

FOUNDATION RECOMMENDATIONS

WBS 38368.1.2
 T.I.P. NO. B-4442
 COUNTY Buncombe
 STATION 315+72.39 -L-

DESCRIPTION Bridge Nos. 370&373 ON US 19/US 23/US 25/US 70/FUTURE I-26 over Reems Creek

	INITIALS	DATE
DESIGN	SY	4/21/22
CHECK	MHS	4/22/22
APPROVAL	SCC	05/04/2022



DocuSigned by:
Shipping Yang
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BENT	STATION	FOUNDATION TYPE	FACTORED RESISTANCE	MISCELLANEOUS & DETAILS
END BENT 1	STA. 313+81.25 -L-	Cap on HP 14x73 Steel Piles	144 tons/pile	Bottom of Cap El. = 2,031.8 ft ± Estimated Length of Pile = 25 ft (LT); 50 ft (CT); 50 ft (RT) Number of Piles = 28
BENT 1	STA. 315+36.25 -L-	60 inch Diameter Drilled Pier	745 tons/pier	Bottom of Cap Elev. = 2,031.0 ft (LT); 2,031.9 ft (CT); 2,031.1 ft (RT) Point of Fixity Elev. = 1,962.0 ft (LT); 1,962.0 ft (CT); 1,962.0 ft (RT) Tip No Higher Than Elev. = 1,955.0 ft (LT); 1,955.0 ft (CT); 1,955.0 ft (RT) Number of Drilled Piers =9
END BENT 2	STA. 316+71.25 -L-	Cap on HP 14x73 Steel Piles	135 tons/pile	Bottom of Cap El. = 2,033.2 ft ± Estimated Length of Pile = 50 ft (LT); 50 ft (CT); 45 ft (RT) Number of Piles = 28

NOTES ON PLANS & COMMENTS

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
HIGHWAY BUILDING
PO BOX 25201
RALEIGH, NORTH CAROLINA 27611

SUBJECT: Bridge Nos. 370&373 ON US 19/US 23/US
25/US 70/FUTURE I-26 over Reems Creek

PREPARED BY: SY

PROJECT: 38368.1.2

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FOUNDATION RECOMMENDATION NOTES ON PLANS

- 1) For piles, see Section 450 of the Standard Specifications.
- 2) For drilled piers, see Section 411 of the Standard Specifications.

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FOUNDATION RECOMMENDATION COMMENTS

- 1) Please advise Western Regional Office, if factored resistance is less than max. factored structure load.
- 2) PDA will not be used to monitor driving stresses.
- 3) No re-strikes are required.
- 4) End bent slopes of 1½:1 are ok with slope protection to berm and to 1½: 1.
- 5) Bridge approach Fill - Use Type I approach fill at End Bent No. 1. Alternate A for integral abutment can be used.
- 6) Bridge approach Fill - Use Type I approach fill at End Bent No. 2. Alternate A for integral abutment can be used.
- 7) Please send Western Regional Design Engineer a half size copy of the final general drawing sheets, including the location sketch, plan notes and quantities, at the time they are submitted to the plan checking & review squad.