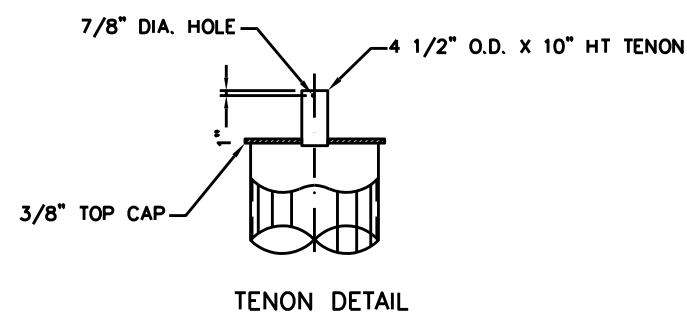


MATERIAL DATA					
COMPONENT	ASTM DESIGNATION	MIN. YIELD (KSI)	COMPONENT	ASTM DESIGNATION	MIN. YIELD (KSI)
TAPERED TUBES	A595 GR.A OR A572	55	ISLN ARM TUBE	A501,A513,A618,A500B	36
BASE PLATE	A36	36	ISLN ARM CONN. BOLTS	A325	--
ARM ATTACHMENT PLATES	A36	36	ANCHOR BOLTS	F1554 GR.55	55
SIGNAL ARM CONN BOLTS	A325	--	ANCHOR BOLT TEMPLATE	A36	36
POLE TOP PLATE	A36	36	GALVANIZING-HARDWARE	HOT DIP ZINC	--

1. OUTSIDE EDGES OF BASE PLATES AND SIGNAL ARM CONNECTING PLATES TO BE CHAMFERED APPROX. 0.06".
 2. EDGES OF SIGNAL ARM & ISLN ARM HANDHOLES TO BE CHAMFERED APPROX. 0.06".
 3. PLATES OVER 0.50" THICK TO MEET ASTM A673 & A370 15FT.-LBS @ 40°F CHARPY REQUIREMENTS.
- MANUFACTURING NOTES**



ATC Series Aluminum Roadway Arms

SPECIFICATIONS

CONSTRUCTION
The roadway arms shall be all aluminum, one-piece construction. The arms shall consist of a decorative post mounting piece, a tapered, bent tube arm, and a decorative end piece for luminaire mounting. All welding shall be per ANSI/AWS D1.2-90. All welders shall be certified per ANSI/AWS D1.2-90 Section 5.

MATERIALS
The post mounting piece and luminaire mounting piece shall be heavy wall, cast aluminum produced from certified ASTM 356.1 ingot per ASTM B179-95a or ASTM B26-95. The tapered bent arm shall be aluminum, ASTM 6063 alloy, heat treated to a T6 temper. All hardware shall be stainless steel.

INSTALLATION
The arms shall slip-fit a post top tenon and attach with socket set screws. Arms shall have a 1.5" male NPT fitting for luminaire mounting. A plumbing device shall be included for luminaire leveling.

FINISH
For finish specifications and color options see "Finish" section in catalog.

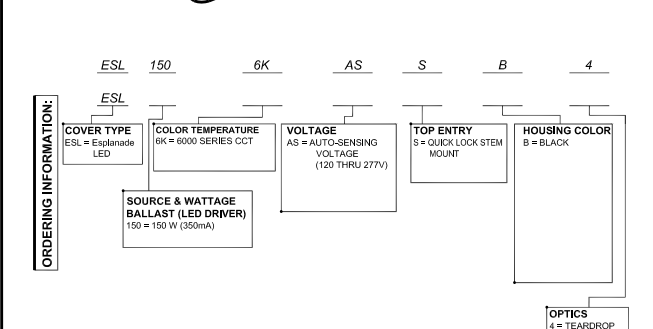
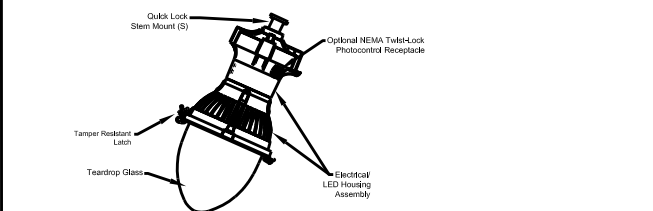
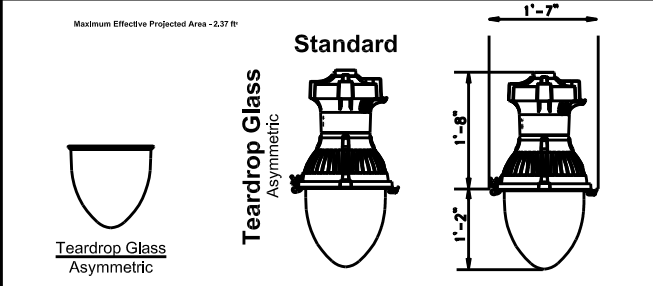
ORDERING GUIDE

Arms & Bracket Catalog #s	Number of Luminaires Required
ATC51/1	one
ATC102/2	two

Material / Finish

- CA/BK Cast Alum/Black
- CA/DB Cast Alum/Dark Bronze
- CA/DG Cast Alum/Dark Green
- CA/PP Cast Alum/Prime Painted
- CA/CC Cast Alum/Custom Color

US-2600



Specifications

DESCRIPTION
The Esplanade luminaire is styled to replicate the "teardrop" luminaires that lighted boulevards in the first half of this century. Designed for light control and ease of installation and maintenance, the Esplanade has a precision optical system for true street lighting performance.

WIRING CHAMBER
The wiring chamber has either a 1.50 inch NPT and stainless steel set screw or a welded stem. The stem aids in installation speed. Provided with a (3) station terminal block that accepts #14 through #2 wires and has a quick disconnect harness with removable electrical module.

ELECTRICAL / REFLECTOR ASSEMBLY
The electrical / reflector assembly hinges down from the wiring chamber for ease in wiring and to facilitate the removal of the electrical module. The assembly is secured in place by a stainless steel latch. The unitized electrical module consists of the electronic driver and components mounted to an aluminum plate that is easily removed by loosening two screws in keyhole slots. The disconnect plug connects the ballast to the terminal block in the wiring chamber.

REFRACTOR / DOOR ASSEMBLY
The cast aluminum door supports a teardrop or sag shaped, thermal resistant borosilicate glass refractor that controls the light to provide an I.E.S. asymmetric cut off distribution. The combination of refractor, reflector maximize efficiency and uniformity of illumination while controlling luminaire brightness. The refractor assembly and decorative skirt (when applicable) assembly hinges from the electrical / reflector assembly and is latched by a tamper-resistant, color matched bracket and wing nut assembly.

BALLAST
LED driver (see other page)

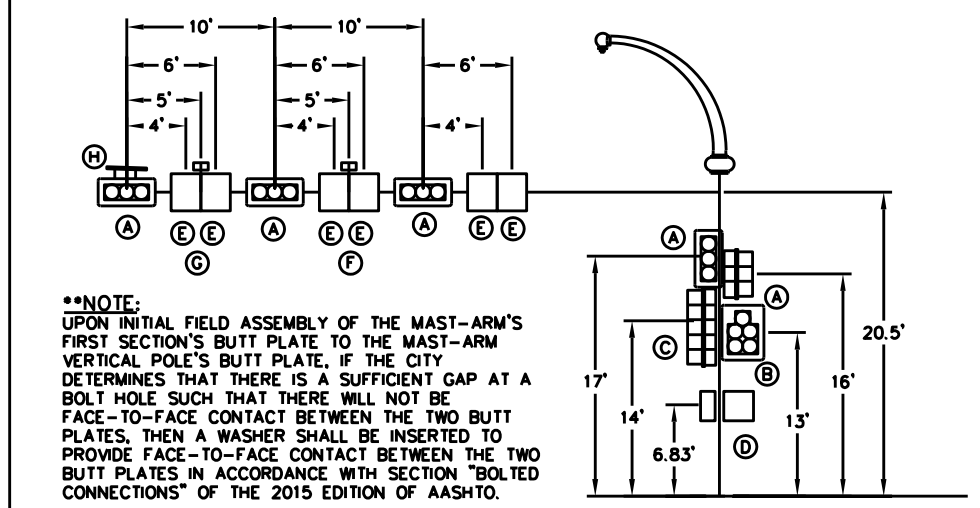
FINISH / MATERIAL
The luminaire is finished with polyester powder paint to insure maximum durability. All castings utilize low copper aluminum for maximum corrosion resistance and all exposed hardware is stainless steel.

CULUL LISTING
CULUL listing suitable for wet locations up to 40 degrees C.
IP RATING 65

DETAIL 1 LUMINAIRE AND ARM STANDARD

LOADING INFORMATION

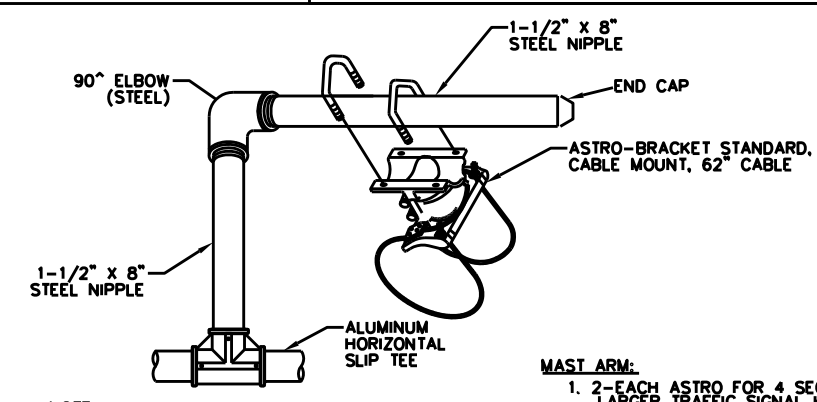
DEVICE	DESCRIPTION	PROJECTED AREA (FT ²)	WEIGHT (LBS)
(A) SIGNAL	12" -3 SECTION W/BACKPLATE	9.30	40
(B) SIGNAL	12" -5 SECTION PENTAGON W/BACKPLATE	13.72	96
(C) SIGNAL	12" -5 SECTION W/BACK PLATE	14.08	60
(D) SIGNAL	DUAL PEDESTRIAN SIGNAL	8.00	80
(E) SIGN	24" x 30" SIGN	5.00	10
(F) SIGNAL	FORWARD FIRE RADAR UNIT	0.75	6
(G) SIGNAL	PREEMPTION DETECTOR	0.70	10
(H) SIGN	WIND DAMPER 16" x 66" SEE SHEET 4 OF 4 FOR DETAIL	7.50	23



THE MAST ARM TRAFFIC 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 115 MPH WITH A MEAN RECURRENCE INTERVAL OF 700 YEARS, AND A FATIGUE CATEGORY OF 1. THE FATIGUE LOADS WERE CALCULATED ON THE REQUIREMENTS OF SECTION 11 OF THE CODE, AND THE FOLLOWING DESIGN CONDITIONS:

- STRUCTURES ARE DESIGNED TO RESIST NATURAL WIND GUSTS BASED ON THE YEARLY MEAN WIND VELOCITY OF 11.2 MPH.
- STRUCTURES ARE NOT DESIGNED TO RESIST GALLOPING-INDUCED CYCLIC LOADS DUE TO THE CUSTOMER SPECIFYING THE USE OF A VIBRATION MITIGATION DEVICE.
- STRUCTURES ARE DESIGNED FOR TRUCK-INDUCED GUST LOADS, AS REQUIRED BY THE OWNER OF THE STRUCTURES.

AASHTO 2015 SPECIFICATIONS



1. 2-EACH ASTRO FOR 4 SECTION AND LARGER TRAFFIC SIGNAL HEADS.

ASTRO BRACKET CABLE MOUNT DETAIL

NOTE: THIS DRAWING IS FOR REPRESENTATION PURPOSE ONLY. SHOP DRAWINGS SHALL BE APPROVED BY THE PROJECT ENGINEER AS WELL AS THE CITY ENGINEER.

PLEASE READ THE APPLICABLE COP SPECIFICATION SECTIONS FOR DETAILED INFORMATION.

PLEASE REFERENCE THE COP APPROVED PRODUCT LIST FOR APPLICABLE PRODUCT INFORMATION.

THIS DETAIL SHEET HAS BEEN PREPARED FOR USE ON STANDARD CITY OF PEARLAND PROJECTS. AN ENGINEER WHO INCORPORATES THE DETAILS ON THIS SHEET BECOMES RESPONSIBLE FOR ITS USE IN THE END PRODUCT IN ACCORDANCE WITH RULE 137.33 (b) AND (c) OF THE TEXAS STATE BOARD OF REGISTRATION FOR PROFESSIONAL ENGINEERS.

PEARLAND

City of Pearland
Standard Details
DECORATIVE POLES
TRAFFIC SIGNAL STRUCTURES

Job No:	Scale	SHEET
Date: September 2018	Horz: 1" = xx'	1
Drn By: R. Shrestha	Vert: 1" = xx'	
Chkd By: R. Upton	Cad File:	OF 4