				AIR-	-CO	OLE	DC	HIL	LER	SCH	EDU	JLE						
				NOM.	AMB.		W	/ATER		IPLV	E	LECTRICA	AL.	UNIT	OPER.	REFRIG		
TAG	MANUFACTURER & MODEL #	LOCATION	SERVICE	CAP.	DB	FLOW	EWT	LWT	P.D.	EER	V/PH	LOAD	МОСР	SIZE	WT.		ANCHORAGE DETAIL	REMARKS
				(TONS)	(°F)	(GPM)	(°F)	(°F)	(FT.WG.)			(MCA)		(L" × W" × H")	(LBS)		DETAIL	
ACCH-1	CARRIER 30RB120	GRADE	(E) AHU'S	120.1	95	287	54	44	17.3	16.87	460/3	262	300	189X89X90	7700	R-41A	SSD	

NOTES: 1. AT ARI CONDITIONS; MAXIMUM CAPACITY AT LISTED CONDITIONS.

2. INTEGRAL STARTER BY MFR; PROVIDE LOCAL DISCONNECT.

4. COMPONENTS PROVIDED FOR FIELD INSTALLATION: WIND BAFFLE.2

3. WITH LOW SOUND PACKAGE

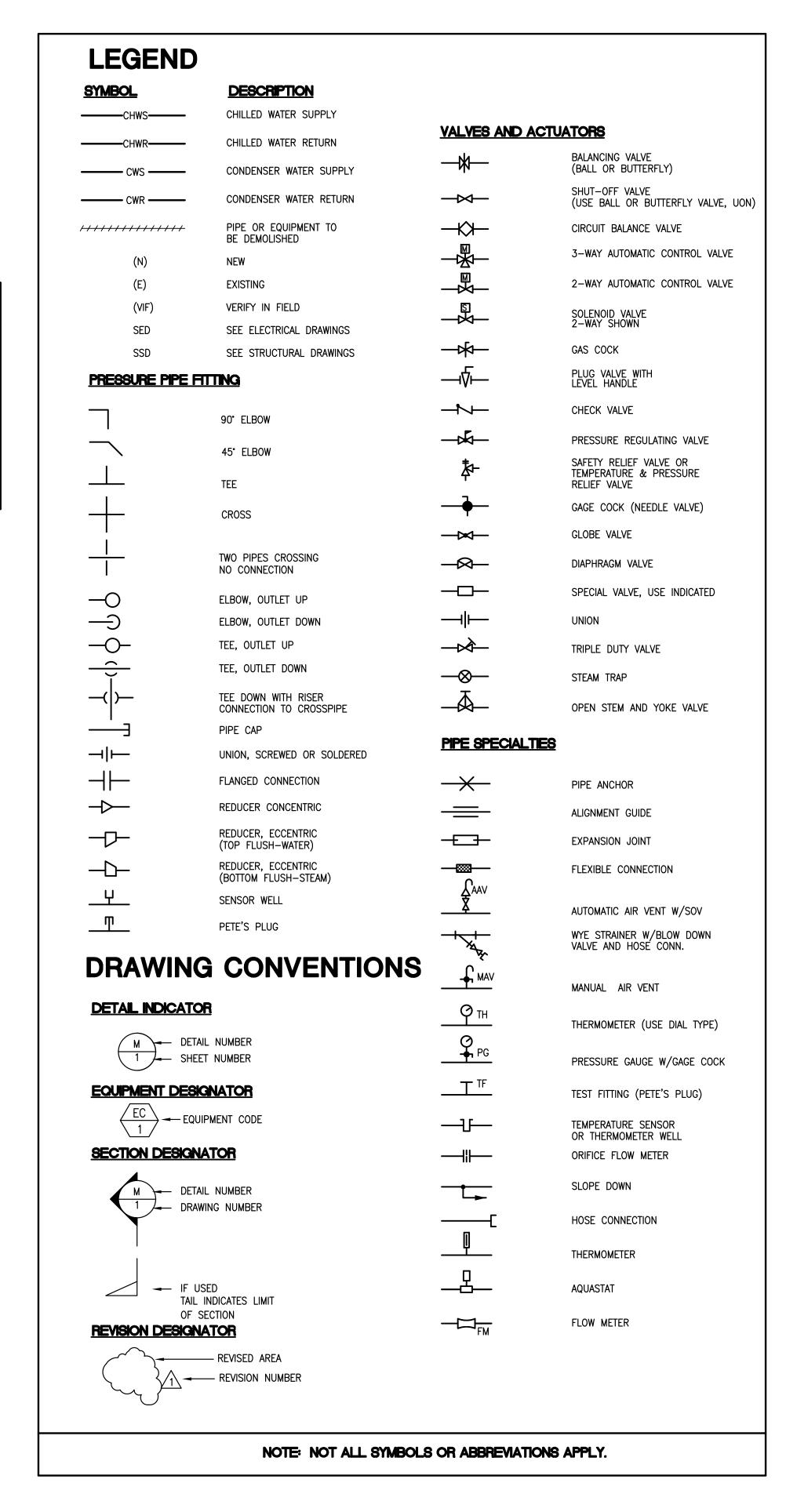
5. CONTROL SHALL BE LOCAL, ON-BOARD MICRO-PROCESSOR, WITH LEAVING WATER SET POINT (45 DEGR F).

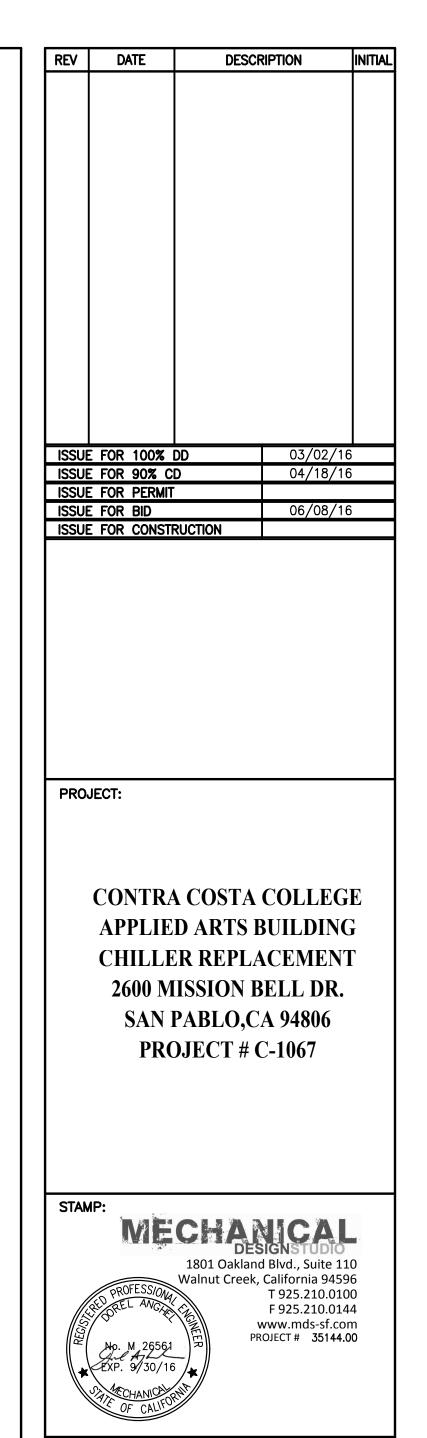
6. CHILLER MANUFACTURER TO PROVIDE CONTROLS INTERFACE FOR INTEGRATION WITH BMS.

7. SINGLE PUMP W/VFD (PRIMARY CIRCUIT - 287 GPM @ 30 FT).

		CH	ILLED WA	TEF	R P	UMF	SC	HE	DUI	_E					
			CED/IOE	E1.1116						EL	ECTRIC	CAL		OPER.	
TAG	MANUFACTURER & MODEL #	LOCATION	SERVICE	FLUID	GPM	FT. HD	EFF. (%)	BHP	HP	VOLT	PH	CYCLE	RPM	WEIGHT (LBS)	REMARKS
PCH-1	B&G SERIES e-1531-2.5BB	MECH. RM.	CHILLED WATER	WATER	245	60	75.4	4.9	7.5	460	3	60	1750	330	(1)(2)(3)
PCH-2	B&G SERIES e-1531-1.5BC	MECH. RM.	CHILLED WATER	WATER	65	60	55.7	1.9	3.0	460	3	60	1750	225	(1)(2)(3)

NOTES: (1) PROVIDE PUMPS WITH GAGE TAPS ON SUCTION AND DISCHARGE LINES. (3) VFD - ABB 550 (2) CLOSE COUPLED





KEY PLAN:

SHEET TITLE:

LEGEND, AND

SCHEDULES

SCALE NONE
PROJ. NO. 35144.00

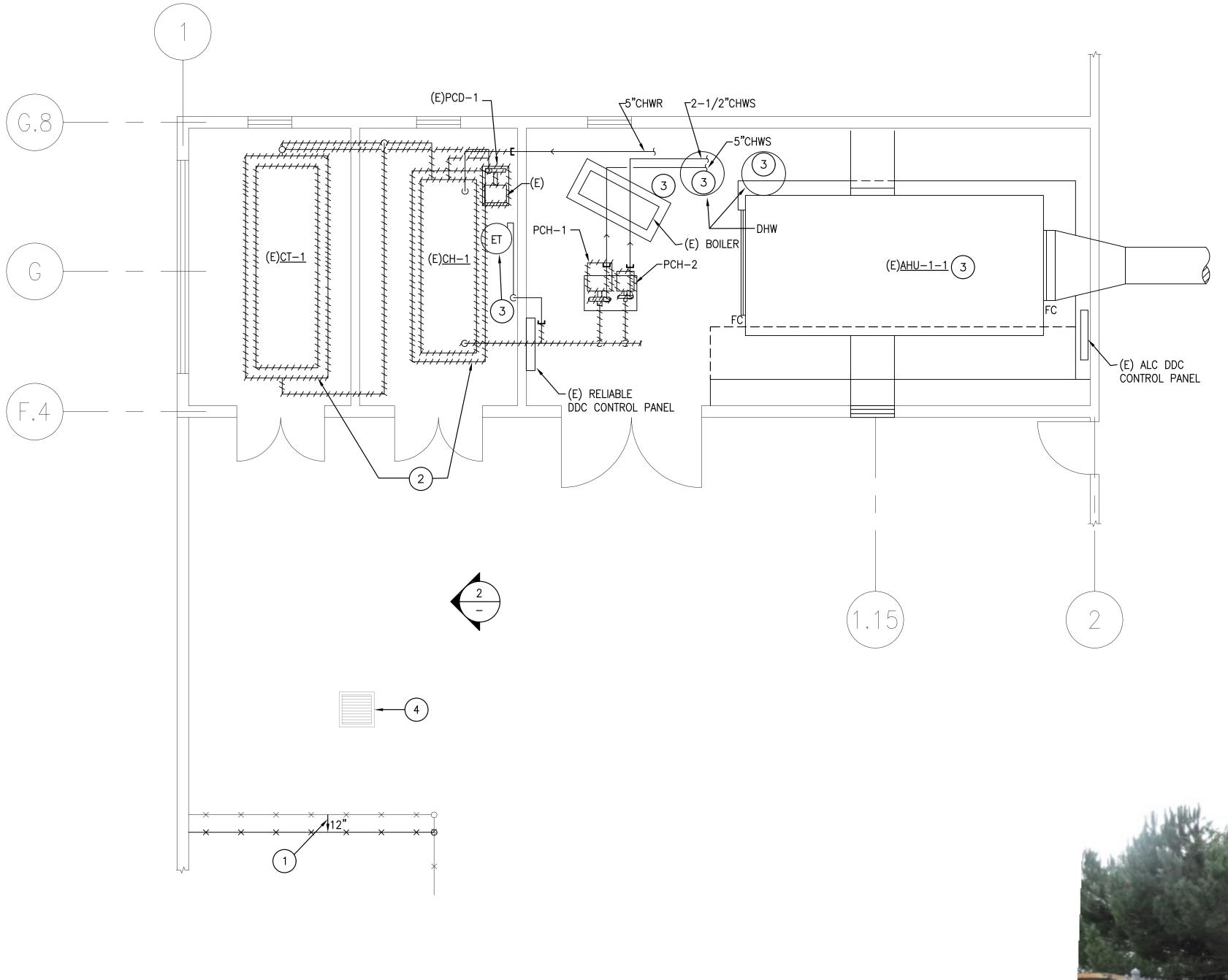
SHEET NUMBER:

NUMBER:

PREPARATION AND REVIEW PURPOSE PERSONAL/INITIAL DATE

DRAWN BY JW/FC 03/01/16
PEER REVIEW DA

OF:



CHILLER ROOM DEMOLITION PLAN

SCALE: 1/4" = 1'-0"

SHEET NOTES (#)

- RELOCATE (E) CHAIN LINK FENCE. PROVIDE GATE OR REMOVABLE SECTION FOR ACCESS (SEE GENERAL NOTE 3).
- 2. DEMOLISH (E) CONCRETE PADS.
- 3. (E) EQUIPMENT AND ASSOCIATED PIPING AND CONTROLS TO
- 4. INCLUDE A BID ALTERNATE TO RELOCATE THE (E) AREA DRAIN AND NEARBY PIPING IF NEEDED BY THE (N) CHILLER FOOTING CONSTRUCTION.

GENERAL NOTES

- 1. FOR EACH PIECE OF EQUIPMENT TO BE DEMOLISHED AND REMOVED ALSO DEMOLISH AND REMOVE ASSOCIATED PIPING CONTROLS, SUPPORTS, ACCESSORIES, EQUIPMENT PADS. DISCONNECT (E) PIPING, CAP AND LEAVE IN PLACE WHERE
- 2. FIELD VERIFY AND RECORD ALL EXISTING CONDITIONS PRIOR TO START OF DEMOLITION.
- DO NOT RELOCATE (E) CHAIN LINK FENCE IF SUBMITTED CHILLER MANUFACTURER CONFIRMS THAT (E) CLEARANCES ARE ACCEPTABLE.



(E) YARD AREA DIMENSIONS
SCALE: NONE

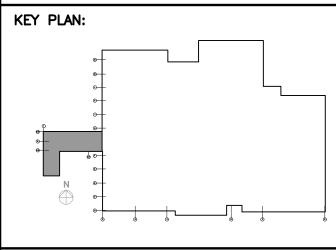
DESCRIPTION

ISSUE FOR 100% DD	03/02/16
ISSUE FOR 90% CD	04/18/16
ISSUE FOR PERMIT	
ISSUE FOR BID	06/08/16
ISSUE FOR CONSTRUCTION	

PROJECT:

CONTRA COSTA COLLEGE APPLIED ARTS BUILDING CHILLER REPLACEMENT 2600 MISSION BELL DR. SAN PABLO,CA 94806 **PROJECT # C-1067**





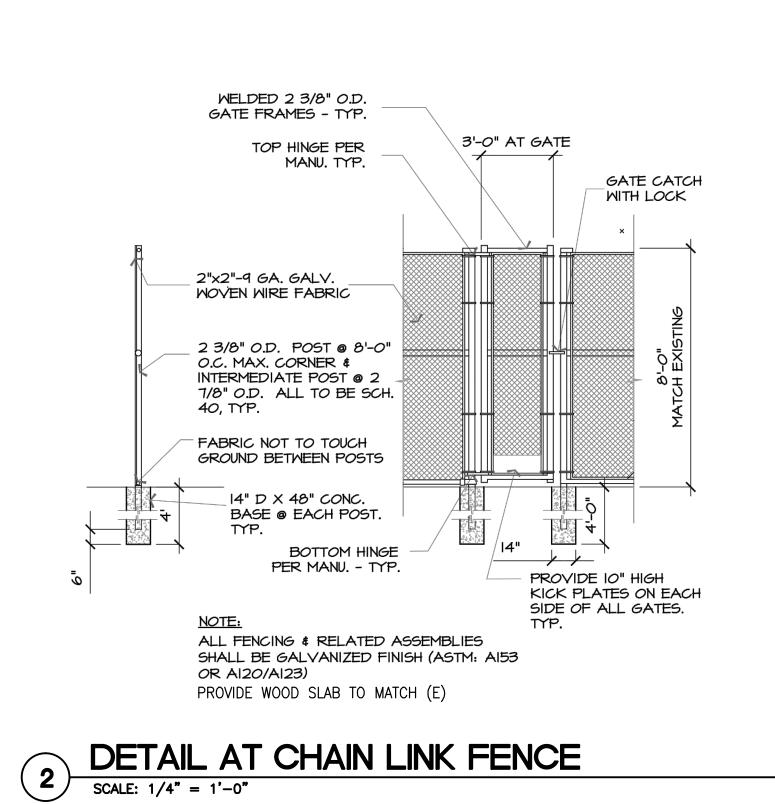
SHEET TITLE: CHILLER ROOM DEMOLITION PLAN

SCALE	AS NOTED	
PROJ. NO.	35144.00	
PREP/	ARATION AND REVIE	W
PURPOSE	PERSONAL/INITIAL	DATE
DRAWN BY	JW/FC	03/01/
PEER REVIEW	DA	

SHEET NUMBER:

M1.0

XREFS: $X35144-TB.dwg\ X-PLAN.dwg\ X-KEYPLAN.dwg$



√2-1/2"CHWS (E)<u>AHU-1-1</u> ∽(E) ALC DDC CONTROL PANEL -(E) RELIABLE DDC CONTROL PANEL (4) 5" CHWS & R— - (N) PAIR OF 3'-0" CHAIN LINK GATES. MATCH THE EXISTING FENCE HEIGHT. (E) AD (N) CHAIN LINK GATE. MATCH THE EXISTING FENCE HEIGHT. — (E) CHAIN LINE FENCE TO REMAIN. MODIFY FOR CONNECTION TO NEW FENCE.

1 CHLLER YARD PLAN - NEW CONSTRUCTION SCALE: 1/4" = 1'-0"

N

SHEET NOTES

- 1. PROVIDE LOCKING SYSTEM AT ALL GATES AS REQUIRED BY THE DISTRICT. COMPLY WITH ALL CODES AND REGULATIONS. TYP.
- 2. KEEP PIPING AS HIGH AS POSSIBLE FOR ROOM ACCESS. SUPPORT FROM WALL WITH UNISTRUT BRACKETS AND PIPE CLAMPS (TOLCO OR EQUAL).
- 3. SUPPORT PIPING ON TOLCO ("DURA BLOCK" OR EQUAL) SUPPORTS. (LEVEL)
- 4. ALL EXPOSED TO WEATHER PIPING SHALL BE ALUMINUM JACKETED OVER INSULATION.
- 5. REFER TO STRUCTURAL DRAWINGS S1, S1 AND S3 FOR CHILLER SUPPORT
- 6. MAINTAIN FULL ACCESS TO DOORS.
- 7. FIELD VERIFY THAT (N) CHAIN LINK FENCE MATCHES HEIGHT OF (E).
- 8. REFER TO DETAIL 3/M4.1.
- 9. RELOCATE (E) EXPANSION TANK AND EXTEND PIPING.
- 10. LOCATE NORTH OF (E) ELECTRICAL PANELS.

GENERAL NOTES

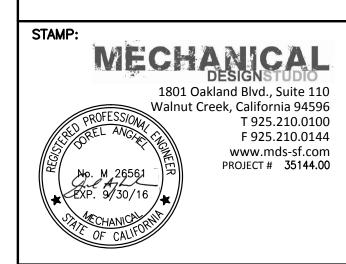
- 1. REFER TO STRUCTURAL DRAWINGS FOR CHILLER SUPPORTS.
- 2. REFER TO DRAWING MO.1 FOR EQUIPMENT SCHEDULES.

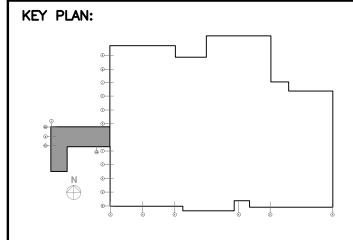
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ISSUE	FOR 90% C	D	04/18/16	
	FOR PERMIT			

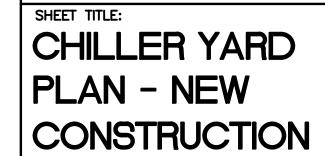
ISSUE FOR 100% DD	03/02/16
ISSUE FOR 90% CD	04/18/16
ISSUE FOR PERMIT	
ISSUE FOR BID	06/08/16
ISSUE FOR CONSTRUCTION	

PROJECT:

CONTRA COSTA COLLEGE
APPLIED ARTS BUILDING
CHILLER REPLACEMENT
2600 MISSION BELL DR.
SAN PABLO,CA 94806
PROJECT # C-1067







SCALE	as noted	
PROJ. NO.	35144.00	
PREP/	ARATION AND REVIE	EW .
PURPOSE	PERSONAL/INITIAL	DATE
DRAWN BY	JW/FC	03/01/16
PEER REVIEW	DA	
		-

SHEET NUMBER:

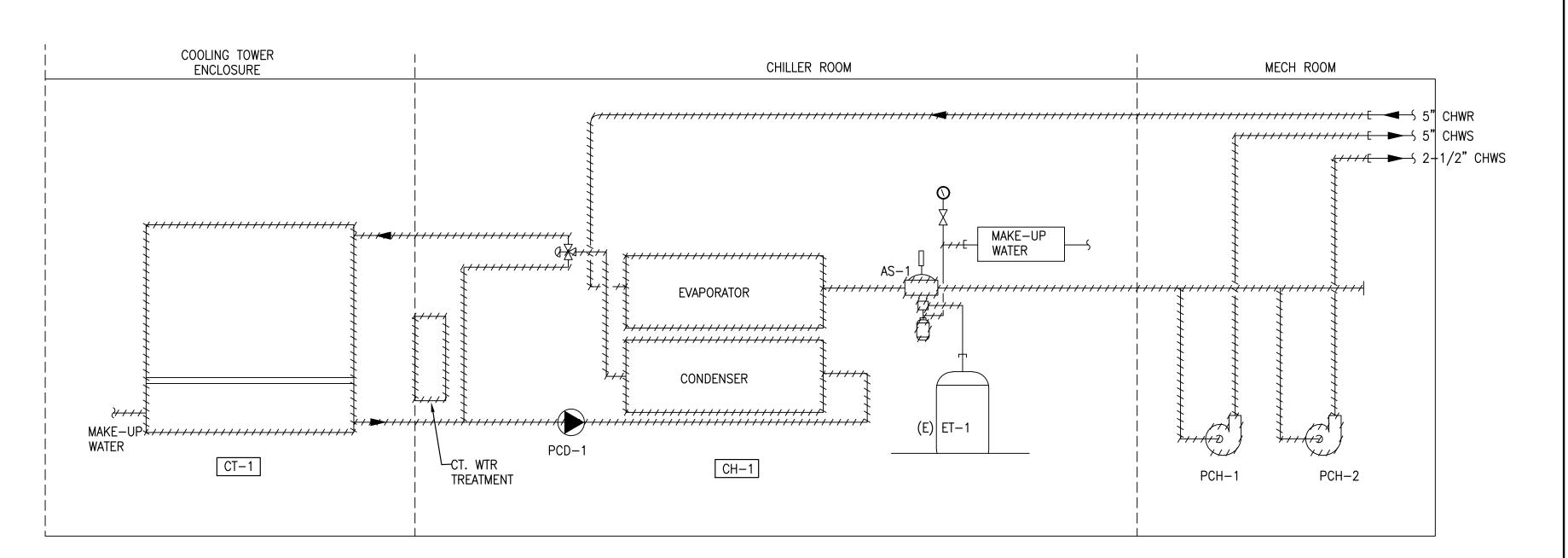
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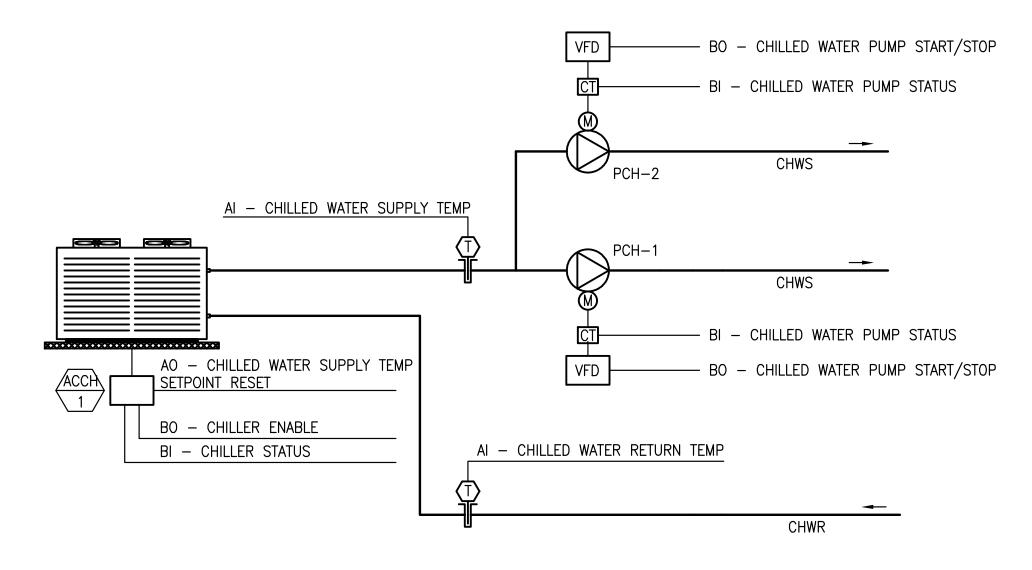
16 12:45:00 PM F:\C_0 _CONSTRUCTION ADMINISTRATION\35144.00

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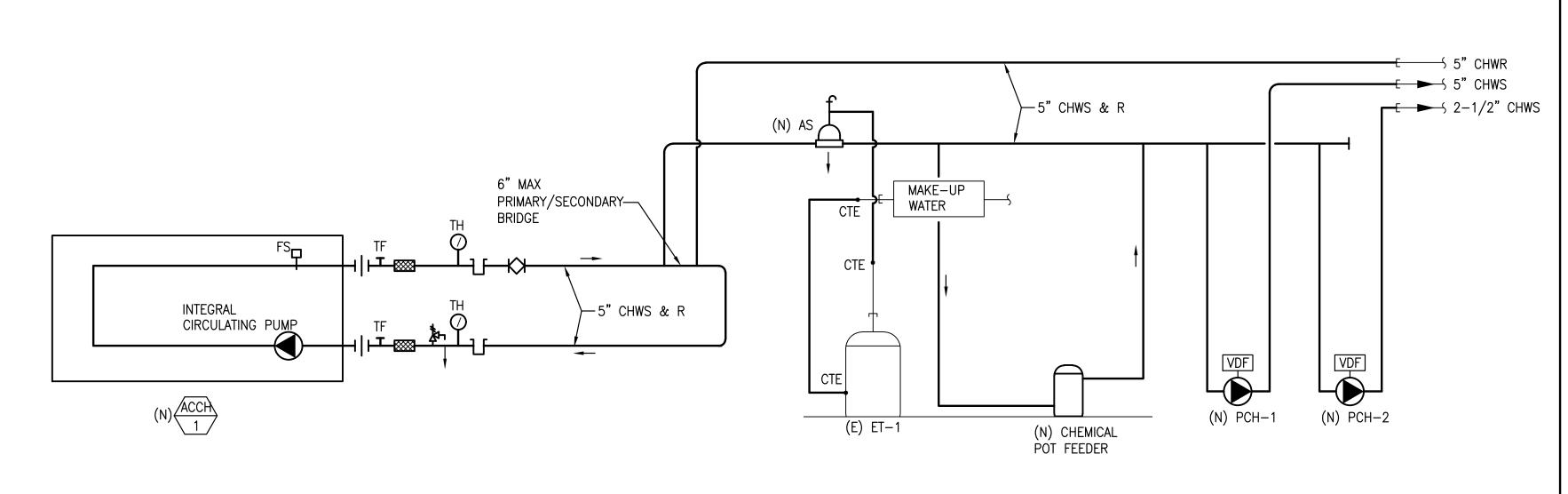
	H	ARDWAR	E POIN	TS	SOFTWARE POINTS						
POINT NAME	Al	AO	ВІ	ВО	AV	BV	LOOP	SCHED	TREND	ALARM	SHOW ON GRAPHIC
CHILLED WATER RETURN TEMP	Х								×		х
CHILLED WATER SUPPLY TEMP	Х								×		х
CHILLED WATER SUPPLY TEMP SETPOINT RESET		х							×		х
CHILLED WATER PUMP PCH-1 STATUS			х						×		х
CHILLED WATER PUMP PCH-2 STATUS			х						×		х
CHILLER STATUS			х						×		х
CHILLED WATER PUMP PCH-1 START/STOP				х							х
CHILLED WATER PUMP PCH-2 START/STOP				х							х
CHILLER ENABLE				х							х
OUTSIDE AIR TEMP					Х						х
CHILLED WATER PUMP PCH-1 FAILURE										×	
CHILLED WATER PUMP PCH-2 FAILURE										×	
CHILLED WATER PUMP PCH-1 RUNNING IN HAND										×	
CHILLED WATER PUMP PCH-2 RUNNING IN HAND										×	
CHILLED WATER PUMP PCH-1 RUNTIME EXCEEDED										x	
CHILLED WATER PUMP PCH-2 RUNTIME EXCEEDED										×	
CHILLER FAILURE										×	
CHILLER RUNNING IN HAND										×	
CHILLER RUNTIME EXCEEDED										х	
HIGH CHILLED WATER SUPPLY TEMP										×	
LOW CHILLED WATER SUPPLY TEMP										х	
TOTALS	2	1	3	3	1	0	0	0	6	11	10
	TOTAL	HARDW	ARE (9)	TOTAL	SOFTW	ARE (18)			



1 EXISTING CHILLED WATER PIPING DIAGRAM SCALE: N.T.S.

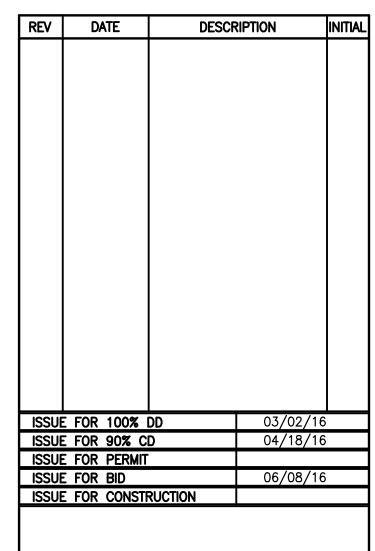


3 CHILLED WATER CONTROL DIAGRAM
SCALE: N.T.S.



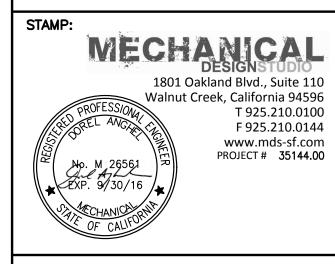
NEW CHILLED WATER PIPING DIAGRAM

SCALE: N.T.S.



PROJE

CONTRA COSTA COLLEGE
APPLIED ARTS BUILDING
CHILLER REPLACEMENT
2600 MISSION BELL DR.
SAN PABLO,CA 94806
PROJECT # C-1067



KEY PLAN:

CHILLED WATER
PIPING DIAGRAMS

SCALE NONE
PROJ. NO. 35144.00

PREPARATION AND REVIEW
PURPOSE PERSONAL/INITIAL DATE
DRAWN BY JW/FC 03/01/16
PEER REVIEW DA

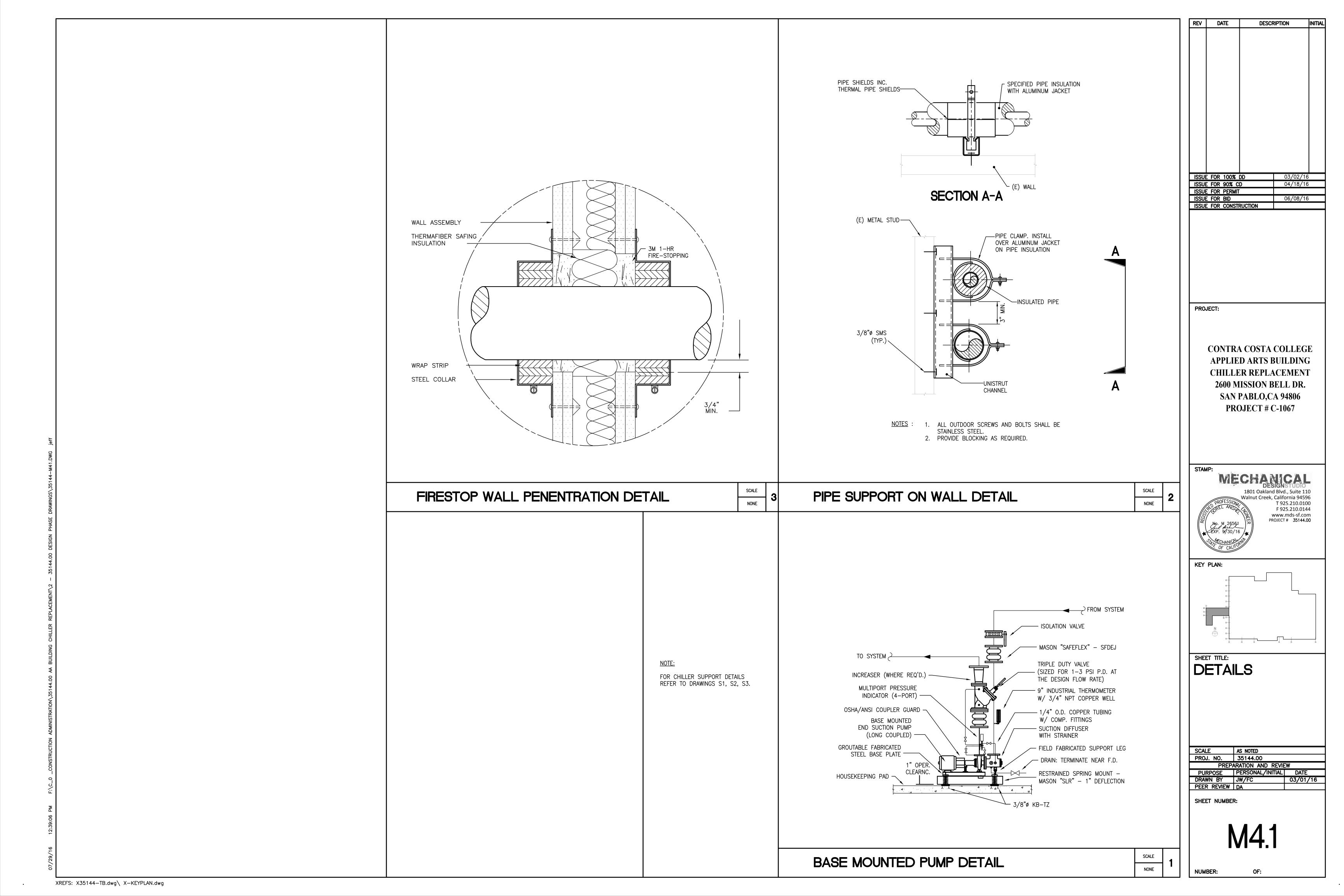
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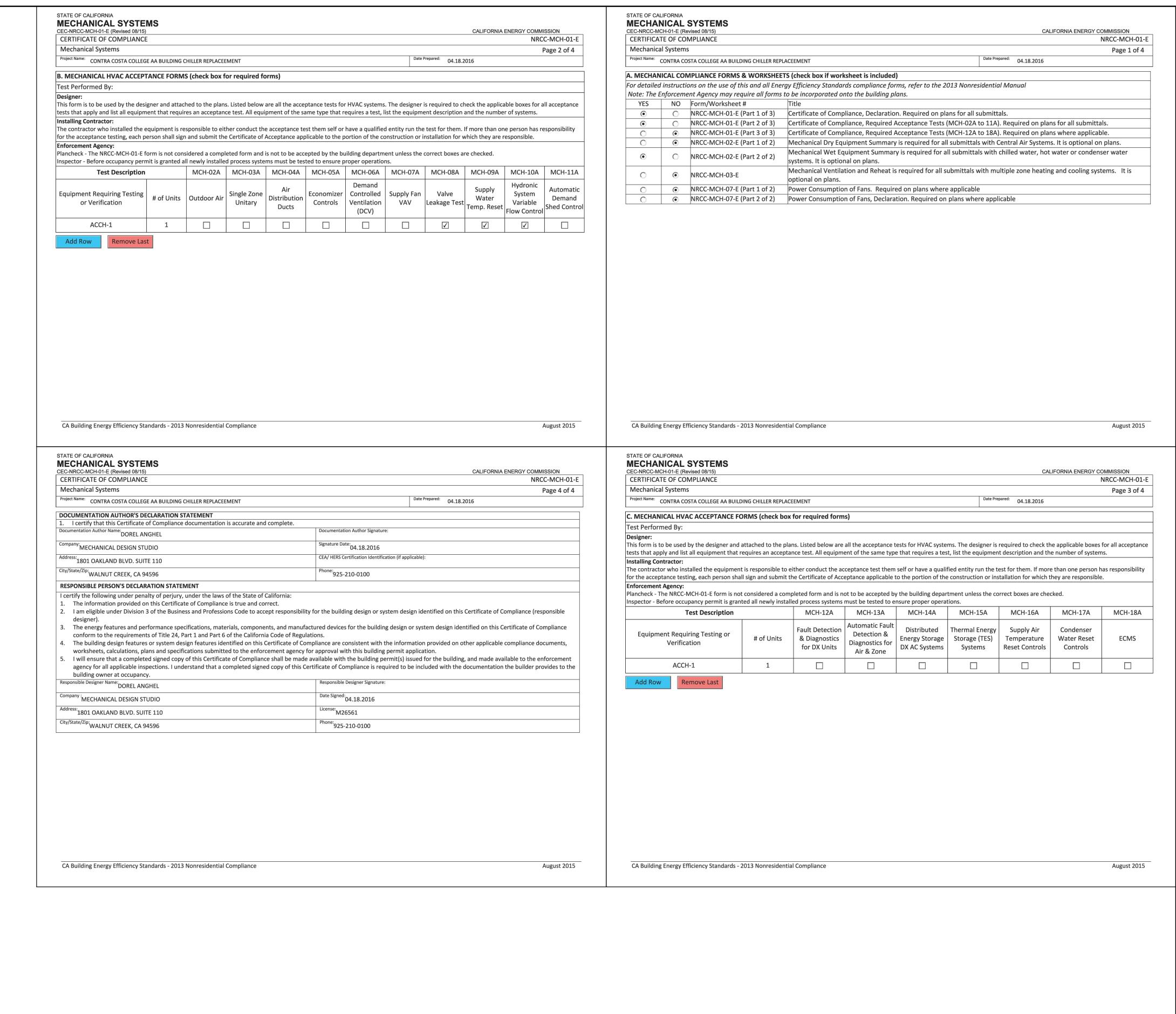
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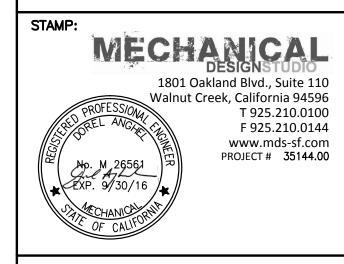
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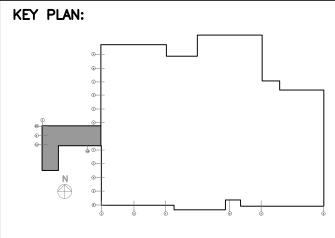
ISSUE FOR 100% DD 03/02/16

ISSUE FOR	100% DD	03/02/16
ISSUE FOR	90% CD	04/18/16
ISSUE FOR	PERMIT	
ISSUE FOR	BID	06/08/16
ISSUE FOR	CONSTRUCTION	

PROJECT:

CONTRA COSTA COLLEGE
APPLIED ARTS BUILDING
CHILLER REPLACEMENT
2600 MISSION BELL DR.
SAN PABLO,CA 94806
PROJECT # C-1067







SCALE	NONE								
PROJ. NO.	35144.00								
PREPARATION AND REVIEW									
PURPOSE	PURPOSE PERSONAL/INITIAL DATE								
DRAWN BY	JW/FC	03/01/16							
PEER REVIEW	DA								
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NUMBER:

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CEC-NRCC-MCH-02-E (Revised 08/15)	CALIFORNIA ENERGY COMMISSION
CERTIFICATE OF COMPLIANCE HVAC Wet System Requirements	NRCC-MCH-(
Project Name: CONTRA COSTA COLLEGE AA BUILDING CHILLER R	
CONTRA COSTA COLLEGE AA BOILDING CHILLER R	REPLACEEIVIENT 04.16.2016
DOCUMENTATION AUTHOR'S DECLARATION STATEMENT	
I certify that this Certificate of Compliance documenta Decumentation Author Name:	tion is accurate and complete. Documentation Author Signature:
Documentation Author Name: DOREL ANGHEL	
Company: MECHANICAL DESIGN STUDIO	Signature Date: 04.18.2016
Address: 1801 OAKLAND BLVD. SUITE 110	CEA/ HERS Certification Identification (if applicable):
City/State/Zip: WALNUT CREEK, CA 94596	Phone: 925-210-0100
RESPONSIBLE PERSON'S DECLARATION STATEMENT	
design identified on this Certificate of Compliance con Regulations.4. The building design features or system design features	materials, components, and manufactured devices for the building design or system form to the requirements of Title 24, Part 1 and Part 6 of the California Code of sidentified on this Certificate of Compliance are consistent with the information
 The energy features and performance specifications, r design identified on this Certificate of Compliance con Regulations. The building design features or system design features provided on other applicable compliance documents, agency for approval with this building permit applicati I will ensure that a completed signed copy of this Certibuilding, and made available to the enforcement agent 	le designer). materials, components, and manufactured devices for the building design or system iform to the requirements of Title 24, Part 1 and Part 6 of the California Code of s identified on this Certificate of Compliance are consistent with the information worksheets, calculations, plans and specifications submitted to the enforcement
 The energy features and performance specifications, r design identified on this Certificate of Compliance con Regulations. The building design features or system design features provided on other applicable compliance documents, agency for approval with this building permit applicatis. I will ensure that a completed signed copy of this Certibuilding, and made available to the enforcement agent Certificate of Compliance is required to be included wind Responsible Designer Name: DOREL ANGHEL 	le designer). materials, components, and manufactured devices for the building design or system form to the requirements of Title 24, Part 1 and Part 6 of the California Code of sidentified on this Certificate of Compliance are consistent with the information worksheets, calculations, plans and specifications submitted to the enforcement ion. ificate of Compliance shall be made available with the building permit(s) issued for the tory for all applicable inspections. I understand that a completed signed copy of this ith the documentation the builder provides to the building owner at occupancy. Responsible Designer Signature:
 The energy features and performance specifications, redesign identified on this Certificate of Compliance con Regulations. The building design features or system design features provided on other applicable compliance documents, agency for approval with this building permit applicatis. I will ensure that a completed signed copy of this Certibuilding, and made available to the enforcement agent Certificate of Compliance is required to be included with Responsible Designer Name: DOREL ANGHEL 	le designer). materials, components, and manufactured devices for the building design or system form to the requirements of Title 24, Part 1 and Part 6 of the California Code of sidentified on this Certificate of Compliance are consistent with the information worksheets, calculations, plans and specifications submitted to the enforcement ion. ifficate of Compliance shall be made available with the building permit(s) issued for the toty for all applicable inspections. I understand that a completed signed copy of this ith the documentation the builder provides to the building owner at occupancy. Responsible Designer Signature: Date Signed: 04.18.2016
 The energy features and performance specifications, r design identified on this Certificate of Compliance con Regulations. The building design features or system design features provided on other applicable compliance documents, agency for approval with this building permit applicati I will ensure that a completed signed copy of this Certibuilding, and made available to the enforcement agen Certificate of Compliance is required to be included wind Responsible Designer Name: DOREL ANGHEL	le designer). materials, components, and manufactured devices for the building design or system form to the requirements of Title 24, Part 1 and Part 6 of the California Code of sidentified on this Certificate of Compliance are consistent with the information worksheets, calculations, plans and specifications submitted to the enforcement ion. ificate of Compliance shall be made available with the building permit(s) issued for the tory for all applicable inspections. I understand that a completed signed copy of this ith the documentation the builder provides to the building owner at occupancy. Responsible Designer Signature:

CA Building Energy Efficiency Standards - 2013 Nonresidential Compliance

CERTIFICATE OF COMPLIANCE				NRCC-M	CH-02-I		
HVAC Wet System Requirements				(Pag	e 2 of 3		
Project Name: CONTRA COSTA COLLEGE AA BUILDING	CHILLER REPLACEEMENT		Date Prepared: 04.18.2016				
B. Equipment Tags and System Desc	ription ¹	ACCH-1					
MANDATORY MEASURES	T-24 Sections	Reference to the	Requirements in the Co	ontract Doc	uments		
Heating Hot Water Equipment Efficiency ³	110.1	NA					
Cooling Chilled and Condenser Water Equipment Efficiency ³	110.1, 140.4(i)	M0.1					
Open and Closed Circuit Cooling Towers conductivity or flow-based controls	110.2(e) 1	NA					
Open and Closed Circuit Cooling Towers Maximum Achievable Cycles of Concentration (LSI) ⁶	110.2(e) 2	NA					
Open and Closed Circuit Cooling Towers Flow Meter with analog output	110.2(e) 3	NA					
Open and Closed Circuit Cooling Towers Overflow Alarm	110.2(e) 4	NA					
Open and Closed Circuit Cooling Towers Efficient Drift Eliminators	110.2(e) 5	NA					
Pipe Insulation	120.3	M0.1					
PRESCRIPTIVE MEASURES							
Cooling Tower Fan Controls	140.4(h)2, 140.4(h)5	O Yes O No	O Yes O No	O Yes	O No		
Cooling Tower Flow Controls	140.4(h)3	NA					
Centrifugal Fan Cooling Towers ⁴	140.4(h)4	NA					
Air-Cooled Chiller Limitation ⁵	140.4(j)	< 300 TONS					
Variable Flow System Design	140.4(k)	Υ					
Chiller and Boiler Isolation	140.4(k)	NA					
CHW and HHW Reset Controls	140.4(k)	Υ					
WLHP Isolation Valves	140.4(k)	NA					
VSD on CHW, CW & WLHP Pumps >5HP	140.4(k)	Υ					
DP Sensor Location	140.4(k)	NA					
Notes: 1. Provide equipment tags (e.g. CH 1 to 3) requirements can be grouped together. 2. Provide references to plans (i.e. Drawin paragraphs) where each requirement is	g Sheet Numbers) and/or	specifications (inclu	iding Section name/num	nber and rele			

Pipe Insulation	120.3	M0.1		
PRESCRIPTIVE MEASURES				
Cooling Tower Fan Controls	140.4(h)2, 140.4(h)5	O Yes O No	O Yes O No	O Yes O No
Cooling Tower Flow Controls	140.4(h)3	NA		
Centrifugal Fan Cooling Towers ⁴	140.4(h)4	NA		
Air-Cooled Chiller Limitation ⁵	140.4(j)	< 300 TONS		
Variable Flow System Design	140.4(k)	Υ		
Chiller and Boiler Isolation	140.4(k)	NA		
CHW and HHW Reset Controls	140.4(k)	Υ		
WLHP Isolation Valves	140.4(k)	NA		
VSD on CHW, CW & WLHP Pumps >5HP	140.4(k)	Υ		
DP Sensor Location	140.4(k)	NA		
 Provide equipment tags (e.g. CH 1 to 3) requirements can be grouped together. Provide references to plans (i.e. Drawin paragraphs) where each requirement is 	g Sheet Numbers) and/or	specifications (includi	ng Section name/num	nber and relevant
3. The referenced plans and specifications capacity, Title 24 minimum efficiency re requirements are applicable (e.g. full- a Kadj values. For chillers also note whet	must include all of the fo equirements, and actual rand agart-load) include all.	llowing information: e ated equipment efficie For chillers operating	quipment tag, equipn encies. Where multiple	nent nominal e efficiency
4. Identify if cooling towers have propelled	fans. If towers use centr	ifugal fans document	which exception is use	ed.
5. If air-cooled chillers are used, documen		een used to comply w	ith 140.4(j) and the to	tal installed design
capacity of the air-cooled chillers in the			5 - 8 80	
6. Identify the existence of a completed M	ICH-06-E \when open or c	losed circuit cooling to	wers are specified to	be installed,

CA Building Energy Efficiency Standards - 2013 Nonresidential Compliance August 2015

otherwise enter "N/A".

August 2015

CALIFORNIA ENERGY COMMISSION **HVAC SYSTEM REQUIREMENTS** CEC-NRCC-MCH-02-E (Revised 08/15) CERTIFICATE OF COMPLIANCE NRCC-MCH-02-E HVAC Dry System Requirements (Page 1 of 3) Project Name: CONTRA COSTA COLLEGE AA BUILDING CHILLER REPLACEEMENT Date Prepared: 04.18.2016

A. Equipment Tags and System Descr	iption ¹	ACCH-1		
MANDATORY MEASURES	T-24 Sections	Reference to the R	equirements in the Contract Documents ²	
Heating Equipment Efficiency ³	110.1 or 110.2(a)	NA		
Cooling Equipment Efficiency ³	110.1 or 110.2(a)	NA		
HVAC or Heat Pump Thermostats	110.2(b), 110.2(c)	NA		
Furnace Standby Loss Control	110.2(d)	NA		
Low leakage AHUs	110.2(f)	NA		
Ventilation⁴	120.1(b)	NA		
Demand Control Ventilation ⁵	120.1(c)4	NA		
Occupant Sensor Ventilation Control ⁶	120.1(c)5, 120.2(e)3	NA		
Shutoff and Reset Controls ⁷	120.2(e)	NA		
Outdoor Air and Exhaust Damper Control	120.2(f)	NA		
Isolation Zones	120.2(g)	NA		
Automatic Demand Shed Controls	120.2(h)	NA		
Economizer FDD	120.2(i)	NA		
Duct Insulation	120.4	NA		
PRESCRIPTIVE MEASURES				
Equipment is sized in conformance with 140.4 (a & b)	140.4(a & b)	Yes No	Yes No	O Yes O No
Supply Fan Pressure Control	140.4(c)	NA		
Simultaneous Heat/Cool ⁸	140.4(d)	NA		

Economizer

Heat and Cool Air Supply Reset

Duct Leakage Sealing and Testing. 10

Electric Resistance Heating⁹

1. Provide equipment tags (e.g. AHU 1 to 10) and system description (e.g. Single Duct VAV reheat) as appropriate. Multiple units with common requirements can be grouped together.

NA

140.4(f)

140.4(g)

- 2. Provide references to plans (i.e. Drawing Sheet Numbers) and/or specifications (including Section name/number and relevant paragraphs) where each requirement is specified. Enter "N/A" if the requirement is not applicable to this system.
- The referenced plans and specifications must include all of the following information: equipment tag, equipment nominal capacity, Title 24 minimum efficiency requirements, and actual rated equipment efficiencies. Where multiple efficiency requirements are applicable (e.g. full- and part-load) include all. Where appliance standards apply (110.1), identify where equipment is required to be listed per Title 20 1601 et seq.
- 4. Identify where the ventilation requirements are documented for each central HVAC system. Include references to both central unit schedules and sequences of operation. If one or more space is naturally ventilated identify where this is documented in the plans and specifications. Multiple zone central air systems must also provide a MCH-03-E form.
- 5. If one or more space has demand controlled ventilation identify where it is specified including the sensor specifications and the sequence of operation.
- 6. If one or more space has occupant sensor ventilation control identify where it is specified including the sensor specifications and the sequence of operation
- 7. If the system is DDC identify the sequences for the system start/stop, optimal start, setback (if required) and setup (if required). For all systems identify the specification for the thermostats and time clocks (if applicable).
- 8. Identify where the heating, cooling and deadband airflows are scheduled for this system. Include a reference to the
- specification of the zone controls. Provide a MCH-03-E form. 9. Enter N/A if there is no electric heating. If the system has electric heating indicate which exception to 140.4(g) applies.
- 10. If duct leakage sealing and testing is required, a MCH-04-A form must be submitted.

CA Building Energy Efficiency Standards - 2013 Nonresidential Compliance

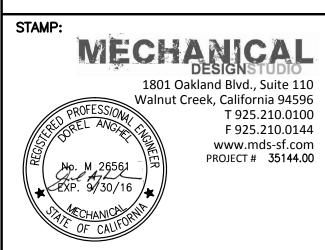
August 2015

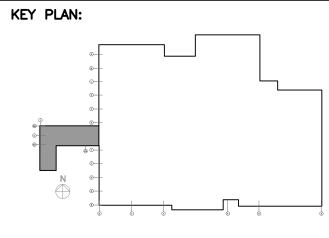
DESCRIPTION

ISSUE	FOR	100% [OD	03/02/16	
ISSUE	FOR	90% CI)	04/18/16	
ISSUE	FOR	PERMIT			
ISSUE	FOR	BID		06/08/16	
ISSUE	FOR	CONSTR	RUCTION		

PROJECT:

CONTRA COSTA COLLEGE APPLIED ARTS BUILDING CHILLER REPLACEMENT 2600 MISSION BELL DR. SAN PABLO,CA 94806 **PROJECT # C-1067**







SCALE	NONE			
PROJ. NO.	35144.00			
PREPARATION AND REVIEW				
PURPOSE	PERSONAL/INITIAL	DATE		
DRAWN BY	JW/FC	03/01/16		
PEER REVIEW	DA			

SHEET NUMBER:

XREFS: X35144-TB.dwg\ X-KEYPLAN.dwg