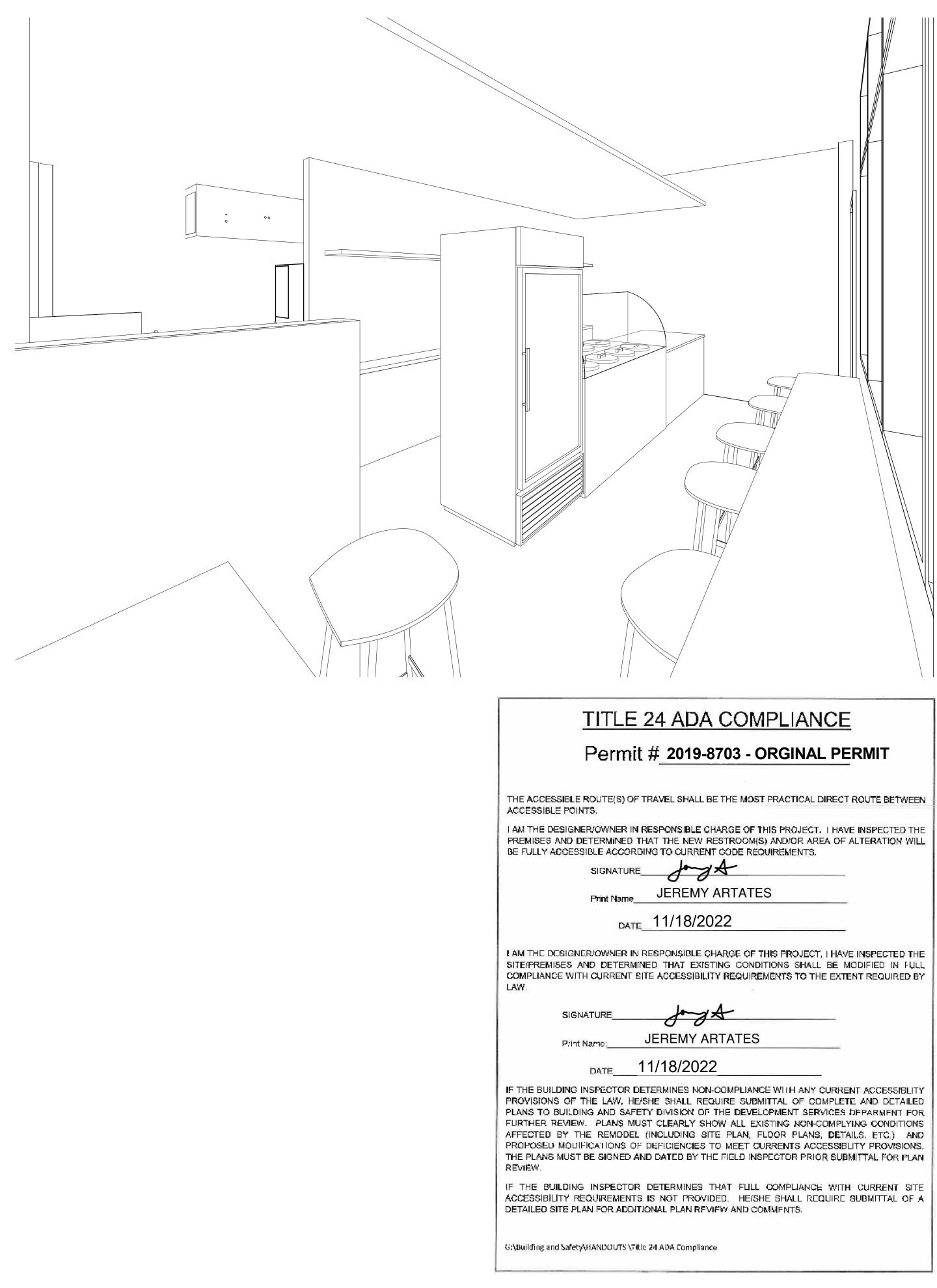
SABOR PIRI PIRI

TENANT IMPROVEMENT

804 B AVENUE, NATIONAL CITY CA 91950



GENERAL INFORMATION

ADDRESS: 804 B AVE. NATIONAL CITY CA 91950

APN: 556:472-26-00

LEGAL DESCRIPTION: BLK 2*LOTS 11 THRU 20 IN SUB OF LOT QSEC 154 MP166 IN\

TENANT NAME: SABOR PIRI PIRI

PROPERTY TOTAL SQ FT: 453 SQFT

USE TYPE: FOOD/RETAIL - COMMERCIAL

FIRE ALARM: YES

WATER AND SEWER DISTRICT: SWEETWATER

BUILDING CODE: 2019 CALIFORNIA BUILDING CODE CBC

TYPE OF FACILITY: SINGLE SERVICE UTENSILS

NUMBER OF EMPLOYEES: 3

SCOPE OF WORK:

THIS PROJECT WILL PROPOSE A 453SF TENANT IMPROVEMENT KITCHEN AND SERVING AREA WITH NEW MECHANICAL / ELECTRICAL / PLUMBING EQUIPMENT AND NEW MENU INSIDE AN EXISTING BUILDING SHELL FOR A HEALTH DEPARMENT PERMIT AND BUILDING PERMIT. NO STRUCTURAL WORK WILL BE PROPOSED.

APPLICABLE CODES:

BUILDING CODE:	2019 CALIFORNIA BUILDING CODE (CBC)
PLUMBING CODE:	2019 CALIFORNIA PLUMBING CODE (CPC)
MECHANICAL CODE:	2019 CALIFORNIA MECHANICAL CODE (CMC)
ELECTRICAL CODE:	2019 CALIFORNIA ELECTRICAL CODE (CEC)
ENERGY CODE:	2019 CALIFORNIA ENERGY CODE
FIRE/LIFE SAFETY:	2019 CALIFORNIA FIRE CODE (CFC)
ACCESSIBILITY CODE:	2019 CALIFORNIA BUILDING CODE (TITLE 24, PART 2)

PROJECT TEAM

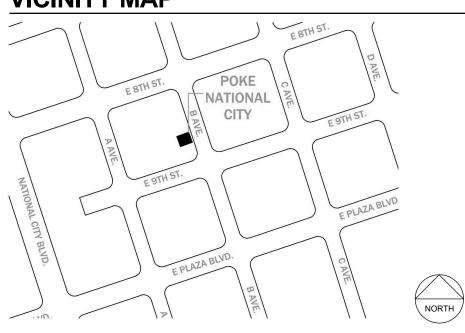
TENANT/OWNER:

CANDIDO GADAGA SABOR PIRI 804 B AVE. NATIONAL CITY CA. 619.200.8246 GADAGACANDIDO@GMAIL.COM

DESIGNER: BASECAMP CONSTRUCTION CO. JEREMY ARTATES 75 3RD AVE UNIT 21 CHULA VISTA CA 91910 949.702.2859 JEREMYARTATES@GMAIL.COM

MECHANICAL / PLUMBING / ELECTRICAL CARLOS RIVAS RIVERSIDE ENGINEERING INC. 11801 PIERCE STREET, SUITE #200 **RIVERSIDE CA 92507** 951.512.3280 INFO@RIV-ENG.COM

VICINITY MAP



PROJECT INFORMATION

STORIES: 1 HEIGHT: 10'-6"

SHEET INDEX

GENERA ARCHIT ELECTR MECHAN

PLUMBI

SUBMITTAL DOCUMENTS FOR DEFERRED SUBMITTAL ITEMS SHALL BE SUBMITTED TO THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE, WHO SHALL REVIEW THEM AND FORWARD THEM TO THE BULIDING OFFICIAL WITH A NOTATION INDICATED THAT THE DEFERRED SUBMITTAL DOCUMENTS HAVE BEEN REVIEWED AND THAT THEY HAVE BEEN FOUND TO BE IN GENERAL CONFORMANCE WITH THE DESIGN OF THE BUILDING. THE DEFERRED SUBMITTAL ITEMS SHALL NOT BE INSTALLED UNTIL THEIR DESIGN AND SUBMITTAL DOCUMENTS HAVE BEEN APPROVED BY THE BUILDING OFFICIAL.

- FIRE ALARM - FIRE SPRINKLER - EXTERIOR FIRE HORN STROBE - HOOD FIRE SUPPRESSION SYSTEM

OCCUPANCY CLASSIFICATION: B (RESTAURANT) WITH OL UNDER 50

DESCRIPTION OF USE: RESTAURANT

- TYPE OF CONSTRUCTION: 1A NON-COMBUSTABLE
- DESCRIPTION OF USE: RESTAURANT UNDER 50 OCC.
- SPRINKLERS: YES, EXISTING
- FLOOR AREA: THIS T.I. = 453 SF
- OCCUPANT LOAD: 33
- ALLOWABLE AREA: ALLOWABLE = UNLIMITED
- ALLOWABLE HEIGHT: 1 (ACTUAL) / UNLIMITED (ALLOWED)

RAL
G0.1 TITLE SHEET
G0.2 GENERAL NOTES
G0.3 NOTES
G0.4 NOTES
ITECTURAL
A0.2 ACCESSIBILITY DETAILS
A0.3 ACCESSIBILITY DETAILS
A0.4 EXTERIOR WALL ASSEMBLIES
A0.5 INTERIOR WALL ASSEMBLIES
A0.6 ASSEMBLY DETAILS
A1.0 SITE PLAN
A1.1 FLOOR PLANS
A1.2 CEILING PLANS
A1.3 EQUIPMENT SCHEDULE
A1.4 INTERIOR ELEVATIONS
FRICAL
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E0.2 LEGEND AND NOTES
E2.1 ELECTRICAL POWER PLAN
E2.1 ELECTRICAL POWER PLAN E2.2 ELECRICAL LIGHTING PLAN
E4.1 ELECTRICAL SINGLE LINE DIAGRAM AND LOAD CALCULATIONS
E4.1 ELECTRICAL SINGLE LINE DIAGRAM AND LOAD CALCULATIONS E4.2 COMPLIANCE CERTIFICATION
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M0.1 MECHANICAL SPECIFICATIONS, LEGEND
M0.2 MECHANICAL SCHEDULES
M0.3 MECHANICAL T24 FORMS
M0.4 MECHANICAL T24 FORMS
M2.1 MECHANICAL FLR AND ROOF PLAN
M3.1 MECHANICAL DETAILS
M3.2 MECHANICAL DETAILS
M4.1 MECHANICAL HOOD DETAILS
M4.2 MECHANICAL HOOD DETAILS
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M4.4 MECHANICAL HOOD DETAILS
M4.5 MECHANICAL HOOD DETAILS
M4.6 MECHANICAL HOOD DETAILS
M4.7 MECHANICAL HOOD DETAILS
M4.8 MECHANICAL HOOD DETAILS
BING
P0.1 PLUMBING GENERAL NOTES, 2022 CAL GREEN
P0.2 PLUMBING SCHEDULES
P0.3 PLUMBING T-24 FORMS
P0.4 PLUMBING T-24 FORMS
P2.1 PLUMBING LAYOUT
P3.1 PLUMBING SCHEMATIC DIAGRAM
P4.1 PLUMBING DETAILS
P4.2 PLUMBING DETAILS

DEFERRED SUBMITTALS:



DRAWN BY: PROJECT #	JA XX	-XXX	
NUMBER 1 3 4	NC NC	RIPTION REV 1 REV 2 REV 3	DATE 02/17/2023 07/05/2023 07/24/2023
	SABOR PIRI PIRI TENANT IMPROVEMENT	800 B AVENUE SUITE 804	NATIONAL CITY CA 91950
DRAWINGS	S-PRE	PARED	BX:
	CENSED BRA BLAL	ARCHIAN NDON (EMAN) -34468 31/23 EN. CALIFORN	
TITLE: TITLE: TIT	ΓLE	SHE	ET

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ABBREVIATIONS

А	
&	AND
@	AT
AB	ANCHOR BOLT
AC	AIR CONDITIONING
ACC	ACCESSIBLE
	ACOUSTIC CEILING TILE
AD	AREA DRAIN
-	ADJACENT
	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AGGR	AGGREGATE
ALT	ALTERNATE
ALUM	ALUMINUM
ANOD	ANODIZED
APC	ACOUSTICAL PANEL
	CEILING
APPROX	APPROXIMATE
ARCH	ARCHITECTURAL
ASPH	ASPHALT
ATTN	ATTENTION
AUTO	AUTOMATIC
AV	AUDIOVISUAL
В	
BD	BOARD
BIT	BITUMINOUS
BLDG	BUILDING
BLK	BLOCK
BLKG	BLOCKING
BM	BEAM
BO	BOTTOM OF
BOT	BOTTOM
BRG	BEARING
BRK	BRICK
BRKT	BRACKET
BSMNT	BASEMENT
С	
С	CHANNEL
CAB	CABINET
CAT	CATEGORY
CB	CATCH BASIN
СВ	CEMENT BOARD
CBU	CEMENTITIOUS BACKER
	UNIT
CC	CENTER TO CENTER
CCTV	CLOSED CIRCUIT
	TELEVISION
CEM	CEMENT
CER	CERAMIC
CG	CORNER GUARD
CH	CHILLER
CI	CAST IRON
CIP	CAST-IN-PLACE
CJ	CONTROL JOINT
CL	CENTERLINE
CLG	CEILING
CLR	CLEAR
CNTR	COUNTER
<u>entity</u>	

CONC COND CONN CONST CONT CONTR COORD CORR CPT CT CTR CTSK CW D D D D D D BL DEG DEMO DEMO DEMO DEPT DF DIA DIFF DIM	DEGREE DEMOLISH OR DEMOLITION DEMOLITION DEPARTMENT DRINKING FOUNTAIN DIAMETER DIFFUSER DIMENSION
DISP	DIMENSIONS DISPENSER
	DIVISION DAMP PROOFING DOWN DOOR OPENING
DR DRN DS DS	DOOR DRAIN DOWNSPOUT DOWN SPOUT
DTL DW DWG DWR	DETAIL DISHWASHER DRAWING DRAWER
E CMU	CONCRETE MASONRY UNIT
E EA EB EJ	EAST EACH EXPANSION BOLT EXPANSION JOINT
EL ELEC ELEV EMER ENCL ENG EP	ELEVATION ELECTRICAL ELEVATOR EMERGENCY ENCLOSURE ENGINEER ELECTRICAL PANEL
EPDM EQ	ETHYLENE PROPYLENE DIENE M-CLASS EQUAL EQUIPMENT EXHAUST

EXIST	EXISTING	HB	HOSE BIB
EXP	EXPANSION	HB	HOSE BIBB
EXT	EXTERIOR	HC	HANDICAPPED
F		HDWD	HARDWOOD
FA	FIRE ALARM	HDWR	HARDWARE
FB	FACE BRICK	HGT	HEIGHT
FD	FLOOR DRAIN	HM	HOLLOW METAL
FD	FLOOR DRAIN OR FIRE	HNDRL	HANDRAIL
		HO	HOLD OPEN
FDC	FIRE DEPARTMENT CONNECTION	HORIZ	HORIZONTAL
FE	FIRE EXTINGUISHER	HR	HOUR
FEC	FIRE EXTINGUISHER	HRC	HOSE REEL CABINET
1 20	CABINET	HTG	HEATING
FF&E	FURNITURE, FIXTURES AND	HVAC	HEATING VENTILATION AND AIR CONDITIONING
FFB	EQUIPMENT FLUSH FLOOR BOX	HW	HOT WATER
FFFL	FINISH FLOOR ELEVATION	I	
FH	FLAT HEAD	ID	INSIDE DIAMETER
FHC	FIRE HOSE CABINET	IN	INCH/INCHES
FIN	FINISH	INCAND	INCANDESCENT
FIXT	FIXTURE	INCL	INCLUDED/INCLUDING
FLASH	FLASHING	INFO	INFORMATION
FLR	FLOOR	INSUL	INSULATION
FLUOR	FLUORESCENT	INSUL	INSULATED OR INSULATION
FND	FOUNDATION	INT	INTERIOR
FO	FACE OF	INTERM	
FP	FIRE PROTECTION	INV	INVERT
FPG	FIREPROOFING	J	
FR	FIRE RESISTANT	JAN	
FRC	FIBER REINFORCED	JC	JANITOR'S CLOSET
	CONCRETE	JST	JOIST
FRT	FIRE RETARDANT TREATED	JT	JOINT
FT	FEET/FOOT	K	KITOUEN
FTG	FOOTING	KIT	KITCHEN
FURN	FURNITURE	KO	KNOCK OUT
FURR	FURRING	L LAM	LAMINATE
FWC	FABRIC WALL COVERING	LAW	LAVATORY
FWP	FABRIC WRAPPED PANEL	LAV LB	POUNDS
G		LLH	LONG LEG HORIZONTAL
GA	GAUGE	LLII	LONG LEG VERTICAL
GALV	GALVANIZED	LT	LIGHT
GB	GRAB BAR	M	LIGHT
GC	GENERAL CONTRACT(OR)	MAS	MASONRY
GEN	GENERAL	MAX	MAXIMUM
GFRC	GLASS FIBER REINFORCED CONCRETE	MECH	MECHANICAL
GL	GLASS	MED	MEDIUM
GLAZ	GLASS	MEMBR	MEMBRANE
GLAZ	GRANULAR	MFR	MANUFACTURER
GRD	GROUND	MH	MAN HOLE
GRFG	GLASS FIBER REINFORCED	MIN	MINIMUM
	GYPSUM	MISC	MISCELLANEOUS
GSM	GALVANIZED SHEET METAL	MO	MASONRY OPENING
GV	GAS VALVE	MR	MOISTURE RESISTANT
GWB	GYPSUM WALL BOARD	MTD	MOUNTED
GYP	GYPSUM	MTG	MOUNTING
Н		MTL	METAL
Н	HIGH/HEIGHT	MULL	MULLION

RM	INSULATED OR INSULATION INTERIOR INTERMEDIATE INVERT
	JANITOR JANITOR'S CLOSET JOIST JOINT
	KITCHEN KNOCK OUT
	LAMINATE LAVATORY POUNDS LONG LEG HORIZONTAL LONG LEG VERTICAL LIGHT
4	MASONRY MAXIMUM MECHANICAL
ЗR	MEDIUM MEMBRANE MANUFACTURER MAN HOLE MINIMUM
	MISCELLANEOUS MASONRY OPENING MOISTURE RESISTANT MOUNTED MOUNTING

•	
Т	TREAD
T&B	TOP AND BOTTOM
T&G	TONGUE AND GROOVE
ТВ	TOWEL BAR
TEL	TELEPHONE/TELECOM
TELE	TELEPHONE
TEMP	TEMPERATURE
TEMP	TEMPORARY
THK	THICKNESS
THRU	THROUGH
TKBD	TACK BOARD
TLT	TOILET
TMPD	TEMPERED
то	TOP OF
TOB	TOP OF BEAM
TOC	TOP OF CONCRETE
TOS	TOP OF STEEL

N	NORTH
NA	NOT APPLICABLE
NC	NOISE CRITERIA
NIC	NOT IN CONTRACT
NO	NUMBER
NOM	NOMINAL
NON	NON COMBUSTIBLE
COMB	
NTS	NOT TO SCALE
0	
OA	OUTSIDE AIR
-	
OC	ON CENTER
OD	OUTSIDE DIAMETER
OD	OVERFLOW DRAIN
OFCI	OWNER FURNISHED,
	CONTRACTOR INSTALLED
OFF	OFFICE
OFOI	OWNER FURNISHED.
0101	OWNER INSTALLED
ОН	OVERHEAD
-	-
OPNG	OPENING
OPP	OPPOSITE
ORD	OVERFLOW ROOF DRAIN
Р	
Р	PAINT
PAV	PAVING
	PARTICLE BOARD
PC	PRECAST
PDF	POWER DRIVEN FASTENER
PERF	PERFORATED
PERIM	PERIMETER
PERP	PERPENDICULAR
PI.	PLATE
PLAM	PLASTIC LAMINATE
PLAS	PLASTER
-	PLUMBING
PLF	POUNDS PER LINEAR FOOT
PLYWD	PLYWOOD
PNL	PANEL
PNT	PAINT OR PAINTED
POL	POLISHED
PR	PAIR
	PREFABRICATED
	PROJECT
PSF	POUNDS PER SQUARE
	FOOT
PT	POINT
PT	PRESSURE TREATED
PTD	PAINTED
PTN	PARTITION
PVC	POLYVINYL CHLORIDE
Q	
QT	QUARRY TILE
QTY	QUANTITY
R	
R	RADIUS/RISER
RA	RETURN AIR

RAD RADIUS

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NORTH

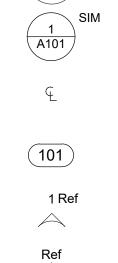
KB	RESILIENT BASE
RBR	RUBBER
RCP	REFLECTED CEILING PLAN
RD	ROOF DRAIN
REC	RECESSED
RECPT	RECEPTACLE
REF	REFERENCE
REFR	REFRIGERATOR
REG	REGISTER
REINF	REINFORCED REINFORCING
	REINFORCED
REL	RELOCATE
REM	REMOVABLE
	-
	RECOMMENDED
REQ	REQUIRE/REQUIRED
REQD	REQUIRED
	RESILIENT
	REVISION/REVISED
RM	ROOM
RO	ROUGH OPENING
RTD	RATED
RTG	RATING
RWL	RAIN WATER LEADER
S	
S	SOUTH
SA	SUPPLY AIR
SAF	SELF ADHERED FLASHING
SC	SOLID CORE
	SCHEDULE
SD	STORM DRAIN
SECT	SECTION
SECT	SQUARE FEET/FOOT
SH	SPRINKLER HEAD
SHR	SHOWER
SHT	SHEET
SIM	SIMILAR
SM	SHEET METAL
SM	SURFACE MOUNTED
SP	STANDPIPE
SPEC	SPECIFICATION
SPEC	SPECIFIED OR
	SPECIFICATION
SPK	SPRINKLER OR SPEAKER
SPKR	SPEAKER
SQ	SQUARE
SS	STAINLESS STEEL
SSK	SERVICE SINK
STA	STATION
STC	SOUND TRANSMISSION
	COEFFICIENT
STL	STEEL
STOR	STORAGE
STRG	STRINGER
-	STRUCTURAL
	STRUCTURE OR
211001	STRUCTURAL
SUBCAT	SUBCATEGORY
SUSP	SUSPENDED
SYM	SYMMETRICAL
5	

RESILIENT BASE

RB

IUL	I HICKNESS
THRU	THROUGH
TKBD	TACK BOARD
TLT	TOILET
TMPD	TEMPERED
TO	TOP OF
TOB	TOP OF BEAM
TOC	TOP OF CONCRETE
TOS	TOP OF STEEL
TS	TUBE STEEL
ΤV	TELEVISION
TYP	TYPICAL
U	
UNFIN	UNFINISHED
-	-
UNO	UNLESS NOTED OTHERWISE
	-
UON	UNLESS OTHERWISE NOTED
	-
URNL	URINAL
V	
VAC	VENTILATION AND AIR
	CONDITIONING
VAR	VARIES
VCT	VINYL COMPOSITION TILE
VERT	VERTICAL
VEST	VESTIBULE
VIF	VERIFY IN FIELD
VP	VISION PANEL
VR	VAPOR RETARDER
VT	VINYL TILE
VWC	VINYL WALL COVERING
W	
W	WIDE/WEST
W/	WITH
W/O	WITHOUT
WC	WATER CLOSET
WD	WOOD
WIN	WINDOW
WM	WIRE MESH
WP	WATERPROOF/WATERPROO
VVI	FING
WPM	WATERPROOF MEMBRANE
WS	WATERPROOF MEMBRANE
WSCT	WAINSCOT
WT	WEIGHT
WV	WATER VALVE
WWF	WELDED WIRE FABRIC
WWM	WELDED WIRE MESH

SYS SYSTEM



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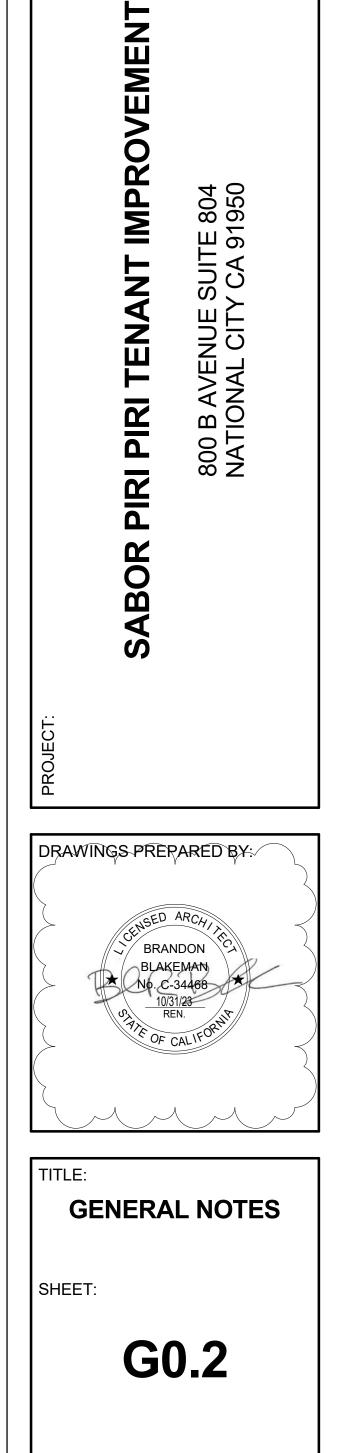
_____ $\langle 1t \rangle$ NORTH

SYMBOLS

- GRID MARKER
- CALL OUT
- CENTER LINE
- DOOR DESIGNATION
- INTERIOR ELEVATION
- EXTERIOR ELEVATION
- KEYNOTE
- **REVISION TAG**
- SECTION DESIGNATION
- WALL TAG
- NORTH ARROW



DRAWN BY: Author PROJECT # XX-XXX NUMBER DESCRIPTION DATE 4 NC REV 3 07/24/2023 			
NUMBER DESCRIPTION DATE	DRAWN BY:	Author	
	PROJECT #	XX-XXX	
4 NC REV 3 07/24/2023	NUMBER	DESCRIPTION	DATE
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HEALTH DEPARTMENT NOTES:

FLOORS:

1.THE FLOOR SURFACES OF A FOOD ESTABLISHMENT MUST BE DURABLE, CLEANABLE AND IMPERVIOUS TO WATER, FOOD, BY PRODUCTS AND CHEMICALS USED ON THE FLOOR FOR CLEANING OR OTHER PURPOSE.

2. FLOOR SURFACES IN ALL AREAS WHERE FOOD IS PREPARED, PACKAGED, DISPENSED OR STORED, WHERE ANY UTENSIL IS WASHED, WHERE REFUSE OR GARBAGE IS STORED, WHERE JANITORIAL FACILITIES ARE LOCATED, IN ALL TOILET AND HAND WASHING AREAS AND IN EMPLOYEE CHANGE AND STORAGE ROOMS, IS TO BE OF AN APPROVED FLOOR SURFACE THAT CONTINUES UP THE WALL AT LEAST FOUR INCHES WITH A 3/8" MINIMUM RADIUS COVE AS AN INTEGRAL UNIT. THIS EXTENSION OF THE FLOOR INCLUDES

TOE-KICKS OF COUNTERS AND EQUIPMENT THAT SETS FLUSH ON THE FLOOR. (VINYL RUBBER TOPSET COVE BASE IS NOT ACCEPTABLE). 3. FLOOR DRAINS ARE REQUIRED IN NEW TOILET ROOMS, IN AREAS WHERE DISH MACHINES ARE USED, IN JANITORIAL ROOMS WITH MOP SINKS, IN BARS EQUIPPED WITH BAR SINKS OR GLASS WASHERS, AND IN FRONT OF WALK-IN COOLERS OR EQUIPMENT WHICH ARE CLEANED BY WATER FLUSHING OR WHERE PRODUCTS ARE ICED DOWN. THE FLOOR SURFACE NEEDS TO SLOPE TO THE FLOOR DRAINS (1/4" PER FOOT). 4. FLOORING UNDER EQUIPMENT SHALL BE COMPLETELY SMOOTH FOR CLEANABILITY. FLOOR SURFACES THAT CONTAIN ANTI-SLIP AGENTS OR SURFACES ARE LIMITED TO FOOT

TRAFFIC AREAS ONLY. 5. ALL FLOOR MOUNTED EQUIPMENT WILL BE INSTALLED ON MINIMUM 6" SANITARY LEGS, CASTORS, OR COMPLETELY SEALED IN POSITION ON A 4" HIGH CURB WITH CONTINUOUSLY COVED BASE, COUNTERTOP EQUIPMENT WILL BE ON 4-INCH SANITARY LEGS OR SEALED TO THE COUNTER UNLESS READILY MOVABLE. 6. THE FLOOR FINISH WILL HAVE A SMOOTH SURFACE UNDER ALL EQUIPMENT AND WALKWAYS WILL HAVE A LIGHT TEXTURE ONLY. 7. PRIOR TO INSTALLATION, SAMPLES OF FINISHES TO BE SUBMITED TO ENVIRONMENTAL HEALTH FOR APROVAL AS NEEDED

WALLS:

1. WALLS IN ALL AREAS EXCEPT THE DINNIG SPACES ARE REQUIRED TO BE DURABLE SMOOTH SURFACED, LIGHT COLORED WITH AN EASILY CLEANABLE AND WASHABLE SURFACE. WALL SURFACES THAT CANNOT BE USED INCLUDE BRICK, CONCRETE BLOCK, ROUGH CONCRETE, ROUGH PLASTER, GROOVED PANELING, WALLPAPER, AND VINYL WALL COVERINGS. THESE SURFACES ARE EITHER TOO ROUGH, NOT CLEANABLE, OR

DON'T HAVE SUFFICIENT DURABILITY. 2. ACCEPTABLE WALL SURFACES INCLUDE GLOSS OR SEMI-GLOSS ENAMEL PAINT, APPROVED EPOXY COATINGS, FIBER REINFORCED PLASTIC (FRP) PANELS, CERAMIC TILE (LIGHT COLORED), SYNTHETIC ENAMEL PAINT, OR OTHER APPROVED MATERIALS WITH A LIGHT RELFLECTANT VALUE (LRV) OF 70% OR MORE. POLISHED STAINLESS STEEL SHEETING IS ACCEPTABLE IN THESE AREAS. FRP AND METAL FLASHING SURFACES NEED TO BE SEALED TO THE SUB-WALL SURFACES.

3. WALL SURFACES BEHIND SINKS (POTS AND PANS JANITORIAL, UTENSIL, FOOD PREPARATION, HAND BASINS) AND DISHWASHERS MUST HAVE A MINIMUM EIGHT (8) FOOT HIGH WATER RESISTANT OTHER APPROVED MATERIAL. FRP STAINLESS STEEL CERAMIC TILE, OR OTHER APPROVED MATERIALS ARE ACCEPTABLE IN THESE AREAS. FRP AND METAL FLASHING SURFACES NEED TO BE SEALED TO THE SUB-WALL SURFACE. 4. WALL SURFACES OF TOILET ROOMS ARE REQUIRED TO BE SMOOTH SURFACED AND CLEANABLE. WALLS BEHIND HAND BASINS, TOILETS, AND URINALS WILL NEED WAINSCOTTING THAT COMPLIES WITH LOCAL BUILDING DEPARTMENT REQUIREMENTS. IF WAINSCOTING IS REQUIRED, THE SURFACE NEEDS TO BE SMOOTH SURFACED, DURABLE, AND WATER RESISTANCE 5. WALL SURFACES OF 70% LRV OR GREATER ARE NOT REQUIRED IN BARS WHERE

ALCOHOLIC BEVERAGES ARE SOLD OR SERVED DIRECTLY TO THE CUSTOMER (EXCEPT BEHIND BAR SINKS, DINNING AND SALES AREAS, OFFICES, AND RESTROOMS THAT ARE USED EXCLUSIVELY BY PRATONS. 6. THE PAINT USED ON WALLS AND CEILINGS OF ALL KITCHEN, FOOD PREPARATION, WORK, AND STORAGE AREAS WILL BE A GLOSS OR SEMI GLOSS ENAMEL, FINISH MATERIAL SHALL BE A LIGHT COLOR IN FOOD PREP AREAS FOR EASY CLEANING.

CEILINGS:

1. CEILING SURFACES IN ALL FOOD PREPARATION ARES ARE REQUIRED TO BE SMOOTH SURFACED, LIGH-COLORED, AND EASILY CLEANABLE WITH A LIGHT REFLECTED VALUE (LRV) OF 70% OR MORE, ACCEPTABLE SURFACES INCLUDE GLOSS OR SEMI-GLOSS LIGHT COLORED ENAMEL PAINT, APPROVED EPOXY COATINGS, SMOOTH SURFACED LAY-IN VINYL PANELS (SAMPLE MAY BE REQUIRED) AND SIMILAR APPROVED SURFACES. . BLOWN OR ACOUSTICAL CEILING MATERIAL AND TEXTURED LAYING ACOUSTICA CEILING PANELS MAY BE USED ONLY IN DINNING ROOMS AND NON-FOOD PREPARATION OR HANDLING SPACES (E.G., HALLWAYS, PURE OFFICE SPACES, ETC. 3. WAITRESS STATIONS, SALAD BARS, FOOD SERVING, OR SELF-SERVICE OPEN FOOD COUNTERS OR OTHER SIMILAR STATIONS LOCATED IMMEDIATELY ADJACENT TO, OR IN THE DINING AREAS, NEED FOOD PREPARATION AREA REQUIREMENTS.

CONDUIT:

1. ALL PLUMBING, ELECTRICAL AND GAS LINES ARE REQUIRED TO BE CONCEALED WITHIN THE BUILDING STRUCTURE TO THE GREATEST EXTENT POSSIBLE ALL EXPOSED CONDUITS, PLUMBING, ETC. SHALL BE INSTALLED AT LEAST 6" OFF FLOOR AND 3/4 FROM WALLS USING STANDOFF BRACKETS. 2. WHERE CIRCUMSTANCES EXIST (PRIMARILY STRUCTURAL LIMITATIONS OR RESTRICTIONS OF THE BUILDING) SO THAT IT IS NOT POSSIBLE TO INSTALL CONDUIT BEHIND THE WALLS, THEN ALL CONDUIT RUNS ARE TO BE LOCATED AT LEAST 3/4 INCH AWAY FROM THE WALLS OR CEILINGS, AND MINIMUM OF SIX INCHES ABOVE THE FLOOR. CONDUIT IS TO BE INSTALLED SO THAT IS IS SECURED. 3. WHERE CONDUIT OR PLUMBING LINES ENTER A WALL. CEILING OR FLOOR. THE OPENING AROUND THE CONDUIT OR PLUMBING IS REQUIRED TO BE TIGHTLY SEALED TO PREVENT THE ENTRY OF RODENTS OR VERMIN. THE SEALANT MATERIAL NEEDS TO BE RODENT PROOF. 4. CONDUIT, PLUMBING OR PIPING CANNOT BE INSTALLED ACROSS ANY AISLE WAY,

TRAFFIC AREA OR DOOR OPENING. 5. MULTIPLE RUNS OR CLUSTERS OR CONDUIT OR PIPELINES ARE REQUIRED TO BE FURRED OUT AND ENCASED IN AN APPROVED RUNWAY OR OTHER SEALED ENCLOSURE. 6. FLOOR DRAINS SHALL BE INSTALLED IN FLOORS THAT ARE WATER FLUSHED FOR CLEANING AND IN AREAS WHERE PRESSURE SPRAY METHODS FOR CLEANING EQUIPMENT ARE USED, IN RESTROOMS, JANITORIAL ROOMS, SCULLERIES, AND AT BARS WITH WAREWASHING FLOOR SURFACES IN AREAS PURSUANT TO THIS SHALL BE SLOPED 1:50 TO THE FLOOR DRAINS. SHATTESHIELDS WILL BE PROVIDED FOR ALL LIGHTS ABOVE FOOD PREPARATION, WORK, AND STORAGE AREAS.

HEALTH DEPARTMENT NOTES

1. THE ESTABLISHMENT MUST CONFORM TO THE APPROVED PLANS. ANY CHANGES SHOULD BE RE-CHECKED BY THE PLAN CHECKER AT THE COUNTY OF SAN DIEGO ENVIRONMENTAL HEALTH

2. THERE MUST BE PROOF THAT THE BUILDING DEPT. AND FIRE DEPT. HAVE APPROVED THE ESTABLISHMENT ON SITE

3. UTILITIES (GAS, WATER, ELECTRICITY) MUST BE PROVIDED AT THE TIME OF INSPECTION

4. APPLICATION FOR A HEALTH PERMIT MUST HAVE BEEN MADE BEFORE FINAL APPROVAL TO OPEN

- 5. TOTAL SQUARE FOOTAGE OF THE ESTABLISHMENT IS 453 SQ. FT.
- 6. THE ESTABLISHMENT IS CONNECTED TO A MUNICIPAL SEWAGE SYSTEM
- 7. TYPE OF FOOD FACILITY: 100% PRE-PACKAGED X 100% SINGLE SERVICE MULTI-USE UTENSILS

8. ALCOHOLIC BEVERAGES WILL BE CONSUMED IN THE PREMISES: ___YES _X_NO

9. ALL EQUIPMENT AND INSTALLATION TO MEET THE NATIONAL SANITATION FOUNDATION REQUIREMENTS (NSF) STANDARDS OR EQUIVALENT

10. FIXED, SINGE SERVICE TOWEL OR HOT AIR BLOWERS AND SOAP DISPENSERS TO BE PROVIDED ADJACENT TO ALL HAND SINKS

11. ALL LAVATORIES OR HAND SINKS TO HAVE A COMBINATION FAUCET OR PRE-MIXING FAUCET CAPABLE OF SUPPLYING WARM WATER FOR A MINIMUM OF 10 SECONDS

12. JANITORIAL SINK FAUCETS TO BE APPROVED WITH AN APPROVED BACKFLOW PREVENTION DEVICE 13. COMMERCIAL WATER HEATER TO BE PROVIDED WHICH IS CAPABLE OF CONSTANTLY SUPPLYING HOT WATER AT A TEMPERATURE OF AT LEAST 120 DEGREES F TO ALL SINKS, HAND LAVATORIES AND OTHER CLEANUP FACILITIES

TRASH ENCLOSED

A CONCRETE SLAB IS PROVIDED FOR TRASH, GARBAGE, AND GREASE CONTAINER, IF WALLS ENCLOSE AREA, THE INTERIOR WALL SURFACES WILL BE SMOOTH, SEALED AND WASHABLE (EG, PLASTERED SMOOTH AND PAINTED, ETC.)

REFRIGERATION:

OPERATION.

1. ALL REFRIGERATION UNITS ARE REQUIRED TO HAVE AN ACCURATE, READILY VISIBLE WORKING THERMOMETER. THE THERMOMETER SHOULD BE PLACED IN THE WARMEST PART OF THE COMPARTMENT, USUALLY NEAR THE DOOR. 2. SHELVING OF THE REFRIGERATOR UNIT NEEDS TO BE NONABSORBENT AND EASILY

CLEANABLE, WOOD IS NOT AND ACCEPTABLE SHELVING MATERIAL. 3. THE INTERIOR OF THE REFRIGERATOR MUST HAVE SMOOTH, NONABSORBENT, AND EASILY CLEANABLE SURFACES. ALL JOINTS MUST BE SEALED. 4. CONDENSATE WASTE FROM REACH-IN REFRIGERATOR UNITS MUST BE DRAINED INTO THE PUBLIC SEWER VIA A FLOOR SINK WITH LEGAL AIR GAP. 5. RAPID COOL DOWN FACILITIES MAY BE REQUIRED DEPENDING UPON THE FOOD

WALK IN REFRIGERATION UNITS:

1. THE FLOOR OF A WALK-IN REFRIGERATOR UNIT IS REQUIRED TO HAVE AN INTEGRAL COVE BASE WITH A RADIUS OF AT LEAST 3/8" AT THE FLOOR-WALL JUNCTURE. THE FLOOR MATERIAL IS REQUIRED TO EXTEND UP THE WALL AT LEAST FOUR INCHES AND BE OF ONE-PIECE CONSTRUCTION. FOUR INCH APPROVED METAL TOPSET COVING WITH A MINIMUM 3/8" RADIUS IS ACCEPTABLE ONLY AGAINST METAL WALL SURFACES OF WALK-IN UNITS.

WOOD AND VINYL ARE NOT ACCEPTABLE FLOOR SURFACES FOR WALK-IN UNITS. 2. THE INTERIOR WALLS OF HE WALK IN UNIT ARE REQUIRED TO BE SMOOTH SURFACED, LIGHT COLORED, MOISTURE PROOF, DURABLE, AND ABLE TO WITHSTAND PROLONGED EXPOSURE TO LOW TEMPERATURES.

3. SHELVING OF A WALK-IN UNIT IS REQUIRED TO BE LISTED BY NSF OR HAVE AN EQUIVALENT CERTIFICATION. THE SHELVING MUST KEEP FOODS OFF THE FLOOR OF THE WALKING UNIT MINIMUM OF SIX INCHES. BE LEGS, OR BE CANTILEVERED FROM THE WALL SURFACE FOR EASE CLEANING.

4. CONDENSATE WASTE LINES ARE REQUIRED TO DRAIN TO A FLOOR SINK VIA LEGAL AIR GAP, LOCATED OUTSIDE OF THE WALK IN UNIT. FLOOR SINKS, FLOOR DRAINS, OR SEWER CLEANOUTS ARE NOT PERMITTED INSIDE A WALK-IN REFRIGERATOR UNIT. 5. THE CONDENSATE LINE MUST BE ROUTED TO THE NEAREST WALL AND THEN EXIT THE WALK-IN UNIT. THE CONDENSATE LINE CANNOT BE LOCATED CLOSER THAN 3/4 INCH TO THE WALL OR CEILING, AND NO CLOSER THAN SIX INCHES TO THE FLOOR. THE CONDENSATE LINE MUST BE CONSTRUCTED OR RIGID PIPING THAT IS SECURED TO THE ADJACENT WALL WITH THE CLEAREANCES AS INDICATED. 6. WALK-IN REFRIGERATOR UNITS ARE REQUIRED TO OPEN DIRECTLY INTO THE FOOD

ESTABLISHMENT 7. COLD STORAGE ROOMS SHALL BE PROVIDED WITH A SECTION OF SHELVING INSTALLED TO HOLD SHALLOW COOL DOWN PANS NOT TO EXCEED 4" IN HEIGHT SPACE BETWEEN SHELVING TO BE AT LEAST 8" HIGH.

FLOOR SINKS:

1. FLOOR SINKS ARE TO BE INSTALLED FLUSH WITH THE FLOOR SURFACE AND HAVE APPROPRIATE COVER GRATE(S)

2. FLOOR SINKS MUST BE INSTALLED SO THAT THEY ARE READILY ACCESSIBLE FOR INSPECTION, CLEANING, AND MAINTENANCE. APROTECTIVE ENCLOSURE WILL BE REQUIRED AROUND THE BACK SIDE OF HALF-EXPOSED FLOOR SINDS INSTALLED UNDER CURB OR BASE MOUNTED EQUIPMENT. 3. THE FLOOR SINK MUST BE LOCATED WITHIN FIFTEEN FEET OF THE DRAIN OPENING OF

THE EQUIPMENT SERVED. HOWEVER, FLOOR SINKS FOR ICE MACHINES MUST BE LOCATED IMMEDIATELY ADJACENT TO THE ICE MACHINE. 4. WASTE LINE PLUMBING DRAINING TO THE FLOOR SINK MUST BE LOCATED AT LEAST

3/4 INCH FROM THE WALL AND SIX INCHES OFF THE FLOOR. THE PIPING IS TO TERMINATE AT LEAST ONE INCH ABOVE THE OVERFLOW RIM OF THE FLOOR SINK, OR THE MINIMUM CLEARANCE OF DISCHARGE PIPE). 5.WASTE LINE PLUMBING TO A FLOOR SINK MAY NOT CROSS ANY AISLE WAY, TRAFFIC

AREA. OR DOOR OPENING 7. ALL LIQUID WASTE SHALL BE DRAINED BY MEANS INDIRECT WASTE PIPES INTO A FLOOR SINK, FLOOR SINKS ARE TO BE INSTALLED FLUSH WITH THE FINISHED FLOOR SURFACE AND HAVE SUITABLE EASILY REMOVABLE SAFETY COVER GRATES. 8. FLOOR SINK TO BE 50% EXPOSED WHEN NO ACCESS IS PROVIDED FOR CLEANING OR BE IN LINE WITH THE FRONT FACE OF ELEVATED FREEST ANDING EQUIPMENT.

KITCHEN UTENSIL SINK:

1. A THREE COMPARTMETN STAINLESS STEEL SINK WITH DUAL, INTEGRALLY INSTALLED STAINLESS STELL DRAINBOARDS MEETING CURRENT NSF STANDARDS IS REQUIRED FOR FOOD ESTABLISMENTS WASHING MULTI-SERVICE KITCHEN UTENSILS (I.E. POTS, PANS, KNIVES, UTENSILS, ETC.).

2. THE MINIMUM COMPARTMETN SIZE IS REQUIRED TO BE AT LEAST 18" BY 18" BY 12" DEEP. TEH DRAINBOARDS ARE REQUIRED TO BE A MINIMUM OF 18" BY 18" BY 18". 3. WHEN A SINK IS INSTALLED NEXT TO A WALL. A METAL "BACKSPLASH" EXTENDING UP THE ALL AT LEAST EIGHT INCHES WILL BE REQUIRED AS PART OF AND INTEGRAL TO THE SINK. THE BACKSPLASH NEEDS TO BE SEALED TO THE WALL TO CLOSE ANY GAPS BETWEEN THE SHEET METAL AND WALL SURFACE.

4. ALL FOOD-RELATED AND UTENSIL-RELATED EQUIPMENT SHALL MEET OR BE EQUIVALENT TO SANITATION STANDARS ESTABLISHED BY AN AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI) ACCREDITED PROGRAM. 5. ALL WAREWASHING SINKS TO HAVE 3 COMPARTMENTS THAT ARE MINIMUM SIZE OF AT LEAST 18"X18"X12" DEEP (OR 16"X20"X12") WITH A MINIMUM 18" DRAIN BOARD AT

EACH END. IF AGAINST A WALL, IT MUST HAVE AN 8" INTEGRAL BACK SPLASH, HOWEVER. IT MUST BE CAPABLE OF ACCOMMODATING THE LARGEST UTENSIL TO BE WASHED. A WAREWASHING MACHINE DOES NOT SUBSTITUTE FOR THE SINK REQUIREMENT. 6. SINKS TO HAVE SPOUT(S) CAPABLE OF REACHING EACH COMPARTMENT.

7. THE 3 OR 4 COMPARTMENT BAR SINK TO BE AT LEAST 12"X12"X10" DEEP (OR 10"X14"X10" DEEP) WITH A MINIMUM 18" DRAINBOARD AT EACH END.

FOOD PREPARATION SINKS:

1. FOOD ESTABLISHMENTS UTILIZING A SINK FOR FOOD PREPARATION, SUCH AS

SINK.

HANDWASHING SINKS:

DRY STORAGE SPACE.

CONSTRUCTED OF METAL

1. TOILET FACILITIES ARE REQUIRED WITHIN EACH FOOD FACILITY AND MUST BE ACCESSIBLE FOR THE EMPLOYEES. EXISTING TOILET FACILITIES MUST BE MINIMUM OF

TWENTY SQUARE FEET IN FLOOR SURFACE AREA. NEWLY CONSTRUCTED TOILET ROOMS WILL BE LARGER IN ORDER TO COMPLY WITH HANDICAP REQUIREMENTS UNDER AMERICANS WITH DISABILITIES ACT (ADA). 2. TOILET ROOM DOORS SHALL BE SELF-CLOSING AND TIGHT FITTING WITH A 1" AIR GAP.

RESTROOMS:

INCHES OFF THE FLOOR SURFACE.

3. ALL TOILET ROOMS SHALL BE PROVIDED WITH VENTILATION MEETING THE REQUIREMENTS OF THE UNIFORM MECHANICAL CODE AND/OR UNIFORM BUILDING CODE.

THAWING, WASHING, ETC., ARE REQUIRED TO HAVE AT LEAST A ONE COMPARTMENT FOOD

PREPARATION SINK, SEPARATE FROM UTENSIL WASHING SINKS. THE FOOD PREPARATION

SINK SI REQUIRED TO DRAIN TO AN ADJANCENTLY LOCATED FLOOR SINK VIA LEGAL AIR

16"X20"X12" DEEP) WITH A MINIMUM 18" DRAINBOARD SEPARATE FOOD PREP SINKS TO

4. A SEPARATE WET WASTE DUMP FIXTURE SHALL BE PROVIDED FOR DISPOSAL OF

1. ALL AUTOMATIC DISHWASHERS, PAN WASHERS, AND GLASS WASHERS MUST BE

ISSUE OF STANDARD #3. DEVICES NOT LISTED IN STANDARD #3 MAY NOT BE USED IN

2. ALL SPRAY TYPE DISHWASHERS, PAN WASHERS AND GLASS WASHERS WHICH ARE

DESIGNED FOR A HOT WATER BACTERICIDAL RINSE ARE REQUIRED TO BE PROVIDED

INTERNATIONAL, OR BE CONNECTED TO AN APPROVED HOT WATER RECIRCULATING

SYSTEM WHICH IS CAPABLE OF MAINTAINING THE RINSE WATER AT NOT LESS THAN

180EF. THESE TYPES OF DISHWASHERS WILL REQUIRE THE INSTALLATION OF AN

INTEGRAL STAINLESS STEEL DRAINBOARDS AT LEAST 18 INCHES LONG.

DRAIN PLUMBING FOR THE FLOOR SINK MUST HAVE A MINIMUM 3" TRAP.

THE MACHINE IS NOT MOUNTED ON CASTERS.

JANITORIAL SINK AND SUPPLIES:

LISTED BY THE NATIONAL SANITATION FOUNDATION INTERNATIONAL (NSF) IN THE LATEST

WITH A BOOSTER HEATER THAT MEETS THE REQUIREMENTS OF STANDARD #5 OF THE NSF

APPROVED EXHAUST HOOD TO REMOVED STEAM, HEAT AND VAPORS GENERATED BY THE

3. DISHWASHERS, PAN WASHERS, AND GLASS WASHERS ARE REQUIRED TO HAVE TOW

4. THE DISHWASHER MUST ALSO BE PROVIDED WITH THERMOMETERS AND PRESSURE

GAUGES TO INDICATE THE PROPER WATER FLOW PRESSURES AND TEMPERATURES.

REQUIRED TO DRAIN TO AN ADJACENT FLOOR SINK VIAL LEGAL AIR GAP. THE UNDER

6. UNDERCOUNTER-TYPE AUTOMATIC DISHWASHERS NEED TO BE PLACED ON CURBING IF

1. THE JANITORIAL SINK IS REQUIRED TO BE LOCATED IN A SEPARATE JANITORIAL ROOM

HORIZONTAL DISTANCE OR BY A SOLID PARTITION. THE PARTITION MUST BE WALL

3. FOR CLEANING FLOOR MATS, THE JANITORIAL SINK TO BE A MINIMUM 24" BY 36"

4. THE JANITORIAL SINK FAUCET WILL HAVE A THREADED OUTER LIP FOR HOSE

ATTACHMENT AND AN APPROVED BACKFLOW PREVENTION DEVICE NO CHEMICAL

5. NO CONDENSATE WASTEWATER INCLUDING HVAC WILL DRAIN INTO THE JANITORIAL

1. HANDSINKS ARE REQUIRED TO BE PLACED IN EACH FOOD PREPARATION AREA. EACH

HANDWASH SINK SHALL PROVIDE HOT AND COLD RUNNING WATER UNDER PRESSURE

2. SOAP AND SANITARY TOWELS ARE REQUIRED TO BE PROVIDED IN SINGLE-ERVICE,

4. IF A HANDSINK IS LOCATED DIRECTLY ADJACENT TO A FOOD PREPARATION OR

LENGTH OF THE SINK AND AT LEAST TWELVE INCHES HEIGHT & WATERPROOF.

2. SHELVING NEEDS TO BE DESIGNED AND CONSTRUCTED SO AS TO BE EASILY

SPACE BETWEEN THE BACK EDGE OF THE SHELF AND THE WALL SURFACE.

CONTINUOUSLY A MINIMUM OF FOUR INCHES WITH A 3/8 INCH RADIUS.

CLEANABLE. SHELVING LOCATED OVER SINKS AND OTHER WET AREAS MUST BE

3. SHELVES INSTALLED ON A WALL ARE TO HAVE A MINIMUM ONE INCH GAP OR OPEN

ACCESS UNDERNEATH. IF THE SPACE BELOW IS NOT TO BE ACCESSIBLE. THEN THE

4. THE LOWEST SHELF MUST BE CONSTRUCTED AT LEAST SIX INCHES ABOVE THE FLOOR

OPENING IS TO BE SEALED OFF. WITH THE FLOOR SURFACE COVING UP THE SEAL FACE

5. THE SHELVING IS MOUNTED ON LEGS ARE TO BE AT LEAST SIX INCHES IN HEIGHT AND

CONSTRUCTED OF METAL MEETING THE REQUIREMENTS OF THE NSF FOR METAL LEGS.

6. BACKUP DRY STORAGE SHELVING SHALL BE A MINIMUM 96 LINEAR FEET (MEASURED

GREATER, SHELVING SHALL BE AT LEAST 18 INCHES DEEP AND START A MINIMUM SIX

WITH TIERS) OR 25% OF KITCHEN, FOOD PREP, AND WORK AREAS, WHICHEVER IS

SURFACE WITH THE SPACE UNDER THE SHELF CLEAR AND UNOBSTRUCTED FOR CLEANING

UTENSIL-WASHING SINK, THEN A BARRIER IS REQUIRED TO PREVENT SPLASH OVER FROM

1. AT LEAST NINETY-SIX FEET OF APPROVED SHELVING UNITS ARE REQUIRED FOR BACK-UP

THE HADNDSINK TO THE FOOD PREPARATION/UTENSIL SINK. THE BARRIER IS TO BE THE

3. A SEPARATE HANDSINK MUST BE INSTALLED IN EACH SECTION OF A FOOD

MOUNTED, FREE STANDING, DURABLE, SMOOTH, AND EASILY CLEANABLE.

APPROVED BACK-FLOW PREVENTION DEVICE ATTACHED.

(UNLESS A SIDEKICK PLUMBING DEVICE IS INSTALLED).

THROUGH A MIXING TYPE FAUCET IS REQUIRED.

DRY FOOD AND BEVERAGE STORAGE:

AIR-DRY WITHOUT SOILING WALLS, EQUIPMENT, OR SUPPLIES.

PERMANENTLY INSTALLED DISPENSERS AT EACH HANDSINK.

(I.E., DELI, MEAT, BAKERY, BEVERAGE BARS, SUSHI BAR, BAR, ECT.

ESTABLISHMENT WHICH HANDLES UNPACKAGED FOOD

OR SEPARATED FROM THE REST OF THE FOOD ESTABLISHMENT EQUIPMENT WITH 18" OF

2. ALL JANITORIAL SINKS ARE TO BE SUPPLIED WITH HOT AND COLD RUNNING WATER TO

FLOOR MOUNTED TYPE MOPS SHALL BE PLACED IN A POSITION THAT ALLOWS THEM TO

DISPENSING SYSTEM OR SHUTOFF VALVES TO BE ATTACHED TO MOP SINK FAUCET OUTLET

A MIXING TYPE FAUCET WITH 3/4" HOSE OUTLET. THE FAUCET FIXTURE IS TO HAVE AN

5. ALL WASTE FROM DISHWASHERS, PAN WASHERS, AND GLASS WASHERS ARE

3. FOOD PREP SINK COMPARTMENT(S) TO BE AT LEAST 18"X18"X12" DEEP (OR

DRINK OR WASTE ICE OR COFFEE WASTE DRAINBOARD AT EACH END.

2. FOOD PREPARATION SINKS MUST MEET ALL NSF STANDARDS.

BE PROVIDED FOR MEATS AND PRODUCE.

DISHWASHERS/GLASS WASHERS

PUBLIC FOOD ESTABLISHMENTS

DISHWASHING MACHINE.

MISCELLANEOUS ITEMS:

WATER SUPPLY TO CARBONATORS SHALL BE PROTECTED BY AN APPROVED REDUCED PRESSURE PRINCIPLE BACK FLOW PREVENTOR. THE RELIEF VALVE SHALL DRAIN

INDIRECTLY TO SEWER WITH A LEGAL AIR GAP. 2. WATER TYPE STEAM TABLES, STEAM KETTLES, WOKS, AND OTHER WATER

EQUIPMENT MUST HAVE A FILL FAUCET FOR REPLENISHING/ADDING WATER TO THE DEVICE. THESE DEVICES ALSO NEED TO BE PROPERLY DRAINED TO A FLOOR SINK A LEGAL AIR GAP SEPARATION.

3. IF SOFT DRINK, ICE, OR OTHER DISPENSERS ARE SELF-SERVICE BY THE CUSTOMER, THEN THEY MUST BE OF THE PUSH-BUTTON TYPE OR OTHER APPROVED DISPENSER WHERE THE CUP IS NOT USED IN THE ACTUATION OF THE DISPENSERS SHOULD BE PROVIDED AT THE SELF-SERVICE AREAS.

CLOTHING CHANGE ROOMS/AREA:

A SEPARATE CHANGE ROOM FOR EACH SEX, OF AT LEAST TWENTY SQUARE FEET IN FLOOR SURFACE AREA, SEPARATE FROM TOILETS, FOOD STORAGE OR FOOD PREPARATIOON AREAS IS REQUIRED WHERE THERE ARE TEN OR MORE EMPLOYEES

SHIFT. ADDITIONALLY, SEPARATE CHANGE ROOMS ARE REQUIRED WHEN EMPLOYEES

CHANGE FROM STREET CLOTHES INTO A UNIFORM OR WORK CLOTHING PROVIDED BY THE ESTABLISMENT, AND STORE THEIR OUTER GARMENTS ON THE PREMISES.

EXTERIOR, ENTRY, EXIT, AND CARGO DOORS: ALL EXTERIOR DOORS OF A FACILITY ARE TO OPEN OUTWARD AND ARE TO BE SELF-CLOSING.

LIGHTING:

1. A MINIMUM OF TWENTY (20) FOOT CANDLES OF LIGHT, AS MEASURED THIRTY INCHES ABOVE THE FLOOR IS NECESSARY IN FOOD PREPARATION AREAS

DISHWASHING AREAS AND THE GLASS WASHING AREAS OF BARS (EXCEPT WHERE ALCOHOLIC

BEVERAGES ARE SERVED). 2. A MINIMUM OF (10) FOOT-CANDLES OF LIGHT IS NECESSARY IF FOOD AND UTENSIL

STORAGE ROOMS, BAR WASHING, REFRIGERATION STORAGE SPACES, TOILET ROOMS AND DRESSING ROOMS 3. SHATTER SHIELDS WILL BE PROVIDED FOR ALL LIGHTS ABOVE FOOD PREPARATION,

WORK, AND STORAGE AREAS. 4. A MINIMUM OFF 10 FOOT CANDLES OF LIGHT MEASURED 30" OFF FLOOR IS PROVIDED IN WALK, IN REFRIGERATED STORAGE AND DRY STORAGE ROOMS AND AT LEAST 20 FOOT CANDLES IS PROVIDED WHERE FOOD IS PROVIDED CONSUMER SELF SERVICE, WHERE FRESH PRODUCE OR PREPACK AGED FOODS ARE SOLD OR OFFERED FOR CONSUMPTION, INSIDE EQUIPMENT SUCH AS REACH IN AND UNDER COUNTER REFRIGERATORS, IN AREAS USED FOR HAND WASHING, EQUIPMENT AND UTENSIL STORAGE, AND IT TOILET ROOMS.

5. A MINIMUM OF 50 FOOT CANDLES OF LIGHT MEASURED 30" OFF FLOOR IS PROVIDED WHEN WORKING WITH FOOD OR WORKING WITH UTENSILS OR EQUIPMENT SUCH AS KNIVES, SUCERS, GRINDERS, OR SAWS WHERE EMPLOYEE SAFETY IS A FACTOR AND

ALL AREAS DURING PERIODS OF CLEANING. 6. SHATTER SHIELDS FOR ALL LIGHTS ABOVE FOOD PREPARATION, WORK, AND STORAGE AREAS WILL BE PROVIDED.

VENTILATION:

1. A MINIMUM OF TWELVE (12) AIR CHANGES PER HOUR IS NEEDED IN ALL TOILET ROOMS, JANITOR CLOSETS WITH MOP SINKS, ANTEROOMS LEADING TO TOILET ROOMS.

AND DRESSING ROOMS. THE RATING OF EXHAUST FAN, EXPRESSED IN CUBIC FEET THIS VENTILATION. THE LIGHT SWITCH FOR THE ROOM SHOULD ACITVATED

FXHAUST FANS IN THESE AREAS. MECHANICAL EXHAUST FANS ARE TO EXHAOUST ONLY TO

OUTSIDE AIR. DEAD SPACE EXHAUSTING IS NOT PERMITTED. 2. AN ACCEPTABLE ALTERNATIVE METHOD OF VENTILATION FOR TOILETS. TOILET ANTEROOMS, AND DRESSING ROOMS MAY BE A SCREENED WINDOW OPENING OF AT

LEAST THREE (3) SQUARE FEET IN AREA, ONE-HALF OF WHICH IS OPEN AREA. 3. DUCTLESS FANS ARE NOT APPROVED FOR VENTILATION USE. 4. ANY OPENABLE WINDOWS VENT OPENINGS OR OTHER SIMILAR OPENINGS MUST

PROVIDED WITH TIGHT FITTING SCREENS OF MINIMUM 16 MESH TO THE INCH. 5. ALL EXTERIOR DOORS OPEN OUTWARD AND APE SELF-CLOSING AND TIGHT FITTING

6. DELIVERY DOORS TO HAVE AIR CURTAIN FANS THAT SPAN THE WIDTH OVER THE DOOR, THE FAN MUST ACTIVATE VIA A MICROSWITCH PROVIDING A MINIMUM VELOCITY

OF 1600 FPM MEASURED 3 FEET ABOVE THE GROUND. 7. ADEQUATE VENTILATION IS TO BE PROVIDED TO ALL TOILETS ROOMS, JANITOR CLOSETS WITH MOP SINS, AND INDOOR TRASH ROOMS AND IN DRESSING/CHANGE ROOM(S).

EQUIPMENT:

1. ALL NEW AND REPLACEMENT EQUIPMENT SHALL MEET OR BE EQUIVALENT TO APPLICABLE NSF INTERNATIONAL STANDARDS. 2. ALL EQUIPMENT SHALL BE PLACED ON MINIMUM SIX INCH HIGH, NSF

INTERNATIONAL

TYPE METAL LEGS, OR COMPLETELY SEALED IN POSITION ON A FOUR INCH HIGH CONTINUOUSLY COVED BASE OR CONCRETE CURB, OR ON APPROVED CASTERS. OR CANTILEVERED FROM THE WALL IN AN APPROVED MANNER. 3. SHELVING OVER WET AREAS (SINK, MOP, ETC) AND FOOD PREP SURFACES WILL

METAL.

BACKFLOW PREVENTION:

1. ANY TYPE OF DRAIN DISPENSING INTO A FLOOR SINK REQUIRES A LEGAL AIR GAP SEPARATION OF NO LESS THAN ONE INCH MEASURED VERTICALLY FROM THE END

THE DISCHARGE PIPE TO THE OVERFLOW RIM OF THE FLOOR SINK AND/OR AN AIR SEPARATION WHICH IS TWICE THE DIAMETER OF THE DISCHARGE PIPE, WHICHEVER

GREATER 2. SUBMERGED INLETS REQUIRED BACKFLOW PREVENTION DEVICES INSTALLED CONSISTENT WITH THE REQUIREMENTS OF THE LOCAL PLUMBING INSPECTOR. 3. APPROVED BACK FLOW PREVENTION DEVICES SHALL BE PROPERLY INSTALLED UPSTREAM ANY POTENTIAL HAZARD BETWEEN THE POTABLE WATER SUPPLY AND A SOURCE OF CONTAMINATION, HOSES SHALL NOT BE ATTACHED TO A FAUCET OR HOSE

BIBB UNLESS AN APPROVED BACKFLOW PREVENTERS IS PROVIDED. 4. WATER SUPPLY TO CARBONATORS SHALL BE PROTECTED BY AN APPROVED REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTED, THE RELIEF VALVE SHALL DRAIN INDIRECTLY TO SEWER WITH A LEGAL AIR GAP.M

GREASE TRAPS/INTERCEPTORS-SEWAGE DISPOSAL:

1.GREASE TRAPS (LARGE VOLUME TANK) ARE TO BE INSTALLED OUTSIDE OF THE FOOD ESTABLISHMENT. THESE LARGE VOLUME TANKS ARE INSTALLED IN THE GROUND. 2.GREASE TRAPS (SMALL VOLUME TANK) SHALL BE INSTALLED OUTSIDE OF A FOOD ESTABLISHMENT (WHEREVER POSSIBLE) IN ACCORDANCE TO WITH PLUMBING CODES.

3.GREASE TRAP TO BE LOCATED OUTSIDE THE FOOD SERVICE ACTIVITY AREA, FLUSH WITH THE FINISHED FLOOR WHEN INDOORS LOCAL WASTE WATER DISTRICT OR BUILDING DEPARTMENT TO BE CONTACTED FOR GREASE REMOVAL REQUIREMENTS

ENVIRONMENTAL HEALTH NOTES

THE FOLLOWING ENVIRONMENTAL HEALTH NOTES ARE TO BE PLACED ON YOUR PLANS TO ASSIST IN PROVIDING CLEAR DIRECTION BETWEEN THOSE INVOLVED IN THE ACTUAL CONSTRUCTION OF A FOOD FACILITY INCLUDING CONTRACTORS AND ENVIRONMENTAL HEALTH SPECIALISTS. THESE NOTES WILL ENCOMPASS MOST FOOD FACILITIES BUT ARE NOT MEANT TO BE COMPREHENSIVE FOR ALL FOOD FACILITIES OR SITUATIONS: 1.A CONCRETE SLAB IS PROVIDED FOR TRASH, GARBAGE, AND GREASE CONTAINER. IF WALLS ENCLOSE AREA, THE INTERIOR WALL SURFACES WILL BE SMOOTH, SEALED AND WASHABLE (E.G., PLASTERED SMOOTH AND PAINTED, ETC.). 2. ALL FOOD-RELATED AND UTENSIL-RELATED EQUIPMENT SHALL MEET OR BE EQUIVALENT TO SANITATION STANDARDS ESTABLISHED BY AN AMERICAN NATIONAL

STANDARDS INSTITUTE (ANSI) ACCREDITED PROGRAM. 3. ALL FLOOR MOUNTED EQUIPMENT WILL BE INSTALLED ON MINIMUM 6" SANITARY LEGS, CASTORS, OR COMPLETELY SEALED IN POSITION ON A 4 " HIGH CURB WITH CONTINUOUSLY COVED BASE. COUNTERTOP EQUIPMENT WILL BE ON 4-INCH SANITARY LEGS OR SEALED TO THE COUNTER UNLESS READILY MOVABLE. 4. IF SOFT DRINK, ICE OR OTHER DISPENSERS ARE SELF-SERVICE, OR IF REFILLS ARE PROVIDED THEY MUST BE PUSH BUTTON TYPES, OR LEVER TYPES WHERE THE LEVER CONTACTS THE CONTAINER AT LEAST ONE INCH BELOW THE RIM.

5. ANY OPENABLE WINDOWS VENT OPENINGS OR OTHER SIMILAR OPENINGS MUST BE PROVIDED WITH TIGHT FITTING SCREENS OF MINIMUM 16-MESH TO THE INCH. WINDOWS TO BE FIXED AT FOOD PREP, UTENSIL-WASHING, OPEN FOOD AND UTENSIL STORAGE AREAS. 6. ALL EXTERIOR DOORS OPEN OUTWARD AND ARE SELF-CLOSING AND TIGHT FITTING.

7. BI-FOLD, FRENCH, ACCORDION STYLE AND ROLL-UP DOORS CANNOT OPEN INTO THE FOOD PREP, UTENSIL WASHING OR UNPACKAGED FOOD SERVICE AREAS. 8. TOILET ROOM AND DRESSING ROOM DOORS MUST BE SELF-CLOSING, TIGHT FITTING. 9. DELIVERY DOORS TO HAVE AIR CURTAIN FANS THAT SPAN THE WIDTH OVER THE DOOR. THE FAN MUST ACTIVATE VIA A MICROSWITCH PROVIDING A MINIMUM VELOCITY OF 1600 FPM MEASURED 3 FEET ABOVE THE GROUND. 10. A MINIMUM OF 10 FOOT-CANDLES OF LIGHT MEASURED 30" OFF FLOOR IS PROVIDED IN WALK-IN REFRIGERATED STORAGE AND DRY STORAGE ROOMS AND AT LEAST 20-FOOT CANDLES IS PROVIDED WHERE FOOD IS PROVIDED FOR CONSUMER SELF-SERVICE, WHERE FRESH PRODUCE OR PREPACKAGED FOODS ARE SOLD OR OFFERED FOR CONSUMPTION; INSIDE EQUIPMENT SUCH AS REACH-IN AND UNDER-COUNTER REFRIGERATORS; IN AREAS USED FOR HANDWASHING, WAREWASHING, EQUIPMENT AND UTENSIL STORAGE, AND IN TOILET ROOMS 11. A MINIMUM OF 50 FOOT-CANDLES OF LIGHT MEASURED 30" OFF FLOOR IS PROVIDED WHEN WORKING WITH FOOD OR WORKING WITH UTENSILS OR

EQUIPMENT SUCH AS KNIVES, SLICERS, GRINDERS, OR SAWS WHERE EMPLOYEE SAFETY IS A FACTOR AND IN ALL AREAS DURING PERIODS OF CLEANING. 12. SHATTERSHIELDS FOR ALL LIGHTS ABOVE FOOD PREPARATION, WORK, AND STORAGE AREAS WILL BE PROVIDED. 13. ALL WAREWASHING SINKS TO HAVE 3 COMPARTMENTS THAT ARE A MINIMUM

SIZE OF AT LEAST 18"X18"X12" DEEP (OR 16"X20"X12" DEEP) WITH A MINIMUM 18" DRAINBOARD AT EACH END. IF AGAINST A WALL, IT MUST HAVE AN 8" INTEGRAL BACKSPLASH. HOWEVER, IT MUST BE CAPABLE OF ACCOMMODATING THE LARGEST UTENSIL TO BE WASHED. A WAREWASHING MACHINE DOES NOT SUBSTITUTE FOR THE SINK REQUIREMENT.

14. SINKS TO HAVE SPOUT(S) CAPABLE OF REACHING EACH COMPARTMENT. 15. FOOD PREP SINK COMPARTMENT(S) TO BE AT LEAST 18"X18"X12" DEEP (OR 16"X20"X12" DEEP) WITH A MINIMUM 18" DRAINBOARD. SEPARATE FOOD PREP SINKS TO BE PROVIDED FOR MEATS AND PRODUCE. 16. THE 3 OR 4 COMPARTMENT BAR SINK TO BE AT LEAST 12"X12"X10" DEEP (OR

10"X14"X10" DEEP) WITH A MINIMUM 18" DRAINBOARD AT EACH END. 17. A SEPARATE WET WASTE DUMP FIXTURE SHALL BE PROVIDED FOR DISPOSAL OF DRINK OR WASTE ICE OR COFFEE WASTE.

18. EACH HANDWASHING SINK MUST HAVE PERMANENTLY MOUNTED SINGLE-SERVICE SOAP AND PAPER TOWEL DISPENSERS. 19. THE HOT WATER HEATER WILL BE A COMMERCIAL TYPE CAPABLE OF CONSTANTLY

SUPPLYING HOT WATER AT A TEMPERATURE OF 120⁰F TO ALL SINKS. IN SIZING THE WATER HEATER, THE PEAK HOURLY DEMAND FOR ALL SINKS, ETC., ARE ADDED TOGETHER TO DETERMINE THE MINIMUM REQUIRED RECOVERY RATE. 20. ALL LAVATORIES OR HAND SINKS WILL HAVE A COMBINATION FAUCET OR PREMIXING FAUCET CAPABLE OF SUPPLYING WATER TEMPERED TO 100°F.

SELF-CLOSING OR METERED FAUCET TO PROVIDE AT LEAST 15 SECONDS OF WATER WITHOUT REACTIVATION. 21. ALL PLUMBING, ELECTRICAL AND GAS LINES SHALL BE CONCEALED WITHIN

THE BUILDING STRUCTURE TO AS GREAT AN EXTENT AS POSSIBLE. ALL EXPOSED CONDUITS. PLUMBING. ETC. SHALL BE INSTALLED AT LEAST 6" OFF FLOOR AND 3/4" FROM WALLS USING STANDOFF BRACKETS. 22. CONDUITS, PLUMBING OR PIPING CANNOT BE INSTALLED ACROSS ANY

AISLE WAY, TRAFFIC AREA OR DOOR OPENING. 23. MULTIPLE RUNS OR CLUSTERS OF CONDUIT OR PIPELINES SHALL BE FURRED IN OR ENCASED IN AN APPROVED SEALED ENCLOSURE.

24. ALL LIQUID WASTE SHALL BE DRAINED BY MEANS OF INDIRECT WASTE PIPES INTO A FLOOR SINK. FLOOR SINKS ARE TO BE INSTALLED FLUSH WITH THE FINISHED FLOOR SURFACE AND HAVE SUITABLE EASILY REMOVABLE SAFETY COVER GRATES

25. FLOOR SINK TO BE 50% EXPOSED WHEN NO ACCESS IS PROVIDED FOR CLEANING OR BE IN LINE WITH THE FRONT FACE OF ELEVATED FREESTANDING FOUIPMENT.

26.APPROVED BACKFLOW PREVENTION DEVICES SHALL BE PROPERLY INSTALLED UPSTREAM OF ANY POTENTIAL HAZARD BETWEEN THE POTABLE WATER SUPPLY AND A SOURCE OF CONTAMINATION. HOSES SHALL NOT BE ATTACHED TO A FAUCET OR HOSE BIBB UNLESS AN APPROVED BACKFLOW PREVENTER IS PROVIDED. 27. WATER SUPPLY TO CARBONATORS SHALL BE PROTECTED BY AN APPROVED REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTER. THE RELIEF VALVE SHALL DRAIN INDIRECTLY TO SEWER WITH A LEGAL AIR GAP.

28. FOR CLEANING FLOOR MATS, THE JANITORIAL SINK TO BE A MINIMUM 24" BY 36" FLOOR-MOUNTED TYPE. MOPS SHALL BE PLACED IN A POSITION THAT ALLOWS THEM TO AIR-DRY WITHOUT SOILING WALLS, EQUIPMENT, OR SUPPLIES. 29. THE JANITORIAL SINK FAUCET WILL HAVE A THREADED OUTER LIP FOR HOSE ATTACHMENT AND AN APPROVED BACKFLOW PREVENTION DEVICE. NO CHEMICAL DISPENSING SYSTEMS OR SHUTOFF VALVES TO BE ATTACHED TO MOP SINK FAUCET OUTLET (UNLESS A "SIDEKICK" PLUMBING DEVICE IS INSTALLED). 30. NO CONDENSATE OR WASTEWATER INCLUDING HVAC WILL DRAIN INTO THE

JANITORIAL SINK. 31. GREASE TRAP TO BE LOCATED OUTSIDE THE FOOD SERVICE ACTIVITY AREA, FLUSH WITH THE FINISHED FLOOR WHEN INDOORS. LOCAL WASTEWATER DISTRICT OR BUILDING DEPARTMENT TO BE CONTACTED FOR GREASE REMOVAL REQUIREMENTS. 32. FLOOR DRAINS SHALL BE INSTALLED IN FLOORS THAT ARE WATER-FLUSHED FOR CLEANING AND IN AREAS WHERE PRESSURE SPRAY METHODS FOR CLEANING EQUIPMENT ARE USED, IN RESTROOMS, JANITORIAL ROOMS, SCULLERIES, AND AT BARS WITH WAREWASHING.

FLOOR SURFACES IN AREAS PURSUANT TO THIS SHALL BE SLOPED 1:50 TO THE FLOOR DRAINS. 33. ADEQUATE VENTILATION IS TO BE PROVIDED TO ALL TOILET ROOMS. JANITOR

CLOSETS WITH MOP SINKS, AND INDOOR TRASH ROOMS AND IN DRESSING/CHANGE ROOM(S) 34. THÈ ÉLOOR FINISH WILL HAVE A SMOOTH SURFACE UNDER ALL EQUIPMENT AND

WALKWAYS WILL HAVE A LIGHT TEXTURE ONLY. 35. THE PAINT USED ON WALLS AND CEILINGS OF ALL KITCHEN, FOOD PREPARATION. WORK, AND STORAGE AREAS WILL BE A GLOSS OR SEMI-GLOSS ENAMEL. FINISH MATERIAL SHALL BE A LIGHT COLOR IN FOOD PREP AREAS FOR EASY CLEANING.

36. PRIOR TO INSTALLATION, SAMPLES OF FINISHES TO BE SUBMITTED TO ENVIRONMENTAL HEALTH FOR APPROVAL AS NEEDED 37. COLD STORAGE ROOMS SHALL BE PROVIDED WITH A SECTION OF SHELVING INSTALLED TO HOLD SHALLOW COOL DOWN PANS -NOT TO EXCEED 4" IN HEIGHT

SPACE BETWEEN SHELVING TO BE AT LEAST 8" HIGH. 38. BACKUP DRY STORAGE SHELVING SHALL BE A MINIMUM OF 96 LINEAR FEET (MEASURED WITH TIERS) OR 25% OF KITCHEN, FOOD PREP, AND WORK AREAS, WHICHEVER IS GREATER. SHELVING SHALL BE AT LEAST 18 INCHES DEEP AND START A MINIMUM SIX INCHES OFF THE FLOOR SURFACE. 39. SHELVING OVER WET AREAS (SINKS, MOP SINKS ETC.) AND FOOD PREP SURFACES WILL BE METAL.

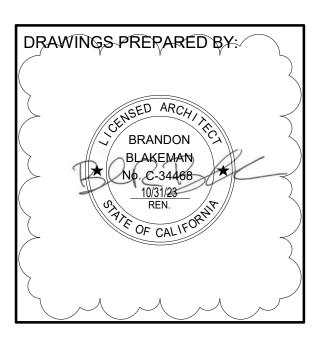
40. ALL SEAMS, GAPS, OPENINGS TO BE PROPERLY SEALED.



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GENERAL NOTES

WALL AND CEILING MATERIALS SHALL BE CLASSIFIED IN ACCORDANCE WITH ASTM E 84 OR UL 723.

ALL FOOD-RELATED AND UTENSIL-RELATED EQUIPMENT SHALL MEET OR BE EQUIVALENT TO SANITATION STANDARDS ESTABLISHED BY AN AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI) ACCREDITED PROGRAM.

EXISTING GREASE TRAP WILL BE CLEANED ONCE A MONTH BY A SPECIALIZED COMPANY

EXISTING COMMUNAL RESTROOMS SERVES EMPLOYEES AND CONSUMERS.

NOTE: EXIT SIGNS SHALL BE INTERNALLY OR EXTERNALLY ILLUMINATED AT ALL TIMES AND SHALL BE CONNECTED TO AN EMERGENCY POWER SYSTEM (BATTERIES, UNIT EQUIPMENT OR AN ON-SITE GENERATOR) THAT WILL AUTOMATICALLY ILLUMINATE THE EXIT SIGNS FOR A DURATION OF NOT LESS THAN 90 MINUTES.

DOOR WILL MAINTAIN 'UNLOCK' POSITION DURING BUSINESS HOURS

ACCESS ONLY FOR EMPLOYEES

ONE INCH AIR GAP TO FLOOR SINK FROM INDIRECT DISCHARGE OF 3 COMP SINK, PREP SINK AND WATER HEATER FRONT COUNTER (CASHIER AND DELIVERY AREA) COMPLIES WITH ADA STANDARDS

PARTITION WALL 2X6" HIGH MIN. ANCHORED TO WALL AND CEILING COVERED WITH FRP PANEL.

GENERAL CONSTRUCTION NOTES

- 1. ALL CONSTRUCTION AND MATERIALS SHALL BE AS SPECIFIED AND IN ACCORDANCE WITH ALL APPLICABLE CODES, ORDINANCES, LAWS PERMITS AND THE CONTRACT DOCUMENTS.
- 2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE ACCURATE PLACEMENT OF ALL NEW CONSTRUCTION ON THE SITE.
- 3. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND SITE CONDITIONS BEFORE STARTING WORK. SHOULD A DESCREPANCY APPEAR IN THE CONTRACT DOCUMENTS, OR BETWEEN THE CONTRACT DOCUMENTS AND EXISTING CONDITIONS, NOTIFY THE ARCHITECT AT ONCE FOR INSTRUCTIONHOW TO PROCEED.
- 4. SHOULD A CONFLICT OCCUR IN OR BETWEEN DRAWINGS AND SPECIFICATIONS, THE SPECIFICATIONS SHALL TAKE PRECEDENCE, UNLESS A WRITTEN DECISION FROM ARCHITECT H/BEEN OBTAINED WHICH DESCRIBES A CLARIFICATION OR ALTERNATE METHOD AND/OR MATERIALS.
- THE CONTRACTOR SHALL CONFINE HIS OPERATIONS ON THE SITE TO AREAS PERMITTED BY THOWNER.
 THE JOB SITE SHALL BE MAINTAINED IN A CLEAN, ORDERLY CONDITION FREE OF DEBRIS AND LITTER,
- AND SHALL NOT BE UNREASONABLY ENCUMBERED WITH ANY MATERIALS OR EQUIPMENT. EACH SUBCONTRACTOR IMMEDIATELY UPON COMPLETION OF EACH PHASE OF HIS WORK SHALL REMOVE ALL TRASH AND DEBRIS AS A RESULT OF THEIR OPERATION.
- 7. ALL MATERIAL STORED ON THE SITE SHALL BE PROPERLY STACKED AND PROTECTED TO PREVENT DAMAGE AND DETERIORATION. FAILURE TO PROTECT MATERIALS MAY BE FOR REJECTION OF WORK.
- 8. THE CONTRACTOR SHALL DO ALL CUTTING, FITTING, OR PATCHING OF HIS WORK THAT MAY BE REQUIRED TO MAKE ITS SEVERAL PARTS FIT TOGETHER PROPERLY AND SHALL NOT ENDANGER ANY OTHER WORK BY CUTTING OR OTHERWISE ALTERING THE TOTAL WORK OR AN PART OF IT. ALL PATCHING, REPAIRING, AND REPLACING OF MATERIALS AND SURFACES, CUT OR DAMAGED IN EXECUTION OF WORK, SHALL BE DONE WITH APPLICABLE MATERIALS SO THAT SURFACES REPLACED WILL, UPON COMPLETION, MATCH SURROUNDING SIMILIAR SURFACES.
- 9. NO PORTION OF THE WORK REQUIRING A SHOIP DRAWING OR SMAPLE SUBMISSION SHALL BE C OMMENCED UNTIL THE SUBMISSION HAS BEEN REVIEWED BY THE ARCHITECT. ALL SUCH PORTIONS OF THE WORK SHALL BE IN ACCORDANCE WITH CORRECTED SHOP DRAWINGS AND SAMPLES.
- 10. ALL DIMENSIONS SHALL TAKE PRECEDENCE OVER SCALE.
- 11. NOTICE TO THE CONTRACTOR / BUILDER / INSTALLER / SUB-CONTRACTOR: BY USING THESE PERMITTED CONSTRUCTION DRAWINGS FOR CONSTRUCTION INSTALLATION OF THE WORK SPECIFIED HEREIN, YOU ACKNOWLEDGE AND ARE AWARE OF, THE REQUIREMENTS CONTAINED IN THE STATEMENT OF SPECIAL INSPECTIONS, YOU AGREE TO COMPLY WITH THE REQUIREMENTS OF THE CITY OF SAN DIEGO FOR SPECIAL INSPECTIONS, STURCTURAL OBSERVATIONS, CONSTRUCTION MATERIAL TESTING AND OFF=SITE FABRICATION OF BUILDING COMPONENTS, CONTAINED IN THE STATEMENT OF SPECIAL INSPECTIONS AND, AS REQUIRED BY THE CALIFORNIA CONSTRUCTION CODES.
- 12. NO HAZARDOUS MATERIALS WILL BE STORED AND/OR USED WITHIN THE BUILDING WHICH EXCEED THE QUANTITIES LISTED IN IBC TABLES 307.1(1) AND 307.1(2).
- 13. ALL WORK SHALL CONFORM TO TITLE 24, CALIFORNIA CODES OF REGULATIONS (CCR).
- 14. TITLE 24 PARTS 1-5 SHALL BE KEPT ON SITE DURING CONSTRUCTION.
- 15. PROVIDE BUILDING ADDRESS NUMBERS VISIBLE AND LEGIBLE FROM THE STREET OR ROAD FRONTING THE PROPERTY PER FHPS POLICY P-00-6(UFC901.4)

FIELD CONSTRUCTION NOTES

- 1. ROUGH PLUMBING INSPECTIONS TO BE CALLED OUT FOR PRIOR TO POURING CONCRETE. CALL FOR INSPECTION TO BE MADE 3.5 WORKING DAYS PRIOR TO REQUESTED DATE.
- 2. PRELIMINARY CONSTRUCTION INPSECTION TO BE CALLED FOR WHEN CONSTRUCTION IS APPROXIMATELY 75% TO 80% COMPLETED, WITH PLUMBING, ROUGH VENITLATION, AND ROUGH EQUIPMENT INSTALLED. CALL FOR INSPECTION TO BE MADE 3-5 WORKING DAYS IN ADVANCE. PRELIMINARY INSPECTION TO BE SCHEDULED FOR NO LESS THAN 2 WEEKS PRIOR TO THE PROPOSED HAPPENINGS OF THE FOOD ESTABLISHMENT.
- 3. CALL FOR FINAL INSPECTION UPON COMPLETION OF ALL CONSTRUCTION INCLUDING ALL FINISH WORK. FINAL INSPECTION TO BE PASSED BEFORE ISSUANCE OF A HEALTH PERMIT. CALL FOR INSPECTION TO BE MADE NO LESS THAN 3.5 WORKING DAYS PRIOR TO THE PROPOSED OPENING OF THE FOOD ESTABLISHMENT. FINAL CONSTRUCTION MUST BE APPROVED PRIOR TO OPENING FOR BUSINESS OR USE OR REMODELED AREAS.

FIRE DEPARTMENT NOTES:

NEW AND EXISTING BUILDINGS SHALL HAVE APPROVED ADDRESS NUMBERS, BUILDING NUMBERS OR APPROVED BUILDING IDENTIFICATION PLACED IN A POSITION THAT IS PLAINLY LEGIBLE AND VISIBLE FROM THE STREET OR ROAD FRONTING THE PROPERTY. THESE NUMBERS SHALL CONSTRAST IN COLOR TO BACKGROUND. NUMBERS SHALL BE A MINIMUM OF 4" HIGH WITH MINIMUM STROKE WIDTH OF 1/2 INCH. CFC SECTION 505.1.

WHERE ACCESS TO OR WITHIN A STRUCTURE OR AN AREA IS RESTRICTED BECAUSE OF SECURED OPENINGS OR WHERE IMMEDIATE ACCESS IS NECESSARY FOR LIFE-SAVING OR FIRE-FIGHTING PURPOSES, THE FIRE CODE OFFICIAL IS AUTHORIZED TO REQUIRE A KEY BOX TO BE INSTALLED IN AN APPROVED LOCATION. THE KEY BOX SHALL BE OF AN APPROVED TYPE AND SHALL CONTAIN KEY(S) TO GAIN NECESSARY ACCESS AS REQUIRED BY THE FIRE CODE OFFICIAL. CFC SECTION 503.6

WHEN SPRINKLERS ARE REQUIRED SUBMIT FIRE SPRINKLER TENANT IMPROVEMENT PLANS TO FIRE DEPARTMENT FOR APPROVAL PRIOR TO INSTALLATION. CFC SECTION 901.4

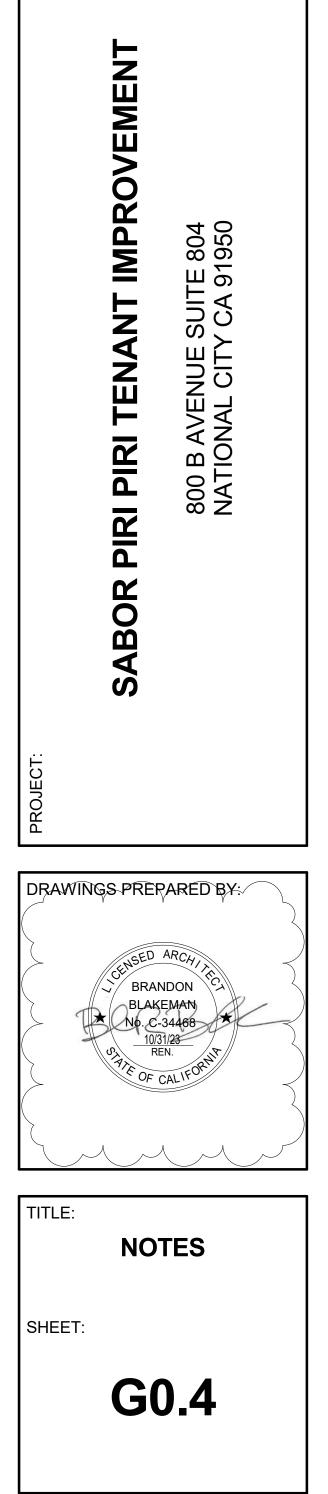
PORTABLE FIRE EXTINGUISHER(S) SHALL BE INSTALLED AND MAINTAINED IN ACCORDANCE WITH CFC 906, TABLE 906.3(1) AND CHAPTER 3, TITLE 19 CCR

THIS PROJECT WILL BE IN COMPLIANCE WITH THE CURRENT EDITIONS OF NFPA, CFC, TITLE 19 AND LOCAL CITY OF NATIONAL CITY MUNICIPAL CODES.

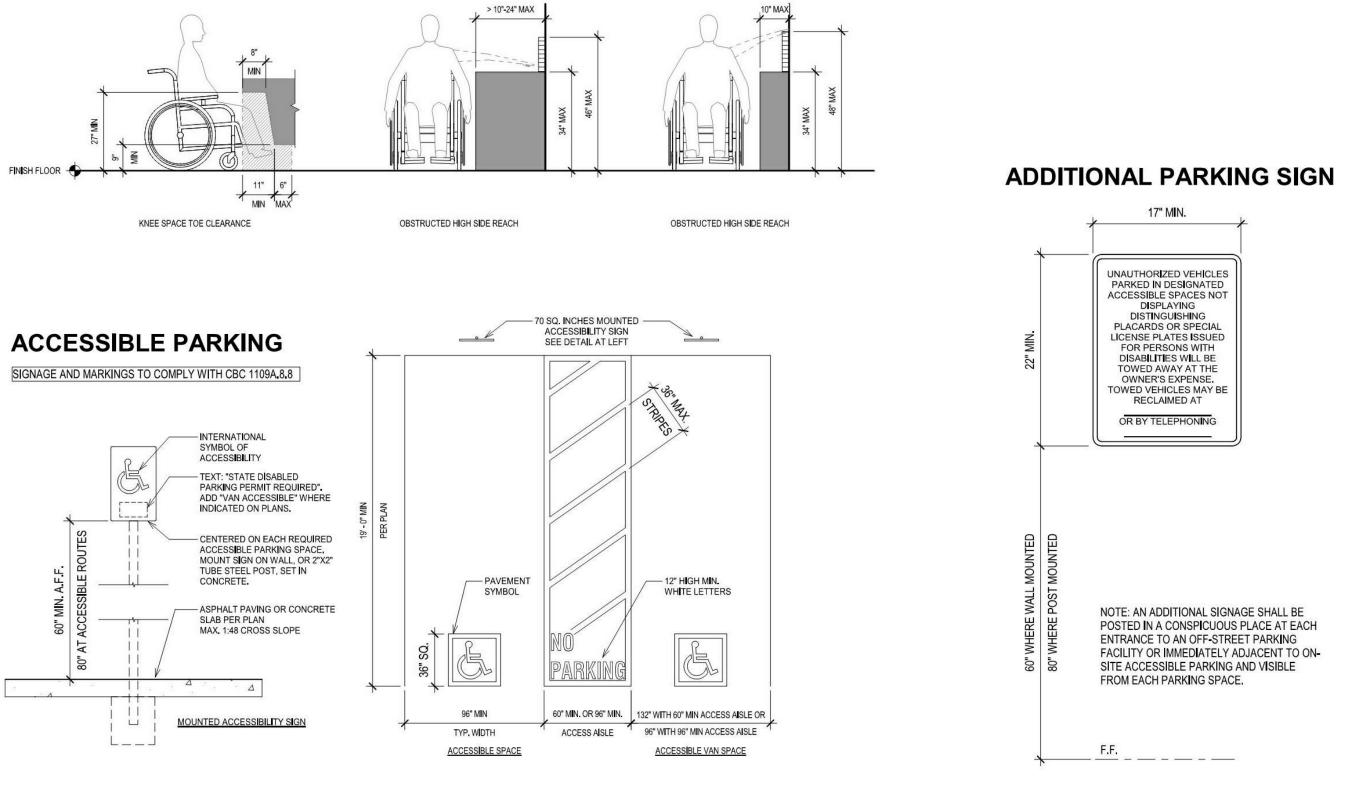
REQUESTS FOR INSPECTIONS SHALL BE MADE 48 HOURS IN ADVANCE. INSPECTIONS SHALL BE MADE ONCE WORK IS COMPLETE, UTILIZING APPROVED AND STAMED PLANS. CONTRACTOR SHALL BE REQUIRED TO HAVE THE APPROVED PLANS ON SITE PER CODE.



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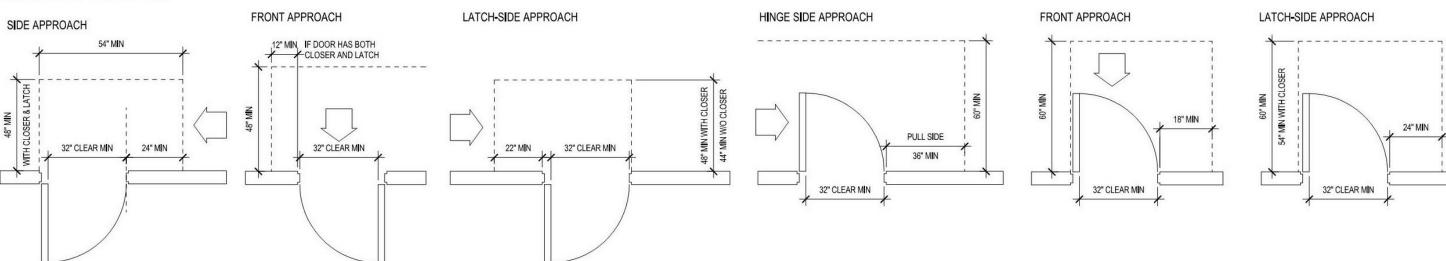


ACCESSIBLE REACH RANGE

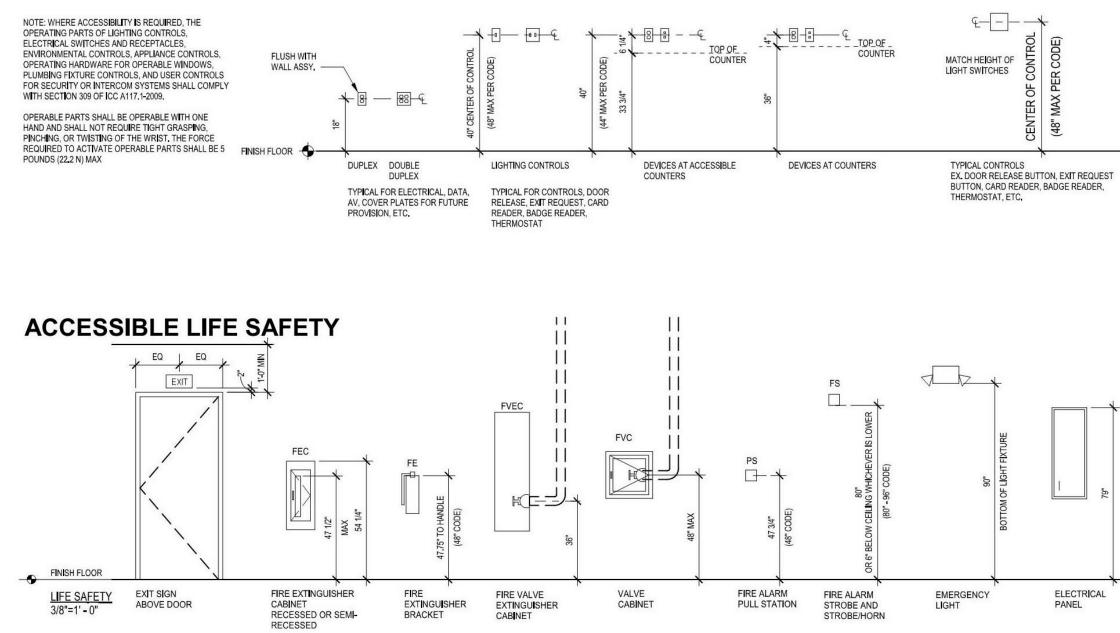


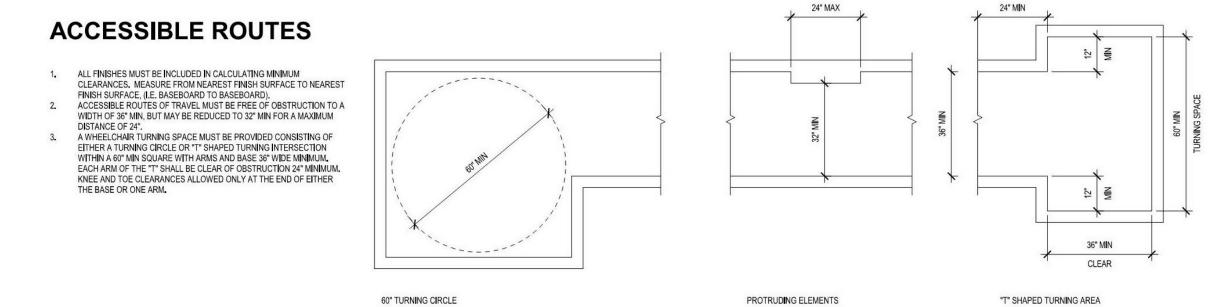
ACCESSIBLE DOORS AND GATES

- 1. MAXIMUM FORCE FOR PUSHING OR PULLING OPEN AN EXTERIOR OR INTERIOR DOOR SHALL NOT EXCEED 5
- INTERIOR DOOR SHALL NOT EXCEED 5 POUNDS
 2. OPERABLE PARTS OF DOOR HARDWARE TO BE CENTERED BETWEEN 34" AND 44" ABOVE THE FLOOR
 3. EGRESS DOORS SHALL BE READILY OPENABLE FROM THE EGRESS SIDE WITHOUT THE USE OF A KEY OR SPECIAL KNOWLEDGE OR EFFORT.



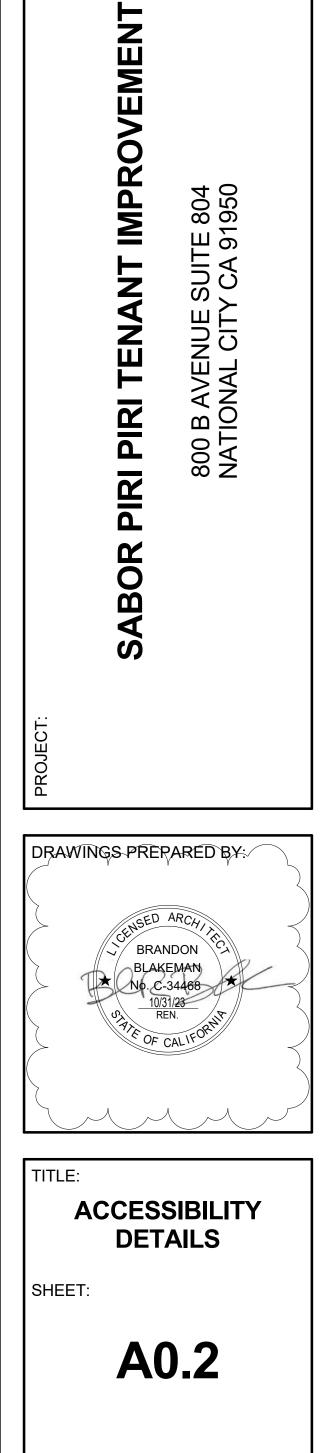
ACCESSIBLE ELECTRICAL FIXTURES

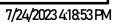






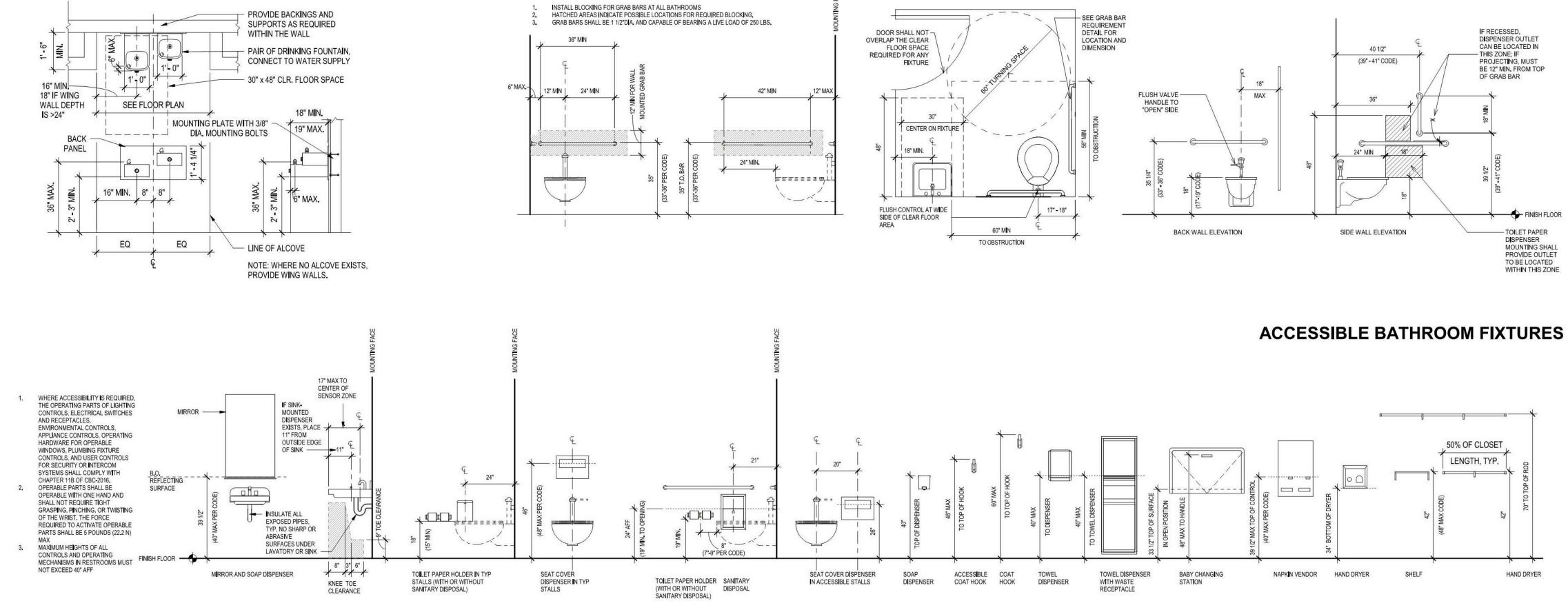
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"T" SHAPED TURNING AREA

ACCESSIBLE DRINKING FOUNTAIN





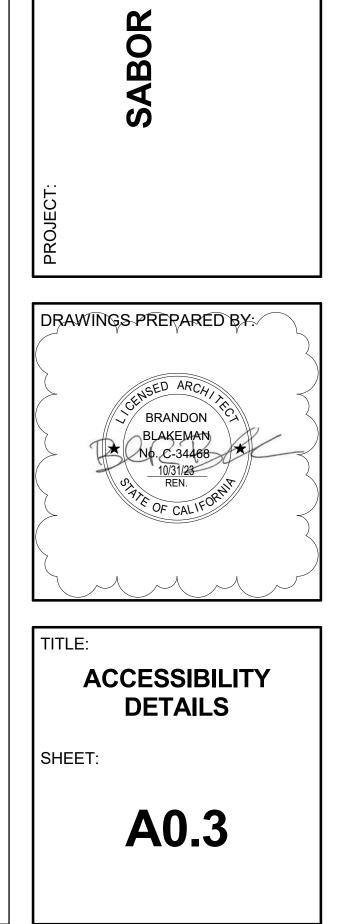
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/ENUE SUITE 804 AL CITY CA 91950 800 B AVE NATIONAI

FENANT IMPROVEMENT

PIRI PIRI

ACCESSIBLE PUBLIC BATHROOMS



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TAG & SECTION	DESCRIPTION LAYERS AND NOTES	AVAILIBLE	ACOUSTIC RATINGS	THERMAL RATING	TAG & SECTION	DESCRIPTION LAYERS AND NOTES	AVAILIBLE	ACOUSTIC RATINGS	THERMAL RATING	TAG & SECTION	DESCRIPTION LAYERS AND NOTES	AVAILIBLE	ACOUSTIC RATINGS	THERMAL RATING
W60	WOOD RAINSCREEN - 2X6 WOOD FRAMING [0-HR]	NOT RATED TYPE VB	<u>STC: 50</u>	<u>U-0.069</u>	W40	STUCCO - 2X6 WOOD FRAMING - SCC/GWB [0-HR]	NOT RATED VB	STC: N/A	<u>U-0.069</u>	W10-6	CONCRETE WALL 6" - STANDARD	<u>3-HR</u> TYPE IA		<u>U-0.74</u>
	WOOD SIDING FOR RAIN SCREEN 7/8" HAT CHANNEL METAL FRAMING - PT BLACK WRB - BLACK UV RESISTANT 5/8" TYPE 'X' GLASS MAT FACED SHEATHING 2X6 WOOD FRAMING W/ R-19 BATT INSULATION 5/8" TYPE 'X' GYP BOARD		CALIFORNIA OFFICE OF NOISE CONTROL 1.2.1.2.2.2	APPENDIX JA 4: TABLE 4.3.1: CELL A6 SEE MECH		STUCCO ASSEMBLY 		TEST SOURCES	APPENDIX JA 4: TABLE 4.3.1: CELL A6 SEE MECH	NI. EXT	STRUCT. CONCRETE NOTES: 1. CONTROL JOINTS, FORM TIE HOLES PER DRAWINGS WHEN INDICATED. 2. WP AND DRAINAGE MAT/COLLECTION AT RETAINING CONDITIONS 3. SEALER/COATINGS PER SPECIFICATIONS 4. THICKNESS PER STRUCTURAL		TEST SOURCE	APPENDIX JA 4: TABLE 4.3.6: CELL F3
	NOTES: 1. STUD SPACING PER STRUCT. 2. ADDITIONAL PRESSURE TREATED 2X2 PAINTED BLACK BETWEEN HAT CHANNEL AND WRB AT LEVEL T6 WHERE SINGLE PLY ROOFING IS RUNNING UP FACE OF WALL.			SHEETS		NOTES: 1. USE MOISTURE RESISTANT GYPSUM WHERE REQUIRED PER SPECIFICATIONS. 2. STUD SPACING PER STRUCT. 3. SEE ELEVATIONS AND ENLARGED ELEVATIONS FOR STUCCO FINISH TYPES. 4. STUCCO ASSEMBLY TO BE MIN 7/8" EXCLUSIVE OF TEXTURE PER TABLE 1405.2			SHEETS	W10-6A INT. EXT	ARCH. FINISH QUALITY PER SPECIFICATIONS	<u>3-HR</u> <u>TYPE IA</u>	TEST SOURCE	<u>U-0.74</u>
W61	WOOD RAINSCREEN - 2X6 WOOD FRAMING [1-HR]	<u>1-HR VB</u>	<u>STC: 50</u>	<u>U-0.069</u>	W40.6	STUCCO - 2X6 WOOD FRAMING - SCC/WD [0-HR]	NOT RATED VB	STC: N/A	<u>U-0.069</u>		NOTES: 1. CONTROL JOINTS, FORM TIE HOLES PER DRAWINGS 2. SEALED/COATINGS PER SPECIFICATIONS 3. THICKNESS PER STRUCTURAL	CBC 721.1(2) ITEM 4-1.1		APPENDIX JA 4 TABLE 4.3.6: CELL F3
		1 2 2	TEST SOURCES	<u>5</u>		STUCCO ASSEMBLY DRAINAGE LAYER & WRB SYSTEM SHEATHING PER STRUCT.		TEST SOURCES		W10-8	CONCRETE WALL 8" - STANDARD	<u>3-HR</u> <u>TYPE IA</u>		<u>U-0.74</u>
	WRB - BLACK UV RESISTANT 	UL U305	CAL OFFICE OF NOISE CONTROL 1.2.2.1.5.7	APPENDIX JA 4: TABLE 4.3.1: CELL A6 SEE MECH SHEETS		2X6 WD FR PER STRUCT. SHEATHING PER STRUCT. FAT CHANNEL METAL FRAMING - PT BLACK WOOD SIDING FOR RAIN SCREEN NOTES: 1. USE MOISTURE RESISTANT GYPSUM WHERE REQUIRED PER SPECIFICATIONS. 2. STUD SPACING PER STRUCT. 3. SEE ELEVATIONS AND ENLARGED ELEVATIONS FOR STUCCO FINISH TYPES. 4. STUCCO ASSEMBLY TO BE MIN 7/8" EXCLUSIVE OF TEXTURE PER TABLE 1405.2			APPENDIX JA 4: TABLE 4,3,1: CELL A6 SEE MECH SHEETS	W10-8A		CBC 721.1(2) ITEM 4-1.1 <u>3-HR</u>	TEST SOURCE	APPENDIX JA 4 TABLE 4.3.6: CELL F3
W62	WOOD RAINSCREEN - 2X6 WOOD FRAMING [2-HR]	<u>2-HR VB</u>	<u>STC: 50</u>	<u>U-0.069</u>	W41	STUCCO - 2X6 WOOD FRAMING - SCC/GWB [1-HR]	<u>1-HR</u> TYPE III A. VB	<u>STC: 50</u>	<u>U-0.069</u>	INT. EXT	SAME AS ABOVE WITH EXPOSED FACES TO BE ARCH. FINISH QUALITY PER SPECIFICATIONS NOTES: 1. CONTROL JOINTS, FORM TIE HOLES PER DRAWINGS	<u>TYPE IA</u>	TEST SOURCE	
		UL U371	TEST SOURCES	APPENDIX JA 4: TABLE 4.3.1:		——STUCCO ASSEMBLY ——DRAINAGE LAYER & WRB SYSTEM ——5/8" TYPE 'X' GLASS MAT FACED SHEATHING ——SHEATHING PER STRUCT.	UL U305	TEST SOURCES	APPENDIX JA 4: TABLE 4.3.1:	W10-12	2. SEALED/COATINGS PER SPECIFICATIONS 3. THICKNESS PER STRUCTURAL CONCRETE WALL 12" - STANDARD	<u>3-HR</u> TYPE IA		TABLE 4.3.6: CELL F3
	 2X6 WD FR PER STRUCT. W/ R-21 MINERAL WOOL INSUL. (2 LAYERS) (5/8") TYPE 'X' GYPSUM BOARD NOTES: STUD SPACING AND SHEARWALLS PER STRUCT. ADDITIONAL PRESSURE TREATED 2X2 PAINTED BLACK BETWEEN HAT CHANNEL AND WRB AT LEVEL T6 WHERE SINGLE PLY ROOFING IS RUNNING UP FACE OF WALL. 		NOISE CONTROL 1.2.1.2.2.2	CELL A6 SEE MECH SHEETS		 2X6 WD FR PER STRUCT. W/ HIGH DENS. R-21 BATT INSUL. 5/8" TYPE 'X' GYP BOARD NOTES: USE MOISTURE RESISTANT GYPSUM WHERE REQUIRED PER SPECIFICATIONS. STUD SPACING PER STRUCT. SEE ELEVATIONS AND ENLARGED ELEVATIONS FOR STUCCO FINISH TYPES. STUCCO ASSEMBLY TO BE MIN 7/8" EXCLUSIVE OF TEXTURE PER TABLE 1405.2 		NOISE CONTROL 1.2.1.2.2.2	CELL A6 SEE MECH SHEETS		STRUCT. CONCRETE NOTES: 1. CONTROL JOINTS, FORM TIE HOLES PER DRAWINGS WHEN INDICATED. 2. WP AND DRAINAGE MAT/COLLECTION AT RETAINING CONDITIONS 3. SEALER/COATINGS PER SPECIFICATIONS 4. THICKNESS PER STRUCTURAL		TEST SOURCE	APPENDIX JA 4 TABLE 4,3.6: CELL F3
W71	EXT GYP 2X6 WOOD FRAMING [1-HR]	<u>1-HR</u> TYPE IIIA	<u>STC: 50</u>	<u>U-0.069</u>	W41.4U	STUCCO - 2X4 WOOD FRAMING - SCC/SCC - UNINSULATED ——STUCCO ASSEMBLY	<u>1-HR</u> TYPE IIIA, VB	<u>STC: 50</u>	<u>U-0.069</u>	W10-12A	CONCRETE WALL 12" - ARCHITECTURAL SAME AS ABOVE WITH EXPOSED FACES TO BE ARCH. FINISH QUALITY PER SPECIFICATIONS	<u>3-HR</u> <u>TYPE IA</u>	TEST SOURCE	<u>U-0.74</u>
	 (5/8") TYPE 'X' EXTERIOR GYPSUM BOARD SHEATHING PER STRUCT. 2X6 WD FR PER STRUCT. W/ HIGH DENS. R-21 BATT INSUL. 1/2" RESILIENT CHANNEL METAL FRAMING 5/8" TYPE 'X' GYP BOARD 	UL U305	CAL OFFICE OF NOISE CONTROL 1.2.2.1.5.7	APPENDIX JA 4: TABLE 4.3.1: CELL A6		DRAINAGE LAYER & WRB SYSTEM ————————————————————————————————————	UL U305	TEST SOURCES CALIFORNIA OFFICE OF NOISE CONTROL	APPENDIX JA 4: TABLE 4,3,1: CELL A6	W10-16	NOTES: 1. CONTROL JOINTS, FORM THE HOLES PER DRAWINGS 2. SEALED/COATINGS PER SPECIFICATIONS 3. THICKNESS PER STRUCTURAL CONCRETE WALL 16" - STANDARD	CBC 721.1(2) ITEM 4-1.1 <u>3-HR</u>		APPENDIX JA 4 TABLE 4.3.6: CELL F3 U-0.74
	NOTES: 1. STUD SPACING PER STRUCT. 2. SHEATHING REQ. BOTH SIDES TO MAINTAIN ACOUSTIC RATING			SEE MECH SHEETS		STUCCO ASSEMBLY NOTES: 1. USE MOISTURE RESISTANT GYPSUM WHERE REQUIRED PER SPECIFICATIONS. 2. STUD SPACING PER STRUCT. 3. SEE ELEVATIONS AND ENLARGED ELEVATIONS FOR STUCCO FINISH TYPES. 4. STUCCO ASSEMBLY TO BE MIN 7/8" EXCLUSIVE OF TEXTURE PER TABLE 1405.2		1.2.1.2.2.2	SEE MECH SHEETS	NT. EXT		<u>TYPE IA</u>	TEST SOURCE	08
W72		<u>2-HR</u> <u>TYPE IIIA</u>	<u>STC: 50</u>	<u>U-0.069</u>		STUCCO - 2X6 WOOD FRAMING - SCC/GWB [2-HR]	<u>2-HR</u> TYPE III A, VB	<u>STC: 50</u>	<u>U-0.069</u>		4. THICKNESS PER STRUCTURAL			
		UL U371	TEST SOURCES	APPENDIX JA 4: TABLE 4.3.1: CELL A6		DRAINAGE LAYER & WRB SYSTEM 5/8" TYPE 'X' GLASS MAT FACED SHEATHING 2X6 WD FR PER STRUCT. W/ R-21 MINERAL WOOL INSUL. (2 LAYERS) (5/8") TYPE 'X' GYPSUM BOARD	UL U371	CALIFORNIA OFFICE OF NOISE	APPENDIX JA 4: TABLE 4.3.1: CELL A6	W20-6	CMU 6" NOMINAL WALL - STACKED BOND	<u>2-HR</u> <u>TYPE IA</u>		
	(2 LAYERS) (5/8") TYPE 'X' GYPSUM BOARD NOTES: 1. STUD SPACING PER STRUCT. 2. W72* INDICATES USING 2X8 AND 2X 4 STUDS PER DETAILS		CONTROL 1.2.1.2.2.2	SEE MECH SHEETS	W42* - PF	 ROVIDE WRB SYSTEM AND EXTERIOR FINISH AT BOTH SIDES NOTES: USE MOISTURE RESISTANT GYPSUM WHERE REQUIRED PER SPECIFICATIONS. STUD SPACING PER STRUCT. SEE ELEVATIONS AND ENLARGED ELEVATIONS FOR STUCCO FINISH TYPES. STUCCO ASSEMBLY TO BE MIN 7/8" EXCLUSIVE OF TEXTURE PER TABLE 1405.2 		CONTROL 1.2.1.2.2.2	SEE MECH SHEETS		CMU 6" STACKED BOND NOTES: 1. SEALED/COATINGS PER SPECIFICATIONS 2. FULLY GROUTED PER SPECIFICATIONS AND STRUCTURAL 3. ALL JOINTS VISIBLE TO PUBLIC TO BE RAKED JOINTS	СВС 721.1(2) ПТЕМ 3.1	TEST SOURCES	NOT USED AS A PART OF ENVELOPE
					W42+	STUCCO - 2X6 WOOD FRAMING - SCC/GWB - GWB AMMR [+2-HR]	<u>2-HR</u> TYPE IIIA	<u>STC: 50</u>	<u>U-0,069</u>	W20-8	CMU 8" NOMINAL WALL - STACKED BOND	<u>2-HR</u> <u>TYPE IA</u>		<u>U-0.69</u>
							UL U371	CALIFORNIA OFFICE OF NOISE CONTROL 1.2.1.2.2.2	APPENDIX JA 4: TABLE 4.3.1: CELL A6 SEE MECH		CMU 8" STACKED BOND NOTES: 1. SEALED/COATINGS PER SPECIFICATIONS 2. WP AND DRAINAGE MAT/COLLECTION AT RETAINING CONDITIONS 3. FULLY GROUTED PER SPECIFICATIONS AND STRUCTURAL 4. ALL JOINTS VISIBLE TO PUBLIC TO BE RAKED JOINTS	СВС 721.1(2) ПТЕМ 3.1	TEST SOURCE	APPENDIX JA 4 TABLE 4,3.6: CELL F3
						NOTES: 1. USE MOISTURE RESISTANT GYPSUM WHERE REQUIRED PER SPECIFICATIONS. 2. STUD SPACING PER STRUCT. 3. SEE ELEVATIONS AND ENLARGED ELEVATIONS FOR STUCCO FINISH TYPES.			SHEETS	W20-8C	CMU 8" NOMINAL WALL - WITH TILE	<u>2-HR</u> <u>TYPE IA</u>		<u>U-0.69</u>
					W40-M	 STUCCO ASSEMBLY TO BE MIN 7/8" EXCLUSIVE OF TEXTURE PER TABLE 1405.2 WHEN AGAINST SHAFT REMOVE (2 LAYERS) 15.9 MM TYPE 'X' GYPSUM BOARD STUCCO - 6" METAL FRAMING 	NOT RATED	<u>STC: 50</u>	<u>U-0.069</u>			СВС 721.1(2) ПТЕМ 3.1	TEST SOURCE	APPENDIX JA 4 TABLE 4.3.5: CELL A10

WRB

NOTES:

W40-MU

-STUCCO ASSEMBLY

-STUCCO ASSEMBLY

-6" METAL FRAMING

-5/8" TYPE 'X' GYP BOARD

- DRAINABLE RIGID INSULATION (R-10 MIN)

--6" METAL FRAMING W/ R-21 FIBERGLASS BATT --5/8" TYPE 'X' GYP BOARD

 1. USE MOISTURE RESISTANT GYPSUM WHERE REQUIRED PER SPECIFICATIONS
 2. STUD SPACING PER STRUCT. SEE ELEVATIONS AND ENLARGED ELEVATIONS FOR STUCCO FINISH TYPES,
 STUCCO ASSEMBLY TO BE MIN 7/8" EXCLUSIVE OF TEXTURE PER TABLE 1405.2

NOTES: 1. USE MOISTURE RESISTANT GYPSUM. 2. STUD SPACING PER STRUCT. 3. SEE ELEVATIONS AND ENLARGED ELEVATIONS FOR STUCCO FINISH TYPES.

STUCCO ASSEMBLY TO BE MIN 7/8" EXCLUSIVE OF TEXTURE PER TABLE 1405.2

- 5/8" GLASS MAT GYPSUM SHEATHING.

STUCCO - 6" METAL FRAMING UNINSULATED

-(2 LAYERS) (5/8") TYPE 'X' GYPSUM BOARD

-DRAINAGE LAYER & WRB SYSTEM

- CEMENT BOARD

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ASSEMBLIES GENERAL NOTES

- KITCHENETTES).
- WITH 1403.5 EXCEPTION 1.
- 4. ZIP CODE 91950 IS A CLIMATE ZONE 7. THEREFORE, CLASS | OR CLASS || VAPOR RETARDERS TO BE PROVIDED AT INTERIOR FACE SIDE OF FRAME WALLS PER CBC 1405.3.1. PAINT WITH A PERM RATING GREATER THAN 0.1 AND LESS THAN OR EQUAL TO 1.0. SEE 099000 PAINTING AND COATING SPECIFICATION. 5. WRB AND DRAINAGE PLANE TO MEET NFPA 285 PER CBC 1403.5
- 6. PROVIDE FIREBLOCKING PER CBC 718.2. 7. WOOD ASSEMBLIES IN THE TYPE IIIA BUILDING. TO HAVE A MAXIMUM CONCEALED FREE AIR AND/OR INSULATION VOLUME OF 160ft³. USE FIREBLOCKING PER CBC 718.2 AND DRAFTSTOPPING PER CBC 718.3 AND CBC 718.4 TO SUBDIVIDE VOLUMES GREATER THAN 160ft³. A. IN TRUSS FLOOR AND ROOF ASSEMBLY AREAS FIREBLOCKING AND DRAFTSTOPPING TO BE CREATED WITH WITH SOLID MATERIALS, NOT MINERAL WOOL OR CELLULOSE DUE TO INSUFFICIENT MEANS TO BE SECURELY RETAINED IN PLACE (CBC 718.2.1.7). B. WHERE WOOD TRUSSES ARE NOT USED, FILLING JOIST/BAY CAVITIES WITH MINERAL WOOL PER CBC
- 718.2.1 AND CBC 718.3.1 IS ACCEPTED.
- SURFACE OF WALL AND ALIGNING WALLS. 10. LOW SLOPE SINGLE PLY TO HAVE MIN SRI VALUE OF 75.

NOTES: 1. SEALED/COATINGS PER SPECIFICATIONS 2. FULLY GROUTED PER SPECIFICATIONS AND STRUCTURAL 3. ALL JOINTS VISIBLE TO PUBLIC TO BE RAKED JOINTS

TEST SOURCES

NOT RATED

CALIFORNIA OFFICE OF NOISE CONTROL 1.2.1.2.2.2 CALIFORNIA APPENDIX JA 4: TABLE 4.3.1: CELL A6 CELL A6 CELL A6

STC: 50 U-0.069

CALIFORNIA OFFICE OF NOISE CONTROL 1.2.1.2.2.2 SEE MECH

SEE MECH SHEETS

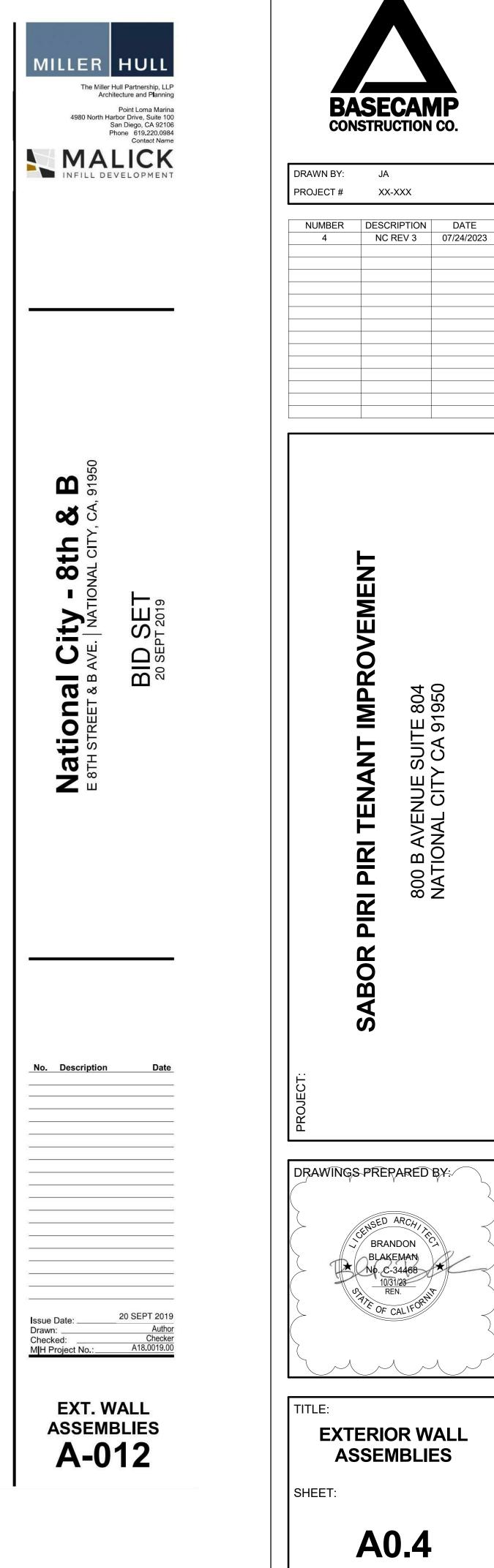
TEST SOURCES

SEE MECH SHEETS

1. SEE BUILDING OCCUPANCY/EGRESS PLANS AND FLOOR PLANS FOR WALL FIRE RATING LOCATIONS. 2. USE MOISTURE RESISTANT GYPSUM ON ALL WALLS AND CEILINGS WHERE REQUIRED PER SPECIFICATIONS. (AREAS REQUIRED BUT NOT LIMITED TO: RESTROOMS, CUSTODIAL CLOSETS, BEHIND

3. ALL EXTERIOR FINISHES TO MEET THICKNESSES OF TABLE 1405.2. ALUMINUM PREFINISHED FLASHING SHOWN IN DETAILS TO MEET THICKNESS OF ALUMINUM SIDING IN TABLE 1405.2 TO ENSURE COMPLIANCE

- 8. 'SHEATHING PER STRUCT' IS SHOWN ONLY ON ONE SIDE OF THE ASSEMBLIES. SEE STRUCT FOR SHEAR WALL SPECIFICATIONS AND LOCATIONS WITH BOTH SIDES OF ASSEMBLY SHEATHED. WHERE SHEATHING IS SHOWN FOR PARITAL WALLS. PROVIDE AN EVEN FINISHED SURFACE BY ADDING SHEATHING TO ENTIRE
- 9. SOME INTERIOR PARTITIONS INCLUDE PLYWOOD SHEAR LAYERS, REFER TO STRUCTURAL FOR LOCATIONS 11. ALL SINGLE PLY ROOFING TO HAVE A MIN. 1/4" PER FOOT SLOPE TO DRAIN IN ALL CONDITIONS.



TAG & SECTION	DESCRIPTION LAYERS AND NOTES	AVAILIBLE FIRE RATING	ACOUSTIC RATINGS	<u>Thermal</u> <u>Rating</u>	TAG & Section	DESCRIPTION LAYERS AND NOTES	AVAILIBLE FIRE RATING	ACOUSTIC RATINGS	<u>Thermal</u> <u>Rating</u>	TAG & SECTION	DESCRIPTION LAYERS AND NOTES	AVAILIBLE FIRE RATING	ACOUSTIC RATINGS	THERMA RATING
A	2X4 WOOD STUD WALL	NOT RATED	<u>STC: 36</u>		A1	2X4 WOOD STUD PARTITION WALL - NOT USED	<u>1-HR</u>	<u>STC: 57</u>		A2	2X4 WOOD STUD PARTITION WALL - NOT USED	<u>2-HR</u>	<u>STC: 57</u>	
	 (1) LAYER 5/8" GWB O/ 2X4 WOOD STUDS W/ ACOUSTICAL INSULATION O/ (1) LAYER 5/8" GWB 		TEST SOURCES CALIFORNIA OFFICE OF NOISE CONTROL 1.2.1.1.5.10					CALIFORNIA OFFICE OF NOISE CONTROL 1.2.4.1.5.4				UL U301	CALIFORNIA OFFICE OF NOISE CONTROL 1.2.4.1.5.4	2
	NOTES: 1. STUD SPACING PER STRUCT. 2. SHEAR/SHEATHING PER STRUCTURAL					NOTES: 1. STUD SPACING PER STRUCT. 2. SHEAR/SHEATHING PER STRUCTURAL				M	NOTES: 1. STUD SPACING PER STRUCT. 2. SHEAR/SHEATHING PER STRUCTURAL			
A3	2X4 WOOD STUD FURRING WALL	NOT RATED	<u>STC: 28</u>		В	2X6 WOOD STUD WALL	NOT RATED	<u>STC: 36</u>		C0	2X4 WOOD STUD PARTITION WALL	NOT RATED TYPE IIIA	<u>STC: 63</u>	
	(1) LAYER 5/8" GWB O/ 2X4 WOOD STUD FRAMING		TEST SOURCES CALIFORNIA OFFICE OF NOISE CONTROL			(1) LAYER 5/8" GWB O/ 2X6 WOOD STUDS W/ ACOUSTICAL INSULATION O/ (1) LAYER 5/8" GWB		TEST SOURCES CALIFORNIA OFFICE OF NOISE CONTROL		SHAFT WALL SEE PLANS		UL U305	TEST SOURCES CALIFORNIA OFFICE OF NOISE CONTROL 1.2.4.1.5.3	2
	NOTES: 1. STUD SPACING PER STRUCT. 2. SHEAR/SHEATHING PER STRUCTURAL					NOTES: 1. STUD SPACING PER STRUCT. 2. SHEAR/SHEATHING PER STRUCTURAL					NOTES: 1. STUD SPACING PER STRUCT. 2. SHEAR/SHEATHING PER STRUCTURAL			
C1	2X4 WOOD STUD PARTITION WALL	<u>1-HR</u>	<u>STC: 63</u>		C2	2X4 WOOD STUD PARTITION WALL	<u>2-HR</u>	<u>STC: 63</u>		D	2X6 WOOD STUD FURRING WALL	NOT RATED	<u>STC: 28</u>	
	? SHEATHING PER STRUCT. 2X4 WOOD STUDS W/ R-11 INSULATION 1" AIR SPACE 2X4 WOOD STUDS (OFFSET) W/ R-11 INSULATION SHEATHING PER STRUCT.	UL U305	CALIFORNIA OFFICE OF NOISE CONTROL 1.2.4.1.5.4			(2) LAYER 5/8" TYPE 'X' GWP O/ 2X4 WOOD STUDS W/ R-11 INSULATION O/ 1" AIR GAP O" 2X4 WOOD STUDS (OFFSET) W/ R-11 INSULATION O/ (2) LAYER 5/8" TYPE 'X' GWP O/	UL U301	CALIFORNIA OFFICE OF NOISE CONTROL 1.2.4.1.5.3		-	(1) LAYER 5/8" GWB O/ 2X6 WOOD STUD FRAMING		TEST SOURCES CALIFORNIA OFFICE OF NOISE CONTROL	<u>Σ</u>
<u>XX</u>	NOTES: 1. STUD SPACING PER STRUCT. 2. SHEAR/SHEATHING PER STRUCTURAL					NOTES: 1. STUD SPACING PER STRUCT. 2. SHEAR/SHEATHING PER STRUCTURAL					NOTES: 1. STUD SPACING PER STRUCT. 2. SHEAR/SHEATHING PER STRUCTURAL			
E	<u>6" MTL. STUD WALL</u>	NOT RATED			F	<u>3 5/8" MTL, STUD WALL</u>	NOT RATED	<u>STC: 45</u>		G	<u>3 5/8" MTL, STUD WALL</u>	<u>1-HR</u>	<u>STC: 52</u>	<u>U-0.407</u>
	(1) LAYER 5/8" GWB O/ 6" MTL. STUDS W/ R-19 INSULATION O/ (1) LAYER 5/8" GWB		TEST SOURCES			(1) LAYER 5/8" GWB O/ 3 5/8" MTL. STUDS W/ R-13 INSULATION O/ (1) LAYER 5/8" GWB		CALIFORNIA OFFICE OF NOISE CONTROL 1.3.3.1.5.9			(2) LAYERS OF 5/8" GWB O/ 3 5/8" MTL. STUDS W/ R-13 INSULATION O/ (2) LAYERS OF 5/8" GWB O/		TEST SOURCES	2
\bigotimes	NOTES: 1. STUD SPACING PER STRUCT, 2. SHEAR/SHEATHING PER STRUCTURAL					NOTES: 1. STUD SPACING PER STRUCT. 2. SHEAR/SHEATHING PER STRUCTURAL					NOTES: 1. STUD SPACING PER STRUCT. 2. SHEAR/SHEATHING PER STRUCTURAL			
Н	3 5/8" MTL. STUD FURRING WALL	NOT RATED			i1-4	4" MTL CH STUD SHAFT WALL	<u>1-HR</u>			i1 -2. 5	2 1/2" MTL CH STUD SHAFT WALL	<u>2-HR</u>		<u>U-0.418</u>
	(1) LAYER 5/8" GWB 3 5/8" MTL. STUDS W/ R-13 INSULATION O/ NOTES: 1. STUD SPACING PER STRUCT.		TEST SOURCES		24" MAX. O.C.		UL U415	TEST SOURCES		HORIZONTA		UL U415 or U437	TEST SOURCES	2
	2. SHEAR/SHEATHING PER STRUCTURAL					2. SHEAR/SHEATHING PER STRUCTURAL				SECTION	2. SHEAR/SHEATHING PER STRUCTURAL 4" MTL CH STUD SHAFT WALL	<u>2-HR</u>		<u>U-0.41</u>
										24" MAX. O.C.	 (5/8") TYPE 'X' GYPSUM BOARD 2X4 WOOD FRAMING W/ R-13 BATT INSULATION (2) LAYERS 5/8" TYPE 'X' GWB O/ 2-1/2" MTL CH STUDS RUNNING HORIZ., FRICTION 		TEST SOURCES	
										HORIZONTA	1" GYPSUM BOARD SHAFT LINER			
										i2 - 4	4" MTL CH STUD SHAFT WALL	<u>2-HR</u>		<u>U-0.41</u>
										24" MAX O.C.		UL U415 or U437	TEST SOURCES	2
										HORIZONTA SECTION	NOTES: 1. STUD SPACING PER STRUCT. 2. SHEAR/SHEATHING PER STRUCTURAL			
										i2 - 6	6" MTL CH STUD SHAFT WALL	<u>2-HR</u>		<u>U-0.41</u>
										Z4" O.C. MAX. OC.	(2 LAYERS) (5/8") TYPE 'X' GYPSUM BOARD (6" MTL CH STUDS RUNNING HORIZ., FRICTION FITTED TO 'J' SHAPED RUNNERS O/ 1" GYPSUM BOARD SHAFT LINER	UL U415 or U437	TEST SOURCES	2

G.NRevit Pro 3/19/2019 SHEET INDEX

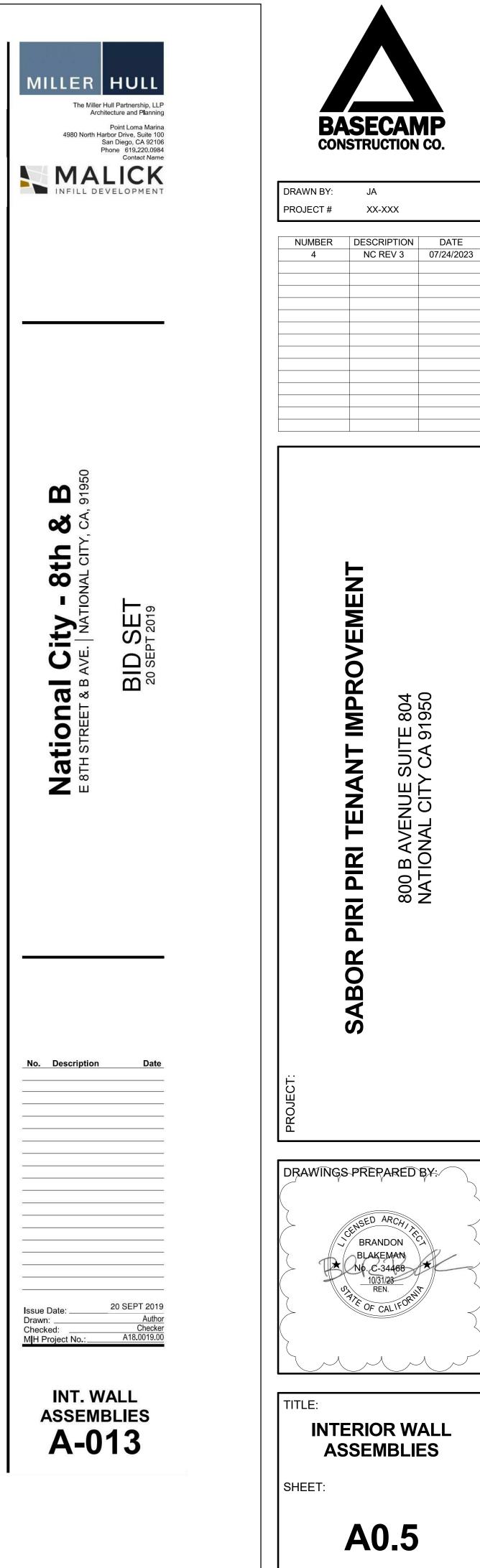
ASSEMBLIES GENERAL NOTES

- KITCHENETTES).
- WITH 1403.5 EXCEPTION 1.
- 4. ZIP CODE 91950 IS A CLIMATE ZONE 7. THEREFORE, CLASS I OR CLASS II VAPOR RETARDERS TO BE PROVIDED AT INTERIOR FACE SIDE OF FRAME WALLS PER CBC 1405.3.1. PAINT WITH A PERM RATING GREATER THAN 0.1 AND LESS THAN OR EQUAL TO 1.0. SEE 099000 PAINTING AND COATING SPECIFICATION. 5. WRB AND DRAINAGE PLANE TO MEET NFPA 285 PER CBC 1403.5 6. PROVIDE FIREBLOCKING PER CBC 718.2.
- 7. WOOD ASSEMBLIES IN THE TYPE IIIA BUILDING. TO HAVE A MAXIMUM CONCEALED FREE AIR AND/OR INSULATION VOLUME OF 160ft³. USE FIREBLOCKING PER CBC 718.2 AND DRAFTSTOPPING PER CBC 718.3 AND CBC 718.4 TO SUBDIVIDE VOLUMES GREATER THAN 160ft³. A. IN TRUSS FLOOR AND ROOF ASSEMBLY AREAS FIREBLOCKING AND DRAFTSTOPPING TO BE CREATED WITH WITH SOLID MATERIALS, NOT MINERAL WOOL OR CELLULOSE DUE TO INSUFFICIENT MEANS TO BE SECURELY RETAINED IN PLACE (CBC 718.2.1.7). B. WHERE WOOD TRUSSES ARE NOT USED, FILLING JOIST/BAY CAVITIES WITH MINERAL WOOL PER CBC
- 718.2.1 AND CBC 718.3.1 IS ACCEPTED.
- SURFACE OF WALL AND ALIGNING WALLS.
- 10, LOW SLOPE SINGLE PLY TO HAVE MIN SRI VALUE OF 75,

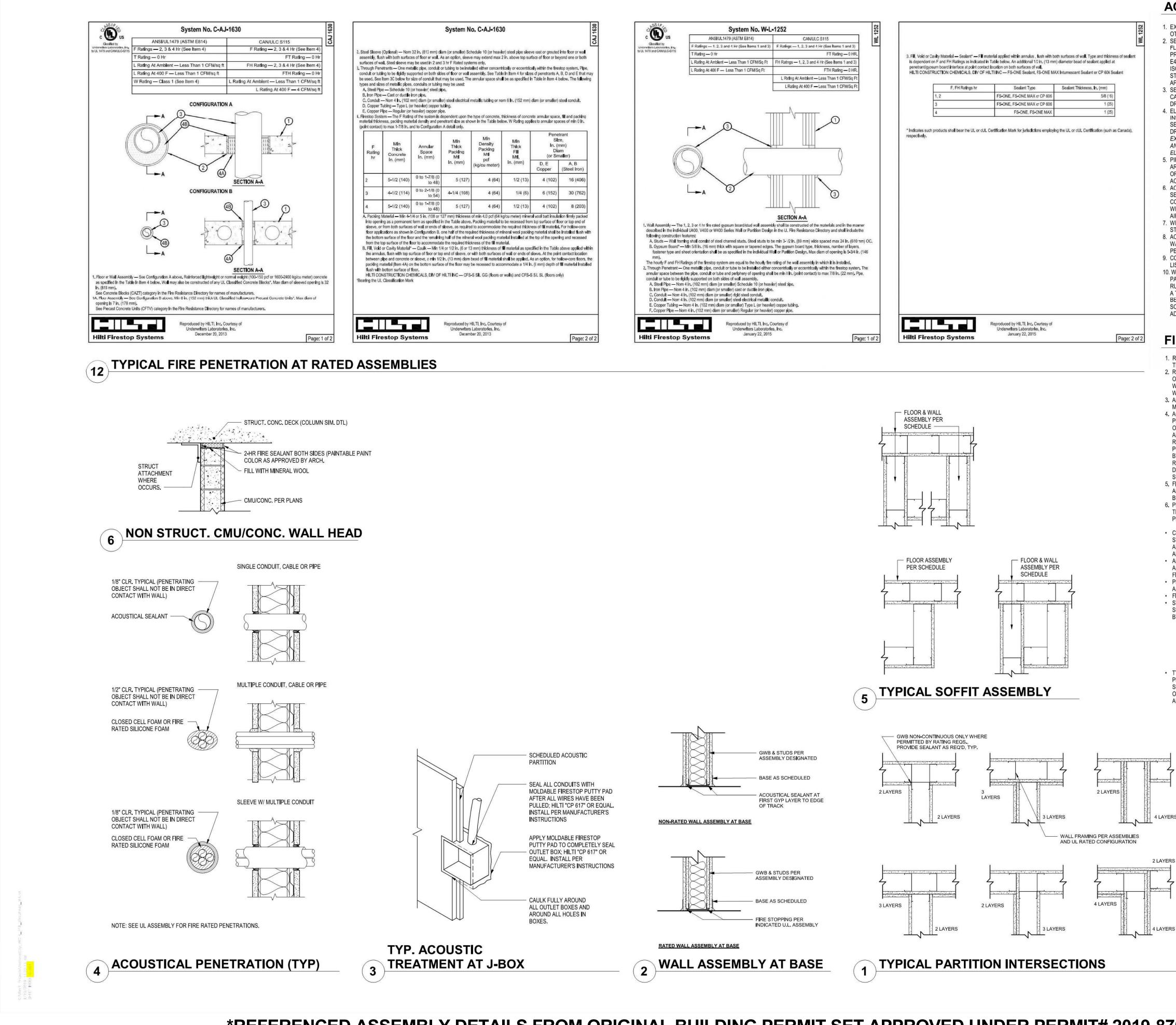
1. SEE BUILDING OCCUPANCY/EGRESS PLANS AND FLOOR PLANS FOR WALL FIRE RATING LOCATIONS. 2. USE MOISTURE RESISTANT GYPSUM ON ALL WALLS AND CEILINGS WHERE REQUIRED PER SPECIFICATIONS. (AREAS REQUIRED BUT NOT LIMITED TO: RESTROOMS, CUSTODIAL CLOSETS, BEHIND

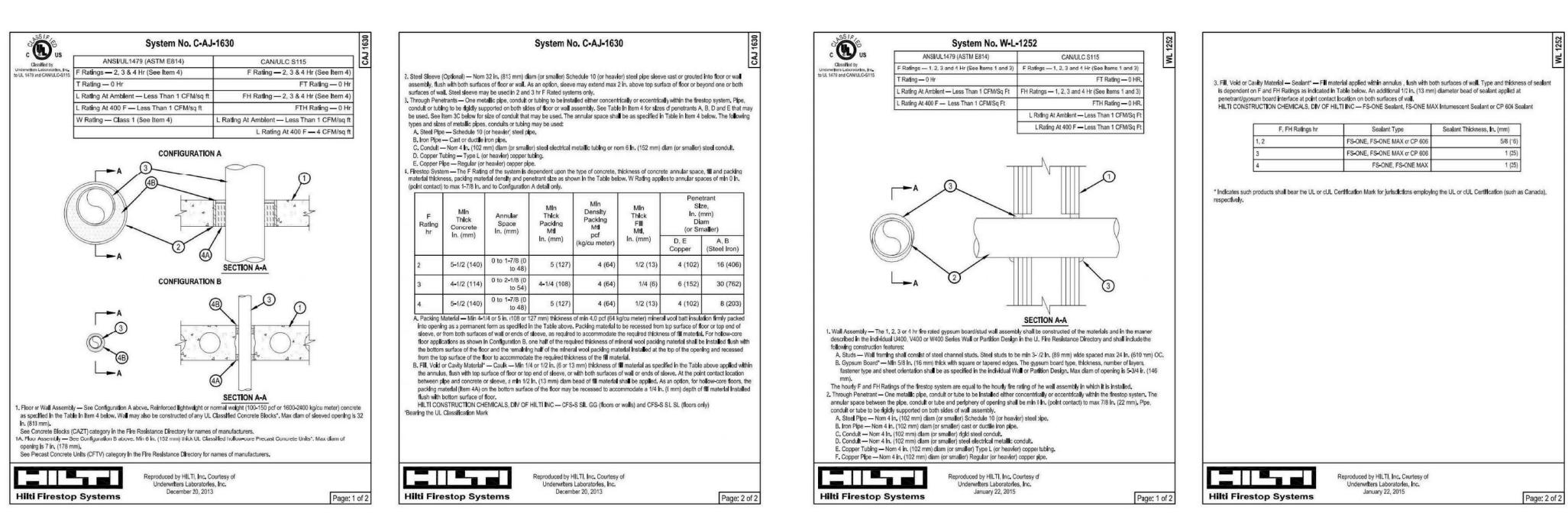
3. ALL EXTERIOR FINISHES TO MEET THICKNESSES OF TABLE 1405.2. ALUMINUM PREFINISHED FLASHING SHOWN IN DETAILS TO MEET THICKNESS OF ALUMINUM SIDING IN TABLE 1405.2 TO ENSURE COMPLIANCE

- 8. 'SHEATHING PER STRUCT' IS SHOWN ONLY ON ONE SIDE OF THE ASSEMBLIES. SEE STRUCT FOR SHEAR WALL SPECIFICATIONS AND LOCATIONS WITH BOTH SIDES OF ASSEMBLY SHEATHED. WHERE SHEATHING IS SHOWN FOR PARITAL WALLS. PROVIDE AN EVEN FINISHED SURFACE BY ADDING SHEATHING TO ENTIRE 9. SOME INTERIOR PARTITIONS INCLUDE PLYWOOD SHEAR LAYERS, REFER TO STRUCTURAL FOR LOCATIONS
- 11. ALL SINGLE PLY ROOFING TO HAVE A MIN. 1/4" PER FOOT SLOPE TO DRAIN IN ALL CONDITIONS.



REFERENCED ASSEMBLY DETAILS FROM ORIGINAL BUILDING PERMIT SET APPROVED UNDER PERMIT# 2019-8703





ACOUSTIC PARTITION NOTES

- 1. EXTEND ACOUSTICAL PARTITIONS FULL HEIGHT, UNLESS NOTED
- OTHERWISE. 2. SEAL FULL HEIGHT PARTITIONS AIR TIGHT TO STRUCTURAL FLOOR OR ROOF DECK ABOVE. CONFORM WITH DESIGN PRACTICE RECOMMENDED IN ASTM E497 AND ASTM C919. ASTM E497-99 STANDARD PRACTICE FOR INSTALLING SOUND ISOLATION LIGHTWEIGHT PARTITIONS. ASTM C919-08, STANDARD PRACTICE FOR USE OF SEALANTS IN ACOUSTICAL APPLICATIONS. 3. SEAL PARTITIONS AT THE FLOOR SURFACE WITH ACOUSTICAL
- CAULKING BY APPLYING SEALANT TO THE FIRST LAYER OF DRYWALL EACH SIDE. 4. ELECTRICAL OR OTHER OUTLET BOXES SHOULD NOT BE INSTALLED BACK TO BACK WITHIN A SINGLE PARTITION. SEPARATE BY AT LEAST ONE STUD SPACE. SEAL PERIMETER OF DRYWALL CUTOUT FOR ALL BOXES AND RECESSED PANELS.
- EXCEPTION AT UNITS WHERE KITCHENS ARE BACK-TO-BACK AND FIBERGLASS BACK BOXES ARE TO BE USED, PER ELECTRICAL. 5. PIPING AND DUCT PENETRATIONS: CLOSE UP MAX 1/2" GAP
- AROUND EACH PENETRATION ON EACH SIDE WITH BACKER ROD OR COMPRESSED GLASS FIBER BATT AND SEAL WITH ACOUSTICAL CAULKING. 6. ACOUSTICAL PARTITIONS CONSTRUCTED WITH CMU MUST BE
- SEALAED ON ALL SOUND-EXPOSED SURFACES WITH TWO COATS OF PAINT OR SEALER. SPECIFY PAINT OR SEALER WHICH WILL PENETRATE CMU PORES AND SEAL THE SURFACE AIRTIGHT. 7. WHERE TWO OR MORE LAYERS OF GYPSUM BOARD ARE USED,
- STAGGER BOARD JOINTS. 8. ACOUSTICAL PARTITION DRYWALL: TYPE X GYPSUM WALLBOARD TO REDUCE VARIABILITY OF ACOUSTICAL
- PERFORMANCE. 9. CONSTRUCT PARTITIONS WITH GAUGE REQUIREMENTS AS LISTED IN SPECIFICATION SECTION 099200 10. WHERE AN ACOUSTICAL PARTITION MEETS ANOTHER PARTITION (USUALLY AT 90 DEGREES) DRYWALL SHOULD NOT RUN CONTINUOUSLY ACROSS THE JUNCTION BUT TERMINATE IN A TAPED JOINT ON EACH SIDE. THE ADJOINING PARTITION MUST BE FULL HEIGHT TO PRESERVE THE ACOUSTICAL PARTITION'S SOUND ISOLATION PERFORMANCE. SEE DETAIL DRAWINGS FOR ADDITIONAL INFORMATION.

FIRE PENETRATION NOTES

- 1. REFER TO MECHANICAL, ELECTRICAL AND PLUMBING PLANS FOR THE LOCATIONS OF PENETRATIONS THROUGH WALLS. 2. REFER TO EGRESS PLAN SHEETS G-011 TO G-013 FOR A DIAGRAM OF THE LOCATIONS OF RATED WALLS. IN ADDITION, REFER TO WALL ASSEMBLIES IDENTIFIED ON THE PLANS FOR FIRE RATED WALLS
- 3. ALL ELECTRCAL, MECHANICAL AND PLUMBING PENETRATIONS MUST COMPLY WITH SECTION 714 OF THE CBC. 4. ACCESS TO FIRE AND SMOKE DAMPERS, LARGE ENOUGH TO PERMIT INSPECTION AND MAINTENANCE OF THE DAMPER AND ITS OPERATING PARTS, SHALL BE PROVIDED. THE ACCESS SHALL NOT AFFECT THE INTEGRITY NOR REDUCE THE FIRE-RESISTANCE RATING OF THE FIRE-RESISTANCE-RATED ASSEMBLIES. ACCESS POINTS SHALL BE PERMANENTLY IDENTIFIED ON THE EXTERIOR BY A LABEL HAVING LETTERS NOT LESS THAN 0.5" IN HEIGHT READING: FIRE/SMOKE DAMPER, SMOKE DAMPER OR FIRE DAMPER. ACCESS DOORS IN DUCTS SHALL BE TIGHT FITTING AND SUITABLE FOR THE REQUIRED DUCT CONSTRUCTION. 5. FIRE AND/OR SMOKE DAMPER ASSEMBLIES, INCLUDING SLEEVES, AND INSTALLATION PROCEDURES SHALL BE APPROVED BY THE BUILDING INSPECTOR PRIOR TO INSTALLATION. 6. PENETRATIONS THROUGH FIRE RATED PARTITIONS SHALL MEET THE REQUIREMENTS OF SPECIFICATION SECTION 078400 FOR
- PENETRATION FIRESTOPPING IN ADDITION TO THE FOLLOWING: CODE VERIFICATION: PRIOR TO INSTALLATION OF FIRE STOPPING SYSTEMS OBTAIN APPROVAL FROM THE JURISDICTIONAL CODE AUTHORITIES FOR THE FIRE STOPPING SYSTEMS AND
- APPLICATIONS PROPOSED. ALL FIRESTOPPING SHALL BE TESTED IN ACCORDANCE WITH ASTM E119, ASTM E814, UL 263, OR UL 1479 TO MEET THE HOURLY FIRE RATINGS OF THE CONSTRUCTION BEING SEALED. PROVIDE F RATED ASSEMBLIES, EXCEPT WHERE T RATED ASSEMBLIES ARE REQUIRED BY THE CODE AUTHORITY. FIRESTOPPING SYSTEMS SHALL BE UL LISTED ASSEMBLIES
- SYSTEMS MEETING THE REQUIREMENTS SPECIFIED AND SUITABLE FOR THE CONDITIONS INDICATED AS MANUFACTURED BY ONE OR MORE OF THE FOLLOWING MAY BE USED: METACAULK.
- 2. TREMCO INC
- 3. HILTI USA (BASIS OF DESIGN) 4. GRACE CONSTRUCTION PRODUCTS.
- 5. RECTORSEAL 6. SPECIFIED TECHNOLOGIES, INC.
- 7. 3M.

 TYPICAL DETAIL OF THE "BASIS OF DESIGN" SYSTEM ARE
 PROVIDED TO THE LEFT. THE CONTRACTOR MAY SELECT FROM SPECIFIED LIST OF MANUFACTURES BUT MUST REVIEW AND OBTAIN APPROVAL ALL DETAILS WITH THE JURISDICTIONAL CODE AUTHORITIES PRIOR TO INSTALLATION.

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	National City - 8th & B E 8TH STREET & B AVE. NATIONAL CITY, CA, 91950	BID SET 2019 20 SEPT 2019
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ASSEMBLY

DETAILS

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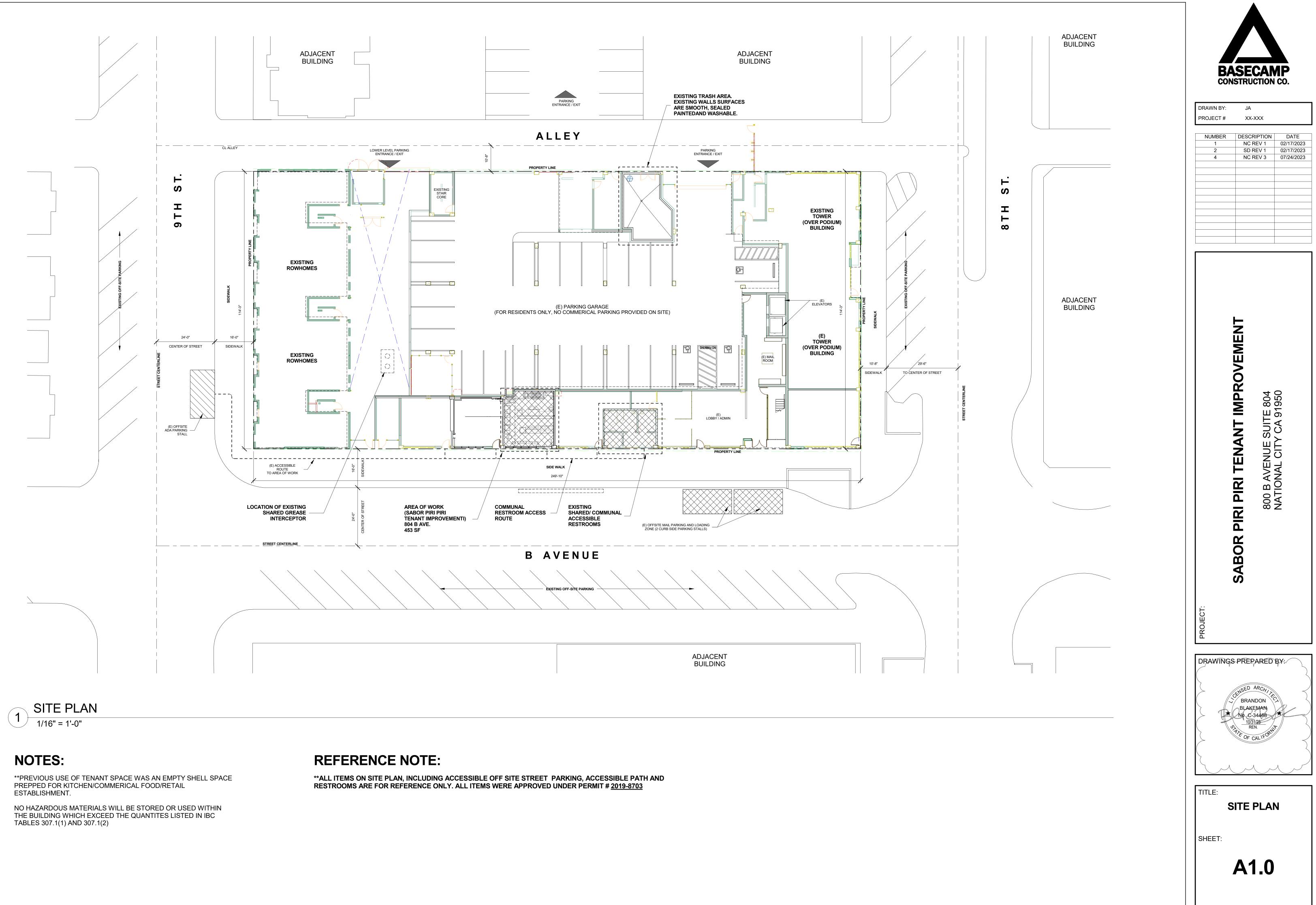


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Σ >N re 804 91950 MP YENUE SUITI Z ENA 800 B AVI NATIONA PIRI Ο Μ 4 S DRAWINGS PREPARED BY: BRANDON BLAKEMAN TITLE: **ASSEMBLY DETAILS** SHEET:

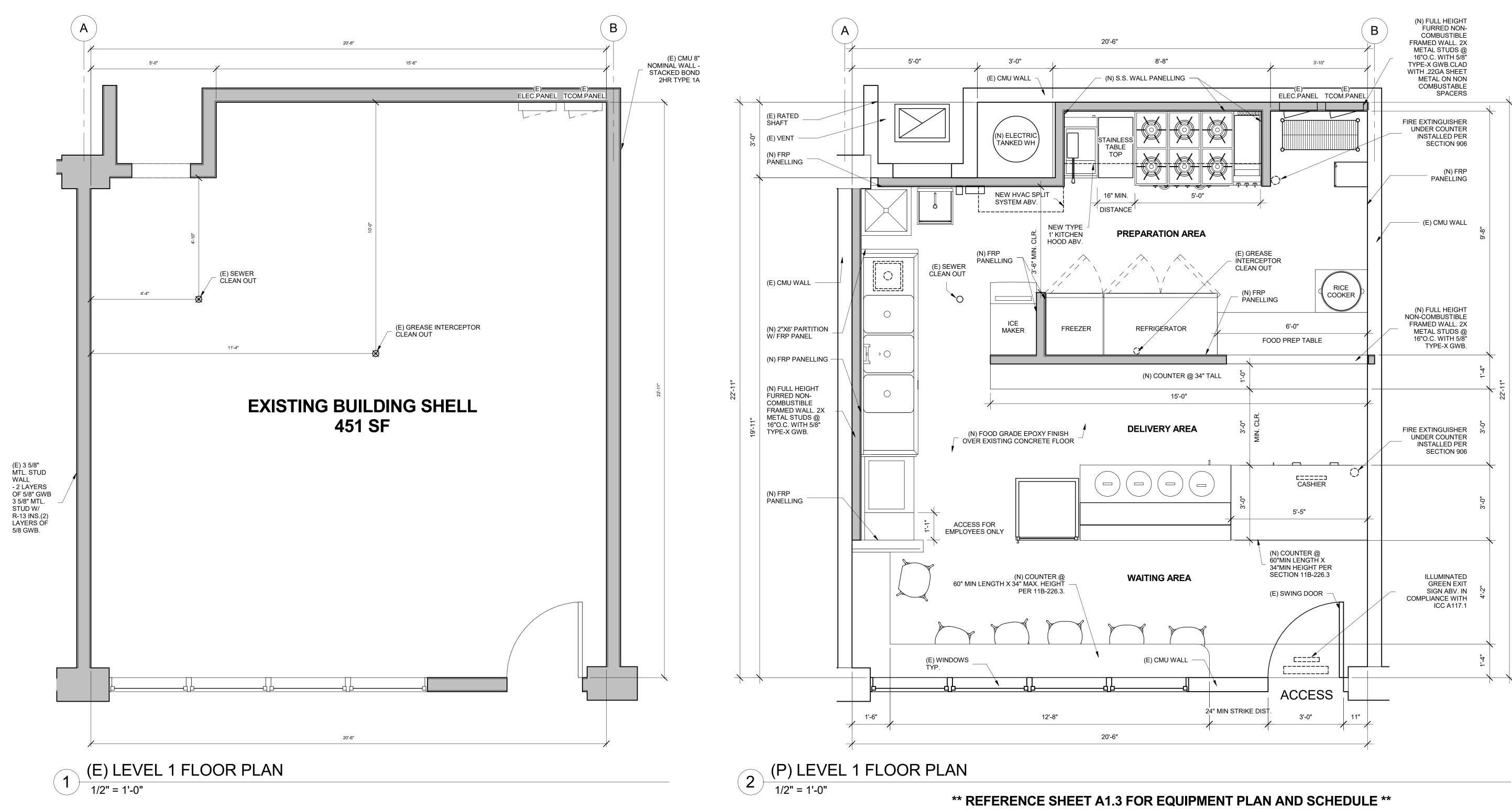
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GENERAL NOTES

WALL AND CEILING MATERIALS SHALL BE CLASSIFIED IN ACCORDANCE WITH ASTM E 84 OR UL 723.

ALL FOOD-RELATED AND UTENSIL-RELATED EQUIPMENT SHALL MEET OR BE EQUIVALENT TO SANITATION STANDARDS ESTABLISHED BY AN AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI) ACCREDITED PROGRAM.

EXISTING GREASE TRAP WILL BE CLEANED ONCE A MONTH BY A SPECIALIZED COMPANY

EXISTING COMMUNAL RESTROOMS SERVES EMPLOYEES AND CONSUMERS.

NOTE: EXIT SIGNS SHALL BE INTERNALLY OR EXTERNALLY ILLUMINATED AT ALL TIMES AND SHALL BE CONNECTED TO AN EMERGENCY POWER SYSTEM (BATTERIES, UNIT EQUIPMENT OR AN ON-SITE GENERATOR) THAT WILL AUTOMATICALLY ILLUMINATE THE EXIT SIGNS FOR A DURATION OF NOT LESS THAN 90 MINUTES.

DOOR WILL MAINTAIN 'UNLOCK' POSITION DURING BUSINESS HOURS

ACCESS ONLY FOR EMPLOYEES

ONE INCH AIR GAP TO FLOOR SINK FROM INDIRECT DISCHARGE OF 3 COMP SINK, PREP SINK AND WATER HEATER FRONT COUNTER (CASHIER AND DELIVERY AREA) COMPLIES WITH ADA STANDARDS

PARTITION WALL 2X6" HIGH MIN. ANCHORED TO WALL AND CEILING COVERED WITH FRP PANEL.

DOOR NOTES:

11B-404.2.9 DOOR AND GATE OPENING FORCE: 1. THE FORCE FOR PUSHING OR PULLING OPEN A DOOR OR GATE SHALL BE AS FOLLOWS:

A. INTEROR HINGED DOORS AND GATES: 5 POUNDS (22.2 N) MAXIMUM. B. SLIDING OR FOLDING DOORS: 5 POUNDS (22.2 N) MAXIMUM.

C. REQUIRED FIRE DOORS: THE MINIMUM OPENING FORCE ALLOWABLE BY THE APPROPRIATE ADMINISTRATIVE AUTHORITY, NOT TO EXCEED 15 POUNDS (66.7 N). D. EXTERIOR HINGED DOORS: 5 POUNDS (22.2 N) MAXIMUM

THESES FORCES DO NOT APPLY TO THE FORCE REQUIRED TO RETRACT LATCH BOLTS OR DISENGAGE OTHER DEVICES THAT HOLD THE DOOR OR GATE IN A CLOSED POSITION (PER CBC 2019 SECTION 11B-404.2.9. 2. ALL OPERABLE PARTS OF ALL DOORS SHALL BE OPERABLE WITH ONE HAND AND SHALL NOT REQUIRE TIGHT GRASPHING, PINCHING, OR TWISTING OF THE WRIST, THE FORCE REQUIRED TO ACTIVATE OPERABLE PARTS SHALL BE 5 POUNDS (22.2 N) MAXIMUM. 3. THRESHOLDS, IF PROVIDED AT DOORWAYS, SHALL BE 1/2 INCH (12.7MM) HIGH MAXIMUM, RAISED THRESHOLDS AND CHANGES IN LEVEL AT DOORWAYS SHALL COMPLY WITH SECTIONS 11B-302 AND 11B-303.

THE LOWER 10" OF ALL DOORS WILL COMPLY WITH SECTION: 11B-404.2.10: A. TO BE SMOOTH AND UNINTERRUPTED TO ALLOW THE DOOR TO BE OPENED BY A WHEELCHAIR FOOTREST, WITHOUT CREATING A TRAP OR HAZARDOUS CONDITION. B. NARROW FRAME DOORS MAY USE A 10" HIGH SMOOTH PANEL ON THE PUSH SIDE OF THE DOOR.

DOOR EXIT REQUIREMENTS:

1. EGRESS DOORS SHALL BE READILY OPENABLE FROM THE EGRESS SIDE WITHOUT THE USE OF A KEY OR SPECIAL KNOWLEDGE OR EFFORT. (CFC SECTION 1010.1.9) 2. A READILY VISIBLE DURABLE SIGN IS POSTED ON THE EGRESS SIDE ON OR ADJACENT TO THE DOOR STATING: THIS DOOR TO REMAIN UNLOCKED WHEN THIS SPACE IS OCCUPIED. THE SIGN SHALL BE IN LETTERS 1 INCH HIGH ON A CONTRASTING BACKGROUND. (CFC, SECTION

010.1.9.4 3. EXIT DOORS WILL BE A MINIMUM OF 3 FEET BY 6'-8" WITH A MINIMUM DOOR SWING OF 90 DEGREES. 4. HANDLES, PULLS, LATCHES, LOCKS, AND OTHER OPERABLE PARTS ON DOORS AND GATES SHALL COMPLY WITH SECTION 11B-309.4

OPERABLE PARTS OF SUCH HARDWARE SHALL BE 34 INCHES MINIMUM AND 44 INCHES MAXIMUM ABOVE THE FINISH FLOOR OR GROUND. WHERE SLIDING DOORS ARE IN THE FULLY OPEN POSITION, OPERATING HARDWARE SHALL BE EXPOSED AND USABLE FROM BOTH SIDES. (CBC 11B-404.2.7)

WINDOW SCHEDULE

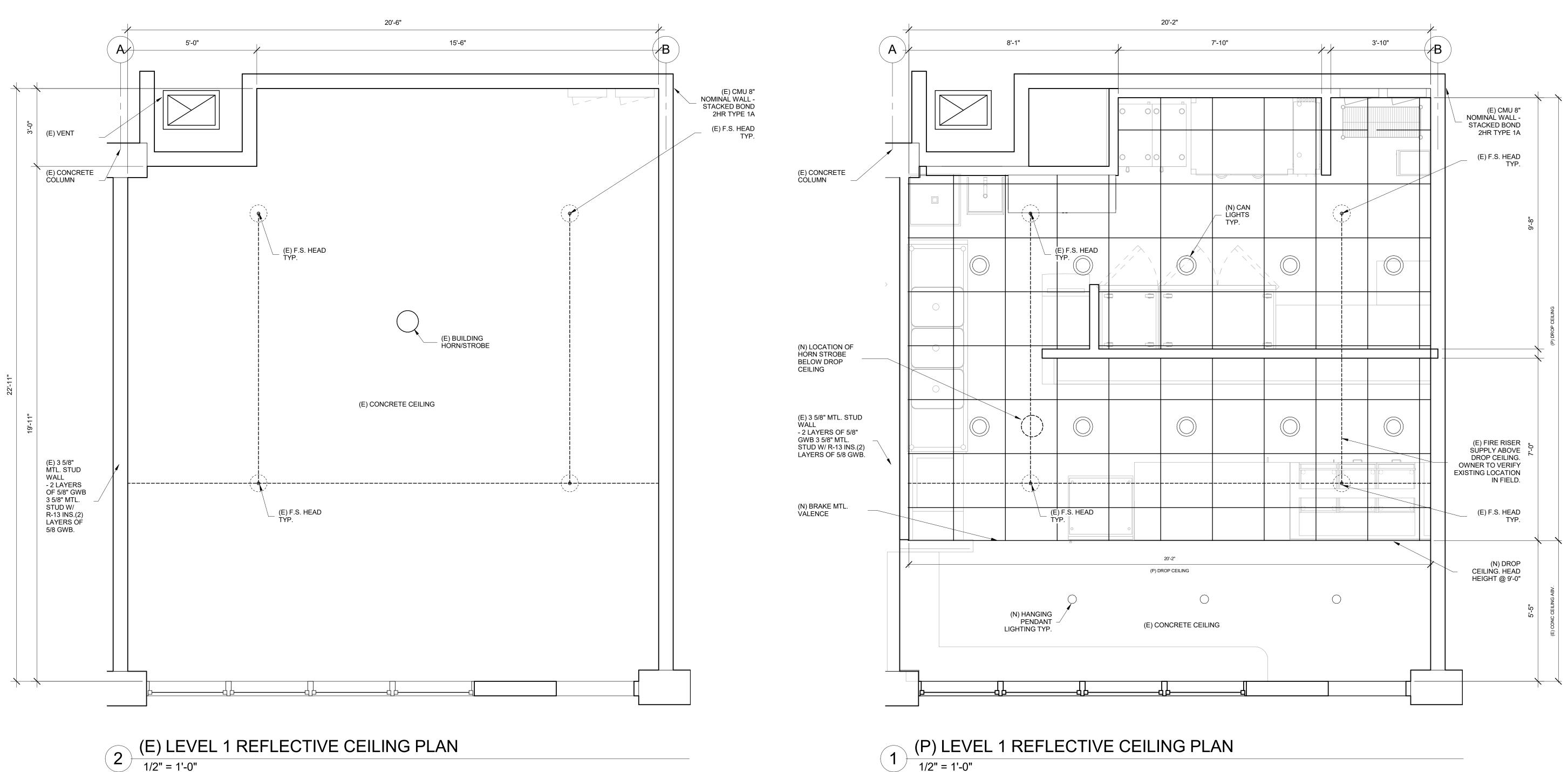
	ТҮРЕ	SIZE	MATERIAL	NOTES
EXISTING	MAIN FACADE WINDOW	3'-2" X 4'-0"	ALUMINUM AND GLASS	FIXED, NON-OPERABLE
EXISTING	MAIN FACADE WINDOW	3'-2" X 4'-0"	ALUMINUM AND GLASS	FIXED, NON-OPERABLE
EXISTING	MAIN FACADE WINDOW	3'-2" X 4'-0"	ALUMINUM AND GLASS	FIXED, NON-OPERABLE
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EXISTING	MAIN FACADE WINDOW	3'-2" X 2'-0"	ALUMINUM AND GLASS	FIXED, NON-OPERABLE
EXISTING	MAIN FACADE WINDOW	3'-2" X 2'-0"	ALUMINUM AND GLASS	FIXED, NON-OPERABLE
EXISTING	MAIN FACADE WINDOW	3'-2" X 2'-0"	ALUMINUM AND GLASS	FIXED, NON-OPERABLE
EXISTING	MAIN FACADE WINDOW	3'-2" X 2'-0"	ALUMINUM AND GLASS	FIXED, NON-OPERABLE

DOOR SCHEDULE

	TYPE	SIZE	MATERIAL	TYPE	REMARKS
EXISTING	(E) MAIN ACCESS	3'-0" X 7'-0"	ALUMINUM AND SAFETY GLAZING	SWING	DOOR SELF/CLOSING AND TIGHTLY FITTED

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BASECAMP CONSTRUCTION CO.



1/2" = 1'-0"

SUSPENDED CEILINGS:

1/2" = 1'-0"

A. THE WIDTH OF THE PERIMETER SUPPORTING CLOSURE ANGLE OR CHANNEL SHALL BE NOT LESS THAN 2.0 IN. UNLESS QUALIFIED PERIMETER SUPPORTING CLIPS ARE USED.

B. CLOSURE ANGLES OR CHANNELS SHALL BE SCREWED OR OTHERWISE POSITIVELY ATTACHED TO WALL STUDS OR OTHER SUPPORTING STRUCTURES. PERIMETER SUPPORTING CLIPS SHALL BE QUALIFIED IN ACCORDANCE WITH APPROVED TEST CRITERIA PER SECTION 13.2.5.

C. PERIMETER SUPORTING CLIPS SHALL BE ATTACHED TO SUPPORTING CLOSURE ANGLE OR CHANNEL WITH A MINIMUM OF TWO SCREWS PER CLIP AND SHALL BE INSTALLED AROUND THE ENTIRE CEILING PERIMETER.

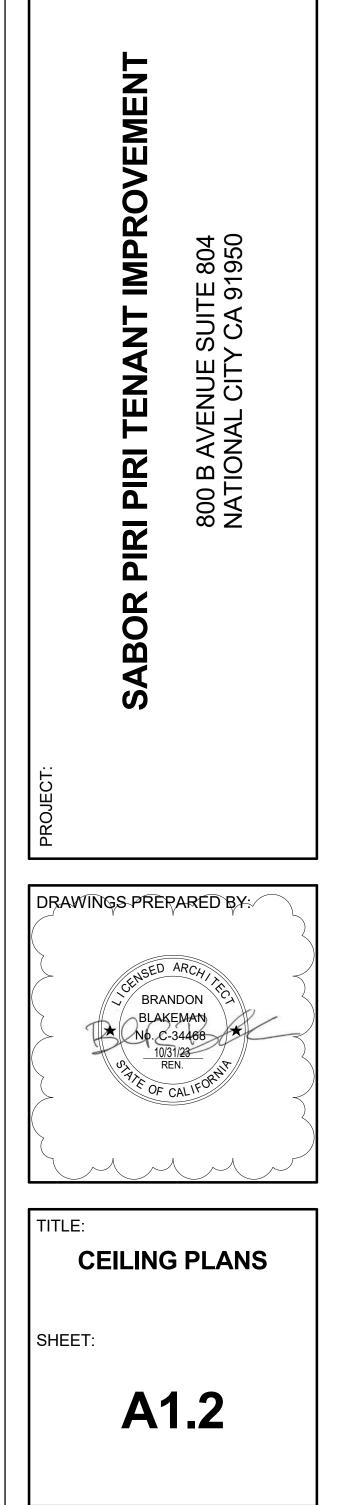
D. IN EACH ORTHOGONAL HORIZONTAL DIRECTION, ONE END OF THE CEILING GRID SHALL BE ATTACHED TO THE CLOSURE ANGLE, CHANNEL, OR PERIMETER SUPPORTING CLIP. THE OTHER END OF THE CEILING GRID IN EACH HORIZONTAL DIRECTION SHALL HAVE A MINIMUM 0.75 IN CLEARANCE FROM THE WALL AND SHALL REST UPON AND BE FREE TO SLIDE ON A CLOSURE ANGLE, CHANNEL, OR PERIMETER SUPPORTING CLIP.

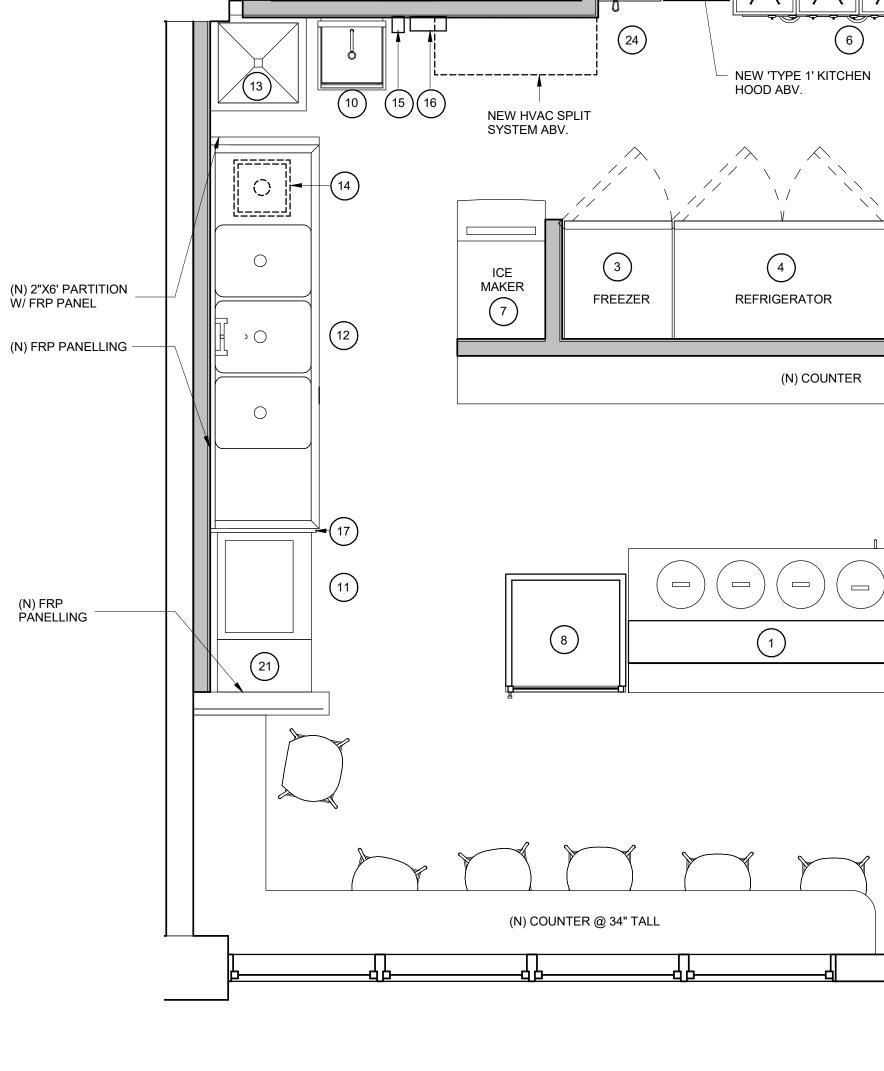
E. CEILING AREAS OVER 2500 FT2 MUST HAVE SEISMIC SEPARATION JOINTS OR FULL HEIGHT PARTIONS.

F. CEILINGS WITHOUT RIGID BRACING MUST HAVE 2" OVERSIZE TRIM RINGS FOR SPRINKLERS AND OTHER CEILING PENETRATIONS.



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(E) CMU WALL -

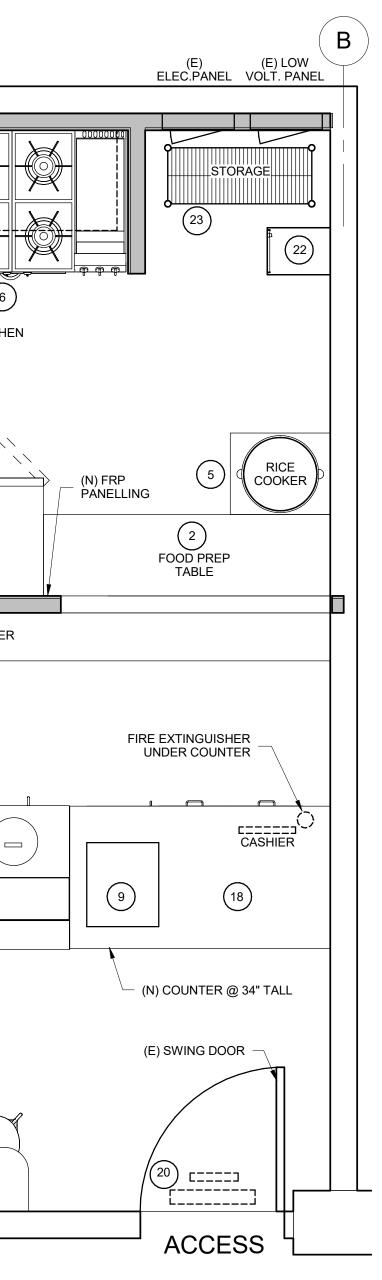
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STAINLESS TABLE TOP

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EQUIPMENT SCHEDULE

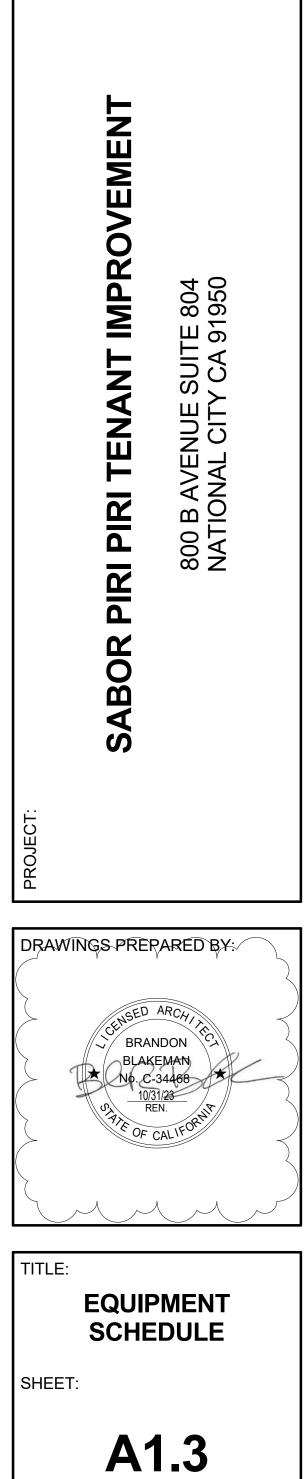
MARK	QTY	DESCRIPTION		ELECTR	ICAL		w	ATER	WASTE	INPUT	REMARKS
			AMPS	HERTZ	VLTS	PHASE	COLD	нот	SIZE	BTUS	
1		(N) 60" HOT FOOD STATION BRAND: VOLLRATH MODEL: T39710-2	16	60	120	1					60W 24D 49H
2		(N) REFRIGERATED PREP TABLE BRAND: BEVERAGE-AIR MODEL: SPE60HC-16	9.6	60	115	1					60W 29.25 D 41.1H
3		(N) FREEZER BRAND: AVANTCO MODEL: SS-1F-HC 29"	2.62	60	115	1					29W 32.25D 82.5H
4		(N) REFRIGERATOR BRAND: AVANTCO MODEL: SS-2R-HC 54"	6.08	60	115	1					NSF APPROVE
5		(N) RICE COOKER BRAND: AVANTCO MODEL: 177RW90			120						NSF APPROVE
6		(N) 6 BURNER 60" NATURAL GAS BRAND: COOKING PERFORMANCE GROUP MODEL: S60-GS24-N								276,000	
7		(N) ICE MACHINE 22" BRAND: AVANTCO MODEL: KMC-H-322-A	12	60	115		X				
8		(N) GLASS DOOR MERCHANDISER 29.5" BRAND: BEVERAGE AIR MODEL: MT23-1B	7	60	115						
9		(N) COUNTERTOP HEATED DISPLAY CASE BRAND: AVANTCO MODEL: HDC-36	13.6	60	120						
(10)		(N) WALL MOUNTED HAND SINK BRAND: REGENCY MODEL: 600HS12SP					X	X			9"X9"X4" COMPARTMENT NSF APPROVE
(11)		(N) PREP SINK BRAND: REGENCY MODEL: 600S118181XLFT					X	X			18"X18"X14" COMPARTMENT INDIRECT DISCHARGE TO FLOOR SINK NSF APPROVE
(12)		(N) THREE COMPARTMENT SINK BRAND: REGENCY MODEL: 600S3162018G					X	X			16"X20"X12" COMPARTMENT INDIRECT DISCHARGE TO FLOOR SINK NSF APPROVE
(13)		(N) MOP SINK BRAND: FLORESTONE MODEL: MSR-2424					X	X			24"X24"X10" COMPARTMENT NSF APPROVE
(14)		(N) FLOOR SINK BRAND: ZURN MODEL: Z1900									NSF APPROVE
(15)		(N) SOAP DISPENSER BRAND: LAVEX MODEL: 712LSD40V									NSF APPROVE
(16)		(N) TOWEL DISPENSER BRAND: LAVEX MODEL: 712LSD40V									NSF APPROVE
(17)		(N) SPLASH GUARD MATERIAL: STAINLESS STEEL HEIGHT: 12"									NSF APPROVE
(18)		(N) COUNTER CUSTOM MADE MODEL: QUARTZ									2 DRY STORAGE UNDERSHELF 24X60 2 TIER NSF APPROVE
(19)		(N) WATER HEATER BRAND: NORITZ MODEL: NRC98						X		38,000	SEE SPEC SHEET ON THIS SHEET NSF APPROVE
20		(N) AIR CURTAIN BRAND: CURTRON MODEL: AP-2-36-1-SS		1/3	120	1					PROVIDED WITH AUTOMATIC DOOR PLUNGER SWITCH NSF APPROVE
(21)		(N) DRAIN BOARD DIMENSIONS: 12X24X36									NSF APPROVE
(22)		(N) EMPLOYEE LOCKERS BRAND: GLOBAL INDUSTIRAL 4 DOOR MODEL: T9F493455GY									NSF APPROVE
23		(N) WIRE RACK (14X36) BRAND: REGENCY MODEL: 460EB1848K85									2 DRY STORAGE UNDERSHELF 18X24 6 TIER TOTAL DRY STORAGE: NSF APPROVE 48 LF
(24)		(N) DEEP FOR YER BRAND: MAINSTREET EQUIPMENT MODEL: 541FF40N								90,000	15.5"W X 30.25"D X 47 1/8"H NSF APPROVE

FINISH SCHEDULE

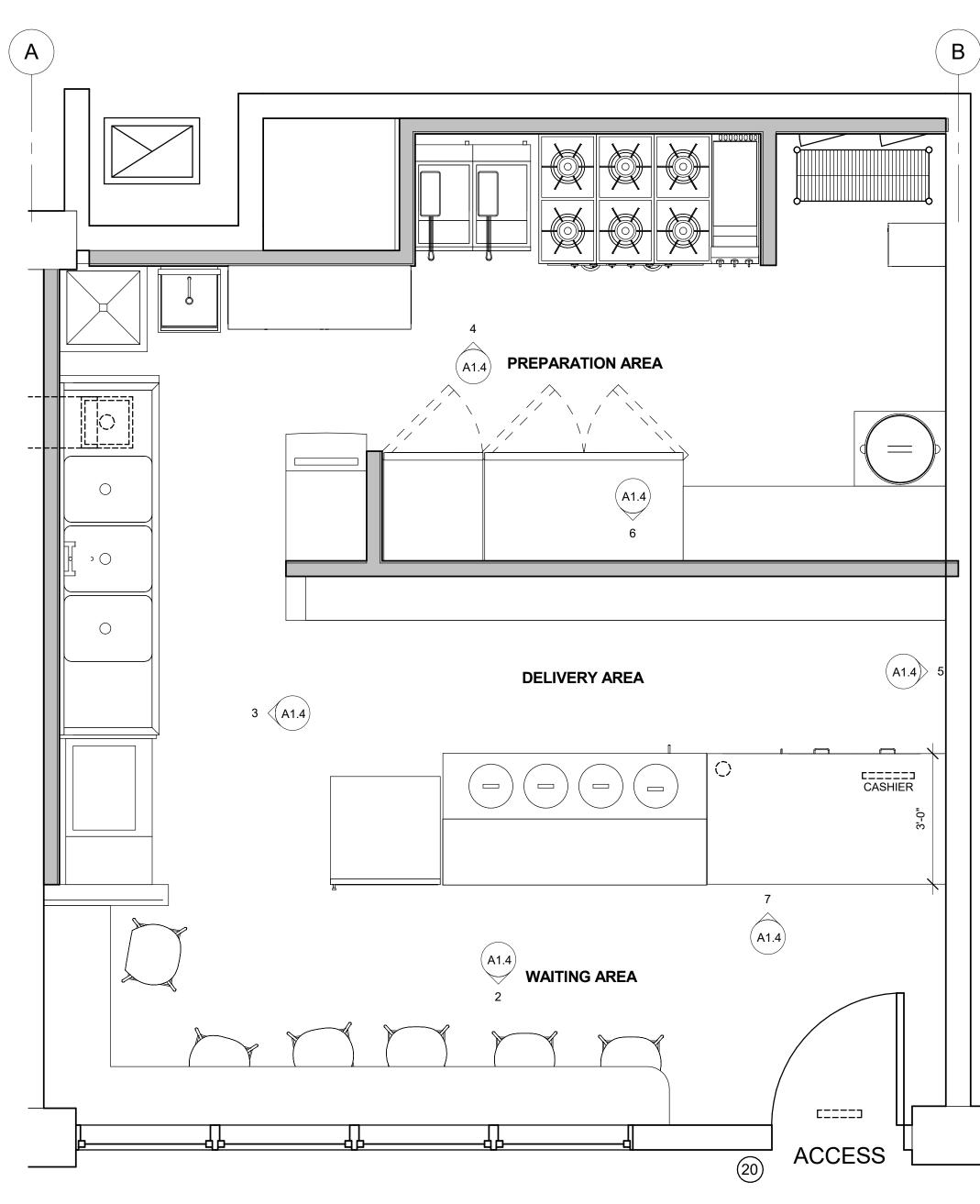
LOCATION FLOOR		OOR	WALL			CEILING			BASE		REMARKS	
	SEALED CONCRETE	TILE	INTERIOR PAINT	WASHABLE PAINT	FRP PANEL FLOOR TO 5' HIGH MINIMUM	TILE FROM FLR TO CLNG 8' HIGH MIN.	CONCRETE CEILNG	T-BAR SUSP. CLNG WASHABLE PANELS	GYPSUM BOARD W WASHABLE PAINT	3/8" RADIUS MIN. SLIM FOOT 6"	VINYL 4" MIN	CONCRETE SEALER BRAND: CONKRETE-SEAL MODEL: CK-128 VOC FREE NON TOXIC CLEAR SATIN
WAITING AREA	X		X				X				X	USDA/FDA COMPLIANT, CHEMICAL RESISTANT, MILDEW RESISTANT, SEALER,
DELIVERY AREA	Χ			X				X	Х	Χ		WATERPROOF
WASHING AREA	X				X			X		X		
PREPARATION AREA	X				X			X		X		
STORAGE AREA	X				X			X		X		
(E) ACCESSIBLE RESTROOMS	Χ				x			x		Χ		



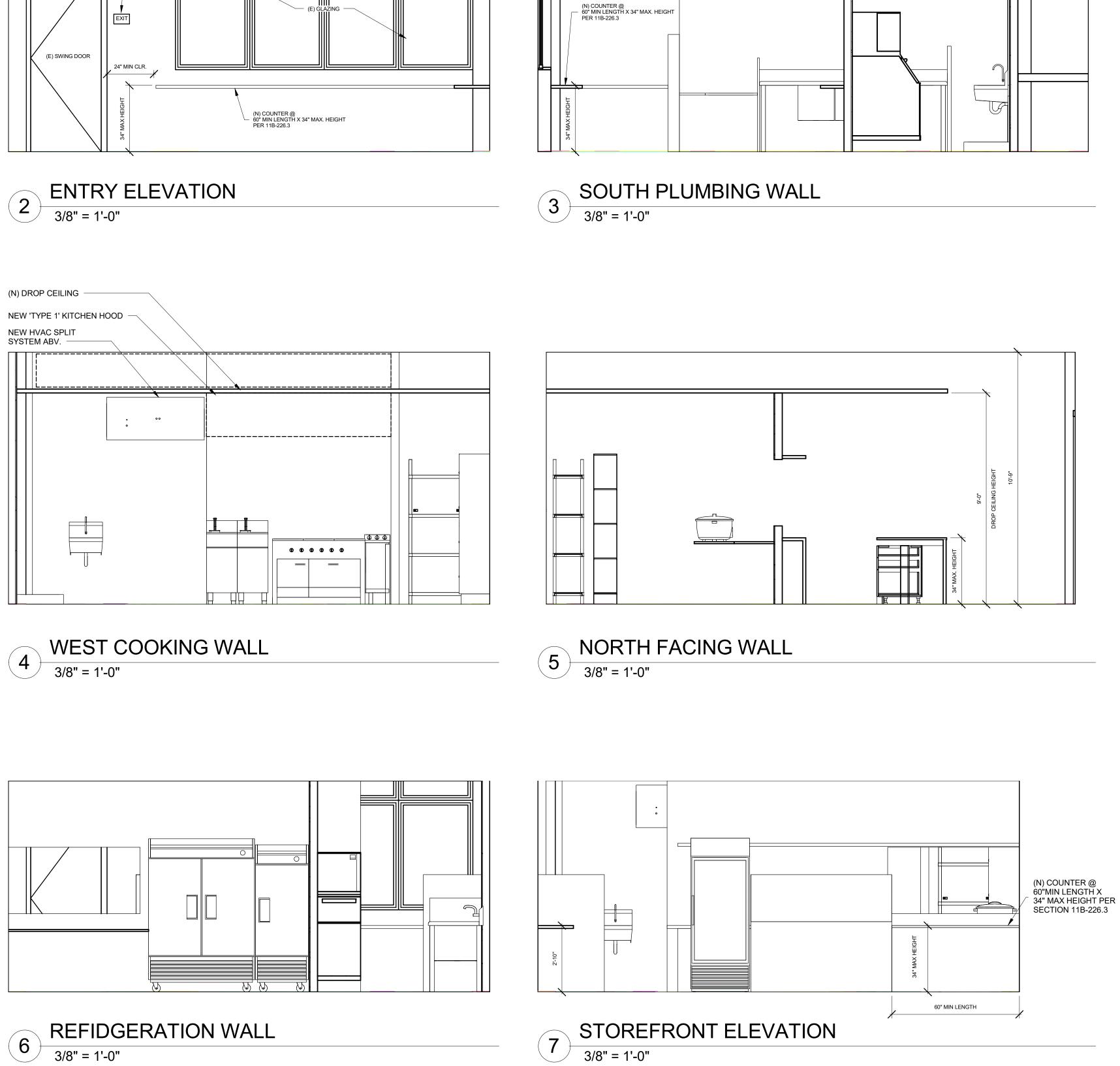
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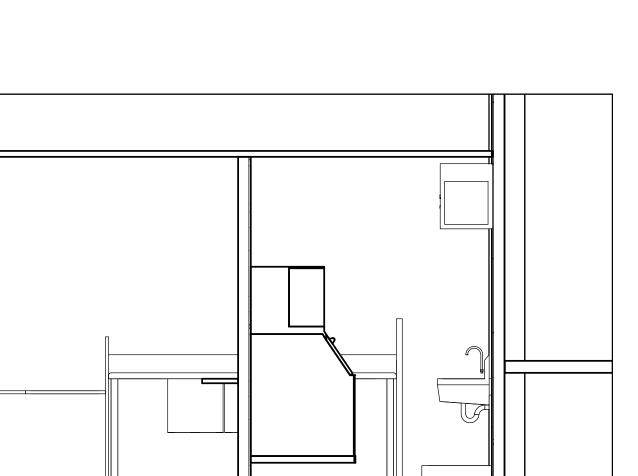
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INTERIOR REFERENCE PLAN 1/2" = 1'-0"



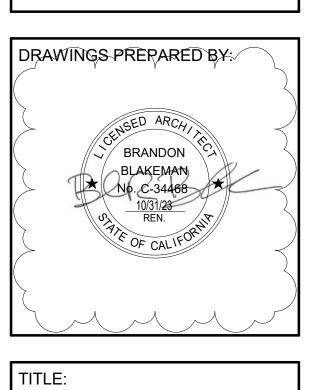
TACTILE 'EXIT' - SIGNAGE PER ICC A117.1





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4	NC REV 3	07/24/2023

FENANT IMPROVEMENT /ENUE SUITE 804 AL CITY CA 91950 800 B AVE NATIONAI **PIRI PIRI T SABOR**



INTERIOR ELEVATIONS SHEET:

1. THE SEISMIC BRACING AND ANCHORAGE OF ELECTRICAL CONDUITS, BUS DUCT, WIREWAY, AND CABLE TRAY SHALL BE IN ACCORDANCE WITH THE 2019 CALIFORNIA ELECTRICAL CODE AND "GUIDELINE FOR SEISMIC RESTRAINTS OF MECHANICAL SYSTEMS AND PLUMBING PIPING SYSTEMS, "PUBLISHED BY SMACNA AND PPIC, OR THE SUPERSTRUT-SEISMIC RESTRAINT SYSTEM. OR THE KIN-LINE SEISMIC RESTRAINT SYSTEM. ELECTRICAL EQUIPMENT MUST BE SEISMIC-CERTIFIED AND ANCHORED ACCORDING TO EQUIPMENT MANUFACTURE'S INSTALLATION INSTRUCTIONS. [CEC 110.3(B), CBC 1613.1, ASCE 7, CHAPTER 13]

2. ALL ELECTRICAL MATERIALS AND EQUIPMENT SHALL BE NEW AND SHALL BE LISTED BY UNDERWRITER'S LABORATORIES (UL) AND BEAR THEIR LABEL, OR LISTED AND CERTIFIED BY A NATIONALLY RECOGNIZED TESTING AUTHORITY WHERE UL DOES NOT HAVE A LISTING. CUSTOM MADE EQUIPMENT SHALL HAVE A COMPLETE TEST DATA SUBMITTED BY THE MANUFACTURER ATTESTING TO ITS SAFETY. IN ADDITION. THE MATERIALS, EQUIPMENT, AND INSTALLATION SHALL COMPLY WITH THE REQUIREMENTS OF THE FOLLOWING:

AMERICAN SOCIETY OF TESTING MATERIALS (ASTM)

INSULATED POWER CABLE ENGINEERS ASSOCIATION (IPCEA) NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION (NEMA)

AMERICAN STANDARD ASSOCIATION (ASA)

NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) AMERICAN NATIONAL STANDARD INSTITUTE (ANSI)

2019 CALIFORNIA ELECTRICAL CODE (CEC), AS AMENDED BY THE 2019 CALIFORNIA ELECTRICAL CODE (CEC) 2019 CALIFORNIA ENERGY CODE INSTITUTION OF ELECTRICAL AND ELECTRONIC ENGINEERS (IEEE)

ALL LOCAL CODES HAVE JURISDICTION.

WHERE THE CODES HAVE DIFFERENT LEVELS OF REQUIREMENTS, THE MOST STRINGENT RULE SHALL APPLY.

3. THE CONTRACTOR SHALL VISIT THE SITE INCLUDING ALL AREAS INDICATED ON THE DRAWINGS. HE SHALL THOROUGHLY FAMILIARIZE HIMSELF WITH THE EXISTING CONDITIONS, AND BY SUBMITTING A BID ACCEPTS THE CONDITIONS UNDER WHICH HE SHALL BE REQUIRED TO PERFORM HIS WORK.

4. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN A COMPLETE SET OF CONTRACT DOCUMENTS, ADDENDA, DRAWINGS AND SPECIFICATIONS. HE SHALL CHECK THE DRAWINGS OF THE OTHER TRADES AND SHALL CAREFULLY READ THE ENTIRE SPECIFICATIONS AND DETERMINE HIS RESPONSIBILITIES. FAILURE TO DO SO SHALL NOT RELEASE THE CONTRACTOR FROM DOING THE WORK IN COMPLETE ACCORDANCE WITH THE DRAWINGS AND SPECIFICATIONS.

5. ALL UTILITY WORK (POWER) SHALL BE IN COMPLIANCE WITH THESE DRAWINGS AND THE REQUIREMENTS OF THE SERVING UTILITY COMPANY. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO CONTACT THE SERVING UTILITY TO RECEIVE COMPLETE INFORMATION ON THEIR REQUIREMENTS PRIOR TO THE SUBMISSION OF THE BID. THE ACT OF SUBMITTING THE BID SHALL CONSTITUTE ACCEPTANCE OF FULL RESPONSIBILITY BY THE CONTRACTOR TO INSTALL SERVICE IN COMPLIANCE WITH THE SERVING UTILITY AND THE CONTRACT DOCUMENTS.

6. ALL ITEMS SUCH AS SERVICE CONDUIT, CONDUCTORS, DUCTS, CONCRETE PADS, TRANSFORMERS, RISERS, MANHOLES, PULL BOXES, AND PROTECTIVE COVERING FROM SERVICE LOCATION SHALL BE PROVIDED AND INSTALLED, AND SHALL BE VERIFIED WITH THE SERVING UTILITY COMPANY. THE CONTRACTOR SHALL INSTALL THE SERVICE IN COMPLIANCE WITH THE SERVING UTILITY COMPANY, AND SHALL PAY ALL CHARGES LEVIED BY THE SERVING UTILITY COMPANY FOR HIS SERVICE EXCEPT THE FIRST BILLING DEPOSIT. WHERE THE CONTRACT DOCUMENTS ARE MORE RESTRICTIVE, THE DOCUMENTS SHALL GOVERN.

7. THE CONTRACTOR SHALL SECURE AND PAY FOR ALL PERMITS, FEES, CHARGES, AND INCIDENTAL COSTS NECESSARY FOR EXECUTION AND COMPLETION OF ELECTRICAL WORK, INCLUDING ALL CHARGES BY STATE, COUNTY AND LOCAL GOVERNMENTAL AGENCIES AND UTILITY COMPANY.

8. THE CONTRACTOR SHALL COORDINATE HIS WORK WITH OTHER TRADES AT THE SITE. ANY COSTS TO INSTALL WORK TO ACCOMPLISH SAID COORDINATION WHICH DIFFERS FROM THE WORK AS SHOWN ON THE DRAWINGS SHALL BE INCURRED BY THE CONTRACTOR. ANY DISCREPANCIES, AMBIGUITIES OR CONFLICTS SHALL BE BROUGHT TO THE ATTENTION OF THE [ARCHITECT DURING BID TIME FOR CLARIFICATION. ANY SUCH CONFLICTS NOT CLARIFIED PRIOR TO BID SHALL BE SUBJECT TO THE INTERPRETATION OF THE ARCHITECT AT NO ADDITIONAL COST TO THE OWNER.

9. THE CONTRACTOR SHALL PROVIDE AND KEEP UP-TO-DATE A COMPLETE RECORD SET OF DRAWINGS. THESE PRINTS SHALL BE CORRECTED DAILY AND SHOW EVERY CHANGE FROM THE ORIGINAL DRAWINGS. THIS SET OF DRAWINGS SHALL BE KEPT ON THE JOB SITE AND SHALL BE USED ONLY AS A RECORD SET. THIS SHALL NOT BE CONSTRUED AS AUTHORIZATION FOR THE CONTRACTOR TO MAKE CHANGES IN THE LAYOUT WITHOUT DEFINITE INSTRUCTION IN EACH CASE. UPON COMPLETION OF THE WORK, A SET OF REPRODUCIBLE CONTRACT DRAWINGS SHALL BE OBTAINED FROM THE ARCHITECT. AND ALL CHANGES AS NOTED ON THE RECORD SET OF DRAWINGS SHALL BE INCORPORATED THEREON WITH BLACK INK IN A NEAT, LEGIBLE, UNDERSTANDABLE AND PROFESSIONAL MANNER, FAILURE TO KEEP RECORD DRAWINGS UP-TO-DATE SHALL CONSTITUTE CAUSE FOR WITHHOLDING OF PROGRESS PAYMENTS.

10. IN SOME INSTANCES, IT MAY BE NECESSARY TO DEFER WORK IN CERTAIN AREAS AND LOCATIONS UNTIL SUCH TIME AS EXISTING FACILITIES CAN BE TEMPORARILY OR PERMANENTLY REARRANGED BY THE OWNER. THEREFORE, WHENEVER IT BECOMES NECESSARY FOR THE CONTRACTOR TO PERFORM WORK UNDER THIS CONTRACT IN EXISTING AREAS IN WHICH THE OWNER'S WORK IS BEING PERFORMED, THE CONTRACTOR SHALL ADVISE THE ARCHITECT AND THE OWNER RELATIVE TO THIS REQUIREMENT AND SHALL FOLLOW CLOSELY THE DIRECTIVE ISSUED BY THE ARCHITECT INSOFAR AS TIME AND PROCEDURE ARE CONCERNED. THE CONTRACTOR SHALL INCLUDE IN HIS BID ALL PREMIUM TIME TO WHICH HE MAY BE SUBJECTED FOR PERFORMING WORK IN SUCH PROCEDURE AND AT SUCH TIMES AS MAY BE NECESSARY TO CAUSE THE LEAST INTERFERENCE WITH THE OPERATIONS OF THE OWNER.

11. ALL INTERRUPTION OF ELECTRICAL POWER SHALL BE KEPT TO A MINIMUM. HOWEVER, WHEN AN INTERRUPTION IS NECESSARY, THE SHUTDOWN MUST BE COORDINATED WITH THE OWNER AND ARCHITECT 14 CALENDAR DAYS PRIOR TO THE OUTAGE. ANY OVERTIME PAY SHALL BE INCLUDED IN THE CONTRACTOR'S BID. WORK IN EXISTING SWITCHBOARDS OR PANELBOARDS SHALL BE COORDINATED WITH THE OWNER PRIOR TO REMOVING ACCESS PANELS OR DOORS.

12. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE TEMPORARY POWER FACILITIES AND CONNECTIONS FOR ALL FEEDERS OR SYSTEMS BEING DISCONNECTED IN ORDER TO MAINTAIN SYSTEMS IN OPERATION OR WHERE SAID FEEDERS OR SYSTEMS REQUIRE EMERGENCY STANDBY POWER.

13. SHOP DRAWINGS SHALL BE SUBMITTED WITHIN THIRTY DAYS AFTER AWARD OF THE CONTRACT. THE CONTRACTOR SHALL SUBMIT FIVE COPIES OF A COMPLETE LIST OF MATERIALS AND EQUIPMENT INCLUDING MANUFACTURER AND MODEL NUMBER PROPOSED FOR THE JOB. SHOP DRAWINGS SHALL INCLUDE JOB DESCRIPTION, ARCHITECT AND ENGINEER IDENTIFICATION, AND ALL DATA WITH CAPACITIES, SIZES, DIMENSIONS, CATALOG NUMBERS, AND MANUFACTURER'S BROCHURES. SHOP DRAWINGS shall BE SUBMITTED FOR ITEMS LISTED IN SPECIFICATIONS. PARTIAL, INCOMPLETE, OR UNBOUND SUBMITTALS WILL BE RETURNED WITHOUT REVIEW. CONTRACTOR SHALL SUBMIT A SCHEDULE OF ALL SHOP DRAWINGS AND SUBMITTALS WHICH ARE TO BE REVIEWED WITHIN FIFTEEN CALENDAR DAYS OF CONTRACT AWARD.

14. AFTER ALL REQUIREMENTS OF THE SPECIFICATIONS AND/OR THE DRAWINGS HAVE BEEN FULLY COMPLETED, REPRESENTATIVES OF THE OWNER WILL INSPECT THE WORK. THE CONTRACTOR SHALL PROVIDE COMPETENT PERSONNEL TO DEMONSTRATE THE OPERATION OF ANY ITEM OR SYSTEM TO THE FULL SATISFACTION OF EACH REPRESENTATIVE. FINAL ACCEPTANCE OF THE WORK WILL BE MADE BY THE OWNER AFTER RECEIPT OF APPROVAL AND RECOMMENDATION OF ACCEPTANCE FROM EACH REPRESENTATIVE.

15. THE CONTRACTOR SHALL FURNISH A ONE YEAR WRITTEN GUARANTEE OF MATERIALS AND WORKMANSHIP FROM THE DATE OF SUBSTANTIAL COMPLETION.

16. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO REVIEW AND TO COORDINATE WITH THE MECHANICAL, FIRE PROTECTION AND PLUMBING DRAWINGS FOR DUCTS, LINES AND EQUIPMENT.

17. ALL EQUIPMENT MOUNTED ON ROOF FOR CONNECTION OF HVAC EQUIPMENT SHALL BE MOUNTED ON UNISTRUT STANDS UTILIZING APPROVED PITCH POCKETS, FLASHING, ETC.

18. ALL FINAL CONNECTIONS TO OWNER FURNISHED EQUIPMENT SHALL BE MADE BY THE CONTRACTOR.

19. COORDINATE WITH OTHER TRADES AS TO THE EXACT LOCATION OF THEIR RESPECTIVE EQUIPMENT.

SUPPLY POWER AND MAKE CONNECTION TO MOTORS AND EQUIPMENT REQUIRING ELECTRICAL CONNECTIONS AS INDICATED ON THE SINGLE LINE DIAGRAM, ELECTRICAL DRAWINGS, AND DRAWINGS OF OTHER TRADES. REVIEW THE DRAWINGS OF OTHER TRADES FOR CONTROL DIAGRAMS, SIZE AND LOCATION OF EQUIPMENT. DISCONNECT SWITCHES, STARTERS, WIRING, CONTROLS, AND CONDUIT FOR MECHANICAL AND PLUMBING OPERATIONS SHALL BE PROVIDED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING MANUFACTURER'S SHOP DRAWINGS PRIOR TO ROUGHING IN ALL CONDUIT TO THIS EQUIPMENT

20. EXACT METHOD AND LOCATION OF CONDUIT PENETRATION AND OPENINGS IN CONCRETE WALLS OR FLOORS OR STRUCTURAL STEEL MEMBERS SHALL BE AS DIRECTED BY THE STRUCTURAL ENGINEER. PERFORM CORING, SAWCUTTING, PATCHING, AND REFINISHING OF EXISTING WALLS AND SURFACES WHEREVER IT IS NECESSARY TO PENETRATE. OPENINGS SHALL BE SEALED IN AN APPROVED METHOD TO MEET THE FIRE RATING OF THE PARTICULAR WALL, FLOOR OR CEILING. EXACT METHOD AND LOCATIONS OF CONDUIT PENETRATIONS AND OPENINGS IN CONCRETE WALLS OR FLOORS SHALL BE UL APPROVED.

21. CONNECTIONS TO VIBRATING EQUIPMENT AND SEISMIC SEPARATIONS: LIQUID-TIGHT FLEXIBLE STEEL CONDUIT IN DRY INTERIOR LOCATIONS.

LIQUID TIGHT FLEXIBLE STEEL CONDUIT IN AREAS EXPOSED TO WEATHER, DAMP LOCATIONS, CONNECTIONS TO TRANSFORMER ENCLOSURES AND FINAL CONNECTIONS TO MOTORS.

PROVIDE SEPARATE INSULATED EQUIPMENT GROUNDING CONDUCTOR IN FLEXIBLE CONDUIT RUNS. MAXIMUM LENGTH SHALL BE SIX FEET UNLESS OTHERWISE NOTED.

23. ROUTE EXPOSED CONDUIT AND CONDUIT ABOVE ACCESSIBLE CEILING SPACES PARALLEL AND PERPENDICULAR TO WALLS AND ADJACENT PIPING. ARRANGE CONDUIT TO MAINTAIN HEADROOM AND TO PRESENT A NEAT APPEARANCE.

24. CONDUIT SHALL NOT BE INSTALLED IN ANY FLOOR SLAB. CONDUIT SHALL BE INSTALLED CONCEALED IN THE CEILING SPACE, CONCEALED IN WALLS, OR 18" BELOW BOTTOM SLAB ON GRADE UNLESS NOTED OTHERWISE.

25. THE CONTRACTOR SHALL STRATEGICALLY LOCATE BOXES, ETC., IN AN ACCESSIBLE CEILING SPACE OR PROVIDE AN ACCESS PANEL FOR INACCESSIBLE CEILING SYSTEMS.

26. COORDINATE REQUIRED ACCESS DOORS IN NON-ACCESSIBLE CEILINGS TO SUIT FIELD CONDITIONS. THE EXACT SIZES AND PHYSICAL LOCATIONS SHALL SUIT ACCESSIBILITY AND CONSTRUCTION CONDITIONS. ACCESS DOORS SHALL BE PROVIDED IN OTHER SECTIONS OF THE SPECIFICATIONS. ACCESS DOORS SHALL HAVE A FIRE RATING EQUAL TO THE CEILING ASSEMBLY IN WHICH THEY ARE INSTALLED.

27. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SAWCUTTING, TRENCHING, BACKFILLING, COMPACTION AND PATCHING OF CONCRETE AND ASPHALT AS REQUIRED TO PERFORM HIS WORK. ATTENTION IS CALLED TO THE FACT THAT THERE ARE EXISTING UNDERGROUND UTILITY LINES. THE CONTRACTOR SHALL USE EXTREME CAUTION WHEN TRENCHING FOR HIS WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER AND APPROVED REPAIR OF ANY AND ALL DAMAGES CAUSED BY HIM OR HIS WORK.

28. WHENEVER A DISCREPANCY IN QUANTITY OR SIZE OF CONDUIT, WIRE, EQUIPMENT DEVICES, CIRCUIT BREAKERS, GROUND FAULT PROTECTION SYSTEMS, ETC. (ALL MATERIALS), ARISES ON THE DRAWINGS OR SPECIFICATIONS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AND INSTALLING ALL MATERIAL AND SERVICES REQUIRED BY THE STRICTEST CONDITIONS NOTED ON THE DRAWINGS OR IN THE SPECIFICATIONS TO ENSURE COMPLETE AND OPERABLE SYSTEMS AS REQUIRED BY THE OWNER AND ARCHITECT/ENGINEER.

29. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY TYPE OF CEILING SYSTEMS AND TO FURNISH APPROVED LIGHTING FIXTURES OF THE TYPE REQUIRED FOR MOUNTING IN SUBJECT CEILING. WHERE FIXTURES ARE RECESSED IN PLASTER OR DRYWALL CEILINGS, THEY SHALL BE COMPLETE WITH NECESSARY MOUNTING HARDWARE AND PLASTER FRAMES.

30. ALL RECESSED LIGHTING FIXTURES, SPEAKERS, RECEPTACLES, SWITCHES, ETC., MOUNTED IN THE FIRE RATED CEILINGS OR WALLS SHALL BE ENCLOSED WITH AN APPROVED ENCLOSURE CARRYING THE SAME FIRE RATING AS THE CEILING OR WALL.

31. UTILITY PENETRATIONS OF ANY KIND IN FIRE AND SMOKE PARTITIONS AND CEILING ASSEMBLIES, SHALL BE FIRESTOPPED AND SEALED WITH AN APPROVED MATERIAL SECURELY INSTALLED.

STEEL ELECTRICAL OUTLET BOXES WHICH DO NOT EXCEED 16 SQUARE INCHES IN AREA. NEED NOT BE PROTECTED IN ONE HOUR OR TWO HOUR FIRE RATED WALLS, PARTITIONS, CEILINGS, OR AREA SEPARATION UNLESS THEY:

CONDITION.

OCCUR IN COMBINATION WITH OUTLET BOXES OF ANY SIZE SUCH THAT THE AGGREGATE AREA OF UNPROTECTED OUTLET BOXES EXCEEDS 100 SQUARE INCHES IN ANY 100 SQUARE FEET OF WALL AREA. IN THIS CASE, ONLY A SUFFICIENT NUMBER OF OUTLET BOXES NEED BE PROTECTED BY AN APPROVED MATERIAL OR DETAIL TO DECREASE THE AGGREGATE AREA OF UNPROTECTED UTILITY BOXES TO LESS THAN 100 SQUARE INCHES IN ANY 100 SQUARE FEET OF WALL.

STEEL ELECTRICAL OUTLET BOXES WHICH EXCEED 16 SQUARE INCHES IN AREA, AND ALL OTHER STEEL UTILITY OUTLET BOXES REGARDLESS OF SIZE, SHALL BE PROTECTED BY AN APPROVED FIRESTOP MATERIAL AS LISTED OR EQUAL.

BY ENCASEMENT.

FIRESTOPPING MATERIAL:

UTILITY AND ELECTRICAL OUTLETS OR BOXES SHALL BE SECURELY FASTENED TO THE STUD OF FRAMING OF THE WALL, PARTITION OR CEILING ASSEMBLY. THE OPENING IN THE GYPSUM BOARD FACING SHALL BE CUT SO THAT THE CLEARANCE BETWEEN THE BOX AND THE GYPSUM BOARD DOES NOT EXCEED 1/8 INCH. IN SMOKE WALLS OR PARTITIONS, THE 1/8 INCH CLEARANCE SHALL BE FILLED WITH AN APPROVED FIRE-RATED SEALANT.

OAKHURST, NJ

THE UNIT.

GENERAL NOTES (AS APPLICABLE)

22. EQUIPMENT OUTLETS, LIGHTING FIXTURES, CONDUIT, WIRE, AND CONNECTION METHODS IN HVAC AIR-PLENUMS SHALL BE APPROVED FOR USE IN PLENUMS AND SHALL CONFORM TO THE APPLICABLE LOCAL CODE.

> OCCUR ON OPPOSITE SIDES OF THE WALL WITHIN 24 INCH HORIZONTAL DISTANCE OF ONE ANOTHER. IN THIS CASE, ONLY ONE OUTLET BOX NEED TO PROTECTED BY AN APPROVED FIRESTOP MATERIAL OR DETAIL TO CORRECT THIS

> > MPP-1 MOLDABLE PUTTY PADS 3M CONTRACTOR PRODUCTS MINNEAPOLIS, MN

FSP FIRESTOP PUTTY PADS

HEVI-DUTY NELSON PRODUCTS TULSA, OK

FLAMESAFE FSP 1077 FIRESTOP PADS INTERNATIONAL PROTECTIVE COATINGS

STEEL UTILITY BOXES WHICH EXCEED 100 SQUARE INCHES IN AREA SHALL BE PROTECTED

32. ARCHITECTURAL REFLECTED CEILING PLANS INDICATING THE LOCATION OF LIGHTING FIXTURES SHALL TAKE PRECEDENCE OVER THE LOCATIONS OF SAME SHOWN ON THE ELECTRICAL DRAWINGS. INSTALL THE LIGHTING FIXTURES IN ANY GIVEN AREA TO AGREE WITH THE REFLECTED CEILING PLANS. DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT.

33. THE EXACT LOCATIONS AND MOUNTING HEIGHTS OF LIGHTING FIXTURES LOCATED IN MECHANICAL EQUIPMENT SPACES AND PENTHOUSES SHALL BE COORDINATED IN THE FIELD BEFORE INSTALLATION TO AVOID INTERFERENCE WITH DUCTS, PIPING, AND OTHER MECHANICAL EQUIPMENT. WHEN LOCATIONS AND MOUNTING HEIGHTS ARE DETERMINED, OBTAIN APPROVAL FROM THE ARCHITECT.

34. LIGHT FIXTURE SUPPORT:

SUSPENDED ACOUSTICAL CEILINGS:

HEAVY DUTY GRID SYSTEM: FLUSH OR RECESSED LIGHT FIXTURES WEIGHING LESS THAN 56 POUNDS MAY BE SUPPORTED DIRECTLY ON THE RUNNERS OF A HEAVY DUTY GRID SYSTEM. IN ADDITION, THEY SHALL HAVE A MINIMUM OF TWO 12 GAUGE SLACK SAFETY WIRES ATTACHED TO THE FIXTURE AT DIAGONAL

CORNERS AND ANCHORED TO THE STRUCTURE ABOVE. ALL 4 FOOT BY 4 FOOT LIGHT FIXTURES SHALL HAVE SLACK SAFETY WIRES AT EACH CORNER.

ALL FLUSH OR RECESSED LIGHT FIXTURES WEIGHING 56 POUNDS OR MORE SHALL BE INDEPENDENTLY SUPPORTED BY NOT LESS THAN FOUR TAUT 12 GAUGE WIRES EACH ATTACHED TO THE FIXTURE AND TO THE STRUCTURE ABOVE REGARDLESS OF THE TYPE OF CEILING GRID SYSTEM USED. THE FOUR TAUT 12 GAUGES WIRES INCLUDING THEIR ATTACHMENT TO THE STRUCTURE ABOVE SHALL BE CAPABLE OF SUPPORTING FOUR TIMES THE WEIGHT OF

INTERMEDIATE DUTY GRID SYSTEM: ALL FIXTURES SUPPORTED ON INTERMEDIATE DUTY GRID SYSTEMS SHALL BE INDEPENDENTLY SUPPORTED BY NOT LESS THAN FOUR TAUT 12 GAUGE WIRES EACH ATTACHED TO THE FIXTURE AND TO THE STRUCTURE ABOVE.

SURFACE MOUNTED FIXTURES: SUPPORT SURFACE MOUNTED LIGHT FIXTURES BY AT LEAST TWO POSITIVE DEVICES WHICH SURROUND THE CEILING RUNNER AND WHICH ARE EACH SUPPORTED FROM THE STRUCTURE ABOVE BY A 12 GAUGE WIRE. SPRING CLIPS OR CLAMPS THAT CONNECT ONLY TO THE RUNNER ARE NOT ACCEPTABLE. PROVIDE ADDITIONAL SUPPORTS WHEN LIGHT FIXTURES ARE EIGHT FEET OR LONGER.

PENDANT MOUNTED FIXTURES: SUPPORT PENDANT MOUNTED LIGHT FIXTURES DIRECTLY FROM THE STRUCTURE ABOVE WITH HANGER WIRES OR CABLES PASSING THROUGH EACH PENDANT HANGER, AND CAPABLE OF SUPPORTING FOUR TIMES THE WEIGHT OF THE FIXTURE.

SUSPENDED DRYWALL CEILINGS

ALL RECESSED OR DROP-IN LIGHT FIXTURES SHALL BE SUPPORTED DIRECTLY BY MAIN RUNNERS OR BY SUPPLEMENTAL FRAMING WHICH IS SUPPORTED BY MAIN RUNNERS. THE CONTRACTOR SHALL COORDINATE HIS WORK WITH THE CEILING CONTRACTOR TO PROVIDE APPROPRIATE FRAMING AND LOCATION FOR FIXTURES.

SURFACE MOUNTED FIXTURES SHALL BE ATTACHED TO A MAIN RUNNER WITH A POSITIVE CLAMPING DEVICE MADE OF MATERIAL WITH A MINIMUM OF 14 GAUGE, ROTATIONAL SPRING CATCHES SHALL NOT BE ALLOWED.

EXISTING CEILING FIXTURES REMOVED TO ACCOMPLISH THE WORK SHALL BE REINSTALLED AS FOR NEW WORK.

35. REFER TO SINGLE LINE DIAGRAM AND FEEDER SCHEDULES FOR CONDUIT AND CONDUCTOR SIZE TO PANELS, TRANSFORMERS, MECHANICAL AND PLUMBING EQUIPMENT, ETC. CONDUIT RUNS MAY NOT BE SHOWN ON DRAWINGS, BUT ARE PART OF THIS CONTRACT

36. STRAIGHT FEEDER, BRANCH CIRCUIT, AND CONDUIT RUNS SHALL BE PROVIDED WITH SUFFICIENT PULL BOXES OR JUNCTION BOXES TO LIMIT THE MAXIMUM LENGTH OF ANY SINGLE CABLE PULL TO 100 FEET. PULL BOXES SHALL BE SIZED PER CODE OR AS INDICATED ON DRAWINGS. LOCATIONS SHALL BE DETERMINED IN THE FIELD OR AS INDICATED ON THE DRAWINGS

37. MAXIMUM NUMBER OF CONDUCTORS IN OUTLET OR JUNCTION BOXES SHALL CONFORM TO THE 2019 CALIFORNIA ELECTRICAL CODE, ARTICLE 314.16(A) BUT IN NO CASE SHALL CONTAIN MORE THAN THE FOLLOWING NUMBER OF #12 AWG CONDUCTORS FOR THE SIZE OF BOX INDICATED. THE MINIMUM SIZE OUTLET OR JUNCTION BOX PERMITTED IN A WALL IS FOUR INCHES SQUARE BY 1-1/2 INCHES DEEP.

SQ. BY 1-1/2'D	=	9	CONDUCTORS
SQ. BY 2-1/8" D	=	13	CONDUCTORS
SQ. BY 1-1/2" D	=	11	CONDUCTORS
SQ. BY 2-1/8" D	=	18	CONDUCTORS

ALL OUTLET BOXES CONTAINING MORE THAN ONE DEVICE SHALL BE GANGED. TWO DEVICES DOUBLE GANGED. MINIMUM.

38. WHERE MULTI-HOMERUNS ARE INDICATED ON DRAWINGS INDICATING THE SAME PANELBOARD CIRCUIT NUMBER, PROVIDE JUNCTION BOX ABOVE ACCESSIBLE CEILING AND ROUTE ONE SET OF WIRES TO CIRCUIT BREAKERS.

39. THE NUMERALS SHOWN AT TOP OF LIGHT FIXTURE IDENTIFICATION SYMBOLS INDICATING THE NUMBER OF LIGHT FIXTURES REQUIRED SHALL NOT BE USED BY THE CONTRACTOR FOR HIS QUANTITY TAKE-OFF AT BIDDING, NOR FOR DETERMINATION OF HOW MANY FIXTURES WILL BE INSTALLED. THE CONTRACTOR SHALL INSTALL A LIGHT FIXTURE WHEREVER A FIXTURE OUTLET IS SHOWN ON THE DRAWINGS.

40. RECESSED PANELS AND CABINETS SHALL HAVE FIVE SPARE 3/4 INCH CONDUITS STUBBED UP INTO AN ACCESSIBLE CEILING SPACE AND CAPPED UNLESS OTHERWISE NOTED.

41. IDENTIFICATION NAMEPLATES SHALL BE MICARTA 1/8 INCH THICK AND OF APPROVED SIZE WITH BEVELED EDGES AND ENGRAVED WHITE LETTERS A MINIMUM OF 1/4 INCH HIGH ON BLACK BACKGROUND. NAMEPLATES SHALL BE PROVIDED FOR ALL CIRCUITS IN THE SERVICE DISTRIBUTION AND POWER DISTRIBUTION SWITCHBOARDS OR PANELBOARDS, MOTOR CONTROL CENTERS, LIGHTING DISTRIBUTION PANELBOARDS, SEPARATELY MOUNTED STARTING SWITCHES, DISCONNECTING SWITCHES, MOTOR CONTROL PUSHBUTTON STATIONS, SELECTOR SWITCHES, TRANSFORMERS, TERMINAL CABINETS, TELEPHONE CABINETS, ETC. ALL NAMEPLATES SHALL BE ATTACHED WITH SCREWS. PULL BOXES, JUNCTION BOXES, AND DEVICE BOXES SHALL BE MARKED WITH A PERMANENT MARKER.

42. THE EXACT LOCATION OF ALL ELECTRICAL DEVICES AND EQUIPMENT SHALL BE COORDINATED WITH THE ARCHITECTURAL ELEVATIONS, DETAILS, OR SECTIONS PRIOR TO INSTALLATION. ALL ELECTRICAL DEVICES AND EQUIPMENT SHALL BE RECESSED IN WALLS UNLESS OTHERWISE NOTED. OUTLETS NOT INDICATED ON ARCHITECTURAL ELEVATIONS SHALL BE COORDINATED WITH THE ARCHITECT PRIOR TO ROUGH-IN. UNLESS OTHERWISE NOTED, MOUNT ELECTRICAL DEVICES AT THE FOLLOWING HEIGHTS:

WALL SWITCH	+4'-0"	SET VERTICALLY TO TOP OF OUTLET BO
CONVENIENCE RECEPTACLE	+1'-6"	SET VERTICALLY TO CENTER OF DEVICE
TELEPHONE/DATA OUTLETS	+1'-6"	SET VERTICALLY TO CENTER OF DEVICE
OUTLETS AT COUNTERS	+6"	ABOVE COUNTERS WITHOUT
		SPLASHES OR CENTERED IN
		SPLASH SET HORIZONTALLY

GENERAL USE ELECTRICAL RECEPTACLE, SWITCH AND CONTROL OUTLETS SHALL BE LOCATED NO MORE THAN 48 INCHES TO THE TOP OF THE OUTLET BOX NOR LESS THAN 15 INCHES TO THE BOTTOM OF THE OUTLET BOX ABOVE THE FINISHED FLOOR. [CBC 11B-308.1, 11B-308.2]

REVIEW ARCHITECTURAL ELEVATIONS OF CASEWORK. OUTLETS MOUNTED ABOVE OR BELOW, OR ADJACENT TO CASEWORK SHALL BE COORDINATED WITH THE ARCHITECTURAL DRAWINGS, PRIOR TO FINAL ROUGH-IN. ELECTRICAL DRAWINGS SHALL GOVERN NUMBER AND TYPE OF OUTLETS. HOWEVER, LOCATIONS SHALL BE AS INDICATED ON ARCHITECTURAL ELEVATIONS. PROVIDE CONDUIT, WIRES, AND OUTLETS FOR WORK REQUIRED IN CASEWORK INSTALLATIONS. REFERENCE ARCHITECTURAL DETAILS FOR METHOD OF ROUTING CONDUIT WITHIN CASEWORK CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CUT-OUTS IN TILE OR COUNTER SPLASHES WHERE RECEPTACLES, OUTLETS, ETC., OCCUR. PROVIDE BOX EXTENSIONS THROUGH ALL CASEWORK. FINISH FLUSH WITH FACE OF SPLASH, CABINET, ETC.

MOUNTING HEIGHTS OF ALL DEVICES AND EQUIPMENT ARE FROM FINISHED FLOOR TO CENTER OF DEVICES AND EQUIPMENT UNLESS OTHERWISE NOTED. BOXES INSTALLED IN LOCATIONS NOT APPROVED BY THE ARCHITECT SHALL BE RELOCATED AS DIRECTED BY THE ARCHITECT AT NO ADDITIONAL COST TO THE OWNER.

43. DRAWINGS ARE DIAGRAMMATIC ONLY. ROUTING OF RACEWAYS SHALL BE AT THE OPTION OF THE CONTRACTOR UNLESS OTHERWISE NOTED AND SHALL BE COORDINATED WITH OTHER SECTIONS. DO NOT SCALE THE ELECTRICAL DRAWINGS FOR LOCATIONS OF ANY ELECTRICAL, ARCHITECTURAL, STRUCTURAL, CIVIL, OR MECHANICAL ITEMS OR FEATURES.

44. THE EQUIPMENT GROUNDING CONDUCTOR WHETHER SHOWN OR NOT ON CONDUIT RUNS SHALL RUN CONTINUOUS FROM PANEL TO LAST OUTLET. THIS WIRE SHALL BE PIGTAILED IN EACH OUTLET FOR CONNECTION TO BOX AND DEVICE SO THAT IF DEVICE IS REMOVED, GROUND WILL NOT BE INTERRUPTED. ALL EQUIPMENT GROUNDING CONDUCTORS SHALL BE INSULATED GREEN CONDUCTORS - ALTERNATE METHODS OF IDENTIFICATION SHALL NOT BE USED. CONTRACTOR SHALL NOTIFY ELECTRICAL ENGINEER TO EXAMINE CONDUCTOR INSTALLATION PRIOR TO INSTALLATION OF DEVICES.

45. REFERENCE ARCHITECTURE AND STRUCTURAL DRAWINGS FOR HOUSEKEEPING PADS.

46. FURNISH AND INSTALL POWER DISTRIBUTION PANELBOARDS AS INDICATED ON THE DRAWINGS. PANELBOARDS SHALL COMPLY WITH NEMA STANDARD FOR PANELBOARDS AND FEDERAL SPECIFICATION W-P-115A. PANELBOARDS SHALL BE COMPLETE WITH COPPER BUS BARS AND 40 DEGREE CELSIUS THERMAL MAGNETIC BOLT-ON TYPE CIRCUIT BREAKERS AS INDICATED ON DRAWINGS. PANELBOARDS SHALL BE SQUARE D OR EQUAL BY SIEMENS, ITE, WESTINGHOUSE, OR GENERAL ELECTRIC.

47. RECEPTACLES SHALL BE SPECIFICATION GRADE, 20 AMP, NEMA 5-20R GROUNDING TYPE HUBBELL #8300, OR EQUAL BY PASS & SEYMOUR OR GENERAL ELECTRIC. COLOR SHALL BE SELECTED BY ARCHITECT.

48. SWITCHES SHALL BE 20 AMP, 120/277 VOLT RATED SILENT TYPE SPECIFICATION GRADE HUBBELL OR EQUAL BY PASS & SEYMOUR OR GENERAL ELECTRIC. COLOR SHALL BE SELECTED BY ARCHITECT.

49. DEVICE PLATES SHALL BE NYLON FOR THE NUMBER OF GANGS AND TYPE OF OPENINGS NECESSARY, HUBBELL OR EQUAL BY PASS & SEYMOUR OR GENERAL ELECTRIC. COLOR SHALL BE SELECTED BY ARCHITECT. PLATES SHALL BE ENGRAVED WITH PANEL AND CIRCUIT NUMBER.

50. RIGID GALVANIZED STEEL CONDUIT SHALL BE FULL WEIGHT TREADED TYPE ALUMINUM OR STEEL. ELECTRICAL METALLIC TUBING (EMT) MAY BE USED IN WALLS OR CEILING SPACES WHERE NOT SUBJECT TO MECHANICAL DAMAGE. PVC SCHEDULE 40 MAY BE INSTALLED BENEATH SLAB OR BELOW GRADE, FLEXIBLE STEEL CONDUIT MAY BE USED AT FIXTURE AND OUTLET CONNECTIONS WITH NO RUNS LONGER THAN SIX FEET. AN EQUIPMENT GROUNDING CONDUCTOR SHALL BE PROVIDED IN ALL CONDUIT RUNS.

51. RIGID GALVANIZED STEEL CONDUIT FITTINGS SHALL BE THREADED AND THOROUGHLY GALVANIZED. ELECTRICAL METALLIC TUBING (EMT) CONDUIT FITTINGS SHALL BE STEEL, RAINTIGHT THREADLESS COMPRESSION TYPE. DIE CAST, SET SCREW, OR INDENTER TYPES ARE NOT ACCEPTABLE. FLEXIBLE STEEL CONDUIT FITTINGS SHALL BE MALLEABLE IRON CLAMP, SQUEEZE TYPE OR STEEL TWIST-IN TYPE WITH INSULATED THROAT. SET SCREW TYPE IS NOT ACCEPTABLE.

52. FOR SMALL AC MOTORS NOT HAVING BUILT-IN THERMAL OVERLOAD PROTECTION, PROVIDE MANUAL MOTOR STARTERS WITH OVERLOAD HEATER ELEMENTS SIZED TO THE NAMEPLATE CURRENT RATING OF THE MOTOR. SMALL AC MOTORS WITH BUILT-IN THERMAL OVERLOAD PROTECTION, PROVIDE A HORSEPOWER RATED TOGGLE TYPE DISCONNECT SWITCH.

53. SAFETY SWITCHES SHALL BE HEAVY DUTY NEMA TYPE HD BY SQUARE D, SIEMENS, GENERAL ELECTRIC OR WESTINGHOUSE. SWITCHES SHALL BE RATED FOR THE NUMBER OF POLES, VOLTAGE, CURRENT AND HORSEPOWER RATING AS REQUIRED. PROVIDE FUSE PROTECTION BASED ON THE MOTOR NAMEPLATE RATINGS.

54. TERMINAL CABINETS SHALL BE GALVANIZED CODE SHEET STEEL. FLUSH OR SURFACE MOUNTED AS INDICATED ON THE DRAWINGS, OF IDENTICAL MANUFACTURE AS BRANCH CIRCUIT PANELS. FLUSH MOUNTED CABINETS SHALL BE PRIMED AND PAINTED. FINISH COLOR AS SELECTED BY ARCHITECT.

55. ALL CONDUCTORS SHALL BE COPPER #12 AWG MINIMUM SIZE, TYPE THHN/THWN THERMOPLASTIC, 600 VOLT, 75 DEGREES CELSIUS WET AND 90 DEGREES CELSIUS DRY AND UL LISTED UNLESS NOTED OTHERWISE. CONDUCTORS #12 AWG AND SMALLER SHALL BE SOLID. CONDUCTORS # 10 AWG AND LARGER SHALL BE STRANDED.

56. JUNCTION AND PULL BOXES: FOR INTERIOR DRY LOCATIONS, BOXES SHALL BE GALVANIZED ONE-PIECE, DRAWN STEEL, KNOCKOUT TYPE WITH REMOVABLE MACHINE SCREW SECURED COVERS. FOR OUTSIDE, DAMP, OR SURFACE LOCATIONS, BOXES SHALL BE HEAVY CAST ALUMINUM OR CAST IRON WITH REMOVABLE, GASKETED, NON-FERROUS MACHINE SCREW SECURED COVERS, BOXES SHALL BE SIZED FOR THE NUMBER AND SIZES OF CONDUCTORS AND CONDUIT ENTERING THE BOX AND EQUIPPED WITH PLASTER EXTENSION RINGS WHERE REQUIRED. BOXES SHALL BE LABELED TO INDICATE PANEL AND CIRCUIT NUMBER, OR TYPE OF SIGNAL OR COMMUNICATIONS SYSTEM.

57. WHERE LIGHTING FIXTURES REQUIRE THE USE OF ACRYLIC PLASTIC LENSES. THEY SHALL BE 100 PERCENT VIRGIN ACRYLIC THERMOPLASTIC NOT LESS THAN 0.125 INCHES THICK WITH AN UNPENETRATED DEPTH OF NOT LESS THAN 0.045 INCHES EQUAL TO KSH-K12 UNLESS NOTED OTHERWISE.

58. INSTALLATION OF THE FIRE ALARM SYSTEM SHALL NOT BE STARTED UNTIL DETAILED PLANS, SPECIFICATIONS AND ENGINEERING CALCULATIONS HAVE BEEN ACCEPTED AND SIGNED BY THE ARCHITECT IN GENERAL CHARGE OF DESIGN AND THE SIGNATURE OF THE ARCHITECT OR PROFESSIONAL ENGINEER WHO HAS BEEN DELEGATED RESPONSIBILITY COVERING THE WORK SHOWN ON A PARTICULAR PLAN OR SPECIFICATION, AND APPROVED BY FIRE MARSHALL THE FIRE ALARM SYSTEM INDICATED IN THESE DRAWINGS SHALL BE USED FOR BIDDING PURPOSES ONLY AND ARE NOT FOR CONSTRUCTION. THE CONTRACTOR SHALL SUBMIT FIRE ALARM SYSTEM SHOP DRAWINGS TO FIRE MARSHALL FOR APPROVAL PRIOR TO INSTALLATION. SYSTEM SHALL MEET THE REQUIREMENTS OF THE DRAWINGS AND SPECIFICATIONS.

59. EVERY CIRCUIT AND CIRCUIT MODIFICATION SHALL BE LEGIBLY IDENTIFIED AS TO ITS CLEAR, EVIDENT, AND SPECIFIC PURPOSE OR USE. THE IDENTIFICATION SHALL INCLUDE SUFFICIENT DETAIL TO ALLOW EACH CIRCUIT TO BE DISTINGUISHED FROM ALL OTHERS. THE IDENTIFICATION SHALL BE INCLUDED IN A CIRCUIT DIRECTORY THAT IS LOCATED ON THE FACE OR INSIDE OF THE PANEL DOOR IN THE CASE OF A PANELBOARD, AND LOCATED AT EACH SWITCH OR CIRCUIT BREAKER IN A SWITCHBOARD.

60. ALL ELECTRICAL EQUIPMENT SHALL BE LISTED OR CERTIFIED BY THE AHJ RECOGNIZED ELECTRICAL TESTING LABORATORY OR APPROVED BY THE DEPARTMENT. 61. ALL SERVICE, FEEDERS OR BRANCH CIRCUITS SUPPLYING A BUILDING SHALL HAVE COMMON GROUNDING ELECTRODE SYSTEM, 250.58. 62. ALL GROUNDING ELECTRODES THAT ARE PRESENT AT EACH BUILDING OR STRUCTURE

SHALL BE BONDED TOGETHER, 250.122. 63. ALL EQUIPMENT FASTENED IN PLACE OR CONNECTED BY PERMANENT WIRING METHOD SHALL BE GROUNDED, 250.110 & 112.

GENERAL NOTE:

COORDINATE WORK WITH ALL TRADES AT THE SITE. COSTS TO INSTALL WORK TO ACCOMPLISH SAID COORDINATION WHICH DIFFERS FROM THE WORK AS SHOWN ON THE PLANS SHALL BE INCURRED BY THE CONTRACTOR. ANY DISCREPANCIES, AMBIGUITIES OR CONFLICTS IN THE DRAWINGS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER OF RECORD DURING BID TIME FOR CLARIFICATION. ANY SUCH CONFLICTS NOT CLARIFIED PRIOR TO BID SHALL BE SUBJECT TO THE INTERPRETATION OF THE ENGINEER OF RECORD AT NO ADDITIONAL COST TO THE OWNER OR ENGINEER OF RECORD.

ELECTRICAL SHEET INDEX

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EXP. 06-30-2024

SCTRICA



PROJECT #	-	
NUMBER	DESCRIPTION	DATE

DRAWN BY:



DRAWINGS PREPARED BY:

TITLE:

ELECTRICAL GENERAL NOTES

SHEET:

FO

ABBREVIATIONS

ADDREVIATIONS					
А	AMPERE				
AC	ABOVE COUNTER				
AFC	AVAILABLE FAULT CURRENT				
AFF					
AHJ AIC	AUTHORITY HAVING JURISDICTION AMPERE INTERRUPTING CURRENT				
AL	ALUMINUM				
ATS	AUTOMATIC TRANSFER SWITCH				
AWG	AMERICAN WIRE GAGE				
BRKR C	BREAKER CONDUIT				
CATV					
CMIL	CIRCULAR MIL				
CU	COPPER				
DISC EC					
EGC					
	EMERGENCY				
EMT	ELECTRICAL METALLIC TUBING				
ENT	ELECTRICAL NONMETALLIC TUBING EXISTING				
FLC					
G	GROUND				
GEC	GROUNDING ELECTRODE CONDUCTOR				
GFCI					
GFPE HACR	GROUND-FAULT PROTECTION OF EQUIPMENT HEATING, AIR CONDITIONING, AND REFRIGERATION				
HID	HIGH INTENSITY DISCHARGE				
HP	HORSEPOWER				
HVAC	HEATING, VENTILATION AND AIR CONDITIONING				
HZ IBT	HERTZ (CYCLE PER SECOND) INTERNATIONAL BONDING TERMINATION				
IG	ISOLATED GROUND				
IMC	INTERMEDIATE METAL CONDUIT				
K	KELVIN				
KCMIL KVA	ONE THOUSAND CIRCULAR MILS KILOVOLT-AMPERES				
KVA KVAR	KILOVOLT-AMPERES KILOVOLT-AMPERE REACTIVE				
KW	KILOWATT				
LED	LIGHT-EMITTING DIODE				
LRC	LOCKED-ROTOR CURRENT				
MCB MG SET	MAIN CIRCUIT BREAKER MOTOR-GENERATOR SET				
MLO	MAIN LUGS ONLY				
MW	MEGAWATTS				
NEC	NATIONAL ELECTRICAL CODE (NFPA 70)				
NEMA	NATIONAL ELECTRICAL MANUFACTURER ASSOCIATION NATIONAL FIRE PROTECTION ASSOCIATION				
NFPA NL	NGHTLIGHT				
P	POLE				
PART	PARTIAL CIRCUIT				
PC	PHOTOCELL				
PF PNLBD	POWER FACTOR PANELBOARD				
PoE	POWER OVER ETHERNET				
RMC	RIGID METAL CONDUIT				
RNC	RIGID NONMETALLIC CONDUIT				
RR RTU	RESTROOM ROOF TOP UNIT				
SEC	SECTION				
SPD	SURGE-PROTECTION DEVICE				
SWD	SWITCHING DUTY				
TR TS	TAMPER-RESISTANT TIMESWITCH				
TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSOR				
TYP	TYPICAL				
UL	UNDERWRITERS LABORATORIES				
UNO UPS	UNLESS NOTED OTHERWISE UNINTERRUPTIBLE POWER SUPPLY				
USB	UNIVERSAL SERIAL BUS				
V	VOLT				
VA	VOLT-AMPERE				
V AC	VOLTS ALTERNATING CURRENT				
V AR VOM	VOLTS-AMPERE REACTIVE VOLT-OHM-MULTIMETER				
Ŵ	WATT				
W-HR	WATT-HOUR				
WP	WEATHERPROOF				
WPT WPTE	WIRELESS POWER TRANSFER WIRELESS POWER TRANSFER EQUIPMENT				
WR	WEATHER RESISTANT				
XFMR	TRANSFORMER				
ABBREVIATI	ONS OF CABLES				
AC	ARMORED CABLE				
CATV	COAXIAL GENERAL-PURPOSE CABLE				
MC	META-CLAD CABLE				
SE	SERVICE-ENTRANCE CABLE				
THW THHN	THERMOPLASTIC, HEAT AND MOISTURE RESISTANT CABLE THERMOPLASTIC, HEAT RESISTANT CABLE, NYLON JACKET				
	OUTER SHEATH				
тннw	THERMOPLASTIC, HEAT AND MOISTURE RESISTANT CABLE				
THWN	THERMOPLASTIC, MOISTURE AND HEAT RESISTANT CABLE,				
	NYLON JACKET OUTER SHEATH				

ELECTRICAL POWER GENERAL NOTES

A. REMOVE ALL UNUSED CABLING, WIRE AND CONDUIT IN THIS SPACE. TERMINATE CONDUITS OUTSIDE ELECTRICAL ROOM WITH A JUNCTION BOX. TURN BREAKER OFF AND UPDATE PANEL DIRECTORY TO INDICATE SPARE BREAKER AND DATE OF CHANGE.

B. COORDINATE LOCATIONS OF ALL DEVICES AND JUNCTION BOXES WITH THE EQUIPMENT INSTALLER.

C. CONTRACTOR SHALL NOT INSTALL MORE THAN THREE CIRCUITS (3 PHASE WIRES, 1-NEUTRAL + 1-GROUND) IN A COMMON CONDUIT, EXCEPT WHERE SPECIFICALLY NOTED AND ALLOWED. WHERE MORE THAN THREE CURRENT CARRYING CONDUCTORS (EXAMPLE: 3 PHASE WIRES + 1 CURRENT CARRYING NEUTRAL CONDUCTOR) ARE INSTALLED IN A COMMON CONDUIT, THE AMPACITY OF ALL CURRENT-CARRYING CONDUCTORS SHALL BE DERATED PER 2017 NEC ARTICLE 310-15 (B)(2)(a).

EXAMPLE: (6)-20AMP CKTS WITH 8 CURRENT CARRYING WIRES IN A COMMON CONDUIT MUST USE MINIMUM #10 WIRE 70% X 35A = 24.5 AMPS. PROVIDE COMMON TRIP BREAKERS FOR MULTIWIRE CIRCUITS PER 2017 ARTICLE 210.4 (B).

D. ALL WORK PERFORMED IN THE BUILDING SHALL COMPLY WITH BUILDING MANAGEMENT CONTRACTOR RULES AND REGULATIONS.

E. ALL ELECTRICAL DEVICES, PENETRATIONS AND EQUIPMENT LOCATED WITHIN IDENTIFIED CLASSIFIED HAZARDOUS SPACES/AREAS SHALL BE PROVIDED AND INSTALLED PER SPECIFIED NEC CLASS & DIVISION SPACE SPECIFICATIONS AND REQUIREMENTS (CLASS 1, DIVISION 2 SPACE).

ELECTRICAL GENERAL NOTES

APPLIES TO ALL SHEETS:

B. ELECTRICAL PANEL SCHEDULES MUST BE LABELED ACCORDING TO THE DRAWINGS C. ELECTRICAL PANEL SCHEDULES MUST BE COMPUTER GENERATED OR TYPEWRITTEN

TO INCLUDE OFFICE AREA SERVED AND PLACED ON THE ELECTRICAL PANEL COVER.

D. ALL ELECTRICAL BOXES LOCATED ABOVE THE PLENUM MUST HAVE A COVER ON THEM, TO INCULDE J-BOX, GUTTER BOXES, ETC.

F. PHONE/DATA CABLE SHALL BE INSTALLED IN A NEAT AND PROFESSIONAL APPEARANCE AND BE LABELED WITH THE EQUIPMENT IT FEEDS, WHERE THE RUN STARTS AND FINISHES AND THE VENDOR RESPONSIBLE FOR THE INSTALLATION.

H. IT SHALL BE NOTED THAT ALL CIRCUITS WITHIN THE SUITE SHALL BE CIRCUIT TRACED TO ENSURE NONE ARE FED FROM A PANEL THAT IS BEING METERED BY ANOTHER TENANT.

I. PROVIDE IECC COMPLIANCE CALCULATION/REPORT AS PART OF THIS SUBMITTAL FOR PERMIT.

J. CONTRACTOR SHALL REFERENCE AND FOLLOW ALL BUILDING RULES AND REGULATIONS.

K. THE SPACE EQUAL TO THE WIDTH AND DEPTH FOOTPRINT OF ELECTRICAL SERVICE EQUIPMENT INCLUDING SWITCHBOARDS, PANELBOARDS AND METERING EQUIPMENT MUST BE DEDICATED TO THE ELECTRICAL INSTALLTION EXTENDING FROM THE FLOOR TO A HEIGHT 6 FEET ABOVE THE EQUIPMENT. NO FOREIGN SYSTEMS, PIPING OR DUCTS ARE PERMITTED IN THIS AREA.

L. PERSONNEL DOORS IN ELECTRICAL ROOMS SHALL BE EQUIPPED WITH PANIC BARS, PRESSURE PLATES OR OTHER DEVICES THAT ARE NORMALLY LATCHED BUT OPEN UNDER SIMPLE PRESSURE. COORDINATE WITH ARCHITECT AND HARDWARE VENDOR.

ELECTRICAL LIGHTING GENERAL NOTES

FIXTURES. SEE GENERAL LIGHTING NOTE (LIGHTING FIXTURE SCHEDULE). C. CONNECT ALL EXIT LIGHTS TO UN-SWITCHED POWER AHEAD OF ALL LIGHT SWITCHES AND LIGHTING CONTROL PANEL. EXIT LIGHTS ARE SWITCHED AT PANEL ONLY.

D. EXISTING FIXTURES: EXISTING FIXTURES INDICATED TO BE RE-USED SHALL BE CLEANED AND RE-LAMPED. E.C. TO EXAMINE CONDITION OF EXISTING BALLASTS, REPLACE IF NOISY AND/OR INOPERATIVE. ALL BALLASTS DATED BEFORE 1976 ARE PRESUMED TO CONTAIN PCB AND SHALL BE REMOVED BY E.C. DISPOSE OF SUCH BALLASTS IN STRICT COMPLIANCE WITH APPLICABLE FEDERAL AND STATE LAWS AND LOCAL ORDINANCES.

FIXTURE NOT INDICATED FOR RE-USE SHALL BE DELIVERED TO A LOCATION TO BE SPECIFIED BY OWNER. DISPOSE OF SUCH FIXTURES IF NOT NEEDED BY OWNER.

E. NONE

F. ALL WORK PERFORMED IN THE BUILDING SHALL COMPLY WITH BUILDING MANAGEMENT CONTRACTOR RULES AND REGULATIONS.

G. CONTRACTOR SHALL REFERENCE AND FOLLOW ALL BUILDING RULES AND REGULATIONS.

CLASSIFIED HAZARDOUS SPACES/AREAS SHALL BE PROVIDED AND INSTALLED PER SPECIFIED NEC CLASS & DIVISION SPACE SPECIFICATIONS AND REQUIREMENTS (CLASS 1, DIVISION 2 SPACE).

FIRE ALARM SYSTEM NOTES:

FIRE ALARM SYSTEM CONSTRUCTION DOCUMENTS FOR THE SCOPE OF WORK INDICATED IN THIS PROJECT SHALL BE SUBMITTED, CA FOR APPROVAL PRIOR TO COMMENCING FIRE ALARM WORK AND THE INSTALLATION MUST BE APPROVED BY THE LOCAL AUTHORITY HAVING JURISDICTION AFTER COMPLETION.

1. FOR THE SPACE SHOWN, PROVIDE A NEW, PERMANENT COMPLETE FIRE ALARM SYSTEM AND SEQUENCE OF OPERATION. COORDINATE WITH MECHANICAL AND PLUMBING DRAWINGS. REUSE ALL EXISTING DEVICES WHERE PRACTICAL AND PROVIDE NEW DEVICES MATCHING EXISTING DEVICES WHERE NECESSARY. COORDINATE DEVICE LOCATIONS WITH ARCHITECTURAL DRAWINGS. SUBMIT SHOP DRAWINGS AND SEQUENCE OF OPERATIONS TO ENGINEER FOR REVIEW.

2. ALL 120V. CIRCUITS REQUIRED FOR THE OPERATION OF THE FIRE ALARM SYSTEM SHALL BE INCLUDED. LOCATIONS OF ALL PANELS AND BOOSTERS SHALL BE COORDINATED WITH ARCHITECT. CONTRACTOR SHALL TEST THE SYSTEM IN THE PRESENCE OF LOCAL AUTHORITIES AND MAKE ALL REQUIRED MODIFICATIONS AND ADDITIONS TO THEIR DESIGN AT NO ADDITIONAL COST.

3. ALL WORK PERFORMED IN THE BUILDING SHALL COMPLY WITH BUILDING MANAGEMENT CONTRACTOR RULES AND REGULATIONS.

NOTE: GENERAL NOTES, LEGEND, DETAILS SHOWN AS APPLICABLE

A. ALL ABONDONED CABLES AND CONDUIT MUST BE REMOVED BACK TO SOURCE.

E. ALL FLOOR PENETRATIONS MUST BE PROPERLY SEALED.

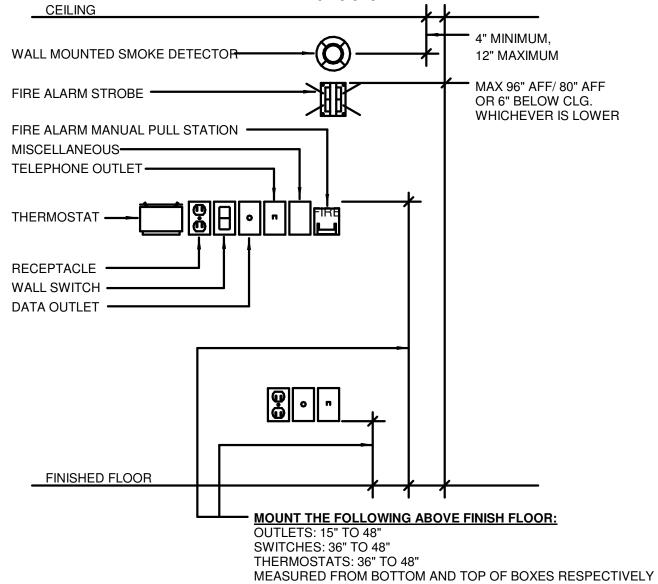
G. FLEXIBLE METAL CONDUIT IS **NOT** PERMITTED BEYOND **<u>15 FEET</u> IN LENGTH.**

A. REFER TO ARCH, REFLECTED CEILING PLAN FOR EXACT LOCATION OF LIGHTING FIXTURES. VERIFY FIXTURE AND CEILING COMPATIBILITY PRIOR TO ORDERING FIXTURES.

B. FURNISH AND INSTALL SECURITY CLIPS ON ALL FOUR SIDES OF 2'X4', 2'X2' AND 1'X4' RECESSED

H. ALL ELECTRICAL DEVICES, PENETRATIONS AND EQUIPMENT LOCATED WITHIN IDENTIFIED

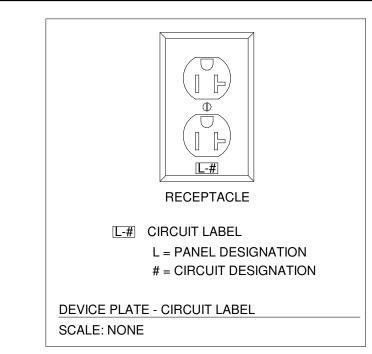
PANEL CIRCUIT DIRECTORY TO COMPLY WITH SECTION 408.4, CEC W.P. COVER OF OUTLETS TO COMPLY WITH SECTION 406.8 (B)(1), CEC



MOUNTING HEIGHT DETAIL NO SCALE

NOTE: ALL DEVICES SHOWN MAY NOT BE USED. DETAIL INDICATES TYPICAL MOUNTING HEIGHTS ONLY. MOUNTING HEIGHTS SHOWN ON THE ARCHITECT DRAWINGS AND SPECIFICATIONS TAKE PRECEDENCE. VERIFY EXACT MOUNTING HEIGHT REQUIRED WITH ARCHITECT AND INSTALL ACCORDINGLY.

APPLICABLE CODES : LATEST EDITION OF CODES ADOPTED BY LOCAL AUTHORITIES HAVING JURISDICTION, INCLUDING BUT NOT LIMITED TO NFPA 72 NATIONAL FIRE ALARM CODE INTERNATIONAL BLDG CODE 2018



LEGEND NOTES:

THE WORD "PROVIDE" AS USED IN THESE DRAWINGS SHALL MEAN "MATERIALS AND LABOR FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR".

- . MOUNTING HEIGHT OF ALL LIGHT SWITCHES, DIMMERS, RECEPTACLES, TELEPHONE, DATA AND SIGNAL OUTLETS SHALL BE IN ACCORDANCE WITH THE 'AMERICAN WITH DISABILITIES ACT'. LIGHT SWITCHES, DIMMERS, ETC. (+42")
- RECEPTACLES, TELEPHONE, DATA, ETC. (+18") ALL MOUNTING HEIGHTS ARE MEASURED FROM FINISHED FLOOR TO CENTER OF DEVICE. MOUNTING HEIGHTS SHOWN ON THE ARCHITECT DRAWINGS AND SPECIFICATIONS TAKE PRECEDENCE. VERIFY EXACT MOUNTING HEIGHT REQUIRED WITH ARCHITECT AND INSTALL ACCORDINGLY.

_			
		ELECTRICAL LEGEND	
4	ALL SYMB	OLS SHOWN ARE NOT NECESSARILY USED IN THIS PROJECT	
		2' x 4' LIGHT FIXTURE. LETTER INDICATES TYPE.	B
		2' x 2' LIGHT FIXTURE. LETTER INDICATES TYPE.	
		2' X 4' LIGHT FIXTURE WITH 90 MINUTE, MIN. 1100 LUMENS BATTERY PACK (NOTE: SIMILAR FOR 1' x 4' AND 2' x 2' FIXTURES)	DRAWN BY: PROJECT #
	₽. \	EXIT LIGHT. PROVIDE DIRECTIONAL CHEVRON(S) ARROW(S) AS INDICATED ON PLANS. CONNECT TO UNSWITCHED CIRCUIT.	NUMBER
	\$	SINGLE POLE SWITCH	
	\$3 \$abcd	THREE(3) WAY SWITCH LIGHT CONTROL SWITCH, SUBSCRIPT DENOTES LIGHT AS CONTROLLED	
	\$ D₃	DIMMER CONTROL 3-WAY SWITCH	
	\$м	MANUAL MOTOR STARTER WITH PROPER THERMAL ELEMENT INSTALLED.	
	ф	DUPLEX RECEPTACLE, 20AMP, 125VOLT, 2POLE, 3WIRE, GROUNDING TYPE, NEMA 5-20R (CM=CEILING MOUNT)	
	∯ GFI	GROUND FAULT INTERRUPTOR (GFI) DUPLEX RECEPTACLE. SIMILAR TO DUPLEX RECEPTACLE ABOVE. RECEPTACLE SHALL BE FULLY COMPLIANT TO THE LATEST UL 943 STANDARD. RECEPTACLE SHALL BE PROVIDED WITH AUTO- MONITORING (SELF-TEST) FUNCTION AND STATUS INDICATOR LIGHT (LEVITON SMART LOCK PRO OR EQUAL).	
	фwр	WEATHERPROOF (WP) DUPLEX RECEPTACLE. SIMILAR TO DUPLEX RECEPTACLE ABOVE.	
	+	DOUBLE (QUAD) DUPLEX RECEPTACLE WITH COMMON COVER PLATE. SIMILAR TO DUPLEX RECEPTACLE.	
	4	DUPLEX GROUNDING TYPE CONTROLLED RECEPTACLE, 20 AMP, 125VOLT, 2 POLE, 3 WIRE. RECEPTACLE SHALL HAVE PERMANENT IDENTIFICATION	
	A	SPECIAL OUTLET MOUNTED FLUSH IN WALL BOX LETTER INDICATES TYPE A - NEMATYPE B - C -	
	▼	TELEPHONE OUTLET. PROVIDE BACK BOX/COVER PLATE. INSTALL 3/4"C. WITH BUSHING AND PULL STRING, STUBBED TO ACCESSIBLE CELING.	
	∇	DATA OUTLET. PROVIDE BACK BOX/COVER PLATE. INSTALL 3/4"C. WITH BUSHING AND PULL STRING, STUBBED TO ACCESSIBLE CELING.	
	\mathbf{V}	COMBINATION TELEPHONE/DATA OUTLET. PROVIDE BACK BOX/COVER PLATE. INSTALL 3/4"C. WITH BUSHING AND PULL STRING, STUBBED TO ABOVE ACCESSIBLE CEILING.	
	J	JUNCTION BOX. (CM=CEILING MOUNT)	
	\bigtriangledown	ELECTRICAL PANEL BOARDS.	
	4	DISCONNECT SWITCH. ALL SWITCHES SHALL BE HEAVY DUTY TYPE (E.G. 30A/3P/600/NF/NEMA 1 OR NEMA 3R FOR OUTDOORS)	
		CONDUIT RUN CONCEALED IN WALL OR CEILING	
		CONDUIT RUN CONCEALED IN FLOOR	
		HOMERUN TO ELECTRICAL PANELBOARDS CROSS LINES ON CONDUIT RUNS INDICATE NUMBER OF	CT
		#12 CURRENT CARRYING CONDUCTORS CONTAINED THEREIN. TWO #12 AND MINIMUM OF ONE #12 GROUND WIRE ARE INDICATED WHEN CROSS LINES ARE NOT SHOWN. NUMERALS ADJACENT TO CROSS LINES ON CONDUIT RUNS INDICATE SIZE OF #12. ALL CONDUITS SHALL CONTAIN ONE GROUND WIRE SIZED PER C.E.C. TABLE 250.122. BUT NOT SMALLER THAN #12. WHERE ISOLATED GROUND RECEPTACLES ARE INDICATED, PROVIDE ADDITIONAL #12 GROUND WIRE IN CONDUIT RUNS, CONNECTED FROM ISOLATED GROUND BUS IN PANEL.	DRAWING
		Riverside Engineering CONSULTING ENGINEERS	TITLE: LEG
	ELE	CHANICAL CTRICAL MBING	
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		I.7483 Email: Info@Riv-Eng.com	



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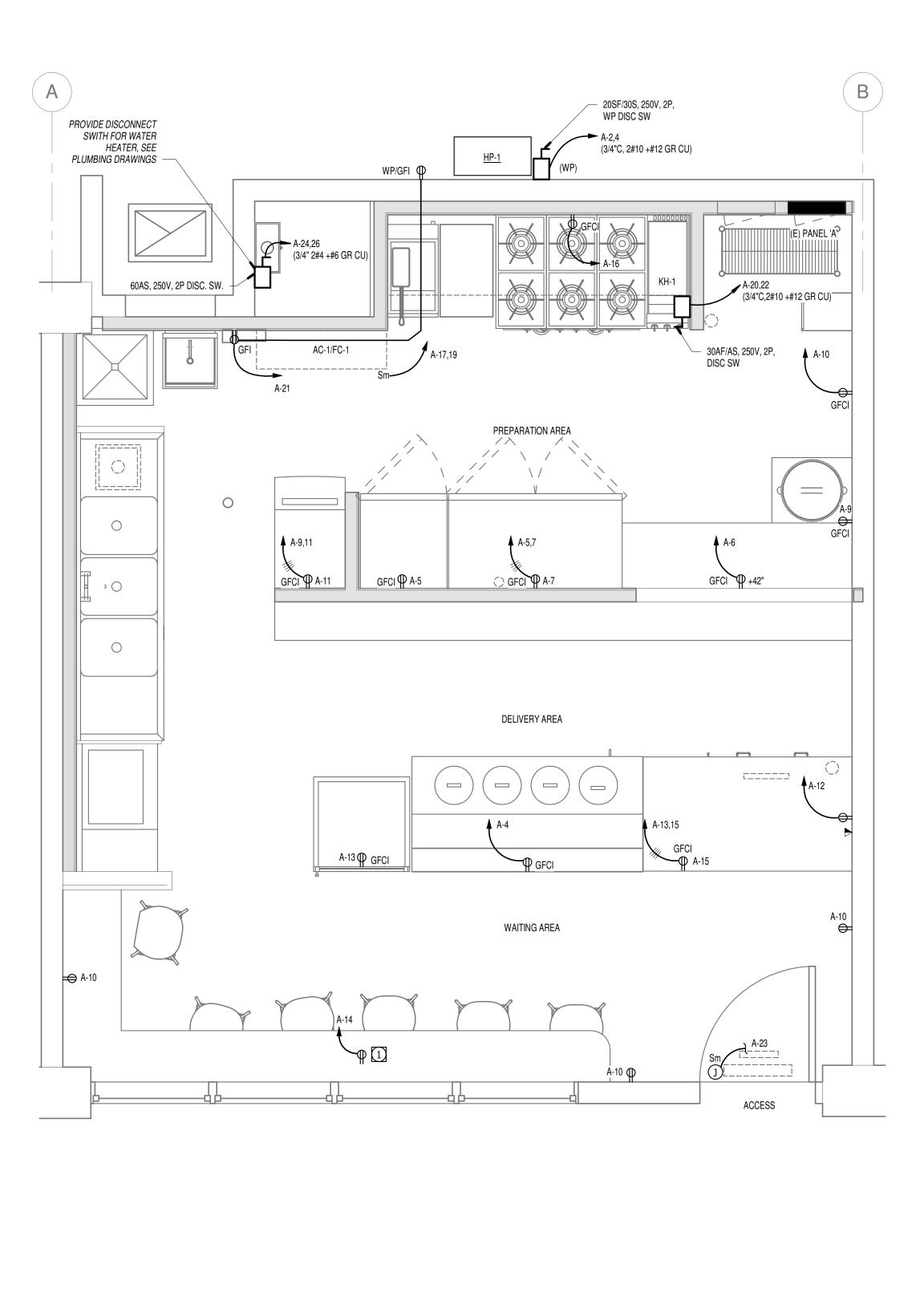
LEGEND AND NOTES

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11801 Pierce St., Suite 200

Riverside, California 92505 (By Appointment Only)

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POWER PLAN GENERAL NOTES (AS APPLICABLE)

- 1. REFER TO MECHANICAL AND PLUMBING DRAWINGS FOR EXACT LOCATIONS OF HVAC AND PLUMBING EQUIPMENT AND RELATED DEVICES, AND COORDINATE WITH MECHANICAL AND PLUMBING CONTRACTORS FOR POWER AND CONTROL CONNECTIONS PRIOR TO ROUGH IN.
- 2. DEVICE AND RECEPTACLE LOCATIONS SHOWN FOR REFERENCE ONLY. VERIFY WITH ARCHITECTURAL DRAWINGS EXACT LOCATIONS AND MOUNTING HEIGHTS OF DEVICES AND ADDITIONAL DETAILS PRIOR TO ROUGH IN.
- 3. NEW DEVICES SHALL BE FLUSH MOUNTED IN EXISTING WALLS, PROVIDE WALL CUTTING, PATCHING, AND PAINTING TO MATCH EXISTING. COORDINATE EXACT LOCATIONS AND WORK WITH ARCHITECTURAL DRAWINGS.
- 4. PROVIDE UL APPROVED FIRESTOP SYSTEM AT THROUGH PENETRATIONS OF NEW AND EXISTING FIRE RATED WALLS AND FLOORS WITH BOTH 'F' AND 'T' RATINGS REQUIRED TO MAINTAIN THE RATING OF THE ASSEMBLY.
- 5. PROVIDE CONCRETE CORES FOR CONDUIT ROUTING, VERTICAL CONDUIT SUPPORTS, AND UL LISTED FIRE STOPPING TO MAINTAIN FIRE RATING OF EXISTING FLOOR.
- 6. INTERCEPT AND EXTEND EXISTING BRANCH CIRCUITS TO REMAIN TO AVAILABLE SPARE CIRCUITS. MATCH SIZE AND QUANTITY OF CONDUIT AND CONDUCTORS. FIELD VERIFY PRIOR TO COMMENCEMENT OF WORK.
- 7. PROVIDE BACK BOXES AND CONDUITS FOR LOW VOLTAGE ACCESS CONTROL AND SECURITY SYSTEMS. REFER AND COORDINATE TO LOW VOLTAGE CONTRACTOR AND DESIGN DRAWINGS FOR LOCATIONS AND REQUIREMENTS.
- 8. PROVIDE DISCONNECT SWITCH, WEATHERPROOF (AS REQUIRED), FUSIBLE OR NON -FUSIBLE, AND LIQUID TIGHT FLEX CONNECTION TO MECHANICAL EQUIPMENT. SIZED PER MANUFACTURER'S REQUIREMENTS.
- 9. REFER TO UNIT PANEL SCHEDULE FOR CIRCUIT HOMERUN DESIGNATION. ELECTRICAL CONTRACTOR TO FIELD VERIFY EXISTING POWER OUTLET AND OR EQUIPMENT POWER CIRCUIT IF THEY ARE GOING TO BE RE-USED, IF NOT, PROVIDE NEW HOMERUN AS REQUIRED AND AS NECESSARY, TYPICAL TO ALL UNITS.

SHEET NOTES:

PROVIDE SHOW WINDOW RECEPTACLE. RECEPTACLE TO E MOUNTED FLUSH IN CEILING IF CEILING IS WITHIN 18" FROM THE TOP OF THE WINDOW, OR ON THE WALL ABOVE THE WINDOW IF THERE IS MORE THAN 18" TO THE CEILING ABOVE. ROUTE CIRCUIT THROUGH PLUG LOAD CONTROLLER FOR AUTOMATIC CONTROLS. REFER TO LIGHTING FLOOR PLAN FOR MORE INFORMATION.

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CIRCUITING NOTE: CIRCUITS SHOWN ON HOMERUNS SHALL BE EXTENDED TO DEVICES WHERE CIRCUITS ARE IDENTIFIED. ALL CONDUCTORS SHALL BE ROUTED IN CONDUIT. THE CONTRACTOR SHALL PROVIDE AND INSTALL ALL CONDUIT, BOXES, CONDUCTORS, SUPPORTS, ETC. REQUIRED FOR A COMPLETE INSTALLATION. REFER TO THE SPECIFICATIONS FOR CONDUIT AND CONDUCTOR REQUIREMENTS.	PROJECT:
	DRAWINGS PREPARED BY:
Riverside Engineering CONSULTING ENGINEERS	TITLE:
MECHANICAL ELECTRICAL PLUMBING ENERGY	ELECTRICAL POWER PLAN SHEET:
PLUMBING ENERGY CONSULTANTS 888.401.7483 Email: Info@Riv-Eng.com www.Riv-Eng.com 11801 Pierce St., Suite 200	E2.1



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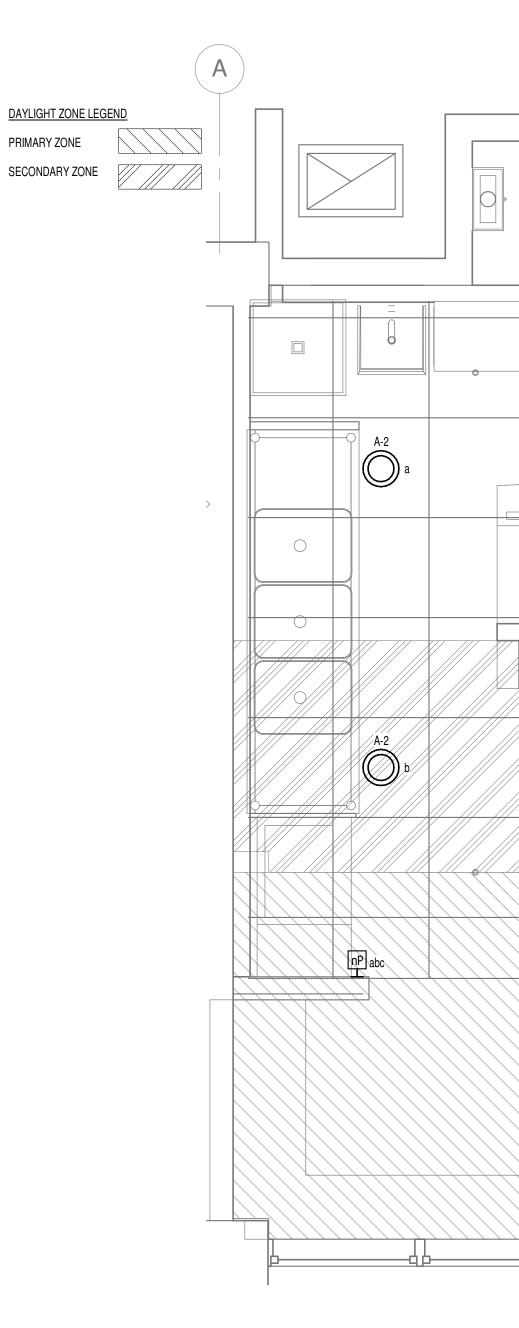
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			LIGHT	NG FIXTURE SCHEDULE	
TYPE	DESCRIPTION	FINISH	LAMPS	REMARKS	MANUFACTURER
А	4 INCH OPWN AND WALLWASH LED NEW CONSTRUCTION DOWNLIGHT	TBD*	4/LED 0-10V DIM 35K/80 CRI 17.5W	- 120V	LITHONIA LIGHTING #LDN4 *** #LDN4-35/15-L04WR-LSS-120-EZ10
В	18" WIDE LED PENDANT LIGHT	TBD*	LED 0-10V DIM 30K/90CRI	-	TECH LIGHTING #700TDZVO-LED930-90CRI-30K-120V
EM	BUG EYE LED LIGHT FIXTURE WITH 90 MIN. SEALED NI-CAD EMERGENCY BATTERY ILLUMINATION.	TBD*	11W INTEGRATED LED MODULE 5.4W	120V -	LITHONIA LIGHTING QUANTUM SERIES BUG EYE #ELMT-W-LP06VS-LTP ***
x	WALL MOUNTED LED EXIT SIDN	TBD*	INTEGRATED LED MODULE 1.2W	120V -	LITHONIA LIGHTING QUANTUM SERIES #LQC 1 G E LN
NOTES:				120V	
*	 OR APPROVED EQUAL FIXTURE ** CONTACT KENT BONNETT AT PERFORMAN 	CE LIGHITI	NG (KENTB@PER	REPRESENTATIVE. FORMANCELTG.COM) WITH ANY EXPEDITING, BUDGE ⁻ JOEP@PERFORMANCELTG.COM) WITH ANY EXPEDITI	T, SUBSTITUTION ISSUES YOU MAY HAVE WITH NG, BUDGET, SUBSTITUTION ISSUES YOU MAY
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TYPE 'X'

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- SECONDARY DAYLIGHT ZONE

PRIMARY DAYLIGHT ZONE

In no event shall any party, client or otherwise copy or use any of the [concepts, plans, drawings, specifi cations, designs, models, reports, photographs, computer software, surveys, calculations, construction and other data, documents, and processes produced by the Consultant RIVERSIDE ENGINEERING.

1/2" = 1'-0"

ELECTRICAL LIGHTING PLAN

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LIGHTING PLAN GENERAL NOTES (AS APPLICABLE)

- 1. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS, FLOOR PLANS, AND ELEVATIONS FOR EXACT LIGHTING FIXTURE AND CONTROL DEVICE LOCATIONS, CEILING TYPES AND MOUNTING HEIGHTS.
- 2. LIGHT FIXTURES SHOWN CIRCUITED DIRECTLY FROM LIGHTING BRANCH PANELBOARDS UNLESS OTHERWISE NOTED.
- 3. EXIT SIGNS AND EGRESS LIGHTING FIXTURES PROVIDED WITH 90 MINUTE EMERGENCY BATTERY PACK AND UNSWITCHED 'HOT' FROM LIGHTING PANELBOARD FOR POWER FAILURE SENSING.
- 4. PROVIDE UL APPROVED FIRESTOP SYSTEM AT THROUGH PENETRATIONS OF NEW AND EXISTING FIRE RATED WALLS TO MAINTAIN FIRE RATING OF ASSEMBLY.
- 5. ELECTRICAL CONTRACTOR TO FIELD VERIFY EXISTING LIGHTING POWER CIRCUIT IF THEY ARE GOING TO BE RE-USED, IF NOT, PROVIDE NEW HOMERUN AS REQUIRED AND AS NECESSARY, TYPICAL TO ALL UNITS.
- 6. DIMMING WALL OCCUPANCY CONTROL SWITCHES LOCATION, EQUAL OR EQUIVALENT TO APPROVED ACUITY CONTROLS (WSX PDT D 347 WH 8H).
- 7. WALL/CEILING MOUNTED OCCUPANCY SENSOR, EQUAL OR EQUIVALENT TO APPROVED ACUITY CONTROLS (CM PDT 10 R LT, DUAL TECHNOLOGY), (AS APPLIED).
- 8. CEILING MOUNTED PHOTOCELL EQUAL OR EQUIVALENT TO APPROVED ACUITY CONTROLS (CM ADC VLP LT), (AS APPLIED).
- 9. REST ROOM EXHAUST FAN INTERLOCKED TO THE REST ROOM LIGHTING CONTROL SENSOR/SWITCH. REFER TO MECHANICAL DRAWINGS.
- 10. REFER TO UNIT PANEL SCHEDULE FOR THE CIRCUIT HOMERUN DESIGNATION, TYPICAL TO ALL UNITS.

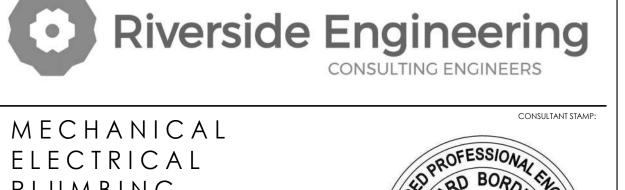
<u>nLIGHT CONTROLS SYMBOLS:</u>

- NP SW1 N LIGHT WIRED AESTHETIC WALLPOD, 2 POLE, RAISE/LOWER DIMMING # nPODMA 2P DX XX [COLOR]
- OS OS1 N LIGHT DUAL TECHNOLOGY, SMALL MOTION, LOW VOLTAGE, STANDARD RANGE 360 LENS, REAR RJ-45 PORTS, OCCUPANCY SENSOR (RECESS MOUNT) # nCM-PDT-9 RJB
- PR DP1 N LIGHT POWER/RELAY PACK, DIMMING, EXTERNAL FAULT PROTECTION # NPP16 EFP

---- PLENUM RATED LOW VOLTAGE CAT 5E CABLING PER MANUFACTURER SPECIFICATIONS.

GENERAL NOTES:

COORDINATE REQUIREMENT AND PROGRAM OF CEILING AND WALL SENSORS, DIMMING, AND POWER/RELAY WITH SENSOR SWITCH MANUFACTURER PRIOR TO ORDERING AND ROUGH-IN. INCLUDE PLENUM RATED LOW VOLTAGE 0-10VAC CABLING PER MANUFACTURER SPECIFICATIONS.



PLUMBING ENERGY CONSULTANTS 888.401.7483 Email: Info@Riv-Eng.com www.Riv-Eng.com 11801 Pierce St., Suite 200 Riverside, California 92505 (By Appointment Only)

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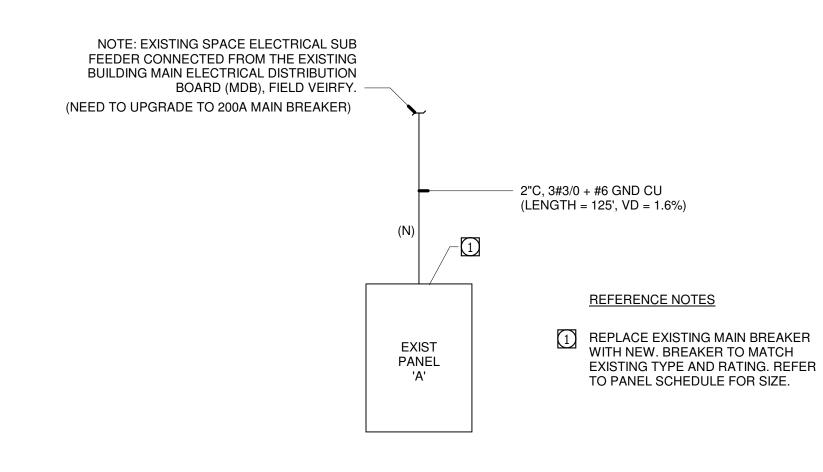
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TITLE:

ELECTRICAL LIGHTING PLAN

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SHEET:



PARTIAL ELECTRICAL SINGLE LINE DIAGRAM N.T.S 1

- 70 - 101		MOUNTING FLUSH NEMA 3R NO FEED THRU NO		UBLE LUG 200% I/G BUS	NO NO		<u>120/208V</u> <u>1</u>	UPGN	ADE TO	200A)	MAIN200BUS200A.I.C.10,000			
TA	1	LOCATION	TRIP	POLES	A	в	A	в	POLES	TRIP	LOCATION		C I R C	
	1 HP-1	LOOATION	20A	2	1800		208		1	20A	LIGHTING -		2	L
Зm						1800		1800	i	20A	HOT FOOD STATION - ITEM #1		4	ĸ
≼	5 FREEZER - I	ITEM #3	20A	1	315		1152		1	20A	REFRIGERATED PREP TABLE - ITE	EM #2	6	ĸĊ
< 	7 REFRIGERA		20A	1		730		600	1	20A	AIR CURTAIN - ITEM #20			N
к	9 RICE COOKE	ER - ITEM #5	20A	1	600		720		1	20A	CONVENIENCE RECEPTACLE			R (
) K	11 ICE MACHIN	E - ITEM #7	20A	1		1440		500	1	20A	POS RECEPT			R (
) ĸ	13 MERCHANDI	ISER - ITEM #8	20A	1	840		180		1	20A	SHOW WINDOW RECEPTACLE		14	
		PLAY - ITEM #9	20A	1		1632		180	1	20A	STOVE - ITEM #6		16	R (
	17 FC-1/AC-1		20A	2	600				1	20A	SPARE		18	_(
				-		600		1500	2	30A	KH-1/KECP, VERIFY		20	_
	21 SERVICE GF	the state of the second s	20A	1	180		1500			1.00				м
	23 AIR CURTAIN	N	20A	1		500		5500	2	60A	WATER HEATER		24	
	25						5500		3	88			26	<u>c (</u>
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	***			-	Ø	DA	Ø	ØB					44	
		-	TOTAL DEM	AND LOAD:		605		796	1					
		3	TOTAL DEM	AND AMPS:	1	22		40	1	87%	PERCENT BALANCE			
				2		7	1		20					
	LOA	D CLASSIFICATION		CONNECTE	D LOAD	DEMAN	ID FACTOF	R ES	TIMATED DE	EMAND	PANEL LOAD)S		
		CONTINUOUS LOAD :	INTO SCIEV	12200)	1	25%		15250					
	KI	ITCHEN EQUIPMENT LOAD =		8509			65%		5531		TOTAL CONN. LOAD (VA):	3037	77	
		LIGHTING LOAD =		208			25%		260		TOTAL EST. DEMAND (VA):	3140	4(00PU	
		MOTOR LOAD =		6600			00%		7500		TOTAL CONN. (AMPS):	146	55F	
		NON-CONTINUOUS LOAD =		1100			00%		1100		OTAL EST. DEMAND (AMPS	151	1	
		PANEL LOAD =		0		-	00%		0					
		RECEPTACLE LOAD =	= R	1760	1	1	00%		1760					
1 F	PROVIDE LOC	APPLICABLE) K-ON DEVICE. K-OFF DEVICE. AKER CONTROLLED BY	(4) (5) (6)	PROVIDE	A RED CIR	CUIT BRE	AKER.	FOR H	VAC EQUIP	MENT.	CUIT BREAKER ①EXISTING BRE ①CIRCUIT MAD TIME CLOCK THROUGH DE	e availae		
\sim		M. REFER TO HOOD	0	TO EXISTI				-	RELAYS FOR					
		INTERLOCK DIAGRAM.		RATING IN							TO EXTERIOR			
50 10									ING CONTRO					

SINGLE LINE DIAGRAM GENERAL NOTES (AS APPLICABLE)

- 1. FIELD VERIFY MINIMUM AIC RATINGS OF EXISTING ELECTRICAL EQUIPMENTS.
- 2. ADJUST CIRCUITING ON PANELBOARDS AS REQUIRED TO MAINTAIN MAXIMUM 10% LOAD IMBALANCE.
- 3. PROVIDE A COMPLETE TYPED DIRECTORY IN EACH PANELBOARD TO INCLUDE EXISTING LOADS TO REMAIN AS WELL AS NEW LOADS. DIRECTORY SHALL INDICATE EQUIPMENT NAME AND/OR ROOM NUMBER OF EQUIPMENT OR DEVICES FOR BOTH NEW AND EXISTING LOADS PER NEC 408.4.
- 4. PANELBOARDS IDENTIFICATION LABEL SHALL INCLUDE THE NAME WHERE POWER SUPPLY ORIGINATES PER NEC 408.4.
- 5. CIRCUIT BREAKERS SERVING FIRE ALARM SYSTEM PANELS AND POWER SUPPLIES SHALL BE IDENTIFIED AS FIRE ALARM, PROVIDED WITH LOCK ON DEVICE, AND HAVE A RED COLORED HANDLE OR PAINTED RED.
- 6. FIELD VERIFY AVAILABLE FAULT CURRENT AT SERVICE ENTRANCE WITH UTILITY COMPANY PRIOR TO PROCUREMENT OF ELECTRICAL DISTRIBUTION EQUIPMENT AND VERIFY MINIMUM FAULT INTERRUPTING RATINGS OF MAIN SWICTHBOARD AND BRANCH PANELBOARD.
- 7. ALL OVERCURRENT DEVICES IN AN INDIVIDUAL PIECE OF EQUIPMENT SHALL HAVE AN AIC RATING EQUAL TO THE OVERALL RATING OF THE EQUIPMENT.
- 8. ALL TERMINATIONS AND ENCLOSURES SHALL BE RATED FOR USE WITH 75 DEGREE CELSIUS CONDUCTORS.
- 9. ALL SERVICE ENTRANCE EQUIPMENT, SWITCHBOARDS, DISTRIBUTION BORADS, AND PANELBOARDS RATED AT 400AMPS OR GREATER, SHALL BE PROVIDED WITH A MAIN OVERCURRENT DEVICE AND BUSSING RATED AT 100% CONTINUOUS OPERATION.
- 10. ALL BRANCH OR FEEDER CIRCUIT OVER CURRENT DEVICES RATED AT 400AMPS OR HIGHER SHALL BE RATED FOR 100%



DRAWN BY: PROJECT #

NUMBER	DESCRIPTION	DATE
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IMPROVEM

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PIRI PIRI

SABOR

PANEL WIRE/FEEDER DISTRIBUTION SCHEDULE

		1PHASE, 2W	IRE - COPPER	
FEEDER	AMPS	CONDUIT	CONDUCTOR	GROUND
F202	20	3/4"C	2#12	#12
F302	30	3/4"C	2#10	#10
F402	40	3/4"C	2#8	#10
F502	50	1"C	2#6	#10
F602	60	1"C	2#4	#10
F702	70	1"C	2#4	#8
F802	80	1-1/4"C	2#2	#8
F902	90	1-1/4"C	2#2	#8
F1002	100	1-1/4"C	2#1	#8

	VOL	TAGE	DROP	WIRE T	ABLE	
	110VOLT,	SINGLE PH	ASE, MAXIMU	JM 3% VOLT	AGE DROP	
LENGTH OF RUN	10'-25'	26'-50'	51'-100'	101'-150'	151'-200'	AMPS
CU WIRE	#12	#12	#8	#6	#6	15
CU WIRE	#12	#10	#8	#6	#4	20
CU WIRE	#10	#8	#6	#4	#3	30
CU WIRE	#8	#8	#4	#3	#2	40
CU WIRE	#8	#6	#4	#2	#1	50
CU WIRE	#6	#6	#3	#1	#0	60
CU WIRE	#4	#4	#2	#1	#00	70
CU WIRE	#3	#3	#1	#00	#000	100
	208VOLT,	SINGLE PH	ASE, MAXIMU	JM 3% VOLT	AGE DROP	
LENGTH OF RUN	10'-25'	26'-50'	51'-100'	101'-150'	151'-200'	AMPS
CU WIRE	#12	#12	#10	#10	#8	15
CU WIRE	#12	#12	#10	#8	#6	20
CU WIRE	#10	#10	#8	#6	#4	30
CU WIRE	#8	#8	#6	#6	#4	40
CU WIRE	#8	#8	#6	#4	#3	50
CU WIRE	#6	#6	#4	#4	#3	60
CU WIRE	#4	#4	#4	#3	#2	70
CU WIRE	#3	#3	#3	#2	#0	100



DRAWINGS PREPARED BY:



11801 Pierce St., Suite 200 Riverside, California 92505 (By Appointment Only)

Riverside Engineering CONSULTING ENGINEERS



CONSULTANT STAMP:

POFESSIONA

RD BORD

E 22318

EXP. 06-30-2024

ECTRICAL

ELECTRICAL SINGLE LINE DIAGRAM AND LOAD CALCULATIONS

SHEET:



STATE OF CALIFORNIA Indoor Lighting NRCC-LTI-E (Created CERTIFICATE OF COMPLIANCE This document is used to demonstrate compliance with requirements in §110.9, §110.12(c), §130.0, §130.1, §140.6, and §141.0 prescriptive path. Project Name: Sabor Piri Piri Report Page: Project Address: 800 B Ave., Suite 804 Date Prepared: A. GENERAL INFORMATION 01 Project Location (city) National City 04 Total Conditioned Floor Area (ft 02 Climate Zone 05 Total Unconditioned Floor Area 03 Occupancy Types Within Project (select all that apply): 06 # of Stories (Habitable Above G Schoo Office ✓ Retail Hotel/Motel Warehouse Parking Garage High-Rise Residential Relocatable Healthcare Other B. PROJECT SCOPE Table Instructions: Include any lighting systems that are within the scope of the permit application and are demonstrating com \$140.6 or \$141.0(b)2 for alterations. WARNING: Changing the Calculation Method in this table will result in the deletion of data calculation method, please open a new form or use "Save As". Scope of Work **Conditioned Spaces** 03 My Project Consists of (check all that apply): Calculation Method Area (ft²) ✓ New Lighting System Area Category 435 Altered Lighting System 435 Total Area of Work (ft²) C. COMPLIANCE RESULTS Table Instructions: If any cell on this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table Allowed Lighting Power per §140.6(b) (Watts) Adjusted Lighting Pov Lighting in 01 02 03 04 06 05 Total PAF (conditioned and Area Category Tailored unconditioned Area Category Additional Additional $\underline{\$140.6(c)3}$ = Total Allowed (Watts) Complete spaces must not Designed Building be combined for (Watts) §140 §140.6(c)1 (+) (Watts) compliance per (+)

(See Table I) (See Table I) (See Table J) (See Table K)

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

STATE OF CA	LIFORNIA
Indoor	Lighting
NRCC-LTI-E (Created 04/21)

CERTIFICATE OF COMPLIANCE

<u>§140.6(b)1</u>.

Conditioned:

Unconditioned

Table Continu

Project Name:	Sabor Piri Piri	Report Page:
Project Address:	800 B Ave., Suite 804	Date Prepared:
J. ADDITIONAL	LIGHTING ALLOWANCE: AREA CATEGORY N	IETHOD QUALIFYING LIGHTING SYSTEM
This Section Does	Not Apply	
K. TAILORED M	ETHOD GENERAL LIGHTING POWER ALLOW	ANCE
This Section Does	Not Apply	
L. ADDITIONAL	LIGHTING ALLOWANCE: TAILORED WALL D	ISPLAY
This Section Does	Not Apply	
M. ADDITIONA	L LIGHTING ALLOWANCE: TAILORED FLOOR	AND TASK LIGHTING
This Section Does	Not Apply	
N. ADDITIONAL	LIGHTING ALLOWANCE: TAILORED ORNAM	IENTAL/SPECIAL EFFECTS
This Section Does	Not Apply	
O. ADDITIONAL	LIGHTING ALLOWANCE: TAILORED VERY V	ALUABLE MERCHANDISE
This Section Does		
	ISTATAT LICUTING CONTROL OFFICE	
P. POWER ADJ	JSTMENT: LIGHTING CONTROL CREDIT (PO	VER ADJUSTMENT FACTOR (PAF))

P. POW This Section Does Not Apply

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

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

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			October 12, 20
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				Cont	rols Compliance (S	ee Table H for D	etails)	COMPLI	ES	
			Rated F	ower Reduct	tion Compliance (S	ee Table Q for D	etails)	Not Applic	able	
D. EXCEPT	TIONAL CONDITIONS									6
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	ONAL REMARKS									
his table in	includes remarks made by the permi	t applicant to th	e Authority Havin	g Jurisdiction.	6					
	R LIGHTING FIXTURE SCHEDULE									G
	uctions: Include all permanent desig	ned lighting and	d all portable light	ing in offices						
2	Wattage: Conditioned Spaces	neu nynting und	i un portable light	ing in offices.	S-					
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Statute Statute	LED RECESSED DOWNLIGHT			17.5	Mfr. Spec ²	10		175	Pass	Fail
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CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: http://www.energy.ca.gov/title24/2019standards

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April 2021

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CERTIFICATI				NRCC-LTI-
Project Nam		pr Piri Piri Report Page:		Page 5 of
Project Add	ress: 800 l	B Ave., Suite 804 Date Prepared:	0	tober 12, 202
Table E. Ada	litional Rer	ections have been made based on information provided in previous tables of this document. If any select marks. These documents must be provided to the building inspector during construction and can be four www.compliance_documents/Nonresidential_Documents/NRCI/		
YES	NO	Form/Title	Field	Inspector
TES	NO	Formy rule	Pass	Fail
۲	0	NRCI-LTI-01-E - Must be submitted for all buildings		
C	۲	NRCI-LTI-02-E - Must be submitted for a lighting control system, or for an Energy Management Cont recognized for compliance.	rol System (EMCS), to be	
С	۲	NRCI-LTI-04-E - Must be submitted for two interlocked systems serving an auditorium, a convention room, a multipurpose room, or a theater to be recognized for compliance.	center, a conference	
C	۲	NRCI-LTI-05-E - Must be submitted for a Power Adjustment Factor (PAF) to be recognized for compl	iance.	
О	۲	NRCI-LTI-06-E - Must be submitted for additional wattage installed in a video conferencing studio to compliance.	be recognized for	
J. DECLAR		F REQUIRED CERTIFICATES OF ACCEPTANCE		
able E. Ada	litional Rer	ections have been made based on information provided in previous tables of this document. If any select marks. These documents must be provided to the building inspector during construction and any with " nician Certification Provider (ATTCP). For more information visit: <u>http://www.energy.ca.gov/title24/attr</u>	-A" in the form name must be comple	아님, 아이는 것 같아요. 가 아름지 않아서 이 것
YES	NO	Form/Title	Field	I Inspector Fail
۲	0	NRCA-LTI-02-A - Must be submitted for occupancy sensors and automatic time switch controls.		
V. George	1.000			
0	0	NRCA-LTI-03-A - Must be submitted for automatic daylight controls.		
0	۲	NRCA-LTI-04-A - Must be submitted for demand responsive lighting controls.		
0	۲	NRCA-LTI-05-A - Must be submitted for institutional tuning power adjustment factor (PAF).		
	0	NRCA-ENV-03-F - Must be submitted for daylighting design power adjustment factors (PAF).		

NRCC-LTI-E (Created 04/21)			CALIFORNIA ENERGY COMMISSION
CERTIFICATE OF COMPLIANCE			NRCC-LTI-
Project Name: Sabor Piri Piri		Report Page:	Page 6 of
Project Address: 800 B Ave., S	uite 804	Date Prepared:	October 12, 20
DOCUMENTATION AUTHOR	R'S DECLARATION STATEMENT		
certify that this Certificate of	Compliance documentation is accurate and comp	plete	
Documentation Author Name:	Edward Borden III	Documentation Author Signature:	a porto
Company:	Riverside Engineering	Signature Date: 05-10-2023	
Address:	11801 Pierce St., Suite 200	CEA/ HERS Certification Identificati	ion (if applicable):
City/State/Zip:	Riverside, Ca. 92505	Phone:	888-401-7483
 The information provided o I am eligible under Division Compliance (responsible de The energy features and pe 	rformance specifications, materials, component	ect. ht responsibility for the building design or sy s, and manufactured devices for the buildir	ng design or system design identified on this
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CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: http://www.energy.ca.gov/title24/2019standards

MECHANICAL

CONSULTANTS

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888.401.7483 Email: Info@Riv-Eng.com

Riverside, California 92505 (By Appointment Only)

ELECTRICAL

PLUMBING

ENERGY

www.Riv-Eng.com

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NUMBER DESCRIPTION DATE

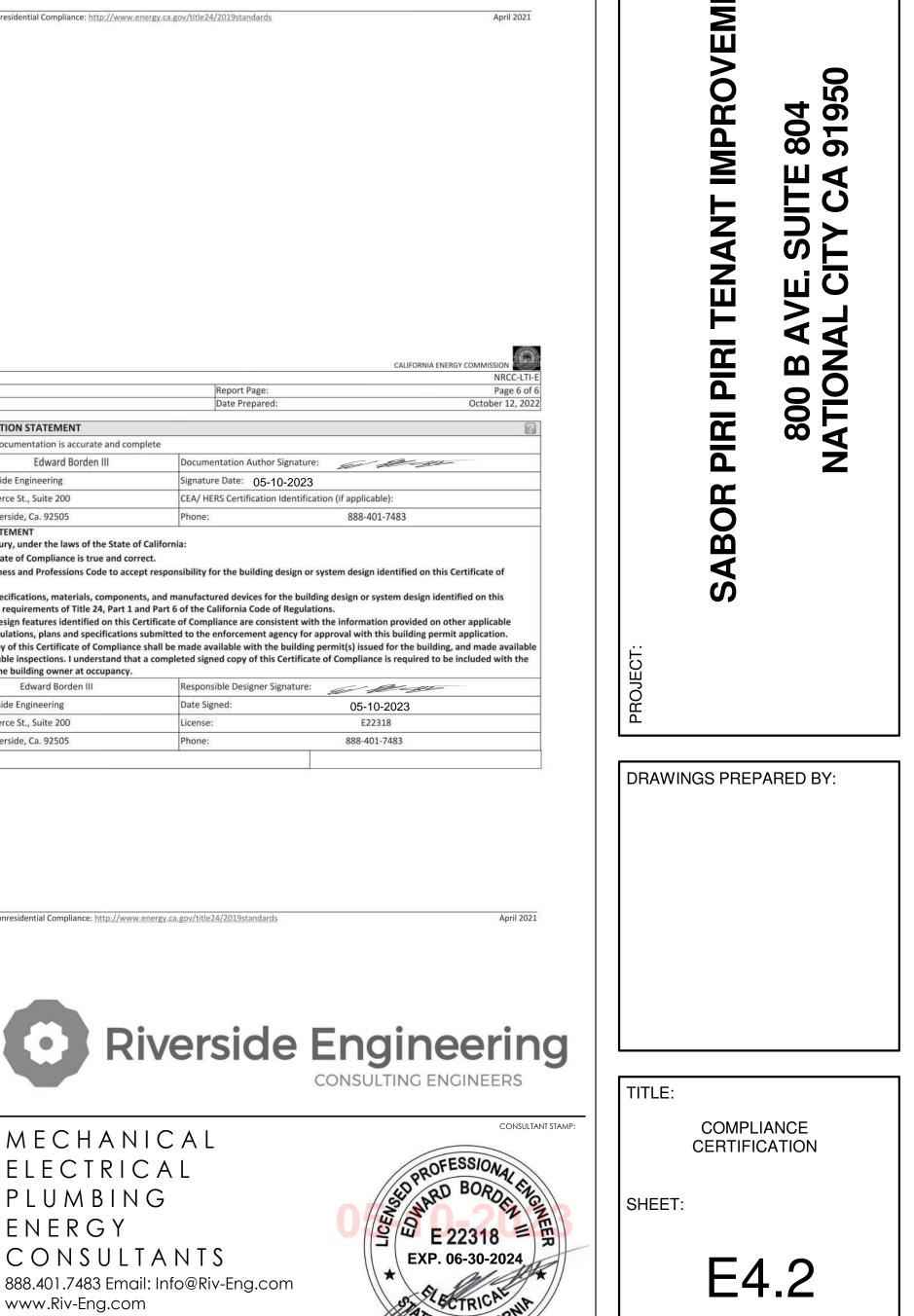
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PROJECT #

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	B Ave., Suite 804			Date Prepared:				October	12, 202
	ase include lighting controls for condition one lighting controls section of the Comp							ion of this	table
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	Mandatory Demand Response §110.12(c)				Off Controls 30.1(c)		-		
	9110.12(0)			31	<u>50.1(c)</u>			Pass	Fail
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			Multi-Level	Shut-Off	Primary/Skylit	Secondary	Interlocked	1 Field In	enecto
Area Description	Complete Building or Area Category Primary Function Area	Area Controls §130.1(a)	Controls	Controls	Daylighting	Daylighting	Systems	Field In	specto
	rinnary runction Area	3130.1[d]	§130.1(b)	<u>§130.1(c)</u>	§130.1(d)	§140.6(d)	§140.6(a)1	Pass	Fail
Prep Area	Kitchen, Food Preparation	Manual ON/ OFF	Dimmer	Occ. Sensor	Included	Included			
Sales	Retail Merchandise Sales, Wholesale Showroom	Manual ON/ OFF	Dimmer	Occ. Sensor	Included	Included			
NOTES: Controls with	a * require a note in the space below	explaining how con	npliance is achiev	/ed.		1	13	d o	
	ary/Skylight Daylighting: Exempt becau		7		PI	an Sheet Show	ving Daylit Zo	nes:	
EXCEPTION 1 to §130.	<u>1(d)2</u>					E	2.2		
				3	0				
	ALLOWANCE: COMPLETE BUILDIN	and the second							12
Table Instructions: Con	nplete the table for each area complyin (c) or adjustments per §140.6(a) are be	The second s	ete Building or Ar	ea Category Meth	ods per <u>§140.6(b</u>). Indicate if a	dditional ligh	iting powe	er
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llowances per <u>§140.6</u>	<u>Ter</u> or aufastinents per <u>satisfier</u> are se								
llowances per <u>§140.6</u>		02		03	04	05		06	
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allowances per <u>§140.6</u> Conditioned Spaces 01 Area Descript	tion Complete E Prim Kitche	Building or Area Cat hary Function Area	n	Allowed Density (W/ft ²)	Area (ft²)	Allowed Wattage (Watts)	Ad	al Allowar justment	

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- 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.
- 3. 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.
- 4. 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.
- 6. 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. 7. ALL HVAC EQUIPMENT, MATERIAL, AND ALL CONNECTION THERETO SHALL BE INSTALLED COMPLETE PER MANUFACTURER'S INSTRUCTIONS TO PROVIDE A
- 8. DUCT SIZES INDICATED ON DRAWINGS ARE INSIDE NET CLEARANCE DIMENSIONS.

COMPLETE AND FULLY OPERATIONAL SYSTEM.

- 9. 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.
- 10. 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.
- 11. 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.
- 12. SUBSTITUTION OF HVAC EQUIPMENT WITH EFFICIENCIES LOWER THAT THOSE INDICATED ON THE PLANS IS NOT PERMITTED.
- 13. 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.
- 14. SUBMITTALS: APPROVAL OF SUBMITTALS DOES NOT RELEASE THE CONTRACTOR FROM OBLIGATIONS TO COMPLY WITH ALL REQUIREMENTS OF THE CONSTRUCTION DOCUMENTS OR APPLICABLE CODE REGULATIONS.
- 15. WHERE NONMETALLIC PIPING PENETRATES AREA SEPARATION WALLS, THE PIPE SECTION PASSING THROUGH THE WALLS AND THE FIXTURE CONNECTIONS THERETO SHALL BE OF METAL ONLY.
- 16. NO RANGE HOODS, DRYER VENTS, COMBUSTION VENTS, OR HEATING DUCTS ARE PERMITTED IN AREA SEPARATION WALLS.
- A. CONTRACTOR TO VERIFY LOCATION OF FIRE AND FIRE/SMOKE BARRIER WALLS WITH ARCHITECT PRIOR TO FIRE AND/OR SMOKE DAMPER. DETECTOR AND ACTUATOR INSTALLATION.
- B. ALL CEILING FIRE DAMPERS TO BE ONE (1) HOUR U.L. AND C.S.F.M. APPROVED
- C. ALL ONE HOUR WALL SHALL BE APPROVED WITH ONE HOUR FIRE DAMPERS BOTH U.L. AND C.S.F.M. APPROVED.
- D. ALL TWO HOUR WALLS SHALL BE APPROVED WITH TWO HOUR FIRE DAMPERS BOTH U.L. AND C.S.F.M. APPROVED.
- E. 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.
- F. 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.
- G. PROVIDE ALL FIRE & SMOKE DAMPERS WITH ACCESS DOORS AS NECESSARY. 17. 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.
- 18. PROVIDE TURNING VANES ON ALL 90 DEGREE SQUARE ELBOWS.
- 19. PROVIDE FLEXIBLE DUCT CONNECTIONS WITH MINIMUM 1" GAP ON THE SUPPLY AND RETURN DUCT CONNECTIONS ON ALL FANS.
- 20. ALL SUPPLY AND RETURN DUCTWORK FROM AC UNITS AND FANS 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.
- 21. VERIFY MECHANICAL EQUIPMENT LOCATION & DUCT ROUTING WITH ENGINEERING PRIOR TO CONSTRUCTION.
- 22. FACTORY-MADE FLEXIBLE AIR DUCTS AND CONNECTORS SHALL BE NOT MORE THAN 5 FEET IN LENGTH AND SHALL NOT BE USED IN LIEU OF RIGID ELBOWS OR FITTINGS. FLEXIBLE AIR DUCTS SHALL BE PERMITTED TO BE USED AS AN ELBOW AT A TERMINAL DEVICE.

CALIFORNIA GREEN BUILDING STANDARDS CODE 2022

- 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 PF 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 2022 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 2022 CALIFORNIA ENERGY CODE, SECTION 120(C)(4). CGBC 5.506.2
- 8. 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.
- 10. 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.
- 1. AFTER COMPLETION OF TESTING, ADJUSTING AND BALANCING, PROVIDE A FINAL REPORT
- 12. 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.
- 13. 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.
- 14. INSTALL HVAC AND REFRIGERATION EQUIPMENT THAT DOES NOT CONTAIN CFCs. CGBG 5.508.1.1.
- 15. INSTALL FIRE SUPPRESSION EQUIPMENT THAT DOES NOT CONTAIN HALONS. CGBC 5.508.1.2.
- 16. ADHESIVES, ADHESIVE BONDING PRIMERS, ADHESIVE PRIMERS, SEALANT, SEALANT PRIMERS AND CAULS SHALL COMPLY WITH LOCAL OR REGIONAL AIR POLLUTION CONTROL OR AIR QUALITY MANAGEMENT DISTRICT RULES WHERE APPLICABLE, OR SCAQMD RULE 1168 VOC LIMITS, AS SHOWN IN CALGREEN TABLES 5.504.4.2. SUCH PRODUCTS SHALL COMPLY WITH THE RULE 1168 PROHIBITION ON THE USE OF CERTAIN TOXIC COMPOUNDS (CHLOROFORM, ETHYLENE DICHLORIDE, METHYLENE CHLORIDE, PERCHLOROETHYLENE AND TRICHLOROETHYLENE). EXCEPT FOR AEROSOL PRODUCTS AS SPECIFIED BELOW. AEROSOL ADHESIVES, AND SMALLER UNIT SIZES OF ADHESIVES, AND SEALANT OR CAULKING COMPOUNDS)IN UNITS OF PRODUCT. LESS PACKAGING. WHICH DO NOT WEIGH MORE THAN ONE POUND AND DO NOT CONSIST OF MORE THAN 16 FUILD OUNCES) SHALL COMPLY WITH STATEWIDE VOC STANDARDS AND OTHER REQUIREMENTS, INCLUDING PROHIBITIONS ON USE OF CERTAIN TOXIC COMPOUNDS, OF CALIFORNIA CODE OF REGULATIONS, TITLE 17, COMMENCING WITH SECTION 94507.

DUCT TESTING AND INSULATION

- ALL DUCTWORK SHALL BE SEALED AND PRESSURE TESTED FOR LEAKS PER SMACNA REQUIREMENTS IN THE "HVAC AIR DUCT LEAKAGE TEST MANUAL" AND THE CALIFORNIA GREEN BUILDING 2022 STANDARDS.
- INSULATE ALL DUCTWORK AND PIPES PER THE 2022 CALIFORNIA MECHANICAL CODE AND TITLE 24 REQUIREMENT. ALL DUCTWORK SHALL BE INSULATED WITH WOOL FIBER OR FIBERGLASS INSULATION WITH FSK VAPOR BARRIER. ALL PIPES (INCLUDING CONDENSATE PIPING) SHALL BE INSULATED WITH EARTHWOOL FIBERGLASS PIPE INSULATION WITH ASJ+SSL FACING. REFRIGERANT PIPING SHALL BE INSULATED WITH CLOSED CELL INSULATION. ALL DUCTS AND PIPES EXPOSED TO WEATHER (DUCTWORK IN CRAWL SPACES ARE CLASSIFIED AS DUCTWORK EXPOSED TO WEATHER). INCLUDING REFRIGERANT PIPING, SHALL BE PROVIDED WITH ALUMINUM OR SS JACKET INSTALLED PER MANUFACTURER'S PRINTED INSTALLATION MANUAL.
- FOR PROJECTS WITH EXISTING DUCTS, PERFORM DUCT CLEANING PER THE "NATIONAL DUCT CLEANERS ASSOCIATION". CLEAN EXISTING DIFFUSERS, GRILLES AND REGISTERS WITHOUT DAMAGING PAIN OR COATING. IF THE DAMAGE IS EXISTING, INFORM ARCHITECT AND TAKE PHOTOS BEFORE PERFORMING CLEANING PROCEDURE.

SPECIAL HANGING REQUIREMENTS

- FOR ALL ITEMS AND EQUIPMENT BEING SUPPORTED FROM ROOF DECK, SUBMIT COORDINATION DRAWINGS CLEARLY SHOWING DETAILS OF FIELD CONNECTIONS. ANCHORAGE, AND THE RELATIONSHIP TO THE WORK OF OTHERS.
- MECHANICAL CONTRACTOR TO PROVIDE HANGER SUPPORTS AND SEISMIC BRACING AS NEEDED PER LATEST SMACNA SEISMIC RESTRAINT MANUAL. SUBMIT SHOP DRAWING AND HANGER DATA SHEET FOR APPROVAL.

OF TESTING SIGNED BY THE INDIVIDUAL RESPONSIBLE FOR OPERATING THESE SERVICES.

- 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 HEIR 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.

ANY REFERENCE TO THE DESIGN AUTHORITY SHALL MEAN MR ENGINEERING, INC.

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:
- 2022 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.
- 6. <u>RESPONSIBILITY</u> VISIT THE SITE BEFORE SUBMITING 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 RESPONSIBLITY 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 O ORDERING. AFTER 10 DAYS FROM CONTRACT AWARD, SUBMIT DUCT SHOP DRAWINGS TO ARCHITECT FOR ENGINEERS REVIEW.
- 10. 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 LABELLING 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.
- 11. <u>OPERATING AND MAINTENANCE MANUALS</u> 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.
- 12. <u>SERVICES</u> 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.
- 13. 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.
- 14. CLEAN UP MAKE GOOD AND CLEAN ALL AREAS DISRUPTED BY THIS WORK.
- 15. 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.
- 16. 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 13 FILTERS. FILTER.

TEST ALL EQUIPMENT.

17. DUCTWORK

TO ASSURE THAT ALL FUNCTIONS AND PERFORMANCE ARE AS INDICATED ON THE MANUFACTURER'S RATING. ALL EQUIPMENT SHALL BE BALANCED AND TESTED TO PROVIDE THE OWNER WITH FUNCTIONING SYSTEMS. THE HVAC SYSTEMS SHALL HAVE A MINIMUM OF ONE YEAR WARRANTY ON ALL PARTS AND LABOR OR LONGER AS AGREED BETWEEN OWNER AND CONTRACTOR.



YMBOL

-R-R-R-

- M0.1 M0.2 M0.3 M0.4 M2.1 M3.1 M3.2 M4.1 M4.2 M4.3 M4.4 M4.5
- M4.7
- M4.8

- - M4.6

	MECHANICAL LEGE	ND	
ABBREV	DESCRIPTION	ABBREV	DESCRIPTION
POC	POINT OF CONNECTION	EQPT.	EQUIPMENT
POD	POINT OF DISCONNECTION	KW	KILOWATT
	EXISTING EQUIPMENT OR PIPING TO REMAIN	LBS	POUNDS
	NEW EQUIPMENT OR PIPING	MAX	MAXIMUM
	REMOVE EXISTING EQUIPMENT OR PIPING	MECH	MECHANICAL
FD	FLEX DUCT	MFR	MANUFACTURER
	SIDEWALL REGISTER	MIN	MINIMUM
	CEILING SUPPLY DIFFUSERS	MTD	MOUNTED
	CEILING RETURN DIFFUSERS	(N)	NEW
	CEILING EXHAUST DIFFUSERS	NOS	NUMBERS
	DUCT SECTION - SUPPLY AIR	OBD	OPPOSED BLADE DAMPER
	DUCT SECTION – RETURN AIR	OSA	OUTSIDE AIR
	DUCT SECTION – EXHAUST AIR	HP	HORSEPOWER
	SUPPLY AIR DUCT DOWN	HR	HOUR
	RETURN AIR DUCT DOWN	QTY	QUANTITY
	EXHAUST AIR DUCT DOWN	RA	RETURN AIR
	CARBON DIOXIDE (CO2) SENSOR/DETECTOR	RG	RETURN AIR GRILLE
	ROOM THERMOSTAT/TEMPERATURE SENSOR	RAD	RETURN AIR DUCT
	DOOR UNDERCUT	RR	RETURN AIR REGISTER
	DUCT SMOKE DETECTOR	SA	SUPPLY AIR
VD	VOLUME DAMPER	SAD	SUPPLY AIR DUCT
CD	CEILING DIFFUSER	SR	SUPPLY AIR REGISTER
BTU	BRITISH THERMAL UNITS	SF	SQUARE FEET
BTUH	BRITISH THERMAL UNITS PER HOUR	FSD	SMOKE/FIRE DAMPER
CFM	CUBIC FEET PER MINUTE	SS	STAINLESS STEEL
DWGS	DRAWINGS	TEMP	TEMPERATURE
DG	DOOR GRILLE	TYP	TYPICAL
SFD	COMBINATION SMOKE/FIRE DAMPER	TA	TRANSFER AIR
VD	VOLUME DAMPER WITH CONCEALED REGULATOR	Т/А	TO ABOVE
	THERMOSTAT	T/B	TO BELOW
(E)	EXISTING	TR	TRANSFER REGISTER
EA	EACH	V/PH/HZ	VOLTS/PHASE/HERTZ
EAD	EXHAUST AIR DUCT	VCD	VARIABLE VOLÚME CONTROL
EAR	EXHAUST AIR REGISTER	VOL	VOLUME
EF	EXHAUST FAN	VTR	VENT THRU ROOF
HVAC	HEATING VENTILATION & AIR CONDITIONING	W/	WITH
۴F	DEGREES FAHRENHEIT	WC	WATER COLUMN
F/A	FROM ABOVE	WPD	WATER PRESSURE DROP
F/B	FROM BELOW	WT	WEIGHT
FLR	FLOOR	MUA	MAKE UP AIR
FT	FEET OR FOOT		
GALV	GALVANIZED		
GPM	GALLONS PER MINUTE		
PSI	POUNDS PER SQUARE INCH		
PSIG	POUNDS PER SQUARE INCH GAUGE		
	REFRIGERANT LINE		

EQUIPMENT IDENTIFICATION SYMBOL

EQUIPMENT TYPE

EQUIPMENT IDENTIFIER

SCOPE OF WORK

- 1. PROVIDE NEW FAN COIL UNIT WITH HEAT PUMP.
- 2. PROVIDE NEW TYPE I KITCHEN EXHAUST HOOD.
- 3. PROVIDE NEW SUPPLY FAN FOR VENTILATION.

DRAWING INDEX

MECHANICAL	SPECIFICATIONS,	LEGEND	AND	GENERAL	NOTES
MECHANICAL	SCHEDULES				
MECHANICAL	T24 FORMS				
MECHANICAL	T24 FORMS				
MECHANICAL	FLOOR & ROOF	PLAN PI	_AN		
MECHANICAL	DETAILS				
MECHANICAL	DETAILS				
MECHANICAL	HOOD DETAILS				
MECHANICAL	HOOD DETAILS				
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								FAN	
MARK	MANUFACTURER & MODEL	SERVICE	SUPPLY AIF (CFM)	E.S.P.	TOTAL C CAPA (ME	CITY	TOTAL HEAT CAPACITY (MBH)	,	ICA
FCU 1	LG LMN249HVT	AS SHOWN	600	_	24	.0	25.6	C).4
2. PRO 3. PRO	FAN COIL UNIT. VIDE WITH CONDENSATE PUMP, A VIDE WITH PROGRAMMABLE T24 A ALL PER MANUFACTURER'S RECO	APPROVED TSATS	\sim	INAL LOCATI	ON W/ OW	NER REPRI	ESENTATIVE.		
								OUT	DO
MARK	MANUFACTUR & MODEL			SERVICE			ELECTF ' PH. / HZ.	RICAL DATA	M
$\left\langle \frac{\text{HP}}{1} \right\rangle$	LG LMU481						~230/1/60	40	32
MARK	MANUF. & MODEL CAPTIVEAIRE 5424 ND-2-PSP-F	SERVICE	LXHAUS (CFM) 1725		-UP AIR CFM)	EXHAUST DUCT SIZ 14"ø		W	/IDTH 104"
MARK					-UP AIR CFM)		E S.P.	W	
1. INSTA	LL PER MANUFACTURER'S INSTRU	I ICTION.	I	I	I		I		
				K	ITCH	EN	EXHA	UST	FA
MARK	MANUF. & MODEL	LOCATION	SE	RVICE	CFM	ES (IN	5P FA N.) (RP		SONES
KEF 1	CAPTIVEAIRE DU180HFA	ROOF	KITCH	EN HOOD	1725	1.	.0 96	6	9.5
	LL AS PER MANUFACTURER'S INS			SHALL MEET	NFPA 96	STANDARD	ND PREMIUM E S FOR GREASE	E DUCT. P	
MARK	MANUF. & MODEL	LOCATION	SERVICE	CFM	ESP (IN.)	SONE		ELECTRIC	
SF	GREENHECK CSP-A3300-VG OR APPROVED EQUAL	CEILING	AS SHOWN	(1728)	0.8	4.3		/1/60	422
1/1		ION ISOLATOR KI	T, FAN TERMINA	TION CAP W	ITH BIRD S	CREEN ANI	D BACK DRAFT	DAMPER.	

DIL UNIT SCHEDULE

ELECTRICAL DATA				UNIT DIMENSIONS	UNIT	SOUND	AT (
MOCP	VOLT	PH	HZ	WIDTH X HEIGHT X DEPTH	WEIGHT (LBS.)	LEVEL dB(A)	QTY.	REMARKS
15	208–230	1	60	39-9/32" x 6-1/16" x 13-19/32"	25.6	46	2	1, 2, 3, 4

DR UNIT SCHEDULE

). A	SEER	HSPF	TOTAL COOLING CAPACITY (MBH)	TOTAL HEATING CAPACITY (MBH)	UNIT DIMENSIONS WIDTH X HEIGHT X DEPTH	TOTAL STD UNIT WT. (LBS.)	SOUND LEVEL dB(A)	REMARKS
.7	20.8	9.5	48.0	54.0	37-13/32" X 54-11/32" X 13"	192	55	1, 2, 3, 4

3. HEATING CAPACITIES ARE BASED ON INDOOR COIL EAT OF 70°F, OUTDOOR AIR OF 47°F.

4. INSTALL PER MANUFACTURER'S RECOMMENDATION.

CHEDULE

REMARKS	OPER.	MENSIONS	
REMARKS	WT. (LBS.)	HEIGHT	DEPTH
1	801	30"	54"

MARK	AIR DISTRIBUTION SCHEDULE MARK MANUFACTURER & MODEL OR EQUAL SERVICE TYPE FINISH MODULE SIZE NECK SIZE REMARKS										
CD-1	TITUS 350R OR APPROVED EQUAL	SUPPLY	CEILING	WHITE	24"x24"	24"x24"	1				
FAG-1	RUSKIN ELF6375DXH OR APPROVED EQUAL	FRESH AIR	WALL	WHITE	36"x24"	_	1				
1. INST	1. INSTALL PER MANUFACTURER'S INSTRUCTIONS.										

N SCHEDULE

ELECTRICA	_	OPER.	REMARKS
V. / PH. / HZ.	HP	WT. (LBS.)	REMARKS
208/3/60	1.0	153	1, 2, 3, 4

ENTILATED ROOF CURB AND GREASE CUP.

REMARKS
REMARKS
1, 2, 4, 5

							REV
D	UCT N	JATE	RIAL SC	HEDUI	F		
<u></u>	<u> </u>						
LOW PRESSU	RE DUCTWO	RKS W/S	.P. LESS THAN	2" W.G., L	ESS	THAN 2000 FPM	
RECTANGULAR							
		19'	" - 30" 31	" - 54"	55"-	-84"	
			ga. 22				
ROUND							
			"—23 " 24				
	_		ga. 22	-		-	
			ITH CMC 2019, L 181, WHICHE			AND FLEXIBLE	
PREVAIL.							
HEATIN	IG AN	D CC	OLING	DUCT	SY	ŚTEM	
<u>FLOW</u> CFM			<u>OR RETURN</u> DUCT SIZE			TABLE A	
.00	8"RD	OR	6" X 8"				
00	9"RD	OR	8" X 8"				
.00	10" RD	OR	10"X 8"				
00	11" RD	OR	14"X 8"	10"X 1	0"		
00	12" RD	OR	16"X 8"	12"X 1	0"		
00	13"RD	OR	18"X 8"	14"X 1	0"	12" X 12"	
00	14" RD	OR	22" X 8"	16"X 1	0"	14" X 12"	
000	16" RD	OR	28" X 8"	20"X 1		16" X 12"	
200							
	17"RD	OR	32" X 8"	24"X 1		20" X 12"	
00	18"RD	OR		28"X 1		24" X 12"	
500	20"RD	OR OR		32"X 1	U	28" X 12" 30" X 12"	
200 L	21" RD						
300	~~" ~~	OR				34" X 12"	
300 000	22" RD					1	
000	22"RD	SUPPI	Y BRANCH			TABLE	
	22" RD	SUPPL DUG	<u>Y BRANCH</u> CT SIZE			TABLE B	
DOO FLOW	22" RD	SUPPL DUG	<u>Y BRANCH</u> CT SIZE			TABLE B	
DOO FLOW DFM	5" RD	<u>SUPPL</u> DU(R 3-1/2'	<u>CT_SIZE</u>			TABLE B	

REV	D	ESCRI	PTION		DATE
	PC	COM	MENTS		07-19-23
				_	
	R	TENANT IMPROVEMENT	804	1950	
	SABOR PIRI PIRI	ROVE	800 B AVENUE SUITE 804	Y CA 91	
	SOR P		AVENUE	IAI CITY	5
	SAE	NAN	800 B	NATION	
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	San Diego, CA 92101	pnone: (619) / 93-4468 fax: (510) 509-2362 engineers@mrengcon.com	ERING		
7	San Die	phone: (fax: (engineers@	ENGINEERING	TANT	
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	Re	n. <u>6/</u>	30/23 NICA	+ \$/	
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	NO	:B23	306-	·A	4123
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JOB DRA CHE SCA	AWN ECK ALE:	l: ED:		N	CL CZ DNE
JOB DRA CHE SCA DAT	AWN ECK ALE: E:	: ED: 06		N(2)	CL CZ DNE D23

CERTIFICATE OF COMPLIANCE NRCC-MCH-E	STATE OF CALIFORNIA Mechanical Systems CALIFORNIA ENERGY COMMISSION CERTIFICATE OF COMPLIANCE NRCC-MCH-E	STATE OF CALIFORNIA Mechanical Systems CERTIFICATE OF COMPLIANCE	
RTIFICATE OF COMPLIANCE In is document is used to demonstrate compliance for mechanical systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive ath outlined in 140.4, or 141.0(b)2 for alterations.	Project Name: SABOR PIRI PIRI TENANT IMPROVEMENT Report Page: (Page 2 of 9) Date Prepared: 2023-07-19T17:41:02-04:00	Project Name: SABOR PIRI PIRI TENANT IMPROVEMENT	
Project Name: SABOR PIRI PIRI TENANT IMPROVEMENT Report Page: (Page 1 of 9) project Address: Date Prepared: 2023-07-19T17:41:02-04:00			
. GENERAL INFORMATION	C. COMPLIANCE RESULTS	F. HVAC SYSTEM SUMMARY (DRY & WET SYSTEMS) Dry System Equipment Sizing (includes air conditioners, condensers, hear	
Project Location (city) NATIONAL CITY 04 Total Conditioned Floor Area 450 Climate Zone 7 05 Total Unconditioned Floor Area 0	Table C will indicate if the project data input into the compliance document is compliant with mechanical requirements. This table is not editable by the user. If this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D., or the table indicated as not compliant for guidance.	01 02 03	
Occupancy Types Within Project: 06 # of Stories (Habitable Above Grade) 1	01 02 03 04 05 06 07 08 09 System Summary Fans/ System Terminal Box Distribution	Fauinment Category per	
estaurant	110.1, 110.2,ANDPumps 140.4(k),ANDEconomizers 140.4(c),ANDControls 110.2, 120.2,ANDControls 140.4(d),AND120.3, 140.4(d),ANDCooling Towers 110.2, 120.2,Compliance Results	Name or Item Equipment Category per Tables 110.2, 140.4(a)2 and 170.2(c)3aii Equipment Type per Tables Title 20	
PROJECT SCOPE	140.4, 170.2(c) 170.2(c) 140.4(c), 170.2(c) 140.4(f), 170.2(c) 170.2(c) 170.2(c)		
is table Includes mechanical systems or components that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in 0.4, 170.2(b) or 141.0(b)2 and 180.2(b)2 for alterations.	(See Table F) (See Table G) (See Table H) (See Table I) (See Table J) (See Table K) (See Table L) (See Table M) Yes AND AND AND Yes AND Yes AND Yes AND Yes AND Yes AND Yes Yes AND Yes Yes AND Yes Yes AND Yes AND Yes AND Yes AND Yes Yes AND Yes AND Yes Yes AND Yes Yes AND Yes <	HP-1 Unitary Heat Pumps Air-cooled, pkg (1ph ¹ FOOTNOTES: Equipment shall be the smallest size, within the available op	
Air System(s) Wet System Components Dry System Components Image: Air System Component Size Image: Air System Component Size Image: Air System Component Size	Yes AND AND AND Yes AND Yes AND Yes AND Yes AND Exceptional Conditions Mandatory Measures Compliance (See Table Q for Details) COMPLIES	140.4(a) and 170.2(c)1. Healthcare facilities are excepted. ² It is common practice to show rated output capacity on the equipment so	
Cooling Air System Pumps Electric Resistance Heat Mechanical Controls System Piping Fan Systems		³ If equipment is heating only, leave cooling output and load blank. If equip ⁴ Authority Having Jurisdiction may ask for load calculations used for com	
Mechanical Controls (existing to remain, altered or new) Cooling Towers Ductwork (existing to remain, altered or new)	D. EXCEPTIONAL CONDITIONS This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.	Dry System Equipment Efficiency (other than Package Terminal Air Cond010203	
Chillers Ventilation Boilers Zonal Systems/ Terminal Boxes	The permit applicant has indicated on Table J that natural ventilation is being utilized to meet ventilation requirements. Additional documentation may be requested by the Authority Having Jurisdiction demonstrating compliance for natural ventilation design.		
	E. ADDITIONAL REMARKS	Name or Item Size Category Rating Tag (Btu/h) Condition (°F) (°F)	
	This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.	HP-1 <65,000	
	F. HVAC SYSTEM SUMMARY (DRY & WET SYSTEMS) Space Conditioning System Information		
	OldO2O3O4O5O6System NameQuantitySystem ServingSystem StatusSpace TypeUtilizing Recovered Heat	G. PUMPS This section does not apply to this project.	
	HP-1 1 Multi-zone		
CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Compliance ID: 117190-0723-0004	Generated Date/Time: Documentation Software: Energy Code Ace CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Compliance ID: 117190-0723-0004	CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance	
Schema Version: rev 20220101 Report Generated: 2023-07-19 14:41:08	Schema Version: rev 20220101 Report Generated: 2023-07-19 14:41:08		
Ite of california Iechanical Systems California Energy Commission	state of california Mechanical Systems California Energy Commission	state of california Mechanical Systems	
RETIFICATE OF COMPLIANCE NRCC-MCH-E roject Name: SABOR PIRI PIRI TENANT IMPROVEMENT (Page 4 of 9)	CERTIFICATE OF COMPLIANCE NRCC-MCH-E Project Name: SABOR PIRI PIRI TENANT IMPROVEMENT Report Page: (Page 5 of 9)	CERTIFICATE OF COMPLIANCE Project Name: SABOR PIRI PIRI TENANT IMPROVEMENT	
Date Prepared: 2023-07-19T17:41:02-04:00	Date Prepared: 2023-07-19T17:41:02-04:00		
	J. VENTILATION AND INDOOR AIR QUALITY	L. DISTRIBUTION (DUCTWORK and PIPING)	
FAN SYSTEMS & AIR ECONOMIZERS nis section does not apply to this project.	04 05 06 07 Image: System Design OA CFM To System Design OA CFM To System Design OA CFM To Air Filtration per 120.1(c) 141.0(b)2 and	This table is used to show compliance with mandatory pipe insulation required insulation shall be protected from dam	
SYSTEM CONTROLS	System Name SF-1 System Design OA CFM Airflow ¹ 70 System Design Transfer Air CFM 0 160.2(c)21 ² NA: Not system type specified in footnote 2	01 weather shall be installed with a cove outside the conditioned space shall ha	
his table is used to demonstrate compliance with mandatory controls in 110.2 and 120.2 and prescriptive controls in 140.4(f) and (n), 170.2(c)4D 170.2(c)4L or requirements in 41.0(b)2E 180.2(b)2 for altered space conditioning systems.	08 09 10 11 12 13 14 15 16 Mechanical Ventilation Required per 120.1(c)3 ³ & 160.2(c)3 Exh. Vent per 120.1(c)4 &	Duct Leakage Testing	
Conditioned Thermostats Shut-Off Zone Demand Response Supply Air	Space Name or Item Tag Occurrence: Ture4 Conditioned # of Shower H of Nin OA Required Provided per Design 160.2(c)4 DCV or Sensor Controls per 120.1(d)3, 120.1(d)5, and 120.1(e)3 ⁶ 160.2(c)5D 160.2(c)5D 160.2(c)5D	The answers to the questions below apply to the following duct systems:	
System Name System Zoning Floor Area (ft ²) 110.2(b) & (c) ¹ , 120.2(a) Controls Controls Demand Response Temp. Reset Window Interlocks per 10.2(b) & (c) ¹ , 120.2(a) 160.3(a)2A or 141.0(b)2E & (ft ²) 160.3(a)2A or 141.0(b)2E & 120.2(b) & 160.3(a)2D 120.2(g) & 160.3(a)2B 160.3(a)2B Temp. Reset 140.4(f) & 140.4(n) & 170.2(c)4D 140.4(n) & 170.2(c)4D	(ft ²) toilets people ⁵ CFM Min CFM CFM CFM		
FCU-1 Single zone <= 25,000 ft ² Setback Occ. Sensor Occ. Sensor DR Tstat per 110.12 NA: Single zone NA: No operable windows	SABOR PIRI PIRI All others 450 67.5 DCV §120.1(d)3	11 No The scope of the project includes only	
FOOTNOTES: Gravity gas wall heaters, gravity floor heaters, gravity room heaters, non-central electric heaters, fireplaces or decorative gas appliances, wood stoves are not required to have setback thermostats.	17 Total System Required Min OA CFM 67.5 18 Ventilation for this System Complies? Yes	12 No Duct system provides conditioned air t 13 Yes The space conditioning system serves	
. VENTILATION AND INDOOR AIR QUALITY	¹ FOOTNOTES: System CFM should include both mechanical and natural ventilation for the zone/system ² Air filtration requirements apply to the following three system types per 120.1(c)1A: space conditioning systems utilizing ducts to supply air to occupiable space; supply-only ventilation	15 No The scope of the project includes exte	
J. VENTILATION AND INDOOR AIR QUALITY This table is used to demonstrate compliance with mandatory ventilation requirements in 120.1 120.2(e)3B 140.4(p) and 140.4(q) for all nonresidential and hotel/motel and d:t24refnolink/]160.2, 160.3(a)3D, 170.2(a)4N, 170.2(a)4O for high-rise residential occupancies. For alterations, only ventilation systems being altered within the scope of the permit	² Air filtration requirements apply to the following three system types per 120.1(c)1A: space conditioning systems utilizing ducts to supply air to occupiable space; supply-only ventilation systems providing outside air to occupiable space; supply side of balanced ventilation systems including heat recovery and energy recovery ventilation systems providing outside air to occupiable space; supply side of balanced ventilation systems including heat recovery and energy recovery ventilation systems providing outside air to occupiable space; supply side of balanced ventilation systems including heat recovery and energy recovery ventilation systems providing outside air to occupiable space.	15NoThe scope of the project includes exter16NoThe scope of the project includes an example and diagnostic testing in accordance w	
This table is used to demonstrate compliance with mandatory ventilation requirements in 120.1 120.2(e)3B 140.4(p) and 140.4(q) for all nonresidential and hotel/motel and d:t24refnolink/]160.2, 160.3(a)3D, 170.2(a)4N, 170.2(a)4O for high-rise residential occupancies. For alterations, only ventilation systems being altered within the scope of the permit application need to be documented in this table. In lieu of this table, the required outdoor ventilation rates and airflows may be shown on the plans or the calculations can be presented in a spreadsheet.	 ² Air filtration requirements apply to the following three system types per 120.1(c)1A: space conditioning systems utilizing ducts to supply air to occupiable space; supply-only ventilation systems providing outside air to occupiable space; supply side of balanced ventilation systems including heat recovery and energy recovery ventilation systems providing outside air to occupiable space. ³ Uniform Mechanical Code may have more stringent ventilation requirements; the most stringent code requirement takes precedence. ⁴ See Standards Tables 120.1-A and 120.1-B. 	15NoThe scope of the project includes external16NoThe scope of the project includes and and diagnostic testing in accordance via17YesAll Ductwork and plenums with press18NoAll ductwork is an extension of an exist	
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per Tables itle 20	s 110.2 and	Available ¹ 140.4(a) and 170.2(c)1	Per Design Rate	Supp.		Rated	Total Heating Ser	tal sible
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ith a cover	r suitable for	outdoor service.	nsulation covering tarder. All penetra	g chilled wate	r piping and re	efrigerant suction		
		NR/ Commo	on Use: Duct leaka			15% per	No	
system -	N40 1		NA7.5.3 require	ge of duct syst	em shall not e			
systems:	M0.1		n to outside shall for e testing per CMC	systems?	~			
ludes only d	duct system	s serving healthca	۶y	/stems?			Yes	
tioned air to	to an occupia		nstant volume, si	ngle zone, spa	ce-conditioni	ng system.		
of the ducts	ts is more tha	an 25% of the tot	al surface area of t which is construc			h asbestos.		
ludes an ex cordance wi	xisting duct s vith procedur	system that is doc res in the Referen	umented to have ce Nonresidential	been previous Appendix NA	ly sealed as co		gh field verific	ation
of an exist	ting duct sys	_	ucted to Seal Clas	s A				
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CERTIFICATE OF COMPLIANCE This form is used to document any process systems that are within the scope of the permit application and are demonstrating compliance with mandatory requirements in 120.6/160.7	CERTIFICATE OF COMPLIANCE NRCC Project Name: SABOR PIRI PIRI TENANT IMPROVEMENT Report Page: (Page)	of 6) Project Name: SABOR PIRI PIRI TENANT IMPROVEMENT Report Page: (Page 3 of 6)	
or prescriptive requirements in 140.9. This compliance document is used for newly constructed, addition and alteration projects.Project Name:SABOR PIRI PIRI TENANT IMPROVEMENTReport Page:(Page 1 of 6)Project Address:800B Avenue Suite 80, National City CA 91950Date Prepared:2023-06-27T05:19:43-04:00	Date Prepared: 2023-06-27T05:19:43	D4:00 Date Prepared: 2023-06-27T05:19:43-04:00	
	C. COMPLIANCE RESULTS	H. ENCLOSED PARKING GARAGE EXHAUST	
A. GENERAL INFORMATION 01 Project Location (city) NATIONAL CITY 04 Total Conditioned Floor Area 450 02 Climate Zono 7 05 Total Unconditioned Floor Area 0	Results in this table are automatically calculated from data input and calculations in Tables F through R. Note: If any cell on this table says "COMPLIES with Exceptional Conditions" to Table D. Exceptional Conditions for guidance or see applicable Table referenced below.	efer This section does not apply to this project.	
02 Climate Zone 7 05 Total Unconditioned Floor Area 0 03 Occupancy Types Within Project: 06 # of Stories (Habitable Above Grade) 1	01 02 03 04 05 06 07 08 09 10 11 12 13 14 Refrigerate d Commercial Garage Parking Garage Process Compressed Elevators Escalators & Moving Computer Commercial Laboratory/ Factory Controlled Steam Multifamily	I. PROCESS BOILER This section does not apply to this project.	
• Restaurant	d Commercial Garage Process Compressed Elevators Moving Computer Commercial Factory Controlled Steam Multiframily Factory Environment Traps Pool/Spa / Space n 120.6(b) 120.6(c) 120.6(c) (See Table 120.6(c) (See Table 120.6(c) (See Table 120.6(c) (See Table N) N) N) Controlled Steam Multiframily Environment Traps Pool/Spa		
B. PROJECT SCOPE This table includes process systems that are within the scope of the permit application and are demonstrating compliance with mandatory requirements in 120.6 / 160.7 or prescriptive	WarehouseRefrigeratioExhaustBoilersAir Systems120.6(r)YWalkwaysRoomsKitchensExhaustEnvironmentTrapsPool/SpaComplia/ Spacen 120.6(b)120.6(c)120.6(c)120.6(c)(SeeTable I)120.6(e)160.7(See Table120.6(g)(See Table140.9(a)140.9(a)140.9(b)140.9(b)140.9(c)120.6(i)120.6(i)160.7Result(See TableG)HHTable I)(See Table I)(See Table I)(See Table I)(See Table IIII)(See Table IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	J. COMPRESSED AIR SYSTEMS This section does not apply to this project.	
requirements in 140.9. My project consists of: (check all that apply):	COMPL	ES K. ELEVATOR LIGHTING AND VENTILATION	
01 02 Image: Description of the second sec	D. EXCEPTIONAL CONDITIONS This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.	This section does not apply to this project.	
Refrigerated Spaces >=3,000 ft² Total (mandatory 120.6(a)) Computer Rooms (mandatory 120.6(j) and prescriptive 140.9(a)) ¹ Food /Beverage Stores >8,000 ft² cfa (mandatory 120.6(b)) Commercial Kitchen Ventilation/Exhaust (prescriptive 140.9(b)) ¹		L. ESCALATORS AND MOVING WALKWAYS SPEED CONTROLS This section does not apply to this project.	
Enclosed Parking Garage Exhaust >=10,000 cfm (mandatory 120.6(c)) Laboratory Exhaust/Factory Exhaust & Fume Hood (prescriptive 140.9(c)) ¹ Newly Installed Process Boilers (mandatory 120.6(d)) Pool/Spa (mandatory 1104 / 160.7) Compressed Air Systems Combined HP >= 25 (mandatory 120.6(c)) Controlled Environment Hoticulture (mandatory 120.6(b))	E. ADDITIONAL REMARKS This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.	M. COMPUTER ROOM SYSTEM SUMMARY	
Compressed Air Systems Combined HP >= 25 (mandatory 120.6(e)) Controlled Environment Horticulture (mandatory 120.6(h)) Elevator Lighting & Ventilation Controls (mandatory 120.6(f) / 160.7) New Steam Traps (mandatory 120.6(i)) 1 ECOTNOTES: These building features can comply using the performance method. If using the performance method for these features, compliance should be demonstrated on the	F. REFRIGERATED WAREHOUSES/SPACES	This section does not apply to this project.	
¹ FOOTNOTES: These building features can comply using the performance method. If using the performance method for these features, compliance should be demonstrated on the NRCC-PRF-E.	This section does not apply to this project.	N. COMMERCIAL KITCHEN EXHAUST AND VENTILATION This table contains all new and replacement hoods being installed within the scope of the permit application. Table N is used to demonstrate compliance with prescriptive requirements	
	G. COMMERCIAL REFRIGERATION This section does not apply to this project.	found in 140.9(b). Kitchen Ventilation 140.9(b)2	
		01 Existing kitchen hoods not being replaced as part of an addition or alteration (do not need to meet requirements) Requirements	
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N. COMMERCIAL KITCHEN EXHAUST AND VENTILATION 02 Replacement Air to Hood Compliance Method 140.9(b)1A	R. Pool & SPAs	DOCUMENTATION AUTHOR'S DECLARATION STATEMENT I certify that this Certificate of Compliance documentation is accurate and complete.	
Of the providing replacement air directly to the hood(s) that does not exceed 10% of the hood(s) exhaust rate 03 Mechanically cooled or heated makeup air delivered to any space with a kitchen hood is designed per 140.9(b)2A to not exceed the greater of:	This section does not apply to this project.	Documentation Author Name: Documentation Author Signature: Radiustrian RAMIL BATIANCILA Company: MR ENGINEERING CONSULTANTS, INC. Signature Date: 2023-06-27	AVENUU AL CIT
Of The supply flow required to meet the space heating and cooling load 04 Location that is supplying transfer air: 05 The kitchen/ dining facility has a total Type I and Type II kitchen hood exhaust airflow > 5000 cfm and is designed to have one of the following per 140.9(b)2B:	S. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION Selections have been made based on information provided in this document. If any selections have been changed by permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at	Address: 39210 STATE ST. STE 106 CEA/ HERS Certification Identification (if applicable): City/State/Zip: FREMONT, CA 94538 Phone: 510-509-2362	
05 Interviewer in the interviewer interviewe	https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCI/	RESPONSIBLE PERSON'S DECLARATION STATEMENT I certify the following under penalty of perjury, under the laws of the State of California: 1. The information provided on this Certificate of Compliance is true and correct.	SAB BOO B A NATIONA
O1 Kitchen Name or Item Tag SABOR PIRI PIRI Compliance Method per 140.9(b)1B Type1 hood design exhaust rates do not exceed the maximum allowed per <u>§140.9(b)1</u> as documented below	NRCI-PRC-01-E - Covered Process	 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. 	
02 03 04 05 06 07 08 Name or Item Tag Hood Type ¹ Hood Style Hood Length (ft) Equipment Duty Design Hood Exhaust Rate CEM Max Hood Exhaust Rate Allowed CEM	T. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE	 4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application. 5. I will ensure that a completed signed copy of this Certificate of Compliance is required to the building permit(s) issued for the building, and made available to the enforcement agency for all applicable understand that a completed signed copy of this Certificate of Compliance is required to the building permit(s) issued for the building are validable to the building ourse at occupancy. 	
HagType IWall-mounted Canopy8.75Heavy Duty17252450	Selections have been made based on information provided in this document. If any selection have been changed by permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and must be completed through an Acceptance Test Technician Certification Provider (ATTCP). For more information visit: http://www.energy.ca.gov/title24/attcp/providers.html	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: LEVI MALABUYO Responsible Designer Signature: Company: MR ENGINEERING CONSULTANTS, INC. Date Signed: 2023-06-27	
¹ FOOTNOTES: Type II hoods do not have a max hood exhaust air rate per 140.9(b)1B	Form/Title Systems/Spaces To Be Verified	Address: 39210 STATE ST. STE 106 License: M26141 City/State/Zip: FREMONT, CA 94538 Phone: 510-509-2362	1 6th Ave. #311 90. CA 92101 (619) 793-4468 (619) 509-2362 9mengeon.com .inrengeon.com
O. LABORATORY AND FACTORY EXHAUST AND FUME HOODS This section does not apply to this project.	NRCA-PRC-02-F Kitchen Exhaust SABOR PIRI PIRI		Diego. CJ Alt eth A ne: (619) 7 me: (619)
P. CONTROLLED ENVIRONMENT HORTICULTURE			111- San Diego Phone: (6 Phone: (6 Phone: (6 Phone: 6 Phone: 7 Phone: 7 Pho
This section does not apply to this project.			
Q. STEAM TRAPS IN INDUSTRIAL FACILITIES This section does not apply to this project.			
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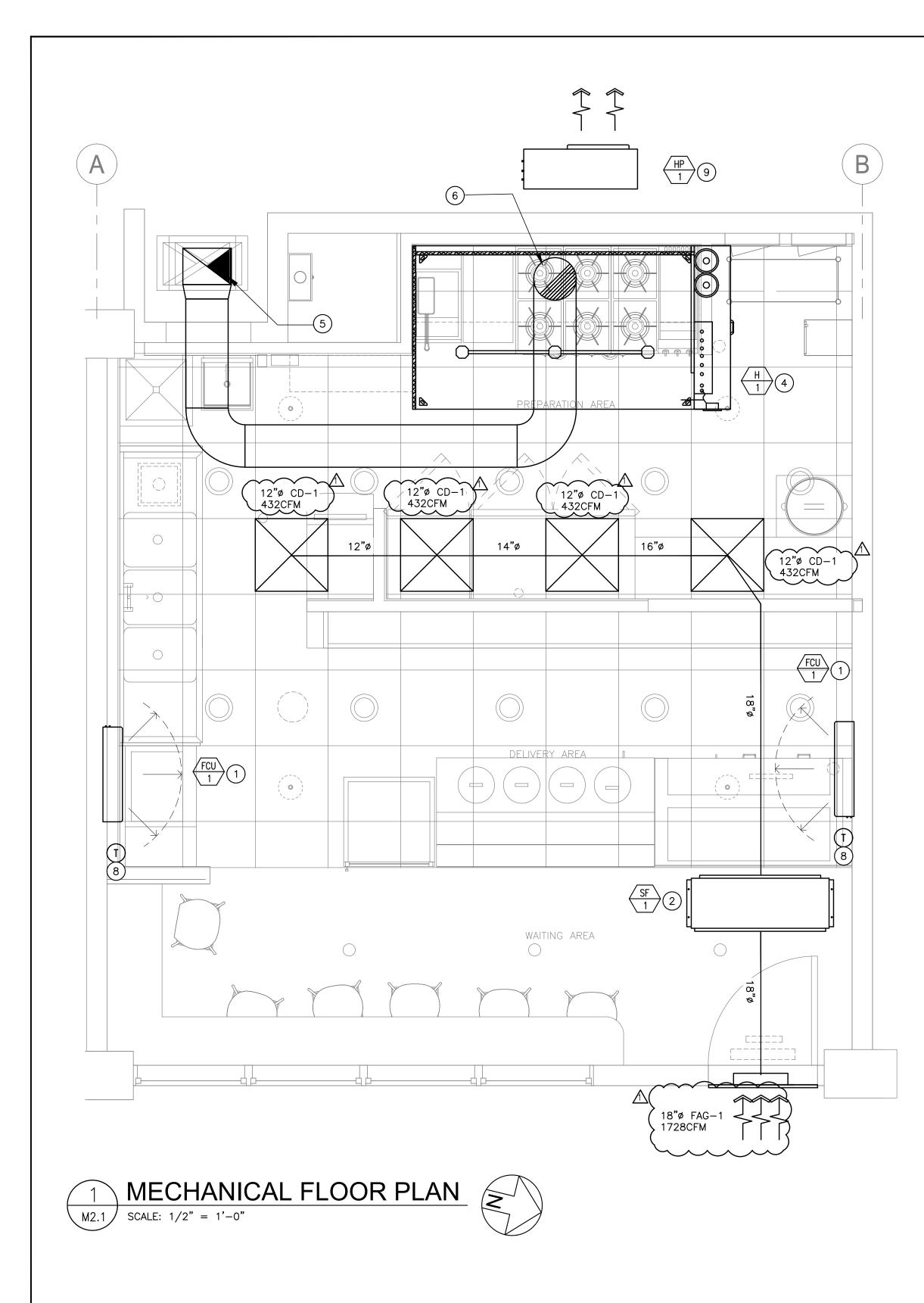
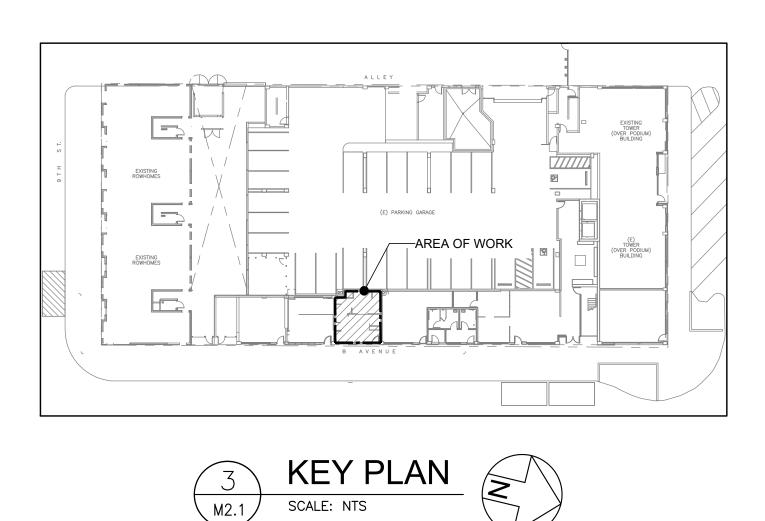


Table 1 - Grease Duct and Building Heating Appliance Chimney Clearances

Duct Model	Inner Diameter (ID)	Outside Diameter	Clearance to Combustibles	Clearance to Non-Combustibles	
DW	5"-36"	= ID	18" ⁽¹⁾	0"	
DW - 2R	5"-16"	ID + 4	3/4" (2)	0"	
	18"	ID + 4	1" (3)	0"	
DW - 2R TYPE HT	5"-16"	ID + 4	2" (4)	0"	
DW - 3R	5"-24"	ID + 6	3/4" (5)	0"	
DW - 3Z	5"-36"	ID + 6	0" (6)	0"	





SCALE: NTS

A. CONTRACTOR SHALL VERIFY IN THE FIELD FOR EXACT LOCATION OF ALL DUCTING/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.

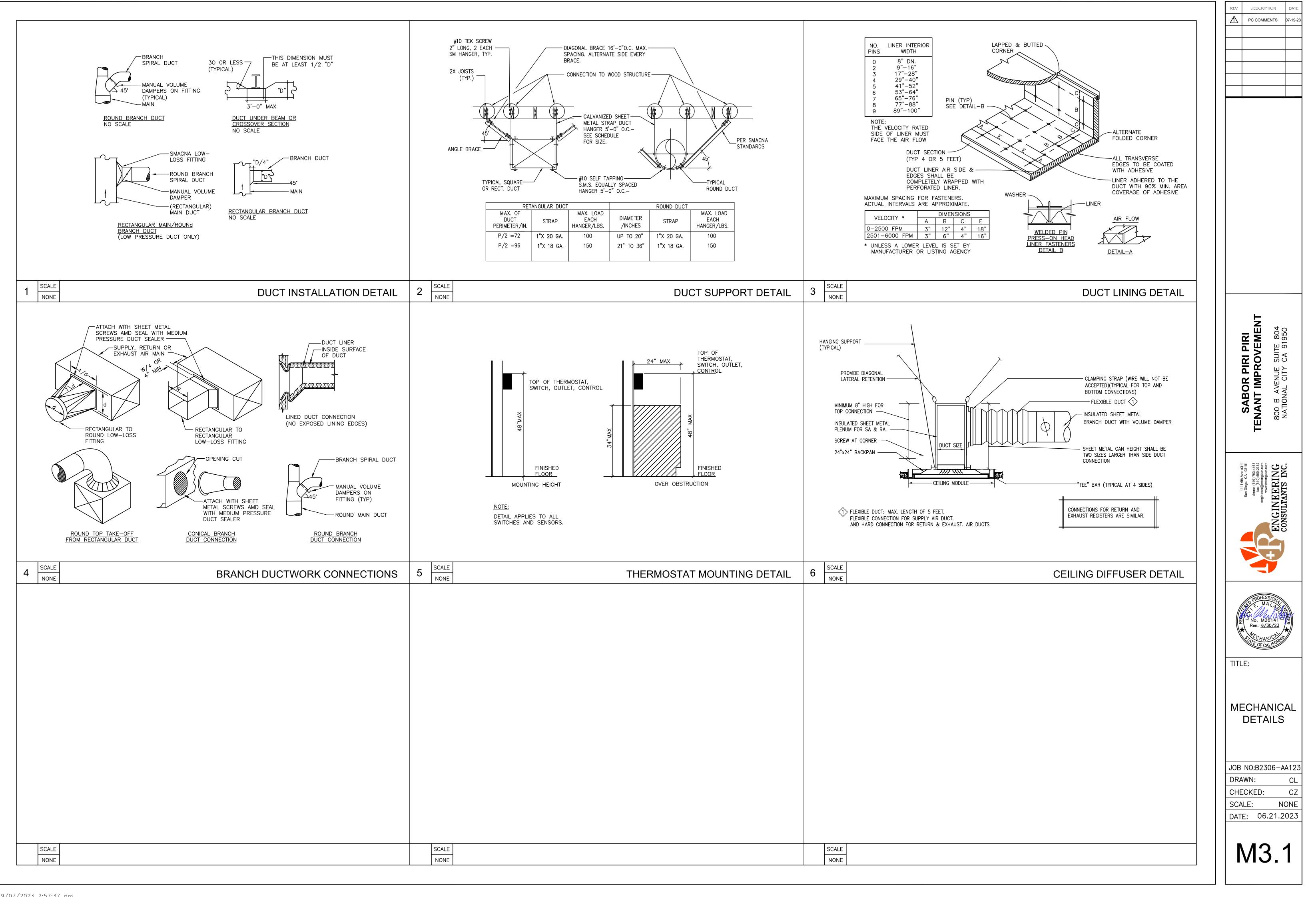
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- B. ALL DUCTING/PIPING LOCATIONS ARE DIAGRAMMATIC. CONTRACTOR SHALL COORDINATE WITH ALL TRADES AND OWNER'S REPRESENTATIVE AND VERIFY EXACT ROUTING PRIOR TO START OF WORK.
- C. FINAL THERMOSTAT/REMOTE SENSOR SHALL BE COORDINATED WITH THE ARCHITECT AND GENERAL CONTRACTOR FOR APPROVAL PRIOR TO INSTALLATION.
- D. CONTRACTOR SHALL PERFORM AIR BALANCING AS PART OF TESTING AND COMMISSIONING ACTIVITIES OF ALL HVAC SYSTEM AND EQUIPMENT. DURING THE SAID ACTIVITY, ALL SUPPLY AND EXHAUST AIRFLOW RATES SHALL BE VERIFIED IN ACCORDANCE WITH 2022 CMC SECTION 508.10.1.2 THROUGH SECTION 508.10.1.5.
- E. MECHANICAL HOOD SHOULD SHOULD COMPLY WITH CMC TABLE 508.10.1.3 AND FOR MEDIUM DUTY COOKING ONLY.
- F. PROVIDE YOUNG REGULATOR BALANCING DAMPER AS NEEDED FOR THE DIFFUSER THAT IS NOT ACCESSIBLE FOR BALANCING.
- G. CONTRACTOR TO PROVIDE ACCESS PANEL TO ALL MECHANICAL EQUIPMENTS FOR MAINTENANCE IF NOT READILY ACCESSIBLE. COORDINATE WITH ARCHITECT.

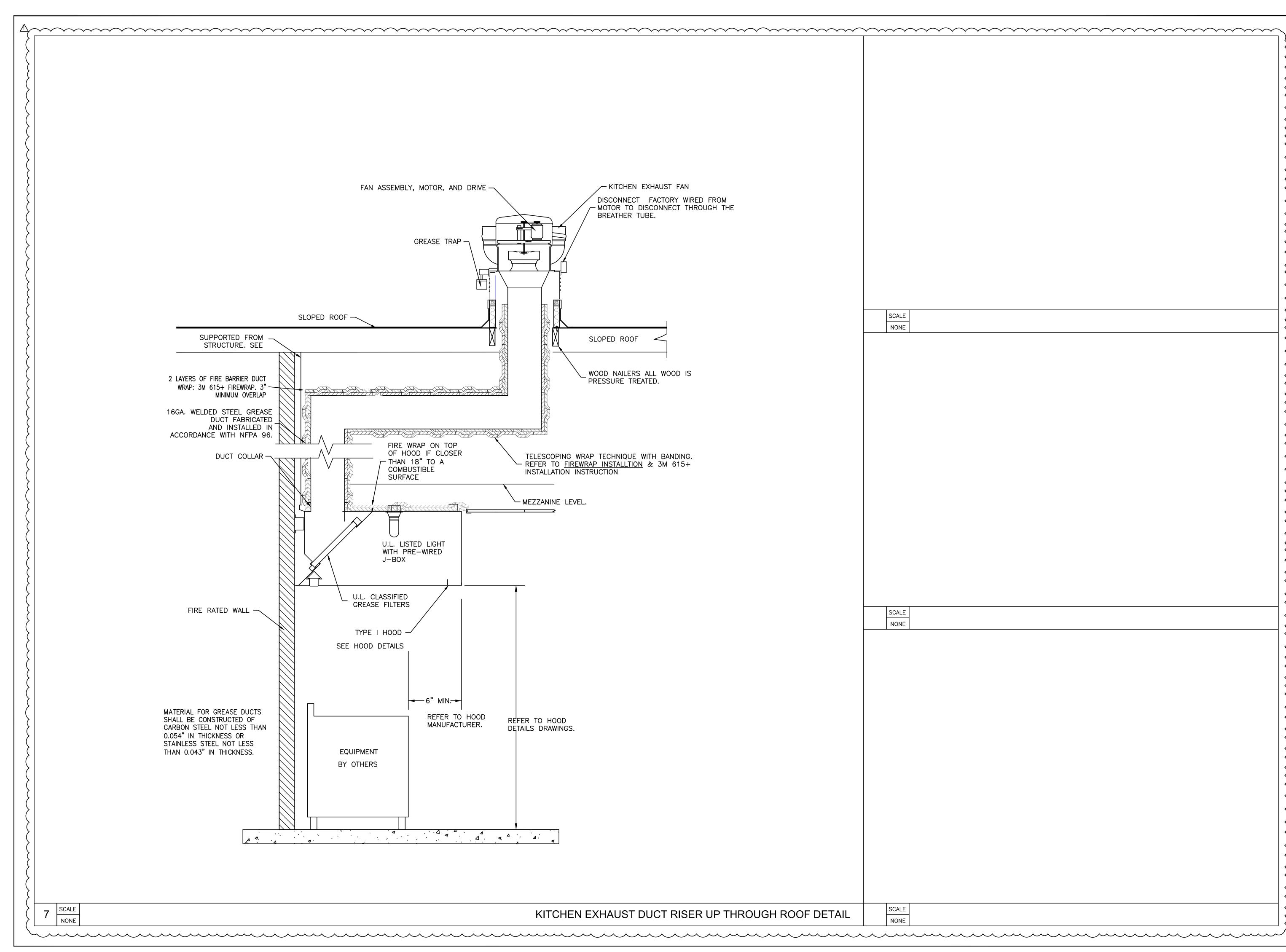
<u>KEY NOTES</u>

- 1 NEW WALL MOUNTED FAN COIL UNIT. SEE SHEET MO.2 FOR UNIT SPECIFICATION.
- 2 NEW INLINE SUPPLY FAN. SEE SHEET MO.2 FOR UNIT SPECIFICATION.
- 3 NEW KITCHEN EXHAUST FAN. SEE SHEET MO.2 FOR UNIT SPECIFICATION.
- (4) NEW TYPE I HOOD. REFER TO SHEETS MO.2 AND M4.1 TO M4.8 FOR THE EQUIPMENT DETAILS AND SPECIFICATIONS. HOOD SHALL BE SECURED IN PLACE TO RESIST THE LATERAL LOADS.
- 5 16"x12" KITCHEN HOOD EXHAUST DUCT RISER T/A, CONNECT TO KEF-1.
- 6 14"Ø EXHAUST DUCT CONNECTION TO NEW TYPE I HOOD.
- 7 FAN DISCHARGE SHALL BE FORTY(40) INCHES ABOVE THE ROOF SURFACES AND SHALL HAVE A MINIMUM OF TEN (10) FOOT CLEARANCE FROM ANY OUTSIDE AIR INTAKE. IF AN EXHAUST FAN SHALL BE EXTENDED BY MEANS OF SHROUD ON ROUND FANS TO MEETS THE THREE (3) FEET VERTICAL CLEARANCE REQUIREMENT.
- 8 FCU THERMOSTAT. COORDINATE WITH ARCHITECT. REFER TO DETAIL #5/M3.1 FOR MOUNTING.
- 9 NEW HEAT PUMP UNIT. SEE SHEET MO.2 FOR UNIT SPECIFICATION.

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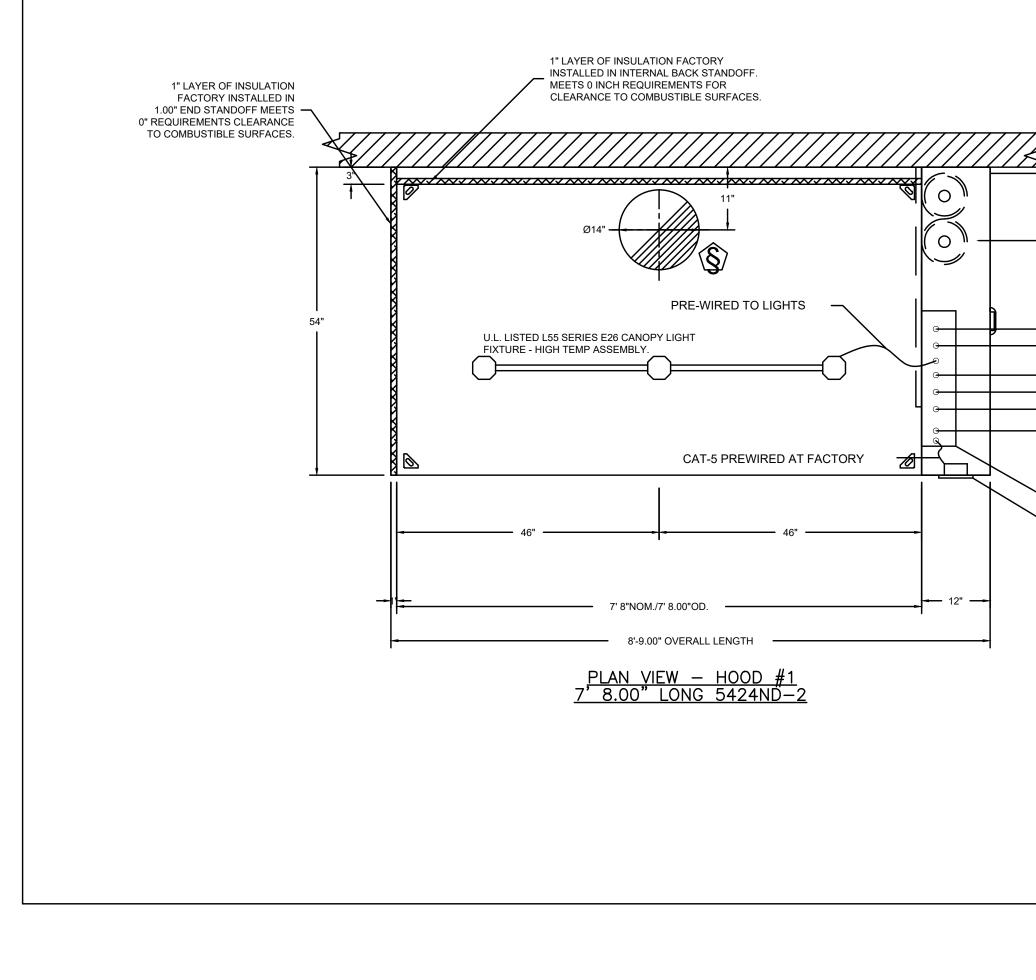


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		FOR QUESTIONS, CALL Inland Empire REGION 102 PHONE: (951) 231-5102 EMAIL: reg102@captiveaire.c		E	-		NUMBERS OODS ND-2/BE	0-2/SND-2	(CANADA) - C		NT 25204	35 C.											
		<u>ORMATION – JOB#0</u> 	<u>606</u>	57442	МАХ			DEGION	TOTAL				UST PL RISER(S					HOOD	CONFIG				
HOOD NO	TAG	MODEL MANUFACTURE	ER	LENGTH	COOKING TEMP	TYPE	APPLIANCE DUTY	DESIGN CFM/FT	EXH CFM	WIDTH	LENG	HEIGHT	,	CFM	VEL	SP		N END TO END	ROW				
1		5424 ND-2	=	7' 8"	600 DEG	I	HEAVY	225	1725			4"	14"	1725	1614	-0.711"	430 SS WHERE EXPOS	ALONE	ALONE				
HOOD	INF	ORMATION	!											<u> </u>									
				FILTER(S	5)	1			1	LIGHT(S	5)		_						ABINET(S)			FIRE	HOOD
HOOD NO	TAG	TYPE	QT	TY HEIGHT	LENGTH	EFFICIEN	CY @ 7 MICRC	NS QTY		TYPE		WIR GUAF		CATION	J	SIZE	TYPE	RE SYSTEM	IZE	ELECTRICAL MODEL #	SWITCHES QUANTITY	-SYSTEM	HANGING WEIGHT
1		CAPTRATE SOLO FILTER	5	5 20"	16"	85% SE	E FILTER SPE	с з	L55	SERIES I	E26	NO		RIGHT	12"	x54"x24"	TANK FS	4.0	0/4.0	SC-310110MA	1 LIGHT 1 FAN	YES	801 LBS
HOOD	0PT	TONS																					<u> </u>
HOOD NO	TAG					OF	PTION																
NO		LEFT END STANDOFF (FINISH	HED)	1" WIDE	54" LONO	G INSULAT	ED.							1									
		INSULATION FOR TOP OF HOC	DD.											-									
1		INSULATION FOR BACK OF HC	DOD.											1									
		RIGHT WIDE VERTICAL END F 430 SS.	PANEL	L 42" TOP	WIDTH, 3	6" BOTTOM	M WIDTH, 80"	HIGH IN	SULATED														

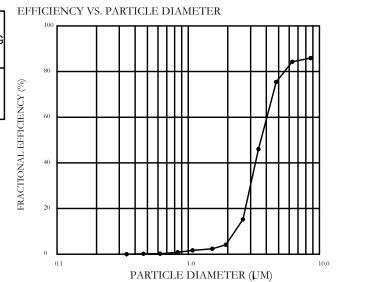


SPECIFICATION: CAPTRATE GREASE-STOP SOLO FIL THE CAPTRATE GREASE-STOP SOLO FILTER IS A SINGLE-STAGE FILTE A UNIQUE S-BAFFLE DESIGN IN CONJUNCTION WITH A SLOTTED REAR TO DELIVER EXCEPTIONAL FILTRATION EFFICIENCY.

FILTER IS STAINLESS STEEL CONSTRUCTION, AND SIZED TO FIT INTO 2-INCH DEEP HOOD CHANNEL(S).

UNITS SHALL INCLUDE STAINLESS STEEL HANDLES AND A FASTENING COMPONENTS WHEN ASSEMBLED.

GREASE EXTRACTION EFFICIENCY PERFORMANCE SHALL REMOVE AT PARTICLES FIVE MICRONS IN SIZE, AND 85% GREASE PARTICLES SEVI LARGER, WITH A CORRESPONDING PRESSURE DROP NOT TO EXCEED THE CAPTRATE GREASE-STOP SOLO WAS TESTED TO ASTM STANDAR MANUFACTURER APPROVED FOR USE IN SOLID FUEL APPLICATIONS A



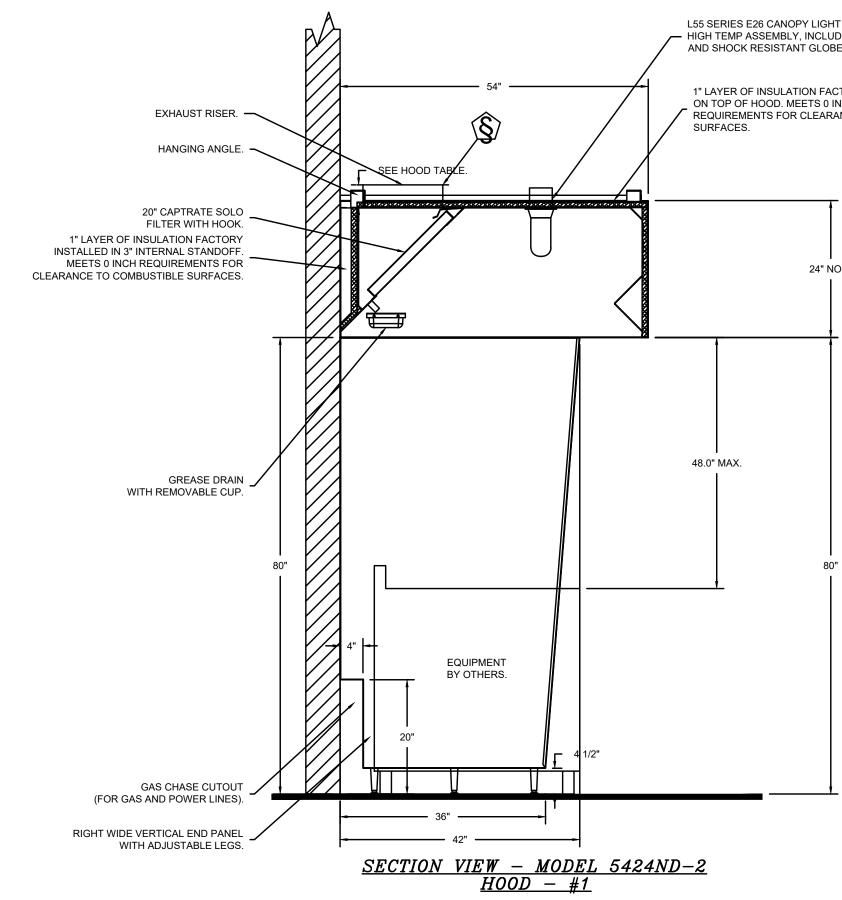


CAPTRATE FILTERS ARE BUILT IN COMPLIANCE WITH:.

NFPA #96. NSF STANDARD #2. UL STANDARD #1046.

INT. MECH. CODE (IMC).

ULC-S649.



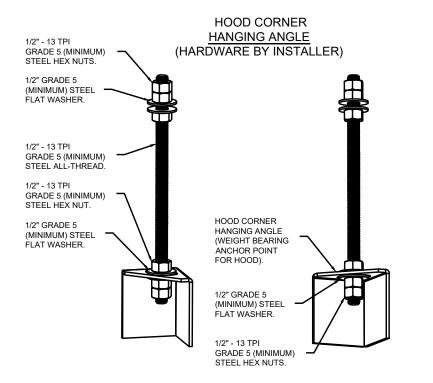
UTILITY CABINET (TYPICAL CONNECTIONS, REFER TO DETAILED WIRING DIAGRAMS FOR RESPONSIBILITY AND CONNECTIONS) - TANK FIRE SYSTEM

- BUILDING ALARM

- SHUNT TRIP BREAKER (BY ELECTRICIAN) - INPUT FOR EXHAUST/SUPPLY FAN
- OUTPUT FOR EXHAUST/SUPPLY FAN - 120V 15AMP LIGHT INPUT 120V 15AMP CONTROL INPUT
- ELECTRICAL HOOD CONTROL BOX LIGHT/FAN CONTROL INTERFACE

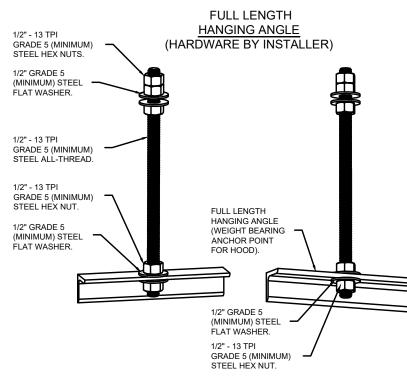
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BAFFLE DESIGN, STANDARD	
DEVICE TO SECURE THE TWO	
LEAST 75% OF GREASE IN MICRONS IN SIZE AND	
1.0 INCHES OF WATER GAUGE. D ASTM F2519-05.	www.captiveaire.com
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	SABOR PIRI PIRI TENANT IMPROVEMENT	800 B AVENUE SUITE 804	
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ASSEMBLY INSTRUCTIONS

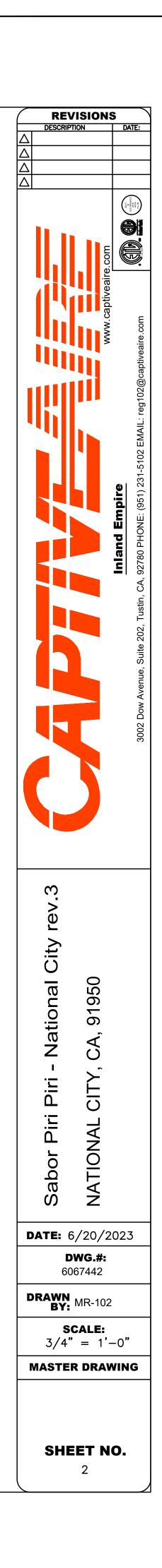
ANCHOR POINTS WITH 1/2" GRADE 5 (MINIMUM) STEEL FLAT WASHERS ANCHOR POINTS WITH 1/2" GRADE 5 (MINIMUM) STEEL FLAT WASHERS AND 1/2" - 13 TPI GRADE 5 (MINIMUM) HEX NUTS AS SHOWN. MUST USE AND 1/2" - 13 TPI GRADE 5 (MINIMUM) HEX NUTS AS SHOWN. MUST USE DOUBLED HEX NUT CONFIGURATION BENEATH HOOD HANGING ANGLES AND ABOVE CEILING ANCHORS. MAINTAIN 1/4" OF EXPOSED SINGLE HEX NUT BENEATH HANGING ANGLE IS ACCEPTABLE FOR THREADS BENEATH BOTTOM HEX NUT. TORQUE ALL HEX NUTS TO 57 FULL LENGTH HANGING ANGLES. MAINTAIN 1/4" OF EXPOSED FT-LBS.

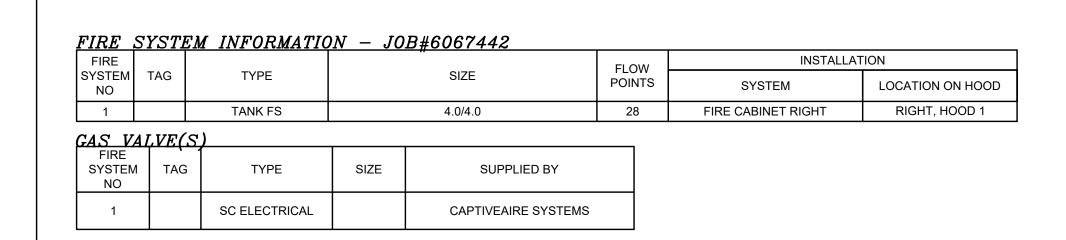


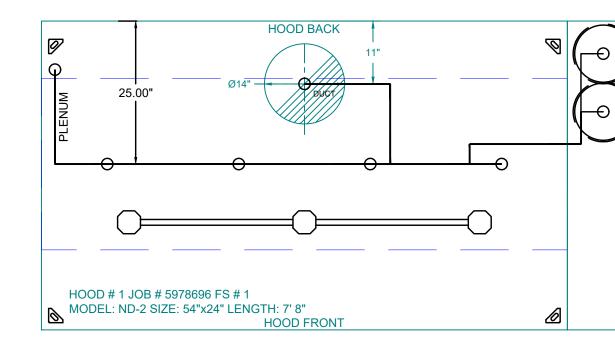
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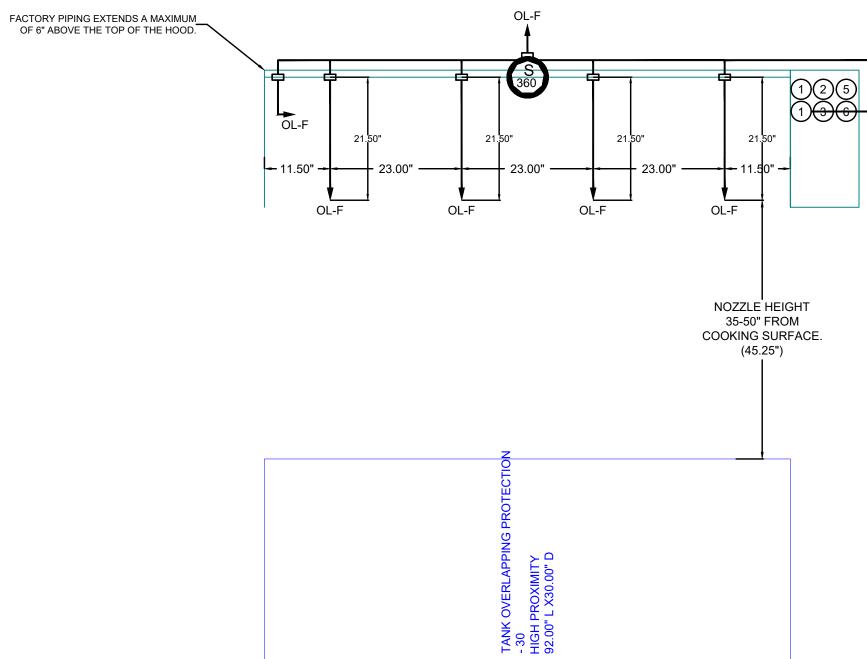
HANGING ANGLE MUST BE SUPPORTED WITH 1/2" - 13 TPI GRADE 5 (MINIMUM) ALL-THREAD. SANDWICH HANGING ANGLES AND CEILING (MINIMUM) ALL-THREAD. SANDWICH HANGING ANGLES AND CEILING DOUBLED HEX NUT CONFIGURATION ABOVE CEILING ANCHORS. THREADS BENEATH BOTTOM HEX NUT. TORQUE ALL HEX NUTS TO 57 FT-LBS.

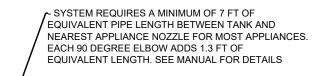
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NOTES

- FIELD PIPE DROPS AS SHOWN PIPING, ELBOWS, TEES, AND NOZZLES SUPPLIED BY CAS.
- FIELD INSTALLED DROP: FACTORY WILL PROVIDE QTY 2 60IN LONG PIECES OF CHROME PLATED PIPING SHIPPED LOOSE TO BE FIELD-INSTALLED. - SHIP LOOSE DROP: FACTORY WILL PROVIDE THE EXACT CHROME PIPE LENGTH NEEDED
- SHIPPED LOOSE TO BE FIELD-INSTALLED.
- RELOCATE NOZZLES IF FLOW PATTERN IS BLOCKED BY SHELVING,
- SALAMANDERS, ETC. - OVERLAPPING COVERAGE SHALL NOT BE USED ON ANY APPLIANCE WITH AN OBSTRUCTION. - IF APPLICABLE, EXTENDED PRE-PIPED DROPS ARE SHIPPED LOOSE.
- FACTORY PIPING EXTENDS A MAXIMUM OF 6" ABOVE THE TOP OF THE HOOD. - APPLIANCE DIMENSIONS LISTED REPRESENT THE COOKING SURFACE
- SIZE, NOT THE OVERALL APPLIANCE SIZE.

- THIS FIRE SYSTEM COMPLIES WITH U.L. 300 REQUIREMENTS.

- OL-F NOZZLE PART NUMBER REPLACES 3070-3/8H-10-SS

JOB #: 5978696. JOB NAME: SABOR PIRI PIRI - NATIONAL CITY REV.1.

SYSTEM SIZE: TANK-SP-2 TOTAL FP REQUIRED: 28. HOOD # 1 7' 8.00" LONG x 54" WIDE x 24" HIGH. RISER # 1 SIZE: 14" DIA.

HOOD # 1 METAL BLOW-OFF CAPS INCLUDED.

- HEAVY-DUTY APPLIANCES (RATED 600°F) WILL REQUIRE AN ADDITIONAL DOWNSTREAM FIRESTAT IN THE EVENT THAT THE DUCTWORK CONTAINS ANY HORIZONTAL RUNS OVER 25 FT IN LENGTH.

- MEDIUM TO LIGHT-DUTY APPLIANCES (RATED 450°F) WILL NOT REQUIRE ANY ADDITIONAL DOWNSTREAM DETECTION.

<u>LEGEND – FIRE CABINET TANK SYSTEM</u>

- 4 GALLON TANK.
- PRIMARY ACTUATOR RELEASE.
- SECONDARY ACTUATOR RELEASE.
- PRESSURE SUPERVISION SWITCH.
- PRIMARY HOSE ASSEMBLY.
- SECONDARY HOSE ASSEMBLY. REMOTE MANUAL ACTUATION DEVICE.

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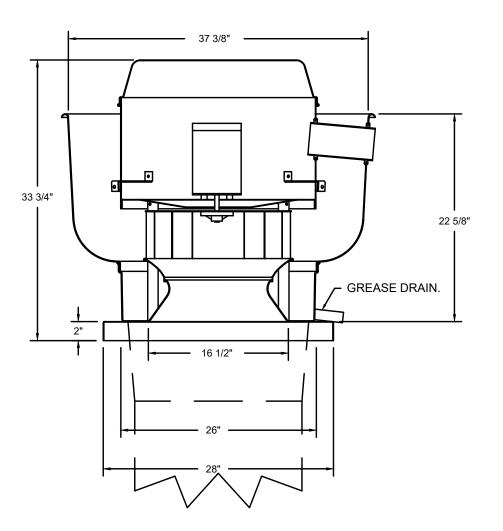
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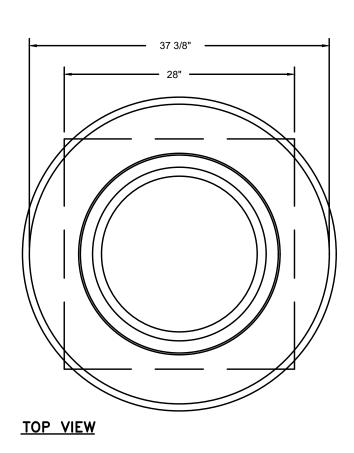
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	1	GREAS	EXHAUST	WALL	SIDE	SUP GRAVITY DAMPER	PLY MOTORIZED DAMPER	WALL MOUNT						
FAN UNIT	1	GREAS	EXHAUST	WALL	SIDE	GRAVITY	MOTORIZED							
FAN UNIT NO	1	GREAS CUP YES	EXHAUST EXHAUST GRAVITY DAMPER	WALL	SIDE	GRAVITY	MOTORIZED							
FAN UNIT NO	TAG	GREAS CUP YES	EXHAUST EXHAUST GRAVITY DAMPER	WALL MOUNT	SIDE	GRAVITY	MOTORIZED		ZE					

<u>FAN #1 DU180HFA - EXHAUST FAN</u>





FEATURES:

- DIRECT DRIVE CONSTRUCTION (NO BELTS/PULLEYS). - ROOF MOUNTED FANS.

- RESTAURANT MODEL.

- UL705 AND UL762 AND ULC-S645 - VARIABLE SPEED CONTROL.

- INTERNAL WIRING.

- THERMAL OVERLOAD PROTECTION (SINGLE PHASE). - HIGH HEAT OPERATION 300°F (149°C).

- GREASE CLASSIFICATION TESTING. - NEMA 3R SAFETY DISCONNECT SWITCH.

NORMAL TEMPERATURE TEST EXHAUST FAN MUST OPERATE CONTINUOUSLY WHILE EXHAUSTING AIR AT 300°F (149°C) UNTIL ALL FAN PARTS HAVE REACHED THERMAL EQUILIBRIUM, AND WITHOUT ANY DETERIORATING EFFECTS TO THE FAN WHICH WOULD CAUSE UNSAFE OPERATION.

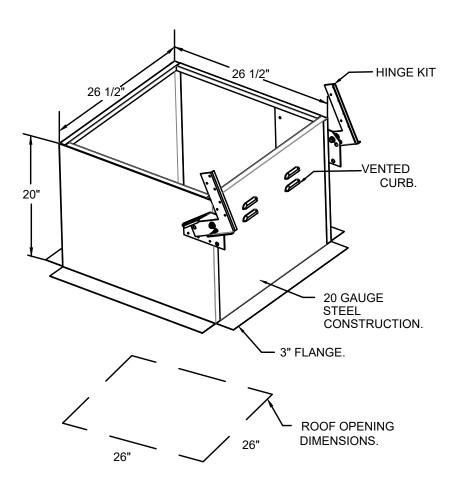
ABNORMAL FLARE-UP TEST EXHAUST FAN MUST OPERATE CONTINUOUSLY

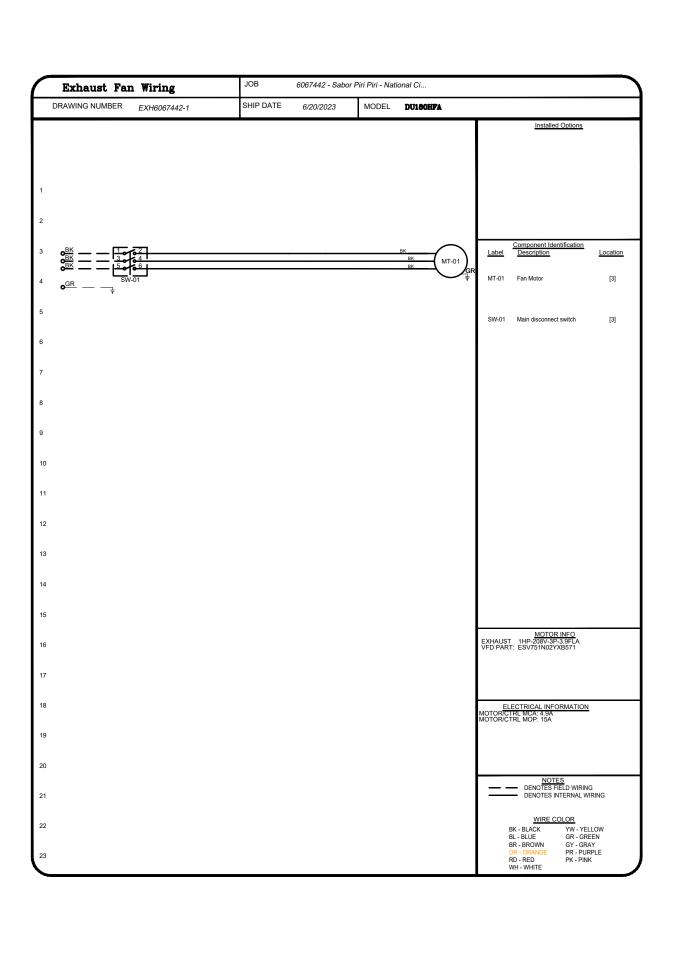
WHILE EXHAUSTING BURNING GREASE VAPORS AT 600°F (316°C) FOR A PERIOD OF 15 MINUTES WITHOUT THE FAN BECOMING DAMAGED TO ANY EXTENT THAT COULD CAUSE AN UNSAFE CONDITION.

OPTIONS

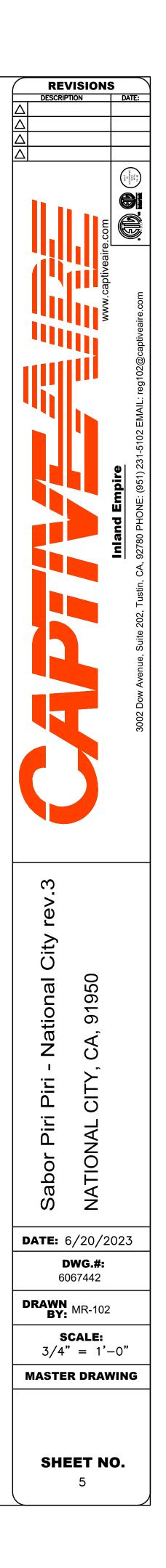
- GREASE BOX. - EXHAUST FAN HEAT BAFFLE. - 2 YEAR PARTS WARRANTY.

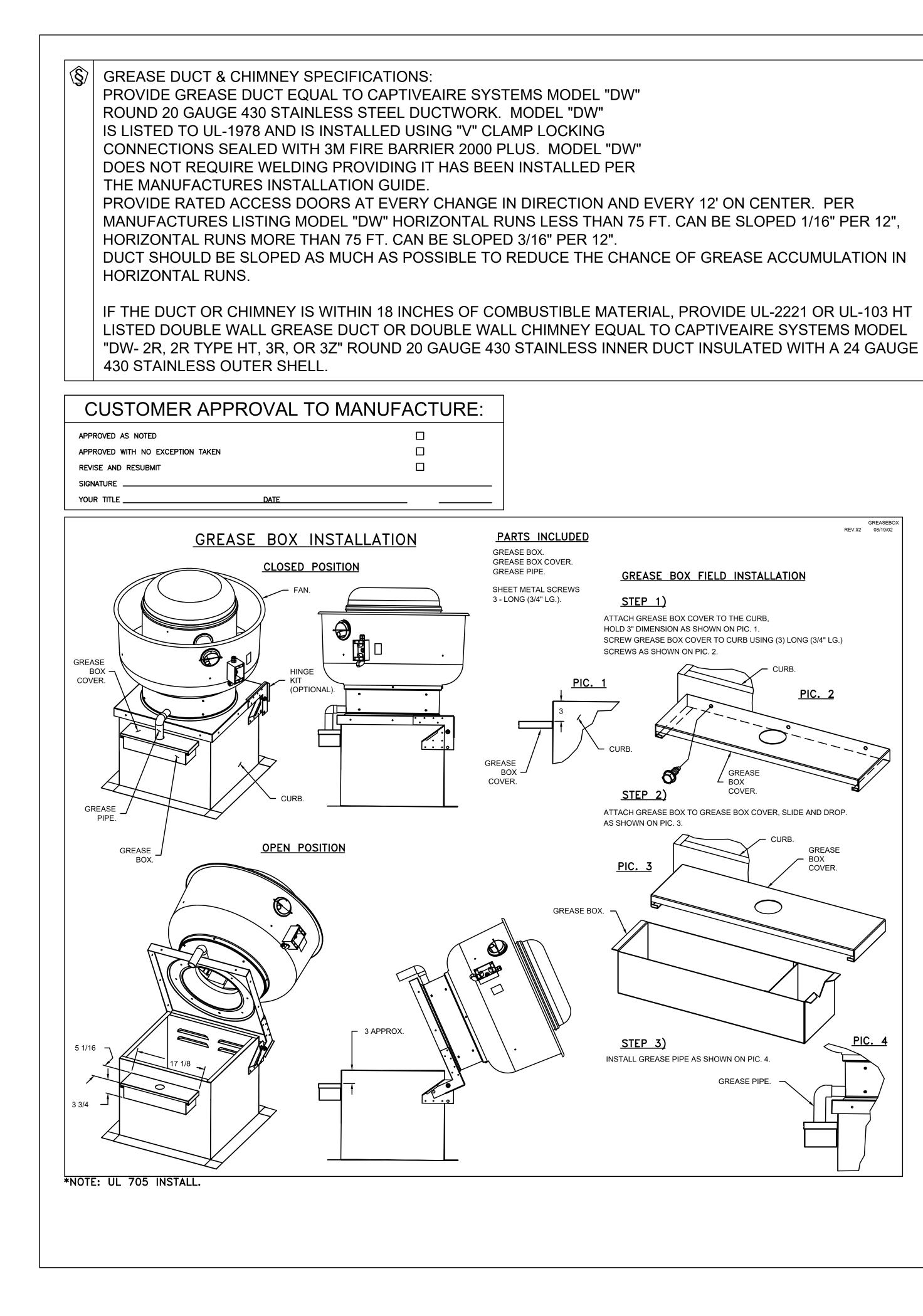
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208	3.9	398 FPM	153	9.5





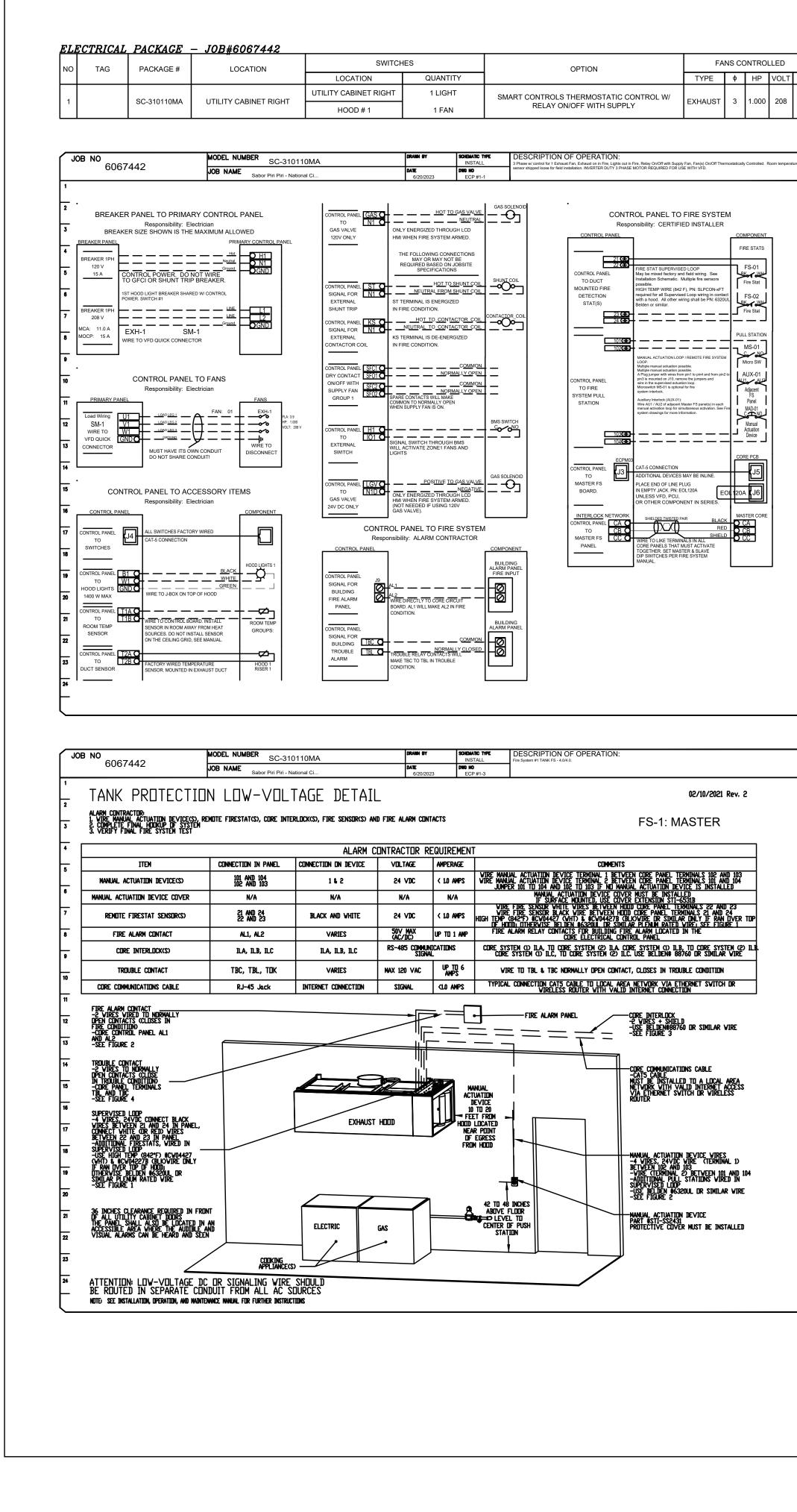
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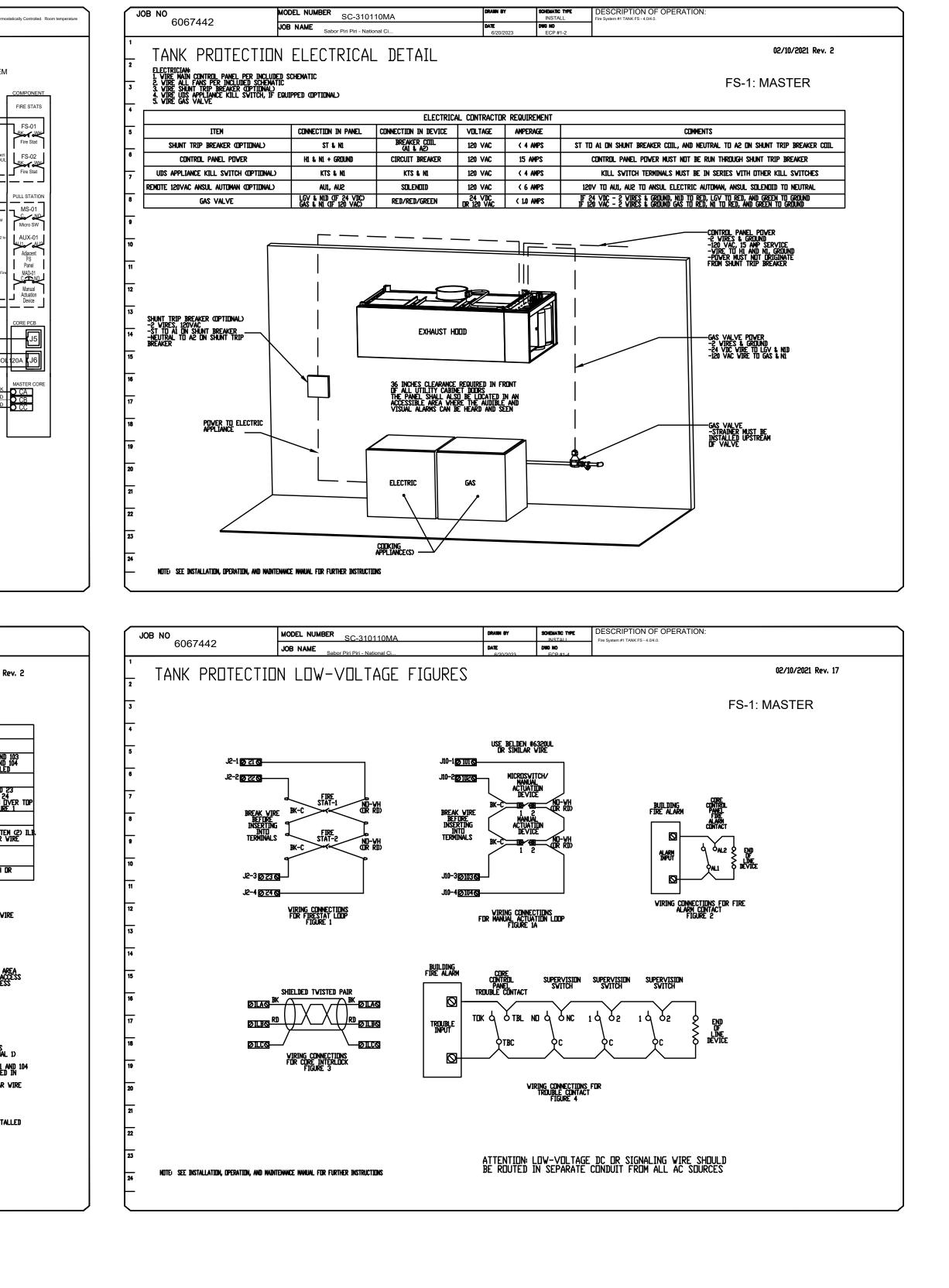




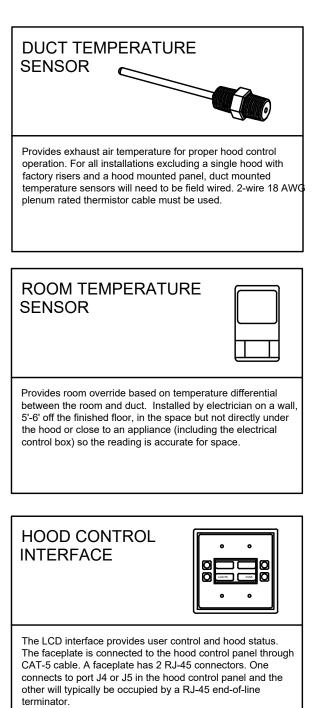
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	SABOR PIRI PIRI TENANT IMPROVEMENT	800 B AVENUE SUITE 804	NATIONAL OLI CA 91300
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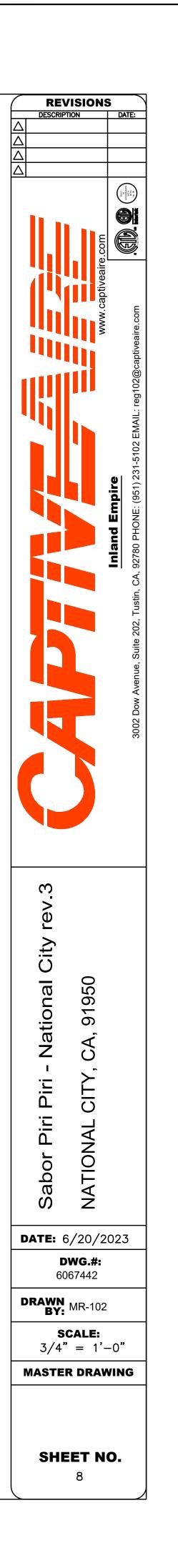
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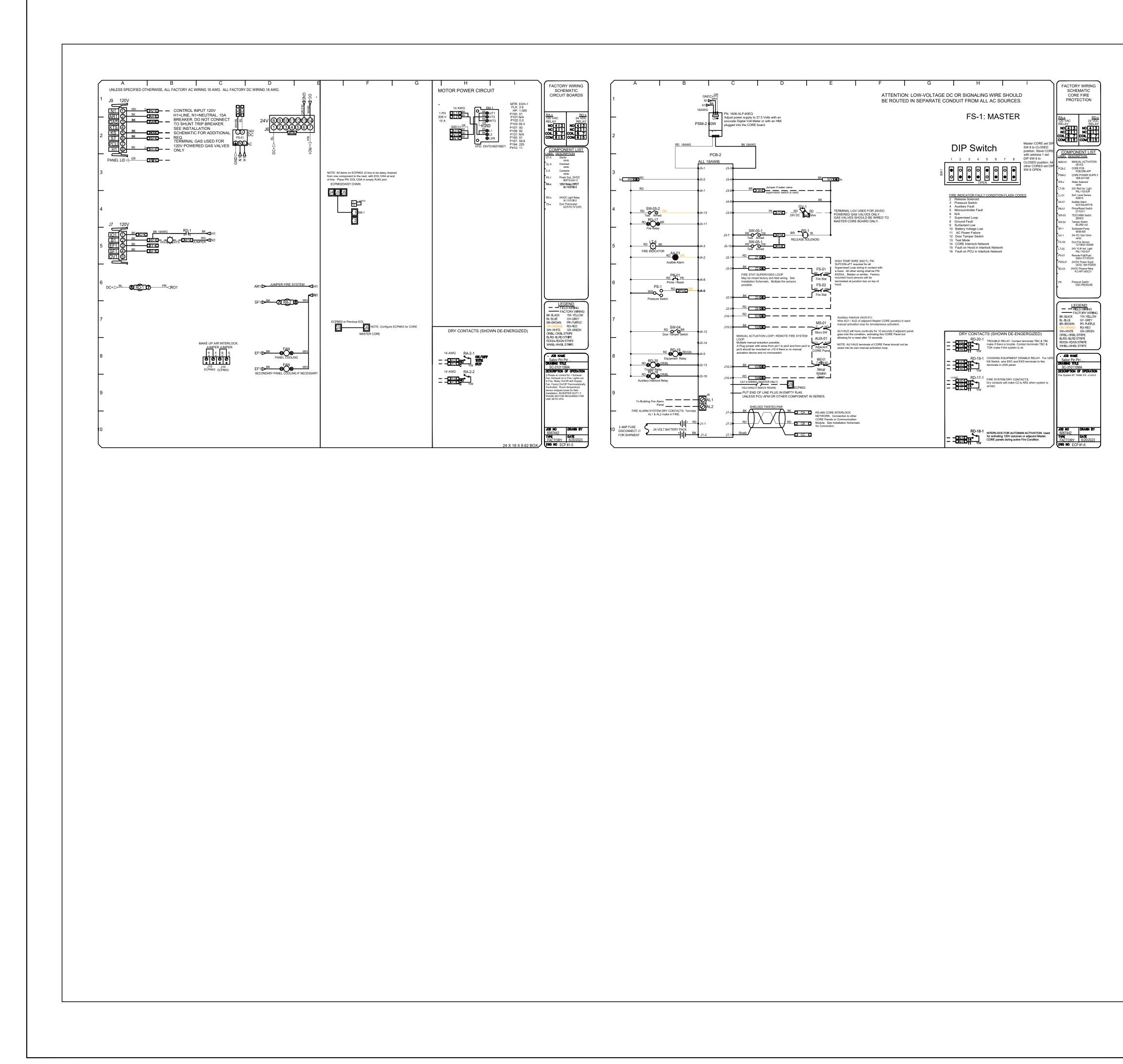


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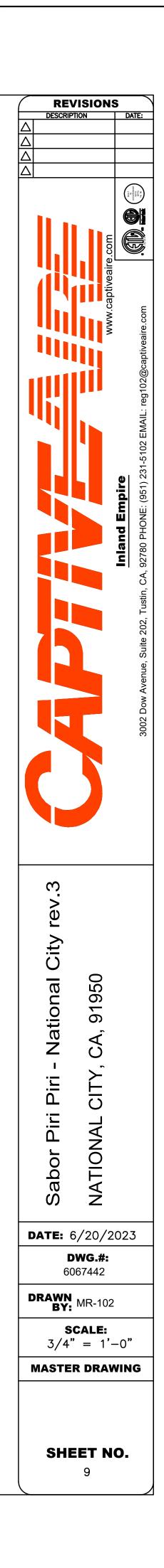




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					DUCTWO	RK #1	PARTS	- JOB#6	8067	442 DOUB
TAG	PART #	CFM	GPM	ZON E	COVEREDBY	SP	WEIGHT	VELOCITY	QTY	DESCRIPTION
P1	DW1447DWLT-3Z-S	1725				-0.018	76.70	1613.64	1	DOUBLE WALL D SHELL.
P2	DW1447DWAJD-3Z-S	1725				-0.016	109.38	1613.64	1	DOUBLE WALL A SHELL. MIN LEN CUT. INCLUDES
P3 ASSEMBLED W/P4	DW144550DWLTTP-3Z-S	1725				-0.018	74.89	1613.64	1	DOUBLE WALL D SHELL - USED W
P4 ASSEMBLED W/P3	DW2814TPDBEX	1725					9.00	1613.64	1	DUCT TO CURB IS 28.5" DESIGN
SYSTEM AT P4						-0.763	0.00			
	3M-2000PLUS						0.80		1	DUCT - 3M FIRE
TOTAL WEIGHT							270.77			

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



JBLE WALL

DUCT - 14" INNER DUCT, 47" LONG - 3 LAYERS ZERO CLEARANCE - 20" STAINLESS STEEL OUTER ALL ADJUSTABLE DUCT - 14" INNER DUCT - 3 LAYERS ZERO CLEARANCE - 20" STAINLESS STEEL OUTER LENGTH = 11" / MAX LENGTH = 48.5" / ADJUSTMENT = 30.5" / ADJUSTABLE SECTION MAY NEED TO BE DES SINGLE AND DOUBLE WALL "V" CLAMPS. L DUCT - 14" INNER DUCT, 45.5" LONG - 3 LAYERS ZERO CLEARANCE - 20" STAINLESS STEEL OUTER) WITH TRANSITION PLATE. RB TRANSITION 3/4" DOWN TURN, 28" CURB TO 14" DUCT, 16 GA ALUMINIZED. TRANSITION PLATE OD NED FOR USE WITH EXHAUST FAN. NON-STANDARD PART. RE BARRIER 2000 PLUS SILICONE - USED AS SEALANT TO SEAL DUCT JOINTS.



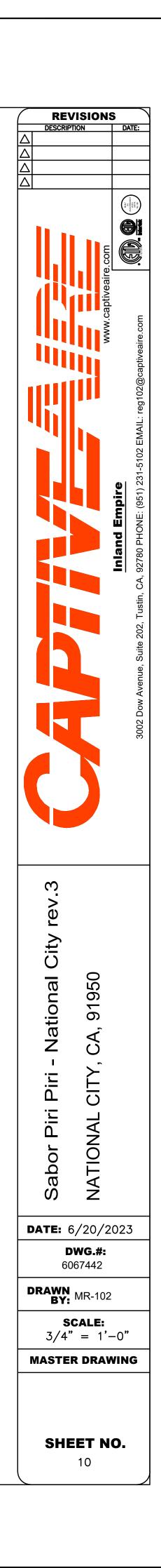
DUCTWORK #1 SE VIEW

141.5"MAX 134" 104"MIN

DUCTWORK #1 FRONT VIEW

_____ 28.50" _____

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PLUMBING GENERAL NOTES

- 1. THE ARCHITECTURAL DESIGN DRAWINGS SHALL INDICATE THE EXACT LOCATIONS AND MOUNTING HEIGHTS OF ALL PLUMBING FIXTURES. 2. THE ARCHITECTURAL DESIGN DRAWINGS SHALL INDICATE ALL ACCESSIBLE FIXTURE LOCATIONS AND MOUNTING HEIGHTS. 3. HOT WATER SUPPLY AND DRAIN PIPING AT LAVATORIES AND SINKS SHALL BE INSULATED OR OTHERWISE COVERED. ALL WATER CLOSET FLUSHING LEVERS SHALL BE TO THE WIDE SIDE OF THE STALL. 4. TRAPS FOR ALL LAVATORIES AND SINKS SHALL TRAP STRAIGHT BACK TO WALL WITH ALL REQUIRED OFFSETS HAPPENING WITHIN THE WALL. 5. ALL PLUMBING WORK SHALL BE INSTALLED TO AVOID INTERFERENCE WITH ELECTRICAL AND MECHANICAL EQUIPMENT AND STRUCTURAL FRAMING. 6. ALL CLEANOUTS SHALL BE INSTALLED WHERE EASILY ACCESSIBLE. THE CONTRACTOR SHALL COORDINATE ALL CLEANOUTS LOCATIONS WITH ALL EQUIPMENT, CABINETS AND OTHER OBSTRUCTION PRIOR TO ANY INSTALLATION. CLEANOUTS MUST BE EXTENDED TO FLUSH WITH FINISHED WALL. 7. ALL PLUMBING FIXTURE VENTS SHALL TERMINATE A MINIMUM OF 12 INCHES FROM ANY VERTICAL SURFACE AND 10 FEET FROM ANY OUTSIDE AIR INTAKES. 8. ALL VALVES, UNIONS, ETC. TO BE SAME SIZE AS PIPE UNLESS OTHERWISE INDICATED ON PLANS. 9. UNIONS SHALL BE PROVIDED AND INSTALLED AFTER EACH VALVE AND PRIOR TO ALL EQUIPMENT CONNECTIONS. 10. ALL WORK AND MATERIAL SHALL BE IN COMPLIANCE WITH AND PERFORMED AND INSTALLED IN CONFORMANCE WITH THE FOLLOWING CODES AS ADOPTED AND AMENDED BY THE INSPECTING AUTHORITY. NOTHING IN THESE DRAWINGS IS TO BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THESE CODES OR OTHERS APPLICABLE TO THIS PROJECT: BUILDING STANDARDS ADMINISTRATIVE CODE, PART 1, TITLE 24 C.C.R. 2022 CALIFORNIA BUILDING CODE (CBC), PART 2, TITLE 24 C.C.R. 2022 CALIFORNIA ELECTRICAL CODE (CEC), PART 3, TITLE 24 C.C.R. 2022 CALIFORNIA MECHANICAL CODE (CMC), PART 4, TITLE 24 C.C.R. 2022 CALIFORNIA PLUMBING CODE (CPC), PART 5, TITLE 24 C.C.R. 2022 CALIFORNIA ENERGY CODE, PART 6, TITLE 24 C.C.R. 2022 CALIFORNIA ELEVATOR SAFETY CONSTRUCTION CODE, PART 7, TITLE 24 C.C.R. 2022 CALIFORNIA FIRE CODE (CFC), PART 9, TITLE 24 C.C.R., 2022 CALIFORNIA REFERENCED STANDARDS, PART 12, TITLE 24 C.C.R. 2022 TITLE 19, CCR, PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS 2022 NFPA 13 - AUTOMATIC SPRINKLER SYSTEMS 11. BEFORE FABRICATION OR INSTALLATION THE CONTRACTOR SHALL VERIFY EXACT LOCATIONS OF ALL MECHANICAL EQUIPMENT AND EQUIPMENT PROVIDED UNDER OTHER SECTIONS OF SPECIFICATIONS. ROUGH-IN LOCATIONS AND REQUIREMENTS SHALL BE COORDINATED IN THE FIELD. 12. ALL SEWER AND VENT PIPING SHALL A MINIMUM 1/4" PER FOOT (2%) SLOPE PER CPC SEC. 708. 13. ALL VALVES, TRAP PRIMERS, WATER HAMMER ARRESTERS OR OTHER EQUIPMENT LOCATED IN WALLS OR ABOVE NON-ACCESSIBLE CEILINGS SHALL BE INSTALLED BEHIND AN ACCESS PANEL. ALL PIPING & DEVICES SHALL BE INSTALLED ABOVE CEILING, WITHIN WALLS, BELOW FLOORS, OR OTHERWISE CONCEALED, EXCEPT PIPING AND DEVICES INSTALLED IN MECHANICAL ROOMS AND OTHER UNFINISHED SPACES. 14. ALL PLUMBING FIXTURES AND EQUIPMENT SHALL BE CERTIFIED BY THE CALIFORNIA STATE ENERGY COMMISSION TO COMPLY WITH EFFICIENCY STANDARDS PER SECTION 110 OF THE TITLE-24 REGULATIONS. 15. ALL HOT WATER SUPPLY & RETURN PIPING SHALL BE INSULATED. INSULATION SHALL HAVE A FLAME SPREAD OF NOT MORE THAN 25 AND A SMOKE DENSITY NOT EXCEEDING 50 PER CMC SEC. 12.1.2.1.8 SEE SPECIFICATION FOR OTHER REQUIREMENTS. 16. PIPING THROUGH FIRE RATED WALLS SHALL BE PROTECTED PER U.L. FIRE RESISTANCE SYSTEM NO. WL1001. THE ARCHITECTURAL DESIGN DRAWINGS SHALL INDICATE ALL RATED WALL LOCATIONS. 17. SLEEVES SHALL BE PROVIDED TO PROTECT THROUGH CONCRETE FLOORS. 18. SEISMIC BRACING AND ANCHORAGE REQUIREMENTS ARE AS FOLLOWS: A. THE SEISMIC ANCHORAGE FOR ALL MECHANICAL AND ELECTRICAL EQUIPMENT SHALL BE DESIGNED TO WITHSTAND A LATERAL FORCE: 1. CALCULATED AS SPECIFIED IN SECTION 1632A AND TABLE 16A-0 OF THE VOL. 2, TITLE 24, 2022 CBC. B. THE ATTACHMENT OF THE FOLLOWING ITEMS SHALL BE DESIGNED TO RESIST THE FORCES PRESCRIBED IN PART 2, TITLE 24, 2022 CBC: 1. EQUIPMENT WEIGHING LESS THAN 400 LBS. SUPPORTED DIRECTLY ON FLOOR OR ROOF. 2. FURNITURE REQUIRED TO BE ATTACHED IN ACCORDANCE WITH PART 2, TITLE 24, C.C.R. 3. TEMPORARY OR MOBILE EQUIPMENT. 4. EQUIPMENT WEIGHING LESS THAN 20 LBS. SUPPORTED BY VIBRATION ISOLATORS. 5. EQUIPMENT WEIGHING LESS THAN 20 LBS. SUSPENDED FROM A ROOF OR HUNG FROM A WALL. 19. THE PLUMBING CONTRACTOR SHALL PROVIDE THE WATER & SEWER SYSTEMS TO A POINT OF CONNECTION 5'-0" OUTSIDE OF THE BUILDING. PIPING BEYOND THIS POINT IS SPECIFIED UNDER ANOTHER SECTION OF THE SPECIFICATIONS AND SHALL BE AS SHOWN ON THE CIVIL DRAWINGS. FINAL CONNECTIONS TO SITE PIPING SHALL BE BY THE PLUMBING CONTRACTOR. 20. WATER HAMMER ARRESTERS SHALL BE PROVIDED WHERE REQUIRED AND NECESSARY FOR AND TO ALL FIXTURES, EQUIPMENT OR APPLIANCES WITH QUICK CLOSING VALVE AND SHALL BE OF TYPE SPECIFIED. 21. ALL PIPE SIZES SHALL BE THE SAME AS THE UPSTREAM PIPE SIZES UNLESS OTHERWISE INDICATED ON PLAN. 22. CLEANOUT SHALL BE PROVIDED AS PER CPC SECTION 707. 23. NO STRUCTURAL MEMBER SHALL BE CUT, NEITHER DRILLED NOR NOTCHED WITHOUT PRIOR WRITTEN AUTHORIZATION FROM THE STRUCTURAL ENGINEER AND THE DIVISION OF THE STATE ARCHITECT. 24. THESE DRAWINGS ARE ESSENTIALLY DIAGRAMMATIC AND ARE NOT INTENDED TO INDICATE ALL DETAILS AND NECESSARY OFFSETS OF 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
- SYSTEM PERFORMANCE OR INCUR ADDITIONAL COSTS. THIS NOTIFICATION SHALL BE SUBMITTED PRIOR TO INSTALLATION OF THE ITEMS CONCERNED. 25. CONTRACTOR SHALL SIZE ALL SERVICE PIPING AND EQUIPMENT TO ACCOMMODATE FUTURE EXPANSION AS INDICATED ON THE ARCHITECTURAL DRAWINGS.
- 26. PROVIDE COMPLETE CONDENSATE DRAIN PIPING FOR ALL AC UNITS AND DISCHARGE CONDENSATE TO AN APPROVED RECEPTOR.

- 27. ALL LAYOUTS, PIPE SIZES, FIXTURE & EQUIPMENT SELECTIONS SHOWN PLANS ARE FOR REFERENCE ONLY. THE CONTRACTOR SHALL PROVIDE PLUMBING SYSTEM. THE DESIGN, CALCULATIONS, FIXTURE, TRIM, EQUIF MATERIALS SELECTIONS & DRAWINGS SHALL BE SUBMITTED FOR REVIE APPROVAL AS SPECIFIED.
- 28. INSULATION THICKNESS AND R-VALUES SHALL EXCEED THE REQUIREM 24 BY AT LEAST 20 PERCENT OR NEXT LARGER STANDARD SIZE, WH GREATER. PIPE INSULATION SHALL BE NOT LESS THAN 1.0 INCH THIC INCLUDING THE MOISTURE BARRIER OR EXTERIOR JACKET THICKNESS.
- 29. NO GAS & WATER PIPE SHALL BE INSTALLED UNDER BUILDING SLAB. WATER PIPES SHALL RISE TIGHT AGAINST EXTERIOR WALL UP TO MIN. PENETRATE INTO BUILDING. PROVIDE SHUT-OFF VALVE AND REGULATO GRADE AT INCOMING GAS RISERS.
- 30. UNDERGROUND INSTALLATION OF WATER SHALL BE IN ACCORDANCE WIT INSTALLATION OF BUILDING SEWERS SHALL BE IN ACCORDANCE WITH PROVISIONS UNDER CPC 720.1. GAS PIPING INSTALLATION SHALL BE WITH CPC 1210.
- 31. CONTRACTOR SHALL CAREFULLY REVIEW THESE PLANS AND SPECIFICA TO BID. CONTRACTOR SHALL ALSO REVIEW PLANS AND SPECIFICATION RELATED TRADES (INCLUDING MECHANICAL, CIVIL, STRUCTURAL, AND PRIOR TO BID TO INSURE AN ACCURATE UNDERSTANDING OF EXACT WORK. ANY ITEMS REQUIRING DESCRIPTION CLARIFICATION SHALL BE THE ATTENTION OF THE ARCHITECT IN SUFFICIENT TIME TO BE INCOR THE BID.
- 32. ALL PLUMBING SYSTEM COMPONENTS SHALL MEET OR EXCEED THE RE OF C.B.C. (CALIFORNIA EDITION), CMC, CPC, NEC, NFPA, ASTM, ANSI, LOCAL AND STATE CODE REQUIREMENTS.
- 33. ALL PLUMBING EQUIPMENT LISTED IN (CCR) SECTION 113 OF THE 202 CODE OF REGULATIONS, TITLE-24, PART 1, ENERGY EFFICIENCY STAND CERTIFIED BY THE MANUFACTURER TO MEET OR EXCEED SPECIFICATION EFFICIENCIES ADOPTED BY THE CEC.
- 34. ALL PIPING EXPOSED TO WEATHER SHALL BE METALLIC.
- 35. ALL FERROUS PIPING EXPOSED TO WEATHER SHALL BE GALVANIZED.
- 36. ALL PIPES, FITTINGS AND FIXTURES USED TO CONVEY POTABLE WATER LEAD FREE IN COMPLIANCE WITH CALIFORNIA AB 1953.
- 37. ALL INSULATING MATERIALS INSTALLED MUST BE CERTIFIED BY CALIFOR COMMISSION TO MEET C.E.C. ENERGY EFFICIENCY STANDARDS (E.E.S.) AND SECTION 1201.3.2.1.1 OF CMC (CALIFORNIA EDITION).
- 38. ALL INSULATION INSTALLED SHALL MEET THE FLAME SPREAD AND SMO REQUIREMENTS OF SECTION 719 OF THE 2022 CBC.
- 39. ALL FIXTURES REQUIRED TO BE ACCESSIBLE SHALL BE INSTALLED AS LATEST REQUIREMENTS OF TITLE 24 AND ADA (AMERICANS WITH DISABI

39. CROSS CONNECTION PROTECTION SHALL BE PROVIDED AT ALL POTABLE SUPPLIED APPLIANCES AND EQUIPMENT (OTHER THAN THOSE LISTED IN INF BULLETIN 103).

- 41. ALL HEATERS FOR DOMESTIC HOT WATER MUST BE CERTIFIED BY THE MANUFACTURER TO MEET THE SPECIFICATIONS OR EFFICIENCIES AS ADO THE CEC. IN ACCORDANCE WITH SECTION 110.1 OF THE CCR AND EN EFFICIENCY STANDARDS RESIDENTIAL NON-RESIDENTIAL.
- 42. TANKLESS WATER HEATERS SHALL BE NATIONALLY LISTED AND BE INST ACCORDANCE WITH THE INSTALLATION INSTRUCTIONS THAT WERE APPRO OF THEIR LISTING. THE GAS PIPING SERVING THIS APPLIANCE MUST B COMPLIANCE WITH THE WATER HEATER'S LISTED INSTALLATION INSTRUCT 2022 CALIFORNIA PLUMBING CODE.
- 43. A WATER HEATER PRESSURE AND TEMPERATURE RELIEF DRAIN THAT OUTSIDE THE BUILDING SHALL COMPLY WITH SECTION 608.5 OF CPC.
- 44. WATER HEATER SHALL BE ANCHORED OR STRAPPED TO RESIST HORIZO DISPLACEMENT DUE TO EARTHQUAKE MOTION PER SECTION 507.2 OF
- 45. WATER HEATER SHALL COMPLY WITH SECTION 608.3 OF CPC, FOR THE EXPANSION REQUIREMENTS.
- 46. LAVATORY FAUCETS IN COMMON AND PUBLIC USE AREAS SHALL NOT GALLONS PER MINUTE AT 60 PSI.
- 47. RESIDENTIAL LAVATORY FAUCETS SHALL BE 1.2 GPM MAXIMUM.
- 48. METERING FAUCETS SHALL BE 0.25 GPC MAXIMUM.
- 49. KITCHEN FAUCETS AND WASH FOUNTAINS SHALL BE 1.5 GPM MAXIMUN
- 50. WATER CLOSETS (GRAVITY TANK TYPE, FLUSHOMETER TANK, FLUSHOME ELECTROMECHANICAL HYDRAULIC TYPE) SHALL BE 1.28 GPF MAXIMUM.
- 51. URINALS SHALL NOT EXCEED 0.5 GALLONS PER FLUSH.
- 52. CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRS AND RESTORATION FINISHES DUE TO TRENCHING. FINISHES TO MATCH ARCHITECTURAL P
- 53. CONTRACTOR SHALL VERIFY EXACT POINT OF CONNECTION AND INVERT OF BURIED PIPING PRIOR TO START OF WORK.
- 54. CONTRACTOR SHALL SPECIFY PIPE SEALS FOR ALL PIPE LINES PENETR THROUGH FLOOR SLAB.
- 55. EXISTING CONDITION ARE BASED ON "AS-BUILT" DRAWINGS AND VERIFICATIONS. THE CONTRACTOR SHALL ADJUST TO ACTUAL FIE AT NO ADDITIONAL EXPENSE TO THE PROJECT. NO ADDITIONAL WILL BE PROVIDED FOR ANY EXTRAS DUE TO CONTRACTOR'S F VISIT THE PROJECT SITE & PREDETERMINATION OF EXISTING CO PRIOR TO SUBMITTING THE BID. ANY DISCREPANCIES SHALL BE REPORTED TO THE ARCHITECT/OWNER/ENGINEER FOR SOLUTION
- 56. CPC 906.1, ABS/PVC VENT TERMINATIONS UP THROUGH THE R TO SUNLIGHT ARE REQUIRED TO BE PROTECTED BY WATER BAS LATEX PAINTS.

IN WRITING OF ANY DISCREPANCIES OR CONFLICTS THAT WOULD EFFECT THE

	CALGREEN BUILDING STANDARDS CODE 2022	PLUMBING SPECIFICATIONS		PI	LUMBING LEGEND	
ON THESE A COMPLETE MENT AND V AND	<u>CHAPTER 3 – GREEN BUILDING</u> <u>SECTION 301 GENERAL</u> 301.1 SCOPE. BUILDINGS SHALL BE DESIGNED TO INCLUDE THE GREEN BUILDING MEASURES SPECIFIED AS MANDATORY IN THE APPLICATION CHECKLISTS CONTAINED IN THIS CODE. VOLUNTARY	 <u>GENERAL PROVISIONS</u> – THE GENERAL CONDITIONS, SUPPLEMENTS AND AMENDMENTS SHALL GOVERN THIS DIVISION OF THE SPECIFICATIONS. <u>PROJECT REQUIREMENTS</u> – 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. 	SYMBOL 	POC/POD SS	WATER BACKFLOW PREVENTER POINT OF CONNECTION / POINT OF DISCONNECTION SANITARY SEWER PIPING	
ITS OF TITLE CH EVER IS K, NOT	GREEN BUILDING MEASURES ARE ALSO INCLUDED IN THE APPLICATION CHECKLISTS AND MAY BE INCLUDED IN THE DESIGN AND CONSTRUCTION OF STRUCTURES COVERED BY THIS CODE, BUT ARE NOT REQUIRED UNLESS ADOPTED BY A CITY, COUNTY, OR CITY AND COUNTY AS SPECIFIED IN SECTION 101.7.	 <u>INTENT</u> – 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 AND SHOWN AND SHOWN AND SHOWN AND SHOWN AND	GW 	V CW HWS	GREASE WASTE PIPING VENT PIPING DOMESTIC COLD WATER PIPING DOMESTIC HOT WATER SUPPLY PIPING DOMESTIC HOT WATER RETURN PIPING	
AS & 18" AFF AND R ABOVE	SECTION 303 PHASED PROJECTS 303.1 PHASE PROJECTS. FOR SHELL BUILDING AND OTHERS CONSTRUCTED FOR FUTURE TENANT IMPROVEMENTS, ONLY THOSE CODE MEASURES RELEVANT TO THE BUILDING COMPONENTS AND	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. 5. ANY REFERENCE TO THE DESIGN AUTHORITY SHALL MEAN MR ENGINEERING CONSULTANTS, INC.		CD	CONDENSATE DRAIN PIPING PIPE DOWN PIPE UP PIPE BRANCH – TOP CONNECTION	
CPC 609.2. 718.3 & ACCORDANCE	SYSTEMS CONSIDERED TO BE NEW CONSTRUCTION (OR NEWLY CONSTRUCTED) SHALL APPLY. 303.1.1 TENANT IMPROVEMENTS. THE PROVISIONS OF THIS CODE SHALL APPLY ONLY TO THE INITIAL TENANT OR OCCUPANT	 THE WORK "PROVIDE" SHALL MEAN "SUPPLY AND INSTALL" UNLESS OTHERWISE INDICATED. <u>GOVERNING REGULATIONS</u> – THE WORK UNDER PLUMBING SCOPE OF WORK, SHALL CONFORM, BUT NOT LIMITED TO THE REQUIREMENTS OF THE FOLLOWING CODES, REGULATIONS AND STANDARDS: 			PIPE BRANCH – BOTTOM CONNECTION PIPE BRANCH – SIDE CONNECTION PIPE CAP PIPE SLEEVE	
ONS PRIOR OF OTHER CTRICAL) OPE OF OUGHT TO	IMPROVEMENTS TO A PROJECT. <u>CHAPTER 5 – NON-RESIDENTIAL MANDATORY MEASURES</u> <u>DIVISION 5.2 – ENERGY EFFICIENCY</u> <u>SECTION 5.201 GENERAL</u>	 A. 2022 EDITIONS OF THE CALIFORNIA BUILDING CODE, INCLUDING BUT NOT LIMITED TO THE MECHANICAL, PLUMBING, FIRE AND ENERGY CODES. B. OSHA REGULATIONS 8. PERMITS - OBTAIN ALL REQUIRED PERMITS AND PAY ALL FEES THEREFORE AND COMPLY WITH ALL LOCAL AND STATE REGULATIONS, CODES AND 		WHA	DIRECTION OF FLOW PIPE SLOPE & DIRECTION OF FALL THERMOMETER WATER HAMMER ARRESTOR PIPE BREAK	
DRATED INTO	5.201.1 SCOPE [BSC-CG] CALIFORNIA CODE [DSA-SS]. FOR THE PURPOSES OF MANDATORY ENERGY EFFICIENCY STANDARDS IN THIS CODE, THE CALIFORNIA ENERGY COMMISSION WILL CONTINUE TO ADOPT MANDATORY BUILDING STANDARDS.	 BY-LAWS APPLICABLE TO THE WORK. <u>RESPONSIBILITY</u> - VISIT THE SITE BEFORE SUBMITTING A BID AND EXAMINE ALL LOCAL AND EXISTING CONDITIONS ON WHICH THE WORK IS DEPENDENT. 	, 	WCO	WALL CLEANOUT PIPE CONTINUATION FLOOR CLEANOUT OR CLEANOUT TO GRADE FLOOR DRAIN	
) ALL CALIFORNIA DS MUST BE OR	DIVISION 5.3 – WATER EFFICIENCY AND CONSERVATION <u>SECTION 5.301 GENERAL</u> <u>5.301.1 SCOPE.</u> THE PROVISIONS OF THIS CHAPTER SHALL ESTABLISH THE MEANS OF CONSERVING WATER USED INDOORS, OUTDOORS AND IN WASTEWATER CONVEYANCE.	 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 		FS SOV PRV	FLOOR SINK SHUT OFF VALVE, PLAN / RISER PRESSURE REDUCING VALVE GAS VALVE /PLUG COCK	
	5.303.2 RESERVED. 5.303.3 WATER CONSERVING PLUMBING FIXTURES AND FITTINGS. PLUMBING FIXTURES (WATER CLOSETS AND URINALS) AND FITTINGS (FAUCET AND SHOWERHEADS) SHALL COMPLY WITH THE FOLLOWING:	INSTALLATION. 12. 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.	♀ →☆ → 禄 → 後 → 後	BLV	PRESSURE GAUGE CIRCUIT SETTER/BALACING VALVE BALANCING VALVE SOLENOID VALVE SEISMIC GAS SHUT-OFF VALVE	
HALL BE	5.303.3.1 WATER CLOSET. THE EFFECTIVE FLUSH VOLUME OF ALL WATER CLOSET SHALL NOT EXCEED 1.28 GALLONS PER FLUSH. TANK-TYPE WATER CLOSET SHALL BE CERTIFIED TO THE PERFORMANCE CRITERIA OF THE U.S.	 <u>WORKMANSHIP</u> – 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. 	 - - - - - - - - - - - -	BV CV PG TMV	BALL VALVE CHECK VALVE PRESSURE GAUGE THERMOSTATIC MIXING VALVE	RI MENT
CTION 120.3	EPA WATER SENSE SPECIFICATION FOR TANK-TYPE TOILETS. NOTE: THE EFFECTIVE FLUSH VOLUME OF DUAL FLUSH TOILETS IS DEFINED AS THE COMPOSE, AVERAGE FLUSH VOLUME OF TWO REDUCED FLUSHES AND ONE FULL FLUSH.	 <u>DRAWING AND MEASUREMENTS</u> - 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. 	 	HB	SAFETY RELIEF VENT PIPE UNION HOSE BIBB HOSE END GATE VALVE WITH HOSE CAP ABOVE FINISHED FLOOR	RI PII
r THE IES ACT). WATER MATION	5.303.3.4 FAUCETS AND FOUNTAINS. 5.303.3.4.1 NON-RESIDENTIAL LAVATORY FAUCETS. LAVATORY FAUCETS SHALL HAVE A MAXIMUM FLOW RATE OF NOT MORE THAN 0.5 GALLONS PER MINUTES AT 60 PSI.	 <u>SUBMITTALS</u> – SUBMIT THREE SETS OF ALL EQUIPMENT AND RELATED MATERIAL FOR APPROVAL PRIOR TO ORDERING. <u>RECORD DRAWINGS</u> – 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. 		AFG ARCH B/C B/G	ABOVE FINISHED GRADE ARCHITECT OR ARCHITECTURAL BELOW COUNTER BELOW GRADE	ABOR PI NT IMPR
D BY	5.303.4.2 KITCHEN FAUCETS KITCHEN FAUCETS SHALL HAVE A MAXIMUM FLOW RATE OF MORE THAN 1.8 GALLONS PER MINUTES AT 60 PSI. KITCHEN FAUCETS MAY TEMPORARILY INCREASE THE FLOW ABOVE THE MAXIMUM RATE, BUT NOT TO EXCEED 2.2 GALLONS PER MINUTES AT 60 PSI, AND	19. 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.		C.I. CCO DWG/DWGS	BELOW SLAB CAST IRON CEILING CLEAN OUT DRAWING/DRAWINGS	ENAN
ed in D as part Ized in	MUST DEFAULT TO A MAXIMUM FLOW RATE OF 1.8 GALLONS PER MINUTES AT 60 PSI. 5.303.4.3 WASH FOUNTAINS. WASH FOUNTAIN SHALL HAVE A MAXIMUM FLOW RATE OF NOT	 20. <u>OPERATING AND MAINTENANCE MANUALS</u> – 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. 21. <u>EXISTING SERVICES</u> – PROTECT ALL EXISTING SERVICES AND MAKE GOOD ANY DAMAGE CAUSED BY THE WORK IN THIS CONTRACT. 22. <u>CLEAN UP</u> – MAKE GOOD AND CLEAN ALL AREAS DISRUPTED BY THIS WORK. 		EA ELECT ELEV	DOWN EACH ELECTRICAL ELEVATION DEGREES FAHRENHEIT	
IS AND THE	MORE THAN 1.8 GALLONS PER MINUTES/20[RIM SPACE (INCHES) AT 60 PSI]. <u>5.303.4.4 METERING FAUCETS.</u> METERING FAUCETS SHALL NOT DELIVER MORE THAN 0.20 GALLONS	 22. <u>CLEAN OF</u> - MARE GOOD AND CLEAN ALL AREAS DISKOFTED BY THIS WORK. 23. <u>ARRANGEMENT AND ALIGNM,ENT OF PIPING:</u> A. PIPING SHALL BE GROUPED (WHEREVER PRACTICAL) INSTALLED IN STRAIGHT PARALLEL LINES ALIGNED IN A UNIFORM DIRECT MANNER. CHANGES IN DIRECTION OF PIPING SHALL BE MADE WITH FITTINGS. 		F/A – F/B FFE FH FT	FROM ABOVE – TO BELOW FINISHED FLOOR ELEVATION FUME HOOD FEET	1111 6th Ave. #311 Diego, CA 92101 one: (619) 793-4468 fax: (510) 569-2362 srs@mrengcon.com ww.mrengcon.com
IL AL	PER CYCLE. <u>5.303.4.5 METERING FAUCETS FOR WASH FOUNTAINS.</u> METERING FAUCETS FOR WASH FOUNTAINS SHALL HAVE A MAXIMUM FLOW RATE OF NOT MORE THAN 0.20 GALLONS PER CYCLE/20 FRIM SPACE (INCLIES) AT 60 DS1	B. PIPE LINES SHALL BE GUIDED, SUPPORTED AND ANCHORED IN SUCH MANNER THAT PIPE LINES SHALL NOT SAG OR BUCKLE. 24. <u>JOINTS:</u>		GPM	FEET OF HEAD GALLONS PER FLUSH GALLONS PER MINUTE GAUGE (+18")	1111 6th Ave. San Diego, CA (phone: (619) 793. phone: (619) 509. engineer@menegoor www.intergoor
ED 0.5	[RIM SPACE (INCHES) AT 60 PSI]. NOTE: WHERE COMPLYING FAUCETS ARE UNAVAILABLE, AERATORS OR OTHER MEANS MAY BE USED TO ACHIEVE REDUCTION. 5.303.6 STANDARD FOR PLUMBING FIXTURES AND FITTINGS.	A. PIPING TO EQUIPMENT SHALL BE CONNECTED WITH UNION FOR DISMANTLING AND REMOVAL.B. PIPING SHALL BE REAMED AFTER CUTTING. JOINTS WHEN COMPLETE SHALL BE THOROUGHLY CLEANED OF ALL EXCESS PIPE JOINT MATERIALS.C. PROVIDE DIELECTRIC FITTINGS BETWEEN DISSIMILAR PIPING CONNECTIONS.		HD	HEAD HIGH LEVEL – LOW LEVEL IRON PIPE SIZE INVERT ELEVATION	
	PLUMBING FIXTURES AND FITTINGS SHALL BE INSTALLED IN ACCORDANCE WITH THE CALIFORNIA PLUMBING CODE, AND SHALL MEET THE APPLIANCE STANDARD REFERENCED IN TABLE 1701.1 OF THE CALIFORNIA PLUMBING CODE IN CHAPTER 6 OF THIS CODE.	 25. <u>HANGERS AND SUPPORTS:</u> A. PIPING EQUIPMENT, ETC., SHALL BE PROPERLY SUPPORTED WITH THE USE OF APPROVED TYPE CLEVIS AND/OR TRAPEZE HANGERS SPACED 5'-0" ON CENTERS FOR CAST IRON PIPING AND 8'0" ON CENTERS FOR WATER PIPING. 		MECH MIN	MAXIMUM MAKE AIR UNITS MECHANICAL MINIMUM	
VALVE AND	 28. <u>DISINFECTION</u> A. DISINFECT DOMESTIC WATER PIPING AS REQUIRED BY THE BUILDING CODE. 	 B. PIPING AND EQUIPMENT SHALL BE SUPPORTED FROM WALLS, JOISTS OR STRUCTURAL STEEL GIRDERS ONLY. 26. <u>PLUMBING FIXTURES:</u> A. PLUMBING CONTRACTOR SHALL BE DESPONSIBLE FOR THE PROTECTION OF ALL FIXTURES INCLUDED IN THE CONTRACT FROM DAMAGE CAUSED. 		PSI	MOUNTED NOT TO SCALE POLYVINYL CHLORIDE PIPE POUNDS PER SQUARE INCH PRESSURE AND TEMPERATURE RELIEF VALVE	PROFESSION SUSTE MALAS
FLOOR EVATIONS	B. DISINFECT ALL POTABLE WATER PIPING SYSTEMS AT THE COMPLETION OF THE PROJECT PRIOR TO BUILDING OCCUPANCY AS FOLLOWS:	 A. PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL FIXTURES INCLUDED IN THE CONTRACT FROM DAMAGE CAUSED BY ACIDS, BUILDING MATERIALS, TOOLS, EQUIPMENT, ETC. UPON COMPLETION OF THE CONTRACT, OR WHEN DIRECTED, PLUMBING CONTRACTOR SHALL CLEAN ALL FIXTURES TO THE SATISFACTION OF THE DESIGN AUTHORITY. B. WHERE FIXTURES ARE DAMAGED, SAID FIXTURES SHALL BE REPLACED BY THE PLUMBING CONTRACTOR IMMEDIATELY UPON NOTIFICATION. 		QTY SOV SQ FT	QUANTITY SHUT OFF VALVE SQUARE FEET TO ABOVE / TO BELOW	No. M26141 Ren. <u>6/30/25</u> Street CHANICA
IG AITED FIELD	 FLUSH THOROUGHLY WITH POTABLE WATER. FILL SYSTEM WITH WATER-CHLORINE SOLUTION CONTAINING 50 PARTS PER MILLION OF CHLORINE AND ALLOW TO STAND FOR 24 HOURS. 	 C. ALL EQUIPMENT FURNISHED BY OWNERS THAT REQUIRE PLUMBING CONNECTION SHALL BE INSTALLED BY THE PLUMBING CONTRACTOR. PROVIDE SHUT-OFF VALVE ON WATER SUPPLY WERE REQUIRED BY CODE. D. EQUIPMENT SHALL BE INSTALLED IN STRICT ACCORDANCE WITH MANUFACTURER'S INSTRUCTION. 			TYPICAL VITRIFIED CLAY PIPE VENT THRU ROOF EQUIPMENT TYPE	TITLE:
Conditions IPENSATION RE TO FIONS IEDIATELY	 3 FILL SYSTEM WITH WATER-CHLORINE SOLUTION CONTAINING 200 PARTS PER MILLION OF CHLORINE AND ALOW TO STAND FOR 3 HOURS. 4. FLUSH SYSTEM WITH POTABLE WATER TO REMOVE ALL 	 E. FIXTURES SHALL BE SECURED WITH MOUNTING BOLTS FROM CARRIERS OR HANGERS. F. FIXTURES SHALL BE INSTALLED LEVEL, PLUMB. G. FITTINGS SHALL BE NEATLY INSTALLED, MOUNTED TO FIXTURES PRIOR TO INSTALLATION OF FIXTURES. PROVIDE NON-HARDENING PUTTY 		SC	OPE OF WORK	PLUMBIN GENERAL NO 2022 CAL GF
EXPOSED SYNTHETIC	CHLORINE. PERFORM ANY ADDITIONAL TEST OR TREATMENT AS REQUIRED BY THE LOCAL AUTHORITY.	BETWEEN FITTINGS AND FIXTURE SURFACES. H. FITTINGS SHALL BE SECURED WITHOUT MARRING OR DAMAGING CHROME PLATING. 27. INSULATION:	1. PROVIDE		AWING INDEX	SPECIFICAT LEGEND AND SYMB
		 A. DOMESTIC HOT WATER PIPING INSULATION SHALL BE COMPLIANCE TO CEC TABLE 120.3-A. B. THE FIRST 5 FEET OF HOT AND COLD WATER PIPES FROM THE STORAGE TANKS. C. ALL PIPING WITH A NOMINAL DIAMETER OF 3/4" OR LARGER. 	LEGE P0.2 PLUM	END AND SYME MBING SCHEDU	LES	JOB NO:B2306-
		D. ALL PIPING ASSOCIATED WITH A DOMESTIC HOT WATER RE-CIRCULATION SYSTEM REGARDLESS OF THE PIPE DIAMETER. E. PIPING FROM THE HEATING SOURCE TO STORAGE TANK OR BETWEEN TANKS.	P0.4 PLUM P2.1 PLUM	MBING T-24 FO MBING T-24 FO MBING LAYOUT MBING SCHEMA	ORMS	DRAWN: CHECKED: SCALE:
		 F. PIPING BURIED BELOW GRADE. G. INSULATION SHALL BE INSTALLED IN STRICT ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS. H. INSTALLATION OF INSULATIONS SHALL BE DONE ONLY AFTER PIPING ARE TESTED AND DETERMINED TO BE FREE FROM LEAKS. 		MBING DETAILS MBING DETAILS		DATE: 07.19

	FI	XTURE L		LCULAT	ION							F		FIXTURE	& EQUIP	MENT SCH			
TAG	DESCRIPTION	QTY	WATER SUPPLY FIXTURE	DRAINAGE FIXTURE		TOTAL		TAG	DESCRIPTION	MFR	MODEL	DIRECT	WASTE INDIRECT	TRAP	VENT	WA CW	TER HW	-	REMARKS
7			UNIT	UNIT	COLD WATER	HOT WATER	SEWER	1	HOT FOOD STATION	VOLLRATH	T39710-2	_	YES	_	-	-	-	REFER T	O OWNER'S EQUIPMENT LIST.
7	ICE MACHINE HAND SINK	1	2.0	INDIRECT 2.0	1.0 2.0	- 1.50	2.0	7		AVANTCO	KMC-H-322-A		YES	-	_	1/2"	-		O OWNER'S EQUIPMENT LIST.
11	PREP SINK	1	3.0	INDIRECT	3.0	2.25	-	10	HAND SINK PREP. SINK	REGENCY REGENCY	600HS12SP 600S1181818XLFT	2"	YES	2"	1-1/2"	3/4"	3/4"		O OWNER'S EQUIPMENT LIST.
12	3-COMP. SINK	1	6.0	INDIRECT	6.0	4.50	_	11	3–COMP. SINK	REGENCY	600S3162018G		YES	_	_	3/4"	3/4"	+	TO OWNER'S EQUIPMENT LIST.
13 FD	MOP SINK FLOOR DRAIN	1	3.0	3.0 6.0	3.0	2.25	3.0 6.0	13	MOP SINK	FLORESTONE	MSR-2424	3"	-	3"	2"	3/4"	3/4"	REFER T	O OWNER'S EQUIPMENT LIST.
FS	FLOOR SINK	5		6.0	-	_	30.0	FD	FLOOR DRAIN	ZURN	Z415B	2"	-	2"	1-1/2"	_	-		DRAIN – 'ZURN' MODEL Z415B, NO-HUB, DURA-COATED CAST IRON BODY, NICKEL TOP TYPE 'B' STRAINER WITH TRAP PRIMER CONNECTION.
L.		TIXTURE UNIT:			15.0	10.5	41.0	FS	FLOOR SINK	ZURN	Z1900			۲"	2"	_	_	FLOOR S	SINK – "ZURN" MODEL: Z1900 SANI-FLOR RECEPTOR 12"X12"X6" DEEP CAST IRON
	ESTIM	ATED GPM:			11.0	8.0	-								_				UARE, LIGHT DUTY GRATE 'ELD40—TB, ELECTRIC STORAGE—TYPE WATER HEATER, 40 GALLON STORAGE CAPA
WATER SUP DRAINAGE	PLY FIXTURE UNITS BA IXTURE UNITS BASED	SED UPON APF	PENDIX A, TABL 7, TABLE 702	E A103.1, 20 2.1, 2022 CAI	022 CALIFORNIA LIFORNIA PLUME	A PLUMBING CC BING CODE.	DE.	19	(N)WATER HEATER	RHEEM	ELD40-TB	-	YES	-	_	1"	1"	AND 68	B GPH RECOVERY RATE AT 60°F RISE, ELECTRICAL CHARACTERISTIC: -PHASE/208V; SIMULTANEOUS WIRING
																	- (HOT WAT	TER CIRCULATOR PUMP - "TACO 113S" HW CIRCULATING IN-LINE CENTRIFUGAL P
		PIPE SIZ	ZE TABLE	Ξ				CP-1	HOT WATER CIRCULATOR PUMP	TACO	113S	_	-	_	_	_	3/4"		Y 2.0 GPM AT TDH-15 FEET, 1/8 HP, 115 V, 60HZ, 1Ø, INSTALL PER MANUFACTI TIONS, S/S MATERIAL FOR DOMESTIC WATER USE, TEMPERATURE CONTROL.
	COL	D WATER	1		HOT WATER			ET-1	EXPANSION TANK	PROFLO	PFXT5	_	-	_	_	_	_		ON TANK - "PROFLO" MODEL PFXT5, 2.0 GALLONS
E SIZE	GPM FLUSH TAN	VALVE	VELOCITY	GPM	FLUSH TANK FIXTURE			(E)GT	HYDROMECHANICAL GREASE INTERCEPTOR	GB-250	GB-250	4"	-	_	4"	_	-	EXISTING	G HYDROMECHANICAL GREASE INTERCEPTOR; FLOWRATE: 100 GPM; GREASE CAPAC S
	UNIT	FIXTURE UNIT	(FT/S)		UNIT	(FT/S)		TP	TRAP PRIMER	MIFAB	M-500	_	-	_	_	1/2"	-		RE DROP ACTIVATED, BRASS CONSTRUCTION. PROVIDE WITH MULTIPLE DISTRIBUTI LICABLE), PROVIDE WITH APPROVED ACCESS PANEL.
/2"	2.22 1.4	_	3.06	2.22	1.4	3.06		_	BALANCING VALVE	WATTS	LFCSM-61-S			_		_	3/4"	BALANCI	NG VALVE – BALL-TYPE DESIGN, EXTENDED THROTTLING RANGE, AND LARGE PL
5/4"	5.736.711.4515.4	_	3.80	5.73 11.45	6.7	3.80 4.45				ZURN									OR ACCURATE FLOW MEASUREMENT, EVEN IN VERY FLOW RANGES. STAINLESS STEEL WALL ACCESS COVER COMPLETE WITH SECURING SCREW AND BI
·1/4"	11.45 13.4 19.76 29.5		5.04	19.59	29.2	5.00		WCO	WALL CLEAN OUT	ZURN	ZS1468		ERISER	-	_	-	-		HEX HEAD PLUG. ABLE FLOOR CLEANOUT, DURA-COATED CAST IRON BODY WITH GAS AND WATERTI
-1/2"	31.01 56.0	14.0	5.59	27.72	48.2	5.00		FCO	FLOOR CLEAN OUT	ZURN	Z1400	SEE	LAYOUT	-	_	_	-	TAPERED	THREAD PLUG AND ROUNDSCORIATED CAST IRON BODT WITH GAS AND WATERIN THREAD PLUG AND ROUNDSCORIATED CAST IRON HEAVY-DUTY SECURED TOP ABLE TO FINISHED FLOOR.
2"	63.60 193.0	86.8	6.59	48.23	119.9	5.00		NOTES:						<u> </u>	· · · · -				
1/2"	111.55 438.5 160.85 747.1	305.6	7.50	74.37	246.7	5.00			OR MAY SUBSTITUTE APPROVED EQU OR TO SUBMIT CUT-SHEETS OF ALL					VAL. PROVIDED /	ALL THE REQU	IREMENTS OF THE	APPLICABLE CO	DE ARE MI	ET.
<u> </u>	169.85 747.1	699.0	8.00	106.16	411.8	5.00													
RACTOR T	AVAILABLE IN THE BUIL D VERIFY AT SITE			BE AT LEAS	T 4.5PSI/100FT	Г.		GAS L	OAD SUMMARY			EQUIPMEI	NT SCHED	ULE					
COLD WATE	R NOT TO EXCEED 8 F NOT TO EXCEED 5 FE	EET PER SECO	ND. D.				TAG	QTY	DESCRIPTION GAS REQUIREMENT (SIZES	MARK QTY	DESCRIPTION	N		ELECTRICAL		WATER	WASTE INPUT REMARKS
				1			6	1	PER UNIT TOT 6 GAS 276.0 276		PE_SIZE CFH 1/2" 50						-		
I)STO	RAGE TYPE V	VATER H	EATER				0	I	BURNER 60		1/2" 50 3/4" 104					AMPS HERTZ VI	LTS PHASE CO	DLD HOT	T SIZE BTUS
	CALCULA	TION					24	2	FRYER 90.0 180	.0	1" 195			T FOOD STATION					
AG D		GPH	TOTAL GPH	-			TOTAL G	AS DEMAND (CFH	1): 456		-1/4" 400		BRAND: VOL MODEL: T39	LRATH		16 60 1	120 1		60W 24D 49H
		PER FIXTURE	PER FIXTURE	_					EMOTE OUTLET (FT) : 57.	<u> </u>	-1/2" 600	2		ERATED PREP TAE /ERAGE—AIR	LE				
10	AND SINK 1	5.0	5.0					FACTOR : EVELOPED LENGT	1.5 H (FT) : 86		2" 1160 -1/2" 1840		MODEL: SPE	/ERAGE—AIR E60HC—16		9.6 60 1	15 1		60W 29.25 D 41.1H
	PREP SINK 1	5.0	5.0					INT LENGTH (FT)			3" 3260	3	(N) FREEZE BRAND: AVA	NTCO		2.62 60 1	15 1		29W 32.25D 82.5H
12	3-COMP. SINK 1	45.0	45.0				INLET P	ESSURE (in. W.C): 7.0	D	4 " 6640		MODEL: SS- (N) REFRIGE						
_	MOP SINK 1	20.0	20.0							 SIZ	5" 12000 ZING BASED ON 2022	4	BRAND: AVA	NTCO -2R-HC 54"		6.08 60 1	115 1		NSF APPROVE
NGLE-USE	JTENSIL) POSSIBLE MAX (GPH X 80%):	XIMUM DEMAND	60.0								PC TABLE 1215.2(1)	5	(N) RICE C	OOKER					
	EMPERATURE RISE ("F)):	60.0					HYDRO	MECHANICAL GREAS	F			BRÁND: AVA MODEL: 177	NTCO 7RW90		1	120		NSF APPROVE
MINIMU	M WATER HEATER EFFI	ICIENCY:	0.98	-					ERCEPTOR SIZING			6	BRAND: CO	NER 60" NATURAL DKING PERFORMAN	GAS ICE GROUP				276,000
	MINIMUM INPUT (kW):		9.0					FIXTURE		ALLON)	_		MODEL: S60 (N) ICE MA						
									G107 – FOOD/RETAIL 5		_		BRAND: AVA	NTCO C-H-322-A		12 60 1	115	x	
I /	ABLE 120.3-A			NIHICK	NESS			NK (9x9x4x1)/(2			_	8	(N) GLASS	DOOR MERCHAND	SER 29.5"	7 00 1	15		
TEMPERATU				IINAL PIPE DIAI	METER (IN INCHE	ES)		NK (18x18x14x1), SINK (16x20x12)			_		BRAND: BEV MODEL: MT2	23–1B		7 60 1	115		
RANGE (' F)	BTU-INCH PER HOUR SQUARE FOOT PER			<1 <1	TO <1.5 <	<1.5 TO <4		< (24x24x10x1)/			_	9	BRAND: AVA	RTOP HEATED DI NTCO	SPLAY CASE	13.6 60 1	120		
					TION THICKNESS RED (IN INCHES)		FD	× //	2.0		_		MODEL: HDO	C—36 IOUNTED HAND SI					9"X9"X4" COMPARTMENT
					· · · · ·			D STATION	2.0	00	_		BRAND: REC MODEL: 600	SENCY				x x	NSF APPROVE
MS (RECIRC	ULATING SECTIONS, ALL F	PIPING IN ELECTR	RIC TRACE TAPE					FOOD/RETAIL 5 TENANT SPACE	(SUB-TOTAL LOAD)	88			(N) PRFP S	SINK					18"X18"X14" COMPARTMENT
	E STORAGE TANK FOR N		, 										BRAND: REC MODEL: 600	GENCY S1181818XLFT					INDIRECT DISCHARGE TO FLOOR SINK NSF APPROVE
OVE 350	0.32-0.34	25	50 4	ł.5	5.0	5.0			(NOT IN SCOPE) 73.	88	_	(12)	(N) THREE BRAND: REC	COMPARTMENT SI	NK			x x	16"X20"X12" COMPARTMENT INDIRECT DISCHARGE TO FLOOR SINK
51-350	0.29-0.32	20	00 3	3.0	4.0	4.5		IG LOAD FOR FU NOT IN SCOPE)	TURE TENANT 25.	00				GENCY 0S3162018G					NSF APPROVE
01-250	0.27-0.30	15	60 2	2.5	2.5	2.5		TOTAL	<u>174</u>	<u>76</u>	_		(N) MOP SI BRAND: FLC MODEL: MSF	RESTONE				x x	24"X24"X10" COMPARTMENT
41-200	0.25-0.29	12	.5 1	.5	1.5	2.0			GREASE INTERCEPTOR SIZE		_		(N) FLOOR	SINK					NSF APPROVE
)5–140	0.22-0.28	10	00 1	.0	1.5	1.5		1 – MINUTE 2 – MINUTE			_		BRAND: ZUF MODEL: Z19	RN 900					NSF APPROVE
PIPE INSU	ATION THICKNESS RANGE	(105 – 200°F	FLUID TEMPERATI	JRE)					SE 100 GPM FOR 2 MINUTE PERIOD			(15)	(N) SOAP D BRAND: LAV)ISPENSER					NSF APPROVE
													MODEL: 712	2LSD40V					
			IBING PI	PE MAT	ERIAL SC							(16)	(N) TOWEL BRAND: LAV	ΈX					NSF APPROVE
SERVICE									SLOPE				MODEL: 712 (N) SPLASH	GUARD					
WATER		DE ASTM B88			OPPER WITH WE			000050	/32" PER 1'				MATERIAL: S HEIGHT: 12	TAINLESS STEEL					NSF APPROVE
	BELOW GRA	BRAZED J	OINT FITTINGS.		-				/32" PER 1'			(18)	(N) COUNTE	IR					2 DRY STORAGE UNDERSHELF 24X60 2 TIER
ER AND	VENT	DE ASTM A88							1/4" PER 1'				ĊÚSTOM MA MODEL: QUA	ARTZ					NSF APPROVE
		DE ABS SCHE	•			•			1/4" PER 1' /4" PER 15'			(19)	(N) WATER BRAND: RHE	EEM				x	SEE SPEC SHEET ON THIS SHEET
ATURAL		DE SCHEDULE	40 GALVANIZI	ED STEEL "BL	ACK" PIPE W/	FACTORY INS			/4" PER 15'				MODEL: ELD	940TB					NSF APPROVE PROVIDED WITH AUTOMATIC DOOR PLUNGER SWITCH
		DIRECT BU	JRIAL. ALL FIT	TINGS SHALL	BE AS PER CP	PC.			/ 1/8" PER 1'			20	(N) AIR CU BRAND: CUF MODEL: AP-	RTAIN RTRON -2-36-1-SS		1/3 1	120 1		PROVIDED WITH AUTOMATIC DOOR PLUNGER SWITCH
	ABUVE GRA		DIFE L HAI	ע אאש עגAWN C	OFFER WITH WH	NUUGHI COPPE	V FITHINGS.						(N) DRAIN						
														BOARD : 12X24X36					NSF APPROVE
												(22)	(N) EMPLOY	ÉE LOCKERS OBAL INDUSTIRAL	4 0000				
													MODEL: T9F	493455GY					NSF APPROVE
												23	(N) WIRE R BRAND: REC	ACK (14X36) SENCY					2 DRY STORAGE UNDERSHELF 18X24 6 TIER TOTAL DRY
															1				STORAGE:
												(24)	(N) DEEP F)EB1848K85					NSF APPROVE STORAGE: 48 LF 15.5"W X 30.25"D X 47 1/8"H

FD
HOT FOOD STATION
G107 – FOOD/RETAIL 5 (FOR OUR TENANT SPACE)
G108 – FOOD/RETAIL 6

REMAINING LOAD FOR FUTU
SPACE (NOT IN SCOPE)
TOTAL
GI
1 – MINUTE P
2 – MINUTE P

		PLUMBING PIPE MATERIAL SCHEDULE	
SERVICE	LOCATION	PIPE MATERIAL	
	ABOVE GRADE	ASTM B88 TYPE "L" HARD DRAWN COPPER WITH WROUGHT COPPER FITTINGS.	1/3
WATER	BELOW GRADE	ASTM B88 TYPE "K" HARD DRAWN COPPER, FACTORY INSULATED, WITH WROUGHT COPPER BRAZED JOINT FITTINGS.	1/3
SEWER AND VENT	ABOVE GRADE	ASTM A888 SERVICE WEIGHT HUBLESS CAST IRON, ALL FITTINGS SHALL BE AS PER CPC.	1/4
SEWER AND VENT	BELOW GRADE	ABS SCHEDULE 40 (CONFORM TO ASTMD 2321-2000), ALL FITTINGS SHALL BE AS PER CPC.	1/4
	ABOVE GRADE	SCHEDULE 40 GALVANIZED STEEL "BLACK" PIPE. ALL FITTINGS SHALL BE AS PER CPC.	1/4
NATURAL GAS	BELOW GRADE	SCHEDULE 40 GALVANIZED STEEL "BLACK" PIPE W/ FACTORY INSTALLED COATING LISTED FOR DIRECT BURIAL. ALL FITTINGS SHALL BE AS PER CPC.	1/4
CONDENSATE	ABOVE GRADE	ASTM B88 TYPE "L" HARD DRAWN COPPER WITH WROUGHT COPPER FITTINGS.	1/8

	UPTION DATE IMENTS 07-19-23
SABOR PIRI PIRI TENANT IMPROVEMENT	800 B AVENUE SUITE 804 NATIONAL CITY CA 91950
1111 6th Ave. #311 San Diego, CA 92101 phone: (619) 793-4468 fax: (510) 509-2362	ENGINEERING CONSULTANTS INC.
Ren.	ESSION MAL 700 M261410 6/30/25
	//BING DULES
DRAWN: CHECKED SCALE: DATE: C	2306-AA123 JP 0: CZ NONE 07.19.2023

STATE OF CALIFORNIA Domestic Water Heating System CERTIFICATE OF COMPLIANCE

This document is used to demonstrate compliance for nonresidential occupancies with requirements in 110.1, 110.3, 120.3, and 140.5, and with requirements in 141.0 for additions and alterations, for domestic water heating scopes using the prescriptive path. For high-rise residential and hotel/motel occupancies compliance is demonstrated with requirements in 110.1, 110.3, 160.4 and 170.2(d), and with requirements 180.1 for additions and 180.2 for alterations. Project Name: SABOR PIRI PIRI TENANT IMPROVEMENT Report Page: Project Address: 800 B AVENUE SUITE 804 NATIONAL CITY CA 91950

A. GENERAL INFORMATION

NATIONAL CITY 02 01 Project Location (city) 03 Occupancy Types Within Project (select all that apply):

 Restaurant B. PROJECT SCOPE This table includes domestic water heating systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive paths outlined in 140./ 170.2(d) and 141.0(a)/180.1, or 141.0(b)2N / 180.2 for additions or alterations. Solar water heating systems are documented on the NRCC-SAB compliance document. Combined hydronic water heating systems are documented on the NRCC-MCH compliance document. 02 03 ystem Type^{1,2} System Components System Alteration (equipment, distribution or controls) ¹FOOTNOTES: Point of use water heaters, or other non-central systems used to serve nonresidential spaces, are considered individual systems. ² Dwelling units refers to hotel/motel guest rooms and units in a multifamily residential occupancy. ³ DHW systems serving 2 or more dwelling units are considered "Central Systems" for multifamily occupancies C. COMPLIANCE RESULTS ating requirements. If this table says "DOES NOT COMPLY" or "COMPLIES with

	01	
	My project consists of (check all that apply):	Syst
\boxtimes	New system (DHW system being installed for the first time)	Central System (serv

Table C will indicate if the project data input into the compliance document is compliant with water hear Exceptional Conditions" refer to Table D. or the table indicated as not compliant for guidance.				
01	02	03		
Domestic Hot Water Equipment	Distribution Systems	Contr		
Table F	Table G	Table		
Yes	Yes	Yes		

rols **Compliance Results** le H COMPLIES D. EXCEPTIONAL CONDITIONS This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form. Generated Date/Time: Documentation Software: Energy Code Ace

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance

Report Version: 2022.0.000 Schema Version: rev 20220101

STATE OF CALIFORNIA

Domestic Water Heating System

Project Name: SABOR PIRI PIRI TENANT IMPROVEMENT	Report Page:
800 B AVENUE SUITE 804 NATIONAL CITY CA 91950	Date Prepared:

E. ADDITIONAL REMARKS

This table includes remarks made by the permit applicant to the Authority Having Jurisdiction. F. DOMESTIC HOT WATER EQUIPMENT This table is used to demonstrate compliance with mandatory equipment requirements in 110.1 and 110.3. Compliance with prescriptive requirements in 140.5(c) / 170.2(d) must also be demonstrated and with 141.0 / 180.1 / 180.2 for addition and alteration scopes. Equipment Schedule: Water Heating Efficiency and Standby Loss

	03		04		0	5		06	
System Name	19		to 140.5(c)/ 0.2(d)3	Exceptions Do Not Apply		Gas Service Water Heating System >= 1MMBtu/h ¹	Capacity-weighted Average Efficiency %		
07	08	09		10	11	12	13	14	15
Name or Item Tag	E Faunment Ivne	Volume (gal)	Rated Input Capacity (Btu/h)	Max GPM/ First Hour Rating (FHR)	Rated Efficiency	Minimum Efficiency Required	Efficiency Unit	Designed Standby Loss	Maximum Standby Loss
19	Commercial Electric Storage Water Heater	40	34,121.42					0.97	0.98
¹ EQOTNOTE: In sustame >= 1MMPtu/h with multiple units, and water besters with input canacity > 100,000 Btu/h may most 00% Et requirements via an input canacity weighted									

¹FOOTNOTE: In systems >= 1MMBtu/h with multiple units, gas water heaters with input capacity > 100,000 Btu/h may meet 90% Et requirements via an input capacity-weighted average.

Water Heating Equipment All Occupancies

	Yes	No	Not Applicable	
18			\boxtimes	Unfired storage tank insulation shall have Inter
19			\boxtimes	New state buildings 60% of energy for service
20			\boxtimes	Isolation valves for instantaneous water heate
21				School buildings < 25,000 ft ² and < 4 stories m systems serving an individual bathroom space

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(Page 1 of 7) Date Prepared: 2023-06-26T17:56:42-04:00 Climate Zone 7 rving nonresidential spaces) 🛛 🛛 Equipment 🖾 Distribution 🛛 🖾 Controls Equipment Distribution Controls 04

CALIFORNIA ENERGY COMMISSION

NRCC-PLB-E

Compliance ID: 115932-0623-0003 Report Generated: 2023-06-26 14:56:43

CALIFORNIA ENERGY COMMISSION NRCC-PLB-E (Page 2 of 7) 2023-06-26T17:56:42-04:00

Requirement

ternal + External >=R-16 OR External >=R-3.5. Label required per 110.3(c)3 e water heating from site solar energy or recovered energy per 110.3(c)5 ter with input rating >6.8 kBTUH or 2 kW has been specified per 110.3(c)6 must install a heat pump water heating system per 140.5(a)1. Water heating ce may be an instantaneous electric water heater.

Documentation Software: Energy Code Ace

Compliance ID: 115932-0623-0003 Report Generated: 2023-06-26 14:56:43 Domestic Water Heating System

STATE OF CALIFORNIA

CERTIFICATE OF COMPLIANCE Project Name: SABOR PIRI PIRI TENANT IMPROVEMENT Report Page: 800 B AVENUE SUITE 804 NATIONAL CITY CA 91950

Date Prepared:

G. DOMESTIC HOT WATER DISTRIBUTION SYSTEM

			-	nresidential occupancies with distribution requirements in 120.3 and 140.5. For m 3(c), 160.4, 170.2(d).
Recirculati	on Loops in Co	entral System	s Serving Dwe	elling Units or Nonresidential Spaces
	Yes	No	Not Applicable	Requirement
01		\bigcirc	\bigcirc	Air release valve or vertical pump installation per 110.3(c)4A
02		\bigcirc	\bigcirc	Check valve or similar located between recirculation pump and water heating eq
03		\bigcirc	\bigcirc	Hose bibb installed between pump and equipment and isolation valve between
04		\bigcirc	\bigcirc	Isolation valves on both sides of the pump per 110.3(c)4D
05	\bigcirc	\bigcirc	•	Cold water and recirculation loop piping shall not be connected to the hot water
06		\bigcirc	\bigcirc	Check valve installed on cold water supply between hot water system and next c
07	\bigcirc	\bigcirc	•	DWELLING UNITS ONLY: For central systems serving multiple dwelling units, desi dwelling units per 170.2(d) unless building has <=8 dwelling units.
08	0	\bigcirc	•	DWELLING UNITS ONLY: For heat pump water heating systems, the hot water ret recirculation loop tank and shall not directly connect to the primary heat pump tanks per 170.2(d)2A.
09	0	0	•	DWELLING UNITS ONLY: For heat pump water heating systems, the fuel source for auxiliary heating is needed. The recirculation loop heater shall be capable of mu

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CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance

STATE OF CALIFORNIA

Domestic Water Heating System

ERTIFICATE OF COMPLIANCE			
Project Name: SABOR PIRI PIRI TENANT IMPROVEMENT	Report Page:		
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G. DOMESTIC HOT WATER DISTRIBUTION SYSTEM Mandatory Pine Insulation All Occupancies

Mandator	y Pipe Insulat	ion All O	ccupancies				
13		 For systems serving dwelling units, pipe insulation must meet the minimum insulation requirements in Table Piping that penetrates framing members shall not be required to have pipe insulation for the distance penetrates metal framing shall use grommets, plugs, wrapping or other insulating material to assure to Insulation shall abut securely against all framing members Piping installed in interior or exterior walls shall not be required to have pipe insulation if all of the regulation Installation (QII) as specified in the Reference Residential Appendix RA3.5. Piping surrounded with a minimum of 1 inch of wall insulation, 2 inches of crawlspace insulation, or 4 have pipe insulation. 					
14		 For systems serving nonresidential spaces, pipe insulation for the following applications is specified to com Recirculating system piping, including supply and return piping of the water heater The first 8 ft of hot and cold outlet piping, including between storage tank and heat trap, for a nonr Pipes that are externally heated 					
15		be insta		ted from damage, including that o suitable for outdoor service per 1 leeve.	-		
	TABLE 120.3-A / 160.4-A PIPE INSULATION THICKNESS						
	Conductivity					Nominal Pip	
Fluid Temperature Range (°		luid Temperature Range (°F) Range (Btu-in per hour per ft ²		Insulation Mean Rating Temp (°F)	< 1	1 to < 1.5	1.5
			per °F)				Minimum Ins
105-140			0.22 - 0.28	100	1.0 in or R-7.7	1.5 in or R-12.5	1.5 ir

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CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance

	ON DATE ENTS 07-19-23
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AB	B A IONA
S	800 NAT
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#311 2101 1468 2362 com	U U
1111 6th Ave. #311 San Diego, CA 92101 phone: (619) 793-4468 fax: (610) 509-2362 engineers@mrengcon.com www.mrengcon.com	RIN s IN
111 San Die, phone: (fax: (fax: 0)	EEI
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TITLE:	
PLUM	BING
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	06-AA123
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DRAWN: CHECKED: SCALE: DATE: 07.	JP CZ NONE .19.2023
DRAWN: CHECKED: SCALE:	JP CZ NONE .19.2023

for multifamily and hot	ei/motei occupancies,				
	nt backflow per 110.3(c)4B				
een hose bibb and equ	uipment per 110.3(c)4C				
water storage tank drai	n port per 110 3(c)//F				
	water supply per 110.3(c)4F				
design includes a recir	culation system serving separate				
or roturn from the reci	roulation loop shall connect to a				
	culation loop shall connect to a or the primary thermal storage				
	n loop tank shall be electricity if ting operation per 170.2(d)2B.				
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Table 160.4-A (see blow tance of the framing pe					
	made with the metal framing.				
ha raquiraments ara m	et for compliance with Quality				
ne requirements are m	et for compliance with Quality				
n, or 4 inches of attic insulation, shall not be required to					
comply with Table 120	3-A (see below) per 120.3:				
	, (See Selow) per 120.3.				
onrecirculating storage	system				
nance and wind Insula	ation exposed to weather shall				
	lled in a water proof and				
al Pipe Diameter (in)	1 E to < 4 Multifermily 0				
1.5 to < 4	1.5 to < 4 Multifamily & Hotel/Motel				
n Insulation Required					
1.5 in or R-11	2.0 in or R-16				

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STATE OF CALIFORNIA Domestic Water Heating System CERTIFICATE OF COMPLIANCE Project Name: SABOR PIRI PIRI TENANT IMPROVEMENT 800 B AVENUE SUITE 804 NATIONAL CITY CA 91950

H. DOMESTIC HOT WATER CONTROLS This table is used to demonstrate compliance with control requirements in 110.3 for all occupancies. For multifamily residential and hotel/motel occupancies, compliance is also demonstrated with requirements in 160.4(e) / 170.2(d). Not Yes No Requirement Applicable Construction documents require manufacturer certification that service water-heating systems are equipped with automatic \boxtimes 01 emperature controls capable of adjusting temperature settings per 110.3(a). Systems with capacity > 167,000 BTUH equipped with outlet temperature controls per 110.3(c)1 unless covered by California \boxtimes 02 Plumbing Code 613.0. Controls for circulating pumps or electrical heat trace systems are capable of automatically turning off the system per \boxtimes 03 110.3(c)2 unless systems serves healthcare facility. For recirculation systems serving multiple dwelling units, design includes automatic pump controls per 170.2(d) or 180.1(b)3 for \boxtimes 04 additions. For recirculation systems serving individual dwelling units, design includes manual on/off controls as specified in Reference \boxtimes 05 Appendix RA4.4.9 per 170.2(d). Combustion air positive shut-off shall be provided per 160.4(3).on all newly installed commercial boilers as follows: • Boilers with input capacity >= 2.5 MMBtu/h, in which the boiler is designed to operate with a nonpositive vent static \boxtimes 06 pressure • Boilers where one stack serves two or more boilers with a total combined input capacity per stack of 2.5 MMBtu/h. Boiler combustion air fans with motor >= 10 hp shall meet one of the following The fan motor shall be driven by a variable speed drive OR 07 \boxtimes • The fan motor shall include controls that limit the fan motor demand to <=30% of the total design wattage at 50% of the design air volume. Newly installed boilers with an input capacity {d:gte/] 5MMBtu/h and a steady state full-load combustion efficiency < 90% shall maintain excess (stack-gas) oxygen concentrations <= 5% by volume on a dry basis over firing rates of 20-100%. Combustion air 08 \boxtimes volume shall be controlled with respect to firing rate or flue gas oxygen concentration. Use of a common gas and combustion air control linkage or jack shaft is prohibited.

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance

STATE OF CALIFORNIA

Domestic Water Heating System

CERTIFICATE OF COMPLIANCE					
Project Name: SABOR PIRI PIRI TENANT IMPROVEMENT	Report Page:				
800 B AVENUE SUITE 804 NATIONAL CITY CA 91950	Date Prepared:				

I. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION Selections have been made based on information provided in this document. If any selection have been changed by permit applicant, an explanation should be included in Table E.

Additional Remarks. These documents must be provided to the building inspector during construction and can be found online Form/Title

NRCI-PLB-E - Must be submitted for all buildings

J. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE There are no forms required for this project.

K. DECLARATION OF REQUIRED CERTIFICATES OF VERIFICATION

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance

There are no forms required for this project.

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Schema Version: rev 20220101

CALIFORNIA ENERGY COMMISSION NRCC-PLB-E (Page 5 of 7)

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CALIFORNIA ENERGY COMMISSION

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CERTIFICATE OF COMPLIANCE Report Page: Project Name: SABOR PIRI PIRI TENANT IMPROVEMENT Project Address: 800 B AVENUE SUITE 804 NATIONAL CITY CA 91950 Date Prepared:

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

I certify that this Certificate of Compliance documentation is accurate and complete.			
Documentation RAMIL BATIA		Documentation Author Signature:	
Company: www.mreng	con.com	Signature Date:	
Address:	39210 STATE ST. STE 106	CEA/ HERS Certification Identification (if application)	
City/State/Zip:	FREMONT. CA 94538	Phone: 510-449-4862	

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

1. The information provided on this Certificate of Compliance is true and correct.

2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer) 3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations. 4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations,

plans and specifications submitted to the enforcement agency for approval with this building permit application. 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 5. 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 gwner at occupancy.

Responsible Designer Name:	LEVI F. MALABUYO	Responsible Designer Signature:
Company:	MR ENGINEERING CONSULTANTS, INC.	Date Signed:
Address:	39210 STATE ST. STE 106	License:
City/State/Zip:	FREMONT, CA 94538	Phone:

Generated Date/Time:

Report Version: 2022.0.000

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance

Schema Version: rev 20220101

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	PIRI	UE SUI	ITY CA
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	SA	800 E	NATIO
	F		
	11111 6th Ave. #311 Diego, CA 92101 ne: (619) 793-4468 'ax: (510) 509-2362 'ax: (510) 509-2362 'ax: mengroon com	NG	INC.
	1111 6th Ave. #311 San Diego, CA 92101 phone: (619) 793-4468 fax: (510) 509-2362 engineers@menegoon.com	IEERI	FANTS
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CALIFORNIA ENERGY COMMISSION NRCC-PLB-E (Page 7 of 7) 2023-06-26T17:56:42-04:00

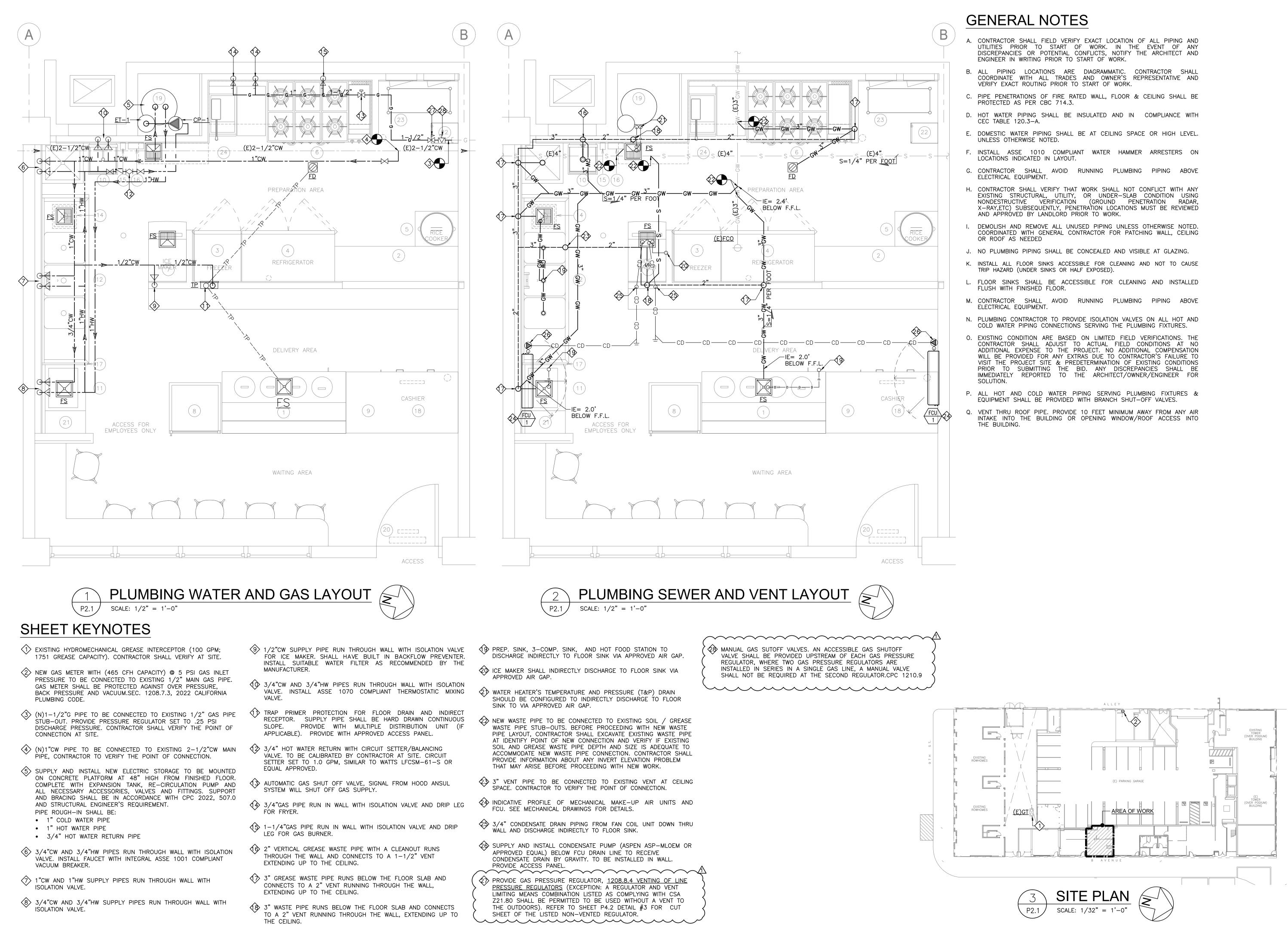
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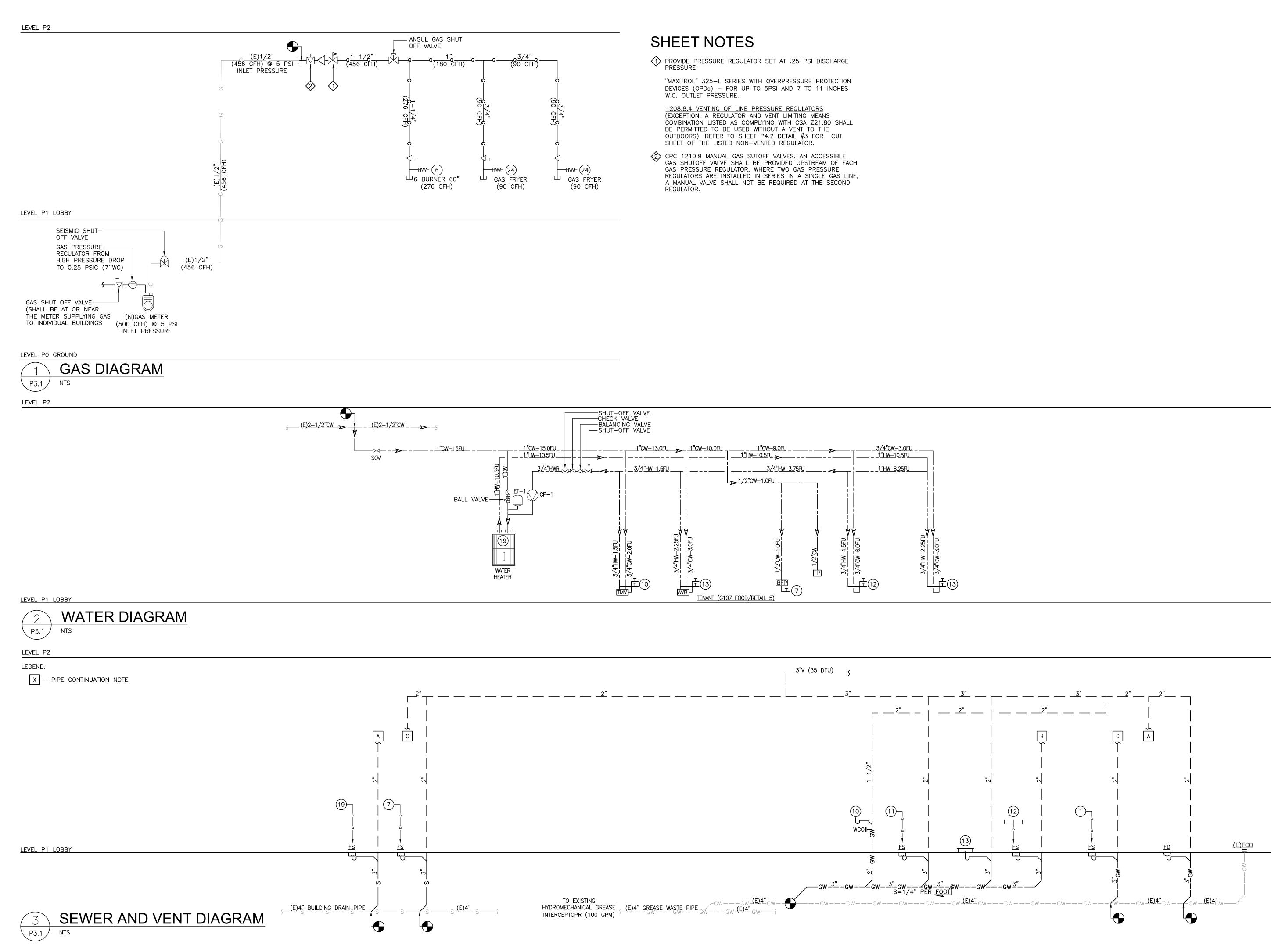
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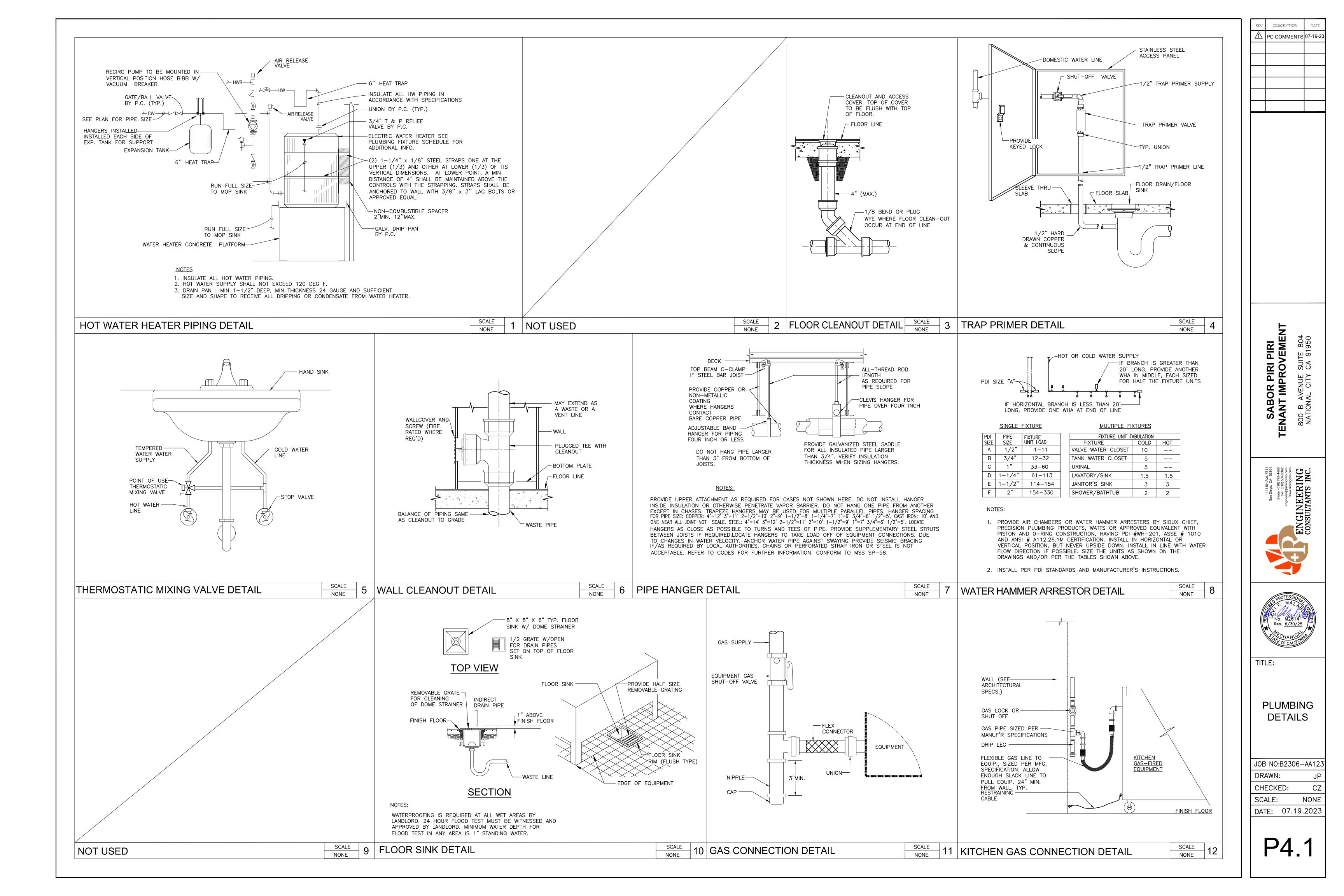
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THROUGH-PENETRATION FIRESTOP SYSTEM

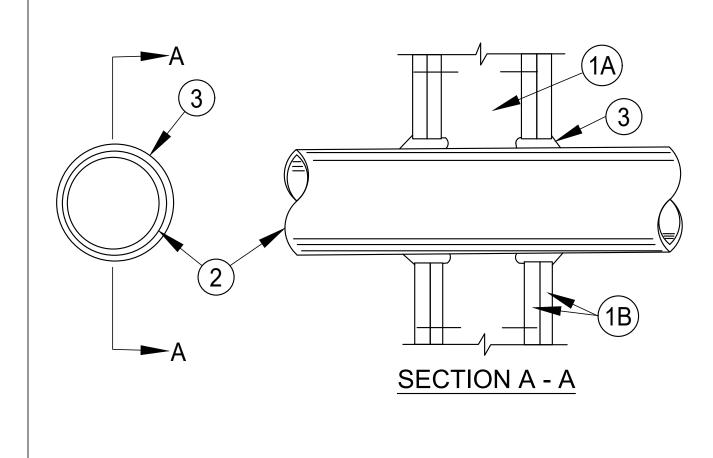
ASSEMBLY USAGE DISCLAIMER

XHEZ - THROUGH-PENETRATION FIRESTOP SYSTEMS

SEE GENERAL INFORMATION FOR THROUGH-PENETRATION FIRESTOP SYSTEMS SYSTEM NO. W-L-1001

JUNE 15, 2005

F RATINGS — 1, 2, 3 AND 4 HR (SEE ITEMS 2 AND 3) T RATINGS - 0, 1, 2, 3, AND 4 HR (SEE ITEM 3) L RATING AT AMBIENT - LESS THAN 1 CFM/SQ FT L RATING AT 400 F - LESS THAN 1 CFM/SQ FT



WALL ASSEMBLY - THE 1, 2, 3 OR 4 HR FIRE-RATED GYPSUM WALLBOARD/STUD WALL ASSEMBLY SHALL BE CONSTRUCTED OF THE MATERIALS AND IN THE MANNER DESCRIBED IN THE INDIVIDUAL U300 OR U400 SERIES WALL OR PARTITION DESIGNS IN THE UL FIRE RESISTANCE DIRECTORY AND SHALL INCLUDE THE FOLLOWING CONSTRUCTION FEATURES:

A. STUDS - WALL FRAMING MAY CONSIST OF EITHER WOOD STUDS (MAX 2 H FIRE RATED ASSEMBLIES) OR STEEL CHANNEL STUDS. WOOD STUDS TO CONSIST OF NOM 2 BY 4 IN. (51 BY 102 MM) LUMBER SPACED 16 IN. (406 MM)OC WITH NOM 2 BY 4 IN. (51 BY 102 MM) LUMBER END PLATES AND CROSS BRACES. STEEL STUDS TO BE MIN 3-5/8 IN. (92 MM) WIDE BY 1-3/8 IN. (35 MM) DEEP CHANNELS SPACED MAX 24 IN. (610 MM) OC. B. GYPSUM BOARD* - NOM 1/2 OR 5/8 IN. (13 OR 16 MM) THICK, 4 FT. (122 CM) WIDE WITH SQUARE OR TAPERED EDGES. THE GYPSUM WALLBOARD TYPE, THICKNESS, NUMBER OF LAYERS, FASTENER TYPE AND SHEET ORIENTATION SHALL

FIRE RESISTANCE DIRECTORY. MAX DIAM OF OPENING IS 26 IN. (660 MM). 2. THROUGH-PENETRANT - ONE METALLIC PIPE, CONDUIT OR TUBING INSTALLED EITHER CONCENTRICALLY OR ECCENTRICALLY WITHIN THE FIRESTOP SYSTEM. THE ANNULAR SPACE BETWEEN PIPE, CONDUIT OR TUBING AND PERIPHERY OF OPENING SHALL BE MIN OF 0 IN / (0 MM). (POINT CONTACT) TO MAX 2 IN. (51 MM) PIPE, CONDUIT OR TUBING TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF WALL ASSEMBLY THE FOLLOWING TYPES AND SIZES OF METALLIC PIPES, CONDUITS OR TUBING MAY BE

USED: A. STEEL PIPE - NOM 24 IN. (610 MM) DIAM (OR SMALLER) SCHEDULE 10 (OR HEAVIER) STEEL PIPE.

B. IRON PIPE - NOM 24 IN. (610 MM) DIAM (OR SMALLER) SERVICE WEIGHT (OR HEAVIER) CAST IRON SOIL PIPE, NOM 12 IN (305 MM) DIAM (OR SMALLER) OR CLASS 50 (OR HEAVIER) DUCTILE IRON PRESSURE PIPE. C. CONDUIT - NOM 6 IN. (152 MM) DIAM (OR SMALLER) STEEL CONDUIT OR NOM 4

IN (102 MM) DIAM (OR SMALLER) STEEL ELECTRICAL METALLIC TUBING D. COPPER TUBING - NOM 6 IN. (152 MM) DIAM (OR SMALLER) TYPE L (OR

HEAVIER) COPPER TUBING

E. COPPER PIPE - NOM 6 IN. (152 MM) DIAM (OR SMALLER) REGULAR (OR HEAVIER) COPPER PIPE. F. THROUGH PENETRATING PRODUCT* — FLEXIBLE METAL PIPING THE FOLLOWING TYPES OF STEEL FLEXIBLE METAL GAS PIPING MAY BE USED:

NOM 2 IN. (51 MM) DIAM (OR SMALLER) STEEL FLEXIBLE METAL GAS PIPING. PLASTIC COVERING ON PIPING MAY OR MAY NOT BE REMOVED ON BOTH SIDES OF FLOOR OR WALL ASSEMBLY. OMEGA FLEX INC NOM 1 IN. (25 MM) DIAM (OR SMALLER) STEEL FLEXIBLE METAL GAS PIPING. PLASTIC COVERING ON PIPING MAY OR MAY NOT BE REMOVED ON BOTH SIDES OF FLOOR OR WALL ASSEMBLY. GASTITE, DIV OF TITEFLEX NOM 1 IN. (25 MM) DIAM (OR SMALLER) STEEL FLEXIBLE METAL GAS PIPING. PLASTIC COVERING ON PIPING MAY OR MAY NOT BE REMOVED ON BOTH SIDES OF FLOOR OR WALL ASSEMBLY. WARD MFG L L C

3. FILL, VOID OR CAVITY MATERIAL* - CAULK OR SEALANT - MIN 5/8. 1-1/4,1-7/8 AND 2-1/2 IN. (16, 32, 48 AND 64 MM) THICKNESS OF CAULK FOR 1, 2, 3 AND 4 HR RATED ASSEMBLIES, RESPECTIVELY, APPLIED WITHIN ANNULUS, FLUSH WITH BOTH SURFACES OF WALL. MIN 1/4 IN. (6 MM) DIAM BEAD OF CAULK APPLIED TO GYPSUM BOARD/PENETRANT INTERFACE AT POINT CONTACT LOCATION ON BOTH SIDES OF WALL. THE HOURLY F RATING OF THE FIRESTOP SYSTEM IS DEPENDENT UPON THE HOURLY FIRE RATING OF THE WALL ASSEMBLY IN WHICH IT IS INSTALLED, AS SHOWN IN THE FOLL OWING TABLE. THE HOURLY T RATING OF THE FIRESTOP SYSTEM IS DEPENDENT UPON THE TYPE OR SIZE OF THE PIPE OR CONDUIT AND THE HOURLY FIRE RATING OF THE WALL ASSEMBLY IN WHICH IT IS INSTALLED, AS TABULATED BELOW:

FIRESTOP PENETRATIONS DETAIL

12 LINE PRESSURE REGULATOR OPTION **PIPING SYSTEMS UP TO 5 PSI** Maxitrol's 325-L series with overpressure protection devices As optional accessories, the regulators (OPDs) are CSA certified (ANSI Z21.80/CSA 6.22) for up to √Limiter®. The 12A09, 12A39, or 12A49 √L 5 psi inlet pressure, and 7 to 11 inches w.c. outlet pressure the need to run vent piping to an outside are (see page 18). diaphragm rupture, gas escapement is limited 325-3L with OPD 47 325-3L with OPD 48 standard requirements. The L models with OPDs are for use on piping systems up to 5 NOTE: Maxitrol line pressure regulators D psi such as CSST (corrugated stainless steel), semirigid copper tubing, or steel/black iron pipe. The regulators reduce pounds internal relief function. pressure to a level within the appliance or equipment's operating supply range. The line regulator is located upstream of appliances already fitted with a regulator. 325-5L with OPD 48 325-5L with OPD 600 At supply pressures in excess of 2 psi, the ANSI Z21.80/CSA 6.22 standard for line pressure regulators requires an overpressure protection device - OPD. The OPD must be integral or factory pre-assembled, approved and tested for use with the regulator, to limit the downstream pressure to 2 psi maximum, in the event of line regulator failure. 325-9L with OPD 210E 325-7AL with OPD 210D Figure 5: 325-7AL with vLimiter® 12A49 325-11L with OPD 210G Figure 4: 325-L (B) Models with OPDs: Pipe sizes from 3/8" to 3" NOTE: Imblue Technology® Regulators available for above models. © 2020 Maxitrol Company, All Rights Reserved.

BE AS SPECIFIED IN THE INDIVIDUAL U300 OR U400 SERIES DESIGN IN THE UL

Max Pipe or Conduit Diam In (mm)	F Rating Hr	T Rating Hr
1 (25)	1 or 2	0+, 1 or 2
1 (25)	3 or 4	3 or 4
4 (102)	1 or 2	0
6 (152)	3 or 4	0
12 (305)	1 or 2	0

+WHEN COPPER PIPE IS USED, T RATING IS 0 H. 3M COMPANY - CP 25WB+ OR FB-3000 WT.

1. MIN. FLOOR OR WALL: 4-1/2" THICK CONCRETE. MAX. DIA. OF OPENING IS 22-1/2" 1A. OPTIONAL STEEL SLEEVE. MAXIMUM 12" DIA.

- MAX. 20" STEEL PIPE, 6" COPPER TUBE, OR 4" CAST IRON PIPE. MAX. ANNULAR SPACE BETWEEN PIPE AND OPENING NOT TO EXCEED 2-1/2". MIN. SPACE IS 0".
- 3. PACKING MATERIAL, POLYETHYLENE BACKER ROD OR 1" THICK TIGHTLY PACKED CERAMIC (ALUMINA SILICA) FIBER BLANKET, MINERAL WOOL BATT OR FIBER GLASS INSULATION. OR FIBER GLASS INSULATION. PACKING MATERIAL TO BE RECESSED AS REQUIRED TO ACCOMODATE FOR THE THICKNESS OF THE CAULK FILL MATERIAL. AS AN ALTERNATE WHEN MAX. PIPE SIZE IS 10" AND MAX. ANNULAR SPACE IS 1", A MIN. 1" THICK TIGHTLY PACKED CERAMIC FIBER BLANKET OR MINERAL WOOL BATT MAY BE USED, AND SHOULD BE RECESSED 1/2" MIN. FROM BOTTOM SIDE OF FLOOR OR BOTH SIDES OF CONCRETE WALL.

4. FILL, VOID OR CAVITY MATERIAL -*CALK--CAULK FILL MATERIAL INSTALLED TO COMPLETELY FILL ANNULAR SPACE

ΤΟ ΤΗΕ	MIN. THICI	KNESS SHOWN IN THE	FOI
MAX. PIPE DIAMETER	MAXIMUM ANNULAR SPACE	PACKING MAT'L TYPE(a)	MIN. THIC
10"	1"	BR, CF, GF OR MW	1/
10"	1"	CF OR MW	1/
20"	2-1/2"	BR. CF. GF OR MW	1"

(a) BR=POLYETHYLENE BACKER ROD. CF=CERAMIC FIBER BLANKET.

GF=GLASS FIBER INSULATION. MW=MINERAL WOOL BATT.

(b) CAULK INSTALLED FLUSH WITH TOP SURFACE OF FLOOR OR BOTH SURFACES OF CONCRETE WALL. (c) CAULK INSTALLED FLUSH WITH BOTTOM SURFACE OF FLOOR OR ONE SURFACE OF CONCRETE WALL.

MINNESOTA MINING & MFG. CO.--TYPE CP 25N/S(ULISTED F-A-5016) * BEARING THE UL CLASSIFICATION MARKING. REFER TO SCHEDULE 9, THIS SHEET

1 NON-INSULATED PENETRATION (CONCRETE FLOOR)

	14			15	18
and OPDs offer a ↓Limiter® eliminate area. In the event of a ted to within the ANSI	✓Limiter® VENT LIMITING DEVICE MAXIMUM ALLOWABLE VENTING RATE A ✓Limiter® used with Maxitrol regulators DOES NOT release or relieve gas into the environment during normal operation.	✓Limiten® devices are design where limiting the amount of g failure is critical. ✓Limiten® outdoors if they are exposed to 5 and 13A25 ✓Protector® de applications to ensure proper v	as escaper devices the envirc evices are a ent protect	nent due to diaphragm should not be used onment. 13A15, 13A15- available for all outdoor tion.	5 PSI LINE PRESSURE REGULATORS To comply with the Standard for Line Pressure Regulate Z21.80/CSA 6.22, installations exceeding 2 psi nomina a tested and approved overpressure protection device factory pre-assembled)* for use with the regulator.
DO NOT contain an		✓Limiter [®] devices can only b they are certified. ✓Limiter directly into the vent conne intermediate pipe or fittings. W the regulator must be mounted	devices in ction of the definition of the def	must only be installed the regulator without a vent limiting device,	GASES Suitable for application in natural, manufactured, mixe liquefied petroleum gases, and LP gas-air mixture piping MAXIMUM INLET PRESSURE CSA certified
	12A39 Open/Normal Closed/Limiting	Requirements for VLimiter® Vent Limiting Device	Specific Gravity	Maximum allowable flow rate, cubic feet per hour (cm³/s)	EMERGENCY EXPOSURE Inlet side only65 psi (
	Position Position Figure 8: 12A39 Ball Check Cutaway	Vent limiter for use only with natural, manufactured, mixed gases, and LP gas-air mixtures.	0.64	2.5 (19.6)	OUTLET PRESSURE Certified spring7- MAXIMUM INDIVIDUAL LOAD/CAPACITY: NAT GAS
		Vent limiter for use with liquefied petroleum gases.	1.53	1.0 (7.9)	325-3(B)L47 (¾″, ½″) (with OPD 47)125,00 325-3(B)L48 (½″) (with OPD 48)200,00 325-5(B)L48 (½″) (with OPD 48)
Image: system of the system		NOTE: ↓Limiter® devices m requirement states "Ve having melting points o	ent limiters	s shall be of materials	325-5(B)L48 (¾") (with OPD 48)
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