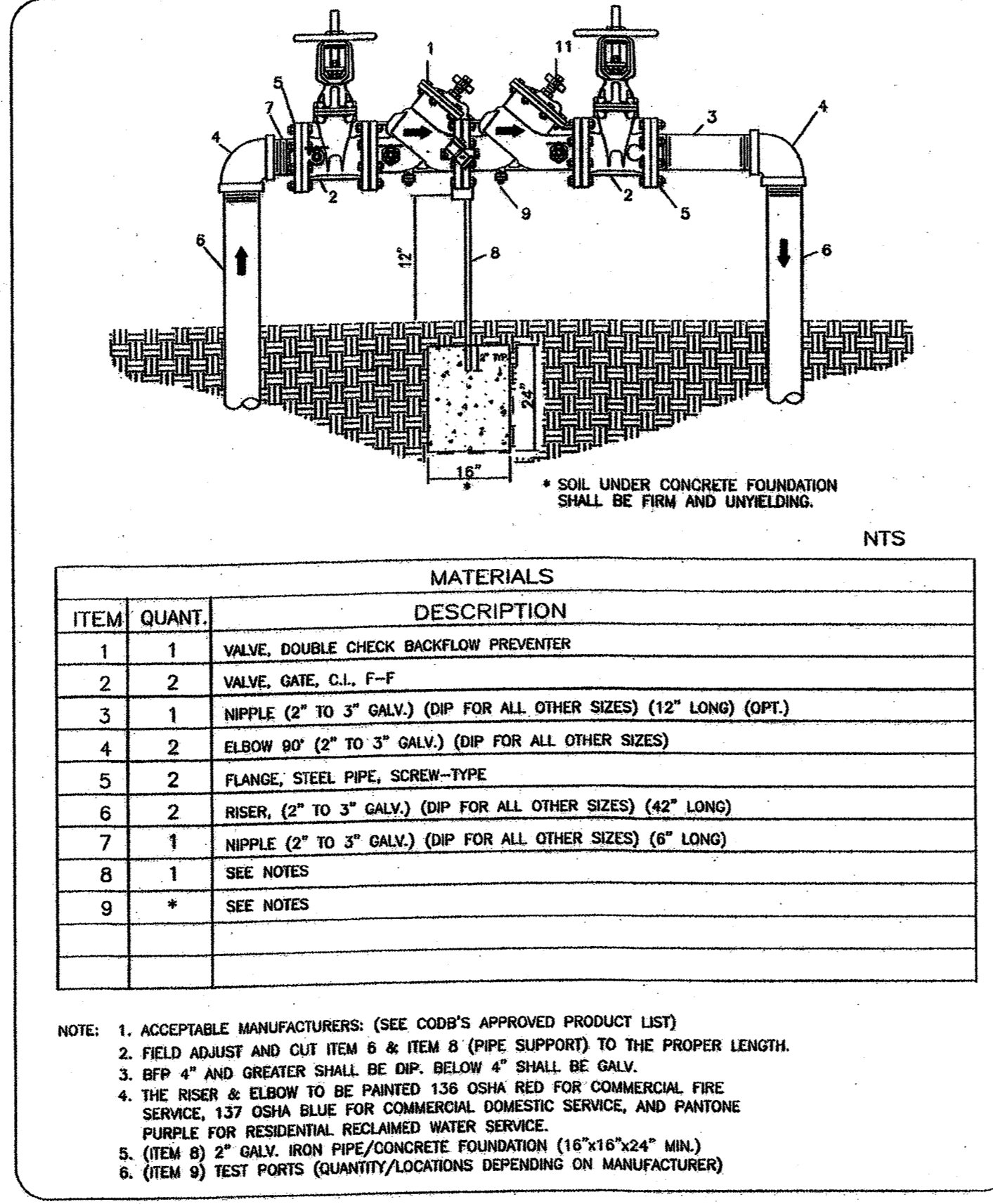


THE CITY OF DAYTONA BEACH UTILITIES DEPARTMENT

FIRE/DOMESTIC/IRRIGATION CONNECTION DETAIL

W-7

12/09/10
Drawing Date: 01/08
Drawn By: MIA
Checked By: JAP
Scale: NTS
Revision Date:
File Name: W-7

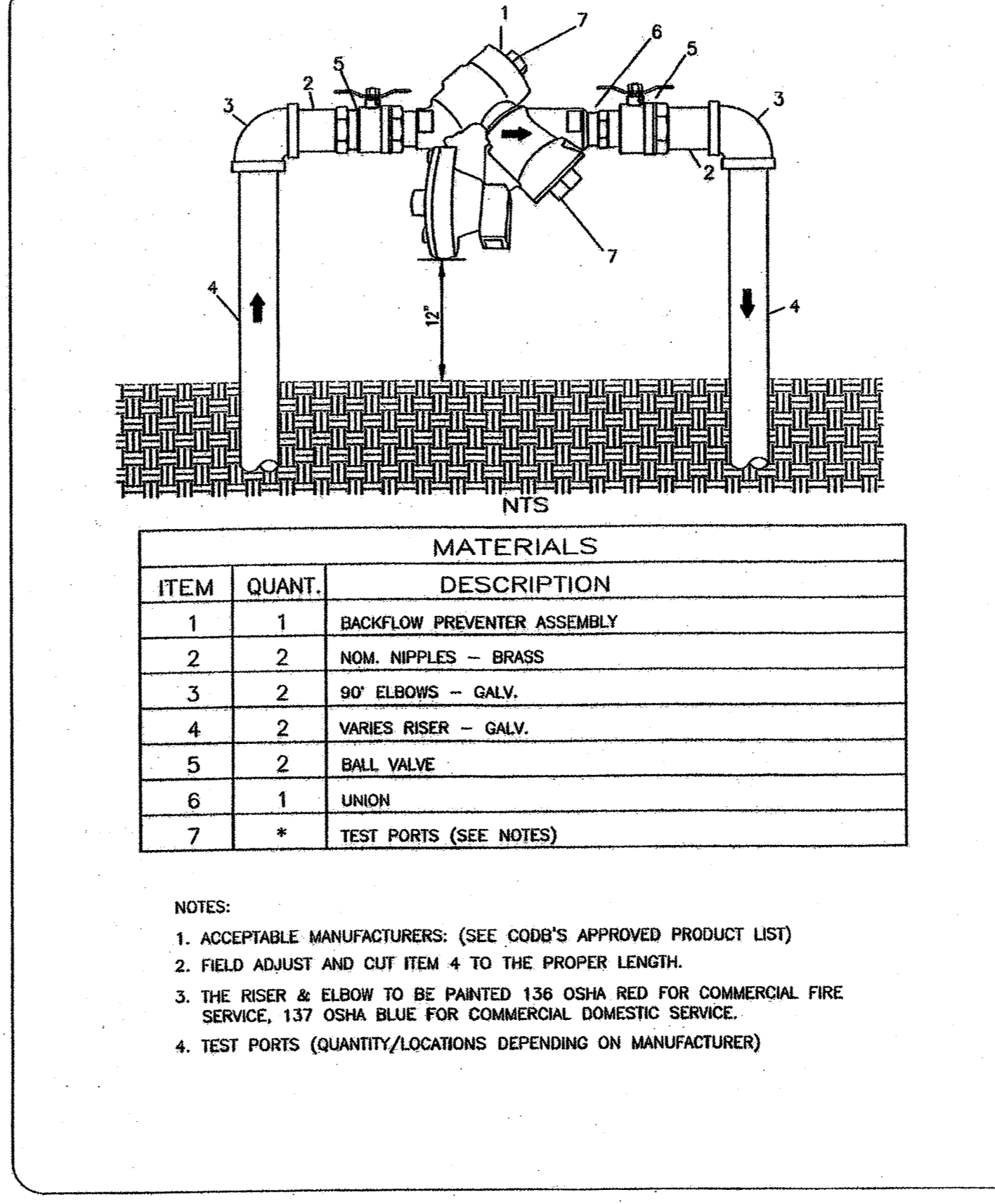


THE CITY OF DAYTONA BEACH UTILITIES DEPARTMENT

DOUBLE CHECK VALVE ASSEMBLY BACKFLOW PREVENTER LINE

W-16

12/09/10
Drawing Date: 01/08
Drawn By: MIA
Checked By: JAP
Scale: NTS
Revision Date:
File Name: W-16



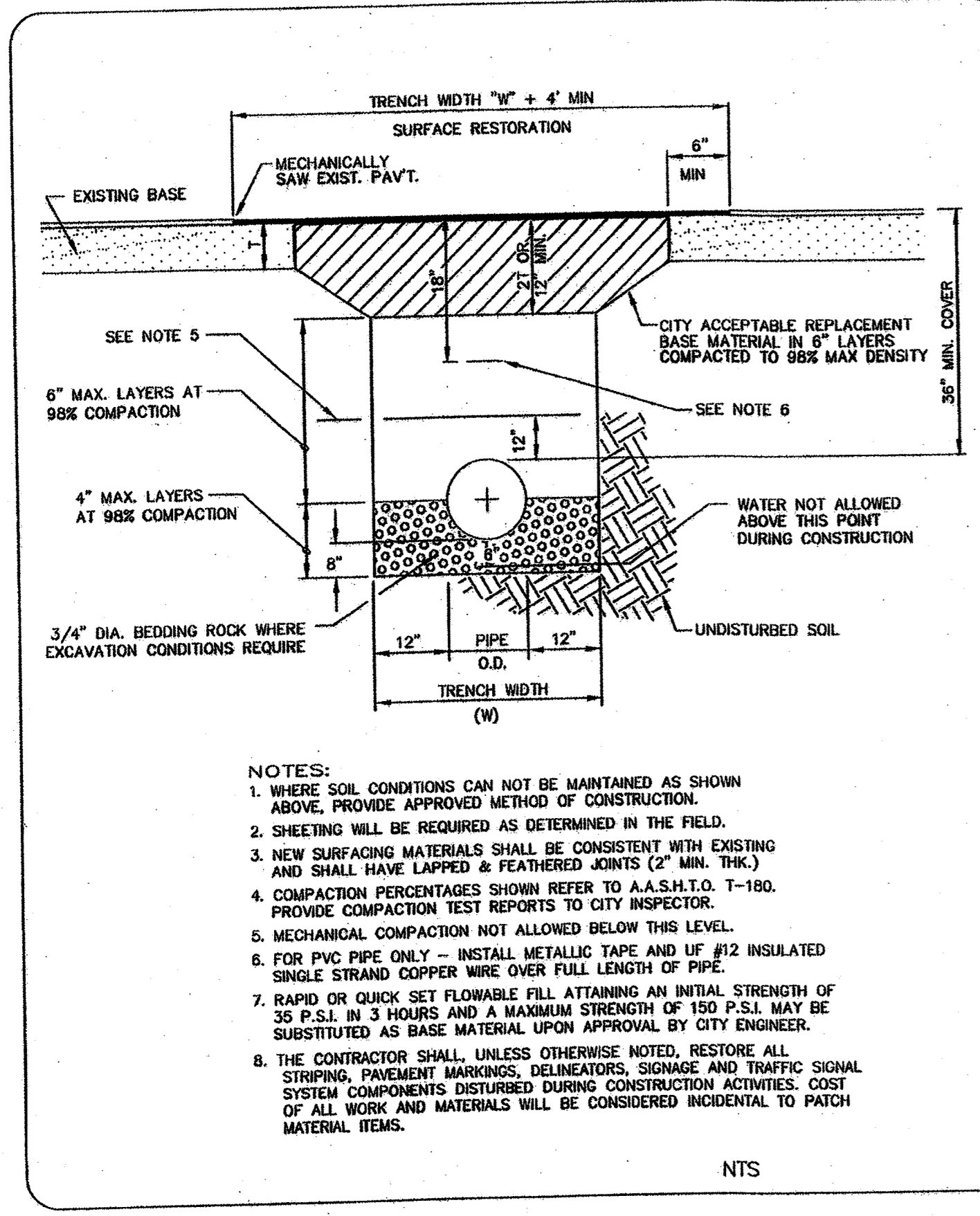
THE CITY OF DAYTONA BEACH UTILITIES DEPARTMENT

REDUCED PRESSURE ZONE BACKFLOW PREVENTER, SINGLE SERVICE

3/4", 1", 1-1/2" or 2"

W-17

12/09/10
Drawing Date: 01/08
Drawn By: MIA
Checked By: JAP
Scale: NTS
Revision Date:
File Name: W-17



THE CITY OF DAYTONA BEACH UTILITIES DEPARTMENT

PAVEMENT CUT AND PATCH DETAIL

W-21

12/09/10
Drawing Date: 01/08
Drawn By: MIA
Checked By: JAP
Scale: NTS
Revision Date:
File Name: W-21

SCHEDULE OF LENGTHS OF RESTRAINED DIP (FT.)

FITTING	90° BEND	45° BEND	22.5° BEND	11.25° BEND	TEE OR DEAD END
4"	21 (26)	18 (18)	18 (18)	18 (18)	37 (55)
6"	30 (36)	18 (18)	18 (18)	18 (18)	52 (78)
8"	38 (45)	18 (18)	18 (18)	18 (18)	67 (100)
10"	45 (54)	18 (22)	18 (18)	18 (18)	81 (122)
12"	52 (63)	22 (26)	18 (18)	18 (18)	94 (141)
14"	60 (72)	25 (30)	18 (18)	18 (18)	107 (160)
16"	66 (80)	27 (33)	18 (18)	18 (18)	120 (180)
18"	74 (87)	31 (36)	18 (18)	18 (18)	132 (198)
20"	80 (94)	33 (39)	18 (18)	18 (18)	144 (216)
24"	92 (108)	38 (45)	18 (22)	18 (18)	167 (250)
30"	106 (128)	44 (53)	21 (25)	18 (18)	199 (298)
36"	69 (82)	28 (34)	18 (18)	18 (18)	170 (204)
42"	76 (92)	31 (37)	18 (18)	18 (18)	191 (229)
48"	90 (106)	40 (46)	18 (18)	18 (18)	212 (254)

LENGTHS BETWEEN HEAVY LINES INDICATE ONE FULL LENGTH (18' MIN.) OF PIPE TO BE RESTRAINED.

TABLE SHOWS MINIMUM LENGTH OF PIPE EACH WAY FROM FITTING FOR WHICH RESTRAINT IS REQUIRED.

TABLE APPLIES TO DUCTILE IRON PIPE FOR THE FOLLOWING CONDITIONS:
TEST PRESSURE: 150 PSIG
SOIL TYPE: SP
COVER DEPTH: 3 FEET (MIN.)
SAFETY FACTOR: 1.5
TRENCH TYPE: 2

VALUES IN PARENTHESIS (X) ARE FOR PIPE ENCASED IN POLYETHYLENE.

* VALUES APPLY TO DUCTILE IRON PIPE AT 50 PSI TEST PRESSURE.

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DIP RESTRAINED JOINT TABLE

W-22

12/09/10
Drawing Date: 01/08
Drawn By: MIA
Checked By: JAP
Scale: NTS
Revision Date:
File Name: W-22

12/22/11
10/04/11
Revised

CITY STAFF COMMENTS
CITY STAFF COMMENTS
Description of Revision

By: NM/DJ
By: NM/DJ

Daniel Johns, P.E.
Professional Engineer
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POTABLE WATER DETAILS

FRATERNAL ORDER OF EAGLES #4481

324 Beville Road
Daytona Beach, Volusia County, Florida 32114

file: * date: 06-15-11 scale: SHOWN sheet: 9 of 19