

SEDIMENT STORAGE

THE SITE HAS A TOTAL DISTURBED AREA OF 6.86 ACRES. THE FOLLOWING TABLE SUMMARIZES THE REQUIRED AND AVAILABLE SEDIMENT STORAGE FOR EVERY OUTFALL ON THIS PROJECT. THE CONTRACTOR SHALL PROVIDE AND MAINTAIN THE STORAGE VOLUMES FOR THE BMP'S SPECIFIED IN THIS TABLE.

LOCATION	TOTAL DRAINAGE (ACRES)	DISTURBED AREA (ACRES)	REQUIRED STORAGE VOLUME (CY)	TOTAL STORAGE VOLUME PROVIDED (CY)	SEDIMENT BASINS		CHECK DAM (CY/EACH)		INLET SEDIMENT TRAPS (CY/EACH)		SILT FENCE (0.3 CY/FT)		SILT GATE (CY/EACH)	
					POND #	TOTAL VOLUME (CY)	# OF DEVICES	TOTAL VOLUME (CY)	# OF DEVICES	TOTAL VOLUME (CY)	LENGTH OF FENCE (FT)	TOTAL VOLUME (CY)	# OF DEVICES	TOTAL VOLUME (CY)
OUTFALL DA-1	3.68	1.78	247	2799	N/A	N/A	12	228	3	612	2854	856	5	1103
OUTFALL DA-2	3.54	1.55	237	442	N/A	N/A	2	112			1053	316	1	14
OUTFALL DA-3	3.29	2.18	220	1329	N/A	N/A	12	313	1	134	827	248	5	634
OUTFALL DA-4	0.00	0.00	0	0	N/A	N/A								
OUTFALL DA-5	0.00	0.02	0	0	N/A	N/A					163	49		
OUTFALL DA-6	4.94	1.33	331	537	N/A	N/A	10	74	1	12	1504	451		

IN ORDER TO PREVENT RUNOFF FROM BYPASSING INLET SEDIMENT TRAPS, A TEMPORARY SUMP SHALL BE INSTALLED AROUND ALL INLET SEDIMENT TRAPS THAT ARE NOT LOCATED IN A LOW POINT OR AN EXCAVATED SUMP. CONSTRUCT TEMPORARY SUMPS IN ACCORDANCE WITH CONSTRUCTION DETAIL D-24C. TEMPORARY SUMPS SHALL BE INSTALLED IN A MANNER THAT ENSURES STORMWATER DOES NOT BYPASS THE INLET. THE CONTRACTOR MAY SUBMIT ALTERNATE TEMPORARY CONTAINMENT BERM DESIGNS TO THE PROJECT ENGINEER FOR APPROVAL.

SEDIMENT BASINS WILL NOT BE UTILIZED AT ALL OUTFALL LOCATIONS DUE TO RIGHT-OF-WAY LIMITATIONS. LAND DISTURBANCE ACTIVITIES ASSOCIATED WITH CONSTRUCTING AND REMOVING SEDIMENT BASINS WOULD CAUSE ADVERSE IMPACTS. ADEQUATE SEDIMENT STORAGE IS OBTAINED WITH THE USE OF CHECK DAMS, SEDIMENT TRAPS AND SILT FENCE FOR ALL OUTFALLS.

SAMPLING GENERAL NOTES

REPRESENTATIVE SAMPLING MAY BE UTILIZED ON THIS PROJECT AS EXPLAINED HERE. THE INDIVIDUAL OUTFALL DRAINAGE BASINS ALONG THE PROJECT CORRIDOR HAVE BEEN CAREFULLY EVALUATED AND COMPARED ON THE BASIS OF FOUR CHARACTERISTICS: THE TYPE OF CONSTRUCTION ACTIVITY, THE DISTURBED ACREAGE, THE AVERAGE SLOPE ABOUT THE OUTFALL, AND THE SOIL EROSION INDEX 0-10, 10 BEING THE MOST ERODIBLE SOIL. THE CONSTRUCTION ACTIVITY TYPES ARE NEW ROAD ON FILL, NEW ROAD IN CUT, ROAD WIDENING, AND MAINTENANCE/SAFETY. THE DISTURBED AREA CLASSES ARE LESS THAN OR EQUAL TO 1 ACRE, GREATER THAN 1 ACRE TO LESS THAN 2 ACRES, AND EQUAL TO OR GREATER THAN 2 ACRES. THE AVERAGE OUTFALL SLOPE IS WILD IF IT IS EQUAL TO OR LESS THAN 0.03, AND STEEP IF IT IS GREATER THAN 0.03. THE SOIL EROSION INDEX IS LOW IF IT IS LESS THAN OR EQUAL TO 5 AND HIGH IF IT IS GREATER THAN 5. AFTER EVALUATION OF THESE CHARACTERISTICS AS PRESENTED IN THE PROJECT'S DRAINAGE AREA MAP, HYDROLOGY AND HYDRAULIC STUDIES, CONSTRUCTION PLANS, GEOTECHNICAL SOIL SURVEY, AND EROSION SEDIMENTATION AND POLLUTION CONTROL PLANS, THE DEPARTMENT HAS DETERMINED THAT THE REPRESENTATIVE SAMPLING SCHEME SHOWN BELOW IS VALID FOR THE DURATION OF THE PROJECT. THE TABLE SHOWS THE GROUPS OF SIMILAR OUTFALL DRAINAGE BASINS.

THE INCREASE IN TURBIDITY AT THE SPECIFIED LOCATIONS IN THE TABLE BELOW WILL BE REPRESENTATIVE OF THE ALTERNATE OUTFALL DRAINAGE BASINS WHEN SIMILAR OUTFALL DRAINAGE BASINS EXIST. APPROVED PRIMARY AND ALTERNATE REPRESENTATIVE SAMPLED FEATURES ARE IDENTIFIED IN THE TABLE BELOW.

NOTE: THE TOTAL SITE AREA IS 52.81 ACRES.									REPRESENTATIVE SAMPLING SCHEME					
SAMPLING INFORMATION									OUTFALL CHARACTERISTICS					
PRIMARY SAMPLED FEATURE	LOCATION (STATION AND OFFSET)	NAME OF RECEIVING WATER	APPLICABLE CONSTRUCTION STAGE FOR SAMPLING	SAMPLING TYPE (OUTFALL OR RECEIVING WATER)	DRAINAGE AREA FOR THE RECEIVING WATER (mi ²)	WARM OR COLD WATER STREAM	APPENDIX B NTU VALUE (OUTFALL SAMPLING ONLY)	ALLOWABLE INCREASE (RECEIVING-WATER SAMPLING ONLY)	LOCATION DESCRIPTION	CONSTRUCTION ACTIVITY	DISTURBED AREA (ACRES)	AVERAGE OUTFALL SLOPE (RISE/RUN)	SOIL EROSION INDEX	ALTERNATE OUTFALL DRAINAGE BASINS
OUTFALL DA-1 DOWN	103+62 121' RT	LITTLE HEARST BRANCH	ALL	RECEIVING WATER	2.52	WARM	N/A	50	6-1 OUTFALL, MIDDLE OF STREAM	ROAD WIDENING	1.29	0.010	7.6	OUTFALL DA-3
OUTFALL DA-1 UP	104+60 150' LT	LITTLE HEARST BRANCH	ALL	RECEIVING WATER	2.46	WARM	N/A	50	6-3 INLET, MIDDLE OF STREAM	ROAD WIDENING	N/A	0.015	7.6	N/A
OUTFALL DA-2	405+61 65' RT	LITTLE HEARST BRANCH	ALL	OUTFALL	2.38	WARM	50	N/A	DITCH, MIDDLE OF DITCH	ROAD WIDENING	0.74	0.024	7.6	OUTFALL DA-6
OUTFALL DA-4	148+09 109' RT	BLACK CREEK	ALL	OUTFALL	20.70	WARM	50	N/A	AB-1 OUTFALL, 24" PIPE	MILL AND INLAY	0.00	0.001	7.6	OUTFALL DA-5

THE PRIMARY SAMPLED FEATURES SPECIFIED SHOULD BE USED AS THE INITIAL SAMPLING LOCATIONS. AN ALTERNATE SAMPLED FEATURE MAY BE USED IF ADDITIONAL SAMPLING IS REQUIRED OR TO REPLACE A PRIMARY SAMPLED FEATURE THAT IS NO LONGER LOCATED WITHIN THE ACTIVE PHASE OF CONSTRUCTION.

STREAM AND OPEN-WATER BUFFER ENCROACHMENTS

STREAM BUFFERS, AS DEFINED BY O.C.G.A. 12-7-1, ARE NOT IMPACTED BY THIS PROJECT. THE CONTRACTOR IS NOT AUTHORIZED TO ENTER INTO STREAM BUFFERS.

NON-EXEMPT ACTIVITIES SHALL NOT BE CONDUCTED WITHIN THE 25 OR 50-FOOT UNDISTURBED STREAM BUFFERS AS MEASURED FROM THE POINT OF WRESTED VEGETATION WITHOUT FIRST ACQUIRING THE NECESSARY VARIANCES AND PERMITS.

UNLESS NOTED OTHERWISE, UTILITY COMPANIES WILL BE SUBMITTING THE REQUIRED PERMITS/VARIANCES IN CONJUNCTION WITH THE IMPACTS CAUSED BY THEIR ACTIVITIES. IF UTILITY IMPACTS ARE COVERED BY THE DEPARTMENT'S STREAM BUFFER VARIANCE, THIS SHALL BE NOTED IN THE BUFFER-VARIANCE-REQUIRED COLUMN.

INSPECTING AND SAMPLING PROCEDURES

SEE SPECIAL PROVISION 167 AND OTHER CONTRACT DOCUMENTS FOR THE INSPECTING AND SAMPLING PROCEDURES.

READY MIX CHUTE WASH DOWN

THE WASHING OF READY-MIX CONCRETE DRUMS AND DUMP TRUCK BODIES USED IN THE DELIVERY OF PORTLAND CEMENT CONCRETE IS PROHIBITED ON THIS SITE.

IN ACCORDANCE WITH STANDARD SPECIFICATION 107, LEGAL REGULATIONS AND RESPONSIBILITY TO THE PUBLIC, ONLY THE DISCHARGE CHUTE UTILIZED IN THE DELIVERY OF PORTLAND CEMENT CONCRETE MAY BE RINSED FREE OF FRESH CONCRETE REMAINS. THE CONTRACTOR SHALL EXCAVATE A PIT OUTSIDE OF STATE WATER BUFFERS, AT LEAST 25 FEET FROM ANY STORM DRAIN AND OUTSIDE OF THE TRAVELLED WAY, INCLUDING SHOULDERS, FOR A WASH-DOWN PIT. THE PIT SHALL BE LARGE ENOUGH TO STORE ALL WASH-DOWN WATER WITHOUT OVERTOPPING. IMMEDIATELY AFTER THE WASH-DOWN OPERATIONS ARE COMPLETED AND AFTER THE WASH-DOWN WATER HAS SOAKED INTO THE GROUND, THE PIT SHALL BE FILLED IN, AND THE GROUND ABOVE IT SHALL BE GRADED TO MATCH THE ELEVATION OF THE SURROUNDING AREAS. ALTERNATE WASH-DOWN PLANS MUST BE APPROVED BY THE PROJECT ENGINEER.

WASH-DOWN PLANS DESCRIBE PROCEDURES THAT PREVENT WASH-DOWN WATER FROM ENTERING STREAMS AND RIVERS. NEVER DISPOSE OF WASH-DOWN WATER DOWN A STORM DRAIN. ESTABLISH A WASH-DOWN PIT THAT INCLUDES THE FOLLOWING: (1) A LOCATION AWAY FROM ANY STORM DRAIN, STREAM, OR RIVER, (2) ACCESS TO THE VEHICLE BEING USED FOR WASH-DOWN, (3) SUFFICIENT VOLUME FOR WASH-DOWN WATER, AND (4) PERMISSION TO USE THE AREA FOR WASH-DOWN.

ON SITES WHERE PERMISSION OR ACCESS TO EXCAVATE A WASH-DOWN PIT IS UNAVAILABLE, THE CONTRACTOR MAY HAVE TO WASH-DOWN INTO A SEALABLE 55-GALLON DRUM OR OTHER SUITABLE CONTAINER AND THEN TRANSPORT THE CONTAINER TO A PROPER DISPOSAL SITE. FOR ADDITIONAL INFORMATION, REFER TO THE GEORGIA SMALL BUSINESS ENVIRONMENTAL ASSISTANCE PROGRAM'S "A GUIDE FOR READY MIX CHUTE/HOPPER WASH-DOWN."

CONSTRUCTION NARRATIVE

P. I. 0012722 IS AN INTERCHANGE RECONSTRUCTION OF I-95 AND SR 21 / SR 30 FROM A DIAMOND TO A DIVERGING DIAMOND INTERCHANGE. THE THREE THROUGH LANES WILL BE CARRIED THROUGH THE INTERCHANGE NORTHBOUND AND SOUTHBOUND, AND THE NORTHBOUND RIGHT TURN LANES AT MULTIPLE DRIVEWAYS WILL BE CONVERTED TO A RIGHT TURN AUXILIARY LANE ON SR 21. ADDITIONAL LANE ADDED IN EACH DIRECTION ON SR 21 FROM SR 30 TO HENDLEY RD. THE PROJECT LIMITS WILL BE GRADED TO CONSTRUCT PAVEMENT WIDENING, MEDIAN, AND SHOULDERS. SLOPES WILL BE CONSTRUCTED AND MAINTAINED THROUGHOUT CONSTRUCTION UNTIL PERMANENT VEGETATION MAY BECOME ESTABLISHED. STORM WATER RUNOFF WILL BE COLLECTED IN ROADSIDE DITCHES AND AN UNDERGROUND STORM PIPING SYSTEM. SEDIMENT FROM STORM WATER RUNOFF WILL BE CONTROLLED BY BMP'S.

USE OF ALTERNATIVE AND/OR ADDITIONAL BMPS:

NO ALTERNATIVE OR ADDITIONAL BMPS WILL BE USED ON THIS PROJECT.

DISCHARGES INTO OR WITHIN ONE LINEAR MILE UPSTREAM OF AND WITHIN THE SAME WATERSHED AS, ANY PORTION OF A BIOTA IMPAIRED STREAM SEGMENT

ALL OUTFALLS ARE EITHER LOCATED FURTHER THAN 1 LINEAR MILE UPSTREAM OR OUTSIDE OF THE WATERSHED OF AN IMPAIRED STREAM SEGMENT THAT HAS BEEN LISTED FOR CRITERIA VIOLATED, "BIO F" (IMPAIRED FISH COMMUNITY) AND/OR "BIO M" (IMPAIRED MACRO INVERTEBRATE COMMUNITY), WITHIN CATEGORY 4A, 4B OR 5, AND THE POTENTIAL CAUSE IS EITHER "NP" (NONPOINT SOURCE) OR "UR" (URBAN RUNOFF).

A TOTAL MAXIMUM DAILY LOAD (TMDL) IMPLEMENTATION PLAN IS NOT REQUIRED ON THIS PROJECT.

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION

OFFICE: INNOVATIVE DELIVERY

ESPCP GENERAL NOTES

1-95 AT SR 21 DIVERGING
DIAMOND INTERCHANGE PROJECT

DRAWING NO.
51-0002

