



FOR EXCAVATION IN POOR SOIL OR ROCK: REMOVE UNSUITABLE MATERIAL TO WIDTH AND DEPTH DIRECTED. BEFORE PIPE IS LAID, THE SUBGRADE SHALL BE BACKFILLED WITH AN APPROVED MATERIAL IN 3" LAYERS. EACH LAYER SHALL BE THOROUGHLY TAMPED TO 95% COMPACTION.

NOTES:

1. COMPACTION: BACKFILLS SHALL BE BUILT-UP IN LAYERS AND EACH LAYER SHALL BE THOROUGHLY COMPACTED BEFORE BEGINNING ANOTHER LAYER. LAYERS SHALL BE NO MORE THAN 6" IN DEPTH. PUDDLING WILL NOT BE PERMITTED, NOR WILL FROZEN OR WET MATERIAL BE PLACED IN TRENCHES.
2. COMPACTION STANDARDS: ALL BACKFILL MATERIALS USED SHALL CONTAIN A SUFFICIENT AMOUNT OF MOISTURE FOR PROPER COMPACTION AND THESE MATERIALS SHALL BE COMPACTED AT NOT LESS THAN 95% OF THEIR OPTIMUM COMPACTION FOR ANY SPECIFIC SOIL CLASSIFICATION AS DETERMINED BY THE MODIFIED PROCTOR TEST A STM. D698
3. COMPACTION TESTS: COMPACTION TESTS MAY BE REQUIRED IN EXISTING OR PROPOSED STREETS, SIDEWALKS, DRIVES AND OTHER EXISTING OR PROPOSED PAVED AREAS AT VARYING DEPTHS AND AT INTERVALS AS DETERMINED BY THE ENGINEER WITH A MINIMUM OF ONE TEST PER JOB, AND A MAXIMUM OF ONE REQUIRED TEST FOR EACH 400' OR LESS OF WATER MAIN CONSTRUCTION, UNLESS SOIL CONDITIONS OR CONSTRUCTION PRACTICES, IN THE OPINION OF THE ENGINEER, WARRANT THE NEED FOR ADDITIONAL TESTS.
4. NO BOULDERS OR LOOSE ROCKS PERMITTED IN THE BACKFILL AT THE BOTTOM OF PIPE TRENCH TO 2'-0" ABOVE PIPE.
5. ALL DESIGNS BASED ON FULLY COMPACTED BACKFILL AND UNIFORMLY SUPPORTED PIPE.
7. FOR PAVEMENT CUT REPAIRS SEE DRAWING 109.

ALLOWABLE TRENCH WIDTHS

PIPE SIZE (NOM)	A SIDE CLEARANCE INCH		B DITCH WIDTH INCH				C SHORING WIDTH (ADDITIONAL-INCH)	D CUT REPAIR WIDTH FEET			
	SOIL	ROCK	SOIL		ROCK			SOIL		ROCK	
			MJ	SJ	MJ	SJ		MJ	SJ	MJ	SJ
3/4"-2"	2	6	NA	12	NA	14	AS APPROVED	NA	3.00	NA	3.17
4"	9	12	28	22	28	28	AS APPROVED	4.33	3.67	4.33	4.33
6"	9	12	30	24	30	30	AS APPROVED	4.50	4.00	4.50	4.50
8"	9	12	32	26	32	32	AS APPROVED	4.67	4.17	4.67	4.67
10"	9	12	34	28	34	34	AS APPROVED	4.83	4.33	4.83	4.83
12"	9	12	36	30	36	36	AS APPROVED	5.00	4.50	5.00	5.00
14"	9	12	38	32	38	38	AS APPROVED	5.17	4.67	5.17	5.17
16"	9	12	40	34	40	40	AS APPROVED	5.33	4.83	5.33	5.33
20"	9	12	44	38	44	44	AS APPROVED	5.67	5.17	5.67	5.67
24"	9	12	48	42	48	48	AS APPROVED	6.00	5.50	6.00	6.00
30"	9	12	54	48	54	54	AS APPROVED	6.50	6.00	6.50	6.50
36"	9	12	60	54	60	60	AS APPROVED	7.00	6.50	7.00	7.00
42"	9	12	66	60	66	66	AS APPROVED	7.50	7.00	7.50	7.50
48"	9	12	72	66	72	72	AS APPROVED	8.00	7.50	8.00	8.00

FULTON COUNTY STANDARD DETAIL 103
ALLOWABLE TRENCH WIDTHS

DATE	REVISIONS	DATE	REVISIONS
8/08	NRR		
1/17	TPM		

DGS/DRN/CHKD: CMS
APPROVED: REW
DATE: 12-2-05



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DRAWING NO.
103