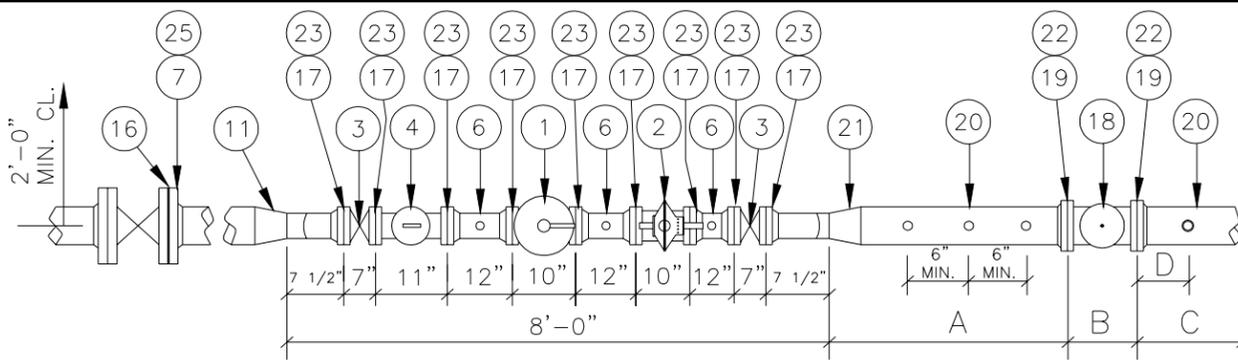


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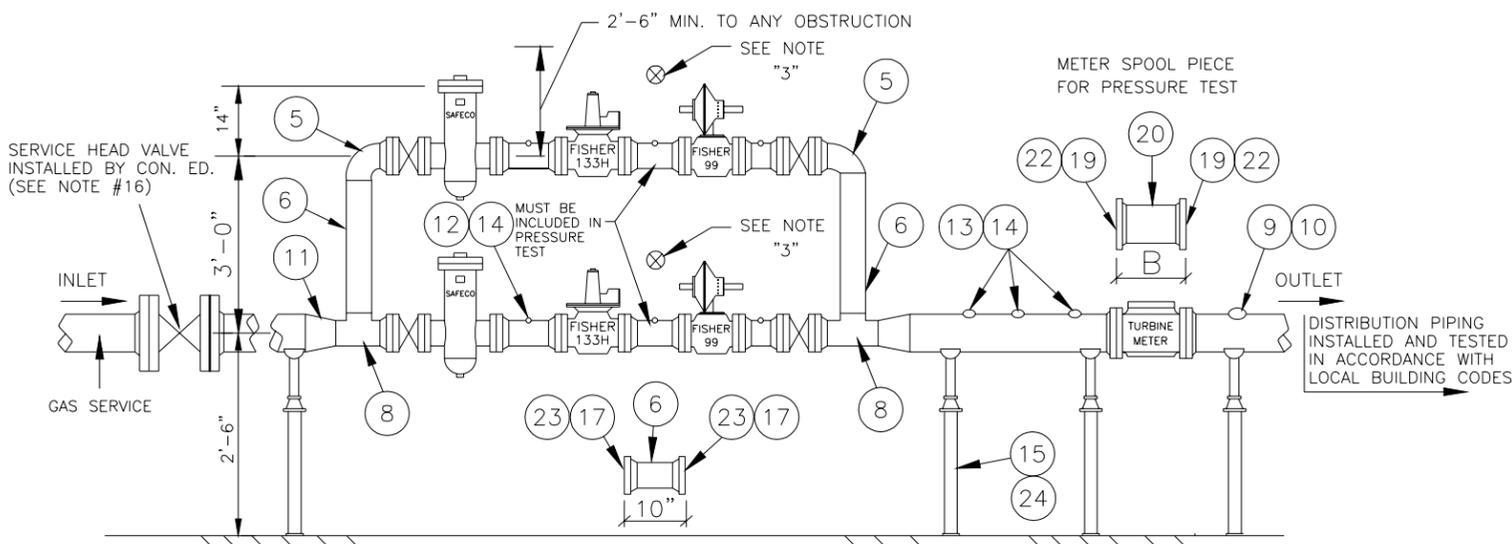
REVISIONS

R.LUCAS	3/10/97	03
REVISED ITEMS #1 & #2 DESCRIPTIONS		
A.F.	3/10/97	



PLAN VIEW

SEE TABLE "1"



REGULATOR SPOOL PIECE FOR PRESSURE TEST (4 REQUIRED)

ELEVATION VIEW

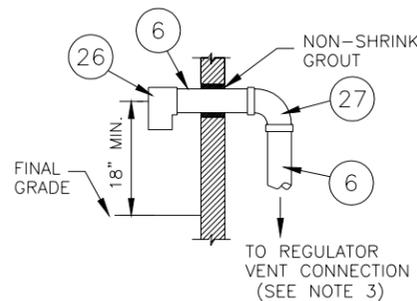
BILL OF MATERIAL			
ITEM	DESCRIPTION	SPEC. OR STD.	QUANTITY
1.	2" FISHER 133H REGULATOR, 150LB. SUPPLIED BY CON. ED.		2
2.	2" FISHER 99 REGULATOR, 150 LB. SUPPLIED BY CON. ED.		2
3.	2" 150 LB. BALL VALVE, SUPPLIED BY CON. ED.		4
4.	2" GFT - JR. SAFECO GAS FILTER, SUPPLIED BY CON. ED.		2
5.	2" SHORT RADIUS 90° ELBOW, SCH. 40	ANSI B16.28	2
6.	2" STEEL PIPE, SCH. 40	ASTM -A106 GRADE "B"	AS REQ'D.
7.	V" STEEL FLANGE, FLAT FACE, 150 LB. (SEE NOTE 7)	ANSI B16.5	1
8.	2" X 2" X 2" STEEL TEE, SCH. 40	ANSI B16.9	2
9.	M" X 1" THREADOLET (SEE NOTES 6 & 8)	ANSI B16.9	1
10.	1" STEEL SQUARE HEAD PLUG	ANSI B16.14	1
11.	V" X 2" CONCENTRIC STD. STEEL REDUCER, IF REQUIRED	ANSI B16.9	1
12.	2" X 1/2" THREADOLET		6
13.	M" X 1/2" THREADOLET (SEE NOTE 8)		3
14.	1/2" STEEL SQUARE HEAD PLUG	ANSI B16.14	9
15.	PIPE SUPPORT	G-639	AS REQ'D.
16.	FLANGE INSULATING KIT		1
17.	2" STEEL FLANGE, RAISED FACE, 150 LB.		24
18.	M" TURBINE METER (SEE NOTE 8) SUPPLIED BY CON. ED.		1
19.	M" STEEL FLANGE, FLAT FACE, 150 LB. (SEE NOTE 8)	ANSI B16.5	4
20.	M" STEEL PIPE, SCH. 40 (SEE NOTE 8)	ASTM -A106 GRADE "B"	AS REQ'D.
21.	M" X 2" STEEL REDUCER (SEE NOTE 8)	ANSI B16.9	1
22.	M" X 1/16" 150 LB. FULL FACE GASKET (SEE NOTE 5)		2
23.	2" X 1/16" 150 LB. RING GASKET (SEE NOTE 5)		26
24.	BAKELITE, NEOPRENE, OR EQUIV. INSULATING MAT'L. (SEE NOTE 10)		AS REQ'D.
25.	V" X 1/16" 150 LB. FULL FACE GASKET (SEE NOTE 5)		2
26.	2" VENT CAP 90° ELBOW WITH SCREEN - UPSCO		2
27.	1/2" ELBOW 90° BLACK MALLEABLE, THREADED, 150 LB.	ANSI B16.3	2

NOTES:

- ALL MATERIAL SHALL BE FURNISHED AND INSTALLED BY THE CUSTOMER EXCEPT FOR THE FILTERS, VALVES, AND REGULATORS WHICH ARE FURNISHED BY THE COMPANY, AND THE METER WHICH IS FURNISHED AND INSTALLED BY THE COMPANY.
- DO NOT INCLUDE REGULATORS OR METER IN PRESSURE TEST, USE SPOOL PIECES SHOWN ON DRAWING.
- FOR INDOOR INSTALLATIONS, INSTALL TWO SEPARATE 2" VENT LINES TERMINATING 2 FEET FROM EACH REGULATOR RUN AT THE POINT SHOWN ON THE DRAWING. SEE DETAIL "A" FOR REGULATOR VENT PIPING REQUIREMENTS. CONTACT GAS MEASUREMENT PRIOR TO VENT PIPING INSTALLATION TO DETERMINE VENT MANIFOLD LOCATION.
- FOR INSTALLATIONS WHERE MINIMUM DISTANCES CANNOT BE MET, CONSIDER THE USE OF BLEED RINGS OR PIPING OFFSETS OR CONTACT GAS MEASUREMENT.
- FOR ALL GASKET MATERIAL, USE GARLOCK 3000 ONLY (1/16" THICK).
- ALL THREADOLETS MUST BE FULL BORE, FILLET WELDED AND PLUGGED. DO NOT WELD WITH METER INSTALLED.
- THE LETTER V REPRESENTS THE SIZE OF THE SERVICE HEAD VALVE. SEE TABLE 2 FOR EXACT SIZE. IF TABLE 2 IS NOT COMPLETELY FILLED OUT, CONTACT CENTRAL GAS MEASUREMENT.
- THE LETTER M REPRESENTS THE SIZE OF THE TURBINE METER. SEE TABLE 2 FOR EXACT SIZE. IF TABLE 2 IS NOT COMPLETELY FILLED OUT, CONTACT CENTRAL GAS MEASUREMENT.
- TABLE 2 MUST BE COMPLETED BEFORE PROVIDING TO CONTRACTOR.
- INSULATING MATERIAL MUST BE INSTALLED BETWEEN THE PIPE SUPPORTS AND THE PIPE, SO THAT THE PIPE NEVER MAKES CONTACT WITH THE PIPE SUPPORT.
- FOR INSIDE INSTALLATIONS, A PRESSURE TEST MUST BE CONDUCTED AT 200 PSIG. AND FOR OUTSIDE INSTALLATIONS, A PRESURE TEST MUST BE CONDUCTED AT 150 PSIG.; EXCEPT IN WESTCHESTER COUNTY WHERE INSIDE AND OUTSIDE INSTALLATIONS MUST BE PRESSURE TESTED AT 150 PSIG.
- ALL WELDED PIPING MUST BE BUTT WELDED. ALL BUTT WELDS SHALL BE RADIOGRAPHED.
- FOR LOCATIONS REQUIRING A DOMESTIC REGULATOR METER SET, IT SHALL BE INSTALLED IMMEDIATELY AFTER SERVICE HEAD VALVE WITH AN ISOLATION VALVE.
- PIPE SUPPORTS OR ANY BRACING SHALL NOT BE WELDED TO METER/DISTRIBUTION PIPING.
- REFER TO "REQUIREMENTS FOR GAS SERVICE INSTALLATION" BOOK FOR FURTHUR INFORMATION.
- FOR WESTCHESTER, CUSTOMERS CONTRACTOR SHALL INSTALL SERVICE HEAD VALVE WHERE APPLICABLE.
- FOR ANY QUESTIONS, CONTACT CENTRAL GAS MEASUREMENT.

	SIZE OF TURBINE METER, M		
	4"	6"	8"
A	40"	60"	80"
B	14"	16"	21"
C	20"	30"	40"
D	6"	12"	18"

SIZE OF TURBINE METER	M	"
SIZE OF SERVICE HEAD VALVE	V	"



DETAIL "A"

VENT REQUIREMENTS:

- VENT PIPE MUST:
 - BE PROPERLY SUPPORTED
 - TERMINATE OUTDOORS WITH A VENT CAP
- VENT CAP WILL:
 - NOT BE LOCATED UNDER A WINDOW, OVERHANG OR PROJECTION
 - BE A MINIMUM OF 18" FROM ANY OPENING WHICH COULD ALLOW VENTED GAS TO ENTER THE BUILDING
 - BE A WEATHER AND INSECT RESISTANT FITTING
 - NOT BE COVERED IN ANY WAY THAT WOULD PREVENT FREE FLOW TO OUTSIDE AIR
 - BE A MINIMUM OF 18" ABOVE FINAL GRADE
- EACH REGULATOR RUN WILL BE VENTED SEPARATELY.
- CUSTOMER TO INSTALL 2" VENT PIPING FROM OUTDOOR VENT CAP ALONG INSIDE WALL TO A POINT WITHIN 2' OF EACH REGULATOR RUN. COMPANY TO MAKE FINAL CONNECTION TO VENT LINE.

INSTALLATION OF PARALLEL FISHER 2"- 99 AND 2"- 133H REGULATORS WITH TURBINE METER INDOORS AND OUTDOORS 25,000 CFH TO 60,000 CFH

CONSOLIDATED EDISON COMPANY OF N.Y., INC. CENTRAL GAS OPERATIONS - GAS MEASUREMENT

DATE 11/15/96 DWG. 308658 REV.03
LAST REV.3/10/97 NO.

DRAWN BY AL FORTE	DATE 11/15/96	CHECKED BY R. LUCAS	DATE 11/15/96
DISCIPLINE CODE TG		SCALE NONE	
APPROVED MGR. RICHARD DI LORETO		DATE 2/20/97	
GENERAL MGR. DAVID DAVIDOWITZ		DATE 2/20/97	