

**FIXTURE AND POLE TO MEET
PACIFICORP STANDARD**

SPECIFICATIONS

LUMINAIRE DESCRIPTION

The Utility Arlington is designed for ease of maintenance with the plug-in electrical module. A precision optical system maximizes post spacings while maintaining uniform illumination. The luminaire shall be catalog number ARU10DMH12RAL6007G3-BALL FINIAL-H

OPTICAL SYSTEM The optical system consists of a precisely molded refractor operating in conjunction with a formed anodized aluminum reflector located in the top cover. Positive pressure from three coiled springs backing the reflector and gaskets at the top and bottom of the refractor create a sealed optical compartment. The molded thermal resistant, borosilicate glass refractor is designed to provide an I.E.S. Type III distribution.

LUMINAIRE HOUSING The luminaire housing, cast of aluminum, cradles the refractor and provides an enclosure for the plug in electrical module. The nickel plated lamp grip socket and the three station incoming line terminal block are pre-wired to a five conductor receptacle for ease in connecting the electrical module. A slipfitter will accept a 3" high by 2 7/8" to 3 1/8" O.D. pole tenon.

LUMINAIRE HOUSING / DOOR Cast of aluminum, the housing / door is removable without the use of tools and is retained by a nonconductive lanyard. For units with an E.E.I.-N.E.M.A. twist lock photocell receptacle, the door contains an acrylic "window" to allow light to reach the cell.

ELECTRICAL MODULE The ballast components are mounted on a steel plate that is removable without the use of tools. A matching five conductor plug connects to the receptacle in the luminaire housing to complete the wiring. Where a starting aid is required, it is provided with a separate plug-in connector and can be replaced without the use of tools. For photoelectric operation, the electrical module is provided with an E.E.I.-N.E.M.A. twist lock photocell receptacle. The luminaire shall be prewired with 20' #10 wire.

TOP COVER The octagonal cover, cast of aluminum, is attached to the top ring of the luminaire housing by a stainless steel piano hinge and latched by an overcenter, positive action, stainless steel latch which allows tool-less entry to the lamp chamber for relamping. A special cast aluminum ball finial shall be installed onto the top cover.

BALLASTS 70 watt MH units are available only with High Power Factor High Reactance type ballasts.

FINISH The luminaire is finished with polyester powder paint applied after a seven stage pretreatment process to insure maximum durability.

UL The luminaire is UL listed as suitable for wet locations at a maximum of 40 degrees C ambient temperature.

POST DESCRIPTION The lighting post shall be all aluminum, one-piece construction, with a classic double-tapered and fluted base design. The shaft shall be Ø5" fluted. The post shall be catalog number W10F5/17-CA/RAL6007.

MATERIALS The base shall be heavy wall, cast aluminum produced from certified ASTM 356.1 ingot per ASTM B-179-95a or ASTM B26-95. The straight shafts shall be extruded from aluminum, ASTM 6061 alloy, heat treated to a T6 temper. All hardware shall be tamper resistant stainless steel. Anchor bolts to be completely hot dip galvanized.

CONSTRUCTION The shaft shall be double welded to the base casting and shipped as one piece for maximum structural integrity. The shaft shall be circumferentially welded inside the base casting at the top of the access door, and externally where the shaft exits the base. All exposed welds below 8' shall be ground smooth. All welding shall be per ANSI/AWS D1.2-90. All welders shall be certified per Section 5 of ANSI/AWS D1.2-90.

DIMENSIONS The post shall be 10' in height with a 17" diameter base. The shaft diameter shall be 5". At the top of the post, an integral 3" O.D. tenon with a transitional donut shall be provided for luminaire mounting.

INSTALLATION The post shall be provided with four, hot dip galvanized L-type anchor bolts to be installed on a slotted 12" diameter bolt circle. A door shall be provided inside the base for anchorage and wiring access. A grounding screw shall be provided inside the base opposite door.

CATALOG #S:

HOLOPHANE-W10F5/17-CA/RAL6007

HOLOPHANE-ARU70DMH12RAL6007G3 C -BALL FINIAL-H

Highland City Residential Standard

DRW: ACH

DATE: 9-15-06

PAGE #: 1 of 2

REV: 3

SPECIFICATIONS

ARM DESCRIPTION The crossarms shall be one-piece construction. The arms shall be welded to a center spool. All welding shall be per ANSI/AWS D1.2-90. All welders shall be certified per ANSI/AWS D1.2-90 Section 5. The crossarm shall be catalog number ACA/2-CA/RAL6007.

MATERIALS The arms, finials, and center spool tenons, shall be heavy wall, cast aluminum produced from certified ASTM 356.1 ingot per ASTM B-179-95a or ASTM B26-95. The center spool shall be aluminum, ASTM 6061 alloy, heat treated to a T6 temper. All hardware shall be stainless steel. All exterior hardware shall be tamper resistant.

INSTALLATION The crossarms shall slip-fit a post top tenon and attach with socket set screws. The center finial shall be removable. Crossarms shall have 3" O.D. tenons for luminaire mounting.

LUMINAIRE DESCRIPTION

The Utility Arlington is designed for ease of maintenance with the plug-in electrical module. A precision optical system maximizes post spacings while maintaining uniform illumination. The luminaire shall be catalog number ARU10DMH12RAL6007G3-BALL FINIAL-H

OPTICAL SYSTEM The optical system consists of a precisely molded refractor operating in conjunction with a formed anodized aluminum reflector located in the top cover. Positive pressure from three coiled springs backing the reflector and gaskets at the top and bottom of the refractor create a sealed optical compartment. The molded thermal resistant, borosilicate glass refractor is designed to provide an I.E.S. Type III distribution.

LUMINAIRE HOUSING The luminaire housing, cast of aluminum, cradles the refractor and provides an enclosure for the plug in electrical module. The nickel plated lamp grip socket and the three station incoming line terminal block are pre-wired to a five conductor receptacle for ease in connecting the electrical module. A slipfitter will accept a 3" high by 2 7/8" to 3 1/8" O.D. pole tenon.

LUMINAIRE HOUSING / DOOR Cast of aluminum, the housing / door is removable without the use of tools and is retained by a nonconductive lanyard. For units with an E.E.I.-N.E.M.A. twist lock photocell receptacle, the door contains an acrylic "window" to allow light to reach the cell.

ELECTRICAL MODULE The ballast components are mounted on a steel plate that is removable without the use of tools. A matching five conductor plug connects to the receptacle in the luminaire housing to complete the wiring. Where a starting aid is required, it is provided with a separate plug-in connector and can be replaced without the use of tools. For photoelectric operation, the electrical module is provided with an E.E.I.-N.E.M.A. twist lock photocell receptacle. The luminaire shall be prewired with 20' #10 wire.

TOP COVER The octagonal cover, cast of aluminum, is attached to the top ring of the luminaire housing by a stainless steel piano hinge and latched by an overcenter, positive action, stainless steel latch which allows tool-less entry to the lamp chamber for relamping. A special cast aluminum ball finial shall be installed onto the top cover.

BALLASTS 70 watt MH units are available only with High Power Factor High Reactance type ballasts.

FINISH The luminaire is finished with polyester powder paint applied after a seven stage pretreatment process to insure maximum durability.

UL The luminaire is UL listed as suitable for wet locations at a maximum of 40 degrees C ambient temperature.

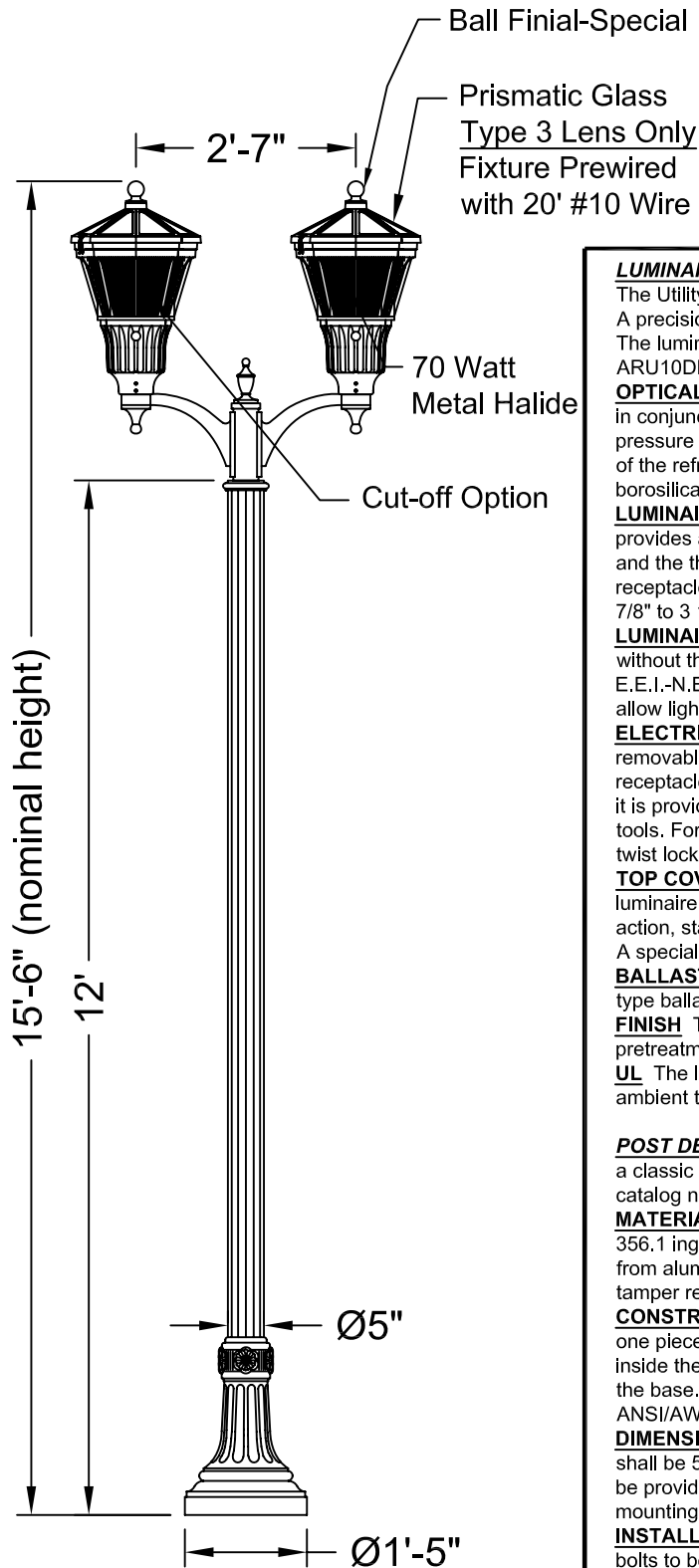
POST DESCRIPTION The lighting post shall be all aluminum, one-piece construction, with a classic tapered and fluted base design. The shaft shall be Ø5" fluted. The post shall be catalog number NY12F5/17-CA/RAL6007.

MATERIALS The base shall be heavy wall, cast aluminum produced from certified ASTM 356.1 ingot per ASTM B-179-95a or ASTM B26-95. The straight shafts shall be extruded from aluminum, ASTM 6061 alloy, heat treated to a T6 temper. All hardware shall be tamper resistant stainless steel. Anchor bolts to be completely hot dip galvanized.

CONSTRUCTION The shaft shall be double welded to the base casting and shipped as one piece for maximum structural integrity. The shaft shall be circumferentially welded inside the base casting at the top of the access door, and externally where the shaft exits the base. All exposed welds below 8' shall be ground smooth. All welding shall be per ANSI/AWS D1.2-90. All welders shall be certified per Section 5 of ANSI/AWS D1.2-90.

DIMENSIONS The post shall be 14' in height with a 17" diameter base. The shaft diameter shall be 5". At the top of the post, an integral 3" O.D. tenon with a transitional donut shall be provided for luminaire mounting.

INSTALLATION The post shall be provided with four, hot dip galvanized L-type anchor bolts to be installed on a 12" diameter bolt circle. A door shall be provided in the base for anchorage and wiring access. A grounding screw shall be provided inside the base opposite the door.



**FIXTURE AND POLE TO MEET
PACIFICORP STANDARD**

CATALOG #S:

HOLOPHANE-NY12F5/17-CA/RAL6007

HOLOPHANE-ARU70DMH12RAL6007G3 C -BALL FINIAL-H

HOLOPHANE-ACA/2-CA/RAL6007

Highland City Arterial Standard

DRW: ACH

DATE: 9-15-06

PAGE #: 2 of 2

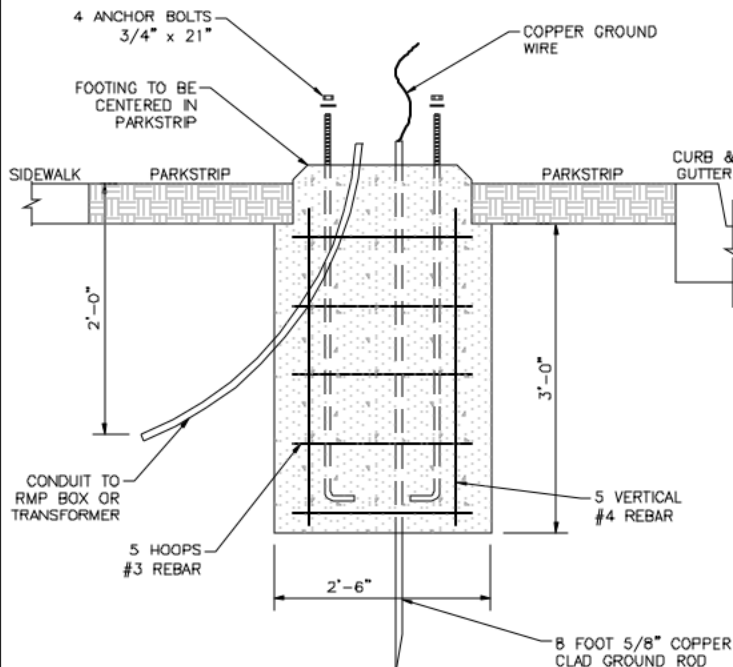
REV: 4

NOTES:

1. ALL LIGHTS SHALL BE 120V.
2. WIRE NUT, 10-12, BLUE, WET LOCATION TYPE WITH SILICONE INSIDE.
3. GROUND CONNECTOR.
4. CONDUCTOR, 8'-5/8" SOLID, CU, BARE SOFT DRAWN.
5. IN-LINE FUSE HOLDER, URD, INSULATED ENDS.
6. FUSE, 10A 600 V KTK, FNM, OR EQUIVALENT.
7. JUNCTION BOX, UNDERGROUND, STREET LIGHT, SMALL PLASTIC, FOR NO OR LOW TRAFFIC AREA, * BOX SHOULD BE PLACED AT GRADE LEVEL, AS CLOSE TO BASE AS POSSIBLE.
8. JUNCTION BOX, UNDERGROUND, POLYMER CONCRETE COVER OR CONCRETE BOX WITH STEEL COVER, TO BE USED IN HIGH TRAFFIC AREAS.
* BOX SHOULD BE PLACED AT GRADE LEVEL, AS CLOSE TO BASE OF POLE AS POSSIBLE NOT IN SIDEWALK OR CURB.
** CONCRETE BOX WITH STEEL COVER TO BE USED FOR ROADWAY OR VERY HIGH TRAFFIC AREAS.
9. CLAMP, GROUND ROD, 5/8"x8" COPPER WELD/BONDED CU.
10. MOW STRIP, MADE OF CONCRETE, TUBE FORM, TYPICALLY 2"-4" WIDER THAT BASE OF POLE, FILLED WITH READY MIX CONCRETE AND LEVELED TO BASE OF POLE, 8" DEEP WITH #4 REBAR RING IN MIDDLE DEPTH.
* MOW STRIP AROUND LIGHT POLES IS TO PROTECT AGAINST DAMAGE FROM EDGE TRIMMERS, LEVEL TO TOP BACK OF CURB.
11. HELIX FOUNDATION LIGHT POLES SHALL NOT BE PERMITTED IN HIGHLAND CITY FOR THE POLES.
12. ALL CONTRACTORS INSTALLING LIGHT POLES IN HIGHLAND SHALL BE RESPONSIBLE FOR COORDINATION WITH ROCKY MOUNTAIN POWER AND HIGHLAND CITY WITH AS-BUILT PLANS SO THEY WILL BE INCORPORATED WITH BLUE STAKES FOR IDENTIFICATION. PROOF OF COMPLETION WILL BE REQUIRED BEFORE POLES ARE SIGNED OFF.
13. UNDERGROUND WIRING FOR STREET LIGHTING SHALL BE INSTALLED AS PER NEC, BURIED AT A MINIMUM DEPTH OF 18" WHEN INSTALLED WITH DIRECT BURIAL CABLE FROM POWER SOURCE, DIRECT BURY CABLE SHALL BE INSTALLED PERPENDICULAR TO CURB AND THEN RUNNING PARALLEL WITH CURB TO STREETLIGHT, WITH PLACEMENT OF WIRE A MAXIMUM DISTANCE OF 8" FROM TBC.
14. TYPE OF UNDERGROUND CABLE FOR STREET LIGHTING SHALL ALSO BE NEC APPROVED COPPER #6 OR #8 LISTED FOR DIRECT BURIAL USE.
15. THE WIRING FOR POLES SHALL BE INSTALLED WITH A BREAKAWAY FUSE AT THE BASE OF THE POLE TO PROTECT FROM POSSIBLE ELECTROCUTION IF POLE WERE TO FALL FOR ANY REASON. ON RUNS GREATER THAT 15' IN LENGTH, A JUNCTION BOX SHALL BE INSTALLED WITH A BREAKAWAY FUSE AS CLOSE AS POSSIBLE TO BASE OF POLE.
16. ALL WIRING RUNNING FROM POWER SOURCE TO LIGHT NEEDS TO BE PLACED WITHIN A RECORDED EASEMENT SO THE CITY CAN MAINTAIN THEM.

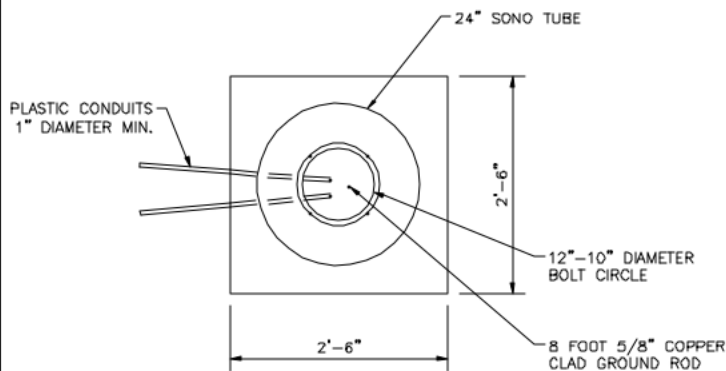
NOTES:

1. THREE WIRE COPPER CONDUCTOR (8-3/C TYPE TC 600V VNTC SUN RES DIR BUR METHOD 4 CABLE OR EQUIVALENT) SHALL BE USED ON SINGLE POLE INSTALLATIONS (1-BLACK 2-WHITE 3-GREEN)--COPPER CABLE ONLY--.
2. WIRE CONNECTORS IN HAND HOLE SHALL BE MADE BURNDY YC8L12 ELECTRICAL CONNECTORS, HSTO 4-48-5 HEAT SHRINK OR EQUIVALENT SHALL BE USED TO COMPLETE WIRE CONNECTIONS.
3. BURNDY KA25U 14-1/0 AWG AL/CU MECHANICAL LUGS OR EQUIVALENT SHALL BE USED TO CONNECT THE GROUND WIRE TO THE GROUND CLIP INSIDE THE HAND HOLE.
4. A GOULD SHAWMUT IN LINE FUSE HOLDER WITH/ BOOT #GEB-11-11-B AND AMP OTMIS GOULD FUSE OR EQUIVALENT SHALL BE INSTALLED INSIDE THE JUNCTION BOX OR TRANSFORMER CONNECTION TO THE HOT LEG OF THE POWER CABLE, SHALL BE CORRELATED BETWEEN CONTRACTORS AND ROCKY MOUNTAIN POWER.
5. STREET LIGHT POLE SHALL NOT BE INSTALLED IN A MANNER THAT WILL HINDER THE OPERATION OF FIRE HYDRANTS OR UNDERGROUND WATER SYSTEM ISOLATION VALVES.
6. INSTALLATIONS WITHIN CLOSE PROXIMITY TO TREES SHALL BE AVOIDED UNLESS APPROVED BY THE PROJECT MANAGER.
7. ALL WIRE WHICH IS INSTALLED UNDER SIDEWALK, DRIVEWAYS, OR OTHER PERMANENT STRUCTURES ARE REQUIRED TO BE PLACED IN CONDUIT.
8. POLE IS TO BE SET PLUMB, THE POLE SHALL BE INSTALLED WITHIN 1/4 DEGREE OF VERTICAL.



NOTE:
IN-LINE WATERTIGHT FUSE HOLDERS
REQUIRED AT CONNECTION POINT IN BASE
OF LIGHT LITTLEFUSE #WPB1 OR EQUAL.

LIGHT POLE DETAIL
SCALE: NTS



NOTE:
GROUND ROD AND PLASTIC CONDUITS
MUST BE LOCATED WITHIN A 3" RADIUS
FROM THE CENTER OF BOLT CIRCLE.

PLAN VIEW
SCALE: NTS

STATEMENT OF USE

THIS DOCUMENT AND ANY ILLUSTRATIONS HEREON ARE PROVIDED AS STANDARDS AND CONSTRUCTION DETAILS WITHIN HIGHLAND CITY. DEVIATION FROM THIS DOCUMENT REQUIRES APPROVAL OF HIGHLAND CITY. HIGHLAND CITY CORP. CAN NOT BE HELD LIABLE FOR MISUSE OR CHANGES REGARDING THIS DOCUMENT.

FILE: HIGHLAND STD DRAWING

DRAWN BY: JMM
DESIGN BY: CRW
CHECKED BY: TMT



HIGHLAND CITY
PUBLIC WORKS AND ENGINEERING

STREET LIGHT BASE DETAIL

STD DWG #

U-04

NO. REVISION DESCRIPTION BY APR. DATE LAST UPDATED: 2/9/2015