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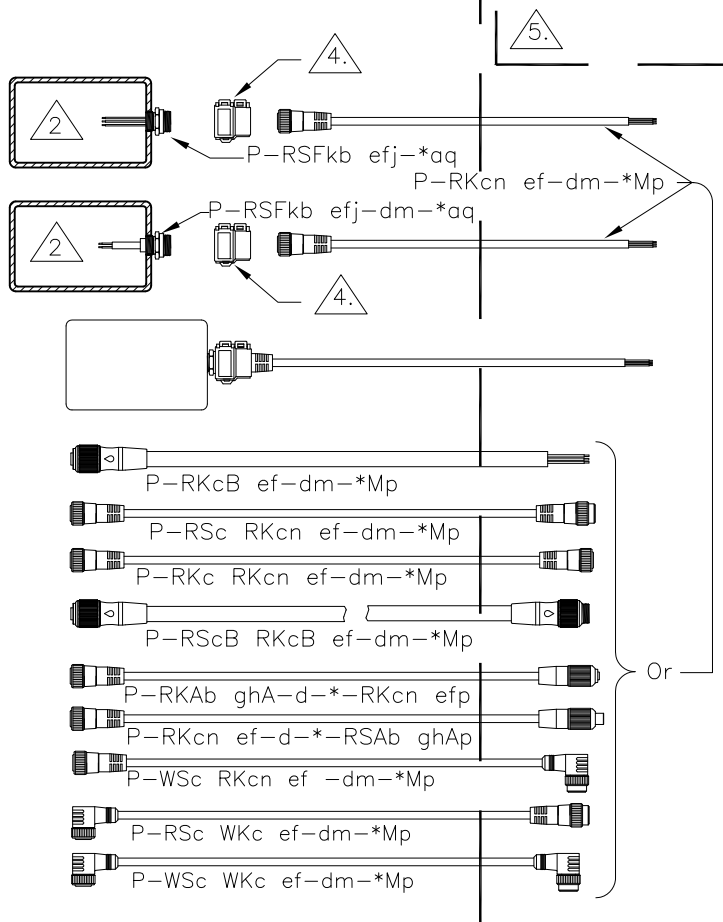
Secondary Conduit Seal Applications

<i>minifast</i> ® secondary conduit seal receptacles	23
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J	Add B- and C-size minifast, 10 conductor Ex	BVL		2/8/17	Drawing No.: NI-2.404	TURCK 3000 Campus Drive Plymouth, MN 55441 Phone: (763) 553-7300
H	Correct eurofast model numbers, sht 3 and 9, add XL option	BVL		9/6/16		
G	Add 8-conductor G-body eurofast cords and receptacles	BVL		9/4/14		
F	Add EXG extensions, right angle minifast, back panel receptacles	BVL		12/5/13		
E	Add RS.B/RK.B cords, del RSR/RKR cords and .MBM junctions	BVL		9/26/12	Title: Installation of CSA Certified Turck Process Wiring System	
D	Add ACIC Cable, 4-digit cable code	BVL		4/6/12		
Rev	Description	Drft	Chk	Date	Scale: NONE	Sheet 1 of 23

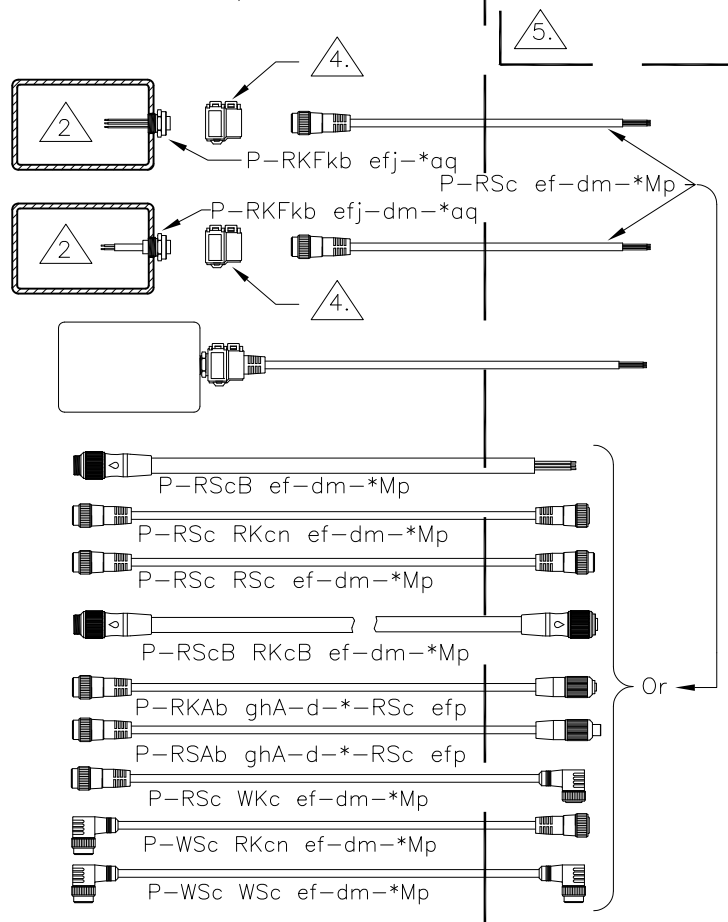
Hazardous Location
Class I, Division 2
Group A, B, C, or D

Nonhazardous
Location



Hazardous Location
Class I, Division 2
Group A, B, C, or D

Nonhazardous
Location



Notes:

1. The installation must be in accordance with the Canadian Electrical Code (CEC) and this control drawing.

2. Field device must be certified for installation in Class I, Division 2.

3. Model number key:

a = /14.5/NPT, /14.75/NPT, /M20, or blank

b = V or blank

c = M or V

d = cable type (3- or 4-digit number)

e = 2, 3, 4, 5, or 6

f = 0, 1, 2, 3, . . . , 99, followed by A or blank

g = 4 or 5

h = .1, .2, .3,99

j = D or blank

k = P or blank

m = XL or blank

n = S or blank

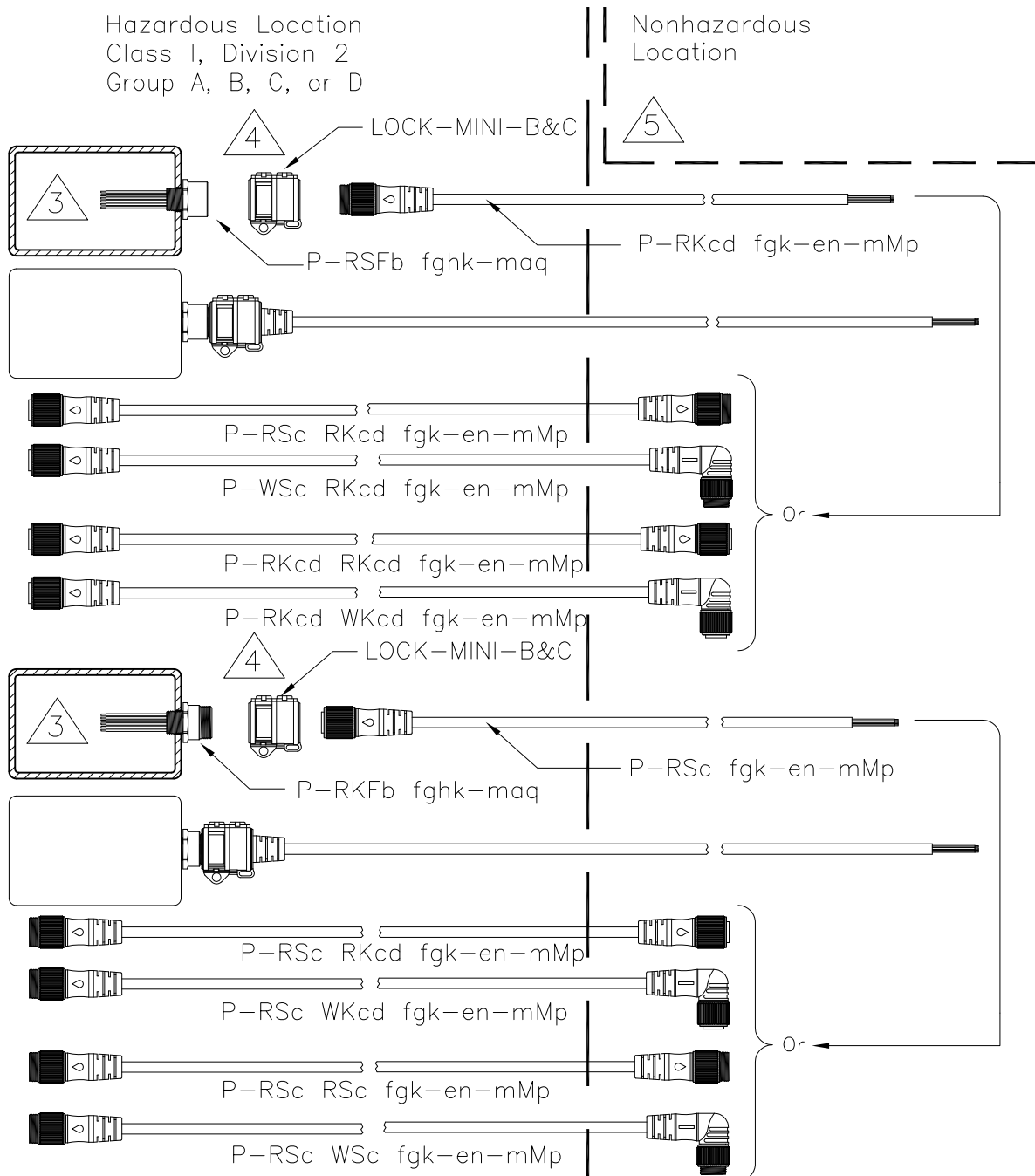
p = /S1331, /S1599, /S679, /S771, /S1055,
/S1057, /S1126, /S3001, /S3034, or blank

q = /S1331, /S1599, or blank

4. **lokfast**® guards on quick-disconnects require a tool to disconnect, rendering the connection not normally arcing. Use LOCK-MINI for RSM/RSV/RKM/RKV, LOCK-MINI-ANGLE for WSM/WSV/WKM/WKV, LOCK-MINI-B&C for RS.B/RK.B and LOCK-EURO-A for RSA/RKA.

5. The molded construction of the cordset and the gas/vaportight continuous sheath of the cable meet the requirements of the CEC for cable seals in Class I, Division 2. Thus, the cable may cross the boundary from Class I, Division 2 into the nonhazardous location, or may remain entirely within Class I, Division 2.

J	Add B- and C-size minifast, 10 conductor EXG	BVL		2/8/17	Drawing No.: NI-2.404	
Rev	Description	Drft	Chk	Date	Scale: NONE	Sheet 2 of 23



Notes:

1. The installation must be in accordance with the Canadian Electrical Code (CEC) and this control drawing.

2. Field device must be certified for installation in Class I, Division 2.

3. Model number key:

a = /14.5/NPT, /14.75/NPT, /M20, or blank	h = D or blank
b = V or blank	k = H or blank
c = M or V	m = cable or lead length in meters
d = S or blank	n = XL or blank
e = cable type (3- or 4-digit number)	p = /S1331, /S1599, /S679, /S771, /S1055,
f = 7, 8, 9, 10, 12 or 19	/S1057, /S1126, /S3001, /S3034, or blank
g = 0, 1, 2, 3, . . . , 99	q = /S1331, /S1599, or blank

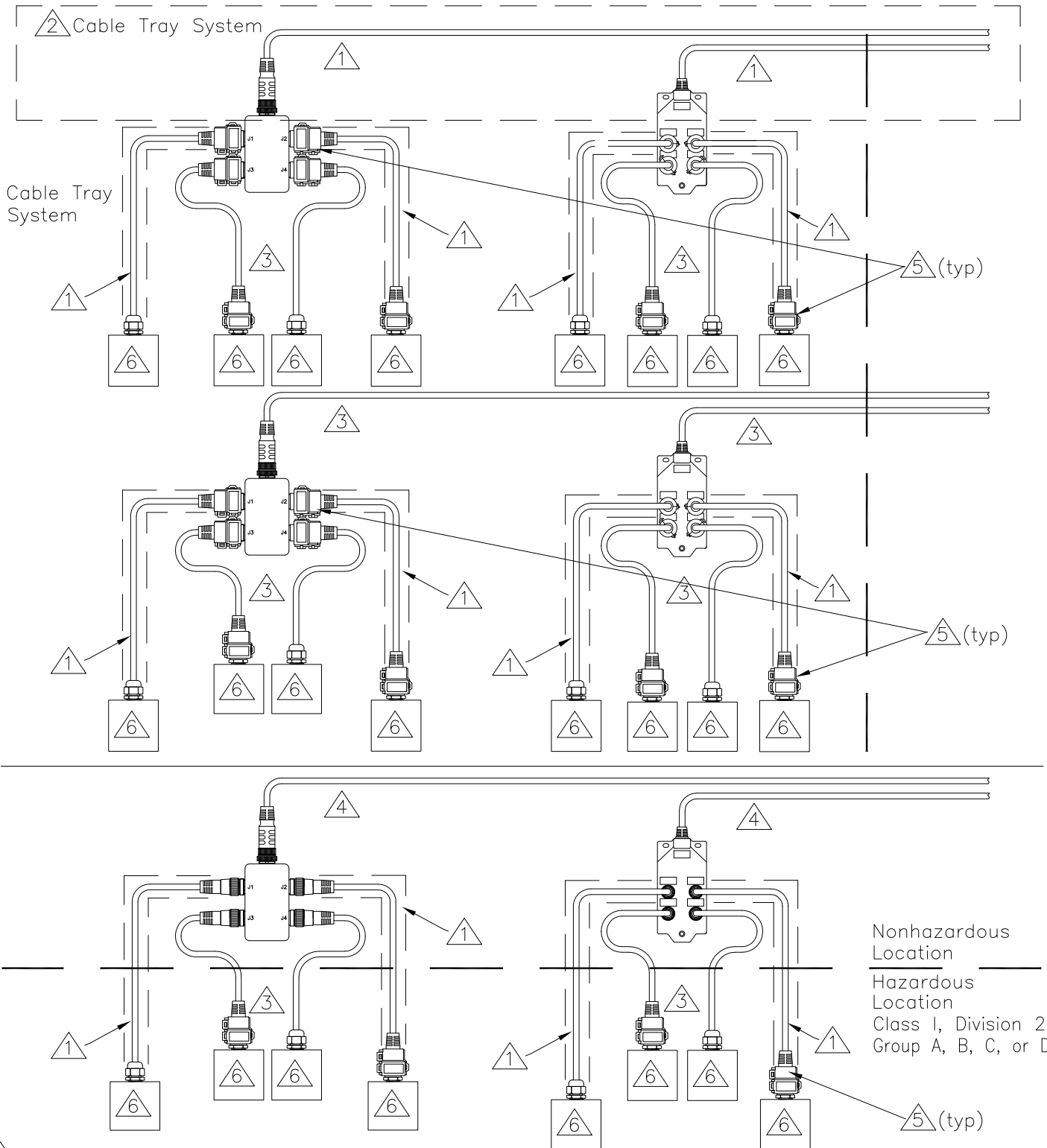
4. **lokfast**® guards on quick-disconnects require a tool to disconnect, rendering the connection not normally arcing. Use LOCK-MINI for RSM/RSV/RKM/RKV, LOCK-MINI-ANGLE for WSM/WSV/WKM/WKV, LOCK-MINI-B&C for RS.B/RK.B and LOCK-EURO-A for RSA/RKA.

5. The molded construction of the cordset and the gas/vaportight continuous sheath of the cable meet the requirements of the CEC for cable seals in Class I, Division 2. Thus, the cable may cross the boundary from Class I, Division 2 into the nonhazardous location, or may remain entirely within Class I, Division 2.

J	Add B- and C-size minifast, 10 conductor EXG	BVL		2/8/17	Drawing No.: NI-2.404	
Rev	Description	Drft	Chk	Date	Scale: NONE	Sheet 3 of 23

Hazardous Location
Class I, Division 2, Group A, B, C, or D

Nonhazardous
Location



1. Certified CIC-rated cable
2. Junction bricks connected with CIC-rated trunk cable must be installed such that the trunk cable is run in a certified cable tray system. Four-port bricks are shown for simplicity. Seven- and eight-port bricks install similarly. See the following sheets for specific requirements.
3. Certified ACIC, CMG-HL or CMX-HL cable
4. Any cable permitted by the CEC for the application
5. All connectors in the hazardous location must be secured using the appropriate **lokfast**® guard or locking couplin nut. See the instructions for the specific junction brick on the following sheets for requirements.
6. Field device CSA for installation in Class I, Division 2 hazardous locations.

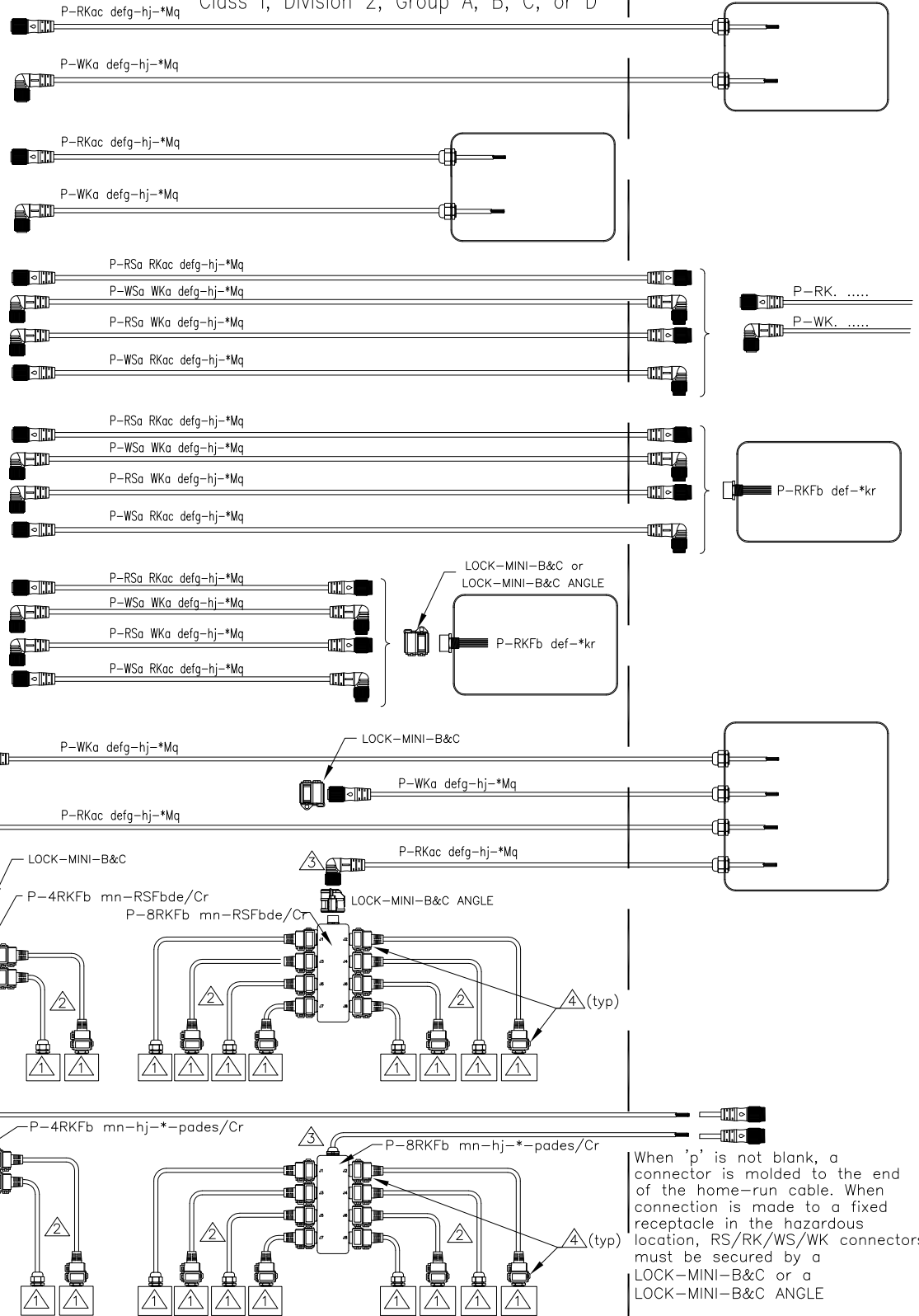
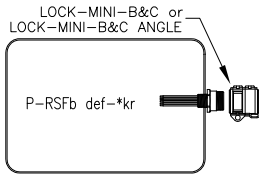
J	Add B- and C-size minifast, 10 conductor EXG	BVL		2/8/17	Drawing No.: NI-2.404	
Rev	Description	Drft	Chk	Date	Scale: NONE	Sheet 5 of 23

Hazardous Location Class I, Division 2, Group A, B, C, or D

Nonhazardous Location

Model number key:

- a = M or V
- b = V or blank
- c = S or blank
- d = 7, 8, 9, 10, 12, or 19
- e = 0, 1, 2, 3, . . . 9,
01, 02, 03, . . . 99
or blank
- f = D or blank
- g = H or blank
- h = 3- or 4-digit cable number
- j = XL or blank
- k = /14.5/NPT, /14.75/NPT,
/M20, or blank
- m = 2, 3, 4, 5, or 6
- n = 0, 1, 2, 3, . . . 99
- p = molded connector
RK, RS, WK, WS,
or blank
- q = /S1331, /S1599, /S679,
/S771, /S1055, /S1057,
/S1126, /S3001, /S3034,
or blank
- r = /S1331, /S1599, or blank
- s = A or blank



Notes:

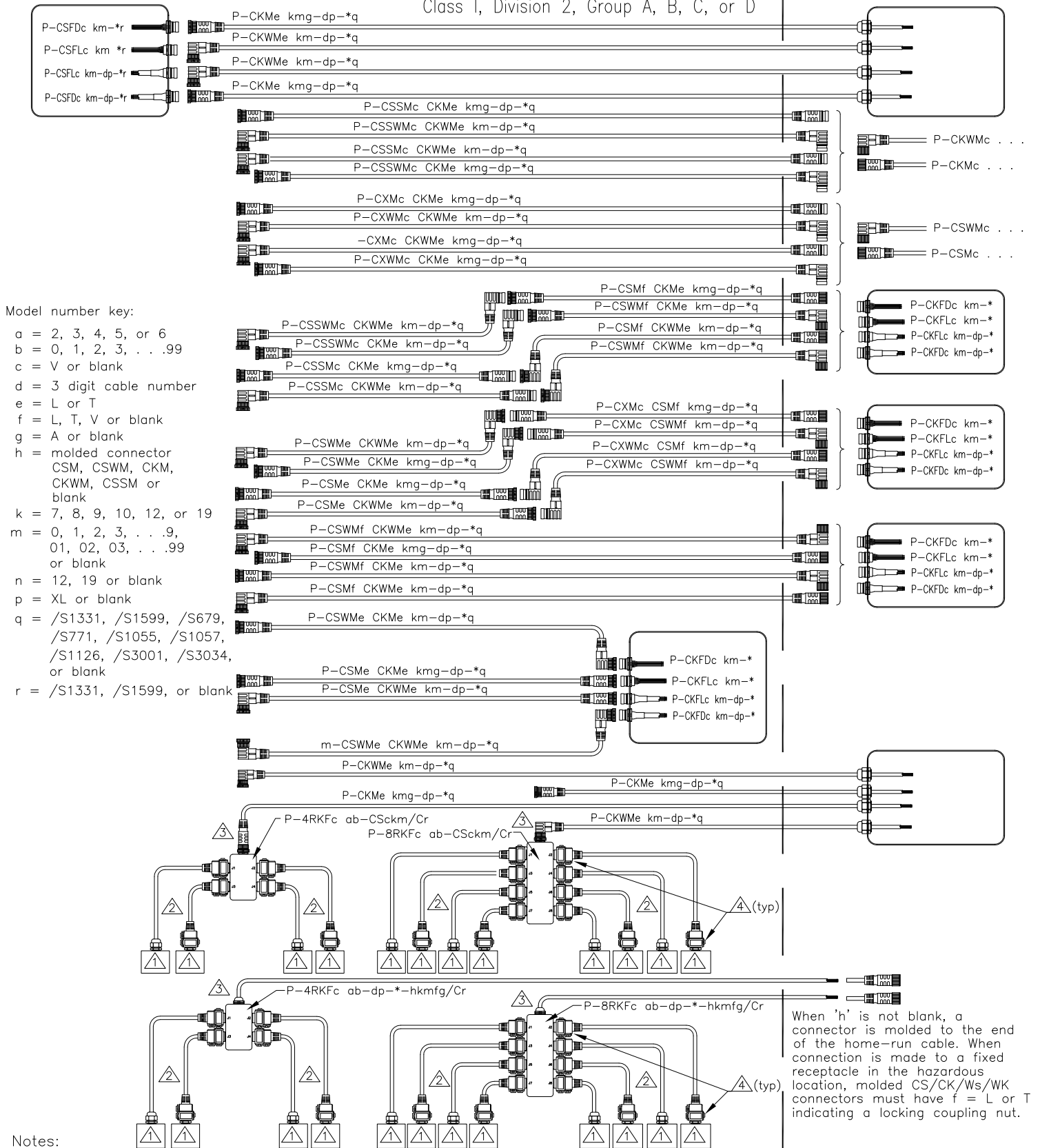
1. Field device must be certified for installation in Class I, Division 2.
2. Field circuits may be installed using any of the drop cords listed on Sheet 2. Connection to the field device may be made using a Device Gland Receptacle with **lokfast**® guard, or it may be made using certified entry fittings suitable for installation of CIG, ACIC, CMG-HL or CMX-HL cable in Class I, Division 2.
3. The potted-in construction of the integral home-run cable or the molded construction of the home-run connector, coupled with the gas/vaportight cable sheath, meets the requirements of the CEC for cable seals in Class I, Div 2.
4. All connectors in the hazardous location must be secured. Use **lokfast**® guard LOCK-MINI for RSM/RSV/RKM/RKV, LOCK-MINI-ANGLE for WSM/WSV/WKM/WKV, LOCK-MINI-B&C for RS.B/RK.B and LOCK-EURO-G for RSG/RKG.

When 'p' is not blank, a connector is molded to the end of the home-run cable. When connection is made to a fixed receptacle in the hazardous location, RS/RK/WS/WK connectors must be secured by a LOCK-MINI-B&C or a LOCK-MINI-B&C ANGLE

J	Add B- and C-size minifast, 10 conductor EXG	BVL		2/8/17	Drawing No.: NI-2.404	
Rev	Description	Drft	Chk	Date	Scale: NONE	Sheet 6 of 23

Hazardous Location Class I, Division 2, Group A, B, C, or D

Nonhazardous Location



- Notes:
- Field device must be certified for installation in Class I, Division 2.
 - Field circuits may be installed using any of the drop cords listed on Sheet 2. Connection to the field device may be made using a Device Gland Receptacle with **lokfast**® guard, or it may be made using certified entry fittings suitable for installation of CIC, ACIC, CMG-HL or CMX-HL cable in Class I, Division 2.
 - The potted-in construction of the integral home-run cable or the molded construction of the home-run connector, coupled with the gas/vaportight cable sheath, meets the requirements of the CEC for cable seals in Class I, Div 2. The set-screws on home-run connectors in the hazardous location must be engaged when the circuit is live.
 - All connectors in the hazardous location must be secured. Use **lokfast**® guard LOCK-MINI for RSM/RSV/RKM/RKV, LOCK-MINI-ANGLE for WSM/WSV/WKM/WKV, LOCK-MINI-B&C for RS.B/RK.B and LOCK-EURO-G for RSG/RKG.

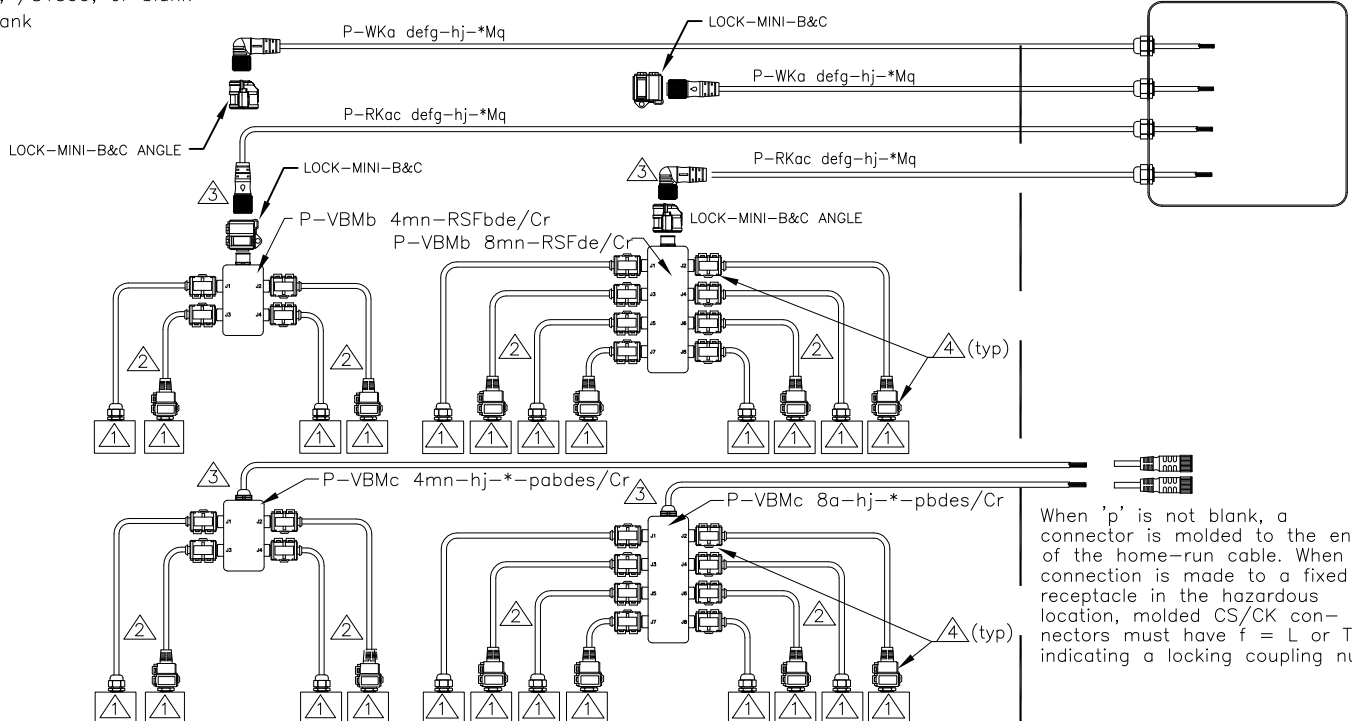
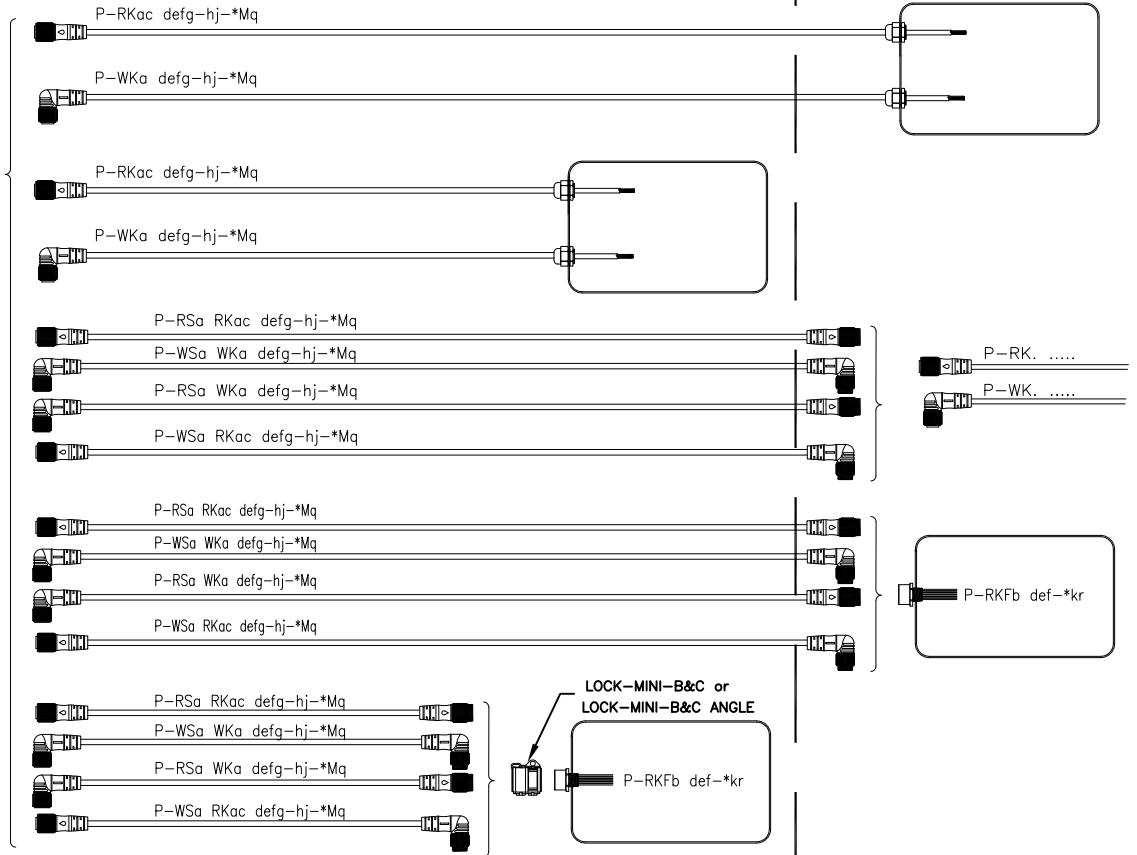
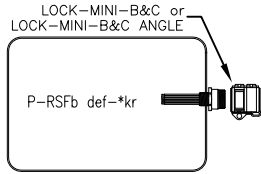
J	Add B- and C-size minifast, 10 conductor EXG	BVL		2/8/17	Drawing No.: NI-2.404	
Rev	Description	Drft	Chk	Date	Scale: NONE	Sheet 7 of 23

Hazardous Location
Class I, Division 2, Group A, B, C, or D

Nonhazardous Location

Model number key:

a = M or V
b = V or blank
c = S or blank
d = 7, 8, 9, 10, 12, or 19
e = 0, 1, 2, 3,9,
01, 02, 03,99
or blank
f = D or blank
g = H or blank
h = 3- or 4-digit cable number
j = XL or blank
k = /14.5/NPT, /14.75/NPT,
/M20, or blank
m = 4 or 5
n = 0, .1, .2, .3,99
p = molded connector
RK, RS, WK, WS,
or blank
q = /S1331, /S1599, /S679,
/S771, /S1055, /S1057,
/S1126, /S3001, /S3034,
or blank
r = /S1331, /S1599, or blank
s = A or blank



When 'p' is not blank, a connector is molded to the end of the home-run cable. When connection is made to a fixed receptacle in the hazardous location, molded CS/CK connectors must have f = L or T indicating a locking coupling nut.

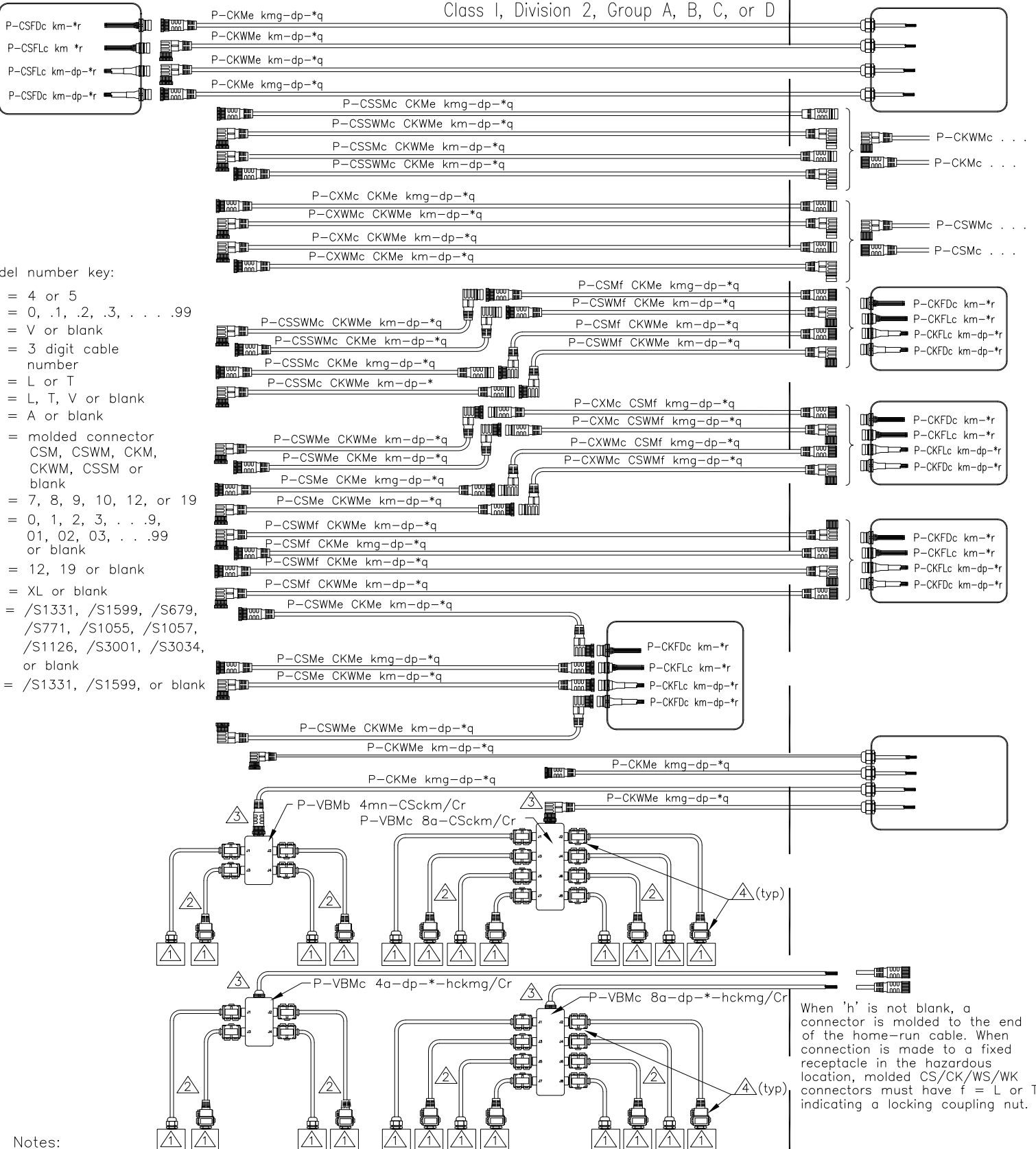
Notes:

1. Field device must be certified for installation in Class I, Division 2.
2. Field circuits may be installed using any of the drop cords listed on Sheet 2. Connection to the field device may be made using a Device Gland Receptacle with **lokfast**® guard, or it may be made using certified entry fittings suitable for installation of CIC, ACIC, CMG-HL or CMX-HL cable in Class I, Division 2.
3. The potted-in construction of the integral home-run cable or the molded construction of the home-run connector, coupled with the gas/vaportight cable sheath, meets the requirements of the CEC for cable seals in Class I, Div 2.
4. All connectors in the hazardous location must be secured. Use **lokfast**® guard LOCK-MINI for RSM/RSV/RKM/RKV, LOCK-MINI-ANGLE for WSM/WSV/WKM/WKV, LOCK-MINI-B&C for RS.B/RK.B and LOCK-EURO-G for RSG/RKG.

J	Add B- and C-size minifast, 10 conductor EXG	BVL		2/8/17	Drawing No.: NI-2.404	
Rev	Description	Drft	Chk	Date	Scale: NONE	Sheet 9 of 23

Hazardous Location Class I, Division 2, Group A, B, C, or D

Nonhazardous Location



Notes:

- Field device must be certified for installation in Class I, Division 2.
- Field circuits may be installed using any of the drop cords listed on Sheet 2. Connection to the field device may be made using a Device Gland Receptacle with **lokfast**® guard, or it may be made using certified entry fittings suitable for installation of CIC, ACIC, CMG-HL or CMX-HL cable in Class I, Division 2.
- The potted-in construction of the integral home-run cable or the molded construction of the home-run connector, coupled with the gas/vaportight cable sheath, meets the requirements of the CEC for cable seals in Class I, Div 2. The set-screws on home-run connectors in the hazardous location must be engaged when the circuit is live.
- All connectors in the hazardous location must be secured. Use **lokfast**® guard LOCK-MINI for RSM/RSV/RKM/RKV, LOCK-MINI-ANGLE for WSM/WSV/WKM/WKV, LOCK-MINI-B&C for RS.B/RK.B and LOCK-EURO-G for RSG/RKG.

When 'h' is not blank, a connector is molded to the end of the home-run cable. When connection is made to a fixed receptacle in the hazardous location, molded CS/CK/WS/WK connectors must have f = L or T indicating a locking coupling nut.

J	Add B- and C-size minifast, 10 conductor EXG	BVL		2/8/17	Drawing No.: NI-2.404
Rev	Description	Drft	Chk	Date	Scale: NONE
					Sheet 10 of 23

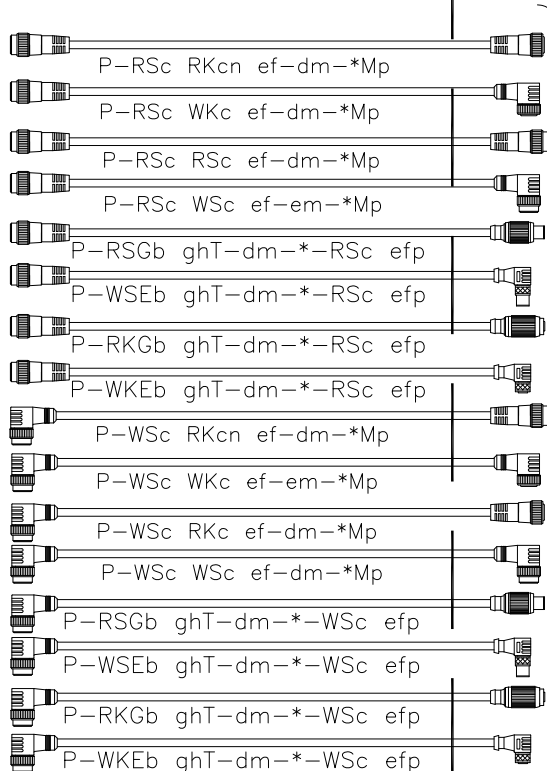
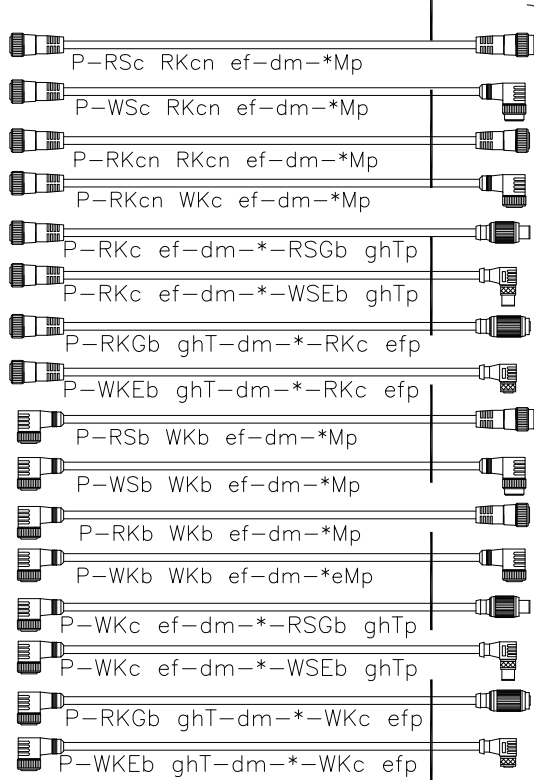
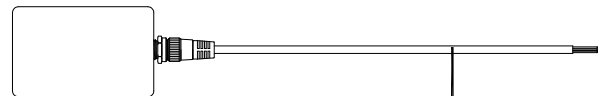
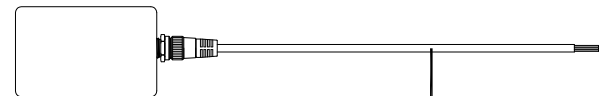
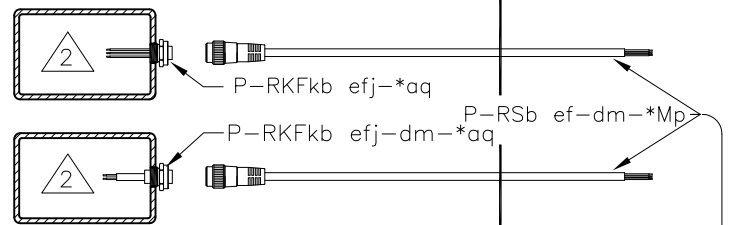
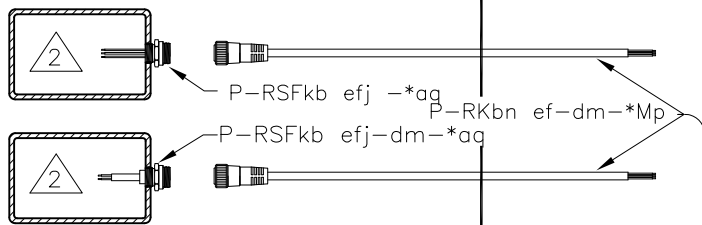
Hazardous Location
Class I, Division 1, Group A, B, C, or D
Class II, Division 1, Group E, F, or G
Class III, Division 1

Nonhazardous
Location



Hazardous Location
Class I, Division 1, Group A, B, C, or D
Class II, Division 1, Group E, F, or G
Class III, Division 1

Nonhazardous
Location



Notes:

1. The installation must be in accordance with the Canadian Electrical Code (CEC) and this control drawing.

2. Field device must be certified as intrinsically safe for installation in Class I, Division 1.

3. Model number key:

a = /14.5/NPT, /14.75/NPT, /M20, or blank

b = V or blank

c = M or V

d = cable type (3- or 4-digit number)

e = 2, 3, 4, 5, or 6

f = 0, 1, 2, 3, . . . , 99, followed by A or blank

g = 4 or 5

h = .1, .2, .3,99, followed by A or blank

j = D or blank

k = P or blank

m = XL or blank

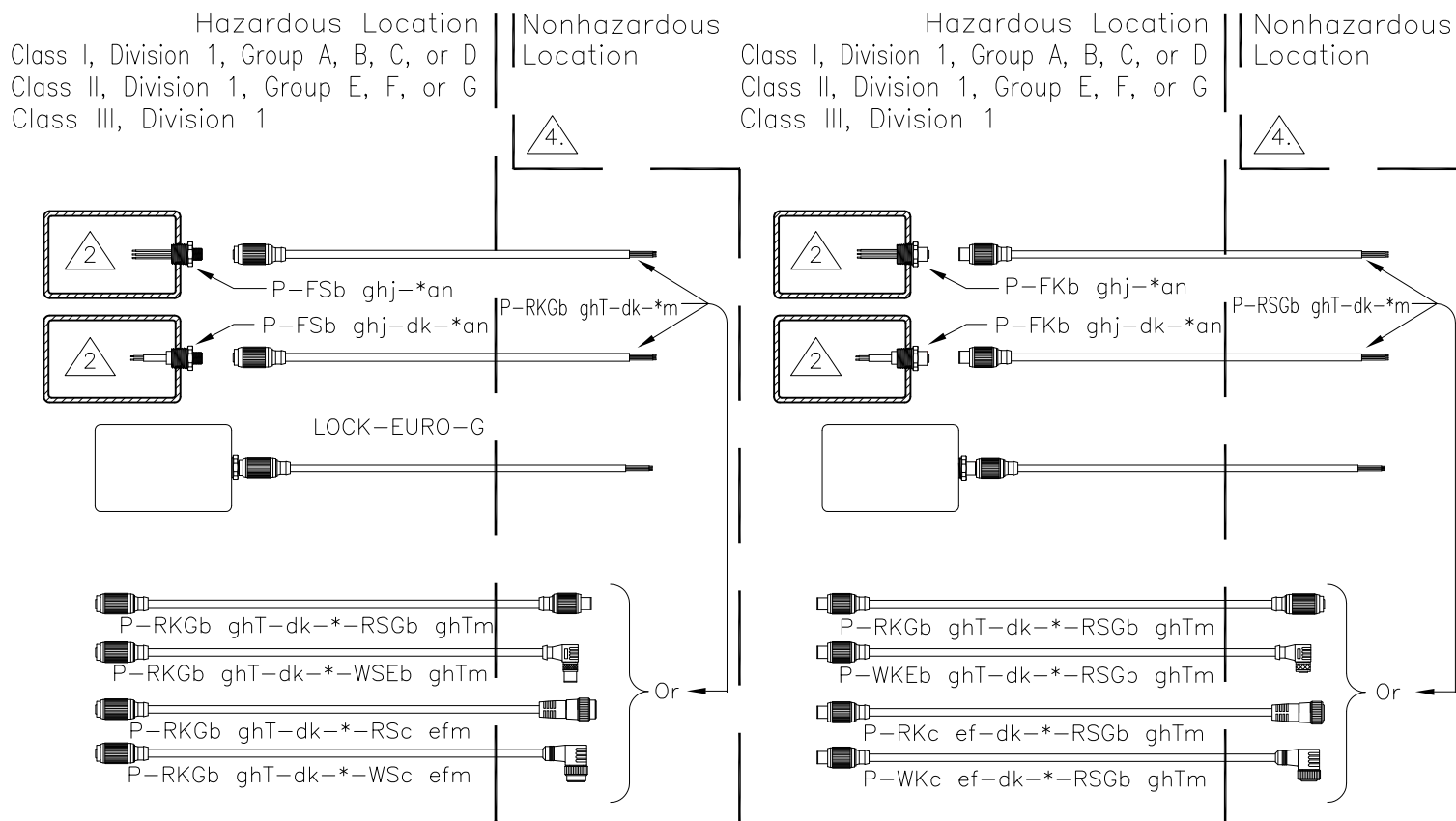
n = S or blank

p = /S1331, /S1599, /S679, /S771, /S1055,
/S1057, /S1126, /S3001, /S3034, or blank

q = /S1331, /S1599, or blank

4. The molded construction of the cordset and the gas/vaportight continuous sheath of the cable meet the requirements of the CEC for cable seals in Class I, Division 2. Thus, the cable may cross the boundary from Class I, Division 2 into the nonhazardous location, or may remain entirely within Class I, Division 2.

J	Add B- and C-size minifast, 10 conductor EXG	BVL		2/8/17	Drawing No.: NI-2.404
Rev	Description	Drft	Chk	Date	Scale: NONE
					Sheet 11 of 23



Notes:

1. The installation must be in accordance with the Canadian Electrical Code (CEC) and this control drawing.

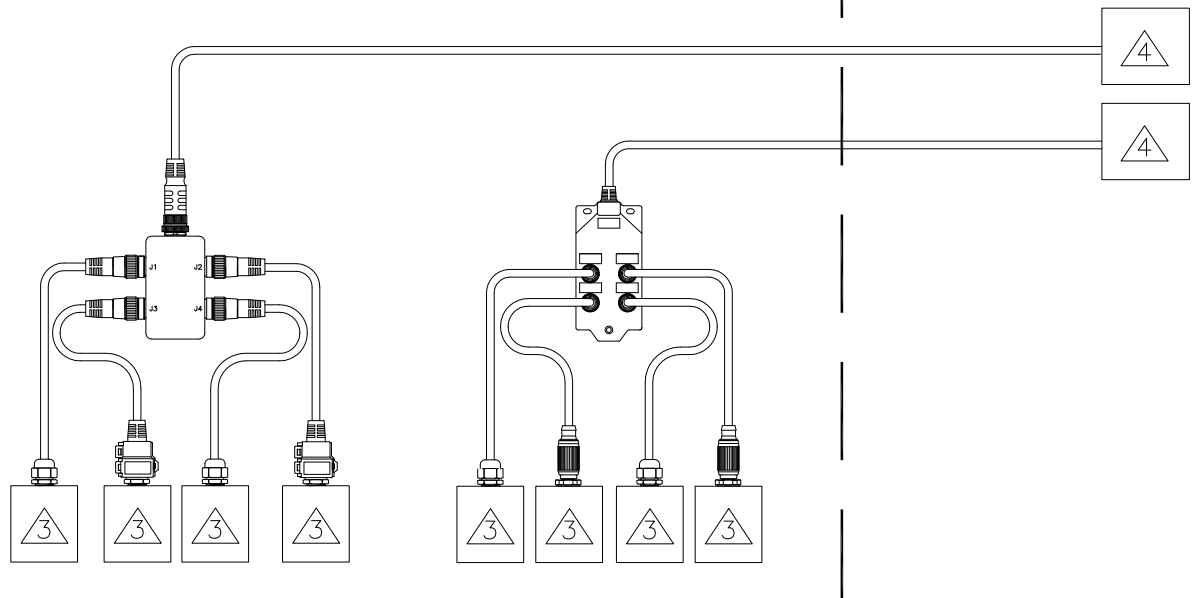
Field device must be certified as intrinsically safe for installation in Class I, Division 1.

3. Model number key:

- a = /14.5/NPT, /14.75/NPT, /M20, or blank
- b = V or blank
- c = M or V
- d = cable type (3- or 4-digit number indicating CSA certified type CMG)
- e = 2, 3, 4, 5, or 6
- f = 0, 1, 2, 3, . . . , 99, followed by A or blank
- g = 4 or 5
- h = .1, .2, .3,99, followed by A or blank
- j = D or blank
- k = XL or blank
- m = /S1331, /S1599, /S679, /S771, /S1055,
/S1057, /S1126, /S3001, /S3034, or blank
- n = /S1331, /S1599, or blank

The molded construction of the cordset and the gas/vaportight continuous sheath of the cable meet the requirements of the CEC for cable seals in Class I, Division 2. Thus, the cable may cross the boundary from Class I, Division 2 into the nonhazardous location, or may remain entirely within Class I, Division 2.

Hazardous Location	Nonhazardous Location
Class I, Division 1, Group A, B, C, or D	
Class II, Division 1, Group E, F, or G	
Class III, Division 1	



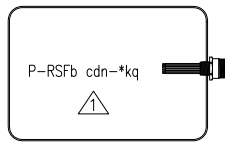
Notes:

1. Cables may be any type permitted by the CEC for the application.
2. Four-port junction bricks are shown for simplicity. Eight-port bricks install similarly. See sheets 11-13 for specific requirements.

3. Field devices must be certified as intrinsically safe for installation in Class I, Division 1 hazardous locations with entity parameters satisfying the conditions detailed on Sheets 14 and 15.
4. Certified associated apparatus with entity parameters satisfying the conditions detailed on sheets 14 and 15.

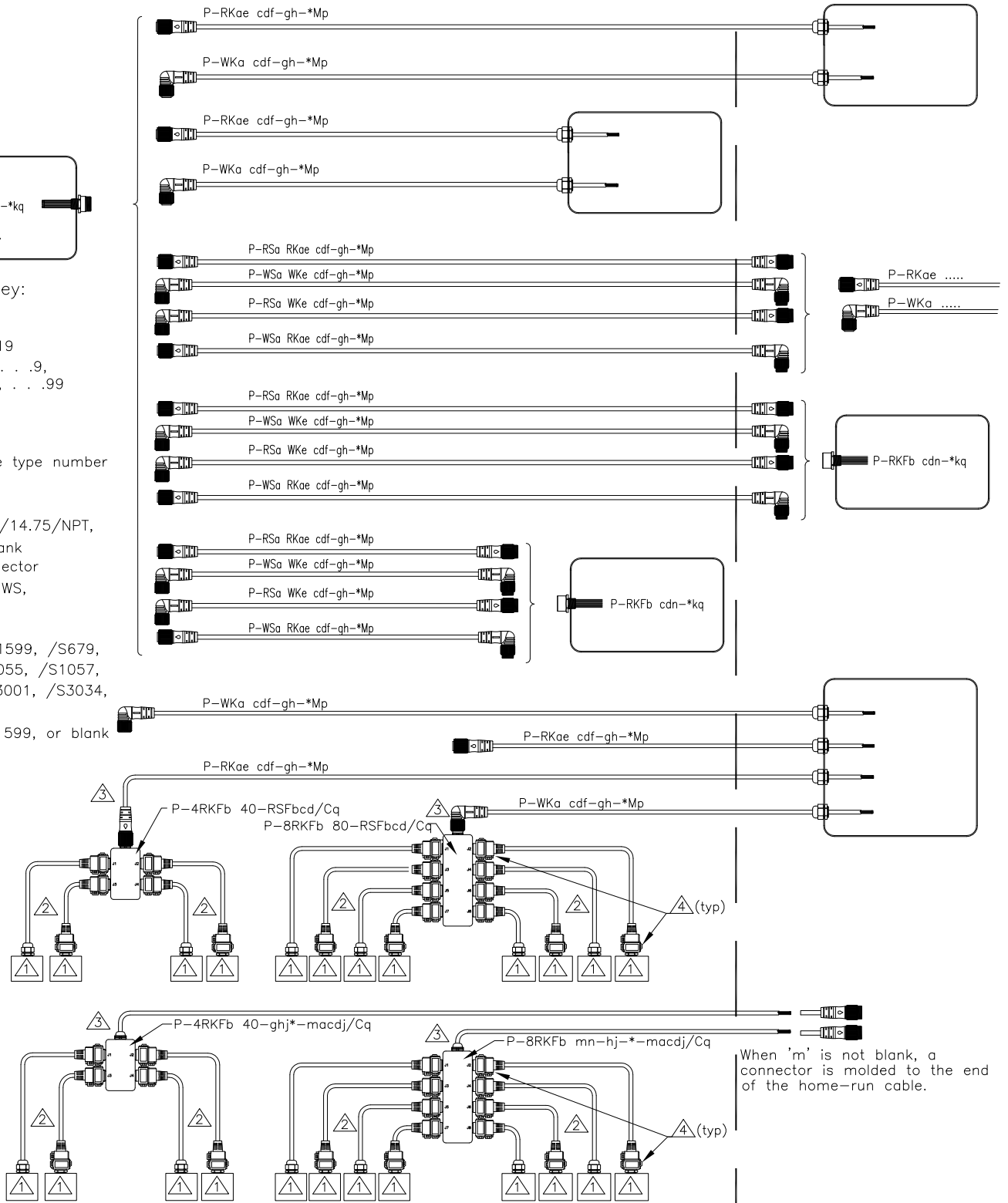
Hazardous Location
Class I, Division 1, Group A, B, C, or D

Nonhazardous Location



Model number key:

- a = M or V
- b = V or blank
- c = 10, 12, or 19
- d = 0, 1, 2, 3, . . .9,
01, 02, 03, . . .99
or blank
- e = S or blank
- f = H or blank
- g = 3 digit cable type number
- h = XL or blank
- j = A or blank
- k = /14.5/NPT, /14.75/NPT,
/M20, or blank
- m = molded connector
RK, RS, WK, WS,
or blank
- n = D or blank
- p = /S1331, /S1599, /S679,
/S771, /S1055, /S1057,
/S1126, /S3001, /S3034,
or blank
- q = /S1331, /S1599, or blank



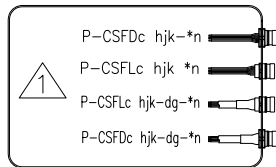
Notes:

1. Field device certified as intrinsically safe for installation in Class I, Division 1 hazardous locations with entity parameters satisfying the conditions on Sheets 19 and 20.
2. Field circuits may be installed using any of the drop cords listed on Sheet 8. Connection to the field device may be made using a Device Gland Receptacle, or it may be made using certified entry fittings suitable for installation of intrinsically safe circuits.
3. The potted-in construction of the integral home-run cable or the molded construction of the home-run connector, coupled with the gas/vaportight cable sheath, meets the requirements of the CEC for cable seals in Class I, Div 1.

J	Add B- and C-size minifast, 10 conductor EXG	BVL		2/8/17	Drawing No.: NI-2.404	
Rev	Description	Drft	Chk	Date	Scale: NONE	Sheet 14 of 23

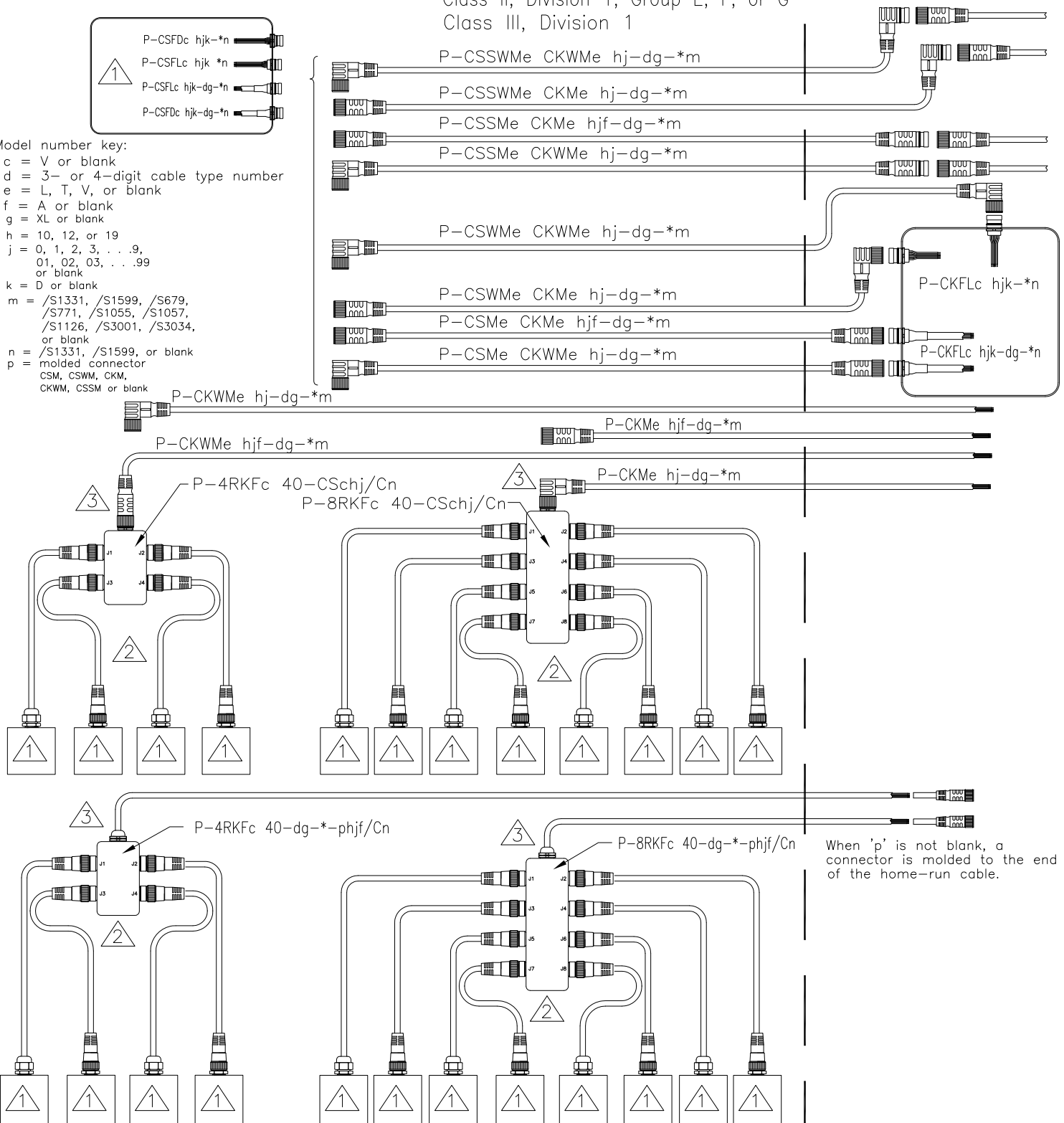
Hazardous Location
Class I, Division 1, Group A, B, C, or D
Class II, Division 1, Group E, F, or G
Class III, Division 1

Nonhazardous
Location



Model number key:

c = V or blank
d = 3- or 4-digit cable type number
e = L, T, V, or blank
f = A or blank
g = XL or blank
h = 10, 12, or 19
j = 0, 1, 2, 3, . . . 9,
01, 02, 03, . . . 99
or blank
k = D or blank
m = /S1331, /S1599, /S679,
/S771, /S1055, /S1057,
/S1126, /S3001, /S3034,
or blank
n = /S1331, /S1599, or blank
p = molded connector
CSM, CSWM, CKM,
CKWM, CSSM or blank



When 'p' is not blank, a connector is molded to the end of the home-run cable.

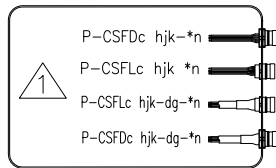
Notes:

1. Field device certified as intrinsically safe for installation in Class I, Division 1 hazardous locations with entity parameters satisfying the conditions on Sheets 19 and 20.
2. Field circuits may be installed using any of the drop cords listed on Sheet 8. Connection to the field device may be made using a Device Gland Receptacle, or it may be made using certified entry fittings suitable for installation of intrinsically safe circuits.
3. The potted-in construction of the integral home-run cable or the molded construction of the home-run connector, coupled with the gas/vaportight cable sheath, meets the requirements of the CEC for cable seals in Class I, Div 1.

J	Add B- and C-size minifast, 10 conductor EXG	BVL		2/8/17	Drawing No.: NI-2.404	
Rev	Description	Drft	Chk	Date	Scale: NONE	Sheet 15 of 23

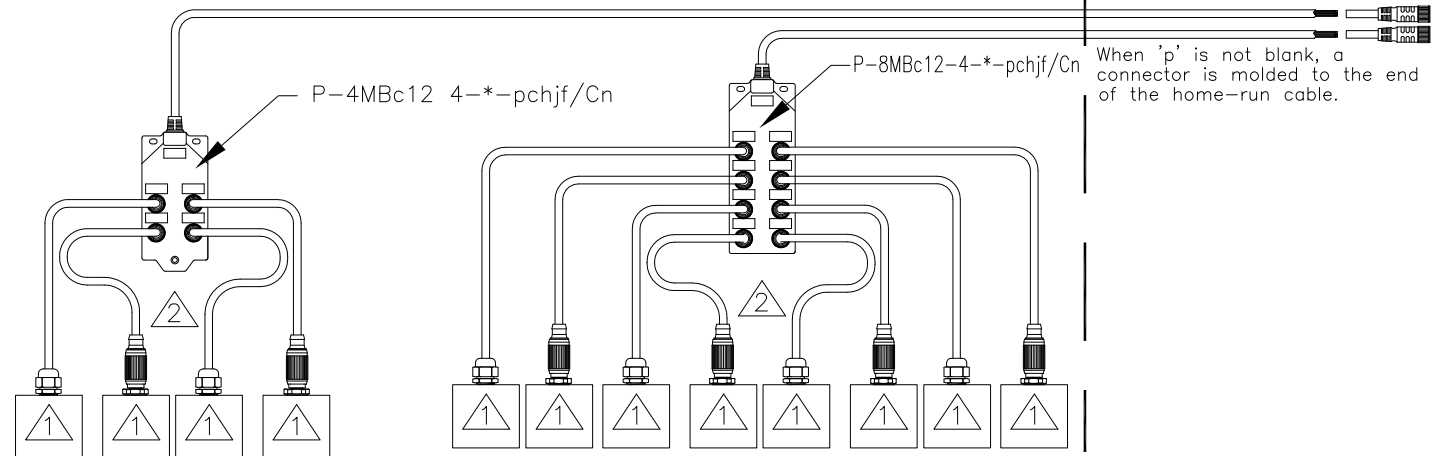
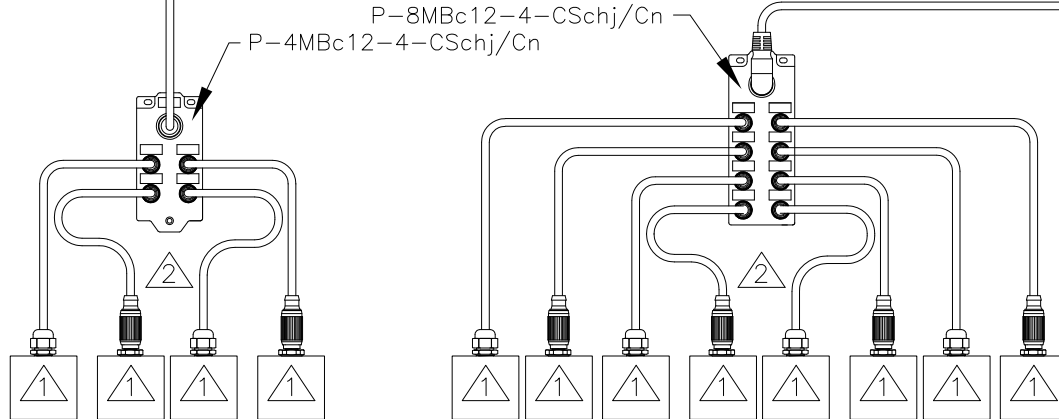
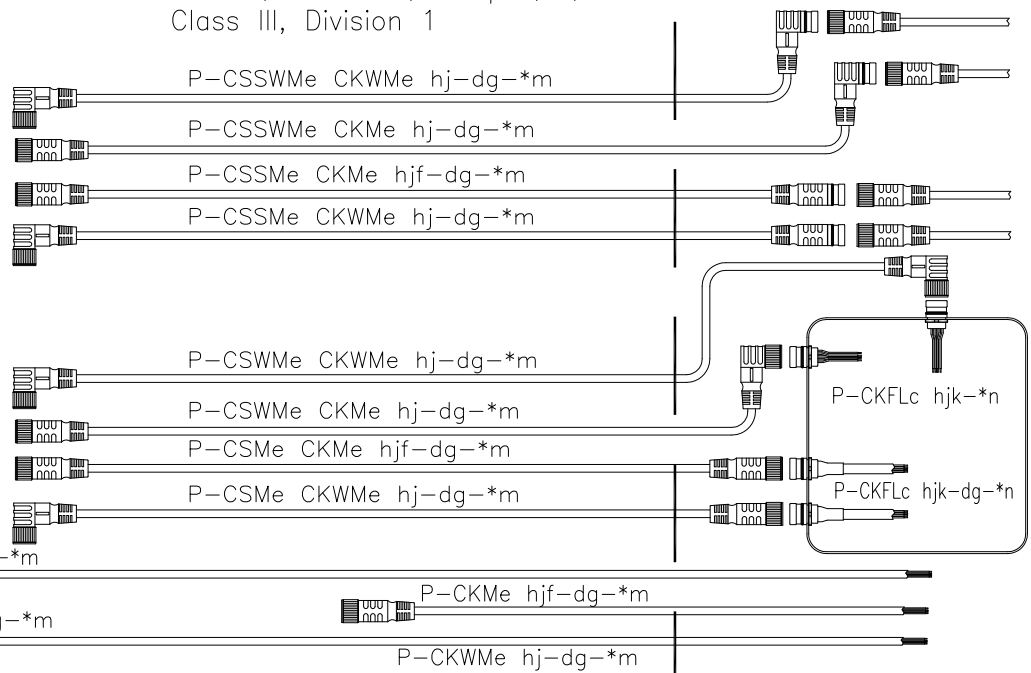
Hazardous Location
Class I, Division 1, Group A, B, C, or D
Class II, Division 1, Group E, F, or G
Class III, Division 1

Nonhazardous
Location



Model number key:

c = V or blank
d = 3- or 4-digit cable type number
e = L, T, V, or blank
f = A or blank
g = XL or blank
h = 10, 12, or 19
j = 0, 1, 2, 3, . . . 9,
01, 02, 03, . . . 99
or blank
k = D or blank
m = /S1331, /S1599, /S679,
/S771, /S1055, /S1057,
/S1126, /S3001, /S3034,
or blank
n = /S1331, /S1599, or blank
p = molded connector
CSM, CSWM, CKM,
CKWM, CSSM or blank



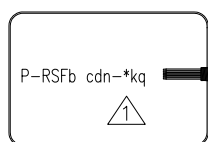
Notes:

1. Field device certified as intrinsically safe for installation in Class I, Division 1 hazardous locations with entity parameters satisfying the conditions on Sheets 19 and 20.
2. Field circuits may be installed using any of the drop cords listed on Sheet 9. Connection to the field device may be made using a Device Gland Receptacle, or it may be made using certified entry fittings suitable for installation of intrinsically safe circuits.
3. The potted-in construction of the integral home-run cable or the molded construction of the home-run connector, coupled with the gas/vaportight cable sheath, meets the requirements of the CEC for cable seals in Class I, Div 1.

J	Add B- and C-size minifast, 10 conductor EXG	BVL		2/8/17	Drawing No.: NI-2.404	
Rev	Description	Drft	Chk	Date	Scale: NONE	Sheet 16 of 23

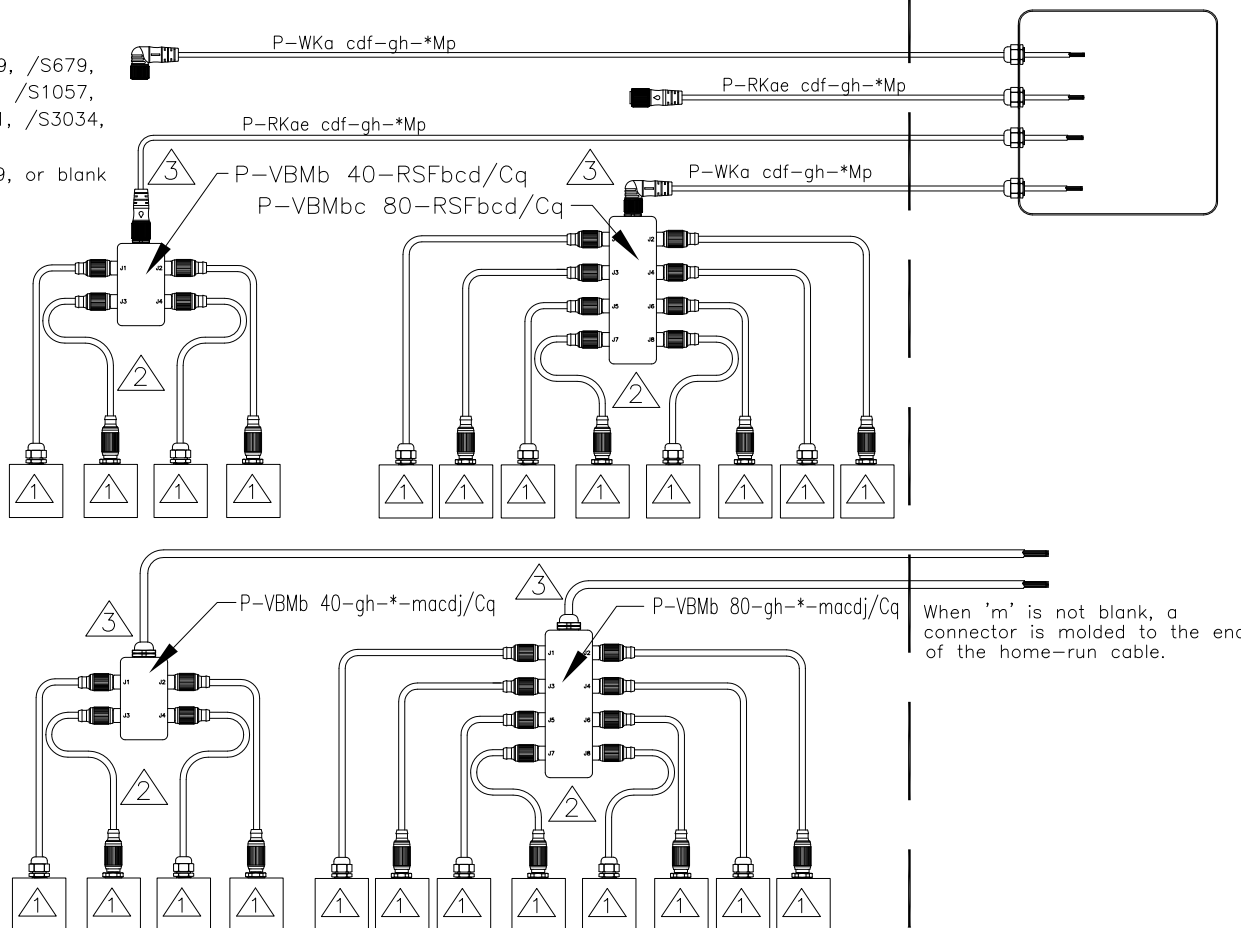
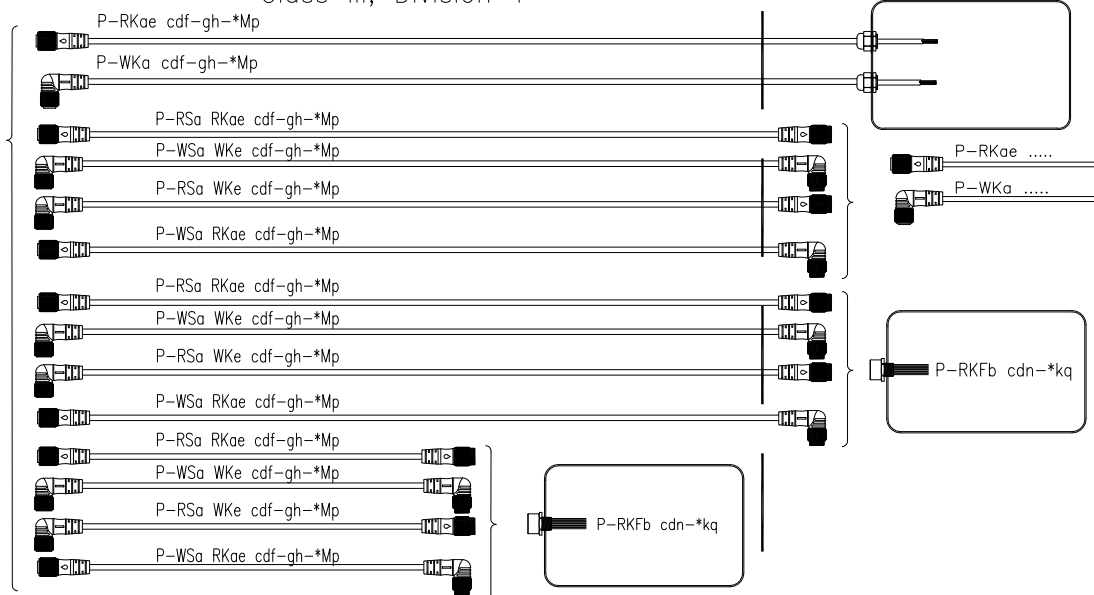
Hazardous Location
Class I, Division 1, Group A, B, C, or D
Class II, Division 1, Group E, F, or G
Class III, Division 1

Nonhazardous
Location



Model number key:

- a = M or V
- b = V or blank
- c = 10, 12, or 19
- d = 0, 1, 2, 3,9,
01, 02, 03,99
or blank
- e = S or blank
- f = H or blank
- g = 3 digit cable type number
- h = XL or blank
- j = A or blank
- k = /14.5/NPT, /14.75/NPT,
M20, or blank
- m = molded connector
RK, RS, WK, WS,
or blank
- n = D or blank
- p = /S1331, /S1599, /S679,
/S771, /S1055, /S1057,
/S1126, /S3001, /S3034,
or blank
- q = /S1331, /S1599, or blank



When 'm' is not blank, a connector is molded to the end of the home-run cable.

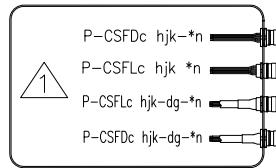
Notes:

1. Field device certified as intrinsically safe for installation in Class I, Division 1 hazardous locations with entity parameters satisfying the conditions on Sheets 19 and 20.
2. Field circuits may be installed using any of the drop cords listed on Sheet 9. Connection to the field device may be made using a Device Gland Receptacle, or it may be made using certified entry fittings suitable for installation of intrinsically safe circuits.
3. The potted-in construction of the integral home-run cable or the molded construction of the home-run connector, coupled with the gas/vaportight cable sheath, meets the requirements of the CEC for cable seals in Class I, Div 1.

J	Add B- and C-size minifast, 10 conductor EXG	BVL		2/8/17	Drawing No.: NI-2.404
Rev	Description	Drft	Chk	Date	Scale: NONE
					Sheet 17 of 23

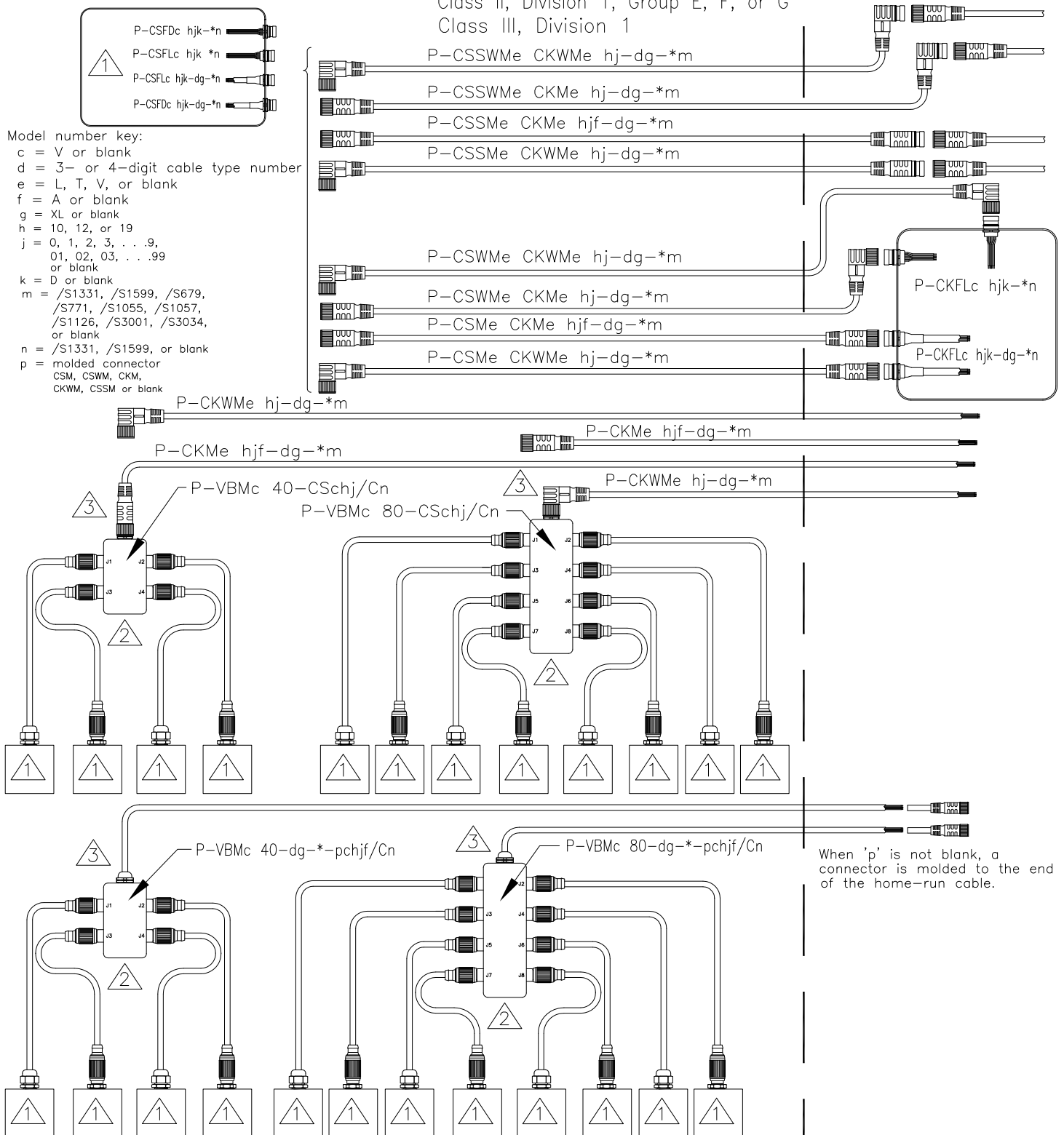
Hazardous Location
Class I, Division 1, Group A, B, C, or D
Class II, Division 1, Group E, F, or G
Class III, Division 1

Nonhazardous
Location



Model number key:

c = V or blank
d = 3- or 4-digit cable type number
e = L, T, V, or blank
f = A or blank
g = XL or blank
h = 10, 12, or 19
j = 0, 1, 2, 3, . . . 9,
01, 02, 03, . . . 99
or blank
k = D or blank
m = /S1331, /S1599, /S679,
/S771, /S1055, /S1057,
/S1126, /S3001, /S3034,
or blank
n = /S1331, /S1599, or blank
p = molded connector
CSM, CSWM, CKM,
CKWM, CSSM or blank



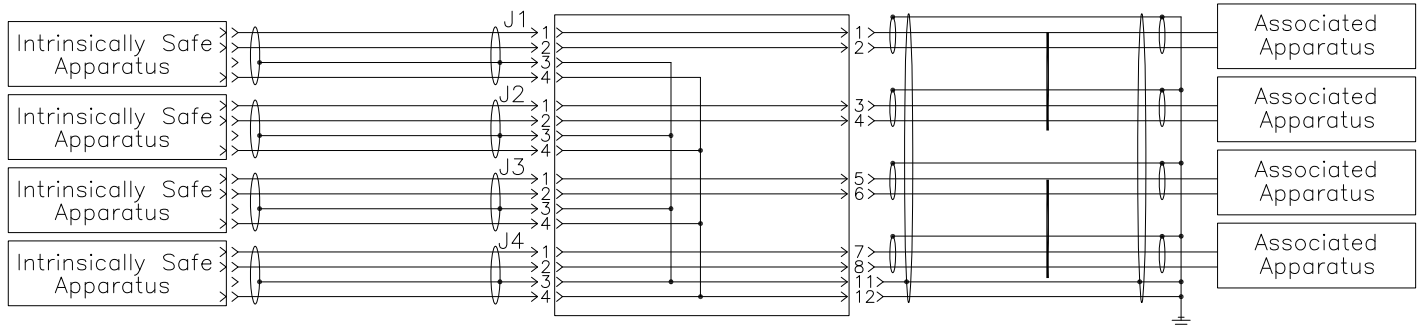
Notes:

1. Field device certified as intrinsically safe for installation in Class I, Division 1 hazardous locations with entity parameters satisfying the conditions on Sheets 19 and 20.
2. Field circuits may be installed using any of the drop cords listed on Sheet 9. Connection to the field device may be made using a Device Gland Receptacle, or it may be made using certified entry fittings suitable for installation of intrinsically safe circuits.
3. The potted-in construction of the integral home-run cable or the molded construction of the home-run connector, coupled with the gas/vaportight cable sheath, meets the requirements of the CEC for cable seals in Class I, Div 1.

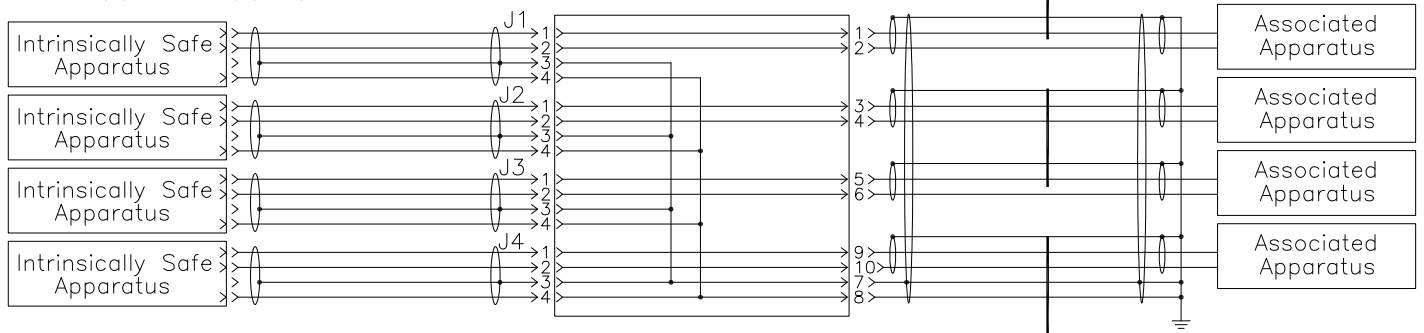
J	Add B- and C-size minifast, 10 conductor EXG	BVL		2/8/17	Drawing No.: NI-2.404	
Rev	Description	Drft	Chk	Date	Scale: NONE	Sheet 18 of 23

Hazardous Location	Nonhazardous Location
Class I, Division 1, Group A, B, C, or D	
Class II, Division 1, Group E, F, or G	
Class III, Division 1	

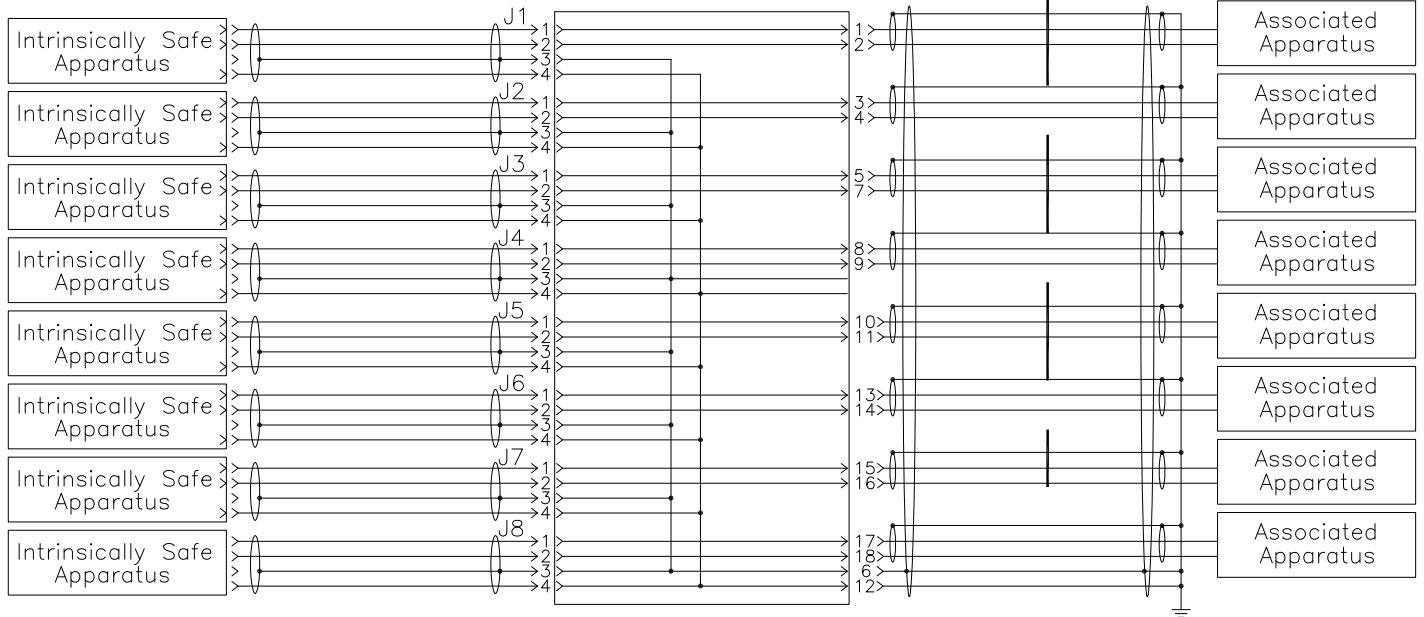
P-4RKF(V) 40-CS(V)12/C, P-4MB(V)12-4-CS(V)12/C, P-VBM(V) 40-CS(V)12/C



P-4RKF(V) 40-RS(V)10./C



P-8RKF(V) 40-CS(V)19/C, P-8MB(V)12-4-CS(V)19/C, P-VBM(V) 80-CS(V)19/C



Intrinsically Safe Apparatus:

Any certified device with Entity Concept parameters

$V_{max}/U_i \geq V_{oc}/U_o$ of the Associated Apparatus

$I_{max}/I_i \geq I_{sc}/I_o$ of the Associated Apparatus

$P_i \geq P_o$ of the Associated Apparatus

$C_i + C_{cable} \leq C_a/C_o$ of the Associated Apparatus

$L_i + L_{cable} \leq L_a/L_o$ of the Associated Apparatus

Associated Apparatus:

Any certified device with Entity Concept parameters

$V_{oc}/U_o \leq V_{max}/U_i$ of the Intrinsically Safe Apparatus and $\leq 30V$

$I_{sc}/I_o \leq I_{max}/I_i$ of the Intrinsically Safe Apparatus and $\leq 600mA$

$P_o \leq P_i$ of the Intrinsically Safe Apparatus and $\leq 4.5W$

$C_a/C_o \geq C_i$ of the Intrinsically Safe Apparatus + C_{cable}

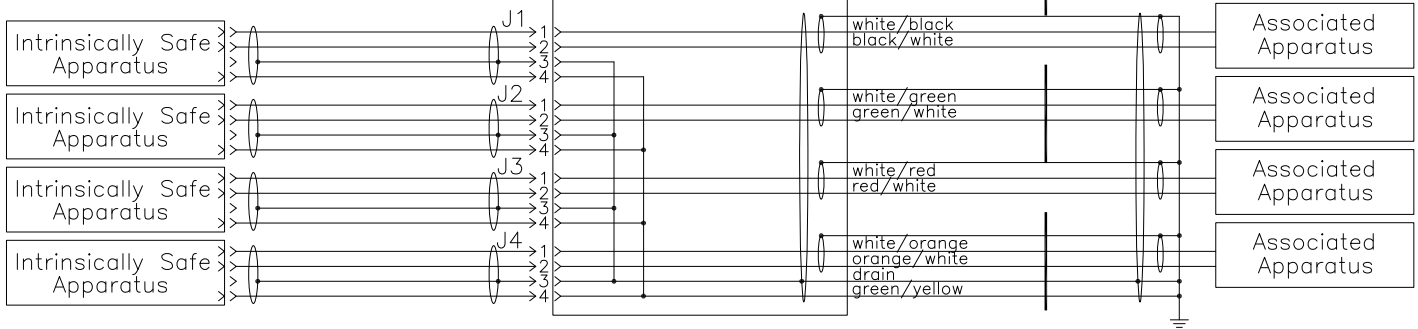
$L_a/L_o \geq L_i$ of the Intrinsically Safe Apparatus + L_{cable}

Keep the field wiring of different intrinsically safe circuits separated by physical distance or grounded shields.

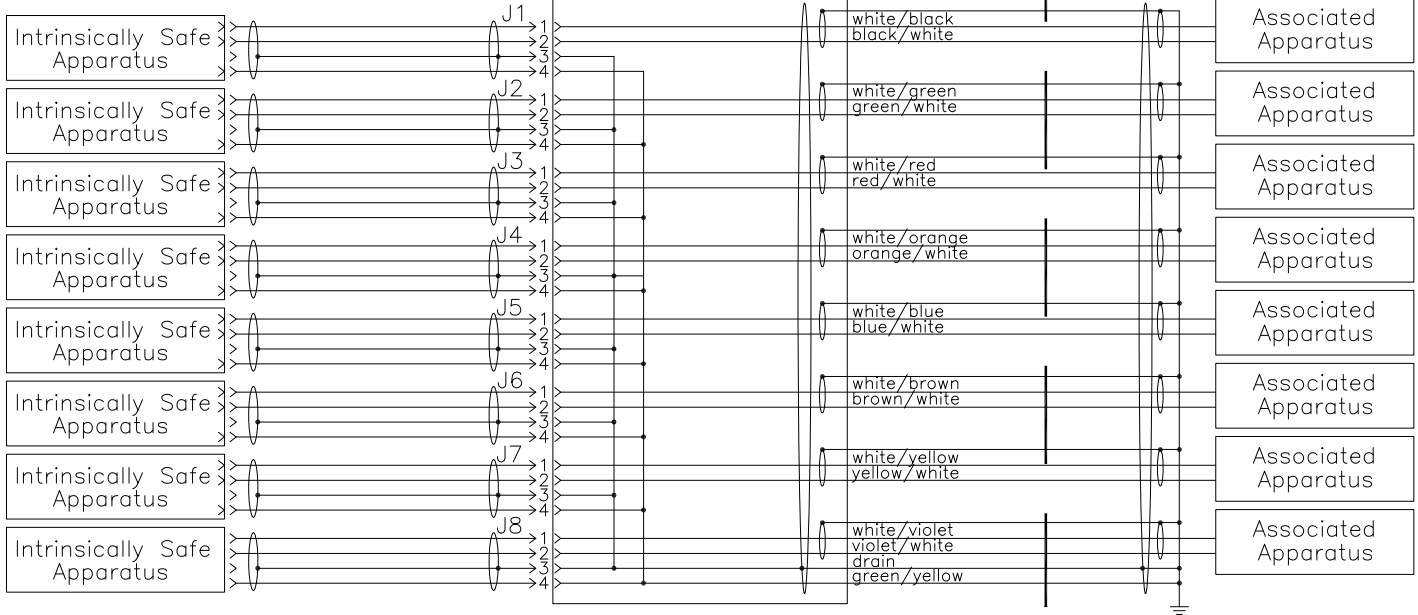
J	Add B- and C-size minifast, 10 conductor EXG	BVL		2/8/17	Drawing No.: NI-2.404	
Rev	Description	Drft	Chk	Date	Scale: NONE	Sheet 19 of 23

Hazardous Location Class I, Division 1, Group A, B, C, or D Class II, Division 1, Group E, F, or G Class III, Division 1	Nonhazardous Location
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P-4RKF(V) 40-...-*/C, P-4MB(V)12-4-...-*/C, P-VBM(V) 40-...-*/C



P-8RKF(V) 40-...-*/C, P-8MB(V)12-4-...-*/C, P-VBM(V) 80-...-*/C



Keep the field wiring of different intrinsically safe circuits separated by physical distance or grounded shields.

Intrinsically Safe Apparatus: Any certified device with Entity Concept parameters

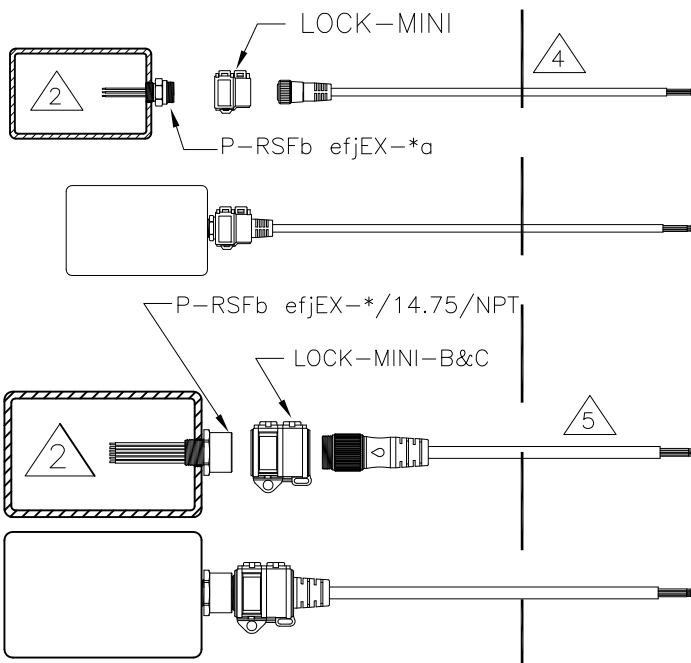
- $V_{max}/U_i \geq V_{oc}/U_o$ of the Associated Apparatus
- $I_{max}/I_i \geq I_{sc}/I_o$ of the Associated Apparatus
- $P_i \geq P_o$ of the Associated Apparatus
- $C_i + C_{cable} \leq C_a/C_o$ of the Associated Apparatus
- $L_i + L_{cable} \leq L_a/L_o$ of the Associated Apparatus

Associated Apparatus: Any certified device with Entity Concept parameters

- $V_{oc}/U_o \leq V_{max}/U_i$ of the Intrinsically Safe Apparatus and $\leq 30V$
- $I_{sc}/I_o \leq I_{max}/I_i$ of the Intrinsically Safe Apparatus and $\leq 600mA$
- $P_o \leq P_i$ of the Intrinsically Safe Apparatus and $\leq 4.5W$
- $C_a/C_o \geq C_i$ of the Intrinsically Safe Apparatus + C_{cable}
- $L_a/L_o \geq L_i$ of the Intrinsically Safe Apparatus + L_{cable}

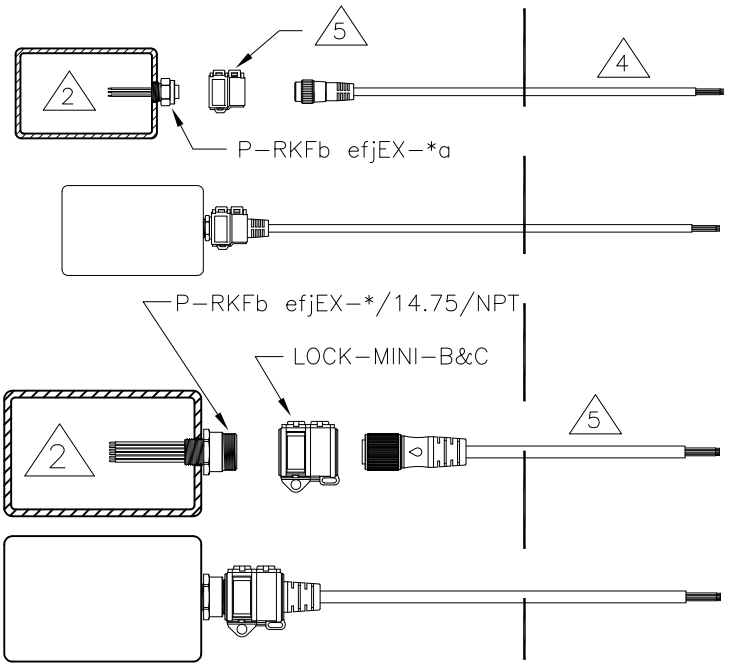
Hazardous Location
Class I, Division 2
Group A, B, C, or D

Nonhazardous
Location



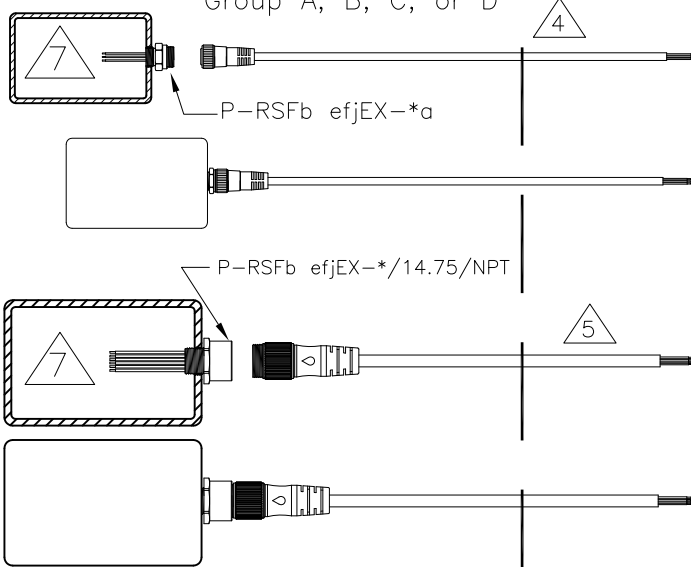
Hazardous Location
Class I, Division 2
Group A, B, C, or D

Nonhazardous
Location



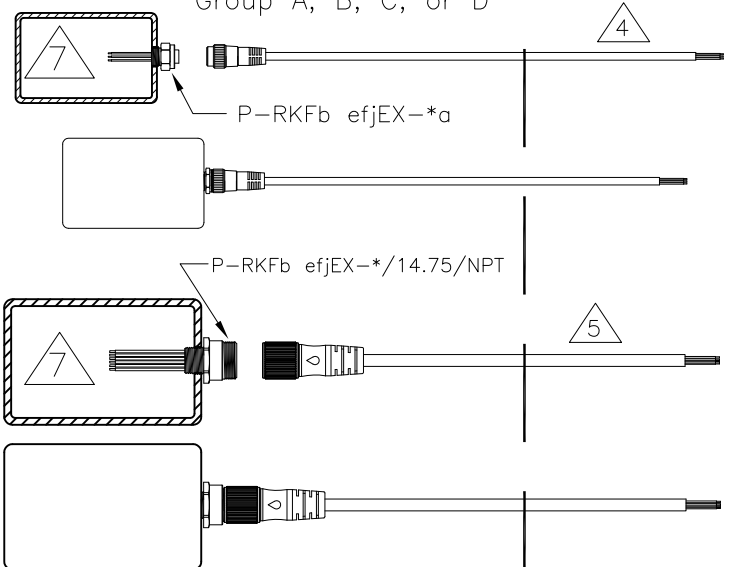
Hazardous Location
Class I, Division 1
Group A, B, C, or D

Nonhazardous
Location



Hazardous Location
Class I, Division 1
Group A, B, C, or D

Nonhazardous
Location



Notes:

1. The installation must be in accordance with the Canadian Electrical Code (CEC) and this control drawing.

2. Field device certified as explosionproof, installed in Division 2. The receptacle meets the requirements to maintain the explosionproof protection of the field device with respect to an internal ignition.

3. Model number key:

a = /14.5/NPT, /14.75/NPT, /M20, or blank

b = V or blank

c = 7, 3, 9, 10, or 12

e = 2, 3, 4, 5, or 6

f = 0, 1, 2, 3, . . . , 99 followed by A or blank

j = D or blank

4. Certified minifast cords installed as shown on Sheet 2.

5. Certified minifast cords installed as shown on Sheet 3.

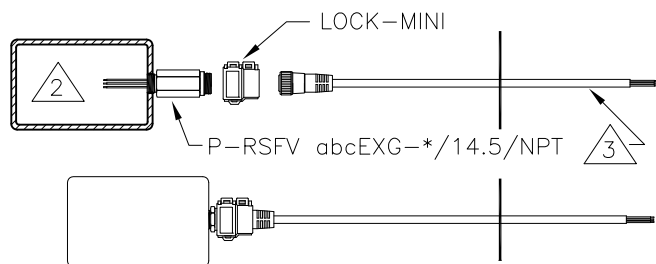
6. **lokfast**® guards on quick-disconnects require a tool to disconnect, rendering the connection not normally arcing.

7. Field device certified as explosionproof with a certified intrinsically safe circuit exiting or entering the enclosure via the P-R.Fb-efjEX... receptacle.

J	Add B- and C-size minifast, 10 conductor EXG	BVL		2/8/17	Drawing No.: NI-2.404	
Rev	Description	Drft	Chk	Date	Scale: NONE	Sheet 21 of 23

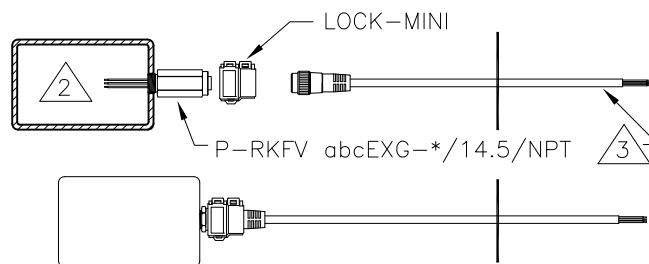
Hazardous Location
Class I, Division 2
Group A, B, C, or D

Nonhazardous
Location



Hazardous Location
Class I, Division 2
Group A, B, C, or D

Nonhazardous
Location



a = Number of conductors 2, 3 or 4

b = Color, pinout, wire gauge code 0, 1, 2, 3, . . . , 99, followed by A or blank

c = Standard drain conductor code D or blank

Notes:

1. The installation must be in accordance with the Canadian Electrical Code (CEC) and this control drawing.

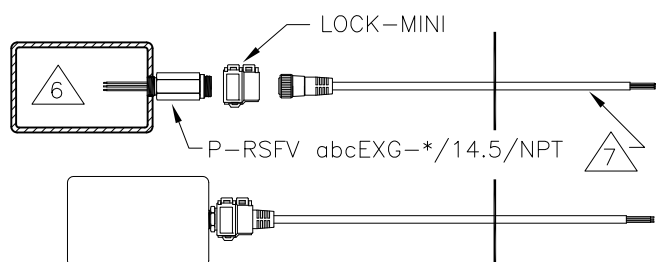
2. Field device certified as explosionproof, installed in Class I, Division 2; or certified for installation in Class I, Division 2. The receptacle meets the requirements to maintain explosionproof protection of the field device with respect to an internal ignition.

3. Field device may be connected using any of the cords and methods detailed on Sheet 2.

4. The receptacle functions as a secondary conduit seal to prevent migration of gases at pressures up to 2000 psi (137.9 bar).

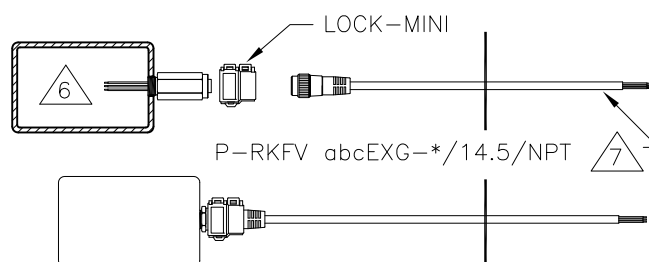
Hazardous Location
Class I, Division 1
Group A, B, C, or D

Nonhazardous
Location



Hazardous Location
Class I, Division 1
Group A, B, C, or D

Nonhazardous
Location



a = Number of conductors 2, 3 or 4

b = Color, pinout, wire gauge code 0, 1, 2, 3, . . . , 99 followed by A or blank

c = Standard drain conductor code D or blank

Notes:

5. The installation must be in accordance with the Canadian Electrical Code (CEC) and this control drawing.

6. Field device certified as intrinsically safe for installation in Class I, Division 1 hazardous locations with entity parameters satisfying the conditions on Sheets 19 and 20.

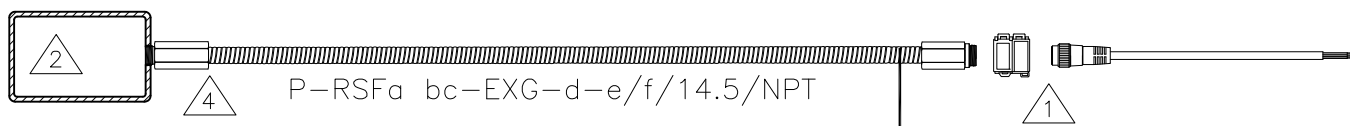
7. Field circuits may be installed using any of the drop cords listed on Sheet 11. Connection to the field device may be made using a Device Gland Receptacle, or it may be made using certified entry fittings suitable for installation of intrinsically safe circuits.

8. The receptacle functions as a secondary conduit seal to prevent migration of gases at pressures up to 2000 psi (137.9 bar).

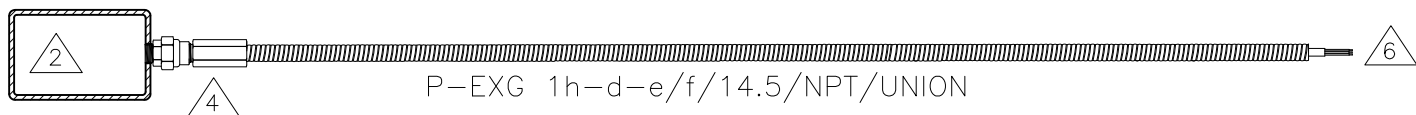
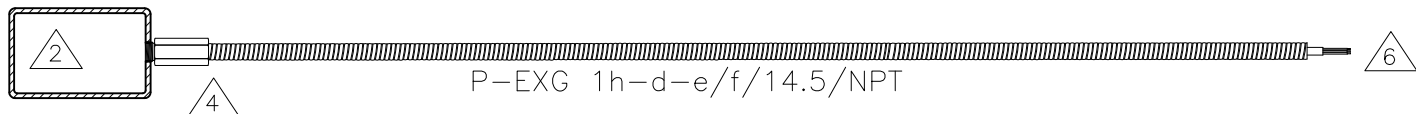
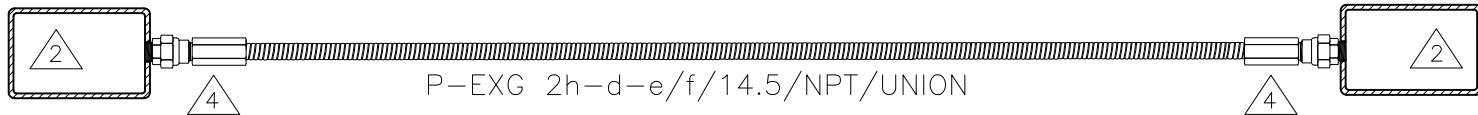
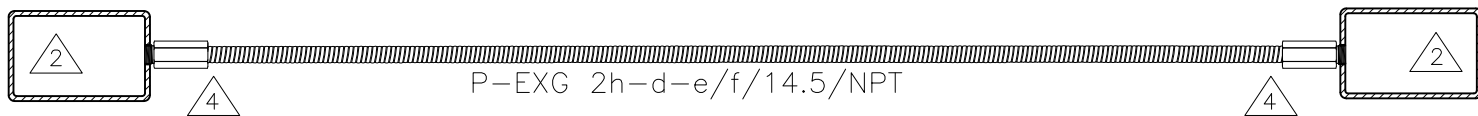
J	Add B- and C-size minifast, 10 conductor EXG	BVL		2/8/17	Drawing No.: NI-2.404	
Rev	Description	Drft	Chk	Date	Scale: NONE	Sheet 22 of 23

Class I, Division 1
Group A, B, C, or D

Class I, Division 2
Group A, B, C, or D



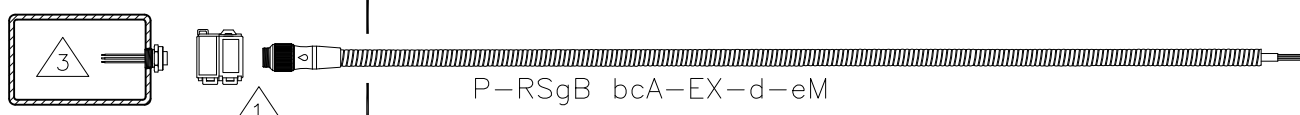
Class I, Division 1
Group A, B, C, or D



Class I, Division 2
Group A, B, C, or D

Class I, Division 1
Group A, B, C, or D

Class I, Division 2
Group A, B, C, or D



Notes:

1. Certified minifast cords installed as shown on Sheet 2.
2. Field device certified as explosionproof
3. Field device certified for installation in Class I, Division 2
4. The P-RSF a bc-EXG-e/f/14.5/NPT receptacle maintains the explosionproof protection of the CSA certified field device. The minifast connector end of the receptacle must be installed in a Class I, Division 2 or nonhazardous location.
5. The construction of the cordset and the gas/vaportight continuous sheath of the cable meet the requirements of the CEC for cable seals in Class I, Divisions 1 and 2.
6. Terminated using methods appropriate for ACIC-HL cable in the specific hazardous location

7. Model Codes:

a = V or blank	e = cable length in meters
b = 2, 3, 4, 5, 6, 7, 8, 9, 10, or 12	f = lead length in meters
c = 0, 1, 2, 3, . . . 9, 01, 02, 03, . . . 99	g = M or V
d = 4-digit ACIC-HL cable number	h = Configuration code A1, A2, A3, . . . Z9 or blank

J	Add B- and C-size minifast, 10 conductor EXG	BVL		2/8/17	Drawing No.: NI-2.404
Rev	Description	Drft	Chk	Date	Scale: NONE
					Sheet 23 of 23