PARKING LOT LIGHT POLE FOUNDATION (WITH INTEGRATED BASE)

GENERAL NOTES

I. OVERALL NOTES

A. PRIOR TO BEGINNING ANY WORK OR ORDERING ANY MATERIALS, THE CONTRACTOR SHALL COORDINATE THE STRUCTURAL DRAWINGS WITH ALL OTHER TRADES. NOTIFY THE OWNER AND THE ENGINEER OF RECORD OF ANY DISCREPANCIES OR POSSIBLE DEFICIENCIES.

B. PRIOR TO STARTING WORK, THE CONTRACTOR SHALL VERIFY THE EXISTING SITE CONDITIONS AND CONSTRAINTS AS WELL AS EXISTING BUILDING LOCATION, DIMENSIONS, AND ELEVATIONS, IF ANY.

C. NO FIELD REVISIONS OR MODIFICATIONS TO ANY STRUCTURAL COMPONENT SHALL BE PERFORMED WITHOUT PRIOR APPROVAL BY THE ENGINEER OF RECORD.

D. PLANS AND DETAILS SHALL NOT BE SCALED FOR DETERMINATION OF LENGTHS, QUANTITIES, OR CONFIGURATION OF MATERIALS.

II. COORDINATION WITH OTHER TRADES

A. THE CONTRACTOR SHALL SUPPLY ALL ITEMS FOR ATTACHING MECHANICAL AND ELECTRICAL EQUIPMENT TO THE STRUCTURE TO RESIST ALL LOADS, INCLUDING SEISMIC FORCES. COORDINATE THE LOCATION(S) AND REQUIRED ATTACHMENT(S) WITH THE STRUCTURE. REFER TO THE ELECTRICAL AND MECHANICAL DOCUMENTS FOR ADDITIONAL REQUIREMENTS.

B. COORDINATE AND PROVIDE SLEEVE LAYOUTS FOR ALL PIPES, CONDUITS, OR ANY OTHER ITEMS PENETRATING THROUGH STRUCTURAL MEMBERS. LAYOUTS ARE TO BE SUBMITTED TO AND APPROVED BY THE ENGINEER OF RECORD PRIOR TO CONSTRUCTION.

III. GEOTECHNICAL NOTES

A. THE FOUNDATIONS FOR THIS STRUCTURE WE REDESIGNED BASED UPON THE PRESUMPTIVE ALLOWABLE VALUES AS DESCRIBED IN THE 2009 INTERNATIONAL BUILDING CODE, TABLE 1806.2 "PRESUMPTIVE LOAD-BEARING VALUES" FOR CLAY, SANDY CLAY, SILTY CLAY, CLAYEY SILT, SILT, AND SANDY SILT. SHOULD ACTUAL SITE CONDITIONS VARY FROM THIS, THE FOUNDATION SHALL BE REDESIGNED.

IV. REINFORCED CONCRETE NOTES

A. ALL REINFORCED CONCRETE SHALL CONFORM TO ALL REQUIREMENTS OF ACI 301 "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS", LATEST EDITION INCLUDING AMENDMENTS, AND ACI 318 "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE", EDITION REFERENCED IN THE 2009 INTERNATIONAL BUILDING CODE.

B. TOLERANCES FOR CONCRETE MEMBERS AND COMPONENTS SHALL CONFORM TO ACI 117 "SPECIFICATION FOR TOLERANCES FOR CONCRETE CONSTRUCTION AND MATERIALS."

C. DETAILING OF CONCRETE REINFORCEMENT AND ACCESSORIES SHALL CONFORM TO ACI 315 "DETAILS AND DETAILING OF CONCRETE REINFORCEMENT."

D. U.N.O., CONCRETE SHALL HAVE SAND AND CRUSHED STONE OR GRAVEL AGGREGATE AND TYPE I, II, OR I/II PORTLAND CEMENT. THE CONCRETE SHALL HAVE A MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 3,500 PSI AND A MAXIMUM WATER/CEMENTITIOUS MATERIALS RATIO OF 0.50, AND SHALL BE AIR ENTRAINED WITH AIR CONTENT OF 6% ±1.5%.

E. NORMAL WEIGHT AGGREGATE SHALL CONFORM TO ASTM C33.

F. SLUMP OF CONCRETE SHALL NOT EXCEED 3" AT THE END OF THE TRUCK OR PUMP HOSE (PER ACI 211.1 TABLE 6.3.1). SLUMP LOSS DUE TO PUMPING SHALL BE ACCOMMODATED. IF A SUPERPLASTICIZER OR MID-RANGE WATER REDUCING ADMIXTURE IS USED IN THE MIX DESIGN, THE SLUMP SHALL NOT EXCEED 8" AFTER ADDITION OF THE ADMIXTURE. DO NOT ADD WATER TO CONCRETE AFTER ADDING WATER-REDUCING ADMIXTURES TO THE MIX.

G. U.N.O., ALL CONCRETE REINFORCING BARS SHALL CONFORM TO ASTM A615, GRADE 60 AND BE OF DOMESTIC MANUFACTURE. REINFORCING BARS TO BE WELDED SHALL CONFORM TO THE REQUIREMENTS OF ASTM A706, GRADE 60. WELDING TO REINFORCING BARS NOT SHOWN ON THE DRAWINGS, SHALL NOT BE PERMITTED. ELECTRICAL GROUNDING AND OTHER REQUIRED CONNECTIONS TO REINFORCING BARS SHALL BE ATTAINED VIA CLAMPS OR OTHER MANUFACTURED CONNECTIONS.

H. REINFORCING SHALL BE SUPPORTED AND SECURED IN ITS PROPER LOCATION TO PREVENT DISPLACEMENT DURING PLACEMENT OF CONCRETE.

I. THE CONTRACTOR SHALL VERIFY WITH ALL DISCIPLINES THE LOCATIONS OF ALL REQUIRED OPENINGS, SLEEVES, CAST-IN-PLACE ANCHORS OR HANGERS, SLAB DEPRESSIONS, INSERTS AND ANY OTHER ITEM TO BE CAST INTO THE CONCRETE.

J. ALL HIGH-STRENGTH GROUT SHALL BE PREPACKAGED, NON-METALLIC, AND NON-GASEOUS. IT SHALL BE NON-SHRINK ACCORDING TO ASTM C-1107 OR CRD-C-621. GROUT SHALL OBTAIN A MINIMUM COMPRESSIVE STRENGTH OF 7,000 PSI IN 28 DAYS AND SHALL NOT BLEED. GROUT SHALL BE MOIST CURED FOR A MINIMUM OF 24 HOURS AFTER PLACEMENT. SUBMIT CERTIFIED, INDEPENDENT TEST DATA FOR APPROVAL.

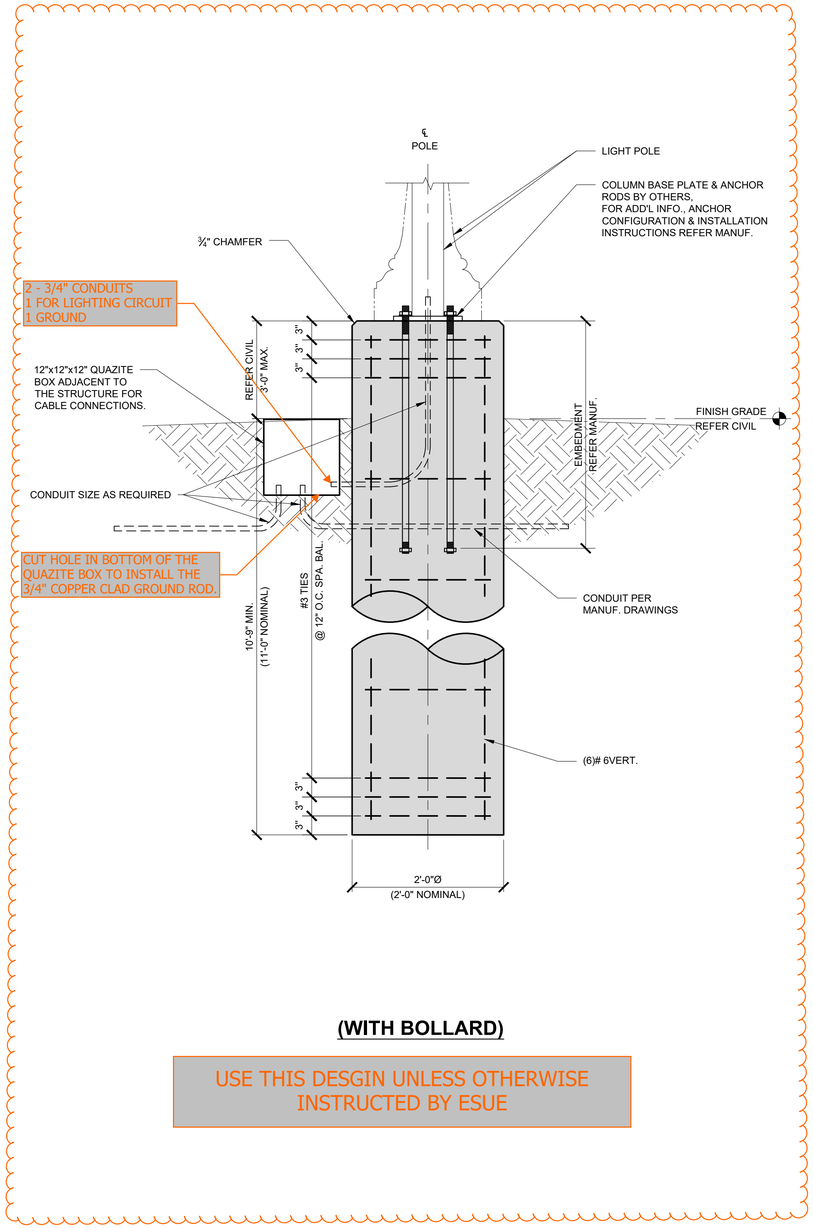
LIGHT POLE REACTIONS AT T.O. FOUNDATION

POLE SIZE	BENDING MOMENT (FT/LBS)	TORSION (FT/LBS)	SHEAR FORCE (LBS)	AXIAL FORCE (LBS)
REFER LIGHT POLE DESCRIPTIONS	17,596	1149	1089	1055

NOTES:
REACTIONS TO FOUNDATIONS SHOWN ARE A PROVIDED BY LIGHT MANUFACTURER. THE WORSE CASE LOADING IS NOTED. SHOULD THIS REACTION FROM ANY FIXTURE EXCEED THE VALUES NOTED, THE FOUNDATIONS SHALL BE RE-EVALUATED.

LIGHT POLE DESCRIPTIONS

POLE BASE:	STANDARD BASE (NO CLAMSHELL)
POLE:	NY S 23 FTB 17 P10 ABG BZ
POLE ARMS:	ATC51/1CADBH-QSM OR ATC102/2CADBH-QSM
BANNERS ARMS:	(2) OR (4) BA30BOH4BZ
FIXTURES:	(1) OR (2) ESL P30S 40K AS BZ TG 3 S BHDF13 200 BZ



(WITH BOLLARD)

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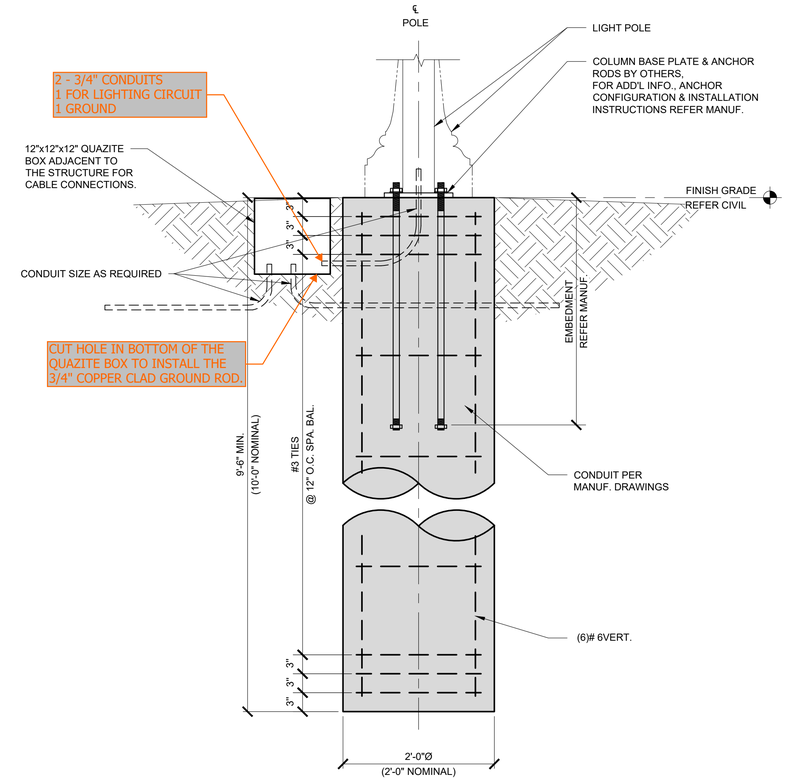

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PLOT DATE: 09/03/2018

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LICENSED PROFESSIONAL ENGINEER
CHRISTOPHER L. SNIDER
3-9-2018
23089
OKLAHOMA

REVISION HISTORY

DATE	DESCRIPTION
04/04/2016	- △1 FDN. SIZE & COL. BASE REV.
-	-
-	-
-	-
-	-

100% CONSTRUCTION DOCUMENTS

SUBMITTAL:

DATE:	03/11/2016
PROJECT NO:	14275.16
DESIGNED BY:	C.L.S.
DRAWN BY:	J.D.H.
APPROVED BY:	C.L.S.
SCALE:	AS NOTED

OSU ROADWAY/PARKING LIGHT POLE FOUNDATIONS

STILLWATER, OKLAHOMA

FOUNDATION DETAILS

SHEET
S2