TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	19180-3212-04	13

HIGH MAST FOUNDATION NOTES

(1) REINFORCING STEEL SHALL BE ASTM A615, GRADE 60.

(2) CONCRETE SHALL BE CLASS 'A' WITH A MIN. 28-DAY COMPRESSIVE STRENGTH OF 3.0 ksi.

(3) DO NOT GROUT BETWEEN BOTTOM OF BASE PLATE AND TOP OF CONCRETE FOUNDATION.

(4) ALL WELDING SHALL CONFORM TO AMERICAN WELDING SOCIETY STRUCTURAL WELDING CODE (STEEL) ANSI/AWS D1.1 (CURRENT EDITION).

(5) THE DESIGN WIND SPEED IS 90 MPH.

(6) FOR GROUNDING DETAILS, SEE TDOT STANDARD DWG. T-L-1.

(7) ALL STEEL ITEMS SHALL BE GALVANIZED AS FOLLOWS:

ALL NUTS, BOLTS AND WASHERS..... ASTM A153 CLASS C OR D DEPENDING ON SIZE

ALL OTHER STEEL ITEMS..... ASTM A123

(8) CONTRACTOR SHALL COORDINATE ANCHOR BOLT REQUIREMENTS WITH FABRICATOR.

(9) THE ANCHOR BOLTS, BOLT PATTERN, WELDS AND PLATE SIZE VALUES ARE FOR INFORMATION ONLY. IT IS THE RESPONSIBILITY OF THE POLE MANUFACTURER TO PROVIDE POLE SIZE, BOLT PATTERN AND SIZES.

(10) THE TOP NUT SHALL BE TORQUED SO AS TO PRODUCE 60% YIELD STRESS OF ANCHOR BOLT.

(11) THE FOUNDATION DESIGN IS BASED ON BORINGS TAKEN BY TTL, INC., FORMERLY GEOSCIENCES DESIGN GROUP, LLC.

(12) THE HIGH MAST FOUNDATION DESIGN IS BASED ON 130' HIGH MAST POLES.

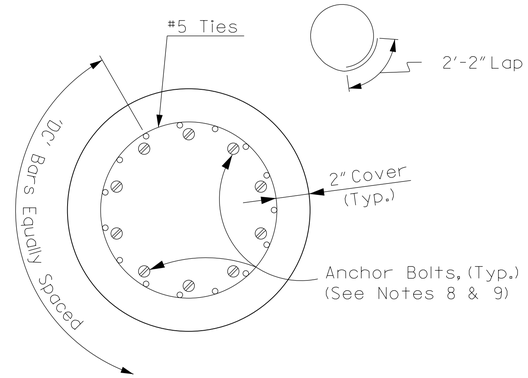
(13) CONSERVATIVE SOIL TYPE CONDITIONS BETWEEN SAND OR CLAY WAS USED FOR THE DESIGN OF HIGH MAST SHAFTS.

(14) THE HIGH MAST POLE FOUNDATION SHALL BE A MINIMUM DEPTH AS SPECIFIED IN THE FOUNDATION DIMENSION TABLE HM1 THRU HM7. THE CONTRACTOR SHALL REVIEW ALL BORING LOGS PRIOR TO BIDDING. SHOULD THE CONTRACTOR ENCOUNTER ROCK PRIOR TO SPECIFIED FOUNDATION DEPTH, THE CONTRACTOR IS REQUIRED TO CORE AND/OR BREAK THRU THE ROCK UNTIL THE SPECIFIED FOUNDATION DEPTH IS ACHIEVED AT NO ADDITIONAL COST TO THE DEPARTMENT.

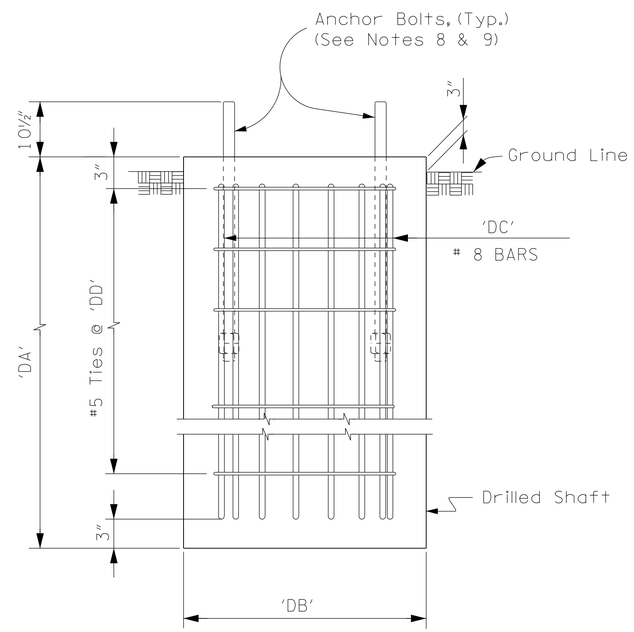
(15) HOLE DIAMETERS FOR ANCHOR BOLTS SHALL NOT BE GREATER THAN THE BOLT DIAMETER PLUS 1/2".

(16) FOUNDATION APPLIES ONLY TO SLOPES OF 1:4 OR FLATTER. PROVIDE A MINIMUM 24" SHAFT PROJECTION ON THE HIGH SIDE.

(17) DESIGN IN ACCORDANCE WITH AASHTO 6TH EDITION SIGNS, LIGHTS AND SIGNALS SPECIFICATIONS.



PLAN VIEW
DRILLED SHAFT



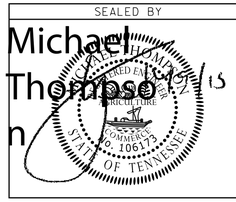
ELEVATION
DRILLED SHAFT

HM 1 THRU HM 7

FOUNDATION DIMENSIONS	
SYMBOL	VALUE
DA	18'-0"
DB	4'-0"
DC	23 @ 6"
DD	12" (MAX)

SEALED BY

Michael Thompson



STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

FOUNDATION DETAILS

SCALE: NONE

* * * GEOTECHNICAL INFORMATION PROVIDED BY: TTL, INC., ON FILE WITH TDOT TRAFFIC DESIGN * * *

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