

GENERAL NOTES

ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE FOLLOWING STANDARDS:

- A) NORTH CAROLINA DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES, DATED JANUARY 2018, AND ANY SUPPLEMENTS THERETO ISSUED PRIOR TO THE DATE OF RECEIPT OF BIDS.
- B) NORTH CAROLINA DEPARTMENT OF TRANSPORTATION "ROADWAY STANDARD DRAWINGS, ENGLISH" DATED JANUARY 2018, AND ANY SUPPLEMENTS ISSUED THERETO PRIOR TO THE DATE OF RECEIPT OF BIDS.

ALL RIGHT OF WAY CORNER MARKERS OR FENCING SHALL BE PLACED BY OTHERS AS NECESSARY.

THE CONTRACTOR IS RESPONSIBLE FOR AVOIDING ANY DISTURBANCE OR DAMAGE TO EXISTING UTILITIES AND SHALL BE RESPONSIBLE FOR IMMEDIATELY REPAIRING ANY DAMAGES AT A COST INCIDENT TO THIS CONTRACT.

ABANDONED SECTIONS OF THE EXISTING CHANNEL SHALL BE FILLED TO THE MAXIMUM EXTENT FEASIBLE WITH MATERIAL EXCAVATED ON-SITE. THIS EXCAVATED MATERIAL SHALL BE STOCKPILED ADJACENT TO THE REACHES OF CHANNEL OR DITCHES TO BE BACKFILLED.

THE PROPOSED STREAM RELOCATION SHALL BE CONSTRUCTED IN ACCORDANCE TO THE PROPOSED TYPICAL SECTIONS AND PROFILES, IN CONFORMANCE WITH THE PLANS.

SUBSURFACE PLANS: NO SUBSURFACE PLANS ARE AVAILABLE ON THE PROJECT. THE CONTRACTOR SHOULD MAKE HIS OWN INVESTIGATION AS TO THE SUBSURFACE CONDITIONS.

THE PRIME CONTRACTOR AND/OR SUBCONTRACTOR(S) SHALL BE PREQUALIFIED IN THE WORK CODE "1601" STREAM RESTORATION AND CONSTRUCTION, FOR WHICH THEY IDENTIFY AS WORK ITEMS IN THE PRIME CONTRACTOR'S CONSTRUCTION PROGRESS SCHEDULE THAT THEY WILL COMPLETE THEMSELVES. ANY CONTRACTOR IDENTIFIED AS WORKING OUTSIDE THEIR EXPERTISE MAY BE CONSIDERED IN DEFAULT OF THE CONTRACT. THIS WORK INCLUDES ALL FLOODPLAIN EXCAVATION, STREAM EXCAVATION, IN-STREAM STRUCTURES, STREAM FEATURES AND STABILIZATION EFFORTS (I.E. COIR FIBER MATTING, SEEDING, MULCHING, ETC.).

ROADWAY STANDARD DRAWINGS

(REV. JANUARY 2018)

THE FOLLOWING ROADWAY STANDARDS AS APPEAR IN "ROADWAY STANDARD DRAWINGS" - ROADWAY DESIGN UNIT - N.C. DEPARTMENT OF TRANSPORTATION - RALEIGH, N.C., DATED JANUARY 2018 AND THE LATEST REVISION THERETO ARE APPLICABLE TO THIS PROJECT AND BY REFERENCE HEREBY ARE CONSIDERED A PART OF THESE PLANS:

CONSTRUCTION SEQUENCING

THIS STREAM RELOCATION PROJECT CONSISTS OF TWO REACHES (1 & 2) INCLUSIVE OF MULTIPLE DESIGNED SUB REACHES(1A,1B,1ATRIB,1BTRIB,2A,2B,2C). ONCE WORK BEGINS ON A STREAM REACH, THE CONTRACTOR MUST COMPLETE THAT REACH BEFORE MOVING WORK CREWS AND EQUIPMENT TO A DIFFERENT REACH, UNLESS APPROVED TO DO SO BY THE ENGINEER.

PERFORM STAKEOUT SURVEY FOR THE PROPOSED STREAM CHANNEL, CONSTRUCTION EASEMENT LIMITS, AND GRADE STAKES. THE ENGINEER MUST INSPECT AND APPROVE ALL STAKEOUT WORK BEFORE CONSTRUCTION MAY BEGIN.

MOBILIZE EQUIPMENT AND MATERIALS TO THE SITE.

INSTALL CONSTRUCTION ENTRANCE PER EROSION CONTROL PLAN.(REFER TO ROADWAY CONSTRUCTION DRAWINGS)

ESTABLISH STAGING AREAS AND MARK CONSTRUCTION EQUIPMENT ACCESS LOCATIONS WITH VISIBLE MARKERS. CONSTRUCTION EQUIPMENT SHALL BE CONTAINED WITHIN THE LIMITS OF CONSTRUCTION AS DEPICTED IN THE PLANS OR SPECIFIED BY THE ENGINEER.

INSTALL TEMPORARY EROSION CONTROL MEASURES.

BEGIN FLOODPLAIN GRADING, INCLUDING EXCAVATION OF BANKFULL BENCHES AT LOCATIONS DEPICTED IN THE PLANS AND AS DIRECTED BY THE ENGINEER. STOCKPILE MATERIALS ONLY WITHIN APPROVED LIMITS OF DISTURBANCE AS DESIGNATED ON THE EROSION CONTROL PLANS(REFER TO ROADWAY CONSTRUCTION DRAWINGS). KEEP TOPSOIL SEPARATE FROM OTHER STOCKPILE MATERIAL FOR LATER USE IN FLOODPLAIN. FINISH GRADING AND REVEGETATION PREPARATION.

TOPSOIL SHALL BE EXCAVATED AND STOCKPILED SEPARATELY FROM THE WASTE MATERIAL SO THAT IT CAN BE PLACED BACK ON THE FLOODPLAIN ONCE GRADING IS COMPLETE. NO DIRECT PAYMENT WILL BE MADE FOR THIS EXCAVATION. OVER-EXCAVATE FLOODPLAIN AND FLOODPLAIN SLOPES TO A DEPTH OF 6" BELOW FINAL GRADE AND PLACE 6" OF TOPSOIL TO FILL TO FINAL GRADE. OVER-EXCAVATION SHOULD BEGIN 3' FROM TOP OF BANK AND EXTEND TO EXCAVATION LIMITS. SEE TYPICAL SECTIONS FOR DETAIL. INSTALL IMPERVIOUS DIKES AND PUMP AROUND SYSTEM TO PUMP STREAM DISCHARGE AROUND THE IMMEDIATE WORK AREA AS NECESSARY.

CONSTRUCTION SHALL PROCEED IN SUCCESSIVE REACHES WITH THE UPSTREAM REACH BEING COMPLETED PRIOR TO INITIATING CONSTRUCTION OF THE ADJACENT DOWNSTREAM REACH. EACH REACH SHALL BE LIMITED IN LENGTH TO WORK THAT CAN BE COMPLETED BEFORE ALLOWING WATER TO FLOW THROUGH THAT REACH. COMPLETION OF A REACH SHALL CONSIST OF CHANNEL CONSTRUCTION, FLOODPLAIN GRADING, IN-STREAM STRUCTURE INSTALLATION, BED MATERIAL INSTALLATION, AND EROSION CONTROL MEASURES. CONSTRUCTION SHALL BE DONE IN THE DRY, WITH THE CHANNEL FLOW PUMPED AROUND THE DEWATERED REACH UNDER CONSTRUCTION AS NECESSARY.

AT THE END OF EACH DAY'S CONSTRUCTION WORK, THE CONTRACTOR SHALL SEED ALL DISTURBED AREAS AND COVER THE STREAM BANKS AND BANKFULL BENCHES WITH COIR FIBER MATTING TO THE EXTENT AS SHOWN ON PLANS. IN ADDITION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ALL TEMPORARY EROSION CONTROL MEASURES ON A DAILY BASIS THROUGHOUT THE CONSTRUCTION PROCESS.

ONCE NEW CHANNEL CONSTRUCTION IS COMPLETE, THE CONTRACTOR SHALL INSTALL STREAM PLUGS TO DIRECT STREAM FLOW INTO THE NEW CHANNEL. THE CONTRACTOR SHALL THEN FILL IN THE ABANDONED SECTIONS OF THE EXISTING CHANNEL TO THE EXTENT FEASIBLE AND AS DIRECTED BY THE ENGINEER. CONTRACTOR WILL ENSURE THAT EITHER 1) VEGETATION HAS BEEN ESTABLISHED ALONG THE BANKS OF THE NEW STREAM CHANNEL OR 2)BANKS HAVE BEEN FULLY MATTED,STEAKEED AND PLANTED PER VEGETATION PLAN. FOR NEW STREAM CHANNEL REACHES WHERE THIS IS NOT POSSIBLE, THE CONTRACTOR SHOULD GET APPROVAL FROM THE ENGINEER BEFORE DIRECTING FLOW INTO THE NEW STREAM CHANNEL.

AFTER ALL IN-STREAM WORK IS COMPLETED, THE CONTRACTOR SHALL REMOVE TEMPORARY EROSION CONTROL MEASURES AND TEMPORARY STREAM ACCESS PER EROSION CONTROL PLAN (REFER TO ROADWAY CONSTRUCTION DRAWINGS). SCARIFY ANY COMPACTED AREAS AS DIRECTED BY THE ENGINEER. ALL PORTIONS OF THE SITE SHALL BE STABILIZED WITH TEMPORARY EROSION CONTROL MEASURES.

R-2707D
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PROJECT REFERENCE NO.	SHEET NO.
R-2707D	NS-1A



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STREAM SYMBOLS

PLAN VIEW SYMBOLS

	LOG VANE WITH ROCK J-HOOK		CONSTRUCTED RIFFLE
	BRUSH TOE		STREAM PLUG
	STREAM PLUG		BACKFILL EXISTING CHANNEL
	ROCK CROSS VANE		FLOODPLAIN LINE

PROFILE SYMBOLS

	EXISTING GROUND ELEVATION		ROCK CROSS VANE
	PROPOSED GROUND ELEVATION		
	PROPOSED BANKFULL		
	LOG VANE WITH ROCK J-HOOK		
	CONSTRUCTED RIFFLE		

PLANTING SYMBOLS

	TYPE I -STREAMBANK REFORESTATION
	TYPE II - STREAMBANK REFORESTATION
	REFORESTATION