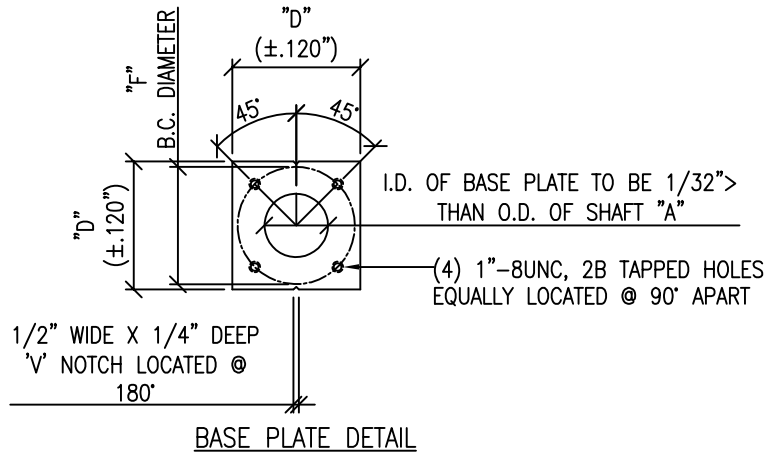
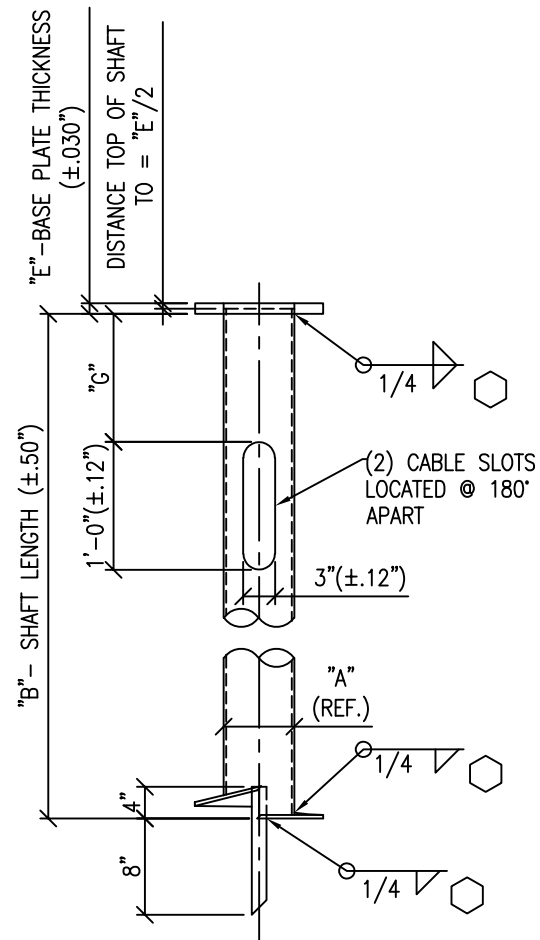
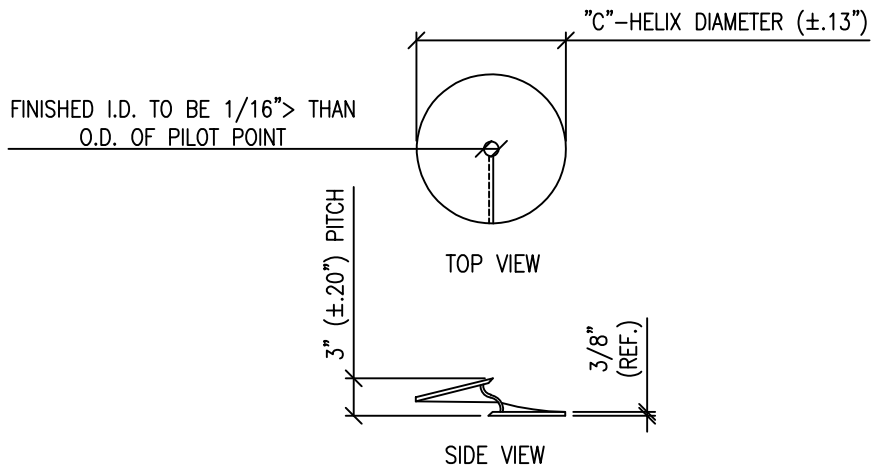
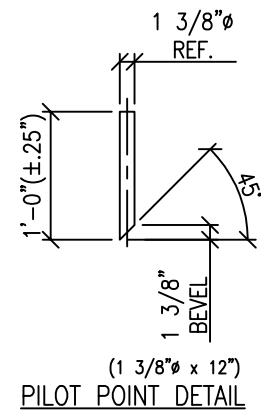


TYPE	POLE TYPE	MAXIMUM TORQUE RATING (lbs/ft)	A	B	C	D	E	F	G
			SHAFT DIAMETER	SHAFT LENGTH	HELIX DIAMETER	BASE PLATE SIZE	PLATE THICKNESS	BOLT CIRCLE	SLOT LOCATION
R	OP14	15,000	6"	48"	12"	10"	3/4"	9-1/2"	12"
T1	OP301, OP302, OP303	15,000	6"	60"	12"	12"	1"	11"	18"
F1	OP401, OP402	20,000	8"	60"	14"	12"	1"	11-1/2"	18"
F2	OP403	20,000	8"	60"	14"	15"	1-1/4"	14-1/2"	18"
SP1	SP	15,000	6"	48"	12"	11"	1"	12-3/8"	18"



SCREW IN FOUNDATION ANCHOR (ELEVATION)

BASE PLATE DETAIL



HELIX PLATE DETAIL

NOTE:
HELIX TO BE FORMED BY MATCHING METAL DIE

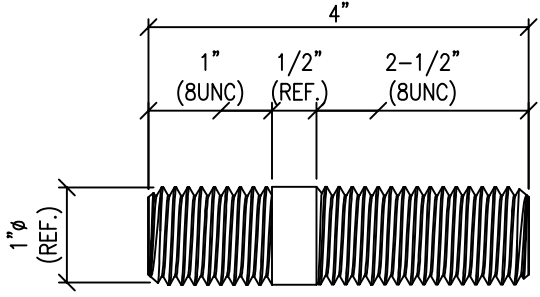
◻ = DENOTES WELDING PROCEDURE

NOTES:

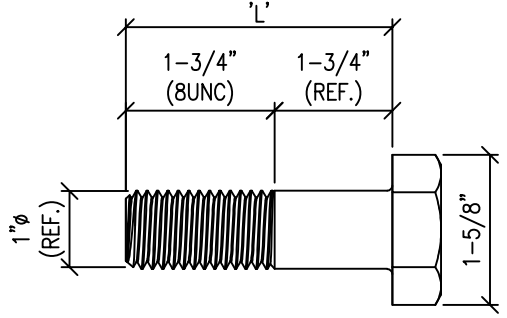
- 1) FINISH: ALL STEEL COMPONENTS TO BE HOT DIP GALVANIZED PER ASTM- A123 AND AASHTO M111 (LATEST REVISIONS)
ALL HARDWARE TO BE HOT DIP GALVANIZED PER ASTM A153 CLASS C
- 2) BASEPLATE TO BE PERMANENTLY NOTCHED TO INDICATE CABLE SLOT LOCATIONS
- 3) BASEPLATE TO BE PERPENDICULAR TO SHAFT AXIS (+/- ONE DEGREE) AND CONCENTRIC TO SHAFT AXIS (+/- 0.188")
- 4) BASEPLATE TO BE PERMANENTLY STAMPED WITH MANUFACTURER'S TYPE AND CERTIFICATION: "JHB" IN 1/2" LETTERS AND DATE CODE IN 1/2" LETTERS.
- 5) PILOT POINT AND SHAFT AXIS TO BE CONCENTRIC (+/- 0.125) AND INLINE (+/- 3 DEGREES)
- 6) PREHEAT (ROOM TEMPERATURE 70 DEGREES F.), TUMBLE BLAST, HAND GRIND, AND CLEAN BASEPLATE, HELIX AND CORE ON ALL WELDED AREAS.
- 7) FLAME CUT IRREGULARITIES PERMISSIBLE.
(1) VALLEYS NOT TO EXCEED 3/32" BELOW NOMINAL SURFACE LEVEL.
(2) PEAKS OR POSITIVE IRREGULARITIES NOT TO EXCEED 1/32" ABOVE NOMINAL SURFACE LEVEL OR INTERSECTIONS OF NOMINAL SURFACES.
- 8) MANUFACTURER TO HAVE IN EFFECT INDUSTRY RECOGNIZED WRITTEN QUALITY CONTROL FOR ALL MATERIALS AND MANUFACTURING PROCESSES.
- 9) TAP 1"-8UNC DIAMETER HOLES IN THE SPECIFIED BOLT CIRCLE PERPENDICULAR TO THE BASEPLATE. CLEAN AND CHASE THE THREADS AFTER HOT DIP GALVANIZING SO THAT A BOLT MAY BE HAND INSTALLED.
- 10) ALL MATERIAL IS TO BE NEW, UNUSED AND MILL TRACEABLE MEETING THE FOLLOWING SPECIFICATIONS:

- BASEPLATE: ASTM A36- (LATEST REVISION) HOT ROLLED STEEL PLATE
- SHAFT: STEEL PIPE PILES. SEAMLESS OR STRAIGHT WELDED, GRADE 2 PER ASTM A252-2 OR STEEL PIPE PER ASTM A500 GRADE B
- HELIX: ASTM A36- (LATEST VERSION) HOT ROLLED STEEL PLATE
- PILOT POINT- ASTM A36- (LATEST VERSION) HOT ROLLED STEEL
- STUD: ASTM 1554 GRADE 105 SPECIAL 1" DIAMETER HOT DIP GALVANIZED STUD, THREADED AT BOTH ENDS. (4) REQ'D ONLY IF USING BREAKAWAY COUPLINGS.
- BOLT: ASTM A325 OR GRADE 5 SAE J429. (4) 1" ϕ X 2-1/2" HOT DIP GALVANIZED HEX HEAD BOLT FOR TYPE R & TYPE SP1 SCREW-IN FOUNDATIONS ONLY. EACH BOLT SHALL INCLUDE ONE EACH, HOT DIP GALVANIZED LOCK WASHER AND HOT DIP GALVANIZED FLAT WASHER FOR THE TYPE R & TYPE SP1 SCREW-IN FOUNDATIONS ONLY.
ASTM A325 OR GRADE 5 SAE J429. (4) 1" ϕ X 3" HOT DIP GALVANIZED HEX HEAD BOLT FOR TYPE T1, F1, & TYPE F2 SCREW-IN FOUNDATIONS ONLY IF SUPPLYING FOR FRANGIBLE BREAKAWAY BASES. EACH BOLT SHALL INCLUDE A HOT DIP GALVANIZED LOCK WASHER FOR TYPE T1, F1 & TYPE F2 SCREW-IN FOUNDATIONS ONLY.

MATERIAL TO BE 100% MELTED & MANUFACTURED IN THE U.S.A.



THREADED STUD DETAIL
(USE ONLY W/ BREAKAWAY COUPLINGS)



HEX HEAD BOLT DETAIL
(L = 2-1/2" TO BE USED W/ TYPE R & TYPE SP1 FOUNDATION ANCHORS ONLY)
(L = 3" TO BE USED W/ TYPE T1, F1 & TYPE F2 FOUNDATION ANCHORS ONLY)

CITY OF OVERLAND PARK, KS

SCREW IN FOUNDATION ANCHOR DETAILS (STEEL HELIX)			
REVISION:	A	P.O. COMPANY:	LEMAC
DATE:	11-11-19	P.O. NUMBER:	
CONTRACTOR:			
J. H. Botts LLC			DWG. NO.
BRIDGE & HWY. METAL PRODUCTS			JHBOPK-1
253 E. BRUCE			1 of 1