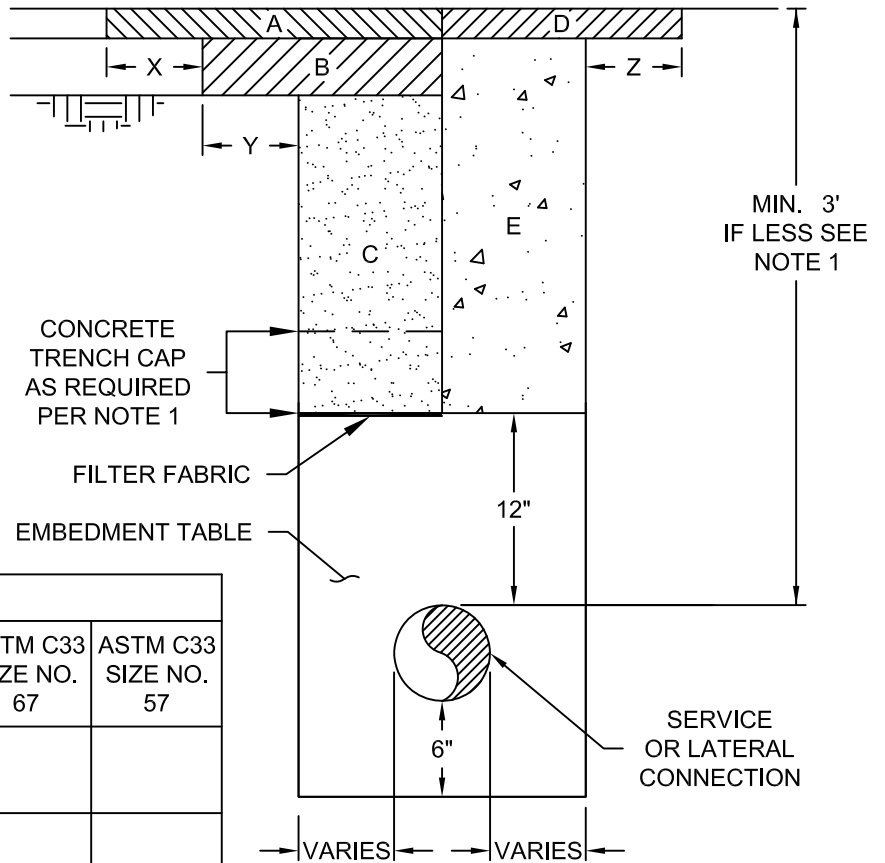


SELECT BACKFILL ← | → FLOWABLE FILL



SEE DIMENSION AND REQUIREMENTS FOR LAYERS ON SHEET 2.

EMBEDMENT				
PIPE SIZE	BEDDING SAND	MODIFIED GRADE 5 GRAVEL	ASTM C33 SIZE NO. 67	ASTM C33 SIZE NO. 57
1" COPPER OR 1" POLYETHYLENE	ALLOWED			
2" - 3" PVC PIPE	ALLOWED	ALLOWED		
ALL PIPE 4" AND GREATER			ALLOWED	ALLOWED

**NOTES:**

1. WHEN DEPTH OF COVER IS LESS THAN 3' FROM EXISTING OR PROPOSED SURFACE A CONCRETE TRENCH CAP WILL BE INSTALLED WITH A MINIMUM THICKNESS OF 6" CLASS A (3000 PSI) CONCRETE PLACED ABOVE EMBEDMENT AS DEPICTED IN THIS DETAIL. THICKNESS WILL BE DETERMINED BY ENGINEER AND NOT BE LESS THAN A MINIMUM OF 6". WHEN DEPTH OF COVER IS 3' OR GREATER FROM EXISTING OR PROPOSED SURFACE A FILTER FABRIC WILL BE INSTALLED ABOVE ALL EMBEDMENT EXCEPT BEDDING SAND.
2. RESTORE ALL DISTURBED SURFACES ABOVE AND SURROUNDING THE TRENCH TO EXISTING CONDITION AND ELEVATION. RESTORATION WORK IS SUBSIDIARY TO SERVICE LATERAL WORK.

The City of San Marcos Engineering and Capital Improvements	CURRENT AS OF 1/1/2020	SERVICE AND LATERAL CONNECTION TRENCH DETAIL	
RECORD COPY SIGNED BY LAURIE MOYER, P.E.	1/1/2020 ADOPTED	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.	STANDARD NO. <b>510S-S&amp;L-SM</b> 1 OF 2

<b>SELECT BACKFILL</b>			
	ASPHALT PAVEMENT X = 6" , Y = 6"	CONCRETE PAVEMENT X = 6" , Y = 6"	OUT OF PAVEMENT X = 0 , Y = 0
A (SEE NOTE 1)	TYPE D HMAC MATCH EXISTING ASPHALT THICKNESS 2.5" MIN.	3,600 PSI CONCRETE MATCH EXISTING THICKNESS 6" MIN. WITH #4 REBAR 18"O.C. BOTH WAYS. 24" TIE BAR 18 O.C. 12" INTO EXISTING PAVEMENT.	NATURAL GROUND WILL HAVE 6" OF TOP SOIL, SEEDED AND A RETENTION BLANKET INSTALLED ON TOP. ALL OTHER SURFACE STRUCTURES SHALL BE REPLACED TO MATCH EXISTING CONDITIONS.
B	TYPE B HMAC MATCH EXISTING BASE THICKNESS 10" MIN.	TYPE B HMAC MATCH EXISTING BASE THICKNESS 5" MIN.	IN AND NEAR FLOOD PLAIN OF ALL STREAMS AND WATERCOURSES, UNDER OR ADJACENT TO UTILITIES, STRUCTURES, TWO FEET FROM PAVEMENT ETC. SELECT BACKFILL WILL BE COMPACTED TO NO LESS THAN 95% NOR MORE THAN 102% OF THE DENSITY ACCORDING TO TEX. 114E AT A MOISTURE CONTENT OF -2% TO +3% OF OPTIMUM, UNLESS OTHERWISE DIRECTED BY CITY. ALL OTHER LOCATIONS WILL BE COMPACTED TO 90% OF MAX DENSITY.
C	SELECT BACKFILL WILL BE COMPACTED TO NO LESS THAN 95% NOR MORE THAN 102% OF THE DENSITY ACCORDING TO TEX. 114E AT A MOISTURE CONTENT OF -2% TO +3% OF OPTIMUM.		

<b>FLOWABLE FILL</b>			
	ASPHALT PAVEMENT Z = 6"	CONCRETE PAVEMENT Z = 6"	OUT OF PAVEMENT Z = 0
D (SEE NOTE 1)	TYPE D HMAC MATCH EXISTING ASPHALT THICKNESS 2.5" MIN.	3,600 PSI CONCRETE MATCH EXISTING THICKNESS 6" MIN. WITH #4 REBAR 18"O.C. BOTH WAYS. 24" TIE BAR 18 O.C. 12" INTO EXISTING PAVEMENT.	NATURAL GROUND WILL HAVE 6" OF TOP SOIL, SEEDED AND A RETENTION BLANKET INSTALLED ON TOP. ALL OTHER SURFACE STRUCTURES SHALL BE REPLACED TO MATCH EXISTING CONDITIONS.
E	FLOWABLE FILL PER CITY 402S SPECIFICATION.		

<b>The City of San Marcos</b> Engineering and Capital Improvements	<b>CURRENT AS OF</b> 1/1/2020	<b>SERVICE AND LATERAL CONNECTION TRENCH DETAIL</b>	
RECORD COPY SIGNED BY <u>LAURIE MOYER, P.E.</u>	1/1/2020 ADOPTED	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.	STANDARD NO. <b>510S-S&amp;L-SM</b> 2 OF 2