CONDUITS AND FITTINGS

UGS

DUCT MATERIAL AND TYPE MINIMUM REQUIREMENTS

CONDUIT MATERIAL TYPE	PVC SCH 40	FULLY ENCASED EB-35 / DB-100	FIBERGLASS	H.D.G. STD	PVC SCH 80
A. Primary System					
1. Straight Ducts:					
a. Concrete Encased (4 or more) △8		X			
b. Direct Burried					
- Commercial	X				
- Residential					
- 4" or Larger Duct	X				
2. Riser Bends			X		
3. Riser Conduits					X
4. Horizontal Bends					
a. Concrete Encased (4 or more) △8		X			
b. Direct Burried	X				
5. Vertical Bends			X		
B. Secondary and Communication System					
1. Straight Ducts:					
a. Concrete Encased (4 or more) △8		X			
b. Direct Burried					
- Commercial	X				
- Residential					
- 3" Duct	X				
- 4" Duct	X				
2. Riser Bends					
a. Riser Poles △8			X		
b. Riser Bends Communication 2"					X
3. Riser Conduits at House or Building.					
a. Single Family Residential △8	X				
b. Commercial Building (3 or less) △8	X				
c. Conduit(s) Under a Building.		X			
4. Horizontal Bends					
a. Concrete Encased (4 or more) △8		X			
b. Direct Burried	X				
C. Street Light					
1. 1" Riser Bends at Pole △8				X	
2. Other Bends	X				
3. Straight Ducts	X				
4. 3" Riser Bend △8			X		

Notes:

1. Sweep minimum radius:
   A. Primary ducts runs = 12.5' R
   B. Secondary duct runs 4" & larger = 12.5' R.
   C. Secondary duct runs 3.5" and smaller = 3' R.
2. See UGS-115.1, and UGS-116 for riser bend requirements.
3. Adapters shall be standard types subject to Department approval.
4. No materials labeled as "pipe" will be accepted as conduit.
△8 5. Reference Standards are NEMA TC-2 for SCH. 40 & 80, NEMA TC-6 for EB-35 and NEMA TC-8 for DB-100.
6. No flex duct or offsets are allowed.
△8 7. Four or more conduits shall be fully encased in concrete.

REVISION: Updated Notes, Added DB-100
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APPROVED BY: Jorge Lemaire
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PREPARED BY: JRS
CHECKED BY: BM