



MECHANICAL DETAILS

MECHANICAL NOTES, SYMBOLS, LEGENDS AND SPECIFICATIONS

DRAWING TITLE

COVER SHEET

ECM-19 KEYPLAN

AREAS OF WORK

ECM-22 KEYPLAN

MECHANICAL SCHEDULES

LOCATION MAP

ECM-22: MECHANICAL PLANS AND NOTES - COOLING TOWER

ECM-21: MECHANICAL PLANS AND NOTES - BOILER ROOM/COOLING TOWER

ECM-20: MECHANICAL PLANS AND NOTES - BOILER ROOM

ECM-19: MECHANICAL PLANS AND NOTES - CHASSIS

ECM-19: MECHANICAL PLANS AND NOTES - BOILER ROOM/LAUNDRY

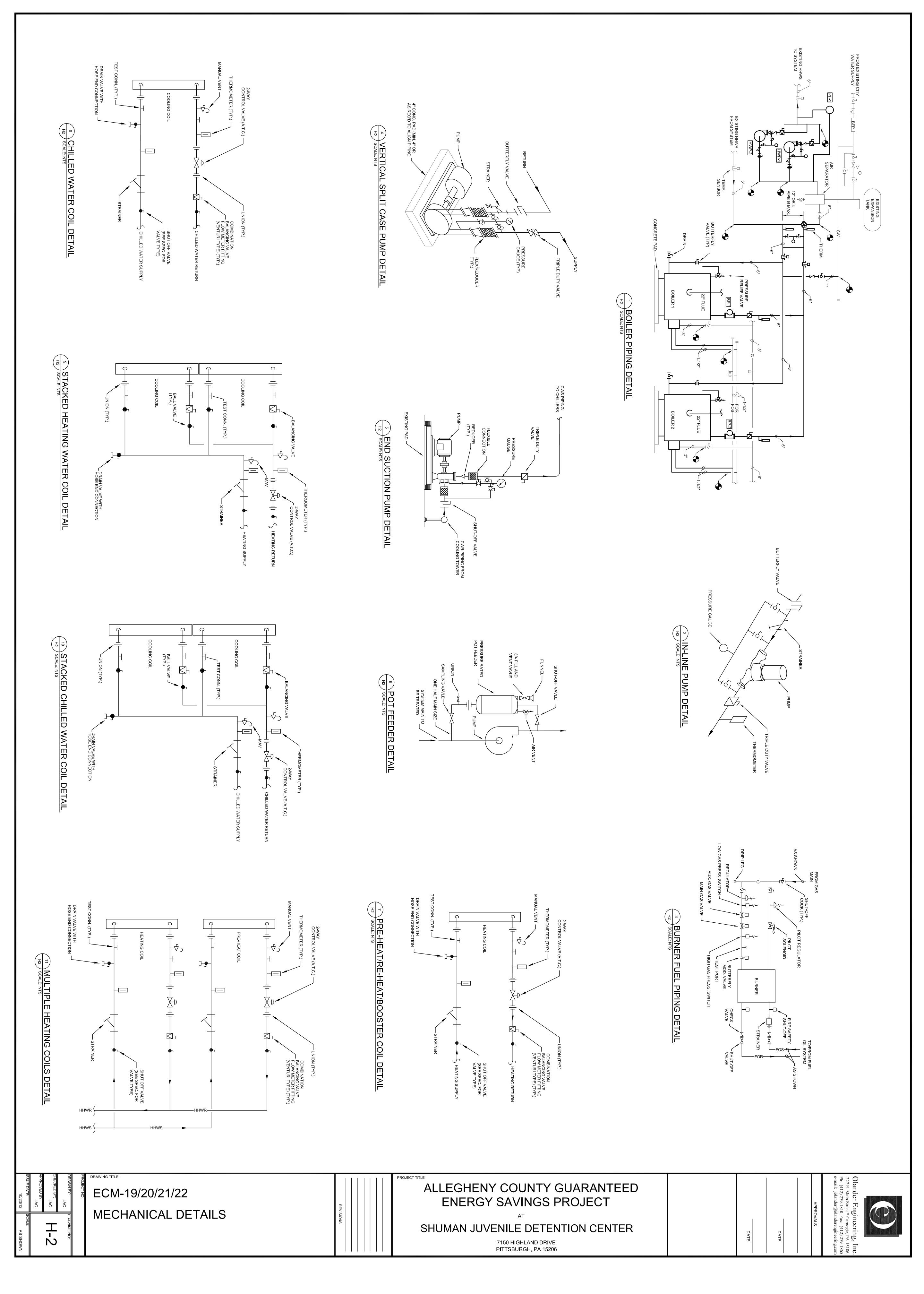
ECM-19: MECHANICAL PLANS AND NOTES - ROOF PENTHOUSES

COVER SHEET

ALLEGHENY COUNTY GUARANTEED **ENERGY SAVINGS PROJECT**

SHUMAN JUVENILE DETENTION CENTER 7150 HIGHLAND DRIVE PITTSBURGH, PA 15206





		GENERAL DATA		D D		MOTOR DATA VOLTAGE	<u> A</u>				DRIVE OLTAGE	101	1 1 111	EDATA
MARK	SERVICE	LOCATION	DRIVE MOTOR R.P.M.	H.P.	FRAME SIZE	V Ø HZ	GE FLA	MANUFACTURER/MODEL F	FRAME SIZE	CURRENT AMPS V	`	VOLTA(—— ∂	VOLTA(
CWP-1	CHW PUMP	BOILER ROOM	SEE SCHEDULE	JLE 25.0	- 4		\vdash	WITH PUMP	R3	38.0	66		3 60	ω
CWP-2	CHW PUMP	BOILER ROOM	SEE SCHEDULE	+		ω	ļ	WITH PUMP	23	38.0	460	ω	3 60	3 60 ABB: ACH550-VCR-038A-4+F267 (
CWP-3	CHW PUMP	BOILER ROOM	SEE SCHEDULE	JLE 25.0	1 1	460 3 60		WITH PUMP	3 23	38.0		460 3	460 3 60	460 3 60 ABB:
HWP-2	HWP PUMP	BOILER ROOM	SEE SCHEDULE	-	- 4	ω	1	WITH PUMP	Z 2	31.0		460 3	460 3 60	460 3 60 ABB: ACH550-VCR-031A-4+F267 (
SF-1	AC-1/CHASSIS	PENTHOUSE R1	BELT 18	$\overline{}$	284T 4	ω	29.3	US MOTORS MODEL DT74	R3	38.0		460 3	460 3 60	460 3 60 ABB: ACH550-VCR-038A-4+F267
RF-1	CHASSIS	PENTHOUSE R1				ω	12.0	MODEL	R2	15.4		460 3	460 3 60	460 3 60 ABB: ACH550-VCR-015A-4+F267 (
SF-2	AC-2/CHASSIS	PENTHOUSE R2		\vdash		ω	12.0	US MOTORS MODEL AS70	R2	15.4		460 3	460 3 60	460 3 60 ABB: ACH550-VCR-015A-4+F267
RF-2	CHASSIS	PENTHOUSE R2	BELT 18			ω	9.1	US MOTORS MODEL AS68	<u></u> 콘	11.9		460 3	460 3 60	460 3 60 ABB: ACH550-VCR-012A-4+F267
SF-3	AC-3/CHASSIS	PENTHOUSE R2		$\frac{1}{2}$		ω	23.5	US MOTORS MODEL DT59	꼾	31.0		460 3	460 3 60	460 3 60 ABB:
RF-3	CHASSIS	PENTHOUSE R2		-		ω	18.4	US MOTORS MODEL CM57	₹ .	2		460 3	460 3 60	460 3 60 ABB: ACH550-VCR-023A-4+F267
SF-4	AC-4/CHASSIS	PENTHOUSE R3		_		ω	29.3	US MOTORS MODEL DT74	꼾			460 3	460 3 60	460 3 60 ABB: ACH550-VCR-038A-4+F267
RF-4	CHASSIS	PENTHOUSE R3		_		ω	_	MOTORS MODEL	₹ 2			460 3	460 3 60	460 3 60 ABB: ACH550-VCR-023A-4+F267
ΣΠ Σ	AC-2/CHASSIS	DENTHOUSE RA		-	_	ى ر	_	IS MOTORS MODEL DT74	Z i			460 3	460 3 60	460 3 60 ARR: ACH550-VCR-038A-4+F267
RF-5	CHASSIS	PENTHOUSE R4	BELT 18	1800 25.0	284 41 215T 41	460 3 60	12.0	US MOTORS MODEL AS70	R2 2			460 3	460 3 60	460 3 60 ABB: ACH550-VCR-015A-4+F267
SF-6	GYMNASIUM	MECHANICAL P18	\neg	\dashv		ω	-+	MOTORS MODEL	R2	- 1		460 3	460 3 60	460 3 60 ABB: ACH550-VCR-015A-4+F267
B I	CVMNIASILIM	MECHANICAL D18	\top	+	4	J	+	LIS MOTORS MODEL CE18	<u>0</u>			460	160 3 60	480 3 80 ABB: ACH550 VCB-0840-4+E287
SF-7	GYMNASIUM	MECHANICAL P18	BELT 18	1800 7.5	213T 4	460 3 60	9 1	US MOTORS MODEL AS68	꼬 2			460 3	460 3 60	460 3 60 ABB: ACH550-VCR-012A-4+F267
RF-7	GYMNASIUM			+		ω	3.9	MOTORS MODEL	꼬			460 3	460 3 60	460 3 60 ABB:
SF-8	UTINU	PENTHOUSE J-22		\dashv	_	ω	9.1	US MOTORS MODEL AS68	꼰		11.9 460	460 3	460 3 60	460 3 60 ABB: ACH550-VCR-012A-4+F267
RF-8	UTINU	PENTHOUSE J-22				ω	<u>သ</u> သ	US MOTORS MODEL CJ93	꼰			460 3	460 3 60	460 3 60 ABB: ACH550-VCR-04A1-4+F267
SF-9	UNITI	PENTHOUSE I-22				3	9.1	MODEL	R1		11.9 460	460 3	460 3 60	460 3 60 ABB:
RF-9	UNITI	PENTHOUSE I-22	BELT 18	1800 2.0	145T 4	460 3 60	3.3	US MOTORS MODEL CJ93	R1		4.1 460	460 3	460 3 60	460 3
SF-10	UNITH	PENTHOUSE H-22	BELT 18	1800 7.5	\sqcup	460 3 60	9.1	US MOTORS MODEL AS68	癶		11.9 460	460 3	460 3 60	460 3
RF-10	UNITH	PENTHOUSE H-22				ω	3.3	MODEL	꼰		4.1 460	460 3	460 3 60	460 3 60 ABB: ACH550-VCR-04A1-4+F267
SF-11	UNIT G	PENTHOUSE G-22	BELT 18	1800 7.5		460 3 60	9.1	US MOTORS MODEL AS68	R1		11.9 460	460 3	460 3 60	460 3
RF-11	UNIT G	PENTHOUSE G-22	BELT 18	1800 2.0	145T 4	460 3 60	3.3	US MOTORS MODEL CJ93	R1		4.1 460	460 3	460 3 60	460 3
SF-12	UNIT F	PENTHOUSE F-22	BELT 18	1800 7.5	213T 4	460 3 60	9.1	US MOTORS MODEL AS68	R1		11.9 460	460 3	460 3 60	460 3 60 ABB: ACH550-VCR-012A-4+F267
RF-12	UNIT F	PENTHOUSE F-22	BELT 18	1800 2.0	145T 4	460 3 60	3.3	US MOTORS MODEL CJ93	R1		4.1 460	460 3	460 3 60	460 3
SF-13	UNIT K	PENTHOUSE K-22	BELT 18	1800 7.5	213T 4	460 3 60	9.1	US MOTORS MODEL AS68	R1		11.9 460	460 3	460 3 60	460 3
RF-13	UNITK	PENTHOUSE K-22	BELT 18	1800 2.0	145T 4	460 3 60	<u>ယ</u> ယ	US MOTORS MODEL CJ93	<u>R</u>		4.1 460	460 3	460 3 60	460 3 60 ABB: ACH550-VCR-04A1-4+F267
SF-14	CNIT	PENTHOUSE L-22		+		ω	9.1	MOTORS MODEL	! ~			460 3	460 3 60	460 3 60 ABB:
RF-14	CNIT	PENTHOUSE L-22				υω	2 3	US MOTORS MODEL CJ93	ᆚ			460 3	460 3 60	460 3 60 ABB: ACH550-VCR-04A1-4+F267
SF-15	CZIT M	PENTHOUSE M-22	BELT 18	1800 7.5 1800 2.0		460 3 60	2 9. <u>1</u>	US MOTORS MODEL AS68	2 2		11.9 460 4 1 460	460 3	460 3 60	460 3 60 ABB: ACH550-VCR-012A-4+F267
SF-16	CNIT N	PENTHOUSE N-22		_	213T 4	ωι	9 0	US MOTORS MODEL AS68	쯔 2	- 1		460 3	460 3 60	460 3 60 ABB:
RF-16	UNITN	PENTHOUSE N-22				ω	3.3	MOTORS MODEL	꼰			460 3	460 3 60	460 3 60 ABB: ACH550-VCR-04A1-4+F267
SF-17	UNITO	PENTHOUSE 0-22				ω	9.1	US MOTORS MODEL AS68	<u>R</u>			460 3	460 3 60	460 3 60 ABB: ACH550-VCR-012A-4+F267
RF-17	UNITO	PENTHOUSE 0-22				ω	3.3	US MOTORS MODEL CJ93	꼰	. 1	4.1 460	460 3	460 3 60	460 3 60 ABB:
SF-18	AC-18/SWITCHGEAR	BOILER ROOM		\dashv		ω	ω ω	MOTORS MODEL	꼬			460 3	460 3 60	460 3 60 ABB: ACH550-VCR-04A1-4+F267
RF-18	SWITCHGEAR	BOILER ROOM			\Box	ω	1.5	US MOTORS MODEL DS70	R ₁			460 3	460 3 60	460 3 60 ABB: ACH550-VCR-03A3-4+F267
SF-H1		STORAGE Q-13		1800 15.0		460 3 60	18.4	US MOTORS MODEL CM57	R2		23.0 460	460 3	460 3 60	460 3 60 ABB: ACH550-VCR-023A-4+F267
SF-H2	HV-1/LAUNUXY	STORAGE Q-13		\rightarrow		ω	6.2	MOTORS MODEL	쯔	1		460 3	460 3 60	460 3 60 ABB: ACH550-VCR-08A8-4+F267
RF-19	HV-1/LAUNDRY HV-2/STORAGE	STORAGE Q-13			╛	З	2.1	US MOTORS MODEL CJ69	R ₁			460 3	460 3 60	460 3 60 ABB: ACH550-VCR-03A3-4+F267
	HV-2/STORAGE HV-2/STORAGE			L		ω	18.4	US MOTORS MODEL V00186	R2			460 3	460 3 60	460 3 60 ABB: ACH550-VCR-023A-4+F267 (
CTF-1	HV-2/STORAGE HV-2/STORAGE COOLING TOWER	COOLING TOWER		00 15.0		ω	18.4	MOTORS MODEL	낁			460 3	460 3 60	460 3 60 ABB: ACH550-VCR-023A-4+F267 (

ВН3-7	BH2-7	BH1-7	BH4-6	внз-6	вн2-6	BH1-6	BH10-5	вн9-5	BH8-5	BH7-5	BH6-5	BH5-5	BH4-5	вн3-5	BH2-5	BH1-5	BH8-4	BH7-4	BH6-4	BH5-4	BH4-4	BH3-4	BH2-4	BH1-4	BH5-3	BH4-3	внз-3	вн2-3	BH1-3	BH2-2	вн1-2	BH8-1	BH7-1	BH6-1	BH5-1	BH4-1	BH3-1	BH2-1	BH1-1	MARK	
GYMNASIUM	UNIT B	UNIT A	A TINU	UNIT A	UNIT E	J LINU	J TINU	UNITE	UNITE	UNIT E	∃ LIN∩	D TINU	UNIT D	D TINU	UNIT D	LOCATION	BOOSTER																								
AC-7	AC-7	AC-7	AC-6	AC-6	AC-6	AC-6	AC-5	AC-4	AC-3	AC-3	AC-3	AC-3	AC-3	AC-2	AC-2	AC-1	AC UNIT SERVED	R COIL																							
HEAT HOT WATER	FLUID	L FLOW/SIZING																																							
1-1/4"	3/4"	3/4"	3/4"	1-1/4"	3/4"	3/4"	3/4"	3/4"	1-1/2"	3/4"	1"	3/4"	3/4"	1"	3/4"	1-1/4"	3/4"	1	3/4"	1-1/2"	3/4"	1-1/2"	3/4"	1"	3/4"	3/4"	3/4"	1-1/2"	1-1/2"	1"	1-1/2"	1"	1-1/4"	1-1/4"	1"	3/4"	1"	3/4"	1-1/4"	SUPPLY PIPING (IN.)	NG
1-1/4"	3/4"	3/4"	3/4"	1-1/4"	3/4"	3/4"	3/4"	3/4"	1-1/2"	3/4"	1"	3/4"	3/4"	1	3/4"	1-1/4"	3/4"	1	3/4"	1-1/2"	3/4"	1-1/2"	3/4"	1"	3/4"	3/4"	3/4"	1-1/2"	1-1/2"	1"	1-1/2"	1"	1-1/4"	1-1/4"	1"	3/4"	1"	3/4"	1-1/4"	RETURN PIPING (IN.)	
13.0	0.3	1.4	2.7	13.0	0.3	2.0	3.5	2.6	17.0	0.7	4.5	1.5	3.0	5.0	1.9	13.0	3.0	5.0	3.5	15.0	0.2	14.0	1.5	4.5	0.3	2.8	4.0	14.0	15.0	8.0	17.0	4.3	10.0	13.5	6.0	3.0	4.2	3.7	8.5	G.P.M.	

OOSTE	R CO	OOSTER COIL FLOW/SIZING	NG					
OCATION	AC UNIT	FLUID	SUPPLY	RETURN	G.P.M		MARK	
	SERVED	TYPE	(IN.)	(IN.)				1
TD	AC-1	HEAT HOT WATER	1-1/4"	1-1/4"	8.5		BP-1	l _
TD	AC-1	HEAT HOT WATER	3/4"	3/4"	3.7		BP-2	
TD	AC-1	HEAT HOT WATER	1	1"	4.2		HWP-1	ا ر ا
TD	AC-1	HEAT HOT WATER	3/4"	3/4"	3.0		HWP-2	_
TD	AC-1	HEAT HOT WATER	1.	1"	6.0		CWP-1	_
T D	AC-1	HEAT HOT WATER	1-1/4"	1-1/4"	13.5		CWP-2	_
T D	AC-1	HEAT HOT WATER	1-1/4"	1-1/4"	10.0		CWP-3	_
T D	AC-1	HEAT HOT WATER	1"	1"	4.3		CP-1	۱_
TE	AC-2	HEAT HOT WATER	1-1/2"	1-1/2"	17.0		CP-2	۱_
TE	AC-2	HEAT HOT WATER	1"	1"	8.0		CP-3	۱_
TE	AC-3	HEAT HOT WATER	1-1/2"	1-1/2"	15.0			
TE	AC-3	HEAT HOT WATER	1-1/2"	1-1/2"	14.0			
TE	AC-3	HEAT HOT WATER	3/4"	3/4"	4.0	_		
TE	AC-3	HEAT HOT WATER	3/4"	3/4"	2.8			
TE	AC-3	HEAT HOT WATER	3/4"	3/4"	0.3			
TΑ	AC-4	HEAT HOT WATER	1"	1"	4.5		MARK	
TΑ	AC-4	HEAT HOT WATER	3/4"	3/4"	1.5		,	_
TΑ	AC-4	HEAT HOT WATER	1-1/2"	1-1/2"	14.0		σ -	
TΑ	AC-4	HEAT HOT WATER	3/4"	3/4"	0.2		υ	<u>'</u>
TA	AC-4	HEAT HOT WATER	1-1/2"	1-1/2"	15.0		RELIEF VAI	۲۵ کے
TΑ	AC-4	HEAT HOT WATER	3/4"	3/4"	3.5			
TA	AC-4	HEAT HOT WATER	1"	1"	5.0			

		10,100	7			1	5	+	T	2	+	+	+	0,000		-
WEIL-McLAIN H-2594	WEIL-	23.200	SEE NOTE		FAN	23	80		745.8	81/83	6 970) 8 660	60 0	8 660	BOII FR ROOM	R-1
		(LBS.)	PH. HZ.	<					(GAL.)	(%)	M.B.H	<u>т)</u> М.В.Н) (GPH)	(CFH)		NA NA
MANUFACTURER & MODEL	MANU	OPER. WT	VOLTAGE		\.\ BURNE)\ TYPF	(INCHES) TYPE	SING			•		-				NADI
				LER SCHEDULE	HEL	SCI		BOI								
		3LF	PACO 50123LF	60	3) 460) 1750	0 40	110	945	OWER	COOLING TOWER		CONDENSER	HORIZONTAL	CP-3
		3LF	PACO 50123LF	60	3) 460	1750) 40	110	945	OWER	COOLING TOWER		CONDENSER	HORIZONTAL	CP-2
		3LF	PACO 50123LF	60	3) 460) 1750) 40	110	945	OWER	COOLING TOWER		CONDENSER	HORIZONTAL	CP-1
		9VSMS	PACO 50129VSMS	60	ω) 460	5 1750	25	90	800	MC	BOILER ROOM	BC	CHILLED	VERTICAL	CWP-3
		9VSMS	PACO 50129VSMS	60	3) 460	5 1750	25	90	800	OM	BOILER ROOM	BC	CHILLED	VERTICAL	CWP-2
		9VSMS	PACO 50129VSMS	60	3) 460	5 1750	25	90	800	OM	BOILER ROOM	BC	CHILLED	VERTICAL	CWP-1
		AVSMS	PACO 5012AVSMS	60	3) 460) 1750	20	90	550	DM	BOILER ROOM	BC	BOILERS	VERTICAL	HWP-2
		AVSMS	PACO 5012AVSMS	60	3	າ 460) 1750	20	90	550	DM	BOILER ROOM	BC	BOILERS	VERTICAL	HWP-1
		7 VL	PACO 50707 VL	60	3	າ 460	5 1750	7.5	35	470	DM	BOILER ROOM	ВС	BOILER2	INLINE	BP-2
		7 VL	PACO 50707 VL	60	3	າ 460	5 1750	7.5	35	470	DM	BOILER ROOM	ВС	BOILER 1	INLINE	BP-1
				ZH	PH	M.	P RPM) HP								
REMARKS	ODEL	MANUFACTURER/MODEL	MANUFAC	\GE	VOLTAGE	A	MOTOR DATA		M. HEAD	G.P.M	9	LOCATION		SERVICE	TYPE	MARK
						F	EDU	SCH	PUMP SCHEDULE	٦			_			

COOLING COIL			HEATING COIL						PRE-HEAT COIL			
COIL DIMS.	WATER DATA MANUFACTURER MARK Q	LAT OUTPUT NO. FACE	COIL DIMS. WATER DATA	MANUFACTURER MARK QUA.		ОПТРПТ	NO. FACE	A.P.D.	COIL DIMS.	WATER DATA	DATA	MANUFACTURER
MBH MBH ROWS VEL (IN WC)	E.W.T. L.W.T. & MODEL NO.	(°F) (°F) MBH ROWS	G.P.M. W.P.D E.W.T. L.W.T. (°F) (°F)		(°F) (°F)	MBH	ROWS VEL (FPM)		GPM	W.P.D E.W.T	E.W.T. L.W.T.	& MODEL NO.
36.5 51.2 50.9 365.4 534.7 6 573 1.20 27.25X106 101.5 23.1	44.0 54.5 JCI CA0061227.25106G06CC020B025WH06LCS01BM3.0005 HC-1	2 11,488 48.0 76.8 358.4 1 573 0.14	27.25X106 18.0 1.7 190.0 148.9 JCI CA0060827.25106G	JCI CA0060827.25106G01HC020B025WH02LCS01BM1.5005							NOT REQUIRED	UIRED
36.6 51.2 50.9 298.8 440.0 6 434 0.68 42.25X74 84.0 12.3	44.0 54.4 JCI CA0061042.25074G06CC020B025WH08RCS01BM3.0005 HC-2	1 9,425 49.0 77.9 295.1 1 434 0.08	42.25X74 12.0 0.5 190.0 139.2 JCI CA0060842.25074G	JCI CA0060842.25074G01HC020B025WH02LCS01BM1.5005							NOT REQUIRED	UIRED
72.6 51.3 51.2 379.8 654.5 8 566 1.48 24.25X100 126.0 25.3	44.0 54.4 JCI CA0061024.25100G08CC020B025WH06LCS01BM3.0005 HC-3	2 9,525 21.0 58.3 384.8 1 566 0.13	24.25X100 23.5 3.2 190.0 156.3 JCI CA0060824.25100G	JCI CA0060824.25100G01HC020B025WH02LCS01BM1.5005							NOT REQUIRED	NIRED
36.2 52.2 51.7 339.2 481.5 6 555 0.99 27.25X106 98.0 21.6	44.0 53.8 JCI CA0061027.25106G06CC020B025WH06LCS01BM3.0005 HC-4	2 11,142 49.0 76.9 336.2 1 555 0.13	27.25X106 15.0 1.2 190.0 143.8 JCI CA0060827.25106G	JCI CA0060827.25106G01HC020B025WH02LCS01BM1.5005							NOT REQUIRED	NIRED
36.8 52.2 51.7 334.2 487.1 6 536 0.95 27.25X106 97.5 21.4	44.0 53.8 JCI CA0061027.25106G06CC020B025WH06LCS01BM3.0005 HC-5	2 10,747 46.0 77.6 367.5 1 536 0.12	27.25X106 21.0 2.3 190.0 153.9 JCI CA0060827.25106G	JCI CA0060827.25106G01HC020B025WH02LCS01BM1.5005							NOT REQUIRED	UIRED
37.8 53.2 52.7 243.6 363.7 6 557 1.01 36.25X56 75.0 10.5	44.0 53.7 JCI CA0061036.25056G06CC020B025WH08RCS01BM3.0005 HC-6	1 7,855 40.0 75.9 305.3 1 503 0.11	36.25X62 27.0 1.0 190.0 166.7 JCI CA0060836.25062G	JCI CA0060836.25062G01HC020B025WH02RCS01BM2.5005							NOT REQUIRED	UIRED
36.2 52.0 51.7 203.5 287.4 6 426 0.64 36.25X62 57.0 3.9	44.0 54.0 JCI CA0061036.25062G06CC020B025WH06LCS01BM2.5005 HC-7	1 6,655 47.0 81.4 247.6 1 426 0.08	36.25X62 12.0 1.5 190.0 147.5 JCI CA0060836.25062G	JCI CA0060836.25062G01HC020B025WH04LCS01BM1.5005							NOT REQUIRED	NIRED
36.8 52.5 52.3 177.4 255.6 6 512 0.90 30.25X54 50.0 3.6	44.0 54.2 JCI CA0081030.25054G06CC020B025WH06RCS01BM2.5005 HC-8A	1 5,810 55.0 97.0 265.0 2 849 0.51	18.25X54 17.0 2.7 190.0 157.9 JCI CA0060818.25054G	JCI CA0060818.25054G02HC020B025WH06RCS01BM1.5005 HC-8B 1	5,810 44.0 78.4	4 216.5	1 512	0.11	30.25X54 15.0	28 1900	160.3	JCI CA0060830.25054G01HC020B025WH04LCS01BM1.5005
36.8 52.5 52.3 177.4 255.6 6 512 0.90 30.25X54 50.0 3.6	44.0 54.2 JCI CA0081030.25054G06CC020B025WH06RCS01BM2.5005 HC-9A	1 5,810 55.0 97.0 265.0 2 849 0.51	18.25X54 17.0 2.7 190.0 157.9 JCI CA0060818.25054G	JCI CA0060818.25054G02HC020B025WH06RCS01BM1.5005 HC-9B 1	5,810 44.0 78.4	4 216.5	1 512	0.11	30.25X54 15.0	28 1900	160.3	JCI CA0060830.25054G01HC020B025WH04LCS01BM1.5005
36.8 52.5 52.3 177.4 255.6 6 512 0.90 30.25X54 50.0 3.6	44.0 54.2 JCI CA0081030.25054G06CC020B025WH06RCS01BM2.5005 HC-10A	1 5,810 55.0 97.0 265.0 2 849 0.51	18.25X54 17.0 2.7 190.0 157.9 JCI CA0060818.25054G	JCI CA0060818.25054G02HC020B025WH06RCS01BM1.5005 HC-10B 1	5,810 44.0 78.4	4 216.5	1 512	0.11	30.25X54 15.0	28 190.0	160.3	JCI CA0060830.25054G01HC020B025WH04LCS01BM1.5005
36.8 52.5 52.3 177.4 255.6 6 512 0.90 30.25X54 50.0 3.6	44.0 54.2 JCI CA0081030.25054G06CC020B025WH06RCS01BM2.5005 HC-11A	1 5,810 55.0 97.0 265.0 2 849 0.51	18.25X54 17.0 2.7 190.0 157.9 JCI CA0060818.25054G	JCI CA0060818.25054G02HC020B025WH06RCS01BM1.5005 HC-11B 1	5,810 44.0 78.4	4 216.5	1 512	0.11	30.25X54 15.0	2.8 190.0	160.3	JCI CA0060830.25054G01HC020B025WH04LCS01BM1.5005
36.8 52.5 52.3 177.4 255.6 6 512 0.90 30.25X54 50.0 3.6	44.0 54.2 JCI CA0081030.25054G06CC020B025WH06RCS01BM2.5005 HC-12A	1 5,810 55.0 97.0 265.0 2 849 0.51	18.25X54 17.0 2.7 190.0 157.9 JCI CA0060818.25054G	JCI CA0060818.25054G02HC020B025WH06RCS01BM1.5005 HC-12B 1	5,810 44.0 78.4	4 216.5	1 512	0.11	30.25X54 15.0	2.8 190.0	160.3	JCI CA0060830.25054G01HC020B025WH04LCS01BM1.5005
36.8 52.5 52.3 177.4 255.6 6 512 0.90 30.25X54 50.0 3.6	44.0 54.2 JCI CA0081030.25054G06CC020B025WH06RCS01BM2.5005 HC-13A	1 5,810 55.0 97.0 265.0 2 849 0.51	18.25X54 17.0 2.7 190.0 157.9 JCI CA0060818.25054G	JCI CA0060818.25054G02HC020B025WH06RCS01BM1.5005 HC-13B 1	5,810 44.0 78.4	4 216.5	1 512	0.11	30.25X54 15.0	2.8 190.0	160.3	JCI CA0060830.25054G01HC020B025WH04LCS01BM1.5005
36.8 52.5 52.3 177.4 255.6 6 512 0.90 30.25X54 50.0 3.6	JCI CA0081030.25054G06CC020B025WH06RCS01BM2.5005 HC-14A	1 5,810 55.0 97.0 265.0 2 849 0.51	18.25X54 17.0 2.7 190.0 157.9 JCI CA0060818.25054G	JCI CA0060818.25054G02HC020B025WH06RCS01BM1.5005 HC-14B 1	5,810 44.0 78.4	4 216.5	1 512	0.11	30.25X54 15.0	2.8 190.0	160.3	JCI CA0060830.25054G01HC020B025WH04LCS01BM1.5005
36.8 52.5 52.3 177.4 255.6 6 512 0.90 30.25X54 50.0 3.6	44.0 54.2 JCI CA0081030.25054G06CC020B025WH06RCS01BM2.5005 HC-15A	1 5,810 55.0 97.0 265.0 2 849 0.51	18.25X54 17.0 2.7 190.0 157.9 JCI CA0060818.25054G	JCI CA0060818.25054G02HC020B025WH06RCS01BM1.5005 HC-15B 1	5,810 44.0 78.4	4 216.5	1 512	0.11	30.25X54 15.0	2.8 190.0	160.3	JCI CA0060830.25054G01HC020B025WH04LCS01BM1.5005
36.8 52.5 52.3 177.4 255.6 6 512 0.90 30.25X54 50.0 3.6	44.0 54.2 JCI CA0081030.25054G06CC020B025WH06RCS01BM2.5005 HC-16A	1 5,810 55.0 97.0 265.0 2 849 0.51	18.25X54 17.0 2.7 190.0 157.9 JCI CA0060818.25054G	JCI CA0060818.25054G02HC020B025WH06RCS01BM1.5005 HC-16B 1	5,810 44.0 78.4	4 216.5	1 512	0.11	30.25X54 15.0	2.8 190.0	160.3	JCI CA0060830.25054G01HC020B025WH04LCS01BM1.5005
36.8 52.5 52.3 177.4 255.6 6 512 0.90 30.25X54 50.0 3.6	44.0 54.2 JCI CA0081030.25054G06CC020B025WH06RCS01BM2.5005 HC-17A	1 5,810 55.0 97.0 265.0 2 849 0.51	18.25X54 17.0 2.7 190.0 157.9 JCI CA0060818.25054G	JCI CA0060818.25054G02HC020B025WH06RCS01BM1.5005 HC-17B 1	5,810 44.0 78.4	4 216.5	1 512	0.11	30.25X54 15.0	2.8 190.0	160.3	JCI CA0060830.25054G01HC020B025WH04LCS01BM1.5005
71.5 64.4 62.3 60.4 81.3 4 498 0.47 21.25X34 12.0 1.6	44.0 57.5 JCI CA0060821.25034G04CC020B025WH08LCS01BM2.0005 HC-18	1 2,500 61.0 89.1 75.6 1 498 0.11	21.25X34 10.0 2.2 190.0 174.4 JCI CA0060821.25034G	JCI CA0060821.25034G01HC020H020WH04LCS01BM1.5005							NOT REQUIRED	NIRED
72.0 52.3 51.9 220.6 329.7 6 304 0.36 24.25X100 65.9 4.4	44.0 54.0 JCI CA0060824.25100G06CC020B025WH04RCS01BM3.0005 HC-19	2 5,125 5.0 70.6 362.9 1 304 0.05	24.25X100 20.5 2.5 190.0 153.5 JCI CA0061024.25100G	JCI CA0061024.25100G01HC020B025WH02RCS01BM2.0005							NOT REQUIRED	UIRED
59.0 53.1 45.1 226.8 226.8 6 557 0.68 30.25X54 45.4 5.8	44.0 54.0 JCI CA0060830.25054G06CC020B025WH08LCS01BM2.5005 HC-20	1 6,320 35.0 76.0 280.5 1 557 0.14	30.25X54 19.0 4.4 190.0 159.6 JCI CA0061030.25054G	JCI CA0061030.25054G01HC020B025WH04LCS01BM1.5005							NOT REQUIRED	UIRED

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	ISSUE DATE:	APPROVED BY:	CHECKED BY:	7.

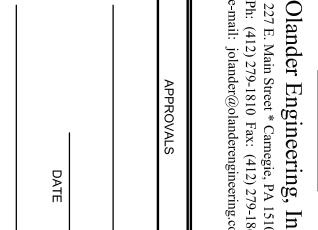
ECM-19/20/21/22 MECHANICAL SCHEDULES



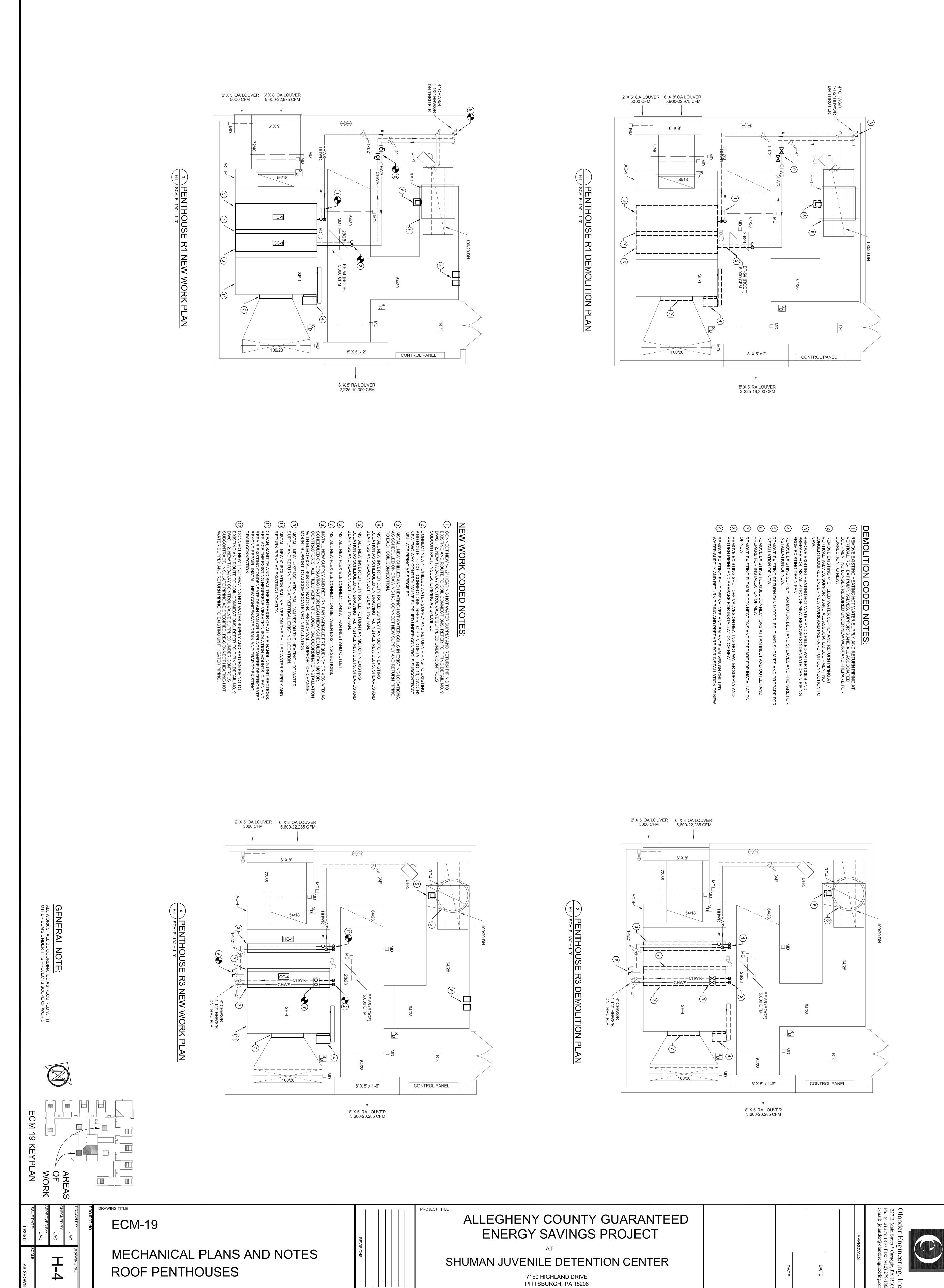
ALLEGHENY COUNTY GUARANTEED **ENERGY SAVINGS PROJECT**

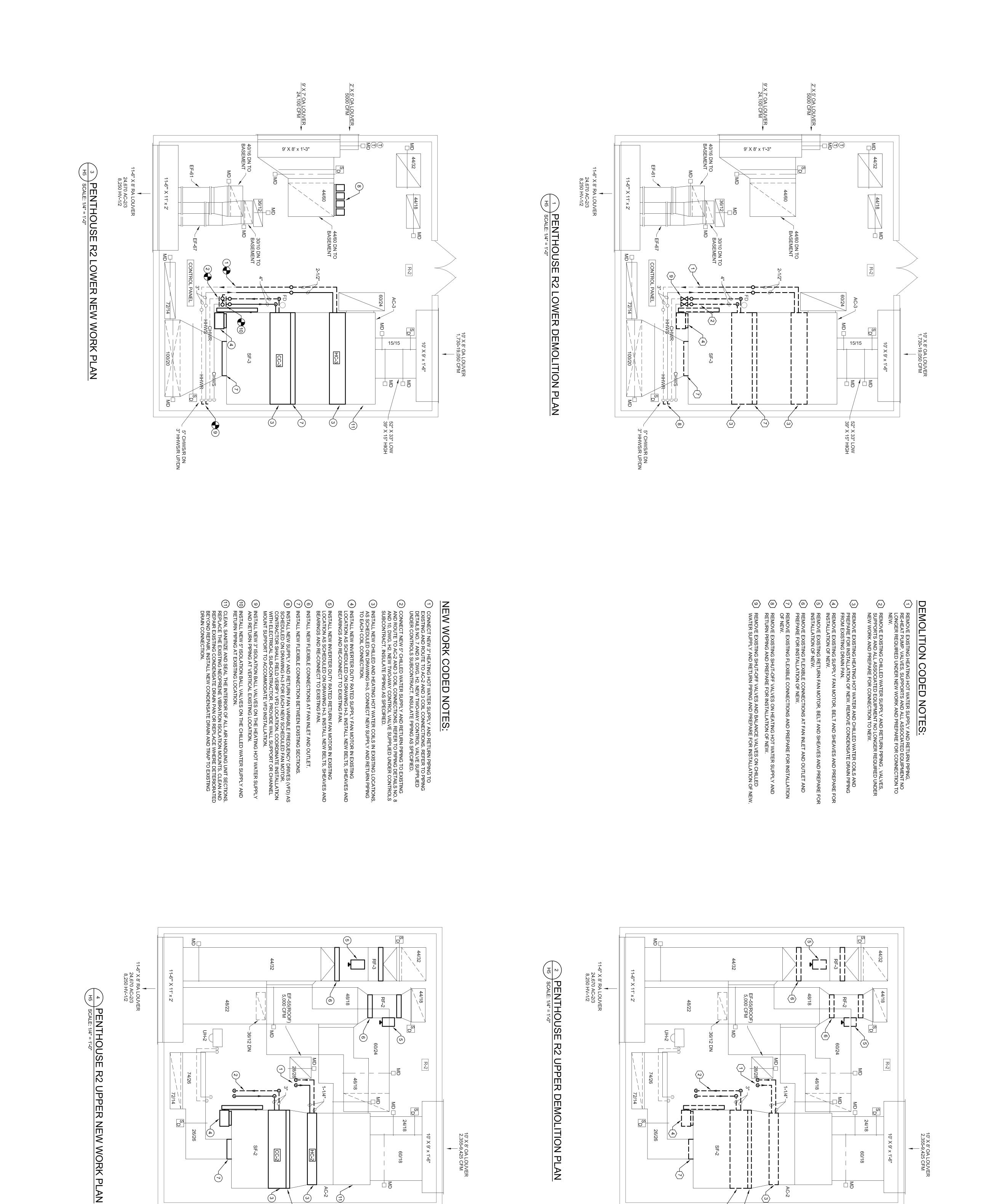
SHUMAN JUVENILE DETENTION CENTER

7150 HIGHLAND DRIVE PITTSBURGH, PA 15206









ECM 19 KEYPLAN AREA OF WORK

ALLEGHENY COUNTY GUARANTEED

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ENERGY SAVINGS PROJECT SHUMAN JUVENILE DETENTION CENTER 7150 HIGHLAND DRIVE

PITTSBURGH, PA 15206

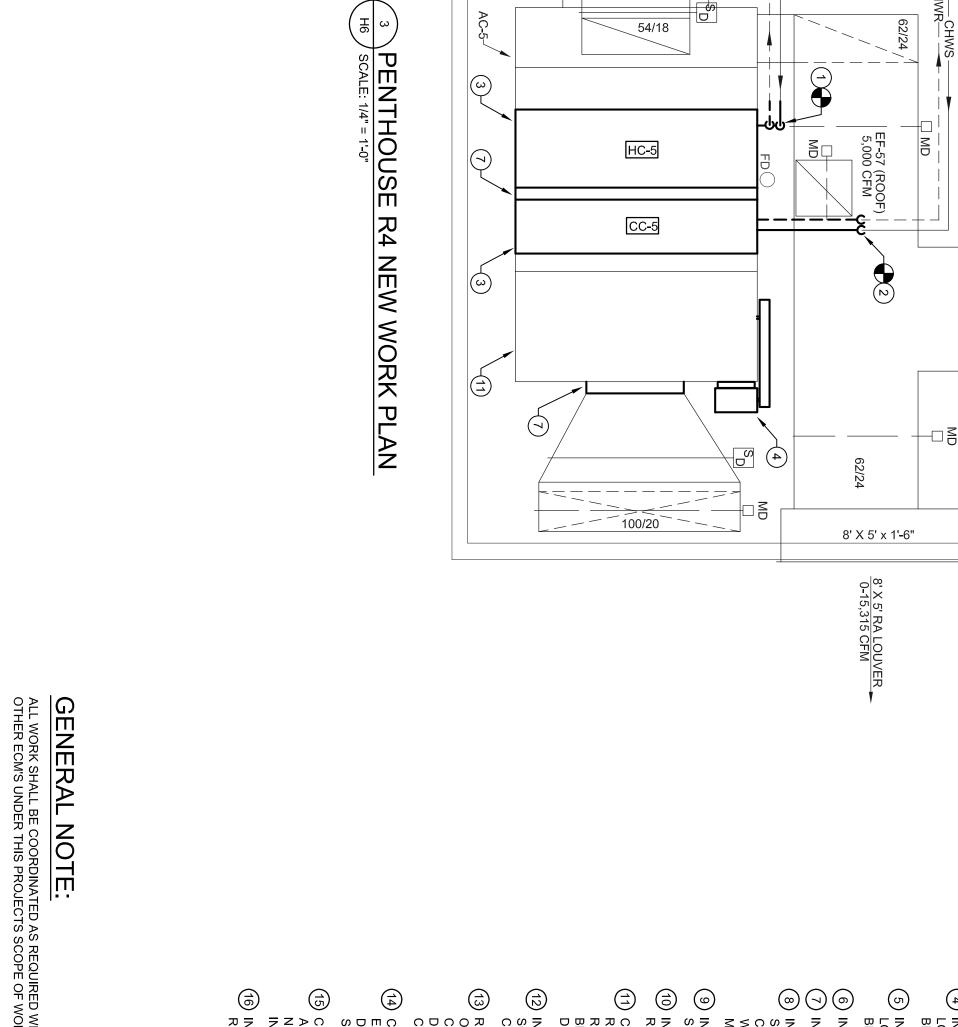
10' X 8' OA LOUVER 2,355-9,425 CFM

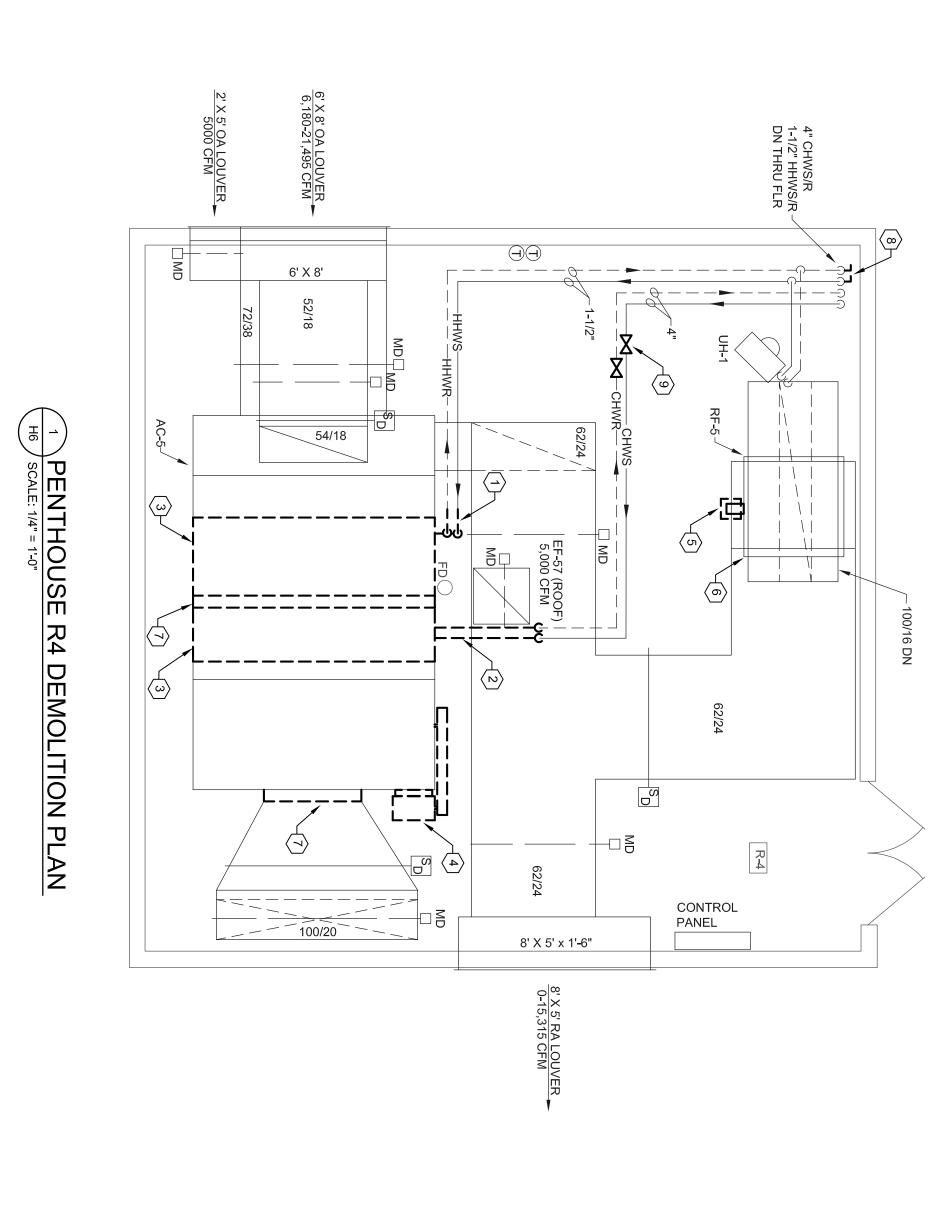
10' X 9' x 1'-6"

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10' X 8' OA LOUVER 2,355-9,425 CFM





/ (5) [']

REMOVE EXISTING HEATING HOT WATER AND CHILLED WATER COILS AND PREPARE FOR INSTALLATION OF NEW. REMOVE CONDENSATE DRAIN PIPING FROM EXISTING DRAIN PAN.

REMOVE EXISTING RETURN FAN MOTOR, BELT AND SHEAVES AND PREPARE FOR INSTALLATION OF NEW.

REMOVE EXISTING SUPPLY FAN MOTOR, BELT AND SHEAVES AND PREPARE FOR INSTALLATION OF NEW.

DEMOLITION CODED NOTES:

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REMOVE EXISTING SHUT-OFF VALVES ON HEATING HOT WATER SUPPLY AND RETURN PIPING AND PREPARE FOR INSTALLATION OF NEW.

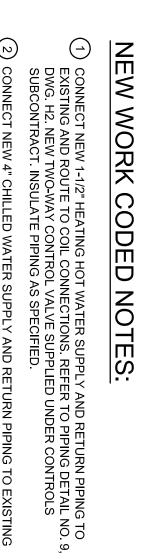
REMOVE EXISTING FLEXIBLE CONNECTIONS AT FAN INLET AND OUTLET AND PREPARE FOR INSTALLATION OF NEW.

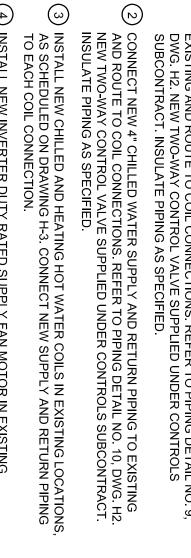
REMOVE EXISTING FLEXIBLE CONNECTIONS AND PREPARE FOR INSTALLATION OF NEW.

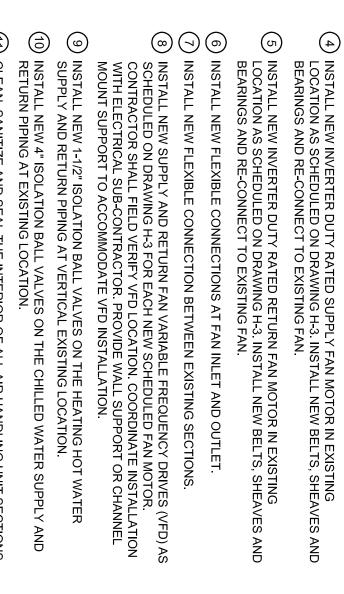
REMOVE EXISTING 24/14 OUTSIDE AIR DUCTWORK, MOTORIZED DAMPER, AND ASSOCIATED EQUIPMENT FROM WALL LOUVER TO AIR HANDLER MIXING MODULE.

REMOVE EXISTING 3/4" UNIT HEATER HEATING SUPPLY AND RETURN PIPING NEAR POINT SHOWN AND PREPARE FOR INSTALLATION OF NEW.

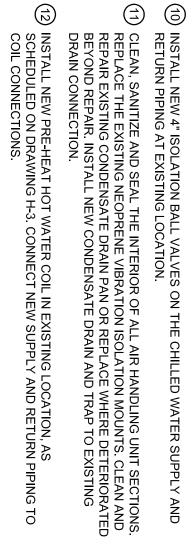
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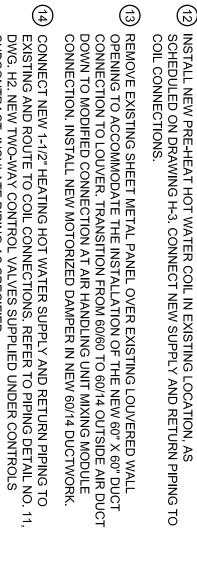


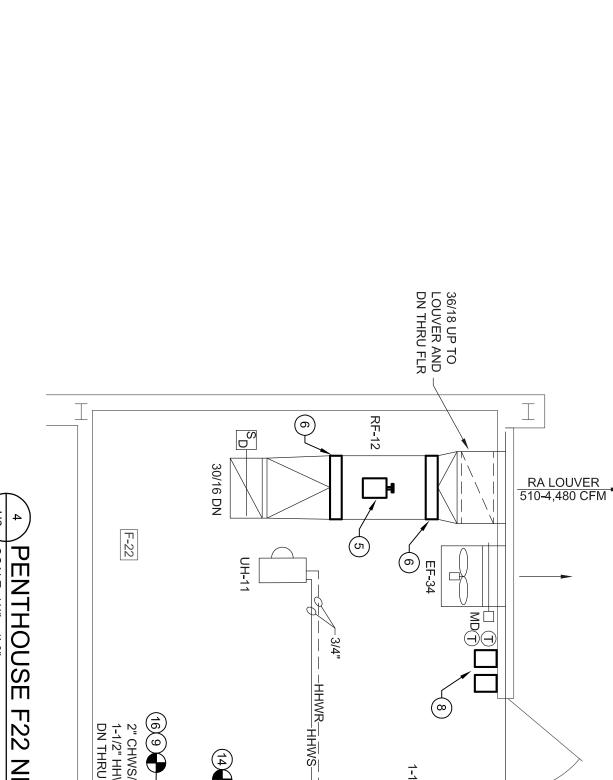


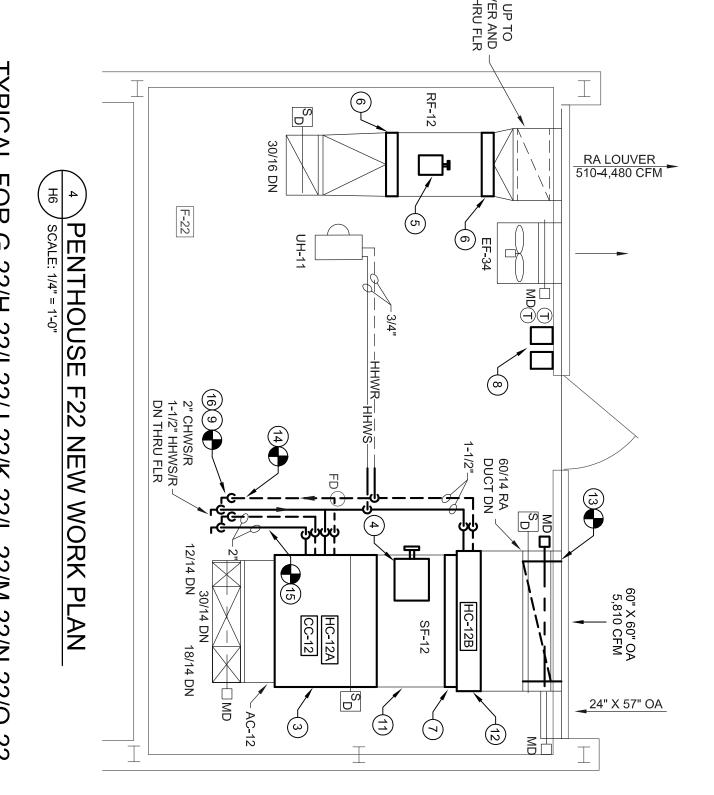


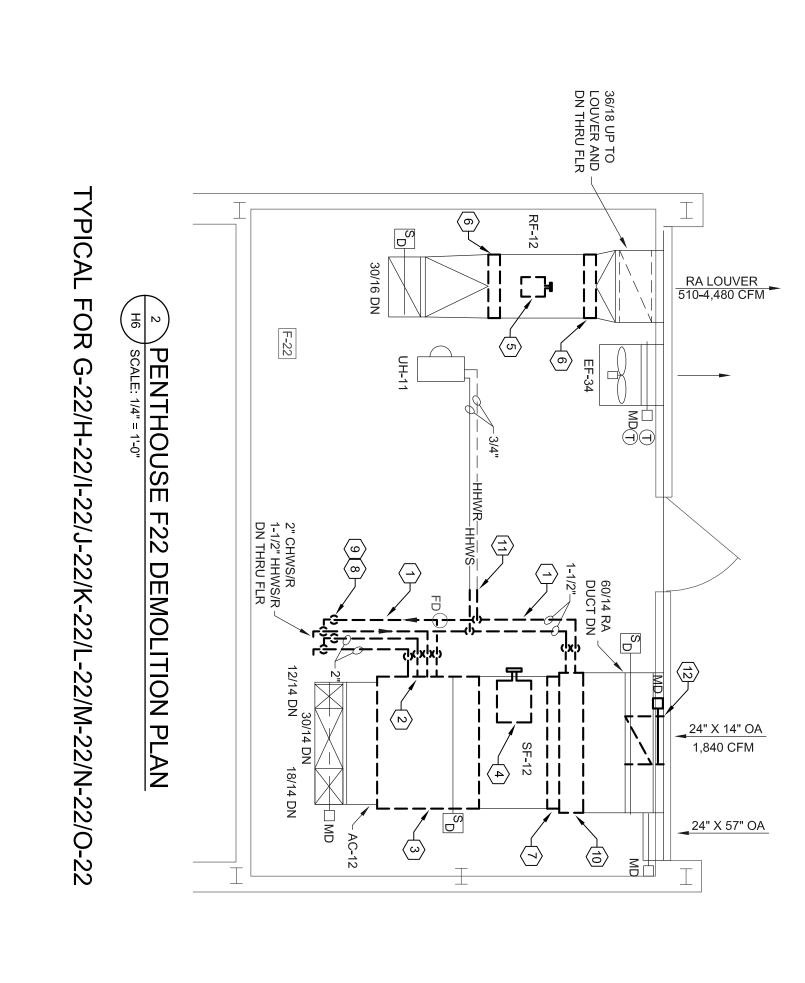
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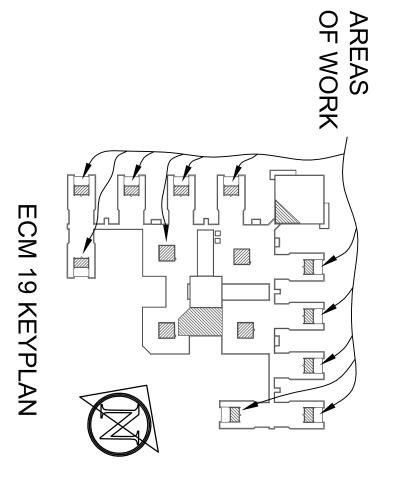












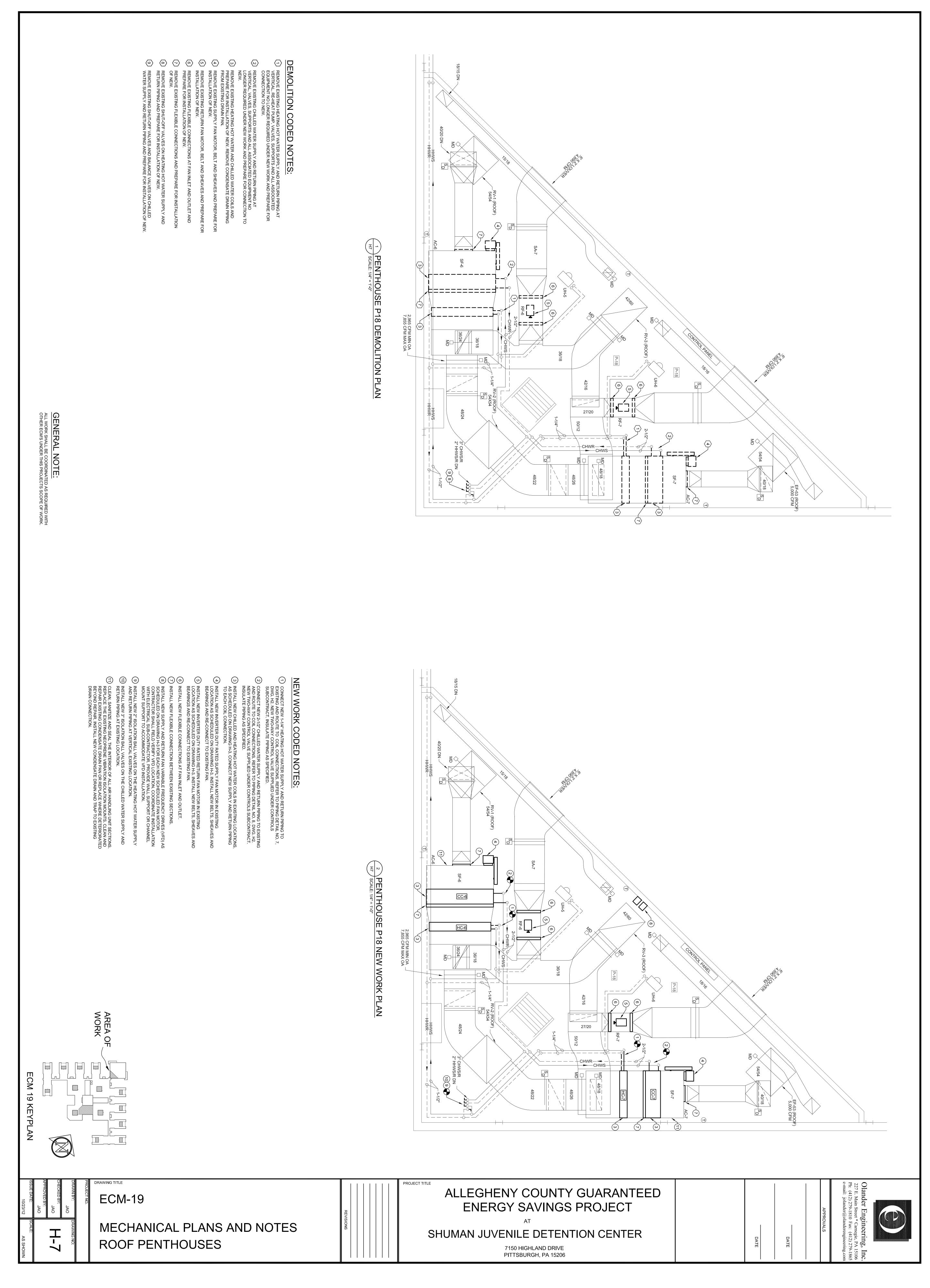
ECM-19

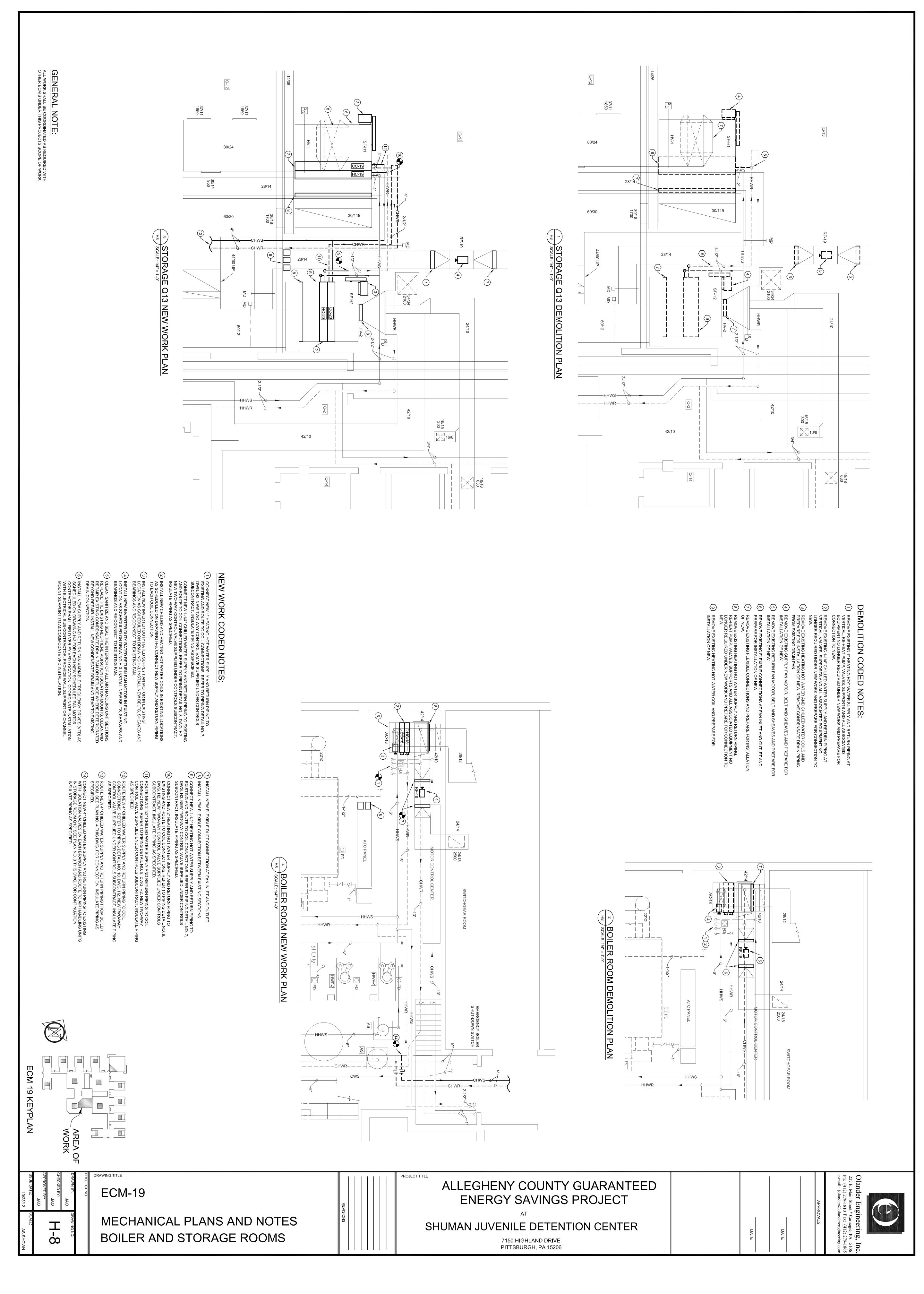
MECHANICAL PLANS AND NOTES ROOF PENTHOUSES

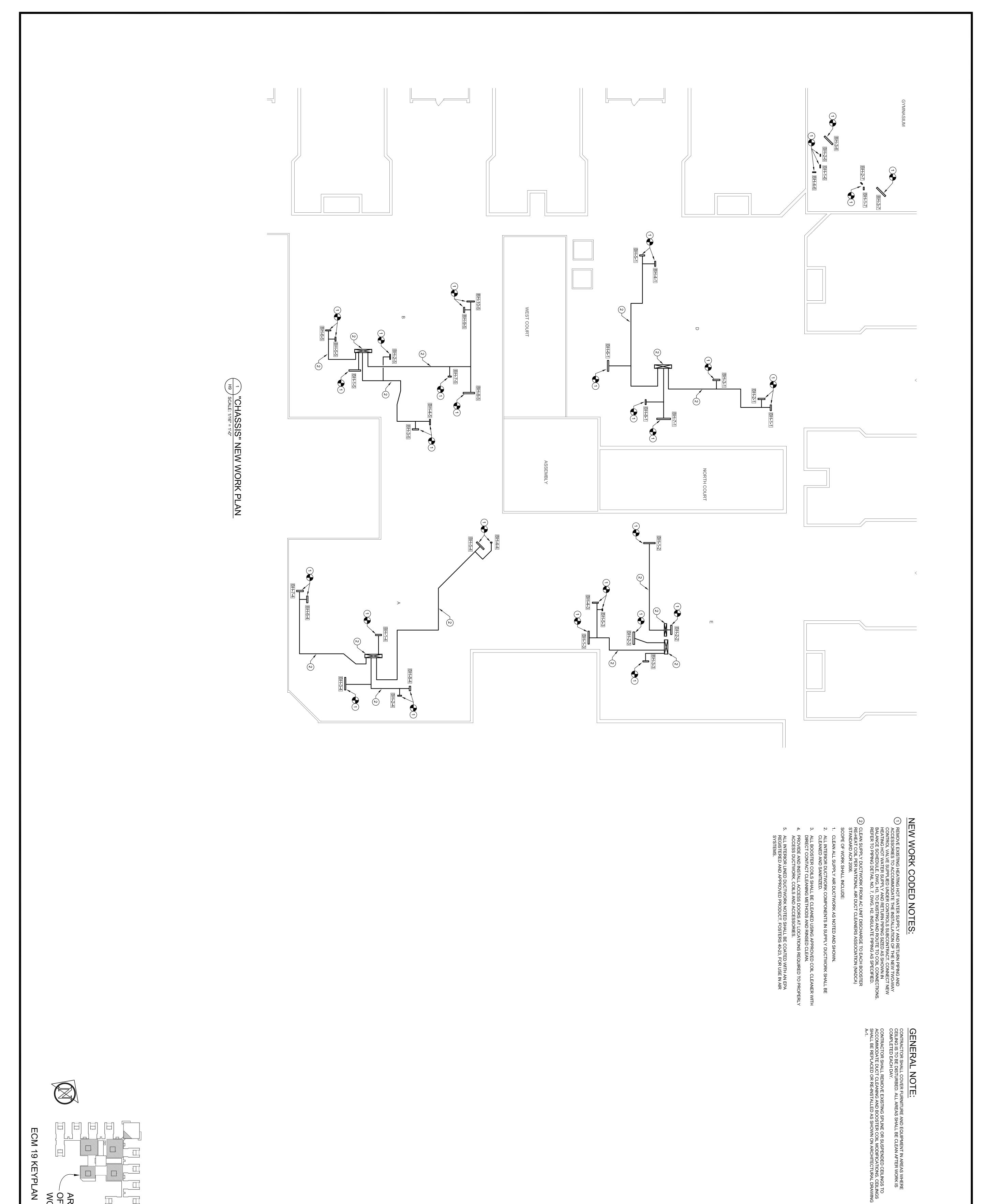
ALLEGHENY COUNTY GUARANTEED **ENERGY SAVINGS PROJECT**

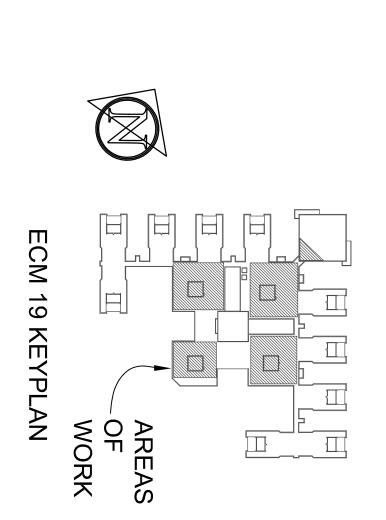
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ECM-19

MECHANICAL PLANS AND NOTES "CHASSIS"

ALLEGHENY COUNTY GUARANTEED **ENERGY SAVINGS PROJECT**

SHUMAN JUVENILE DETENTION CENTER 7150 HIGHLAND DRIVE

PITTSBURGH, PA 15206

