

REVISIONS

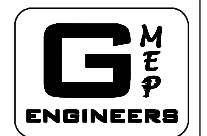
NO.	DESCRIPTION	DATE



Lucerne Valley CC
 Lucerne, CA, 95458

DATE: 12/15/2023
 DWG.#: 8441874
 DRAWN BY: DAB
 SCALE: 3/4" = 1'-0"
 MASTER DRAWING

SHEET NO. 5



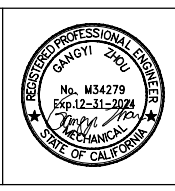
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 Tel: 949-257-9006
 06-20-2024

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REVISIONS

MARK	DATE	INITIAL	DESCRIPTION	APPR.	DATE

PLANS APPROVED BY:
 SAN BERNARDINO COUNTY - PUBLIC WORKS
 SPECIAL DISTRICTS

David R. Doublet
 ASSISTANT DIRECTOR

APPROVALS

PROJECT MANAGER	INITIAL	DATE
Alfonso Fausto		
OPS. DIVISION MANAGER		
Henry Mac		
PM. DIVISION MANAGER		
Noel Mondragon		

IMPROVEMENT PLANS

CSA 29 LUCERNE VALLEY COMMUNITY CENTER

RENOVATION PROJECT
 HOOD PACKAGE

DWG NO.
 FILE NO.
 SHEET M-1.6

DUCTWORK #1 PARTS - JOB#6441874 DOUBLE WALL

TAG	PART #	CFM	GPM	ZONE	COVEREDBY	SP	WEIGHT	VELOCITY	QTY	DESCRIPTION	
H1-E1	DW18DWRISER-3Z-S	1500					-1.05	8.59	0.00	1	DOUBLE WALL RISER COVER - USED ON 12" INNER RISER, 4" LONG - 3 LAYERS ZERO CLEARANCE - 18" STAINLESS STEEL OUTER RISER SHELL ASSEMBLY. INCLUDES INSULATION & SINGLE V CLAMPS FOR INNER & OUTER CONNECTIONS.
P1	DW1229DWLT-3Z-S	1500					-0.0181	44.03	1909.86	1	DOUBLE WALL DUCT - 12" INNER DUCT, 29" LONG - 3 LAYERS ZERO CLEARANCE - 18" STAINLESS STEEL OUTER SHELL.
P2 ASSEMBLED W/P3	DW1227DWAJ-DTP-3Z-S	1500					-0.0119	53.45	1909.86	1	DOUBLE WALL ADJUSTABLE DUCT TRANSITION PLATE - 12" INNER DUCT - 3 LAYERS ZERO CLEARANCE - 18" STAINLESS STEEL OUTER SHELL. MIN LENGTH = 11" / MAX LENGTH = 24.5" / ADJUSTABLE SECTION MAY NEED TO BE CUT. INCLUDES SINGLE AND DOUBLE WALL "V" CLAMPS.
P3 ASSEMBLED W/P2 & B	DW2312TP	1500						8.02	1909.86	1	DUCT TO CURB TRANSITION, 23" CURB TO 12" DUCT, 16 GA ALUMINIZED, MISC. NON-STANDARD TRANSITION PLATE.
SYSTEM AT P3							-1.08	0.00			
	3M-2000PLUS							0.80		1	DUCT - 3M FIRE BARRIER 2000 PLUS SILICONE - USED AS SEALANT TO SEAL DUCT JOINTS.
TOTAL WEIGHT								114.89			

DOUBLE WALL FACTORY BUILT DUCTWORK

- ALL DUCTWORK IS REQUIRED TO BE INSTALLED WITH THE MAXIMUM SUPPORT SPACING LISTED BELOW.
- FOR A COMPLETE LIST OF APPROVED SUPPORT METHODS, SEE THE ENTIRE INSTALLATION AND OPERATION MANUAL.
- DUCTWORK SHALL SLOPE NOT LESS THAN 1/16" PER LINEAR FOOT TOWARDS THE HOOD OR AN APPROVED GREASE COLLECTION RESERVOIR.
- WHERE HORIZONTAL DUCTS EXCEED 75 FEET IN LENGTH, THE SLOPE SHALL NOT BE LESS THAN 3/16" PER LINEAR FOOT.

HORIZONTAL	
DUCT DIAMETER	SUPPORT SPACING (FT)
5"	7"
6"	7"
7"	7"
8"	7"
10"	7"
12"	7"
14"	7"
16"	7"
18"	5"
20"	5"
22"	5"
24"	5"
26"	5"
28"	5"
30"	5"
32"	5"
34"	5"
36"	5"

VERTICAL			
TYPE	WALL SUPPORT (FT)	CURB SUPPORT (FT)	FLOOR SUPPORT (FT)
2R & 2R HT (5'-16")	20'	24'	24'
2R (18")	18'	24'	24'
3R & 3Z (5'-24")	10'	24'	24'
3Z (26"-36")	10'	20'	20'

DO NOT LEAK TEST USING SMOKE BOMBS CONTAINING CHLORINES/CHLORIDES. CONSULT WITH CAPTIVEAIRE FOR PROPER LEAK TESTING METHODS.

GREASE DUCT & CHIMNEY SPECIFICATIONS:
 PROVIDE GREASE DUCT EQUAL TO CAPTIVEAIRE SYSTEMS MODEL "DW" ROUND 20 GAUGE 430 STAINLESS STEEL DUCTWORK. MODEL "DW" IS LISTED TO UL-1978 AND IS INSTALLED USING "V" CLAMP LOCKING CONNECTIONS SEALED WITH 3M FIRE BARRIER 2000 PLUS. MODEL "DW" DOES NOT REQUIRE WELDING PROVIDING IT HAS BEEN INSTALLED PER THE MANUFACTURERS INSTALLATION GUIDE.
 PROVIDE RATED ACCESS DOORS AT EVERY CHANGE IN DIRECTION AND EVERY 12' ON CENTER. PER MANUFACTURERS LISTING MODEL "DW" HORIZONTAL RUNS LESS THAN 75 FT. CAN BE SLOPED 1/16" PER 12". HORIZONTAL RUNS MORE THAN 75 FT. CAN BE SLOPED 3/16" PER 12". DUCT SHOULD BE SLOPED AS MUCH AS POSSIBLE TO REDUCE THE CHANCE OF GREASE ACCUMULATION IN HORIZONTAL RUNS.
 IF THE DUCT OR CHIMNEY IS WITHIN 18 INCHES OF COMBUSTIBLE MATERIAL, PROVIDE UL-2221 OR UL-103 HT LISTED DOUBLE WALL GREASE DUCT OR DOUBLE WALL CHIMNEY EQUAL TO CAPTIVEAIRE SYSTEMS MODEL "DW-2R, 2R TYPE HT, 3R, OR 3Z" ROUND 20 GAUGE 430 STAINLESS INNER DUCT INSULATED WITH A 24 GAUGE 430 STAINLESS OUTER SHELL.

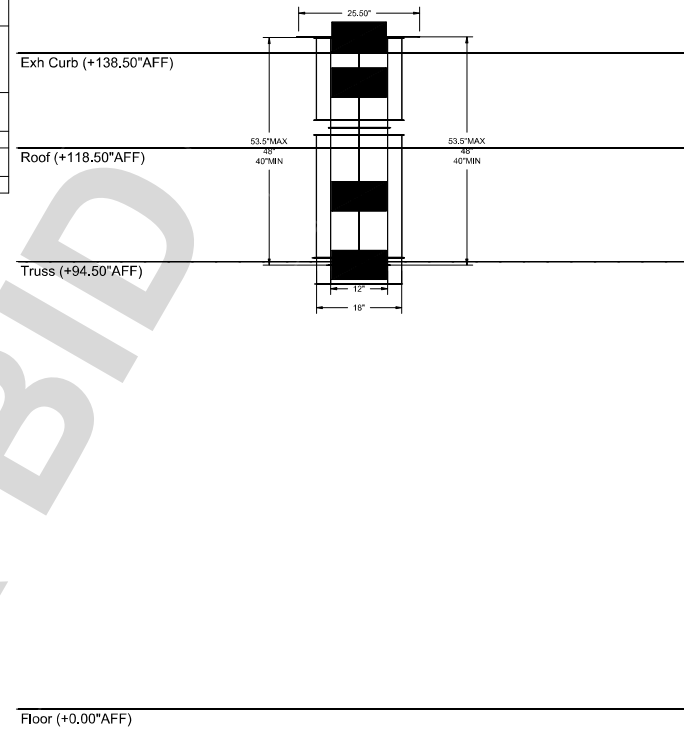
CAPTIVEAIRE SYSTEMS RECOMMENDS THE USE OF LISTED, PRE-FABRICATED ROUND GREASE EXHAUST DUCT TO REDUCE STATIC PRESSURE IN THE SYSTEM, MINIMIZE INSTALLATION AND INSPECTION TIMES, AND ENSURE DUCT IS LIQUID TIGHT

HVAC DISTRIBUTION NOTE
 HIGH VELOCITY DIFFUSERS OR HVAC RETURNS SHOULD NOT BE PLACED WITHIN TEN (10) FEET OF THE EXHAUST HOOD. PERFORATED DIFFUSERS ARE RECOMMENDED.

VERIFY CEILING HEIGHT
 HEIGHT REQUIRED TO VERIFY THAT HOOD FITS SPACE AND TO SIZE THE ENCLOSURE PANELS

CUSTOMER APPROVAL TO MANUFACTURE:
 APPROVED AS NOTED
 APPROVED WITH NO EXCEPTION TAKEN
 REVISE AND RESUBMIT
 SIGNATURE: _____ DATE: _____
 YOUR TITLE: _____

DUCTWORK #1 FRONT VIEW



REVISIONS	
DESCRIPTION	DATE

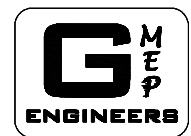
CAPTIVEAIRE

Southern California Office
 3002 Dow Ave., Suite 202, Tustin, CA 92780 PHONE: (714) 957-1500 FAX: 9192274976 EMAIL: reg8@captivaire.com

Lucerne Valley CC
 Lucerne, CA, 95458

DATE: 12/15/2023
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SHEET NO. 6



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DESIGN GROUP
 921.742.7179
 2800 ADAMS STREET
 RIVERSIDE, CA 92504
 www.designgroup.com

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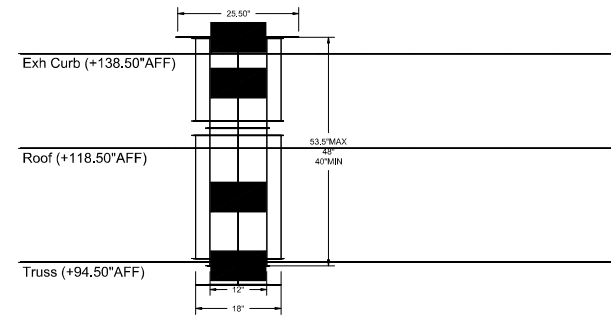
PLANS APPROVED BY:
SAN BERNARDINO COUNTY - PUBLIC WORKS SPECIAL DISTRICTS
David R. Doublet
 ASSISTANT DIRECTOR

PROJECT MANAGER	INITIAL	DATE
Alfonso Fausto		
OPS. DIVISION MANAGER	Henry Mac	
PM. DIVISION MANAGER	Noel Mondragon	

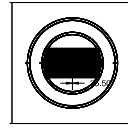
IMPROVEMENT PLANS
CSA 29 LUCERNE VALLEY COMMUNITY CENTER
RENOVATION PROJECT HOOD PACKAGE

DWG NO.
 FILE NO.
 SHEET **M-1.7**

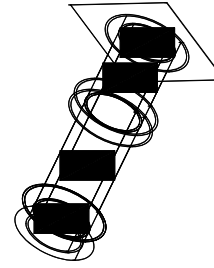
DUCTWORK #1 SIDE VIEW



DUCTWORK #1 TOP VIEW



DUCTWORK #1 SE VIEW



NOT FOR BID

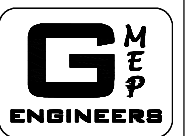
REVISIONS	
DESCRIPTION	DATE

Southern California Office
 www.captiveengineers.com
 3002 Dow Ave., Suite 202, Tustin, CA 92780 PHONE: (714) 957-1500 FAX: 9192276975 EMAIL: reg@captiveng.com

Lucerne Valley CC
 Lucerne, CA, 95458

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 DRAWN BY: DAB
 SCALE: 3/4" = 1'-0"
 MASTER DRAWING

SHEET NO.
 7



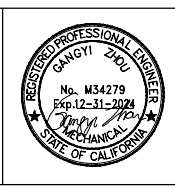
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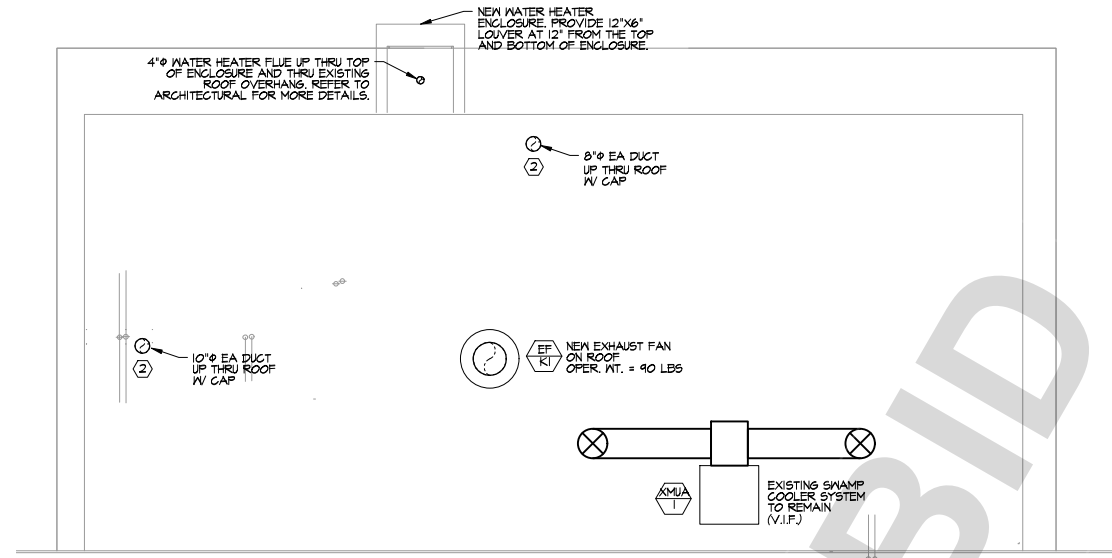
REVISIONS					
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PLANS APPROVED BY:
 SAN BERNARDINO COUNTY - PUBLIC WORKS
 SPECIAL DISTRICTS
 David R. Doublet
 ASSISTANT DIRECTOR

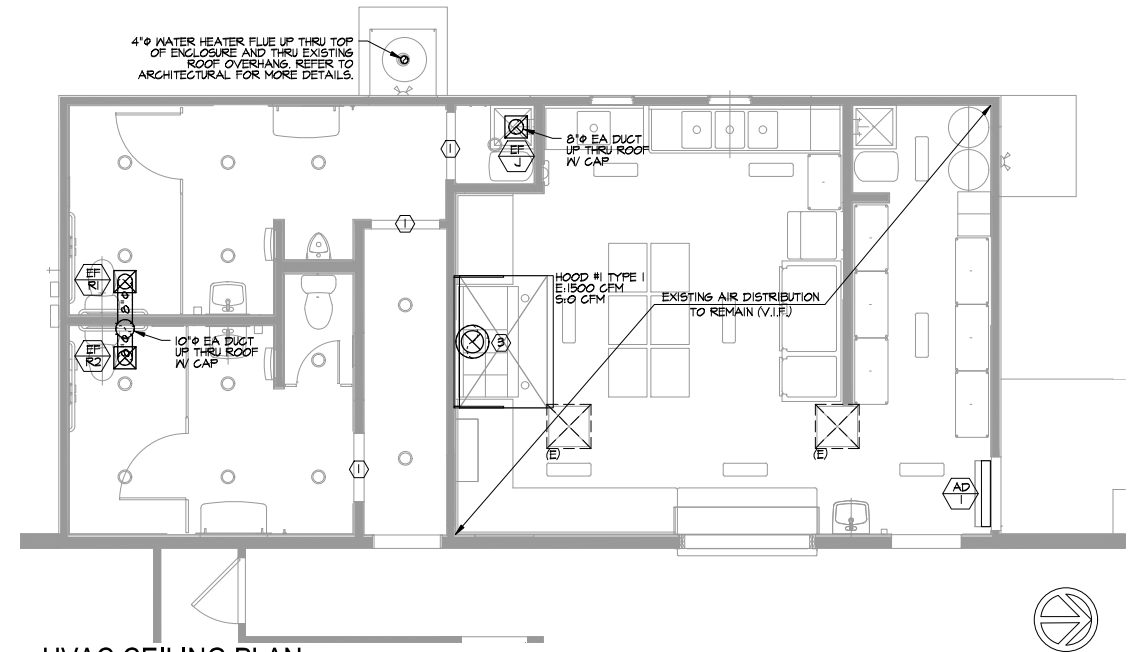
APPROVALS	PROJECT MANAGER	INITIAL	DATE
	Afonso Fausto		
	Henry Mac		
	Noel Mondragon		

IMPROVEMENT PLANS
CSA 29 LUCERNE VALLEY COMMUNITY CENTER
 RENOVATION PROJECT
 HOOD PACKAGE

DWG NO.
 FILE NO.
 SHEET **M-1.8**



HVAC ROOF PLAN
SCALE: 1/4"=1'-0"



HVAC CEILING PLAN
SCALE: 1/4"=1'-0"

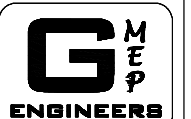
HVAC KEYED NOTES

- ① DOOR LOUVER FOR MAKEUP AIR. REFER TO ARCHITECTURAL PLANS DOOR SCHEDULE AND DETAILS.
- ② KEEP 10FT CLEAR FROM ANY FRESH AIR INTAKES, 3FT FROM BUILDING OPENINGS, AND 3FT FROM PROPERTY LINES (V.I.F.).
- ③ 12" ID, 18" OD FACTORY BUILT DOUBLE WALL GREASE DUCT UP TO EF-K1 ON ROOF. VEL = 1410 FPM

IMPORTANT BID NOTES

- CONTRACTOR IS RESPONSIBLE TO VERIFY EXISTING MECHANICAL EQUIPMENT AND DUCTWORK IN FIELD. REUSE EXISTING DUCTWORK WHERE POSSIBLE. NOTIFY ARCHITECT/ENGINEER IF MAJOR DISCREPANCY IS FOUND. NO COMPENSATION WILL BE MADE AFTER BID.

NOT FOR BID



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Lafayette, CA 94503
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PLANS APPROVED BY:
SAN BERNARDINO COUNTY - PUBLIC WORKS
SPECIAL DISTRICTS

David R. Doublet
ASSISTANT DIRECTOR

APPROVALS	PROJECT MANAGER	INITIAL	DATE
	Alfonso Fausto		
	Henry Mac		
	Noel Mondragon		

IMPROVEMENT PLANS
CSA 29 LUCERNE VALLEY COMMUNITY CENTER
RENOVATION PROJECT
HVAC CEILING & ROOF PLAN

DWG NO.
FILE NO.
SHEET **M-2.0**

STATE OF CALIFORNIA
Process Systems CALIFORNIA ENERGY COMMISSION
CERTIFICATE OF COMPLIANCE NRCC-PRC-E
Project Name: 23-938 Lucerne Community Valley Center Renovation Report Page: (Page 3 of 6)
Project Address: Date Prepared: 2024-01-02 10:34:30-05:00

H. ENCLOSED PARKING GARAGE EXHAUST
This section does not apply to this project.

I. PROCESS BOILER
This section does not apply to this project.

J. COMPRESSED AIR SYSTEMS
This section does not apply to this project.

K. ELEVATOR LIGHTING AND VENTILATION
This section does not apply to this project.

L. ESCALATORS AND MOVING WALKWAYS SPEED CONTROLS
This section does not apply to this project.

M. COMPUTER ROOM SYSTEM SUMMARY
This section does not apply to this project.

N. COMMERCIAL KITCHEN EXHAUST AND VENTILATION
This table contains all new and replacement hoods being installed within the scope of the permit application. Table N is used to demonstrate compliance with prescriptive requirements found in 140.9(f).
Kitchen Ventilation 140.9(b)2

01	<input type="checkbox"/>	Existing kitchen hoods not being replaced as part of an addition or alteration (do not need to meet requirements)
----	--------------------------	---

Requirements

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STATE OF CALIFORNIA
Process Systems CALIFORNIA ENERGY COMMISSION
CERTIFICATE OF COMPLIANCE NRCC-PRC-E
Project Name: 23-938 Lucerne Community Valley Center Renovation Report Page: (Page 2 of 6)
Project Address: Date Prepared: 2024-01-02 10:34:30-05:00

C. COMPLIANCE RESULTS
Results in this table are automatically calculated from data input and calculations in Tables F through R. Note: If any cell on this table says "COMPLIES with Exceptional Conditions" refer to Table D. Exceptional Conditions for guidance or see applicable Table referenced below.

01	02	03	04	05	06	07	08	09	10	11	12	13	14	Compliance Results	
Refrigerated Warehouse / Space (See Table F)	Commercial Refrigeration (See Table G)	Parking Garage Exhaust (See Table H)	Process Boilers (See Table I)	Compressed Air Systems (See Table J)	Elevators (See Table K)	Escalators & Moving Walkways (See Table L)	Computer Rooms (See Table M)	Commercial Kitchens (See Table N)	Laboratory/Factory Exhaust (See Table O)	Controlled Environment Horticulture (See Table P)	Steam Traps (See Table Q)	Multifamily Pool/Spa (See Table R)			COMPLIES

D. EXCEPTIONAL CONDITIONS
This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.

E. ADDITIONAL REMARKS
This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.

F. REFRIGERATED WAREHOUSES/SPACES
This section does not apply to this project.

G. COMMERCIAL REFRIGERATION
This section does not apply to this project.

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STATE OF CALIFORNIA
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CERTIFICATE OF COMPLIANCE NRCC-PRC-E
Project Name: 23-938 Lucerne Community Valley Center Renovation Report Page: (Page 1 of 6)
Project Address: Date Prepared: 2024-01-02 10:34:30-05:00

A. GENERAL INFORMATION

01	Project Location (city)	Lucerne Valley	04	Total Conditioned Floor Area	500
02	Climate Zone	14	05	Total Unconditioned Floor Area	0
03	Occupancy Types Within Project:		06	# of Stories (Habitable Above Grade)	1

• All Other Occupancies • Office

B. PROJECT SCOPE
This table includes process systems that are within the scope of the permit application and are demonstrating compliance with mandatory requirements in 120.6 / 160.7 or prescriptive requirements in 140.9.
My project consists of: (check all that apply):

01	Refrigerated Spaces <3,000 ft² Total (no Title 24, FIG requirements)	02	Escalator & Moving Walkway Speed Controls (mandatory 120.6(g))
<input type="checkbox"/>	Refrigerated Spaces >=3,000 ft² Total (mandatory 120.6(a))	<input type="checkbox"/>	Computer Rooms (mandatory 120.6(j)) and prescriptive 140.9(a)(1)
<input type="checkbox"/>	Food / Beverage Stores >8,000 ft² cbs (mandatory 120.6(b))	<input checked="" type="checkbox"/>	Commercial Kitchen Ventilation/Exhaust (prescriptive 140.9(b)(1))
<input type="checkbox"/>	Enclosed Parking Garage Exhaust >=10,000 cfm (mandatory 120.6(c))	<input type="checkbox"/>	Laboratory Exhaust/Factory Exhaust & Fume Hood (prescriptive 140.9(c)(1))
<input type="checkbox"/>	Newly Installed Process Boilers (mandatory 120.6(d))	<input type="checkbox"/>	Pool/Spa (mandatory 110.4 / 160.7)
<input type="checkbox"/>	Compressed Air Systems Combined HP >= 25 (mandatory 120.6(e))	<input type="checkbox"/>	Controlled Environment Horticulture (mandatory 120.6(h))
<input type="checkbox"/>	Elevator Lighting & Ventilation Controls (mandatory 120.6(f) / 160.7)	<input type="checkbox"/>	New Steam Traps (mandatory 120.6(i))

¹ FOOTNOTES: These building features can comply using the performance method. If using the performance method for these features, compliance should be demonstrated on the NRCC-PRC-E.

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Project Name: 23-938 Lucerne Community Valley Center Renovation Report Page: (Page 6 of 6)
Project Address: Date Prepared: 2024-01-02 10:34:30-05:00

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT
I certify that this Certificate of Compliance documentation is accurate and complete.
Documentation Author Name: Will Carlton
Documentation Author Signature: *Will Carlton*
Company: GMEP Engineers
Signature Date: 01/02/2024
Address: 26439 Rancho Pkwy, Suite 120
City/State/Zip: Lake Forest, CA 92630
CEA/HERG Certification Identification (if applicable):
Phone: 949.267.9095 ext. 320

RESPONSIBLE PERSON'S DECLARATION STATEMENT
I certify the following under penalty of perjury, under the laws of the State of California:
1. The information provided on this Certificate of Compliance is true and correct.
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer).
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation submitted to the building owner at occupancy.
Responsible Designer Name: Gangyi Zhou
Responsible Designer Signature: *Gangyi Zhou*
Company: GMEP Engineers
Signature Date: 01/02/2024
Address: 26439 Rancho Pkwy, Suite 120
City/State/Zip: Lake Forest, CA 92630
License: M34279
Phone: 949.267.9095

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Project Name: 23-938 Lucerne Community Valley Center Renovation Report Page: (Page 5 of 6)
Project Address: Date Prepared: 2024-01-02 10:34:30-05:00

R. POOL & SPAS
This section does not apply to this project.

S. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION
Selections have been made based on information provided in this document. If any selections have been changed by permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at <https://www.energy.ca.gov/programs-and-topics/programs/building-energy-efficiency-standards/2022-building-energy-efficiency-4>

Form/Title	Systems/Spaces To Be Field Verified
NRCC-PRC-01-E - Covered Process	
NRCA-PRC-02-E Kitchen Exhaust	Kitchen

T. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE
Selections have been made based on information provided in this document. If any selection have been changed by permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and must be completed through an Acceptance Test Technician Certification Provider (ATTCP). For more information visit: <http://www.energy.ca.gov/title24/atccp/providers.html>

Form/Title	Systems/Spaces To Be Field Verified

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Project Name: 23-938 Lucerne Community Valley Center Renovation Report Page: (Page 4 of 6)
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N. COMMERCIAL KITCHEN EXHAUST AND VENTILATION

02	Replacement Air to Hood Compliance Method 140.9(b)1A
03	Providing replacement air directly to the hood(s) that does not exceed 10% of the hood(s) exhaust rate
04	Mechanically cooled or heated makeup air delivered to any space with a kitchen hood is designed per 140.9(b)2A to not exceed the greater of: The hood exhaust flow minus the available transfer air from adjacent spaces
05	Location that is supplying transfer air: Kitchen /> The kitchen/dining facility has a total Type I and Type II kitchen hood exhaust airflow > 5000 cfm and is designed to have one of the following per 140.9(b)2B: NA: Not a kitchen/dining facility having a total Type I and Type II kitchen hood exhaust airflow rate > 5,000 cfm

Kitchen Exhaust: Airflow Rate 140.9(b)1B

01	02	03	04	05	06	07	08
Compliance Method per 140.9(b)1B	Kitchen Name or Item Tag	Kitchen	Hood Type ¹	Hood Style	Hood Length (ft)	Equipment Duty	Design Hood Exhaust Rate CFM
			Type I				1500

¹ FOOTNOTES: Type II hoods do not have a max hood exhaust air rate per 140.9(b)1B

O. LABORATORY AND FACTORY EXHAUST AND FUME HOODS
This section does not apply to this project.

P. CONTROLLED ENVIRONMENT HORTICULTURE
This section does not apply to this project.

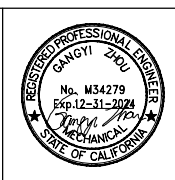
Q. STEAM TRAPS IN INDUSTRIAL FACILITIES
This section does not apply to this project.

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BASIS OF BEARINGS:



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PLANS APPROVED BY:
SAN BERNARDINO COUNTY - PUBLIC WORKS
SPECIAL DISTRICTS
David R. Doublet
ASSISTANT DIRECTOR

APPROVALS	PROJECT MANAGER	INITIAL	DATE
	Alfonso Fausto		
	OPS. DIVISION MANAGER	Henry Mac	
	PM. DIVISION MANAGER	Noel Mondragon	

IMPROVEMENT PLANS
CSA 29 LUCERNE VALLEY COMMUNITY CENTER
RENOVATION PROJECT
TITLE 24 FORMS

DWG NO.
FILE NO.
SHEET **T-24.0**



HOT WATER CONSUMPTION & SIZING CALCULATIONS

PLUMBING FIXTURE HOT WATER USE				WATER HEATER STORAGE CAPACITY/SIZING:	
FIXTURE TYPE	QTY	UNIT HOT WATER (GPH)	TOTAL HOT WATER (GPH)	6.P.H. MAX. POSS DEMAND	80
HAND SINK	1	5	5	MINUS DISHWASHER GPH	0
LAVATORY	2	5	10	6PH REMAINING	80
3-COMP SINK	1	30	30	DEMAND FACTOR	0.6
PREP SINK	1	5	5	6PH	48
MOP SINK	2	15	30	PLUS DISHWASHER GPH	0
TOTAL HOT WATER (GPH)				6PH MAXIMUM PORTABLE DEMAND	48
				STORAGE FACTOR	0.7
TOTAL HOT WATER (GPH)				MINIMUM STORAGE CAPACITY IN GALLON REQUIRED:	93.6
				MINIMUM BTUH REQUIRED:	58912
TOTAL HOT WATER (GPH)				MINIMUM KW REQUIRED:	11.952
				INSULATION TABLE FOR DOMESTIC HOT WATER PIPING	
PIPE SIZE < 1" 1" - 1-1/2" 2" & LARGER INSULATION THICKNESS 1" 1-1/2" 2"				ASHRAE NT. WATER = 8.33 TEMP RISE (AVE) = 60 DEG THERMAL EFF. GAS = 0.75 ICM = 3.412 BTUS GAS HOT WATER SYSTEM GPH X NT WATER X TEMP RISE BTUH = THERMAL EFFICIENCY = 6PH X 666.4 = 59,976 BTU	

COPPER TYPE L PIPE SIZING CHART

FOR VELOCITY OF 8FPS (CW) AND 5FPS(HW); PRESSURE LOSS PER 100FT IN PSI=1.0

PIPE SIZE	COLD WATER			HOT WATER	
	TANK FU	F.V. FU	GPM	TANK FU	GPM
1/2"	3	-	3	3	3
3/4"	12	-	9	8	7
1"	28	-	19	16	12
1 1/4"	56	14	31	28	19
1 1/2"	103	35	44	46	27
2"	254	132	76	119	48
2 1/2"	455	329	115	245	74
3"	719	666	165	406	105
3 1/2"	1091	1091	220	585	140
4"	1668	1668	290	840	185

BASED ON CHART A 103.(1) OF APPENDIX A IN THE CALIFORNIA PLUMBING CODE(CPC2022)

FIXTURE SCHEDULE

ITEM	DESCRIPTION	MAKE/MODEL	TRAP	WASTE	VENT	COLD WATER	HOT WATER	REMARKS
WH-1	GAS WATER HEATER, 60 GAL, 54,000 BTU	AO SMITH BT-60	-	-	-	3/4"	3/4"	60 GAL, 54,000 BTU. VERIFY W/ OWNER OR ARCHITECT FOR EXACT FIXTURE SPECIFICATION BEFORE PURCHASING FIXTURE
WC-1	WATER CLOSET, FLUSH TANK, ADA TYPE, 1.28 GPF	PROFLOW PF4403WH	-	4"	2"	3/4"	-	1.28 GPF. VERIFY W/ OWNER OR ARCHITECT FOR EXACT FIXTURE SPECIFICATION BEFORE PURCHASING FIXTURE
L-1	LAVATORY	KOHLER K-2007	1-1/2"	2"	1-1/2"	1/2"	1/2"	WALL HUNG LAVATORY WITH K-18462, ADA APPROVED AUTOMATIC WITH 0.5 GPM FLOW CONTROL AERATOR, GRID STRAINER, STOPS, SUPPLIES AND ADA PIPING INSULATION KIT. VERIFY W/ OWNER OR ARCHITECT FOR EXACT FIXTURE SPECIFICATION BEFORE PURCHASING FIXTURE
U-1	URINAL, WATERLESS	KOHLER K-4919 OR EQUAL	1-1/2"	2"	1-1/2"	1-1/4"	-	VERIFY W/ OWNER OR ARCHITECT FOR EXACT FIXTURE SPECIFICATION BEFORE PURCHASING FIXTURE
S-1	PREP SINK	ADVANCE TABCO FE-1812-18RLX	1-1/2"	2"	1-1/2"	3/4"	3/4"	ADVANCE TABCO K-11 FAUCET. VERIFY W/ OWNER OR ARCHITECT FOR EXACT FIXTURE SPECIFICATION BEFORE PURCHASING FIXTURE
S-2	3-COMP SINK	ELKAY I4-3016X20-2-18X	1-1/2"	2"	1-1/2"	3/4"	3/4"	T45 BRASS - 3-201 FAUCET OR EQUAL. VERIFY W/ OWNER OR ARCHITECT FOR EXACT FIXTURE SPECIFICATION BEFORE PURCHASING FIXTURE
HS-1	HAND SINK	KOHLER K-2007	1-1/2"	2"	1-1/2"	1/2"	1/2"	WALL HUNG LAVATORY WITH K-18462, ADA APPROVED AUTOMATIC WITH 0.5 GPM FLOW CONTROL AERATOR, GRID STRAINER, STOPS, SUPPLIES AND ADA PIPING INSULATION KIT. VERIFY W/ OWNER OR ARCHITECT FOR EXACT FIXTURE SPECIFICATION BEFORE PURCHASING FIXTURE
MS-1	MOP SINK	FLORESTONE MSR-2424	1-1/2"	2"	1-1/2"	3/4"	3/4"	CHICAGO 847-CP FAUCET. PROVIDED WITH A BACKFLOW ANTI-SIPHON DEVICE. VERIFY W/ OWNER OR ARCHITECT FOR EXACT FIXTURE SPECIFICATION BEFORE PURCHASING FIXTURE
CP-1	CIRCULATION PUMP	TACO 006 OR EQUAL	-	-	-	3/4"	-	VERIFY W/ OWNER OR ARCHITECT FOR EXACT FIXTURE SPECIFICATION BEFORE PURCHASING FIXTURE
FS-1	FLOOR SINK	ZURN FD2875	2"	2"	1-1/2"	-	-	VERIFY W/ OWNER OR ARCHITECT FOR EXACT FIXTURE SPECIFICATION BEFORE PURCHASING FIXTURE
FD-1	FLOOR DRAIN	ZURN Z1901 OR EQUAL	2"	2"	1-1/2"	-	-	PROVIDE TRAP PRIMER. VERIFY W/ OWNER OR ARCHITECT FOR EXACT FIXTURE SPECIFICATION BEFORE PURCHASING FIXTURE
RPBFP-1	BACKFLOW PREVENTER	WATTS SD-3 OR EQUAL	-	-	-	-	-	VERIFY W/ OWNER OR ARCHITECT FOR EXACT FIXTURE SPECIFICATION BEFORE PURCHASING FIXTURE
DF-1	DRINKING FOUNTAIN/BOTTLE FILLER	MURDOCK A172.8-16-VR-BF	1-1/2"	1-1/2"	1-1/2"	1/2"	-	VERIFY W/ OWNER OR ARCHITECT FOR EXACT FIXTURE SPECIFICATION BEFORE PURCHASING FIXTURE
GT-1	GREASE TRAP	SCHIER 6B-50	-	-	-	-	-	VERIFY W/ OWNER OR ARCHITECT FOR EXACT FIXTURE SPECIFICATION BEFORE PURCHASING FIXTURE
MV-1	MIXING VALVE	WATTS LFMMV OR EQUAL	-	-	-	1/2"	1/2"	VERIFY W/ OWNER OR ARCHITECT FOR EXACT FIXTURE SPECIFICATION BEFORE PURCHASING FIXTURE

*PLUMBING FIXTURES MUST COMPLY WITH GREEN BUILDING STANDARDS

- ### GENERAL PLUMBING NOTES
- EXISTING CONDITIONS ARE BASED ON LIMITED FIELD VERIFICATION. CONTRACTOR SHALL ADJUST TO ACTUAL FIELD CONDITIONS AT NO ADDITIONAL EXPENSE TO THE OWNER.
 - ALL CONTRACTORS SHALL REVIEW A COMPLETE SET OF CONSTRUCTION DOCUMENTS. PLUMBING CONTRACTOR SHOULD COORDINATE HIS WORK WITH ALL OTHER TRADES. THIS INCLUDES COORDINATING THE LOCATION AND SIZE OF ALL OPENINGS, LOCATIONS OF EQUIPMENT PAD, AND CHANGES OF ELEVATIONS.
 - CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH DEMOLITION RESPONSIBLE TO BIDDING AND START OF WORK. CONTRACTOR IS RESPONSIBLE ALL EXISTING AS REQUIRED FOR INSTALLATION/CONSTRUCTION OF NEW WORK.
 - CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD VERIFICATION OF ALL EXISTING CONDITIONS PRIOR TO SUBMITTING HIS BID. VERIFY LOCATION, ELEVATIONS, AND SIZES OF ALL EXISTING PLUMBING AND INFORM THE ARCHITECT OF ANY DISCREPANCIES. NO ADDITIONAL COMPENSATION WILL BE MADE FOR ANY EXTRAS DUE TO CONTRACTOR'S FAILURE TO VISIT THE JOBSITE AND/OR PREDETERMINE ALL EXISTING CONDITIONS BEFORE SUBMITTING HIS BID. ANY DISCREPANCIES SHALL BE IMMEDIATELY REPORTED TO THE ARCHITECT FOR RESOLUTION. NO EXCEPTION.
 - CONTRACTOR SHALL BE RESPONSIBLE FOR THE FIELD VERIFICATION OF ALL UTILITY RUNS, UNDERGROUND AND ABOVE GROUND PIPING AND/OR OTHER IMPROVEMENTS LOCATED ON THE PREMISES. CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR ALL COSTS RELATING TO THE RELOCATION OF, DAMAGE TO, REPAIR OF ANY EXISTING UTILITY RUNS AND/OR IMPROVEMENTS WHICH ARE DAMAGED AS A RESULT OF WORK IN OR AROUND THE PREMISES.
 - REFER TO ARCHITECTURAL DRAWINGS FOR EXACT SPECIFICATIONS, LOCATIONS AND MOUNTING HEIGHTS OF ALL PLUMBING FIXTURES. NO EXCEPTION.
 - IT IS THE CONTRACTOR'S RESPONSIBILITY TO PREPARE ACCURATE AS-BUILT DRAWINGS DURING CONSTRUCTION AND SUBMIT FOR APPROVAL UPON COMPLETION OF INSTALLATION.
 - CONTRACTOR SHALL FINISH ALL MATERIALS, LABOR, EQUIPMENT, TRANSPORTATION AND SERVICES REQUIRED FOR COMPLETING THE WORK. ALL MATERIALS AND WORK SHALL COMPLY WITH APPLICABLE CODES AND REGULATIONS AND MEET THE APPROVAL OF STATE & LOCAL JURISDICTION.
 - WATER HEATER SHALL BE CERTIFIED BY THE MANUFACTURER AND MUST COMPLY WITH THE EFFICIENCY STANDARDS OF THE CALIFORNIA ENERGY COMMISSION, 2014 EDITION.
 - ALL HOT WATER PIPING SHALL BE INSULATED WITH ARMSTRONG 'ARMAFLEX' INSULATION PER SECTION 609.12 OF THE 2022 PLUMBING CODE AND TABLE 120.3-A, SECTION 120.3 OF THE 2022 CALIFORNIA ENERGY CODE.
 - CONTRACTOR SHALL VERIFY WATER PRESSURE CONDITIONS AT THE PROJECT SITE. CONTRACTOR SHALL PROVIDE INSTALL A PRESSURE REGULATOR WHERE THE SUPPLY PRESSURE EXCEEDS 80 PSI.
 - ALL PIPING SHALL BE SUPPORTED AT INTERVAL NOT TO EXCEED THOSE SHOWN IN CPC TABLE 313.3
 - ALL POTABLE WATER OUTLETS WITH HOSE ATTACHMENTS, SUCH AS HOSE BIBS, AND MOP SINKS ARE TO BE PROVIDED WITH A BACKFLOW ANTI-SIPHON DEVICE.
 - ALL CONCEALED PIPING SHALL BE INSTALLED PER CALIFORNIA PLUMBING CODE 2022. NO EXCEPTION.
 - LAVATORIES IN PUBLIC RESTROOMS SHALL BE LIMITED TO 0.56PM
 - ALL FAUCETS SHALL COMPLY WITH CALIFORNIA PROPOSITION 65 AND SHALL BE CERTIFIED TO NSF STANDARD 61 SECTION 9 FOR DRINKING WATER COMPONENTS.
 - ALL REQUIRED CLEANOUTS SHALL BE INSTALLED AS PER SEC. 701.0 & 719.0 OF THE 2022 CALIFORNIA PLUMBING CODE.
 - FLOOR DRAINS OR SIMILAR TRAPS DIRECTLY CONNECTED TO THE DRAINAGE SYSTEM AND SUBJECT TO INFREQUENT USE SHALL BE PROVIDED WITH AN APPROVED AUTOMATIC MEANS OF MAINTAINING THEIR WATER SEALS.
 - NEW WATER CLOSET AND ASSOCIATED FLUSHMETER VALVES SHALL BE NO MORE THAN 128 GALLONS PER FLUSH AND SHALL MEET THE AMERICAN STANDARDS INSTITUTE STANDARD A11.19.2 H45 CODE, SECTION 1742.3(B).
 - NEW URINALS AND ASSOCIATED FLUSHMETER VALVES SHALL BE NO MORE THAN 0.125 GALLONS PER FLUSH AND SHALL MEET THE AMERICAN STANDARDS INSTITUTE STANDARD A11.19.2 H45 CODE, SECTION 1742.3(B).
 - ALL PLUMBING VENTS SHALL TERMINATE NOT LESS THAN TEN(10) FEET FROM OR AT LEAST THREE (3) FEET ABOVE ANY DOOR, OPENING, FRESH AIR INTAKE OR VENT SHAFT.
 - SLOPE ALL CONDENSATE DRAIN LINES AT 1% AND SLOPE ALL SEWER PIPING MINIMUM OF 2%.
 - WASTE & VENT PIPING MATERIAL: SHALL BE ABS/PVC OR ABS SERVICE WEIGHT CAST IRON NO-HUB SOIL PIPE AND FITTINGS WITH NO-HUB CLAMPS. MUST CONFORM TO CISPI STANDARD 301.046 & 310.04 AND CLEARLY MARKED WITH THE CAST IRON SOIL PIPE INSTITUTE TRADEMARK, MANUFACTURER'S NAME AND COUNTRY OF ORIGIN. ABS/PVC CAN BE USED IF ALLOWED BY LOCAL AUTHORITY HAVING JURISDICTION.
 - WRAP ALL IRON AND COPPER PIPE AND FITTINGS BELOW SLAB OR GRADE WITH 8 MIL POLYETHYLENE WRAP AND 6" MINIMUM ENVELOPE OF CLEAN SAND. ALL ROUN DPIPE IN ACCORDANCE WITH NSI/ANWA STANDARD C105/A21.5-82.
 - WATER PIPE SHALL BE TYPE "L" ABOVE GRADE. HARD DRAWN COPPER TUBING WITH WROUGHT COPPER FITTINGS, SOLDER ALL JOINTS WITH LEAD-FREE SOLDER.
 - CONDENSATE DRAIN PIPE SHALL BE TYPE "DWV" HARD DRAWN COPPER TUBING WITH WROUGHT COPPER FITTINGS, 50-50 SOLDERED JOINTS. INSULATE ALL CONDENSATE DRAIN PIPING WITHIN BUILDING INTERIOR.
 - NEW OR REPAIRED PORTABLE WATER SYSTEMS SHALL BE DISINFECTED PRIOR TO USE ACCORDING TO THE METHODS IN CPC 2022 609.10. NO EXCEPTION.
 - CONTRACTOR TO PROVIDE THERMOSTATIC MIXING VALVES FOR PUBLIC-USE LAVATORIES TO LIMIT TEMPERATURE TO A MAXIMUM OF 120 DEGREES FAHRENHEIT (2022 CPC 407.3).
 - THIS DOCUMENT IS NOT FOR BID OR CONSTRUCTION UNTIL THE PLAN HAS BEEN REVIEWED AND APPROVED BY ALL AUTHORITIES HAVING JURISDICTION AND THE PERMIT IS OBTAINED. NO COMPENSATION WILL BE MADE FOR ADDITIONAL WORK DUE TO THE VIOLATION OF THIS REQUIREMENT.
 - THIS PROJECT MUST COMPLY WITH THE CALIFORNIA PLUMBING CODE 2022.

PIPING SYMBOLS

SYMBOL	MEANING	SYMBOL	MEANING
---	DOMESTIC COLD WATER	⊕	FLOOR SINK
---	DOMESTIC HOT WATER	⊖	FLOOR CLEANOUT
---	DOMESTIC H.V. CIRCULATING	⊕	WALL CLEANOUT
---	SANITARY SEWER	⊖	FLOOR DRAIN
---	VENT PIPING	⊕	GAS COCK
---	STORM DRAIN PIPING	⊖	PLUMBING FIXTURE
---	GREASE WASTE	⊕	CONNECT TO EXISTING
G	GAS	⊖	SHUT-OFF VALVE
CD	CONDENSATE DRAIN	⊕	RECIRCULATION PUMP
		⊖	PIPE CAP
		⊕	PIPE ELBOW DOWN
		⊖	PIPE ELBOW UP



KEYED PLAN
SCALE: NONE

FIXTURE UNIT CALCULATIONS

FIXTURE TYPE	QTY	DOMESTIC WATER				DRAINAGE	
		FIXTURE DEMAND	HOT DEMAND	TOTAL WATER DEMAND (WSPFU)	TOTAL HOT WATER DEMAND	DFU	TOTAL
WATER CLOSET, FLUSH TANK	3	2.5	0.0	7.5	0.0	4	12
LAVATORY	2	1.0	1.0	2.0	2.0	1	2
URINAL, WATERLESS	1	0.0	0.0	0.0	0.0	2	2
PREP SINK	1	1.5	1.5	1.5	1.5	2	2
HAND SINK	1	1.5	1.5	1.5	1.5	2	2
3-COMP SINK	1	3.0	3.0	3.0	3.0	3	3
MOP SINK	2	3.0	3.0	6.0	6.0	3	6
ICE MAKER/DRINKING FOUNTAIN	3	0.5	0.0	1.5	0.0	0	0
FLOOR SINK/RAIN	8	0.0	0.0	0.0	0.0	2	16
TOTAL FIXTURE UNITS				29.0	14.0		45
EQUIVALENT WATER DEMAND IN GPM				16	11		
REQUIRED MINIMUM PIPE SIZE				1"	1"		4"

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OR
811
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BENCHMARK:

BASIS OF BEARINGS:



REVISIONS

MARK	DATE	INITIAL	DESCRIPTION	APPR.	DATE

PLANS APPROVED BY:
**SAN BERNARDINO COUNTY - PUBLIC WORKS
SPECIAL DISTRICTS**

David R. Doublet
ASSISTANT DIRECTOR

PROJECT MANAGER	INITIAL	DATE
Alfonso Fausto		
OPS. DIVISION MANAGER	INITIAL	DATE
Henry Mac		
PM. DIVISION MANAGER	INITIAL	DATE
Noel Mondragon		

IMPROVEMENT PLANS

CSA 29 LUCERNE VALLEY COMMUNITY CENTER

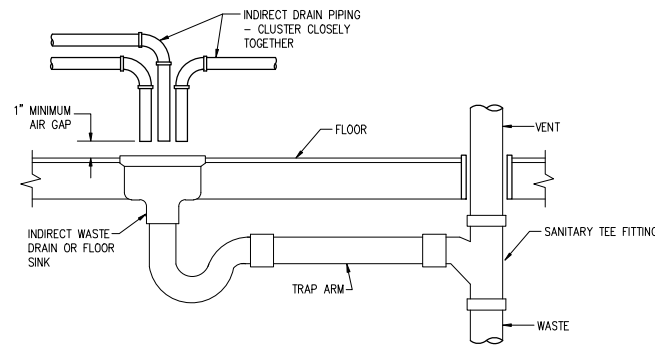
RENOVATION PROJECT

PLUMBING

GENERAL NOTES

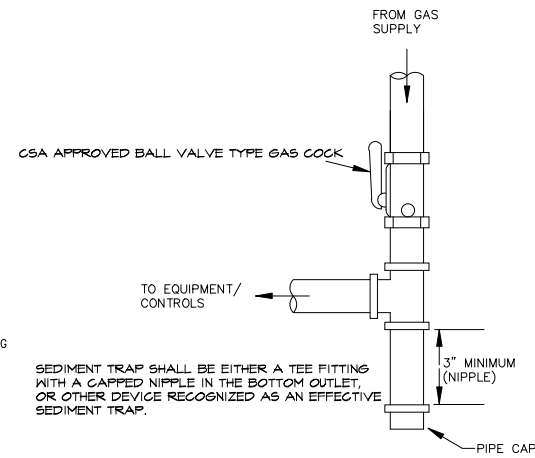
DWG NO.
FILE NO.
SHEET **P-1.0**

06-20-2024



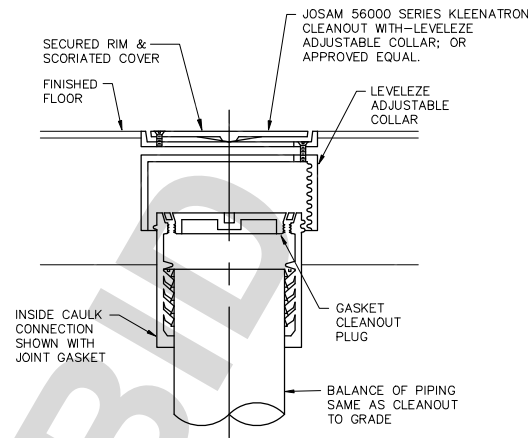
TYPICAL INDIRECT DRAIN

SCALE: NONE



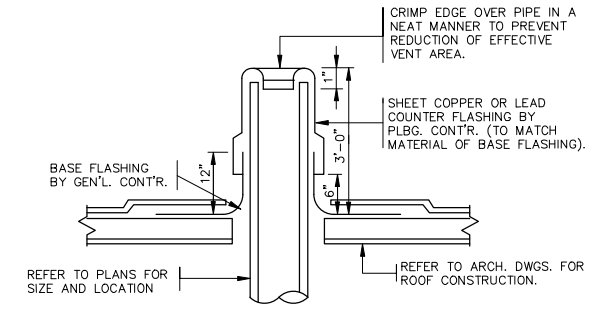
TYPICAL GAS CONNECTION TO EQUIPMENT

SCALE: NONE



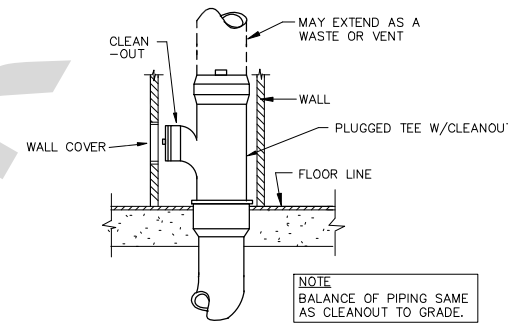
TYPICAL FLOOR CLEANOUT

SCALE: NONE



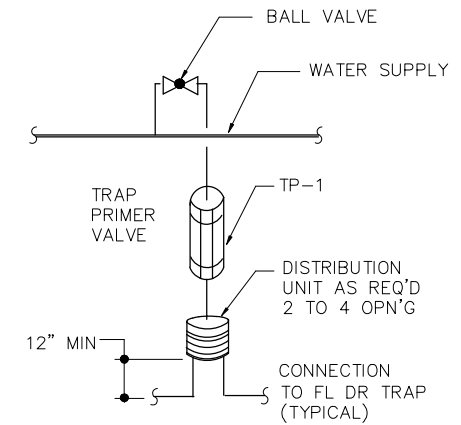
TYPICAL VENT THROUGH ROOF

SCALE: NONE



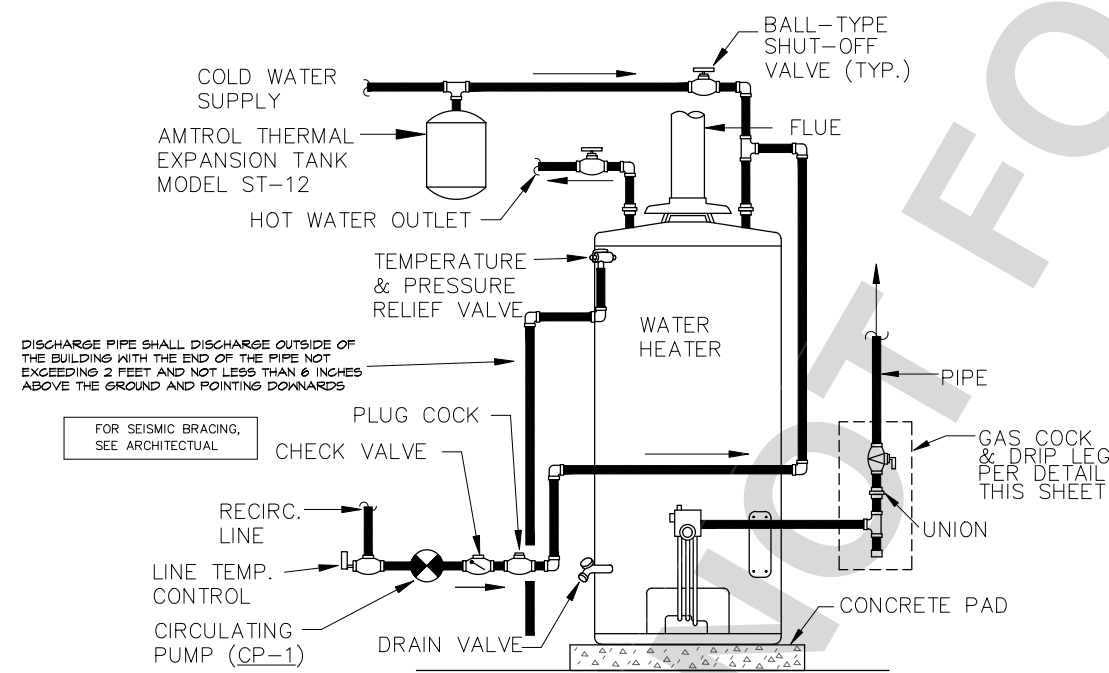
TYPICAL WALL CLEANOUT

SCALE: NONE



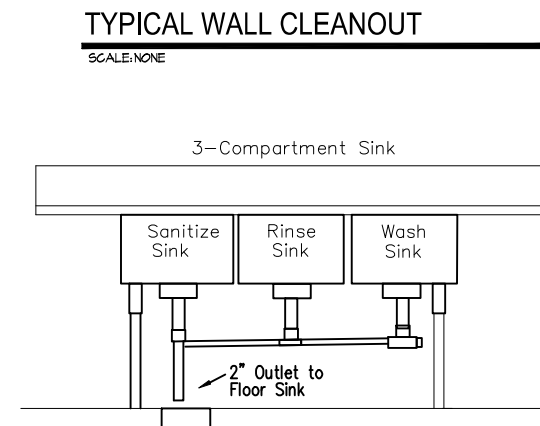
TYPICAL TRAP PRIMER DETAIL

SCALE: NONE



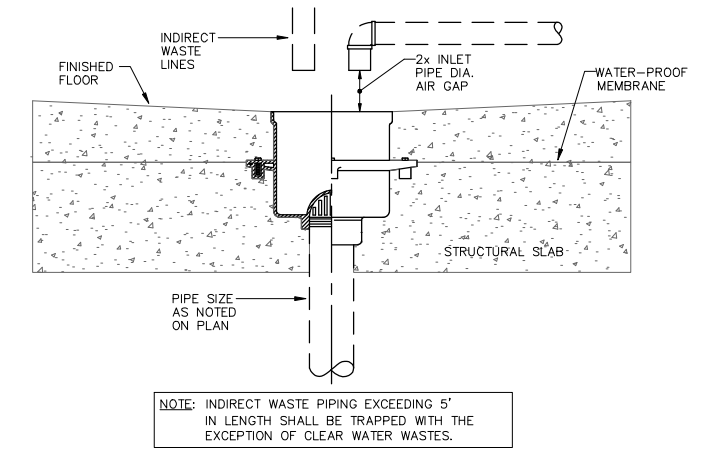
GAS WATER HEATER DETAIL (W/RECIRCULATION LOOP)

SCALE: NONE



THREE COMPARTMENT SINK

SCALE: NONE



TYPICAL FLOOR SINK

SCALE: NONE

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PLANS APPROVED BY: SAN BERNARDINO COUNTY - PUBLIC WORKS SPECIAL DISTRICTS			
David R. Doublet ASSISTANT DIRECTOR			
APPROVALS		DATE	
PROJECT MANAGER	Alfonso Fausto	INITIAL	DATE
OPS. DIVISION MANAGER	Henry Mac		
PM. DIVISION MANAGER	Noel Mondragon		

IMPROVEMENT PLANS

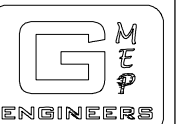
CSA 29 LUCERNE VALLEY COMMUNITY CENTER

RENOVATION PROJECT

PLUMBING

DETAILS

DWG NO.
FILE NO.
SHEET P-1.1



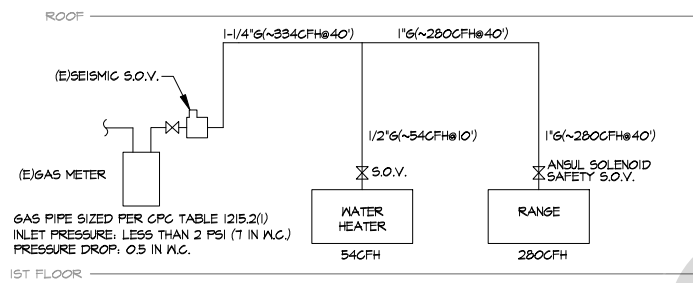
26430 Rancho Pkwy. S. Ste 120
Lake Forest, CA 92530
Tel: 949-267-9085

06-20-2024



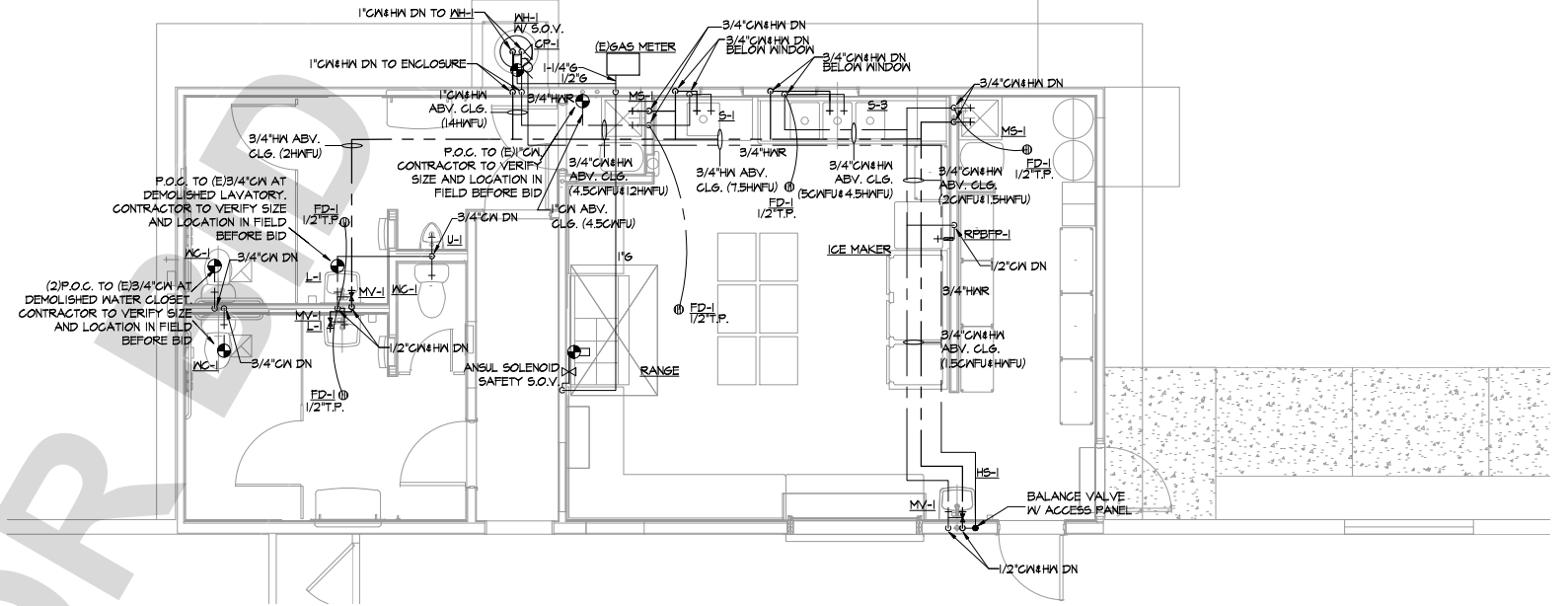
PLUMBING - KEY PLAN

SCALE: NONE



PLUMBING - GAS DIAGRAM

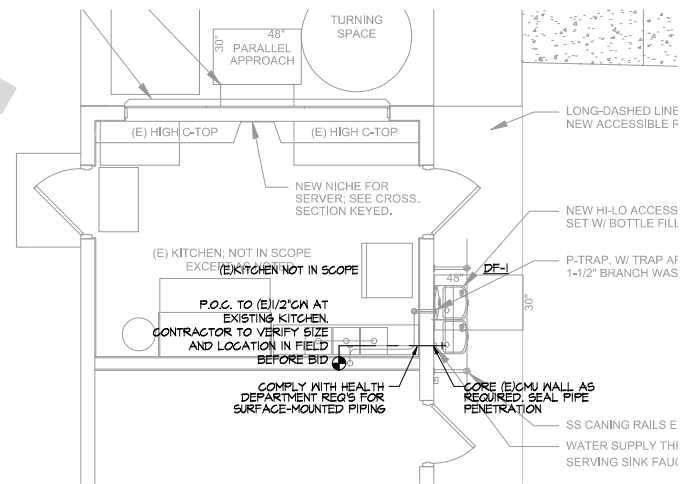
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PLUMBING - COLD/HOT WATER & GAS - PART 1

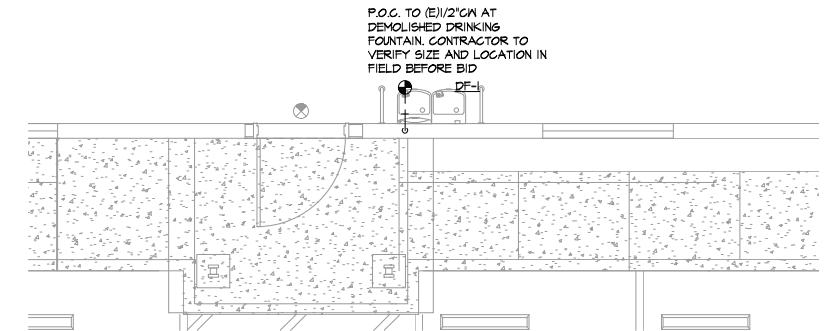
SCALE: 1/4"=1'-0"

EXISTING NON-ACCESSIBLE DRINKING FOUNTAIN ATOP PIPE. REMOVE (E) DRINKING FOUNTAIN FIXTURE FROM TOP OF PIPE; INSTALL PIPE CAP. (E) HOSE BIB ATOP PIPE TO REMAIN. W/ (E) SLAB PROVIDE VACUUM FITTING BREAKER AT H.B.



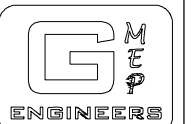
PLUMBING - COLD/HOT WATER - PART 2

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



PLUMBING - COLD/HOT WATER - PART 3

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



26430 Rancho Pkwy. S. Ste 120
Lake Forest, CA 92530
Tel: 949-267-9085

06-20-2024

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David R. Doublet
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APPROVALS	PROJECT MANAGER	INITIAL	DATE
	Alfonso Fausto		
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IMPROVEMENT PLANS

CSA 29 LUCERNE VALLEY COMMUNITY CENTER
RENOVATION PROJECT
PLUMBING
COLD/HOT WATER & GAS

DWG NO.

FILE NO.

SHEET P-2.0

GREASE TRAP SIZING				
FIXTURE TYPE	QTY	FIXTURE VALUE (GPM)	AVERAGE MULTIPLIER	TOTAL GPM
MOP SINK	2	7.5	0.5000	7.500
THREE-COMP SINK	1	43.64	0.5000	21.820
PREP SINK	1	3.75	0.5000	1.875
FLOOR DRAIN/SINK	5	1.5	0.5000	3.750
TOTAL LOAD DEMAND (GPM)				35

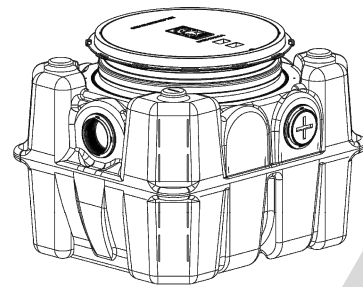
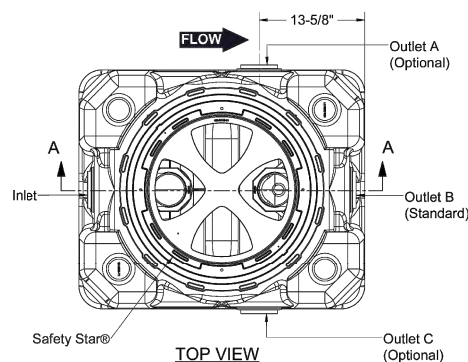


PLUMBING - KEY PLAN

SCALE: NONE

SPECIFICATIONS

- Notes:
- 4" FPT inlet/outlet with 4" plain end adapters, single inlet and triple outlet.
 - Unit weight - w/ cast iron cover: 148 lbs. (For wet weight add 542 lbs.)
 - Maximum operating temperature: 150° F continuous
 - Capacities - Liquid: 65 gal.; Grease: 439.5 lbs. (60 gal.) @50GPM Grease: 287.2 lbs. (43 gal.) @75GPM Solids: 13 gal.
 - For gravity drainage applications only.
 - Do not use for pressure applications.
 - Cover placement allows full access to tank for proper maintenance.
 - Vent not required unless per local code.
 - Engineered inlet and outlet diffusers with inspection ports are removable to inspect / clean piping.
 - Integral air relief / Anti-siphon / Sampling access.
 - Adjustable cover adapters provide up to 4" of additional height.
 - Designed for below-grade, above-grade, indoor or outdoor installations.
 - Safety Star® access restrictor built into each cover adapter, prevents accidental entry to tanks (450 lb rating).



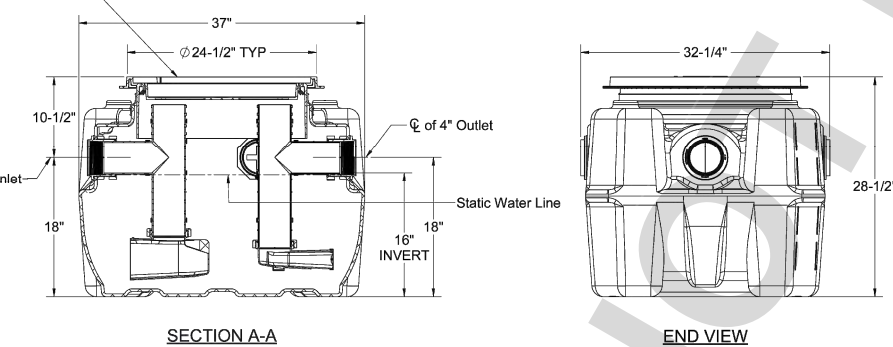
ISOMETRIC VIEW

ENGINEER SPECIFICATION GUIDE

Schier Great Basin™ grease interceptor model # GB-50 shall be lifetime guaranteed and made in USA of seamless, rotationally-molded polyethylene with minimum 3/8" uniform wall thickness. Interceptor shall be furnished for above or below-grade installation with adjustable cover adapter and three outlet options. Interceptor shall be certified to ASME A112.14.3 (Type D) and CSA B481.1. Interceptor flow rate shall be 50 GPM or 75 GPM. Interceptor grease capacity shall be 439.5 lbs. Cover shall provide water/gas-tight seal and have minimum 16,000 lbs. load capacity.

CERTIFIED PERFORMANCE
Great Basin™ hydromechanical grease interceptors are third party performance-tested and listed by IAPMO to ASME A112.14.3 and CSA B481.1 grease interceptor standards and greatly exceed requirements for grease separation and storage. They are compliant to the Uniform Plumbing Code and the International Plumbing Code.

Type D certification does not require a flow control



SECTION A-A

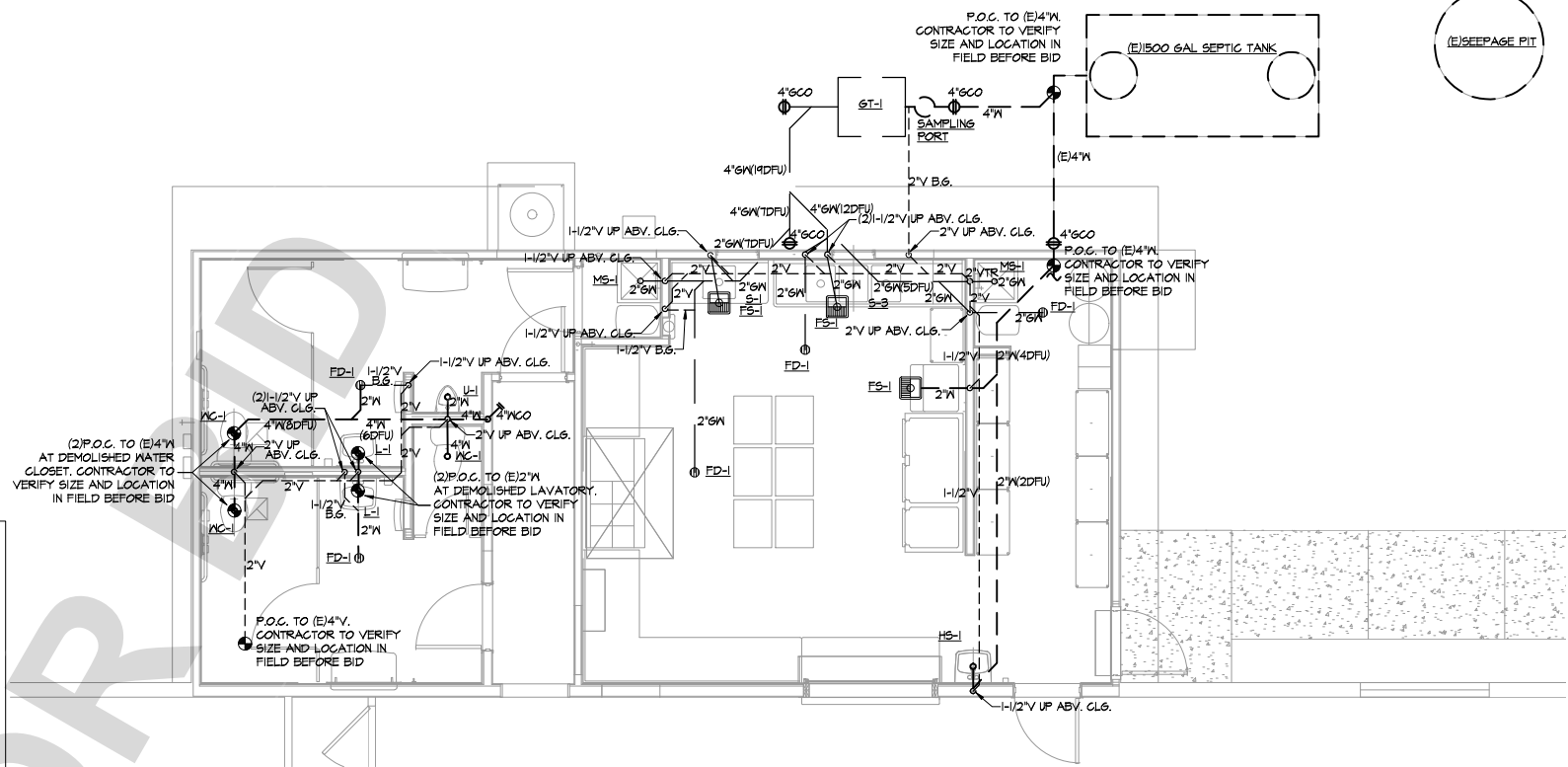
END VIEW

SPECIFICATION SHEET

MODEL NUMBER: GB-50	PART NUMBER: 4025-009-01			
DESCRIPTION: GB-50 GREASE INTERCEPTOR 50 GPM / 75 GPM, 4" INLET/OUTLET, H-20 RATED CAST IRON COVER				
DWG BY: T.ASAY DATE: 8/16/2022 REV: - EKO: -		6455 Woodland Dr Shawnee, KS 66218 Tel: 913-951-3300 Fax: 913-951-3399 schierproducts.com		

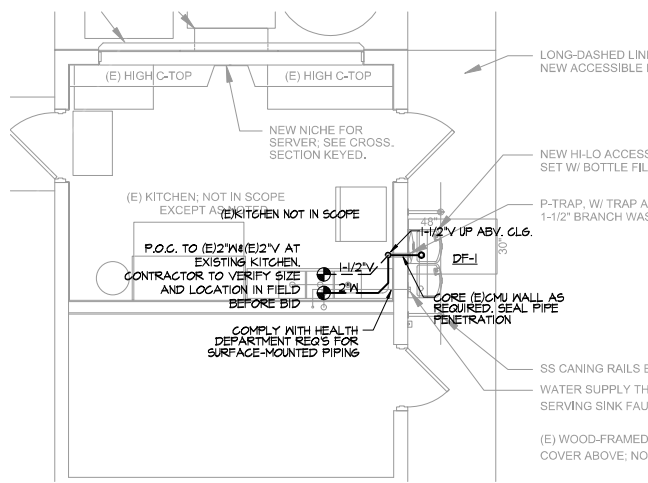
GREASE INTERCEPTOR SPECIFICATION

SCALE: NONE



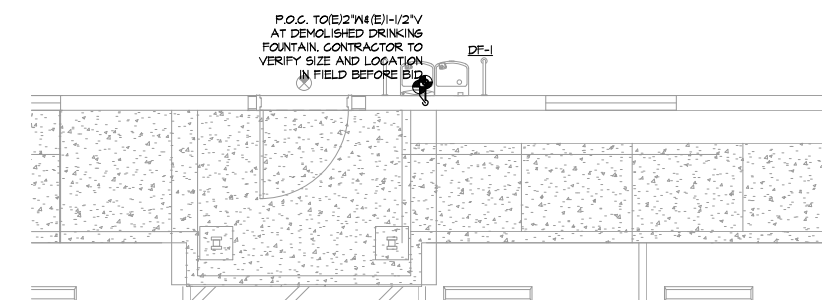
PLUMBING - WASTE & VENT - PART 1

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



PLUMBING - WASTE & VENT - PART 2

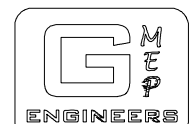
SCALE: 1/4"=1'-0"



PLUMBING - WASTE & VENT - PART 3

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

(E)SEE PAGE PIT



26430 Rancho Pkwy. S. Ste 120
 Lake Forest, CA 92530
 Tel: 949-267-9085

06-20-2024

UNDERGROUND SERVICE ALERT



BENCHMARK:

BASIS OF BEARINGS:



REVISIONS

MARK	DATE	INITIAL	DESCRIPTION	APPR.	DATE

PLANS APPROVED BY:
SAN BERNARDINO COUNTY - PUBLIC WORKS SPECIAL DISTRICTS

David R. Doublet		DATE
ASSISTANT DIRECTOR		
PROJECT MANAGER	INITIAL	DATE
OPS. DIVISION MANAGER		
PM. DIVISION MANAGER		

IMPROVEMENT PLANS

CSA 29 LUCERNE VALLEY COMMUNITY CENTER
RENOVATION PROJECT
PLUMBING
WASTE & VENT

DWG NO.

FILE NO.

SHEET P-3.0

LIGHTING FIXTURE SCHEDULE										
MARK	LEGEND	VOLT	COUNT	MOUNT	DESCRIPTION	MANUFACTURER	MODEL NUMBER	LAMPS	INPUT WATTS	NOTES
A 12.6		120	14	RECESSED	6" DOWNLIGHT	LITHONIA	WF6 LED 30K MW	LED	12.6	OR APPROVED EQUAL
B 44		120	9	SURFACE	4' VAPOR TIGHT LINEAR LED	PRIME LIGHTS	HAWKEYE T8 LINEAR LED LAMPS (2) 22W	LED	44	OR APPROVED EQUAL
WP 11		120	2	SURFACE	OUTDOOR WALL PACK	LITHONIA	TWX1 LED	LED	11	OR APPROVED EQUAL
X 4		120	2	SURFACE	LED EXIT W/ EMERGENCY LIGHTING 90 MINUTE BACKUP	LITHONIA	ECRG HO SQ M6	LED	4	OR APPROVED EQUAL

NOTES:
 1) VERIFY WITH OWNER OR ARCHITECT BEFORE PURCHASING THE LIGHTING FIXTURES.
 2) LIGHTING ABOVE FOOD OR UTENSILS SHALL BE SHATTERPROOF.

- ### ELECTRICAL WIRING METHODS
- FOR UNDERGROUND AND EXPOSED UP TO +5'-0", OR DAMP LOCATION, THE CONDUIT SHALL BE RIGID STEEL GALVANIZED IMC. NO RUNNING THREADS ARE PERMITTED.
 - GALVANIZED EMT SHALL BE USED IN DRY CONCEALED LOCATIONS AND EXPOSED ABOVE +5'-0". EMT CONNECTORS SHALL BE WATERTIGHT COMPRESSION TYPE.
 - GALVANIZED FLEXIBLE CONDUIT SHALL BE USED ONLY FOR MOTOR AND FIXTURE CONNECTIONS IN LENGTHS NOT TO EXCEED 6'.
 - CONDUITS PENETRATING THE ROOF SHALL BE FLASHED AND COUNTER FLASHED.
 - PVC SCHEDULE 40 MAY BE USED UNDER FLOOR SLABS OR UNDERGROUND WITH GROUND WIRE. PVC UNDERGROUND TO HAVE 24 INCH COVER.
 - SERVICE CONDUITS SHALL BE PVC SCHEDULE 40 OR AS SPECIFIED BY UTILITY COMPANIES.
 - INSTALL FITTINGS, SPECIAL DEVICES AND MATERIAL, WHICH MAY BE REQUIRED FOR THE PROPER INSTALLATION OF THE CONDUIT SYSTEM.
 - REFER TO NEC 300.5 FOR UNDERGROUND INSTALLATION REQUIREMENTS AND DETAILS, NEC 300.6 FOR CORROSION AND DETERIORATION AREAS.

- ### LIGHTING FIXTURE NOTES
- ALL EQUIPMENT MUST BE U.L. LISTED. NO EXCEPTION.
 - AUTO-RESETTING THERMAL PROTECTION MUST BE PROVIDED WHERE RECESSED INCANDESCENT LIGHTING FIXTURES ARE INSTALLED IN GYPSOBOARD CEILINGS.
 - PROVIDE U.L. LISTED THERMAL BARRIER WHERE LIGHTING FIXTURES IN CONTACT WITH INSULATION. OR PROVIDE 3" MINIMUM CLEARANCE.
 - WHEN LIGHTING FIXTURES ARE INSTALLED IN FIRE RATED CEILINGS OR WALLS, AN APPROVED FIRE RESISTIVE MANNER CONSISTENT WITH FIRE RATING OF CEILING OR WALLS MUST BE PROVIDED. NO EXCEPTION.
 - REFER TO LATEST ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT LIGHTING FIXTURE LOCATIONS.
 - CONFIRM WITH ARCHITECTURE FOR LIGHTING FIXTURE SPECIFICATIONS PRIOR TO ANY ORDER. NO EXCEPTION.
 - ALL FLUORESCENT LIGHTING FIXTURES MUST BE EQUIPPED WITH INTERNAL SWITCH TO DISCONNECT ALL CONDUCTORS TO BALLAST FROM THE SOURCE SIMULTANEOUSLY, INCLUDING THE GROUNDED CONDUCTOR IF ANY.
 - LIGHTING STANDARDS REQUIRE A SEPARATE PERMIT. ALL SIGN REQUIRE SEPARATE PERMITS AND APPROVALS ALSO. NO EXCEPTION.

- ### GENERAL ELECTRICAL NOTES
- VERIFY IN FIELD. ADJUST THE LOCATIONS OF HOMERUNS AND CIRCUIT NUMBERS ACCORDING TO EXISTING CONDITIONS IF NEEDED. COMMUNICATE WITH ENGINEER IF DESIGN SHOULD BE ALTERNATED. NO EXCEPTION.
 - IDENTIFY ANY OBVIOUS EXISTING CODE VIOLATIONS THAT OCCURS AS AN EXISTING CONDITION AND PROVIDE SEPARATE PRICING TO CORRECT THE CONDITION SO THAT IN THE END, THE ENTIRE ELECTRICAL INSTALLATION COMPLIES WITH THE NATIONAL ELECTRICAL CODE AND ALL OTHER LOCAL CODES.
 - IF THERE IS ANY DEVIATION FROM THE CIRCUITRY SHOWN, PROVIDE AS-BUILT DRAWINGS INDICATING SUCH.
 - AT THE COMPLETION OF CONSTRUCTION WORK, AND PRIOR TO THE FINAL REVIEW BY THE ARCHITECT, PROVIDE PANEL DIRECTORIES IN PANELBOARD FRONTS REFLECTING ALL CHANGES MADE DURING CONSTRUCTION.
 - THIS DOCUMENT IS NOT FOR BID OR CONSTRUCTION UNTIL THE PLAN HAS BEEN REVIEWED AND APPROVED BY ALL AUTHORITIES HAVING JURISDICTION AND THE PERMIT IS OBTAINED. NO COMPENSATION WILL BE MADE FOR ADDITIONAL WORK DUE TO THE VIOLATION OF THIS REQUIREMENT.



- ### CAUTION
- GMEP ENGINEERS SHALL NOT BE RESPONSIBLE FOR ANY ELECTRICAL CHANGE ORDERS THAT MAY OCCUR SHOULD FINAL BIDS AND/OR CONSTRUCTION BASED ON THESE DOCUMENTS BE STARTED PRIOR TO ELECTRICAL PLAN CHECK APPROVAL.
- ALL WORK TO COMPLY WITH THE 2022 CBC, CPC AND CMC AND THE 2022 CEC (2020 NEC) WITH STATE AND LOCAL AMENDMENTS.
- ALL EQUIPMENT SHALL BE U.L. LISTED AND INSTALLED ACCORDING TO THE LISTING.
- CONDUCTORS:**
 ALL CONDUCTORS SHALL BE COPPER AS FOLLOWS:
 #12 AWG AND SMALLER - SOLID, TW
 #10 AWG AND LARGER - STRANDED, THWN, THHN OR XHHW
 ALL CONDUCTOR SIZES ARE BASED ON 75°C TEMPERATURE RATING (CEC. 2022 TABLE 310.16)
- MOUNTING HEIGHT FOR RECEPTACLES AND CONTROL DEVICES:**
 a) THE BOTTOM OF ELECTRICAL AND COMMUNICATION RECEPTACLES INTENDED TO BE USED BY THE OCCUPANT SHALL BE LOCATED NO LESS THAN 15". [ADA ACCESSIBILITY GUIDELINES 4.27.3]
 b) RECEPTACLE OUTLETS SHALL BE LOCATED ABOVE, BUT NOT MORE THAN 20 IN. ABOVE, THE COUNTERTOP. SUGGESTION HEIGHT IS 6" [NEC 210.52.C(5)]
 c) THE TOP OF SWITCHES SHALL BE INSTALLED NOT LESS THAN 36" NOR MORE THAN 46" ABOVE THE FINISH FLOOR.
 d) THERMOSTAT CONTROLS SHALL BE LOCATED NOT LESS THAN 36" NOR MORE THAN 46" ABOVE FINISH FLOOR LINE.
- IMPORTANT BID NOTES:**
 a) DUE TO THE SMALL SCALE OF DRAWINGS, IT IS NOT ALWAYS POSSIBLE TO SHOW ALL DEVICES WHICH MAYBE REQUIRED. CONTRACTOR SHALL BE RESPONSIBLE TO VERIFY ALL EXISTING CONDITIONS BEFORE SUBMITTING HIS BID. NO ADDITIONAL COMPENSATION WILL BE MADE FOR EXTRA DUE TO CONTRACTOR'S FAILURE TO VISIT THE JOB SITE AND/OR FAILURE TO DETERMINE ALL EXISTING CONDITIONS BEFORE SUBMITTING HIS BID.
 b) REFER TO COMPLETE ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS FOR ADDITIONAL NOTES, SPECIFICATIONS, DETAILS, CONTROLS, ETC. REPORT TO ARCHITECTURE IMMEDIATELY IF ANY CONFLICTS OCCUR BETWEEN THE DRAWINGS AND INCLUDE ALL COST PER ARCHITECTURE'S CLARIFICATION IN BASE BID. THIS REQUIREMENT WILL BE STRICTLY ENFORCED. NO CHANGE ORDERS WILL BE ALLOWED IF THE CONTRACTOR FAILS TO PERFORM THIS FUNCTION.

- ### DEMOLITION NOTES
- THE DRAWINGS SHOW THE WORK TO BE IN PLACE AT THE COMPLETION OF INSTALLATION. MAKE NECESSARY ALTERATIONS TO COORDINATE AND CONNECT THE EXISTING ELECTRICAL WORK WITH THE NEW SUCH THAT, WHEN THE WORK IS DONE, THE ENTIRE ELECTRICAL INSTALLATION, EXISTING AND NEW, IS IN COMPLETE OPERATING CONDITION.
 - UNLESS SPECIFICALLY NOTED ON THE CONTRARY, ALL EXISTING LIGHTING FIXTURES, SWITCHES, CONTROLS AND OTHER MATERIALS OR EQUIPMENTS WHICH ARE REPLACED BY NEW AND ARE NOT INDICATED TO BE REUSED SHALL BE RETURNED TO THE OWNER OR BE DISPOSED AS DIRECTED BY THE OWNER.
 - EXISTING MATERIAL TO REMAIN UPON COMPLETION IS INDICATED ON DRAWINGS AS EXISTING. FEEDERS (CONDUIT AND WIRES) ARE EXISTING TO THEIR RESPECTIVE SOURCE. ALTHOUGH NOT INDICATED ON THE DRAWINGS, TEMPORARY REMOVAL OR RE-ROUTE CONDUITS AND REPLACE EXISTING WIRES WITH NEW DURING CONSTRUCTION WORK MAYBE REQUIRED.
 - PROVIDE AND INSTALL NEW COVER PLATES FOR ALL REMOVED OUTLETS, SWITCHES, LIGHT FIXTURES, AND OTHER ELECTRICAL DEVICES WHEN THE OUTLET BOX IS TO REMAIN.
 - REMOVE ALL EXISTING ABANDONED FEEDERS (CONDUITS AND WIRES) BACK TO PANEL BOARDS. LABEL NEW PANEL DIRECTORY AS "SPARE".
 - MAINTAIN CONTINUITY OF ALL ELECTRICAL SYSTEMS, EQUIPMENT, ETC., FED BY ABANDONED OUTLET. THEY SHOULD BE IN OPERATION AFTER THE WORK IS DONE. MAINTAINING CONTINUITY SHALL CONSIST OF RE-ROUTING OF CONDUIT AND WIRING, AS REQUIRED TO SUIT THE EXISTING CONDITIONS.
 - DASHED J-BOX DENOTES APPROXIMATE LOCATION OF EXISTING BOXES IN ACCESSIBLE CEILING SPACE. ALL CONDUIT SHOWN FROM J-BOX IS NEW UNLESS SHOWN OTHERWISE AS DASHED. REFER TO ELECTRICAL SYMBOL LIST.
 - EXISTING LOADS SHOWN ON PANEL SCHEDULES ARE BASED ON ASSUMPTIONS MADE BY FIELD VISIT, ELECTRICAL BILLS OR PUBLIC RESOURCES. NOTIFY ENGINEER IMMEDIATELY IF LOADS EXCEED 16 AMPS ON ANY 20A/1P CIRCUIT. NO EXCEPTION.
 - CAREFULLY REVIEW ARCHITECT'S DEMO DRAWINGS FOR LOCATION OF WALLS BEING REMOVED UNDER THIS SCOPE OF THIS WORK AND REMOVE ALL FEEDERS (CONDUITS AND WIRES) BACK TO LAST DEVICE LEFT IN SERVICE. DO NOT LEAVE ABANDONED.
 - CAREFULLY REVIEW ARCHITECT'S DEMO DRAWINGS FOR EXISTING FLOOR BOXES BEING REMOVED UNDER THIS SCOPE OF WORK. REMOVE FLOOR BOXES AND ALL FEEDERS (CONDUITS AND WIRES) BACK TO LAST DEVICE LEFT IN SERVICE. DO NOT LEAVE ABANDONED.

ELECTRICAL SYMBOL LIST	
SYMBOL	DESCRIPTION
SECTION 1. SYMBOLS FOR CONDUITS	
	HOMERUN TO PANEL OR EQUIPMENT AS NOTED
	CONDUIT RUN CONCEALED IN WALL OR ABOVE FINISHED CEILING OR AS NOTED BRANCH CIRCUIT, 2#12 IN 1/2" CONDUIT OR AS NOTED OR SYMBOLIZED AS: 1/2" C-3 #12 3/4" C-6 #12 1/2" C-4 #12 3/4" C-7 #12 3/4" C-5 #12 3/4" C-8 #12
	CONDUIT IN OR UNDER SURFACE AS NOTED, 3/4" MINIMUM SIZE.
	CONDUIT RUN WITH EQUIPMENT GROUNDING CONDUCTOR, SAME SIZE AS CIRCUIT CONDUCTORS, OR AS NOTED.
	CONDUIT RUN WITH ISOLATED GROUNDING CONDUCTOR, SAME SIZE AS CIRCUIT CONDUCTORS, OR AS NOTED.
	CONDUIT WITH EMERGENCY CIRCUIT
	EXISTING CONDUIT TO REMAIN.
	EXISTING CONDUIT TO BE REMOVED.
SECTION 2. EQUIPMENTS	
	ELECTRICAL PANELBOARD, FLUSH OR SURFACE MOUNTED AS INDICATED LETTERED BALLOON INDICATES DESIGNATION
	JUNCTION BOX, ABOVE CEILING, OR AS REQUIRED TO SUIT THE APPLICATION
	APPROXIMATE LOCATION OF EXISTING J-BOX IN ACCESSIBLE CEILING SPACE
	DATA OUTLET IN WALL +18" OR AS NOTED. SINGLE GANG OUTLET BOX WITH 3/4" CONDUIT AND PULL WIRE TO ACCESSIBLE CEILING SPACE.
	COMBINATION TELE/DATA OUTLET BOX +18" OR AS NOTED. SINGLE GANG OUTLET WITH 3/4" CONDUIT AND PULL WIRE TO ACCESSIBLE CEILING SPACE.
	WALL MOUNTED 2 HOUR BY PASS TIMER (10R# #A500 SERIES)
	EXHAUST FAN SWITCH, +48" OR AS NOTED ON MECHANICAL DRAWINGS
	EXHAUST FAN, F.B.M., WIRED BY ELECTRICAL
	FUSED DISCONNECT SWITCH, SIZE AND FUSED AS NOTED ON PLAN
	SINGLE POLE SWITCH, +42" OR AS NOTED
	WALL MOUNTED DIMMER, 1000 WATT RATING OR AS NOTED. HEIGHT MOUNTING +42" A.F.F. OR AS NOTED.
	WALL MOUNTED DIMMER W/ OCCUPANCY SENSOR, LUTRON MAESTRO OR APPROVED EQUAL, HEIGHT MOUNTING +42" A.F.F. OR AS NOTED.
SECTION 3. RECEPTACLES	
	DUPLEX RECEPTACLE FLUSH IN FLOOR BOX WITH DUPLEX HINGE COVERS
	DUPLEX RECEPTACLE IN WALL 120V, 20AMPS, +18" A.F.F., 3" ABOVE COUNTER OR AS NOTED.
	TWO-GANG DUPLEX RECEPTACLE (QUADPLEX) IN WALL, +18" A.F.F. OR AS NOTED
	GFI DUPLEX RECEPTACLE IN WALL, +42" A.F.F. OR AS NOTED
	DUPLEX RECEPTACLE (20 AMP) +18" OR AS NOTED (ON A SEPARATE CIRCUIT)
	SPECIAL RECEPTACLE NEMA TYPE AS DESIGNATED, +18" OR AS NOTED
	FLUSH POKE THRU COMBINATION TELE/DATA AND DUPLEX
	DUPLEX PLUG RECEPTACLE, 120V, 20A, SHADED SIDE INDICATES "ISOLATED GROUND" TYPE DUPLEX RECEPTACLE. 18" A.F.F., 3" ABOVE COUNTER OR AS NOTED, DEVICE TO BE "ORANGE" IN COLOR.
SECTION 4. SENSORS	
	WALL MOUNTED MOTION SENSOR (THE WAIT STOPPER "WA-300") OR EQUIVALENT.
SECTION 5. MISCELLANEOUS	
	REFERENCE TO PLAN NOTES
	CONDUIT STUBBED UP
	CONDUIT STUBBED DOWN
	DENOTES EXISTING TO REMAIN
	DENOTES NEW TO MATCH EXISTING
	DENOTES EXISTING RELOCATED DEVICE AT NEW LOCATION

UNDERGROUND SERVICE ALERT
 Call: TOLL FREE
 1-800-227-2600
 OR
 811
 TWO WORKING DAYS BEFORE YOU DIG

BENCHMARK:

BASIS OF BEARINGS:



REVISIONS					
MARK	DATE	INITIAL	DESCRIPTION	APPR.	DATE

PLANS APPROVED BY: SAN BERNARDINO COUNTY - PUBLIC WORKS SPECIAL DISTRICTS			
David R. Doublet ASSISTANT DIRECTOR		INITIAL	DATE
PROJECT MANAGER	Allonso Fausto		
OPS. DIVISION MANAGER	Henry Mac		
PM. DIVISION MANAGER	Noel Mondragon		

IMPROVEMENT PLANS		DWG NO.
CSA 29 LUCERNE VALLEY COMMUNITY CENTER RENOVATION PROJECT ELECTRICAL GENERAL NOTES & SINGLE LINE		FILE NO.
		SHEET E-1.0



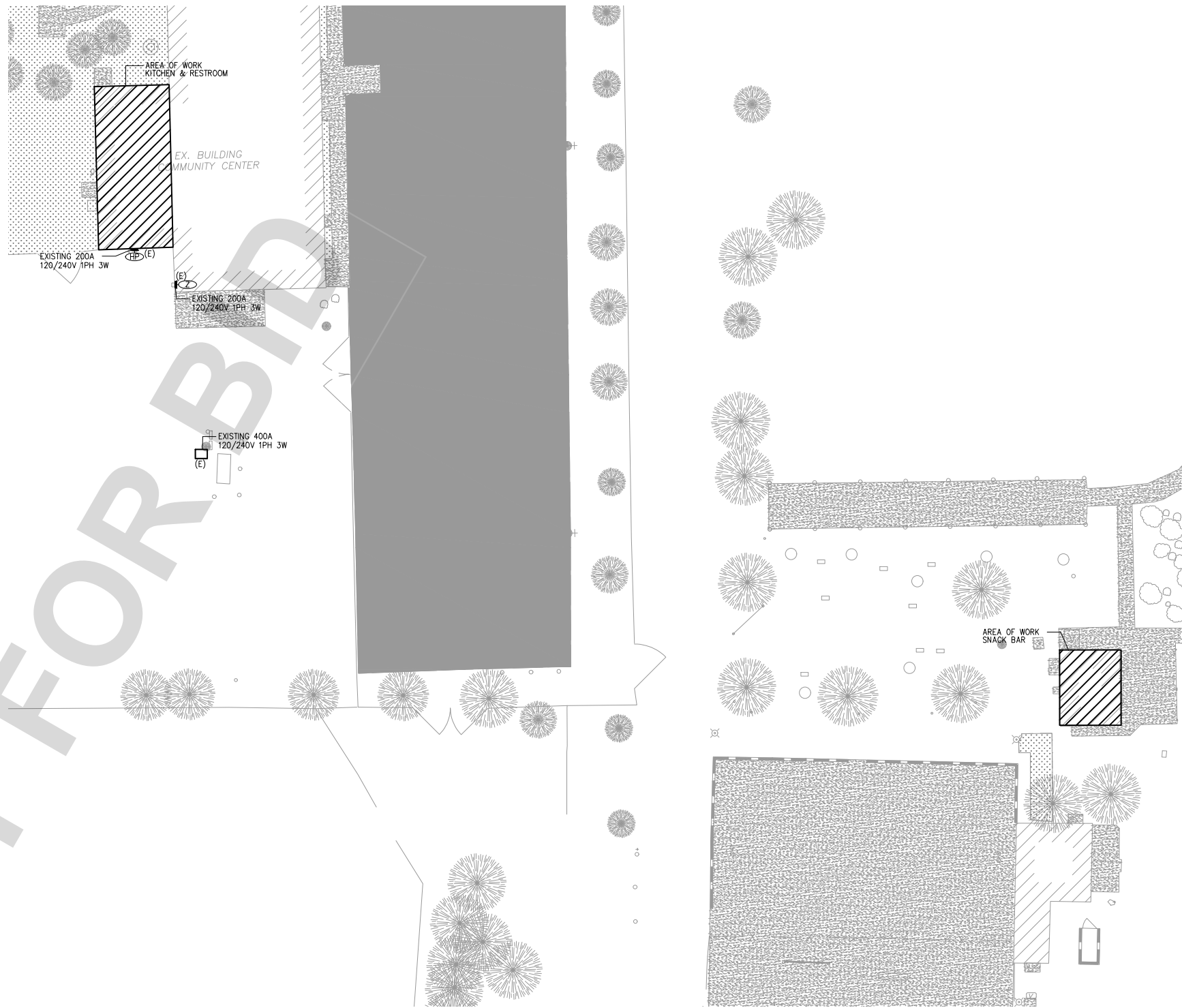
06-20-2024

SINGLE-LINE DIAGRAM GENERAL NOTES

- ALL CONDUCTORS SHALL BE COPPER AS FOLLOWS:
#12 AWG AND SMALLER - SOLID, TW
#10 AWG AND LARGER - STRANDED, THWN, THHN OR XHHW
ALL CONDUCTOR SIZES ARE BASED ON 75°C TEMPERATURE RATING (CEC 2022 TABLE 310.16)
- ALL NEW CIRCUIT BREAKERS, FUSIBLE SWITCHES IN MAINSWITCHBOARD OR PANEL BOARDS SHALL BE SERIES RATED TO MATCH EXISTING AIC RATING OR APPROVED EQUAL OR 65KAIC, UNLESS NOTED OTHERWISE.
- MOTOR CIRCUIT PROTECTORS SHALL NOT BE A PART OF A SERIES COMBINATION INTERRUPTING RATING.
- SERIES COMBINATION AIC RATING SHALL NOT BE USED WHEN THE SECONDARY EQUIPMENT IN THE SERIES IS SUBJECTED TO A TOTAL CONNECTED FULL LOAD MOTOR CURRENT OF MORE THAN 1% OF ITS AIC RATING.
- EQUIPMENT ENCLOSURES SHALL BE CLEARLY MARKED "CAUTION-SERIES RATED SYSTEM - 65KAMPS AVAILABLE, IDENTIFIED REPLACEMENT COMPONENTS REQUIRED", IN COMPLIANCE WITH 2022 CEC (2020 NEC) SECTION 110-22. END USE EQUIPMENT SHALL ALSO BE MARKED WITH THE HIGHER SERIES COMBINATION INTERRUPTING RATING AS PER 2022 CEC SECTION 240-83(C), NO EXCEPTION.
- FUSES SHALL BE PROVIDED WITH REJECTION TYPE FUSE HOLDERS.
- ELECTRICAL EQUIPMENT SHALL BE LISTED BY THE CITY, WHERE THE PROJECT IS LOCATED, RECOGNIZED ELECTRICAL TESTING LABORATORY OR APPROVED BY THE DEPARTMENT.
- NO PIPING, DUCTS OR EQUIPMENT FOREIGN TO ELECTRICAL EQUIPMENT SHALL BE PERMITTED TO BE LOCATED WITHIN THE DEDICATED SPACE ABOVE THE ELECTRICAL EQUIPMENT.
- MAIN SERVICE WILL NOT ENERGIZED PRIOR TO THE BUILDING INSPECTOR'S RECEIPT OF A THIRD PARTY "NRTL" TESTING LABORATORY PERFORMANCE TEST CERTIFICATION FOR THE SERVICE GROUND FAULT PROTECTION. 2020 NEC 230.95

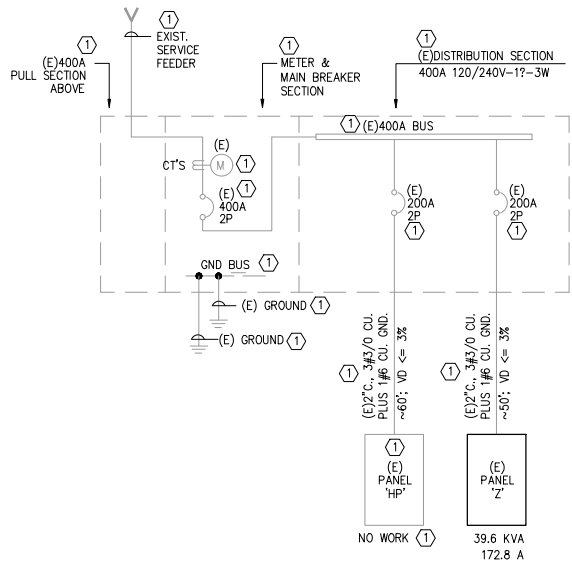
SINGLE-LINE DIAGRAM KEYED NOTES

(1) THE EQUIPMENT SHOWN IS EXISTING UNDER A PREVIOUS APPROVED CONSTRUCTION PERMIT, NOT A PART OF THIS SUBMITTAL, UNLESS NOTED AS NEW.



ELECTRICAL SITE PLAN

SCALE: 1/16" = 1'



ELECTRICAL SINGLE LINE

SCALE: NONE

(EXISTING PANEL)

DESCRIPTION	VOLT AMPS		LOCATION		OFFICE		M.L.O.		BUS RATING 200A		120/240 V 1Ø 3W		DESCRIPTION	
	VA	WB	TR	TS	TR	TS	TR	TS	VA	WB	RECESSED			
(E)CONF ROOM REC	360				20-11				2	20-1		180	(E)FLOOR RECEPT	
(E)LIGHTS NORTH		250			20-13				4	20-1		200	(E)LIGHTS SOUTH	
(E)OFFICE REC	540				20-15				6	20-1		360	(E)RECEPTS	
(E)REC NORTH CTRL RM		720			20-17				8	20-1		540	(E)RECEPTS NE	
(E)RECEPTS	360				20-19				10	20-1		360	(E)COMPUTER REC	
(E)ROOF RECEPTS		360			20-111				12	40		3600	(E)A/C	
(E)PHOTO CTRL LTG	180				15-113				14	2		3600		
(E)SUBPANEL 'Z2'		9600			100	15			16	20-1		360	(E)MAIN OFF RECEPTS	
---		9600			2	17			18	20-1		30	EXTERIOR SCUNCES	
DRINKING FOUNTAIN		180			20-119				20	20-1		600	KITCHEN+STORAGE LTG	
DRINKING FOUNTAIN	180				20-121				22	20-1		500	HOOD POWER+LTG	
HOOD CTRL PANEL		1800			20-123				24	20-1		864	AIR CURTAIN	
SPARE					20-125				26	30-1		2592	3-DOOR REFRIG	
SPARE					20-127				28	20-1		1656	EF-K1	
SPARE					20-129				30	20-1			SPARE	
SUB-TOTAL														
TOTAL CONNECTED VA	= 39572													
LCL @ 125 %	= 0													
TOTAL OTHER LOAD	= 0													
PANEL LOAD	= 39.6 KVA													
FEEDER AMPS	= 172.8 A													

NOTES:
(1) DENOTES EXISTING CIRCUIT BREAKER TO REMAIN; ALL OTHERS ARE NEW TO MATCH EXISTING.

UNDERGROUND SERVICE ALERT
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OR
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TWO WORKING DAYS BEFORE YOU DIG

BENCHMARK:

BASIS OF BEARINGS:



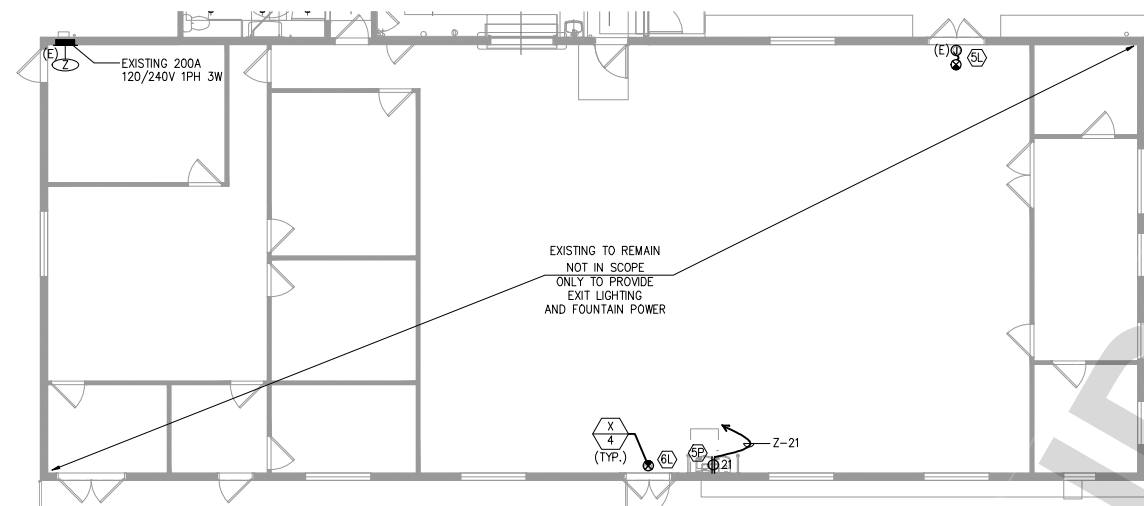
MARK	DATE	INITIAL	DESCRIPTION	APPR.	DATE

PLANS APPROVED BY:
SAN BERNARDINO COUNTY - PUBLIC WORKS
SPECIAL DISTRICTS
David R. Doublet
ASSISTANT DIRECTOR

APPROVALS	PROJECT MANAGER	INITIAL	DATE
	Alfonso Fausto		
	Henry Mac		
	Noel Mondragon		

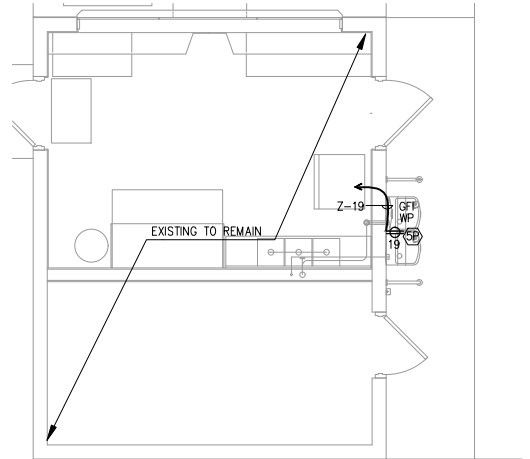
IMPROVEMENT PLANS
CSA 29 LUCERNE VALLEY COMMUNITY CENTER
RENOVATION PROJECT
ELECTRICAL SITE PLAN & SINGLE LINE
& PANEL SCHEDULE

DWG NO.
FILE NO.
SHEET **E-2.0**



ELECTRICAL LIGHTING & POWER PLAN - MULTIPURPOSE ROOM

SCALE: 1/8" = 1'



ELECTRICAL POWER PLAN - SNACK BAR

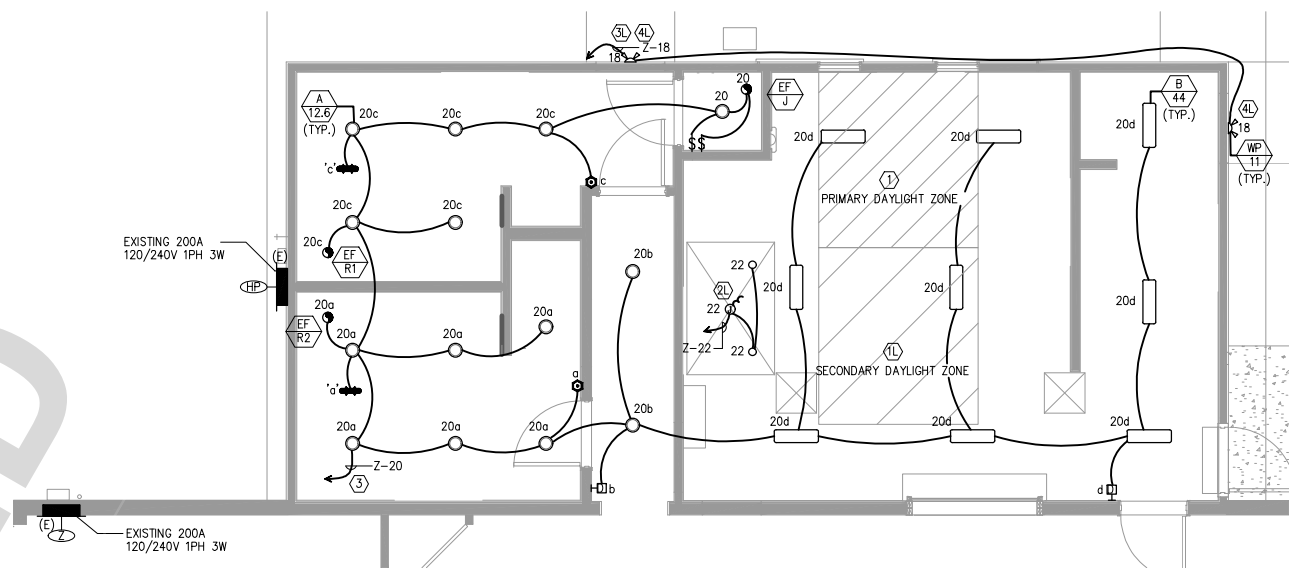
SCALE: 1/4" = 1'

GENERAL NOTES FOR KITCHEN AREA

- a) CONTRACTOR MUST REFER TO BOTH ELECTRICAL DESIGN AND KITCHEN EQUIPMENT DESIGN FROM KITCHEN EQUIPMENT CONSULTANT (K.E.C.). INCLUDE ALL WORK IN BASE BID. PAY ATTENTION TO THE ADDITIONAL WORK NOT SHOWN ON ELECTRICAL DESIGN BUT INCLUDED, SUCH AS:
 1. CONDUITS, WIRES, JUNCTION BOXES, AND RECEPTACLES IN SERVICE AND COOLING AREA COUNTERS; CONNECTIONS TO K.E.C. FURNISHED LIGHTS, SWITCHES, BALLASTS, JUNCTION BOXES AND OTHER ACCESSORIES.
 2. REFER TO K.E.C. ELECTRICAL ROUGH-IN SCHEDULE FOR CORDS, CAPS, RECEPTACLES OR OTHER MISCELLANEOUS EQUIPMENTS.
 3. REFER TO K.E.C. DRAWINGS FOR EXTENT OF WORK AND ELECTRICAL ROUGH-IN SCHEDULE TO DETERMINE THE LOCATION OF REFRIGERATION AND DRINK DISPENSING LINES. ELECTRICAL CONTRACTOR SHOULD COMPLY WITH ALL DETAILS AND INSTALLATION RECOMMENDATIONS. PROVIDE ALL ELECTRICAL DEVICES FOR A COMPLETE AND OPERATIONAL SYSTEM. NO EXCEPTION.
- b) REFER TO K.E.C. DRAWINGS FOR P.V.C. CONDUIT SLEEVES AND PULL BOXES FOR REFRIGERATION AND DRINKING DISPENSING LINES TO BE FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR. COMPLY WITH ALL DETAILS AND INSTALLATION INSTRUCTIONS AND PROVIDE ALL CONDUITS (PVC OR EMT AS REQUIRED)
- c) VERIFY EXACT LOCATION OF ALL CONNECTION POINTS FOR MECHANICAL AND PLUMBING EQUIPMENTS AND EXACT LOCATION OF CONTROL DEVICES, SUCH AS THERMOSTAT, WITH RESPECTIVE CONTRACTORS PRIOR TO INSTALLING CONDUITS.
- d) VERIFY EXACT LOCATION OF ALL CONNECTION POINTS FOR MECHANICAL AND PLUMBING EQUIPMENTS AND EXACT LOCATION OF CONTROL DEVICES, SUCH AS THERMOSTAT, WITH RESPECTIVE CONTRACTORS PRIOR TO INSTALLING CONDUITS.
- e) IN FOOD PREPARATION AREA, ALL RECEPTACLE COVERS SHALL HAVE BRUSHED STAINLESS STEEL COVERS, WIRING DEVICES SHALL BE BLACK IN COLOR.
- f) REFER TO K.E.C. DRAWING AND PROVIDE MISCELLANEOUS 120V/20A/3W GROUNDING RECEPTACLES WHERE INDICATED AND 120V/3W GROUND PLUGS WITH #12/3C SO CORD IN LENGTH AS REQUIRED BY K.E.C. PROVIDE ALL DIRECT CONNECTIONS AND CORDS/CAPS AS REQUIRED. ALL RECEPTACLES WITHIN 6" FROM SINKS SHALL BE GFI TYPE.
- g) PROVIDE CONDUIT SEALS WITH 12" OF PENETRATION FOR ALL CONDUITS ENTERING OR LEAVING WALK-IN COOLERS, FREEZERS, COLD BOXES, ETC.
- h) ALL ELECTRICAL CIRCUITS BELOW COOKING HOOD MUST HAVE AUTOMATICALLY DE-ENERGIZED UPON ACTIVATION OF FIRE SUPPRESSION SYSTEM.
- i) ELECTRICAL CONTRACTOR SHALL RUN GROUNDING WIRES TO ALL KITCHEN EQUIPMENT.
- j) THOUGH ALL KITCHEN EQUIPMENTS ARE FURNISHED BY OTHERS, ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR FINAL CONNECTIONS.
- k) ALL KITCHEN EQUIPMENT JUNCTION BOXES SHALL INCLUDE FINAL CONNECTION TO THEIR RESPECTIVE KITCHEN EQUIPMENT.
- l) VERIFY WITH EQUIPMENT'S INSTALLATION REQUIREMENT FOR EXACT LOCATION OF ELECTRICAL CONNECTIONS, TYPE OF CONNECTIONS, NEMA NUMBERS ETC. COORDINATE WITH EQUIPMENT SUPPLIER AND CONTRACTORS FOR A COMPLETE AND OPERATIONAL SYSTEM.
- m) ALL 120V RECEPTACLES IN KITCHEN AREA EQUAL OR LESS THAN 20AMPS RATING SHALL BE GFI PROTECTED. ALL GFCI DEVICES SHALL BE READILY ACCESSIBLE. NO EXCEPTION.

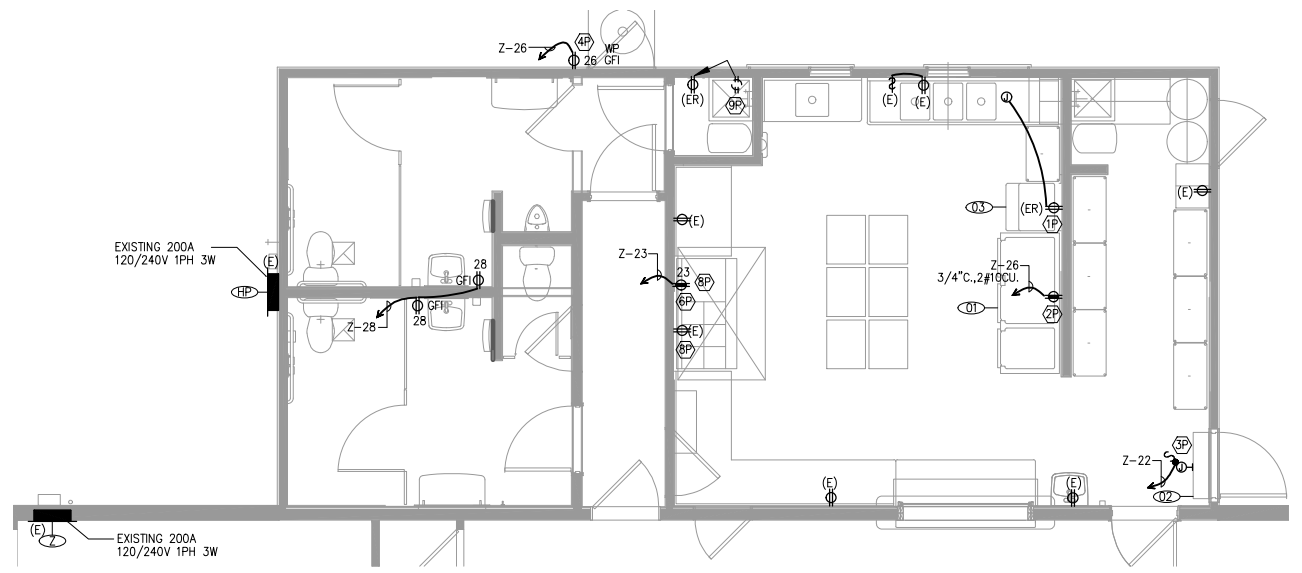
ELECTRICAL HVAC KEYED NOTES

- (1R) VERIFY EXISTING ROOF W.P. G.F.I. SERVICE RECEPTACLES IS WITHIN 25 FEET OF ROOFTOP EQUIPMENT PER CODE. NOTIFY ENGINEER IF ANY DISCREPANCY OCCURS.
- (2R) PROVIDE J-BOX WITH 20A/1P MOTOR RATED SWITCH FOR CONNECTION TO EF-K1 KITCHEN EXHAUST FAN.



ELECTRICAL LIGHTING PLAN - KITCHEN & RESTROOM

SCALE: 1/4" = 1'



ELECTRICAL POWER PLAN - KITCHEN & RESTROOM

SCALE: 1/4" = 1'

ELECTRICAL POWER KEYED NOTES

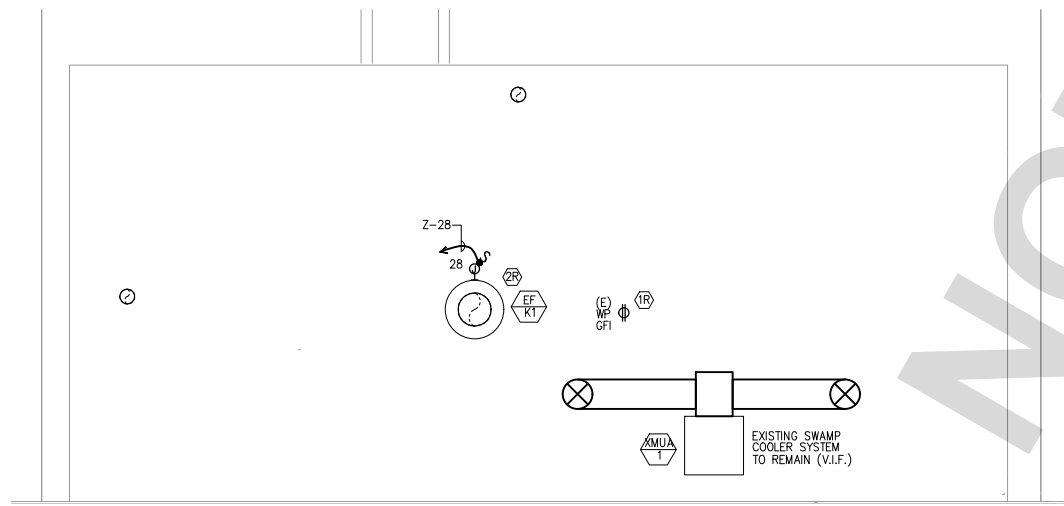
- (1P) EXISTING OUTLETS FOR EXISTING EQUIPMENT TO BE RELOCATED TO NEW LOCATION. CONTRACTOR TO MAINTAIN CIRCUITRY AS BEST AS POSSIBLE. VERIFY EXACT LOCATION AND POWER REQUIREMENTS BEFORE ROUGH IN. CLEARLY UPDATE NAME ON ELECTRICAL PANEL FOR CIRCUIT UPON COMPLETION.
- (2P) DENOTES CEILING RECEPTACLE FOR CONNECTION TO REFRIGERATOR. VERIFY WITH ARCHITECT BEFORE ROUGH IN FOR EXACT LOCATION.
- (3P) PROVIDE J-BOX WITH 20A/1P MOTOR RATED SWITCH FOR CONNECTION TO AIR CURTAIN. VERIFY EXACT POWER REQUIREMENTS BEFORE ROUGH-IN.
- (4P) PROVIDE RECEPTACLE FOR WATER HEATER IGNITION. VERIFY EXACT HEIGHT AND LOCATION BEFORE ROUGH-IN.
- (5P) PROVIDE DEDICATED OUTLET FOR CONNECTION TO DRINKING FOUNTAIN. VERIFY EXACT POWER REQUIREMENT AND LOCATION BEFORE ROUGH-IN.
- (6P) PROVIDE POWER TO HOOD CONTROL PANEL.
- (7P) EXISTING OUTLET TO BE RELOCATED TO NEW LOCATION. CONTRACTOR TO MAINTAIN CIRCUITRY AS BEST AS POSSIBLE.
- (8P) RECEPTACLES UNDERNEATH THE KITCHEN HOOD SHOULD BE SHUNT TRIP RECEPTACLES CONTROLLED BY THE ANSUL HOOD FIRE SUPPRESSION SYSTEM. AUTOMATICALLY DE-ENERGIZE THE RECEPTACLES IF THE FIRE SUPPRESSION SYSTEM IS ACTIVATED.
- (9P) RELOCATE THE EXISTING RECEPTACLE TO BE ADJACENT TO THE MOP SINK INSTEAD OF DIRECTLY ABOVE THE MOP SINK. VERIFY EXACT LOCATION PRIOR TO ROUGH-IN.

ELECTRICAL EQUIPMENT SCHEDULE

TAG	DESCRIPTION	MANUFACTURER	MODEL	POWER USAGE
01	3-SECTION FULL LENGTH REFRIGERATOR/FREEZER	TRAUlsen	RDT332NUT-FHS	115 1PH 21.6A
02	AIR DOOR	SAVE-T	AIR-PRO SERIES AP	120V 1PH 864W
03	ICE MAKER	EXISTING RELOCATED	EXISTING RELOCATED	EXISTING RELOCATED

ELECTRICAL LIGHTING KEYED NOTES

- (1L) THE TOTAL LIGHTING POWER IN THE DAYLIGHT ZONE IS LESS THAN 120WATT. PER SECTION 150 (d). NO DAYLIGHT CONTROL IS REQUIRED.
- (2L) PROVIDE J-BOX FOR EXHAUST HOOD WITH LIGHTS.
- (3L) EXTEND TIME CLOCK CONTROLLED HOT WIRE TO NEW FIXTURES AS SHOWN. VERIFY LOCATION IN FIELD BEFORE BID.
- (4L) PROVIDE POWER TO THE NEW WALL PACK LIGHTING FIXTURE VIA THE EXISTING OPEN J-BOX ON THE WALL. VERIFY THE EXACT LOCATION OF THE OPEN J-BOX PRIOR TO ROUGH IN.
- (5L) PROVIDE POWER TO THE NEW EXIT SIGN BUG LIGHT COMBO VIA THE EXISTING EMPTY J-BOX. VERIFY EXACT LOCATION PRIOR TO ROUGH IN.
- (6L) REPLACE THE EXISTING EXIT SIGN WITH A NEW EXIT SIGN BUG LIGHT COMBO. MAINTAIN EXISTING CIRCUITRY AND VERIFY EXACT LOCATION PRIOR TO ROUGH IN.



ELECTRICAL HVAC PLAN

SCALE: 1/4" = 1'

UNDERGROUND SERVICE ALERT
 Call: TOLL FREE
 1-800-227-2600
 OR
 811
 TWO WORKING DAYS BEFORE YOU DIG

BENCHMARK:

BASIS OF BEARINGS:

REGISTERED PROFESSIONAL ENGINEER
 GARY J. JACO
 No. 018959
 Exp. 12-31-2025
 State of California

DESIGN GROUP
 2800 ARKANS STREET
 RIVERSIDE, CA 92504
 www.designgroup.com

REVISIONS

MARK	DATE	INITIAL	DESCRIPTION	APPR.	DATE

PLANS APPROVED BY:
SAN BERNARDINO COUNTY - PUBLIC WORKS SPECIAL DISTRICTS
 David R. Doublet
 ASSISTANT DIRECTOR

APPROVALS:

PROJECT MANAGER	INITIAL	DATE
Alfonso Fausto		
OPS. DIVISION MANAGER		
Henry Mac		
PM. DIVISION MANAGER		
Noel Mondragon		

IMPROVEMENT PLANS
CSA 29 LUCERNE VALLEY COMMUNITY CENTER RENOVATION PROJECT
ELECTRICAL PLANS & EQUIPMENT SCHEDULE

DWG NO. _____
 FILE NO. _____
 SHEET **E-2.1**

GMEP ENGINEERS
 28430 Ramona Pkwy. S. Ste 120
 Lake Forest, CA 92530
 Tel: 949-257-9005
 06-20-2024

STATE OF CALIFORNIA
Indoor Lighting
 CALIFORNIA ENERGY COMMISSION
 CERTIFICATE OF COMPLIANCE
 Project Name: Lucerne Valley Community Center Renovation Report Page: (Page 2 of 8)
 Date Prepared: 2023-12-08 13:42:59

F. INDOOR LIGHTING FIXTURE SCHEDULE
 This table includes all permanent and portable lighting other than dwelling, unit/household room lighting. Multi-jurisdictional unit and household room lighting is documented in Table T. If using Table T to document lighting in multi-family common use areas providing shared provisions for living, eating, cooking or recreation, these luminaires are not included here.

Designated	Conditioned Spaces	01	02	03	04	05	06	07	08	09	10
Name or Item	Concrete Luminaires	Modular (Track) Fixtures	Small Aperture & Color Change	Watts per luminaire	How is Wattage determined	Total Number of luminaires	Excluded per 140.5(a)(3) / 170.2(a)(2)	Design Watts	Pass	Fail	Field Inspector
A	0" DOWNLIGHT	No	NA	12.5	Mfr. Spec.	14	No	175.8	<input type="checkbox"/>	<input type="checkbox"/>	
B	4" VAPOR TRAP LINEAR LED	No	NA	44	Mfr. Spec.	9	No	396	<input type="checkbox"/>	<input type="checkbox"/>	
Total Designated Watts: CONDITIONED SPACES 572.4											

FOOTNOTE: Design Watts for small aperture and color-changing luminaires which qualify per 140.5(a)(3) / 170.2(a)(2) is adjusted to be 75% / 80% of their rated wattage. Table F is automatically revised this adjustment. The permit applicant should enter full rated wattage in column 08.

Authority Having Jurisdiction may use for Luminaires cut sheets to confirm wattage used for compliance per 140.5(a) / 170.2(a). Wattage used must be the maximum rated for the luminaire, not the lamp.

G. MODULAR LIGHTING SYSTEMS
 This section does not apply to this project.

H. INDOOR LIGHTING CONTROLS (Not including PAFs)
 This table includes lighting controls for conditioned and unconditioned spaces.

Building Level Controls	01	02	03
Mandatory Demand Response 119.12(d)		Shut off controls 139.1(d) / 140.5(a)(4)	Field Inspector
NA - 4,000W subject to multilevel		See Area/Space Level Controls	Pass
			Fail

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 Documentation Software: Energy Code Ace
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STATE OF CALIFORNIA
Indoor Lighting
 CALIFORNIA ENERGY COMMISSION
 CERTIFICATE OF COMPLIANCE
 Project Name: Lucerne Valley Community Center Renovation Report Page: (Page 2 of 8)
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C. COMPLIANCE RESULTS
 If any cell on this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D. For guidance.

Lighting in conditioned and unconditioned spaces must not be calculated for compliance per 140.5(a)(1) / 170.2(a)	Allowed Lighting Power per 140.5(b) / 170.2(a) (Watts)					Adjusted Lighting Power per 140.5(a) / 170.2(a) (Watts)			Compliance Results
	01	02	03	04	05	06	07	08	
Complete Building	140.5(a)(1)	Area Category	Additional	140.5(a)(3) / 170.2(a)(4)	total Allowed (Watts)	Total "Net" Lighting (Watts)	Adjustments	Total Adjusted (Watts)	OS must be <= OS 140.5(a) / 170.2(a)
(See Table I)	(See Table I)	(See Table I)	(See Table I)	(See Table I)		(See Table F)	(See Table F)		
Conditioned	572.4				572.4	572.4		572.4	COMPLIES
Unconditioned									COMPLIES

Controlled Compliance (See Table Q for Details) COMPLIES
 Rated Power Reduction Compliance (See Table Q for Details) COMPLIES

D. EXCEPTIONAL CONDITIONS
 This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.

E. ADDITIONAL REMARKS
 This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.

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A. GENERAL INFORMATION

01 Project Location (City)	Lucerne Valley	04 Total Conditioned Floor Area (ft²)	845
02 Climate Zone	14	05 Total Unconditioned Floor Area (ft²)	0
03 Occupancy Types Within Project (select all that apply)		06 # of Stories (Habitable Above Grade)	1

B. PROJECT SCOPE
 This table includes only lighting systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in 140.5(a) / 170.2(a) or 141.0(a) / 160.2(a) for unconditioned spaces.

Scope of Work	Conditioned Spaces	Unconditioned Spaces
01	02	03
My Project Consists of (check all that apply):	Calculation Method	Area (ft²)
<input type="checkbox"/> New Lighting System	NA	C
<input type="checkbox"/> New Lighting System - Parking Garage	C	NA
<input type="checkbox"/> A Rerated Lighting System	Area Category	845
	Area Category Method	NA
		C

Total Area of Work (ft²) 845

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D. RATED POWER REDUCTION COMPLIANCE FOR ONE-FOR-ONE ALTERATIONS
 This section does not apply to this project.

R. 80% LIGHTING POWER FOR ALL ALTERATIONS - CONTROLS EXCEPTIONS
 This section does not apply to this project.

S. DAYLIGHT DESIGN POWER ADJUSTMENT FACTOR (DAF)
 This section does not apply to this project.

T. DWELLING UNIT LIGHTING
 This section does not apply to this project.

U. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION
 Sections have been made based on information provided in this document. If any sections have been changed by permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction, and can be found online.

Form/Title

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L. LIGHTING POWER ALLOWANCE: COMPLETE BUILDING OR AREA CATEGORY METHODS

EXEMPT	Category	01	02	03	04	05	06
YES/NO	Kitchen/ Food Preparation	0.55	293	264.8	No	No	No
	TOTALS	0.55	845	822.2			See Table L or P for Detail

I. ADDITIONAL ALLOWANCE: AREA CATEGORY METHOD QUALIFYING LIGHTING SYSTEM
 This section does not apply to this project.

K. TAILORED METHOD GENERAL LIGHTING POWER ALLOWANCES
 This section does not apply to this project.

J. ADDITIONAL LIGHTING ALLOWANCE: TAILORED WALL DISPLAY
 This section does not apply to this project.

M. ADDITIONAL LIGHTING ALLOWANCE: TAILORED FLOOR AND TASK LIGHTING
 This section does not apply to this project.

N. ADDITIONAL LIGHTING ALLOWANCE: TAILORED DECORATIVE/SPECIAL EFFECTS
 This section does not apply to this project.

O. ADDITIONAL LIGHTING ALLOWANCE: TAILORED VERY VALUABLE MERCHANDISE
 This section does not apply to this project.

P. POWER ADJUSTMENT: LIGHTING CONTROL CREDIT (POWER ADJUSTMENT FACTOR (PAF))
 This section does not apply to this project.

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STATE OF CALIFORNIA
Indoor Lighting
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 Project Name: Lucerne Valley Community Center Renovation Report Page: (Page 4 of 8)
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H. INDOOR LIGHTING CONTROLS (Not including PAFs)

Area Level Controls	01	02	03	04	05	06	07	08	09	10	11	12
Area Description	Complete Building or Area Category Primary Function Area	Manual Area Controls 130.1(a) / 160.5(b)(4)	Multi-level Controls 130.1(b) / 160.5(b)(4)	Shut-Off Controls 130.1(c) / 160.5(b)(4)	Primary/Secondary Daylighting 130.1(d) / 160.5(b)(4)	Secondary Daylighting 130.1(e) / 160.5(b)(4)	Interlocked Systems 140.6(a)(1) / 170.2(a)(2)	Field Inspector	Pass	Fail		
STORAGE	Commercial Industrial Storage Area	Ready Accessible	Dimmer	Auto. Time Switch	NA: Not daylight zone	NA: Not daylight zone	No					
RESTROOM	Restrooms	Ready Accessible	NA: Restrooms	Occupancy Sensor	NA: Not daylight zone	NA: Not daylight zone	No					
CORRIDOR	Corridor	Ready Accessible	Dimmer	Auto. Time Switch	NA: Not daylight zone	NA: Not daylight zone	No					
KITCHEN	Kitchen/ Food Preparation	Ready Accessible	Dimmer	Auto. Time Switch	Included	Included	No					

Plan Sheet Showing Daylit Zones: E-2.0

I. LIGHTING POWER ALLOWANCE: COMPLETE BUILDING OR AREA CATEGORY METHODS
 Each area complying using the Complete Building or Area Category Methods per 140.5(a) are included in this table. Column 06 indicates if additional lighting power allowances per 140.5(a) or equivalent per 140.5(a) are being used.

Conditioned Spaces	01	02	03	04	05	06
Area Description	Complete Building or Area Category Primary Function Area	Allowed Density (W/ft²)	Area (ft²)	Allowed Wattage (Watts)	Additional Allowance / Adjustment	Pass
STORAGE	Commercial Industrial Storage Area	0.4	109	43.6	No	No
RESTROOM	Restroom	0.55	292	160.8	No	No

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STATE OF CALIFORNIA
Indoor Lighting
 CALIFORNIA ENERGY COMMISSION
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 Project Name: Lucerne Valley Community Center Renovation Report Page: (Page 8 of 8)
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DOCUMENTATION AUTHOR'S DECLARATION STATEMENT
 I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Signatures:
 (Signature) 12/08/23
 Signature Date: 12/08/23
 Title: MEP Engineers
 2541 W 9th Street, Suite 100
 Lucerne Valley, CA 92556

RESPONSIBLE PERSON'S DECLARATION STATEMENT
 I certify the following under penalty of perjury under the laws of the State of California:
 1. The information provided on this Certificate of Compliance is true and correct.
 2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer).
 3. The energy features and performance conditions, materials, components, and hardware used for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
 4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
 5. I warrant that a complete copy of this Certificate of Compliance and the energy features or system design features identified on this Certificate of Compliance are provided to the enforcement agency for all applicable regulations. I understand that a complete copy of this Certificate of Compliance is required to be included with the documentation for the building permit application.

Responsible Person Signatures:
 (Signature) 12/08/23
 Signature Date: 12/08/23
 Title: MEP Engineers
 2541 W 9th Street, Suite 100
 Lucerne Valley, CA 92556

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STATE OF CALIFORNIA
Indoor Lighting
 CALIFORNIA ENERGY COMMISSION
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V. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE
 Sections have been made based on information provided in this document. If any sections have been changed by the permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and any with "A" in the form name must be completed through an Acceptance Test Technician Certification Provider (ATTN). For more information visit: <http://www.energy.ca.gov/naeac/accept/providers.html>

Form/Title

NAEAC (T-02-A) - Must be submitted for occupancy sensors and automatic time switch controls
 STORAGE, RESTROOM, CORRIDOR, KITCHEN
 NAEAC (T-02-A) - Must be submitted for automatic daylight controls
 KITCHEN

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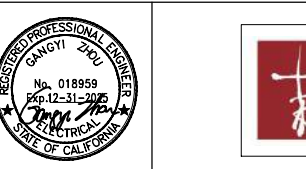
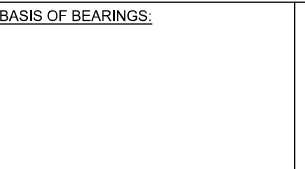
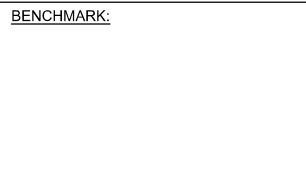
STATE OF CALIFORNIA
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 Project Name: Lucerne Valley Community Center Renovation Report Page: (Page 7 of 8)
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W. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE
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Form/Title

NAEAC (T-02-A) - Must be submitted for occupancy sensors and automatic time switch controls
 STORAGE, RESTROOM, CORRIDOR, KITCHEN
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 Schema Version: rev. 20230301
 Compliance ID: 357940-123-0023
 Report Generated: 2023-12-08 13:42:59



MARK	DATE	INITIAL	DESCRIPTION	APPR.	DATE

PLANS APPROVED BY:
 SAN BERNARDINO COUNTY - PUBLIC WORKS
 SPECIAL DISTRICTS

David R. Doublet
 ASSISTANT DIRECTOR

APPROVALS	PROJECT MANAGER	INITIAL	DATE
<input type="checkbox"/>	Alfonso Fausto		
<input type="checkbox"/>	Henry Mac		
<input type="checkbox"/>	Noel Mondragon		

IMPROVEMENT PLANS

CSA 29 LUCERNE VALLEY COMMUNITY CENTER
 RENOVATION PROJECT

ELECTRICAL T24 - INDOOR

DWG NO.	
FILE NO.	
SHEET	E-LTI



STATE OF CALIFORNIA
Outdoor Lighting
 CERTIFICATE OF COMPLIANCE
 Project Name: Lucerne Valley Community Center Renovation
 Report Page: Page 1 of 7
 Date Prepared: 2023-12-08 15:23:45-05:00

CA CALIFORNIA ENERGY COMMISSION
 NCEC-470-A

F. OUTDOOR LIGHTING FIXTURE SCHEDULE
 For new or altered lighting systems demonstrating compliance with 140.7 / 170.2(a) of new luminaires being installed and any existing luminaires remaining or being moved within the space covered by the permit application see included in the table below. For altered lighting systems using the Existing Power method per 140.7(b)(2), only new luminaires being installed and replacement luminaires being installed as part of the project scope are included in the table below. Existing luminaires remaining or existing luminaires being moved are not included. Outdoor lighting attached to multifamily buildings and controlled from the inside of a dwelling unit are not included here. All other multifamily outdoor lighting is included here.

01	02	03	04	05	06	07	08	09	10
Name or Item Tag	Complete Luminaire Description	Watts per Luminaire ^{1,2}	How it's Mounted	Total Number of Luminaires ³	Luminaire Status ⁴	Permitted per 140.7(a) / 170.2(a)(1)	Design Watts	CAEFP Req. 7 6,200 (Watt)	Field Inspector
WP	OUTDOOR WALL VSCB	11	WFL SMC	2	New	2	22	N/A - 6,200 lumens	Pass
							Total Design Watts:	22	

G. SHIELDING REQUIREMENTS (N/A)
 This section does not apply to this project.

Generated Date/Time: 2023-12-08 15:23:45-05:00
 Documentation Software: Energy Code Ace
 CA Building Energy Efficiency Standards - 2022 Residential Compliance
 Report Version: 2022.0.003
 Schema Version: rev 20230301
 Compliance ID: 157140-1223-0003
 Report Generated: 2023-12-08 15:23:45

STATE OF CALIFORNIA
Outdoor Lighting
 CERTIFICATE OF COMPLIANCE
 Project Name: Lucerne Valley Community Center Renovation
 Report Page: Page 1 of 7
 Date Prepared: 2023-12-08 15:23:45-05:00

CA CALIFORNIA ENERGY COMMISSION
 NCEC-470-A

C. COMPLIANCE RESULTS
 Results in this table are automatically calculated from data input and calculations in Tables F through H. Note: If any cell on this table says "COMPLIES with Exceptional Conditions" refer to Table D. Exceptional Conditions for guidance or see applicable Table referenced below.

Calculations of Total Allowed Lighting Power (Watts) 140.7 / 170.2(a) or 141.0(b)(2) / 180.2(b)(6)							Compliance Results		
01	02	03	04	05	06	07	08	09	10
General Handicap Allowance ¹	Per Application Sales ²	Per Application Sales ²	Per Application Sales ²	Per Application Sales ²	Per Application Sales ²	Per Application Sales ²	Per Application Sales ²	Per Application Sales ²	Per Application Sales ²
140.7(b)(2) / 170.2(a)(1)	140.7(b)(2) / 170.2(a)(1)	140.7(b)(2) / 170.2(a)(1)	140.7(b)(2) / 170.2(a)(1)	140.7(b)(2) / 170.2(a)(1)	140.7(b)(2) / 170.2(a)(1)	140.7(b)(2) / 170.2(a)(1)	140.7(b)(2) / 170.2(a)(1)	140.7(b)(2) / 170.2(a)(1)	140.7(b)(2) / 170.2(a)(1)
304.9							304.9	3	22
							Shielding Compliance (See Table G for Data):		N/A
							Controls Compliance (See Table H for Data):		COMPLIES

D. EXCEPTIONAL CONDITIONS
 This table is used to document any exceptional conditions that are not covered by the code. If any cell on this table says "COMPLIES with Exceptional Conditions" refer to Table D. Exceptional Conditions for guidance or see applicable Table referenced below.

E. ADDITIONAL REMARKS
 This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.

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 CA Building Energy Efficiency Standards - 2022 Residential Compliance
 Report Version: 2022.0.003
 Schema Version: rev 20230301
 Compliance ID: 157140-1223-0003
 Report Generated: 2023-12-08 15:23:45

STATE OF CALIFORNIA
Outdoor Lighting
 CERTIFICATE OF COMPLIANCE
 Project Name: Lucerne Valley Community Center Renovation
 Report Page: Page 1 of 7
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CA CALIFORNIA ENERGY COMMISSION
 NCEC-470-A

A. GENERAL INFORMATION

01 Project Location (City)	Lucerne Valley	04 Total Illuminated Hardscape Area (ft²)	900
02 Climate Zone	04		
03 Outdoor Lighting Zone per Title 24 Part 1.10.314 or as designated by Authority Having Jurisdiction (AHJ)		05 L2-2: Moderate - Urban Clusters	06 L2-4: High - Must be reviewed by CA Energy Commission for Approval
L2-0: Very Low - Underdeveloped Parkland		L2-3: Moderate - Urban Clusters	
L2-1: Low - Rural Areas		L2-5: Moderately High - Urban Areas	
05 Supporting Papers within Project			

B. PROJECT SCOPE
 This table includes outdoor lighting systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in 140.7 / 170.2(a) or 141.0(b)(2) / 180.2(b)(6) for alterations.

My Project Consists of:

01	02
<input checked="" type="checkbox"/> New Lighting System	Must Comply with Allowances from 140.7 / 170.2(a)
<input type="checkbox"/> Altered Lighting System	In your alteration increasing the corrected lighting load (Watt/ft²)
	04
<input type="checkbox"/> % of Existing Luminaire Being Altered ¹	Sum Total of Luminaires Being Added or Altered
<input type="checkbox"/> < 10%	<input type="checkbox"/> >= 10% and < 50%
<input type="checkbox"/> >= 50%	<input type="checkbox"/> >= 50%

Please proceed to Table F, Outdoor Lighting Fixture Schedule to define the project's luminaires.

1. ALTERNATE: % of Existing Luminaires Being Altered = (Sum Total of Luminaires Being Added or Altered / Existing Luminaires within the Scope of the Permit Application) x 100

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M. LIGHTING ALLOWANCE: PER SPECIFIC AREA
 This section does not apply to this project.

N. EXISTING CONDITIONS POWER ALLOWANCE (alterations only)
 This section does not apply to this project.

O. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION
 Sections have been made based on information provided in this document. If any section has been changed by permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and can be found online.

Form Title: _____
 Verified: _____

P. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE
 Sections have been made based on information provided in this document. If any section has been changed by permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and can be found online.

Form Title: _____
 Verified: _____

MICA-10-02-A - Must be submitted for all outdoor lighting controls except for alterations where controls are added to <= 25 luminaire.

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J. LIGHTING POWER ALLOWANCE (per 140.7 / 170.2(c))
 This table includes areas using alternative calculations per 140.7 / 170.2(c). General Handicap Allowance is per Table 140.7-A/141.0(b)(2) and "Use It or Lose It" Allowance is per Table 140.7-B/141.0(b)(2). Luminaires which alterations are being used to expand sections for later input. Luminaires that qualify for one of the "Use It or Lose It" allowances shall not qualify for another "Use It or Lose It" allowance. Outdoor lighting attached to multifamily buildings and controlled from the inside of a dwelling unit are not included here. All other multifamily outdoor lighting is included here.

Area Description	Illuminated Area (ft²)	Allowed Density (W/ft²)	Area Allowance (W/ft²)	Perimeter Length (ft)	Allowed Density (ft)	Linear Allowance (Watts)	Total Allowance (Watts)	Total General Handicap Allowance (Watts)
OUTDOOR ENTRANCE/EXIT	900	0.021	18.9	150	0.2	30	34.9	230
							Total General Handicap Allowance (Watts):	304.9

K. LIGHTING ALLOWANCE: PER APPLICATION
 This section does not apply to this project.

L. LIGHTING ALLOWANCE: SALES FRONTAGE
 This section does not apply to this project.

M. LIGHTING ALLOWANCE: ORNAMENTAL
 This section does not apply to this project.

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H. OUTDOOR LIGHTING CONTROLS
 This table demonstrates compliance with control requirements for all new or altered luminaires installed as part of the permit application. For alteration projects, luminaires which are existing to remain (ie unaltered) and luminaires which are removed or reinstated (adding only do not need to be included in this table even if they are within the spaces covered by the permit application). Outdoor lighting for sports arenas, parking garages and common areas in multifamily buildings must be documented separately from outdoor lighting attached to multifamily buildings and controlled from the inside of a dwelling unit.

Mandatory Controls for Nonresidential Occupancies, Parking Garages & Common Areas in Multifamily Buildings

Area Description	Shut-Off (100-50%)	Auto-Schedule (100-20%) / (160-50%)	Motion Sensor (100-20%) / (160-50%)	Risk-Reduction (100-50%)	Field Inspector	
					Pass	Fail
OUTDOOR ENTRANCE/EXIT	Automatically	Permitted	Not Permitted	Not Permitted	Pass	Fail

1. OUTDOOR: Shut-Off has been demonstrated, please refer to Table 140.7-A to confirm compliance with the specific light source technologies listed.

2. Authority having jurisdiction may not require controls or other documentation to confirm compliance of light source.

3. Altered luminaires marked for use in pre-rated installations, and "removed" luminaires installed in non-rated locations are exempt from 1 and 2.

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DOCUMENTATION AUTHORITY'S DECLARATION STATEMENT
 I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Authority Name: GMEP ENGINEERS
 Company: GMEP ENGINEERS
 Address: 25435 Rancho Parkway S, STE 120
 City/State/Zip: Lake Forest, CA 92550
 Phone: (949) 257-9005

Documentation Authority Signature: _____
 Signature Date: 12/08/23

RESPONSIBLE PERSON'S DECLARATION STATEMENT
 I certify the information provided in this document is true and correct to the best of my knowledge.

- The information provided on this Certificate of Compliance is true and correct.
- I am a registered professional engineer or professional architect under the State of California.
- The design and construction of the building design system design identified on this Certificate of Compliance complies with the requirements of Title 24, Part 1, and Part 3 of the California Code of Regulations.
- The building design system or system design has been developed, constructed, installed, tested, and maintained in accordance with the applicable codes, standards, and specifications.
- The building design system or system design has been developed, constructed, installed, tested, and maintained in accordance with the applicable codes, standards, and specifications.

Responsible Person Name: GMEP ENGINEERS
 Company: GMEP ENGINEERS
 Address: 25435 Rancho Parkway S, STE 120
 City/State/Zip: Lake Forest, CA 92550
 Phone: (949) 257-9005

Responsible Person Signature: _____
 Signature Date: 12/08/23

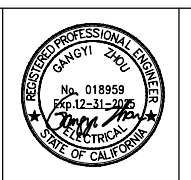
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UNDERGROUND SERVICE ALERT
 Call: TOLL FREE 1-800-227-2600 OR 811
 TWO WORKING DAYS BEFORE YOU DIG

BENCHMARK

BASIS OF BEARINGS



REVISIONS

MARK	DATE	INITIAL	DESCRIPTION	APPR.	DATE

PLANS APPROVED BY:
SAN BERNARDINO COUNTY - PUBLIC WORKS SPECIAL DISTRICTS
 David R. Doublet
 ASSISTANT DIRECTOR

APPROVALS

PROJECT MANAGER	Alfonso Fausto
OPS. DIVISION MANAGER	Henry Mac
PM. DIVISION MANAGER	Noel Mondragon

IMPROVEMENT PLANS
CSA 29 LUCERNE VALLEY COMMUNITY CENTER RENOVATION PROJECT
 ELECTRICAL T24 - OUTDOOR

DWG NO.
 FILE NO.
 SHEET **E-LTO**