

STORMWATER POLLUTION PREVENTION PLAN:

THE FOLLOWING NARRATIVE OF THE STORMWATER POLLUTION PREVENTION PLAN CONTAINS REFERENCES TO THE FDOT SPECIFICATIONS, THE DESIGN STANDARDS AND OTHER SHEETS OF THE CONSTRUCTION PLANS. THE FIRST SHEET OF THE CONSTRUCTION PLANS (KEY SHEET) CONTAINS AN INDEX TO THE OTHER SHEETS. THE COMPLETE STORMWATER POLLUTION PREVENTION PLAN INCLUDES SEVERAL ITEMS: THIS NARRATIVE DESCRIPTION, THE DOCUMENTS REFERENCED IN THIS NARRATIVE, THE CONTRACTOR'S APPROVED EROSION CONTROL PLAN REQUIRED BY SPECIFICATION SECTION 104, AND REPORTS OF INSPECTION MADE DURING CONSTRUCTION.

1. SITE DESCRIPTION:

1.A. NATURE OF CONSTRUCTION ACTIVITY:

INSTALL, CONSTRUCT AND INTEGRATE INTELLIGENT TRANSPORTATION SYSTEM (ITS) DEVICES ALONG THE SR 93 (I-75) CORRIDOR VIA FIBER OPTIC CABLE. THE PROJECT INCLUDES INSTALLATION OF MICROWAVE VEHICLE DETECTION SYSTEMS (MVDS), CLOSED CIRCUIT TELEVISION (CCTV) CAMERAS AND FIBER OPTIC CABLE ALONG THE PROJECT LIMITS. THESE DEVICES SHALL BE INCORPORATED INTO THE EXISTING NETWORK FOR CONTROL THROUGH THE REGIONAL TRAFFIC MANAGEMENT CENTER (RTMC). CONSTRUCTION CONSISTS OF INSTALLATION OF UNDERGROUND FIBER OPTIC AND ELECTRICAL CONDUITS, AUGER EXCAVATION FOR POLES, AND INSTALLATION OF COMMUNICATION EQUIPMENT. THE PROJECT LIMITS ARE SR 93 (I-75) IN MARION COUNTY FROM NORTH OF US 27 TO THE MARION/ALACHUA COUNTY LINE, A DISTANCE OF APPROXIMATELY 20 MILES. NOTE: THIS PROJECT INVOLVES CREATING MINIMAL ADDITIONAL IMPERVIOUS AREAS TO EXISTING ROADWAY PAVEMENT.

1.B. SEQUENCE OF MAJOR SOIL DISTURBING ACTIVITIES:

FDOT SPECIFICATIONS SECTION 104 FOR EROSION CONTROL PLAN AND ALL INSTALLATIONS AS PER PROJECT APPROVED CONSTRUCTION SCHEDULES WILL BE FOLLOWED. THE SEQUENCE OF ALL MAJOR ACTIVITIES WILL BE FOLLOWED AS DESCRIBED ON THE PROJECT SCHEDULE, UNLESS THE CONTRACTOR PROPOSES A DIFFERENT SEQUENCE THAT IS EQUAL OR BETTER AT CONTROLLING EROSION AND TRAPPING SEDIMENT AND IS APPROVED BY THE ENGINEER.

* ALL EROSION CONTROL DEVICES FOR EACH PHASE OF WORK ARE TO BE INSTALLED PRIOR TO BEGINNING OF CONSTRUCTION, UNLESS CONSTRUCTION ACTIVITY IS TO BE COMPLETED IN THE SAME DAY AND THERE ARE NO ERODIBLE SURFACES REMAINING IN THE AREA WHERE WORK WAS PERFORMED.

* INSTALL SEDIMENT BARRIER PER PLANS.

* TIME CONSTRUCTION ACTIVITIES TO LIMIT IMPACT FROM SEASONAL CLIMATE CHANGES OR WEATHER EVENTS.

1.C. AREA ESTIMATES:

TOTAL SITE AREA: 731.45 ACRES TOTAL SITE AREA.
TOTAL AREA TO BE DISTURBED: 13.57 ACRES EQUALS MORE THAN 1 ACRE.

1.D. RUNOFF DATA:

CONSTRUCTION ACTIVITIES ARE NOT EXPECTED TO INCREASE RUNOFF COEFFICIENTS. FURTHERMORE, MINIMAL IMPERVIOUS AREAS ARE BEING ADDED TO THE ROADWAY SYSTEM. THE GRASS AREAS ADJACENT TO THE SHOULDERS HAS AN ESTIMATED RUNOFF COEFFICIENT C=0.2.

1.E. SITE MAP:

SINCE CONSTRUCTION ACTIVITIES ARE LIMITED TO DRILLING OF FOUNDATIONS FOR POLES AND INSTALLATIONS OF UNDERGROUND CONDUIT VIA TRENCHING OR BORINGS BETWEEN THE EDGE OF THE ROADWAY PAVEMENT AND THE RIGHT-OF-WAY LINE, DRAINAGE MAPS WERE NOT PREPARED. THE CONSTRUCTION PLANS, HOWEVER, PROVIDE INFORMATION RELATED TO EXISTING BODIES OF WATER, SUCH AS LATERAL CANAL AND RETENTION PONDS. WATER LEAVES THE PROJECT AREA AT THE EXISTING OUTFALLS SHOWN IN PLANS.

APPROXIMATE SLOPES: THE CONSTRUCTION ACTIVITIES DO NOT INCLUDE THE CONSTRUCTION OF ANY EMBANKMENTS. THE EXISTING SIDE SLOPES ARE TO REMAIN. EXISTING SLOPES CAN BE SEEN IN THE CROSS SECTIONS SHOWN IN THE PLANS.

AREAS OF SOIL DISTURBANCE: SEE PLANS.

AREAS UNDISTURBED: SEE PLANS.

LOCATION OF CONTROLS: AREAS OF CONSTRUCTION THAT ARE WITHIN SIX (6) FEET OF STANDING WATER SHALL HAVE TEMPORARY EROSION CONTROL AS SHOWN IN THE PLANS.

AREAS TO BE STABILIZED: STABILIZATION PRACTICES WILL OCCUR THROUGHOUT THE LIMITS OF THE PROJECT. STABILIZATION SHALL OCCUR WHERE THERE IS DISTURBED EARTH.

SURFACE WATERS (INCLUDING WETLANDS): SEE PLANS FOR WETLAND LIMITS.

STORMWATER DISCHARGE LOCATION: SEE PLANS FOR LOCATIONS WITHIN THE PROJECT LIMITS.

STORMWATER POLLUTION PREVENTION PLAN CONTINUED:

1.F. RECEIVING WATERS:

EXISTING DRAINAGE SWALES AND BODIES OF WATER WITHIN THE OCKLAWAHA RIVER BASIN.

2. CONTROLS:

ALL ITEMS DISCUSSED IN THE FOLLOWING SECTIONS ARE DESCRIBED IN DETAIL IN FDOT SPECIFICATION 104 AND THE EROSION & SEDIMENT CONTROL MANUAL.

2.A. EROSION AND SEDIMENT CONTROL:

THE CONTRACTOR SHALL SUBMIT TO THE DEPARTMENT FOR APPROVAL OF PROPOSED STABILIZATION AND STRUCTURAL PRACTICES BASED ON THE CONTRACTOR'S CONSTRUCTION PHASING PLAN. THE CONTRACTOR MAY CHOOSE TO ACCEPT THE FOLLOWING GUIDELINES OR MODIFY THEM IN ACCORDANCE WITH FDOT SPECIFICATION 104, EROSION CONTROL PLAN.

THE SOIL EROSION AND SEDIMENT CONTROL SHALL BE MAINTAINED BY THE CONTRACTOR TO MINIMIZE THE AMOUNT OF DISTURBED SOIL, PREVENT OFF-SITE RUNOFF FROM FLOWING AGAINST THE DISTURBED AREAS, SLOW THE RUNOFF ACROSS THE SITE AND REMOVE SEDIMENT FROM ON SITE RUNOFF BEFORE IT LEAVES THE SITE.

THE ENGINEER WILL DETERMINE IF ADDITIONAL CONTROLS AND DEPLOYMENT SCHEDULES ARE NECESSARY FOR THE IMPLEMENTATION OF ALL EROSION CONTROL DEVICES. APPLICABLE CONTROL DEVICES AND IMPLEMENTATION PROCEDURES ARE PROVIDED IN THE PLANS.

CONSTRUCTION ACTIVITIES: THE MAJOR CONTROLS OUTLINED IN THIS SWPPP ARE SEDIMENT AND EROSION CONTROL THROUGH THE PHASING OF CONSTRUCTION OPERATIONS; THEREBY, LIMITING THE AMOUNT OF ERODIBLE EARTH EXPOSED AT ANY GIVEN TIME, REMOVAL OF EXCESS DIRT ON THE PAVED AREAS AND AROUND THE CONSTRUCTION AREAS, AND THE PROTECTION OF THE EXISTING OUTFALLS. MAJOR EROSION PROBLEMS ARE NOT ANTICIPATED DUE TO THE NATURE OF THIS PROPOSED WORK.

CONSTRUCTION ACTIVITIES OF THIS PROJECT CONSIST OF INSTALLATION OF MICROWAVE VEHICLE DETECTION SYSTEMS (MVDS), CLOSED CIRCUIT TELEVISION (CCTV) CAMERAS AND UNDERGROUND FIBER OPTIC PULL BOXES AND ELECTRICAL CONDUITS. CONSTRUCTION AREAS ARE LIMITED TO THE ROADWAY MEDIAN AND SHOULDER BETWEEN THE EDGE OF PAVEMENT AND THE RIGHT-OF-WAY.

PRIOR TO COMMENCEMENT, THE CONTRACTOR SHALL PROVIDE TO THE DEPARTMENT A DETAILED CONSTRUCTION SCHEDULE TO INDICATE THE DATES OF MAJOR PHASES AND TO DETERMINE THE SEQUENCING OF TEMPORARY AND PERMANENT SOIL STABILIZATION ACTIVITIES ON ALL PORTIONS OF THE SITE.

PRIOR TO BEGINNING ANY PHASE OF CONSTRUCTION, THE CONTRACTOR SHALL INSTALL EROSION AND SEDIMENT CONTROL ITEMS IN ACCORDANCE WITH THE PLANS.

STOCKPILED AREAS, APPROVED BY THE ENGINEER, (WHICH WILL REQUIRE AN ENDANGERED SPECIES CLEARANCE) WILL HAVE STAKED SEDIMENT BARRIER AROUND THE PERIMETER TO PREVENT OFF-SITE FLOW OF POLLUTED STORM WATER RUNOFF.

STOCKPILED MATERIALS WILL NOT BE STORED ON-SITE FOR MORE THAN 24-HOURS PRIOR TO INSTALLATION, NOR WILL THEY BE LOCATED ADJACENT TO WATER BODIES, INLETS OR WETLANDS. SHOULD A SITUATION ARISE THAT REQUIRES THE MATERIAL TO BE STOCKPILED FOR MORE THAN 24-HOURS, PLASTIC SHEETING, FILTER FABRIC OR SEDIMENT BARRIER WILL BE PROVIDED TO REDUCE THE POTENTIAL FOR SEDIMENT TRANSPORT.

EROSION AND SEDIMENT CONTROLS SHALL BE MAINTAINED THROUGHOUT CONSTRUCTION AND MAY BE REMOVED WHEN PERMANENT STABILIZATION IS ESTABLISHED.

REVISIONS				METRIC ENGINEERING, INC. ROBERT MASTASCUSA, P.E. # 66600 615 CRESCENT EXECUTIVE CT SUITE 524 LAKE MARY, FLORIDA 32746 TEL. (407) 644-1898 FAX. (407) 644-2376 CERTIFICATE OF AUTHORIZATION 2294	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			STORMWATER POLLUTION PREVENTION PLAN	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					SR 93	MARION	428213-2-52-02		IT-102

STORMWATER POLLUTION PREVENTION PLAN CONTINUED:

2.B. STABILIZATION PRACTICES:

STABILIZATION PRACTICES TO BE IMPLEMENTED INCLUDING BUT NOT LIMITED TO PERMANENT SODDING, SEEDING OR SEED AND MULCH. THIS SHALL BE DONE IN ACCORDANCE WITH SPECIFICATIONS SECTION 570 PERFORMANCE TURF. STABILIZATION METHOD SHALL BE IMPLEMENTED AS SOON AS POSSIBLE FOLLOWING CONSTRUCTION ACTIVITIES, BUT IN NO CASE SHALL THE TIME BE GREATER THAN SEVEN DAYS AFTER THE CONSTRUCTION HAS CEASED. THE CONTRACTOR SHALL DOCUMENT IN THE SWPPP EROSION CONTROL INSPECTION REPORTS.

2.C. STRUCTURAL PRACTICES:

STAKED SEDIMENT BARRIERS WILL BE IN ACCORDANCE WITH THE FDOT EROSION AND SEDIMENT CONTROL MANUAL (LATEST EDITION). SEE PLANS FOR EROSION CONTROL AND SILT FENCE DETAILS AND LOCATIONS WHERE POSSIBLE IMPACTS MAY OCCUR.

2.D. STORMWATER MANAGEMENT:

THE EXISTING STORMWATER MANAGEMENT SYSTEM ALONG THE PROJECT LIMITS PRIMARILY CONSISTS OF AN OPEN DRAINAGE SYSTEM WITH SOME CROSS DRAINAGE AND CATCH BASINS THAT CONVEY STORMWATER INTO DITCH SWALES THAT ULTIMATELY DISCHARGE IN PONDS OR CANALS. MINIMAL ADDITIONAL IMPERVIOUS AREAS ARE PROPOSED; THEREFORE, NO CHANGES TO EXISTING STORMWATER MANAGEMENT SYSTEM ARE REQUIRED.

2.E. OTHER CONTROLS:

WASTE DISPOSAL: THE CONTRACTOR SHALL DOCUMENT ANY LITTER REMOVAL IN THE SWPPP EROSION CONTROL INSPECTION REPORTS.

OFF SITE VEHICLE TRACKING AND DUST CONTROL: THE CONTRACTOR SHALL DESCRIBE THE PROPOSED METHODS FOR MINIMIZING OFF-SITE VEHICLE TRACKING OF SEDIMENTS. ALL CONSTRUCTION ENTRANCES TO THE CORRIDOR SHALL BE FROM EXISTING ENTRANCES (RAMPS, MAINLINE). THE CONTRACTOR WILL PROVIDE POLLUTION CONTROL BY IMPLEMENTING DUST CONTROL DURING DUST GENERATING ACTIVITIES, SUCH AS DRILLING POLE FOUNDATIONS. A TRUCK SHALL REMOVE ANY EXCESS SOIL MATERIAL THAT IS TO BE DISCHARGED WITH A TARPULIN COVERING THE MATERIAL. THE CONTRACTOR SHALL DOCUMENT THIS IN THE SWPPP EROSION CONTROL INSPECTION REPORTS.

STATE AND LOCAL REGULATIONS FOR WASTE DISPOSAL: A LICENSED SANITARY WASTE MANAGEMENT CONTRACTOR WILL COLLECT ANY SANITARY WASTE FROM THE PORTABLE UNITS AS NECESSARY OR AS REQUIRED BY LOCAL REGULATION. THE CONTRACTOR SHALL DOCUMENT THIS IN THE SWPPP EROSION CONTROL INSPECTION REPORTS.

FERTILIZERS AND PESTICIDES (IF APPLICABLE): FERTILIZERS SHALL BE APPLIED ACCORDING TO APPLICABLE SUBSECTIONS OF SPECIFICATION 570 OF THE FDOT SPECIFICATIONS. FERTILIZERS AND PESTICIDES SHALL NOT BE USED WITHIN 50 FT OF ANY SURFACE WATER BODY. ALL FERTILIZERS AND PESTICIDES SHALL BE STORED, HANDLED AND APPLIED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS AND APPLICATION RATES. THE DISPOSAL OF ANY FERTILIZER AND PESTICIDES SHALL BE THE CONTRACTOR'S RESPONSIBILITY IN ACCORDANCE WITH EPA'S STANDARD PRACTICE BY MANUFACTURER. THE CONTRACTOR SHALL DOCUMENT THIS IN THE SWPPP EROSION CONTROL INSPECTION REPORTS.

TOXIC SUBSTANCES: THE CONTRACTOR IS RESPONSIBLE TO REPORT ANY CHEMICAL SPILLS TO THE FDOT. IF CONTAMINATED SOILS OR GROUNDWATER IS ENCOUNTERED DURING CONSTRUCTION ACTIVITY, THE CONTRACTOR SHALL STOP WORK IMMEDIATELY AND CONTACT THE ENGINEER.

STATE AND LOCAL PLANS: THE CONTRACTOR SHALL FOLLOW THE CONDITIONS AND SPECIFICATIONS OUTLINED IN THE WATER MANAGEMENT DISTRICT AND THE ENVIRONMENTAL PROTECTION AGENCY PERMITS AND CRITERION.

STORMWATER POLLUTION PREVENTION PLAN CONTINUED:

MAINTENANCE:

MAINTENANCE AND REPAIR REQUIRED FOR THE CONTROL AND ABATEMENT OF EROSION AND WATER POLLUTION SHALL BE INCLUDED IN THE COST OF THE REQUIRED PAY ITEMS.

IN CASE OF EMERGENCY, THE CONTRACTOR SHALL PROVIDE A 24 HOUR CONTACT FOR EROSION CONTROL REPAIR.

STRUCTURAL PRACTICES: BUILT-UP SEDIMENT WILL BE REMOVED AND PROPERTY DISPOSED OF FROM THE SEDIMENT BARRIERS AND STAKED TURBIDITY BARRIERS WHEN IT HAS REACHED ONE-THIRD THE HEIGHT OF THE FENCE. SEDIMENT BARRIERS SHALL BE OBSERVED FOR OPENINGS IN THE MESH, BROKEN STAKES AND TO ENSURE THAT THEY ARE FUNCTIONING AS INTENDED. TEMPORARY AND PERMANENT SEEDING AND SODDING WILL BE INSPECTED FOR BARE SPOTS, WASHOUTS AND HEALTHY GROWTH, AND PROPER MAINTENANCE. THE CONTRACTOR SHALL DOCUMENT THIS IN THE SWPPP EROSION CONTROL INSPECTION REPORTS.

3. INSPECTIONS:

THE CONTRACTOR SHALL PERFORM COMPREHENSIVE INSPECTIONS OF ALL EROSION AND SEDIMENT CONTROL FEATURES AS REQUIRED. EXCEPT FOR THE DAILY INSPECTIONS OF SEDIMENT BARRIER REQUIRED UNDER THE FDOT SPECIFICATION 104-6.4.6.3, THE CONTRACTOR SHALL GIVE THE DEPARTMENT A MINIMUM OF 24-HOUR ADVANCE NOTICE TO PROVIDE FDOT PROJECT PERSONNEL WITH THE OPPORTUNITY TO ACCOMPANY THE CONTRACTOR ON THE COMPREHENSIVE INSPECTIONS. THE CONTRACTOR SHALL SUBMIT INSPECTION REPORTS TO DISTRICT CONSTRUCTION WEEKLY. WHERE SITES HAVE BEEN FOUND TO HAVE EROSION ISSUES, INSPECTION SHALL BE CONDUCTED AS REQUIRED AT DISTURBED AREAS OF THE SITE THAT HAVE NOT BEEN FINALLY STABILIZED AND AREAS USED FOR STORAGE OF MATERIALS THAT ARE EXPOSED TO PRECIPITATION.

IF INSPECTIONS INDICATE THAT THE INSTALLED STABILIZATION AND STRUCTURAL PRACTICES ARE NOT SUFFICIENT TO MINIMIZE EROSION, RETAIN SEDIMENT AND PREVENT DISCHARGING POLLUTANTS, THE CONTRACTOR SHALL PROVIDE IMMEDIATE REMEDIAL ACTION MEASURES, AS APPROVED BY THE ENGINEER.

ALL SEDIMENT AND EROSION CONTROL DEVICES SHALL BE INSPECTED WITHIN 24 HOURS OF A RAIN EVENT THAT IS 0.5 INCHES OR GREATER.

4. NON-STORMWATER DISCHARGE:

NONE ANTICIPATED.

REVISIONS				METRIC ENGINEERING, INC. ROBERT MASTASCUSA, P.E. # 66600 615 CRESCENT EXECUTIVE CT SUITE 524 LAKE MARY, FLORIDA 32746 TEL. (407) 644-1898 FAX. (407) 644-2376 CERTIFICATE OF AUTHORIZATION 2294	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			STORMWATER POLLUTION PREVENTION PLAN	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					SR 93	MARION	428213-2-52-02		IT-103