

# EROSION CONTROL PLAN & STORMWATER POLLUTION PREVENTION PLAN

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.U. 3706	00-00068-00-BR	LAKE	50	13
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT: BRM-7003(876)	

CONTRACT NO. 83806

THIS PROJECT DISTURBS 2.1 ACRES OF TOTAL LAND AREA. COMPLIANCE WITH THE NATIONAL POLLUTION DISCHARGE ELIMINATION SYSTEM (NPDES) STORMWATER PERMIT IS NECESSARY IF A PROJECT DISTURBS 1 OR MORE ACRES OF TOTAL LAND AREA; AN NPDES STORMWATER PERMIT WILL BE REQUIRED FOR THIS PROJECT. SEE SWPPP IN SPECIAL PROVISIONS.

SEEDING & TEMPORARY EROSION CONTROL SEEDING							
LOCATION	CLASS 4B	TEMPORARY EROSION CONTROL SEEDING	SEEDING (COMPLETE)				
			CLASS 2A	NITROGEN	POTASSIUM	EROSION CONTROL BLKT. (SPL)	TOPSOIL 4"
	ACRES	100 LB/ACRE/APP.*	SQ YD	90 LB/ACRE	90 LB/ACRE	SQ YD	SQ YD
LT. STA. 119+50 TO STA. 124+50		116	1,403	26	26	1,403	1,403
RT. STA. 119+50 TO STA. 124+50		120	1,440	27	27	1,440	1,440
LT. STA. 125+10 TO STA. 129+00		96	1,133	21	21	1,133	1,133
RT. STA. 125+10 TO STA. 128+43		76	893	17	17	893	893
RT. STA. 128+77 TO STA. 129+00		4	36	1	1	36	36
LT. WETLAND	0.02						
RT. WETLAND	0.02						
TOTAL	0.04	412	4,905	92	92	4,905	4,905

\* 4 APPLICATIONS

### SEDIMENTATION AND SOIL EROSION CONTROL NOTES

- SOIL EROSION AND SEDIMENT CONTROL FEATURES SHALL BE CONSTRUCTED PRIOR TO THE COMMENCEMENT OF UPLAND DISTURBANCE. SOIL DISTURBANCE SHALL BE CONDUCTED IN SUCH A MANNER TO MINIMIZE EROSION. SOIL STABILIZATION MEASURES SHALL CONSIDER THE TIME OF YEAR, SITE CONDITIONS AND THE USE OF TEMPORARY OR PERMANENT MEASURES.
- SOIL EROSION AND SEDIMENT CONTROL FEATURES SHALL BE CONSTRUCTED PRIOR TO THE COMMENCEMENT OF HYDROLOGIC DISTURBANCE OF UPLAND AREAS.
- DISTURBED AREAS SHALL BE STABILIZED WITH TEMPORARY OR PERMANENT MEASURES WITHIN 14 CALENDAR DAYS OF THE END OF ACTIVE HYDROLOGIC DISTURBANCE, OR REDISTURBANCE.
- AREAS OR EMBANKMENTS HAVING SLOPES GREATER THAN OR EQUAL TO 3H:1V, AND APPROVED BY THE ENFORCEMENT OFFICER, SHALL BE STABILIZED WITH SOD, MAT OR BLANKET IN COMBINATION WITH SEEDING.
- EROSION CONTROL BLANKET SHALL BE REQUIRED ON ALL INTERIOR DETENTION BASIN SIDE SLOPES BETWEEN NORMAL WATER LEVEL AND HIGH WATER LEVEL.
- ALL STORM SEWERS THAT ARE OR WILL BE FUNCTIONING DURING CONSTRUCTION SHALL BE PROTECTED, BY AN APPROPRIATE SEDIMENT CONTROL MEASURE.
- ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED WITHIN 30 DAYS AFTER FINAL SITE AREAS HAVE BEEN STABILIZED WITH VEGETATION OR TEMPORARY MEASURES ARE NO LONGER NEEDED.
- ALL TEMPORARY EROSION CONTROL MEASURES MUST BE MAINTAINED AND IMMEDIATELY REPLACED AS NEEDED AS DIRECTED BY THE ENGINEER. THE CONTRACTOR WILL BE RESPONSIBLE FOR ALL INSPECTION AND REPAIR. THE CONTRACTOR SHALL INSPECT AND COMPLETE MAINTENANCE OF ALL ITEMS A MINIMUM OF EVERY 7 DAYS AND WITHIN 24 HOURS OF A ONE-HALF INCH RAINFALL.
- A STABILIZED MAT OF AGGREGATE UNDERLAIN WITH FILTER CLOTH (OR OTHER APPROPRIATE MEASURE) SHALL BE LOCATED AT ANY POINT WHERE TRAFFIC WILL BE ENTERING OR LEAVING A CONSTRUCTION SITE TO OR FROM A PUBLIC RIGHT-OF-WAY, STREET, ALLEY OR PARKING AREA. ANY SEDIMENT OR SOIL REACHING AN IMPROVED PUBLIC RIGHT-OF-WAY, STREET, ALLEY OR PARKING AREA SHALL BE REMOVED BY SCRAPING OR STREET CLEANING AS ACCUMULATIONS WARRANT AND TRANSPORTED TO A CONTROLLED SEDIMENT DISPOSAL AREA. THE PAVEMENT SHALL BE CLEANED DAILY TO THE SATISFACTION OF THE ENGINEER.
- SOIL STOCKPILES SHALL NOT BE LOCATED IN A FLOOD PRONE AREA OR A DESIGNATED BUFFER PROTECTING WATERS OF THE UNITED STATES OR ISOLATED WATERS OF LAKE COUNTY.
- IF DEWATERING SERVICES ARE USED, ADJOINING PROPERTIES AND DISCHARGE LOCATIONS SHALL BE PROTECTED FROM EROSION. DISCHARGES SHALL BE ROUTED THROUGH AN EFFECTIVE SEDIMENT CONTROL MEASURE (e.g. SEDIMENT TRAP, SEDIMENT BASIN, OR OTHER APPROPRIATE MEASURE).
- THE EROSION CONTROL MEASURES INDICATED ON THE PLANS ARE THE MINIMUM REQUIREMENTS. THE CONTRACTOR SHALL ALSO TAKE SPECIAL NOTE TO THE CONTRACT SPECIAL PROVISION "EROSION CONTROL PLAN". ADDITIONAL MEASURES MAY BE REQUIRED, AS DIRECTED BY THE ENGINEER. ALL MEASURES SHALL BE IN PLACE WITHIN 4 DAYS OF INITIAL DISTURBANCE.
- THE BARRIER INSTALLATION, MAINTENANCE, REMOVAL AND THE RESTORATION OF THE AREA DISTURBED BY THE BARRIER INSTALLATION IS INCLUDED IN COST OF THE PAY ITEM PERIMETER EROSION BARRIER.
- TEMPORARY DITCH CHECKS SHALL BE TRIANGULAR SILT DIKES AND CONSTRUCTED AS PER CONTRACT SPECIAL PROVISIONS ON 100 FEET CENTERS AS SHOWN HEREIN OR AS DIRECTED BY THE ENGINEER. THE DITCH CHECKS SHALL BE INSTALLED IMMEDIATELY AS GRADING PROGRESSES THROUGH THE PROJECT. THE PAY ITEM FOR TEMPORARY DITCH CHECKS (SPECIAL) SHALL INCLUDE THE COST OF INSTALLATION, MAINTENANCE AND REMOVAL. ONLY TRIANGULAR SILT DIKES OR AN APPROVED EQUAL SHALL BE USED. REMOVAL OF TRAPPED SEDIMENT SHALL BE PAID FOR AS EARTH EXCAVATION. SEDIMENT SHALL BE REMOVED WHEN SILTATION REACHES 50% CAPACITY OF STRUCTURE.
- THE CONTRACTOR SHALL CONTACT THE LAKE COUNTY STORMWATER MANAGEMENT COMMISSION AS SOON AS INITIAL EROSION CONTROL PRACTICES ARE INSTALLED.
- THE CONTRACTOR SHALL MAINTAIN AND PRESERVE ANY EXISTING SUB SURFACE DRAINAGE SYSTEMS (i.e. FIELD TILES) ACCORDING TO SECTION 611 OF THE IDOT STANDARD SPECIFICATIONS. ALL STORM SEWERS THAT ARE OR WILL BE FUNCTIONING DURING CONSTRUCTION SHALL BE PROTECTED, FILTERED, OR OTHERWISE TREATED TO REMOVE SEDIMENT.
- TURBIDITY BARRIER SHALL BE LOCATED DOWNSTREAM OF CONSTRUCTION IN A LOCATION TO BE DETERMINED BY THE ENGINEER AND INSTALLED AS PER MANUFACTURER'S SPECIFICATIONS AND CONTRACT SPECIAL PROVISIONS.

SEE APPLICABLE STANDARDS, SPECIFICATIONS, AND SPECIAL PROVISIONS FOR:

- EROSION AND SEDIMENT CONTROL
- IDOT HIGHWAY STANDARD 280001
- REMOVAL OF EXISTING STRUCTURES
- UNDERWATER STRUCTURE EXCAVATION PROTECTION
- PERIMETER EROSION BARRIER
- TEMPORARY DITCH CHECKS (SPECIAL)
- EROSION CONTROL BLANKET
- TURBIDITY BARRIER

EROSION CONTROL BLANKET	
LOCATION	QUANTITY
KELSEY ROAD	SQ YD
LT. STA. 122+00 TO STA. 124+10	810
RT. STA. 122+00 TO STA. 124+10	963
LT. STA. 125+30 TO STA. 126+50	649
RT. STA. 125+30 TO STA. 126+50	604
TOTAL	3,026
USE	3,030

UNDERWATER STR. EXCAVATION PROTECTION	
LOCATION	EACH
LOCATION 1 STA. 124+65	1
LOCATION 2 STA. 124+80	1
TOTAL	2

TEMPORARY DITCH CHECKS (SPECIAL)	
LOCATION	QUANTITY
LT. STA. 120+00	2
LT. STA. 121+50	2
RT. STA. 121+50	2
TOTAL	6

PERIMETER EROSION BARRIER	
LOCATION	QUANTITY
KELSEY ROAD	FOOT
LT. STA. 121+95 TO STA. 124+60	265
RT. STA. 121+95 TO STA. 124+74	279
LT. STA. 124+80 TO STA. 129+00	420
RT. STA. 124+84 TO STA. 129+00	416
TOTAL	1,380
USE	1,500

TURBIDITY BARRIER	
LOCATION	QUANTITY
KELSEY ROAD	FOOT
55' LT. STA. 124+45± TO STA. 124+95±	50

### NOTES

- TOPSOIL (4") SHALL BE PLACED ON ALL UNPAVED DISTURBED AREAS WITHIN LIMITS OF THE IMPROVEMENT.
- PERMANENT SEEDING SHALL CONSIST OF "SEEDING, CLASS 2A SPL", COMPLETED ON ALL UNPAVED AREAS WITHIN THE LIMITS OF THE IMPROVEMENT.
- TEMPORARY SEEDING SHALL CONSIST OF "TEMPORARY SEEDING FOR EROSION CONTROL" ON ALL UNPAVED AREAS WITHIN THE LIMITS OF THE IMPROVEMENT.
- UNDERWATER STRUCTURE EXCAVATION PROTECTION SHALL BE INSTALLED TO PREVENT SEDIMENT FROM ENTERING THE STREAM DURING REMOVAL OF THE EXISTING SUBSTRUCTURE AND CONSTRUCTION OF THE PROPOSED SUBSTRUCTURE.

### TYPICAL CONSTRUCTION SEQUENCING

- INSTALL SEDIMENT AND EROSION CONTROL MEASURES
- COMPLETE TREE REMOVAL (CLEAR & GRUB).
- STRIP & STOCKPILE TOPSOIL & COMPLETE STOCKPILE PROTECTION.
- REMOVE EXISTING SUPERSTRUCTURE
- INSTALL UNDERWATER STRUCTURE EXCAVATION PROTECTION
- REMOVE EXISTING SUBSTRUCTURE
- CONSTRUCT PROPOSED SUBSTRUCTURE & ROADWAY GRADING.
- INSTALL TEMPORARY OR FINAL STABILIZATION MEASURES.
- REMOVE UNDERWATER STRUCTURE EXCAVATION PROTECTION & FINISH CONSTRUCTION OF PROPOSED STRUCTURE
- COMPLETE FINAL CONSTRUCTION ITEMS & CLEANUP.
- REMOVE EROSION CONTROL ITEMS.
- RESTORE FINAL AREAS.

INLET AND PIPE PROTECTION			
LOCATION	INLET FILTERS	INLET & PIPE PROTECTION	INLET FILTER CLEANING
	EACH	EACH	EACH
24.0' RT. STA. 120+05.00		1	
24.0' LT. STA. 122+02.00		1	
39.3' RT. STA. 125+20.00	1	1	1
25.0' LT. STA. 125+06.00		1	
48.0' LT. STA. 125+24.00		1	
29.3' RT. STA. 128+10.00	1	1	1
46.2' RT. STA. 128+34.00	1	1	1
TOTAL	3	7	3

**HLR**

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DESIGNED: T.P.L. | CHECKED: S.W.M. | DRAWN: D.T.M.

### EROSION CONTROL PLAN

SECTION 00-00068-07-BR  
F.A.U. 3706 / C.H. 30 / KELSEY ROAD  
LAKE COUNTY