THIS PLAN HAS BEEN PREPARED TO COMPLY WITH THE PROVISIONS OF THE NPDES PERMIT NUMBER ILRIO, ISSUED BY THE ILLINOIS ENVIRONMENTAL PROTECTION AGENCY 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 MUNIICPALISEPANTE STORM SEWER SYSTEMS IF CHECKED BELOW: X IL R40 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	SIGNATURE			
DEPUTY DIRECTOR OF HIGHWAYS				
REGION FIVE ENGINEER				
TITLE	DATE			

I. SITE DESCRIPTION:

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

THE PROJECT IS LOCATED IN MADISON COUNTY ALONG A SECTION OF I-55/70 FROM APPROXIMATELY 1.3 MILES EAST OF THE ILLINOIS ROUTE 157 TO MILE POINT 15.9.

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

THIS PROJECT WILL CONSIST OF THE INSTALLATION OF PVC CONDUIT AND FIBER OPTIC CABLE FOR NECESSARY FOR THE OPERATION OF THE PREVIOUSLY PLACED ITS EQUIPMENT WITHIN THE PROJECT LIMITS. CONDUIT WILL BE PLACED IN THE GROUND UTILIZING CUT TRENCHES AND ALSO PUSHED UNDER
THE PAVEMENT. OTHER ITEMS OF WORK INCLUDE THE CONS RUCTION OF CONCRETE HAND HOLES, INSTALLATION OF CAMERA LOWERING DEVICES, AND INSTALLATION OF CONTROLLER EQUIPMENT INTO PREVIOUS CONSTRUCTED CABINETS.

- C. THIS PROJECT WILL NOT BE STAGED; HOWEVER, THE MAJOR ITEM OF WORK WHICH DISTURB THE SOIL WITHIN THE PROJECT LIMITS WILL BE THE PLACEMENT OF THE PVC CONDUIT IN A TRENCH. THIS WORK WILL BEGIN IMMEDIATELY AND CONTINUE THROUGH PROJECT COMPLETION.
- D. THE TOTAL AREA OF THE CONSTRUCTION SITE IS ESTIMATED TO BE 1.25 ACRES.

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

- E. THE FOLLOWING IS A WEIGHTED AVERAGE OF THE RUNOFF COEFFICIENT FOR THIS PROJECT AFTER CONSTRUCTION ACTIVITIES ARE COMPLETED: 0.65
- F. THE FOLLOWING IS A DESCRIPTION OF THE SOIL TYPES FOUND AT THE PROJECT SITE FOLLOWED BY INFORMATION

SEVENTEEN SOIL TYPES HAVE BEEN IDENTIFIED WITHIN THE PROJECT SITE. APPROXIMATELY 70% OF THE PROJECT SITE CONSISTS OF TWO SOIL TYPES: ORTHENTS SILT AND MENFRO SILT LOAM,

ORTHENTS SILT (801D)--A SOMEWHAT POORLY DRAINED SOIL WITH MODERATE PERMEABILITY. THIS DISTURBED SOIL HAS BEEN USED AS ROAD FILL FOR I-70, ITS RAMPS AND OTHER ROADS IN MADISON COUNTY, THIS SOIL HAS A SLIGHT SUSCEPTIBILITY TO WATER AND WIND EROSION BASED ON ITS PRESENT SLOPES.

MENFRO SILT LOAM (798)--A GENERALLY WELL DRAINED SOIL WITH MODERATE PERMEABILITY. THIS DISTURBED SOIL HAS IDENTICAL VALUES TO ORTHENTS SILT FOR WATER AND WIND EROSION SUSCEPTIBILITY.

APPROXIMATELY 30% OF THE PROJECT SITE CONTAINS THE FOLLOWING SOILS.

WILBUR SILT LOAM (3336A)--A MODERATELY WELL DRAINED SILTY ALLUVIUM WITH MODERATE PERMEABILITY. THIS SOIL IS TYPICALLY FOUND IN FLOOD PLAINS.

CASEYVILLE SILT LOAM (267A)--A SOMEWHAT POORLY DRAINED SOIL WITH MODERATE PERMEABILITY. THIS SOIL IS TYPICALLY FOUND ON NEARLY LEVEL SUMMITS.

EDWARDSVILLE SILT LOAM (384A)--A SOMEWHAT POORLY DRAINED SOIL WITH MODERATE PERMEABILITY. THIS SOIL II. CONTROLS IS TYPICALLY FOUND IN GENTLY SLOPING AREAS.

MASCOUTAH SILTY CLAY LOAM (385A)--A POORLY DRAINED SOIL WITH A MODERATE PERMEABILITY. THIS SOIL IS THE ONLY SOIL IN THE PROJECT SITE THAT MEETS THE DEFINITION OF A HYDRIC SOIL. THIS SOIL IS TYPICALLY FOUND IN AREAS BETWEEN TWO DRAINAGEWAYS THAT SHEDS WATER TO THOSE DRAINAGEWAYS. HOWEVER, NO WETLAND IS ASSOCIATED WITH THIS SOIL IN ITS LOCATION TO THE PROJECT SITE.

WINFIELD-ORTHENTS-URBAN LAND COMPLEX (24778)--A MODERATELY WELL DRAINED SOIL WITH MODERATE PERMEABILITY THAT HAS BEEN ALTERED THROUGH CUT AND FILL ACTIVITY.

ORION SILT LOAM (3415A)--A SOMEWHAT POORLY DRAINED SOIL WITH MODERATE PERMEABILITY THAT IS TYPICALLY FOUND IN FLOOD PLAINS.

WINFIELD SILT LOAM (4778)--A MODERATELY WELL DRAINED SOIL WITH MODERATE PERMEABILITY. THIS SOIL IS TYPICALLY FOUND WHERE EROSIONAL SIDE SLOPES ARE PRESENT.

WINFIELD SILTY CLAY LOAM (47703)--LIKE WINFIELD SILT LOAM, THIS SOIL IS MODERATELY WELL DRAINED WITH

SYLVAN-BOLD SILT LOAM (962D2)--A WELL DRAINED SOIL WITH MODERATE PERMEABILITY. THIS SOIL IS USUALLY FOUND ON HILL SLOPES.

SYLVAN BOLD SILT LOAM (962F2)--VIRTUALLY IDENTICAL TO SYLVAN-BOLD SILT LOAM 962D2 DESCRIBED ABOVE.

MENFRG SILT LOAM (7902)-- A WELL DRAINED SOIL WITH MODERATE PERMEABILITY THAT IS TYPICALLY FOUND ON SUMMITS, SLOPES AND BACKSLOPES.

MENFRO SILTY CLAY LOAM (79D3)--A WELL DRAINED SOIL WITH MODERATE PERMEABILITY THAT IS USUALLY FOUND ON EROSIONAL SIDE SLOPES.

MENFRO SILT LOAM (79F)--LIKE THE OTHER MENFRO SILTS, THIS IS A WELL DRAINED SOIL WITH MODERATE PERMEABILITY. THIS SOIL IS USUALLY FOUND ON SIDE SLOPES.

DOWNSOUTH SILT LOAM (283B) -- A MODERATELY WELL DRAINED SCIL WITH MODERATE PERMEABILITY THAT IS TYPICALLY FOUND ON SUMMITS, SLOPES AND BACKSLOPES. ORTHENTS SILTY UNDULATING (801B)--A SOMEWHAT POORLY DRAINED SOIL TYPICALLY FOUND ON TILL PLAINS. PERMEABILTY FOR THIS SOIL RANGES FROM MODERATELY SLOW TO MODERATE.

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

AREAS MOST SUSCEPTIBLE TO ERCSION ON THIS PROJECT ARE WHERE TWO WINFIELD SILT LOAMS, TWO SYLVAN-BOLD SILT LOAMS, AND TWO MENFRO SILT LOAMS ARE PRESENT AT SLOPES THAT EXCEED 2 PERCENT. THE CUMULATIVE LINEAR AREA WHERE THESE SOILS ARE FOUND IS LESS THAN 1 1/2 MILES LOCATED BETWEEN 1.0 MILE NORTH OF IL 157 AND 1.0 MILE EAST OF THE IL 159 INTERCHANGE.

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):

TWO TYPES OF SOIL DISTURBING WILL OCCUR ON THIS PROJECT. 1. CONDUIT IN TRENCH 2, HAND HOLE CONSTRUCTION. TRENCHED CONDUIT WILL BE PLACED IN A 2 FOOT WIDE TRENCH APPROXIMATELY 3 FEET DEEP IN THE MEDIAN OF INTERSTATE 55/70 WITHIN THE PROJECT LIMITS. TEMPORARY AND PERMANENT SEEDING WILL BE UTILIZED TO MITIGATE EROSION AT TRENCH LOCATIONS. SEVERAL HAND HOLES WILL BE CONSTRUCTED WITHIN THE MEDIAN AND AT CABINET FOUNDATIONS THROUGHOUT THE PROJECT LIMITS. SEEDING WILL ALSO BE UTILIZED AT THESE LOCATIONS. MEDIAN DRAINAGE STRUCTURES ARE LOCATED NEAR THE WEIGH STATION AND PERIMETER INLET PROTECTION SHALL BE USED TO PROTECT THESE INLETS. THE PROJECT HAS NO OFF- SITE SOIL DISTURBING CONSTRUCTION ACTIVITIES.

- 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 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:

CANTEEN CREEK AND A DRAINAGE DITCH THAT EMPTIES INTO THE WENDELL BRANCH OF SILVER CREEK, NO WETLANDS ARE PRESENT ON THIS PROJECT.

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

☑ SOIL SEDIMENT EL CONCRETE CONCRETE TRUCK WASTE

☐ PETROLEUM (GAS, DIESEL, OIL, KEROSENE, HYDRAULIC OIL/FLUIDS) [] ANTIFREEZE / COOLANTS ☐ WASTE WATER FROM CLEANING CONSTRUCTION EQUIPMENT

CONCRETE CURING COMPOUNDS OTHER (SPECIFY)_____ OTHER (SPECIFY)____ ☐ SOLID WASTE DEBRIS

OTHER (SPECIFY)_____ ☐ PAINTS OTHER (SPECIFY) ☐ SOLVENTS OTHER (SPECIFY)_____

☐ FERTILIZERS / PESTICIDES

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. FROSION AND SEDIMENT CONTROL

- 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.
- TEMPORARY EROSION CONTROL SEEDING, PERMANENT SEEDING, EROSION CONTROL BLANKET/MULCH TEMPORARY EROSION CONTROL SEEDING - THIS WILL BE APPLIED TO ALL BARE AREAS, AS DETERMINED BY THE ENGINEER. TO MINIMIZE THE AMOUNT OF EXPOSED SURFACE AREA. PERMANENT SEEDING - SEEDING CLASS 2 WILL BE USED PER IDOT SPECIFICATIONS. MULCHING - MULCH WILL BE APPLIED WHEN THE PERMANENT SEEDING IS DONE. EROSION CONTROL BLANKET WILL NOT BE NEEDED.

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

DESCRIBE HOW THE STABILIZATION PRACTICES LISTED ABOVE WILL BE LITELIZED:

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 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 2 WILL BE INSTALLED PER IDOT SPECIFICATIONS.
- 3. 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.
- 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 M STORM DRAIN INLET PROTECTION ☐ SEDIMENT TRAP

TEMPORARY PIPE SLOPE DRAIN T TEMPORARY SEDIMENT BASIN

☐ TEMPORARY STREAM CROSSING ☐ STABILIZED CONSTRUCTION EXITS TI TURE REINFORCEMENT MATS

T PERMANENT CHECK DAMS ☐ PERMANENT SEDIMENT BASIN AGGREGATE DITCH

EL PAVED DITCH

☐ RIPRAP CI GABIONS ☐ SLOPE MATTRESS ☐ RETAINING WALLS TI SLOPE WALLS CONCRETE REVETMENT MATS □ LEVEL SPREADERS CLOTHER (SPECIFY)

☐ ROCK OUTLET PROTECTION

□ OTHER (SPECIFY)_. OTHER (SPECIFY)____ OTHER (SPECIFY)_____ CL OTHER (SPECIFY)

DESCRIBE HOW THE STRUCTURAL PRACTICES LISTED ABOVE WILL BE UTILIZED:

1. STORM DRAIN INLET PROTECTION - INLET AND PIPE PROTECTION WILL BE PROVIDED FOR STORM SEWERS AND CULVERTS. SEDIMENT FILTERS WILL BE PLACED IN ALL INLETS, CATCH BASINS AND MANHOLES DURING CONSTRUCTION AND WILL BE CLEANED ON A REGULAR BASIS.

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.

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STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

	SWPPP PLAN						F.A.I. RTE.		TION	COUNTY	TOTAL SHEETS	SHEET NO.
							55/70	DIST 8	ITS 2011-1	MADISON	39	17
							1			CONTRACT	NO.	76E82
	SCALE:	SHEET NO.	0F	SHEETS	STA.	TO STA.			ILLINOIS FED. A	ID PROJECT		