



MIN. DIMENSION EXCAVATION		
PIPE		TRENCH WIDTH BEYOND PIPE "X" (FT)
DIA.	MIN. SL.	
4"	0.0100	1.0
6"	0.0060	
8"	0.0040	
12"	0.0022	1.5
18"	0.0012	2.0
24"	0.0008	2.5

FILTER MATERIAL SPECIFICATIONS		
SIEVE SIZE	PERCENT RETAINED ON SEIVE	
	TYPE B D = 4" TO 12"	TYPE C D > 12"
1-1/2	-	0 - 10
3/4	0 - 10	20 - 40
3/8	15 - 35	-
No. 4	35 - 55	40 - 60
MATERIAL FINER THAN No. 4 SIEVE		
No. 4	-	
20	35 - 65	
50	75 - 100	

**NOTES:**

- FILTER FABRIC TO BE PLACED AROUND FILTER MATERIAL.
- FILTER FABRIC TO BE INCLUDED IN PRICE OF PIPE.
- FILTER FABRIC MATERIAL TO BE D-9-6200 OR APPROVED EQUAL
- PIPE APPROVED FOR USE AS SUB-DRAIN. (ONLY ONE TYPE OF PIPE TO BE USED)
  - PERFORATED CORRUGATED STEEL PIPE (ASPHALT COATED)
  - SMOOTH-WALL PERFORATED POLYVINYL CHLORIDE PIPE (PVC)
  - PERFORATED HIGH DENSITY POLYETHYLENE PIPE (HDPE) (TO BE USED IN PARKWAY)
- DITCH PROTECTION REQUIRED IF DITCH IS OVER 5'-0" IN DEPTH.

FEBRUARY 2018

NOT TO SCALE

REVISIONS:



**City of Benbrook**  
 911 Winscott Road  
 Benbrook, Texas 76126  
 817-249-3000

**SUB - DRAIN  
 BEHIND CURB  
 SD-001**