THIS PLAN HAS BEEN PREPARED TO COMPLY WITH THE PROVISIONS OF THE NPDES PERMIT NUMBER ILRIO, ISSUED BY THE ILLINOIS ENVIRONMENTAL PROTECTION AGENCY ON MAY 30, 2003 FOR STORM WATER DISCHARGES FROM CONSTRUCTION SITE ACTIVITIES. THIS PLAN HAS ALSO BEEN PREPARED TO COMPLY WITH THE PROVISIONS OF NPDES PERMIT NUMBER ILR40 FOR DISCHARGES FROM SMALL MUNICIPAL SEPARATE STORM SEWER SYSTEMS IF CHECKED BELOW.

NPDES PERMITS ASSOCIATED WITH THIS PROJECT:

☑ ILR40 PERMIT NO. 0493

I CERTIEY LINDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED LINDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHERED AND EVALUATED THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM, OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS, TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS.

MARY C. LAMIE	May Chami
PRINT NAME	Ø SIGNATURE
DEPUTY DIRECTOR OF HIGHWAYS REGION FIVE ENGINEER	12-12-07
TITLE	DATE

I. SITE DESCRIPTION:

IL DEPT. OF TRANSPORTATION
AGENCY

A. THE FOLLOWING IS A DESCRIPTION OF THE PROJECT LOCATION:

THE PROJECT CONSISTS OF STRUCTURE REPLACEMENT OF THE STRUCTURE CARRYING OLD US 50 OVER SUGAR CREEK.

B. THE FOLLOWING IS A DESCRIPTION OF THE CONSTRUCTION ACTIVITY WHICH IS THE SUBJECT OF THIS PLAN: CONSTRUCTION INCLUDES THE STRUCTURE REPLACEMENT, A PROFILE GRADE CHANGE, AGGREGATE AND HMA SHOULDERS, GUARDRAIL, EARTH EXCAVATION AND EMBANKMENT, RIPRAP (WIERS AND JETTIES), TREE REMOVAL, AND ALL INCIDENTAL AND COLLATERAL WORK NECESSARY TO COMPLETE THE PROJECT AS SHOWN ON THE PLANS.

C. THE FOLLOWING IS A DESCRIPTION OF THE INTENDED SEQUENCE OF MAJOR ACTIVITIES WHICH WILL DISTURB SOILS FOR MAJOR PORTIONS OF THE CONSTRUCTION SITE, SUCH AS GRUBBING, EXCAVATION AND GRADING:

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

ROAD WILL BE CLOSED TO TRAFFIC AND A DETOUR IN PLACE DURING CONSTRUCTION OF THE STRUCTURE.

THE ROADWAY WORK WILL BE DONE IN CONJUNCTION WITH THE STRUCTURE WORK IN ORDER TO MINIMIZE THE DETOUR LENGTH OF TIME.

- 1. TREE REMOVAL WITHIN CONSTRUCTION LIMITS DUE TO PROPOSED EMBANKMENT FOR GUARDRAIL PLACEMENT. TREES TO REMAIN WILL BE PROTECTED AGAINST DAMAGE.
- 2. EXCAVATION AND EMBANKMENT TO GRADE OUT FOR PROPOSED GUARDRAIL AND DITCHES.
- 3. RIPRAP PLACEMENT ALONG STRUCTURE AND PLACEMENT OF WIERS AND JETTIES UP AND DOWN STREAM.
- 4. PLACEMENT, MAINTENANCE, REMOVAL AND PROPER CLEAN-UP OF TEMPORARY EROSION CONTROL, SUCH AS PERIMETER EROSION BARRIER, TEMPORARY DITCH CHECKS, TEMPORARY SEEDING, ETC.
- 5. FINAL GRADING, PAVING, AND OTHER MISCELLANEOUS ITEMS.
- 6. PLACEMENT OF PERMANENT EROSION CONTROL, SUCH AS EROSION CONTROL BLANKET, SEEDING, ETC.
- D. THE TOTAL AREA OF THE CONSTRUCTION SITE IS ESTIMATED TO BE 3.5 ACRES.

THE TOTAL AREA OF THE SITE THAT IS ESTIMATED WILL BE DISTURBED BY EXCAVATION, GRADING OR OTHER ACTIVITIES IS 2.1 ACRES.

- E. THE FOLLOWING IS A WEIGHTED AVERAGE OF THE RUNOFF COEFFICIENT FOR THIS PROJECT AFTER CONSTRUCTION ACTIVITIES ARE COMPLETED: 0.50
- F. THE FOLLOWING IS A DESCRIPTION OF THE SOIL TYPES FOUND AT THE PROJECT SITE FOLLOWED BY INFORMATION

ONE SOIL TYPE IS LOCATED WITHIN THE PROJECT AREA OF THE OLD US 50 BRIDGE REPLACEMENT OVER SUGAR CREEK.

BIRDS SILT LOAM (3334) - A POORLY DRAINED SOIL WITH MODERATELY SLOW PERMEABILITY. THIS SOIL HAS A SLIGHT SUSCEPTIBILITY TO WIND AND WATER EROSION WITH SLOPES BETWEEN ZERO AND TWO PERCENT.

THERE ARE TWO POTENTIALLY EROSIVE AREAS. THE FIRST IS BETWEEN STATION 1+50 AND STATION 7+28.5 ON THE SOUTH SIDE OF OLD US ROUTE 50. THE SECOND IS BETWEEN STATION 11+00 AND STATION 23+25 ALSO ON THE SOUTH SIDE OF OLD US ROUTE 50.

G. THE FOLLOWING IS A DESCRIPTION OF POTENTIALLY EROSIVE AREAS ASSOCIATED WITH THIS PROJECT:

H. THE FOLLOWING IS A DESCRIPTION OF SOIL DISTURBING ACTIVITIES, THEIR LOCATIONS, AND THEIR EROSIVE FACTORS (E.G. STEEPNESS OF SLOPES, LENGTH OF SLOPES, ETC):

THE PURPOSE OF LAND DISTURBING ACTIVITIES ON THIS PROJECT IS TO REMOVE AND REPLACE THE OLD US ROUTE 50 OVER SUGAR CREEK (PROPOSED STRUCTURE NO. 014-0077, EXISTING STRUCTURE NO. 014-0030), THE RECONSTRUCTION OF GUARDRAIL AND SIDE SLOPES.

THE ONLY SOIL TYPE IN THE PROJECT AREA IS BIRDS SILT LOAM (3334). IT HAS A SLIGHT SUSCEPTIBILITY TO WIND AND WATER EROSION WITH SLOPES BETWEEN ZERO AND TWO PERCENT. THE TWO POTENTIALLY EROSIVE AREAS LISTED ABOVE HAVE SIDE SLOPES OF 1:2 (V:H).

- 1. SEE THE EROSION CONTROL PLANS AND/OR DRAINAGE PLANS FOR THIS CONTRACT FOR INFORMATION REGARDING DRAINAGE PATTERNS, APPROXIMATE SLOPES ANTICIPATED BEFORE AND AFTER MAJOR GRADING ACTIVITIES, LOCATIONS WHERE VEHICLES ENTER OR EXIT THE SITE AND CONTROLS TO PREVENT OFF SITE SEDIMENT TRACKING (TO BE ADDED AFTER CONTRACTOR IDENTIFIES LOCATIONS), AREAS OF SOIL DISTURBANCE, THE LOCATION OF MAJOR STRUCTURAL AND NON STRUCTURAL CONTROLS IDENTIFIED IN THE PLAN, THE LOCATION OF AREAS WHERE STABILIZATION PRACTICES ARE EXPECTED TO OCCUR, SURFACE WATERS (INCLUDING WETLANDS) AND LOCATIONS WHERE STORM WATER IS DISCHARGED TO SURFACE
- J. THE FOLLOWING IS A LIST OF RECEIVING WATER(S) AND THE ULTIMATE RECEIVING WATER(S), AND AERIAL EXTENT OF WETLAND ACREAGE AT THE SITE. THE LOCATION OF THE RECEIVING WATERS CAN BE FOUND ON THE EROSION AND SEDIMENT CONTROL PLANS:

SUGAR CREEK

WETLANDS: SITE 1 - 22' SOUTH OF OLD US 50, 55' WEST OF SUGAR CREEK (0.089 ACRE)

SITE 3 - 37' SOUTH OF OLD US 50, 255' WEST OF SUGAR CREEK (0.651 ACRE TOTAL, 0.605 ACRE WITHIN PROJECT CORRIDOR)

SITE 4 - 145' SOUTH OF OLD US 50, 480' WEST OF SUGAR CREEK

(TOTAL UNKNOWN, 0.058 ACRE WITHIN PROJECT CORRIDOR SITE 5 - 58' SOUTH OF OLD US 50, 250' EAST OF SUGAR CREEK (0.014 ACRE)

K. THE FOLLOWING POLLUTANTS OF CONCERN WILL BE ASSOCIATED WITH THIS CONSTRUCTION PROJECT: (CHECK ALL THAT APPLY)

SOIL SEDIMENT	☐ PETROLEUM (GAS, DIESEL, OIL, KEROSENE, HYDRAULIC OIL / FLUIDS)
CONCRETE CONCRETE	☐ ANTIFREEZE / COOLANTS
CONCRETE TRUCK WASTE	■ WASTE WATER FROM CLEANING CONSTRUCTION EQUIPMENT
☑ CONCRETE CURING COMPOUNDS	OTHER (SPECIFY)
☐ SOLID WASTE DEBRIS	OTHER (SPECIFY)
☐ PAINTS	OTHER (SPECIFY)
☐ SOLVENTS	OTHER (SPECIFY)
☐ FERTILIZERS / PESTICIDES	OTHER (SPECIFY)

II. CONTROLS

THIS SECTION OF THE PLAN ADDRESSES THE CONTROLS THAT WILL BE IMPLEMENTED FOR EACH OF THE MAJOR CONSTRUCTION ACTIVITIES DESCRIBED IN I.C. ABOVE AND FOR ALL USE AREAS, BORROW SITES, AND WASTE SITES. FOR EACH MEASURE DISCUSSED, THE CONTRACTOR WILL BE RESPONSIBLE FOR ITS IMPLEMENTATION AS INDICATED. THE CONTRACTOR SHALL PROVIDE TO THE RESIDENT ENGINEER A PLAN FOR THE IMPLEMENTATION OF THE MEASURES INDICATED. THE CONTRACTOR, AND SUBCONTRACTORS, WILL NOTIFY THE RESIDENT ENGINEER OF ANY PROPOSED CHANGES, MAINTENANCE, OR MODIFICATIONS TO KEEP CONSTRUCTION ACTIVITIES COMPLIANT WITH THE PERMIT. EACH SUCH CONTRACTOR HAS SIGNED THE REQUIRED CERTIFICATION ON FORMS WHICH WILL BE PROVIDED AT THE PRE-CONSTRUCTION CONFERENCE, AND ARE A PART OF, THIS PLAN.

- A. EROSION AND SEDIMENT CONTROL
- 1. STABILIZED PRACTICES: PROVIDED BELOW IS A DESCRIPTION OF INTERIM AND PERMANENT STABILIZATION PRACTICES. INCLUDING SITE SPECIFIC SCHEDULING OF THE IMPLEMENTATION OF THE PRACTICES. SITE PLANS WILL ENSURE THAT EXISTING VECETATION IS PRESERVED WHERE ATTAINABLE AND DISTURBED PORTIONS OF THE SITE WILL BE STABILIZED. STABILIZATION PRACTICES MAY INCLUDE BUT ARE NOT LIMITED TO: TEMPORARY SEEDING, PERMANENT SEEDING, MULCHING, GEOTEXTILES, SODDING, VEGETATIVE BUFFER STRIPS, PROTECTION OF TREES, PRESERVATION OF MATURE VEGETATION, AND OTHER APPROPRIATE MEASURES. EXCEPT AS PROVIDED BELOW IN II(A)(1)(a) AND II(A)(3), STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICABLE IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CRASED, BUT IN NO CASE MORE THAN 14 DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT PORTION OF THE SITE HAS TEMPORARILY OR PERMANENTLY CEASED ON ALL DISTURBED PORTIONS OF THE SITE WHERE CONSTRUCTION WILL NOT OCCUR FOR A PERIOD OF 21 OR MORE CALENDAR DAYS.
 - o. WHERE THE INITIATION OF STABILIZATION MEASURES BY THE 14TH DAY AFTER CONSTRUCTION ACTIVITY TEMPORARILY OR PERMANENTLY CEASES IS PRECLUDED BY SNOW COVER, STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICABLE THEREAFTER.

THE FOLLOWING STABILIZATION PRACTICES WILL BE USED FOR THIS PROJECT: (CHECK ALL THAT APPLY)

PRESERVATION OF MATURE VEGETATION	☑ EROSION CONTROL BLANKET / MULCHING
☐ VEGETATED BUFFER STRIPS	□ SODDING
☐ PROTECTION OF TREES	☐ GEOTEXTILES
☑ TEMPORARY EROSION CONTROL SEEDING	OTHER (SPECIFY)
☐ TEMPORARY TURF (SEEDING, CLASS 7)	OTHER (SPECIFY)
TEMPORARY MULCHING	OTHER (SPECIFY)
☑ PERMANENT SEEDING	OTHER (SPECIFY)

DESCRIBE HOW THE STABILIZATION PRACTICES LISTED ABOVE WILL BE UTILIZED

1. TEMPORARY EROSION CONTROL SEEDING - THIS ITEM WILL BE APPLIED TO ALL BARE AREAS EVERY SEVEN DAYS TO MINIMIZE THE AMOUNT OF EXPOSED SURFACE AREAS.

TEMPORARY EROSION CONTROL SEEDING SHALL BE APPLIED AT A RATE OF 100 LBS/ACRES.

EARTH STOCKPILES SHALL BE TEMPORARILY SEEDED IF THEY ARE TO REMAIN UNUSED FOR MORE THAN 14 DAYS.

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.

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 7 DAYS.

- 2. PERMANENT SEEDING SEEDING, CLASS 2A WILL BE INSTALLED PER IDOT SPECIFICATIONS.
- 3. EROSION CONTROL BLANKETS/MULCHING EROSION CONTROL BLANKETS WILL BE INSTALLED OVER FILL SLOPES AND IN HIGH VELOCITY AREAS (I.E. DITCHES) THAT HAVE BEEN BROUGHT TO FINAL GRADE AND SEEDED TO PROTECT SLOPES FROM EROSION AND ALLOW SEEDS TO GERMINATE. MULCH, METHOD 2 WILL BE APPLIED IN RELATIVELY FLAT AREAS TO PROTECT THE DISTURBED AREAS AND PREVENT FURTHER EROSION.

MULCH AS APPLIED TO TEMPORARY EROSION CONTROL SEEDING SHALL BE BY THE METHOD SPECIFIED IN THE CONTRACT AND AT THE DIRECTION OF THE ENGINEER. MULCH WILL BE PAID SEPARATELY AND SHALL CONFORM TO SECTION 251 OF THE STANDARD SPECIFICATIONS.

PERMANENT STABILIZATION - ALL AREAS DISTURBED BY CONSTRUCTION WILL BE STABILIZED WITH PERMANENT SEEDING IMMEDIATELY FOLLOWING THE FINISHED GRADING. EROSION CONTROL BLANKETS WILL BE INSTALLED OVER FILL SLOPES WHICH HAVE BEEN BROUGHT TO FINAL GRADE AND HAVE BEEN SEEDED TO PROTECT THE SLOPES FROM RILL AND GULLY EROSION AND ALLOW SEED TO GERMINATE PROPERLY. MULCH, METHOD 2 WILL BE USED ON RELATIVELY FLAT AREAS.

STA. TO STA. FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT

CONTRACT NO. 76961 TOTAL SHEETS NO.

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COUNTY

CLINTON

SECTION

27-1BR-1

1780

2. STRUCTURAL PRACTICES: PROVIDED BELOW IS A DESCRIPTION OF STRUCTURAL PRACTICES THAT WILL BE IMPLEMENTED, TO THE DEGREE ATTAINABLE, TO DIVERT FLOWS FROM EXPOSED SOILS, STORE FLOWS OR OTHERWISE LIMIT RUNOFF AND THE DISCHARGE OF POLLUTANTS FROM EXPOSED AREAS OF THE SITE. SUCH PRACTICES MAY INCLUDE BUT ARE NOT LIMITED TO: PERIMETER EROSION BARRIER, EARTH DIKES, DRAINAGE SWALES, SEDIMENT TRAPS, DITCH CHECKS, SUBSURFACE DRAINS, PIPE SLOPE DRAINS, LEVEL SPREADERS, STORM DRAIN INLET PROTECTION, ROCK OUTLET PROTECTION, REINFORCED SOIL RETAINING SYSTEMS, GABIONS, AND TEMPORARY OR PERMANENT SEDIMENT BASINS. THE INSTALLATION OF THESE DEVICES MAY BE SUBJECT TO SECTION 404 OF THE CLEAN WATER ACT.

THE FOLLOWING STRUCTURAL PRACTICES WILL BE USED FOR THIS PROJECT: (CHECK ALL THAT APPLY)

Z.	PERIMETER ERUSION BARRIER	LI RUCK OUTLET, PROTECTION .
\boxtimes	TEMPORARY DITCH CHECK	⊠ RIPRAP
\boxtimes	STORM DRAIN INLET PROTECTION	☐ GABIONS
	SEDIMENT TRAP	□ SLOPE MATTRESS
	TEMPORARY PIPE SLOPE DRAIN	☐ RETAINING WALLS
	TEMPORARY SEDIMENT BASIN	SLOPE WALLS
	TEMPORARY STREAM CROSSING	CONCRETE REVETMENT MATS
	STABILIZED CONSTRUCTION EXITS	□ LEVEL SPREADERS
	TURF REINFORCEMENT MATS	OTHER (SPECIFY)
	PERMANENT CHECK DAMS	OTHER (SPECIFY)
	PERMANENT SEDIMENT BASIN	OTHER (SPECIFY)
	AGGREGATE DITCH	OTHER (SPECIFY)
	PAVED DITCH	OTHER (SPECIFY)

DESCRIBE HOW THE STRUCTURAL PRACTICES LISTED ABOVE WILL BE UTILIZED:

1. PERIMETER EROSION BARRIER - SILT FENCES WILL BE PLACED ALONG THE CONSTRUCTION LIMITS IN AN EFFORT TO CONTAIN SILT AND RUNOFF FROM LEAVING THE SITE.

CONSTRUCT AT BEGINNING OF CONSTRUCTION. REMOVE AT END OF CONSTRUCTION.

2. TEMPORARY DITCH CHECKS - DITCH CHECKS WILL BE PLACED IN THE DITCH LOCATED ON THE NORTH SIDE OF THE ROAD BETWEEN STATION 20+00 AND 22+00. DITCH CHECKS ARE SHOWN ON THE EROSION CONTROL PLANS.

TEMPORARY DITCH CHECKS SHALL BE LOCATED AT EVERY 1.5 FT. FALL/RISE IN DITCH GRADE.

TEMPORARY DITCH CHECKS, AGGREGATE USES GRADING NO. 3- REMOVE AT END OF CONSTRUCTION.

STRAW BALES, HAY BALES, PERIMETER EROSION BARRIER AND SILT FENCE WILL NOT BE PERMITTED FOR TEMPORARY OR PERMANENT DITCH CHECKS. DITCH CHECKS SHALL BE COMPOSED OF AGGREGATE (IF SPECIFIED), ENVIROBERM, TRIANGULAR SILT DIKES, GEORIDGE AND ROLLED EXCELSION.

3. RIPRAP - STONE RIPRAP WITH FILTER FABRIC WILL BE USED AS PROTECTION FROM ABUTMENT TO ABUTMENT OF THE STRUCTURE TO PREVENT SCOURING AND EROSION. ADDITIONAL RIPRAP WILL BE USED TO CREATE WIERS AND JETTIES TO RE-ALIGN THE CHANNEL NATURALLY.

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.

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.

> ILLINOIS DEPARTMENT OF TRANSPORTATION STORM WATER POLLUTION PREVENTION PLAN

FAS ROUTE 1780 SECTION 27-1BR-1 CLINTON COUNTY SN 014-0030 (E) 0077 (P)

PLOT DATE: 12/12/2007

DATE

BDE 2342 (REV. 06/07)