CITY OF TUCKER

ACKNOWLEDGE RECEIPT OF ADDENDUM #2 FORM

ITB 2024-014 JOHNS HOMESTEAD PARK AND DAM IMPROVEMENT PROJECT

Upon receipt, please print and add to your proposal.

I hereby acknowledge receipt of the supplement pertaining to the above referenced bid.

77/4		
STATE:	ZIP:	
FAX:	6	
	5.0	
DATE	Tate	
2 × Incor	bo.	
	FAX:	FAX:

ITB 2024-014 ADDENDUM #2

- Updated Erosion Control Plans
 - o The attached Erosion Control Plans were updated to incorporate comments from the permitting review. The revisions were minor in nature and should not impact the bid price. These plans shall replace sheets C-200 through C-209 in the original bid set.
- Geotechnical data was taken for each of the dam locations. This information is included on the plans. Any additional Geotechnical information that may be needed for the project will be taken during construction by the City's third party engineer and provided to the Contractor.
- No questions were received between August 7, 2024 and August 16, 2024, which was the time provided in Addendum 1 for additional questions.

EROSION, SEDIMENTATION & POLLUTION CONTROL NOTES: THE PRIMARY PERMITTEE OF THIS PROJECT IS: CITY OF TUCKER — JOHN HOMESTEAD PARK CONTACT PERSON: RIP ROBERTSON, DIRECTOR PARKS AND RECREATION DEPT. TEL: (470) 481-0205 THE TOTAL ACREAGE OF THE PROPERTY IS 49.4 ACRES AND THE TOTAL DISTURBED AREA IS: 4.5 ACRES. THE PROPERTY IS LOCATED AT GPS LOCATION LATITUDE: 33.8259; LONGITUDE: -84.2432; AND THE ADDRESS IS: JOHN HOMESTEAD PARK IN TUCKER GA. THE CRITICAL AREA IS THE UNNAMED STREAM (TRIBUTARY OF SOUTH FORK PEACHTREE CREEK) LOCATED ON THE PROPERTY. WE WILL UTILIZE A MIXTURE OF MEASURES SUCH AS CONCRETE SAF'S WITH RIPRAP OUTLET PROTECTIONS, CONSTRUCTION EXITS, RIRAP FILTER RINGS, CONSTRUCTION ROAD STABILIZATION, ROCK FILTER DAMS, TEMPORARY AND PERMANENT GRASSING-STABILIZATION MEASURES. THE WORK IS THE RENOVATION OF TWO DAMS, SO THE MAJORITY OF THE WORK IS BEING DONE WITHIN OPEN WATERS AND/OR THE STATE WATERS BUFFER OR DEKALB COUNTY UNDISTURBED BUFFERS IN ORDER TO RENOVATE THE FAILING DAMS AND STABILIZE THEM AS QUICKLY AS POSSIBLE TO PREVENT THEM FROM FAILING AND CAUSING SEVERE EROSION IN THE STREAMS AND ALONG THE STREAM BANKS FROM THE HIGH VELOCITY RUNOFF THAT WOULD BE EXPECTED, AS WELL AS FROM THE SEDIMENT THAT WOULD FOLLOW AND COLLECT IN THOSE SAME STREAMS AND ALONG THEIR STREAM BANKS. THE PRESENCE OF ON-SITE WETLANDS HAS BEEN INVESTIGATED AND IT WAS DETERMINED THAT THERE ARE WETLANDS ON SITE, WHICH HAVE BEEN DELINEATED-FLAGGED IN THE FIELD AND SHOWN ON THESE PLANS. ALL STATE WATERS LOCATED ON AND WITHIN 200 FEET OF THE PROJECT SITE HAVE BEEN IDENTIFIED AND WILL BE PROTECTED BY ASSOCIATED STATE AND COUNTY PROTECTION REGULATIONS AND BUFFERS. THE RECEIVING WATERS OF THIS PROJECT IS A TRIBUTARY OF SOUTH FORK PEACHTREE CREEK, WHICH IS LESS THAN ONE MILE FROM THE SITE, AND IS LISTED AS AN ENDANGERED STREAM SEGMENT BASED ON THE 2022 INTEGRATED 305(b)/303(D) LIST FOR RIVERS AND STREAMS. A TMDL FOR THIS ENDANGERED STREAM WAS COMPLETED IN 2003 AND REVISED IN 2008, AND IN 2018 FOR BIO F AND BIO M; IT IS CATEGORY 4a. THE MOST EFFICIENT METHOD OF DUST CONTROL FOR THE SITE SHALL BE DETERMINED EXPERIMENTALLY AND MAY CONSIST OF TEMPORARY MEASURES SUCH AS MULCHES, VEGETATIVE COVER, SPRAY-ON ADHESIVES, TILLAGE, IRRIGATION, BARRIERS AND/OR THE APPLICATION OF CALCIUM CHLORIDE. LIKEWISE, IF THE ACTION OF THE VEHICLE TRAVELING OVER THE GRAVEL CONSTRUCTION EXIT PAD DOES NOT SUFFICIENTLY REMOVE THE MUD FROM VEHICLE TIRES. THE TIRES SHOULD BE WASHED PRIOR TO ENTRANCE ONTO PUBLIC RIGHTS-OF-WAY. WHEN WASHING IS REQUIRED. IT SHALL BE DONLY ON AN AREA STABILIZED WITH CRUSHED STONE AND PROVISIONS THAT INTERCEPT THE SEDIMENT-LADEN RUNOFF AND DIRECT IT INTO AN APPROVED WASHOUT OF THE DRUM OF A CONCRETE TRUCK AT THE CONSTRUCTION SITE IS PROHIBITED. CONCRETE WASHDOWN OF TOOLS, CONCRETE MIXER CHUTES, HOPPERS AND THE REAR OF VEHICLES WILL ONLY BE ALLOWED IN A DESIGNATED AREA PROVIDED FOR THIS PURPOSE, AS SHOWN ON THE DRAWINGS. THE FOLLOWING BEST PRACTICES WILL BE FOLLOWED: (1) CONTAIN ALL WASH WATER ON SOIL, IN A BOWL SHAPED AREA CREATED IN THE DESIGNATED WASH AREA TO PREVENT THE WASH WATER FROM FLOWING FROM THE WASHOUT AREA: (2) USE THE MINIMUM AMOUNT OF WATER TO WASH DOWN THE TOOLS, CONCRETE MIXER CHUTES, HOPPERS AND THE REAR OF VEHICLES; (3) REMOVE ANY CONCRETE SEDIMENT FROM THE AREA SURROUNDING THE WASHOUT AREA BEFORE IT HARDENS; AND 4) REMOVE ALL CONCRETE RESIDUE FROM THE DESIGNATED AREA ONCE IT HAS HARDENED. SPILL CLEANUP AND CONTROL PRACTICES: LOCAL, STATE AND MANUFACTURER'S RECOMMENDED METHODS FOR SPILL CLEANUP WILL BE CLEARLY POSTED AND PROCEDURES WILL BE MADE MATERIAL AND EQUIPMENT NECESSARY FOR SPILL CLEANUP WILL BE KEPT IN THE MATERIALS STORAGE AREA. TYPICAL MATERIALS AND EQUIPMENT INCLUDES, BUT IS NOT LIMITED TO, BROOMS, DUSTPANS, MPS, RAGS, GLOVES, GOGGLES, CAT LITTER, SAND, SAWDUST AND PROPERLY LABELED PLASTIC SPILL PREVENTION PRACTICES AND PROCEDURES WILL BE REVIEWED AFTER A SPILL AND ADJUSTED AS NECESSARY TO PREVENT FUTURE SPILLS. ALL SPILLS WILL BE CLEANED UP IMMEDIATELY UPON DISCOVERY. ALL SPILLS WILL BE REPORTED AS REQUIRED BY LOCAL, STATE AND FEDERAL FOR SPILLS THAT IMPACT SURFACE WATER (LEAVE A SHEEN ON SURFACE WATER), THE NATIONAL RESPONSE CENTER (NRC) WILL BE CONTACTED WITHIN 24 HOURS AT 1-800-424-8802

FOR SPILLS OF AN UNKNOWN AMOUNT, THE NATIONAL RESPONSE CENTER (NRC) WILL BE CONTACTED WITHIN 24 HOURS AT 1-800-424-8802.

CONTRACTOR WILL NEED A SPILL PREVENTION CONTAINMENT AND COUNTERMEASURES PLAN PREPARED BY THAT LICENSED PROFESSIONAL.

THE PROPOSED DEVELOPMENT (REPAIR) OF THIS SITE WILL NOT HAVE AN ADVERSE AFFECT ON THE DOWNSTREAM PROPERTIES.

BE DISPOSED OF ACCORDING TO MANUFACTURER'S SPECIFICATIONS AND RECOMMENDATIONS.

THE REQUIREMENTS CONTAINED IN THE GENERAL NPDES PERMIT NO. GAR 100002.

WALDEN, ASHWORTH & ASSOCIATES, INC.

THESE MATERIALS WILL BE UNDER ROOF IN SEALED CONTAINERS.

AND MATERIALS INTENDED FOR OUTDOOR USE).

AUTHORIZED AGENT, UNDER MY SUPERVISION.

PRODUCT SPECIFIC PRACTICES:

FOR SPILLS GREATER THAN 25 GALLONS AND NO SURFACE WATER IMPACTS, THE SPILL WILL BE CLEANED UP AND LOCAL AGENCIES WILL BE

THE CONTRACTOR SHALL NOTIFY THE LICENSED PROFESSIONAL WHO PREPARED THIS PLAN IF MORE THAN 1,320 GALLONS OF PETROLEUM IS STORED

ONSITE (THIS INCLUDES CAPACITIES OF EQUIPMENT) OR IF ANY ONE PIECE OF EQUIPMENT HAS A CAPACITY GREATER THAN 660 GALLONS. THE

THE EXISTING SITE IS PRISON SEWER OUTFALL. THE PURPOSE OF THE PROJECT IS TO CONSTRUCT A NEW SEWER OUTFALL TO REPLACE THE OLD SEWER

OUTFALL. THERE ARE NO BUILDINGS PROPOSED AS A PART OF THIS PROJECT. THE DRIVEWAY WILL BE PARTIALLY DEMOLISHED AND REPOURED. THE NEW DRIVEWAY WILL BE COVERED WITH PLASTIC SHEETING TO PROTECT IT FROM STORMWATER DURING THE CURING PROCESS. THE STREAM WILL

TEMPORARILY BE PIPES/DIVERTED SO THAT THE SLOPE STABILIZATION MAY BE PLACED AND SPRAYED ON. NO NEW IMPERVIOUS AREA IS PROPOSED.

ALL POLLUTANTS FROM WASTE DISPOSAL PRACTICES, SOIL ADDITIVES, REMEDIATION OF SPILLS AND LEAKS OF PETROLEUM PRODUCTS, CONCRETE TRUCK

SITE WILL BE IN COMPLIANCE WITH ALL APPLICABLE STATE AND LOCAL WASTE DISPOSAL, SANITARY SEWER OR SEPTIC SYSTEM REGULATIONS.

PETROLEUM BASED PRODUCTS - CONTAINERS FOR PRODUCTS SUCH AS FUELS, LUBRICANTS AND TARS WILL BE INSPECTED DAILY FOR LEAKS AND SPILLS.

THIS INCLUDES ONSITE VEHICLE AND MACHINERY, DAILY INSPECTIONS AND REGULAR PREVENTIVE MAINTENANCE OF SUCH EQUIPMENT. EQUIPMENT MAINTENANCE AREAS WILL BE LOCATED AWAY FROM STATE WATER, NATURAL DRAINS AND STORMWATER DRAINAGE INLETS. IN ADDITION, TEMPORARY

FUELING TANKS SHALL HAVE A SECONDARY CONTAINMENT LINER TO PREVENT/MINIMIZE SITE CONTAMINATION. DISCHARGE OF OILS, FUELS AND LUBRICANTS

IS PROHIBITED. PROPER DISPOSAL METHODS WILL INCLUDE COLLECTION IN A SUITABLE CONTAINER AND DISPOSAL AS REQUIRED BY LOCAL AND STATE

PAINTS/FINISHES/SOLVENTS - ALL PRODUCTS WILL BE STORED IN TIGHTLY SEALED ORIGINAL CONTAINERS WHEN NOT IN USE. EXCESS PRODUCTS WILL NOT

BE DISCHARGED TO THE STORMWATER COLLECTION SYSTEM. EXCESS PRODUCT MATERIALS USED WITH THESE PRODUCTS AND PRODUCT CONTAINERS WILL

A BMP (CONCRETE WASHOUT STATION) SHALL BE USED FOR ALL CONCRETE WASHDOWN OF TOOLS, CONCRETE MIXER CHUTES, HOPPERS AND THE REAR OF

CONCRETE TRUCK WASHING — NO CONCRETE TRUCKS WILL BE ALLOWED TO WASH OR DISCHARGE SURPLUS CONCRETE OR DRUM WASH WATER ONSITE.

FERTILIZER/HERBICIDES - THESE PRODUCTS WILL BE APPLIED AT RATES THAT DO NOT EXCEED THE MANUFACTURER'S SPECIFICATIONS OR ABOVE T

GUIDELINES SET FORTH IN THE CROP ESTABLISHMENT OR IN THE GSWCC MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA. ANY STORAGE OF

BUILDING MATERIALS - NO BUILDING OR CONSTRUCTION MATERIALS WILL BE BURIED OR DISPOSED OF ONSITE. ALL SUCH MATERIAL WILL BE DISPOSED OF

POLLUTANTS, OR WHERE EXPOSURE OF SPECIFIC MATERIALS OR PRODUCTS POSES LITTLE RISK TO STORMWATER CONTAMINATION (SUCH AS FINAL PRODUCTS

IN PROPER WASTE DISPOSAL PROCEDURES. PROVIDE COVER (E.G. PLASTIC SHEETING, TEMPORARY ROOFS) TO MINIMIZE THE EXPOSURE OF PRODUCTS TO

PRECIPITATION AND STORMWATER, OR A SIMILARLY EFFECTIVE MEANS DESIGNED TO MINIMIZE THE DISCHARGE OF POLLUTANTS FROM THESE AREAS. MINIMIZATION OF EXPOSURE IS NOT REQUIRED IN CASES WHERE EXPOSURE TO PRECIPITATION AND TO STORMWATER WILL NOT RESULT IN A DISCHARGE OF

IO. I CERTIFY THAT THE PERMITTEE'S EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN PROVIDES FOR AN APPROPRIATE AND COMPREHENSIVI

WASHOUT, ETC, SHOULD ANY OF THESE OCCUR, WILL BE CONTROLLED BY THE IMPLEMENTATION OF APPROPRIATE BEST MANAGEMENT PRACTICES. THE

THE PRIMARY PERMITTEE SHALL COMPLETE A LIST OF ALL SECONDARY PERMITTEES AND CONTACT INFORMATION IN THE SPACE PROVIDED BELOW AND PROVIDE A COPY OF THE PLAN (AND ANY SUBSEQUENT REVISIONS TO THE PLAN) TO EACH SECONDARY PERMITTEE. EACH SECONDARY PERMITTEE SHALL SIGN AS WRITTEN ACKNOWLEDGEMENT OF RECEIPT OF THE PLAN IN THE SPACE PROVIDED BELOW. THE PRIMARY PERMITTEE SHALL KEEP A COPY OF THE ACKNOWLEDGEMENTS ON-SITE IN HIS RECORDS.

SECONDARY PERMITTEES: COMPANY LEVEL IA CERT NO. _____ _ SIGNATURE_ **ADDRESS** COMPANY _____ LEVEL IA CERT NO. _____ _ SIGNATURE_ **ADDRESS** COMPANY LEVEL IA CERT NO. ____ _ Signature_ COMPANY **ADDRESS** CITY/ST/ZIP _____ LEVEL IA CERT NO. ___ SIGNATURE ALL HAZARDOUS WASTES:

ALL HAZARDOUS WASTE MATERIALS WILL BE DISPOSED OF IN THE MANNER SPECIFIED BY LOCAL, STATE AND/OR FEDERAL REGULATIONS AND BY THE MANUFACTURER OF SUCH PRODUCTS. THE JOB SITE SUPERINTENDENT, WHO WILL ALSO BE RESPONSIBLE FOR SEEING THAT THESE PRACTICES ARE FOLLOWED, WILL INSTRUCT SITE PERSONNEL IN THESE PRACTICES. MATERIAL SAFETY DATA SHEETS (MSDS'S) FOR EACH Substance with Hazardous properties that is used on the Job Site will be obtained and used for the proper management of POTENTIAL WASTES THAT MAY RESULT FROM THESE PRODUCTS. AN MSDS WILL BE MAINTAINED IN THE ESPCP FILE AT THE JOB SITE CONSTRUCTION TRAILER OFFICE. EACH EMPLOYEE WHO MUST HANDLE A SUBSTANCE WITH HAZARDOUS PROPERTIES WILL BE INSTRUCTED ON THE USED OF MSDS SHEETS AND THE SPECIFIC INFORMATION IN THE APPLICABLE MSDS FOR THE PRODUCT HE/SHE IS USING, PARTICULARLY REGARDING SPILL CONTROL TECHNIQUES.

THE CONTRACTOR WILL IMPLEMENT THE SPILL PREVENTION CONTROL AND COUNTERMEASURES (SPCC) PLAN FOUND WITHIN THIS ESPCP AND WILL TRAIN ALL PERSONNEL IN THE PROPER CLEANUP AND HANDLING OF SPILLED MATERIALS. NO SPILLED HAZARDOUS MATERIAL OR HAZARDOUS WASTES WILL BE ALLOWED TO COME IN CONTACT WITH STORMWATER DISCHARGES. IF SUCH CONTACT OCCURS, THE STORMWATER DISCHARGE WILL BE CONTAINED ON SITE UNTIL APPROPRIATE MEASURES IN COMPLIANCE WITH STATE AND FEDERAL REGULATIONS ARE TAKEN TO DISPOSE OF SUCH CONTAMINATED STORMWATER. IT SHALL BE THE RESPONSIBILITY OF THEIR JOB SITE SUPERINTENDENT TO PROPERLY TRAIN ALL PERSONNEL IN THE USE OF THE SPCC PLAN.

SANITARY WASTES: A MINIMUM OF ONE PORTABLE SANITARY UNIT WILL BE PROVIDED TO EVERY TEN (10) WORKERS ON THE SITE. ALL SANITARY WASTE WILL BE COLLECTED FROM THE PORTABLE UNITS A MINIMUM OF ONE TIME PER WEEK BY A LICENSED PORTABLE FACILITY PROVIDER IN COMPLETE COMPLIANCE WITH LOCAL AND STATE REGULATIONS.

ALL SANITARY WASTE UNITS WILL BE LOCATED IN AN AREA WHERE THE LIKELIHOOD OF THE UNIT CONTRIBUTING TO STORMWATER DISCHARGE IS NEGLIGIBLE. ADDITIONAL CONTAINMENT BMP'S MUST BE IMPLEMENTED, SUCH AS GRAVEL BAGS OR SPECIALLY DESIGNED PLASTIC SKID CONTAINERS AROUND THE BASE, TO PREVENT WASTES FROM CONTRIBUTING TO STORM WATER DISCHARGES. THE LOCATION OF WASTE UNITS MUST BE IDENTIFIED ON THE EROSION CONTROL PLAN GRADING PHASE BY THE CONTRACTOR ONCE THE LOCATIONS HAVE BEEN DETERMINED.

SANITARY SEWER WILL BE PROVIDED BY MUNICIPAL AUTHORITY AT THE COMPLETION OF THE PROJECT.

- SEE ES&PC INSPECTIONS PLAN FOR PRIMARY, SECONDARY AND TERTIARY PERMITTEE REQUIREMENTS; SAMPLING FREQUENCY, SAMPLE TYPE, REPORTING, RETENTION OF RECORDS AND SAMPLE REQUIREMENTS. IF SAMPLING IS NOT REQUIRED FOR THIS PROJECT, THE ES&PC INSPECTIONS PLAN WILL NOT BE INCLUDED IN THE SET OF CONSTRUCTION PLANS AND A NOTE ON THE ES&PC NOTES WILL SPECIFICALLY STATE THAT
- THE ALLOWABLE INCREASE IN TURBIDITY BETWEEN THE DOWNSTREAM AND UPSTREAM SAMPLING POINTS IN THE RECEIVING WATERS, WHICH ARE CLASSIFIED AS WARM WATER, FOR THIS PROJECT IS 25 NTU.
- 23. THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OF EROSION AND SEDIMENT CONTROL MEASURES AND PRACTICES PRIOR TO, OR CONCURRENT WITH, LAND DISTURBING ACTIVITIES.
- 24. EROSION CONTROL MEASURES WILL BE MAINTAINED AT ALL TIMES. IF FULL IMPLEMENTATION OF THE APPROVED PLAN DOES NOT PROVIDE FOR EFFECTIVE EROSION CONTROL, ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE, OR AS DIRECTED BY THE EROSION CONTROL INSPECTOR.
- 25. ANY DISTURBED AREA LEFT EXPOSED FOR A PERIOD GREATER THAN 14 DAYS SHALL BE STABILIZED WITH MUCH OR TEMPORARY SEEDING.
- 26. ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL CONFORM WITH THE GUIDELINES OF THE "MANUAL FOR EROSION AND SEDIMENT
- ACCORDING TO FLOOD INSURANCE RATE MAP 13089C0078K DATED AUGUST 15, 2019, THE PROPERTY IS UPSTREAM OF A FLOOD ZONE A WHICH IS AREA SUBJECT TO INUNDATION BY THE 1% ANNUAL CHANCE FLOOD EVENT. BECAUSE DETAILED HYDRAULIC ANALYSES HAVE NOT
- 28. EROSION CONTROL AND TREE PROTECTION MEASURES SHALL BE INSTALLED PRIOR TO ANY OTHER CONSTRUCTION ACTIVITY AND MAINTAINED UNTIL PERMANENT GROUND COVER IS ESTABLISHED.

BEEN PERFORMED, BASE FLOOD ELEVATIONS (BFEs) OR FLOOD DEPTHS ARE SHOWN ON THE FIRM PANEL.

- 29. ADDITIONAL EROSION CONTROL MEASURES MAY BE REQUIRED BY FIELD INSPECTOR.
- 30. I CERTIFY UNDER PENALTY OF LAW THAT THIS PLAN WAS PREPARED AFTER A SITE VISIT TO THE SITE LOCATION DESCRIBED HEREIN BY MYSELF AND/OR BY MY AUTHORIZED AGENT UNDER MY DIRECT SUPERVISION.

WALDEN, ASHWORTH & ASSOCIATES, INC.

SIGNATURE:	Jam Ropplean	CERTIFICATION NO.:	3031	EXPIRATION DATE:	12/07/2
SIGNATIONE.	JASON RAPPLEAN, P.E., VICE PRESIDENT		•		, ., .

INSTALLATION OF THE INITIAL SEDIMENT STORAGE REQUIREMENTS AND PERIMETER CONTROL BMP'S WITHIN 7 DAYS AFTER INSTALLATION. I CERTIFY UNDER PENALTY OF LAW THAT THIS PLAN WAS PREPARED AFTER A SITE VISIT TO THE LOCATIONS DESCRIBED HEREIN BY MYSELF OR MY

THE DESIGN PROFESSIONAL WHO PREPARED THE ES&PC PLAN IS TO INSPECT THE

SYSTEM OF BEST MANAGEMENT PRACTICES REQUIRED BY THE GEORGIA WATER QUALITY CONTROL ACT AND THE DOCUMENT "MANUAL FOR EROSIC AND SEDIMENT CONTROL IN GEORGIA" (MANUAL) PUBLISHED BY THE GEORGIA SOIL AND WATER CONSERVATION COMMISSION AS OF JANUARY 1 OF YEAR IN WHICH THE LAND-DISTURBING ACTIVITY WAS PERMITTED, PROVIDES FOR THE SAMPLING OF THE RECEIVING WATER(S) OR THE SAMPLING THE STORM WATER OUTFALLS AND THAT THE DESIGNED SYSTEM OF BEST MANAGEMENT PRACTICES AND SAMPLING METHODS IS EXPECTED TO MEE

VASON RAPPLEAN, P.E.	, VICE PRESIDENT		GSWCC LEVE	.L 11	DESTON	PRUFESSIONA	L C	ERITFICATIO	N #
ACCORDANCE WITH A SYSTEM DESIGNED TO BASED ON MY INQUIRY OF THE PERSON OR GATHERING THE INFORMATION, THE INFORMAT	ASSURE THAT CERTIFIED PERSONNE PERSONS WHO MANAGE THE SYSTE TON SUBMITTED IS TO THE BEST OF	ITS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN EL PROPERLY GATHER AND EVALUATE THE INFORMATION SUBMITTED. EM, OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR IF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE, AND COMPLETE. I PRIMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR	м	I REVE	EALED T	HE FOLLOWING	DISCRE	PANCIES FRO	M THE ES
SIGNED BY PRIMARY PERMITTEE:.			-						
NAME:	COMPANY	ADDRESS							

CERTIFICATION NO.: 3031 EXPIRATION DATE: 12/07/26

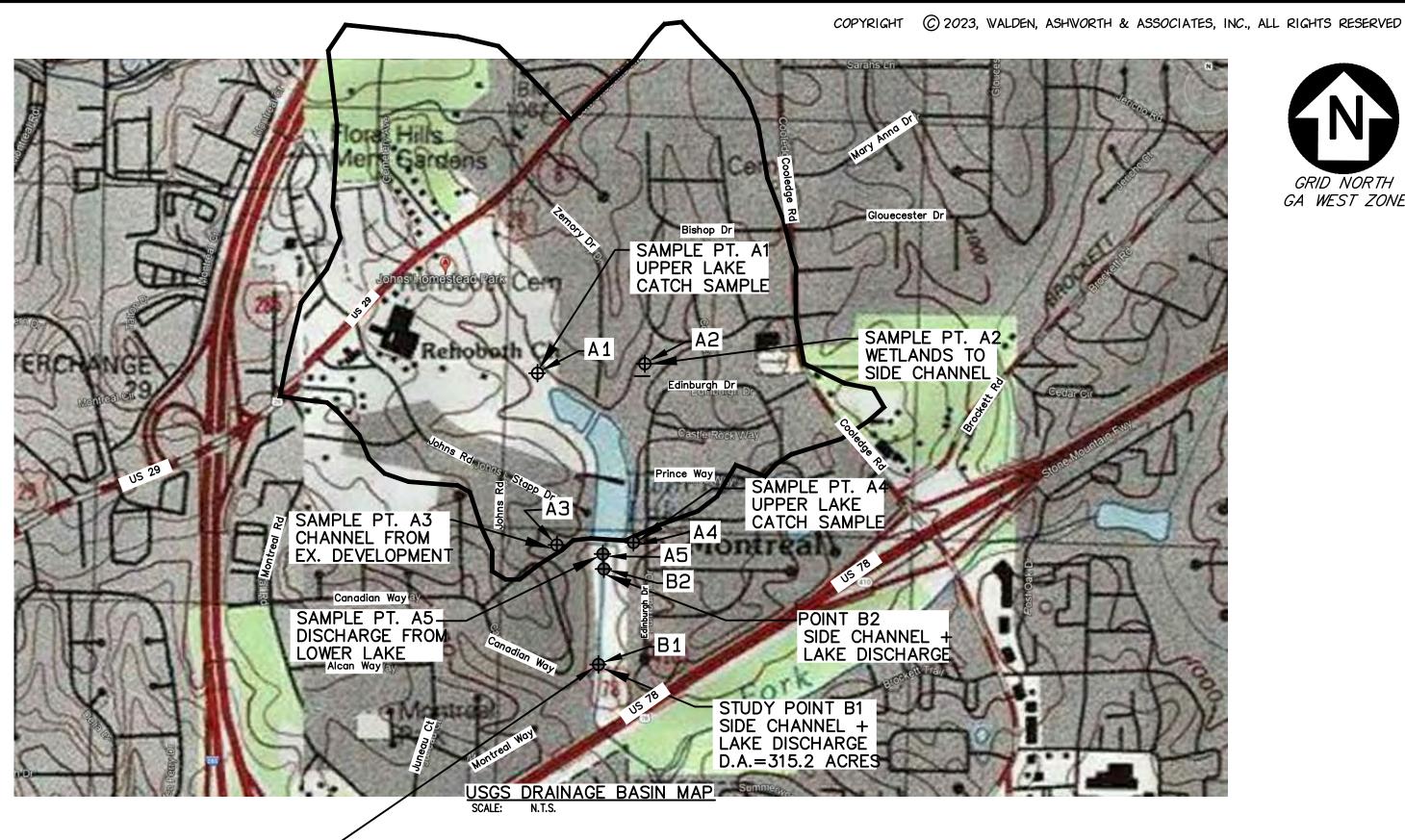
_LEVEL IA CERT NO. _____ __SIGNATURE . A HYDROLOGY STUDY <u>WILL NOT</u> ACCOMPANIES THESE ES&PC DRAWINGS AND FORMS PART OF THE PLANS; OR IF THE PROJECT IS A MINOR LAND DISTURBING PROJECT WHERE THERE IS NO INCREASE AND/OR A REDUCTION IN THE SITE'S IMPERVIOUS AREA, AN HYDROLOGY STATEMENT SHALL BE PLACED ON THE ES&PC CLEARING AND/OR GRADING PHASE PLAN STATING WHY A HYDROLOGY STUDY IS NOT PROVIDED AND THE IMPROVEMENTS DENOTED ON THE CONSTRUCTION PLANS WILL NOT CAUSE AN INCREASE IN PEAK RUNOFF RATES FROM THE SITE ONTO THE DOWNSTREAM PROPERTIES.

- 3. WHERE APPLICABLE 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.
- 4. THE PRIMARY PERMITTEE AND TERTIARY PERMITTEE(S) MUST RETAIN THE DESIGN PROFESSIONAL WHO PREPARED THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN, EXCEPT WHEN THE PERMITTEE HAS REQUESTED IN WRITING AND EPD HAS AGREED TO AN ALTERNATE DESIGN PROFESSIONAL. TO INSPECT THE INSTALLATION OF THE INITIAL SEDIMENT STORAGE REQUIREMENTS AND PERIMETER CONTROL BMPS WHICH THE DESIGN PROFESSIONAL DESIGNED WITHIN SEVERN (7) DAYS AFTER INSTALLATION. THE DESIGN PROFESSIONAL SHALL DETERMINE IF THESE BMPS HAVE BEEN INSTALLED AND ARE BEING MAINTAINED AS DESIGNED. THE DESIGN PROFESSIONAL SHALL REPORT THE RESULTS OF THE INSPECTION TO THE PERMITTEE WITHIN SEVEN (7) DAYS AND THE PERMITTEE MUST CORRECT ALL DEFICIENCIES WITHIN TWO (2) BUSINESS DAYS OR RECEIPT OF THE INSPECTION REPORT FROM THE DESIGN PROFESSIONAL UNLESS WEATHER RELATED SITE CONDITIONS ARE SUCH THAT ADDITIONAL TIME IS REQUIRED.
- . THE PRIMARY, SECONDARY OR TERTIARY PERMITTEES, AS APPLICABLE, SHALL AMEND THEIR PLANS WHENEVER THERE IS A CHANGE IN DESIGN, CONSTRUCTION, OPERATION, OR MAINTENANCE, WHICH HAS A SIGNIFICANT EFFECT ON BMPS WITH A HYDRAULIC COMPONENT. AMENDMENTS TO THE PLANS MUST BE CERTIFIED BY THE DESIGN PROFESSIONAL. ALL REVISIONS OR AMENDMENTS SHALL BE SUBMITTED TO THE LOCAL ISSUING AUTHORITY
- 8. NO WASTE MATERIALS. INCLUDING BUT NOT LIMITED TO WASTE BUILDING MATERIALS, CONSTRUCTION AND DEMOLITION DEBRIS, CONCRETE WASHOUT OR EXCAVATED SEDIMENT, SHALL BE DISCHARGED TO WATERS OF THE STATE, EXCEPT AS AUTHORIZED BY A SECTION 404 PERMIT.

IT	
: On The	DESIGN PROFESSIONAL / 7 DAY VISIT VERIFICATION DATE OF INSPECTION
OF ET	I CERTIFY THE SITE WAS IN COMPLIANCE WITH THE ES&PC PLAN ON THE DATE OF INSPECTION
	CONCO I EVEL II DECION DECECCIONAL CEDITETOATION #
	GSWCC LEVEL II DESIGN PROFESSIONAL CERTIFICATION #
D. I AM IT FOR	INSPECTION REVEALED THE FOLLOWING DISCREPANCIES FROM THE ES&PC PLAN.
II FUK	

THE DEFICIENCIES MUST BE ADDRESSED AND A RE-INSPECTION SCHEDULED. WORK SHALL

NOT PROCEED ON THE SITE UNTIL THE DESIGN PROFESSIONAL'S CERTIFICATION IS



DRAINAGE BASIN: 0.4925 SQ. MI (DISTURBED AREA WITHIN IT IS A TOTAL OF 315 ACRES WITH THE TWO DAM'S CONSTRUCTION DISTURBING 3.5 AC.

GENERAL EROSION CONTROL NOTES:

- EROSION CONTROL PRACTICES MUST COMPLY WITH THE MINIMUM BEST MANAGEMENT PRACTICES FOR EROSION CONTROL FOR THE CITY OF TUCKER, AND SHALL COMPLY WITH THE STANDARDS/SPECIFICATIONS IN THE "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA"
- IN CONCENTRATED FLOW AREAS, ALL SLOPES STEEPER THAN 3:1 AND WITH A HEIGHT TEN FEET OR GREATER, AND CUTS AND FILLS WITHIN STREAM BUFFERS, SHALL BE STABILIZED WITH THE APPROPRIATE EROSION CONTROL MATTING AND BLANKET.
- MULCH TEMPORARY VEGETATION ON ALL EXPOSED AREAS WITHIN 14 DAYS AFTER DISTURBANCE. THIS NOTE APPLIES AFTER THE INITIAL GRADING OR DEVELOPMENT OF THE LOT. 4. DISTURBED AREAS LEFT IDLE FOR FIVE DAYS,AND NOT TO FINAL GRADE, WILL NEED TO ESTABLISH TEMPORARY VEGETATION BY USING Ds1 / Ds2. ALL AREAS TO FINAL GRADE WILL BE ESTABLISHED TO PERMANENT VEGETATION BY USING Ds3 OR Ds4 IMMEDIATELY UPON COMPLETION.
- WHEN PLANTING VEGETATION, MULCH (HAY OR STRAW) SHOULD BE UNIFORMLY SPREAD OVER SEEDED AREA WITHIN 24 HOURS OF SEEDING.
- 6. A LAND DISTURBANCE PERMIT/BUILDING PERMIT MUST BE DISPLAYED ON SITE AT ALL TIMES DURING CONSTRUCTION AND IN PLAIN VIEW FROM A PUBLIC ROAD OR STREET.
- EROSION AND SEDIMENT CONTROL DEVICES MUST BE INSTALLED AND INSPECTED PRIOR TO ANY GRADING ON SITE. 8. SEDIMENT/EROSION CONTROL DEVICES MUST BE CHECKED AFTER EACH STORM EVENT. EACH DEVICE IS TO BE MAINTAINED OR REPLACED IF SEDIMENT ACCUMULATION HAS REACHED ONE HALF THE CAPACITY OF THE DEVICE. ADDITIONAL DEVICES MUST BE INSTALLED IF NEW CHANNELS HAVE DEVELOPED.
- 9. THE USE OF POLYMERS (PAMS) IS ACCEPTED AS A BMP AS RECOMMENDED BY THE STATE SOIL & WATER CONSERVATION COMMISSION BMP "GREEN BOOK". POLYMERS USED TO STABILIZE CONSTRUCTION SITES MUST BE USED IN CONJUNCTION WITH MULCHING AND OR HYDRO SEEDING.
- ADDITIONAL EROSION CONTROL DEVICES TO BE USED AS REQUIRED BY THE CITY OF BLAIRSVILLE 11. IF STREAMS ARE ON YOUR SITE, THE CITY OF TUCKER WILL REQUIRE THAT THE STREAM BUFFERS BE LEFT UNDISTURBED, OR A STATE WATERS BUFFER VARIANCE BE ACQUIRED BEFORE CONSTRUCTION BEGINS ON THE SITE.
- 12. THE ES&PC FACILITIES SHOWN ON THIS PLAN ARE THE MINIMUM REQUIREMENTS FOR ANTICIPATED SITE CONDITIONS. DURING THE CONSTRUCTION/LAND DISTURBANCE PERIOD, THESE ES&PC FACILITIES
- SHALL BE UPGRADED AS NEEDED FOR UNEXPECTED STORM EVENTS AND TO ENSURE THAT SEDIMENT AND SEDIMENT-LADEN WATER NO NOT LEAVE THE SITE.
- 13. THE ES&PC FACILITIES SHALL BE INSPECTED DAILY BY THE APPLICANT/CONTRACTOR AND MAINTAINED AS NECESSARY TO ENSURE THEIR CONTINUED FUNCTIONING. 14. THE ES&PC FACILITIES ON INACTIVE SITES SHALL BE INSPECTED AND MAINTAINED AS NECESSARY TO ENSURE THEIR CONTINUED FUNCTIONING.
- 15. I CERTIFY AS THE PLAN DESIGNER THAT I HAVE VISITED THE SITE PRIOR TO THE DESIGN OF THE ES&PC PLANS.
- 16. SILT FENCE CANNOT BE USED TO STORE SEDIMENT. THE USE OF BASINS, SEDIMENT TRAPS AND OTHER SIMILAR BMPS IN ACCORDANCE WITH STATE LAW ARE REQUIRED.
- 17. STABILIZED CONSTRUCTION EXITS SHALL BE INSTALLED AT THE BEGINNING OF LAND DISTURBANCE AND MAINTAINED FOR THE DURATION OF THE PROJECT. ADDITIONAL MEASURES MAY BE REQUIRED TO ENSURE THAT ALL PAVED AREAS ARE KEPT CLEAN FOR THE DURATION OF THE PROJECT. 18. IF THE CONTRACTOR CHOOSES TO UTILIZE AN ALTERNATIVE TYPE C SILT FENCE TECHNOLOGY, IT SHALL BE IDENTIFIED IN GA DOT DOCUMENT QPL-36. ANY ALTERNATIVE TECHNOLOGY NOT IDENTIFIED
- IN THIS DOCUMENT CANNOT BE UTILIZED WITHOUT THE DESIGN ENGINEER REVISING THE APPROVED ES&PC PLAN WITH REVIEW AND APPROVAL BY THE CITY OF TUCKER'S PUBLIC WORKS—ENGINEERING. 19. NO CLEARING OF THE SITE UNTIL ALL BASINS, DIVERSIONS, AND SEDIMENT CONTROLS ARE INSTALLED, STABILIZED, AND FUNCTIONAL
- 20. THE IMPLEMENTATION OF THIS ES&PC PLAN AND THE CONSTRUCTION, MAINTENANCE, REPLACEMENT, AND UPGRADING OF THESE ES&PC FACILITIES IS THE RESPONSIBILITY OF THE APPLICANT/CONTRACTOR UNTIL ALL CONSTRUCTION IS COMPLETED AND APPROVED AND VEGETATION/LANDSCAPING IS ESTABLISHED PER CITY CODE.
- 21. THE ES&PC FACILITIES SHOWN ON THIS PLAN MUST BE CONSTRUCTED IN CONJUNCTION WITH ALL CLEARING AND GRADING ACTIVITIES, AND IN SUCH A MANNER AS TO INSURE THAT SEDIMENT AND SEDIMENT—LADEN WATER DO NOT ENTER THE DRAINAGE SYSTEM, ROADWAYS, OR VIOLATE APPLICABLE WATER QUALITY STANDARDS.
- 22. AT NO TIME SHALL MORE THAN ONE FOOT OF SEDIMENT BE ALLOWED TO ACCUMULATE WITHIN AN INLET/CATCH BASIN/STORMWATER MANHOLE. ALL INLET/CATCH BASIN/STORMWATER MANHOLES AND CONVEYANCE LINES SHALL BE CLEANED PRIOR TO PAVING. THE CLEANING OPERATION SHALL NOT FLUSH SEDIMENT-LADEN WATER INTO DOWNSTREAM SYSTEMS OR STATE WATERS. **EROSION CONTROL NARRATIVE:**

THE SITE FOR THE DAM(S) RENOVATIONS PROJECT LOCATED ON PARK AND RECREATION PROPERTY (JOHN HOMESTEAD PARK) IN CITY OF TUCKER, JOHN HOMESTEAD PARK, LAND LOTS 143, 144, 165 AND 166 OF THE 18TH DISTRICT IN DEKALB COUNTY, GA. THE PURPOSE OF THE PROJECT IS TO RENOVATE TWO LAKES-DAMS THAT ARE IN A STATE OF NEAR FAILURE, CONSTRUCT NEW SPILLWAYS, RENOVATE THE DAMS, FILL IN THE SIDE CHANNEL SPILLWAY THAT IS FLOWING TO AN UNNAMED TRIBUTARY OF SOUTH FORK PEACHTREE CREEK. THE UNNAMED TRIBUTARY IS WITHIN 1 MILE OF THE SITEWORK AND IS LISTED ON THE 2022 INTEGRATED 305(b)/303(D) LIST FOR RIVERS AND STREAMS. THE SITE IS OWNED BY THE CITY OF TUCLKER; AND IS BEING DEVELOPED BY THEIR PARKS DIVISION. THE LAKES WILL BE DRAINED DURING THE CONSTRUCTION PROCESS. A STATE WATERS BUFFER VARIANCE AND 404 WETLANDS IMPACTS PERMIT HAS BEEN ISSUED FOR THIS PROJECT. ONCE THE BMP'S ARE INSTALLED AND INSPECTED THE ENGINEER WILL GO OVER THE CONSTRUCTION SEQUENCING WIYTH THE CONTRACTOR AND OWNER TO ENSURE THE DAMS ARE RENOVATED IN A A,MMER THAT WILL, PROTECT THE STREAMS AND WETLANDS OUTSIDE OF THE L.O.D. .AN ENGINEER OF RECORD OF HIS REPRESTATIVE WILL BE ONSITE DURING ALL CONSTRUCTION ACTIVITIES UNTIL CONSTRUCITON IS COMPLETE AND THE SITE IS STABILIZED.

THE PROPERTY IS 49.4 ACRES, OF WHICH APPROXIMATELY 4.5 ACRES WILL BE DISTURBED BY THE PROPOSED EMERGENCY WORK. THE RECEIVING WATERS FOR THIS SITE IS A TRIBUTARY OF SOUTH FORK PEACHTREE CREEK. SEE PLAN FOR ALL TEMPORARY AND PERMANENT VEGETATIVE PLANTINGS AND PRACTICES TO BE UTILIZED ON THE SITE.

- 3. THE SEDIMENT AND EROSION CONTROL DETAILS TO BE UTILIZED ON THE SITE AREA ARE SHOWN ON THE EROSION CONTROL DETAIL SHEETS AND ARE AVAILABLE WITHIN THE LATEST EDITION OF THE GEORGIA SEDIMENT AND EROSION CONTROL MANUAL.
- ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE MAINTAINED AT ALL TIMES. ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES AND Practices shall be installed as deemed necessary by on—site inspection.
- THE MAINTENANCE OF ALL SEDIMENT AND EROSION CONTROL MEASURES AND PRACTICES, WHETHER TEMPORARY OR PERMANENT, SHALL BE AT ALL
- TIMES THE RESPONSIBILITY OF THE CONTRACTOR UNTIL SUBSTANTIAL COMPLETION.
- 6. THE PROPERTY IS LOCATED WITHIN A ZONE A (100-YEAR) FLOOD HAZARD AREA BASED ON FIRM PANELS 13089C0078K DATED 08/15/2019.
- A <u>STATE WATERS BUFFER VARIANCE WAS APPROVED</u> BY GA. D.N.R., EPD FOR THIS PROJECT ON NOV. 15, 2023 (FILE No.: BV-044-23-12). 8. A PRE-CONSTRUCTION NOTIFICATION REQUESTING USE OF N.W.P. No. 3 WAS APPROVED BY THE U.S. ARMY CORPS OF ENGINEERS, SAVANNAH DIST. ON
- MARCH 1, 2024 FOR THE PROJECT INCLUDING THE DAM IMPROVEMENTS.



PRIMARY PERMITTEE

CITY OF TUCKER PAKS AND RECREATION DEPT. 4898 LAVISTA RD, TUCKER, GA 30084 CONTACT: RIP ROBERTSON, DIRECTOR PHONE: (470) 481-0205 EMAIL: rrobertson@tuckerga.gov

GA WEST ZONE

24 HR. CONTACT PERSON

RIP ROBERTSON

(470) 481-0205

0

CKD. REFERENCE DRAWINGS REVISIONS DATE DRAWING NO.



SCALE: AS SHOWN 01/23 JR/JH DESIGN BY: JH/EC 01/23 DRAWN BY: 01/23 CHECKED BY: CDA: PEF 000707 | EXP: 06/30/2024 JASON RAPPLEAN, PE, EOR

LEVEL 2 CERTIFICATION # 3031

EXPIRATION DATE:

12/07/26

JOHNS HOMESTEAD PARK **EROSION CONTROL** NPDES NOTES, NARRATIVE, BASIN MAP

CITY OF TUCKER AND DEKALB COUNTY



WALDEN, ASHWORTH & ASSOCIATES, INC.

CONSULTING ENGINEERS P.O. BOX 6462 MARIETTA, GEORGIA 30065

(770) 956 - 7879

42016-C-200

- THE PRIMARY PERMITTEE AND TERTIARY PERMITTEE(S) MUST RETAIN THE DESIGN PROFESSIONAL WHO PREPARED THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN. EXCEPT WHEN THE PERMITTEE HAS REQUESTED IN WRITING AND EPD HAS AGREED TO AN ALTERNATE DESIGN PROFESSIONAL, TO INSPECT THE INSTALLATION OF THE INITIAL SEDIMENT STORAGE REQUIREMENTS AND PERIMETER CONTROL BMPS WHICH THE DESIGN PROFESSIONAL DESIGNED WITHIN SEVERN (7) DAYS AFTER INSTALLATION. THE DESIGN PROFESSIONAL SHALL DETERMINE IF THESE BMPS HAVE BEEN INSTALLED AND ARE BEING MAINTAINED AS DESIGNED. THE DESIGN PROFESSIONAL SHALL REPORT THE RESULTS OF THE INSPECTION TO THE PERMITTEE WITHIN SEVEN (7) DAYS AND THE PERMITTEE MUST CORRECT ALL DEFICIENCIES WITHIN TWO (2) BUSINESS DAYS OR RECEIPT OF THE INSPECTION REPORT FROM THE DESIGN PROFESSIONAL UNLESS WEATHER RELATED SITE CONDITIONS ARE SUCH THAT ADDITIONAL TIME IS REQUIRED.
- THE PRIMARY, SECONDARY OR TERTIARY PERMITTEES, AS APPLICABLE, SHALL AMEND THEIR PLANS WHENEVER THERE IS A CHANGE IN DESIGN, CONSTRUCTION, OPERATION, OR MAINTENANCE. WHICH HAS A SIGNIFICANT EFFECT ON BMPS WITH A HYDRAULIC COMPONENT. AMENDMENTS TO THE PLANS MUST BE CERTIFIED BY THE DESIGN PROFESSIONAL. ALL REVISIONS OR AMENDMENTS SHALL BE SUBMITTED TO THE LOCAL ISSUING AUTHORITY FOR REVIEW.

INSPECTIONS:

. PERMITTEE REQUIREMENTS.

). EACH DAY WHEN ANY TYPE OF CONSTRUCTION ACTIVITY HAS TAKEN PLACE AT A PRIMARY PERMITTEE'S SITE, CERTIFIED PERSONNEL PROVIDED BY THE PRIMARY PERMITTEE SHALL INSPECT: (A) ALL AREAS AT THE PRIMARY PERMITTEE'S SITE WHERE PETROLEUM PRODUCTS ARE STORED, USED, OR HANDLED FOR SPILLS AND LEAKS FROM VEHICLES AND EQUIPMENT AND (B) ALL LOCATIONS AT THE PRIMARY PERMITTEE'S SITE WHERE VEHICLES ENTER OR EXIT THE SITE FOR EVIDENCE OF OFF SITE SEDIMENT TRACKING. THESE INSPECTIONS MUST BE CONDUCTED UNTIL A NOTICE OF TERMINATION IS SUBMITTED.

.). MEASURE AND RECORD RAINFALL WITHIN DISTURBED AREA OF THE SITE THAT HAVE NOT MET FINAL STABILIZATION ONCE EVERY 24 HOURS XCEPT ANY NON-WORKING NON-WORKING SUNDAY AND NON-WORKING FEDERAL HOLIDAY. THE DATA COLLECTED FOR THE PURPOSE OF COMPLIANCE WITH THIS PERMIT SHALL BE REPRESENTATIVE OF THE MONIORED ACTIVITY. MEASUREMENT OF RAINFALL MAY BE SUSPENDED IF ALL AREAS OF THE SITE HAVE UNDERGONE FINAL STABILIZATION OR ESTABLISHED A CROP OF ANNUAL VEGETATION AND A SEEDING OF TARGET PERENNIALS APPROPRIATE FOR THE REGION.

3). CERTIFIED PERSONNEL (PROVIDED BY THE PRIMARY PERMITTEE) SHALL INSPECT THE FOLLOWING AT LEAST ONCE EVERY SEVEN (7) CALENDAR DAYS AND WITHIN 24 HOURS OF THE END OF A STORM THAT IS 0.5 INCHES RAINFALL OR GREATER (UNLESS SUCH STORM ENDS AFTER 5:00 PM ON ANY FRIDAY OR ON ANY NON-WORKING SATURDAY. NON-WORKING SUNDAY OR ANY NON-WORKING FEDERAL HOLIDAY IN WHICH CASE THE INSPECTION SHALL BE COMPLETED BY THE END OF THE NEXT BUSINESS DAY AND/OR WORKING DAY, WHICHEVER OCCURS FIRST): (A) DISTURBED AREAS OF THE PRIMARY PERMITTEE'S CONSTRUCTION SITE; (B) AREAS USED BY THE PRIMARY PERMITTEE FOR STORAGE OF MATERIALS THAT ARE EXPOSED TO PRECIPITATION; AND (C) STRUCTURAL CONTROL MEASURES. EROSION AND SEDIMENT CONTROL MEASURES IDENTIFIED IN THE PLAN APPLICABLE TO THE PRIMARY PERMITTEE'S SITE SHALL BE OBSERVED TO ENSURE THAT THEY ARE OPERATING CORRECTLY. WHERE DISCHARGE LOCATIONS OR POINTS ARE ACCESSIBLE, THEY SHALL BE INSPECTED TO ASCERTAIN WHETHER EROSION CONTROL MEASURES ARE EFFECTIVE IN PREVENTING SIGNIFICANT IMPACTS TO RECEIVING WATER(S). FOR AREAS OF A SITE THAT HAVE UNDERGONE FINAL STABILIZATION OR ESTABLISHED A CROP OF ANNUAL VEGETATION AND A SEEDING OF TARGET PERENNIALS APPROPRIATE FOR THE REGION, THE PERMITTEE MUST COMPLY WITH PART [V.D.4.A.(4)]. THESE INSPECTIONS MUST BE CONDUCTED UNTIL A NOTICE OF TERMINATION IS SUBMITTED.

4). CERTIFIED PERSONNEL (PROVIDED BY THE PRIMARY PERMITTEE) SHALL INSPECT AT LEAST ONCE PER MONTH DURING THE TERM OF THIS PERMIT (I.E., UNTIL A NOTICE OF TERMINATION HAS BEEN SUBMITTED) THE AREAS OF THE SITE THAT HAVE UNDERGONE FINAL STABILIZATION OR ESTABLISHED A CROP OF ANNUAL VEGETATION AND A SEEDING OF TARGET PERENNIALS APPROPRIATE FOR THE REGION. THESE AREAS SHALL BE INSPECTED FOR EVIDENCE OF, OR THE POTENTIAL FOR, POLLUTANTS ENTERING THE DRAINAGE SYSTEM AND THE RECEIVING WATER(S) EROSION AND SEDIMENT CONTROL MEASURES IDENTIFIED IN THE PLAN SHALL BE OBSERVED TO ENSURE THAT THEY ARE OPERATING CORRECTLY. WHERE DISCHARGE LOCATIONS OR POINTS ARE ACCESSIBLE, THEY SHALL BE INSPECTED TO ASCERTAIN WHETHER EROSION CONTROL MEASURES ARE EFFECTIVE IN PREVENTING SIGNIFICANT IMPACTS TO RECEIVING WATER(S).

5). BASED ON THE RESULTS OF EACH INSPECTION, THE SITE DESCRIPTION AND THE POLLUTION PREVENTION AND CONTROL MEASURES IDENTIFIED IN THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN, THE PLAN SHALL BE REVISED AS APPROPRIATE NOT LATER THAN SEVEN (7) CALENDAR DAYS FOLLOWING EACH INSPECTION. IMPLEMENTATION OF SUCH CHANGES SHALL BE MADE AS SOON AS PRACTICAL BUT IN NO CASE LATER THAN SEVEN (7) CALENDAR DAYS FOLLOWING EACH INSPECTION.

(6). A REPORT OF EACH INSPECTION THAT INCLUDES THE NAME(S) OF CERTIFIED PERSONNEL MAKING EACH INSPECTION, THE DATE(S) OF EACH INSPECTION, CONSTRUCTION PHASE (I.E., INITIAL, INTERMEDIATE OR FINAL), MAJOR OBSERVATIONS RELATING TO THE IMPLEMENTATION OF THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN, AND ACTIONS TAKEN IN ACCORDANCE WITH PART LV.D.4.A.(5), OF THE PERMIT SHALL BE MADE AND RETAINED AT THE SITE OR BE READILY AVAILABLE AT A DESIGNATED ALTERNATE LOCATION UNTIL THE ENTIRE SITE OR THAT PORTION OF A CONSTRUCTION PROJECT THAT HAS BEEN PHASED HAS UNDERGONE FINAL STABILIZATION AND A NOTICE OF TERMINATION IS SUBMITTED TO EPD. SUCH REPORTS SHALL BE READILY AVAILABLE BY END OF THE SECOND BUSINESS DAY AND/OR WORKING DAY AND SHALL IDENTIFY ALL INCIDENTS OF BEST MANAGEMENT PRACTICES THAT HAVE NOT BEEN PROPERLY INSTALLED AND/OR MAINTAINED AS DESCRIBED IN THE PLAN. WHERE THE REPORT DOES NOT IDENTIFY ANY INCIDENTS, THE INSPECTION REPORT SHALL CONTAIN A CERTIFICATION THAT THE BEST MANAGEMENT PRACTICES ARE IN COMPLIANCE WITH THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN. THE REPORT SHALL BE SIGNED IN ACCORDANCE WITH PART V.G.2. OF THIS PERMIT

. MAINTENANCE:

THE PLAN SHALL INCLUDE A DESCRIPTION OF PROCEDURES TO ENSURE THE TIMELY MAINTENANCE OF VEGETATION, EROSION AND SEDIMENT CONTROL MEASURES AND OTHER PROTECTIVE MEASURES IDENTIFIED IN THE SITE PLAN.

5. SAMPLING REQUIREMENTS:

THIS PERMIT REQUIRES THE MONITORING OF NEPHELOMETRIC TURBIDITY IN RECEIVING WATER(S) OR OUTFALLS IN ACCORDANCE WITH THIS PERMIT. THIS PARAGRAPH SHALL NOT APPLY TO ANY LAND DISTURBANCE ASSOCIATED WITH THE CONSTRUCTION OF SINGLE-FAMILY HOMES WHICH ARE NOT PART OF A SUBDIVISION OR PLANNED COMMON DEVELOPMENT UNLESS FIVE (5) ACRES OR MORE WILL BE DISTURBED. THE FOLLOWING PROCEDURES CONSTITUTE EPD'S GUIDELINES FOR SAMPLING TURBIDITY.

A. SAMPLING REQUIREMENTS SHALL INCLUDE THE FOLLOWING:

(1) A USGS TOPOGRAPHIC MAP, A TOPOGRAPHIC MAP OR A DRAWING (REFERRED TO AS A TOPOGRAPHIC MAP) THAT IS A SCALE EQUAL TO OR MORE DETAILED THAN A 1:24000 MAP SHOWING THE LOCATION OF THE SITE OR THE STAND ALONE CONSTRUCTION; (A) THE LOCATION OF ALL PERENNIAL AND INTERMITTENT STREAMS AND OTHER WATER BODIES AS SHOWN ON A USGS TOPOGRAPHIC MAP, AND ALL OTHER PERENNIAL AND INTERMITTENT STREAMS AND OTHER WATER BODIES LOCATED DURING MANDATORY FIELD VERIFICATION. INTO WHICH THE STORM WATER IS DISCHARGED AND (B) THE RECEIVING WATER AND/OR OUTFALL SAMPLING LOCATIONS. WHEN THE PERMITTEE HAS CHOSEN TO USE A USGS TOPOGRAPHIC MAP AND THE RECEIVING WATER(S) IS NOT SHOWN ON THE USGS TOPOGRAPHIC MAP. THE LOCATION OF THE RECEIVING WATER(S) MUST BE HAND-DRAWN ON THE USGS TOPOGRAPHIC MAP FROM WHERE THE STORM WATER(S) ENTERS THE RECEIVING WATER(S) TO THE POINT WHERE THE RECEIVING WATER(S) COMBINES WITH THE FIRST BLUE LINE STREAM SHOWN ON THE USGS TOPOGRAPHIC MAP;

(2). A WRITTEN NARRATIVE OF SITE SPECIFIC ANALYTICAL METHODS USED TO COLLECT, HANDLE AND ANALYZE THE SAMPLES INCLUDING QUALITY CONTROL/QUALITY ASSURANCE PROCEDURES. THIS NARRATIVE MUST INCLUDE PRECISE SAMPLING METHODOLOGY FOR EACH SAMPLING LOCATION;

3). WHEN THE PERMITTEE HAS DETERMINED THAT SOME OR ALL OUTFALLS WILL BE SAMPLED, A RATIONALE MUST BE INCLUDED ON THE PLAN FOR THE NTU LIMIT(S) SELECTED FROM APPENDIX B. THIS RATIONALE MUST INCLUDE THE SIZE OF THE CONSTRUCTION SITE, THE CALCULATION OF THE SIZE OF THE SURFACE WATER DRAINAGE AREA, AND THE TYPE OF RECEIVING WATER(S) (I.E., TROUT STREAM OR SUPPORTING WARM WATER FISHERIES); AND

4). ANY ADDITIONAL INFORMATION EPD DETERMINES NECESSARY TO BE PART OF THE PLAN. EPD WILL PROVIDE WRITTEN NOTICE TO THE PERMITTEE OF THE INFORMATION NECESSARY AND THE TIME LINE FOR SUBMITTAL.

B. <u>Sample Type.</u> All sampling shall be collected by Grab Samples" and the analysis of these samples must be conducted in ACCORDANCE WITH METHODOLOGY AND TEST PROCEDURES ESTABLISHED BY 40 CFR PART 136 (UNLESS OTHER TEST PROCEDURES HAVE BEEN APPROVED): THE GUIDANCE DOCUMENT TITLED "NPDES STORM WATER SAMPLING GUIDANCE DOCUMENT, EPA 833-B-92 001" AND GUIDANCE DOCUMENTS THAT MAY BE PREPARED BY THE EPD.

- (1). SAMPLE CONTAINERS SHOULD BE LABELED PRIOR TO COLLECTING THE SAMPLES.
- (2). SAMPLES SHOULD BE WELL MIXED BEFORE TRANSFERRING TO A SECONDARY CONTAINER.

(3). LARGE MOUTH, WELL CLEANED AND RINSED GLASS OR PLASTIC JARS SHOULD BE USED FOR COLLECTING SAMPLES. THE JARS SHOULD BE CLEANED THOROUGHLY TO AVOID CONTAMINATION.

(4). MANUAL, AUTOMATIC OR RISING STAGE SAMPLING MAY BE UTILIZED. SAMPLES REQUIRED BY THIS PERMIT SHOULD BE ANALYZED IMMEDIATELY, BUT IN NO CASE LATER THAN 48 HOURS AFTER COLLECTION. HOWEVER, SAMPLES FROM AUTOMATIC SAMPLERS MUST BE COLLECTED NO LATER THAN THE NEXT BUSINESS DAY AFTER THEIR ACCUMULATION, UNLESS FLOW THROUGH AUTOMATED ANALYSIS IS UTILIZED. IF AUTOMATIC SAMPLING IS UTILIZED AND THE AUTOMATIC SAMPLER IS NOT ACTIVATED DURING THE QUALIFYING EVENT. THE PERMITTEE MUST UTILIZE MANUAL SAMPLING OR RISING STAGE SAMPLING DURING THE NEXT QUALIFYING EVENT. DILUTION OF SAMPLES IS NOT REQUIRED. SAMPLES MAY BE ANALYZED DIRECTLY WITH A PROPERLY CALIBRATED TURBIDIMETER. SAMPLES ARE NOT REQUIRED TO BE COOLED.

(5). SAMPLING AND ANALYSIS OF THE RECEIVING WATER(S) OR OUTFALLS BEYOND THE MINIMUM FREQUENCY STATED IN THIS PERMIT MUST BE REPORTED TO EPD AS SPECIFIED IN PART IV.E.

C. <u>SAMPLING POINTS.</u>

(1). FOR CONSTRUCTION ACTIVITIES THE PRIMARY PERMITTEE MUST SAMPLE ALL RECEIVING WATER(S), OR ALL OUTFALL(S), OR A COMBINATION OF RECEIVING WATER(S) AND OUTFALL(S). SAMPLES TAKEN FOR THE PURPOSE OF COMPLIANCE WITH THIS PERMIT SHALL BE REPRESENTATIVE OF THE MONITORED ACTIVITY AND REPRESENTATIVE OF THE WATER QUALITY OF THE RECEIVING WATER(S) AND/OR THE STORM WATER OUTFALLS USING THE FOLLOWING MINIMUM GUIDELINES:

(A). THE UPSTREAM SAMPLE FOR EACH RECEIVING WATER(S) MUST BE TAKEN IMMEDIATELY UPSTREAM OF THE CONFLUENCE OF THE FIRST STORM WATER DISCHARGE FROM THE PERMITTED ACTIVITY (I.E., THE DISCHARGE FARTHEST UPSTREAM AT THE SITE) BUT DOWNSTREAM OF ANY OTHER STORM WATER DISCHARGES NOT ASSOCIATED WITH THE PERMITTED ACTIVITY. WHERE APPROPRIATE, SEVERAL UPSTREAM SAMPLES FROM ACROSS THE RECEIVING WATER(S) MAY NEED TO BE TAKEN AND THE ARITHMETIC AVERAGE OF THE TURBIDITY OF THESE SAMPLES USED FOR

(B). THE DOWNSTREAM SAMPLE FOR EACH RECEIVING WATER(S) MUST BE TAKEN DOWNSTREAM OF THE CONFLUENCE OF THE LAST STORM WATER DISCHARGE FROM THE PERMITTED ACTIVITY (I.E., THE DISCHARGE FARTHEST DOWNSTREAM AT THE SITE) BUT UPSTREAM OF ANY OTHER STORM WATER DISCHARGE NOT ASSOCIATED WITH THE PERMITTED ACTIVITY. WHERE APPROPRIATE, SEVERAL DOWNSTREAM SAMPLES FROM ACROSS THE RECEIVING WATER(S) MAY NEED TO BE TAKEN AND THE ARITHMETIC AVERAGE OF THE TURBIDITY OF THESE SAMPLES USED FOR THE DOWNSTREAM TURBIDITY VALUE.

(C). IDEALLY THE SAMPLES SHOULD BE TAKEN FROM THE HORIZONTAL AND VERTICAL CENTER OF THE RECEIVING WATER(S) OR THE STORM WATER OUTFALL CHANNEL(S).

(D). CARE SHOULD BE TAKEN TO AVOID STIRRING THE BOTTOM SEDIMENTS IN THE RECEIVING WATER(S) OR IN TH E OUTFALL STORM WATER CHANNEL.

(E). THE SAMPLING CONTAINER SHOULD BE HELD SO THAT THE OPENING FACES UPSTREAM.

(F). THE SAMPLES SHOULD BE KEPT FREE FROM FLOATING DEBRIS.

(G). PERMITTEES DO NOT HAVE TO SAMPLE SHEET FLOW THAT FLOWS ONTO UNDISTURBED NATURAL AREAS OR AREAS STABILIZED BY THE PROJECT. FOR PURPOSES OF THIS SECTION, STABILIZED SHALL MEAN, FOR UNPAVED AREAS AND AREAS NOT COVERED BY PERMANENT STRUCTURES AND AREAS LOCATED OUTSIDE THE WASTE DISPOSAL LIMITS OF A LANDFILL CELL THAT HAS BEEN CERTIFIED BY EPD FOR WASTE DISPOSAL, 100% OF THE SOIL SURFACE IS UNIFORMLY COVERED IN PERMANENT VEGETATION WITH A DENSITY OF 70% OR GREATER, OR LANDSCAPED ACCORDING TO THE PLAN (UNIFORMLY COVERED WITH LANDSCAPING MATERIALS IN PLANNED LANDSCAPED AREAS), OR EQUIVALENT PERMANENT STABILIZATION MEASURES AS DEFINED IN THE MANUAL (EXCLUDING A CROP'S OF ANNUAL VEGETATION AND A SEEDING OF TARGET CROP PERENNIALS APPROPRIATE FOR THE REGION).

(H). ALL SAMPLING PURSUANT TO THIS PERMIT MUST BE DONE IN SUCH A WAY (INCLUDING GENERALLY ACCEPTED SAMPLING METHODS, LOCATIONS, TIMING, AND FREQUENCY) AS TO ACCURATELY REFLECT WHETHER STORM WATER RUNOFF FROM THE CONSTRUCTION SITE IS IN COMPLIANCE WITH THE STANDARD SÉT FORTH IN PARTS III.D.3. OR III.D.4.., WHICHEVER IS APPLICABLE.

D. <u>SAMPLING FREQUENCY:</u>

- (1). THE PRIMARY PERMITTEE MUST SAMPLE IN ACCORDANCE WITH THE PLAN AT LEAST ONCE FOR EACH RAINFALL EVENT DESCRIBED BELOW. FOR A QUALIFYING EVENT, THE PERMITTEE SHALL SAMPLE AT THE BEGINNING OF ANY STORM WATER DISCHARGE TO A MONITORED RECEIVING WATER AND/OR FROM A MONITORED OUTFALL LOCATION WITHIN IN FORTY-FIVE (45) MINUTES OR AS SOON AS POSSIBLE.
- (2). HOWEVER, WHERE MANUAL AND AUTOMATIC SAMPLING ARE IMPOSSIBLE (AS DEFINED IN THIS PERMIT), OR ARE BEYOND THE PERMITTEE'S CONTROL, THE PERMITTEE SHALL TAKE SAMPLES AS SOON AS POSSIBLE, BUT IN NO CASE MORE THAN TWELVE (12) HOURS AFTER THE BEGINNING OF THE STORM WATER DISCHARGE.
- (3). SAMPLING BY THE PERMITTEE SHALL OCCUR FOR THE FOLLOWING QUALIFYING EVENTS:
- (A). FOR EACH AREA OF THE SITE THAT DISCHARGES TO A RECEIVING WATER OR FROM AN OUTFALL. THE FIRST RAIN EVENT THAT REACHES OR EXCEEDS 0.5 INCH WITH A STORM WATER DISCHARGE THAT OCCURS DURING NORMAL BUSINESS HOURS AS DEFINED IN THIS PERMIT AFTER ALL CLEARING AND GRUBBING OPERATIONS HAVE BEEN COMPLETED, BUT PRIOR TO COMPLETION OF MASS GRADING OPERATIONS, IN THE DRAINAGE AREA OF THE LOCATION SELECTED AS THE SAMPLING LOCATION:
- (B). IN ADDITION TO (A) ABOVE, FOR EACH AREA OF THE SITE THAT DISCHARGES TO A RECEIVING WATER OR FROM AN OUTFALL, THE FIRST RAIN EVENT THAT REACHES OR EXCEEDS 0.5 INCH WITH A STORM WATER DISCHARGE THAT OCCURS DURING NORMAL BUSINESS HOURS AS DEFINED IN THIS PERMIT EITHER 90 DAYS AFTER THE FIRST SAMPLING EVENT OR AFTER ALL MASS GRADING OPERATIONS HAVE BEEN COMPLETED, BUT PRIOR TO SUBMITTAL OF A NOT, IN THE DRAINAGE AREA OF THE LOCATION SELECTED AS THE SAMPLING LOCATION, WHICHEVER COMES FIRST;
- (C). AT THE TIME OF SAMPLING PERFORMED PURSUANT TO (A) AND (B) ABOVE, IF BMPS IN ANY AREA OF THE SITE THAT DISCHARGES TO A RECEIVING WATER OR FROM AN OUTFALL ARE NOT PROPERLY DESIGNED, INSTALLED AND MAINTAINED, CORRECTIVE ACTION SHALL BE DEFINED AND IMPLEMENTED WITHIN TWO (2) BUSINESS DAYS, AND TURBIDITY SAMPLES SHALL BE TAKEN FROM DISCHARGES FROM THAT AREA OF THE SITE FOR EACH SUBSEQUENT RAIN EVENT THAT REACHES OR EXCEEDS 0.5 INCH DURING NORMAL BUSINESS HOURS* UNTIL THE SELECTED TURBIDITY STANDARD IS ATTAINED, OR UNTIL POST-STORM EVENT INSPECTIONS DETERMINE THAT BMPS ARE PROPERLY DESIGNED, INSTALLED AND MAINTAINED:
- (D). WHERE SAMPLING PURSUANT TO (A), (B) OR (C) ABOVE IS REQUIRED BUT NOT POSSIBLE (OR NOT REQUIRED BECAUSE THERE WAS NO DISCHARGE), THE PERMITTEE, IN ACCORDANCE WITH PART [V.D.4.A.(6), MUST INCLUDE A WRITTEN JUSTIFICATION IN THE INSPECTION REPORT OF WHY SAMPLING WAS NOT PERFORMED. PROVIDING THIS JUSTIFICATION DOES NOT RELIEVE THE PERMITTEE OF ANY SUBSEQUENT SAMPLING OBLIGATIONS UNDER (A), (B) OR (C) ABOVE; AND
- (E). EXISTING CONSTRUCTION ACTIVITIES, I.E., THOSE THAT ARE OCCURRING ON OR BEFORE THE EFFECTIVE DATE OF THIS PERMIT, THAT HAVE MET THE SAMPLING REQUIRED BY (A) ABOVE SHALL SAMPLE IN ACCORDANCE WITH (B). THOSE EXISTING CONSTRUCTION ACTIVITIES THAT HAVE MET THE SAMPLING REQUIRED BY (B) ABOVE SHALL NOT BE REQUIRED TO CONDUCT ADDITIONAL SAMPLING OTHER THAN AS REQUIRED BY (C) ABOVE.
- * NOTE THAT THE PERMITTEE MAY CHOOSE TO MEET THE REQUIREMENTS OF (A) AND (B) ABOVE BY COLLECTING TURBIDITY SAMPLES FROM ANY RAIN EVENT THAT REACHES OR EXCEEDS 0.5 INCH AND ALLOWS FOR SAMPLING AT ANY TIME OF THE DAY OR WEEK.

E. <u>REPORTING:</u>

1. THE APPLICABLE PERMITTEES ARE REQUIRED TO SUBMIT THE SAMPLING RESULTS TO THE EPD AT THE ADDRESS SHOWN IN PART II.C. BY THE FIFTEENTH DAY OF THE MONTH FOLLOWING THE REPORTING PERIOD. REPORTING PERIODS ARE MONTHS DURING WHICH SAMPLES ARE TAKEN IN COPYRIGHT (C) 2023, WALDEN, ASHWORTH & ASSOCIATES, INC., ALL RIGHTS RESERVED

ACCORDANCE WITH THIS PERMIT. SAMPLING RESULTS SHALL BE IN A CLEARLY LEGIBLE FORMAT. UPON WRITTEN NOTIFICATION, EPD MAY REQUIRE THE APPLICABLE PERMITTEE TO SUBMIT THE SAMPLING RESULTS ON A MORE FREQUENT BASIS. SAMPLING AND ANALYSIS OF ANY STORM WATER DISCHARGE(S) OR THE RECEIVING WATER(S) BEYOND THE MINIMUM FREQUENCY STATED IN THIS PERMIT MUST BE REPORTED IN A SIMILAR MANNER TO THE EPD. THE SAMPLING REPORTS MUST BE SIGNED IN ACCORDANCE WITH PART V.G.2. SAMPLING REPORTS MUST BE SUBMITTED TO EPD USING THE ELECTRONIC SUBMITTAL SERVICE PROVIDED BY EPD. SAMPLING REPORTS MUST BE SUBMITTED TO EPD UNTIL SUCH TIME AS A NOT IS SUBMITTED IN ACCORDANCE WITH PART VI.

2. ALL SAMPLING REPORTS SHALL INCLUDE THE FOLLOWING INFORMATION:

A. THE RAINFALL AMOUNT, DATE, EXACT PLACE AND TIME OF SAMPLING OR MEASUREMENTS;

B. THE NAME(S) OF THE CERTIFIED PERSONNEL WHO PERFORMED THE SAMPLING AND MEASUREMENTS;

C. THE DATE(S) ANALYSES WERE PERFORMED;

D. THE TIME(S) ANALYSES WERE INITIATED;

E. THE NAME(S) OF THE CERTIFIED PERSONNEL WHO PERFORMED THE ANALYSES; F. REFERENCES AND WRITTEN PROCEDURES, WHEN AVAILABLE, FOR THE ANALYTICAL TECHNIQUES OR METHODS USED;

G. THE RESULTS OF SUCH ANALYSES, INCLUDING THE BENCH SHEETS, INSTRUMENT READOUTS, COMPUTER DISKS OR TAPES, ETC., USED TO

H. RESULTS WHICH EXCEED 1000 NTU SHALL BE REPORTED AS "EXCEEDS 1000 NTU;" AND I. CERTIFICATION STATEMENT THAT SAMPLING WAS CONDUCTED AS PER THE PLAN.

3. ALL WRITTEN CORRESPONDENCE REQUIRED BY THIS PERMIT SHALL BE SUBMITTED BY RETURN RECEIPT CERTIFIED MAIL (OR SIMILAR SERVICE) TO THE APPROPRIATE DISTRICT OFFICE OF THE EPD ACCORDING TO THE SCHEDULE IN APPENDIX A OF THIS PERMIT. THE PERMITTEE SHALL RETAIN A COPY OF THE PROOF OF SUBMITTAL AT THE CONSTRUCTION SITE OR THE PROOF OF SUBMITTAL SHALL BE READILY AVAILABLE AT A DESIGNATED LOCATION FROM COMMENCEMENT OF CONSTRUCTION UNTIL SUCH TIME AS A **NOT** IS SUBMITTED IN ACCORDANCE WITH PART VI.

IF AN ELECTRONIC SUBMITTAL IS PROVIDED BY EPD THEN THE WRITTEN CORRESPONDENCE MAY BE SUBMITTED ELECTRONICALLY; IT REQUIRED, A PAPER COPY MUST ALSO BE SUBMITTED BY RETURN RECEIPT CERTIFIED MAIL OR SIMILAR SERVICE.

F. RETENTION OF RECORDS:

1. THE PRIMARY PERMITTEE SHALL RETAIN THE FOLLOWING RECORDS AT THE CONSTRUCTION SITE OR THE RECORDS SHALL BE READILY AVAILABLE AT A DESIGNATED ALTERNATE LOCATION FROM COMMENCEMENT OF CONSTRUCTION UNTIL SUCH TIME AS A NOT IS SUBMITTED IN ACCORDANCE WITH PART VI:

A. A COPY OF ALL NOTICES OF INTENT SUBMITTED TO EPD;

B. A COPY OF THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN REQUIRED BY THIS PERMIT;

C. THE DESIGN PROFESSIONALS REPORT OF THE RESULTS OF THE INSPECTION CONDUCTED IN ACCORDANCE WITH PART LV.A.5. OF THIS PERMIT; D. A COPY OF ALL SAMPLING INFORMATION, RESULTS, AND REPORTS REQUIRED BY THIS PERMIT;

E. A COPY OF ALL INSPECTION REPORTS GENERATED IN ACCORDANCE WITH PART LV.D.4.A. OF THIS PERMIT;

F. A COPY OF ALL VIOLATION SUMMARIES AND VIOLATION SUMMARY REPORTS GENERATED IN ACCORDANCE WITH PART LLI.D.2. OF THIS PERMIT;

G. DAILY RAINFALL INFORMATION COLLECTED IN ACCORDANCE WITH PART [V.D.4.A.(2). OF THIS PERMIT.

2. COPIES OF ALL NOTICES OF INTENT, NOTICES OF TERMINATION, INSPECTION REPORTS, SAMPLING REPORTS (INCLUDING ALL CALIBRATION AND MAINTENANCE RECORDS AND ALL ORIGINAL STRIP CHART RECORDINGS FOR CONTINUOUS MONITORING INSTRUMENTATION) OR OTHER REPORTS REQUESTED BY THE EPD, EROSION, SEDIMENTATION AND POLLUTION CONTROL PLANS, RECORDS OF ALL DATA USED TO COMPLETE THE NOTICE OF INTENT TO BE COVERED BY THIS PERMIT AND ALL OTHER RECORDS REQUIRED BY THIS PERMIT SHALL BE RETAINED BY THE PERMITTEE WHO EITHER PRODUCED OR USED IT FOR A PERIOD OF AT LEAST THREE YEARS FROM THE DATE THAT THE NOT IS SUBMITTED IN ACCORDANCE WITH PART VI. OF THIS PERMIT. THESE RECORDS MUST BE MAINTAINED AT THE PERMITTEE S PRIMARY PLACE OF BUSINESS OR AT A DESIGNATED ALTERNATIVE LOCATION ONCE THE CONSTRUCTION ACTIVITY HAS CEASED AT THE PERMITTED SITE. THIS PERIOD MAY BE EXTENDED BY REQUEST OF THE EPD AT ANY TIME UPON WRITTEN NOTIFICATION TO THE PERMITTEE.

THE ALLOWABLE TURBIDITY AT THE OUTFALL SAMPLING POINT FOR THIS PROJECT IS **25 NTU**, SEE APPENDIX B, THIS DWG FOR INFORMATION.

THE ALLOWABLE INCREASE IN TURBIDITY BETWEEN THE DOWNSTREAM AND UPSTREAM SAMPLING POINTS IN THE RECEIVING WATERS, WHICH ARE CLASSIFIED AS WARM WATER IS 25 NTU.

I certify that the permittee's Erosion, Sedimentation and Pollution Control Plan provides for the monitoring of: (a) all perennial and intermittent streams and other water bodies shown on the USGS topographic map and all other fieldverified perennial and intermittent steams and other water bodies, or (b) where any such specific identified perennial or intermittent stream and other water body is not proposed to be sampled, I have determined in my professional judgment, utilizing the factors required in the General NPDES Permit No. GAR100002, that the increase in the turbidity of each specific identified sampled receiving water will be representative of the increase in the turbidity of a specific identified un—sampled receiving water.

CERTIFICATION NO.: 3031 EXPIRATION DATE: 12/07/26

WALDEN, ASHWORTH & ASSOCIATES, INC.

SIGNATURE: Jason Rapplean

JASON RAPPLEAN, P.E., VICE PRESIDENT

The South Fork Peachtree Creek TMDL GAR 031300011207 for Headwaters to Peachtree Creek segment of Chattahoochee River Basin of Atlanta, Dekalb County and Fulton County, Georgia. This segment is 15 miles ion length and is primarily used for fishing. A TMDL was completed in 12003 for FC and was revised in 2008. In 2018 another TMDL was created for BIO F and Bio M with a Status of 4a. Dekalb County and Fulton County have a Stream Monitoring Program that maintain moniotoring sites along the segment for

IMPARED STREAM STATEMENT (CHECKLIST #22 & 23)

The Two Counties have programs in place for investigating potential sources of pollution. These programs are described below:

assessing water quality every quarter, including fecal coliform.

'. General urban runoff is fecal tested by the Counties Water System's Stream monitoring program and sampling is done for all pertinent biological and chemical data including fecal coliform for all streams at sites per quarter and by NPDES Fecal Coliform Monitoring Program at 8 sites per quarter. The Counties Board's of Health regulates septic tanks and maintains a nuisance ordinance against unwarranted waste. The National Resources Conservation Service maintains incentives for the restoration of fencing to protect stream buffers, thereby enhancing urban runofi

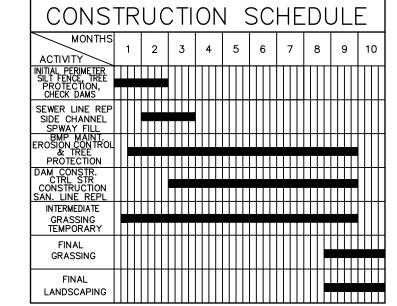
2. Monitoring for sanitary sewer leaks is by the aforementioned by the Counties Water's Stream Monitoring Program, Water Engineering's Inflow and Infiltration department's stre sewer stream crossings and manholes, and through the aforementioned Fecal Coliform Monitoring Program. Water Protection group also maintains a restaurant grease trap program, prohibiting all county restaurants from discharging grease to septic tanks, and requiring all county restaurants to pump their traps quarterly so as to keep sewer line grease at a minimal and less of a factor in blocking lines and causing sanitary sewer overflows. Each County's Water's Engineering Dept also maintains a manhole raising program in low lying areas in order to place sewer caps above the latest FEMA flood plain levels, curtailing overflow contamination. Water's System maintenance also maintains a foam root control program for sewer lines.

Monitoring for illicit connections and illegal dumping is through the efforts of Stream Monitoring Program, Water Quality Section, and the NPDES Fecal Coliform monitoring, and County. Each County has an Illicit Discharge ordinance prohibits illicit/illegal discharges to the storm drainage system with monitoring by all sections of the water system.

4. Animal waste from farm animals, birds, and pets is regulated through restrictive stream buffers enforced by each county's Community Development and by Board of Health's nuisance ordinance, as well as addressed through the USDA's NRCS's incentives for maintaining fences and buffers. The USDA also sponsors a program in cooperation with Stormwater to remove beavers from areas where their dams raise water levels to sanitary sewer cap manholes. Monitoring is accomplished under general fecal monitoring through the aforementioned stream monitoring and NPDES fecal monitoring programs.

5. Land disturbing activities contribution is addressed through Each COuunty's Community Development's Erosion and Sediment Control restrictions, regulatory BMPs and buffer ordinance as well as the NRCS buffer incentives.

PRIMARY PERMITTEE



Know what's below.

Call before you dig.

CITY OF TUCKER PAKS AND RECREATION DEPT. 4898 LAVISTA RD, TUCKER, GA 30084 CONTACT: RIP ROBERTSON, DIRECTOR PHONE: (470) 481-0205 EMAIL: rrobertson@tuckerga.gov

24 HR. CONTACT PERSON

RIP ROBERTSON (470) 481-0205

ND.	REVISIONS	MADE	CKD.	DATE	DRAWING NO.	REFERENCE DRAWINGS



SCALE: AS	SHD	WN	DATE
DESIGN BY	JR/	'JH	01/23
DRAWN BY:	JH/	ΈC	01/23
CHECKED BY:	JR		01/23
C□A: PEF 0007	07	EXP: 06/	30/2024

JASON RAPPLEAN, PE, EOR

EXPIRATION DATE:

LEVEL 2 CERTIFICATION # 3031

12/07/26

JOHNS HOMESTEAD PARK **EROSION CONTROL MONITORING NOTES**

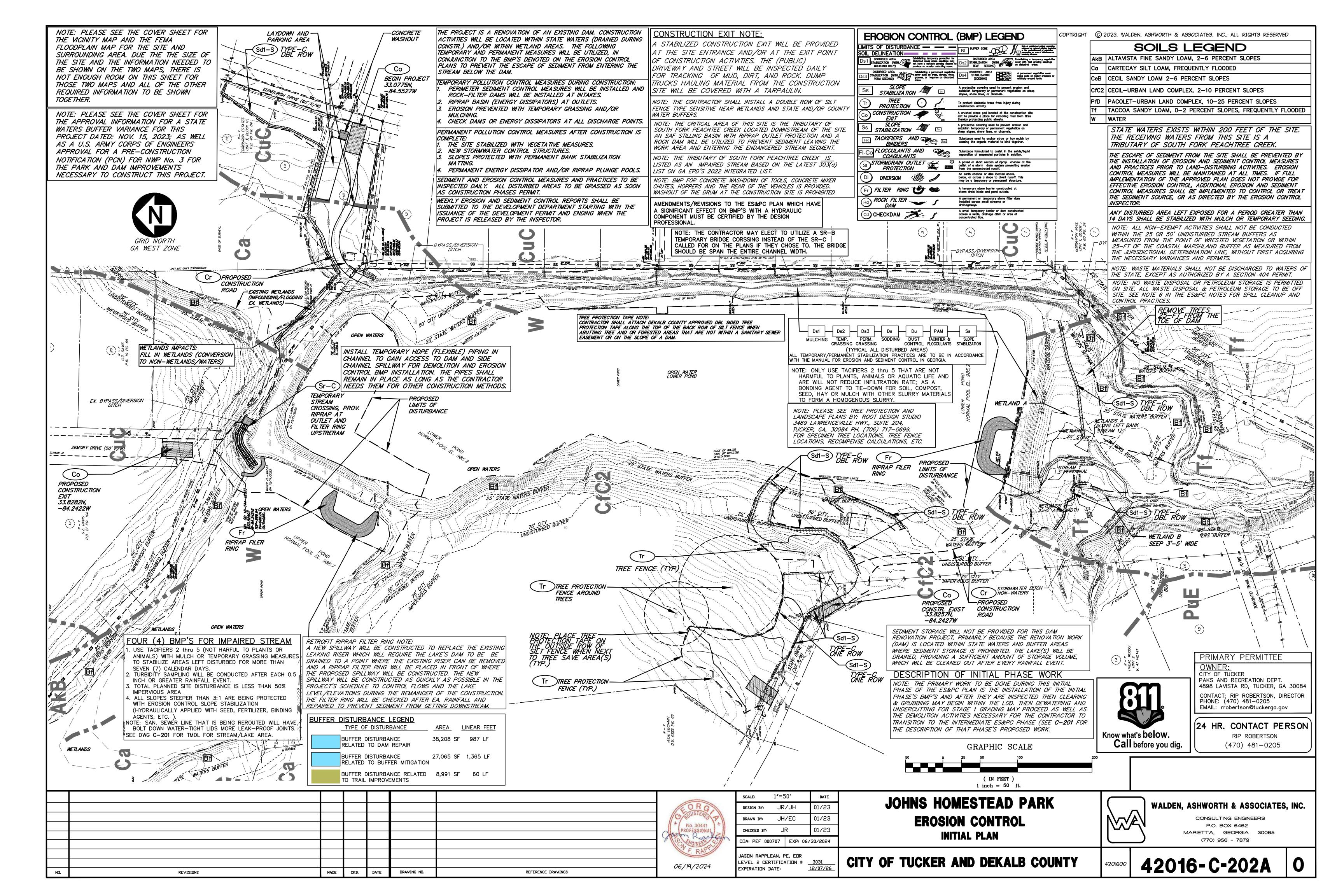
CITY OF TUCKER AND DEKALB COUNTY



WALDEN, ASHWORTH & ASSOCIATES, INC.

CONSULTING ENGINEERS P.O. BOX 6462 MARIETTA, GEORGIA 30065 (770) 956 - 7879

42016-C-201



DESCRIPTION OF FINAL PHASE WORK

NOTE: THE PRIMARY WORK TO BE DONE DURING THIS FINAL PHASE OF THE ES&PC PLAN IS TO VERIFY THAT THE SITE IS AT FINAL GRADE, EITHER OVER THE ENTIRE SITE OR WITHIN AREAS TO BE PERMANENTLY STABILIZED. AREAS AND/OR THE SITE THAT IS STABILIZED MY HAVE THEIR TEMP. STRUCTURAL BMP'S REMOVED AND THEIR PERMANENT VEGETATIVE GRASSING PLACED AS DENOTED ON THE TABLES AND NOTES ON C-200. ALL AREAS TO HAVE SLOPE STABILIZATION SHALL BE CHECKED AND IF THEY HAVE NOT STARTED VEGETATING, THEN THEY SHALL BE HYDRAULICALLY APPLIED. TREE FENCING SHALL BE REMOVED IF HEAVY EQUIPMENT IS NO LONGER A THREAT TO THE TREES. THE CONCRETE WASHOUT MAY BE REMOVED IF CONCRETE IS NO LONGER BEING POURED. AN NOT MAY BE FILED WHEN THE SITE IS FULLY STABILIZED IN ACCORDANCE WITH THE NPDES PERMIT REQUIREMENTS.

FINAL PHASE NOTES:

THE CONTRACTOR SHALL MAINTAIN THE SEDIMENT POND IF APPLICABLE UNTIL PERMANENT GROUNDCOVER IS ESTABLISHED. SEDIMENT SHALL BE CLEANED OUT OF THE POND WHEN IT REACHES ONE THIRD OF THE DEPTH OF THE BASIN.

ALL ROADWAY AND PARKING SHOULDERS SHOULD BE GRASSED AS SOON AS FINAL GRADE IS ACHIEVED.

SEDIMENT AND EROSION CONTROL MEASURES MUST BE CHECKED AFTER EACH RAIN EVENT. EACH DEVICE IS TO BE MAINTAINED OR REPLACED IF SEDIMENT ACCUMULATION HAS REACHED HALF THE CAPACITY OF THE DEVICE. ADDITIONAL DEVICES MUST BE INSTALLED IF NEW CHANNELS HAVE DEVELOPED.

CONSTRUCTION BEING STOPPED ON THE SITE UNTIL SUCH MEASURES ARE CORRECTED BACK TO THE APPROVED PLANS.

LIBON COMPLETION OF THE PROJECT AND RECEIPT OF THE CERTIFICATE OF COMPLETION THE CONTRACTOR

FAILURE TO INSTALL, OPERATE OR MAINTAIN ALL EROSION CONTROL MEASURES WILL RESULT IN ALL

UPON COMPLETION OF THE PROJECT AND RECEIPT OF THE CERTIFICATE OF COMPLETION, THE CONTRACTOR SHALL REMOVE ALL TEMPORARY EROSION CONTROL MEASURES AND DISPOSE OF THEM UNLESS NOTED OTHERWISE ON PLANS.

FOR ADDITIONAL EROSION CONTROL NOTES FOR EACH ES&PC PHASE, SEE EROSION CONTROL NOTES DRAWINGS.

GRADING PHASE NOTES:

DURING CONSTRUCTION, THE CONTRACTOR SHALL MAINTAIN CAREFUL SCHEDULING AND PERFORMANCE TO ENSURE THAT LAND STRIPPED OF ITS NATURAL GROUND COVER IS EXPOSED ONLY IN SMALL QUANTITIES, AND THEREFORE, LIMITED DURATIONS BEFORE PERMANENT EROSION PROTECTION IS ESTABLISHED.

EARTHWORK OPERATIONS IN THE VICINITY OF STREAM BUFFERS SHALL BE CAREFULLY CONTROLLED TO AVOID DUMPING OR SLOUGHING INTO THE BUFFER AREAS.

EROSION CONTROL DEVICES SHALL BE INSTALLED IMMEDIATELY AFTER GROUND DISTURBANCE OCCURS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ACCOMPLISH EROSION CONTROL FOR ALL DRAINAGE PATTERNS CREATED AT VARIOUS STAGES DURING CONSTRUCTION, AND ALTER THE LOCATION OF EROSION CONTROL DEVICES ACCORDINGLY. ANY DIFFICULTY IN CONTROLLING EROSION DURING ANY PHASE OF CONSTRUCTION SHALL BE REPORTED TO THE DESIGN PROFESSIONAL IMMEDIATELY.

THE CONTRACTOR SHALL ESTABLISH BARRIERS AT THE TOP OF ALL SLOPES UNDER CONSTRUCTION. CUT AND FILL SLOPES SHALL NOT EXCEED 3:1 UNLESS SPECIFICALLY DENOTED ON THE PLANS.

STORM DRAIN OUTLET PROTECTION SHALL BE PLACED AT ALL OUTLET HEADWALLS AS SOON AS THE HEADWALL IS CONSTRUCTED.

ALL DRAINAGE SWALES AND GRADED AREAS SHALL BE APPLIED WITH VEGETATIVE COVER AS SOON AS FINAL GRADE IS ACHIEVED. MULCH OR TEMPORARY GRASSING SHALL BE APPLIED TO ALL EXPOSED AREAS WITHIN 7 DAYS OF LAND DISTURBANCE. ALL DISTURBED AREAS LEFT MULCHED FOR MORE THAN 30 DAYS SHALL BE STABILIZED WITH TEMPORARY GRASSING.

THE CONTRACTOR SHALL MAINTAIN THE SEDIMENT POND IF APPLICABLE UNTIL PERMANENT GROUNDCOVER IS ESTABLISHED. SEDIMENT SHALL BE CLEAN OUT OF THE POND WHEN IT REACHES ONE THIRD OF THE DEPTH OF THE BASIN.

MULCH OR TEMPORARY GRASSING SHALL BE APPLIED TO ALL EXPOSED AREAS WITHIN 7 DAYS OF LAND DISTURBANCE. ALL DISTURBED AREAS LEFT MULCHED FOR MORE THAN 30 DAYS SHALL BE STABILIZED WITH TEMPORARY GRASSING.

SEDIMENT AND EROSION CONTROL MEASURES MUST BE CHECKED AFTER EACH RAIN EVENT. EACH DEVICE IS TO BE MAINTAINED OR REPLACED IF SEDIMENT ACCUMULATION HAS REACHED HALF THE CAPACITY OF THE DEVICE. ADDITIONAL DEVICES MUST BE INSTALLED IF NEW CHANNELS HAVE DEVELOPED.

CONTRACTOR SHALL INSPECT CONTROL MEASURES AT THE END OF EACH WORKING DAY TO ENSURE MEASURES

THE CONSTRUCTION EXIT SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACK OR FLOW OF MUD ONTO PUBLIC RIGHT-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH 1"-3" OF STONE, AS CONDITIONS DEMAND. ALL MATERIALS SPILLED, DROPPED WASHED OR TRACKED FROM A VEHICLE ONTO PUBLIC ROADWAY OR INTO STORM DRAIN MUST BE REMOVED IMMEDIATELY.

FAILURE TO INSTALL, OPERATE OR MAINTAIN ALL EROSION CONTROL MEASURES WILL RESULT IN ALL CONSTRUCTION BEING STOPPED ON THE JOB UNTIL SUCH MEASURES ARE CORRECTED BACK TO THE APPROVED EROSION CONTROL PLANS.

FOR ADDITIONAL EROSION CONTROL NOTES FOR EACH ES&PC PHASE, SEE EROSION CONTROL NOTES DRAWINGS.

COPYRIGHT (C) 2023, WALDEN, ASHWORTH & ASSOCIATES, INC., ALL RIGHTS RESERVED

CLEARING PHASE NOTES:

TEMPORARY VEGETATION.

PRIOR TO LAND DISTURBING ACTIVITY, THE CONTRACTOR SHALL SCHEDULE A PRECONSTRUCTION MEETING WITH THE AREA SITE DEVELOPMENT INSPECTOR(S), THE ENGINEER(S), AND THE CITY, COUNTY AND STATE OFFICIALS...

THE CONTRACTOR SHALL OBSERVE THE PROJECT SEQUENCE SHOWN ON THE PLANS. THE CONTRACTOR SHALL MAINTAIN CAREFUL SCHEDULING AND PERFORMANCE TO ENSURE THAT LAND STRIPPED OF ITS NATURAL COVER IS EXPOSED ONLY IN SMALL QUANTITIES.

THE OWNER AGREES TO PROVIDE AND MAINTAIN OFF-STREET PARKING ON THE SUBJECT PROPERTY DURING THE ENTIRE CONSTRUCTION PERIOD.

NO STAGING AREAS, MATERIAL STORAGE, CONCRETE WASH OUT AREAS, OR DEBRIS BURNING AND BURIAL HOLES SHALL BE LOCATED WITHIN 500 FEET OF DESIGNATED TREE PROTECTION AREAS,

A COPY OF THE APPROVED LAND DISTURBANCE PLAN AND PERMIT SHALL BE PRESENT ON THE SITE AT ALL

PRIOR TO COMMENCING LAND DISTURBANCE ACTIVITY, LIMITS OF LAND DISTURBANCE SHALL CLEARLY AND ACCURATELY BE DEMARCATED WITH STAKES, RIBBONS OR OTHER APPROPRIATE MEANS, AND SHALL BE DEMARCATED FOR THE DURATION OF THE CONSTRUCTION ACTIVITY. NO LAND DISTURBANCE SHALL OCCUR OUTSIDE THE LIMITS INDICATED ON THE APPROVED PLANS.

PRIOR TO ANY OTHER CONSTRUCTION, A STABILIZED CONSTRUCTION ENTRANCE SHALL BE CONSTRUCTED AT EACH POINT OF ENTRY TO OR EXIT FROM THE SITE OR ONTO ANY PUBLIC ROADWAY.

THE FOLLOWING INITIAL EROSION CONTROL MEASURES SHALL BE IMPLEMENTED PRIOR TO ANY OTHER CONSTRUCTION ACTIVITY:

- 1. THE CONSTRUCTION EXIT(S) SHALL BE PLACED AS SHOWN ON THE PLANS.
- 2. IMMEDIATELY AFTER THE ESTABLISHMENT OF CONSTRUCTION EXIT(S), ALL PERIMETER EROSION CONTROL AND STORMWATER MANAGEMENT DEVICES SHALL BE INSTALLED AS SHOWN ON THE CLEARING PHASE EROSION CONTROL PLAN.
- 3. TREE PROTECTION FENCING SHALL BE INSTALLED PRIOR TO THE START OF ANY LAND DISTURBING ACTIVITY (SEE PLAN(S) BY ROOT DESIGN GROUP.

WITHIN SEVEN (7) DAYS AFTER INSTALLATION OF INITIAL EROSION CONTROL MEASURES, THE SITE CONTRACTOR SHALL SCHEDULE AN INSPECTION BY THE PROJECT DESIGN PROFESSIONAL. NO OTHER CONSTRUCTION ACTIVITIES SHALL OCCUR UNTIL THE PROJECT PROFESSIONAL APPROVES THE INSTALLATION OF SAID EROSION CONTROL MEASURES. IF UNFORESEEN CONDITIONS EXIST IN THE FIELD THAT WARRANT ADDITIONAL EROSION CONTROL MEASURES, THE CONTRACTOR MUST CONSTRUCT ANY ADDITIONAL EROSION CONTROL DEVICES DEEMED NECESSARY BY THE PROJECT PROFESSIONAL DURING THE SITE INSPECTION.

AFTER APPROVAL OF INITIAL EROSION CONTROL INSTALLATION, THE CONTRACTOR MAY PROCEED WITH CLEARING AND GRUBBING ACTIVITIES. AS CLEARING PERMITS, THE CONTRACTOR SHALL CONSTRUCT SEDIMENT PONDS AS SHOWN ON PLANS.

THE CONTRACTOR CAN UTILIZE CLEARED TREES AS BARRIER BRUSH SEDIMENT CONTROL WHERE INITIAL GRADING ACTIVITIES WILL NOT OCCUR.

NO BURN OR BURY PITS SHALL BE PERMITTED ON THE CONSTRUCTION SITE WITHOUT WRITTEN PERMISSION BY THE OWNER AND/OR THE ENGINEER OF RECORD.

ALL SILT FENCES MUST MEET THE REQUIREMENTS OF SECTION 171—TEMPORARY SILT FENCE FOR THE DEPARTMENT OF TRANSPORTATION, STATE OF GEORGIA, STANDARD SPECIFICATIONS, 1983 EDITION.

MULCH OR TEMPORARY GRASSING SHALL BE APPLIED TO ALL EXPOSED AREAS WITHIN 7 DAYS OF LAND DISTURBANCE. ALL DISTURBED AREAS LEFT MULCHED MORE THAN 30 DAYS SHALL BE STABILIZED WITH

SEDIMENT AND EROSION CONTROL MEASURES MUST BE CHECKED AFTER EACH RAIN EVENT. EACH DEVICE IS TO BE MAINTAINED OR REPLACED IF SEDIMENT ACCUMULATION HAS REACHED HALF THE CAPACITY OF THE DEVICE. ADDITIONAL DEVICES MUST BE INSTALLED IF NEW CHANNELS HAVE DEVELOPED.

THE CONSTRUCTION EXIT(S) SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACK OR FLOW OF MUD ONTO PUBLIC RIGHT-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH 1"-3" OF STONE, AS CONDITIONS DEMAND. ALL MATERIALS SPILLED, DROPPED, WASHED OR TRACKED FROM A VEHICLE ONTO PUBLIC ROADWAY OR INTO STORM DRAIN MUST BE REMOVED IMMEDIATELY.

CONTRACTOR SHALL INSPECT EROSION CONTROL MEASURES AT THE END OF EACH WORKING DAY TO ENSURE PROPER FUNCTIONING. FAILURE TO INSTALL, OPERATE OR MAINTAIN ALL EROSION CONTROL MEASURES WILL RESULT IN ALL CONSTRUCTION BEING STOPPED ON THE SITE UNTIL SUCH MEASURES ARE CORRECTED BACK TO

FOR ADDITIONAL EROSION CONTROL NOTES FOR EACH ES&PC PHASE, SEE CONTROL NOTES DRAWINGS



PRIMARY PERMITTEE

OWNER:
CITY OF TUCKER
PAKS AND RECREATION DEPT.
4898 LAVISTA RD, TUCKER, GA 30084

EMAIL: rrobertson@tuckerga.gov

PHONE: (470) 481-0205

24 HR. CONTACT PERSON

RIP ROBERTSON (470) 481-0205

ND. REVISIONS MADE CKD. DATE DRAVING ND. REFERENCE DRAVINGS



SCALE		DATE
DESIGN BY: JR	/JH	01/23
DRAWN BY: JH	01/23	
CHECKED BY: J	01/23	
C□A: PEF 000707	30/2024	

JASON RAPPLEAN, PE, EOR
LEVEL 2 CERTIFICATION # 3031
12/07/26

CITY OF TUCKER AND DEKALB COUNTY

JOHNS HOMESTEAD PARK
EROSION CONTROL
INITIAL, INTERMEDIATE AND FINAL NOTES PLAN

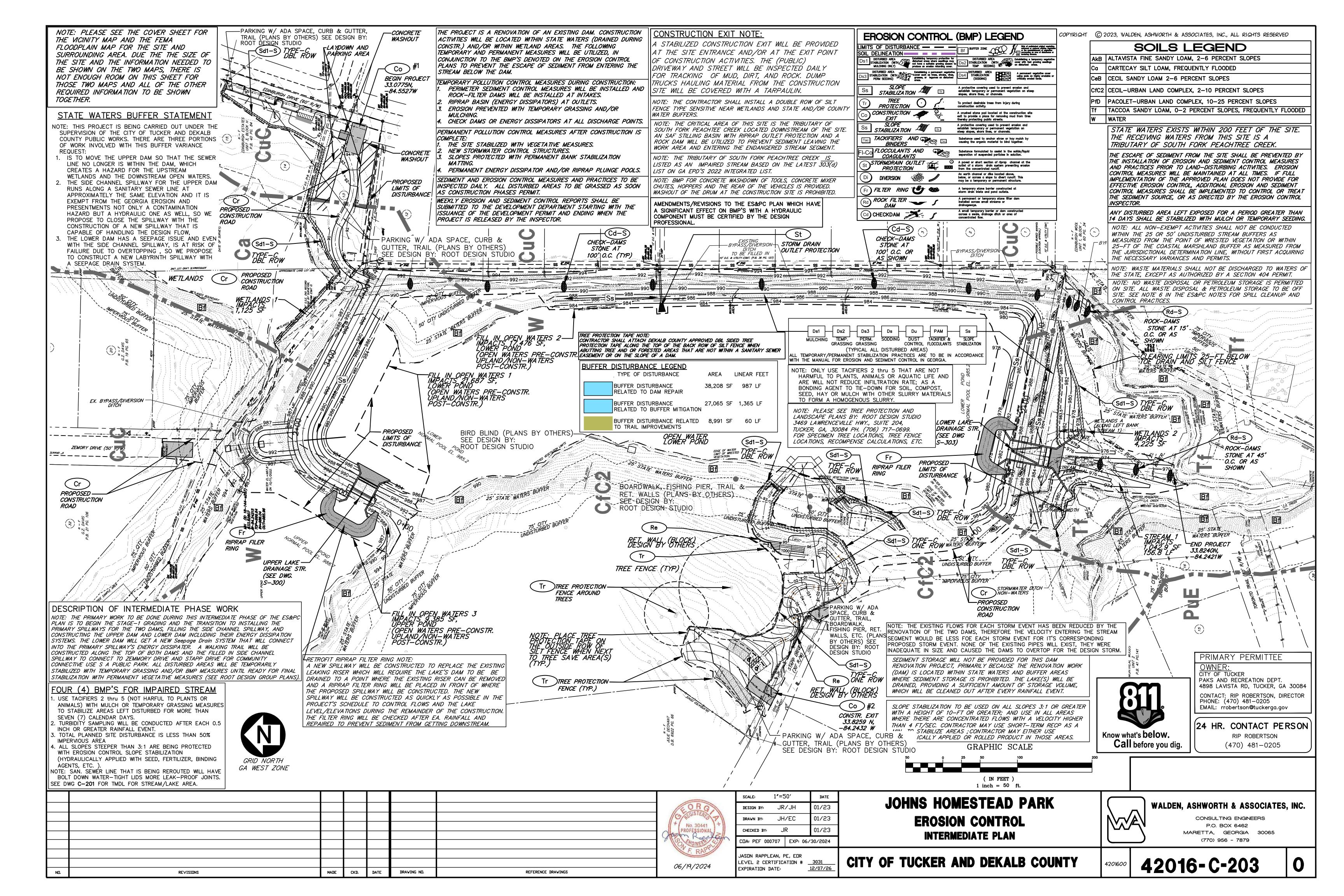


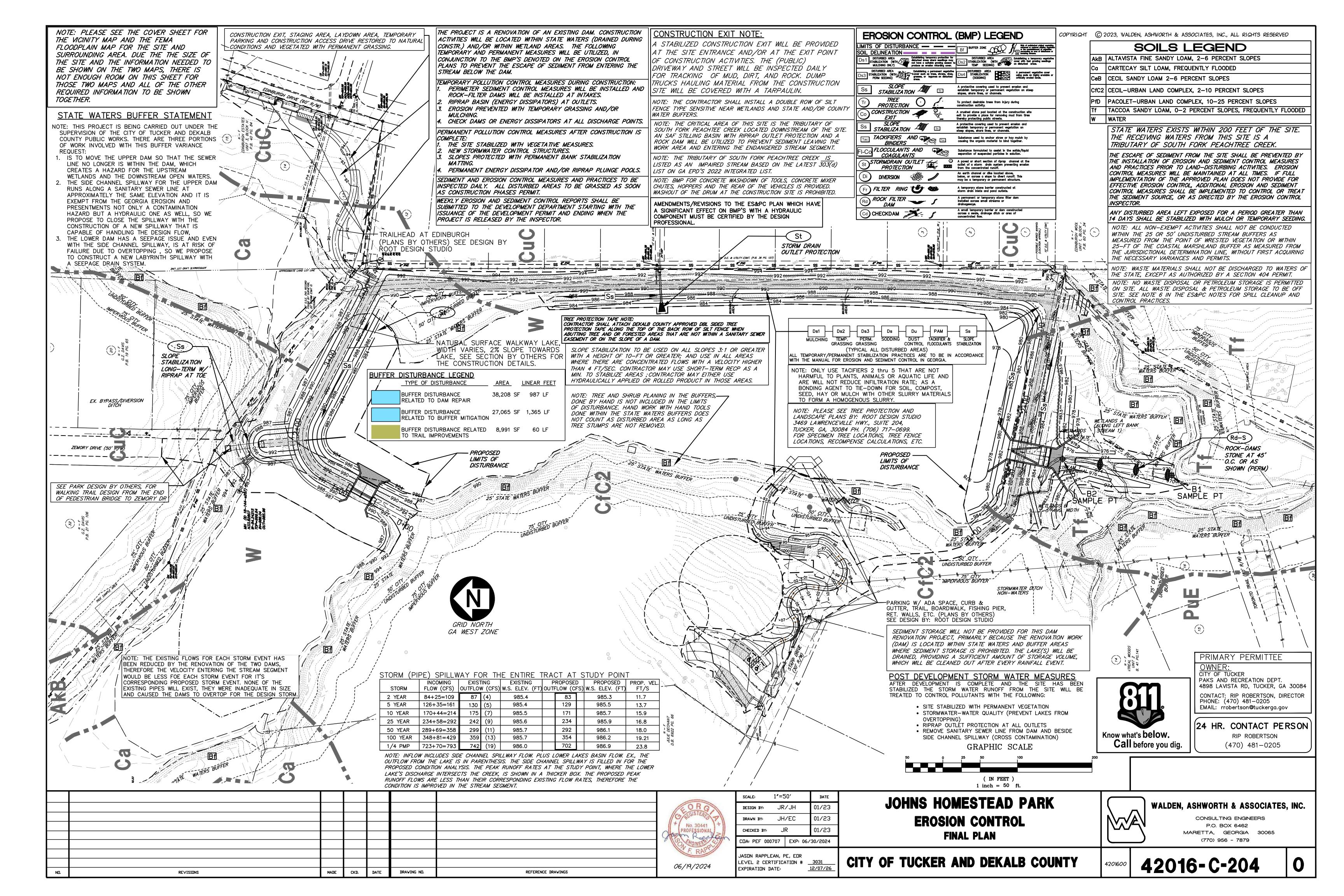
WALDEN, ASHWORTH & ASSOCIATES, INC

CONSULTING ENGINEERS
P.O. BOX 6462
MARIETTA, GEORGIA 30065
(770) 956 - 7879

40 0 00

42016-C-202B





of FI-Co shall be used.

FLOCCULANTS COAGULANTS

Planning Considerations Since settling of flocculated soil

where water leaves the property or enters state waters. In all

cases where chemical additives are used to reduce turbidity,

manufac}turer's guidelines for application. Only anionic forms

construction storm water ditches or drain}ageways that feed

•FI-Co Bags or Socs that are installed directly in a ditch, pipe

compost logs inoculated or used in conjunction with Fl-Co).

•Erosion control blankets and turf reinforce-ment mats that

•"Pump and Treat" systems that use mechani-cal mixing with

it is essential to include a sediment basin or sediment trap

unless using a "pump and treat" treatment system.

Following are examples of FI-Co applications within

•FI-Co treated ditch checks (i.e. fiber rolls, wattles, or

Granulated FI-Co treated rock ditch checks.

•Ditch checks with attached FI-Co Bags or Socs.

•Addition of granular Fl-Co directly into a ditch.

CRITERIA Application rates shall conform to

into sediment basins or other BMPs:

have been inoculated with a FI-Co.

a chemical treatment of a Fl-Co.

particles requires very slow moving (still) water, chemical

additives should never be introduced into an outfall BMP

|FI-Co

1. TILLAGE AT A MINIMUM, SHALL ADEQUATELY LOOSEN THE

COMPACTION; INCORPORATE LIME AND FERTILIZER; SMOOTH

AND FIRM THE SOIL; ALLOW FOR THE PROPER PLACEMENT

ANCHORING OF STRAW OR HAY MULCH IF A DISK IS TO BE

2. TILLAGE MAY BE DONE WITH ANY SUITABLE EQUIPMENT.

3. TILLAGE SHOULD BE DONE ON THE CONTOUR WHERE

4. ON SLOPES TOO STEEP FOR THE SAFE OPERATION OF

OR TRENCHED ACROSS THE SLOPE WITH APPROPRIATE

HAND TOOLS TO PROVIDE TWO PLACES 6 TO 8 INCHES

1. WHERE INDIVIDUAL PLANTS ARE TO BE SET, THE SOIL

2. FOR NURSERY STOCK PLANTS, HOLES SHALL BE LARGE

SHALL BE PREPARED BY EXCAVATING HOLES, OPENING

ENOUGH TO ACCOMMODATE ROOTS WITHOUT CROWDING.

3. WHERE PINE SEEDLINGS ARE TO BE PLANTED, SUBSOIL

UNDER THE ROW 36 INCHES DEEP ON THE CONTOUR FOUR

TO SIX MONTHS PRIOR TO PLANTING. SUBSOILING SHOULD

BE DONE WHEN THE SOIL IS DRY, PREFERABLY IN AUGUST

PIEDMONT

4/15-8/31

4/1-8/31

COASTAL

4/1-8/31

3/1-7/31

9/15-1/31

8/15-12/15 | 9/1-12/31

9/1-11/30 9/1-11/30

8/15-12/31 9/1-2/28

8/1-4/15 | 8/15-3/31

9/1-12/31 9/15-1/31

REMARKS

14,000 SEED PER POUND (P.L.S.)

137,000 SEED PER POUND (P.L.S.)

DENSE COVER. WILL PROVIDE TO

MUCH COMPETITION IN MIXTURES

DENSE COVER. MAY REACH 5 FEET IN HEIGHT. NOT RECOMMENDED

13,000 SEED PER POUND (P.L.S.) USE ON PRODUCTIVE SOILS. NOT AS WINTER HARDY AS RYE OR BARLEY

18,000 SEED PER POUND. QUICK COVER. DROUGHT TOLERANT AND

227,000 SEED PER POUND (P.L.S.) DENSE COVER. VERY COMPETITIVE AN

IS NOT TO BE USED IN MIXTURES.

55,000 SEED PER POUND (P.L.S.) GOOD ON DROUGHTY SITES. NOT

USE ON LOWER PART OF SOUTHERN

COASTAL PLAIN AND IN ATLANTIC

15,000 SEED PER POUND (P.L.S.)

DISTURBED AREA STABILIZATION

(WITH TEMPORARY VEGETATION)

RECOMMENDED FOR MIXTURES.

COASTAL FLATWOODS ONLY.

WINTERHARDY. USE ON

PRODUCTIVE SOILS.

FOR MIXTURES.

WINTERHARDY.

APART IN WHICH SEED MAY LODGE AND GERMINATE.

HYDRAULIC SEEDING MAY ALSO BE USED.

FURROWS, OR DIBBLE PLANTING.

TILLAGE EQUIPMENT, THE SOIL SURFACE SHALL BE PITTED

SOIL TO A DEPTH OF 4 TO 6 INCHES: ALLEVIATE

OF SEED, SPRIGS, OR PLANTS; AND ALLOW FOR THE

M-L REPRESENTS THE MOUNTAIN; BLUE RIDGE; AND RIDGES AND VALLEYS MLRAS

P REPRESENTS THE SOUTHERN PIEDMONT MLRA C REPRESENTS SOUTHERN COASTAL PLAIN; SAND HILLS; BLACK LANDS; AND ATLANTIC COAST FLATWOODS MLRAS

PLANTINGS

FEASIBLE.

INDIVIDUAL PLANTS

MTS.-L-STONE

5/1-7/31

9/1-11/30

8/1-4/30

4/1-8/31

ACRES

0.6 LB |1/2 BU(24 LBS)

2.9 LB 4 BU (128 LBS) 0.7 LB 1 BU (32 LBS)

0.6 LB |1/2 BU (28 LBS)|

3.3 LB 3 BU (144 LBS) 0.6 LB 1/2 BU (24 LBS)

0.7 LB 1/2 BU (30 LBS)

0.9 LB

1.4 LB

0.3 LBS | 3 BU(144 LBS)| 8/15-11/15

50 LBS

3.9 LB 3 BU (168 LBS) 7/15-11/30

60 LBS

4.1 LB 3 BU (180 LBS) 9/1-12/31

GRASSING TABLE

THE PLANTING OF PERENNIAL VEGETATION SUCH AS TREES. SHRUBS. VINES. GRASSES. OR LEGUMES ON EXPOSED AREAS FOR FINAL PERMANENT STABILIZATION. PERMANENT PERENNIAL VEGETATION SHALL BE USED TO ACHIEVE FINAL STABILIZATION.

<u>CONDITIONS</u>

PERMANENT PERENNIAL VEGETATION IS USED TO PROVIDE A PROTECTIVE COVER FOR EXPOSED AREAS INCLUDING CUTS, FILLS, DAMS, AND OTHER DENUDED AREAS.

GRADING AND SHAPING MAY NOT BE REQUIRED WHERE HYDRAULIC SEEDING AND FERTILIZING EQUIPMENT IS TO BE USED. VERTICAL BANKS SHALL BE SLOPED TO ENABLE PLANT ESTABLISHMENT.

WHEN CONVENTIONAL SEEDING AND FERTILIZING ARE TO BE DONE, GRADE AND SHAPE WHERE FEASIBLE AND PRACTICAL, SO THAT EQUIPMENT CAN BE USED SAFELY AND EFFICIENTLY DURING SEEDBED PREPARATION, SEEDING, MULCHING AND MAINTENANCE OF THE VEGETATION.

CONCENTRATIONS OF WATER THAT WILL CAUSE EXCESSIVE SOIL EROSION SHALL BE DIVERTED TO A SAFE OUTLET. DIVERSIONS AND OTHER TREATMENT PRACTICES SHALL CONFORM WITH THE APPROPRIATE STANDARDS AND SPECIFICATIONS.

<u>SEEDBED PREPARATION</u>

BARLEY (HORDEUM VULGARE)

MILLET. BROWNTOP (PANICUM FASCICULATUM)

MILLET, PEARL (PENNESETUM GLAUCUM)

YEGRASS, ANNUAL (LOLIUM TEMULENTUM)

SUDANGRASS (SORGHUM SUDANESE)

TRITICALE (X-TRITICOSECALE)

WHEAT (TRITICUM AESTIVUM)

IN MIXTURES

IN MIXTURES

OATS (AVENA SATIVA)

RYE (SECALE CEREALE)

IN MIXTURES

IN MIXTURES

IN MIXTURES

IN MIXTURES

SPECIES

SEEDBED PREPARATION MAY NOT BE REQUIRED WHERE HYDRAULIC SEEDING AND FERTILIZING EQUIPMENT IS TO BE USED. WHEN CONVENTIONAL SEEDING IS TO BE USED,

SEEDBED PREPARATION WILL BE DONE AS FOLLOWS:

<u>PLANTING</u>

HYDRAULIC SEEDING

MIX THE SEED (INOCULATED IF NEEDED), FERTILIZER, AND WOOD CELLULOSE OR WOOD PULP FIBER MULCH WITH WATER AND APPLY IN A SLURRY UNIFORMLY OVER THE AREA TO BE TREATED. APPLY WITHIN ONE HOUR AFTER THE MIXTURE IS MADE.

CONVENTIONAL SEEDING

SEEDING WILL BE DONE ON A FRESHLY PREPARED AND FIRMED SEEDBED. FOR BROADCAST PLANTING. USE A CULTIPACKER SEEDER, DRILL, ROTARY SEEDER, OTHER MECHANICAL SEEDER. OR HAND SEEDING TO DISTRIBUTE THE SEED UNIFORMLY OVER THE AREA TO BE TREATED. COVER THE SEED LIGHTLY WITH & TO & INCH OF SOIL FOR SMALL SEED AND \$ TO 1 INCH FOR LARGE SEED WHEN USING A CULTIPACKER OR OTHER SUITABLE EQUIPMENT.

NO-TILL SEEDING

NO-TILL SEEDING IS PERMISSIBLE INTO ANNUAL COVER CROPS WHEN PLANTING IS DONE FOLLOWING MATURITY OF THE COVER CROP OR IF THE TEMPORARY COVER STAND IS SPARSE ENOUGH TO ALLOW ADEQUATE GROWTH OF THE PERMANENT (PERENNIAL) SPECIES. NO-TILL SEEDING SHALL BE DONE WITH APPROPRIATE NO-TILL SEEDING EQUIPMENT. THE SEED MUST BE UNIFORMLY DISTRIBUTED AND PLANTED

AT THE PROPER DEPTH.

PLANT SHALL BE SET IN THE HOLE.

INDIVIDUAL PLANTS SHRUBS, VINES AND SPRIGS MAY BE PLANTED WITH APPROPRIATE PLANTERS OR HAND TOOLS. PINE TREES SHALL BE PLANTED MANUALLY IN THE SUBSOIL FURROW. EACH PLANT SHALL BE SET IN A MANNER THAT WILL AVOID CROWDING THE ROOTS. NURSERY STOCK PLANTS SHALL BE PLANTED AT THE SAME DEPTH OR SLIGHTLY DEEPER THAN THEY GREW AT THE NURSERY. THE TIPS OF VINES AND SPRIGS MUST BE AT OR SLIGHTLY ABOVE THE GROUND SURFACE. WHERE INDIVIDUAL HOLES ARE DUG, FERTILIZER SHALL BE PLACED IN THE BOTTOM OF THE HOLE, TWO INCHES OF SOIL SHALL BE ADDED AND THE

MULCH IS REQUIRED FOR ALL PERMANENT VEGETATION APPLICATIONS. MULCH APPLIED TO SEEDED AREAS SHALL ACHIEVE 75% SOIL COVER. SELECT THE MULCHING MATERIAL FROM THE FOLLOWING AND APPLY AS INDICATED:

1. DRY STRAW OR DRY HAY OF GOOD QUALITY AND FREE OF WEED SEEDS CAN BE USED. DRY STRAW SHALL BE APPLIED AT THE RATE OF 2 TONS PER ACRE. DRY HAY SHALL BE APPLIED AT A RATE OF 2 ½ TONS PER ACRE. 2. WOOD CELLULOSE MULCH OR WOOD PULP FIBER SHALL BE USED WITH HYDRAULIC SEEDING. IT SHALL BE APPLIED AT THE RATE OF 500 POUNDS PER ACRE. DRY STRAW OR DRY HAY SHALL BE APPLIED (AT THE RATE INDICATED ABOVE) AFTER HYDRAULIC SEEDING.

3. ONE THOUSAND POUNDS OF WOOD CELLULOSE OR WOOD PULP FIBER; WHICH INCLUDES A TACKIFIER, SHALL BE USED WITH HYDRAULIC SEEDING ON SLOPES \(\frac{3}{2}: 1 \) OR STEEPER.

4. SERICEA LESPEDEZA HAY CONTAINING MATURE SEED SHALL BE APPLIED AT A RATE OF THREE TONS PER ACRE. 5. PINE STRAW OR PINE BARK SHALL BE APPLIED AT A THICKNESS OF THREE INCHES FOR BEDDING PURPOSES. OTHER SUITABLE MATERIALS IN SUFFICIENT QUANTITY MAY BE USED WHERE ORNAMENTALS OR OTHER GROUND COVERS ARE PLANTED. THIS IS NOT APPROPRIATE FOR

6. WHEN USING TEMPORARY EROSION CONTROL BLANKETS OR BLOCK SOD, MULCH IS NOT REQUIRED. 7. BITUMINOUS TREATED ROVING MAY BE APPLIED ON PLANTED AREAS ON SLOPES. IN DITCHES OR DRY WATERWAYS TO PREVENT EROSION. BITUMINOUS TREATED ROVING SHALL BE APPLIED WITHIN 24 HOURS AFTER AN AREA HAS BEEN PLANTED. APPLICATION RATES AND MATERIALS MUST MEET GEORGIA DEPARTMENT OF

TRANSPORTATION SPECIFICATIONS. WOOD CELLULOSE AND WOOD PULP FIBERS SHALL NOT CONTAIN GERMINATION OR GROWTH INHIBITING FACTORS. THEY SHALL BE EVENLY DISPERSED WHEN AGITATED IN WATER. THE FIBERS SHALL CONTAIN A DYE TO ALLOW VISUAL METERING AND AID IN UNIFORM APPLICATION

DURING SEEDING. APPLYING MULCH

SEEDED AREAS.

<u>MULCHING</u>

STRAW OR HAY MULCH WILL BE SPREAD UNIFORMLY WITHIN 24 HOURS AFTER SEEDING AND/OR PLANTING. THE MULCH MAY BE SPREAD BY BLOWER-TYPE SPREADING EQUIPMENT, OTHER SPREADING EQUIPMENT OR BY HAND. MULCH SHALL BE APPLIED TO COVER 75% OF THE SOIL SURFACE.

WOOD CELLULOSE OR WOOD FIBER MULCH SHALL BE APPLIED UNIFORMLY WITH HYDRAULIC SEEDING EQUIPMENT.

ANCHORING MULCH

ANCHOR STRAW OR HAY MULCH IMMEDIATELY AFTER APPLICATION BY ON OF THE FOLLOWING METHODS: 1. EMULSIFIED ASPHALT CAN BE (A) SPRAYED UNIFORMLY ONTO THE MULCH AS IT IS EJECTED FROM THE BLOWER MACHINE OR (B) SPRAYED ON THE MULCH IMMEDIATELY FOLLOWING MULCH APPLICATION WHEN STRAW OR HAY IS SPREAD BY METHODS OTHER THAN SPECIAL BLOWER EQUIPMENT.

DEFINITION

CONDITIONS

<u>METHOD AND</u> <u>MATERIALS</u>

A. TEMPORARY METHODS

RECOMMENDATIONS.

AND BINDERS.

DESIRED EFFECT.

CONTROLLING SURFACE AND AIR MOVEMENT OF DUST ON

CONSTRUCTION SITES, ROADS, AND DEMOLITION SITES.

THIS PRACTICE IS APPLICABLE TO AREAS SUBJECT TO

OFF-SITE DAMAGE MAY OCCUR WITHOUT TREATMENT.

MULCHES. SEE STANDARD Ds1-DISTURBED AREA

SURFACE AND AIR MOVEMENT OF DUST WHERE ON AND

STABILIZATION (WITH MULCHING ONLY, SYNTHETIC RESINS

MAY BE USED INSTEAD OF ASPHALT TO BIND MULCH

MATERIAL. REFER TO STANDARD Tb-TACKIFIERS AND

SHOULD BE USED ACCORDING TO MANUFACTURER'S

STABILIZATION (WITH TEMPORARY SEEDING).

BINDERS. RESINS SUCH AS CURASOLOR OR TERRATACK

VEGETATIVE COVER. SEE STANDARD Ds2-DISTURBED AREA

SPRAY-ON ADHESIVES. THESE ARE USED ON MINERAL

SOILS (NOT EFFECTIVE ON MUCK SOILS). KEEP TRAFFIC

OFF THESE AREAS. REFER TO STANDARD Tb-TACKIFIERS

TILLAGE. THIS PRACTICE IS DESIGNED TO ROUGHEN AND

MEASURE WHICH SHOULD BE USED BEFORE WIND EROSION

IRRIGATION. THIS IS GENERALLY DONE AS AN EMERGENCY

BARRIERS. SOLID BOARD FENCES. SNOW FENCES. BURLAP

MATERIAL CAN BE USED TO CONTROL AIR CURRENTS AND

PREVAILING CURRENTS AT INTERVALS OF ABOUT 15 TIMES

SOIL BLOWING. BARRIERS PLACED AT RIGHT ANGLES TO

FENCES, CRATE WALLS, BALES OF HAY AND SIMILAR

THEIR HEIGHT ARE EFFECTIVE IN CONTROLLING WIND

CALCIUM CHLORIDE. APPLY AT RATE THAT WILL KEEP

PERMANENT VEGETATION. SEE STANDARD Ds3-DISTURBED

TOPSOILING. THIS ENTAILS COVERING THE SURFACE WITH

Tackifiers are used as a tie-down for soil, compost, seed, straw, hay or mulch. Tackifiers hydrate in

This practice is intended for direct soil surface application to sites where the timely establish}ment of

vegetation may not be feasible or where vegetation cover is absent or inadequate. Such areas include construction areas, where plant residues are inadequate to protect the soil sur}face and

where land disturbing activities prevent the establishment or maintenance of a vegetative cover.

Tac-1 Tacifiers: Synthetic Polymers — DO NOT USE (HARM FULL TO ANIMALS)

Tacified areas should be checked after every rain event. Periodic inspections and required

water and readily blend with other slurry materials to form a homogenous slurry.

GRAVEL. SEE STANDARD Cr-CONSTRUCTION ROAD

EXISTING TREES AND LARGE SHRUBS MAY AFFORD VALUABLE

LESS EROSIVE SOIL MATERIAL. SEE STANDARD Tp-TOPSOILING.

STONE. COVER SURFACE WITH CRUSHED STONE OR COARSE

AREA STABILIZATION (WITH PERMANENT VEGETATION).

SURFACE MOIST. MAY NEED RETREATMENT.

B. PERMANENT METHODS

STABILIZATION.

PROTECTION IF LEFT IN PLACE.

TREATMENT. SITE IS SPRINKLED WITH WATER UNTIL THE

BRING CLODS TO THE SURFACE. IT IS AN EMERGENCY

STARTS. BEGIN PLOWING ON WINDWARD SIDE OF SITE.

SPRING-TOOTHED HARROWS. AND SIMILAR PLOWS ARE

EXAMPLES OF EQUIPMENT WHICH MAY PRODUCE THE

SURFACE IS WET. REPEAT AS NEEDED.

CHISEL-TYPE PLOWS SPACED ABOUT 12 INCHES APART.

THE COMBINATION OF ASPHALT EMULSION AND WATER SHALL CONSIST OF A HOMOGENEOUS MIXTURE SATISFACTORY OF SPRAYING. THE MIXTURE SHALL CONSIST OF 100 GALLONS OF GRADE SS-1h OR CSS-1h EMULSIFIED

ASPHALT AND 100 GALLONS OF WATER PER TON OF

MULCH. CARE SHALL BE TAKEN AT ALL TIMES TO PROTECT STATE WATERS, THE PUBLIC, ADJACENT PROPERTY, PAVEMENTS, CURBS, SIDEWALKS, AND ALL OTHER STRUCTURES FROM ASPHALT DISCOLORATION.

2. HAY AND STRAW MULCH SHALL BE PRESSED INTO THE SOIL IMMEDIATELY AFTER THE MULCH IS SPREAD. A SPECIAL "PACKER DISK" OR DISK HARROW WITH THE DISKS SET STRAIGHT MAY BE USED. THE DISKS MAY BE SMOOTH OR SERRATED AND SHOULD BE 20 INCHES OR MORE IN DIAMETER AND 8 TO 12 INCHES APART. THE EDGES OF THE DISKS SHALL BE DULL ENOUGH TO PRESS THE MULCH INTO THE GROUND WITHOUT CUTTING IT. LEAVING MUCH OF IT IN AN ERECT POSITION. MULCH SHALL NOT BE PLOWED INTO THE SOIL.

3. SYNTHETIC TACKIFIERS OR BINDERS APPROVED BY GDOT SHALL BE APPLIED WITH OR IMMEDIATELY AFTER THE MULCH IS SPREAD. SYNTHETIC TACKIFIERS SHALL BE MIXED AND APPLIED ACCORDING TO MANUFACTURER'S SPECIFICATIONS. REFER TO Tb-TACKIFIERS AND BINDERS. 4. RYE AND WHEAT CAN BE INCLUDED WITH FALL AND WINTER PLANTINGS TO STABILIZE THE MULCH. THEY SHALL BE APPLIED AT A RATE OF ONE-QUARTER TO ONE-HALF

BUSHEL PER ACRE. 5. PLASTIC MESH OR NETTING WITH MESH NO LARGER THAN ONE INCH BY ONE INCH MAY BE NEEDED TO ANCHOR STRAW OR HAY MULCH ON UNSTABLE SOILS AND CONCENTRATED FLOW AREAS. THESE MATERIALS SHALL BE INSTALLED AND ANCHORED ACCORDING TO MANUFACTURER'S SPECIFICATIONS.

IRRIGATION

IRRIGATION SHALL BE APPLIED AT A RATE THAT WILL NOT CAUSE RUNOFF.

CONTRACTOR SHALL COMPLY WITH CONSTRUCTION SPECIFICATION 26 TOP SOILING.

DISTURBED AREA STABILIZATION (WITH PERMANENT VEGETATION)

DEFINITIONTHE ESTABLISHMENT OF TEMPORARY VEGETATIVE COVER WITH FAST GROWING SEEDINGS FOR SEASONAL PROTECTION

C REPRESENTS SOUTHERN COASTAL PLAIN: SAND HILLS: BLACK LANDS: AND ATLANTIC COAST FLATWOODS MLRAS

<u>GRADING AND SHAPING</u>

EXCESSIVE WATER RUN-OFF SHALL BE REDUCED BY PROPERLY DESIGNED AND INSTALLED EROSION CONTROL PRACTICES SUCH AS CLOSED DRAINS, DITCHES, DIKES, DIVERSIONS, SEDIMENT BARRIERS AND OTHERS. 2. NO SHAPING OR GRADING IS REQUIRED IF SLOPES CAN BE STABILIZED BY HAND-SEEDED VEGETATION OR IF HYDRAULIC SEEDING EQUIPMENT IS TO BE USED.

SEEDBED PREPARATION

WHEN A HYDRAULIC SEEDER IS USED, SEEDBED PREPARATION IS NOT REQUIRED. WHEN USING CONVENTIONAL OR HAND—SEEDING, SEEDBED PREPARATION IS NOT REQUIRED IF THE SOIL MATERIAL IS LOOSE AND NOT SEALED BY RAINFALL. WHEN SOIL HAS BEEN SEALED BY RAINFALL OR CON-SISTS OF SMOOTH CUT SLOPES, THE SOIL SHALL BE PITTED, TRENCHED OR OTHERWISE SCARIFIED TO PROVIDE A PLACE FOR SEED TO LODGE AND GERMINATE.

<u>LIME AND FERTILIZER</u>

AGRICULTURAL LIME IS REQUIRED UNLESS SOIL TESTS INDICATE OTHERWISE. APPLY AGRICULTURAL LIME AT A RATE OF ONE TON PER ACRE. GRADED AREAS REQUIRE LIME APPLICATION. SOILS CAN BE TESTED TO DETERMINE IF FERTILIZER IS NEEDED. ON REASONABLY FERTILE SOILS OR SOIL MATERIAL, FERTILIZER IS NOT REQUIRED. FOR SOILS WITH VERY LOW FERTILITY, 500 TO 700 POUNDS OF 10–10–10 FERTILIZER OR THE EQUIVALENT PER ACRE (12–16 LBS./1,000 SQ. FT.) SHALL BE APPLIED. FERTILIZER SHOULD BE APPLIED BEFORE LAND PREPARATION AND INCORPORATED WITH A DISK, RIPPER OR CHISEL. SELECT A GRASS OR GRASS-LEGUME MIXTURE SUITABLE TO THE AREA AND SEASON OF THE YEAR. SEED SHALL BE APPLIED UNIFORMLY BY HAND, CYCLONE SEEDER, DRILL, CULTIPACKER-SEEDER, OR HYDRAULIC SEEDER (SLURRY INCLUDING SEED AND FERTILIZER). DRILL OR CULTIPACKER

SEEDING SHOULD BE CONSIDERED FOR SHORT TERM PROTECTION. SEE DS1- DISTURBED AREA STABILIZATION, (WITH MULCHING ONLY).

GRASSING NOTES

ON DISTURBED OR DENUDED AREAS. <u>CONDITIONS</u>

TEMPORARY GRASSING INSTEAD OF MULCH, CAN BE APPLIED TO ROUGH GRADED AREAS THAT WILL BE EXPOSED FOR LESS THAN SIX MONTHS. TEMPORARY VEGETATIVE MEASURES SHOULD BE COORDINATED WITH PERMANENT MEASURES TO ASSURE ECONOMICAL AND EFFECTIVE STABILIZATION. MOST TYPES OF TEMPORARY VEGETATION ARE IDEAL TO USE AS COMPANION CROPS UNTIL THE PERMANENT VEGETATION IS ESTABLISHED.

. TEMPORARY COVER CROPS ARE VERY COMPETITIVE AND WILL CROWD OUT PERENNIALS IF SEEDED TOO HEAVILY.

2. REDUCE SEEDING RATES BY 50% WHEN DRILLED. 3. PLS IS AN ABBREVIATION FOR PURE LIVE SEED.

4. M-L REPRESENTS THE MOUNTAIN; BLUE RIDGE; AND RIDGES AND VALLEYS MLRAS P REPRESENTS THE SOUTHERN PIEDMONT MLRA

SEEDERS SHOULD NORMALLY PLACE SEED ONE—QUARTER
TO ONE—HALF INCH DEEP. APPROPRIATE DEPTH OF PLANTING
IS TEN TIMES THE SEED DIAMETER. SOIL SHOULD BE "RAKED"
LIGHTLY TO COVER SEED WITH SOIL IF SEEDED BY HAND.

<u>MULCHING</u> TEMPORARY VEGETATION CAN, IN MOST CASES, BE ESTABLISHED WITHOUT THE USE OF MULCH. MULCH WITHOUT

DURING TIMES OF DROUGHT, WATER SHALL BE APPLIED AT A RATE NOT CAUSING RUNOFF AND EROSION. THE SOIL SHALL BE THOROUGHLY WETTED TO A DEPTH THAT WILL INSURE GERMINATION OF THE SEED. SUBSEQUENT APPLICATIONS SHOULD BE MADE WHEN NEEDED.

MULCH MATERIALS SHALL CONSIST OF DRY STRAW OR HAY AT 2.5 TONS PER ACRE, WOOD CHIPS AT 6 TO 9 TONS PER ACRE,

EROSION CONTROL MATTING OR NETTING, OR POLYETHYLENE FILM.

ESTABLISHING A TEMPORARY PROTECTION FOR

TACKIFIERS

Tac-2 Tacifiers: Organic Polymers

Tac-3 Tacifiers: Synthetic/Organic Polymers Blends

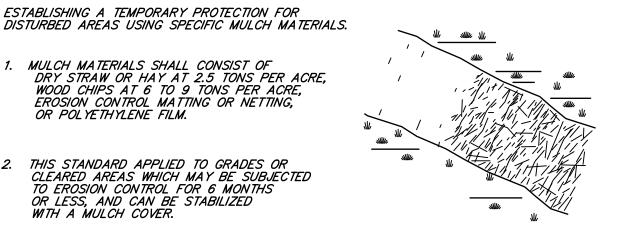
Tac-4 Tacifiers: Oragnic Tacifiers with Synthetic Fibers

Tac-5 Tacifiers: Synthetic/Oragnic Blends with Synthethic Fibers

maintenance must be provided per manufacturer's recomendations.

THIS STANDARD APPLIED TO GRADES OR CLEARED AREAS WHICH MAY BE SUBJECTED TO EROSION CONTROL FOR 6 MONTHS
OR LESS, AND CAN BE STABILIZED WITH A MULCH COVER.

(WITH MULCHING)



Know what's below. Call before you dig.

PRIMARY PERMITTEE

OWNER: CITY OF TUCKER PAKS AND RECREATION DEPT. 4898 LAVISTA RD, TUCKER, GA 30084 CONTACT: RIP ROBERTSON, DIRECTOR PHONE: (470) 481-0205

EMAIL: rrobertson@tuckerga.gov

24 HR. CONTACT PERSON

RIP ROBERTSON (470) 481-0205

							9
							V
ND.	REVISIONS	MADE	CKD.	DATE	DRAWING NO.	REFERENCE DRAWINGS	



SCALE: AS SHE	JWN	DATE	
DESIGN BY: JR	/JH	01/23	
DRAWN BY: JH	/EC	01/23	
CHECKED BY: J	R	01/23	
COA: PEF 000707	EXP: 06/	30/2024	

JASON RAPPLEAN, PE, EOR LEVEL 2 CERTIFICATION # 3031 EXPIRATION DATE:

JOHNS HOMESTEAD PARK **EROSION CONTROL GRASSING DETAIL**

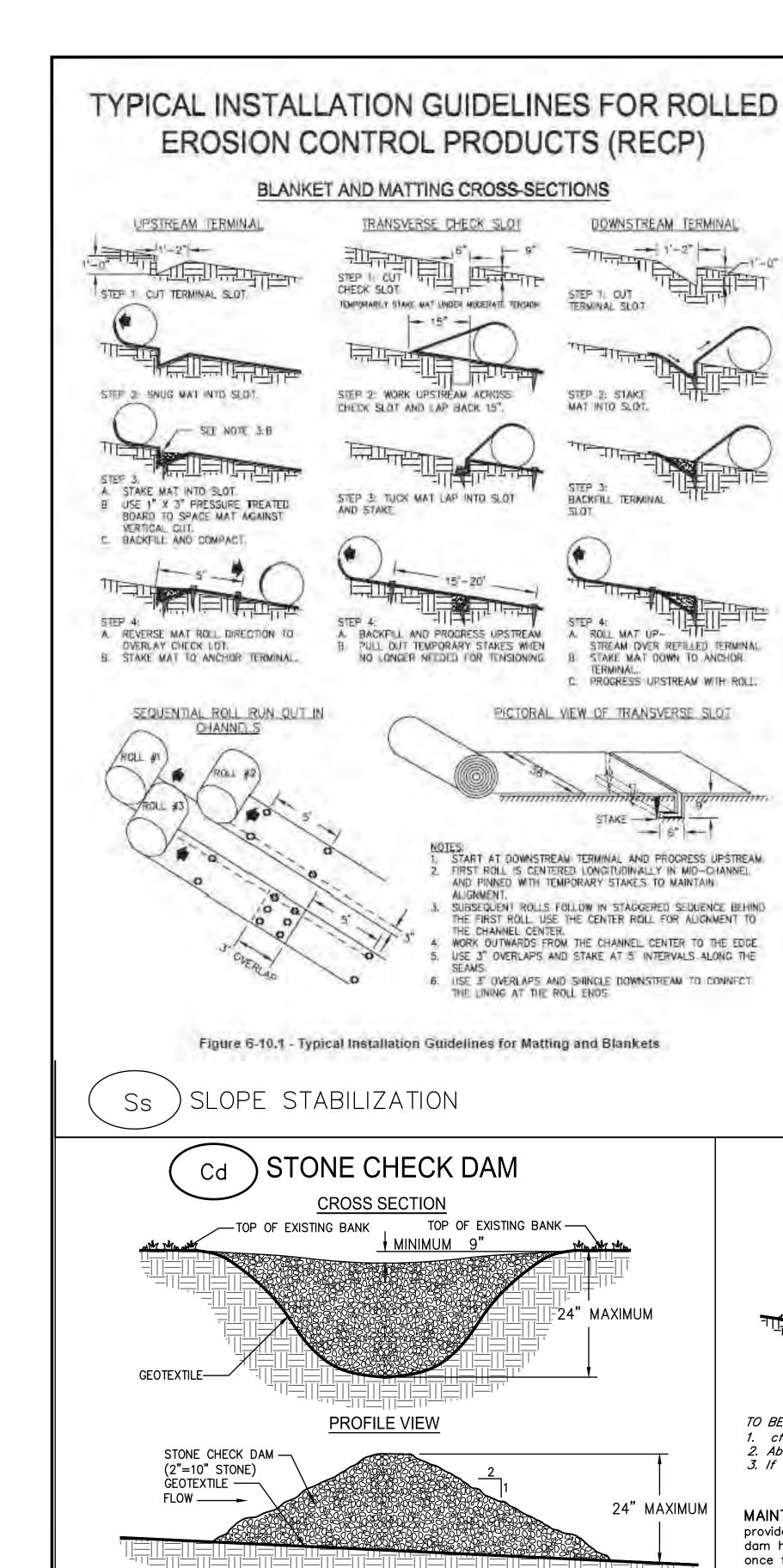
DISTURBED AREA STABILIZATION



WALDEN, ASHWORTH & ASSOCIATES, INC. CONSULTING ENGINEERS

> P.O. BOX 6462 MARIETTA, GEORGIA 30065 (770) 956 - 7879

42016-C-205



1. CHECK DAMS ARE TO BE USED ONLY IN SMALL OPEN CHANNELS (THEY ARE NOT TO

BE USED IN LIVE STREAMS).
THE DRAINAGE AREA FOR STONE CHECK DAMS SHALL NOT EXCEED TWO ACRES.

3. THE CENTER OF THE CHECK DAM MUST BE AT LEAST 9 INCHES LOWER THAN THE

4. THE DAM HEIGHT SHOULD BE A MAXIMUM OF 2 FEET FROM CENTER TO RIM EDGE. THE SIDE SLOPES OF THE CHECK DAM SHALL NOT EXCEED A 2:1 SLOPE. 6. GEOTEXTILE SHALL BE USED TO PREVENT THE MITIGATION OF SUBGRADE SOIL

PARTICLES INTO THE STONES (REFER TO AASHTO M288-96, SECTION 7.3, TABLE 3).

SITE PREPERATION: After the site has been shaped and graded to the approved design, prepare a friable seedbed relatively free from clods and rocks more than one inch in diameter, and any foreign material that will prevent contact of the soil stabilization mat with the soil surface. Surface must be smooth to ensure proper contact of blankets or matting to the soil surface. If necessary, redirect any runoff from the ditch or slope during installation.

MAINTENANCE: All erosion control blankets and matting should be inspected periodically following installation, particularly after rainstorms to check for erosion and undermining. Any dislocation or failure should be repaired immediately. If washouts or breakage occurs, reinstall the material after repairing damage to the slope or ditch. Continue to monitor these areas until they become permanently

FOR THIS PROJECT:

This project shall utilize blankets for all slopes exceeding slopes of 3:1. For slopes along the roadway and behind the townhome units that exceed ten (10') vertical feet in height, extended term blankets shall be used to allow for vegetation to establish on the slopes and fully stabilize them.

(functional longevity 12 mo.)

Straw blankets with a top and bottom side photo degradable net. The maximum size of the mesh should be openings of ½" X ½". The

Straw blanket with a top and bottom side biodegradable jute net. The top side net should consist of machine direction strands that are wisted together and then interwoven with cross direction strands (leno weave). The bottom net may be leno weave or otherwise to meet requirements. The approximate size of the mesh should be openings of 0.5" X 1.0". The blanket should be sewn together on 1.5" centers with degradable thread. Minimum thickness should be 0.25" and minimum density should be 0.5 lbs per square yard.

(functional longevity 24 mo.)

Blankets that consist of 70% straw and 30% coconut with a top and bottom side photodegrad}able net. The top net should have ultraviolet additives to delay breakdown. The maximum size of the mesh should be openings of 0.65" X 0.65". The blanket should be sewn together on 1.5" centers with degradable thread. Minimum thickness should be 0.35" and minimum density should be 0.6 lbs per

ii.Biodegradable Blankets that consist of 70% straw and 30% coconut with a top and bottom side biodegrad able jute net. The top side net should consist of machine direction strands that are twisted to}gether and then interwoven with cross direction strands (leno weave). The bottom net may be leno weave or otherwise to meet requirements. The approximate size of the mesh should be openings of 0.5" X 1.0". The blanket should be sewn together on 1.5" centers with degradable thread. Minimum thickness should be 0.25" and minimum density should be 0.65 lbs per square vard.

Long-Term (functional longevity 36 mo.)

Photodegradable Blankets that consist of 100% coconut with a top and bottom side photodegradable net. Each net should have ultraviolet additives to delay breakdown. The maximum size of the mesh should be openings of 0.65" X 0.65". The blanket should be sewn together on 1.5" centers with degradable thread. Minimum thickness should be 0.3" and minimum density should be 0.5 lbs per square yard.

STONE CHECK DAM

SPACING BETWEEN CHECK DAMS

Blankets that consist of 100% coconut with a top and bottom side biodegradable jute net. The top side net should consist of machine direction strands that are twisted together and then inter}woven with cross direction strands (leno weave). The bottom net may be leno weave or otherwise to meet requirements. The approximate size of the mesh should be openings of 0.5" X 1.0". The blanket should be sewn together on 1.5" cen}ters with degradable thread. Minimum thickness should be 0.25" and minimum density should be 0.5 lbs per square yard

2. Above 2,0 cfs: (Yes) TEMP. SHORT TERM No

It is the intention of this section to allow inter}changeable use of RECPs and HECPs for ero}sion protection on slopes. The project engineer should select the type of erosion control product that best fits the need of the particular site.

After the site has been shaped and graded to the approved design, prepare a friable seedbed relatively free from clods and rocks more than one inch in diameter, and any foreign material that will prevent contact of the soil stabiliza}tion mat with the soil surface. Surface slope during installa}tion

All erosion control blankets and matting should be inspected periodically following installation, particularly after rainstorms to check for erosion and undermining. Any dislocation or fail}ure should be repaired immediately. If washouts or breakage occurs, reinstall the material after repairing damage to the slope or ditch. Continue to monitor these areas until they become perma}nently stabilized.

A = THE TOE OF THE UPSTREAM CHECK DAM.

 $_{-}$ = THE DISTANCE SUCH THAT POINTS A AND

B = TOP OF THE DOWNSTREAM CHECK DAM.

B ARE OF EQUAL ELEVATION.

SILT FENCE - Sd1-S (TYPE C) SIDE VIEW 30" MIN. 18" MIN. FRONT VIEW 4' MAX. O.C. —— FABRIC 30" MIN. (WOVEN WIRE FENCE BACKING)

TO BE SHOWN ON THE EROSION AND SEDIMENT CONTROL PLAN 5 CFS UNTIL SPILLWAY IN 1. cfs in the channel/ditch that the check dam is being used in: REPAIRED. THEN 0 CFS. 3. If Yes, list BMP being used in conjunction with check dams: UPPER DAM SPILLWAY. ONCE REPAIRED, O CFS WILL GO DOWN

18" MIN.

SIDE CHANNEL, RUNOFF WILL GO

MAINTENANCE: Periodic inspection and required maintenance must be provided. Sediment shall be removed when it reaches a depth of one—half the original dam height or before. If the area is to be mowed, check dams shall be removed once final stabilization has occurred. Otherwise check dams may remain in place permanently. After removal, the area beneath the dam shall be seeded and mulched immediately.

CRUSHED STONE CONSTRUCTION EXIT EXIT DIAGRAM -HARD SURFACE PUBLIC ROAD (SEE NOTE 8) CULVERT UNDER-ENTEANCE (IF NEEDED) DIVERSION RIDGE -(SEE NOTE 6) TIRE WASHRACK AREA— TIRE WASHERS SUPPLY WATER TO WASH-WHEELS IF NECESSARY ∠COURSE AGGREGATE (N.S.A R-2) **ENTRANCE ELEVATION** GEOTEXTILE UNDERLINER --ORIGINAL GRADE

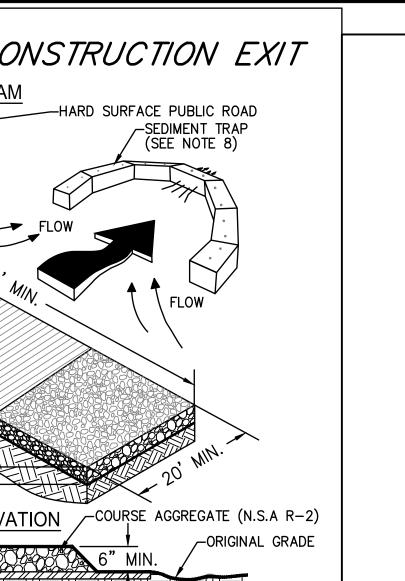
. AVOID LOCATING ON STEEP SLOPES OR AT CURVES ON PUBLIC ROADS.

REMOVE ALL VEGETATION AND OTHER UNSUITABLE MATERIAL FROM THE FOUNDATION AREA, GRADE, AND CROWN FOR POSITIVE DRAINAGE. . AGGREGATE SIZE SHALL BE IN ACCORDANCE WITH NATIONAL STONE ASSOCIATION R-2 (1.5"-3.5" STONE). 4. GRAVEL PAD SHALL HAVE A MINIMUM THICKNESS OF 6".

5. PAD WIDTH SHALL BE EQUAL FULL WIDTH AT ALL POINTS OF VEHICULAR EGRESS, BUT NO LESS THAN 20' 6. A DIVERSION RIDGE SHOULD BE CONSTRUCTED WHEN GRADE TOWARD PAVED AREA IS GREATER THAN 2%.. INSTALL PIPE UNDER THE ENTRANCE IF NEEDED TO MAINTAIN DRAINAGE DITCHES. B. WHEN WASHING IS REQUIRED, IT SHOULD BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE THAT DRAINS INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN (DIVERT ALL SURFACE RUNOFF AND

DRAINAGE FROM THE ENTRANCE TO A SEDIMENT CONTROL DEVICE). WASHRACKS AND/OR TIRE WASHERS MAY BE REQUIRED DEPENDING ON SCALE AND CIRCUMSTANCE. IF NECESSARY, WASHRACK DESIGN MAY CONSIST OF ANY MATERIAL SUITABLE FOR TRUCK TRAFFIC THAT

REMOVE MUD AND DIRT. O.MAINTAIN AREA IN A WAY THAT PREVENTS TRACKING AND/OR FLOW OF MUD ONTO PUBLIC RIGHTS-OF-WAYS. THIS MAY REQUIRE TOP DRESSING, REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT.



SHOOTS OR GRASS BLADES: GRASS SHOULD BE GREEN AND HEALTHY, MOWED AT A 2"-3" CUTTING HEIGHT. THATCH: GRASS CLIPPINGS AND DEAD LEAVES (UP TO 1/2" THICK).

INCORRECT

CONSTRUCTION SPECIFICATIONS

6-20.5, AND 6-20.6 RESPECTIVELY.

BACKED BY HAYBALES SHALL BE USED.

MAINTENANCE

TYPE NS

TYPE S

BOTH THE MANUFACTURER AND FABRIC NAME EVERY 100'.

THE MANUFACTURER SHALL HAVE EITHER AN APPROVED COLOR MARK

YARN IN THE FABRIC OR OR LABEL THE FABRICATED SILT FENCE WITH

THE TEMPORARY SILT FENCE SHALL BE INSTALLED ACCORDING TO THIS

SPECIFICATION. AS SHOWN ON THE PLANS OR AS DIRECTED BY THE

ENGINEER. FOR INSTALLATION OF THE FABRIC, SEE FIGURES 6-20.4,

POST INSTALLATION SHALL START AT THE CENTER OF THE LOW POINT

(IF APPLICABLE) WITH REMAINING POSTS SPACED 6 FEET APART FOR

FENCE. WHILE TYPE "A" AND "B" SILT FENCES CAN BE USED WITH

BOTH WOOD AND STEEL POSTS, ONLY STEEL POSTS SHALL BE USED

6-20.3. FASTENERS FOR WOOD POSTS ARE LISTED IN TABLE 6-20.4.

ALONG STREAM BUFFERS AND OTHER SENSITIVE AREAS, TWO ROWS OF

ONE-HALF THE ORIGINAL HEIGHT OF THE BARRIER. FILTER FABRIC SHALL

BE REPLACED WHENEVER IT HAS DETERIORATED TO SUCH AN EXTENT

PLACE UNTIL DISTURBED AREAS HAVE BEEN PERMANENTLY STABILIZED.

ALL SEDIMENT ACCUMULATED AT THE BARRIER SHALL BE REMOVED AND

TABLE 6-13.3

TYPE OF POST

SOFT WOOD

STEEL

STEEL

SIZE OF POST

1.5"x1.5"

3" DIA. OR 2x4

1.3 LB/FT MIN.

1.3LB/FT MIN.

SIX MONTHS). TEMPORARY SEDIMENT BARRIERS SHALL REMAIN IN

PROPERLY DISPOSED OF BEFORE THE BARRIER IS REMOVED.

THAT THE EFFECTIVENESS OF THE FABRIC IS REDUCED (APPROXIMATELY

TYPE "C" SILT FENCE OR OR ONE ROW OF TYPE "C" SILT FENCE

SEDIMENT SHALL BE REMOVED ONCE IT HAS ACCUMULATED TO

ROOT ZONE: SOIL AND ROOTS. SHOULD BE 1/2"-3/4" THICK WITH DENSE ROOT MAT FOR STRENGTH.

COPYRIGHT (C) 2023, WALDEN, ASHWORTH & ASSOCIATES, INC., ALL RIGHTS RESERVED

SOD LAYOUT AND PREPARATION

AND DO NOT OVERLAP. A SHARPENED MASON'S TROWEL IS A HANDY TOOL FOR TUCKING DOWN THE

<u>BUTTING</u>: ANGLED ENDS CAUSED BY THE AUTOMATIC SOD CUTTER MUST BE MATCHED CORRECTLY.

ENDS AND TRIMMING PIECES.

DIRECTIONS FOR INITIAL MAINTENANCE

APPEARANCE OF GOOD SOD

ROLL SOD IMMEDIATELY TO ACHIEVE FIRM CONTACT WITH THE SOIL

 $2 \cdot$ Water to a depth of 4" as needed. Water well as soon as the sod $2 \cdot$ is laid.

3 MOW WHEN THE SOD IS ESTABLISHED -- IN 2-3 WEEKS. SET THE MOWER HIGH (2"-3").

LAY SOD IN A STAGGERED PATTERN. BUTT THE STRIPS

TIGHTLY AGAINST EACH OTHER. DO NOT LEAVE SPACES

AGRICULTURAL LIME SHOULD BE APPLIED BASED ON SOIL TESTS OR AT A RATE OF 1 OR 2 TONS PER ACRE.

licatio	m
tilizer	
10000	100
ate /sq ft)	Se
25	ı

DISTURBED AREA STABILIZATION (WITH SOD)

Ds4 INSTALLATION: Lay sod with tight joints and in straight lines. Don't overlap joints. Stagger joints and do not stretch sod (See Figure 6-6.2)

On slopes steeper than 3:1, sod should be anchored with pins or other approved methods. Installed sod should be rolled or tamped to provide good contact between sod and soil. Irrigate sod and soil to a depth of 4"immediately after installation. Sod should not be cut or spread in extremely wet or dry weather. Irrigation should be used to supplement rainfall for a minimum of 2-3 weeks.

MATERIALS: Sod selected should be certified. Sod grown in the general area of the project is desirable.

Sod should be machine cut and contain 3/4"

or -1/4") of soil, not including shoots or thatch. Sod should be cut to the desired size within TYPE "A" AND "B" SILT FENCES AND 4 FEET APART FOR TYPE "C" SILT | 2

or -5%. Torn or uneven pads should be rejected. Sod should be cut and installed within 36 hours of diaging. Avoid planting when subject to frost heave or hot weather, if WITH TYPE "C" SILT FENCE. FOR POST SIZE REQUIREMENTS, SEE TABLE 4.

irrigation is not available. The sod type should be shown on the plans or installed according to Table 6-6.2. See Figure 6-4.1 for your Resource Area

MAINTENANCE: Re—sod areas where an adequate stand of sod is not obtained. New sod should be mowed sparingly. Grass height should not be cut less than 2"-3" or as specified (See Figure 6-6.2). Apply one ton of agricultural lime as indicated by soil test or every 4-6 years. Fertilize grasses in accordance with soil tests or

Know what's below. Call before you dig. PRIMARY PERMITTEE OWNER: CITY OF TUCKER PAKS AND RECREATION DEPT. 4898 LAVISTA RD, TUCKER, GA 30084

CONTACT: RIP ROBERTSON, DIRECTOR PHONE: (470) 481-0205 EMAIL: rrobertson@tuckerga.gov

24 HR. CONTACT PERSON

RIP ROBERTSON (470) 481-0205

SILT FENCE - Sd1-S (TYPE C)

EXPIRATION DATE:

NOTES:

1. USE STEEL OR WOOD POSTS OR AS SPECIFIED BY THE EROSION, SEDIMENTATION,

2. HEIGHT (*) IS TO BE SHOWN ON THE EROSION, SEDIMENTATION, AND POLLUTION

REFERENCE DRAWINGS CKD. DRAWING NO.

24" MAXIMUM

No. 30441 PROFESSIONAL

06/19/2024

AND POLLUTION CONTROL PLAN.

SCALE: AS SHOWN 01/23 JR/JH DESIGN BY JH/EC DRAWN BY: CHECKED BY: CDA: PEF 000707 | EXP: 06/30/2024

01/23 01/23 JASON RAPPLEAN, PE, EOR LEVEL 2 CERTIFICATION # 3031

CITY OF TUCKER AND DEKALB COUNTY

JOHNS HOMESTEAD PARK

EROSION CONTROL

EROSION CONTROL DETAILS 1

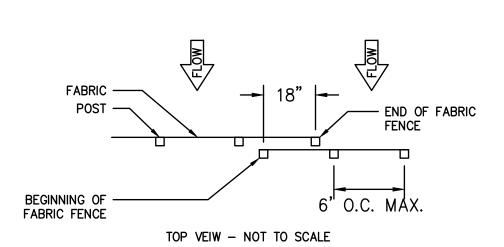
WALDEN, ASHWORTH & ASSOCIATES, INC.

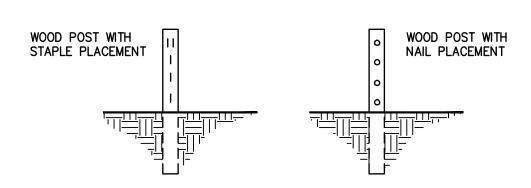
CONSULTING ENGINEERS P.O. BOX 6462 MARIETTA, GEORGIA 30065 (770) 956 - 7879

42016-C-206

FASTENERS FOR SILT FENCES

OVERLAP AT FABRIC ENDS



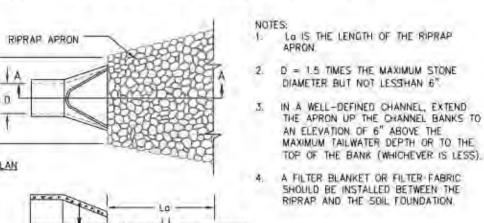


FRONT VIEWS - NOT TO SCALE

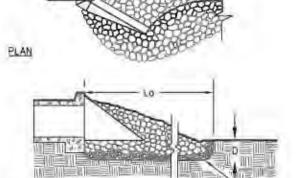
THE FABRIC AND WIRE SHOULD BE SECURELY FASTENED TO POSTS AND FABRIC ENDS MUST BE OVERLAPPED A MINIMUM OF 18" OR WRAPPED TOGETHER AROUND A POST TO PROVIDE A CONTINUOUS FABRIC BARRIER AROUND THE INLET.

RIPRAP OUTLET PROTECTION

PIPE OUTLET TO FLAT AREA - NO WELL DEFINED CHANNE







CONSTRUCTION SPECIFICATIONS 1. Ensure that the subgrade for the filter and riprap follows the required lines and grades shown in the plan. Compact any fill required

in the subgrade to the density of the sur-

rounding undisturbed material. Low areas in the subgrade on undisturbed soil may also be filled by increasing the riprap thickness 2. The riprap and gravel filter must conform to the specified grading limits shown on the

3. Geotextile must meet design requirements and be properly protected from punching or

tearing during installation. Repair any dam-

age by removing the riprap and placing an-

other piece of filter fabric over the damaged area. All connecting joints should overlap a minimum of 1 ft. If the damage is extensive,

replace the entire filter fabric.

Riprap may be placed by equipment, but take

care to avoid damaging the filter. 5. The minimum thickness of the riprap should

6. Construct the apron on zero grade with no overfall at the end. Make the top of the riprap at the downstream end level with the receiving area or slightly below it.

be 1.5 times the maximum stone diameter.

8. Immediately after construction, stabilize all disturbed areas with vegetation.

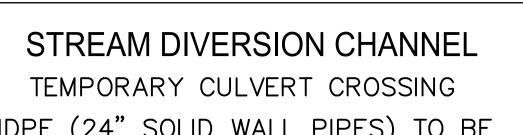
9. Stone quality - Select stone for riprap from field stone or quarry stone. The stone should be hard, angular, and highly weather-resistant. The specific gravity of the individual stones should be at least 2.5.

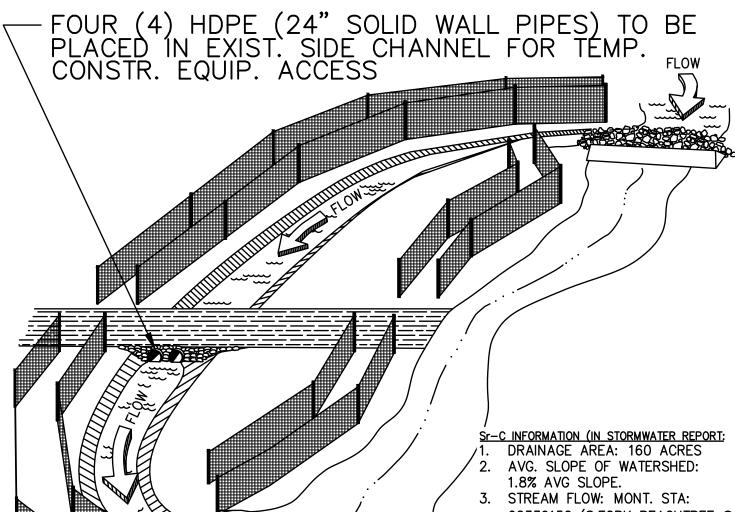
10. Filter - Install a filter to prevent soil movement through the openings in the riprap. The filter should consist of a graded gravet layer or a

MAINTENANCE Inspect riprap outlet structures after heavy rains to see if any erosion around or below the riprap has taken place or if stones have been

PIPE	W				OUTLET VEL	TW<0.5Do	PIPE II	V <i>V d50</i>	D
NO.	(FT)	(FT)	(FT)	(FT)	(FPS)	(YES or NO)	(FT)	(FT)	(FT)
1B	4.1	<i>5.2</i>	6	2.0	6.4	YES	984.0	0.75	2.0

synthetic filter cloth. See Appendix C; p. C-1 dislodged. Immediately make all needed repairs Figure 6-34.3 - Riprap Outlet Protection (Modified From Va SWCC) to prevent further damage. St RIPRAP OUTLET CALCULATIONS CHART





02336152 (S.FORK PEACHTREE @ CASSA DR) 1 WK AVG. 2.2 CFS (LOCATION WELL BELOW THE CROSSING LOCATION BUT NONE

4. BANK FÚLL FLOW RATE: 203 CFS (BASED ON HMS CALCS.) 5. DIMENSIONS: BOTTOM WIDTH = 10'

TOP WIDTH = 26' AT HT=10 V.F.

THE BOTTOM WIDTH OF THE STREAM DIVERSION SHALL BE A MINIMUM OF SIX FEET <u>OR</u> EQUAL TO THE BOTTOM WIDTH OF THE EXISTING STREAMBED (WHICHEVER IS GREATER).

SIDE SLOPES OF THE STREAM DIVERSION CHANNEL SHALL BE NO STEEPER THAN 2:1. THE CHANNEL SHALL BE EXCAVATED, CONSTRUCTING PLUGS AT BOTH ENDS.

TWO ROWS OF TYPE S SEDIMENT BARRIERS SHALL BE PLACED ALONG THE SIDES OF THE CHANNEL TO PREVENT UNFILTERED RUNOFF FROM ENTERING THE STREAM.

THE CHANNEL SURFACE SHALL BE SMOOTH (TO PREVENT TEARING OF THE LINER) AND LINED WITH THE MATERIAL SPECIFIED IN THE PLANS. THE PLUGS ARE REMOVED WHEN THE LINER INSTALLATION IS COMPLETE (REMOVING THE DOWNSTREAM

PLUG FIRST). CMP PIPES ARE NOT ALLOWED BY THE GA SAFE DAMS PROGRAM FOR TEMPORARY OR PERMANENT USE AS A DRAINAGE PIPE OR STRUCTURE ON A DAM.

TEMP. CONSTRUCTION ROAD STABILIZATION

The gradient and vertical and horizontal align ment shall be adapted to the intensity of use, mode of travel, and level of development. Grades for temporary roads should not exceed 10 percent except for very short lengths (200 feet or less), but maximum grades of 20 percent or more may be used if necessary for special uses. Frequent grade changes generally cause fewer erosion problems than long continuous gradients.Curves and switchbacks must be of sufficient radius for trucks and other large vehicles to negoti ate easily. On temporary roads, the radius should be no less than 35 feet for standard vehicles and 50 feet for tractor-trailers. Grades for temporary parking areas should be sufficient to provide drainage but should not exceed 4 percent.

Temporary roadbeds shall be at least 14 feet wide for one-way traffic and 20 feet wide for two way traffic. The width for two-way traffic shall be increased approximately 4 feet for trailer traffic. A minimum shoulder width shall be 2 feet on each side. Where turnouts are used, road width shall be increased to a minimum of 20 feet for a distance of 30 feet.

Side Slopes All cuts and fills shall have side slopes de signed to be stable for the particular site conditions and soil materials involved. All cut and fills shall be 2:1 or flatter to the extent possible. When maintenance by machine mowing is planned, side slopes shall be no steeper than 3:1.

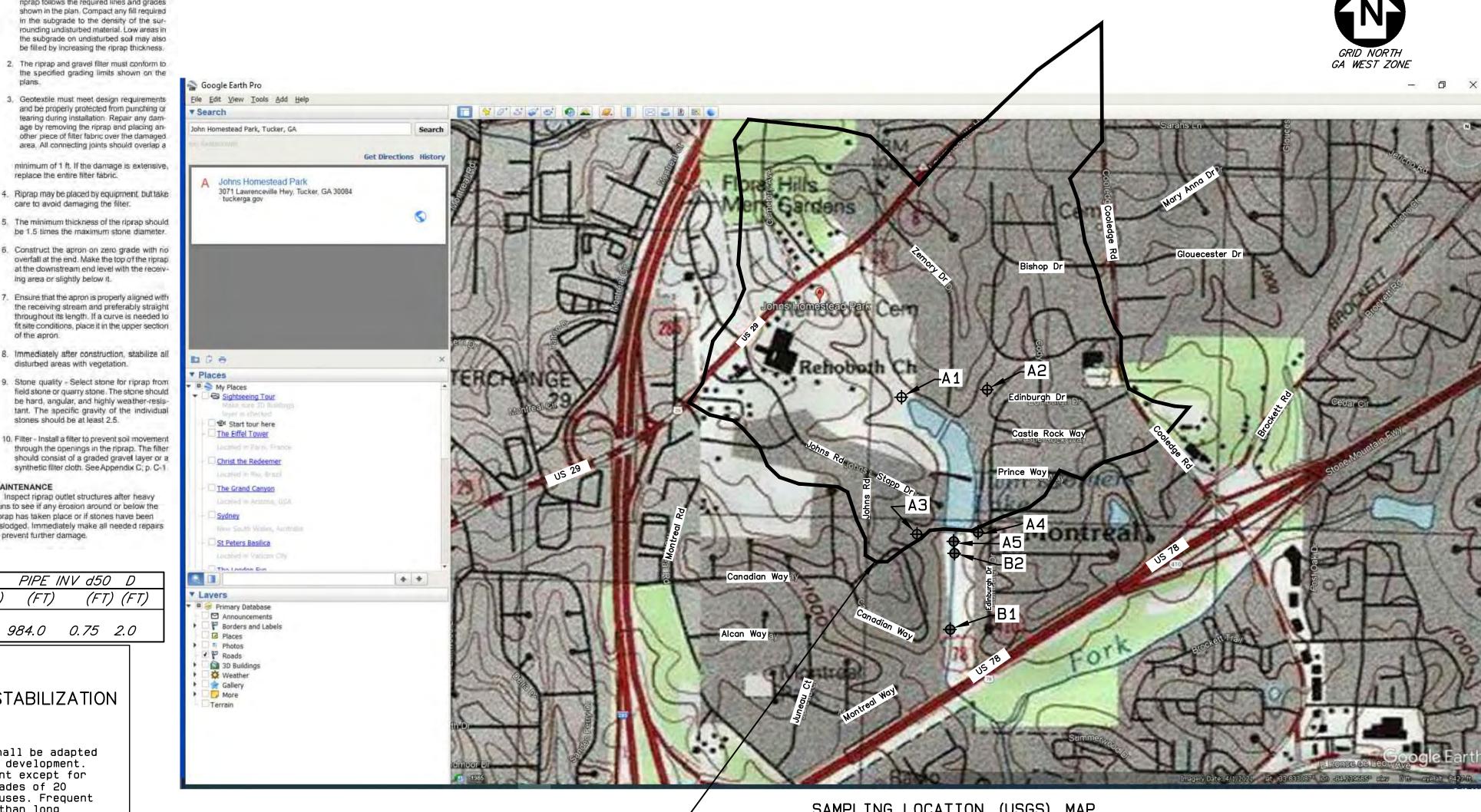
Drainage Structures

See plan for temporary drainage structures. A design will be denoted on the plan or in the plan notes. Drainage Structures will be designed for the 25-yr 24-hr storm event or greater. Water breaks or bars may be added to control surface runoff.

Geotextile should be applied to the roadbed for additional stability. Geotextile selection shall be based on AASHTO M288-06 specification: 1. For subgrades with a CBR greater than or equal to 3 or shear strength greater than 90 kPa, geotextile must meet requirements of section AASHTO M288-06 Section 7.3, Separation Requirements. 2. For subgrades with a CBR between 1 and 3 or sheer strength between 30 and 90 kPa, geotextile must meet requirements of sec tion AASHTO M288-06 Section 8, Geotextile Property

Requirements. A 6-inch course of coarse aggregate shall be applied immediately after grading or the completion of utility installation within the right-of-way. In areas experiencing heavy duty traffic situations, stone should be placed at an 8 to 10 inch depth to avoid excessive dissipation or maintenance needs. All roadside ditches, cuts, fills and disturbed areas adjacent to parking areas and/or roads shall be stabilized with appropriate

temporary and/or permanent vegetation according to Ds2 specifications. Permanent Parking Areas shall be installed in accordance with the local authority's standards or GDOT's if the local authority does not have a standard for temporary parking.



SAMPLING LOCATION (USGS) MAP

DRAINAGE BASIN: 0.9700 SQ. MI. (DISTURBING 3.5 AC.

CATCH SAMPLE AND ADD A1 THRU A5 TOGETHER TO GET A COLLECTIVE FLOWING INTO SOUTH FORK PEACHTREE CREEK AND THEN CATCH A SAMPLE IN THE CREEK B1, WHICH WILL BE DOWNSTREAM WERE ALL THE WORK WILL TIE INTO THE STREAM SEGMENT (SEE C-200 NOTES PLAN) FOR SAMPLING LOCATION POINT).

COPYRIGHT © 2023, WALDEN, ASHWORTH & ASSOCIATES, INC., ALL RIGHTS RESERVED

PROPOSED: CATCH SAMPLE POINTS WILL BE THE DISCHARGE FROM THE LOWER DAM'S LABYRINTH SPILLWAY'S RIPRAP PAD (POINT B2) AND THE SAME POINT B1 WHERE THE WORK CONNECTS TO THE STREAM SEGMENT SO THAT THE EXISTING CONDITIONS CAN BE COMPARED TO THE PROPOSED CONDITIONS.



PRIMARY PERMITTEE

OWNER: CITY OF TUCKER PAKS AND RECREATION DEPT. 4898 LAVISTA RD, TUCKER, GA 30084 CONTACT: RIP ROBERTSON, DIRECTOR PHONE: (470) 481-0205 EMAIL: rrobertson@tuckerga.gov

24 HR. CONTACT PERSON

RIP ROBERTSON (470) 481-0205

CKD. DATE DRAWING NO. REFERENCE DRAWINGS **REVISIONS**



SCALE: AS SHE]WN	DATE
DESIGN BY: JR	/JH	01/23
DRAWN BY: JH	01/23	
снескей ву: Ј	R	01/23
C□A: PEF 000707	EXP: 06/	30/2024

JASON RAPPLEAN, PE, EOR CITY OF TUCKER AND DEKALB COUNTY LEVEL 2 CERTIFICATION # 3031 12/07/26 EXPIRATION DATE:

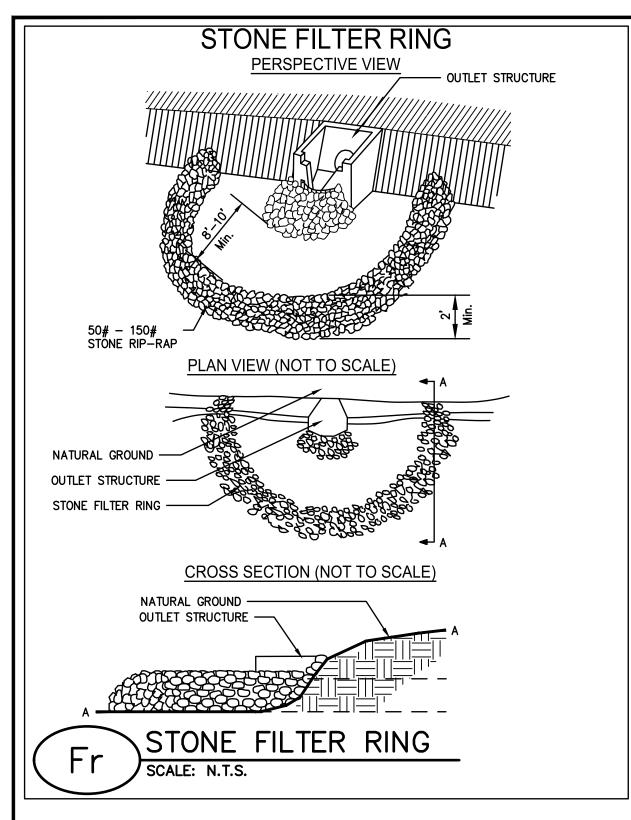
JOHNS HOMESTEAD PARK **EROSION CONTROL EROSION CONTROL DETAILS 2**

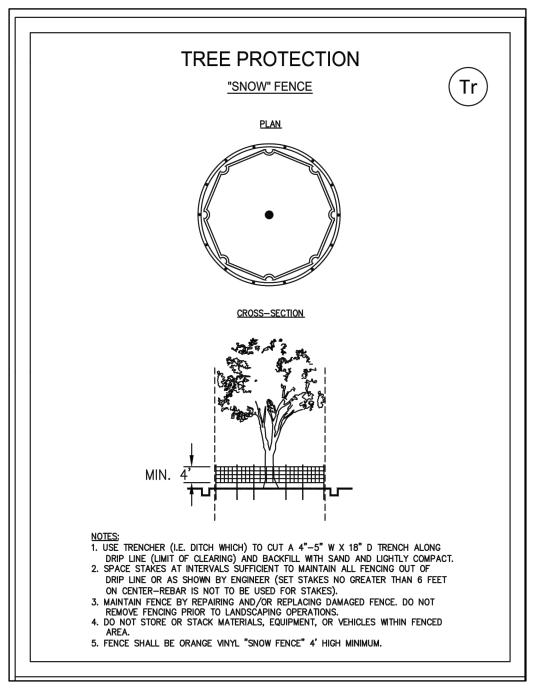


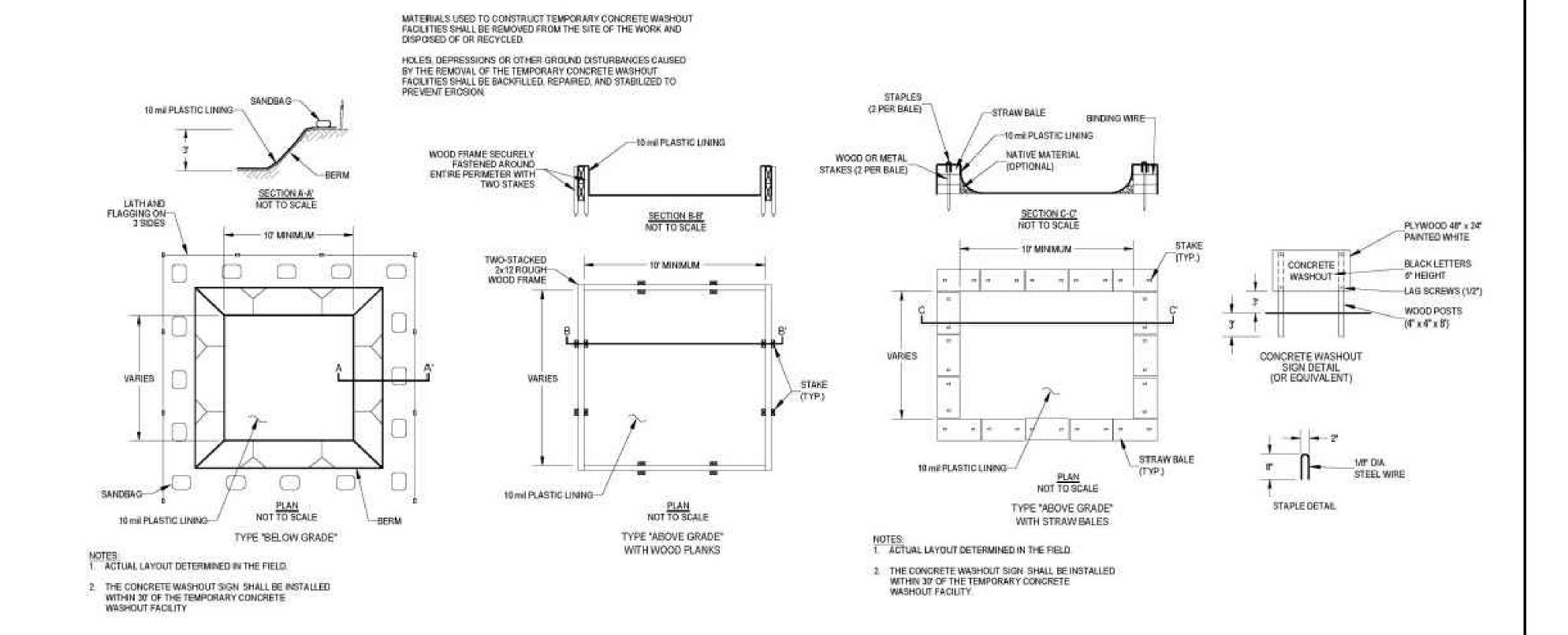
WALDEN, ASHWORTH & ASSOCIATES, INC.

CONSULTING ENGINEERS P.O. BOX 6462 MARIETTA, GEORGIA 30065 (770) 956 - 7879

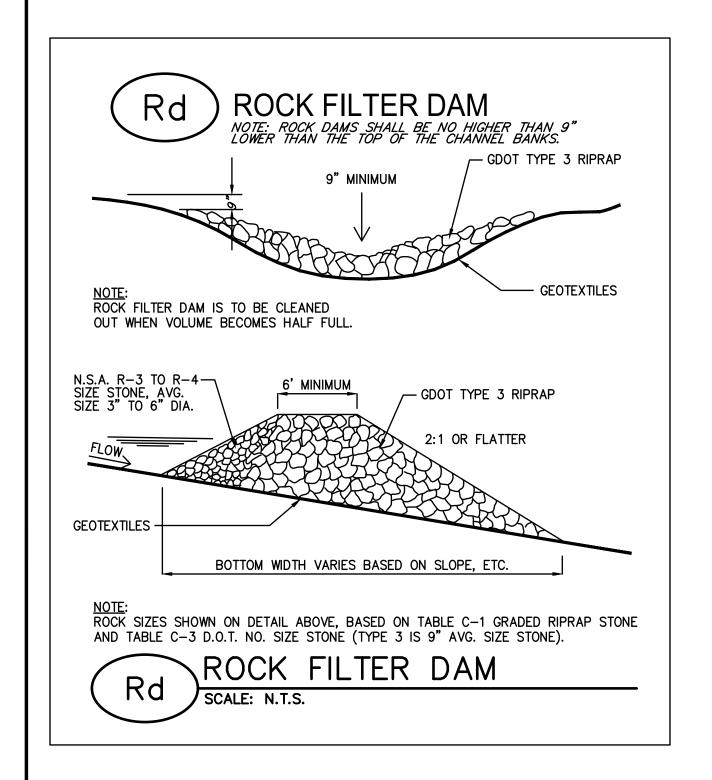
0 42016-C-207













PRIMARY PERMITTEE

OWNER:
CITY OF TUCKER
PAKS AND RECREATION DEPT.
4898 LAVISTA RD, TUCKER, GA 30084
CONTACT: RIP ROBERTSON, DIRECTOR
PHONE: (470) 481-0205
EMAIL: rrobertson@tuckerga.gov

24 HR. CONTACT PERSON

RIP ROBERTSON (470) 481-0205

							T
							1
							1
							1
							_
							_
NO.	RE∨ISIONS	MADE	CKD.	DATE	DRAWING NO.	REFERENCE DRAWINGS	

ORG COREGISTERES + No. 30441 + PROFESSIONAL CORGINEE AGREE F. RAPR F. RAPR
06/19/2024

SCALE: AS SHE	JWN	DATE
DESIGN BY: JR	/JH	01/23
DRAWN BY: JH	/EC	01/23
снескей ву: Ј	R	01/23
CDA: PEF 000707	EXP: 06/	30/2024
JASON RAPPLEAN, F LEVEL 2 CERTIFIC EXPIRATION DATE:	ATION # _	3031 12/07/26

JOHNS HOMESTEAD PARK EROSION CONTROL EROSION CONTROL DETAILS 3



WALDEN, ASHWORTH & ASSOCIATES, INC.

CONSULTING ENGINEERS
P.O. BOX 6462
MARIETTA, GEORGIA 30065
(770) 956 - 7879

CITY OF TUCKER AND DEKALB COUNTY

42016-C-208

TMDL FOR JOHNS' HOMESTEAD WATERSHED IMPROVEMENT PROJECT GARO31300011206 SOUTH FORK PEACHTREE CREEK Johns' Homestead Watershed Improvement Project. The site is located on County-owned property off Law renceville Highway, approximately 0.5 miles east of I 285. Entry to the project is via Johns Road/Stapp Drive behind Reboboth Baptist Church. Future plans for the site include a walkway by the PATH Foundation through the site with a wetland boardwalk and improvements to park amenities centered around the old Johns'home and other remaining buildings. Existing Conditions. Johns Homestead is a 48 acre tract of land and contains two lakes, one immediately below the other, totaling approximately 7 acres in size in the middle of the site. Approximately 100 acres flows into the upper lake. A 24" pipe originally drained from the upper lake to the lower lake. The pipe has failed and now the flow is diverted around the eastern edge of the lower lake. An additional drainage area of approximately 125 acres joins the flow that is diverted around the edge of the lower lake. Only high flows overtop the upper end of the diversion and flow into the lower lake (See Figure 1). The outlet control structure (OCS), a vertical 24-inch corrugated metal pipe (CMP), is partially filled with de bris. The outfall from the lake is a corroded 12-inch CMP that needs replacement. The lake also has a 12-inch rein forced concrete pipe (RCP) that serves as an emergency spillway. The downstream end of this pipe has a moderate erosion issue. Proposed Conditions. The outlet pipe from the upper diversion will be filled and an emergency spillway dis charging into the lower lake will be upstream end of the lower lake to keep low flows from

lake to the lower lake will be enlarged to a 36 pipe and the constructed. Structural control devices will be utilized at the the 125-acre basin dis charging in to the stream, but the majority of the water will flow into the lower lake with the discharge from the upper lake.

Improvements to the lower lake outfall are also planned. The improvements included a new wave wall, a larger OCS with a 72" outfall pipe. In addition, an emergency spillway will be graded to allow for relief of larger rainfalls.

IMPLEMENTATION OF GARO300011206 (John's Homestead Park) UPPER and LOWER LAKES Watershed Improvement Project.

- 1. Both the upper and lower lake's dams are being renovated, with new control structures that are capable of preventing overtopping and also reduce the erosive velocities of the runoff as it re-enters the stream (below the lower lake).
- 2. The side channel spillway that bypassed the two lakes, will be filled in and the runoff will enter the upper lake. This will protect the adjacent sanitary sewer line and help prevent contamination of the surface runoff.
- 3. The dams are designed for not only the 2-100 yr storm events, but also the AMC-3 Design Storm for both dams.

EROSION, SEDIMENTATION & POLLUTION CONTROL PLAN CHECKLIST INFRASTRUCTURE CONSTRUCTION PROJECTS

Dekalb Co SWCD Address: Dams at End of Stapp Drive and Zemory Drive

Project Name: ____ Twin Brothers Dam Renovation City/County:_____ City of Tucker Date on Plans: 7-Jul-23

Name & email of person filling out checklist:_ <u>jmhardin@waldenashworth.com</u>

	mciadea	TO BE SHOWN ON ES&PC PLAN
#	Y/N	TO DE STIDIVITOR ESCRICTENT
8	Υ	1 The applicable Erosion, Sedimentation and Pollution Control Plan Checklist established by the Commission as of January of the year in which the land-disturbing activity was permitted. (The completed Checklist must be submitted with the ES&PC Plan or the Plan will not be reviewed)
L	Υ	2 Level II certification number issued by the Commission, signature and seal of the certified design professional. (Signature, seal and level II number must be on each sheet pertaining to ES&PC Plan or the Plan will not be reviewed)

3 The name and phone number of the 24-hour contact responsible for erosion, sedimentation and pollution controls.

4 Provide the name, address, email address, and phone number of primary permittee. 200 Y 203 Y 5 Note total and disturbed acreages of the project or phase under construction. 6 Provide the GPS locations of the beginning and end of the Infrastructure project. Give the Latitude and Longitude in

7 Initial date of the Plan and the dates of any revisions made to the Plan including the entity who requested the revisions. 8 Descriptions of the nature of construction activity and existing site conditions.

9 Provide vicinity map showing site's relation to surrounding areas. Include designation of specific phase, if necessary. 10 Identify the project receiving waters and describe all sensitive adjacent areas including streams, lakes, residential areas, wetlands, marshlands, etc. which may be affected.

200 Y 11 Design professional's certification statement and signature that the site was visited prior to development of the ES&PC Plan as stated on Part IV page 21 of the permit. 200 Y 12 Design professional's certification statement and signature that the permittee's ES&PC Plan provides for an appropriate and comprehensive system of BMPs and sampling to meet permit requirements as stated on Part IV page 20 of the permit. *

13 Design professional certification statement and signature that the permittee's ES&PC Plan provides for representative sampling as stated on Part IV.D.6.c.(3) page 37 of the permit as applicable. * 14 Clearly note the statement that "The design professional who prepared the ES&PC Plan is to inspect the installation of the initial sediment storage requirements, perimeter control BMPs, and sediment basins within 7 days after installation."

in accordance with Part IV.A.5 page 26 of the permit * 15 Clearly note the statement that "Non-exempt activities shall not be conducted within the 25 or 50-foot undisturbed stream buffers as measured from the point of wrested vegetation or within 25-feet of the coastal marshland buffer as measured

from the Jurisdictional Determination Line without first acquiring the necessary variances and permits." 202 Y 16 Provide a description of any buffer encroachments and indicate whether a buffer variance is required. 202-4 Y 7 Clearly note the statement that "Amendments/revisions to the ES&PC Plan which have a significant effect on BMPs with a

hydraulic component must be certified by the design professional." * 18 Clearly note the statement that "Waste materials shall not be discharged to waters of the State, except as authorized by a 202-4 Y

19 Clearly note statement that "The escape of sediment from the site shall be prevented by the installation of erosion and sediment control measures and practices prior to land disturbing activities." 20 Clearly note statement that "Erosion control measures will be maintained at all times. If full implementation of the approved Plan does not provide for effective erosion control, additional erosion and sediment control measures shall be implemented

to control or treat the sediment source. 202-4 Y 21 Clearly note the statement "Any disturbed area left exposed for a period greater than 14 days shall be stabilized with mulch or temporary seeding."

22 Any construction activity which discharges storm water into an Impaired Stream Segment, or within 1 linear mile upstream of and within the same watershed as, any portion of a Biota Impaired Stream Segment must comply with Part III. C. of the permit. Include the completed Appendix 1 listing all the BMPs that will be used for those areas of the site which discharge to the Impaired Stream Segment. *

208 Y 23 If a TMDL Implementation Plan for sediment has been finalized for the Impaired Stream Segment (identified in item 22 above) at least six months prior to submittal of NOI, the ES&PC Plan must address any site-specific conditions or requirements included in the TMDL Implementation Plan.

24 BMPs for concrete washdown of tools, concrete mixer chutes, hoppers and the rear of the vehicles. Washout of the drum

200 y 25 Provide BMPs for the remediation of all petroleum spills and leaks.

200 Y 26 Description of the measures that will be installed during the constru 26 Description of the measures that will be installed during the construction process to control pollutants in storm water that will occur after construction operations have been completed. *

27 Description of practices to provide cover for building materials and building products on site. * 28 Description of the practices that will be used to reduce the pollutants in storm water discharges. *

29 Description and chart or timeline of the intended sequence of major activities which disturb soils for the major portions of the site (i.e., initial perimeter and sediment storage BMPs, clearing and grubbing activities, excavation activities, utility activities, temporary and final stabilization).

30 Provide complete requirements of Inspections and record keeping by the primary permittee. 31 Provide complete requirements of Sampling Frequency and Reporting of sampling results. *

32 Provide complete details for Retention of Records as per Part IV.F. of the permit. *

33 Description of analytical methods to be used to collect and analyze the samples from each location. 1 34 Appendix B rationale for NTU values at all outfall sampling points where applicable. *

200 Y 35 Delineate all sampling locations, perennial and intermittent streams and other water bodies into which storm water is discharged also provide a summary chart of the justification and analysis for the representative sampling as applicable. * 200 Y 36 A description of appropriate controls and measures that will be implemented at the construction site including: (1) initial sediment storage requirements and perimeter control BMPs, (2) intermediate grading and drainage BMPs, and (3) final BMPs. For construction sites where there will be no mass grading and the initial perimeter control BMPs, intermediate grading and drainage BMPs, and final BMPs are the same, the Plan may combine all of the BMPs into a single

202-4 Y 37 Graphic scale and North arrow.

38 Existing and proposed contour lines with contour lines drawn at an interval in accordance with the following:

Existing Contours USGS 1": 2000' Topographical Sheets Proposed Contours | 1": 400' Centerline Profile

39 Use of alternative BMPs whose performance has been documented to be equivalent to or superior to conventional BMPs as certified by a Design Professional (unless disapproved by GAEPD or the Georgia Soil and Water Conservation Commission). Please refer to the Alternative BMP Guidance Document found at www.gaswcc.georgia.gov

N/A N 40 Use of alternative BMP for application to the Equivalent BMP List. Please refer to Appendix A-2 of the Manual for Erosion & Sediment Control in Georgia 2016 Edition. *

41 Delineation of the applicable 25-foot or 50-foot undisturbed buffers adjacent to State waters and any additional buffers required by the Local Issuing Authority. Clearly note and delineate all areas of impact. 42 Delineation of on-site wetlands and all State waters located on and within 200 feet of the project site 43 Delineation and acreage of contributing drainage basins on the project site. 200 Y

200 Y 44 Delineate on-site drainage and off-site watersheds using USGS 1":2000' topographical sheets. 45 An estimate of the runoff coefficient or peak discharge flow of the site prior to and after construction activities are

46 Storm-drain pipe and weir velocities with appropriate outlet protection to accommodate discharges without erosion. Identify/Delineate all storm water discharge points.

47 Soil series for the project site and their delineation. 48 The limits of disturbance for each phase of construction Υ

49 Provide a minimum of 67 cubic yards of sediment storage per acre drained using a temporary sediment basin

retrofitted detention pond, and/or excavated inlet sediment traps for each common drainage location. Sediment storage volume must be in place prior to and during all land disturbance activities until final stabilization of the site has been achieved. A written justification explaining the decision to use equivalent controls when a sediment basin is not attainable must be included in the Plan for each common drainage location in which a sediment basin is not provided. A written justification as to why 67 cubic yards of storage is not attainable must also be given. Worksheets from the Manual must be included for structural BMPs and all calculations used by the design professional to obtain the required sediment storage when using equivalent controls. When discharging from sediment basins and impoundments, permittees are required to utilize outlet structures that withdraw water from the surface, unless infeasible. If outlet structures that withdraw water from the surface are not feasible, a written justification explaining this decision must be included in the Plan.

50 Location of Best Management Practices that are consistent with and no less stringent than the Manual for Erosion and Sediment Control in Georgia. Use uniform coding symbols from the Manual, Chapter 6, with legend. 205-7 Y 51 Provide detailed drawings for all structural practices. Specifications must, at a minimum, meet the guidelines set forth in

the Manual for Erosion and Sediment Control in Georgia. 52 Provide vegetative plan, noting all temporary and permanent vegetative practices. Include species, planting dates and seeding, fertilizer, lime and mulching rates. Vegetative plan shall be site specific for appropriate time of year that seeding will take place and for the appropriate geographic region of Georgia.

> * If using this checklist for a project that is less than 1 acre and not part of a common development but within 200 ft of a perennial stream, the * checklist items would be N/A.

Effective January 1, 2023



OWNER: CITY OF TUCKER

COPYRIGHT © 2023, WALDEN, ASHWORTH & ASSOCIATES, INC., ALL RIGHTS RESERVED

PAKS AND RECREATION DEPT. 4898 LAVISTA RD, TUCKER, GA 30084 CONTACT: RIP ROBERTSON, DIRECTOR PHONE: (470) 481-0205 EMAIL: rrobertson@tuckerga.gov

PRIMARY PERMITTEE

24 HR. CONTACT PERSON

RIP ROBERTSON (470) 481-0205

ND.	REVISIONS	MADE	CKD.	DATE	DRAWING NO.	REFERENCE DRAWINGS	1
							(9)
							/



SCALE: AS	SHDWN	DATE
DESIGN BY:	JR/JH	01/23
DRAWN BY:	JH/EC	01/23
CHECKED BY:	JR	01/23
COA: PEF 00	0707 EXP	06/30/2024

JASON RAPPLEAN, PE, EOR LEVEL 2 CERTIFICATION # 3031

JOHNS HOMESTEAD PARK **EROSION CONTROL EROSION CONTROL CHECKLIST AND TMDL**

CITY OF TUCKER AND DEKALB COUNTY



WALDEN, ASHWORTH & ASSOCIATES, INC.

CONSULTING ENGINEERS P.O. BOX 6462 MARIETTA, GEORGIA 30065 (770) 956 - 7879

42016-C-209