

**FINISH DATA**

BASE COAT: HOT-DIP GALVANIZED TO  
ASTM A123  
PRIME COAT: HIGH BUILD EPOXY POWDER  
FINISH COAT: TGIC POWDER  
COLOR: BLACK (RAL 9004)

**NOTES:**

1. THE LIGHTING STRUCTURES SHOWN ON THIS DRAWING HAVE BEEN DESIGNED IN ACCORDANCE WITH THE LOADING AND THE NOMINAL STRENGTH REQUIREMENTS OF THE 2015 AASHTO "LRFD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS, FIRST EDITION", SLTS-1. THE WIND LOADS WERE CALCULATED FROM AN ULTIMATE WIND VELOCITY OF 120 MPH WITH A MEAN RECURRENCE INTERVAL OF 1700 YEARS.
2. POLE DESIGN LOADS:  
 BENDING MOMENT: 38,023 FT-LB  
 TORSION: 1,389 FT-LB  
 SHEAR FORCE: 1,700 LB  
 AXIAL FORCE: 1,715 LB
3. ALL POLES SHALL BE DESIGNED FOR A MINIMUM OF THE POLE DESIGN LOADS LISTED ABOVE. POLES WITH FORCES GREATER THAN ONE OR MORE OF THE LISTED LOADS SHALL REQUIRE SPECIAL DESIGN.

MATERIAL DATA		
COMPONENT	ASTM DESIGNATION	MIN. YIELD (KSI)
TAPERED TUBES	A595 GR.A	55
BASE PLATE	A36	36
PIPE	A513 OR EQUIV	36
ANCHOR BOLTS(BY OTHERS)	F1554 GR.55	55
GALVANIZE-HARDWARE	HOT DIP ZINC	

POLE DATA														
POLE TUBE				POLE BASE				ANCHOR BOLT				LUMINAIRE ARM		
BASE DIA. (IN)	TOP DIA. (IN)	LENGTH (FT)	GAUGE OR THK. (IN)	SQUARE S (IN)	BOLT CIRCLE Y (IN)	THK. M (IN)	SLOT Z (IN)	DIA. K (IN)	LENGTH J (IN)	HOOK H (IN)	THREAD LENGTH U (IN)	SPAN LENGTH L (FT)	RISE R (FT)	MIN. THICKNESS (GAUGE)
10.65	5.75	35.00	10	14.50	14.00	1.000	1.13 X 1.69	1.00	36.00	4.00	6.00	8.00	2.92	11



**ROADWAY LIGHTING POLE DETAILS  
(SMALL WIRELESS FACILITY COMPATIBLE)**

DRAWING NUMBER	SL-104-1
SCALE	NONE
REVISION DATE	11/19
DEPARTMENT	TRANS