

GEAR PROXIMITORS

YORK TAG NO.	SERVICE DESCRIPTION
XT-1231A0	GEAR LOW SPEED EXT END RADIAL VIBRATION "X"
XT-1231A0	GEAR LOW SPEED EXT END RADIAL VIBRATION "Y"
XT-1231A1	GEAR LOW SPEED BLIND END RADIAL VIBRATION "X"
XT-1231A1	GEAR LOW SPEED BLIND END RADIAL VIBRATION "Y"
XT-1231A2	GEAR HIGH SPEED EXT END RADIAL VIBRATION "X"
XT-1231A2	GEAR HIGH SPEED EXT END RADIAL VIBRATION "Y"
XT-1231A3	GEAR HIGH SPEED EXT END RADIAL VIBRATION "X"
XT-1231A3	GEAR HIGH SPEED EXT END RADIAL VIBRATION "Y"
XT-1231AK0	GEAR LOW SPEED BLIND END KENPHASOR ACCELEROMETER

YORK TAG NO. SERVICE DESCRIPTION
 XT-1231A0 GEAR LOW SPEED SHAFT ACCELEROMETER

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
 Weynessboro, PA

PER RA.OLIVER DATE 5/8/09

GEAR PROXIMOTOR JUNCTION BOX

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

LEFT

RIGHT

COVER

UNLESS OTHERWISE SPECIFIED TOLERANCES PER QAP 18		TITLE	
DEC 2PL ± 0.01	DEC 3PL ± 0.005	FRACT ± 1/64	ANGLE ± 1/2
SHEET DETAIL		PANEL LAYOUT	
DR S.J.CDX	2/9/09	SIZE D	CASE CODE 23587
CHK R.A.OLIVER	2/9/09	DWG NO 648D2384	REV B
APP R.A.OLIVER	2/9/09	SCALE NONE	SHEET 01 OF 04

REVISIONS				
REV	ECN	DESCRIPTION	DATE	DR
A		ENGINEERING CHANGES	5/01/09	MER RAO
B		CHANGES PER ENGINEERING REQUEST	5/8/09	SJC RAO

PURCHASER SANDRIDGE ENERGY 1601 N.W. EXPRESSWAY SUITE 1600 OKLAHOMA CITY, OK 73118	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.
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YORK ORD NO 294100	PURCH ORD NO 27607-P-13-012JCI
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100 CV AVE
P.O. BOX 997
Weynessboro, PA 17268

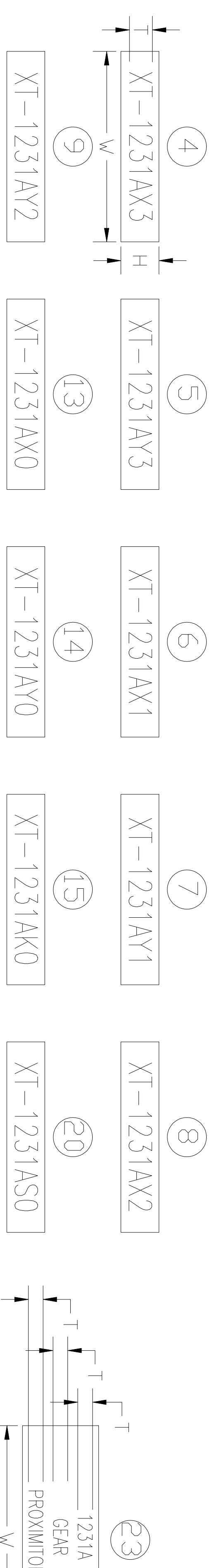
BILL OF MATERIAL

ITEM	QTY	SAP NUMBER	MAPICS NUMBER	VENDOR PART NUMBER	DESCRIPTION	REVISION	REVISION CHANGES
1	1	467259	29410045P04	CSD20168SS6	ENCLOSURE 20" x 16" x 8" 316 SS	-	
2	1	493510	33300001878	0514500000	DINRAIL	-	
3	9	493510	913A0115H01	330180-91-05	3300 XL PROXIMITOR	-	
4	1		29410035P07	29410035P07	NAMEPLATE 1/2" x 2-1/2" (XT-1231AX3)	-	
5	1		29410035P08	29410035P08	NAMEPLATE 1/2" x 2-1/2" (XT-1231AY3)	-	
6	1		29410035P09	29410035P09	NAMEPLATE 1/2" x 2-1/2" (XT-1231AX1)	-	
7	1		29410035P10	29410035P10	NAMEPLATE 1/2" x 2-1/2" (XT-1231AY1)	-	
8	1		29410035P11	29410035P11	NAMEPLATE 1/2" x 2-1/2" (XT-1231AX2)	-	
9	1		29410035P12	29410035P12	NAMEPLATE 1/2" x 2-1/2" (XT-1231AY2)	-	
10	1	455051	11100281022	L70	GROUNDING LUG	-	
11	2	455039	11100280956	ECD15-TB	DRAIN / BREATHER	-	
12	2	493363	911A0333H01	H050-TB	CONDUIT HUB	B	DELETED
13	1		29410035P13	29410035P13	NAMEPLATE 1/2" x 2-1/2" (XT-1231AX0)	-	
14	1		29410035P14	29410035P14	NAMEPLATE 1/2" x 2-1/2" (XT-1231AY0)	-	
15	1		29410035P15	29410035P15	NAMEPLATE 1/2" x 2-1/2" (XT-1231AK0)	-	
16	3	467022	33300001187	1061200000	END BRACKET - WEW 35/2	-	
17	1	484201	639A0245H04	CP-2016	SUB-PLATE CARBON STEEL	-	
18	4	467018	33300001183	1020000000	STANDARD DESIGN TERMINAL BLOCK - WDU 2.5 .200	-	
19	8	467114	33300001456	164074	TERMINAL MARKER	-	
20	1		29410035P16	29410035P16	NAMEPLATE 1/2" x 2-1/2" (XT-1231AS0)	-	
21	1	484446	640A0045G01	640A0045G01	LABEL EARTH GROUND SYMBOL	-	
22	1	484448	640A0048G01	640A0048G01	LABEL CHECK OUT	-	
23	1		29410045P06	29410045P06	NAMEPLATE 1" x 3" (1231A)	-	
24	2	455410	11100740694	11100740694	SCREW PHSS 6-32 X 3/8 SS	-	
25	2	492863	911A0088H01	911A0088H01	HUB CONNECTOR, 1/2" NPT	B	ADDED

TOTAL OF (6) JUNCTION BOXES.
 REQUIRED-(1) REQUISITION 29410035P07, 29410035P08,
 29410035P09, 29410035P10, 29410035P11, 29410035P12,
 29410035P13, 29410035P14, 29410035P15, 29410035P16,
 29410045P06 & 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
 TAG NUMBERS SHOWN ARE FOR ITEM 1000, LETTER "A" IN TAG NUMBER
 SHALL BE SEQUENCED "B" THRU "F" FOR ITEMS 2000 THRU 6000.

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



ITEM	PART NUMBER	PAGE	SIZE (H" X W")	LINE 1	LINE 2	LINE 3	BACKGROUND	LETTERING	LETTERING HEIGHT (T")
4	29410035P07	01	1/2" X 2-1/2"	XT-1231AX3			WHITE	BLACK	.30"
5	29410035P08	01	1/2" X 2-1/2"	XT-1231AY3			WHITE	BLACK	.30"
6	29410035P09	01	1/2" X 2-1/2"	XT-1231AX1			WHITE	BLACK	.30"
7	29410035P10	01	1/2" X 2-1/2"	XT-1231AY1			WHITE	BLACK	.30"
8	29410035P11	01	1/2" X 2-1/2"	XT-1231AX2			WHITE	BLACK	.30"
9	29410035P12	01	1/2" X 2-1/2"	XT-1231AY2			WHITE	BLACK	.30"
13	29410035P13	01	1/2" X 2-1/2"	XT-1231AX0			WHITE	BLACK	.30"
14	29410035P14	01	1/2" X 2-1/2"	XT-1231AY0			WHITE	BLACK	.30"
15	29410035P15	01	1/2" X 2-1/2"	XT-1231AK0			WHITE	BLACK	.30"
20	29410035P16	01	1/2" X 2-1/2"	XT-1231AS0	GEAR	PROXIMITORS	WHITE	BLACK	.30"
23	29410045P06	01	1" X 3"	1231A	GEAR	PROXIMITORS	WHITE	BLACK	.18"

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

THIS DRAWING CERTIFIED
 FOR SANDRIDGE ENERGY
 ORDER NO. 294100
 YORK REFRIGERATION
 W/yrssboro, PA
 PER RA.OLIVER DATE 5/8/09


UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES DO NOT SCALE		TITLE GEAR PROXIMITOR JUNCTION BOX		REV ECN DESCRIPTION DATE DR APP A ENGINEERING CHANGES 5/01/09 MER RAO B CHANGES PER ENGINEERING REQUEST 5/8/09 SIC RAO		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 ASME Y14.5 DEC 2PL ± 0.01 DEC 3PL ± 0.005 FRACT ± 1/64 ANGLE ± 1/2		SHEET DETAIL BILL OF MATERIAL/NAMEPLATE DETAIL		PURCHASER SANDRIDGE ENERGY 1601 N.W. EXPRESSWAY SUITE 1600 OKLAHOMA CITY, OK 73118		© COPYRIGHT 2/9/09 JCI/YORK, ALL RIGHTS RESERVED	
DR S.J.COX 2/9/09		SCALE NONE		NOTE 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.		Johnson Controls YORK Process Systems 100 CV AVE P.O. BOX 997 Wynnesboro, PA 17268	
CHK RA.OLIVER 2/9/09		CASE CODE 23587		REV B		YORK ORD NO 294100 PURCH ORD NO 27607-P-13-012JCI	
APP RA.OLIVER 2/9/09		DWC NO 648D2384		SHEET 02 OF 04			

JOB SPECIFIC NOTES:

- 1.) AREA CLASSIFICATION: OUTDOOR, CLASS I GROUP C&D, DIV 2
- 2.) REFERENCE DRAWINGS:
 - ELECTRICAL DIAGRAM LEGEND :640D00088
 - 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/CLINE: 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 CT'S 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.
 -  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 GROUSE 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 GROUSE HINDS FORM 7 FERALOY IRON WITH FERALOY 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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REV	ECN	DESCRIPTION	DATE	DR	APP
A		ENGINEERING CHANGES	5/01/09	MER	RAO
B		CHANGES PER ENGINEERING REQUEST	5/8/09	SJC	RAO

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 GEAR PROXIMITOR JUNCTION BOX		SHEET DETAIL PROJECT NOTES	
SIZE D	CAGE CODE 23587	DWG NO 648D2384	REV B
SCALE NONE	SHEET 03	OF 04	

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES DO NOT SCALE

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ORDER NO. 294100

YORK REFRIGERATION
Wynessboro, PA

PER RAO/INFR DATE 5/8/09

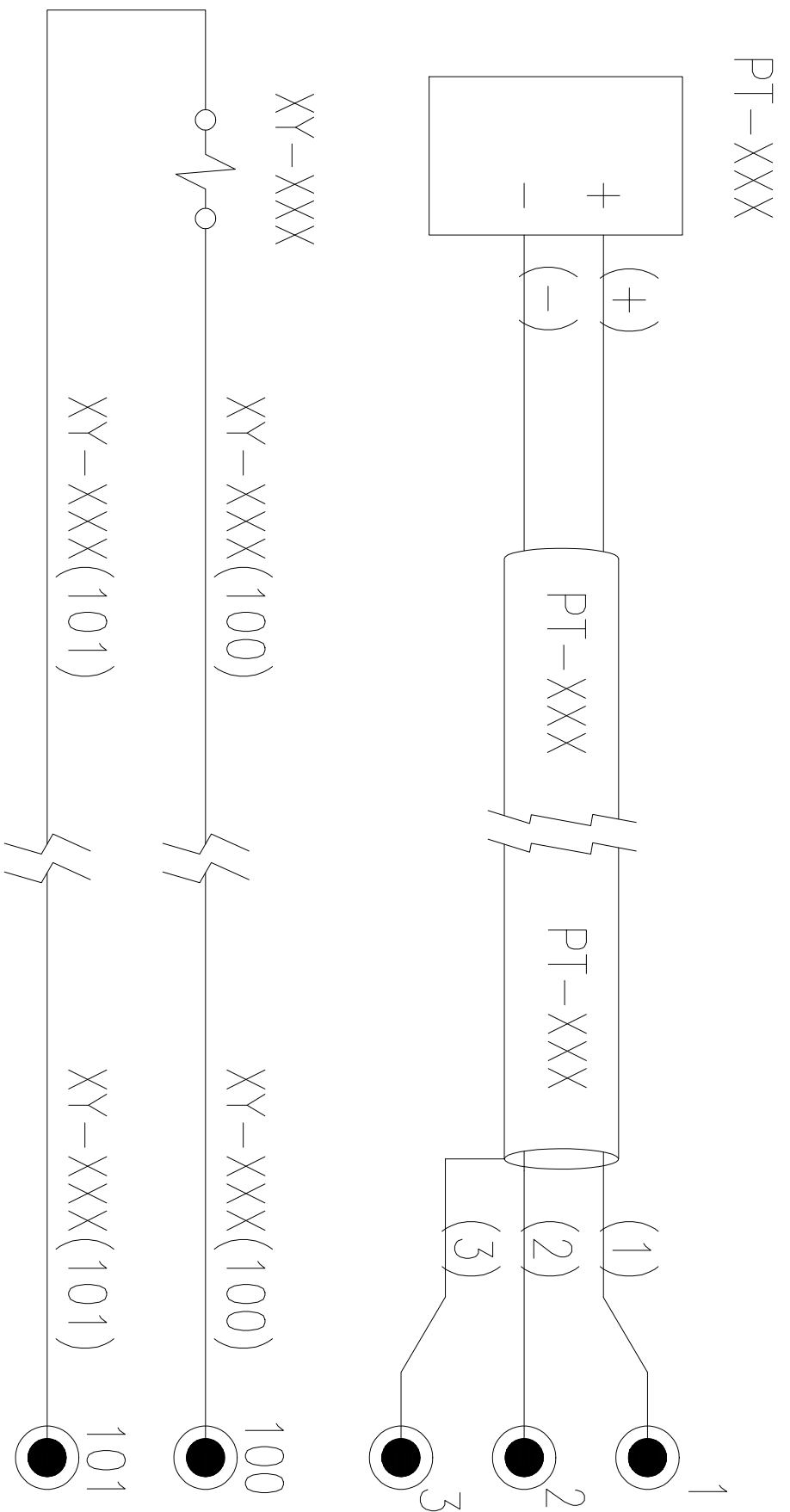
10.13) STANDARD HOT DIPPED GALVANIZED UNISTRUT WELDED TO THE BASE FOR ALL CONDUIT SUPPORTS, WITH STANDARD ELECTROPLATED CONDUIT CLAMPS. ALL CONDUIT, CONDUIT FITTINGS, AND CLAMPS (EXCEPT FLEX) TO BE PAINTED.

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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B		CHANGES PER ENGINEERING REQUEST	5/8/09	SJC	RAO

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 GEAR PROXIMITOR JUNCTION BOX		SHEET DETAIL	
PROJECT NOTES		SIZE	CAGE CODE
		D	23587
		DWG NO	648D2384
		REV	B
		SHEET	04 OF 04

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES DO NOT SCALE			
UNLESS OTHERWISE SPECIFIED TOLERANCES PER QAP 18			
DEC 2PL	DEC 3PL	FRACT	ANGLE
± 0.01	± 0.005	± 1/64	± 1/2
DR	S.J.COX	DATE	2/9/09
CHK	R.A.OLIVER	DATE	2/9/09
APPD	R.A.OLIVER	DATE	2/9/09
CODE			

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