ADDENDUM No. 1

CITY OF MILPITAS
MILPITAS, CALIFORNIA
ENGINEERING DIVISION

CONTRACT DOCUMENTS AND SPECIFICATIONS
FOR

Temporary Fire Station No. 2
Tenant Improvement

PROJECT NO. 3447

Date: November 7, 2019

To: Plan Holders - Prospective Bidders of the subject project

From: Michael Silveira, P.E.
CIP Manager

Attached is Addendum #1 for the subject project. This addendum forms a part of the Contract Documents and modifies the Bid Documents as noted below. Acknowledgement of receipt of this addendum in the space provided in the Proposal is required. Failure to acknowledge an addendum may subject the bidder to disqualification.

At 2:00 p.m. on November 14, 2019, all bidders will submit their bids as set forth in bid documents and as amended by the following:

ADDENDUM No. 1

CLARIFICAITON

1. For information, enclosed is the sign-in sheets and agenda issued at pre-bid meeting on October 30, 2019 and November 4, 2019. Note that this is a Non-mandatory pre-bid meeting. See Exhibit A

2. Drawing Revision: On sheet A-101, key note 32.018, additional note for the detectable warning surface is included as following:

    a. Detectable warning surface shall be tactile warning surface SMC composite precast, part no. 2436NV8REP, manufactured by ADA Solution, or approve equal
    b. Color shall be yellow of state standard specification
    c. The Detectable warning surface shall be set in place in wet concrete.

3. Drawing Revision: Electrical panel schedule is included on E-003. See Exhibit B

4. Drawing Revision: Replace sheet E-102 entirely with the attached revised drawing as shown on Exhibit B. The modifications include, but not limited to:
    a. Provide power to the fire/smoke damper. See note #19
    b. Provide 30-amp circuit for portable generator battery charger and block heater. See note #21

5. For information: Enclosed are pictures of concrete wall penetrations that require the installation of firestopping system or/and Fire/smoke damper. See Exhibit C

RESPONSE TO RFI

6. Is there an abatement report or is the site clean?
   Response: There is no abatement report for the building. Per specification, section 02 00 00 Technical Provisions, E-05, " *Except for items or materials indicated to be reused, salvaged, reinstalled or otherwise indicated to remain, remove demolished material from project site and legally dispose of them in an EPA-approved landfill acceptable to authorities having jurisdiction. If the material suspected of containing hazardous material are encountered, the contractor shall have it test and disposal of at the appropriate disposal site."*

7. Sheet A-004, Supplemental Information, Finishes, item B calls out for Quiet Rock at Dorm Room, but the plans does not show any rooms. Please clarify if Quiet Rock is required.
   Response: Quietrock is not required.

8. What is the roof material to be patched for the exhauster hood?
   Response: Contractor shall repair/patch roof to match the existing roofing material for any new penetrations. Please refer to the Specification, Appendix B- As built drawing, sheet A-6 and S-1 for existing roofing material.

9. Will the entire interior be painted including the App Bay, General Purpose Room, Flex Space?
   Response: The contractor shall provide new painting to match existing wall color and texture for areas with alteration only. No new painting shall be provided for App Bay, General purpose room or flex space. However, detailed cleaning services shall be provided for the entire office building except the App Bay.

10. Are all the specifications on the drawings?
    Response: Majority of the product specifications are shown on the drawings. However, it is the contractor's responsibility to review all contract documents including plans and specifications and verify for any additional information.

11. On Sheet A101, item 32.017 has anyone checked the slope? Will this walkway need to be replaced along with the pavement?
    Reponses: Existing walkway shown on sheet A-101, note 32.017 will remain in place. The Contractor will only be responsible for removing and replacing a portion of the concrete to set new truncated dome as shown on note 32.018

END OF ADDENDUM No. 1

This addendum shall be signed by each bidder and kept for their files. Acknowledgement of receipt of this addendum in the space provided in the Proposal is required. Failure to acknowledge an addendum may subject the bidder to disqualification.

I,

_____

representing

_____

have carefully read this addendum, understand it, acknowledge receipt of this addendum and will comply its terms.

This addendum is issued by

Michael Silveira, P.E.
CIP Manager

11/7/19
Date

EXHIBIT A

SIGN IN SHEET & PRE-BID MEETING AGENDA

Temporary Fire Station No. 2
Tenant Improvement
Project No. 3447
Pre-bid Meeting
Wednesday October 30, 2019, 10:00 am

Name	Company	Contractors Lic. #	Phone	email
1) Ricardo Rodriguez	EVRA construction inc.	765231	Fax 467-1356 (415) 467-1336	EVRACON@sbcglobal.net
2) Bob Kagiyama	Swinerton Management & Consulting	—	—	rKagiyama@swinerton.com
3)				
4)				
5)				
6)				
7)				
8)				
9)				
10)				
11)				
12)				
13)				
14)				

Temporary Fire Station No. 2
Tenant Improvement
Project No. 3447
Pre-bid Meeting
Monday November 4, 2019, 2:00 pm

Name	Company	Contractors Lic. #	Phone	email
1) Ron Park	Ron Park Const	469524	408 2965926	office@RonParkConstruction.com
2)				
3)				
4)				
5)				
6)				
7)				
8)				
9)				
10)				
11)				
12)				
13)				
14)				

Temporary Fire Station No. 2
Tenant Improvement
Project No. 3447

October 30, 2019 at 10:00 am
November 4, 2019 at 2:00 pm

1. INTRODUCTIONS

Please see the sign-in sheet.

2. PROJECT OVERVIEW/SUMMARY OF WORK

- Summary of Work: This tenant improvement is intended to allow the City of Milpitas Fire Station No.2 crew to operate while the new fire station is being constructed. The renovation work will include, but not limited to:
    - An updated kitchen, including new residential type oven and range, ADA counter, sink, cabinet and new painting.
    - Installation of new accessible bathroom including ADA shower unit, lavatory sink, new toilet, related plumbing and painting.
    - Installation of 1 hr. rate doors and wall along the existing concrete panel wall to separate R-2 from S-2 occupancy types.
    - Installation of portable emergency generator with automatic transfer switch and docking station furnished by the CITY.
    - Modification of store front double door into single door with combo code lock.
    - General improvement throughout the building including demolition, mechanical, electrical, plumbing and painting.
    - Provide detail cleaning service for the entire building including, but not limited to, cleaning building interior and exterior walls, cleaning carpet, lighting, bathroom, ceiling, and furniture.
- This is lump sum bid
- City will award the contract based on the lowest responsible and responsive bid of Base Bid
- Within 21 days after the council award the contract, the contractor shall submit the following document to the City prior to issuing the notice to proceed.
    - Construction Schedule
    - Schedule of value
    - Schedule a pre-construction meeting
- The Permit and Field Copy plans will be provided after the City Council has award the project. The Contractor shall comply with all Building inspection related to this work.
- Plan Holders List, Plans and Specifications (one volume each) can be purchased from Prints Charles Reprographics, 1643 S Main St, Milpitas CA 95035, phone (408) 240-3330 www.printscharlesrepro.com or incoming@printscharlesrepro.com

3. Bid Date: November 14, 2019 at 2:00 PM

- Bidders wishing to submit bids prior to 12:00 p.m. on November 14, 2019 must contact **Lyhak Eam** at (408) 586-3349 to arrange drop off.
- Questions asked by Bidders at the Pre-Bid Conference not specifically addressed within the Contract Documents shall be answered in writing, and issued as an Addendum.
- Written requests for information from prospective bidder's shall be submitted to Lyhak Eam no later than **2 PM on November 6, 2019**

4. WORK HOURS

- Regular work hours: 7:00 am to 4:00 pm, Monday through Friday, except holidays.
- Contractors may be allowed to work from 7:00 a.m. to 7:00 p.m. Mondays through Fridays including weekends, except for holidays, if approved by the Engineer in writing. Any work necessary to be performed after regular working hours, or on Saturdays and Sundays or other holidays, shall be performed without additional expense to the City.
- City will provide inspection during regulars working hours from 7:30 a.m. to 3:30 p.m. Monday through Friday.
- Refer to the most current version of the City of Milpitas Noise Abatement Ordinance, Ord. 196.6 of the Municipal Code Section V-213. It shall be unlawful for any person to engage or permit to engage in construction of any building or related road or walkway, pool, or landscape improvement or in the construction operations related thereto including to operate, permit, use, or cause to operate any of the following at the Project site, other than between the hours of 7:00 a.m. to 7:00 p.m., Monday through Sunday, unless otherwise approved by the City.

5. SUBCONTRACTING

- General Contractor shall perform at least 15% of work.
- Contractor shall submit a subcontractor list with bid.

6. **INSURANCE REQUIREMENTS: See section 00 72 13, article 36 and 37**

- General Liability Insurance: $1.0 MILLION
- Auto Liability Insurance: $1.0 MILLION
- Workers Compensation Insurance

7. **Time of Contract**

- Time of Contract: 75 Calendar Days includes adverse weather days, maintenance period, procurement and installation of all equipment, structure and material
- Liquidated Damages: $ 2,000 per calendar day

8. COMMUNICATION: The following address should be used:

City of Milpitas,
Engineering Division
455 East Calaveras Blvd.
Milpitas, CA 95035
Attn: Lyhak Eam
(408) 586-3349
Leam@ci.milpitas.ca.gov

9. QUESTIONS

Refer questions to Project Manager in writing by email. Deadline for RFIs is November 6, 2019 at 2:00 PM

EXHIBIT B

DRAWINGS

BUS RATING: 200 120/208V, 3PH, 4W
MAIN: 200 MAIN LUG ONLY
SPACES: 42 FULL SIZE BOLT-ON CB SPACES
AIC RATING: (E) KAIC PANEL

(E) PANEL P3

SURFACE MOUNT, NEMA 1
LOCATION: UTILITY ROOM 112
WITH EQUIPMENT GND BUS

CKT %VD	DIST (FT)	NOTES	LOAD TYPE	CKT	DESCRIPTION	TRIP	POLES	COND SIZE	PHASE A	PHASE B	PHASE C	COND SIZE	POLES	TRIP	DESCRIPTION	CKT	LOAD TYPE	NOTES	DIST (FT)	CKT %VD
				1	SPACE							E	1	20	EXISTING LOADS	2		1,3		
		1,3		3	EXISTING LOADS	20	1	E				E	1	20	EXISTING LOADS	4		1,3		
		1,3		5	EXISTING LOADS	20	1	E				E	1	20	EXISTING LOADS	6		1,3		
		1,3		7	EXISTING LOADS	70	3	E				E	1	20	EXISTING LOADS	8		1,3		
				9	"			E				E	1	20	EXISTING LOADS	10		1,3		
				11	"			E				E	1	20	EXISTING LOADS	12		1,3		
		1,3		13	EXISTING LOADS	20	1	E				E	1	20	EXISTING LOADS	14		1,3		
		1,3		15	EXISTING LOADS	20	1	E				E	1	20	EXISTING LOADS	16		1,3		
		1,3		17	EXISTING LOADS	20	1	E				E	1	20	EXISTING LOADS	18		1,3		
				19	SPACE								1	20	NOT LABELLED	20		1,4		
		1,3		21	EXISTING LOADS	30		E					1	20	NOT LABELLED	22		1,4		
				23	"			E					1	20	NOT LABELLED	24		1,4		
				25	"			E	3000			10	1	30	(N)GENERATOR BATTERY CHARGER AND BLOCK HEATER	26		5		
		2,5		27	CIRCUIT 1 FROM MSB	20	1	E		100		12	1	20	(N)SMOKE ALARM AND CARBON MONOXIDE	28		2,5		
		2,5		29	CIRCUIT 3 FROM MSB	20	1	E			50	12	1	20	(N)FIRE/SMOKE DAMER	30		2,5		
		2,5		31	CIRCUIT 7 FROM MSB	20	1	E							SPACE	32				
		2,5		33	CIRCUIT 9 FROM MSB	20	1	E							SPACE	34				
		2,5		35	CIRCUIT 11 FROM MSB	20	1	E							SPACE	36				
		2,5		37	(N)REFRIGERATOR	20		12	900						SPACE	38				
		2,5		39	(N)GAS RANGE AND HOOD FAN	20		12		500					SPACE	40				
		2,5		41	(N)APPLIANCES	20		12			1500				SPACE	42				

CONNECTED VA

	PHASE A	PHASE B	PHASE C
CON:	3900	600	1550
25%:	0	0	0
SUB:	0	0	0
TOT:	3900	600	1550
AMPS	33	5	13

LOAD (VA)	LOAD TYPE LEGEND	
0	R	RECEPTACLE
0	L	LIGHTING (125% OF CONNECTED LOAD CEC 215.2)
0	M	MECHANICAL
0	K	KITCHEN APPLIANCE
0	N	NON-CONTINUOUS MISC.
0	C	CONTINUOUS MISC. (125% OF CONNECTED LOAD CEC 215.2)

PANEL SCHEDULE NOTES

1. EXISTING BREAKER TO REMAIN.
2. "AFCI" BREAKER REQUIRED.
3 EXISTING BRANCH CIRCUIT TO REMAIN. NO CHANGE TO CONNECTED LOAD.
4. BREAKER NOT LABELED IN EXISTING PANEL. VERIFY LOAD AND LABEL BRANCH CIRCUIT OR "SPARE" AS APPLICABLE.
5. NEW CIRCUIT BREAKER REQUIRED.
6. PROVIDE CIRCUIT BREAKER LOCKING DEVICE.

Architect of Record
SHAH KAWASAKI ARCHITECTS
570 10th Street, Suite 201
Oakland, CA 94607

Consultant
THOMA ENGINEERING
THOMA ELECTRIC, INC.
P.O. Box 1167 - 3562 Empleo St.
San Luis Obispo, CA 93406
Phone: (805) 543-3850 Fax: (805) 543-3829
cad@thomaelec.com

DESIGNER STAMP:
REGISTERED PROFESSIONAL ENGINEER WILLIAM A. THOMA ELECTRICAL STATE OF CALIFORNIA
EXPIRES: 06/30/21
THOMA #19-8033.01

RECORD DRAWINGS:

DESIGNER: _____ DATE: _____
PUBLIC WORKS INSPECTOR: _____ DATE: _____
UTILITY/ FACILITY DEPT. HEAD: _____ DATE: _____
PROJECT ENGINEER: _____ DATE: _____
PUBLIC IMPROVEMENTS INITIALLY ACCEPTED BY THE CITY COUNCIL ON: _____ RES. NO. _____

DRAWN BY: _____ DATE: _____
CHECKED BY: ____ DATE: _____
DESIGNED BY: ____ DATE: _____

REVISIONS

NO.	ISSUE DESCRIPTION	ENGR. APR.	DATE
	ISSUED FOR PERMIT		10/08/2019
	RE-ISSUE FOR PERMIT		10/24/2019
	RE-ISSUE FOR PERMIT		10/31/2019

CITY OF MILPITAS ENGINEERING DIVISION

City Project Number: 3447

CITY OF MILPITAS FIRE STATION NO. 2 TEMP. STATION

1126 YOSEMITE DRIVE. MILPITAS, CA

REC. DWG NO.

Drawing Title
PANEL SCHEDULE

NOTE: If this drawing is not 36"x24" it has been revised from its original size and the scales noted on drawing/details are no longer applicable.
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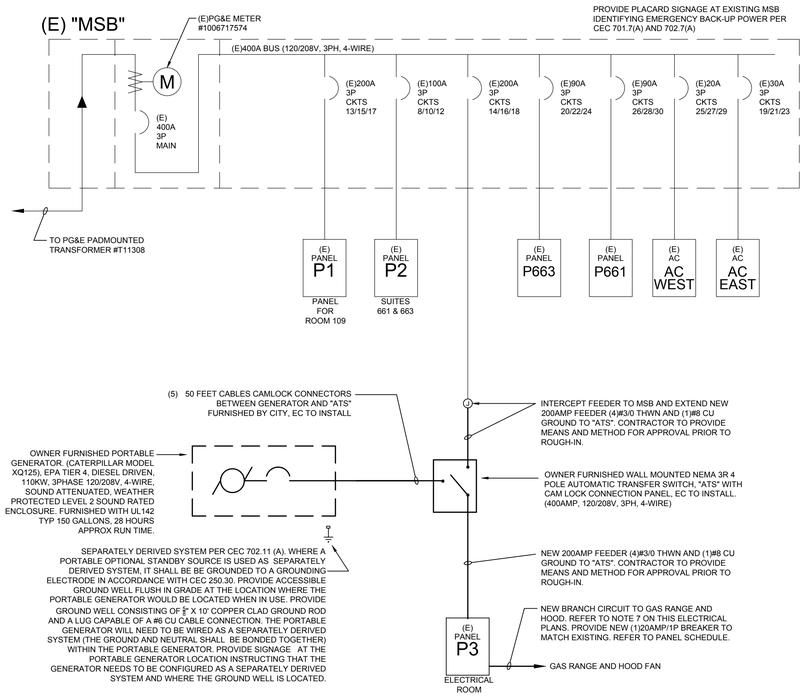
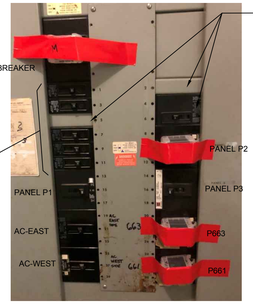
SCALE: AS NOTED

RECOMMENDED FOR BIDDING BY: _____ DATE: _____
MICHAEL SILVERA, P.E.

Drawing No.
E-003
Sheet No. ____ of ____

SINGLE LINE DIAGRAM





NOTE
CIRCUITS 4/6 IS 30A/2P BREAKER. BREAKER NOT LABELED IN EXISTING PANEL. VERIFY LOAD AND LABEL BRANCH CIRCUIT OR "SPARE" AS APPLICABLE.

CIRCUITS 2 AND 5 HAVE 1POLE SPACES

CIRCUIT 1 - OFFICE/ROOF OUTLETS
CIRCUIT 3 - OFFICE LIGHTS
CIRCUIT 7 - WATER HEATER
CIRCUIT 9 - OFFICE LIGHTS
CIRCUIT 11 - OFFICE LIGHTS

MOVE EXISTING BRANCH CIRCUIT ABOVE (1, 3, 7, 9, AND11.) TO PANEL P3. PROVIDE (5)20AMP/1P ARC FAULT BREAKER IN PANEL P3. (REFER TO PANEL SCHEDULE ON SHEET E-003) INTERCEPT EXISTING BRANCH CIRCUITS AND EXTEND NEW BRANCH CIRCUITS TO PANEL P3. UPDATE PANEL SCHEDULE AT MSB AND LABEL "SPARE" TO EACH CIRCUITS.

PICTURE OF CIRCUIT BREAKERS AT MSB SWITCHBOARD

SINGLE LINE DIAGRAM NOTES

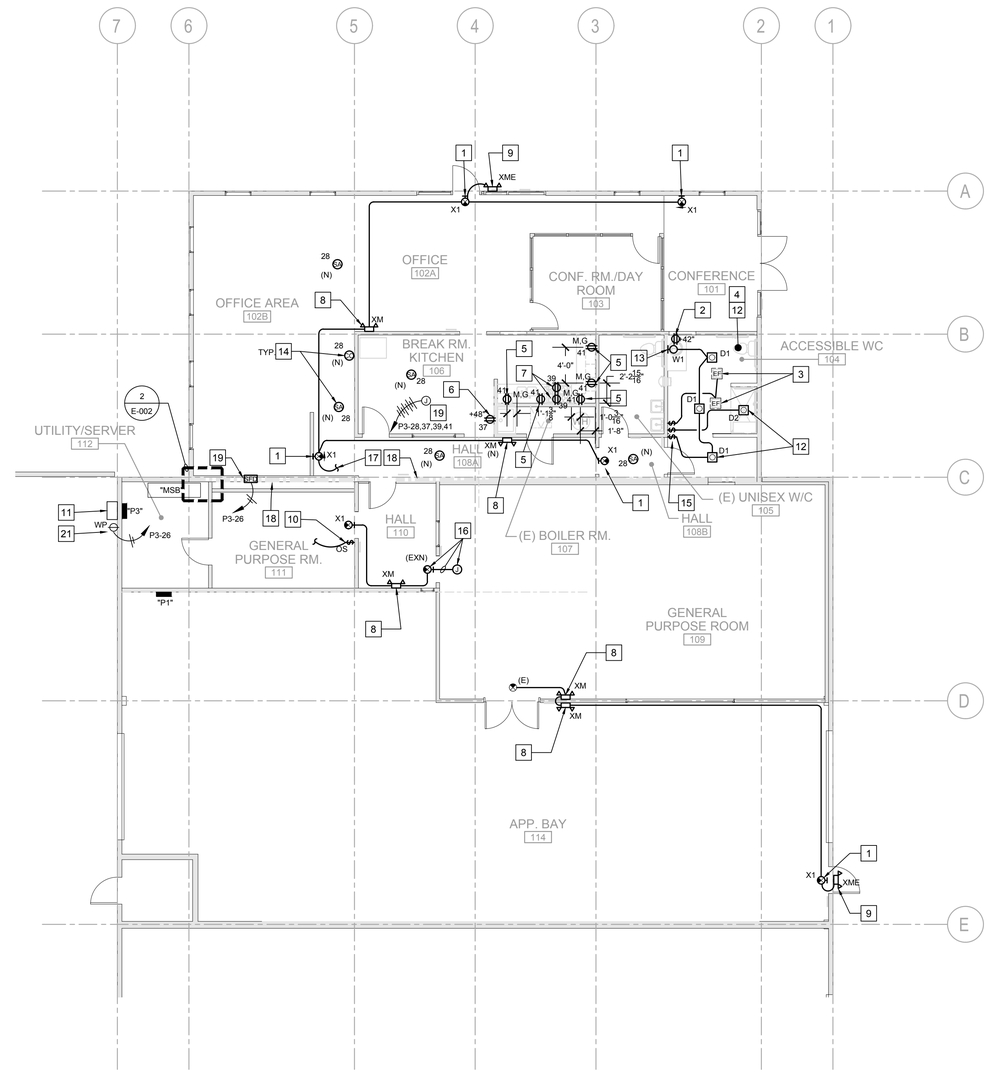
A. EXISTING ELECTRICAL SERVICE HAS BEEN INVESTIGATED AND FOUND TO HAVE ADEQUATE CAPACITY FOR THE PROPOSED LOAD ADDITION AS SHOWN ON THESE PLANS.

B. ALL CONDUCTORS SHALL BE COPPER WITH TYPE [THHN/THWN] INSULATION UNLESS OTHERWISE NOTED.

C. ALL SWITCHES, CIRCUIT BREAKERS AND OTHER EQUIPMENT, AS SPECIFIED, SHALL HAVE TERMINATION PROVISIONS LISTED AND IDENTIFIED FOR USE WITH 75 DEG. CONDUCTORS, AND ALL FEEDER CONDUCTORS, AND CONDUITS, ARE SIZE BASED ON USE OF 75 DEG. C COPPER WIRES TYPE THWN/THHN.

D. ALL EQUIPMENT SHALL HAVE AN APPROVED TESTING LABORATORY LABEL ATTACHED [UL, CSA, ETC.] (CEC 110-2).

E. ALL BOXES AND ENCLOSURES (INCLUDING TRANSFER SWITCHES, GENERATORS, AND POWER PANELS) FOR EMERGENCY CIRCUITS SHALL BE PERMANENTLY MARKED SO THEY WILL BE READILY IDENTIFIED AS A COMPONENT OF AN EMERGENCY CIRCUIT OR SYSTEM, PER NEC 700-9(A).



REFERENCE NOTES

1. NEW COMBINATION EXIT AND EMERGENCY LIGHTING FIXTURE TYPE X1 WITH 90 MINUTE BATTERY BACK-UP. (LITHONIA #ECC M M6 OR APPROVED EQUAL).
2. EXTEND EXISTING RECEPTACLE BRANCH CIRCUIT FROM ROOM 105 TO NEW RECEPTACLE. MOUNT AT +42"AFF.
3. CONNECT TO EXISTING EXHAUST FAN PER MECHANICAL PLANS.
4. EXTEND EXISTING LIGHTING BRANCH CIRCUIT FROM ROOM 105 TO NEW LIGHTS.
5. PROVIDE NEW BRANCH CIRCUIT FOR NEW COUNTER RECEPTACLES.
6. PROVIDE NEW BRANCH CIRCUIT FOR NEW REFRIGERATOR RECEPTACLE.
7. PROVIDE NEW BRANCH CIRCUIT TO NEW STOVE/FAN FROM PANEL "P3". COORDINATE EXACT LOCATION OF RECEPTACLE FOR HOOD/FAN PRIOR TO ROUGH-IN.
8. NEW EMERGENCY LIGHTING WITH 90 MINUTE BATTERY BACK UP. (LITHONIA #ELM2L M12 OR APPROVED EQUAL)
9. NEW EXTERIOR RATED EMERGENCY LIGHTING WITH 90 MINUTE BATTERY BACK UP (LITHONIA #ELTU-MR OR APPROVED EQUAL).
10. PROVIDE NEW WALL SWITCH AT EXISTING WALL. CONNECT TO EXISTING LIGHTS IN THE ROOM.
11. NEW OWNER FURNISHED AUTOMATIC TRANSFER SWITCH WITH CAM LOCK CONNECTION EC TO INSTALL. CONTRACTOR TO PROVIDE A COMPLETE WORKING SYSTEM. INTERCEPT EXISTING FEEDERS AND NEW FEEDERS FROM "ATS" TO PANEL P3 PER SINGLE LINE DIAGRAM.
12. PROVIDE A DAMP RATED LED 4IN ROUND WITH IC RATED HOUSING AND (JUNO #IC1LED-G4-09LM 30K 90CRI 120FRPC OR APPROVED EQUAL). PROVIDE 4" DOWNLIGHT WHITE TRIM #17CWH FOR AT "D1" AND ONE LENSE DROP OPAL TRIM AT SHOWER #11WH FOR "D2".
13. FIXTURE TYPE W1: PROVIDE 2' LED VANITY LIGHT MOUNTED ABOVE MIRROR. (LITHONIA #FMVTSL 24" MVOLT 30K 90CRI BN OR APPROVED EQUAL)
14. PROVIDE 120V SMOKE ALARM AND CARBON MONOXIDE. REFER TO GENERAL NOTES ON SHEET E-001.
15. PROVIDE VACANCY SWITCH.
16. EXISTING EXIT SIGN AT NEW LOCATION. INTERCEPT EXISTING BRANCH CIRCUIT FROM PREVIOUS LOCATION AND EXTEND TO NEW WITH 1/2"C (2)#12 AWG AND (1)#12 CU GROUND.
17. INTERCEPT EXISTING LIGHTING BRANCH CIRCUIT IN THIS ROOM WITH A CONTINUOUS HOT.
18. ANY CONDUIT PENETRATION TO EXISTING WALL AT GRID "C" REFER TO DETAIL 1/E-002.
19. CONNECT TO 120V SMOKE FIRE DAMPER PER MECHANICAL PLANS. PROVIDE NEW HOMERUN TO PANEL P3 WITH 3/4"C (2)#12 AWG AND (1)#12 CU GROUND.
20. NEW BRANCH CIRCUIT HOMERUN TO PANEL P3 FOR REFRIGERATOR, STOVE, KITCHEN APPLIANCES, AND SMOKE ALARM. REFER TO PANEL SCHEDULE. PROVIDE 3/4"C. (EMT) WITH (8)#12 THHN AND (1)#12 CU GROUND.
21. PROVIDE A 30AMP, 125V NEMA L5-30 FOR PORTABLE GENERATOR BATTERY CHARGER AND BLOCK HEATER. PROVIDE WHILE USE COVER. PROVIDE 1/2"C (EMT) WITH (2)#10 THHN AND (1)#10 CU GROUND

GENERAL NOTES

A. INSTALL SEPARATE NEUTRALS FOR EACH BRANCH CIRCUIT SERVING ISOLATED GROUND RECEPTACLES.

B. DEVICE LOCATIONS SHOWN ARE SCHEMATIC AND APPROXIMATE. EXACT LOCATIONS SHALL BE FIELD VERIFIED DURING ROUGH-IN WITH ARCHITECTURAL ELEVATIONS, CASEWORK SHOP DRAWINGS, FURNITURE, ETC. AND SHALL BE COORDINATED WITH OTHER TRADES TO AVOID CONFLICT WITH OTHER EQUIPMENT.

C. ALL NEW OUTLETS SHOWN AT R-2 OCCUPANCY PROVIDE TAMPER-PROOF OUTLETS PER CEC 406.12 AND AFCI CEC 210.12. REFER TO CODE DIAGRAM ON SHEET A-002 FOR R-2 OCCUPANCY.

ELECTRICAL FLOOR PLAN | A4 | 1/8" = 1'-0"

Architect of Record
SHAH KAWASAKI ARCHITECTS
570 10th Street, Suite 201
Oakland, CA 94607

Consultant
thoma ENGINEERING
THOMA ELECTRIC, INC.
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San Luis Obispo, CA 93406
Phone: (805) 543-3850 Fax: (805) 543-3829
cas@thomaelec.com

DESIGNER STAMP:
REGISTERED PROFESSIONAL ENGINEER WILLIAM A. THOMA NO. 16 ELECTRICAL STATE OF CALIFORNIA
EXPIRES: 06/30/21
THOMA #19-8033.01

RECORD DRAWINGS:

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PUBLIC WORKS INSPECTOR: _____ DATE: _____
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PROJECT ENGINEER: _____ DATE: _____
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DRAWN BY: _____ DATE: _____
CHECKED BY: _____ DATE: _____
DESIGNED BY: _____ DATE: _____

REVISIONS

NO.	ISSUE DESCRIPTION	ENGR. APR.	DATE
	ISSUED FOR PERMIT		10/08/2019
	RE-ISSUE FOR PERMIT		10/24/2019
	RE-ISSUE FOR PERMIT		10/31/2019

CITY OF MILPITAS ENGINEERING DIVISION

City Project Number: 3447

CITY OF MILPITAS FIRE STATION NO. 2 TEMP. STATION

1126 YOSEMITE DRIVE. MILPITAS, CA

REC. DWG NO.

Drawing Title
ELECTRICAL FLOOR PLAN AND SINGLE LINE DIAGRAM

NOTE: If this drawing is not 36"x24" it has been revised from its original size and the scales noted on drawing/details are no longer applicable.

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SCALE: AS NOTED

RECOMMENDED FOR BIDDING BY: _____ DATE: _____
MICHAEL SILVERA, P.E.

Drawing No. E-102
Sheet No. ____ of ____

EXHIBIT C: EXISTING PENETRATION AT EXISTING 1 HR. RATED WALL

Figure 01: HVAC Flexible Duct

Figure 02: Copper Pipes

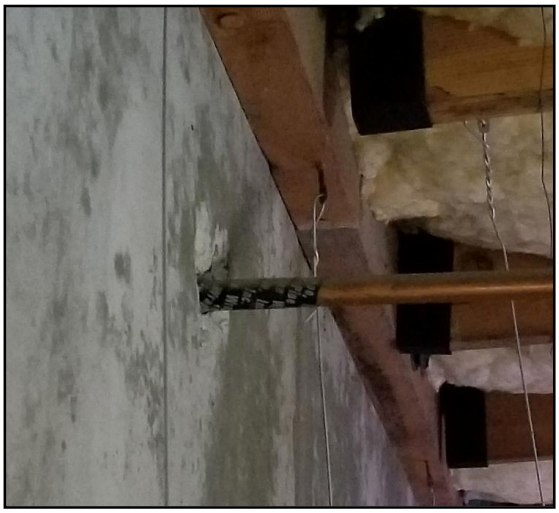
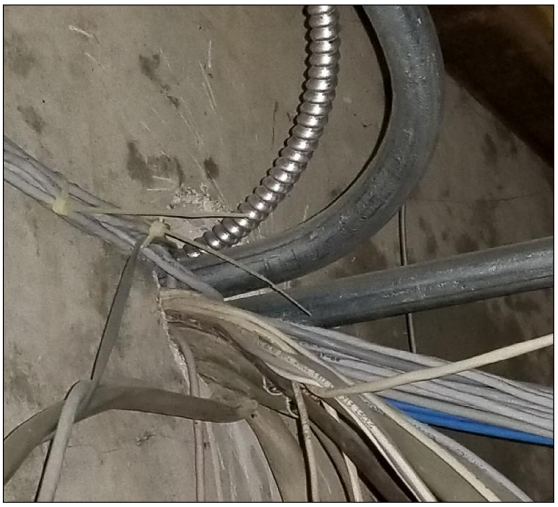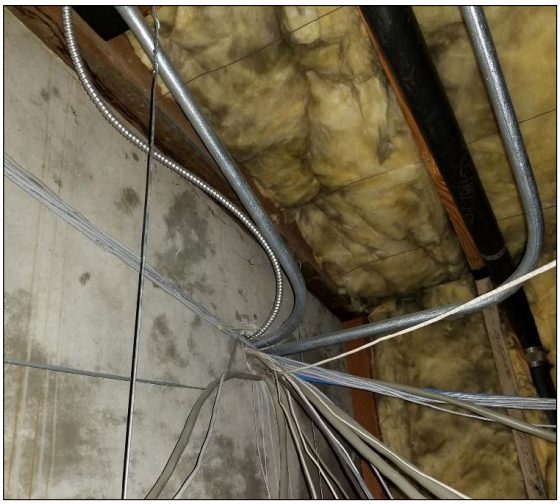
Figure 03: 4" Electrical Conduit