

ANCHOR BOLTS:

- A1 - (4) ASTM F 1554 GRADE 36 ANCHOR BOLTS PER SPECIFICATIONS
- A2 - BOLT CIRCLE DIAMETER TO MATCH POLE BASEPLATE
- A3 - ANCHOR BOLTS SHALL HAVE HEADS, OR NUTS WITH THE THREADS STAKED AT TWO PLACES BELOW THE NUT OR TACK WELDED, EMBEDDED IN FOUNDATION.
- A4 - ANCHOR BOLTS SHALL BE 39" LONG WITH 33" EMBEDMENT IN CONCRETE.
- A5 - BOLT PROJECTION AS RECOMMENDED BY THE MANUFACTURER.

CONDUIT:

- C1 - CONDUIT SHALL BE RGS IN CONCRETE WITH 6" MINIMUM STUB-OUT.
- C2 - SERVICE AND FEED CONDUITS SHALL BE RGS OR PVC, AS REQUIRED.
- C3 - STUB UP TO WITHIN 4" FROM HAND HOLE.

FOUNDATION:

- F1 - THE TOP 3.50" OF ROUND FOUNDATIONS SHALL BE INTEGRATED INTO SIDEWALK OR POURED AS A SQUARE PAD, LARGE ENOUGH TO FULLY SUPPORT THE POLE BASE PLATE AND NUT COVERS.
- F2 - THE FOUNDATION SHALL CURE A MINIMUM OF FOURTEEN (14) DAYS PRIOR TO POLE INSTALLATION OR TORQUING OF THE ANCHOR BOLTS.
- F3 - FOUNDATION DEPTH (PD) :
 54" DEEP POST-TOP POLES
 60" DEEP POST-TOP LUMINAIRE POLE W/ RAPID FLASH BEACON
 72" DEEP 30 FOOT POLES
 84" DEEP 35 FOOT POLES

REINFORCEMENT:

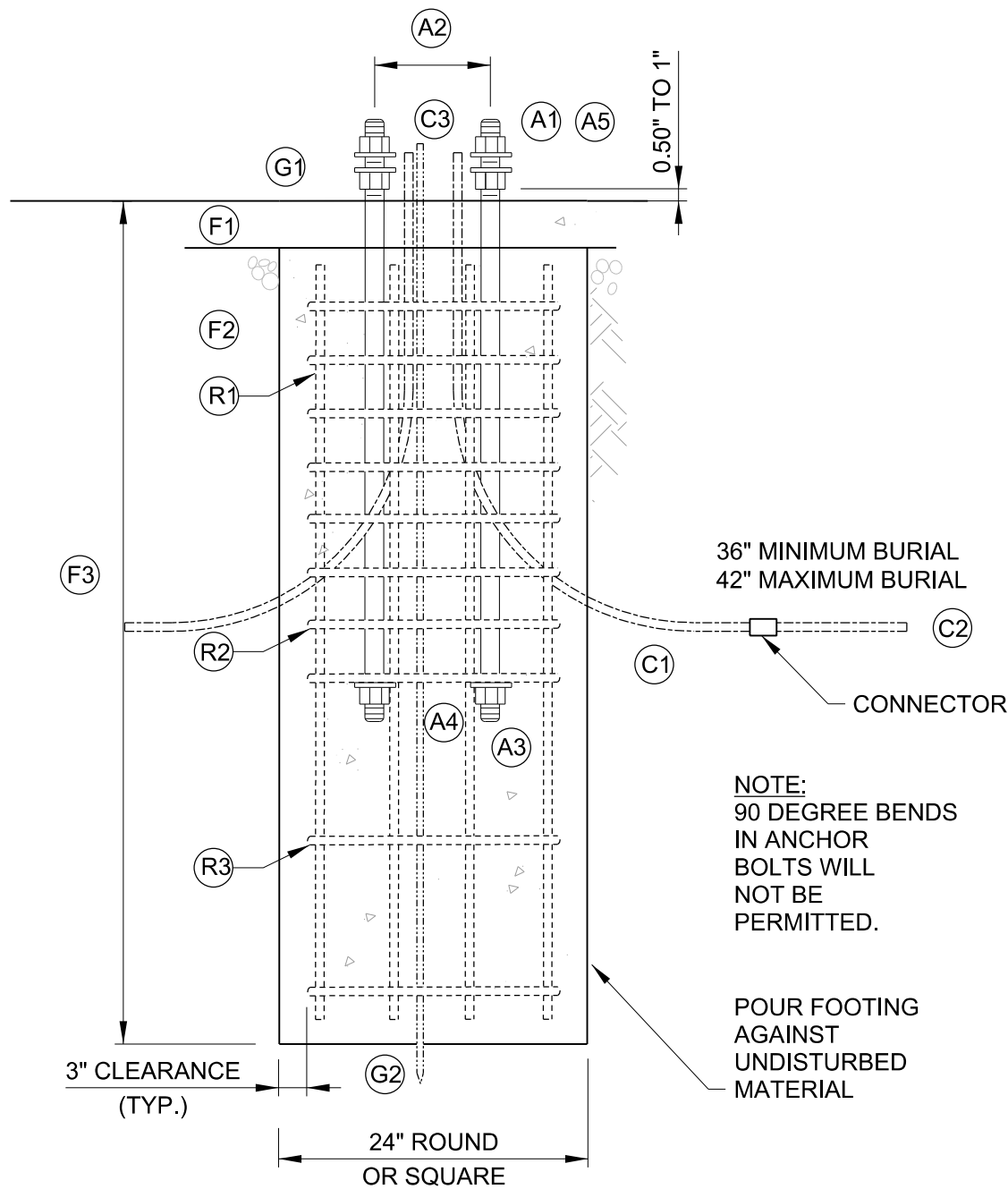
- R1 - VERTICAL REBAR SHALL BE 7-#6 EQUALLY SPACED INSIDE OF HOOPS.
- R2 - HOOPS SHALL BE #4 X 18" O.D., SPACED 4" O/C FROM TOP OF FOUNDATION TO END OF ANCHOR BOLTS.
- R3 - HOOPS SHALL BE #4 X 18" O.D., SPACED 12" MIN. FROM THE ANCHOR BOLTS TO BOTTOM OF FOUNDATION.

GROUND ROD:

- G1 - MINIMUM 3" EXPOSURE AT TOP OF FOUNDATION, WITHIN BOLT CIRCLE.
- G2 - GROUND ROD SHALL BE MINIMUM 0.625" DIA. X 8 FT LONG, COPPER CLAD.

NOTES :

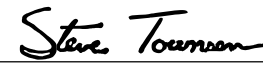
1. STANDARD FOUNDATION DESIGN IS BASED ON THE FOLLOWING SOIL PARAMETERS, WHICH ARE CHARACTERISTIC OF THE PREDOMINANTLY SILTY SOILS LOCATED THROUGHOUT THE GREATER PORTLAND AREA: SOIL INTERNAL FRICTION ANGLE: 26 DEGREES SOIL EFFECTIVE UNIT WEIGHT = 110 PCF
2. PROJECT BIDS FOR FOUNDATIONS SHALL BE BASED ON STANDARD DESIGN DEPTH AS SHOWN ON THIS DRAWING. ADDITIONAL FOUNDATION DEPTH, IF REQUIRED FOR CONDITIONS AS OUTLINED BELOW IN NOTES 3-6, WILL BE PAID FOR BY CONTRACT CHANGE ORDER.
3. SHAFTS THAT ENCOUNTER UP TO 3 FEET OF FILL SOIL REQUIRE THE TOTAL FOUNDATION DEPTH BE INCREASED BY AN AMOUNT EQUAL TO THE THICKNESS OF THE FILL.
4. SHAFTS THAT ENCOUNTER MORE THAN 3 FEET OF FILL SOIL REQUIRE A SITE OBSERVATION AND SPECIAL FOUNDATION DESIGN PROVIDED BY THE CITY. CONTRACTOR TO CONTACT THE CITY'S PROJECT ENGINEER TO COORDINATE.
5. SHAFTS THAT ENCOUNTER GROUNDWATER LEVEL IN LOWER HALF OF SHAFT REQUIRE A 2-FOOT INCREASE IN TOTAL FOUNDATION DEPTH.
6. SHAFTS THAT ENCOUNTER GROUNDWATER LEVEL IN UPPER HALF OF SHAFT REQUIRE A TOTAL FOUNDATION DEPTH OF 1.5 TIMES THE STANDARD DEPTH.



NOTE:
90 DEGREE BENDS
IN ANCHOR
BOLTS WILL
NOT BE
PERMITTED.

POUR FOOTING
AGAINST
UNDISTURBED
MATERIAL

NOT TO SCALE

The selection and use of this Standard Drawing, while designed in accordance with generally accepted engineering principles and practices, is the sole responsibility of the user.	PORTLAND BUREAU OF TRANSPORTATION  City Engineer	
	Standard Drawing Title STANDARD STREET LIGHT POLE FOOTING	
Note: All material and workmanship shall be in accordance with the City of Portland Standard Construction Specifications.	Effective Date: 01-08-2019	Standard Drawing No.
	Calc. Book No.: n/a	P-660
	Baseline Report Date: 01-08-2019	