

NOTES:

2. LAYOUT OF THE PILES SHALL BE BY THE GENERAL CONTRACTOR. MICROPILE LAYOUT IS BASED ON PILE LOCATION AT THE BOTTOM OF THE MICROPILE CAP. GENERAL CONTRACTOR SHALL LAY OUT PILES BASED ON DRILLING ELEVATION SUCH THAT THE MICROPILE LOCATION WILL BE AT THE PLANNED LOCATION AT THE BOTTOM OF THE PILE CAP. MATERIAL SPECIFICATIONS:

1. FOR MICROPILE USE TYPE 5 GROUT. SEE SECTION 1003 OF THE STANDARD SPECIFICATIONS.

2. PROVIDE STEEL PLATES THAT MEET ASTM A572 GRADE 50 KSI.

3. ALL THREAD MICROPILE REINFORCEMENT SHALL BE MINIMUM GRADE 75 KSI.

REINFORCEMENT BAR IN CENTRAL PORTION OF THE DRILL HOLE.

TYPICAL MICROPILE CONSTRUCTION SEQUENCE:

1. WHERE POSSIBLE LEVEL AREA OF MICROPILE FOOTING PRIOR TO DRILLING.

MATERIALS OUTSIDE THE THE TEMPORARY CASING OCCURS.

WITH A MINUMU OVERALL LENGTH OF AT LEAST 15 FT. 5. PLACE GROUT FOR MICROPILES BY TREMIE METHOD FROM BOTTOM OF THE HOLE.

STABILIZATION PROVISION.

DRILLED HOLE DIAMETER MIN. 6 INCHES

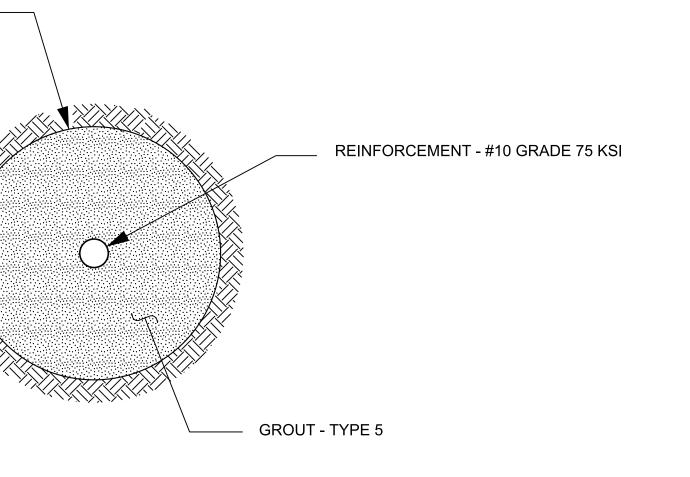
NORTH CAROL DEPARTMENT OF TRANS **DIVISION OF HIGH**

GEOTECHNI ENGINEERING

SHEET NO. 2G-9

GEOTECHN ENGINEE		ENGINEER	1				
NORTH CARO SEAL 02880 MOINES	AAL 3 SMILLING SMILLING						
Signed by: NGA/N. J	12/20/2024						
	DATE	SIGNATURE	DATE				
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED							

- 1. THE MICROPILES HAVE BEEN DESIGNED IN GENERAL ACCORDANCE WITH AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS. THE MICROPILE FOUNDATIONS HAVE BEEN DESIGNED TO SUPPORT A LOAD OF 60 KIPS IN COMPRESSION AND TENSION.
- 4. MICROPILE NUTS WILL BE MANUFACTORED BY THE BAR MANUFACTURER AND COMPATIBLE WITH THE BAR TYPE SPECIFIED.
- 5. CENTRALIZERS- PLASTIC, STAINLESS STEEL, OR OTHER NON-DELETERIOUS MATERIAL WHICH WILL MAINTAIN SHAPE AND LOCATION TO KEEP
- 2. IF REQUIRED, INSTALL AND TEST PILES IN ACCORDANCE AASHTO GUIDLINES AS DIRECTED BY THE ENGINEER.
- 3. ROTARY FLUSH TEMPORARY CASING TO TOP OF ROCK USING AIR OR WATER AS FLUSHING MEDIUM. CARE SHALL BE TAKEN SO MINIMAL LOSS OF
- 4. USE ROTARY PERCUSSIVE DRILLING TO DRILL ROCK SOCKET TO REQUIRED DEPTH. MINIMUM BOND LENGTH IS 5 FEET INTO COMPETENT ROCK,
- 6. FOR SOLID BAR MICROPILES, INSTALL CENTER CORE REINFORCEMENT STEEL (STEEL MAY BE PLACED PRIOR TO OR IMMEDIATELY AFTER
- 7. CUT TOPS OF PILES TO FINAL ELEVATION AND INSTALL PLATES. FOR MICROPILES AND MICROPILE FOOTING, SEE MICROPILE SLOPE



MICROPILE SECTION

CONTRACT NO.: C205017

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