

(Blank entries indicate item is not applicable to structure)

[illegible]

$$^* RDR = \frac{\text{Factored Resistance} + \text{Factored Drag Load} + \text{Factored Dead Load}}{\text{Dynamic Resistance Factor}} + \text{Nominal Drag Load Resistance} + \text{Nominal Resistance from Scourable Material}$$

**\*\* 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.**

(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 KIPS	Factored Drag Load per Pile KIPS	Factored Dead Load * per Pile KIPS	Dynamic Resistance Factor	Nominal Drag Resistance per Pile KIPS	Nominal Scour Resistance per Pile KIPS
End Bent 1, Piles 1-7	134			0.6		
End Bent 2, Piles 1-7	122			0.6		

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

(Blank entries indicate item is not applicable to structure)

End Bent / Bent No, Pier(s) #(-#) (e.g., "Bent 1, Piers 1-3")	Number of Piers per Line	Factored Resistance per Pier KIPS	Required Drilled Pier Tip Elevation FT	Required Tip Resistance per Pier KSF	Scour Critical Elevation FT	Minimum Drilled Pier Penetration Into Rock per Pier LIN FT	Drilled Pier Length* per Pier LIN FT	Drilled Pier Length Not In Soil* per Pier LIN FT	Drilled Pier Length In Soil* per Pier LIN FT	Permanent Steel Casing Required? YES	Permanent Steel Casing Tip Elevation (Elevation Not To Extend Casing Below) FT	Permanent Steel Casing Length** per Pier LIN FT
Bent 1, Piers 1-3	3	850	2090	40	2120			23	26	Yes	2122	17
Bent 2, Piers 1-3	3	850	2090	40	2126			19	30	Yes	2128	11
<b>TOTAL QUANTITY:</b>								126	168			84

\* Drilled Pier Length, Drilled Pier Length Not in Soil and Drilled Pier Length in Soil represent estimated drilled pier quantities and are measured and paid for as either " Dia. Drilled Piers" or " Dia. Drilled Piers Not in Soil" and " Piers in Soil" in accordance with Article 411-7 of the NCDOT Standard Specifications. For bents with a not in soil pay item, drilled piers through air or water will be paid at the contracted unit price for " Dia. Drilled Piers in Soil."

\*\*\* 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 and is measured and paid for as "Permanent Steel Casing for \_\_\_\_ Dia. Drilled Pier" in accordance with Article 411-7 of the NCDOT Standard Specifications.

(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) EACH	Crosshole Sonic Logging (CSL) EACH	Sonic Caliper Testing (SCT) EACH	Shaft Inspection Device (SID) EACH	Pile Integrity Test (PIT) EACH
Bent 1, Piers 1-3	3	1	3	1	
Bent 2, Piers 1-3	3	1	3	1	
<b>TOTAL QUANTITY:</b>	6	2	6	2	

PROJECT NO. HB-0030

MACON COUNTY

STATION: 16+10.49 -L-

SHEET 3 OF 7

NOTES:

1. The Pile Foundation Tables are based on the bridge substructure design and foundation recommendations sealed by a North Carolina Professional Engineer (Joshua M. Jenkins, #050329) on 06-17-2025.
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 may adjust the quantity for DPT Testing, Pipe Pile Plates, Permanent Steel Casing, SPTs, TIPs, CSL Testing, SID Inspections and PITs when necessary.

DRAWN BY : G. DWIGHT LOFLIN DATE : 07-2025  
 CHECKED BY : LOGAN C. YARBROUGH DATE : 07-2025  
 DESIGN ENGINEER OF RECORD: LOGAN C. YARBROUGH DATE : 08-2025

**DOCUMENT NOT CONSIDERED FINAL  
UNLESS ALL SIGNATURES COMPLETED**

**DRMP**  
8210 UNIVERSITY EXECUTIVE  
PARK DRIVE SUITE 220,  
CHARLOTTE, NC 28262  
(704) 549-4260

NC LICENSE NO. F-1524

DRMP JOB NUMBER: 20-0464,031

Professional Engineer Seal for North Carolina, signed by Brian Yarborough, License No. 048958, dated 9/29/2025.

STATE OF NORTH CAROLINA  
DEPARTMENT OF TRANSPORTATION  
RALEIGH

# PILE AND DRILLED PIER FOUNDATION TABLES

REVISIONS						SHEET NO. S-03
NO.	BY:	DATE:	NO.	BY:	DATE:	
1			3			TOTAL SHEETS 26
2			4			