

A. GENERAL

1. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS, ELEVATIONS, AND SITE CONDITIONS BEFORE STARTING WORK, AND SHALL RESOLVE CONFLICTS ON THE PLANS WITH THE ENGINEER/ARCHITECT BEFORE PROCEEDING WITH CONSTRUCTION. IN NO CASE SHALL DIMENSIONS BE SCALED FROM PLANS, SECTIONS, OR DETAILS ON THE STRUCTURAL DRAWINGS.
2. THE CONTRACTOR SHALL DETERMINE THE LOCATION OF UTILITY SERVICES IN THE AREA TO BE EXCAVATED, BEFORE BEGINNING EXCAVATION.
3. ALL MATERIALS AND WORKMANSHIP SHALL CONFORM TO THE REQUIREMENTS OF THE 2018 IBC.

B. FOUNDATION

1. THE MAT FOUNDATION IS DESIGNED FOR AN ALLOWABLE BEARING CAPACITY OF 1,500 PSF AND A LATERAL SLIDING COEFFICIENT OF FRICTION OF 0.25.
2. THE FINISH EXCAVATION FOR FOUNDATIONS SHALL BE NEAT & TRUE TO LINE.

C. REINFORCED CONCRETE

1. CONCRETE WORK SHALL CONFORM TO ALL REQUIREMENTS OF ACI 301, "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS", EXCEPT AS MODIFIED BY THESE NOTES.
2. CEMENT SHALL CONFORM TO ASTM C150, TYPE I OR II.
3. AGGREGATES FOR NORMAL WEIGHT CONCRETE SHALL CONFORM TO ASTM C33.
4. READY-MIX CONCRETE SHALL BE MIXED AND DELIVERED IN ACCORDANCE WITH ASTM C94.
5. CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS AS FOLLOWS:
FOUNDATION: 3000 PSI
6. ADMIXTURES MAY BE USED WITH PRIOR APPROVAL OF THE ENGINEER. ADMIXTURES SHALL COMPLY WITH ASTM C494 & C1017 AND BE OF A TYPE THAT INCREASES THE WORKABILITY OF THE CONCRETE, BUT SHALL NOT BE CONSIDERED TO REDUCE THE SPECIFIED MINIMUM CEMENT CONTENT (CALCIUM CHLORIDE SHALL NOT BE USED).
7. WATER/CEMENT RATIO SHALL NOT EXCEED 0.50.
8. MAXIMUM SLUMP SHALL BE 4" BEFORE THE ADDITION OF ADMIXTURES.
9. ENGINEER SHALL REVIEW AND APPROVE MIX DESIGNS BEFORE INSTALLATION.
10. BAR REINFORCEMENT SHALL BE ASTM A615, GRADE 60.
11. MINIMUM LAP SPLICES OF REINFORCING BARS SHALL BE PER LAP SPLICE TABLE.
12. REINFORCING DETAILING, BENDING, AND PLACING SHALL BE IN ACCORDANCE WITH THE CONCRETE REINFORCING STEEL INSTITUTE "MANUAL OF STANDARD PRACTICE", LATEST EDITION.
13. REINFORCING STEEL SHALL BE PROVIDED WITH THE FOLLOWING AMOUNTS OF COVER FOR CAST-IN-PLACE CONCRETE U.N.O.:
A) CONCRETE DEPOSITED AGAINST EARTH: 3"
B) CONCRETE SURFACE (FORMED) EXPOSED TO EARTH OR WEATHER: 2"
14. ALL REINFORCING STEEL, ANCHOR BOLTS, DOWELS, AND INSERTS SHALL BE WELL SECURED IN POSITION WITH WIRE POSITIONERS BEFORE PLACING CONCRETE OR GROUT.
15. PROJECTING CORNERS OF FOUNDATION SHALL BE FORMED WITH A 3/4" CHAMFER.
16. THREADED ROD SHALL CONFORM TO ASTM F1554 GRADE 36.
17. NUTS SHALL CONFORM TO ASTM A563, HEAVY HEX GRADE A.

BAR SIZE	CLASS B	
	TOP BARS	OTHER
#3	28"	22"
#4	37"	29"
#5	47"	36"
#6	56"	43"
#7	81"	63"
#8	93"	72"
#9	105"	81"

GRADE 60 BARS, 3000 PSI CONC.

D. DESIGN CRITERIA

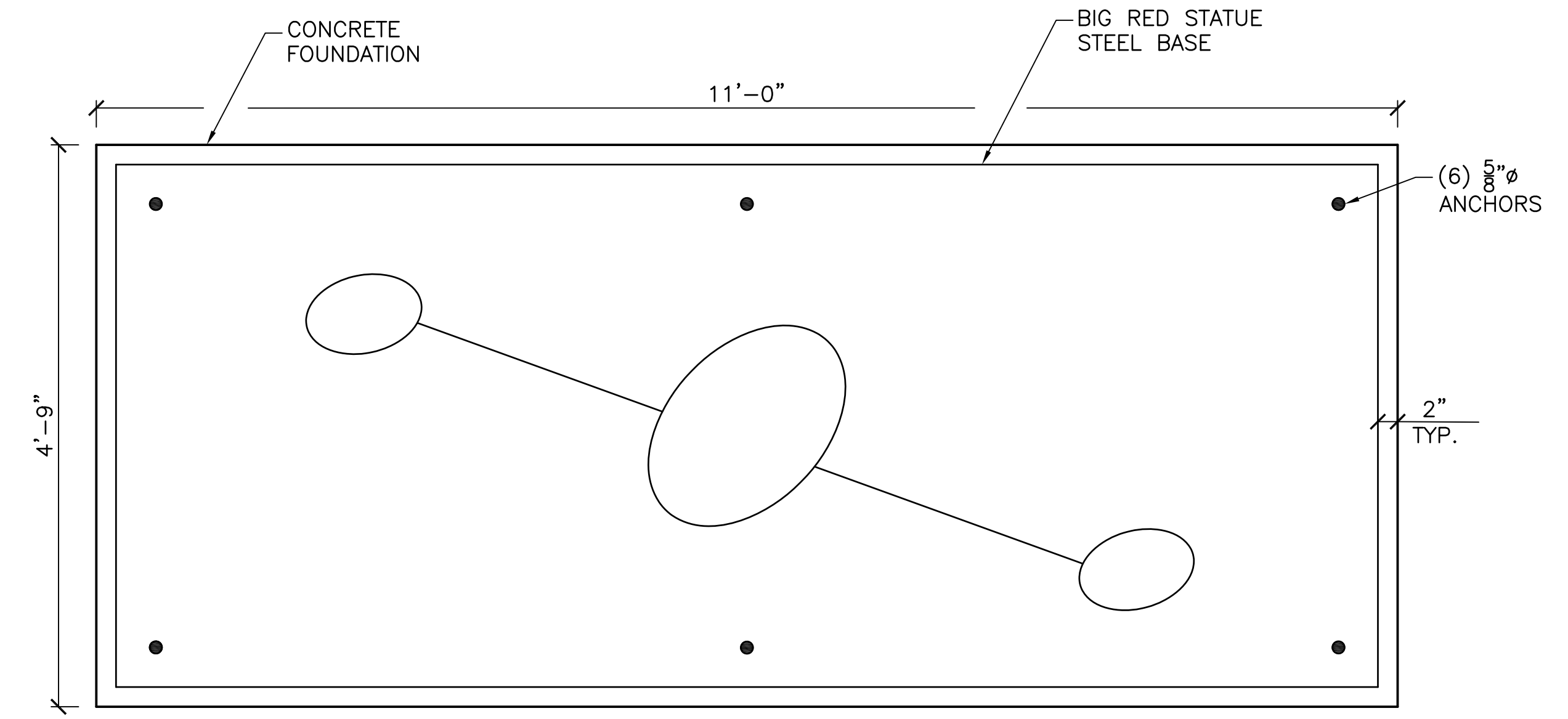
1. DESIGN CODES:
a. 2018 INTERNATIONAL BUILDING CODE (IBC)
b. ASCE 7-16
2. RISK CATEGORY = II
3. VERTICAL LOADS:
a. DEAD LOADS:
BIG RED STATUE WEIGHT = 1000#
b. LIVE LOAD: 100 PSF
c. SNOW LOAD: 15 PSF
4. LATERAL LOADS:
a. WIND LOADS
WIND SPEED: $V_{ult} = 111$ MPH
EXPOSURE CATEGORY: C
 $q_h = 22.8$ PSF
 $F_{ult} = 32$ PSF
b. SEISMIC LOADS
SEISMIC DESIGN CATEGORY: B
SITE CLASS: D
 $S_s = 0.091g$ $S_1 = 0.055g$
 $SDS = 0.097g$ $SD1 = 0.088g$
 $F_p = 0.03 W_p$

E. SPECIAL INSPECTION REQUIREMENTS

1. SPECIAL INSPECTION IS REQUIRED PER CHAPTER 17 OF THE 2018 IBC FOR FOUNDATION AND CONCRETE CONSTRUCTION.
2. REFER TO THE MATERIAL SPECIFIC TABLES FOR ACTIVITY INSPECTION AND FREQUENCY.

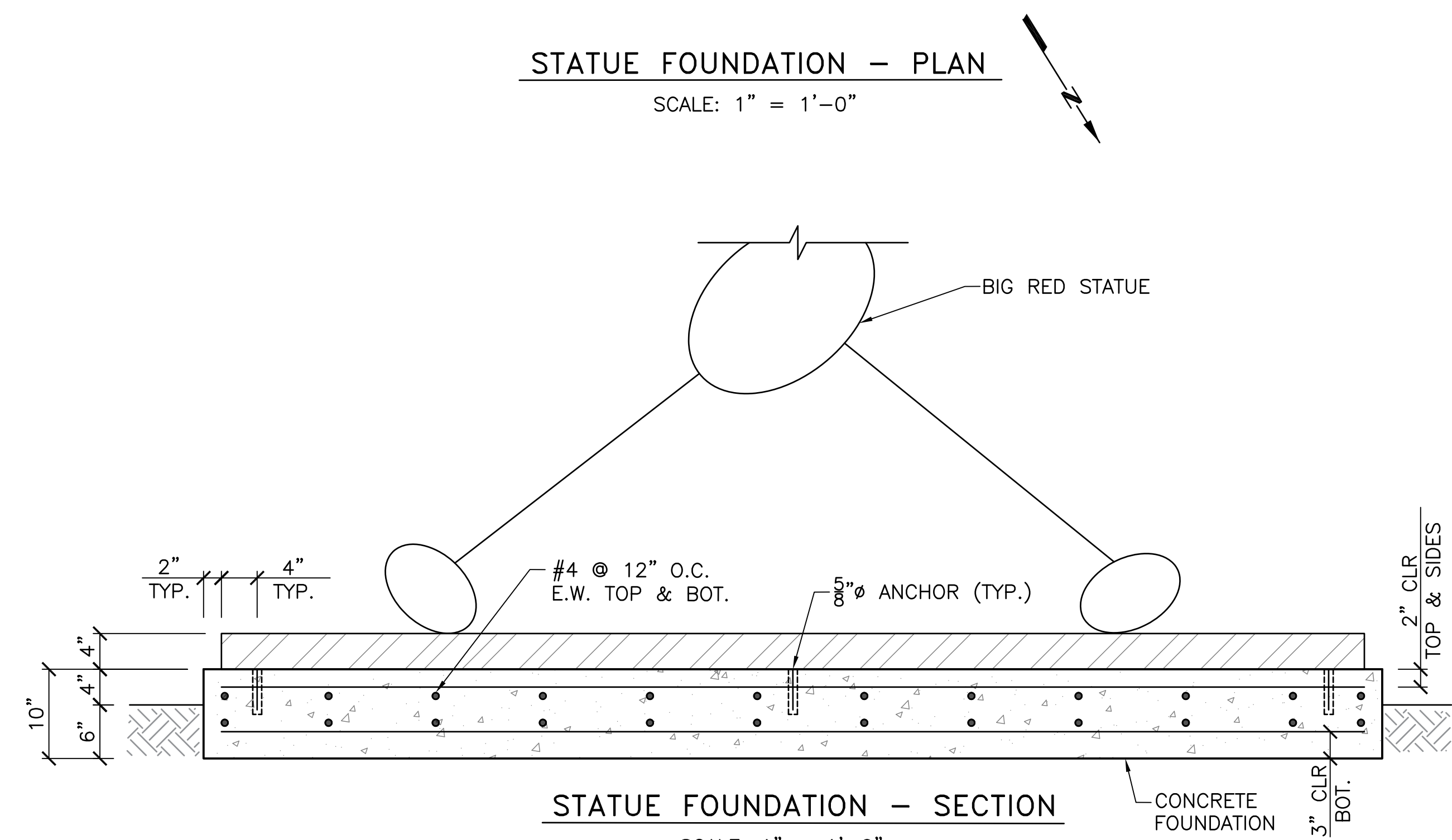
TABLE 1705.6 REQUIRED VERIFICATION AND INSPECTION OF SOILS		
VERIFICATION AND INSPECTION TASK	CONTINUOUS	PERIODIC
1. VERIFY MATERIALS BELOW SHALLOW FOUNDATIONS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY.	---	X
2. VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL.	---	X
3. PERFORM CLASSIFICATION AND TESTING OF COMPACTED FILL MATERIALS.	---	X
4. VERIFY USE OF PROPER MATERIALS, DENSITIES AND LIFT THICKNESSES DURING PLACEMENT AND COMPACTION OF COMPACTED FILL.	X	---
5. PRIOR TO PLACEMENT OF COMPACTED FILL, OBSERVE SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY.	---	X
6. VERIFY FINISHED GRADE REQUIREMENTS.	---	X

TABLE 1705.3 REQUIRED VERIFICATION AND INSPECTION OF CONCRETE CONSTRUCTION				
VERIFICATION AND INSPECTION TASK	CONTINUOUS	PERIODIC	REFERENCED STANDARD	IBC REFERENCE
1. INSPECT REINFORCEMENT AND VERIFY PLACEMENT.	---	X	ACI 318: 20, 25.2, 25.3, 26.6.1-26.6.3	1908.4
2. INSPECT ANCHORS CAST IN CONCRETE.	---	X	ACI 318: 17.8.2	---
3. INSPECT ADHESIVE ANCHORS POST-INSTALLED IN HARDENED CONCRETE MEMBERS	X	---	ACI 318: 17.8.2.4	---
4. VERIFY USE OF REQUIRED DESIGN MIX.	---	X	ACI 318: 19, 26.4.3, 26.4.4	1904.1-2, 1908.2-3
5. PRIOR TO CONCRETE PLACEMENT, FABRICATE SPECIMEN FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE.	X	---	ASTM C172; ASTM C31; ACI 318: 26.5, 26.12	1908.10
6. VERIFY MAINTENANCE OF SPECIFIED CURING TEMPERATURES AND TECHNIQUES.	---	X	ACI 318: 26.5-26.5.5	1908.9
7. INSPECT FORMWORK FOR SHAPE, LOCATION AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED.	---	X	ACI 318: 26.11.1.2(B)	---



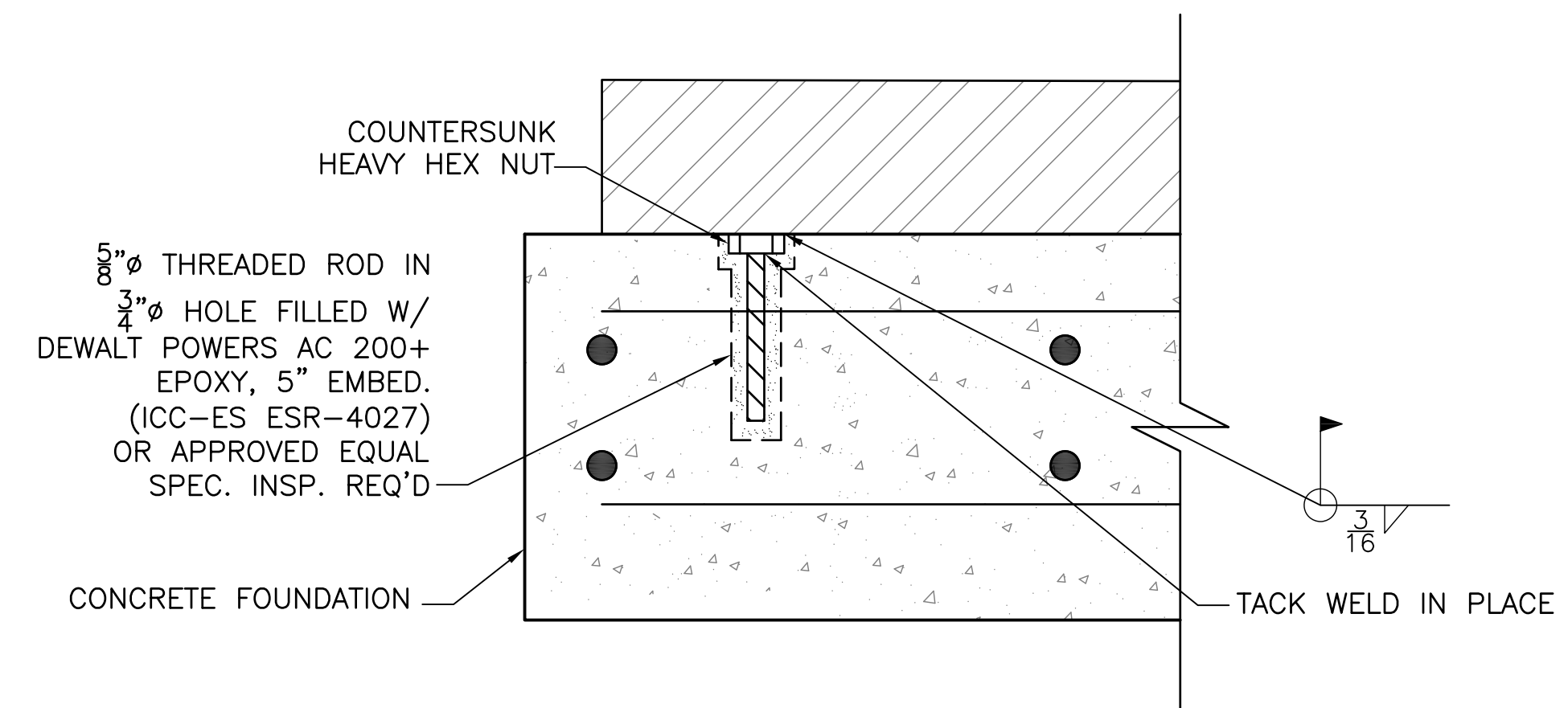
STATUE FOUNDATION - PLAN

SCALE: 1" = 1'-0"



STATUE FOUNDATION - SECTION

SCALE: 1" = 1'-0"



STATUE FOUNDATION - ANCHOR DETAIL

SCALE: 3" = 1'-0"



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PHONE: 316-268-0230

SYCAMORE STREET IMPROVEMENTS
WICHITA, KANSAS



REVISIONS:	MARK	DATE	DESCRIPTION

PROJ NO: P125180025
SCALE: AS SHOWN
DATE: 4/10/2020
DESIGNED BY: ESN
DRAWN BY: SS
CHECKED BY: MB

SHEET TITLE:
BIG RED STATUE FOUNDATION

SHEET NO.
13
SHEET 13 OF 97