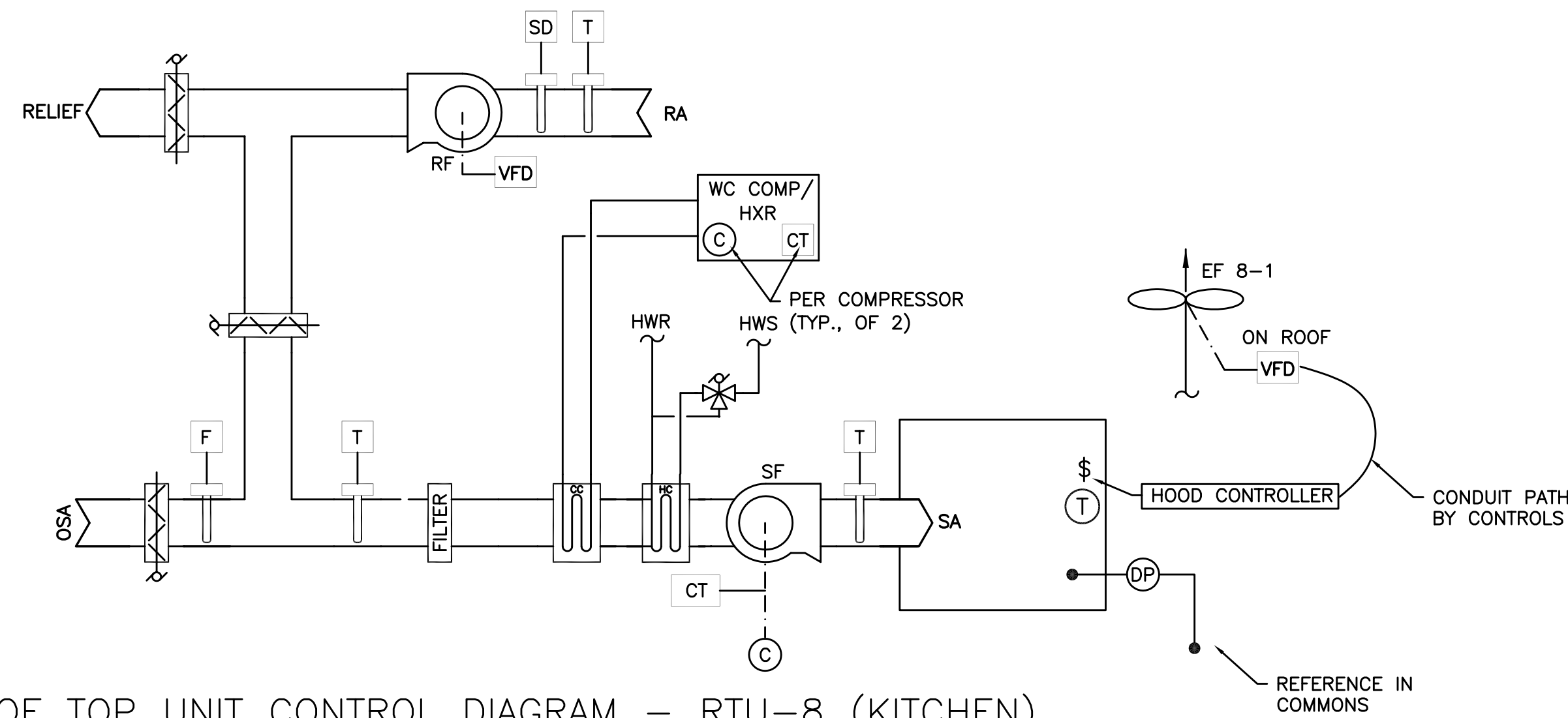
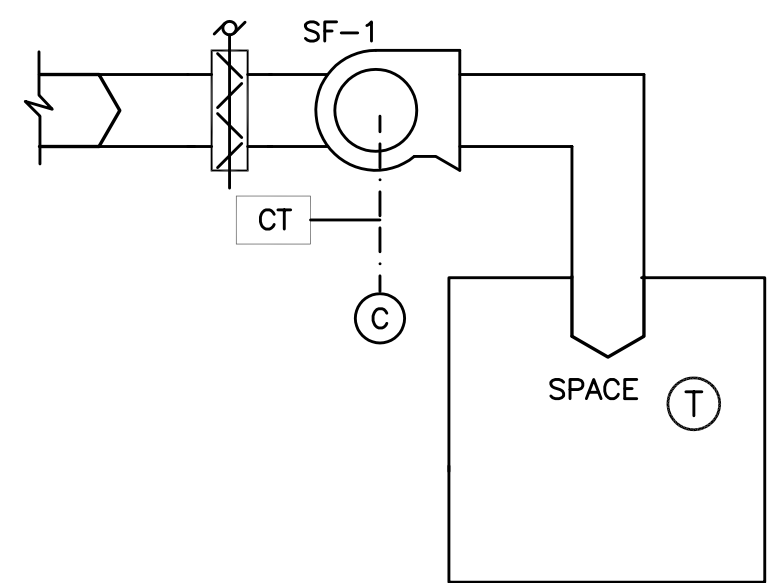


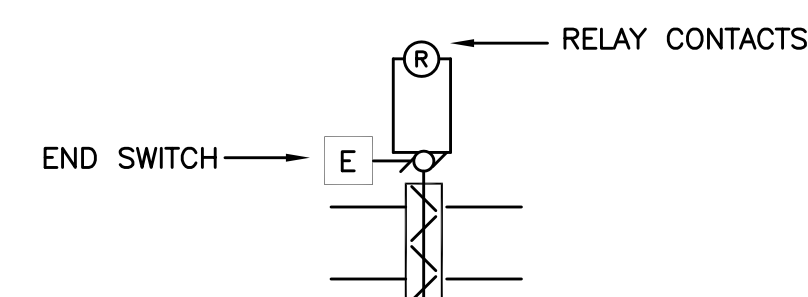
1 ROOF TOP UNIT CONTROL DIAGRAM - RTU-7 (MAIN GYM)
M5.02 SCALE: DETAIL



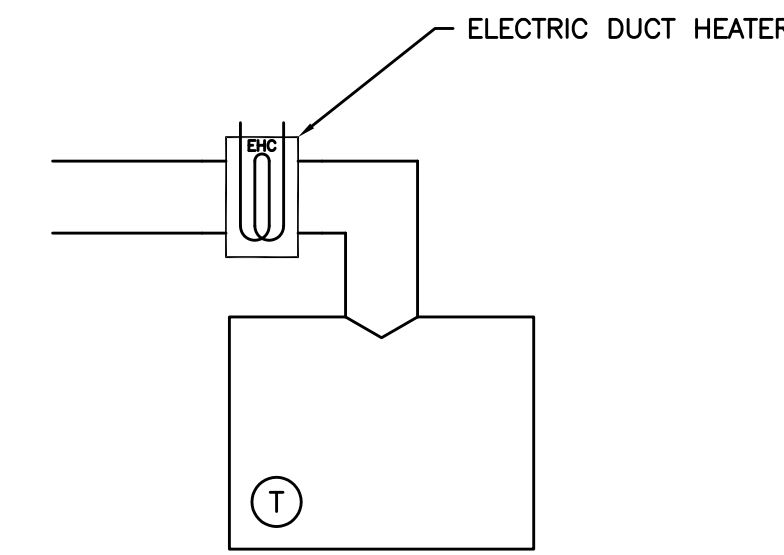
2 ROOF TOP UNIT CONTROL DIAGRAM - RTU-8 (KITCHEN)
M5.02 SCALE: DETAIL



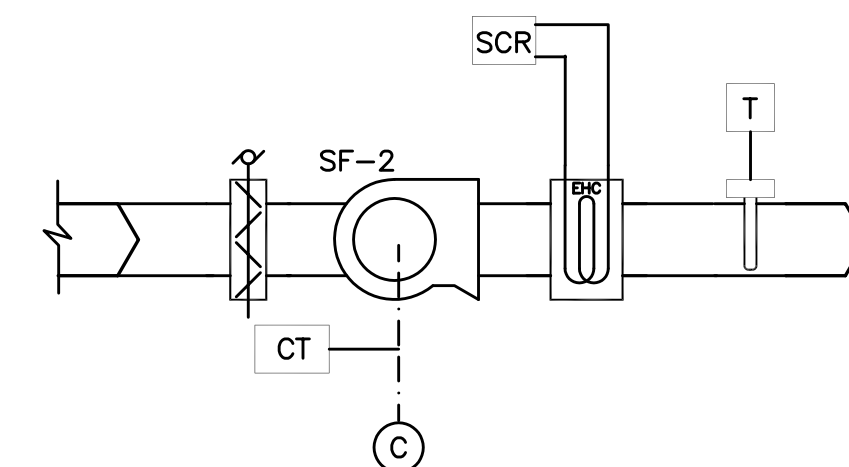
3 SUPPLY FAN UNIT CONTROL DIAGRAM - SF-1
M5.02 SCALE: DETAIL



4 FIRE/SMOKE DAMPER CONTROL DIAGRAM
M5.02 SCALE: DETAIL



5 ELECTRIC DUCT HEATER
M5.02 SCALE: DETAIL



6 SUPPLY FAN UNIT CONTROL DIAGRAM - SF-2
M5.02 SCALE: DETAIL

CONTROLS FOR RTU-7, SEE 1/M5.02

POINT DESCRIPTION	INPUT		OUTPUT		ALARM
	DIGITAL	ANALOG	DIGITAL	ANALOG	
SUPPLY FAN START/STOP			X		
RETURN FAN START/STOP			X		
SUPPLY FAN VFD STATUS	X				X
RETURN FAN VFD STATUS	X				X
SUPPLY FAN SPEED				X	
RETURN FAN SPEED				X	
SPACE TEMPERATURE		X			
RETURN AIR CO2 LEVEL		X			X
MIXED AIR TEMPERATURE		X			
SMOKE DETECTOR	X				X
DISCHARGE AIR TEMPERATURE		X			
OUTSIDE DAMPER POSITION				X	
EXHAUST DAMPER POSITION				X	
RETURN AIR DAMPER POSITION				X	
RETURN AIR TEMP			X		
DISCHARGE DAMPER				X	
HEATING VALVE				X	
OUTSIDE AIRFLOW		X			

CONTROLS FOR RTU-8 SEE 2/M5.02

POINT DESCRIPTION	INPUT		OUTPUT		ALARM
	DIGITAL	ANALOG	DIGITAL	ANALOG	
SUPPLY FAN START/STOP			X		
RETURN FAN START/STOP			X		
SUPPLY FAN STATUS	X				X
RETURN FAN STATUS	X				X
DISCHARGE AIR TEMPERATURE		X			
MIXED AIR TEMPERATURE		X			
RETURN AIR TEMP		X			
SPACE TEMPERATURE		X			
COMPRESSOR 1 SUCTION PRESSURE		X			X
COMPRESSOR 2 SUCTION PRESSURE		X			X
SMOKE DETECTOR	X				X
OUTSIDE DAMPER POSITION				X	
OSA FLOW		X			
EXHAUST DAMPER POSITION				X	
RETURN AIR DAMPER POSITION				X	
REVERSING VALVE			X		
COMPRESSOR COMMAND (MAX. 2 COMPRESSORS)			X		
COMPRESSOR STATUS (MAX. 2 COMPRESSORS)		X			X
COMPRESSOR DEMAND MODULATION				X	
HEATING VALVE				X	
RA FAN SPEED				X	
SPACE PRESSURE		X			
KITCHEN HOOD ENABLE/DISABLE			X		
EXHAUST FAN STATUS	X				X

CONTROLS FOR SF-1 SEE 3/M5.02

POINT DESCRIPTION	INPUT		OUTPUT		ALARM
	DIGITAL	ANALOG	DIGITAL	ANALOG	
FAN START/STOP			X		
OUTSIDE DAMPER POSITION			X		
FAN STAT	X				
SPACE TEMP		X			

CONTROLS FOR F/S DAMPER, SEE 4/M5.02

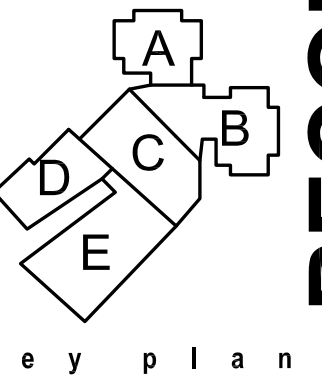
POINT DESCRIPTION	INPUT		OUTPUT		ALARM
	DIGITAL	ANALOG	DIGITAL	ANALOG	
DAMPER END SWITCH	X				
DAMPER RELAY CONTACTS			X		
FIRE ALARM CONDITION	X				

CONTROLS FOR ELEC. DUCT HEATER SEE 5/M5.02

POINT DESCRIPTION	INPUT		OUTPUT		ALARM
	DIGITAL	ANALOG	DIGITAL	ANALOG	
SPACE TEMP	X				
DUCT HEATER S/S			X		

CONTROLS FOR SF-2 SEE 6/M5.02

POINT DESCRIPTION	INPUT		OUTPUT		ALARM
	DIGITAL	ANALOG	DIGITAL	ANALOG	
FAN START/STOP			X		
OUTSIDE DAMPER POSITION			X		
HEAT COIL				X	
DISCHARGE TEMP		X			



phase | RECORD DRAWING

date | 11/09/2015

revisions |

project # | 11082

MECHANICAL CONTROLS

M5.02

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