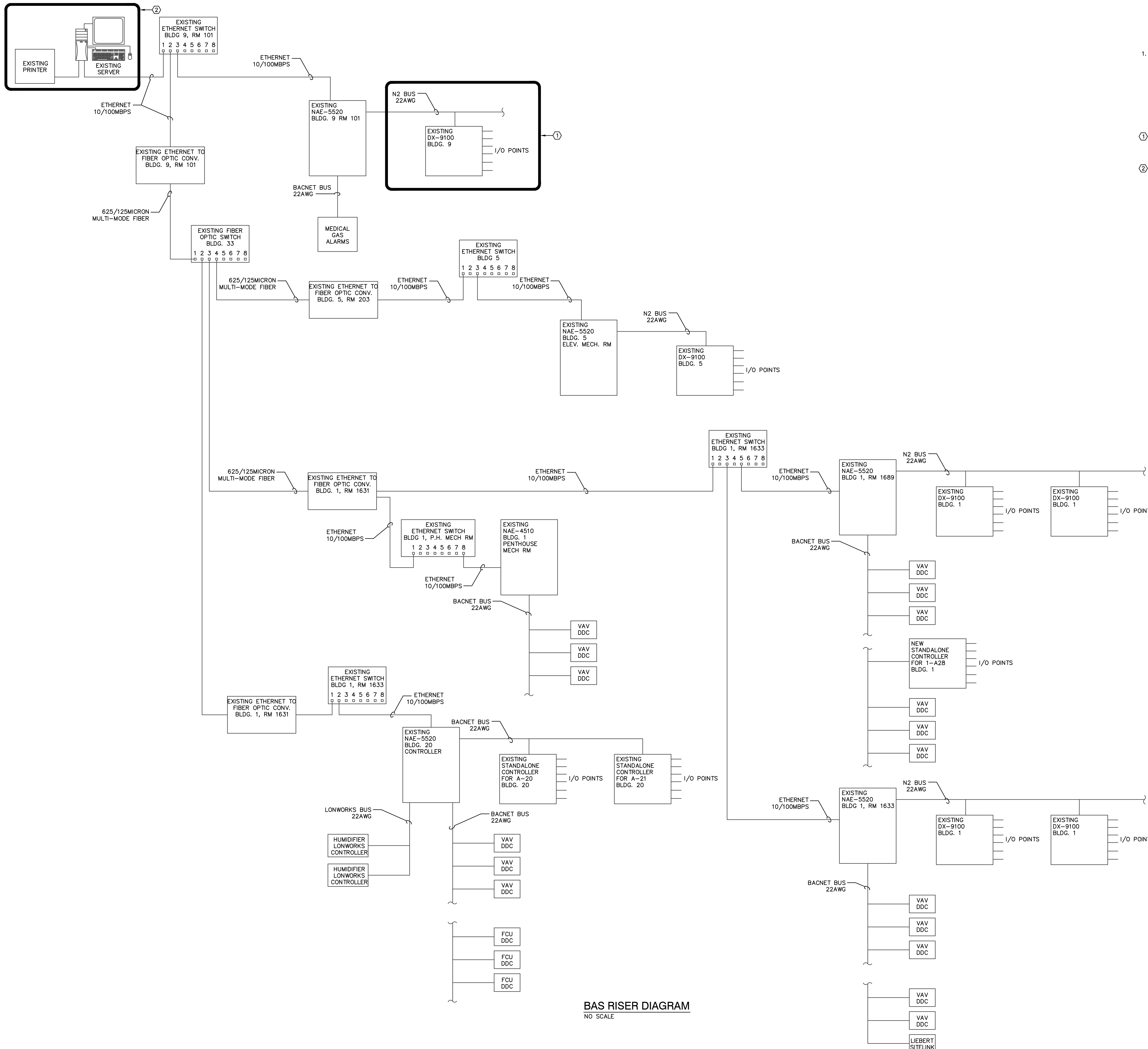


three inches = one foot
one and one-half inch = one foot
one inch = one foot
three-quarters inch = one foot
one-half inch = one foot
three-eighths inch = one foot
one-quarter inch = one foot
one-eighth inch = one foot



BAS RISER DIAGRAM
NO SCALE

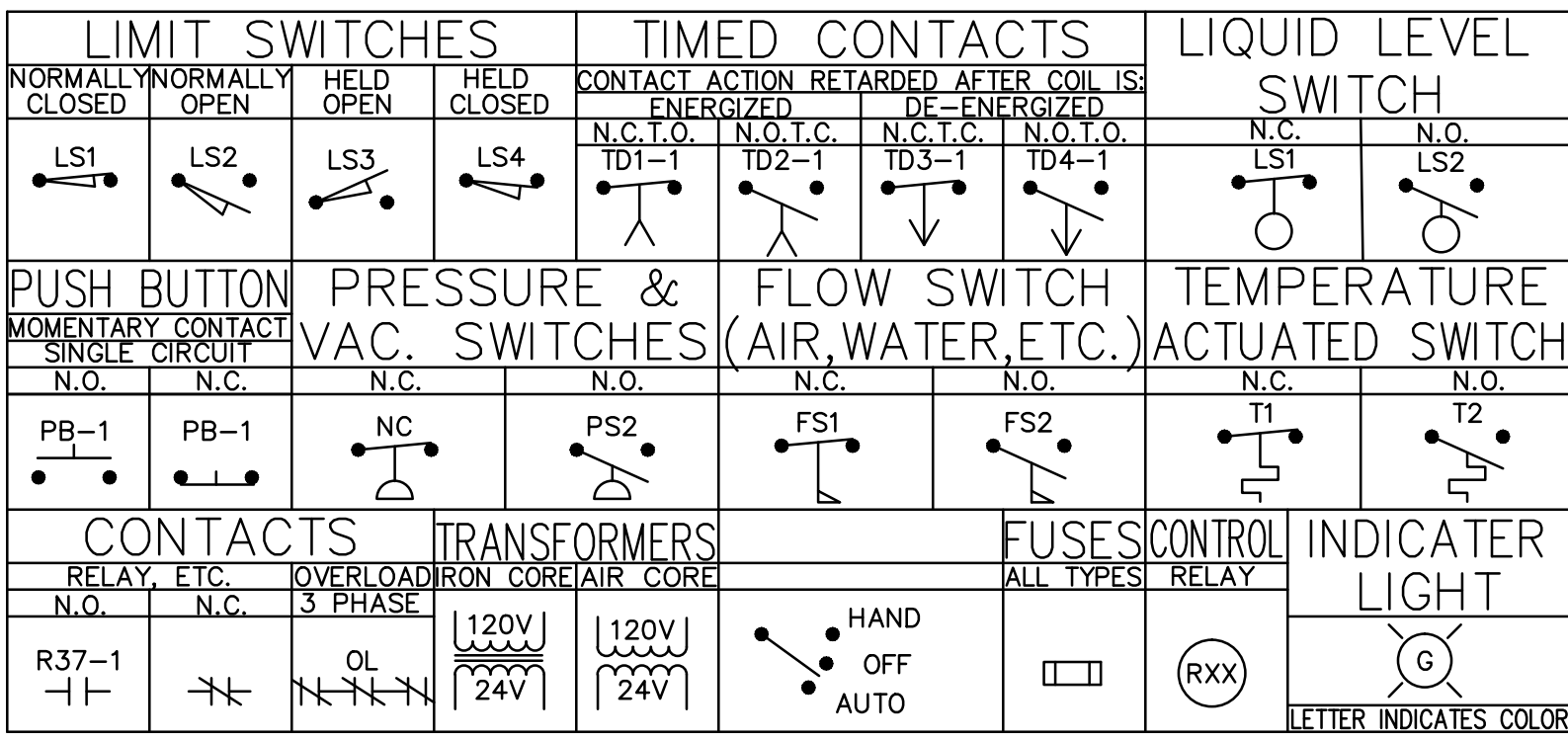
GENERAL NOTES

- EXISTING CONDUIT, WIRING, PNEUMATIC TUBING, AND DEVICES THAT WOULD OTHERWISE BE ABANDONED ON THIS PROJECT SHALL BE REMOVED BY THE CONTRACTOR.
- UNDER THE BASE BID: REMOVE ALL EXISTING JOHNSON CONTROLS DDC CONTROLLERS SERVING THE CHILLER PLANT AND INSTALL NEW BACNET CONTROLLERS FOR ALL NEW AND EXISTING POINTS.
- UNDER DEDUCTIVE ALTERNATE BID NO. 4: REMOVE EXISTING ENGINEERING CONTROL CENTER (ECC) AND PROVIDE AND INSTALL NEW ECC HARDWARE AND SOFTWARE, SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

KEYNOTES

ABBREVIATIONS

GENERAL ABBREVIATIONS	DESIGNATION
A	AMBER
BAS	BUILDING AUTOMATION SYSTEM
C	COMMON
CB	CIRCUIT BREAKER
CS	CONDUCTIVITY SENSOR
DDC	DIRECT DIGITAL CONTROLLER
DPS	DIFFERENTIAL PRESSURE SWITCH
DPT	DIFFERENTIAL PRESSURE TRANSMITTER
DS	DISCONNECT SWITCH
EMCS	ENERGY MANAGEMENT AND CONTROL SYSTEM
EP	ELECTRIC TO PNEUMATIC VALVE
EPT	ELECTRIC TO PNEUMATIC TRANSDUCER
ES	END SWITCH
EXH	EXHAUST PORT
FM	FLOW METER
FS	FLOW SWITCH
G	GREEN
HOA	HAND-OFF-AUTO SWITCH
HPS	HIGH PRESSURE SWITCH
IS	CURRENT SWITCH
LPS	LOW PRESSURE SWITCH
LS	LIMIT SWITCH OR LEVEL SWITCH
MD	MOTORIZED CONTROL DAMPER
MS	MOTOR STARTER
MV	MOTORIZED CONTROL VALVE
NC	NORMALLY CLOSED
NCTC	NORMALLY CLOSED TIMED CLOSED
NCTO	NORMALLY CLOSED TIMED OPEN
NO	NORMALLY OPEN
NOTO	NORMALLY OPEN TIMED CLOSED
NOTC	NORMALLY OPEN TIMED OPEN
OA	OUTSIDE AIR
OL	OVERLOAD
PB	PUSHBUTTON SWITCH
PS	PRESSURE SWITCH
P/T	PRESSURE/TEMPERATURE PORT
R	RED OR RELAY
RA	RETURN AIR
S	SWITCH
SA	SUPPLY AIR
SD	SMOKE DETECTOR
SP	SETPOINT
STR	MOTOR STARTER
SV	SOLENOID VALVE
TC	TEMPERATURE CONTROLLER
TD	TIME DELAY
TM	TURBINE METER
VFD	VARIABLE FREQUENCY DRIVE
VS	VIBRATION SWITCH
BAS/EMCS ABBREVIATIONS	INPUT/OUTPUT DESIGNATION
2P	TWO POSITION CONTROL
A	ALARM CONTACT SIGNAL
C	CONDUCTIVITY INDICATION
CO	CARBON MONOXIDE INDICATION
CO2	CARBON DIOXIDE INDICATION
F	FLOW INDICATION
FA	FAULT ALARM
FR	FORWARD/REVERSE RELAY
FT	FLOW TOTALIZATION (PULSE)
H	HUMIDITY INDICATION
I	CURRENT INDICATION
KW	POWER
L	LEVEL INDICATION
O	ON-OFF STATUS
P	PRESSURE INDICATION
PC	POSITION CONTROL (MODULATING)
R	RESET SIGNAL
RV	ROTATIONAL VELOCITY (SPEED)
S	START/STOP
SC	SPEED CONTROL
T	TEMPERATURE INDICATION
WH	WATT-HOUR METER



Revisions

Date

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Drawing Title
MECHANICAL CONTROLS

Project Title
REPLACEMENT OF ABSORPTION CHILLER

Project Number
VA259-12-C-0219
Building Number
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Drawing Number
H8
Dwg. 3 of 16

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