F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2666	00-00254-01-BR	LAKE	70	16
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

PROJECT NO. BHM-8003(213)
CONTRACT NO. 83875

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:

THE SITE IS CURRENTLY A TWO LANE CONCRETE ROADWAY SOUTH OF THE BRIDGE OVER THE INDIAN CREEK AND A TWO LANE BITUMINOUS ROADWAY NORTH OF THE BRIDGE OVER INDIAN CREEK WITH BOTH SHOULDERS AND SOME CLOSED STORM SEWER SYSTEM. THE PROJECT AREA IS RESIDENTAL.

DESCRIPTION OF CONSTRUCTION ACTIVITY:

THE PROJECT CONSISTS OF WIDENING THE BUFFALO GROVE BRIDGE OVER INDIAN CREEK. THIS WILL ALLOW FOR THE CONNECTION OF A BIKE PATH ON THE WEST SIDE OF THE BRIDGE AND A SIDEWALK ON THE EAST SIDE.

CONSTRUCTION INCLUDES EARTH EXCAVATION, EMBANKMENT, STORM SEWERS, MANHOLES, INLETS, VARIOUS PAVEMENT ITEMS, BIKEPATH, STRIPING, SIGNING, LANDSCAPING, 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:

PLACE EROSION BARRIER

TREE REMOVAL AS SHOWN ON THE PLANS. TREES TO REMAIN WILL BE PROTECTED AGAINST DAMAGE.

EXCAVATION AND EMBANKMENT WILL BE COMPLETED ALONG THE JOB SITE TO GRADE OUT FOR THE PROPOSED ROADWAY AND BIKEPATH AND CONSTRUCT EMBANKMENT AND DITCHES.

PLACEMENT, MAINTENANCE, REMOVAL AND PROPER CLEAN-UP OF TEMPORARY EROSION CONTROL, SUCH AS PERIMETER EROSION CONTROL BARRIER, TEMPORARY DITCH CHECKS, INLET AND PIPE PROTECTION, TEMPORARY SEEDING, ETC.

PAVEMENT AND BIKE PATH SUBBASE AND SURFACING CONSTRUCTION WORK.

FINAL GRADING, LANDSCAPING, AND OTHER MISCELLANEOUS ITEMS.

PLACEMENT OF PERMANENT EROSION CONTROL, SUCH AS SEEDING, MULCH OR EROSION CONTROL BLANKET, SOD, STABILIZING BLANKET, RIPRAP, ETC.

AREA OF CONSTRUCTION SITE:

THE TOTAL AREA OF THE CONSTRUCTION SITE IS ESTIMATED TO BE 2.08 ACRES OF WHICH 1.68 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 TOPOGRAPHIC SURVEYS AND SOIL BORINGS FOR THE ROADWAY PROJECT AND THAT WERE UTILIZED FOR THE DEVELOPMENT OF THE PROPOSED TEMPORARY EROSION CONTROL SYSTEMS.

PROJECT PLAN DOCUMENTS, SPECIFICATIONS AND SPECIAL PROVISIONS AND PLAN DRAWINGS WERE UTILIZED FOR THE PROPOSED PLACEMENT OF THE TEMPORARY EROSION CONTROL SYSTEMS.

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

STORM SEWER OUTLETS TO INDIAN CREEK.

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, MULCHING, EROSION CONTROL BLANKET, SOD AND EROSION CONTROL BLOCKING, PROTECTION OF TREES, PRESERVATION OF NATURE VEGETATION, 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, INLET AND PIPE PROTECTION, AND PERIMETER EROSION BARRIER SHALL BE INSTALLED AS CALLED OUT IN THIS PLAN AND DIRECTED BY THE ENGINEER.

BARE AND SPARSELY VEGETATED GROUND IN HIGH ERODABLE AREAS AS DETERMINED BY THE ENGINEER SHALL BE TEMPORALLY SEEDED WHEN NO CONSTRUCTION ACTIVITIES ARE EXPECTED WITHIN FOURTEEN DAYS.

IMMEDIATELY AFTER TREE REMOVAL IS COMPLETED, AREA WHICH ARE HIGHLY ERODABLE AS DETERMINED BY THE ENGINEER, SHALL BE TEMPORARILY SEEDED WHEN NOT CONSTRUCTION ACTIVITIES ARE EXPECTED WITHIN SEVEN DAYS.

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 AS DIRECTED BY THE ENGINEER), PARKING OF VEHICLES OR CONSTION 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.

THE DOWN STREAM SIDE OF ALL STOCKPILES SHALL BE ENCOMPASSED WITH EROSION CONTROL BARRIER.

AS CONSTRUCTION PROCEEDS, THE CONTRACTOR SHALL INSTITUTE THE FOLLOWING AS DIRECTED BY THE ENGINEER:

a.) PLACE TEMPORARY EROSION CONTROL FACILITIES AT LOCATIONS SHOWN ON THE PLANS.

b.) TEMPORARILY SEED ERODABLE BARE EARTH PER IDOT STANDARD SPECIFICATIONS TO MINIMIZE THE AMOUNT OF ERODABLE SURFACE AREA WITHIN THE CONTRACT LIMITS.

c.) CONSTRUCT ROADSIDE DITCHES AND PROVIDE TEMPORARY EROSION CONTROL SYSTEMS.

EXCAVATED AREAS AND EMBANKMENT SHALL BE PERMANENTLY SEEDED OR SODDED IMMEDIATELY AFTER FINAL GRADING. IF NOT, THEY SHALL BE TEMPORARILY SEEDED IF NO CONSTRUCTION ACTIVITY IN THE AREA IS PLANNED FOR 14 DAYS.

CONSTRUCTION EQUIPMENT SHALL BE STORED AND FUELED ONLY AT DESIGNATED LOCATIONS. ALL NECESSARY MEASURES SHALL BE TAKEN TO CONTAIN ANY FUEL OF 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 ½ 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 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 MAINTANANCE OF TEMPORARY EROSION CONTROL SYSTEMS.

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.

COST OF MAINTAINING THE VARIOUS TEMPORARY EROSION CONTROL SYSTEMS SHALL BE INCLUDED IN THE UNIT BID COST FOR MAINTANANCE OF TEMPORARY EROSION CONTROL SYSTEMS.

ONCE PERMANENT EROSION CONTROL SYSTEMS AS PROPOSED IN THE PLANS ARE FUNCTIONAL AND ESTABLLISHED, TEMPORARY ITEMS SHALL BE REMOVED, CLEANED UP, AND DISTURBED TURF RESEEDED OR SODDED.

MAINTENANCE AFTER CONSTRUCTION:

CONSTRUCTION IS COMPLETE AFTER ACCEPTANCE BY I.D.O.T./LAKE COUNTY. MAINTENANCE OF TEMPORARY AND PERMANENT EROSION CONTROL SYSTEMS UP TO THIS DATE WILL BE BY THE CONTRACTOR.

DOCUMENTATION:

PRIOR TO BEGINNING WORK, THE ENGINEER SHALL COMPLETE AND SUBMIT A "NOTICE OF INTENT (NOI)" PROPERLY SIGNED TO THE ILLINOIS ENVIRONMENTAL PROTECTION AGENCY.

THROUGHOUT CONSTRUCTION, THE ENGINEER SHALL MAINTAIN AND UPDATE AN "AS BUILT" SET OF EROSION AND SEDIMENTATION CONTROL PLANS IN THE PROJECT FILES, WHICH SHALL BE RETAINED FOR THREE YEARS AFTER COMPLETION OF CONSTRUCTION.

A REPORT (FORM BC 2259) SUMMARIZING THE SCOPE OF AN INSPECTION; NAME(S) AND QUALIFICATIONS OF PERSONNEL MAKING THE INSPECTION; DATE OF THE INSPECTION; MAJOR OBSERVATIONS RELATING TO THE IMPLEMENTATION OF THIS STORMWATER POLLUTION PREVENTION PLAN; AND ACTIONS TAKEN IN ACCORDANCE WITH SECTION 4. B., SHALL BE MADE AND RETAINED AS A PART OF THE PLAN FOR AT LEAST THREE YEARS AFTER THE DATE OF INSPECTION. THE REPORT SHALL BE SIGNED IN ACCORDANCE WITH PART VI. G. OF THE GENERAL PERMIT.

IF ANY VIOLATION OF THE PROVISIONS OF THIS PLAN IS IDENTIFIED DURING THE CONDUCT OF THE CONSTRUCTION WORK COVERED BY THIS PLAN, THE ENGINEER SHALL COMPLETE AND FILE AN "INCIDENT OF NONCOMPLIANCE (ION)" REPORT FOR THE IDENTIFIED VIOLATION. THE ENGINEER SHALL USE FORMS PROVIDED BY THE ILLINOIS ENVIRONMENTAL PROTECTION AGENCY, AND SHALL INCLUDE SPECIFIC INFORMATION ON THE INCIDENT THAT CAUSED NONCOMPLIANCE, ACTIONS THAT WERE TAKEN TO CORRECT THE NONCOMPLIANCE AND TO PREVENT ITS' REOCCURRENCE, AND A STATEMENT DETAILING ANY ENVIRONMENTAL IMPACT WHICH MAY HAVE RESULTED FROM THE NONCOMPLIANCE. ALL REPORTS OF NONCOMPLIANCE SHALL BE SIGNED BY A RESPONSIBLE AUTHORITY IN ACCORDANCE WITH PART VI. G. OF THE GENERAL PERMIT.

AFTER PROJECT FINAL ACCEPTANCE, THE ENGINEER SHALL COMPLETE AND SUBMIT A "NOTICE OF TERMINATION (NOT)" FORM PROPERLY SIGNED TO THE ILLINOIS ENVIRONMENTAL PROTECTION AGENCY.
FORMS FOR THE IEPA SHALL BE MAILED TO THE FOLLOWING ADDRESS:
ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF WATER POLLUTION CONTROL
ATTN: PERMIT SECTION
POST OFFICE BOX 19276
SPRINGFIELD, ILLINOIS 62794-9276

GENERAL NOTES:

STRAW BALES, HAY BALES, PERIMETER EROSION BARRIER AND SILT FENCES WILL NOT BE PERMITTED FOR TEMPORARY OR PERMANENT DITCH CHECKS. DITCH CHECKS SHALL BE COMPOSED OF AGGREGATE, SILT PANELS, ROLLED EXCELSIOR, URETHANE FOAM/GOETEXTILE (SILT WEDGES), AND/OR A OTHER MATERIAL APPROVED BY THE ENGINEER.

SEDIMENT COLLECTED DURING CONSTRUCTION BY THE VARIOUS TEMPORARY EROSION CONTROL SYSTEMS SHALL BE DISPOSED ON THE SITE ON A REGULAR BASIS, AS DIRECTED BY THE ENGINEER. THE COST OF THIS MAINTENANCE SHALL BE CONSIDERED INCIDENTAL TO THE PAY ITEM FOR MAINTANANCE OF TEMPORARY CONTROL SYSTEMS.

PERIMETER BARRIER PROTECTING UNDISTURBED AREAS IS TO BE PLACED PRIOR TO ANY OTHER WORK, AND IS NOT TO BE REMOVED UNTIL ALL WORK IS COMPLETE AND PERMANENT STABILIZATION IS ESTABLISHED. PERIMETER BARRIER SURROUNDING STOCKPILES IS TO BE PLACED WHEN STOCKPILES ARE CONSTRUCTED.

IN STAGES 1 AND 2, DITCHES ARE TO BE CONSTRUCTED TO FINAL CROSS SECTION AND GRADE AND STABILIZED PERMANENTLY AS SOON AS IS FEASIBLE, IN THE AREA FROM THE FORESLOPE TO THE CONSTRUCTION LIMITS. TEMPORARY DITCH CHECKS, PLACED AS PER THE TABLE, AND TEMPORARY EROSION CONTROL SEEDING SHALL BE USED UNTIL PERMANENT STABILIZATION CAN BE INSTALLED AND ESTABLISHED.

STOCKPILES OF TOPSOIL, OR OTHER SOIL SALVAGED FROM THE JOB FOR LATER USE, SHALL BE COVERED AND SURROUNDED BY PERIMETER BARRIER IMMEDIATELY AFTER PLACEMENT. WHEN THE SOIL IS REMOVED, THE AREA SHALL BE GRADED, PERMANENTLY SODDED AND MULCHED, AND THE PERIMETER BARRIER REMOVED.

TEMPORARY DITCH CHECKS SHALL BE ROLLED EXCELSIOR DITCH CHECKS PLACED ACCORDING TO STANDARD 280001, BEGINNING AT THE DITCH OUTFALL AND PROGRESSING UPSTREAM. THE SPACING SHALL BE GOVERNED BY THE GRADIENT OF THE DITCH LINE IN ACCORDANCE WITH THE FOLLOWING SCHEDULE:

% GRADE	DITCH CHECK SPACING
LESS THAN 1.0%	100 FEET ON CENTER
2.0%	50 FEET ON CENTER

REVISIONS	
NAME	DATE

CMT
CRAWFORD MURPHY & TILLY, INC.
CONSULTING ENGINEERS
SPRINGFIELD, IL ■ AURORA, IL ■ ST. LOUIS, MO

ILLINOIS DEPARTMENT OF TRANSPORTATION

STORM WATER POLLUTION PREVENTION PLAN

BUFFALO GROVE ROAD
SHEET 1 OF 2

SCALE: VERT.:
HORIZ.:
DATE: 7/21/06

DRAWN BY: SNH
CHECKED BY: PWK

PLAN / PROFILE
SURVEYED
DRAWN
CHECKED
QUANTITIES CHECKED
ALIGNMENT CHECKED
GRADES CHECKED
QUANTITIES VERIFIED
STRUCTURE DETAILING CHKD
NOTE BOOK
NO.
CADD FILE NAME
BY
DATE

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