

DAMIEN W. SERAUSKAS, P.E.
PROFESSIONAL ENGINEERING SERVICES
 15 CYPRESS POINT LANE NEW ORLEANS, LA 70131
 VOICE: (504)866-2600 FAX: (504)218-8480

CHILLED WATER AIR HANDLING UNIT SCHEDULE

TAG	TOT CFM	MAX OA CFM	ESP	SERVES	COOLING COIL						ELECTRIC HEATING SECTION			ELEC VOLT/PH	MOTOR HP	REMARKS		
					GPM	TOT MBH	ENT H2O °F	LVG H2O °F	ENT AIR °F (DB)	ENT AIR °F (WB)	LVG AIR °F (DB)	LVG AIR °F (WB)	KW				ENT TEMP	LVG TEMP
AHU-1	2000	900	0.60"	CAGES	24.0	120.0	44	54	87.1	73.9	54.6	54.6	25.0	50.0	90.0	460/3	2.0	--
AHU-2	6000	1200	2.0"	1ST/2ND FLRS	56.0	280.0	44	54	83.6	69.4	54.2	53.8	7.5	36.0	90.0	460/3	7.5	--

NOTE: UNIT SHALL HAVE THE FOLLOWING FEATURES:
 DOUBLE WALL CONSTRUCTION WITH FIBERGLASS INSULATED PANEL SYSTEM, DOUBLE-SLOPED IAQ DRAIN PAN, DRAW-THROUGH CONFIGURATION, HIGH-EFFICIENCY INVERTER-DUTY FAN MOTORS, SINGLE-POINT POWER CONNECTIONS, INTEGRATED (FACTORY-MOUNTED) DDC-CONTROLS, SENSORS, AND DEVICES.
 AHU-1 HEATING SECTION SHALL BE EXTERNALLY-MOUNTED DUCT HEATER. AHU-2 HEATING SECTION IS DUCT MOUNTED HEATER IN OA DUCTWORK.

MECHANICAL LEGEND

ABBREVIATIONS	SYMBOLS
ABV ABOVE FINISHED FLOOR	FIRE DAMPER
AFF ABOVE FINISHED FLOOR	ACCESS PANEL
AIR MEDICAL OR COMPRESSED AIR	SPIN-IN DUCT FITTING
BDD BACKDRAFT DAMPER	FLEX RUNOUT FROM SPIN-IN FITTING
BFP BACKFLOW PREVENTER	CEILING DIFFUSER
BLW BELOW	RETURN AIR GRILL
BOD BOTTOM OF DUCT	45 DEG BRANCH TAKEOFF WITH DAMPER
BOP BOTTOM OF PIPE	PIPE DOWN
CAP CAPACITY	PIPE UP
CD CONDENSER WATER RETURN	ISOLATION VALVE (PIPING)
CDR CONDENSER WATER SUPPLY	BACKDRAFT DAMPER
CDS CEILING DIFFUSER	MOTORIZED OBVD DAMPER
CFM CUBIC FEET PER MINUTE	THERMOSTAT / TEMPERATURE SENSOR
CLG CEILING OR COOLING (CONTEXT)	HUMIDITY SENSOR
CO CLEANOUT	CARBON DIOXIDE SENSOR
CO CONTINUOUS OR CONTINUATION (CONTEXT)	
CM DOMESTIC COLD WATER	
CNR CHILLED WATER RETURN	
CWS CHILLED WATER SUPPLY	
DB DRY BULB (TEMP)	
DEG DEGREES	
DN DOWN	
DWG DRAWING	
ELEC ELECTRIC OR ELECTRICAL (CONTEXT)	
ESP EXTERNAL STATIC PRESSURE	
ENT ENTERING WATER TEMP	
EXIST EXISTING	
EXST EXISTING	
FD FLOOR DRAIN (PLUMBING); FIRE DAMPER (HVAC)	
FDC FIRE DEPARTMENT CONNECTION	
FFM FILTER RETURN GRILL	
FRG FEET PER MINUTE	
FT FEET	
GPM GALLONS PER MINUTE	
HB HOSE BIBB	
HP HORSEPOWER	
HTG HEATING	
HUB HUB DRAIN	
HW DOMESTIC HOT WATER	
HWR DOMESTIC HOT WATER RETURN	
HZ HERTZ (FREQUENCY)	
IN INCHES	
INCL INCLUDES, INCLUDING (CONTEXT)	
KM KILOWATT	
LAT LEAVING AIR TEMP	
LWT LEAVING WATER TEMP	
MBH THOUSAND BTUH	
MECH MECHANICAL	
MFR MANUFACTURER	
MIN MINUTE(S)	
MTD MOUNTED	
NTS NOT TO SCALE	
O2 OXYGEN	
PD PRESSURE DROP	
PLBG PLUMBING	
PSI POUNDS PER SQUARE INCH (PRESSURE)	
PSIG PSI (GAUGE PRESSURE)	
RD ROOF DRAIN	
RG REQUIRED	
REGD RETURN GRILL	
RPM REVOLUTIONS PER MINUTE	
SEC SECONDS	
SENS SENSIBLE	
SP STATIC PRESSURE	
SG FT SQUARE FOOT/FEET (AREA)	
SWG SIDEWALL GRILL / REGISTER	
TEMP TEMPERATURE	
THRU THROUGH	
TYP TYPICAL	
VAC VACUUM	
VERT VERTICAL	
VTR VENT THROUGH ROOF	
W/ WITH	
W/O WITHOUT	
WB WET BULB (TEMP)	
WG WATER GAUGE (PRESSURE)	
WPD WATER PRESSURE DROP	
WSPH WATER SOURCE HEAT PUMP	

AIR COOLED CHILLER SCHEDULE

TAG	NOM TONS	EVAPORATOR					ELEC VOLT/PH	UNIT MCA	RECC MOP	EER	EER NPLV	REFRIG	MODEL #	WEIGHTS (LBS) RIGGING / OPER	REMARKS	
		GPM	ENT H2O °F	ENT H2O °F	# PASSES	FOUL FCTR										MAX PD
CH-1	40	91.4	54.0	44.0	--	0.00010	10.0	460/3	91.8	110.0	10.0	14.3	410A	CGAM040	3359 / 3377	SEE NOTES

NOTES:
 1. UNITS SHALL BE MOUNTED AT GRADE ON A STRUCTURAL SLAB.
 2. UNIT INCLUDES A-T-L STARTER, AND INTEGRATED VPF (VARIABLE PRIMARY FLOW) DDC CONTROLS.
 3. UNIT SHALL COME FULLY CHARGED AND FACTORY RUN-TESTED PRIOR TO DELIVERY AND INSTALLATION.

PUMP SCHEDULE

TAG	GPM	HEAD FT	SERVES	ELEC VOLT/PH	MOTOR HP	REMARKS
P-1	91.2	40	CHILLED WATER	460/3	2.0	B&G SERIES 1510-1-1/2AC, HIGH EFFICIENCY, INVERTER DUTY, TEFC MOTOR
P-2	91.2	40	CHILLED WATER	460/3	2.0	B&G SERIES 1510-1-1/2AC, HIGH EFFICIENCY, INVERTER DUTY, TEFC MOTOR
REC-1	5.0	20	DOMESTIC HW RECIRC	120/1	1/12	B&G SERIES PL-30B, BRONZE CONSTRUCTION, MAINTENANCE-FREE MOTOR

NOTES:
 1. P-1 / P-2 - PROVIDE WITH HIGH-EFFICIENCY INVERTER DUTY MOTOR, TRIPLE DUTY VALVE, SUCTION DIFFUSER W/ STRAINER

TANK SCHEDULE

TAG	WEIGHT	TYPE	VOLUME	ACCEPT	REMARKS
COMP-1	--	VERTICAL DIAPHRAGM - PRESSURIZED	40	12	B&G SERIES B
T-1	--	STORAGE - INSULATED	100 GAL	N/A	THERMAL FLYWHEEL TANK

EXHAUST FAN SCHEDULE

TAG	CFM	ESP	TYPE	HP	DRIVE	ELEC	LOCATION	SERVES	GREENHECK MODEL	REMARKS
EF-1	800	0.20"	INLINE	1/6	DIR	120/1	CAGES	CAGES	SQ-100-A	SCHEDULE THROUGH BMS
EF-2	6000	0.25"	SIDEWALL	1/2	DIR	120/1	STAGING	VENTIL.	SE2-20-427-A10	T'STAT W/ SUMMER OVERRIDE SWITCH
EF-3	6000	0.25"	SIDEWALL	1/2	DIR	120/1	BOAT STOR	VENTIL.	SE2-20-427-A10	T'STAT W/ SUMMER OVERRIDE SWITCH
EF-4	240	0.25"	INLINE	1/20	DIR	120/1	2ND FLOOR	1ST FL HEADS	SQ-80-G	SWITCH W/ LIGHTS-ADD X'FORMER
EF-5	500	0.25"	INLINE	1/15	DIR	120/1	2ND FLOOR	2ND FL HEADS	SQ-95-G	SWITCH W/ LIGHTS-ADD X'FORMER
EF-D	500	0.25"	INLINE	1/15	DIR	120/1	CAGES	DRYERS	SQ-95-G	INTERLOCK WITH DRYERS

ELECTRIC UNIT HEATER SCHEDULE

TAG	TYPE	CFM	THROW AT 9' AFF	TOTAL KW	ELEC VOLT/PH	AMPS	REMARKS
UH-1	HORIZ.	400	12'	3.3	480/3	4.0	USER ADJ STAT SET TO 55°F

UNITS ARE FOR OCCUPANT COMFORT AND SAFETY. FURNISH WITH ACCESSORY SUSPENSION KITS, WALL-MOUNTED THERMOSTATS (24V), DISCONNECT SWITCH, STRATIFICATION THERMOSTAT, AND SUMMER FAN SWITCH.

VAV BOX SCHEDULE

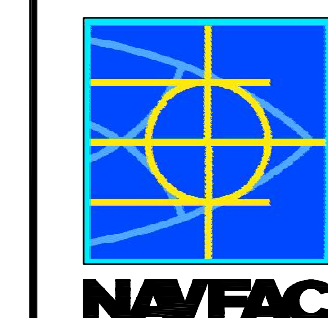
TAG	TYPE	MIN CFM	COOLING MAX CFM	HEATING MAX CFM	TOTAL KW	# OF ELEMENTS	ELEC VOLT/PH	REMARKS
VAV 1-1	PRIMARY	200	600	300	3.0	1	277/1	LOCAL DDC CONTROLS
VAV 1-2	PRIMARY	300	750	450	5.0	1	277/1	LOCAL DDC CONTROLS
VAV 2-1	PRIMARY	175	400	270	3.0	1	277/1	LOCAL DDC CONTROLS
VAV 2-2	PRIMARY	400	800	500	5.0	1	277/1	LOCAL DDC CONTROLS
VAV 2-3	PRIMARY	250	600	350	4.0	1	277/1	LOCAL DDC CONTROLS
VAV 2-4A	PRIMARY	250	700	360	8.0	1	480/3	LOCAL DDC CONTROLS
VAV 2-4B	PRIMARY	250	875	360	8.0	1	480/3	LOCAL DDC CONTROLS
VAV 2-5	PRIMARY	500	1000	650	6.0	1	277/1	LOCAL DDC CONTROLS
VAV 2-6	PRIMARY	350	1200	500	5.0	1	277/1	LOCAL DDC CONTROLS

FURNISH WITH XXXV-24V TRANSFORMER, AND DDC THERMOSTAT CONTROLS WITH AUTO CHANGEOVER. PROVIDE LISTED ACCESSORY ELECTRIC HEATERS WITH VAV UNITS. UNIT CONTROLLERS SHALL HAVE DUAL-MAXIMUM SETPOINT FULLY PROGRAMMABLE CONTROLS BY SIEMENS.

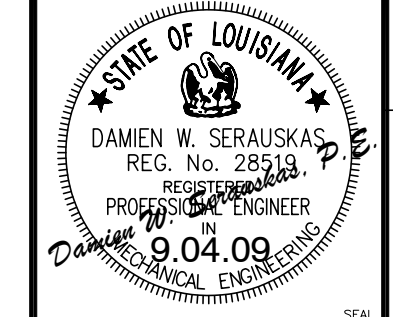
MINI-SPLIT HPU SYSTEM SCHEDULE

TAG	MBH COOL	HEAT	MIN. SEER	VOLT	PH	INDR. MOCP	OUT. BRKR	LOCATION	MODEL (INDOOR / OUTDOOR)
AC-1	24.0	24.0	13.0	208	1Ø	--	25	SERVER	MITSU. PKA-A24FAL W/ PUY-A24NHA-BS

NOTE: CONTRACTOR SHALL CLOSELY COORDINATE REQUIRED VOLTAGE AND PHASE OF EQUIPMENT PRIOR TO PURCHASE.



DAMMON ENGINEERING, INC.
 CHIEF ENGINEER CHIEF ARCHITECT
 DAMON, P.E. ROBERT WILTSIE
 1095 FLORIDA AVENUE
 SUITE 100, LA 70458
 (504) 649-5832



REVIEWED BY: R. WILTSIE
 PM/DM: T. ARTRIP
 CHIEF ENG/ARCH: P. DAMMON

DEPARTMENT OF THE NAVY
 NAVAL FACILITIES ENGINEERING COMMAND
 NAVAL FACILITIES ENGINEERING COMMAND SOUTHEAST
 NAVAL AIR STATION JACKSONVILLE
 MISSISSIPPI
 JOHN C. STENNIS SPACE CENTER
 SOF RIVERINE AND COMBATANT
 CRAFT OPERATIONS FACILITY - PRE-FINAL
 MECHANICAL LEGEND AND SCHEDULES

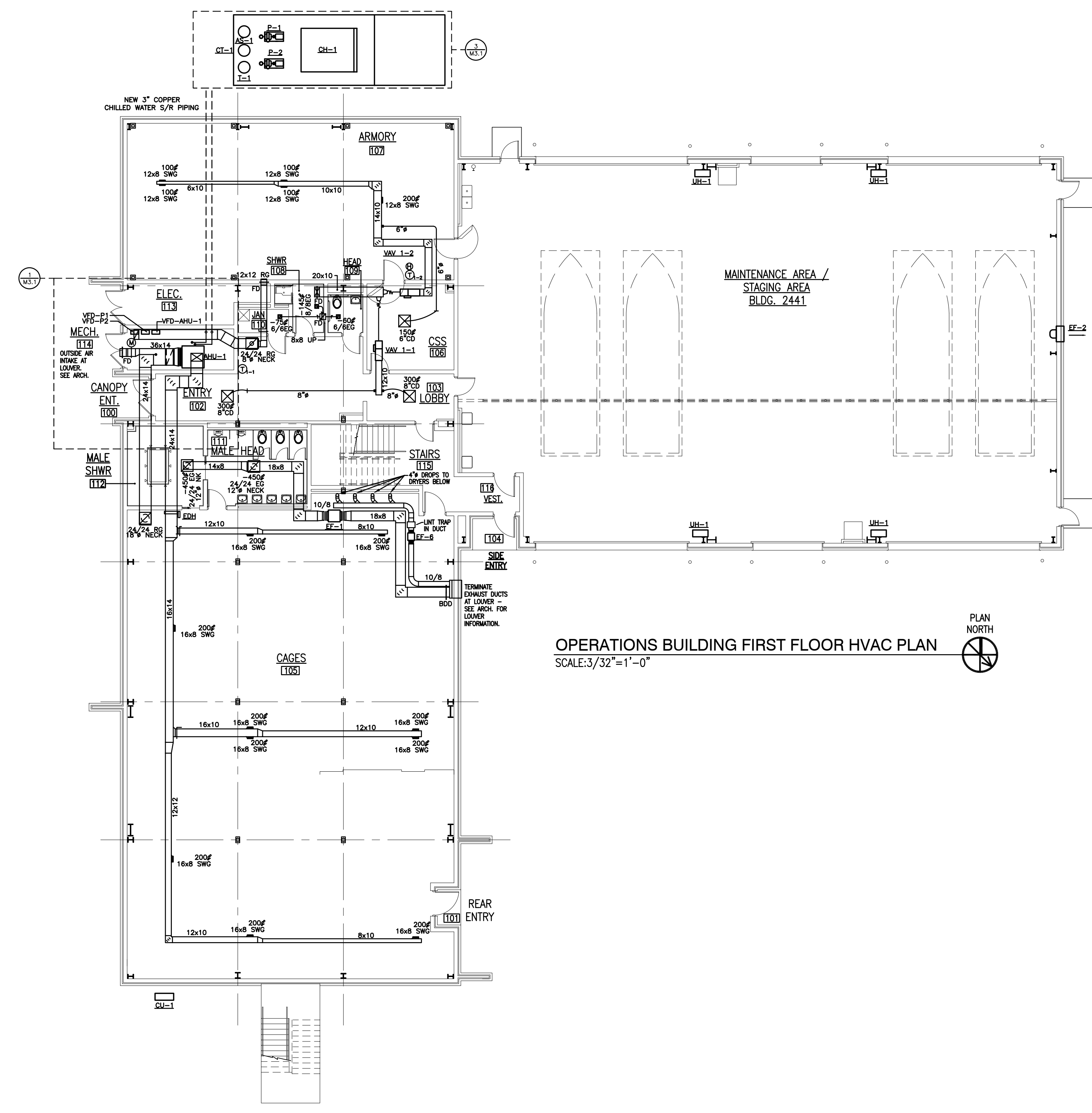
CODE ID NO. N4412 SIZE D
 SCALE: AS SHOWN
 MAXIMO NO. #####
 STA. PROJ. NO. P-210
 WORK ORDER NO. 510247
 CONSTR. CONTR. NO. N62467-05-D-0096
 NAVFAC DRAWING NO. 15026731
 SHEET 84 OF 132

M1.0

DRAWING REVISION: 01 JUN 2009



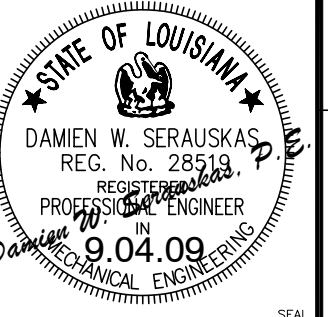
REVDATE: FILE NAME: C:\Stennis Riverine Facility\Stennis Mech Master.dwg LAYOUT NAME: M1.0 PLOTTED: Thursday, September 10, 2009 - 11:00am

DAMIEN W. SERAUSKAS, P.E.
PROFESSIONAL ENGINEERING SERVICES
 15 CYPRESS POINT LANE NEW ORLEANS, LA 70131
 VOICE: (504)866-2600 FAX: (504)218-8480

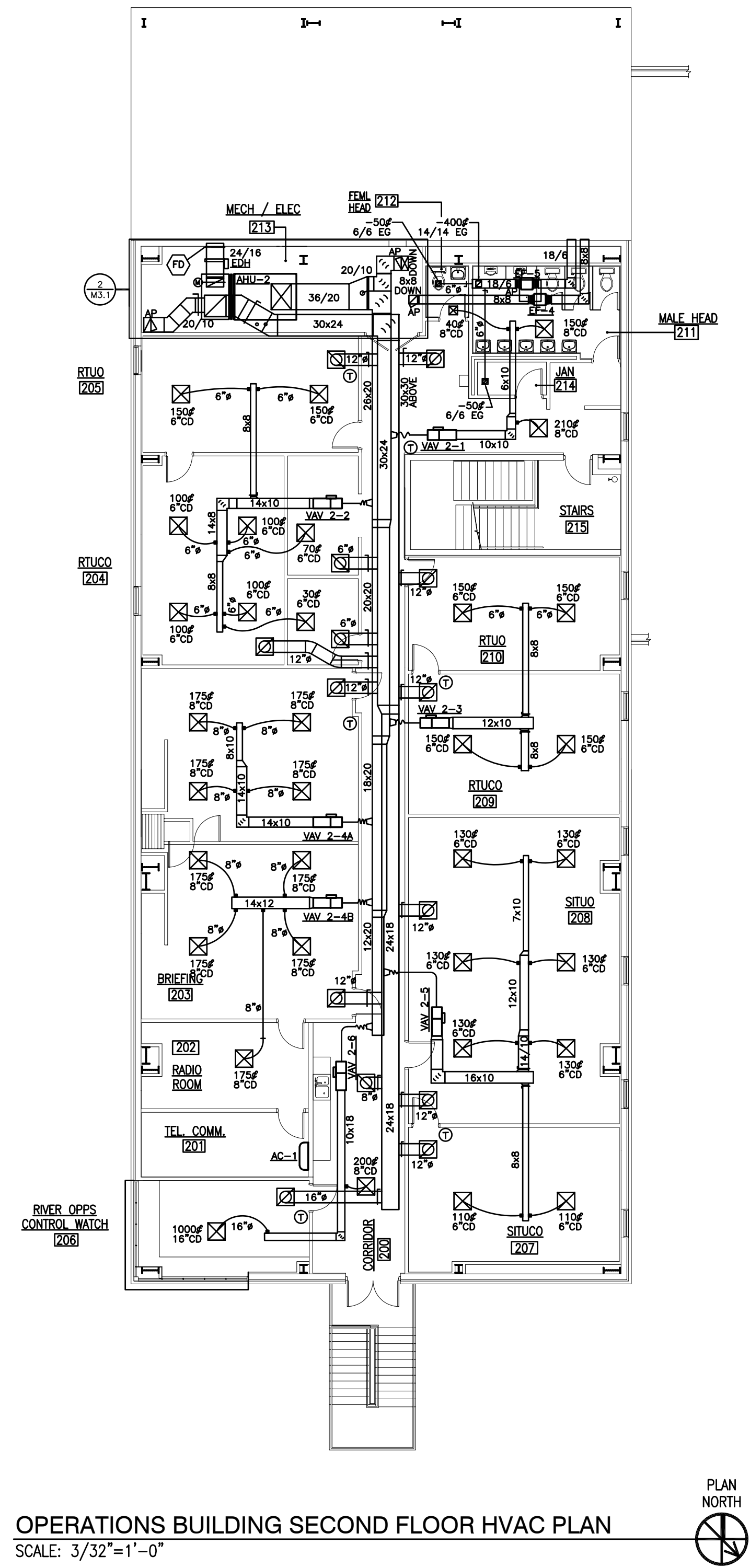


OPERATIONS BUILDING FIRST FLOOR HVAC PLAN
 SCALE: 3/32" = 1'-0"

REVD/DATE: FILE NAME: C:\Stennis Riverine Facility\Stennis Mech Master.dwg LAYOUT NAME: M1.1 PLOTTED: Thursday, September 10, 2009 - 11:00am

APPROVED	DATE
DESCRIPTION	SYM
 NAVFAC	
 DAMMON ENGINEERING, INC. <small>CHIEF ENGINEER CHIEF ARCHITECT DAMON, P.E. ROBERT WILTSE 1095 FLORIDA AVENUE SUITE 101 SUDELL, LA 70458 (985) 649-5832 SEPT 4, 2009</small>	
 <small>DAMIEN W. SERAUSKAS REG. NO. 28513 PROFESSIONAL ENGINEER MECHANICAL ENGINEERING 9.04.09</small>	
REVIEWED BY: R. WILTSE	
PM/DM: T. ARTRIP	
CHIEF ENG/ARCH: P. DAMMON	
<small>DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND NAVAL FACILITIES ENGINEERING COMMAND SOUTHEAST NAVAL AIR STATION JACKSONVILLE MISSISSIPPI JOHN C. STENNIS SPACE CENTER SOF RIVERINE AND COMBATANT CRAFT OPERATIONS FACILITY - PRE-FINAL OPERATIONS BLDG FIRST FLOOR HVAC PLAN</small>	
CODE ID NO. N4412	SIZE D
SCALE: AS SHOWN	
MAXIMO NO. #####	
STA. PROJ. NO. P-210	
WORK ORDER NO. 510247	
CONSTR. CONTR. NO. N62467-05-D-0096	
NAVFAC DRAWING NO. 15026732	
SHEET 85 OF 132	
M1.1	
<small>DRAWING REVISION: 01 JUN 2009</small>	

REVD/DATE: FILE NAME: C:\Stennis Riverine Facility\Stennis Mech Master.dwg LAYOUT NAME: M1.2 PLOTTED: Thursday, September 10, 2009 - 11:00am



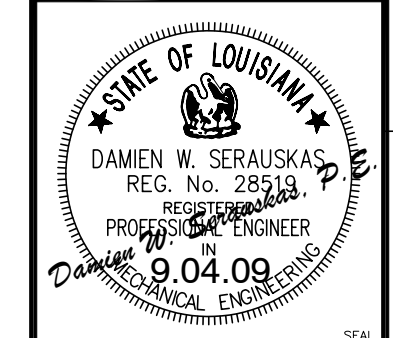
OPERATIONS BUILDING SECOND FLOOR HVAC PLAN
SCALE: 3/32"=1'-0"

DAMIEN W. SERAUSKAS, P.E.
PROFESSIONAL ENGINEERING SERVICES
15 CYPRESS POINT LANE, NEW ORLEANS, LA 70131
VOICE: (504)866-2600 FAX: (504)218-8480

SYN	DESCRIPTION	DATE	APPR



DAMMON
ENGINEERING, INC.
CHIEF ENGINEER: DAMON W. SERAUSKAS, P.E.
CHIEF ARCHITECT: ROBERT WILTSE
1095 FLORIDA AVENUE
SUITE 100, SUDBURY, MA 01874
(978) 649-5832
SEPT 4, 2009



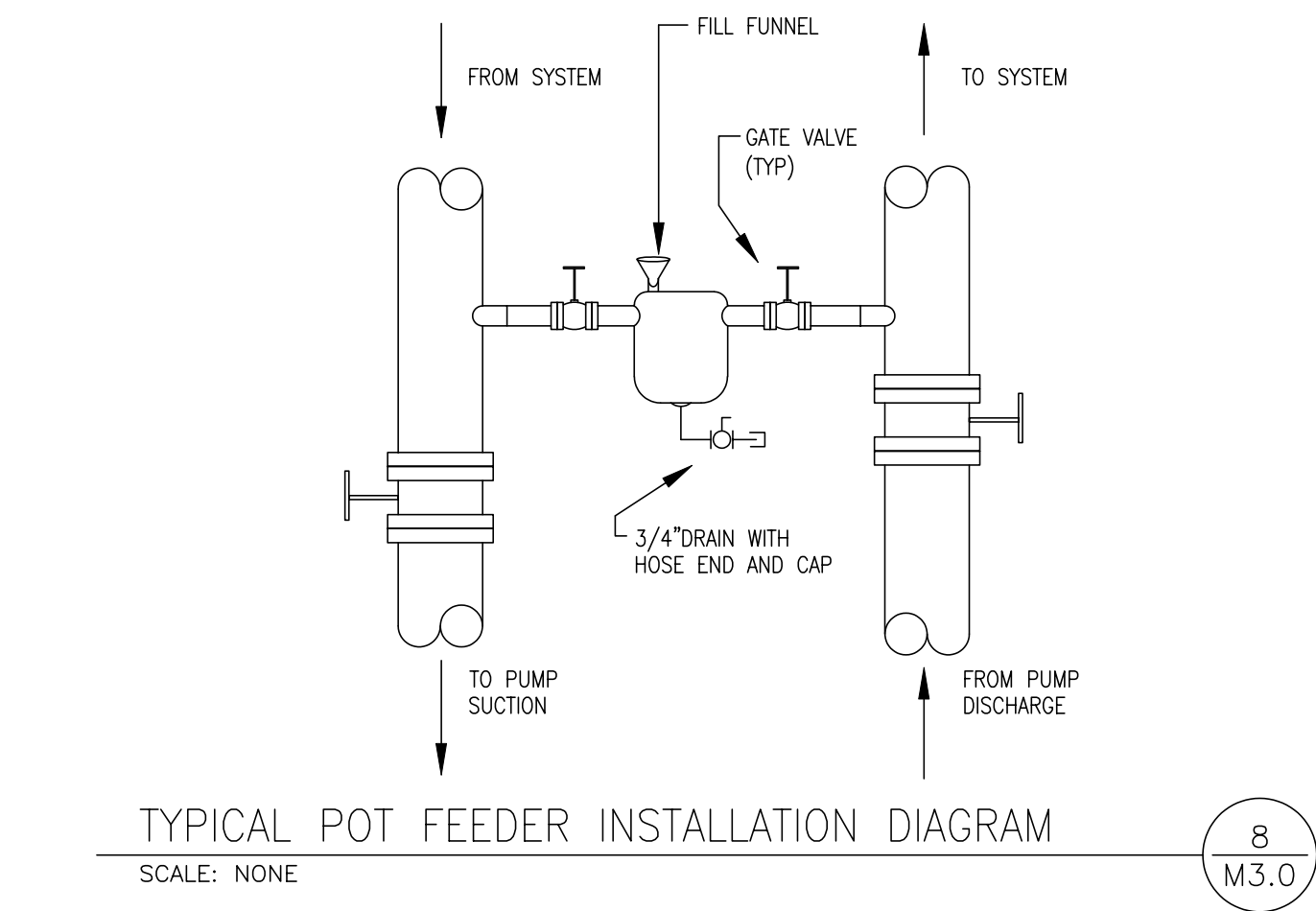
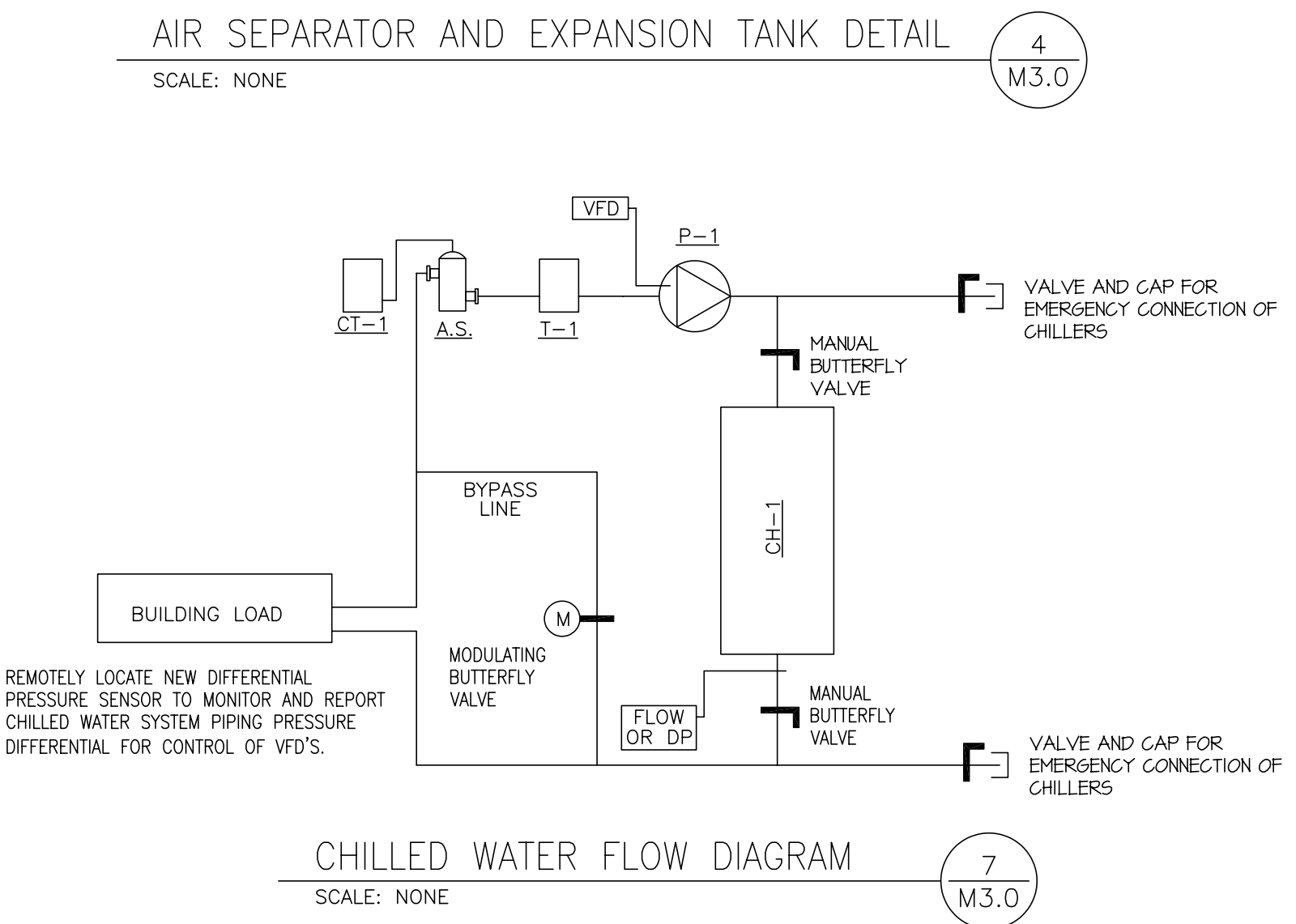
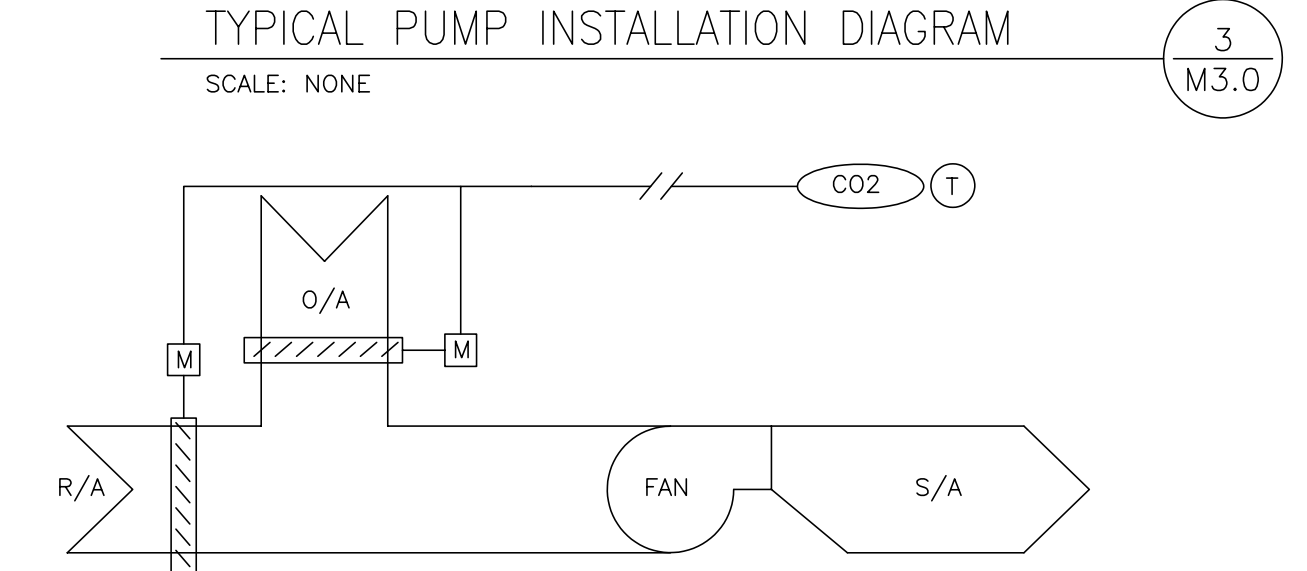
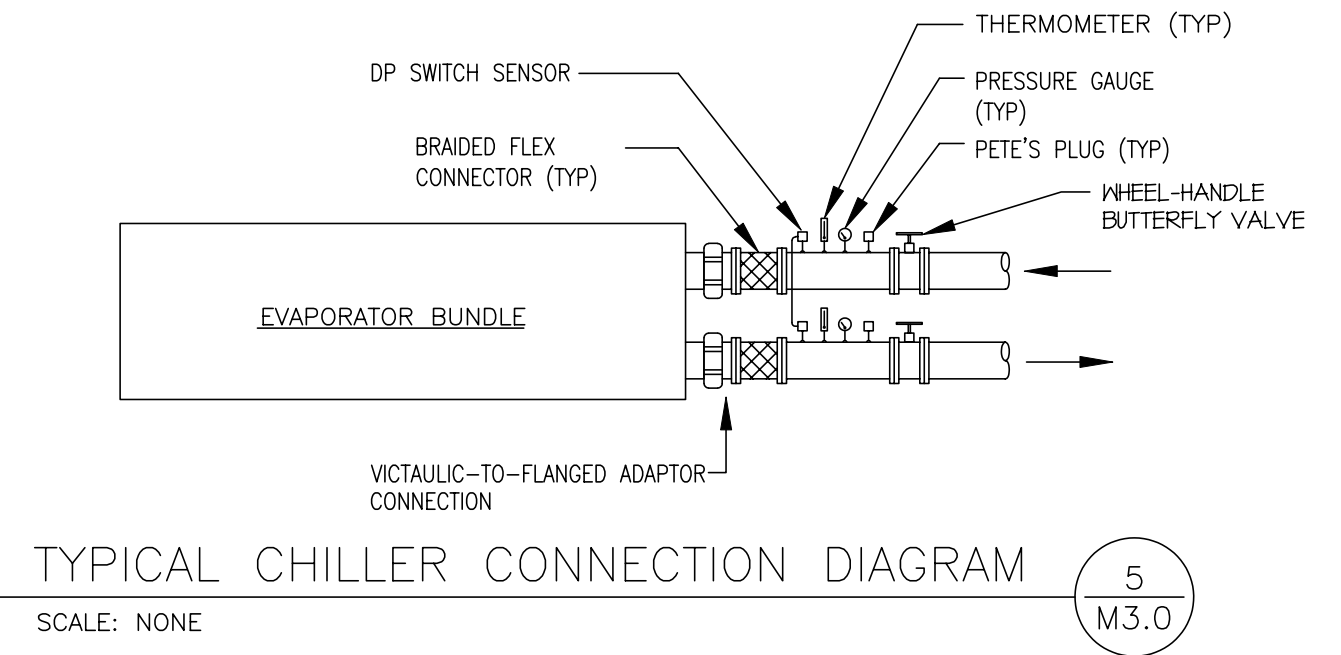
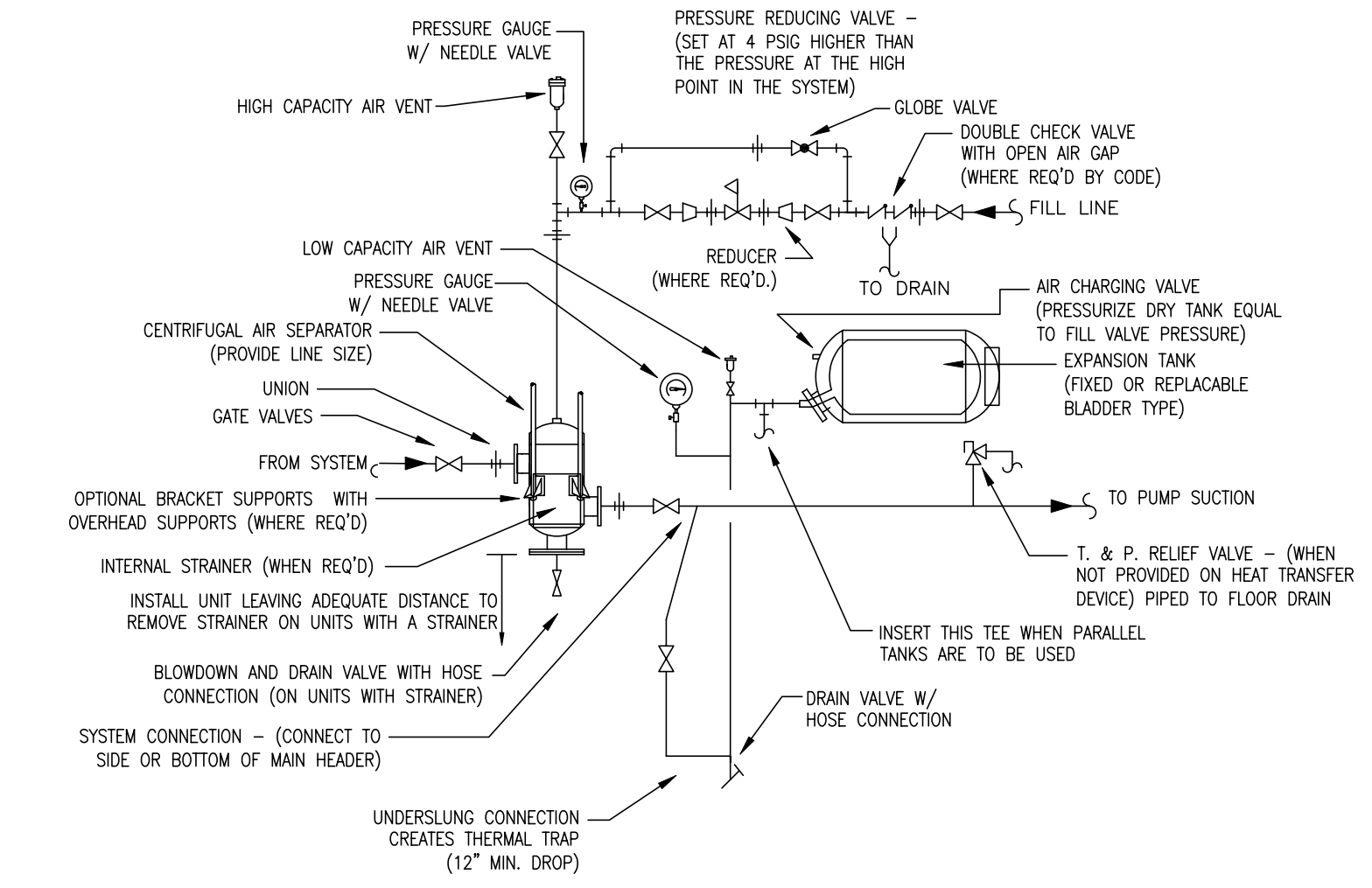
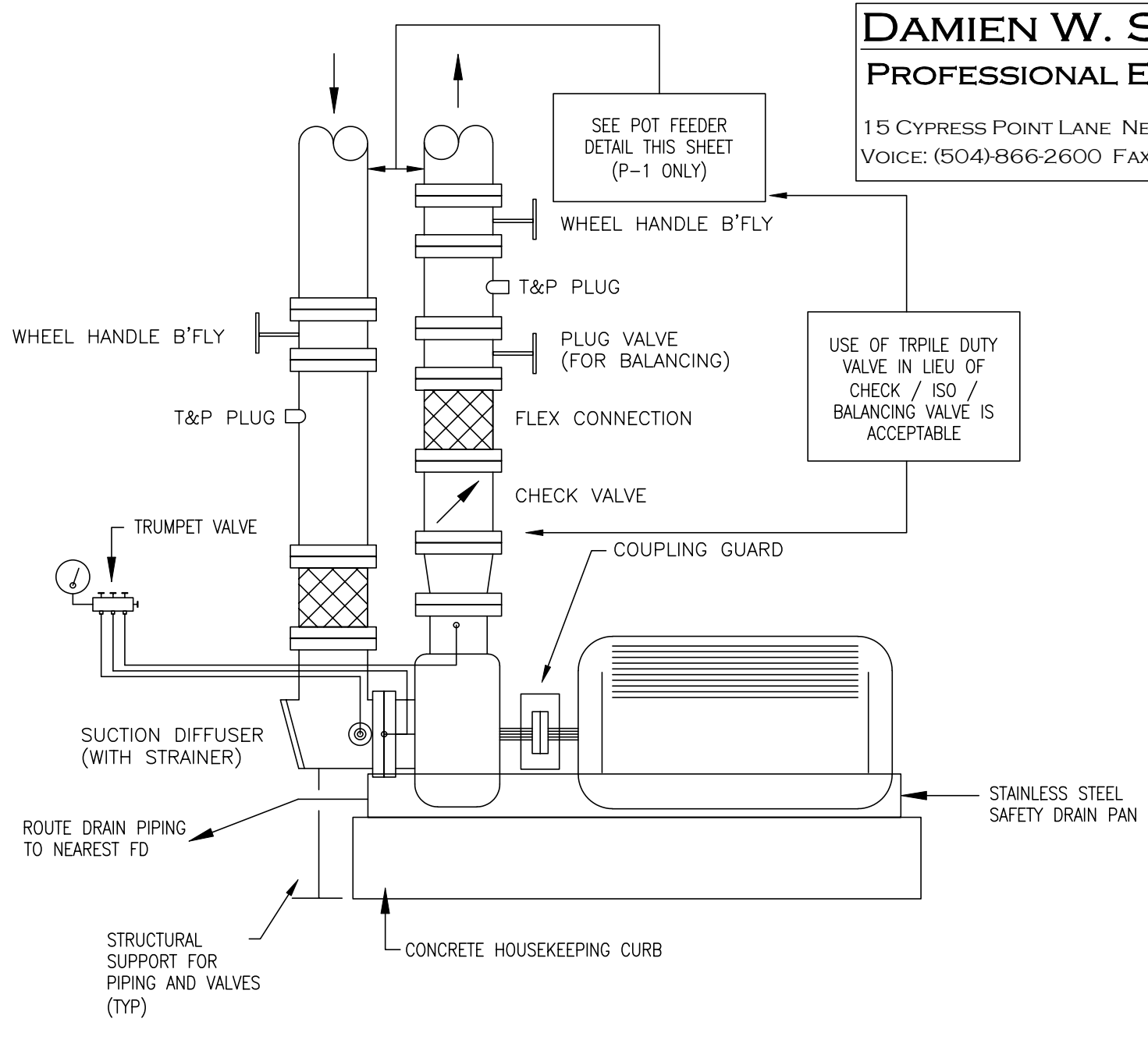
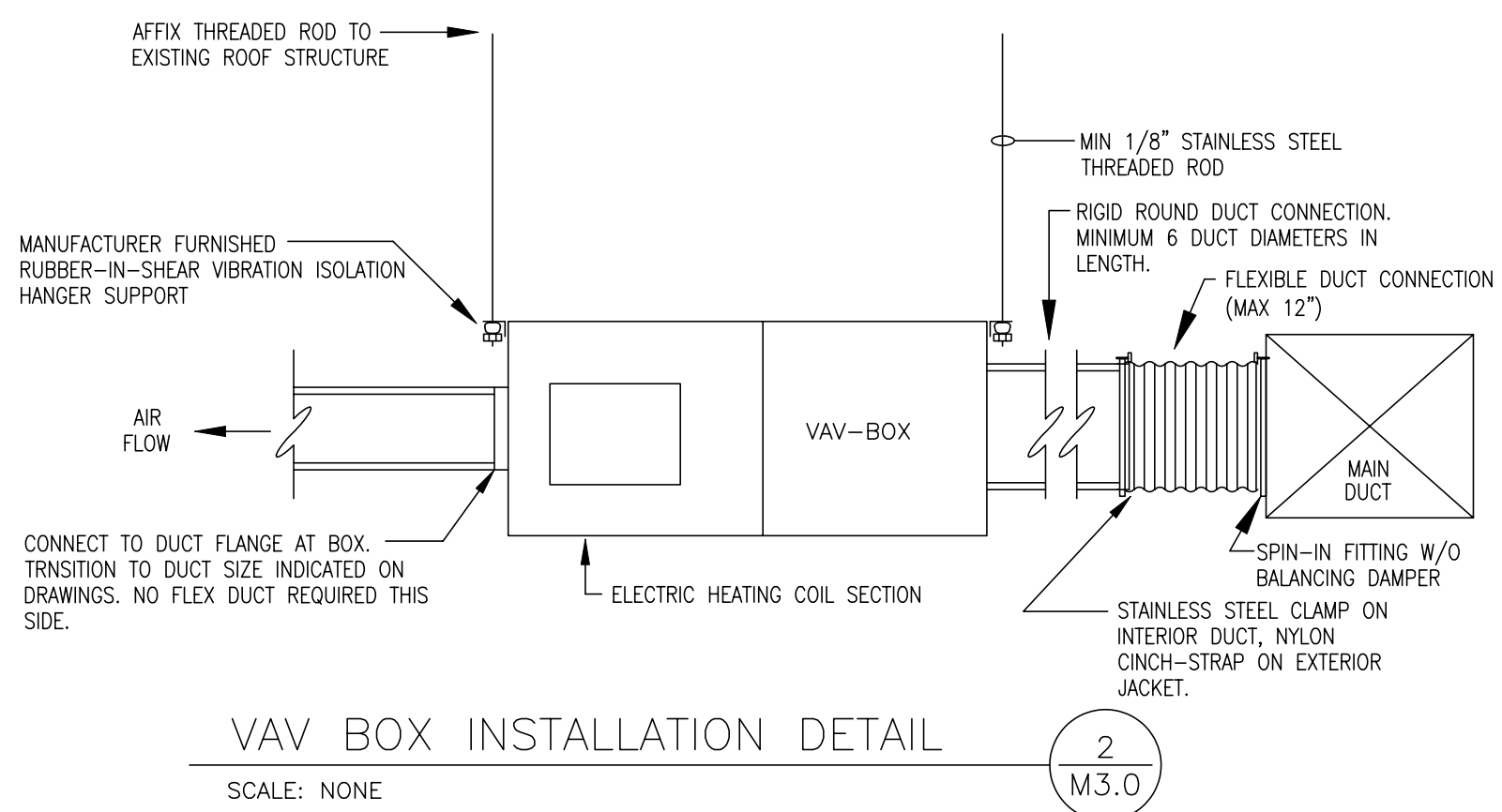
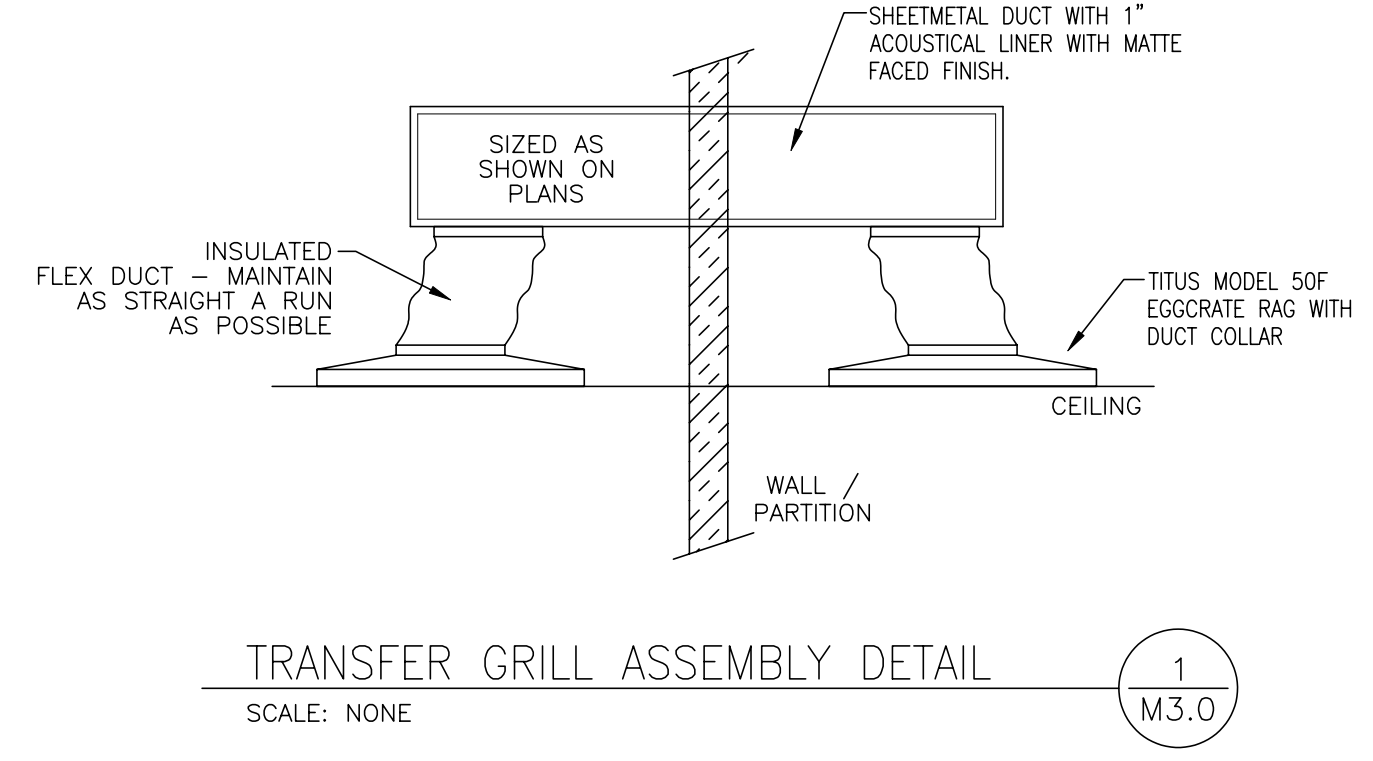
REVIEWED BY: R. WILTSE
PM/DM: T. ARTRIP
CHIEF ENG/ARCH: P. DAMMON

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
NAVAL FACILITIES ENGINEERING COMMAND SOUTHEAST
NAVAL AIR STATION JACKSONVILLE
MISSISSIPPI
JOHN C. STENNIS SPACE CENTER
SOF RIVERINE AND COMBATANT
CRAFT OPERATIONS FACILITY - PRE-FINAL
OPERATIONS BLDG 2ND FLOOR HVAC PLAN

CODE ID NO. N4412	SIZE D
SCALE: AS SHOWN	
MAXIMO NO. #####	
STA. PROJ. NO. P-210	
WORK ORDER NO. 510247	
CONSTR. CONTR. NO. N62467-05-D-0096	
NAVFAC DRAWING NO. 15026733	
SHEET 86 OF 132	

M1.2

DRAWING REVISION: 01 JUN 2009

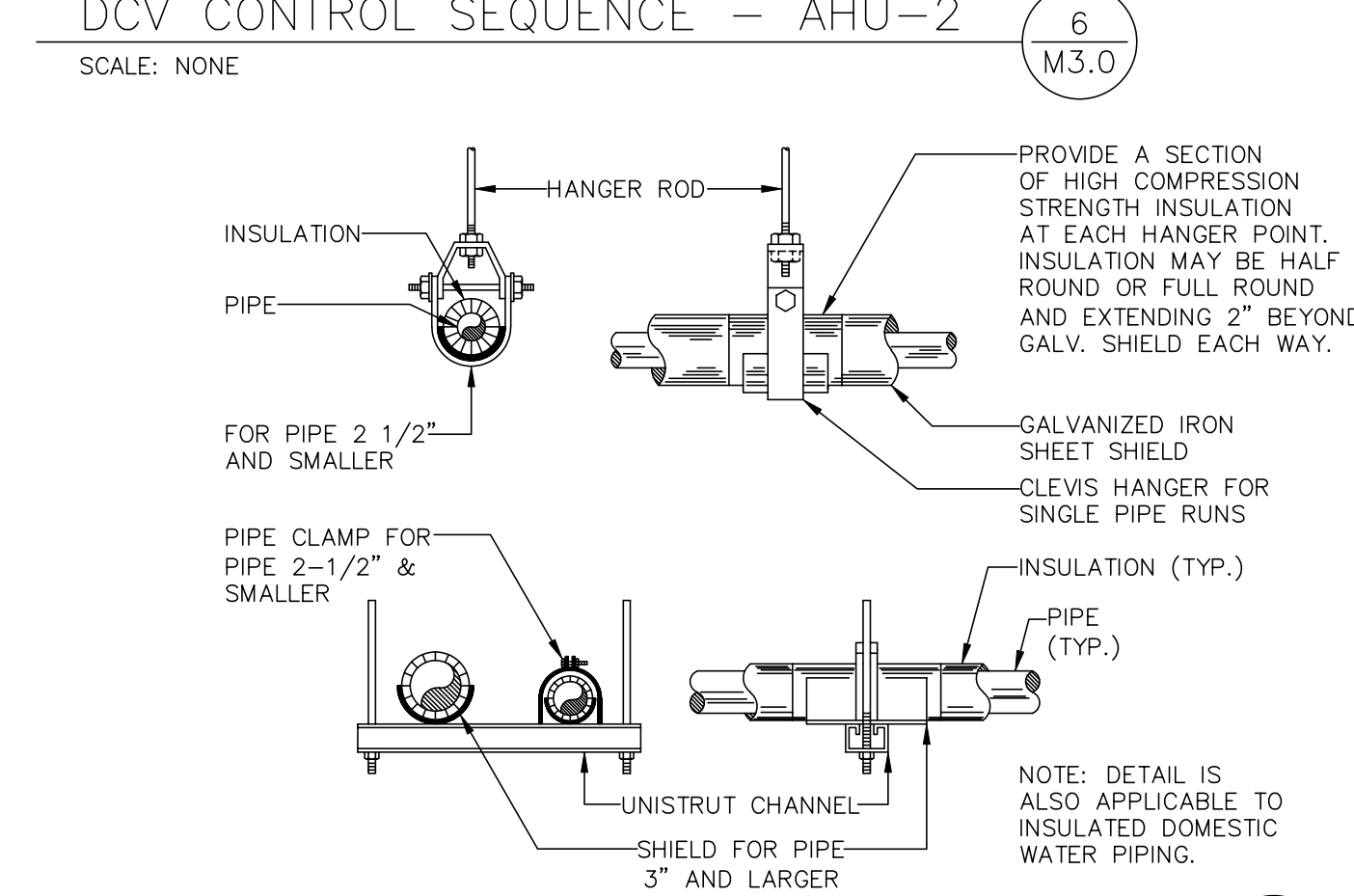
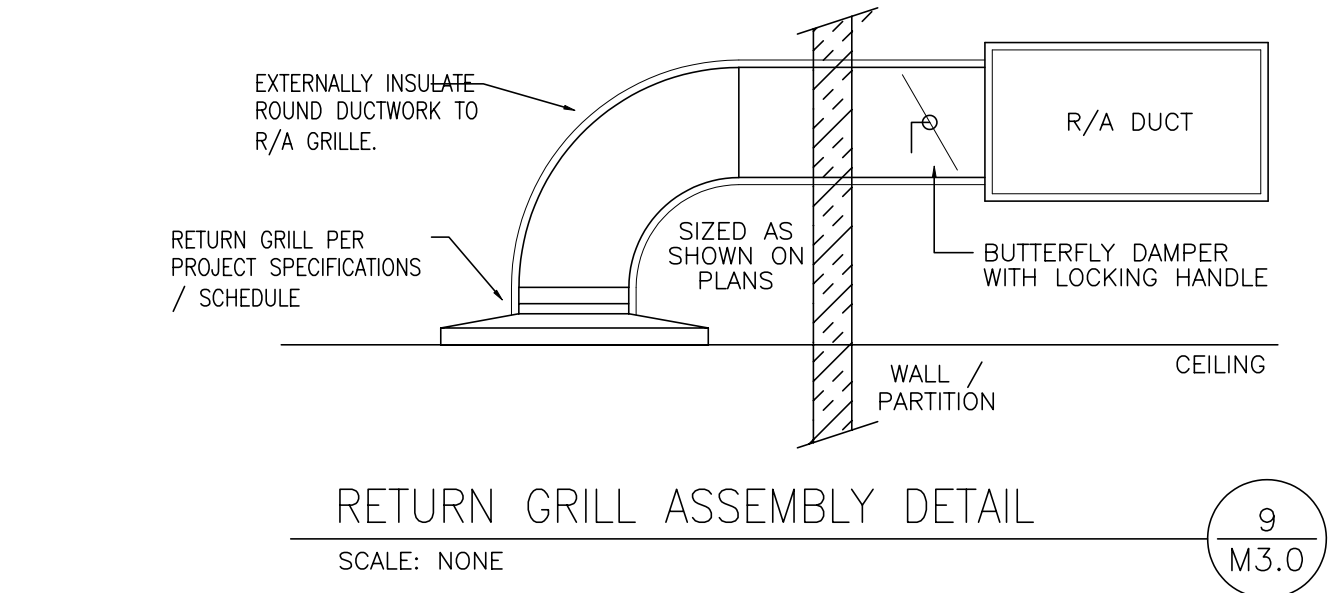


SEQUENCE OF OPERATION

ZONE CO2 SENSOR SHALL MEASURE THE ROOM AIR CONCENTRATION OF CARBON DIOXIDE. IF THE LEVEL OF CO2 SENSED IS LESS THAN THE SET POINT (ADJUSTABLE), THE OUTSIDE AIR DAMPER SHALL CLOSE AND RA DAMPER SHALL OPEN. IF THE CO2 CONCENTRATION IS ABOVE SETPOINT, THE OUTSIDE AIR DAMPER SHALL OPEN AND RA DAMPER SHALL CLOSE. THE DAMPERS SHALL MODULATE IN 5% FLOW INCREMENTS BETWEEN MIN AND MAX POSITIONS, AND THE DEMAND CONTROL VENTILATION SEQUENCE SHALL SAMPLE / CYCLE EVERY 10 MINUTES TO ELIMINATE INSTANTANEOUS HUNTING OF THE DAMPERS.

WHEN UNIT IS OFF, THE OUTSIDE AIR AND RA DAMPERS SHALL CLOSE FULLY. UPON UNIT STARTUP, THE OUTSIDE AIR DAMPER SHALL OPEN TO A MINIMUM CFM SETPOINT OF 20% OF FULL (MAX) FLOW AND RA DAMPER SHALL OPEN TO MAX FLOW (100%). ONCE OPERATING FOR A MINIMUM OF 10 MINUTES, THE DEMAND CONTROL VENTILATION SEQUENCE SHALL BEGIN.

REFERENCE SHEETS M4.1 THROUGH M4.3 FOR ADDITIONAL SPECIFIC CONTROL SYSTEM INFORMATION AND SCHEMATICS.



DAMIEN W. SERAUSKAS, P.E.
PROFESSIONAL ENGINEERING SERVICES
 15 CYPRESS POINT LANE NEW ORLEANS, LA 70131
 VOICE: (504)866-2600 FAX: (504)218-8480

DATE	DESCRIPTION

DAMMON ENGINEERING, INC.
 CHIEF ENGINEER: DAMON W. SERAUSKAS, P.E.
 CHIEF ARCHITECT: ROBERT WILITE
 1095 FLORIDA AVENUE
 SUITE 101, LA 70448
 (888) 649-5832
 SEPT 4, 2009

STATE OF LOUISIANA
 DAMIEN W. SERAUSKAS
 REG. No. 28519
 PROFESSIONAL ENGINEER
 MECHANICAL ENGINEERING
 9.04.09

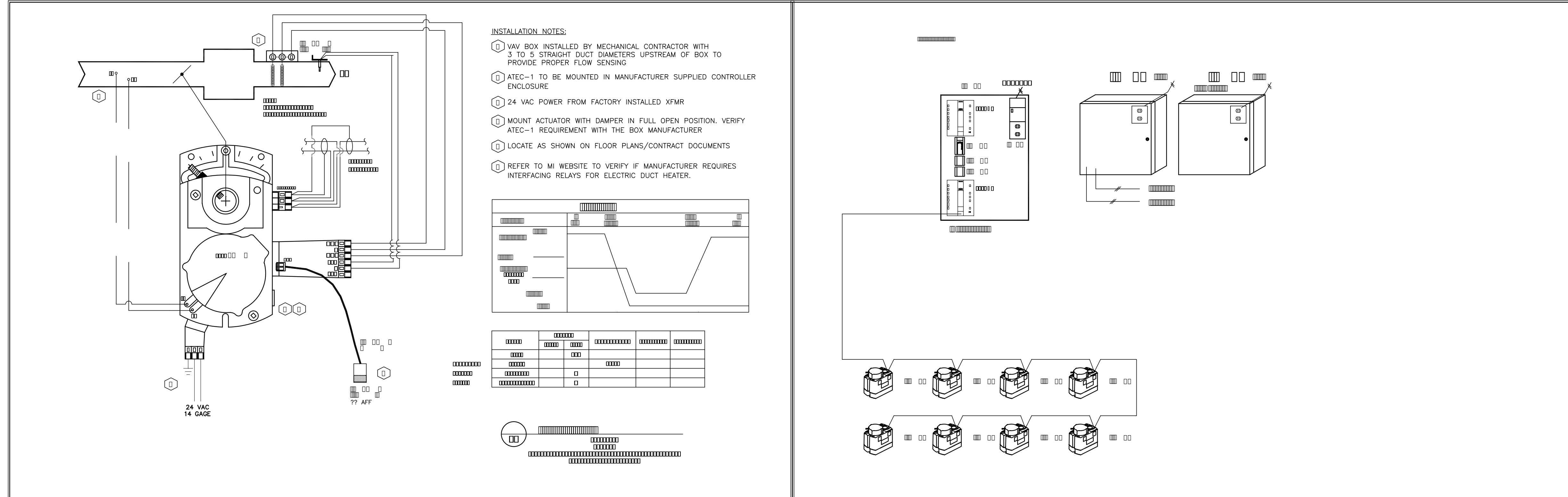
REVIEWED BY: R. WILITE
 PM/DM: T. ARTRIP
 CHIEF ENG./ARCH: P. DAMMON

DEPARTMENT OF THE NAVY
 NAVAL FACILITIES ENGINEERING COMMAND
 NAVAL FACILITIES ENGINEERING COMMAND SOUTHEAST
 LEFT GULF COAST
 JOHN C. STENNIS SPACE CENTER
 MISSISSIPPI
 SOF RIVERINE AND COMBATANT
 CRAFT OPERATIONS FACILITY - PRE-FINAL
 MECHANICAL DETAILS AND DIAGRAMS

CODE ID NO. N4412	SIZE D
SCALE: AS SHOWN	
MAXIMO NO. #####	
STA. PROJ. NO. P-210	
WORK ORDER NO. 510247	
CONSTR. CONTR. NO. N62467-05-D-0096	
NAVFAC DRAWING NO. 15026735	
SHEET 88 OF 132	
M3.0	

REV/DATE: FILE NAME: C:\Stennis Riverine Facility\Stennis Mech Master.dwg LAYOUT NAME: M3.0 PLOTTED: Thursday, September 10, 2009 - 11:00am

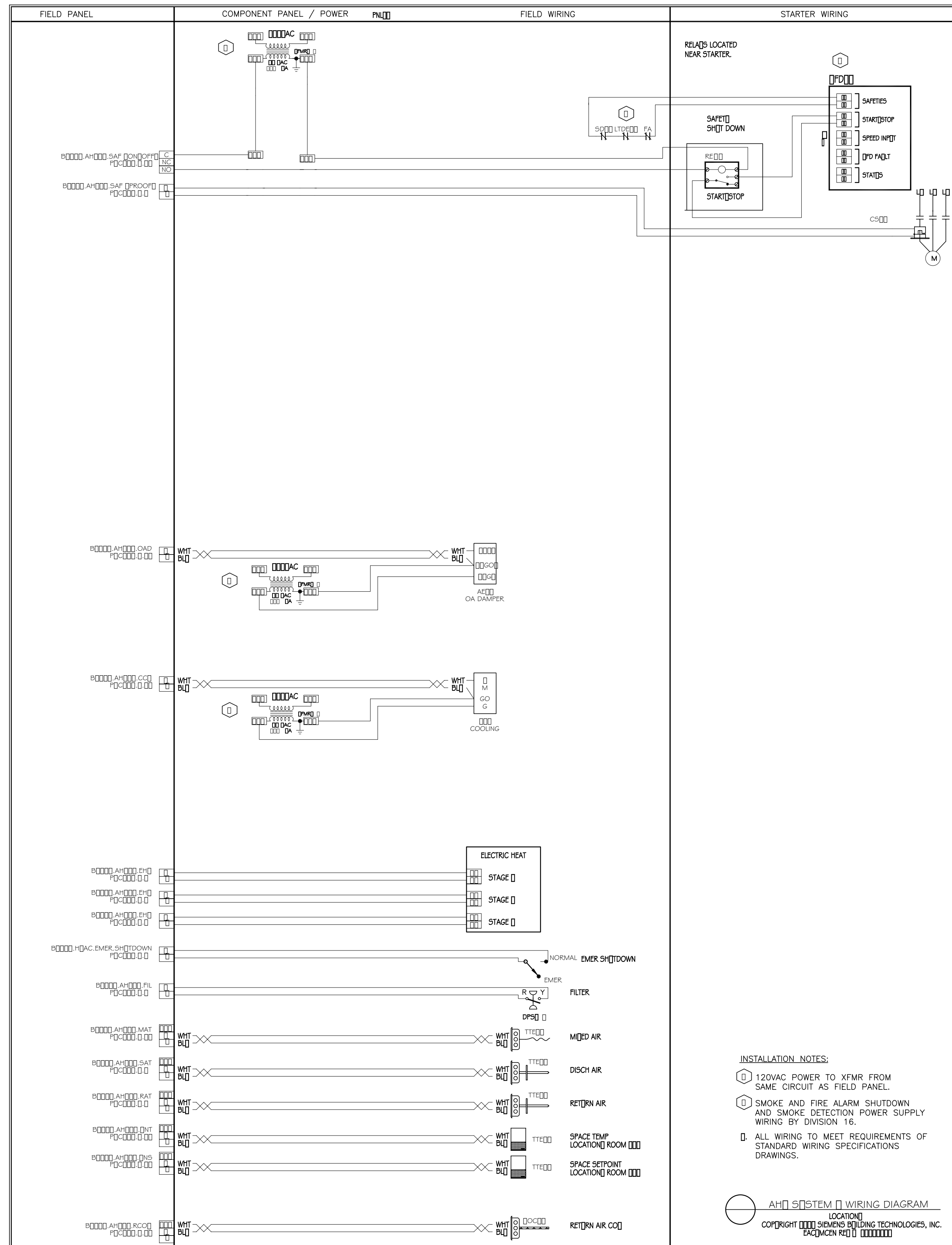
DAMIEN W. SERAUSKAS, P.E.
PROFESSIONAL ENGINEERING SERVICES
 15 CYPRESS POINT LANE NEW ORLEANS, LA 70131
 VOICE: (504)866-2600 FAX: (504)218-8480



REVISION HISTORY SIEMENS 150 Teal Street Suite 100 St. Rose, LA 70087 USA Phone: (504)466-9300 Fax: (504)464-6800	SOF Riverine Warfare Center Stennis Space Center, MS ENGINEER: JWW DRAFTER: JWW CHECKED BY: JWW WITH RELEASE: 06/06/09 LAST EDIT DATE: 08/21/09 ATEC VAV Box w/ Elec Reheat (2) Stg	REVISION HISTORY SIEMENS 150 Teal Street Suite 100 St. Rose, LA 70087 USA Phone: (504)466-9300 Fax: (504)464-6800	SOF Riverine Warfare Center Stennis Space Center, MS ENGINEER: JWW DRAFTER: JWW CHECKED BY: JWW WITH RELEASE: 06/06/09 LAST EDIT DATE: 08/21/09 Control System Riser Diagram
---	--	---	---

APPR	DATE
SYN	DESCRIPTION
REVIEWED BY: R. WILTSE PM/DM: T. ARTRIP CHIEF ENG/ARCH: P. DAMMON	
DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND SOUTH EAST NAVAL AIR STATION JACKSONVILLE MISSISSIPPI JOHN C. STENNIS SPACE CENTER SOF RIVERINE AND COMBATANT CRAFT OPERATIONS FACILITY - PRE-FINAL ENLARGED PLANS AND DETAILS	
CODE ID NO. N4412	SIZE D
SCALE: AS SHOWN	
MAXIMO NO. #####	
STA. PROJ. NO. P-210	
WORK ORDER NO. 510247	
CONSTR. CONTR. NO. N62467-05-D-0096	
NAVFAC DRAWING NO. 15026737	
SHEET 90 OF 132	
M4.1	
DRAWING REVISION: 01 JAN 2009	

REV/DATE: FILE NAME: C:\Stennis Riverine Facility\Stennis Mech Master.dwg LAYOUT NAME: M4.1 PLOTTED: Thursday, September 10, 2009 - 11:00am



Air Handler 1 Sequence of Operations

The constant volume air handling unit consists of a mixed air section with outdoor air damper, pre-filter, chilled water cooling coil, electric heating coil and supply fan. The unit is DDC controlled using electric actuation.

The air handling unit is scheduled for automatic operation 24 hours per day.

Occupied

The fan starts or continues to run and the unit is controlled as follows:

The supply air temperature set point is reset based on the room temperature set point based upon the following reset schedule:

Offset from Zone Set Point	SAT Set Point
+ 3 Deg F	55 Deg F
0 Deg F	72 Deg F
-3 Deg F	90 Deg F

The electric heating stages and the cooling coil valve modulate in sequence without overlap to maintain the supply air temperature set point.

The outside air damper modulates to maintain the return CO2 level between 700 and 1000 PPM, with a low limit set point of 48 degrees as sensed by the mixed air temperature sensor.

Unoccupied (Normal Off)

The supply fan is off. The cooling coil valve closes and electric heating is off. The outside air damper is closed to the outdoor air.

Safety

Smoke detectors in the supply air stream de-energize the supply fan upon activation. The electric heating is off. All dampers and valves position to their normal position after the fan is de-energized.

A low temperature detector in the mixed air plenum de-energizes the supply fan when temperatures below 38 degrees F (3 degrees C) are sensed. The cooling coil valve opens. The outside air damper is closed to the outdoor air.

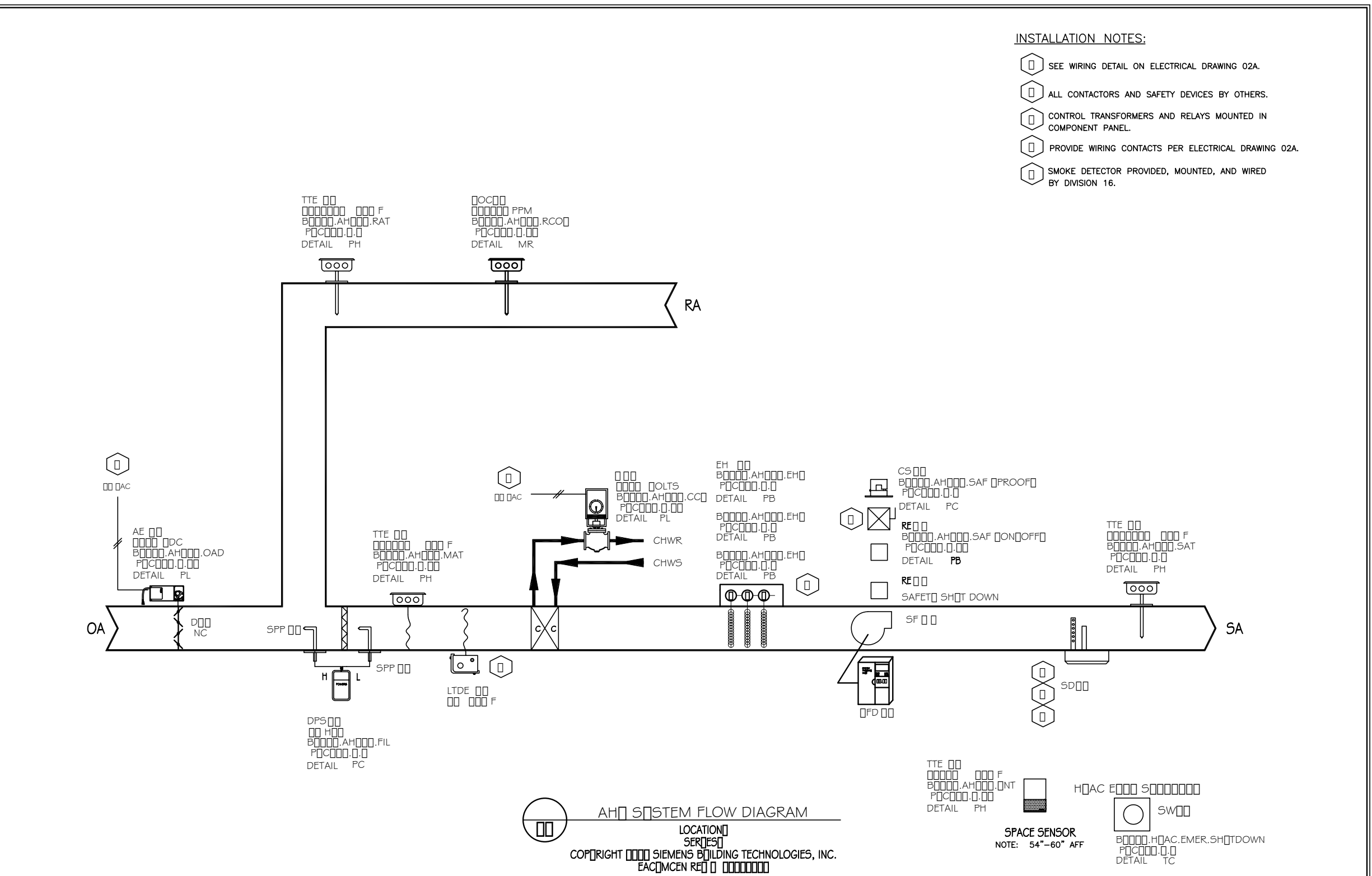
An HVAC Emergency Shutdown Switch located in the Lobby de-energizes the supply fan when activated, and also generates an alarm to the DDC System. The cooling coil valve closes. The outside air damper is closed to the outdoor air.

A current switch is installed in the supply fan starter. The DDC system uses this switch to confirm the fan is in the desired state (i.e. on or off) and generates an alarm if status deviates from DDC start/stop control.

DAMIEN W. SERAUSKAS, P.E.
PROFESSIONAL ENGINEERING SERVICES
 15 CYPRESS POINT LANE NEW ORLEANS, LA 70131
 VOICE: (504)866-2600 FAX: (504)218-8480



DAMMON ENGINEERING, INC.
 CHIEF ENGINEER CHIEF ARCHITECT
 DAMON, P.E. ROBERT WILTSE
 1095 FLORIDA AVENUE
 SUITE 100
 SUDBURY, MA 01884
 (978) 449-5832



REVISION HISTORY

NO.	DATE	DESCRIPTION
1	08/21/09	ISSUE FOR CONSTRUCTION

SIEMENS
 150 Teal Street
 Suite 100
 St. Rose, LA 70087
 USA
 Phone: (504)466-9300
 Fax: (504)464-6800

SOF Riverine Warfare Center
 Stennis Space Center, MS
 ENGINEER: JWW
 DESIGNER: JWW
 CHECKER: JWW
 INITIAL RELEASE: 06/06/09
 LAST EDIT DATE: 08/21/09
 CAV w/o RF, CC, EHC

REVISION HISTORY

NO.	DATE	DESCRIPTION
1	08/21/09	ISSUE FOR CONSTRUCTION

SIEMENS
 150 Teal Street
 Suite 100
 St. Rose, LA 70087
 USA
 Phone: (504)466-9300
 Fax: (504)464-6800

SOF Riverine Warfare Center
 Stennis Space Center, MS
 ENGINEER: JWW
 DESIGNER: JWW
 CHECKER: JWW
 INITIAL RELEASE: 06/06/09
 LAST EDIT DATE: 08/21/09
 AHU 1

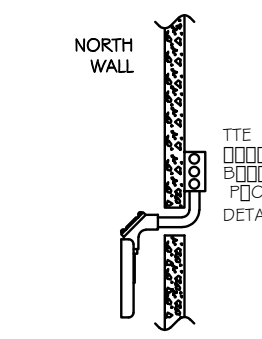
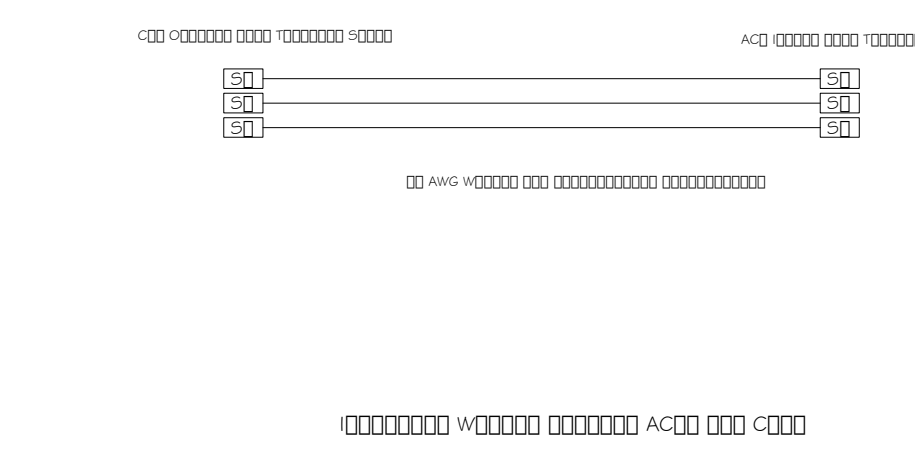
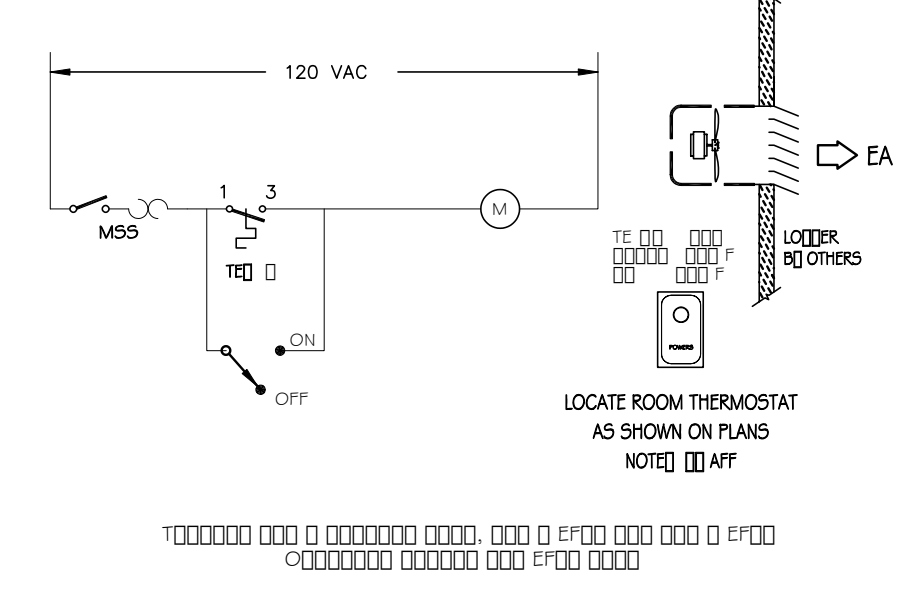
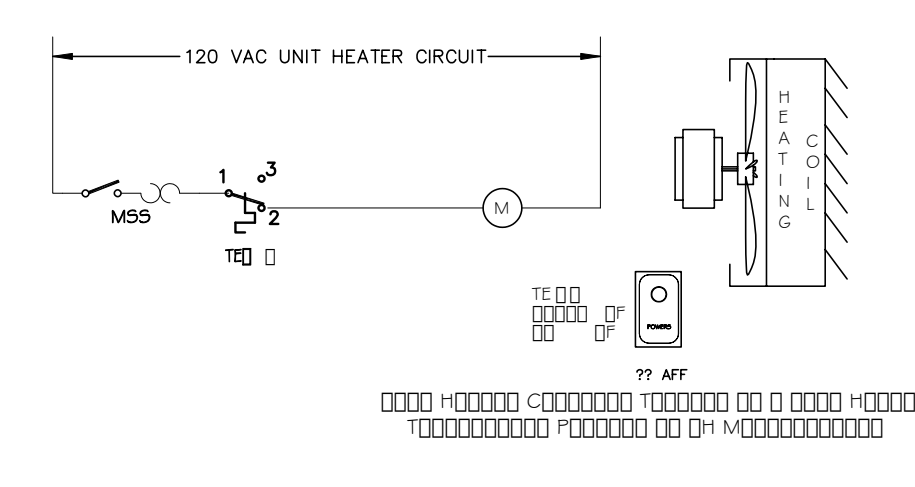
SOF Riverine Warfare
 Building Automation

REV: DATE: FILE NAME: C:\Stennis Riverine Facility\Stennis Mech Master.dwg LAYOUT NAME: M4.2 PLOTTED: Thursday, September 10, 2009 - 11:00am

REVIEWED BY: R. WILTSE
 PM/DM: T. ARTRIP
 CHIEF ENG/ARCH: P. DAMMON

DEPARTMENT OF THE NAVY
 NAVAL FACILITIES ENGINEERING COMMAND
 NAVAL FACILITIES ENGINEERING DISTRICT SOUTHEAST
 NAVAL AIR STATION JACKSONVILLE
 MISSISSIPPI
 JOHN C. STENNIS SPACE CENTER
 SOF RIVERINE AND COMBATANT
 CRAFT OPERATIONS FACILITY - PRE-FINAL
 ENLARGED PLANS AND DETAILS

CODE ID: NO. N4412 SIZE: D
 SCALE: AS SHOWN
 MAXIMO NO.: #####
 STA. PROJ. NO.: P-210
 WORK ORDER NO.: 510247
 CONSTR. CONTR. NO.: N62467-05-D-0096
 NAVFAC DRAWING NO.: 15026738
 SHEET: 91 OF 132
 M4.2
 DRAWING REVISION: 01 JAN 2009



NO.	DESCRIPTION	DATE

SIEMENS 150 Teal Street Suite 100 St. Rose, LA 70087 USA Phone: (504)466-9300 Fax: (504)464-6800

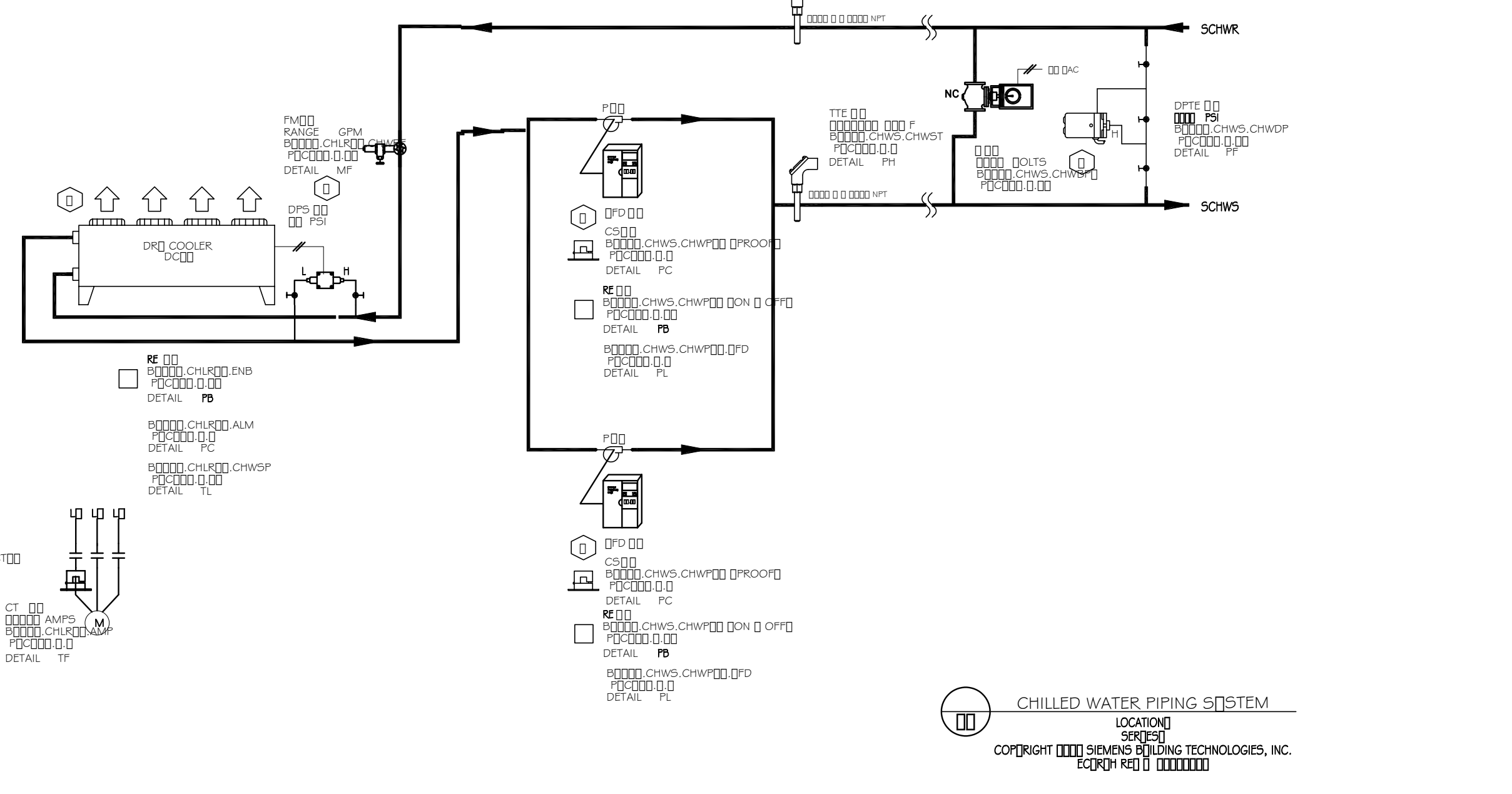
SOF Riverine Warfare Center Stennis Space Center, MS

SIEMENS Building Automation

Miscellaneous Controls

INSTALLATION NOTES:

- SEE CHILLER WIRING DETAIL ON DRAWING ? RELAY MOUNTED AT CHILLER.
- SEE PUMP MOTOR STARTER WIRING DETAIL ON DRAWING ? CSR AND RELAY MOUNTED AT STARTER.
- THE DIFFERENTIAL PRESSURE TRANSMITTER IS LOCATED ACROSS THE LAST COIL OF THE LOOP.
- FIELD PANEL



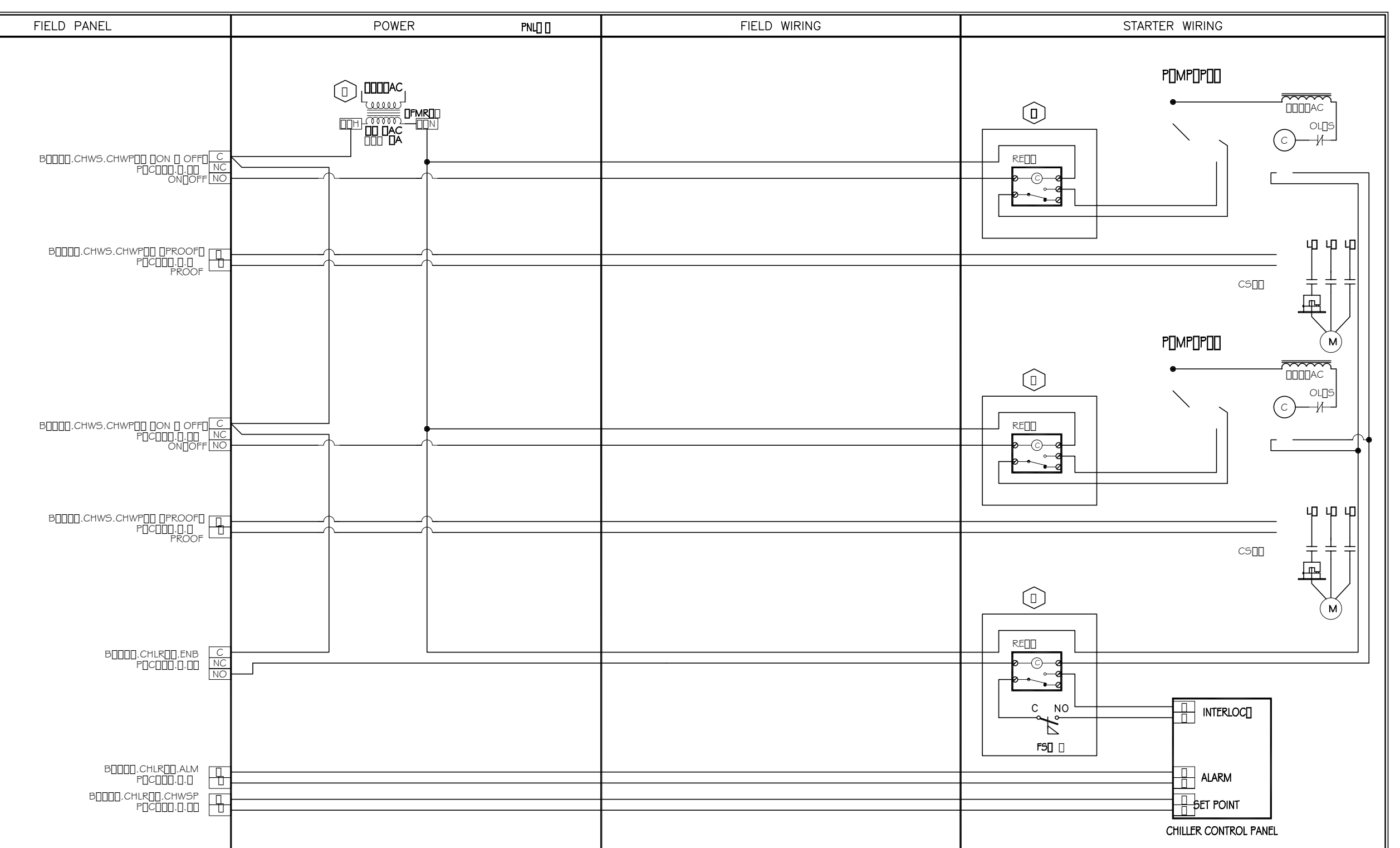
NO.	DESCRIPTION	DATE

SIEMENS 150 Teal Street Suite 100 St. Rose, LA 70087 USA Phone: (504)466-9300 Fax: (504)464-6800

SOF Riverine Warfare Center Stennis Space Center, MS

SIEMENS Building Automation

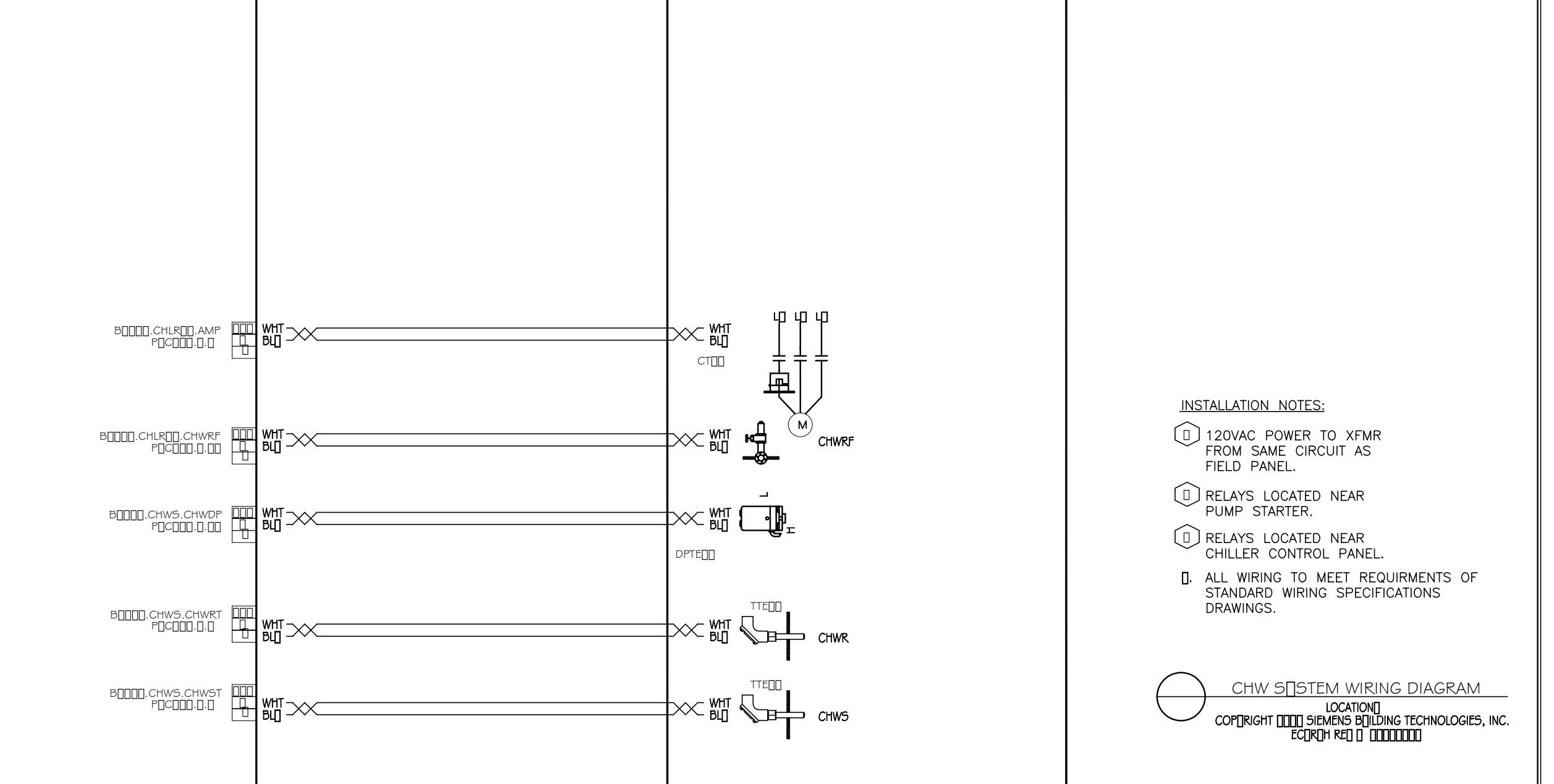
CHW System



NO.	DESCRIPTION	DATE

INSTALLATION NOTES:

- 120VAC POWER TO XFMR FROM SAME CIRCUIT AS FIELD PANEL.
- RELAYS LOCATED NEAR PUMP STARTER.
- RELAYS LOCATED NEAR CHILLER CONTROL PANEL.
- ALL WIRING TO MEET REQUIREMENTS OF STANDARD WIRING SPECIFICATIONS DRAWINGS.



NO.	DESCRIPTION	DATE

SIEMENS 150 Teal Street Suite 100 St. Rose, LA 70087 USA Phone: (504)466-9300 Fax: (504)464-6800

SOF Riverine Warfare Center Stennis Space Center, MS

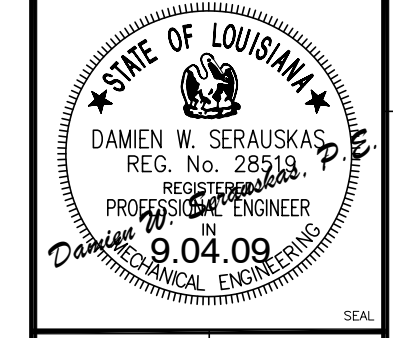
SIEMENS Building Automation

1 Air Cooled Reciprocating Chiller

NO.	DESCRIPTION	DATE



DAMMON ENGINEERING, INC.
 CHIEF ENGINEER CHIEF ARCHITECT
 DAMON, P.E. ROBERT WILTS
 1095 AVENUE SIBELL, LA 70468
 (985) 649-5832



REVIEWED BY: R. WILTSE
 PM/DM: T. ARTRIP
 CHIEF ENG/ARCH: P. DAMMON

DEPARTMENT OF THE NAVY
 NAVAL FACILITIES ENGINEERING COMMAND
 NAVAL AIR STATION JACKSONVILLE
 FT. GULF COAST
 MISSISSIPPI
 JOHN C. STENNIS SPACE CENTER
 SOF RIVERINE AND COMBATANT
 CRAFT OPERATIONS FACILITY - PRE-FINAL
 ENLARGED PLANS AND DETAILS

CODE ID NO. N4412	SIZE D
SCALE: AS SHOWN	
MAXIMO NO. #####	
STA. PROJ. NO. P-210	
WORK ORDER NO. 510247	
CONSTR. CONTR. NO. N62467-05-D-0096	
NAVFAC DRAWING NO. 15026740	
SHEET 93 OF 132	

M4.4

REV:DATE: FILE NAME: C:\Stennis Riverine Facility\Stennis Mech Master.dwg LAYOUT NAME: M4.4 PLOTTED: Thursday, September 10, 2009 - 11:00am

MECHANICAL LEGEND

ABBREVIATIONS		SYMBOLS	
ABV	ABOVE		FIRE DAMPER
AFF	ABOVE FINISHED FLOOR		ACCESS PANEL
AIR	MEDICAL OR COMPRESSED AIR		SPIN-IN DUCT FITTING
BDD	BACKDRAFT DAMPER		FLEX RUNOUT FROM SPIN-IN FITTING
BFP	BACKFLOW PREVENTER		CEILING DIFFUSER
BLM	BELOW		RETURN AIR GRILL
BOD	BOTTOM OF DUCT		45 DEG BRANCH TAKEOFF WITH DAMPER
BOP	BOTTOM OF PIPE		PIPE DOWN
CAP	CAPACITY		PIPE UP
CD	CONDENSER WATER RETURN		ISOLATION VALVE (PIPING)
CDR	CONDENSER WATER SUPPLY		BACKDRAFT DAMPER
CDS	CEILING DIFFUSER		MOTORIZED OBVD DAMPER
CFM	CUBIC FEET PER MINUTE		THERMOSTAT / TEMPERATURE SENSOR
CLG	CEILING OR COOLING (CONTEXT)		HUMIDITY SENSOR
CO	CLEANOUT		CARBON DIOXIDE SENSOR
CONT	CONTINUOUS OR CONTINUATION (CONTEXT)		
DN	DOWN		
DNW	DRAWING		
ELEC	ELECTRIC OR ELECTRICAL (CONTEXT)		
ESP	EXTERNAL STATIC PRESSURE		
ENT	ENTERING WATER TEMP		
EXIST	EXISTING		
FD	FLOOR DRAIN (PLUMBING); FIRE DAMPER (HVAC)		
FDG	FIRE DEPARTMENT CONNECTION		
FRM	FILTER RETURN GRILL		
FRG	FEET PER MINUTE		
FT	FEET		
GPM	GALLONS PER MINUTE		
HB	HOSE BIBB		
HP	HORSEPOWER		
HTG	HEATING		
HUB	HUB DRAIN		
HW	DOMESTIC HOT WATER		
HWR	DOMESTIC HOT WATER RETURN		
HZ	HERTZ (FREQUENCY)		
IN	INCHES		
INCL	INCLUDES, INCLUDING (CONTEXT)		
KWH	KILOWATT		
LAT	LEAVING AIR TEMP		
LWT	LEAVING WATER TEMP		
MBH	THOUSAND BTUH		
MECH	MECHANICAL		
MFR	MANUFACTURER		
MIN	MINUTES		
MTD	MOUNTED		
NTS	NOT TO SCALE		
O2	OXYGEN		
PD	PRESSURE DROP		
PLG	PLUMBING		
PSI	POUNDS PER SQUARE INCH (PRESSURE)		
PSIG	PSI (GAUGE PRESSURE)		
RD	ROOF DRAIN		
RG	REQUIRED		
REGD	RETURN GRILL		
RPM	REVOLUTIONS PER MINUTE		
SEC	SECONDS		
SENS	SENSIBLE		
SP	STATIC PRESSURE		
SQ FT	SQUARE FOOT/FEET (AREA)		
SWG	SIDEWALL GRILL / REGISTER		
TEMP	TEMPERATURE		
THRU	THROUGH		
TYP	TYPICAL		
VAC	VACUUM		
VERT	VERTICAL		
VTR	VENT THROUGH ROOF		
W	WITH		
W/O	WITHOUT		
WB	WET BULB (TEMP)		
WG	WATER GAUGE (PRESSURE)		
WPD	WATER PRESSURE DROP		
WSP	WATER SOURCE HEAT PUMP		

PLUMBING FIXTURE SCHEDULE

TAG	DESCRIPTION	ROUGH-IN			MODEL
		WASTE	CW	HW	
F-1	WATER CLOSET, WHITE VIT CHINA, FLUSH VALVE, WALLHUNG, SIPHON JET	3"	1"	--	KOHLER K-4330-0 KINGSTON, TOP SPUD W/ OPEN-FRT SEAT LESS CVR 1.6 GPF SENSOR FLUSH VLV
F-1A	WATER CLOSET, WHITE VIT CHINA, FLUSH VALVE, WALLHUNG, SIPHON JET ADA/UFAS HEIGHT	3"	1"	--	KOHLER K-4330-0 KINGSTON, TOP SPUD W/ OPEN-FRT SEAT LESS CVR 1.6 GPF SENSOR FLUSH VLV (MOUNTED AT ADA-HEIGHT)
F-2	WALL HUNG LAV, WHITE VIT CHINA 19x17 RECT., 4" CENTERS, OPEN GRID STRAINER	1 1/2"	1/2"	1/2"	KOHLER CHESAPEAKE K-1728 WITH SLOAN SF-2350 SENSOR-OP FAUCET W/ AERATOR
F-2A	WALL HUNG LAV, WHITE VIT CHINA 19x17 RECT., 4" CENTERS, OPEN GRID STRAINER, OFFSET TAILPIECE, ADA/UFAS HEIGHT	1 1/2"	1/2"	1/2"	KOHLER CHESAPEAKE K-1728 WITH SLOAN SF-2350 SENSOR-OP FAUCET W/ AERATOR
F-3	FLUSH-VALVE URINAL	2"	3/4"	--	KOHLER DEXTER K-5016-ET ELONGATED URINAL, TOP SPUD, WITH STRAINER AND SLOAN 1.0 GPF SENSOR-OP FLUSH VALVE
F-3A	ADA/UFAS FLUSH-VALVE URINAL	2"	3/4"	--	KOHLER DEXTER K-5016-ET ELONGATED URINAL, TOP SPUD, WITH STRAINER AND SLOAN 1.0 GPF SENSOR-OP FLUSH VALVE, ADA HEIGHT
F-4	CAST TERRAZZO MOP SINK 24x24x12 WITH 6" DROP FRONT, MOP HANGER, SVC FAUCET, HOSE, & HOOK	1 1/2"	1/2"	1/2"	FIAT TSB3010 WITH STAINLESS BUMPER GAURO, HANGER, SERVICE FAUCET
F-5	WHITE CAST IRON SERVICE SINK REAR MOUNT SERVICE FAUCET	3"	3/4"	3/4"	KOHLER BANNON K-6714 DRILLED BACK 22"x18" ENAMELED CAST IRON SINK WITH TRAP AND FAUCET (FAUCET K-8905 CHROME FINISH)
F-6	SINGLE STATION WALL MOUNTED WATER COOLER	1 1/2"	1/2"	--	ELKAY EZS WALL HUNG SINGLE WATER FOUNTAIN WITH FRONT PUSHBUTTON
F-6A	BARRIER-FREE DUAL STATION WATER COOLER	1 1/2"	1/2"	--	ELKAY EZSTL8C WALL HUNG DUAL WATER FOUNTAIN WITH FRONT PUSHBUTTON, STD & ADA HEIGHT
F-7	PRESSURE-BALANCED SHOWER VALVE WITH TRIM	2"	1/2"	1/2"	KOHLER K-T6910-4A SHOWER TRIM WITH K-304 PRESS.BALANCED VLV BODY,
F-7A	ADA/UFAS COMPLIANT SHOWER VALVE WITH LEVER HANDLE CONTROLS, HANDHELD PERSONAL SHOWER, AND ADJUSTABLE ROD SUPPORT	2"	1/2"	1/2"	AMERICAN STANDARD 1662.551 TRIM WITH PRESS.BALANCED VLV BODY, INCL. SHOWER HEAD, HOSE, & SLIDE BAR
F-8	EMERGENCY SHOWER / EYEWASH FLOOR-SUPPORTED WITH TEMPERING VALVE, PULL HANDLE, AND DUST CAPS	2"	1/2"	1/2"	BRADLEY MODEL S19-310AC COMBINATION SHOWER / EYEWASH ON FLOOR STAND WITH THERMOSTATIC MIXING VALVE
F-9	STAINLESS STEEL TWO-COMP KITCHEN SINK WITH LEVER HANDLE GOOSENECK FAUCET AND RESIDENTIAL DISPOSAL	3"	3/4"	3/4"	ELKAY PSR3321 SINK, SELF-RIMMING, WITH LEVER HANDLE GOOSENECK FAUCET AND RESIDENTIAL DISPOSAL

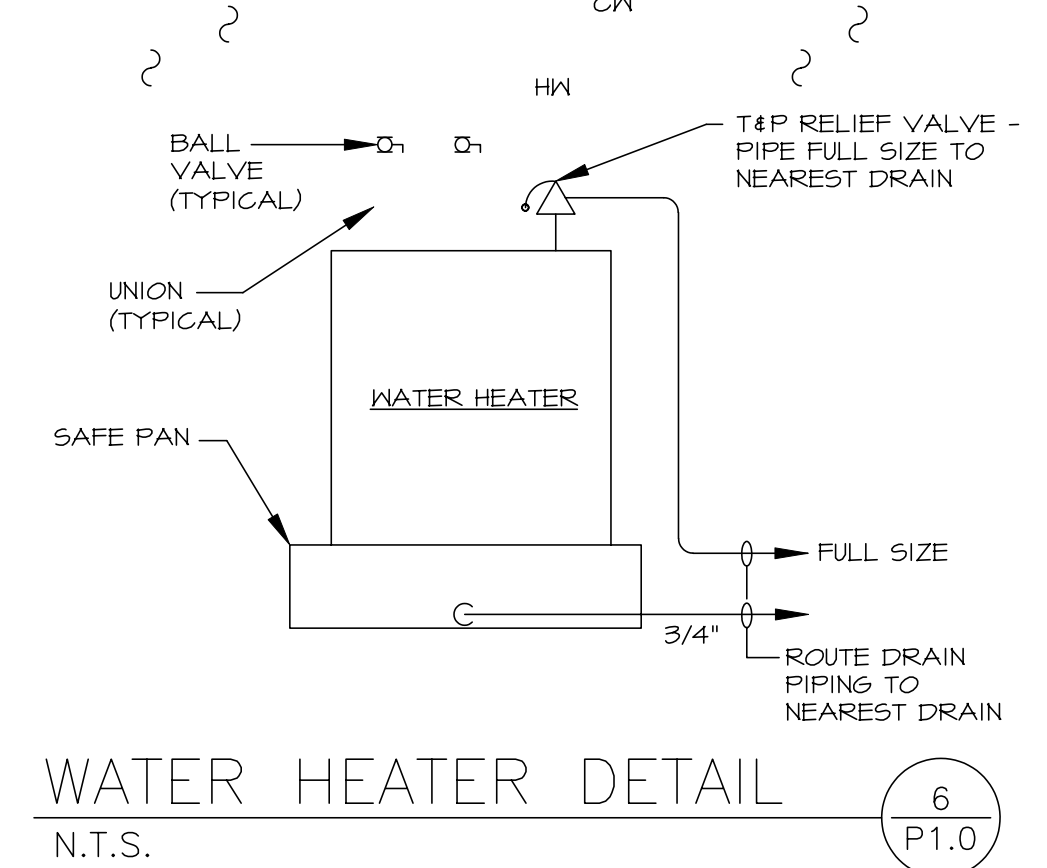
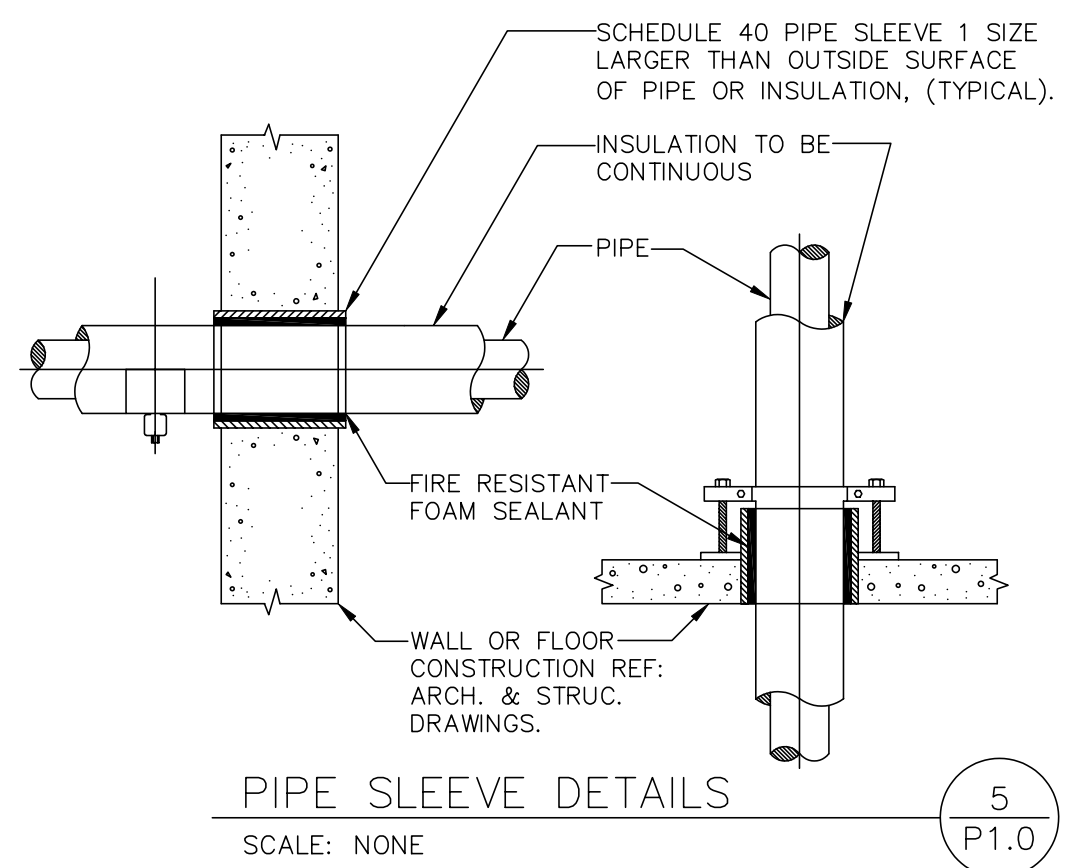
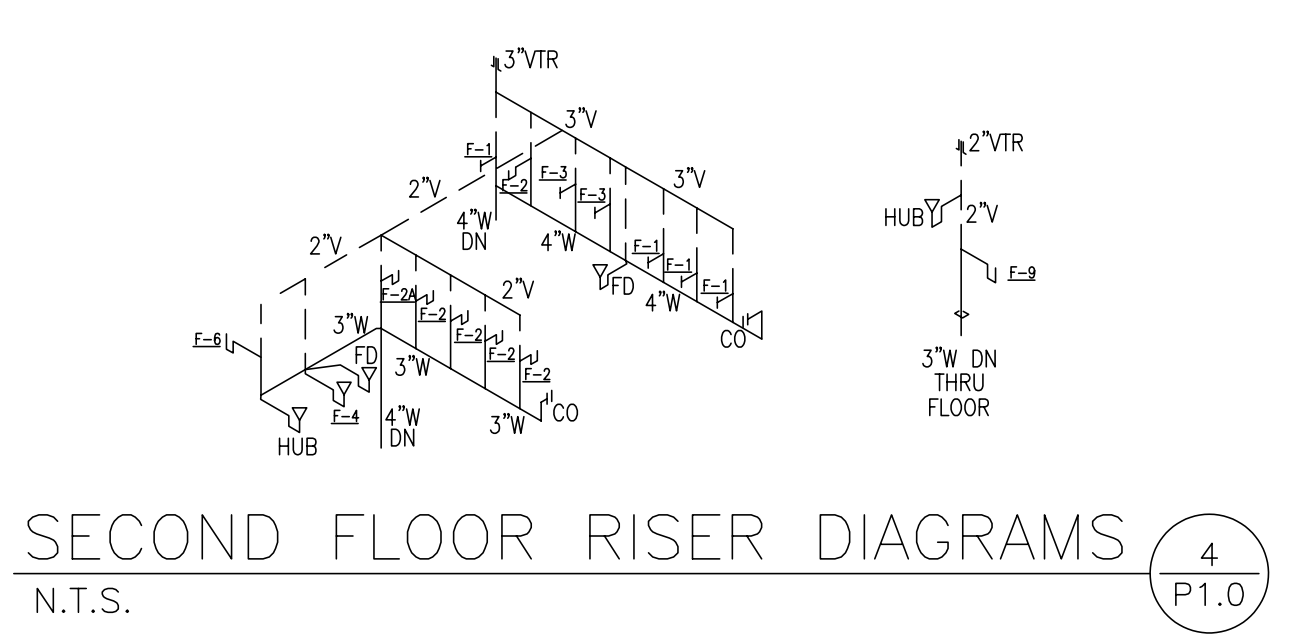
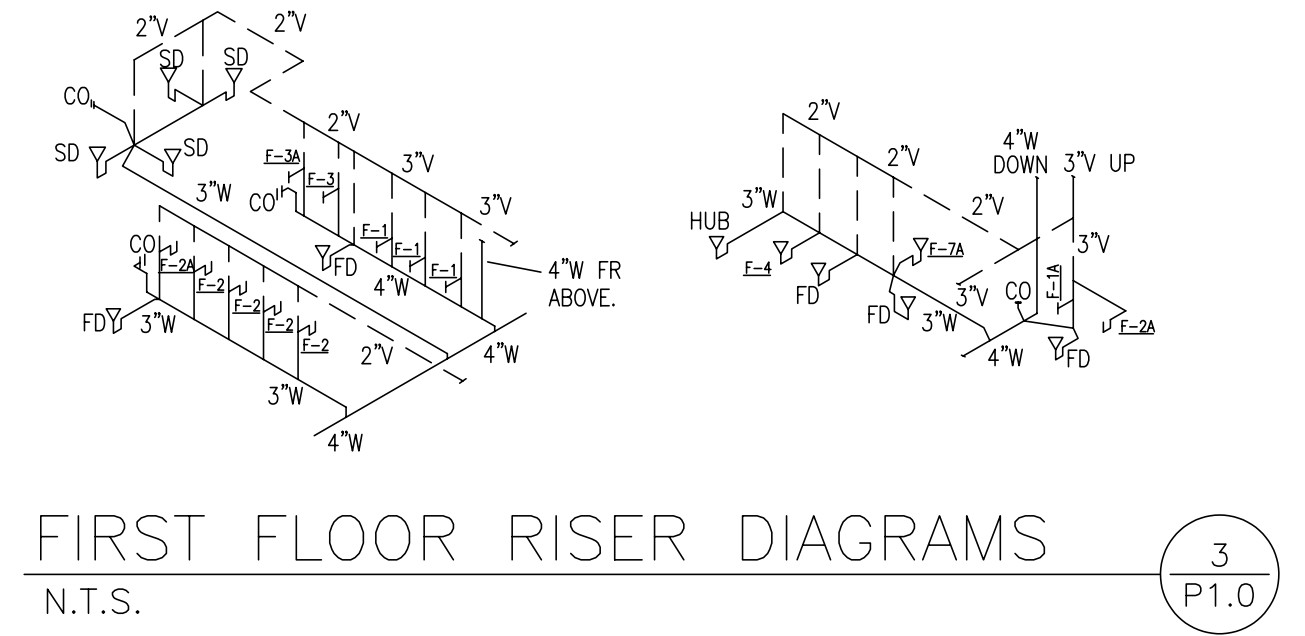
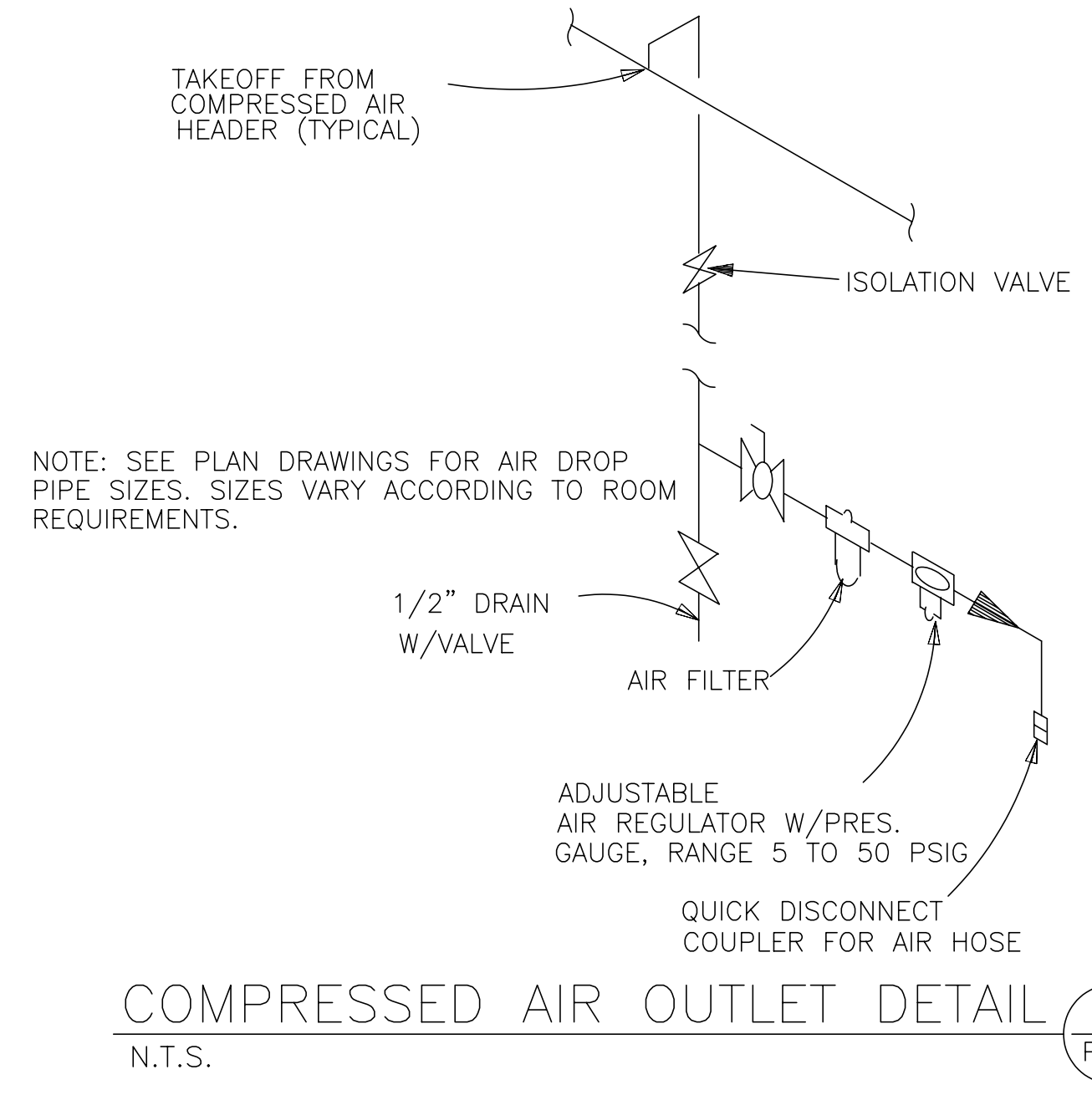
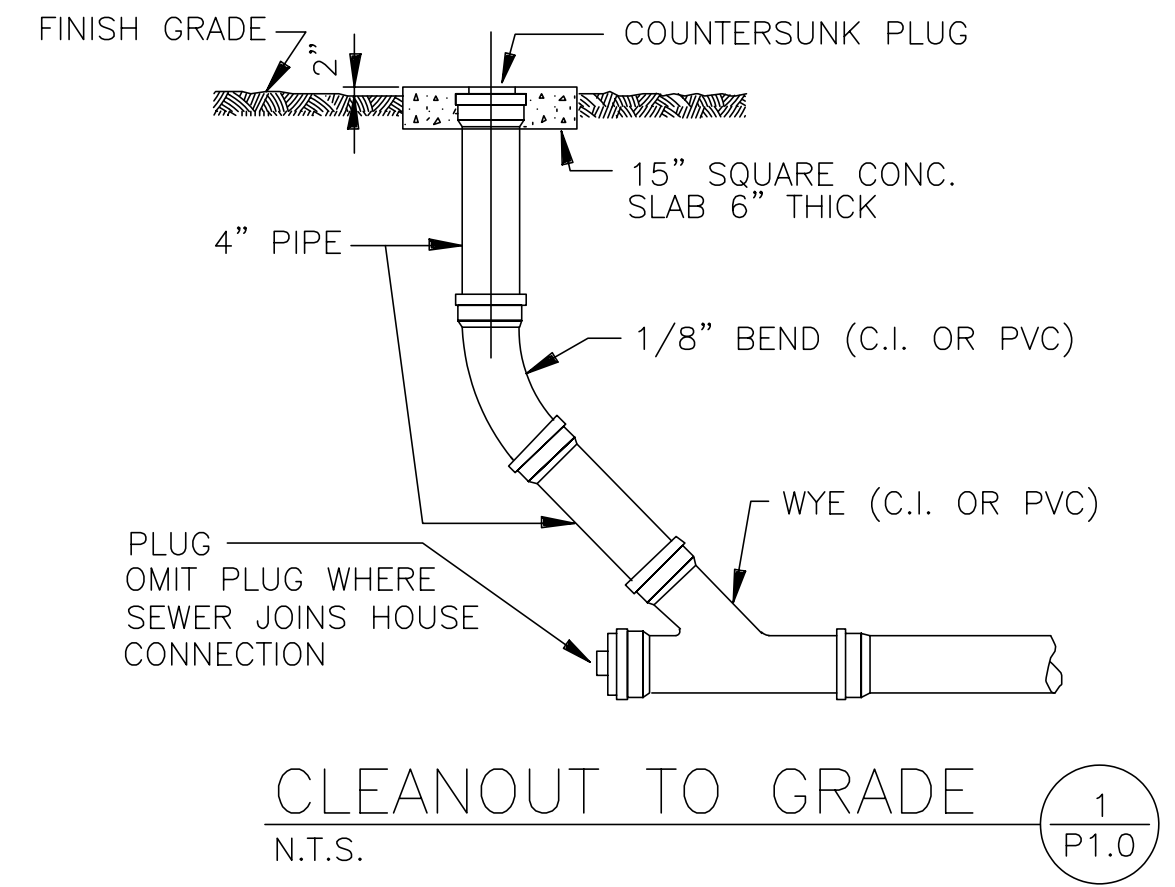
INSULATE ALL WASTE AND SUPPLY PIPING FOR ADA-COMPLIANT FIXTURES, OR PROVIDE TRUE-BRO LAV-GUARD(TM) SYSTEM.

ELECTRIC WATER HEATER SCHEDULE

TAG	TYPE	CAP GAL	RECOVERY @ 90°F RISE	TOTAL KW	# OF ELEMENTS	ELEC VOLT/PH	LOCATION	REMARKS
WH-1	STORAGE	120	110 GPH	24.0	06	480/3	FIRST FLOOR	RHEEM ME105-24
WH-2	LOWBOY	10	20 GPH	3.0	01	208/1	SECOND FLOOR	RHEEM EGSP10
WH-3	INSTANT	--	INSTANT	3.0	01	208/1	BREAK AREA	EEMAX SP3208

STANDBY LOSSES FROM UNITS SHALL COMPLY WITH ASHRAE 90.1, CURRENT EDITION. WH-1 SHALL HAVE MIN ENERGY FACTOR OF 0.93.

DAMIEN W. SERAUSKAS, P.E.
PROFESSIONAL ENGINEERING SERVICES
15 CYPRESS POINT LANE NEW ORLEANS, LA 70131
VOICE: (504)866-2600 FAX: (504)218-8480



NAVFAC ENGINEERING SERVICES

DAMMON ENGINEERING, INC.

STATE OF MISSISSIPPI PROFESSIONAL ENGINEER REG. NO. 28519

REVIEWED BY: R. WILTSE
P.M./D.M. T. ARTRIP
CHIEF ENG./ARCH. P. DAMMON

NAVAL FACILITIES ENGINEERING COMMAND
NAVAL AIR STATION JACKSONVILLE
JOHN C. STENNIS SPACE CENTER
SOF RIVERINE AND COMBATANT CRAFT OPERATIONS FACILITY - PRE-FINAL

PLUMBING LEGEND AND SCHEDULES

CODE ID. NO. N4412 SIZE D
SCALE: AS SHOWN
MAXIMO NO. #####
STA. PROJ. NO. P-210
WORK ORDER NO. 510247
CONSTR. CONTR. NO. N62467-05-D-0096
NAVFAC DRAWING NO. 15026741
SHEET 94 OF 132

P1.0

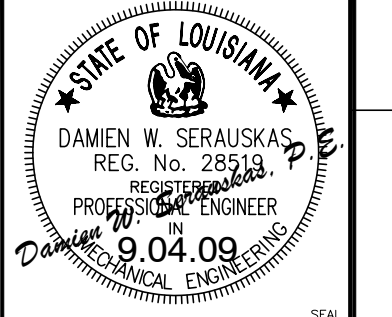
REVD/DATE: FILE NAME: C:\Stennis Riverine Facility\Stennis Mech Master.dwg LAYOUT NAME: P1.0 PLOTTED: Thursday, September 10, 2009 - 11:01am

DAMIEN W. SERAUSKAS, P.E.
 PROFESSIONAL ENGINEERING SERVICES
 15 CYPRESS POINT LANE NEW ORLEANS, LA 70131
 VOICE: (504)866-2600 FAX: (504)218-8480

DATE	DESCRIPTION



DAMMON ENGINEERING, INC.
 CHIEF ENGINEER: DAMON WILTSE
 CHIEF ARCHITECT: ROBERT WILTSE
 1095 FLORIDA AVENUE
 SUDELL, LA 70468
 (888) 649-5832
 SEPT 4, 2009

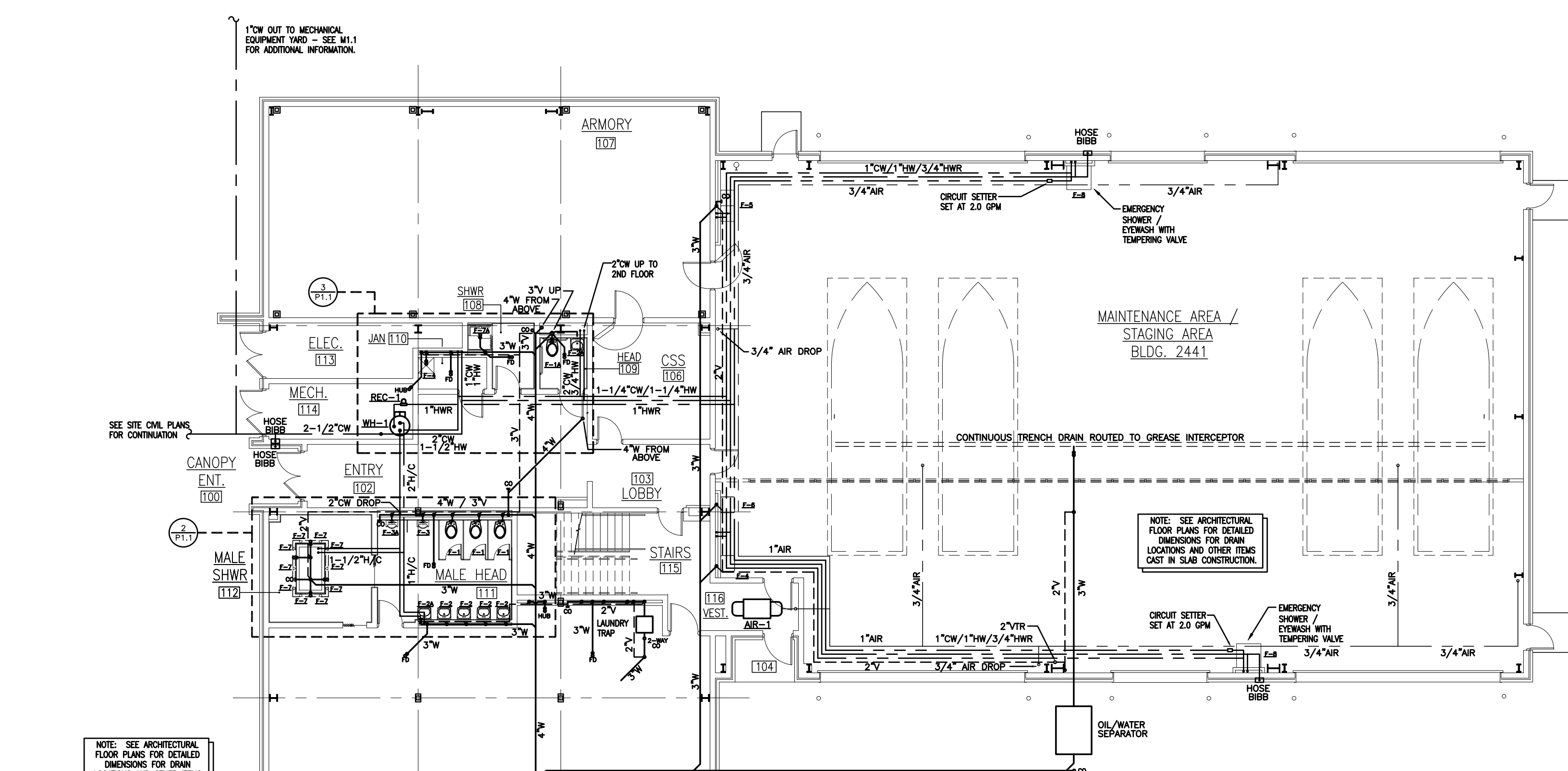


REVIEWED BY: R. WILTSE
 PM/DM: T. ARTRIP
 CHIEF ENG/ARCH: P. DAMMON

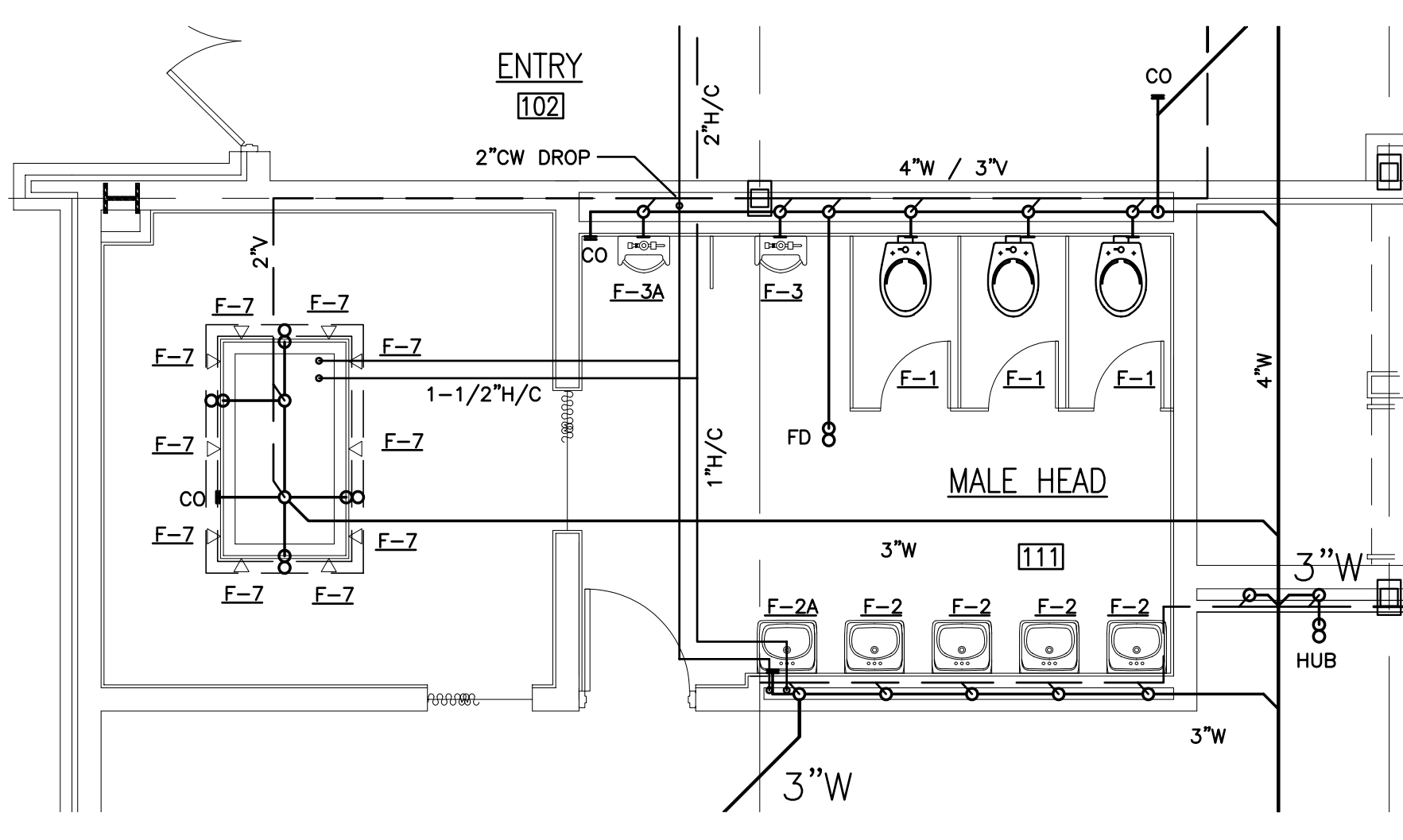
DEPARTMENT OF THE NAVY
 NAVAL FACILITIES ENGINEERING COMMAND
 NAVAL FACILITIES ENGINEERING COMMAND SOUTHEAST
 1ST GULF COAST
 JOHN C. STENNIS SPACE CENTER
 MISSISSIPPI
 SOF RIVERINE AND COMBATANT
 CRAFT OPERATIONS FACILITY - PRE-FINAL
 1ST FLOOR PLUMBING PLAN AND DETAILS

CODE ID NO.	SIZE	D
N4412	AS SHOWN	
MAXIMO NO.	#####	
STA. PROJ. NO.	P-210	
WORK ORDER NO.	510247	
CONSTR. CONTR. NO.	N62467-05-D-0096	
NAVFAC DRAWING NO.	15026742	
SHEET	95	OF 132

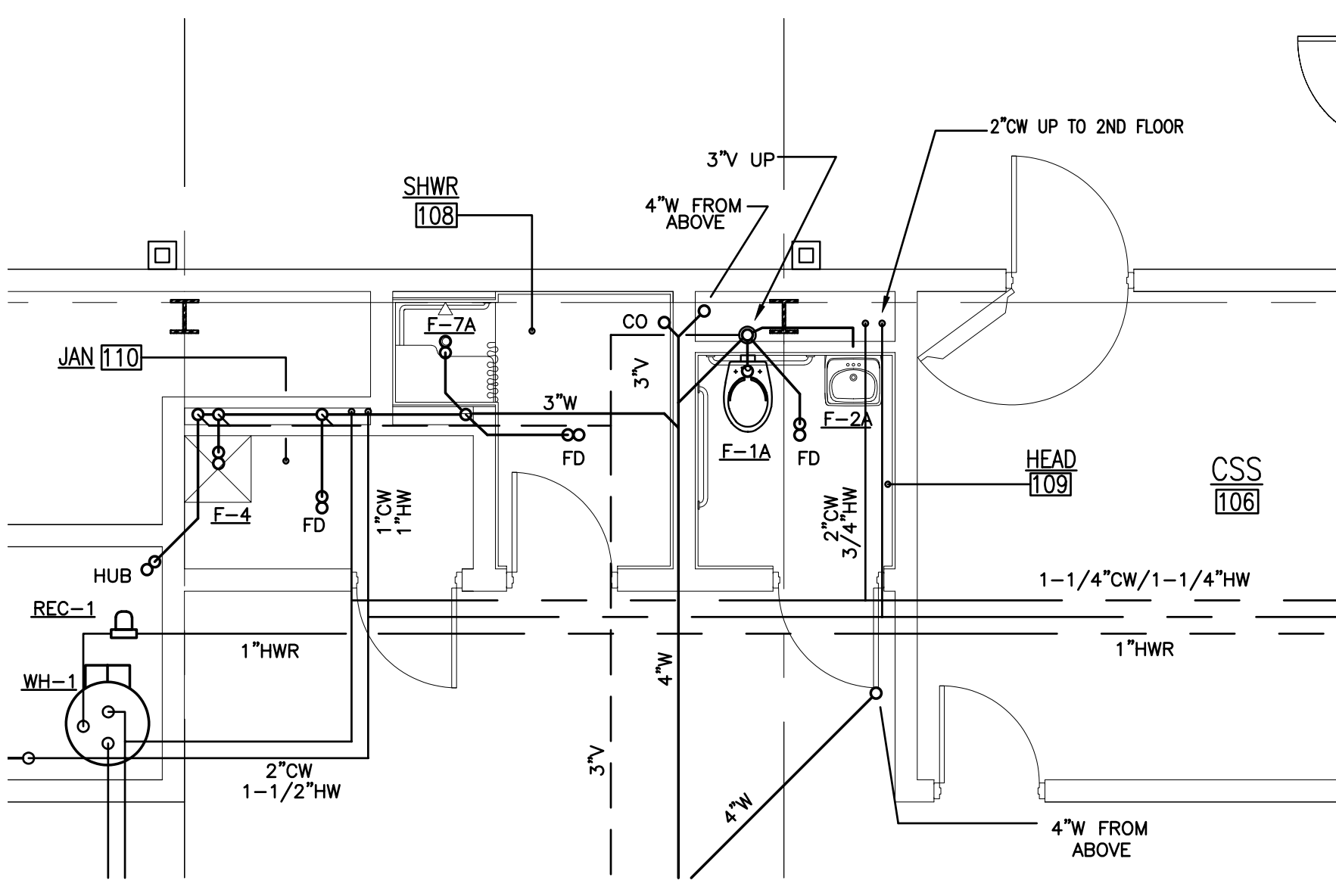
P1.1
DRAWING REVISION: 01 JAN 2009



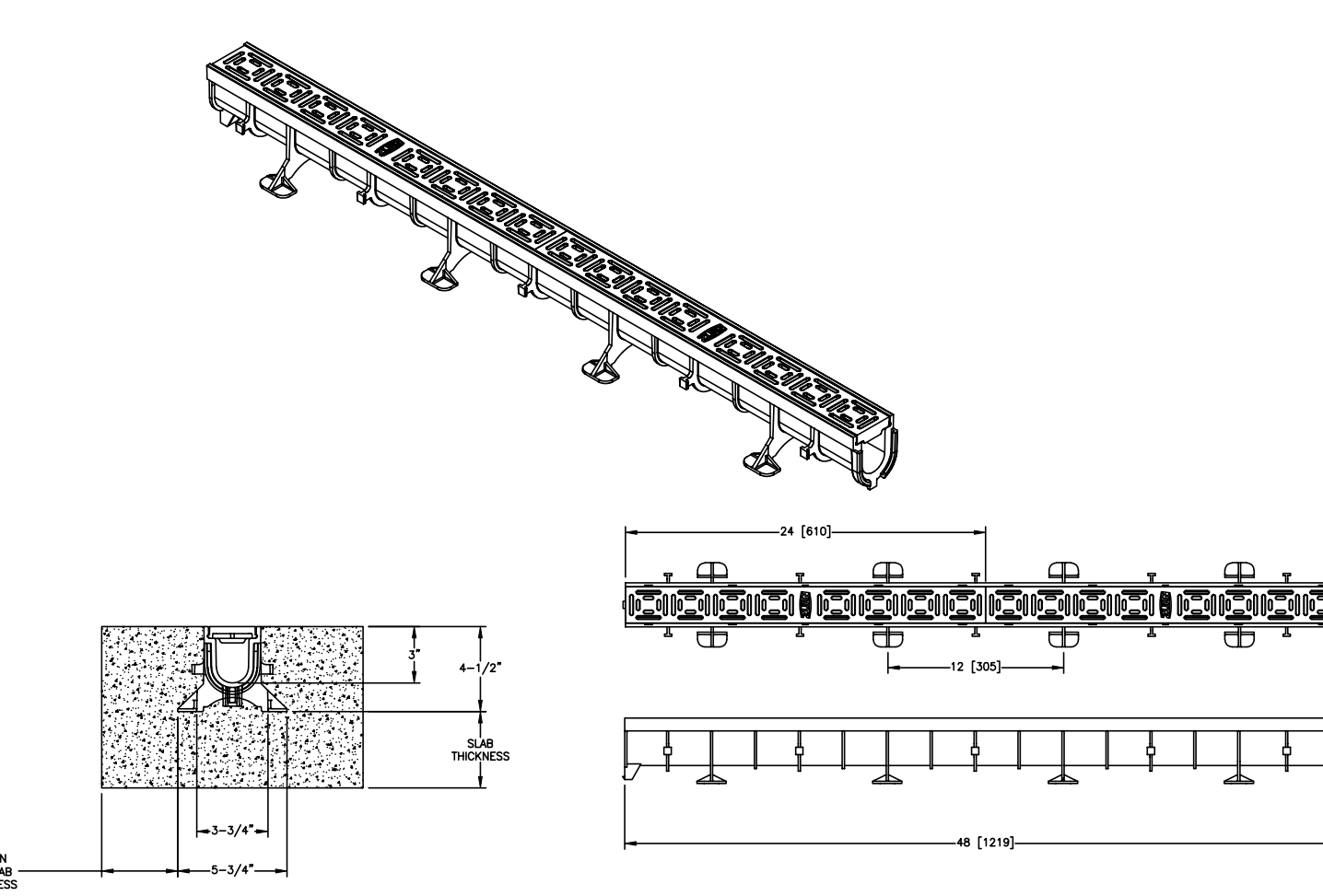
OPERATIONS BUILDING FIRST FLOOR PLUMBING PLAN
 SCALE: 3/32"=1'-0"



ENLARGED PARTIAL 1ST FLOOR PLUMBING PLAN
 SCALE: 1/4"=1'-0"



ENLARGED PARTIAL 1ST FLOOR PLUMBING PLAN
 SCALE: 1/4"=1'-0"



SHOWER TRENCH DRAIN INSTALLATION DETAIL
 SCALE: NONE

NOTE: SEE ARCHITECTURAL FLOOR PLANS FOR DETAILED DIMENSIONS FOR DRAIN LOCATIONS AND OTHER ITEMS CAST IN SLAB CONSTRUCTION.

NOTE: ROUTE 1/4" COPPER TRAP PRIMER VALVE LOCATIONS AT WET WALLS. VERIFY TRAP PRIMER VALVE LOCATIONS IN FIELD.

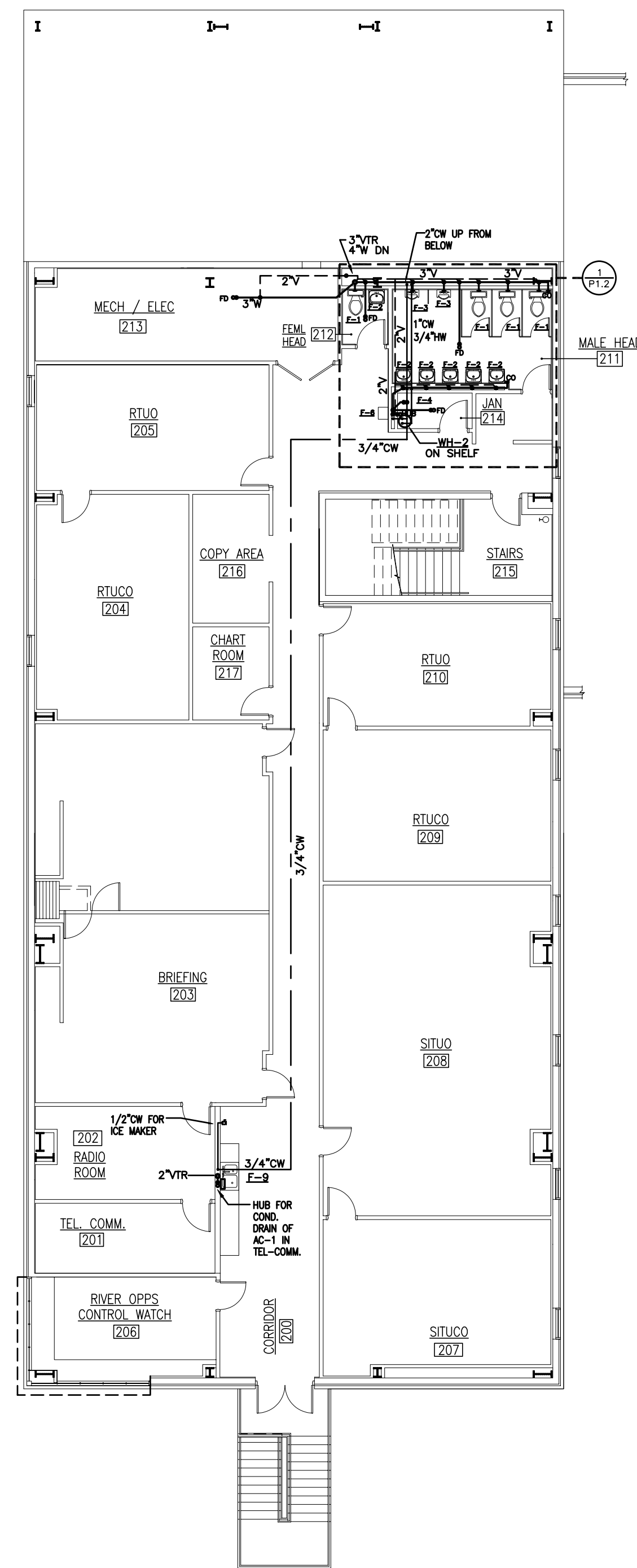
1" CW OUT TO MECHANICAL EQUIPMENT YARD - SEE M1.1 FOR ADDITIONAL INFORMATION.

NOTE: SEE ARCHITECTURAL FLOOR PLANS FOR DETAILED DIMENSIONS FOR DRAIN LOCATIONS AND OTHER ITEMS CAST IN SLAB CONSTRUCTION.

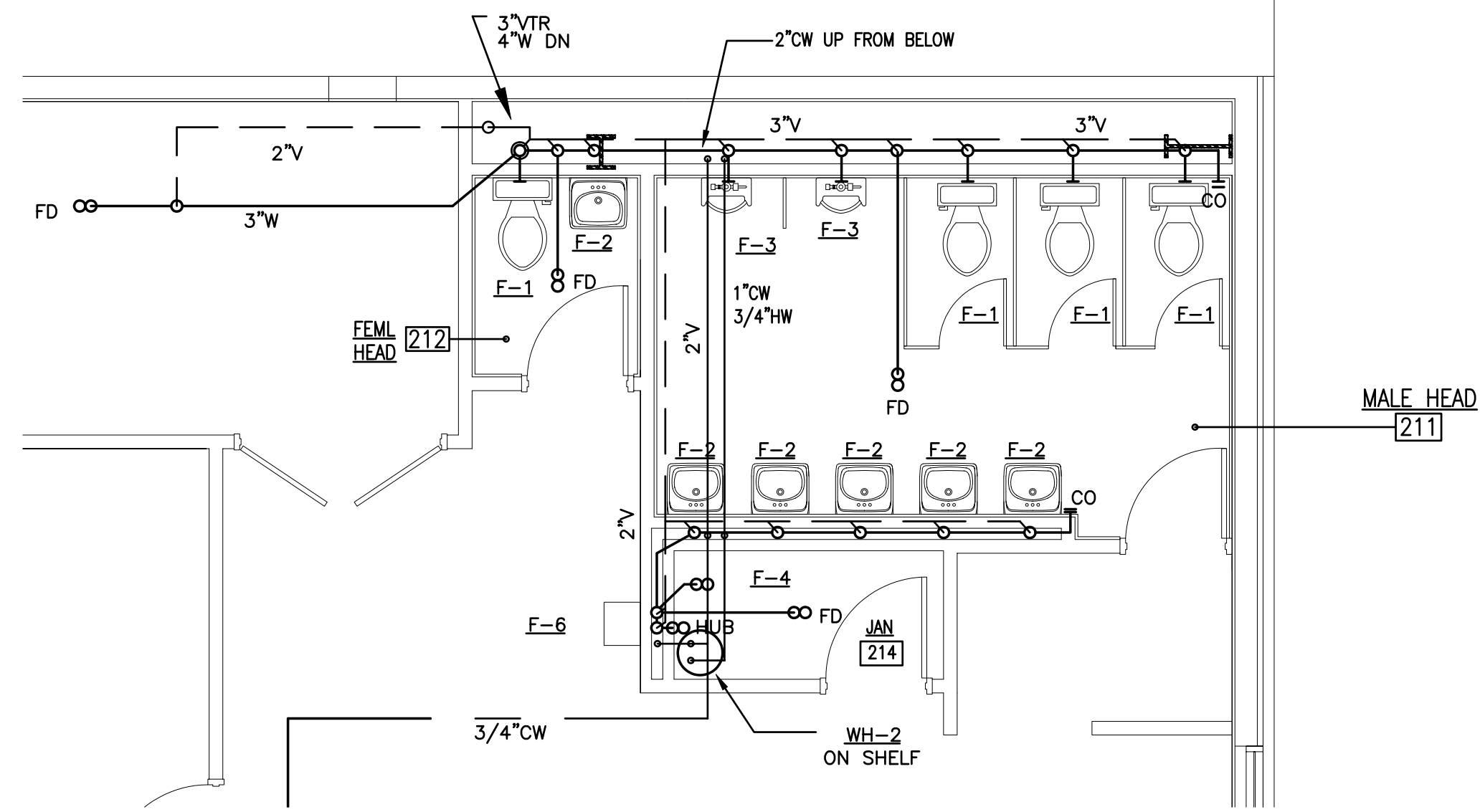
REV DATE: FILE NAME: C:\Stennis Riverine Facility\Stennis Mech Master.dwg LAYOUT NAME: P1.1 PLOTTED: Thursday, September 10, 2009 11:01am

REV/DATE: FILE NAME: C:\Stennis Riverine Facility\Stennis Mech Master.dwg LAYOUT NAME: P1.2 PLOTTED: Thursday, September 10, 2009 - 11:01am

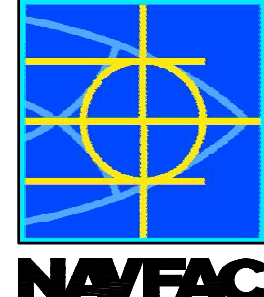
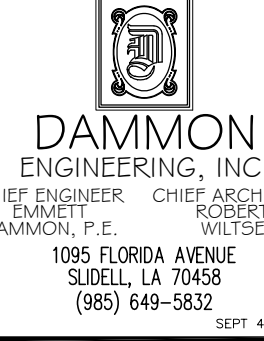

OPERATIONS BUILDING SECOND FLOOR PLUMBING PLAN
SCALE: 3/32"=1'-0"



ENLARGED PARTIAL 2ND FLOOR PLUMBING PLAN
SCALE: 1/4"=1'-0"



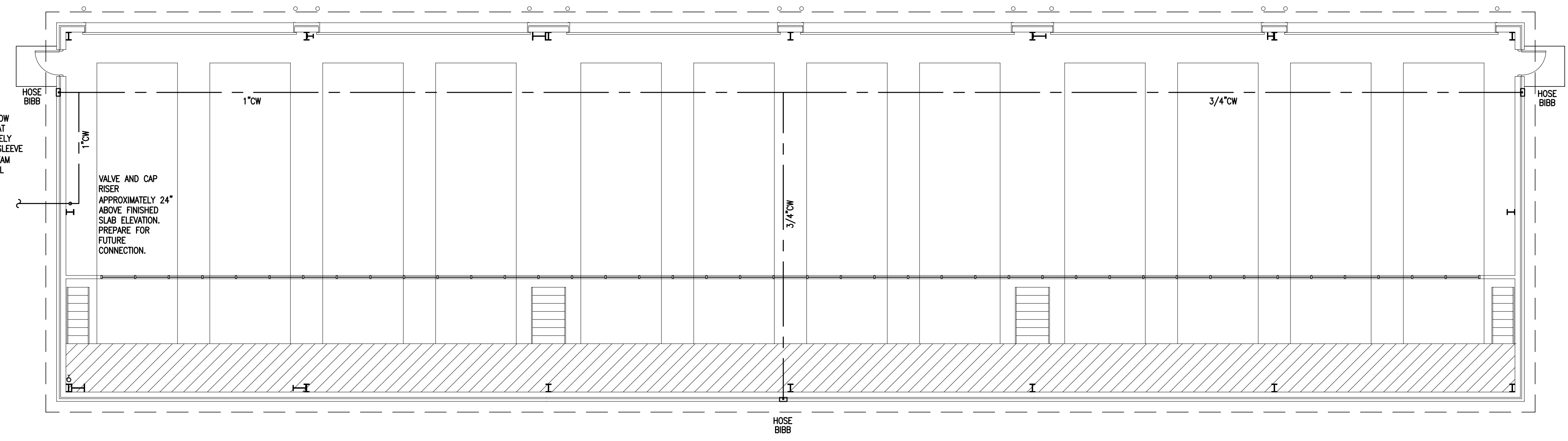
DAMIEN W. SERAUSKAS, P.E.
PROFESSIONAL ENGINEERING SERVICES
15 CYPRESS POINT LANE, NEW ORLEANS, LA 70131
VOICE: (504)866-2600 FAX: (504)218-8480

APPROVED	DATE
DESCRIPTION	
 NAVFAC	
 DAMMON ENGINEERING, INC. <small>CHIEF ENGINEER: DAMON T. WILTSE CHIEF ARCHITECT: ROBERT WILTSE 1095 FLORIDA AVENUE SUDBELL, LA 70458 (885) 649-5832 SEPT 4, 2009</small>	
 <small>DAMIEN W. SERAUSKAS REG. NO. 28519 REGISTERED PROFESSIONAL ENGINEER IN MECHANICAL ENGINEERING 9.04.09</small>	
REVIEWED BY: R. WILTSE	
PM/DM: T. ARRIP	
CHIEF ENG/ARCH: P. DAMMON	
DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND NAVAL FACILITIES ENGINEERING COMMAND SOUTHEAST NAVAL AIR STATION JACKSONVILLE JOHN C. STENNIS SPACE CENTER MISSISSIPPI SOF RIVERINE AND COMBATANT CRAFT OPERATIONS FACILITY - PRE-FINAL OPS BLDG SECOND FLOOR PLUMBING PLAN	
CODE ID NO. N4412	SIZE D
SCALE: AS SHOWN	
MAXIMO NO. #####	
STA. PROJ. NO. P-210	
WORK ORDER NO. 510247	
CONSTR. CONTR. NO. N62467-05-D-0096	
NAVFAC DRAWING NO. 15026743	
SHEET 96 OF 132	
P1.2	
<small>DRAWING REVISION: 01 JAN 2009</small>	

DAMIEN W. SERAUSKAS, P.E.
PROFESSIONAL ENGINEERING SERVICES
 15 CYPRESS POINT LANE NEW ORLEANS, LA 70131
 VOICE: (504)866-2600 FAX: (504)218-8480

ROUTE NEW 1" CW PIPING BELOW GRADE AND TURN UP INTO BOAT STORAGE BUILDING APPROXIMATELY WHERE SHOWN. COORDINATE SLEEVE REQUIREMENTS AND SLAB / BEAM PENETRATIONS WITH STRUCTURAL ENGINEER.

VALVE AND CAP RISER APPROXIMATELY 24" ABOVE FINISHED SLAB ELEVATION. PREPARE FOR FUTURE CONNECTION.



BOAT STORAGE BUILDING PLUMBING PLAN
 SCALE: 1/8"=1'-0"

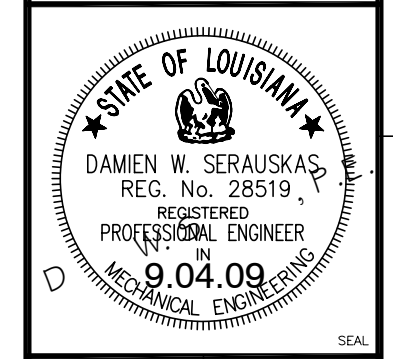


REVDATE: FILE NAME: C:\Stennis Riverine Facility\Stennis Mech Master.dwg LAYOUT NAME: P2.1 PLOTTED: Thursday, September 10, 2009 - 11:03am

SYN	DESCRIPTION	DATE	APPR



DAMMON ENGINEERING, INC.
 CHIEF ENGINEER CHIEF ARCHITECT
 DAMONETT ROBERT
 DAMMON, P.E. WILTSE
 1095 FLORIDA AVENUE
 SLIDELL, LA 70458
 (985) 649-5832
 SEPT 4, 2009



REVIEWED BY: R. WILTSE
 PIA/DM: T. ARTSP
 CHIEF ENG/ARCH: P. DAMMON

DEPARTMENT OF THE NAVY
 NAVAL FACILITIES ENGINEERING COMMAND
 NAVAL FACILITIES ENGINEERING COMMAND SOUTHEAST
 1ST GULF COAST DISTRICT
 JOHN C. STENNIS SPACE CENTER
 MISSISSIPPI
 SOF RIVERINE AND COMBATANT
 CRAFT OPERATIONS FACILITY - PRE-FINAL
 BOAT STORAGE BUILDING PLUMBING PLAN

CODE ID. NO. N4412	SIZE D
SCALE: AS SHOWN	
MAXIMO NO. #####	
STA. PRJ. NO. P-210	
WORK ORDER NO. 510247	
CONSTR. CONTR. NO. N62467-05-D-0096	
NAVFAC DRAWING NO. 15026744	
SHEET 97 OF 132	

P2.1

DRAWING REVISION: 01 JAN 2009