator's office by February 12, 2021, no later than 10:00 am. Electronic messages may be submitted to dgalloway@cheverly-md.gov (and copied to sbrayman@cheverly-md.gov). If necessary, an addendum will be issued and posted on the Town website at www.cheverly-md.gov. **It is the responsibility of the bidder to download any addenda.**

TOWN OF CHEVERLY, MARYLAND INVITATION FOR BID PW-IFB-FY2021-004

CHEVERLY TOWN PARK RAIN GARDEN INSTALLATION

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1. General Information

The Town of Cheverly

The Town of Cheverly (incorporated in 1931) has a population 6,433 as of the 2010 census. The Town offers sanitation, road maintenance, park maintenance, police services and other services. Cheverly operates on a Council form of government with an elected Mayor and six Town Council members. The Town Council appoints the Town Administrator, Chief of Police, Director of Public Works and Town Attorney to carry out its policies and enforce its ordinances.

About this Invitation for Bid

The Town Administrator for the Town of Cheverly seeks bids from Contractors interested in constructing one (1) rain garden at Cheverly Town Park. This project consists of installing sediment and erosion control, tree protection, and safety devices; removing existing fill, and portions of a sidewalk; grading; the removal of select trees; and the construction and installation of one (1) rain garden, trees, seeding, and landscaping. Both quality and value matter. The winning bid will be selected based on price and qualifications.

2. Bid Process

In developing the Invitation for Bid, the Town of Cheverly has worked to reasonably and as capabilities allow ensure that this Invitation for Bid contains enough information for a firm to prepare a satisfactory Proposal. The Town encourages all participating Contractors to submit the most complete and competitive bid possible. If a Contractor requires additional information, the Town of Cheverly is more than happy to answer any questions the company's representatives have.

The timing of the Proposal process is as follows:

A. Distribution of Invitation for Bid

B. Bid Submission

Bids will be received by the Town Administrator, no later than 10:00 AM on March 5, 2021, and shall be mailed or hand delivered to:

Dylan Galloway, Town Administrator
Town of Cheverly
6401 Forest Road
Cheverly, MD 20785

Both the inner and outer envelopes shall have noted thereon:

- i. "Sealed Bid PW-IFB-FY2021-004: Enclosed for Cheverly Town Park Rain Garden Installation"
- ii. The Contractor's name and address

Proposals transmitted via facsimile or email will not be accepted at any time.

C. Bid Documents

The Town will base the selection of a Contractor on documentation submitted in the Bid Documents. A Contractor responding to this bid for the “Invitation for Bid PW-IFB-FY2021-004: Cheverly Town Park Rain Garden Installation” must submit bids using the forms included at the end of this Invitation for Bid and fill in all blank spaces on the forms. Failure to comply with these requirements may result in a disqualification of the Contractor.

Contractors must submit **three (3) total copies of their Bid. These copies must adhere to the following format: two (2) unbound and one (1) digital pdf copy of the bid on thumb drive.** Sealed hard copy bids are due via hand delivery, US Mail, or other delivery service by 10:00 a.m. on March 5, 2021. Any bids received after this time will not be considered and returned unopened.

Submit bids using forms furnished in this Invitation for Bid and fill in all blank spaces on the form. Forms include the following:

- Contractor Information
- Statement of Experience
- Statement of Resources
- Listing of Subcontractors
- Statement of Understanding and Project Schedule
- Non-Collusive Bidding Certificate
- Signed and notarized Affidavit
- Health and Safety Plan, and/or Task Hazard Analysis-Job Safety Analysis
- Price Proposal
- Bid Form for Unit Prices, Item Totals, Subtotals, and Total Base Bid

D. Bid Opening, Review, and Selection

The bid opening will be done via Zoom. Parties interested in participating in the bid opening Zoom meeting should indicate so on sealed bid label with email address to send the Zoom meeting invitation. If possible, the Town will advertise on its website the Zoom meeting information. Town Staff will evaluate, rate, and/or rank each Contractor based on information provided in their bid.

E. Official Approval

The Mayor and the Town Council, with the assistance of the Town Administrator, will consider the recommendation for the Cheverly Town Park Rain Garden Installation and authorize a final contract between the Town of Cheverly and the firm. The estimated award date is March 12, 2021. The estimated contract approval date is March 24, 2021.

F. Conversion Activities

The approved Contractor will be required to coordinate with the Town Administrator all activities necessary to ensure a smooth transition from the undisturbed site to the construction and

inspection process, to the acceptance by the Town. Activities will begin upon notification and should be completed by a time determined by the contract.

G. Contract Effectiveness

The Town will make every effort to administer the bid process in accordance with the terms and dates discussed in the Invitation for Bid. However, the Town of Cheverly reserves the right to modify the Proposal process and dates as deemed necessary.

3. Minimum Qualifications

For the Town of Cheverly to consider your application, a Proposal must include the following minimum requirements, as identified in Section 15 of this Invitation for Bid:

- A. Contractor information that includes the name of the proposing Contractor, its principal business address, and the branch address that would serve the Town, the name of the proposer, a contact for questions by the Town, and the date that the Proposal was submitted.
- B. A Statement of Experience that summarizes the Contractor's qualifications, experience, and length of time in business. Experience in multiple and varying municipalities is preferred.
- C. A Statement of Resources that includes a list of the Contractor's available equipment, number of personnel who will be assigned to the project, and any other pertinent information.
- D. A Listing of Subcontractors that the Contractor proposes to use and relevant references.
- E. A Statement of Understanding of the scope of the work proposed with a list of deliverables and a Schedule based on the Scope of the Work that includes a timetable for deliverables.
- F. A Health and Safety Plan, and/or Task Hazard Analysis-Job Safety Analysis as it relates to fitness for duty, social distancing, personal hygiene, and your plans to keep your employees safe from potential coronavirus exposures.
- G. A Non-Collusive Bidding Certification (see p. 17 of this Invitation for Bid).
- H. A signed and notarized Affidavit (see pp. 18 – 21 of this Invitation for Bid).
- I. Proof of insurance and naming town as an additional insured.
- J. A price proposal in a separate, sealed inner envelope that includes:
 - i. A completed, signed Bid Form which indicates the lump sum bid and contain all necessary costs required for completion of the Work (Note: Any changes, erasures, modifications, or deletions in the bid form, or alternate Proposals not specified in the Bid Proposal may make the Proposal irregular and subject to rejection.).

- ii. A Bid Form for Unit Prices, Item Totals, Subtotals, and Aggregate Amount Bid, with all prices written clearly in the blank spaces for each item, with the amounts extended if a unit price bid and all amounts totaled (Note: In the event of any discrepancy between the written amounts and the numerals, the written amounts shall govern and will be considered as the price bid).

4. Services Required

The Town of Cheverly requires a Contractor to conduct the following services at Cheverly Town Park:

- Mobilize and mark utilities
- Install Sediment and Erosion Control, Tree Protection Devices, and a safety fence around the perimeter of work area. The sidewalk in front of the construction entrance must be kept clear.
- Remove existing fill where the raingarden is to be located to an acceptable site.
- Remove portions of a concrete slab as shown near the building. Any other sidewalk damaged during the construction process must be replaced by the contractor.
- Perform grading.
- Remove select trees.
- Construct a rain garden and landscaping.
- Install one (1) permanent interpretive sign in area specified by the Department of Public Works (DPW) Director on-site.
- Upon approval of the inspector, stabilize the site and complete the construction process.
- Demobilize

The site development plan set (which includes the sediment and erosion control, grading, and landscape plans and details) for this project are included as attachments to this Invitation for Bid.

5. Evaluation of Proposals

Proposals from all Contractors meeting the minimum qualifications detailed in this solicitation will be reviewed and evaluated. A review committee will evaluate the Proposals and submit the qualified candidates to the Town Council for the final determination. The Town, at its discretion, will determine whether to hold discussions with the Proposers who are in a “competitive range” or be awarded without discussion on the basis of the Proposal submitted. The following are the evaluation criteria:

- A. Proper Submission of Proposal. The Proposal must be submitted, received by the Town Administrator, or postmarked by the due date outlined in this Proposal. It is the responsibility of the firm to ensure proper and timely delivery of all required material. Late submissions will not be considered or evaluated.
- B. Comprehensiveness of Services Provided. The Town’s evaluation of the overall capabilities of the firm to meet the required service levels described in this Invitation for Bid.

- C. Related Experience. The company's related experience in providing services comparable to the Town's needs.
- D. Assigned Individuals. The credentials and experience of the person(s) assigned to project.
- E. Total Base Bid. The Contractor will complete the work for a lump sum Contract Price and is expected to provide all labor, materials, and equipment necessary for this project. All unit prices only apply to changes in the Work.
- F. Other Factors. Any other factors the Town believes would be in the best interest of the Town to consider, which were not previously described.

6. Amendment or Cancellation of the Invitation for Bid

The Town of Cheverly reserves the right to cancel, amend, modify or otherwise change this Invitation for Bid at any time if it deems to be in the best interest of the Town of Cheverly to do so.

7. Proposal Modifications

No additions or changes to any Proposals will be allowed after the application due date, unless such modification is specifically requested by the Town of Cheverly. The Town, at its option, may seek retraction and/or clarification by an applicant regarding any discrepancy or contradiction found during its review of applications.

8. Suspension and/or Debarment

Developers, Contractors, Companies or Subcontractors which are either suspended or debarred from performing work by the State of Maryland or within Prince George's County, Maryland, are prohibited from submitting an application under this Program. A Contractor that submits a Proposal that is found to have been suspended and/or debarred from conducting business within Prince George's County, Maryland, such developer will be reported to the State's Attorney General and Comptroller's Office.

9. Codes and Standards

Comply with all Federal, Maryland, Prince George's County, and Cheverly regulations, codes, and standards for construction on public and private property. No work is to occur between the hours 7:00 P.M. and 7:00 A.M Monday through Friday or anytime on Saturday, Sunday, or any legal holiday. All work, including emergencies, during these hours require written permission from the Town of Cheverly's Department of Public Works (DPW) director.

In performance of this project, or where there is an Americans with Disabilities Act component involved, the Contractor acknowledges that it is acting on behalf of the Town and warrants to the best of its

professional information, knowledge, and belief that its design, product, or completed infrastructure, will conform to, and comply with, the applicable provisions of the Americans with Disabilities Act.

10. Sequencing and Scheduling

Upon acceptance of the Proposal and execution of a contract, the Contractor agrees that the work shall be started within 6 (Six) working days of the date of the Notice to Proceed and that the total project will be completed within 30 (Thirty) working days. The Town shall facilitate the Contractor's work by providing reasonable access to all work areas. The Town shall facilitate the Contractor's services program by providing access to the project premises during both regular business hours and, as is necessary, at other times so that the Contractor can conduct both regular, scheduled maintenance and any special service(s).

11. General Conditions

The General Conditions set out below shall apply to formal bid solicitations for the Town of Cheverly. Bidders are responsible for informing themselves of these requirements prior to submission of bids. Failure to do so will be at bidder's own risk, and pleas of error, or ignorance shall not be honored. Bidders seeking information regarding the General Conditions set forth below should contact the Town of Cheverly's Town Administrator.

A. Receipt of Proposals

- a. If received after the time specified for Public Bid Opening, formal bids, amendment thereto, or requests for withdrawal of bids will not be considered.
- b. Properly marked bids received prior to the specified time of Public Bid Opening will be securely kept, unopened, by Town Administrator.
- c. No liability shall be attached to the Town or to its representative (s) for the premature opening of an improperly addressed or improperly identified bid.
- d. The checks/bid bonds of all except the lowest bidder will be returned/released within 30 days after the opening of bids. The check/bond will be returned/released to the lowest bidder when the contract is executed. In the event that the bids are rejected, or shelved for any reason, the check/bond will be returned/released to the low bidder within 30 days therefrom.
- e. Unless otherwise specified, all formal bids submitted shall be binding for 180 calendar days following the specified bid opening date, unless the bidder(s), upon request of the Town of Cheverly, agrees to an extension.

B. Bid Opening

- a. Although not necessary Bidders are encouraged to attend the Public Bid Opening and offer constructive suggestions as to format or ways in which the Town may realize greater savings. Bids are available for public inspection subsequent to the Public opening.
- b. Unless otherwise specified by the Town, all formal bids submitted shall be binding from Town acceptance for 180 days from the date of the bid opening.

C. Award or Rejection of Proposal

- a. Bids shall be awarded to the lowest and best responsive and responsible bidder. Bidders (if applicable) may restrict bids to consideration in aggregate by specifically stating same in writing on the bid form. Unless otherwise specified, the Town reserves the right: (1) to award in part or in whole, (2) to reject any or all bids, (3) to waive any information in the bids, and (4) to award so as to best serve the interest of the Town. The Town also reserves the right to reject the proposal of a bidder who has previously failed to execute properly or deliver on time contracts of a similar nature, or the proposal of a bidder who, upon investigation, shows they are not in a position to perform the contract.
- b. The bidder must supply all information required by the Invitation for Bid and Bid Forms. Failure to fill in all blanks may cause the bid to be disqualified.
- c. A written notice of award (acceptance of bid) shall be provided to the successful bidder within the specified acceptance period.

D. Quotation

- a. Bid prices must be net.
- b. Bid prices shall not include Federal, State, or Local taxes.
- c. When an error is made in computing the extension of total price(s), the unit price will govern. In the event of discrepancies between the prices quoted in the Proposal in words and those quoted in figures, the words shall control.
- d. Bidders must submit any and all exceptions to conditions of the specifications on the plans in writing at the time of the bid and as part of the submission.
- e. No oral interpretation shall be made by any Bidder and/or to any Bidder as to the meaning of any of the Contract Documents. Every request for interpretations shall be in writing to the Town.

E. Standards of Quality, "or Equal Clauses"

Any catalog, brand name, or manufacturer's reference used in an Invitation for Bid is descriptive, and shall be deemed to include "an equal." Bidders submitting equal substitutions will be considered provided the bidder submits a complete description of same and noting all variations from the specified brand in sufficient detail to support equal quality, equal capability, and equal durability to enable the Town to judge whether or not all requirements are met. If such information is not provided, like brands will be considered non-responsive. Otherwise, it shall be understood that the specified brand will be furnished.

F. Purchaser's Right of Rejection

The Town reserves the right to accept proposals by items or as a whole, or at its discretion, reject any and all proposals and readvertise. The Town of Cheverly reserves the right to increase or decrease all quantities. The Town also reserves the right to reject any and all proposals which comply with these specifications, or to accept a higher bid which complies, provided that, in the judgment of the Town Administrator, the items offered under the higher bid have additional values or functions which justify the difference in price.

G. Delivery and installation

Delivery of services must conform to the instructions in the bid specifications and/or in the applicable notice of award or purchase order(s).

H. Billing and Payment

Bills must be submitted in duplicate. Original and one copy shall be forwarded to the Town of Cheverly. Payment will be made only upon final acceptance by the Town.

I. Reservations and Annulments

- a. The right is reserved for the Town to reject bids for any and all items, and/or waive technical defects if in its judgment the interest of the Town is better served.
- b. The Town also reserves the right to annul any contract, if in its opinion there shall be a failure, or anytime, to perform faithfully any of its stipulations, or in case of any willful attempt to impose upon the Town materials, products and/or workmanship inferior to that required by the contract, and action taken in pursuance of this latter stipulation shall not affect or impair any rights or claims of the Town to damages for the breach of any covenant of the contract by the contractor.
- c. Should the contractor be prevented from furnishing any item or items, or from completing the required work included in this contract by reason of such failures caused by circumstances beyond his control, including but not limited to, an Act of God, war, flood, governmental action, and inability to obtain transportation, the Town reserves the right to withdraw such items or required work from the operation of this contract without incurring further liabilities on the part of the Town thereby.

J. Compliance with Specifications

The Contractor shall abide and comply with the true intent of the specifications and not take advantage of any unintentional error or omission, but shall fully complete every part as the true intent and meaning of the specifications, as decided by the Town's Administrator and as described hereinafter. Contractor will notify the town immediately if there is a discrepancy in the plans or specifications.

K. Responsibility for Supplies Tendered

The contractor shall be responsible for the materials or supplies covered by this contract until they are delivered at the designated point, and the Contractor shall bear all risk on rejected materials or supplied after notice of rejection. Rejected materials or supplies must be removed by and at the expense of the contractor promptly after notification of rejection. Upon failure to do so within ten (10) calendar days after date of written notification, the Town may return the rejected materials or supplies to the contractor at the contractor's risk and expense.

L. Inspection

Inspection and acceptance of all procurements will be made after delivery at the destination herein specified unless otherwise stated. Final inspection and acceptance or rejection of the procurements will be made as promptly as practicable, but failure to inspect and or reject procurements shall not impose liability on the Town for such procurements that are not in accordance with the specifications.

M. Bidders List

In an attempt to keep the prospective Bidders List current, Bidders are asked to respond to all bid specifications. If the response is a “no bid” the bidder is requested to explain his reasons for not bidding. Failure to respond to three consecutive Invitations for Bid may result in the deletion of the Bidder from the Bidders List.

N. Conflict of Interest

No employee of the Town shall be entitled to any share or part of this contract or to any benefit that may arise thereafter.

12. Legal Terms

It is the policy of the Town of Cheverly that all legal disputes are heard in a court of law in Prince George’s County, Maryland, and that each party is responsible to pay for the cost of their own legal fees. The Contractor must irrevocably and unconditionally consent to the exclusive jurisdiction of the courts in Prince George’s County, Maryland **The Town of Cheverly will not agree to terms that are not consistent with this policy.**

13. Final Comments

The Town of Cheverly reserves the right to reject any and all Proposals, cancel all or part of this Invitation for Bid, and waive any minor irregularities and to request additional information from proposing firms. By requesting Proposals, the Town of Cheverly is in no way required to award a contract or pay expenses of the proposing firms in connection with the preparation of the Proposal.

The Town’s decision to award a contract will be based on many factors including, but not limited to, service, cost, Proposal requirements met, etc. No single factor, such as cost, will determine the final decision to award.

Contractors are responsible for all costs and expenses incurred in the preparation of a Proposal to respond to this solicitation. The Contractor submitting a Proposal further certifies and warrants that all payments of fees charged by any sub-Contractors pursuant to that contract are the sole responsibility of the Contractor.

The successful proposer will be required to secure and maintain appropriate insurance coverage. Proof of such coverage, in the form of a broker-issued certificate, must be received by the Town prior to the beginning contract date.

The Town truly appreciates the Chesapeake Bay Trust Prince George’s Stewardship Program for providing funding to the Town of Cheverly for this project.

End of Invitation for Bid

PROPOSAL DOCUMENTS

In order to qualify for this Project, Contractors must submit all information requested in the following pages.

CONTRACTOR INFORMATION

Proposals must adhere to the format of these Proposal forms and content of this Invitation for Bid. Proposals will not be evaluated unless all parts of the Proposal form are submitted in a complete package. The information set forth is the minimum required in order to qualify for consideration.

Company Name _____

Headquarter Address _____

City, State, Zip _____

Local Branch
(if applicable) _____

DUNS and/or Federal
Tax ID Number _____

Has the company ever operated under another name? _____

If yes, what name? _____

List who is authorized to execute contracts

Primary
Contact Person _____

Phone Number _____

Email Address _____

Proposal
Submittal Date _____

STATEMENT OF EXPERIENCE

Company Name _____

Year Founded _____

Project Manager Name _____ Years of Experience _____

Project Manager Phone _____ Email _____

Types of Work Normally _____

Performed _____

Do you have equipment and staff available to start within 10 days of Notice to Proceed? _____

Has the company ever worked for the Town of Cheverly? If yes, when and what type? _____

Projects of this type previously completed

1. _____
_____ Amount: \$ _____

Reference (name, phone email): _____

2. _____
_____ Amount: \$ _____

Reference (name, phone email): _____

3. _____
_____ Amount: \$ _____

Reference (name, phone email): _____

STATEMENT OF AVAILABLE RESOURCES

Company Name _____

Relevant
Equipment _____

No. Persons Currently Employed _____ No. Persons Available for Project: _____

Other Pertinent Information

LIST OF SUBCONTRACTORS

Contractors shall identify all subcontractors which will be performing twenty-five percent (25%) or more by value of the work. Subcontractor information shall be submitted as part of the bid form.

Subcontractor Name, Address and Contact Person/email	Work to be Performed	Value of Work to be Performed	References
			1. 2. 3.

STATEMENT OF UNDERSTANDING AND PROJECT SCHEDULE

Statement of Understanding

To demonstrate your comprehension of the project, please summarize your understanding of what the work is and what the work will entail. This should include, but not be limited to, your understanding of the purpose and scope of the project, critical success factors and potential problems related to the project and your understanding of the deliverables.

Project Schedule

Provide a project plan that indicates how you will complete the required deliverables and services and addresses the following:

- Number of staff needed
- Tasks to be performed (within phase as applicable)
- Number of hours each task will require
- Deliverables created by each task
- Dates by which each task will be completed (dates should be indicated in terms of elapsed time from project inception)
- Resources assigned to each task

Indicate the proposed schedule in number of calendar days from Notice to Proceed or from Proposed Start of Work. Final Completion shall include completion of all punch list items, final cleanup, and demobilization, and shall occur no later than May 14, 2021. This statement of understanding and project schedule should be limited to no more than three pages.

BIDDERS QUESTIONNAIRE

THE APPROPRIATE SECTION OF THIS PAGE MUST BE SIGNED BY ALL BIDDERS

NON-COLLUSIVE BIDDING CERTIFICATION

By submission of this bid, each bidder and each person signing on behalf of any bidder certified, and in the case of a joint bid, each party thereto certifies as to its own organizations, under penalty of perjury, that to the best of their knowledge and belief:

1. The prices in this bid have been arrived at independently, without collusion, consultation, communication or agreement, for the purpose of restricting competition, as to any matter relating to such prices with any other bidder, or with any competitor;
2. Unless otherwise required by law, the prices which have been quoted in this bid have not been knowingly disclosed by the bidder prior to opening, directly, or indirectly to any other bidder or to any competitor; and
3. No attempt has been made or will be made by the bidder to induce any other person, partnership or corporation to submit or not to submit a bid for the purpose of restricting competition.

I hereby affirm under the penalties of perjury that the foregoing statement is true.

Authorized Signature _____

Name and Title of Signatory _____

SEAL:

(If corporation)

IF A CORPORATION

The following is a certified copy of resolution authorizing the execution of this certificate by the signature of this bid or proposal on behalf of the corporate bidder, resolved that _____ be authorized to sign and submit the bid or proposal of this corporation for the project on items described, herein, in the Notice to Bidders, and to include in such bid or proposal the Certificate as to Non-Collusion required by the Town of Cheverly, Maryland as the act and deed or such corporation, and for any inaccuracies of misstatement in such certificate this corporate bidder shall be liable under the penalties of perjury.

The foregoing is a true and correct copy of the resolution by _____ Corporation at a meeting of its Board of Directors held on the _____ day of _____, 20____.

Secretary Seal of Corporation

AFFIDAVITS

Name and Address of Bidder: _____

The above named Bidder affirms and declares:

1. That said Bidder is of lawful age and the only one interested in this bid; and that no person, firm or corporation other than hereinabove named has any interest in this bid, or in the contract proposed to be entered into.
2. That this bid is made without any understanding, agreement, or connection with any other person, firm, or corporation making a bid for the same material, supplies, or equipment, and is in all respects fair and without collusion or fraud.
3. The said bidder has carefully examined the procurement documents that from said Bidder’s own investigations, said Bidder has satisfied itself as to the nature and intent of the procurement, its character, quality and quantity.
4. Upon acceptance of this proposal for said procurement the undersigned does or do bind the person or persons to enter into written contract with the owner as specified in the “Instructions for Bidders”.
5. In default of the performance of any of the conditions required in making this bid, the undersigned agrees that the certified check/bid bond which is herewith deposited with the Owner shall be retained by the Owner as liquidated damages for such default or fraud, otherwise the check/bond will be returned to the successful bidder as noted in the “Instructions for Bidders”. **Note: NO CHECK/BOND IS REQUIRED FOR THIS BID.**

Legal name of person, firm or corporation making bid:

Authorized Signature _____

Name and Title of Signatory _____

NOTES

1. Where a bidder is a firm, the bid must be signed in the name of the firm by a member of the firm, who must sign that the member’s own name immediately thereunder, as A.B. Company, by C.D. Partner.
2. Where a bidder is a corporation, the bid must be signed in the name of the corporation by some duly authorized officer or agent thereof having knowledge of the matters stated in the bid, and such officer or agent shall also subscribe said person’s own name, as: A.B. Company, by C.D., President, and the seal of the corporation must be affixed.
3. The bid must be sworn to by the person signed it, in one of the following forms:

AFFIDAVITS (continued)

(Form of Affidavit where Bidder is an Individual)

STATE OF.....)

COUNTY OF.....)

_____ being duly sworn says:

I am the person described in and who executed the foregoing bid and the several matters therein stated are in all respects true.

Signature of person who signed the bid

Subscribed and sworn to before me: this _____ day of _____, 20 ____.

(Notary Public)

COUNTY OF: _____

AFFIDAVITS (Continued)

(Form of Affidavit where Bidder is a Partnership)

STATE OF.....)

COUNTY OF.....)

_____ being duly sworn says: I am a member of
_____ the firm described in and which executed the foregoing bid. I
subscribed the name of the firm thereto on behalf of the firm, and the several matters therein stated are in all
respects true.

Signature of person who signed the bid

Subscribed and sworn to before me: this _____ day of _____, 20 ____.

(Notary Public)

COUNTY OF: _____

AFFIDAVITS (Continued)

(Form of Affidavit where Bidder is a Corporation)

STATE OF.....)

COUNTY OF.....)

_____ being duly sworn says:

I am _____ of _____
Corporation, the above named corporation whose name is subscribed to and which executed the foregoing bid.
I reside at

_____.

I have knowledge of the several matters therein stated, and they are in all respects true.

Signature of person who signed the bid

Subscribed and sworn to before me: this _____ day of _____, 20 ____.

(Notary Public)

COUNTY OF: _____

PROOF OF INSURANCE

Submit a certificate of Insurance from your insurance agent or insurance company that evidences your company's ability to obtain the following minimum insurance requirements. Attach and label as Exhibit 1.

1. Workers Compensation

Coverage A: Statutory

Coverage B: \$500,000 Bodily Injury by Accident for Each Accident
\$500,000 Bodily Injury by Disease for Policy Limit
\$500,000 Bodily Injury by Disease for Each Employee

2. Commercial Auto Liability Insurance for All Owners, Non-Owned and Hired Autos.

\$1,000,000 Combined Single Limit for Bodily Injury and Property Damage Liability

3. Commercial General Liability and the Town of Cheverly named as an additional Insured.

\$2,000,000 General Aggregate

\$1,000,000 Products/Completed Operations Aggregate

\$1,000,000 Personal and Advertising Injury Limit

\$1,000,000 Combined Single Limit Bodily Injury & Property Damage – Each Occurrence

\$50,000 Fire Legal Limit

\$5,000 Medical Payment

4. Umbrella/Access Liability Insurance

\$2,000,000 Each Occurrence

SPECIAL TERMS AND CONDITIONS

In order for you to address the risks associated with the COVID-19 Pandemic and perform in accordance with the contractual requirements to take all necessary precautions for the health and safety of your employees and other persons, including the responsibility to report any unsafe work conditions, the Town of Cheverly requests that you provide the Town's project or program manager with the following:

1. Health and Safety Plan, and/or Task Hazard Analysis-Job Safety Analysis for the Town of Cheverly's review as it relates to fitness for duty, social distancing, personal hygiene, and your plans to keep your employees safe from potential coronavirus exposures. At a minimum, include emergency contacts for contractors/subcontractors, contact info for nearby urgent care facilities, and a job site emergency plan checklist and/or a daily safety inspection checklist.
2. Provide immediate notice after becoming aware of any of your employees who i) have been or are currently working under a Town of Cheverly contract, ii) have been in close contact (within about 6 feet) with any Town of Cheverly employee, and iii) show any of the following conditions:
 - a. Self-quarantines because your employee lives with, is intimate with, has come in close contact with, or cares for someone who has symptomatic COVID-19;
 - b. Shows signs of the coronavirus, including but not limited to, fever, dry cough, tiredness, or difficulty breathing; or
 - c. tests positive for coronavirus
3. Immediate notice of any agency or regulatory inspection or citation received while working on a Town of Cheverly project or assignment, related to implementation of government guidelines or requirements for prevention of COVID-19.

You are required to provide the above information unless otherwise notified. The Town of Cheverly reserves the right to request additional information based on changes with government regulations, the prime contract, industry standards and as appropriate to help protect the personnel at the project site.

Finally, as part of the Town of Cheverly's efforts to protect personnel at the project site, please distribute the COVID-19 Safety Flyer provided as Attachment B to your employees.

PROPOSAL FORM PRICE AUTHORIZATION

By signing this Proposal form, such action certifies that the Contractor has personal knowledge of the following:

1. That said Contractor and Subcontractors are legally authorized to do business in the State of Maryland;
2. That said Contractor represents that they have read and understand the bidding documents and specifications;
3. That said Contractor has visited the site, familiarized themselves with the local conditions under which the Work is to be performed, compared the sites with the drawings and specifications, satisfied themselves of the conditions of delivery, handling and storage of materials, and all other matters that may be incidental to the work, including subsurface conditions before submitting their proposal.
4. That said Contractor carefully prepared the Proposal forms and has checked the same in detail before submitting said Proposal;
5. That said Contractor, or the agents, officers, or employees thereof, have not, either directly or indirectly, entered into any agreement, participated in any collusion, or otherwise taken any action in restraint of free competitive Proposing in connection with this Proposal;
6. That all of said work will be performed at the Contractor's own proper cost and expense. The Contractor will furnish all necessary materials, labor, tools, machinery, apparatus and other means of construction in the manner provided in the applicable specifications, and at the time stated in the contract;
7. That the undersigned, being a reputable Contractor and having submitted the necessary pre-qualification forms, hereby submits in good faith and in full accordance with all specifications, attached or integral, his/her Proposal:

Name of Contractor _____

Authorized Signature _____

Name and Title of Signatory _____

Date _____

Type of Organization (circle One): Corporation Partnership Proprietorship

SEAL:

(If corporation)

BID FORM FOR UNIT PRICES, ITEM TOTALS, SUBTOTALS, AND TOTAL BASE BID

If you believe there are any changes that should be made or other supplies or costs not mentioned that should be given consideration by the Town, please modify your bid form for unit prices accordingly.

BASE BID ALTERNATE "1": RAIN GARDEN ONLY

BID PW-IFB-FY2021-004: Cheverly Town Park Rain Garden Installation					
Contractor:					
No.	Description	Unit of Measure	Quantity	Unit Bid Price	Total Bid Amount
A General					
1	Mobilization	Each			
2	Silt fence	Linear Ft			
3	Temporary tree protection devise	Linear Ft			
4	Temporary safety fence	Linear Ft			
5	Temporary soil erosion control matting	Linear Ft			
6	Installation of interpretive sign	Each			
Sub-Total					
B Earthwork					
7	Rain garden excavation & backfill	Cubic Yds			
8	Trench excavation	Cubic Yds			
9	Gravel for trench undercut	Cubic Yds			
10	Spoil	Cubic Yds			
Sub-Total					
C Paving					
11	Site prep – concrete slab removal	Linear Ft			
Sub-Total					
D Green Infrastructure/Stormwater Management					
12	Sand	Cubic Yds			
13	Pea gravel				
14	#57 stone, double washed				
15	Bioretention soil media	Cubic Yds			
16	Propex Pyramat 25 turf reinforced mat	Roll			
Sub-Total					

E	Landscaping				
17	Plantings, native	Square Ft			
18	Mulch	Cubic Yds			
19	Trees, native, 2" CAL, 4+' HT	Each			
20	Sodding	Cubic Yds			
21	Tree removal	Each			
	Sub-Total				
TOTAL BASE BID ALTERNATE "1"					\$

BASE BID ALTERNATIVE "1" (WORDS) _____

BID ALTERNATE "2": ADDITION OF NATIVE GRASSES SLOPE STABILIZATION

1	Native grasses slope stabilization				
	Sub-Total				
TOTAL BASE BID ALTERNATE "2"					\$

BASE BID ALTERNATIVE "2" (WORDS) _____

BID ALTERNATE "3": ADDITION OF NATIVE WILDFLOWER & GRASS MIX*

1	Native wildflower & grass mix				
	Sub-Total				
TOTAL BASE BID ALTERNATE "3"					\$

BASE BID ALTERNATIVE "2" (WORDS) _____

**Note: The Town of Cheverly may elect to change out the Ernst Conservation Seed Mix as specified on the landscape plan with a different variety of similar cost. Please use this mix for pricing purposes unless otherwise notified.*

ATTACHMENT A:
SITE PLAN SET

SHEET INDEX

- C-0.00 COVER SHEET
- C-1.01 DRAINAGE AREA PLAN
- C-1.02 SITE AND GRADING PLAN
- C-1.03 EROSION AND SEDIMENT CONTROL PLAN
- C-1.04 DETAILS PLAN
- C-1.05 DETAILS PLAN
- C-1.06 DETAILS PLAN
- L-1.01 LANDSCAPE PLAN
- L-1.02 LANDSCAPE DETAILS

SEQUENCE OF CONSTRUCTION

DAY 1 HOLD PRECONSTRUCTION MEETING WITH CHEVERLY DEPARTMENT OF PUBLIC WORKS, (CDPW&T) AND ALL INVOLVED PARTIES ONSITE. NOTE: PRIOR TO ANY CLEARING AND GRUBBING, THE LIMITS OF DISTURBANCE (LOD) AND TREES TO BE REMOVED (1) MUST BE CLEARLY MARKED.

DAY 2 CONTACT MISS UTILITY AND MARK ALL UTILITIES. CONTACT CDPW&T 24 HOURS PRIOR TO THE START OF CONSTRUCTION.

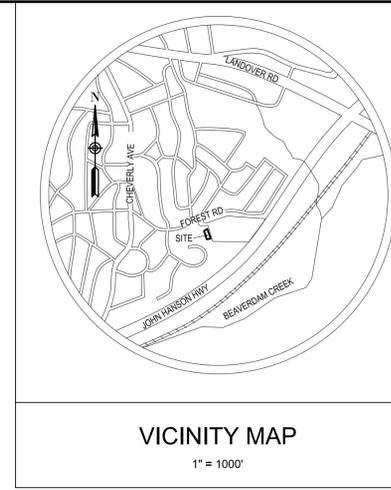
DAY 3-5 INSTALL SAFETY FENCE. INSTALL PERIMETER CONTROLS INCLUDING SILT FENCE AND TREE PROTECTION FENCE. INSTALL STABILIZED CONSTRUCTION ENTRANCE (SCE). MOVE EXISTING WOODEN RAMP TO INDICATED TEMPORARY HANDICAP ACCESS RAMP. INSTALL CONES AND SIGNAGE TO MAINTAIN HC ACCESS TO PAVILION AREA. CONES MUST REMAIN IN PLACE UNLESS VEHICLES ARE ACTIVELY ENTERING THE SITE.

DAY 6-14 EXCAVATE TOE OF SLOPE TRENCH FOR PYRAMAT INSTALLATION. GRADE AN EXCAVATE RAIN GARDEN AND SURROUNDING AREA. EXCAVATE CREST OF SLOPE TRENCH FOR PYROMAT INSTALLATION. INSTALL PYRAMAT ALONG SLOPE BEING CAREFUL TO PROTECT TREES. INSTALL RAIN GARDEN GRAVEL, SAND, AND MEDIA. REPAIR ANY DAMAGE TO SIDEWALK, CURB OR PARKING LOT. INSTALL LANDSCAPE PLANTINGS. SOD INDICATED AREAS. TOPSOIL AND SEED AND STABILIZE ALL OTHER DISTURBED AREAS WITH PERMANENT SEEDING (PS).

DAY 15-16 AFTER ALL AREAS ARE STABILIZED, AND AFTER APPROVAL OF INSPECTOR, REMOVE ALL SEDIMENT CONTROL DEVICES. REMOVE SAFETY FENCE. REMOVE SIDEWALK CLOSED SIGN AND RELOCATE WOODEN HC RAMP BACK TO ORIGINAL LOCATION. DEMOBILIZE.

Erosion and Sediment Control General Notes

- A. The developer is responsible for the acquisition of all required easements, right and/or rights-of-way pursuant to the discharge from the erosion and sediment control practices, stormwater management practices and the discharge of stormwater onto or across and grading or other work to be performed on adjacent or downstream properties affected by this plan.
- B. Following initial soil disturbance or redistribution, permanent or temporary stabilization shall be completed within: a) three (3) calendar days as to 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) seven (7) calendar days for all other disturbed or graded areas on the project site. The in-place sediment control measures will be maintained on a continuing basis until the site is permanently stabilized and all permit requirements are met.
- C. The developer or representative shall request that the Cheverly Department of Public Works (DPW) approve work completed in accordance with the approved erosion and sediment control plan, the grading or building permit and shall obtain written inspection approvals by the Cheverly DPW at the following stages in the development of the site:
- (1) Prior to the start of earth disturbance;
 - (2) Upon completion of installation of tree protection devices, followed by the installation of perimeter erosion and sediment controls, prior to proceeding with any other earth disturbance or grading. Other building or grading inspection approvals may not be authorized until initial approval by the Inspector is made;
 - (3) Upon completion of stripping, the stockpiling of topsoil, the construction of temporary sediment and erosion control facilities, disposal of all waste material and preparation of the ground;
 - (4) Upon completion of rough grading, but prior to placing topsoil, permanent drainage or other site development improvements and ground covers;
 - (5) Prior to the start of another phase of construction or opening of another grading unit;
 - (6) Prior to the removal of sediment control practices; and;
 - (7) Upon completion of final grading, reforestation, permanent drainage and erosion control facilities including established ground covers and planting, and all other work of the building permits.
- Reference 29 c. in all sequence of construction.
- D. Predominant soil types per SCD soil survey: RUB, RUSSETT-CHRISTIANA-URBAN LAND COMPLEX, 0-5 PERCENT SLOPES, K FACTOR -49, HYDROLOGIC GROUP D



NOTES:

1. TOPOGRAPHY FROM SURVEY PROVIDED BY CAPITOL DEVELOPMENT DESIGN, INC. DATED: DECEMBER 2019. HORIZONTAL DATUM: MARYLAND STATE PLANE NAD 83. VERTICAL DATUM: NAVD 88.
2. LIMIT OF DISTURBANCE: 4670 SF
3. CUT: 50 CY
4. FILL: 1 CY
5. ALL SPOIL SHALL BE DISPOSED OF AT SANITARY LANDFILL OR OTHER ACCEPTABLE LOCATION
6. PRODUCT TO BE USED FOR THE PERMANENT SOIL STABILIZATION MATTING SLOPE APPLICATION WILL BE PROPEX PYRAMAT 25 TURF REINFORCED MATTING. THIS PRODUCT IS A THREE-DIMENSIONAL, LOFTY, WOVEN POLYPROPYLENE GEOTEXTILE THAT IS AVAILABLE IN GREEN WHICH IS SPECIFICALLY DESIGNED FOR EROSION CONTROL APPLICATIONS ON STEEP SLOPES AND VEGETATED WATERWAYS.

ENGINEERS & DRAINAGE CERTIFICATIONS

I HEREBY CERTIFY THAT THIS PLAN CONFORMS TO THE REQUIREMENTS OF SUBTITLE 32. DIVISION 2 OF THE CODE OF PRINCE GEORGE'S COUNTY WATER RESOURCES PROTECTION AND GRADING CODE; AND THAT I OR MY STAFF HAVE INSPECTED THIS SITE AND THAT DRAINAGE FLOWS FROM UPHILL PROPERTIES ONTO THIS SITE, AND FROM THIS SITE ONTO DOWNHILL PROPERTIES, HAVE BEEN ADDRESSED IN SUBSTANTIAL ACCORDANCE WITH APPLICABLE CODES.

SIGNATURE: *Neil Weinstein* DATE: 01/27/2021

NAME: NEIL WEINSTEIN MD. REG. NO.: 28443

UTILITY CERTIFICATION

I HEREBY CERTIFY, TO THE BEST OF MY PROFESSIONAL KNOWLEDGE, INFORMATION, AND BELIEF, THAT THE EXISTING AND/OR PROPOSED UNDERGROUND UTILITY INFORMATION SHOWN HEREON HAS BEEN CORRECTLY DUPLICATED FROM UTILITY COMPANY RECORDS. FURTHER, THAT THIS PROJECT HAS BEEN CAREFULLY COORDINATED WITH EACH INVOLVED UTILITY COMPANY AND ALL AVAILABLE UNDERGROUND UTILITY INFORMATION RELATIVE TO THIS PLAN HAS BEEN SOLICITED FROM THEM.

SIGNATURE ENGINEER-IN-CHARGE: *Neil Weinstein* DATE: 01/27/2021

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.: 28443

Expiration Date: 12/31/22

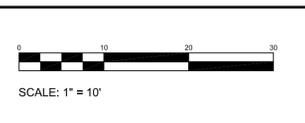


Neil Weinstein

LOW IMPACT DEVELOPMENT CENTER

5000 Sunnyside Avenue, Suite 100
Beltsville, MD 20705

Tel. (301) 982-5559
Fax. (301) 982-9305
www.lowimpactdevelopment.org



MISS UTILITY NOTE

INFORMATION CONCERNING EXISTING UNDERGROUND UTILITIES WAS OBTAINED FROM AVAILABLE RECORDS. THE CONTRACTOR MUST DETERMINE THE EXACT LOCATION AND ELEVATION OF ALL EXISTING UTILITIES AND UTILITY CROSSINGS BY DIGGING TEST PITS BY HAND, WELL IN ADVANCE OF THE START OF EXCAVATION. CONTACT "MISS UTILITY" AT 1-800-257-7777, 48 HOURS PRIOR TO THE START OF EXCAVATION. IF CLEARANCES ARE LESS THAN SHOWN ON THIS PLAN OR TWELVE (12) INCHES, WHICHEVER IS LESS, CONTACT THE ENGINEER AND THE UTILITY COMPANY BEFORE PROCEEDING WITH CONSTRUCTION. CLEARANCES LESS THAN NOTED MAY REQUIRE REVISIONS TO THIS PLAN.

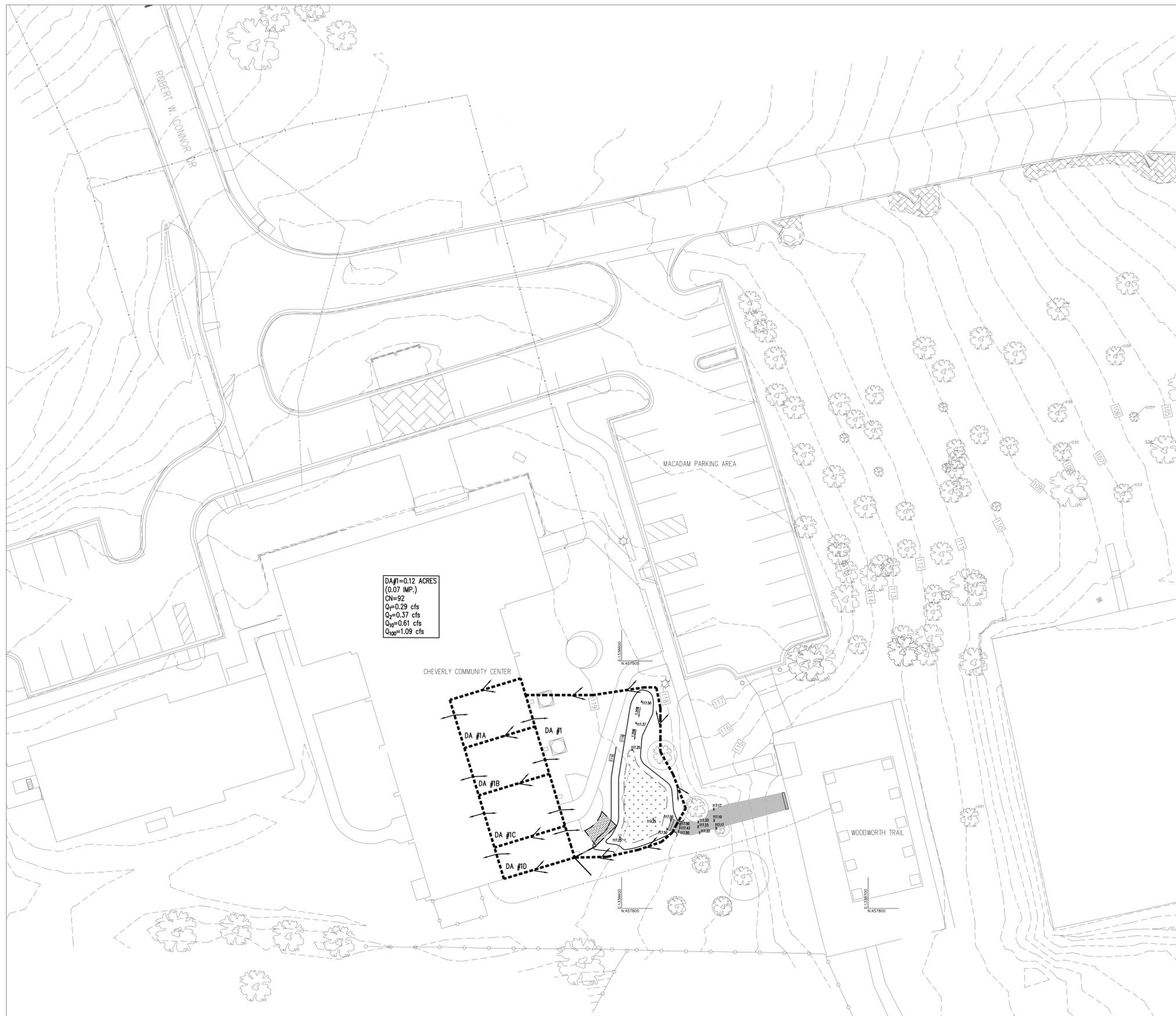
REV. NO.	DATE	REVISIONS PRIOR TO APPROVAL

COVER SHEET

CHEVERLY RAIN GARDEN

6401 FOREST RD.
CHEVERLY, MD 20785
PRINCE GEORGE'S COUNTY, MARYLAND

ISSUE:	DATE: 01/27/21
SCALE: 1"=10'	SHEET 1 OF 9
FILE NO:	C-0.00
DRAFTED: SE	
CHECKED:	



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.: 28443
Expiration Date: 12/31/22

STATE OF MARYLAND
28443
ALAN WENSHIN
PROFESSIONAL ENGINEER

LEGEND:

- EX. PAVEMENT EDGE
- EX. BUILDING
- EX. UNDERGROUND ELECTRIC
- EX. UNDERGROUND WATER
- EX. TREE
- EX. CONTOUR
- PROPOSED CONTOUR
- PROPOSED BIORETENTION MEDIA
- PYRAMAT SOIL STABILIZATION MATTING
- PROPOSED STORM DRAIN PIPE
- DRAINAGE DIVIDE
- DRAINAGE DIVIDE FLOW ARROWS

DRAINAGE AREA TABLE

DRAINAGE AREA	TOTAL AREA (acres)	IMP. AREA (acres)	OWNERSHIP	TREATMENT	CURVE NUMBER	TIME OF CONCENTRATION (hr)
DA #1	0.014	0.014	PUBLIC	RAIN GARDEN #1	92	0.1
DA #1A	0.014	0.014	PUBLIC	RAIN GARDEN #1	98	0.1
DA #1B	0.015	0.015	PUBLIC	RAIN GARDEN #1	98	0.1
DA #1C	0.009	0.009	PUBLIC	RAIN GARDEN #1	98	0.1
DA #1D	0.072	0.023	PUBLIC	RAIN GARDEN #1	98	0.1

NOTES:

- TOPOGRAPHY FROM SURVEY PROVIDED BY CAPITOL DEVELOPMENT DESIGN, INC. DATED: DECEMBER 2019. HORIZONTAL DATUM: MARYLAND STATE PLANE NAD 83. VERTICAL DATUM: NAVD 88.



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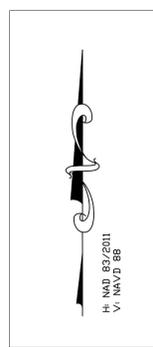
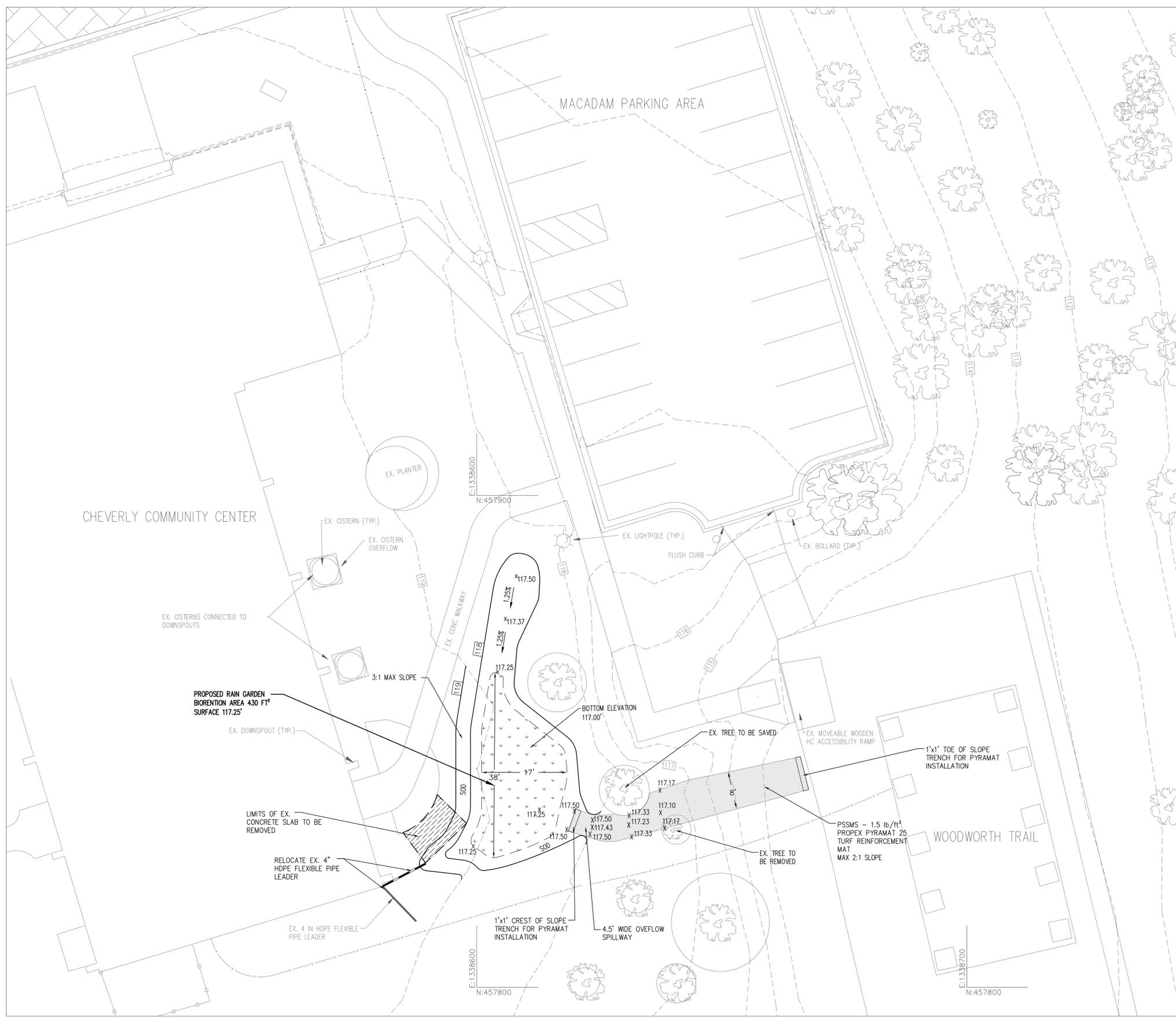
REV. NO.	DATE	REVISIONS PRIOR TO APPROVAL

DRAINAGE AREA PLAN

CHEVERLY RAIN GARDEN

6401 FOREST RD.
CHEVERLY, MD 20785
PRINCE GEORGE'S COUNTY, MARYLAND

ISSUE:	DATE: 01/27/21
SCALE: 1"= 20'	SHEET 2 OF 9
FILE NO:	C-1.01
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CHECKED:	



LEGEND:

	EX. PAVEMENT EDGE
	EX. BUILDING
	EX. UNDERGROUND ELECTRIC
	EX. UNDERGROUND WATER
	EX. TREE
	EX. CONTOUR
	PROPOSED CONTOUR
	PROPOSED BIORETENTION MEDIA
	PYRAMAT SOIL STABILIZATION MATTING
	PROPOSED STORM DRAIN PIPE

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.: 28443

Expiration Date: 12/31/22



Alan Weinstock

NOTES:

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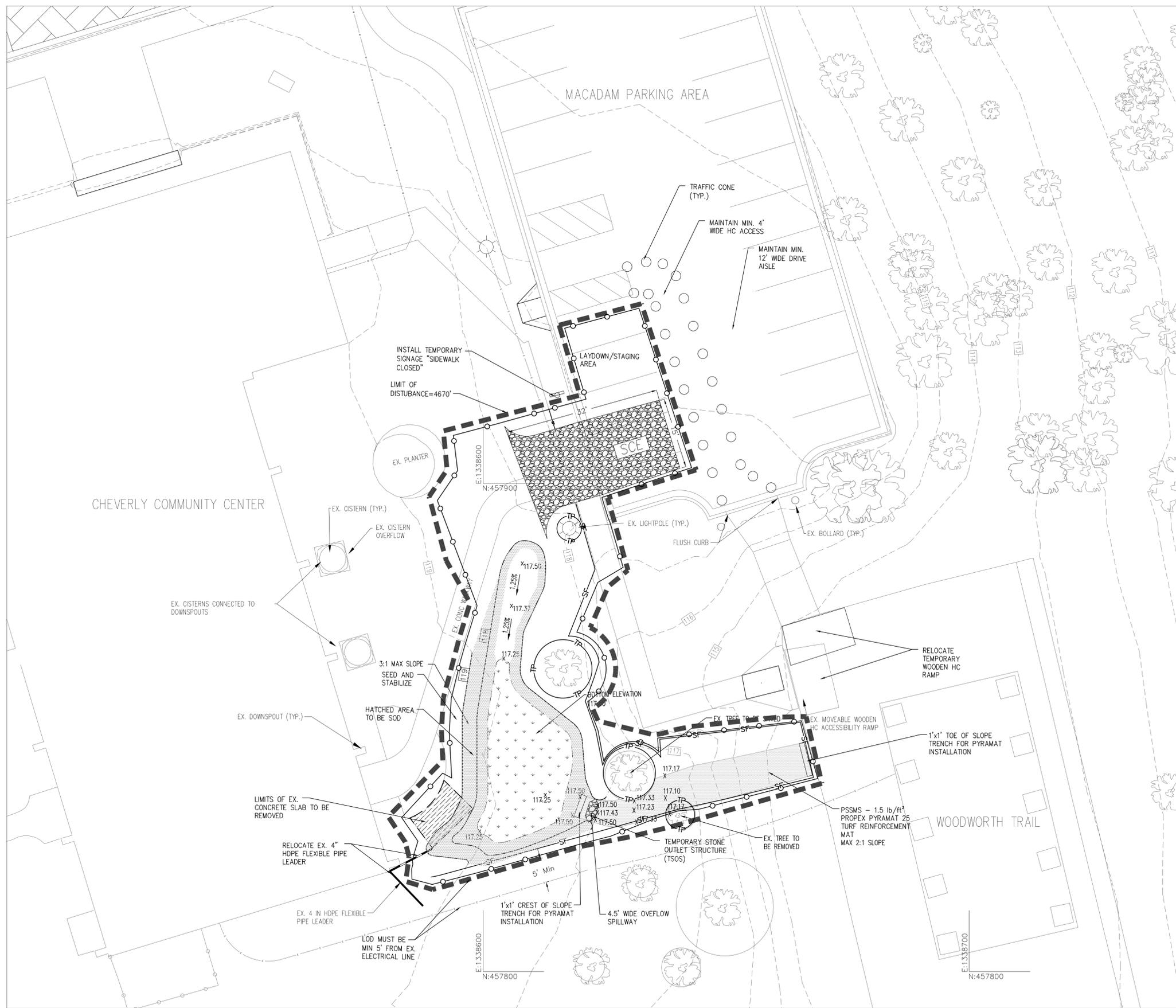
REV. NO.	DATE	REVISIONS PRIOR TO APPROVAL

SITE AND GRADING PLAN

CHEVERLY RAIN GARDEN

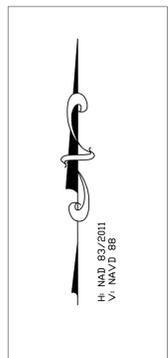
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ISSUE:	DATE: 01/27/21
SCALE: 1" = 10'	SHEET 3 OF 9
FILE NO:	C-1.02
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CHECKED:	



LEGEND:

	EX. PAVEMENT EDGE
	EX. BUILDING
	EX. UNDERGROUND ELECTRIC
	EX. UNDERGROUND WATER
	EX. TREE
	EX. CONTOUR
	PROPOSED CONTOUR
	PROPOSED BIORETENTION MEDIA
	PYRAMAT SOIL STABILIZATION MATTING
	PROPOSED STORM DRAIN PIPE
	SAFETY FENCE
	SILT FENCE
	LIMITS OF DISTURBANCE (LOD)
	STABILIZED CONSTRUCTION ENTRANCE
	TREE PROTECTION
	TEMPORARY STONE OUTLET STRUCTURE (TSOS)



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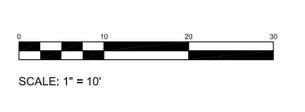
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Expiration Date: 12/31/22



Neil Weinstein

NOTES:
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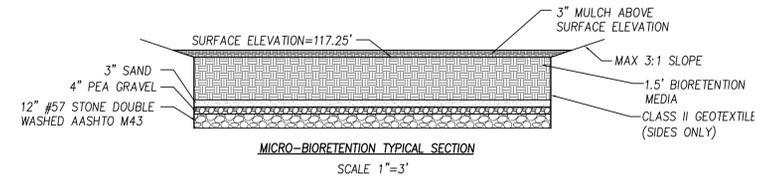
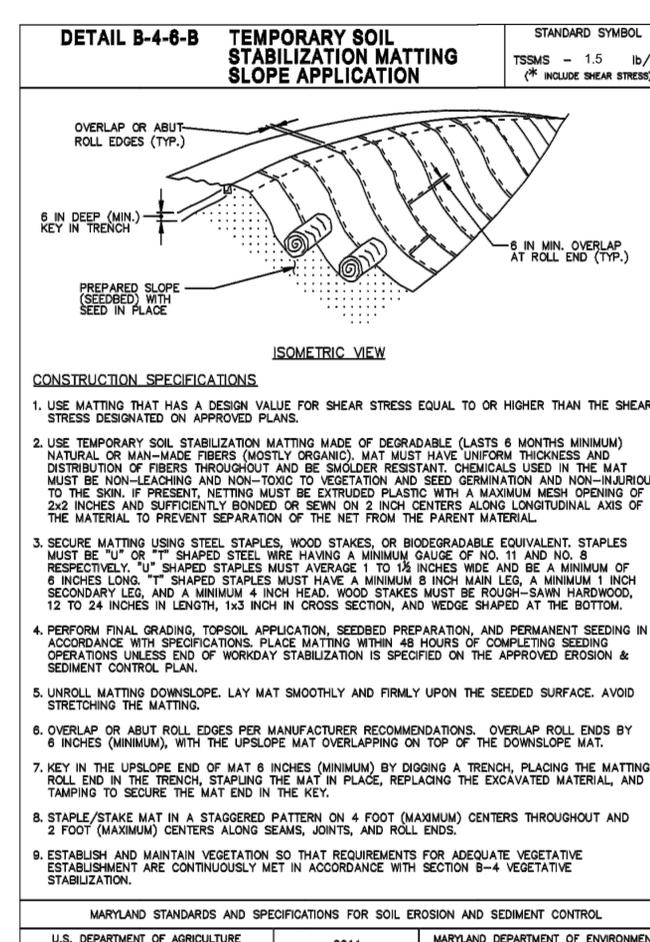
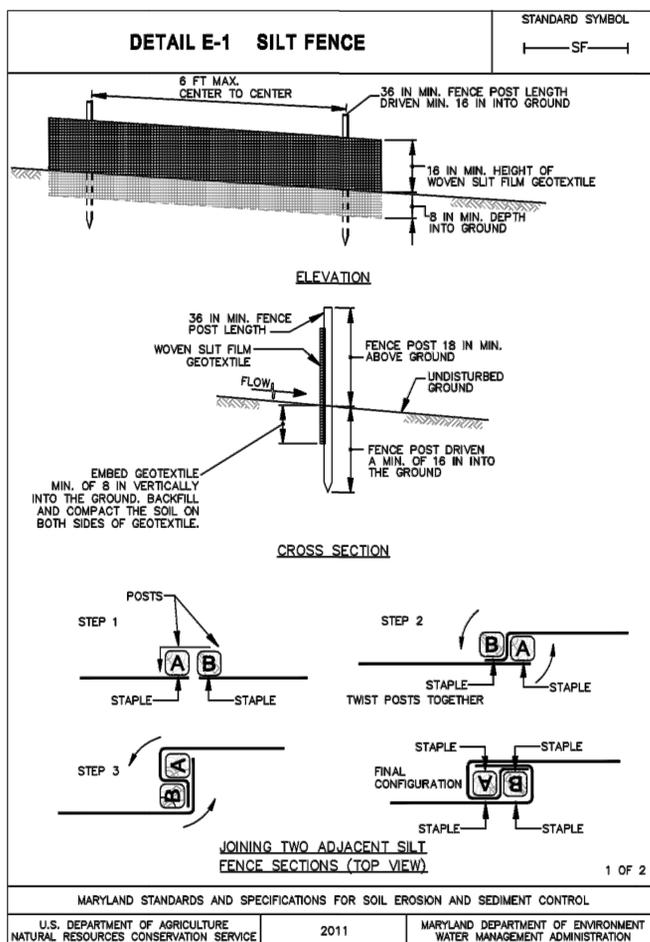
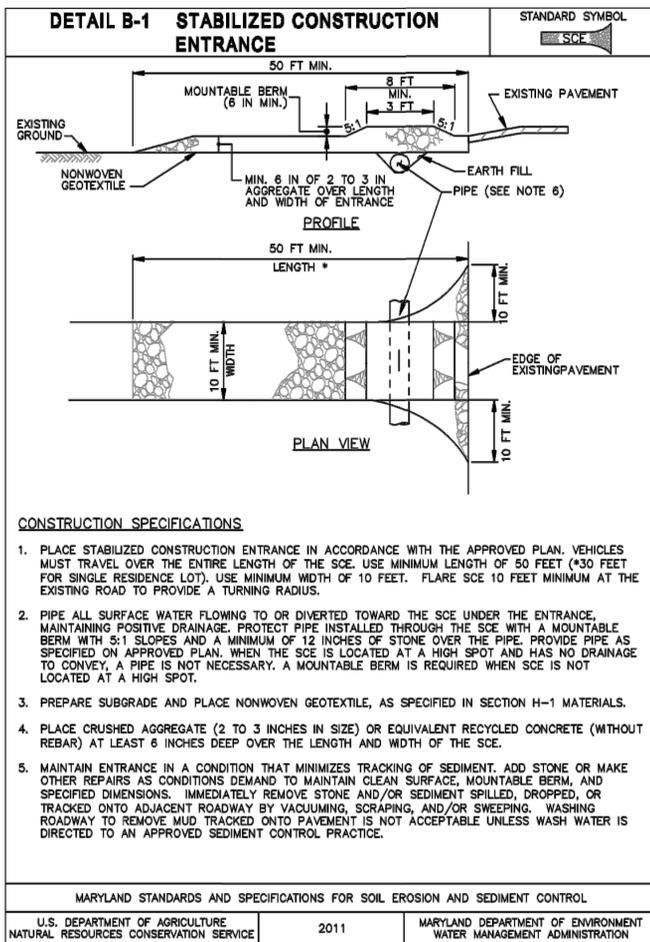
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REV. NO.	DATE	REVISIONS PRIOR TO APPROVAL

EROSION SEDIMENT CONTROL PLAN
FOR SEDIMENT AND EROSION CONTROL ONLY

CHEVERLY RAIN GARDEN
6401 FOREST RD.
CHEVERLY, MD 20785
PRINCE GEORGE'S COUNTY, MARYLAND

ISSUE:	DATE: 01/27/21
SCALE: 1" = 10'	SHEET 4 OF 9
FILE NO:	C-1.03
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COMPOSITION- BIORETTENTION SOIL MIX (BSM)					
TEST PROPERTY	TEST METHOD	TEST VALUE			
Weeds	—	Free of seed and viable plant parts of species in 920.06.02(a)(b)(c) when inspected.			
Debris	—	No observable content of cement, concrete, asphalt, crushed gravel or construction debris.			
Hardwood Mulch	—	20% of the loose volume of BSM when inspected.			
Textural Analysis	T-88	Particle		% Passing by Weight	
		Size	mm	Minimum	Maximum
		Sand	2.0 - 0.050	79	94
		Silt	0.050 - 0.002	4	20
Clay	less than 0.002	1	10	21	
Soil pH	ASTM D 4972	pH of 5.7 to 7.4.			
Organic Matter	T-267	Minimum 1.5% by weight.			
Soluble Salts	EC 1:2 (V:V)	500 ppm (0.78 mmhos/cm) or less.			
Harmful Materials	—	920.01.01(a).			

Note:
Materials Standards and Materials Testing 356 (MSMT 356) has been superseded by OMT Landscaping Soils Eligibility List. Test methods not defined herein shall be as per visual inspection or methods defined by the Landscape Operations Division.

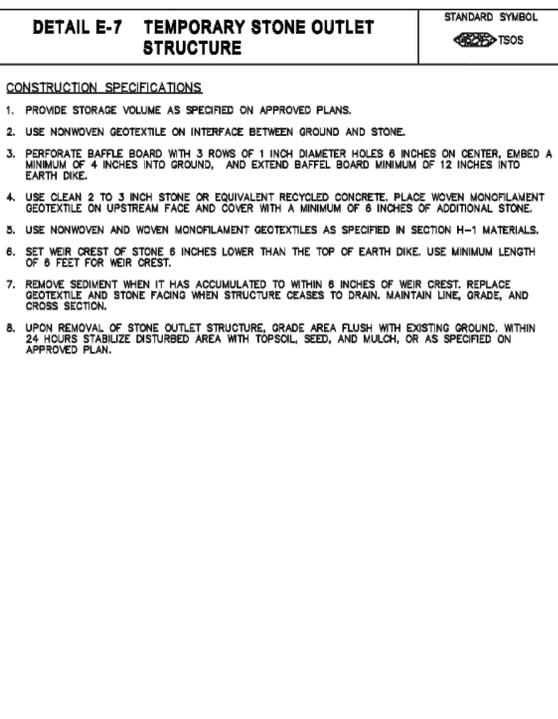
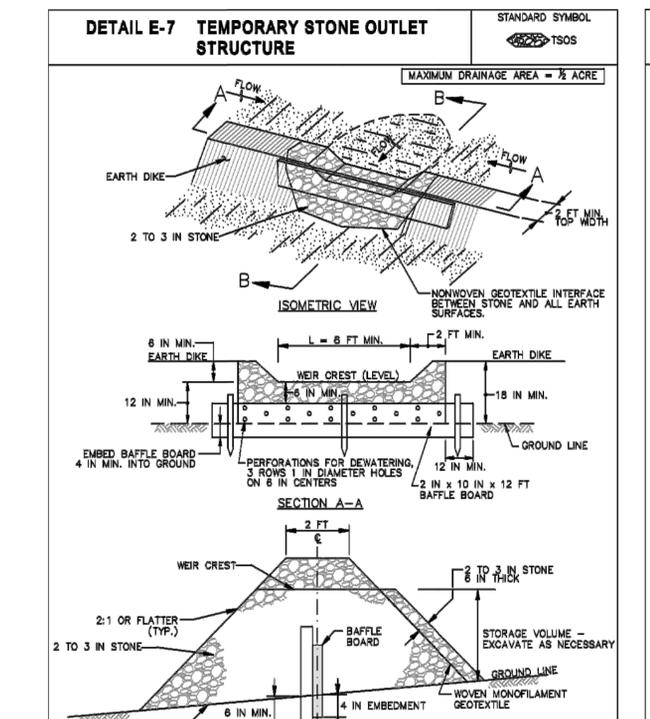
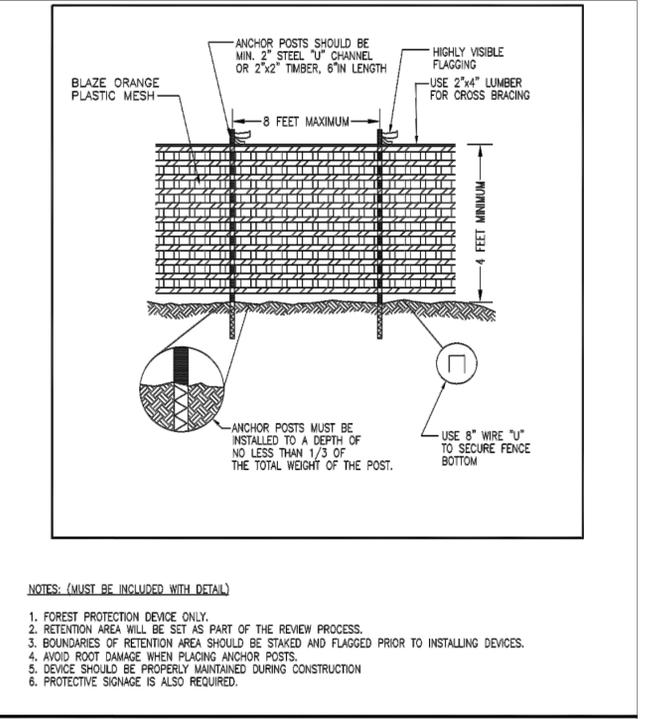
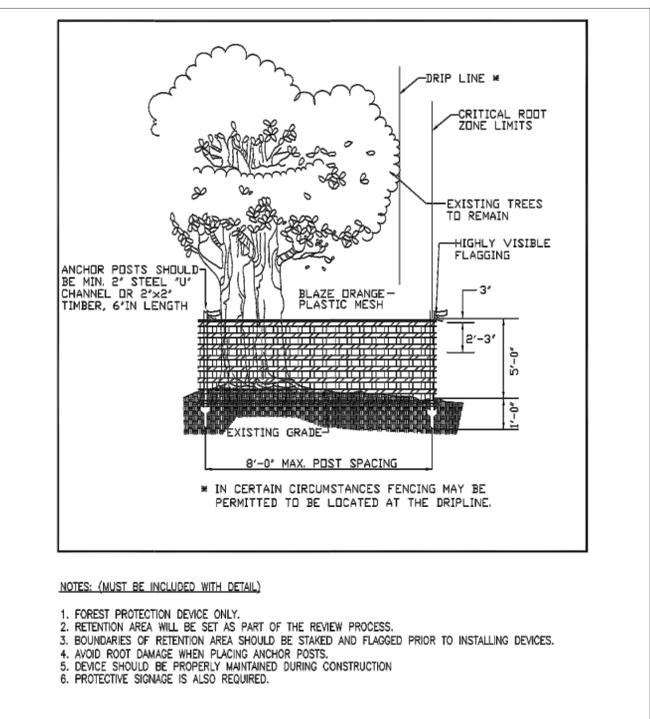
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License No.: 28443

Expiration Date: 12/31/22



Michael Weathers



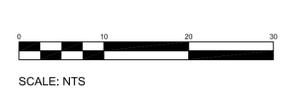
TEMPORARY FENCE PROTECTION DETAIL FOR WOODLAND PRESERVATION AREAS

TYPE 1 (TEMPORARY) TREE PROTECTION FENCE DETAIL FOR WOODLAND PRESERVATION AREAS

DETAILS PLAN

CHEVERLY RAIN GARDEN

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MISS UTILITY NOTE
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REV. NO.	DATE	REVISIONS PRIOR TO APPROVAL

6401 FOREST RD.
CHEVERLY, MD 20785
PRINCE GEORGE'S COUNTY, MARYLAND

ISSUE:	DATE: 01/27/21
SCALE: NOT TO SCALE	SHEET 5 OF 9
FILE NO:	C-1.04
DRAFTED: SE	CHECKED:

B-4-4 STANDARDS AND SPECIFICATIONS FOR TEMPORARY STABILIZATION

DEFINITION

TO STABILIZE DISTURBED SOILS WITH VEGETATION FOR UP TO 6 MONTHS.

PURPOSE

TO USE FAST GROWING VEGETATION THAT PROVIDES COVER ON DISTURBED SOILS.

CONDITIONS WHERE PRACTICE APPLIES

EXPOSED SOILS WHERE GROUND COVER IS NEEDED FOR A PERIOD OF 6 MONTHS OR LESS. FOR LONGER DURATION OF TIME, PERMANENT STABILIZATION PRACTICES ARE REQUIRED.

CRITERIA

1. SELECT ONE OR MORE OF THE SPECIES OR SEED MIXTURES LISTED IN TABLE B.1 FOR THE APPROPRIATE PLANT HARDINESS ZONE (FROM FIGURE B.3), AND ENTER THEM IN THE TEMPORARY SEEDING SUMMARY BELOW ALONG WITH APPLICATION RATES, SEEDING DATES AND SEEDING DEPTHS. IF THIS SUMMARY IS NOT PUT ON THE PLAN AND COMPLETED, THEN TABLE B.1 PLUS FERTILIZER AND LIME RATES MUST BE PUT ON THE PLAN.
2. FOR SITES HAVING SOIL TESTS PERFORMED, USE AND SHOW THE RECOMMENDED RATES BY THE TESTING AGENCY. SOIL TESTS ARE NOT REQUIRED FOR TEMPORARY SEEDING.
3. WHEN STABILIZATION IS REQUIRED OUTSIDE OF A SEEDING SEASON, APPLY SEED AND MULCH OR STRAW MULCH ALONE AS PRESCRIBED IN SECTION B-4-3.A.1.B AND MAINTAIN UNTIL THE NEXT SEEDING SEASON.

TEMPORARY SEEDING SUMMARY

SEED MIXTURE (HARDNESS ZONE 7A) (FROM TABLE B.1)				FERTILIZER RATE (10-20-20)	LIME RATE
SPECIES	APPLICATION RATE (LB/AC)	SEEDING DATES	SEEDING DEPTHS		
BARLEY	96	2/15-4/30 8/15-11/30	1"	436 LBS./AC. (10LB/1000SF)	2 TONS/AC (90LB/1000SF)
CEREAL RYE	112	2/15-4/30 8/15-12/15	1"		
FOXTAIL MILLET	30	6/1-7/31	0.5"		

B-4-5 STANDARDS AND SPECIFICATIONS FOR PERMANENT STABILIZATION

DEFINITION

TO STABILIZE DISTURBED SOILS WITH PERMANENT VEGETATION.

PURPOSE

TO USE LONG-LIVED PERENNIAL GRASSES AND LEGUMES TO ESTABLISH PERMANENT GROUND COVER ON DISTURBED SOILS.

CONDITIONS WHERE PRACTICE APPLIES

EXPOSED SOILS WHERE GROUND COVER IS NEEDED FOR 6 MONTHS OR MORE.

CRITERIA

A. SEED MIXTURES

1. GENERAL USE

A. SELECT ONE OR MORE OF THE SPECIES OR MIXTURES LISTED IN TABLE B.3 FOR THE APPROPRIATE PLANT HARDINESS ZONE (FROM FIGURE B.3) AND BASED ON THE SITE CONDITION OR PURPOSE FOUND ON TABLE B.2. ENTER SELECTED MIXTURE(S), APPLICATION RATES, AND SEEDING DATES IN THE PERMANENT SEEDING SUMMARY. THE SUMMARY IS TO BE PLACED ON THE PLAN.

B. ADDITIONAL PLANTING SPECIFICATIONS FOR EXCEPTIONAL SITES SUCH AS SHORELINES, STREAM BANKS, OR DUNES OR FOR SPECIAL PURPOSES SUCH AS WILDLIFE OR AESTHETIC TREATMENT MAY BE FOUND IN USDA-NRCS TECHNICAL FIELD OFFICE GUIDE, SECTION 342 - CRITICAL AREA PLANTING.

C. FOR SITES HAVING DISTURBED AREA OVER 5 ACRES, USE AND SHOW THE RATES RECOMMENDED BY THE SOIL TESTING AGENCY.

D. FOR AREAS RECEIVING LOW MAINTENANCE, APPLY UREA FORM FERTILIZER (46-0-0) AT 3 1/2 POUNDS PER 1000 SQUARE FEET (150 POUNDS PER ACRE) AT THE TIME OF SEEDING IN ADDITION TO THE SOIL AMENDMENTS SHOWN IN THE PERMANENT SEEDING SUMMARY.

2. TURFGRASS MIXTURES

A. AREAS WHERE TURFGRASS MAY BE DESIRED INCLUDE LAWNS, PARKS, PLAYGROUNDS, AND COMMERCIAL SITES WHICH WILL RECEIVE A MEDIUM TO HIGH LEVEL OF MAINTENANCE.

B. SELECT ONE OR MORE OF THE SPECIES OR MIXTURES LISTED BELOW BASED ON THE SITE CONDITIONS OR PURPOSE. ENTER SELECTED MIXTURE(S), APPLICATION RATES, AND SEEDING DATES IN THE PERMANENT SEEDING SUMMARY. THE SUMMARY IS TO BE PLACED ON THE PLAN.

I. KENTUCKY BLUEGRASS: FULL SUN MIXTURE: FOR USE IN AREAS THAT RECEIVE INTENSIVE MANAGEMENT. IRRIGATION REQUIRED IN THE AREAS OF CENTRAL MARYLAND AND EASTERN SHORE. RECOMMENDED CERTIFIED KENTUCKY BLUEGRASS CULTIVARS SEEDING RATE: 1.5 TO 2.0 POUNDS PER 1000 SQUARE FEET. CHOOSE A MINIMUM OF THREE KENTUCKY BLUEGRASS CULTIVARS WITH EACH RANGING FROM 10 TO 35 PERCENT OF THE TOTAL MIXTURE BY WEIGHT.

II. KENTUCKY BLUEGRASS/PERENNIAL RYE: FULL SUN MIXTURE: FOR USE IN FULL SUN AREAS WHERE RAPID ESTABLISHMENT IS NECESSARY AND WHEN TURF WILL RECEIVE MEDIUM TO INTENSIVE MANAGEMENT. CERTIFIED PERENNIAL RYEGRASS CULTIVARS/CERTIFIED KENTUCKY BLUEGRASS SEEDING RATE: 2 POUNDS MIXTURE PER 1000 SQUARE FEET. CHOOSE A MINIMUM OF THREE KENTUCKY BLUEGRASS CULTIVARS WITH EACH RANGING FROM 10 TO 35 PERCENT OF THE TOTAL MIXTURE BY WEIGHT.

III. TALL FESCUE/KENTUCKY BLUEGRASS: FULL SUN MIXTURE: FOR USE IN DROUGHT PRONE AREAS AND/OR FOR AREAS RECEIVING LOW TO MEDIUM MANAGEMENT IN FULL SUN TO MEDIUM SHADE. RECOMMENDED MIXTURE INCLUDES: CERTIFIED TALL FESCUE CULTIVARS 95 TO 100 PERCENT, CERTIFIED KENTUCKY BLUEGRASS CULTIVARS 0 TO 5 PERCENT. SEEDING RATE: 5 TO 8 POUNDS PER 1000 SQUARE FEET. ONE OR MORE CULTIVARS MAY BE BLENDED.

IV. KENTUCKY BLUEGRASS/FINE FESCUE: SHADE MIXTURE: FOR USE IN AREAS WITH SHADE IN BLUEGRASS LAWNS. FOR ESTABLISHMENT IN HIGH QUALITY, INTENSIVELY MANAGED TURF AREA. MIXTURE INCLUDES: CERTIFIED KENTUCKY BLUEGRASS CULTIVARS 30 TO 40 PERCENT AND CERTIFIED FINE FESCUE AND 60 TO 70 PERCENT. SEEDING RATE: 1 1/2 TO 3 POUNDS PER 1000 SQUARE FEET.

SEED MIXTURE (HARDNESS ZONE 7A) (FROM TABLE B.3)				FERTILIZER RATE (10-20-20)			LIME RATE	
NO.	SPECIES	APPLICATION RATE (LB/AC)	SEEDING DATES	SEEDING DEPTHS	N	P ₂ O ₅		K ₂ O
6	TALL FESCUE (76%) PERENNIAL RYEGRASS (16%) WHITE CLOVER (10%)	40 25 5	2/15 - 4/30 8/15 - 10/15	1/4"-1/2"	45 LBS./AC. (1.0 LB/ 1000 S.F.)	90 LBS./AC. (2.0 LB/ 1000 S.F.)	90 LBS./AC. (2.0 LB/ 1000 S.F.)	2 TONS/AC. (90 LB/ 1000 S.F.)

B. SOD: TO PROVIDE QUICK COVER ON DISTURBED AREAS (2:1 GRADE OR FLATTER).

1. GENERAL SPECIFICATIONS

A. CLASS OF TURFGRASS SOD MUST BE MARYLAND STATE CERTIFIED. SOD LABELS MUST BE MADE AVAILABLE TO THE JOB FOREMAN AND INSPECTOR.

B. SOD MUST BE MACHINE CUT AT A UNIFORM SOIL THICKNESS OF 3/4 INCH, PLUS OR MINUS 1/8 INCH, AT THE TIME OF CUTTING. MEASUREMENT FOR THICKNESS MUST EXCLUDE TOP GROWTH AND THATCH. BROKEN PADS AND TORN OR UNEVEN ENDS WILL NOT BE ACCEPTABLE.

C. STANDARD SIZE SECTIONS OF SOD MUST BE STRONG ENOUGH TO SUPPORT THEIR OWN WEIGHT AND RETAIN THEIR SIZE AND SHAPE WHEN SUSPENDED VERTICALLY WITH A FIRM GRASP ON THE UPPER 10 PERCENT OF THE SECTION.

D. SOD MUST NOT BE HARVESTED OR TRANSPLANTED WHEN MOISTURE CONTENT (EXCESSIVELY DRY OR WET) MAY ADVERSELY AFFECT ITS SURVIVAL.

E. SOD MUST BE HARVESTED, DELIVERED, AND INSTALLED WITHIN A PERIOD OF 36 HOURS. SOD NOT TRANSPLANTED WITHIN THIS PERIOD MUST BE APPROVED BY AN AGRONOMIST OR SOIL SCIENTIST PRIOR TO ITS INSTALLATION.

2. SOD INSTALLATION

A. DURING PERIODS OF EXCESSIVELY HIGH TEMPERATURE OR IN AREAS HAVING DRY SUBSOIL, LIGHTLY IRRIGATE THE SUBSOIL IMMEDIATELY PRIOR TO LAYING THE SOD.

B. LAY THE FIRST ROW OF SOD IN A STRAIGHT LINE WITH SUBSEQUENT ROWS PLACED PARALLEL TO IT AND TIGHTLY WEDGED AGAINST EACH OTHER. STAGGER LATERAL JOINTS TO PROMOTE MORE UNIFORM GROWTH AND STRENGTH. ENSURE THAT SOD IS NOT STRETCHED OR OVERLAPPED AND THAT ALL JOINTS ARE BUTTED TIGHT IN ORDER TO PREVENT VOIDS WHICH WOULD CAUSE AIR DRYING OF THE ROOTS.

C. WHEREVER POSSIBLE, LAY SOD WITH THE LONG EDGES PARALLEL TO THE CONTOUR AND WITH STAGGERING JOINTS. ROLL AND TAMP, PEG OR OTHERWISE SECURE THE SOD TO PREVENT SLIPPAGE ON SLOPES. ENSURE SOLID CONTACT EXISTS BETWEEN SOD ROOTS AND THE UNDERLYING SOIL SURFACE.

D. WATER THE SOD IMMEDIATELY FOLLOWING ROLLING AND TAMPING UNTIL THE UNDERSIDE OF THE NEW SOD PAD AND SOIL SURFACE BELOW THE SOD ARE THOROUGHLY WET. COMPLETE THE OPERATIONS OF LAYING, TAMPING AND IRRIGATING FOR ANY PIECE OF SOD WITHIN EIGHT HOURS.

3. SOD MAINTENANCE

A. IN THE ABSENCE OF ADEQUATE RAINFALL, WATER DAILY DURING THE FIRST WEEK OR AS OFTEN AND SUFFICIENTLY AS NECESSARY TO MAINTAIN MOIST SOIL TO A DEPTH OF 4 INCHES. WATER SOD DURING THE HEAT OF THE DAY TO PREVENT WILTING.

B. AFTER THE FIRST WEEK, SOD WATERING IS REQUIRED AS NECESSARY TO MAINTAIN ADEQUATE MOISTURE CONTENT.

C. DO NOT MOW UNTIL THE SOD IS FIRMLY ROOTED. NO MORE THAN 1/3 OF THE GRASS LEAF MUST BE REMOVED BY THE INITIAL CUTTING OR SUBSEQUENT CUTTINGS. MAINTAIN A GRASS HEIGHT OF AT LEAST 3 INCHES UNLESS OTHERWISE SPECIFIED.

GEOTEXTILE FABRICS

PROPERTY	TEST METHOD	WOVEN SLIT FILM GEOTEXTILE		WOVEN MONOFILAMENT GEOTEXTILE		NONWOVEN GEOTEXTILE	
		MD	CD	MD	CD	MD	CD
MINIMUM AVERAGE ROLL VALUE							
Grab Tensile Strength	ASTM D-4632	200 lb	200 lb	370 lb	250 lb	200 lb	200 lb
Grab Tensile Elongation	ASTM D-4632	15%	10%	15%	15%	50%	50%
Trapezoidal Tear Strength	ASTM D-4533	75 lb	75 lb	100 lb	60 lb	80 lb	80 lb
Puncture Strength	ASTM D-6241	450 lb		900 lb		450 lb	
Apparent Opening Size	ASTM D-4751	U.S. Sieve 30 (0.69 mm)		U.S. Sieve 70 (0.21 mm)		U.S. Sieve 70 (0.21 mm)	
Permittivity	ASTM D-4491	0.05/sec		0.28/sec		1.1/sec	
Ultraviolet Resistance Retained at 500 hours	ASTM D-4355	70% strength		70% strength		70% strength	

STONE SIZE

TYPE	SIZE RANGE	D50	D100	AASHTO	MIDSIZE WEIGHT
NUMBER 57	3/8" to 1-1/2"	1/2"	1-1/2"	M-43	N/A
NUMBER 1	2" to 3"	2-1/2"	3"	M-43	N/A
RIPRAP (CLASS 0)	4" to 7"	5-1/2"	7"	N/A	N/A
CLASS I	N/A	9-1/2"	15"	N/A	40 lb
CLASS II	N/A	18"	24"	N/A	200 lb
CLASS III	N/A	23"	34"	N/A	600 lb

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.: 28443

Expiration Date: 12/31/22



Neil Alweinstein



LOW IMPACT DEVELOPMENT CENTER

5000 Sunnyside Avenue, Suite 100
Beltsville, MD 20705
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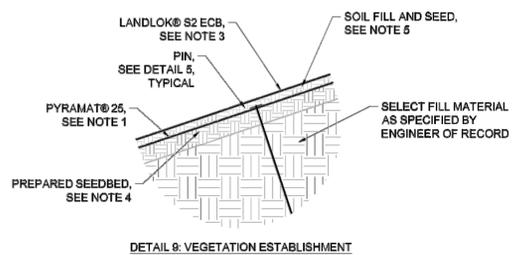
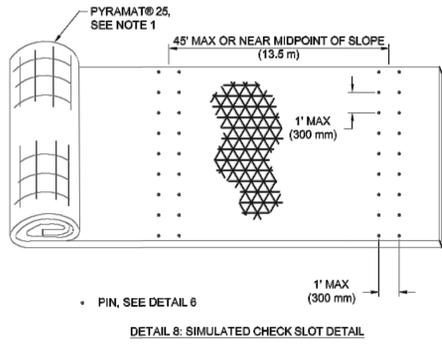
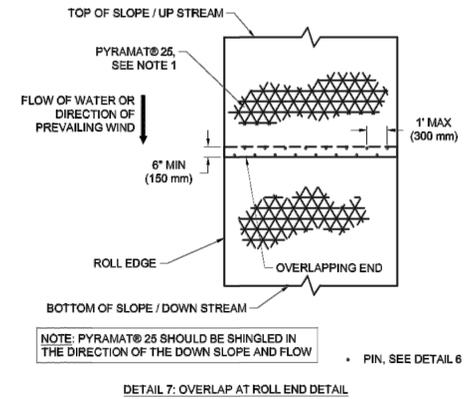
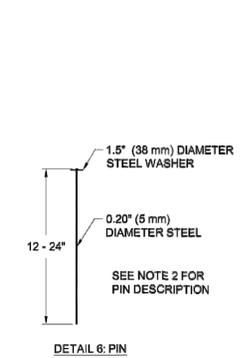
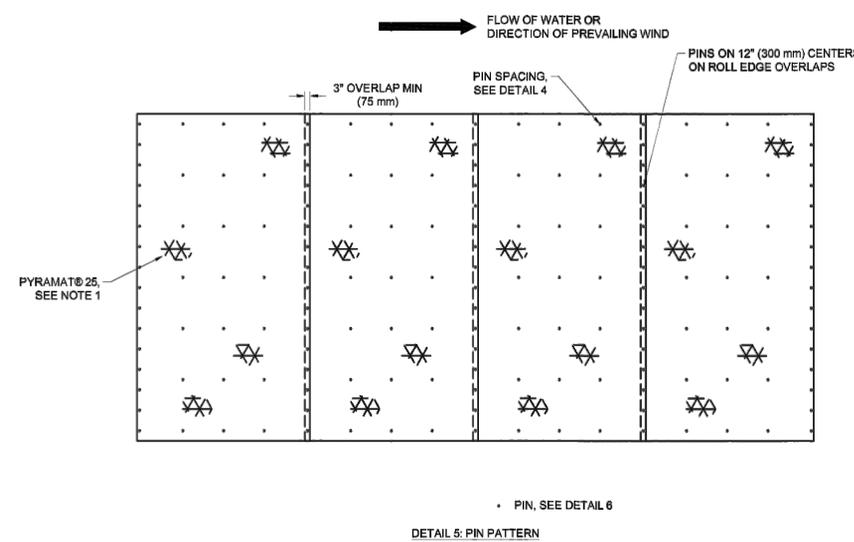
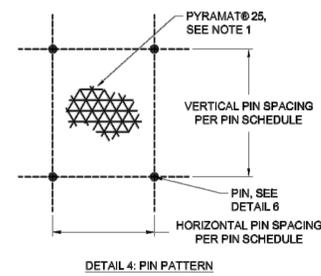
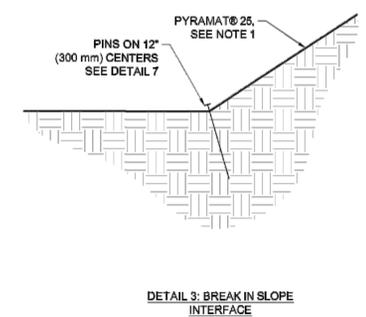
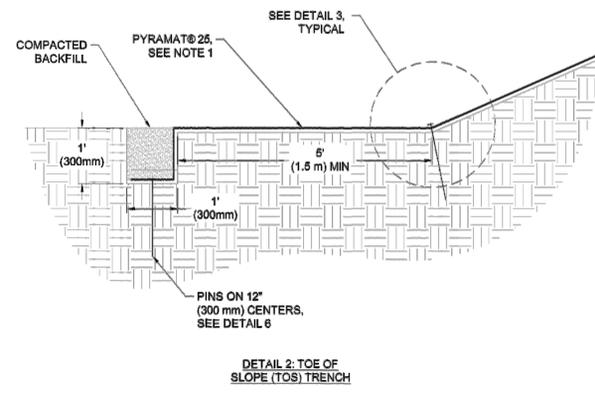
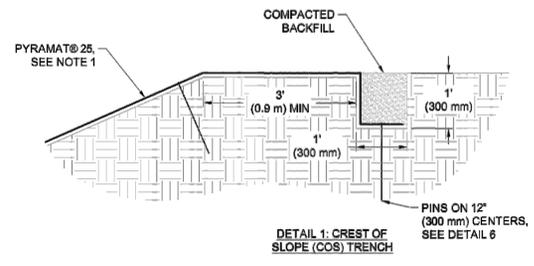
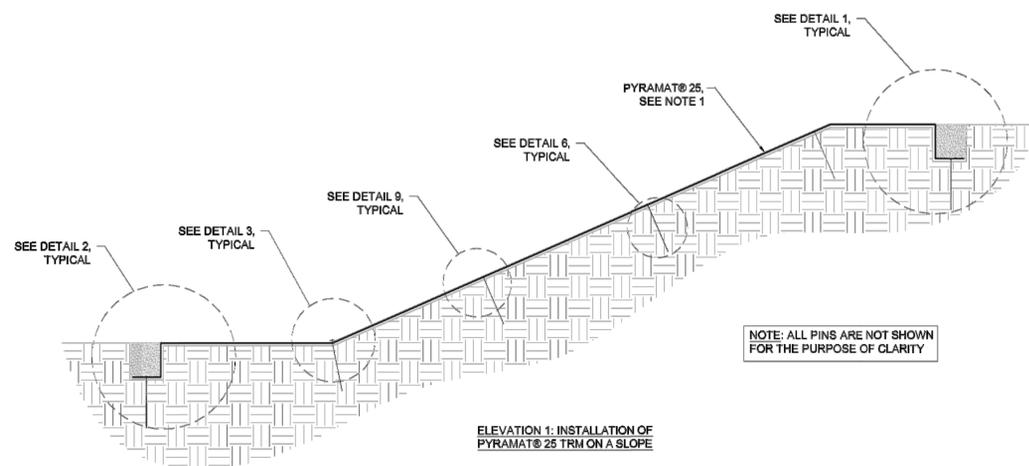
REV. NO.	DATE	REVISIONS PRIOR TO APPROVAL

DETAILS PLAN

CHEVERLY RAIN GARDEN

6401 FOREST RD.
CHEVERLY, MD 20785
PRINCE GEORGE'S COUNTY, MARYLAND

ISSUE:	DATE: 01/27/21
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PIN SCHEDULE	
SECURING DEVICE	PIN
HORIZONTAL PIN SPACING	2' (0.80 m)
VERTICAL PIN SPACING	2.0' (0.75 m)
EMBEDMENT DEPTH	PER MANUFACTURES DESIGN

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.: 28443
 Expiration Date: 12/31/22



- PYRAMAT® 25 TRM ON A SLOPE FOR EROSION CONTROL GENERAL INSTALLATION GUIDELINES**
- GENERAL NOTES**
- PYRAMAT® 25 TRM is a three-dimensional, lofty, woven polypropylene geotextile that is available in green or tan which is specially designed for erosion control applications on steep slopes and vegetated waterways. The matrix is composed of polypropylene monofilament yarns featuring X3® technology woven into a uniform configuration of resilient pyramid-like projections. The material exhibits very high interlock and reinforcement capacity with both soil and root systems, demonstrates superior UV resistance, and enhances seedling emergence.
 - The 12", 18", and 24" Securing Pins are composed of a wire, mushroomed at the top. A washer is then placed on the wire and the wire is crimped or swaged about 3-1/2" below the top so the washer will not slide off. The end of the wire is cut at a 45 degree angle for easy penetration of the soil. These Pins with washers conform to industry standards for erosion control pins with washers.
 - LANDLOK® S2 Erosion Control Blankets consist of 100% wheat straw mechanically bound and covered on both sides by netting. The straw is homogeneously blended and evenly distributed throughout the blanket. The netting is photodegradable polypropylene with mesh openings of approximately 3/8 in. by 3/8 in. (11 mm by 11 mm). The blanket is sewn on approximately 2 in. (51 mm) centers with photodegradable polypropylene thread. This product is NTEPEP approved for AASHTO standards.
- VEGETATION ESTABLISHMENT**
- Prepare seedbed by loosening 50 to 75 mm (2 to 3 in) of soil above final grade. Apply seed in an amount equivalent to 60% of the total mixture required to be installed on the soil surface, to scarified surface prior to installation of the PYRAMAT® 25 TRM. Select and apply soil amendments and fertilizer, to scarified surface prior to installation of the PYRAMAT® 25 TRM. A site specific soil test should be performed to help determine what soil amendments, such as lime and fertilizer, need to be incorporated into the soil to promote healthy vegetation.
 - The installed PYRAMAT® 25 TRM shall be soil filled and seeded with the remaining 40% of the seed mixture. Do not place excessive soil above material. Once soil fill and additional seed is in place, surficial protection should be accomplished by installing LANDLOK® S2 Erosion Control Blanket (ECB) atop the seed layer. LANDLOK® S2 ECB is to be secured using 6" U-shaped staples with a frequency of 2.0 staples per square meter (1.7 staples per square yard).
 - Irrigate as necessary to establish and maintain vegetation until 75% of vegetation has established and has reached a height of 2 inches. Frequent, light irrigation will need to be applied to seeded areas if natural rain events have not occurred within two weeks of seeding.
- BEFORE INSTALLATION BEGINS**
- Coordinate with a Propex Representative: A pre-construction meeting is suggested with the construction team and a representative from Propex. This meeting should be scheduled by the contractor with at least a two week notice.
 - Gather the Tools Needed: Tools that you will need to install PYRAMAT® 25 include a pair of industrial shears to cut PYRAMAT® 25 and tape measure.
 - Determine how to Establish Vegetation: The method of vegetation establishment should be determined prior to the start of installation. Different vegetation establishment methods require different orders of installation. Refer to Establish Vegetation for further guidance.
 - Please consult the Propex Website for the most up to date installation guidelines.

EROSION CONTROL INSTALLATION DETAILS

Please note that the information presented herein is general information only. It is for conceptual use only and not intended to be used for construction. While every effort has been made to ensure its accuracy, this information should not be used for a specific application without independent professional examination and verification of its suitability, applicability, and accuracy. This engineering drawing is protected by the Copyright Act, 17 U.S.C. §101 et seq. and may be used ONLY with the express written permission of Propex in connection with Propex products. Any copying, distributing, and/or creation of a derivative work without permission of Propex is prohibited and is subject of actual damages, statutory damages and attorney's fees under the Copyright Act.

**TURF REINFORCEMENT MAT (TRM)
PYRAMAT® 25 INSTALLATION DETAILS FOR SLOPES**

Date: 02/15/2017
 Drawn By: J. HILL
 Scale: NTS

*ALL DIMENSIONS ARE TO BE VERIFIED BY ENGINEER OF RECORD

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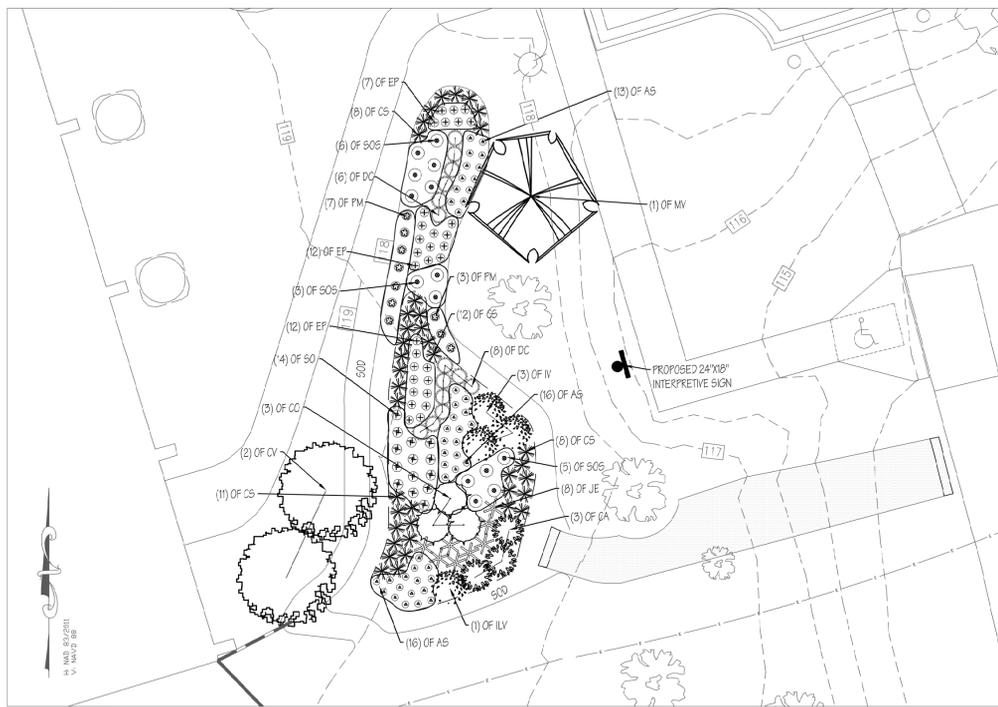
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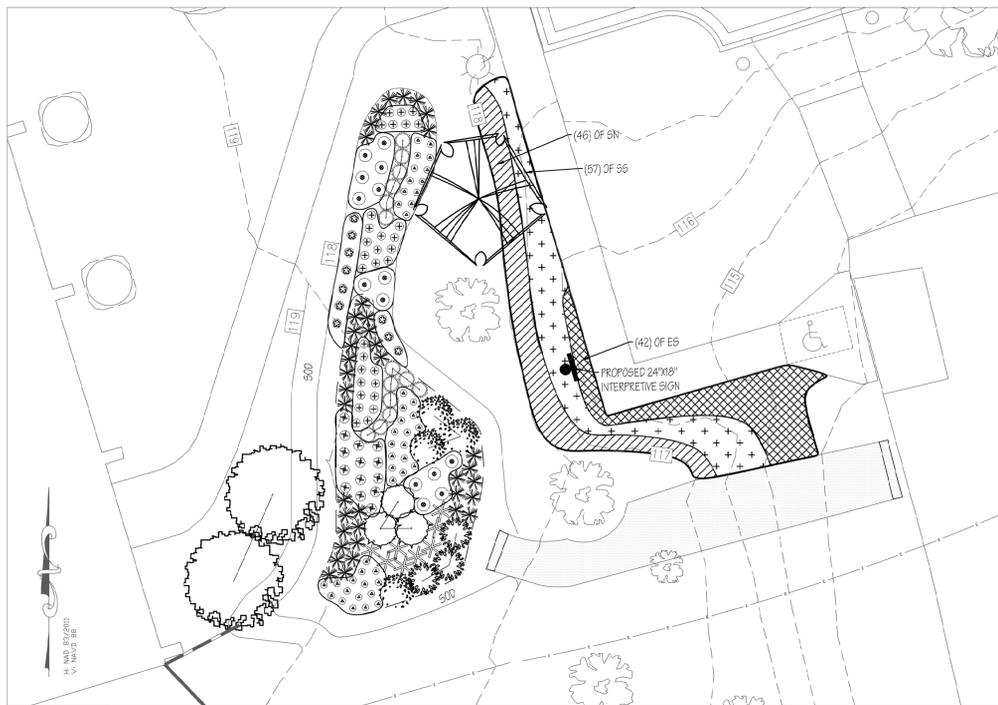
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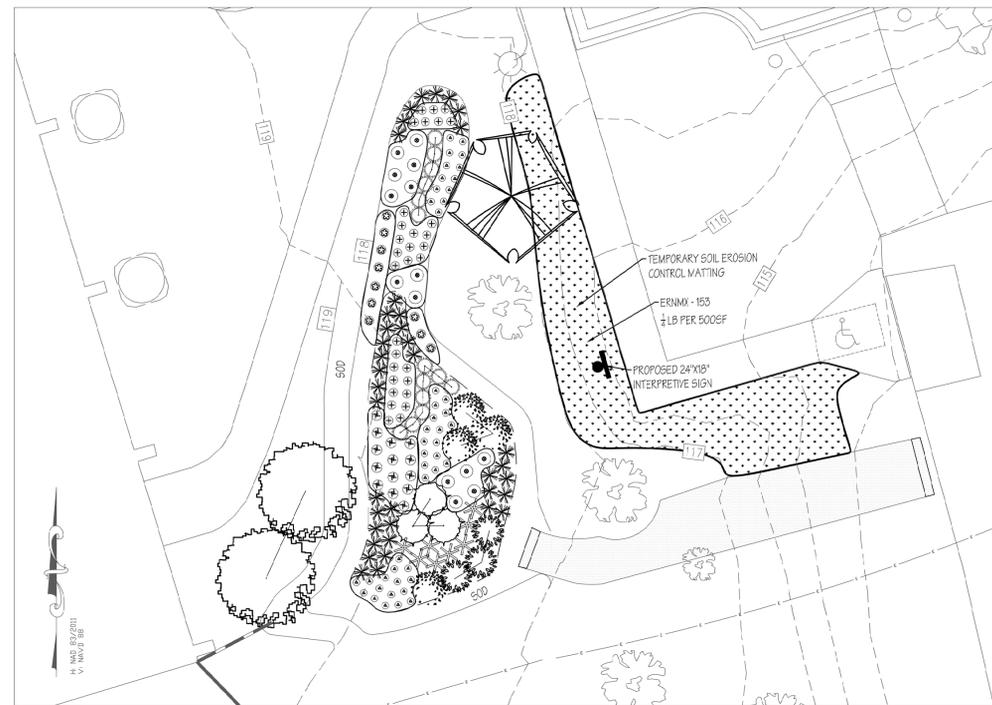
ALTERNATE 1 - RAIN GARDEN
FULL SUN/PART SHADE



PLANT LIST							
TYPE	QTY	SYMBOL	LATIN NAME	COMMON NAME	SIZE	SPACING	REMARKS
TREES	2	CV	CHIONANTHUS VIRGINICUS	FRINGE TREE	2" CAL, 4+ HT	12" O.C.	
	1	MV	MAGNOLIA VIRGINIANA	SWEET BAY MAGNOLIA	2" CAL, 4+ HT	15" O.C.	
SHRUBS	3	CO	CEPHALANTHUS OCCIDENTALIS	BUTTONBUSH	3 GAL	48" O.C.	
	3	CA	CLETHRA ALNIFOLIA	SWEET PEPPERBUSH	3 GAL	48" O.C.	
	1	ILV	ILEX VERTICILLATA	WINTERBERRY	3 GAL	48" O.C.	PLANT ONE MALE TO POLLINATE THREE FEMALE PLANTS
	3	IV	ILEX VERTICILLATA	WINTERBERRY	3 GAL	48" O.C.	PLANT FEMALE PLANT
PERENNIALS	45	AS	ASCLEPIAS SYRIACA	COMMON MILKWEED	1 GAL	18" O.C.	
	31	EP	ERIGERON PHILADELPHICUS	COMMON FLEABANE	1 GAL	18" O.C.	
	10	PM	PYCNANTHEMUM MUTICUM	SHORT-TOOTHED MOUNTAIN MINT	1 GAL	24" O.C.	
	14	SOS	SOLIDAGO SEMPERVIRENS	SEASIDE GOLDENROD	1 GAL	30" O.C.	
	14	SO	SYMPHYOTRICHUM OBLONGIFOLIUM	AROMATIC ASTER	1 GAL	24" O.C.	
	GRASSES + SEDGES	39	CS	CAREX STRICTA	TUSsock SEDGE	1 GAL	24" O.C.
	13	DC	DESCHAMPSIA CESPITOSA	TUFTED HAIRGRASS	1 GAL	24" O.C.	
	8	JE	JUNCUS EFFUSUS	COMMON RUSH	1 GAL	30" O.C.	



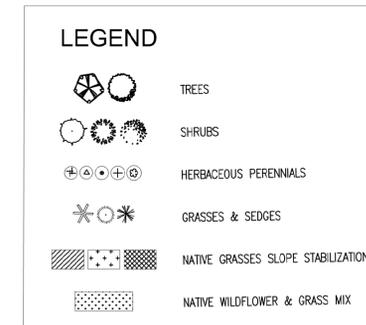
ALTERNATE 2 - NATIVE GRASSES SLOPE STABILIZATION
FULL SUN/PART SHADE



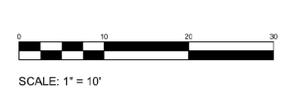
ALTERNATE 3 - NATIVE WILDFLOWER & GRASS MIX
FULL SUN/PART SHADE



PLANT LIST							
TYPE	QTY	SYMBOL	LATIN NAME	COMMON NAME	SIZE	SPACING	REMARKS
GRASSES + FERNS	42	ES	ERAGROSTIS SPECTABILIS	PURPLE LOVEGRASS	1 GAL	24" O.C.	
	46	SN	SORGHASTRUM NUTANS	INDIAN GRASS	1 GAL	24" O.C.	
	57	SS	SCHIZACHYRIUM SCOPARIUM	LITTLE BLUESTEM	1 GAL	24" O.C.	



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REV. NO.	DATE	REVISIONS PRIOR TO APPROVAL

LANDSCAPE PLAN

CHEVERLY RAIN GARDEN
6401 FOREST RD.
CHEVERLY, MD 20785
PRINCE GEORGE'S COUNTY, MARYLAND

ISSUE:	DATE: 02/05/21
SCALE: 1" = 10'	SHEET 8 OF 9
FILE NO:	L-1.01
DRAFTED: BD	
CHECKED:	

LANDSCAPE SPECIFICATIONS

A. PLANT MATERIALS

THE LANDSCAPE CONTRACTOR SHALL FURNISH AND INSTALL AND/OR DIG, BALL, BURLAP, AND TRANSPLANT ALL OF THE PLANT MATERIALS CALLED FOR ON THE DRAWINGS AND/OR LISTED IN THE PLANT SCHEDULE.

B. PLANT NAMES

PLANT NAMES USED IN THE PLANT SCHEDULE SHALL BE IDENTIFIED IN ACCORDANCE WITH HORTUS THIRD, BY L.H. BAILEY, 1976.

C. PLANT STANDARDS

ALL PLANT MATERIALS SHALL BE EQUAL TO OR BETTER THAN THE REQUIREMENTS OF THE "AMERICAN STANDARD FOR NURSERY STOCK," LATEST EDITION, AS PUBLISHED BY THE AMERICAN ASSOCIATION OF NURSERYMEN (HEREAFTER REFERRED TO AS AAN STANDARDS). ALL PLANTS SHALL BE TYPICAL OF THEIR SPECIES AND VARIETY, SHALL HAVE A NORMAL HABIT OF GROWTH, AND SHALL BE FIRST QUALITY, SOUND, VIGOROUS, WELL-BRANCHED AND WITH HEALTHY WELL-FURNISHED ROOT SYSTEMS. THEY SHALL BE FREE OF DISEASE, INSECT PESTS AND MECHANICAL INJURIES.

(1) ALL PLANTS SHALL BE NURSERY GROWN AND SHALL HAVE BEEN GROWN UNDER THE SAME CLIMATIC CONDITIONS AS THE LOCATION OF THIS PROJECT FOR AT LEAST TWO YEARS BEFORE PLANTING. NEITHER HEELED-IN PLANTS NOR PLANTS FROM COLD STORAGE WILL BE ACCEPTED.

(2) COLLECTED PLANTS OR TRANSPLANTED TREES MAY BE CALLED FOR BY THE LANDSCAPE ARCHITECT AND USED, PROVIDED, HOWEVER, THAT LOCATIONS AND SOIL CONDITIONS WILL PERMIT PROPER BALLING.

D. PLANT MEASUREMENTS

(1) MINIMUM SIZE FOR PLANTING SHRUBS SHALL BE, IN GENERAL, EIGHTEEN TO TWENTY-FOUR (18-24) INCHES IN HEIGHT OR SPREAD, AS APPROPRIATE, EXCEPT THAT A LARGER SIZE MAY BE REQUIRED WHEN DEEMED APPROPRIATE BY THE PUBLIC WORKS DIRECTOR IN THE CASE OF PARTICULAR SPECIES OR PLANTING SITUATIONS.

E. PLANTING METHODS

ALL PROPOSED PLANT MATERIAL THAT MEETS THE SPECIFICATIONS IN SECTION B. ABOVE ARE TO BE PLANTED IN ACCORDANCE WITH THE FOLLOWING PLANTING METHODS DURING THE PROPER SEASONS AS DESCRIBED BELOW.

(1) PLANTING SEASONS

A PROFESSIONAL HORTICULTURALIST/NURSERYMAN SHALL BE CONSULTED TO DETERMINE THE PROPER TIME, BASED ON PLANT SPECIES AND WEATHER CONDITIONS, TO MOVE AND INSTALL PARTICULAR PLANT MATERIAL TO MINIMIZE STRESS TO THE PLANT. PLANTING OF DECIDUOUS MATERIAL MAY BE CONTINUED DURING THE WINTER MONTHS PROVIDED THERE IS NO FROST IN THE GROUND AND FROST-FREE TOP SOIL PLANTING MIXTURES ARE USED. MONITOR WEATHER CONDITIONS AND AVOID PLANTING IF SOIL ON SITE IS TOO WET. LANDSCAPE PLUGS MUST BE INSTALLED WHILE THEY ARE IN ACTIVE GROWTH ONLY.

(2) DIGGING

ALL PLANT MATERIAL SHALL BE DUG, BALLED AND BURLAPPED (B+B) OR BARE ROOT IN ACCORDANCE WITH THE "AAN STANDARDS."

(3) EXCAVATION OF PLANT PITS

THE LANDSCAPE CONTRACTOR SHALL EXCAVATE ALL PLANT PITS, VINE PITS, HEDGE TRENCHES AND SHRUB BEDS AS FOLLOWS:

(A) ALL PITS SHALL BE GENERALLY CIRCULAR IN OUTLINE, WITH BOWL SHAPED SIDES. THE TREE PIT SHALL BE DEEP ENOUGH TO ALLOW ONE-EIGHTH (1/8) OF THE BALL TO BE ABOVE THE EXISTING GRADE. PLANTS SHALL REST ON UNDISTURBED EXISTING SOIL OR WELL COMPACTED BACKFILL. THE TREE PIT MUST BE A MINIMUM OF NINE (9) INCHES LARGER ON EVERY SIDE THAN THE BALL OF THE TREE.

(B) IF AREAS ARE DESIGNATED AS SHRUB BEDS OR HEDGE TRENCHES, THEY SHALL BE CULTIVATED TO AT LEAST EIGHTEEN (18) INCHES IN DEPTH MINIMUM. AREAS DESIGNATED FOR GROUND COVERS AND VINES SHALL BE CULTIVATED TO AT LEAST TWELVE (12) INCHES IN DEPTH MINIMUM.

(4) PLANT PRUNING, EDGING, AND MULCHING

(A) EACH TREE, SHRUB OR VINE SHALL BE PRUNED IN AN APPROPRIATE MANNER TO ITS PARTICULAR REQUIREMENTS, IN ACCORDANCE WITH ACCEPTED STANDARD PRACTICES AS STATED IN ANSI STANDARDS A300 FOR PRUNING. BROKEN OR BRUISED BRANCHES SHALL BE REMOVED WITH CLEAN CUTS MADE ON AN ANGLE FROM THE BARK RIDGE TO THE BRANCH COLLAR, NO FLUSH CUTS, TO MINIMIZE THE AREA CUT. ALL CUTS SHALL BE MADE WITH SHARP TOOLS. TRIM ALL EDGES SMOOTH. NO TREE WOUND DRESSINGS SHALL BE APPLIED.

(B) AFTER CULTIVATION, ALL PLANT MATERIALS SHALL BE MULCHED WITH A TWO TO THREE (2-3) INCH LAYER OF AGED SINGLE OR DOUBLE SHREDDED HARDWOOD MULCH OR CHIPS OVER THE ENTIRE AREA OF THE BED OR SAUCER. REFER TO THE MARYLAND STORMWATER MANAGEMENT DESIGN MANUAL.

(5) SUBSTITUTIONS, REPLACEMENT, AND UNACCEPTABLE PLANTS

(A) LANDSCAPE CONTRACTOR SHALL SUBMIT A WRITTEN MODIFICATION REQUEST TO INSTALL PLANTS OF DIFFERENT SPECIES, CULTIVARS, SIZES, GROWTH HABITS, OR PLANTING STOCK TYPE. SUBSTITUTIONS MUST BE APPROVED BY THE LANDSCAPE ARCHITECT BEFORE THE PLANTS ARE BROUGHT TO THE SITE.

(B) PROMPTLY REMOVE AND REPLACE PLANTS THAT ARE UNACCEPTABLE AT ANY TIME DURING INSTALLATION AS SPECIFIED IN MD SHA 920.07, OR WHEN REQUESTED. PLANTS THAT ARE DETERMINED TO BE MISSING, DEAD, DYING, DAMAGED, DISEASED, DEFORMED, UNDERDEVELOPED, DAMAGED BY PESTICIDES, OR NOT TRUE TO SPECIES, CULTIVAR, SIZE OR QUALITY SHALL BE REPLACED.

F. SEEDING AND SODDING

ALL SEEDING AND SODDING SHALL BE AS PER 1994 STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL.

G. TOP SOIL

TOP SOIL SHALL BE RETAINED AND/OR PROVIDED ON ALL SITES AND SPREAD OVER ALL UNIMPROVED AREAS. REFER TO MD SHA SECTION 920.01.01.

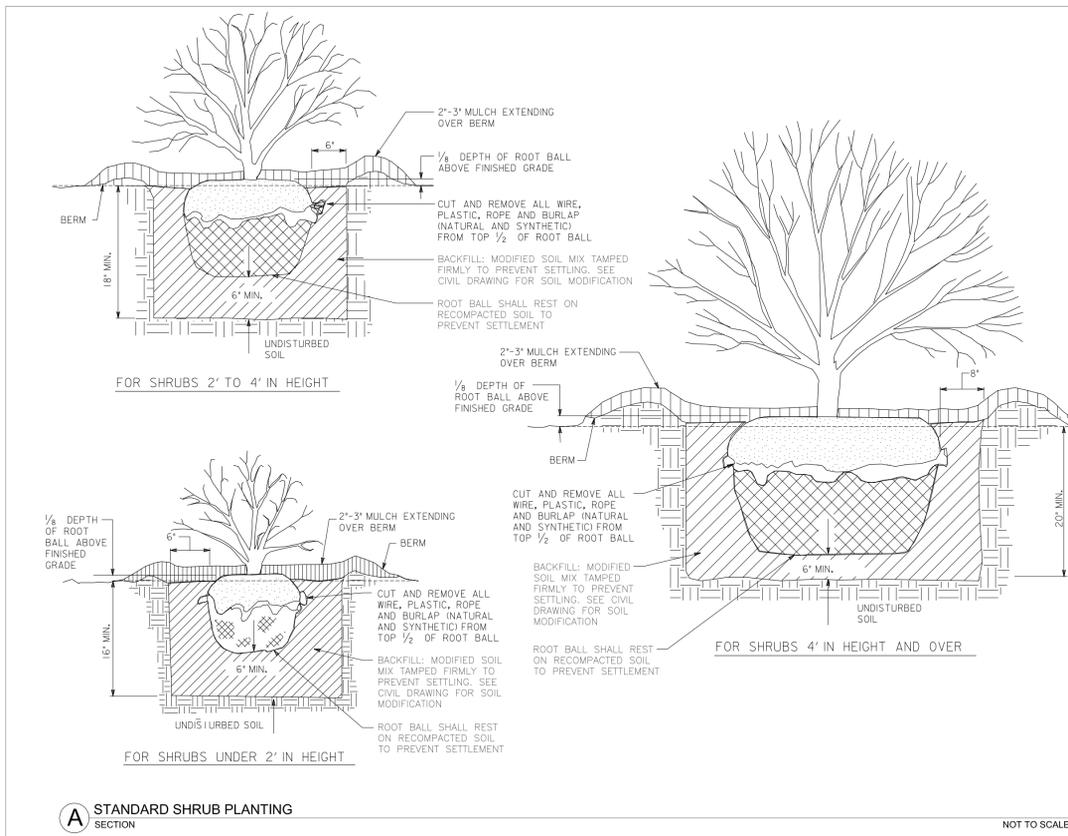
H. MAINTENANCE

THE CONTRACTOR SHALL WATER, PRUNE, AND CULTIVATE TREES TWICE DURING THE FIRST TWENTY-FOUR (24) HOURS AND AS-NEEDED DURING THE FIRST GROWING SEASON. MAINTAIN PLANTS FOR 12 MONTHS AFTER INSTALLATION, UNTIL FINAL ACCEPTANCE.

I. WARRANTY

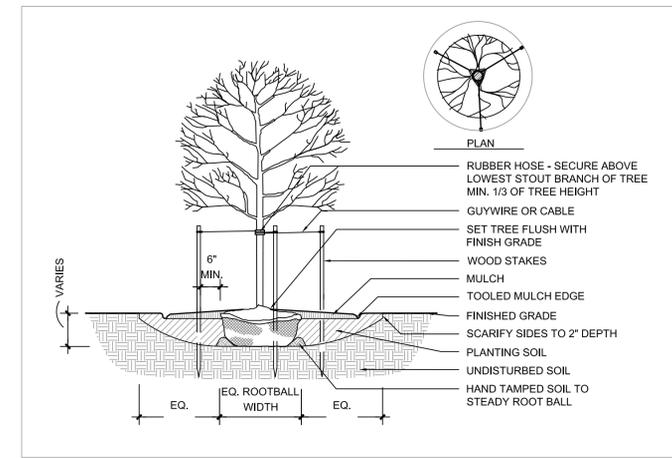
WARRANTY PERIOD FOR ALL PLANT MATERIAL SHALL BE FOR ONE YEAR. WARRANTY PERIOD BEGINS AT THE DATE OF FINAL ACCEPTANCE OF THE PROJECT.

ALL OTHER LANDSCAPE MATERIALS AND SPECIFICATIONS NOT NOTED ABOVE SHALL CONFORM TO MDSA LANDSCAPE STANDARDS AND SPECIFICATIONS.



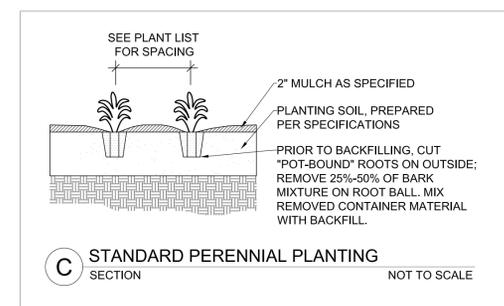
A STANDARD SHRUB PLANTING SECTION

NOT TO SCALE



B TRIANGULAR SPACING PLAN

NOT TO SCALE



C STANDARD PERENNIAL PLANTING SECTION

NOT TO SCALE



Ernst Conservation Seeds
 8884 Mercer Pike
 Meadville, PA 16335
 (800) 873-3321 Fax (814) 336-5191
www.ernstseed.com

Date: January 21, 2021

Showy Northeast Native Wildflower & Grass Mix - ERMX-153

Botanical Name	Common Name
29.70 % <i>Bouteloua curtipendula</i> , <i>Butte</i>	Sideoats Grama, Butte
27.20 % <i>Schizachyrium scoparium</i> , <i>Fort Indiantown Gap-PA Ecotype</i>	Little Bluestem, Fort Indiantown Gap-PA Ecotype
15.00 % <i>Elymus virginicus</i> , <i>'Madison'</i>	Virginia Wildrye, 'Madison'
7.00 % <i>Echinacea purpurea</i>	Purple Coneflower
3.50 % <i>Chamaecrista fasciculata</i> , <i>PA Ecotype</i>	Partridge Pea, PA Ecotype
3.00 % <i>Coreopsis lanceolata</i>	Lanceleaf Coreopsis
3.00 % <i>Rudbeckia hirta</i>	Blackeyed Susan
2.00 % <i>Helopsis helianthoides</i> , <i>PA Ecotype</i>	Oxeye Sunflower, PA Ecotype
1.50 % <i>Liatris spicata</i> , <i>PA Ecotype</i>	Marsh Blazing Star, PA Ecotype
1.20 % <i>Tradescantia ohiensis</i> , <i>PA Ecotype</i>	Ohio Spiderwort, PA Ecotype
1.00 % <i>Penstemon digitalis</i>	Tall White Beardtongue
0.90 % <i>Pycnanthemum tenuifolium</i>	Narrowleaf Mountainmint
0.70 % <i>Senna hebecarpa</i> , <i>VA & WV Ecotype</i>	Wild Senna, VA & WV Ecotype
0.50 % <i>Asclepias tuberosa</i>	Butterfly Milkweed
0.50 % <i>Baptisia australis</i> , <i>Southern WV Ecotype</i>	Blue False Indigo, Southern WV Ecotype
0.50 % <i>Zizia aurea</i>	Golden Alexanders
0.40 % <i>Aster oblongifolius</i> , <i>PA Ecotype</i>	Aromatic Aster, PA Ecotype
0.40 % <i>Aster prenanthoides</i> , <i>PA Ecotype</i>	Zigzag Aster, PA Ecotype
0.40 % <i>Monarda fistulosa</i> , <i>Fort Indiantown Gap-PA Ecotype</i>	Wild Bergamot, Fort Indiantown Gap-PA Ecotype
0.30 % <i>Aster laevis</i> , <i>NY Ecotype</i>	Smooth Blue Aster, NY Ecotype
0.30 % <i>Aster novae-angliae</i> , <i>PA Ecotype</i>	New England Aster, PA Ecotype
0.20 % <i>Coreopsis tripteris</i> , <i>PA Ecotype</i>	Tall Coreopsis, PA Ecotype
0.20 % <i>Oenothera fruticosa</i> var. <i>fruticosa</i>	Sundrops
0.20 % <i>Solidago nemoralis</i> , <i>PA Ecotype</i>	Gray Goldenrod, PA Ecotype
0.10 % <i>Penstemon hirsutus</i>	Hairy Beardtongue
0.10 % <i>Senna marilandica</i>	Maryland Senna
0.10 % <i>Solidago juncea</i> , <i>PA Ecotype</i>	Early Goldenrod, PA Ecotype
0.10 % <i>Solidago odora</i> , <i>PA Ecotype</i>	Licorice Scented Goldenrod, PA Ecotype

100.00 % Mix Price/lb Bulk

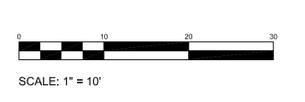
Seeding Rate: 20 lb per acre, or 1/2 lb per 1,000 sq ft

Pollinator Favorites; Uplands & Meadows



Neil Alan Weinstock
 Expiration Date: 09/17/21

LOW IMPACT DEVELOPMENT CENTER
 5000 Sunnyside Avenue, Suite 100
 Beltsville, MD 20705
 Tel. (301) 982-5559
 Fax. (301) 982-9305
www.lowimpactdevelopment.org



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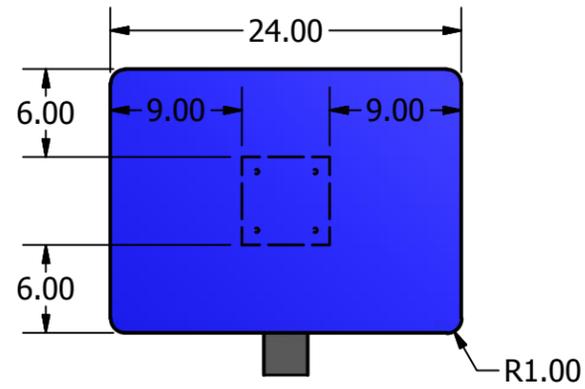
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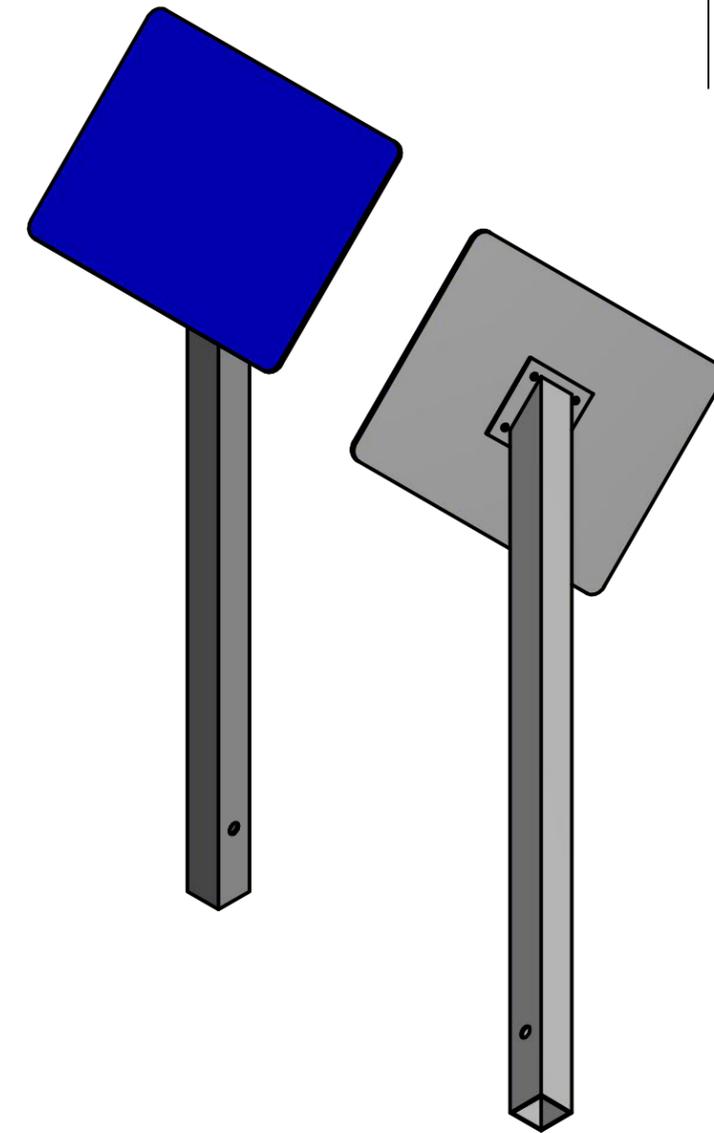
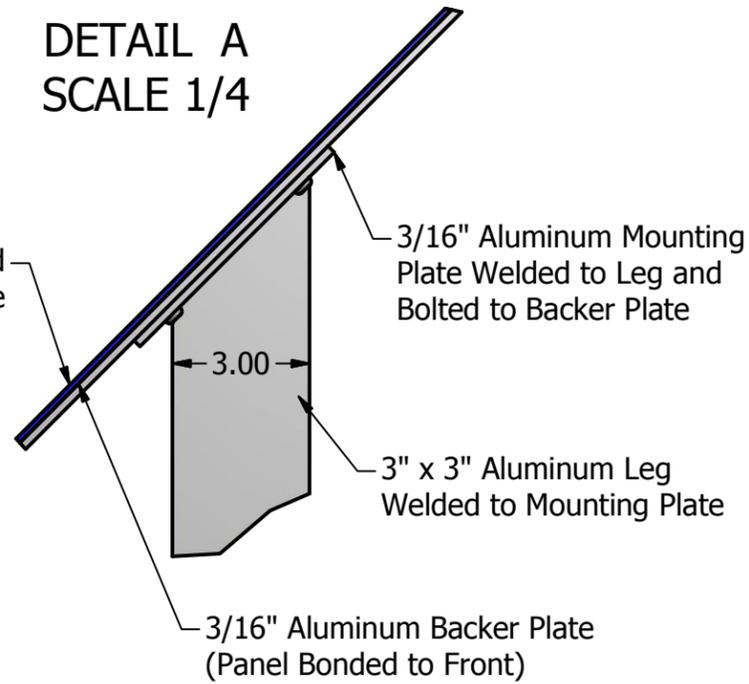
CHEVERLY RAIN GARDEN
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ISSUE:	DATE: 02/05/21
SCALE: VARIES	SHEET 9 OF 9
FILE NO:	L-1.02
DRAFTED: BD	
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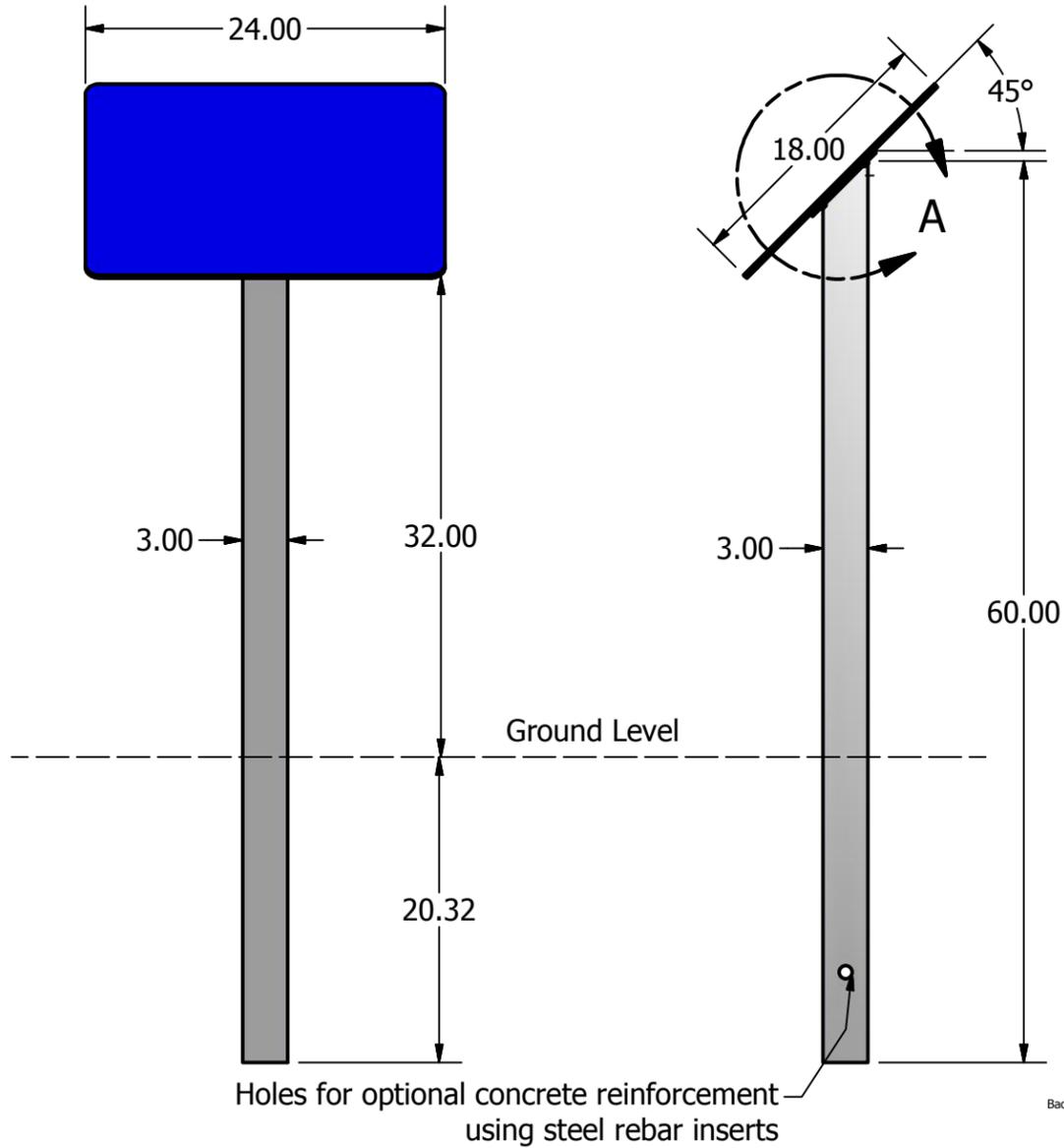
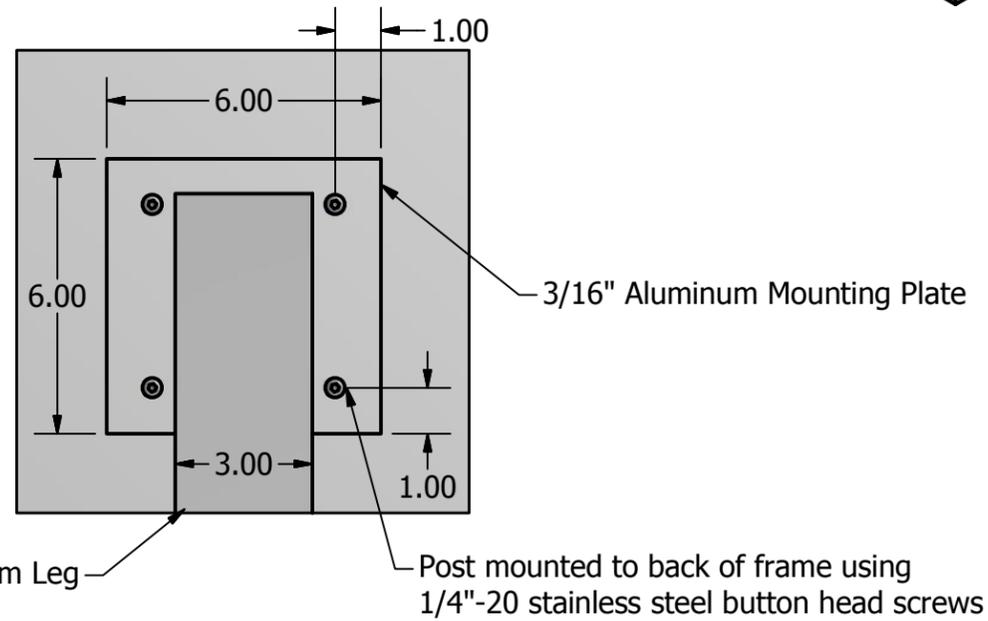
ATTACHMENT B:
INTERPRETIVE SIGN POST AND
PLATE SPECIFICATIONS



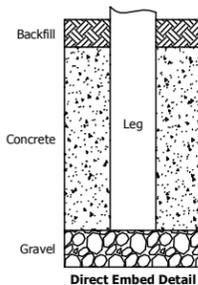
DETAIL A
SCALE 1/4



MOUNTING PLATE DETAIL
(LEG TO PLATE)



Holes for optional concrete reinforcement using steel rebar inserts



**Post and Plate
Low Impact Development**

Frame Size:
Trim Size: 24"w x 18"h
Visual Area: 24"w x 18"h
Frame Color: Black
Finish: Satin

- Approved As Is
- Make Changes and Proceed
- Make Changes and Resubmit

CUSTOMER SIGNATURE

Job #
80408

Qty:
1

Date:
11/13/2018

Rev. #:
0

Drawn By:
BMR



345 Oak Road
Gibsonia, PA 15044
Phone: 724.265.4900
800.544.8428
Fax: 724.265.4300
www.PannierGraphics.com

HARDWARE INCLUDED		
Type	QTY	Image
1/4"-20 x 3/8" Stainless Steel Button Head Screws	4 each	

* Post holes should be dug below the frost line depth. Pannier recommends height from ground to bottom of frame to be 32".

**ATTACHMENT B:
COVID-19 SAFETY**



COVID-19 SAFETY

SUBCONTRACTOR AND SUB-CONSULTANT REQUIREMENTS FOR REDUCING TRANSMISSION OF CORONAVIRUS ILLNESS ON PROJECT SITES

The Town of Cheverly places the highest value on the health, safety and wellbeing of our employees, contractors, subcontractors, and communities in which we work. We are committed to preparing and responding to the challenges the coronavirus presents to our people, our business, and our clients. We are following government and public health guidance for all our offices, as well as our field staff working on their project sites. To further define the Town of Cheverly’s expectations for our contractors and subcontractors on active project sites, we are directing our site managers to set the following work site health and safety requirements as relates to the coronavirus pandemic:

1. The Town of Cheverly will not permit workers to enter an office or project site if they are exhibiting flu-like symptoms (fever, cough, shortness of breath, etc.).

- If you are sick – stay home.
- If you begin to experience any flu-like symptoms, leave the office or project site immediately and report this to your supervisor via phone, text or email.

2. At the beginning of each shift, each worker will self-certify to their supervisor that they:

- Do not have a fever and are not experiencing any respiratory symptoms
- No members of their household or visitors to their household have travelled to any country which has resulted in a government entity instructing them to self-quarantine within the past 14 days
- No members of their household or anyone they have been in close contact with in the last 14 days is experiencing flu-like symptoms, as listed above.

3. Social Distancing (maintaining at least a six-foot social distance from other individuals) is a **PROJECT REQUIREMENT**. Hold meetings outside and limit the number of individuals inside project offices or trailers to ensure social distancing may always be maintained.

4. Each worker should wash their hands often with soap and water, or use an alcohol-based sanitizer frequently, but at least at the beginning or each shift, after using the restroom, after coughing or sneezing, and prior to eating, as per the CDC guidance. Workers should wash and/or sanitize more frequently if they handle any items that are shared or communal items such as tools and equipment, coffee pots, printers, or other shared resources. Ensure workers are provided with adequate handwashing and sanitizing supplies.



SIGNS AND SYMPTOMS of CORONAVIRUS ILLNESS

- Fever > 100.4°
- Cough
- Shortness of Breath
- Extreme Fatigue
- Sore Throat
- Flu-like Symptoms
- Loss of Sense of Smell or Taste

5. Develop and assign a rigorous cleaning schedule to ensure all frequently touched surfaces, such as desktops, counters, doorknobs and handles, computer keyboards and mice, chair arms, handrails, bathroom and kitchen surfaces, shared tools and equipment, and any other frequently touched surfaces are cleaned throughout the workday. Use cleaning products typically used in these areas and follow directions on the product labels.