

Addendum D2

re: **DUNELAND SCHOOL CORPORATION**
Chesterton Middle School Demolition
 513001.00

date: **June 17, 2024**

This Addendum forms a part of the Contract Documents for the above-referenced project and is issued in accordance with the Instructions to Bidders. Acknowledge receipt of this addendum by inserting its number in the space provided in the bid form.

ITEM	LOCATION	DESCRIPTION
A2.01	SCHEDULE	<p><u>CLARIFICATION:</u></p> <p>Demolition mobilization is scheduled to begin September 17, 2024 and is estimated to be completed by November 11, 2024. Asbestos abatement and MEPFP make safe terminations to be completed in advance of building demolition.</p>
A2.02	TABLE OF CONTENTS <i>(Document Reissued)</i>	<p><u>CHANGE:</u></p> <p>Table of Content is being reissued in its entirety as part of this addendum D2 as an integral part of the Construction Documents.</p>
A2.03	BIDDING REQUIREMENTS AND FORMS Instructions to Bidders (AIA Document A701) "Exhibit A" <i>(Exhibit Reissued)</i>	<p><u>CHANGE:</u></p> <p>"Exhibit A" is being reissued in its entirety as part of this addendum D2 as an integral part of the Construction Documents.</p>
A2.04	BIDDING REQUIREMENTS AND FORMS Background Check Certificate of Compliance <i>(Form Reissued)</i>	<p><u>CLARIFICATION:</u></p> <p>On page 1, CHANGE "CERTIFICATE OF COMPLIANCE FWCS BACKGROUND CHECK REQUIREMENT" to "CERTIFICATE OF COMPLIANCE BACKGROUND CHECK REQUIREMENT".</p>



A2.05 BIDDING REQUIREMENTS AND FORMS
Contractor's Statement of Equal Employment Opportunity Policy
(Form Reissued)

CLARIFICATION:
On page 1, line 8, CHANGE City of Berne to Duneland School Corporation. See reissued form.

A2.06 BIDDING REQUIREMENTS AND FORMS
DSC – Responsible Bidding Practices and Submission Requirements
(New Document Issued)

ADDITION:
ADD Duneland School Corporation (DSC) – Responsible Bidding Practices and Submission Requirements into the Project Manual. This shall be an integral part of the Construction Documents.

A2.07 SPECIFICATIONS
Specification Section 011500 – Scope of Work

ADDITION:
Duneland School Corporation expects approximately 600 more items of school furniture to be brought into the middle school. Primarily student desks and chairs.

A2.08 DRAWING
C4 – C7
SWPPP Plans
(New Drawings Issued)

ADDITION:
Include additional Soil Erosion Control drawings, Specifications & Details into Construction Documents.

A2.09 DRAWING

A0.1

Reference Site

Demolition Plan

(Drawing Reissued)

SPECIFICATIONS

Specification Section

012300 – Alternates

(Speciation Reissued)

BIDDING

REQUIREMENTS AND

FORMS

Supplementary Bid

Form

(Form Reissued)

ADDITION:

Install 10-foot-wide access road using #53's at depth of 12 inches. Place 5 feet away from Demolition Cut Line. See new Alternate 4 to remove stone, place topsoil and seed in March 2025.

Submitted by:
The Moake Park Group, Inc.



Jeff E. Schroeder, AIA
President

attachments: **(Document Reissued)** Table of Contents
(Exhibit Reissued) "Exhibit A" of Instructions to Bidders (AIA Document A701)
(Form Reissued) Background Check Certificate of Compliance
(Form Reissued) Contractor's Statement of Equal Employment Opportunity Policy
(New Document Issued) DSC – Responsible Bidding Practices and Submission Requirements
(Specification Reissued) Specification Section 012300 – Alternates
(Form Reissued) Supplemental Bid Form
(New Drawings Issued) C4-C7
(Drawing Reissued) A0.1

copies: All Plan Holders
513001/670

PROJECT MANUAL

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CERTIFICATION PAGE

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Notice to Bidders
Instructions to Bidders (AIA Document A701)
Supplementary Instructions to Bidders
Form 96, Contractors Bid for Public Works
Supplementary Bid Form
DSC – Responsible Bidding Practice and Submission Requirements
Background Check Certificate of Compliance
Contractor’s Statement of Equal Employment Opportunity Policy
Contractor’s Qualification Statement (AIA Document A305)
Proposal Request (AIA Document G709)
Construction Change Directive (AIA Document G714)
Change Order (AIA Document G701)
Architect’s Supplemental Instructions (AIA Document G710)
Certificate of Substantial Completion (AIA Document G704)
Application and Certificate for Payment (AIA Document G702)
Continuation Sheet (AIA Document G703)

GENERAL CONDITIONS

General Conditions of the Contract for Construction (AIA Document A201)
Supplementary Conditions
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SPECIFICATIONS

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011000	Summary
011500	Scope of Work
012300	Alternates
012900	Payment Procedures
013100	Project Management and Coordination
015000	Temporary Facilities and Controls
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DIVISION 02 – EXISTING CONDITIONS

024100	Demolition
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DIVISION 03 – CONCRETE (For Reference Only)

033000	Cast-In-Place Concrete
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DIVISION 05 – METALS (*For Reference Only*)

054000 Cold-Formed Metal Framing

DIVISION 06 – WOOD, PLASTICS, AND COMPOSITES (*For Reference Only*)

061000 Rough Carpentry

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071400 Fluid-Applied Waterproofing
072100 Thermal Insulation
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074213 Metal Wall Panels
076200 Sheet Metal Flashing and Trim
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DIVISION 09 – FINISHES (*For Reference Only*)

092116 Gypsum Board Assemblies
099100 Painting

DIVISION 31 – EARTHWORK

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DIVISION 32 – EXTERIOR IMPROVEMENTS

329200 Lawns and Grasses

END OF TABLE OF CONTENTS

EXHIBIT "A"

CIVIL

- C1 ALTA/NSPS Land Title Survey
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ARCHITECTURAL

- A0.1 Site Demolition Plan
- A1.0 Reference Tunnel / Crawlspace Plan
- A1.1 Reference First Floor Demolition Plan
- A1.20 Demolition Elevations and/or Sections
- A1.21 Demolition Elevations and/or Sections

PLUMBING

- P1.0 Plumbing Lower Level Demolition Plan
- P1.1 Plumbing First & Second Floor Demolition Plans

MECHANICAL

- M1.0 Mechanical Lower Level Demolition Plan
- M1.1 Mechanical First & Second Floor Demolition Plans

ELECTRICAL

- E1.0 Electrical Lower Level Demolition Plan
- E1.1 Electrical First & Second Floor Demolition Plans
- E2.0 Electrical Details
- E2.1 Electrical Specifications

**CERTIFICATE OF COMPLIANCE
BACKGROUND CHECK REQUIREMENT**

The undersigned contractor declares to Duneland School Corporation that the following procedure has been completed and will remain in effect for the duration of the project with regards to background checks/criminal history of employees:

1. The Contractor and all Sub-Contractors providing services to Duneland School Corporation verifies that all employees have undergone a criminal background check.
2. Employees of Contractors or Sub-Contractors providing services to Duneland School Corporation that are found to have a criminal history shall not be permitted to work on the Owner's properties.
3. Contractor and Sub-Contractors shall continually screen new hires in compliance with Duneland School Corporation Background Check Requirement.
4. Contractor shall report arrest and or filing of criminal charges against each employee within two business days of the occurrence and the disposition of such arrest or filing of charges throughout the duration of the project.
5. Non-compliance with these requirements shall be a breach of a material term of any contract and reason for termination.

Signature

Name Printed

Company Name

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CONTRACTOR'S STATEMENT OF EQUAL EMPLOYMENT OPPORTUNITY POLICY

The undersigned contractor declares to the Duneland School Corporation that the following is its policy with respect to equal employment opportunity:

1. That in the hiring of employees for the performance of work under any contract or any subcontract with the Dunland School Corporation, neither it nor any of its subcontractors, nor any of its subcontractors, nor any person acting on behalf of it or any of its subcontractors, shall, by reason of race, religion, color, sex, national origin or ancestry, discriminate against any citizen of the State of Indiana who is qualified and available to perform the work to which the employment related.
2. That neither it nor any of its subcontractors, nor any person or behalf of it or any of its subcontractors, shall in any manner, discriminate against or intimidate any employee hired for the performance of work under this contract on account of race, religion, color, sex, national origin or ancestry.

Executed at _____, _____, this _____ day of _____, 2024.
(City) (State)

CONTRACTOR

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**A RESOLUTION OF THE DUNELAND SCHOOL CORPORATION
AMENDING ITS POLICY ESTABLISHING RESPONSIBLE BIDDING
PRACTICES AND SUBMISSION REQUIREMENTS FOR
SUBMITTING BIDS TO PERFORM CONSTRUCTION WORK**

WHEREAS, the Duneland School Corporation ("School") previously adopted a Policy Establishing Responsible Bidding Practices and Submission Requirements for Submitting Bids to Perform Construction Work; and

WHEREAS, the School desires to amend the Policy as set forth in this Resolution.

THEREFORE, the School's "Responsible Bidding Practices and Submission Requirements for Submitting Bids to Perform Construction Work," is hereby amended and shall hereafter read as follows:

I. Bid Submission Requirements

Contractors proposing to submit bids on any Duneland School Corporation ("School") project estimated to be at least three hundred thousand dollars (\$300,000.00) or more must, prior to the opening of bids, submit a statement made under oath and subject to perjury laws, on a form designated by the School and must include:

- (A) A copy of a print-out of the Indiana Secretary of State's on-line records for the bidder showing that the bidder is in existence, current, and in good standing in the bidder's state of existence. The Board shall require proof, not later than ten (10) days after the bid award, that the bidder is authorized to transact business in the State of Indiana. If the bidder is an individual, sole proprietor or partnership, this subsection shall not apply;
- (B) A list identifying all previous names used by the bidder;
- (C) A list of all determinations by a court or governmental agency for violations of federal, state, or local laws including, but not limited to violations of contracting or antitrust laws, tax or licensing laws, environmental laws, the Occupational Safety and Health Act (OSHA), or federal Davis-Bacon and related Acts;
- (D) A statement on staffing capabilities, including labor sources;
- (E) Evidence of participation by the workforce performing the work in apprenticeship and training programs, applicable to the work to be performed on the project, which are approved by and registered with the United States Department of Labor's Office of Apprenticeship, or its successor organization and evidence that any applicable apprenticeship program has graduated at least five (5) apprentices in

each of the past five (5) years for each of the construction crafts the bidder will perform on the project. Evidence of graduation rates are not required for apprentice-able crafts dedicated exclusively to the transportation of material and equipment to and from the public works project.

The required evidence includes but is not limited to a copy of all applicable apprenticeship standards and Apprenticeship Agreement(s) for any apprentice(s) who will perform work on the public works project and documentation from each applicable apprenticeship program certifying that it has graduated at least five (5) apprentices in each of the past five (5) years for each construction craft the bidder will perform on the project. Additional evidence of participation and graduation requirements may be requested by the School in its discretion;

- (F) A copy of a written plan for employee drug testing that: (i) covers all employees of the bidder who will perform work on the public work project; and (ii) meets, or exceeds, the requirements set forth in IC 4-13-18-5 or IC 4-13-18-6;
- (G) The name and description of the management experience of each of the bidder's project managers and superintendents that bidder intends to assign to work on the project;
- (H) Proof of any professional or trade license required by law for any trade or specialty area in which bidder is seeking a contract award; and disclosure of any suspension or revocation within the previous five years of any professional or trade license held by the company, or of any director, office or manager employed by the bidder;
- (I) Evidence that the contractor is utilizing a surety company which is on the United States Department of Treasury's Listing of Approved Sureties; and
- (J) A written statement of any federal, state or local tax liens or tax delinquencies owed by the bidder to any federal, state or local taxing body in the last five years.

The School reserves the right to demand supplemental information from the bidder, (additional) verification of any of the information provided by the bidder, and may also conduct random inquiries of the bidder's current and prior customers. All waivers of any requirements imposed by this Policy must be approved by the Board.

II. Post-Bid Submissions from Subcontractors

All bidders shall provide a written list that discloses the name, address, and type of work for each first-tier subcontractor from whom the bidder has accepted a bid and/or intends to directly contract with or hire on any part of the public work project, including individuals performing work as independent contractors, within five (5) business days after the date the bids are due.

In addition, each such subcontractor contracting directly with the bidder shall be required to adhere to the requirements of Section I of this Policy as though it were bidding directly to the School, except that such subcontractors shall submit the required information (including the name, address, and type of work for each of their subcontractors) to the successful bidder no later than five (5) business days after the subcontractor's first day of work on the public work project and the bidder shall then forward said information to the School. Payment shall be withheld from any subcontractor contracting directly with the bidder who fails to timely submit said information until such information is submitted and approved by the School.

Upon request, the School may require any subcontractors to provide the required information (including name, address, type of work on the project and the name of the subcontractor with whom the subcontractor has a direct contract). Payments shall be withheld from any subcontractor who fails to timely submit this information until this information is submitted and approved by the School. Additionally, the School may require the successful bidder and relevant subcontractor to remove the nonresponsive or non-responsible subcontractor from the project and replace it with a responsive and responsible subcontractor.

Failure of a subcontractor to submit the required information shall not disqualify the successful bidder from performing work on the project and shall not constitute a contractual default and/or breach by the successful bidder. However, the School may withhold all payments otherwise due for work performed by a subcontractor, until the subcontractor submits the required information, and the School approves such information. The School may also require that successful bidder to remove the subcontractor from the project and replace it with a responsive and responsible subcontractor.

The disclosure of a subcontractor ("Disclosed Subcontractor") by a bidder or a subcontractor shall not create any rights in the Disclosed Subcontractor. Thus, a bidder and/or subcontractor may substitute another subcontractor ("Substitute Subcontractor") for a Disclosed

Subcontractor by giving the School written notice of the name, address, and type of work of the Substitute Subcontractor. The Substitute Subcontractor is subject to all the obligations of a subcontractor under this Ordinance.

III. Validity of Pre-Qualification Classification

Upon designation by the School that a contractor's or subcontractor's submission in anticipation of a bid is complete and timely, and upon any further consideration deemed necessary by the School, the contractor or subcontractor may be pre-qualified for future School public works projects. A contractor's classification as "qualified" shall exempt the contractor or sub-contractor from the comprehensive submission requirements contained herein for a period of twelve (12) months. Thereafter, contractors or subcontractors who are pre-qualified must submit a complete application for continuation of "pre-qualified" standing, on a form provided by the School, (also referred to as the "short form") by December 31st for the upcoming calendar year. Failure by any pre-qualified contractor or subcontractor to timely submit its complete application for continuation of "pre-qualified" standing shall result in automatic removal of the designation, effective January 1 of the upcoming year. However, the "removed" contractor or subcontractor shall still be permitted to bid on School public works projects.

Any material changes to the contractor's status, at any time, must be reported in writing within ten (10) days of its occurrence to the School. The pre-qualification designation is solely within the discretion of the School and the School specifically reserves the right to change or revoke the designation for a stated written reason(s).

Denial of pre-qualification shall be in writing and shall be forwarded to the contractor within seven (7) working days of such decision. Any contractor denied or losing pre-qualification status may request reconsideration of the decision by submitting such request in writing to the School within five (5) business days of receipt of notice of denial.

IV. Incomplete Submissions by Bidders

It is the sole responsibility of the potential bidder to comply with all submission requirements applicable to the bidder in section I above by no later than the public bid opening, subject to the School's right to request supplementation of the submission requirements in order to determine compliance. Post-bid submissions must be submitted in accordance with

section II above. Submissions deemed inadequate, incomplete, or untimely by the School may result in the automatic disqualification of the bid in the sole discretion of the School. The School reserves the right to waive any or all of the requirements of this Policy.

V. Responsive and Responsible Bidder Determination

The School, after review of complete and timely submissions, shall, in its sole discretion, after taking into account all information in the submission requirements, or information supplied by the Bidder upon request from the School after the bid opening, determine whether a bidder is responsive and responsible. The School specifically reserves the right to utilize all information provided in the contractor or subcontractor's submission or any information obtained by the School through its own independent verification of the information provided by the contractor.

VI. Certified Payroll

For projects in which the cost is at least \$300,000, the successful bidder and all subcontractors working on a public work project shall submit a certified payroll report utilizing the federal form now known as a WH-347 which must be prepared on a weekly basis and submitted to the School within ten (10) calendar days after the end of each week in which the bidder or subcontractor performed its work on the public work project. These certified payroll reports shall identify the job title and craft of each employee on the project, e.g. journeyman electrician or apprentice electrician.

The School may withhold payment due for work performed by a bidder if the bidder fails to timely submit its certified payroll reports until such time as such certified payroll reports are submitted. The School may also withhold payment due for work performed by a subcontractor if the subcontractor fails to timely submit its certified payroll reports until such time as such certified payroll reports are submitted. The School shall not withhold payment to a bidder for work performed by the bidder or for work performed by subcontractors who have submitted their certified payroll reports, because one or more other subcontractors failed to timely submit their certified payroll reports.

VII. Public Records

All information submitted by a bidder or a subcontractor pursuant to this Policy, including certified payrolls, are public records subject to review pursuant to the Indiana Access to Public Records law (IC 5-14-3).

VIII. Penalties for False, Deceptive, or Fraudulent Statements/Information

Any bidder that willfully makes, or willfully causes to be made, a false, deceptive or fraudulent statement, or willfully submits false, deceptive or fraudulent information in connection with any submission made to the School shall be disqualified from bidding on all School projects for a period of three years.

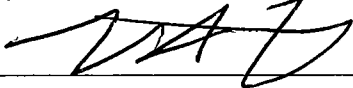
IX. Conflicting Policies

Any Policy or provision of any Policy in conflict with the provisions of this Policy is hereby repealed.

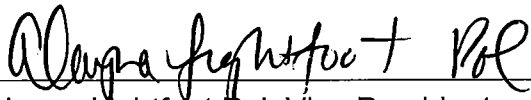
X. Severability

If any provision of this Policy is found to be invalid, the remaining provisions of this Policy shall not be affected by such a determination. The other provisions of this Policy shall remain in full force and effect without the invalid provision.

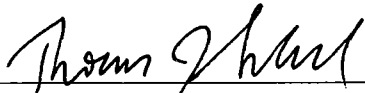
This Policy is hereby adopted by the Duneland School Corporation on the 18th day of October, 2021.



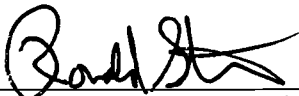
Brandon Kroft, President



Alayna Lightfoot Pol, Vice President



Tom Schnabel, Secretary



Ronald Stone, Member

Tim McGinty, Member

SECTION 012300 - ALTERNATES

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and other Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. This Section includes administrative and procedural requirements for alternates.

1.3 DEFINITIONS

- A. Alternate: An amount proposed by bidders and stated on the Bid Form for certain work defined in the Bidding Requirements that may be added to or deducted from the Base Bid amount if Owner decides to accept a corresponding change either in the amount of construction to be completed or in the products, materials, equipment, systems, or installation methods described in the Contract Documents.
 - 1. The cost or credit for each alternate is the net addition to or deduction from the Contract Sum to incorporate alternate into the Work. No other adjustments are made to the Contract Sum.

1.4 PROCEDURES

- A. Coordination: Modify or adjust affected adjacent work as necessary to completely integrate work of the alternate into Project.
 - 1. Include as part of each alternate, miscellaneous devices, accessory objects, and similar items incidental to or required for a complete installation whether or not indicated as part of alternate.
- B. Notification: Immediately following award of the Contract, notify each party involved, in writing, of the status of each alternate. Indicate if alternates have been accepted, rejected, or deferred for later consideration. Include a complete description of negotiated modifications to alternates.
- C. Execute accepted alternates under the same conditions as other work of the Contract.
- D. Schedule: A Schedule of Alternates is included at the end of this Section. Specification Sections referenced in schedule contain requirements for materials necessary to achieve the work described under each alternate.

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION

3.1 SCHEDULE OF ALTERNATES

A. Alternate No. 1: Partial Foundation Removal

1. Provide credit to remove foundation walls and footings to 3 feet below grade in lieu of full-depth removal.

B. Alternate No. 2: Concrete Crushing

1. Provide adder to crush all concrete slabs, foundations, and footings into gradation #53 and stockpile on site for the future project use.

C. Alternate No. 3: Demolition of Running Track Area

1. See limits of Alternate 3 on A0.1 Site Demolition Plan.
2. Provide adder to demolish and dispose of all items within area delineated by A0.1 Site Demolition Plan, including, but not limited to:
 - a. Running track and subbase
 - b. Concrete pavement
 - c. Fencing
 - d. Goalposts
 - e. Scoreboards
 - f. Bleachers
 - g. Press box, shed, barn, and other structures
 - h. Slabs, footings, and foundation
 - i. Light poles
 - j. Masonry Enclosures
 - k. Site Furnishings
3. Electrical make-safe shall be by others.
4. Include construction fencing. Remove fencing 60 days after demobilization.
5. Include erosion control elements and associated maintenance. Remove upon completion of your work.
6. Backfill excavations with structural fill.
7. Furnish and spread 4" of topsoil over backfilled items. Match existing grades.
8. Include seeding and blanketing at topsoiled areas.
9. Repair any landscaping damaged as a result of demolition activities.

D. Alternate No. 4: Access Road Removal

1. Provide add to remove access road along building cut line during month of March 2025. Remove stone, place topsoil and reseed disturbed area.

END OF SECTION 012300

SUPPLEMENTARY BID FORM

PROJECT NAME: **Chesterton Middle School Demolition**
BID DATE: **Thursday, June 27, 2024**
TIME: **2:00 p.m. (Central Standard Time)**
LOCATION: **Duneland School Corporation Administration Center
601 W. Morgan Ave.
Chesterton, IN 46304**

I have also received, carefully reviewed, and understand the Contract Documents prepared by:

The Moake Park Group, Inc.
7223 Engle Road, Suite 200
Fort Wayne, Indiana 46804

I have also received Addenda No(s). _____ and have included their provisions in my Bid.

BIDDER NAME: _____

ADDRESS: _____

CITY/STATE/ZIP: _____

TELEPHONE: _____ **FAX:** _____

BID AMOUNT

TOTAL BASE BID \$ _____

BID CHECKLIST **STATE FORM 96**
 FINANCIAL STATEMENT
 BID BOND
 NON-COLLUSION FORM
 SUPPLEMENTARY BID FORM
 BACKGROUND CHECK CERTIFICATE OF COMPLIANCE
 CONTRACTOR'S QUALIFICATION STATEMENT A305
 E.E.O FORM
 SUBCONTRACTOR/MANUFACTURER LIST

The successful bidder/contractor represents that by submitting a bid for this work, he has been at the job site and fully examined the existing conditions, all the contract documents, and has to his satisfaction prepared a bid representing all the work necessary to complete this project.

Bidder/Contractor also affirms that he has completely examined all bid documents and represents that there are no inconsistencies and/or ambiguities contained herein, or if there were, he has requested in writing, prior to time of bid being due, has any and all inconsistencies and/or ambiguities answered in writing from the Architect. Once the Bidder/Contractor submits his bid for this work, no changes/additions to the contract shall be requested by the Contractor due to his failure to comply with these provisions.

Clearly mark sealed bid envelope with your Name and Project(s) being bid.

NOTE: All lines and totals must be completed.

Completion Time: The undersigned here agrees, if awarded the contract, to pursue the work to substantial completion within _____ calendar days after contract execution and authorization to proceed barring strikes, civil strife, natural calamity, or other events beyond control.

ALTERNATES: (Note: Add or Deduct Must Be Indicated.)

Alternate No. 1: Partial Foundation Removal

1. Provide credit to remove foundation walls and footings to 3 feet below grade in lieu of full-depth removal.

ADD/DEDUCT: _____

Dollars \$ _____

Alternate No. 2: Concrete Crushing

1. Provide adder to crush all concrete slabs, foundations, and footings into gradation #53 and stockpile on site for the future project use.

ADD/DEDUCT: _____

Dollars \$ _____

Alternate No. 3: Demolition of Running Track Area

1. See limits of Alternate 3 on A0.1 Site Demolition Plan.
2. Provide adder to demolish and dispose of all items within area delineated by A0.1 Site Demolition Plan, including, but not limited to:
 - a. Running track and subbase
 - b. Concrete pavement
 - c. Fencing
 - d. Goalposts
 - e. Scoreboards
 - f. Bleachers
 - g. Press box, shed, barn, and other structures
 - h. Slabs, footings, and foundation
 - i. Light poles
 - j. Masonry Enclosures
 - k. Site Furnishings
3. Electrical make-safe shall be by others.
4. Include construction fencing. Remove fencing 60 days after demobilization.
5. Include erosion control elements and associated maintenance. Remove upon completion of your work.
6. Backfill excavations with structural fill.
7. Furnish and spread 4" of topsoil over backfilled items. Match existing grades.
8. Include seeding and blanketing at topsoiled areas.
9. Repair any landscaping damaged as a result of demolition activities.

ADD/DEDUCT: _____

Dollars \$ _____

Alternate No. 4: Access Road Removal

1. Provide add to remove access road along building cut line during month of March 2025. Remove stone, place topsoil and reseed disturbed area.

ADD/DEDUCT: _____

Dollars \$ _____

I have also attached the following required submissions:

Use this form if bidder is Sole Proprietor:

IN TESTIMONY WHEREOF, the Bidder, (a firm) has hereunto set its hand this _____
Day of _____, 2024.

FIRM NAME _____

(Signature)

Use this form if Bidder is a Partnership:

IN TESTIMONY WHERE OF, the Bidder, (a corporation) has caused this proposal to be signed by its
President and Secretary and affixed its corporate seal this _____ day
of _____, 2024.

CORPORATION NAME _____

President _____
(Signature)

Secretary _____
(Signature)

(SEAL)

THIS BID SHLL BE FURNISHED IN DUPLICATE, WITH BOTH COPIES ENCLOSED IN THE
SEALED BID ENVELOPE.

NON-COLLUSIVE BIDDING CERTIFICATION

No bid will be accepted that does not have this form completely executed.

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

- (a) 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 any competition;
- (b) Unless otherwise required by law, the prices which have been quoted in this bid have not been knowingly disclosed by the bidder and will not knowingly be disclosed by the bidder prior to opening, directly or indirectly, to any other bidder or to any competitor;
- (c) No attempt has been made or will be made by the bidder to insure any other person, partnership, or corporation to submit or not to submit a bid for the purpose of restricting competition;
- (d) The person signing this bid or proposal certifies that he has fully informed himself regarding the accuracy of the statements contained in this certification, and under the penalties of perjury, affirms the truth thereof, such penalties being applicable to the bidder as well as to the person signing in its behalf;
- (e) That attached hereto (if corporate bidder) is a certified copy of resolution authorizing the execution of this certificate by the signature of this bid or proposal in behalf of the corporate bidder.

(Individual)

(Corporation)

Date: _____ By: _____

This Non-Collusive Bidding Certificate must be submitted with the Bid.

END OF SUPPLEMENTARY BID FORM

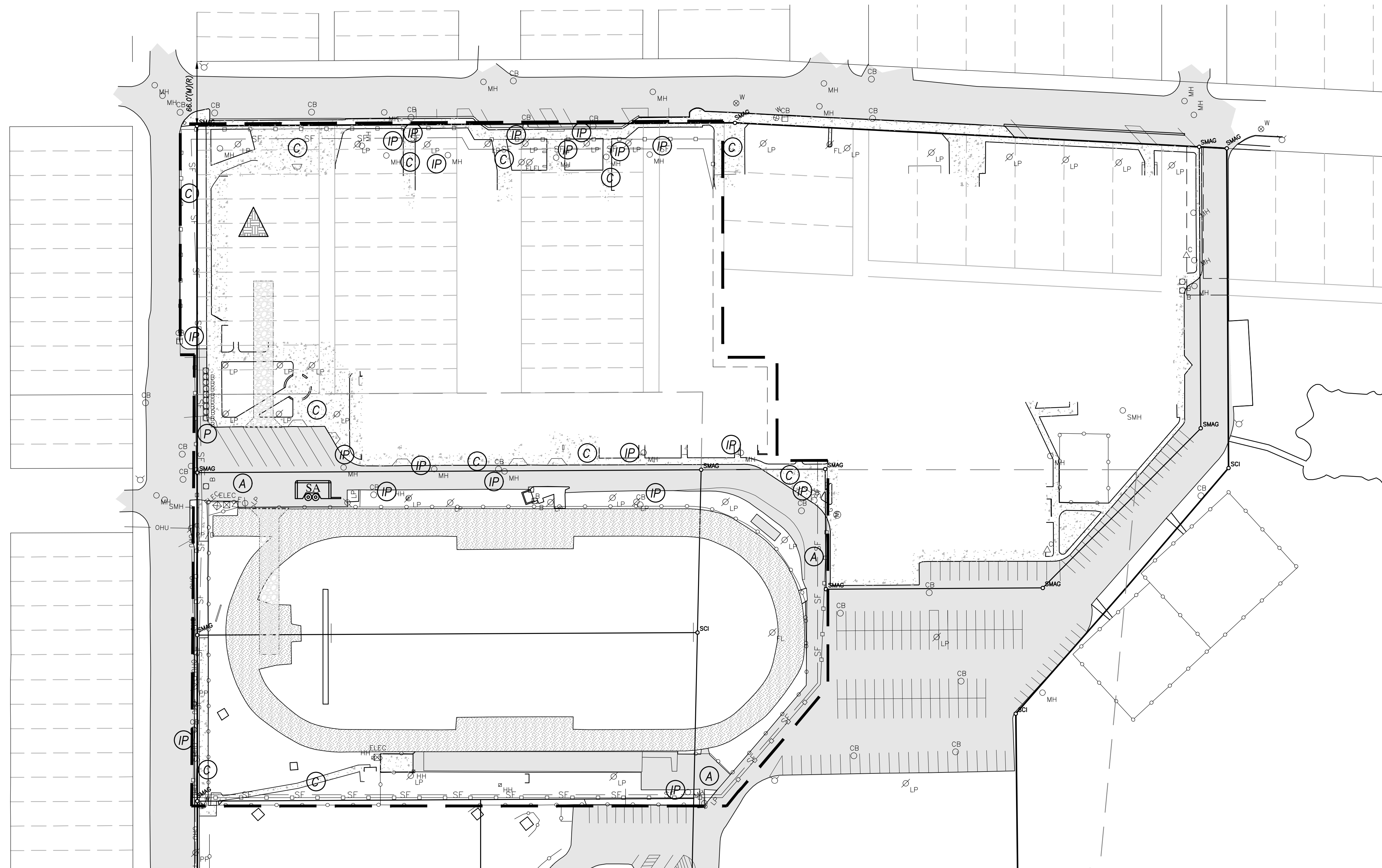
SUBCONTRACTOR AND MANUFACTURER LIST

Subcontractor List

TRADE			
Company:		Contact Name:	
Address:		Email:	
City/State/Zip		Phone:	Fax:
TRADE			
Company:		Contact Name:	
Address:		Email:	
City/State/Zip		Phone:	Fax:
TRADE			
Company:		Contact Name:	
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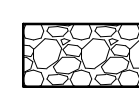









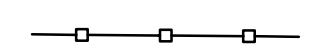


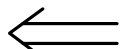
Manufacturer List

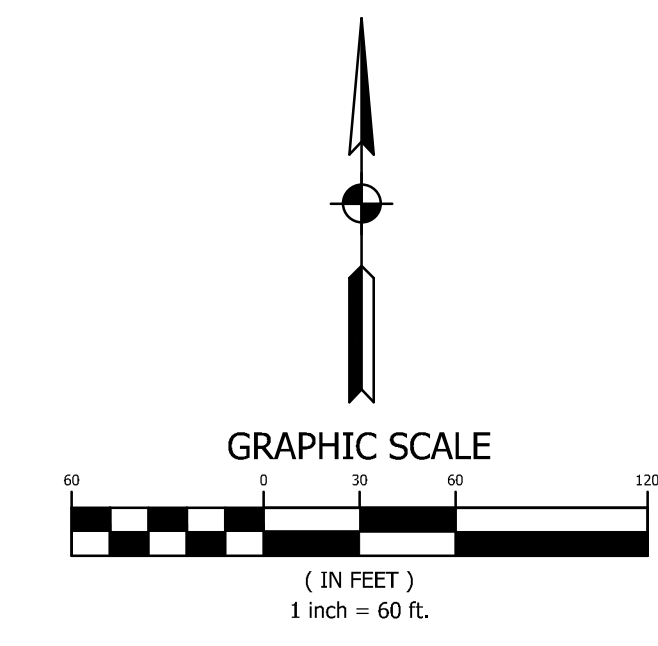
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Note
For Manholes, Inlet Protection Only Needed For Open Top Manholes.

LEGEND

- | | | |
|--|---|---|
|  Temporary Construction Entrance - Minimum length 150' (Sheet C6) |  Construction Limits |  Permit Posting Location |
|  Do Not Disturb Area - No Exceptions |  Inlet Protection Measure (Sheet C6) |  Asphalt Pavement |
|  Staging Area (Proposed) |  Silt Fencing - Required (Sheet C6) |  Compacted Gravel Surface |
|  Topsail Stockpile Location (Proposed)
See Sheet C6 Contractor may move Stockpile Location to Suit Construction Needs. |  Construction Fencing (Sheet C6) |  Concrete |
| |  Erosion Control Blanket (Sheet C6) |  Proposed Sheet Flow Direction |



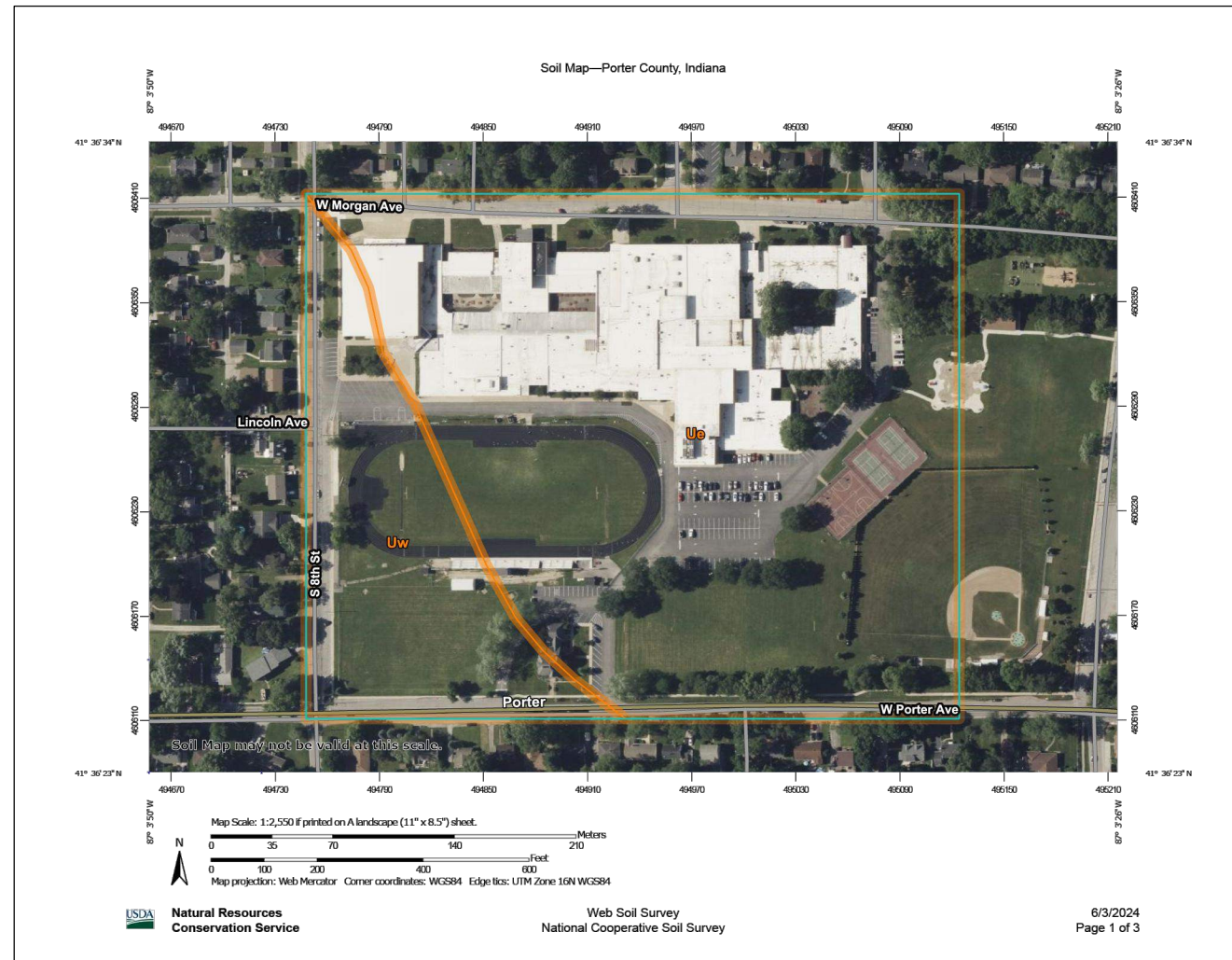
CONSTRUCTION / STORMWATER POLLUTION PREVENTION PLAN

SECTION A: CONSTRUCTION PLAN ELEMENTS

- A1 PLAN INDEX SHOWING LOCATIONS OF REQUIRED ITEMS**
This sheet.
- A2 VICINITY MAP DEPICTING THE PROJECT SITE LOCATION IN RELATIONSHIP TO LOCAL LANDMARKS, TOWNS, AND MAJOR ROADS**
See Cover Sheet for a vicinity or location map.
- A3 NARRATIVE OF THE NATURE AND PURPOSE OF THE PROJECT**
The building which formerly housed the Chesterton Middle School is being renovated into a YMCA. A Part of the existing building will be demolished, the remainder will be renovated.
- A4 LATITUDE AND LONGITUDE TO THE NEAREST FIFTEEN (15) SECONDS**
41° 35' 30" N 87° 03' 42" W
- A5 LEGAL DESCRIPTION OF THE PROJECT SITE**
See Sheet C1 for Parcels. Legal Description from the below listed Documents.
D.R. 111, PG. 396 (PARCEL (b))
D.R. 112, PG. 80
D.R. 151, PG. 62 (PARCEL (a))
D.R. 161, PG. 361 (PARCEL (f))
D.R. 201, PG. 100 (PARCEL (h))
D.R. 235, PG. 260 (EXCEPTION TO PARCEL (c))
D.R. 235, PG. 208 (PARCEL (c))
D.R. 480, PG. 533 (EXCEPTION TO PARCEL (c))
- A6 11 X 17 - INCH PLAT SHOWING BUILDING LOT NUMBERS/BOUNDARIES AND ROAD LAYOUT/NAMES**
See Sheet C4.
- A7 BOUNDARIES OF THE ONE HUNDRED(100) YEAR FLOODPLAINS, FLOODWAY FRINGES, AND FLOODWAYS**
According to the National Flood Insurance Program, Map 18127C013D, effective date 09/30/2015, the site is located in Zone X, area of minimal flooding. See this sheet for Flood Map.
- A8 LAND USE OF ALL ADJACENT PROPERTIES**
• North - Morton Ave.; Residential
• South - Porter Ave.; Residential
• East - 5th St.; Residential
• West - 8th St.; Residential
- A9 IDENTIFICATION OF A U.S. EPA APPROVED OR ESTABLISHED TMDL**
According to the IDEM Indiana Impaired Waters Online e303d Tool, the site is located in the Little Calumet River Watershed E. coli TMDL.
- A10 NAME(S) OF THE RECEIVING WATER(S)**
According to IDEM's Indiana HUC Finder, the tertiary receiving waters for the pre- and post-construction runoff are the Little Calumet-Gallatin Subbasin (HUC8-04040001); the secondary receiving waters is/are East Arm Little Calumet River watershed (HUC 10-0404000104); the primary receiving waters is/are Coffee Creek-East Arm Little Calumet River Sub-Watershed (HUC12-040400010403). (<https://www.in.gov/Idem/cleanwater/resources/indiana-huc-finder/>).
- A11 IDENTIFICATION OF DISCHARGES TO A WATER ON THE CURRENT 303d LIST OF IMPAIRED WATERS AND THE POLLUTANT(S) FOR WHICH IT IS IMPAIRED**
According to the IDEM Indiana Impaired Waters Online e303d Tool, the site is located in the Little Calumet River Watershed TMDL which has been approved by the U.S. EPA for TMDL requirements established for E. coli and nutrients and sediment that impact the biotic community. Other potential pollutant sources in the watershed include nonpoint sources from agriculture and pastures, land application of manure, and rural run-off, as well as point sources from straight pipe discharges, home sewage treatment system disposal, municipal separate storm sewer system conveyances, and combined sewer overflow outlets. Some of the recommended solutions to address the impairments include stormwater controls, point source controls, manure management, and habitat improvements.
- A12 SOIL MAP OF THE PREDOMINANT SOIL TYPES**
See this sheet for the Soil Map. The site is composed of Ue and Uw soil types.
- A13 IDENTIFICATION AND LOCATION OF ALL KNOWN WETLANDS, LAKES, AND WATER COURSES ON OR ADJACENT TO THE PROJECT SITE (CONSTRUCTION PLAN EXISTING SITE LAYOUT)**
According to the U.S. Fish and Wildlife Service National Wetland Inventory Mapper, there are no wetlands, lakes, or water courses located on the site. See this sheet for a map of this project site from the National Wetlands Inventory.
- A14 IDENTIFICATION OF ANY OTHER STATE OR FEDERAL WATER QUALITY PERMITS OR AUTHORIZATIONS THAT ARE REQUIRED FOR CONSTRUCTION ACTIVITIES**
There are no other known applicable permit items at this time.
- A15 IDENTIFICATION AND DELINEATION OF EXISTING COVER, INCLUDING NATURAL BUFFERS**
The site for this project consists of an existing School building. See Sheet C1 for an identification of existing cover.
- A16 EXISTING TOPOGRAPHY AT A CONTOUR INTERVAL APPROPRIATE TO INDICATE DRAINAGE PATTERNS**
See Sheet C1 for existing topography.
- A17 LOCATION(S) OF WHERE RUN-OFF ENTERS THE PROJECT SITE**
In the existing condition, most stormwater run-off enters the project site from rooftops and other impervious areas.
- A18 LOCATION(S) OF WHERE RUN-OFF DISCHARGES FROM THE PROJECT SITE PRIOR TO LAND DISTURBANCE**
The Existing Site drains into the Chesterton Stormwater System.
- A19 LOCATION OF ALL EXISTING STRUCTURES ON THE PROJECT SITE**
See Sheet C1 for location of existing structures on the project site.
- A20 EXISTING PERMANENT RETENTION OR DETENTION FACILITIES, INCLUDING MANMADE WETLANDS, DESIGNED FOR THE PURPOSE OF STORMWATER MANAGEMENT**
There are no existing permanent retention or detention facilities, including manmade wetlands, designed for the purpose of stormwater management located on this project site.
- A21 LOCATIONS WHERE STORMWATER MAY BE DIRECTLY DISCHARGED INTO GROUND WATER, SUCH AS ABANDONED WELLS, SINKHOLES, OR KARST FEATURES**
There are no other known sensitive areas, karst features (sinkholes), drywells, abandoned wells, or other areas where stormwater may be directly discharged to groundwater.
- A22 SIZE OF THE PROJECT AREA EXPRESSED IN ACRES**
Total Project Area: +/- 20.3 ac.
- A23 TOTAL EXPECTED LAND DISTURBANCE EXPRESSED IN ACRES**
Construction Site Area to be disturbed: +/- 9.66 ac.
- A24 PROPOSED FINAL TOPOGRAPHY**
See Sheet C1 (MATCH EXISTING).
- A25 LOCATIONS AND APPROXIMATE BOUNDARIES OF ALL DISTURBED AREAS**
See Sheets C4
- A26 LOCATION, SIZE, AND DIMENSIONS OF ALL STORMWATER DRAINAGE SYSTEMS, SUCH AS CULVERTS, STORM SEWERS, AND CONVEYANCE CHANNELS**
See Sheet C1 (MATCH EXISTING).
- A27 LOCATIONS OF SPECIFIC POINTS WHERE STORMWATER AND NON-STORMWATER DISCHARGES WILL LEAVE THE PROJECT SITE**
See Sheet C1 (MATCH EXISTING).
- A28 LOCATION OF ALL PROPOSED SITE IMPROVEMENTS, INCLUDING ROADS, UTILITIES, LOT DELINEATION AND IDENTIFICATION, PROPOSED STRUCTURES, AND COMMON AREAS**
See Sheet P1.1 for demolished space of the building. No Site Improvements to occur as of this Demolition Phase.
- A29 LOCATION OF ALL ON-SITE STOCKPILES AND BORROW AREAS**
Silt fence is proposed along any and all soil stockpiles to include those that are not listed in the plan sheets in order to prevent sediment-laden runoff from leaving the site. Sedimentation treatment will include but not be limited to filter socks, silt fencing, erosion control blankets and reseeded. Soil excavation and fill operations will take place to meet proposed grades. Topsoil will be separated and stockpiled prior to re-spread. A detail and specification for soil stockpiles has been featured in this section. Proposed locations of soil stockpiles (if applicable) can be found on Sheet C4 of the attached construction plansheets.
- A30 CONSTRUCTION SUPPORT ACTIVITIES THAT ARE EXPECTED TO BE PART OF THE PROJECT**
Construction support activities include a temporary construction entrance, staging/material storage area. Suggested locations for these support activities can be found on Sheet C4 of the corresponding construction plansheets.
- A31 LOCATION OF ANY IN-STREAM ACTIVITIES THAT ARE PLANNED FOR THE PROJECT INCLUDING, BUT NOT LIMITED TO STREAM CROSSINGS AND PUMP AROUNDINGS**
There are no areas where activities are anticipated that will require contractors to cross or work within waterbodies (creeks and streams) and/or wetlands to perform work on the project site.

SECTION B: STORMWATER POLLUTION PREVENTION PLAN - EROSION AND SEDIMENT CONTROL/PROJECT SITE MANAGEMENT

- B1 DESCRIPTION OF THE POTENTIAL POLLUTANT GENERATING SOURCES AND POLLUTANTS, INCLUDING ALL POTENTIAL NON-STORMWATER DISCHARGES**
• Potential Sources of Sediment Pollution to Stormwater Runoff:
- Clearing and grubbing operations
- Grading and site excavation operations
- Vehicle tracking
- Topsoil stripping and stockpiling
- Landscaping operations
• Potential pollutants and sources, other than sediment, to stormwater runoff:
- Combined Staging Areas - small fueling activities, minor equipment maintenance, sanitary facilities, and hazardous waste storage
- Material Storage Area - general building materials, solvents, adhesives, paving materials, paints, aggregates, trash, etc.
- Construction Activity - building demolition, clearing and grubbing, track removal.
• Historical/Previous-Use Pollutants:
- There are no known historical or potential previous-use pollutants on this site.
- B2 STABLE CONSTRUCTION ENTRANCE LOCATIONS AND SPECIFICATIONS**
See Sheet C4 for the location of the temporary construction entrance. See Construction Entrance Detail on Sheet C6.
- B3 SPECIFICATIONS FOR TEMPORARY AND PERMANENT STABILIZATION**
See Sheets C6-C7.
- B4 SEDIMENT CONTROL MEASURES FOR CONCENTRATED FLOW AREAS**
The control measures for this area inlet protection for each of the inlets.
- B5 SEDIMENT CONTROL MEASURES FOR SHEET FLOW AREAS**
Silt fence is being prescribed as the primary perimeter control to help maintain natural areas and prevent soil erosion and sedimentation from leaving the site. See Sheet C4 for prescribed locations for silt fence and double-layered silt fence (if applicable). These locations are not "all-inclusive" and adjustments may need to be made based on field conditions and SWPPP inspection recommendations. Silt fence should be installed and maintained per the details outlined in this section. See Detail on Sheet C6.
- B6 RUN-OFF CONTROL MEASURES**
There are no prescribed run-off control measures (diversion, rock check dams, slope drains, etc.) for this site.
- B7 STORMWATER OUTLET PROTECTION LOCATIONS AND SPECIFICATIONS**
In the Proposed Condition, stormwater run-off from this site will discharge directly to the Chesterton Storm Sewer. Therefore, no outlet protection is being prescribed.
- B8 GRADE STABILIZATION STRUCTURE LOCATIONS AND SPECIFICATIONS**
Erosion control blankets shall be installed along all major slopes on a slope stabilization BMP. Please see Sheet C4 for locations where Erosion Control Blankets are prescribed (if applicable). These are not all inclusive and additional Erosion Control Blanket may need to be installed in areas where unstable slopes are occurring. See Sheet C6 for detail.
- B9 DEWATERING APPLICATIONS AND MANAGEMENT METHODS**
All excess water for the dewatering will be pump through a filter bag or equivalent and into the near by curb inlet.
- B10 MEASURES UTILIZED FOR WORK WITHIN WATERBODIES**
There are no areas where activities are anticipated that will require contractors to cross or work within waterbodies (creeks and streams) and/or wetlands to perform work on the project site.
- B11 MAINTENANCE GUIDELINES FOR EACH PROPOSED TEMPORARY STORMWATER QUALITY MEASURE**
See Detail(s) on Sheets C6.
- B12 PLANNED CONSTRUCTION SEQUENCE DESCRIBING THE RELATIONSHIP BETWEEN IMPLEMENTATION OF STORMWATER QUALITY MEASURES IN RELATION TO LAND DISTURBANCE**
A list of land-disturbing activities as well as an approximate Construction Sequence can be found on this Sheet. Please note, the construction sequence is only a proposed schedule. Actual construction schedule must remain flexible as there is no way to predict delays.
- B13 PROVISIONS FOR EROSION AND SEDIMENT CONTROL ON INDIVIDUAL BUILDING LOTS REGULATED UNDER THE PROPOSED PROJECT**
There are no provisions for single residential building lots since the project site is a single industrial lot.
- B14 MATERIAL HANDLING AND SPILL PREVENTION AND SPILL RESPONSE PLAN MEETING THE REQUIREMENTS IN 327 IAC 2-6.1**
This Sheet.



USDA SOIL SURVEY MAP

ABONMARCHÉ

3.6 Spill Prevention and Control Plan (B14)

Construction materials that may be located onsite include vehicle lubricants, oil, vehicular fuels, concrete wash-out, acids, curing compounds, paints, mulch, pesticides, herbicides, fertilizer, and trash. Any toxic waste materials are to be properly disposed of in an approved manner in accordance with local, state, and federal laws.

These materials should be stored in a manner that prevents or minimizes the chance that a spill will reach soils, groundwater or surface water. It is NOT anticipated that a fuel or other chemical tank will be kept onsite. Contractor shall have absorption spill clean-up materials and spill kits available in the storage areas at all times and utilize secondary containment by means of installing an impermeable berm around the construction site refueling and maintenance areas, and oil and chemical drums storage areas, to prevent stormwater run-on, runoff, and to contain spills. Contractor shall select and designate an area onsite for these areas and utilize drip pans or absorbent pads during vehicle and equipment maintenance work. Contractor shall inspect these areas daily when in use, and weekly when not in use. Materials stored inside shall be placed on a minimal to prevent a spill from migrating outside the confines of the building or into any drain leaving the building and discharging to soils, groundwater or surface water.

If a spill does occur, then the spill must be contained immediately utilizing appropriate response techniques including diking and absorbents. Clean up of the spill should occur as soon as possible once the spill is stabilized and contained. Spills shall be cleaned up using acceptable methods such as, absorbents on absorbent surfaces or removal of contaminated soils. In all cases, cleanup standards must adhere to local, state and federal requirements. Failure to clean up any spill is a violation of the Indiana State Spill Rule (327 IAC 2-6.1), which is enforced by the Indiana Department of Environmental Management (IDEM). Certain spills must be reported to the local response agency, Local Emergency Planning Committee and/or IDEM. Initial calls should be made to the 911 system if the spill exceeds reportable quantities or is a threat to public safety. The local response will typically notify North Township Fire Department (219-759-3321), IDEM (1-888-233-7475) or the National Response Center (1-800-424-8882) can typically assist with information on clean up operations or clean up Contractors. The following information will likely need to be provided: time of spill, location of spill, material, source of spill, approximate volume and length of spillage, weather conditions at time of spill, personnel present at time of spill, and all action taken for post spill cleanup.

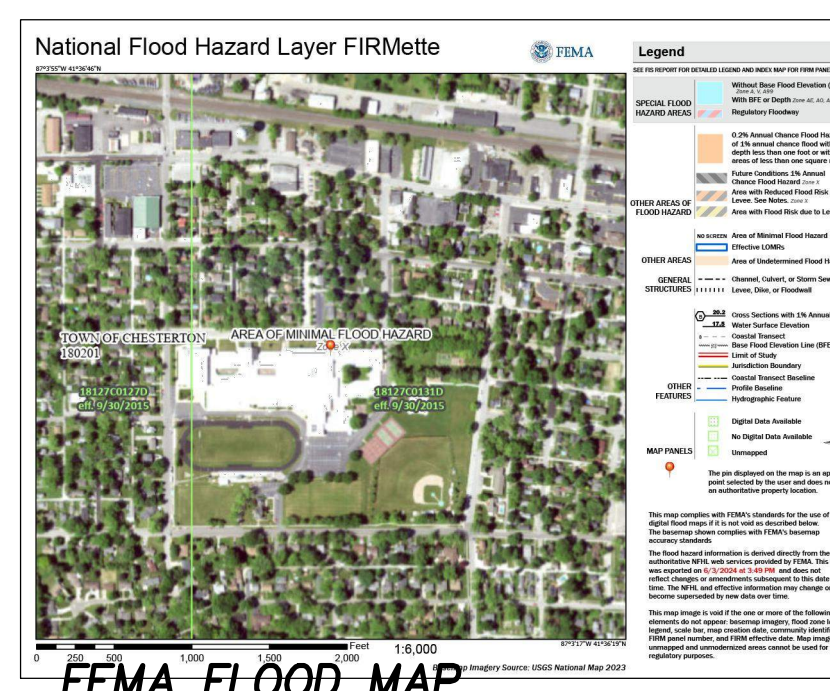
Small spills and leaks of these materials onto non-paved areas shall be shoveled into containers or dumpsters and be properly disposed of in an approved manner in accordance with local and state laws. All spills that occur near an inlet to the stormwater conveyance system must have "curbing" implemented immediately. "Curbing" is the use of a barrier (absorbent material) which prevents the spill from making contact with the stormwater conveyance system or stormwater runoff. Contractor shall contact a Waste Recovery Agency immediately for removal of contaminants and coordination of monitoring the site during cleanup until all the hazardous material has been removed. Contractor shall cooperate with IDEM and the local township during and after the spill to ensure all required cleanup and filing reports are properly submitted.

The Developer/Owner shall be continually informed of any contamination concerns occurring on the site. The Construction Manager shall keep a list onsite of qualified Contractors for spill remediation. A spill prevention and control plan should be developed and utilized prior to any emergency. All site personnel, including maintenance employees, shall be made aware of this plan and proper spill prevention and remediation techniques. All materials used to absorb spills shall be properly disposed of in an approved manner in accordance with local and state laws. Do not flush spill materials with water unless directed to do so by a governing agency. It is important that all manufacturer's instructions be followed when using or applying oil fertilizers, herbicides, and pesticides.

MATERIAL HANDLING & SPILL PREVENTION RESPONSE PLAN (B14)

SECTION C: STORMWATER POLLUTION PREVENTION PLAN - POST-CONSTRUCTION

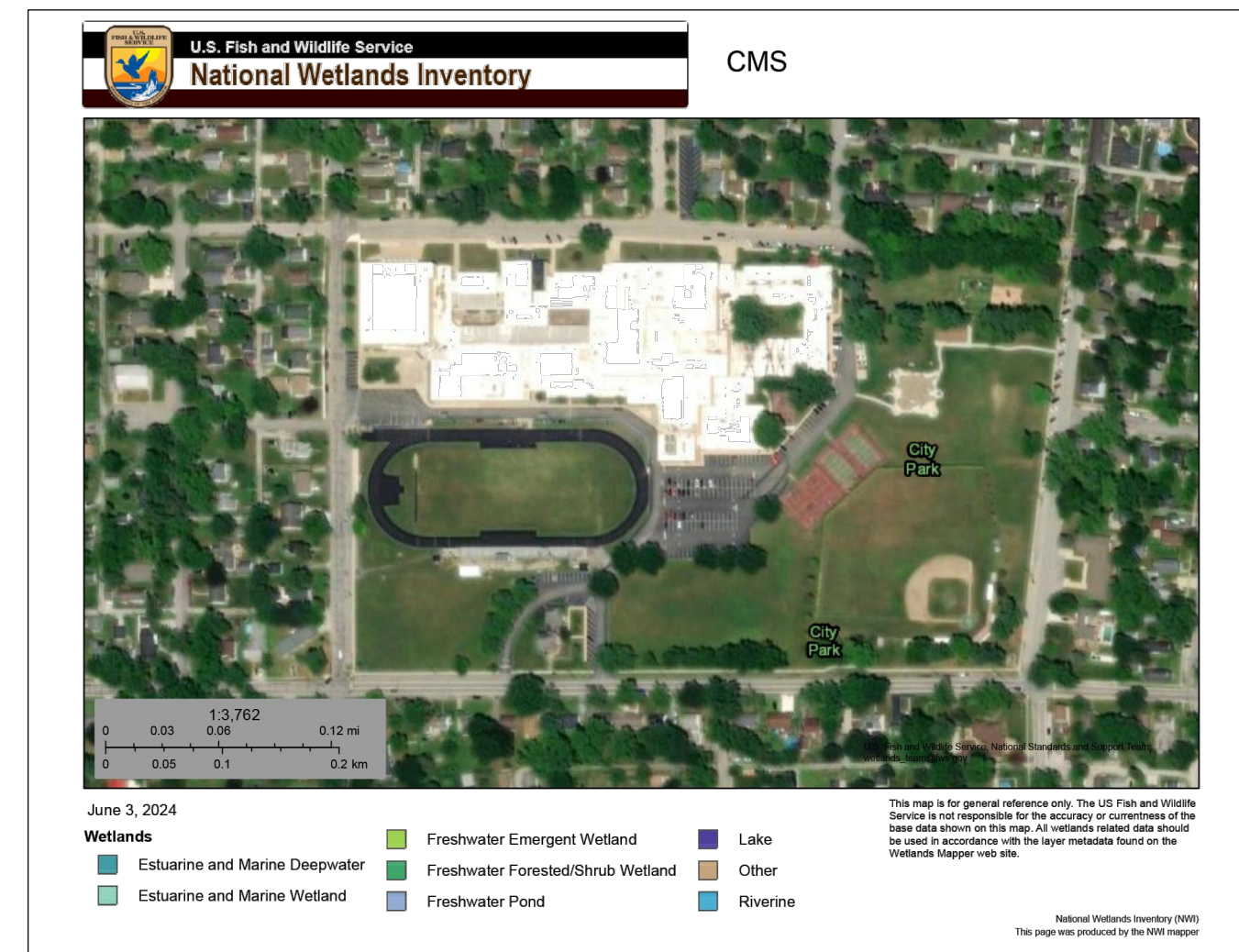
- C1 DESCRIPTION OF POLLUTANTS AND THEIR SOURCES ASSOCIATED WITH THE PROPOSED LAND USE**
Potential pollutants associated with the proposed land use include filter and trash, sedimentation from asphalt parking, automotive waste from streets and alleys. This list is neither exhaustive nor all-inclusive.
- C2 DESCRIPTION OF PROPOSED POST-CONSTRUCTION STORMWATER MEASURES**
Areas of vegetation at the project will provide filtration and infiltration of stormwater runoff. The vegetated areas will also reduce thermal pollutants in the runoff. The stormwater quality measures at the project will be maintained by the owner.
- C3 PLAN DETAILS FOR EACH STORMWATER MEASURE IMPLEMENTATION**
See Details on Sheets C4
- C4 SEQUENCE DESCRIBING STORMWATER MEASURE IMPLEMENTATION**
Following construction, erosion control measures shall be inspected and maintained until permanent vegetation has been established on all disturbed areas and all construction is complete. Individual erosion control measures must be maintained until sufficient vegetation has been established to prevent flows of sediment or sediment laden stormwater flows into the stormwater conveyance system.
- C5 MAINTENANCE GUIDELINES FOR POST-CONSTRUCTION STORMWATER MEASURES**
The stormwater quality measures of the project will be maintained by the owner as described in the Operations and Maintenance Manual. However, the municipality may elect to address deficiencies and repairs and charge the responsible party. See Operations and Maintenance Manual.
- A. A self-monitoring program that includes the following must be implemented at all permitted project sites.
- A trained individual shall perform a written evaluation of the project site a minimum of one time per week and by the end of the next business day following each measurable storm event.
 - The evaluation must address the maintenance of existing stormwater quality measures to ensure they are functioning properly and identify additional measures necessary to remain in compliance with all applicable statutes and rules.
 - Written evaluation reports must include:
 - The name of the individual performing the evaluation;
 - The date of the evaluation;
 - Problems identified at the project site; and
 - Details of corrective actions recommended and completed.
 - All evaluation reports for the project site must be made available to the MS4 operator or other designated entity within 48 hours of a request.
 - Evaluation reports must be maintained for a period of two years from date of NOT.
 - All evaluation reports will be scanned and submitted in electronic format (CD-ROM) to the town no later than 90 days from the date of NOT.
- B. The failure to file self-monitoring reports required by this section may be prosecuted through the Ordinance Violations Bureau established by § 1-13 of this code of ordinances. Dry weather violations of this section shall be punishable by a fine of \$100 for a first offense. Second and subsequent dry weather violations shall be punishable by a fine of \$250. Each day that a violation is found to exist shall constitute a separate violation. Violations that are not remedied after a second or subsequent violation may result in stop-work order. (Ord. 2006-04, passed 2-13-2006; Ord. 2008-06, passed 4-28-2008)
- C6 ENTITY THAT WILL BE RESPONSIBLE FOR OPERATION AND MAINTENANCE OF THE POST-CONSTRUCTION STORMWATER MEASURES**



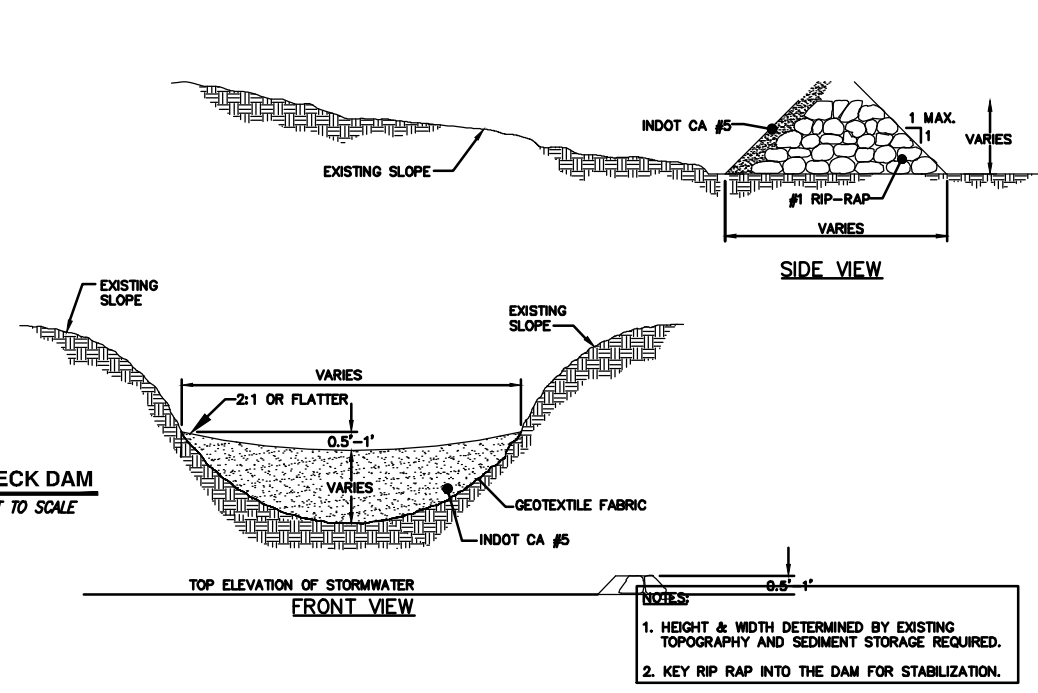
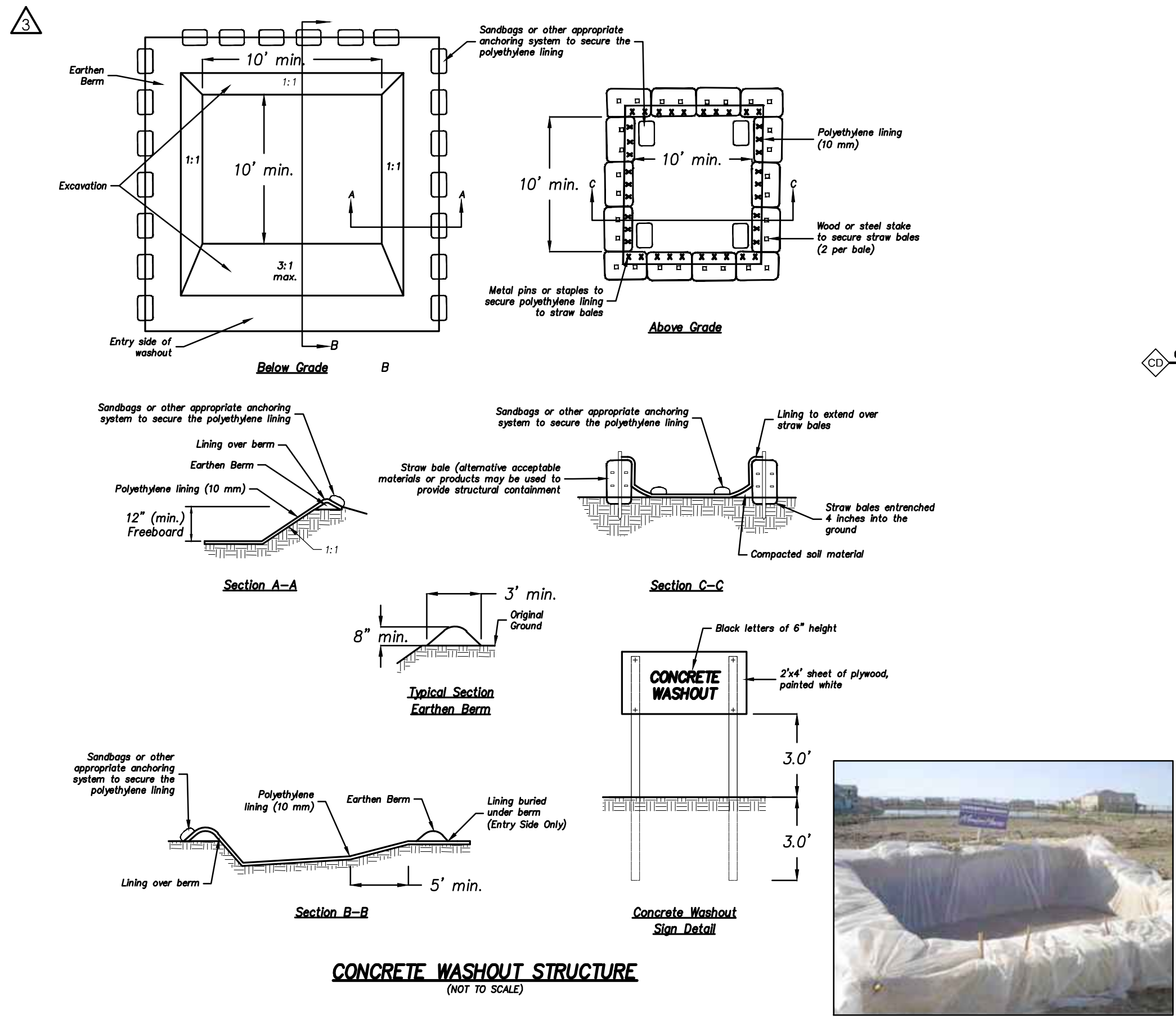
FEMA FLOOD MAP

PROJECT GENERAL CONSTRUCTION SCHEDULE

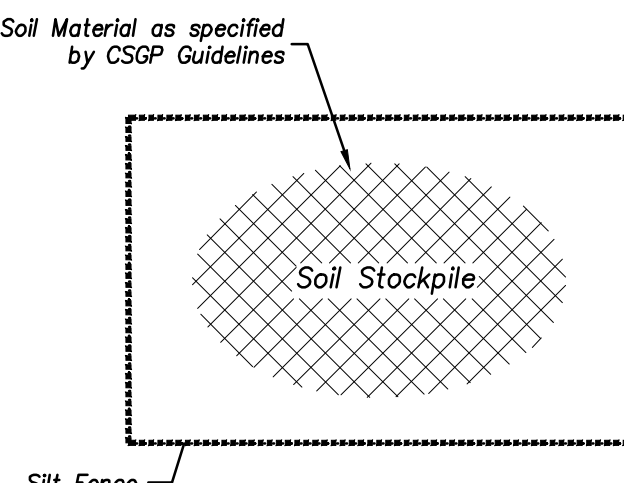
- Contractor to schedule a Pre-Construction Meeting with the Town of Chesterton MS4 Coordinator (219-728-1336) District prior to commencing any land disturbing activities.
- Required posting materials are to be posted at or near the entrance to the development. The Notice of Intent, location of the Stormwater Pollution Prevention Plan and SWPPP, and Site Contact Information are required to be posted. The materials must be current and legible at all times.
- Temporary construction entrance must be installed immediately. Minimum length of the temporary construction entrance is 150 feet. A detail is provided on Sheet C4.
- Areas for staging (material stockpiles, equipment, etc.), material storage areas, and topsoil stockpile areas are to be field established at the project (i.e., install safety fencing around areas). Each area shall be properly protected and maintained at all times during construction. Proposed locations are shown on Sheet C4. Refer to the Legend in the lower right hand corner of the Sheet for the symbols representing each of the measures.
- Contact Indiana Underground Plant Protection Systems, Inc. (INDIANA 811) for underground utility locations. (1-800-382-5544) prior to commencing earthmoving activities.
- Stripping and stockpiling of topsoil onsite at a location determined by contractor and/or the project owner will occur. Install perimeter measures adjacent to the stockpile. Refer to Sheet C6 for a Stockpile Detail. A proposed location is shown on Sheet C4.
- Commence earthwork operations. Refer to Sheet C4 for the location of the required fencing. Install silt fencing as needed basis during construction at the project. This step will involve the installation of the stormwater structures, storm pipes, gas, electric, sanitary sewer, and water. Areas disturbed during the extension/installation of gas, electric, and water are to be stabilized as soon as the installations are completed (seeding in vegetated areas, pavement or gravel in other areas). Areas which are at final grade or that will remain idle for a period of 15 days or more are to be stabilized. Refer to Sheet C7 for Surface Stabilization Measures. Measures such as Hydroseeding (surface stabilization permanent) and Erosion Control Blankets (repairs, permanent) will be used at the project. An Installation Detail for Erosion Control Blanket is provided in the bottom center of Sheet C6. A general hydroseeding detail is provided on Sheet C7.
- Stormwater inspections are to occur at the minimum of weekly and within one business day of each 0.50 inch or greater event. Rainfall amounts can be obtained at: <https://www.cocorahs.org/ViewData/ListDailyPrecipReports.aspx>. Maintenance of all installed erosion control measures are to occur during each of the inspections and include but are not limited to the following items:
 - Repair silt fencing if damaged. If silt is 1/2 the height of the fabric, remove silt and replace/repair fence as needed.
 - Verify that areas are being stabilized as they reach final grade or if they have remained idle for a period of 15 days or more.
 - Trash collections are occurring regularly. This includes scrap construction materials, cardboard, plastic sheeting, empty containers (buckets, cans, etc.), styrofoam, fast food containers/packaging, plastic bags and bottles, cans, and related trash/debris.
- Refer to Sheets C6 - C7 for Details for the above measures. General maintenance guidelines are supplied with each of the details.
- When all final grading has been completed, apply permanent surface stabilization measures on all remaining disturbed areas. Remove temporary erosion control measures and any sediment adjacent to them, and stabilize those areas as needed with permanent seeding or erosion control blankets. Refer to Sheets C7 (Seeding) and C6 (Erosion Control Blanket). Erosion control blanket is required for restabilization of failure areas of the basin banks.
- A trash/debris collection is to be made of the overall project. All excess construction materials, erosion control products (silt fencing, inlet protection measures, etc.), general trash, buckets, cardboard, plastic sheeting, pallets and related are to be collected and removed from the project. Collected trash and debris are not to be burned, buried, or dumped on vacant areas of the development.
- When all construction has been completed, all earthmoving activities have been completed, and all areas meet the minimum requirements for permanent surface stabilization, a Notice of Termination is to be submitted to IDEM. Minimum stabilization requirements are currently 70% uniformly dense coverage. The Notice of Termination form can be obtained at: <http://www.in.gov/Idem/5157.htm#wq-stormwater>



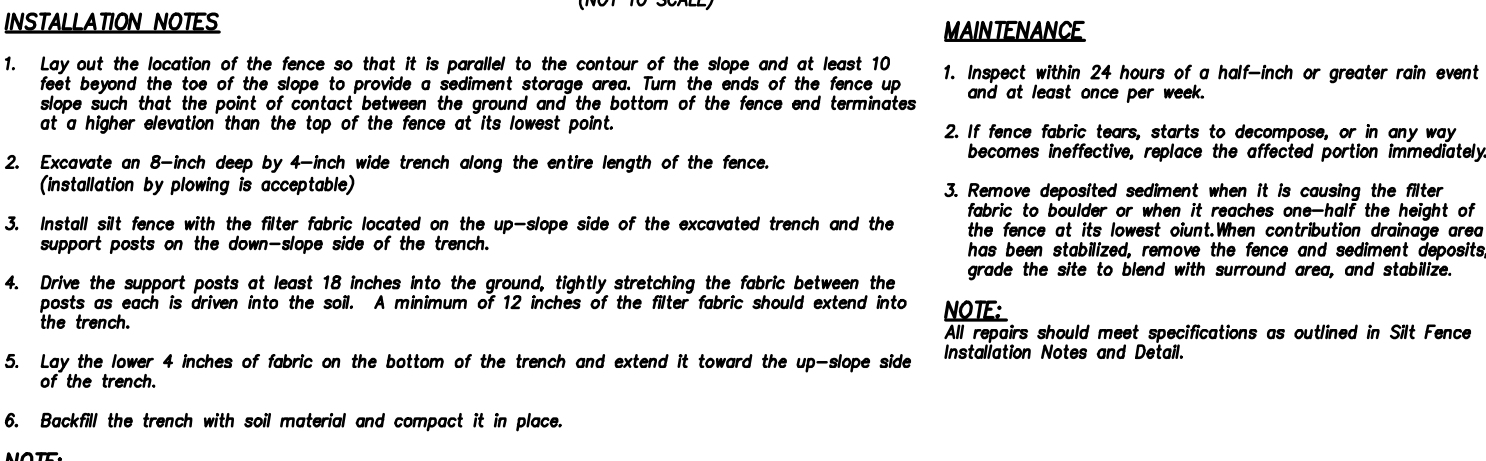
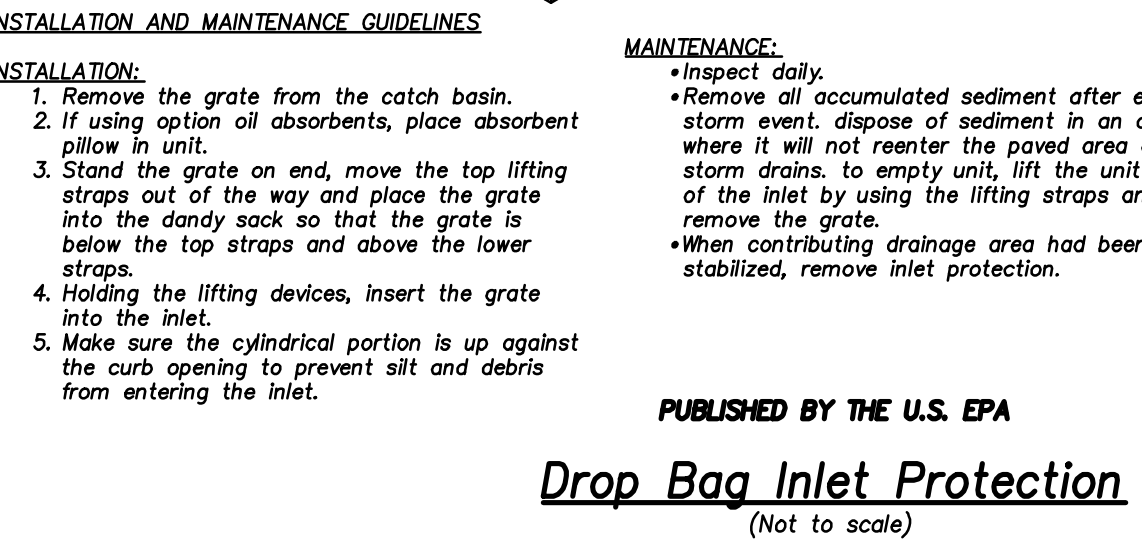
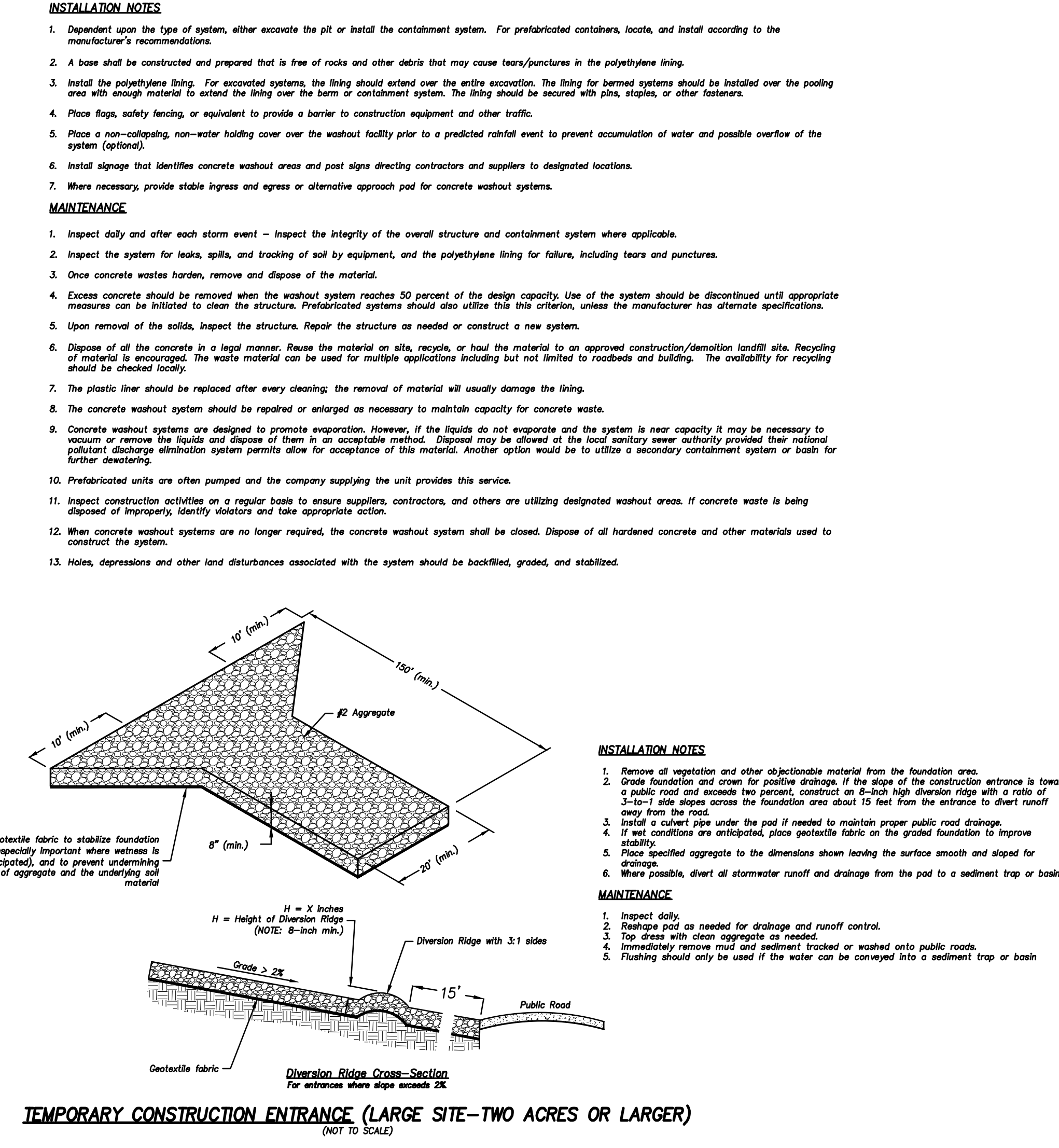
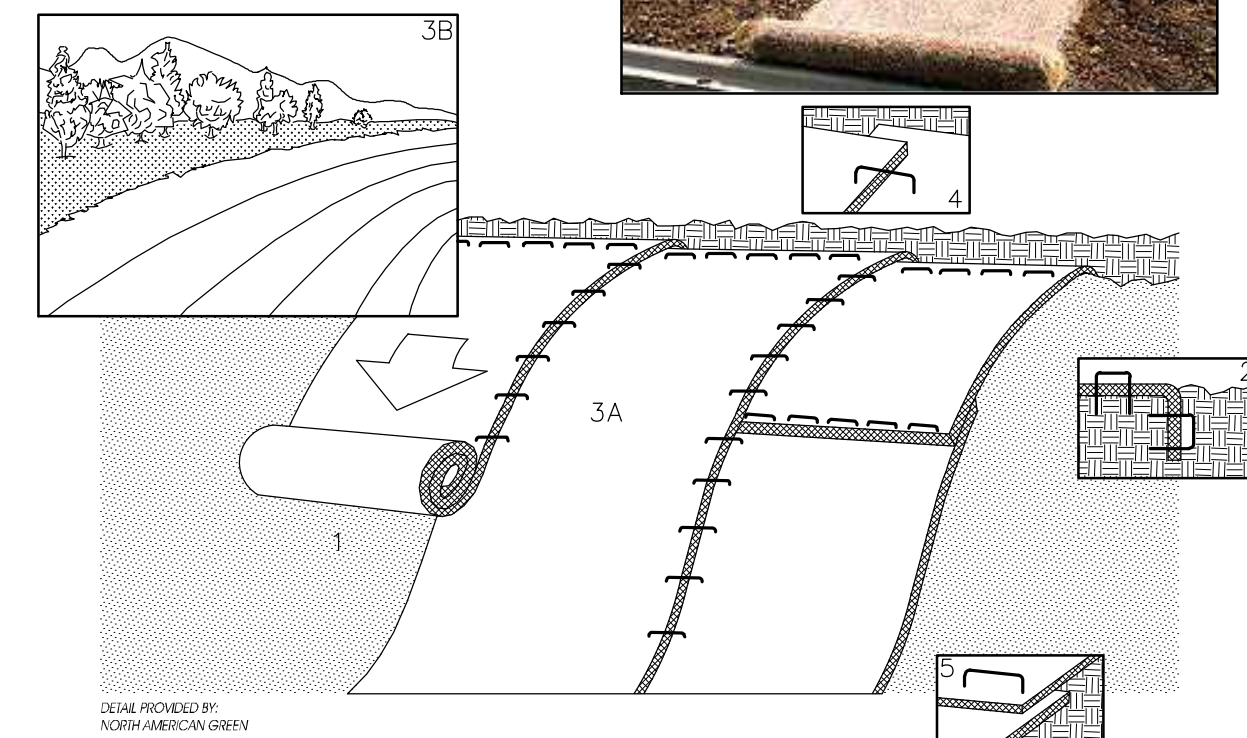
NATIONAL WETLANDS INVENTORY MAP



No stockpiles, clearing debris / piles, or related materials are to remain on the site at the completion of construction. All materials must be removed "trucked" from the site as needed.



NOTE: Stockpile(s) shall be covered with vegetation or a tarp after 7 days of inactivity and achieved within 14 days. Inspect daily and check for damage to perimeter barrier; repair immediately.



GENERAL SEEDING and SURFACE STABILIZATION PROCEDURES IN ACCORDANCE WITH CHAPTER 7 OF THE INDIANA STORM WATER QUALITY MANUAL, OCTOBER 2007

TEMPORARY SEEDING

Table 1. Temporary Seeding Specifications

Seed Species	Rate per Acre	Planting Depth	Optimum Dates
Wheat or Rye	150 lbs.	1 to 1-1/2 inches	Sept. 15 - Oct. 30
Spring Oats	100 lbs.	1 inch	March 1 - April 15
Annual Ryegrass	40 lbs.	1-1/4 inch	March 1 - May 1 Aug. 1 - Sept. 1
German Millet	40 lbs.	1 to 2 inches	May 1 - June 1
Sudangrass	35 lbs.	1 to 2 inches	May 1 - July 30
Buckwheat	60 lbs.	1 to 2 inches	April 15 - June 1
Corn (broadcast)	300 lbs.	1 to 2 inches	May 11 - Aug. 10
Sorghum	35 lbs.	1 to 2 inches	May 1 - July 15

- Parental species may be used as a temporary cover, especially if the area to be seeded will remain idle for more than one year (See Permanent Seeding).
- Seeding done outside the optimum seeding dates increases the chances of seeding failure. Dates may be extended or shortened based on the location of the project site within the state.

Mulch alone is an acceptable temporary cover and may be used in lieu of temporary seeding, provided that it is appropriately anchored. A high potential for fertilizer, seed, and mulch to wash exists on steep banks, cuts, and in channels and areas of concentrated flow.

- Test soil to determine pH and nutrient levels.
- Apply soil amendments as recommended by the soil test. If testing is not done, apply 400 to 600 pounds per acre of 12-12-12 analysis fertilizer, or equivalent.
- Mulch the soil amendments into the upper two to four inches of the soil with a disk or rake operated across the slope.

- Select a seed species or an appropriate seed mixture and application rate from Table 1.
- Apply seed uniformly with a drill or cultipacker seeder or by broadcasting. Plant or cover seed to the depth shown in Table 1.
- If drilling or broadcasting the seed, ensure good seed-to-soil contact by firming the seedbed with a roller or cultipacker after completing seeding operations. Daily seeding when the soil is moist is usually most effective.
- If seeding is done with a hydroseeder, fertilizer and mulch can be applied with the seed in a slurry mixture.
- Apply mulch (See Mulching and Compost Mulching Requirements Below) and anchor it in place.

- Inspect within 24 hours of each rain event and at least once every seven calendar days.
- Check for erosion or movement of mulch and repair immediately.
- Monitor for erosion damage and adequate cover (80 percent density); reseed, fertilize, and apply mulch where necessary.
- If nitrogen deficiency is apparent, top-dress fall seeded wheat or rye seeding with 50 pounds per acre of nitrogen in February or March.

DORMANT SEEDING & FROST SEEDING (SURFACE STABILIZATION MEASURES)

CONTRACTOR TO DETERMINE THE APPROPRIATE SEEDING METHOD BASED ON THE TIME OF YEAR.

- Purposes:**
- To provide early germination and soil stabilization in the spring.
 - To reduce sedimentation downstream runoff from being transported to downstream areas.
 - To improve visual aesthetics of construction area.
 - To repair or enhance previous seeding.

Materials Required:

- Soil amendments based upon analysis of soil by a soil testing service. (fertilizer, etc.)
- Seed (information follows).
- Mulch (straw, hay, wood fiber, etc.) for protection of seeded, moisture retention and encouragement of plant growth. Mulch must be anchored to prevent dispersal by wind or water, may be covered with manufactured erosion control blankets.

Seed Specifications:
Note that seeding done outside of the optimum seeding dates increases the chances of seeding failure, dates may be shortened or extended depending on the location of the site within the State of Indiana. Mulch alone is an acceptable temporary cover and may be used in lieu of temporary seeding, provided that it is appropriately anchored. Parental species may be used as a temporary cover, especially if the area to be seeded will remain idle for more than one year (see permanent seeding).

Temporary Dormant or Frost Seeding
Wheat or Rye: 150 pounds per acre
Spring Oats: 100 pounds per acre
Annual Ryegrass: 60 pounds per acre

Permanent Dormant or Frost Seeding
Open low-maintenance areas (remaining idle more than 6 months):
Perennial ryegrass & white clover: ryegrass 75 pounds per acre + 3 pounds of clover per acre, optimum soil pH 5.6 to 7.0
Perennial ryegrass & tall fescue: ryegrass 40 pounds per acre + 45 pounds of fescue per acre, optimum soil pH 5.6 to 7.0
Tall fescue & white clover: fescue 75 pounds per acre + 3 pounds of white clover per acre, optimum soil pH 5.5 to 7.5
Kentucky bluegrass, smooth bromegrass, switchgrass, timothy, perennial ryegrass, & white clover: bluegrass 30 pounds per acre + 15 pounds of bromegrass per acre + 5 pounds of switchgrass per acre + 6 pounds of timothy per acre + 15 pounds of ryegrass per acre + 3 pounds of white clover per acre, optimum soil pH 5.5 to 7.5

Sleep banks and cuts (low-maintenance areas, not mowed):
Smooth bromegrass & red clover: bromegrass 50 pounds per acre + 30 pounds of red clover per acre, optimum soil pH 5.5 to 7.0
Tall fescue & white clover: fescue 75 pounds per acre + 30 pounds of white clover per acre, optimum soil pH 5.5 to 7.5
Tall fescue & red clover: fescue 75 pounds per acre + 30 pounds of red clover per acre, optimum soil pH 5.5 to 7.5
Orchard grass, red clover, & white clover: orchard grass 45 pounds per acre + 30 pounds of red clover per acre + 3 pounds of white clover per acre, optimum soil pH 5.6 to 7.0
Low-maintenance areas:
Bluegrass: ryegrass 210 pounds per acre, optimum pH 5.5 to 7.0
Perennial ryegrass & bluegrass: 90 pounds of ryegrass per acre & 135 pounds of bluegrass per acre, optimum soil pH 5.6 to 7.0
Tall fescue (turf type) & bluegrass: fescue 250 pounds per acre + 45 pounds of bluegrass per acre, optimum soil pH 5.5 to 7.5

Channels and areas of concentrated flow:
Perennial ryegrass & white clover: ryegrass 225 pounds per acre + 3 pounds of white clover per acre, optimum soil pH 5.5 to 7.0
Kentucky bluegrass, smooth bromegrass, switchgrass, timothy, perennial ryegrass, & white clover: bluegrass 30 pounds per acre + 15 pounds of bromegrass per acre + 5 pounds of switchgrass per acre + 6 pounds of timothy per acre + 15 pounds of ryegrass per acre + 3 pounds of white clover per acre, optimum soil pH 5.5 to 7.5
Tall fescue & white clover: fescue 225 pounds per acre + 3 pounds of clover per acre, optimum soil pH 5.5 to 7.5
Tall fescue, perennial ryegrass, & Kentucky bluegrass: fescue 225 pounds per acre + 30 pounds of ryegrass per acre + 30 pounds of bluegrass per acre, optimum soil pH 5.5 to 7.5

- Note:** for best results:
- Legume seed should be inoculated
 - Seeding mixtures containing legumes should be spring-seeded although, the grass may be fall-seeded and the legume frost seeded.
 - If legumes are fall-seeded, do so in early fall
 - If using mixtures other than those listed above, increase seeding rates by 50 percent over the conventional seeding rates.

Site Preparation:

- Grade the site to achieve positive drainage.
- Add topsoil to achieve needed depth for establishment of vegetation.

Dormant Seeding:

- Test soil to determine pH and nutrient levels.
- Broadcast soil amendments as recommended by soil test and work into the upper 2 to 4 inches of soil. If testing is not done, apply 200 to 300 pounds per acre of 12-12-12 analysis fertilizer, or equivalent.
- Apply anchored mulch immediately after completion of grading and addition of soil amendments.
- Select appropriate seed species (see seed specifications above). Broadcast the seed on top of the mulch and/or into existing ground cover of rates shown. Areas are to be seeded when soil temperatures are below 50 degrees but the soil is not freezing.

Frost Seeding:

- Test soil to determine pH and nutrient levels.
- Broadcast soil amendments as recommended by a soil test and work into the upper 2 to 4 inches of soil before it freezes. If testing was not done, apply 200 to 300 pounds per acre of 12-12-12 analysis fertilizer, or equivalent.
- Select appropriate seed species or mixture (see seed specifications above). Broadcast the seed on the seedbed when the soil is frozen. Do not work the seed into the soil.

Maintenance:

- Inspect at least once every seven calendar days.
- Check for erosion or movement of mulch.
- Check for inadequate cover (less than 80 percent density over the soil surface); reseed and mulch in mid to late April if necessary. For best results, reseed within the recommended dates shown under temporary and permanent seeding.
- Apply 200 to 300 pounds per acre of 12-12-12 analysis fertilizer, or equivalent, between April 15 and May 10 or during periods of vigorous growth.
- Fertilize turf areas annually. Apply fertilizer in a split application. For cool-season grasses, apply 1/2 in late spring and 1/2 in early fall. For warm-season grasses, apply 1/3 in late spring, 1/3 in late spring, and the remaining 1/3 in mid-summer.

Note:
Required density of vegetative cover = 80 percent or greater over the soil surface.

PERMANENT SEEDING

Site Preparation

- Grade the site to achieve positive drainage.
- Add topsoil or compost mulch to achieve needed depth for establishment of vegetation. (Compost material may be added to improve soil moisture holding capacity, soil friability, and nutrient availability.)

Seedbed Preparation

- Test soil to determine pH and nutrient levels.
- Apply soil amendments as recommended by the soil test and work into the upper two to four inches of soil. If testing is not done, apply 400 to 600 pounds per acre of 12-12-12 analysis fertilizer, or equivalent.
- Till the soil to obtain a uniform seedbed. Use a disk or rake, operated across the slope, to work the soil amendments into the upper two to four inches of the soil.

Seeding

Optimum seeding dates are March 1 to May 10 and August 10 to September 30. Permanent seeding done between May 10 and August 10 may need to be irrigated. Seeding outside or beyond optimum seeding dates is still possible with the understanding that reseeding or overseeding may be required if adequate surface cover is not achieved. Reseeding or overseeding can be easily accomplished if the soil surface remains well protected with mulch.

- Select a seeding mixture and rate from Table 1 Permanent Seeding Recommendations. Select seed mixture based on site conditions, soil pH, intended land use, and expected level of maintenance.
- Apply seed uniformly with a drill or cultipacker seeder or by broadcasting. Plant or cover the seed to a depth of one-fourth to one-half inch. If drilling or broadcasting the seed, ensure good seed-to-soil contact by firming the seedbed with a roller or cultipacker after completing seeding operations. (If seeding is done with a hydroseeder fertilizer and mulch can be applied with the seed in a slurry mixture.)
- Mulch all seeded areas and use appropriate methods to anchor the mulch in place. Consider using erosion control blankets on sloping areas and conveyance channels.

Maintenance

- Inspect within 24 hours of each rain event and at least once every seven calendar days until the vegetation is successfully established.
- Characteristics of a successful stand include vigorous dark green or bluish-green seedlings with a uniform vegetative cover density of 90 percent or more.
- Check for erosion or movement of mulch.
- Repair damaged, bare, gullied, or sparsely vegetated areas and then fertilize, reseed, and apply and anchor mulch.
- If plant cover is sparse or patchy, evaluate the plant materials chosen, soil fertility, moisture condition, and mulch application; repair affected areas either by overseeding or preparing a new seedbed and reseeding. Apply and anchor mulch on the newly seeded areas.
- If vegetation fails to grow, consider soil testing to determine soil pH or nutrient deficiency problems. (Contact your soil and water conservation district or cooperative extension office for assistance.)
- An additional fertilization is needed to get a satisfactory stand, do so according to soil test recommendations.
- Add fertilizer the following growing season. Fertilize according to soil test recommendations.
- Fertilize turf areas annually. Apply fertilizer in a split application. For cool-season grasses, apply one-half of the fertilizer in late spring and one-half in early fall. For warm-season grasses, apply one-third in early spring, one-third in late spring, and the remaining one-third in mid-summer.

Table 1 Permanent Seeding Recommendations

This table provides several seed mixture options. Additional seed mixtures are available commercially. When selecting a mixture, consider intended land use and site conditions, including soil properties (e.g., soil pH and drainage), slope aspect, and the tolerance of each species to shade and drought.

Open Low-Maintenance Areas (Remaining Idle more than six months)

Seed Mixture	Rate per Acre Pure Live Seed	Optimum Soil pH
1. Perennial ryegrass - white clover 1	70 lbs. 2 lbs.	5.6 to 7.0
2. Perennial ryegrass - tall fescue 2	70 lbs. 50 lbs.	5.6 to 7.0
3. Tall fescue 2 - white clover 1	70 lbs. 2 lbs.	5.5 to 7.5

Lawns and High-Maintenance Areas

Seed Mixture	Rate per Acre Pure Live Seed	Optimum Soil pH
1. Bluegrass	140 lbs.	5.5 to 7.0
2. Perennial ryegrass (turf type)	60 lbs. 90 lbs.	5.6 to 7.0
3. Tall fescue (turf type)2 -bluegrass	170 lbs. 30 lbs.	5.6 to 7.5

Channels and Areas of Concentrated Flow

Seed Mixture	Rate per Acre Pure Live Seed	Optimum Soil pH
1. Perennial ryegrass - white 1	150 lbs. 2 lbs.	5.5 to 7.0
2. Kentucky bluegrass - smooth bromegrass - switchgrass - timothy - perennial ryegrass - white clover	20 lbs. 10 lbs. 3 lbs. 4 lbs. 10 lbs. 2 lbs.	5.5 to 7.5
3. Tall fescue 1 - white clover	150 lbs. 2 lbs.	5.5 to 7.5
4. Tall fescue 2 - perennial ryegrass - Kentucky bluegrass1	150 lbs. 20 lbs. 20 lbs.	5.5 to 7.5

- For best results: (a) legume seed should be inoculated; (b) seeding mixtures containing legumes should preferably be spring-seeded, although the grass may be fall-seeded and the legume frost-seeded (see Dormant Seeding and Frost Seeding on page 41); and (c) if legumes are fall-seeded, do so in early fall.
- Tall fescue provides little cover for, and may be toxic to some species of wildlife. The Indiana Department of Natural Resources recognizes the need for additional research on alternatives such as buffalograss, orchardgrass, smooth bromegrass, and switchgrass. This research, in conjunction with demonstration areas, should focus on erosion control characteristics, wildlife toxicity, turf durability, and drought resistance.

Note: An oat or wheat companion or nurse crop may be used with any of the above permanent seeding mixtures, at the following rates:
(a) spring oats - one-fourth to three-fourths bushel per acre
(b) wheat - no more than one-half bushel per acre

- A high potential for fertilizer, seed, and mulch to wash exists on steep banks, cuts, and in channels and areas of concentrated flow.

SOil

Installation:
Soil should not be installed during hot weather, on dry soil, frozen soil, compacted clay, loose sand or gravelly substrate soils, aggregate, or pesticide treated soil. The ideal time to lay soil is May 1 to June 1 or September 1 to September 30, although it can be installed as early as March 15 if available or June 1 to September 1 if irrigated.

Site Preparation

- Apply topsoil if existing soil conditions are unsuitable for establishing vegetation.
- Grade the site to achieve positive drainage and create a smooth, firm soil surface.
- Where applicable, use a chisel plow, disk, harrow, or rake to break up compacted soils and create a favorable rooting depth of six to eight inches.

Soil Bed Preparation

- Test soil to determine pH and nutrient levels.
- If soil pH is too acidic for the grass seed to be installed, apply lime according to soil test results or at the rate recommended by the soil supplier.
- Apply fertilizer as recommended by the soil test. If testing was not done, apply 400 to 600 pounds per acre of 12-12-12 analysis fertilizer, or equivalent.
- Work the soil amendments into the upper two to four inches of soil with a disk or rake operated across the slope.
- Rake or harrow the area to achieve a smooth final grade and then roll or cultipack the soil surface to create a firm surface on which to lay the sod.

Laying the Sod

- Install sod strips within thirty-six hours of its cutting.
- Store the sod in a shaded location during installation.
- Immediately before laying the sod, rake the soil surface to break any crust. (If the weather is hot, lightly irrigate the soil surface prior to laying the sod.)
- Lay sod strips in a brick-like pattern.
- Butt all joints tightly against each other (do not stretch or overlap them), using a knife or mason's trowel to trim and fit sod into irregularly shaped areas.
- Roll the sod lightly after installation to ensure firm contact between the sod and soil.
- Irrigate newly sodded areas until the underlying soil is wet to a depth of four inches, and then keep moist until the grass takes root.

Slope Application

- Install sod strips with the longest dimension perpendicular to the slope.
- Where slopes exceed a ratio of 3:1, staple or stake each strip at the corners and in the middle.

Channel Application

(Soaking provides quicker protection than seeding and may reduce the risk of early washout.)

- Excavate the channel, allowing for the full thickness of the sod.
- Lay sod strips with the longest dimension perpendicular to channel flow.
- Staple or stake each strip of sod at the corners and in the middle.
- Staple jute or biodegradable polypropylene netting over the sodded area to minimize the potential for washout during establishment.

Maintenance

- Inspect within 24 hours of each rain event and at least once every seven calendar days until sod is well rooted.
- Keep sod moist until fully rooted.
- After sod is well-rooted (two to three weeks), maintain a plant height of two to three inches.
- Time mowing to avoid ruts in turf.
- Fertilize turf areas annually. Apply fertilizer in a split application. For cool-season grasses, apply one-half of the fertilizer in late spring and one-half in early fall. For warm-season grasses, apply one-third in early spring, one-third in late spring and one-third in mid-summer.

MULCHING

Table 1. Mulch Specifications

Material	Rate per Acre	Comments
Straw or Hay	2 tons	Should be dry, free of undesirable seeds. Spread by hand or machine.
Wood fiber or cellulose	1 ton	Apply with a hydraulic mulch machine and use with tackifier agent.

Mulching is not recommended in concentrated flows. Consider erosion control blankets or other stabilization methods.

Coverage

The mulch should have a uniform density of at least 75 percent over the soil surface.

Anchoring

Table 2. Mulch Anchoring Methods

Anchoring Method	How to Apply
Mulch anchored to rock or farm disk (dull, serrated, and blades set straight)	Crimp or punch the straw or hay two to four inches into the soil. Operate machinery on the contour of the slope.
Cresting with dozer tracks	Operate dozer up and down slope to prevent formation of rills by dozer cleats
Wood hydramulch fibers	Apply according to manufacturer's recommendations.
Synthetic tackifiers, binders, or soil stabilizers	Apply according to manufacturer's recommendations.
Netting (synthetic or biodegradable material)	Install netting immediately after applying mulch. Anchor netting with staples. Edges of netting strips should overlap with each up-slope strip overlapping four to six inches over the adjacent down-slope strip. Best suited to slope applications. In most instances, installation of site specific soil manufacturer's recommendations should be followed.

All forms of mulch must be anchored to prevent displacement by wind and/or water.

Application

- Apply mulch at the recommended rate shown in Table 1.
- Spread the mulch material uniformly by hand, hayfork, mulch blower, or hydraulic mulch machine. After spreading, no more than 25 percent of the ground should be visible.
- Anchor straw or hay mulch immediately after application. The mulch can be anchored using one of the methods listed below:
 - Crimp with a mulch anchoring tool, a weighted farm disk with dull serrated blades set straight, or track cleats of a bulldozer.
 - Apply hydraulic mulch with short cellulose fibers.
 - Apply a liquid tackifier, or
 - Cover with netting secured by staples.

Maintenance

- Inspect within 24 hours of each rain event and at least once a week.
- Check for erosion or movement of mulch; repair damaged areas, reseed, apply new mulch and anchor the mulch in place.
- Continue inspections until vegetation is firmly established.
- If erosion is severe or recurring, use erosion control blankets or other more substantial stabilization methods to protect the area.

Compost Mulching

Compost Specifications

- Feedstocks may include but are not limited to well-composted vegetable matter, leaves, yard trimmings, food scraps, composted manures, paper fiber, wood bark, Class A biosolids (as defined in Title 40 of the Code of Federal Regulations at 40 CFR Part 503), or any combination thereof.
- Compost shall be produced using an aerobic composting process meeting 40 CFR Part 503 regulations, including time and temperature data indicating effective weed seed, pathogen, and insect larvae kill.
- Compost shall be well decomposed, stable, and seed free.
- Refuse free (less than one percent by weight).
- Free of any contaminants and materials toxic to plant growth.
- Insert materials not to exceed one percent by dry weight pH of 5.5 to 8.0.
- Carbon-nitrogen ratio not to exceed 100.
- Moisture content not to exceed 45 percent by dry weight.
- Variable particle size with maximum dimensions of three inches in length, one-half inch in width and one-half inch in depth.

Table 1. Compost Particle Size

Percent Passing Sieve Size			
2-inch Sieve	1-inch Sieve	3/4-inch Sieve	>1/4-inch Sieve
100%	99%	90%	25%

Binding Agents (optional)

Tackifiers, flocculants, or microbial additives may be used to remove sediment and/or additional pollutants from stormwater runoff. (All additives combined with compost materials should be tested for physical results at a certified erosion and sediment control laboratory and biologically tested for elevated beneficial microorganisms at a United States Compost Council, Seal of Testing Assurance, approved testing laboratory.)

Soil Material (optional)

Five percent to ten percent sandy loam (as classified by the U.S. Department of Agriculture soil classification system).

Cover Density

Ninety percent or greater over the soil surface.

Anchoring Method

- Moisten compost/mulch blanket for a minimum of 60 days.
- Erosion control netting (optional).

Cover Thickness

Table 2. Compost Blanket Thickness

Slope	Thickness of Compost Blanket	Thickness of Compost Blanket with Erosion Control Netting
< 25%	< 4:1	1 to 2 inches
25% to 50%	4:1 to 2:1	1 to 2 inches
> 50%	> 2:1	2 to 3 inches

Application

- Remove existing vegetation, large soil clods, rocks, stumps, large roots, and debris in areas where compost mulch is to be applied and dispose of in designated areas.
- Scarify sloping areas.
- Aerate areas to be covered with compost/mulch blanket. (Proper aeration will require a minimum of two passes oriented in opposite directions.)
- Broadcast a minimum of one pound of nitrogen (N), one-half pound of phosphorus (P205), and one-half pound of potash (K2O) per 1,000 square feet or 300 to 400 pounds per acre of 12-12-12 analysis fertilizer, or equivalent, per acre.
- Apply compost mulch blanket with a pneumatic blower or per manufacturer's directions.
 - Apply within three days of completing aeration operations.
 - Overlap top of slope shoulder by five to ten feet.
 - Seal may be applied at time of installation. (Seed must be evenly blended into the compost if applied with a pneumatic blower or applied with a calibrated seeder attachment prior to installation of the compost blanket.)
- Water compost mulch blanket for a period of 60 days following application. (On steeper slopes, it may be necessary to install erosion control netting over the compost blanket.)
 - Mist blanket for first seven days and then every three days throughout the remainder of the 60-day period.
 - Maintain a constant moisture content of 40 percent to 60 percent.

Maintenance

- Inspect within 24 hours of a rain event and at least once a week.
- Repair eroded areas.
- Re-seed, if applicable.
- Monitor vegetation and apply appropriate soil amendments (if needed) per a soil test.

Hydroseeding General Information

Definition

Hydroseeding is a mechanical method of applying seed, fertilizer, and mulch in one step.

Description and Purpose

Hydroseeding typically consists of applying a mixture of wood fiber, seed, fertilizer, and stabilizing emulsion with hydro-mulch equipment, which temporarily protects exposed soils from erosion by water and wind.

The practice may also be called hydro mulching, hydraulic planting, hydraulic mulch seeding, and hydroseeding.

Pollutant(s) Controlled:

Suspended Sediments

Pollution Removal Efficiencies:

Hydroseeding initially reduces sediment generation by 70 to 80% as compared to sediment production off bare slopes.

Companion and Alternative BMPs:

Mulching

Seeding/Vegetation

Roller Erosion Control Products

Advantages and Disadvantages

Tackifiers can be used with the application to help keep the seed in place. Provides mulching medium around the seed to hold moisture.

Disadvantages:

Hydroseeding may be used alone only when there is sufficient time in the growing season) and need 24 hours to dry before rainfall occurs to be effective.

Hydroseeding may be inappropriate in dry periods without supplemental irrigation.

Wood fiber hydraulic mulches are generally short-lived (only last a part of a growing season) and need 24 hours to dry before rainfall occurs to be effective.

