FOUNDATION RECOMMENDATIONS

Prepared for NCDOT by: Stewart

PROJECT	17BP.6.R.103	DESCRIPTION	Bridge No. 151 on SR 1415 (Rawls		
TIP NO.	SF-420151	Church Road) over	Church Road) over Hector's Creek		
COUNTY	Harnett				
STATION	17+37.00 -L-	_			

	INITIALS	DATE		
DESIGN	CT	7/26/18		
CHECK	DB	8/1/18		
APPROVAL				



	STATION	FOUNDATION TYPE	FACTORED RESISTANCE	ADDITIONAL INFORMATION
END BENT 1	16+85.88 -L-	Cap on HP 12 x 53 Steel H-Piles	115 Tons/Pile	Bottom of Cap Elev. = 249.5 ft± Average Estimated Pile Length = 15 ft Number of Piles/Cap = 7
END BENT 2	17+88.13 -L-	Cap on HP 12 x 53 Steel H-Piles	115 Tons/Pile	Bottom of Cap Elev. = 250.0 ft± Average Estimated Pile Length = 15 ft Number of Piles/Cap = 7

(SEE NOTES ON PLANS AND COMMENTS ON FOLLOWING PAGES.)

Bridge No. 151 on SR 1415 (Rawls Church Road) over Hector's Creek

Harnett County

FOUNDATION RECOMMENDATIONS NOTES ON PLANS

- 1. FOR PILES, SEE SECTION 450 OF THE STANDARD SPECIFICATIONS.
- 2. PILES AT END BENT NO. 1 AND END BENT NO. 2 ARE DESIGNED FOR A FACTORED RESISTANCE OF 115 TONS PER PILE.
- 3. DRIVE PILES AT END BENT NO. 1 AND END BENT NO. 2 TO A REQUIRED DRIVING RESISTANCE OF 195 TONS PER PILE.
- 4. STEEL H-PILE POINTS ARE REQUIRED FOR STEEL H-PILES AT END BENT NO. 1 AND END BENT NO. 2. FOR STEEL PILE POINTS, SEE SECTION 450 OF THE STANDARD SPECIFICATIONS.

FOUNDATION RECOMMENDATIONS COMMENTS

- 1. A SINGLE ROW WITH 5 PLUMB AND 2 BRACED PILES IS PLANNED FOR END BENT NO. 1 AND END BENT NO. 2.
- 2. END BENT SLOPES OF 1.5H:1V ARE SATISFACTORY WITH SLOPE PROTECTION.
- 3. NO WAITING PERIOD IS REQUIRED FOR END BENT CONSTRUCTION AFTER COMPLETION OF EMBANKMENT.
- 4. USE TYPE II MODIFIED BRIDGE APPROACH DETAIL.
- 5. PILE REDRIVES NOT REQUIRED FOR END BENT NO. 1 AND END BENT NO. 2.

PILE PAY ITEMS

(Revised 8/11/15)

WBS ELEMENT_	17BP.6.R.103	DATE	8/1/2018
TIP NO.	SF-420151	DESIGNED BY	CT
COUNTY	Harnett	CHECKED BY	DB
STATION	17+37.00 -L-	_	
DESCRIPTION	Bridge No. 151 on SR 1415 (Rawls	Church Rd.) over Hector's Cre	ek
NUMBER OF	R OF BENTS WITH PILES BER OF PILES PER BENT END BENTS WITH PILES OF PILES PER END BENT	Only required for "Predrilling for Piles" & "Pile Excavation" pay items	

	PILE PAY ITEM QUANTITIES						
]	Pile	
	Steel				Exc	avation	
	Pile	Pipe Pile	Predrilling	Pile	(per l	inear ft)	PDA
Bent # or	Points	Plates	For Piles	Redrives	In	Not In	Testing
End Bent #	(yes/no)	(yes/no/maybe)	(per linear ft)	(per each)	Soil	Soil	(per each)
END BENT #1	yes						
END BENT #2	yes						\ /
							\ /
							\/
							l X
							/ \
							/ \
							/ \
TOTALS			0	0	0	0	0

Notes:

Blanks or "no" represent quantity of zero.

If steel pile points are required, calculate quantity of "Steel Pile Points" as equal to the number of steel piles.

If pipe pile plates are or may be required, calculate the quantity of "Pipe Pile Plates" as equal to the number of pipe piles.

Show quantity of "PDA Testing" on the plans as total only.