

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
303	131B (1&2) BR	McHENRY	107	27
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

CONTRACT NO. 60B83

## STORM WATER POLLUTION PREVENTION PLAN

### 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 CONTRACTORS 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 AND THE DETAILS IN THE PLANS.

SECTION 280, TEMPORARY EROSION CONTROL, OF THE IDOT STANDARD SPECIFICATIONS, ADDITIONALLY SUPPLEMENTS THIS PLAN.

### SITE DESCRIPTION - DESCRIPTION OF CONSTRUCTION ACTIVITY:

THE PROJECT CONSISTS OF THE RAISING AND RECONSTRUCTION OF ILLINOIS ROUTE 173, FROM WHITE OAKS ROAD TO OAK GROVE ROAD, ALONG ITS EXISTING ALIGNMENT; AND REPLACING TWO EXISTING BRIDGES OVER THE PISCASAW CREEK.

1. SPECIFICALLY, THE CONSTRUCTION INCLUDES BOTH ROADWAY WORK AND STRUCTURAL WORK.
  - A. THE ROADWAY WORK WILL INCLUDE PAVEMENT REMOVAL, EARTH EXCAVATION, TEMPORARY PAVEMENT PLACEMENT, EMBANKMENT PLACEMENT, TEMPORARY LIGHTING AND TRAFFIC SIGNAL INSTALLATIONS, HOT MIX ASPHALT PAVEMENT PLACEMENT, AND NEW GUARDRAILS.
  - B. THE STRUCTURAL WORK WILL INCLUDE REMOVAL OF THE EXISTING BRIDGE DECK, IN-STREAM PIERS AND EXISTING ABUTMENTS. THE PROPOSED WORK WILL INCLUDE THE CONSTRUCTION OF IN-STREAM PIERS, ABUTMENTS WITH RIPRAP PROTECTION, THE PLACEMENT OF NEW BEAMS, AND A NEW CONCRETE DECK.
2. THE MAJORITY OF THIS PROJECT IS LOCATED ADJACENT TO BECKS ROAD, McHENRY COUNTY CONSERVATION DISTRICT'S FOREST PRESERVE AND HAS FIVE WETLANDS ADJACENT TO THE LIMITS OF CONSTRUCTION. THE WETLAND AREAS INCLUDE THE PISCASAW CREEK, ITS OVERFLOW CHANNEL AND A SPECKLED ALDER SWAMP. PISCASAW CREEK IS A CLASS A STREAM AND THE WETLAND CONSISTS OF A HIGH QUALITY SPECKLED ALDER SWAMP.

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

#### PRE-STAGE ACTIVITIES

1. INSTALL TEMPORARY CHAIN LINK FENCE, PAID FOR AS "FENCE (EROSION CONTROL), SPECIAL", ALONG WITH AN ATTACHED PERIMETER EROSION BARRIER AS SHOWN ON THE PLANS.
2. PERFORM ISOLATED TREE REMOVAL AS SHOWN ON THE PLANS. PROVIDE TREE TRUNK PROTECTION FOR TREES TO REMAIN TO PROTECT THEM AGAINST DAMAGE.
3. REMOVAL OF THE WESTBOUND SHOULDER AND THE PLACEMENT OF TEMPORARY PAVEMENT.
4. INSTALLATION OF WOOD POLES FOR THE TEMPORARY LIGHTING AND TRAFFIC SIGNALS.
5. REMOVAL OF DEBRIS IN THE CHANNEL ADJACENT TO THE BRIDGES TO ALLOW FOR THE PLACEMENT OF THE WATER FILLED COFFERDAMS.

### STAGE I ACTIVITIES (EAST-BOUND LANE RECONSTRUCTION)

1. STAGE IA (SUBSTAGES IA-1 AND IA-2)
  - A. THE REMOVAL OF THE EASTBOUND HALF OF THE EXISTING BRIDGE INCLUDING DECK, PIERS AND ABUTMENTS.
  - B. TO LIMIT THE EXPOSED EARTH SURFACE, CONTRACTOR SHALL ONLY REMOVE THE EXISTING PAVEMENT AND EXCAVATION AS NEEDED FOR WORK IN THE STREAMBED FOR PIER REMOVAL AND NEW PIER CONSTRUCTION.
  - C. THE IN-STREAM WORK WILL CONSIST OF THE CONSTRUCTION OF THE PROPOSED PIERS AND PLACEMENT OF THE RIPRAP PROTECTION.
2. STAGE IB
  - A. REMAINDER OF THE PAVEMENT REMOVAL, TOPSOIL STRIPPING, PLACEMENT OF EMBANKMENT WILL BE COMPLETED AND THE ROADWAY PAVED.
  - B. PLACEMENT OF TOPSOIL, SEEDING AND SODDING, ALONG THE EASTBOUND PAVEMENT.

### STAGE II ACTIVITIES (WEST-BOUND LANE RECONSTRUCTION)

1. STAGES IIA-1 AND IIA-2 AND STAGE IIB CONSTRUCTION STAGING WORK SEQUENCE AND ACTIVITIES WILL BE THE SAME AS NOTED ABOVE FOR STAGE I.
  - D. ADDITIONALLY, THE CHANNEL OF PISCASAW CREEK WILL BE REGRADED TO REMOVE THE SEDIMENT ISLAND AND PROVIDE A LOW FLOW CHANNEL.

### AREA OF CONSTRUCTION SITE

THE TOTAL AREA OF THE CONSTRUCTION SITE IS ESTIMATED TO BE APPROXIMATELY 4.0 ACRES OF WHICH 3.4 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 REFERENCED DOCUMENTS

1. INFORMATION ON THE SOILS AND TERRAIN WITHIN THE SITE WAS OBTAINED FROM THE SOIL BORINGS AND THE NATURAL RESOURCES AND CONSERVATION DISTRICT'S SOIL MAP THAT WERE UTILIZED FOR THE DEVELOPMENT OF THE PROPOSED TEMPORARY EROSION CONTROL SYSTEMS.
2. PROJECT PLAN DOCUMENTS, SPECIFICATIONS AND SPECIAL PROVISIONS, AND PLAN DRAWING INDICATING DRAINAGE PATTERNS AND APPROXIMATE SLOPES ANTICIPATED AFTER GRADING ACTIVITIES WERE UTILIZED FOR THE PROPOSED PLACEMENT OF THE TEMPORARY EROSION CONTROL SYSTEMS.

### DRAINAGE TRIBUTARIES AND SENSITIVE AREAS RECEIVING RUNOFF FROM THIS CONSTRUCTION SITE

1. DRAINAGE TRIBUTARY AREAS WILL NOT BE DEVIATED FROM, DURING PRE-CONSTRUCTION, CONSTRUCTION, OR POST CONSTRUCTION STAGES, DUE TO THE PROPOSED IMPROVEMENTS.
2. STORM WATER RUNOFF, FROM THE PAVEMENT, WILL SHEET FLOW OFF THE PAVEMENT TO THE ADJACENT AREAS. THESE AREAS WILL BE PROTECTED WITH BOTH PERIMETER EROSION BARRIER "FENCE (EROSION CONTROL), SPECIAL".
  - A. WHERE THE PAVEMENT IS ADJACENT TO THE WETLAND AREAS, RUNOFF WILL SHEET FLOW OFFSITE DOWN THE EMBANKMENTS TO THE WETLAND AREAS.
  - B. WHERE EXISTING DITCHES, SWALES AND/OR CULVERTS ARE PRESENT, THESE WILL BE MAINTAINED AND THE RUNOFF FROM THE PAVEMENT WILL USE THESE CONVEYANCE STRUCTURES TO DISCHARGE RUNOFF TO THE CREEK AT THE LOCATION OF THE BRIDGE ABUTMENT RIPRAP PROTECTION.



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REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 EROSION AND SEDIMENT CONTROL  
 STORM WATER POLLUTION PREVENTION PLAN  
 IL. RTE. 173

SCALE: NONE  
 DATE: APRIL 16, 2007

DRAWN BY: A.C.S.  
 CHECKED BY: S.J.P.