

THIS PLAN HAS BEEN PREPARED TO COMPLY WITH THE PROVISIONS OF THE NPDES PERMIT NUMBER ILR10, ISSUED BY THE ILLINOIS ENVIRONMENTAL PROTECTION AGENCY FOR STORM WATER DISCHARGES FROM CONSTRUCTION SITE ACTIVITIES.

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 C. Lamie
SIGNATURE
10-15-09
DATE

I. SITE DESCRIPTION:

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

THE PROJECT IS LOCATED ALONG ILLINOIS ROUTE 159 IN MADISON AND ST. CLAIR COUNTIES FROM JUST SOUTH OF CHURCH STREET TO JUST NORTH OF SOUTH MORRISON AVENUE IN COLLINSVILLE, ILLINOIS.

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

THE INTENT OF THIS PROJECT IS TO WIDEN ILLINOIS ROUTE 159 ON BOTH SIDES TO PROVIDE ADDITIONAL LANES AND TO ADD CURB, GUTTER, AND STORM SEWER TO IMPROVE DRAINAGE.

THIS WORK CONSISTS OF RECONSTRUCTING THE PAVEMENT TO A 55' WIDTH, ELIMINATING THE EXISTING AGGREGATE SHOULDER AND IMPROVING THE ROADWAY TO AN URBAN SECTION.

IN ADDITION TO THE PAVEMENT WIDENING AND RECONSTRUCTION, THE IMPROVEMENTS INCLUDE EARTH EXCAVATION AND EMBANKMENT, THE CONSTRUCTION OF ENTRANCE APRONS AND SIDEWALKS ALONG 159 AS WELL AS ROAD IMPROVEMENTS TO SIDE ROADS.

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:

MILLING, EXCAVATION, AND EARTH FILL WILL BE DONE DURING PAVEMENT WIDENING.

D. THE TOTAL AREA OF THE CONSTRUCTION SITE IS ESTIMATED TO BE 117 ACRES.

THE TOTAL AREA OF THE SITE THAT IS ESTIMATED WILL BE DISTURBED BY EXCAVATION, GRADING OR OTHER ACTIVITIES IS 6 ACRES.

E. THE FOLLOWING IS A WEIGHTED AVERAGE OF THE RUNOFF COEFFICIENT FOR THIS PROJECT AFTER CONSTRUCTION ACTIVITIES ARE COMPLETED: 0.19

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

GENERAL SUBSURFACE PROFILES WERE DEVELOPED ALONG THE PROPOSED ALIGNMENT. THE SOIL PROFILES CONSIST MAINLY OF SILT, SILT LOAM, SILTY CLAY AND SILTY CLAY LOAM. THE SOILS ENCOUNTERED ALONG THE SUBJECT CORRIDOR AS LISTED THROUGH THE NCRS SOIL SURVEY INCLUDE WAKELAND SILT LOAM, SYLVAN-BOLD SILT LOAMS, MENFRO-ORTHENTS-URBAN AND WINFIELD-ORTHNETS-URBAN. VERY WEATHERED SHALE WAS ENCOUNTERED AT ONE LOCATION AS REFERENCED IN THE GEOTECH REPORT HEREBY INCLUDED AS A REFERENCE TO THIS SHEET. INDIVIDUAL BORING LOGS AND LOCATIONS OF THE BORINGS CAN ALSO BE FOUND IN THE GEOTECH REPORT.

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

THE REQUIRED FACTOR OF SAFETY WAS MET AND SLOPE STABILITY IS NOT ANTICIPATED TO BE A PROBLEM ALONG THIS ALIGNMENT. SETTLEMENT IS CONSIDERED NEGLIGIBLE AND SHOULD HAVE LITTLE TO NO IMPACT ON THE ROADWAY. REFERENCE THE APPROVED ROADWAY GEOTECHNICAL REPORT FOR ADDITIONAL SUBSURFACE INFORMATION.

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

SOILS WILL BE DISTURBED WITHIN THE CONSTRUCTION AREA TO THE EXTENT OF CONSTRUCTION OF SIDE SLOPES AND DITCHES. BETWEEN STATIONS 137+00 AND 139+00, CUT AND FILL HEIGHTS ARE GREATER THAN 15 FEET AND AT 2:1 SLOPES. SLOPE STABILITY IN THIS AREA WAS FOUND TO BE ADEQUATE.

I. 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 NONSTRUCTURAL 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:

SEE THE FULL APPROVED DRAINAGE REPORT FOR A LIST OF THE RECEIVING WATERS.

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

- SOIL SEDIMENT
- CONCRETE
- CONCRETE TRUCK WASTE
- CONCRETE CURING COMPOUNDS
- SOLID WASTE DEBRIS
- PAINTS
- SOLVENTS
- FERTILIZERS / PESTICIDES
- PETROLEUM (GAS, DIESEL, OIL, KEROSENE, HYDRAULIC OIL/FLUIDS)
- ANTIFREEZE / COOLANTS
- WASTE WATER FROM CLEANING CONSTRUCTION EQUIPMENT
- 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 ARE ATTACHED TO, 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 7 DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT PORTION OF THE SITE HAS TEMPORARILY OR PERMANENTLY CEASES ON ALL DISTURBED PORTIONS OF THE SITE WHERE CONSTRUCTION WILL NOT OCCUR FOR A PERIOD OF 14 OR MORE CALENDAR DAYS.

2. WHERE THE INITIATION OF STABILIZATION MEASURES BY THE 7TH 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
- TEMPORARY EROSION CONTROL SEEDING
- TEMPORARY TURF (SEEDING, CLASS 7)
- TEMPORARY MULCHING
- 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:

ALTHOUGH SOME TREES WILL BE REQUIRED TO BE REMOVED IN ORDER TO ALLOW FOR CONSTRUCTION ACTIVITY, EXCAVATION, AND EMBANKMENT, EXISTING VEGETATION AND TREES THAT ARE NOT MARKED TO BE REMOVED ON THE LANDSCAPE PLAN SHALL BE PROTECTED AND PRESERVED, UNLESS OTHERWISE DEEMED NECESSARY FOR REMOVAL PER THE ENGINEER. TEMPORARY EROSION CONTROL SEEDING WILL BE UTILIZED AS DENOTED IN THE STANDARD SPECIFICATIONS OF ROAD AND BRIDGE CONSTRUCTION. PERMANENT SEEDING WILL BE DONE AFTER COMPLETION OF CONSTRUCTION ACTIVITIES. THE INTENT OF THESE STABILIZATION PRACTICES IS TO PROVIDE PROTECTION FROM EROSION AND CONTROL OF SEDIMENT IN AREAS OF DISTURBANCE AS SOON AS POSSIBLE. EROSION CONTROL BLANKET WILL BE PLACED ON ALL SIDE SLOPES GREATER THAN 3:1. TEMPORARY CONTROLS WILL BE IMPLEMENTED AS SOON AS PRACTICABLE.

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:

- 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
- 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:

INLET AND PIPE PROTECTION WILL BE PLACED AT THE UPSTREAM END OF PIPE CULVERTS AND AT ALL PROPOSED INLETS TO PROTECT FROM SEDIMENTATION DUE TO EARTH EXCAVATION AND EMBANKMENT ACTIVITIES (SEE PLAN SCHEDULE OF QUANTITIES AND EROSION CONTROL PLAN SHEETS.) RIPRAP WILL BE PLACED AT THE DISCHARGE LOCATION OF ALL PIPES AND ALONG THE LENGTH OF ANY OUTFALL CHANNEL THAT CARRIES WATER HAVING A VELOCITY GREAT ENOUGH TO ERODE DOWNSTREAM SOILS. SEE THE EROSION CONTROL PLANS FOR LOCATIONS WHERE RIPRAP WILL BE REQUIRED.

PERIMETER EROSION CONTROL BARRIER WILL BE UTILIZED IN PLACES WHERE SEDIMENTATION MAY ESCAPE THE RIGHT-OF-WAY (SEE THE EROSION CONTROL PLAN FOR LOCATIONS.)

TEMPORARY DITCH CHECKS WILL BE PLACED AS INDICATED IN THE EROSION CONTROL PLAN.

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.

FILE NAME = D076830-shr-swppp.dgn	USER NAME = cha	DESIGNED - CHA	REVISED - 4-20-09	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SWPPP PLAN				F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
		DRAWN - CHA	REVISED -		SCALE:	SHEET NO.	OF	SHEETS	STA.	TO STA.	600	60-(30,31,128)-1	399	147A
		CHECKED -	REVISED -						CONTRACT NO. 76830					
		DATE - 8-23-09	REVISED -		FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT									