



CITY OF TAMPA
 CONTRACT ADMINISTRATION
 DEPARTMENT
 PLANNING AND DESIGN DIVISION
 105 E. JACKSON STREET 4 NORTH
 TAMPA, FLORIDA 33602
 p: 813. 274. 8456 - f: 813. 274. 8080
 url: www.tampagov.net

James E. Jackson, Jr. AIA, NOMA
 City Architect
 Edward D. Rice, AIA
 Project Architect
 Kevin L. Henika, AIA
 Project Architect
 Thomas A. Hester, Sr., AIA, NOMA
 Project Architect
 David R. Pagitt
 Supervisor, Architectural Drafting
 Kinsey C. Tillman
 Drafting Technician
 Jerry P. Sanders
 Drafting Technician
 Byron K. Thomas, LEED AP
 Drafting Technician

MEP CONSULTANT
GRINER ENGINEERING, INC.
 1628 1st. AVENUE NORTH
 ST. PETERSBURG, FL 33713

STRUCTURAL CONSULTANT
**BILLER REINHART
 STRUCTURAL GROUP, INC.**
 4014 GUNN HWY. SUITE 240
 TAMPA, FL 33713

CIVIL CONSULTANT
B M CIVIL LLC
 12315 WYCLIFF PLACE
 TAMPA, FL 33626

LANDSCAPE CONSULTANT
DAVID CONNER & ASSOCIATES
 1509 W. SWANN AVENUE SUITE 255
 TAMPA, FL 33606

FIRE STATION 23
 20770 TROUT CREEK DR.
 TAMPA, FL 33647

DPW FILE NUMBER

DPW NUMBER
 17-C-00037

ISSUE DATE
 07-28-2017

DRAWN BY

REVISIONS
 △
 △
 △

SEAL

Joseph H. Griner III, P.E. FL. 39491

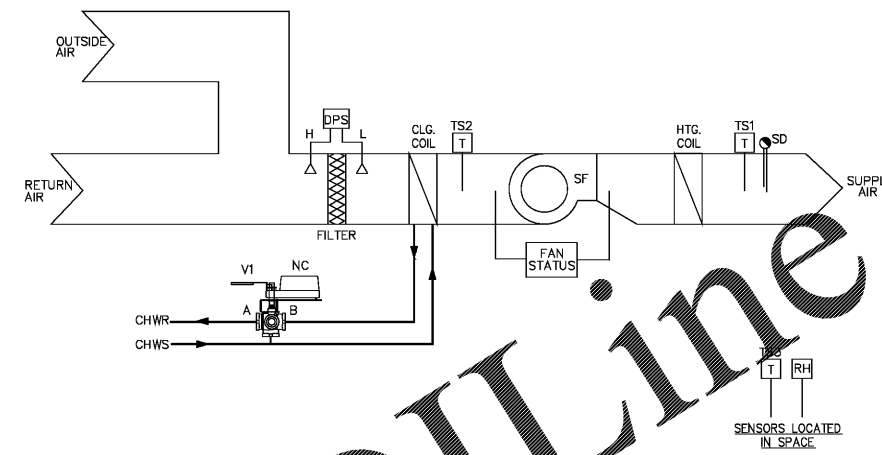
SCALE: N.T.S

MECHANICAL DETAILS

SHEET NUMBER

M-6.3

X OF X



	ANALOG		DIGITAL		SYSTEM POINTS
	INPUT	OUTPUT	INPUT	OUTPUT	
TEMPERATURE					
HUMIDITY					
CARBON DIOXIDE LEVEL					
FILTER STATIC PRESSURE DIFFERENTIAL					
SETPPOINT ADJUSTMENT					
VALVE POSITION					
STATUS					
ENABLED					
DAMPER POSITION					
ALARM FAILURE					
HIGH/LOW LIMIT					
OUTSIDE AIR DAMPER				X	X X
FILTERS		X			X X
COOLING COIL (TS2)	X		X		X X
SUPPLY FAN				X	X X
HEATING COIL (TS1)	X		X		X X
SMOKE DETECTOR					X
CONDITIONED SPACE (TS3)	X X		X		X X

SEQUENCE OF OPERATION:

THE AIR HANDLER SHALL BE COMMANDED TO START/STOP BASED ON AN 7-DAY TIME SCHEDULE OR TEMPERATURE/HUMIDITY OVERRIDE.

OCCUPIED MODE:

UPON VERIFICATION OF SUPPLY FAN STATUS THE OUTSIDE AIR DAMPER (D1) SHALL OPEN TO THE SETPOINT POSITION.

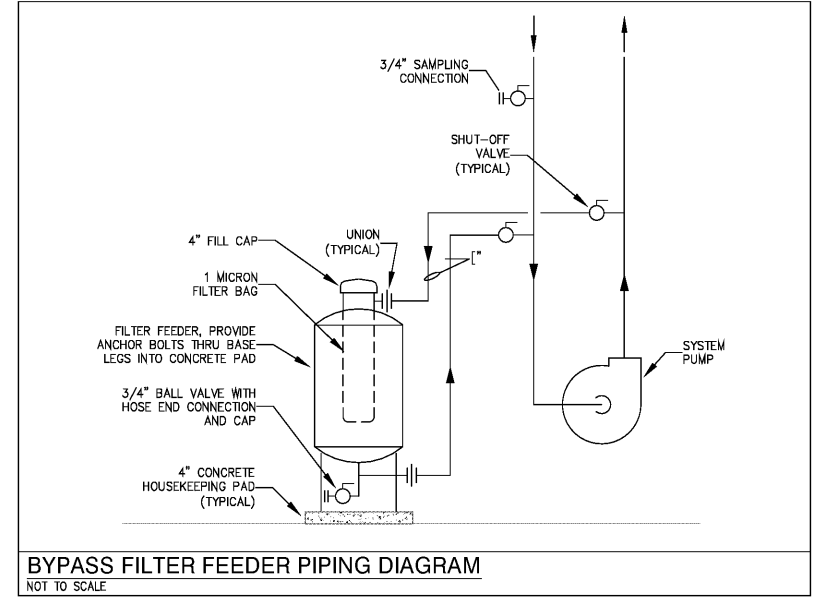
UPON VERIFICATION OF SUPPLY FAN STATUS THE CHILLED WATER VALVE (V1) SHALL MODULATE TOWARD THE OPEN POSITION TO MAINTAIN A SPACE TEMPERATURE SETPOINT (TS3) OF 75 DEG. F (ADJUSTABLE). WHEN SPACE TEMPERATURE SETPOINT (TS3) DROPS BELOW 75 DEG. F. THE CHILLED WATER VALVE (V1) SHALL BE COMMANDED TO MODULATE TOWARDS THE CLOSED POSITION TO MAINTAIN A SPACE TEMPERATURE SETPOINT (TS3) OF 75 DEG. F (ADJUSTABLE). UPON A FURTHER DROP IN SPACE TEMPERATURE THE ELECTRIC HEATING ELEMENT SHALL BE ACTIVATED TO MAINTAIN A SPACE HEATING TEMPERATURE SETPOINT (TS3) OF 70 DEG. F. (ADJUSTABLE).

HUMIDITY OVERRIDE MODE:

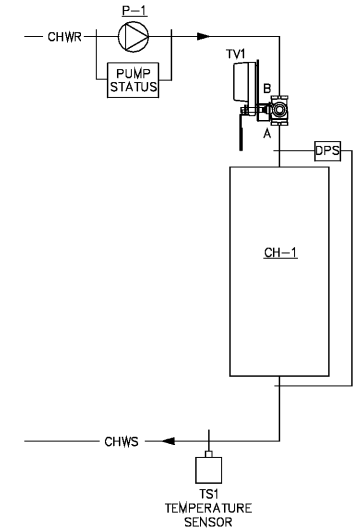
UPON A RISE IN SPACE HUMIDITY SETPOINT ABOVE 60% RH THE CHILLED WATER VALVE (V1) SHALL MODULATE TOWARD THE OPEN POSITION TO MAINTAIN A TEMPERATURE SETPOINT (TS2) OF 55 DEG. F (ADJUSTABLE) AND THE ELECTRIC HEATING ELEMENT SHALL BE ACTIVATED TO MAINTAIN A TEMPERATURE SETPOINT (TS1) OF 75 DEG. F. (ADJUSTABLE).

UPON SATISFYING THE RETURN AIR HUMIDITY SETPOINT OF 80% RH (ADJUSTABLE) THE HUMIDITY OVERRIDE MODE SHALL END AND SHALL NOT BE ALLOWED TO RESTART FOR 15 MINUTES (ADJUSTABLE).

AHU-1 & 3 AIR HANDLER SCHEMATIC
 N.T.S.



BYPASS FILTER FEEDER PIPING DIAGRAM
 NOT TO SCALE



	ANALOG		DIGITAL		SYSTEM POINTS
	INPUT	OUTPUT	INPUT	OUTPUT	
TEMPERATURE					
PRESSURE					
SETPPOINT ADJUSTMENT					
ENABLED					
ALARM FAILURE					
HIGH/LOW LIMIT					
CHILLED WATER SUPPLY	X	X			X
CHILLED WATER RETURN	X	X			X
PRIMARY PUMPS			X	X	X X
CHILLERS	X		X	X	X X

SEQUENCE OF OPERATION:

THE CHILLED WATER PUMP SHALL BE COMMANDED TO START/STOP BASED ON AN 7-DAY TIME SCHEDULE, OR UNOCCUPIED MODE TEMPERATURE/HUMIDITY OVERRIDE.

UPON VERIFICATION OF PUMP STATUS THE CHILLER SHALL BE COMMANDED TO OPERATE AND MAINTAIN A LEAVING CHILLED WATER TEMPERATURE OF 44 DEG. F.

CHILLER PLANT CONTROL SCHEMATIC
 N.T.S.

Order Plans

GRINER GRINER ENGINEERING, INC. 1628 First Avenue North St. Petersburg, Florida 33713 Phone: (727)-822-2335 Fax: (727)-821-3361 Certificate of Authorization #3173	Date	06-15-2017
	Drawn	JL
	Designed	JL
	EOR	JHG
	Job no.	17049