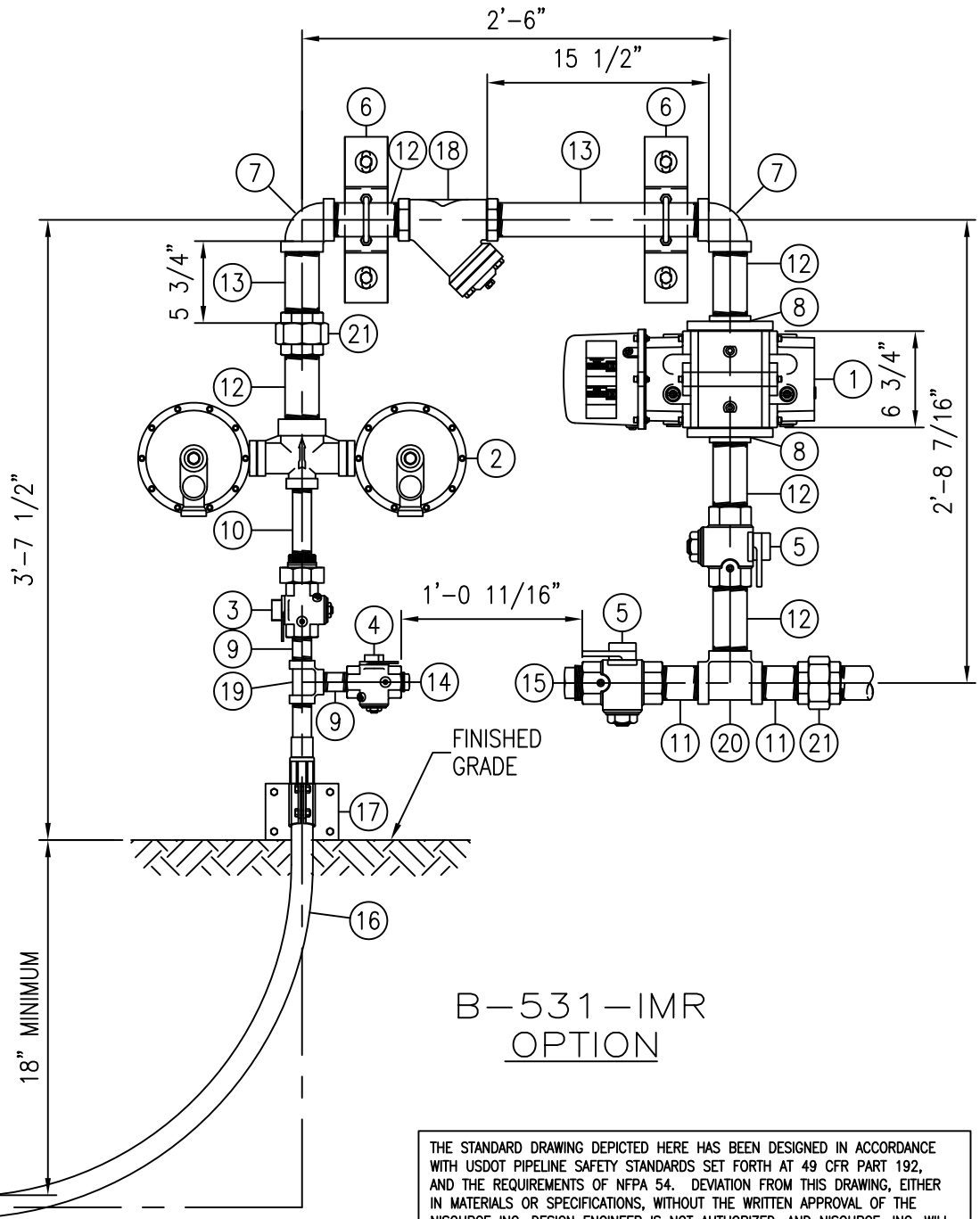


B-31-IMR  
OPTION



B-531-IMR  
OPTION

THE STANDARD DRAWING DEPICTED HERE HAS BEEN DESIGNED IN ACCORDANCE WITH USDOT PIPELINE SAFETY STANDARDS SET FORTH AT 49 CFR PART 192, AND THE REQUIREMENTS OF NFPA 54. DEVIATION FROM THIS DRAWING, EITHER IN MATERIALS OR SPECIFICATIONS, WITHOUT THE WRITTEN APPROVAL OF THE NISOURCE INC. DESIGN ENGINEER IS NOT AUTHORIZED, AND NISOURCE, INC. WILL NOT BE HELD ACCOUNTABLE FOR THE IMPROPER OPERATION OF THE FACILITY. A QUALIFIED PLUMBER, OTHER INSTALLER OR THE MANUFACTURER SHOULD BE CONSULTED FOR PROPER INSTALLATION AND/OR TESTING OF THIS FACILITY, AND NEITHER NISOURCE, INC. NOR ANY AFFILIATE OR SUBSIDIARY OF NISOURCE, INC. SHALL BE RESPONSIBLE FOR THE INSTALLATION AND/OR TESTING OF THE FACILITY.

Note:

IN KENTUCKY, THE COMPANY WILL INSTALL THE RISER

**NiSource™**

**NiSource Energy  
Distribution**

DRAWING TITLE			
1" X 2" SETTING WITH 1" X 2" REGULATOR AND 2" METER			
DRAWN	DATE	DRAWING NO.	ISSUE NO.
L.HARTLEY-CLARK	10-15-04	PLMB-0004	5
CHECKED	DATE	SHEET NO.	
		1 of 2	

ITEM	QTY.	SIZE	BILL OF MATERIAL
1	1	2"	METER, ROTARY, TO BE PROVIDED BY COLUMBIA GAS
2	1	1" OR 1" X 2"	REGULATOR, INTERNAL MONITOR, TO BE PROVIDED BY COLUMBIA GAS
3	1	1"	VALVE, METER STOP, INSULATED UNION, LOCKWING, USE ONLY APPROVED MANUFACTURERS
4	1	1"	VALVE, METER STOP, SCREWED BODY, LOCKWING, USE ONLY APPROVED MANUFACTURERS
5	2	2"	VALVE, METER STOP, SCREWED BODY, LOCKWING, USE ONLY APPROVED MANUFACTURERS
6	2	2"	BRACKET, SETTING SUPPORT, FABRICATED OR PURCHASED
7	2	2"	ELBOW, 90 DEG., THREADED, MALLEABLE IRON, STANDARD, CLASS 150
8	2	2"	FLANGE, THREADED, FLAT FACED, ANSI 150
--	8	5/8" X 2 3/4"	-- CAP SCREW, ASTM A-307, GRADE B, WITH HEAVY HEX. NUT (FOR METER)
--	2	2"	-- GASKET, FULL FACE, 1/16" THICK, I.D.=2 3/8" X O.D.=6", ANSI 150
9	2	1" X 3"	NIPPLE, PIPE, STEEL, GRADE B, EX. HEAVY, THREAD BOTH ENDS
10	1	1" X 6"	NIPPLE, PIPE, STEEL, GRADE B, EX. HEAVY, THREAD BOTH ENDS
11	2	2" X 4"	NIPPLE, PIPE, STEEL, GRADE B, THREAD BOTH ENDS
12	5	2" X 6"	NIPPLE, PIPE, STEEL, GRADE B, THREAD BOTH ENDS
13	2 FT.	2"	PIPE, P.E., STEEL, ERW, GRADE B, 0.154" WALL, CUT AND THREAD TO SUIT
14	1	1"	PLUG, SQUARE HEAD, MALLEABLE IRON, CLASS 150, DRILL FOR WIRE SEAL
15	1	2"	PLUG, SQUARE HEAD, MALLEABLE IRON, CLASS 150, DRILL FOR WIRE SEAL
16	1	SEE NOTE 8	RISER, APPROVED ANODELESS, STUB OR ENCASED OR FLEX CASING PRE-BENT STEEL
17	1	SEE NOTE 8	RISER BRACKET
18	1	2"	STRAINER, Y-TYPE, SCREWED BODY, MFG. MUELLER, TO BE PROVIDED BY COLUMBIA GAS
19	1	1"	TEE, THREADED, MALLEABLE IRON, CLASS 150
20	1	2"	TEE, THREADED, MALLEABLE IRON, CLASS 150
21	2	2"	UNION, FEMALE THREADED ENDS, INSULATED, MALLEABLE IRON, STANDARD, CLASS 150

WHEN SPECIFYING THE B-31-IMR SUBSITUTE (1) ITEM 10 & (1) ITEM 12 WITH THE FOLLOWING ITEMS

ITEM	QTY.	SIZE	B-31 OPTION - BILL OF MATERIAL
1B	1	1" X 1 1/2"	NIPPLE, PIPE, STEEL, GRADE B, EX. HEAVY, THREAD BOTH ENDS
2B	2	1 1/4" X 2 1/2"	NIPPLE, PIPE, STEEL, GRADE B, EX. HEAVY, THREAD BOTH ENDS
3B	1	2" X 4"	NIPPLE, PIPE, STEEL, GRADE B, THREAD BOTH ENDS
4B	1	1 1/4" X 1"	REDUCER, THREADED, MALLEABLE IRON, STANDARD, CLASS 150
5B	1	2" X 1 1/4"	REDUCER, THREADED, MALLEABLE IRON, STANDARD, CLASS 150

### NOTES

1. REFER TO COLUMBIA GAS STANDARDS FOR CUSTOMER SERVICE LINES, METERS, AND SERVICE REGULATORS (PLUMBER'S GUIDE) FOR PROPER METER SET INSTALLATION INSTRUCTIONS.
2. APPROVED METER SUPPORT MUST BE USED.
3. IF THE SERVICE LINE IS STEEL, CONTACT COLUMBIA GAS PERSONNEL FOR SPECIFIC INSTALLATION INSTRUCTIONS.
4. PREFABRICATED RISERS AND BRACKETS MUST BE INSTALLED AND SECURED ACCORDING TO THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.
5. THERE MUST BE A MINIMUM DISTANCE OF 12" BETWEEN THE SETTING AND BUILDING AND A MINIMUM OF 18" BETWEEN THE METER AND ANY OTHER OBSTRUCTIONS.
6. THE METER MUST BE INSTALLED IN A LEVEL POSITION.
7. NO SCREW FITTINGS ARE TO BE USED BELOW GROUND.
8. THESE ITEMS MUST BE APPROPRIATELY SIZED FOR THE SPECIFIC CONDITIONS.

DRAWN L.HARTLEY-CLARK	DATE 10-15-04	DRAWING NO. PLMB-0004	ISSUE NO.
CHECKED	DATE	SHEET NO. 2 OF 2	