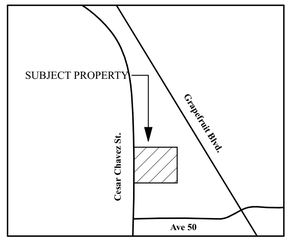
Symbols Legend

1 / D1.1	Annotation Symbol - bottom half for sheet and top for item number
1 / A4.1	Section symbol
A / D 1 A4.1 B / C	Interior Elevation symbol
1 A4.1	Partial Section
A	Door Symbol
1	Window Symbol
AA	Landscape Symbol

Vicinity Map



VMP Night Club & Event Center

49-974 Cesar Chavez Coachella CA
92236

SCOPE OF WORK

New Tenant Improvement,

New Electrical, Plumbing, Mechanical

New Platform Stage

General Notes

Department uses the following codes in the plan check process and in field inspections:

2022 California Mechanical Code
2022 California Plumbing Code
2022 California Electrical Code
2022 California Energy Code
2022 California Building Standards Administrative Code
2022 California Fire Code
2022 California Green Building Code

Occupancy Load

OCCUPANT LOAD ANALYSIS PER TABLE 1004.5 CBC 2022

AREA	SQ.FT. LOAD FACTOR	OCCUPANCY LOAD
ASSEMBLY / FIXED / UNCONCENTRATED / STANDING SPACE	4735 SQ.FT. / 12 / SEC. 1004.5.1	393
RESTROOMS	392 SQ.FT.	0
STORAGE AREA	60 SQ.FT. / 300	1
STAGE AREA	288 SQ.FT. / 5	58
OFFICE AREA	200 SQ.FT. / 150	2
BAR AREA	192 SQ.FT. / 150	2
TOTAL OCCUPANT LOAD	.	456

Acceptance Tests Required per T-24

1. LTG-NRCC-LTI-E FORMS

Coachella Muni. Code

Building Data:

OCCUPANCY	B/A-2
TYPE OF CONSTRUCTION	V-B
ASSEMBLY AREA	4,735 SQ FT.
OFFICE AREA	200 SQ FT.
TOTAL AREA	5,867 SQ FT.
SPRINKLERED	Yes
STORIES	1
JURISDICTION	COACHELLA
USE	NIGHT CLUB
HEIGHT OF BUILDING FT.	30
OCCUPANCY LOAD	456
REQUIRED EXITS PER CBC TABLE 1006.3.3	2
EXITS PROVIDED	2

OCCUPANT LOAD ANALYSIS FOR PLUMBING FIXTURES TABLE 422.1 CPC 2022
4,735 SQ. FT. / 15 = 316
158 MALE, 158 FEMALE
MALE: 3 TOILETS, 3 LAVATORY 2 URINALS 2
FEMALE: 4 TOILETS, 2 LAVATORY

LEGAL DESCRIPTION:

LEGAL ADDRESS :
POR SEC 32 T5S R8E

APN # 603-310-005

Project Information

Project Design & Drawings

Design & drawings by Bob Sipovac Sipovac Construction 72-651 Theodora Ln. Palm Desert Ca. 92260
760-779-0790 Lic # 581636

Project Engineering

N/A

Project Mechanical Design

Sipovac Construction Inc.
72-651 Theodora Lane
Palm Desert, CA 92260
760-567-2347
CSLB # 581636

Owner Information

Daniel Glubaich
175 E Main St. Morgan Hill CA 95037
760-567-2347

CONSTRUCTION HOURS:

October 1 - April 30		May 1 - September 30	
Monday-Friday	7:00am-5:30pm	Monday-Friday	6:00am-7:00pm
Saturday	8:00am-5:00pm	Saturday	8:00am-5:00pm
Sunday	NOT ALLOWED	Sunday	NOT ALLOWED

GOVERNMENT HOLIDAYS NOT ALLOWED

Index to Drawings

T-101	Title Sheet
G-101	Cal Green
G-102	Cal Green
G-103	Cal Green
A-101	Site Plan
A-102	Expanded Site
A-103A	Floor Plan A
A-103B	Floor Plan B
A-103C	Floor Plan C
A-104	Floor Dim
A-105	Reflected Ceiling Plan
A-106	Roof Plan
A-107	Accessibility Details
A-108	Accessibility Details
A-109	Typ. Metal Stud Detail
A-110	Typ. Metal Stud Detail
A-111	T-Bar Ceiling Details
E-1	Elec. General Notes
E-2	Electrical Plan
E-3	Title 24
M-1	Mech Plan
P-1	General Notes
P-2	Plumbing Plan
P-3	Pumbing Details & ISO

LICENSED ARCHITECT
WENDELL W. VEITH
NO. C5297
REN. 11-30-25
STATE OF CALIFORNIA

WENDELL W. VEITH, ARCHITECT #C5297
80-300 ULLSWATER DR., INDIO, CA. 92203
TEL. 1-760-953-4556 E-MAIL - wveith36@yahoo.com

SIPOVAC CONSTRUCTION INNOVATION

CONSULTANTS . . . . . .

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Indio ca. 92203
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CIVIL:

GENERAL CONTRACTOR . . . . . .

Parra Construction

OWNER . . . . . .
Daniel Glubaich
175 E Main St.
Morgan Hill, 95037
760-567-2347
APN # 603-310-005
LEGAL ADDRESS :
POR SEC 32 T5S R8E

MARK	DATE	DESCRIPTION

SCALE:

PROJECT NO: 03282024
MODEL FILE: VMP Event Center. 04.11.24 V27.pln
DRAWN BY: Bob Sipovac
CHK'D BY: #Contact Full Name

SHEET TITLE

Title Sheet

Thursday, August 22, 2024

T-101

SHEET **1** OF **25**

AIA California

2022 CALIFORNIA GREEN BUILDING STANDARDS CODE

NONRESIDENTIAL MANDATORY MEASURES, SHEET 1 (January 2023)

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

Y | N/A | RESPON. PARTY

CHAPTER 3
GREEN BUILDING
SECTION 301 GENERAL

301.1 SCOPE. Buildings shall be designed to include the green building measures specified as mandatory in the application checklists contained in this code. Voluntary green building measures are also included in the application checklists and may be included in the design and construction of structures covered by this code, but are not required unless adopted by a city, county, or city and county as specified in Section 101.7.

301.3 NONRESIDENTIAL ADDITIONS AND ALTERATIONS. [BSC-CG] The provisions of individual sections of Chapter 5 apply to newly constructed buildings, building additions of 1,000 square feet or greater, and/or building alterations with a permit valuation of $200,000 or above (for occupancies within the authority of California Building Standards Commission). Code sections relevant to additions and alterations shall only apply to the portions of the building being added or altered within the scope of the permitted work.

A code section will be designated by a banner to indicate where the code section only applies to newly constructed buildings [N] or to additions and/or alterations [A]. When the code section applies to both, no banner will be used.

301.3.1 Nonresidential additions and alterations that cause updates to plumbing fixtures only:

Note: On and after January 1, 2014, certain commercial real property, as defined in Civil Code Section 1101.3, shall have its noncompliant plumbing fixtures replaced with appropriate water-conserving plumbing fixtures under specific circumstances. See Civil Code Section 1101.1 *et seq.* for definitions, types of commercial real property affected, effective dates, circumstances necessitating replacement of noncompliant plumbing fixtures, and duties and responsibilities for ensuring compliance.

301.3.2 Waste Diversion. The requirements of Section 5.408 shall be required for additions and alterations whenever a permit is required for work.

301.4 PUBLIC SCHOOLS AND COMMUNITY COLLEGES. (see GBSC)
301.5 HEALTH FACILITIES. (see GBSC)

SECTION 302 MIXED OCCUPANCY BUILDINGS

302.1 MIXED OCCUPANCY BUILDINGS. In mixed occupancy buildings, each portion of a building shall comply with the specific green building measures applicable to each specific occupancy.

SECTION 303 PHASED PROJECTS

303.1 PHASED PROJECTS. For shell buildings and others constructed for future tenant improvements, only those code measures relevant to the building components and systems considered to be new construction (or newly constructed) shall apply.

303.1.1 Initial Tenant improvements. The provisions of this code shall apply only to the initial tenant improvements to a project. Subsequent tenant improvements shall comply with the scoping provisions in Section 301.3 non-residential additions and alterations.

ABBREVIATION DEFINITIONS:

HCD	Department of Housing and Community Development
BSC	California Building Standards Commission
DSA-SS	Division of the State Architect, Structural Safety
OSHPD	Office of Statewide Health Planning and Development
LR	Low Rise
HR	High Rise
AA	Additions and Alterations
N	New

CHAPTER 5
NONRESIDENTIAL MANDATORY MEASURES
DIVISION 5.1 PLANNING AND DESIGN

SECTION 5.101 GENERAL

5.101.1 SCOPE
The provisions of this chapter outline planning, design and development methods that include environmentally responsible site selection, building design, building siting and development to protect, restore and enhance the environmental quality of the site and respect the integrity of adjacent properties.

SECTION 5.102 DEFINITIONS

5.102.1 DEFINITIONS
The following terms are defined in Chapter 2 *(and are included here for reference)*

CUTOFF LUMINAIRES. Luminaires whose light distribution is such that the candela per 1000 lamp lumens does not numerically exceed 25 (2.5 percent) at an angle of 90 degrees above nadir, and 100 (10 percent) at a vertical angle of 80 degrees above nadir. This applies to all lateral angles around the luminaire.

LOW-EMITTING AND FUEL EFFICIENT VEHICLES.
Eligible vehicles are limited to the following:

1. Zero emission vehicle (ZEV), enhanced advanced technology PZEV (enhanced AT ZEV) or transitional zero emission vehicles (TZEV) regulated under CCR, Title 13, Section 1962.
2. High-efficiency vehicles, regulated by U.S. EPA, bearing a fuel economy and greenhouse gas rating od 9 oe 10 as regulated under 40 CFR Section 600 Subpart D.

NEIGHBORHOOD ELECTRIC VEHICLE (NEV). A motor vehicle that meets the definition of "low-speed vehicle" either in Section 385.5 of the Vehicle Code or in 49CFR571.500 (as it existed on July 1, 2000), and is certified to zero-emission vehicle standards.

TENANT-OCCUPANTS. Building occupants who inhabit a building during its normal hours of operation as permanent occupants, such as employees, as distinguished from customers and other transient visitors.

VANPOOL VEHICLE. Eligible vehicles are limited to any motor vehicle, other than a motortruck or truck tractor, designed for carrying more than 10 but not more than 15 persons including the driver, which is maintained and used primarily for the nonprofit work-related transportation of adults for the purpose of ridesharing.

Note: Source: Vehicle Code, Division 1, Section 668

ZEV. Any vehicle certified to zero-emission standards.

SECTION 5.106 SITE DEVELOPMENT

5.106.1 STORM WATER POLLUTION PREVENTION FOR PROJECTS THAT DISTURB LESS THAN ONE ACRE OF LAND. Newly constructed projects and additions which disturb less than one acre of land, and are not part of a larger common plan of development or sale, shall prevent the pollution of storm water runoff from the construction activities through one or more of the following measures:

5.106.1.1 Local ordinance. Comply with a lawfully enacted storm water management and/or erosion control ordinance.

5.106.1.2 Best Management Practices (BMPs). Prevent the loss of soil through wind or water erosion by implementing an effective combination of erosion and sediment control and good housekeeping BMPs.

1. Soil loss BMPs that should be considered for implementation as appropriate for each project include, but are not limited to, the following:
   a. Scheduling construction activity during dry weather, when possible.
   b. Preservation of natural features, vegetation, soil, and buffers around surface waters.
   c. Drainage swales or lined ditches to control stormwater flow.
   d. Mulching or hydroseeding to stabilize disturbed soils.
   e. Erosion control to protect slopes.
   f. Protection of storm drain inlets (gravel bags or catch basin inserts).
   g. Perimeter sediment control (perimeter silt fence, fiber rolls).
   h. Sediment trap or sediment basin to retain sediment on site.
   i. Stabilized construction exits.
   j. Wind erosion control.
   k. Other soil loss BMPs acceptable to the enforcing agency.
2. Good housekeeping BMPs to manage construction equipment, materials, non-stormwater discharges and wastes that should be considered for implementation as appropriate for each project include, but are not limited to, the following:
   a. Dewatering activities.
   b. Material handling and waste management.
   c. Building materials stockpile management.
   d. Management of washout areas (concrete, paints, stucco, etc.).
   e. Control of vehicle/equipment fueling to contractor's staging area.
   f. Vehicle and equipment cleaning performed off site.
   g Spill prevention and control.
   h. Other housekeeping BMPs acceptable to the enforcing agency.

Y | N/A | RESPON. PARTY

5.106.2 STORMWATER POLLUTION PREVENTION FOR PROJECTS THAT DISTURB ONE OR MORE ACRES OF LAND. Comply with all lawfully enacted stormwater discharge regulations for projects that (1) disturb one acre or more of land, or (2) disturb less than one acre of land but are part of a larger common plan of development sale.

Note: Projects that (1) disturb one acre or more of land, or (2) disturb less than one acre of land but are part of the larger common plan of development or sale must comply with the post-construction requirements detailed in the applicable National Pollutant Discharge Elimination System (NPDES) General permit for Stormwater Discharges Associated with Construction and Land Disturbance Activities issued by the State Water Resources Control Board or the Lahontan Regional Water Quality Control Board (for projects in the Lake Tahoe Hydrologic Unit).

The NPDES permits require postconstruction runoff (post-project hydrology) to match the preconstruction runoff (pre-project hydrology) with the installation of postconstruction stormwater management measures. The NPDES permits emphasize runoff reduction through on-site stormwater use, interception, evapotranspiration, and infiltration through nonstructural controls, such as Low Impact Development (LID) practices, and conversation design measures. Stormwater volume that cannot be addressed using nonstructural practices is required to be captured in structural practices and be approved by the enforcing agency.

Refer to the current applicable permits on the State Water Resources Control Board website at: www.waterboards.ca.gov/constructionstormwater. Consideration to the stormwater runoff management measures should be given during the initial design process for appropriate integration into site development.

5.106.4 BICYCLE PARKING. For buildings within the authority of California Building Standards Commission as specified in Section 103, comply with Section 5.106.4.1. For buildings within the authority of the Division of the State Architect pursuant to Section 105, comply with Section 5.106.4.2

5.106.4.1 Bicycle parking. [BSC-CG] Comply with Sections 5.106.4.1.1 and 5.106.4.1.2; or meet the applicable local ordinance, whichever is stricter.

5.106.4.1.1 Short-term bicycle parking. If the new project or an addition or alteration is anticipated to generate visitor traffic, provide permanently anchored bicycle racks within 200 feet of the visitors' entrance, readily visible to passers-by, for 5% of new visitor motorized vehicle parking spaces being added, with a minimum of one two-bike capacity rack.
Exception: Additions or alterations which add nine or less visitor vehicular parking spaces.

5.106.4.1.2 Long-term bicycle parking. For new buildings with tenant spaces that have 10 or more tenant-occupants, provide secure bicycle parking for 5 percent of the tenant-occupant vehicular parking spaces with a minimum of one bicycle parking facility.

5.106.4.1.3 For additions or alterations that add 10 or more tenant-occupant vehicular parking spaces, provide secure bicycle parking for 5 percent of the tenant vehicular parking spaces being added, with a minimum of one bicycle parking facility.

5.106.4.1.4 For new shell buildings in phased projects provide secure bicycle parking for 5 percent of the anticipated tenant-occupant vehicular parking spaces with a minimum of one bicycle parking facility.

5.106.4.1.5 Acceptable bicycle parking facility for Sections 5.106.4.1.2, 5.106.4.1.3, and 5.106.4.1.4 shall be convenient from the street and shall meet one of the following:

1. Covered, lockable enclosures with permanently anchored racks for bicycles;
2. Lockable bicycle rooms with permanently anchored racks; or
3. Lockable, permanently anchored bicycle lockers.

Note: Additional information on recommended bicycle accommodations may be obtained from Sacramento Area Bicycle Advocates.

5.106.4.2 Bicycle parking. [DSA-SS] For public schools and community colleges, comply with Sections 5.106.4.2.1 and 5.106.4.2.2

5.106.4.2.1 Student bicycle parking. Provide permanently anchored bicycle racks conveniently accessed with a minimum of four two-bike capacity racks per new building.
5.106.4.2.2 Staff bicycle parking. Provide permanent, secure bicycle parking conveniently accessed with a minimum of two staff bicycle parking spaces per new building. Acceptable bicycle parking facilities shall be convenient from the street or staff parking area and shall meet one of the following:

1. Covered, lockable enclosures with permanently anchored racks for bicycles;
2. Lockable bicycle rooms with permanently anchored racks; or
3. Lockable, permanently anchored bicycle lockers.

5.106.5.3 Electric vehicle (EV) charging. [N] Construction to provide electric vehicle infrastructure and facilitate electric vehicle charging shall comply with Section 5.106.5.3.1 and shall be provided in accordance with regulations in the California Building Code and the California Electrical Code.

Exceptions:
1. On a case-by-case basis where the local enforcing agency has determined compliance with this section is not feasible based upon one of the following conditions:
   a. Where there is no local utility power supply
   b. Where the local utility is unable to supply adequate power.
   c. Where there is evidence suitable to the local enforcing agency substantiating that local utility infrastructure design requirements, directly related to the implementation of Section 5.106.5.3, may adversely impact the construction cost of the project.
2. Parking spaces accessible only by automated mechanical car parking systems are not required to comply with this code section

5.106.5.3.1 EV capable spaces.
[N] EV capable spaces shall be provided in accordance with Table 5.106.5.3.1 and the following requirements:
1. Raceways complying with the California Electrical Code and no less that 1-inch (25 mm) diameter shall be provided and shall originate at a service panel or a subpanel(s) serving the area, and shall terminate in close proximity to the proposed location of the EV capable and into a suitable listed cabinet, box,enclosure or equivalent. A common raceway may be used to serve multiple EV charging spaces.
2. A service panel or subpanel (s) shall be provided with panel space and electrical load capacity for a dedicated 208/240 volt, 40-ampere minimum branch circuit for each EV capable space, with delivery of 30-ampere minimum to an installed EVSE at each EVCS.
3. The electrical system and any on-site distribution transformers shall have sufficient capacity to supply full rated amperage at each EV capable space.
4. The service panel or subpanel circuit directory shall identify the reserved overcurrent protective devices space(s) as "EV CAPABLE". The raceway termination location shall be permanently and visibly marked as "EV CAPABLE."

Note: A parking space served by electric vehicle supply equipment or designed as a future EV charging space shall count as at least one standard automobile parking space only for the purpose of complying with any applicable minimum parking space requirements established by an enforcement agency. See vehicle Code Section 22511.2 for further details.

TABLE 5.106.5.3.1

TOTAL NUMBER OF ACTUAL PARKING SPACES	NUMBER OF REQUIRED EV CAPABLE SPACES	NUMBER OF EVCS (EV CAPABLE SPACES PROVIDED WITH EVSE)^2
0-9	0	0
10-25	2	0
26-50	8	2
51-75	13	3
76-100	17	4
101-150	25	6
151-200	35	9
201 AND OVER	20% of total[1]	25% of EV capable spaces[1]

1. Where there is insufficient electrical supply.
2. The number of required EVCS (EV capable spaces provided with EVSE) in column 3 count towards the total number of required EV capable spaces shown in column 2.

5.106.5.3.2 Electric vehicle charging stations (EVCS)
EV capable spaces shall be provided with EVSE to create EVCS in the number indicated in Table 5.106.5.3.1. The EVCS required by Table 5.106.5.3.1 may be provided with EVSE in any combination of Level 2 and Direct Current Fast Charging (DCFC), except that at least one Level 2 EVSE shall be provided.

One EV charger with multiple connectors capable of charging multiple EVs simultaneously shall be permitted if the electrical load capacity required by Section 5.106.5.3.1 for each EV capable space is accumulatively supplied to the EV charger.

The installation of each DCFC EVSE shall be permitted to reduce the minimum number of required EV capable spaces without EVSE by five and reduce proportionally the required electrical load capacity to the service panel or subpanel.

Y | N/A | RESPON. PARTY

5.106.5.3.3 Use of automatic load management systems (ALMS).
ALMS shall be permitted for EVCS. When ALMS is installed, the required electrical load capacity specified in Section
5.106.5.3.1 for each EVCS may be reduced when serviced by an EVSE controlled by an ALMS. Each EVSE controlled by an ALMS shall deliver a minimum 30 amperes to an EV when charging one vehicle and shall deliver a minimum 3.3 kW while simultaneously charging multiple EVs.

5.106.5.3.4 Accessible EVCS.
When EVSE is installed, accessible EVSC shall be provided in accordance with the *California Building Code*, Chapter 11B, Section 11B-228.3.
Note: For EVCS signs, refer to Caltrans Traffic Operations Policy Directive 13-01 (Zero Emission Vehicle 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 loading spaces shall also comply with Section 5.106.5.4.1 for future installation of medium- and heavy-duty EVSE.
Exceptions:
1. On a case-by-case basis where the local enforcing agency has determined compliance with this section is not feasible based upon one of the following conditions:
   a. Where there is no local utility power supply.
   b. Where the local utility is unable to supply adequate power.
   c. Where there is evidence suitable to the local enforcing agency substantiating that additional local utility infrastructure design requirements, directly related to the implementation of Section 5.106.5.3, may adversely impact the construction cost of the project.

When EVSE(s) is/are installed, it shall be in accordance with the *California Building Code*, the *California Electrical Code* and as follows:

5.106.5.4.1 Electric vehicle charging readiness requirements for warehouse, grocery stores and retail stores with planned off-street loading spaces.
[N] In order to avoid future demolition when adding EV charging supply and distribution equipment, spare raceways(s) or busway(s) and adequate capacity for transformers(s), service panels(s) or subpanel(s) shall be installed at the time of construction in accordance with the California Electrical Code. Construction plans and specifications shall include but are not limited to, the following:
1. The transformer, main service equipment and subpanel shall meet the minimum power requirement in Table 5.106.5.4.1 to accommodate the dedicated branch circuits for the future installation of EVSE.
2. The construction documents shall indicate on or more location(s) convenient to the planned offstreet loading space(s) reserved for medium-and heavy-duty ZEV charging cabinets and charging dispensers, and a pathway reserved for routing of conduit from the termination of the raceway(s) or busway(s) to the charging cabinet(s) and dispenser(s) as shown in Table 5.106.5.4.1
3. Raceway(s) or busway(s) originating at a main service panel or a subpanel(s) serving the area where potential future medium-and heavy-duty EVSE will be located and shall terminate in close proximity to the potential future location of the charging equipments for medium- and heavy-duty vehicles.
4. The raceway(s) or busway(s) shall be sufficient size to carry the minimum additional system load to the future location of the charging for medium- and heavy-duty ZEVs as shown in Table 5.106.5.4.1.

TABLE 5.106.5.4.1 RACEWAY CONDUIT AND PANEL POWER REQUIREMENTS FOR MEDIUM- AND HEAVY-DUTY EVSE [N]

BUILDING TYPE	BUILDING SIZE (SQ. FT.)	NUMBER OF OFF-STREET LOADING SPACES	ADDITIONAL CAPACITY REQUIRED (KVA) FOR RACEWAY & BUSWAY AND TRANSFORMER & PANEL
Grocery	10,000 to 90,000	1 or 2	200
		3 or Greater	400
	Greater than 90,000	1 or Greater	400
Retail	10,000 to 135,000	1 or 2	200
		3 or Greater	400
	Greater than 135,000	1 or Greater	400
Warehouse	20,000 to 256,000	1 or 2	200
		3 or Greater	400
	Greater than 256,000	1 or Greater	400

5.106.8 LIGHT POLLUTION REDUCTION. [N], I Outdoor lighting systems shall be designed and installed to comply with the following:

1. The minimum requirements in the California Energy Code for Lighting Zones 0-4 as defined in Chapter 10, Section 10-114 of the California Administrative Code; and
2. Backlight (B) ratings as defined in IES TM-15-11 (shown in Table A-1 in Chapter 8);
3. Uplight and Glare ratings as defined in California Energy Code (shown in Tables 130.2-A and 130.2-B in Chapter 8) and
4. Allowable BUG ratings not exceeding those shown in Table 5.106.8. [N] or Comply with a local ordinance lawfully enacted pursuant to Section 101.7, whichever is more stringent.

Exceptions: [N]

1. Luminaires that qualify as exceptions in Sections 130.2 (b) and 140.7 of the California Energy Code.
2. Emergency lighting.
3. Building facade meeting the requirements in Table 140.7-B of the California Energy Code, Part 6.
4. Custom lighting features as allowed by the local enforcing agency, as permitted by Section 101.8 Alternate materials, designs and methods of construction.
5. Luminaires with less than 6,200 initial luminaire lumens.

TABLE 5.106.8 [N] MAXIMUM ALLOWABLE BACKLIGHT, UPLIGHT AND GLARE (BUG) RATINGS [1,2]

ALLOWABLE RATING	LIGHTING ZONE LZ0	LIGHTING ZONE LZ1	LIGHTING ZONE LZ2	LIGHTING ZONE LZ3	LIGHTING ZONE LZ4
MAXIMUM ALLOWABLE BACKLIGHT RATING [3]					
Luminaire greater than 2 mounting heights (MH) from property line	N/A	No Limit	No Limit	No Limit	No Limit
Luminaire back hemisphere is 1-2 MH from property line	N/A	B2	B3	B4	B4
Luminaire back hemisphere is 0.5-1 MH from property line	N/A	B1	B2	B3	B3
Luminaire back hemisphere is less than 0.5 MH from property line	N/A	B0	B0	B1	B2
MAXIMUM ALLOWABLE UPLIGHT RATING (U)					
For area lighting [3]	N/A	U0	U0	U0	U0
For all other outdoor lighting,including decorative luminaires	N/A	U1	U2	U3	UR

Y | N/A | RESPON. PARTY

MAXIMUM ALLOWABLE GLARE RATING [3] (G)					
MAXIMUM ALLOWABLE GLARE RATING [3] (G)	N/A	G1	G2	G3	G4
MAXIMUM ALLOWABLE GLARE RATING [3] (G)	N/A	G0	G1	G1	G2
MAXIMUM ALLOWABLE GLARE RATING [3] (G)	N/A	G0	G0	G1	G1
MAXIMUM ALLOWABLE GLARE RATING [3] (G)	N/A	G0	G0	G0	G1

1. IESNA Lighting Zones 0 and 5 are not applicable; refer to Lighting Zones as defined in the *California Energy Code* and Chapter 10 of the *California Administrative Code.*

2. For property lines that abut public walkways, bikeways, plazas and parking lots, the property line may be considered to be 5 feet beyond the actual property line for purpose of determining compliance with this section. For property lines that abut public roadways and public transit corridors, the property line may be considered to be the centerline of the public roadway or public transit corridor for the purpose of determining compliance with this section.

3. General lighting luminaires in areas such as outdoor parking, sales or storage lots shall meet these reduced ratings. Decorative luminaries located in these areas shall meet *U*-value limits for "all other outdoor lighting"

5.106.8.1 Facing- Backlight
Luminaires within 2MH of a property line shall be oriented so that the nearest property line is behind the fixture, and shall comply with the backlight rating specified in Table 5.106.8 based on the lighting zone and distance to the nearest point of that property line.
Exception: Corners. If two property lines (or two segments of the same property line) have equidistant point to the luminaire, then the luminaire may be oriented so that the intersection of the two lines (the corner) is directly behind the luminaire. The luminaire shall still use the distance to the nearest points(s) on the property lines to determine the required backlight rating.

5.106.8.2 Facing-Glare.
For luminaires covered by 5.106.8.1, if a property line also exists within or extends into the front hemisphere within 2MH of the luminaire then the luminaire shall comply with the more stringent glare rating specified in Table 5.106.8 based on the lighting zone and distance to the nearest point on the nearest property line within the front hemisphere.

Note: [N]
1.See also *California Building Code*, Chapter 12, Section 1205.6 for college campus lighting requirements for parking facilities and walkways.
2.Refer to Chapter 8 (Compliance Forms, Worksheets and Reference Material) for IES TM-15-11 Table A-1, *California Energy Code* Tables 130.2-A and 130.2-B.
3. Refer to the *California Building Code* for requirements for additions and alterations.

5.106.10 GRADING AND PAVING. Construction plans shall indicate how site grading or a drainage system will manage all surface water flows to keep water from entering buildings. Examples of methods to manage surface water include, but are not limited to, the following:

1. Swales.
2. Water collection and disposal systems.
3. French drains.
4. Water retention gardens.
5. Other water measures which keep surface water away from buildings and aid in groundwater recharge.
Exception: Additions and alterations not altering the drainage path.

5.106.12 SHADE TREES [DSA-SS]. Shade Trees shall be planted to comply with Sections 5.106.12.1, 5.106.12.2, and 5.106.12.3. Percentages shown shall be measured at noon on the summer solstice. Landscape irrigation necessary to establish and maintain tree health shall comply with Section 5.304.6.

5.106.12.1 Surface parking areas. Shade tree plantings, minimum #10 container size or equal, shall be installed to provide shade over 50 percent of the parking area within 15 years.

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

5.106.12.2 Landscape areas. Shade tress plantings, minimum #10 container size or equal shall be installed to provide shade of 20% of the landscape area within 15 years.

Exceptions: Playfields for organized sport activity are not included in the total area calculation.

5.106.12.3. Hardscape areas. Shade tree plantings, minimum #10 container size or equal shall be installed to provide shade over 20 percent of the hardscape area within 15 years.

Exceptions:
1. Walks, hardscape areas covered by solar photovoltaic shade structures or shade structures with roofing materials that comply with Table A5.106.11.2.2 in Appendix A5 shall be permitted in whole or in part in lieu of shade tree planting.
2. Designated and marked play areas of organized sport activity are not included in the total area calculation.

DIVISION 5.2 ENERGY EFFICIENCY

SECTION 5.201 GENERAL

5.201.1 Scope [BSC-CG], *California Energy Code [DSA-SS].* For the purposes of mandatory energy efficiency standards in this code, the California Energy Commission will continue to adopt mandatory building standards.

DIVISION 5.3 WATER EFFICIENCY AND CONSERVATION

SECTION 5.301 GENERAL

5.301.1 Scope. The provisions of this chapter shall establish the means of conserving water use indoors, outdoors and in wastewater conveyance.

SECTION 5.302 DEFINITIONS

5.302.1 Definitions. The following terms are defined in Chapter 2 *(and are included here for reference)*

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

FOOTPRINT AREA [DSA-SS]. The total area of the furthest exterior wall of the structure projected to natural grade, not including exterior areas such as stairs, covered walkways, patios and decks.

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

GRAYWATER. Pursuant to Health and Safety Code Section 17922.12, "graywater" means untreated wastewater that has not been contaminated by any toilet discharge, has not been affected by infectious, contaminated, or unhealthy bodily wastes, and does not present a threat from contamination by unhealthful processing, manufacturing, or operating wastes. "Graywater" includes, but is not limited to wastewater from bathtubs, showers, bathroom washbasins, clothes washing machines and laundry tubs, but does not include waste water from kitchen sinks or dishwashers.

MODEL WATER EFFICIENT LANDSCAPE ORDINANCE (MWELO). The California ordinance regulating landscape design, installation and maintenance practices that will ensure commercial, multifamily and other developer installed landscapes greater than 2500 square feet meet an irrigation water budget developed based on landscaped area and climatological parameters.

MODEL WATER EFFICIENT LANDSCAPE ORDINANCE (MWELO), [HCD] The California model ordinance (California Code of Regulations, Title 23, Division 2, Chapter 2.7), regulating landscape design, installation and maintenance practices. Local agencies are required to adopt the updated MWELO, or adopt a local ordinance at least as effective as the MWELO.

POTABLE WATER. Water that is drinkable and meets the U.S. Environmental Protection Agency (EPA) Drinking Water Standards. See definition in the California Plumbing Code, Part 5.

POTABLE WATER. [HCD] Water that is satisfactory for drinking, culinary, and domestic purposes, and meets the U.S. Environmental Protection Agency (EPA) Drinking Water Standards and the requirements of the Health Authority Having Jurisdiction.

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

SUBMETER. [HCD 1] A secondary device beyond a meter that measures water consumption of an individual rental unit within a multiunit residential structure or mixed-use residential and commercial structure. (See Civic Code Section 1954.202 (g) and Water code Section 517 for additional details.)

WATER BUDGET. Is the estimated total landscape irrigation water use which shall not exceed the maximum applied water allowance calculated in accordance with the Department of Water Resources Model Efficient Landscape Ordinance (MWELO).

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MARK	DATE	DESCRIPTION

SCALE:

PROJECT NO: 03282024
MODEL FILE: VMP Event Center. 04.11.24 V27.pln
DRAWN BY: Bob Sipovac
CHK'D BY: #Contact Full Name

SHEET TITLE

Cal Green

Thursday, August 22, 2024

G-101

SHEET 2 OF 25

AIA California

2022 CALIFORNIA GREEN BUILDING STANDARDS CODE

NONRESIDENTIAL MANDATORY MEASURES, SHEET 2 (January 2023)

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

Y | N/A | RESPON. PARTY

SECTION 5.303 INDOOR WATER USE

5.303.1 METERS. Separate submeters or metering devices shall be installed for the uses described in Sections 503.1.1 and 503.1.2.

5.303.1.1 Buildings in excess of 50,000 square feet. Separate submeters shall be installed as follows:

1. For each individual leased, rented or other tenant space within the building projected to consume 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.
2. Where separate submeters for individual building tenants are unfeasible, for water supplied to the 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).
   c. Steam and hot water boilers with energy input more than 500,000 Btu/h (147 kW).

5.303.1.2 Excess consumption. A separate submeter or metering device shall be provided for any tenant within a new building or within an addition that is projected to consume more than 1,000 gal/day.

GC **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:

GC **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 WaterSense Specification for Tank-Type toilets.

Note: The effective flush volume of dual flush toilets is defined as the composite, average flush volume of two reduced flushes and one full flush.

GC **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.

5.303.3.2.2 Floor-mounted Urinals. The effective flush volume of floor-mounted or other urinals shall not exceed 0.5 gallons per flush.

✓ **5.303.3.3 Showerheads. [BSC-CG]**
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.

5.303.3.3.2 Multiple showerheads serving one shower. 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 allow only one shower outlet to be in operation at a time.
Note: A hand-held shower shall be considered a showerhead.

GC **5.303.3.4 Faucets and fountains.**

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.

5.303.3.4.2 Kitchen faucets. 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.

5.303.3.4.3 Wash fountains. Wash fountains shall have a maximum flow rate of not more than1.8 gallons per minute/20 [rim space (inches) at 60 psi].

5.303.3.4.4 Metering faucets. Metering faucets shall not deliver more than 0.20 gallons per cycle.

5.303.3.4.5 Metering faucets for wash fountains. Metering faucets for wash fountains shall have a 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 reduction.

5.303.3.4.6 Pre-rinse spray value
When installed, shall meet the requirements in the *California Code of Regulations*, Title 20 (Appliance 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.

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).

TABLE H-2

STANDARDS FOR COMMERCIAL PRE-RINSE SPRAY VALUES MANUFACTURED ON OR AFTER JANUARY 28, 2019

PRODUCT CLASS [spray force in ounce force (ozf)]	MAXIMUM FLOW RATE (gpm)
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)	1.28

✓ **5.303.4 COMMERCIAL KITCHEN EQUIPMENT.**

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.
Note: This code section does not affect local jurisdiction authority to prohibit or require disposer installation.

5.303.5 AREAS OF ADDITION OR ALTERATION. For those occupancies within the authority of the California Building Standards Commission as specified in Section 103, the provisions of Section 5.303.3 and 5.303.4 shall apply to new fixtures in additions or areas of alteration to the building.

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 of the *California Plumbing Code* and in Chapter 6 of this code.

SECTION 5.304 OUTDOOR WATER USE

✓ **5.304.1 OUTDOOR POTABLE WATER USE IN LANDSCAPE AREAS.** Nonresidential developments shall comply with a local water efficient landscape ordinance or the current California Department of Water Resources' Model Water Efficient Landscape Ordinance (MWELO), whichever is more stringent.

Notes:
1. The Model Water Efficient Landscape Ordinance (MWELO) is located in the California Code of Regulations, Title 23, Chapter 2.7, Division 2.
2. MWELO and supporting documents, including a water budget calculator, are available at: https://www.water.ca.gov/.

✓ **5.304.6 OUTDOOR POTABLE WATER USE IN LANDSCAPE AREAS.** For public schools and community colleges, landscape projects as described in Sections 5.304.6.1 and 5.304.6.2 shall comply with the California Department of Water Resources Model Water Efficient Landscape Ordinance (MWELO) commencing with Section 490 of Chapter 2.7, Division 2, Title 23, *California Code of Regulations*, except that the evapotranspiration adjustment factor (ETAF) shall be 0.65 with an additional water allowance for special landscape areas (SLA) of 0.35.

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.

5.304.6.1 Newly constructed landscapes. New construction projects with an aggregate landscape area equal to or greater than 500 square feet.

5.304.6.2 Rehabilitated landscapes. Rehabilitated landscape projects with an aggregate landscape area equal to or greater than 1,200 square feet.

DIVISION 5.4 MATERIAL CONSERVATION AND RESOURCE EFFICIENCY

SECTION 5.401 GENERAL

5.401.1 SCOPE. The provisions of this chapter shall outline means of achieving material conservation and resource efficiency through protection of buildings from exterior moisture, construction waste diversion, employment of techniques to reduce pollution through recycling of materials, and building commissioning or testing and adjusting.

Y | N/A | RESPON. PARTY

SECTION 5.402 DEFINITIONS

5.402.1 DEFINITIONS. The following terms are defined in Chapter 2 *(and are included here for reference)*

ADJUST. To regulate fluid flow rate and air patterns at the terminal equipment, such as to reduce fan speed or adjust a damper.

BALANCE. To proportion flows within the distribution system, including sub-mains, branches and terminals, according to design quantities.

BUILDING COMMISSIONING. A systematic quality assurance process that spans the entire design and construction process, including verifying and documenting that building systems and components are planned, designed, installed, tested, operated and maintained to meet the owner's project requirements.

ORGANIC WASTE. Food waste, green waste, landscape and pruning wste, nonhazardous wood waste, and food soiled paper waste that is mixed in with food waste.

TEST. A procedure to determine quantitative performance of a system or equipment

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 ordinance, whichever is more stringent.

✓ **5.407.2 MOISTURE CONTROL.** Employ moisture control measures by the following methods.

5.407.2.1 Sprinklers. Design and maintain landscape irrigation systems to prevent spray on structures.

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:

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 such openings plus at least one of the following:

1. An installed awning at least 4 feet in depth.
2. The door is protected by a roof overhang at least 4 feet in depth.
3. The door is recessed at least 4 feet.
4. Other methods which provide equivalent protection.

5.407.2.2.2 Flashing. Install flashings integrated with a drainage plane.

SECTION 5.408 CONSTRUCTION WASTE REDUCTION, DISPOSAL AND RECYCLING

GC **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.

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:

1. Identifies the construction and demolition waste materials to be diverted from disposal by efficient usage, recycling, reuse on the project or salvage for future use or sale.
2. Determines if construction and demolition waste materials will be sorted on-site (source-separated) or bulk mixed (single stream).
3. Identifies diversion facilities where construction and demolition waste material collected will be taken.
4. Specifies that the amount of construction and demolition waste materials diverted shall be calculated by weight or volume, but not by both.

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.

Note: The owner or contractor shall make the determination if the construction and demolition waste material will be diverted by a waste management company.

Exceptions to Sections 5.408.1.1 and 5.408.1.2:

1. Excavated soil and land-clearing debris.
2. Alternate waste reduction methods developed by working with local agencies if diversion or recycle facilities capable of compliance with this item do not exist.
3. Demolition waste meeting local ordinance or calculated in consideration of local recycling facilities and markets.

5.408.1.3 Waste stream reduction alternative. 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.

5.408.1.4 Documentation. Documentation shall be provided to the enforcing agency which demonstrates 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.

Notes:

1. 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-Resources-List-Folder/CALGreen may be used to assist in documenting compliance with the waste management plan.
2. Mixed construction and demolition debris processors can be located at the California Department of Resources Recycling and Recovery (CalRecycle).

✓ **5.408.2 UNIVERSAL WASTE. [A]** 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 materials shall be included in the construction documents.

Note: Refer to the Universal Waste Rule link at: http://www.dtsc.ca.gov/universalwaste/

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.

Exception: Reuse, either on or off-site, of vegetation or soil contaminated by disease or pest infestation.

Notes:

1. 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.
2. For a map of know pest and/or disease quarantine zones, consult with the California Department of Food and Agriculture. (www.cdfa.ca.gov)

SECTION 5.410 BUILDING MAINTENANCE AND OPERATIONS

✓ **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.

Exception: 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.

5.410.1.1 Additions. 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.

Exception: Additions within a tenant space resulting in less than a 30% increase in the tenant space floor area.

5.410.1.2 Sample ordinance. Space allocation for recycling areas shall comply with Chapter 18, Part 3, Division 30 of the *Public Resources Code*. Chapter 18 is known as the California Solid Waste Reuse and Recycling Access Act of 1991 (Act).

Note: A sample ordinance for use by local agencies may be found in Appendix A of the document at the CalRecycle's web site.

Y | N/A | RESPON. PARTY

✓ **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. 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 5.410.2 through 5.410.2.6 shall apply.

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 heating systems and controls, refer to California Energy Code Section 120.8 for commissioning requirements

Commissioning requirements shall include:

1. Owner's or Owner representative's project requirements.
2. Basis of design.
3. Commissioning measures shown in the construction documents.
4. Commissioning plan.
5. Functional performance testing.
6. Documentation and training.
7. Commissioning report.

Exceptions:

1. Unconditioned warehouses of any size.
2. Areas less than 10,000 square feet used for offices or other conditioned accessory spaces within unconditioned warehouses.
3. Tenant improvements less than 10,000 square feet as described in Section 303.1.1.
4. Open parking garages of any size, or open parking garage areas, of any size, within a structure.

Note: For the purposes of this section, unconditioned shall mean a building, area, or room which does not provide heating and or air conditioning.

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*.

5.410.2.1 Owner's or Owner Representative's Project Requirements (OPR). [N] The expectations 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.
2. Building sustainable goals.
3. Indoor environmental quality requirements.
4. Project program, including facility functions and hours of operation, and need for after hours operation.
5. Equipment and systems expectations.
6. Building occupant and operation and maintenance (O&M) personnel expectations.

5.410.2.2 Basis of Design (BOD). [N] 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 cover the following systems:
1. Renewable energy systems.
2. Landscape irrigation systems.
3. Water reuse system.

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:
1. General project information.
2. Commissioning goals.
3. 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 acceptable performance.
4. Commissioning team information.
5. Commissioning process activities, schedules and responsibilities. Plans for the completion of 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 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.

5.410.2.5 Documentation and training. [N] A Systems Manual and Systems Operations Training are required, including Occupational Safety and Health Act (OSHA) requirements in *California Code of Regulations* (CCR), Title 8, Section 5142, and other related regulations.

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.

✓ **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.

5.410.4.2 (Reserved)

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 system and controls, as well 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.

5.410.4.2 Systems. 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:

1. Renewable energy systems.
2. Landscape irrigation systems.
3. Water reuse systems.

5.410.4.3 Procedures. Perform testing and adjusting procedures in accordance with manufacturer's specifications and applicable standards on each system.

5.410.4.3.1 HVAC balancing. In addition to testing and adjusting, before a new space-conditioning system serving a building or space is operated for normal use, the system shall be balanced in accordance with the procedures defined by the Testing Adjusting and Balancing Bureau National Standards; the National Environmental Balancing Bureau Procedural Standards; Associated Air Balance Council National Standards or as approved by the enforcing agency.

Y | N/A | RESPON. PARTY

5.410.4.4 Reporting. After completion of testing, adjusting and balancing, provide a final report of testing signed by the individual responsible for performing these services.

5.410.4.5 Operation and maintenance (O & M) manual. Provide the building owner or representative with detailed operating and maintenance instructions and copies of guaranties/warranties for each system. O & M instructions shall be consistent with OSHA requirements in CCR, Title 8, Section 5142, and other related regulations.

5.410.4.5.1 Inspections and reports. Include a copy of all inspection verifications and reports required by the enforcing agency.

DIVISION 5.5 ENVIRONMENTAL QUALITY

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 neighbors.

SECTION 5.502 DEFINITIONS

5.502.1 DEFINITIONS. The following terms are defined in Chapter 2 *(and are included here for reference)*

ARTERIAL HIGHWAY. A general term denoting a highway primarily for through traffic usually on a continuous route.

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 adjustments have been made.

1 BTU/HOUR. British thermal units per hour, also referred to as Btu. The amount of heat required to raise one pound of water one degree Fahrenheit per hour, a common measure of heat transfer rate. A ton of refrigeration is 12,000 Btu, the amount of heat required to melt a ton (2,000 pounds) of ice at 32º Fahrenheit.

COMMUNITY NOISE EQUIVALENT LEVEL (CNEL). A metric similar to the day-night average sound level (Ldn), except that a 5 decibel adjustment is added to the equivalent continuous sound exposure level for evening hours (7pm to 10pm) in addition to the 10 dB nighttime adjustment used in the Ldn.

COMPOSITE WOOD PRODUCTS. Composite wood products include hardwood plywood, particleboard and medium 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 or 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.

DAY-NIGHT AVERAGE SOUND LEVEL (Ldn). The A-weighted equivalent continuous sound exposure level for a 24-hour period with a 10 dB adjustment added to sound levels occurring during nighttime hours (10p.m. to 7 a.m.).

DECIBEL (db). A measure on a logarithmic scale of the magnitude of a particular quantity (such as sound pressure, sound power, sound intensity) with respect to a reference quantity.

ELECTRIC VEHICLE (EV). 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 motor that draws current from a rechargeable storage battery, fuel cell, photovoltaic array, or other source of electric current. Plug-in hybrid electric vehicles (PHEV) are considered electric vehicles. For purposes of the *California Electrical Code*, off-road, self-propelled electric vehicles, such as industrial trucks, hoists, lifts, transports, golf carts, airline ground 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.

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, devices, power outlets, or apparatus installed specifically for the purpose of transferring energy between the premises wiring and the electric vehicle.

ENERGY EQUIVALENT (NOISE) LEVEL (Leq). The level of a steady noise which would have the same energy as the fluctuating noise level integrated over the time of period of interest.

EXPRESSWAY. An arterial highway for through traffic which may have partial control of access, but which may or may not be divided or have grade separations at intersections.

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 greenhouse 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.

GLOBAL WARMING POTENTIAL VALUE (GWP VALUE). A 100-year GWP value published by the Intergovernmental Panel on Climate Change (IPCC) in either its Second Assessment Report (SAR) (IPCC, 1995); or its Fourth Assessment A-3 Report (AR4) (IPCC, 2007). The SAR GWP values are found in column "SAR (100-yr)" of Table 2.14.; the AR4 GWP values are found in column "100 yr" of Table 2.14.

HIGH-GWP REFRIGERANT. 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 of Federal Regulations, Part 82, sec.82.3 (as amended March 10, 2009)**.**

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.

LOW-GWP REFRIGERANT. A compound used as a heat transfer fluid or gas that: (A) has a GWP value less than 150, and (B) is not an ozone depleting substance as defined in Title 40 of the Code of Federal Regulations, Part 82, sec.82.3 (as amended March 10, 2009).

MERV. Filter minimum efficiency reporting value, based on ASHRAE 52.2–1999.

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 hundreths of a gram (g O^3/g ROC).

PRODUCT-WEIGHTED MIR (PWMIR). 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).

PSIG. Pounds per square inch, guage.

REACTIVE ORGANIC COMPOUND (ROC). Any compound that has the potential, once emitted, to contribute to ozone formation in the troposphere.

SCHRADER ACCESS VALVES. Access fittings with a valve core installed.

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.

SUPERMARKET. For the purposes of Section 5.508.2, a supermarket is any retail food facility with 8,000 square feet or more conditioned area, and that utilizes either refrigerated display cases, or walk-in coolers or freezers connected to remote compressor units or condensing units.

VOC. A volatile organic compound broadly defined as a chemical compound based on carbon chains or rings with 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)

Note: Where specific regulations are cited from different agencies such as SCAQMD, ARB, etc., the VOC definition 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 sealed 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 ordinances.

5.503.1.1 Woodstoves. Woodstoves and pellet stoves shall comply with U.S. EPA New Source Performance Standards (NSPS) emission limits as applicable, and shall have a permanent label indicating they are certified to meet the emission limits.

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 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 occupied during alterration, at the conclusion of construction.

✓ **5.504.3 Covering of duct openings and protection of mechanical equipment during construction.** At the time of rough installation and during storage on the construction site until final startup of the heating, cooling and ventilation equipment, all duct and other related air distribution component openings shall be covered with tape, plastic, sheetmetal or other methods acceptable to the enforcing agency to reduce the amount of dust, water and debris which may enter the system.

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MARK	DATE	DESCRIPTION

SCALE:

PROJECT NO: 03282024
MODEL FILE: VMP Event Center. 04.11.24 V27.pln
DRAWN BY: Bob Sipovac
CHK'D BY: #Contact Full Name

SHEET TITLE

Cal Green

Thursday, August 22, 2024

G-102

SHEET 3 OF 25

2022 CALIFORNIA GREEN BUILDING STANDARDS CODE
NONRESIDENTIAL MANDATORY MEASURES, SHEET 3 (January 2023)

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

Y	N/A	RESPON. PARTY
☐	☐	GC

5.504.4 FINISH MATERIAL POLLUTANT CONTROL. Finish materials shall comply with Sections 5.504.4.1 through 5.504.4.6.

5.504.4.1 Adhesives, sealants and caulks. Adhesives, sealants, and caulks used on the project shall meet the requirements of the following standards:

1. Adhesives, adhesive bonding primers, adhesive primers, sealants, sealant primers and caulks shall comply with local or regional air pollution control or air quality management district rules where applicable, or SCAQMD Rule 1168 VOC limits, as shown in Tables 5.504.4.1 and 5.504.4.2. Such products also shall comply with the Rule 1168 prohibition on the use of certain toxic compounds (chloroform, ethylene dichloride, methylene chloride, perchloroethylene and trichloroethylene), except for aerosol products as specified in subsection 2, below.

2. Aerosol adhesives, and smaller unit sizes of adhesives, and sealant or caulking compounds (in units of product, less packaging, which do not weigh more than one pound and do not consist of more than 16 fluid ounces) shall comply with statewide VOC standards and other requirements, including prohibitions on use of certain toxic compounds, of *California Code of Regulations*, Title 17, commencing with Section 94507.

TABLE 5.504.4.1 - ADHESIVE VOC LIMIT[1,2]

Less Water and Less Exempt Compounds in Grams per Liter

ARCHITECTURAL APPLICATIONS	CURRENT VOC LIMIT
INDOOR CARPET ADHESIVES	50
CARPET PAD ADHESIVES	50
OUTDOOR CARPET ADHESIVES	150
WOOD FLOORING ADHESIVES	100
RUBBER FLOOR ADHESIVES	60
SUBFLOOR ADHESIVES	50
CERAMIC TILE ADHESIVES	65
VCT & ASPHALT TILE ADHESIVES	50
DRYWALL & PANEL ADHESIVES	50
COVE BASE ADHESIVES	50
MULTIPURPOSE CONSTRUCTION ADHESIVES	70
STRUCTURAL GLAZING ADHESIVES	100
SINGLE-PLY ROOF MEMBRANE ADHESIVES	250
OTHER ADHESIVES NOT SPECIFICALLY LISTED	50
SPECIALTY APPLICATIONS	
PVC WELDING	510
CPVC WELDING	490
ABS WELDING	325
PLASTIC CEMENT WELDING	250
ADHESIVE PRIMER FOR PLASTIC	550
CONTACT ADHESIVE	80
SPECIAL PURPOSE CONTACT ADHESIVE	250
STRUCTURAL WOOD MEMBER ADHESIVE	140
TOP & TRIM ADHESIVE	250
SUBSTRATE SPECIFIC APPLICATIONS	
METAL TO METAL	30
PLASTIC FOAMS	50
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.

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

TABLE 5.504.4.2 - SEALANT VOC LIMIT

Less Water and Less Exempt Compounds in Grams per Liter

SEALANTS	CURRENT VOC LIMIT
ARCHITECTURAL	250
MARINE DECK	760
NONMEMBRANE ROOF	300
ROADWAY	250
SINGLE-PLY ROOF MEMBRANE	450
OTHER	420
SEALANT PRIMERS	
ARCHITECTURAL	
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 DISTRICT RULE 1168.

5.504.4.3 Paints and coatings. Architectural paints and coatings shall comply with VOC limits in Table 1 of the ARB Architectural Coatings Suggested Control Measure, as shown in Table 5.504.4.3, unless more stringent local limits apply. The VOC content limit for coatings that do not meet the definitions for the specialty coatings categories listed in Table 5.504.4.3 shall be determined by classifying the coating as a Flat, Nonflat or Nonflat-High Gloss coating, based on its gloss, as defined in Subsections 4.21, 4.36 and 4.37 of the 2007 California Air Resources Board Suggested Control Measure, and the corresponding Flat, Nonflat or Nonflat-High Gloss VOC limit in Table 5.504.4.3 shall apply.

5.504.4.3.1 Aerosol Paints and coatings. Aerosol paints and coatings shall meet the PWMIR Limits for ROC in Section 94522(a)(3) and other requirements, including prohibitions on use of certain toxic compounds and ozone depleting substances, in Sections 94522(c)(2) and (d)(2) of *California Code of Regulations*, Title 17, commencing with Section 94520; and in areas under the jurisdiction of the Bay Area Air Quality Management District additionally comply with the percent VOC by weight of product limits of Regulation 8 Rule 49.

Y	N/A	RESPON. PARTY

TABLE 5.504.4.3 - CONT.

GRAMS OF VOC PER LITER OF COATING, LESS WATER & LESS EXEMPT COMPOUNDS

COATING CATEGORY	CURRENT VOC LIMIT
SPECIALTY COATINGS	
ALUMINUM ROOF COATINGS	400
BASEMENT SPECIALTY COATINGS	400
BITUMINOUS ROOF COATINGS	50
BITUMINOUS ROOF PRIMERS	350
BOND BREAKERS	350
CONCRETE CURING COMPOUNDS	350
CONCRETE/MASONRY SEALERS	100
DRIVEWAY SEALERS	50
DRY FOG COATINGS	150
FAUX FINISHING COATINGS	350
FIRE RESISTIVE COATINGS	350
FLOOR COATINGS	100
FORM-RELEASE COMPOUNDS	250
GRAPHIC ARTS COATINGS (SIGN PAINTS)	500
HIGH-TEMPERATURE COATINGS	420
INDUSTRIAL MAINTENANCE COATINGS	250
LOW SOLIDS COATINGS[1]	120
MAGNESITE CEMENT COATINGS	450
MASTIC TEXTURE COATINGS	100
METALLIC PIGMENTED COATINGS	500
MULTICOLOR COATINGS	250
PRETREATMENT WASH PRIMERS	420
PRIMERS, SEALERS, & UNDERCOATERS	100
REACTIVE PENETRATING SEALERS	350
RECYCLED COATINGS	250
ROOF COATINGS	50
RUST PREVENTATIVE COATINGS	250
SHELLACS:	
CLEAR	730
OPAQUE	550
SPECIALTY PRIMERS, SEALERS & UNDERCOATERS	100
STAINS	250
STONE CONSOLIDANTS	450
SWIMMING POOL COATINGS	340
TRAFFIC MARKING COATINGS	100
TUB & TILE REFINISH COATINGS	420
WATERPROOFING MEMBRANES	250
WOOD COATINGS	275
WOOD PRESERVATIVES	350
ZINC-RICH PRIMERS	340

1. GRAMS OF VOC PER LITER OF COATING, INCLUDING WATER & EXEMPT COMPOUNDS

2. THE SPECIFIED LIMITS REMAIN IN EFFECT UNLESS REVISED LIMITS ARE LISTED IN SUBSEQUENT COLUMNS IN THE TABLE.

3. VALUES IN THIS TABLE ARE DERIVED FROM THOSE SPECIFIED BY THE CALIFORNIA AIR RESOURCES BOARD, ARCHITECTURAL COATINGS SUGGESTED CONTROL MEASURE, FEB. 1, 2008. MORE INFORMATION IS AVAILABLE FROM THE AIR RESOURCES BOARD.

5.504.4.3.2 Verification. Verification of compliance with this section shall be provided at the request of the enforcing agency. Documentation may include, but is not limited to, the following:

1. Manufacturer's product specification
2. Field verification of on-site product containers

5.504.4.4 Carpet Systems.
All carpet installed in the building interior 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 Environmental Chambers." Version 1.2, January 2017 (Emission testing method for California Specifications 01350).

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

5.504.4.4.1 Carpet cushion. All carpet cushion installed in the building interior 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 Environmental Chambers,"Version 1.2, January 2017 (Emission testing method for California Specifications 01350).

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

5.504.4.4.2 Carpet adhesive. All carpet adhesive shall meet the requirements of Table 5.504.4.1.

5.504.4.5 Composite wood products. Hardwood plywood, particleboard and medium density fiberboard composite wood products used on the interior or exterior of the buildings shall meet the requirements for formaldehyde as specified in ARB's Air Toxics Control Measure (ATCM) for Composite Wood (17 CCR 93120 et seq.). Those materials not exempted under the ATCM must meet the specified emission limits, as shown in Table 5.504.4.5.

5.504.4.5.3 Documentation. Verification of compliance with this section shall be provided as requested by the enforcing agency. Documentation shall include at least one of the following:

1. Product certifications and specifications.
2. Chain of custody certifications.
3. Product labeled and invoiced as meeting the Composite Wood Products regulation (see CCR, Title 17, Section 93120, et seq.).
4. Exterior grade products marked as meeting the PS-1 or PS-2 standards of the Engineered Wood Association, the Australian AS/NZS 2269 or European 636 3S standards.
5. Other methods acceptable to the enforcing agency.

TABLE 5.504.4.5 - FORMALDEHYDE LIMITS[1]

MAXIMUM FORMALDEHYDE EMISSIONS IN PARTS PER MILLION

PRODUCT	CURRENT LIMIT
HARDWOOD PLYWOOD VENEER CORE	0.05
HARDWOOD PLYWOOD COMPOSITE CORE	0.05
PARTICLE BOARD	0.09
MEDIUM DENSITY FIBERBOARD	0.11
THIN MEDIUM DENSITY FIBERBOARD[2]	0.13

1. VALUES IN THIS TABLE ARE DERIVED FROM THOSE SPECIFIED BY THE CALIFORNIA AIR RESOURCES BOARD, AIR TOXICS CONTROL MEASURE FOR COMPOSITE WOOD AS TESTED IN ACCORDANCE WITH ASTM E 1333. FOR ADDITIONAL INFORMATION, SEE CALIFORNIA CODE OF REGULATIONS, TITLE 17, SECTIONS 93120 THROUGH 93120.12.

2. THIN MEDIUM DENSITY FIBERBOARD HAS A MAXIMUM THICKNESS OF 5/16 INCHES (8 MM).

Y	N/A	RESPON. PARTY

5.504.4.6 Resilient flooring systems. Where resilient flooring is installed, at least 80 percent of floor area 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 Environmental Chambers," Version 1.2, January 2017 (Emission testing method for California Specifications 01350)

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

5.504.4.6.1 Verification of compliance. Documentation shall be provided verifying that resilient flooring materials meet the pollutant emission limits.

5.504.4.7 Thermal insulation
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, "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.
https://www.cdph.ca.gov/Programs/CCDPHP/DEODC/EHLB/IAQ/Pages/VOC.aspx#material

5.504.4.7.1 Verification of compliance.
Documentation shall be provided verifying that thermal insulation materials meet the pollutant emission limits.

5.504.4.8 Acoustical ceiling and wall panels.
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, " 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.

5.504.4.8.1 Verification of compliance. Documentation shall be provided verifying that acoustical finish materials meet the pollutant emission limits.

5.504.5.3 Filters. In mechanically ventilated buildings, provide regularly occupied areas of the building with air 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 the same value shall be included in the operation and maintenance manual.

Exceptions: Existing mechanical equipment.

5.504.5.3.1 Labeling. Installed filters shall be clearly labeled by the manufacturer indicating the MERV rating.

☐ ☐ ☑ **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 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 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.

SECTION 5.505 INDOOR MOISTURE CONTROL

☐ ☐ ☑ **5.505.1 INDOOR MOISTURE CONTROL.** Buildings shall meet or exceed the provisions of California Building Code, CCR, Title 24, Part 2, Sections 1202 (Ventilation) and Chapter 14 (Exterior Walls). For additional measures, see Section 5.407.2 of this code.

SECTION 5.506 INDOOR AIR QUALITY

☐ ☐ GC **5.506.1 OUTSIDE AIR DELIVERY.** For mechanically or naturally ventilated spaces in buildings, meet the minimum requirements of Section 120.1 (Requirements For Ventilation) of the *California Energy Code*, or the applicable local code, whichever is more stringent, and Division 1, Chapter 4 of CCR, Title 8.

☐ ☐ GC **5.506.2 CARBON DIOXIDE (CO_2) MONITORING.** For buildings or additions equipped with demand control ventilation, CO_2 sensors and ventilation controls shall be specified and installed in accordance with the requirements of the California Energy Code, Section 120(c)(4).

☐ ☐ ☑ **5.506.3 Carbon dioxide (CO_2) monitoring in classrooms.**
(DSA-SS) Each public K-12 school classroom, as listed in Table 120.1-A of the *California Energy Code*, shall be equipped with a carbon dioxide monitor or sensor that meets the following requirements:

1. 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 windows.
2. When the monitor or sensor is not integral to an Energy Management Control System (EMCS), the monitor or sensor shall display the carbon dioxide readings on the device. When the sensor is integral to an EMCS, the carbon dioxide readings shall be available to and regularly monitored by facility personnel.
3. A monitor shall provide notification though a visual indicator on the monitor when the carbon dioxide levels in the 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 exceeded 1,100ppm.
4. The monitor or sensor shall measure carbon dioxide levels at minimum 15- minute intervals and shall maintain a record of previous carbon dioxide measurements of not less than 30 days duration.
5. 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.
6. 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 once every 5 years.

SECTION 5.507 ENVIRONMENTAL COMFORT

☐ ☐ ☑ **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 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.

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.

Exception: [DSA-SS] For public schools and community colleges, the requirements of this section and all subsections apply only to new construction.

5.507.4.1 Exterior noise transmission, prescriptive method. Wall and roof-ceiling assemblies exposed to 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 40 or OITC of 30 in the following locations:

1. Within the 65 CNEL noise contour of an airport.

Exceptions:

1. L_{dn} or CNEL for military airports shall be determined by the facility Air Installation Compatible Land Use Zone (AICUZ) plan.
2. L_{dn} or CNEL for other airports and heliports for which a land use plan has not been developed shall be determined by the local general plan noise element.

2. Within the 65 CNEL or L_{dn} noise contour of a freeway or expressway, railroad, industrial source or fixed-guideway source as determined by the Noise Element of the General Plan.

5.507.4.1.1. 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).

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.

5.507.4.2.1 Site Features. Exterior features such as sound walls or earth berms may be utilized as appropriate to the building, addition or alteration project to mitigate sound migration to the interior.

5.507.4.2.2 Documentation of Compliance. An acoustical analysis documenting complying interior soundlevels shall be prepared by personnel approved by the architect or engineer of record.

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.

Note: Examples of assemblies and their various STC ratings may be found at the California Office of Noise Control: www.toolbase.org/PDF/CaseStudies/stc_icc_ratings.pdf.

SECTION 5.508 OUTDOOR AIR QUALITY

☐ ☐ ☑ **5.508.1 Ozone depletion and greenhouse gas reductions.** Installations of HVAC, refrigeration and fire suppression equipment shall comply with Sections 5.508.1.1 and 5.508.1.2.

5.508.1.1 Chlorofluorocarbons (CFCs). Install HVAC, refrigeration and fire suppression equipment that do not contain CFCs.

5.508.1.2 Halons. Install HVAC, refrigeration and fire suppression equipment that do not contain Halons.

Y	N/A	RESPON. PARTY
☐	☑	-

5.508.2 Supermarket refrigerant leak reduction. New commercial refrigeration systems shall comply with the provisions of this section when installed in retail food stores 8,000 square feet or more conditioned area, and that utilize either refrigerated display cases, or walk-in coolers or freezers connected to remote compressor units or condensing units. The leak reduction measures apply to refrigeration systems containing high-global-warming potential (high-GWP) refrigerants with a GWP of 150 or greater. New refrigeration systems include both new facilities and the replacement of existing refrigeration systems in existing facilities.

Exception: Refrigeration systems containing low-global warming potential (low-GWP) refrigerant with a GWP value less than 150 are not subject to this section. Low-GWP refrigerants are nonozone-depleting refrigerants that include ammonia, carbon dioxide (CO_2), and potentially other refrigerants.

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

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

5.508.2.1.2 Copper pipe. Copper tubing with an OD less than 1/4 inch may be used in systems with a refrigerant 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 8 mils.

5.508.2.1.3 Flared tubing connections. Double-flared tubing connections may be used for pressure controls, 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.

5.508.2.1.4 Elbows. Short radius elbows are only permitted where space limitations prohibit use of long radius elbows.

5.508.2.2 Valves. Valves Valves and fittings shall comply with the *California Mechanical Code* and as follows.

5.508.2.2.1 Pressure relief valves. For vessels containing high-GWP refrigerant, a rupture disc shall be installed between the outlet of the vessel and the inlet of the pressure relief valve.

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.

5.508.2.2.2 Access valves. Only Schrader access valves with a brass or steel body are permitted for use.

5.508.2.2.2.1 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 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.

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

5.508.2.3.1 Coil coating. Consideration shall be given to the heat transfer efficiency of coil coating to maximize energy efficiency.

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

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

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

5.508.2.5.2 Leaks. Check the system for leaks, repair any leaks, and retest for pressure using the same gauge.

5.508.2.5.3 Allowable pressure change. The system shall stand, unaltered, for 24 hours with no more than a +/- one pound pressure change from 300 psig, measured with the same gauge.

5.508.2.6 Evacuation. The system shall be evacuated after pressure testing and prior to charging.

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

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

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

CHAPTER 7
INSTALLER & SPECIAL INSPECTOR QUALIFICATIONS

702 QUALIFICATIONS

702.1 INSTALLER TRAINING. HVAC system installers shall be trained and certified in the proper installation of HVAC systems including ducts and equipment by a nationally or regionally recognized training or certification program. Uncertified persons may perform HVAC installations when under the direct supervision and responsibility of a person trained and certified to install HVAC systems or contractor licensed to install HVAC systems. Examples of acceptable HVAC training and certification programs include but are not limited to the following:

1. State certified apprenticeship programs.
2. Public utility training programs.
3. Training programs sponsored by trade, labor or statewide energy consulting or verification organizations.
4. Programs sponsored by manufacturing organizations.
5. Other programs acceptable to the enforcing agency.

702.2 SPECIAL INSPECTION [HCD]. When required by the enforcing agency, the owner or the responsible entity acting as the owner's agent shall employ one or more special inspectors to provide inspection or other duties necessary to substantiate compliance with this code. Special inspectors shall demonstrate competence to the satisfaction of the enforcing agency for the particular type of inspection or task to be performed. In addition to other certifications or qualifications acceptable to the enforcing agency, the following certifications or education may be considered by the enforcing agency when evaluating the qualifications of a special inspector:

1. Certification by a national or regional green building program or standard publisher.
2. Certification by a statewide energy consulting or verification organization, such as HERS raters, building performance contractors, and home energy auditors.
3. Successful completion of a third party apprentice training program in the appropriate trade.
4. Other programs acceptable to the enforcing agency.

Notes:

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

[BSC-CG] When required by the enforcing agency, the owner or the responsible entity acting as the owner's agent shall employ one or more special inspectors to provide inspection or other duties necessary to substantiate compliance with this code. Special inspectors shall demonstrate competence to the satisfaction of the enforcing agency for the particular type of inspection or task to be performed. In addition, the special inspector shall have a certification from a recognized state, national or international association, as determined by the local agency. The area of certification shall be closely related to the primary job function, as determined by the local agency.

Note: Special inspectors shall be independent entities with no financial interest in the materials or the project they are inspecting for compliance with this code.

703 VERIFICATIONS

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

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760-567-2347
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CIVIL:

GENERAL CONTRACTOR . . . . . .

Parra Construction

OWNER . . . . . .
Daniel Glubaich
175 E Main St.
Morgan Hill, 95037
760-567-2347
APN # 603-310-005
LEGAL ADDRESS :
POR SEC 32 T5S R8E

MARK	DATE	DESCRIPTION

SCALE:

PROJECT NO: 03282024
MODEL FILE: VMP Event Center. 04.11.24 V27.pln
DRAWN BY: Bob Sipovac
CHK'D BY: #Contact Full Name

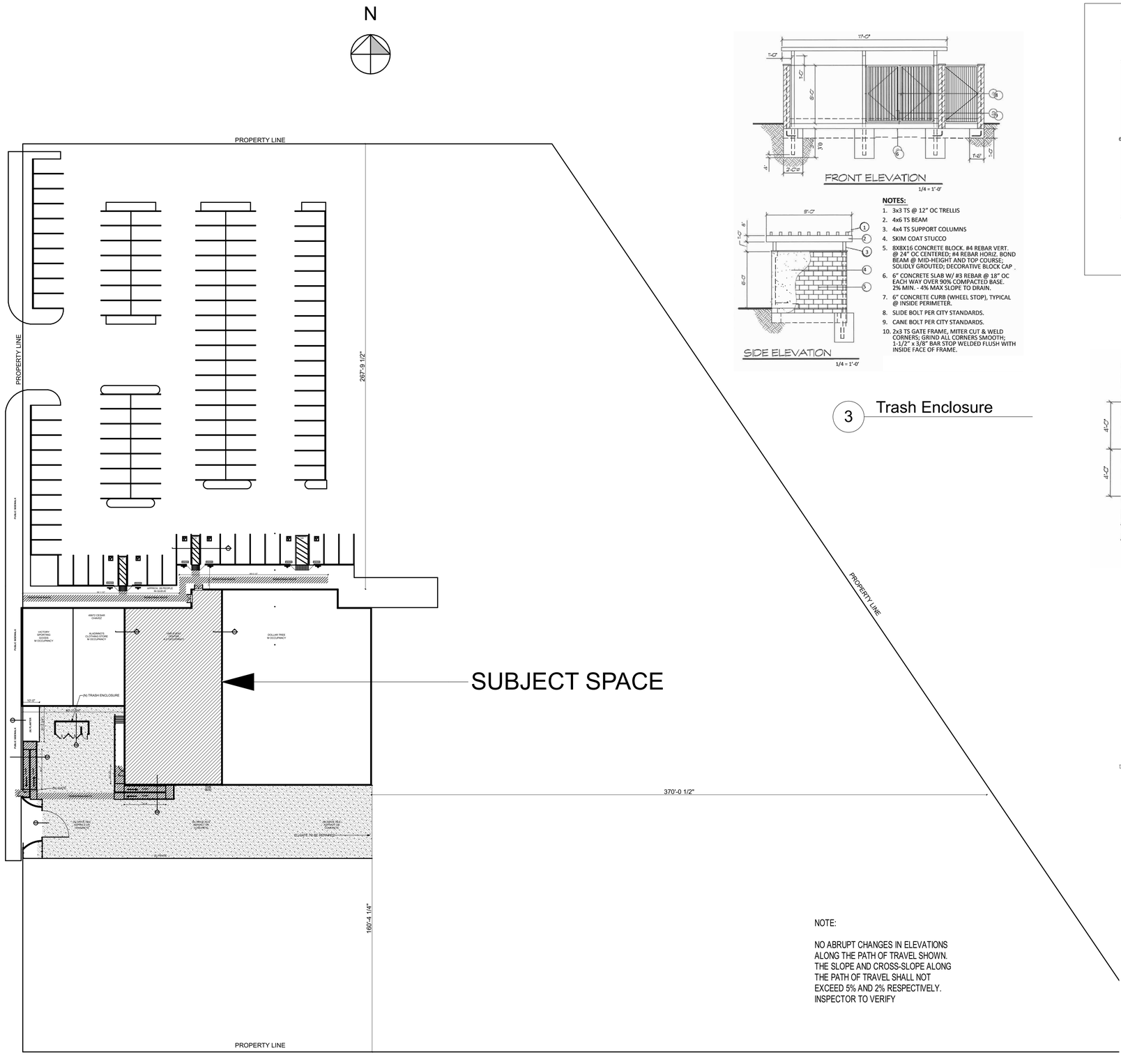
SHEET TITLE

Cal Green

Thursday, August 22, 2024

G-103

SHEET 4 OF 25



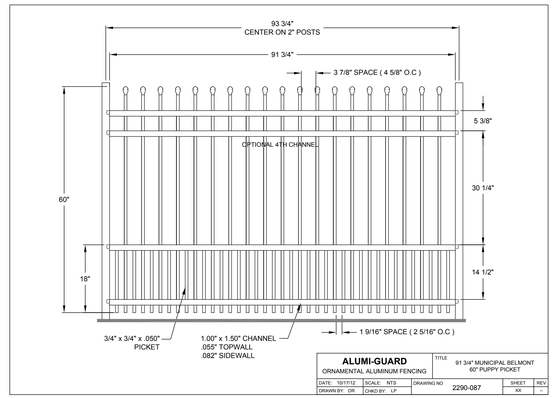
NOTE:

NO ABRUPT CHANGES IN ELEVATIONS ALONG THE PATH OF TRAVEL SHOWN. THE SLOPE AND CROSS-SLOPE ALONG THE PATH OF TRAVEL SHALL NOT EXCEED 5% AND 2% RESPECTIVELY. INSPECTOR TO VERIFY

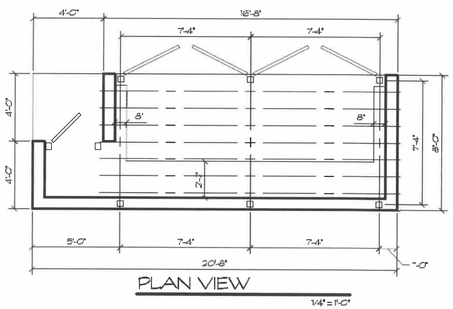
NOTES:

1. 3x3 TS @ 12" OC TRELLIS
2. 4x6 TS BEAM
3. 4x4 TS SUPPORT COLUMNS
4. SKIM COAT STUCCO
5. 8X8X16 CONCRETE BLOCK. #4 REBAR VERT. @ 24" OC CENTERED; #4 REBAR HORIZ. BOND BEAM @ MID-HEIGHT AND TOP COURSE; SOLIDLY GROUTED; DECORATIVE BLOCK CAP
6. 6" CONCRETE SLAB W/ #3 REBAR @ 18" OC EACH WAY OVER 90% COMPACTED BASE. 2% MIN. - 4% MAX SLOPE TO DRAIN.
7. 6" CONCRETE CURB (WHEEL STOP), TYPICAL @ INSIDE PERIMETER.
8. SLIDE BOLT PER CITY STANDARDS.
9. CANE BOLT PER CITY STANDARDS.
10. 2x3 TS GATE FRAME, MITER CUT & WELD CORNERS; GRIND ALL CORNERS SMOOTH; 1-1/2" x 3/8" BAR STOP WELDED FLUSH WITH INSIDE FACE OF FRAME.

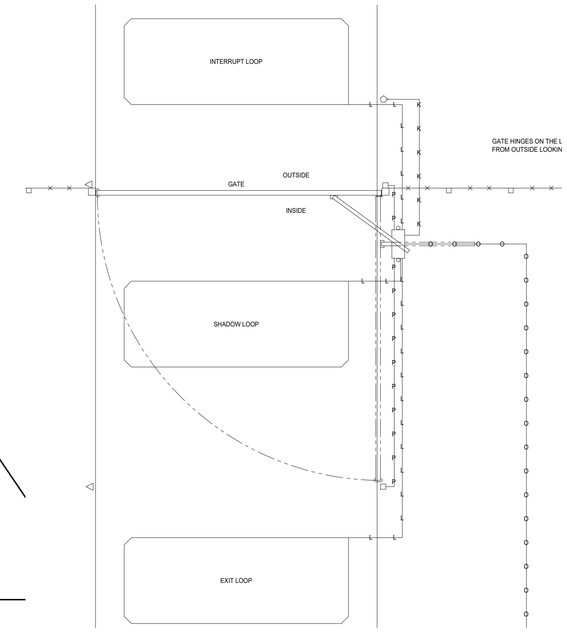
3 Trash Enclosure



1 Fencing



3 Trash Enclosure



2 Motorized Gate

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760-567-2347
APN # 603-310-005
LEGAL ADDRESS :
POR SEC 32 T5S R8E

	1' = 30'-0"	
MARK	DATE	DESCRIPTION

SCALE:	
PROJECT NO:	03282024
MODEL FILE:	VMP Event Center. 04.11.24 V27.pln
DRAWN BY:	Bob Sipovac
CHK'D BY:	#Contact Full Name

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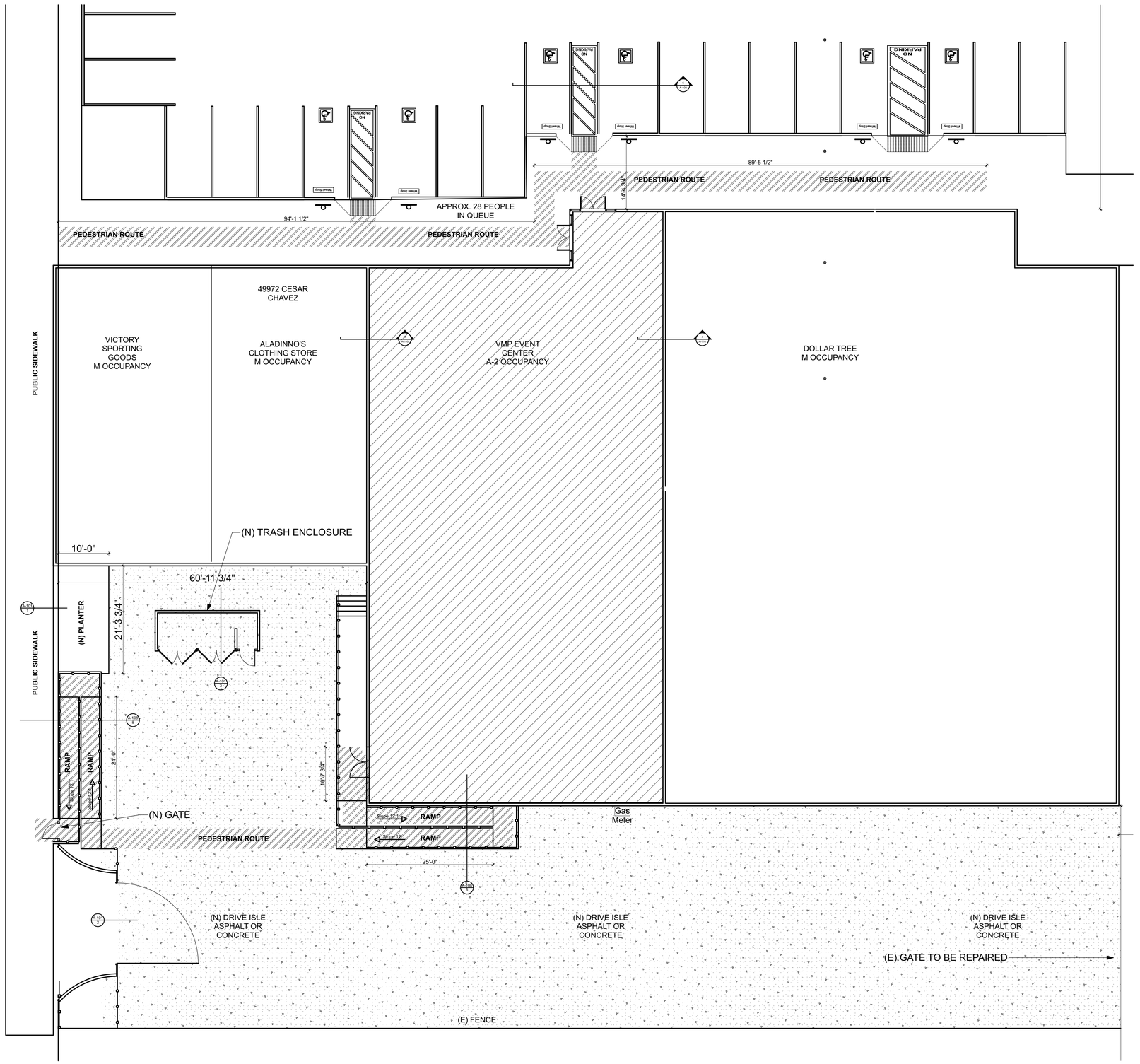
SHEET TITLE

Site Plan

Thursday, August 22, 2024

A-101

SHEET 5 OF 25



N

NOTE:

(A Occupancies) Group A occupancies with an occupant load greater than 100 and less than 300 shall have at least one exit that discharges on a street or an unoccupied space of not less than 20 feet in width that adjoins a street or public way. (CBC Section 1030.3.1).
CBC: (A Occupancies) Group A occupancies with an occupant load of 100 to 300 not less than one of the required means of egress shall exit through one of the following: (CBC Section 1030.3.1)
1. Directly to an exit.
2. Egress through a lobby that is not used to access the other required exits.
3. To a one-hour rated corridor to an exit.
4. Continuous through a one-hour rated lobby to an exit.

NEW TENANT SPACE

ACCESSIBLE PATH OF TRAVEL

NOTE:

NO ABRUPT CHANGES IN ELEVATIONS ALONG THE PATH OF TRAVEL SHOWN. THE SLOPE AND CROSS-SLOPE ALONG THE PATH OF TRAVEL SHALL NOT EXCEED 5% AND 2% RESPECTIVELY. INSPECTOR TO VERIFY

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	1" = 10'-0"	
MARK	DATE	DESCRIPTION

SCALE:	
PROJECT NO:	03282024
MODEL FILE:	VMP Event Center. 04.11.24 V27.pln
DRAWN BY:	Bob Sipovac
CHK'D BY:	#Contact Full Name

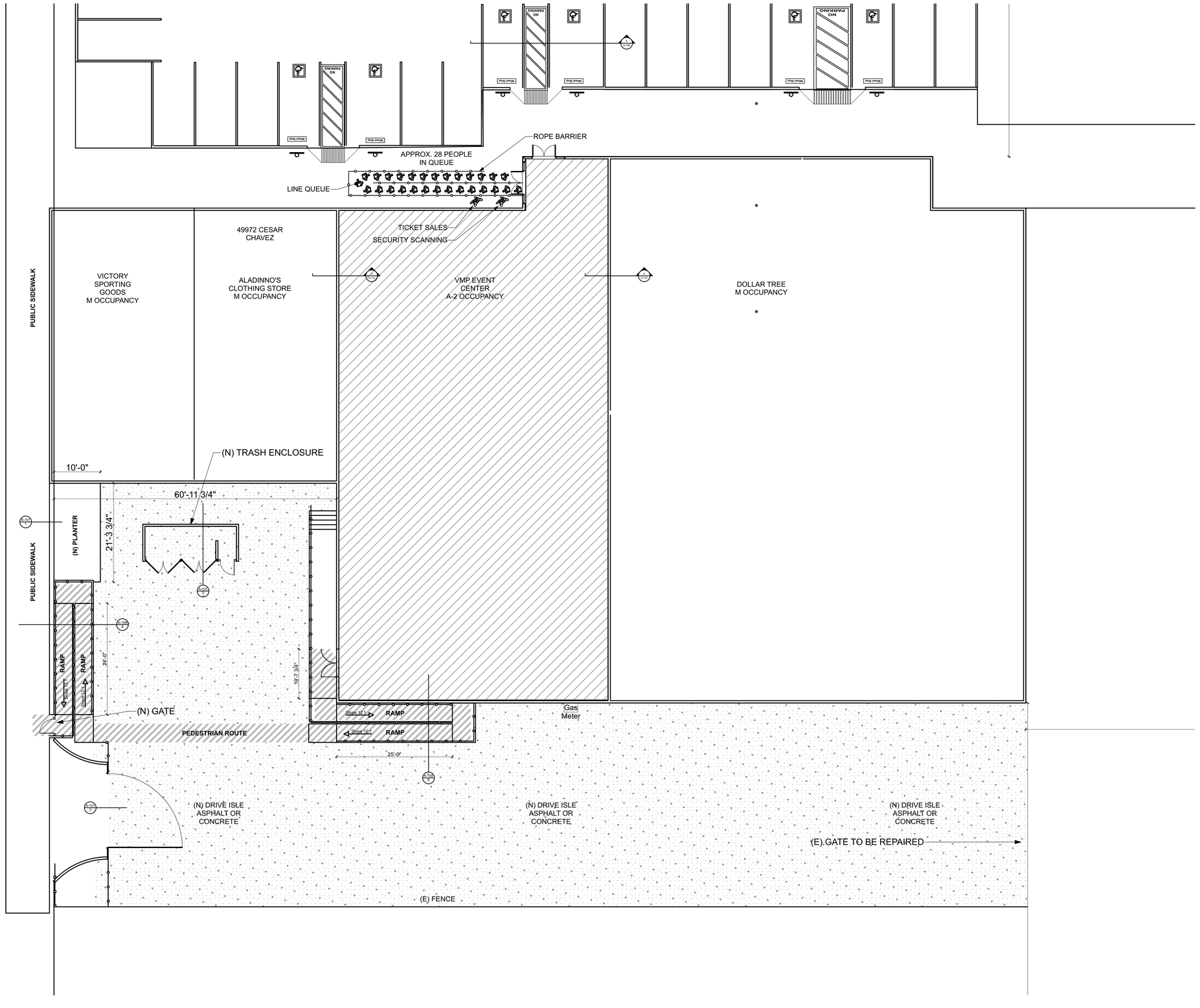
SHEET TITLE

Expanded Site

Thursday, August 22, 2024

A-102

SHEET 6 OF 25



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MARK	DATE	DESCRIPTION

SCALE:

PROJECT NO:	03282024
MODEL FILE:	VMP Event Center. 04.11.24 V27.pln
DRAWN BY:	Bob Sipovac
CHK'D BY:	#Contact Full Name

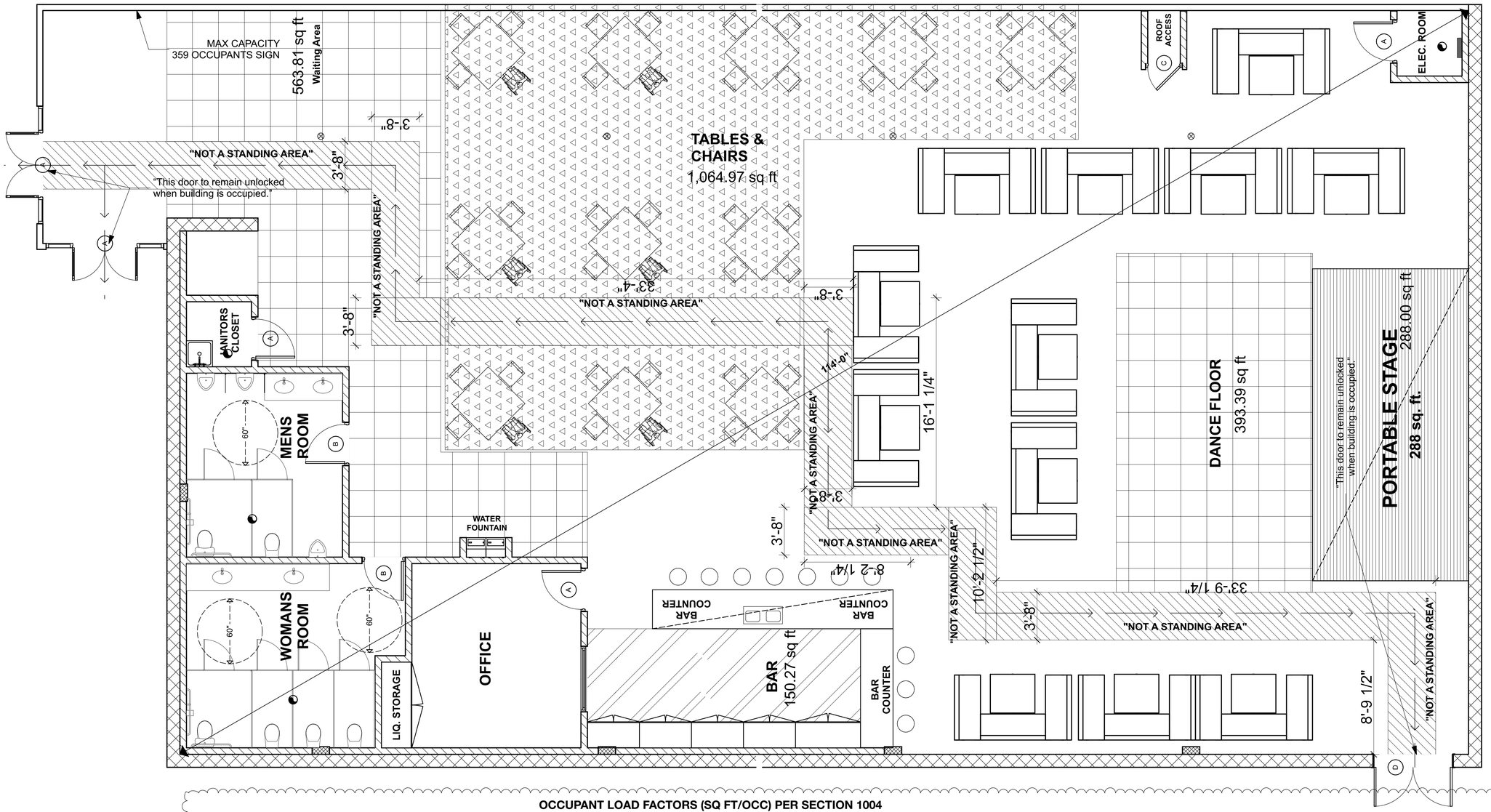
SHEET TITLE

Line Queue Plan

Thursday, August 22, 2024

A-102A

SHEET 7 OF 25



NOTE:

(Accessory Occupancies) Accessory occupancies are those occupancies that are ancillary to the main occupancy of the building or portion thereof. No separation is required between accessory occupancies and the main occupancy. (CBC Section 508.2, 508.2.4).
2022 CBC: (Fixed Seats) For areas having fixed seats, the occupant load shall be determined by the number of fixed seats. (CBC 1004.6)
(Door Opening Force) The opening force required for hinged interior and exterior doors other than fire doors shall be 5 pounds maximum. (CBC 11B-404.2.9)
(Door Lever Type) Provide lever type hardware for all doors that are equipped with a latch or locking device, and in a path of travel. (other than panic type). The hardware type should be identified within the drawing plans. (CBC 11B-309.4, 11B-404.2.7)
(Door Hardware) Door handles, pulls, latches, locks and other operating devices on doors required to be accessible by Chapter 11B shall not require tight grasping, tight pinching or twisting of the wrist to operate. Where sliding doors are in the fully open position, operating hardware shall be exposed and usable from both sides. (CBC Section 1010.1.9.1, 11B-404.2.7)
(Panic Hardware – A Occupancy) Provide panic hardware on exit doors serving A- Occupancies where the occupant load served exceeds 50. Identify all panic hardware within the door schedule. (CBC 1010.1.10)

OCCUPANT LOAD FACTORS (SQ FT/OCC) PER SECTION 1004

ASSEMBLY W/O FIXED SEATS (TABLES AND CHAIRS) 15 NET
ASSEMBLY W/ FIXED SEATS (W/O TWO DIVIDING ARMS)) 1 OCC / 18"
ASSEMBLY W/ FIXED SEATS (BOOTHS): 1 OCC / 24"
ASSEMBLY W/ FIXED SEATS: 1 OCC / SEAT
ASSEMBLY W/O FIXED SEATS (STANDING SPACE) 5 NET

AREAS

TABLES AND CHAIRS = 1065 SQ. FT.
BAR SEATS = 10
BOOTHS = 1584"
WAITING = 564
STAGE / DANCE FLOOR = 681 SQ. FT.

OCCUPANT LOADS

TABLES AND CHAIRS = 1065 / 15	71 OCC
BAR SEATS =	10 OCC
BOOTHS = 1584" / 24	66 OCC
WAITING = 564 / 5	113 OCC
STAGE = 288 / 15	20 OCC
DANCE FLOOR 394 / 5	79 OCC
TOTAL	**359 OCC**

1

WALL LEGEND

- EXISTG WALLS
- NEW DEMISING WALLS
- EXISTG CMU WALLS
- EXISTG COLUMN
- EXISTG COLUMN

OCCUPANCY LEGEND

- BAR OCCUPANCY / 150 PER SQ. FT.
- WAITING AREA / 5 PER SQ. FT.
- EXIT PATH OF TRAVEL IDENTIFIED BY CONTRASTING FLOORING
- TABLES & CHAIRS / 15 PER SQ. FT.
- DANCE FLOOR / 5 PER SQ. FT.
- STAGE / 15 PER SQ. FT.

DOOR SCHEDULE

MARK	SIZE W	SIZE HT	New Or Existing	Glazing	Operation Type	Opening Force	Hardware	U FACTOR	SHGC	FIRE RATING	NOTES
A	4'-0"	6'-8"	Existing								
A	5'-0"	6'-8"	Existing			5 Lbs Max	Panic hardware				
D	6'-0"	6'-8"	New			5 Lbs Max	Panic Hardware				
B	3'-0"	7'-0"	New			5 Lbs Max	Lever Hardware / Closer			N/A	
A	3'-0"	7'-0"	New			5 Lbs Max	Lever Hardware				
C	2'-6"	7'-0"	New			5 Lbs Max	Lever Hardware				

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760-567-2347
APN # 603-310-005
LEGAL ADDRESS :
POR SEC 32 T5S R8E

	1/4" =	'-0"
MARK	DATE	DESCRIPTION

SCALE:

PROJECT NO:	03282024
MODEL FILE:	VMP Event Center. 04.11.24 V27.pln
DRAWN BY:	Bob Sipovac
CHK'D BY:	#Contact Full Name

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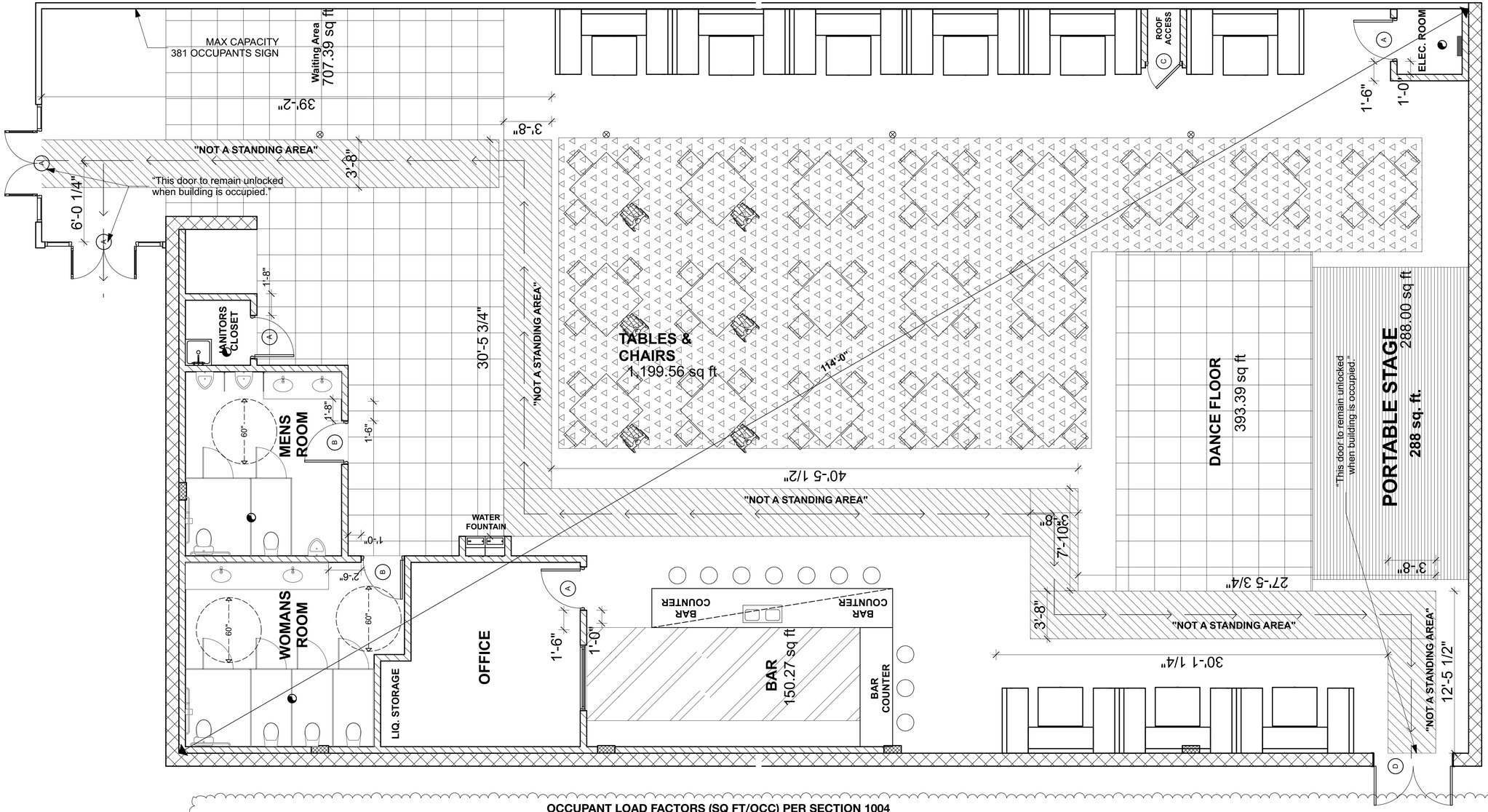
SHEET TITLE

Floor Plan A

Thursday, August 22, 2024

A-103A

SHEET 8 OF 25



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ASSEMBLY W/ FIXED SEATS (BOOTHS): 1 OCC / 24"
ASSEMBLY W/ FIXED SEATS: 1 OCC / SEAT
ASSEMBLY W/O FIXED SEATS (STANDING SPACE) 5 NET

AREAS

TABLES AND CHAIRS = 1200 SQ. FT.
BAR SEATS = 10
BOOTHS = 1188"
WAITING = 708
STAGE / DANCE FLOOR = 681 SQ. FT.

OCCUPANT LOADS

TABLES AND CHAIRS = 1200 / 15	80 OCC
BAR SEATS =	10 OCC
BOOTHS = 1188" / 24	50 OCC
WAITING = 708 / 5	142 OCC
STAGE = 288 / 15	20 OCC
DANCE FLOOR 394 / 5	79 OCC
TOTAL	**381 OCC**

WALL LEGEND

- EXISTG WALLS
- NEW DEMISING WALLS
- EXISTG CMU WALLS
- EXISTG COLUMN
- EXISTG COLUMN

OCCUPANCY LEGEND

- BAR OCCUPANCY / 150 PER SQ. FT.
- WAITING AREA / 5 PER SQ. FT.
- EXIT PATH OF TRAVEL IDENTIFIED BY CONTRASTING FLOORING
- TABLES & CHAIRS / 15 PER SQ. FT.
- DANCE FLOOR / 5 PER SQ. FT.
- STAGE / 15 PER SQ. FT.

DOOR SCHEDULE

MARK	SIZE W	SIZE HT	New Or Existing	Glazing	Operation Type	Opening Force	Hardware	U FACTOR	SHGC	FIRE RATING	NOTES
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C	2'-6"	7'-0"	New			5 Lbs Max	Lever Hardware				

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Parra Construction

OWNER . . . . . .
Daniel Glubaich
175 E Main St.
Morgan Hill, 95037
760-567-2347
APN # 603-310-005
LEGAL ADDRESS :
POR SEC 32 T5S R8E

MARK	DATE	DESCRIPTION

SCALE:

PROJECT NO: 03282024
MODEL FILE: VMP Event Center. 04.11.24 V27.pln
DRAWN BY: Bob Sipovac
CHK'D BY: #Contact Full Name

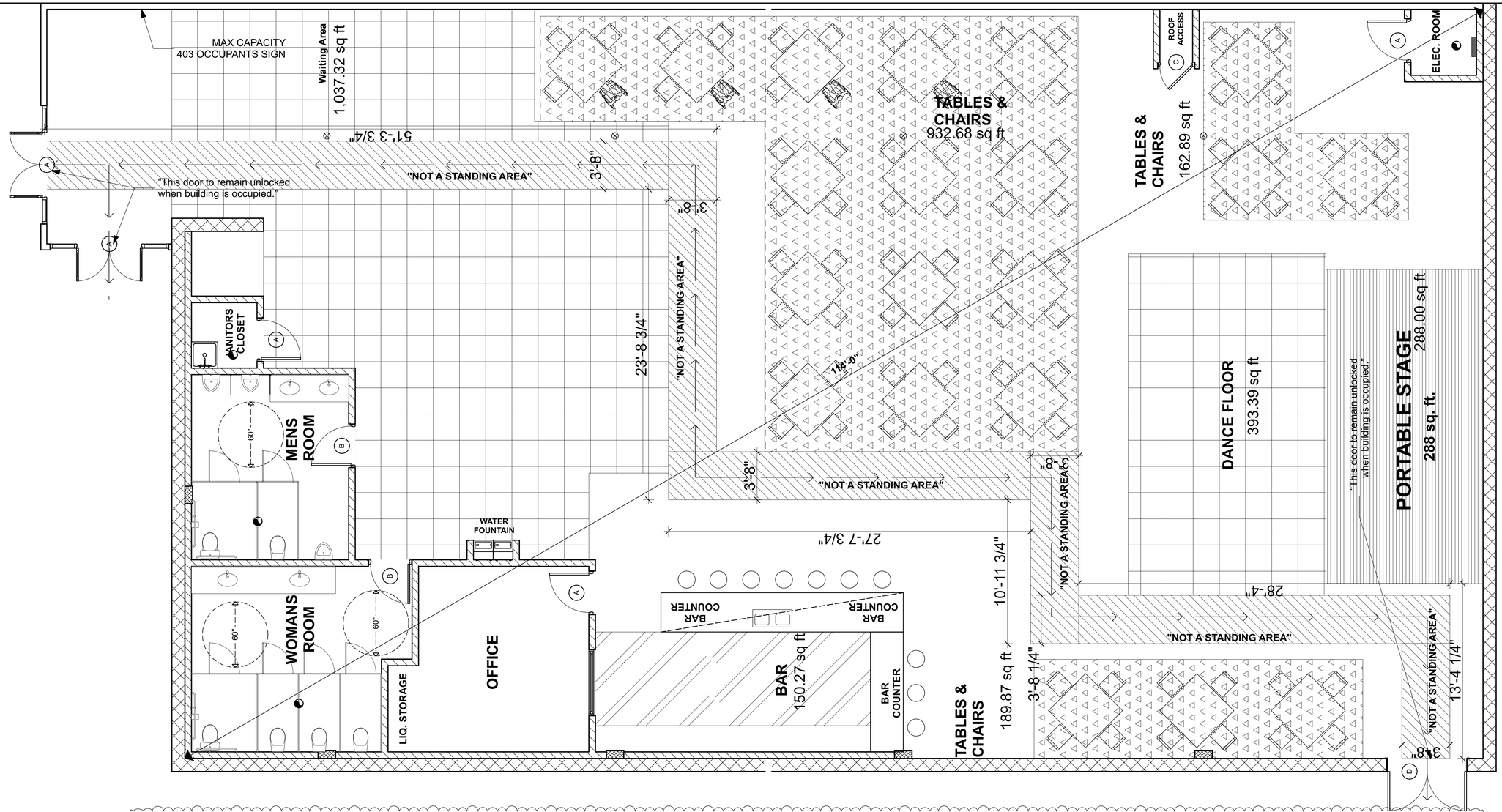
SHEET TITLE

Floor Plan B

Thursday, August 22, 2024

A-103B

SHEET 9 OF 25



NOTE:

(Accessory Occupancies) Accessory occupancies are those occupancies that are ancillary to the main occupancy of the building or portion thereof. No separation is required between accessory occupancies and the main occupancy. (CBC Section 508.2, 508.2.4).
2022 CBC: (Fixed Seats) For areas having fixed seats, the occupant load shall be determined by the number of fixed seats. (CBC 1004.6)
(Door Opening Force) The opening force required for hinged interior and exterior doors other than fire doors shall be 5 pounds maximum. (CBC 11B-404.2.9)
(Door Lever Type) Provide lever type hardware for all doors that are equipped with a latch or locking device, and in a path of travel. (other than panic type). The hardware type should be identified within the drawing plans. (CBC 11B-309.4, 11B-404.2.7)
(Door Hardware) Door handles, pulls, latches, locks and other operating devices on doors required to be accessible by Chapter 11B shall not require tight grasping, tight pinching or twisting of the wrist to operate. Where sliding doors are in the fully open position, operating hardware shall be exposed and usable from both sides. (CBC Section 1010.1.9.1, 11B-404.2.7)
(Panic Hardware – A Occupancy) Provide panic hardware on exit doors serving A- Occupancies where the occupant load served exceeds 50. Identify all panic hardware within the door schedule. (CBC 1010.1.10)

OCCUPANT LOAD FACTORS (SQ FT/OCC) PER SECTION 1004

ASSEMBLY W/O FIXED SEATS (TABLES AND CHAIRS) 15 NET
ASSEMBLY W/ FIXED SEATS (W/O TWO DIVIDING ARMS)) 1 OCC / 18"
ASSEMBLY W/ FIXED SEATS (BOOTHS): 1 OCC / 24"
ASSEMBLY W/ FIXED SEATS: 1 OCC / SEAT
ASSEMBLY W/O FIXED SEATS (STANDING SPACE) 5 NET

AREAS

TABLES AND CHAIRS = 1286 SQ. FT.
BAR SEATS = 10
BOOTHS = 0"
WAITING = 1038
STAGE / DANCE FLOOR = 681 SQ. FT.

OCCUPANT LOADS

TABLES AND CHAIRS = 1286 / 15	86 OCC
BAR SEATS =	10 OCC
BOOTHS = 0" / 24	0 OCC
WAITING = 1038 / 5	208 OCC
STAGE = 288 / 15	20 OCC
DANCE FLOOR 394 / 5	79 OCC
TOTAL	**403 OCC**

1

WALL LEGEND

EXISTG WALLS	
NEW DEMISING WALLS	
EXISTG CMU WALLS	
EXISTG COLUMN	
EXISTG COLUMN	⊗

OCCUPANCY LEGEND

BAR OCCUPANCY / 150 PER SQ. FT.	
WAITING AREA / 5 PER SQ. FT.	
EXIT PATH OF TRAVEL IDENTIFIED BY CONTRASTING FLOORING	
TABLES & CHAIRS / 15 PER SQ. FT.	
DANCE FLOOR / 5 PER SQ. FT.	
STAGE / 15 PER SQ. FT.	

DOOR SCHEDULE

MARK	SIZE W	SIZE HT	New Or Existing	Glazing	Operation Type	Opening Force	Hardware	U FACTOR	SHGC	FIRE RATING	NOTES
A	4'-0"	6'-8"	Existing								
A	5'-0"	6'-8"	Existing			5 Lbs Max	Panic hardware				
D	6'-0"	6'-8"	New			5 Lbs Max	Panic Hardware				
B	3'-0"	7'-0"	New			5 Lbs Max	Lever Hardware / Closer			N/A	
A	3'-0"	7'-0"	New			5 Lbs Max	Lever Hardware				
C	2'-6"	7'-0"	New			5 Lbs Max	Lever Hardware				

LICENSED ARCHITECT
WENDELL W. VEITH
NO. C5297
REN. 11-30-25
STATE OF CALIFORNIA

WENDELL W. VEITH, ARCHITECT #C5297
80-300 ULLSWATER DR., INDIO, CA. 92203
TEL. 1-760-953-4556 E-MAIL - wveith36@yahoo.com

SIPOVAC
CONSTRUCTION INNOVATION

CONSULTANTS . . . . . .

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760-567-2347
CSLB # 581636

ELECTRICAL:

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760-567-2347
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CIVIL:

GENERAL CONTRACTOR . . . . . .

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SCALE:

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MODEL FILE: VMP Event Center. 04.11.24 V27.pln
DRAWN BY: Bob Sipovac
CHK'D BY: #Contact Full Name

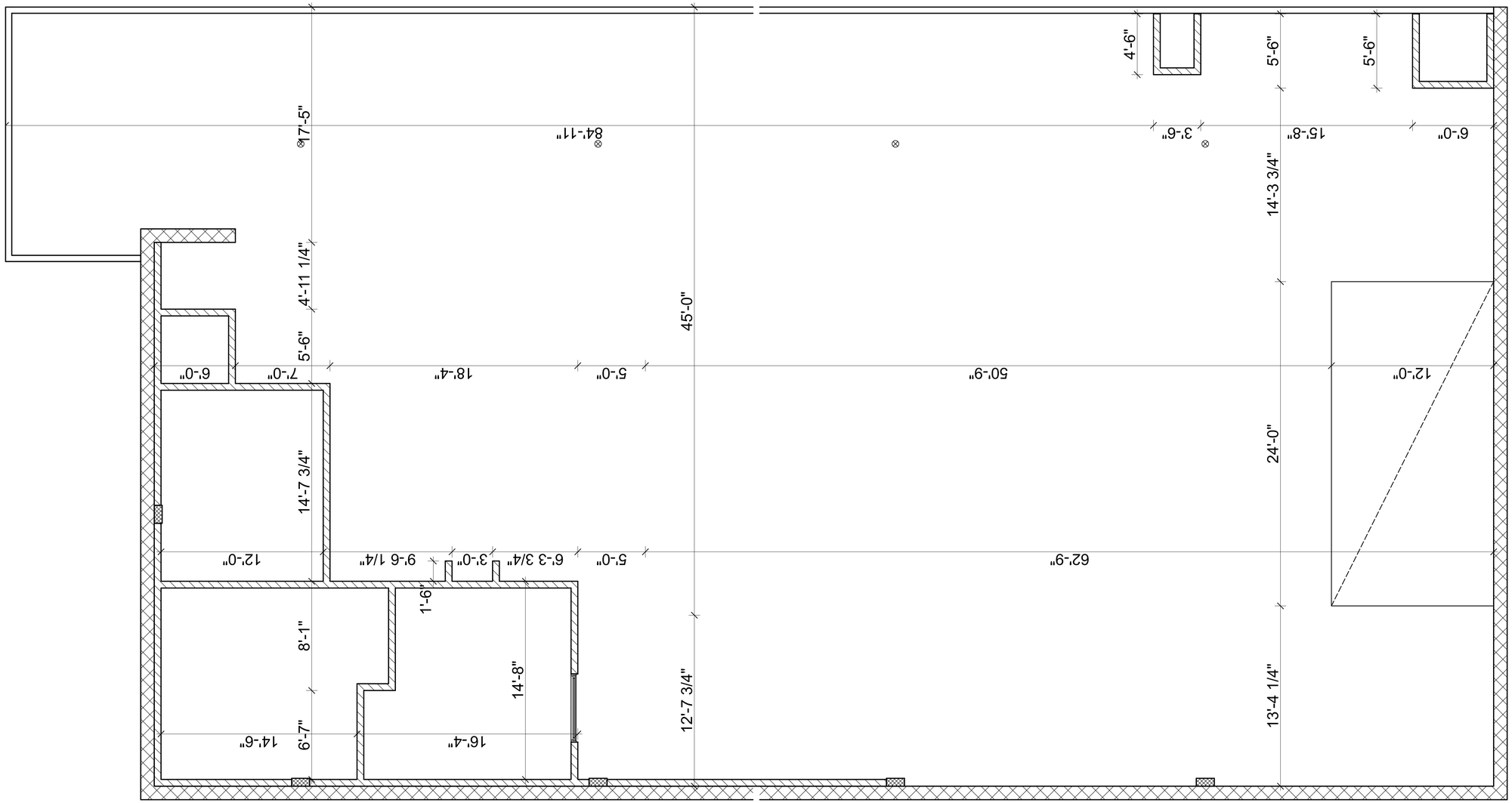
SHEET TITLE

Floor Plan C

Thursday, August 22, 2024

A-103C

SHEET 10 OF 25



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LEGAL ADDRESS :
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	1/4" =	1'-0"
MARK	DATE	DESCRIPTION

SCALE:	
PROJECT NO:	03282024
MODEL FILE:	VMP Event Center. 04.11.24 V27.pln
DRAWN BY:	Bob Sipovac
CHK'D BY:	#Contact Full Name

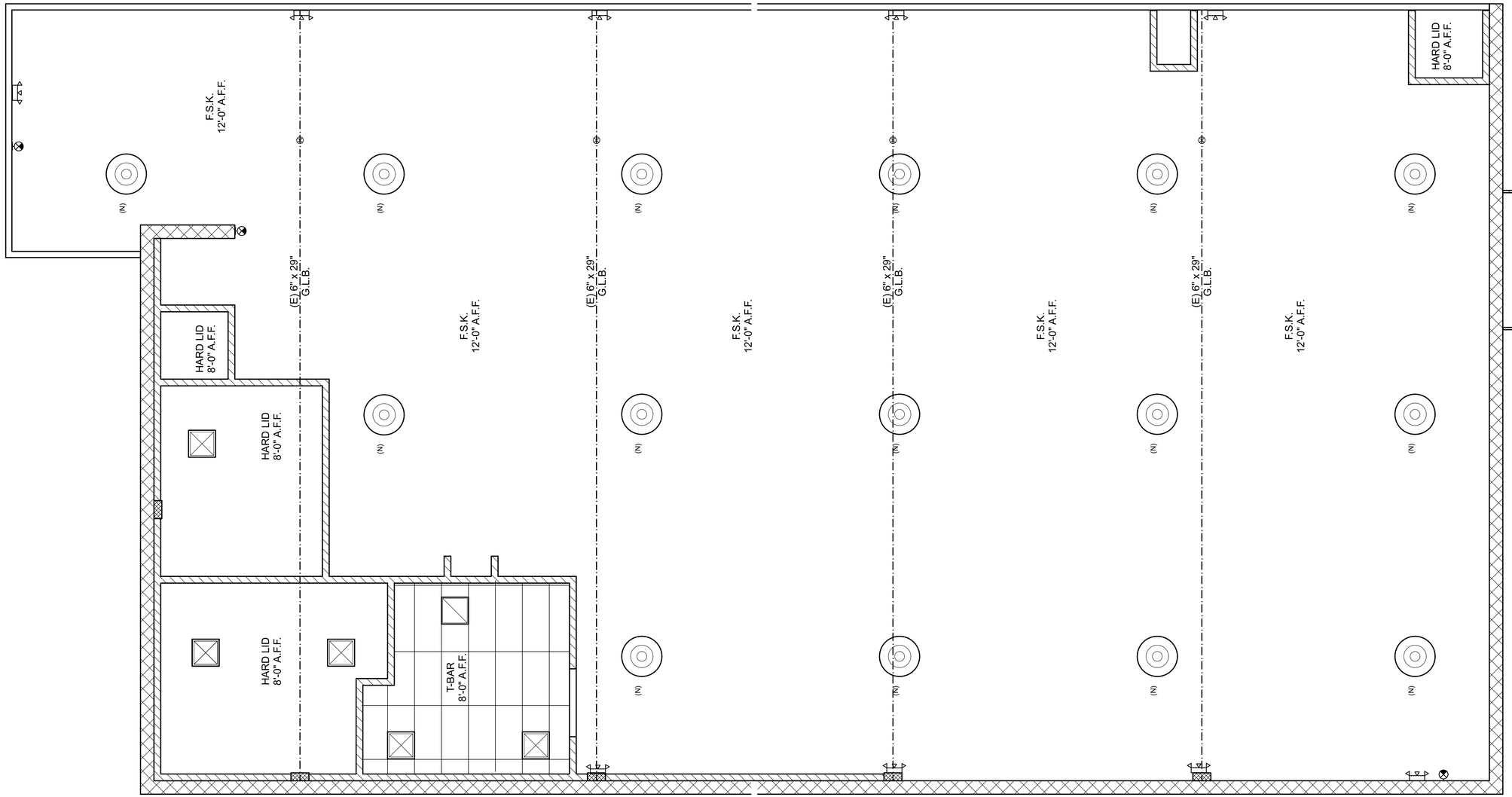
SHEET TITLE

Floor Dim

Thursday, August 22, 2024

A-105

SHEET **11** OF **25**



LOCAL VENTILATION RATE SUMMARY
BATHROOM FAN FLOW (EF-1) = 80 CFM
NUMBER OF NEW BATHROOMS = 2
DUCT SIZE = 4 INCHES
MAXIMUM ALLOWABLE
DUCT LENGHT = 70 FT

LEGEND			
	NEW HVAC supplies and returns	(N)	NEW EXIT SIGN
(N)	NEW HVAC supplies	(N)	NEW EMERGENCY EXIT LIGHTING W/ BATTERY BACKUP
	CELING MOUNTED LIGHT		NEW FAN - FLUSH MOUNTED IN CEILING
(N)	NEW 2'X4' FLUORESCENT LIGHT		

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SCALE:

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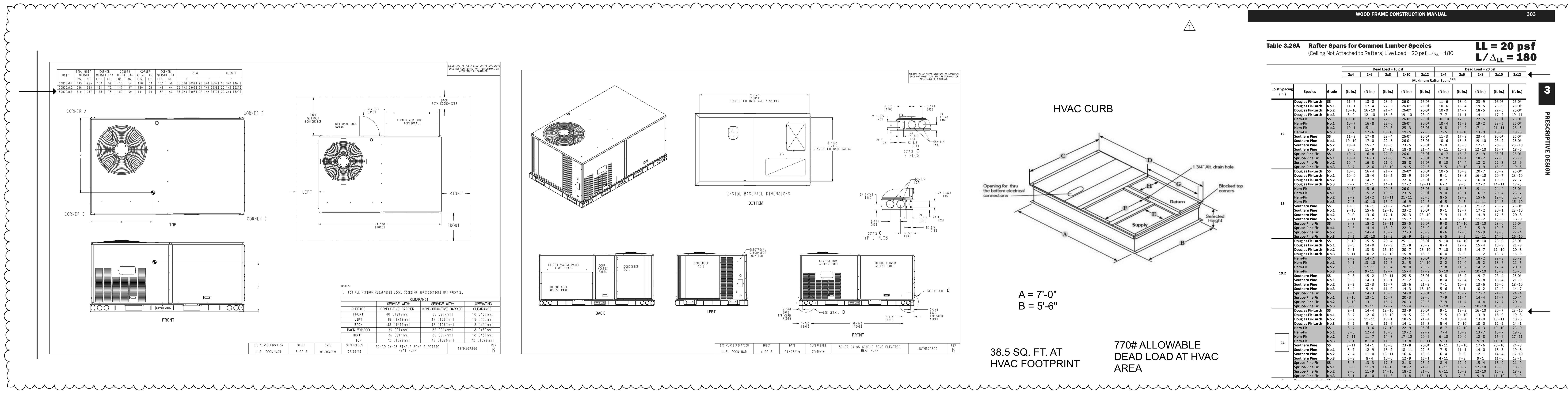
SHEET TITLE

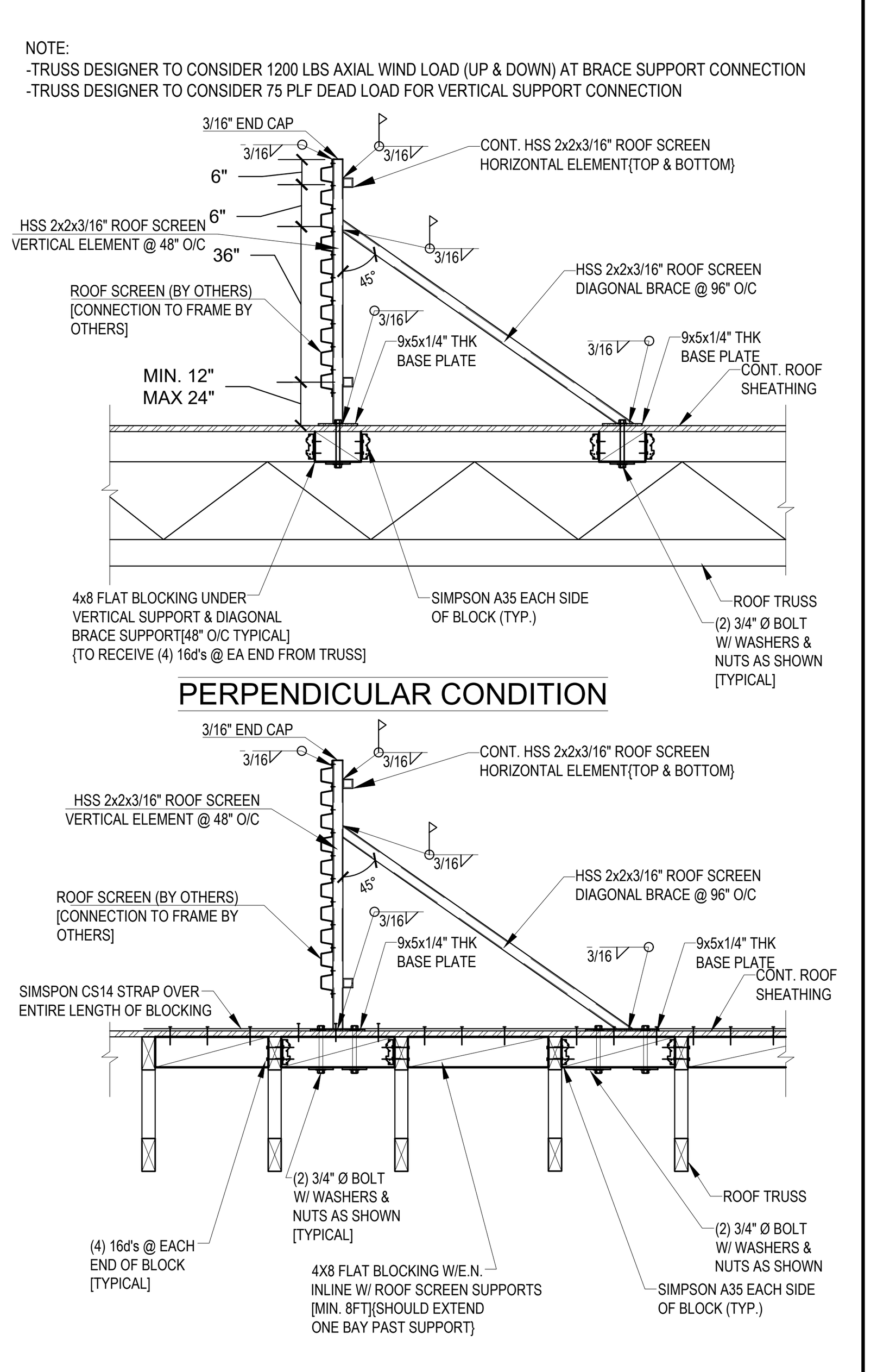
Reflected Ceiling Plan

Thursday, August 22, 2024

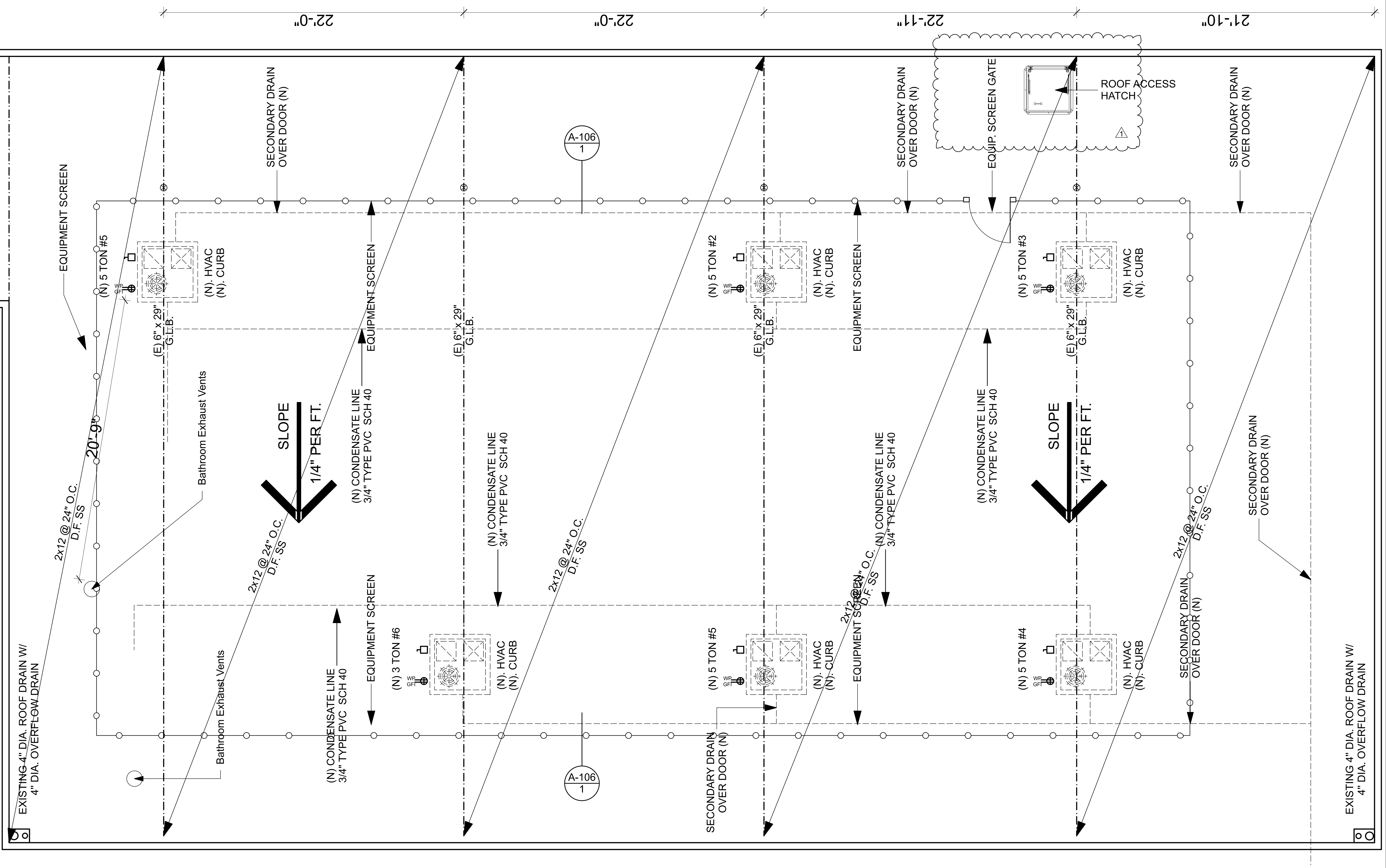
A-106

SHEET 12 OF 25





1 Roof Screen



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Morgan Hill, 95037
760-567-2347
APN # 603-310-005
LEGAL ADDRESS :
POR SEC 32 T5S R8E

	1/4" = 1'-0"	
MARK	DATE	DESCRIPTION

SCALE:	
PROJECT NO:	03282024
MODEL FILE:	VMP Event Center. 04.11.24 V27.pln
DRAWN BY:	Bob Sipovac
CHK'D BY:	#Contact Full Name
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SHEET TITLE

Roof Plan

Thursday, August 22, 2024

A-107

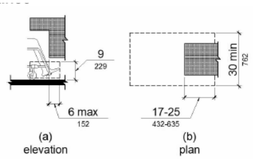
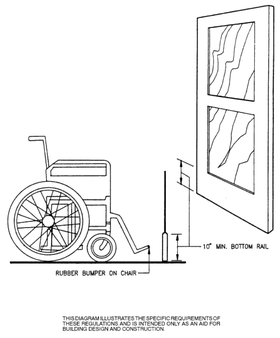


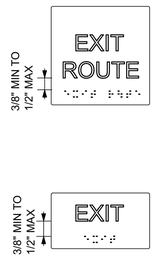
FIGURE 11B-306.2
TOE CLEARANCE

13	Toe Clearance Detail	1/4" = 1'-0"

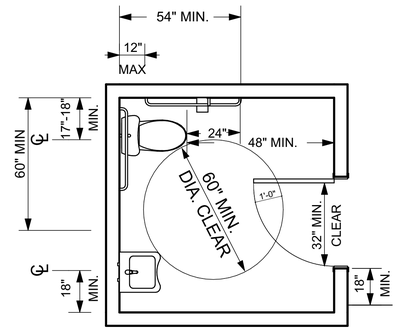


THIS DIAGRAM ILLUSTRATES THE SPECIFIC REQUIREMENTS OF THESE REGULATIONS AND IS INTENDED ONLY AS AN AID FOR BUILDING DESIGN AND CONSTRUCTION.

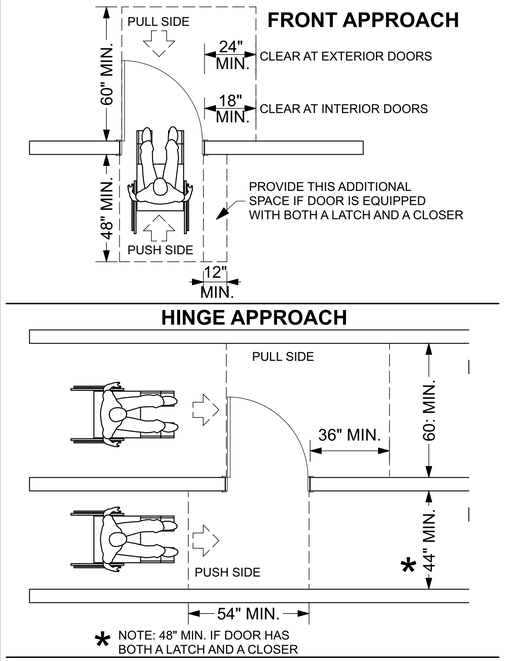
9	DOOR STRIKE PLATE	1/4" = 1'-0"



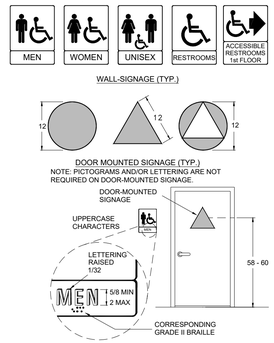
5	Tactile Exit Sign	1/4" = 1'-0"



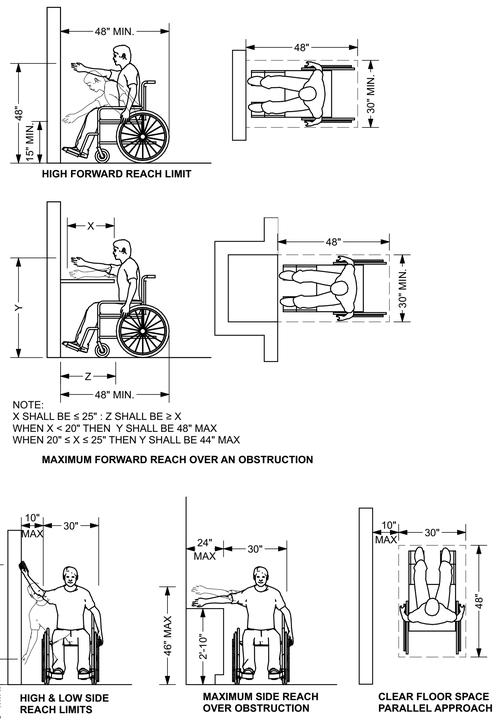
1	Single Accomodations Toilet	3/8" = 1'-0"



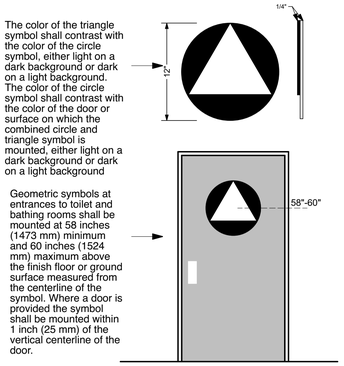
16	Maneuvering Clearances At Doors	3/8" = 1'-0"



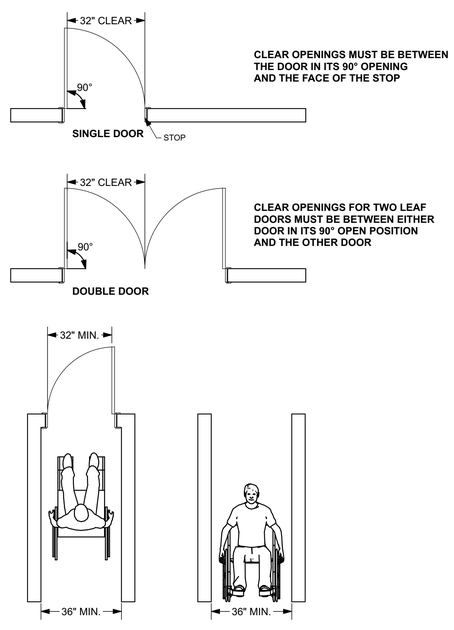
10	Unisex Restroom Signage Detail	1:1.25



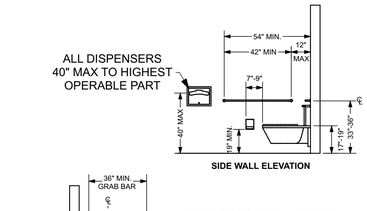
12	Forward & Side Reach Details	3/8" = 1'-0"



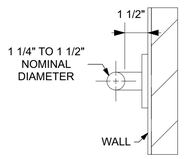
6	Unisex Restroom Signage Detail	3/16" = 1'-0"



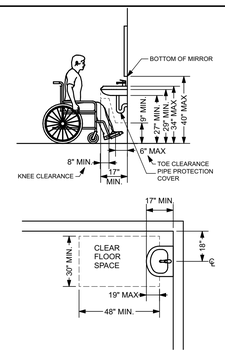
8	Door Width	3/8" = 1'-0"



2	Single Accomodations Toilet Elevations	1/4" = 1'-0"



3	Grab Bar Section	1" = 1'-0"



4	Lavatory Clearances Detail	3/16" = 1'-0"

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REN. 11-30-25
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MARK	DATE	DESCRIPTION

SCALE:	
PROJECT NO:	03282024
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DRAWN BY:	Bob Sipovac
CHK'D BY:	#Contact Full Name

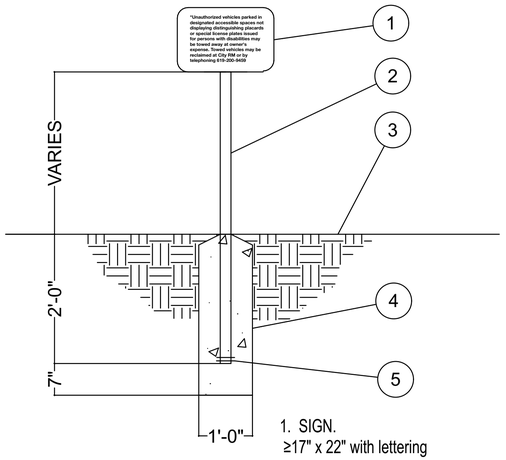
SHEET TITLE

Accessibility Details

Thursday, August 22, 2024

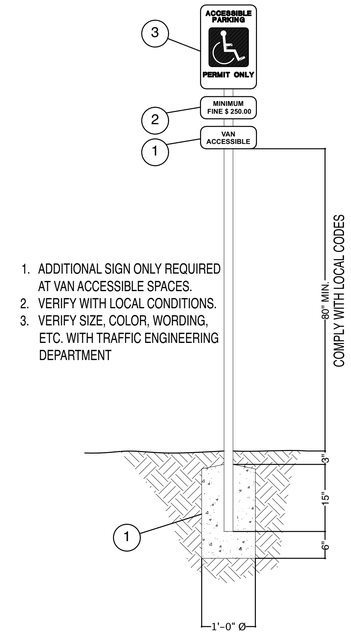
A-108

SHEET 14 OF 25



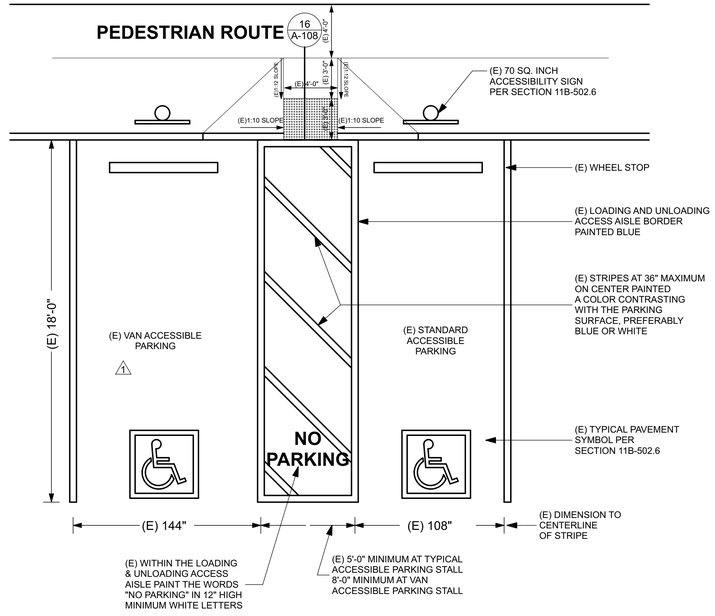
1. SIGN.
   ≥17" x 22" with lettering not ≤1" in height
2. 1-1/2" SQ. X 1/8" TUBE STEEL POST.
3. FINISHED GRADE.
4. CONCRETE FOOTING.
5. BOLT.

14 Unathorized Vehicals 1/16" = 1'-0"



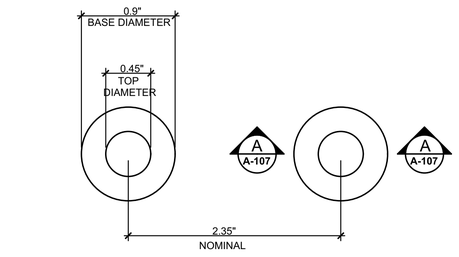
1. ADDITIONAL SIGN ONLY REQUIRED AT VAN ACCESSIBLE SPACES.
2. VERIFY WITH LOCAL CONDITIONS.
3. VERIFY SIZE, COLOR, WORDING, ETC. WITH TRAFFIC ENGINEERING DEPARTMENT

10 Accessible Parking Sign 1/16" = 1'-0"

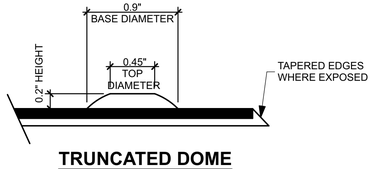


(E) ACCESSIBLE PARKING

6 Accessile Parking 3/16" = 1'-0"

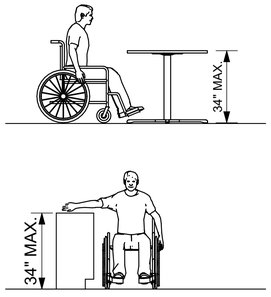


TRUNCATED DOME SPACING

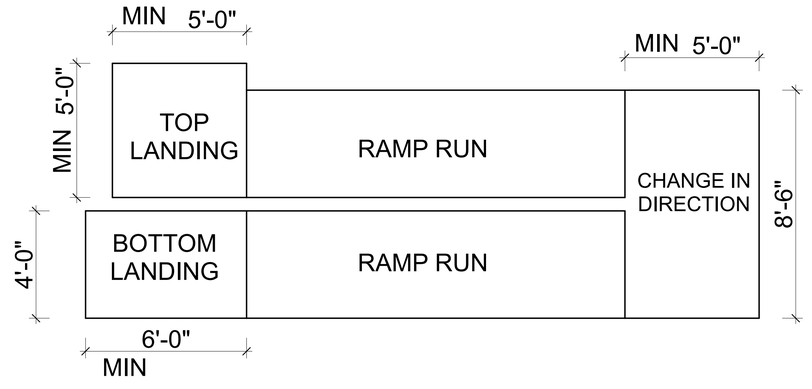


TRUNCATED DOME SECTION A-A

16 Truncated Domes 1' = 1'-0"



11 Accessible Counter & Tableware Detail 3/8" = 1'-0"



8 Accessible Ramp 3/8" = 1'-0"

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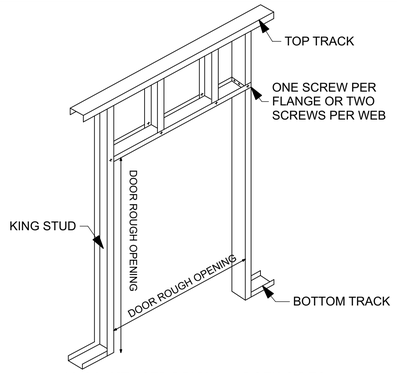
SHEET TITLE

Accessibility Details

Thursday, August 22, 2024

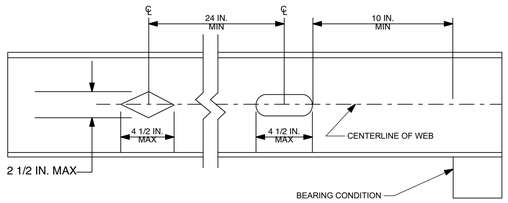
A-109

SHEET 15 OF 25



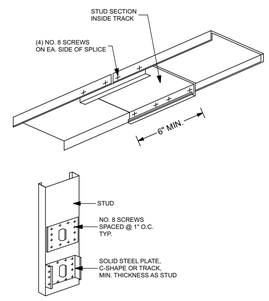
20 GA. MTL STD DRYWALL BOTH SIDES

13 | **TYP. Door Framing Detail** | 3/8" = 1'-0"



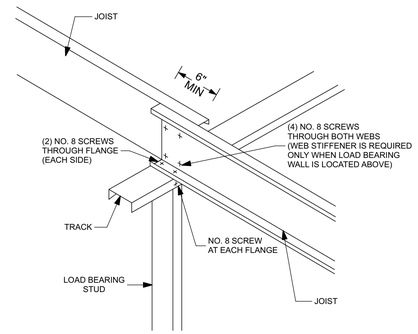
20 GA. MTL STD DRYWALL BOTH SIDES

9 | **Floor Joist Web Holes Details** | 1/4" = 1'-0"



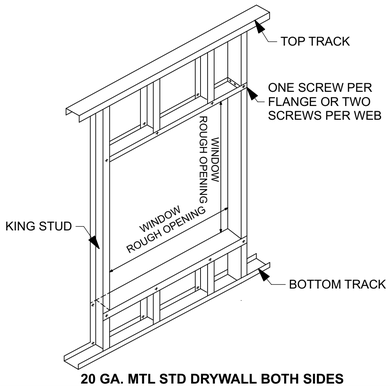
20 GA. MTL STD DRYWALL BOTH SIDES

5 | **Track Splice & Hole Patch** | 3/16" = 1'-0"



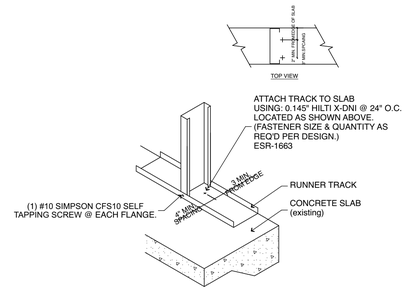
20 GA. MTL STD DRYWALL BOTH SIDES

1 | **Lapped Joist Supported on Interior Load Bearing Wall Detail** | 1/4" = 1'-0"



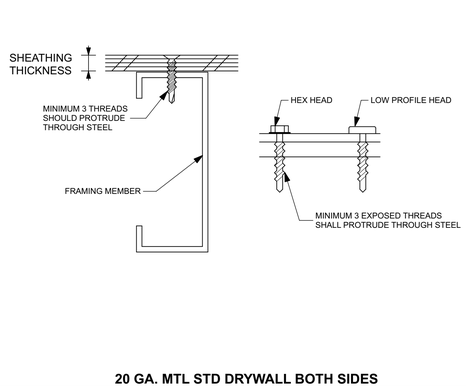
20 GA. MTL STD DRYWALL BOTH SIDES

14 | **TYP. Window Framing Detail** | 3/8" = 1'-0"



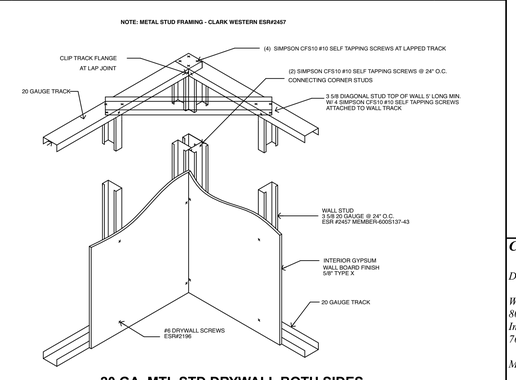
20 GA. MTL STD DRYWALL BOTH SIDES

10 | **Track Attachment Detail** | 1" = 1'-0"



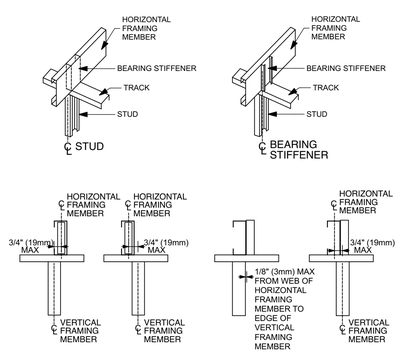
20 GA. MTL STD DRYWALL BOTH SIDES

6 | **Screw Attachment Detail** | 1/4" = 1'-0"



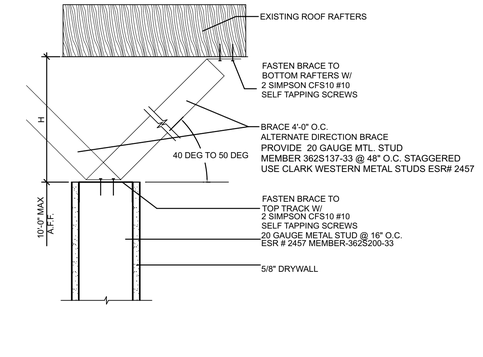
20 GA. MTL STD DRYWALL BOTH SIDES

2 | **Corner Framing Detail** | 3/4" = 1'-0"



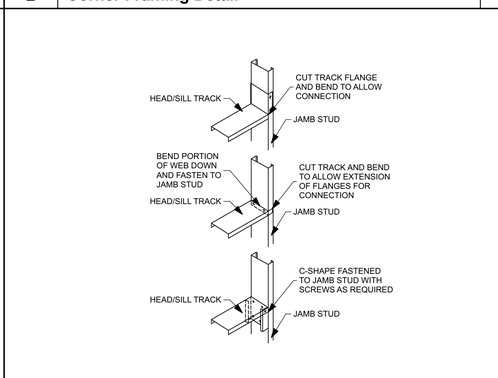
20 GA. MTL STD DRYWALL BOTH SIDES

15 | **In Line Framing Detail** | 3/16" = 1'-0"



20 GA. MTL STD DRYWALL BOTH SIDES

11 | **WALL BRACING DETAIL** | 3/4" = 1'-0"



20 GA. MTL STD DRYWALL BOTH SIDES

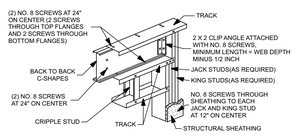
7 | **Stud Web Holes Detail** | 1/4" = 1'-0"

20 GA. MTL STD DRYWALL BOTH SIDES

3 | **TYP. Head & Sill Detail** | 1/4" = 1'-0"

TABLE R603.7(1)
TOTAL NUMBER OF JACK AND KING STUDS REQUIRED AT EACH END OF OPENING

SIZE OF OPENING (FEET-INCHES)	24" O.C. STUD SPACING		16" O.C. STUD SPACING	
	NO. OF JACK STUDS	NO. OF KING STUDS	NO. OF JACK STUDS	NO. OF KING STUDS
≤ 3'-6"	1	1	1	1
> 3'-6" TO 5'-0"	1	2	1	2
> 5'-0" TO 5'-6"	1	2	2	2
> 5'-6" TO 8'-0"	1	2	2	2
> 8'-0" TO 10'-6"	2	2	2	3
> 10'-6" TO 12'-0"	2	2	3	3
> 12'-0" TO 13'-0"	2	3	3	3
> 13'-0" TO 14'-0"	2	3	3	4
> 14'-0" TO 16'-0"	2	3	3	4
> 16'-0" TO 18'-0"	3	3	4	4



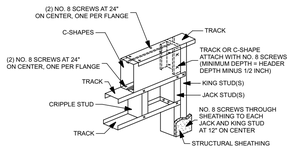
20 GA. MTL STD DRYWALL BOTH SIDES

16 | **Header Detail** | 3/16" = 1'-0"

TABLE R603.7(2)
HEADER TO KING STUD CONNECTION REQUIREMENTS A,B,C,D

HEADER SPAN (FEET)	BASIC WIND SPEED (MPH), EXPOSURE		
	85 B OR SEISMIC DESIGN CATEGORIES A, B, C, D0, D1 AND D2	85 C OR LESS THAN 110B	LESS THAN 110C
< 4'	(4) NO. 8 SCREWS	(4) NO. 8 SCREWS	(6) NO. 8 SCREWS
> 4' TO 8'	(4) NO. 8 SCREWS	(4) NO. 8 SCREWS	(8) NO. 8 SCREWS
> 8' TO 12'	(4) NO. 8 SCREWS	(6) NO. 8 SCREWS	(10) NO. 8 SCREWS
> 12' TO 16'	(4) NO. 8 SCREWS	(8) NO. 8 SCREWS	(12) NO. 8 SCREWS

FOR SI: 1 INCH = 25.4 mm , 1 FOOT = 304.8 mm , 1 MILE PER HOUR = 0.447 m/s, 1 POUND = 4.448 N.
A) ALL SCREW SIZES SHOWN ARE MINIMUM
B) FOR HEADERS LOCATED ON THE FIRST FLOOR OF A TWO STORY BUILDING OR THE FIRST OR SECOND FLOOR OF A THREE STORY BUILDING, THE TOTAL NUMBER OF SCREWS IS PERMITTED TO BE REDUCED BY 2 SCREWS, BUT THE TOTAL NUMBER OF SCREWS SHALL BE NO LESS THAN 4.
C) FOR ROOF SLOPES OF 6:12 OR GREATER, THE REQUIRED NUMBER OF SCREWS MAY BE REDUCED BY HALF, BUT THE TOTAL NUMBER OF SCREWS SHALL NOT BE LESS THAN FOUR.
D) SCREWS CAN BE REPLACED BY AN UPLIFT CONNECTOR WHICH HAS A CAPACITY OF THE NUMBER OF SCREWS MULTIPLIED BY 164 POUNDSSE, G., 12-NO. 8 SCREWS CAN BE REPLACED BY AN UPLIFT CONNECTOR WHOSE CAPACITY EXCEEDS 12 X 164 POUNDS = 1,968 POUNDS).



20 GA. MTL STD DRYWALL BOTH SIDES

8 | **Wiring & Piping Installation Detail** | 1/4" = 1'-0"

20 GA. MTL STD DRYWALL BOTH SIDES

4 | **Wall to Foundation Connection Detail** | 1/4" = 1'-0"

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NO. C5297
REN. 11-30-25
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Parra Construction

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Daniel Grubitch
175 E Main St.
Morgan Hill, 95037
760-567-2347
APN # 603-310-005
LEGAL ADDRESS :
POR SEC 32 T5S R8E

MARK	DATE	DESCRIPTION

SCALE:

PROJECT NO: 03282024
MODEL FILE: VMP Event Center. 04.11.24 V27.pln
DRAWN BY: Bob Sipovac
CHK'D BY: #Contact Full Name

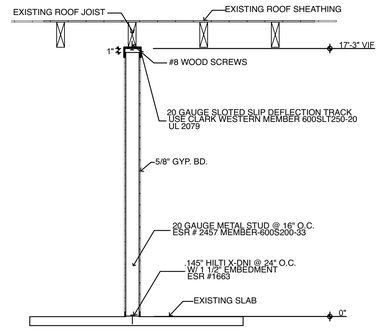
SHEET TITLE

Typ. Metal Stud Detail

Thursday, August 22, 2024

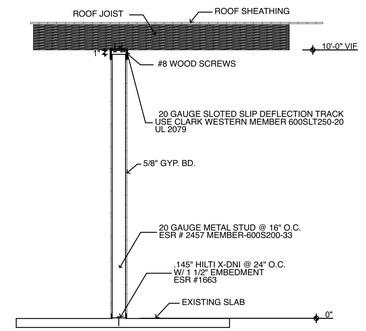
A-110

SHEET **16** OF **25**



20 GA. MTL STD DRYWALL BOTH SIDES

1	FULL HEIGHT WALL DETAIL	3/8" = 1'-0"



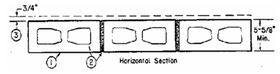
20 GA. MTL STD DRYWALL BOTH SIDES

2	Full Height Wall Detail	3/16" = 1'-0"

UL FIRE RATED

Design No. U906

Bearing Wall Rating - 2 HR.
Nonbearing Wall Rating - 2 HR.



1. **Concrete Blocks*** - Nominal 6 by 8 by 16-in., hollow or solid.
Classificaon O-2 (2 hr).
Anchor Concrete Products, Inc.
Florida Rock Industries, Inc.
Pike Industries Inc., d/b/a Tilcon Whitcomb.
Westbrook Concrete Block Co., Inc.

2. **Mortar** - Blocks laid in full bed of mortar, nom. 3/8 in. thick, of not less than 2-1/4 and not more than 3-1/2 parts of clean sharp sand to 1 part Portland cement (proportioned by volume) and not more than 50 percent hydrated lime (by cement volume). Vertical joints staggered.

3. **Portland Cement Stucco or Gypsum Plaster** - If used, add 1/2 hr. to Classification. Attached to concrete blocks (Item 1)

4. **Foamed Plastic*** - (Optional - not shown) 1-1/2 in thick max, 4 ft wide sheathing attached to concrete blocks (Item 1).

Celotex Corp. - Type Thermax

*Bearing the UL Classification Marking

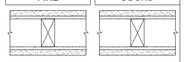
3	WCB-FireRated-U906	1:1.33

WALLS AND INTERIOR PARTITIONS, WOOD-FRAMED

GA FILE NO. WP 3430	GENERIC	1 HOUR FIRE	40 to 44 STC SOUND

GYPSUM LATH, GYPSUM PLASTER, WOOD STUDS

1/2" 1:2 gypsum-sand plaster applied over 3/8" plain gypsum lath applied at right angles to each side of 2 x 4 wood studs 16" o.c. with 13 gage blued lath nails, 1 1/8" long, 0.0915" shank, 19/64" heads, 4" o.c. **(LOAD-BEARING)**



Thickness: 5 3/8"
Approx. Weight: 15 psf
Fire Test: OSU T-948, 7-17-58; OSU T-1380, 7-5-60
Sound Test: RAL TL58-60, 8-7-58

4	GA-FILE-NO-WP-3430	1' = 1'-0"

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1 05/10/24
Daniel Glubatch
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APN # 603-310-005
LEGAL ADDRESS :
POR SEC 32 T5S R8E

MARK	DATE	DESCRIPTION

SCALE:

PROJECT NO: 03282024
MODEL FILE: VMP Event Center. 04.11.24 V27.pln
DRAWN BY: Bob Sipovac
CHK'D BY: #Contact Full Name

SHEET TITLE

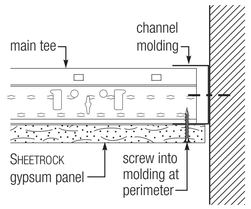
Typ. Metal Stud Detail

Thursday, August 22, 2024

A-111

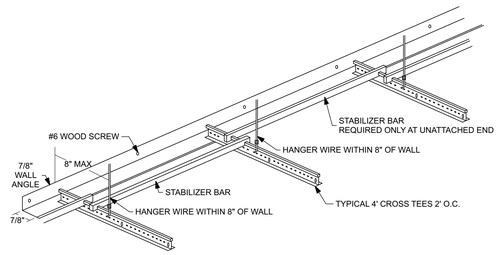
SHEET 17 OF 25

HEAVY DUTY T-BAR SYSTEM



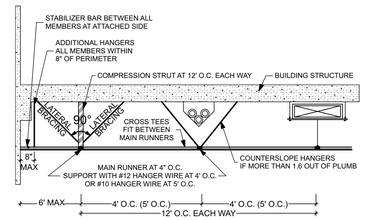
13 | **Ceiling Detail** | 1/2" = 1'-0"

HEAVY DUTY T-BAR SYSTEM

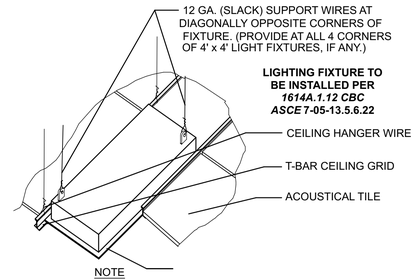


9 | **Perimeter Wires and Stabilizer Bar Detail** | 3/16" = 1'-0"

HEAVY DUTY T-BAR SYSTEM



5 | **Typ. Suspended Ceiling Installation Detail** | 3/16" = 1'-0"

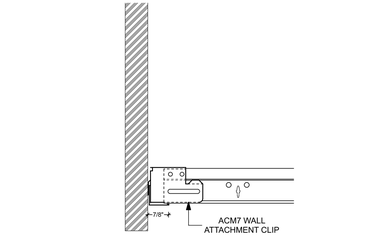


NOTE

1. Luminaires) in Suspended Ceiling Systems (AC184). The lighting fixtures may also be attached to the framing members with power-driven nails having a minimum shear strength of 314 lbf (1395 N) and minimum tension strength of 137 lbf (609.6 N) for a No. 20/20 gage metal-to-metal connection.

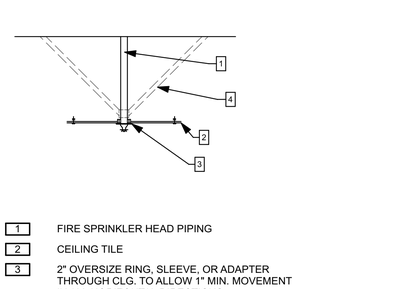
1 | **Light Bracing** | 1" = 1'-0"

HEAVY DUTY T-BAR SYSTEM



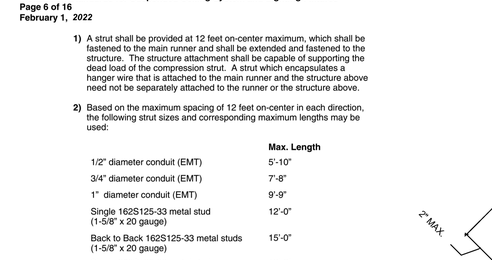
14 | **Ceiling Detail** | 3/8" = 1'-0"

HEAVY DUTY T-BAR SYSTEM



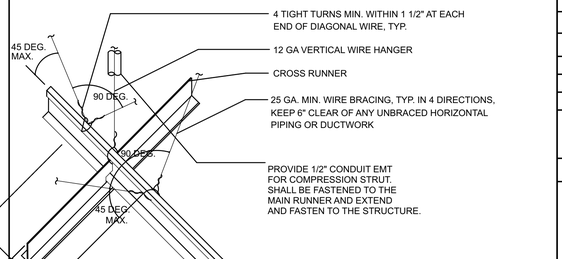
10 | **TYP. Ceiling Grid Layout Detail** | 3/16" = 1'-0"

HEAVY DUTY T-BAR SYSTEM



6 | **Unattached End of Grid Detail** | 1/4" = 1'-0"

HEAVY DUTY T-BAR SYSTEM

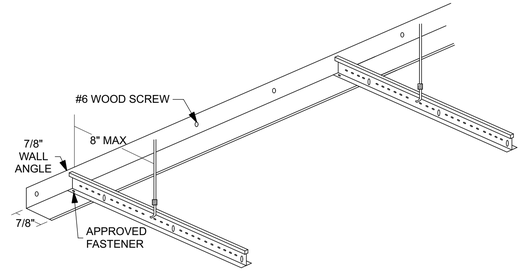


2 | **hanger Brace** | 3" = 1'-0"

HEAVY DUTY T-BAR SYSTEM

15 | **ACM7 Wall Attachment Detail** | 3/16" = 1'-0"

HEAVY DUTY T-BAR SYSTEM



11 | **Susp. Ceiling Detail** | 1/4" = 1'-0"

1 FIRE SPRINKLER HEAD PIPING

2 CEILING TILE

3 2" OVERSIZE RING, SLEEVE, OR ADAPTER THROUGH CLG. TO ALLOW 1" MIN. MOVEMENT IN ALL HORIZONTAL DIRECTIONS

4 ALTERNATE OPTION: PROVIDE RIGID BRACING AT EACH SPRINKLER HEAD TO LIMIT LATERAL DEFLECTION

12 | **T-BAR PENETRATION DETAIL** | 3/8" = 1'-0"

IBC/25/#2
Installation Standards for Suspended Ceiling System and Lighting Fixtures
Page 6 of 16
February 1, *2022*

1) A strut shall be provided at 12 feet on-center maximum, which shall be fastened to the main runner and shall be extended and fastened to the structure. The structure attachment shall be capable of supporting the dead load of the compression strut. A strut which encapsulates a hanger wire that is attached to the main runner and the structure above need not be separately attached to the runner or the structure above.

2) Based on the maximum spacing of 12 feet on-center in each direction, the following strut sizes and corresponding maximum lengths may be used:

	Max. Length
1/2" diameter conduit (EMT)	5'-10"
3/4" diameter conduit (EMT)	7'-8"
1" diameter conduit (EMT)	9'-9"
Single 162S125-33 metal stud (1-5/8" x 20 gauge)	12'-0"
Back to Back 162S125-33 metal studs (1-5/8" x 20 gauge)	15'-0"
Single 250S125-33 metal stud (2-1/2" x 20 gauge)	13'-6"
Back to Back 250S125-33 metal studs (2-1/2" x 20 gauge)	15'-0"

Where utilizing a strut that is not indicated on the table above, the strut shall be capable of resisting the vertical component of 180 pounds induced by the wires.

8 | **Susp. Ceiling Detail** | 1:12.00

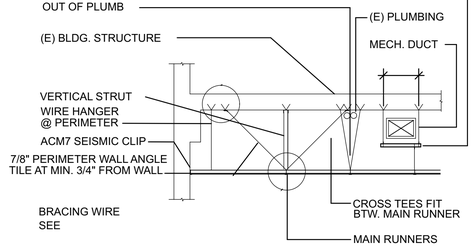
GRID SYSTEM TO BE INSTALLED PER Installed to ASTM C636 and ASTM E580

HEAVY DUTY T-BAR SYSTEM

SECURE ALL HANGERS TO BLDG. STRUCTURE OR PROVIDE TRAPEZE OF 2 - 1 1/4" COLD-ROLLED CHANNELS, BACK-TO-BACK @ DUCTWORK & OTHER OBSTRUCTIONS, TYP.

PROVIDE COUNTER SLOPE HANGERS WHERE HANGER IS MORE THAN 1:6 OUT OF PLUMB

CEILING GRID TO BE HEAVY DUTY & INSTALLED PER *Installed to ASTM C636 and ASTM E580*



3 | **T-Bar Brace** | 3" = 1'-0"

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REN. 11-30-25
STATE OF CALIFORNIA

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POR SEC 32 T5S R8E

MARK	DATE	DESCRIPTION

SCALE:

PROJECT NO:	03282024
MODEL FILE:	VMP Event Center. 04.11.24 V27.pln
DRAWN BY:	Bob Sipovac
CHK'D BY:	#Contact Full Name

SHEET TITLE

T-Bar Ceiling Details

Thursday, August 22, 2024

A-112

SHEET **18** OF **25**

ELECTRICAL SYMBOLS LEGEND

GENERAL

SYMBOL	DESCRIPTION
	EXISTING
	REMOVE
	NEW WORK
	HIDDEN OR BURIED
3	KEYED NOTE
3	ELECTRICAL EQUIPMENT DESIGNATION (SEE SCHEDULE)
5	FEEDER SIZE DESIGNATION (SEE LEGEND)
5	NAMEPLATE DESIGNATION (SEE SCHEDULE)

ABBREVIATIONS

ABBREV.	DEFINITION
A	AMPS
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AWG	AMERICAN WIRE GAUGE
C	CONDUIT
EGC	EQUIPMENT GROUNDING CONDUCTOR
EMT	ELECTRICAL METALLIC TUBING
EPO	EMERGENCY POWER OFF
FLA	FULL LOAD AMPS
GEC	GROUNDING ELECTRODE CONDUCTOR
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
HP	HORSEPOWER
IMC	INTERMEDIATE METAL CONDUIT
KVA	KILOVOLT AMPS
KW	KILOWATT
MCB	MAIN CIRCUIT BREAKER
MLO	MAIN LUGS ONLY
NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
NEC	NATIONAL ELECTRIC CODE
P	POLE
ϕ OR PH	PHASE
PVC	POLYVINYL CHLORIDE
RMC	RIGID METAL CONDUIT
SSBJ	SUPPLY SIDE BONDING JUMPER
SWBD	SWITCHBOARD
TYP	TYPICAL
UON	UNLESS OTHERWISE NOTED
V	VOLTAGE
VAV	VARIABLE AIR VOLUME
W	WIRE
W/	WITH
WP	WEATHERPROOF

LIGHTNING PROTECTION

SYMBOL	DESCRIPTION
	STRIKE TERMINATION DEVICE
	GROUND ROD

RACEWAY & CONDUCTORS

SYMBOL	DESCRIPTION
	HOME RUN (ARROWHEADS INDICATE # OF CIRCUITS)
	CIRCUIT NEUTRAL SWITCHED LINE EGC
	CONDUIT CAP
B B	BUSWAY
W W	WIREWAY

DEVICES

SYMBOL	DESCRIPTION
X	DUPLEX RECEPTACLE USE "X" TO DESIGNATE DEVICE. TYPICAL OF MOST RECEPTACLES GFCI = GFCI RATED GFCI-P = GFCI PROTECTED WP = WEATHERPROOF (IN-USE COVER WG = WEATHERPROOF & GFCI +84 = NON-STANDARD MOUNTING HEIGHT. NUMBER INDICATES INCHES AFF
X	SINGLE RECEPTACLE
X	DOUBLE DUPLEX RECEPTACLES
X	DUPLEX RECEPTACLE, SPLIT WIRED
X	SPECIAL PURPOSE RECEPTACLE. USE SUBSCRIPT TO IDENTIFY TYPE ON PLANS
X	FLOOR MOUNTED RECEPTACLE
	MULTI OUTLET ASSEMBLY
J	JUNCTION BOX
J	JUNCTION BOX, WALL MOUNTED
P	PHOTOCELL
S	SPEAKER, CEILING MOUNTED
S	SPEAKER, WALL MOUNTED
T	THERMOSTAT
40/60	FUSIBLE SAFETY SWITCH (NUMBERS INDICATE FUSE/SWITCH SIZES)
60	NON-FUSIBLE SAFETY SWITCH (NUMBER INDICATES SWITCH SIZE)
2/30	ELECTRICAL STARTER COMBINATION WITH DISCONNECT 2 = NEMA STARTER SIZE 30 = CIRCUIT BREAKER OR DISCONNECT SWITCH SIZE
2	ELECTRICAL STARTER OR MOTOR CONTROLLER 2 = NEMA STARTER SIZE
T	TRANSFORMER
PP-A	SWITCHBOARD, POWER PANELBOARD
LP-1	LIGHTING PANELBOARD
12,700A	MAXIMUM AVAILABLE FAULT CURRENT

LIGHTING

SYMBOL	DESCRIPTION
$X	SWITCH, SINGLE POLE USE "X" TO DESIGNATE DEVICE. TYPICAL OF MOST SWITCHES 2 = DOUBLE POLE 3 = THREE WAY 4 = FOUR WAY K = KEY OPERATED OS = OCCUPANCY SENSING a = LOWERCASE SUBSCRIPT DESIGNATES CONTROL OF PARTICULAR LOADS
A 1,b	LUMINAIRE, TROFFER (2'X4') A = FIXTURE TYPE 1 b = CIRCUIT NUMBER SWITCH CONTROLLING FIXTURE
A 1,b	LUMINAIRE WITH BATTERY
A 1,b	LUMINAIRE, TROFFER (2'x2')
A 1,b	LUMINAIRE, STRIP (1'x4')
A 1,b	LUMINAIRE, WALL MOUNTED
A 1,b	LUMINAIRE, CEILING MOUNTED
	LIGHT POLE WITH LUMINAIRE
	UNIT EQUIPMENT FOR EGRESS LIGHTING
	EXIT LUMINAIRE, CEILING MOUNTED - SHADED SIDE INDICATES FACE SIDE. PROVIDE DIRECTIONAL ARROWS AS INDICATED ON PLANS
	EXIT LUMINAIRE, WALL MOUNTED

SINGLE-LINE DIAGRAM

SYMBOL	DESCRIPTION
300 / 400	CIRCUIT BREAKER (TRIP / FRAME)
1000 / 1600	DRAWOUT CIRCUIT BREAKER (TRIP / FRAME)
300 / 400	BUS PLUG CIRCUIT BREAKER (TRIP / FRAME)
7 MCP	MOTOR CIRCUIT PROTECTOR
300A	DISCONNECT SWITCH (NUMBER INDICATES AMPERAGE RATING)
300A	FUSE (NUMBER INDICATES AMPERAGE RATING)
1000 / 1600	MEDIUM VOLTAGE DRAWOUT CIRCUIT BREAKER (TRIP / FRAME)
480V TR-1 120/208V 500 KVA	TRANSFORMER (DELTA-WYE WO/BONDING JUMPER)

SINGLE-LINE DIAGRAM

SYMBOL	DESCRIPTION
480V TR-1 120/208V 500 KVA	TRANSFORMER (DELTA-WYE W/BONDING JUMPER)
	SHIELDED TRANSFORMER
VFD	VARIABLE FREQUENCY DRIVE
2	MOTOR (NUMBER INDICATES HORSEPOWER)
300A 400A LP-1	PANELBOARD WITH MAIN CIRCUIT BREAKER
225A MLO LP-1	PANELBOARD WITH MAIN LUGS ONLY
	HEATER
	GROUND
G	GENERATOR
3	POTENTIAL TRANSFORMER (NUMBER INDICATES QUANTITY)
3000/5 3	CURRENT TRANSFORMER (NUMBERS INDICATE RATIO AND QUANTITY)
AS	AMMETER SWITCH
VS	VOLTMETER SWITCH
A	AMMETER
V	VOLTMETER
KW	KILOWATT METER
N A L	TRANSFER SWITCH
K 1	KEY INTERLOCK (NUMBER INDICATES KEY ID)
	BATTERY
	SURGE ARRESTOR
SPD	SURGE PROTECTIVE DEVICE
CR 1	CONTROL RELAY (NUMBER INDICATES RELAY ID)

GENERAL NOTES

1. PERFORM INSTALLATION IN ACCORDANCE WITH THE 2022 CEC , NATIONAL ELECTRICAL CODE (NEC), AND THE OCCUPATIONAL SAFETY AND HEALTH ACT (OSHA).
2. EQUIPMENT SHALL BE LISTED BY A NATIONALLY RECOGNIZED TESTING LABORATORY (NRTL) WHEN REQUIRED BY THE NEC OR IF IT CONTAINS A VOLTAGE THAT IS GREATER THAN 50VAC OR 100VDC.
3. FOR ELECTRICAL EQUIPMENT THAT CONTROLS OR SWITCHES 480 VOLT POWER CIRCUITS, THE CONTACTS THAT CONTROL OR SWITCH THE POWER MUST BE RATED AT 600 VOLTS. THIS INCLUDES, BUT IS NOT LIMITED TO, CIRCUIT BREAKERS, MOTOR STARTERS, DISCONNECTS, TRANSFER SWITCHES.
4. ROUTE RACEWAYS TO SUIT EQUIPMENT AND BUILDING STRUCTURE. LIMIT THE USE OF EMT TO AREAS WHERE IT WILL NOT BE SUBJECT TO PHYSICAL DAMAGE OR CORROSION. USE IMC, PVC, OR RMC FOR WORK EMBEDDED IN CONCRETE. USE IMC OR RMC FOR WORK EXPOSED TO PHYSICAL DAMAGE. USE MINIMUM 3/4 INCH CONDUIT EXCEPT AS FOLLOWS: 1/2" CONDUIT MAY BE USED FOR CONTROL CIRCUITS; 3/8" FLEXIBLE METAL CONDUIT MAY BE USED TO CONNECT LIGHT FIXTURES IN SUSPENDED CEILINGS. USE LIQUID-TIGHT FLEXIBLE METAL CONDUIT FOR FLEXIBLE CONNECTIONS TO EQUIPMENT IN MECHANICAL ROOMS OR OUTDOORS.
5. NEW BRANCH CIRCUITS SHALL BE LABELED AT THE ORIGINATING PANELBOARD, ON THE PANELBOARD LEGEND. THEY SHALL BE ALSO LABELED AT THE LOAD END ON THE RECEPTACLE, LIGHT SWITCH, OR THE PIECE OF EQUIPMENT (E.G. MOTOR STARTER, SAFETY SWITCH).
6. RACEWAY PENETRATIONS THROUGH WALLS AND/OR FLOORS SHALL BE SEALED APPROPRIATELY WITH AN APPROVED SEALANT. IF THE PENETRATION IS THROUGH A FIRE-RATED ASSEMBLY, IT MUST HAVE A NRTL LISTED FIRE SEAL WITH A STATEMENT OF SPECIAL INSPECTION.
7. INTERNAL RACEWAY SEALS FOR WATER, TEMPERATURE, AND/OR RADIOLOGICAL SHALL BE IDENTIFIED FOR USE WITH THE CONDUCTOR OR CABLE INSULATION.
8. ELECTRICAL DRAWINGS ARE CONSIDERED DIAGRAMMATIC AND INDICATE GENERAL ARRANGEMENT OF WORK AND SYSTEMS. COORDINATE ROUGH-IN REQUIREMENTS AND INSTALLATION REQUIREMENTS WITH OTHER TRADES.
9. ALL BRANCH CIRCUIT WIRING, RACEWAY, AND FEEDERS SHALL BE INSTALLED CONCEALED BEHIND BUILDING FINISHES UNLESS OTHERWISE NOTED.
10. PROVIDE ALL NECESSARY ANGLES, CHANNELS, SLOTTED CHANNEL, AND SUPPORTS, AS REQUIRED TO ADEQUATELY SUPPORT ELECTRICAL RACEWAYS AND ASSOCIATED EQUIPMENT IN A MANNER THAT DOES NOT OVERLOAD THE BUILDING STRUCTURAL SYSTEM.
11. THE NEC SIZE REQUIREMENTS FOR PULL BOXES, JUNCTION BOXES, AND CONDUIT BODIES ARE AS FOLLOWS:
    13.1. USE 314.16 FOR CONDUCTORS 6 AWG AND SMALLER.
    13.2. USE 314.28 FOR CONDUCTORS 4 AWG AND LARGER.

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72-651 THEODORA LN. PALM DESERT CA. 92260
LIC. # 581636 OFFICE: 760-567-2347 FAX: 760-779-9525

CONSULTANTS . . . . . .

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#Structural Engineering

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CIVIL:

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Parra Construction

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760-567-2347
APN # 603-310-005
LEGAL ADDRESS :
POR SEC 32 T5S R8E

MARK	DATE	DESCRIPTION
1	05/10/24	

SCALE:

PROJECT NO:	03282024
MODEL FILE:	VMP Event Center. 04.11.24 V27.pln
DRAWN BY:	Bob Sipovac
CHK'D BY:	#Contact Full Name

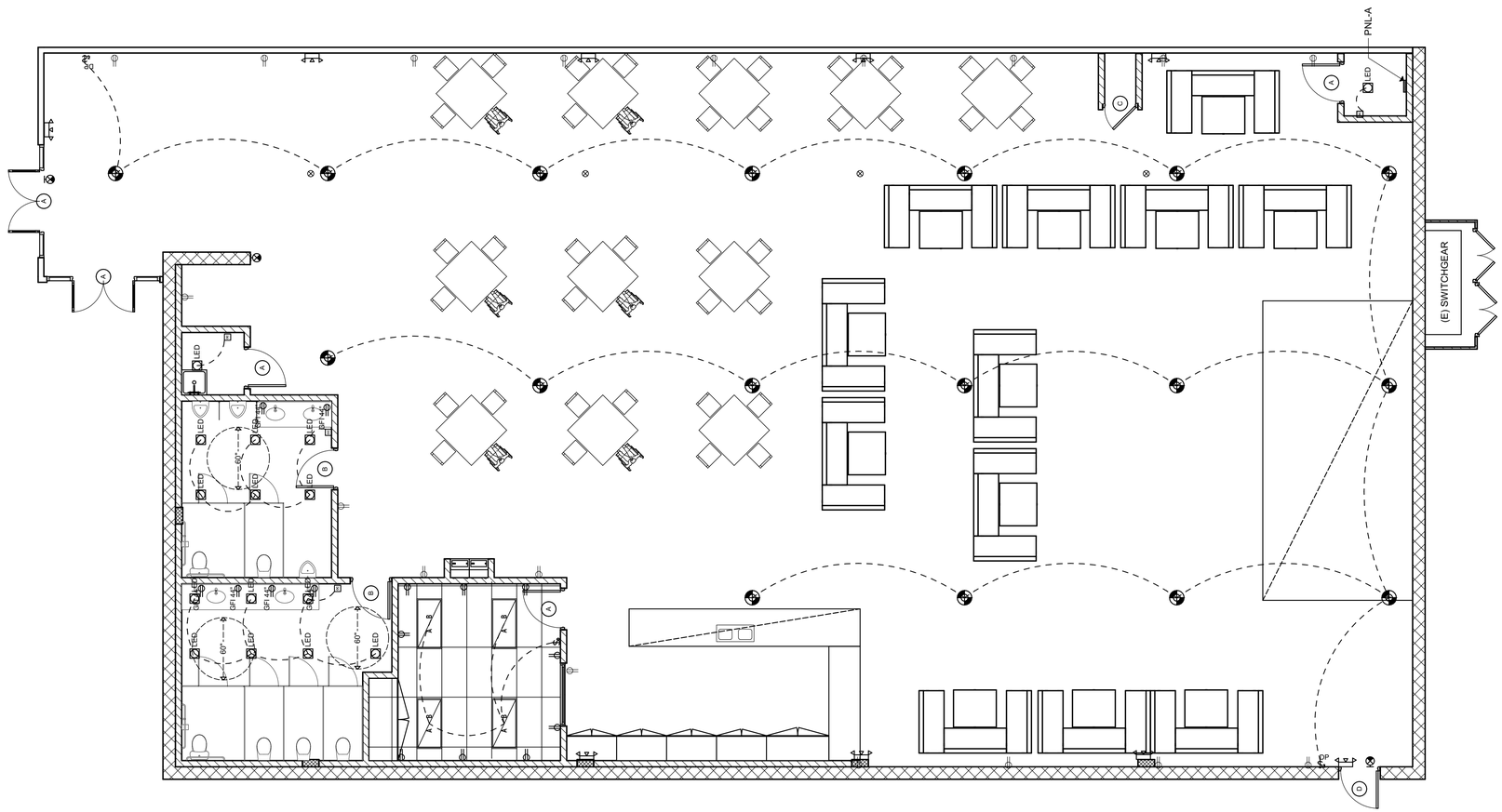
SHEET TITLE

Elec. General Notes

Thursday, August 22, 2024

E-1

SHEET 19 OF 25



LITHONIA LIGHTING

FEATURES & SPECIFICATIONS

INTENDED USE — Suitable for architectural applications where aesthetics and superior performance are required.

CONSTRUCTION — High-polish, injection-molded virgin acrylic panel, ultrasonically welded to eliminate visible hardware. Graduated-depth of molded letters provides uniform light distribution on graphics. Standard housing finish is brushed aluminum.

Precision-molded, textured letters – 6" high with 3/4" stroke, with 100 ft viewing distance rating, based upon UL924 standard. Chevron indicator direction must be specified.

Recessed rough-in section constructed of 20-gauge, die-formed galvanized steel. Extruded aluminum housing trim mounts flush onto wall or ceiling.

ELECTRICAL — Sealed, maintenance-free nickel-cadmium battery delivers 90 minutes capacity to lamp. Constant-current series charger, 24-hour recharge after 90-minute discharge.

Polarized battery connector simplifies installation and maintenance; prevents charger damage due to improper connection.

OPTICS — LEDs mounted on printed circuit board. The typical life of the exit LED lamp is 10 years.

Low energy consumption – only 2.3W for 120V single-face red sign; 1.7W for 120V single-face green sign.

INSTALLATION — Recessed mount - rough-in section for back, ceiling or end mounting. Fits into minimum wall or ceiling opening 13-5/8" L x 4-1/2" W x 3-1/8" D.

Adjustable T-bar hangers adapt mounting tray for mounting in suspended ceilings or variable-size framed openings. Trim ring has 3/4" variable depth adjustment to ensure flush fit against surface of wall or ceiling.

Plug-in wire connections and self-captive mounting screws for mounting panel/trim to rough-in section.

LISTINGS — UL listed. Non-IC recessed mounting. Meets UL 924, NFPA 101 (current Life Safety Code), NEC and OSHA illumination standards, and State of Minnesota requirements for less than 20W energy consumption. NEMA Premium certified.

WARRANTY — 5-year limited warranty, including lamps. Complete warranty terms located at www.acuitybrands.com/CustomerResources/Terms_and_conditions.aspx

NOTE: Actual performance may differ as a result of end-user environment and application.
All values are design or typical values, measured under laboratory conditions at 25°C.
Specifications subject to change without notice.

Catalog Number	
Notes	
Type	

PRECISE COLLECTION

Edge-Lit Exits

LRP EL N

LED LAMPS EMERGENCY

LED

NEMA Premium

ORDERING INFORMATION For shortest lead times, configure products using **bolded options.** **Example:** LRP 1 RMR LA 120/277 EL N

LRP												120/277	
Family		**Housing color**		**Number of faces**		**Letters/background**		**Directional indicators**[1]		**Input voltage**	
LRP	LED	**(blank)**	Brushed aluminum	**1**	Single face	RW	Red on white	**(blank)**	None	**120/277**	Dual voltage
		W	White	**2**	Double face	**RC**	Red on clear (single face only)	**LA**	Left[2]		
		B	Black			**RMR**	Red on mirror (simulates clear background for double-face exits)	**RA**	Right[2]		
		BZ	Bronze					**LRA**	Left and right		
		BS	Polished brass			GW	Green on white	**DA**	Double face[2]		
		U	Unfinished			**GC**	Green on clear (single face only)				
						GMR	Green on mirror (simulates clear background for double-face exits)				

EL N							
Emergency operation		**Mounting**		**Item type**		**Options**[4]	
EL N	Nickel cadmium battery	**(blank)**	Ceiling or back mount	**(blank)**	Complete exit panel and rough-in section	FI	Fire alarm interface[5]
		EM	Recessed end mount	**PNL**	Panel assembly only	F	Flashing emergency operation (one flash/second)[5]
						FA	Flashing emergency operation and intermittent audible alarm

Accessories[3,6]: *Order as separate items.*	
ELA R LRS 120/277 EL N	Single-face, red LED emergency rough-in section
ELA G LRS 120/277 EL N	Single-face, green LED emergency rough-in section
ELA R JLRS 120/277 EL N	Double-face, red LED emergency rough-in section
ELA G JLRS 120/277 EL N	Double-face, green LED emergency rough-in section

Notes
1. See chart on back for more information.
2. Only available with single face.
3. Only available with double face.
4. When ordering rough-in separately, all options must be included with rough-in nomenclature. Example: ELA R LRS 120/277 EL N FA.
5. Choice of F or FI. Not available with both.
6. Rough-in supplied standard with exit unless PNL suffix is specified. Order separately only if needed for early installation.

1 EXIT LIGHTING

LITHONIA LIGHTING

FEATURES & SPECIFICATIONS

INTENDED USE
Suitable for emergency lighting applications such as stairways and hallways.

CONSTRUCTION
Injection-molded, flame-retardant, high-impact, thermoplastic housing with snap-fit design components with LED lamps for easy installation. Universal J-box pattern. Track and swivel arrangement permits full range of lamp adjustment.

OPTICS
The typical life of the LED is 10 years. Two 1.8W LED lamps for emergency light.

ELECTRICAL
Dual-voltage input 120V or 277V AC. Emergency unit provided with test switch, status indicator and rechargeable battery. Maintenance-free nickel-cadmium battery provides 90 minutes of emergency power.

LISTINGS
UL Listed, Meets UL 924, NFPA 101, NFPA 70-NEC and OSHA illumination standards. Damp location 32°F to 122°F (0°C to 50°C) listed standard.

WARRANTY
Fixtures are covered by Lithonia Lighting 24-month warranty against mechanical defects in manufacture.

Complete warranty terms located at
www.acuitybrands.com/CustomerResources/Terms_and_conditions.aspx

All life safety equipment, including emergency lighting for path of egress must be maintained, serviced, and tested in accordance with all National Fire Protection Association (NFPA) and local codes. Failure to perform the required maintenance, service, or testing could jeopardize the safety of occupants and will void all warranties.

Actual performance may differ as a result of end-user environment and application.
Note: Specifications subject to change without notice.

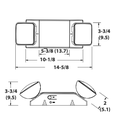
Catalog Number	
Notes	
Type	

Contractor Select

LED UNITS

LED Lamps

LED



All dimensions are inches (centimeters) unless otherwise indicated.

Weight: 4 lbs. (1.82 kgs.).

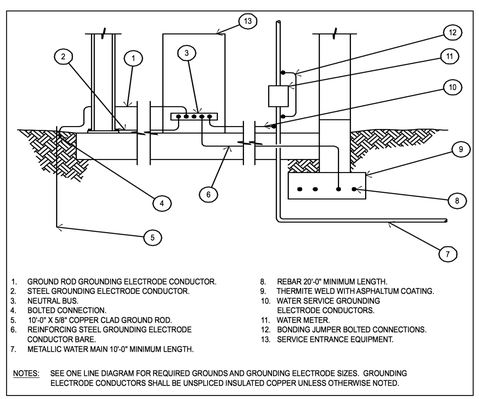
ORDERING INFORMATION All configurations of this product are considered "standard" and have short lead times.

Catalog Number	UPC	Description	Supply Voltage	Input Wattage[1]	Standard Pallet Qty.	Carton Qty.
EU2 LED M12	784251874493	Emergency lighting unit	120/277	1.8	324	12

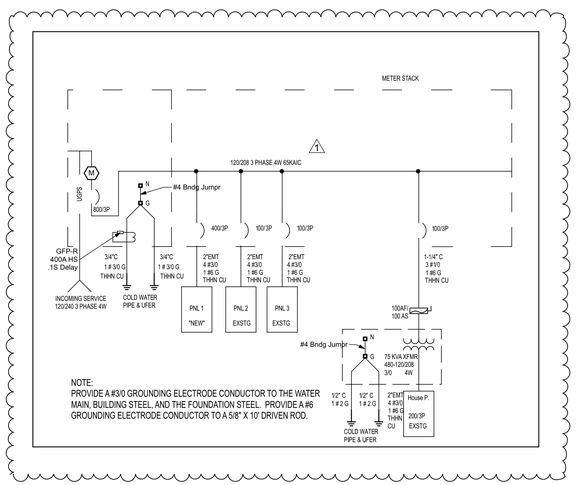
2 EMERGENCY LIGHTING

Equipment & lighting schedule

Item	QTY	EQUIPMENT	NEW/ EXIST/ DEMO	MFG	MODEL	DIMENSIONS w x d x h	GAS	BTU	ELECTRIC	WATTAGE	HOT WATER	COLD WATER	DIRECT WASTE	INDIRECT WASTE
1	17	LED HIGH BAY LIGHTS	N	PLT SOLUTIONS	PT-11906 100W	14" x 14" x 8.5"			120v/60/1	100				
2	14	RECESSED LED CAN	N	HALO	HALO H750ICAT 6IN LED	6.8" x 6.8" x 2.8"			120v/60/1	12				
3	8	EMERGENCY LIGHTS	N	LITHONIA	EU2 LED M12	14" x 3.5" x 3.5"			120v/60/1	1.8				
4	1	ELEC. W/H	N	AO SMITH	DEL-50	6" x 9.5" x 2.8"			120v/60/1	4500				
5	2	EXIT LIGHTS	N	LITHONIA	LRP EL N	13" x 4" x 3"			120v/60/1	2.3				
6	4	4X4 TROFFER LIGHTS	N	LITHONIA	TWP LED ALO 50K	16" X 15" X 8"			120v/60/1	11				



4 SERVICE GROUND



3 SINGLE LINE

ELECTRICAL LEGEND			
CR	NEW CONTROLLED RECEPTACLES	OS	NEW OCCUPANCY SENSOR
PC	NEW PHOTOCELL		EMERGENCY LIGHTS
OC	NEW OCCUPANCY SENSOR	AS	ASTRONOMICAL CLOCK
44" AFF GFI	NEW RECEPTACLE - WITH GROUND FAULT INTERRUPTER @ +12" - U.N.O. 120 VOLT		LIGHT - WALL MOUNTED 27W
	200AMP ELECTRICAL PANEL	WP GFI	RECEPTACLE - WATER PROOF W/ GROUND FAULT INTERRUPTER @ +12" - U.N.O.
	EXISTING RECEPTACLE - @ +12" - U.N.O. 120 VOLT TAMPER - RSISTANT	T	THERMOSTAT - @ +60"
	NEW TELEPHONE/DATA OUTLET WITH UBS PORT	$	SWITCH - SINGLE POLE @ +42" - (U.N.O.)
	NEW LED HIGH BAY	$D	DIMMER SWITCH - SINGLE POLE @ +42" (U.N.O.) RMJSBOTVB Lutron Wireless Dimmer
A B	NEW 2'x4' FLUORESCENT T5 ELEC 50W, 25W	DP	DOUBLE POLE SWITCH - THREE WAY @ +42" - U.N.O.
		LED	LIGHT - FLUSH MOUNTED IN CEILING (ROUND FIXTURE)
	NEW EXHAUST FAN		
	NEW ILLUMINATED EXIT SIGN		

NOTE :
Egress (emergency back-up) lighting is required for exterior landings of required exit doors/exterior stairways located at other than the level of exit discharge.

NOTE:
EXIT SIGNS / EMERGENCY LIGHTING UL 924
EXIT SIGNS / EMERGENCY LIGHTING TO PROVIDE 5 FOOT CANDLES (54 LUX) ILLUMINATION PER 1011.5.2 CBC
EXIT SIGNS / EMERGENCY LIGHTING SECONDARY POWER SOURCE FROM STORED BATTERIES TO PROVIDE MINIMUM OF 90 MINUTES ILLUMINATION PER 1006.3 CBC

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LIC. # 581636 OFFICE: 760-567-2347 FAX: 760-779-9525

CONSULTANTS . . . . . .

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#Structural Engineering

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CIVIL:

GENERAL CONTRACTOR . . . . . .

Parra Construction

OWNER . . . . . .
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Morgan Hill, 95037
760-567-2347
APN # 603-310-005
LEGAL ADDRESS :
POR SEC 32 T5S R8E

MARK	DATE	DESCRIPTION
1	05/10/24	

SCALE: 3/16" = 1'-0"

PROJECT NO: 03282024
MODEL FILE: VMP Event Center. 04.11.24 V27.pln
DRAWN BY: Bob Sipovac
CHK'D BY: #Contact Full Name

SHEET TITLE

Electrical Plan

Thursday, August 22, 2024

E-2

SHEET 20 OF 25

STATE OF CALIFORNIA
Electrical Power Distribution CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-ELC-E
Project Name: VMP Event Center	**Report Page:**	**(Page 3 of 4)**
	Date Prepared:	2024-06-04T13:29:57-04:00

K. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

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

Form/Title
NRCI-ELC-E - Must be submitted for all buildings

L. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

There are no forms required for this project.

STATE OF CALIFORNIA
Electrical Power Distribution CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-ELC-E
Project Name: VMP Event Center	**Report Page:**	**(Page 2 of 4)**
	Date Prepared:	2024-06-04T13:29:57-04:00

C. COMPLIANCE RESULTS

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

01		02		03		04	05	06
Service Electrical Metering 130.5(a)/ 160.6(a) (See Table F)	AND	Separation for Monitoring 130.5(b)/ 160.6(b) (See Table G)	AND	Voltage Drop 130.5(c)/ 160.6(c) (See Table H)	AND	Controlled Receptacles 130.5(d)/ 160.6(d) (See Table I)	Electric Ready 160.9 (See Table J)	**Compliance Results**
	AND		AND	Yes	AND			COMPLIES

D. EXCEPTIONAL CONDITIONS

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

E. ADDITIONAL REMARKS

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

H. VOLTAGE DROP

This table includes entirely new or complete replacement electrical power distribution systems, or alterations that add, modify or replace both feeders and branch circuits to demonstrate compliance with 130.5(c)/ 160.6(c). For alterations, only the altered circuits must demonstrate compliance per 141.0(b)2Pii/ 180.2(b)4Bviic.

01	02				03	04	05	
Electrical Service Designation/Description	Combined Voltage Drop on Installed Feeder/Branch Circuit Conductors Compliance Method				Location of Voltage Drop Calculations[1]	Sheet Number for Voltage Drop Calculations in Construction Documents	Field Inspector	
							Pass	Fail
new 400 amp service in new space	☒	Voltage drop less than 5%	☐	Permitted by CA Elec Code (Exception to 130.5(c))*	Contractor Responsible		☐	☐

** NOTES: If "Permitted by CA Elec Code *" is selected under Compliance Method above, please indicate where the exception applies in the space provided below.*

[1] FOOTNOTES: Voltage drop calculations may be attached to the permit application outside the construction documents if allowed by the Authority Having Jurisdiction. Select "attached" if applicable. If calculations will be the responsibility of the installing contractor, select "Contractor Responsible".

Electrical Power Distribution Mandatory Measures:

110.12(a) DEMAND RESPONSIVE (DR) CONTROLS
ALL DEMAND RESPONSIVE CONTROLS SHALL:

1. BE EITHER A. CERTIFIED OPENADR 2.0a OR OPENADR 2.0b VIRTUAL END NODE (VEN); OR B. CERTIFIED BY THE MANUFACTURER AS BEING CAPABLE OF RESPONDING TO A DR SIGNAL FROM A CERTIFIED OPENADR 2.0b VEN AUTOMATICALLY IMPLEMENTING THE CONTROL FUNCTIONS REQUESTED BY THE VEN FOR THE EQUIPMENT IT CONTROLS.
2. BE CAPABLE OF COMMUNICATING USING ONE OR MORE OF THE FOLLOWING: WI-FI, ZIGBEE, BACNET, ETHERNET, OR HARD-WIRING.
3. CONTINUE TO PERFORM ALL OTHER CONTROL FUNCTIONS PROVIDED BY THE CONTROL WHEN COMMUNICATIONS ARE DISABLED OR UNAVAILABLE.
4. DR CONTROL THERMOSTATS SHALL COMPLY WITH REFERENCE JOINT APPENDIX 5 (JA5), TECHNICAL SPECIFICATIONS FOR OCCUPANT CONTROLLED SMART THERMOSTATS.

110.12(d) DEMAND RESPONSIVE ELECTRONIC MESSAGE CENTER CONTROL
CONTROLS FOR ELECTRONIC MESSAGE CENTERS GREATER THAN 15KW SHALL BE CAPABLE OF REDUCING THE LIGHTING POWER BY A MINIMUM OF 30% WHEN RECEIVING A DR SIGNAL.

130.5(c) VOLTAGE DROP
THE MAXIMUM COMBINED VOLTAGE DROP ON BOTH INSTALLED FEEDER AND BRANCH CIRCUIT CONDUCTORS TO THE FARTHEST CONNECTED LOAD OR OUTLET SHALL NOT EXCEED 5%.

STATE OF CALIFORNIA
Electrical Power Distribution CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-ELC-E
This document is used to demonstrate compliance with mandatory requirements in 130.5, for electrical systems in newly constructed nonresidential and hotel/motel occupancies and 160.6 and 160.9 for electrical systems in newly constructed multifamily occupancies. Additions and alterations to electrical service systems in nonresidential and hotel/motel occupancies will also use this document to demonstrate compliance per 141.0(a) or 141.0(b)2P for alterations. For multifamily addition or alterations compliance will be documented per 180.1(a) or 180.2 (b)4Bvii		
Project Name: VMP Event Center	**Report Page:**	**(Page 1 of 4)**
Project Address:	**Date Prepared:**	2024-06-04T13:29:57-04:00

A. GENERAL INFORMATION

01	Project Location (city)	Coachella	02	Climate Zone	15
			03	Occupancy Types Within Project:	All Other Occupancies

B. PROJECT SCOPE

This table includes electrical systems that are within the scope of the permit application.

01	02	03	04	05	06	07
Electrical Service Designation/ Description	Scope of Work[1]	Rating[2] (kVA)	Utility Provided Metering System Exception to 130.5(a)/ 160.6(a)[3]	System subject to CA Elec Code Article 517 Exception to 130.5(a)and (b)	Demand Response Controls	Provides power to dwelling units/common living areas only in multifamily occupancy
new 400 amp service in new space	Add/Alt to feeders and branch circuits only	---	☐	☐	Where required, demand response controls must be specified which are capable of receiving and automatically responding to at least one standards based messaging protocol which enables demand response after receiving a demand response signal. Sections 120.2/ 160.3, 130.1/ 160.5, and 130.3/ 160.5, and mechanical, indoor lighting, and sign lighting Certificate of Compliance documents will indicate when demand response controls are required.	☐

[1] FOOTNOTES: Adding only new feeders and branch circuits triggers Voltage Drop 130.5(c)/160.6(c), no other requirements from 130.5/160.6 are required.
[2] If common use areas in a multifamily are submetered, rating is for submeter size serving common use areas.
[3] Applicable if the utility company is providing a metering system that indicates instantaneous kW demand and kWh for a utility-defined period.

STATE OF CALIFORNIA
Electrical Power Distribution CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-ELC-E
Project Name: VMP Event Center	**Report Page:**	**(Page 4 of 4)**
Project Address:	**Date Prepared:**	2024-06-04T13:29:57-04:00

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: Bob Sipovac	Documentation Author Signature: Bob Sipovac
Company: Sipovac construction inc	Signature Date:
Address:	CEA/ HERS Certification Identification (if applicable):
City/State/Zip:	Phone:

RESPONSIBLE PERSON'S DECLARATION STATEMENT

I certify the following under penalty of perjury, under the laws of the State of California:

1. The information provided on this Certificate of Compliance is true and correct.
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer)
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provided to the building owner at occupancy.

Responsible Designer Name:	Responsible Designer Signature: Bob Sipovac
Company:	Date Signed:
Address:	License:
City/State/Zip:	Phone:

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Parra Construction

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760-567-2347
APN # 603-310-005
LEGAL ADDRESS :
POR SEC 32 T5S R8E

MARK	DATE	DESCRIPTION

SCALE:

PROJECT NO: 03282024
MODEL FILE: VMP Event Center. 04.11.24 V27.pln
DRAWN BY: Bob Sipovac
CHK'D BY: #Contact Full Name

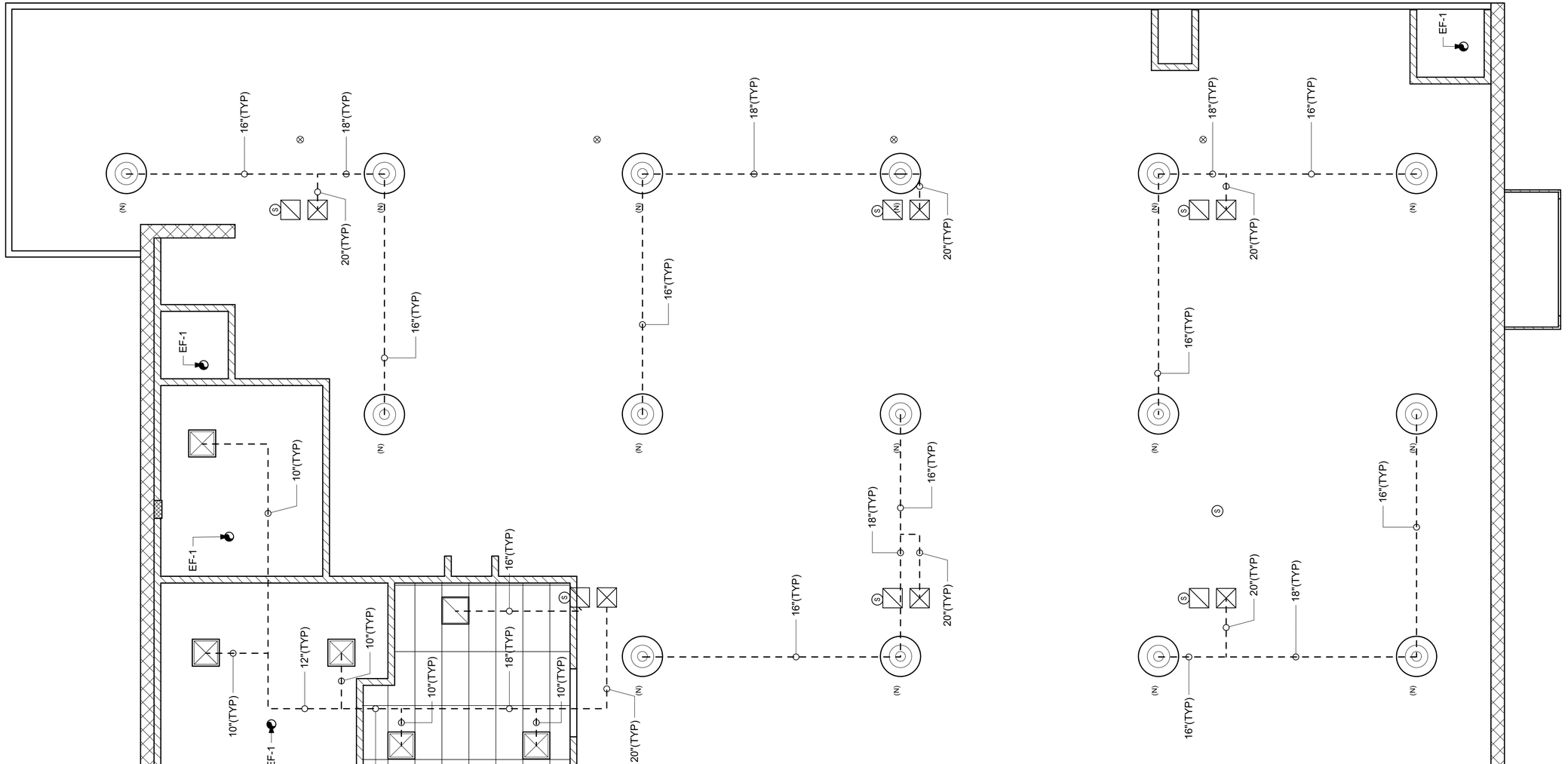
SHEET TITLE

Title 24

Thursday, August 22, 2024

E-3

SHEET **21** OF **25**



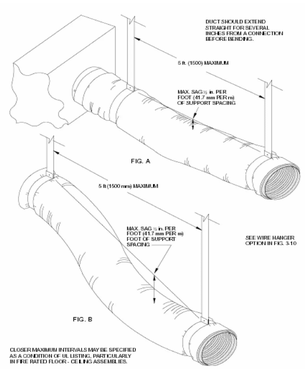


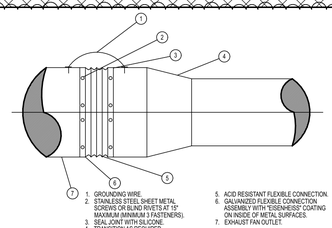
FIGURE 3-9 FLEXIBLE DUCT SUPPORTS

Table 120.1.A.-Minimum Ventalation Rates, Occupancy Category, Disco/Dance Floor. 20 Cubic Feet per minute (CFM) per person, with an outdoor air rate of 0.06 cfm per square foot

Occupancy 274 x 20cfm = 5480 cfm ventalation rate
8400 cfm provided

MECHANICAL LEGEND

	SUPPLY REGISTER	MF	SUPPLY REGISTER
	RECTANGULAR SUPPLY REGISTER SEE PLAN FOR SIZE		EXHAUST FAN WITH LIGHT 27W
	RECTANGULAR RETURN REGISTER SEE PLAN FOR SIZE	WP GFI	RECEPTACLE - WATER PROOF W/ GROUND FAULT INTERRUPTER @ +12" - U.N.O.
	ROUND HARD DUCY SEE PLAN FOR SIZE		SURFACE CONNECTION BOX
	ROUND RETURN REGISTER SEE PLAN FOR SIZE	S	SMOKE DETECTOR
	PRIMARY AND SECONDARY CONDENSATE DRAIN LINES		



EXHAUST VENT CONNECTION

ROUND DUCT HANGER STRAP SIZES:

Duct Diameter	Strap Hangers	Max. Spacing
up to 26"	one 1"x22 Ga.	12Ft.
27"-36"	one 1"x18 Ga.	12Ft.
37"-50"	one 1"x16 Ga.	12Ft.
51"-60"	two 1"x18 Ga.	12Ft.

ROUND DUCT SIZE ESTIMATE

Flexible Duct		Round Metal Pipe	
Duct Size	Design Airflow	Duct Size	Design Airflow
5"	50	5"	50
6"	75	6"	85
7"	110	7"	125
8"	160	8"	180
9"	225	9"	240
10"	300	10"	325
12"	480	12"	525
14"	700	14"	750
16"	1000	16"	1200
18"	1300	18"	1500
20"	1700	20"	2000

MECHANICAL EQUIPMENT

	HVAC 1(New)	HVAC 2(New)
MANUFACTURER	CARRIER	CARRIER
MODEL #	50HCQA04	50HCQA06
MCA 208V/230V/3PH/60HZ	50.0	60.0
SEER	13.4	13.4
E.E.R	11	11
CFM	900	1500
N.C.C	3.0 Tons	5.0 Tons
WEIGHT	400 lbs.	610 lbs.
H x W x D	59" x 89"x 50"	59" x 89"x 50"
FUSE	50	60
THERMOSTAT	SETBACK PROGRAMMABLE	
OA VENTILATION	YES	YES
POWER EXHAUST ECONOMISER and c02 SENSR		
FILTER	MERV 13	
QTY	1	5

NOTES

1. All duct openings and other air distribution component openings shall be protected during storage on the construction site until final start-up with tape, sheet metal, or other acceptable methods to reduce the amount of dust and debris, which may collect in the systems CGBC 5.504.3
2. HVAC, refrigeration equipment shall not contain CFC'S per CGBC 5.508
3. All ducts will have R-8 duct insulation

LOCAL VENTILATION RATE SUMMARY
BATHROOM FAN FLOW (EF-1) = 80 CFM
NUMBER OF NEW BATHROOMS = 2
DUCT SIZE = 4 INCHES
MAXIMUM ALLOWABLE
DUCT LENGHT = 70 FT

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APN # 603-310-005
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POR SEC 32 T5S R8E

MARK	DATE	DESCRIPTION
1	05/10/24	

SCALE: 1/4" = 1'-0"
PROJECT NO: 03282024
MODEL FILE: VMP Event Center. 04.11.24 V27.pln
DRAWN BY: Bob Sipovac
CHK'D BY: #Contact Full Name
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SHEET TITLE
Mech Plan

Thursday, August 22, 2024

M-1

SHEET 22 OF 25

PLUMBING SPECIFICATIONS:

FURNISH LABOR, MATERIALS TO COMPLETE WORK SPECIFIED OR INDICATED ON PLANS, INCLUDING BUT NOT LIMITED TO THE FOLLOWING: DRAINAGE, SEWER WASTE, VENT SYSTEMS, COLD WATER SYSTEM, HOT WATER SYSTEM, PLUMBING FIXTURES, AND WATER SERVICE, MATERIALS, METHODS AND DETAILS OF PLUMBING WORK SHALL CONFORM TO "UNIFORM PLUMBING CODE" AND APPLICABLE STATE AND LOCAL CODES (LATEST EDITION).

PIPE, PIPING INSTALLATION:

A. METAL PIPE SHALL BE STRAIGHT, FREE FROM DENTS, SCARS, BURNS, AND DISTORTIONS, END REAMED OUT SMOOTH.
B. PROVIDE PROPER ALLOWANCES FOR EXPANSION AND CONTRACTION.
C. CLEAN PIPING WHEN INSTALLED, KEEP CLEAN.
D. PITCH AND GRADE: 1. SOIL, WASTE DRAINAGE, UNIFORM 1/4" PER FOOT EXCEPT WHERE SHOWN OTHERWISE. 2. HOT AND COLD WATER; LEVEL OR SLIGHTLY PITCHED TOWARD DRAIN POINTS.

UNIONS:

A. PROVIDE AT ALL VALVES AND EQUIPMENT WHEREVER NECESSARY TO ALLOW REPAIRS OR REPLACEMENT.
B. PROVIDE UNION SAME AS THE PIPING IN WHICH THEY ARE BEING INSTALLED.
C. UNIONS FOR STEEL PIPING 2" AND SMALLER, 150 PSI MALLEABLE IRON GROUND JOINT, BRASS TO IRON SEAT.
D. UNIONS FOR COPPER PIPING 2" AND SMALLER SHALL BE COPPER TO COPPER TYPE.
E. INSTALL DIELECTRIC UNIONS WHERE PIPING OF DISSIMILAR MATERIALS ARE JOINED.

PIPE AND FITTINGS:

A. SCHEDULE 40, PVC PIPE SHALL BE ACCEPTABLE IN LIEU OF CAST IRON FOR DRAIN, WASTE AND VENT PIPING WHERE APPROVED BY THE LOCAL GOVERNING CODES AND ORDINANCES.
B. IN LOCATIONS WHERE PVC IS NOT APPROVED FOR USE, PIPING SHALL BE SERVICE WEIGHT CAST IRON FOR SIZED LARGER THAN 1-1/2", OR GALVANIZED SCHEDULE 40 STEEL PIPE WITH MALLEABLE IRON SCREWED VENT FITTINGS FOR SIZES 1-1/2" AND SMALLER.
C. FITTING TO BE SUITABLE FOR TYPE OF PIPE USED.
D. ALL DOMESTIC HOT, COLD WATER LINES ABOVE THE BUILDING SLAB TO BE TYPE "L" HARD COPPER IS INSTALLED, JOINTS BETWEEN PIPE AND FITTINGS SHALL BE BRAZED. NO JOINTS WILL BE PERMITTED IN SOFT COPPER UNDER THE SLAB.
E. ALL CHANGES IN PIPE SIZES IN SOIL PIPE SHALL BE MADE WITH REDUCED FITTINGS. WYE FITTINGS WITH 1/8" OR 1/16" BEND OR COMBINATION WYE AND 1/8" BEND FITTINGS SHALL BE USED WHERE CHANGES IN DIRECTION OCCUR. SANITARY LONG SWEEP BENDS OR TEES MAY BE USED FOR CONNECTIONS TO BRANCH LINES, TO FIXTURES, AND TO ALL VERTICAL RUNS OF PIPE. INSTALL IN ACCORDANCE WITH UPC APPENDIX "D".
F. SLOPE ALL SEWER PIPING 3" AND SMALLER AT 2% PER FOOT AND 4" AND LARGER AT 1% PER FOOT.
ROOF DRAIN PIPING WHERE SHOWN ON DRAWINGS, SHALL BE SAME AS SPECIFIED FOR WASTE PIPING.

VALVES:

A. VALVES SHALL HAVE TEST RATING OF NOT LESS THAT 125 PSI.
B. VALVE MATERIAL: BRONZE MATERIAL FOR SIZE 2" AND SMALLER, IRON BODY BRONZE MOUNTED FOR 2-1/2" AND LARGER.
C. VALVE ENDS FOR THREADED PIPE: SCREWED FOR SIZE 2-1/2" AND SMALLER.
D. VALVE ENDS FOR COPPER WATER TUBE TYPE "L"; SOLDER-JOINT TYPE.
E. GATE VALVES SHALL HAVE SOLID TAPERED WEDGE.
F. GLOBE VALVES SHALL BE SCREWED BRONZE.
G. CHECK VALVES, SWING TYPE, SCREWED, BRONZE BODY, COMPOSITION DISC.
H. CHECK VALVES, SWING TYPE FLANGED, IRON BODY BRASS MOUNTED, BRONZE SEAT, COMPOSITION DISC.
I. ALL VALVES TO BE BALL VALVES WHERE POSSIBLE.

CLEANOUTS:

A. FULL SIZE CLEANOUTS SHALL BE INSTALLED AT THE BASE OF EACH WASTE OR SOIL STACK, AND AT THE END OF EACH HORIZONTAL RUN OF PIPE. THE DISTANCE BETWEEN CLEANOUTS IN HORIZONTAL RUNS OF PIPING SHALL NOT EXCEED 50'-0".
B. ALL CLEANOUTS SHALL BE INSTALLED IN LOCATIONS EASILY ACCESSIBLE FOR RODDING (IN UNFURNISHED AREAS WHEREVER POSSIBLE) WHERE STACKS OR OTHER PIPING ARE CONCEALED, CLEANOUTS SHALL BE INSTALLED FLUSH WITH FLOOR AND PROVIDED WITH FLANGED CLEANOUT COVER. PROVIDE ACCESS PANELS AS REQUIRED.

ROOF FLASHING:

A. VENTS THROUGH ROOF TERMINATE 12" ABOVE THE ROOF OR FIREWALL.
B. FLASH WITH LONG BOOT LEAD FLASHING AROUND PIPE.
C. THE BASE OF THE FLASHING SHALL BE MINIMUM 12" X 12" ON THE ROOF.

SANITARY SYSTEM:

A. CONTRACTOR TO VERIFY ELEVATIONS OF SEWER MAINS BEFORE STARTING WORK. LAY PIPING TRUE TO LINE AND GRADE UNIFORMLY UNLESS OTHERWISE INDICATED OR DIRECTED, MAINTAIN 36" MINIMUM COVER ABOVE PIPING OUTSIDE BUILDINGS.

WATER SUPPLY SYSTEMS:

A. BUILDING PIPING: PROVIDE A COMPLETE PIPING SYSTEM AS SHOWN ON PLANS INCLUDING SHUT-OFF AND DRAIN VALVE ON SERVICE TO ALL FIXTURES AND EQUIPMENT OUTLETS REQUIRING A COLD AND/OR HOT WATER SUPPLY. ALL BRANCH MAINS AND CONNECTIONS TO RISERS SHALL BE VALVED AND DRIP COCKS PROVIDED SO THAT THE ENTIRE SYSTEM MAY BE DRAINED. FIXTURE STOPS SHALL BE INSTALLED ON ALL FIXTURE CONNECTIONS.

TESTS FOR PLUMBING AND DRAINAGE SYSTEMS:

A. ALL HOT AND COLD WATER LINES SHALL BE CAPPED OR PLUGGED AND TESTED WITH 125 LBS. HYDROSTATIC TEST AND PROVEN TIGHT BEFORE ANY PIPING IS COVERED OR CONCEALED IN ANY PART OF THE BUILDING.
B. ALL WASTE AND VENT PIPING SHALL BE TESTED WITH WATER OR AIR FREEZE-PROOF AS REQUIRED BY THE UNIFORM PLUMBING CODE.
C. GAS PIPING, IF ANY, SHALL BE TESTED AS REQUIRED BY LOCAL OR STATE GAS CODE.
D. BEFORE FINAL ACCEPTANCE OF THE SYSTEM AS A WHOLE, THIS CONTRACTOR SHALL MAKE ALL ADJUSTMENTS AS REQUIRED AND PLACE THE ENTIRE PLUMBING SYSTEM IN SATISFACTORY OPERATING CONDITION.

PLUMBING EQUIPMENT:

A. SILLCOCK: NIBCO FIG. NO. 62-6S, WITH ANTI-SIPHON PROTECTION.
B. HOSE BIBBS: THREADED END, 3/4" SIZE, ADJUSTABLE FLANGE, INDEXED FOUR ARM HANDLE, BRASS, AMERICAN STANDARD OR EQUAL, WHERE NECESSARY.
C. STOP VALVES: ALL FIXTURES, SILLCOCKS, YARD HYDRANTS, HOSE BIBBS, ROUGH-INS, ETC. TO BE SUPPLIED WITH STOP VALVES TO PREVENT SHUTTING DOWN ENTIRE WATER SYSTEM WHEN REPLACING FAUCET WASHERS.
D. VACUUM BREAKERS: PROVIDE LINE SIZE VACUUM BREAKER ON ALL BRANCH LINES TO ALL OUTLETS WITH THREADED OUTLETS WHERE A GARDEN HOSE MAY BE ATTACHED AND WHERE INDICATED IN THE PLANS.

FIXTURES:

A. FURNISH AND INSTALL PLUMBING FIXTURES, TYPE "A" QUALITY SPECIFIED IN THE FIXTURE LIST.
B. THE CONTRACTOR IS RESPONSIBLE FOR PROTECTION OF FIXTURES UNTIL FINAL ACCEPTANCE OF THE BUILDING BY OWNER. ANY DAMAGED FIXTURE SHALL BE IMMEDIATELY REPLACED BY THIS CONTRACTOR REGARDLESS OF WHO CAUSED THE DAMAGE.
C. ALL EXPOSED METAL PARTS REQUIRED FOR FIXTURE INSTALLATION SHALL BE CHROMIUM PLATED UNLESS A DIFFERENT PLATING OR FINISH IS SPECIFIED. THIS INCLUDES FIXTURE CONNECTIONS, FIXTURE STOPS, TRAPS DRAIN STRAINERS, ETC.
D. PROVIDE LOW-FLOW PLUMBING FIXTURE DEVICES FOR: WATERCLOSETS 1.6 GPF, URINALS 1.5 GPF, LAVATORIES 2.75 GPM, SINKS 2.75 GPM, AND SHOWERS 3.0 GPM.
E. BACKFLOW PREVENTER: PROVIDE WATTS SERIES 7 OR #9BD. DOUBLE CHECK VALVE TYPE (VERIFY WITH LOCAL CODES) AT ALL CONNECTIONS TO EQUIPMENT (ICE MAKERS, VENDING MACHINES, COFFEE MAKERS, ETC.)

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MARK	DATE	DESCRIPTION
1	05/10/24	

SCALE:

PROJECT NO: 03282024
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DRAWN BY: Bob Sipovac
CHK'D BY: #Contact Full Name

SHEET TITLE

General Notes

Thursday, August 22, 2024

P-1

SHEET 23 OF 25

FUEL GAS 1308.5.1 Materials
Pipe, fittings, valves, or other materials shall not be used again unless they are free of foreign materials and have been ascertained to be approved for the service intended. [NFPA 54:5.6.1.2]

FUEL GAS 1308.5.1.1 Other Materials
Material not covered by the standards specifications listed herein shall be investigated and tested to determine that it is safe and approved for the proposed service and, in addition, shall be recommended for that service by the manufacturer and shall be acceptable to the Authority Having Jurisdiction. [NFPA 54:5.6.1.3]

308.5.2 Metallic Pipe
Cast-iron pipe shall not be used. [NFPA 54:5.6.2.1]

1308.5.2.1 Steel and Wrought-Iron
Steel and wrought-iron pipe shall be not less than standard weight (Schedule 40) and shall comply with one of the following standards:
1. ASME B36.10
2. ASTM A53
3. ASTM A106 [NFPA 54:5.6.2.2]

1308.5.2.2 Copper and Copper Alloy
Copper and copper alloy pipe shall not be used where the gas contains more than an average of 0.3 grains of hydrogen sulfide per 100 standard cubic feet (scf) of gas (0.7 mg/100 L).

Threaded copper, copper alloy, or aluminum alloy pipe shall not be used with gases corrosive to such material.

1308.5.2.3 Aluminum Alloy
Aluminum alloy pipe shall comply with ASTM B241 (except that the use of alloy 5456 is prohibited) and shall be marked at each end of each length indicating compliance. Aluminum alloy pipe shall be coated to protect against external corrosion where it is in contact with masonry, plaster, insulation, or is subject to repeated wettings by such liquids as water, detergents, or sewage. [NFPA 54:5.6.2.5]

Aluminum alloy pipe shall not be used in exterior locations or underground. [NFPA 54:5.6.2.6]

1308.5.3 Metallic Tubing
Seamless copper, aluminum alloy, or steel tubing shall not be used with gases corrosive to such material. [NFPA 54:5.6.3]

1308.5.3.1 Steel
Steel tubing shall comply with ASTM A254. [NFPA 54:5.6.3.1]

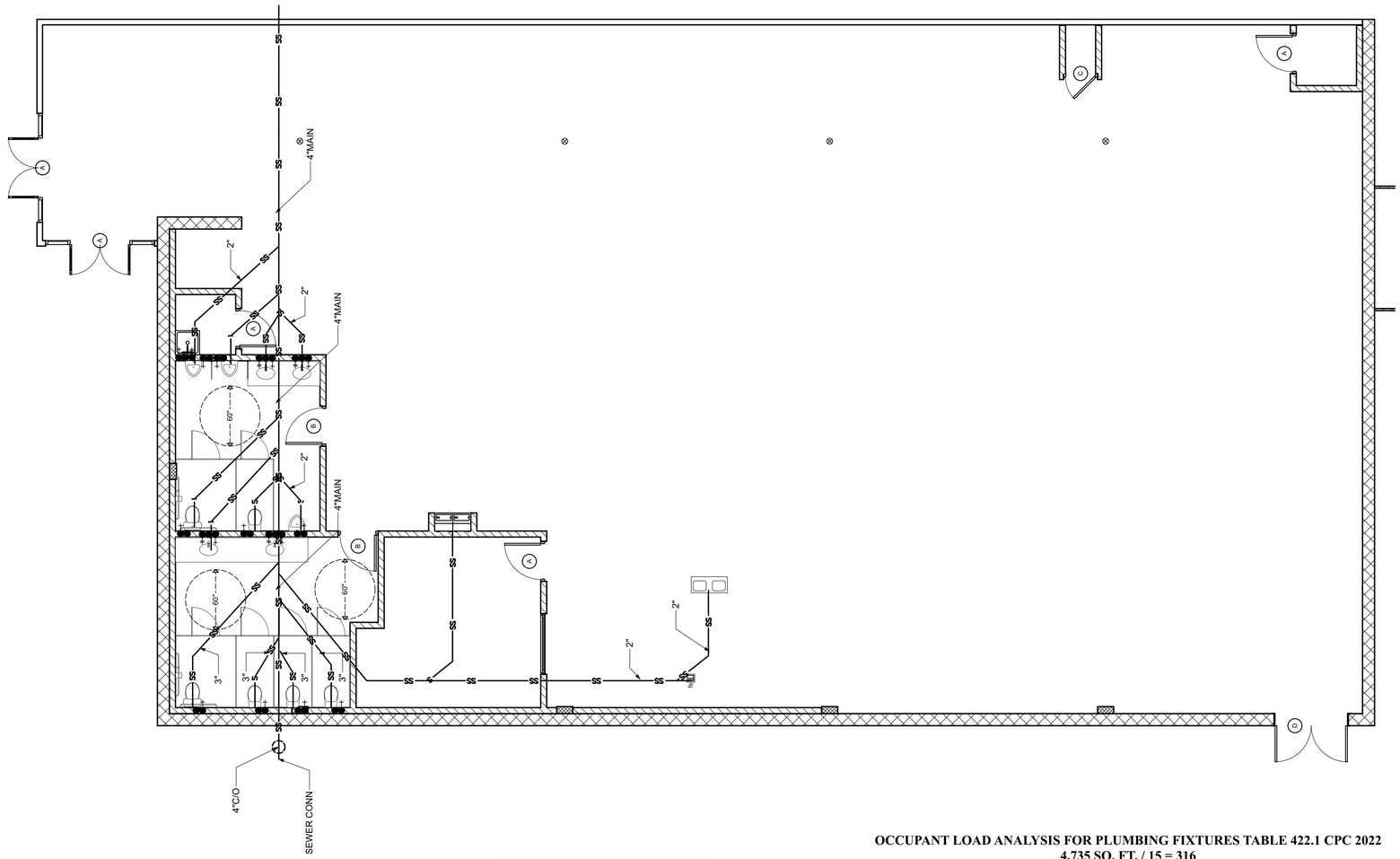
1308.5.3.2 Copper and Copper Alloy
Copper and copper alloy tubing shall not be used where the gas contains more than an average of 0.3 grains of hydrogen sulfide per 100 scf of gas (0.7 mg/100 L). Copper tubing shall comply with standard Type K or L of ASTM B88 or ASTM B280.

1308.5.3.3 Aluminum Alloy
Aluminum alloy tubing shall comply with ASTM B210 or ASTM B241. Aluminum alloy tubing shall be coated to protect against external corrosion where it is in contact with masonry, plaster, insulation, or is subject to repeated wettings by such liquids as water, detergent, or sewage. Aluminum alloy tubing shall not be used in exterior locations or underground. [NFPA 54:5.6.3.3]

1308.5.3.4 Corrugated Stainless Steel
Corrugated stainless steel tubing shall be listed in accordance with CSA LC-1. [NFPA 54:5.6.3.4]

1308.5.4 Plastic Pipe, Tubing, and Fittings
Polyethylene plastic pipe, tubing, and fittings used to supply fuel gas shall be in accordance with ASTM D2513. Pipe to be used shall be marked "gas" and "ASTM D2513." [NFPA 54:5.6.4.1.1]

1308.5.4.1 Regulator Vent Piping
Plastic pipe and fittings used to connect regulator vents to remote vent terminations shall be PVC in accordance with UL 651. PVC vent piping shall not be installed indoors. [NFPA 54:5.6.4.2]



PLUMBING SCOPE OF WORK
1. 2 RESTROOMS,
1. MOP SINK
1. WATER FOUNTAIN
1. FLOOR SINK

OCCUPANT LOAD ANALYSIS FOR PLUMBING FIXTURES TABLE 422.1 CPC 2022
4,735 SQ. FT. / 15 = 316
158 MALE, 158 FEMALE
MALE: 3 TOILETS, 3 LAVATORY 2
URINALS 2
FEMALE: 4 TOILETS, 2 LAVATORY

Notes
1. To maintain slope of horizontal drainage piping, double combination fitting is not permitted to install in horizontal position. As an alternative, two combination wye & 1/8 bend fittings may be used.
3. Water closet bowls for public use shall be of the elongated type.
5. New or repaired potable water systems shall be disinfected prior to use according to the method set in Section 609.9 of the Plumbing Code
6. All plumbing fixtures and fixture fittings shall meet the standards referenced in Table 5.503.6
7. Any water system provided with a check valve or a back flow prevention device shall be provided with an approved, listed, adequately sized pressure expansion tank or other device for intermittent operation for thermal expansion control.
8. All public restrooms hot water supply is provided with water tempering device that conforms to ASSE 1070 to limit water temperature to 110 F.
9. Any fixtures installed on a floor level located below level of next upstream sewer manhole cover elevation shall be protected by a backwater valve per CPC Section 710.1
11. Each vent pipe or stack shall terminate vertically not less than 6 inches above the roof nor less than 1 foot from any vertical surface.(CPC906.1)
12. Each vent shall terminate not less than 10 feet from, or not less than 3 feet above, any openable window/skylight, door, opening, air intake, or not less than 3 feet in every direction from any lot line. (CPC906.2)
13. Hot water piping is required to be insulated as follow: 1" pipe size or less: 1" thick insulation, larger pipe size require 1 1/2" thick insulation. Table 120.3-A. ES120.3
14. Maximum flush volumes and flow rates: Water closet - 1.28 gallons per flush (blowout type exempt) ; Faucets - 0.5 gallons per minute (sink and lavs) CPC section 403.0

MAXIMUM FIXTURE FLOW RATES

FIXTURE TYPE	MAXIMUM FLOW RATE
Water closets	1.28 gallons/flush
Urinals (wall mounted)	0.125 gallons/flush
Urinals (floor mounted)	0.5 gallons/flush
Showerheads	1.8 gpm @ 80 psi
Lavatory faucets-nonresidential	0.5 gpm @60 psi
Kitchen faucets	1.8 gpm @ 60 psi
Metering faucets	0.2 gallons/cycle

TABLE 701.2
MATERIALS FOR DRAIN, WASTE, VENT PIPE AND FITTINGS

MATERIAL	UNDERGROUND DRAIN, WASTE, VENT PIPE AND FITTINGS	ABOVEGROUND DRAIN, WASTE, VENT PIPE AND FITTINGS	BUILDING SEWER PIPE AND FITTINGS	REFERENCED STANDARD(S) PIPE	REFERENCED STANDARD(S) FITTINGS
ABS (Schedule 40)	X	X	X	ASTM D2661, ASTM D2680*	ASTM D2661, ASTM D2680*
Cast-Iron	X	X	X	ASTM A74, ASTM A888, CISPI 301	ASME B16.12, ASTM A74, ASTM A888, CISPI 301
Co-Extruded ABS (Schedule 40)	X	X	X	ASTM F628	ASTM D2661, ASTM D2680*
Co-Extruded Composite (Schedule 40)	X	X	X	ASTM F1488	ASTM D2661, ASTM D2665, ASTM F794*, ASTM F1866
Co-Extruded PVC (Schedule 40)	X	X	X	ASTM F891, ASTM F1760	ASTM D2665, ASTM F794*, ASTM F1336*, ASTM F1866
Copper and Copper Alloys (Type DWV)	X	X	X	ASTM B43, ASTM B75, ASTM B251, ASTM B302, ASTM B306	ASME B16.23, ASME B16.29
Galvanized Malleable Iron	—	X	—	—	ASME B16.3
Galvanized Steel	—	X	—	ASTM A53	—
Polyethylene	—	—	X	ASTM F714, ASTM F894	—
PVC (Schedule 40)	X	X	X	ASTM D1785, ASTM D2665, ASTM F794*	ASTM D2665, ASTM F794*, ASTM F1866
PVC (Sewer and Drain)	—	—	X	ASTM D2729	ASTM D2729
PVC PSM	—	—	X	ASTM D3034	ASTM D3034
Stainless Steel 304	—	X	—	ASME A112.3.1	ASME A112.3.1
Stainless Steel 316L	X	X	X	ASME A112.3.1	ASME A112.3.1
Vitrified Clay (Extra strength)	—	—	X	ASTM C700	ASTM C700

* For building sewer applications.

TABLE 604.1
MATERIALS FOR BUILDING SUPPLY AND WATER DISTRIBUTION PIPING AND FITTINGS

MATERIAL	BUILDING SUPPLY PIPE AND FITTINGS	WATER DISTRIBUTION PIPE AND FITTINGS	REFERENCED STANDARD(S) PIPE	REFERENCED STANDARD(S) FITTINGS
Copper and Copper Alloys	X	X	ASTM B42, ASTM B43, ASTM B75, ASTM B88, ASTM B135, ASTM B251, ASTM B302, ASTM B447	ASME B16.15, ASME B16.18, ASME B16.22, ASME B16.26, ASME B16.50[2], ASME B16.51, ASSE 1061
CPVC	X	X	ASSE 1061, ASTM D2846, ASTM F437, ASTM F438, ASTM F439, ASTM F1970, CSA B137.6	ASSE 1061, ASTM D2846, ASTM F437, ASTM F438, ASTM F439, ASTM F1970, CSA B137.6
CPVC-AL-CPVC	X	X	ASTM F2855	ASTM D2846
Ductile-Iron	X	X	AWWA C151	ASME B16.4, AWWA C110, AWWA C153
Galvanized Steel	X	X	ASTM A53	—
Malleable Iron	X	X	—	ASME B16.3
PE	X[5]	—	ASTM D2239, ASTM D2737, ASTM D3035, AWWA C901, CSA B137.1	ASTM D2609, ASTM D2683, ASTM D3261, ASTM F1055, CSA B137.1
PE-AL-PE	X	X	ASTM F1282, CSA B137.9	ASTM F1282, ASTM F1974, CSA B137.9
PE-AL-PEX	X	X	ASTM F1986	ASTM F1986
PE-RT	X	X	ASTM F2769, CSA B137.18	ASTM D3261, ASTM F1055, ASSE 1061, ASTM F1807, ASTM F2098, ASTM F2159, ASTM F2735, ASTM F2769, CSA B137.18
PEX[3,4]	X	X	ASTM F876, ASTM F877, CSA B137.5, AWWA C904[5]	ASSE 1061, ASTM F877, ASTM F1807, ASTM F1960, ASTM F1961, ASTM F2080, ASTM F2159, ASTM F2735, CSA B137.5
PEX-AL-PEX[5]	X	X	ASTM F1281, CSA B137.10, ASTM F2262	ASTM F1281, ASTM F1974, ASTM F2434, CSA B137.10
PP	X	X	ASTM F2389, CSA B137.11	ASTM F2389, CSA B137.11
PVC	X[5]	—	ASTM D1785, ASTM D2241, AWWA C900	ASTM D2464, ASTM D2466, ASTM D2467, ASTM F1970, AWWA C907
Stainless Steel	X	X	ASTM A269, ASTM A312	—

Notes:
[1] For building supply or exterior cold-water applications, not for water distribution piping.
[2] For brazed fittings only.
[3] *When PEX tubing is placed in soil and is used in potable water systems intended to supply drinking water to fixtures or appliances, the tubing or piping shall be sleeved with a material approved for potable water use in soil or other material that is impermeable to solvents or petroleum products.*
[4] *PEX tubing shall meet or exceed the requirements of ASTM F876-20/2a or an equivalent or more stringent standard when used in continuously recirculating hot water systems and the PEX tubing is exposed to the hot water 100% of the time.*
[5] ***(For BSC, DSA-SS, DSA-SS/CC & HCD)*** *The use of PEX-AL-PEX in potable water supply systems is not adopted.*

PLUMBING LEGEND

HOT WATER LINE (STUBOUT)
COLD WATER LINE (STUBOUT)
SEWER LINE
COLD WATER LINE
HOT WATER LINE
WATER HAMMER ARRESTOR

all domestic (i.e. potable) hot water piping will have a minimum insulation for the following pipe sizes: ½" pipe (½" insulation); ¾" pipe (1" insulation); 1"- 1 ½" pipes (1 ½" insulation); 2" pipes are larger (2" insulation). CPC 609.11 & ES 150.0(j)

SIPOVAC CONSTRUCTION INNOVATION
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APN # 603-310-005
LEGAL ADDRESS :
POR SEC 32 T5S R8E

MARK	DATE	DESCRIPTION
1	05/10/24	

SCALE:	3/16" = 1'-0"
PROJECT NO:	03282024
MODEL FILE:	VMP Event Center. 04.11.24 V27.pln
DRAWN BY:	Bob Sipovac
CHK'D BY:	#Contact Full Name

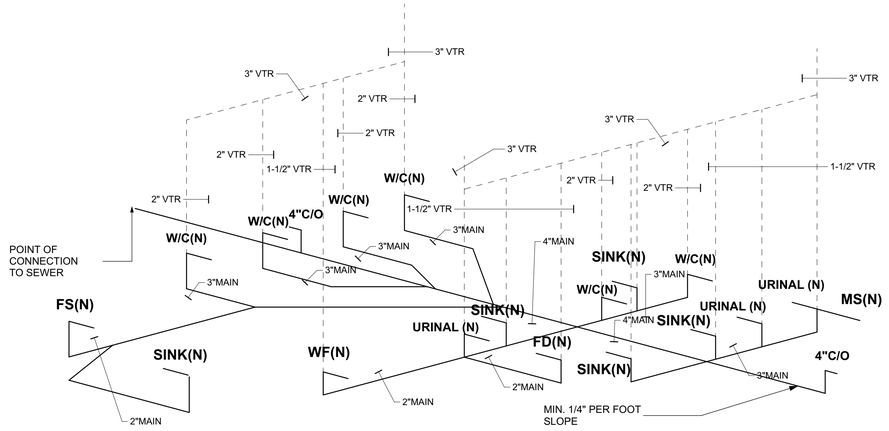
SHEET TITLE

Plumbing Plan

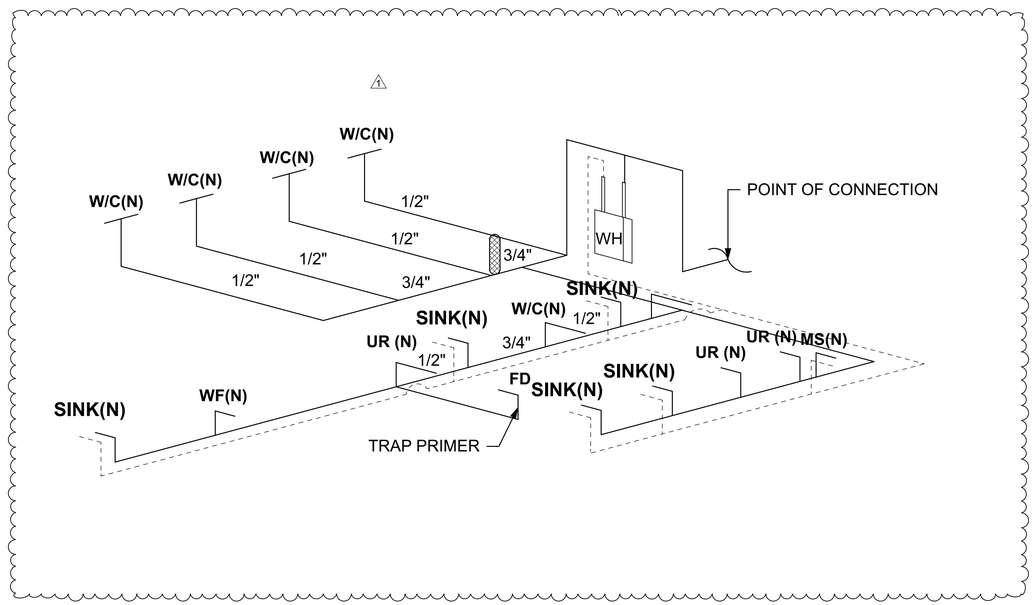
Thursday, August 22, 2024

P-2

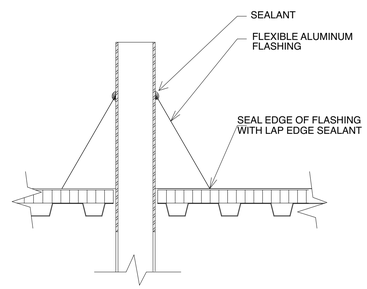
SHEET **24** OF **25**



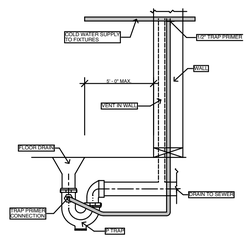
10 | **Waste Iso (2)** | 3/16" = 1'-0"



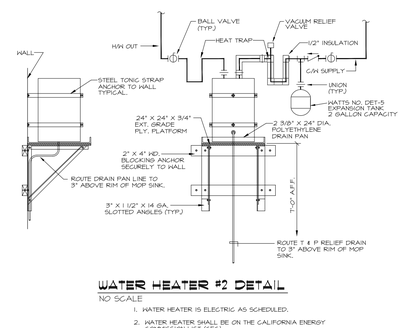
12 | **Water Iso Detail (1)** | 1/4" = 1'-0"



1 | **Vent Stack Detail** | 1/4" = 1'-0"



2 | **Trap Primer Connection** | 1/8" = 1'-0"



WATER HEATER #2 DETAIL

NO SCALE

1. WATER HEATER IS ELECTRIC AS SCHEDULED.
2. WATER HEATER SHALL BE ON THE CALIFORNIA ENERGY COMMISSION LIST (CEC).

4 | **Water heater Detail** | 1:1.43

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APN # 603-310-005
LEGAL ADDRESS :
POR SEC 32 T5S R8E

MARK	DATE	DESCRIPTION
1	05/10/24	

SCALE:

PROJECT NO: 03282024
MODEL FILE: VMP Event Center. 04.11.24 V27.pln
DRAWN BY: #Contact Full Name
CHK'D BY: Bob Sipovac

SHEET TITLE

Pumbing Details & ISO

Thursday, August 22, 2024

P-3

SHEET **25** OF **25**