

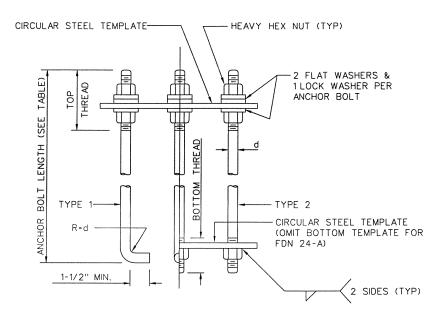
ELEVATION

VERTICAL BARS MAY REST ON BOTTOM OF DRILLED HOLE IF MATERIAL IS FIRM ENOUGH TO DO SO WHEN CONCRETE IS PLACED TRAFFIC SIGNAL POLE

O THE TOP THIRD OF THE EMBEDDED SHAFT. IGNORE THE TOP 1' OF SOIL.

ANCHOR BOLT & TEMPLATE SIZES										
BOLT DIAMETER	*BOLT LENGTH		BOTTOM THREAD	BOLT CIRCLE	R2	R1				
3/4''	1'-6''	3"	-	12-3/4"	7-1/8''	5-5/8"				
1-1/2"	3'-4''	6''	2''	17''	10''	7''				
1-3/4"	3'-10''	7''	2-1/4'	19''	11-1/4"	7-3/4"				
2"	4'-3"	8''	2-1/2"	21''	12-1/2"	8-1/2"				

* MINIMUM DIMENSIONS GIVEN, LONGER BOLTS ARE ACCEPTABLE



HOOKED ANCHOR (TYPE 1) NUT ANCHOR (TYPE 2)

ANCHOR BOLT ASSEMBLY

INSTALLATION PROCEDURE :

THREADS OF ANCHOR BOLTS SHALL BE COATED WITH PIPE JOINT COMPOUND PRIOR TO INSTALLATION OF UPPER NUTS WHEN ERECTING POLE. AFTER POLE IS PLUMBED AND IN PERMANENT ALIGNMENT, THE EXPOSED THREADS OF PAINTED BOLTS SHALL BE CLEANED AND AN ADDITIONAL COATING OF ZINC-RICH PAINT APPLIED TO SEAL THE BOLT THREAD-NUT JOINT.

				FOUND	ATION [DESIGN	TABLE					
FDN TYPE	DRILLED SHAFT DIA	REINFORCING STEEL		DRILLED SHAFT LENGTH-ft (3), (4), (5)			ANCHOR BOLT DESIGN (1)				FOUNDATION DESIGN	
		VERT BARS	SPIRAL & PITCH		ONE PENT blows/ft 15	ROMETER 40	ANCHOR BOLT DIA	Fy (ksi)	BOLT CIR DIA	ANCHOR TYPE	LOAD MOMENT K-ft	
24-A	24"	4-#5	#2 at 12"	5.7	5.3	4.5	3/4"	36	12 3/4"	1	10	1
30-A	30''	8-#9	#3 at 6"	11.3	10.3	8.0	1 1/2"	55	17''	2	87	3
36-A	36"	10-#9	#3 at 6''	13.2	12.0	9.4	1 3/4"	55	19''	2	131	5
36-B	36"	12-*9	*3 at 6"	15.2	13.6	10.4	2 ''	55	21''	2	190	7

NOTES :

- (1) ANCHOR BOLT DESIGN DEVELOPS THE FOUNDATION CAPACITY GIVEN UNDER FOUNDATION DESIGN LOADS.
- (2) FOUNDATION DESIGN LOADS ARE THE ALLOWABLE MOMENTS AND SHEARS AT THE BASE OF THE STRUCTURE.
- (3) FIELD PENETROMETER READINGS AT A DEPTH OF APPROXIMATELY 3 TO 5 FEET MAY BE USED TO ADJUST SHAFT LENGTHS.
- (4) IF ROCK IS ENCOUNTERED, THE DRILL SHAFT SHALL EXTEND A MINIMUM OF TWO DIAMETERS INTO SOLID ROCK.
- (5) DECIMAL LENGTHS IN DESIGN TABLE ARE TO ALLOW INTERPOLATION FOR OTHER PENETROMETER VALUES.

SIGNAL DESIGN

QUORUM - INWOOD CONNECTOR

TRAFFIC SIGNAL POLE FOUNDATIONS

DEPARTMENT OF PUBLIC WORKS

TOWN OF ADDISON, TEXAS

DESIGN DRAWN DATE SCALE NOTES FILE NUMBER

P.G.W. C.W.W. 2/00 AS BUILT 42

ALAN P. McNEIL

FOUNDATION DETAILS