

GENERAL NOTES

1.

ALL CONSTRUCTION SHALL CONFORM TO THE UNIFORM BUILDING CODE AND LOCAL CODES AND ORDINANCES
2.

DO NOT SCALE DRAWINGS, DIMENSIONS SHALL GOVERN, DETAILS SHALL GOVERN OVER PLANS AND ELEVATIONS, LARGE SCALE DETAILS SHALL GOVERN OVER SMALL SCALE DETAILS, CONTRACTOR TO REQUEST CLARIFICATION FROM DESIGNER SHOULD DIMENSION DISCREPANCIES OVER 4" OCCUR IN FIELD, NOTE: DIMENSIONS DESIGNATED 'CLEAR' SHOULD BE EXACT.
3.

COORDINATE ALL CONSTRUCTION ITEMS WITH MECHANICAL / ELECTRICAL DRAWINGS BEFORE ORDERING AND INSTALLING ITEM OR WORK.
4.

DIMENSIONS ARE TO FACE OF FINISH UNLESS OTHERWISE NOTED.
5.

ALL MATERIALS SHALL BE NEW, UNUSED AND OF THE HIGHEST QUALITY IN EVERY RESPECT UNLESS OTHERWISE NOTED. MANUFACTURED MATERIALS AND EQUIPMENT SHALL BE INSTALLED AS PER MANUFACTURER'S RECOMMENDATIONS AND INSTRUCTIONS UNLESS OTHERWISE NOTED.
6.

VERIFY LAYOUT OF ALL PARTITIONS, DOORS, ELECTRICAL/TELEPHONE/ AND COMMUNICATIONS OUTLETS, LIGHT FIXTURES, AND SWITCHES WITH THE DESIGNER IN FIELD IF QUESTIONS OR CONFLICTS OCCUR
7.

CONTRACTOR SHALL VERIFY THAT NO CONFLICTS EXIST IN LOCATIONS OF ANY AND ALL MECHANICAL, TELEPHONE/ELECTRICAL/LIGHTING/PLUMBING AND SPRINKLER EQUIPMENT (TO INCLUDE ALL PIPING, DUCTWORK, AND CONDUIT) AND THAT ALL REQUIRED CLEARANCES FOR INSTALLATION AND MAINTENANCE OF ABOVE EQUIPMENT ARE PROVIDED
8.

ALL DOORS SHALL BE 3'-0" WIDE MINIMUM UNLESS OTHERWISE NOTED.
9.

ALL HARDWARE TO BE LEVER TYPE PER UNIFORM BUILDING CODE
10.

"TYPICAL" MEANS IDENTICAL FOR ALL SIMILAR CONDITIONS UNLESS OTHERWISE NOTED.

PLANS REVIEWED SUBJECT

TO FIELD INSPECTIONS

APPLICABLE CODES

All construction drawings shall comply with the minimum requirements of the following codes effective January 1, 2020	
2019 California Building Code (CBC)	2019 California Fire Code (CFC)
2019 California Plumbing Code (CPC)	2019 Non-Residential Energy Standards (T24)
2019 California Mechanical Code (CMC)	2019 CAL Green
2019 California Electrical Code (CEC)	City Ordinances and State Laws
DESIGN CRITERIA	
Minimum Soil Bearing: 1,500 PSF Ground Snow Load: 54-SI PSF Seismic Design Category: D	Climate Zone: 11 Wind Design Speed (ASCE 7-10): Exposure Category B/C, Veloc: 110, Vseal: 85

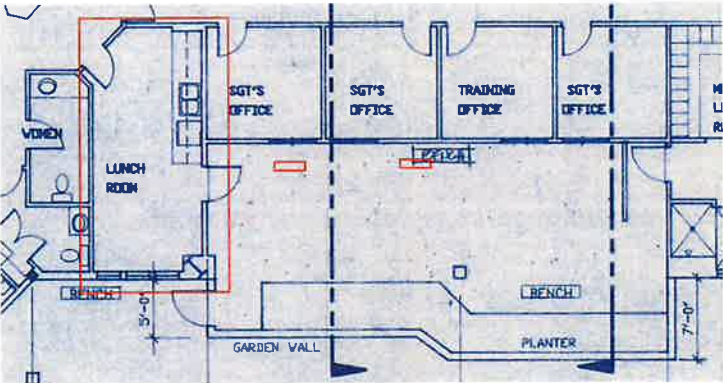
REVIEWED FOR  
CODE COMPLIANCE

PERMIT #: 22BLD-0573

BY: Jon May

Plans shall reflect the scope of work of the project. Any changes or deviations must be submitted and reviewed by the Building Department prior to inspection.

REQUIRED AT FINAL INSPECTION:  
1. Approved plans & permit card  
2. Manufacturers installation instructions/ manuals onsite  
3. Ladders in place and secured to provide access to roof and attic space  
4. Installer onsite with tools to provide access or provide all applicable panels, boxes & equipment open and accessible



KEY DIAGRAM (AREA OF WORK)  
SCALE: NOT TO SCALE

OCCUPANT LOAD AND EXITS

NO CHANGE TO ORIGINALLY PERMITTED OCCUPANT LOADS OR EXITING FROM ORIGINAL BUILDING PLANS

SHEET INDEX

- T1

TITLE SHEET
- A1

PROPOSED FLOORPLAN, DEMO PLAN, EXISTING CEILING PLAN, NOTES
- A2

INTERIOR BREAKROOM CABINET ELEVATIONS, ADA DETAILS
- E1.0

ELECTRIC POWER AND LIGHTING PLAN
- E2.0

ELECTRIC POWER PANELS
- T-24-1

TITLE 24 ENERGY REPORTS
- P1

PLUMBING PLAN AND NOTES

BUILDING DATA

CONSTRUCTION TYPE:	V- NON-RATED 2 STORY SPRINKLERED
OCCUPANCY TYPE:	B
TOTAL AREA OF BUILDING	11,785 SF (NO CHANGE)
SALLY PORT AREA	952 SF (NO CHANGE)
AREA OF KITCHEN ADA UPGRADE	169 SF
TOTAL AREA OF REMODEL	169 SF

BUILDING HAS AUTOMATIC SPRINKLERS  
BUILDING IS EQUIPPED WITH:  
A. EMERGENCY VOICE  
ALARM SIGNATURE  
SYS. VERIFY  
B. FIRE DEPT. COMM  
SYS. VERIFY  
CENTRAL CONTROL STATION  
(DISPATCH AREA)  
STANDBY POWER AND LIGHT  
(AND EMERGENCY SYSTEMS)  
EXISTING KV GENERATOR  
SEISMIC ZONE 3  
ESSENTIAL BUILDING

SCOPE OF WORK

NO CHANGE TO (E) SF, NO CHANGE TO INTERIOR OR EXT WALLS  
ADA IMPROVEMENTS ONLY AT EXISTING BREAK ROOM  
NEW ACCESSIBLE HEIGHT BREAKROOM CABINETS AND ACCESSIBLE SINK CAB  
DEMO EXISTING CEILING TILES ONLY AND LIGHTING  
NEW APPLIANCES AND COFFEE STATION  
ADD NEW ELECTRIC RANGE & DISHWASHER  
DEMO AND REPLACE EXISTING BUILT IN CABINETS PER PLAN  
(E) CEILING GRID TO REMAIN NEW DROP IN CLG. TILES AND NEW LED LIGHTING  
ADD 2 NEW WALL MOUNTED ELECT HEATERS AT EXTERIOR PATIO  
EXISTING MECHANICAL TO REMAIN  
PLUMBING FOR SINK AND DW RELOCATED PER PLUMBING PLAN

ACCESSIBILITY NOTES

THE SCOPE OF WORK OF THIS PROJECT IS LIMITED  
TO ACCESSIBILITY UPGRADES AT THE EXISTING BREAK ROOM

CONTACT INFORMATION

OWNER  
CITY OF GRASS VALLEY  
CHIEF : ALEX GAMMELGARD

DESIGN PROFESSIONAL:  
NORALYN WHISENAND, ARCHITECT  
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ELECTRICAL ENGINEER  
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HVAC DESIGN-BUILD  
BREWER REFRIGERATION HEATING AND AC  
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PLUMBING DESIGN-BUILD:  
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EMAIL: rheit.mohr@sbcglobal.net

ADA UPGRADE - TENANT IMPROVEMENT  
GVDP BREAK ROOM - ADA UPGRADES  
129 SOUTH AUBURN ST  
GRASS VALLEY, CA

Deer Creek

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ARCHITECTURE + INTERIORS  
521 NEVADA STREET  
NEVADA CITY, CA 95959  
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REVISIONS

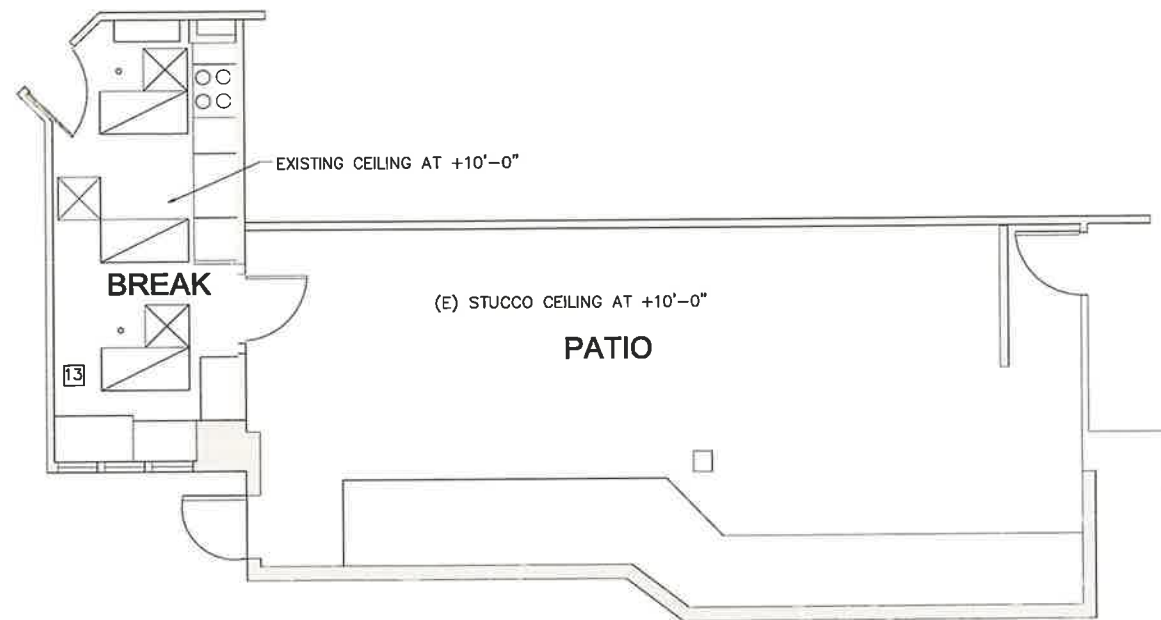
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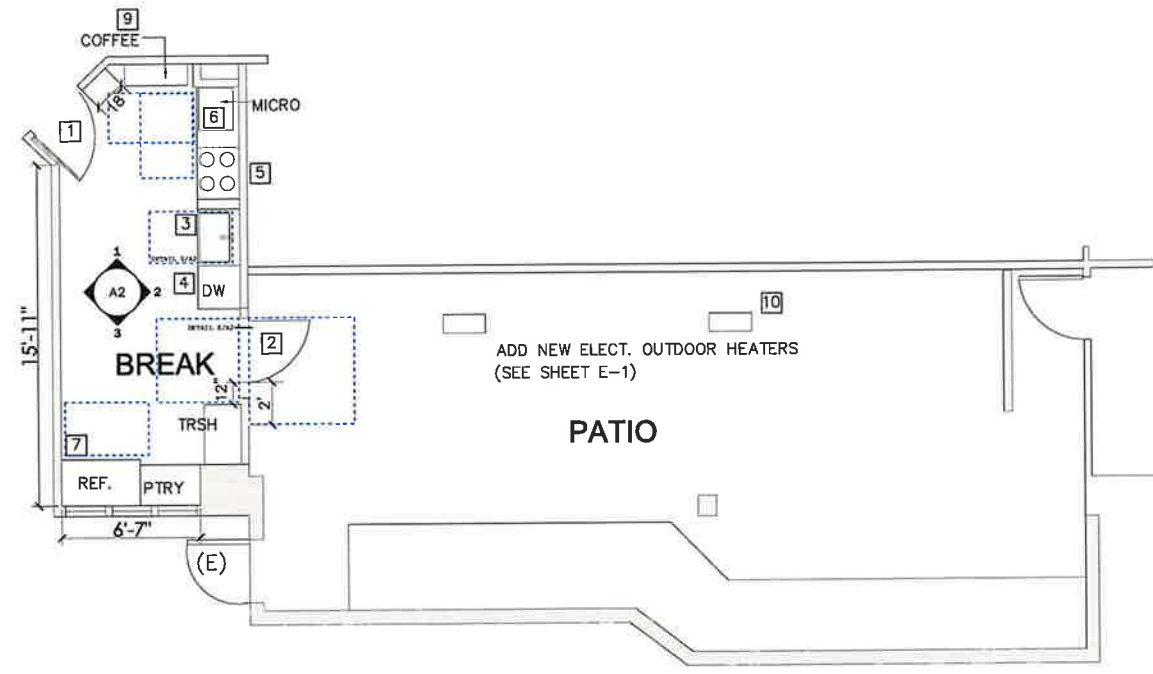
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SCALE: AS NOTED

TITLE SHEET

T1



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



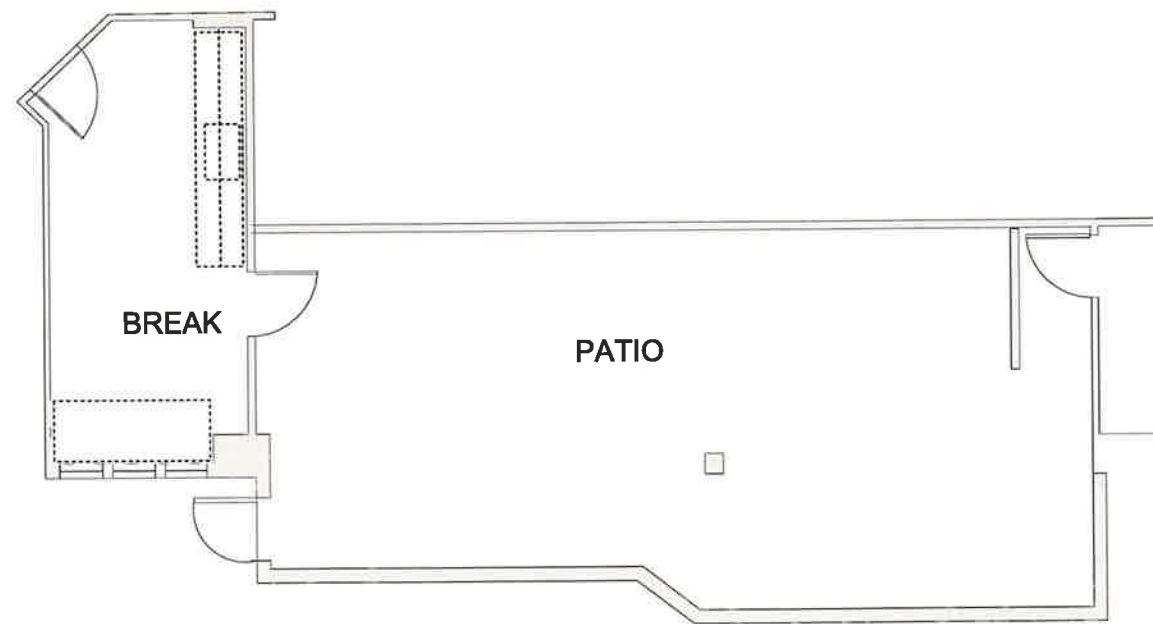
2 PROPOSED FLOOR PLAN  
SCALE: 1/4" = 1'-0"

WALL LEGEND

EXISTING WALLS  
TO REMAIN

SHEET NOTES

- 1 EXISTING 3070 SC WOOD DOOR TO REMAIN, ADA LEVER HARDWARE LATCH
- 2 EXSTING 3070 TEMPERED GLASS EXTERIOR DOOR TO PATIO TO REMAIN LATCH AND CLOSER
- 3 NEW ADA HT. COUNTER @ +34" AFF - SEE SHEET A2 FOR CABINET ELEVATIONS  
NEW SINK WITH ADA KNEESPACE, ACCESSIBLE FAUCET
- 4 NEW ADA DISHWASHER - GE GDT226SSLSS (OR EQ.)  
COUNTER AT +34"
- 5 NEW ELECTRIC RANGE WITH EXHAUST HOOD - RESIDENTIAL GRADE  
PROVIDE HOOD SWITCH AT ADA HT.
- 6 COUNTER TOP MICROWAVE OVEN- ADA ACCESSIBLE
- 7 NEW REFRIGERATOR AND BUILT-IN CABINETS - SEE A2 FOR ELEVATIONS
- 8 PAINT WALLS AND CEILINGS PER TENANTS SPECS AND COLOR SELECTIONS.
- 9 NEW COFFEE COUNTER AT +34" AFF
- 10 NEW EXTERIOR INFRA-RED HEATERS - SEE ELECTRICAL PLANS
- 11 KITCHEN FLOORING: POLISHED CONCRETE
- 11 COUNTERTOPS QUARTZ
- 12 BACKSPLASH ABOVE COUNTERTOP SUBWAY TILE FULL HEIGHT TO UPPER CABINETS
- 13 EXISTING CEILING GRID & MECHANICAL DUCTWORK TO REMAIN, NEW CEILING TILES AND LIGHTING PER ELECTRICAL PLAN



WALL LEGEND

EXISTING WALLS  
TO REMAIN

CABINETS  
TO BE DEMO'D

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

TENANT IMPROVEMENT  
**GVPD - BREAK ROOM ADA UPGRADE**  
129 SOUTH AUBURN ST  
GRASS VALLEY, CA

**Deer Creek**  
studio  
ARCHITECTURE + INTERIORS  
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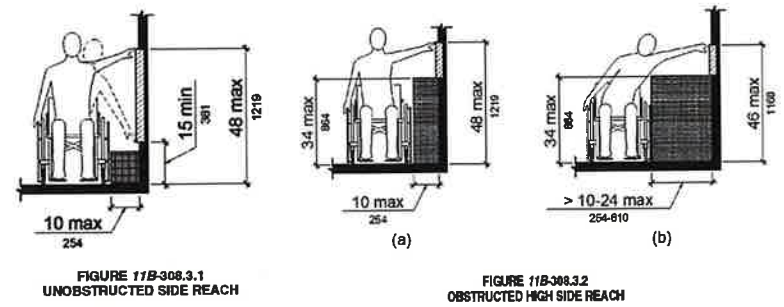
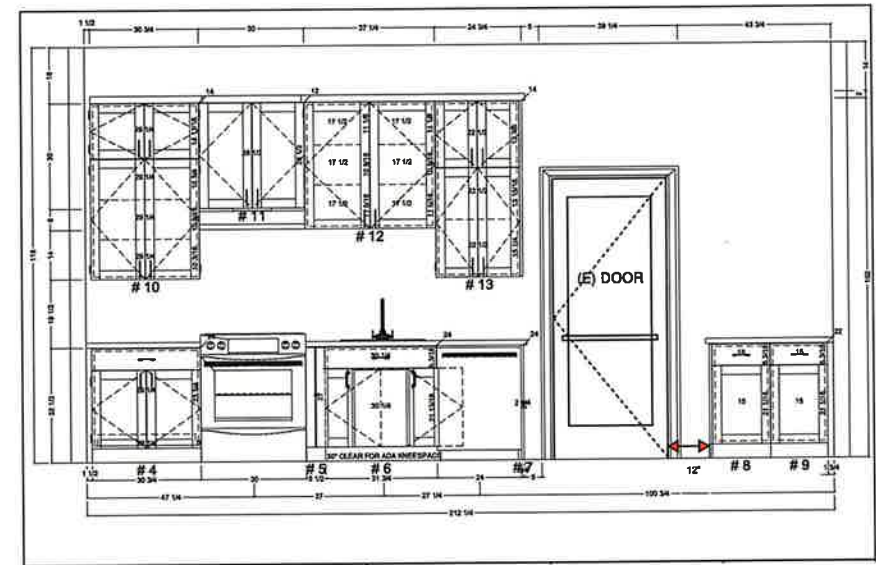
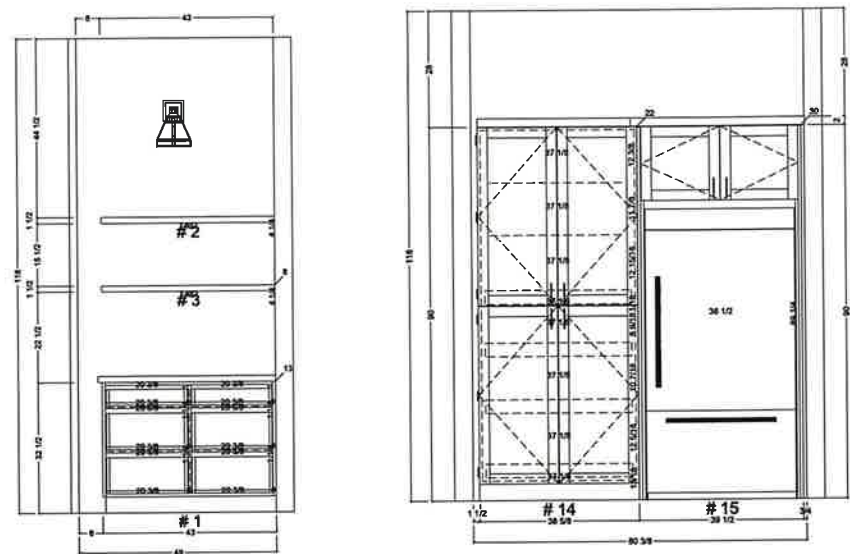
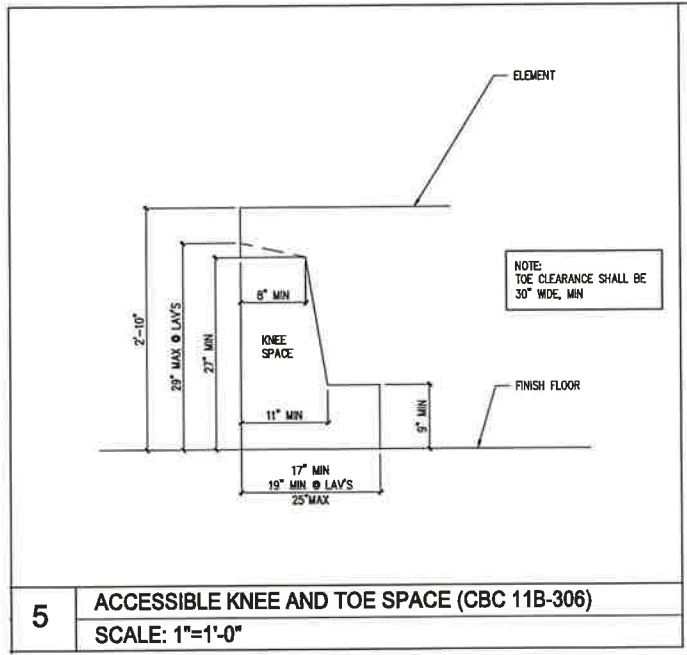
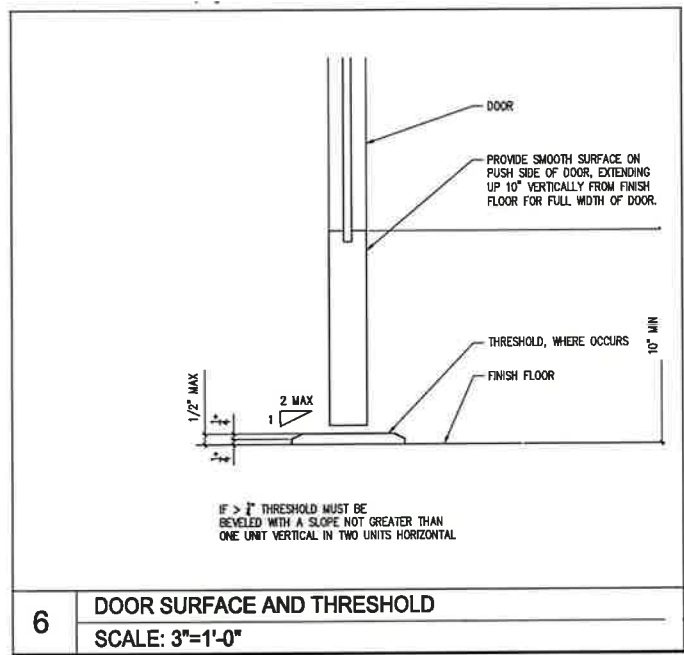
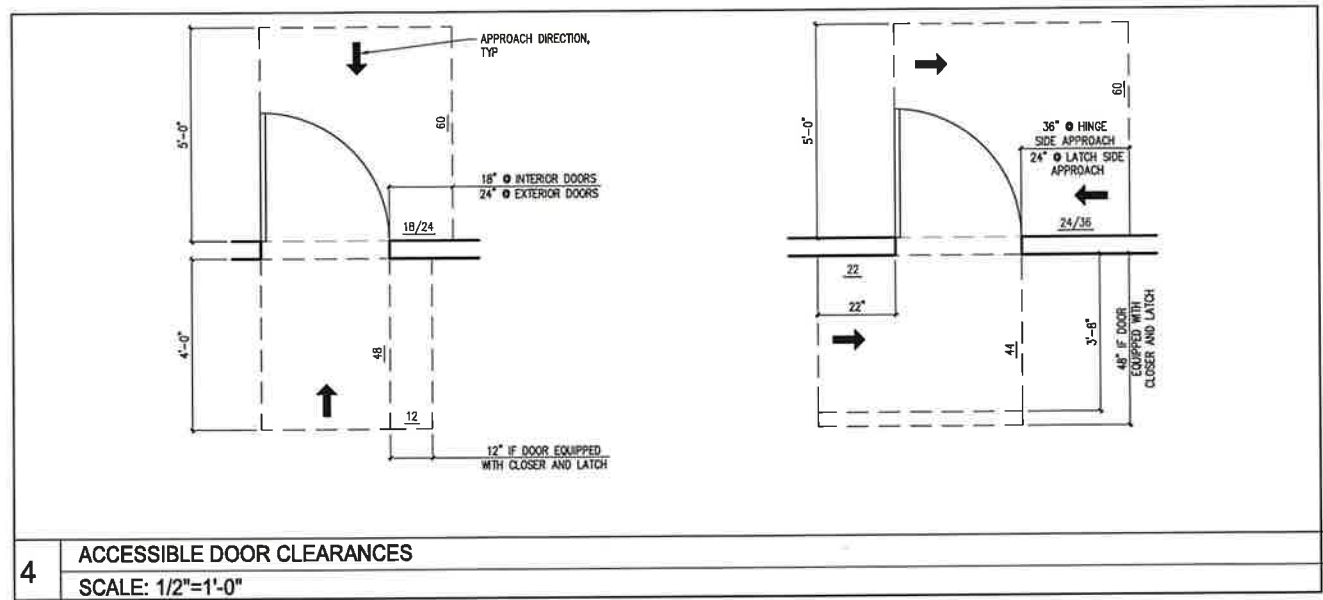
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FLOORPLAN AND DEMO PLAN

**A1**





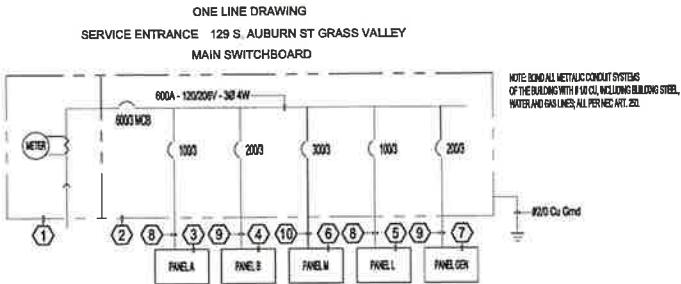
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SCALE: AS NOTED  
CABINET ELEVATIONS  
ADA DETAILS

A2



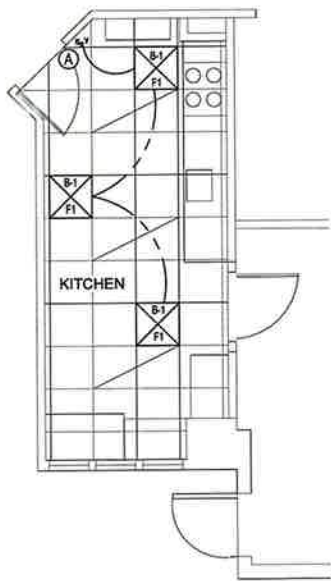
PANELS AND STRUCTURES			
SYMBOL	SIZE	STRUCTURES	REMARKS
①	600A 120/208V 1Ø	UTILITY ENTRANCE PULLSECTION	
②	600A 120/208V 3Ø	SERVICE ENTRANCE SWITCHBOARD	
③	100A 120/208V 3Ø	(E) PANEL A	#1 XHHW AL Ø & N, #6 CU GRND
④	200A 120/208V 3Ø	(E) PANEL B	(E) 200A 120/208V 3Ø N1 PANELBOARD
⑤	100A 120/208V 3Ø	(E) PANEL L	#1 XHHW AL Ø & N, #6 CU GRND
⑥	300A 120/208V 3Ø	(E) PANEL M	500kcmil XHHW AL Ø & N, #4 CU GRND
⑦	200A 120/208V 3Ø	(E) PANEL GEN	250kcmil XHHW AL Ø & N, #6 CU GRND
⑧	100A 120/208V 3Ø	(E) PANEL A, L SUBFEEDS	#1 XHHW AL Ø & N, #6 CU GRND
⑨	200A 120/208V 3Ø	(E) PANEL B, GEN SUBFEEDS	250kcmil XHHW AL Ø & N, #6 CU GRND
⑩	300A 120/208V 3Ø	(E) PANEL M SUBFEED	500kcmil XHHW AL Ø & N, #4 CU GRND

- PLANS NOTES
- PROVIDE AND INSTALL UFER GROUND FOR NEW SERVICES PER ART.250. BOND ALL METALLIC CONDUIT SYSTEMS, BUILDING STEEL AND RACEWAYS. SIZE GROUNDS PER CEC TABLE 250.66
  - PROVIDE WEATHER RATED GFCI DEVICES AND IN-USE COVERS FOR ALL 120V OUTDOOR RECEPTACLES
  - PROVIDE AND INSTALL PHOTOSENSORS FOR DAYLIGHT HARVESTING WHERE REQUIRED; AREAS WITH LESS THAN 120 WATTS OF GENERAL LIGHTING POWER IN THE PRIMARY DAYLIT ZONE ARE EXEMPT. (CEC T24 SECTION 12.1 (d) 2, EXCEPTION 1)
  - PROVIDE FUSED DISCONNECTS COMPLIANT WITH THE REQUIREMENTS OF NEC 430.102(B)(1) AND (B) (2) FOR ALL MECHANICAL EQUIPMENT. DISCONNECTS ARE TO BE LOCATED NO MORE THAN 50' AWAY AND WITHIN LINE OF SIGHT OF THE CONNECTED EQUIPMENT.
  - PROVIDE FIRE EXIT LIGHTING FIXTURES TO COMPLY WITH NFPA 101 STANDARDS REQUIRING A MINIMUM OF 90 MINUTES BACK-UP TIME, ILLUMINATING AN EXIT PATH ALONG THE PATH OF TRAVEL TO EACH EXIT TO THE PUBLIC WAY AND THE SAFE DISPERSAL AREA HAVING NO LESS THAN A 1fc AVERAGE ALONG THE PATH AND .1fc MINIMUM ALONG THE PATH. THE LIGHTING AT THE SAFE DISPERSAL AREA SHALL BE NO LESS THAN 1fc.
  - PROVIDE DEDICATED 20A CIRCUIT FOR FIRE ALARM CONTROL PANEL; USE LOCK-OUT HANDLE COVER & RED CIRCUIT BREAKER HANDLE.
  - PROVIDE CONTROLLED RECEPTACLES IN ENTRY, BREAK ROOM & OFFICE SPACES PER CEC T-24 PART 6 SEC 130.5(d)
  - PROVIDE MANDATORY LIGHTING CONTROLS IN ALL SPACES PER CEC T-24 PART 6 SEC 130.1
  - THE POWER SUPPLY FOR THE EXIT LIGHTING SHALL BE NORMALLY PROVIDED FROM THE PREMISES' ELECTRICAL SUPPLY. THE EXIT LIGHTING FIXTURES SHALL BE CAPABLE OF A MINIMUM OF 90 MINUTES EMERGENCY LIGHTING FROM INTERNAL POWER STORAGE IN ACCORDANCE WITH 2019 CBC SECTION 2702.
  - REWORK EXISTING CIRCUITS TO COMPLY WITH CURRENT CEC REQUIREMENTS FOR CONDUIT SIZING, ANCHORAGE AND STRAPPING, BOX FILL AND SIZING OF APPROPRIATE CIRCUIT CONDUCTORS. REMOVE OR ABANDON UNNEEDED OR DEFICIENT WIRING
  - ACCEPTANCE TESTING IS NOT REQUIRED IF LESS THAN 20 FIXTURES ARE CONTROLLED WITH THE NEW LIGHTING CONTROL SYSTEM (EXCEPTION 141.0(b) OF THE 2016 CALIFORNIA ENERGY CODE) IF MORE THAN 20 FIXTURES ARE INSTALLED, A CERTIFIED LIGHTING CONTROLS ACCEPTANCE TEST TECHNICIAN IS REQUIRED TO PERFORM THE TESTS SET FORTH IN THE NRCA SERIES ACCEPTANCE FORMS
  - ALL ELECTRICAL BOXES AND ENCLOSURES PENETRATING ANY CEILING OR FIRE-RATED STRUCTURE TO HAVE A MINIMUM ONE HOUR FIRE RATING
  - INSTALL SYSTEM USING FULLY RATED PANELS AND EQUIPMENT
  - ALL BRANCH CIRCUIT AND FEEDER HOME RUNS SHALL BE CLEARLY IDENTIFIED AS TO SPECIFIC PURPOSE AND USE. THIS IDENTIFICATION SHALL INCLUDE SUFFICIENT DETAIL TO ALLOW EACH CIRCUIT TO BE DISTINGUISHED FROM ALL OTHERS. THIS IDENTIFICATION SHALL BE INCLUDED IN A CIRCUIT DIRECTORY LOCATED ON THE FACE OR INTERIOR OF THE PANEL DOOR AND LOCATED ON EACH SWITCH AT A SWITCHBOARD (2019 CEC ART. 408.4)
  - ALL CIRCUIT CONDUCTORS SMALLER THAN #2 THHN TO BE COPPER, U.O.N. ALL BRANCH CIRCUITS TO BE CONSTRUCTED WITH #12 THHN CU U.O.N.
  - MAIN SWITCHBOARD SHALL BE MARKED IN THE FIELD WITH THE MAXIMUM AVAILABLE FAULT CURRENT. THE FIELD MARKING(S) SHALL INCLUDE THE DATE THE FAULT CURRENT CALCULATION WAS PERFORMED CEC 110.24(A)
  - MAIN SERVICE DISCONNECT SHALL BE MARKED PERMANENTLY CEC 230.70(B)
  - ARC FLASH WARNING LABEL ON SWBD SHALL BE PROVIDED IN ACCORD. WITH CEC 110.16
  - ALL RECEPTACLES SHALL BE LOCATED \*15" AFF MIN. TO THE BOTTOM OF THE COVER PLATE; ALL SWITCHES TO BE NO HIGHER THAN 48" AFF TO THE TOP. WINDOW SHOWCASE RECEPTACLES TO BE SPACED NO GREATER THAN 12' ON CENTER

- ELECTRIC SCOPE OF WORK
- The Electrical Contractor shall provide all labor and materials necessary for a complete and working electrical system; the system shall include but is not limited to:
    - Transformers, Feeders and Panels: -Install transformers, service feeders and panels with appropriate circuit protective devices.
    - Lighting system, Title 24 compliant, including automated control devices, fixtures and lamps. The lighting system shall provide minimum lighting levels for areas served (e.g. warehouse, manufacturing, offices, reception area, etc.)
    - Refrigeration / Freezer circuits, including fused disconnects, fixtures and line voltage control wiring. Not to include equipment, low voltage or case assembly.
    - HVAC circuits, including fused disconnects, per HVAC contractor's requirements. Not to include equipment, machine interconnection or thermostat cabling.
    - General use circuits to include branch circuits for computer terminals and non-specific outlets. Circuits shall be dedicated when used to serve phone switches, computer servers, copiers and specified equipment.
    - Lighting Controls System to include fully functional, Title 24 – part 6 compliant lighting harvesting. Include all necessary components for dimming, vacancy control and daylight harvesting. Include all necessary acceptance testing inspections & NRCC installation forms.
  - The electrical system shall include:
    - Full conduit system. EMT, PVC Schedule 40 conduit, flex or bx cabling shall be used throughout. All exposed conduits shall be run plumb, true and at right angles to the building lines.
    - Conductors to be copper, 12awg minimum, excepting feeder conductors larger than #4 AWG.
    - Specification grade devices.
  - All materials shall be new and free of defects.
  - Upon completion, provide a detailed "as-built" plans to the owner.
  - Upon completion, provide product manuals and instruction as to the correct use, function and maintenance of each system and device.
  - All work to be minimally invasive to other tenancies. Collect refuse daily and store materials so as to not interfere with other areas of construction.
  - Coordinate work with other trades; advise plans or field conflicts to the General Contractor or Architect as they become known and before proceeding with construction.
  - Work not to include: Floor cutting and patching, coring, repair to existing interior wall finishes.
  - Work not to include: Low voltage cabling including, but not limited to: Phone, Computer Networking or CATV.
  - The General Contractor is to maintain jobsite sanitary facilities and a garbage container suitable for construction debris. The Electrical Contractor shall keep his portion of the jobsite neat and orderly. All refuse is to be placed in the container at the end of each business day.
  - Excluded from this scope: Grass Valley Building Dept. permits, fees and inspections

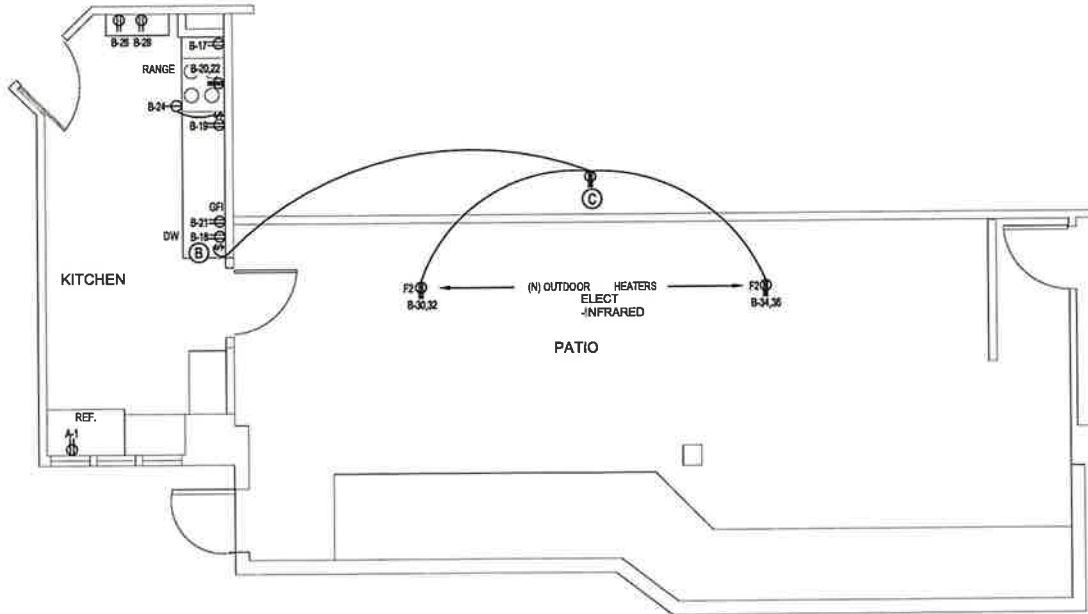
FIXTURE & HEATER SCHEDULE						
Qty	Type	Manufacturer	Catalog	Wattage	Mount/Weight	T24
3	F1	Hubbell	LCAT-22-LW-G-ED-U	23w	Troffer	Y
2	F2	Infratech	WD 5024 SS	5,000w	Ceiling	NA

LIGHTING & HEATER CONTROLS SCHEDULE				
Qty	Unit	Manufacture	Catalog	Remarks
1	Ⓐ	Vacancy 0-10 Dimmer	Lutron	MSZ-101-V-WH Wallbox Mount
1	Ⓑ	Heater Control	Infratech	30-4046-WH Manuf. Backbox
1	Ⓒ	Solid State Relay Panel	Infratech	30-4052 Remote Mount



## ELECTRIC LIGHTING PLAN

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



## ELECTRIC POWER PLAN

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

General Notes	
LEGEND	
LCC	LIGHTING CONTROL CAST
⊕	LIGHT FIXTURE
⊕	EXIT LIGHT W/ EMERG HEAD
⊕	EMERGENCY FIXTURE
⊕	RECESS LIGHT FIXTURE
⊕	TRACK FIXTURE
⊕	TROFFER
⊕	SWITCH
⊕	SWITCH, VACANCY
⊕	SWITCH DIGITAL DIMMER
⊕	SWITCH DIMMER
⊕	POWER PACK
⊕	RELAY
⊕	LIGHTING CONTROLLER
⊕	OCCUPANCY SENSOR
⊕	PHOTO SENSOR
⊕	DUPLEX RECEPTACLE, NEMA 5-20
⊕	DUPLEX RECEPTACLE CONTROLLED
⊕	DUPLEX RECEPTACLE, GFI
⊕	DUPLEX RECEPTACLE, FLOOR
⊕	DUPLEX RECEPTACLE SPLIT CONTROLLED
⊕	RECEPTACLE, ANSI SPECIAL
⊕	RECEPTACLE, SINGLEPLEX
⊕	RECEPTACLE, LOW VOLTAGE
⊕	DISCONNECT, FUSED

### NOTES:



No.	Revision/Issue	Date

**Grass Valley Electric**  
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Fax: (530) 273-3450  
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Lic. #342506  
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Grass Valley, California 95945

Project Name and Address:  
**GV POLICE DEPT. BREAK RM.**  
129 S. AUBURN ST.  
GRASS VALLEY, CA 95945

Project No.	Sheet
Date	ELECTRIC POWER PLANS
8-09-2022	ELECTRIC LIGHTING PLANS
Scale	<b>E1.0</b>
1/4"=1'-0"	



LOAD CALCULATIONS FOR - MAIN SWITCHBOARD				
BASED ON THE 2017 NEC				
CALCULATED LOAD (NEC 215.3)	L1 33,818 VA	L2 34,220 VA	L3 29,074 VA	NEC 220.81(A) NEUTRAL 34,220 VA
CALCULATED LOAD WITH DEMAND FACTORS (NEC 215.3)				
GENERAL LOAD	18,500 VA	21,860 VA	12,978 VA	21,660 VA
RECEPTACLE LOAD (NEC TABLE 220.4)				
1ST 10,000W	0 VA	0 VA	0 VA	0 VA
CONTINUOUS LOAD (NEC 215.2)	4,678 VA	2,750 VA	1,728 VA	2,750 VA
PLUS 25% (L1, L2, L3)	1,170 VA	068 VA	432 VA	0 VA
PLUS 0% (NEUTRAL) (NEC 215.2A) EX NO 2				
MOTOR LOAD (NEC 430.24)	10,560 VA	8,810 VA	14,370 VA	8,810 VA
PLUS 25% OF LARGEST MOTOR	1,140 VA	1,140 VA	1,140 VA	1,140 VA
KITCHEN LOADS (NEC 220.58)				
L1 (0 X 1) =	0 VA			0 VA
L2 (0 X 1) =		0 VA		
L3 (0 X 1) =			0 VA	
TOTAL BALANCED LOAD (3-PHASE)	30,646 VA	30,646 VA	30,646 VA	
TOTAL BALANCED LOAD (1-PHASE)	5,402 VA	5,402 VA	0 VA	
TOTAL UNBALANCED LOAD (1-PHASE)	80 VA	0 VA	0 VA	35,360 VA
LINE AMPS BALANCED (3-PHASE)	221.2 A	221.2 A	221.2 A	
LINE AMPS BALANCED (1-PHASE)	46.0 A	45.0 A	0.0 A	
LINE AMPS UNBALANCED (1-PHASE)	0.7 A	0.0 A	0.0 A	294.7 A
TOTALS	268.9 A	266.2 A	221.2 A	294.7 A
ADJUSTMENT FACTOR	0.0 A	0.0 A	0.0 A	
TOTAL DESIGN LOAD	268.9 A	266.2 A	221.2 A	294.7 A
HARMONIC CURRENT CALCULATION (NEC 310.15 (B) 4 (C) & NEC TABLE 310.15 (2) A)				
(Harmonic Load 0 VA = Connected Load 97,112 VA) X 100 = 0 %				
Harmonic Load Does Not Exceed 50%				
FAULT CURRENT CALCULATIONS				
Available Fault Current at Starting Point (144,903 AFC x 1.00 UA) = 418 MC = 45,319 AFC				
Conductor Factor CF - Formula (1.732 x 100 L x 45,319 AFC) / (22,165 C x 1 N x 240 V) = 1.474 CF				
Conductor Multiplier CM - Formula (1.1) x 1.1 = 1.21 CM				
Conductor Let-Through Current CLC - Formula (45,319 AFC x 0.404 CM) = 18,309 CLC				
A - Amps				
AFC - Available Fault Current				
C - Conductor Constant				
CF - Conductor Factor				
CLC - Conductor Let-Through Current				
CM - Conductor Multiplier				
L - Length of Conductor				
MC - Motor Contribution				
N - Number of Conductors Per Phase				
SV - Secondary Voltage				
UA - Utility Adjustment				
VA - Volt Amps				
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## General Notes

## LEGEND

- LCC LIGHTING CONTROL CABT
- ⊕ LIGHT FIXTURE
- ⊕ EXIT LIGHT W/ EMERG HEAD
- ⊕ EMERGENCY FIXTURE
- ⊕ RECESS LIGHT FIXTURE
- ⊕ TRACK FIXTURE
- ⊕ TROFFER
- ⊕ SWITCH
- ⊕ SWITCH VACANCY
- ⊕ SWITCH DIGITAL DIMMER
- ⊕ SWITCH DIMMER
- ⊕ POWER PACK
- ⊕ RELAY
- ⊕ LIGHTING CONTROLLER
- ⊕ OCCUPANCY SENSOR
- ⊕ PHOTO SENSOR
- ⊕ DUPLEX RECEPTACLE, NEMA 5-20
- ⊕ DUPLEX RECEPTACLE CONTROLLED
- ⊕ DUPLEX RECEPTACLE, GF
- ⊕ DUPLEX RECEPTACLE, FLOOR
- ⊕ DUPLEX RECEPTACLE SPLIT CONTROLLED
- ⊕ RECEPTACLE, ANSI SPECIAL
- ⊕ RECEPTACLE, SINGLEPLEX
- ⊕ RECEPTACLE, LOW VOLTAGE
- ⊕ DISCONNECT, FUSED

## NOTES:



No. Revision/Issue Date

## Grass Valley Electric

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bradypryor@abcglobal.net

Lic. #392506  
10075 Rough & Ready Hwy  
Grass Valley, California 95945

Project Name and Address:

GV POLICE DEPT. BREAK RM.  
129 S. AUBURN ST.  
GRASS VALLEY, CA 95945

Project No. Sheet  
8-09-2022 ELECTRIC POWER PANELS  
Scale N/A E2.0

LOAD CALCULATIONS FOR "PANEL B"				
BASED ON THE 2017 NEC				
CALCULATED LOAD (NEC 215.3)	L1 12,158 VA	L2 12,820 VA	L3 11,344 VA	NEC 220.81(A) NEUTRAL 12,820 VA
CALCULATED LOAD WITH DEMAND FACTORS (NEC 215.3)				
GENERAL LOAD	11,280 VA	12,420 VA	11,056 VA	12,420 VA
RECEPTACLE LOAD (NEC TABLE 220.4)				
1ST 10,000W	0 VA	0 VA	0 VA	0 VA
CONTINUOUS LOAD (NEC 215.2)	928 VA	500 VA	288 VA	500 VA
PLUS 25% (L1, L2, L3)	232 VA	125 VA	72 VA	0 VA
0% (NEUTRAL) (NEC 215.2A) EX NO 2	0 VA	0 VA	0 VA	0 VA
MOTOR LOAD (NEC 430.24)	0 VA	0 VA	0 VA	0 VA
PLUS 25% OF LARGEST MOTOR	0 VA	0 VA	0 VA	0 VA
KITCHEN LOADS (NEC 220.58)				
L1 (0 X 1) =	0 VA			0 VA
L2 (0 X 1) =		0 VA		
L3 (0 X 1) =			0 VA	
TOTAL BALANCED LOAD (3-PHASE)	11,416 VA	11,416 VA	11,416 VA	
TOTAL BALANCED LOAD (1-PHASE)	1,004 VA	1,004 VA	0 VA	
TOTAL UNBALANCED LOAD (1-PHASE)	0 VA	625 VA	0 VA	12,990 VA
NEUTRAL LOAD				
LINE AMPS BALANCED (3-PHASE)	82.4 A	82.4 A	82.4 A	
LINE AMPS BALANCED (1-PHASE)	8.4 A	8.4 A	0.0 A	
LINE AMPS UNBALANCED (1-PHASE)	0.0 A	8.2 A	0.0 A	
TOTALS	90.8 A	90.6 A	82.4 A	107.7 A
ADJUSTMENT FACTOR	0.0 A	0.0 A	0.0 A	
TOTAL DESIGN LOAD	90.8 A	90.6 A	82.4 A	107.7 A
VOLTAGE DROP CALCULATIONS:				
Three Phase (2 X 50 L X 9.8459 P X 96.0 A X 1,000 X 9.866) / 219 VD				
Voltage Drop % (2.0 VD X 240 V X 100) / 0.8 % VD				
HARMONIC CURRENT CALCULATION (NEC 310.15 (B) 4 (C) & NEC TABLE 310.15 (2) A)				
(Harmonic Load 0 VA = Connected Load 38,452 VA) X 100 = 0 %				
Harmonic Load Does Not Exceed 50%				
FAULT CURRENT CALCULATIONS				
Available Fault Current at Starting Point (18,309 AFC X 1.00 UA) = 0 MC = 18,309 AFC				
Conductor Factor CF - Formula (1.732 X 50 L X 18,309 AFC) / (1.474 C X 1 N X 240 V) = 1.364 CF				
Conductor Multiplier CM - Formula (1.1) x 1.1 = 1.21 CM				
Conductor Let-Through Current CLC - Formula (18,309 AFC X 0.419 CM) = 7,671 CLC				
A - Amps				
AFC - Available Fault Current				
C - Conductor Constant				
CF - Conductor Factor				
CLC - Conductor Let-Through Current				
CM - Conductor Multiplier				
L - Length of Conductor				
MC - Motor Contribution				
N - Number of Conductors Per Phase				
P - Resistance				
UA - Utility Adjustment 1.1				
V - Voltage				
VA - Volt Amps				
VD - Voltage Drop				
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PANEL B		FEEDER	
FEED FROM	MAIN SWITCHBOARD	NUMBER OF CONDUITS	1 1/4"
# CIRCUITS	42	FEEDER CONDUIT	1 1/4"
W VOLTAGE	240	WIRE SIZE L1	#2
CON VOLTAGE	120	WIRE SIZE L2	#2
PHASE	3P	WIRE SIZE L3	#2
DESIGN LOAD AMPS	36	WIRE SIZE NEUTRAL	#2
NEUTRAL BUS	YES	WIRE SIZE GROUND	#2
GROUND BUS	YES		
AVAILABLE FAULT CURRENT AT THIS PANEL	7,671		
MAIN LUG ONLY			
	</		

STATE OF CALIFORNIA  
Indoor Lighting  
NRCCLTI-E (Revised 04/21)  
CALIFORNIA ENERGY COMMISSION  
CERTIFICATE OF COMPLIANCE  
Project Name: Grass Valley Police Dept. Break Room  
Project Address: 129 S. Auburn St.  
Report Page: Page 1 of 6  
Date Prepared: 08/03/2022

**A. GENERAL INFORMATION**  
01. Project Location (City): Grass Valley  
02. Climate Zone: 11  
03. Occupancy Types Within Project (select all that apply):  
☐ Office ☐ Retail ☐ Warehouse ☐ Hotel/Motel ☐ School ☐ Support Areas  
☐ Parking Garage ☐ High-Rise Residential ☐ Relocatable ☐ Healthcare ☒ Other (write in): Essential Services

**B. PROJECT SCOPE**  
Table Instructions: Include any lighting systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in §140.6 or §141.6(b)(2) for alterations. WARNING: Changing the Calculation Method in this table will result in the deletion of data previously input. If you need to change the calculation method, please open a new form or use "Save As".

Scope of Work	Conditioned Spaces	Unconditioned Spaces		
01	02	03	04	05
My Project Consists of (check all that apply):	Calculation Method	Area (ft²)	Calculation Method	Area (ft²)
<input type="checkbox"/> New Lighting System				
<input checked="" type="checkbox"/> Altered Lighting System	Area Category	174		
Total Area of Work (ft²)	174			

**C. COMPLIANCE RESULTS**  
Table Instructions: 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 combined for compliance per §140.6(b)(1).	01	02	03	04	05	06	07	08	09
	Complete Building §140.6(c)(1)	Area Category §140.6(b)(2)	Area Category Additional §140.6(b)(2)(c)	Tailored §140.6(c)(3) (+)	Total Allowed (Watts)	Total Designed (Watts)	PAF Control Credits §140.6(c)(2) (-)	Total Adjusted (Watts) *includes Adjustments	OS Must be ≥ 08 §140.6
Conditioned:	(See Table I)	165.3	(See Table I)	(See Table I)	165.3	69	(See Table F)	69	COMPLIES
Unconditioned:									

Table Continued

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: <http://www.energy.ca.gov/title24/2019standards> April 2021

STATE OF CALIFORNIA  
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CALIFORNIA ENERGY COMMISSION  
CERTIFICATE OF COMPLIANCE  
Project Name: Grass Valley Police Dept. Break Room  
Project Address: 129 S. Auburn St.  
Report Page: Page 3 of 6  
Date Prepared: 08/03/2022

**I. LIGHTING POWER ALLOWANCE: COMPLETE BUILDING OR AREA CATEGORY METHODS**  
Table Instructions: Complete the table for each area complying using the Complete Building or Area Category Methods per §140.6(a). Indicate if additional lighting power allowances per §140.6(c) or adjustments per §140.6(b) 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 Allowances / Adjustment
	Break Room	Kitchen, Food Preparation	0.95	174	165.3	Area Category PAF
				TOTAL: 174	165.3	See Tables J or P for detail

**J. ADDITIONAL LIGHTING ALLOWANCE: AREA CATEGORY METHOD QUALIFYING LIGHTING SYSTEM**  
This Section Does Not Apply

**K. TAILORED METHOD GENERAL LIGHTING POWER ALLOWANCE**  
This Section Does Not Apply

**L. ADDITIONAL LIGHTING ALLOWANCE: TAILORED WALL DISPLAY**  
This Section Does Not Apply

**M. ADDITIONAL LIGHTING ALLOWANCE: TAILORED FLOOR AND TASK LIGHTING**  
This Section Does Not Apply

**N. ADDITIONAL LIGHTING ALLOWANCE: TAILORED ORNAMENTAL/SPECIAL EFFECTS**  
This Section Does Not Apply

**O. ADDITIONAL LIGHTING ALLOWANCE: TAILORED VERY VALUABLE MERCHANDISE**  
This Section Does Not Apply

**P. POWER ADJUSTMENT: LIGHTING CONTROL CREDIT (POWER ADJUSTMENT FACTOR (PAF))**  
This Section Does Not Apply

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: <http://www.energy.ca.gov/title24/2019standards> April 2021

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CALIFORNIA ENERGY COMMISSION  
CERTIFICATE OF COMPLIANCE  
Project Name: Grass Valley Police Dept. Break Room  
Project Address: 129 S. Auburn St.  
Report Page: Page 5 of 6  
Date Prepared: 08/03/2022

**U. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE**  
Table Instructions: Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why 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 (ATTCP). For more information visit: <http://www.energy.ca.gov/title24/2019standards>

YES	NO	Form/Title	Field Inspector	
			Pass	Fail
<input type="checkbox"/>	<input checked="" type="checkbox"/>	NRCA-LTI-02-A - Must be submitted for occupancy sensors and automatic time switch controls.	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input checked="" type="checkbox"/>	NRCA-LTI-03-A - Must be submitted for automatic daylight controls.	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input checked="" type="checkbox"/>	NRCA-LTI-04-A - Must be submitted for demand responsive lighting controls.	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input checked="" type="checkbox"/>	NRCA-LTI-05-A - Must be submitted for institutional tuning power adjustment factor (PAF).	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input checked="" type="checkbox"/>	NRCA-ENV-03-F - Must be submitted for daylighting design power adjustment factors (PAF).	<input type="checkbox"/>	<input type="checkbox"/>

STATE OF CALIFORNIA  
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NRCCLTI-E (Revised 04/21)  
CALIFORNIA ENERGY COMMISSION  
CERTIFICATE OF COMPLIANCE  
Project Name: Grass Valley Police Dept. Break Room  
Project Address: 129 S. Auburn St.  
Report Page: Page 2 of 6  
Date Prepared: 08/03/2022

**Controls Compliance (See Table H for Details)**  
**Rated Power Reduction Compliance (See Table Q for Details)** Not Applicable

**D. EXCEPTIONAL CONDITIONS**  
This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.  
No exceptional conditions apply to this project.

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

**F. INDOOR LIGHTING FIXTURE SCHEDULE**  
Table Instructions: Include all permanent designed lighting and all portable lighting in effect.

01	02	03	04	05	06	07	08	09	10
Name or Item Tag	Complete Luminaire Description	Modular (Track) Fixture	Small Aperture (Color Change)	Watts per Luminaire	How Wattage is determined	Total number luminaires	Exempt per §140.6(d)(2)	Occur Watts	Field Inspector
F1	LED Troffer	<input type="checkbox"/>	<input type="checkbox"/>	23	Min. Spec	3		69	Pass
Total Designed Watts CONDITIONED SPACES:								69	

\*FOOTNOTE: Design Watts for small aperture and color changing luminaires which qualify per §140.6(d)(2) is adjusted to be 75% of their rated wattage. Table F automatically makes this adjustment; the permit applicant should enter full rated wattage in column 05.  
\*Authority Having Jurisdiction may ask for Luminaire cut sheets to confirm wattage used for compliance per §170.5(c). Wattage used must be the maximum rated for the luminaire, not the lamp.

**G. MODULAR LIGHTING SYSTEMS**  
This Section Does Not Apply

**H. INDOOR LIGHTING CONTROLS (Not Including PAFs)**  
This Section Does Not Apply

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: <http://www.energy.ca.gov/title24/2019standards> April 2021

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NRCCLTI-E (Revised 04/21)  
CALIFORNIA ENERGY COMMISSION  
CERTIFICATE OF COMPLIANCE  
Project Name: Grass Valley Police Dept. Break Room  
Project Address: 129 S. Auburn St.  
Report Page: Page 4 of 6  
Date Prepared: 08/03/2022

**Q. RATED POWER REDUCTION COMPLIANCE FOR ALTERATIONS**  
This Section Does Not Apply

**R. 80% LIGHTING POWER FOR ALTERATIONS - CONTROLS EXCEPTIONS**  
This Section Does Not Apply

**S. DAYLIGHT DESIGN POWER ADJUSTMENT FACTOR (PAF)**  
This Section Does Not Apply

**T. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION**  
Table Instructions: Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why 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/title24/2019standards/2019\\_compliance\\_documents/Nonresidential\\_Documents/NRCLTI](https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCLTI)

YES	NO	Form/Title	Field Inspector	
			Pass	Fail
<input checked="" type="checkbox"/>	<input type="checkbox"/>	NRCLTI-01-E - Must be submitted for all buildings	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input checked="" type="checkbox"/>	NRCLTI-02-E - Must be submitted for a lighting control system, or for an Energy Management Control System (EMCS), to be recognized for compliance.	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input checked="" type="checkbox"/>	NRCLTI-04-E - Must be submitted for two interlocked systems serving an auditorium, a convention center, a conference room, a multipurpose room, or a theater to be recognized for compliance.	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input checked="" type="checkbox"/>	NRCLTI-05-E - Must be submitted for a Power Adjustment Factor (PAF) to be recognized for compliance.	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input checked="" type="checkbox"/>	NRCLTI-06-E - Must be submitted for additional wattage installed in a video conferencing studio to be recognized for compliance.	<input type="checkbox"/>	<input type="checkbox"/>

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: <http://www.energy.ca.gov/title24/2019standards> April 2021

STATE OF CALIFORNIA  
Indoor Lighting  
NRCCLTI-E (Revised 04/21)  
CALIFORNIA ENERGY COMMISSION  
CERTIFICATE OF COMPLIANCE  
Project Name: Grass Valley Police Dept. Break Room  
Project Address: 129 S. Auburn St.  
Report Page: Page 6 of 6  
Date Prepared: 08/03/2022

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

Documentation Author Name: Brady Pryor  
Company: Grass Valley Electric  
Address: 10973 Rough & Ready Highway  
City/State/Zip: Grass Valley, CA 95945  
Signature Date: 08/03/2022  
CEA/HERS Certification Identification (if applicable):  
Phone: 530-373-7543

**RESPONSIBLE PERSON'S DECLARATION STATEMENT**  
I certify the following under penalty of perjury, under the laws of the State of California:

- The information provided on this Certificate of Compliance is true and correct.
- 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).
- 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.
- 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.
- 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 the builder provides to the building owner at occupancy.

Responsible Designer Name: Brady Pryor  
Company: Grass Valley Electric  
Address: 10973 Rough & Ready Highway  
City/State/Zip: Grass Valley, CA 95945  
Signature Date: 08/03/2022  
License: SCL# 392506  
Phone: 530-373-7543

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: <http://www.energy.ca.gov/title24/2019standards> April 2021

General Notes

LEGEND

NOTES:

No.	Revision/Issue	Date

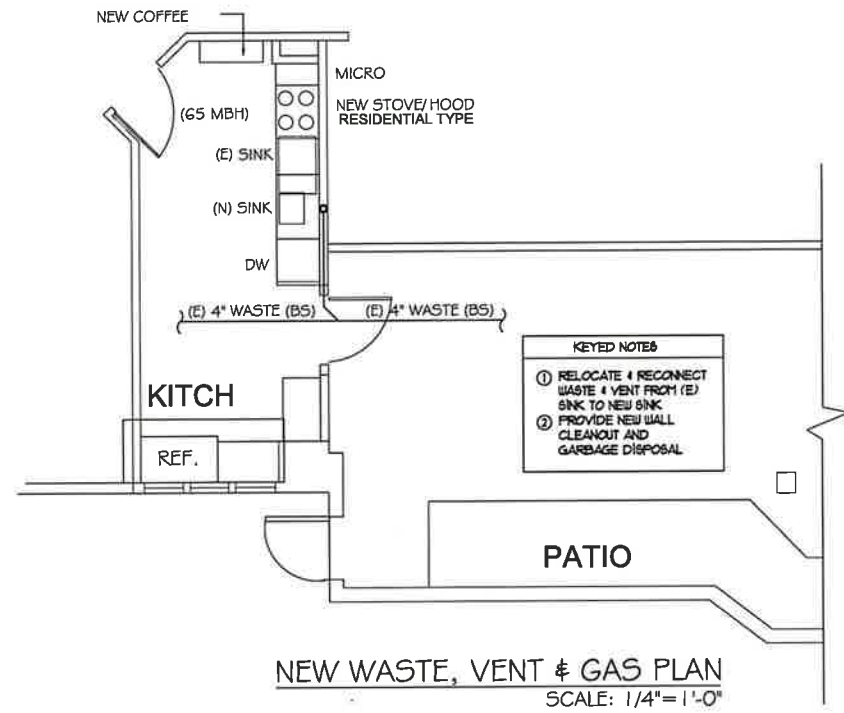
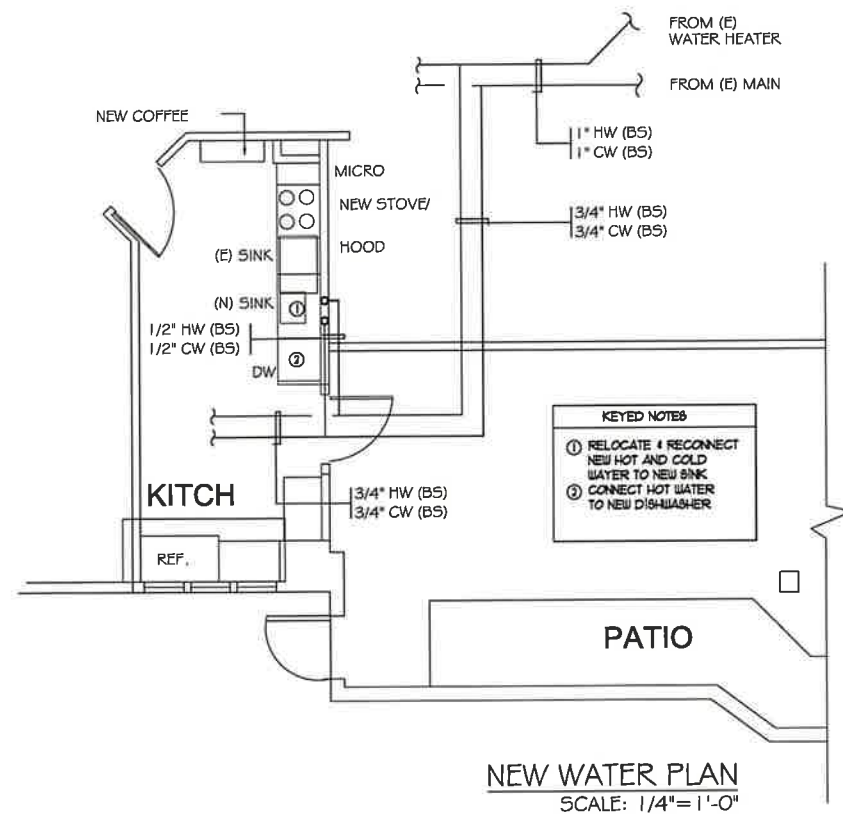
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Project Name and Address:  
GV POLICE DEPT. BREAK RM.  
129 S. AUBURN ST.  
GRASS VALLEY, CA 95945

Project No.	Sheet
8-09-2022	T24 ENERGY REPORTS
Scale	
N/A	

**T-24 - 1**





# PLUMBING NOTES

- ALL WATER AND WASTE PLUMBING INSTALLATION WORK AND ALL PLUMBING MATERIALS SHALL BE IN ACCORDANCE WITH THE 2019 CALIFORNIA PLUMBING CODE.
- IT IS THE INSTALLING CONTRACTORS RESPONSIBILITY TO ASSURE ALL SYSTEMS FUNCTION PROPERLY, SAFELY, AND MEET ALL LOCAL, STATE AND REGIONAL CODES.
- ALL WORK IS TO CONFORM TO THE ACCEPTED STANDARDS OF THE TRADE. ALL KITCHEN EQUIPMENT HAS BEEN SELECTED AND BY OWNER.
- CONTRACTOR SHALL COORDINATE WITH OTHER TRADES.
- FURNISH AND INSTALL ALL MATERIALS AND PERFORM ALL LABOR NECESSARY FOR A COMPLETE INSTALLATION OF PLUMBING WORK INDICATED ON THE DRAWINGS. PROVIDE ANY INCIDENTAL WORK NOT SHOWN OR SPECIFIED, WHICH CAN REASONABLY BE INFERRED OR TAKEN AS BELONGING TO THE WORK AND NECESSARY TO PROVIDE THE COMPLETE SYSTEM.
- PROVIDE ALL NECESSARY PLUMBING CONNECTIONS TO EQUIPMENT FURNISHED UNDER OTHER DIVISIONS OR SECTION OR BY OWNERS. PROVIDE SHUTOFF VALVES OR STOPS AT EACH CONNECTION
- PIPING IS TO BE FIELD LOCATED IN SUCH A WAY AS TO AVOID OBSTACLES, MEET CALIFORNIA PLUMBING CODE (CPC) REQUIREMENTS AND ALLOW SERVICE CLEARANCE TO AREAS AND EQUIPMENT THAT MAY REQUIRE SERVICING.
- PIPING MATERIALS SHALL MATCH EXISTING FOR CONNECTION TO NEW SINK, PROVIDED BY OWNER, FROM EXISTING SINK.
- INSTALL AND CONNECT NEW GARBAGE DISPOSAL UNIT TO SINK.
- ALL WATER SUPPLY PIPING SHALL BE PROTECTED FROM FREEZING. ALL WATER PIPING SHALL BE INSTALLED IN SUCH A MANNER TO ALLOW FOR THE SYSTEM TO BE DRAINED. WATER PIPING SHALL NOT BE INSTALLED OR CONCEALED IN UN-INSULATED WALLS, CEILINGS, AND ATTICS.

## TENANT IMPROVEMENT GVPD - BREAK ROOM ADA UPGRADE 129 SOUTH AUBURN ST GRASS VALLEY, CA

**Deer Creek**  
studio  
ARCHITECTURE + INTERIORS  
521 NEVADA STREET  
NEVADA CITY, CA 95959  
(530) 470-3408



### REVISIONS

- △ ISSUED FOR PERMIT 10-17-2022
- △
- △
- △
- △
- △

DATE: 10-17-2022

JOB NO:

SCALE: AS NOTED

PLUMBING PLANS & NOTES

P1