

N.T.S

SITE PLAN

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TOTAL SHEETS: 25

### APPLICABLE CODES

### LATEST VERSION OF CITY OF YORBA-LINDA MUNICIPAL CODE & ORANGE COUNTY CODE & ORANGE COUNTY ENVIROMENTAL HEALTH DEPARTMENT CODE.

- 2022 CALIFORNIA BUILDING CODE TITLE 24, C.C.R.2018 INTERNATIONAL BUILDING CODE (IBC) /2019 BUILDING STANDARDS ADMINISTRATIVE CODE. TITLE 24, C.C.R.
- 2022 CALIFORNIA EXISTING BUILDING CODE (CEBC) / 2018 INTERNATIONAL EXISTING BUILDING CODE (IEBC)
- 2022 CALIFORNIA ELECTRICAL CODE (CEC) / 2019 NATIONAL ELECTRICAL CODE (NEC)
- 2022 CALIFORNIA MECHANICAL CODE (CMC) / 2018 UNIFORM MECHANICAL CODE (UMC • 2022 CALIFORNIA PLUMBING CODE (CPC)/2018 UNIFORM
- PLUMBING CODE (UPC) • 2022 CALIFORNIA GREEN BUILDINGS STANDARDS CODE
- (CALGREEN)
- 2022 CALIFORNIA ENERGY CODE
- 2022 CALIFORNIA FIRE CODE (C.F.C.), TITLE 24,C.C.R.
- DEFERRED SUBMITTALS
- HOOD FIRE SPRINKLERS

# OWNER

### RAMSEY OTEN GOALZ CHOCOLATE FACTORY

PHONE: +1 (949) 412-8299 EMAIL: RAMSEY@MACROGOALZ.COM ADDRESS: 24835 EAST LA PALMA, UNIT G, YORBA LINDA, CALIFORNIA 92887 UNITED STATES

### PROJE BEN H PRINCIPA PLANS DE MOSTA CIVIL ENG PLANS E.C MAGDY MECHANIC MECH.PLU REED S ELECTRIC ELEC. E.O.

NO FIRE SPRINKLERS OR FIRE ALARM CHANGES IS PART OF THIS DEFFERED SUBMITTALS PLANS TO THE FIRE DEPARTEMENT FOR APPROVAL PRIOR TO COMMENCMENT OF WORK.

### 2.FIRE WATCH

1.<u>SCOPE</u>

- MADE INACTIVE TO ACCOMMODATE SPRINKLER WORK.
- 3.TESTS AND INSPECTIONS G.C. SHALL BE RESPONSIBLE FOR ALL FINAL TESTS AND INSPECTIONS OF COMPLETED WORK REQUIRED BY THE OWNER PRIOR TO OCCUPANCY OF SPACE.
- G.C. SHALL PROPERLY TEST AND INSPECT EXISTING SPRINKLER SYSTEM PRIOR TO COMMENCEMENT OF WORK, AND SHALL NOTIFY BUILDING OWNER AND ARCHITECT IMMEDIATELY IF REPAIR WORK OF EXISTING SPRINKLER SYSTEM IS REQUIRED.
- 4.TEMPORARY DISCONNECT
- 5.PERMITS AND APPROVALS
- CONJUNCTION WITH CHANGES TO EXISTING SPRINKLER SYSTEM.

### DESIGN PROFESSIONAL IN CHARGE GENERAL **RESPONSIBLE STATEMENT**

THE POT IDENTIFIED IN THESE CONSTRUCTION DOCUMENTS IS COMPLIANT WITH THE CURRENT APPLICABLE CALIFORNIA BUILDING CODE ACCESSIBILITY PROVISIONS FOR PATH OF TRAVEL REQUIREMENTS FOR ALTERATIONS, ADDITIONS AND STRUCTURAL REPAIRS. AS PART OF THE DESIGN OF THIS PROJECT, THE POT WAS EXAMINED AND ANY ELEMENTS, COMPONENTS OR PORTIONS OF THE POT THAT WERE DETERMINED TO BE NONCOMPLIANT

- 1) HAVE BEEN IDENTIFIED AND
- WORK THROUGH DETAILS, DRAWINGS AND SPECIFICATIONS INCORPORATED INTO THESE CONSTRUCTION DOCUMENTS. ANY VALUATION THRESHOLD LIMITATIONS OR A FINDING OF UNREASONABLE HARDSHIP ARE SO INDICATED IN THESE CONSTRUCTION DOCUMENTS.
- A PART OF THIS PROJECT BY MEANS OF A CONSTRUCTION CHANGE DOCUMENT.

# PROJECT SCOPE OF WORK

### EXISTING UNIT "G" INTERIOR TENANT IMPROVEMENT TO UPGRADE AS FOOD PROCESSING ( CHOCOLATE ) WHOLE SALE PRODUCTION CENTER. TENANT

IMPROVEMENT TO BE LIMITED TO INTERIOR PARTITION WALLS, INTERIOR CEILING, WALLS, FLOORING & BASE FINISHES UPGRADE. PLUMBING SCOPE INCLUDES INSTALLATION OF TWO NEW HAND WASH SINKS ONE THREE COMPARTMENT SINK & EXTENSION OF PLUMBING TO ACCOMODATE THE ADDITIONAL FIXTURES

# **DESIGN & ENGINEERING**

.C.R.		& ENGINEERING
	O C:	: 714-844-2140 : 951-903-2284 ANDENGINEERING.COM
	PROJECT'S TEAM	
	BEN HAMED, A.M.AIA., ASCE. PRINCIPAL ENGINEER PLANS DESIGNER	E: BEN@ACCANDENGINEERING.COM
Μ	MOSTAFA BAYOUMI, P.E CIVIL ENGINEER PLANS E.O.R	E: MOSTAFAPE@ACCANDENGINEERING.COM
	MAGDY REZK, P.E MECHANICAL ENGINEER MECH.PLUMBING E.O.R	E: MAGDY@ACCANDENGINEERING.COM
	REED STOUT, P.E ELECTRICAL ENGINEER ELEC. E.O.R.	E: REEDSTOUT@ACCANDENGINEERING.COM
FIRE	DEPARTMENT NO	DTES
ES IS PART	OF THIS PROJECT SUBMITTALS.	FOR THE HOOD FIRE SPRINKLERS SUBMIT

G.C. SHALL BE RESPONSIBLE FOR TEMPORARY FIRE WATCH AND ALL PROTECTIVE MEASURES REQUIRED BY OWNER WHEN SYSTEM IS

G.C. SHALL COORDINATE ARRANGEMENTS FOR TEMPORARY DISCONNECT AND RECONNECT OF FIRE SYSTEMS WITH OWNER.

G.C. SHALL BE RESPONSIBLE FOR OBTAINING PERMITS AND APPROVALS REQUIRED BY BUILDING INSPECTORS AND FIRE MARSHAL IN

2) THE CORRECTIVE WORK NECESSARY TO BRING THEM INTO COMPLIANCE HAS BEEN INCLUDED WITHIN THE SCOPE OF THIS PROJECTS NONCOMPLIANT ELEMENTS, COMPONENTS OR PORTIONS OF THE POT THAT WILL NOT BE CORRECTED BY THIS PROJECT BASED ON

### 3)DURING CONSTRUCTION, IF POT ITEMS WITHIN THE SCOPE OF THE PROJECT REPRESENTED AS CODE COMPLIANT ARE FOUND TO BE NONCONFORMING BEYOND REASONABLE CONSTRUCTION TOLERANCES, THEY SHALL BE BROUGHT INTO COMPLIANCE WITH THE CBC AS

### **BUILDING LEGAL DESCRIPTION & DATA**

ADDRESS:	24835 LA PALMA AVE, YORBA LINDA, CA 92887 UNIT "G"		STORY	SPACE FUNCTION	OCCUPANCY			
LEGAL DESCRIPTION:	COMMERCIAL INDUST. WITH WAREHOUSE SPACE			OFFICES & RECEP. SPACE	BUSINESS USE			
LEGAL JURISDICTION:	CITY OF YORBA LINDA BUILDING DEPARTEMENT		1	FOOD PREPARATION/LAB	MANUFACTURING			
APN/Parcel ID:	353-131-10		I	CLEANING ROOM	KITCHEN			
LOT#:	N/A			DRY STORAGE	STORAGE			
LOT SIZE:	1.49 ( NO CHANGES )			RESTROOMS + HALLWAY				
SUITE "G" SQUARE FOOTAGE:	3300 FT <sup>2</sup> (NO CHANGES )			STOCKROOM (WAREHOUSE)				
LAND USE:	REGIONAL SHOPPING CENTER OR MALL				TOTAL NET OCCUP			
OCCUPANT LOAD:	29		2022 CB	C TABLE 1004 EGRESS BASED	ON OCCUPANT LO			
NO. OF STORIES:	(ONE).		EGRESS & EXITIN					
PROPOSED OCCUPANCY USE:	FACTORY INDUSTRIAL GROUP F-2		4 707					
OCCUPANCY :	В			AL OCCUPANT LOAD BER OF EXITS REQUIRED PER	OCCUPANT LOAD (			
TYPE OF CONSTRUCTION:	II-A / TILT UP WALLS		3.MAXI	MUM EXIT ACCESS / COMMON	PATH OF EGRESS			
HIGH-RISE:	NO							
FIRE ALARM:	(E) YES		EGRE	ESS ANALYSIS CONCL	USION			
SPRINKLER TYPE:	(E) NFPA			NG EGRESS PATH OF TRAVEL				
HANDICAP ACCESSIBILITY:	HANDICAP ACCESSIBILITY: THIS PROJECT HAS BEEN DESIGNED TO BE COMPLAISANCE WITH THE STATE OF CALIFORNIA TITLE 24ACCESSIBILITY REQUIREMENTS.		SINCE THE SPACE PROVIDED WITH TWO EXITS.					

### **FACILITY OWNERS STATEMENTS :**

I. NUMBER OF EMPLOYEES (INCLUDING MANAGERS): 4

2. NO FOOD ITEMS LIKE FRUITS AND VEGETABLES ARE TO BE USED IN THIS FACILITY. 3. NO GREASE OR OIL PRODUCING EQUIPMENT TO BE USED IN THIS FACILITY. 4. THIS FACILITY IS STRICTLY FOR WHOLESALE OPERTAION AND NOT OPEN TO PUBLIC 5. THE LARGEST VESSEL TO BE USED IN THIS FACILITY IS -------

	REQUIRED PLUMBING FIXTURES								
STORY	OCCUPANCY GROUP	OL	WATER CLOSETS	URINALS	LAVATORIES	BATHTUBS/SHOWERS	DRINKING FOUNTAINS	OTHER	COMPLIANCE
1	В	16	MALE:1 FEMALE:1	MALE:1	MALE:1 FEMALE:1		0.13	1 SERVICE SINK	YES
NOT	NOTES:								

1- UNISEX RESTROOMS ARE ALLOWED WHEN THE TOTAL OCCUPANT LOAD IS 50 OR LESS. SINCE THE SPACE HAS AN OCCUPANT LOAD OF 16, A UNISEX RESTROOM IS PERMISSIBLE (CALIFORNIA PLUMBING CODE 2022, 422.2). 2- IF A UNISEX RESTROOM IS PROVIDED, IT CAN CONTAIN A MAXIMUM OF ONE LAVATORY, AND TWO WATER CLOSETS WITHOUT URINALS OR ONE WATER

CLOSET AND ONE URINAL (CALIFORNIA BUILDING CODE 2022 (VOL 1 & 2),11B-213.2.1). 3-ALL UNISEX RESTROOM DOORS SHOULD HAVE PRIVACY LATCHES (CALIFORNIA BUILDING CODE 2022 (VOL 1 & 2), 11B-213.2.1).

4-UNISEX RESTROOMS NEED TO BE MARKED WITH AN APPROPRIATE SIGN, SUCH AS THE COMBINED CIRCLE AND TRIANGLE SYMBOL SPECIFIED IN THE CALIFORNIA BUILDING CODE 2022 (VOL 1 & 2), 11B-703.7.2.6.3.

OTHER ANALYSIS

1- SEE SITE PLAN SHEET A-00 FOR PARKING LOT CALCULATION. 2- SEE SHEET G-100/200 FOR MORE ADA COMPLIANCE DETAILS & NOTES

### 1. THESE DRAWINGS DO NOT CONTAIN ALL THE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY.

- 2. LOCATIONS OF ALL UTILITIES SHOWN ARE APPROXIMATE AND D. BUILDING ACCESS: ACCESS TO BUILDINGS FOR THE PURPOSE CONTRACTOR SHALL EXERCISE EXTREME CAUTION IN EXCAVATING AND TRENCHING ON THIS SITE TO AVOID INTERCEPTING EXISTING PIPING OR CONDUITS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE ALL EXISTING UTILITIES WHETHER SHOWN HEREON OR NOT AND TO PROTECT THEM FROM DAMAGE. THE DESIGNER IS NOT RESPONSIBLE FOR THE LOCATION OF UNDERGROUND UTILITIES OR STRUCTURES WHETHER OR NOT SHOWN OR DETAILED AND INSTALLED BY ANY OTHER CONTRACT. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ARCHITECT SHOULD ANY UNIDENTIFIED CONDITIONS BE DISCOVERED. THE CONTRACTOR SHALL BEAR ALL EXPENSE OF REPAIR OR REPLACEMENT OF UTILITIES OR OTHER PROPERTY DAMAGED BY OPERATIONS IN CONJUNCTION WITH THE EXECUTION OF THIS WORK.
- THESE DOCUMENTS AND THE IDEAS AND DESIGNS INCORPORATED HEREIN, AS AN INSTRUMENT OF PROFESSIONAL SERVICE, ARE THE PROPERTY OF ACC & ENGINEERING, AND ARE NOT TO BE USED, IN WHOLE OR IN PART, FOR ANY OTHER PROJECT WITHOUT THE WRITTEN AUTHORIZATION OF ACC & ENGINEERING
- 4. THE WORK SHOWN ON THESE DRAWINGS AS EXISTING CONDITIONS WAS PREPARED FROM INFORMATION FURNISHED BY THE OWNER. WHILE THIS INFORMATION IS BELIEVED TO BE RELIABLE, ACC & ENGINEERING IS NOT RESPONSIBLE FOR THE ACCURACY OR ADEQUACY OF ANY WORK SHOWN AS EXISTING NOR IS ACC & ENGINEERING RESPONSIBLE FOR ANY ERRORS OR OMISSIONS WHICH MAY HAVE BEEN INCORPORATED INTO THESE DRAWINGS AS A RESULT.
- CONTRACTOR SHALL POSSESS AT THE TIME OF PERMIT ISSUANCE A CLASS B OR THE APPROPRIATE CLASS C CONTRACTOR'S LICENSE PURSUANT TO PUBLIC CONTRACT CODE SECTION 3300 AND BUSINESS AND PROFESSIONS CODE SECTION 7028.15. THE SUCCESSFUL BIDDER MUST MAINTAIN THE LICENSE THROUGHOUT THE DURATION OF THIS CONTRACT.
- 6. FIRE SAFETY DURING CONSTRUCTION
- A. GENERAL: FIRE SAFETY DURING CONSTRUCTION SHALL COMPLY WITH CALIFORNIA FIRE CODE (CFC) CALIFORNIA CODE OF REGULATIONS (CCR) TITLE 24, PART 9, CHAPTER 5 AND CHAPTER 33.
- B. ACCESS ROADS: FIRE DEPARTMENT ACCESS ROADS SHALL BE ESTABLISHED AND MAINTAINED IN ACCORDANCE WITH CHAPTER 5, SECTION 501.4 AND CHAPTER 33, SECTION 3310.

### C. WATER SUPPLY: WATER MAINS AND HYDRANTS SHALL BE OPERATIONAL IN ACCORDANCE WITH CHAPTER 5, SECTION 501.4 AND CHAPTER 33, SECTION 3312.

- OF FIREFIGHTING SHALL BE PROVIDED. CONSTRUCTION MATERIAL SHALL NOT BLOCK ACCESS TO BUILDINGS, HYDRANTS OR FIRE APPLIANCES.
- E. ALTERATIONS OF BUILDINGS: SHALL COMPLY WITH APPLICABLE PROVISIONS OF CHAPTER 33.
- F. DEMOLITION OF BUILDINGS: SHALL COMPLY WITH APPLICABLE PROVISIONS OF CHAPTER 33.
- G. FIRE WATCH: MAINTAIN FIRE WATCH WHEN REQUIRED BY THE BUILDING OFFICIAL AND WHEN EXISTING FIRE PROTECTION SYSTEMS ARE SHUT DOWN FOR ALTERATIONS IN ACCORDANCE WITH CHAPTER 33, SECTION 3304.5. FIRE WATCH SHALL REMAIN IN EFFECT UNTIL EXISTING FIRE PROTECTION SYSTEMS ARE RETURNED TO SERVICE OR AS ALLOWED BY THE BUILDING OFFICIAL.
- PENETRATIONS TO FIRE RATED MATERIALS OR ASSEMBLIES SHALL BE RESTORED TO EQUAL RATING. FIRE STOP SYSTEMS AS LISTED BY UNDERWRITERS LABORATORIES SHALL BE INSTALLED PER FIRE RESISTANCE DIRECTORY. FIRE STOP SYSTEMS SHALL BE AS SPECIFIED.
- 8. NONRESIDENTIAL ENERGY STANDARDS COMPLIANCE STATEMENT (TITLE 24, PART 6):

THE DESIGN INDICATED HEREIN COMPLIES WITH THE REQUIREMENTS OF THE ENERGY CONSERVATION STANDARDS OF TITLE 24, PART 6, CALIFORNIA CODE OF REGULATIONS. THE PROPOSED BUILDING(S) WILL BE IN COMPLIANCE WITH THE ENERGY CONSERVATION STANDARDS PROVIDED IT (THEY) IS (ARE) BUILT ACCORDING TO THESE DRAWINGS AND SPECIFICATIONS AND PROVIDED ANY FUTURE IMPROVEMENTS ARE COMPLETED ACCORDING TO THE REQUIREMENTS OF TITLE 24, PART 6, CALIFORNIA CODE OF REGULATIONS. THESE PLANS AND SPECIFICATIONS HAVE BEEN PREPARED TO INCLUDE ALL SIGNIFICANT ENERGY CONSERVATION FEATURES REQUIRED FOR COMPLIANCE WITH THE STANDARDS. BUILDING AREAS THAT ARE UNCONDITIONED AND/OR NOT SUBJECT TO THE STANDARDS ARE INDICATED ON THE PLANS.

ENVELOPE MANDATORY MEASURES:

- A. INSTALLED INSULATING MATERIALS SHALL HAVE BEEN CERTIFIED BY THE MANUFACTURER TO COMPLY WITH THE CALIFORNIA QUALITY STANDARDS FOR INSULATING MATERIAL
- B. ALL INSULATING MATERIALS SHALL BE INSTALLED IN COMPLIANCE WITH THE FLAME SPREAD RATING AND SMOKE DENSITY REQUIREMENTS OF TITLE 24, PART 2, CALIFORNIA CODE OF REGULATIONS, SECTIONS 720 AND 2603.

### 2 CBC TABLE 1004 EGRESS BASED ON OCCUPANT L EGRESS & EXIT TOTAL OCCUPANT LOAD NUMBER OF EXITS REQUIRED PER OCCUPANT LOAD MAXIMUM EXIT ACCESS / COMMON PATH OF EGRESS

HEALTH DEPARTMENT GENERAL NOTES: PROCESSED FOOD TYPE : CHOCOLATE PUBLIC ACCESS : NO PUBLIC ACCESS PACKAGING : YES STORAGE : YES METHOD OF PRODUCT SALES : SHIPPING & WHOLE SALE **GREASE PRODUCTION : NO COOKING APPLIANCES THAT MAY P** FATS, OIL, AND GREASE ARE ALLOWED.

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# ABBREVIATIONS

# TYPICAL SYMBOLS

& @ ''	CENTERLINE PLATE AND AT OR ABOUT FOOT INCH OR REPEAT POUND OR NUMBER
+/-	VERIFY IN FIELD
A.B.	ANCHOR BOLT
A.C.	ASPHALTIC CONCRETE
A/C	AIR CONDITIONING
ACC.	ACCESSIBLE
ADJ.	ADJUSTABLE / ADJACENT
A.F.F.	ABOVE FINISH FLOOR
AGGR.	AGGREGATE
ALUM.	ALUMINUM
ANOD.	ANODIZED
APPROX.	APPROXIMATE
ARCH.	ARCHITECTURAL
ASPH.	ASPHALT
ASSY.	ASSEMBLY
ACT.	ACOUSTICAL TILE
BD.	BOARD
BITUM.	BITUMINOUS
BLDG.	BUILDING
BLK.	BLOCK
BLKG.	BLOCKING
BM.	BEAM
B.M.	BENCHMARK
BOT.	BOTTOM
B/S	BOTH SIDES
B.W.	BOTH WAYS
CAB. C.B. CEM. CER. C.F.M. C.J. CLG. CLO. CLR. C.M.U. COL. CONC. CONC. CONN. CONSTR. CONT. CONT. CONTR. CONT. CON.	CABINET CATCH BASIN CEMENT CERAMIC CUBIC FEET PER MINUTE CAST IRON CEILING JOIST OR CONTROL JOINT CEILING CLOSET CLEAR CONCRETE MASONRY UNIT COLUMN COMPOSITION CONCRETE CONNECTION CONSTRUCTION CONSTRUCTION CONSTRUCTION CONTINUOUS CONTRACTOR CORRIDOR CRUSHER RUN BASE COUNTERSUNK CERAMIC TILE CYLINDER
DBL. DEPT. D.F. DF DG DIA. DIAG. DIM. DISP. DN. DN. DN. DN. DN. DN. DN. DN. DN. DN	DOUBLE DEPARTMENT DETAIL DRINKING FOUNTAIN DOUGLAS FIR DRYWALL GRID DIAMETER DIAGONAL DIMENSION DISPENSER / DISPOSAL DOWN DITTO / REPEAT DOOR DOWN SPOUT DRY STANDPIPE DRAWING DRAWER
(E)	EXISTING
E.	EAST / ENAMEL
EA.	EACH
EE	EACH END
E.G.	EXISTING GRADE
E.J.	EXPANSION JOINT
EL.	ELEVATION
ELEC.	ELECTRICAL
ELEV.	ELEVATOR / ELEVATION
EMER.	EMERGENCY
ENCL.	ENCLOSURE
E.O.S.	EDGE OF SLAB
EQ.	EQUAL
EQPT.	EQUIPMENT
E.S.	EACH SIDE
E.W.	EACH WAY
E.O.C.	EDGE OF CONCRETE
EXH.	EXHAUST
EXIST.	EXISTING
EXP.	EXPANSION
EXPO.	EXPOSED
FLUOR.	FLUORESCENT
FNDN.	FOUNDATION
F.O.C.	FACE OF CONCRETE/CURB
F.O.F.	FACE OF FINISH
F.O.A.	FACE OF ALUMINUM
F.O.G	FACE OF GLAZING

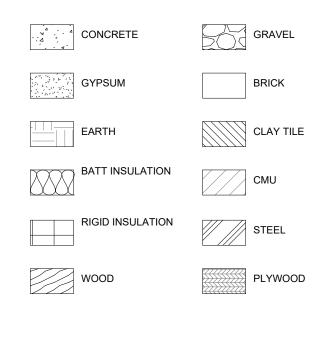
F.O.G.

FACE OF GLAZING

PLWD. P.M. PNL. P/P PR.	PLYWOOD PRESSED METAL PANEL PUSH-PULL PAIR
PREFAB. PT.	PREFABRICATED POINT
Q.T. R. R.A. RAD. R.C.P.	QUARRY TILE RISER / RADIUS RETURN AIR RADIUS REINFORCED CLAY PIPE
R.D. REC. REF. REF. REV. REV. REG. RESIL. R.H. RM. R.O. RS RSM RWD.	ROOF DRAIN RECESSED / RECIEVING RECEPTACLE REFERENCE REFRIGERATOR REVERSE REGISTER / REGULAR REINFORCED REQUIRED RESILIENT ROUND HEAD ROOM ROUGH OPENING ROLLER SHADE ROLLER SHADE ROLLER SHADE MOTORIZED REDWOOD
STOR. STRUCT. SUSP. SYM	SUSPENDED SYMMETRICAL
TEXT. T&G THK. THRSH.THR T.L. TOIL. T.O.P. T.O.S	TOP OF LEDGER TOILET TOP OF PARAPET TOP OF STEEL TELEVISION TOP OF WALL
UNFIN. U.N.O.	UNDERWRITER'S LAB UNFINISHED UNLESS NOTED OTHERWISE URINAL
VEST. V.G.	URINAL VINYL VINYL COMPOSTION TILE VENEER VENTILATOR VERTICAL VESTIBULE VERTICAL GRAIN VERIFY ON JOB VENT THRU ROOF VINYL WALL COVERING
W. W/ WSCT. WD. WH. W.H. W/O WP. W.R. W.S. WT. W.W.M. WO\	WEST / WOMEN WITH WAINSCOT WATER CLOSET WOOD WATER HEATER WROUGHT IRON WITHOUT WATERPROOF WATER RESISTANT WOOD SCREW WEIGHT

GRID HEAD / LINES	0		
REVISION TAG	$\underline{1}$		
WALL TYPE TAG			
WINDOW TYPE	$\langle 1i \rangle$		
DOOR TAG / NUMBER	(101A)		
KEYNOTE TAG			
		INDICATES MODIFICATION	
CASEWORK TAG	12" 36"	UNIT HEIGHT* WI DESIGNATION	
PROVIDE LOCK,	<u>↓</u> 48"	UNIT LENGTH	
	CLUDES COUNTE	RTOP	
COLOR TAG	CMU-1	-	
F ROOM TAG	ROOM NAME	ROOM NUMBER	
	101		WALL SECTION REFERENCE
		ELEVATION NUMBER	
EXTERIOR ELEVATION	(A401	SHEET NUMBER	CALLOUT DESIGNATION
/		ELEVATION NUMBER	
	4 A601 2	SHEET NUMBER	
	3	DETAIL NUMBER	SPOT ELEVATION
DETAIL REFERENCE	A101		
		SHEET NUMBER	
BUILDING SECTION REFERENCE			CEILING HEIGHT TAG
	A101	SHEET NUMBER	
	A	SECTION NUMBER	
	A101		
		SHEET NUMBER	
		j	
		SHEET NUMBER	
	10' - 0"		
	Q		
		HEIGHT PER TED CEILING PLAN	
	9' - 0"		
	$\checkmark$		

# MATERIAL LEGEND



# MANDATORY PROJECT'S SPECIFIC COMPLIANCE NOTES

### GENERAL REQUIRTMENTS

1. THE CONSTRUCTION SHALL NOT RESTRICT A FIVE-FOOT CLEAR AND UNOBSTRUCTED ACCESS TO ANY WATER OR POWER DISTRIBUTION FACILITIES (POWER POLES, PULL BOXES, TRANSFORMERS, VAULTS, PUMPS, VALVES, METERS, APPURTENANCES, ETC.) OR TO THE LOCATION OF THE HOOK-UP. THE CONSTRUCTION SHALL NOT BE WITHIN TEN FEET OF ANY POWER LINES-WHETHER OR NOT THE LINES ARE LOCATED ON THE PROPERTY. FAILURE TO COMPLY MAY CAUSE CONSTRUCTION DELAYS AND/OR ADDITIONAL EXPENSES.

2. AN APPROVED SEISMIC GAS SHUTOFF VALVE WILL BE INSTALLED ON THE FUEL GAS LINE ON THE DOWNSTREAM SIDE OF THE UTILITY METER AND BE RIGIDLY CONNECTED TO THE EXTERIOR OF THE BUILDING OR STRUCTURE CONTAINING THE FULE GAS PIPING. (INCLUDES COMMERCIAL ADDITIONS AND T.I. WORK OVER \$10,000).SEE PLUMBING SHEETS.

2. A COPY OF THE EVALUATION REPORT AND/OR CONDITIONS OF LISTING SHALL BE MADE AVAILABLE AT THE JOB SITE.

### DISABLED ACCESS REQUIREMENTS (DOORS, GATES & HARDWARE)

- 1. EVERY REQUIRED ENTRANCE OR PASSAGE DOORWAY SHALL BE OF A SIZE AS TO PERMIT THE INSTALLATION OF A DOOR NOT LESS THAN 3'-0" IN WIDTH AND NOT LESS THAN 6'-8" IN HEIGHT. DOORS SHALL BE CAPABLE OF OPENING AT LEAST 90 DEGREES AND SHALL BE SO MOUNTED THAT THE CLEAR WIDTH OF THE DOORWAY IS NOT LESS THAN 32".
- 2. WHERE A PAIR OF DOORS IS UTILIZED, AT LEAST ONE OF THE DOORS SHALL PROVIDE A CLEAR UNOBSTRUCTED OPENING WIDTH OF 32" WITH THE LEAF POSITIONED AT AN ANGLE OF 90 DEGREES FROM ITS CLOSED POSITION.
- 3. LATCHING AND LOCKING DOORS THAT ARE HAND ACTIVATED AND WHICH ARE IN A PATH OF TRAVEL, SHALL BE OPERABLE WITH A SINGLE EFFORT BY LEVER TYPE HARDWARE, PANIC BARS, PUSH-PULL ACTIVATING BARS, OR OTHER HARDWARE DESIGNED TO PROVIDE PASSAGE WITHOUT REQUIRING THE ABILITY TO GRASP THE OPENING HARDWARE.
- 4. THE MINIMUM HEIGHT TO DOOR HARDWARE IS 34" A.F.F.
- 5. THE FLOOR OR LANDING ON EACH SIDE OF AN ENTRANCE OR PASSAGE DOOR SHALL BE LEVEL AND CLEAR. THE LEVEL AND CLEAR AREA SHALL HAVE A LENGTH IN THE DIRECTION OF DOOR SWING OF AT LEAST 60" AND THE LENGTH OPPOSITE THE DIRECTION OF DOOR SWING OF 48" AS MEASURED AT RIGHT ANGLES TO THE PLANE OF THE DOOR IN ITS CLOSED POSITION.
- 6. THE WIDTH OF THE LEVEL AND CLEAR AREA ON THE PULL SIDE OF THE DOOR SHALL EXTEND 24" PAST THE STRIKE EDGE OF THE DOOR FOR EXTERIOR DOORS AND 18" PAST THE STRIKE EDGE FOR INTERIOR DOORS. WHERE THE PLANE OF THE DOORWAY IS OFFSET OR LOCATED IN AN ALCOVE A DISTANCE MORE THAN 8 INCHES MEASURED FROM THE PLANE OF THE DOORWAY TO THE FACE OF THE WALL, THE DOOR SHALL BE PROVIDED WITH 60 INCHES MANEUVERING CLEARANCE FOR FRONT APPROACH. SIDE OF A DOOR. THE LEVEL AREA SHALL HAVE A LENGTH IN THE DIRECTION OF DOOR SWING OF AT LEAST 60 INCHES AND THE LENGTH OPPOSITE THE DIRECTION OF DOOR SWING OF 48 INCHES AS MEASURED AT RIGHT ANGLES TO THE PLANE OF THE DOOR IN THE CLOSED POSITION.
- 8. THE BOTTOM 10" OF ALL DOORS EXCEPT AUTOMATIC AND SLIDING SHALL HAVE A SMOOTH UNINTERRUPTED SURFACE TO ALLOW THE DOOR TO BE OPENED BY A WHEELCHAIR FOOTREST WITHOUT CREATING A TRAP OR HAZARDOUS CONDITION. WHERE NARROW FRAME DOORS ARE USED, A 10" HIGH SMOOTH PANEL SHALL BE INSTALLED ON THE PUSH SIDE OF THE DOOR, WHICH WILL ALLOW THE DOOR TO BE OPENED BY A WHEELCHAIR FOOTREST WITHOUT CREATING A TRAP OR HAZARDOUS CONDITION.
- 9. A NARROW FRAME WITH A BEVELED TOP EDGE (30 DEGREES MAXIMUM BEVEL TO VERTICAL PLANE) INSTALLED AT THE BOTTOM OF A GLASS DOOR (WITH NO SIDE FRAMES) MAY BE USED IN LIEU OF PROVIDING THE REQUIRED 10" UNINTERRUPTED SURFACE AT THE BOTTOM OF THE DOOR. MAXIMUM EFFORT TO OPERATE DOORS SHALL NOT EXCEED 5 POUNDS FOR EXTERIOR DOORS AND 5 POUNDS FOR INTERIOR DOORS. SUCH PULL OR PUSH EFFORT BEING APPLIED AT RIGHT ANGLES TO HINGED DOORS AND AT THE CENTER PLANE OF SLIDING OR FOLDING DOORS. COMPENSATING DEVICES OR AUTOMATIC DOOR OPERATORS MAY BE UTILIZED TO MEET THE ABOVE STANDARDS. WHEN FIRE DOORS ARE REQUIRED, THE MAXIMUM EFFORT TO OPERATE THE DOOR MAY NOT TO EXCEED 15 POUNDS.
- 10. WHEN SANITARY FACILITIES ARE LOCATED ON ACCESSIBLE FLOORS OF A BUILDING, THEY SHALL BE MADE ACCESSIBLE TO THE PHYSICALLY DISABLED.
- 11. UNISEX SANITARY FACILITIES SHALL BE IDENTIFIED BY A CIRCLE 1/4" THICK, 12" IN DIAMETER WITH 1/4" THICK TRIANGLE SUPERIMPOSED ON THE CIRCLE AND WITHIN THE 12" DIAMETER, SEE DETAIL 3/A6.
- 12. THERE SHALL BE SUFFICIENT SPACE IN THE TOILET ROOM FOR A WHEELCHAIR MEASURING 30" WIDE BY 48" LONG TO ENTER THE ROOM AND PERMIT THE DOOR TO CLOSE.
- 13. THE WATER CLOSET SHALL BE LOCATED IN A SPACE WHICH PROVIDES A 28" CLEAR SPACE FROM A FIXTURE OR A 32" WIDE CLEAR SPACE FROM A WALL AT ONE SIDE AND 48" OF CLEAR SPACE IN FRONT OF THE WATER CLOSET.

13a. PROVIDE ONE ACCESSIBLE WATER CLOSET WITH A MINIMUM MANEUVERING SPACE OF 60 INCHES WIDE X 48 INCHES IN DEPTH IN FRONT OF THE WATER CLOSET.

14.THE DISTANCE BETWEEN THE CENTER LINE OF A WATER CLOSET AND AN ADJOINING WALL SHALL BE 15-1/2" MINIMUM, 19" MAXIMUM.

FLOOR OR GROUND SURFACES WITHIN REQUIRED DOOR MANEUVERING CLEARANCES SHALL BE STABLE, FIRM, AND SLIP RESISTANT. SURFACES SHALL BE BE LEVEL WITH A SLOPE NOT STEEPER THAN 1:48. CHANGES IN LEVEL ARE NOT PERMITTED EXCEPT AT THRESHOLDS. OPENING IN FLOOR SHALL NOT ALLOW PASSAGE OF SPHERE MORE THAN 1/2" DIAMETER. (11B-302.2) (11B-404.2.4.4)

### THRESHOLDS AT DOORWAYS:

THRESHOLDS SHALL BE 1/2" HIGH MAXIMUM. RAISED THRESHOLDS AND CHANGES IN LEVEL AT DOORWAYS SHALL COMPLY WITH SECTION 11B-302 AND 11B-303. (11B-404.2.5) DOOR OPENING FORCE:

MAXIMUM FORCE TO FOR PUSHING OR PULLING OPEN, EXTERIOR OR INTERIOR HINGED DOORS WITH CLOSERS AND SLIDING OR FOLDING DOORS, SHALL NOT EXCEED FIVE POUNDS. (118-404,2.9)

SWINGING DOOR AND GATE SURFACES WITHIN 10 INCHES OF THE FINISH FLOOR SHALL HAVE A SMOOTH SURFACE ON THE PUSH SIDE EXTENDING THE FULL WIDTH OF THE DOOR OR GATE. PARTS CREATING HORIZONTAL OR VERTICAL JOINTS IN THESE SURFACES SHALL BE WITHIN 1/16" OF THE SAME PLANE AS THE OTHER. (11B-404.2.6)

NOTE: WALL AND CEILING MATERIAL SHALL NOT EXCEED THE FLAME SPREAD RATING REQUIRED AS PER SEC. 803.5 TENANT SPACES, MAIN ENTRANCES AND EXITS, PATH OF TRAVEL, SANITARY FACILITIES, DRINKING FOUNTAINS AND PUBLIC TELEPHONES SERVING THE TENANT SPACE SHALL BE ACCESSIBLE TO PERSONS WITH DISABILITIES. CITY INSPECTOR SHALL VERIFY AT FIELD FOR COMPLIANCE PRIOR TO FINAL INSPECTION.

### ACCESS. LEGEND

- A.F.F. TO CENTERLINE OF SIGN.
- SIGNAGE DETAIL ON SHEET G2.1 FOR ADDITIONAL INFORMATION.
- 4 PROVIDE INTERNATIONAL SYMBOL OF ACCESSIBILITY TO FRONT COUNTER STATING DIRECTLY MOUNT UNDER COUNTERTOP IN A CONSPICUOUS PLACE
- 5 PROVIDE TACTILE GRADE-2 CALIFORNIA CONTRACTED BRAILLE EXIT

1. EACH GRADE-LEVEL EXTERIOR EXIT DOOR SHALL BE IDENTIFIED BY A TACTILE EXIT SIGN WITH THE WORD

2. EACH EXIT DOOR THAT LEADS DIRECTLY TO A GRADE-LEVEL EXTERIOR EXIT BY MEANS OF A STAIRWAY OR RAMP SHALL BE IDENTIFIED BY A TACTILE SIGN WITH THE FOLLOWING WORDS AS APPROPRIATE: a."EXIT STAIR DOWN" D. "FIT RAMP DOWN" C."FIT STAIR Up"

d."FIT RAMP Up"

PASSAGEWAY SHALL BE IDENTIFIED BY A EXIT SIGN WITH THE WORDS "EXIT ROUTE".

4. EACH EXIT ACCESS DOOR FROM AN INTERIOR ROOM OR AREA THAT IS REQUIRED TO HAVE A VISUAL EXIT SIGN, SHALL BE IDENTIFIED BY A TACTILE EXIT SIGN WITH THE WORDS "TO EXIT".

INDICATE

5. EACH EXIT DOOR THROUGH A HORIZONTAL EXIT SHALL BE IDENTIFIED BY A TACTILE EXIT SIGN WITH THE WORDS "TO EXIT" 6. EXIT SIGNS SHALL BE VISIBLE FROM ANY DIRECTION OF APPROACH AND EXIT SIGNS SHALL BE LOCATED TO CLEARLY THE DIRECTION OF EGRESS TRAVEL AND SUCH THAT NO POINT SHALL BE MORE THAN 100 FEET FROM THE NEAREST VISIBLE SIGN.

EXIT SIGNS SHALL BE CONNECTED TO AN EMERGENCY ELECTRICAL POWER SYSTEM (STORAGE BATTERIES, UNIT EQUIPMENT, OR AN ON SITE GENERATOR SET OR AN APPROVED SELF LUMINOUS SYSTEM THAT PROVDES CONTINUOUS ILLUMINATION INDEPENDENT OF THE EXTERNAL POWER SOURCE TO ENSURE THAT THE EXIT SIGNS ARE ILLUMINATED AT ALL TIME. MINIMUM 90 MIN BATTERY BACKUP REQUIRED CBC 1011.5.3

3. THE POWER SUPPLY FOR MEANS OF EGRESS ILLUMINATION SHALL NORMALLY BE PROVIDED BY THE PREMISES' ELECTRICAL SUPPLY IN THE EVENT OF POWER SUPPLY FAILURE, AN EMERGENCY ELECTRICAL SYSTEM SHALL AUTOMATICALLY ILLUMINATE THE EGRESS SYSTEM. TACTILE SIGN NOTES

### FIRE LIFE SAFETY SYSTEM:

a. ANY MODIFICATIONS TO THE FIRE LIFE SAFETY SYSTEM, SHALL BE SUBMITTED TO THE FIRE DEPT. FOR APPROVAL PRIOR TO CHANGE. b. PROVIDE 2-A10BC FIRE EXTINGUISHER EVERY 75 FEET OF TRAVEL.

### ACCESSIBLE DOOR NOTES:

### DOOR AND GATE SURFACE:

PROVIDE INTERNATIONAL SYMBOL OF ACCESSIBILITY - MOUNT 60"

2 PROVIDE TACTILE GRADE-2 CONTRACTED BRAILLE WALL SIGN -REFER TO RESTROOM

3 PROVIDE ACCESSIBLE RESTROOM DOOR SIGNAGE - REFER TO RESTROOM SIGNAGE DETAIL G2.1 FOR ADDITIONAL INFORMATION.

"THIS CHECK STAND TO BE OPEN AT ALL TIMES FOR CUSTOMERS WITH DISABILITIES" -

SIGN WITH THE WORD "EXIT" AT EACH-LEVEL EXTERIOR EXIT DOOR

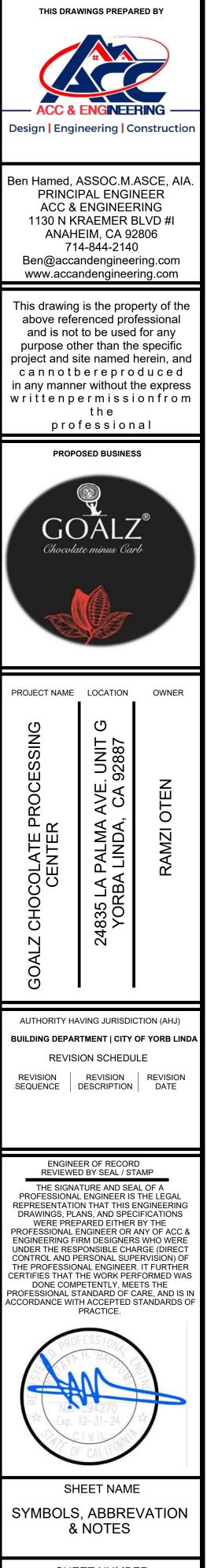
6 CEILING MOUNTED EXIT LIGHT WITH BATTERY BACKUP / SEE REFLECTED CEILING PLAN FOR EXACT LOCATION.

7 34" H ACCESSIBLE CASHIER COUNTER WITH MIN. 30" x 48" CLEAR FLOOR SPACE FOR PARALLEL APPROACH AT FRONT COUNTER.

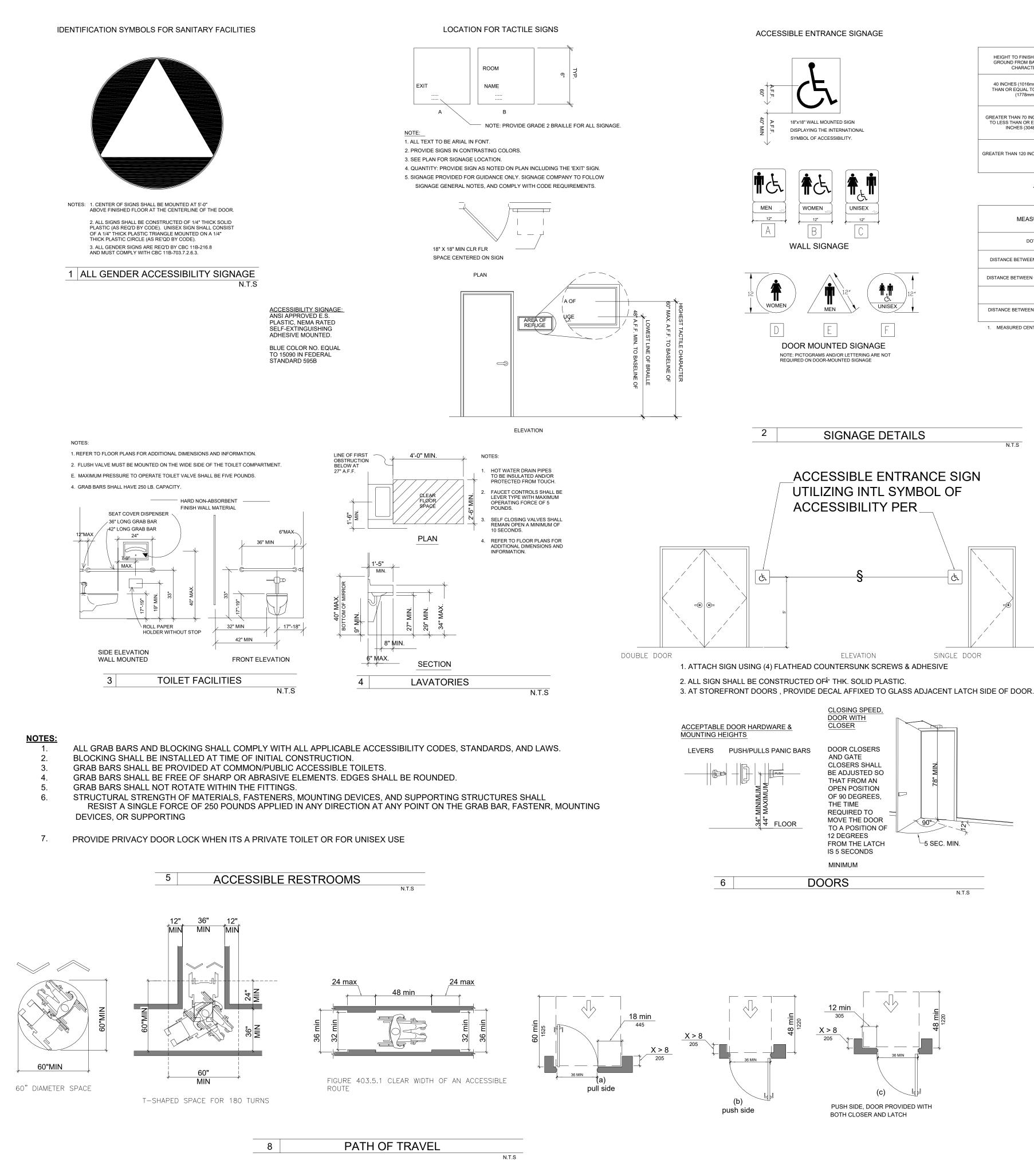
8 PROVIDE FIRE EXTINGUISHER CABINET/SEE EQUIPMENT SCHEDULE FOR DETAILS.

### EXIT NOTES

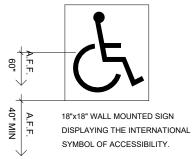
# 3. FACH DOOR THAT LEADS DIRECTLY TO A GRADE-LEVEL EXTERIOR EXIT BY MEANS OF AN EXIT ENCLOSURE OR EXIT

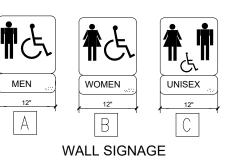


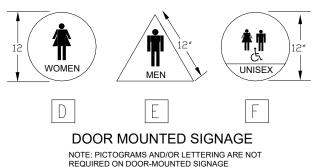
SHEET NUMBER G-001











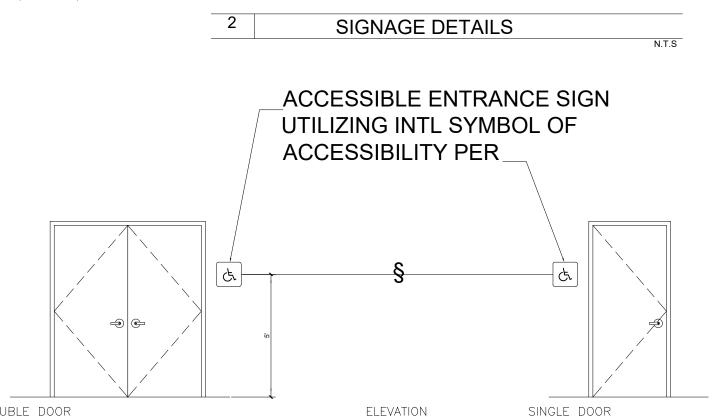


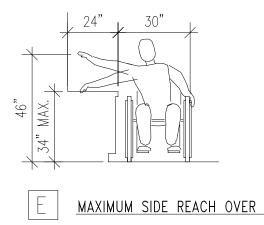
HEIGHT TO FINISH FLOOR OR GROUND FROM BASELINE OF CHARACTER	HORIZONTAL VIEWING DISTANCE	MINIMUM CHARACTER HEIGHT
40 INCHES (1016mm) TO LESS	LESS THAN 72 INCHES (1829 mm)	+INCHES (15.9mm)
THAN OR EQUAL TO 70 INCHES (1778mm)	72 INCHES (1829mm) AND GREATER	+INCHES (15.9mm), PLUS +(3.2 mm) PER FOOT (305mm) OF VIEWING DISTANCE ABOVE 72 INCHES (1629mm)
GREATER THAN 70 INCHES (1778mm)	LESS THAN 180 INCHES (4572 mm)	2 INCHES (51 mm)
TO LESS THAN OR EQUAL TO 120 INCHES (3048 mm)	180 INCHES (4572mm) AND GREATER	+INCHES (15.9mm), PLUS +(3.2 mm) PER FOOT (305mm) OF VIEWING DISTANCE ABOVE 180 INCHES (4572mm)
	LESS THAN 21 FEET (6401 mm)	3 INCHES (76mm)
GREATER THAN 120 INCHES (3048mm)	21 FEET (6401 mm) AND GREATER	+INCHES (15.9mm), PLUS +(3.2 mm) PER FOOT (305mm) OF VIEWING DISTANCE ABOVE 180 INCHES (4572mm)

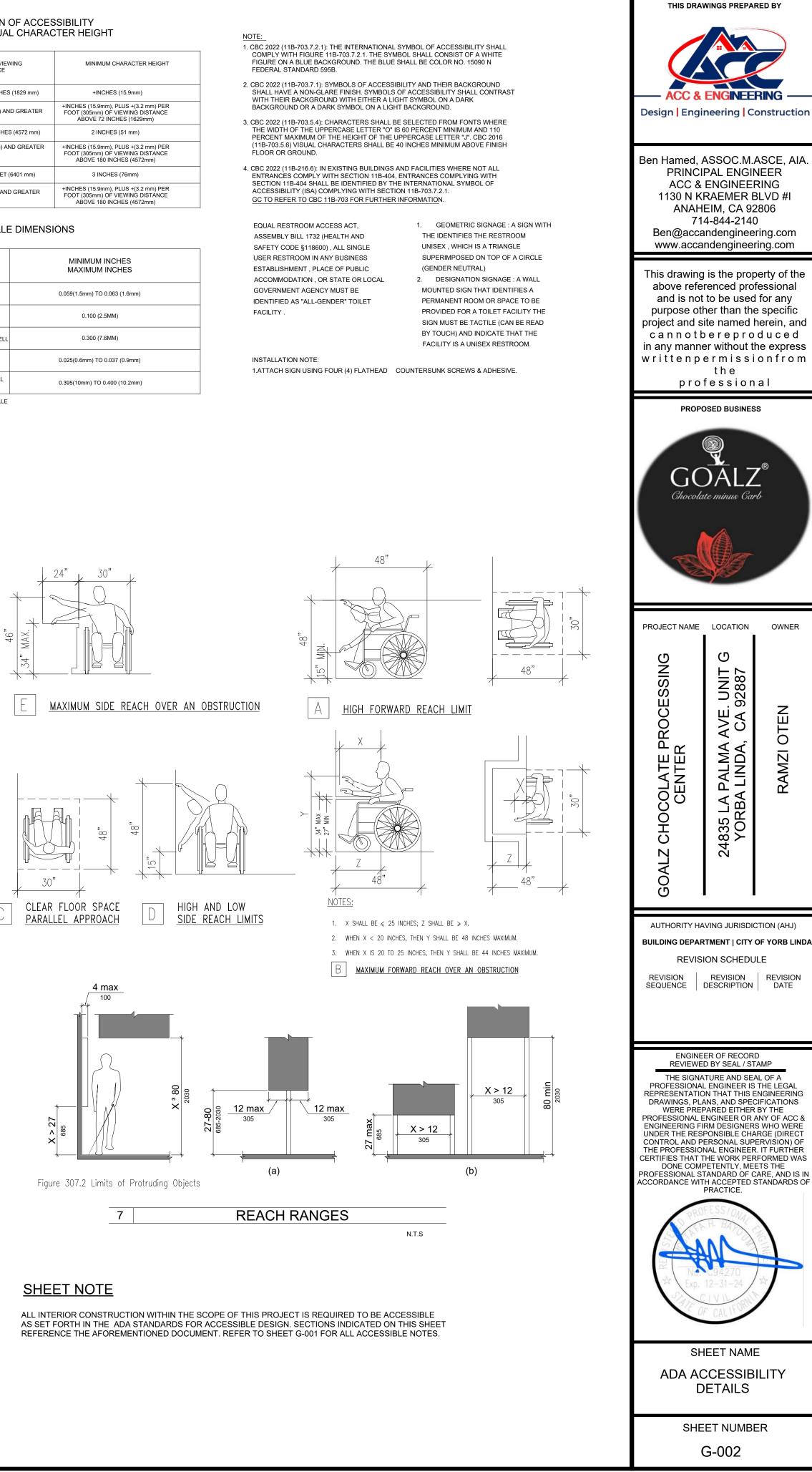
TABLE 11B-703.3.1 BRAILLE DIMENSIONS

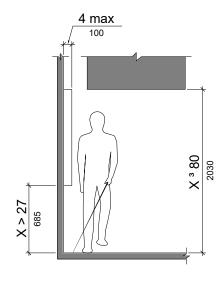
MEASUREMENT RANGE	MINIMUM INCHES MAXIMUM INCHES
DOT BASE DIMETER	0.059(1.5mm) TO 0.063 (1.6mm)
DISTANCE BETWEEN TOW DOTS IN SAME SELL	0.100 (2.5MM)
DISTANCE BETWEEN CORRESPONDING DOTS IN ADJACENT CELL	0.300 (7.6MM)
DOT HEIGHT	0.025(0.6mm) TO 0.037 (0.9mm)
DISTANCE BETWEEN CORRESPONDING DOTS FROM ONE CELL DIRECTLY BELOW	0.395(10mm) TO 0.400 (10.2mm)
1. MEASURED CENTER TO CENTER (FIGURE 11B-703.1 BRAILLE	

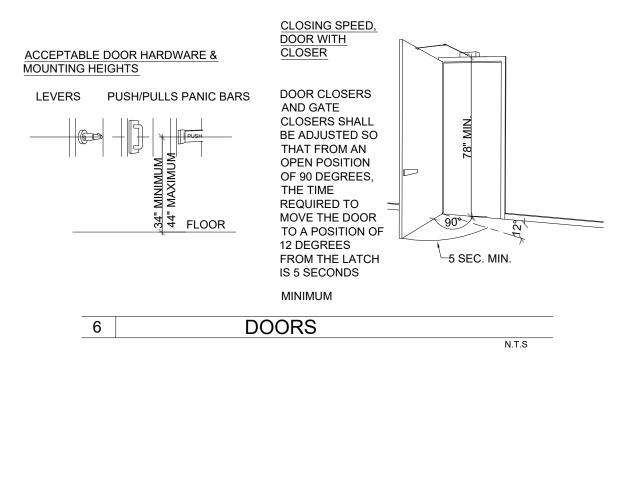
MEASURED CENTER TO CENTER (FIGURE 11B-703.1 BRAILLE MEASUREMENT

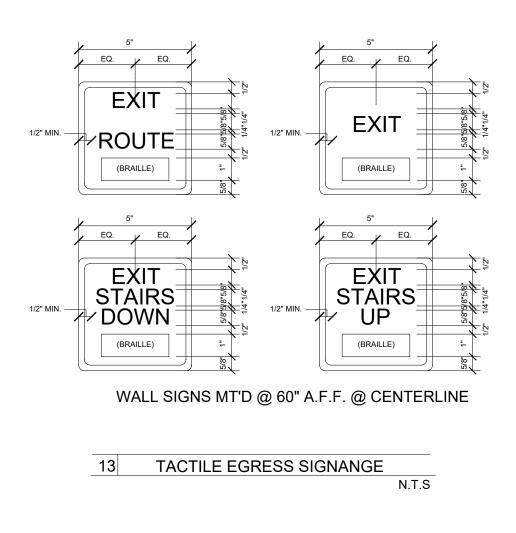


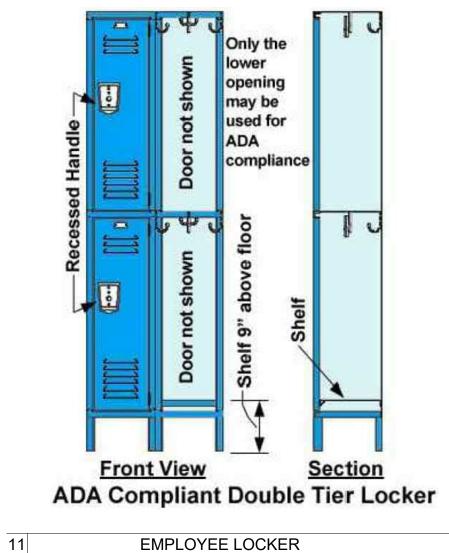




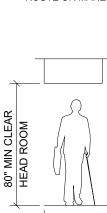




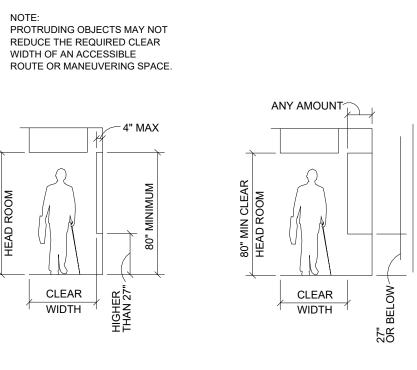




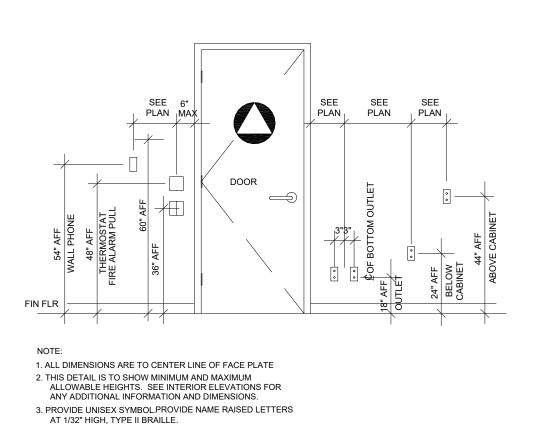
N.T.S



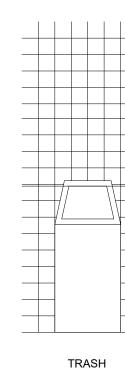
NOTE:



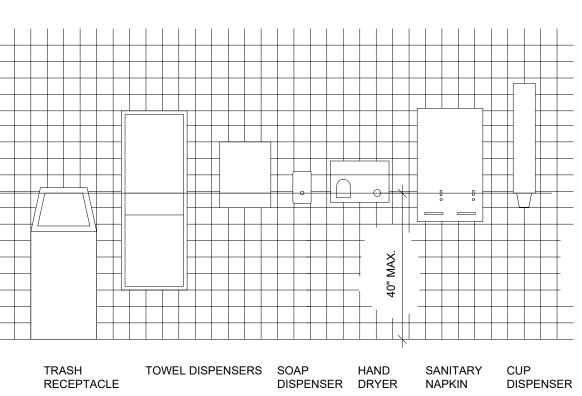
14 ACCESSIBLE ROUTE CLEARANCE N.T.S



15 POWER & COMMUNICATION HEIGHTS N.T.S



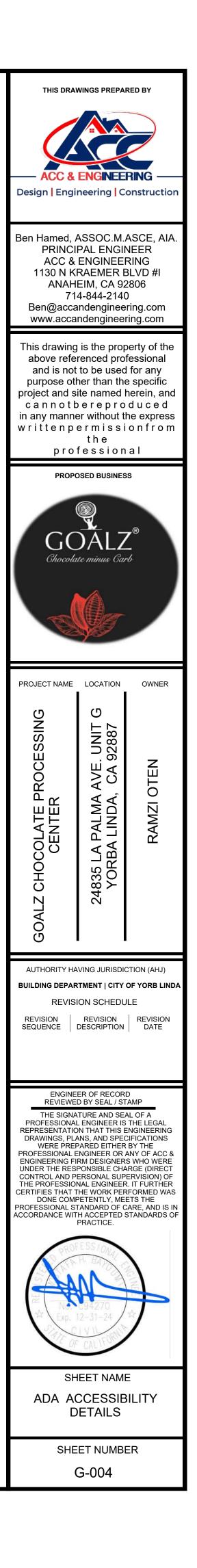
NOTE:



THIS DETAIL IS TO SHOW MAXIMUM ALLOWABLE HEIGHTS FOR ALL OPERABLE CONTROLS OF THE ACCESSORY TO BE INSTALLED. SEE INTERIOR ELEVATIONS FOR ANY ADDITIONAL INFORMATION AND DIMENSIONS.

N.T.S

16 RESTROOM ACCESS HEIGHTS





# California 2022 CALIFORNIA GREEN BUILDING STANDARDS CODE

NONRESIDENTIAL MANDATORY MEASURES, SHEET 1 (January 2023)

enacted storm than one acre ne acre or mo nent or sale m scharge Elimin d Land Distur uality Control	ENTION FOR PROJECTS THAT DIST mwater discharge regulations for project of land but are part of a larger commo re of land, or (2) disturb less than one a nust comply with the post-construction r hation System (NPDES) General permi bance Activities issued by the State W Board (for projects in the Lake Tahoe I	ts that (1) disturb one acre or on plan of development sale. acre of land but are part of the requirements detailed in the it for Stormwater Discharges ater Resources Control Board or Hydrologic Unit).	Y N/A RESPON. PARTY	5.106.5.3.3 Use of a ALMS shall be perm specified in Section 5.106.5.3.1 for each EVSE controlled by a and shall deliver a m 5.106.5.3.4 Accessi When EVSE is insta <i>Code</i> , Chapter 11B, Note: For EVCS sign Signs and Pavemen	itted for EVCS. 1 EVCS may be r an ALMS shall d inimum 3.3 kW ble EVCS. Iled, accessible Section 11B-220 ns, refer to Caltr	When ALMS is i educed when se leliver a minimu while simultane EVSC shall be p 8.3. ans Traffic Ope	installed, the rec erviced by an EV m 30 amperes tr ously charging r provided in acco	uired electrical /SE controlled I o an EV when c nultiple EVs. ordance with the	by an ALMS. Eac harging one veh California Build	ch icle		RESPON. PARTY	MAXIMUM ALLOWAB GLARE RATING 5 (G) MAXIMUM ALLOWAB GLARE RATING 5 (G) MAXIMUM ALLOWAB GLARE RATING 5 (G) MAXIMUM ALLOWAB
installation of ion through o such as Low li	runoff (post-project hydrology) to matc postconstruction stormwater managem n-site stormwater use, interception, eva mpact Development (LID) practices, an using nonstructural practices is require gency.	nent measures. The NPDES apotranspiration, and infiltration ad conversation design measures.		5.106.5.4 Electric Vehicle ( Construction shall comply wi equipment (EVSE). Construct spaces shall also comply wit Exceptions:	Signs and Pavement Markings) or its successor(s). 5.106.5.4 Electric Vehicle (EV) charging: medium-duty and heavy-duty. [N] Construction shall comply with section 5.106.5.4.1 to facilitate future installation of electric vehicle supply equipment (EVSE). Construction for warehouses, grocery stores and retail stores with planned off-street loadi spaces shall also comply with Section 5.106.5.4.1 for future installation of medium- and heavy-duty EVSE. Eventions:								GLARE RATING 5 (G)       1. IESNA Lighting Zone       Code and Chapter 10 o       2. For property lines th
uctionstormw I design proce	State Water Resources Control Board ater. Consideration to the stormwater r ass for appropriate integration into site of within the sutherity of California Building	unoff management measures development.		a. Where b. Where c. Where	t feasible based there is no loca the local utility there is eviden	upon one of the al utility power s is unable to sup ice suitable to th	e following cond upply. oply adequate po ne local enforcing	itions: ower. g agency substa	antiating that				considered to be 5 feet property lines that abut centerline of the public section.
with Section 5, comply wit	vithin the authority of California Building 5.106.4.1. For buildings within the aut h Section 5.106.4.2 Comply with Sections 5.106.4.1.1 and	hority of the Division of the State			n 5.106.5.3, may installed, it shall	/ adversely impa	act the construct	tion cost of the					<ol> <li>General lighting lumination ratings. Decorative lumination</li> </ol>
e, whichever is term bicycle traffic, provide sible to passe num of one tw		lition or alteration is anticipated vithin 200 feet of the visitors' vehicle parking spaces being		5.106.5.4.1 Electric vehicle ch with planned off-street loadin [N] In order to avoid future de raceways(s) or busway(s) installed at the time of co specifications shall includ 1. The transfor requirement	g spaces. emolition when a ) and adequate nstruction in acc le but are not lim mer, main servio	adding EV charg capacity for tran cordance with th nited to, the follo ce equipment ar	ing supply and ousformers(s), ser e California Elec wing: nd subpanel sha	distribution equi vice panels(s) c ctrical Code. Co Il meet the mini	pment, spare or subpanel(s) sh nstruction plans	nall be and			5.106.8.1 Facing- Back Luminaries within 2N and shall comply wit the nearest point of t Exception: Cor to the luminaire, directly behind t lines to determin
provide secur num of one b	parking. For new buildings with tenant e bicycle parking for 5 percent of the te icycle parking facility.	nant-occupant vehicular parking		installation o 2. The construc offstreet load	f EVSE. ction documents ding space(s) re	shall indicate o served for medi	n or more location um-and heavy-d	on(s) convenier luty ZEV chargii					5.106.8.2 Facing-Glare. For luminaires cover 2MH of the luminaire 5.106.8 based on the
cle parking fo cycle parking		king spaces being added, with a		5.106.5.4.1 3. Raceway(s)	or busway(s) or	iginating at a ma		l or a subpanel(	own in Table (s) serving the ar nall terminate in o				Note: [N] 1.See also Californ
occupant vehi	gs in phased projects provide secure b cular parking spaces with a minimum o arking facility for Sections 5.106.4.1.2,	of one bicycle parking facility.		proximity to l vehicles. 4. The raceway	the potential futu (s) or busway(s	ure location of th	e charging equi	pments for means for means for means and the minimum a	lium- and heavy- idditional system	-duty			parking facilities an 2.Refer to Chapter A-1, <i>California End</i>
the street an lockable encl	d shall meet one of the following: osures with permanently anchored rack			to the future 5.106.5.4.1.	location of the c	charging for med	dium- and heavy	-duty ZEVs as 9	shown in Table				<ol> <li>Refer to the Ca</li> <li>5.106.10 GRADING ANI manage all surface v</li> </ol>
permanently onal informati	s with permanently anchored racks; or anchored bicycle lockers. on on recommended bicycle accommo	dations may be obtained from		TABLE 5.106.5.4.1 RA									water include, but ar 1. Swales. 2. Water collection
Area Bicycle g. [DSA-SS]	Advocates. For public schools and community col	lleges, comply with Sections						A		-			<ol> <li>French drains.</li> <li>Water retention</li> <li>Other water means</li> </ol>
nimum of four <b>bicycle parki</b> two staff bicyc	rking. Provide permanently anchored r two-bike capacity racks per new build ng. Provide permanent, secure bicycle cle parking spaces per new building. Ac et or staff parking area and shall meet	ing. parking conveniently accessed cceptable bicycle parking facilities		BUILDING TYPE	BUILDING SIZ	ZE (SQ. FT.)	NUMBER ( OFF-STRE LOADING SP/	DF REC ET FOF ACES BU	CAPACITY QUIRED (KVA) R RACEWAY & JSWAY AND NSFORMER & PANEL				Exception: 5.106.12 SHADE TREES and 5.106.12.3. Perr necessary to establis
lockable encl	osures with permanently anchored rack with permanently anchored racks; or				10,000 to	90,000	1 or 2		200	-			5.106.12.1 Surface to provide shade ove Exceptions
	anchored bicycle lockers. [N] Construction to provide electric vel	hicle infrastructure and facilitate		Grocery	Greater tha	an 90,000	3 or Greate		400 400				materials th lieu of shad
	Section 5.106.5.3.1 and shall be provid and the California Electrical Code.	ed in accordance with		Retail	10,000 to	135,000	1 or 2 3 or Greate	er	200 400	_			5.106.12.2 Landsca provide shade of 200
ction is not fea	pasis where the local enforcing agency asible based upon one of the following no local utility power supply				Greater that 20,000 to		1 or Greate 1 or 2	ər	400 200				Exceptions 5.106.12.3. Hardsc provide shade over 2
here the loca here there is cal utility infra	I utility is unable to supply adequate po evidence suitable to the local enforcem structure design requirements, directly	nent agency substantiating the related to the implementation of		Warehouse	Greater that		3 or Greate		400 400	-			Exceptions 1. Walks, hardsca materials that c
g spaces acce	.3, may adversely impact the construct essible only by automated mechanical of with this code section			5.106.8 LIGHT POLLUTION REI with the following:	DUCTION. [N].	Outdoor lightin	g systems shall l	be designed and	d installed to con	nply			of shade tree p 2. Designated and DIVISION 5.2
ays complying er shall be pro	e provided in accordance with Table 5. g with the California Electrical Code and ovided and shall originate at a service p	d no less that 1-inch (25 mm) panel or a subpanel(s) serving		<ol> <li>The minimum requiremed Section 10-114 of the C</li> <li>Backlight (B) ratings as</li> <li>Uplight and Glare rating Chepter 2) and Clare</li> </ol>	alifornia Adminis defined in IES T	strative Code; an M-15-11 (shown	nd n in Table A-1 in	Chapter 8);					SECTION 5.201 ( 5.201.1 Scope [BSC-CG standards in this code, th
o a suitable li: serve multip	erminate in close proximity to the propo sted cabinet, box,enclosure or equivale le EV charging spaces. ubpanel (s) shall be provided with pane	ent. A common raceway may be		Chapter 8) and 4. Allowable BUG ratings r lawfully enacted pursual				or Comply with	a local ordinance	Э			DIVISION 5.3 SECTION 5.301
ty for a dedicate space, with	ted 208/240 volt, 40-ampere minimum delivery of 30-ampere minimum to an i n and any on-site distribution transform	branch circuit for each EV installed EVSE at each EVCS.		Exceptions: [N] 1. Luminaires that q 2. Emergency lighti		ions in Sections	130.2 (b) and 14	40.7 of the Calif	ornia Energy Coo	de.			5.301.1 Scope. The pro and in wastewater conve
oly full rated a rvice panel or ive devices sp	mperage at each EV capable space. subpanel circuit directory shall identify pace(s) as "EV CAPABLE". The racewa	the reserved overcurrent		<ol> <li>Building facade r</li> <li>Custom lighting f Alternate materia</li> </ol>	neeting the requ eatures as allow als, designs and	red by the local of methods of const	enforcing agency struction.						SECTION 5.302 I 5.302.1 Definitions. The EVAPOTRANSPIRATIO
space served	ibly marked as "EV CAPABLE." by electric vehicle supply equipment or at least one standard automobile parki	•		5. Luminaires with I	ess than 6,200 i	nitiai luminaire li	umens.						reference evapotranspira the amount of water that
ny applicable	minimum parking space requirements ction 22511.2 for further details.			TABLE 5.106.8 [N] MA			BACKLIGHT	Γ,		8			FOOTPRINT AREA [DS. not including exterior are METERING FAUCET. A
		NUMBER OF EVCS (EV		UPLIGHT AND GLARE		LIGHTING	LIGHTING	LIGHTING	LIGHTING				volume or cycle duration GRAYWATER. Pursuar
CTUAL S	NUMBER OF REQUIRED EV CAPABLE SPACES	CAPABLE SPACES PROVIDED WITH EVSE)*2		MAXIMUM ALLOWABLE	LZO	ZONE LZ1	ZONE LZ2	ZONE LZ3	ZONE LZ4				has not been contaminat bodily wastes, and does operating wastes. "Gray
	0 2	0		BACKLIGHT RATING 3 Luminaire greater than 2 mounting heights (MH) from	N/A	No Limit	No Limit	No Limit	No Limit				washbasins, clothes was dishwashers.
	8	2 3		property line Luminaire back hemisphere is	039960000	allowers would think a	494-6623095240942-0	And the State of Control Mark	unereer as resident on				MODEL WATER EFFICI design, installation and n landscapes greater than
	17	4		1-2 MH from property line Luminaire back hemisphere is	N/A	B2	B3	B4	B4				climatological parameters
	25	6 9		0.5-1 MH from property line Luminaire back hemisphere is	N/A	B1	B2	B3	B3				(California Code of Regu maintenance practices. as effective as the MWEI
	20% of total <sup>1</sup>	25% of EV capable spaces <sup>1</sup>		less than 0.5 MH from property line	N/A	B0	В0	B1	B2				POTABLE WATER. Wa Water Standards. See de
of required E	electrical supply. /CS (EV capable spaces provided with V capable spaces shown in column 2.			MAXIMUM ALLOWABLE UPLIGHT RATING (U) For area lighting 3	N/A	UO	UO	UO					POTABLE WATER. [HC U.S. Environmental Prote
shall be prov CS required	ng stations (EVCS) ided with EVSE to create EVCS in the by Table 5.106.5.3.1 may be provided Charging (DCFC), except that at least of	with EVSE in any combination of		For all other outdoor lighting,including decorative luminaires	N/A	U1	U2	U3	UR	1			Having Jurisdiction. RECYCLED WATER. W controlled use that would treated to remove waste
	nnectors capable of charging multiple B pacity required by Section 5.106.5.3.1 / charger.												SUBMETER. [HCD 1] A unit within a multiunit res 1954.202 (g) and Water of WATER BUDGET. Is th
	/SE shall be permitted to reduce the n five and reduce proportionally the req												Water allowance calculate Ordinance (MWELO).
	VARIABLES BETWEEN BUILDING DEPAR	TMENT JURISDICTIONS, THIS CHECKL	IST IS TO BE USEL	D ON AN INDIVIDUAL PROJECT BASIS A	ND MAY BE MOD	IFIED BY THE EN	D USER TO MEET	THOSE INDIVIDU	AL NEEDS. THE E	ND USER A	ASSUI	MES ALL	RESPONSIBILITY ASSOCIAT

Y	-	YES
N/A	-	NOT APPLICABLE
RESPON. PARTY	-	RESPONSIBLE PARTY (ie: ARCHITECT, ENGINE OWNER, CONTRACTOR, INSPECTOR ETC.)

	N/A	G1	G2	G3	G4
	N/A	G0	G1	G1	G2
	N/A	G0	G0	G1	G1
-	N/A	G0	G0	G0	G1

nes 0 and 5 are not applicable; refer to Lighting Zones as defined in the *California Energy* of the *California Administrative Code*.

t beyond the actual property line for purpose of determining compliance with this section. For t public roadways and public transit corridors, the property line may be considered to be the roadway or public transit corridor for the purpose of determining compliance with this

inaires in areas such as outdoor parking, sales or storage lots shall meet these reduced ninaries located in these areas shall meet *U*-value limits for "all other outdoor lighting"

MH of a property line shall be oriented so that the nearest property line is behind the fixture, th the backlight rating specified in Table 5.106.8 based on the lighting zone and distance to that property line. **rners.** If two property lines (or two segments of the same property line) have equidistant point

e, then the luminaire may be oriented so that the intersection of the two lines (the corner) is the luminaire. The luminaire shall still use the distance to the nearest points(s) on the property ne the required backlight rating.

red by 5.106.8.1, if a property line also exists within or extends into the front hemisphere within then the luminaire shall comply with the more stringent glare rating specified in Table be lighting zone and distance to the nearest point on the nearest property line within the front

mia Building Code, Chapter 12, Section 1205.6 for college campus lighting requirements for and walkways. er 8 (Compliance Forms, Worksheets and Reference Material) for IES TM-15-11 Table nergy Code Tables 130.2-A and 130.2-B.

alifornia Building Code for requirements for additions and alterations. ID PAVING. Construction plans shall indicate how site grading or a drainage system will water flows to keep water from entering buildings. Examples of methods to manage surface re not limited to, the following:

n and disposal systems.

n gardens. easures which keep surface water away from buildings and aid in groundwater recharge. : Additions and alterations not altering the drainage path.

**S [DSA-SS].** Shade Trees shall be planted to comply with Sections 5.106.12.1, 5.106.12.2, reentages shown shall be measured at noon on the summer solstice. Landscape irrigation ish and maintain tree health shall comply with Section 5.304.6.

**parking areas.** Shade tree plantings, minimum #10 container size or equal, shall be installed er 50 percent of the parking area within 15 years.

ns: Surface parking area covered by solar photovoltaic shade structures with roofing that comply with Table A5.106.11.2.2 in Appendix A5 shall be permitted in whole or in part in de tree planting.

**ape areas.** Shade tress plantings, minimum #10 container size or equal shall be installed to % of the landscape area within 15 years.

**ns:** Playfields for organized sport activity are not included in the total area calculation. **Icape areas.** Shade tree plantings, minimum #10 container size or equal shall be installed to 20 percent of the hardscape area within 15 years.

ape areas covered by solar photovoltaic shade structures or shade structures with roofing comply with Table A5.106.11.2.2 in Appendix A5 shall be permitted in whole or in part in lieu planting. d marked play areas of organized sport activity are not included in the total area calculation. ENERGY EFFICIENCY

# 

**G].** California Energy Code [DSA-SS]. For the purposes of mandatory energy efficiency he California Energy Commission will continue to adopt mandatory building standards.

# WATER EFFICIENCY AND CONSERVATION

ovisions of this chapter shall establish the means of conserving water use indoors, outdoors evance.

### DEFINITIONS ne following terms are defined in Chapter 2 (and are included here for reference)

ON ADJUSTMENT FACTOR (ETAF) [DSA-SS]. An adjustment factor when applied to ation that adjusts for plant factors and irrigation efficiency, which ae two major influences on t needs to be applied to the landscape.

**SA-SS].** The total area of the furthest exterior wall of the structure projected to natural grade, eas such as stairs, covered walkways, patios and decks.

A self-closing faucet that dispenses a specific volume of water for each actuation cycle. The n can be fixed or adjustable.

nt to Health and Safety Code Section 17922.12, "graywater" means untreated wastewater tha ted by any toilet discharge, has not been affected by infectious, contaminated, or unhealthy not present a threat from contamination by unhealthful processing, manufacturing, or ywater" includes, but is not limited to wastewater from bathtubs, showers, bathroom shing machines and laundry tubs, but does not include waste water from kitchen sinks or

**IENT LANDSCAPE ORDINANCE (MWELO).** The California ordinance regulating landscape maintenance practices that will ensure commercial, multifamily and other developer installed 2500 square feet meet an irrigation water budget developed based on landscaped area and recommercial.

**IENT LANDSCAPE ORDINANCE (MWELO). [HCD]** The California model ordinance ulations, Title 23, Division 2, Chapter 2.7), regulating landscape design, installation and Local agencies are required to adopt the updated MWELO, or adopt a local ordinance at least LO.

ater that is drinkable and meets the U.S. Environmental Protection Agency (EPA) Drinking lefinition in the California Plumbing Code, Part 5.

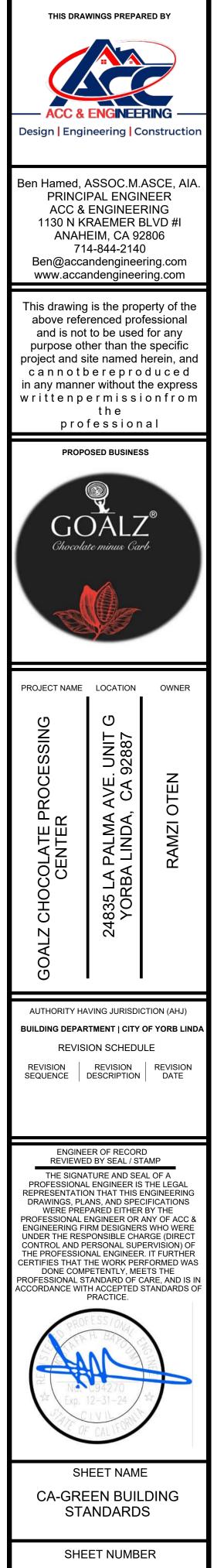
CD] Water that is satisfactory for drinking, culinary, and domestic purposes, and meets the tection Agency (EPA) Drinking Water Standards and the requirements of the Health Authority

Nater which, as a result of treatment of waste, is suitable for a direct beneficial use or a d not otherwise occur [Water Code Section 13050 (n)]. Simply put, recycled water is water attaining a quality that is suitable to use the water again.

A secondary device beyond a meter that measures water consumption of an individual rental sidential structure or mixed-use residential and commercial structure. (See Civic Code Section r code Section 517 for additional details.)

ne estimated total landscape irrigation water use which shall not exceed the maximum applied ted in accordance with the Department of Water Resources Model Efficient Landscape

TED WITH THE USE OF THIS DOCUMENT, INCLUDING VERIFICATION WITH THE FULL CODE.



GR-001

# California 2022 CALIFORNIA GREEN BUILDING STANDARDS CODE NONRESIDENTIAL MANDATORY MEASURES, SHEET 2 (January 2023)

			Sees we deal			OWNER, CONTRACTOR, INSPECTOR ETC.)
	Y N/A RESPON PARTY	L	Y N/A RESPO		Y N/A RESI PAR	PON. RTY
5.303.1 METERS. Separate submeters or metering devices shall be installed for the uses described in Sections				5.410.2 COMMISSIONING. [N] New buildings 10,000 square feet and over. For new buildings 10,000 square feet and over, building commissioning shall be included in the design and construction processes of the building project to verify that the building systems and components meet the owner's or owner representative's project requirements.		<b>5.410.4.4 Reporting.</b> After completion of testing, adjusting and balancing, provide a final report of testing signed by the individual responsible for performing these services.
5.303.1.1 Buildings in excess of 50,000 square feet. Separate submeters shall be installed as follows:		SECTION 5.402 DEFINITIONS 5.402.1 DEFINITIONS. The following terms are defined in Chapter 2 (and are included here for reference)		Commissioning shall be performed in accordance with this section by trained personnel with experience on projects of comparable size and complexity. For I-occupancies that are not regulated by OSHPD or for I-occupancies and L-occupancies that are not regulated y the California Energy Code Section 100.0 Scope, all requirements in Sections		5.410.4.5 Operation and maintenance (O & M) manual. Provide the building owner or representative wi detailed operating and maintenance instructions and copies of guaranties/warranties for each system. O & instructions shall be consistent with OSHA requirements in CCR, Title 8, Section 5142, and other related
more than 100 gal/day (380 L/day), including, but not limited to, spaces used for laundry or cleaners, restaurant or food service, medical or dental office, laboratory, or beauty salon or barber shop.		ADJUST. To regulate fluid flow rate and air patterns at the terminal equipment, such as to reduce fan speed or adjust a damper.		Note: For energy-related systems under the scope (Section 100) of the California Energy Code, including heating, ventilation, air conditioning (HVAC) systems and controls, indoor lighting systems and controls, as well as water		regulations. 5.410.4.5.1 Inspections and reports. Include a copy of all inspection verifications and reports required by the enforcing agency.
following subsystems: a. Makeup water for cooling towers where flow through is greater than 500 gpm (30 L/s). b. Makeup water for evaporative coolers greater than 6 gpm (0.04 L/s).		according to design quantities. BUILDING COMMISSIONING. A systematic quality assurance process that spans the entire design and construction		Commissioning requirements shall include:		DIVISION 5.5 ENVIRONMENTAL QUALITY
5.303.1.2 Excess consumption. A separate submeter or metering device shall be provided for any tenant		tested, operated and maintained to meet the owner's project requirements.		<ol> <li>Basis of design.</li> <li>Commissioning measures shown in the construction documents.</li> </ol>		SECTION 5.501 GENERAL 5.501.1 SCOPE. The provisions of this chapter shall outline means of reducing the quantity of air contaminants that are odorous, irritating, and/or harmful to the comfort and well-being of a building's installers, occupants and neight
5.303.3 WATER CONSERVING PLUMBING FIXTURES AND FITTINGS. Plumbing fixtures (water closets and		soiled paper waste that is mixed in with food waste. <b>TEST.</b> A procedure to determine quantitative performance of a system or equipment		<ol> <li>Functional performance testing.</li> <li>Documentation and training.</li> <li>Commissioning report.</li> </ol>		SECTION 5.502 DEFINITIONS 5.502.1 DEFINITIONS. The following terms are defined in Chapter 2 (and are included here for reference)
<b>5.303.3.1 Water Closets.</b> The effective flush volume of all water closets shall not exceed 1.28 gallons per flush. Tank-type water closets shall be certified to the performance criteria of the U.S. EPA WaterSense		SECTION 5.407 WATER RESISTANCE AND MOISTURE MANAGEMENT 5.407.1 WEATHER PROTECTION. Provide a weather-resistant exterior wall and foundation envelope as required by California Building Code Section 1402.2 (Weather Protection), manufacturer's installation instructions or local		Exceptions: 1. Unconditioned warehouses of any size.		ARTERIAL HIGHWAY. A general term denoting a highway primarily for through traffic usually on a continuous re A-WEIGHTED SOUND LEVEL (dBA). The sound pressure level in decibels as measured on a sound level meter using the internationally standardized A-weighting filter or as computed from sound spectral data to which A-weighting filter or as computed from sound spectral data to which A-weighting filter or as computed from sound spectral data to which A-weighting filter or as computed from sound spectral data to which A-weighting filter or as computed from sound spectral data to which A-weighting filter or as computed from sound spectral data to which A-weighting filter or as computed from sound spectral data to which A-weighting filter or as computed from sound spectral data to which A-weighting filter or as computed from sound spectral data to which A-weighting filter or as computed from sound spectral data to which A-weighting filter or as computed from sound spectral data to which A-weighting filter or as computed from sound spectral data to which A-weighting filter or as computed from sound spectral data to which A-weighting filter or as computed from sound spectral data to which A-weighting filter or as computed from sound spectral data to which A-weighting filter or as computed from sound spectral data to which A-weighting filter or as computed from sound spectral data to which A-weighting filter or as computed from sound spectral data to which A-weighting filter or as computed from sound spectral data to which A-weighting filter or as computed from sound spectral data to which A-weighting filter or as computed from sound spectral data to which A-weighting filter or as computed from sound spectral data to which A-weighting filter or as computed from sound spectral data to which A-weighting filter or as computed from sound spectral data to which A-weighting filter or as computed from sound spectral data to which A-weighting filter or as computed from sound spectral data to which A-weighting filter or as com
<b>Note:</b> The effective flush volume of dual flush toilets is defined as the composite, average flush volume of two reduced flushes and one full flush.		<ul> <li>ordinance, whichever is more stringent.</li> <li>5.407.2 MOISTURE CONTROL. Employ moisture control measures by the following methods.</li> </ul>		unconditioned warehouses. 3. Tenant improvements less than 10,000 square feet as described in Section 303.1.1.		adjustments have been made. <b>1 BTU/HOUR.</b> British thermal units per hour, also referred to as Btu. The amount of heat required to raise one po
5.303.3.2 Urinals. 5.303.3.2.1 Wall-mounted Urinals. The effective flush volume of wall-mounted urinals shall not exceed 0.125 gallons per flush.		<ul> <li>5.407.2.1 Sprinklers. Design and maintain landscape irrigation systems to prevent spray on structures.</li> <li>5.407.2.2 Entries and openings. Design exterior entries and/or openings subject to foot traffic or wind-driven rain to prevent water intrusion into buildings as follows:</li> </ul>		<b>Note:</b> For the purposes of this section, unconditioned shall mean a building, area, or room which does not provide heating and or air conditioning.		of water one degree Fahrenheit per hour, a common measure of heat transfer rate. A ton of refrigeration is 12,00 the amount of heat required to melt a ton (2,000 pounds) of ice at 32 <sup>0</sup> Fahrenheit. <b>COMMUNITY NOISE EQUIVALENT LEVEL (CNEL).</b> A metric similar to the day-night average sound level (Ldr
<b>5.303.3.2.2 Floor-mounted Urinals.</b> The effective flush volume of floor-mounted or other urinals shall not exceed 0.5 gallons per flush.		5.407.2.2.1 Exterior door protection. Primary exterior entries shall be covered to prevent water intrusion by using nonabsorbent floor and wall finishes within at least 2 feet around and perpendicular to		Informational Notes: 1. IAS AC 476 is an accreditation criteria for organizations providing training and/or certification of		except that a 5 decibel adjustment is added to the equivalent continuous sound exposure level for evening hours to 10pm) in addition to the 10 dB nighttime adjustment used in the Ldn. <b>COMPOSITE WOOD PRODUCTS.</b> Composite wood products include hardwood plywood, particleboard and me
<ul> <li>5.303.3.3 Showerheads. [BSC-CG]</li> <li>5.303.3.3.1 Single showerhead. Showerheads shall have a maximum flow rate of not more than 1.8 gallons per minute at 80 psi. Showerheads shall be certified to the performance criteria of the U.S. EPA WaterSense Specification for Showerheads.</li> </ul>		<ol> <li>An installed awning at least 4 feet in depth.</li> <li>The door is protected by a roof overhang at least 4 feet in depth.</li> <li>The door is recessed at least 4 feet.</li> </ol>		<ul><li>qualifications of commissioning personnel. AC 476 des not certify individuals to conduct functional performance tests or to adjust and balance systems.</li><li>2. Functional performance testing for heating, ventilation, air conditioning systems and lighting controls</li></ul>		density fiberboard. "Composite wood products" does not include hardwood plywood, particleboard and me density fiberboard. "Composite wood products" does not include hardboard, structural plywood, structural panels structural composite lumber, oriented strand board, glued laminated timber, timber, prefabricated wood I–joists o finger–jointed lumber, all as specified in California Code of Regulations (CCR), Title 17, Section 93120.1(a). Note: See CCR, Title 17, Section 93120.1.
<b>5.303.3.3.2 Multiple showerheads serving one shower.</b> When a shower is served by more than one showerhead, the combined flow rate of all the showerheads and/or other shower outlets controlled by a single valve shall not exceed 1.8 gallons per minute at 80 psi, or the shower shall be designed to		<ol> <li>Other methods which provide equivalent protection.</li> <li>5.407.2.2.2 Flashing. Install flashings integrated with a drainage plane.</li> </ol>				DAY-NIGHT AVERAGE SOUND LEVEL (Ldn). The A-weighted equivalent continuous sound exposure level for 24-hour period with a 10 dB adjustment added to sound levels occurring during nighttime hours (10p.m. to 7 a.m.
allow only one shower outlet to be in operation at a time. <b>Note:</b> A hand-held shower shall be considered a showerhead.		SECTION 5.408 CONSTRUCTION WASTE REDUCTION, DISPOSAL AND		requirements of the building appropriate to its phase shall be documented before the design phase of the project begins. This documentation shall include the following: 1. Environmental and sustainability goals.		<b>DECIBEL (db).</b> A measure on a logarithmic scale of the magnitude of a particular quantity (such as sound press sound power, sound intensity) with respect to a reference quantity.
<ul> <li>5.303.3.4 Faucets and fountains.</li> <li>5.303.3.4.1 Nonresidential Lavatory faucets. Lavatory faucets shall have a maximum flow rate of not more than 0.5 gallons per minute at 60 psi.</li> </ul>		<ul> <li>RECYCLING</li> <li>5.408.1 CONSTRUCTION WASTE MANAGEMENT. Recycle and/or salvage for reuse a minimum of 65% of the non-hazardous construction and demolition waste in accordance with Section 5.408.1.1, 5.408.1.2 or 5.408.1.3; or meet a local construction and demolition waste management ordinance, whichever is more stringent.</li> </ul>		<ol> <li>Indoor environmental quality requirements.</li> <li>Project program, including facility functions and hours of operation, and need for after hours operation.</li> <li>Equipment and systems expectations.</li> </ol>		<b>ELECTRIC VEHICLE (EV).</b> An automotive-type vehicle for on-road use, such as passenger automobiles, buses, trucks, vans, neighborhood electric vehicles, electric motorcycles, and the like, primarily powered by an electric runt that draws current from a rechargeable storage battery, fuel cell, photovoltaic array, or other source of electric cull Plug-in hybrid electric vehicles (PHEV) are considered electric vehicles. For purposes of the <i>California Electrical</i> off-road, self-propoelled electric vehicles, such as industrial trucks, hoists, lifts, transports, golf carts, airline ground trucks and the trucks of the carts of the trucks of the trucks.
<b>5.303.3.4.2 Kitchen faucets.</b> Kitchen faucets shall have a maximum flow rate of not more than 1.8 gallons per minute at 60 psi. Kitchen faucets may temporarily increase the flow above the maximum rate, but not to exceed 2.2 gallons per minute at 60 psi, and must default to a maximum flow rate of 1.8 gallons per minute at 60 psi.		<ul> <li>5.408.1.1 Construction waste management plan. Where a local jurisdiction does not have a construction and demolition waste management ordinance, submit a construction waste management plan that:</li> <li>1. Identifies the construction and demolition waste materials to be diverted from disposal by efficient</li> </ul>		<b>5.410.2.2 Basis of Design (BOD). [N]</b> A written explanation of how the design of the building systems meets the OPR shall be completed at the design phase of the building project. The Basis of Design document shall		support equipment, tractors, boats, and the like, are not included. ELECTRIC VEHICLE CHARGING STATION(S) (EVCS). One or more spaces intended for charging electric vehicles.
<b>5.303.3.4.3 Wash fountains.</b> Wash fountains shall have a maximum flow rate of not more than1.8 gallons per minute/20 [rim space (inches) at 60 psi].		<ul><li>usage, recycling, reuse on the project or salvage for future use or sale.</li><li>2. Determines if construction and demolition waste materials will be sorted on-site (source-separated) or bulk mixed (single stream).</li></ul>		cover the following systems:  1. Renewable energy systems.  2. Landscape irrigation systems.		ELECTRIC VEHICLE SUPPLY EQUIPMENT (EVSE). The conductors, including the ungrounded, grounded, and equipment grounding conductors and the electric vehicle connectors, attachment plugs, and all other fittings, dev power outlets, or apparatus installed specifically for the purpose of transferring energy between the premises wirit
<b>5.303.3.4.4 Metering faucets.</b> Metering faucets shall not deliver more than 0.20 gallons per cycle. <b>5.303.3.4.5 Metering faucets for wash fountains.</b> Metering faucets for wash fountains shall have a		<ol> <li>Specifies that the amount of construction and demolition waste materials diverted shall be calculated by weight or volume, but not by both.</li> </ol>		<ol> <li>Water reuse system.</li> <li>5.410.2.3 Commissioning plan. [N] Prior to permit issuance a commissioning plan shall be completed to document how the project will be commissioned. The commissioning plan shall include the following:</li> </ol>		and the electric vehicle. ENERGY EQUIVALENT (NOISE) LEVEL (Leq). The level of a steady noise which would have the same energy the fluctuating noise level integrated over the time of period of interest.
maximum flow rate of not more than 0.20 gallons per minute/20 [rim space (inches) at 60 psi]. Note: Where complying faucets are unavailable, aerators or other means may be used to achieve		5.408.1.2 Waste Management Company. Utilize a waste management company that can provide verifiable documentation that the percentage of construction and demolition waste material diverted from the landfill complies with this section.		<ol> <li>General project information.</li> <li>Commissioning goals.</li> <li>Systems to be commissioned. Plans to test systems and components shall include:</li> </ol>		EXPRESSWAY. An arterial highway for through traffic which may have partial control of access, but which may on the divided or have grade separations at intersections.
5.303.3.4.6 Pre-rinse spray value		<b>Note:</b> The owner or contractor shall make the determination if the construction and demolition waste material will be diverted by a waste management company.		<ul><li>a. An explanation of the original design intent.</li><li>b. Equipment and systems to be tested, including the extent of tests.</li><li>c. Functions to be tested.</li></ul>		FREEWAY. A divided arterial highway with full control of access and with grade separations at intersections. GLOBAL WARMING POTENTIAL (GWP). The radiative forcing impact of one mass-based unit of a given green
Efficiency Regulations), Section 1605.1 (h)(4) Table H-2, Section 1605.3 (h)(4)(A), and Section 1607 (d)(7), and shall be equipped with an integral automatic shutoff.		Exceptions to Sections 5.408.1.1 and 5.408.1.2: 1. Excevated soil and land-clearing debris. 2. Alternate waste reduction methods developed by working with local agencies if diversion or recycle		<ul> <li>e. Measurable criteria for acceptable performance.</li> <li>4. Commissioning team information.</li> <li>5. Commissioning process activities, schedules and responsibilities. Plans for the completion of</li> </ul>		gas relative to an equivalent unit of carbon dioxide over a given period of time. Carbon dioxide is the reference compound with a GWP of one. <b>GLOBAL WARMING POTENTIAL VALUE (GWP VALUE).</b> A 100-year GWP value published by the
FOR REFERENCE ONLY: The following table and code section have been reprinted from the California Code of Regulations, Title 20 (Appliance Efficiency Regulations), Section 1605.1 (h)(4) and Section 1605.3 (h)(4)(A).		<ol> <li>Alternate waste reduction methods developed by working with local agencies in diversion of recycle facilities capable of compliance with this item do not exist.</li> <li>Demolition waste meeting local ordinance or calculated in consideration of local recycling facilities and markets.</li> </ol>		commissioning shall be included. 5.410.2.4 Functional performance testing. [N] Functional performance tests shall demonstrate the correct installation and operation of each component, system and system-to-system interface in accordance with the		Intergovernmental Panel on Climate Change (IPCC) in either its Second Assessment Report (SAR) (IPCC, 1995) its Fourth Assessment A-3 Report (AR4) (IPCC, 2007). The SAR GWP values are found in column "SAR (100-yr Table 2.14.; the AR4 GWP values are found in column "100 yr" of Table 2.14.
TABLE H-2 STANDARDS FOR COMMERCIAL PRE-RINSE SPRAY		<b>5.408.1.3 Waste stream reduction alternative.</b> The combined weight of new construction disposal that does not exceed two pounds per square foot of building area may be deemed to meet the 65% minimum requirement as approved by the enforcing agency.		approved plans and specifications. Functional performance testing reports shall contain information addressing each of the building components tested, the testing methods utilized, and include any readings and adjustments made.		<b>HIGH-GWP REFRIGERANT.</b> A compound used as a heat transfer fluid or gas that is: (a) a chlorofluorocarbon, a hdrochlorofluorocarbon, a hydrofluorocarbon, a perfluorocarbon, or any compound or blend of compounds, with a GWP value equal to or greater than 150, or (B) any ozone depleting substance as defined in Title 40 of the Code Federal Regulations, Part 82, sec.82.3 (as amended March 10, 2009).
VALUES MANUFACTURED ON OR AFTER JANUARY 28, 2019         PRODUCT CLASS         [spray force in ounce force (ozf)]    MAXIMUM FLOW RATE (gpm)		compliance with Sections 5.408.1.1, through 5.408.1.3. The waste management plan shall be updated as necessary and shall be accessible during construction for examination by the enforcing agency.		including Occupational Safety and Health Act (OSHA) requirements in <i>California Code of Regulations</i> (CCR), Title 8, Section 5142, and other related regulations.		<ul> <li>LONG RADIUS ELBOW. Pipe fitting installed between two lengths of pipe or tubing to allow a change of direction with a radius 1.5 times the pipe diameter.</li> <li>LOW-GWP REFRIGERANT. A compound used as a heat transfer fluid or gas that: (A) has a GWP value less that</li> </ul>
Product Class 1 (≤ 5.0 ozf)         1.00           Product Class 2 (> 5.0 ozf and ≤ 8.0 ozf)         1.20           Product Class 3 (> 8.0 ozf)         1.20		<ol> <li>Sample forms found in "A Guide to the California Green Building Standards Code (Nonresidential)" located www.dgs.ca.gov/BSC/Resources/Page-Content/Building-Standards-Commission-</li> </ol>		<ul> <li>completed within the systems manual and delivered to the building owner or representative. The systems manual shall include the following:</li> <li>1. Site information, including facility description, history and current requirements.</li> </ul>		<ul> <li>150, and (B) is not an ozone depleting substance as defined in Title 40 of the Code of Federal Regulations, Part sec.82.3 (as amended March 10, 2009).</li> <li>MERV. Filter minimum efficiency reporting value, based on ASHRAE 52.2–1999.</li> </ul>
Company and a second se Second second secon second second sec		<ul> <li>management plan.</li> <li>2. Mixed construction and demolition debris processors can be located at the California Department of Resources Recycling and Recovery (CalRecycle).</li> </ul>		<ol> <li>Basic operations and maintenance, including general site operating procedures, basic troubleshooting, recommended maintenance requirements, site events log.</li> </ol>		MAXIMUM INCREMENTAL REACTIVITY (MIR). The maximum change in weight of ozone formed by adding a compound to the "Base REactive Organic Gas (ROG) Mixture" per weight of compound added, expressed to
<ul> <li>5.303.4.1 Food Waste Disposers. Disposers shall either modulate the use of water to no more than 1 gpm when the disposer is not in use (not actively grinding food waste/no-load) or shall automatically shut off after no more than 10 minutes of inactivity. Disposers shall use no more than 8 gpm of water.</li> <li>Note: This code section does not affect local jurisdiction authority to prohibit or require disposer installation.</li> </ul>		<b>5.408.2 UNIVERSAL WASTE. [A]</b> Additions and alterations to a building or tenant space that meet the scoping provisions in Section 301.3 for nonresidential additions and alterations, shall require verification that Universal Waste items such as fluorescent lamps and ballast and mercury containing thermostats as well as other California prohibited Universal Waste materials are disposed of properly and are diverted from landfills. A list of prohibited Universal Waste		<ol> <li>5. Site equipment inventory and maintenance notes.</li> <li>6. A copy of verifications required by the enforcing agency or this code.</li> <li>7. Other resources and documentation, if applicable.</li> </ol>		hundreths of a gram (g O <sup>3</sup> /g ROC). <b>PRODUCT-WEIGHTED MIR (PWMIR).</b> The sum of all weighted-MIR for all ingredients in a product subject to this article. The PWMIR is the total product reactivity expressed to hundredths of a gram of ozone formed per gram of product (excluding container and packaging).
Building Standards Commission as specified in Section 103, the provisions of Section 5.303.3 and 5.303.4 shall apply		Note: Refer to the Universal Waste Rule link at: http://www.dtsc.ca.gov/universalwaste/		staff for each equipment type and/or system shall be developed and documented in the commissioning report and shall include the following:		<b>PSIG.</b> Pounds per square inch, guage. <b>REACTIVE ORGANIC COMPOUND (ROC).</b> Any compound that has the potential, once emitted, to contribute to
5.303.6 STANDARDS FOR PLUMBING FIXTURES AND FITTINGS. Plumbing fixtures and fittings shall be installed in accordance with the California Plumbing Code, and shall meet the applicable standards referenced in Table 1701.1		5.408.3 EXCAVATED SOIL AND LAND CLEARING DEBRIS. 100 percent of trees, stumps, rocks and associated vegetation and soils resulting primarily from land clearing shall be reused or recycled. For a phased project, such material may be stockpiled on site until the storage site is developed.		equipment it interfaces). 2. Review and demonstration of servicing/preventive maintenance.		ozone formation in the troposphere. SCHRADER ACCESS VALVES. Access fittings with a valve core installed.
SECTION 5.304 OUTDOOR WATER USE		Exception: Reuse, either on or off-site, of vegetation or soil contaminated by disease or pest infestation. Notes:		4. Review of the record drawings on the system/equipment.		SHORT RADIUS ELBOW. Pipe fitting installed between two lengths of pipe or tubing to allow a change of direction with a radius 1.0 times the pipe diameter.
with a local water efficient landscape ordinance or the current California Department of Water Resources' Model Water		<ol> <li>If contamination by disease or pest infestation is suspected, contact the County Agricultural Commissioner and follow its direction for recycling or disposal of the material.</li> <li>For a map of know pest and/or disease guarantine zones, consult with the California Department of</li> </ol>		design and construction phases of the building project shall be completed and provided to the owner or representative.		SUPERMARKET. For the purposes of Section 5.508.2, a supermarket is any retail food facility with 8,000 square or more conditioned area, and that utilizes either refrigerated display cases, or walk-in coolers or freezers connect to remote compressor units or condensing units.
<ul> <li>Notes:</li> <li>1. The Model Water Efficient Landscape Ordinance (MWELO) is located in the California Code of Regulations, Title 23, Chapter 2.7, Division 2.</li> <li>2. MWELO and supporting documents, including a water budget calculator, are available at: https://www.water.ca.gov/.</li> </ul>		Food and Agriculture. (www.cdfa.ca.gov)		5.410.4 TESTING AND ADJUSTING. New buildings less than 10,000 square feet. Testing and adjusting of systems shall be required for new buildings less than 10,000 square feet or new systems to serve an addition or alteration subject to Section 303.1.		<ul> <li>VOC. A volatile organic compound broadly defined as a chemical compound based on carbon chains or rings wit vapor pressures greater than 0.1 millimeters of mercury at room temperature. These compounds typically contain hydrogen and may contain oxygen, nitrogen and other elements. See CCR Title 17, Section 94508(a)</li> <li>Note: Where specific regulations are cited from different agencies such as SCAQMD, ARB, etc., the VOC definit</li> </ul>
landscape projects as described in Sections 5.304.6.1 and 5.304.6.2 shall comply with the California Department of		SECTION 5.410 BUILDING MAINTENANCE AND OPERATIONS		<b>Note:</b> For energy-related systems under the scope (Section 100) of the California Energy Code, including heating, ventilation, air conditioning (HVAC) systems and controls, indoor lighting system and controls, as well		included in that specific regulation is the one that prevails for the specific measure in question.  SECTION 5.503 FIREPLACES 5.503.1 FIREPLACES. Install only a direct-vent sealed-combustion gas or sealed wood-burning fireplace, or a s
2.7, Division 2, Title 23, <i>California Code of Regulations</i> , except that the evapotranspiration adjustment factor (ETAF) shall be 0.65 with an additional water allowance for special landscape areas (SLA) of 0.35.		5.410.1 RECYCLING BY OCCUPANTS. Provide readily accessible areas that serve the entire building and are identified for the depositing, storage and collection of non-hazardous materials for recycling, including (at a minimum) paper, corrugated cardboard, glass, plastics, organic waste, and metals or meet a lawfully enacted local recycling ordinance, if more restrictive.		as water heating systems and controls, refer to California Energy Code Section 120.8 for commissioning requirements and Sections 120.5, 120.6, 130.4, and 140.9(b)3 for additional testing requirements of specific systems.		woodstove or pellet stove, and refer to residential requirements in the California Energy Code, Title 24, Part 6, Subchapter 7, Section 150. Woodstoves, pellet stoves and fireplaces shall comply with applicable local ordinance
<ul> <li>Exception: Any project with an aggregate landscape area of 2,500 square feet or less may comply with the prescriptive measures contained in Appendix D of the MWELO.</li> <li>5.304.6.1 Newly constructed landscapes. New construction projects with an aggregate landscape</li> </ul>		<b>Exception</b> : Rural jurisdictions that meet and apply for the exemption in Public Resources Code 42649.82 (a)(2)(A) et seq. shall also be exempt from the organic waste portion of this section.		<b>5.410.4.2 Systems.</b> Develop a written plan of procedures for testing and adjusting systems. Systems to be included for testing and adjusting shall include at a minimum, as applicable to the project:		5.503.1.1 Woodstoves. Woodstoves and pellet stoves shall comply with U.S. EPA New Source Performa Standards (NSPS) emission limits as applicable, and shall have a permanent label indicating they are cert to meet the emission limits.
area equal to or greater than 500 square feet. 5.304.6.2 Rehabilitated landscapes. Rehabilitated landscape projects with an aggregate		<b>5.410.1.1 Additions.</b> All additions conducted within a 12-month period under single or multiple permits, resulting in an increase of 30% or more in floor area, shall provide recycling areas on site.		<ol> <li>Renewable energy systems.</li> <li>Landscape irrigation systems.</li> <li>Water reuse systems.</li> </ol>		SECTION 5.504 POLLUTANT CONTROL 5.504.1 TEMPORARY VENTILATION. The permanent HVAC system shall only be used during construction if necessary to condition the building or areas of addition or alteration within the required temperature range for
		<ul> <li>Exception: Additions within a tenant space resulting in less than a 30% increase in the tenant space floor area.</li> <li>5.410.1.2 Sample ordinance. Space allocation for recycling areas shall comply with Chapter 18, Part 3,</li> </ul>		<b>5.410.4.3 Procedures.</b> Perform testing and adjusting procedures in accordance with manufacturer's specifications and applicable standards on each system.		material and equipment installation. If the HVAC system is used during construction, use return air filters with a Minimum Efficiency Reporting Value (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, or, if the building is
DIVISION 5.4 MATERIAL CONSERVATION AND RESOURCE EFFICIENCY		Division 30 of the Public Resources Code. Chapter 18 is known as the California Solid Waste Reuse and		5.410.4.3.1 HVAC balancing. In addition to testing and adjusting, before a new space-conditioning		occupied during alteration, at the conclusion of construction.
	<section-header><section-header><section-header><section-header><section-header><section-header><text><list-item><list-item><list-item><list-item><list-item><list-item><list-item><list-item><list-item><list-item><list-item><list-item><list-item><list-item><list-item><list-item><list-item><list-item><list-item><list-item><list-item><list-item><list-item><list-item><list-item><list-item><list-item><list-item><list-item><list-item><list-item><list-item><list-item><list-item></list-item></list-item></list-item></list-item></list-item></list-item></list-item></list-item></list-item></list-item></list-item></list-item></list-item></list-item></list-item></list-item></list-item></list-item></list-item></list-item></list-item></list-item></list-item></list-item></list-item></list-item></list-item></list-item></list-item></list-item></list-item></list-item></list-item></list-item></text></section-header></section-header></section-header></section-header></section-header></section-header>	Section 6.303         Number Witter USE           Section 6.303         Market Section 6.303         Market Section 6.303           Section 6.303         Market Section 6.303         Market Section 6.303         Market Section 6.303           Section 6.303         Market Section 6.303         Market Section 6.303         Market Section 6.303           Section 6.303         Market Section 6.303         Market Section 6.303         Market Section 6.303           Section 6.303         Market Section 6.303         Market Section 6.303         Market Section 6.303           Section 6.303         Market Section 6.303         Market Section 6.303         Market Section 6.303         Market Section 6.303           Section 6.303         Market Sect	PECTION LADIA MODEL WATTER LIPE PECTION LADIA MODEL WATTER LI			

### A systematic quality assurance process that spans the entire design and construction documenting that building systems and components are planned, designed, installed, d to meet the owner's project requirements.

### TRUCTION WASTE REDUCTION, DISPOSAL AND

### 5.408.1.1 and 5.408.1.2:

IPANTS. Provide readily accessible areas that serve the entire building and are
age and collection of non-hazardous materials for recycling, including (at a minimum)
ass, plastics, organic waste, and metals or meet a lawfully enacted local recycling

### ommissioning requirements shall include:

- Owner's or Owner representative's project requirements Basis of design.
- . Commissioning measures shown in the construction documents. Commissioning plan.
- . Functional performance testing . Documentation and training.

### . Unconditioned warehouses of any size. 2. Areas less than 10,000 square feet used for offices or other conditioned accessory spaces within

### Informational Notes

- 1. IAS AC 476 is an accreditation criteria for organizations providing training and/or certification of commissioning personnel. AC 476 is available to the Authority Having Jurisdiction as a reference for qualifications of commissioning personnel. AC 476 des not certify individuals to conduct functional performance tests or to adjust and balance systems.
- 2. Functional performance testing for heating, ventilation, air conditioning systems and lighting controls must be performed in compliance with the California Energy Code.

- Environmental and sustainability goals. Building sustainable goals.
- Indoor environmental quality requirements. 4. Project program, including facility functions and hours of operation, and need for after hours
- 5. Equipment and systems expectations.
- 6. Building occupant and operation and maintenance (O&M) personnel expectations.

### Renewable energy systems. 2. Landscape irrigation systems. 3. Water reuse system.

- . General project information. Commissioning goals.
- Systems to be commissioned. Plans to test systems and components shall include:
- a. An explanation of the original design intent.b. Equipment and systems to be tested, including the extent of tests. c. Functions to be tested.
- d. Conditions under which the test shall be performed. e. Measurable criteria for acce
- Commissioning team information
- 5. Commissioning process activities, schedules and responsibilities. Plans for the completion of commissioning shall be included.

- 5.410.2.5.1 Systems manual. [N] Documentation of the operational aspects of the building shall be
- completed within the systems manual and delivered to the building owner or representative. The systems manual shall include the following:
- 1. Site information, including facility description, history and current requirements. 2. Site contact information.
- 3. Basic operations and maintenance, including general site operating procedures, basic troubleshooting, recommended maintenance requirements, site events log.
- 4. Major systems.
- 5. Site equipment inventory and maintenance notes. 6. A copy of verifications required by the enforcing agency or this code.
- 7. Other resources and documentation, if applicable.

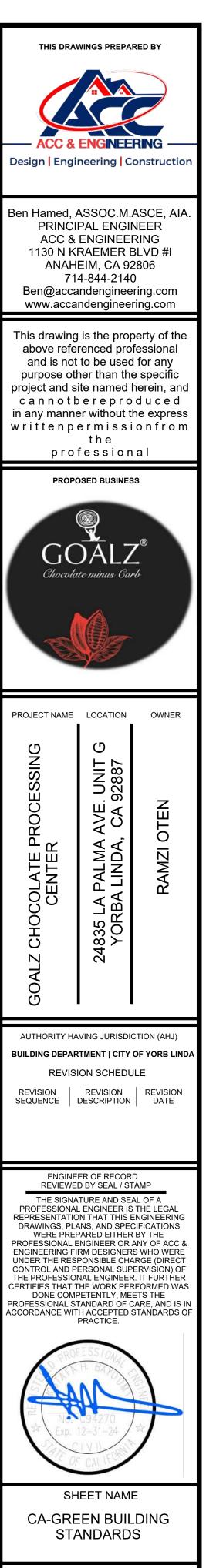
### 5.410.2.5.2 Systems operations training. [N] A program for training of the appropriate maintenance staff for each equipment type and/or system shall be developed and documented in the commissioning

- report and shall include the following: 1. System/equipment overview (what it is, what it does and with what other systems and/or equipment it interfaces).
- 2. Review and demonstration of servicing/preventive maintenance. 3. Review of the information in the Systems Manual.
- 4. Review of the record drawings on the system/equipment.

### 5.410.2.6 Commissioning report. [N] A report of commissioning process activities undertaken through the design and construction phases of the building project shall be completed and provided to the owner or representative.

NOT APPLICABLE RESPONSIBLE PARTY (Ie: ARCHITECT, ENGINEED OWNER, CONTRACTOR, INSPECTOR ETC.)

## PSIG. Pounds per square inch, guage.

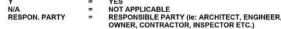


SHEET NUMBER GR-002

	<ul> <li>5.504.4.6.</li> <li>5.504.4.1 Adhesives, sealants and caulks. Adhesives, set the requirements of the following standards: <ol> <li>Adhesives, adhesive bonding primers, adhesive princomply with local or regional air pollution control or air of applicable, or SCAQMD Rule 1168 VOC limits, as show products also shall comply with the Rule 1168 prohibitid (chloroform, ethylene dichloride, methylene chloride, per aerosol products as specified in subsection 2, below.</li> <li>Aerosol adhesives, and smaller unit sizes of adhesited in the section of the se</li></ol></li></ul>	ealants, and caulks used on the project shall meet ners, sealants, sealant primers and caulks shall quality management district rules where wn in Tables 5.504.4.1 and 5.504.4.2. Such	GRAMS OF VOC PE
The resolution of a file factory direction. The resolution of a file factory direction of a leastly impression of a file of a least	<ul> <li>the requirements of the following standards:</li> <li>Adhesives, adhesive bonding primers, adhesive princomply with local or regional air pollution control or air applicable, or SCAQMD Rule 1168 VOC limits, as show products also shall comply with the Rule 1168 prohibiting (chloroform, ethylene dichloride, methylene chloride, per aerosol products as specified in subsection 2, below.</li> <li>Aerosol adhesives, and smaller unit sizes of adhesited the subsection of the</li></ul>	ners, sealants, sealant primers and caulks shall quality management district rules where vn in Tables 5,504.4.1 and 5,504.4.2. Such	
cmmpd with lise or regress are required and many maximum of other may have a many maximum of the maximum of th	comply with local or regional air pollution control or air of applicable, or SCAQMD Rule 1168 VOC limits, as show products also shall comply with the Rule 1168 prohibitin (chloroform, ethylene dichloride, methylene chloride, per aerosol products as specified in subsection 2, below. 2. Aerosol adhesives, and smaller unit sizes of adhesi	uality management district rules where vn in Tables 5.504.4.1 and 5.504.4.2. Such	SPECIAL TY CO/
Consideration and Series and Seri	<ul><li>(chloroform, ethylene dichloride, methylene chloride, per aerosol products as specified in subsection 2, below.</li><li>2. Aerosol adhesives, and smaller unit sizes of adhesi</li></ul>	on on the use of certain toxic compounds	ALUMINUM ROC
1. Argon particular, und matter with the or difference and second provided in the comparison of the difference of the differe	2. Aerosol adhesives, and smaller unit sizes of adhesi	erchloroethylene and trichloroethylene), except for	BASEMENT SPE
united opdied. Has package, which do not week more han one pack and ick for kontext of marking package is an extension status.         Description of the basic package is an extension of California California (California (Californi)		was and sealant or caulking compounds (in	BITUMINOUS RC
preshteres on use of craftin basic emports, of California Code A Regulations, Tile 17, commission         COMPLETE Col           TABLE 5.504.1.1 - ADHESIVE VOC LIMIT.         Distribution           Addrefter TURA APPLICATIONS         CURRENT VOC LIMIT           Incode Califier To ADHESIVES         100           OUTDOOR CARPET ADHESIVES         100           OUTDOOR CARPET ADHESIVES         100           NUBBER INCOR ADHESIVES         100           CONST DIANT         00           SUBJECT ADHESIVES         00           CONST DIANT         00           SUBJECT ADHESIVES         00           CONST DIANT         00           SUBJECT ADHESIVES         00           CONST ADHESIVES         00           STRUCTURAL GLAZING ADHESIVES         00           CONST ADHESIVES         00           ADHESIVE ADHESIVES         00           CONST ADHESIVES         00           ADHESIVE ADHESIVES         00           CONST ADHESIVES         00           ADHESIVE ADHESIVE		ore than one pound and do not consist of more	BOND BREAKER
TABLE 5.94.4.1 - ADHESIVE VOC LIMIT.           Level Wahe wait Land Essenge Chargen Calama         Diff Prog Colama           ARCHTECTURAL APPLICATIONS         CURRENT VOC LIMIT           CARPET Prog ADMESIVES         00           OUTDOOR CARPET ADMESIVES         00           CARPET Prog ADMESIVES         00           CONDE LOOR RADERSVES         00           SERECULTY PROJECTIONS         100           Prove WELDING         500           SERECULTY PROJECTIONS         100           Prove WELDING         500           SERECULTY PROJECTIONS         100           PASITIC CENTRY         100         100           PASITIC CENTRY         100         100           PASITIC CONSTRUCTION ADIESINGE         100         100	prohibitions on use of certain toxic compounds, of Calif		CONCRETE CU
Lask Water and Lask Exempt Compounds in Claim         DRV FOG CAN           ARCHTECTURAL APPLICATIONS         CURRENT VOC LIMIT           NECODIC CANTER TARBENYS         60           CARPET PAD ADHESIVES         60           WOOD FLOORING ACHESIVES         100           WOOD FLOORING ACHESIVES         100           WOOD FLOORING ACHESIVES         00           CORNALLY ADHESIVES         00           WOOD FLOORING ACHESIVES         00           VETA ASPHALT TLE ADHESIVES         00           CVEY AS REPART THE ADHESIVES         00           VETA ASPHALT TLE ADHESIVES         00           VETA ASPHALT TLE ADHESIVES         00           DRIVINUL & PANEL ADHESIVES         00           MALTIFURINGSC CONSTRUCTION ADHESIVES         70           STRUCTURAL, MORT SHEEVENS         00           MALTIFURINGSC CONSTRUCTION ADHESIVES         70           MALTIFURINGSC CONSTRUCTION ADHESIVES         00           MALTIFURINGSC CONSTRUCTION ADHESIVES         00           MALTIFURINGSC CONSTRUCTION ADHESIVE         200           STRUCTURAL, MORT SHEEVEN         200           METAL TO METAL         30           PLASTIC CONSTRUCTION ADHESIVE         200           STRUCTURAL, MORT WED ADHESIVE         200	TABLE 5.504.4.1 - ADHESIVE VOC LIMIT	8	CONCRETE/MA
ARCHTERURAL APPLICATIONS         CURRENT VOC.LIMIT           NDDOR CARPET ADMESSIVES         50           CARPET FIAN ADMESSIVES         50           CARPET FIAN ADMESSIVES         100           CODOR CORRECT ADMESSIVES         100           CODOR CORRECT ADMESSIVES         100           SUBPLOOR ADMESSIVES         00           COMPOSITIONAL ADMESSIVES         00           CORNECT LE ADMESSIVES         00           DORIVALL & ADMESSIVES         00           DORIVAL & ARMEL ADMESSIVES         00           MARCHTERAL CARENALSSIVES         00           MARCHTERAL CARENALSSIVES         00           STRUCTURAL CLAZING ADMESSIVES         00           STRUCTURAL CLAZING ADMESSIVE         00           STRUCTURAL CLAZING ADMESSIVES         00           STRUCTURAL CLAZING ADMESSIVE         00           STRUCTURAL CLAZING ADMESSIVE         00           STRUCTURAL CLAZING ADMESSIVE         200           STRUCTURAL CLAZING ADME	Less Water and Less Exempt Compounds in Grams per Li	er	
CARPET PAD ADMESIVES         50           CUTDOOR CARPET ADMESIVES         100           CUTDOOR CARPET ADMESIVES         100           RUBBER LOOR ADMESIVES         100           RUBBER LOOR ADMESIVES         60           CORD FLOOR ADMESIVES         60           CORT ADMESIVES         60           CORT ADMESIVES         60           COVE ADMESIVES         60           COVE ADMESIVES         60           COVE ADMESIVES         60           MULTURUPORS CONSTRUCTION ADMESIVES         70           STRUCTURAL GLAZING ADMESIVES         200           OPTICA ADMESIVES         70           STRUCTURAL GLAZING ADMESIVES         200           OPTICE ADMESIVES         70           STRUCTURAL GLAZING ADMESIVES         200           STRUCTURAL CONDONS         100           PLOSTIC COMERT         500           CONTACT ADMESIVE         200           STRUCTURAL COND MEMBER ADMESIVE         200           STRUCTURAL WOOD MEMBER ADMESIVE	ARCHITECTURAL APPLICATIONS	CURRENT VOC LIMIT	FAUX FINISHING
DUITOORICARE ADRESIVES     150       DUITOORICARESIVES     150       RUBBER TOOR ADRESIVES     00       SUBFLOOR ADRESIVES     00       DUITOORICARESIVES     00       SUBFLOOR ADRESIVES     00       DERMONT TLE ADRESIVES     00       DERMONT TLE ADRESIVES     00       DERMONT TLE ADRESIVES     00       DERMONT TLE ADRESIVES     00       DERVIAL THE ADRESIVES     00       DERVIAL THE ADRESIVES     00       STRUCTURAL CARENCYS     00       STRUCTURAL CARENCYS <td< td=""><td>INDOOR CARPET ADHESIVES</td><td></td><td>FIRE RESISTIVE</td></td<>	INDOOR CARPET ADHESIVES		FIRE RESISTIVE
WOOD FLOORING ADHESIVES         100           RUBBER FLOOR ADHESIVES         00           SUBTION ADHESIVES         00           CERAMIC TILE ADHESIVES         00           VOTA ADHESIVES         00           CERAMIC TILE ADHESIVES         00           DOYE MAS ADHESIVES         00           DOYE MAS ADHESIVES         00           MILTPURPSE CONSTRUCTION ADHESIVES         00           MILTPURPSE CONSTRUCTION ADHESIVES         200           OTHER ADHESIVES INT SPECIFICALLY LISTED         50           SECONTACT ADHESIVE         200           CONTACT ADHESIVE         200           CONTACT ADHESIVE         200           CONTACT ADHESIVE         200           STRUCTURAL (MOOD MESINE PRIMER FOR PLASTIC         550           STRUCTURAL (MOOD MESINE PRIMER FOR PLASTIC         550           OTHE AT ADHESIVE IS USED TO BOND DISSIMLAR SUBSTRATES TOGETHER, THE ADHESIVE         570NE CONSE           SUBSTRICT MARY TOWER ADRESIDESCONTINUT THE ADHESIVE         500           VOOD         <			FLOOR COATIN
RUBBER FLOOR ADMESIVES       60         SUBFLOOR ADMESIVES       50         CERAMUT THE ADMESIVES       63         UTT & ASPMALL FAMEL ADMESIVES       50         DOWNALL & PAMEL ADMESIVES       50         COVE BASE ADMESIVES       50         MILTEDURGS CONSTRUCTION ADMESIVES       70         STRUCTURAL CARANA ADMESIVES       70         STRUCTURAL VOOP MEMBRANE ADMESIVE       70         ADMESINE PRIMER FOR PLASTIC       550         CONTACT ADMESIVE       700         STRUCTURAL WOOD MEMBER ADMESIVE       700         STAIN			
CREAMIC TLE ADRESVES         65           VCT & ASPIRLIT TLE ADRESVES         50           DRYWALL & APREL ADRESVES         50           COVE BASE ADRESVES         50           MULTPLAPPOE CONSTRUCTION ADRESVES         50           STRUCTURAL LOLZAR ADRESIVES         70           STRUCTURAL LOLZAR ADRESIVES         70           STRUCTURAL LOLZAR ADRESIVES         70           STRUCTURAL LOLZAR ADRESIVES NOT SPECIFICALLY LISTED         50           SPECIAL TY APPLICATIONS         PRETERATIVE           PLOY WELDING         510           COVE WELDING         510           COVIC WELDING         600           SPECIAL TY APPLICATIONS         RECVICUED VELONG           CONTACT ADRESIVE         220           STRUCTURAL WOOD MEMBER ADRESIVE         140           TOP A TINIA ADRESIVE INCLATIONS         TOP           PLASTIC FORMS         00           SPECIAL PURPOSE CONTACT ADRESIVE         220           STRUCTURAL WOOD MEMBER ADRESIVE         140           TOP ATTINIA ADRESIVE IS USED TO BOND DISSIMLAR SUBSTRATES TOGETHER, THE ADRESIVE         WATERPROOF           WOOD PRESE         ZINF REVEW           STAINS         STOWE CONST           STAL BE ALLOYED         SOUTH COAST ARE OUALLY MANAGEMENT <td>RUBBER FLOOR ADHESIVES</td> <td>60</td> <td>HIGH-TEMPERA</td>	RUBBER FLOOR ADHESIVES	60	HIGH-TEMPERA
VCT & ASPHALT TLE ADHESIVES         50           DRYWALL & PAREL ADHESIVES         50           COVE DAGE ADRESIVES         50           MULTPURPOSE CONSTRUCTION ADHESIVES         70           STRUCTURAL CLAZING ADHESIVES         70           STRUCTURAL COMMENDAL PHOLOGONG         70           STRUCTURAL COMMENDAL         70           CONTACT ADHESIVE         70           STRUCTURAL COMMENDAL         700           CONTACT ADHESIVE         80           SPECIAL PURPOSE CONTACT ADHESIVE         700           STOLUTURAL WOOD MEMBER ADHESIVE         700           STOLUTURAL WOOD MEMBER ADHESIVE         700           STOLUTURAL WOOD MEMBER ADHESIVE         700           NOOD MEMBER ADHESIVE         700           STORE CONST         700           STOLUTURAL WOOD MEMBER ADHESIVE         700           STOLUTURAL WOOD MEMBER ADHESI	SUBFLOOR ADHESIVES	1 (m + m)	INDUSTRIAL MA
DRIVENUL & ANALL ADMESIVES     60       DRIVENUL & ANALL ADMESIVES     60       MUDURAL & ANALL ADMESIVES     60       MULTURROPOR CONSTRUCTION ADMESIVES     70       STRUCTURAL GLAZING ADMESIVES     100       SIRGLE-RLY ROOP MEMBRANE ADMESIVES     280       OTHER ADMESIVES ADMESIVES     280       OTHER ADMESIVES ADMESIVES     290       PVC WELDING     480       RASS WELDING     480       ABS WELDING     250       ADMESIVE PRIMER FOR PLASTIC     550       CONTACT ADMESIVE     200       STRUCTURAL WOOD MEMBER ADMESIVE     140       TOP & TEM ADMESIVE PRIMER FOR PLASTIC     550       CONTACT ADMESIVE     250       STRUCTURAL WOOD MEMBER ADMESIVE     140       TOP & TEM ADMESIVE     140       TOP & TEM ADMESIVE PRIMER FOR PLASTIC     30       PLASTIC FOAMS     50       STRUSTURAL (EXCEPT WOOD)     60       WOOD     30       PARCILL PURPOSE CONTACT ADMESIVE     250       STANS     00       TARAFIE MARK     30       PLASTIC FOAMS     60       TOP A TEM ADMESIVE NOADING METHOR READINES THORE THE VOC CONTENT SPECIFICA DITIONAL INFORMATION READRING THORS TO MEASURE THE VOC CONTENT SPECIFIC DITIONAL INFORMATION READRING COUNTRIMINACTIONS TO MEASURE THE VOC CONTENT SPECIFIC DITIONAL INFORMATION READRING COUNTRINAL		(1997) (K)	LOW SOLIDS C
COVE BASE ADJESTICE         60           MULTPURPOSE CONSTRUCTION ADJESTICES         70           STRUCTURAL LAZINA DATESTIVES         70           STRUCTURAL CLAICAN BATHESTIVES         70           STRUCTURAL CLAICAN BATHESTIVES         70           STRUCTURAL CLAICAN BATHESTIVES         70           STRUCTURAL CLAICAN DATESTIVES         70           STRUCTURAL CLAICAN BATHESTIVES         70           OTHER ADHESTIVES NOT SPECIFICALLY LISTED         50           PERCENT PERCENT CATOR         70           POY OWELDING         450           ADHESTIVE PERCENT CATOR         500           PLASTIC COMMINY WELDING         220           ADHESTIVE PERCENT ADHESTIVE         250           STRUCTURAL WOOD MEMBER ADHESTIVE         250           STAINS         STORE CONTACT ADHESTIVE           PLASTIC FORAL WOOD MEMBER ADHESTIVE         250           STAINS         STORE CONTACT ADHESTIVE           POROUS MATERIAL (EXCEPT WOOD)         50           WOOD ORAGER ADHESTIVE TO BOND DISSIMULAR SUBSTRATES TOGETHER. THE ADHESTIVE WOOD WOOD CONTENT SHALL BE ALLOWED.           I. FAN ADHESTIVE STORE CONTENT SHALL BE ALLOWED.         1. GRAMG O'VO 2.           VICHER MER ADELESTIVE CONTENT SHALL BE ALLOWED.         1. GRAMG O'VO 2.           NONTE FORA ADHESTIVE P	Table 18 Your Addition for the The The The The Addition of The Addition of The Addition of The		MAGNESITE CE
MULTPURPOSE CONSTRUCTION ADHESIVES     70       STRUCTURAL GLAZING ADHESIVES     100       STRUCTURAL GLAZING ADHESIVES     100       SINGLE-PLY ROPE MEMBRARA EDHESIVES     250       OTHER ADHESIVES NOT SPECIFICALLY LISTED     50       SPECIALTY APPLICATIONS     PRETERSATINE       PVC WELDING     510       CPVC WELDING     250       ADHESIVE PRIMER FOR PLASTIC     550       CONTACT ADHESIVE     00       SPECIAL PLASTIC COMMENT WELDING     250       CONTACT ADHESIVE     00       SPECIAL PLASTIC COMMENT WELDING     250       STRUCTURAL (XOOD MEMBER ADHESIVE     140       TOP A TIMI ADHESIVE     140       TOP A TIMI ADHESIVE     30       PLASTIC FORMAL     30       PLASTIC FORMAL     30       PLASTIC STORME SIVE     30       PLASTIC FORMAL     30       PLASTIC FORMAL     30       PLASTIC STORME SIVE SUBDITION ON DISSIMULAR SUBSTRATES TOGETHER, THE ADHESIVE     3TIME COMMENT       VOOD PADUE     30       PLASTIC FORMAL TORONALINE ORDIDISSIMULAR SUBSTRATES TOGETHER, THE ADHESIVE     2       STANE COLL     760       NOOD PREDERING SUBDITION TORONALINE ORDIDISSIMULAR SUBSTRATES TOGETHER, THE ADHESIVE     2       TABLE 5.504.4.2 - SEALANT VOC LIMIT     2       Less Varia ADLASTIC C		118667	
STRUCTURAL GLAZING ADHESIVES     100       SIRGLEPLY ROOF MEMBRANE ADHESIVES     250       OTHER ADHESIVES NOT SPECIFICALLY LISTED     30       PCOV WELDING     110       CPVC WELDING     440       ABS WELDING     250       ADHESIVE FRIMER FOR PLASTIC     550       CONTACT ADHESIVE     260       STRUCTURAL WADDURING     250       ADHESIVE PRIMER FOR PLASTIC     550       CONTACT ADHESIVE     260       STRUCTURAL WOOD MEMBER ADHESIVE     140       TOP A TIRM ADHESIVE     230       SUBSTRATE SPECIFIC APPLICATIONS     500       METAL TO METAL     30       PASTIC CEMPTONEL     500       WOOD     30       FIDERGLASS     80       1. IF AN ADHESIVE     500       WOOD     30       FIDERGLASS     80       1. IF AN ADHESIVE IS USED TO BOND DISIMILAR SUBSTRATES TOGETHER, THE ADHESIVE     1. GRMS OFVO       VITH THE HORGET YOC CONTENT SHALL BE ALLOWED.     1. GRMS OFVO       2. FOR ADDITIONAL INFORMATION RECARDING METHODS TO MEASURE THE YOC     1. GRMS OFVO       2. FOR ADDITIONAL INFORMATION RECARDING SCIENT WADAGEMENT     2. SEALANT S       TABLE 5.504.4.2 - SEALANT YOC LIMIT     2.       Less Water and Less Estempt Compounds in Gramm per Liter     2.       SEALANT S     CUR	MULTIPURPOSE CONSTRUCTION ADHESIVES	70	MULTICOLOR C
International and the second secon		120-2010	PRETREATMEN
SPECIALTY APPLICATIONS         Image: Control of the control of		999332	PRIMERS, SEAL
PVC WELDING         510           CPVC WELDING         490           ABS WELDING         325           PLASTIC CEMENT WELDING         226           ADHESINE PRIMER FOR PLASTIC         550           CONTACT ADHESINE         80           SPECIAL, PURPOSE CONTACT ADHESINE         140           TOP & TRIM ADHESINE         250           SUBSTRATE SPECIFIC APPLICATIONS         570           METAL TO METAL         30           PLASTIC FOAMS         50           PORCUS MATERIAL (EXCEPT WOOD)         50           WOOD         30           PBERGLASS         80           1. IF AN ADHESINE IS USED TO BOND DISSIMILAR SUBSTRATES TOGETHER, THE ADHESINE WITH THE HIGHEST VOC CONTENT SHALL BE ALLOWED.           2. OR ADDITIONAL INFORMATION REGARDING WETHOOS TO MEASURE THE VOC CONTENT SHALL BE ALLOWED.           2. IF AN ADHESINE IS USED TO BOND DISSIMILAR SUBSTRATES TOGETHER. THE ADHESINE WITH THE HIGHEST VOC CONTENT SHALL BE ALLOWED.           2. IF AN ADHESINE IS USED TO BOND DISSIMILAR SUBSTRATES TOGETHER VOC LIMIT           AGUITECTURAL         250           SINGLE-PLY BOCHED TO BOND DISSIMILAR SUBSTRATES TOGETHER VOC LIMIT           Less Water and Less Exempt Compounds in Grams par Lifer           SEALANTS         CURRENT VOC LIMIT           ACRUITECTURAL         250	a na manana a sa manana na manana na manana na manana ka na manana na manana manana a na manana ka manana na m		REACTIVE PENE
A B WELDING       325         PLASTIC CEMENT WELDING       325         ADHESIVE PRIMER FOR PLASTIC       550         CONTACT ADHESIVE       80         SPECIAL PURPOSE CONTACT ADHESIVE       250         STRUCTURAL WOOD MEMBER ADHESIVE       140         TOP & TIMI ADHESIVE       250         STRUCTURAL WOOD MEMBER ADHESIVE       140         TOP & TIMI ADHESIVE       250         SUBSTRATE SPECIFIC APPLICATIONS       STAINS         METAL TO METAL       30         PLASTIC FOMS       50         WOOD       50         WOOD CONT       30         FIERERGLASS       80         1. IF AN ADHESIVE IS USED TO BOND DISSIMILAR SUBSTRATES TOGETHER, THE ADHESIVE       1. GRAMS OF VO         VOOD CONTT SHALL BE ALLOWED.       2. IH SPECHENT         DISTRICT RULE 188. www.afb.ca.gov/DRDB/SC/CURHTML/R1168 PDF       1. GRAMS OF VO         TABLE 5.504.4.2 - SEALANT VOC LIMIT       5.504.4.3         Less Water and Less Exempt Compounds in Grams per Lifer       5.504.4         SINGLE-FLY ROOF MEMBRANE       700         NONMEMBRANE ROOF       300         SINGLE-FLY ROOF MEMBRANE       775         MODIFIED BITUMINOUS       500         SINGLE-FLY ROOF MEMBRANE       775	PVC WELDING	510	ROOF COATING
PLASTIC CEMENT WELDING       250         ADHESINGE PRIMER FOR PLASTIC       550         CONTACT ADHESINE       80         SPECIAL PUPPOSE CONTACT ADHESINE       250         STRUCTURAL WOOD MEMBER ADHESINE       140         TOP & TIMI ADHESINE       250         SUBSTRATE SPECIFIC APPLICATIONS       STONE CONSC         WETAL TO METAL       30         PLASTIC CEMENT WELDING       TUB & TILE RE         WOOD ADD       30         PLASTIC FORMS       WOOD CONT         WOOD ADD       30         TUB & STEINE SUBSED TO BOND DISSIMILAR SUBSTRATES TOGETHER, THE ADHESINE       WOOD COATIN         WOOD PROUS MATERIAL (EXCEPT WOOD)       50         WOOD PROUS MATERIAL (EXCEPT WOOD)       50         WOOD CONTENT SHALL BE ALLOWED.       1. IF AN ADHESINE IS USED TO BOND DISSIMILAR SUBSTRATES TOGETHER, THE ADHESINE         WTIT THE HIGHEST VOC CONTENT SHALL BE ALLOWED.       1. IF AN ADHESINE IS USED TO BOND DISSIMILAR SUBSTRATES TOGETHER THE VOC         CONTENT SPECIFIC DI THIT STANELS. SEE SOUTH COAST AR QUALTY MANAGEMENT       3. VALUES INTH         DISTRICT RULE 1188, www arb. as gov/DRDB/SC/CURHTMU/R1168.PDF       3. VALUES INTH         ARCHTECTURAL       250         NONEMMERARE ROOF       300         ROADWAY       250         SINGLE-PLY	CPVC WELDING	5 (1973) 5 (1973)	RUST PREVENT
ADJESINE PRIMER FOR PLASTIC       550         CONTACT ADHESINE       80         SPECIAL PURPOSE CONTACT ADHESINE       250         STRUCTURAL WOOD MEMBER ADHESINE       250         STANDE TORAL SPECIFIC APPLICATIONS       TRAFE CAMARY         PLASTIC FOAMS       0         PLASTIC FOAMS       0         WOOD       30         TURE SPECIFIC APPLICATIONS       WATERRROOF         WOOD COD       30         WOOD COD       30         WOOD COD       30         WOOD PRESS       80         1. IF AN ADHESIVE IS USED TO BOND DISSIMILAR SUBSTRATES TOGETHER, THE ADHESIVE         WITH THE HIGHEST VOC CONTENT SHALL BE ALLOWED.       0         DISTRICT RULE 1168, www.arb.ca.gov/DRDB/SC/CURHTMUR/1168 PDF       2         TABLE 5.504.4.2.5 SEALANT VOC LIMIT       4         Lass Water and Less Exempt Compounds in Grams par Lifer       5         SEALANT SAME RAME       450         OTHER       420         SEALANT PRIMERS       250         NONMERGINE DECK		0000840 D000000	SHELLACS:
CONTACT ADHESIVE     80       SPECIAL PURPOSE CONTACT ADHESIVE     250       STRUCTURAL PURPOSE CONTACT ADHESIVE     140       TOP & TRIM ADHESIVE     250       STRUCTURAL WOOD MEMBER ADHESIVE     250       STRUCTURAL WOOD MEMBER ADHESIVE     250       STRUCTURAL OPENCIATIONS     110       METAL TO METAL     30       PLASTIC FOAMS     50       WOOD     30       WOOD     30       WOOD POROUS MATERIAL (EXCEPT WOOD)     50       WOOD COATIN     50       WOOD COATIN     50       WOOD COATIN     50       WOOD POROUS MATERIAL (EXCEPT WOOD)     50       WOOD POROUS MATERIAL (EXCEPT WOOD)     50       UNOOP PRESSING     80       2.1. FAN ADHESIVE IS USED TO BOND DISIMILAR SUBSTRATES TOGETHER, THE ADHESIVE WITH THE HIGHEST VOC CONTENT SPECIFIED IN THIS TABLE, SEE SOUTH COAST AR OUALTY MANAGEMENT       DISTRICT RULE 1168, www.arb.ca.gov/ORDBISC/CURRITMUR1168.PDF     2. Intermediation of the test o			
SPECIAL PURPOSE CONTACT ADHESIVE     250       STRUCTURAL WOOD MEMBER ADHESIVE     140       TOP & TRIM ADHESIVE     250       SUBSTRATE SPECIFIC APPLICATIONS     STONE CONSC       METAL TO METAL     30       PLASTIC FOAMS     50       WOOD     30       PORCUS MATERIAL (EXCEPT WOOD)     50       WOOD     30       PORCUS MATERIAL (EXCEPT WOOD)     50       WOOD     30       PORCUS MATERIAL (EXCEPT WOOD)     50       WOOD COATIN     80       POROUS MATERIAL (EXCEPT WOOD)     50       WOOD COATINE     80       THE REGLASS     80       NOTH THE HIGHEST VOC CONTENT SHALL BE ALLOWED.     2. THE SPECIFIES IN THIS TABLE, SEE SOUTH COAST ANE QUALITY MANAGEMENT       DISTRICT RULE 1168, www.arb.ca.gov/DRDB/SC/CURHTML/R1168,PDF     3. VALUES IN TH       TABLE 5.504.4.2 - SEALANT VOC LIMIT     5.504.4.1       Less Water and Less Exempt Compounds in Grams per Liter     5.504.4.1       SEALANTS     CURRENT VOC LIMIT       ARCHITECTURAL     250       NOMMEMBRANE ROOF     300       SINGLE-PLY ROOF MEMBRANE     450       OTHER     420       SEALANT PRIMERS     775       MODIFIED BITUMINOUS     500       ARCHITECTURAL     760       NONDOROUS     250 <td></td> <td>80</td> <td></td>		80	
In the intervent of the in	SPECIAL PURPOSE CONTACT ADHESIVE		
International control       International control         SUBSTATE SPECIFIC APLICATIONS       International control         METAL TO METAL       30         PLASTIC FOAMS       50         WOOD       30         BIBERGLASS       80         1. IF AN ADHESIVE IS USED TO BOND DISSIMILAR SUBSTRATES TOGETHER, THE ADHESIVE WITH THE HIGHEST VOC CONTENT SHALL BE ALLOWED.       2. FOR ADDITIONAL INFORMATION REGARDING METHODS TO MEASURE THE VOC CONTENT SHECIFIED IN THIS TABLE, SEE SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT RULE 1168, www.arb.ca.gov/DRB/SC/CURHTML/R1168.PDF         TABLE 5.504.4.2 - SEALANT VOC LIMIT       5.504.4.2 - SEALANT VOC LIMIT         Less Water and Less Exempt Compounds in Grams per Lifer       5.504.4.2 - SEALANT VOC LIMIT         Less Water and Less Exempt Compounds in Grams per Lifer       5.504.4.4 Carp         SEALANTS       CURRENT VOC LIMIT         Less Water and Less Exempt Compounds in Grams per Lifer       5.504.4.4 Carp         SEALANT PRIMERS       760         NONMEMBANE ROOF       300         Single-PLY ROOF MEMBRANE       450         OTHER       420         SEALANT PRIMERS       500         ARCHITECTURAL       500         NONPOROUS       775         POROUS       775         NONPOROUS       760         POROUS       760			
METAL TO METAL       30         PLASTIC FOAMS       50         POROUS MATERIAL (EXCEPT WOOD)       60         WOOD       30         FIBERGLASS       80         1. IF AN ADHESIVE IS USED TO BOND DISSIMILAR SUBSTRATES TOGETHER, THE ADHESIVE       ZINC-RICH PRI         WOTH THE HIGHEST VOC CONTENT SHALL BE ALLOWED.       0         2. FOR ADDITIONAL INFORMATION REGARDING METHODS TO MEASURE THE VOC CONTENT SPECIFIED IN THIS TABLE, SEE SOUTH COAST AR QUALITY MANAGEMENT       3. VALUES IN THE TABLE 5.504.4.2 - SEALANT VOC LIMIT         Less Water and Less Exempt Compounds in Grams per Lifer       5.504.4.1       8.504.4.1         SEALANTS       CURRENT VOC LIMIT       1.         ARCHITECTURAL       250       760         NONMEMBRANE ROOF       300       See California I https://www.od/ SINGLE-PLY ROOF MEMBRANE       420         SEALANT PRIMERS       420       5.504.4.5 Com equiform       5.504.4.5 Com equiform         ARCHITECTURAL       250       5.504.4.5 Com equiform       5.504.4.5 Com equiform         NONDEVERSE       250       5.504.4.5 Com equiform       5.504.4.5 Com equiform         SEALANT PRIMERS       Contract field       5.504.4.5 Com equiform       5.504.4.5 Com equiform         MODIFIED BITUMINOUS       500       5.504.4.5 Com equiform       5.504.4.5 Com equiform       5.50		200	SWIMMING POO
POROUS MATERIAL (EXCEPT WOOD)       50         WOOD       30         FIBERGLASS       80         1. IF AN ADHESIVE IS USED TO BOND DISSIMILAR SUBSTRATES TOGETHER, THE ADHESIVE WITH THE HIGHEST VOC CONTENT SHALL BE ALLOWED.       1. GRAMS GF VOC CONTENT SHALL BE ALLOWED.         2. FOR ADDITIONAL INFORMATION REGARDING METHODS TO MEASURE THE VOC CONTENT SPECIFIED IN THIS TABLE, SEE SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT RULE 1168, www.arb.ca.gov/DRDB/SC/CURHTML/R1168,PDF       1. GRAMS GF VOC CONTENT SHALL BE ALLOWED.         TABLE 5.504.4.2 - SEALANT VOC LIMIT       1. Status Statu		30	TRAFFIC MARK
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FIBERCIASS       80         1. IF AN ADHESIVE IS USED TO BOND DISSIMILAR SUBSTRATES TOGETHER, THE ADHESIVE WITH THE HIGHEST VOC CONTENT SHALL BE ALLOWED.       2. FOR ADDITIONAL INFORMATION REGARDING METHODS TO MEASURE THE VOC CONTENT SPECIFIED THIS TABLE, SEE SOUTH COAST AR QUALITY MANAGEMENT DISTRICT RULE 1168, www.arb.ca.gov/DRDB/SC/CURHTML/R1168.PDF       1. GRAMS OF VO.       2. THE SPECIFIED THE TABLE.       3. VALUES IN THAT TABLE, SEES SOUTH COAST AR QUALITY MANAGEMENT DISTRICT RULE 1168, www.arb.ca.gov/DRDB/SC/CURHTML/R1168.PDF       3. VALUES IN THAT TABLE.       3. VALUES IN THAT ABLE.       3. VALUES IN THAT AB			WATERPROOF
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WITH THE HIGHEST VOC CONTENT SHALL BE ALLOWED.       1. GRAMS OF VOC         2. FOR ADDITIONAL INFORMATION REGARDING METHODS TO MEASURE THE VOC       2. THE SPECIFIED         CONTENT SPECIFIED IN THIS TABLE, SEE SOUTH COAST AR OLULITY MANAGEMENT       3. VALUES IN TH         DISTRICT RULE 1168, www.arb.ca.gov/DRDB/SC/CURHTML/R1168,PDF       3. VALUES IN TH         TABLE 5.504.4.2 - SEALANT VOC LIMIT       5.504.4.3         Less Water and Less Exempt Compounds in Grams per Liter       5.504.4.4         SEALANTS       CURRENT VOC LIMIT         ARCHITECTURAL       250         MARINE DECK       760         SINGLE-PLY ROOF MEMBRANE       450         SEALANT PRIMERS       5.504.4.4         ARCHITECTURAL       250         NONPOROUS       250         NONPOROUS       250         NONPOROUS       775         ARCHITECTURAL       5.504.4.5         MODIFIED BITUMINOUS       500         MARINE DECK       760         Contents       5.504.4.5         Contents       775         SEALANT PRIMERS       760         ARCHITECTURAL       760         NOPOROUS       750         NOTHER       750         NOTHER       750         NOTHER			ZINC-RICH PRIM
L. ONTEND DIANG INT ONLE IN THIS TABLE, SEE SOUTH COAST AR QUALITY MANAGEMENT       THE TABLE         DISTRICT RULE 1168, www.arb.ca.gov/DRDB/SC/CURHTML/R1168.PDF       3. VALUES IN THE AREL         TABLE 5.504.4.2 - SEALANT VOC LIMIT       5.504.4.2         Less Water and Less Exempt Compounds in Grams per Liter       5.504.4.2         SEALANTS       CURRENT VOC LIMIT         ARCHITECTURAL       250         MARINE DECK       760         NONMEMBRANE ROOF       300         SINGLE-PLY ROOF MEMBRANE       450         SEALANT PRIMERS       Sold         ARCHITECTURAL       250         NONPOROUS       250         SINGLE-PLY ROOF MEMBRANE       450         SOLANT PRIMERS       Gramme         ARCHITECTURAL       250         NONPOROUS       250         NONPOROUS       775         MODIFIED BITUMINOUS       500         MARINE DECK       760         OTHER       775         NOTE: FOR ADDITIONAL INFORMATION REGARDING METHODS TO MEASURE THE VOC       5.504.4.5 Com         OTHER       760         NOTE: FOR ADDITIONAL INFORMATION REGARDING METHODS TO MEASURE THE VOC       5.504.4.5 Com         NOTE: FOR ADDITIONAL INFORMATION REGARDING METHODS TO MEASURE THE VOC       5.504.4.5 Com			1. GRAMS OF VOC
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TABLE 5.504.4.2 - SEALANT VOC LIMIT       the enfort         Less Water and Less Exempt Compounds in Grams per Liter       2.         SEALANTS       CURRENT VOC LIMIT         ARCHITECTURAL       250         MARINE DECK       760         NONMEMBRANE ROOF       300         ROADWAY       250         SINGLE-PLY ROOF MEMBRANE       450         OTHER       420         SEALANT PRIMERS       Chamber         ARCHITECTURAL       500         NONPOROUS       250         POROUS       775         MODIFIED BITUMINOUS       500         MARINE DECK       760         ONTHER       750         NONPOROUS       500         MARINE DECK       760         ONTHER       750         NONPOROUS       500         MARINE DECK       760         OTHER       750			
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ARCITICE OF ORAL100MARINE DECK760NONMEMBRANE ROOF300ROADWAY250SINGLE-PLY ROOF MEMBRANE450OTHER420SEALANT PRIMERS	Less Water and Less Exempt Compounds in Grams per Li		5.504.4.4 Carpe All carpet installe
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ROADWAY       230         SINGLE-PLY ROOF MEMBRANE       450         OTHER       420         SEALANT PRIMERS       420         ARCHITECTURAL       101350).         NONPOROUS       250         POROUS       775         MODIFIED BITUMINOUS       500         MARINE DECK       760         OTHER       750         NOTE: FOR ADDITIONAL INFORMATION REGARDING METHODS TO MEASURE THE VOC CONTENT SPECIFIED IN THESE TABLES, SEE SOUTH COAST AIR QUALITY MANAGEMENT       Table 5.504.4.5	Less Water and Less Exempt Compounds in Grams per Lit SEALANTS ARCHITECTURAL	CURRENT VOC LIMIT 250	Sources Using E
OTHER       420       5.504.4.4         OTHER       420       Evaluatio         SEALANT PRIMERS       01350).       Evaluatio         ARCHITECTURAL       01350).       See Calif         NONPOROUS       250       See Calif         POROUS       775       S.504.4.4         MODIFIED BITUMINOUS       500       Status         MARINE DECK       760       5.504.4.4         OTHER       750       Status         NOTE: FOR ADDITIONAL INFORMATION REGARDING METHODS TO MEASURE THE VOC CONTENT SPECIFIED IN THESE TABLES, SEE SOUTH COAST AIR QUALITY MANAGEMENT       Table 5.504.4.5	Less Water and Less Exempt Compounds in Grams per Lit SEALANTS ARCHITECTURAL MARINE DECK	CURRENT VOC LIMIT 250 760	Sources Using E Specifications 07
SEALANT PRIMERS       Evaluatio         ARCHITECTURAL       01350).         NONPOROUS       250         POROUS       775         MODIFIED BITUMINOUS       500         MARINE DECK       760         OTHER       750         NOTE: FOR ADDITIONAL INFORMATION REGARDING METHODS TO MEASURE THE VOC CONTENT SPECIFIED IN THESE TABLES, SEE SOUTH COAST AIR QUALITY MANAGEMENT       See Calification	Less Water and Less Exempt Compounds in Grams per Lit SEALANTS ARCHITECTURAL MARINE DECK NONMEMBRANE ROOF ROADWAY	CURRENT VOC LIMIT 250 760 300 250	Sources Using E Specifications 0 See California D
ARCHITECTURAL       01350).         NONPOROUS       250         POROUS       775         MODIFIED BITUMINOUS       500         MARINE DECK       760         OTHER       750         NOTE: FOR ADDITIONAL INFORMATION REGARDING METHODS TO MEASURE THE VOC CONTENT SPECIFIED IN THESE TABLES, SEE SOUTH COAST AIR QUALITY MANAGEMENT       5.504.4.5	Less Water and Less Exempt Compounds in Grams per Lit SEALANTS ARCHITECTURAL MARINE DECK NONMEMBRANE ROOF ROADWAY SINGLE-PLY ROOF MEMBRANE	CURRENT VOC LIMIT           250           760           300           250           450	Sources Using E Specifications 0 <sup>-</sup> See California D https://www.cdpl 5.504.4.4.
Notified of order       http://www.notestandinguestandin	Less Water and Less Exempt Compounds in Grams per Lit SEALANTS ARCHITECTURAL MARINE DECK NONMEMBRANE ROOF ROADWAY SINGLE-PLY ROOF MEMBRANE OTHER	CURRENT VOC LIMIT           250           760           300           250           450	Sources Using E Specifications 0 <sup>-</sup> See California D https://www.cdpl 5.504.4.4. requireme Evaluation
MODIFIED BITUMINOUS       500         MARINE DECK       760         OTHER       750         NOTE: FOR ADDITIONAL INFORMATION REGARDING METHODS TO MEASURE THE VOC CONTENT SPECIFIED IN THESE TABLES, SEE SOUTH COAST AIR QUALITY MANAGEMENT       5.504.4.5	Less Water and Less Exempt Compounds in Grams per Lit SEALANTS ARCHITECTURAL MARINE DECK NONMEMBRANE ROOF ROADWAY SINGLE-PLY ROOF MEMBRANE OTHER SEALANT PRIMERS	CURRENT VOC LIMIT           250           760           300           250           450	Sources Using E Specifications 0° See California D https://www.cdpl 5.504.4.4. requireme Evaluation Chambers 01350).
MARINE DECK       760         OTHER       750         NOTE: FOR ADDITIONAL INFORMATION REGARDING METHODS TO MEASURE THE VOC CONTENT SPECIFIED IN THESE TABLES, SEE SOUTH COAST AIR QUALITY MANAGEMENT       5.504.4.5 Composite wood formaldehyde a seq.). Those ma Table 5.504.4.5	Less Water and Less Exempt Compounds in Grams per Lit SEALANTS ARCHITECTURAL MARINE DECK NONMEMBRANE ROOF ROADWAY SINGLE-PLY ROOF MEMBRANE OTHER SEALANT PRIMERS ARCHITECTURAL NONPOROUS	CURRENT VOC LIMIT 250 760 300 250 450 420 250 250	Sources Using E Specifications 0 See California D https://www.cdpl 5.504.4.4. requireme Evaluation Chambers 01350). See Califo
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	Less Water and Less Exempt Compounds in Grams per Lit SEALANTS ARCHITECTURAL MARINE DECK NONMEMBRANE ROOF ROADWAY SINGLE-PLY ROOF MEMBRANE OTHER SEALANT PRIMERS ARCHITECTURAL NONPOROUS POROUS POROUS MODIFIED BITUMINOUS MARINE DECK	CURRENT VOC LIMIT 250 760 300 250 450 450 420 250 250 775 500 760	Sources Using E Specifications 0 See California D https://www.cdpl 5.504.4.4 requireme Evaluation Chambers 01350). See Califo http 5.504.4.5 Comp composite wood formaldehyde as
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# **GREEN BUILDING STANDARDS CODE** TORY MEASURES, SHEET 3 (January 2023)

ONT.		Y	N/A RESPON. PARTY	5.504.4.6 Resilient flooring systems. Where resilient flooring is installed, at least 80 percent of floor area	Y N/A	RES	DTM	5.508.2 Superma
COATING, LESS WATER & LESS EXEM	MPT COMPOUNDS			receiving resilient flooring shall meet the requirements of the California Department of Public Health, 'Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using				provisions of this utilize either refrig
CATEGORY	CURRENT VOC LIMIT			Environmental Chambers," Version 1.2, January 2017 (Emission testing method for California Specifications 01350)				condensing units (high-GWP) refrig
GS	400			See California Department of Public Health's website for certification programs and testing labs. https://www.cdph.ca.gov/Programs/CCDPHP/DEODC/EHLB/IAQ/Pages/VOC.aspx#material				replacement of exception: Refrig
DATINGS	400			5.504.4.6.1 Verification of compliance. Documentation shall be provided verifying that resilient flooring			- 1	value less than 1 that include amm
	50			materials meet the pollutant emission limits.				5.508.2.1 F
ERS	350			5.504.4.7 Thermal insulation				accessible
DOUNDO	350			Comply with the requirements of the California Department of Public Health, "Standard Method of the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers,				diameter (0 refrigerant
POUNDS	350			"Version 1.2, January 1.2, January 2017 (Emission testing method for California Specification 01350). See California Department of Public Health's website for certification programs and testing labs.				5.50
ALERS	50			https://www.cdph.ca.gov/Programs/CCDPHP/DEODC/EHLB/IAQ/Pages/VOC.aspx#material				5.50
	150			5.504.4.7.1 Verification of compliance. Documentation shall be provided verifying that thermal insulation materials meet the pollutant emission				refrig
SS	350			limits.				
s	350			5.504.4.8 Acoustical ceiling and wall panels.				
5	100			Comply with the requirements of the California Department of Public Health, "Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers, "				5.50 cont
INDS	250			Version 1.2, January 2017 (Emission testing method for California Specification 01350). See California Department of Public Health's website for certification programs and testing labs.				
S (SIGN PAINTS)	500			5.504.4.8.1 Verification of compliance. Documentation shall be provided verifying that acoustical				
ATINGS	420			finish materials meet the pollutant emission limits.				
E COATINGS	250			5.504.5.3 Filters. In mechanically ventilated buildings, provide regularly occupied areas of the building with air				5.50 long
	120			filtration media for outside and return air that provides at least a Minimum Efficiency Reporting Value (MERV) of 13. MERV 13 filters shall be installed prior to occupancy, and recommendations for maintenance with filters of				5.508.2.2
TINGS	450			the same value shall be included in the operation and maintenance manual.				follows.
IGS	100			Exceptions: Existing mechanical equipment.				5.50 be in
DATINGS	500			5.504.5.3.1 Labeling. Installed filters shall be clearly labeled by the manufacturer indicating the MERV				bein
	250			rating.				
RIMERS	420			5.504.7 ENVIRONMENTAL TOBACCO SMOKE (ETS) CONTROL. Where outdoor areas are provided for smoking, prohibit smoking within 25 feet of building entries, outdoor air intakes and operable windows and within the building as				
DERCOATERS	100			already prohibited by other laws or regulations; or as enforced by ordinances, regulations or policies of any city, county, city and county, California Community College, campus of the California State University, or campus of the				5.50 perm
SEALERS	350			University of California, whichever are more stringent. When ordinances, regulations or policies are not in place, post signage to inform building occupants of the prohibitions.				Pen
	250							
	50			SECTION 5.505 INDOOR MOISTURE CONTROL 5.505.1 INDOOR MOISTURE CONTROL. Buildings shall meet or exceed the provisions of California Building Code.				
ATINGS	250			CCR, Title 24, Part 2, Sections 1202 (Ventilation) and Chapter 14 (Exterior Walls). For additional measures, see				
				Section 5.407.2 of this code.				
-	730			SECTION 5.506 INDOOR AIR QUALITY 5.506.1 OUTSIDE AIR DELIVERY. For mechanically or naturally ventilated spaces in buildings, meet the minimum				
	550			requirements of Section 120.1 (Requirements For Ventilation) of the California Energy Code, or the applicable local				
	1000 Alexandro			code, whichever is more stringent, and Division 1, Chapter 4 of CCR, Title 8.				5.508.2.3 F salt shall h
ALERS & UNDERCOATERS	100			5.506.2 CARBON DIOXIDE (CO2) MONITORING. For buildings or additions equipped with demand control ventilation, CO2 sensors and ventilation controls shall be specified and installed in accordance with the requirements				corrosion f
	250			of the California Energy Code, Section 120(c)(4).				5.50
	450			5.506.3 Carbon dioxide (CO2) monitoring in classrooms.				max
GS	340			(DSA-SS) Each public K-12 school classroom, as listed in Table 120.1-A of the <i>California Energy Code</i> , shall be equipped with a carbon dioxide monitor or sensor that meets the following requirements:				5.508.2.4 F with a devi
NGS	100			<ol> <li>The monitor or sensor shall be permanently affixed in a tamper-proof manner in each classroom between 3 and 6 feet (914 mm and 1829 mm) above the floor and at least 5 feet (1524 mm) away from door and operable</li> </ol>				5.508.2.5 F
TINGS	420			windows. 2. When the monitor or sensor is not integral to an Energy Management Control System (EMCS), the monitor or				charging.
RANES	250			sensor shall display the carbon dioxide readings on the device. When the sensor is integral to an EMCS, the				5.50
	275			<ul><li>carbon dioxide readings shall be available to and regularly monitored by facility personnel.</li><li>A monitor shall provide notification though a visual indicator on the monitor when the carbon dioxide levels in the</li></ul>				appr
	350			classroom have exceeded 1,100ppm. A sensor integral to an EMCS shall provide notification to facility personnel through a visual and/or audible indicator when the carbon dioxide levels in the classroom have				5.50 gaug
	340			exceeded 1,100ppm. 4. The monitor or sensor shall measure carbon dioxide levels at minimum 15- minute intervals and shall maintain a				5.50
OF COATING, INCLUDING WATER & EX				record of previous carbon dioxide measurements of not less than 30 days duration.				than
AIN IN EFFECT UNLESS REVISED LIMI	ITS ARE LISTED IN SUBSEQUENT COLUMNS IN			<ol><li>The monitor or sensor used to measure carbon dioxide levels shall have the capacity to measure carbon dioxide levels with a range of 400ppm to 2000ppm or greater.</li></ol>				5.508.2.6 E
	Y THE CALIFORNIA AIR RESOURCES BOARD, 3. 1, 2008, MORE INFORMATION IS AVAILABLE			<ol><li>The monitor or sensor shall be certified by the manufacturer to be accurate within 75ppm at 1,000ppm carbon dioxide concentration and shall be certified by the manufacturer to require calibration no more frequently than</li></ol>				5.50
DARD.				once every 5 years.				hold
	this section shall be provided at the request of			SECTION 5.507 ENVIRONMENTAL COMFORT				5.50 min
Documentation may include, but is er's product specification	s not limited to, the following:			5.507.4 ACOUSTICAL CONTROL. Employ building assemblies and components with Sound Transmission Class (STC) values determined in accordance with ASTM E 90 and ASTM E 413, or Outdoor-Indoor Sound Transmission				minu
ation of on-site product containers				Class (OITC) determined in accordance with ASTM E 1332, using either the prescriptive or performance method in Section 5.507,4.1 or 5.507,4.2.				5.50 with
ilding interior shall most the require	ements of the California Department of Public							
or the Testing and Evaluation of Vol	latile Organic Chemical Emissions from Indoor y 2017 (Emission testing method for California			Exception: Buildings with few or no occupants or where occupants are not likely to be affected by exterior noise, as determined by the enforcement authority, such as factories, stadiums, storage, enclosed parking structures and utility buildings.				CHAPTER
na prez 1969 na na mandra da construita da la construita de construita de construita da construita da construit				Exception: [DSA-SS] For public schools and community colleges, the requirements of this section and all				702 QUALIF
of Public Health's website for certific ograms/CCDPHP/DEODC/EHLB/IA				subsections apply only to new construction.				702.1 INSTA
	na dheann an 1999 ann an 1990 an an 1990 ann an 1990 ann an 1990 ann an 1990 ann an 1990.			5.507.4.1 Exterior noise transmission, prescriptive method. Wall and roof-ceiling assemblies exposed to				installation of HV/ certification progr
alifornia Department of Public Heal	in the building interior shall meet the lth,"Standard Method for the Testing and			the noise source making up the building or addition envelope or altered envelope shall meet a composite STC rating of at least 50 or a composite OITC rating of no less than 40, with exterior windows of a minimum STC of				responsibility of a Examples of acce
	Indoor Sources Using Environmental method for California Specifications			40 or OITC of 30 in the following locations:				1. State c
				1. Within the 65 CNEL noise contour of an airport.				<ol> <li>Public</li> <li>Training</li> </ol>
	certification programs and testing labs. DC/EHLB/IAQ/Pages/VOC.aspx#material			Exceptions:				4. Progra
				1. Lan or CNEL for military airports shall be determined by the facility Air Installation Compatible				5. Other p
	neet the requirements of Table 5.504.4.1.			Land Use Zone (AICUZ) plan. 2. Ldn or CNEL for other airports and heliports for which a land use plan has not been developed				702.2 SPECI responsible entity
	articleboard and medium density fiberboard buildings shall meet the requirements for			shall be determined by the local general plan noise element.			- I	other duties nece to the satisfaction
ARB's Air Toxics Control Measure	e (ATCM) for Composite Wood (17 CCR 93120 e eet the specified emission limits, as shown in	t		2. Within the 65 CNEL or Ldn noise contour of a freeway or expressway, railroad, industrial source or				other certification
kempted under the Arcivi must me	er the specified emission limits, as shown in			fixed-guideway source as determined by the Noise Element of the General Plan.				considered by the
	with this section shall be provided as include at least one of the following:			<b>5.507.4.1.1.</b> Noise exposure where noise contours are not readily available. Buildings exposed to a noise level of 65 dB $L_{eq}$ - 1-hr during any hour of operation shall have building, addition or alteration exterior wall and roof-ceiling assemblies exposed to the noise source meeting a composite STC rating of at least 45 (or OITC 35), with exterior windows of a minimum STC of 40 (or OITC 30).				<ol> <li>Certific</li> <li>Certific</li> <li>perform</li> <li>Succes</li> </ol>
certifications.	site Wood Products regulation (see							4. Other p
ction 93120, et seq.). ducts marked as meeting the PS-1 Association, the Australian AS/NZ	or PS-2 standards of the			5.507.4.2 Performance Method. For buildings located as defined in Section 5.507.4.1 or 5.507.4.1.1, wall and roof-ceiling assemblies exposed to the noise source making up the building or addition envelope or altered envelope shall be constructed to provide an interior noise environment attributable to exterior sources that does not exceed an hourly equivalent noise level (Leq-1Hr) of 50 dBA in occupied areas during any hour of operation.				Notes:
ceptable to the enforcing agency.				5.507.4.2.1 Site Features. Exterior features such as sound walls or earth berms may be utilized as				proje 2. l
				appropriate to the building, addition or alteration project to mitigate sound migration to the interior.				hom
RMALDEHYDE LIMITS				5.507.4.2.2 Documentation of Compliance. An acoustical analysis documenting complying interior				[BSC-CG] When
EMISSIONS IN PARTS PER MILI	LION			sound levels shall be prepared by personnel approved by the architect or engineer of record.				shall employ one compliance with t
	CURRENT LIMIT			5.507.4.3 Interior sound transmission. Wall and floor-ceiling assemblies separating tenant spaces and tenant spaces and public places shall have an STC of at least 40.				agency for the pa certification from
IEER CORE	0.05			Note: Examples of assemblies and their various STC ratings may be found at the California Office of				area of certification
MPOSITE CORE	0.05			Noise Control: www.toolbase.org/PDF/CaseStudies/stc_icc_ratings.pdf.				Note: Spe project the
	0.09			SECTION 5.508 OUTDOOR AIR QUALITY				
ARD	0.11			<b>5.508.1 Ozone depletion and greenhouse gas reductions.</b> Installations of HVAC, refrigeration and fire suppression equipment shall comply with Sections 5.508.1.1 and 5.508.1.2.				703 VERI
ERBOARD2				5.508.1.1 Chlorofluorocarbons (CFCs). Install HVAC, refrigeration and fire suppression equipment that do not			- 1-	703.1 DOCUMEI
R COMPOSITE WOOD AS TESTED IN A	THE CALIFORNIA AIR RESOURCES BOARD, AIR CCORDANCE WITH ASTM E 1333. FOR			contain CFCs.			- 1	acceptable to the special inspection
CALIFORNIA CODE OF REGULATIONS BOARD HAS A MAXIMUM THICKNESS (	S, TITLE 17, SECTIONS 93120 THROUGH 93120.12. OF 5/16 INCHES (8 MM).			5.508.1.2 Halons. Install HVAC, refrigeration and fire suppression equipment that do not contain Halons.				section or identifi
	- contraction (second)							



arket refrigerant leak reduction. New commercial refrigeration systems shall comply with the section when installed in retail food stores 8,000 square feet or more conditioned area, and that gerated display cases, or walk-in coolers or freezers connected to remote compressor units or . The leak reduction measures apply to refrigeration systems containing high-global-warming potential

gerants with a GWP of 150 or greater. New refrigeration systems include both new facilities and the existing refrigeration systems in existing facilities. igeration systems containing low-global warming potential (low-GWP) refrigerant with a GWP

150 are not subject to this section. Low-GWP refrigerants are nonozone-depleting refrigerants monia, carbon dioxide (CO<sub>2</sub>), and potentially other refrigerants.

**Refrigerant piping.** Piping compliant with the California Mechanical Code shall be installed to be e for leak protection and repairs. Piping runs using threaded pipe, copper tubing with an outside (OD) less than 1/4 inch, flared tubing connections and short radius elbows shall not be used in t systems except as noted below.

508.2.1.1 Threaded pipe. Threaded connections are permitted at the compressor rack.

**508.2.1.2 Copper pipe.** Copper tubing with an OD less than 1/4 inch may be used in systems with a frigerant charge of 5 pounds or less.

### 5.508.2.1.2.1 Anchorage. One-fouth-inch OD tubing shall be securely clamped to a rigid base to keep vibration levels below 9 mile

keep vibration levels below 8 mils. **508.2.1.3 Flared tubing connections.** Double-flared tubing connections may be used for pressure

ntrols, valve pilot lines and oil.

Exception: Single-flared tubing connections may be used with a multiring seal coated with industrial sealant suitable for use with refrigerants and tightened in accordance with manufacturer's recommendations.

### 508.2.1.4 Elbows. Short radius elbows are only permitted where space limitations prohibit use of

ng radius elbows. 2 **Valves.** Valves Valves and fittings shall comply with the *California Mechanical Code* and as

508.2.2.1 Pressure relief valves. For vessels containing high-GWP refrigerant, a rupture disc shall

5.508.2.2.1.1 Pressure detection. A pressure gauge, pressure transducer or other device shall

be installed in the space between the rupture disc and the relief valve inlet to indicate a disc rupture or discharge of the relief valve.

# **508.2.2.2 Access valves.** Only Schrader access valves with a brass or steel body are mitted for use.

5.508.2.2.1 Valve caps. For systems with a refrigerant charge of 5 pounds or more, valve caps shall be brass or steel and not plastic.

5.508.2.2.2.2 Seal cans If designed for

5.508.2.2.2.2 Seal caps. If designed for it, the cap shall have a neoprene O-ring in place.
5.508.2.2.2.2.1 Chain tethers. Chain tethers to fit ovr the stem are required for valves designed to have seal caps.

Exception: Valves with seal caps that are not removed from the valve during stem

operation. Refrigerated service cases. Refrigerated service cases holding food products containing vinegar and have evaporator coils of corrosion-resistant material, such as stainless steel; or be coated to prevent

from these substances. 508.2.3.1 Coil coating. Consideration shall be given to the heat transfer efficiency of coil coating to

### aximize energy efficiency.

**Refrigerant receivers.** Refrigerant receivers with capacities greater than 200 pounds shall be fitted vice tha indicates the level of refrigerant in the receiver.

Pressure testing. The system shall be pressure tested during installation prior to evacuation and

**508.2.5.1 Minimum pressure.** The system shall be charged with regulated dry nitrogen and propriate tracer gas to bring system pressure up to 300 psig minimum.

508.2.5.2 Leaks. Check the system for leaks, repair any leaks, and retest for pressure using the same auge. 508.2.5.3 Allowable pressure change. The system shall stand, unaltered, for 24 hours with no more

an a +/- one pound pressure change from 300 psig, measured with the same gauge.

508.2.6.1 First vacuum. Pull a system vacuum down to at least 1000 microns (+/- 50 microns), and old for 30 minutes.

508.2.6.2 Second vacuum. Pull a second system vacuum to a minimum of 500 microns and hold for 30 nutes.

**508.2.6.3 Third vacuum.** Pull a third vacuum down to a minimum of 300 microns, and hold for 24 hours ith a maximum drift of 100 microns over a 24-hour period.

# ER 7 LER & SPECIAL INSPECTOR QUALIFICATIONS

**ALLER TRAINING.** HVAC system installers shall be trained and certified in the proper VAC systems including ducts and equipment by a nationally or regionally recognized training or gram. Uncertified persons may perform HVAC installations when under the direct supervision and a person trained and certified to install HVAC systems or contractor licensed to install HVAC systems. ceptable HVAC training and certification programs include but are not limited to the following:

### certified apprenticeship programs. utility training programs.

ing programs sponsored by trade, labor or statewide energy consulting or verification organizations. rams sponsored by manufacturing organizations. programs acceptable to the enforcing agency.

**CIAL INSPECTION [HCD].** When required by the enforcing agency, the owner or the ty acting as the owner's agent shall employ one or more special inspectors to provide inspection or cessary to substantiate compliance with this code. Special inspectors shall demonstrate competence on of the enforcing agency for the particular type of inspection or task to be performed. In addition to ons or qualifications acceptable to the enforcing agency, the following certifications or education may be he enforcing agency when evaluating the qualifications of a special inspector:

fication by a national or regional green building program or standard publisher. fication by a statewide energy consulting or verification organization, such as HERS raters, building ormance contractors, and home energy auditors. essful completion of a third party apprentice training program in the appropriate trade.

r programs acceptable to the enforcing agency.

Special inspectors shall be independent entities with no financial interest in the materials or the oject they are inspecting for compliance with this code. HERS raters are special inspectors certified by the California Energy Commission (CEC) to rate omes in California according to the Home Energy Rating System (HERS).

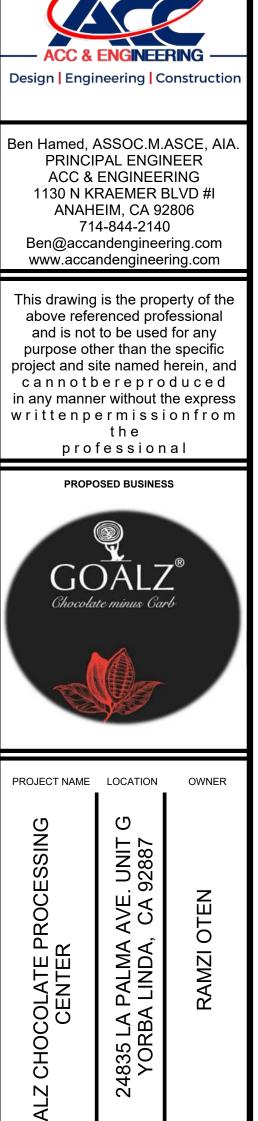
en required by the enforcing agency, the owner or the responsible entity acting as the owner's agent ne or more special inspectors to provide inspection or other duties necessary to substantiate h this code. Special inspectors shall demonstrate competence to the satisfaction of the enforcing particular type of inspection or task to be performed. In addition, the special inspector shall have a m a recognized state, national or international association, as determined by the local agency. The ation shall be closely related to the primary job function, as determined by the local agency.

pecial inspectors shall be independent entities with no financial interest in the materials or the ney are inspecting for compliance with this code.

# IFICATIONS

ENTATION. Documentation used to show compliance with this code shall include but is not limited to, cuments, plans, specifications, builder or installer certification, inspection reports, or other methods be enforcing agency which demonstrate substantial conformance. When specific documentation or on is necessary to verify compliance, that method of compliance will be specified in the appropriate ified applicable checklist.

DUE TO THE VARIABLES BETWEEN BUILDING DEPARTMENT JURISDICTIONS, THIS CHECKLIST IS TO BE USED ON AN INDIVIDUAL PROJECT BASIS AND MAY BE MODIFIED BY THE END USER TO MEET THOSE INDIVIDUAL NEEDS. THE END USER ASSUMES ALL RESPONSIBILITY ASSOCIATED WITH THE USE OF THIS DOCUMENT, INCLUDING VERIFICATION WITH THE FULL CODE.



THIS DRAWINGS PREPARED BY

AUTHORITY HAVING JURISDICTION (AHJ) BUILDING DEPARTMENT | CITY OF YORB LINDA REVISION SCHEDULE

(7)

REVISION REVISION REVISION SEQUENCE DESCRIPTION DATE

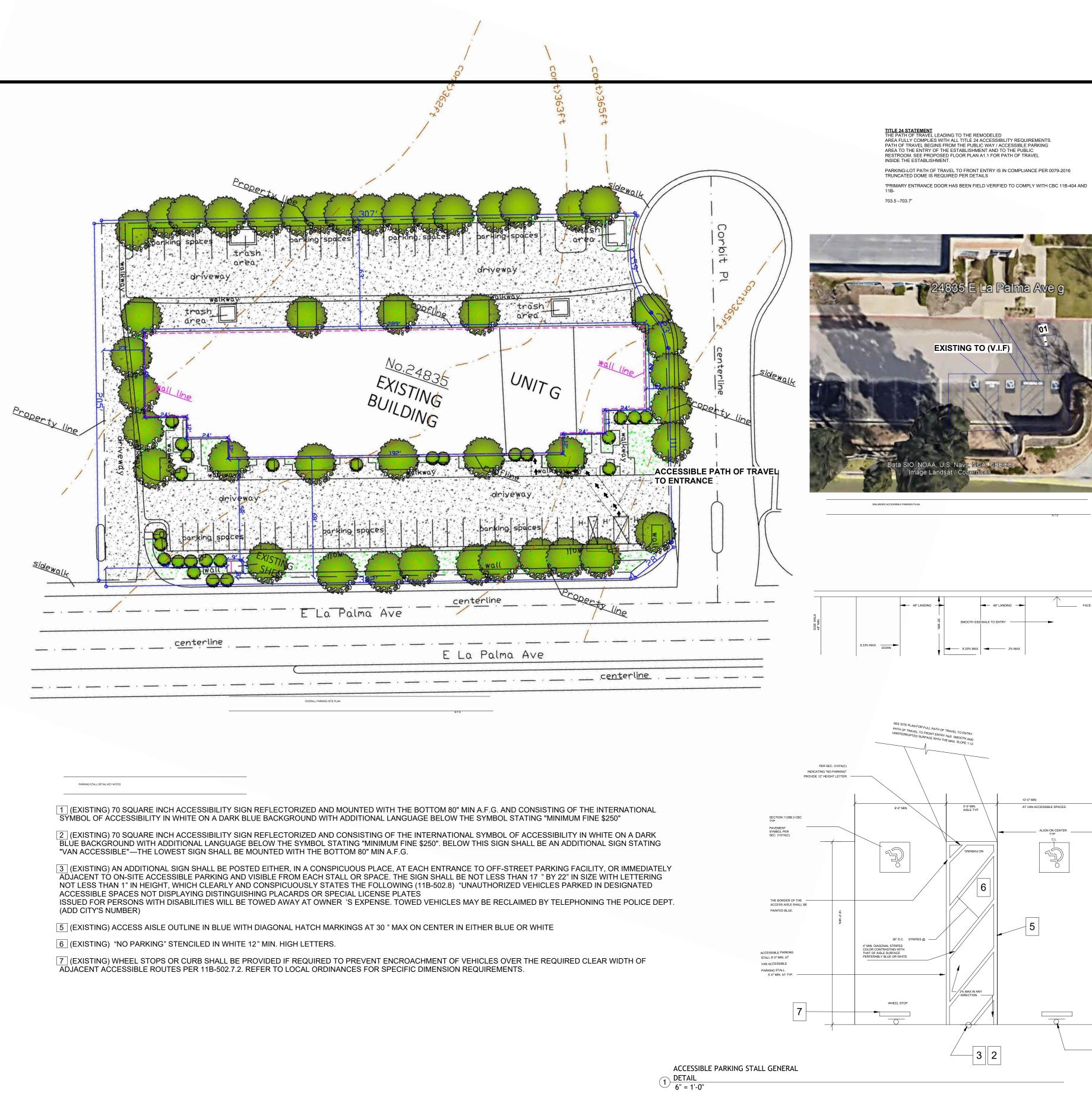
### ENGINEER OF RECORD REVIEWED BY SEAL / STAMP

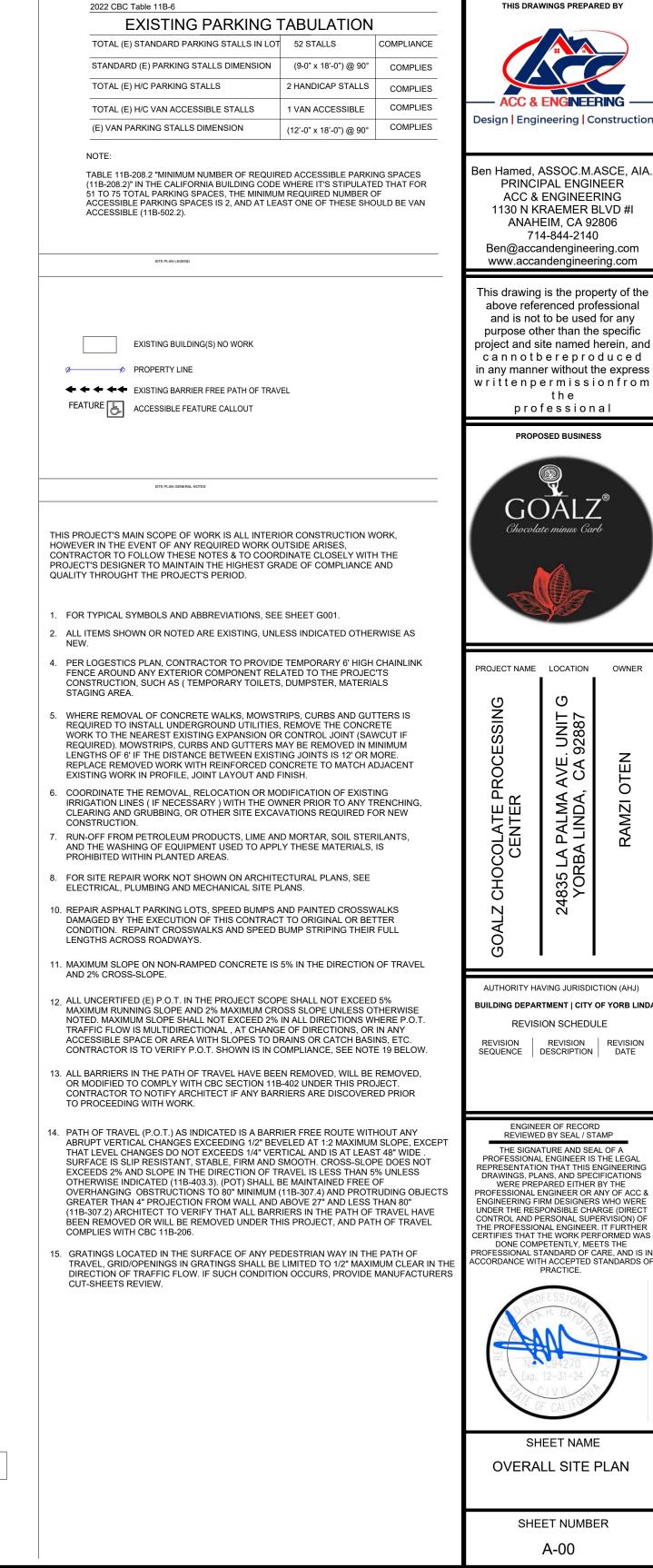
THE SIGNATURE AND SEAL OF A PROFESSIONAL ENGINEER IS THE LEGAL REPRESENTATION THAT THIS ENGINEERING DRAWINGS, PLANS, AND SPECIFICATIONS WERE PREPARED EITHER BY THE PROFESSIONAL ENGINEER OR ANY OF ACC & ENGINEERING FIRM DESIGNERS WHO WERE UNDER THE RESPONSIBLE CHARGE (DIRECT CONTROL AND PERSONAL SUPERVISION) OF THE PROFESSIONAL ENGINEER. IT FURTHER CERTIFIES THAT THE WORK PERFORMED WAS DONE COMPETENTLY, MEETS THE PROFESSIONAL STANDARD OF CARE, AND IS IN ACCORDANCE WITH ACCEPTED STANDARDS OF PRACTICE.



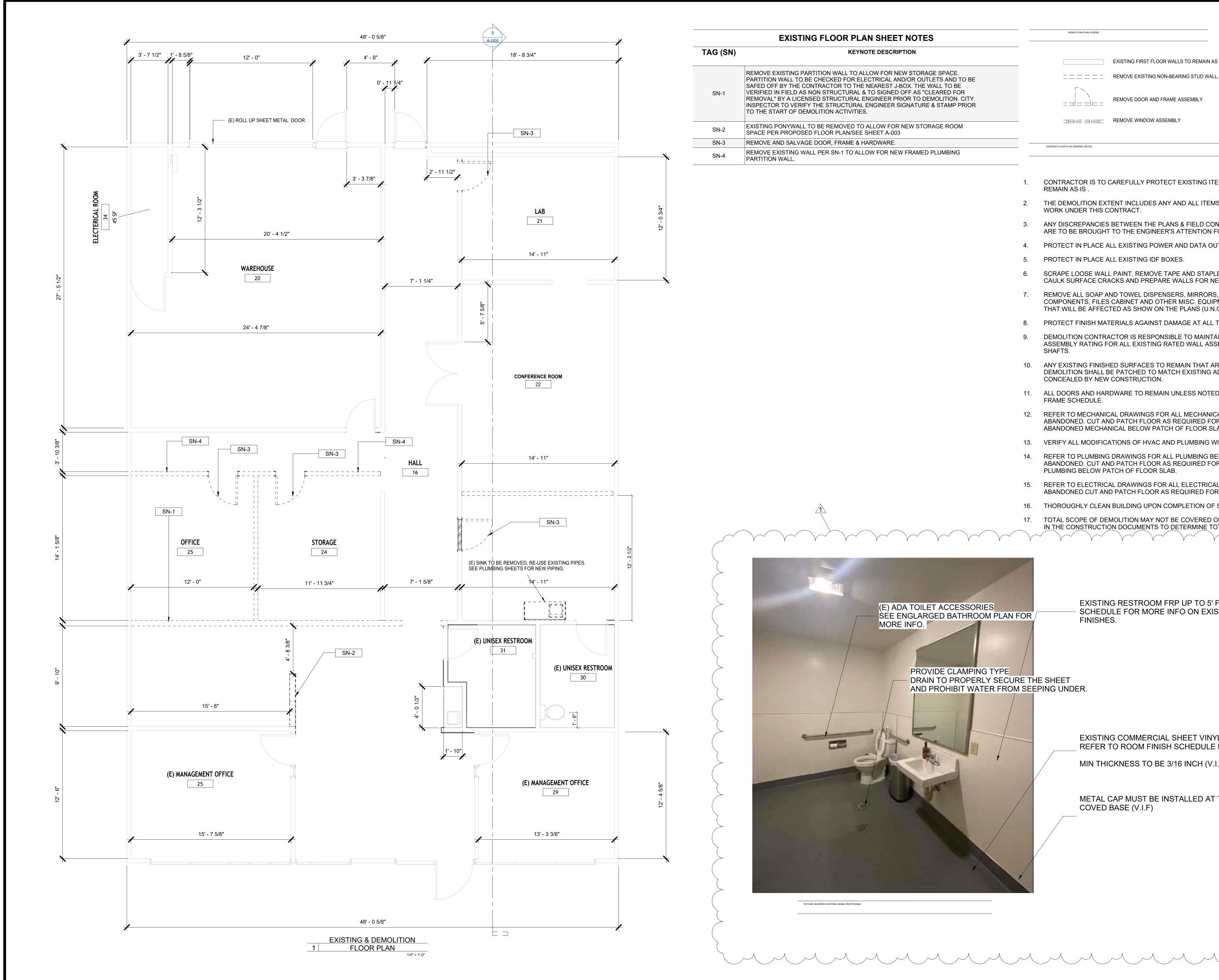
SHEET NAME CA-GREEN BUILDING STANDARDS

> SHEET NUMBER GR-003





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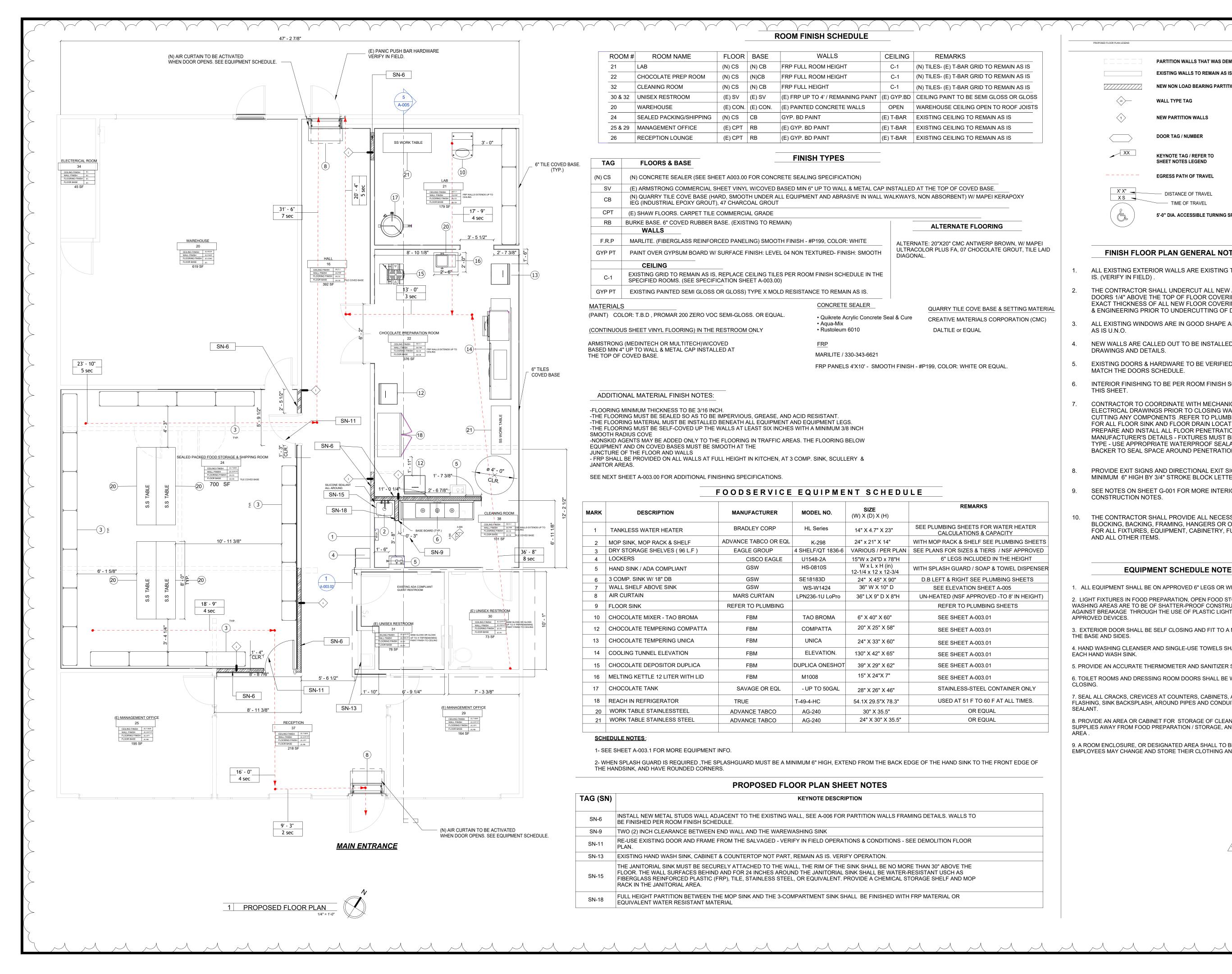


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COPE OF DEMOLITION MAY NOT BE COVERED ON THIS SHEET, REVIEW ALL SHEETS DNSTRUCTION DOCUMENTS TO DETERMINE TOTAL SCOPE OF DEMOLITION.	GOALZ CHOCOLATE CENTEF	24835 LA PALMA YORBA LINDA,	RAMZI OTEN
EXISTING RESTROOM FRP UP TO 5' FROM THE FLOOR. SEE ROOM FINISH - SCHEDULE FOR MORE INFO ON EXISTING AND NEW MATERIALS FINISHES.	0		
DER.	REVISION SEQUENCE		OF YORB LINDA
		ER OF RECORI D BY SEAL / ST	
EXISTING COMMERCIAL SHEET VINYL FLOORING WITH COVED BASE REFER TO ROOM FINISH SCHEDULE FOR MATERIALS SPECIFICATIONS MIN THICKNESS TO BE 3/16 INCH (V.I.F)	THE SIGNA PROFESSIONAL REPRESENTATIO DRAWINGS, PLJ WERE PREF PROFESSIONAL E ENGINEERING FI UNDER THE RES CONTROL AND P THE PROFESSIO CERTIFIES THAT 1	TURE AND SEA L ENGINEER IS DN THAT THIS E ANS, AND SPEC PARED EITHER ENGINEER OR A RM DESIGNER PONSIBLE CHA ERSONAL SUP NAL ENGINEER THE WORK PER PETENTLY, MER	AL OF A THE LEGAL ENGINEERING DIFICATIONS BY THE ANY OF ACC & S WHO WERE RGE (DIRECT ERVISION) OF ERVISION) OF ERVISION) OF ERVISION) OF EFORMED WAS ETS THE
METAL CAP MUST BE INSTALLED AT THE TOP OF THE COVED BASE (V.I.F)	ACCORDANCE WIT		
	SH	ESS70 94270 12-31-24 CAL	

SHEET NUMBER A-001

EXISTING & DEMO FLOOR

PLAN



5 1/2					MODEL NO SIZE		REMARKS
			FOOD	SERVIC	CE EQUIPMENT SO	HEDUL	<u> </u>
	SEE NEXT SHE	ET A-003.00 FOR ADDITIONAL FIN	ISHING SPE	CIFICATIONS			
		THE FLOOR AND WALLS E PROVIDED ON ALL WALLS AT FL \S.	JLL HEIGHT	IN KITCHEN,	AT 3 COMP. SINK, SCULLERY &		
	-THE FLOORIN -THE FLOORIN -THE FLOORIN SMOOTH RADI -NONSKID AGE EQUIPMENT AN	NTS MAY BE ADDED ONLY TO THE	IMPERVIOU BENEATH A WALLS AT L E FLOORING	ALL EQUIPME EAST SIX INC G IN TRAFFIC	NT AND EQUIPMENT LEGS. CHES WITH A MINIMUM 3/8 INCH		
I	ADDITION	AL MATERIAL FINISH NOTES:					
6" TILES					FRP PANELS 4'X10' - SI	MOOTH FINISH	I - #P199, COLOR: WHITE OR EQUAL.
		JP TO WALL & METAL CAP IŃSTALI			 MARILITE / 330-343-662		
	<u> </u>	MEDINTECH OR MULTITECH)W/CO			FRP		DALTILE OF EQUAL
		R: T.B.D , PROMAR 200 ZERO VOC SHEET VINYL FLOORING) IN THE I			L. • Quikrete Acrylic Concre • Aqua-Mix • Rustoleum 6010	te Seal & Cure	CREATIVE MATERIALS CORPORATION DALTILE or EQUAL
	MATERIALS				CONCRETE SEALER		QUARRY TILE COVE BASE & SETTING I
	GYP PT	EXISTING PAINTED SEMI GLOSS	OR GLOSS)	TYPE X MOLE	D RESISTANCE TO REMAIN AS IS.		
—(13)		EXISTING GRID TO REMAIN AS IS, SPECIFIED ROOMS. (SEE SPECIFI			S PER ROOM FINISH SCHEDULE IN T )	HE	
1		CEILING					
0	GYP PT	PAINT OVER GYPSUM BOARD W/	SURFACE F	INISH: LEVEL	. 04 NON TEXTURED- FINISH: SMOOT	H ULTRA	ACOLOR PLUS FA, 07 CHOCOLATE GROUT, TI NNAL.
	F.R.P	MARLITE. (FIBERGLASS REINFOR		ING) SMOOT	H FINISH - #P199, COLOR: WHITE		NATE: 20"X20" CMC ANTWERP BROWN, W/ M
	RB B	BURKE BASE. 6" COVED RUBBER B	BASE. (EXIST	TING TO REM	AIN)		ALTERNATE FLOORING
		(E) SHAW FLOORS. CARPET TILE					
	СВ	(N) QUARRY TILE COVE BASE (HA IEG (INDUSTRIAL EPOXY GROUT)			L EQUIPMENT AND ABRASIVE IN WA	LL WALKWAYS	S, NON ABSORBENT) W/ MAPEI KERAPOXY
	. ,				ASED MIN 6" UP TO WALL & METAL C		DAT THE TOP OF COVED BASE.
(TYP.)		(N) CONCRETE SEALER (SEE SHE	ET A003.00	FOR CONCR	ETE SEALING SPECIFICATION)		
6" TILE COVED BASE.	TAG	FLOORS & BASE			FINISH TYPES	_	
	25 & 29	MANAGEMENT OFFICE     RECEPTION LOUNGE	(E) CPT (E) CPT		(E) GYP. BD PAINT (E) GYP. BD PAINT	(E) T-BAR (E) T-BAR	EXISTING CEILING TO REMAIN AS IS EXISTING CEILING TO REMAIN AS IS
	24	SEALED PACKING/SHIPPING	(N) CS		GYP. BD PAINT	(E) T-BAR	EXISTING CEILING TO REMAIN AS IS
	20	WAREHOUSE	(E) CON.	· · /	(E) PAINTED CONCRETE WALLS	OPEN	WAREHOUSE CEILING OPEN TO ROOF JOI
	30 & 32	2 UNISEX RESTROOM	(E) SV	· · /	(E) FRP UP TO 4' / REMAINING PAINT	(E) GYP.BD	CEILING PAINT TO BE SEMI GLOSS OR GLO
	32	CLEANING ROOM	(N) CS	(N) CB	FRP FULL HEIGHT	C-1	(N) TILES- (E) T-BAR GRID TO REMAIN AS I
	22	CHOCOLATE PREP ROOM	(N) CS	(N)CB	FRP FULL ROOM HEIGHT	C-1	(N) TILES- (E) T-BAR GRID TO REMAIN AS
	21	LAB	(N) CS	(N) CB	FRP FULL ROOM HEIGHT	C-1	(N) TILES- (E) T-BAR GRID TO REMAIN AS
			FLOOR	BASE	WALLS	CEILING	REMARKS

MARK	DESCRIPTION	MANUFACTURER	MODEL NO.	<b>SIZE</b> (W) X (D) X (H)	REMARKS
1	TANKLESS WATER HEATER	BRADLEY CORP	HL Series	14" X 4.7" X 23"	SEE PLUMBING SHEETS FOR WATER HEATER CALCULATIONS & CAPACITY
2	MOP SINK, MOP RACK & SHELF	ADVANCE TABCO OR EQL	K-298	24" x 21" X 14"	WITH MOP RACK & SHELF SEE PLUMBING SHE
3	DRY STORAGE SHELVES ( 96 L.F )	EAGLE GROUP	4 SHELF/QT 1836-6	VARIOUS / PER PLAN	SEE PLANS FOR SIZES & TIERS / NSF APPROV
4	LOCKERS	CISCO EAGLE	U1548-2A	15"W x 24"D x 78"H	6" LEGS INCLUDED IN THE HEIGHT
5	HAND SINK / ADA COMPLIANT	GSW	HS-0810S	W x L x H (in) 12-1/4 x 12 x 12-3/4	WITH SPLASH GUARD / SOAP & TOWEL DISPEN
6	3 COMP. SINK W/ 18" DB	GSW	SE18183D	24" X 45" X 90"	D.B LEFT & RIGHT SEE PLUMBING SHEETS
7	WALL SHELF ABOVE SINK	GSW	WS-W1424	36" W X 10" D	SEE ELEVATION SHEET A-005
8	AIR CURTAIN	MARS CURTAIN	LPN236-1U LoPro	36" LX 9" D X 8"H	UN-HEATED (NSF APPROVED -TO 8' IN HEIGI
9	FLOOR SINK	REFER TO PLUMBING			REFER TO PLUMBING SHEETS
10	CHOCOLATE MIXER - TAO BROMA	FBM	TAO BROMA	6" X 40" X 60"	SEE SHEET A-003.01
12	CHOCOLATE TEMPERING COMPATTA	FBM	COMPATTA	20" X 25" X 58"	SEE SHEET A-003.01
13	CHOCOLATE TEMPERING UNICA	FBM	UNICA	24" X 33" X 60"	SEE SHEET A-003.01
14	COOLING TUNNEL ELEVATION	FBM	ELEVATION.	130" X 42" X 65"	SEE SHEET A-003.01
15	CHOCOLATE DEPOSITOR DUPLICA	FBM	DUPLICA ONESHOT	39" X 29" X 62"	SEE SHEET A-003.01
16	MELTING KETTLE 12 LITER WITH LID	FBM	M1008	15" X 24"X 7"	SEE SHEET A-003.01
17	CHOCOLATE TANK	SAVAGE OR EQL	- UP TO 50GAL	28" X 26" X 46"	STAINLESS-STEEL CONTAINER ONLY
18	REACH IN REFRIGERATOR	TRUE	T-49-4-HC	54.1X 29.5"X 78.3"	USED AT 51 F TO 60 F AT ALL TIMES.
20	WORK TABLE STAINLESSTEEL	ADVANCE TABCO	AG-240	30" X 35.5"	OR EQUAL
21	WORK TABLE STAINLESS STEEL	ADVANCE TABCO	AG-240	24" X 30" X 35.5"	OR EQUAL

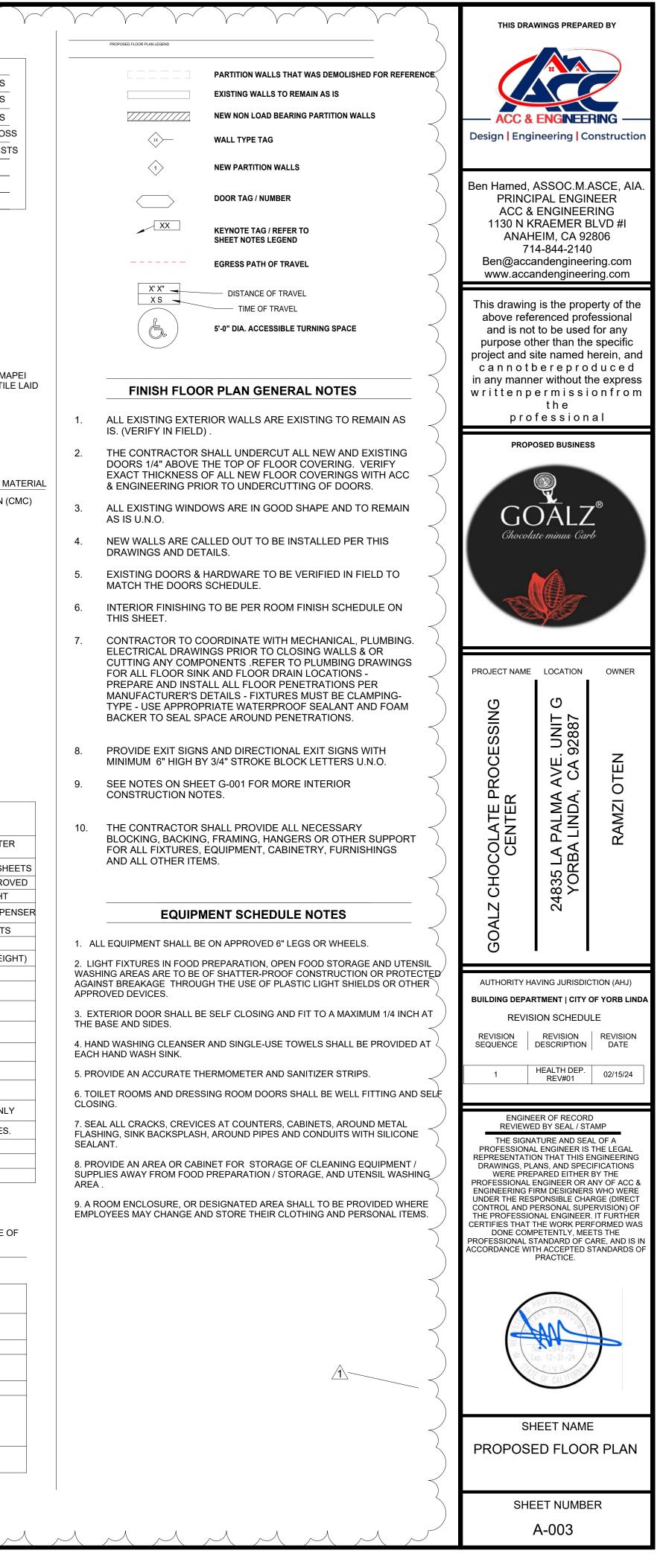
### SCHEDULE NOTES:

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1- SEE SHEET A-003.1 FOR MORE EQUIPMENT INFO.

2- WHEN SPLASH GUARD IS REQUIRED , THE SPLASHGUARD MUST BE A MINIMUM 6" HIGH, EXTEND FROM THE BACK EDGE OF THE HAND SINK TO THE FRONT EDGE OF THE HANDSINK, AND HAVE ROUNDED CORNERS.

PROPOSED FLOOR PLAN SHEET NOTES					
TAG (SN)	KEYNOTE DESCRIPTION				
SN-6	INSTALL NEW METAL STUDS WALL ADJACENT TO THE EXISTING WALL, SEE A-006 FOR PARTITION WALLS FRAMING DETAILS. WALLS TO BE FINISHED PER ROOM FINISH SCHEDULE.				
SN-9	TWO (2) INCH CLEARANCE BETWEEN END WALL AND THE WAREWASHING SINK				
SN-11	RE-USE EXISTING DOOR AND FRAME FROM THE SALVAGED - VERIFY IN FIELD OPERATIONS & CONDITIONS - SEE DEMOLITION FLOOR PLAN.				
SN-13	EXISTING HAND WASH SINK, CABINET & COUNTERTOP NOT PART, REMAIN AS IS. VERIFY OPERATION.				
SN-15	THE JANITORIAL SINK MUST BE SECURELY ATTACHED TO THE WALL, THE RIM OF THE SINK SHALL BE NO MORE THAN 30" ABOVE THE FLOOR. THE WALL SURFACES BEHIND AND FOR 24 INCHES AROUND THE JANITORIAL SINK SHALL BE WATER-RESISTANT USCH AS FIBERGLASS REINFORCED PLASTIC (FRP), TILE, STAINLESS STEEL, OR EQUIVALENT. PROVIDE A CHEMICAL STORAGE SHELF AND MOP RACK IN THE JANITORIAL AREA.				
SN-18	FULL HEIGHT PARTITION BETWEEN THE MOP SINK AND THE 3-COMPARTMENT SINK SHALL BE FINISHED WITH FRP MATERIAL OR EQUIVALENT WATER RESISTANT MATERIAL				



### FLOORING MATERIAL SPECIFICATION: QUARRY TILES

PRODUCT TYPE: UNGLAZED QUARRY TILE.

DIMENSIONS: 8"X8"X1/2"

SURFACE FINISH: SLIP-RESISTANT, NATURAL MATTE FINISH WITH SLIGHT TEXTURE FOR ENHANCED GRIP AND SAFETY.

COLOR: ASHEN GRAY SQUARE MATT FINISH.

EDGE FINISH: SQUARE EDGES FOR MINIMAL GROUT LINES, CONTRIBUTING TO A SEAMLESS, HYGIENIC SURFACE.

**INSTALLATION METHOD:** SHOULD BE INSTALLED USING THIN-SET MORTAR WITH A LATEX ADDITIVE FOR IMPROVED ADHESI AND MOISTURE RESISTANCE. JOINTS SHOULD BE FILLED WITH HIGH-QUALITY EPOXY GROUT FOR MAXIMUM STAIN RESISTANCE AND EASE OF CLEANING.

GROUT JOINT WIDTH: RECOMMEND 3/8" TO ALLOW FOR THERMAL EXPANSION AND CONTRACTION AND FACILITATE CLEAN

**SEALING:** TILES DO NOT REQUIRE SEALING; HOWEVER, SEALING THE GROUT LINES WITH A HIGH-QUALITY, FOOD-SAFE SEALANT IS RECOMMENDED FOR ADDITIONAL PROTECTION AGAINST MOISTURE AND BACTERIA.

**PERFORMANCE CRITERIA:** 

SLIP RESISTANCE: TILES MUST MEET OR EXCEED THE DYNAMIC COEFFICIENT OF FRICTION (DCOF) RATING OF ≥0.42 FOR W CONDITIONS, AS RECOMMENDED BY THE AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI) A137.1 STANDARDS.

WATER ABSORPTION: LESS THAN 3%, CLASSIFYING IT AS VITREOUS FOR RESISTANCE TO MOISTURE AND STAINING.

CHEMICAL RESISTANCE: RESISTANT TO COMMON KITCHEN ACIDS, ALKALIS, AND SOLVENTS.

THERMAL SHOCK RESISTANCE: MUST WITHSTAND RAPID TEMPERATURE CHANGES WITHOUT CRACKING.

**COMPLIANCE:** TILES MUST COMPLY WITH ANSI A137.1 STANDARDS FOR CERAMIC TILE, ADA (AMERICANS WITH DISABILITIES ACT) REQUIREMENTS FOR SLIP RESISTANCE, AND LOCAL HEALTH DEPARTMENT REGULATIONS FOR COMMERCIAL KITCHEI FLOORING.

MANUFACTURER: DALTILE OR EQUAL.

CEILING TILE SPECIFICATIONS

Acoustics		Material	Mineral Fiber
Sound Blocking (CAC)	40	Texture	Smooth
% Open Area	0%	Surface Finish	Vinyl-faced membrane
Fire		Shape	Rectangle
Fire Performance	Fire Resistive	Weight	1.11 lbs/SF
Fire Resistance *	FIREGUARD	Sq Ft (Sq Ft / Carton)	64
Light Reflectance	80%	Pieces / Carton	8
Sag/Humidity Resistance	Standard	ASTM Classification	Type: IV, Form: 2, Pattern: E
Clean Room Classification	Clean Room Class 100	Installation Method	Grid (Suspended)
Insulation Value	R Factor-BTU: 1.50 BTU R Factor-Watts: 0.26 m2 K/W		
Mold/Mildew Resistance	BIOBLOCK		
Disinfectability			
Fog			
Spray			
Wipe			
Durability			
Water Repellent			
Soil Resistance			
Washability			
Scrubbability			
Special Applications	Kitchen Clean Room		

	TYPE: CLEAR PENETRATING CONCRETE SEALER.
	PERFORMANCE REQUIREMENTS: MUST BE CERTIFIED BY THE MANUFACTURER TO RESIST OIL, ACID, AND WATER PENETRATIC CERTIFICATION TO VERIFY COMPLIANCE WITH HEALTH DEPARTMENT REQUIREMENTS FOR USE IN FOOD PREPARATION AREAS
	<b>1. CHEMICAL COMPOSITION:</b> THE SEALER SHOULD BE NON-TOXIC, VOC COMPLIANT, AND SAFE FOR USE IN AREAS WHERE FOC INCLUDE ANY SUBSTANCES THAT ARE HAZARDOUS TO HUMAN HEALTH OR THE ENVIRONMENT. APPROVAL: MUST HAVE APPROVAL FROM RELEVANT HEALTH AND SAFETY REGULATORY BODIES FOR USE IN FOOD PREP ARE
	2. SURFACE PREPARATION:
SION	<u>CLEANING:</u> THE CONCRETE FLOOR MUST BE THOROUGHLY CLEANED TO REMOVE ALL FORMS OF CONTAMINANTS INCLUDING CLEANING METHODS CAN INCLUDE MECHANICAL ABRASION OR CHEMICAL CLEANERS AS APPROPRIATE FOR THE LEVEL OF CO REPAIR: ANY CRACKS, CHIPS, OR OTHER FORMS OF DAMAGE IN THE CONCRETE SHOULD BE REPAIRED PRIOR TO THE APPLICA COMPOUND THAT IS COMPATIBLE WITH THE SELECTED SEALER.
	DRYING: THE FLOOR MUST BE ALLOWED TO DRY COMPLETELY AFTER CLEANING AND REPAIRS, ENSURING THERE'S NO MOIST APPLICATION.
	3. APPLICATION METHOD:
WET	TOOL SELECTION: USE SPRAYERS, ROLLERS, OR BRUSHES SPECIFICALLY DESIGNED FOR THE APPLICATION OF CONCRETE SE COVERAGE WITHOUT POOLING.
	APPLICATION CONDITIONS: APPLY THE SEALER UNDER CONDITIONS RECOMMENDED BY THE MANUFACTURER, TYPICALLY AT TO ENSURE PROPER CURING AND PERFORMANCE.
	<u>COVERAGE:</u> FOLLOW THE MANUFACTURER'S INSTRUCTIONS FOR COVERAGE RATES TO ENSURE OPTIMAL PERFORMANCE. AN OR UNDER-APPLICATION WHICH MAY NOT PROVIDE SUFFICIENT PROTECTION.
S N	CURING TIME: ALLOW THE SEALER TO CURE AS PER THE MANUFACTURER'S RECOMMENDED TIME FRAME BEFORE ALLOWING AREA.
	4. MAINTENANCE AND CLEANING:
	ROUTINE CLEANING: CONTRACTOR TO PROVIDE A CLEANING PROTOCOL THAT DOES NOT COMPROMISE THE INTEGRITY OF THE DESIGNED FOR SEALED CONCRETE FLOORS.
	<u>SLIP RESISTANCE:</u> IF SLIP-RESISTANT AGENTS ARE ADDED TO THE SEALER, ENSURE THAT THEY ARE USED IN MODERATION T REQUIRE SPECIALIZED CLEANING EQUIPMENT.
	HIGH-PRESSURE CLEANING SYSTEM: IN CASES WHERE SLIP-RESISTANT AGENTS ARE USED IN SIGNIFICANT AMOUNTS, A HIGH DRAINS MUST BE AVAILABLE TO EFFECTIVELY CLEAN THE FLOOR WITHOUT DAMAGING THE SEALER.
_	5. INSPECTION AND COMPLIANCE:
	INSPECTION: CONDUCT REGULAR INSPECTIONS OF THE SEALED FLOOR TO ENSURE IT MAINTAINS ITS INTEGRITY AND CONTIN SPECIAL ATTENTION TO AREAS WITH HEAVY TRAFFIC OR EXPOSURE TO SPILLAGES.
	DOCUMENTATION: MAINTAIN RECORDS OF PRODUCT SPECIFICATIONS, SAFETY DATA SHEETS, APPLICATION PROCEDURES, AN HEALTH DEPARTMENT REQUIREMENTS.
	SPECIFICATION: COVED BASE ON CONCRETE FLOOR

CONTRACTOR TO COMPLETE THE INSTALLATION OF A 6" TILE COVED BASE AROUND THE DESIGNATED AREAS AS PER THE DETAILED SPECIFICATIONS PROVIDED HEREIN. CONTRACTOR TO SEAL THE COVE BASE TO THE SUBSTRATE TO PREVENT WATER PENETRATION AND ENSURE A SANITARY SEAL.

### MATERIALS SPECIFICATION:

TILES: PORCELAIN OR CERAMIC TILES RATED FOR COMMERCIAL USE, WITH A MINIMUM THICKNESS OF 5/16". THE TILES SHALL BE IMPERVIOUS TO MOISTURE AND EASY TO CLEAN, WITH A SLIP-RESISTANT SURFACE. ADHESIVE: HIGH-QUALITY, WATERPROOF TILE ADHESIVE SUITABLE FOR USE WITH PORCELAIN OR CERAMIC TILES. GROUT: EPOXY GROUT FOR MAXIMUM DURABILITY AND RESISTANCE TO MOISTURE AND CHEMICALS. SEALANT: 100% SILICONE SEALANT FOR SEALING THE TILE-TO-WALL TRANSITION AND ANY CORNERS OR JOINTS.

### SUBSTRATE PREPARATION:

THE CONCRETE SUBSTRATE MUST BE THOROUGHLY CLEANED AND LEVELED. REPAIR ANY CRACKS OR UNEVEN AREAS TO ENSURE A SMOOTH BASE FOR TILE INSTALLATION. APPLY A WATERPROOF MEMBRANE WHERE NECESSARY TO FURTHER PREVENT MOISTURE PENETRATION. FLOOR AND WALL, LEAVING NO GAPS.

### **SEALING AND FINISHING:**

APPLY SILICONE SEALANT ALONG THE TOP & BOTTOM EDGE OF THE COVE BASE WHERE IT MEETS THE WALL AND THE FLOOR, AS WELL AS IN ANY INTERNAL CORNERS OR WHERE DIFFERENT MATERIALS MEET. THE SEALANT SHOULD BE SMOOTH, WITH NO GAPS OR BUBBLES, TO ENSURE A WATERPROOF BARRIER.

TION. THE PRODUCT SHOULD HAVE DOCUMENTATION OR AS.

OOD IS PREPARED AND STORED. THE COMPOSITION SHOULD NOT REAS.

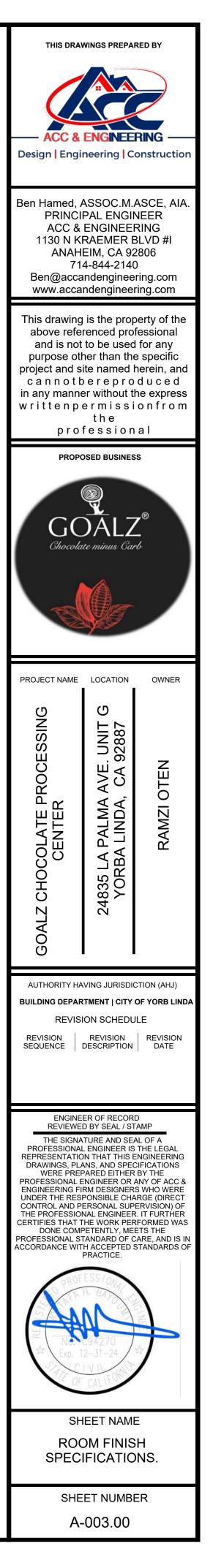
G GREASE, OIL, EXISTING SEALANTS, AND ANY FORMS OF DEBRIS. CONTAMINATION. ICATION OF THE SEALER. USE A SUITABLE CONCRETE REPAIR

STURE PRESENT IN THE CONCRETE AT THE TIME OF SEALER

SEALERS. TOOLS SHOULD ALLOW FOR EVEN AND COMPREHENSIVE AT TEMPERATURES BETWEEN 50°F AND 90°F WITH LOW HUMIDITY, AVOID OVER-APPLICATION WHICH CAN LEAD TO SURFACE ISSUES IG TRAFFIC OR RESUMING FOOD PREPARATION ACTIVITIES IN THE

THE SEALER. USING CLEANING AGENTS THAT ARE PH-NEUTRAL AND TO PREVENT EXCESSIVE SURFACE ROUGHNESS WHICH MAY GH-PRESSURE CLEANING SYSTEM WITH DRAINAGE TO FLOOR

INUES TO MEET HEALTH DEPARTMENT REQUIREMENTS. PAY AND INSPECTION REPORTS TO DEMONSTRATE COMPLIANCE WITH

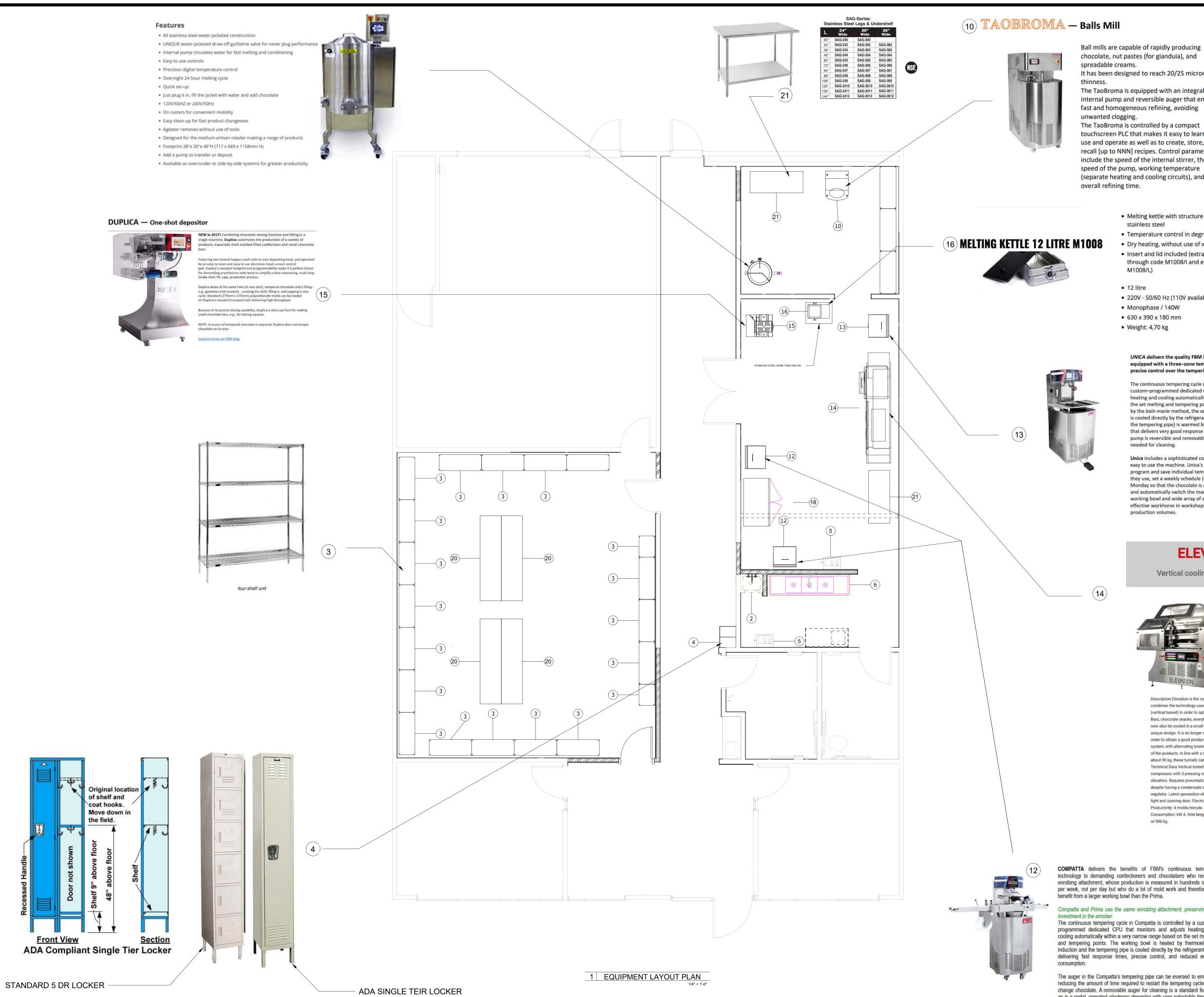




Featuring two heated hoppers each with its own depositing head, and operated by an easy-to-learn and easy-to use electronic touch screen control pad, Duplica's compact footprint and programmability make it a perfect choice for demanding practitioners who want to simplify a time-consuming, multi-step nake shell, fill, cap), production process.

Because of its precise dosing capability, Duplica is also a perfect for making





chocolate, nut pastes (for gianduia), and spreadable creams. It has been designed to reach 20/25 microns

The TaoBroma is equipped with an integral internal pump and reversible auger that ensure fast and homogeneous refining, avoiding unwanted clogging.

The TaoBroma is controlled by a compact touchscreen PLC that makes it easy to learn to use and operate as well as to create, store, and recall [up to NNN] recipes. Control parameters include the speed of the internal stirrer, the speed of the pump, working temperature (separate heating and cooling circuits), and the overall refining time.

- Melting kettle with structure and lid in plastic, insert in stainless steel
- Temperature control in degrees (°C) up to 65°C
- Dry heating, without use of water Insert and lid included (extra insert can be ordered through code M1008/I and extra lid through code M1008/L)
- 12 litre
- 220V 50/60 Hz (110V available upon request)
- Monophase / 140W 630 x 390 x 180 mm
- Weight: 4,70 kg

UNICA delivers the quality FBM is famous for and comes equipped with a three-zone tempering system enabling more precise control over the tempering curve.

The continuous tempering cycle in Unica is controlled by a custom-programmed dedicated CPU that monitors and adjusts heating and cooling automatically within a narrow range based on the set melting and tempering points. The working bowl is heated by the bain marie method, the second stage (the tempering pipe) is cooled directly by the refrigerant gas, and the final stage (after the tempering pipe) is warmed by induction wire — a combination that delivers very good response times and stability. The auger pump is reversible and removable to reduce time and effort needed for cleaning.

Unica includes a sophisticated computer controller that makes it easy to use the machine. Unica's brain enables operators to program and save individual tempering curves for the chocolates they use, set a weekly schedule (e.g., turn the machine early on Monday so that the chocolate is melted when the doors open), and automatically switch the machine off. With its 40kg capacity working bowl and wide array of accessories, Unica is a costeffective workhorse in workshops with moderate to high production volumes.

# **ELEVATION**

Vertical cooling tunnel for molds.



**ELEVATION** 

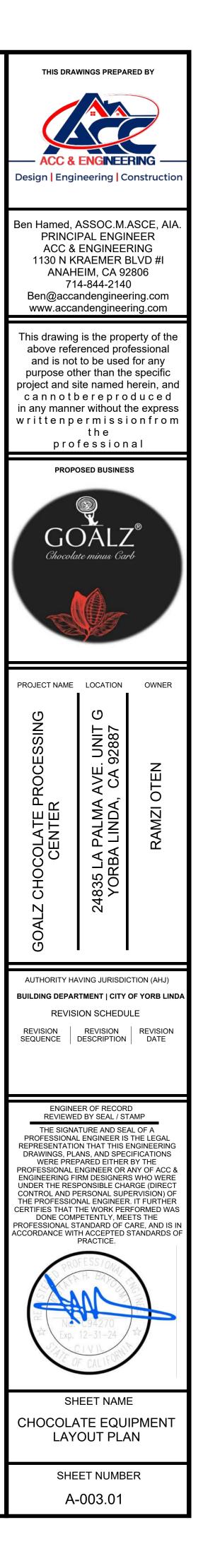
Description Elevation is the new Fbm tunnel, with vertical development, which combines the technology used on Climatico (horizontal tunnel) and Clima (vertical tunnel) in order to optimize the production of "molded" chocolate. Bars, chocolate snacks, everything produced using polycarbonate molds can now also be cooled in a small space, without sacrificing productivity and a truly unique design. It is no longer necessary to have industrial size laboratories in order to obtain a good production of molded products. The vertical movement system, with alternating towers, guarantees the finishing and complete cooling of the products. In line with a tempering machine with an hourly production of about 90 kg, these tunnels can cool up to 900 bars (100 grams each) per hour. Technical Data Vertical tunnel for molds 275mm x 175mm. Equipped with compressor with 3 pressing rotors with three internal belts and 2 ascent elevators. Requires pneumatic and electrical connection. No water connection despite having a condensate drain at the base. Conveyor system speed regulator. Latest generation electronic board. Inspection windows with internal light and opening door. Electronically adjustable temperature (up to 5°C). Productivity: 4 molds/minute. Voltage: 220/380 V three-phase 50/60 Hz. Consumption: kW 4. Inlet length: 450 mm Outlet length: 420 mm. Weight: 700 or 900 kg.

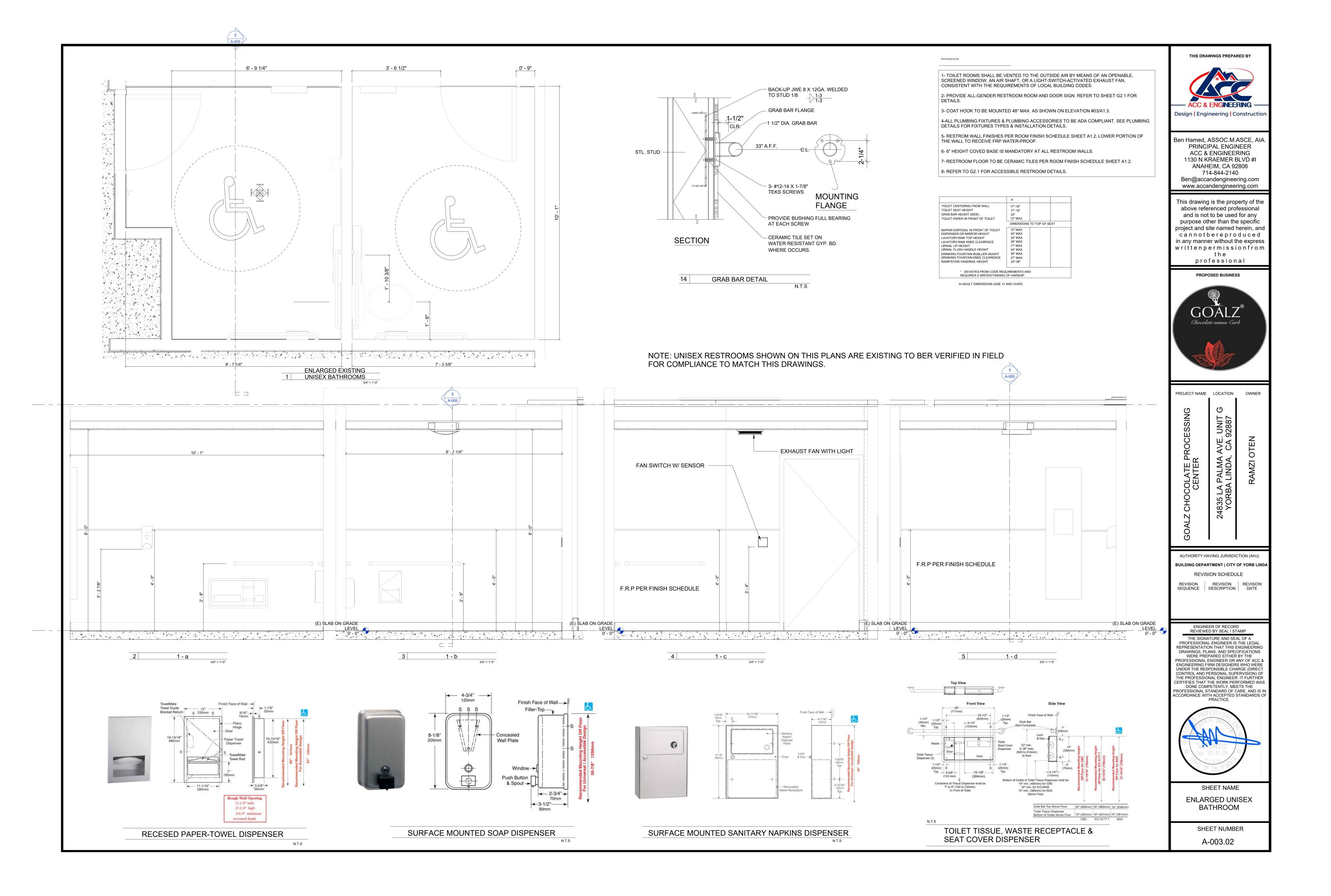
COMPATTA delivers the benefits of FBM's continuous tempering technology to demanding confectioners and chocolatiers who need an enrobing attachment, whose production is measured in hundreds of kilos per week, not per day but who do a lot of mold work and therefore can benefit from a larger working bowl than the Prima.

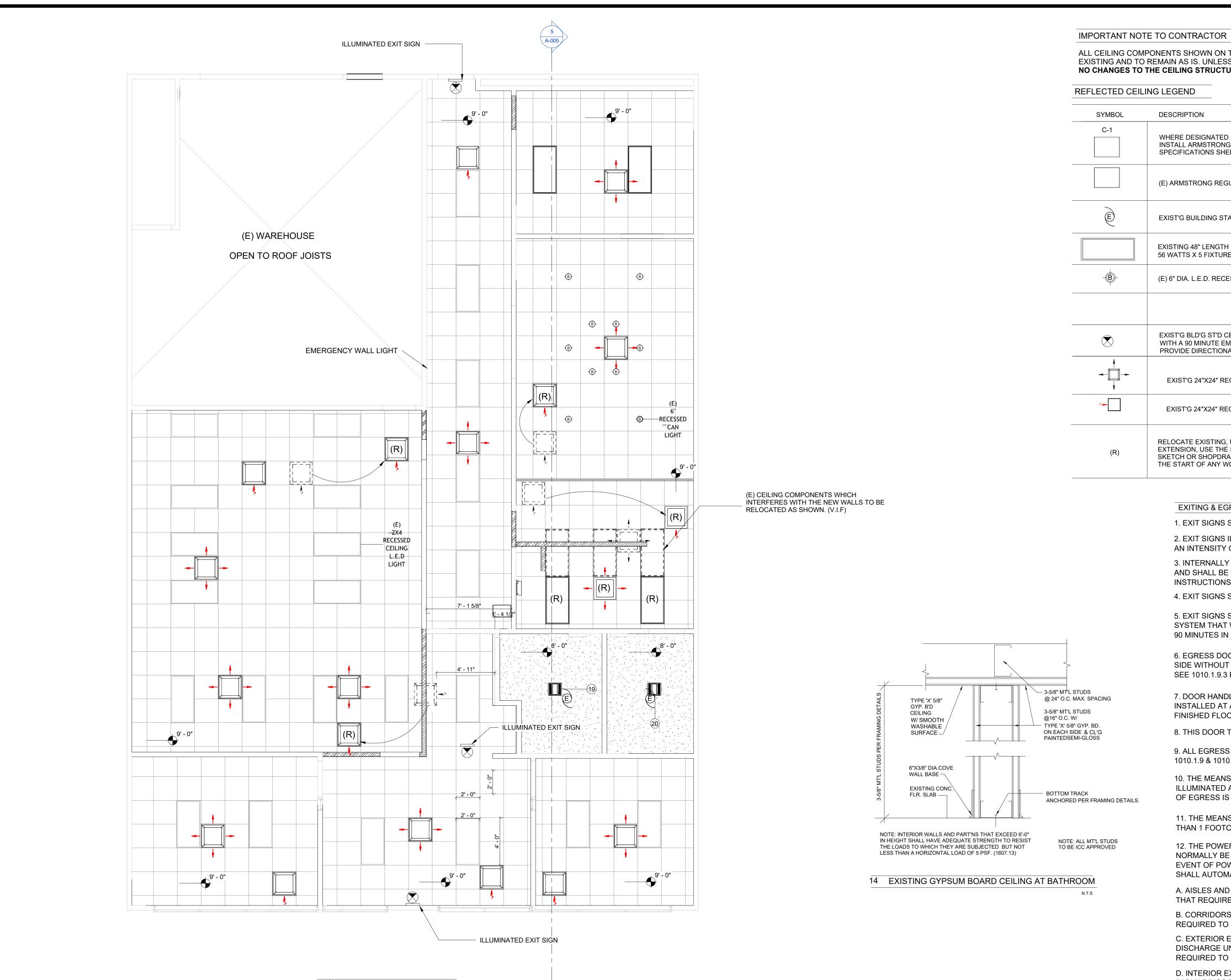
Compatta and Prima use the same enrobing attachment, preserving the

The continuous tempering cycle in Compatta is controlled by a customprogrammed dedicated CPU that monitors and adjusts heating and cooling automatically within a very narrow range based on the set melting and tempering points. The working bowl is heated by thermoelectric induction and the tempering pipe is cooled directly by the refrigerant gas, delivering fast response times, precise control, and reduced energy

The auger in the Compatta's tempering pipe can be eversed to empty it, reducing the amount of time required to restart the tempering cycle or to change chocolate. A removable auger for cleaning is a standard feature, as is a pedal-operated electronic depositor with user-selectable time and repetitions (up to 9) for filling molds and other uses.







1 REFLECTED CEILING PLAN

ALL CEILING COMPONENTS SHOWN ON THIS PLAN INCLUDING AIR REGISTERS & LIGHT FIXTURES ARE EXISTING AND TO REMAIN AS IS. UNLESS NOTED OTHERWISE. (V.I.F) NO CHANGES TO THE CEILING STRUCTURE IS PART OF THIS PROPOSED TENANT IMPROVEMENT.

WHERE DESIGNATED IN THE ROOM FINISH SCHEDULE C-1, CONTRACTOR TO PROVIDE AND INSTALL ARMSTRONG CLEAN ROOM VL #870, COLOR: WHITE; OR APPROVED EQUAL PER SPECIFICATIONS SHEET A-003.00

(E) ARMSTRONG REGULAR CEILING TILE, 24 IN W X 24 IN L EXISTING GRID TO REMAIN AS IS.

EXIST'G BUILDING STANDARD RECESSED EXHAUST FAN ACTIVATED BY LIGHT SWITCH.

EXISTING 48" LENGTH LITHONIA RECESSED MT'D L.ED. MINI-STRIP @9'-0" A.F.F. 56 WATTS X 5 FIXTURES= 280 TOTAL WATTS.

(E) 6" DIA. L.E.D. RECESSED DOWNLIGHT

EXIST'G BLD'G ST'D CEILING MOUNTED ILLUMINATED EXIT SIGN WITH A 90 MINUTE EMERGENCY BATTERY BACKUP SYSTEM. PROVIDE DIRECTIONAL ARROWS AS REQUIRED.

EXIST'G 24"X24" RECESSED CL'G MT'D HVAC SUPPLY DIFFUSER TO REMAIN (V.I.F)

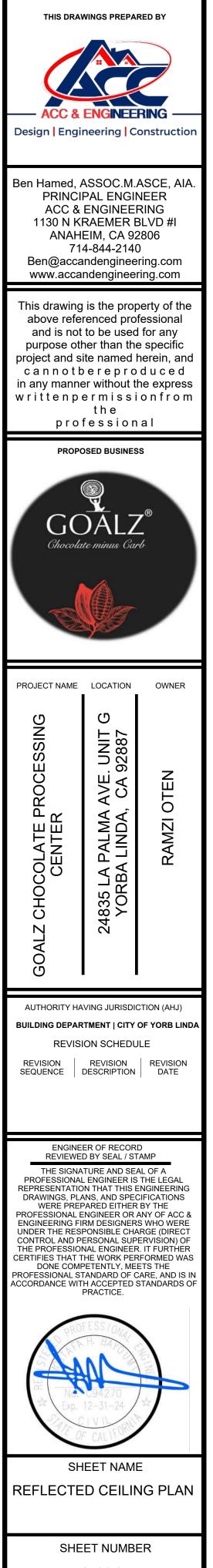
EXIST'G 24"X24" RECESSED CL'G MT'D HVAC RETURN DIFFUSER TO REMAIN (V.I.F)

RELOCATE EXISTING, USE THE EXISTING CONNECTORS, IF ANY OF THE CONNECTIONS NEED EXTENSION, USE THE SAME KIND OF MATERIAL & SUBMIT TO THE ENGINEER PRODUCT DATA SHEET, SKETCH OR SHOPDRAWING SHOWING THE METHOD & MATERIALS USED IN THE EXTENSION PRIOR THE START OF ANY WORK . (V.I.F)

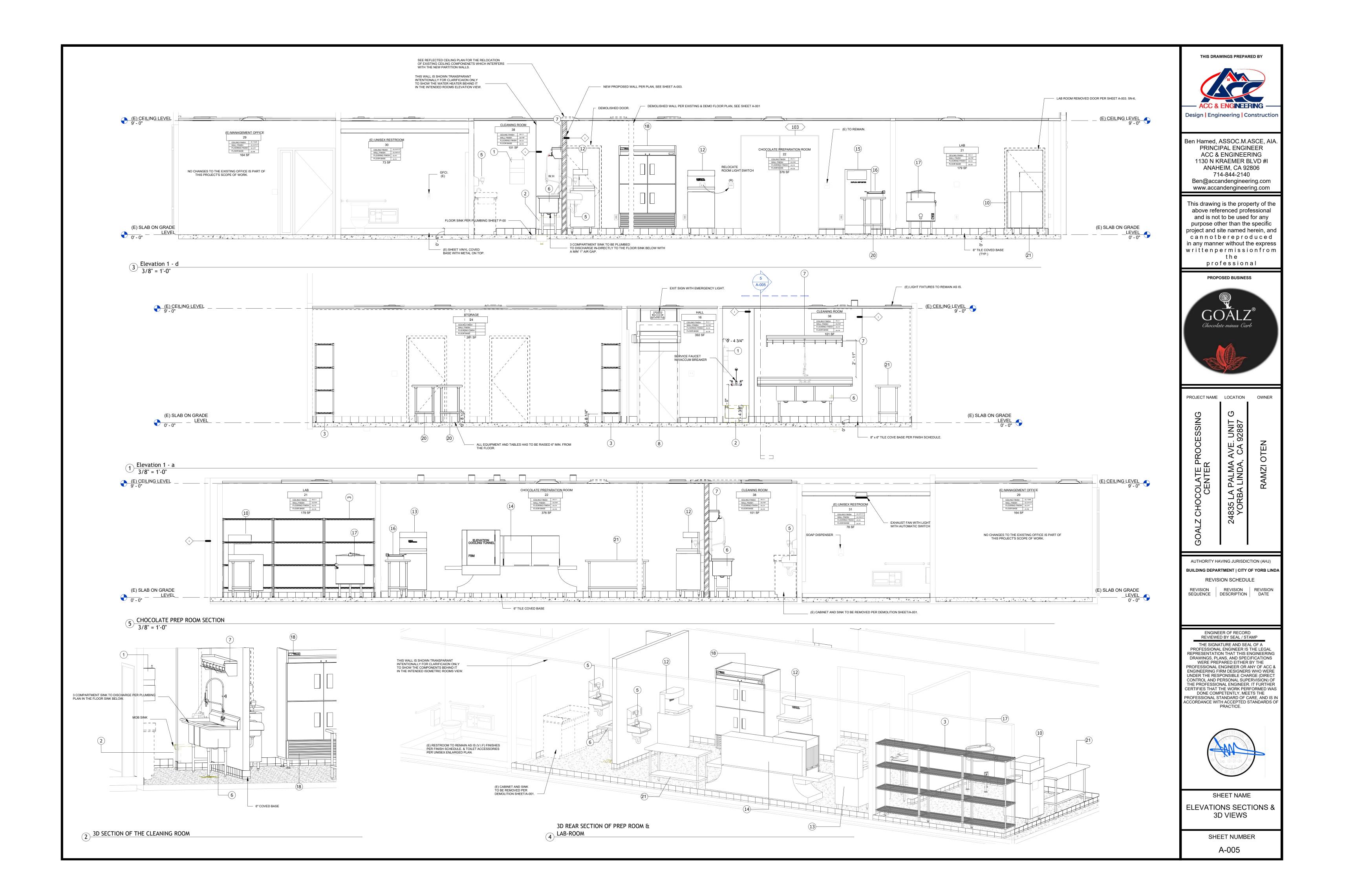
### **EXITING & EGRESS NOTES**

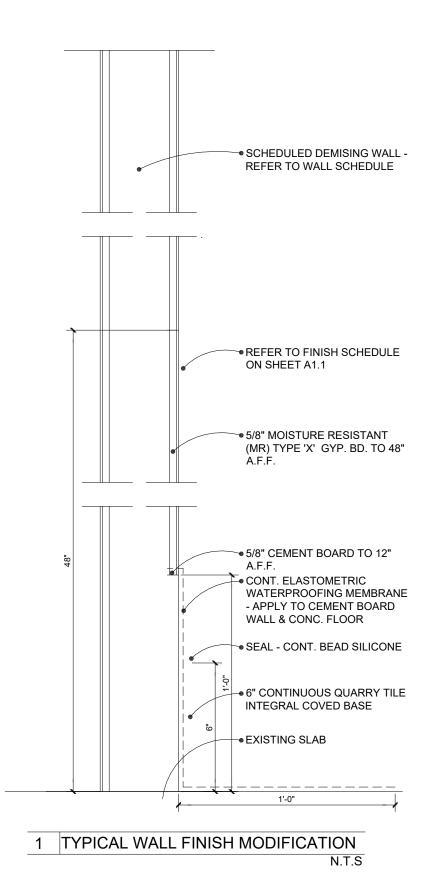
1. EXIT SIGNS SHALL BE INTERNALLY OR EXTERNALLY ILLUMINATED.

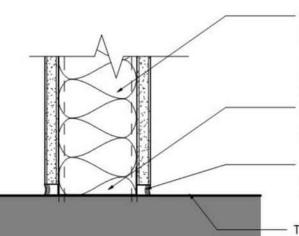
- 2. EXIT SIGNS ILLUMINATED BY AN EXTERNAL SOURCE SHALL HAVE AN INTENSITY OF NOT LESS THAN 5 FOOT CANDLES (54 LUX).
- 3. INTERNALLY ILLUMINATED SIGNS SHALL BE LISTED AND LABELED AND SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER **INSTRUCTIONS AND SECTION 2702. 1013.5**
- 4. EXIT SIGNS SHALL BE ILLUMINATED AT ALL TIMES. 1013.3
- 5. EXIT SIGNS SHALL BE CONNECTED TO AN EMERGENCY POWER SYSTEM THAT WILL PROVIDE AN ILLUMINATION OF NOT LESS THAN 90 MINUTES IN CASE OF PRIMARY POWER LOSS. 1013.6.3
- 6. EGRESS DOORS SHALL BE READILY OPERABLE FROM THE EGRESS SIDE WITHOUT THE USE OF A KEY OR SPECIAL KNOWLEDGE OR EFFORT. SEE 1010.1.9.3 FOR EXCEPTIONS.
- 7. DOOR HANDLES, LOCK, AND OTHER OPERATING DEVICES SHALL BE INSTALLED AT A MINIMUM OF 34" AND A MAXIMUM OF 48" ABOVE THE FINISHED FLOOR.
- 8. THIS DOOR TO REMAIN UNLOCKED WHEN BUILDING IS OCCUPIED.
- 9. ALL EGRESS DOOR OPERATION SHALL ALSO COMPLY WITH SECTION 1010.1.9 & 1010.1.9.12.
- 10. THE MEANS OF EGRESS, INCLUDING THE EXIT DISCHARGE, SHALL BE ILLUMINATED AT ALL TIMES THE BUILDING SPACE SERVED BY THE MEANS OF EGRESS IS OCCUPIED.
- 11. THE MEANS OF EGRESS ILLUMINATION LEVEL SHALL NOT BE LESS THAN 1 FOOTCANDLE AT THE WALKING SURFACE.
- 12. THE POWER SUPPLY FOR MEANS OF EGRESS ILLUMINATION SHALL NORMALLY BE PROVIDED BY THE PREMISES ELECTRICAL SUPPLY. IN THE EVENT OF POWER SUPPLY FAILURE, AN EMERGENCY ELECTRICAL SYSTEM SHALL AUTOMATICALLY ILLUMINATE THE FOLLOWING AREAS:
- A. AISLES AND UNENCLOSED EGRESS STAIRWAYS IN ROOMS AND SPACES THAT REQUIRE TWO OR MORE MEANS OF EGRESS.
- B. CORRIDORS, EXIT ENCLOSURES AND EXIT PASSAGEWAYS IN BUILDINGS REQUIRED TO HAVE 2 OR MORE EXITS.
- C. EXTERIOR EGRESS COMPONENTS AT OTHER THAN THE LEVEL OF EXIT DISCHARGE UNTIL EXIT DISCHARGE IS ACCOMPLISHED FOR BUILDINGS REQUIRED TO HAVE MORE THAN TWO OR MORE EXITS.
- D. INTERIOR EXIT DISCHARGE ELEMENTS, AS PERMITTED IN SECTION 1028.1, IN BUILDINGS REQUIRED TO HAVE TWO OR MORE EXITS.
- E. EXTERIOR LANDINGS, AS REQUIRED BY SECTION 1010.1.6, FOR EXIT DISCHARGE DOORWAYS IN BUILDINGS REQUIRED TO HAVE TWO OR MORE EXITS.



A-004





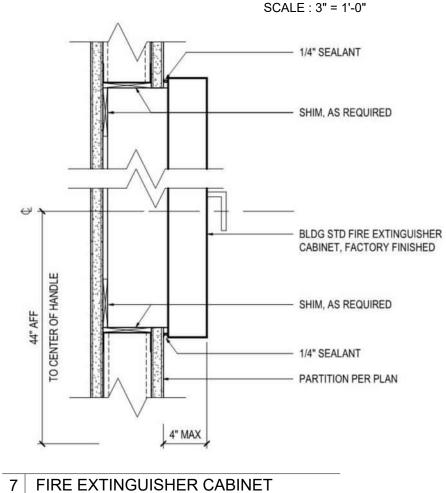


MTL STUD W/ (1) GA MTL STUD W/ (1) LAYER 5/8" GYP, APPLIED VERT. AND AATTACHED WITH #6 TYPE S 1 1/8" SH SCREWS, MIN 1" EMBEDDMENT @ 18" AROUND PERIMETER AND 12" OC @ INTERMEDIATE STUDS AND PER CBC TABLE 2506.2 AND ICC #ER-4943P BOTTOM TRACK TO BE ANCHORED TO SLAB W/ 0.145 SHOT PINS. EMBED 1" MIN @24" O.C., 6" MAX FROM ENDS PER ICC ESR-1752 CONTINUOUS ACOUSTICAL SEALANT BOTH

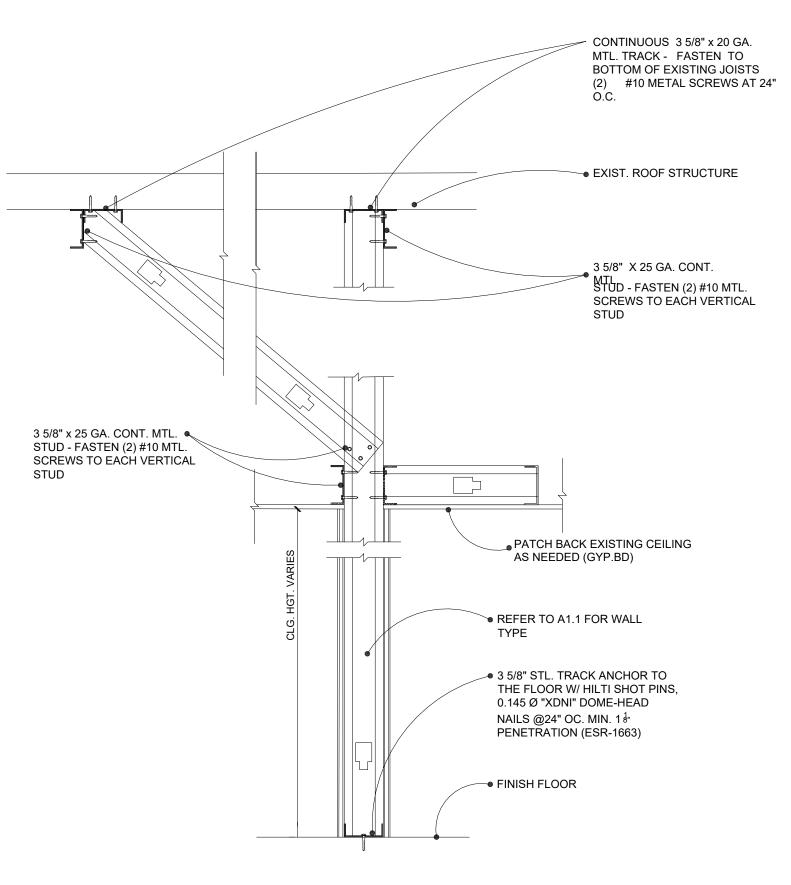
SIDES AT NON-RATED PARTITION AND FIRE SEALANT AT RATED PARTITION.

TOP OF STRUCTURAL SLAB

BOTTOM TRACK AT TYPICAL WALL

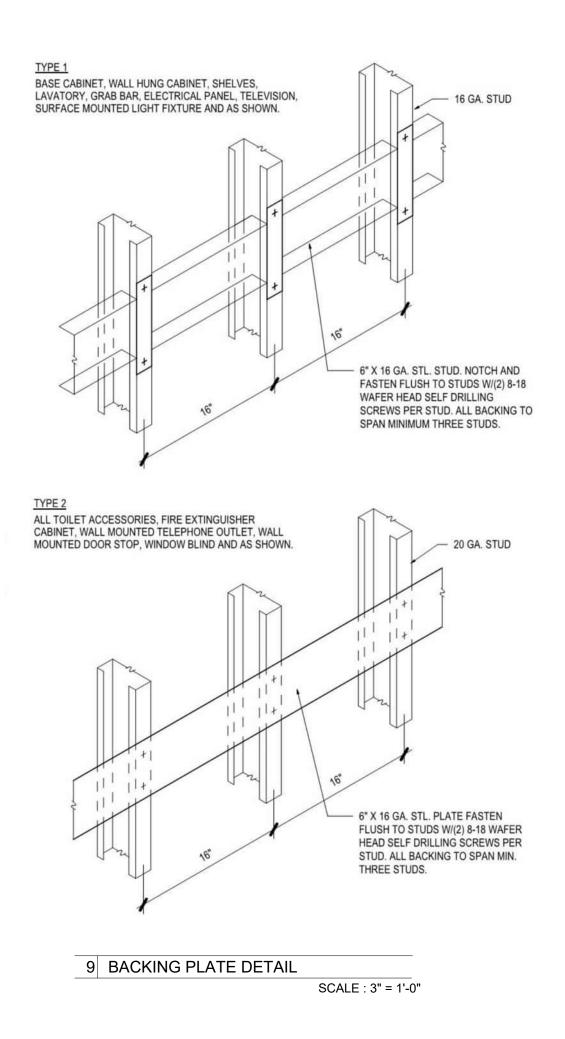


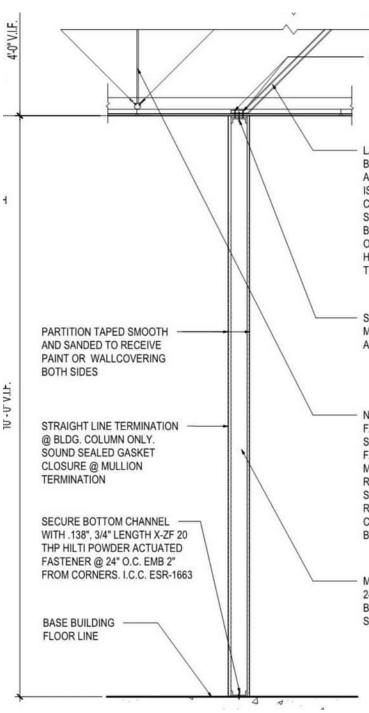
SCALE : 3" = 1'-0"



3 TYPICAL WALL FRAMING DETAIL

1 1/2" = 1'-0"





4 INTERIOR WALL ALTERNATIVE FRAMING DETAIL

USG - SA923 "DRYWALL/STEEL FRAMED SYSTEM"

Stud design.	Stud width	Stud spacing	Allow. defl.	Partition, one layer	Partition, two layers	Furring, on layer
25 gauage	(.0179 min.	)		]	]	]
158ST25	1 5/8"	16"	L/120 L/240 L/360	10'9"f 9'6"d 8'3"d	10'9"d 10'6"d 9'0"d	10'3"d 8'3"d 7'3"d
		24"	L/120 L/240 L/360	8'9"f 8'3"d 7'3"d	8'9"f 8'9"f 8'0"d	8'9"f 7'3"d 6'3"d
212ST25	2 1/2"	16"	L/120 L/240 L/360	13'9"f 12'6"d 10'9"d	13'9"f 13'6"d 11'9"d	13'9"d 11'0"d 9'9"d
		24"	L/120 L/240 L/360	11'3"f 10'9"d 9'6"d	13'3"f 11'3"f 10'3"d	11'3"f 9'9"d 8'6"d
358ST25	3 5/8"	16"	L/120 L/240 L/360	16'9"f 16'0"d 14'0"d	16'9"f 16'9"f 14'9"d	16'9"f* 14'6"d* 12'9"d*
		24"	L/120 L/240 L/360	13'6"f 13'6"f 12'3"d	13'6"f 13'6"f 13'0"d	13'6"f* 12'9"d* 11'0"d
20 gauage	(.0329 min.	)				
212ST20	2 1/2"	16"	L/120 L/240 L/360	17'9"d 14'0"d 12'3"d	18'6"d 14'9"d 13'0"d	16'6"d* 13'0"d* 11'6"d
		24"	L/120 L/240 L/360	15'6"d 12'3"d 10'9"d	16'3"f 13'0"d 11'3"d	14'6"d* 11'6"d 10'0"d
358ST20	3 5/8"	16"	L/120 L/240 L/360	23'0"d 18'3"d 16'0"d	24'0"d 19'0"d 16'6"d	21'9"d* 17'3"d* 15'0"d*
		24"	L/120 L/240 L/360	20'0"d 16'0"d 14'0"d	20'9"f 16'6"d 14'6"d	19'0"d* 15'0"d* 13'3"d

USG FOOTNOTE:

LIMITING HEIGHT FOR 1/2" OR 5/8" THICK GYPSUM PANELS AND 5 PSF UNIFORM LOAD PERPENDICULAR TO PARTITION OR FURRING. USE ONE-LAYER HEIGHTS FOR UNBALANCED ASSEMBLIES; USE TWO-LAYER HEIGHTS FOR MULTI-LAYER ASSEMBLIES. FOR FURRING, STUD ATTACHED TO TOP AND BOTTOM RUNNERS AND FREE-STANDING UP TO 12-FT. HEIGHT. \*STUDS EXCEEDING 12-FT. HEIGHT REQUIRE MID-HEIGHT ANCHOR TO EXTERIOR WALL. ASSEMBLIES WITHOUT FACE PANELS AND CHASE WALL PARTITIONS REQUIRE VERTICAL CROSS BRACES 4FT. O.C. MAX. LIMITING CRITERIA d-DEFLECTION, f-BENDING STRESS, v-END REACTION SHEAR. CONSULT LOCAL CODE AUTHORITY FOR LIMITING CRITERIA.

IMPORTANT: THE "TYPICAL" PHYSICAL AND STRUCTURAL PROPERTIES AND APPLICABLE TABLES PUBLISHED IN THIS FOLDER REPRESENT CHARACTERISTICS AND/OR STEEL STUDS CURRENTLY AVAILABLE FROM A GROUP OF STEEL STUD MANUFACTURES. CONSULT STUD MANUFACTURE'S PHYSICAL AND STRUCTURAL PROPERTIES, STUD THICKNESSES AND LIMITING HEIGHT TABLES TO DETERMINE FINAL STUD SELECTION.

NOTE: GENERAL CONTRACTOR TO PROVIDE ALTERNATE OR EQUAL PRODUCT MATERIAL SPECIFICATION IF USG SA923 "DRYWALL/STEEL FRAMED SYSTEM" IS NOT UTILIZED FOR THIS PROJECT.

10 STUD FRAMING CHART

- #10 SCREW TYP.

LATERAL BRACING TO BE EFFECTED BY 2 1/2"x25 GA. (USG #212ST25), A.S.T.M. C645 MATERIAL. THE BRACE IS TO BE ATTACHED TO TOP OF CHANNEL WITH #10 SHEET METAL SCREWS @ 4'-0" O.C. STAGGERED. BRACE TO BE PLACED AT AN ANGLE OF 45 DEGREES TO THE HORIZONTAL PLANE OF CEILING, TYP.

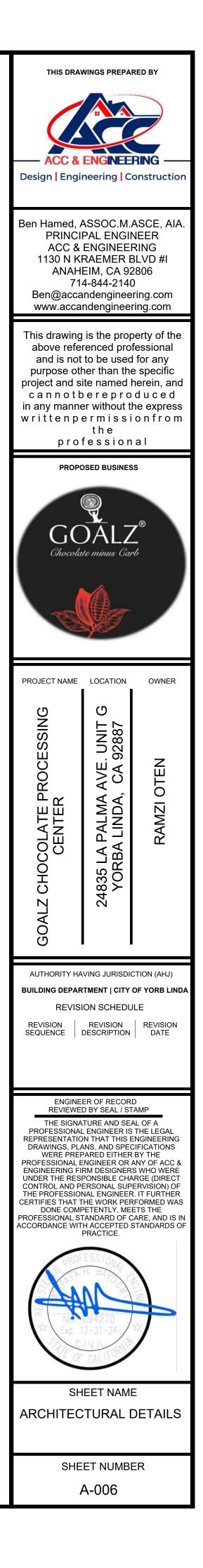
SECURE TOP CHANNEL WITH METAL SCREWS TO CHANNEL ABOVE CEILING GRID

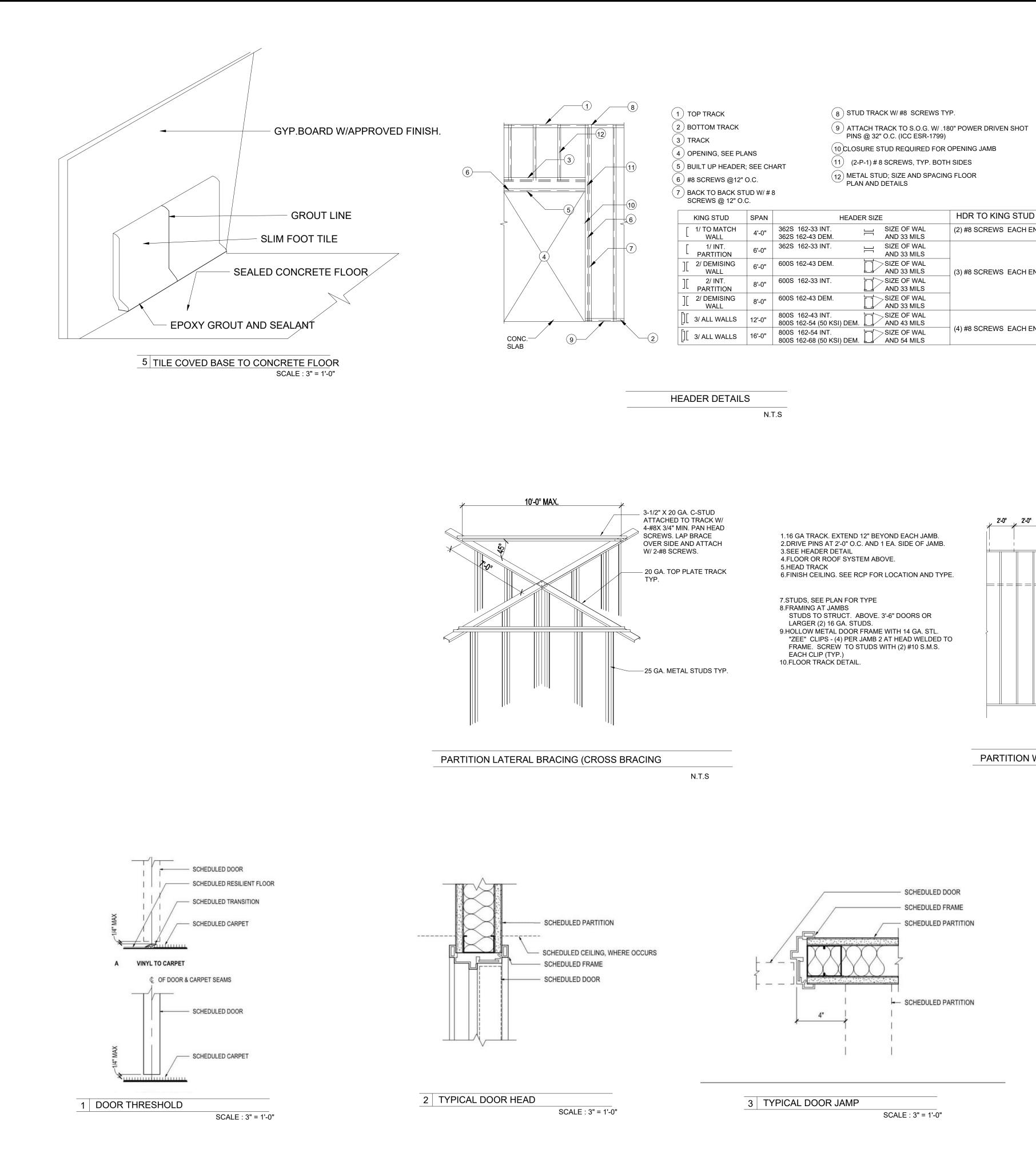
NONCOMPRESSIBLE STRUT FASTENED TO THE MAIN RUNNER SHALL BE EXTENDED TO AND FASTENED TO THE STRUCTURAL MEMBERS SUPPORTING THE ROOF OR FLOOR ABOVE. THE STRUT SHALL BE ADEQUATE TO RESIST THE VERTICAL COMPONENT INDUCED BY THE BRACING WIRES

METAL STUDS (USG #212ST25) @ 24" O.C., U.O.N. WITH 5/8" GYPSUM BOARD, BOTH SIDES. GYP. BD. SHALL BE APPLIED VERTICALLY

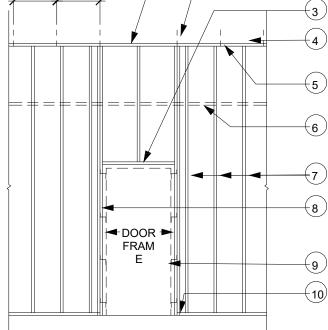
SCALE : 3" = 1'-0"

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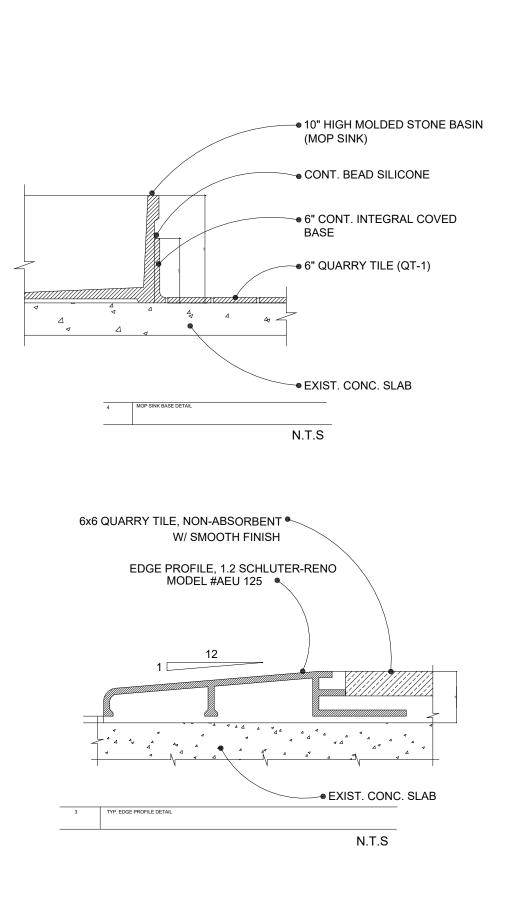


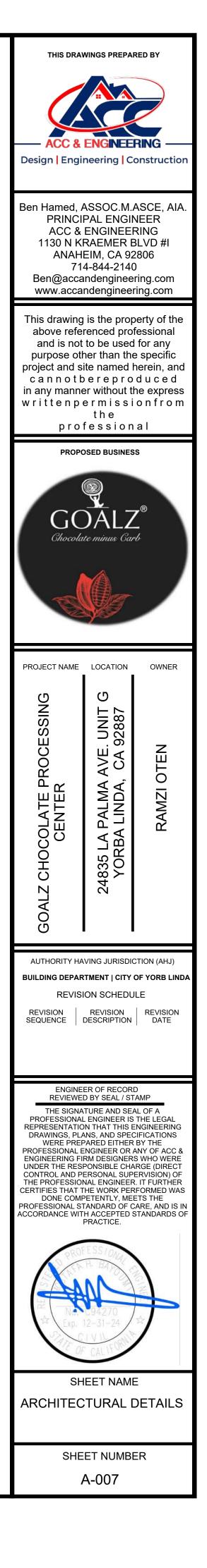
KING STUD	SPAN	HEADE	R SIZE	HDR TO KING STUD
[ 1/ TO MATCH WALL	4'-0"	362S 162-33 INT. 362S 162-43 DEM.	SIZE OF WAL AND 33 MILS	(2) #8 SCREWS EACH END
[ 1/ INT. PARTITION	6'-0"	362S 162-33 INT.	SIZE OF WAL AND 33 MILS	
][ 2/ DEMISING WALL	6'-0"	600S 162-43 DEM.	SIZE OF WAL AND 33 MILS	(3) #8 SCREWS EACH END
][ 2/ INT. PARTITION	8'-0"	600S 162-33 INT.	SIZE OF WAL AND 33 MILS	
][ 2/ DEMISING WALL	8'-0"	600S 162-43 DEM.	SIZE OF WAL AND 33 MILS	
[][ 3/ ALL WALLS	12'-0"	800S 162-43 INT. 800S 162-54 (50 KSI) DEM.	SIZE OF WAL AND 43 MILS	
[][ 3/ ALL WALLS	16'-0"	800S 162-54 INT. 800S 162-68 (50 KSI) DEM.	SIZE OF WAL AND 54 MILS	(4) #8 SCREWS EACH END



PARTITION WALL FRAMING CRITERIA

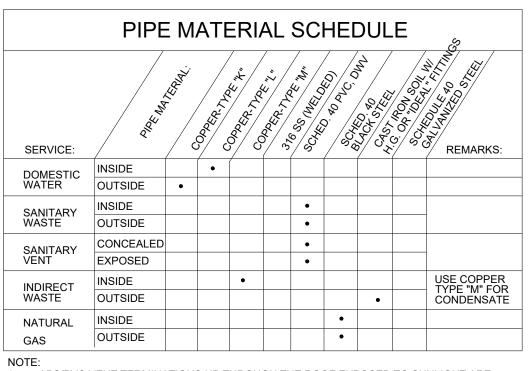
N.T.S





### PLUMBING LEGEND

SYMBOL	ABBR.	DESCRIPTION
	— GW	GREASE WASTE BELOW FLOOR
	– S OR W	SOIL OR WASTE BELOW FLOOR
	- V	VENT
	– CW	DOMESTIC COLD WATER
	- HW	DOMESTIC HOT WATER
HWR	– HWR	DOMESTIC HOT WATER RETURN
G	— G	LOW PRESSURE GAS
CD	- CD	PRIMARY CONDENSATE DRAIN
XSS	– XSS	EXISTING WASTE/SANITARY SEWER
XGW	– XGW	EXISTING GREASE WASTE
XCW	– XCW	EXISTING COLD WATER
XG	— XG	EXISTING GAS
XHW	– XHW	EXISTING HOT WATER
	– FW	FILTERED WATER
χ-	T&P	TEMPERATURE & PRESSURE
l	WCO	WALL CLEANOUT
φ	FCO	FLOOR CLEANOUT
	SOV	SHUT-OFF VALVE
	C.V.	CHECK VALVE
	PRV	PRESSURE REDUCING VALVE
K	BLV	BALANCING VALVE
K	GSOV	AUTOMATIC GAS SHUT-OFF VALVE
	SOC	SHUT-OFF COCK (GAS)
 K	TMV	TEMPERATURE MIXING VALVE
0	VTR	VENT TO ROOF
•	POC	POINT OF CONNECTION
$\bigcirc$	СР	RECIRCULATION PUMP
-+	CW	COLD WATER STUB-IN/HOSE BIBB
	HW	HOT WATER STUB-IN
	(N)	NEW
	(E)	EXISTING
	(R)	RELOCATED, EXISTING
	ABV	ABOVE
	BEL	BELOW
	CFH	CUBIC FEET PER HOUR
	DN	DOWN
	FF	FINISHED FLOOR ELEVATION
	FLR	FLOOR
	IE	INVERT ELEVATION
	NTS	NOT TO SCALE



ABS/PVC VENT TERMINATIONS UP THROUGH THE ROOF EXPOSED TO SUNLIGHT ARE REQUIRED TO BE PROTECTED BY WATER BASED SYNTHETIC LATEX PAINTS.

### SCOPE OF WORK

TENENT IMPOROVMENT FOR A FOOD RETAIL FACILITY WITH NO ACCESS TO PUBLIC MAIN PLUMBING PIPES ARE EXISTING AND TO REMAIN AS IS UNLESS NOTED OTHERWISE. NEW WATER HEATER, NEW PLUMBING FIXTURES & PIPING CONNECT TO EXISTING SYSTEM.

# PLUMBING SPECIFICATION

- 1.CLEANOUTS PROVIDE CLEANOUTS WITH BRASS SCREW PLUG AT ALL CHANGES OF DIRECTION TO PERMIT ROUTING OF ALL SEWERS. ALL CLEAN OUTS SHALL BE INSTALLED WHERE READILY ACCESSIBLE. THE CONTRACTOR SHALL COORDINATE ALL CLEA OUT LOCATIONS OF EQUIPMENT, CABINETS, ETC., WITH THE ARCHITECT PRIOR TO ANY INSTALLATION.
- 2.VALVES EVERY PLUMBING FIXTURE SHALL BE INDEPENDENTLY VALVED. 3.TESTING
- ALL SEWERS AND WATER PIPING SHALL BE PROPERLY TESTED TO THE SATISFACTION OF THE ARCHITECT AND THE LOCAL BUILDING INSPECTOR. 4.EXCAVATION AND BACK FILLING
- TRENCHES SHALL BE BACK FILLED AND SETTLED BY PUDDLING. NO PIPE SHALL BE LESS THAN 12" BELOW FINISH GRADE. 5.PIPING SUPPORTS
- ALL PIPING TO BE SUPPORTED WITH HANGERS AND BRACKETS WHICH PROVIDE ISOLATION FROM FRAMING. CONTACT BETWEEN PIPE AND SUPPORT TO BE LINED WITH PLASTIC OR FELT.

# ENERGY CONSERVATION STANDARDS

- 1. DOMESTIC HOT WATER SHALL BE INSULATED. HOT WATER PIPING WILL HAVE MINIMUM INSULATION FOR THE FOLLOWING PIPE SIZES:
- PIPE SIZE IN DIAMETE INSULATION THICKNESS 1"~1-1/2" 1-1/2" 2" OR GREATER
- 2. TIME CLOCKS TO BE INSTALLED TO CONTROL ANY HOT WATER CIRCULATIN PUMPS.
- 3. SINKS AND LAVATORY FAUCETS TO BE CERTIFIED BY STATE FOR ENERGY APPLIANCE STANDARD COMPLIANCE.
- 4. LAVATORIES IN RESTROOMS OF PUBLIC FACILITIES SHALL BE EQUIPPED WI OUTLET DEVICES THAT LIMIT THE FLOW OF HOT WATER TO A MAXIMUM OF GPM OR WITH SELF-CLOSING FAUCETS THAT LIMIT DELIVERY TO A MAXIMUI 0.2 GALLONS OF HOT WATER FOR RECIRCULATING SYSTEMS, AND SHALL BE EQUIPPED WITH DEVICES THAT LIMIT THE OUTLET TEMPERATURE TO A MAXIMUM OF 110 °F.
- 5. MAXIMUM FLUSH VOLUMES AND FLOW RATES: WATER CLOSETS: 1.28 GALLON PER FLUSH(BLOWOUT TYPE EXEMPT) 0.125 GALLON PER FLUSH(WALL MOUNTED) URINALS: 0.5 GALLON PER FLUSH(FLOOR MOUNTED) LAVATORY: 0.5 GALLON PER MINUTE 0.2 GALLON PER CYCLE(SELF-CLOSING) KITCHEN FAUCETS: 1.8 GALLON PER MINUTE @ 60 PSI

# CA GREEN BUILDING NOTES

- 5.303.2 PLUMBING FIXTURES SHALL MEET THE MAXIMUM FLOW RATE VALUES SHO IN TABLES A5.303.2.2.
- 5.303.3 WATER CONSERVING PLUMBING FIXTURES AND FITTINGS. PLUMBING FIXTURES (WATER CLOSETS AND URINALS) AND FITTINGS (FAUCETS AND SHOWERHEADS) SHALL COMPLY WITH THE FOLLOWING:
- 5.303.3.1 WATER CLOSETS. THE EFFECTIVE FLUSH VOLUME OF ALL WATER CLOSETS SHALL NOT EXCEED 1.28 GALLONS PER FLUSH. TANK-TYPE WATER CLOSETS SHALL BE CERTIFIED TO THE PERFORMANCE CRITERIA OF THE U.S. EPA WATER SENSE SPECIFICATION FOR TANK-TYPE TOILETS.
- NOTE: THE EFFECTIVE FLUSH VOLUME OF DUAL FLUSH TOILETS IS DEFINED AS TH COMPOSITE, AVERAGE FLUSH VOLUME OF TWO REDUCED FLUSHES AND C FULL FLUSH.
- 5.303.3.2 URINALS. THE EFFECTIVE FLUSH VOLUME OF WALL-MOUNTED URINA SHALL NOT EXCEED 0.125 GALLONS PER FLUSH.THE EFFECTIVE FLUSH VOLU OF FLOOR-MOUNTED URINALS SHALL NOT EXCEED 0.5 GALLONS PER FLUSH.
- 5.303.3.4.1 NONRESIDENTIAL LAVATORY FAUCETS. LAVATORY FAUCETS SHAL HAVE A MAXIMUM FLOW RATE OF NOT MORE THAN 0.5 GALLONS PER MINUTE 60 PSI.
- 5.303.4.2 KITCHEN FAUCETS. KITCHEN FAUCETS SHALL HAVE A MAXIMUM FLO RATE OF NOT MORE THAN 1.8 GALLONS PER MINUTE AT 60 PSI. KITCHEN FAUCETS MAY TEMPORARILY INCREASE THE FLOW ABOVE THE MAXIMUM RAT BUT NOT TO EXCEED 2.2 GALLONS PER MINUTE AT60 PSI, AND MUST DEFAULT TO A MAXIMUM FLOW RATE OF 1.8 GALLONS PER MINUTE AT 60 PSI.
- 5.303.6 PLUMBING FIXTURES AND FITTINGS SHALL BE INSTALLED IN ACCORDANCE WITH THE CALIFORNIA PLUMBING CODE, AND SHALL MEET THE APPLICABLE STANDARDS REFERENCED IN TABLE 1401.1 OF THE CALIFORNIA PLUMBING CODE AND IN CHAPTER 6 OF THIS CODE.

# CONTRACTOR NOTES

FIELD VERIFY ALL EXISTING PLUMBING CONDITIONS PRIOR TO START OF WORK. VERIFIED SCOPE REPRESENTED BUT NOT LIMITED TO THE EXISTING CONDITIONS SIZES AND LOCATIONS OF THE FOLLOWING:

- SANITARY SEWER PIPE VENT PIPE
- WATER SUPPLY PIPING PLUMBING FIXTURES
- HOT WATER PIPE

IN THE EVENT THAT THE PLANS DO NOT REPRESENT FIELD CONDITIONS, CONTAC THE OWNER, ARCHITECT, OR DESIGNATED ENGINEER/DESIGNER PRIOR TO STAR OF ANY WORK.

### **GENERAL NOTES**

N	L	EFORE COMMENCEMENT OF WORK, THE CONTRACTOR SHALL VERIFY THE EXACT OCATIONS, ELEVATIONS AND CHARACTERISTICS OF ALL UTILITIES AND PIPING, AND HALL IMMEDIATELY NOTIFY THE ARCHITECT OF ANY DISCREPANCIES.
۸N	T W	HE PLUMBING SYSTEM DESIGN, INSTALLATION AND MATERIALS SHALL CONFORM TO HE 2022 CPC AND AUTHORITIES HAVING JURISDICTION. IN CASE OF CONFLICTS VITH CODES, DRAWINGS, OR SPECIFICATIONS, THE MOST STRINGENT SHALL REVAIL.
	A	HE DRAWINGS WERE PREPARED WITH THE BEST STRUCTURAL AND RCHITECTURAL INFORMATION AVAILABLE. IT IS UNDERSTOOD THAT EQUIPMENT OCATIONS AND ROUTING OF PIPING MAY VARY FROM THAT SHOWN ON THE PLANS S CONSTRUCTION PROCEEDS. IT IS THE CONTRACTORS RESPONSIBILITY TO:
	а	NOTIFY THE MECHANICAL ENGINEER OF CONSTRUCTION RESTRAINTS WHICH MAKE VARIATIONS FROM THE PLANS NECESSARY.
	b.	COMPLETE ALL WORK INCLUDING THE VARIATIONS WITHOUT CHARGING EXTRAS TO THE BID CONTRACT. COMPLETION OF WORK MEANS THE JOB IS WORKING AND MEETS ALL CITY, COUNTY AND UNIFORM MECHANICAL, PLUMBING AND BUILDING CODE REQUIREMENTS.
D	С	HESE DRAWINGS DO NOT INCLUDE ALL NECESSARY SAFETY REQUIREMENTS. ONTRACTOR TO COMPLY TO THE SAFETY REQUIREMENTS SET FORTH BY THE OCAL AUTHORITIES HAVING JURISDICTION.
	5. T D	HE CONTRACTOR TO NOTE THAT THESE DRAWINGS ARE ESSENTIALLY IAGRAMMATIC TO THE EXTENT THAT MANY OFFSETS, BONDS, UNIONS, SPECIFIC ITTINGS AND EXACT LOCATIONS ARE NOT INDICATED.
	D O E S	HE PLUMBING CONTRACTOR SHALL PROVIDE THE WATER, SEWER AND STORM RAIN SYSTEMS AND CONNECT TO EACH DESIGNATED POINT OF CONNECTIONS 5'-0" OUTSIDE OF THE BUILDING. ALL SEWER SYSTEM SHALL MEET THE REQUIRED INVERT LEVATION SHOWN ON THE CIVIL DRAWINGS. PIPING BEYOND THIS POINT IS PECIFIED UNDER ANOTHER SECTION OF THE SPECIFICATION AND SHALL BE AS HOWN ON THE CIVIL DRAWINGS.
/E A	S P	HE OWNER SHALL MAKE ALL ARRANGEMENTS WITH UTILITY COMPANIES FOR ERVICE AND CONNECTION AND SHALL MAKE APPLICATION FOR SERVICE AND ERMITS AND SHALL PAY ALL FEES AND CHARGES INCLUDING THE COST OF VAULTS ND METERS.
	E	LL PLUMBING WORK SHALL BE INSTALLED SO AS TO AVOID INTERFERENCE WITH LECTRICAL EQUIPMENT, MECHANICAL EQUIPMENT AND STRUCTURAL FRAMING, KYLIGHT, ETC.
IG	P	HE CONTRACTOR SHALL COORDINATE THE LOCATION OF ALL CEILING ACCESS ANELS WITH THE ARCHITECTURAL REFLECTED CEILING PLAN AND ELECTRICAL IGHTING PLAN.
ITH 0.5	W D	ORDINATE ALL LOCATIONS, SIZES AND ELEVATIONS OF ALL SLEEVES THROUGH VALLS, BEAMS, SLABS AND FOOTING WITH STRUCTURAL AND ARCHITECTURAL RAWINGS. ALL PIPES SLEEVING THROUGH FOOTINGS SHALL HAVE A SLEEVE IAMETER OF TWO PIPE SIZES OVER THE PIPE PASSING THROUGH THE FOOTING.
M OF E	A	NTRACTOR MUST NOT CUT, RELOCATE, COMPROMISE, DAMAGE OR OTHERWISE LTER THE ROOF STRUCTURE. THE JOISTS WHICH OCCUR THROUGHOUT ALL THE IECH. BAY AREAS LIKE WISE MUST NOT BE ALTERED.
	Lu A	FORE FABRICATION OR INSTALLATION, THE CONTRACTOR SHALL VERIFY EXACT OCATIONS OF ALL MECHANICAL EQUIPMENT AND EQUIPMENT PROVIDED UNDER NOTHER SECTION OF SPECIFICATIONS. EXACT ROUGH-IN LOCATIONS AND EQUIREMENTS SHALL BE COORDINATED IN FIELD.
	В	NNECTION BETWEEN INCOMPATIBLE MATERIALS ABOVE GRADE AND INSIDE UILDING SHALL BE MADE WITH TWO (2) DIELECTRIC UNIONS SEPARATED BY A WELVE INCH (12") SECTION OF RED BRASS PIPE.
		- FLOOR AND WALL PENETRATIONS MUST BE SEALED WATERTIGHT AND VERMIN ROOF.
	В	LEXTERIOR GAS COCKS, WATER SHUTOFF VALVES AND/OR SEWER CLEAN OUTS ELOW GROUND SHALL BE INSTALLED IN YARD BOXES WITH THE COVERS CONSPICUOUSLY MARKED "GAS", "WATER", AND "SEWER" RESPECTIVELY.
		ACT LOCATIONS AND MOUNTING HEIGHTS OF PLUMBING FIXTURES SHALL BE IBTAINED FROM THE ARCHITECTURAL DRAWINGS.
	M H A	E ARCHITECTURAL DRAWINGS FOR HANDICAP FIXTURE LOCATIONS AND IOUNTING HEIGHTS. INSULATE ALL EXPOSED HOT WATER AND DRAIN PIPING BELOW ANDICAP LAVATORIES AND SINKS WITH INSULATING TAPE AND OFFSET P-TRAP IGAINST WALL. ALL FLUSH VALVES FOR HANDICAP SHALL BE LOCATED ON HANDICAP IHEELCHAIR ACCESS SIDE OF STALL.
	18.ALI	L WASTE, SOIL AND VENT PIPING SHALL SLOPE AT 2% UNLESS OTHERWISE NDICATED.
	19.ALI S	_ VALVES, TRAP PRIMERS, WATER HAMMER ARRESTORS OR OTHER EQUIPMENT HOWN IN WALLS OR ABOVE NON-ACCESSIBLE CEILINGS SHALL BE INSTALLED EHIND AN ACCESS PANEL.
ALS ME L	F. D B	UMBING CONTRACTOR SHALL VISIT THE JOB SITE PRIOR TO BASE BID. HE SHALL AMILIARIZE HIMSELF WITH ALL EXISTING CONDITIONS AND FUTURE WORK TO BE ONE. HE SHALL INCLUDE ALL HIS SITE INFORMATION AND CONDITIONS WITHIN HIS ASE BID. HE SHALL BE RESPONSIBLE FOR COMPLETE AND FULLY FUNCTIONING LUMBING SYSTEMS.
)W	A	UMBING CONTRACTOR SHALL COORDINATE COMPLETE PLUMBING INSTALLATION ND REQUIREMENTS PRIOR TO BASE BID WITH ALL LOCAL DISTRICTS AND OVERNING AUTHORITIES. INCLUDE ALL FINDINGS WITHIN THE BASE BID.
TE, T -	0	OVIDE RECIRCULATION PUMP FOR HOT WATER WHEN THE HOT WATER PIPE IS IVER 50'. NON-RECIRCULATED FIXTURE BRANCH PIPING SHALL NOT EXCEED 25 FT CPC 613.6).
Ξ	23.PR	OVIDE TRAP SEAL PRIMER FOR FLOOR DRAIN SUBJECT TO INFREQUENT USE.
	S P	L PLUMBING, AND GAS LINES SHALL BE CONCEALED WITHIN THE BUILDING TRUCTURE TO AS GREAT EXTENT AS POSSIBLE. ALL EXPOSED CONDUITS, LUMBING, ETC. SHALL BE INSTALLED AT LEAST 6" OFF FLOOR AND 3/4" FROM WALLS SING STANDOFF BRACKETS.
		UMBING OR PIPING CANNOT BE INSTALLED ACROSS ANY AISLE WAY, TRAFFIC REA OR DOOR OPENING.
		ILTIPLE RUNS OR CLUSTERS OF PIPELINES SHALL BE FURRED IN OR ENCASED IN N APPROVED SEALED ENCLOSURE.
S,	F	L LIQUID WASTE SHALL BE DRAINED BY MEANS OF INDIRECT WASTE PIPES INTO A LOOR SINK. FLOOR SINKS ARE TO BE INSTALLED FLUSH WITH THE FINISHED FLOOR URFACE AND HAVE SUITABLE EASILY REMOVABLE SAFETY COVER GRATES.
		OOR SINK TO BE 50% EXPOSED WHEN NO ACCESS IS PROVIDED FOR CLEANING OR E IN LINE WITH THE FRONT FACE OF ELEVATED FREESTANDING EQUIPMENT.
TT	U	PROVED BACKFLOW PREVENTION DEVICES SHALL BE PROPERLY INSTALLED PSTREAM OF ANY POTENTIAL HAZARD BETWEEN THE POTABLE WATER SUPPLY ND A SOURCE OF CONTAMINATION. HOSES SHALL NOT BE ATTACHED TO A FAUCET R HOSE BIBB UNLESS AN APPROVED BACKFLOW PREVENTER IS PROVIDED.
		L SANITARY SYSTEM MATERIALS SHALL BE LISTED BY AN APPROVED LISTING GENCY.
	31.EA A	CH VENT SHALL RISE VERTICALLY TO A POINT NOT LESS THAN SIX (6) INCHES BOVE THE FLOOD-LEVEL RIM OF THE FIXTURE SERVED BEFORE OFFSETTING ORIZONTALLY OR BEFORE BEING CONNECTED TO ANY OTHER VENT.
	F	CH VENT SHALL TERMINATE NOT LESS THAN 10 FEET FROM, OR AT LEAST 3 FEET ROM, OR NOT LESS THAN 3 FEET ABOVE, ANY OPENABLE WINDOW, DOOR, OPENING, IR INTAKE, OR VENT SHAFT, OR NOT LESS THAN 3 FEET IN EVERY DIRECTION FROM

ANY LOT LINE.

### PLUMBING FIXTURE UNITS LOADS SCHEDU

			۱	NATER LO	AD	WASTE LOA	D			
FIXTURE OR EQUIPMENT TYPE	MARK		WATER FU. PER FIXTURE	COLD WATER F.U	HOT WATER F.U	WASTE F.U PER FIXTURE	TOTAL WASTE FU			
HAND SINK	HS-1	2	2	2	2	2	4 F.U			
MOP SINK	MS-1	1	3	3	3	3	3 F.U			
FLOOR DRAIN	FD-1	2	-	-	-	3	6 F.U			
3 COMP SINK										
COUNTER SINK	CS-2	1	2	2	2	2	2 F.U			
FLOOR SINK	FS-1	1	-	-	-	6	6 F.U			
LAVATORY	LAV-1	1	1	1	1	1	1			
WATER CLOSET	WC-1	1	1	1	0	4	4			
-										
TOTAL	-	-	-	9	8	-	26			

### WATER CALCULATION STREET MAIN TO THE FARTHEST OUTLET

\*\*\* PLUMBING CONTRACTOR TO CONFIRM THE MIN. PRESSURE PRIOR TO START AND REPORT TO ENGINEER \*\* IF IT IS LOWER THAN INDICATED BELOW

70 PSI MAX. 60 PSI MIN.
5 PSI 10 PSI
35PSI

### <u>10FT</u>. HEIGHT ( x 0.434) 4.3 PSI 20 PSI PRESSURE REQUIRED AT FIXTURE(FLUSH TANK) 22.7 PSI MIN. PRESSURE REQUIRED FOR FRICTION LOSS

AVAILABLE PRESSURE FOR FRICTION LOSS:

BUILDING INTERNAL PRESSURE LOSS:

TOTAL LENGTH 150 FT x 1.2 = TOTAL EQUIV.LENGTH (T.E.L.) = 180 FT.

20.7 PSI x 100 + 180 FT. T.E.L. = 11.5 PSI PER 100 FT. USE 8 PSI PER 100 FT.

# WATER HEATER CALCULATIONS

PLUMBING FIXTURE	FLOW RATE (GPH)	NUMBER OF FIXTURES	TOTAL FLOW RATE (GPH)	OPERATING TEMP. ° <b>F</b>					
3 COMP. SINK (S-3)	60 GPH	1	60 GPH	120 °F					
LAVATORIES (LAV-1)	5 GPH	2	10 GPH	105 °F					
MOP SINK (MS-1)	10 GPH 1		10 GPH	140 °F					
HAND SINK (HS-1)	5 GPH	2	10 GPH	120 °F					
EQUIPMENTS PER ANSI ACCREDITED CERT PROG.	N/A	N/A		N/A					
NO EQUIPMENTS IN THIS FACILITY REQUIRES HOT WATER. TOTAL FLOW RATE : 90 GPH = 1.5 GPM									
PEAK DEMAND			65.9 GPH = 1.08 GPM, NEXT AVAILABLE IS 1.5 GPM.						

THE LOCAL HEALTH AGENCY USES A 50°F RISE FOR THEIR CALCULATIONS BASED ON INCOMING WATER TEMPERATURES. THE TANKLESS WATER HEATER PROPOSED FOR THIS FACILITY IS BRADLEY CORP - HL SERIES - COMMERCIAL HEATERS TANKLESS WATER HEATING SOLUTIONS- THAT HAS A MAXIMUM INPUT EQULIVANT TO 199,000 BTU/H. AT A 50°F RISE, THIS WATER HEATER IS ABLE TO PROVIDE THE MINIMUM REQUIRED FLOW RATE WITH 15 KW ON A 240 V POWER INPUT, SEE MANUFACTRUER DATA BELOW.



### kW Calculator HL Series (kW): 5, 6, 10, <mark>15</mark>, 18, 25

												Te	empe	eratu	ire /	∆° <b>F (</b>	°C)												
1			10°	15°	20°	25°	30°	35°	40°	45°	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°	110°	115°	120°	125°	130°	135°	140
1	GPM	L-MIN	(6°)	(8°)	(11°)	(14°)	(17°)	(19°)	(22°)	(25°)	(28°)	(31°)	(33°)	(36°)	(39°)	(42°)	(44°)	(47°)	(50°)	(53°)	(56°)	(58°)	(61°)	(64°)	(67°)	(69°)	(72°)	(75°)	(78
	0.15	0.6	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
	0.25	0.9	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	6
	0.50	1.9	5	5	5	5	5	5	5	5	5	5	5	5	6	6	6	10	10	10	10	10	10	10	10	10	10	10	15
	0.75	2.8	5	5	5	5	5	5	5	5	6	6	10	10	10	10	10	10	10	15	15	15	15	15	15	15	15	15	18
	1	3.8	5	5	5	5	5	6	6	10	10	10	10	10	15	15	15	15	15	15	15	18	18	18	18	25	25	25	25
	1.5	5.7	5	5	5	6	10	10	10	10	15	15	15	15	18	18	18	25	25	25	25	25	25	-	-	-	-	-	
	2	7.6	5	5	6	10	10	15	15	15	15	18	18	25	25	25	25	25					-						
	3	11.3	5	10	10	15	15	18	18	25	25	25	-	-	-			-	-	-	-	-	-	-	-	- 1	+1	-	-
	4	15.1	6	10	15	15	18	25	25	-	141	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	5	18.9	10	15	15	25	25							۲							÷		+	-	+			÷.	
	6	22.7	10	15	18	25	-		-			-		-			-	-					-	-			-	-	
1	7	26.5	15	18	25								-				-			-				-	(	1.	-	(*)	

 Calculate Delta-T (ΔT). Set point temp - coldest ground water temp =  $\Delta T$   $\Delta T = \underline{50^{\circ} F}$ 

2. Select kW required by using chart or formula below. Peak demand in GPM x  $\Delta T$  x .1465 = kW

3. Confirm voltage and phase available on site.

4. Confirm minimum flow.

kW = <u>1.5 x 50 x.1465 = 10.9875</u>, NEXT AVAILABLE IS 15 KW. USE 15 KW Voltage and Phase = 120/240 3 PHASE 4 WIRE

Minimum Flow = 1.5

J	L	E

COLD WATER SIZING										
PIPE SIZE	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"	2-1/2			
GPM	4	9	18	28	48	90	175			
WSFU	4	9	20	30	50	90	180			
BASED ON PRESSURE LOSS OF 8.0 PSI PER 100 FT. MAXIMUM VELOCITY = 8.0 FPS										
		I	HOT WA		NG					
PIPE SIZE	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"	2-1/2			
GPM	4	9	15	21	31	50	98			
WSFU	4	9	20	30	35	50	100			
BASED ON PRESSURE LOSS 7.0 PSI PER 100 FT. MAXIMUM VELOCITY = 5.0 FPS										

### Product Compliance

ETL listed to UL499

ETL listed to CSA-C22.2 No. 88



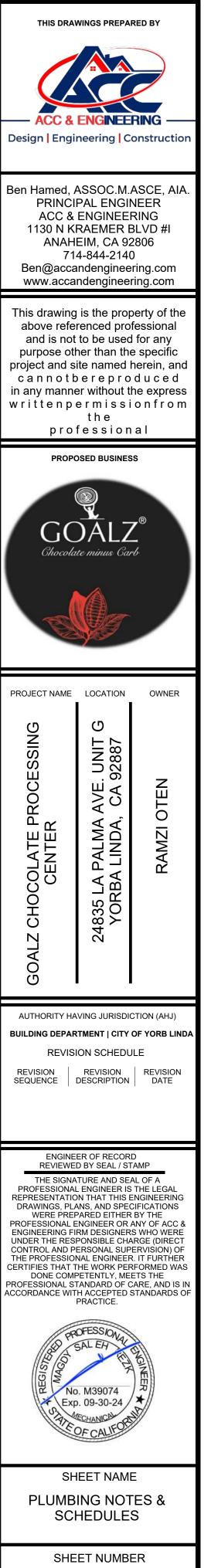
Products marked with the Lead-Free logo comply with the Safe Drinking Water Act (SDWA) requirements of a weighted average of less than 0.25% lead content on wetted surfaces of pipes, pipe fittings, plumbing fittings, and fixtures. 



Standard product selections contained within this document are third party ERTIFIED to NSF/ANSI 372 meeting the Lead-Free content requirement. Any product configured with custom options will be COMPLIANT with NSF/ANSI 372 Certified to NSF/ANSI 372 meeting the Lead-Free content requirement.

ABS Design Assessed intended for product to be installed on an ABS classed vessel, mobile offshore drilling units (MODU), or facility. This is a Tier 2 Approval that states that the product complies with the stated standards and must receive approval by a Surveyor or Engineer for the intended installation.

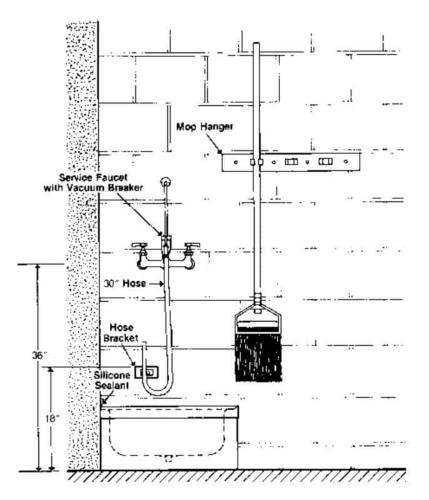
### **HL Series - Commercial Heaters Tankless Water Heating Solutions**



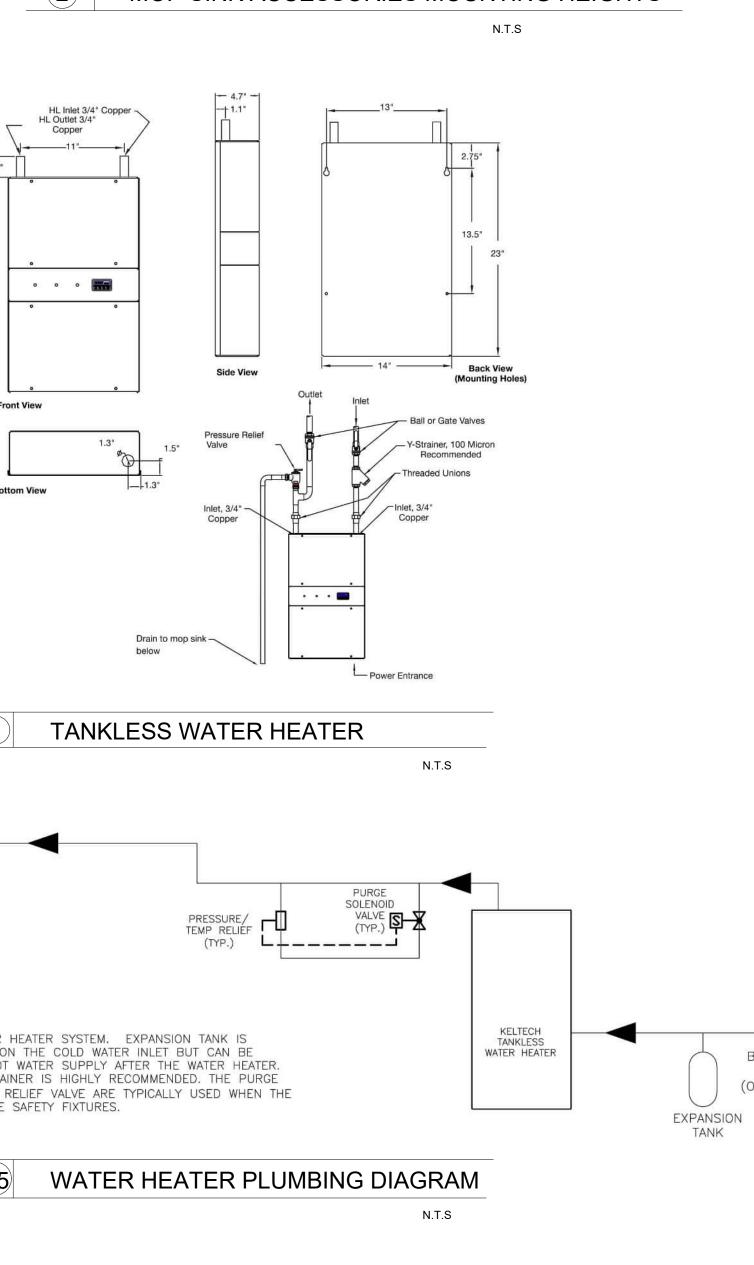
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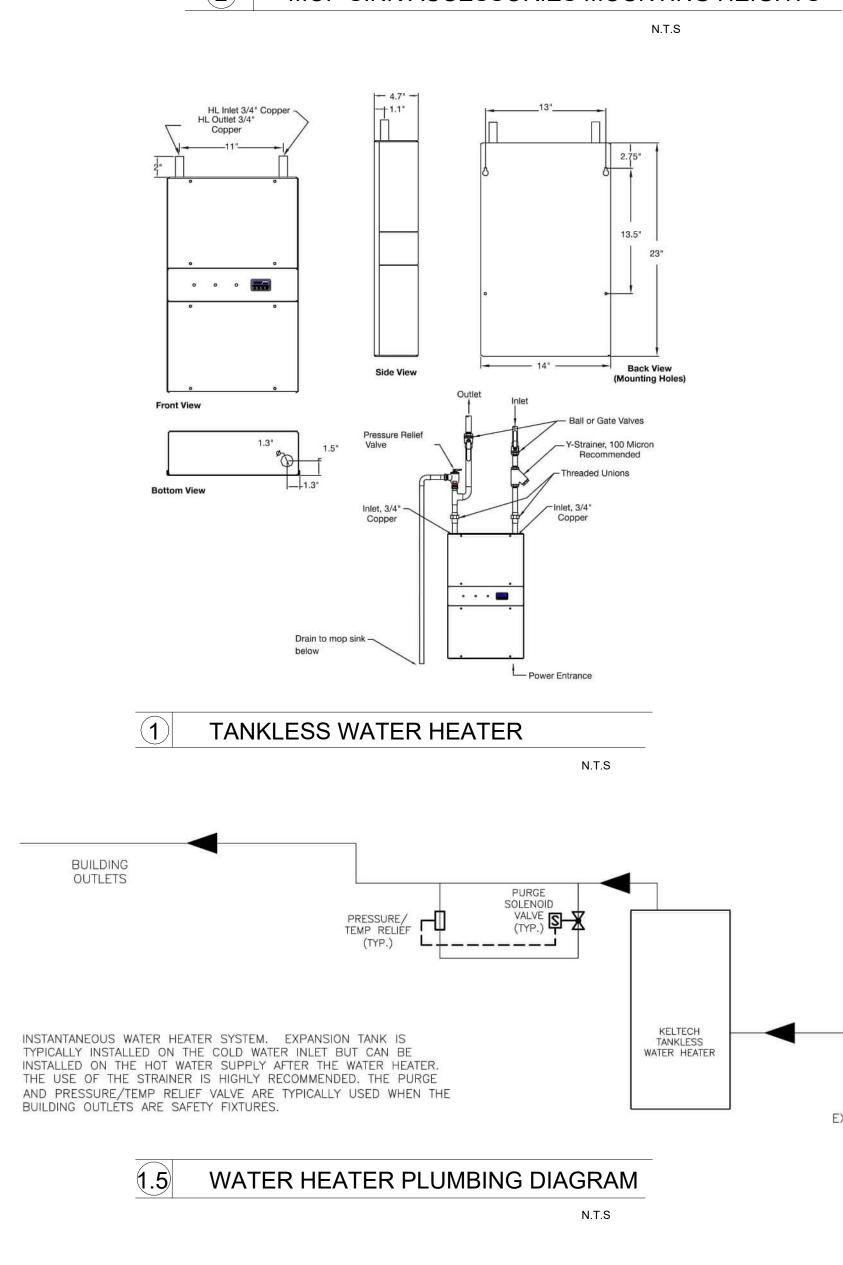
PHASE	PLAN MARK	PLUMBING SYMBOL	FIXTURE	COLD WATER	HOT WATER	WASTE	TRAP	VENT	CONNECTION TYPE	DESCRIPTION
EXISTING TO REMAIN & VERIFY IN FIELD	-		WATER CLOSET (ADA APPROVED)	1/2"	-	4"	INT.	2"	DIRECT	"KOHLER" KINGSTON MODEL. K-4300 WHITE VITREOUS CHINA WALL MOUNTED TOILET WITH ELONGATED BOWL OR APPROVED EQUAL. INCLUDE ZURN Z6000AV-WS1 GPF. INCLUDE MODEL K-4650 ELONGATED OPEN FRONT TOILET SEAT. TOILET SHALL BE ADA. ASME A112.19.2 AND ASME A112.19.6 COMPLIANT.
EXISTING TO REMAIN & VERIFY IN FIELD	-		LAVATORY (ADA APPROVED)	1/2"	1/2"	2"	1- <u>1</u> -	2"	DIRECT	"KOHLER" HUDSON MODEL K-2849 CAST IRON WALL MOUNT LAVATORY OR APPROVED EQUAL INCLUDE (BOLD HOLES) AND OVERFLOW. INCLUDE "KHOLER" TRITION MODEL K74015A BRASS LAVATORY FAUCET WITH POLISHED CHROME FINISH AND AERATOR, POP UP DRAIN, AND WRISTBLADE LEVER HANDLES. LAVATORY AND FAUCET SHALL BE ADA COMPLIANT AND MEET ASME A112.9.1M AND ASME A112.18.1 COMPLIANT.
NEW	5	HS 1	HAND SINK (ADA COMPLIANT)	1/2"	1/2"	2"	1- <u>1</u> -2"	2"	DIRECT	WALL HUNG STAINLESS STEEL HAND SINK OR EQUAL WITH SPLASH GUARD MOUNTED GOOSENECK FAUCET. BASKET DRAIN, P-TRAP AND TAILPIECE. NSF APPROVED. (1.0gpm FLOW RATE)
NEW	6	<b>S3</b> 1	3 COMPARTMENT	1/2"	1/2"	2"	1- <u>1</u> 2"	1- <u>1</u> 2"	INDIRECT	GSW SE18183D THREE COMPARTMENT SINK W/ 18" LEFT&RIGHT DRAINBOARDS. INSTALL W/ FISHER 34479 BACKSPLASH PRE-RINSE FAUCET, 14" ADD-ON FAUCET. 1.15 GPM SPRAY VALVE. EQUIVALENT FIXTURE IS ACCEPTABLE.
EXISTING TO REMAIN & VERIFY IN FIELD			COUNTER TOP MOUNTED SINK	1/2"	1/2"	2"	1- <u>1</u>	1- <u>1</u>	DIRECT	(E) TO REMAIN AS IS - AREA NOT IN SCOPE OF WORK. (V.I.F) - FAUCET UNIT AT THIS SINK HAS IT'S DEDICATED CHROMONIT INSTANT WATER HEATER. SINK NOT CALCULATED IN HOT WATER DEMAND CALCULATION ,
NEW	2	MS 1	MOP SINK	1/2"	1/2"	3"	3"	2"	DIRECT	K-298 ADVANCE TABCO HIGH STAINLESS STEEL W/THREE SIDES SPLASH GUARD, K-240 SERVICE FAUCET* K-242 23" WIDE MOP HANGER K-243 STAINLESS STEEL MOP DRAINAGE TRAY K-244 HOSE AND HANGER K-245 8" X 24" UTILITY SHELF K-246 8" X 36" UTILITY SHELF
NEW	1	WH 1	WATER HEATER	3/4"	3/4"	-	-	-	DIRECT	BRADLEY CORP HL SERIES - COMMERCIAL HEATERS TANKLESS WATER HEATING SOLUTIONS. NEMA 1 ENCLOSURE. 3/4" CONNECTIONS. SEE MANUFACTRUER INSTALLATION INSTRUCTIONS.
NEW	1.5	ET 1	EXPANSION TANK	1/2"	1/2"	-	-	-	DIRECT	NEW "PROFLO" STAINLESS STEEL EXPANSION TANK FOR TNAKLESS HEATERS WATER EXPANSION TANK, MODEL #8511154, MANUFACTURER PART# PFXT1SS STD FACTORY PRE-CHARGE AT 40 PSI, PROVIDE SUPPORT. INSTALL ON THE COLD WATER INLET BELOW THE ISOLATION VALVE BETWEEN THE TANKLESS HEATER AND THE CHECK VALVE
NEW	9	FS 1	FLOOR SINK	1/2" TRAP PRIMER	-	2"	2"	2"	DIRECT	ZURN Z-1902, 12" SQUARE TOP, HALF GRATE COVER AND 8" DEEP DOME STRAIER. EQUIVALENT FIXTURE ACCEPTABLE.
NEW & EXISTING VERIFY EXISTING IN FIELD			TRAP PRIMER	1/2"	-	-	-	-	DIRECT	EXISTING TO REMAIN TRAP PRIMER: (SINGLE DRAWN DISTRIBUTION), "PRECISION PLUMBING PRODUCT, INC" OREGAN #1 PO-500 TRAP PRIMER, PRISTON OPERATED (TO OPERATE LESS THEN 1 PSI PRESSURE DROP), PROVIDE WITH 1/2" CW LINE TO FLOOR DRAIN, ISOLATION VALVE, & STAINLESS STEEL ACCESS PANEL.
EXISTING TO REMAIN & VERIFY IN FIELD		FD 1	FLOOR DRAIN	-	-	2"	2"	1- <u>1</u> 2"	DIRECT	"J.R. SMITH" MODEL #2005Y ROUND TOP FLOOR WITH DUCO CAST IRON BODY WITH FLASHING COLLER, ADJUSTABLE STRAINER HEAD, POLISHED BRONZE STRAINER, 1/2" TRAP PRIMER CONNECTION, AND NO HUB CONNECTION.
EXISTING TO REMAIN & VERIFY IN FIELD			WATER HEATER VACUUM CONTROL VALVE	-	-	-	-	-	DIRECT	"WATER REGULATOR" WATER SERVICE VACUUM RELIEF VALVE, MODEL #N36 M, ORDER #138458-3/4" NPT. OPENS @ LESS THAN 1/2" VACUUM. TESTED & RATED UNDER "ANSI2 21.22." CGA CERTIFIED OR APPROVED EQUAL.
EXISTING TO REMAIN & VERIFY IN FIELD		BF 1	DOUBLE CHECK VALVE BACKFLOW PREVENTER	3/2"	-	-	-	-	DIRECT	EXISTING TO REMAIN "WILKINS" MODEL 95XL DOUBLE CHECK VALVE BACKFLOW PREVENTER. TWO INUNE INDEPENDENT CHECK VALVES, CAPTURED SPRINGS AND CHECK SEATS WITH TWO QUARTER TURN, FULL PORT BALL VALVES.
EXISTING TO REMAIN & VERIFY IN FIELD		(RP) 1	PRINCIPLE REDUCED PRESSURE BACKFLOW PREVENTER	1/2"	-	-	-	-	DIRECT	EXISTING TO REMAIN "WILKINS" MODEL 975XLST 1/2" REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTER. STAINLESS STEEL MAIN BODY WITH TO INUNE INDEPENDENT CHECK VALVES SEPARATED BY AN INTERMEDIATE CHAMBER FOR RELIEF VENTING TO THE ATMOSPHERE. PREVENTAL SHALL COME WITH TWO FULL PORT BALL VALVES AND MODEL AG AIR GAP.
		wco	WALL CLEAN	OUT		LIN	E SIZE			ZURN Z1441 WALL CLEANOUT W/SMOOTH ACCESS COVER EQUIVALENT FIXTURE ACCPETABLE.
EXISTING TO REMAIN & VERIFY IN FIELD		FCO	FLOOR CLEA	NOUT		LINE	SIZE			ZURN Z1400-B FLOOR CLEANOUT EQUIVALENT FIXTURE ACCEPTABLE.
		CV	CHECK VALV	E		LINE	E SIZE			ZURN 40XL2 IN-LINE SINGLE CHECK VALVE. INSTALL PER MANUFACTURER'S INSTRUCTIONS. EQUIVALENT ACCEPTABLE.

# PLUMBING FIXTURE SCHEDULE









Left & Right Splashes Shown

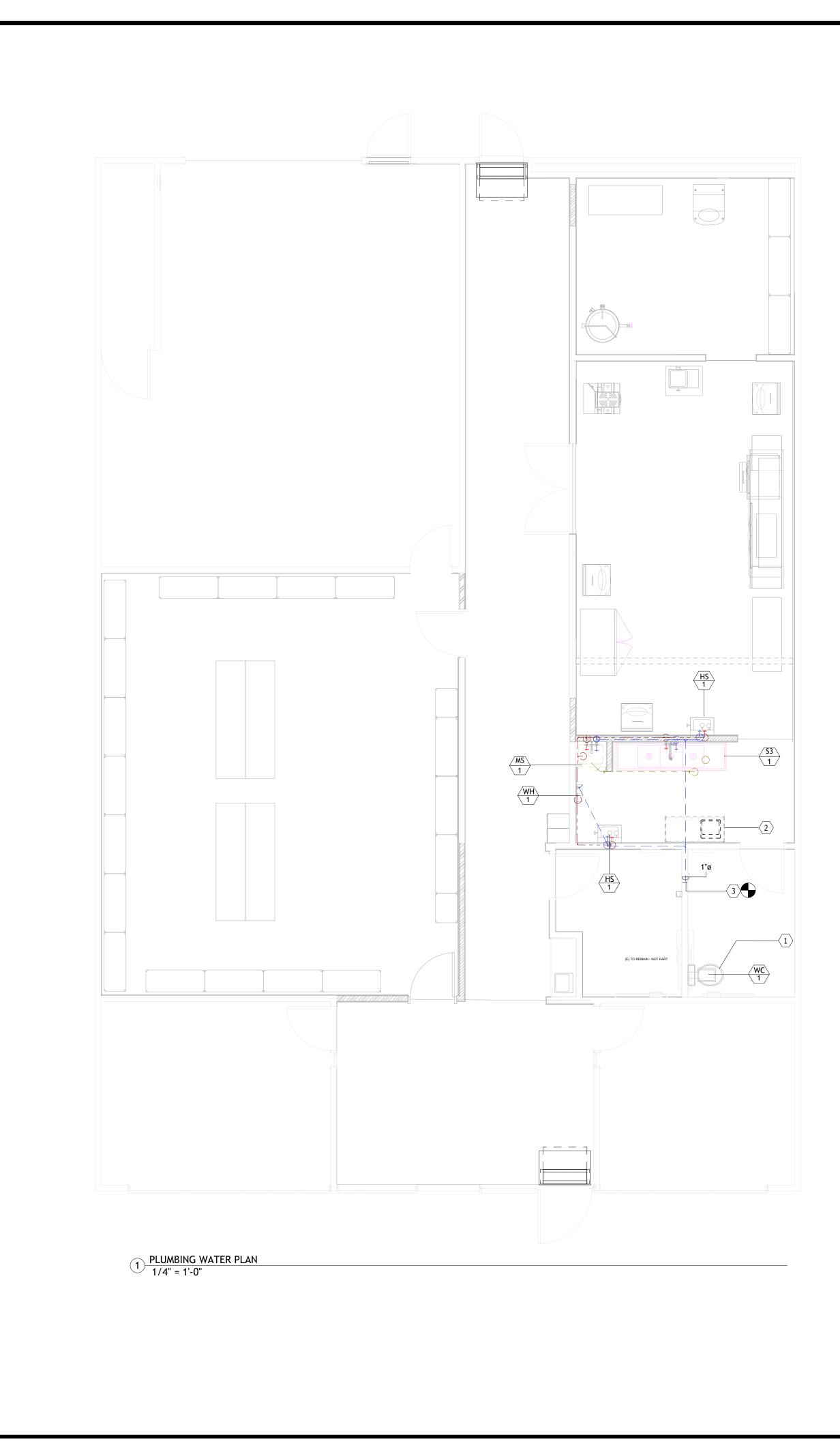
# 2 MOP SINK ACCESSORIES MOUNTING HEIGHTS

THIS DRAV	VINGS PREPA	RED BY							
ACC & ENGINEERING									
Design   Engineering   Construction									
PRINCII ACC & 1130 N KI ANAHI 714	Ben Hamed, ASSOC.M.ASCE, AIA. PRINCIPAL ENGINEER ACC & ENGINEERING 1130 N KRAEMER BLVD #I ANAHEIM, CA 92806 714-844-2140 Ben@accandengineering.com								
This drawing									
purpose oth project and si c a n n o t b in any manne w r i t t e n p e	to be used ner than the ite named l e r e p r o er without t	l for any e specific herein, and d u c e d he express o n f r o m							
PROPC	SED BUSINES	S							
GOALZ® Chocolate minus Garb									
PROJECT NAME	LOCATION	OWNER							
GOALZ CHOCOLATE PROCESSING CENTER CENTER CENTER CENTER CENTER 24835 LA PALMA AVE. UNIT G YORBA LINDA, CA 92887 RAMZI OTEN									
AUTHORITY HA		· · ·							
REVISION	ON SCHEDU REVISION DESCRIPTION	ILE REVISION DATE							
ENGINEER OF RECORD REVIEWED BY SEAL / STAMP THE SIGNATURE AND SEAL OF A PROFESSIONAL ENGINEER IS THE LEGAL REPRESENTATION THAT THIS ENGINEERING DRAWINGS, PLANS, AND SPECIFICATIONS WERE PREPARED EITHER BY THE PROFESSIONAL ENGINEER OR ANY OF ACC & ENGINEERING FIRM DESIGNERS WHO WERE UNDER THE RESPONSIBLE CHARGE (DIRECT CONTROL AND PERSONAL SUPERVISION) OF THE PROFESSIONAL ENGINEER. IT FURTHER CERTIFIES THAT THE WORK PERFORMED WAS DONE COMPETENTLY, MEETS THE PROFESSIONAL STANDARD OF CARE, AND IS IN ACCORDANCE WITH ACCEPTED STANDARDS OF PRACTICE.									
STATES	09-30-24	AWEER L							
PLUMB	EET NAMI ING NOT HEDULE	ES &							
	ет NUMBI <b>2-001</b>	ER							
	501								

STRAINER -КI-

 $\bigcirc$ 

BOOSTER PUMP (OPTIONAL)



### PLUMBING WATER PLAN SHEET NOTES TAG **KEYNOTE DESCRIPTION** $\langle \mathbf{x} \rangle$ 1 (E) TO REMAIN - NOT PART (E) COUNTERTOP SINK TO BE REMOVED, FOLLOW COLD WATER LINE INTO THE CEILING TO FIND THE POINT OF CONNECTION TO THE 1" MAIN COLD WATER LINE. PLUMBING WATER LINES IN WALL AND WASTE ON FLOOR. ROUTE TO EXISTING 1" MAIN WATER SUPPLY-VERIFY THIS LINE METERED SEPARATELY PAST BACKFLOW. VERIFY EXACT LOCATION AND SIZE IN FIELD PRIOR TO WORK. CONTACT ENGINEER IMMEDIATELY IF DISCREPANCIES ARE DISCOVERED. 4 3/4" COLD WATER INLET GATE OR BALL VALVE 5 6 7 Y-STRAINER, 100 MICRON RECOMMENDED 8 PRESSURE RELIEF VALVE 9 T & P DISCHARGE IN DIRECTLY TO MOP SINK BELOW

\_\_\_\_\_C

THESE INSTRUCTIONS ARE TO ENFORCE CALIFORNIA PLUMBING CODE REQUIREMENTS

1. EXISTING BUILDING SEWERS AND BUILDING DRAINS MAY BE USED IF SUCH SEWERS HAVE BEEN PROPERLY MAINTAINED AND FOUND UPON EXAMINATION AND TEST PERFORMED BY THE OWNER OR OWNER'S DESIGNATED AGENT THAT THEY ARE IN WORKING CONDITION AND FREE FROM ANY DEFECT.

2. CLEANOUTS SHALL BE INSTALLED AS PER SEC. 707.0 & 719.0 OF THE COUNTY OF LOS ANGELES PLUMBING CODE.

3. EACH PLUMBING VENT SHALL TERMINATE NOT LESS THAN TEN (10) FEET FROM OR AT LEAST THREE (3) FEET ABOVE ANY OPENABLE WINDOW, DOOR, OPENING OR AIR INTAKE. 906.2.

4. WATER SUPPLY AND DRAIN PIPES UNDER ACCESSIBLE LAVATORIES AND SINKS SHALL BE INSULATED OR OTHERWISE BE CONFIGURED TO PROTECT AGAINST CONTACT. PROTECTORS, INSULATORS, OR BOTH SHALL COMPLY WITH ASME A112.18.9 403.3.

6. COMBUST

6. COMBUSTIBLE PIPING INSTALLATIONS SHALL BE INSTALLED PER CHAPTER 14 OF THE COUNTY OF LOS ANGELES PLUMBING CODE FOR "FIRESTOP PROTECTION".

7. NEW OR REPAIRED POTABLE WATER SYSTEMS SHALL BE DISINFECTED PRIOR TO USE ACCORDING TO SECTION 609.9 (1-3) OF THE PLUMBING CODE.

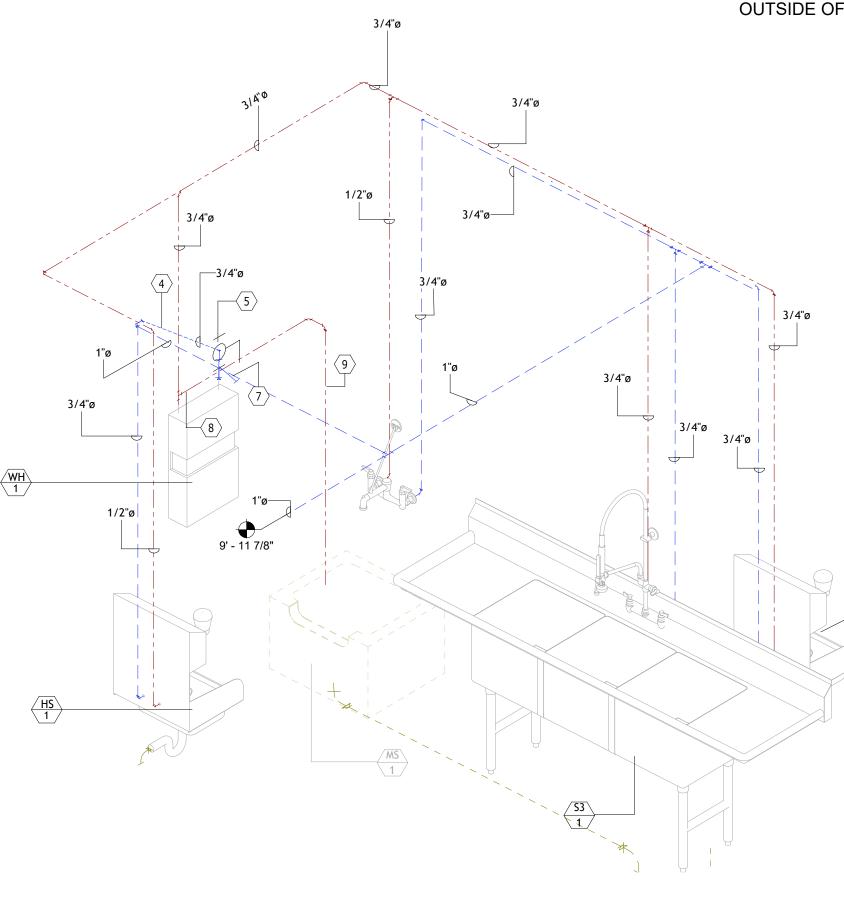
8. CONTRACTOR SHALL PROVIDE A SIGNED WRITTEN DECLARATION TO THE INSPECTOR AT TIME OF INSPECTION THAT POTABLE WATER SYSTEM HAS BEEN DISINFECTED PER SECTION 609.9.

9. WHERE LOCAL STATIC WATER PRESSURE (HIGH OR LOW) IS IN EXCESS OF EIGHTY (80)POUNDS PER SQUARE INCH, AN APPROVED TYPE PRESSURE REGULATOR PRECEDED BY AN ADEQUATE STRAINER SHALL BE INSTALLED TO REDUCE THE STATIC PRESSURE TO EIGHTY (80)POUNDS PER SQUARE INCH OR LESS. USE ACTUAL "FALL-OFF" PRESSURE LOSS IF APPENDIX "A" METHOD IF SIZING IS USED. EACH SUCH REGULATOR AND STRAINER SHALL BE ACCESSIBLY LOCATED ABOVEGROUND OR IN A VAULT WITH PROPER DRAINAGE. 608.2.

10. ALL EXPOSED GAS PIPING SHALL BE PROTECTED AGAINST CORROSION BY COATING OR WRAPPING WITH AN INERT MATERIAL APPROVED FOR SUCH APPLICATIONS. 1210.2.

11. ALL GAS PRESSURE REGULATORS SHALL BE VENTED SEPARATELY TO THE OUTSIDE OF THE BUILDING. 1208.8.4.

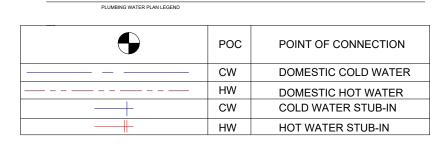
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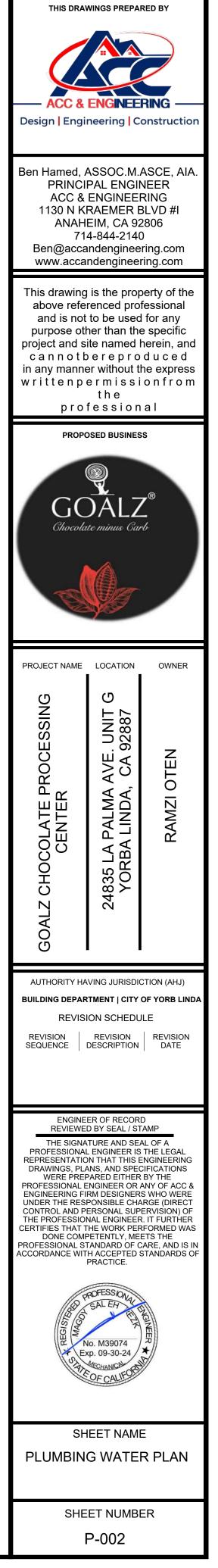


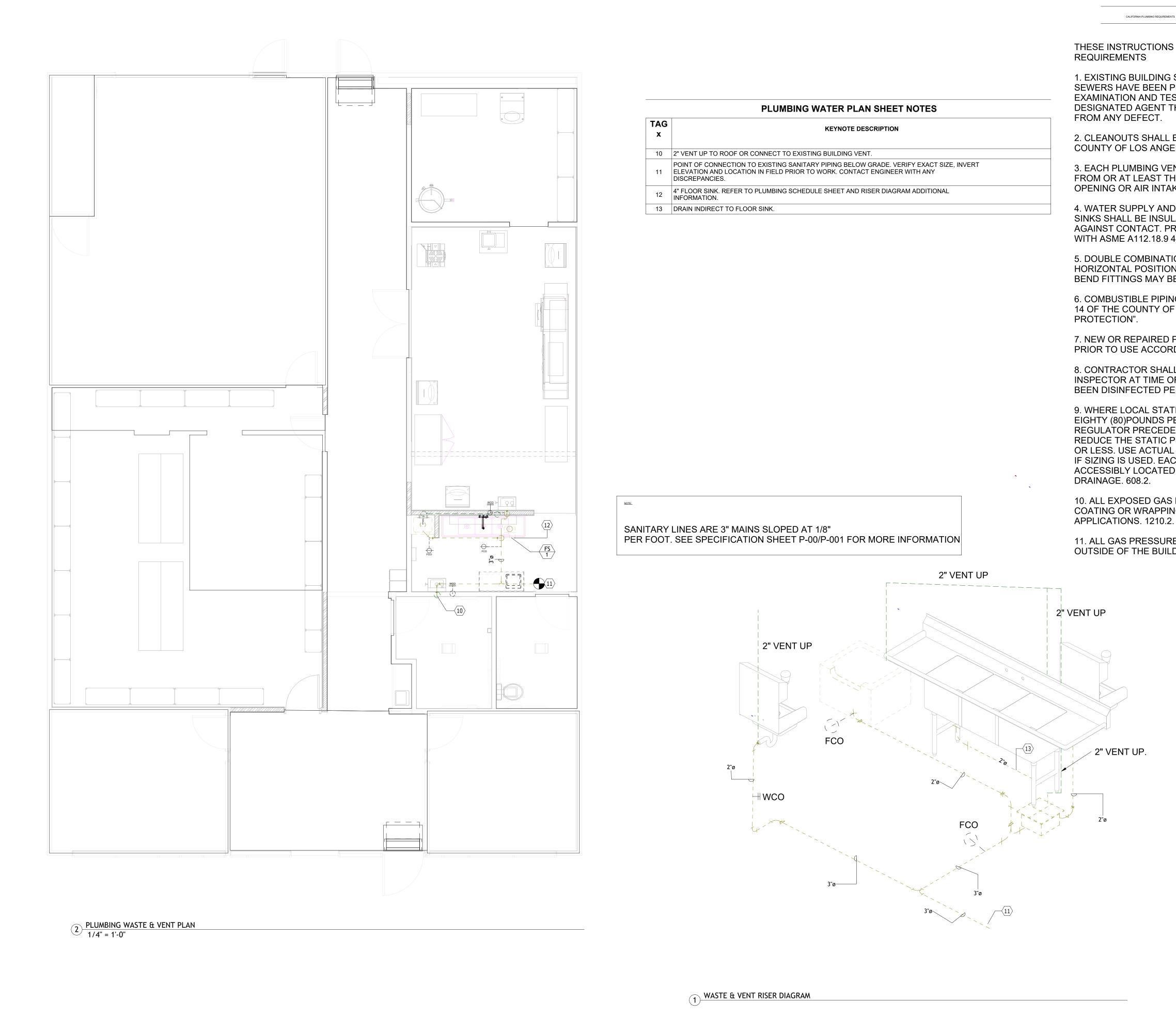
2 WATER RISER DIAGRAM

### CALIFORNIA PLUMBING REQUIREMENTS

5. DOUBLE COMBINATION FITTING IS NOT PERMITTED TO INSTALL IN HORIZONTAL POSITION. AS AN ALTERNATIVE, TWO COMBINATION WYE & 1/8 BEND FITTINGS MAY BE USED. 706.3.







### CALIFORNIA PLUMBING REQUIREMENT

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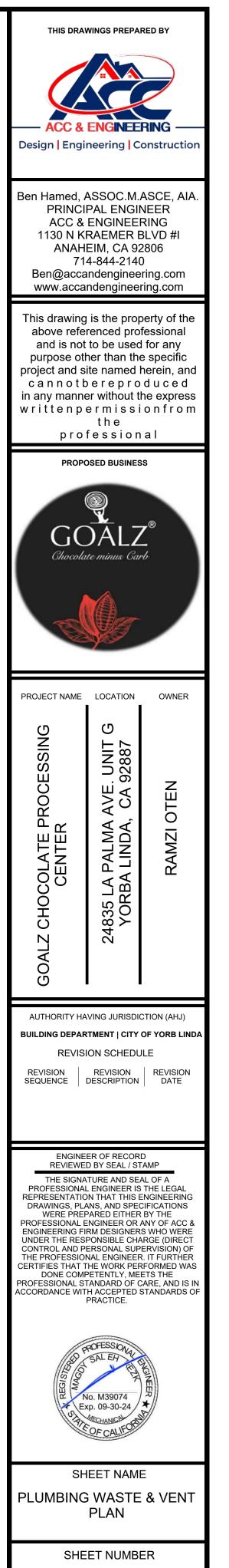
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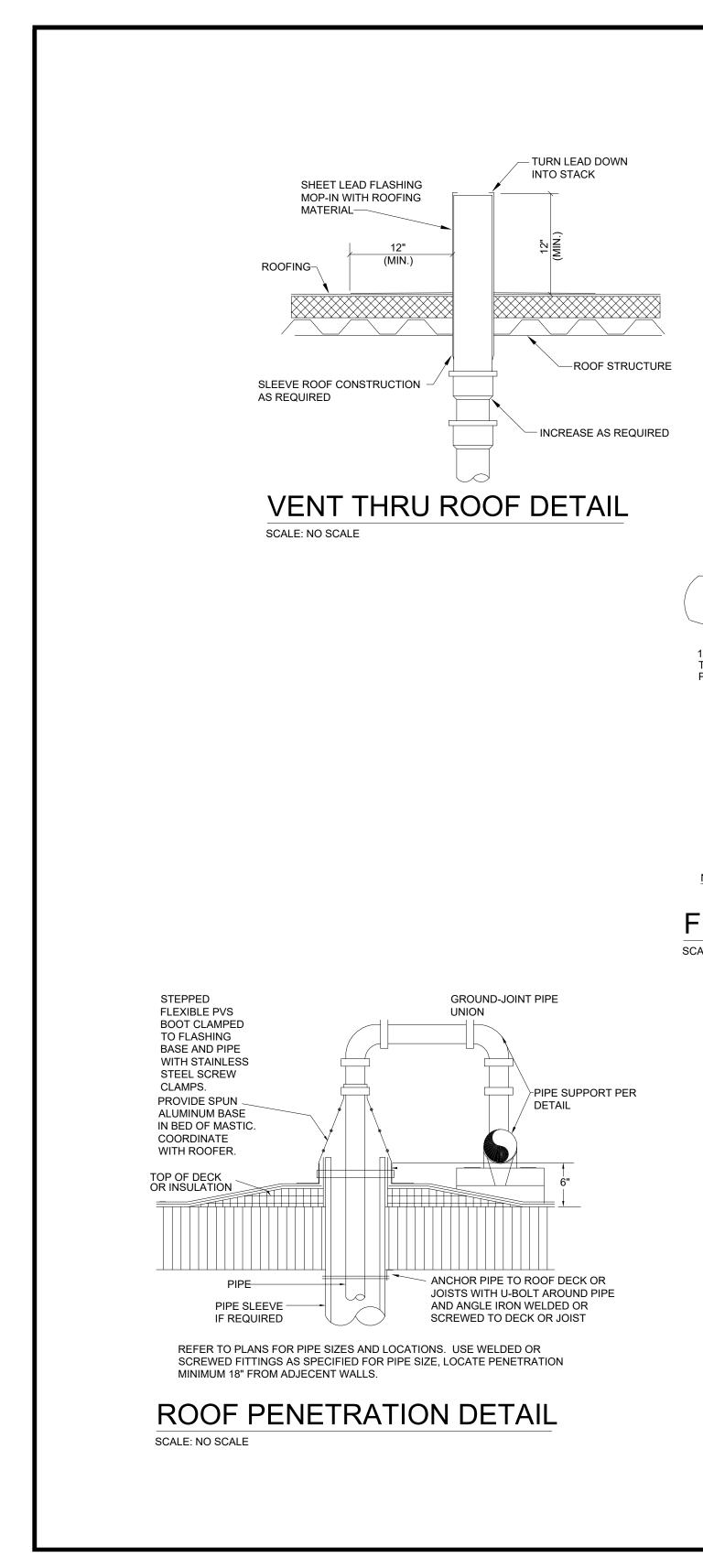
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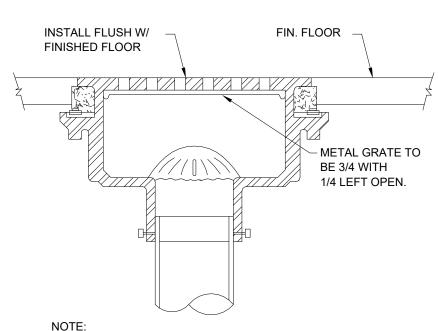
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WASTE & VENT PLAN LEGEND		
•	POC	POINT OF CONNECTION
	S OR W	SOIL OR WASTE BELOW FLOOR
	VT	VENT
	FCO	FLOOR CLEAN OUT
	WCO	WALL CLEAN OUT



P-003

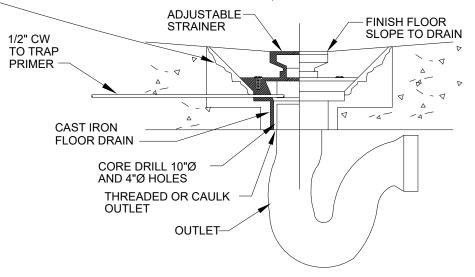




1. ALL FLOOR SINKS MUST BE FLUSH WITH TILE FLOOR AS SHOWN ABOVE. INSTALLATION ON A 1/4" LIP EITHER DIRECTION IS ALSO ACCEPTABLE.

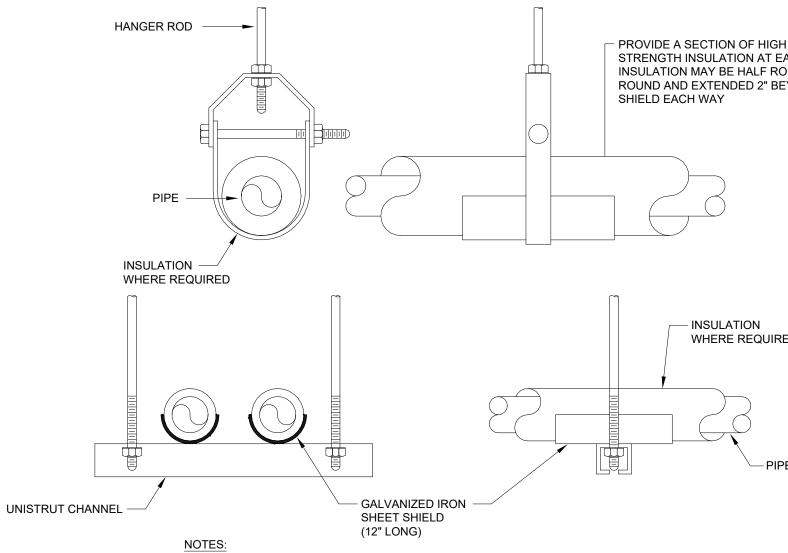
# FLOOR SINK DETIAL SCALE: NO SCALE

- 5LB. LEAD FLASHING SHALL BE FORMED TO CHIPPED CONCRETE WITH A POSITIVE SLOPE TO CLAMP DEVICE. PROVIDE NON- SHRINK SPOUT UNDER LEAD FLASHING AS REQUIRED TO FACILITATE POSITIVE SLOPE (ANY FLASHING MATERIALS OTHER THAN LEAD IS UNACCEPTABLE. MINIMUM WIDTH OF FLASHING SHALL BE 24").



NOTE: THE GENERAL CONTRACTOR SHALL PROVIDE A ONE PIECE WATER PROOF MEMBRANE FLOOR AND BASE IN THE TOILET ROOM(S).

# FLOOR DRAIN w/TRAP PRIMER SCALE: NO SCALE



1. ATTACH SUPPORTS FOR ALL PIPING SUSPENDED FROM THE STEEL STRUCTURE TO THE TOP CHORD OF JOISTS OR BEAMS.

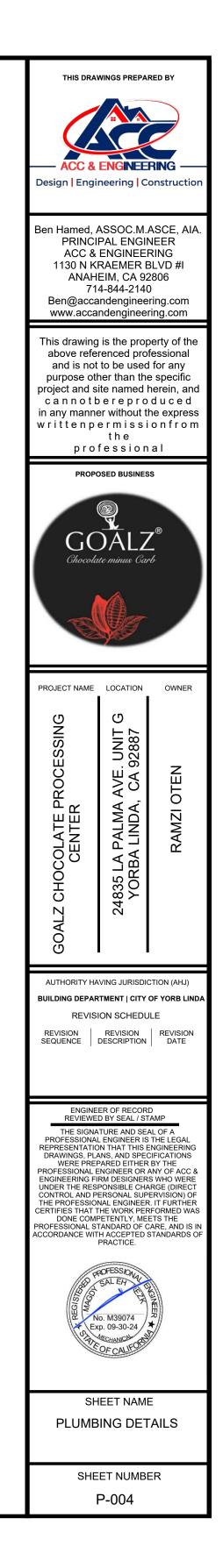
2. PROVIDE COPPER OR PLASTIC COATED HANGERS FOR NON-INSULATED COPPER PIPE.

# PIPE HANGER DETAIL

SCALE: NO SCALE

- PROVIDE A SECTION OF HIGH COMPRESSION STRENGTH INSULATION AT EACH HANGER POINT. INSULATION MAY BE HALF ROUND OR FULL ROUND AND EXTENDED 2" BEYOND GALVANIZED

WHERE REQUIRED



### **DIVISION 16 - ELECTRICAL** SECTION 16000 BASIC ELECTRICAL REQUIREMENTS

A. <u>NOTE</u>

- 1. DRAWINGS AND GENERAL PROVISIONS OF CONTRACT, INCLUDING GENERAL AND SUPPLEMENTARY CONDITIONS AND ALL OTHER SPECIFICATION SECTIONS, APPLY TO THIS AND THE OTHER SECTIONS OF DIVISION 16. 2. THE CONTRACTOR FOR THIS DIVISION OF WORK IS REQUIRED TO READ THE SPECIFICATIONS AND REVIEW DRAWINGS FOR ALL DIVISIONS OF WORK AND IS RESPONSIBLE FOR THE COORDINATION OF THIS WORK AND THE WORK OF HIS SUBCONTRACTORS WITH ALL DIVISIONS OF WORK. IT IS THIS CONTRACTORS RESPONSIBILITY TO
- PROVIDE HIS SUBCONTRACTORS WITH A COMPLETE SET OF BID DOCUMENTS. 3. THIS ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR SCHEDULING THE COMPLETION AND INSPECTION OF THIS WORK TO COMPLY WITH TENANT/ARCHITECT'S SCHEDULE AND THE PROJECT COMPLETION DATE.
- 4. THIS CONTRACTOR SHALL VISIT THE SITE PRIOR TO SUBMITTAL OF BID TO DETERMINE CONDITIONS AFFECTING THE WORK. ANY ITEMS WHICH ARE NOT COVERED IN THE BID DOCUMENTS OR ANY PROPOSED SUBSTITUTIONS SHALL BE LISTED SEPARATELY AND QUALIFIED IN THE CONTRACTORS BID. SUBMITTAL OF BID SHALL SERVE AS EVIDENCE OF KNOWLEDGE OF EXISTING CONDITIONS AND ANY MODIFICATIONS WHICH ARE REQUIRED TO MEET THE INTENT OF THE DRAWINGS AND SPECIFICATIONS. FAILURE TO VISIT THE SITE DOES NOT RELIEVE THE CONTRACTOR OF RESPONSIBILITY IN PERFORMANCE OF HIS WORK.
- 5. REFER TO RESPONSIBILITY SCHEDULE FOR INFORMATION IN REGARD TO RESPONSIBILITY OF WORK OR ITEMS WHICH MAY AFFECT THE BID.

### B. GENERAL REQUIREMENTS

- THIS CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS, EQUIPMENT, SERVICES, TOOLS, TRANSPORTATION. INCIDENTALS AND DETAILS NECESSARY TO PROVIDE A COMPLETE ELECTRICAL SYSTEM AS SHOWN ON THE DRAWINGS, CALLED FOR IN THE SPECIFICATIONS, AND AS REQUIRED BY JOB CONDITIONS. ALL WORK NOT SPECIFICALLY NOTED AS BEING BY THE LANDLORD OR ARCHITECTS SHALL BE PROVIDED BY THIS CONTRACTOR. CLOSELY COORDINATE THE ENTIRE INSTALLATION WITH THE LANDLORD AND ARCHITECTS, AS REQUIRED.
- 2. THE DRAWINGS AND SPECIFICATIONS ARE INTENDED TO SUPPLEMENT EACH OTHER AND ANY MATERIAL OR LABOR CALLED FOR IN ONE SHALL BE FURNISHED AND INSTALLED EVEN THOUGH NOT SPECIFICALLY MENTIONED IN BOTH. ANY MATERIAL OR LABOR WHICH IS NEITHER SHOWN ON THE DRAWINGS NOR CALLED FOR IN THE SPECIFICATIONS, BUT WHICH IS OBVIOUSLY NECESSARY TO COMPLETE THE WORK, AND WHICH IS USUALLY INCLUDED IN WORK OF SIMILAR CHARACTER, SHALL BE FURNISHED AND INSTALLED AS PART OF THE CONTRACT.
- 3. WHERE THE DRAWINGS OR SPECIFICATIONS CALL FOR ITEMS WHICH EXCEED CODES OR THE LANDLORD'S TENANT CRITERIA, THE CONTRACTOR IS RESPONSIBLE FOR FURNISHING AND INSTALLING THE SYSTEM WITH THE MORE STRINGENT REQUIREMENTS AS DESIGNED AND DESCRIBED ON THESE DRAWINGS, UNLESS SPECIFICALLY NOTED OTHERWISE
- 4. ALL WORK IN THIS SECTION SHALL BE INSTALLED SO AS TO BE READILY ACCESSIBLE FOR OPERATING, SERVICING, MAINTAINING, AND REPAIRING. THIS CONTRACTOR IS RESPONSIBLE FOR PROVIDING SUFFICIENT SERVICE ACCESS TO ALL EQUIPMENT.
- 5. ALL WORK SHALL BE PERFORMED IN A NEAT PROFESSIONAL MANNER USING GOOD CONSTRUCTION PRACTICES.
- 6. UNLESS SPECIFICALLY NOTED OTHERWISE, MATERIALS, PRODUCTS, AND EQUIPMENT, INCLUDING ALL COMPONENTS THEREOF, SHALL BE NEW, UNDERWRITERS LABORATORIES LISTED AND LABELED AND SIZED IN CONFORMITY WITH REQUIREMENTS OF STATE AND LOCAL CODES, WHICHEVER IS MORE STRINGENT.
- 7. THIS CONTRACTOR SHALL DO ALL CUTTING, CHASING AND CHANNELING REQUIRED FOR ANY WORK UNDER THIS DIVISION. CUTTING SHALL HAVE PRIOR APPROVAL BY THE ARCHITECTS AND THE LANDLORD. ALL PATCHING SHALL BE BY G.C. AND SHALL MATCH THE SURROUNDING SURFACES.
- 8. THE ELECTRICAL CONTRACTOR SHALL MAKE ALL FINAL ELECTRICAL CONNECTIONS AS REQUIRED FOR A COMPLETE AND OPERATING SYSTEM.
- C. TEMPORARY LIGHT AND POWER
- 1. THIS CONTRACTOR SHALL FURNISH AND INSTALL ALL TEMPORARY WIRING AND RELATED GROUND FAULT INTERRUPTION PROTECTION FOR LIGHT AND POWER FOR ALL CONTRACTORS AND SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL TEMPORARY WIRING.
- 2. THE GENERAL CONTRACTOR SETS UP ALL ELECTRICAL UTILITIES IN THE NAME OF THE TENANT. TENANT PAYS FOR ALL UTILITIES THROUGHOUT CONSTRUCTION.
- D. CODES
- 1. ALL WORK SHALL CONFORM TO THE LANDLORD'S CRITERIA, THE STATE'S, COUNTY'S, CITY'S AND LOCAL CODES AND ORDINANCES SAFETY AND HEALTH CODES NEPA CODES ENERGY CODES AND ALL OTHER APPLICABLE CODES. AND REQUIREMENTS. THIS CONTRACTOR SHALL INQUIRE INTO AND COMPLY WITH ALL APPLICABLE CODES. ORDINANCES, AND REGULATIONS, THIS CONTRACTOR SHALL INCLUDE ANY CHANGES REQUIRED BY CODES IN THE BID AND IF THESE CHANGES ARE NOT INCLUDED IN THE BID. THEY MUST BE QUALIFIED AS A SEPARATE LINE ITEM IN THE BID AFTER CONTRACT IS AWARDED. CHANGE ORDERS FOR INCREASED COSTS DUE TO CODE ISSUES WILL NOT BE ACCEPTED BY OWNER, UNLESS ALLOWANCES HAVE PREVIOUSLY BEEN AGREED UPON.
- E. LICENSES, PERMITS, INSPECTIONS & FEES
- 1. THIS OWNER SHALL OBTAIN AND PAY FOR ALL LICENSES, PERMITS, INSPECTIONS, AND FEES REQUIRED OR RELATED TO HIS WORK.
- 2. FURNISH TO ARCHITECTS ALL CERTIFICATES OF INSPECTION AND FINAL INSPECTION APPROVAL AT COMPLETION OF PROJECT
- F. TRADE NAMES, MANUFACTURERS AND SHOP DRAWINGS
- 1. WHERE TRADE NAMES AND MANUFACTURERS ARE USED ON THE DRAWINGS OR IN THE SPECIFICATIONS. TH FXACT FOLIPMENT SHALL BE USED AS A MINIMUM FOR THE BASE BID. MANUFACTURERS CONSIDERED AS AN EQUAL OR BETTER IN ALL ASPECTS TO THAT SPECIFIED WILL BE SUBJECT TO APPROVAL IN WRITING BY ARCHITECTS/ENGINEERS THROUGH SHOP DRAWING SUBMITTAL PROCESS FOR ACCEPTANCE PRIOR TO INSTALLATION. THE USE OF ANY UNATHORIZED EQUIPMENT SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.
- 2. GENERAL CONTRACTOR SHALL SUBMIT ONLY SUBSTITUTION REQUESTS TO ARCHITECTS/ENGINEERS FOR APPROVAL. SUBMISSIONS SHALL BE MADE EARLY ENOUGH IN PROJECT TO ALLOW FOUR (4) WORKING DAYS FOR ARCHITECTS/ENGINEERS REVIEW WITHOUT CAUSING DELAYS OR CONFLICTS TO THE JOB'S PROGRESS. SUBMITTALS SHALL BEAR THE STAMP AND/OR THE SIGNATURE OF THE GENERAL CONTRACTOR AND THE SUB-CONTRACTOR SHOWING THAT HE HAS REVIEWED AND CONFIRMED THAT THE SUBMITTALS ARE IN CONFORMANCE WITH THE CONTRACT DRAWINGS AND SPECIFICATIONS OR INDICATE WHERE EXCEPTIONS HAVE BEEN TAKEN.
- G. GUARANTEE
- 1. THE EQUIPMENT MANUFACTURER SHALL PROVIDE A 12 MONTH GUARANTEE TO TENANT FROM THE DATE OF ACCEPTANCE. THIS CONTRACTOR SHALL WARRANTY THE INSTALLATION OF THIS EQUIPMENT AND WILL BE RESPONSIBLE FOR ANY DAMAGE AND/OR MALFUNCTION CAUSED BY THE INSTALLATION. THIS CONTRACTOR SHALL NOT BEAR ADDITIONAL WARRANTIES BEYOND A COMPLETE WORKING SYSTEM.
- H. RECORD DRAWINGS
  - THIS CONTRACTOR SHALL MAINTAIN ONE SET OF DRAWINGS ON THE JOB SITE UPDATED WEEKLY TO RECORD ALL DEVIATIONS FROM CONTRACT DRAWINGS, SUCH AS:
  - a. LOCATION OF CONCEALED CONDUIT AND EQUIPMENT.
  - b. REVISIONS, ADDENDUMS, AND CHANGE ORDERS.
  - c. SIGNIFICANT DEVIATIONS MADE NECESSARY BY FIELD CONDITIONS, APPROVED EQUIPMENT SUBSTITUTIONS, AND CONTRACTOR'S COORDINATION WITH OTHER TRADES.
- 2. AT COMPLETION OF THE PROJECT AND BEFORE FINAL APPROVAL, THIS CONTRACTOR SHALL MAKE ANY FINAL CORRECTIONS TO DRAWINGS AND CERTIFY THE ACCURACY OF EACH PRINT BY SIGNATURE THEREON. FAILURE TO KEEP THESE RECORDS WILL ALLOW TENANT/ARCHITECTS TO DIRECT THE GENERAL CONTRACTOR TO PROVIDE THESE RECORDS AT HIS EXPENSE PRIOR TO FINAL PAYMENT

### I. DISCREPANCIES IN DOCUMENTS

DRAWINGS (PLANS, SPECIFICATIONS, AND DETAILS) ARE DIAGRAMMATIC AND INDICATE THE GENERAL LOCATION AND INTENT OF THE ELECTRICAL SYSTEMS. WHERE DRAWINGS, EXISTING SITE CONDITIONS, SPECIFICATIONS OR OTHER TRADES CONFLICT OR ARE UNCLEAR, ADVISE THE GENERAL CONTRACTOR IN WRITING, PRIOR TO SUBMITTAL OF BID. THE GENERAL CONTRACTOR IS RESPONSIBLE TO ADVISE PROJECT MANAGER, IN WRITING, OF VARIATIONS TO CONTRACT DOCUMENTS PRIOR TO SUBMISSION OF BID. OTHERWISE, TENANT/ARCHITECT'S INTERPRETATION OF CONTRACT DOCUMENTS OR CONDITIONS SHALL BE FINAL WITH NO ADDITIONAL COMPENSATION PERMITTED.

### J. PHASING REQUIREMENTS

1. THIS CONTRACTOR IS TO INCLUDE IN HIS BID ALL NECESSARY SERVICE REQUIRED TO KEEP THE OPERATING PHASE OF THE STORE'S ELECTRICAL SERVICE IN OPERATION. CONTRACTOR MUST SCHEDULE IN WRITING WITH TENANT/ARCHITECTS AND THE LANDLORD ONE WEEK PRIOR TO ANY SHUT DOWN OF THE ELECTRICAL SYSTEM.

### K. DEMOLITION

- 1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TH THE DEMOLITION PROVIDED BY THE GENERAL CONT EXISTING EQUIPMENT REQUIRED TO BE LEFT INTAC
- 2. THE CONTRACTOR SHALL INCLUDE, AND WILL BE HELD RESPONSIBLE FOR. THE REMOVAL OF ALL EXISTING THE EXTENT OF DEMOLITION PRIOR TO BID AND INCLUDE IN BID PROPOSAL
- L. SLEEVES
- MASONRY FLOORS OR WALLS.
- FOR CONCEALED VERTICAL PIPING, SLEEVES SHALL BE NO. 22 U.S.G. GALVANIZED STEEL MINIMUM.

### M. HANGERS

- CLIPS, CHANNELS, HANGER RODS, ETC., NECESSARY FOR THE INSTALLATION OF WORK.
- HANGERS SHALL BE FASTENED TO BUILDING STEEL, CONCRETE, OR MASONRY, BUT NOT TO PIPING. HANGING ALSO SUBJECT TO LANDLORD CRITERIA.
- 3. HANGERS AND PIPING OF DISSIMILAR METALS SHALL BE DIELECTRICALLY SEPARATED. N. FINAL ELECTRICAL INSPECTIONS
- TO BRING ALL ITEMS REPORTED BY THE INDEPENDENT ELECTRICAL CONTRACTOR UP TO PLANS AND

# END OF SECTION 16000

### ETINI

EA I ELE TRI AL MATERIAL ANI METH I A. CONTRACTOR NOTES

SPECIFICATION REQUIREMENTS

- 1. THE CONTRACTOR SHALL FURNISH ALL LABOR, MA AND FACILITIES NECESSARY FOR, REASONABLY IM COMPLETION AND TESTING OF ALL THE WORK FOR CALLED FOR IN THE SPECIFICATIONS, AND AS REQU THE FOLLOWING
- DEVICES, COVER PLATES, CONDUITS, ETC.
- LANDLORD.
- d. THE WIRING OF MECHANICAL EQUIPMENT AS OUTLINED ON THE BID SET DRAWINGS AND IN THE NOTED SPECIFICALLY ON DRAWING.
- EQUIPMENT. ETC. REQUIRED FOR MOUNTING.
- DRAWINGS.

- CONNECTIONS FOR SOUND SYSTEM AS SHOWN.
- NECESSARY TO MEET LANDLORD, STATE, LOCAL, INSURANCE AND FIRE DEPARTMENT REQUIREMENTS.
- HVAC CONTROL EQUIPMENT WHERE PLENUM RATED CABLES ARE NOT PERMITTED.
- m. BALANCING LOADS.
- n. AS-BUILTS, PANEL DESCRIPTION AND CIRCUIT BREAKER SPECIFIC LABELING.
- a. TELEPHONE INSTRUMENTS AND WIRING UNLESS NOTED OTHERWISE.
- b. DATA CABLE WIRING UNLESS NOTED OTHERWISE

BEFORE STARTING WORK, THIS CONTRACTOR SHALL EXAMINE THE ARCHITECTURAL, STRUCTURAL, FIRE PROTECTION, MECHANICAL AND PLUMBING PLANS, SHOP DRAWINGS AND SPECIFICATIONS TO SEQUENCE, COORDINATE, AND INTEGRATE THE VARIOUS ELEMENTS OF THE ELECTRICAL SYSTEM, MATERIALS AND EQUIPMENT WITH OTHER CONTRACTORS TO AVOID INTERFERENCES AND CONFRONTATIONS. B. CONDUIT

- SPEAKERS, SECURITY, PAGER, TRAFFIC COUNTING SYSTEM AND ELECTRICAL EQUIPMENT.
- WHERE PERMITTED BY LANDLORD OR CODE. 3. MINIMUM SIZE OF CONDUIT SHALL BE:
- a. MAIN FEEDER CONDUIT 2" OR LARGER FOR ALL APPLICATIONS.
- b. 1/2" FOR INDIVIDUAL LIGHTING FIXTURE CONNECTIONS OR TO INDIVIDUAL LIGHT SWITCHES (IF ACCEPTABLE BY THE LANDLORD AND LOCAL CODE OFFICIALS) AND 3/4" FOR ALL OTHER LOCATIONS.

### ELECTRICAL SPECIFICATIONS (AS APPLICABLE

E COORDINATION OF THE DEMOLITION OF EXISTING WORK AND	
RACTOR. COORDINATE WITH THE GENERAL CONTRACTOR ANY	
T.	

ELECTRICAL EQUIPMENT, CONDUITS, ETC. NOT TO BE REUSED ON THIS PROJECT, UNLESS SPECIFICALLY NOTED OTHERWISE, CONTRACTOR MUST VERIFY WITH THE LANDLORD ALL PRESUMED ABANDONED EQUIPMENT PRIOR TO REMOVAL. ALL EXTRANEOUS ITEMS IN THE SPACE OR ON THE ROOF NOT APPLICABLE TO THE NEW WORK MUST BE REMOVED AND ROOF/WALL/FLOOR PATCHED/REPAIRED TO MATCH EXISTING STRUCTURE. EXISTING ABANDONED CONDUIT OR EQUIPMENT IN THE FLOOR, EMBEDDED IN CONCRETE OR OTHERWISE INACCESSIBLE ARE TO BE CUT OFF AND SEALED BELOW OR WITHIN FLOOR OR WALL LEVEL WHEN THEY ARE NOT TO BE REUSED IN THIS PROJECT IF REQUIRED BY LANDLORD OR CODES, ABANDONED CONDUIT MUST BE REMOVED TO POINT OF ORIGIN. CONFIRM

1. THE CONTRACTOR SHALL PROVIDE SLEEVES TO PROTECT EQUIPMENT OR FACILITIES IN THE INSTALLATION. EACH SLEEVE SHALL EXTEND THROUGH IT'S RESPECTIVE FLOOR. WALL OR PARTITION AND SHALL BE CUT FLUSH WITH FACH SURFACE EXCEPT SUFEVES THAT PENETRATE THE FLOOR WHICH SHALL EXTEND 2" ABOVE THE FLOOR CONTRACTOR MUST COORDINATE THROUGH THE LANDLORD ANY CORE DRILLING OR CUTTING OF OPENINGS IN

2. ALL SLEEVES AND OPENINGS THROUGH FIRE RATED WALLS AND/OR FLOORS SHALL BE FIRE SEALED WITH CALCIUM SILICATE, SILICONE "RTV" FOAM, "3M" FIRE RATED SEALANTS OR EQUAL, SO AS TO RETAIN THEIR FIRE RATING. 3. SLEEVES IN BEARING AND MASONRY WALLS, FLOORS, AND PARTITIONS SHALL BE STANDARD WEIGHT STEEL PIPE FINISHED WITH SMOOTH EDGES. FOR OTHER THAN MASONRY PARTITIONS, THROUGH SUSPENDED CEILINGS, OR

1. HANGERS SHALL INCLUDE ALL MISCELLANEOUS STEEL SUCH AS ANGLE IRON, BANDS, C-CLAMPS WITH RETAINING

FROM METAL DECK IS NOT PERMITTED. HANGERS MUST BE ATTACHED TO UPPER CHORD OF BAR JOIST. WHERE INTERFERENCES OCCUR AND IN ORDER TO SUPPORT DUCTWORK OR PIPING. THE CONTRACTOR MUST INSTALL TRAPEZE TYPE HANGERS OR SUPPORTS WHICH SHALL BE LOCATED WHERE THEY DO NOT INTERFERE WITH ACCESS TO FIRE DAMPERS, VALVES, AND OTHER EQUIPMENT. HANGER TYPES AND INSTALLATION METHODS ARE

ASIDE FROM NORMAL INTERIM INSPECTIONS OF WORK IN PLACE, TENANT/ARCHITECTS MAY HAVE AN INDEPENDENT ELECTRICAL CONTRACTOR INSPECT THE FINISHED ELECTRICAL INSTALLATION UPON COMPLETION FOR COMPLIANCE WITH THE PLANS, SPECIFICATIONS AND CODES. THE INSTALLING CONTRACTOR WILL BE RESPONSIBLE

ATERIALS, EQUIPMENT, SERVICES, TOOLS, TRANSPORTATION,
IPLIED AND INCIDENTAL TO, THE FURNISHING, INSTALLATION,
THE ELECTRICAL SYSTEMS AS SHOWN ON THE DRAWINGS,
UIRED BY JOB CONDITIONS, TO INCLUDE, BUT NOT BE LIMITED TO

a. A COMPLETE ELECTRICAL DISTRIBUTION SYSTEM INCLUDING THE INSTALLATION OF SAFETY AND DISCONNECT SWITCHES, MOTOR STARTERS AND LIGHTING. IT IS THE ELECTRICAL CONTRACTOR'S RESPONSIBILITY TO INCLUDE IN HIS BID FOR PROVIDING SERVICE EQUIPMENT NECESSARY FOR TIE-IN TO LANDLORD'S DISTRIBUTION EQUIPMENT OR TO OBTAIN SERVICE FROM LOCAL UTILITY COMPANY. REFER TO ELECTRICAL RESPONSIBILITY SCHEDULE AND ELECTRICAL POWER RISER DIAGRAM FOR ADDITIONAL INFORMATION.

b. CONTRACTOR MUST ALSO INCLUDE IN BID ALL NECESSARY MATERIALS REQUIRED TO COMPLETE THE SYSTEM INCLUDING, BUT NOT LIMITED TO, FEEDERS, BRANCH CIRCUITS, JUNCTION BOXES, OUTLET BOXES, WIRING

c. METERING AND CURRENT TRANSFORMERS AS REQUIRED BY DRAWINGS, UTILITY COMPANY, AND/OR

SPECIFICATIONS. WORK SHALL INCLUDE WIRING OF ALL STARTERS, DISCONNECTS, AND POWER WIRING OF MECHANICAL EQUIPMENT EXCEPT AS SPECIFICALLY NOTED OTHERWISE. ALL LOW VOLTAGE (24 VOLT) EMS TEMPERATURE CONTROL WIRING SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR UNLESS

e. INSTALLATION OF LIGHT FIXTURES AND LAMPS AS SHOWN ON THE DRAWINGS INCLUDING ALL DEVICES.

f. A COMPLETE CONDUIT SYSTEM FOR TELEPHONE/DATA INCLUDING BRANCH CONDUITS, OUTLET BOXES, PULL WIRES, GROUND CONDUCTORS, COVER PLATES, ETC. OR AS SPECIFICALLY NOTED OTHERWISE ON THE

g. A COMPLETE EMERGENCY AND EXIT LIGHTING SYSTEM AS SHOWN ON THE DRAWINGS.

h. TEMPORARY SERVICE AS INDICATED IN THE SPECIFICATIONS, INCLUDING ITS REMOVAL.

i. FINAL CONNECTIONS TO ALL SIGNS, CORNICE LIGHTING, CASE LIGHTING, ETC. AS SHOWN ON DRAWINGS.

IF INDICATED ON DRAWINGS, INSTALLATION AND WIRING OF SPEAKERS, AMPLIFIERS, CONDUIT AND FINAL

k. SMOKE/FIRE ALARM WIRING. DEVICES AND CONDUIT. AS SHOWN OR DESCRIBED ON DRAWINGS OR AS

INSTALLATION OF CONDUITS STUBBED TO ABOVE CEILING FOR HVAC. ALSO, ANY ADDITIONAL CONDUIT FOR

2. THE FOLLOWING ITEMS OF ELECTRICAL CONSTRUCTION ARE NOT INCLUDED IN THIS CONTRACT:

1. THIS CONTRACTOR SHALL FURNISH AND INSTALL ALL CONDUITS SERVING ALL EQUIPMENT, INCLUDING BUT NOT LIMITED TO, LIGHTING, RECEPTACLES, HEATING, AIR CONDITIONING, PLUMBING EQUIPMENT, TELEPHONE, DATA,

2. ALL CONDUITS SHALL BE GALVANIZED IMC OR EMT UNLESS OTHERWISE SPECIFIED IN SPECIFICATIONS OR ON DRAWINGS. ALL CONDUIT IS TO BE UL LABELED. EMT CONNECTORS SHALL BE STEEL COMPRESSION OR SET SCREW TYPE. CONDUIT UNDER SLAB ON GRADE SHALL BE RIGID STEEL, OR SCHEDULE 40 PVC WITH RIGID STEEL ELLS

- c. IF HVAC CONTROL WIRING IS REQUIRED TO BE RUN IN CONDUIT, IT SHALL BE A MINIMUM OF 3/4", UNLESS NOTED OTHERWISE ON DRAWINGS. d. ALL IN/UNDER FLOOR CONDUIT SHALL BE OF MINIMUM 3/4" SIZE.
- 4. SUPPORT ALL CONDUIT, INCLUDING SEISMIC AND SWAY BRACING, IN ACCORDANCE WITH THE NEC AND LOCAL CODES. 5. GENERALLY, ALL CONDUIT SHALL BE CONCEALED EXCEPT FOR UNFINISHED AREAS, SUCH AS EQUIPMENT ROOMS.
- EXPOSED CONDUIT SHALL BE ALLOWED ONLY AS NOTED ON PLAN AND AS APPROVED BY PROJECT MANAGER. PAINTING OF CONDUITS, NOTED ON DRAWINGS OR SPECIFICATIONS WILL BE BY GENERAL CONTRACTOR.
- 6. FLEXIBLE METAL CONDUIT OR MC TYPE CABLE: a. FLEXIBLE CONDUIT OR MC TYPE CABLE SHALL BE USED FOR THE FOLLOWING APPLICATIONS ONLY
- 1. FINAL CONNECTIONS TO MOTORS.
- 2. FINAL CONNECTIONS INTO AND OUT OF THE TRANSFORMER.
- 3. FINAL CONNECTIONS TO VIBRATING EQUIPMENT.
- 4. INTER-CONNECTIONS BETWEEN ALL LIGHT FIXTURES AND HOMERUNS TO PANELS WHERE CODE ALLOWS. 5. FINAL CONNECTIONS WHERE RIGID CONDUIT IN NOT PRACTICAL.
- 6. IN WALLS (FOR LIGHT SWITCHES AND 120 VOLT POWER RECEPTACLES AND HVAC CONTROL EQUIPMENT).
- b. FLEXIBLE METAL CONDUIT OR MC TYPE CABLE MUST BE THE SAME SIZE AS THE IMC OR EMT CONDUIT TO WHICH IT IS CONNECTED. BOTH THE FLEXIBLE METAL CONDUIT AND IT'S FITTINGS ARE TO BE LISTED FOR GROUNDING. A GREEN GROUNDING CONDUCTOR SHALL BE INSTALLED. ALL CONNECTORS ARE TO BE OF A NEMA APPROVED TYPE.
- c. THE USE OF ROMEX, BX, ETC. IS PERMITTED ONLY IN RESIDENTIAL CONSTRUCTION NOT HIGHER THAN THREE STORIES
- d. CONNECTION TO ANY OUTDOOR EQUIPMENT MUST BE WEATHERPROOF
- 7. PROVIDE PULL-WIRE IN ALL EMPTY CONDUITS EXCEPT AS NOTED OTHERWISE ON DRAWINGS.
- 8. HOME RUNS AND MAIN CONDUIT RUNS ARE TO BE HELD TIGHT TO STRUCTURE ABOVE OR AS REQUIRED TO ALLOW PROPER SERVICE ACCESS AND OTHER TRADES WORK. CONDUIT MUST BE TRAPEZED TO ALLOW 3 FEET MINIMUM CLEARANCE ABOVE CEILING.
- 9. ALL CONDUITS MUST BE SIZED PER NEC AND LOCAL CODES.
- 10. ALL SENSORMATIC WIRING MUST BE PLACED IN CONDUIT (PVC PIPE NOT PERMITTED)

### OUTLET BOXES

- 1. ALL OUTLET BOXES SHALL BE GALVANIZED PRESSED STEEL OF THE STANDARD KNOCKOUT TYPE. NO ROUND OUTLET BOXES SHALL BE PERMITTED UNLESS INDICATED AND FOR LIGHTING THAT REQUIRE SUCH CONFIGURATION. CONCEALED BOXES SHALL NOT BE LESS THAN 4" SQUARE AND 1 1/2" DEEP, WITH PLASTER RINGS. 2. ALL KNOCKOUT BOXES, UPON WHICH LIGHTING FIXTURES ARE TO BE INSTALLED, SHALL BE EQUIPPED WITH 3/8"
- FIXTURE STUDS
- 3. EXTERIOR BOXES SHALL BE CAST RUST-RESISTING METAL WITH GASKETED COVERS.
- 4. INSTALL BOXES RIGIDLY FROM BUILDING STRUCTURE AND SUPPORT INDEPENDENTLY OF THE CONDUIT SYSTEM. ALSO PROVIDE SUITABLE BOX EXTENSIONS TO EXTEND BOXES TO FINISHED FACES OF FLOORS, CEILINGS, WALLS ETC. ALL OUTLET BOXES TO BE PROVIDED WITH CADDY "QUICK-MOUNT BOX SUPPORT" TO MINIMIZE THE DEFLECTION THAT OCCURS WHEN PLUGGING/UNPLUGGING INTO THESE DEVICES.
- 5. UNLESS OTHERWISE NOTED ON DRAWINGS OR OTHERWISE REQUIRED BY THE NATIONAL ELECTRICAL CODE, HANDICAP CODES OR LOCAL CODES, OUTLET HEIGHTS SHALL BE AS FOLLOWS: a. SWITCH HEIGHT 48" FROM FINISHED FLOOR TO TOP OF OUTLET.
- b. CONVENIENCE OUTLETS:

MOUNTED ON WALL NO MORE THAN 48-INCHES, MEASURED FROM TO TOP OF THE RECEPTACLE OUTLET BOX OR RECEPTACLE HOUSING AND: NO LESS THAN 15-INCHES, MEASURED FROM THE BOTTOM OF THE RECEPTACLE OUTLET BOX OR RECEPTACLE HOUSING, TO THE LEVEL OF THE FINISHED FLOOR OR WORKING PLATFORM UNLESS OTHERWISE INDICATED OR HORIZONTALLY MOUNTED IN BASEBOARD BENEATH CABINETS, AS SHOWN ON DRAWINGS, OR AS REQUIRED BY LOCAL CODES, SEE DRAWINGS.

c. TELEPHONE OUTLETS SHALL BE LOCATED AS NOTED ON DRAWINGS.

JUNCTION AND PULL BOXES

- THE PLANS INDICATE ONLY SCHEMATIC ROUTINGS FOR CONDUIT RUNS. THIS CONTRACTOR SHALL FURNISH AND INSTALL ADDITIONAL BOXES WHERE REQUIRED BY FIELD CONDITIONS OR BY CODE.
- 2. BOXES AND COVERS SHALL BE GALVANIZED STEEL OF CODE GAUGE SIZE. 3. INSTALL BOXES RIGIDLY SUPPORTED FROM THE BUILDING STRUCTURE AND SUPPORTED INDEPENDENT OF THE CONDUIT SYSTEM
- D. 4. ARRANGE CIRCUITS TO AVOID THE USE OF JUNCTION BOXES IN INACCESSIBLE LOCATIONS. THE USE OF JUNCTION BOXES ABOVE DRYWALL CEILINGS SHOULD BE LIMITED TO LOCATIONS NEAR ACCESS FRAMES USED FOR DIFFUSERS AND RETURN AIR GRILLES OR ACCESS PANELS AS LOCATED ON PLANS.
- 5. JUNCTION AND PULL BOXES MUST BE LABELED WITH CIRCUIT NUMBER IDENTIFICATION AND SYSTEM TYPE ON COVER.

WIRING

- 1. CONDUCTORS FOR FEEDERS AND BRANCH CIRCUITS SHALL BE COPPER AND THE AWG SIZE AND TYPE AS SHOWN ON DRAWINGS. MINIMUM WIRE SIZE #12. THE CONDUCTORS SHALL BE 600 VOLT INSULATION, TYPE THW, THWN OR
- 2. MINIMUM WIRE SIZE 20 AMP BRANCH CIRCUIT SHALL BE AWG LISTED SIZE PER DISTANCE SHOWN BELOW. DISTANCE SHALL BE MEASURED FROM THE PANELBOARD CIRCUIT BREAKER TO THE FURTHEST OUTLET. a. #12 LESS THAN 100 FEET
- b. #10 BETWEEN 100-150 FEET
- c. #8 BETWEEN 150 250 FEET
- d. #6 OVER 250 FEET

STRANDED).

- 3. ON ALL 20 AMP BRANCH CIRCUITS, CONDUCTORS LARGER THAN #10 AWG SHALL BE REDUCED TO #10 AWG WITHIN 10 FEET OF PANEL BOARD AND DEVICE IN JUNCTION BOXES ON RATED TERMINAL STRIPS.
- 4. CONDUCTORS MAY BE STRANDED FOR SIZES #10 AWG AND LARGER. CONDUCTORS SIZE #12 SHALL BE SOLID (NOT
- 5 ALUMINUM CONDUCTORS ARE NOT PERMITTED. EXCEPT AT SERVICE ENTRANCE, WHERE REQUIRED BY LANDLORD CONDUCTOR CONNECTION MUST BE PER MANUFACTURER'S REQUIREMENTS, CONTRACTOR MUST OBTAIN WRITTEN
- PERMISSION FROM GENERAL CONTRACTOR AND PROJECT MANAGER WHEN USED. 6. ALL WIRING SHALL BE IN CONDUIT, UNLESS SPECIFICALLY NOTED OTHERWISE (IE. LOW VOLTAGE PLENUM RATED
- 7. THE USE OF SHARED NEUTRALS IS REQUIRED FOR LIGHTING CIRCUITS AND SHALL BE INSTALLED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE AND LOCAL CODES. ALL OTHER EQUIPMENT REQUIRING A NEUTRAL CONDUCTOR SHALL HAVE A DEDICATED FULL SIZE NEUTRAL.
- 8. THE USE OF ROMEX, BX, ETC. IS PERMITTED ONLY IN RESIDENTIAL CONSTRUCTION NOT HIGHER THAN THREE

NEUTRAL - GRAY

- 9. WIRE CONNECTORS SHALL BE EQUAL TO "SCOTCH LOCK" FOR #8 AWG WIRE AND SMALLER AND EQUAL TO T & B "LOCKTIGHT" FOR #6 AWG AND LARGER.
- 10. ALL WIRING TO BE COLOR-CODED AS FOLLOWS: 277/480 VOLT SYSTEM
  - PHASE A OR L1 YELLOW PHASE B 0R L2 - ORANGE PHASE C OR L3 - BROWN **GROUND - GREEN WITH YELLOW TRACER**

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CLG. WALL FLR.

SYMBOL NOTES: SYMBOL LIST SHOW IN FOR REFER TO DRAWING FOR SPECIFIC SYMBOLS USED.

ABBRE\

(N) / (E)

120/208 VOLT SYSTEM **NEUTRAL - WHITE** PHASE A OR L1 - BLACK PHASE B 0R L2 - RED PHASE C OR L3 - BLUE GROUND - GREEN

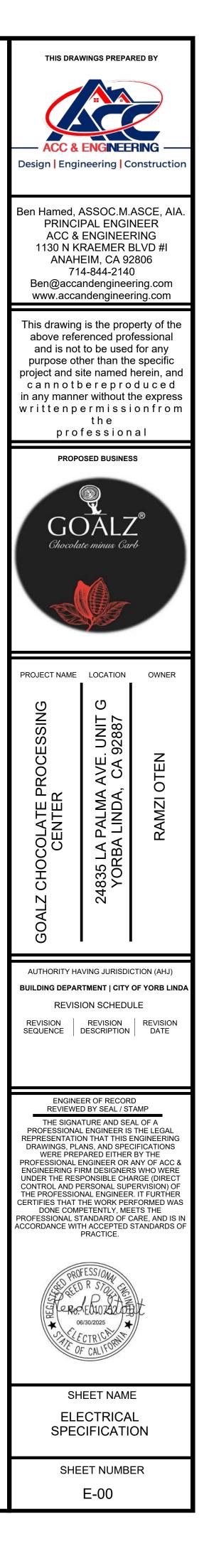
DESCRIPTION	
RECEPTACLE AT +15" FOR WALL MOUNTED U.O.N.	
DUPLEX RECEPTACLE AT + 15" FOR WALL MOUNTED U.O.N.	
) FAULT INTERRUPTING DUPLEX RECEPTACLE	
RECEPTACLE WITH USB 2.0 PORT	
RECEPTACLE. SEE EQUIPMENT PLAN/INSTALLATION MANUAL FOR SPECS AND DETAILS.	
DN BOX	
ATION TELEPHONE, DATA AND CABLE OUTLET AT +18" U.O.N. E 1/2"C.O. STUBBED TO ACCESSIBLE CEILING SPACE	
ONE OUTLET; CAT5E CABLE. RJ11 TERMINATION MOUNTED AT +18"	
E 1/2"C.O. STUBBED TO ACCESSIBLE CEILING SPACE JTLET; CAT5E CABLE, RJ45 TERMINATION MOUNTED AT +18" U.O.N.	
E 1/2"C.O. STUBBED TO ACCESSIBLE CEILING SPACE	
E 1/2"C.O. STUBBED TO ACCESSIBLE CEILING SPACE G FIXTURE WITH 90 MIN. EMER. BATTERY PACK OR ON INVERTER	
HT FIXTURE SCHEDULE FOR DETAILS AND SPECS	
T CONCEALED ABOVE CEILING OR IN WALLS	
JN TO PANEL "A", CIRCUITS #1	
) CONNECTOR	
CAL PANEL. REFER TO PANEL SCHEDULE FOR DETAILS.	
/ITCHBOARD OR POWER DISTRIBUTION BOARD. VERIFY DIMENSION WITH VENDER/MANUFA	
S EQUIPMENT #1, SEE EQUIPMENT SCHEDULE FOR THE DETAILS AND EXACT SPECIFICATIO	NS.
ES PLAN NOTE NUMBER "1", SEE PLAN	
S MECHANICAL EQUIPMENT #1 SEE MECHANICAL DRAWINGS FOR THE DETAILS AND SPECIF	
POLE SWITCH AT 48" U.O.N.	
NAY SWITCH AT +48" U.O.N.	
MOTOR STARTER	
SWITCH AT +48" U.O.N.	
NCY AUTOMATIC WALL SWITCH SENSOR WITH SINGLE LEVEL	
Y AUTOMATIC WALL SWITCH SENSOR WITH SINGLE LEVEL NG AT +48" U.O.N./MANUFACTURER TO BE DETERMINED	
NCY SENSOR SINGLE POLE SWITCH WITH DIMMER CONTROL E AT +48" U.O.N./MANUFACTURER TO BE DETERMINED	
MOUNTED OCCUPANCY SENSOR CTURER TO BE DETERMINED	
MOUNTED VACANCY SENSOR CTURER TO BE DETERMINED	
MOUNTED DAYLIGHT SENSOR CTURER TO BE DETERMINED	
IRED, WITH BATTERY BACKUP, SMOKE DETECTOR/CARBON MONOXIDE DETECTOR/MULTI-PU I MONIXIDE & SMOKE DETECTOR.	JRPOSE
SED/FUSED SWITCH, SIZE AS SHOWN IN THE PLAN	
OUTLET - IDENTIFICATION	
OCK WITH MANUAL BY-PASS SWITCH HTING CONTROL DIAGRAM FOR DETAILS	
ENOID-SEE PLUMBING PLAN FOR EXACT LOCATION.	
IT LIMITER FOR TRACK LIGHTING FIXTURE. 1A RATED U.O.N.	

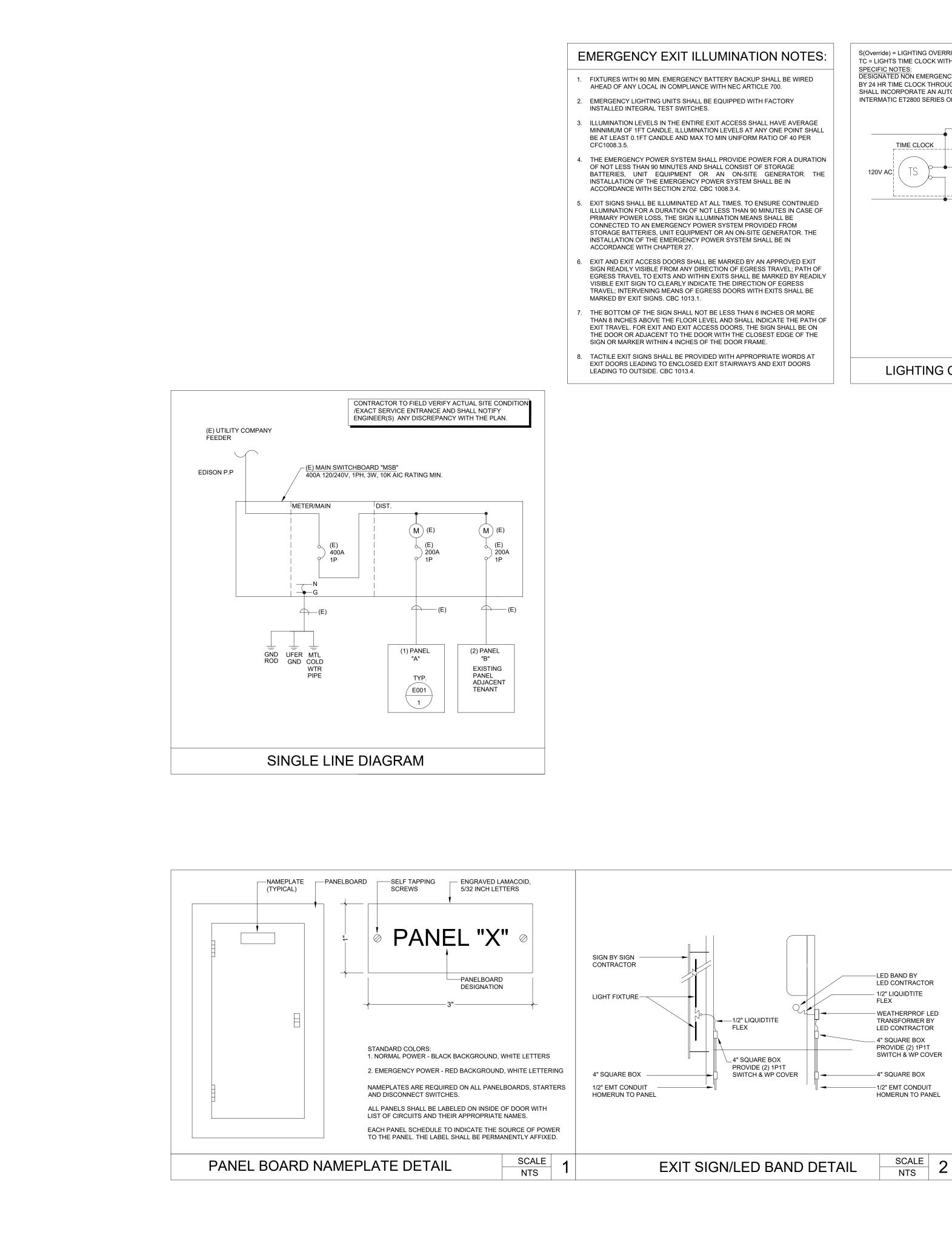
# SCOPE OF WORK

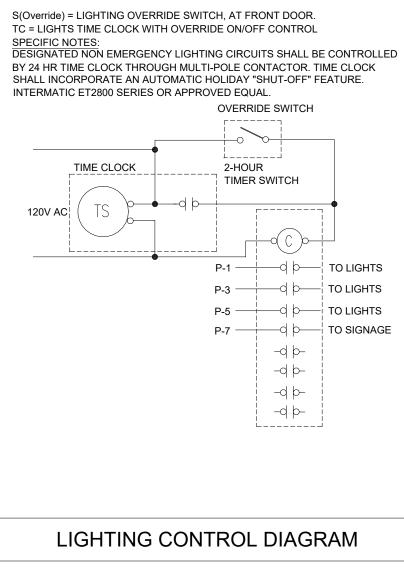
EXISTING COMMERCIAL TENANT IMPROVEMENT RE-USE EXISTING POWER OUTLETS & EXISTING LIGHT FIXTURES NO NEW LIGHTING FIXTURES/CONNECTIONS TO THE RENOVATED AREAS.

NEW CIRCUIT TO THE PROPOSED WATER HEATER.

EXISTING MAIN SERVICE FEEDER FROM BUILDING ELECTRICAL ROOM.







# 120V, SINGLE POLE, MAX 3% VOLTAGE DROP

			LENGTH OF	RUN		
	25'	50'	100'	150'	200'	AMP LOAD
COPPER	14	12	10	8	6	15 AMP
COPPER	12	12	8	6	4	20AMP
COPPER	10	10	6	4	4	30 AMP
COPPER	1	1	1	2/0	4/0	100 AMP
ALUMINUM	1/0	1/0	2/0	4/0	300	100 AMP
COPPER	3/0	3/0	3/0	300	500	200 AMP
ALUMINUM	250	250	300	600	900	200 AMP

CONDUCTORS TO THE FARTHEST CONNECTED LOAD OR OUTLET SHALL NOT EXCEED 5 PERCENT.

# **Branch Panel: A**

Location: WAREHOUSE 20 Supply From: Mounting: Surface Enclosure:

Volts: 120/240 (E) Phases: 3 Wires: 4

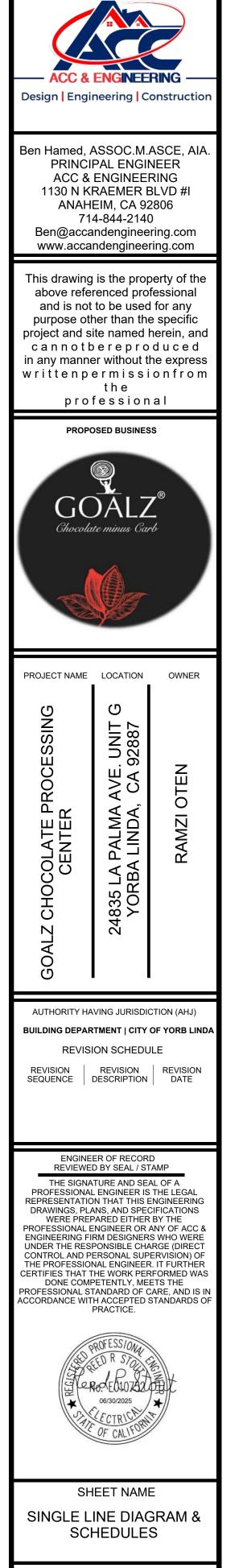
Notes: (E) PANEL CIRCUITS TO BE VERIFIED IN FIELD, INFORM THE ENGINEER IMMEDIATL OF ANY DISCRI

СКТ	Circuit Description	Trip	Poles		Α	1	в	(	2	Poles	Trip	Circuit D	escription	СКТ
1	(E) CIRCUIT INSTANT WATER HEATER	20 A	1	1250	3720					3	60 A	(E) AIR CONDITION	-	2
3	(E) PLUGS	20 A	1			180 VA	3720							4
5	(E) LITES ( LIGHTS )	20 A	1					400 VA	3720					6
7	(E) PLUGS	20 A	1	180 VA	1200					3	20 A	WATER HEATER 12 KW	Ι	8
9	(E) LITES ( LIGHTS )	20 A	1			400 VA	0 VA							10
11	(E) PLUGS	20 A	1					180 VA	0 VA					12
13	(E) SHOP PLUGS 110	20 A	1	360 VA	500 VA					1	20 A	(E) LIGHTES		14
15	(E) SHOP POWER	20 A	1			360 VA	0 VA			1	20 A	(E) LIGHTS		16
17	(N) SPACE UNICA 3.5 KW = 3600 VA	20 A	1					3600	360 VA	1	20 A	(E) PLUGS		18
19	(N) SPACE ELEVATION 4 KW =4000 VA	20 A	1	4000	0 VA					1	20 A	Other CLEANING ROOM	1 38	20
21	(N) SPACE TANK CONTAINER DEPOSITER	20 A	1			1200	2453			1	20 A	Other LAB 21		22
23	(N) SPACE BALLS MILLS = 3.3 KW,3500VA	20 A	1					3500	180 VA	1	20 A	Receptacle LAB 21 (N) C	CONNECTION.	24
25	(E) EV CHARGER	60 A	2	3000	180 VA					1	20 A	Receptacle CHOCOLAT	E PREPARATION ROO	26
27						0 VA	180 VA			1	20 A	Receptacle CHOCOLAT	E PREPARATION ROO	28
29	(N) SPACE COMPATA	20 A	1					3500	360 VA	1	40 A	Receptacle LAB 21		30
31	Spare	20 A	1	0 VA	180 VA					1	20 A	Receptacle LAB 21		32
33	Spare	20 A	1			0 VA	180 VA			1	30 A	Receptacle CHOCOLAT	E PREPARATION ROO	34
35	Spare	20 A	1					0 VA	360 VA	1	30 A	Receptacle CHOCOLAT	E PREPARATION ROO	36
37	Spare	20 A	1	0 VA	180 VA					1	20 A	Receptacle CHOCOLAT	E PREPARATION ROO	38
39	Receptacle CHOCOLATE PREPARATION ROO	20 A	1			180 VA								40
41	TURE - EQUIPMENT.	20 A	1					1296						42
		Tot	al Load:	2555	50 VA	3093	5 VA	1745	6 VA					
		Tota	I Amps:	14	0 A	16	3 A	73	8 A	1				
Load C	lassification	Con	nected I	_oad	Der	nand Fa	ctor	Estim	nated De	mand		Panel	Totals	
Other			25831 VA			100.00%			25831 VA					
Recepta	acle		1980 VA			100.00%	, D		1980 VA			Total Conn. Load:	73941 VA	
Spare			46130 VA	4		100.00%	, D	4	46130 VA	4		Total Est. Demand:	73941 VA	
-												Total Conn.:	178 A	
												Total Est. Demand:	178 A	
					+			-						

1- (E) CIRCUITS TO BE VERIFIED IN FIELD. CONTRACTOR TO TERMINATE ANY UNKNOWN CIRCUIT BREAKERS AND FOLLOW THE CONDUIT OR WIRE RO THE NEAREST J-BOX. AND INFORM THE ENGINEER IMMEDIATLY BEFORE STARTING ANYWORK. 2- FOR THIS PANEL ALL LOADS WERE CALCULATED WITH 100% DEMAND BECAUSE THERE WAS NO AS-BUILDS AVAILABLE FOR THE (E) BUILDING. THE (E) LOADS PLUGS AND LIGHTS WE.

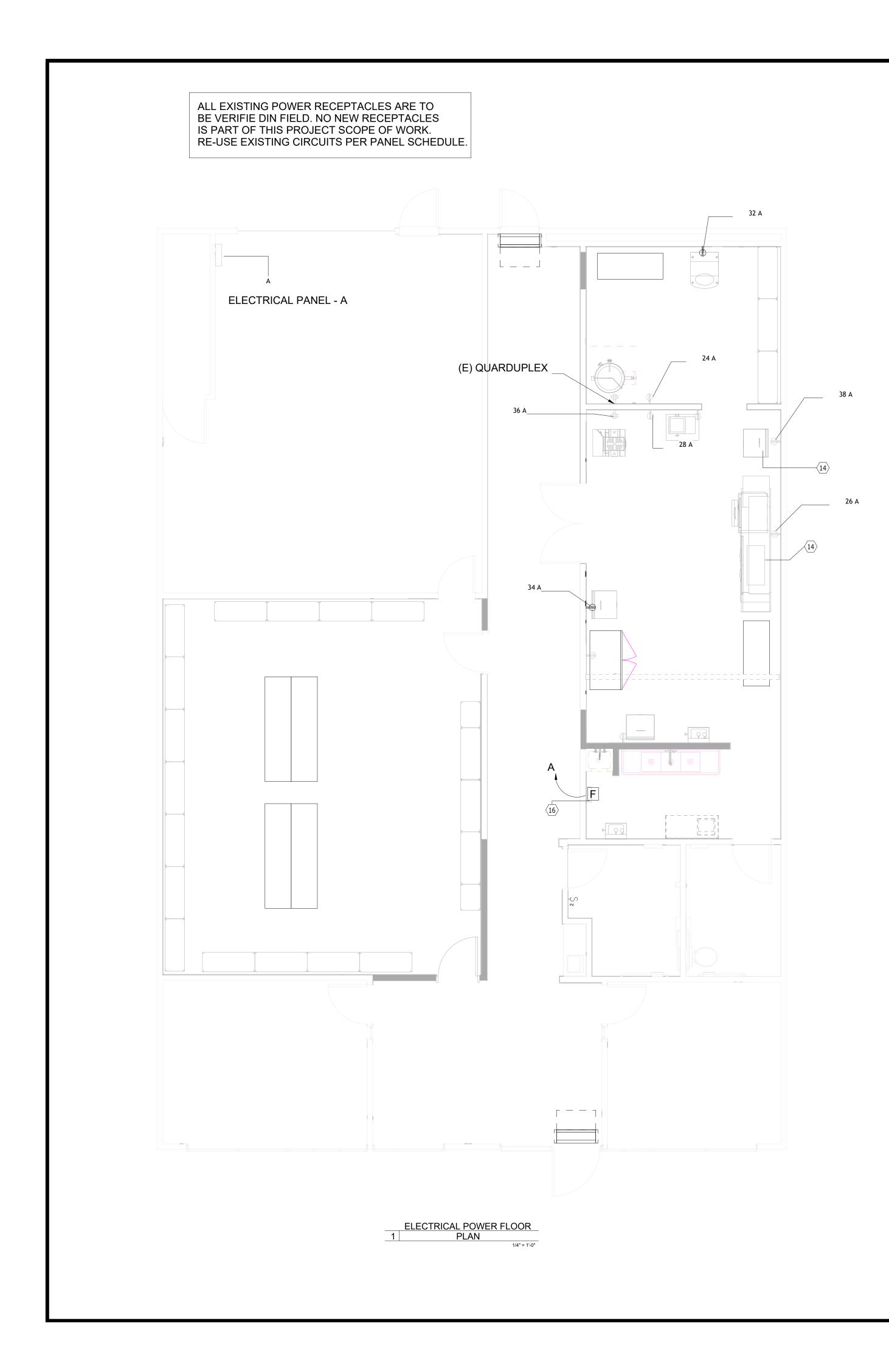
RIPENCIES		
		MCB Rating: 250 A
		Mains Rating: 240 A
		Mains Type:

A.I.C. Rating:



THIS DRAWINGS PREPARED BY

SHEET NUMBER E-01



	ELECTRICAL POWER PLAN SHEET NOTES
TAGX	KEYNOTE DESCRIPTION
14	CONNECT TO EXISTING OUTLET, VERIFY CIRCUIT. 220V, 3 PHASE OR SINGLE, FOLLOW ELECTRICAL PANEL. 220 V, 60 HZ, 3PHASES OR SINGLE 15
16	HARDWIRE TO PANEL P-1, USE DISCONNECT SWITCH PER MANUFACTURE INSTALLATION SPECIFICATIONS. HEATER MUST BE FUSED IN ACCORDANCE WITH NATIONAL ELECTRIC CODE (NEC) FOR THE FULL LOAD AMPERAGE LISTED ON THE NAMEPLATE RATING FOR EACH HEATER. USE A WIRE SIZE RATED FOR MIN. 8 AWG. * BASED ON THE NEC TABLE 310.15 FOR 75°C INSULATED COPPER WIRE @ 30°C AMBIENT. ALUMINUM WIRE REQUIRES LARGER GAUGES. INSTALL EARTH GROUND TO THE LUG PROVIDED WITHIN THE ENCLOSURE.



NATIONA

ENE	GE
ELEC ELEC DEPA	1.
CONC ABOV	2.
WIRE RATIN	3.
COND	4.
ALL E CODE	5.
IF DRA SHALI ACTU	6.
FLEXI PER S	7.
COOR DEVIC	8.
ALL IT FIELD	9.
FIELD V KITCH	10.
RECEP <sup>-</sup> WET L AND I	11.

12.ALL 120V RECEPTACLES IN KITCHEN/SERVICE STORAGE PER CEC DEFINITION OF A KITCHEN (ANYWHERE FOOD OR BEVERAGES ARE PREPARED OR SERVED) ARE TO BE GFI PROTECTED. ANY OTHER RECEPTACLES IDENTIFIED AS GFI PROTECTED SHALL BE GFI DEVICES OR CONNECTED TO GFI CIRCUIT BREAKER OR CONNECTED DOWNSTREAM OF AND PROTECTED BY A GFI DEVICE. PROVIDE GFI PROTECTION AT ALL 125V, 15A OR 20A RECEPTACLES WITHIN 6' OF WATER SOURCES PER SECTION 210.8(B)(5) OF CALIFORNIA ELECTRICAL CODE, 2019 EDITION.

# $\langle \# \rangle$ KEYED POWER PLAN NOTES:

1. VERIFY/COORDINATE EXACT LOCATION FOR ELECTRICAL EQUIPMENTS IN FIELD AND PROVIDE MINIMUM CLEARANCE PER SECTION 110.26 OF NATIONAL ELECTRICAL CODE, 2017 EDITION.

2. VERIFY EXACT ELECTRICAL INSTALLATION REQUIREMENTS WITH MANUFACTURER AND PROVIDE PER RECOMMENDATION.

# ERAL NOTES:

CTRICAL EQUIPMENT SHALL BE LISTED BY U.L. OR CITY RECOGNIZED CTRICAL TESTING LABORATORY OR APPROVED BY THE CITY ARTMENT.

ICEAL ALL WIRING AND CONDUIT IN WALLS, CHASE, UTILITY SPACES OR VE CEILING.

E SIZE SHALL NOT BE LESS THAN CORRESPONDING CIRCUIT BREAKER ING AS REQUIRED BY CODE.

IDUIT SHALL BE SIZED IN ACCORDANCE WITH THE LATEST NEC.

ELECTRICAL WORK SHALL COMPLY WITH THE CALIFORNIA ELECTRICAL E 2019 EDITION.

RAWINGS ARE INCORRECT FROM THE ACTUAL SITE CONDITION, E.C. LL NOTIFY ENGINEER(S) AND PROVIDE INFORMATION REFLECTING JAL CONDITIONS.

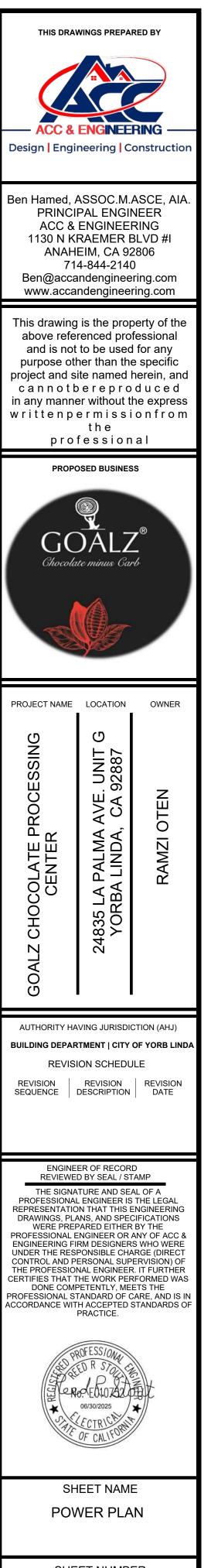
XIBLE CORDS SHALL NOT PASS THROUGH CEILINGS, WALLS OR FLOORS. SECTION 400.8 OF CALIFORNIA ELECTRICAL CODE 2019 EDITION.

ORDINATE LOCATIONS/HEIGHTS OF ALL RECEPTACLES FOR ELECTRICAL ICES WITH ARCHITECT AND OWNER PRIOR TO ROUGH-IN.

ITEMS LABELED/IDENTIFIED AS EXISTING (IF ANY), ARE SUBJECT TO D VERIFICATION.

VERIFY ALL KITCHEN EQUIPMENT INSTALLATION REQUIREMENTS WITH THEN EQUIPMENT SUPPLIER PRIOR TO ROUGH-IN.

RECEPTACLES OF 15 AND 20 AMPERES, 125 AND 250 VOLTS INSTALLED IN A WET LOCATION SHALL HAVE AN ENCLOSURE THAT IS WEATHERPROOF (WP) AND IS LISTED/IDENTIFIED AS "EXTRA DUTY." PER 406.9(B). THE RECEPTACLES SHALL BE LISTED AS THE WEATHER RESISTANT (WR) TYPE AND SHALL BE GFI PROTECTED PER 210.8(B)(4).



SHEET NUMBER E-200