

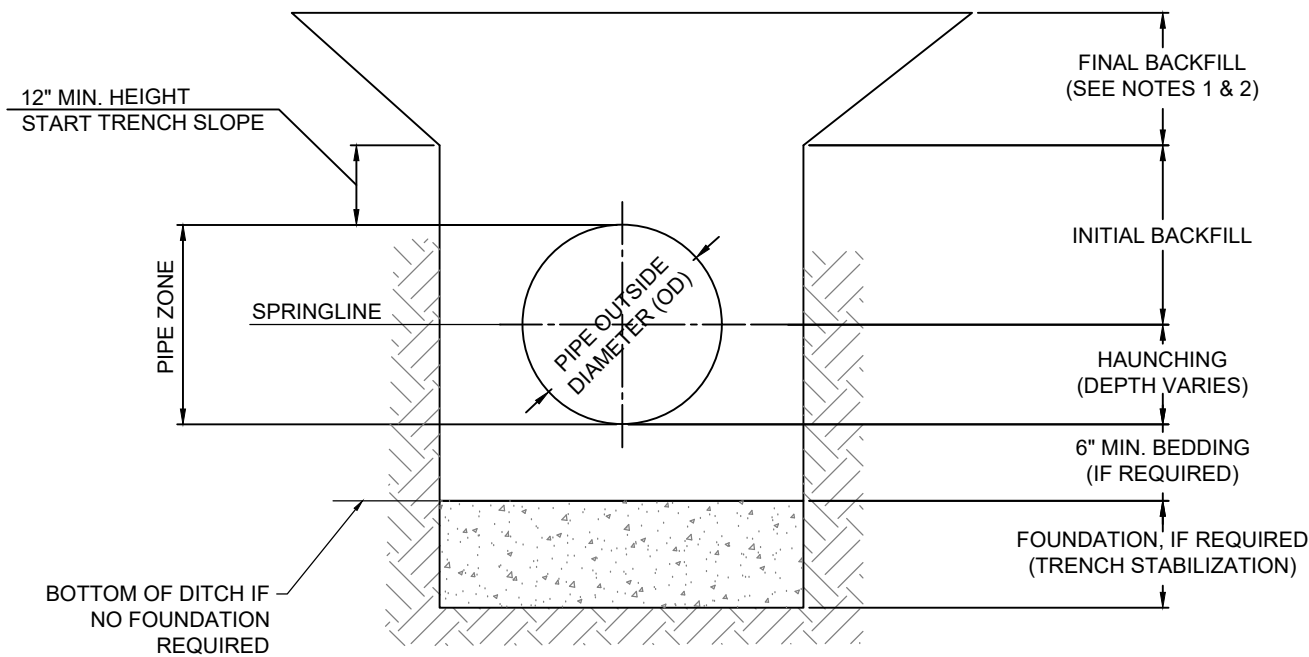
SCORE ASPHALT WITH PAVEMENT SPADE. RAW CONCRETE. CUT BACK AFTER BACKFILLING COMPLETED

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.

TRENCH DETAIL

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 ASTM 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.
6. FOR PAVEMENT CUT REPAIRS SEE DRAWING 109.
7. FOR CONSTRUCTION WITHIN AHJ (AUTHORITY HAVING JURISDICTION) OTHER THAN FULTON COUNTY, BACKFILL AND COMPACTION STANDARDS SHALL BE IN ACCORDANCE WITH THE PERMITTING AGENCY OR AGENCIES.



TRENCH TERMINOLOGY

PIPE SIZE (NOM)	"A" SIDE CLEARANCE (IN.)		"B" DITCH WIDTH (IN.)				"C" SHORING WIDTH (ADDITIONAL-INCH)	"D" CUT REPAIR WIDTH (FT.)			
	SOIL	ROCK	SOIL		ROCK			SOIL	ROCK	SOIL	ROCK
			MJ	SJ	MJ	SJ					
3/4"-2"	2	6	NA	8	NA	14	AS APPROVED	NA	3.00	NA	3.17
4"	9	12	27	25	33	31	AS APPROVED	4.25	4.08	4.75	4.58
6"	9	12	28	28	34	33	AS APPROVED	4.33	4.33	4.83	4.75
8"	9	12	32	30	38	35	AS APPROVED	4.67	4.50	5.17	4.92
10"	9	12	34	32	40	37	AS APPROVED	4.83	4.67	5.33	5.08
12"	9	12	36	34	42	39	AS APPROVED	5.00	4.83	5.50	5.25
14"	9	14	39	36	49	46	AS APPROVED	5.25	5.00	6.08	5.83
16"	9	14	42	38	52	48	AS APPROVED	5.50	5.17	6.33	6.00
20"	9	14	45	42	55	52	AS APPROVED	5.75	5.50	6.58	6.33
24"	9	14	50	48	60	57	AS APPROVED	6.17	6.00	7.00	6.75
30"	9	18	58	54	76	63	AS APPROVED	6.83	6.50	8.33	7.25
36"	9	18	64	61	82	69	AS APPROVED	7.33	7.08	8.83	7.75
42"	9	18	72	67	90	77	AS APPROVED	8.00	7.58	9.50	8.42
48"	9	18	78	73	96	90	AS APPROVED	8.50	8.08	10.00	9.75

FULTON COUNTY STANDARD DETAIL 103

ALLOWABLE TRENCH WIDTHS
WATER MAINS

DATE	REVISIONS	DATE	REVISIONS

DGS/DRN/CHKD: XXX
 APPROVED: XXX
 DATE: XX-X-XX



FULTON COUNTY PUBLIC WORKS
 141 PRYOR ST. ATLANTA, GA. 30303
 404-612-7400 FAX: 404-224-0498

DRAWING NO.

103

95% SUBMITTAL