

V-62991-03

REVISIONS

M. BALDOVIN
4/20/06

2

REDRAWN TO AUTOCAD.
ADDED REQUIREMENT
OF SLEEVE AND
LINK SEALS.
REVISED NOTES
D, I & S
ADDED NOTE Q & T

RAJ 4/20/06

3

UPDATED DRAWING
NOTES, AND BILL
OF MATERIALS.

DJ 6/22/11

4

UPDATED DRAWING
NOTES, AND BILL
OF MATERIALS.

S.E. 9/26/16
M. BALDOVIN
06/19/18

5

CHANGE ITEM
22 TO 21/28
UPDATED DRAWING
NOTES, AND BILL
OF MATERIALS.

R.R. 06/19/18

TYPICAL INSTALLATION

UNSTABLE SOIL CONSTRUCTION (PLAN VIEW) (SEE NOTE "R")

**13 STEEL BRACE
DETAIL "B"**

**INSTALLATION WHERE SERVICE
ENTERS FROM BENEATH BUILDING**
(COLD ROLLED BEND)

**OUTDOOR SERVICE HEAD VALVE
(METALLIC SWEEP)**

NOTES:

A.REFER TO G-8100 FOR DETAILED CONSTRUCTION REQUIREMENTS FOR THE INSTALLATION OF NEW AND REPLACEMENT GAS SERVICES.

B.ALL CUSTOMER'S WORK SHALL CONFORM TO COMPANY SPECIFICATIONS, "A CUSTOMER GUIDE TO NATURAL GAS SERVICE INSTALLATION," (YELLOW BOOK) AND ALL LOCAL CODE REQUIREMENTS.

C.REFER TO G-8100 AND EO-16645-A FOR APPROVED SERVICE CONNECTIONS TO STEEL AND CAST IRON MAINS, INCLUDING REQUIREMENT FOR STRAP SADDLE CONNECTION.

D.REFER TO G-8205 AND G-11830 FOR MAGNESIUM ANODE INSTALLATION REQUIREMENTS AND TESTING REQUIREMENTS ON STEEL SERVICE PIPE, VENT PIPING, METALLIC FITTINGS, AND UNPROTECTED STEEL GAS MAIN. REFER TO G-8209 FOR FIELD COATING REQUIREMENTS ON DIRECT BURIED OR SLEEVED STEEL PIPE, FITTINGS, AND UNDERGROUND VENT PIPING. REFER TO G-8205 FOR REQUIREMENTS TO INSTALL INSULATING JOINTS.

E.REFER TO G-8153 FOR REINFORCEMENT REQUIREMENTS OF NEW, REPLACED, OR EXISTING BURIED, NON-RESTRAINING COUPLINGS.

F.REFER TO G-8100 FOR EXCESS FLOW VALVE (EFV) INSTALLATION REQUIREMENTS ON HIGH PRESSURE SERVICES.

G.REFER TO G-8100 FOR TRACER WIRE INSTALLATION REQUIREMENTS ON DIRECT BURIED, TRENCHLESS TECHNOLOGY, AND INSERTED SERVICES.

H.REFER TO 502664 FOR INSTALLATION REQUIREMENTS OF ELECTRONIC MARKERS (ITEM 27) ON DIRECT BURIED, TRENCHLESS TECHNOLOGY, AND INSERTED SERVICES. AT A MINIMUM, ELECTRONIC MARKERS ARE TO BE INSTALLED AT MAIN-TO-SERVICE CONNECTION AND CURB VALVE.

I.REFER TO G-8100 AND 309495 FOR INSTALLATION REQUIREMENTS OF "WARNING BURIED GAS LINES BELOW" TAPE (ITEM 26).

J.REFER TO G-8100 FOR SERVICE HEAD VALVE (S/H/V) INSTALLATION REQUIREMENTS.

K.REFER TO G-8100 FOR INSTALLATION REQUIREMENTS OF GAS SERVICES THAT ENTER A BUILDING THROUGH THE FLOOR; GAS SERVICES INSERTED/INSTALLED UNDER AN ENCLOSED LIVING SPACE; GAS SERVICES INSTALLED THROUGH A SUBSURFACE VAULT OR OPEN AREAWAY; GAS SERVICES INSTALLED IN AN OPEN AREA UNDERNEATH AN OUTSIDE STAIRCASE. SEE EO-16546-B, EO-4890-B, G-8096.

L.NEW AND REPLACEMENT SERVICES THAT ENTER A BUILDING (EITHER ABOVE GROUND OR UNDERGROUND) THROUGH THE BUILDING'S CONCRETE/MASONRY FOUNDATION/VAULTED WALL, SHALL ENTER VIA THE OLD SERVICE PIPE FOR AN INSERTION OR CONTINUOUS STEEL OR PVC SLEEVE FOR A NEW/REPLACEMENT SERVICE.

M.REFER TO G-8100 AND G-8096 FOR SLEEVE SIZE AND ANNULAR SPACE SEALING REQUIREMENTS.

N.IF A THREADED NIPPLE IS WELDED TO THE END OF THE SERVICE, THE WELD MUST BE EXPOSED AND CANNOT BE LEFT IN THE SLEEVE.

O.GAS VENT, SLEEVE PIPING, OR STEEL BRACE SHALL NOT BE IN DIRECT CONTACT TO THE BUILDING STEEL.

P.RISER SUPPORT TO BE INSULATED FROM PIPE WITH NEOPRENE (ITEM 28), OR EQUIVALENT, WRAPPED AROUND PIPE.

Q.REFER TO EO-13911-A FOR 4" AND UP WELDED END BALL VALVE AND VALVE BOX INSTALLATION REQUIREMENTS.

R.REFER TO G-8100 AND G-11831 FOR SERVICE INSTALLATIONS IN UNSTABLE SOIL AND INSPECTION REQUIREMENTS. OFFSETS USING COMPRESSION END ELBOWS SHALL BE INSTALLED TO PROVIDE FLEXIBILITY AND A BRACE SHALL BE INSTALLED INSIDE THE BUILDING WALL TO PREVENT PULL-OUT. FOR OUTSIDE METER/REGULATOR SETS, INSTALL A FLEXIBLE STAINLESS STEEL HOSE BETWEEN THE HEAD OF SERVICE VALVE AND METER BAR. WHEN CONNECTING TO A CAST IRON MAIN IN UNSTABLE SOIL, POSITION THE SERVICE TEE OUTLET PARALLEL TO THE MAIN.

S.PLASTIC CURB VALVE BOX (ITEM 28) SHALL BE USED IN SIDEWALK AND NON-PAVED AREAS; CAST IRON CURB VALVE BOX (ITEM 21) SHALL BE USED IN THE STREET.

T.SUPPORT THE CURB VALVE BOX (ITEM 21, OR 28) WITH PRE-CAST BASE (ITEM 11) OR BRICKS (ITEM 6) ENTIRE ASSEMBLY SHOULD BE ON WELL COMPACTED SOIL.

U.REFER TO G-8204 FOR PRESSURE TESTING REQUIREMENTS FOR NEW, REPLACED, AND RECONNECTED SERVICES.

CONST. STDS
VOLUME 2

FOR BILL OF MATERIAL SEE EO-16629-B SHEET 2 OF 2.

INSTALLATION OF STEEL
GAS SERVICE PIPING

CONSOLIDATED EDISON COMPANY OF N. Y. INC.
GAS OPERATIONS DEPT.

DATE 3/21/84
LAST REV. 06/19/18

DWG.
NO

EO-16629-A
SHEET 1 OF 2

REV. 5

EO-16629-B

REVISIONS

M. BALDOVIN B. DAS R. GROGAN	2
REVISED BILL OF MATERIAL RAJ. 4/20/06	
M. BALDOVIN 6/22/11	3
UPDATED DRAWING, NOTES, AND BILL OF MATERIALS. D.J. 6/22/11	
M. BALDOVIN 9/26/16	4
UPDATED DRAWING, NOTES, AND BILL OF MATERIALS. S.E. 9/26/16	
M. BALDOVIN 06/19/18	5
UPDATED DRAWING, NOTES, AND BILL OF MATERIALS. R.R. 06/19/18	

15		ELBOW, SLEEVE, STEEL	EO-12790-B
	338-6653	6" (FLANGED END)	
	338-6646	4" (THREADED END)	
	338-6638	3" (THREADED END)	
	338-6620	2" (THREADED END)	
14	338-6612	1 1/2" (THREADED END)	ANSI B 16.3
	338-6604	1" (THREADED END)	
		ELBOW, 90° MALLEABLE IRON, SCREWED ENDS	
	332-1106	4"	
	332-1080	3"	
13	332-1049	2"	SEE DETAIL "B"
	332-1023	1 1/2"	
	332-1007	1 1/4"	
	332-0983	1"	
		BRACE, STEEL, 2 REQ'D	
12		ANODE, MAGNESIUM	G-8102
	079-0048	32 POUND	
	079-0030	17 POUND	
	079-0014	3 POUND	
		BASE / CRADLE, CURB VALVE	
11	002-2863	2" VALVE SIZE	EO-9241-D
	002-2848	1 1/4" & 1 1/2" VALVE SIZE	
	002-4646	1" VALVE SIZE	
		CLAMP, SLEEVE	
	003-4215	COVER, PLASTIC PLATE	
10		COVER, VALVE BOX	EO-4070-C
	003-3415	CAST IRON 4 5/8"x 4 5/8"	
	002-2673	CONCRETE 4 5/8"x 4 5/8"	
	003-3407	CAST IRON VALVE BOX COVER	
		VALVE, PLUG, SERVICE HEAD	
9		** FOR OPERATING PRESSURE OF 1 PSI OR MORE	G-100,298
		* FOR OPERATING PRESSURE OF LESS THAN 1 PSI	
	374-2319	12" (FLANGED END) REGULAR PATTERN	
	374-2301	12" (FLANGED END) SHORT PATTERN	
	374-2293	8" (FLANGED END) REGULAR PATTERN	
8	274-2285	8" (FLANGED END) SHORT PATTERN	EO-4789-D
	374-2277	6" (FLANGED END) REGULAR PATTERN	
	474-2269	6" (FLANGED END) SHORT PATTERN	
	374-2335	4" (FLANGED END)**	
	374-2103	4" (SCREWED END)*	
7	374-1345	3" (FLANGED END)**	EO-9241-D
	374-0354	3" (SCREWED END)*	
	374-0321	2" (SCREWED END)	
	374-2095	1 1/2" (SCREWED END)	
	374-2434	1 1/4" (SCREWED END)	
6	374-0248	1" (SCREWED END)	EO-4789-D
	000-0372	BRICK ,NO. 1 COMMON. RED	
	020-1145	LOCK, CURB VALVE BOX	
		VALVE, PLUG, CURB	
	374-2251	12" (WELD END)	
5	374-2244	10" (WELD END)	G-100,298
	374-2236	8" (COMP. END)	
	374-2210	6" (COMP. END)	
	374-2202	4" (COMP. END)	
	374-2194	3" (COMP. END)	
4	374-2178	2" (COMP. END)	G-100,298
	374-2160	1 1/2" (COMP. END)	
	374-2152	1 1/4" (COMP. END)	
	374-2145	1" (COMP. END)	
		COUPLING, COMPRESSION, RESTRAINING, CONDUCTIV	
3	337-9534	12"	G-100,285
	337-9559	10"	
	337-8007	8"	
	337-7868	6"	
	337-7876	4"	
2	337-8700	3"	G-8096
	337-1226	2" x 12"	
	337-8106	2" x 6"	
	337-8858	1 1/2"	
	337-8098	1 1/4"	
1	337-8841	1"	G-8107
		SEAL, LINK (PIPE SLEEVE SIZE)	
	341-0776	12" x 16" (12 LINKS)	
	341-1030	10" x 16" (10 LINKS)	
	341-1006	8" x 12" (12 LINKS)	
1	341-1006	6" x 10" (10 LINKS)	G-8096
	341-0750	4" x 8" (10 LINKS)	
	341-0750	3" x 6" (8 LINKS)	
	341-0750	2" x 4" (6 LINKS)	
	341-1048	1 1/2" x 3" (7 LINKS)	
1	NON-STOCK	1 1/4" x 3" (8 LINKS)	G-8096
	341-0750	1" x 3" (4 LINKS)	
		PIPE, STEEL, SCH. 40 COATED	
	323-0646	12"	
	323-0638	10"	
1	323-0620	8"	G-8107
	323-0612	6"	
	323-0596	4"	
	323-0299	3"	
	323-0695	2"	
1	323-0349	1 1/2"	G-8107
	323-0729	1 1/4"	
	323-0372	1"	
ITEM NO.	CLASS & STOCK NO.	DESCRIPTION	DWG. OR SPEC. NO.

BILL OF MATERIAL

28		VALVE BOX PLASTIC	
	003-9172	BOX, CURB VALVE PLASTIC (COMPLETE W/COVER)	
27		ELECTRONIC MARKER (EM)	502664
	456-0481	GAS MARKER BALL FOR < 5' DEEP	
	456-0482	GAS FULL-RANGE MARKER FOR ≥ 5' AND < 8' DEEP	
	007-6273	30" CABLE TIES	
	024-6660	TAPE, "WARNING GAS LINE BELOW"	
26			G-8100
25	563-1395	WIRE, WHITE #10 (TEST LEAD WIRE)	G-8205
24		ELBOW, 90° COMPRESSION RESTRAINING	G-100,285
	337-3603	6" (WELD END)	
	337-2662	4" (WELD END)	
	337-8999	3"	
	337-9054	2"	
23	337-9062	1 1/2"	ASTM A53 GR.B
	337-9070	1 1/4"	
	337-9088	1"	
		NIPPLE, STEEL, SHOULDER, SCH. 80	
	330-1702	4" x 4 1/2"	
22	330-1611	3" x 3 1/2"	G-8096
	330-1322	2" x 3 1/2"	
	330-3286	1 1/2" x 2 1/2"	
	330-2999	1 1/4" x 2"	
	330-0837	1" x 2 1/2"	
21		SLEEVE, WALL, SCH. 40 STEEL OR P.V.C. PIPE	EO-4045-C
		BOX CURB VALVE	
	003-3365	CAST IRON (CV 32-P COMPLETE)	
	003-3423	CAST IRON (CV-24-P COMPLETE)	
	003-9602	CAST IRON CURB VALVE BOX EXTENSION	
20	003-3381	CAST IRON CURB VALVE BOX	G-8107
19	686-0134	ROCKSHIELD, PLASTIC MESH	G-399
		BEND, PIPE, RISER	
	003-0700	2"	
	003-1047	3"	
	338-5622	CAP, VENT, 3/4"	
18	320-1654	PIPE, STEEL, 3/4", SCH. 40.	G-100,279
	058-3534	THERMIT WELD	
ITEM NO.	CLASS & STOCK NO.	DESCRIPTION	DWG. OR SPEC. NO.

BILL OF MATERIAL

THIS DRAWING IS REFERENCED IN SPECIFICATION G-8100
FOR NOTES SEE INSTALLATION DWG. EO-16629-A SHEET 1 OF 2

INSTALLATION OF STEEL
GAS SERVICE PIPING
BILL OF MATERIAL

CONSOLIDATED EDISON COMPANY OF N.Y., INC.
GAS OPERATIONS DEPT.

DATE	3/21/84	DWG. NO.	EO-16629-B	REV.	5
LAST REV.	06/19/18		SHEET 2 OF 2		