#### SUMMARY OF PILE INFORMATION/INSTALLATION

(Blank entries indicate item is not applicable to structure)

Find Bonti					Driven Piles		Predrilling for Piles*			Drilled-In Piles			
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 Lenth per Pile FT	Scour Critical Elevation FT	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 1-7	126	296.46	30			210							
End Bent 2, Piles 1-7	126	298.88	25			210							

<sup>\*</sup>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.

## 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 1-7	126			0.60			
End Bent 2, Piles 1-7	126			0.60			

<sup>\*</sup>Factored Dead Load is factored weight of pile above the ground line.

## SUMMARY OF DRILLED PIER INFORMATION/INSTALLATION

(Blank entries indicate item is not applicable to structure)

		FT	TSF	FT	Rock per Pier Lin FT	Length per Pier Lin FT	Not In Soil per Pier Lin FT	In Soil per Pier Lin FT	Casing Required? YES or MAYBE	(Elev Not To Extend Casing Below) FT	Casing Length* per Pier Lin FT
Bent 1, Piers 1-3	650	246.0	15	265	6.0		16.7	10.1	Yes	268.1	4.7
Bent 2, Piers 1-3	650	246.0	50	262	6.0		16.3	10.5	Yes	265.4	7.4
	<u> </u>					<u> </u>	<u> </u>				
TOTAL QTY:							99	62			37

<sup>\*</sup>Permanent Steel Casing Length equals the difference between the ground line or top of drilled pier elevation, whichever is higher, and the permanent casing tip elevation.

## SUIMMARY OF PIDA/PILLE ORDER LENGTHS

(Blank entries indicate item is not applicable to structure)

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				
End Bent 2	Yes		]		
			2		

<sup>\*</sup>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.

#### SUMMARY OF PILE ACCESSORIES

(Blank entries indicate item is not applicable to structure)

End Donti	Dino Dilo	s				
End Bent/ Bent No, Pile(s) #-# (e.g., "Bent 1, Piles 1-5")	Pipe Pile Plates Required? YES or MAYBE	Pipe Pile Cutting Shoes Required? YES	Pipe Pile Conical Points Required? YES	H-Pile Points Required? YES	Steel Pile Tips Required? YES	
End Bent 1, Piles 1-7				Yes		
End Bent 2, Piles 1-7				Yes		
TOTAL OTY				4.4		
TOTAL QTY:				14		

## SUIMMARY OF IDRILLED PIER TESTING

(Blank entries indicate item is not applicable to structure)

End Bent/ Bent No, Pier(s) #-# (e.g., "Bent 1, Piers 1-3")	Standard Penetration Test (SPT) Required? YES or MAYBE	Crosshole Sonic Logging (CSL) Required?* YES or MAYBE	Total CSL Tube Length (For All Tubes) per Pier Lin FT	Shaft Inspection Device (SID) Required? YES or MAYBE	Pile Integrity Test (PIT) Required MAYBE
Bent 1, Piers 1-3		Maybe	114	Maybe	
Bent 2, Piers 1-3		Maybe	114	Maybe	
TOTAL QTY:		1	684	1	

\*CSL Tubes are required if CSL Testing is or may be required. The number of CSL Tubes per drilled pier is equal to one tube per foot of design pier diameter with at least 4 tubes per pier. The length of each CSL Tube is equal to the drilled pier length plus 1.5 ft.

PROJECT NO.	67063.1.1	(BR-0063)
	Anson	COUNTY
STATION:	STA. 20+1	5.00 -L-

# NOTES:

- 1. The Pile and Drilled Pier Foundation Tables are based on the bridge substructure design and foundation recommendations sealed by a North Carolina Professional Engineer (Yinhui Liu, PE # 034020) on 8-17-2023.
- 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, CSL Testing, and SID Inspections when these items may be required.

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SIGNATURE	DATE		ı
		NO	•

SIGNATURES COMPLETED

STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

PILE AND DRILLED PIER FOUNDATION **TABLES** 

SHEET NO.

**TOTAL** SHEETS

	10/2/2024							
SIGNATURE	DATE	REVISIONS						
DOCUMENT NOT CONSIDERED		NO.	BY:	DATE:	NO.	BY:	DATE:	
FINAL UNLESS ALL		1	_		3			

Factored Resistance + Factored Downdrag Load + Factored Dead Load + Nominal Downdrag Resistance + Nominal Scour Resistance Factor Nominal Scour Resistance