



STORM WATER POLLUTION PREVENTION PLAN

The following plan is established and incorporated in the project to direct the contractor in the placement of temporary erosion control systems and to provide a storm sewer water pollution prevention plan for compliance under NPDES.

The purpose of this plan is to minimize erosion within the construction site and to limit sediments from leaving the construction site by utilizing proper temporary erosion control systems and providing ground cover within a reasonable amount of time.

Certain erosion control facilities shall be installed by the contractor at the beginning of construction, other items shall be installed by the contractor as directed by the engineer on a case by case situation depending on the contractor's sequence of activities, time of year, and expected weather conditions.

The contractor shall install permanent erosion control systems and seeding within a time frame specified herein and as directed by the engineer, therefore minimizing the amount of area susceptible to erosion and reducing the amount of temporary seeding. The engineer will determine if any temporary erosion control systems shown in the plan can be deleted and if any additional temporary erosion control systems, which are not included in this plan, shall be added. The contractor shall perform all work as directed by the engineer and as shown in Standard 280001 of the plans.

Section 280, Temporary Erosion Control, of the Standard Specifications additionally supplements this plan.

SITE DESCRIPTION

DESCRIPTION OF CONSTRUCTION ACTIVITY:

- The project consists of bridge replacement on Indiana Avenue (CH 24) over Trim Creek & approach roadway work thereto.
- Construction includes pavement removal, earth excavation, entrances, channel excavation, various pavement items, bridge items and other miscellaneous items of construction.

DESCRIPTION OF INTENDED SEQUENCE FOR MAJOR CONSTRUCTION ACTIVITIES WHICH WILL DISTURB SOILS FOR MAJOR PORTIONS OF THE CONSTRUCTION SITE:

- Install perimeter erosion barrier as directed by the Engineer.
- Bridge removal and channel excavation.
- Bridge construction and placement of stone riprap.
- Earth excavation, shaping of ditches and placement of temporary ditch checks.
- Aggregate base, bituminous surface and related appurtenances.
- Placement of permanent erosion control in ditches and around bridge abutments, including seeding, erosion control mulch, and erosion control blanket.

AREA OF CONSTRUCTION SITE:

The total area of the construction site is estimated to be 1.74 acres of which 1.69 acres will be disturbed by excavation, grading, and other activities.

OTHER REPORTS, STUDIES AND PLANS WHICH AID IN THE DEVELOPMENT OF THE STORM WATER POLLUTION PREVENTION PLAN AS REFERENCED DOCUMENTS:

- Information of the soils and terrain within the site was obtained from soil borings that were utilized for the development of the proposed temporary erosion control systems.
- Project plan documents, specifications and special provisions, and plan drawings indicating drainage patterns and approximate slopes anticipated after grading activities were utilized for the proposed placement of the temporary erosion control systems.

CONTROLS - EROSION CONTROLS AND SEDIMENT CONTROL

DESCRIPTION OF STABILIZATION PRACTICES AT THE BEGINNING OF CONSTRUCTION:

- The drawings, specifications and special provisions will ensure that existing vegetation is preserved where attainable and disturbed portions of the site will be stabilized. Stabilization practices include: temporary seeding, permanent seeding, perimeter erosion barrier, and other appropriate measures as directed by the engineer. Stabilization measures shall be initiated as soon as practicable in portions of the site where construction activities have temporarily or permanently ceased, but in no case more than 7 days after the construction activity in that portion of the site has temporarily or permanently ceased.
 - Areas of existing vegetation (wood and grasslands) outside the proposed construction limits shall be identified by the engineer for preserving and shall be protected from construction activities.
 - Dead, diseased, or unsuitable vegetation within the site shall be removed as directed by the engineer, along with required tree removal.
 - As soon as reasonable access is available to all locations where water drains away from the project, temporary ditch checks and perimeter erosion barrier shall be installed as called out in this plan and directed by the engineer.
 - Bare and sparsely vegetated ground in highly erodible areas as determined by the engineer shall be temporarily seeded at the beginning of construction where no construction activities are expected within seven days.
 - At locations where a significant amount of water drains into the construction zone from outside areas (adjacent landowners), temporary ditch checks will be utilized to locally divert water, reduce flow rates, and collect outside siltation inside the right-of-way line.
- Establishment of these temporary erosion control measures will have additional benefits to the project, desirable grass seed will become established in these areas and will spread seeds onto the construction site until permanent seeding/mowing and over seeding can be completed.

DESCRIPTION OF STABILIZATION PRACTICES DURING CONSTRUCTION:

- During construction, areas outside the construction limits as outlined previously herein shall be protected, the contractor shall not use this area for staging (except as described on the plans and directed by the engineer), parking of vehicles or construction equipment, storage of materials, or other construction related activities.
 - Within the construction limits, areas which may be susceptible to erosion as determined by the engineer shall remain undisturbed until full scale construction is underway to prevent unnecessary soil erosion.
 - Earth stockpiles shall be temporarily seeded if they are to remain unused for more than fourteen days.
 - As construction proceeds, the contractor shall institute the following as directed by the engineer:
 - Place temporary erosion control facilities at locations shown on the plans.
 - Temporarily seed erodible bare earth on a weekly basis to minimize the amount of erodible surface area within the contract limits.
 - Excavated areas and embankment shall be permanently seeded immediately after final grading, if not, they shall be temporarily seeded if no construction activity in the area is planned for 7 days.
 - Construction equipment shall be stored and fueled only at designated locations, all necessary measures shall be taken to contain any fuel or other pollutant in accordance with EPA water quality regulations, leaking equipment or supplies shall be immediately repaired or removed from the site.
 - The resident engineer shall inspect the project daily during construction activities. Inspection shall also be done weekly and after rains of 1/2 inch or greater or equivalent snowfall and during the winter shutdown period. The project shall additionally be inspected by the construction field engineer on a bi-weekly basis to determine that erosion control efforts are in place and effective and if other erosion control work is necessary.

- Sediment collected during construction of the various temporary erosion control systems shall be disposed of on the site on a regular basis as directed by the engineer. The cost of this maintenance shall be included in the unit bid price for various temporary erosion control pay items.
- The temporary erosion control systems shall be removed as directed by the engineer after use is no longer needed or no longer functioning. The cost of this removal shall be included in the unit bid price for various temporary erosion control pay items.

DESCRIPTION OF STRUCTURAL PRACTICES AFTER FINAL GRADING

- Temporary erosion control systems shall be left in place with proper maintenance until permanent erosion control is in place and working properly and all proposed turf areas seeded and established.
- Once permanent erosion control systems as proposed in the plans are functional and established, temporary items shall be removed, cleaned up, and disturbed turf reseeded.

MAINTENANCE AFTER CONSTRUCTION

- Construction is complete after acceptance by IDOT's final inspection. Maintenance up to this date will be by the contractor.

MISCELLANEOUS:

All erosion control products furnished shall be specifically recommended by the manufacturer for the use specified in the erosion control plan, prior to the approval and use of the product, the contractor shall submit to the engineer a notarized certification by the producer stating the intended use of the product and that the physical properties required for this application are met or exceeded, the contractor shall provide manufacturer installation procedures to facilitate the engineer in construction inspection.

LEGEND

- Perimeter Erosion Barrier
- Seeding, Class 2A
- Seeding, Class 4 (Native Grasses)
- Temporary Ditch Checks
- Erosion Control Blanket
- Turf Reinforcement Mat
- Stone-Dumped Riprap, Class A3
- Wetland Area Impacted

BILL OF MATERIAL

Item	Unit	Quantity
Seeding, Class 2A	Acre	0.61
Seeding, Class 4	Acre	0.20
Erosion Control Blanket	Sq. Yd.	2,975
Turf Reinforcement Mat	Sq. Yd.	382
Temporary Ditch Checks	Foot	63
Perimeter Erosion Barrier	Foot	339
Stone-Dumped Riprap, Class A3	Sq. Yd.	178

FILE = S:\Struct\1033004-Indiana Avenue\Design\1033004ErosionControl.dwg

REVISION	DATE	BY	REMARKS

ILLINOIS DEPARTMENT OF TRANSPORTATION
BRIDGE REPLACEMENT
INDIANA AVENUE (CH 24) OVER TRIM CREEK

WILLET HOFMANN ASSOCIATES INC.
 ENGINEERING ARCHITECTURE LAND SURVEYING
 809 EAST 2ND STREET, DIXON, IL 61021-0357
 T: 815-284-3381 DESIGN FIRM: #154-000918

WILL COUNTY

SOIL EROSION AND SEDIMENT CONTROL PLAN
STRUCTURE NO. 099-3378
STA. 45 + 50.00 - STA. 51 + 00.00

SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
01-00042-07-BR	WILL	58	12
STA. 47+00	STA. 53+50		
WHA #: 1033004	DATE: 6/9/2011		

CONTRACT NO. 63617