

A Fire Repair for:  
San Jose Tattoo  
1924 W. San Carlos St.  
San Jose, CA. 95128

SCOPE OF WORK:

REPLACE FIRE DAMAGED RAFTERS AND SHEATHING PER PLAN. REPLACE FIRE DAMAGED EXTERIOR SIDING PER PLAN. REPLACE 6 WINDOWS IN EXISTING OPENING. REMOVE AND RESET OR REPLACE EXISTING LIGHT FIXTURES, LAVATORY SINK AND TOILETS PER PLAN. RE-ROOF. ALL REPAIRS LIKE FOR LIKE.

INSTALL NEW PARKING LOT STRIPING AND SIGNAGE FOR ACCESSIBLE PARKING SPACE AND PATH OF TRAVEL FROM PARKING SPACE AND PUBLIC WAY. INSTALL NEW HANDICAPPED RAMP AND LANDING TO BUILDING ENTRANCE.



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PROJECT DESCRIPTION:

PROJECT DESCRIPTION:

ASSESSOR'S PARCEL NUMBER : 211-08-030

BUILDING OCCUPANCY : B

TYPE OF CONSTRUCTION : V-B

STORIES : 1

YEAR BUILT/EFF : 1952 / 1952

LOT AREA : 3,940 SF

ZONING : G

FIRE-SPRINKLER : NO

BUILDING AREA:

(E) BUILDING : 629 SF

GENERAL NOTES:

- The proposed residence is to be constructed by a Contractor and the architectural plans are based on site plans, exterior elevations, scaled floor plans and material construction specifications approved by the owner. The architectural plans are not intended to be comprehensive and it shall be the responsibility of the subcontractors to notify the Contractor of any necessary clarifications or modifications.
- All work connected with this project shall be done in a professional manner in accordance with the traditionally and legally defined "best accepted practice" of the trade involved. Additionally, all work shall comply with applicable codes and trade standards which govern each phase of work, including but not limited to the 2019 California Building Code (CBC), 2019 California Mechanical Code (CMC), 2019 California Fire Code (CFC), 2019 California Electrical Code (CEC), American Concrete Institute Code (ACI), 2019 California Plumbing Code (CPC) and all applicable local codes and/or legislation.
- The Contractor shall be responsible for notifying the Designer of any unusual or unforeseen foundation conditions, discrepancies of omissions within the plans or any deviations or changes from the plans before proceeding with the work involved otherwise they will be considered adequate for proper completion of the project. The Contractor shall be responsible for verifying field measurements before ordering materials and prefabricated items.
- Adequate supervision and periodic inspection during the construction phase are recommended. The Contractor shall be responsible to ensure that this inspection and supervision are provided by qualified persons.
- These plans shall not be considered complete and ready for construction until a building permit has been issued.
- In all cases written dimensions take precedence over scaled dimensions. Dimensions are to the face of stud or face of concrete unless otherwise noted.
- Larger scale details take precedence over smaller scale details.
- Lay out all structural work by referring to dimensions and elevation notes on the architectural plans. Do not scale structural drawings work detail dimensions from controlling surface points and actual material dimensions.
- Slope finish exterior surface away from foundation.

ABBREVIATIONS:

WINDOW ABBREVIATIONS:	
3030	- 3'-0" X 3'-0"
CT	- CIRCLE TOP
SLDR	- HORIZONTAL SLIDER
CSMT	- CASEMENT
FIX	- FIXED
SL	- SIDELIGHT
TEMP	- TEMPERED GLASS
HC	- HALF CIRCLE
SH	- SINGLE HUNG
DH	- DOUBLE HUNG
ARCH	- ARCHED
EGRESS	- EGRESSIBLE WINDOW SEE NOTE BELOW
DOOR ABBREVIATIONS:	
2/0	- 2'-0" WIDE X 6'-8" TALL UNLESS OTHERWISE NOTED
3080	- 3'-0" WIDE X 8'-0" TALL
3070	- 3'-0" WIDE X 7'-0" TALL
3068	- 3'-0" WIDE X 6'-8" TALL
\$	- CENTERLINE
DIM	- DIMENSION
EL	- ELEVATION
(E)	- EXISTING
F.A.	- FINISH FLOOR
G.C.	- GENERAL CONTRACTOR
(N)	- NEW
N.T.S.	- NOT TO SCALE
R.O.	- ROUGH OPENING
PL	- PROPERTY LINE
T.O.S.	- TOP OF SLAB
TYP.	- TYPICAL
UN.O.	- UNLESS NOTED OTHERWISE
V.I.F.	- VERIFY IN FIELD

LEGEND:

WALL LEGEND:	
	- EXISTING WALL TO REMAIN
	- EXISTING WALL REMOVED
	- NEW WALL CONSTRUCTION
	- SECTION CUT SECTION NAME SECTION PAGE
	- DIMENSIONAL REFERENCE /ELEVATION
	- REVISION
	- REVISION CLOUD
	- DETAIL NUMBER PAGE
	- ROOF PITCH

ELECTRICAL LEGEND:

\$	SWITCH	⊕	NEW SMOKE DETECTOR INTERCONNECTED 110V W/ 10 YR. BATTERY LIFE BACK-UP
\$DIM	DIMMER SWITCH	⊕	NEW CARBON MONOXIDE DETECTOR INTERCONNECTED 110V W/ 10 YR. BATTERY LIFE BACK-UP
\$34	3 AND 4 WAY SWITCH	⊕	CEILING REGISTER
\$VC	VACANCY SENSOR	⊕	FLOOR REGISTER
⊕	DUPLEX RECEPTICAL OUTLET W/ ARC FAULT INTERRUPTER	⊕	COLD AIR REGISTER
⊕	FOUR PLEX RECEPTICAL OUTLET W/ ARC FAULT INTERRUPTER	⊕	TOE REGISTER
⊕	220 OUTLET	⊕	COLD AIR REGISTER
⊕	1/2 HOT DUPLEX RECEPTICAL OUTLET W/ ARC FAULT INTERRUPTER	⊕	CHIMES
⊕WP	WATERPROOF DUPLEX RECEPTICAL OUTLET W/ARC FAULT INTERRUPTER	⊕	DOOR BELL
⊕GFCI	GROUND FAULT CIRCUIT INTERRUPTER RECEPTACLE OUTLET	⊕	UNDER-CABINET FLUORESCENT
⊕GFCI/AFCI	GROUND FAULT CIRCUIT INTERRUPTER RECEPTACLE OUTLET	⊕	FLUORESCENT LIGHT
⊕	LED SURFACE MOUNTED LIGHT FIXTURE	⊕	WALL SCONCE
⊕PS MD	MOTION SENSOR WITH INTEGRATED PHOTO CELL	⊕	SPEAKER
⊕	LED RECESSED LIGHT FIXTURE	⊕	LED TRACK LIGHT
⊕	JUNCTION BOX		
⊕	EXHAUST FAN SWITCHED OR CONTINUOUS		
⊕LED	EXHAUST FAN/LED LIGHT		

NOTE:

THE FOLLOWING CODES AND REGULATIONS AS AMENDED BY THE STATE OF CALIFORNIA & LOCAL JURISDICTION ARE APPLICABLE TO THIS PROJECT.

CBC	2019 California Building Code
CRBC	2019 California Residential Building Code
CGBC	2019 California Green Building Code
CEC	2019 California Electrical Code
CFC	2019 California Fire Code
CMC	2019 California Mechanical Code
CEC	2019 California Energy Code
CRC	2019 California Residential Code

Revisions

By

12/11/2020

TR

05/15/2021

GF

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Date

09/17/2020

Scale

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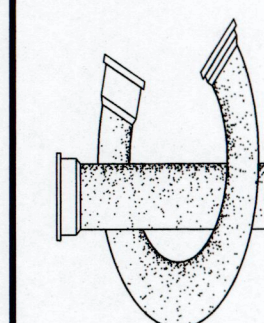
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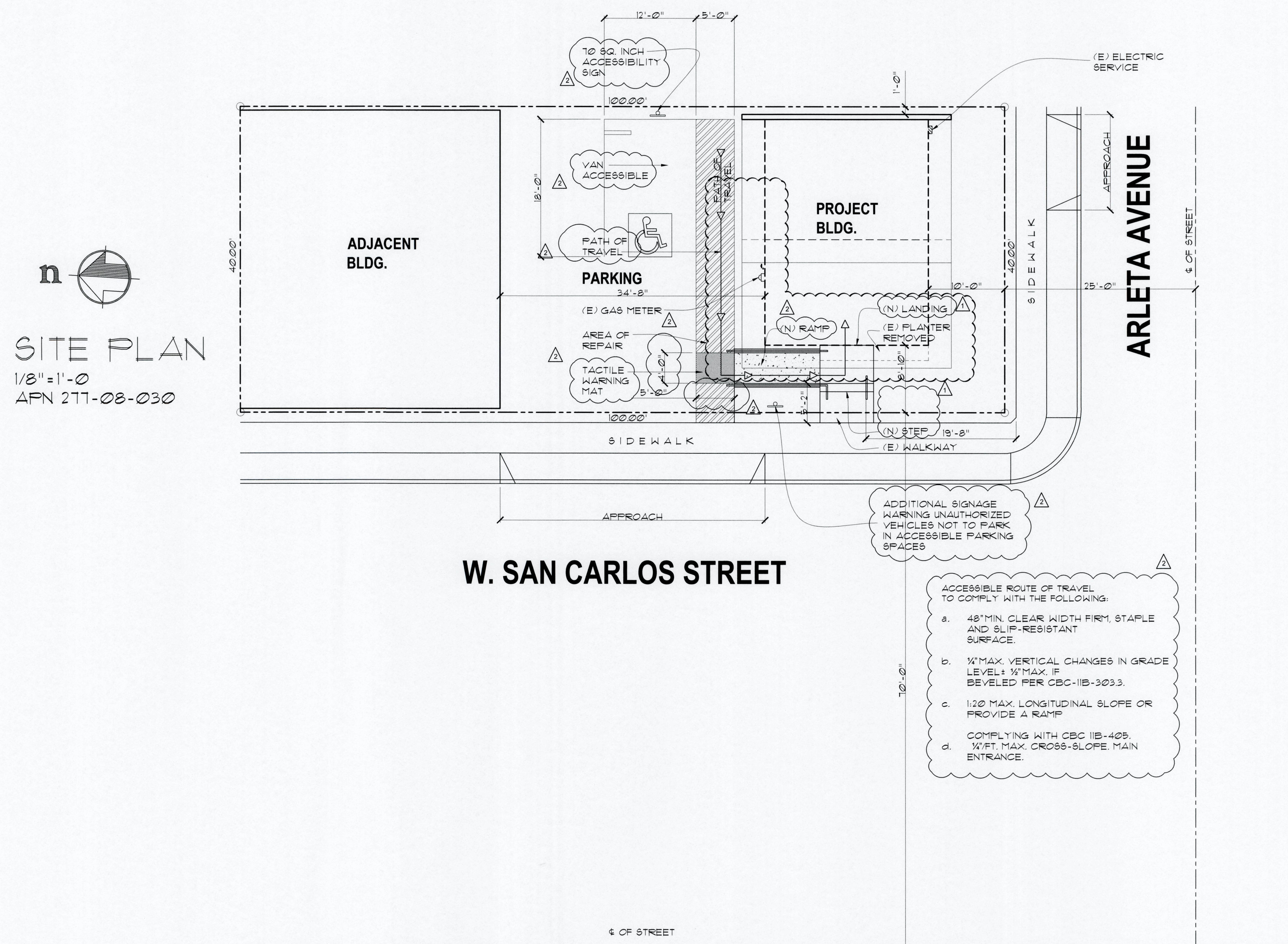


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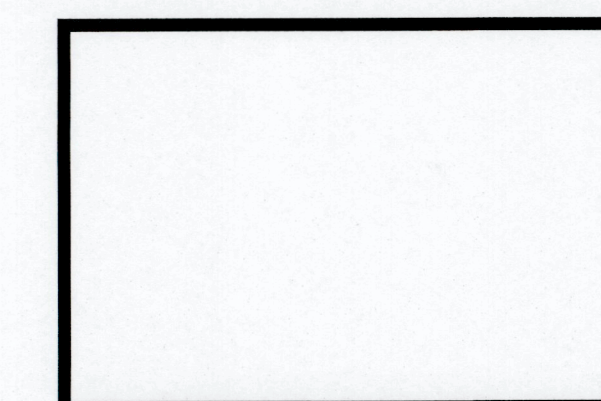
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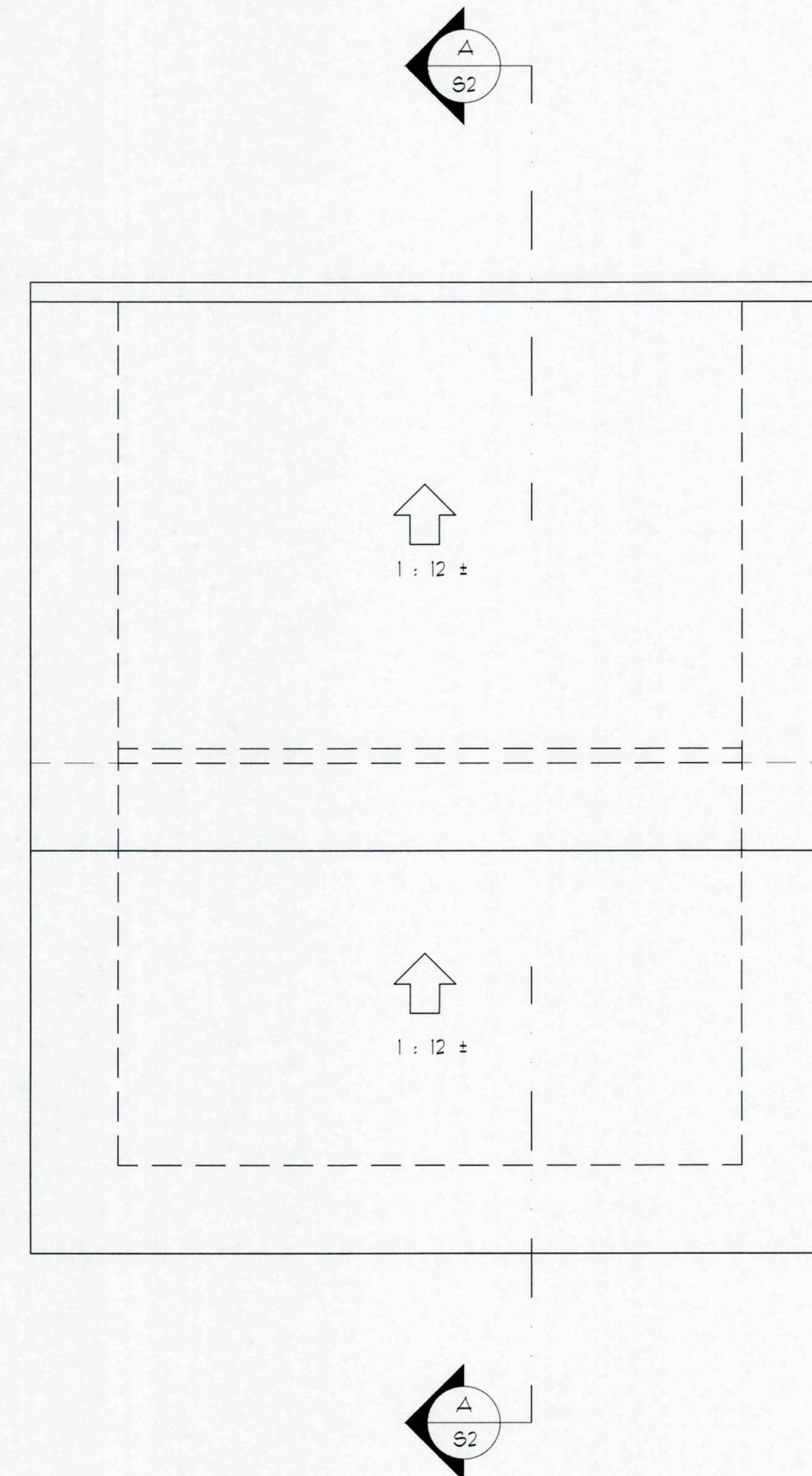


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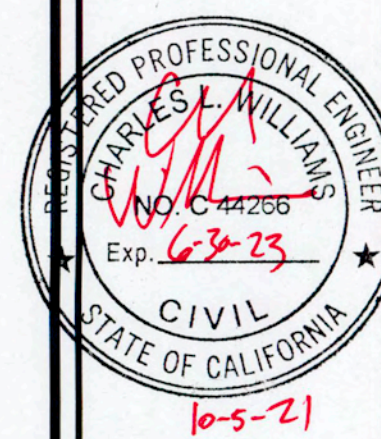
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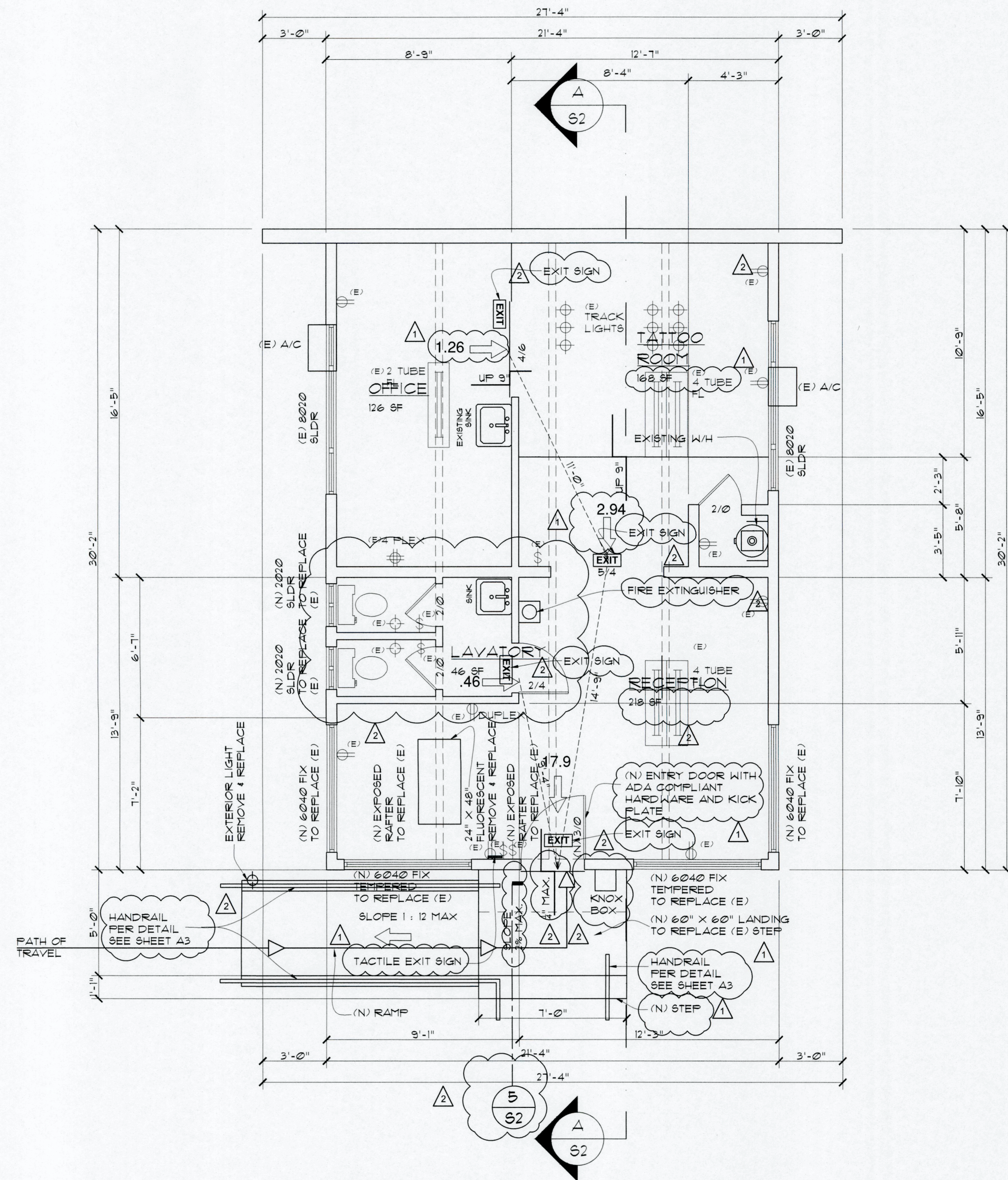


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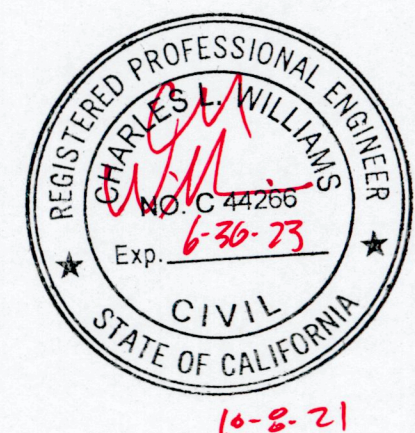
PROPOSED FLOOR PLAN  
1/4" = 1'-0"

OCCUPANT LOAD ANALYSIS

ROOM NAME	USE	OCCUPANCY GROUP	OCCUPANT LOAD FACTOR (OLF)	SQUARE FOOTAGE (SQ.FT.)	OCCUPANT LOAD $OL=(SQ.FT.) / (OLF)$	REQUIRED EXIT WIDTH (OL X 0.2)	EXIT WIDTH PROVIDED
RECEPTION	RECEPTION	B	15	218	14.5	2.8	36
OFFICE	OFFICE	B	100	126	1.26	0.25	54
LAVATORY	LAVATORY	B	100	46	0.46	0.09	28
TATTOO ROOM	TATTOO ROOM	B	100	168	1.68	0.34	64
TOTAL				558	17.9	3.58	36

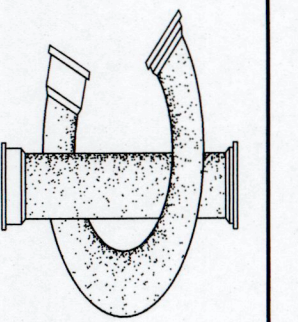
FIRE NOTES:

- EGRESS DOORS SHALL BE READILY OPENABLE FROM THE EGRESS SIDE WITHOUT THE USE OF A KEY OR SPECIAL KNOWLEDGE OR EFFORT. 1010.1.3
- EXIT SIGNS SHALL BE READILY VISIBLE FROM ANY DIRECTION OF APPROACH AND SHALL BE LOCATED AS NECESSARY TO CLEARLY INDICATE THE DIRECTION OF EGRESS TRAVEL. PER 1013.1.
- THE BUILDING SHALL BE EQUIPPED WITH A PERMANENTLY INSTALLED EMERGENCY ACCESS KEY LOCK BOX (KNOX). AT TIME OF FINAL INSPECTION, ACCESS KEYS SHALL BE PROVIDED TO THE FIRE DEPARTMENT. 34CONTACT SAN JOSE FIRE PREVENTION TO OBTAIN BOX AND COORDINATE LOCATION. CFC 506
- PROVIDE PORTABLE FIRE EXTINGUISHERS (MINIMUM TYPE OF 2A-10BC) FOR EVERY 75 FT. OF TRAVEL DISTANCE OR 3000 SQ. FT. (PER UNIT OF 4) CFC 906.3



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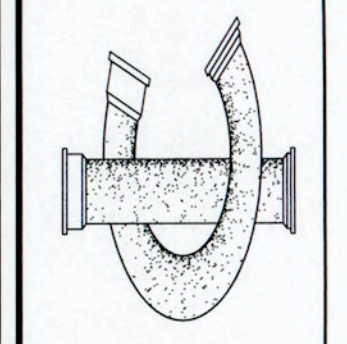
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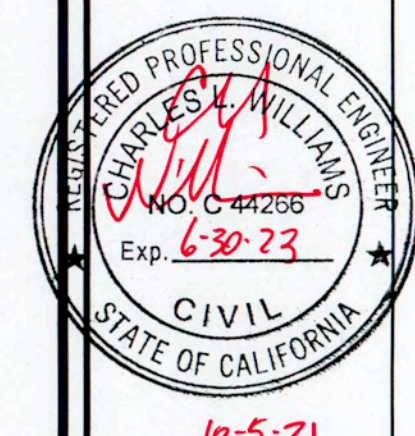


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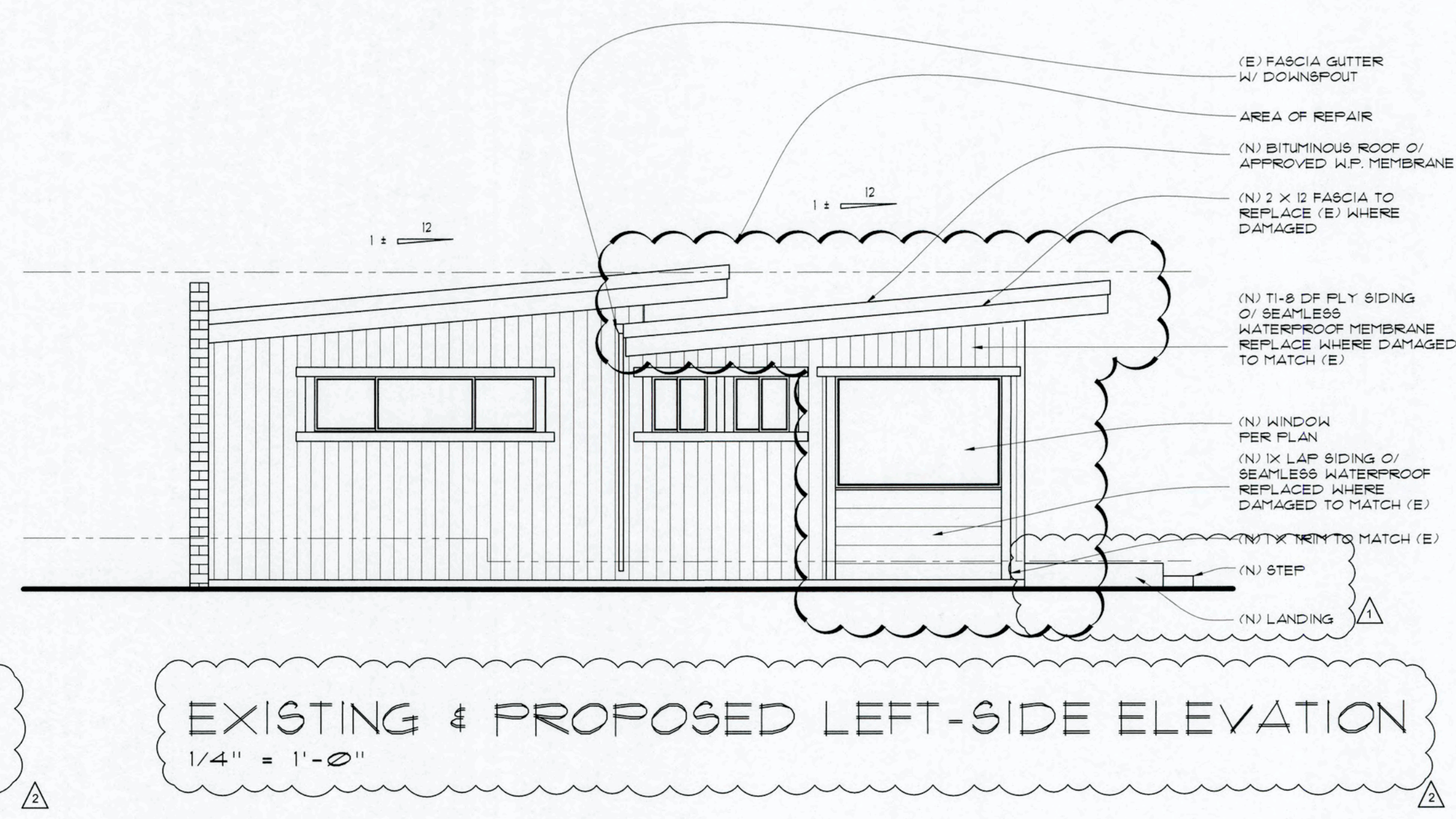
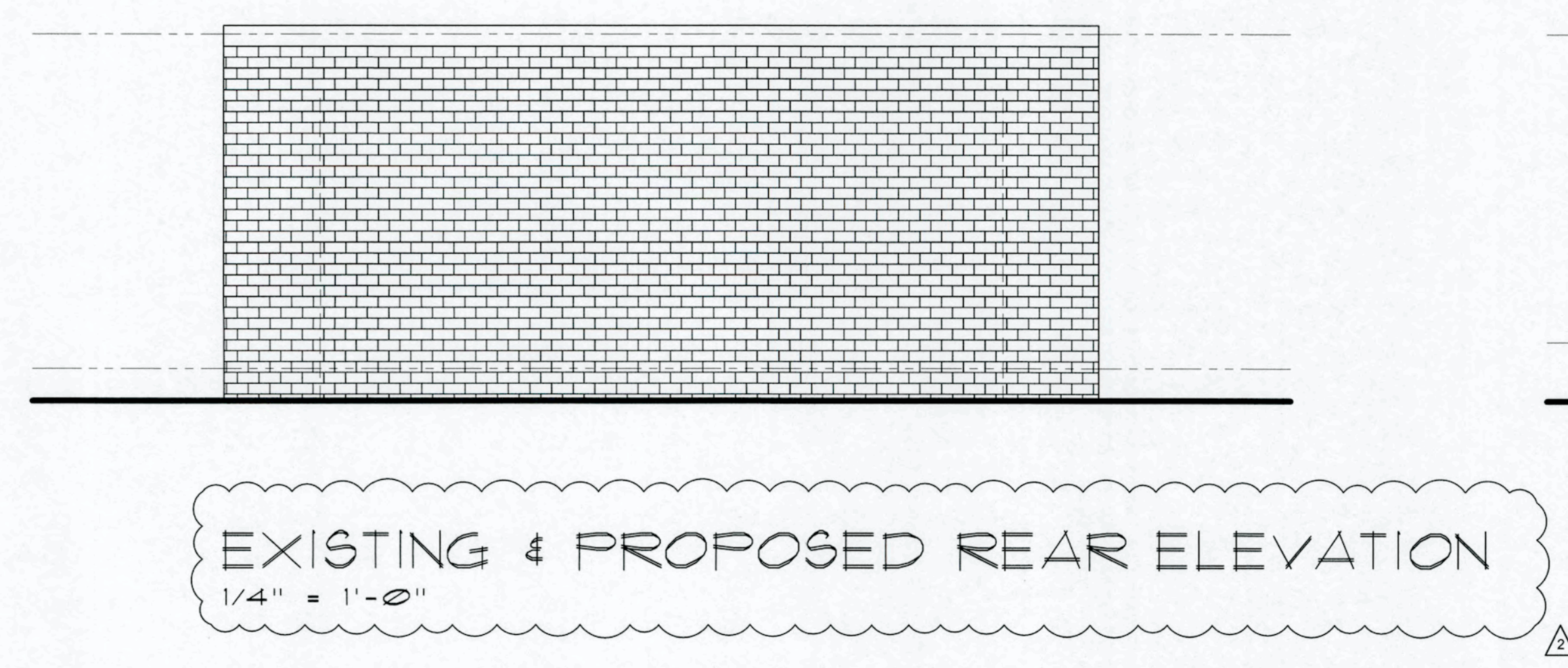
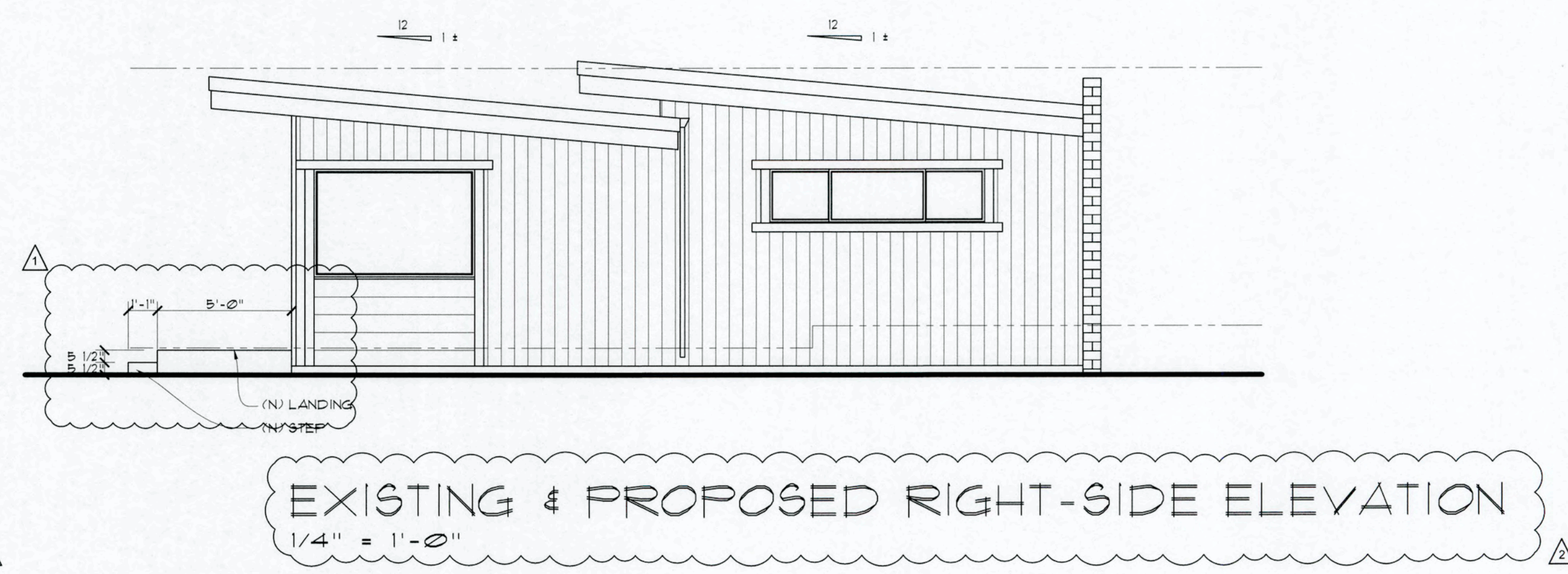
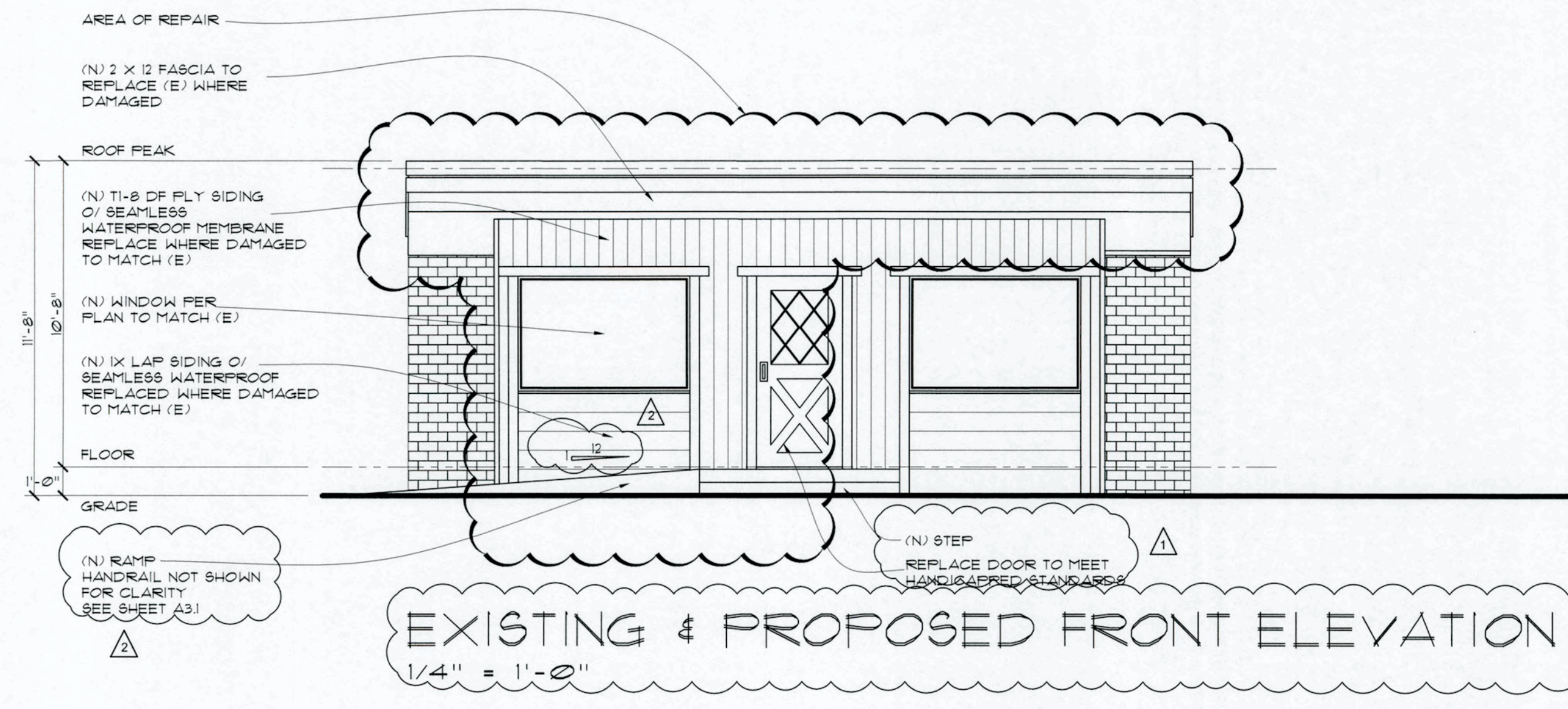


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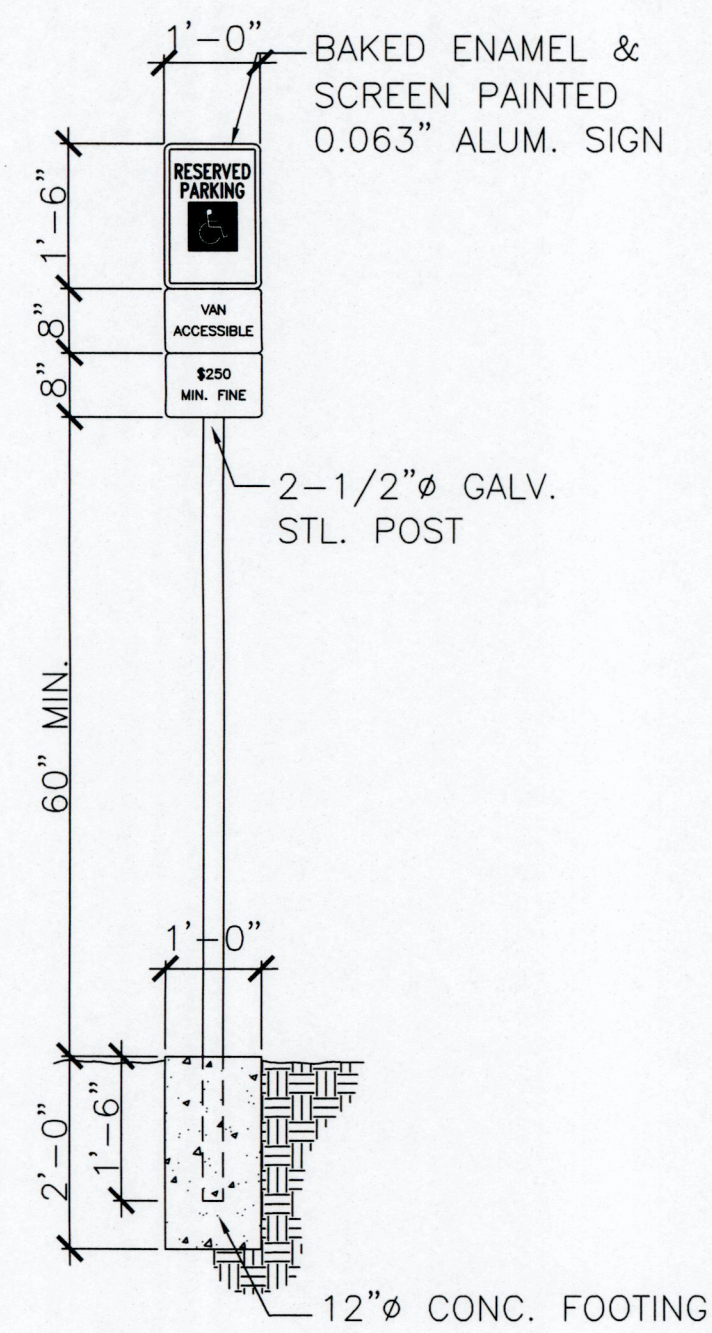


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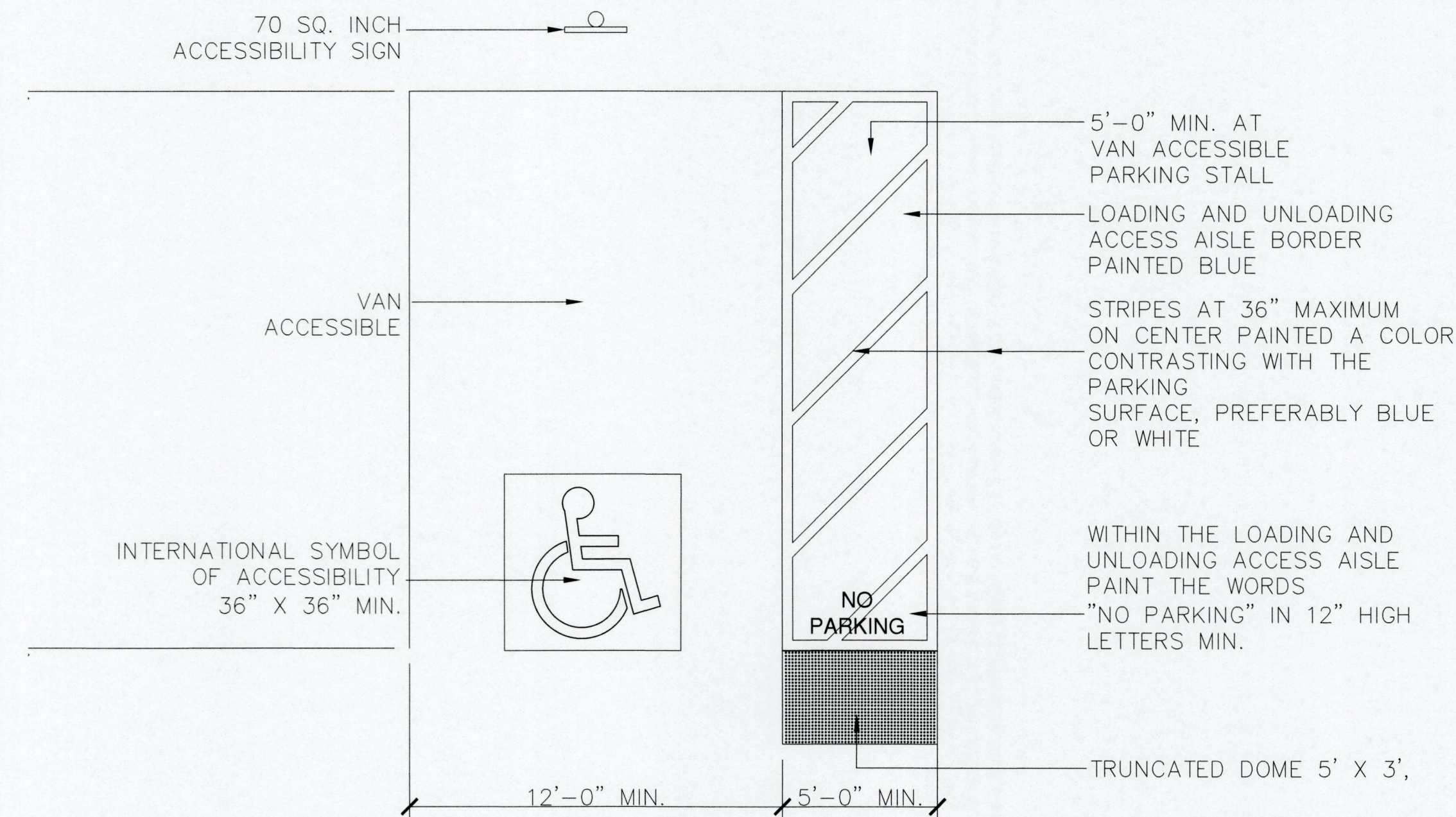
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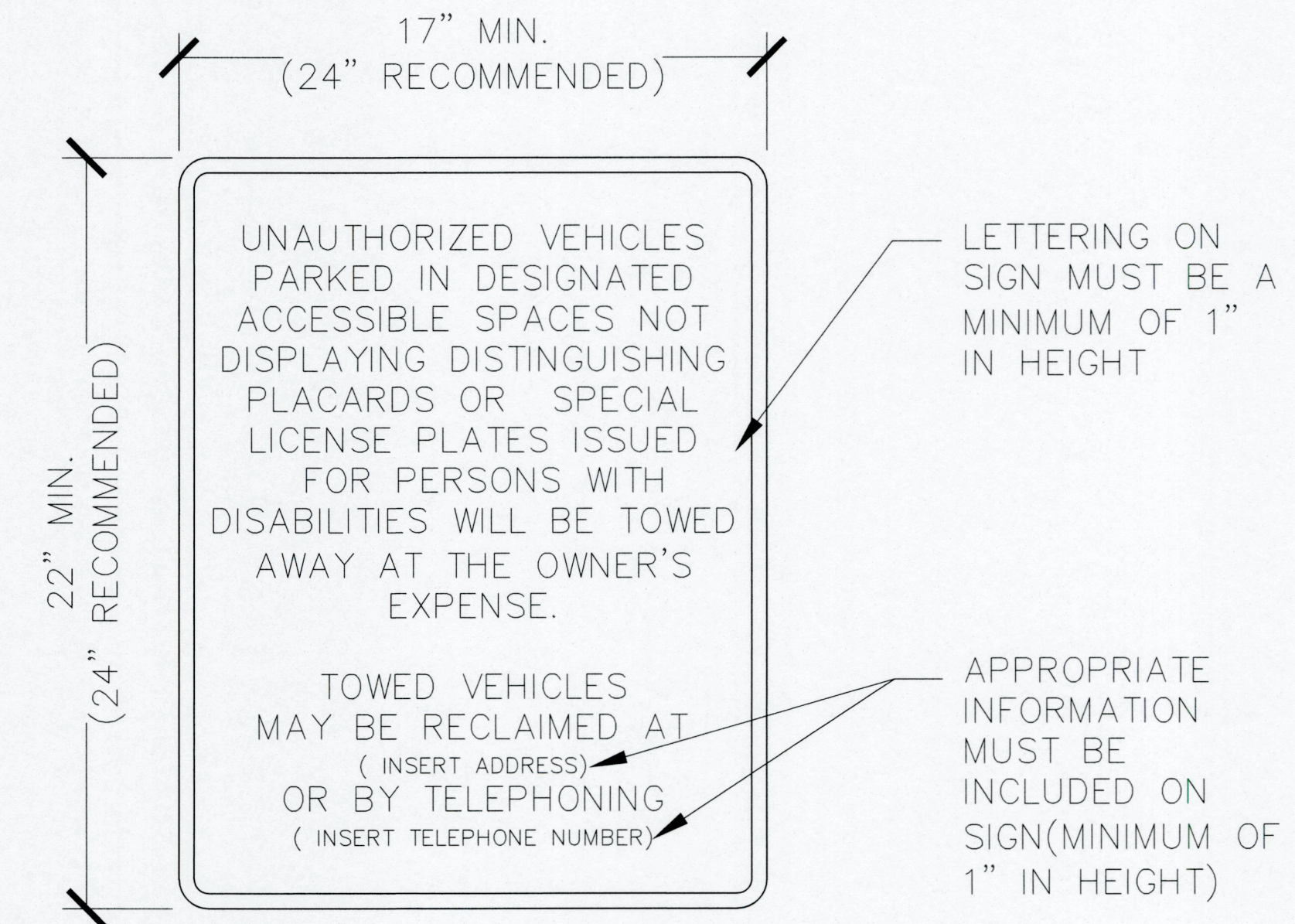
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DIMENSIONS OF H.C. PARKING SPACE

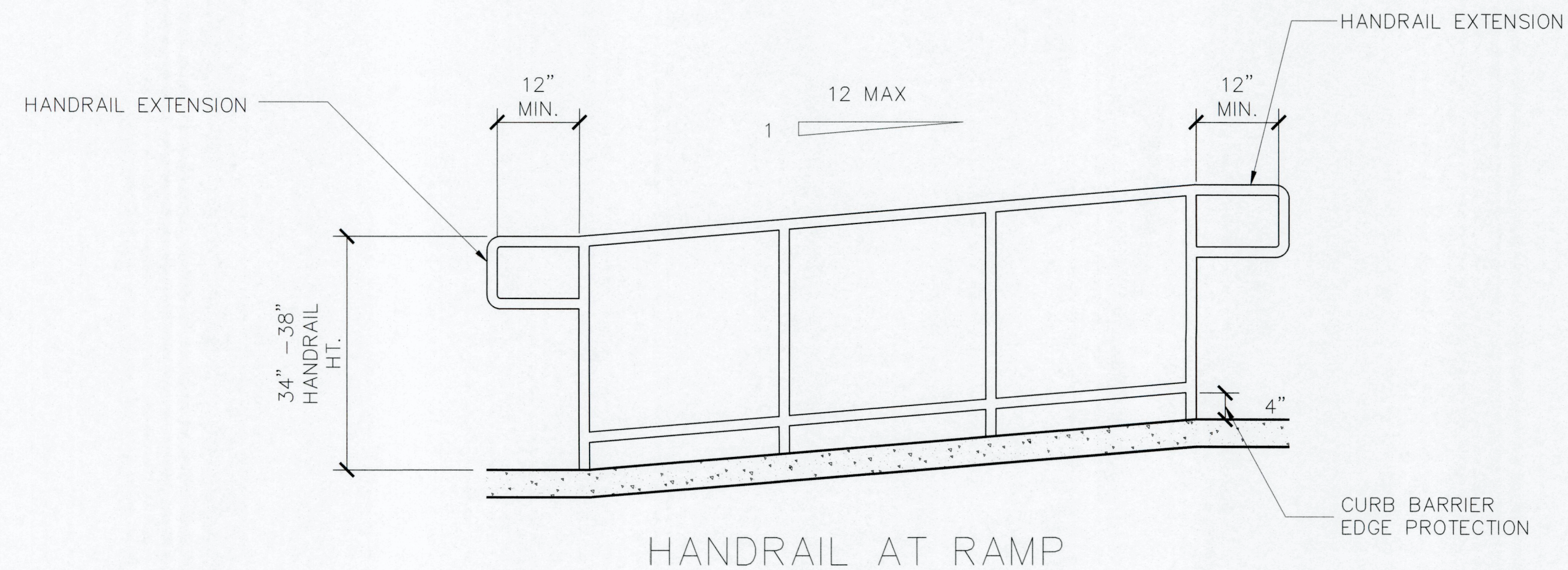
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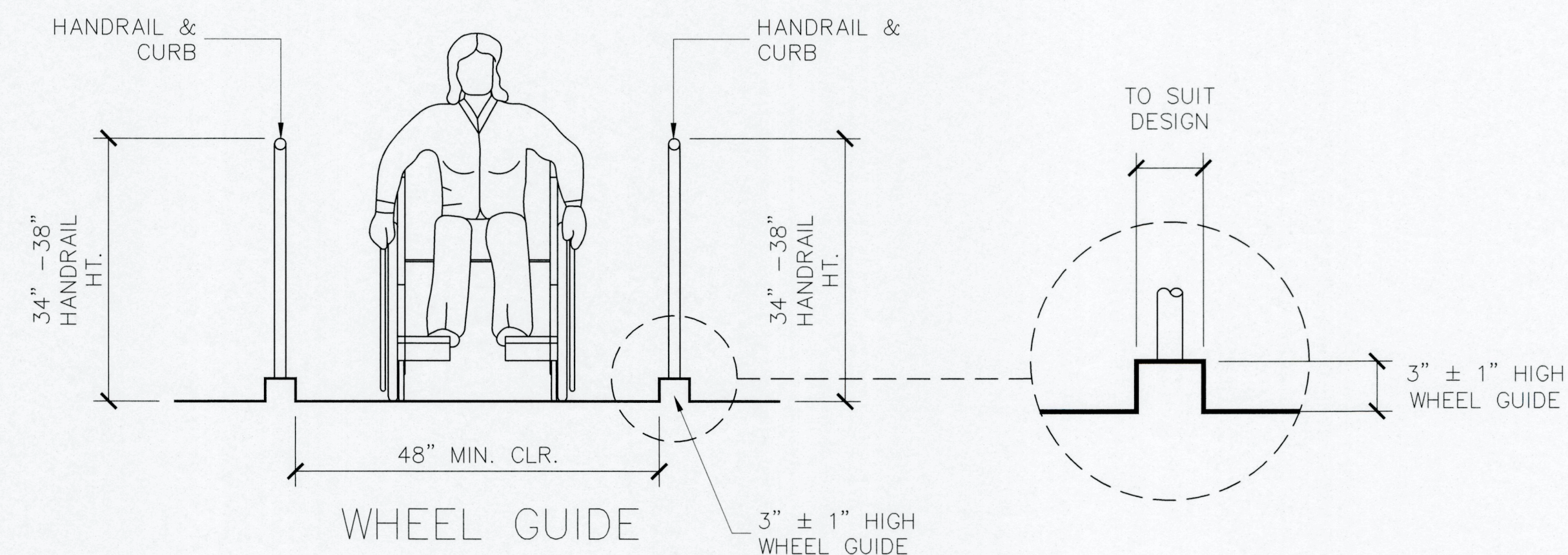


ADDITIONAL SIGNAGE WARNING  
UNAUTHORIZED VEHICLES NOT TO PARK  
IN ACCESSIBLE PARKING SPACES

SCALE: NTS



## HANDRAIL AT RAMP



## WHEEL GUIDE

RAMP NOTES:

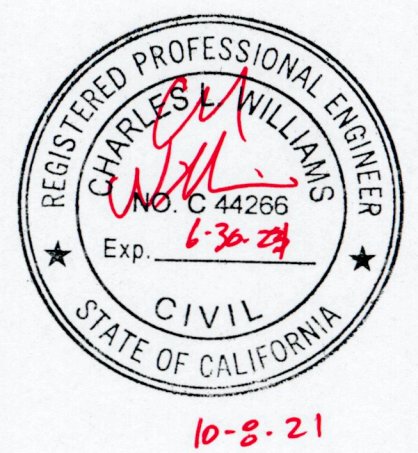
RAMPS ON ACCESSIBLE ROUTES SHALL COMPLY WITH CBC 11B-405.  
EXCEPTION: IN ASSEMBLY AREAS, AISLE RAMPS ADJACENT TO SEATING AND NOT SERVING ELEMENTS REQUIRED TO BE ON AN ACCESSIBLE ROUTE SHALL NOT BE REQUIRED TO COMPLY WITH CBC 11B-405.

- a. RUN SLOPE: RAMP RUNS SHALL NOT EXCEED 1:12 (8.3%). (CBC 11B-405.2)
- b. CROSS SLOPE: CROSS SLOPE SHALL NOT EXCEED 1:48 (2.1%). (CBC11B-405.3)
- c. OPENING IN FLOOR OR GROUND SURFACES: (CBC 11B-405.4)  
SHALL NOT ALLOW PASSAGE OF A SPHERE MORE THAN 1/2" DIAMETER.  
ELONGATED OPENINGS SHALL BE PLACED SO THAT THE LONG  
DIMENSION IS PERPENDICULAR TO THE DIRECTION OF TRAVEL. (CBC11B-302.3)
- d. CHANGE IN LEVEL: NOT PERMITTED ON RAMP RUN. (CBC 11B-405.4)
- e. CLEAR WIDTH: 48" MINIMUM IN RAMP RUN. SEE EXCEPTIONS PER CBC11B-405.5.
- f. RISE: 30" MAXIMUM IN RAMP RUN. (CBC 11B-405.6)
- g. HANDRAILS: RAMP RUNS SHALL HAVE HANDRAILS COMPLYING WITH CBC 11B-505.  
SEE EXCEPTION PER CBC11B-405.8.
- h. EDGE PROTECTION: SHALL BE PROVIDED ON EACH SIDE OF RAMP RUNS AND  
ACH SIDE OF RAMP  
LANDINGS AND SHALL COMPLY WITH CBC 11B-405.9.2. SEE EXCEPTIONS PER CBC 11B-405.9.
- i. CURB OR BARRIER: CONTINUOUS AND UNINTERRUPTED CURB OR BARRIER SHALL BE PROVIDED  
ALONG THE LENGTH OF THE RAMP. CURB SHALL BE 2" MINIMUM HIGH, OR BARRIER SHALL BE  
PASSAGE OF A 4" DIAMETER SPHERE. (CBC 11B-405.9.2)
- j. WET CONDITIONS: LANDINGS SHALL BE DESIGNED TO PREVENT THE ACCUMULATION OF WATER.  
(CBC 11B405.10)

RAMP LANDINGS NOTES:

RAMPS SHALL HAVE LANDINGS AT THE TOP AND THE BOTTOM OF EACH RAMP RUN.  
LANDINGS SHALL COMPLY WITH CBC 11B-405.7.

- a. SLOPE: LANDINGS SHALL COMPLY WITH CBC 11B-302. CHANGES IN LEVEL ARE NOT PERMITTED. EXCEPTION: SLOPES NOT STEEPER THAN 1:48 (2.1%) SHALL BE PERMITTED. (CBC 11B-405.7.1)
- b. WIDTH: AT LEAST AS WIDE AS THE WIDEST RAMP RUN. (CBC 11B-405.7.2)
- c. WIDTH AT TOP LANDING: 60" WIDE MINIMUM. (CBC 11B-405.7.2.1)
- d. LENGTH: 60" LONG MINIMUM CLEAR. (CBC 11B-405.7.3)
- e. LENGTH AT BOTTOM LANDING: BOTTOM LANDINGS SHALL EXTEND 72" MINIMUM IN THE DIRECTION OF RAMP RUN (CBC 11B-405.7.3.1)
- f. CHANGE IN DIRECTION: SHALL HAVE A CLEAR LANDING MINIMUM 60" X 72" IN THE DIRECTION OF DOWNWARD TRAVEL.
- g. DOORWAYS: MANEUVERING CLEARANCES REQUIRED BY CBC 11B-404.2.4 & 404.3.2 SHALL BE PERMITTED TO OVERLAP THE LANDING AREA. FULLY OPENED DOOR SHALL NOT REDUCE THE REQUIRED RAMP LANDING WIDTH BY MORE THAN 3". DOOR IN ANY POSITION SHALL NOT REDUCE THE MINIMUM DIMENSION OF RAMP LANDING TO LESS THAN 42". (CBC 11B-405.7.5)



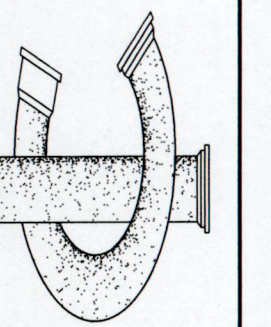
## HANDRAIL AT RAMP DETAIL

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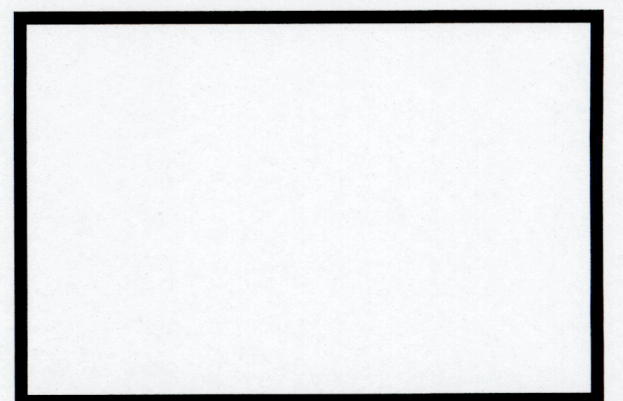
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A3





## VICINITY MAP

## PROJECT:

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## CALIFORNIA GREEN BUILDING STANDARDS CODE 2019

- ALL HVAC DUCTS ARE REQUIRED TO BE SEALED WITH MASTIC AND SHALL BE TESTED. CONCEALED DUCT SHALL BE INSULATED WITH MIN R-8 DUCT INSULATION.
- AT THE TIME OF ROUGH INSTALLATION OR DURING STORAGE ON THE CONSTRUCTION SITE AND UNTIL START-UP OF THE HEATING AND COOLING EQUIPMENT, ALL DUCTS AND OTHER RELATED AIR DISTRIBUTION COMPONENT EQUIPMENT SHALL BE COVERED WITH TAPE, PLASTIC, SHEETMETAL OR OTHER METHODS ACCEPTABLE TO THE ENFORCING AGENCY TO REDUCE THE AMOUNT OF DUST OR DEBRIS WHICH MAY COLLECT IN THE SYSTEM. CGBC 5.504.3
- BASED ON THESE PLANS, THE MECHANICAL/BALANCING CONTRACTOR SHALL PROVIDE A TESTING AND ADJUSTING PLAN AND SHALL FOLLOW IT AS PER CALIFORNIA GREEN BUILDING STANDARDS CODE, SECTION 5.410.4.
- IN MECHANICAL VENTILATED BUILDINGS, PROVIDE REGULARLY OCCUPIED AREAS OF THE BUILDING WITH AIR FILTRATION MEDIA FOR OUTSIDE AND RETURN AIR PRIOR OCCUPANCY THAT PROVIDES AT LEAST A MERV 8. CGBC 5.504.5.3
- BUILDINGS SHALL MEET OR EXCEED THE PROVISIONS OF CALIFORNIA BUILDING CODE, CCR, TITLE 24, PART 2, SECTIONS 1203 (VENTILATION) AND CHAPTER 14 (EXTERIOR WALLS). FOR ADDITIONAL MEASURES NOT APPLICABLE TO LOW-RISE RESIDENTIAL OCCUPANCIES, SEE SECTION 5.407.2 OF THIS CODE. CGBC 5.505.1
- FOR MECHANICALLY OR NATURALLY VENTILATED SPACES IN BUILDINGS, MEET THE MINIMUM REQUIREMENTS OF SECTION 120.1 (REQUIREMENTS FOR VENTILATION) OF THE 2019 CALIFORNIA ENERGY CODE, OR THE APPLICABLE LOCAL CODE, WHICHEVER IS MORE STRINGENT, AND DIVISION 1, CHAPTER 4 OF CCR, TITLE 8. CGBC 5.506.1
- FOR BUILDINGS OR ADDITIONS EQUIPPED WITH DEMAND CONTROL VENTILATION, CO2 SENSORS AND VENTILATION CONTROLS SHALL BE SPECIFIED AND INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF THE 2019 CALIFORNIA ENERGY CODE, SECTION 120(C)(4). CGBC 5.506.2
- TESTING AND ADJUSTING SYSTEMS SHALL BE REQUIRED FOR BUILDING LESS THAN 10,000 SQFT. CGBC 5.410.4.
- DEVELOP A WRITTEN PLAN OF PROCEDURES FOR TESTING AND ADJUSTING SYSTEMS. SYSTEMS TO BE INCLUDED FOR TESTING AND ADJUSTING SHALL INCLUDE, AS APPLICABLE TO THE PROJECT, THE SYSTEMS LISTED IN SECTION 5.410.4.2.
- PERFORM TESTING AND ADJUSTING PROCEDURES IN ACCORDANCE WITH APPLICABLE STANDARDS ON EACH SYSTEM AS DETERMINED BY THE ENFORCING AGENCY. 5.410.4.3. BEFORE A NEW SPACE-CONDITIONING SYSTEM SERVING A BUILDING IS OPERATED FOR NORMAL USE, BALANCE IN ACCORDANCE WITH THE PROCEDURES DEFINED BY NATIONAL STANDARDS LISTED IN SECTION 5.410.4.3.1. OR AS APPROVED BY THE ENFORCING AGENCY.
- AFTER COMPLETION OF TESTING, ADJUSTING AND BALANCING, PROVIDE A FINAL REPORT OF TESTING SIGNED BY THE INDIVIDUAL RESPONSIBLE FOR OPERATING THESE SERVICES.
- PROVIDE THE BUILDING OWNER WITH DETAILED OPERATING AND MAINTENANCE INSTRUCTIONS AND COPIES OF WARRANTIES FOR EACH SYSTEM PRIOR TO FINAL INSPECTION. INCLUDE A COPY OF ALL INSPECTION VERIFICATIONS AND REPORTS REQUIRED BY THE ENFORCING AGENCY.
- IF THE HVAC SYSTEM IS USED DURING CONSTRUCTION, USE RETURN AIR FILTERS WITH A MERV OF 8, BASED ON ASHRAE 52.2-1999, OR AN AVERAGE EFFICIENCY OF 30% BASED ON ASHRAE 52.1-1992. REPLACE ALL FILTERS IMMEDIATELY PRIOR TO OCCUPANCY. APPLIES TO ADDITIONS OR ALTERATIONS.
- INSTALL HVAC AND REFRIGERATION EQUIPMENT THAT DOES NOT CONTAIN CFCs. CGBG 5.508.1.1.
- INSTALL FIRE SUPPRESSION EQUIPMENT THAT DOES NOT CONTAIN HALONS. CGBC 5.508.1.2.

## FIRE DEPARTMENT NOTES

- SMOKE DETECTORS INSTALLED IN EXTERIOR ENVIRONMENT SHALL BE LISTED AND SHALL BE WEATHERPROOF LISTED.
- THE SMOKE DETECTOR(S) RELAY SHALL SHUT DOWN AIR MOVING SYSTEMS IN ALL MODES OF OPERATION.
- RELAY USED TO INITIATE CONTROL OFF THE HVAC UNIT SHUTDOWN SHALL BE LISTED FOR FIRE ALARM USE, AND LOCATED WITHIN THREE (3) FEET OF THE CONTROLLED CIRCUIT.
- THE HVAC CONTRACTOR OR COMMISSIONING CONTRACTOR SHALL PROVIDE THE DOCUMENTATION OF THE DIFFERENTIAL PRESSURE ACROSS THE DUCT SMOKE DETECTOR'S SAMPLING TUBES, ALONG WITH THE MANUFACTURER'S INSTALLATION MANUAL FOR THE DUCT SMOKE DETECTOR SHOWING THE LISTED DIFFERENTIAL PRESSURE RANGE.
- HVAC SYSTEM'S SMOKE DETECTOR(S) SHALL ACTIVATE THE VISIBLE AND AUDIBLE SIGNAL AT AN APPROVED LOCATION. THE SIGNALS SHALL BE IDENTIFIED AS AIR DUCT DETECTOR SUPERVISORY SIGNAL AND DUCT SMOKE DETECTOR TROUBLE SIGNAL, IN ACCORDANCE WITH CFC 907.3.1. THIS APPLIES TO BUILDINGS THAT DO NOT CONTAIN A FIRE ALARM CONTROL PANEL.

## SCOPE OF WORK

- PROVIDE NEW COMPLETE HEATING, VENTILATING AND AIR CONDITIONING (HVAC) SYSTEM FOR SAN JOSE TATTOO SHOP.
- PROVIDE NEW EXHAUST FANS FOR PROPER VENTILATION.
- RESIDENTIAL CODE COMPLIANCE.

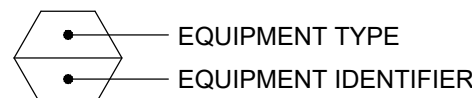
## DRAWING INDEX

SHEET NO.	DESCRIPTION	SHEET NO.	DESCRIPTION
M0.1	SYMBOLS LIST, GENERAL NOTES, ABBREVIATIONS & DRAWING INDEX	M2.2	ROOF MECHANICAL LAYOUT
M0.2	SITE PLAN	M3.0	MECHANICAL GENERAL DETAILS
M1.1	EQUIPMENT SCHEDULE		
M2.1	EXISTING GROUND FLOOR MECHANICAL LAYOUT AND PROPOSED GROUND FLOOR MECHANICAL LAYOUT		

## MECHANICAL SYMBOL & LEGEND

SYMBOL	ABBREV	DESCRIPTION	ABBREV	DESCRIPTION
	POC	POINT OF CONNECTION	EA	EACH
	POD	POINT OF DISCONNECTION	EAD	EXHAUST AIR DUCT
		EXISTING EQUIPMENT OR PIPING TO REMAIN	EAR	EXHAUST AIR REGISTER
		NEW EQUIPMENT OR PIPING	EF	EXHAUST FAN
		REMOVE EXISTING EQUIPMENT OR PIPING	ELECT	ELECTRICAL
	FD	FLEX DUCT	EQPT.	EQUIPMENT
		SIDEWALL REGISTER	ETR	EXISTING TO REMAIN
		CEILING REGISTERS/DIFFUSERS	*F	DEGREES FAHRENHEIT
		DUCT SECTION - POSITIVE PRESSURE	F/A	FROM ABOVE
		DUCT SECTION - NEGATIVE PRESSURE	F/B	FROM BELOW
		DUCT SECTION - EXHAUST	FLR	FLOOR
		CARBON DIOXIDE (CO2) SENSOR/DETECTOR	FT	FEET OR FOOT
		ROOM THERMOSTAT/TEMPERATURE SENSOR	Fc	FLEX CONNECTOR
		DOOR UNDERCUT	GALV	GALVANIZED
		DUCT SMOKE DETECTOR	GPM	GALLONS PER MINUTE
		PIPE TEE UP	HD	HEAD
		PIPE TEE DOWN	HP	HORSEPOWER
		PIPE DOWN	HR	HOURL
		PIPE UP	HVAC	HEATING VENTILATION & AIR CONDITIONING
	VD	VOLUME DAMPER	KW	KILOWATT
	CD	CEILING DIFFUSER	LBS	POUNDS
	GV	GATE VALVE	LSR	LINEAR SUPPLY AIR REGISTER
	PG	PRESSURE GAUGE W/ GAUGE COCK	MAX	MAXIMUM
	TH	THERMOMETER	MECH	MECHANICAL
	U	UNION	MFR	MANUFACTURER
	P&T RV	PRESSURE & TEMPERATURE RELIEF VALVE	MIN	MINIMUM
		CHECK VALVE	MTD	MOUNTED
	CV	CONTROL VALVE (ELECTRIC, 3 WAY)	(N)	NEW
	PRV	PRESSURE REDUCING VALVE	NIC	NOT IN CONTRACT
	AV	MANUAL AIR VENT VALVE	NOS	NUMBERS
	GL V	GLOBE VALVE	OB	OPPOSED BLADE DAMPER
	BV	BALL VALVE	OSA	OUTSIDE AIR
	BF V	BUTTERFLY VALVE	OPER	OPERATING
	BC	BALANCING COCK	PD	PRESSURE DROP
	STR	STRAINER	PSI	POUNDS PER SQUARE INCH
	TW	TEST WELL (PETE'S PLUG)	PSIG	POUNDS PER SQUARE INCH GAUGE
	AHU	AIR HANDLING UNIT	PE	POLYURETHANE
	AH	AIR HANDLER	QTY	QUANTITY
	BDD	BALANCED BACKDRAFT DAMPER	RA	RETURN AIR
	BHP	BRAKE HORSE POWER	RG	RETURN AIR GRILLE
	BTU	BRITISH THERMAL UNITS	RAD	RETURN AIR DUCT
	BTUH	BRITISH THERMAL UNITS PER HOUR	RR	RETURN AIR REGISTER
	CAV	CONSTANT AIR VOLUME	SA	SUPPLY AIR
	CD4	CEILING DIFFUSER (4 WAY THROW)	SAD	SUPPLY AIR DUCT
	CFM	CUBIC FEET PER MINUTE	SR	SUPPLY AIR REGISTER
	CWS	CONDENSER WATER SUPPLY	SF	SQUARE FEET
	CWR	CONDENSER WATER RETURN	SFD	SMOKE/FIRE DAMPER
	DWGS	DRAWINGS	SHT	SHEET
	DG	DOOR GRILLE	SS	STAINLESS STEEL
	SFD	COMBINATION SMOKE/FIRE DAMPER	TEMP	TEMPERATURE
	HHWS	HEATING HOT WATER SUPPLY	TYP	TYPICAL
	HHWR	HEATING HOT WATER RETURN	TA	TRANSFER AIR
		FLEXIBLE PIPE CONNECTION	T/A	TO ABOVE
	RL	REFRIGERANT LIQUID LINE	T/B	TO BELOW
	RS	REFRIGERANT SUCTION LINE	TR	TRANSFER REGISTER
	VD	VOLUME DAMPER WITH CONCEALED REGULATOR	V/PH/Hz	VOLTS/PHASE/HERTZ
		BALANCING VALVE W/ PRESSURE PORTS	VCD	VARIABLE VOLUME CONTROL
		THERMOSTAT	VOL	VOLUME
		MOTOR OR ACTUATOR	VTR	VENT THRU ROOF
		FLOW SWITCH	W/	WITH
		FAN SPEED CONTROLLER	WC	WATER COLUMN
		DUCT WITH 1" ACOUSTIC LINING	WPD	WATER PRESSURE DROP
		DUCT WITH 1" ACOUSTIC LINING	WT	WEIGHT
	(E)	EXISTING	MUA	MAKE UP AIR
	BD	BY-PASS DAMPER	ZD	ZONE DAMPER

### EQUIPMENT IDENTIFICATION SYMBOL



## MECHANICAL SPECIFICATIONS

- GENERAL PROVISIONS - THE GENERAL CONDITIONS, SUPPLEMENTS AND AMENDMENTS SHALL GOVERN THIS DIVISION OF THE SPECIFICATIONS.
- PROJECT REQUIREMENTS - PROVIDE ALL ITEMS, MATERIALS, EQUIPMENT AND LABOR REQUIRED TO COMPLETE THE WORK OR OPERATIONS MENTIONED HEREIN, OR INDICATED ON THE DRAWINGS AND REASONABLY INFERRED THEREIN, AS REQUIRED TO MAKE A COMPLETE AND WORKING SYSTEM.
- INTENT - WORK SHALL BE DONE IN ACCORDANCE WITH THE DRAWINGS AND SPECIFICATIONS AND THEIR INTENT, COMPLETE WITH ALL NECESSARY COMPONENTS, INCLUDING THOSE NOT NORMALLY SHOWN OR CALLED FOR, AND SHALL BE READY FOR OPERATION BEFORE ACCEPTANCE.

ALL WORK SHALL BE DONE IN ACCORDANCE WITH ALL APPLICABLE CODES. NOTHING SHOWN IN THE PLANS OR STATED IN THE SPECIFICATIONS IS INTENDED TO INDICATE THAT THE INSTALLATION OR CONNECTIONS OF ANY ITEM OR DEVICE SHOULD BE DONE CONTRARY TO MANUFACTURERS INSTRUCTIONS AND ALL APPLICABLE CODES AND REGULATIONS. THE CONTRACTOR IS RESPONSIBLE TO ENSURE THAT THE INSTALLATION AND CONNECTIONS OF ALL ITEMS AND DEVICES CONFORMS TO MANUFACTURERS INSTRUCTIONS AND TO ALL APPLICABLE CODES AND REGULATIONS.

THE WORK "PROVIDE" SHALL MEAN "SUPPLY AND INSTALL" UNLESS OTHERWISE INDICATED.
- GOVERNING REGULATIONS - THE WORK UNDER MECHANICAL SCOPE OF WORK, SHALL CONFORM, BUT NOT LIMITED TO THE REQUIREMENTS OF THE FOLLOWING CODES, REGULATIONS AND STANDARDS:

- 2019 EDITIONS OF THE CALIFORNIA BUILDING CODE, INCLUDING BUT NOT LIMITED TO THE MECHANICAL, PLUMBING, FIRE AND ENERGY CODES.
- SMACNA PUBLICATIONS, INCLUDING BUT NOT LIMITED TO, HVAC DUCT CONSTRUCTION STANDARDS AND GUIDELINES FOR SEISMIC RESTRAINT OF MECHANICAL SYSTEMS.
- AABC OR NEBB REGULATIONS GOVERNING TESTING AND BALANCING AND COMMISSIONING OF SYSTEMS.
- OSHA REGULATIONS.

- PERMITS - OBTAIN ALL REQUIRED PERMITS AND PAY ALL FEES THEREFORE AND COMPLY WITH ALL LOCAL AND STATE REGULATIONS, CODES AND BY-LAWS APPLICABLE TO THE WORK.

- RESPONSIBILITY - VISIT THE SITE BEFORE SUBMITTING A BID AND EXAMINE ALL LOCAL AND EXISTING CONDITIONS ON WHICH THE WORK IS DEPENDENT.

NO CONSIDERATION WILL BE GRANTED FOR ANY MISUNDERSTANDING OF WORK TO BE DONE RESULTING FROM FAILURE TO VISIT THE SITE.

WHEN THE CONTRACT DOCUMENTS DO NOT CONTAIN SUFFICIENT INFORMATION FOR THE PROPER SELECTION OF EQUIPMENT FOR BIDDING, NOTIFY THE DESIGN AUTHORITY DURING THE BIDDING PERIOD. IF CLARIFICATION CANNOT BE OBTAINED, ALLOW FOR THE MOST EXPENSIVE ARRANGEMENT. FAILURE TO DO THIS SHALL NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY TO SUPPLY THE INTENDED EQUIPMENT AND OR INSTALLATION.

CHECK DRAWINGS OF ALL TRADES AND SITE SURVEY TO VERIFY SPACE AVAILABILITY FOR THE INSTALLATION. COORDINATE WORK WITH ALL TRADES AND MAKE CHANGES TO FACILITATE SATISFACTORY INSTALLATION. MAKE NO DEVIATIONS TO THE DESIGN INTENT INVOLVING EXTRA COST TO THE OWNER WITHOUT DESIGN AUTHORITY WRITTEN APPROVAL.

- WORKMANSHIP - WORKMANSHIP SHALL BE IN ACCORDANCE WITH WELL ESTABLISHED PRACTICE AND STANDARDS ACCEPTED AND RECOGNIZED BY DESIGN AUTHORITY AND THE TRADE.

EMPLOY ONLY TRADESMEN HOLDING VALID TRADE QUALIFICATION CERTIFICATES. TRADESMEN SHALL PERFORM ONLY WORK THAT THEIR CERTIFICATE PERMITS.

- DRAWING AND MEASUREMENTS - DRAWINGS ARE GENERALLY DIAGRAMMATIC AND ARE INTENDED TO INDICATE THE SCOPE AND GENERAL ARRANGEMENT OF WORK. DO NOT SCALE DRAWINGS.

TAKE FIELD MEASUREMENTS WHERE EQUIPMENT AND MATERIAL DIMENSIONS ARE DEPENDENT UPON BUILDING DIMENSIONS.

- SUBMITTALS - SUBMIT THREE SETS OF ALL EQUIPMENT AND RELATED MATERIAL FOR APPROVAL PRIOR TO ORDERING. AFTER 10 DAYS FROM CONTRACT AWARD, SUBMIT DUCT SHOP DRAWINGS TO ARCHITECT FOR ENGINEERS REVIEW.

- RECORD DRAWINGS - MAINTAIN ONE CONTRACT DRAWING, WHITE PRINT, ON SITE, SOLELY FOR THE PURPOSE OF RECORDING, IN RED, ANY CHANGES AND/OR DEVIATION FROM THE CONTRACT DRAWINGS AS IT OCCURS.

AT THE COMPLETION OF THE PROJECT, CERTIFY THE ABOVE-MENTIONED DRAWINGS AS BEING ACCURATE AND COMPLETE BY LABELING IN THE LOWER RIGHT HAND CORNER IN LETTERS OF AT LEAST 1/2 INCH HIGH AS FOLLOWS: "AS-BUILT DRAWINGS, DATED ---". DELIVER TO DESIGN AUTHORITY.

- OPERATING AND MAINTENANCE MANUALS - PREPARE INSTRUCTION MANUALS WHICH INCLUDE EQUIPMENT MANUFACTURER'S OPERATING AND MAINTENANCE BULLETINS, AND A REPORT ON THE TESTING AND BALANCING. SUBMIT THREE (3) COPIES TO DESIGN AUTHORITY.

- SERVICES - PROTECT ALL SERVICES AND MAKE GOOD ANY DAMAGE CAUSED BY THE WORK IN THIS CONTRACT.

THE PLANS SHOW APPROXIMATE LOCATIONS OF DUCTWORK, PIPING AND EQUIPMENT BASED UPON EXISTING RECORD DRAWINGS. BE PREPARED TO ACCOMMODATE CHANGES IN LOCATION AS MAY BE FOUND ON SITE.

- DUCTWORK CLEANING - ALL NEW DUCTWORK SHALL BE WIPED CLEAN OF ALL OIL AND OTHER SURFACE FILMS WITH SUITABLE SOLVENT PRIOR TO INSTALLATION.

ALL SUPPLY AND RETURN DUCTWORK SHALL BE THOROUGHLY CLEANED BY A PROFESSIONAL DUCT CLEANING AGENCY PRIOR TO REUSE.

- CLEAN UP - MAKE GOOD AND CLEAN ALL AREAS DISRUPTED BY THIS WORK.

- BALANCING - AIR SYSTEMS - BALANCING SHALL BE DONE BY AN AABC OR NEBB CERTIFIED FIRM. ADJUST AIR HANDLING EQUIPMENT AND ASSOCIATED BALANCE DAMPERS ON SUPPLY, RETURN AND EXHAUST SYSTEMS TO WITHIN PLUS OR MINUS 10% OF THE SPECIFIED AIR QUANTITIES. MAINTAIN THE DESIGN PRESSURE RELATIONSHIPS.

ADJUST DIFFUSERS, REGISTERS AND GRILLES TO OBTAIN OPTIMUM AIR DISTRIBUTION PATTERN.

MEASURE OUTSIDE AIR QUANTITIES AND CONFIRM THAT THE SPECIFIED OUTSIDE AIR QUANTITIES PER TITLE-24 CALCULATIONS HAVE BEEN PROVIDED THROUGHOUT.

PERMANENTLY MARK THE FINAL BALANCE POSITION ON ALL BALANCE DAMPERS AND ADJUSTABLE TURNING DEVICES.

SUBMIT A REPORT TO THE DESIGN AUTHORITY INDICATING FINAL AIR QUANTITIES OBTAINED.

- EQUIPMENT START UP AND COMMISSIONING

CHECK AND ADJUST REFRIGERANT CHARGE AS REQUIRED FOR PROPER OPERATION.

BALANCE AC UNITS TO PROVIDE SPECIFIED AIR FLOWS.

PROVIDE ALL AC UNITS WITH NEW MERV 8 FILTERS.

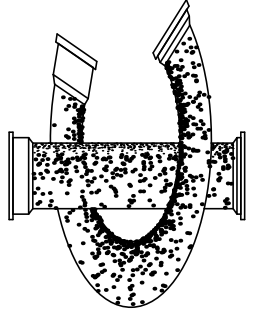
TEST ALL EQUIPMENT AND MAKE GOOD.

## HVAC GENERAL NOTES

- CONTRACTOR SHALL CAREFULLY REVIEW THESE PLANS AND SPECIFICATIONS PRIOR TO BID. CONTRACTOR SHALL ALSO REVIEW PLANS AND SPECIFICATIONS OF OTHER RELATED TRADES (INCLUDING ARCHITECTURAL, CIVIL, STRUCTURAL AND ELECTRICAL) PRIOR TO BID TO ENSURE AN ACCURATE UNDERSTANDING OF EXACT SCOPE OF WORK. ANY ITEMS REQUIRING CLARIFICATION SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT IN SUFFICIENT TIME TO BE INCORPORATED INTO THE BID.
- CONTRACTOR SHALL VERIFY ALL EQUIPMENT MODEL NUMBERS, CAPACITIES, SIZES, VOLTAGES, AND ALL OTHER SCHEDULED INFORMATION WITH ALL OTHER APPLICABLE TRADES AND WITH THE MANUFACTURER PRIOR TO INSTALLATION.
- CONTRACTOR SHALL VERIFY ALL LOCATIONS, SIZES, P.O.C.'S, AND AVAILABILITY OF ALL EXISTING ITEMS (I.E.: OUTSIDE AIR, EXHAUST ETC.) PRIOR TO INSTALLATION OF ANY MATERIAL OR EQUIPMENT.
- THESE DRAWINGS ARE ESSENTIALLY DIAGRAMMATIC AND ARE NOT INTENDED TO INDICATE ALL NECESSARY OFFSETS OF DUCTWORK AND PIPING. THE CONTRACTOR SHALL INSTALL MATERIAL AND EQUIPMENT IN A MANNER AS TO CONFORM TO STRUCTURE, AVOID OBSTRUCTIONS, PRESERVE HEADROOM, AND KEEP OPENINGS AND PASSAGEWAYS CLEAR. ALL INSTALLATIONS SHALL BE CONSISTENT WITH NORMALLY ACCEPTABLE INDUSTRY STANDARDS. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT IN WRITING OF ANY DISCREPANCIES OR CONFLICTS THAT WOULD AFFECT THE SYSTEM PERFORMANCE OR WHICH WOULD INCUR ADDITIONAL COSTS. THIS NOTIFICATION SHALL BE MADE PRIOR TO THE INSTALLATION OF THE ITEMS CONCERNED.
- NEW AND/OR EXISTING EQUIPMENT INDICATED ON THIS DRAWING IS SHOWN IN APPROXIMATE POSITION(S). CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS INCLUDING EQUIPMENT LOCATIONS, P.O.C.'S AND STRUCTURAL MEMBERS PRIOR TO INSTALLATION. IN ALL CASES, ADEQUATE ACCESS (PER MANUFACTURER'S RECOMMENDATIONS AND CODE COMPLIANCE) FOR MAINTENANCE AND REPLACEMENT OF EQUIPMENT SHALL BE PROVIDED.
- ALL WORK SHALL BE DONE IN ACCORDANCE WITH ALL APPLICABLE CODES. NOTHING SHOWN IN THE PLANS OR STATED IN THE SPECIFICATIONS IS INTENDED TO INDICATE THAT THE INSTALLATION OF CONNECTIONS OF ANY ITEM OR DEVICE SHOULD BE DONE CONTRARY TO THE MANUFACTURER'S INSTRUCTIONS AND ALL APPLICABLE CODES AND REGULATIONS. THE CONTRACTOR IS RESPONSIBLE TO ENSURE THAT THE INSTALLATION AND CONNECTIONS OF ALL ITEMS AND DEVICES CONFORM TO MANUFACTURER'S INSTRUCTIONS AND TO ALL APPLICABLE CODES AND REGULATIONS.
- ALL HVAC EQUIPMENT, MATERIAL, AND ALL CONNECTION THERETO SHALL BE INSTALLED COMPLETE PER MANUFACTURER'S INSTRUCTIONS TO PROVIDE A COMPLETE AND FULLY OPERATIONAL SYSTEM.
- DUCT SIZES INDICATED ON DRAWINGS ARE INSIDE NET CLEARANCE DIMENSIONS.
- CONTRACTOR MAY, AT HIS OPTION, WITH PRIOR APPROVAL FROM ENGINEER REVISE DUCTWORK SIZING AND ROUTING TO ALLOW FOR INSTALLATION IN THE AVAILABLE SPACE. DUCTWORK THAT IS RESIZED MUST MAINTAIN THE SAME CROSS-SECTIONAL AREA.
- ALL NEW SUPPLY, RETURN, AND EXHAUST (AIR DISTRIBUTION) GRILLES, REGISTERS, AND DIFFUSERS SHALL MATCH (IF APPLICABLE) EXISTING, AND BE APPROVED BY ARCHITECT. THE MAXIMUM NOISE NC LEVEL SHALL BE 25.
- ALL SUPPLY, RETURN, AND EXHAUST REGISTER CONNECTIONS TO DUCTWORK SHALL BE PROVIDED WITH ACCESSIBLE MANUAL VOLUME DAMPERS. ALTERNATIVELY, ACCESSIBLE MANUAL VOLUME DAMPERS MAY BE PROVIDED IN DUCT WORK FEEDER LINES SERVING INDIVIDUAL REGISTERS. PROVIDE ACCESS DOOR AND PANEL AS REQUIRED.
- SUBSTITUTION OF HVAC EQUIPMENT WITH EFFICIENCIES LOWER THAN THOSE INDICATED ON THE PLANS IS NOT PERMITTED.
- IF THE CONTRACTOR'S USE OF SUBSTITUTE MATERIALS, EQUIPMENT, OR METHODS OF INSTALLATION REQUIRES ANY CHANGES IN OTHER TRADES' WORK FROM THAT SHOWN ON THE DRAWINGS, THE EXTRA COST OF THE OTHER TRADES WORK SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR INITIATING THE SUBSTITUTION.
- SUBMITTALS: APPROVAL OF SUBMITTALS DOES NOT RELEASE THE CONTRACTOR FROM OBLIGATIONS TO COMPLY WITH ALL REQUIREMENTS OF THE CONSTRUCTION DOCUMENTS OR APPLICABLE CODE REGULATIONS.
- WHERE NONMETALLIC PIPING PENETRATES AREA SEPARATION WALLS, THE PIPE SECTION PASSING THROUGH THE WALLS AND THE FIXTURE CONNECTIONS THERETO SHALL BE OF METAL ONLY.
- NO RANGE HOODS, DRYER VENTS, COMBUSTION VENTS, OR HEATING DUCTS ARE PERMITTED IN AREA SEPARATION WALLS.
- CONTRACTOR TO VERIFY LOCATION OF FIRE AND FIRE/SMOKE BARRIER WALLS WITH ARCHITECT PRIOR TO FIRE AND/OR SMOKE DAMPER, DETECTOR AND ACTUATOR INSTALLATION.
- ALL CEILING FIRE DAMPERS TO BE ONE (1) HOUR U.L. AND C.S.F.M. APPROVED.
- ALL ONE HOUR WALL SHALL BE APPROVED WITH ONE HOUR FIRE DAMPERS BOTH U.L. AND C.S.F.M. APPROVED.
- ALL TWO HOUR WALLS SHALL BE APPROVED WITH TWO HOUR FIRE DAMPERS BOTH U.L. AND C.S.F.M. APPROVED.
- ALL SMOKE BARRIER WALLS SHALL BE PROVIDED WITH U.L. AND C.S.F.M. APPROVED SMOKE/FIRE DAMPERS (EQUAL TO WALL RATING), MOTOR, ACTUATOR, AND SMOKE DETECTOR.
- ALL PENETRATIONS OF ONE (1) HOUR CORRIDOR WALLS AND CEILINGS THAT WOULD REQUIRE THE INSTALLATION OF A FIRE DAMPER SHALL BE APPROVED WITH A U.L. AND C.S.F.M. APPROVED COMBINATION SMOKE/FIRE DAMPER, (EQUAL TO WALL RATING), MOTOR, ACTUATOR, AND SMOKE DETECTOR.
- PROVIDE ALL FIRE & SMOKE DAMPERS WITH ACCESS DOORS AS NECESSARY.
- PROVIDE BALANCING DAMPERS ON ALL OUTSIDE AIR, EXHAUST AIR, SUPPLY AIR AND RETURN AIR SYSTEMS THROUGH OUT. DAMPERS ARE NOT INDICATED ON PLANS BUT ARE REQUIRED AT ALL BRANCH TAKE-OFFS.
- PROVIDE TURNING VANES ON ALL 90 DEGREE SQUARE ELBOWS.
- PROVIDE FLEXIBLE DUCT CONNECTIONS WITH MINIMUM 1" GAP ON THE SUPPLY AND RETURN DUCT CONNECTIONS ON ALL FANS.
- ALL SUPPLY AND RETURN DUCTWORK FROM AC UNITS SHALL BE LINED WITH 1" ACOUSTIC INSTALLATION TO MINIMUM 15 FEET FROM THE FAN UNLESS NOTED TO BE LONGER. PROVIDE PERFORATED LINING. DUCT SIZE SHALL BE INCREASED TO PROVIDE THE CLEAR INSIDE DIMENSIONS AS NOTED ON PLANS.
- KITCHEN EXHAUST DUCTS SHALL BE INSULATED WITH 2 HOUR RATED FIRE WRAP OR EQUIVALENT.
- VERIFY MECHANICAL EQUIPMENT LOCATION & DUCT ROUTING WITH ENGINEERING PRIOR TO CONSTRUCTION.
- MATERIAL EXPOSED WITHIN DUCTS OR PLENUMS SHALL BE NONCOMBUSTIBLE OR SHALL HAVE FLAME SPREAD INDEX NOT GREATER THAN 25 AND SMOKE DEVELOP INDEX NOT GREATER THAN 50 (2019 CMC SECTION 602.2)

Revisions	By

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A Fire Repair for:  
San Jose Tattoo  
1924 W. San Carlos St.  
San Jose, CA. 95128



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SYMBOLS LIST, GENERAL NOTES,  
ABBREVIATIONS & DRAWING INDEX

SCALE

NTS

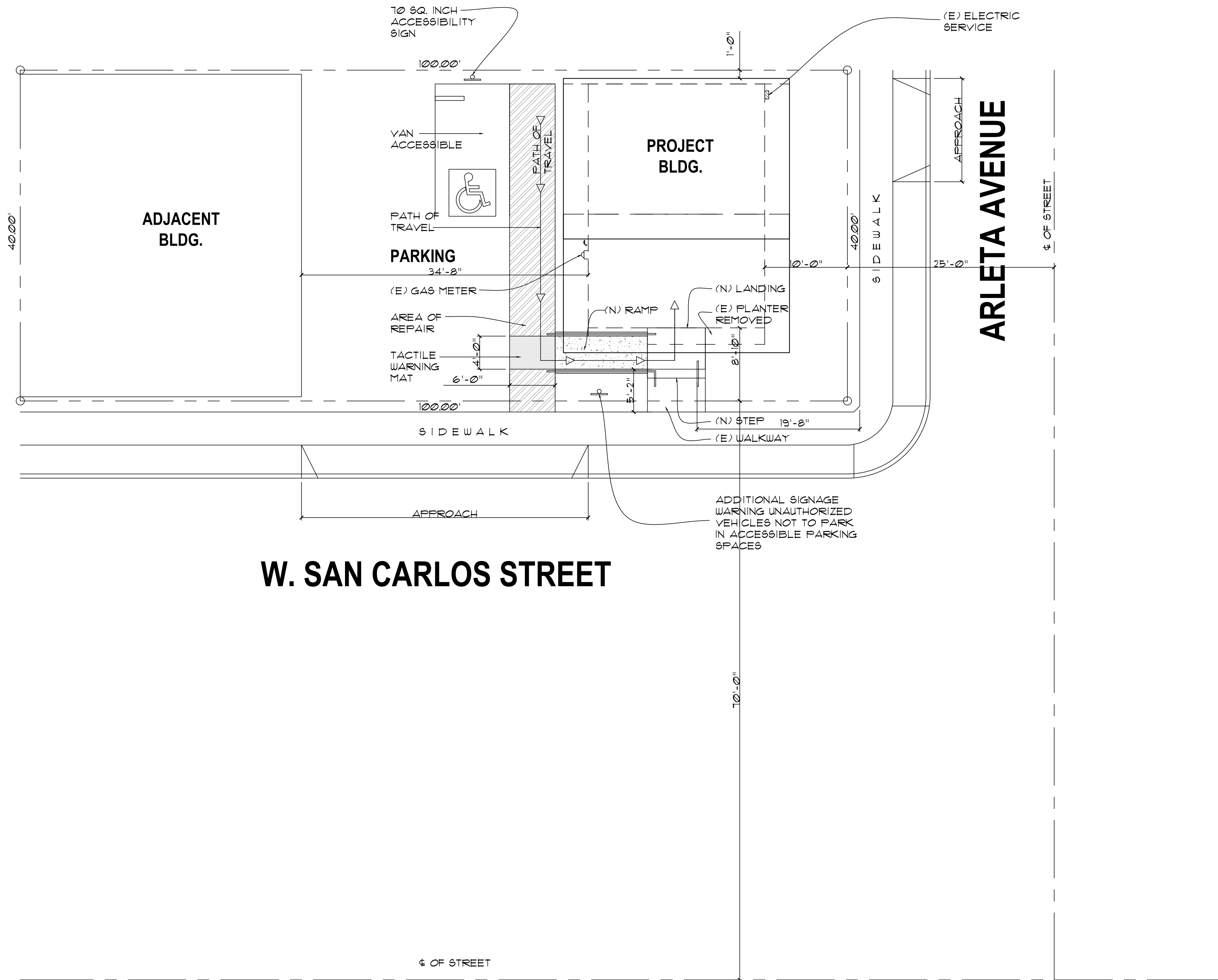


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SITE PLAN

1/8"=1'-0

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SITE PLAN

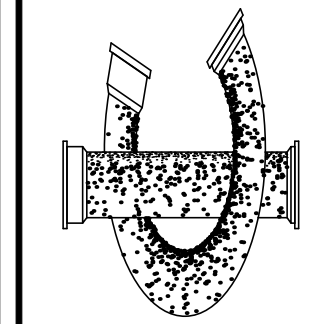
SCALE 1/8"=1'-0"

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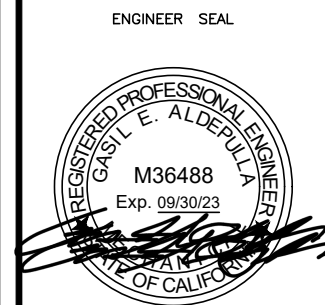
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Scale AS NOTED

Drawn GEA

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WINDOW TYPE AIR CONDITIONING UNIT SCHEDULE																
MARK	MANUFACTURER & MODEL	SERVICE	SUPPLY AIR (CFM)	E.S.P.	AIR VOLUME M/HR	TOTAL COOLING CAP (BTUH)	TOTAL HEATING CAP (BTUH)	REFRIG. PIPE (IN.)	ELECTRICAL DATA					OPER. WEIGHT (KG.)	QTY.	REMARKS
									POWER INPUT	OPERATING CURRENT	VOLT	PH	HZ			
WT 1	MITSUBISHI WRK35MB2 OR APPROVED EQUAL.	OFFICE	-	-	-	12,000	-	R410A	1150	5.2	220	1	50	-	1	EXISTING
WT 2	MITSUBISHI WRK53MB2 OR APPROVED EQUAL.	TATTOO ROOM	-	-	-	18,000	-	R410A	1750	7.8	220	1	50	-	1	EXISTING

- 1 WINDOW TYPE MOUNTED UNIT.
- 2 INSTALL AS PER MANUFACTURER'S RECOMMENDATION.

GALVANIZED SHEET METAL DUCT THICKNESS TABLE				
(FOR LOW PRESSURE DUCTWORKS W/S.P. LESS THAN 2" W.G., LESS THAN 2000 FPM)				
RECTANGULAR				
DIMENSION:	4"-18"	19"-30"	31"-54"	55"-84"
GAUGE:	26 ga.	24 ga.	22 ga.	20 ga.
ROUND				
DIMENSION:	3"-14"	15"-23"	24"-37"	37"-50"
GAUGE:	26 ga.	24 ga.	22 ga.	20 ga.
DUCT CONSTRUCTION SHALL COMPLY SMACNA META LAND FLEXIBLE DUCT CONSTRUCTIONS STANDARD OR UL 181.				

HEATING AND COOLING DUCT SYSTEM					
AIRFLOW CFM	SUPPLY OR RETURN MAIN DUCT SIZE			TABLE A	
200	8" RD	OR	6" X 8'		
300	9" RD	OR	8" X 8'		
400	10" RD	OR	10" X 8'		
500	11" RD	OR	14" X 8'	10" X 10"	
600	12" RD	OR	16" X 8'	12" X 10"	
700	13" RD	OR	18" X 8'	14" X 10"	12" X 12"
800	14" RD	OR	22" X 8'	16" X 10"	14" X 12'
1000	16" RD	OR	28" X 8'	20" X 10"	16" X 12'
1200	17" RD	OR	32" X 8'	24" X 10"	20" X 12'
1400	18" RD	OR		28" X 10"	24" X 12'
1600	20" RD	OR		32" X 10"	28" X 12'
1800	21" RD	OR			30" X 12'
2000	22" RD	OR			34" X 12'
AIRFLOW CFM	SUPPLY BRANCH DUCT SIZE			TABLE B	
80	5" RD				
120	6" RD OR 3-1/2" X 10"				
160	7" RD				

Revisions	By

INNOVATIVE CONCEPTS

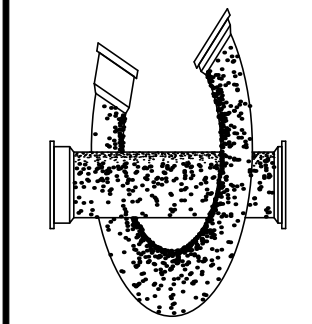
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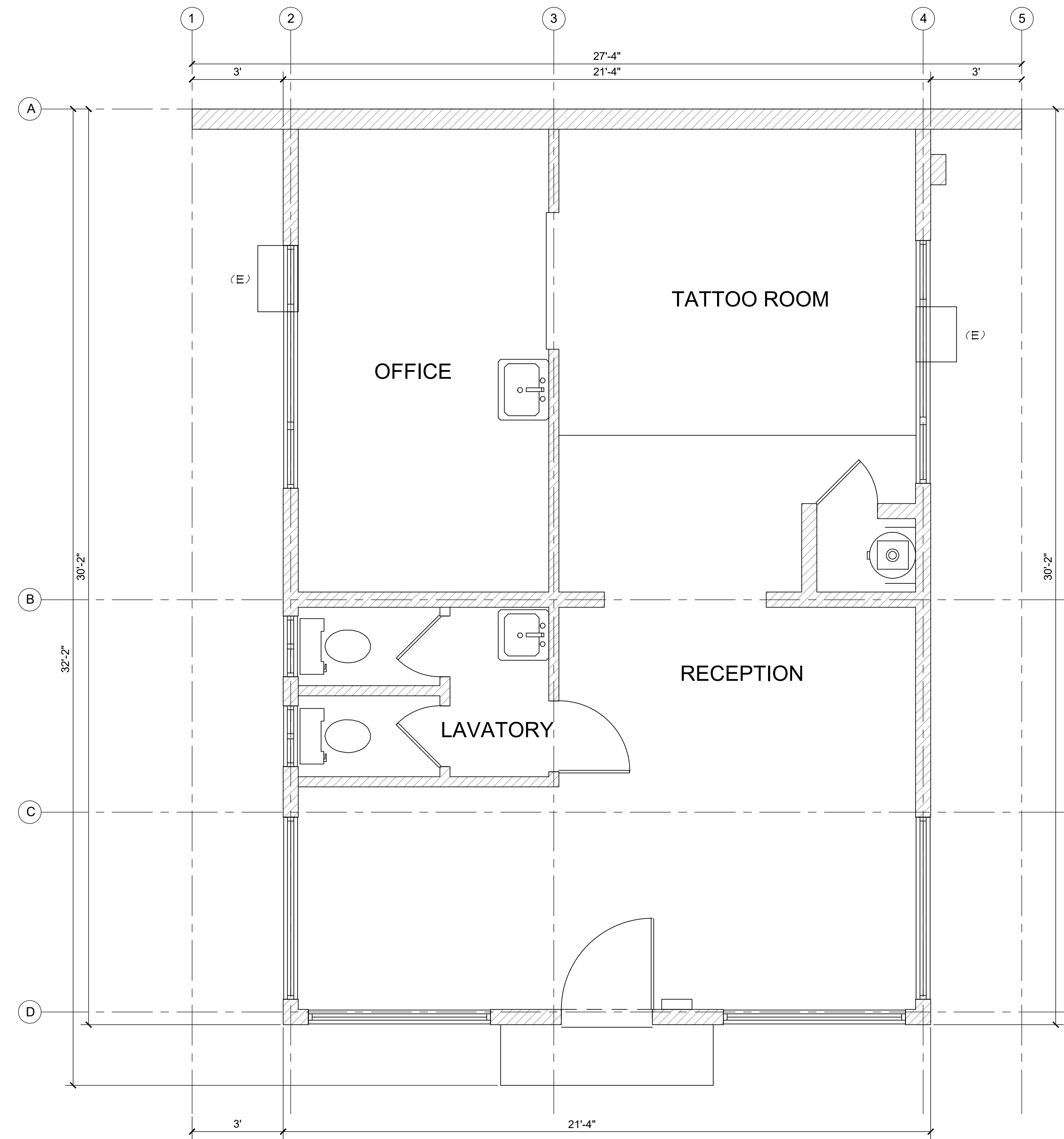


GENERAL NOTES

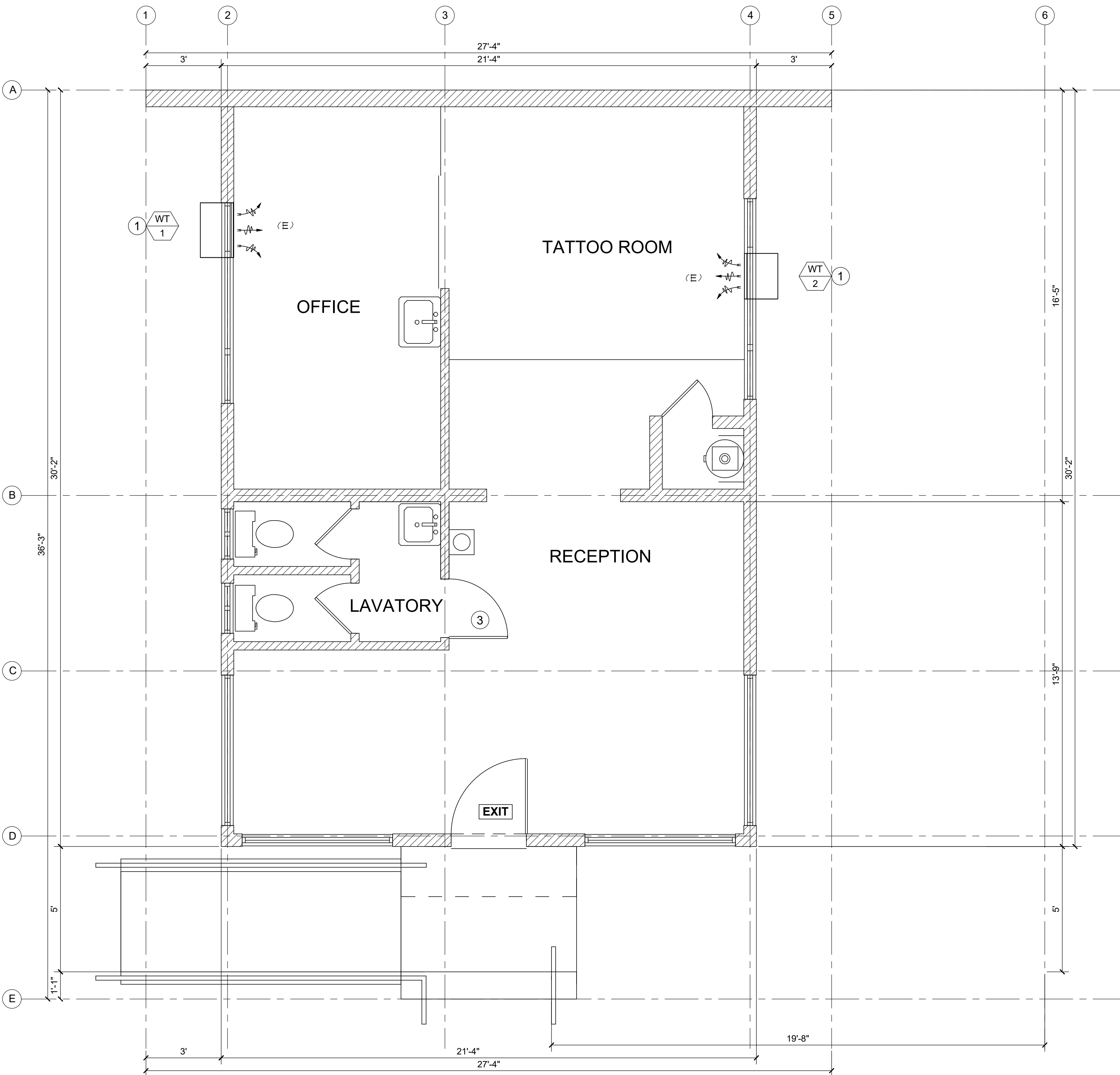
A. CONTRACTOR SHALL FIELD VERIFY EXACT LOCATION PRIOR TO START OF WORK. IN THE EVENT OF ANY DISCREPANCIES OR POTENTIAL CONFLICTS, NOTIFY THE ARCHITECT AND ENGINEER IN WRITING PRIOR TO START OF WORK.

KEY NOTES

- 1 EXISTING WINDOW TYPE AIR CONDITION UNIT, PLEASE SEE SHEET NO. M1.1 FOR UNIT SPECIFICATION AND #1/M3.0 FOR MOUNTING DETAIL AND OR COORDINATE WITH ARCHITECT.



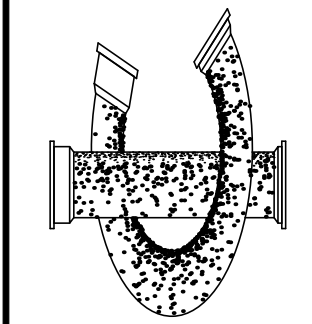
1 EXISTING GROUND FLOOR MECHANICAL LAYOUT  
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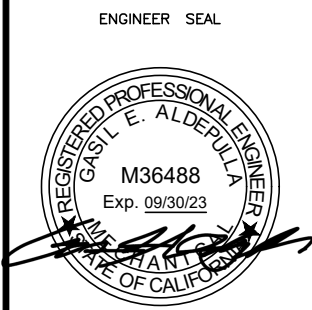
2 PROPOSED GROUND FLOOR MECHANICAL LAYOUT  
SCALE 3/8"=1'-0"

Revisions	By

INNOVATIVE CONCEPTS  
PROFESSIONAL BUILDING DESIGN AND PLANNING  
3550 Stevens Creek Blvd, Ste 225  
San Jose, CA 95117  
Phone: (408) 985-1078 Fax: (408) 985-1343  
E-Mail: innpcp@sbcglobal.net



A Fire Repair for:  
San Jose Tattoo  
1924 W. San Carlos St.  
San Jose, CA. 95128



Date 05/10/2021  
Scale AS NOTED  
Drawn GEA  
Job  
Sheet

M2.1

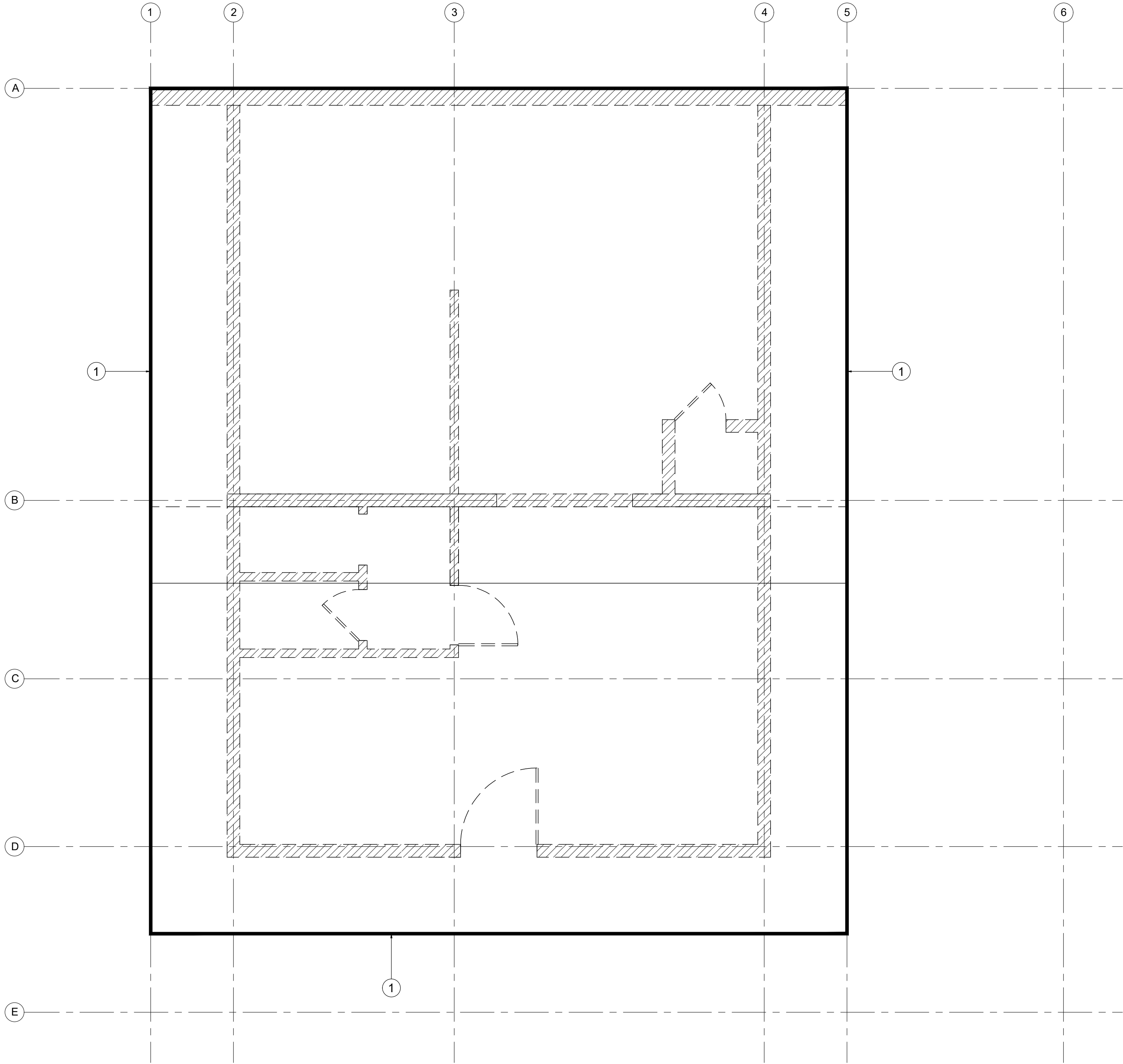


GENERAL NOTES

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KEY NOTES

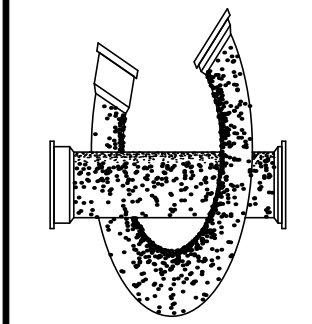
1 ROOF BOUNDARY, PLEASE REFER TO ARCHITECTURAL FOR DETAILS



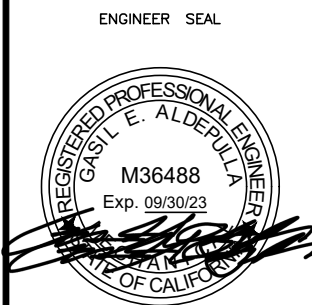
ROOF MECHANICAL LAYOUT  
SCALE 3/8"=1'-0"

Revisions	By

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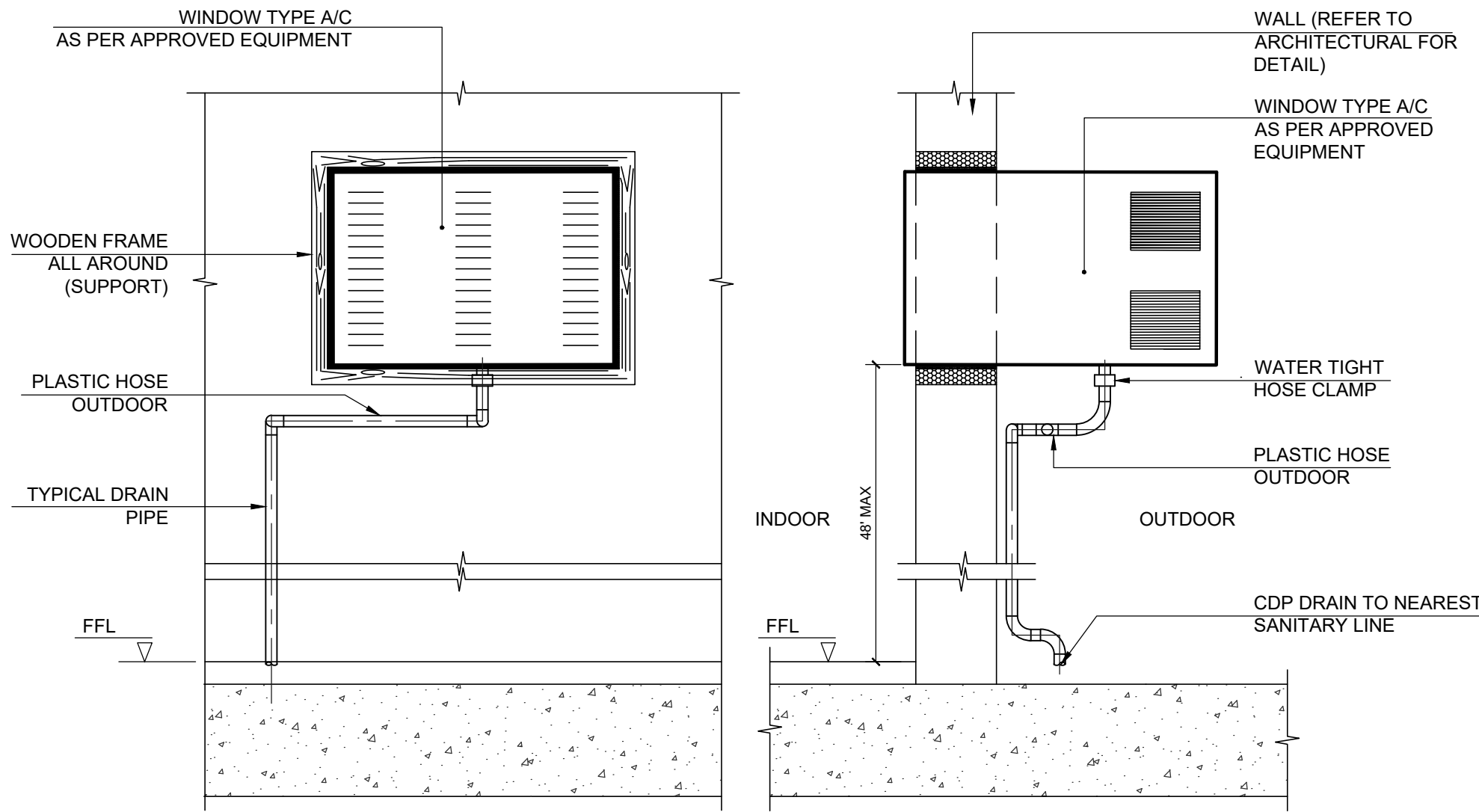
A Fire Repair for:  
San Jose Tattoo  
1924 W. San Carlos St.  
San Jose, CA 95128



Date	05/10/2021
Scale	AS NOTED
Drawn	GEA
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Sheet	

M2.2



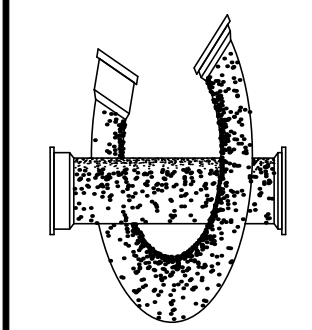


WINDOW TYPE AC DETAIL

SCALE	1
NONE	

Revisions	By

INNOVATIVE CONCEPTS  
PROFESSIONAL BUILDING DESIGN AND PLANNING  
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E-Mail: inncp@sboglobal.net



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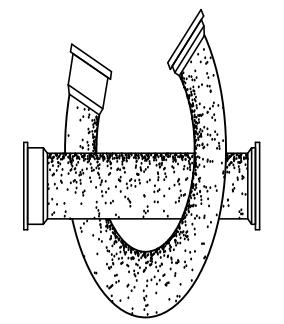
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M3.0



Revisions	By
12/11/2020	TR

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**PROFESSIONAL BUILDING DESIGN AND PLANNING**  
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A Fire Repair for:  
San Jose Tattoo  
1924 W. San Carlos St.  
San Jose, CA. 95128

# Symbols List, Notes, Abbreviations & Index

Date 09/17/2020

Scale NOTED

Drawn	GF
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Job	
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Sheet




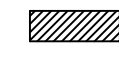







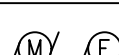

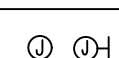

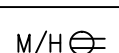

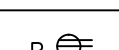

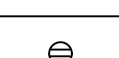



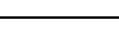



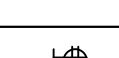

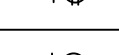

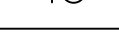



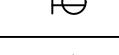

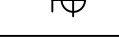



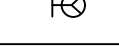

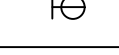

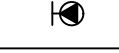





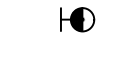




















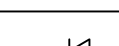


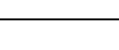



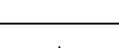

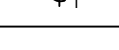

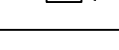

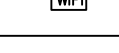
E1.0

Of Sheets

## ELECTRICAL SYMBOLS

-REFER TO LIGHTING SCHEDULE IN SHEET E4.0

(SOME SYMBOLS ARE SHOWN FOR REFERENCE ONLY)

	SPST TOGGLE SWITCH – 20A, 120/277V, "o" INDICATES CONTROL		FLUSH OR SURFACE MOUNTED BRANCH CIRCUIT PANEL
	3-WAY TOGGLE SWITCH – 20A, 120/277V, "o" INDICATES CONTROL		SWITCHBOARD OR DISTRIBUTION BOARD
	SPST KEY SWITCH – 20A, 120/277V.		COMBINATION STARTER DISCONNECT SWITCH
	MOMENTARY CONTACT SWITCH. SINGLE POLE DOUBLE THROW U.O.N. LOW VOLTAGE OVERRIDE SWITCH "R1" – RELAY CONTROLLED.		DISCONNECT SWITCH, MOTOR RATED, "F" INDICATES SWITCH TO BE FURNISHED WITH FUSES, SIZE TO EQUIPMENT NAMEPLATE DATA.
	MANUAL MOTOR STARTER SWITCH WITH INTEGRAL OVERLOAD HEATERS.		EMERGENCY POWER OFF (PANIC BUTTON)
	WALL SWITCH WITH INTEGRAL NEON PILOT LIGHT		AND MOTOR, FURNISHED AND INSTALLED BY OTHERS. "M" DENOTES HORSEPOWER WHEN KNOWN.
	(2) SINGLE POLE SWITCH		JUNCTION BOX OR OUTLET FOR DIRECT CONNECTION; VERIFY HT. IN FIELD
	INCANDESCENT DIMMER SWITCH. ALSO USED A FLUORESCENT DIMMER "F"; AND AS A LOW VOLTAGE DIMMER "L".		MICROWAVE / HOOD CONNECTION ONLY – F&IBO;
	"3" INDICATES A THREE WAY SWITCH		VERIFY REQUIREMENTS IN FIELD 250 VOLT RECEPTACLE U.O.N. (D = 30 AMP FOR DRYER PLUG
	WALL MOUNTED MOTION SENSOR PASSIVE INFRARED TYPE "1" – SINGLE LEVEL LIGHTING WATTSTOPPER MDL NO. FW-100 "2" – DUAL LEVEL LIGHTING OR TWO LOADS WATTSTOPPER MDL NO. FW-200 120V 800W OR EQUAL.		DUPLEX RECEPTACLE MOUNTED ON CEILING
	WALL MOUNTED MOTION SENSOR ULTRASONIC TYPE "1" – SINGLE LEVEL LIGHTING WATTSTOPPER MDL NO. UW-100 MDL NO. 120V 800W OR EQUAL. "2" – DUAL LEVEL LIGHTING OR TWO LOADS WATTSTOPPER MDL NO. UW-200 120V 800W OR EQUAL.		QUADRUPLEX RECEPTACLE MOUNTED ON CEILING
	WALL MOUNTED MOTION SENSOR/DIMMER COMBINATION "1" – SINGLE LEVEL LIGHTING 120V 800W OR EQUAL. "2" – DUAL LEVEL LIGHTING OR TWO LOADS 120V 800W OR EQUAL. INCANDESCENT DIMMER SWITCH "D"; FLUORESCENT DIMMER "F"; AND AS A LOW VOLTAGE DIMMER (0-10V) "L".		DUPLEX RECEPTACLE MOUNTED ON WALL MINIMUM OF 15 INCHES MEASURED TO THE BOTTOM OF THE RECEPTACLE OUTLET BOX OR RECEPTACLE HOUSING ABOVE FINISHED FLOOR.
	CEILING MOUNTED MOTION SENSOR		QUADRUPLEX RECEPTACLE MOUNTED ON WALL +15" A.F.F. U.O.N.
	CEILING MOUNTED DAYLIGHT SENSOR		DUPLEX GFCI RECEPTACLE MOUNTED ON WALL +15" A.F.F. U.O.N.
	CEILING MOUNTED SMOKE DETECTOR		QUADRUPLEX RECEPTACLE ON A DEDICATED CIRCUIT
	THERMOSTAT		HALF SWITCHED DUPLEX RECEPTACLE
	CEILING MOUNTED CARBON MONOXIDE DETECTOR		208V, 60A RECEPTACLE, NEMA CONFIGURATION TO BE VERIFIED WITH OWNER, U.O.N.
	CEILING MOUNTED HEAT DETECTOR		208V, 20A RECEPTACLE, NEMA CONFIGURATION TO BE VERIFIED WITH OWNER, U.O.N.
	TIME CLOCK		208V, 30A RECEPTACLE, NEMA CONFIGURATION TO BE VERIFIED WITH OWNER, U.O.N.
	POWER PACK RELAY MODULE		20A RECEPTACLE, NEMA CONFIGURATION TO BE VERIFIED WITH OWNER, U.O.N.
	NURSE CALL DEVICE		480V, 3ø RECEPTACLE NEMA CONFIGURATION TO BE VERIFIED WITH OWNER, U.O.N.
	LOW VOLTAGE MULTI-CONDUCTOR CABLE – PLENUM RATED WHERE REQUIRED, NOT INSTALLED IN CONDUIT.		DUPLEX GFCI RECEPTACLE ABOVE COUNTER
	CONDUIT – CONCEALED IN WALLS OR CEILING IF POSSIBLE, 1/2" WITH (2) #12 THHN/THWN Cu & (1) #12 THHN/THWN Cu GROUND U.O.N.		CORD DROP RECEPTACLE
	CONDUIT – IN OR BELOW FLOOR, 3/4" WITH (2) #12 THHN/THWN Cu & (1) #12 THHN/THWN Cu GROUND U.O.N.		CATV OUTLET
	CONDUIT – EXPOSED, 1/2" WITH (2) #12 THHN/THWN Cu & (1) #12 THHN/THWN Cu GROUND U.O.N.		HOME NETWORK OUTLET FOR TV, PHONE, DATA
	TYPE MC CABLE 3/C #12 WITH GND (MINIMUM NUMBER OF CONDUCTOR AND WIRE SIZE)		COMBO DUPLEX GFCI RECEPTACLE & DUAL USB OUTLET – 15" BOD-UON FOR PENINSULA OR ISLAND COUNTER MOUNT NO MORE THAN 12" BELOW CTR.
	TRANSFORMER, 2 WINDING Δ – DELTA Y – WYE Y – WYE GROUNDED NEUTRAL		DOOR BELL
	UTILITY KWH METER		ELEVATOR PIT DUPLEX RECEPTACLE, LIGHT AND SWITCH
	MOLDED CASE CIRCUIT BREAKER, "100" EQUALS TRIP RATING, "3" INDICATES NUMBER OF POLES, "150" EQUALS FRAME SIZE.		FLUSH FLOOR DUPLEX RECEPTACLE
	ENCLOSED MOLDED CASE CIRCUIT BREAKER, "100" EQUALS TRIP RATING, "3P" INDICATES NUMBER OF POLES.		FLUSH FLOOR QUADRUPLEX RECEPTACLE
	DRAWOUT INSULATED CASE OR AIR CIRCUIT BREAKER WITH INDICATIONS ABOVE.		FLUSH FLOOR TELEPHONE OUTLET
	EQUIPMENT GROUND FAULT DETECTION WITH TEST/MONITOR PANEL.		FLUSH FLOOR COMBINATION TELEPHONE/DATA OUTLET
	FUSED SWITCH, CLASS L OR R FUSES AS NOTED. "100" INDICATES SWITCH SIZE, "70" INDICATES FUSE SIZE, "3" INDICATES POLES.		FLUSH FLOOR RECEPTACLE AND TELEPHONE BOX
	PANEL BREAKER SIZE AS NOTED, MAIN LUGS ONLY UNLESS MAIN BREAKER SHOWN, "100/3" INDICATES MAIN BREAKER SIZE.		DATA OUTLET
	PANEL BREAKER SIZE AS NOTED, MAIN LUGS ONLY UNLESS MAIN BREAKER SHOWN, "100/3" INDICATES MAIN BREAKER SIZE.		TELEPHONE OUTLET +15" AFF UON
	PANEL BREAKER SIZE AS NOTED, MAIN LUGS ONLY UNLESS MAIN BREAKER SHOWN, "100/3" INDICATES MAIN BREAKER SIZE.		TV/DATA/ TELEPHONE OUTLETS (1-RJ45; 1-RJ11 JACKS) CAT 6 CABLE (4PK) EACH JACK AND 1 "F" CONNECTOR W/ DUAL COAXIAL CABLE TO TERMINATE AT COMMUNICATION BOX (/)-INDICATES ABOVE COUNTER
	PANEL BREAKER SIZE AS NOTED, MAIN LUGS ONLY UNLESS MAIN BREAKER SHOWN, "100/3" INDICATES MAIN BREAKER SIZE.		DOUBLE POLE, SINGLE THROW HORSE POWER RATED SWITCH WITH THERMAL OVERLOAD
	PANEL BREAKER SIZE AS NOTED, MAIN LUGS ONLY UNLESS MAIN BREAKER SHOWN, "100/3" INDICATES MAIN BREAKER SIZE.		SECURITY CAMERA
	PANEL BREAKER SIZE AS NOTED, MAIN LUGS ONLY UNLESS MAIN BREAKER SHOWN, "100/3" INDICATES MAIN BREAKER SIZE.		PROVIDE 1 CAT 6 CABLE WIRELESS INTERNET CONNECTION, VERIFY LOCATION WITH CONSULTANT
	PANEL BREAKER SIZE AS NOTED, MAIN LUGS ONLY UNLESS MAIN BREAKER SHOWN, "100/3" INDICATES MAIN BREAKER SIZE.		FIRE DEPARTMENTS 2-WAY COMMUNICATION HANDSET
	PANEL BREAKER SIZE AS NOTED, MAIN LUGS ONLY UNLESS MAIN BREAKER SHOWN, "100/3" INDICATES MAIN BREAKER SIZE.		WIRELESS CARD RECEIVER
	PANEL BREAKER SIZE AS NOTED, MAIN LUGS ONLY UNLESS MAIN BREAKER SHOWN, "100/3" INDICATES MAIN BREAKER SIZE.		DOOR HOLDER – CONNECT TO LOCAL SMOKE DETECTOR
	PANEL BREAKER SIZE AS NOTED, MAIN LUGS ONLY UNLESS MAIN BREAKER SHOWN, "100/3" INDICATES MAIN BREAKER SIZE.		DUCT SMOKE DETECTOR – F & IBO; CONNECT TO FIRE ALARM PANEL.
	PANEL BREAKER SIZE AS NOTED, MAIN LUGS ONLY UNLESS MAIN BREAKER SHOWN, "100/3" INDICATES MAIN BREAKER SIZE.		FIRE/SMOKE DAMPER, PROVIDED & INSTALLED BY MECHANICAL CONTRACTOR. PROVIDE 120V 1 PHASE EMERG. CIRCUIT, CONTROL, AND STATUS WIRING TO FACP (LIFE SAFETY SYSTEM).

MISC.

①	SHEET NOTE SYMBOL
<div style="border: 1px solid black; padding: 2px; display: inline-block;">A</div>	LIGHTING FIXTURE TAG, SEE LIGHTING FIXTURE SCHEDULE AND FLOOR PLAN(S)
<div style="border: 1px solid black; padding: 2px; display: inline-block;">3</div>	SHEET NOTE SYMBOL
<div style="border: 1px solid black; padding: 2px; display: inline-block;">1</div>	REVISION REFERENCE SYMBOL - SEE ASSOCIATED REVISION NOTE.

## ABBREVIATIONS

AFB	ABOVE FINISHED FLOOR	GEN	GENERATOR	PB	PULL BOX
AL	ALUMINUM CONDUCTOR OR BUS	GFI	GROUND FAULT INTERRUPTER	PE	PHOTO ELECTRIC CELL
AM	AMMETER	GRD	GROUND	PNL	PANEL
ANN	ANNUNCIATING			PR	PAIR
ART	ARTICLE	HGT	HEIGHT		
AUTO	AUTOMATIC	HP	HORSE POWER	QTY	QUANTITY
AUX	AUXILIARY	HPS	HIGH PRESSURE SODIUM		
AWG	AMERICAN WIRE GAUGE	HTR	HEATER	R	REMOVE OR RELOCATE
		HW	HOT WATER	REC	RECEPTACLE
BD	BOARD			RECEPT	RECEPTACLE
BKBD	BACK BOARD	IG	ISOLATED GROUND	REF	REFRIGERATOR; REFERENCE
BKR	BREAKER	INCAND	INCANDESCENT	REQ'D	REQUIRED
BTM	BOTTOM			RL	RELOCATED
		JB	JUNCTION BOX		
CAB	CABINET			SCHED	SCHEDULE
CB	CIRCUIT BREAKER	KV	KILOVOLT	SECT	SECTION
CCTV	CLOSED CIRCUIT TELEVISION	KVA	KILOVOLT AMPERE	SM	SIMILAR
CKT	CIRCUIT	KW	KILOWATT	SQ	SQUARE
CO	CONDUIT ONLY			SW	SWITCH
CU	COPPER CONDUCTOR OR BUS	LT	LIGHT	SWBD	SWITCHBOARD
		LTG	LIGHTING	SWGR	SWITCHGEAR
				SYS	SYSTEM
DD	DUCT DETECTOR				
DIA	DIAMETER	MAX	MAXIMUM		
DIM	DIMENSION	MCB	MAIN CIRCUIT BREAKER	TBD	TO BE DETERMINED
DISC	DISCONNECT	MCC	MOTOR CONTROL CENTER	TC	TIME CLOCK
DN	DOWN	MCW	MILLI CIRCULAR MILS	TEL	TELEPHONE
DS	DISCONNECT SWITCH	MIN	MINIMUM	TEMP	TEMPERATURE; TEMPERATURE
		MISC	MISCELLANEOUS	TI	TENANT IMPROVEMENT
(E)	EXISTING	MLO	MAIN LUG ONLY	TRANS	TRANSFORMER
(ER)	EXISTING TO REMAIN	MTD	MOUNTED	TTB	TELEPHONE TERMINAL BACKBOARD
EA	EACH	MTG	MOUNTING	TV	TELEVISION
EC	ELECTRICAL CONTRACTOR	MTR	MOTOR	TYP	TYPICAL
EM	EMERGENCY				
EQ	EQUAL	N	NORTH	UC	UNDER CABINET
EQUIP	EQUIPMENT	NC	NORMALLY CLOSED	UG	UNDERGROUND
EXP	EXPOSURE PROOF	NEC	NATIONAL ELECTRIC CODE	UL	UNDERWRITERS LABORATORY
EXH	EXHAUST	NEUT	NEUTRAL	UON	UNLESS OTHERWISE NOTED
		NIC	NOT IN CONTRACT	V	VOLT
FA	FIRE ALARM	NO	NORMALLY OPEN	W	WALL MOUNTED; WATT
FACP	FIRE ALARM ANNUNCIATING PANEL	NTS	NOT TO SCALE	W/	WITH
FBO	FURNISHED BY OTHERS			W/O	WITH OUT
FIN	FINISH	OL	OVERLOAD	WP	WEATHER PROOF
FLA	FULL LOAD AMPS	OS	OCCUPANCY SENSOR	XFMR	TRANSFORMER
FSD	FIRE SMOKE DAMPER				
FUT	FUTURE				

## GENERAL NOTES

3. ALL BATHROOM, OUTDOOR, AND KITCHEN COUNTER RECEPTACLES WITHIN SIX FEET OF A SINK ARE TO BE GFCI PROTECTED.
2. ALL NEW ELECTRICAL OUTLETS ON NEW WALLS SHALL BE FLUSH MOUNTED AND NEW OUTLETS ON EXISTING WALL SHALL BE SURFACE MOUNTED.
3. WALL MOUNTED OUTLETS DRAWN IN A LINE, OUT FROM THE WALL, SHALL BE CENTERED ABOVE EACH OTHER, AT SCHEDULED HEIGHTS. MOUNT ALL BOXES ON SAME SIDE OF STUD. USE BAR HANGERS OR SCRAP BLOCKS TO CENTER THE BOXES TO EACH OTHER.
4. ELECTRICAL OUTLETS LOCATED ON OPPOSITE SIDES OF ALL FIRE-RATED WALLS SHALL BE SEPARATED BY A HORIZONTAL DISTANCE OF AT LEAST 24 INCHES.
5. WHEN KITCHEN OR BATH OUTLETS AT WALLS CANNOT BE MOVED TO THE NEXT STUD BAY, FILL THE STUD BAY (OR PORTION OF) WITH FIRE RETARDANT MATERIAL SATISFACTORY TO LOCAL BUILDING / FIRE INSPECTION.
6. PROVIDE A W.P. RECEPTACLE NO FARTHER THAN 25 FEET FROM ANY OUTDOOR EQUIPMENT. SIMILARLY, PROVIDE A STANDARD RECEPTACLE FOR EQUIPMENT IN ATTICS OR MECHANICAL ROOMS.
7. PROVIDE DISCONNECTING MEANS FOR ALL EQUIPMENT REQUIRING SUCH.
8. OUTLET BOXES LOCATED IN 1 HOUR RATED WALLS AND CEILINGS SHALL BE STEEL OR 1 HOUR FIRE RATED PLASTIC AND SHALL HAVE ANNULAR SPACE SEALED WITH 1 HR RATED FIRE STOPPING. PER IBC 300-21 AND CBC-709, 710.
9. ALL PLASTIC CONDUIT OR CABLE IN 1 HR WALLS SHALL HAVE A F RATING.
10. A 120V BRANCH CIRCUIT SERVING LOAD FOR MORE THAN 100 FEET, UPSIZE THE CONDUCTOR TO MINIMUM OF NEXT CONDUCTOR SIZE AND FOR 208V BRANCH CIRCUIT SERVING THE LOAD AT MORE THAN 200 FEET UPSIZE THE CONDUCTOR TO MINIMUM NEXT SIZE CONSIDERING VOLTAGE DROP.
11. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT/ENGINEER IN WRITING OF ANY DISCOVERED CONFLICTS BETWEEN EXISTING INSTALLATIONS WHICH ARE NOT SCHEDULED FOR DEMOLITION AND THE NEW WORK INDICATED WITHIN THE CONTRACT DOCUMENTS. SUCH NOTIFICATION SHALL BE ACCOMPANIED BY A DRAWING DELINEATING THE PROPOSED SOLUTION PRIOR TO STARTING ANY WORK IN THE AFFECTED AREA.
12. ELECTRICAL PLANS ARE DIAGRAMMATIC ONLY. COORDINATE WITH EQUIPMENT VENDOR TO VERIFY EXACT LOCATION AND CONNECTION REQUIREMENTS PRIOR TO INSTALLATION.
13. IF MATERIAL OR EQUIPMENT IS INSTALLED BEFORE IT IS APPROVED, THE CONTRACTOR SHALL BE LIABLE FOR ITS REMOVAL AND REPLACEMENT AT NO ADDITIONAL CHARGE OR IF IN THE OPINION OF THE ARCHITECT OR ENGINEER, THE MATERIAL OR EQUIPMENT DOES NOT MEET THE INTENT OF THE DRAWINGS AND SPECIFICATIONS.
14. CONTRACTOR TO PROVIDE DEDICATED CIRCUIT FOR CONNECTION TO EACH MECHANICAL EQUIPMENT CONTROL PANEL AS REQUIRED. COORDINATE EXACT LOCATION AND CONNECTION REQUIREMENTS WITH MECHANICAL AND CONTROLS CONTRACTORS.
15. ALL LOW VOLTAGE CONTROLS AND CONTROL WIRING SHALL BE PROVIDED BY THE CONTRACTOR THAT FURNISHES THE EQUIPMENT. ALL LINE VOLTAGE WIRING SHALL BE PROVIDED & UNDER THIS CONTRACT.
16. COORDINATE WITH ANY PROJECT DESIGN/BUILD TRADES FOR EXACT DATA AND LOCATION OF ALL EQUIPMENT. PROVIDE LINE VOLTAGE OUTLETS, WIRING AND DISCONNECTING MEANS. ALL OUTDOOR WIRING SHALL BE WEATHERPROOF.
17. STARTERS TO BE FURNISHED AND INSTALLED BY TRADE SUPPLYING MOTOR. CONNECTION BY E.C.

**SERVICE & DISTRIBUTION:**

1. COORDINATE WITH HVAC, PLUMBING AND SPRINKLER CONTRACTORS: NO PIPING OR DUCTWORK IS TO PASS THROUGH SWITCHGEAR ROOM OR PROTRUDE BELOW THE STRUCTURAL CEILING OVER THE SWITCHGEAR ROOM. REVIEW FINAL "CONSTRUCTION" PLUMBING, SPRINKLER AND HVAC SHOP DRAWINGS. IF SUCH CONFLICTS EXIST, NOTIFY ARCHITECT AT ONCE.
2. CONTRACTOR TO VERIFY ACTUAL AIC RATINGS FOR ALL EQUIPMENT FROM PG&E. SUBMITTING ON EQUIPMENT BELOW ACTUAL RATING DOES NOT RELIEVE CONTRACTOR OF NOTED RESPONSIBILITY.
3. USE C.L. FUSED MAINS. ALL BREAKERS IN SERVICE ROOM EQUIPMENT SHALL BE RATED TO MEET PG&E FAULT CURRENT REQUIREMENTS.
4. PROVIDE A DISCONNECTING MEANS FOR THE GROUNDED CONDUCTOR PER 2019 CEC 230 – 75.
5. ELECTRICAL CONTRACTOR (E.C.) TO PROVIDE OWNER WITH ONE SET OF SPARE FUSES FOR EACH SIZE OF FUSE USED IN PROJECT.
6. NO FEEDERS SHALL BE RUN IN SLABS, RACK IN CEILING OF GARAGE AND/OR ABOVE IN ATTIC SPACES.
7. ALL CONDUCTORS SHALL BE IDENTIFIED. ALL WIRING DEVICES SHALL BE USED WITH TYPED LABEL ON THE COVER PLATE IDENTIFYING THE PANEL DESIGNATION AND CIRCUIT NUMBER FROM WHICH THEY ARE FED.
8. OBTAIN APPROVAL FROM OWNER'S REPRESENTATIVE PRIOR TO ANY CORE DRILLING.

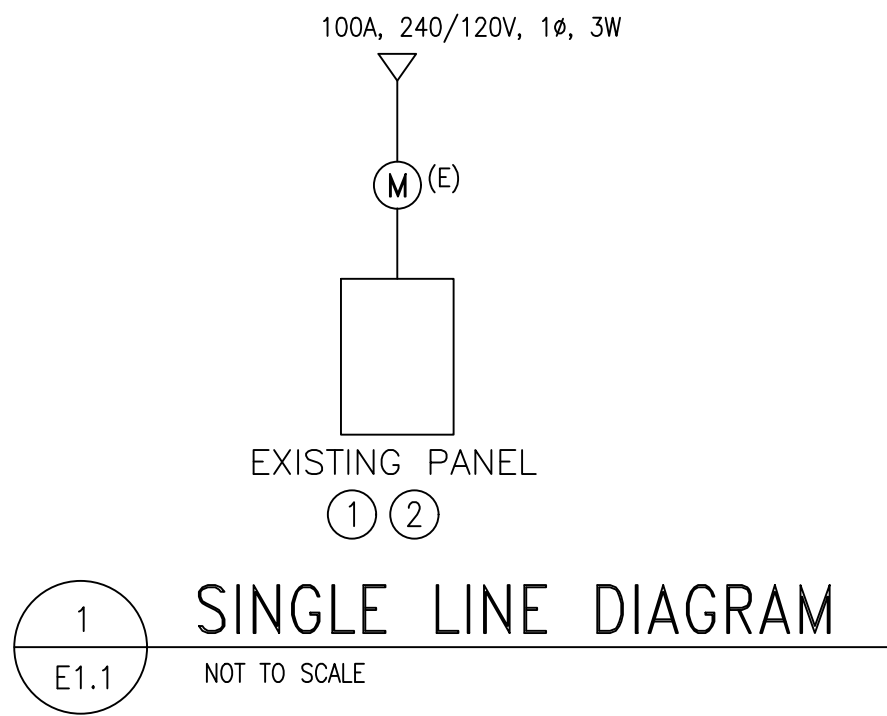
MISC:

1. ALL PENETRATIONS IN FIRE RATED WALLS AND CEILINGS SHALL COMPLY WITH CEC 300-21.
2. ALL MULTIWIRE BRANCH CIRCUITS SHALL COMPLY WITH 2019 CEC SECTION 210.4 FOR SIMULTANEOUS DISCONNECT AND GROUPING OF THESE CIRCUITS.
3. GENERAL USE OUTLET MOUNTING HEIGHTS AREAS SHALL BE NOT LESS THAN 15 INCHES ABOVE FINISHED FLOOR (AFF) TO THE BOTTOM OF THE OUTLET, CONTROL AND SWITCH MOUNTING HEIGHTS SHALL BE NO MORE THAN 48 INCHES TO THE TOP OF THE OUTLET BOX.
4. ALL ELECTRICAL WORK SHALL COMPLY WITH LATEST EDITION OF NEC AS AMENDED BY THE 2019 CEC, CEC 2019 TITLE 24.
5. LIGHTING FIXTURE IN FIRE RATED CEILING SHALL BE FIRE RATED OR PROVIDED WITH FIRE RATED ENCLOSURE OR FIRE RATED PAD.
6. ELECTRICAL WORK SHALL COMPLY WITH LATEST EDITION OF NATIONAL ELECTRICAL CODE (NEC) AS AMENDED BY THE 2019 CALIFORNIA ELECTRICAL CODE (CEC), THE 2019 CALIFORNIA BUILDING ENERGY EFFICIENCY STANDARDS, TITLE 24, PARTS 20 AND 24 (CEC).

DRAWING INDEX:

SHEET NO.	DESCRIPTION
E1.0	SYMBOL LISTS, NOTES, ABBREVIATIONS, AND INDEX
E1.1	SINGLE LINE DIAGRAM, PANEL SCHEDULE AND DETAILS
E1.2	ELECTRICAL POWER PLAN
E1.3	ELECTRICAL LIGHTING PLAN





PANEL: EXISTING PANEL				PANEL VOLTAGE: 120/240V				
LOCATION EXTERIOR				PHASE & WIRE: 1PH, 3W				
				BUSMAIN (AMPS): 100A				
CKT	OCD		DESCRIPTION	LOAD (KVA)				
NO.	A	P		MISC	WH	HVAC	REC	LTG
1			SPACE					
2			SPACE					
3			SPACE					
4			SPACE					
5			SPACE					
6			SPACE					
7			SPACE					
8			SPACE					
9			SPACE					
10	20	1	JUNCTION BOX - DOOR HARDWARE(N)	1	0.3			
11	20	1	EXISTING LOAD					1.4
12	20	1	EXISTING LOAD			1.0		
13	20	1	EXISTING LOAD				1.2	
14								
15	100	2	MAIN(E)					
CONNECTED LOAD (KVA)				0.3	0.0	1.0	1.2	1.4
TOTAL GENERAL LOAD (KVA)				2.9				
DEMAND FACTOR				X				
TOTAL DEMAND LOAD (KVA)				2.9				
TOTAL HVAC LOAD				1.0				
TOTAL DEMAND CURRENT (AMPS)				16.3				
X= 1ST 10KVA @ 100% + REMAINDER @ 40% (N.E.C. 220.82B)								
1 PROVIDE NEW CIRCUIT BREAKER TO MATCH THE EXISTING MANUFACTURER								

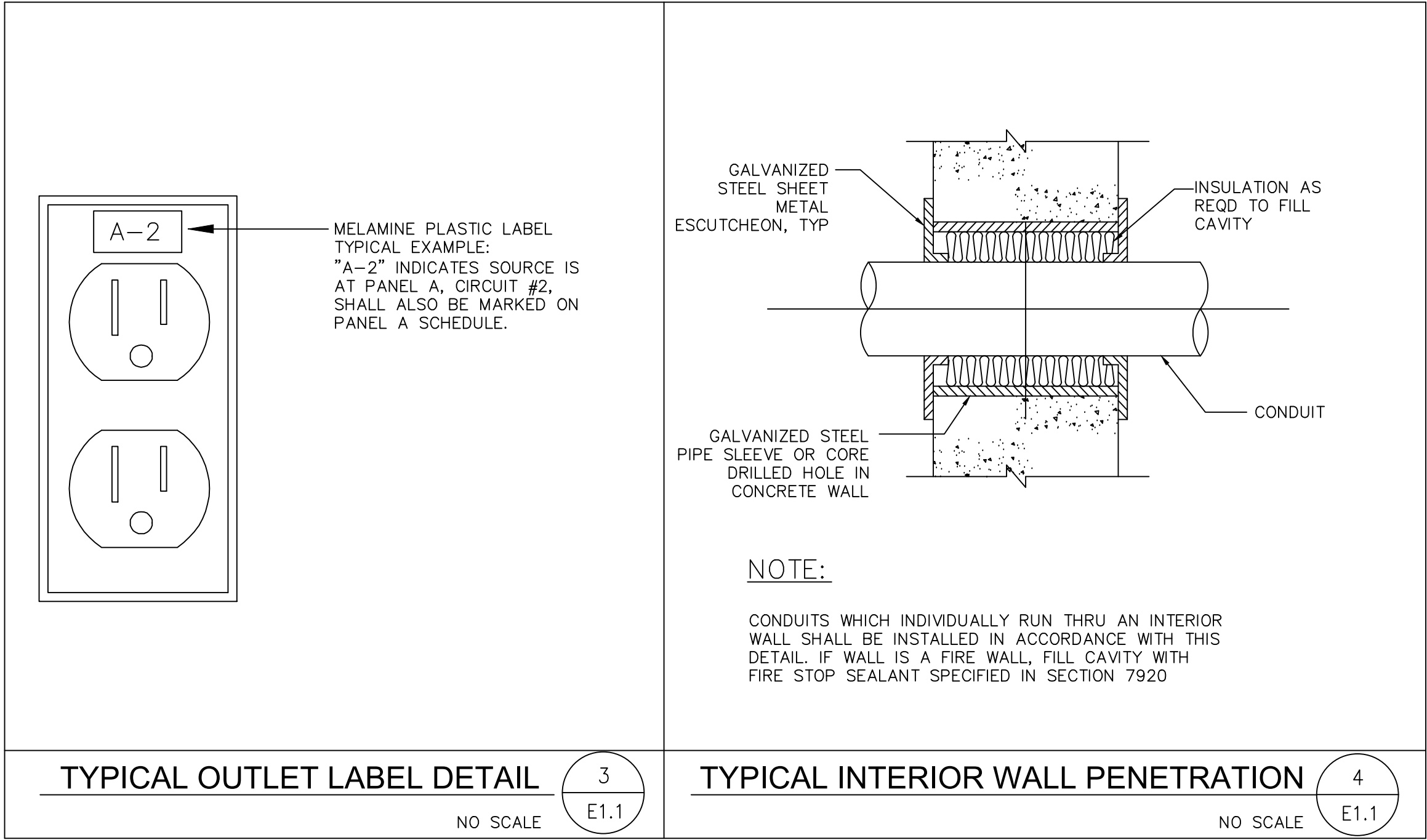


GENERAL NOTES:

- REFER TO ARCHITECTURAL DRAWINGS FOR FULL SCOPE OF WORK. FIELD VERIFY SCOPE IN PRE-BID JOB-WALK.
- ALL WORK SHALL COMPLY WITH THE LATEST EDITION OF NATIONAL ELECTRICAL CODE AS AMENDED BY THE LATEST EDITION OF CALIFORNIA ELECTRICAL CODE.
- CONTRACTOR IS RESPONSIBLE TO ENSURE EXISTING SYSTEMS OUTSIDE THE PRESENT SCOPE OF WORK TO BE IN GOOD WORKING CONDITION. ANY INTERRUPTIONS, DAMAGE TO EXISTING BUILDING AND ITS SYSTEMS SHALL BE MADE REPAIRED TO ITS FULL WORKING CONDITION AT NO EXTRA COST TO CLIENT/OWNER AND THEIR REPRESENTATIVES.
- COORDINATE WITH OTHER TRADES. SCHEDULE SHUT-DOWNS WITH BUILDING OWNER/ RESIDENT ENGINEER TO MINIMIZE ANY DISRUPTIONS TO NORMAL WORKING CONDITIONS OF THE EXISTING BUILDING AND IT'S OCCUPANTS. FIELD VERIFY.
- NEW CIRCUIT BREAKER (IF PROVIDED) MUST BE COMPATIBLE WITH EXISTING PANELBOARD (UL LISTED, MANUFACTURED BY THE PANELBOARD MANUFACTURER AND WHICH HAVE AN AIC RATING TO MATCH THE EXISTING PANEL RATING).
- ALL SPARE CIRCUIT BREAKERS NUMBER MADE AVAILABLE AFTER DEMOLITION ARE BASED ON THE EXISTING DOCUMENTS AND MAY BE INACCURATE. THE ACTUAL CIRCUIT NUMBERS MAY BE DIFFERENT AND SHALL BE VERIFIED IN FIELD DURING CONSTRUCTION.
- ALL NEW LOADS/BREAKERS ON EXISTING PANELS ARE SUFFIXED WITH (N).
- PROVIDE ARC FLASH WARNING LABELS FOR ALL NEW PANEL BOARDS.

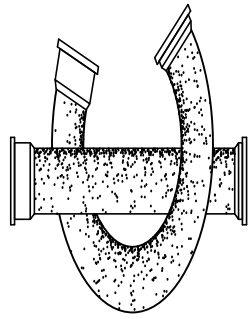
SHEET NOTES:

- PROVIDE UPDATED TYPEWRITTEN PANEL DIRECTORY AFTER COMPLETION OF PROJECT.
- ELECTRICAL CONTRACTOR TO CONFIRM THE ACTUAL RATING OF BRANCH CIRCUIT AND METER.



Revisions	By
12/11/2020	TR

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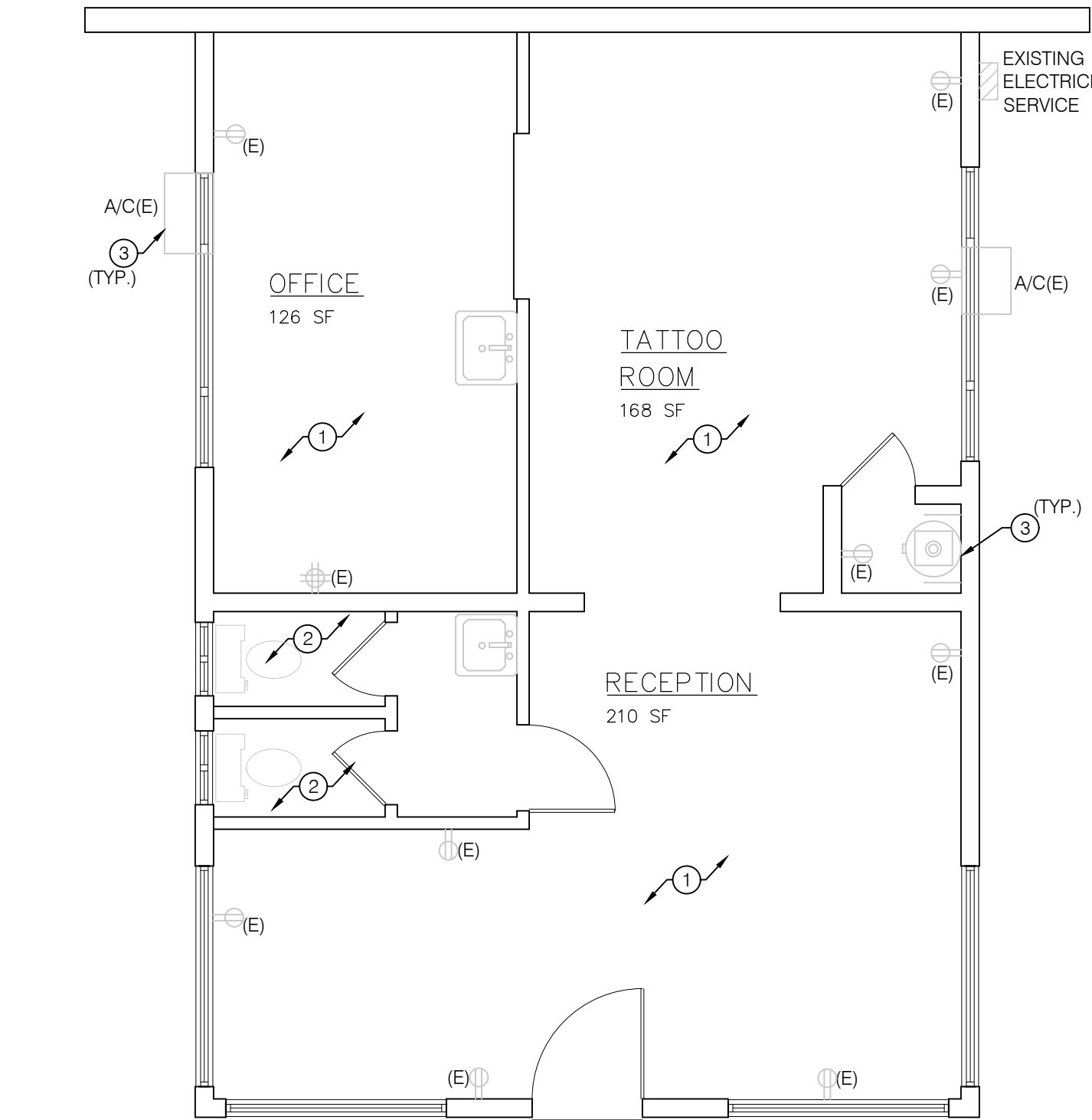


A Fire Repair for:  
San Jose Tattoo  
1924 W. San Carlos St.  
San Jose, CA. 95128

Single Line  
diagram, Panel  
schedules and  
details

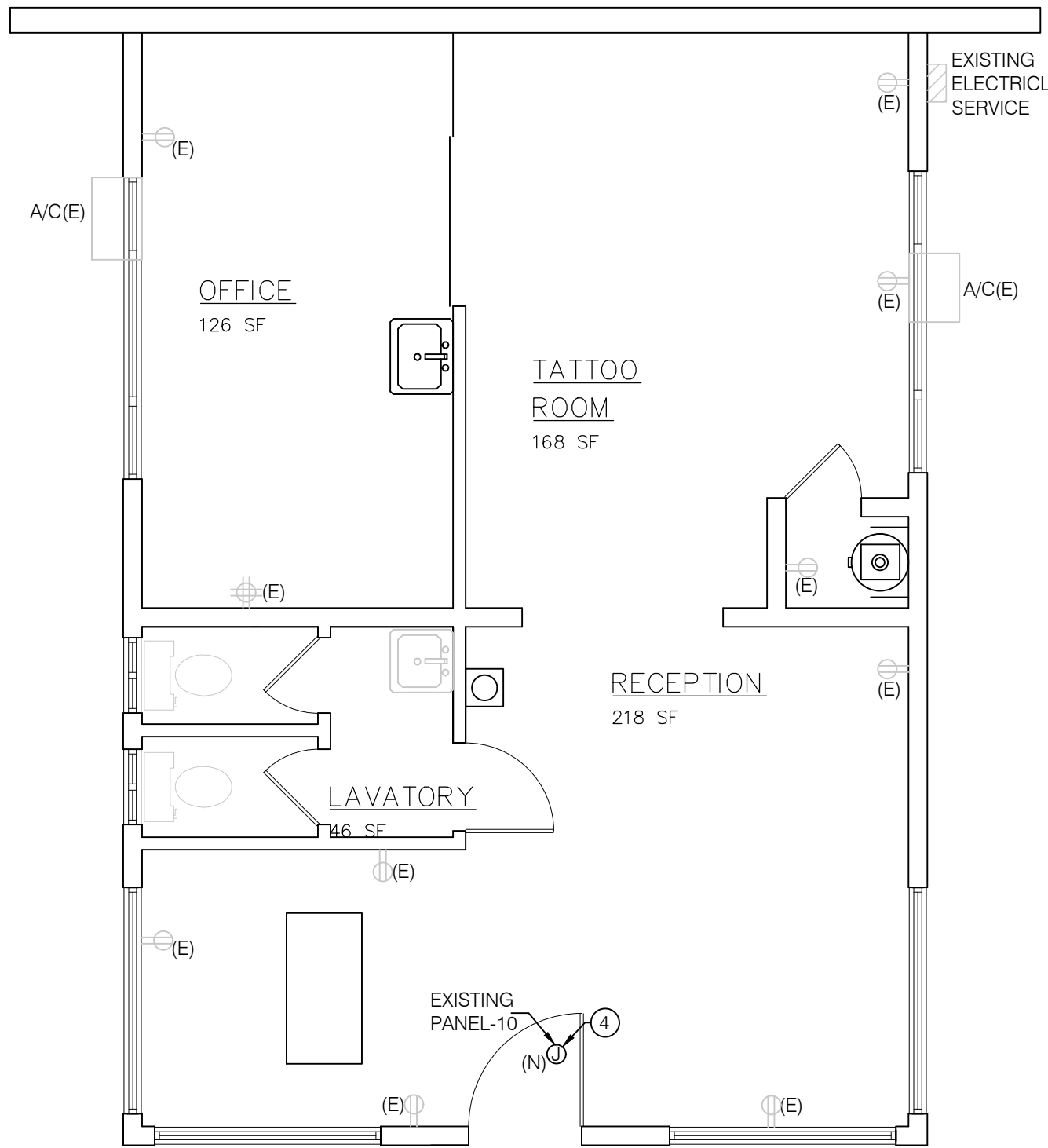
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1  
E1.2  
1/4" = 1'-0"

**ELECTRICAL EXISTING PLAN**



1  
E1.2  
1/4" = 1'-0"

**ELECTRICAL NEW POWER PLAN**

## GENERAL NOTES:

1. REFER TO ARCHITECTURAL DRAWINGS FOR FULL SCOPE OF WORK. FIELD VERIFY SCOPE IN PRE-BID JOB-WALK.
2. CONTRACTOR TO FIELD VERIFY ACTUAL DEMOLITION WORK AND COORDINATE WITH BUILDING ENGINEER / CLIENT'S SITE REPRESENTATIVE PRIOR TO ANY WORK.
3. ALL WORK SHALL COMPLY WITH THE LATEST EDITION OF NATIONAL ELECTRICAL CODE AS AMENDED BY THE LATEST EDITION OF CALIFORNIA ELECTRICAL CODE.
4. REFER TO MECHANICAL AND PLUMBING DEMOLITION DRAWINGS FOR ADDITIONAL EQUIPMENT TO BE DEMOLISHED.
5. UNLESS OTHERWISE NOTED, DEMOLISH ALL EXISTING ELECTRICAL DEVICES AND EQUIPMENT SHOWN OR NOT SHOWN ON PLANS AT DEMOLISHED WALL, CEILING, AND FLOOR SECTIONS THROUGHOUT THE AREA OF WORK. ABANDON CONCEALED EXISTING CONDUITS INSTALLED IN CONCRETE WALLS OR SLABS.
6. FOR ALL DEMOLISHED EQUIPMENT AND DEVICES, REMOVE ALL ASSOCIATED ACCESSORIES, BRANCH CIRCUIT WIRING AND CONDUIT BACK TO SOURCE OF SUPPLY.
7. COORDINATE WITH THE BUILDING ENGINEER TO VERIFY THE DEMOLISHED LIGHT EQUIPMENT AND DEVICES WHICH ARE TO BE RETURNED TO BUILDING OWNER FOR STORAGE.
8. COORDINATE WITH EQUIPMENT SUPPLIER & INSTALLER FOR FULL ELECTRICAL REQUIREMENTS.
9. ALL ELECTRICAL & RELATED NEW WORK MUST BE DONE ON DE-ENERGISED SYSTEMS IN AN INTRINSICALLY SAFE & SECURE MANNER. CONTRACTOR TO DO THE DEMOLITION WORK & IT'S ASSOCIATED WORK PER CURRENT STATE, NATIONAL CODES/ORDINANCES.
10. ALL EXISTING DEVICES TO REMAIN ARE TO BE PROTECTED FROM DAMAGE THROUGHOUT THE CONSTRUCTION PROCESS.
11. THE CONTINUITY OF EXISTING CIRCUITS SERVING EXISTING DEVICES AND EQUIPMENT TO REMAIN SHALL BE MAINTAINED.
12. CONTRACTOR IS RESPONSIBLE TO ENSURE EXISTING SYSTEMS OUTSIDE THE PRESENT SCOPE OF WORK TO BE IN GOOD WORKING CONDITION. ANY INTERRUPTIONS, DAMAGE TO EXISTING BUILDING AND IT'S SYSTEMS SHALL BE MADE REPAIRED TO IT'S FULL WORKING CONDITION AT NO EXTRA COST TO CLIENT/OWNER AND THEIR REPRESENTATIVES.
13. COORDINATE WITH OTHER TRADES. SCHEDULE SHUT-DOWNS WITH BUILDING OWNER/ RESIDENT ENGINEER TO MINIMIZE ANY DISRUPTIONS TO NORMAL WORKING CONDITIONS OF THE EXISTING BUILDING AND IT'S OCCUPANTS. FIELD VERIFY.
14. ALL WIRING TO BE COPPER "THWN," UNLESS OTHERWISE NOTED.
15. ELECTRICAL CONTRACTOR TO SUPPLY OWNER WITH DRAWINGS OF THE AS-BUILT CONDITION OF THE WIRING SYSTEM UPON COMPLETION.
16. FOR ELECTRICAL PENETRATIONS OF FIRE-RATED FLOOR/CEILING, PROVIDE PROTECTION PER LATEST EDITION OF CBC CHAPTER 7.
17. ALL REUSED CIRCUIT NUMBERS INDICATED ON PLAN ARE BASED ON EXISTING DOCUMENTS AND MAY NOT MATCH THE AS-BUILT CONDITION OF THE EXISTING CIRCUITS SERVING THE AREA. CONTRACTOR TO VERIFY AND UPDATE THE CIRCUIT NUMBERS UTILIZED DURING CONSTRUCTION.
18. UNLESS OTHERWISE NOTED, IN THE SCOPE OF WORK AREA, ALL ELECTRICAL OUTLETS AND DEVICES SHOWN WITH A SUBSCRIPT "N" OR WITHOUT ANY SUBSCRIPT ARE NEW TO BE PROVIDED. DEVICES SHOWN WITH A SUBSCRIPT "E" INDICATE EXISTING EQUIPMENT TO REMAIN.

## SHEET NOTES:

- ① UNLESS OTHERWISE NOTED, ALL EXISTING ELECTRICAL DEVICES AND EQUIPMENTS IN THIS AREA ARE EXISTING TO REMAIN.
- ② UNLESS OTHERWISE NOTED, DEMOLISH ALL EXISTING DEVICES IN THIS AREA.
- ③ EXISTING EQUIPMENT AND ASSOCIATED OVERCURRENT DEVICES, CONTROLS AND COMPONENTS TO REMAIN.
- ④ JUNCTION BOX FOR DOOR HARDWARE. COORDINATE WITH VENDOR FOR CONNECTION REQUIREMENTS PRIOR TO INSTALLATION.

Revisions	By

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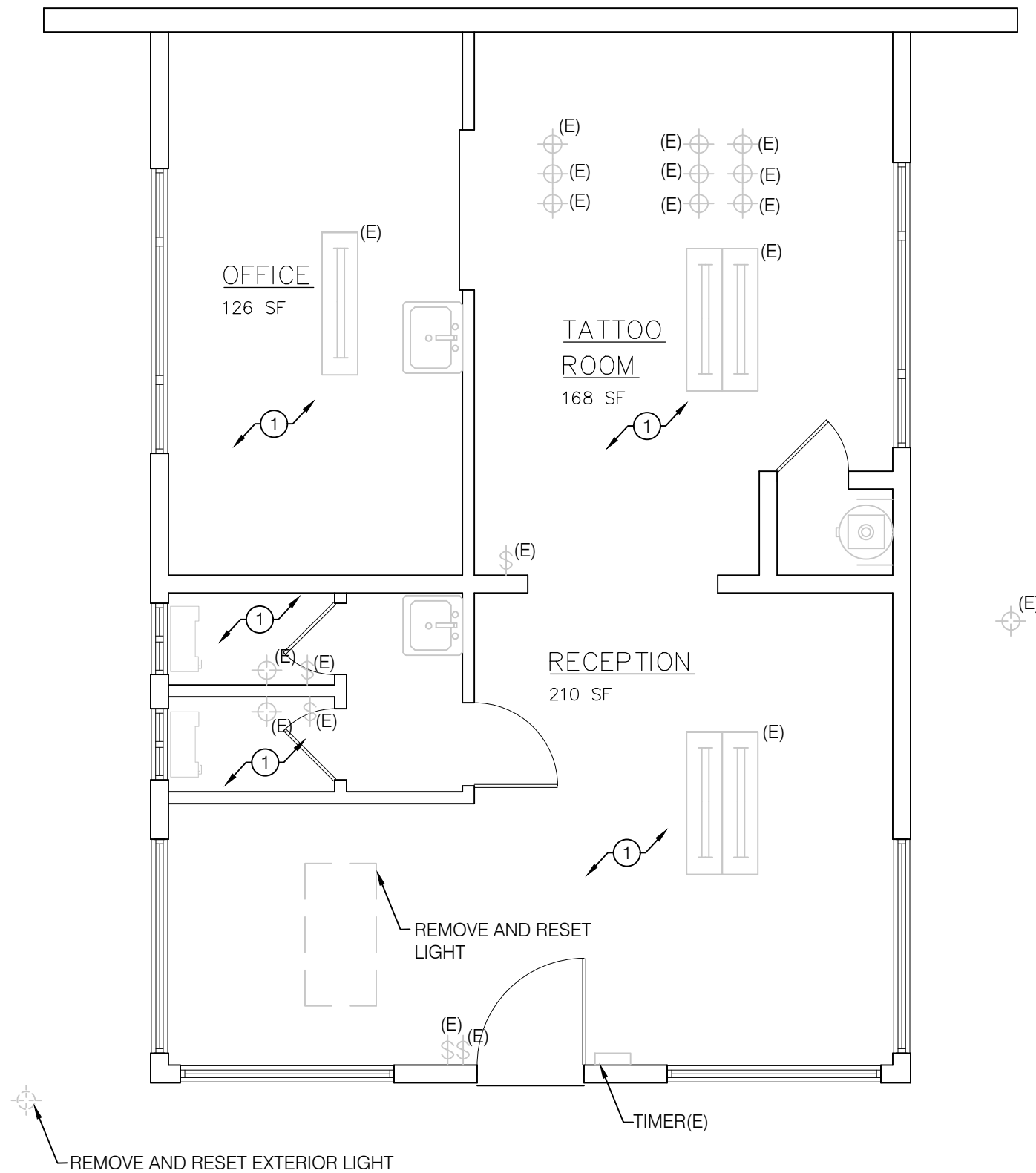
**REGISTERED PROFESSIONAL ENGINEER**  
M36488  
Exp. 09/2023  
STATE OF CALIFORNIA

A Fire Repair for:  
**San Jose Tattoo**  
1924 W. San Carlos St.  
San Jose, CA. 95128

**Electrical Power Plan**

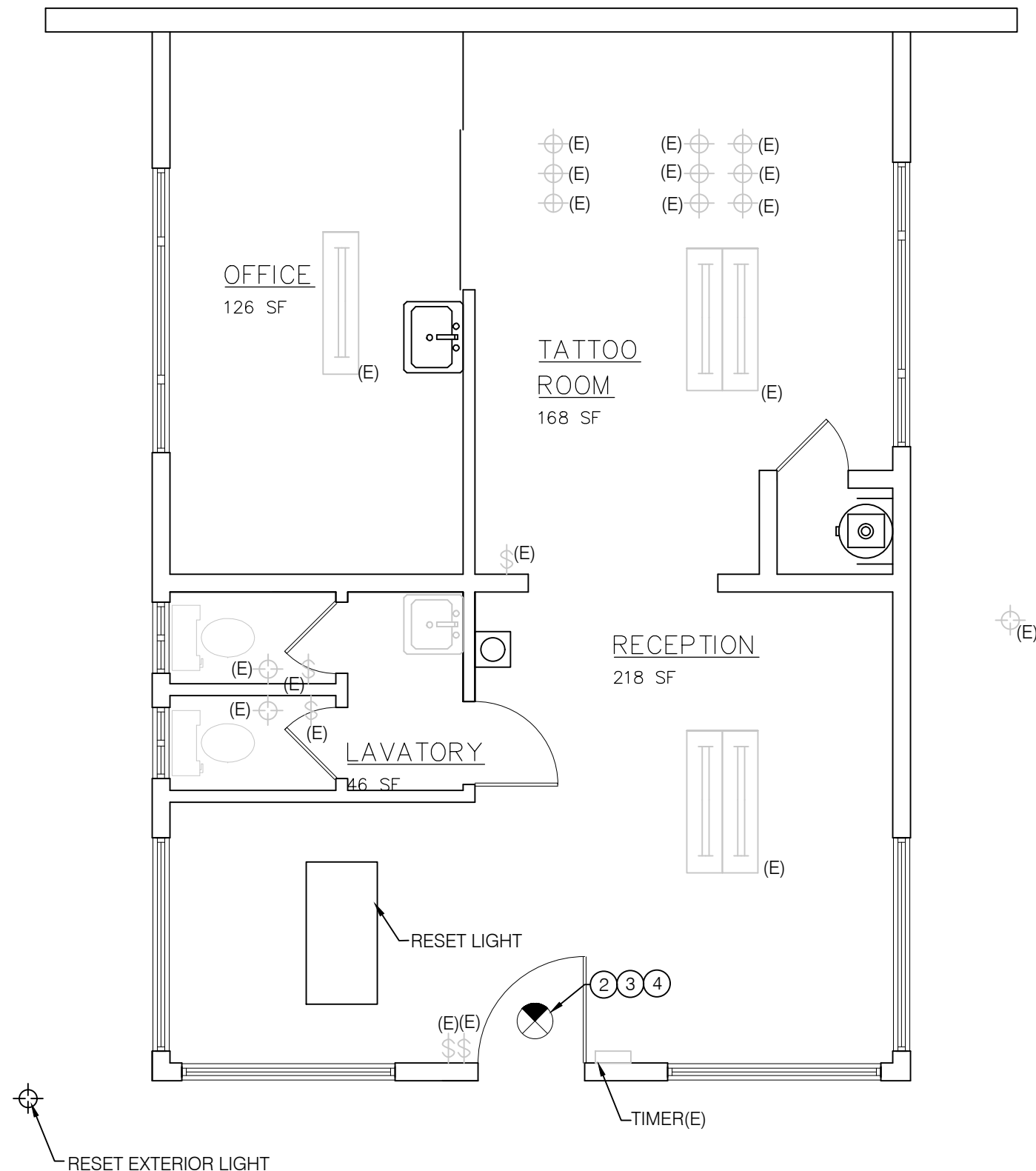
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**E1.2**  
Of Sheets





1  
E1.3  
1/4" = 1'-0"

**ELECTRICAL EXISTING PLAN**



1  
E1.3  
1/4" = 1'-0"

**ELECTRICAL NEW LIGHTING PLAN**

**GENERAL NOTES:**

1. REFER TO ARCHITECTURAL DRAWINGS FOR FULL SCOPE OF WORK. FIELD VERIFY SCOPE IN PRE-BID JOB-WALK.
2. CONTRACTOR TO FIELD VERIFY ACTUAL DEMOLITION WORK AND COORDINATE WITH BUILDING ENGINEER / CLIENT'S SITE REPRESENTATIVE PRIOR TO ANY WORK.
3. ALL WORK SHALL COMPLY WITH THE LATEST EDITION OF NATIONAL ELECTRICAL CODE AS AMENDED BY THE LATEST EDITION OF CALIFORNIA ELECTRICAL CODE.
4. REFER TO MECHANICAL AND PLUMBING DEMOLITION DRAWINGS FOR ADDITIONAL EQUIPMENT TO BE DEMOLISHED.
5. UNLESS OTHERWISE NOTED, DEMOLISH ALL EXISTING ELECTRICAL DEVICES AND EQUIPMENT SHOWN OR NOT SHOWN ON PLANS AT DEMOLISHED WALL, CEILING, AND FLOOR SECTIONS THROUGHOUT THE AREA OF WORK. ABANDON CONCEALED EXISTING CONDUITS INSTALLED IN CONCRETE WALLS OR SLABS.
6. FOR ALL DEMOLISHED EQUIPMENT AND DEVICES, REMOVE ALL ASSOCIATED ACCESSORIES, BRANCH CIRCUIT WIRING AND CONDUIT BACK TO SOURCE OF SUPPLY.
7. COORDINATE WITH THE BUILDING ENGINEER TO VERIFY THE DEMOLISHED LIGHT FIXTURES, EXIT SIGNS, EQUIPMENT AND DEVICES WHICH ARE TO BE RETURNED TO BUILDING OWNER FOR STORAGE.
8. ALL EXISTING DEVICES TO REMAIN ARE TO BE PROTECTED FROM DAMAGE THROUGHOUT THE CONSTRUCTION PROCESS.
9. THE CONTINUITY OF EXISTING CIRCUITS SERVING EXISTING DEVICES AND EQUIPMENT TO REMAIN SHALL BE MAINTAINED.
10. ALL LIGHTING WORK SHALL BE PER LATEST EDITION OF CALIFORNIA ENERGY CODE TITLE 24. PROVIDE, INSTALL & CONNECT POWER-PACKS, SWITCHING POWER MODULE & ACCESSORIES WITH REQUIRED J-BOXES, WIRES & RACEWAYS AS REQUIRED FOR A COMPLETE LIGHTING SYSTEM.
11. REFER TO ARCHITECTURAL DRAWINGS FOR RCP PLANS AND FINAL LOCATION & MOUNTING HEIGHTS OF LIGHTING FIXTURES, SWITCHES, OUTLETS.
12. CONTRACTOR IS RESPONSIBLE TO ENSURE EXISTING SYSTEMS OUTSIDE THE PRESENT SCOPE OF WORK TO BE IN GOOD WORKING CONDITION. ANY INTERRUPTIONS, DAMAGE TO EXISTING BUILDING AND IT'S SYSTEMS SHALL BE MADE REPAIRED TO IT'S FULL WORKING CONDITION AT NO EXTRA COST TO CLIENT/OWNER AND THEIR REPRESENTATIVES.
13. COORDINATE WITH OTHER TRADES. SCHEDULE SHUT-DOWNS WITH BUILDING OWNER/ RESIDENT ENGINEER TO MINIMIZE ANY DISRUPTIONS TO NORMAL WORKING CONDITIONS OF THE EXISTING BUILDING AND IT'S OCCUPANTS. FIELD VERIFY.
14. ALL WIRING TO BE COPPER "THWN," UNLESS OTHERWISE NOTED.
15. ELECTRICAL CONTRACTOR TO SUPPLY OWNER WITH DRAWINGS OF THE AS-BUILT CONDITION OF THE WIRING SYSTEM UPON COMPLETION.
16. VERIFY THE TYPE OF CEILING SYSTEM WITH GENERAL CONTRACTOR OR CEILING CONTRACTOR. PROVIDE FIXTURES WHICH ARE COMPATIBLE WITH THE CEILING SYSTEM AND INCLUDE ALL REQUIRED MOUNTING ACCESSORIES AND HARDWARE.
17. SUPPORT CEILING MOUNTED LIGHTING FIXTURES DIRECTLY FROM THE BUILDING STRUCTURE. DO NOT SUPPORT FIXTURES FROM PIPING, DUCTWORK OR ANY OTHER EQUIPMENT, OR SOLELY FROM THE SUSPENDED CEILING.
18. ALL LIGHTING FIXTURES SHALL BE NRTL LISTED.
19. CONTRACTOR SHALL PROVIDE ADDITIONAL EXIT SIGN(S) IF REQUIRED BY THE CITY FIRE MARSHALL INSPECTOR AT NO ADDITIONAL COST TO THE OWNER.
20. ALL EXIT SIGNS SHALL BE READILY VISIBLE FROM ANY DIRECTION OF EGRESS TRAVEL.
21. FOR ELECTRICAL PENETRATIONS OF FIRE-RATED FLOOR/CEILING, PROVIDE PROTECTION PER LATEST EDITION OF CBC CHAPTER 7.

**SHEET NOTES:**

- ① UNLESS OTHERWISE NOTED, ALL EXISTING LIGHT FIXTURE AND CONTROL IN THIS AREA ARE EXISTING TO REMAIN.
- ② PROVIDE HOT UNSWITCHED FOR EMERGENCY/EXIT LIGHT. PROVIDE WITH 90 MINUTE EMERGENCY BATTERY PACK. VERIFY EXACT LOCATION WITH ARCHITECT/OWNER.
- ③ VERIFY WITH OWNER EXACT LOCATION AND MOUNTING HEIGHT OF EMERGENCY EGRESS LIGHTING ABOVE DOOR AND PLATE GLASS.
- ④ THE BRANCH CIRCUIT FEEDING THE UNIT EMERGENCY LIGHTING FIXTURE SHALL BE THE SAME EXISTING BRANCH CIRCUIT AS THAT SERVING THE PREVIOUSLY NORMAL LIGHTING IN THE AREA AND CONNECTED AHEAD OF ANY LOCAL SWITCHES PER CEC 2019 ART.700.12(F)(2)(3).

Revisions	By

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Exp. 09/30/23

ALBERTO ALONSO

PE - CIVIL

A Fire Repair for:  
San Jose Tattoo  
1924 W. San Carlos St.  
San Jose, CA. 95128

**Electrical  
Lighting Plan**

Date	09/17/2020
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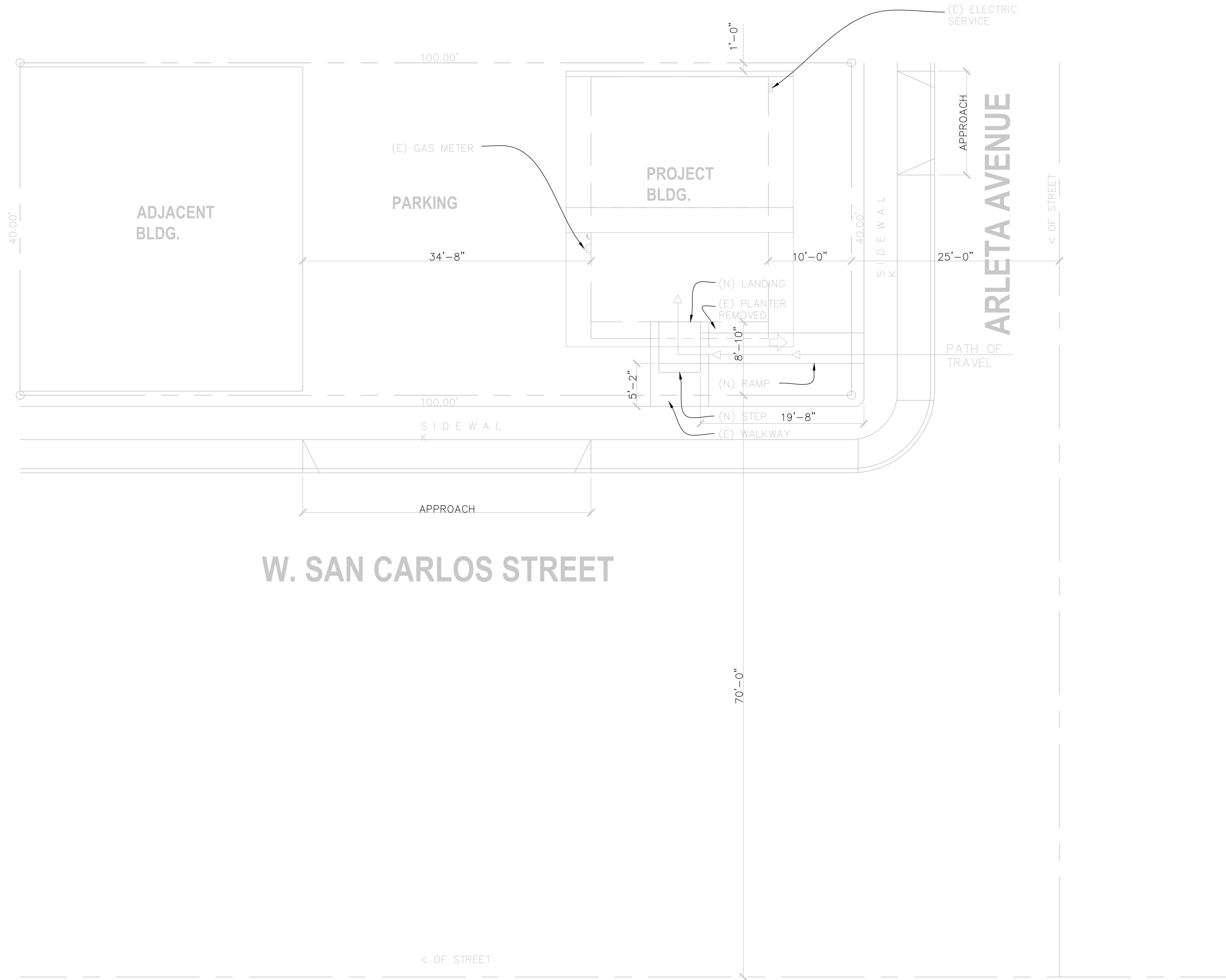
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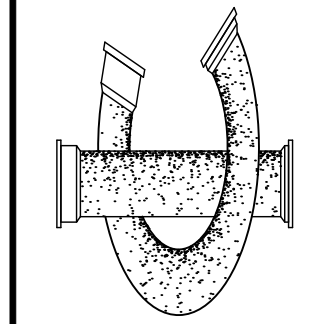


n  
SITE PLAN  
1/8"=1'-0  
APN 277-08-030

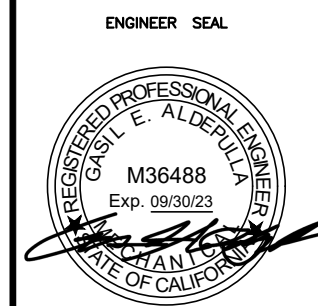


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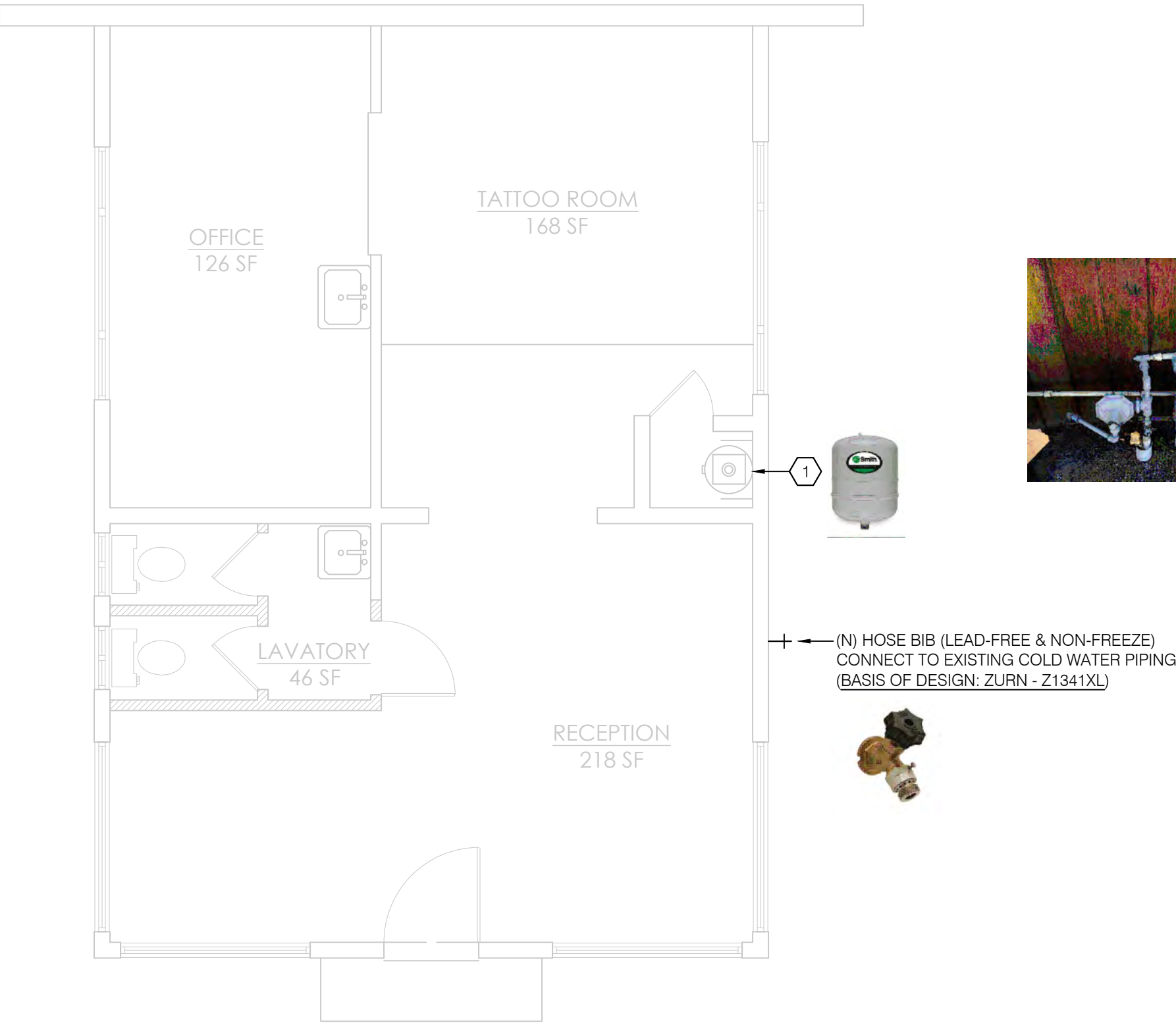
A Fire Repair for:  
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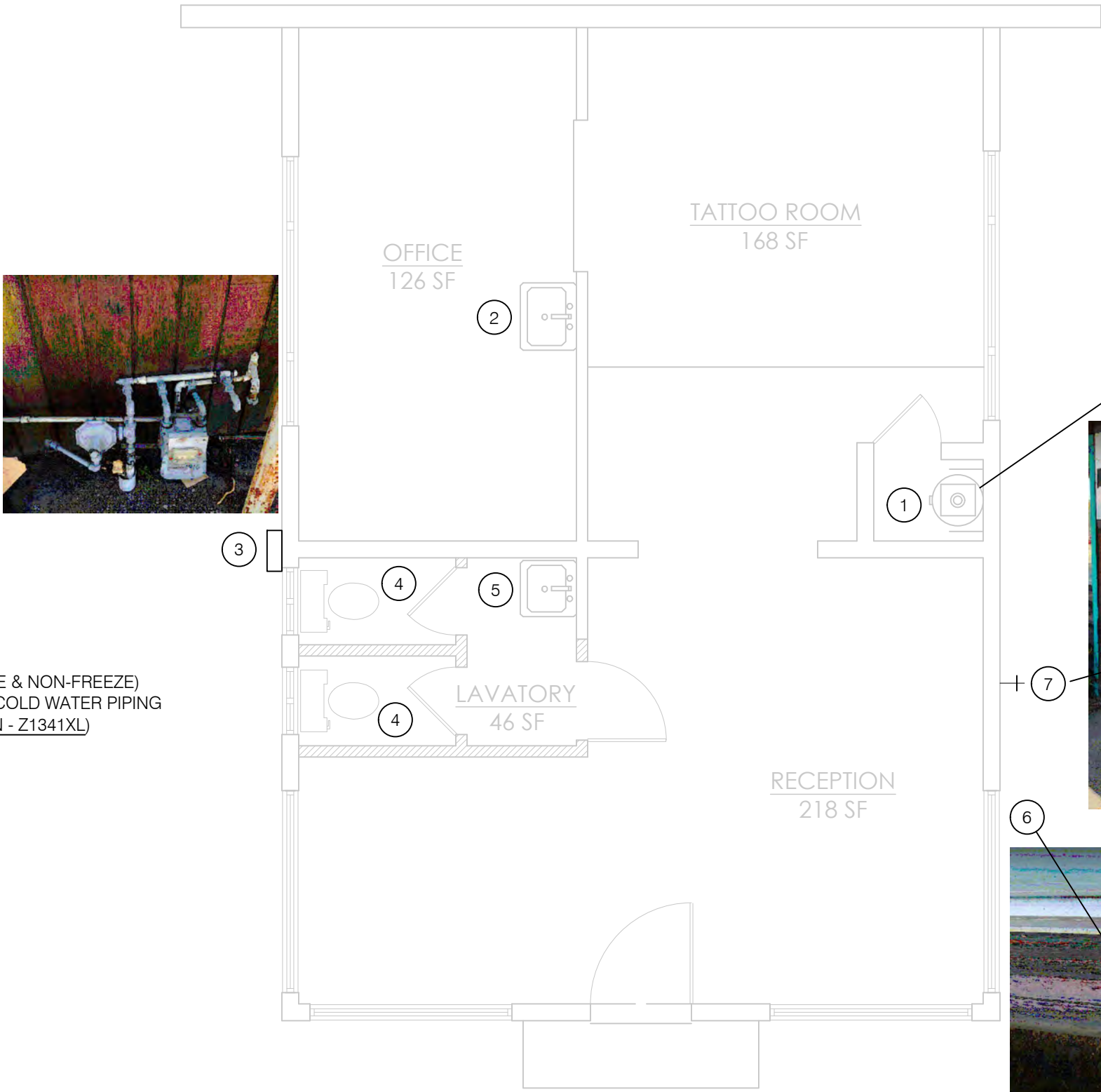




PROPOSED FLOOR PLAN - PLUMBING  
1/4" = 1'-0"

**NEW WORK KEY NOTES:**

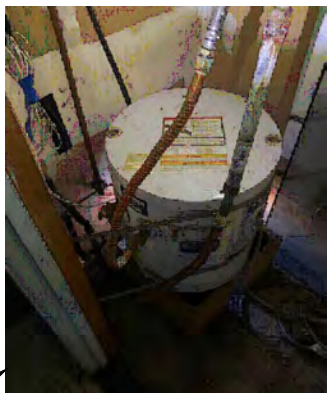
- 1 PROVIDE THERMAL EXPANSION TANK ON COLD WATER LINE SERVING TO EXISTING ELECTRIC DOMESTIC WATER HEATER. (BASIS OF DESIGN: A.O SMITH PMG-2)



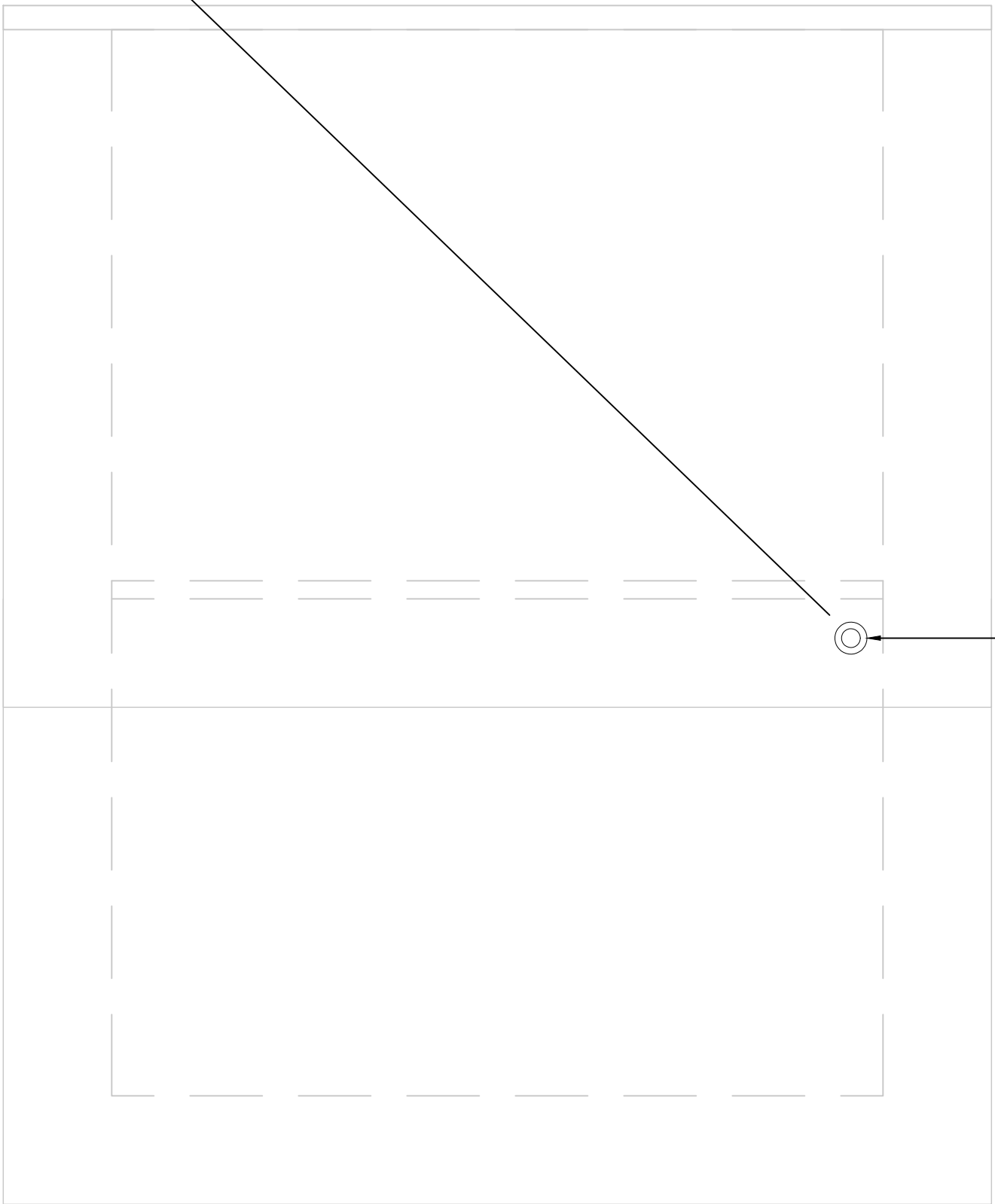
EXISTING FLOOR PLAN - PLUMBING  
1/4" = 1'-0"

**DEMOLITION KEY NOTES:**

- 1 EXISTING ELECTRIC DOMESTIC WATER HEATER (10 GALLONS STORAGE CAPACITY) TO REMAIN. ELECTRICAL SPECIFICATIONS: 1.65 kW/ 120 VOLTS/ 1Ø.  
2 EXISTING SINK & ALL ASSOCIATED ACCESSORIES & PIPING TO REMAIN.  
3 EXISTING GAS METER ASSEMBLY TO REMAIN.  
4 EXISTING WATER CLOSET & ALL ASSOCIATED ACCESSORIES & PIPING TO REMAIN.  
5 EXISTING LAVATORY & ALL ASSOCIATED ACCESSORIES & PIPING TO REMAIN.  
6 BUILDING WATER SERVICE LOCATION - CONTRACTOR TO FIELD VERIFY.  
7 REMOVE EXISTING EXTERIOR HOSE BIB, TRIM & CAP ASSOCIATED COLD WATER PIPING FOR RE-USE. SEE NEW PLANS FOR ADDITIONAL INFORMATION.



WATER METER VAULT  
LOCATED @ SITE - CONTRACTOR  
TO FIELD VERIFY FOR EXACT LOCATION



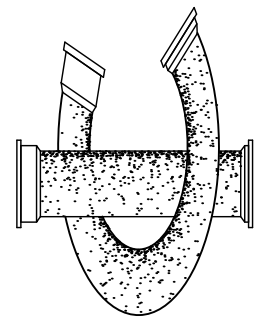
EXISTING ROOF PLAN - PLUMBING  
1/4" = 1'-0"

**GENERAL NOTES:**

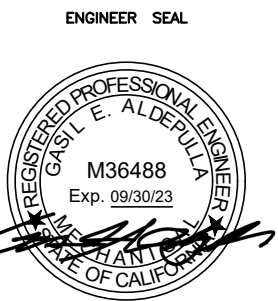
- A. CONTRACTOR SHALL FIELD VERIFY EXACT LOCATION & INVERT ELEVATION OF ALL PIPING AND UTILITIES PRIOR TO START OF WORK. IN THE EVENT OF ANY DISCREPANCIES OR POTENTIAL CONFLICTS, NOTIFY THE ARCHITECT AND ENGINEER IN WRITING PRIOR TO START OF WORK.  
B. ALL PIPING LOCATIONS ARE DIAGRAMMATIC. CONTRACTOR SHALL COORDINATE WITH ALL TRADES AND OWNER'S REPRESENTATIVE AND VERIFY EXACT ROUTING PRIOR TO START OF WORK.  
C. PIPE PENETRATIONS OF FIRE RATED WALL, FLOOR & CEILING SHALL BE PROTECTED AS PER CBC 714.3.  
D. SEE ARCHITECTURAL DRAWINGS FOR EXACT DIMENSIONS.  
E. PROVIDE INSULATION FOR TRAPS ON ALL ADA ACCESS FIXTURES.  
F. CONTRACT TO COORDINATE WITH OTHER TRADES/ DISCIPLINES DURING PIPING INSTALLATION IN CEILING SPACES.  
F. CONTRACTOR IS RESPONSIBLE TO PROTECT THE EXISTING ITEMS TO REMAIN AND RESTORE THE UTILITIES BACK TO ORIGINAL FUNCTIONING.

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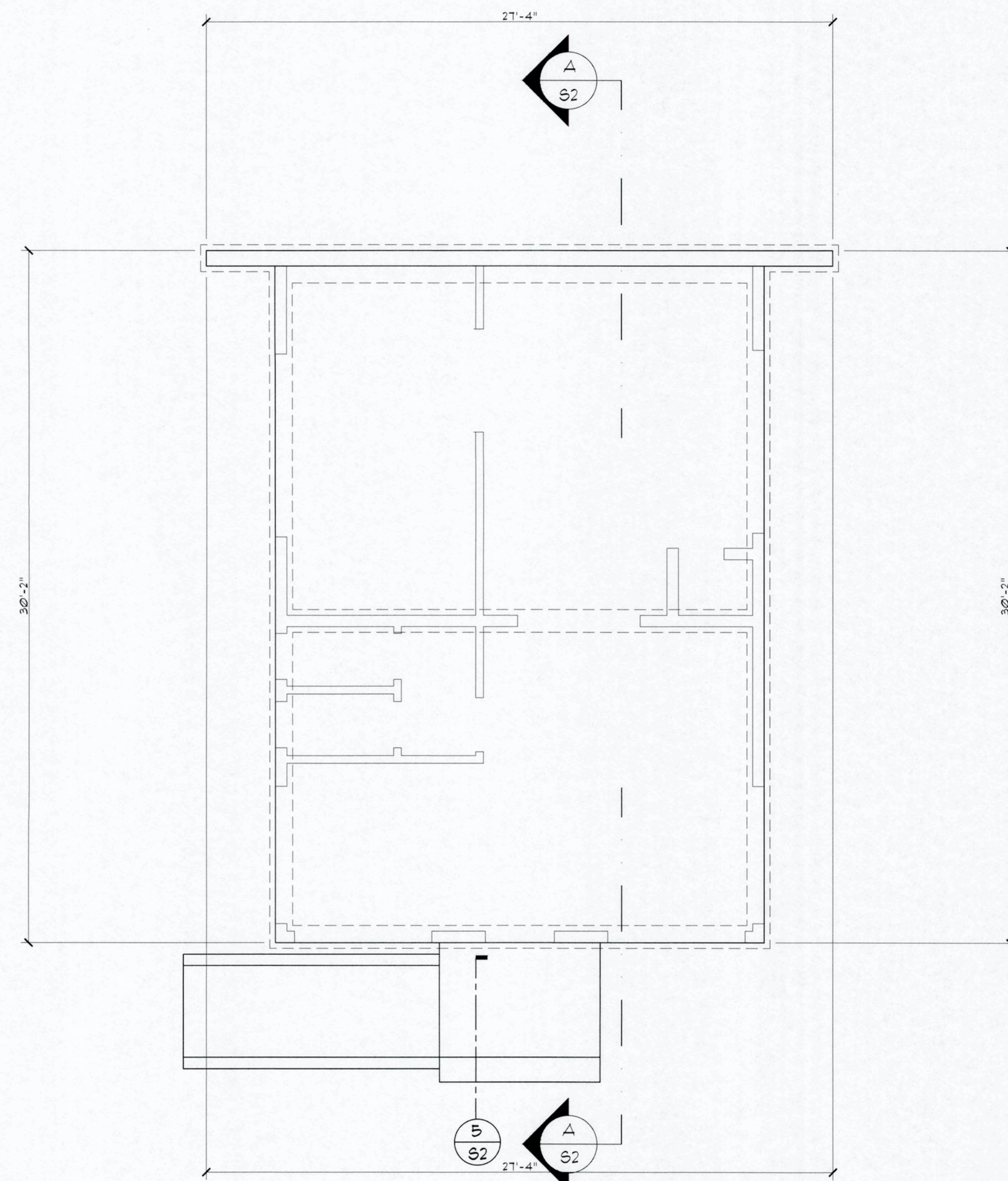
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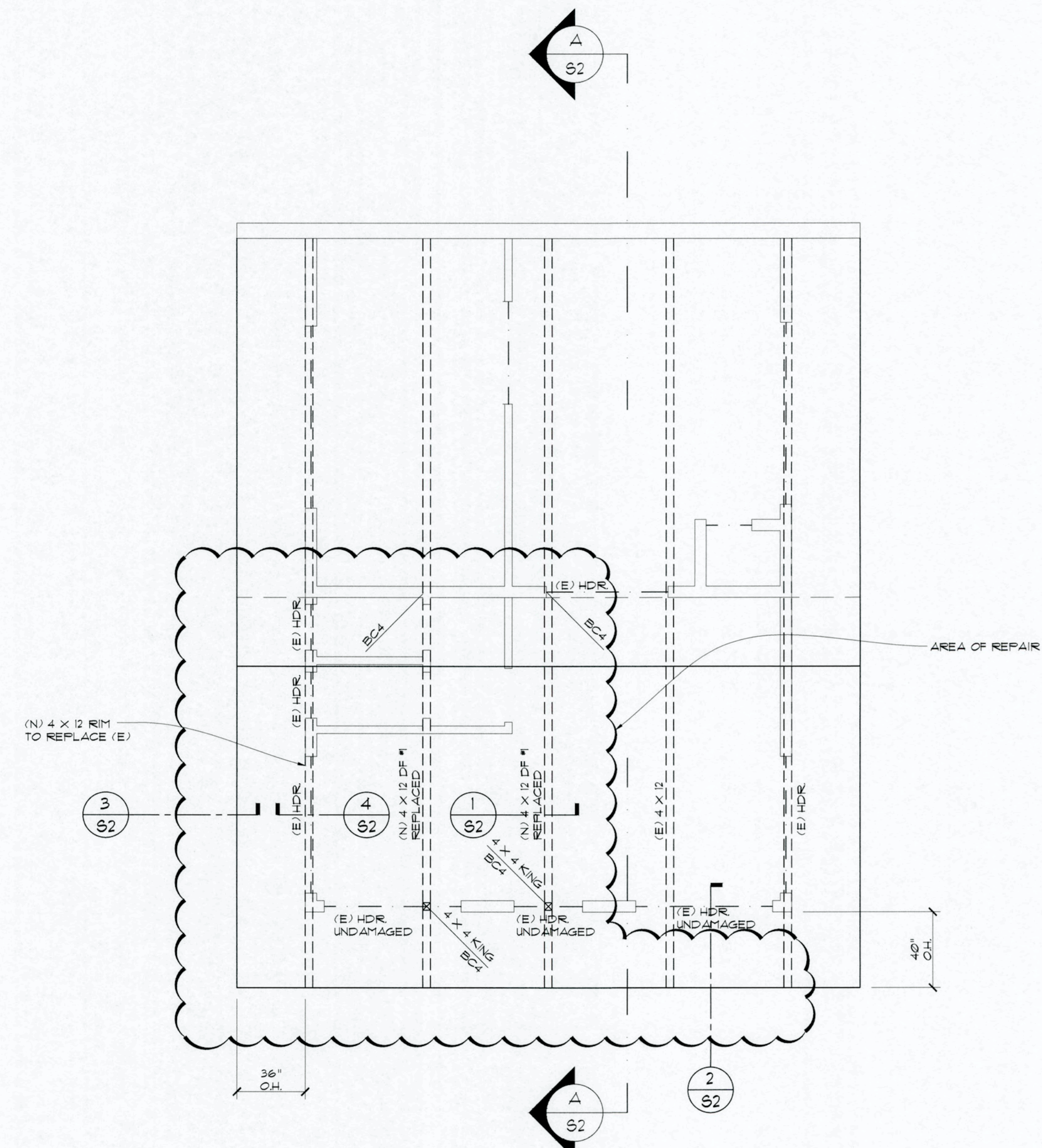
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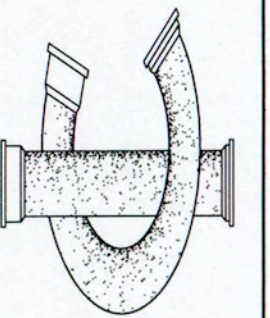




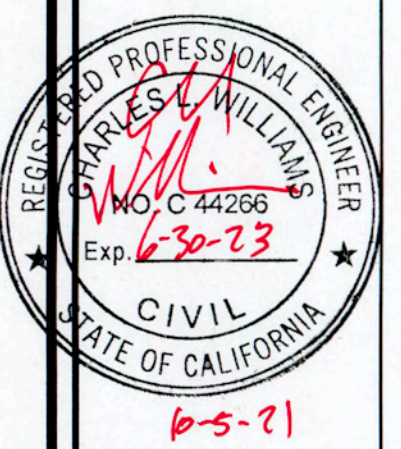
FOUNDATION PLAN  
1/4" = 1'-0"



ROOF FRAMING PLAN  
1/4" = 1'-0"



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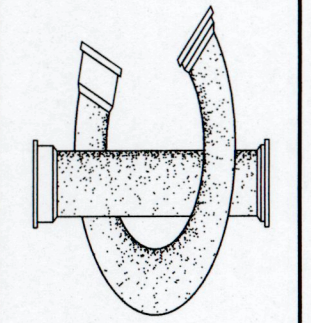
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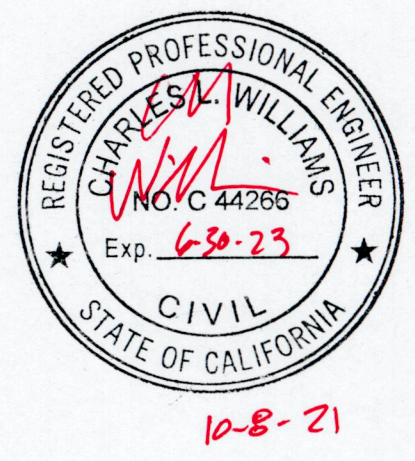


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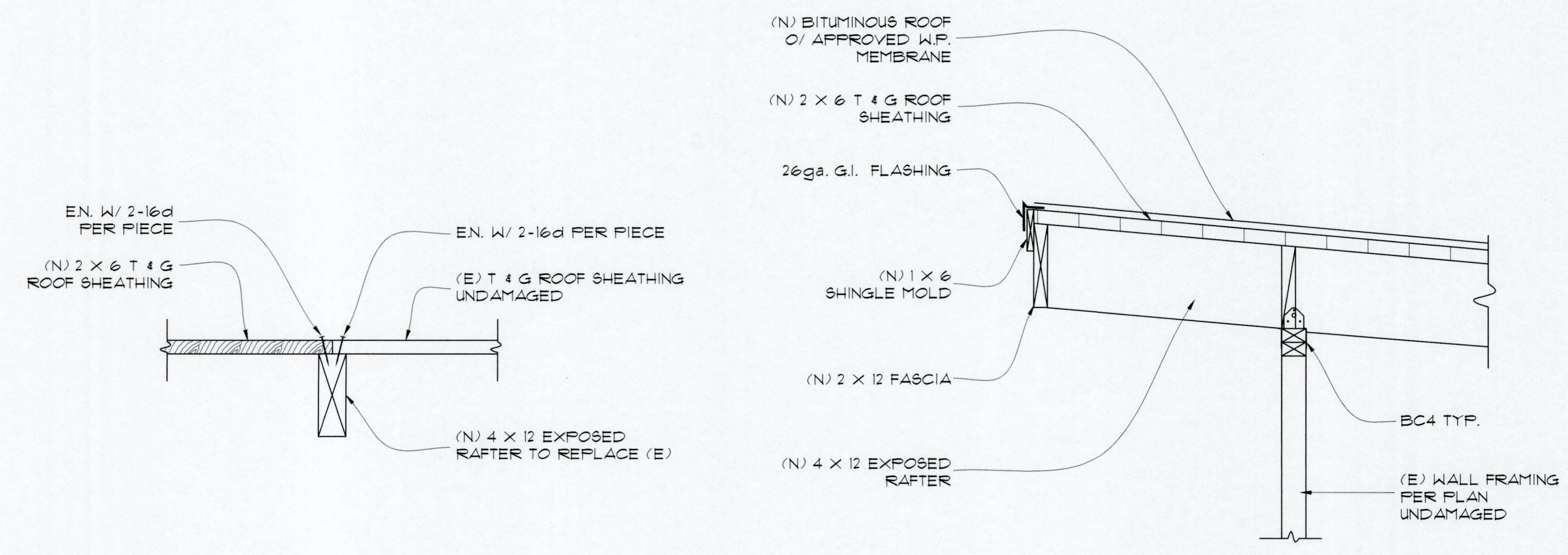


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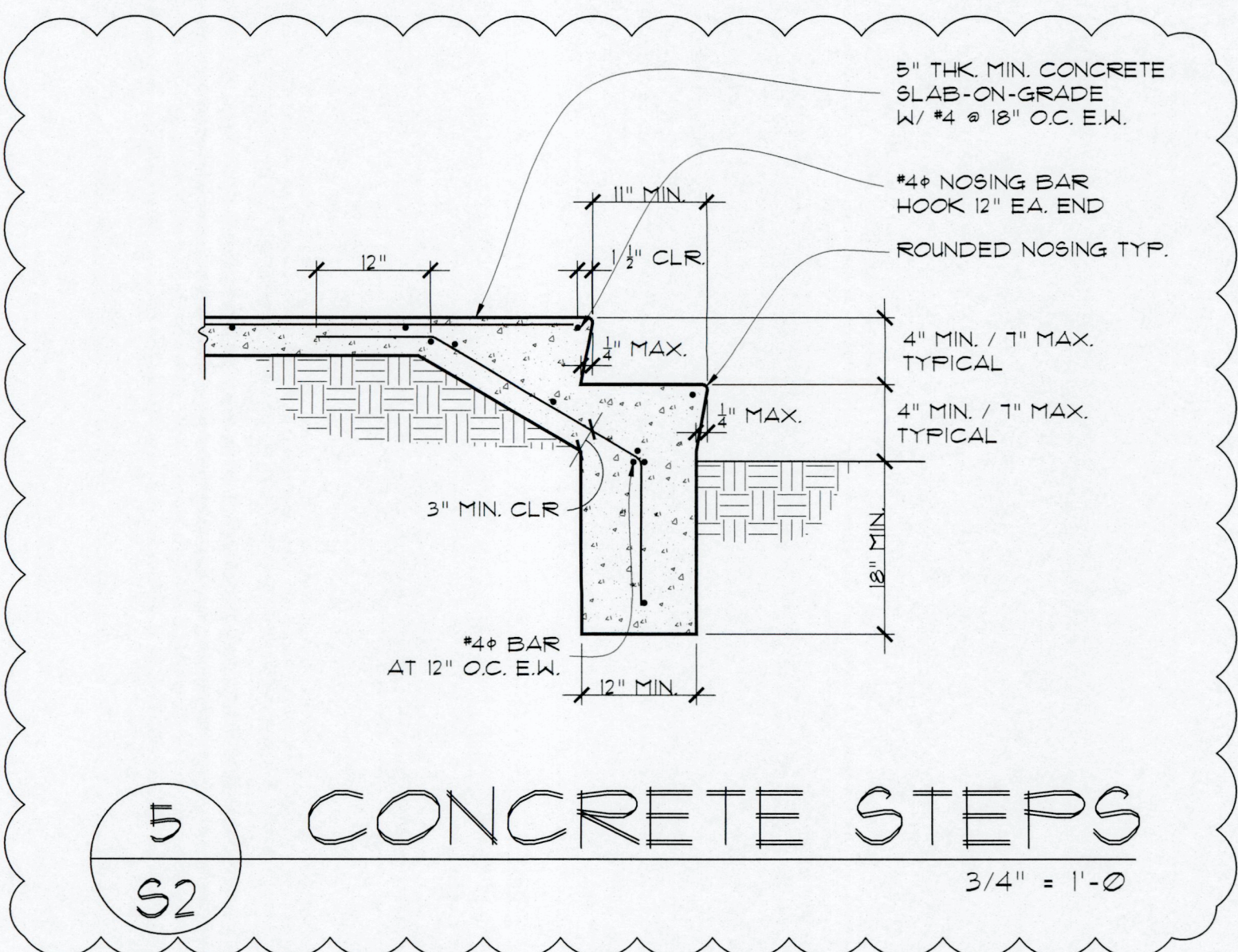


1 (N) TO (E) SHEATING  
S2 3/4" = 1'-0"

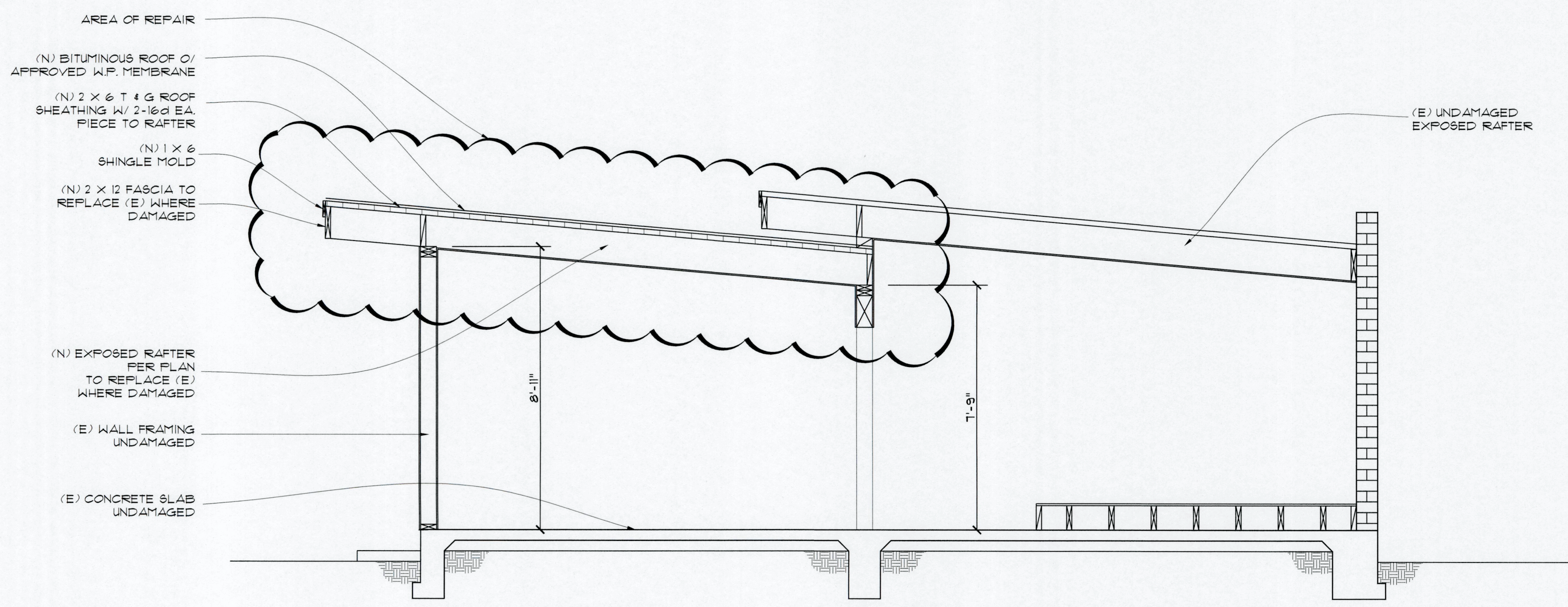
2 ROOF TO WALL  
S2 3/4" = 1'-0"

3 GABLE-END DETAIL  
S2 3/4" = 1'-0"

4 ROOF TO WALL  
S2 3/4" = 1'-0"



5 CONCRETE STEPS  
S2 3/4" = 1'-0"



SECTION 'A' - 'A'  
3/8" = 1'-0"