



# COUNTY OF ALAMEDA

PROJECT NAME:

REGISTRAR OF VOTERS - BASEMENT

1225 FALLON STREET OAKLAND, CA 94612 COVER

REGISTRAR OF VOTERS
- BASEMENT
1225 FALLON STREET
OAKLAND, CA 94612

REVISIONS

REVISIONS

DATE:

DRAWN BY:

PROJECT NO.:

T0

### GENERAL NOTES

demolition, etc.

- All work shall comply with the 2016 Edition of the CBC and all other codes and requirements, in their most recent edition including the following:
  - California State Building Code
    California Title 24 Energy Requirements
    2010 Americans with Disabilities Act
    NEC, the County of Alameda, and the City of Oakland
    plumbing, mechanical, and electrical codes.
- Contractor shall be responsible for all architectural, electrical, and fire protection work shown and required by the referenced codes.
- Contractor shall verify all dimensions and existing conditions prior to starting work. Any discrepancies shall be reported to the Architect for review.
- Do not scale drawings. Dimensions shall take precedence over scale.
- 5. Contractor certifies that he/ she has visited the site prior to submission of bid to review scope of work,
- 6. Dimensions are to face of finish, unless otherwise noted (U.O.N.).
- 7. Cutting and demolition shall be done by methods which will not jeopardize structural integrity of existing construction and will not damage portions to remain.
- 8. Contractors shall remove, cut, cap, and repair, as necessary, any utilities, including but not limited to: electrical, mechanical, plumbing, and fire sprinklers, where partitions are scheduled for demolition or are no longer operational or in service. All other existing utilities are to remain fully operational.
- Contractor is to provide all necessary dust protection and/or barricading required to protect adjacent spaces and existing finishes. Contractor is responsible to repair any damage caused by contractor or their subcontractors.
- 10. Patch and repair any damage to floors, walls, ceilings, hardware, fixtures, windows, etc. as a result of the construction process. Match existing adjacent finishes as closely as possible. Align and sand smooth.
- 11.In general, the Owner reserves the right to retain all materials and equipment removed from the project. Any items or material not desired by the Owner are to be removed from the site by Contractor at Contractor's expense.

SCALE: 1/16" = 1'-0"

- 12. If any questions arise as to the installation of any materials and/or equipment, or with the construction documents, the Contractor shall clarify the point with the Architect before proceeding.
- 13. Safety Measures: At all times the Contractor shall be solely and completely responsible for conditions of the job site including safety of persons and property. Comply with CAL—OSHA—regulations.
- 14. Construction of new walls, ceilings, utilities, etc. shall be modified, with Architect's approval, for installation when in conflict with existing construction.
- 15. Dimensions noted clear (clr.) are not adjustable without approval from the Architect.
- 16. The contractor shall do all cutting, fitting, or patching of work that may be required to make its parts fit together properly and shall not endanger any other work by cutting, excavation, or otherwise altering the total work or any part of it. All patching, repairing, and replacing of materials and surfaces, cut or damaged in execution of work, shall be done with applicable materials so that surfaces replaced will, upon completion, match surrounding similar surfaces.
- 17. Metal studs and furring shall provide plumb, true, straight, and rigid framing for support of collateral materials.
- 18. Install metal corner beads at all exposed outside gypsum board edges. All gypsum wallboard shall be 3—coat finished, taped, topped and sanded between coats. Finished surfaces shall be plumb, level, and plane, applied vertically, with joints on bearings. All gypsum wallboard shall be mill finished 48" by 5/8" thick, unless otherwise noted, by maximum length to minimize horizontal joints and tapered edges.
- 19. Contractor is responsible for all construction clean up.
- 20. For any conflict in the drawings and/or specifications, the more stringent requirement shall apply. Any such conflict shall be brought to the attention of the architect or engineer for resolution prior to construction of such items.
- 21. Contractor to provide submittals for products as requested by the County:
- a) New door and hardware.

# BUILDING INFORMATION

ADDRESS: 1225 FALLON STREET OAKLAND, CA 94612

CONTACT: DANA TRAN, SR. PROJECT MANAGER CAPITAL PROGRAM — GSA 1401 LAKESIDE DR., SUITE 800 OAKLAND, CA 94612 TELEPHONE: 510—407—7431 EMAIL: DANA.TRAN@ACGOV.ORG

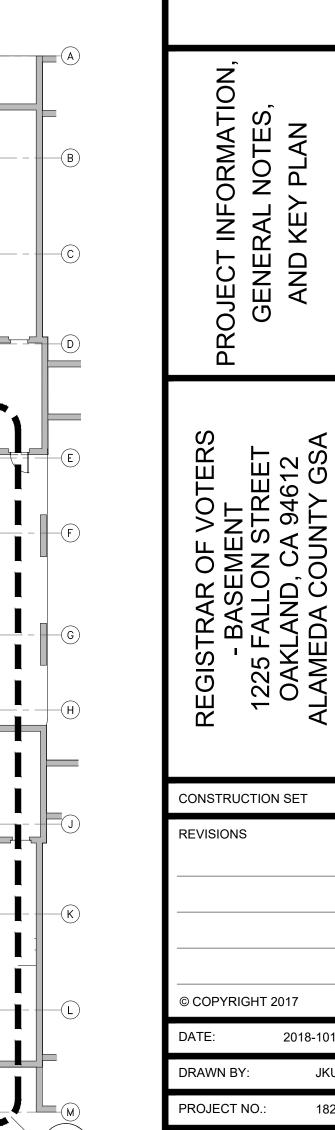
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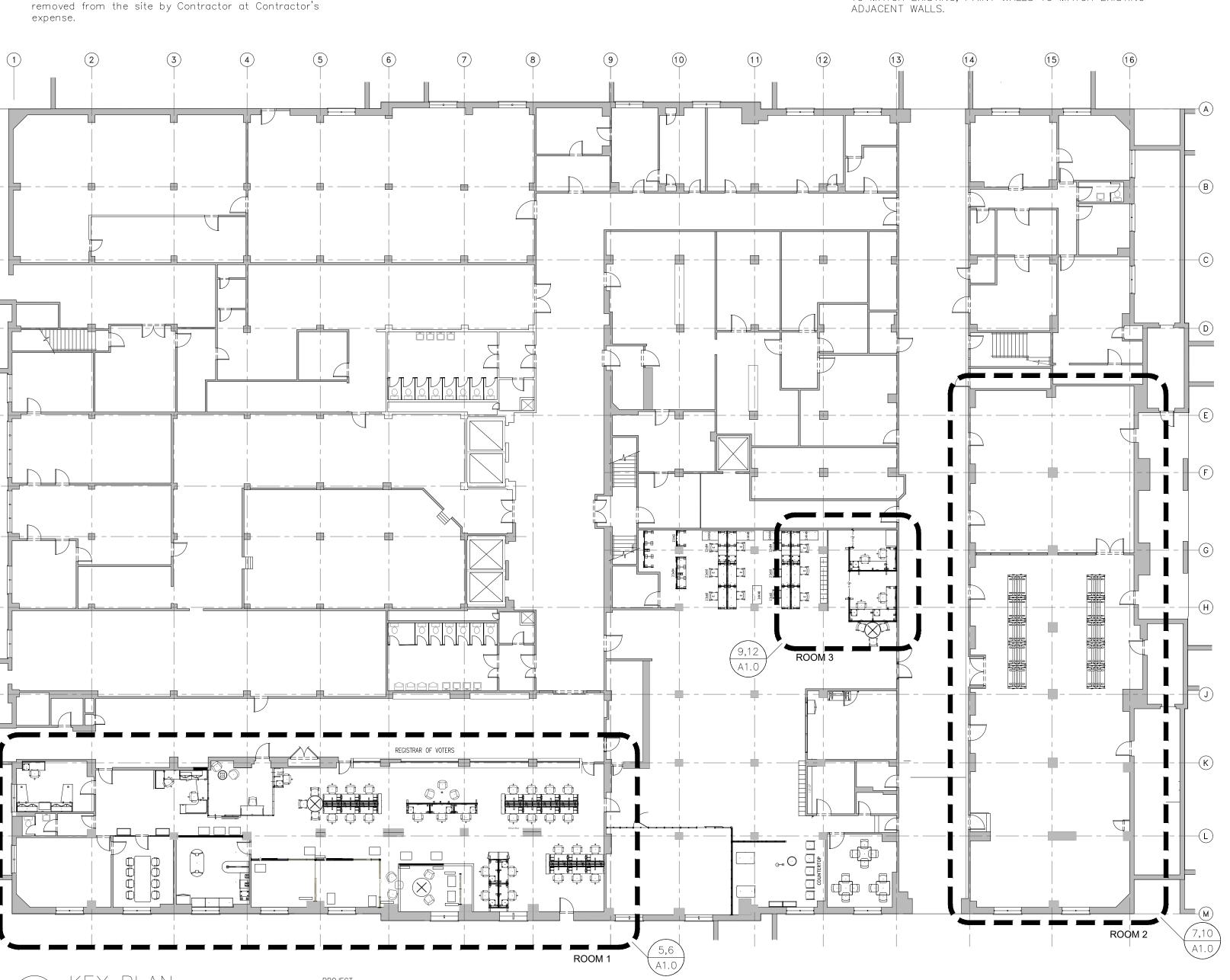
TO COVER

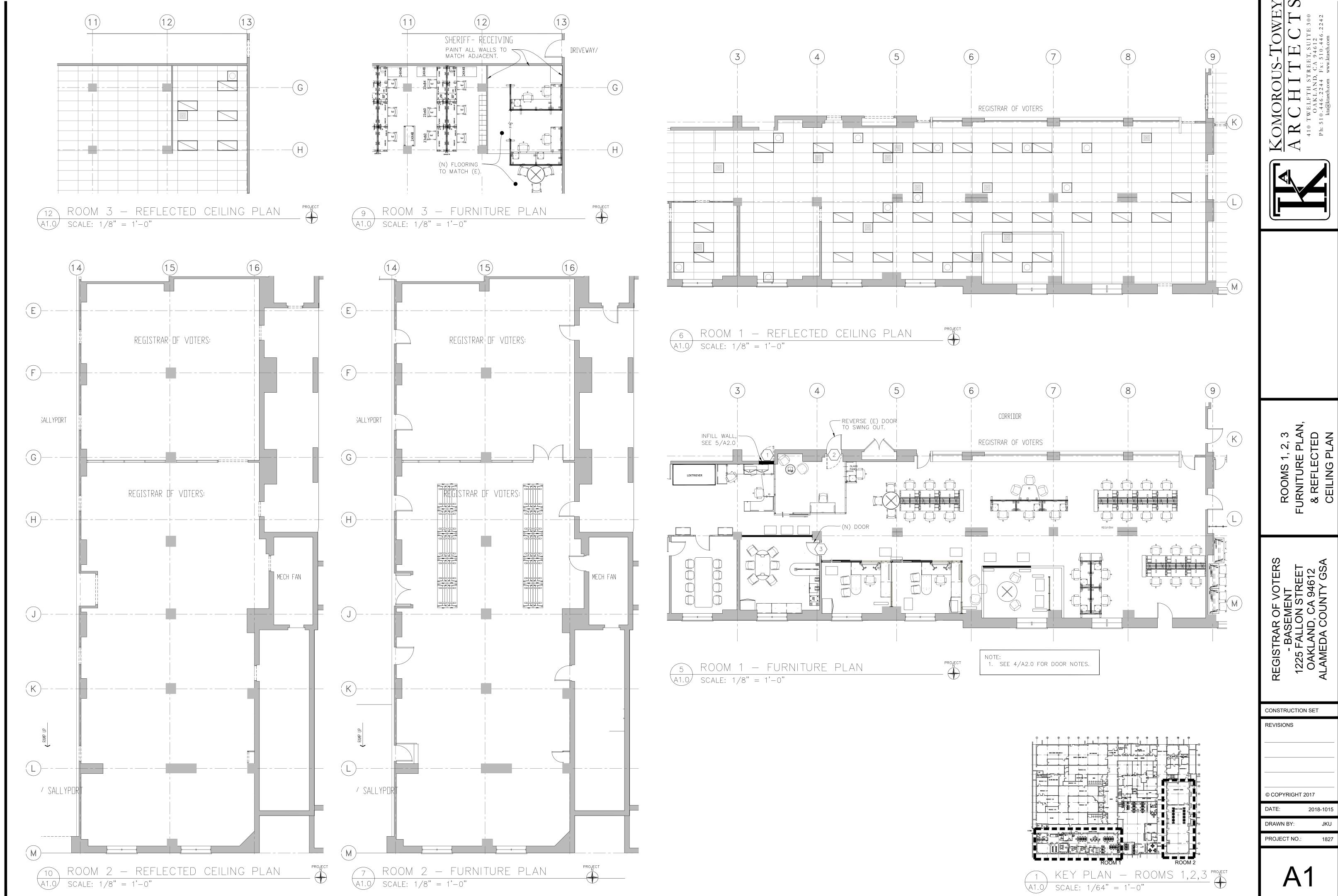
- T1 PROJECT INFORMATION, GENERAL NOTES, & KEY PLAN
- A1 ROOMS 1,2,3 FURNITURE & REFLECTED CEILING PLAN
- A2 DETAILS
- MOO1 MECHANICAL LEGEND, SYMBOLS AND GENERAL NOTES
- M002 MECHANICAL TITLE-24 FORMS
- M101 MECHANICAL FIRST FLOOR DEMOLITION PLAN
- M201 MECHANICAL FIRST FLOOR NEW PLAN
- EO1 GENERAL NOTES, LEGEND, AND ABBREVIATIONS
- E02 PANEL SCHEDULES
- E10 BASEMENT LIGHTING PLAN
- E20 BASEMENT POWER AND SIGNAL PLAN

#### SCOPE OF WORK

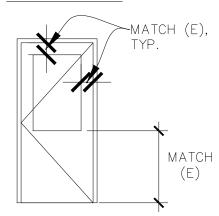
- 1. FLIP DOOR FOR ADA ENTRANCE, REUSE HARDWARE
- 2. NEW DOOR AT OFFICE
- REMOVE DOOR, AND INFILL W/ (N) WALL TO MATCH (E).
- 4. REMOVE EXISTING FLOORING IN ROOM 3, ADD NEW FLOORING TO MATCH EXISTING, PAINT WALLS TO MATCH EXISTING ADJACENT WALLS.







DOOR ELEVATION



DOOR 3

DOOR DESCRIPTION

DOOR 1: REMOVE AND SALVAGE EXISTING DOOR, FRAME, AND ALL ASSOCIATED HARDWARE FOR REUSE.

EXISTING DOOR. REVERSE SWING. MAKE ALL NECESSARY ADJUSTMENT TO DOOR FRAME, STRIKE BOX, AND DOOR HARDWARE. REUSE EXISTING HINGES AND CLOSER.
REPLACE LOCKSET WITH LOCKSET SALVAGED FROM DOOR 1.
VERIFY LOCK FUNCTION WITH OWNER. RE—MORTISE DOOR
AS NECESSARY FOR SALVAGED LOCKSET. PROVIDE NEW ESCUTCHEON AT LOCKSET AS NECESSARY. REMOVE AND REPLACE DOOR SIGNAGE TO MATCH AND READ CORRECTLY FROM THE CORRIDOR SIDE. PATCH AND FINISH ANY HOLES TO MATCH ADJACENT.

DOOR 3: EXISTING DOOR WAY. PROVIDE NEW STAIN GRADE, SOLID CORE WOOD DOOR WITH GLAZING. SEE ELEVATION. VERIFY DOOR SIZE FOR EXISTING FRAME. MODIFY DOOR FRAME CUTOUTS AS NECESSARY. PATCH ANY EXISTING HOLES. PROVIDE COMMERCIAL GRADE HINGES, LEVER LOCKSET WITH OFFICE FUNCTION PER BUILDING STANDARDS, AND DOOR STOP. HARDWARE FINISH TO MATCH EXISTING ADJACENT. STAIN DOOR TO MATCH EXISTING ADJACENT DOOR FINISHES.
PAINT DOOR FRAME IN COLOR SELECTED BY OWNER.

DOOR NOTES

A2.0 SCALE: N.T.S.

DATE:

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OAKLAND, CA 94612
ALAMEDA COUNTY GSA

CONSTRUCTION SET

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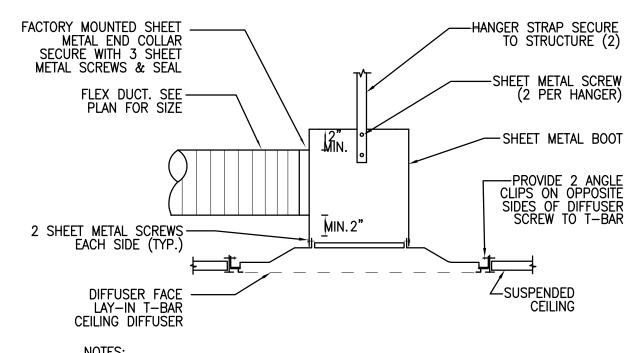
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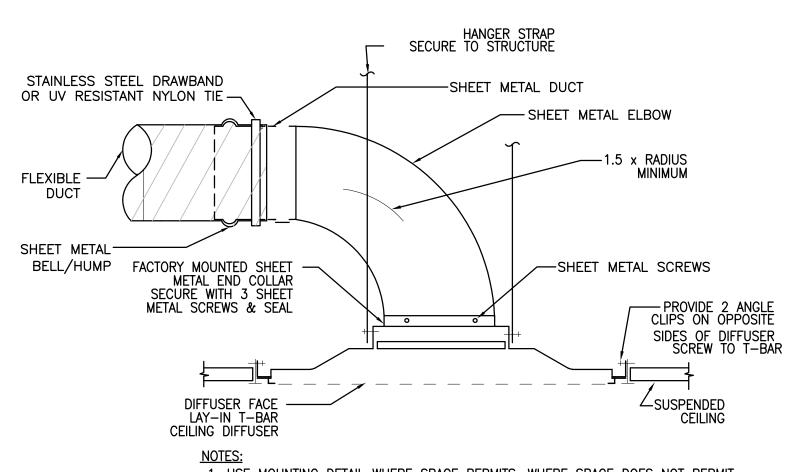
REVISIONS

		AIR REGIS	STER SCHEDULE	
MARK	MODEL NO.	TYPE	REMARKS	NOTES
-	TITUS PAS	CEILING SUPPLY DIFFUSER	PERFORATED FACE, ADJUSTABLE DIRECTIONAL BLADES, COATED GALVANIZED SHEET METAL CONSTRUCTION; 24X24 MODULE, SEE PLANS FOR NECK SIZE.	1, 2
	TITUS PAR	CEILING RETURN REGISTER	PERFORATED FACE, COATED GALVANIZED SHEET METAL CONSTRUCTION. 24X24 MODULE, 22X22 NECK	1, 2

1. FRAMES TO MATCH CEILING TYPE AND WITH BAKED WHITE ENAMEL FINISH. 2. NECK SIZE SAME AS BRANCH DUCT SIZE UNLESS OTHERWISE NOTED.



1. USE THIS DETAIL WHERE 1.5 x RADIUS ON FLEXIBLE DUCT IS NOT POSSIBLE. 2. SIMILAR FOR GYP BOARD CEILING.

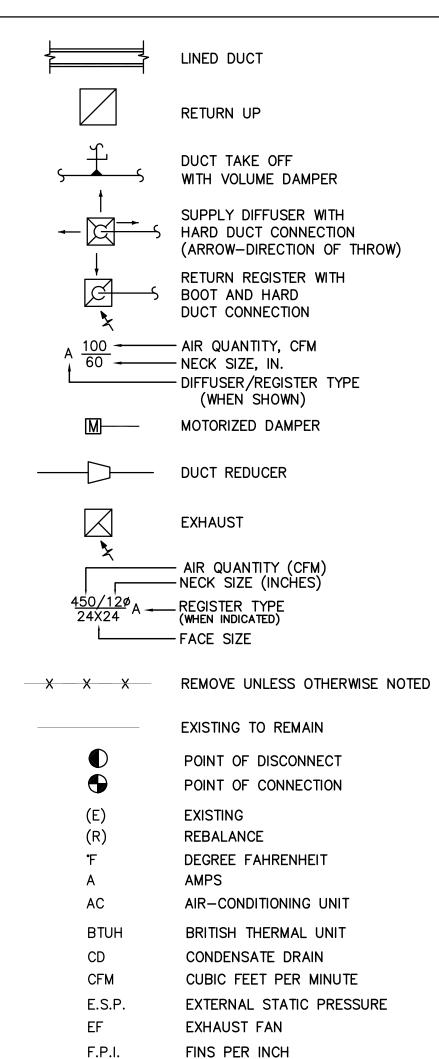


1. USE MOUNTING DETAIL WHERE SPACE PERMITS. WHERE SPACE DOES NOT PERMIT FOLLOW DETAIL 2/M3.1.

2. SIMILAR FOR GYP BOARD, SPLINE CEILING.



# LEGEND AND ABBREVIATIONS



FULL LOAD AMPS

THOUSAND BTUH

OUTSIDE AIR

MINIMUM CIRCUIT AMPS

RUNNING LOAD AMPS

REVOLUTION PER MINUTE

VOLTAGE/PHASE/HERTZ

POUNDS

TYPICAL

HORSEPOWER OR HEAT PUMP

FLA

HP

IN. OR

LBS

MCA

O.A.

RLA

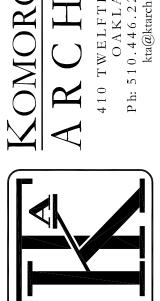
RPM

TYP.

V/ø/HZ

### GENERAL NOTES

- 1. ALL WORK SHALL BE IN ACCORDANCE WITH THE LATEST APPLICABLE LOCAL AND STATE CODES AND REGULATIONS.
- 2. CONTRACTOR SHALL OBTAIN AND PAY FOR ALL REQUIRED FEES, PERMITS AND INSPECTIONS.
- BEFORE SUBMISSION OF AN BID, THE CONTRACTOR SHALL PERFORM A FIELD SURVEY OF THE SITE CONDITIONS AND FEATURES. ANY SITE CONDITIONS, WHICH MAY CAUSE SIGNIFICANT DEVIATION FROM THE DESIGN DRAWINGS, SHALL BE BROUGHT TO THE ATTENTION OF ARCHITECT/ENGINEER OF RECORD FOR CLARIFICATION PRIOR TO SUBMISSION OF THE CONTRACTORS BID. IF APPLICABLE, VERIFY DIMENSIONS OF ALL OWNER-FURNISHED EQUIPMENT TO ENSURE PROPER COORDINATION WITH CONSTRUCTION OF THIS PROJECT. THE CONTRACTOR SHALL SUBMIT BID THAT INCLUDES ALL LABOR AND MATERIALS REQUIRED TO PROVIDE FOR COMPLETE AND SATISFACTORILY OPERATING SYSTEMS IN THE BID.
- 4. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE THE EXACT REQUIREMENTS GOVERNED BY ACTUAL JOB CONDITIONS. EXISTING INFORMATION SHOWN ON PLANS IS FROM ORIGINAL RECORD DRAWINGS AND CURSORY NONDESTRUCTIVE FIELD SURVEY. THE CONTRACTOR SHALL VERIFY AND ACCOUNT FOR ALL EXISTING CONDITIONS IN THE FIELD AFFECTING THE WORK.
- MECHANICAL CONTRACTOR SHALL BE COGNIZANT WITH BUILDING STRUCTURE AND CEILING SPACE. ALLOW FOR INSTALLATION OF EQUIPMENT PRIOR TO BID AND FROM PRICING AND ADDITIONAL OFFSETS OF DUCTS AND PIPING THAT ARE NOT SHOWN ON DRAWING. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING AND PROVIDING ALL CEILING ACCESS, PATCHING AND REPAIR REQUIRED IN THE IMMEDIATE AREA OF THE WORK AND ANY ACCESS OUTSIDE THE IMMEDIATE AREA OF THE WORK REQUIRED TO PROVIDE COMPLETE AND PROPERLY FUNCTIONING SYSTEMS.
- ABSOLUTE ACCURACY OF DRAWINGS IS NOT GUARANTEED. REPORT DISCREPANCIES OR INCONSISTENCIES BETWEEN THE SPECIFIED DESIGN AND EXISTING CONDITIONS IN THE FIELD TO THE ARCHITECT/ENGINEER FOR CLARIFICATION AND DIRECTION PRIOR TO BID AND COMMENCEMENT OF THE WORK.
- ALL DUCT DIMENSIONS ARE SHOWN IN INCHES. ALL DIMENSIONS ARE CLEAR INSIDE SIZES. FIRST FIGURE OF DUCT SIZE INDICATES DIMENSION OF FACE SHOWN OR INDICATED.
- 8. ALL DUCTWORK AND PIPING SHOWN ON PLANS ARE DIAGRAMMATIC AND SHALL NOT BE SCALED TO DETERMINE EXACT LOCATION.
- 9. ADVISE OWNER'S REPRESENTATIVE IN WRITING IN EVENT OF DISCREPANCIES BETWEEN CONTRACT DOCUMENTS PRIOR TO BID.
- CONTRACTOR SHALL ASSUME SOLE RESPONSIBILITY FOR SAFETY OF ALL PERSONS ON OR ABOUT THE CONSTRUCTION SITE, IN ACCORDANCE WITH APPLICABLE LAWS AND CODES. GUARD ALL HAZARDS IN ACCORDANCE WITH THE SAFETY PROVISIONS OF THE LATEST MANUAL OF ACCIDENT PREVENTION PUBLISHED BY THE ASSOCIATED GENERAL CONTRACTIONS OF AMERICA AND OSHA.
- 11. DUCTWORK SHALL BE SHEET METAL GALVANIZED STEEL. FABRICATE, INSTALL AND SUPPORT DUCTWORK AS PER LATEST SMACNA STANDARD.
- 12. MECHANICAL DRAWING IS DIAGRAMMATIC. CONTRACTOR SHALL DETERMINE FINAL PIPING AND DUCT ROUTING PER ACTUAL OR EXISTING FIELD/CEILING CONDITION.
- 13. SHEET METAL DUCT JOINTS SHALL BE AIRTIGHT AND SEALED IN ACCORDANCE WITH CEC BUILDING STANDARD REGULATION, TITLE 24, AND CMC SECTION 1102(C). DUCTWORK SHALL BE INSULATED PER LATEST EDITION OF CEC TITLE 24 (R-8).
- 14. INSTALL WALL-MOUNTED ROOM THERMOSTATS 4-FEET ABOVE FINISHED FLOOR UNLESS DIRECTED OTHERWISE COORDINATE INSTALLATION LOCATION AND HEIGHT PRIOR TO THERMOSTAT ROUGH-IN.
- 15. COORDINATE WORK WITH ALL OTHER TRADES.
- PROTECT THE PUBLIC FROM INJURY DURING PROGRESS OF WORK BY POSTING WARNING SIGNS, GUARD LIGHTS AND BARRICADES. ALL DIMENSIONS ARE IN INCHES UNLESS NOTED OTHERWISE.
- 17. FURNISH AND INSTALL ALL MATERIALS EQUIPMENT AND LABOR AS SHOWN AND AS NECESSARY FOR
- 18. PERFORM TEST AND AIR BALANCING OF HVAC SYSTEM. SUBMIT A CERTIFIED TEST AND AIR BALANCE REPORT TO ENGINEER FOR REVIEW AND APPROVAL.
- DO NOT CUT ANY STRUCTURAL MEMBERS WITHOUT THE REVIEW AND APPROVAL OF THE STRUCTURAL ENGINEER.
- 20. WHERE EXISTING PIPES, CONDUITS AND/OR DUCTS WHICH ARE TO REMAIN PREVENT INSTALLATION OF NEW WORK, RELOCATE, OR ARRANGE FOR RELOCATION OF THESE ITEMS TO FACILITATE NEW
- 21. ALL MATERIALS AND WORKMANSHIP ARE SUBJECT TO REVIEW AND APPROVAL BY THE ARCHITECT/ENGINEER. ANY PORTION OF THE WORK FOUND TO BE DEFECTIVE SHALL BE REPLACED BY THE CONTRACTOR AS PART OF THIS CONTRACT AT NO ADDITIONAL COST TO THE OWNER.
- 22. ANY PIPING OFFSETS REQUIRED AS RESULT OF EXISTING JOB CONDITIONS, OR COORDINATION WITH OTHER TRADES, SHALL BE PROVIDED BY THE CONTRACTOR AT NO ADDITIONAL COST TO OWNER AND IS SUBJECT TO REVIEW BY THE ARCHITECT/ENGINEER.
- 23. FOR PIPES PENETRATING WALLS, PROVIDE ESCUTCHEONS FOR FINISH COVER OF EXPOSED PENETRATIONS.



EGEND, GENER, A A N N C 400H B H MEC! SYME



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CONSTRUCTION SE
REVISIONS

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M001

2018-1015

Plancheck - The NRCC-MCH-01-E compliance document is not considered a completed document and is not to be accepted by the building department unless the correct boxes are checked.

Inspector - Before occupancy permit is granted all newly installed process systems must be tested to ensure proper operations.

Units Outdoor Air Unitary

1 🗸

Verification (E)AC-2 (E)AC-3

Add Row Remove Las

Equipment Requiring Testing or

**Test Description** 

Enforcement Agency:

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance

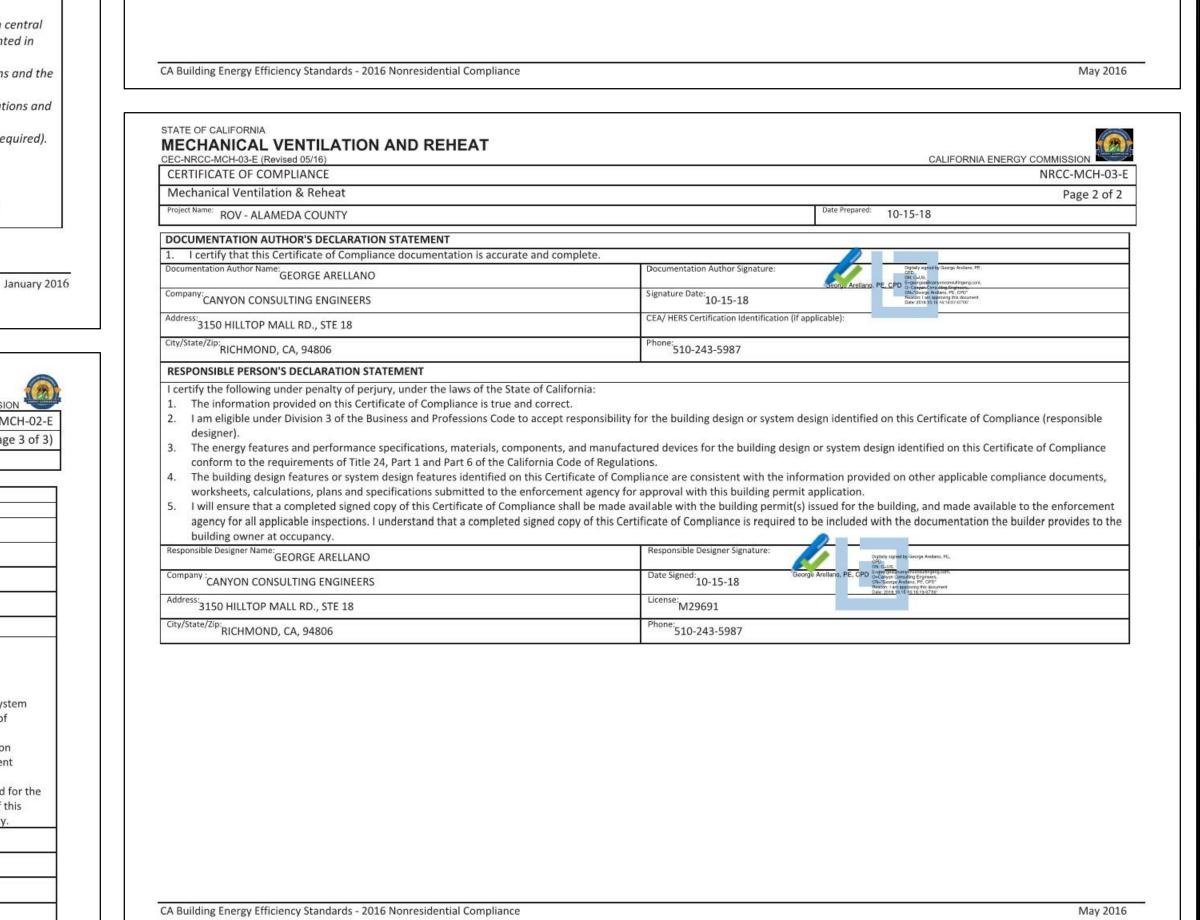
CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance

MECHANICAL SYSTEMS CEC-NRCC-MCH-01-E (Revised 01/16)	CALIFORNIA ENERGY COMMISSION
CERTIFICATE OF COMPLIANCE	NRCC-MCH-01
Mechanical Systems	Page 3 of 3
Project Name: ROV - ALAMEDA COUNTY	Date Prepared: 10-15-18
DOCUMENTATION AUTHOR'S DECLARATION STATEMENT	
<ol> <li>I certify that this Certificate of Compliance documentation is accurate</li> </ol>	e and complete.  Disjuly-injury by George Archino, PE.  D
Documentation Author Name: GEORGE ARELLANO	George Arellano, PE, CPD George and Control of Control
Company: CANYON CONSULTING ENGINEERS	Signature Date: 10-15-18
Address: 3150 HILLTOP MALL RD., STE 18	CEA/ HERS Certification Identification (if applicable):
City/State/Zip:RICHMOND, CA, 94806	Phone: 510-243-5987
RESPONSIBLE PERSON'S DECLARATION STATEMENT	<b>'</b>
<ul> <li>designer).</li> <li>The energy features and performance specifications, materials, composition to the requirements of Title 24, Part 1 and Part 6 of the Caling The building design features or system design features identified on worksheets, calculations, plans and specifications submitted to the edge.</li> <li>I will ensure that a completed signed copy of this Certificate of Composition.</li> </ul>	nd correct. o accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible ponents, and manufactured devices for the building design or system design identified on this Certificate of Compliance
building owner at occupancy.	
building owner at occupancy.  Responsible Designer Name: GEORGE ARELLANO	Responsible Designer Signature:  Coglably signal by George Avalues, PC. COGLAB. COM. C. Lis.
building owner at occupancy.  Responsible Designer Name: GEORGE ARELLANO	Date Signed:  10-15-18  Coorge Arelano, PE. CPD Cooper September 10-15-18  Coorge Arelano, PE. CPD Cooper September 10-15-18  Coorge Arelano, PE. CPD Cooper September 10-15-18  Coorge Arelano, PE. CPD Cooper 10-15-18  Coorge Arelano Coorge 10-15-18  Coorge Arelano Coorge 10-15-18  Coorge 10-15-
building owner at occupancy.	Date Signed:  One

CEC-NRCC-MCH-02-E (Revised 01/16)	QUIREMENTS		CALIFORNIA ENERG	EV COMMISSION
CERTIFICATE OF COMPLIANCE			GALIFORNIA ENERG	NRCC-MCH-02-E
HVAC Dry System Requirements				(Page 1 of 3)
Project Name: ROV - ALAMEDA COUNTY			Date Prepared: 10-15-18	
A. Equipment Tags and System Descrip		(E) AC-2/(E) AC-3		1
MANDATORY MEASURES	T-24 Sections		Requirements in the C	ontract Documents <sup>c</sup>
Heating Equipment Efficiency <sup>3</sup> Cooling Equipment Efficiency <sup>3</sup>	110.1 or 110.2(a)	2.2 COP 10.1 EER		
HVAC or Heat Pump Thermostats	110.1 or 110.2(a) 110.2(b), 110.2(c)	N/A		
Furnace Standby Loss Control	110.2(d)	N/A		
Low Leakage AHUs	110.2(f)	N/A		
Ventilation <sup>4</sup>	120.1(b)	(E)		
Demand Control Ventilation <sup>5</sup> Occupant Sensor Ventilation Control <sup>6</sup>	120.1(c)4 120.1(c)5, 120.2(e)3	N/A N/A		
Shutoff and Reset Controls <sup>7</sup>	120.2(e)	N/A		
Outdoor Air and Exhaust Damper Control	120.2(f)	N/A		
Isolation Zones	120.2(g)	N/A		
Automatic Demand Shed Controls	120.2(h)	N/A		
Economizer FDD	120.2(i)	N/A		-
Duct Insulation	120.4	(E)		
PRESCRIPTIVE MEASURES		T	T	
Equipment is sized in conformance with 140.4 (a & b)	140.4(a & b)	● Yes ○ No	○ Yes ○ No	○ Yes ○ No
Supply Fan Pressure Control	140.4(c)	N/A		
Simultaneous Heat/Cool <sup>8</sup>	140.4(d)	N/A		
Economizer	140.4(e)	N/A		
Heat and Cool Air Supply Reset	140.4(f)	N/A		
Electric Resistance Heating <sup>9</sup>	140.4(g)	N/A		
Duct Leakage Sealing and Testing. <sup>10</sup>	140.4(I)	N/A	l .	
<ol> <li>If one or more spaces has demand consequence of operation.</li> <li>If one or more space has occupant sent the sequence of operation</li> <li>If the system is DDC identify the sequence for all systems identify the specification.</li> <li>Identify where the heating, cooling and specification of the zone controls. Prof. Enter N/A if there is no electric heating.</li> <li>If duct leakage sealing and testing is a specification.</li> </ol>	nsor ventilation control ide ences for the system start/ ion for the thermostats and nd deadband airflows are s ovide a MCH-03-E complian ng. If the system has electri required, a MCH-04-A com	entify where it is specific stop, optimal start, set of time clocks (if applica scheduled for this syste ance document. ic heating indicate whice	ied including the senso tback (if required) and able). em. Include a referenc ch exception to 140.4(	or specifications and I setup (if required). Se to the
STATE OF CALIFORNIA HVAC SYSTEM REQUIREMENT CEC-NRCC-MCH-02-E (Revised 01/16) CERTIFICATE OF COMPLIANCE HVAC Wet System Requirements Project Name: ROV - ALAMEDA COUNTY	S		CALIFORNIA ENER	GY COMMISSION  NRCC-MCH-02-E  (Page 3 of 3)
KOV - ALAMEDA COUNTY			10-15-18	
DOCUMENTATION AUTHOR'S DECLARATION ST				
I certify that this Certificate of Compliance     Documentation Author Name: CEORGE ADDITIONAL		nd complete. cumentation Author Signature:	Cignally signed to Die Galda,	ly George Andone.
GEORGE ARELLANO	190000	990. USA - 10 (1948-1100 Hasa 1840-1107-1104) - 1661-1661	George urelane, PE, CPD Superposition CH** CH**Object And States Large Market Large	on contracting and contracting
COMPANY: CANYON CONSULTING ENGINEERS	Sig	nature Date: 10-15-18	OR CHANGE	1000 (100 (100 (100 (100 (100 (100 (100
Address: 3150 HILLTOP MALL RD., STE 18	CEA	A/ HERS Certification Identificati	on (if applicable):	
City/State/Zip: RICHMOND, CA, 94806	Pho	one: 510-243-5987		
RESPONSIBLE PERSON'S DECLARATION STATES	MENT			

							CALIFORNIA	ENERGY COMM		STATE OF CALIFORNIA HVAC DRY & WET SYSTEM REC CEC-NRCC-MCH-02-E (Revised 01/16)	UIREMENTS		CALIFORNIA ENER	
								35337	C-MCH-01-E	CERTIFICATE OF COMPLIANCE  HVAC Dry System Requirements				NRCC-MCH-02- (Page 1 of 3
					Date	Prepared: 10-15	-18		Page 1 of 3	Project Name: ROV - ALAMEDA COUNTY		1.1	Date Prepared: 10-15-18	(Page 1 0)
						A1532-47355	2002		0				0.75.4 0.75.5 0.75.70	
		eck box if w								A. Equipment Tags and System Descript		(E) AC-2/(E) AC-3		ļ
CONTRACTOR STATE	See The second of the second the second	dards complia d onto the buil	State of the second	fer to the 201	l6 Nonresiden	tial Manual				MANDATORY MEASURES	T-24 Sections	+	equirements in the C I	Contract Documents
	tle									Heating Equipment Efficiency <sup>3</sup> Cooling Equipment Efficiency <sup>3</sup>	110.1 or 110.2(a) 110.1 or 110.2(a)	2.2 COP 10.1 EER		+
		mpliance, Dec		•						HVAC or Heat Pump Thermostats	110.2(b), 110.2(c)	N/A		
Marie Control 1980		mpliance, Req								Furnace Standby Loss Control	110.2(d)	N/A		-
		Equipment Su								Low Leakage AHUs Ventilation⁴	110.2(f) 120.1(b)	N/A (E)		+
ot 21		Equipment Su	5.9	quired for all s	submittals wit	th chilled wate	er, hot water o	or condenser v	vater	Demand Control Ventilation <sup>5</sup>	120.1(c)4	N/A		
S		tional on plans tilation and Re		red for all sub	mittals with r	multinle zone	heating and co	noling systems	: It is	Occupant Sensor Ventilation Control <sup>6</sup>	120.1(c)5, 120.2(e)3	N/A		
O	otional on plan	ıs.			(1)			8-1	05 575,05	Shutoff and Reset Controls' Outdoor Air and Exhaust Damper Control	120.2(e) 120.2(f)	N/A N/A		+
		otion of Fans. I			( * · · · · · · · · · · · · · · · · · ·	P - 1.1				Isolation Zones	120.2(g)	N/A		
2 of 2) Po	ower Consump	otion of Fans, D	eciaration. R	equired on pi	ians where ap	plicable				Automatic Demand Shed Controls	120.2(h)	N/A		
MS (check	box for requ	ired complia	nce docume	ents)						Economizer FDD  Duct Insulation	120.2(i) 120.4	N/A (E)		+
•			V 100000 1 25-11-1 20000 4-1 11 11-1							PRESCRIPTIVE MEASURES				*
a 97 N	0 W 100 100 W	920 97 9		10 00 100		201 101 21	NO 80 200	12 WW. 13		Equipment is sized in conformance with	140.4(a & b)	● Yes ○ No	○ Yes ○ No	O Yes O No
		ans. Listed belov tance test. All ec								140.4 (a & b)	12 453	N/A	0 100 0 110	0 100 0 110
										Supply Fan Pressure Control Simultaneous Heat/Cool <sup>8</sup>	140.4(c) 140.4(d)	N/A		
onsible to ei	ther conduct the	e acceptance te	st themselves o	or have a qualif	fied entity run t	the test for then	n. If more than	one person has	responsibility	Economizer	140.4(e)	N/A		
		Acceptance app							2011 16 16 * 00 (B. 11 12 10 10 10 10 10 10 10 10 10 10 10 10 10	Heat and Cool Air Supply Reset	140.4(f)	N/A		
ment is not c	onsidered a com	pleted docume	nt and is not to	be accepted b	by the building o	department unl	less the correct	boxes are chec	ked.	Electric Resistance Heating <sup>9</sup> Duct Leakage Sealing and Testing. <sup>10</sup>	140.4(g) 140.4(l)	N/A N/A		+
		ms must be test					Francisco Company of the		E verience appearance	but teakage searing and resumg.	210.1(1)	14/74		
MCH-02-A	MCH-03-A	MCH-04-A	MCH-05-A		MCH-07-A	MCH-08-A	MCH-09-A	MCH-10-A	MCH-11-A	Notes:	10) and system description	on /o a Single Dust VA	V roboat) as appropri	iata Multipla units
		Air		Demand Controlled			Supply	Hydronic System	Automatic	Provide equipment tags (e.g. AHU 1 to with common requirements can be gro		on (e.g. Single Duct VA	v reneat) as appropri	iate. Multiple units
		Distribution	Economizer	Ventilation	Supply Fan	Valve	Water	Variable	Demand	2. Provide references to plans (i.e. Drawin		2511 <b>5</b> 01 <b>5</b> 2		
Outdoor Air	Unitary	Ducts	Controls	(DCV)	VAV		Temp. Reset	Flow Control	Shed Control	paragraphs) where each requirement in 3. The referenced plans and specifications	로이 마이트 열 시간 이 아픈 한 시간을 입니다 이 것 같아 있다면 하지 않는 것이 되었다고 있다. 그 네트리아		이 그 전기가 하는데 얼마나가 하느 이렇게 하는데 얼마가 되어 있다.	
<b>✓</b>	Ш	<b>✓</b>	Ш							capacity, Title 24 minimum efficiency r	equirements, and actual i	ated equipment efficie	ncies. Where multipl	le efficiency
<b>✓</b>		<b>✓</b>								requirements are applicable (e.g. full- of equipment is required to be listed per liberal		Where appliance star	ndards apply (110.1),	identify where
										4. Identify where the ventilation requirem		each central HVAC sys	tem. Include referen	nces to both central
onresidentia	Compliance							J	anuary 2016	unit schedules and sequences of opera				
	200 (0 0 000								5/200 A 27 00	the plans and specifications. Multiple 2 5. If one or more spaces has demand con				
										sequence of operation.	. onea vermanon mentry	Where it is specified.	relating the sensor s	pecifications and the
									1	6. If one or more space has occupant sens	or ventilation control ide	ntify where it is specifi	ed including the sens	or specifications an
									Contract of the Contract of th	the sequence of operation 7. If the system is DDC identify the sequen	nces for the system start/	stop, optimal start, set	back (if required) and	d setup (if required)
							CALIFORNIA	ENERGY COMM	ISSION	For all systems identify the specificatio				
								NRC	C-MCH-01-E	8. Identify where the heating, cooling and		78	m. Include a referenc	ce to the
					Loss	December		Į.	Page 3 of 3	specification of the zone controls. Prov 9. Enter N/A if there is no electric heating			h exception to 140.4	l(g) applies.
					Date	Prepared: 10-15	-18			10. If duct leakage sealing and testing is re				
TEMENT						0								
	is accurate and	l complete.	In	A -th 61t		CP0	signed by George Arehero, PE,			8				
				ion Author Signatur	re: George	Arellano, PE, CPD G-con- G-Con- CN-730	ea@vareancontulingeng.com, on Consulting Engineers, orge Archano, PE, CPD* Lass Approvings bis decument			CA Building Energy Efficiency Standards - 2016 Non	residential Compliance			January
				<sup>te:</sup> 10-15-18		Date: 21	18.10.18 18.59 23-07 00							
			CEA/ HERS C	ertification Identific	cation (if applicable	);								
			Phone: 510-	243-5987										
NT										STATE OF CALIFORNIA HVAC SYSTEM REQUIREMENTS				( )
	of the State of one is true and co									CEC-NRCC-MCH-02-E (Revised 01/16)	22)		CALIFORNIA ENER	
100		ept responsibilit	y for the build	ing design or sy	ystem design id	lentified on this	Certificate of C	ompliance (res	ponsible	CERTIFICATE OF COMPLIANCE  HVAC Wet System Requirements				NRCC-MCH-02- (Page 3 of 3
cations, mat	erials, compone	nts, and manufa	actured devices	s for the buildin	ng design or sys	stem design ide	ntified on this C	ertificate of Co	mpliance	Project Name: ROV - ALAMEDA COUNTY		[3	Date Prepared: 10-15-18	(rage 5 or
t 1 and Part 6	of the Californi	ia Code of Regul	ations.		T. 1774 M.	823			*	NOV PLANTED/YCCONY			10 13 10	
		Certificate of Co cement agency !	건지 아빠를 열었다면 하게 하게 하게 살아 있다면 모양된다.				ther applicable	compliance do	cuments,	DOCUMENTATION AUTHOR'S DECLARATION STA		Manager and Lands		-
		ce shall be made								I certify that this Certificate of Compliance d     Documentation Author Name: GEORGE ARELLANO		umentation Author Signature:	Comply op est	Stay George Antiana.
stand that a	ompieted signe	ed copy of this C	erunicate of Co	impliance is req	quired to be inc	luaed with the	uocumentation	the builder pro	ovides to the	Company: CANYON CONSULTING ENGINEERS	Sign	nature Date: 10-15-18	Georgia Arellano, PE, CPD Charges Central Control of Charges	region, PC, CPC* appropriate for decurrent 16 16 90 16-0700
				Designer Signature	:	Digitally signed CPD.	by George Arwitano, Pf.			THE PERSON AND A PROPERTY OF THE SECURITY OF T		10-15-18 / HERS Certification Identificati	on (if applicable):	
			Date Signed:	10-15-18	George Are	ellang, PE, CPD Supergraphs Guitaryon Can Chilliseage A Recein Lant a	enting Engineer, relians, PE, CPD' perceing this document is is 550-5700'			Address: 3150 HILLTOP MALL RD., STE 18	and the second	8	82 VIII W	
			License: M2			Dote: 2018.10.1	15 (15-07-07)			City/State/Zip: RICHMOND, CA, 94806	File	ne: 510-243-5987		
			Phone: 510-							RESPONSIBLE PERSON'S DECLARATION STATEM	Accepts 6	. A. Henrick		
			510-	243-5987					8	I certify the following under penalty of perjury, u  1. The information provided on this Certificate				
										<ol><li>I am eligible under Division 3 of the Busines.</li></ol>	and Professions Code to ac		e building design or sys	stem design
										identified on this Certificate of Compliance ( 3. The energy features and performance speci-		ents, and manufactured	devices for the building	g design or system
										design identified on this Certificate of Comp				
										Regulations. 4. The building design features or system design	n features identified on this	Certificate of Compliano	e are consistent with th	he information
										provided on other applicable compliance do	cuments, worksheets, calcu			
										agency for approval with this building permi 5. I will ensure that a completed signed copy o		nce shall be made availat	le with the building per	rmit(s) issued for the
										building, and made available to the enforce	ment agency for all applicab	le inspections. I understa	nd that a completed sig	gned copy of this
										Certificate of Compliance is required to be in Responsible Designer Name: GEORGE ARELLANO		stion the builder provide: sponsible Designer Signature:	to the building owner	at occupancy.
										and the second s		te Signed: 10-15-18	Digithly righted for Biology, on to Georgian Committee of the Committee o	
130525	250 38									Company: CANYON CONSULTING ENGINEERS			Picorga mulano, PE, GPO Semicrosocionesconos Cardos Consulto Cres Chr. George a water. Ex. Femilia I an approving the Date. Port. Coll. 19(0.25)	C. carbot list document Prodriet
onresidentia	Compliance							J	anuary 2016	Address: 3150 HILLTOP MALL RD., STE 18		ense: M29691		
										City/State/Zip: RICHMOND, CA, 94806	Pho	one: 510-243-5987		
	· ·													

STATE OF CALIFORNIA YSTEM REQUIREMENTS **MECHANICAL VENTILATION AND REHEAT** CALIFORNIA ENERGY COMMISSION NRCC-MCH-02-E CERTIFICATE OF COMPLIANCE NRCC-MCH-03-E Mechanical Ventilation & Reheat (Page 1 of 3) Page 1 of 2 Date Prepared: 10-15-18 ROV - ALAMEDA COUNTY 10-15-18 A. Mechanical Ventilation and Reheat ystem Description1- Dry Systems (E) AC-2/(E) AC-3 n lieu of this compliance document, the required outdoor ventilation rates and airflows may be shown on the plans or the calculations can be presented in a spreadsheet. Mechanical Ventilation and Reference to the Requirements in the Contract Documents<sup>2</sup> T-24 Sections Reheat worksheet available on the Energy Commission's website at: http://www.energy.ca.gov/title24/2016standards/. 110.1 or 110.2(a) 2.2 COP Note: In all of the calculations that compare a supply quantity to the REQ'D V.A. quantity, the actual percentage of outdoor air in the supply is ignored. Areas in buildings for which natural ventilation is used should be clearly designated. Specifications must require that building operating instructions include explanations of the natural ventilation .10.1 or 110.2(a) 10.1 EER 110.2(b), 110.2(c) N/A 110.2(d) N/A ACTUAL DESIGN (FROM EQUIPMENT VAV REHEATED VAV DEADBAND OCCUPANCY BASIS SCHEDULES, ETC) PRIMARY AIR CFM PRIMARY AIR CFM 110.2(f) N/A 120.1(b) N/A 120.1(c)5, 120.2(e)3 N/A 20.2(e) N/A amper Control 120.2(f) N/A N/A ontrols 120.2(h) N/A N/A 120.2(i) 120.4 (E) AC-3 | 3,350 | 3,350 | 3,350 | No | 0 | 3,000 | 0.15 | 450 | 34 | 15 rmance with 140.4(a & b) Yes \( \cap \) No ○ Yes ○ No O Yes O No Add Row Remove Last 140.4(c) N/A





ANIC ШО



CONSTRUCTION SET REVISIONS

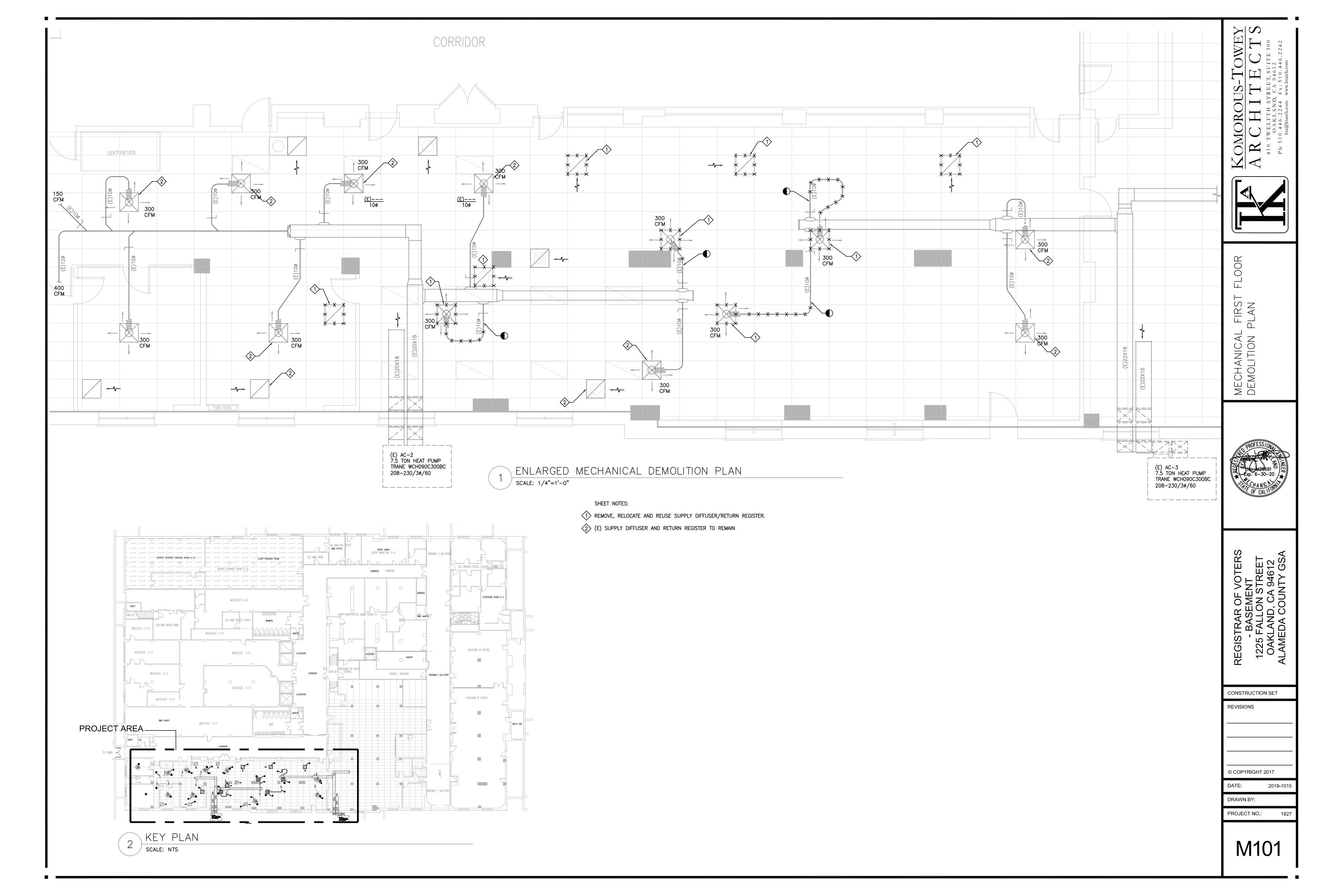
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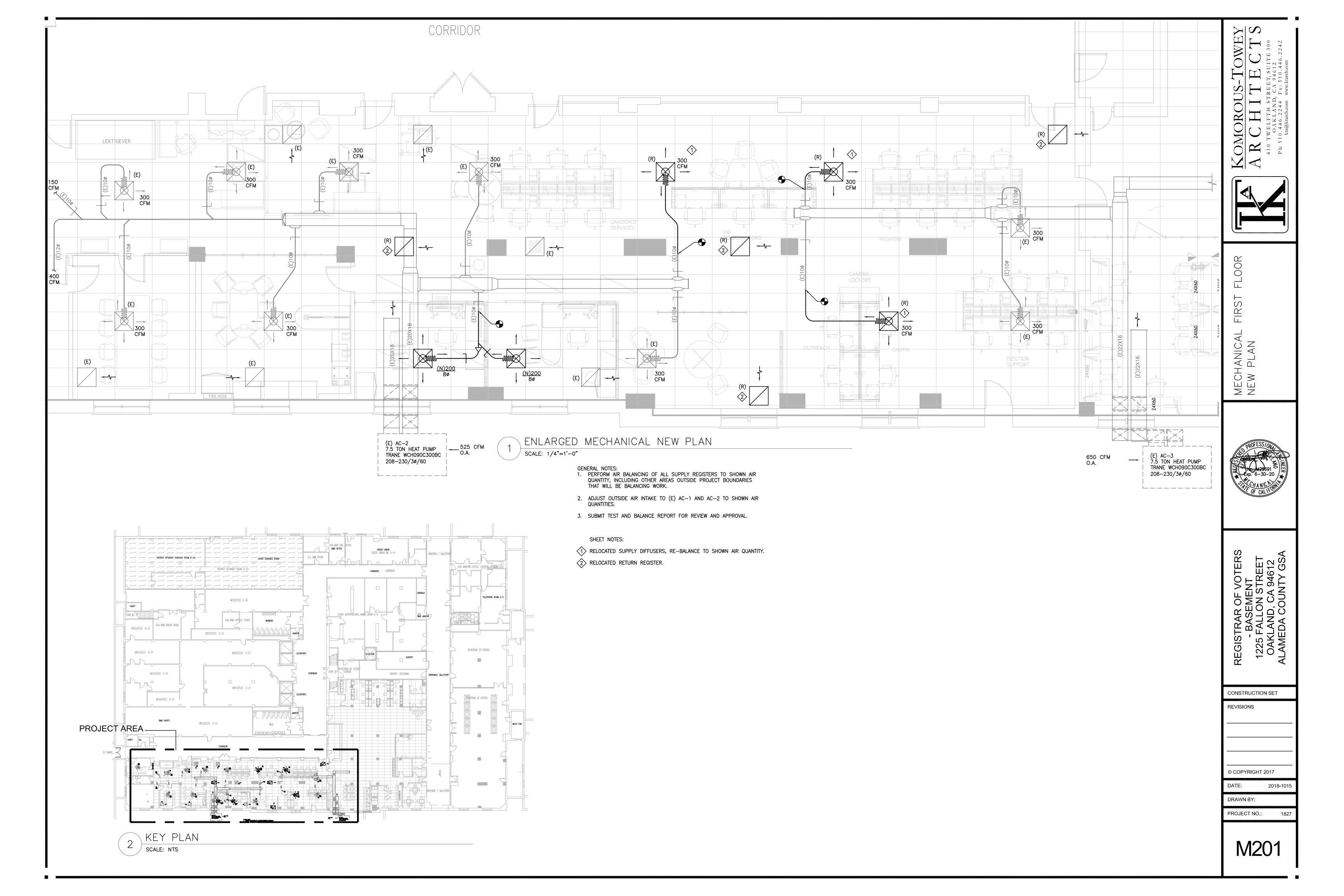
2018-1015

DRAWN BY:

DATE:

PROJECT NO.:





ABBREVIA	TIONS	GENERAL NOTES	
AC	MTG. HT. = MOUNTING HEIGHT N.I.C. = NOT IN CONTRACT N.T.S. = NOT TO SCALE P = POLE PB = PULL BOX PH = PHASE PNL = PANEL SAD = SEE ARCHITECTURAL DRAWING SCD = SEE CML DRAWING RSC = RIGID STEEL CONDUIT SW = SWITCH SWED = SWITCHBOARD U.O.N. = UNLESS OTHERWISE NOTES V = VOLTS W = WATTS - WIRE WP = WEATHERPROOF	GENERAL NOTES  1. General Coordination. Requirements a. Contractor shell comply with the most afringent requirements indicated ather by drawings or by the general rotes. b. Contractor shall visit the job sits, verify finds conditions, review construction documents out shall include at cont to construct the project in commons. comply with all the optication of the first the project in commons with these construction documents and opplicable codes. c. An electrical work included on the construction documents, as a minimum, shall comply with all the opplication provides of the licitate diffice of the NECE, local opplication ooks, and admirts hymnight printed them to extract the most expectation of the NeCE, local opplication ooks, and admirts hymnight printed the southern of the construction documents are the size conditions. The construction documents are the size conditions. The construction document are the size conditions. The construction in the construction document are the size conditions. The construction and conflicts in which gird in concernmenting work. c. Contractor shall bring to the observation of the construction document revisions due to such discrepancies and conflicts in which gird in concernmenting work. c. Contractor shall discrept the conflicts of the conflicts of the other operations of the construction document of the construction documents to determine the such provides of the provided of the system of the construction documents to the construction document of the construction documents of the construction documents of the construction documents of the construction documents to be constructed or construction of replica and provided to the construction documents to the construction documents to the construction of the cons	(E), (N) U.O.N
AC = ALTERNATING CURRENT  AFF = ABOVE FINISH FLOOR  AMPS = AMPERES  CB = CIRCUIT BREAKER  CKT OR cT = CIRCUIT  CU = COPPER  EMT = ELECTRICAL METALLIC TUBING  ES = ELECTRICAL SECTION OF  THIS CONTRACT.  FA = FIRE ALARM  FACP = FIRE ALARM CONTROL PANEL  HP = HORSE POWER  JB = JUNCTION BOX  KV = THOUSAND VOLTS  KVA = KILOVOLT AMPERES  KW = KILOWATT  MAX = MAXIMUM  MIN = MINIMUM  MLO = MAIN LUG ONLY  MS = MECHANICAL SECTION OF	MTG. HT. = MOUNTING HEIGHT  N.I.C. = NOT IN CONTRACT  N.T.S. = NOT TO SCALE  P = POLE  PB = PULL BOX  PH = PHASE  PNL = PANEL  SAD = SEE ARCHITECTURAL  DRAWING  SCD = SEE CIVIL DRAWING  RSC = RIGID STEEL CONDUIT  SW = SWITCH  SWBD = SWITCHBOARD  U.O.N. = UNLESS OTHERWISE  NOTED  V = VOLTS  W = WATTS - WIRE	1. General Coordination. Requirements a. Controcter shall careply with the most attragent requirements indicated atther by drawing or by the general content. b. Controcter shall visible the job elle, verify field conditions, review continuation documents and shall include and cost to controct the project in occordance with these construction documents and spillarible codes. c. All electrical work indicated and but controlled the project in occordance with these construction documents are an infimum, shall comply with all the applicable provisions of the letter deliver of the NECL, lect applicable codes. c. All electrical work indicated on rot on the construction documents, constitute as part of the controcter and shall be furnished without cost to the controct on experiments. c. Controcter shall being to the electricion of the entitled and conditions. The controcter and shall be furnished without cost to the controlled register of the work. c. Controcter shall obtain ond pay oil parmitted and included ball be next, free from defeated and guaranteed for a period of one year from the date of the find occeptions by the expert. Shall only appeals an exist within the yearchical period on controlled and subject to investigate and single one period on sone year from the date of the find occeptions by the expert. Shall only appeals making the problem without delitional cost to the occurrence. p. Notify the owner representable of least three (2) weeks prior to commencing with its experiment of the controlled occurrence. p. Notify the owner register on controlled and controlled and shall be required to the control occurrence of the controlled and the controlled occurrence of provider and controlled and shall be required to commencing with the owner, or controlled one of the controlled occurrence of provider and controlled and shall be provided and controlled to the controlled occurrence of provider and controlled to the controlled occurrence of controlled to the controlled occurrence of controlled to the controlled occur	$\bigoplus_{\Phi} \bigoplus_{\Phi} \bigoplus_{\sigma} \bigoplus_{\sigma$

# LEGEND

RECEPTACLES AND OUTLETS

RECEPTACLE, DUPLEX 20A, 3PG, 125V, +42" U.O.N. RECEPTACLE, DUPLEX 20A, 3PG, 125V, +18" U.O.N.

RECEPTACLE, DUPLEX WITH GFI, 20A, 3PG, 125V,+42" U.O.N.

RECEPTACLE, DOUBLE DUPLEX 20A, 3PG, 125V, +18" U.O.N.

RECEPTACLE, SINGLE \_\_A, \_PG, \_\_\_V, +\_\_" U.O.N.

DUAL CHANNEL STEEL POWER/COMM POLE, SIMILAR TO WIREMOLD #25DPT-4 SERIES WITH PROVISIONS FOR FURNITURE FEED. LENGTH AS REQUIRED.

# DETAIL/REFERENCE TAG

SHEET NOTES IDENTIFICATION TAG - SEE SHEET NOTES

MECHANICAL EQUIPMENT TAG

(N), (R) INDICATES EXISTING, NEW, OR RELOCATED

UNLESS OTHERWISE NOTED





GENERAL NOTES, LEGEND AND ABBREVIATIONS

REGISTRAR OF VOTERS
- BASEMENT
1225 FALLON STREET
OAKLAND, CA 94612
ALAMEDA COUNTY GSA

CONSTRUCTION SET

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DATE: 2018-1015

PROFESS 10MA PROFESS 10MA C . JAKOG FINE WAR NO E15401 EXP. 06-30-19

DRAWN BY: PROJECT NO.:

VOLT	AGE:	120/208V	/NI\D/	NEL:	1901	EP00	MAIN:	MLO	
PHAS	E:	3	(14)1-7-	NINEE.	GCA		BUSSING:	200A	
WIRE: 4		LOCATION:				TYPE:	NLAB		
AIC:		10K	ISOL	ATED GRO	UND BUS:	NO	MOUNTING:	SURFACE	
		LOAD	LOAD	WATTS		LOAD	LOAD		
CKT	BKR	DESCRIPTION	(VA)	Α	В	(VA)	DESCRIPTION	BKR	CKT
1	20A	WORK STATION	800	1600		800	WORK STATION	20A	2
3	20A	WORK STATION	1200		2400	1200	WORK STATION	20A	4
5	20A	WORK STATION	800	1600		800	WORK STATION	20A	6
7	20A	WORK STATION	1200		2400	1200	WORK STATION	20A	8
9	20A	WORK STATION	800	1700		900	SCANNER	20A	10
11	20A	WORK STATION	1200		2100	900	SCANNER	20A	12
13	20A	SCANNER	900	1800		900	SCANNER	20A	14
15	20A	SCANNER	900		1800	900	SCANNER	20A	16
17	20A	SPARE		0			SPARE	20A	18
19	20A	SPARE			0		SPARE	20A	20
21		SPACE		0			SPACE		22
23		SPACE			0		SPACE		24
25		SPACE		0			SPACE		26
27		SPACE			0		SPACE		28
29		SPACE		0			SPACE		30
	CONNEC	TED kVA PER PHASE	1	6.70	8.70				
			conn.	demand	service				
	DEMAND	FACTOR APPLICATIONS	load	factor	load				
			(kVA)	(%)	(kVA)				
	RECEPTA	ACLE (FIRST 10kVA)	10.0	100%	10.0	1	TOTAL CONNECTED LOAD:	15.4	kVA
	RECEPTA	ACLE (OVER 10kVA)	3.4	50%	1.7		SPARE CAPACITY:		kVA
	CONTINU	OUS LOADS	2.0	125%	2.5		TOTAL SERVICE LOAD:	14.2	kVA
	NON-CON	ITINUOUS LOADS	0.0	100%	0.0		TOTAL SERVICE:	39.4	Amps

VOLTAGE:		120/208V					MAIN:	MLO	
PHASE: WIRE:		3	P	ANEL:	(N)	A-A	BUSSING:	225A	
		4		LOCATION:	OPEN OFFICE		TYPE:	NLAB	AB
AIC:		10K	ISOI	LATED GRO	UND BUS:	NO	MOUNTING:	SURFACE	=
		LOAD	LOAD	WATTS		LOAD	LOAD		
СКТ	BKR	DESCRIPTION	(VA)	A	В	(VA)	DESCRIPTION	BKR	CK
1	20A	OFFICE	800	1600		800	OPEN OFF	20A	2
3	20A	OFFICE	800	1000	1600	800	OPEN OFF	20A	4
5	20A	OPEN OFFICE	1200	2400	1000	1200	OPEN OFF	20A	6
7	20A	OPEN OFFICE	1200		2400	1200	OPEN OFF	20A	8
9	20A	OPEN OFFICE	1200	2400		1200	OPEN OFF	20A	10
11	20A	OPEN OFFICE	1200		2400	1200	OPEN OFF	20A	12
13	20A	OPEN OFFICE	1200	2400		1200	OPEN OFF	20A	14
15	20A	ELECTRIC WALL	1200		2400	1200	OPEN OFF	20A	16
17	20A	ELECTRIC WALL	1200	2400		1200	SPARE	20A	18
19	20A	SPARE			0		SPARE	20A	20
21	20A	SPARE		0			SPARE	20A	22
23	20A	SPARE			0		SPARE	20A	24
25		SPACE		0			SPACE		26
27		SPACE			0		SPACE		28
29		SPACE		0			SPACE		30
	CONNEC	TED kVA PER PHASE	I	11.20	8.80				
			conn.	demand	service				
	DEMAND	FACTOR APPLICATIONS	load	factor	load				
			(kVA)	(%)	(kVA)				
	RECEPTA	ACLE (FIRST 10kVA)	10.0	100%	10.0		TOTAL CONNECTED LOAD:	20.0	kVA
	RECEPTA	ACLE (OVER 10kVA)	10.0	50%	5.0		SPARE CAPACITY:		kV₽
	CONTINU	OUS LOADS	0.0	125%	0.0		TOTAL SERVICE LOAD:	15.0	kV₽
	NON-CON	ITINUOUS LOADS	0.0	100%	0.0		TOTAL SERVICE:	41.6	Am

MOROUS-TOWE

CHITELY ET SOUTE 300
OAKLAND, CA 94612
10.446.2244 Fx: 510.446.2242
kta@ktarch.com www.ktarch.com



**EERS** TEL: (650) 994-4906 FAX: (650) 994-4964

ING ELECTRICAL ENGINEERS
sion Street
TEL: (6)

PANEL SCHEDULES

REGISTRAR OF VOTERS
- BASEMENT
1225 FALLON STREET
OAKLAND, CA 94612
ALAMEDA COUNTY GSA

CONSTRUCTION SET

REVISIONS

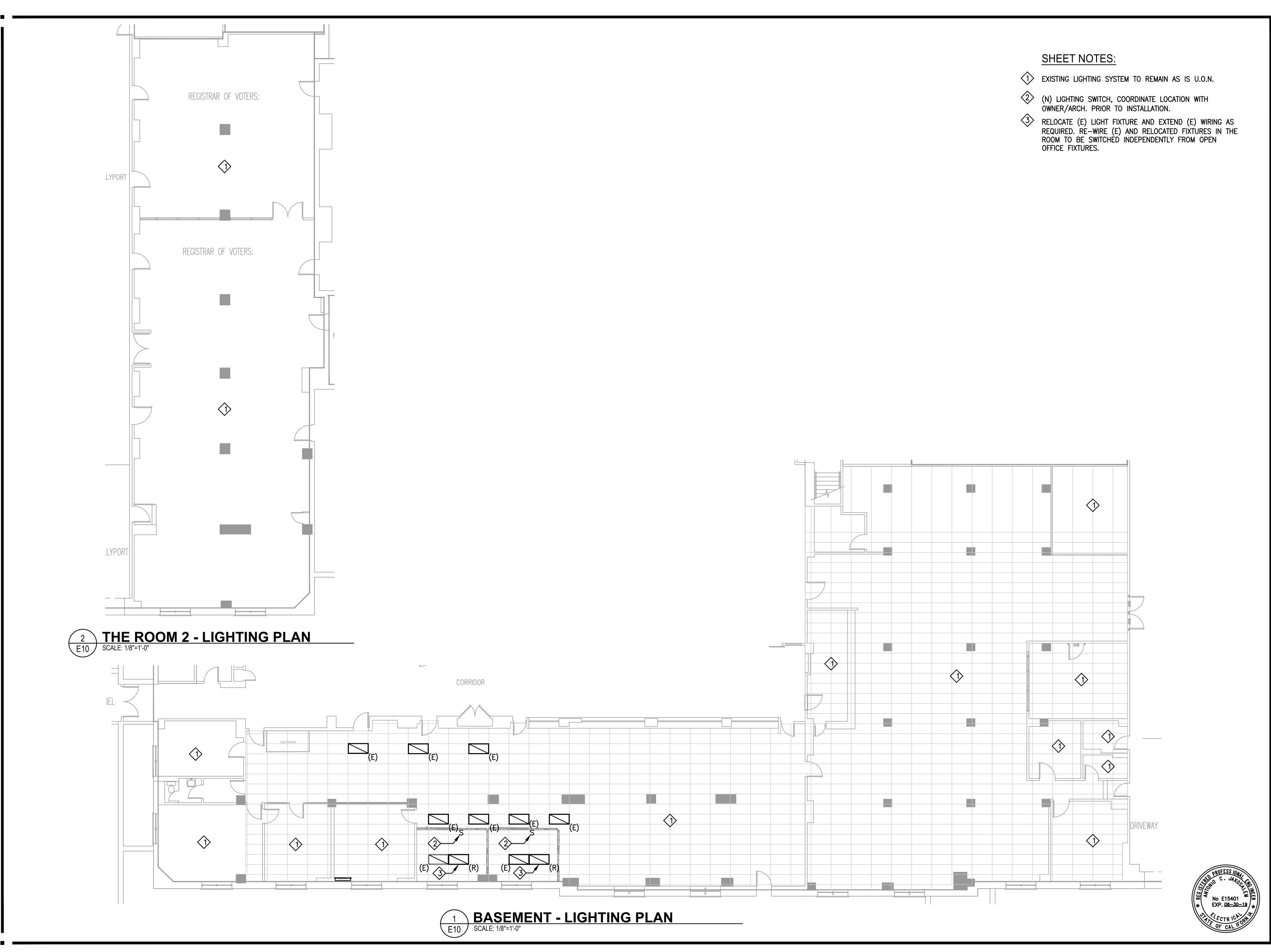
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PROJECT NO.:

E02





MOROUS-TOWE

CHITELT BOUTE 300

OAKLAND, CA 94612

510.446.2244 FX: 510.446.2242

**ENGINEERS**TEL: (650) 994-4906
FAX: (650) 994-4964

CONSULTING ELECTRICAL E

SHTING PLAN

REGISTRAR OF VOTERS
- BASEMENT
1225 FALLON STREET
OAKLAND, CA 94612

CONSTRUCTION SET

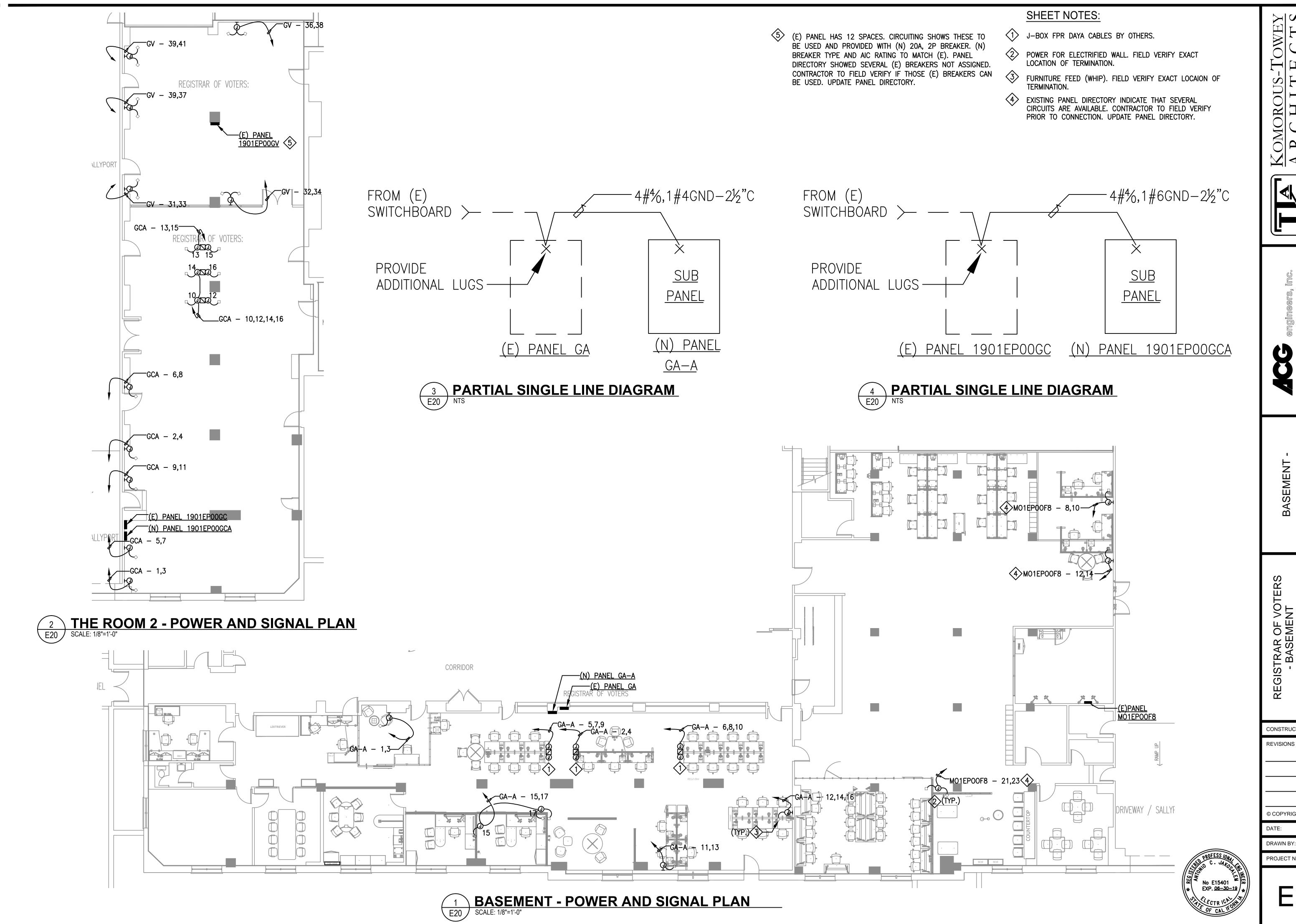
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DATE: 2018-DRAWN BY:

PROJECT NO.:

F10



BASEMENT -POWER AND SIGNAL PLAN

CONSTRUCTION SET

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