STREET CLASSIFICATION	POLE TYPE & HEIGHT	MOUNTING HEIGHT	MAST ARM TYPE AND LENGTH			
Local street w/ planter strip	Direct-bury 2-piece fiberglass composite (Bronze) 30'	25'	8" x 2.375" OD aluminum, (Bronze finish) Other length per photometric plan			
Local street w/ curb-tight sidewalk	Direct-bury 2-piece fiberglass composite (Bronze) 30'	25'	6 ft. x 2.375" OD aluminum, (Bronze finish) Other length per photometric plan			
Collector and Neighborhood Collector	Direct-bury 2-piece Fiberglass Composite (Grey) 35'	30'	6ft. X 2.375" OD aluminum Other length per photometric plan			
Minor & Major Arterial, Residential Minor Arterial	Direct-bury 2-piece Fiberglass Composite (Grey) 35'	30'	6ft. X 2.375" OD aluminum Other length per photometric plan			
Highway 26 (ODOT)	AASHTO-spec tapered steel pole per ODOT std. dwg. TM629 ¹	per photometric plan	AASHTO-spec steel mast arm per ODOT std. dwg. TM629			
Urban Renewal District	Hadco 18' Decorative Aluminum (Dark Green) CP0606	16.5'	Hadco Shepherd's Crook (Dark Green) CA0606			
Pedestrian Path/Walkway ²	Acuity Brands Hydrel Bollard 3100C H42 MVOLT FT GN	N/A	N/A			

¹ requires poured-in-place pole foundation and breakaway assy. per ODOT std. dwg. TM630 ² bollard lighting shall be connected to the streetlight circuit with a separate junction box and fuse

- Provide submittals for all streetlighting equipment and materials for City review and approval. Refer to attached charts for City-approved luminaire and streetlight control equipment.
- All materials used (unless otherwise noted) shall be from PGE's Approved Street Lighting Equipment list (latest revision).
- Luminaires shall be equipped with 7-wire 'control-ready' receptacle compatible with specified controller.

City of Sandy - Streetlighting Guidelines

- Luminaires (except in Urban Renewal District) shall be Type 2 roadway distribution and must be flat lens, 90° fullcutoff to be dark-sky compliant.
- Metered streetlight services (when required) Coordinate connection to PGE system with the PGE Service and Design Coordinator (SDC) for the project.
- Option 'C' (no meter) streetlight services Coordinate connection to PGE circuit with PGE Outdoor Lighting Services.
- Developments with six or fewer lights on a circuit <u>that cannot be extended in the future</u> shall be PGE Option 'C'. Connection to PGE system shall be made with a watertight, 30A, 600V fuseholder (Littlefuse LEX) in a 17"x30"x18" composite splice box marked 'STREETLIGHTING" or "LIGHTING". Splice box shall be placed in the public right-ofway (not in a PUE) a minimum of 13 feet from PGE-designated point of connection.
- Developments with seven or more lights and street light circuits with six or fewer lights <u>that can be extended in the future</u> (street extensions, later development phases, etc.) shall be PGE Option 'C'. A service cabinet and test switch is required. Refer to ODOT standard details TM, 300, 301 and 302 for service/control cabinets. The cabinet type is determined by the voltage (nominal 240V) and the number of circuits.
- Service/controller cabinets shall be ODOT Type C pedestal or Cooper/Eaton B-line CUP-4111. All cabinets shall be stainless steel, painted with exterior enamel over manufacturer's standard prime coat or powder-coated. Painted or powder-coated cabinets shall be Pine Green color (RAL 6028).
- Circuits (six or fewer streetlights) that that cannot be extended in the future do not require a service cabinet.
- A junction box is required at each streetlight. Junction boxes shall be placed in the right-of-way (not in a PUE) behind or beside the pole. The long axis of the junction box shall be parallel or perpendicular to the curb. On streets with setback sidewalks the junction box shall be placed in the planter strip. On streets with curb-tight sidewalks the junction box shall be placed in the sidewalk. Junction boxes shall be polymer concrete (minimum 12"x24"x12" in size) rated for Tier 22 loading and marked "STREETLIGHTING" OR "LIGHTING" on the cover.
- A watertight, 10A, 600V fuseholder (Littlefuse LEX, 2-pole breakaway, no substitutions) shall be placed in each junction box with sufficient slack to allow removal from the junction box a minimum of 18" in any direction.

City of Sandy - Streetlighting Guidelines

- Fixture spacing shall be based on IESNA standards for roadway lighting, Type II roadway distribution. Submit photometric plan (isoline) for review. Whenever possible streetlights should be placed on lot lines or in curb returns to avoid glare, conflicts with driveways and franchise utilities.
- Fixture output, spacing, mounting height and mast arm lengths for arterial streets may be varied based on roadway geometry and IESNA standards for roadway lighting. Submit photometric plan (isoline) for review.

	Nominal HPS	Abbreviated Model	Initial	Lumen			Standard			Utility	BUG				Power	THD at full	Integral	L70 LED	L70
CREE RSW SERIES	Wattage	Number	Lumens	Maint.	CRI	ССТ	Warranty	Available Shields	Watts	Label	Rating	Weight	Housing	Door	Factor at	load	Surge	Life (hrs)	Driver
															full load		Supressi		Life
	70W HPS	RSWS-3ME-5L-X2	4,105	<u> </u>	70	3000 K	10 yrs	Back/Cul-De-Sac/Front	36	40) 1-0-1	9.4 lbs	Composite	Tool-less	> 0.9	< 20%	10kV	100,000	50,000
	100W HPS	RSWM-3ME-9L-X4	7,750	100%	70	3000 K	10 yrs	Back/Cul-De-Sac/Front	65	70	2-0-2	15.6 lbs	Composite	Tool-less	> 0.9	< 20%	10kV	100,000	50,000
	150W HPS	RSWL-3ME-14L-X2	9,250	97%	70	3000 K	10 yrs	Back	81	80	3-0-3	20.2 lbs	Composite	Tool-less	> 0.9	< 20%	10kV	100,000	50,000
	175W MV	RSWM-3ME-9L-X4	7,750	100%	70	3000 K	10 yrs	Back/Cul-De-Sac/Front	65	70	2-0-2	15.6 lbs	Composite	Tool-less	> 0.9	< 20%	10kV	100,000	50,000
	200W HPS	RSWL-3ME-14L-X6	13,400	97%	70	3000 K	10 yrs	Back	120	120	3-0-3	20.2 lbs	Composite	Tool-less	> 0.9	< 20%	10kV	100,000	50,000
	250W HPS	RSWX-3ME-24L-X4	17,800	97%	70	3000 K	10 yrs	N/A	156	160	3-0-5	28.8 lbs	Composite	Tool-less	> 0.9	< 20%	10kV	100,000	50,000
	400W HPS	RSWX-3ME-32L-X7	26,000	100%	70	3000 K	10 yrs	N/A	217	220	3-0-5	28.8 lbs	Composite	Tool-less	> 0.9	< 20%	10kV	100,000	50,000

UBICQUIA UBICELL	Model Number	ADD	ADD	ADD	Vendor Contact	
	UBIQ UBC-20-0-01-NA-01-2-GY (Ubicell 2.0 North America AT&T, GREY, PWM, DIM. EXTERNAL SENSOR, PE CELL BACKUP CONTROL NODE	10 YR-WARRANTY ADDER (upgrade from standard warranty)	ADD 10 YR-HW-CONNECTIVITY (10 years LTE connectivity)	10 YR-HW-UBIVU (10 year software liecense)	Form Lighting and Controls quotes@formlc.com	