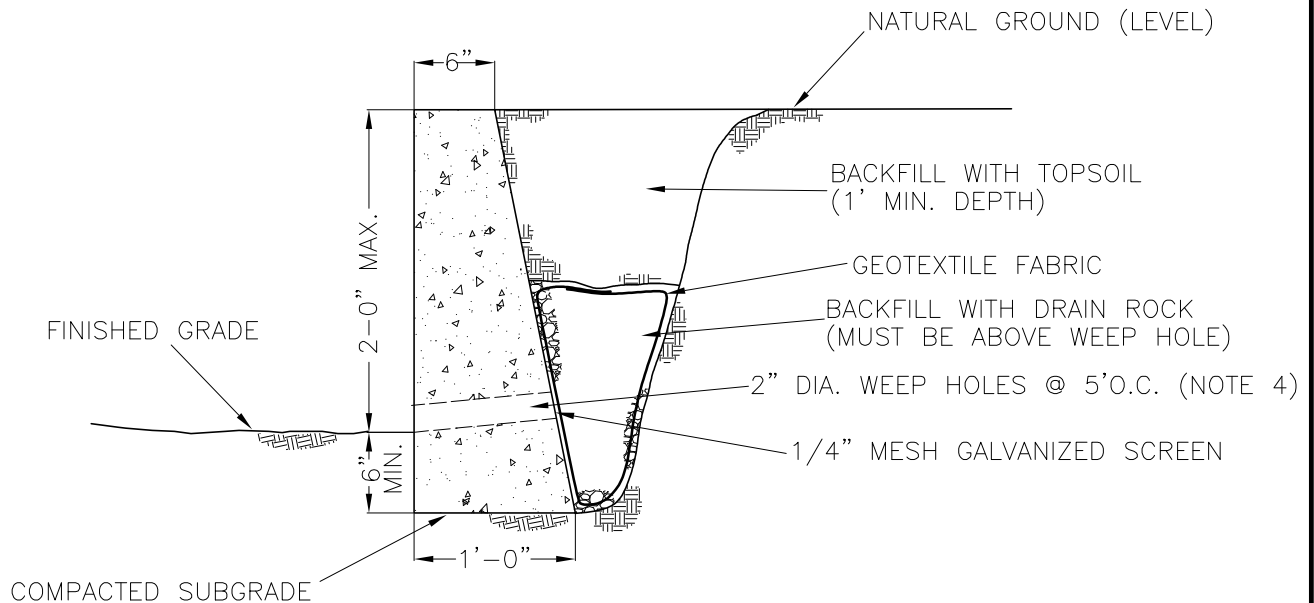


**CITY OF SALEM
DEPARTMENT OF PUBLIC WORKS
STANDARD DRAWINGS
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Plan No.	Title	Date
Structures		
501	Retaining Wall—Height of Wall 2'-0" or Less	01-07-2000
502	Retaining Wall—Height of Wall 2'-0" to 4'-0"	09-15-1999
505	Utility Vault (Cast in Place)	09-15-1999
506	Meter and Vault Size and Specifications	09-15-1999



DESIGN NOTES

LEVEL BACKFILL

γ = 100 P.C.F.

$K\gamma$ = E.F.W.=40 P.C.F.

f'_c = 3000 P.S.I. CONC.

CONSTRUCTION NOTES

1. CONTRACTION JOINT: SCORE A 3/4" DEEP "V" NOTCHED GROOVE THE FULL HEIGHT OF THE EXPOSED FACE, ACROSS THE TOP, AND 6" DOWN THE BACK OF THE WALL. INSTALL "TEE BAR" CONTRACTION JOINTS TO SEPARATE THE LARGE AGGREGATE IN THE TOP 6" OF THE WALL AT THE "V" NOTCHED GROOVE. JOINTS SHALL BE UNIFORMLY SPACED AT 10' TO 15' CENTERS.
2. CONSTRUCTION JOINT: IF WALL IS TO BE POURED IN SECTIONS, USE 2-24", NO.4 REINFORCING BARS EXTENDED 12" INTO EACH SECTION.
3. WHEN EXPOSED WALL HEIGHT IS LESS THAN 2 FEET MAINTAIN 6" TOP DIMENSION AND REDUCE BASE DIMENSION TO MAINTAIN 1:5 BATTER ON BACK OF WALL.
4. AS ALTERNATE TO WEEPHOLES, USE CONTINUOUS 3-INCH DIA. PERFORATED PIPE WITH OUTLET TO APPROVED POINT OF DISPOSAL.

Approved Karl O. Guster 1-7-00
City Engineer Date

No.	Description	Date	By	Appr
3	REVISED FABRIC	1-00	I.D.F.	
2	ADDED GEOTEXTILE FABRIC AND			
1	PERF. PIPE ALTERNATE	3/99		
REVISION				

CITY OF SALEM
DEPARTMENT OF PUBLIC WORKS

STANDARD PLAN
RETAINING WALL
HEIGHT OF WALL 2'-0" or LESS

DRAWN BY GS & SP

CHECKED BY D.W.

NO.501

1. OVERLAP ALL BAR SPLICES 12"
2. SEE JOINT DETAIL BELOW

WALL HEIGHT CANNOT EXCEED 30" ABOVE CURB
GRADE WHEN WALL IS WITHIN 30' OF ANY PROPERTY
CORNER ADJACENT TO A STREET INTERSECTION OR
WITHIN 10' OF ANY ALLEY-STREET INTERSECTION.
(SALEM CITY CODE SECTION 110.770)



2:1 MAX. SURCHARGE ON BACKFILL
K_l = E.F.W.=40 P.C.F.
 γ = 100 P.C.F.
f'_c = 3,000 P.S.I. CONC.'
f_s = 40,000 P.S.I.

NOTE: AS ALTERNATE TO 2" WEEPHOLES USE CONTINUOUS 3-INCH DIA. PERFORATED PIPE WITH OUTLET TO APPROVED POINT OF DISPOSAL.



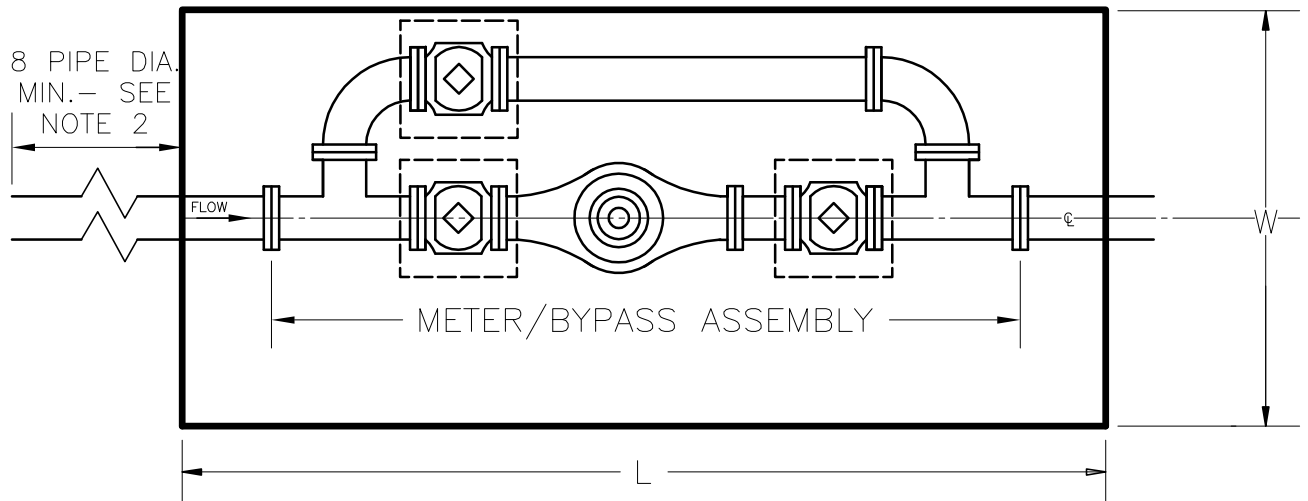
PLACE EXPANSION JOINTS AT APPROXIMATELY 90' CENTERS THROUGH WALL AND SIDEWALK PORTION OF WALL, AND CONTRACTION JOINTS AT APPROXIMATELY 30' CENTERS IN WALL ONLY.

Approved Karl O. Genter 9-15-99
City Engineer Date

STANDARD PLAN
RETAINING WALL
HEIGHT OF WALL 2'-0" to 4'-0"

NO.502

	DRAIN ROCK IN LIEU OF PEA GRAVEL			
	ALLOWED PERF. PIPE IN LIEU OF WEEP HOLES			
	ADDED GEOTEXTILE FABRIC			
No.	Description	Date	By	Appr
REVISION				



METER SIZE	INSIDE DIMENSIONS (MIN) VAULT SIZE		
	L	W	H
3" OR 4" COMPOUND / FIRELINE	8'	6'	7'
6" OR 8" COMPOUND / FIRELINE	10'	8'	7'

NOTES:

1. VAULT SIZING IS FOR METER INSTALLATION ONLY.
2. CONTRACTOR TO INSTALL VAULT AND STRAIGHT RUN OF PIPE WITHOUT JOINTS THROUGH IT. CITY FORCES TO INSTALL METER/BYPASS ASSEMBLY. PIPE SHALL EXTEND IN A STRAIGHT LINE (FROM INSIDE VAULT WALL ON DELIVERY SIDE) AT LEAST THE EQUIVALENT OF 8 PIPE DIAMETERS.
3. VAULT SHALL BE PLACED WITHIN RIGHT-OF-WAY UNLESS OTHERWISE APPROVED.
4. BENDS, CROSSES, AND TEES SHALL BE A MINIMUM OF 5 FEET FROM THE OUTSIDE WALL OF THE VAULT.
5. CENTERLINE OF WATERLINE SHALL BE 24 INCHES ABOVE THE VAULT FLOOR AND RUNNING THROUGH THE CENTERLINE OF THE VAULT.
6. VAULT SHALL HAVE AN 11" X 17" READER LID AND OPENING.
7. MINIMUM ACCESS DOOR SIZE:
 - A. 3-INCH AND 4-INCH METERS-3 FEET BY 3 FEET.
 - B. 6-INCH AND 8-INCH METERS-2 EACH, 3 FEET 6 INCHES WIDE BY 3 FEET LONG.
8. REFER TO STANDARD PLAN NUMBER 505 FOR ADDITIONAL VAULT REQUIREMENTS.

Approved

Karl O. Guster
City Engineer

9-15-99
Date

CITY OF SALEM
DEPARTMENT OF PUBLIC WORKS

STANDARD PLAN
METER AND VAULT
SIZE AND SPECIFICATIONS

DRAWN BY S.G.P.

CHECKED BY D.W.

NO.506

No.	Description	Date	By	Appr
	WATER MAIN TO GO THROUGH CENTERLINE OF VAULT			
	REVISION			