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Document:	Submittal # 3	Type:	Manuals
Project #:	50951	Project Name:	ZAP Grand Junction
Submitted to:	Kyle Witwer	Submitted via:	E-mail
Submitted by:	Blake Barnett	Date:	June 10, 2021

Section	Drawing Number	# of Sheets	Rev	Description	Status
				<u>SITE</u>	
00.1	A00-01-50136	1	B	ANGI Site PID	Manuals
02.2	A80-50-50951	5	C	Conduit/Customer Interconnect Details	Manuals
				<u>COMPRESSOR</u>	
07.1	GAD-NG-075-E-S-B	2	B	Compressor General Arrangement	Manuals
07.2	A16-20-50951	2	B	Compressor PID	Manuals
07.3	A05-30-50951	1	-	Compressor Set Points	Manuals
07.4	Ariel	1	-	Performance Run	Manuals
07.5	A80-10-50951	10	B	Compressor 1 Control Panel Schematic	Manuals
				<u>ANCILLARY EQUIPMENT</u>	
08.2	ANGI SINGLE 75HP	16	-	Motor Starter Panel General Arrangement	Manuals
				<u>Refueling</u>	
29.1	A30-20-019-CD	1	B	Storage General Arrangement	Manuals

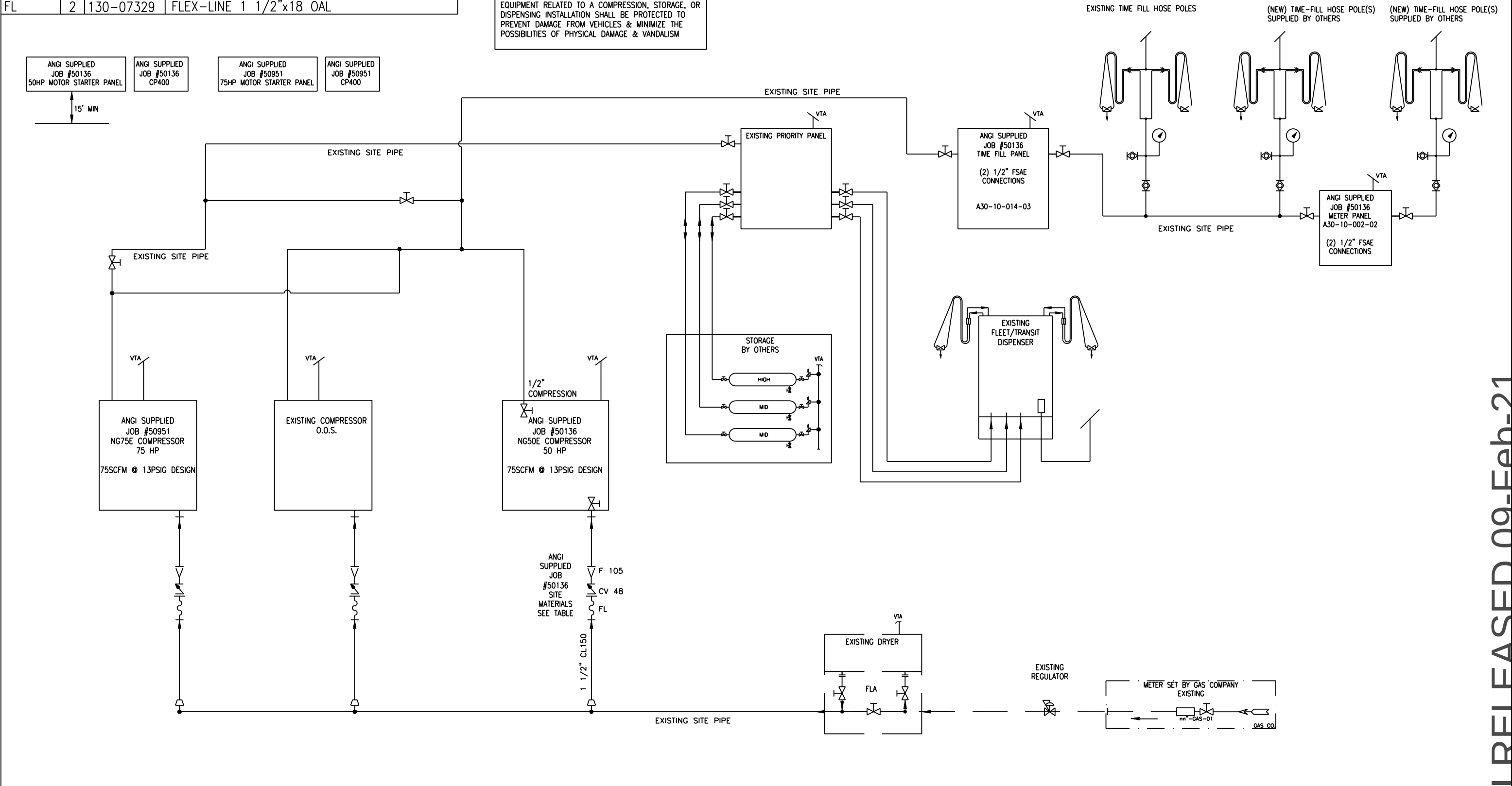
☒	Manual Drawings for Information Only	
☐	Submittal Drawings for Information Only	
☐	Review Required - Check One Box Below - Sign cover page and return to ANGI	
☐	Approved as Submitted:	Date: _____
☐	Approved with Markups:	Name: _____
☐	Not Approved - Reasons:	Signature: _____

Return to ANGI Project Manager by: _____ (Delivery may be delayed if not returned by scheduled date)

DESIGNATOR	QTY	PART NUMBER	DESCRIPTION
F 105	2	770-07392	STRAINER-BASKET 1 1/2 CL150
CV 48	2	336-07272	VALVE-CHECK 1 1/2 WAFER CL150
FL	2	130-07329	FLEX-LINE 1 1/2"x18 OAL

ALL VENT STACKS MUST BE 10'-0" ABOVE GRADE

EQUIPMENT RELATED TO A COMPRESSION, STORAGE, OR DISPENSING INSTALLATION SHALL BE PROTECTED TO PREVENT DAMAGE FROM VEHICLES & MINIMIZE THE POSSIBILITIES OF PHYSICAL DAMAGE & VANDALISM

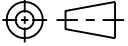


REV	DATE/BY	DESCRIPTION	REV	DATE/BY	DESCRIPTION
B	01/22/2021 HREYN	ADDED EQUIPMENT FROM JOB #50951 AXN1018073			
A	1-19-15 JLH	CUSTOMER PP / TF PANEL CHANGE			



ANGI ENERGY SYSTEMS
305 W DELAVAN DR
JANESVILLE, WI 53546
PH: 608-563-2800
www.angienergy.com

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UNLESS OTHERWISE SPECIFIED				TITLE			
 BREAK SHARP EDGES .005-.015 ALL DIMENSIONS IN INCHES				SITE PID			
FRACTIONAL ± 1/8 TWO PLACE DECIMAL ± .010 THREE PLACE DECIMAL ± .005 ANGLES ± 1°				CUSTOMER WARD ENERGY - GRAND JUNCTION			
DRN JLH				DATE 1-19-15		SCALE NTS	
CHK				DATE		DRAWING NO. A00-01-50136	
				SHT 1		TOT 1	
						REV. B	

AUTOCAD WINDCHILL

ANGI RELEASED 09-Feb-21

DRAWING INDEX	
SHEET	DESCRIPTION
1	INDEX AND GENERAL INFORMATION
2	SITE CONDUIT LAYOUT
3	COMPRESSOR SKID CONTROL PANEL INTERCONNECTIONS
4	COMPRESSOR SKID JUNCTION BOX / MAIN MOTOR INTERCONNECTIONS / CsCAN
5	SITE ESD VALVE (OPTIONAL), CP-400 COMMUNICATION PANEL 120VAC POWER



NEW EQUIPMENT EQUIPMENT LEGEND	
CODE	PANEL DESCRIPTION
P02	SITE ESD VALVE (SOLENOID)
P21	NG75 SIMPLEX COMPRESSOR SKID
J21	NG75 SIMPLEX COMPRESSOR SKID JUNCTION BOX
M1	NG75 SIMPLEX COMPRESSOR MAIN MOTOR
P52	MOTOR STARTER PANEL, 200HP

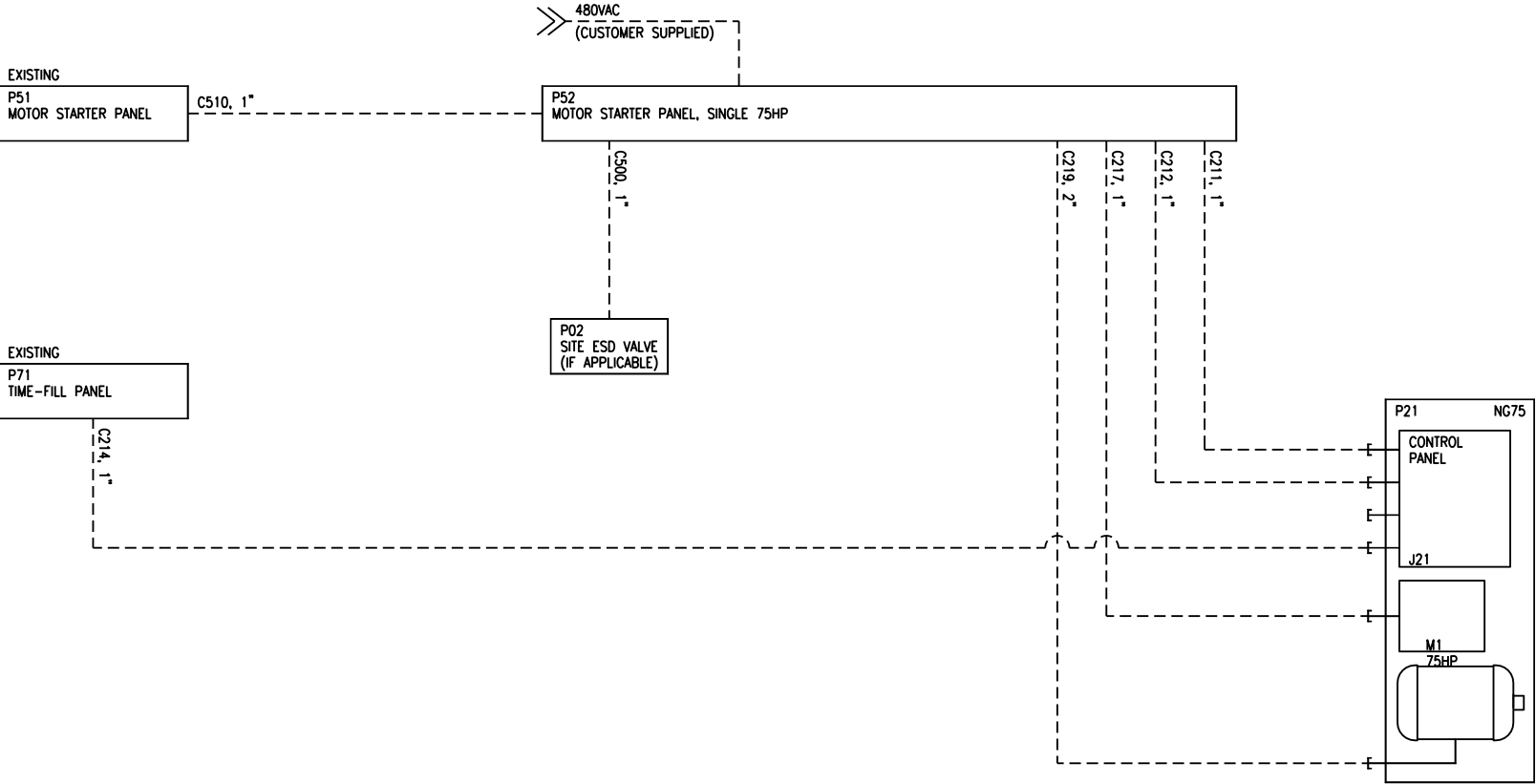
EXISTING EQUIPMENT EQUIPMENT LEGEND	
CODE	PANEL DESCRIPTION
P51	MOTOR STARTER PANEL
P71	TIME-FILL PANEL

						ALL ELECTRICAL CONNECTIONS MUST BE COMPLETED OR SUPERVISED BY QUALIFIED PERSONNEL, AND MEET ALL LOCAL AND APPLICABLE CODES. REFER TO NEC FOR MORE INFORMATION.	 ANGI ENERGY SYSTEMS 305 W DELAVAN DR JANESVILLE, WI 53546 PH: 608-563-2800 www.angienergy.com CONTROLLED DRAWING THIS DRAWING COMPLIES WITH AGENCY LISTINGS. DO NOT CHANGE WITHOUT APPROVAL FROM ENGINEERING DEPARTMENT.	TITLE SITE INTERCONNECTION INDEX AND GENERAL INFORMATION					
C	4/7/21 MWS	REMOVED CP-400 ACN1018624						CUSTOMERZAP Engineering – Grand Junction, CO		PROJECT NO. 50951			
B	3/25/21 MWS	ADDED CsCAN NETWORK CONNECTION ACN1018520				THIS DRAWING AND INFORMATION THEREIN IS PROPRIETARY INFORMATION, AND IS THE SOLE PROPERTY OF ANGI ENERGY SYSTEMS LLC. IT MAY NOT BE COPIED, REPRODUCED OR PROVIDED TO OTHERS WITHOUT EXPRESS WRITTEN AUTHORIZATION BY ANGI ENERGY SYSTEMS LLC. ALL COPIES AND REPRODUCTIONS ARE THE PROPERTY OF ANGI ENERGY AND SUBJECT TO RETURN ON DEMAND.		DRNMWS	DATE 2/3/21	SCALE N/A	DRAWING NO. A80-50-50951	REV. C	
A	2/4/21 MWS	INITIAL RELEASE ACN1018056						CHK	DATE	SHT 1 TOT 5			
REV	DATE/BY	DESCRIPTION	REV	DATE/BY	DESCRIPTION								

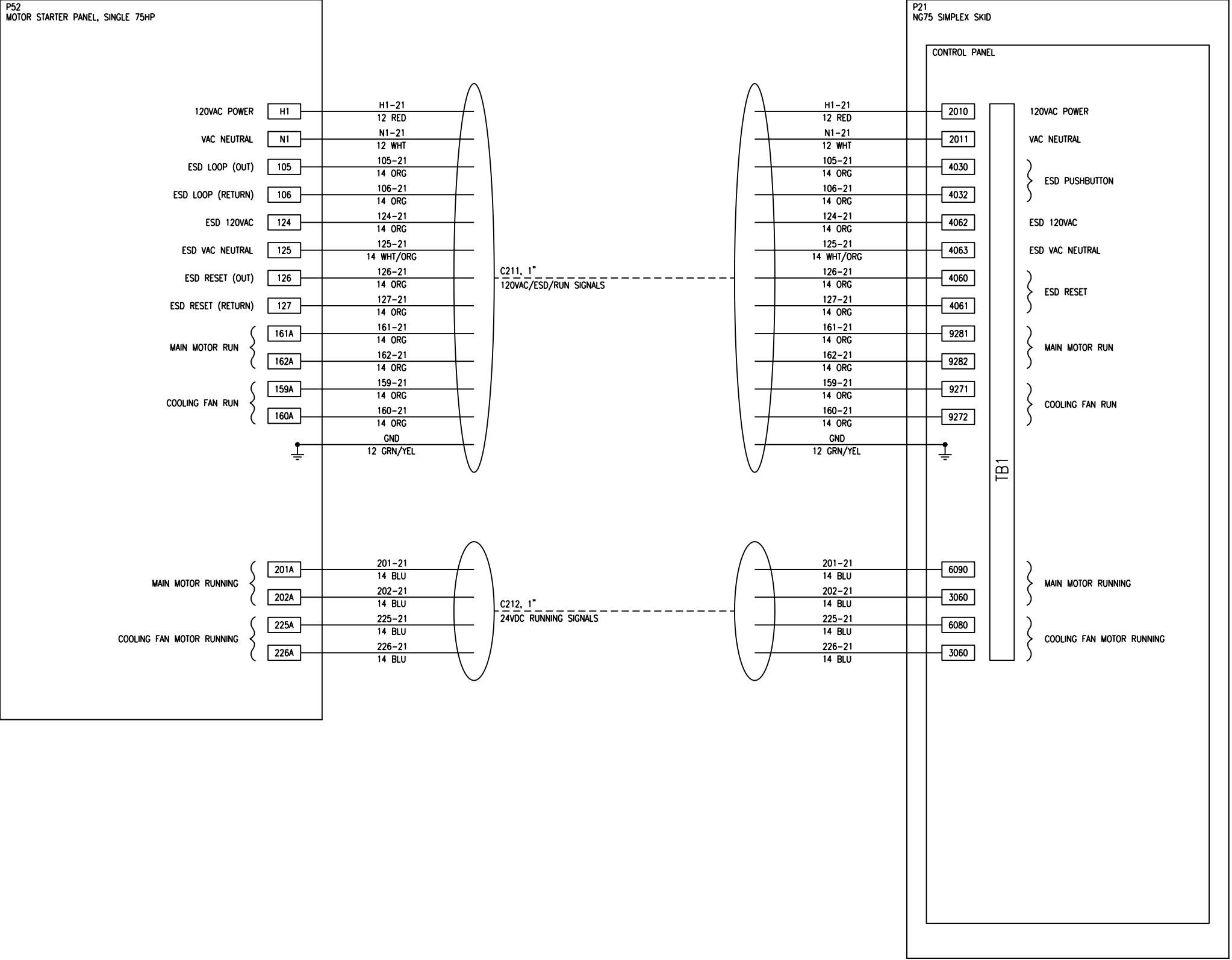
AUTOCAD WINDCHILL

ANGI RELEASED 12-Apr-21

NOTE: ALL WIRE AND CONDUIT RUNS ARE SIZED FOR DISTANCES UP TO 100 FT. CUSTOMER MUST RE-SIZE WIRE AND CONDUIT TO ACCOMMODATE GREATER DISTANCES. RECOMMENDED USE OF STRANDED WIRE.

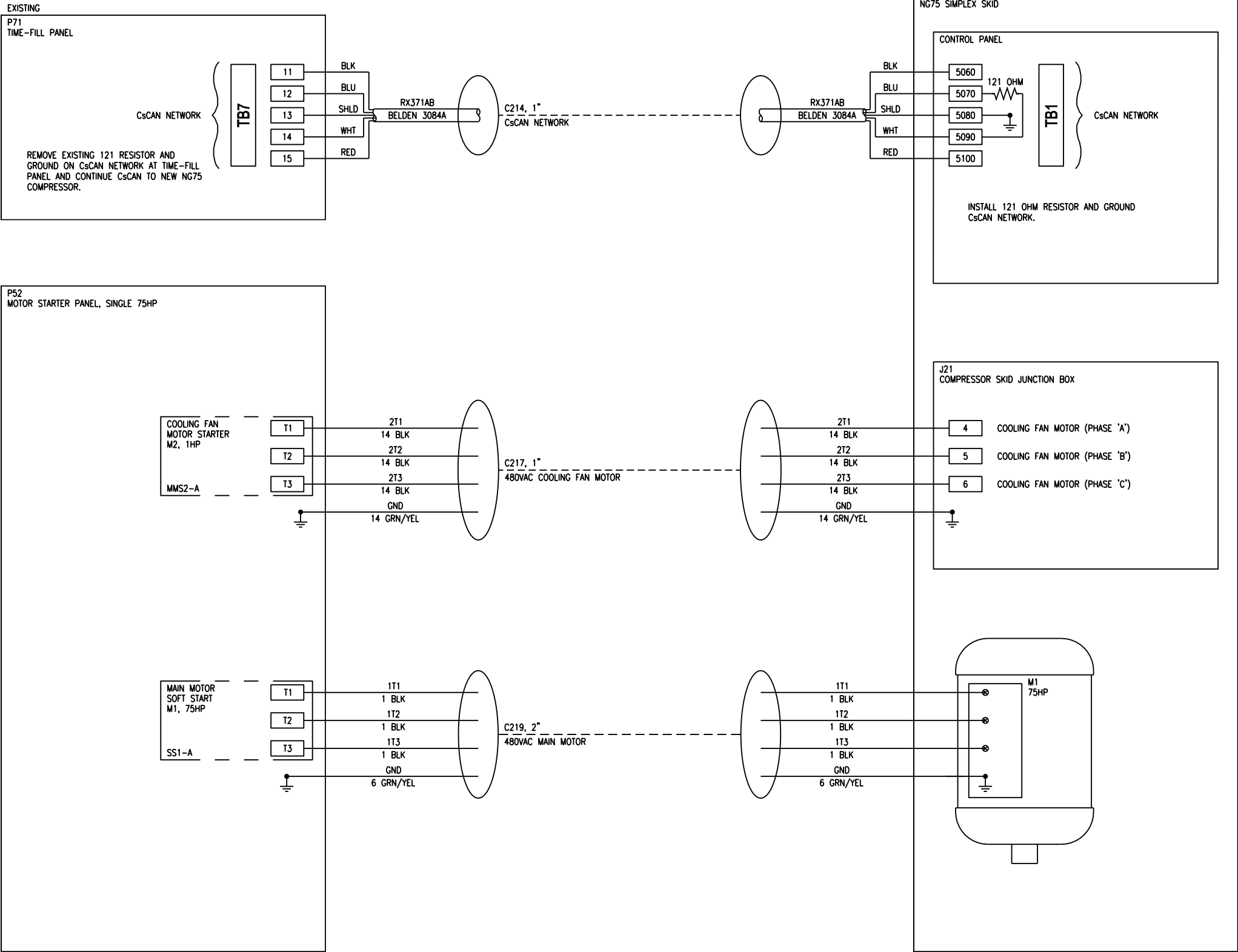


						ALL ELECTRICAL CONNECTIONS MUST BE COMPLETED OR SUPERVISED BY QUALIFIED PERSONNEL, AND MEET ALL LOCAL AND APPLICABLE CODES. REFER TO NEC FOR MORE INFORMATION.	ANGI ANGI ENERGY SYSTEMS 305 W DELAVAN DR JANESVILLE, WI 53546 PH: 608-563-2800 www.angienergy.com CONTROLLED DRAWING THIS DRAWING COMPLIES WITH AGENCY LISTINGS. DO NOT CHANGE WITHOUT APPROVAL FROM ENGINEERING DEPARTMENT.	TITLE SITE INTERCONNECTION SITE CONDUIT LAYOUT				
C	4/7/21 MWS	REMOVED CP-400 ACN1018624				THIS DRAWING AND INFORMATION THEREIN IS PROPRIETARY INFORMATION, AND IS THE SOLE PROPERTY OF ANGI ENERGY SYSTEMS LLC. IT MAY NOT BE COPIED, REPRODUCED OR PROVIDED TO OTHERS WITHOUT EXPRESS WRITTEN AUTHORIZATION BY ANGI ENERGY SYSTEMS LLC. ALL COPIES AND REPRODUCTIONS ARE THE PROPERTY OF ANGI ENERGY AND SUBJECT TO RETURN ON DEMAND.		CUSTOMERZAP Engineering – Grand Junction, CO		PROJECT NO. 50951		
B	3/25/21 MWS	ADDED CsCAN NETWORK CONNECTION ACN1018520						DRNMWS	DATE2/3/21	SCALEN/A	DRAWING NO. A80-50-50951	REV. C
A	2/4/21 MWS	INITIAL RELEASE ACN1018056						CHK	DATE	SHT 2TOT 5		
REV	DATE/BY	DESCRIPTION	REV	DATE/BY	DESCRIPTION							



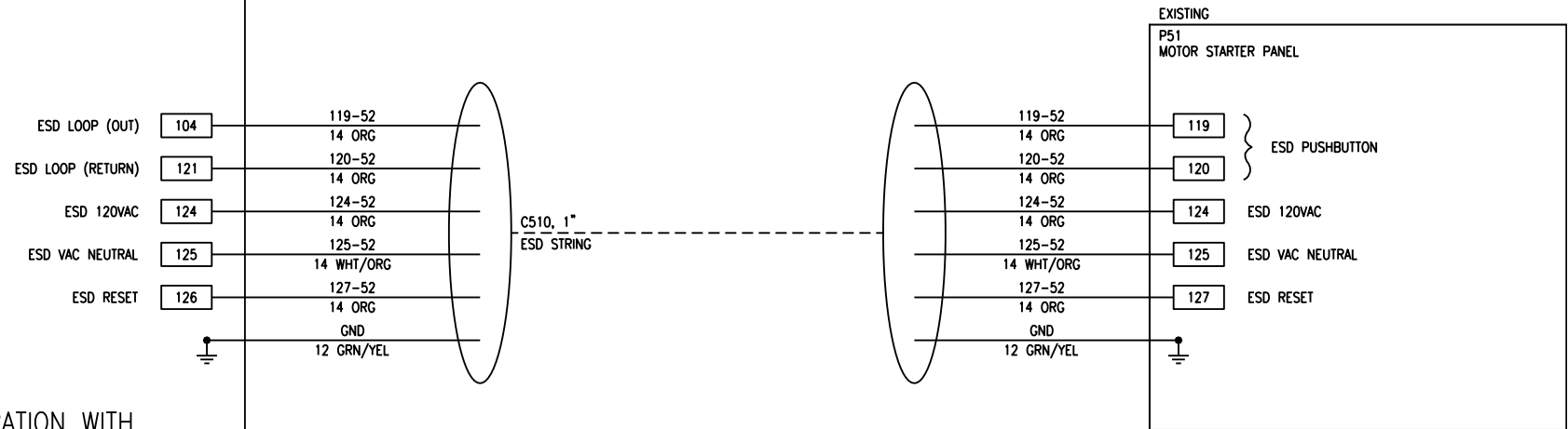
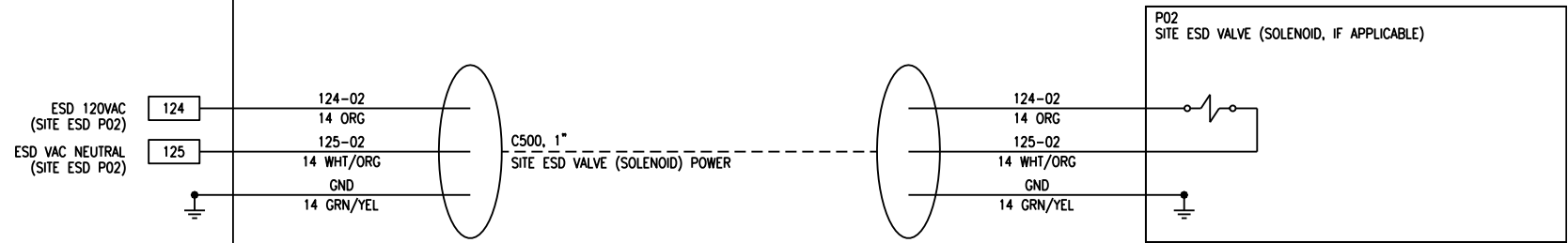
						ALL ELECTRICAL CONNECTIONS MUST BE COMPLETED OR SUPERVISED BY QUALIFIED PERSONNEL, AND MEET ALL LOCAL AND APPLICABLE CODES. REFER TO NEC FOR MORE INFORMATION. THIS DRAWING AND INFORMATION THEREIN IS PROPRIETARY INFORMATION, AND IS THE SOLE PROPERTY OF ANGI ENERGY SYSTEMS LLC. IT MAY NOT BE COPIED, REPRODUCED OR PROVIDED TO OTHERS WITHOUT EXPRESS WRITTEN AUTHORIZATION BY ANGI ENERGY SYSTEMS LLC. ALL COPIES AND REPRODUCTIONS ARE THE PROPERTY OF ANGI ENERGY AND SUBJECT TO RETURN ON DEMAND.	 ANGI ENERGY SYSTEMS 305 W DELAVAN DR JANESVILLE, WI 53546 PH: 608-563-2800 www.angienergy.com CONTROLLED DRAWING THIS DRAWING COMPLIES WITH AGENCY LISTINGS. DO NOT CHANGE WITHOUT APPROVAL FROM ENGINEERING DEPARTMENT.	TITLE SITE INTERCONNECTION COMPRESSOR SKID CONTROL PANEL INTERCONNECTIONS					
C	4/7/21 MWS	REMOVED CP-400 ACN1018624						CUSTOMERZAP Engineering – Grand Junction, CO		PROJECT NO.50951			
B	3/25/21 MWS	ADDED CsCAN NETWORK CONNECTION ACN1018520						DRNMWS	DATE2/3/21	SCALEN/A	DRAWING NO.	REV.C	
A	2/4/21 MWS	INITIAL RELEASE ACN1018056						CHK	DATE	SHT3	TOT5		A80-50-50951
REV	DATE/BY	DESCRIPTION	REV	DATE/BY	DESCRIPTION								

AUTOCAD WINDCHILL



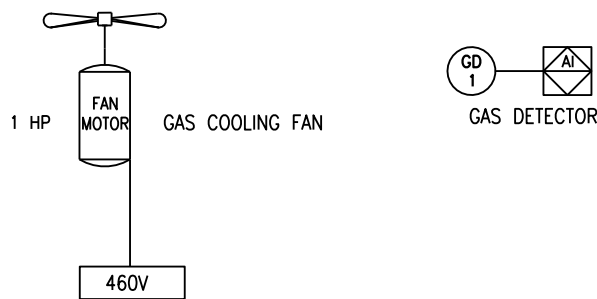
						ALL ELECTRICAL CONNECTIONS MUST BE COMPLETED OR SUPERVISED BY QUALIFIED PERSONNEL, AND MEET ALL LOCAL AND APPLICABLE CODES. REFER TO NEC FOR MORE INFORMATION.	 ANGI ENERGY SYSTEMS 305 W DELAVAN DR JANESVILLE, WI 53546 PH: 608-563-2800 www.angienenergy.com CONTROLLED DRAWING THIS DRAWING COMPLIES WITH AGENCY LISTINGS. DO NOT CHANGE WITHOUT APPROVAL FROM ENGINEERING DEPARTMENT.	TITLE SITE INTERCONNECTION COMPRESSOR SKID JUNCTION BOX / MAIN MOTOR INTERCONNECTIONS / CsCAN						
C	4/7/21 MWS	REMOVED CP-400 ACN1018624				THIS DRAWING AND INFORMATION THEREIN IS PROPRIETARY INFORMATION, AND IS THE SOLE PROPERTY OF ANGI ENERGY SYSTEMS LLC. IT MAY NOT BE COPIED, REPRODUCED OR PROVIDED TO OTHERS WITHOUT EXPRESS WRITTEN AUTHORIZATION BY ANGI ENERGY SYSTEMS LLC. ALL COPIES AND REPRODUCTIONS ARE THE PROPERTY OF ANGI ENERGY AND SUBJECT TO RETURN ON DEMAND.		CUSTOMERZAP Engineering – Grand Junction, CO		PROJECT NO. 50951				
B	3/25/21 MWS	ADDED CsCAN NETWORK CONNECTION ACN1018520						DRN MWS	DATE 2/3/21	SCALE N/A		DRAWING NO.	REV.	
A	2/4/21 MWS	INITIAL RELEASE ACN1018056						A80-50-50951		C				
REV	DATE/BY	DESCRIPTION	REV	DATE/BY	DESCRIPTION			CHK	DATE	SHT 4	TOT 5	A80-50-50951		C

P52
MOTOR STARTER PANEL, SINGLE 75HP



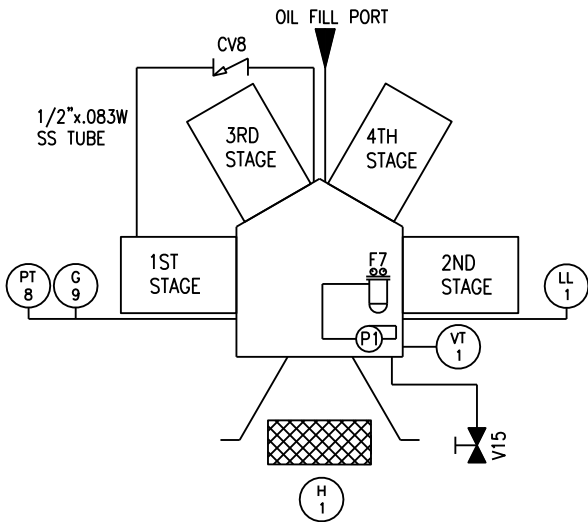
FOR ESD INTEGRATION WITH
EXISTING MSP, REMOVE JUMPERS
'J18', 'J1', 'J19', 'J20' AND ADD
JUMPER WIRE BETWEEN
TERMINALS 127 AND 124.

						ALL ELECTRICAL CONNECTIONS MUST BE COMPLETED OR SUPERVISED BY QUALIFIED PERSONNEL, AND MEET ALL LOCAL AND APPLICABLE CODES. REFER TO NEC FOR MORE INFORMATION.	 ANGI ENERGY SYSTEMS 305 W DELAVAN DR JANESVILLE, WI 53546 PH: 608-563-2800 www.angienergy.com	TITLE SITE INTERCONNECTION SITE ESD VALVE (OPTIONAL), CP-400 COMMUNICATION PANEL 120VAC POWER						
C	4/7/21 MWS	REMOVED CP-400 ACN1018624						THIS DRAWING AND INFORMATION THEREIN IS PROPRIETARY INFORMATION, AND IS THE SOLE PROPERTY OF ANGI ENERGY SYSTEMS LLC. IT MAY NOT BE COPIED, REPRODUCED OR PROVIDED TO OTHERS WITHOUT EXPRESS WRITTEN AUTHORIZATION BY ANGI ENERGY SYSTEMS LLC. ALL COPIES AND REPRODUCTIONS ARE THE PROPERTY OF ANGI ENERGY AND SUBJECT TO RETURN ON DEMAND.	CUSTOMERZAP Engineering – Grand Junction, CO			PROJECT NO. 50951		REV. C
B	3/25/21 MWS	ADDED C\$CAN NETWORK CONNECTION ACN1018520						CONTROLLED DRAWING THIS DRAWING COMPLIES WITH AGENCY LISTINGS. DO NOT CHANGE WITHOUT APPROVAL FROM ENGINEERING DEPARTMENT.	DRN	MWS	DATE 2/3/21	SCALE N/A	DRAWING NO.	
A	2/4/21 MWS	INITIAL RELEASE ACN1018056							CHK	DATE	SHT 5	TOT 5	A80-50-50951	
REV	DATE/BY	DESCRIPTION	REV	DATE/BY	DESCRIPTION								AUTOCAD WINDCHILL	



LEGEND			
C	= OIL COOLER	PX	= PROXIMITY SWITCH
CV	= CHECK VALVE	PT	= PRESSURE TRANSDUCER
F	= FILTER	PV	= PRESSURE VESSEL
G	= PRESSURE GAUGE	SV	= SOLENOID VALVE
LS	= LEVEL SWITCH	T	= THERMOMETER
N.C.	= NORMALLY CLOSED	TS	= TEMPERATURE SWITCH
N.O.	= NORMALLY OPEN	TT	= TEMPERATURE TRANSMITTER
OPL	= ORIFICE PLATE	TV	= THERMOSTATIC VALVE
P	= OIL PUMP	V	= MANUAL/ACTUATED VALVE
PR	= PRESSURE REGULATOR	VS	= VIBRATION SWITCH
PRV	= PRESSURE RELIEF VALVE	VTA	= VENT TO ATMOSPHERE

MOTOR
75HP
460V



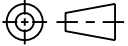
DESIGNATOR	PART NUMBER	TOTAL QTY	DESCRIPTION
VT1	400-09151	1	TRANSMITTER-VIBRATION PVTVM 0-2IPS (VT7)
V15		1	VALVE-BALL BECKER SUPPLIED
PT8	410-07292	1	TRANSDUCER-PRESS AST 0-100# IS/UL (PT54)
P1		1	PUMP-OIL BECKER SUPPLIED
LL1		1	LL- BECKER SUPPLIED
H1	707-07332	1	HEATER-CHROMALOX 225W 120V CL1DIV1/2 (H22)
GD1	400-08190	1	DETECTOR-METHANE IR HONEYWELL XCD (GD3)
G9		1	GAUGE-PRESSURE 100PSI BECKER SUPPLIED
F7		1	FILTER-OIL BECKER SUPPLIED
CV8		1	VALVE-CHECK, BECKER SUPPLIED



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UNLESS OTHERWISE SPECIFIED



BREAK SHARP EDGES .005-.015
ALL DIMENSIONS IN INCHES

FRACTIONAL ± 1/8
TWO PLACE DECIMAL ±.010
THREE PLACE DECIMAL ±.005
ANGLES ±1°

TITLE					
BECKER 4 STAGE COMPRESSOR PIPING AND INSTRUMENTATION LUBRICATION CIRCUIT					
CUSTOMER			PROJECT NO.		
ZAP ENGINEERING			50951		
DRN	NPF	DATE	2/1/2021	SCALE	NA
CHK		DATE		SHT	2
DRAWING NO.				REV.	B
A16-20-50951					

AUTOCAD WINDCHILL

Drawing No.		50951		Rev.		-						
ANGI Model No.		SPECIAL						Stage 1	Stage 2	Stage 3	Stage 4	Stage 5
PLC		Horner		Inlet Pressure based on VVCP settings below:				Spacers	Spacers	Spacers	Spacers	Spacers
		VVCP %		VVCP Turns				0	0	0	0	0
HORNER PLC I/O	P&ID No.	Label	Check if Used	Transducer Range/Units	Signal	Minimum Normal Operation	Maximum Normal Operation	Relief Valve Setting	Low Shutdown	Low Warning	High Warning	High Shutdown
	PT2	Inlet Pressure	☐ I/O Active	psig	4-20 mA	5 psig	13 psig	25 psig	4 psig	5 psig	14 psig	14 psig
	PT7	Final Pressure	☐ I/O Active	0 - 6000 psig	4-20 mA		4350 psig	5000 psig	-100 psig	-50 psig	4586 psig	4680 psig
	PT8	Compressor Oil	☐ I/O Active	0 - 100 psig	4-20 mA	65 psig	72 psig		45 psig	50 psig	80 psig	90 psig
	PT1	Receiver Tank Pressure	☐ I/O Active	0 - 300 psig	4-20 mA			300 psig	-100 psig	-50 psig	265 psig	270 psig
	PT3	Stage 1 Pressure	☐ I/O Active		4-20 mA	104 psig	113 psig	160 psig	-100 psig	-50 psig	141 psig	144 psig
	PT4	Stage 2 Pressure	☐ I/O Active	0 - 1000 psig	4-20 mA	507 psig	536 psig	800 psig	-100 psig	-50 psig	706 psig	720 psig
	PT5	Stage 3 Pressure	☐ I/O Active	0 - 3000 psig	4-20 mA	1522 psig	1595 psig	1850 psig	-100 psig	-50 psig	1632 psig	1665 psig
	PT6	Stage 4 Pressure	☐ I/O Active	0 - 6000 psig	4-20 mA	4061 psig		5000 psig	-100 psig	-50 psig	4410 psig	4500 psig
	PT9 or DP1	Stage 5 Pressure, Dryer Dew Point(opt.)	☐ I/O Active		4-20 mA				-100 psig	-50 psig	0 psig	0 psig
	PT	Control Air Pressure (opt.)	☐ I/O Active	0 - 300 psig	4-20 mA				70 psig	80 psig	110 psig	115 psig
	GD1	Gas Detector LEL (opt.)	☐ I/O Active	0 - 100 %LEL	4-20 mA	0 % LEL	20 % LEL		-6 % LEL	-5 % LEL	20 % LEL	40 % LEL
	PT60-1	Low Bank Pressure (opt.)	☐ I/O Active		4-20 mA				-100 psig	-50 psig	4500 psig	4600 psig
	PT60-2	Mid Bank Pressure (opt.)	☐ I/O Active		4-20 mA				-100 psig	-50 psig	4500 psig	4600 psig
	PT60-3	High Bank Pressure (opt.)	☐ I/O Active		4-20 mA				-100 psig	-50 psig	4500 psig	4600 psig
	TT7	Final Temperature (opt.)	☐ I/O Active	32 - 392 °F	4-20 mA		120 DegF		-40 DegF	-10 DegF	130 DegF	150 DegF
	TT1	Stage 1 Temperature	☐ I/O Active	32 - 392 °F	4-20 mA		325 DegF		-40 DegF	-10 DegF	349 DegF	350 DegF
	TT2	Stage 2 Temperature	☐ I/O Active	32 - 392 °F	4-20 mA		325 DegF		-40 DegF	-10 DegF	349 DegF	350 DegF
	TT3	Stage 3 Temperature	☐ I/O Active	32 - 392 °F	4-20 mA		325 DegF		-40 DegF	-10 DegF	349 DegF	350 DegF
	TT4	Stage 4 Temperature	☐ I/O Active	32 - 392 °F	4-20 mA		325 DegF		-40 DegF	-10 DegF	349 DegF	350 DegF
	TT6	Compressor Oil Temperature	☐ I/O Active	-58 - 212 °F	4-20 mA				-10 DegF	20 DegF	0 DegF	190 DegF
		Ambient Temp.(opt.)	☐ I/O Active	-58 - 122 °F	4-20 mA	-20 DegF	110 DegF		-40 DegF	-20 DegF	110 DegF	120 DegF
		Time Fill Pressure #1 (opt.)	☐ I/O Active		4-20 mA				-100 psig	-50 psig	4400 psig	4450 psig
		Spare, Time Pressure #2 (opt.)	☐ I/O Active		4-20 mA				-100 psig	-50 psig	4400 psig	4450 psig
		Spare	☐ I/O Active	-	4-20 mA				0 psig	0 psig	0 psig	0 psig
	VT1	Compressor Vibration Transmitter	☐ I/O Active	0 - 2.0 in/sec	4-20 mA						0.19 ips	0.20 ips
			☐ I/O Active	-	4-20 mA				0 psig	0 psig	0 psig	0 psig
			☐ I/O Active	-	4-20 mA				0 psig	0 psig	0 psig	0 psig
			☐ I/O Active	-	4-20 mA				0 psig	0 psig	0 psig	0 psig

DRAWING INDEX	
SHEET	DESCRIPTION
1	INDEX AND GENERAL INFORMATION
2	120VAC POWER DISTRIBUTION
3	24VDC POWER DISTRIBUTION
4	ESD STRING
5	PLC / COMMUNICATIONS WIRING
6	DIGITAL/ANALOG INPUTS (RACK 1 MODULES 1,2)
7	ANALOG INPUTS (RACK 1 MODULES 3,4)
8	ANALOG INPUTS/OUTPUTS – THERMO INPUTS (RACK 1 MODULES 5,6)
9	THERMO INPUTS – DIGITAL OUTPUTS (RACK 1 MODULES 7,8)
10	INTRINSICS WIRING

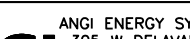


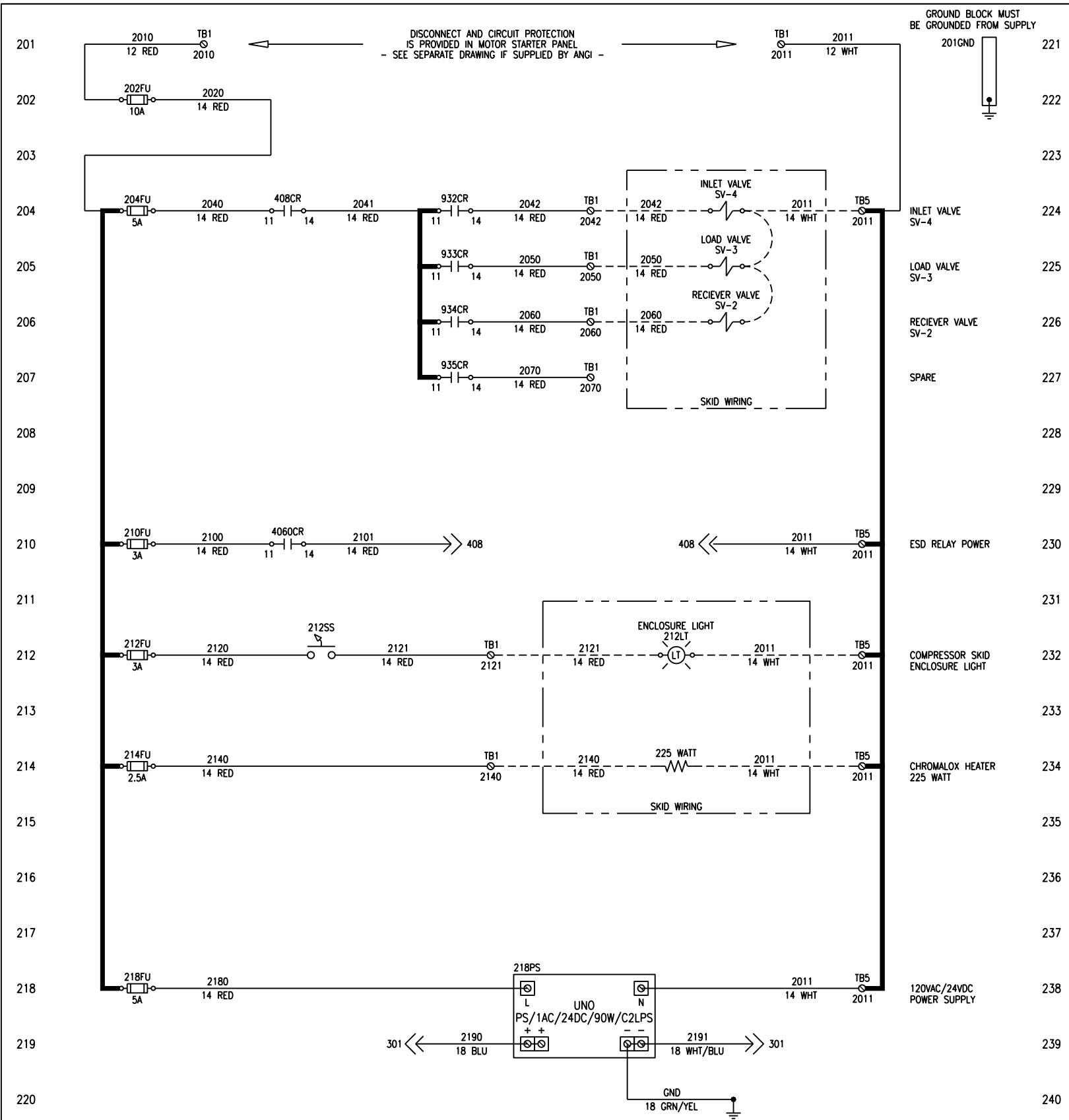
XXXXX-XX (X OF X)
PROJECT NUMBER
COMPRESSOR NUMBER

793-08003

JOB NUMBERXXXXX-XX (X OF X)
SCHEMATICA80-10-XXXXX
PRIMARY SUPPLYAMPS10
VOLTS120VACPHASE1HZ60
SECONDARY SUPPLYAMPS5
VOLTS24VDCPHASE1HZN/A
MOTOR HPN/AFLAN/A
ENCL. TYPE4
SHORT CIRCUIT CURRENT RATING5KAIC
HAZARDOUS LOCATION RATING
CLASS1DIV2GROUPA,B,C,D
www.angienenergy.com

UL FILE AND PANEL TYPE		
X	NNNY.E328888	INDUSTRIAL CONTROL PANELS AND ASSEMBLIES FOR USE IN HAZARDOUS LOCATIONS
	NRBX.E334511	INDUSTRIAL CONTROL PANELS RELATING TO HAZARDOUS LOCATIONS
	NITW.E319535	INDUSTRIAL CONTROL PANELS
		THIRD PARTY CERTIFICATION REQUIRED
	NON CERTIFIED	NO CERTIFICATION REQUIRED / AVAILABLE

						ALL ELECTRICAL CONNECTIONS MUST BE COMPLETED OR SUPERVISED BY QUALIFIED PERSONNEL, AND MEET ALL LOCAL AND APPLICABLE CODES. REFER TO NEC FOR MORE INFORMATION.	 ANGI ENERGY SYSTEMS 305 W DELAVAN DR JANESVILLE, WI 53546 PH: 608-563-2800 www.angienenergy.com CONTROLLED DRAWING THIS DRAWING COMPLIES WITH AGENCY LISTINGS. DO NOT CHANGE WITHOUT APPROVAL FROM ENGINEERING DEPARTMENT.	TITLE NG75 SIMPLEX COMPRESSOR (XL7/SMARTAIL) – ELECTRICAL SCHEMATIC INDEX AND GENERAL INFORMATION					
B	4/7/21 MWS	HEATER POWER / ESD / INTRINSICS ACN1018631				THIS DRAWING AND INFORMATION THEREIN IS PROPRIETARY INFORMATION, AND IS THE SOLE PROPERTY OF ANGI ENERGY SYSTEMS LLC. IT MAY NOT BE COPIED, REPRODUCED OR PROVIDED TO OTHERS WITHOUT EXPRESS WRITTEN AUTHORIZATION BY ANGI ENERGY SYSTEMS LLC. ALL COPIES AND REPRODUCTIONS ARE THE PROPERTY OF ANGI ENERGY AND SUBJECT TO RETURN ON DEMAND.		CUSTOMER ZAP Engineering – Grand Junction, CO			PROJECT NO. 50951		
A	3/16/21 MWS	INITIAL RELEASE ACN1018443						DRN MWS	DATE 2/18/21	SCALE N/A	DRAWING NO. A80-10-50951		REV. B
REV	DATE/BY	DESCRIPTION	REV	DATE/BY	DESCRIPTION			CHK	DATE	SHT 1	TOT 10		



REV	DATE/BY	DESCRIPTION	REV	DATE/BY	DESCRIPTION
B	4/7/21 MWS	HEATER POWER / ESD / INTRINSICS ACN1018631			
A	3/16/21 MWS	INITIAL RELEASE ACN1018443			

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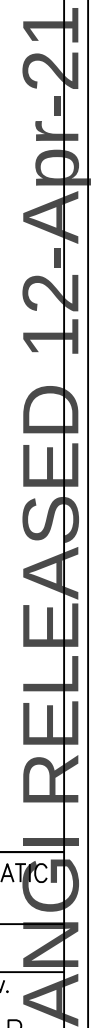


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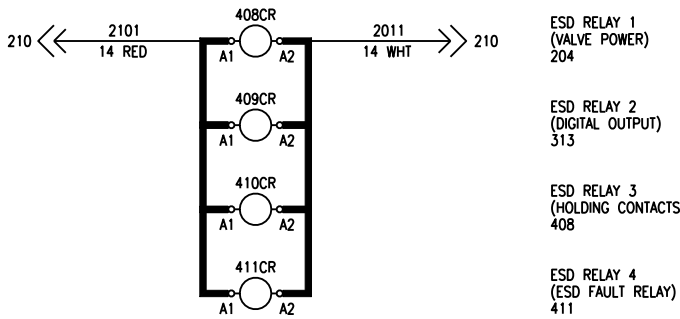
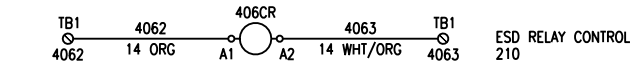
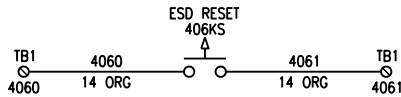
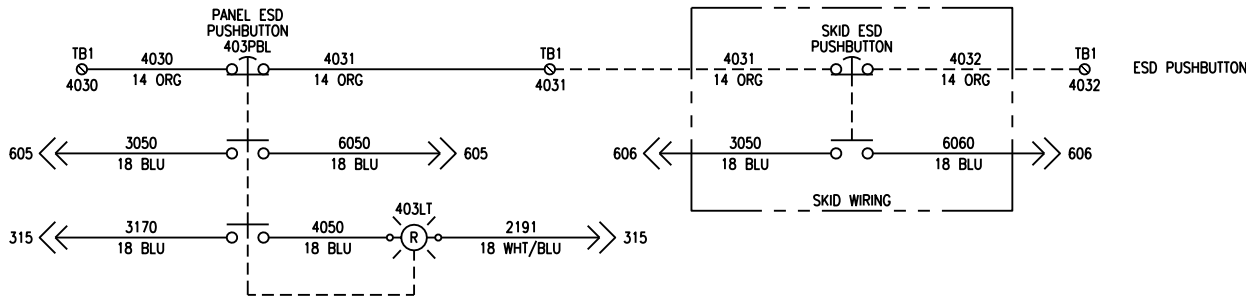
TITLE NG75 SIMPLEX COMPRESSOR (XL7/SMARTAIL) - ELECTRICAL SCHEMATIC 120VAC POWER DISTRIBUTION					
CUSTOMER ZAP Engineering - Grand Junction, CO			PROJECT NO. 50951		
DRN MWS	DATE 2/18/21	SCALE N/A	DRAWING NO. A80-10-50951		REV. B
CHK	DATE	SHT 2 TOT 10			

ANGI RELEASED 12-Apr-21



 ANGI ANGI ENERGY SYSTEMS 305 W DELAVAN DR JANESVILLE, WI 53546 PH: 608-563-2800 www.angienergy.com	TITLE NG75 SIMPLEX COMPRESSOR (XL7/SMARTAIL) – ELECTRICAL SCHEMATIC 24VDC POWER DISTRIBUTION									
	CUSTOMER ZAP Engineering – Grand Junction, CO					PROJECT NO. 50951				
<u>CONTROLLED DRAWING</u> THIS DRAWING COMPLIES WITH AGENCY LISTINGS. DO NOT CHANGE WITHOUT APPROVAL FROM ENGINEERING DEPARTMENT.	DRN	MWS	DATE	2/18/21	SCALE	N/A		DRAWING NO.		REV.
	CHK		DATE		SHT	3	TOT	10	A80-10-50951	B

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B	4/7/21 MWS	HEATER POWER / ESD / INTRINSICS ACN1018631			
A	3/16/21 MWS	INITIAL RELEASE ACN1018443			
REV	DATE/BY	DESCRIPTION	REV	DATE/BY	DESCRIPTION

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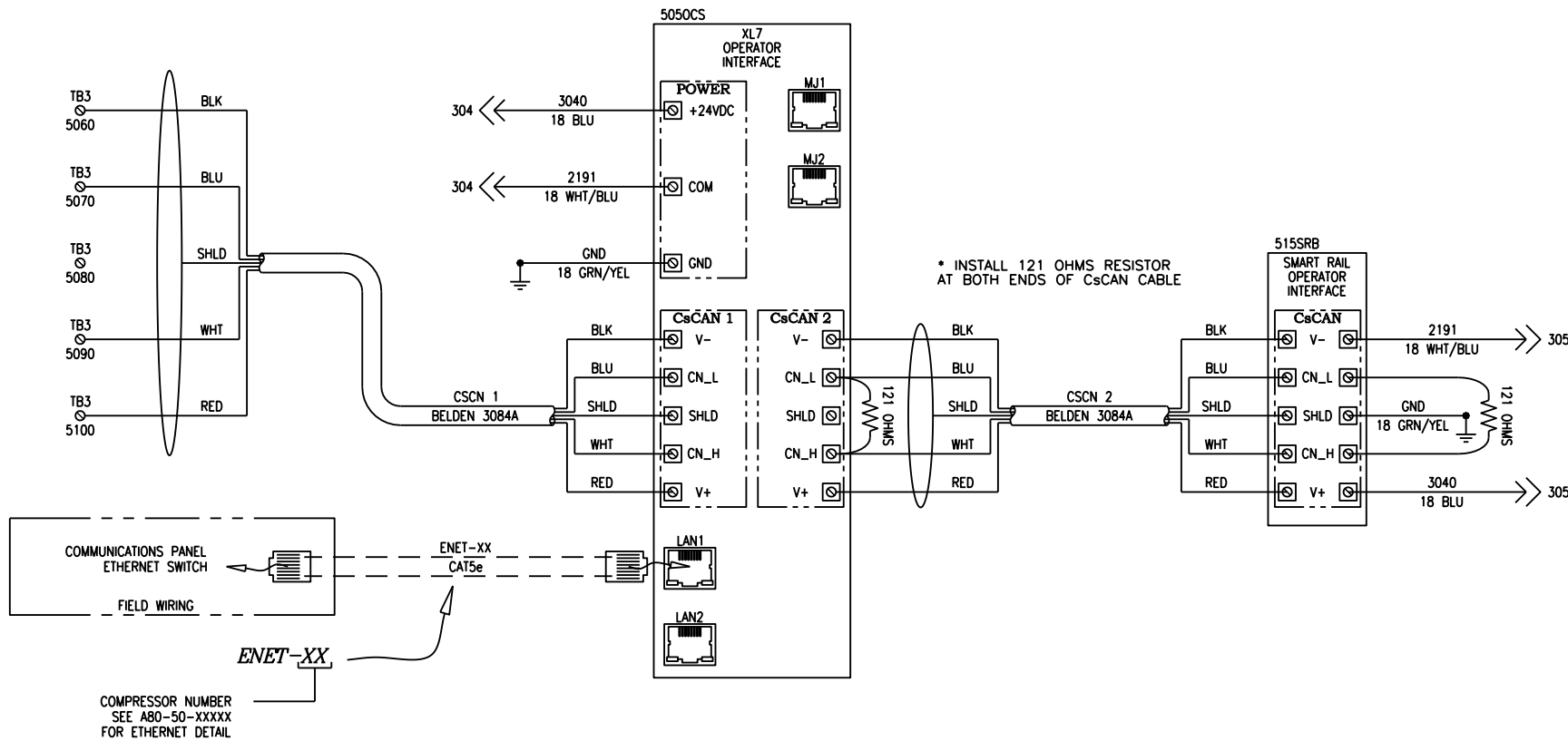
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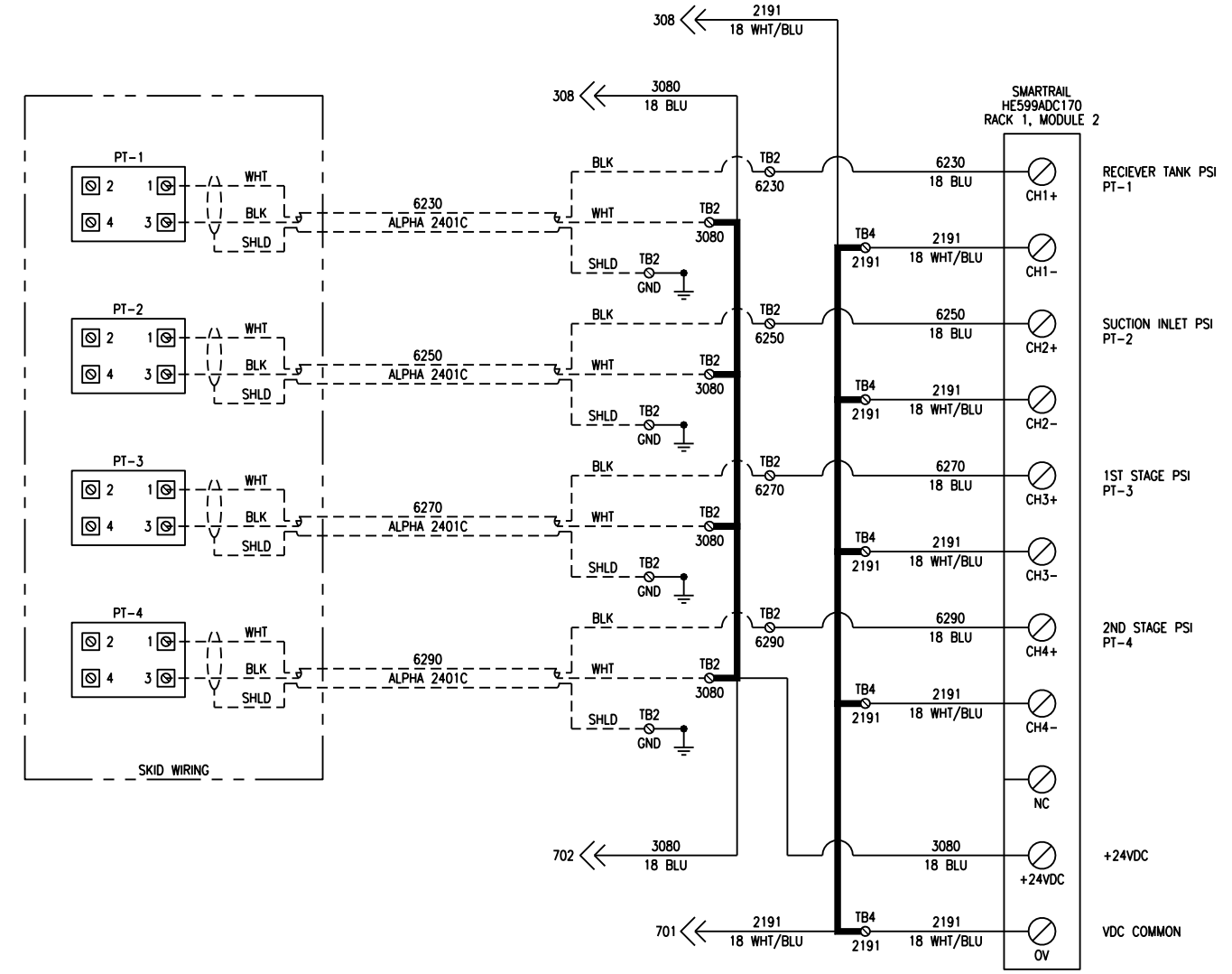
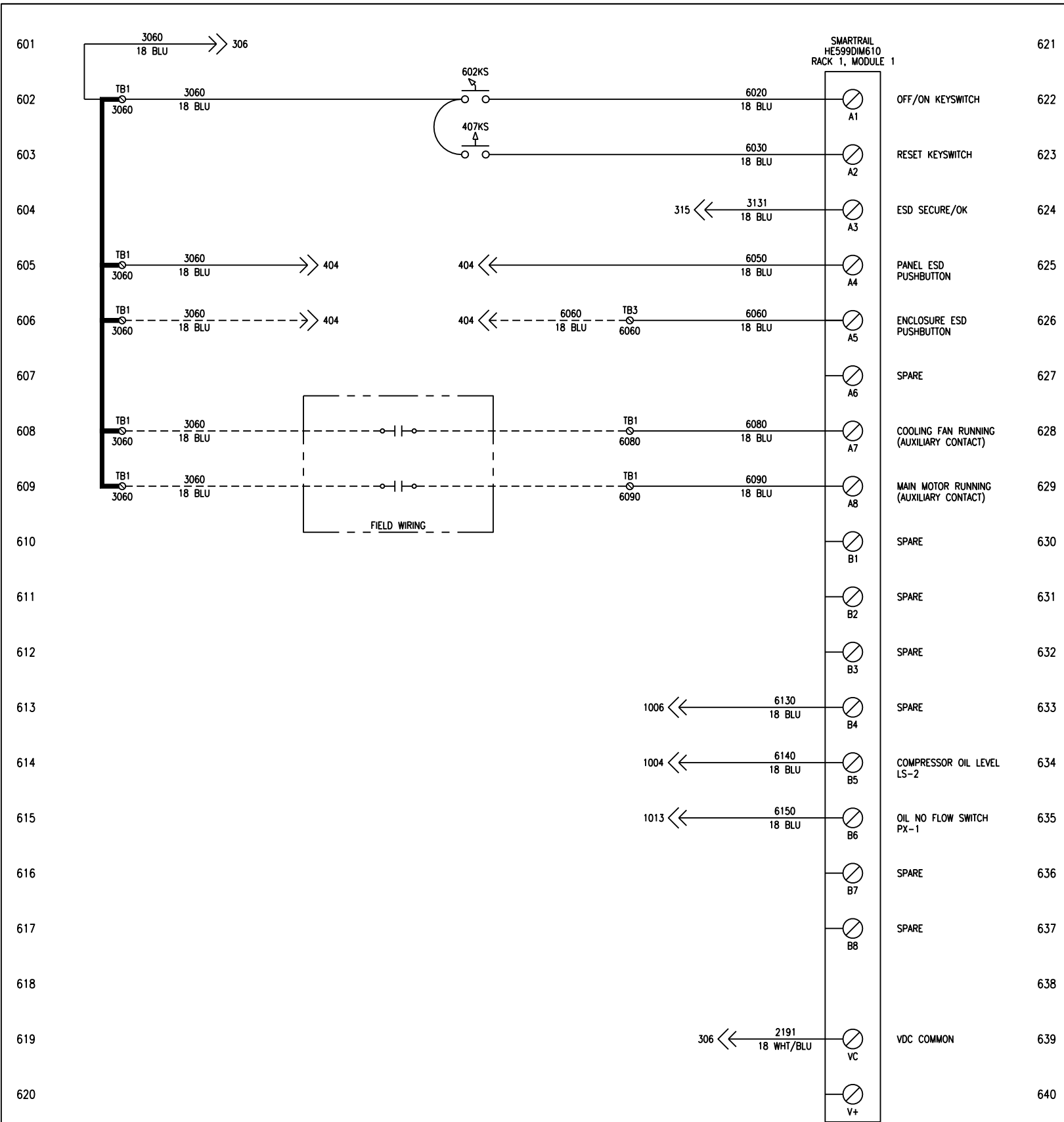
TITLE NG75 SIMPLEX COMPRESSOR (XL7/SMARTAIL) – ELECTRICAL SCHEMATIC ESD STRING					
CUSTOMER ZAP Engineering – Grand Junction, CO				PROJECT NO. 50951	
DRN MWS	DATE 2/18/21	SCALE N/A	DRAWING NO. A80-10-50951		REV. B
CHK	DATE	SHT 4 TOT 10			

ANGI RELEASED 12-Apr-21

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					ALL ELECTRICAL CONNECTIONS MUST BE COMPLETED OR SUPERVISED BY QUALIFIED PERSONNEL, AND MEET ALL LOCAL AND APPLICABLE CODES. REFER TO NEC FOR MORE INFORMATION.	 ANGI ENERGY SYSTEMS 305 W DELAVAN DR JANESVILLE, WI 53546 PH: 608-563-2800 www.angienergy.com CONTROLLED DRAWING THIS DRAWING COMPLIES WITH AGENCY LISTINGS. DO NOT CHANGE WITHOUT APPROVAL FROM ENGINEERING DEPARTMENT.	TITLE NG75 SIMPLEX COMPRESSOR (XL7/SMARTAIL) – ELECTRICAL SCHEMATIC PLC / COMMUNICATIONS WIRING				
B	4/7/21 MWS	HEATER POWER / ESD / INTRINSICS ACN1018631			THIS DRAWING AND INFORMATION THEREIN IS PROPRIETARY INFORMATION, AND IS THE SOLE PROPERTY OF ANGI ENERGY SYSTEMS LLC. IT MAY NOT BE COPIED, REPRODUCED OR PROVIDED TO OTHERS WITHOUT EXPRESS WRITTEN AUTHORIZATION BY ANGI ENERGY SYSTEMS LLC. ALL COPIES AND REPRODUCTIONS ARE THE PROPERTY OF ANGI ENERGY AND SUBJECT TO RETURN ON DEMAND.		CUSTOMER ZAP Engineering – Grand Junction, CO		PROJECT NO. 50951		
A	3/16/21 MWS	INITIAL RELEASE ACN1018443					DRN MWS	DATE 2/18/21	SCALE N/A	DRAWING NO. A80-10-50951	REV. B
REV	DATE/BY	DESCRIPTION	REV	DATE/BY			DESCRIPTION	CHK	DATE		



REV	DATE/BY	DESCRIPTION	REV	DATE/BY	DESCRIPTION
B	4/7/21 MWS	HEATER POWER / ESD / INTRINSICS ACN1018631			
A	3/16/21 MWS	INITIAL RELEASE ACN1018443			

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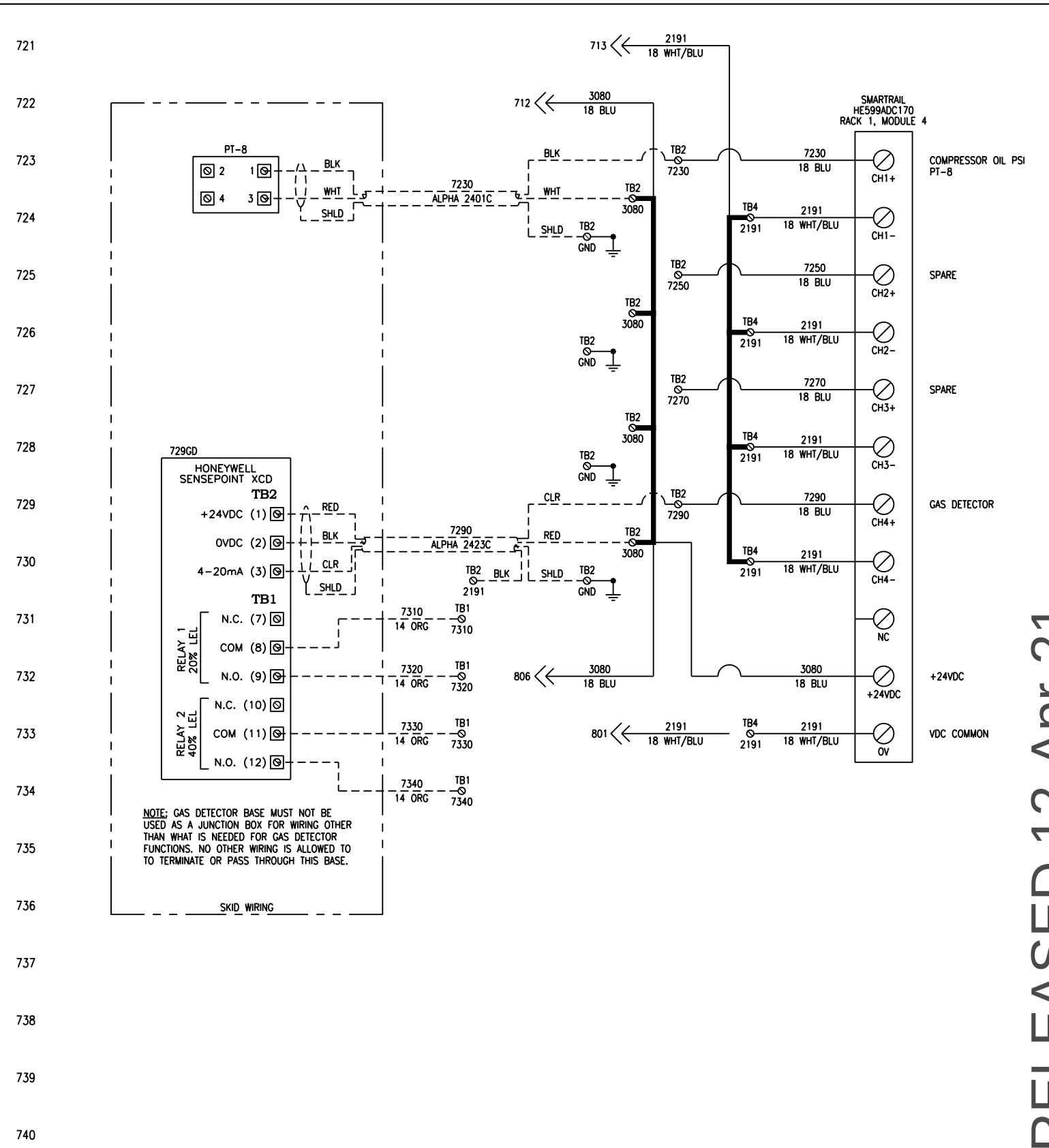
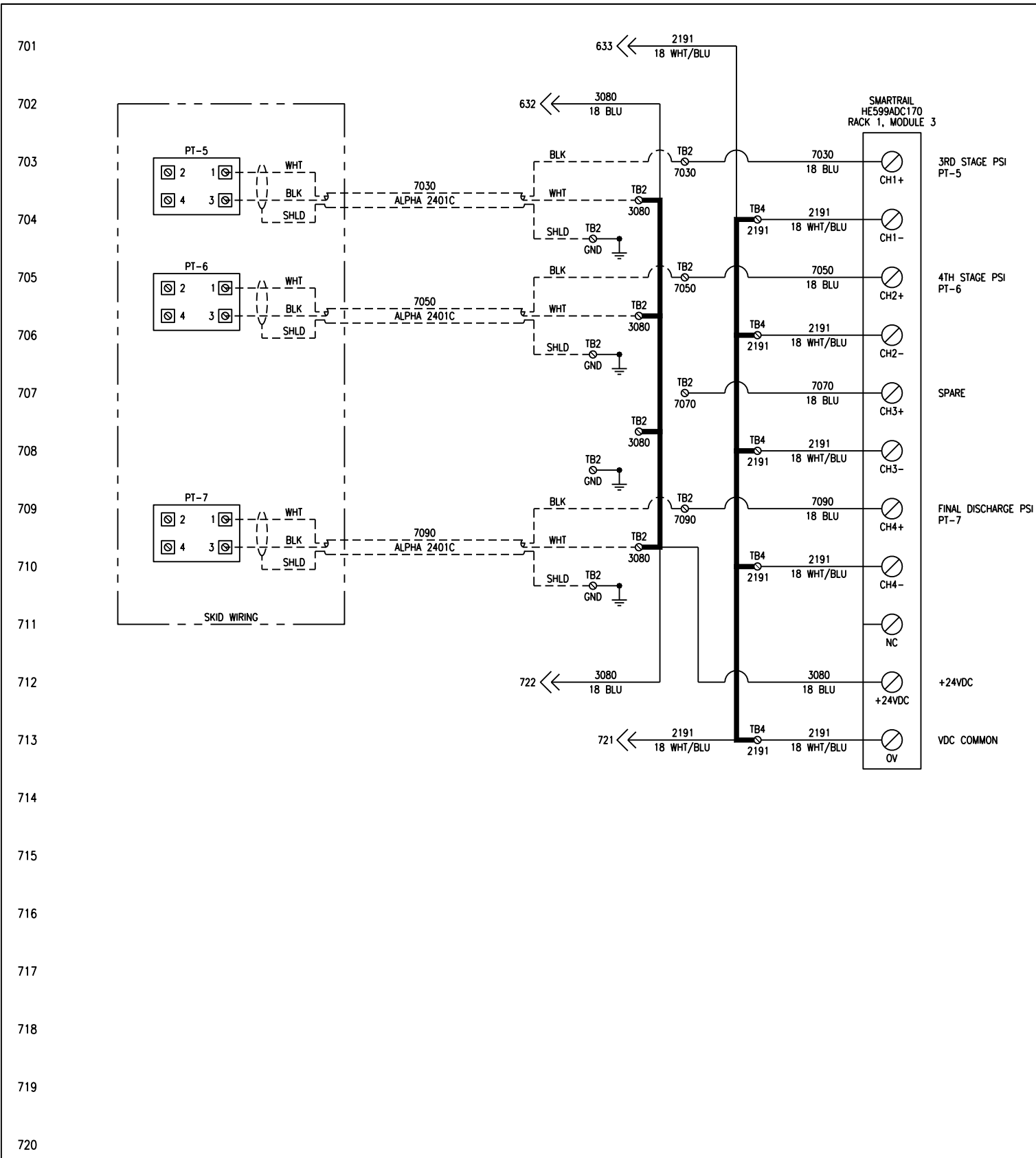
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TITLE NG75 SIMPLEX COMPRESSOR (XL7/SMARTRAIL) - ELECTRICAL SCHEMATIC					
DIGITAL/ANALOG INPUTS (RACK 1 MODULES 1,2)					
CUSTOMER ZAP Engineering - Grand Junction, CO			PROJECT NO. 50951		
DRN MWS	DATE 2/18/21	SCALE N/A	DRAWING NO. A80-10-50951		REV. B
CHK	DATE	SHT 6 TOT 10			

ANGI RELEASED 12-Apr-21

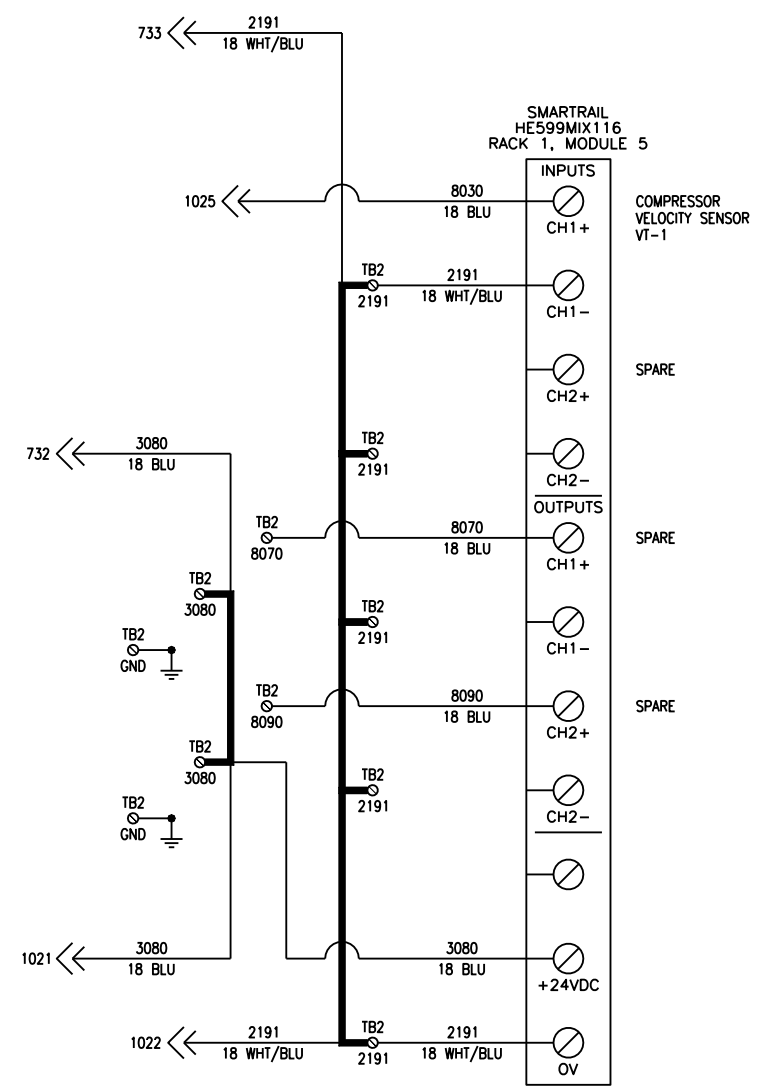


						ALL ELECTRICAL CONNECTIONS MUST BE COMPLETED OR SUPERVISED BY QUALIFIED PERSONNEL, AND MEET ALL LOCAL AND APPLICABLE CODES. REFER TO NEC FOR MORE INFORMATION. THIS DRAWING AND INFORMATION THEREIN IS PROPRIETARY INFORMATION, AND IS THE SOLE PROPERTY OF ANGI ENERGY SYSTEMS LLC. IT MAY NOT BE COPIED, REPRODUCED OR PROVIDED TO OTHERS WITHOUT EXPRESS WRITTEN AUTHORIZATION BY ANGI ENERGY SYSTEMS LLC. ALL COPIES AND REPRODUCTIONS ARE THE PROPERTY OF ANGI ENERGY AND SUBJECT TO RETURN ON DEMAND.	 ANGI ENERGY SYSTEMS 305 W DELAVAN DR JANESVILLE, WI 53546 PH: 608-563-2800 www.angienergy.com CONTROLLED DRAWING THIS DRAWING COMPLIES WITH AGENCY LISTINGS. DO NOT CHANGE WITHOUT APPROVAL FROM ENGINEERING DEPARTMENT.	TITLE NG75 SIMPLEX COMPRESSOR (XL7/SMARTRAIL) – ELECTRICAL SCHEMATIC ANALOG INPUTS (RACK 1 MODULES 3,4)					
B	4/7/21 MWS	HEATER POWER / ESD / INTRINSICS ACN1018631							CUSTOMER ZAP Engineering – Grand Junction, CO		PROJECT NO. 50951		
A	3/16/21 MWS	INITIAL RELEASE ACN1018443							DRN MWS	DATE 2/18/21	SCALE N/A	DRAWING NO. A80-10-50951	REV. B
REV	DATE/BY	DESCRIPTION		REV	DATE/BY			DESCRIPTION	CHK	DATE	SHT 7	TOT 10	

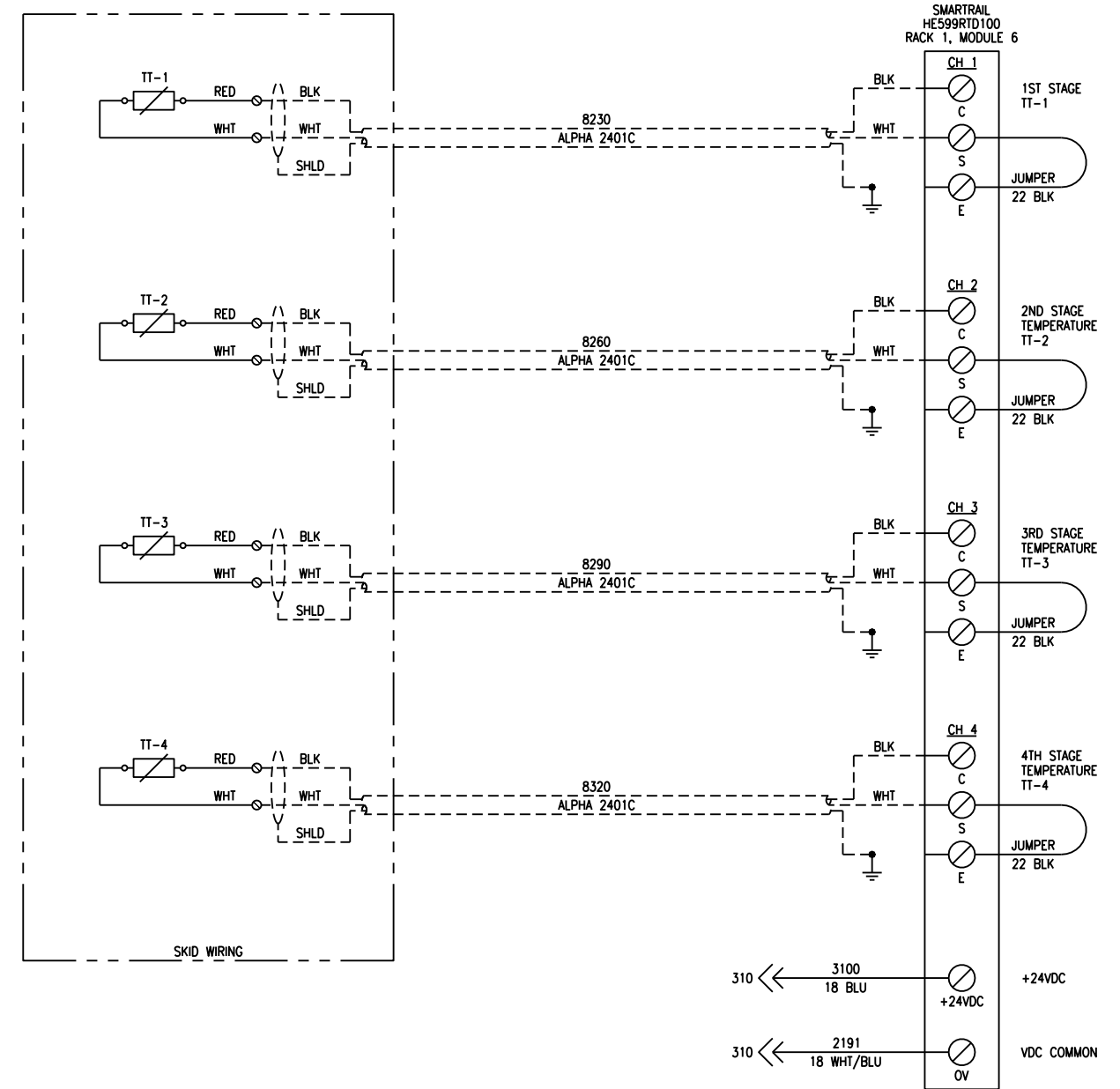
AUTOCAD WINDCHILL

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B	4/7/21 MWS	HEATER POWER / ESD / INTRINSICS ACN1018631			
A	3/16/21 MWS	INITIAL RELEASE ACN1018443			
REV	DATE/BY	DESCRIPTION	REV	DATE/BY	DESCRIPTION

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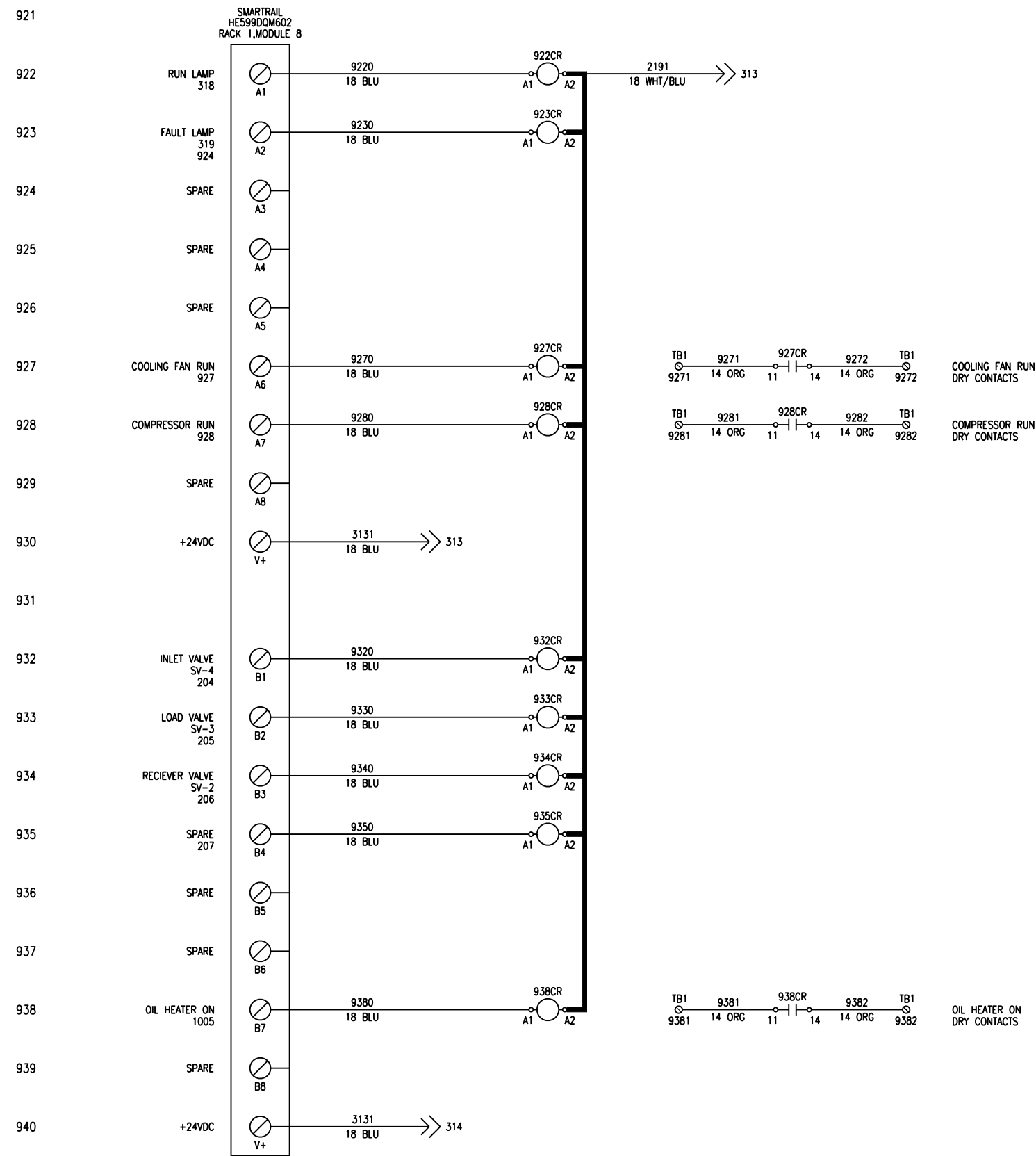


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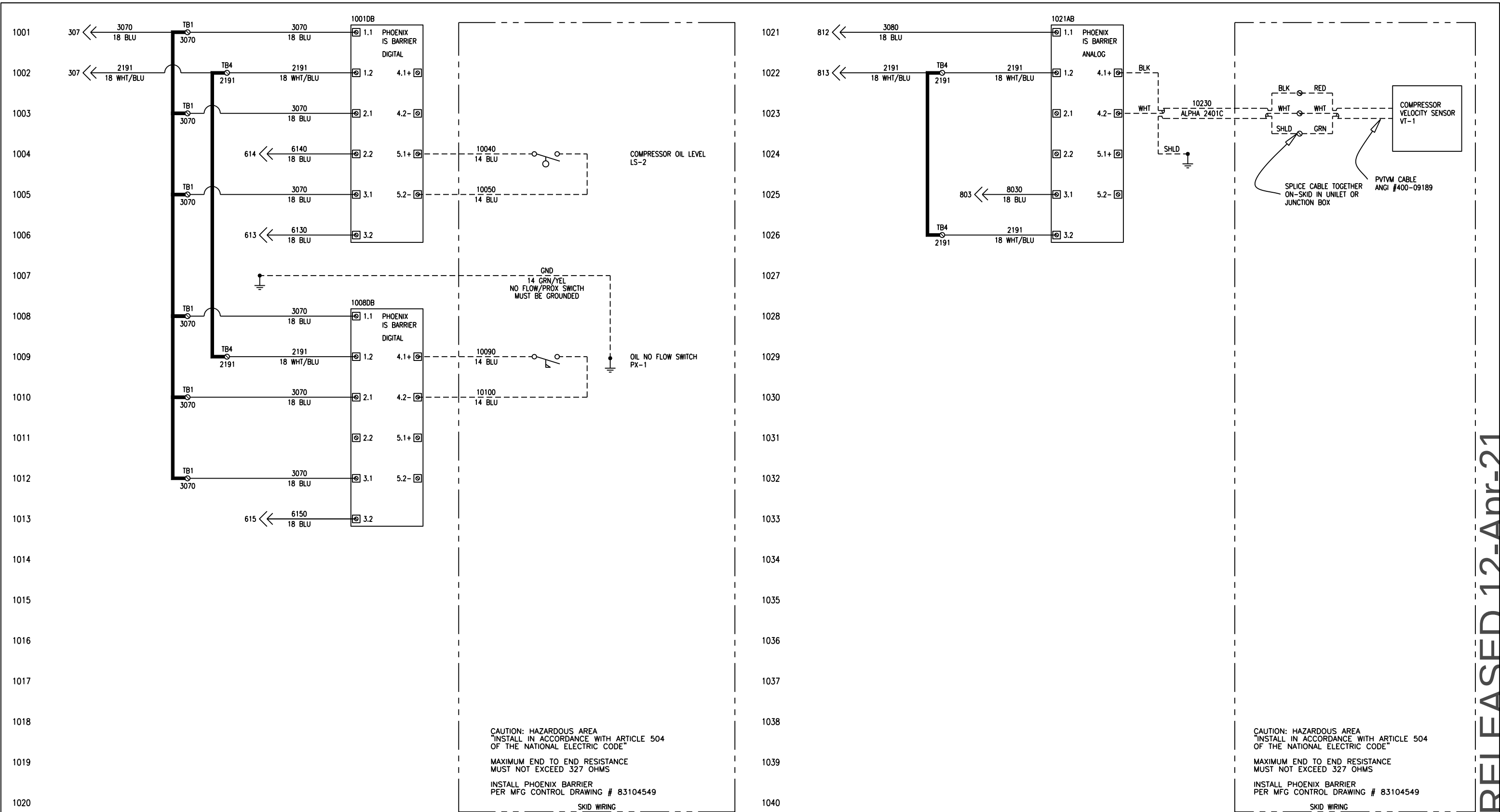
TITLE NG75 SIMPLEX COMPRESSOR (XL7/SMARTAIL) - ELECTRICAL SCHEMATIC ANALOG INPUTS/OUTPUTS - THERMO INPUTS (RACK 1 MODULES 5,6)					
CUSTOMER ZAP Engineering - Grand Junction, CO			PROJECT NO. 50951		
DRN MWS	DATE 2/18/21	SCALE N/A	DRAWING NO. A80-10-50951		REV. B
CHK	DATE	SHT 8 TOT 10			

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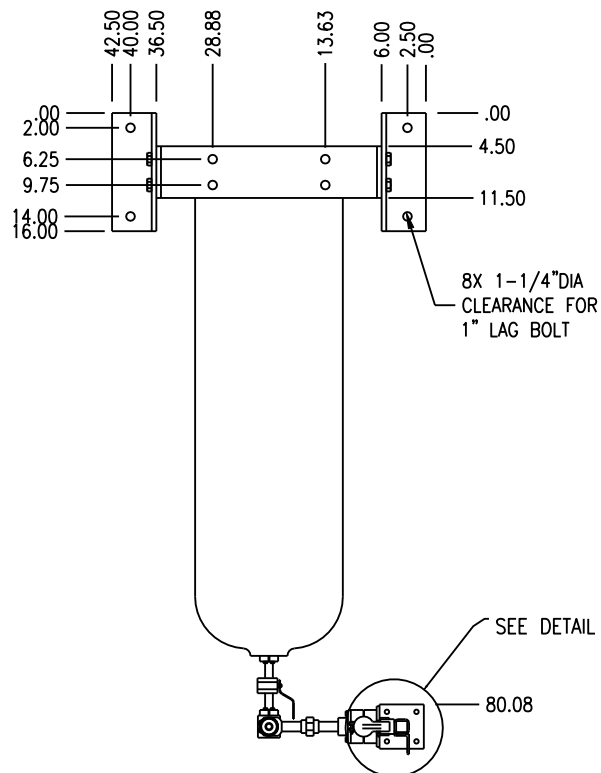


						ALL ELECTRICAL CONNECTIONS MUST BE COMPLETED OR SUPERVISED BY QUALIFIED PERSONNEL, AND MEET ALL LOCAL AND APPLICABLE CODES. REFER TO NEC FOR MORE INFORMATION.	 ANGI ENERGY SYSTEMS 305 W DELAVAN DR JANESVILLE, WI 53546 PH: 608-563-2800 www.angienergy.com	TITLE NG75 SIMPLEX COMPRESSOR (XL7/SMARTAIL) – ELECTRICAL SCHEMATIC THERMO INPUTS – DIGITAL OUTPUTS (RACK 1 MODULES 7,8)						
								CUSTOMER ZAP Engineering – Grand Junction, CO			PROJECT NO. 50951			
B	4/7/21 MWS	HEATER POWER / ESD / INTRINSICS ACN1018631						CONTROLLED DRAWING THIS DRAWING COMPLIES WITH AGENCY LISTINGS. DO NOT CHANGE WITHOUT APPROVAL FROM ENGINEERING DEPARTMENT.	DRN	MWS	DATE 2/18/21	SCALE N/A	DRAWING NO. A80-10-50951	REV. B
A	3/16/21 MWS	INITIAL RELEASE ACN1018443							CHK		DATE	SHT 9		
REV	DATE/BY	DESCRIPTION			REV	DATE/BY	DESCRIPTION							

2025 RELEASE UNDER E.O. 14176

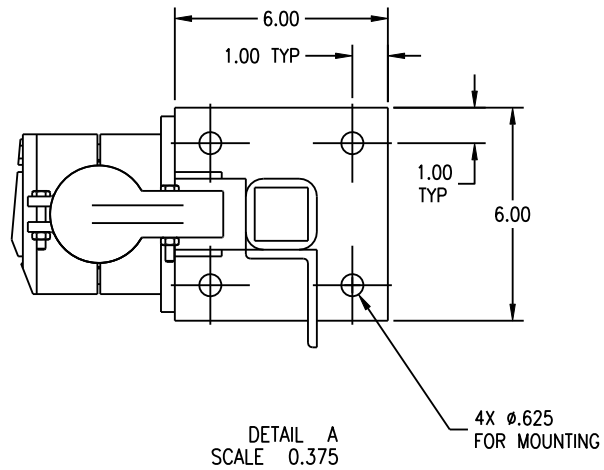


						ALL ELECTRICAL CONNECTIONS MUST BE COMPLETED OR SUPERVISED BY QUALIFIED PERSONNEL, AND MEET ALL LOCAL AND APPLICABLE CODES. REFER TO NEC FOR MORE INFORMATION.	 ANGI ENERGY SYSTEMS 305 W DELAVAN DR JANESVILLE, WI 53546 PH: 608-563-2800 www.angienergy.com	TITLE NG75 SIMPLEX COMPRESSOR (XL7/SMARTAIL) – ELECTRICAL SCHEMATIC INTRINSICS WIRING					
B	4/7/21 MWS	HEATER POWER / ESD / INTRINSICS ACN1018631						THIS DRAWING AND INFORMATION THEREIN IS PROPRIETARY INFORMATION, AND IS THE SOLE PROPERTY OF ANGI ENERGY SYSTEMS LLC. IT MAY NOT BE COPIED, REPRODUCED OR PROVIDED TO OTHERS WITHOUT EXPRESS WRITTEN AUTHORIZATION BY ANGI ENERGY SYSTEMS LLC. ALL COPIES AND REPRODUCTIONS ARE THE PROPERTY OF ANGI ENERGY AND SUBJECT TO RETURN ON DEMAND.	CUSTOMER ZAP Engineering – Grand Junction, CO		PROJECT NO. 50951		
A	3/16/21 MWS	INITIAL RELEASE ACN1018443				CONTROLLED DRAWING THIS DRAWING COMPLIES WITH AGENCY LISTINGS. DO NOT CHANGE WITHOUT APPROVAL FROM ENGINEERING DEPARTMENT.			DRN MWS	DATE 2/18/21	SCALE N/A	DRAWING NO. A80-10-50951	REV. B
REV	DATE/BY	DESCRIPTION		REV	DATE/BY	DESCRIPTION			CHK	DATE	SHT 10		

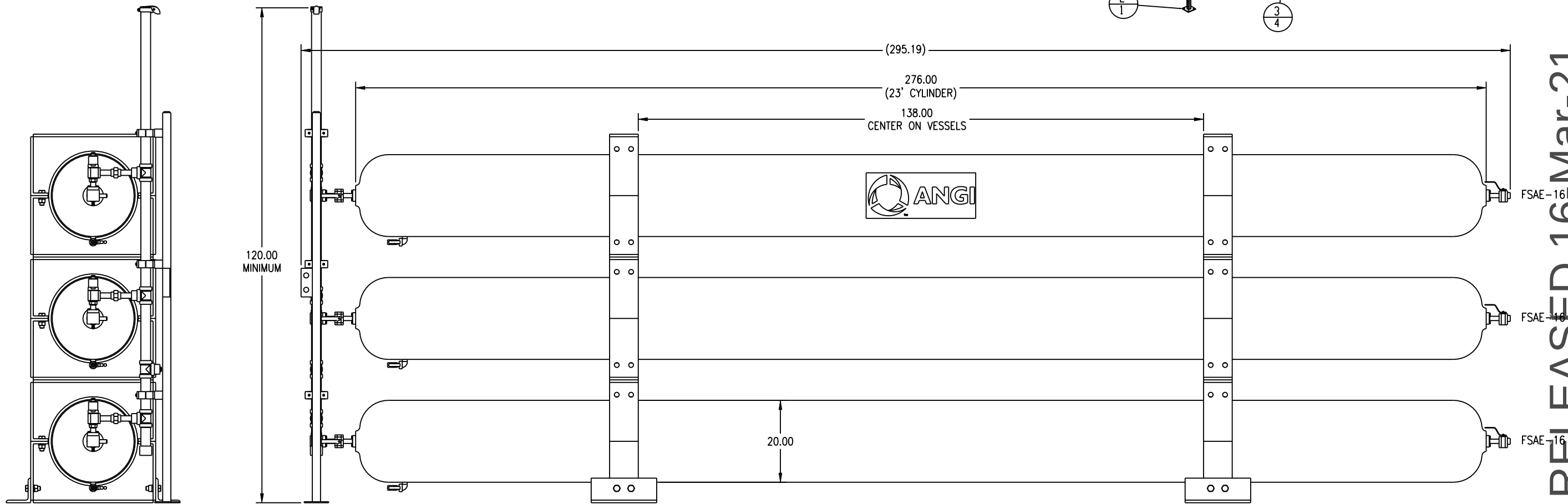
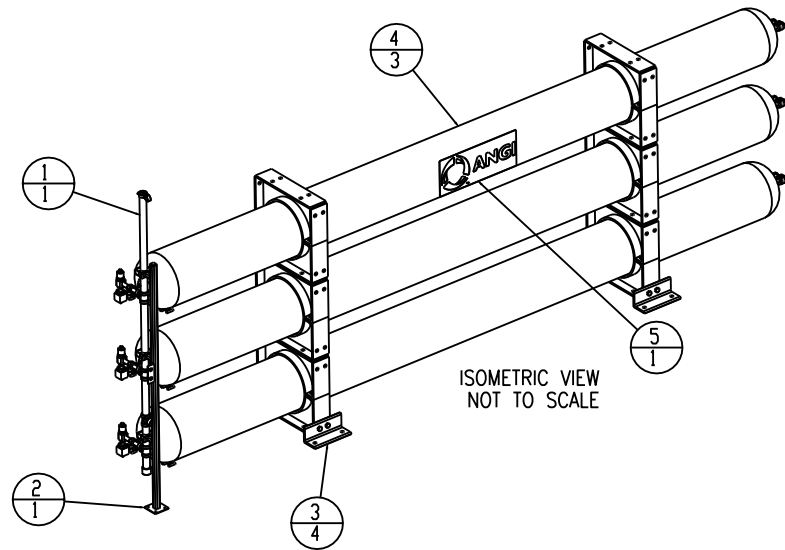


ASSEMBLY NUMBER	#4 CYLINDER ASSY	DESCRIPTION	SRV SETTING
A30-20-019-01	S01-10-050-01	STORAGE CYL ASSY-23' CD62 CONNECTION ENDS	5500#
A30-20-019-02	S01-10-050-02	STORAGE CYL ASSY-23' CD62 CONNECTION ENDS	5200#
A30-20-019-03	S01-10-050-03	STORAGE CYL ASSY-23' CD62 CONNECTION ENDS	5000#

ITEM	QTY	NAME	DESCRIPTION
1	1	S01-80-002	VENT TO ATMOSPHERE-3-PAK-VERT 2" SCH80 MANIFOLDED PIPE FOR SRV'S
2	1	S01-80-014	SUPPORT POLE-VENT STACK 1,2 OR 3-PAK STORAGE FOR 2" MANIFOLDED
3	4	S01-80-001	MOUNTING ANGLE FEET-STORAGE SADDLE RACK SEISMIC
4	3	SEE CHART	STORAGE CYL ASSY-23'
5	1	791-04480	DECAL-ANGI 7-5/8x25-3/4



3-PAK ASME SECTION VIII, DIV.1
NATURAL GAS STORAGE VESSELS -
20" x 23' LONG
34,713 SCF TOTAL CAPACITY AT 4500 PSIG - (11,571 SCF EACH BOTTLE)
102.6 CU FT TOTAL WATER VOL - (34.2 CU FT EACH BOTTLE)
MAWP = 5500 PSIG
WEIGHT = 22,500 LBS (7500 LBS EACH BOTTLE)



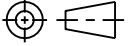
REV	DATE/BY	DESCRIPTION	REV	DATE/BY	DESCRIPTION
B	03/15/2021 HREYN	CHNGD SAE-12 TO SAE-16 ACN1018421			
A	02/07/2019 HREYN	RELEASED			



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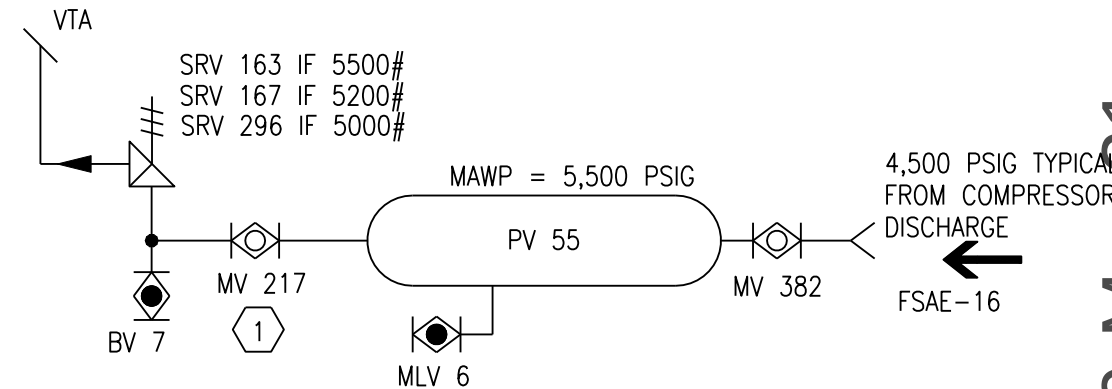
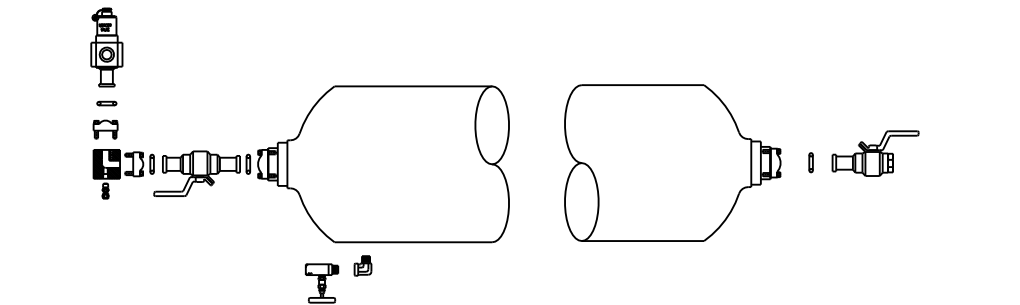
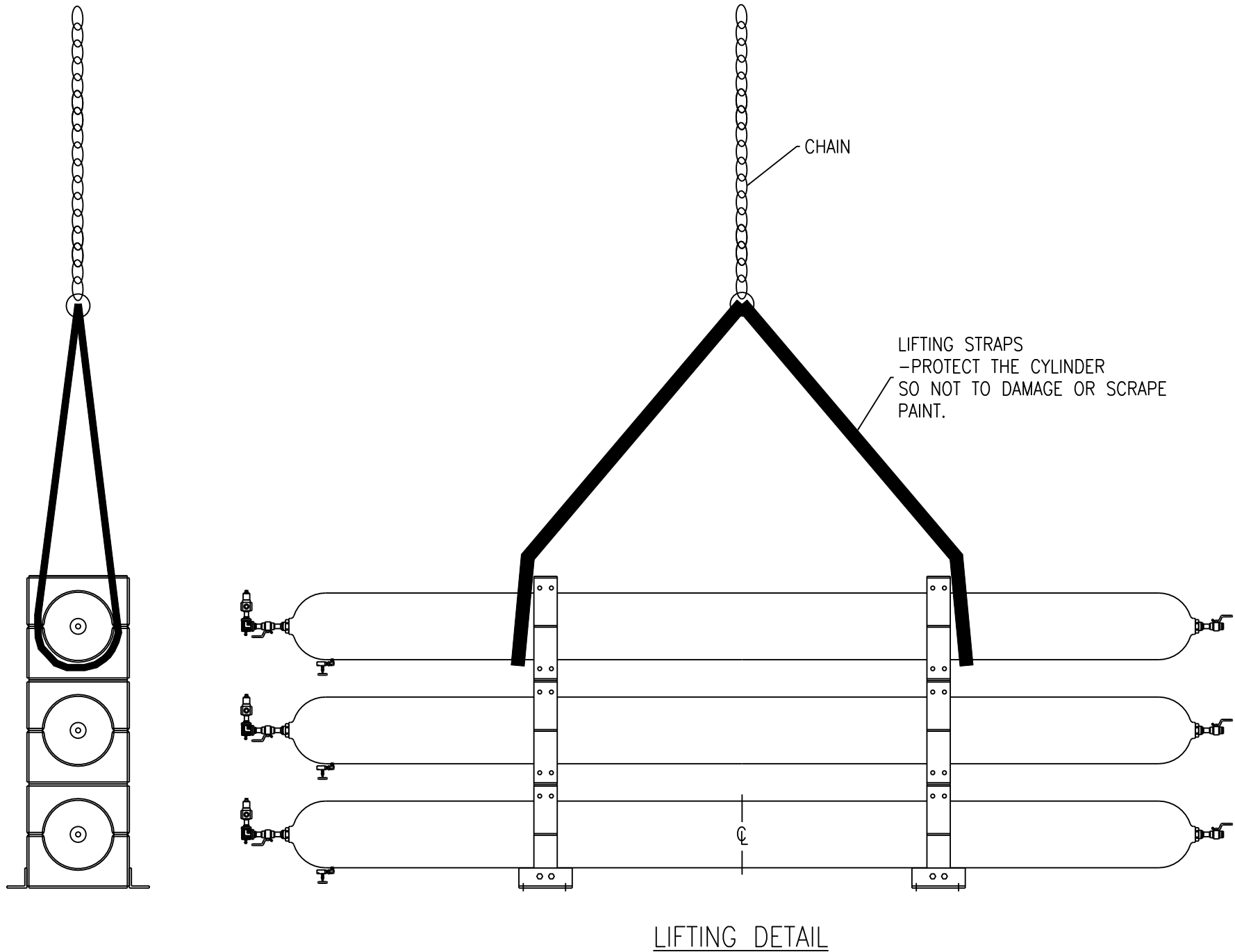
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 BREAK SHARP EDGES .005-.015
ALL DIMENSIONS IN INCHES

FRACTIONAL ± 1/8
TWO PLACE DECIMAL ± .010
THREE PLACE DECIMAL ± .005
ANGLES ± 1°

TITLE ASSY-STORAGE 3-PAK 20" x 23' CD62 1Wx3H, SUPPORT & STACK FSAE-16 ENDS - DIMENSIONS					
CUSTOMER			PROJECT NO.		
DRN	DATE	SCALE	DRAWING NO.		REV.
MPINN	02/05/2019	1:26	A30-20-019-CD		B
CHK	DATE	SHT 1 TOT 3			

DESIGNATOR	PART NUMBER	DESCRIPTION
BV 7	330-07281	VALVE-PURGE 1/4MNPT 6000# SS
MLV 6	338-07233	VALVE-NEEDLE 1/2 MLxFML 6000# KF TEFLON
MV 217	334-07426	VALVE-BALL SVF CD62 W/LKG HDL 6000#
MV 382	334-07605	VALVE-BALL OASIS SAE-16 6000#
PV 55	983-07245-04	CYL-STORAGE 20"x1.303"MWx23'LG 5500#MAWP
SRV 163	331-08063	VALVE-RELIEF 5500# MERCER C-ORF 3/4CD62
SRV 167	331-08079	VALVE-RELIEF 5200# MERCER C-ORF 3/4CD62
SRV 296	331-08196	VALVE-RELIEF 5000# MERCER C-ORF 3/4CD62



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BREAK SHARP EDGES .005-.015

ALL DIMENSIONS IN INCHES

FRACTIONAL ± 1/8

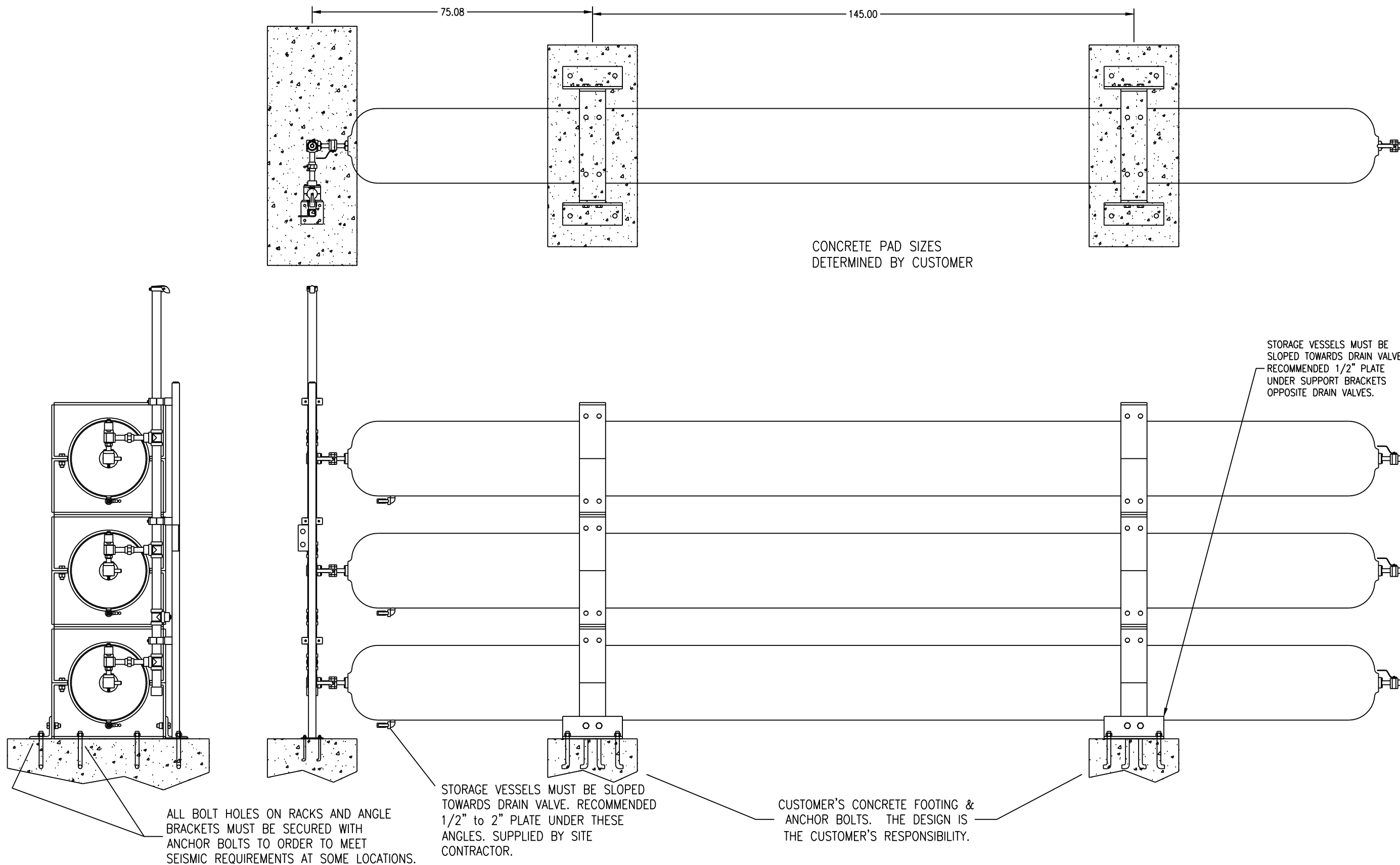
TWO PLACE DECIMAL ± .010

THREE PLACE DECIMAL ± .005

ANGLES ± 1°

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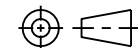
TITLE ASSY-STORAGE 3-PAK 20" x 23' CD62 1Wx3H, SUPPORT & STACK FSAE-16 ENDS - LIFTING DETAIL					
CUSTOMER				PROJECT NO.	
DRN	DATE	SCALE	DRAWING NO.		REV.
MPINN	02/05/2019	1:26	A30-20-019-CD		B
CHK	DATE	SHT	TOT		
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BREAK SHARP EDGES .005-.015
ALL DIMENSIONS IN INCHES

FRACTIONAL	± 1/8
TWO PLACE DECIMAL	± .010
THREE PLACE DECIMAL	± .005
ANGLES	± 1°

TITLE ASSY-STORAGE 3-PAK 20" x 23' CD62 1Wx3H, SUPPORT & STACK
FSAE-16 ENDS - FOOTING DETAIL

CUSTOMER PROJECT NO.

DRN	DATE	SCALE	DRAWING NO.	REV.
MPINN	02/05/2019	1:26	A30-20-019-CD	B
CHK	DATE	SHT 3 TOT 3		

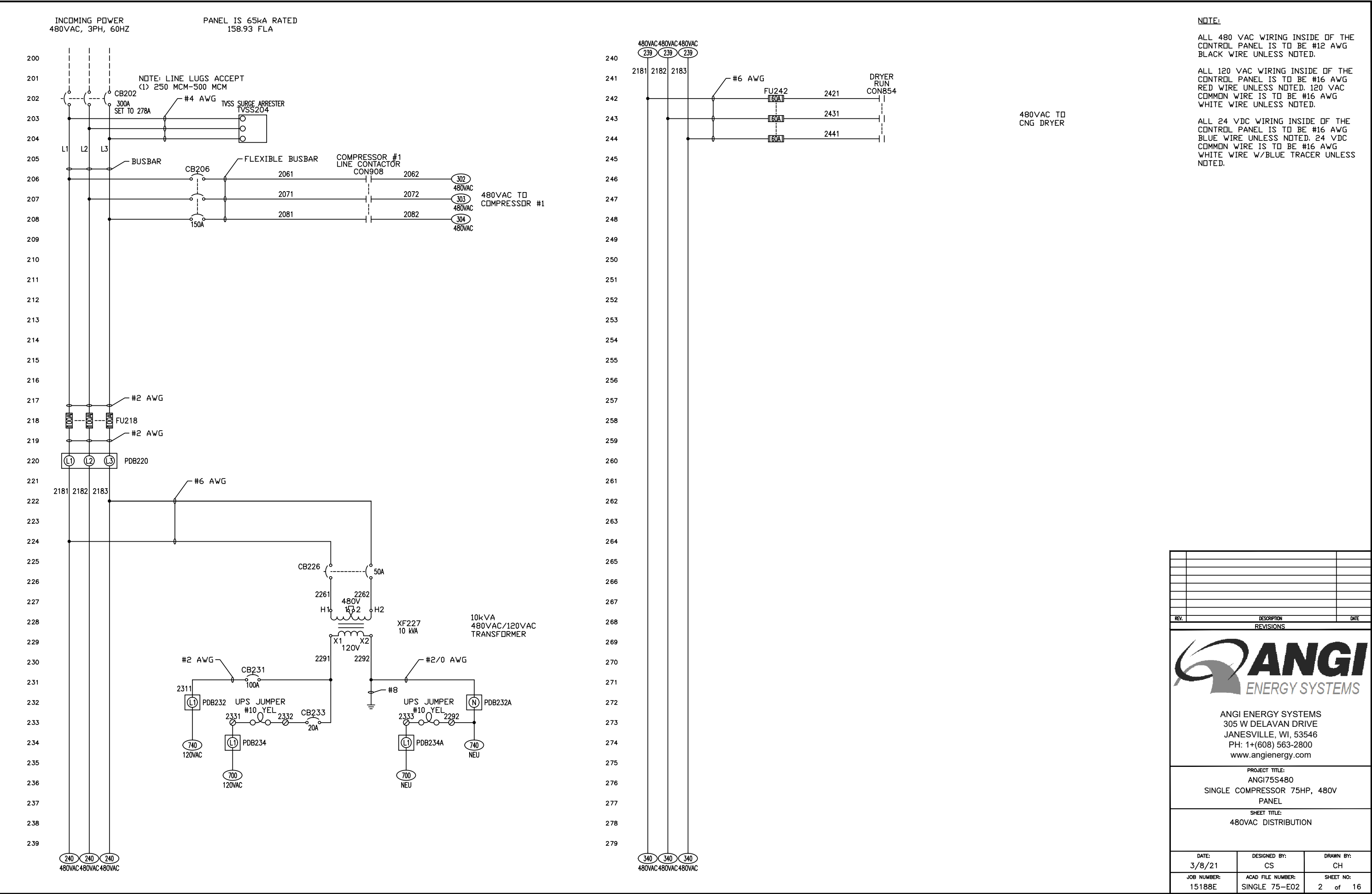
AUTOCAD WINDCHILL

ANGI RELEASED 16-Mar-21

ELECTRICAL DRAWINGS

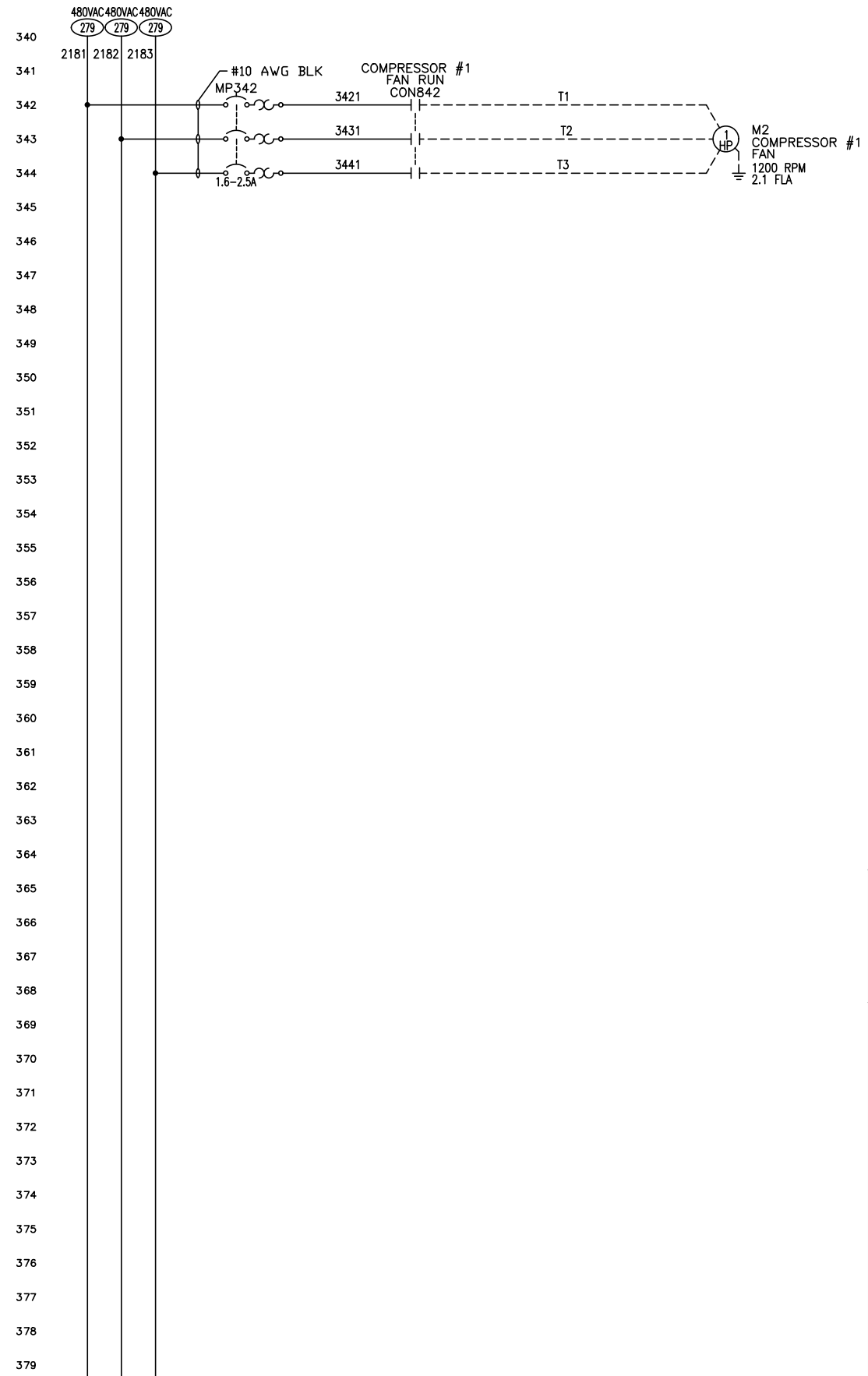
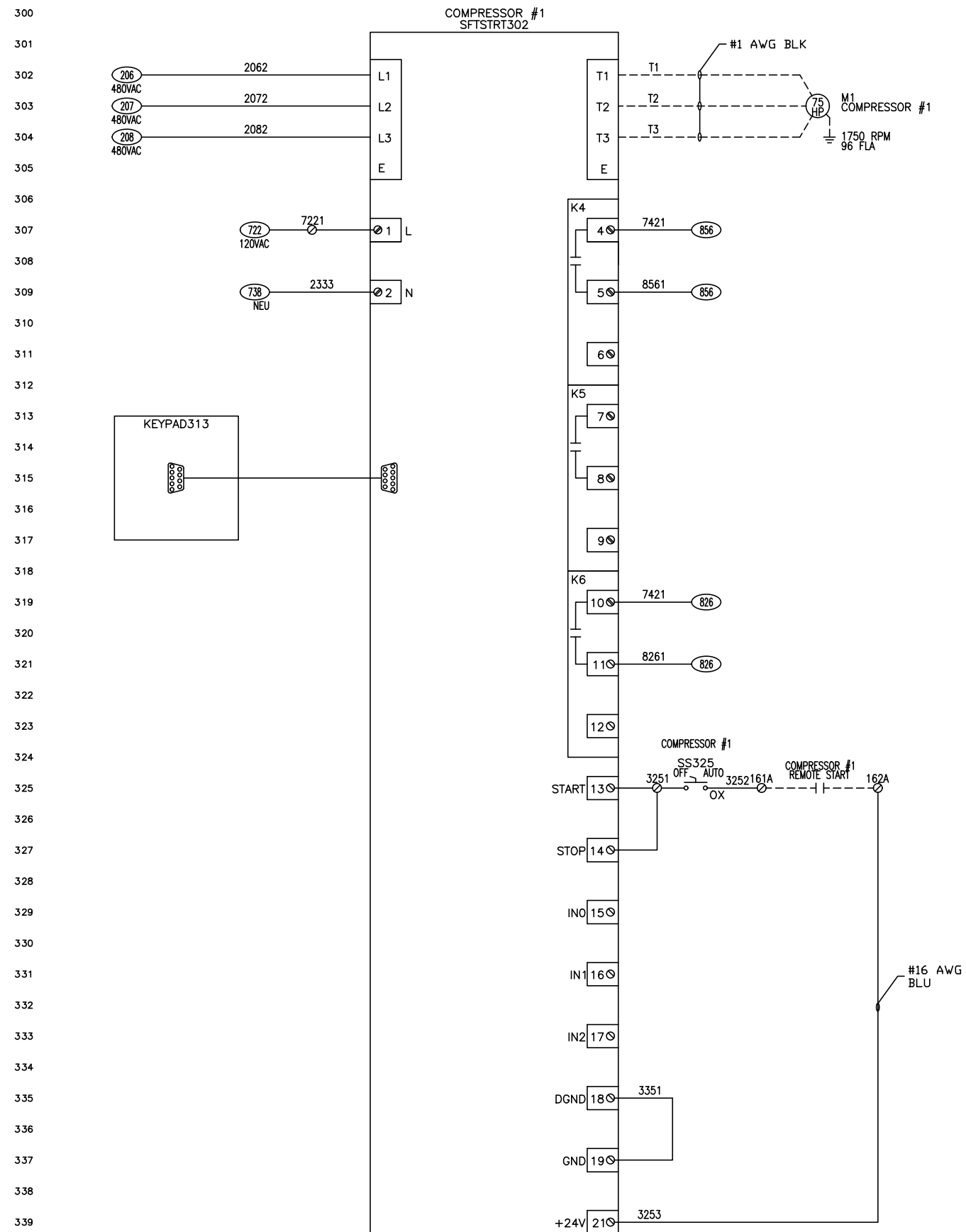
OPTIONS		
	1	TIME DELAY RELAY
	2	FAN & FILTER KIT (105-120F)
	3	HEATER-EXTREME COLD WEATHER (TO-40F)
	4	STACK LIGHT
	5	AC-EXTEND TEMP (TO +140F)
	6	LOCKABLE COMPRESSOR CIRCUIT BREAKER
	7	ETHERNET COMMUNICATION MODULE

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REV.	DESCRIPTION	DATE
REVISIONS		
ANGI ENERGY SYSTEMS 305 W DELAVAN DRIVE JANESVILLE, WI, 53546 PH: 1+(608) 563-2800 www.angienergy.com		
PROJECT TITLE: ANGI75S480 SINGLE COMPRESSOR 75HP, 480V PANEL		
SHEET TITLE: 480VAC DISTRIBUTION		
DATE: 3/8/21	DESIGNED BY: CS	DRAWN BY: CH
JOB NUMBER: 15188E	ACAD FILE NUMBER: SINGLE 75-E02	SHEET NO: 2 of 16

Print Date: 03-08-2021
Drawing Name: SINGLE 75-E02



NOTE:

ALL 480 VAC WIRING INSIDE OF THE
CONTROL PANEL IS TO BE #12 AWG
BLACK WIRE UNLESS NOTED.

ALL 120 VAC WIRING INSIDE OF THE
CONTROL PANEL IS TO BE #16 AWG
RED WIRE UNLESS NOTED. 120 VAC
COMMON WIRE IS TO BE #16 AWG
WHITE WIRE UNLESS NOTED.

ALL 24 VDC WIRING INSIDE OF THE
CONTROL PANEL IS TO BE #16 AWG
BLUE WIRE UNLESS NOTED. 24 VDC
COMMON WIRE IS TO BE #16 AWG
WHITE WIRE W/BUE TRACER UNLESS
NOTED.

[illegible]

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NOTE:

ALL 480 VAC WIRING INSIDE OF THE CONTROL PANEL IS TO BE #12 AWG BLACK WIRE UNLESS NOTED.

ALL 120 VAC WIRING INSIDE OF THE CONTROL PANEL IS TO BE #16 AWG RED WIRE UNLESS NOTED. 120 VAC COMMON WIRE IS TO BE #16 AWG WHITE WIRE UNLESS NOTED.

ALL 24 VDC WIRING INSIDE OF THE CONTROL PANEL IS TO BE #16 AWG BLUE WIRE UNLESS NOTED. 24 VDC COMMON WIRE IS TO BE #16 AWG WHITE WIRE W/BLEU TRACER UNLESS NOTED.

REV.	DESCRIPTION	DATE
REVISIONS		
		
ANGI ENERGY SYSTEMS 305 W DELAVAN DRIVE JANESVILLE, WI, 53546 PH: 1+(608) 563-2800 www.angienergy.com		
PROJECT TITLE: ANGI75S480 SINGLE COMPRESSOR 75HP, 480V PANEL		
SHEET TITLE: SPARE SHEET		
DATE: 3/8/21	DESIGNED BY: CS	DRAWN BY: CH
JOB NUMBER: 15188E	ACAD FILE NUMBER: SINGLE 75-E04	SHEET NO: 4 of 16

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NOTE:

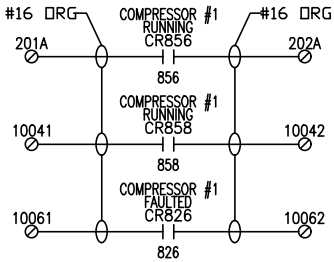
ALL 480 VAC WIRING INSIDE OF THE CONTROL PANEL IS TO BE #12 AWG BLACK WIRE UNLESS NOTED.

ALL 120 VAC WIRING INSIDE OF THE CONTROL PANEL IS TO BE #16 AWG RED WIRE UNLESS NOTED. 120 VAC COMMON WIRE IS TO BE #16 AWG WHITE WIRE UNLESS NOTED.

ALL 24 VDC WIRING INSIDE OF THE CONTROL PANEL IS TO BE #16 AWG BLUE WIRE UNLESS NOTED. 24 VDC COMMON WIRE IS TO BE #16 AWG WHITE WIRE W/BUE TRACER UNLESS NOTED.

REV.	DESCRIPTION	DATE
REVISIONS		
		
ANGI ENERGY SYSTEMS 305 W DELAVAN DRIVE JANESVILLE, WI, 53546 PH: 1+(608) 563-2800 www.angienergy.com		
PROJECT TITLE: ANGI75S480 SINGLE COMPRESSOR 75HP, 480V PANEL		
SHEET TITLE: SPARE SHEET		
DATE: 3/8/21	DESIGNED BY: CS	DRAWN BY: CH
JOB NUMBER: 15188E	ACAD FILE NUMBER: SINGLE 75-E06	SHEET NO: 6 of 16

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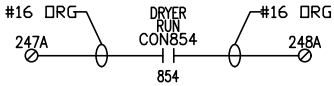
COMPRESSOR #1
RUNNING
INTERLOCK

COMPRESSOR #1
RUNNING
INTERLOCK

COMPRESSOR #1
FAULTED
INTERLOCK

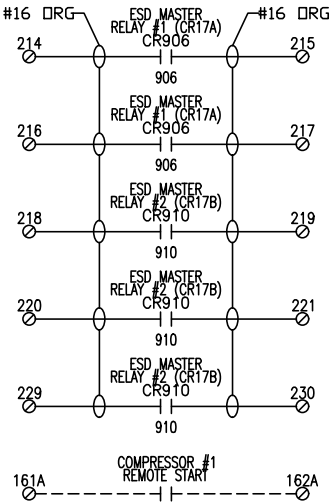


COMPRESSOR #1
FAN RUNNING
INTERLOCK



DRYER
RUNNING
INTERLOCK

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ESD
MASTER RELAY #1
INTERLOCK

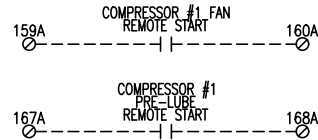
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MASTER RELAY #1
INTERLOCK

ESD
MASTER RELAY #2
INTERLOCK

ESD
MASTER RELAY #2
INTERLOCK

ESD
MASTER RELAY #2
INTERLOCK

COMPRESSOR #1
REMOTE START
INTERLOCK



COMPRESSOR #1
FAN
REMOTE START
INTERLOCK

COMPRESSOR #1
PRE-LUBE
REMOTE START
INTERLOCK



OIL HEATER #1
REMOTE START

NOTE:
ALL 480 VAC WIRING INSIDE OF THE
CONTROL PANEL IS TO BE #12 AWG
BLACK WIRE UNLESS NOTED.

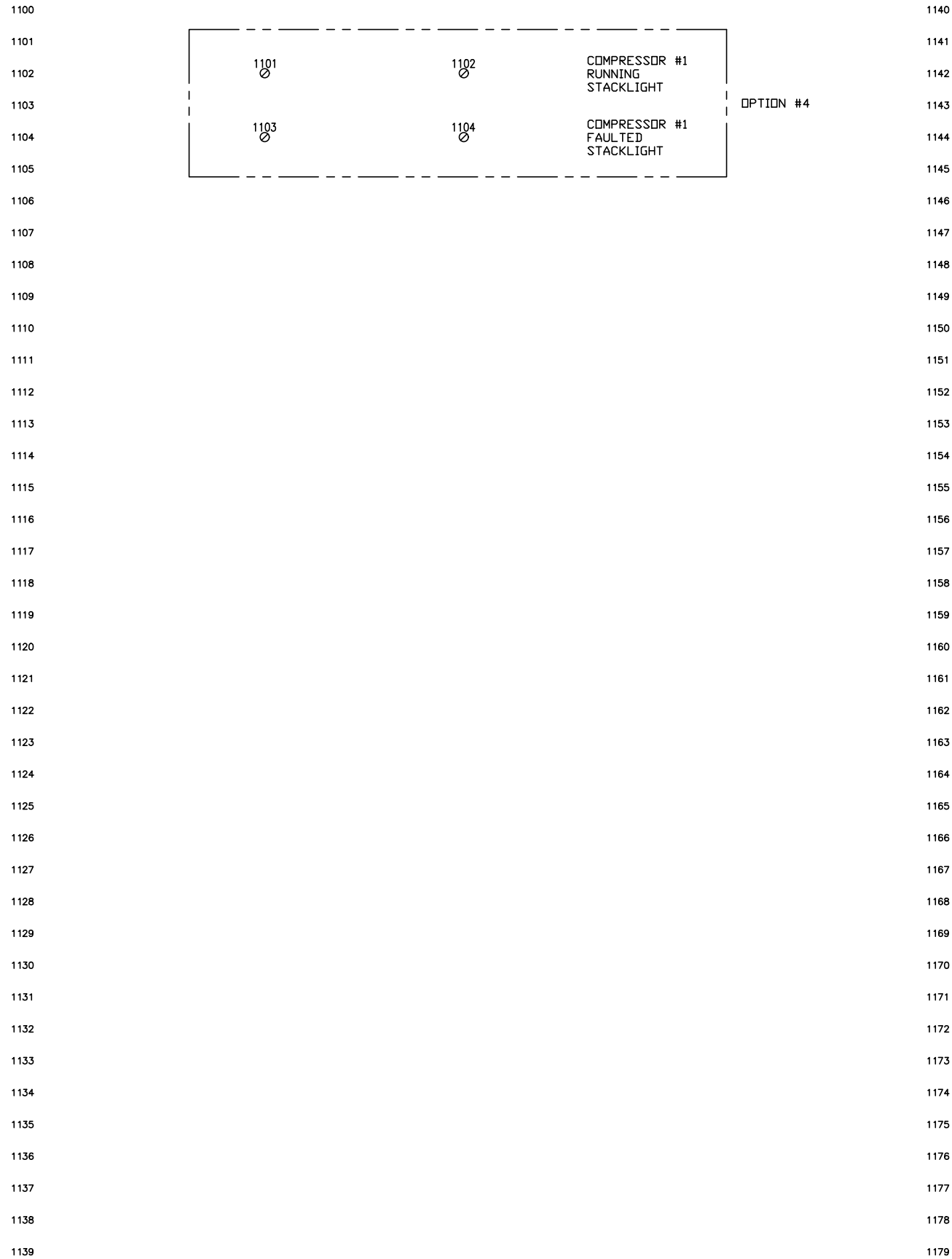
ALL 120 VAC WIRING INSIDE OF THE
CONTROL PANEL IS TO BE #16 AWG
RED WIRE UNLESS NOTED. 120 VAC
COMMON WIRE IS TO BE #16 AWG
WHITE WIRE UNLESS NOTED.

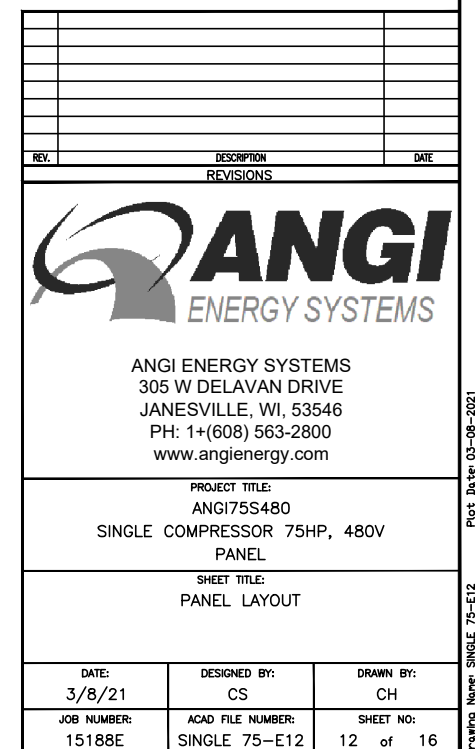
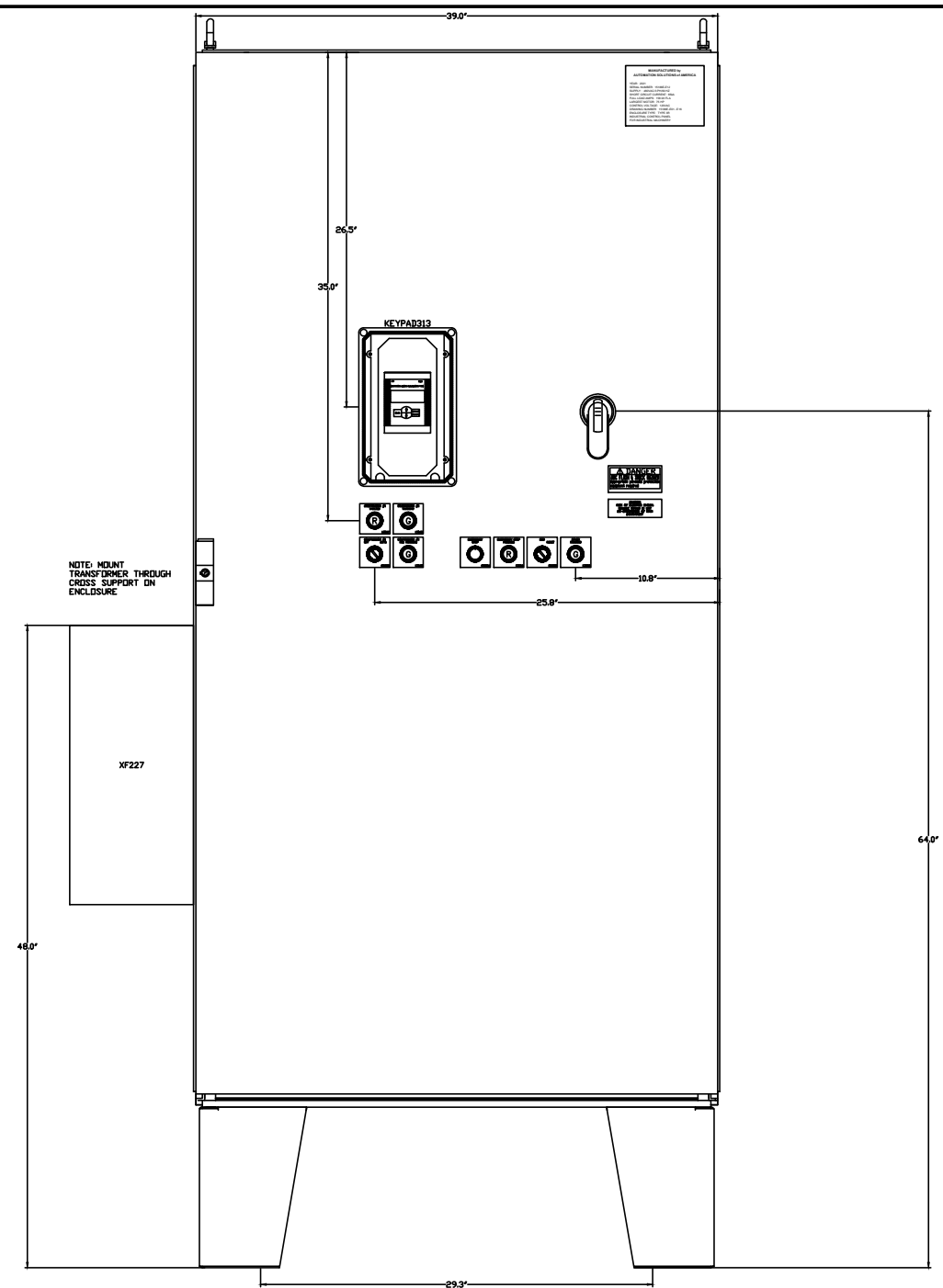
ALL 24 VDC WIRING INSIDE OF THE
CONTROL PANEL IS TO BE #16 AWG
BLUE WIRE UNLESS NOTED. 24 VDC
COMMON WIRE IS TO BE #16 AWG
WHITE WIRE W/BUE TRACER UNLESS
NOTED.

REV.	DESCRIPTION	DATE
REVISIONS		
		
ANGI ENERGY SYSTEMS 305 W DELAVAN DRIVE JANESVILLE, WI, 53546 PH: 1+(608) 563-2800 www.angienergy.com		
PROJECT TITLE: ANGI75S480 SINGLE COMPRESSOR 75HP, 480V PANEL		
SHEET TITLE: INTERLOCKS		
DATE: 3/8/21	DESIGNED BY: CS	DRAWN BY: CH
JOB NUMBER: 15188E	ACAD FILE NUMBER: SINGLE 75-E10	SHEET NO: 10 of 16

ALL 480 VAC WIRING INSIDE OF THE
CONTROL PANEL IS TO BE #12 AWG
BLACK WIRE UNLESS NOTED.

ALL 24 VDC WIRING INSIDE OF THE
CONTROL PANEL IS TO BE #16 AWG
BLUE WIRE UNLESS NOTED. 24 VDC
COMMON WIRE IS TO BE #16 AWG
WHITE WIRE W/BUE TRACER UNLESS
NOTED.

Drawing Name: SINGLE 75-E11 Plot Date: 03-08-2021



MANUFACTURED by
AUTOMATION SOLUTIONS of AMERICA

YEAR: 2021
SERIAL NUMBER: 15188E-E12
SUPPLY : 480VAC/3 PH/60 HZ
SHORT CIRCUIT CURRENT: 65kA
FULL LOAD AMPS: 158.93 FLA
LARGEST MOTOR: 75 HP
CONTROL VOLTAGE: 120VAC
DRAWING NUMBER: 15188E-E01...E16
ENCLOSURE TYPE: TYPE 3R
INDUSTRIAL CONTROL PANEL
FOR INDUSTRIAL MACHINERY

COMPRESSOR #1
FAULTED



LT827

COMPRESSOR #1
RUNNING



LT860

COMPRESSOR #1
OFF



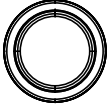
SS325

COMPRESSOR #1
FAN RUNNING



LT843

EMERGENCY
STOP



PB904

EMERGENCY STOP
PRESSED



LT904

ESD
RESET



SS906

DRYER
RUNNING

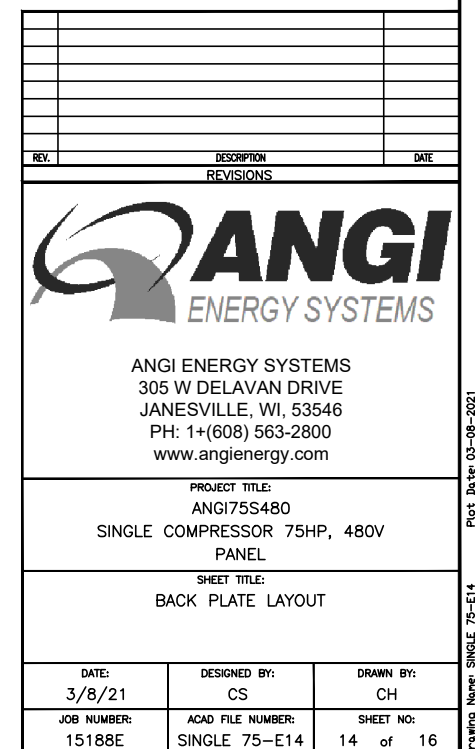
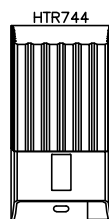


LT855

 **DANGER**
ARC FLASH & SHOCK HAZARD
Appropriate personal protection
equipment required

CAUTION
RISK OF ELECTRIC SHOCK.
ORANGE WIRING IS NOT
DE-ENERGIZED BY MAIN
DISCONNECT

REV.	DESCRIPTION	DATE
REVISIONS		
		
ANGI ENERGY SYSTEMS 305 W DELAVAN DRIVE JANESVILLE, WI, 53546 PH: 1+(608) 563-2800 www.angienergy.com		
PROJECT TITLE: ANGI75S480 SINGLE COMPRESSOR 75HP, 480V PANEL		
SHEET TITLE: PANEL DETAILS		
DATE: 3/8/21	DESIGNED BY: CS	DRAWN BY: CH
JOB NUMBER: 15188E	ACAD FILE NUMBER: SINGLE 75-E13	SHEET NO: 13 of 16



BOTTOM

UPS JUMPER
SECTION

Drawing Name: SINGLE 75-E15 Plot Date: 03-08-2021

BILL OF MATERIAL					
ITEM	QUANTITY	MANUFACTURER	PART NUMBER	DESCRIPTION	TAG
1	1	Rittal	8006548	Rittal Solid door for control cabinet 79x39x24	---
2	1	Rittal	8106235	Rittal Side Walls	---
	1	Rittal	9963524	Floor Stand Kit	---
	1	Rittal	4593000	TS Accy Fixture	---
3	1	Rittal	8800130	TS Support Strips Inner Mounting Level for 24" Deep Enclosure	---
4	2	Rittal	8612160	Transformer Support	---
5	2	Rittal	4599000	Horizontal Support Strips for Heater Mounting	---
6	1	Rittal	8800130	Vertical Support Strips for Heater Mounting	---
7	1	Rittal	3105430	TOP THERM ENCLOSURE HEATER W/ FAN 800WAT	HTR744
8	1	Rittal	3110000	THERMOSTAT 24-230V AC/DC	TAS744
9	2	ABB	SU201M-K10	UL489 MCB 1P K 10A 480/277 (Brkr for Heater+OPTIONAL Heater)	CB744, CB756
10	0	ABB	SU201M-K6	UL489 MCB 1P K 10A 480/277 (Breaker for Fan) (OPTIONAL)	
11	1	Phoenix	2920272	VAL-MS 750/30/3+0-FM	TVSS204
12	6	Erico	534514	Isulated Braided Conductor "Main to Circuit Breaker & Circuit Breaker to PSTX"	---
13	1	ABB	XT4HU3200AFF000XXX	200 AMP Main Breaker	CB202
14	1	ABB	KXT4HTC-3	Terminal Cover for T4	CB202
15	1	ABB	KXT4CU-3PC	Lug Kit for XT4	CB202
16	1	ABB	KXTCRHEBFP	Variable Depth Mech XT4	CB202
17	1	ABB	OXp10X500	PSTL Shaft 16.9"	CB202
18	1	ABB	OHB125J10	PSTL HDL	CB202
19	1	ABB	AF116-30-11-13	75hp Contactor, 480V, 100-250VAC/DC Coil	CON908
20	1	ABB	XT4HU3150AFF000XXX	150 AMP "Main Breaker to PSTX"	CB206
21	1	ABB	KXT4HTC-3	Terminal Cover for XT4	CB206
22	1	ABB	PSTX105-600-70/ANGI	75 HP Softstarter	SFTSTRT302
23	1	Vynckier	A31-DTCOVERKIT	UV, 3R Cover for Keypad	---
24	1	Sprecher & Schuh	CL7-9-10-120-AS2.5A-A10*	1 HP MANUAL MOTOR STARTER FOR FAN	DS342, CON842
25	1	Mersen	US6J3	ULTRASAFE FUSE HOLDERS FOR CLASS J 60AMP	FU242
26	3	Mersen	AJT60	AMP-TRAP 2000 CLASS J 60AMP Dryer	FU242
27	1	Sprecher & Schuh	CA7-72-10-120	Dryer contactor	CON854
28	3	Sprecher & Schuh	CA7-PV-20	AUX CONTACT	CON842, CON844, CON854
29	1	ABB	XT1HU3050AFF000XXX	BKR T2H 50A 3P T/M UL Primary of transformer 65 Kaic	CB226
30	2	ABB	KXT1CU-3PC	LUG KIT T2 1/0-14AWG 3 LUGS	CB226
31	1	Sola HD	H55F10AS/ANGI	10 KVA Control Transformer	XF227
32	1	ABB	S801U-K100	100 amp Circuit breaker single phase 120 VAC (xfmer Secondary)	CB231
33	1	ABB	SU201M-K20	20 amp Circuit breaker single phase 120 VAC (xfmer Secondary)	CB233
34	15	ABB	SU201M-K15	15 amp Circuit breaker single phase 120 VAC	CB702, CB708, CB710, CB712, CB714, CB716, CB718, CB720, CB760, CB768, CB770, CB772, CB774, CB776, CB778
35	1	ABB	SU201M-K20	20 amp Circuit breaker single phase 120 VAC	CB762
36	2	ABB	SU201M-K5	5 amp circuit breaker, single phase 120 vac for control power	CB722, CB750
37	1	ABB	SU201M-K3	3 amp circuit breaker, single phase 120 vac	CB724
38	1	ABB	SU201M-K2	2 amp circuit breaker, single phase 120 vac	CB748
39	1	ABB	MPEP4-10R	Emergency Stop 40MM Pull Release	PB904
40	1	ABB	M2SSK3-60110	Key Operated Selector Switch	SS906
41	1	ABB	MCBH-11	1 NO, 1 NC with holder	SS906
42	2	ABB	NF40E-13	RELAY,4NO,100-250V50/60HZ-DC	CR906, CR910
43	2	ABB	CA5-01	AUX CONTACT BLOCK 1NC FRONT MOUNT SINGLE	CR906, CR910
44	3	Idec	RH2B-ULAC110-120V/ANGI	Idec RELAY (extra needed forSoft starter run light)	CR826, CR856, CR858
45	3	Idec	SH2B-05/ANGI	Idec RELAY BASE	CR826, CR856, CR858
46	1	Phoenix	2907918	Phoenix, PLT-SEC-T3-120-FM-UT, PLC power	SU702
47	4	ABB	CL2-513G	COMPACT PILOT Green	LT843, LT845, LT855, LT860
48	2	ABB	CL2-513R	COMPACT PILOT Red	LT827, LT904
49	1	ABB	C2SS2-10B-10	Two position short handle, non illuminated (1 NO) Auto manual	SS325
50	150	Phoenix	3044636	UTTB 2,5 DOUBLE STACK TERMINAL BLOCK	---
51	8	Phoenix	3047293	End Cover	---
52	20	Phoenix	3022276	END CLAMP	---
53	7	Phoenix	3030213	10 Pole Jumpers for UTTB 2,5	---
54	3	Phoenix	0801733	DIN 3 pre-punched Rail	---
55	5	Phoenix	3240263	CD 60X100 Wire Duct	---
56	44	Phoenix	3030161	2 Pole Jumpers for UTTB 2,5	---
57	32	Phoenix	3044814	UTTB 4 DOUBLE STACK TERMINAL BLOCK	---
58	6	Phoenix	3030271	10 Pole Jumpers for UTTB 4	---
59	9	ABB	AF09-30-10-13	ABB contactors for Start stop circuits	CR802, CR808, CR810, CR812, CR814, CR816, CR818, CR820, CR822
60	19	Innovative Automation	12859-009	Surge Suppressor	ALL RELAY COILS
61	7	Mersen	FSPDB3A	Distribution block for Transformer connections	PDB220, PDB232, PDB232A, PDB234, PDB234A
62	1	ABB	SU201M-K10	UL489 MCB 1P K 10A 480/277 (Breaker for Interlock and ESD)	CB742
63	1	Mersen	61038J	100A FUSE HOLDER	FU218
64	3	Mersen	DFC-3	SAFETY COVER 100A J FUSE	FU218
65	3	Mersen	AJT100	100A J FUSE	FU218
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REV.	DESCRIPTION	DATE
REVISIONS		
 ANGI ENERGY SYSTEMS 305 W DELAVAN DRIVE JANESVILLE, WI, 53546 PH: 1+(608) 563-2800 www.angienergy.com		
PROJECT TITLE: ANGI75S480 SINGLE COMPRESSOR 75HP, 480V PANEL		
SHEET TITLE: BILL OF MATERIAL		
DATE: 3/8/21	DESIGNED BY: CS	DRAWN BY: CH
JOB NUMBER: 15188E	ACAD FILE NUMBER: SINGLE 75--E16	SHEET NO: 16 of 16