WATER | ENERGY | LIFE

CITY OF RIVERSIDE PUBLIC UTILITIES

CONDUITS AND FITTINGS

UGS

Primary System				
Conduit Construction Guidelines	PVC Sch. 40	Fully Encased PVC Sch. 40	PVC Sch. 80	Fiberglass Sweep
1. Buried Conduit for Commercial & Residential: a. Straight Conduits b. Horizontal Bends, 12.5' Min. Bend Radius	X	See Note 7		
2. Conduit(s) under a Building/Structure		X		
3. Riser Conduits			X	
4. Riser/Vertical Sweep				X

Secondary and Communication System				
Conduit Construction Guidelines	PVC Sch. 40	Fully Encased PVC Sch. 40	PVC Sch. 80	Fiberglass Sweep
1. Buried Conduits for Commercial & Residential: a. Straight Conduits b. Horizontal Bends - 3" Dia. Conduit and smaller 3' Min. Bend Radius - 4" Dia. Conduit & larger = 12.5' Min. Bend Radius	X	See Note 7		
2. Conduit(s) Inside or along Building/Structure wall (See Note 8)	X			
3. Conduit(s) under a Building/Structure		X		
4. Riser Sweeps at House, Building (See Note 8): a. Single Family Residential b. Commercial Building c. Equipment Structure	X			
5. Riser Sweeps for Communication (2" Conduit)	X			
6. Riser Sweeps at Pole for Secondary (3" & Larger)				X
7. Fiber Service Conduit to Home (3/4" Dia.)			X	

Street Light			
Conduit Construction Guidelines	PVC Sch. 40	H.D.G. STD	Fiberglass Sweep
1. Buried Conduits for Commercial & Residential: a. Straight Conduits b. Horizontal Bends, 3' Radius Min.	X		
2. Riser Sweep at Equipment Structure for 3" Conduit (See Note 8)	X		
3. Riser Sweep at Pole for 1.5" Conduit		X	
4. Riser Sweep at Pole for 3" Conduit			X

Notes:
1. See UGS-115.1, and UGS-116 for riser bend requirements.
2. Adapters shall be standard types subject to Department approval.
3. No materials labeled as "pipe" will be accepted as conduit.
4. Reference NEMA TC-2 & UL 651 for Sch.40 & Sch.80 Standards.
5. All Conduits & fittings shall be rated for use with 90°C conductors.
6. No flex duct or offsets are allowed.
7. Four or more conduits shall be fully encased in concrete unless otherwise specified.
8. Sch.80 PVC shall used in lieu of Sch. 40 in areas exposed to incidental physical damage.

REVISION: Updated Streetlight H.D.G Conduit from 1.0" Dia. to 1.5" Dia.

CHECKED BY (ENGINEERING): JRS

CHECKED BY (FIELD): JJ

PREPARED / REVISED BY: SJR

APPROVED BY: *Rudy Villavicencio* DATE: 03/28/25