SUMMARY OF PILE INFORMATION/INSTALLATION

(Blank entries indicate item is not applicable to structure)

End Bent/ Bent No, Pile(s) #-# (e.g., "Bent 1, Piles 1-5")	Factored Resistance per Pile TONS	Pile Cut-Off (Top of Pile) Elevation FT	Estimated Pile Length per Pile FT	Scour Critical Elevation FT	Driven Piles		Predrilling for Piles*			Drilled-In Piles			
					Min Pile Tip (Tip No Higher Than) Elev FT	Required Driving Resistance (RDR)** per Pile TONS	Total Pile Redrives Quantity EACH	Predrilling Length per Pile Lin FT	Predrilling Elevation (Elev Not To Predrill Below) FT	Maximum Predrilling Dia INCHES	Pile Excavation (Bottom of Hole) Elev FT	Pile Exc Not In Soil per Pile Lin FT	Pile Exc In Soil per Pile Lin FT
End Bent 1, Piles 1-26	120	180.02	90			160							
End Bent 2, Piles 19-24	120	179.26	95			190							
End Bent 2, Piles 1-18	120	179.26	95			160	90						
Bent 1, Piles 1-63	160	159.48	90			215]						

*Predrilling for Piles is required for end bents/bents with a predrilling length and at the Contractor's option for end bents/bents with predrilling information but no predrilling length. $= \frac{Factored \,Resistance + \,Factored \,Downdrag \,Load + Factored \,Dead \,Load}{Factored \,Resistance} + Nominal \,Downdrag \,Resistance + \frac{Nominal \,Scour \,Resistance \,Resistanc$ Nominal Scour Resistance ***RDR* =

PILE DESIGN INFORMATION

(Blank entries indicate item is not applicable to structure)

End Bent/ Bent No, Pile(s) #-# (e.g., "Bent 1, Piles 1-5")	Factored Axial Load per Pile TONS	Factored Downdrag Load per Pile TONS	Factored Dead Load* per Pile TONS	Dynamic Resistance Factor	Nominal Downdrag Resistance per Pile TONS	Nominal Scour Resistance per Pile TONS	Scour Resistance Factor (Default = 1.00)
End Bent 1, Piles 1-26	120			0.75			
End Bent 2, Piles 19-24	120	14		0.75			
End Bent 2, Piles 1-18	120			0.75			
Bent 1, Piles 1-63	160			0.75			

*Factored Dead Load is factored weight of pile above the ground line.

NOTES:

1. The Pile Foundation Tables are based on the bridge substructure design and foundation recommendations sealed by a North Carolina Professional Engineer (Stephen C. Crockett, 048207) on 12/16/21. 2. Total Pile Driving Equipment Setup quantity (not shown in Pile Foundation Tables) equals the number of driven piles, i.e., the number of piles with a Required Driving Resistance.

3. The Engineer will determine the need for PDA Testing when PDAs may be required.

*EST = Pile order lengths from estimated pile lengths; PDA = Pile order lengths based on PDA testing. For groups of end bents/bents with pile order lengths based on PDA testing, the first end bent/bent no. listed for each group is the representative end bent/bent with the PDA.

Р	ile Driving Analyz	Pile Order Lengths			
End Bent/ Bent No	PDA Testing Required? YES or MAYBE	PDA Test Pile Length FT	Total PDA Testing Quantity EACH	End Bent/ Bent No(s)	Pile Order Length Basis* EST or PDA
End Bent 1	YES	95			
End Bent 2	YES	100	4		
Bent 1	YES	90			

SUMMARY OF PDA/PILE ORDER LENGTHS

(Blank entries indicate item is not applicable to structure)

	PROJECT NO.	PROJECT NO. I-5987B								
	ROE	ROBESON								
	STATION: <u>-L</u>	STATION:								
	SHEET 3 OF 5	SHEET 3 OF 5								
DocuSigned by: L. Kevin Austin 4/22/20	FC	<section-header></section-header>								
72F751GNATORE DAT		REVISIONS SHEET NO. S6- 3								
DOCUMENT NOT CONSID FINAL UNLESS ALL SIGNATURES COMPLET	1	NO. BY: 3 4	DATE:	TOTAL SHEETS 53						