

ENCLOSURE
NEMA 4X
316 STAINLESS STEEL
20" X 16" X 8"

COMPRESSOR PROXIMATORS

YORK TAG NO.	SERVICE DESCRIPTION
XT-1231AX6	COMPRESSOR SHAFT-END, RADIAL VIBRATION "X"
XT-1231AX6	COMPRESSOR SHAFT-END, RADIAL VIBRATION "Y"
XT-1231AX7	COMPRESSOR SUMP-END, RADIAL VIBRATION "X"
XT-1231AX7	COMPRESSOR SUMP-END, RADIAL VIBRATION "Y"
XT-1231AK1	COMPRESSOR KEYPHASOR PROBE
XT-1231AP0	COMPRESSOR AXIAL THRUST
XT-1231AP1	COMPRESSOR AXIAL THRUST

TAG NUMBERS SHOWN ARE FOR ITEM 1000, LETTER "A" IN TAG NUMBER SHALL BE SEQUENCED 'B' THRU 'F' FOR ITEMS 2000 THRU 6000.

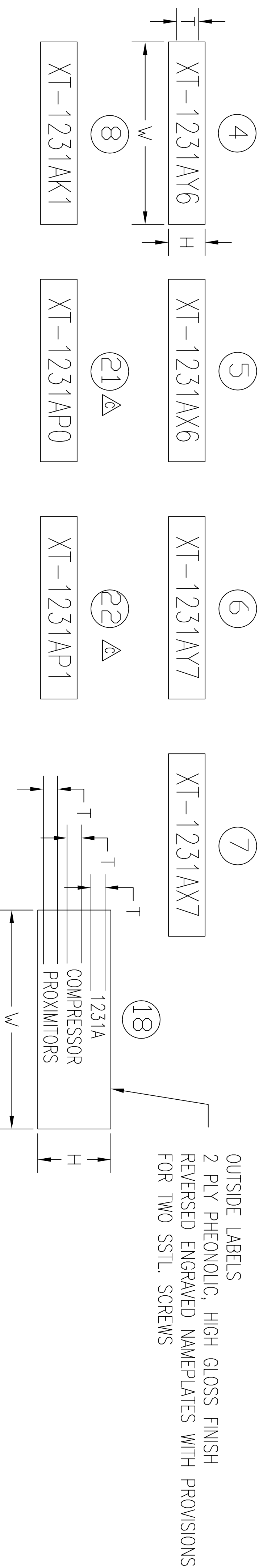
THIS DRAWING CERTIFIED
FOR SANDRIDGE ENERGY
ORDER NO. 294100
YORK REFRIGERATION
Waynesboro, PA
PER RAOLIVER DATE 3/1/10

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES DO NOT SCALE		TITLE COMPRESSOR PROXIMATOR JUNCTION BOX		REVISIONS		THIS DRAWING AND THE SUBJECT MATTER IT CONTAINS, ARE PROPERTY OF JOHNSON CONTROLS/YORK COMPANY. IT MAY NOT BE USED, NOR COPIED FOR DISTRIBUTION, BEYOND THE REQUIREMENTS OF THE PROJECT REFERENCED ON THIS DRAWING.																									
UNLESS OTHERWISE SPECIFIED TOLERANCES PER QWP 18		SHEET DETAIL PANEL LAYOUT		<table border="1"> <thead> <tr> <th>REV</th> <th>ECN</th> <th>DESCRIPTION</th> <th>DATE</th> <th>DR</th> <th>APP</th> </tr> </thead> <tbody> <tr> <td>A</td> <td></td> <td>ENGINEERING CHANGES</td> <td>5/01/09</td> <td>MER</td> <td>RAO</td> </tr> <tr> <td>B</td> <td></td> <td>CHANGES PER ENGINEERING REQUEST</td> <td>5/8/09</td> <td>SJC</td> <td>RAO</td> </tr> <tr> <td>C</td> <td></td> <td>CHANGES PER AS-BUILT</td> <td>3/1/10</td> <td>SJC</td> <td>RAO</td> </tr> </tbody> </table>		REV	ECN	DESCRIPTION	DATE	DR	APP	A		ENGINEERING CHANGES	5/01/09	MER	RAO	B		CHANGES PER ENGINEERING REQUEST	5/8/09	SJC	RAO	C		CHANGES PER AS-BUILT	3/1/10	SJC	RAO	© COPYRIGHT 2/9/09 JCI/YORK, ALL RIGHTS RESERVED	
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DR S.J.COX 2/9/09		PURCHASER SANDRIDGE ENERGY		NOTICE TO PURCHASER REFER TO CONTRACT FOR MATERIAL TO BE SUPPLIED BY JCI/YORK. THE AMOUNT OF SUCH MATERIAL IS NOT INCREASED BY ANYTHING SHOWN UPON THIS DRAWING.																											
CHK RAOLIVER 2/9/09		1601 N.W. EXPRESSWAY SUITE 1600		100 CV AE		P.O. BOX 997																									
APPD RAOLIVER 2/9/09		OKLAHOMA CITY, OK 73118		Waynesboro, PA 17268																											
CODE		YORK ORD NO 294100		PURCH ORD NO 27607-P-13-012JCI																											

BILL OF MATERIAL

ITEM	SAP NUMBER	MAPICS NUMBER	VENDOR PART NUMBER	QTY	DESC	REV	REVCHGSS
1	467259	33300001878	CSD20168SS6	1	ENCLOSURE 20" x 16" x 8" 316 SS	-	-
2	467259	33300001878	0514500000	1	DINRAIL	-	-
3	493527	913A0128H01	330980-71-05	7	3300 XL NSV. PROXIMITOR	-	-
4		29410035P01	29410035P01	1	NAMEPLATE 1/2" x 2-1/2" (XT-1231AV6)	-	-
5		29410035P02	29410035P02	1	NAMEPLATE 1/2" x 2-1/2" (XT-1231AX6)	-	-
6		29410035P03	29410035P03	1	NAMEPLATE 1/2" x 2-1/2" (XT-1231AV7)	-	-
7		29410035P04	29410035P04	1	NAMEPLATE 1/2" x 2-1/2" (XT-1231AX7)	-	-
8		29410035P05	29410035P05	1	NAMEPLATE 1/2" x 2-1/2" (XT-1231AK1)	-	-
9		29410035P06	29410035P06	1	NAMEPLATE 1/2" x 2-1/2" (ZT-1231AP0)	C	DELETED
10	455051	11100281022	L70	1	GROUNDING LUG	-	-
11	455039	11100280956	ED015-TB	2	DRAIN / BREATHER	-	-
12	493363	911A0333H01	H050-TB	2	CONDUIT HUB	B	DELETED
13	484201	639A0245H04	CP-2016	1	SUB-PLATE CARBON STEEL	-	-
14		29410045P01	29410045P01	1	NAMEPLATE 1/2" x 2-1/2" (ZT-1231AP1)	C	DELETED
15	484446	640A0045G01	640A0045G01	1	LABEL EARTH GROUND SYMBOL	-	-
16	467022	33300001187	1061200000	2	END BRACKET - WEW 35/2	-	-
17	484448	640A0048G01	640A0048G01	1	LABEL CHECK OUT	-	-
18		29410045P05	29410045P05	1	NAMEPLATE 1" x 3" (1231A)	-	-
19	455410	11100740694	11100740694	2	SCREW PHSS 6-32 x 3/8 SS	-	-
20	492863	911A0088H01	911A0088H01	2	HUB CONNECTOR, 1/2" NPT	B	ADDED
21		29410035P18	29410035P18	1	NAMEPLATE 1/2" x 2-1/2" (XT-1231AP0)	C	ADDED
22		29410035P19	29410035P19	1	NAMEPLATE 1/2" x 2-1/2" (XT-1231AP1)	C	ADDED

TOTAL OF (6) JUNCTION BOXES.
 REQUIRED-(1) REQUISITION 29410035P01, 29410035P02,
 29410035P03, 29410035P04, 29410035P05,
 29410035P06, 29410045P01, & 29410045P05 FOR ALL
 (6) JUNCTION BOX NAMEPLATES.
 EACH JUNCTION BOX TO HAVE A DIFFERENT NAMEPLATE
 AS FOLLOWS:



NOTE:
 NAMEPLATE HOLES TO BE DRILLED AT YORK/JCI

OUTSIDE LABELS
 2 PLY PHEONOLIC, HIGH GLOSS FINISH
 REVERSED ENGRAVED NAMEPLATES WITH PROVISIONS
 FOR TWO SSTL. SCREWS

NOTE: LABELS NOT TO SCALE

ITEM	PART NUMBER	PAGE	SIZE (H" X W")	LINE 1	LINE 2	LINE 3	BACKGROUND	LETTERING	LETTERING HEIGHT (T")
4	29410035P01	01	1/2" X 2-1/2"	XT-1231AY6			WHITE	BLACK	.30"
5	29410035P02	01	1/2" X 2-1/2"	XT-1231AX6			WHITE	BLACK	.30"
6	29410035P03	01	1/2" X 2-1/2"	XT-1231AY7			WHITE	BLACK	.30"
7	29410035P04	01	1/2" X 2-1/2"	XT-1231AX7			WHITE	BLACK	.30"
8	29410035P05	01	1/2" X 2-1/2"	XT-1231AK1			WHITE	BLACK	.30"
20	29410035P18	01	1/2" X 2-1/2"	XT-1231AP0			WHITE	BLACK	.30"
21	29410045P19	01	1/2" X 2-1/2"	XT-1231AP1			WHITE	BLACK	.30"
18	29410045P05	01	1" X 3"	1231A	COMPRESSOR	PROXIMITORS	WHITE	BLACK	.18"

INDUSTRIAL CONTROL PANEL CHECK OUT
 SALES ORDER NO. _____
 PANEL DRAWING NO. _____
 WIRING DRAWING NO. _____
 WIRED BY _____ DATE _____
 QC CHECKED BY _____ DATE _____
 RELEASED BY _____ DATE _____

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Johnson Controls **YORK Process Systems**

100 CV ME
 P.O. BOX 997
 Waynesboro, PA 17268

REV	ECN	DESCRIPTION	DATE	DR	APP
A		ENGINEERING CHANGES	5/01/09	MER	RAO
B		CHANGES PER ENGINEERING REQUEST	5/8/09	SJC	RAO
C		CHANGES PER AS-BUILT	3/1/10	SJC	RAO

NOTICE TO PURCHASER
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PURCHASER SANDRIDGE ENERGY
 1601 N.W. EXPRESSWAY SUITE 1600
 OKLAHOMA CITY, OK 73118

YORK ORD NO 294100 PURCH ORD NO 27607-P-13-012JCI

TITLE: COMPRESSOR PROXIMITOR JUNCTION BOX

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES DO NOT SCALE

UNLESS OTHERWISE SPECIFIED TOLERANCES PER QIP 18

DEC 2PL ± 0.01
 DEC 3PL ± 0.005
 FRACT ± 1/64
 ANGLE ± 1/2

SHEET DETAIL: BILL OF MATERIAL/NAMEPLATE DETAIL

DR S.J.COX 2/9/09

CHK RA.OLIVER 2/9/09

APPD RA.OLIVER 2/9/09

FOR SANDRIDGE ENERGY
 ORDER NO. 294100
 YORK REFRIGERATION
 Moynesboro, PA

PER RA.OLIVER DATE 3/1/10

THIS DRAWING CERTIFIED


SCALE: NONE

SHEET 02 OF 04

CAGE CODE 23587 DWG NO 648D2383

YORK ORD NO 294100 PURCH ORD NO 27607-P-13-012JCI

JOB SPECIFIC NOTES:

- 1.) AREA CLASSIFICATION: OUTDOOR, CLASS I GROUP C&D, DIV 2
- 2.) REFERENCE DRAWINGS:
 - ELECTRICAL DIAGRAM LEGEND :640DD0088
 - GEAR PROXIMITOR JUNCTION BOX :648D2384
 - COMPRESSOR PROXIMITOR JUNCTION BOX :648D2383
 - PLC CONTROL PANEL LAYOUT & WIRING DIAGRAM :645D1279
 - P & ID COMPRESSOR LUBE OIL: 659D2146
 - GENERAL ARRANGEMENT, COMPRESSOR LUBE OIL MODULE: 569D2560
 - P & ID GEAR/MOTOR LUBE OIL: 659D2147
 - GENERAL ARRANGEMENT, GEAR/MOTOR LUBE OIL MODULE: 569D2561
 - P & ID REFRIGERANT OIL COOLERS: 659D2148
 - GENERAL ARRANGEMENT, COMPRESSOR DRIVE LINE: 569D2540
 - P & ID R-134A REFRIGERATION SYSTEM: 659D2149
 - PNEUMATIC/ELECTRICAL DIAGRAM: 669D0124
 - LOGIC DIAGRAM: 669D0127
- 3.) CONTROL POWER: 120V/1PH/60HZ.
HEATER POWER: 120V/1PH/60HZ.
- 4.) NO THREE PHASE WIRING SHALL ENTER OR LEAVE THE JCI/YPS CONTROL PANEL OR BE RUN IN THE SAME CONDUIT AS ANY CONTROL WIRING ENTERING OR LEAVING THE JCI/YPS CONTROL PANEL.
- 5.) NO SINGLE PHASE OVER 300 VOLTS SHALL ENTER OR LEAVE THE JCI/YPS SUPPLIED CONTROL PANEL.
- 6.) CONTROL WIRING TO BE #14 AWG STRANDED WIRE UNLESS SPECIFIED OTHERWISE. TYPE: THHN-THWN 600V
24VDC DEVICE COLOR WIRING
POSITIVE (+) - BLUE (BLU)
NEGATIVE (-) - BLACK (BLK)
ALL HEATER (POWER) WIRING TO BE #12 AWG STRANDED WIRE UNLESS SPECIFIED OTHERWISE SIZED PER LOAD REQUIREMENTS. TYPE: THHN-THWN 600V
POWER (H) - BLACK (BLK)
NEUTRAL (N) - WHITE (WHT)
ALL CTS TO BE WIRED WITH 10 AWG BLACK (BLK) TYPE: THHN-THWN 600V
- 7.) ALL NEUTRAL WIRING TO BE WHITE STRANDED WIRE UNLESS SPECIFIED OTHERWISE.
- 8.) ASSEMBLE AND WIRE UNIT IN ACCORDANCE WITH ELECTRICAL FABRICATION NOTE DRAWING: 649A0246
- 9.) A SURGE SUPPRESSOR OR MOV TO BE INSTALLED ACROSS ALL INDUCTIVE LOADS IN CONTROL CENTER.
 - ~~MOV~~ SURGE SUPPRESSOR
 - SUPPRESSOR SPECIFICATIONS:
RC NETWORK CONSISTING OF A .1 MFD CAPACITOR, 600 VDC IN SERIES WITH A 47 OHM RESISTOR.
USE ELECTROCUBE #RG2031-3-6 OR EQUAL.
 -  VARISTOR
 - METAL OXIDE VARISTOR (MOV) SPECIFICATIONS:
GE #V130LA10A OR EQUAL FOR 110 VOLTS
- 10.) SPECIAL NOTES FOR PROJECT:
 - 10.1) TERMINAL SYMBOL DESIGNATIONS:
 - PLC/MOTOR STARTER INTERFACE
 - TERMINALS IN GEAR PROXIMITOR BOX
 - TERMINALS IN COMPRESSOR PROXIMITOR BOX
 - PLC CONTROL PANEL
 - INTERMEDIATE ANALOG BOX FOR CUSTOMER CONNECTIONS
 - 10.2) STANDARD FLOOR STOCK RIGID GALVANIZED CONDUIT, MINIMUM SIZE IS 1/2"
 - 10.3) ALL DEVICES AND / OR ENCLOSURES REQUIRING SEAL FITTINGS WILL BE INSTALLED WITHIN 18 INCHES. ALL SEALS AND FITTINGS BETWEEN THE SEAL AND THE DEVICE WILL BE RATED FOR THE REQUIRED AREA CLASSIFICATION. ALL SEALS ARE TO BE CROUSE HINDS STEEL EYS SERIES, AND TO BE POURED AFTER UNIT HAS BEEN INSTALLED AND ALL WIRING HAS BEEN VERIFIED.
 - 10.4) JCI/YPS PANEL/ENCLOSURE WIRING
 WIRING BY OTHERS
 JCI/YPS SKID WIRING
 - 10.5) THE USE OF FLEX CONDUIT SHALL BE KEPT TO A MINIMUM AND SHALL BE USED ONLY ON DEVICES WHERE VIBRATION MAY OCCUR, TWO FOOT MAXIMUM LENGTHS AT DEVICE ONLY, ALL FLEX CONDUIT TO HAVE EXTERNAL GREEN 14AWG WIRE INSTALL.
 - 10.6) CABLE TRAY FOR PROXIMITOR CABLES TO BE GROUNDED TO BASE WITH #14 AWG GREEN WIRE.
 - 10.7) COMPRESSOR AND GEAR BOX ARMOR SHIELDED PROXIMITOR CABLES TO BE IN DEDICATED CABLE TRAY. SUPPORT AS NEEDED PRIOR TO ENTERING CABLE TRAY.
 - 10.8) TAG NUMBERS SHOWN ARE FOR ITEM 1000, LETTER "A" IN TAG NUMBER SHALL BE SEQUENCED "B" THRU "F" FOR ITEMS 2000 THRU 6000.
 - 10.9) ALL SKID MOUNTED 24VDC DEVICES THAT HAVE PIGTAILS WILL BE CONNECTED LOCALLY AT THE DEVICE USING A MALLEABLE IRON "GR" SERIES CONDUIT BOX WITH TERMINALS (APPLETON) WITH MALLEABLE IRON COVER AND NEOPRENE O-RINGS
 - 10.10) ALL CONDUIT IS GALVANIZED RIGID STEEL (1/2 INCH MIN), ALL CONDUIT FITTINGS TO BE CROUSE HINDS FORM 7 FERALLOY IRON WITH FERALLOY COVERS AND NEOPRENE GASKETS OR APPROVED EQUIVALENT.
 - 10.11) ALL SKID MOUNTED AC DEVICES WILL BE CONNECTED LOCALLY AT THE DEVICE USING CRIMP ON RING TYPE CONNECTORS.
 - 10.12) ALL SKID MOUNTED INSTRUMENTS TO BE CONNECTED WITH FORK CRIMP ON CONNECTORS.

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1601 N.W. EXPRESSWAY SUITE 1600	
OKLAHOMA CITY, OK 73118	
YORK ORD NO 294100	PURCH ORD NO 27607-P-13-012JCI

TITLE	COMPRESSOR PROXIMITOR JUNCTION BOX	
SHEET DETAIL	PROJECT NOTES	
SIZE	D	
CAGE CODE	23587	
DWG NO	648D2383	
REV	C	
SCALE	NONE	
SHEET	03	OF 04

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UNLESS OTHERWISE SPECIFIED TOLERANCES PER QIP 18	YORK REFRIGERATION Waynesboro, PA
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DEC 3PL ± 0.005	
FRACT ± 1/64	
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DR S.J.COX 2/9/09	
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APPD RAOLIVER 2/9/09	
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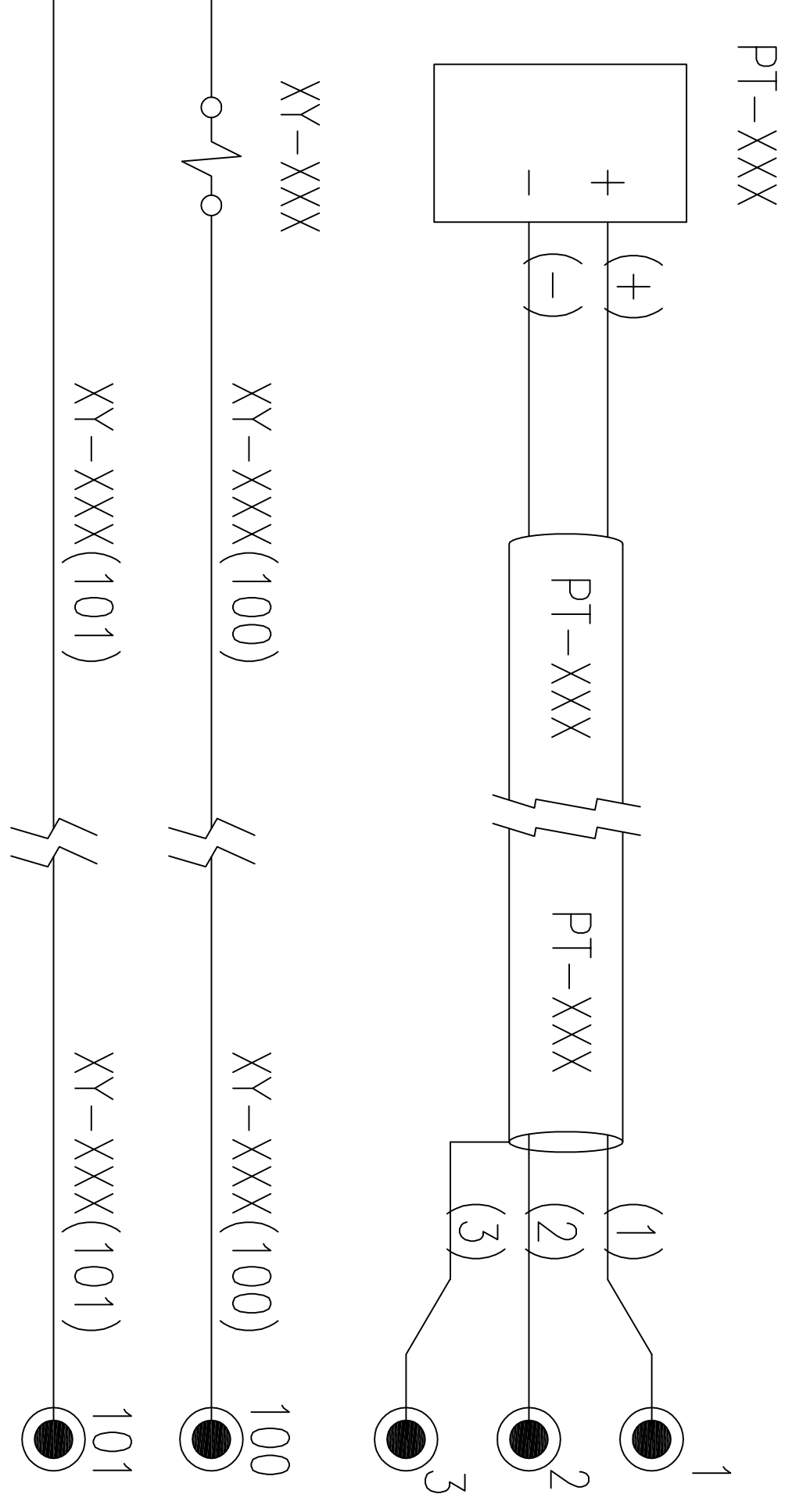
10.13) STANDARD HOT DIPPED GALVANIZED UNISTRUT WELDED TO THE BASE FOR ALL CONDUIT SUPPORTS, WITH STANDARD ELECTROPLATED CONDUIT CLAMPS. ALL CONDUIT, CONDUIT FITTINGS, AND CLAMPS (EXCEPT FLEX) TO BE PAINTED.

10.14) A CONDUIT UNION WILL BE INSTALLED AT THE DEVICE AND INSTRUMENT PRIOR TO THE CONDUIT OR FLEX CONNECTION.

10.15) FERRULES WILL BE INSTALLED ON ALL FIELD WIRING/ CABLE IN THE ENCLOSURE AND LOCAL GR BOXES ONLY.

10.16) HEAT SHRINK WIRE MARKERS TO BE INSTALLED ON ALL WIRING TO INCLUDE ORIGIN / TAG # / DESTINATION WITH THE ORIGIN NEXT TO THE TERMINAL NUMBER.

EXAMPLE:



10.17) ALL SKID CABLES TO BE 18AWG / PAIR / TRI - 300 VOLT

4-20ma

POSITIVE (+) - BLACK (BLK)

NEGATIVE (-) - WHITE (WHT)

RTD

SIGNAL - RED (RED)

RTN - BLACK (BLK)

RTN - WHITE (WHITE)

BENTLY NEVADA PROXIMITORS

VT (PWR) - RED (RED)

COMMON (COM) - BLACK (BLK)

OUT (SIG) - WHITE (WHT)

SHIELD (SHLD) MUST BE INDIVIDUALLY CONNECTED AT B/N 3500 MONITOR

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PROJECT NOTES		SIZE D	CAGE CODE 23587
PURCHASER SANDRIDGE ENERGY		DWG NO 648D2383	REV C
SCALE NONE		SHEET 04 OF 04	YORK ORD NO 294100 PURCH ORD NO 27607-P-13-012JCI

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