

THIS PLAN HAS BEEN PREPARED TO COMPLY WITH THE PROVISIONS OF THE NPDES PERMIT NUMBER ILR10, 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:

- ILR10
[ ] ILR40 PERMIT NO. 0493

I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER 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
PRINT NAME
DEPUTY DIRECTOR OF HIGHWAYS
REGION FIVE ENGINEER
TITLE
IL DEPT. OF TRANSPORTATION
AGENCY

Mary Lamie
SIGNATURE
Dec 11, 2008
DATE

I. SITE DESCRIPTION:

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

THE PROJECT CONSISTS OF REMOVAL AND REPLACEMENT OF EXISTING WEATHERED STEEL PLATE GUARDRAIL AND TRAFFIC BARRIER TERMINALS ALONG FAI ROUTE 255 (I-255)/FAP ROUTE 310 (ILL 255) FROM HORSESHOE LAKE ROAD TO ILLINOIS ROUTE 143 IN MADISON COUNTY, ILLINOIS. NEW STEEL PLATE BEAM GUARDRAIL AND TERMINAL SECTIONS WILL BE INSTALLED WHICH MEET CURRENT IDOT STANDARDS.

WORK ITEMS INCLUDE BORROW EXCAVATION, SEEDING, TEMPORARY EROSION CONTROL MEASURES, STONE DUMPED RIPRAP, AGGREGATE SHOULDERS, PIPE DRAINS, METAL END SECTIONS, GUARDRAIL REMOVAL (SPECIAL), STEEL PLATE BEAM GUARDRAIL, STEEL PLATE BEAM GUARDRAIL (SPECIAL), TRAFFIC BARRIER TERMINALS, IMPACT ATTENUATORS (NON-REDIRECTIVE), TRAFFIC CONTROL AND ALL OTHER NECESSARY AND COLLATERAL WORK TO COMPLETE THE GUARDRAIL REPLACEMENT PROJECT AS SHOWN ON THE PLANS AND AS SPECIFIED ELSEWHERE IN THESE PROVISIONS.

B. THE FOLLOWING IS A DESCRIPTION OF THE CONSTRUCTION ACTIVITY WHICH IS THE SUBJECT OF THIS PLAN:

CONSTRUCTION WILL INCLUDE THE EXCAVATION FOR BORROW EXCAVATION, STEEL PLATE GUARDRAIL INSTALLATION AND TRAFFIC BARRIER INSTALLATION 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:

1. BORROW EXCAVATION WILL BE COMPLETED ALONG THE ENTIRE LENGTH OF THE JOB AT VARIOUS LOCATIONS TO GRADE FOR THE PROPOSED INSTALLATION OF GUARDRAIL AND TERMINAL SECTIONS.

2. PLACEMENT, MAINTENANCE, REMOVAL AND PROPER CLEAN-UP OF TEMPORARY EROSION CONTROL ITEMS INCLUDING PERIMETER EROSION BARRIER, SEEDING AND OTHER MISCELLANEOUS EROSION CONTROL MEASURES.

D. THE TOTAL AREA OF THE CONSTRUCTION SITE IS ESTIMATED TO BE 333 ACRES.

THE TOTAL AREA OF THE SITE THAT IS ESTIMATED WILL BE DISTURBED BY EXCAVATION, GRADING OR OTHER ACTIVITIES IS 1.5 ACRES.

E. THE FOLLOWING IS A WEIGHTED AVERAGE OF THE RUNOFF COEFFICIENT FOR THIS PROJECT AFTER CONSTRUCTION ACTIVITIES ARE COMPLETED: 0.52

F. THE FOLLOWING IS A DESCRIPTION OF THE SOIL TYPES FOUND AT THE PROJECT SITE FOLLOWED BY INFORMATION REGARDING THEIR EROSIVITY:

TWO SOIL TYPES ARE LOCATED WITHIN THE PROJECT AREA OF THE GUARDRAIL INSTALLATION AND IMPACT ATTENUATOR INSTALLATION ALONG FAP 310.

ORTHEMETS, SILTY, HILLY (801D) - A SOMEWHAT POORLY DRAINED SOIL WITH MODERATELY HIGH TO HIGH PERMEABILITY. THE SOIL IS MODERATELY SUSCEPTIBLE TO WATER EROSION AND IS LOW TO MODERATELY SUSCEPTIBLE TO WIND EROSION. THE SLOPES ARE 5 TO 35 PERCENT.

DARWIN SILTY CLAY (8071L) - A SOMEWHAT POORLY DRAINED SOIL WITH LOW TO MODERATELY LOW PERMEABILITY. THIS SOIL IS MODERATELY SUSCEPTIBLE TO WATER EROSION AND MODERATELY SUSCEPTIBLE TO WIND EROSION. THE SLOPES ARE 0 TO 2 PERCENT.

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

THERE ARE NO POTENTIALLY EROSION AREAS.

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

THE NATURE AND PURPOSE OF LAND DISTRIBUTING ACTIVITIES FOR THIS PROJECT ARE TO INSTALL STEEL PLATE GUARDRAIL AND TERMINAL END SECTIONS ALONG VARIOUS PORTIONS OF THE LENGTH OF THE PROJECT. BORROW EXCAVATION WILL OCCUR. THE LOCATIONS OF BORROW EXCAVATION INCLUDE TEN LOCATIONS FOR THE PROTECTION OF SIGN TRUSSES LOCATED WITHIN THE MEDIAN.

THE TWO SOIL TYPES HAVE MODERATED EROSION CHARACTERISTICS. THEY ARE MODERATELY SUSCEPTIBLE TO WATER EROSION AND MODERATELY SUSCEPTIBLE TO WIND EROSION.

I. SEE THE EXISTING AND PROPOSED GUARDRAIL REPLACEMENT PLAN SHEETS 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 CONTRACTORS 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 WATER INCLUDING WETLANDS.

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:

- CAHOKIA CREEK
CAHOKIA CANAL
COUNTY DITCH

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

- [x] SOIL SEDIMENT
[ ] CONCRETE
[ ] CONCRETE TRUCK WASTE
[ ] CONCRETE CURING COMPOUNDS
[ ] SOLID WASTE DEBRIS
[ ] PAINTS
[ ] SOLVENTS
[ ] FERTILIZERS / PESTICIDES
[x] PETROLEUM (GAS, DIESEL, OIL, KEROSENE, HYDRAULIC OIL/FLUIDS)
[x] ANTIFREEZE / COOLANTS
[ ] WASTE WATER FROM CLEANING CONSTRUCTION EQUIPMENT
[ ] OTHER (SPECIFY).....
[ ] OTHER (SPECIFY).....
[ ] OTHER (SPECIFY).....
[ ] OTHER (SPECIFY).....
[ ] 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 VEGETATION 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 CEASED, 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.

a. 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
[ ] VEGETATED BUFFER STRIPS
[ ] PROTECTION OF TREES
[x] TEMPORARY EROSION CONTROL SEEDING
[ ] TEMPORARY TURF (SEEDING, CLASS 7)
[ ] TEMPORARY MULCHING
[x] PERMANENT SEEDING
[ ] EROSION CONTROL BLANKET / MULCHING
[ ] SODDING
[ ] GEOTEXTILES
[ ] OTHER (SPECIFY).....
[ ] OTHER (SPECIFY).....
[ ] OTHER (SPECIFY).....
[ ] OTHER (SPECIFY).....

DESCRIBE HOW THE STABILIZATION PRACTICES LISTED ABOVE WILL BE UTILIZED:

1. DURING ROADWAY CONSTRUCTION, AREAS OUTSIDE THE CONSTRUCTION SLOPE LIMITS AS OUTLINED PREVIOUSLY HEREIN SHALL BE PROTECTED FROM DAMAGING EFFECTS OF CONSTRUCTION. THE CONTRACTOR SHALL NOT USE THIS AREA FOR STAGING (EXCEPT AS DESIGNATED ON THE PLANS OR DIRECTED BY THE ENGINEER), PARKING OF VEHICLES OR CONSTRUCTION EQUIPMENT, STORAGE OF MATERIALS, OR OTHER CONSTRUCTION RELATED ACTIVITIES.

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

EARTH STOCKPILES SHALL BE TEMPORARILY SEEDDED 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 SEEDDED AT THE BEGINNING OF CONSTRUCTION WHERE NO CONSTRUCTION ACTIVITIES ARE EXPECTED WITHIN 7 DAYS.

3. PERMANENT SEEDING - SEEDING, CLASS 2 WILL BE INSTALLED PER IDOT SPECIFICATIONS.

4. PERMANENT STABILIZATION - ALL AREAS DISTURBED BY CONSTRUCTION WILL BE STABILIZED WITH PERMANENT SEEDING IMMEDIATELY FOLLOWING THE FINISHED GRADING.

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)

- [x] PERIMETER EROSION BARRIER
[ ] TEMPORARY DITCH CHECK
[ ] STORM DRAIN INLET PROTECTION
[ ] SEDIMENT TRAP
[ ] TEMPORARY PIPE SLOPE DRAIN
[ ] TEMPORARY SEDIMENT BASIN
[ ] TEMPORARY STREAM CROSSING
[ ] STABILIZED CONSTRUCTION EXITS
[ ] TURF REINFORCEMENT MATS
[ ] PERMANENT CHECK DAMS
[ ] PERMANENT SEDIMENT BASIN
[ ] AGGREGATE DITCH
[ ] PAVED DITCH
[ ] ROCK OUTLET PROTECTION
[x] RIPRAP
[ ] GABIONS
[ ] SLOPE MATTRESS
[ ] RETAINING WALLS
[ ] SLOPE WALLS
[ ] CONCRETE REVETMENT MATS
[ ] LEVEL SPREADERS
[ ] OTHER (SPECIFY).....
[ ] OTHER (SPECIFY).....
[ ] OTHER (SPECIFY).....
[ ] OTHER (SPECIFY).....

DESCRIBE HOW THE STRUCTURAL PRACTICES LISTED ABOVE WILL BE UTILIZED:

1. PERIMETER EROSION BARRIER - SILT FENCES WILL BE PLACED ALONG THE BORROW EXCAVATION AREAS AS SHOWN ON THE PLANS IN AN EFFORT TO CONTAIN SILT AND RUNOFF FROM LEAVING THE SITE.

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

3. MULCH METHOD 1 AS APPLIED TO TEMPORARY SEEDING SHALL CONFORM TO SECTION 261 OF THE STANDARD SPECIFICATIONS. MULCH WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE PRICE FOR TEMPORARY SEEDING.

4. CONSTRUCT PERIMETER EROSION CONTROL AT BEGINNING OF CONSTRUCTION. REMOVE AT END OF CONSTRUCTION

5. 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.

6. 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.

7. TEMPORARY SEEDING AND MULCH SHALL BE APPLIED TO ALL ERODIBLE BARE EARTH AREAS EVERY 7 DAYS AND SHALL BE IN ACCORDANCE WITH THE TEMPORARY EROSION CONTROL SEEDING SPECIAL PROVISIONS.

\*FAI 255/FAP 310

Table with project details including FILE NAME, USER NAME, DESIGNED, REVISED, DRAWN, CHECKED, DATE, SCALE, SHEET NO., SECTION, COUNTY, TOTAL SHEETS, SHEET NO., CONTRACT NO., and FED. ROAD DIST. NO.