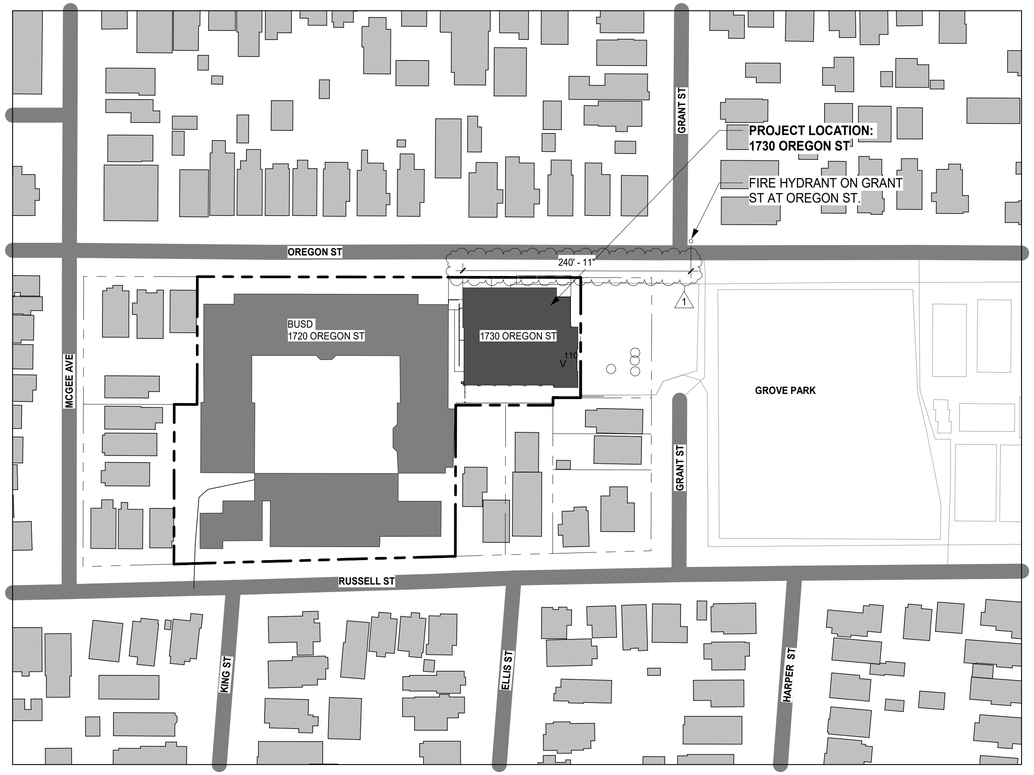
MARTIN LUTHER KING JR. YOUTH SERVICES CENTER / YAP
SEISMIC RETROFIT AND RENOVATION

1730 OREGON STREET, BERKELEY, CA 94703





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SITE INFORMATION / ZONING

EXISTING BUILDING SHARES A LOT WITH A BERKELEY UNIFIED SCHOOL DISTRCT CORPORATION YARD.

PROPERTY ADDRESS: 1730 OREGON STREET, BERKELEY, CA 94703
APN: 053-1676-001-02
ZONING: R-2
GENERAL PLAN AREA: LMDR
LOT SIZE: 103,240 SQFT
 # OF STORIES: 1 STORY
OCCUPANCY: A3
BUILDING TYPE: V-B; SPRINKLERED

	EXISTING	ADDITION	TOTAL
BUILDING AREA TOTAL:	± 55,688 SF	895 SF	± 56,583 SF
BUILDING AREA YAP:	10,655 SF	895 SF	11,550 SF

ZONING REGULATIONS:

	REQUIRED	EXISTING	PROPOSED
FRONT/STREET SETBACK	20' MIN	+/- 12.77'	+/- 12.77
REAR SETBACK	20' MIN	+/- 12.45'	+/- 12.45'
SIDE SETBACK	4' MIN	+/- 10.5'	+/- 4'
MAX LOT COVERAGE	45% MAX (46,458 SF)	53.9% (55,688 SF)	54.8% (56,583 SF)
BUILDING HEIGHT LIMIT	28' MAX	+/- 27'-4"'	+/- 27'-4"'
PARKING	NONE	NONE	NONE
BICYCLE PARKING	NONE	10	10

APPLICABLE CODES:
2022 CALIFORNIA BUILDING CODE, 2022 CALIFORNIA PLUMBING CODE, 2022 CALIFORNIA ENERGY CODE, 2022 CALIFORNIA FIRE CODE, 2022 CALIFORNIA GREEN BUILDING, CITY OF BERKELEY MUNICIPAL CODE 2022 CALIFORNIA MECHANICAL CODE, 2022 CALIFORNIA ELECTRICAL CODE)

PROJECT DESCRIPTION

RENOVATION OF THE EXISTING 10,655 SQUARE FOOT MARTIN LUTHER KING JR YOUTH SERVICES CENTER | YOUNG ADULT PROJECT (YAP) ORIGINALLY CONSTRUCTED IN 1960. THE BUILDING IS PART OF THE CITY'S LOCAL HAZARD MITIGATION PLAN AND RESILIENCY PLANS TO PROVIDE CARE AND SHELTER PROGRAM WHICH SERVES TO SUPPORT THE COMMUNITY IN THE EVENT OF EMERGENCY FOR RESOURCE DISTRIBUTION, INFORMATION, AND IF NECESSARY TO SHELTER PEOPLE DISPLACED BY DISASTER.

THE BUILDING WILL UNDERGO A SEISMIC RETROFIT, ACCESSIBILITY UPGRADES, ALL NEW MEP SYSTEMS, AND THE ADDITION OF FIRE ALARMS AND SPRINKLERS. IN ADDITION TO THESE UPGRADES, THE PROJECT AIMS TO RECONFIGURE PROGRAM SPACES AND PROVIDE ALL NEW FINISHES TO BE MORE INVITING AND BETTER SERVE TEEN PROGRAMMING.

PROJECT SITE IMPROVEMENTS INCLUDE: GRADING; PAVING, UTILITIES; STORMWATER CATCHMENT AREA; ACCESSIBLE RAMPS AND WALKWAYS; BICYCLE PARKING; ACCESSIBLE PARKING STALL; CONCRETE CURBS AND SIDEWALKS; TREE REMOVAL AND REPLACEMENT.

SUSTAINABLE DESIGN ELEMENTS: REUSE OF EXISTING BUILDING; COLLECT AND TREAT STORM DRAINAGE; OPTIMIZE NATURAL VENTILATION, DAYLIGHTING; PROVIDE A HIGH PERFORMANCE BUILDING ENVELOPE W/ INSULATION, AIR-SEALING, HIGH-PERFORMING WINDOWS, REFLECTIVE ROOFS, AND DURABLE SIDING; DESIGN FOR ZERO NET ENERGY WITH PV AND BATTERY BACK-UP SYSTEM; HIGH EFFICIENCY MECH, ELEC, AND LIGHTING SYSTEMS; LOW-FLOW PLUMBING FIXTURES; SPECIFY MATERIALS THAT ARE HIGH IN RECYCLED-CONTENT, HAVE LOW EMBODIED CARBON, AND LOW VOC'S.

DEFERRED SUBMITTALS

SHOP DRAWINGS AND CALCULATIONS STAMPED AND SIGNED BY A CALIFORNIA-LICENSED ENGINEER SHALL BE SUBMITTED TO THE ARCHITECT AND BUILDING DEPARTMENT FOR THE FOLLOWING ITEMS:

- ACCESS CONTROL AND INTRUSION SYSTEM
- PHOTOVOLTAIC AND BATTERY ENERGY STORAGE SYSTEM DESIGN
- FIRE SUPPRESSION SYSTEM
  1. THE DESIGN AND INSTALLATION FOR THE FIRE SPRINKLER UNDERGROUND PIPING AND ASSOCIATED WORK SHALL BE IN ACCORDANCE WITH NFPA 13-2022 EDITION AND NPFA 24-2019 EDITION.
  2. THE DESIGN AND INSTALLATION OF THE FIRE SPRINKLER SYSTEM SHALL BE IN ACCORDANCE WITH NFPA 13-2022 EDITION. [CFC §903.3.1.1]
  3. THE DESIGN AND INSTALLATION OF THE FIRE EXTINGUISHING SYSTEM PROTECTING THE KITCHEN EQUIPMENT UNDER THE TYPE I HOOD/DUCT MUST BE COMPLETED AS A DEFERRED SUBMITTAL UNDER A SEPARATE FIRE PERMIT.
- FIRE DETECTION AND ALARM SYSTEM
  1. THE DESIGN AND INSTALLATION OF A "MANUAL" FIRE ALARM SYSTEM" FOR BUILDINGS CONTAINING A GROUP A OCCUPANCY MUST BE IN ACCORDANCE WITH BERKELEY FIRE CODE §NN SECTION 907.2.1 AND NFPA 72, 2022 EDITION.
     A. THE BERKELEY FIRE CODE PROHIBITS THE ELIMINATION OF MANUAL PULL STATIONS IN FULLY SPRINKLERED BUILDINGS CONTAINING A GROUP A OCCUPANCY. [BFC §907.2.1]
- A FIRE DEPARTMENT OPERATION PERMIT AS A DEFERRED SUBMITTAL IS REQUIRED TO ESTABLISH, MAINTAIN AND OPERATE A PLACE OF ASSEMBLY.

CONSTRUCTION WASTE MANAGEMENT

CONSTRUCTION WASTE MANAGEMENT PLAN SHALL BE SUBMITTED TO THE BUILDING DEPARTMENT VIA GREEN HALO APPLICATION AT WWW.BERKELEY.WASTETRACKING.COM IN ACCORDANCE WITH CGBSC 301.3.2 AND BMC 19.37.040.

PROJECT DIRECTORY

CLIENT

CITY OF BERKELEY PARKS, RECREATION AND WATERFRONT DEPARTMENT
CAPITAL PROJECTS DIVISION
1947 CENTER STREET, 5TH FLOOR
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CONTACT: EVELYN CHAN
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E: ECHAN@BERKELEYCA.GOV

CIVIL ENGINEER

CSW/STUBER-STROEH ENGINEERING GROUP, INC
45 LEVERONI COURT
NOVATO, CA 94949
CONTACT: RICH SOUZA
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E: RICHS@CSWST2.COM

ARCHITECT (REGISTERED DESIGN PROFESSIONAL)

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STRUCTURAL ENGINEER

IDA STRUCTURAL ENGINEERS
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OAKLAND, CA 94612
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1630 SAN PABLO AVENUE, SUITE 200
OAKLAND, CA 94612
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MECHANICAL/PLUMBING ENGINEER

ALTER CONSULTING ENGINEERS
1624 FRANKLIN STREET, SUITE 1300
OAKLAND, CA 94612
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T: (510) 406-8535
E: MATT@ALTERENGINEERS.COM

ELECTRICAL ENGINEER

O'MAHONY & MYER ELECTRICAL ENGINEERING & LIGHTING DESIGN
4340 REDWOOD HIGHWAY #245
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E: PCOLENBRANDER@OMMCONSULTING.COM

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CATALYST CONSULTING GROUP
1163 LARKIN WAY
NAPA, CA 94558
CONTACT: KEVIN WOOD
T: (707) 224-3020
E: KEVINW@CCGNAPA.COM

FOOD SERVICES

EDWARD DON & COMPANY
101 LINDEN STREET
OAKLAND, CA 94607
CONTACT: JEFFREY MELTON
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E: JEFFREYMELTON@DON.COM

SIGNAGE

DONNELLY DESIGN
111 SACRAMENTO STREET
RIO VISTA, CA 94571
CONTACT: TOM DONNELLY
T: (707) 803-1789
E: TOM@DONNELLYDESIGN.COM

Project Title:

CITY OF BERKELEY
PARKS, RECREATION & WATERFRONT DEPARTMENT
MLK JR. YOUTH SERVICES CENTER / YAP
SEISMIC RETROFIT AND RENOVATION
1730 Oregon Street, Berkeley, CA 94703
APN#: 053-1676-001-02

Design Firm:

SIEGEL & STRAIN Architects
6201 Doyle Street, Suite B
Emeryville, CA 94608
TEL 510 / 547-8092
info@siegelstrain.com

Consultant:

Stamp:

LICENSED ARCHITECT
KAREN RICHARDS
No. C-32146
Exp: 08-31-25
STATE OF CALIFORNIA

No.	Description	Date
	PLANNING SET	01/09/23
	PLANNING RESUBMITTAL	4/28/23
	PERMIT SET	12/04/24
1	PLAN CHECK #1	03/07/25

Issue Note: PERMIT RESUBMITTAL 03/07/25

City Plan No.:	8286
City File No.:	402-145
Specification No.:	#25-11695-C
Project ID:	YAP
Drawn by:	MJ
Checked by:	KR
Plot Date:	
Scale:	1" = 80'-0"

Sheet Title: COVER SHEET

Sheet No.: G0.01

3/7/2025 5:09:29 PM

Planning and Development Department
Land Use Planning

U S E P E R M I T

CITY OF BERKELEY ZONING ORDINANCE
Berkeley Municipal Code Title 23

USE PERMIT: #ZP2023-0018

Property Address: **1730 OREGON STREET**

Permittee Name: **EVELYN CHAN, PARKS, RECREATION & WATERFRONT**

Use and/or Construction Permitted: **Variance #ZP2023-0018 to further exceed the nonconforming lot coverage by 1.7 percent, for a total of 60.5 percent, by constructing two additions that total 895 square feet in new gross floor area and an 80 square foot covered porch to an existing 10,655 square foot community center building within the front and rear setback, pursuant to:**

- **Variance** from Berkeley Municipal Code (BMC) Section 23.202.090(D), under BMC 23.406.050, to increase lot coverage on a lot that exceeds the maximum allowance
- **Administrative Use Permit**, under BMC Section 23.324.050(D)(2) to vertically and horizontally extend building walls projecting into the minimum front and rear setbacks

FINDINGS, CONDITIONS AND APPROVED PLANS ATTACHED

The Use Permit herein described has been duly granted by the Zoning Adjustments Board and is in effect on March 6, 2024.

ATTACHMENT 1

FINDINGS AND CONDITIONS
FEBRUARY 8, 2024

1730 Oregon Street
Martin Luther King Jr. Youth Services Center / Young Adult Project

Variance #ZP2023-0018 to further exceed the nonconforming lot coverage by 1.7 percent, for a total of 60.5 percent, by constructing two additions that total 895 square feet in new gross floor area and an 80 square foot covered porch to an existing 10,655 square foot community center building within the front and rear setback.

PERMITS REQUIRED

- **Variance** from Berkeley Municipal Code (BMC) Section 23.202.090(D), under BMC 23.406.050, to increase lot coverage on a lot that exceeds the maximum allowance
- **Administrative Use Permit**, under BMC Section 23.324.050(D)(2) to vertically and horizontally extend building walls projecting into the minimum front and rear setbacks

I. CEQA FINDINGS

1. The project is categorically exempt from the provisions of the California Environmental Quality Act (CEQA, Public Resources Code §21000, et seq. and California Code of Regulations, §15000, et seq.) pursuant to Section 15301 of the CEQA Guidelines ("Existing Facilities").

2. Furthermore, none of the exceptions in CEQA Guidelines Section 15300.2 apply, as follows: (a) the site is not located in an environmentally sensitive area, (b) there are no cumulative impacts, (c) there are no significant effects, (d) the project is not located near a scenic highway, (e) the project site is not located on a hazardous waste site pursuant to Government Code Section 65962.5, and (f) the project will not affect any historical resource.

II. VARIANCE FINDINGS FOR APPROVAL

As required by BMC Section 23.406.050(F), the Zoning Adjustments Board finds that the Variance from BMC Section 23.202.090(D)(1) to further exceed lot coverage by an additional 1.7 percent, for a total of 60.5.8 percent, where the maximum lot coverage is 45 percent is allowed within the portion of the lot zoned R-2 District is permissible because:

A. <u>There are exceptional circumstances applying to the property which do not apply generally in the same district:</u>

Evidence: There are three exceptional circumstances that apply to the property which do not apply generally in the same district.

Site conditions. The lot was historically developed with nonresidential buildings, including two main buildings arranged in a U-shaped built around 1915 as Edison Junior High School and a double-height gymnasium, as well as the subject building which was constructed in

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1950 as a recreation center. The types of buildings and uses that exist on the site, while generally compatible with residential zoning, utilize building forms that are not typically associated with residential uses. Nonresidential buildings are larger than the low-to medium density housing types typically found within the R-2 and R-2A zoning, as they are meant to handle assembly occupancy loads, serving many people at one time.

Ownership. There are exceptional ownership limitations that restrict the ability to redevelop the lot and improve the subject building. The subject lot is owned by Berkeley Unified School District (BUSD). The majority of the lot is occupied by the BUSD Corporation Yard structures and accounts for about 39 percent of the 58.8 percent lot coverage in the R-2 portion of the lot. Through a long-term lease agreement with BUSD, the City has the ability to maintain and improve the subject community center located at the northeast corner of the lot. However, the lease agreement limits the redevelopment of the site to the subject building both contractually and physically, due to the location of existing BUSD structures. Since the City is restricted from modifying other structures on BUSD-owned property, the City cannot reduce the lot coverage of other on-site structures to create consistency with the R-2 requirement. Although other options to modify the community center's building envelope were considered, all options will have increased the site's nonconforming lot coverage. For example, an option to expand vertically by adding a second story would have further increased the nonconformity because the allowable lot coverage on the R-2 zoned portion of the lot will decrease from 45 percent to 40 percent. See the following table from BMC Section 23.202.090(D) where lot coverage standards are based on number of stories and lot type.

Table 23.202-7. R-2 Lot Coverage Standards

	STANDARD BASED ON BUILDING HEIGHT			
	1 STORY	2 STORIES	3 STORIES	SUPPLEMENTAL STANDARDS
Lot Coverage, Maximum				
Interior and Through Lots	45%	40%	35%	23.304.120
Corner Lots	50%	45%	40%	

Given the unique ownership limitations of the lot, strict application of the lot coverage will preclude the City from improving an existing recreational facility.

Public Benefit. Unlike other residentially zoned lots in the district, the lot is used for general service and public use. The City is responsible for providing a safe and accessible recreational facility. With the last major renovation to the facility in the 1970s, the existing building is comprised of rooms for public programming and a gymnasium, however, there are no corridors or hallways – the circulation to program spaces is through adjacent rooms. The building is partially accessible and requires upgrades to comply with Americans with Disabilities (ADA) standards and emergency egress requirements. It will also provide a fire sprinkler riser room necessary to support a new fire sprinkler system that will reduce the spread of building fire to residential properties and Grove Park. With the additional floor area, the proposed project will facilitate building accessibility and safety for the public and staff,

allowing for a safer path of travel in and around the building. The proposed additions will also create additional programmatic space to serve a greater proportion of for Berkeley youth and young adults. As designated care and shelter site, the project modifications will benefit the larger community in the event of an emergency activation. These improvements are aligned with the City's General Plan, Strategic Plan, and Capital Improvement Plan.

As stated, the historic nonresidential development, unique lot ownership, and public use conditions impact the lot and limit the location and size of the proposed additions on the subject lot and create exceptional circumstances not typical of other properties in the R-2 and R-2A districts.

B. <u>The Variance is necessary to preserve a substantial property right:</u>

Evidence: There are several approved City-wide plans, policy directives, and programs that substantiate the proposed project to improve and update the MLK Jr. Youth Services Center. The City is required to maintain and modernize existing public facilities to meet identified community needs, safety, and accessibility requirements.

Adopted in January 2018, the Strategic Plan identifies long-term goals and short-term priorities to benefit the general public. The proposed project is consistent with several of the Strategic Plan's goals, as it will feasibly improve an existing community center located in a historically underserved neighborhood by responding to the changing needs of the community through the provision of additional recreational and communal space necessary to offer meaningful experiences that include tutoring, violence prevention, and leadership development component for teens amongst other community services. Since the community center also serves as a care and shelter facility during an emergency, these enhancements to building accessibility and safety will create a more prepared, safe, and resilient community.

The proposed project is an approved Measure T1, Phase Two project. Measure T1 is an infrastructure and facilities bond that was approved by the Berkeley voters in November 2016. The Phase Two project list was adopted by City Council on December 15, 2020 and funds improvements to several designated care and shelter sites, including the MLK Jr. Youth Services Center, amongst other city-wide infrastructure projects. An identified priority, the proposed project will administer community mandated funds by feasibly modernizing an existing public facility, allowing for continued use and expansion to meet community need.

The proposed project is supported by number of General Plan[1] policies, including, but not limited to Policy Open Space (OS) -1 Preservation, Policy OS-2 Maintenance, Repair, and Enhancements, Policy OS-5 Community Participation, and Policy OS-7 Serving Disadvantage Communities, discussed further in Section VI.D. The proposed additions respond to the changing needs of the community by establishing more meeting space for community meetings, programming, and all-gendered bathrooms, as well as fire riser room for new fire sprinklers, to an existing community center facility. The design of the proposed additions to the north and eastern portions are based on community feedback received from program participants, neighbors, families, and community center staff. Strict application of the lot coverage will preclude the MLK Jr. Youth Service Center from modernizing and will

[1] City of Berkeley General Plan Open Space and Recreation Element
https://berkeleyca.gov/sites/default/files/documents/08_Open%20Space%20and%20Recreation%20Element-FINAL.pdf

therefore limit the ability of the public facility to serve the community as both youth services center and a care and shelter facility in the event of a natural disaster. The proposed modifications of this facility will allow the City to offer an improved level of service to historically underserved neighborhood and the general public.

C. <u>The Variance will not adversely affect the health or safety of persons residing or working near the property:</u>

Evidence: A Variance to further exceed lot coverage will not adversely affect the health and safety of persons residing or working near the property. The site is already developed with nonresidential buildings, the community center use will not change, and the proposed additions are relatively small compared to the site as a whole. The proposed project will not increase setback nonconformities. The proposed 566 square foot, single-story addition along Oregon Street extends 8 feet, 1 inch into the front setback, maintaining the existing building front setback and does not exacerbate the existing nonconforming condition. Similarly, about 50 square feet of the 329 square foot eastern addition that abuts the lots developed with Grove Park to the east and the residential use to the south, projects about 7 feet, 8 inches into the rear setback, consistent with the existing building and does not exacerbate the existing nonconformity.

The increased lot coverage will allow for additions that will increase fire and weather protection of persons using or working near the property. The portion of the eastern addition that projects into the rear setback is reserved for fire sprinkler system control and maintenance. Dedicated area for the new fire sprinkler riser room will facilitate a safer environment for both building occupants and neighboring residential units by modernizing preventative fire measures. The riser room will provide an easily identified and accessible location for all of the facility's fire sprinkler and protection equipment. Increased lot coverage will allow for a new fire sprinkler system will reduce the spread of building fire to residential properties and Grove Park.

Increasing lot coverage to accommodate additions to the existing building will reduce impacts related to long-term construction associated with a total redevelopment of the site. Compared to a demolition and reconstruction of the entire structure to bring the site into zoning conformance, the proposed project will reduce the construction timeline to modernize the existing community center. The limited construction timeline will not be detrimental to those living and working near the site as it will curb common impacts associated with long-term construction to the immediate neighborhood and will result in the timely delivery of expanded services to the Berkeley youth and young adults.

D. <u>The Variance will not be materially detrimental to the public welfare or injurious to nearby property or improvements:</u>

Evidence: The increase in lot coverage will not be materially detrimental to the public welfare or injurious to nearby property or improvements and will not result in the reduction of abutting public open space. Grove Park is east of the project site and offers a variety of recreational opportunities, including tennis courts, basketball courts, ball fields, and play structures. Additions along the eastern portion of the building will not expand into any of the play courts or fields, and will not impact the location of any playgrounds that are currently under construction. Ranging from 13 feet, 8 inches to 20 feet, 8 inches in average building height, the eastern additions will have minimal shade and air impacts to existing walkways, fields, play court, and structures, and will increase accessibility to and within the building. The proposed project will not be detrimental to the nearby park improvements as it preserves the quality and existing type of open space.

Similarly, the increased lot coverage will not be injurious to residential properties in the neighborhood. Apart from lot coverage, the proposed project will be consistent with underlying development standards and will not exacerbate nonconforming setbacks. Consistent with the existing nonconforming front setback, the proposed northern addition will maintain an average building height of 13 feet ,8 inches and will result in minimal shade and air impacts to existing residences along Oregon Street.

The proposed project will not be detrimental to the public as it will increase fire protections. In the event of a building fire, the proposed fire sprinkler riser room will facilitate fire safety for nearby residences and Grove Park by modernizing preventative fire measures. The riser room will provide an easily identified and accessible location for all of the facility's fire sprinkler and protection equipment. Increased lot coverage will allow for a new fire sprinkler system will reduce the spread of building fire to residential properties and Grove Park.

The additions and seismic upgrades will also allow the subject building to be used in an emergency as a shelter and care facility, which will increase the City's ability to assist the public in the event of a natural disaster.

E. <u>The Variance will promote the municipal health, welfare, and safety and benefit the city as a whole:</u>

Evidence: The Variance allows for the expansion of an existing community center that will promote the municipal health, welfare, and safety and benefit the City as a whole. The proposed improvements are aligned with approved City-wide policies and Council-approved programs, like the Strategic Plan and Measure T1, aimed to benefit the whole Berkeley community.

Adopted January 2018, The Strategic Plan identifies long-term goals and short-term priorities to benefit the general public. The proposed project is consistent with several of the Strategic Plan's goals as it will feasibly improve an existing community center located in a historically underserved neighborhood by responding to the changing needs of the community through the provision of additional recreational and communal space necessary to offer meaningful experiences that include tutoring, violence prevention, and leadership development

component for teens amongst other community services. Since the community center also serves as a care and shelter facility during an emergency, enhancements to building accessibility and safety will create a more functional, prepared, safe, and resilient community.

The proposed project is an approved Measure T1, Phase Two project. Measure T1 is an infrastructure and facilities bond that was approved by the Berkeley voters in November 2016. Development of the Phase Two project list involved an extensive city-wide community engagement process. The Phase Two project list was adopted by City Council on December 15, 2020 and includes improvements to several designated care and shelter sites, like the MLK Jr. Youth Services Center. The proposed project will benefit the community as whole because it will feasibility modernize an existing public facility by adding more communal space and making the building safer – a priority that was identified by the Berkeley community.

F. <u>Any other Variance findings required by Zoning Ordinance can be made:</u>

Evidence: N/A – There are no additional Variance findings applicable to tis request.

III. NONCONFORMING SETBACKS FINDINGS FOR APPROVAL

1. As required by BMC Section 23.324.050(D), an addition that horizontally extends a building wall into a minimum required setback is allowed if the existing use is conforming, enlargement does not increase or exacerbate nonconforming setbacks, and if it does not exceed maximum or calculated height limits.

   The existing community center is a conforming use in the R-2 and R-2A districts. The proposed additions that extend into the nonconforming setbacks will not exacerbate nonconforming setback conditions and will be below the maximum average building height limits. The northern addition will maintain the existing nonconforming setback at 12 feet, 9 inches, where the requirement is 20 feet. The addition along the southern portion of the building will maintain a nonconforming rear setback of 16 feet, 11 inches, where the requirement is 20 feet. Both additions that project into these required setbacks will be 13 feet, 8 inches in average height, below the maximum height requirement of 28 feet for nonresidential additions.

IV. NON-DETRIMENT FINDINGS FOR APPROVAL

1. As required by BMC Section 23.406.040(E)(1), the project, under the circumstances of this particular case existing at the time at which the application is granted, will not be detrimental to the health, safety, peace, morals, comfort, and general welfare of the persons residing or working in the neighborhood of such proposed use or be detrimental or injurious to property and improvements of the adjacent properties, the surrounding area or neighborhood, or to the general welfare of the City because:

   A. The project site is located in South Berkeley, on a relatively flat lot. The northern and the rear portion of the eastern addition, which will be located in the required front and rear setbacks, are under 14 feet in average height. The tallest portion of the eastern addition (entry way, eastern meeting room, and bathrooms) is located outside of all required setbacks and will have an average height of 20 feet, 8 inches. This is below the tallest portion of the existing building at the gymnasium, which is 27 feet and 4 inches. The project does not obstruct any significant view corridors as defined in BMC Section

23.502.020(V)(12)[2] because there are no view corridors visible from the site. With minor bulk and massing modifications, distance from residential lots along Oregon Street, and the amount of existing tall foliage along the rear property line, the shadow impacts from the project will be reasonable and not detrimental. The project site abuts Grove Park to the east, and residential uses to the south and across the street to the north. The northern addition will not result in any privacy impacts as the addition fronts Oregon Street and extends into the front setback, aligned with the existing building line and is over 80 linear feet from the nearest residential building along Oregon Street. The eastern addition that faces an accessory structure of a residential dwelling unit to the south does not propose any new windows. The eastern additions will result in minimal privacy impacts as they primarily face Grove Park and the rear of an existing residential unit. Further, existing foliage that extends greater than 35 feet in height and fencing along the property line shared with the southeast residential unit will mitigate privacy impacts.

B. The proposed project will feasibly improve an existing community center located in a historically underserved neighborhood by responding to the changing needs of the community through the provision of additional recreational and communal space necessary to offer meaningful experiences that include tutoring, violence prevention, and leadership development component for teens amongst other community services. Since the community center also serves as a care and shelter facility during an emergency, enhancements to building accessibility and safety will create a more functional prepared, safe, and resilient community.

C. The project is subject to the City's standard conditions of approval regarding construction noise and air quality, waste diversion, toxics, and stormwater requirements, thereby ensuring the project will not be detrimental to the health, safety, peace, morals, comfort or general welfare of persons residing or working in the area or neighborhood of such proposed use or be detrimental or injurious to property and improvements of the adjacent properties, the surrounding area or neighborhood or to the general welfare of the City.

[2] View Corridor - A significant view of the Berkeley Hills, San Francisco Bay, Mt. Tamalpais, or a significant landmark such as the Campanile, Golden Gate Bridge, and Alcatraz Island or any other significant vista that substantially enhances the value and enjoyment of real property.

Project Title:

CITY OF BERKELEY
PARKS, RECREATION & WATERFRONT DEPARTMENT
MLK JR. YOUTH SERVICES CENTER / YAP
SEISMIC RETROFIT AND RENOVATION
1730 Oregon Street, Berkeley, CA 94703
APN#: 053-1676-001-02

Design Firm:
SIEGEL & STRAIN Architects
6201 Doyle Street, Suite B
Emeryville, CA 94608
TEL 510 / 547-8092
info@siegelstrain.com

Consultant:

Stamp:

LICENSED ARCHITECT
KAREN RICHARDS
No. C-32146
Exp: 08-31-25
STATE OF CALIFORNIA

No.	Description	Date
	PERMIT SET	12/04/24

Issue Note: PERMIT RESUBMITTAL 03/07/25

City Plan No.:	8286
City File No.:	402-145
Specification No.:	#25-11695-C
Project ID:	YAP
Drawn by:	HL
Checked by:	KR
Plot Date:	
Scale:	

Sheet Title:
ZONING PERMIT CONDITIONS

Sheet No.:
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V. STANDARD CONDITIONS OF APPROVAL FOR ALL PROJECTS

The following conditions, as well as all other applicable provisions of the Zoning Ordinance, apply to this Permit:

1. Conditions Shall be Printed on Plans
The conditions of this Permit shall be printed on the *second* sheet of each plan set submitted for a building permit pursuant to this Use Permit, under the title 'Use Permit Conditions.' *Additional sheets* may also be used if the *second* sheet is not of sufficient size to list all of the conditions. The sheet(s) containing the conditions shall be of the same size as those sheets containing the construction drawings; 8-1/2" by 11" sheets are not acceptable.

2. Compliance Required (BMC Section 23.102.050)
All land uses and structures in Berkeley must comply with the Zoning Ordinance and all applicable City ordinances and regulations. Compliance with the Zoning Ordinance does not relieve an applicant from requirements to comply with other federal, state, and City regulations that also apply to the property.

3. Approval Limited to Proposed Project and Replacement of Existing Uses (BMC Sections 23.404.060.B.1 and 2)
A. This Permit authorizes only the proposed project described in the application. In no way does an approval authorize other uses, structures or activities not included in the project description.
B. When the City approves a new use that replaces an existing use, any prior approval of the existing use becomes null and void when permits for the new use are exercised (e.g., building permit or business license issued). To reestablish the previously existing use, an applicant must obtain all permits required by the Zoning Ordinance for the use.

4. Conformance to Approved Plans (BMC Section 23.404.060.B.4)
All work performed under an approved permit shall be in compliance with the approved plans and any conditions of approval.

5. Exercise and Expiration of Permits (BMC Section 23.404.060.C)
A. A permit authorizing a land use is exercised when both a valid City business license is issued (if required) and the land use is established on the property.
B. A permit authorizing construction is exercised when both a valid City building permit (if required) is issued and construction has lawfully begun.
C. The Zoning Officer may declare a permit lapsed if it is not exercised within one year of its issuance, except if the applicant has applied for a building permit or has made a substantial good faith effort to obtain a building permit and begin construction. The Zoning Officer may declare a permit lapsed only after 14 days written notice to the applicant. A determination that a permit has lapsed may be appealed to the ZAB in accordance with Chapter 23.410 (Appeals and Certification).
D. A permit declared lapsed shall be void and of no further force and effect. To establish the use or structure authorized by the lapsed permit, an applicant must apply for and receive City approval of a new permit.

6. Permit Remains Effective for Vacant Property (BMC Section 23.404.060.D)
Once a Permit for a use is exercised and the use is established, the permit authorizing the use remains effective even if the property becomes vacant. The same use as allowed by the original permit may be re-established without obtaining a new permit, except as set forth in Standard Condition #5 above.

7. Permit Modifications (BMC Section 23.404.070)
No change in the use or structure for which this Permit is issued is permitted unless the Permit is modified by the Board. The Zoning Officer may approve changes to plans approved by the Board, consistent with the Board's policy adopted on May 24, 1978, which reduce the size of the project.

8. Permit Revocation (BMC Section 23.404.080)
The City may revoke or modify a discretionary permit for completed projects due to: 1) violations of permit requirements; 2) Changes to the approved project; and/or 3) Vacancy for one year or more. However, no lawful residential use can lapse, regardless of the length of time of the vacancy. Proceedings to revoke or modify a permit may be initiated by the Zoning Officer, Zoning Adjustments Board (ZAB), or City Council referral.

9. Hold Harmless. The permittee agrees as a condition of approval of this application to indemnify, protect, defend with counsel selected by the City, and hold harmless, the City, and any agency or instrumentality thereof, and its elected and appointed officials, officers, employees and agents, from and against any and all liabilities, claims, actions, causes of action, proceedings, suits, damages, judgments, liens, levies, costs and expenses of whatever nature, including reasonable attorney's fees and disbursements (collectively, "Claims") arising out of or in any way relating to the approval of this application, any actions taken by the City related to this entitlement, or any environmental review conducted under the California Environmental Quality Act, Public Resources Code Section 210000 et seq., for this entitlement and related actions. The indemnification shall include any Claims that may be asserted by any person or entity, including the permittee, arising out of or in connection with the approval of this application, whether or not there is concurrent, passive or active negligence on the part of the City, and any agency or instrumentality thereof, and its elected and appointed officials, officers, employees and agents. The permittee's duty to defend the City shall not apply in those instances when the permittee has asserted the Claims, although the permittee shall still have a duty to indemnify, protect and hold harmless the City.

VI. ADDITIONAL CONDITIONS IMPOSED BY THE ZONING ADJUSTMENTS BOARD

Pursuant to BMC23.404.050(H), the Zoning Adjustments Board attaches the following additional conditions to this Permit:

Prior to Submittal of Any Building Permit:

10. Project Liaison. The applicant shall include in all building permit plans and post onsite the name and telephone number of an individual empowered to manage construction-related complaints generated from the project. The individual's name, telephone number, and responsibility for the project shall be posted at the project site for the duration of the project in a location easily visible to the public. The individual shall record all complaints received and actions taken in response, and submit written reports of such complaints and actions to the project planner on a weekly basis. **Please designate the name of this individual below:**

☐ **Project Liaison** EVELYN CHAN (510) 981-6430
Name Phone #

Prior to Issuance of Any Building & Safety Permit (Demolition or Construction)

11. Construction and Demolition Diversion. Applicant shall submit a Construction Waste Management Plan that meets the requirements of BMC Chapter 19.37 including 100% diversion of asphalt, concrete, excavated soil and land-clearing debris and a minimum of 65% diversion of other nonhazardous construction and demolition waste.

12. Toxics. The applicant shall contact the Toxics Management Division (TMD) at 1947 Center Street or (510) 981-7470 to determine which of the following documents are required and timing for their submittal:

A. Phase I and Phase II Environmental Site Assessment (ESA) (per ASTM 1527). A recent Phase I ESA (less than 2 years old) shall be submitted to the Toxics Management Division for developments for: all new commercial, industrial and mixed-use developments and all improvement projects that require work 5 or more feet below grade, and all new residential buildings with more than four dwelling units located in the Environmental Management Area (or EMA). The EMA can be viewed at: City of Berkeley Community GIS Portal (arcgis.com)

B. Depending on the findings in the Phase I, a Phase II or additional investigation may be necessary. Any available soils and groundwater analytical data available for projects listed in this section must also be submitted to TMD.

C. Environmental Site Clearance. The applicant shall provide environmental screening clearance from either the San Francisco Bay Regional Water Quality Control Board (RWQCB), Department of Toxic Substances Control (DTSC), or the Alameda County Department of Environmental Health's Local Oversight Program (LOP). Clearance from one of these regulatory agencies will ensure that the property meets development investigation and cleanup standards for the specific use proposed on the property. Environmental screening clearance shall be submitted to the City of Berkeley's Toxics Management Division prior to issuance of any building permits.

D. Soil and Groundwater Management Plan. A site-specific Soil and Groundwater Management Plan (SGMP) shall be submitted to Toxics Management Division (TMD) for all non-residential projects, and residential or mixed-use projects with more than four dwelling units, that: (1) are in the Environmental Management Area (EMA), as shown on the most recent City of Berkeley EMA map, and (2) propose any excavations deeper than 5 feet below grade or if significant soils removal is anticipated. The SGMP shall be submitted to the TMD with the project's building permit application and shall be approved by TMD prior to issuance of the building permit.

The SGMP shall comply with the hazardous materials and waste management standards required by BMC Section 15.12.100, the stormwater pollution prevention requirements of San Francisco Bay Regional Water Quality Control Board's Order No. R2-2009-0074, California hazardous waste generator regulations (Title 22 California Code of Regulations (CCR) 66260 et seq.), and the East Bay Municipal Utility District's Ordinance 311, and shall include the following:

i. procedures for soil and groundwater management including identification of pollutants and disposal methods;
ii. procedures to manage odors, dust and other potential nuisance conditions expected during development;
iii. notification to TMD within 24 hours of the discovery of any previously undiscovered contamination; and
iv. the name and phone number of the individual responsible for implementing the SGMP and who will respond to community questions or complaints.

TMD may require additional information or impose additional conditions as deemed necessary to protect human health and the environment. All requirements of the approved SGMP shall be deemed conditions of approval.

E. Demolitions & Renovations – Building Materials Survey. A hazardous materials survey for building materials and plans on hazardous materials and hazardous waste removal and disposal is required and must be prepared by qualified professionals, and submitted to the Toxics Management Division (TMD) prior to issuance of the building permit.

v. The survey shall include the identification of all materials to be disturbed for lead-based paints, PCB containing equipment and caulking, hydraulic fluids, refrigerants, treated wood, and mercury containing devices (including fluorescent light bulbs and mercury switches), asbestos and other hazardous materials and chemicals.
vi. If asbestos is identified, Bay Area Air Quality Management District Regulation 11-2-401.3 a notification must be made and the J number must be made available to the City of Berkeley Permit Service Center. Contractors must follow state regulations where there is asbestos-related work involving 100 square feet or more of asbestos containing material (8 Cal. Code Regs. §1529, §341.6 et seq.)
vii. The report to the TMD shall include, in addition to the survey, plans on hazardous materials and hazardous waste removal and disposal that comply with State and Federal codes including California Code of Regulations (CCR) 66260 et seq.

viii. Documentation evidencing disposal of hazardous waste in compliance with the survey shall be submitted to TMD within 30 days of the completion of the demolition.

Please note, the PCB Screening Form required by Public Works, Engineering, is a separate requirement and does not address the PCB identification requirement of the Toxics Management Division.

F. Hazardous Materials Business Plan. A Hazardous Materials Business Plan (HMBP) in compliance with BMC Section 15.12.040 and California Health & Safety Code, Chapter 6.95 Div. 20, shall be submitted to the Toxics Management Division through the California Environmental Reporting System: http://cers.calepa.ca.gov/ for chemicals used or stored on site during construction that exceed reporting thresholds. The reporting is required if your facility stores or handles hazardous materials in aggregate quantities equal to or greater than 55 gallons for liquids, 500 pounds for solids, or 200 cubic feet of compressed gases, or generates any quantity of hazardous waste. This includes welding gases, emergency generator fuel, paints, etc.

Additionally, the business occupant must submit an HMBP within 30 days of starting operations.

G. Petroleum Storage. An (SPCC) Plan is required to be prepared and implemented for facilities with any one of the following:

ix. aggregate aboveground petroleum storage capacities of 1,320 gallons or more stored in aboveground storage containers, tanks, oil-filled equipment, or
x. one or more tank(s) in an underground area (TIUGA) with petroleum storage capacities of 55 gallons or greater. More information on TIUGAs can be found here: https://osfm.fire.ca.gov/divisions/pipeline-safety-and-cupa/certified-unified-program-agency-cupa/aboveground-petroleum-storage-act/tank-in-an-underground-area-tiuga/

The SPCC plan must be prepared prior to beginning operations and you must submit facility information to Toxics Management Division (TMD) through the California Environmental Reporting System: http://cers.calepa.ca.gov/. The SPCC plan will be reviewed during the site inspection and shall not be submitted in CERS or to the TMD.

Prior to Issuance of Any Building (Construction) Permit

13. HVAC Noise Reduction. Prior to the issuance of building permits, the project applicant shall submit plans that show the location, type, and design of proposed heating, ventilation, and cooling (HVAC) equipment. In addition, the applicant shall provide product specification sheets or a report from a qualified acoustical consultant showing that operation of the proposed HVAC equipment will meet the City's exterior noise requirements in BMC Section 13.40.050. The City's Planning and Development Department shall review the submitted plans, including the selected HVAC equipment, to verify compliance with exterior noise standards.

14. Recycling and Organics Collection. Applicant shall provide recycling and organics collection areas for occupants, clearly marked on site plans, which comply with the Alameda County Mandatory Recycling Ordinance (ACWMA Ordinance 2012-01).

15. Public Works ADA. Plans submitted for building permit shall include replacement of sidewalk, curb, gutter, and other streetscape improvements, as necessary to comply with current City of Berkeley standards for accessibility.

16. Required Parking Spaces for Persons with Disabilities. Per BMC Section 23.322.040.H of the Zoning Ordinance, "If the number of required off-street parking spaces in a non-residential district is reduced as allowed by this chapter, the number of required parking spaces for persons with disabilities shall be calculated as if there had been no reduction in required spaces."

During Construction:

17. Construction Hours. Construction activity shall be limited to between the hours of 8:00 AM and 6:00 PM on Monday through Friday, and between 9:00 AM and Noon on Saturday. No construction-related activity shall occur on Sunday or any Federal Holiday.

18. Public Works - Implement Bay Area Air Quality Management District (BAAQMD)-Recommended Measures during Construction. For all proposed projects, BAAQMD recommends implementing all the Basic Construction Mitigation Measures, listed below to meet the best management practices threshold for fugitive dust:

H. All exposed surfaces (e.g., parking areas, staging areas, soil piles, graded areas, and unpaved access roads) shall be watered two times per day.
I. All haul trucks transporting soil, sand, or other loose material off-site shall be covered.
J. All visible mud or dirt track-out onto adjacent public roads shall be removed using wet power vacuum street sweepers at least once per day. The use of dry power sweeping is prohibited.
K. All vehicle speeds on unpaved roads shall be limited to 15 mph.
L. All roadways, driveways, and sidewalks to be paved shall be completed as soon as possible. Building pads shall be laid as soon as possible after grading unless seeding or soil binders are used.
M. Idling times shall be minimized either by shutting equipment off when not in use or reducing the maximum idling time to 5 minutes (as required by the California airborne toxics control measure Title 13, Section 2485 of California Code of Regulations [CCR]). Clear signage shall be provided for construction workers at all access points.
N. All construction equipment shall be maintained and properly tuned in accordance with manufacturer specifications. All equipment shall be checked by a certified visible emissions evaluator.
O. Post a publicly visible sign with the telephone number and person to contact at the lead agency regarding dust complaints. This person shall respond and take corrective action within 48 hours. The Air District's phone number shall also be visible to ensure compliance with applicable regulations.

19. Air Quality - Diesel Particulate Matter Controls during Construction. All off-road construction equipment used for projects with construction lasting more than 2 months shall comply with one of the following measures:

P. The project applicant shall prepare a health risk assessment that demonstrates the project's on-site emissions of diesel particulate matter during construction will not exceed health risk screening criteria after a screening-level health risk assessment is conducted in accordance with current guidance from BAAQMD and OEHHA. The health risk assessment shall be submitted to the Land Use Planning Division for review and approval prior to the issuance of building permits; or
Q. All construction equipment shall be equipped with Tier 2 or higher engines and the most effective Verified Diesel Emission Control Strategies (VDECS) available for the engine type (Tier 4 engines automatically meet this requirement) as certified by the California Air Resources Board (CARB). The equipment shall be properly maintained and tuned in accordance with manufacturer specifications.
R. In addition, a Construction Emissions Minimization Plan (Emissions Plan) shall be prepared that includes the following:

i. An equipment inventory summarizing the type of off-road equipment required for each phase of construction, including the equipment manufacturer, equipment identification number, engine model year, engine certification (tier rating), horsepower, and engine serial number. For all VDECS, the equipment inventory shall also include the technology type, serial number, make, model, manufacturer, CARB verification number level, and installation date.
ii. A Certification Statement that the Contractor agrees to comply fully with the Emissions Plan and acknowledges that a significant violation of the Emissions Plan shall constitute a material breach of contract. The Emissions Plan shall be submitted to the Public Works Department for review and approval prior to the issuance of building permits.

20. Construction and Demolition Diversion. Divert debris according to your plan and collect required documentation. Get construction debris receipts from sorting facilities in order to verify diversion requirements. Upload recycling and disposal receipts if using Green Halo and submit online for City review and approval prior to final inspection. Alternatively, complete the second page of the original Construction Waste Management Plan and present it, along with your construction debris receipts, to the Building Inspector by the final inspection to demonstrate diversion rate compliance. The Zoning Officer may request summary reports at more frequent intervals, as necessary to ensure compliance with this requirement.

21. Low-Carbon Concrete. The project shall maintain compliance with the Berkeley Green Code (BMC Chapter 19.37) including use of concrete mix design with a cement reduction of at least 25%. Documentation on concrete mix design shall be available at all times at the construction site for review by City Staff.

22. Transportation Construction Plan. The applicant and all persons associated with the project are hereby notified that a Transportation Construction Plan (TCP) is required for all phases of construction, particularly for the following activities:

- Alterations, closures, or blockages to sidewalks, pedestrian paths or vehicle travel lanes (including bicycle lanes);
- Storage of building materials, dumpsters, debris anywhere in the public ROW;
- Provision of exclusive contractor parking on-street; or

- Significant truck activity.

The applicant shall secure the City Traffic Engineer's approval of a TCP. Please contact the Office of Transportation at 981-7010, or 1947 Center Street, and ask to speak to a traffic engineer. In addition to other requirements of the Traffic Engineer, this plan shall include the locations of material and equipment storage, trailers, worker parking, a schedule of site operations that may block traffic, and provisions for traffic control. The TCP shall be consistent with any other requirements of the construction phase.

Contact the Permit Service Center (PSC) at 1947 Center Street or 981-7500 for details on obtaining Construction/No Parking Permits (and associated signs and accompanying dashboard permits). Please note that the Zoning Officer and/or Traffic Engineer may limit off-site parking of construction-related vehicles if necessary to protect the health, safety or convenience of the surrounding neighborhood. A current copy of this Plan shall be available at all times at the construction site for review by City Staff.

23. Avoid Disturbance of Nesting Birds. Initial site disturbance activities, including vegetation and concrete removal, shall be prohibited during the general avian nesting season (February 1 to August 30), if feasible. If nesting season avoidance is not feasible, the applicant shall retain a qualified biologist to conduct a preconstruction nesting bird survey to determine the presence/absence, location, and activity status of any active nests on or adjacent to the project site. The extent of the survey buffer area surrounding the site shall be established by the qualified biologist to ensure that direct and indirect effects to nesting birds are avoided. To avoid the destruction of active nests and to protect the reproductive success of birds protected by the MBTA and CFGC, nesting bird surveys shall be performed not more than 14 days prior to scheduled vegetation and concrete removal. In the event that active nests are discovered, a suitable buffer (typically a minimum buffer of 50 feet for passerines and a minimum buffer of 250 feet for raptors) shall be established around such active nests and no construction shall be allowed inside the buffer areas until a qualified biologist has determined that the nest is no longer active (e.g., the nestlings have fledged and are no longer reliant on the nest). No ground-disturbing activities shall occur within this buffer until the qualified biologist has confirmed that breeding/nesting is completed and the young have fledged the nest. Nesting bird surveys are not required for construction activities occurring between August 31 and January 31.

24. Archaeological Resources (*Ongoing throughout demolition, grading, and/or construction*). Pursuant to CEQA Guidelines section 15064.5(f), "provisions for historical or unique archaeological resources accidentally discovered during construction" should be instituted. Therefore:

A. In the event that any prehistoric or historic subsurface cultural resources are discovered during ground disturbing activities, all work within 50 feet of the resources shall be halted and the project applicant and/or lead agency shall consult with a qualified archaeologist, historian or paleontologist to assess the significance of the find.
B. If any find is determined to be significant, representatives of the project proponent and/or lead agency and the qualified professional will meet to determine the appropriate avoidance measures or other appropriate measure, with the ultimate determination to be made by the City of Berkeley. All significant cultural materials recovered shall be subject to scientific analysis, professional museum curation, and/or a report prepared by the qualified professional according to current professional standards.

Project Title:

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PARKS, RECREATION & WATERFRONT DEPARTMENT
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C. In considering any suggested measure proposed by the qualified professional, the project applicant shall determine whether avoidance is necessary or feasible in light of factors such as the uniqueness of the find, project design, costs, and other considerations.
D. If avoidance is unnecessary or infeasible, other appropriate measures (e.g., data recovery) shall be instituted. Work may proceed on other parts of the project site while mitigation measures for cultural resources is carried out.
E. If significant materials are recovered, the qualified professional shall prepare a report on the findings for submittal to the Northwest Information Center.

25. Human Remains (*Ongoing throughout demolition, grading, and/or construction*). In the event that human skeletal remains are uncovered at the project site during ground-disturbing activities, all work shall immediately halt and the Alameda County Coroner shall be contacted to evaluate the remains, and following the procedures and protocols pursuant to Section 15064.5 (e)(1) of the CEQA Guidelines. If the County Coroner determines that the remains are Native American, the City shall contact the California Native American Heritage Commission (NAHC), pursuant to subdivision (c) of Section 7050.5 of the Health and Safety Code, and all excavation and site preparation activities shall cease within a 50-foot radius of the find until appropriate arrangements are made. If the agencies determine that avoidance is not feasible, then an alternative plan shall be prepared with specific steps and timeframe required to resume construction activities. Monitoring, data recovery, determination of significance and avoidance measures (if applicable) shall be completed expeditiously.

26. Paleontological Resources (*Ongoing throughout demolition, grading, and/or construction*). In the event of an unanticipated discovery of a paleontological resource during construction, excavations within 50 feet of the find shall be temporarily halted or diverted until the discovery is examined by a qualified paleontologist (per Society of Vertebrate Paleontology standards [SVP 1995,1996]). The qualified paleontologist shall document the discovery as needed, evaluate the potential resource, and assess the significance of the find. The paleontologist shall notify the appropriate agencies to determine procedures that will be followed before construction is allowed to resume at the location of the find. If the City determines that avoidance is not feasible, the paleontologist shall prepare an excavation plan for mitigating the effect of the project on the qualities that make the resource important, and such plan shall be implemented. The plan shall be submitted to the City for review and approval.

27. Halt Work/Unanticipated Discovery of Tribal Cultural Resources. In the event that cultural resources of Native American origin are identified during construction, all work within 50 feet of the discovery shall be redirected. The project applicant and project construction contractor shall notify the City Planning Department within 24 hours. The City will again contact any tribes who have requested consultation under AB 52, as well as contact a qualified archaeologist, to evaluate the resources and situation and provide recommendations. If it is determined that the resource is a tribal cultural resource and thus significant under CEQA, a mitigation plan shall be prepared and implemented in accordance with State guidelines and in consultation with Native American groups. If the resource cannot be avoided, additional measures to avoid or reduce impacts to the resource and to address tribal concerns may be required.

28. Stormwater Requirements. The applicant shall demonstrate compliance with the requirements of the City's National Pollution Discharge Elimination System (NPDES) permit as described in BMC Section 17.20. The following conditions apply:

A. The project plans shall identify and show site-specific Best Management Practices (BMPs) appropriate to activities conducted on-site to limit to the maximum extent practicable the discharge of pollutants to the City's storm drainage system, regardless of season or weather conditions.
B. Trash enclosures and/or recycling area(s) shall be covered; no other area shall drain onto this area. Drains in any wash or process area shall not discharge to the storm drain system; these drains should connect to the sanitary sewer. Applicant shall contact the City of Berkeley and EBMUD for specific connection and discharge requirements. Discharges to the sanitary sewer are subject to the review, approval and conditions of the City of Berkeley and EBMUD.
C. Landscaping shall be designed with efficient irrigation to reduce runoff, promote surface infiltration and minimize the use of fertilizers and pesticides that contribute to stormwater pollution. Where feasible, landscaping should be designed and operated to treat runoff. When and where possible, xeriscape and drought tolerant plants shall be incorporated into new development plans.
D. Design, location and maintenance requirements and schedules for any stormwater quality treatment structural controls shall be submitted to the Department of Public Works for review with respect to reasonable adequacy of the controls. The review does not relieve the property owner of the responsibility for complying with BMC Chapter 17.20 and future revisions to the City's overall stormwater quality ordinances. This review shall be shall be conducted prior to the issuance of a Building Permit.
E. All paved outdoor storage areas must be designed to reduce/limit the potential for runoff to contact pollutants.
F. All on-site storm drain inlets/catch basins must be cleaned at least once a year immediately prior to the rainy season. The property owner shall be responsible for all costs associated with proper operation and maintenance of all storm drainage facilities (pipelines, inlets, catch basins, outlets, etc.) associated with the project, unless the City accepts such facilities by Council action. Additional cleaning may be required by City of Berkeley Public Works Engineering Dept.
G. All private or public projects that create and/or replace 5,000 square feet or more of impervious surface must comply with Provision C.3 of the Alameda County NPDES permit and must incorporate stormwater controls to enhance water quality. Permit submittals shall include a Stormwater Requirement Checklist and detailed information showing how the proposed project will meet Provision C.3 stormwater requirements, including a) Site design measures to reduce impervious surfaces, promote infiltration, and reduce water quality impacts; b) Source Control Measures to keep pollutants out of stormwater runoff; c) Stormwater treatment measures that are hydraulically sized to remove pollutants from stormwater; d) an O & M (Operations and Maintenance) agreement for all stormwater treatment devices and installations; and e) Engineering calculations for all stormwater devices (both mechanical and biological).
H. All on-site storm drain inlets must be labeled "No Dumping – Drains to Bay" or equivalent using methods approved by the City.
I. Most washing and/or steam cleaning must be done at an appropriately equipped facility that drains to the sanitary sewer. Any outdoor washing or pressure washing must be managed in such a way that there is no discharge or soaps or other pollutants to the storm drain. Sanitary connections are subject to the review, approval and conditions of the sanitary district with jurisdiction for receiving the discharge.

J. Sidewalks and parking lots shall be swept regularly to prevent the accumulation of litter and debris. If pressure washed, debris must be trapped and collected to prevent entry to the storm drain system. If any cleaning agent or degreaser is used, wash water shall not discharge to the storm drains; wash waters should be collected and discharged to the sanitary sewer. Discharges to the sanitary sewer are subject to the review, approval and conditions of the sanitary district with jurisdiction for receiving the discharge.
K. The applicant is responsible for ensuring that all contractors and sub-contractors are aware of and implement all stormwater quality control measures. Failure to comply with the approved construction BMPs shall result in the issuance of correction notices, citations, or a project stop work order.

29. Public Works. All piles of debris, soil, sand, or other loose materials shall be covered at night and during rainy weather with plastic at least one-eighth millimeter thick and secured to the ground.

30. Public Works. The applicant shall ensure that all excavation takes into account surface and subsurface waters and underground streams so as not to adversely affect adjacent properties and rights-of-way.

31. Public Works. The project sponsor shall maintain sandbags or other devices around the site perimeter during the rainy season to prevent on-site soils from being washed off-site and into the storm drain system. The project sponsor shall comply with all City ordinances regarding construction and grading.

32. Public Works. Prior to any excavation, grading, clearing, or other activities involving soil disturbance during the rainy season the applicant shall obtain approval of an erosion prevention plan by the Building and Safety Division and the Public Works Department. The applicant shall be responsible for following these and any other measures required by the Building and Safety Division and the Public Works Department.

33. Public Works. The removal or obstruction of any fire hydrant shall require the submission of a plan to the City's Public Works Department for the relocation of the fire hydrant during construction.

34. Public Works / Building and Safety. If underground utilities leading to adjacent properties are uncovered and/or broken, the contractor involved shall immediately notify the Public Works Department and the Building & Safety Division, and carry out any necessary corrective action to their satisfaction.

Prior to Final Inspection or Issuance of Occupancy Permit:

35. Compliance with Conditions. The project shall conform to the plans and statements in the Use Permit. The developer is responsible for providing sufficient evidence to demonstrate compliance with the requirements throughout the implementation of this Use Permit.

36. Compliance with Approved Plan. The project shall conform to the plans and statements in the Use Permit. All landscape, site and architectural improvements shall be completed per the

attached approved drawings dated August 18, 2023, except as modified by conditions of approval.

At All Times:

37. Exterior Lighting. All exterior lighting shall be energy efficient where feasible; and shielded and directed downward and away from property lines to prevent excessive glare beyond the subject property.

38. Drainage Patterns. The applicant shall establish and maintain drainage patterns that do not adversely affect adjacent properties and rights-of-way. Drainage plans shall be submitted for approval of the Building & Safety Division and Public Works Department, if required.

39. Loading. All loading/unloading activities associated with deliveries to all uses shall be restricted to the hours of 7:00 a.m. to 10:00 p.m. daily.

Project Title:

CITY OF BERKELEY
PARKS, RECREATION & WATERFRONT DEPARTMENT
MLK JR. YOUTH SERVICES CENTER / YAP SEISMIC RETROFIT AND RENOVATION
1730 Oregon Street, Berkeley, CA 94703
APN#: 053-1676-001-02

Design Firm:
SIEGEL & STRAIN Architects
6201 Doyle Street, Suite B
Emeryville, CA 94608
TEL 510 / 547-8092
info@siegelstrain.com

Consultant:

Stamp:

LICENSED ARCHITECT
KAREN RICHARDS
No. C-32146
Exp: 08-31-25
STATE OF CALIFORNIA

No.	Description	Date
	PERMIT SET	12/04/24

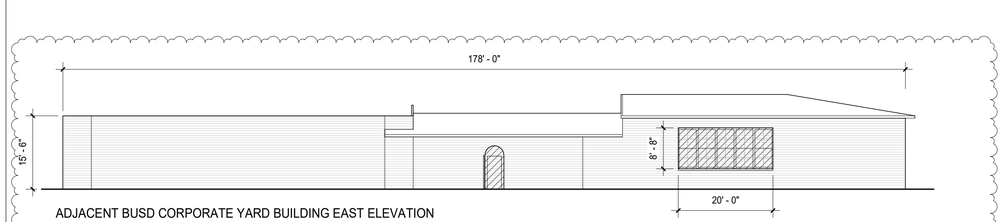
Issue Note: PERMIT RESUBMITTAL 03/07/25

City Plan No.:	8286
City File No.:	402-145
Specification No.:	#25-11695-C
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Plot Date:	
Scale:	

Sheet Title:
ZONING PERMIT CONDITIONS

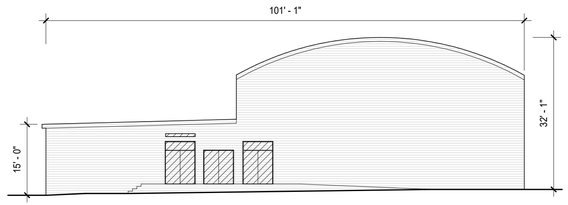
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ADJACENT BUSD CORPORATE YARD BUILDING EAST ELEVATION

AREA OF WALL:	2,522 SF	EXTERIOR WALL CONSTRUCTION:	MASONRY BEARING WALLS ASSUMED TYPE III-B, 1-HOUR FIRE-RESISTANCE RATING, UNPROTECTED OPENINGS, NONSPRINKLERED
AREA OF WALL OPENINGS:	208 SF		
% WALL OPENING:	8.2%		
MAX ALLOWABLE % OPENING:	10%, FOR FSD 5'-0" TO <10'-0"		
ASSUMED FIRE SEPARATION DISTANCE:	5'-0"		



MLK JR YOUTH SERVICES CENTER BUILDING WEST ELEVATION

AREA OF WALL:	2,416 SF	EXTERIOR WALL CONSTRUCTION:	WOOD FRAMED CONSTRUCTION TYPE V-B, 0-HOUR FIRE-RESISTANCE RATING
AREA OF WALL OPENINGS:	164 SF		
% WALL OPENING:	6.79%		
MAX ALLOWABLE % OPENING:	N/A FOR NON-RATED EXTERIOR WALLS		
REQ'D FIRE SEPARATION DISTANCE:	MIN. 10' FOR NON-RATED EXTERIOR WALLS		
PROPOSED FIRE SEPARATION DISTANCE:	MIN. 11' - 6"		

1 G0.05 FIRE SEPARATION DISTANCE CALCULATION

1/16" = 1'-0"

APPLICABLE CODES

2022 CALIFORNIA BUILDING CODE (CBC)
2022 CALIFORNIA EXISTING BUILDING CODE
2022 CALIFORNIA PLUMBING CODE
2022 CALIFORNIA MECHANICAL CODE
2022 CALIFORNIA ELECTRICAL CODE
2022 CALIFORNIA ENERGY CODE
2022 CALIFORNIA FIRE CODE
2022 CALIFORNIA GREEN BUILDING STANDARDS CODE
2010 ADA STANDARDS FOR ACCESSIBLE DESIGN
2010 NATIONAL FIRE PROTECTION ASSOCIATION 1141 & 1144
2022 CALIFORNIA REFERENCED STANDARDS CODE

CITY OF BERKELEY MUNICPAL CODES AND OTHER APPLICABLE STATE AND LOCAL ORDINANCES AND REGULATIONS.

ABBREVIATIONS

AG	ALL GENDER
EXC	EXCEPTION
DIST	DISTANCE
MAX	MAXIMUM
N/A	NOT APPLICABLE
NR	NOT RATED
OCC	OCCUPANT/ OCCUPANCY
SEC	SECTION

BUILDING CODE SUMMARY

OCCUPANCY — SEC 508.3

THE BUILDING IS CLASSIFIED AS NONSEPARATED MULTI-OCCUPANCY WITH THE FOLLOWING OCCUPANCIES:

OCCUPANCY CLASSIFICATION	FUNCTION OF SPACE	
		TABLE 1004.5
A-3 (ASSEMBLY)	COMMUNITY ROOMS, LOUNGE, LOBBY, HALLWAYS, GYMNASIUM	SEC 303.4
B (BUSINESS)	MUSIC BOOTH, SOUND ENGINEERING ROOM, KITCHEN, COMPUTER ROOM, CONFERENCE ROOM, OFFICES, ACCESSORY STORAGE AREAS	SEC 304.1
S-2 (STORAGE)	UTILITY ROOMS, ELECTRICAL ROOM	SEC 312.1

CONSTRUCTION TYPE — TYPE V-B, SPRINKLERED — TABLE 601

FIRE PROTECTION SYSTEMS

AUTOMATIC SPRINKLER SYSTEM	REQUIRED	SEC 903.2.1.3
STANDPIPE SYSTEM	NOT REQUIRED	SEC 905.3
FIRE DEPARTMENT CONNECTION	REQUIRED	SEC 912.1
FIRE ALARM:		
MANUAL	REQUIRED	SEC 907.2
VISIBLE & AUDIBLE	REQUIRED	SEC 907.5

ALLOWABLE AREA CALCULATIONS — SEC 508.3.2

NONSEPARATED, MIXED-OCCUPANCY ALLOWABLE AREA BASED ON AREA OF MOST RESTRICTIVE OCCUPANCY GROUP (A-3)

AREA INCREASE: N/A

BUILDING HEIGHT & AREA

	ALLOWABLE	EXISTING	PROPOSED	
HEIGHT	40'-0"	27'-4"	27'-4"	TABLE 504.3
NO. STORIES	1	1	1	TABLE 504.4
AREA (PER FLOOR)	24,000 SF	10,655 SF	11,550 SF	TABLE 506.2

EXTERIOR WALL RATING — TABLE 705.5

FIRE SEPARATION DISTANCE PER CONSTRUCTION TYPE

DISTANCE	REQ'D RATING
0 FT < X < 5 FT =	1 HR (NOT APPLICABLE)
5 FT ≤ X < 10 FT =	1 HR (NOT APPLICABLE)
10 FT ≤ X < 30 FT =	NR
30 FT ≤ X =	NR

MAXIMUM AREA OF EXTERIOR WALL OPENINGS — SEC 705.8.1 EXC 2

BUILDINGS WHOSE EXTERIOR BEARING WALLS, EXTERIOR NONBEARING WALLS AND EXTERIOR PRIMARY STRUCTURAL FRAME ARE NOT REQUIRED TO BE FIRE-RESISTANCE RATED SHALL BE PERMITTED TO HAVE UNLIMITED UNPROTECTED OPENINGS

FIRE RESISTANCE RATING BY ELEMENT BASED ON CONSTRUCTION TYPE (TYPE V-B) — TABLE 601

PRIMARY STRUCTURAL FRAME:	0 HR
EXTERIOR BEARING WALLS:	0 HR
INTERIOR BEARING WALLS:	0 HR
EXTERIOR NON-BEARING WALLS:	1 HR (IF FIRE SEPARATION DISTANCE < 10 FT)
INT NON-BEARING PARTITIONS:	0 HR
FLOOR CONSTRUCTION:	0 HR
ROOF CONSTRUCTION:	0 HR

MEANS OF EGRESS

MINIMUM EXIT WIDTHS, DOORS AND HALLWAYS	0.2" PER OCCUPANT	SEC 1005.3.1
DOORS	32" MINIMUM CLEAR WIDTH FOR DOORS	SEC 1010.1.1

SPACES WITH ONE EXIT OR EXIT ACCESS DOORWAY (PERMITTED FOR EITHER CONDITION): — TABLE 1006.2.1

	MAX OCC LOAD	MAX COMMON PATH OF TRAVEL (W/ SPRINKLER SYSTEM)
A-3 OCCUPANCY:	49	75'-0"
B OCCUPANCY:	49	100'-0"
S OCCUPANCY:	29	100'-0"

TWO EXITS OR MORE REQUIRED — SEC 1006.2.1

TWO EXITS REQUIRED FOR SPACES WITH OCCUPANT LOADS LESS THAN 500

EXIT ACCESS TRAVEL DISTANCE — TABLE 1017.2

A-3, S-1 OCCUPANCY:	250' (W/ SPRINKLER SYSTEM)
B OCCUPANCY:	300' (W/ SPRINKLER SYSTEM)

SEPARATION OF EXITS — SEC 1007.1.1

SEPARATE BY 1/3 MAX. DIAGONAL OF AREA SERVED AT BUILDING WITH SPRINKLERS

CORRIDOR DEAD ENDS — SEC 1020.5

A-3 OCCUPANCY:	20'-0"
B, S OCCUPANCY:	50'-0"

EGRESS ACCESSIBILITY — SEC 1009.3.3 EX 2

AREA OF REFUGE — NOT REQUIRED

FIRE EXTINGUISHERS — SEC 906.1, TABLE 906.3(1), SEC 906.4

PORTABLE FIRE EXTINGUISHERS ARE REQUIRED
CLASS A, LIGHT HAZARD OCC - MAX DIST OF TRAVEL TO EXTINGUISHER 75'
CLASS K AT COOKING EQUIPMENT - MAX DIST OF TRAVEL TO EXTINGUISHER 30'

WALL, FLOOR AND CEILING FLAME SPREAD CLASSIFICATION BASED ON OCCUPANCY — SEC 906.1, TABLE 906.3(1), SEC 906.4

A-3 OCCUPANCY	INTERIOR EXIT STAIRWAY / RAMPS, EXIT PASSAGEWAYS,	CLASS B
	CORRIDORS AND ENCLOSURES FOR EXIT ACCESS STAIRWAYS / RAMPS	CLASS B
	ROOMS AND ENCLOSED SPACES	CLASS C
B OCCUPANCY	INTERIOR EXIT STAIRWAY / RAMPS, EXIT PASSAGEWAYS,	CLASS B
	CORRIDORS AND ENCLOSURES FOR EXIT ACCESS STAIRWAYS / RAMPS	CLASS C
	ROOMS AND ENCLOSED SPACES	CLASS C

PLUMBING FIXTURES

COMBINED OCCUPANT LOAD — CPC TABLE 4-1

OCC CLASS	OCCUPANCY AREA	OCCUPANT LOAD FACTOR	OCCUPANTS MEN	OCCUPANTS WOMEN
A3	7,985	30	133	133
B	1,469	150	5	5
B (KITCHEN)	380	50	4	4

FIXTURES CALCULATION — CPC TITLE 24, PT 5 TABLE 422.1

	WATER CLOSETS M	WATER CLOSETS F	WATER CLOSETS AG	URINALS	LAVATORIES M	LAVATORIES F	LAVATORIES AG	DRINKING FOUNTAINS
REQUIRED								
A-3	1.33	3.33		1.33	0.67	1.33		1.06
B	0.1	0.33		0.05	0.07	0.10		0.07
B (KITCHEN)	0.08	0.27		0.04	0.05	0.08		0.05
SUBTOTAL	1.51	3.93		1.42	0.79	1.51		1.18
ROUNDED	2	4		2	1	2		2
TOTAL REQUIRED	6			2	3			2
PROVIDED								
SUBTOTAL	1	3	2		2	2	2	
TOTAL PROVIDED	6			2	6			2

Project Title:

CITY OF BERKELEY
PARKS, RECREATION & WATERFRONT DEPARTMENT
MLK JR. YOUTH SERVICES CENTER / YAP SEISMIC RETROFIT AND RENOVATION
1730 Oregon Street, Berkeley, CA 94703
APN#: 053-1676-001-02

Design Firm:
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TEL 510 / 547-8092
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Consultant:

Stamp:

LICENSED ARCHITECT
KAREN RICHARDS
No. C-32146
Exp: 08-31-25
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No.	Description	Date
	PERMIT SET	12/04/24
1	PLAN CHECK #1	03/07/25

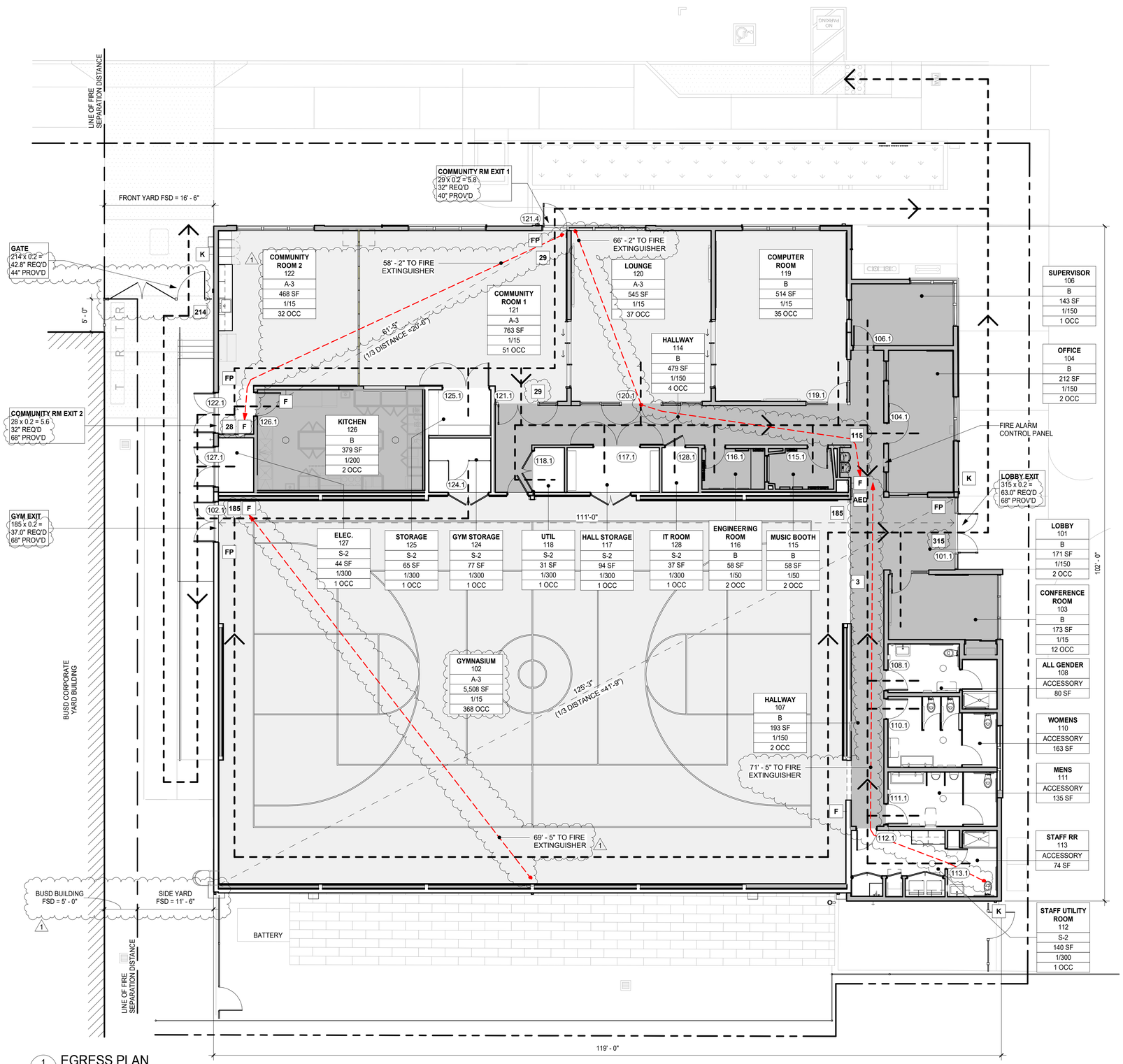
Issue Note: PERMIT RESUBMITTAL 03/07/25

City Plan No.:	8286
City File No.:	402-145
Specification No.:	#25-11695-C
Project ID:	YAP
Drawn by:	HL
Checked by:	KR
Plot Date:	
Scale:	As indicated

Sheet Title: CODE ANALYSIS

Sheet No.: G0.05

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1 G0.06 EGRESS PLAN
1/8" = 1'-0"

LEGEND

ROOM NAME
ROOM NUMBER
OCCUPANCY GROUP

- OCCUPANCY TYPE A
- OCCUPANCY TYPE B
- OCCUPANCY TYPE S / U
- EGRESS PATH OF TRAVEL / ACCESSIBLE PATH OF TRAVEL
- FP — FIRE ALARM PULL STATION
- # OF OCCUPANTS
- K — FIRE DEPARTMENT KNOX BOX
- F / 1 — CLASS A FIRE EXTINGUISHER
- EXIT — ILLUMINATED EXIT SIGN
- AED — AUTOMATED EXTERNAL DEFIBRILLATOR
- MAX. # PERSONS — PROVIDE OCCUPANCY SIGN
- 101A — DOOR TAG
- 9'-0" (1/3 DISTANCE =3'-0") — SPACE DIAGONAL MEASUREMENT
- 9'-0" BTW EXITS — DISTANCE BETWEEN EXITS

OCCUPANCY SCHEDULE

ROOM NO.	ROOM/SPACE	AREA	OCCUPANT LOAD
101	LOBBY	171 SF	2
102	GYMNASIUM	5,508 SF	375
103	CONFERENCE ROOM	173 SF	11
104	OFFICE	212 SF	2
106	SUPERVISOR	143 SF	1
107	HALLWAY	193 SF	2
108	ALL GENDER	80 SF	0
109	SHOWER	40 SF	0
110	WOMENS	163 SF	0
111	MENS	135 SF	0
112	STAFF UTILITY ROOM	140 SF	1
113	STAFF RR	74 SF	0
114	HALLWAY	479 SF	4
115	MUSIC BOOTH	58 SF	2
116	ENGINEERING ROOM	58 SF	2
117	HALL STORAGE	94 SF	1
118	UTIL	31 SF	1
119	COMPUTER ROOM	514 SF	35
120	LOUNGE	545 SF	37
121	COMMUNITY ROOM 1	763 SF	52
122	COMMUNITY ROOM 2	468 SF	34
124	GYM STORAGE	77 SF	1
125	STORAGE	65 SF	1
126	KITCHEN	379 SF	2
127	ELEC.	44 SF	1
128	IT ROOM	37 SF	1

N

0 4 8 16 ft.

Project Title:

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PARKS, RECREATION & WATERFRONT DEPARTMENT
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Stamp:

LICENSED ARCHITECT
KAREN RICHARDS
No. C-32148
Exp: 08-31-25
STATE OF CALIFORNIA

No.	Description	Date
	PERMIT SET	12/04/24
1	PLAN CHECK #1	03/07/25

Issue Note: PERMIT RESUBMITTAL 03/07/25

City Plan No.:	8286
City File No.:	402-145
Specification No.:	#25-11695-C
Project ID:	YAP
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Plot Date:	
Scale:	As indicated

Sheet Title: EGRESS PLAN

Sheet No.: G0.06

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Form #165

Code Compliance Checklist
CALGREEN NON-RESIDENTIAL

Building and Safety
Permit Service Center

Projects for new buildings, additions of 1,000 square feet or greater and/or building alterations with a permit valuation of $200,000 or above are subject to the provisions of the California Green Building Standards Code. This checklist is provided by the City of Berkeley in order to demonstrate compliance with the code and facilitate permit approval.

Instructions:

1. Read and understand the requirements of all mandatory measures listed in this checklist.
2. Mark all mandatory measures that are applicable to the proposed project.
3. Coordinate the construction drawings with the mandatory measures.
4. Incorporate this checklist into the submitted set of construction drawings on full sized sheets.

Building and Safety
1947 Center St, 3rd floor
Berkeley, CA 94704
510-981-7440 TTY 6903
buildingandsafety@berkeleyca.gov

Project Information Permit Number:

Project Address: 1730 Oregon St., Berkeley, CA 94703

Select One: ☐ New Building [N] ☐ Addition [A] ☑ Alteration

Planning and Design

☑ **Storm water pollution prevention.** Projects which disturb less than one acre of land shall prevent the pollution of stormwater runoff from the construction activities through one or more of the following measures: [CGBSC 5.106.1]

- **Stormwater management.** Comply with the Stormwater management and erosion control requirements per Title 17 of the City of Berkeley Municipal Code. [CGBSC 5.106.1.1]
- **Best management practices (BMP)**. Prevent the loss of soil through wind or water erosion by implementing an effective combination of erosion and sediment control and good housekeeping BMP. [CGBSC 5.106.1.2]
- **Grading and paving.** Indicate how site grading or drainage system will manage all surface water flows to keep water from entering buildings. [CGBSC 5.106.1.10]

N/A **Bicycle Parking.** Projects adding 10 or more vehicular parking spaces shall comply with the the following or meet the applicable City of Berkeley ordinance, whichever is stricter. [CGBSC 5.106.4.1]

- **Short-term bicycle parking.** Provide permanently anchored bicycle racks within 200 feet of the visitors' entrance, readily visible to passers-by, for 5-percent of new visitor motorized vehicle parking spaces being added, with a minimum of one two-bike capacity rack. [CGBSC 5.106.4.1.1]
- **Long-term bicycle parking.** Provide secure bicycle parking for 5-percent of the tenant vehicular parking spaces being added, with a minimum of one space. [CGBSC 5.106.4.1.2]

Electric Vehicle Charging

Definitions

ELECTRIC VEHICLE (EV) CAPABLE SPACE. A vehicle space with electrical panel space and load capacity to support a branch circuit and necessary raceways, both underground and/or surface mounted, to support EV charging.

ELECTRIC VEHICLE (EV) CHARGER. Off-board charging equipment used to charge an electric vehicle.

ELECTRIC VEHICLE CHARGING SPACE (EV SPACE). A space intended for future installation of EV charging equipment and charging of electric vehicles.

ELECTRIC VEHICLE (EV) READY SPACE. [HCD] A vehicle space which is provided with a branch circuit; any necessary raceways, both underground and/or surface mounted; to accommodate EV charging, terminating in a receptacle or a charger.

ELECTRIC VEHICLE CHARGING STATION (EVCS). 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.

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.

Last Revised 05/17/23

Code Compliance Checklist - CALGREEN NON-RESIDENTIAL
Page 2 of 6

N/A **Identification.** The service panel or subpanel circuit directory shall identify the overcurrent protective device "for future EV charging as "EV CAPABLE" and identify the overcurrent protective devices serving EVCS as "EV CHARGER". Raceway termination locations shall be permanently and visibly marked as "EV CAPABLE". [CGBSC 5.106.5.3.1.4]

N/A **Raceways.** Listed raceways and associated conductors shall be sized to accommodate a dedicated 208/240-volt branch circuit for a future EV charger. The raceway shall not be less than nominal 1-inch inside diameter. Raceways shall originate at the main service or subpanel and shall terminate into a listed cabinet, box or other enclosure in close proximity to the proposed location of an EV charger. Construction documents shall identify the raceway termination point. [CGBSC 5.106.5.3.1 and 5.106.5.3.2]

N/A **Electric Vehicle Charging Stations (EVCS).** 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. [CGBSC 5.106.5.3.2]

N/A **EVCS Accessibility / Location.** When EVSE is installed, accessible EVCS 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). [CGBSC 5.106.5.3.4]

EV Spaces

N/A **New Nonresidential Occupancies.** When residential parking is provided: [CGBSC 5.106.5.3 and BMC 19.37.040]

- 20% of spaces shall be EV CAPABLE with RACEWAY, panel service capacity and electrical system sufficient to charge all required spaces at a minimum of 40 amperes.
- 10% of spaces shall be an ELECTRIC VEHICLE CHARGING STATION (EVCS)

Note: Calculation for EV CAPABLE spaces and EVCS shall for CGBSC 5.106.5.3 shall be rounded up to the nearest whole number.

☑ **Light pollution reduction. [N]** Outdoor lighting systems shall be designed and installed to comply with Backlight, Uplight and Glare rating requirements in CALGreen Table 5.106.8 or comply with the City of Berkeley's ordinances, whichever is more stringent. [CGBSC 5.106.8]

Water Efficiency and Conservation

Indoor Water Use: Metering Devices

N/A **New buildings or additions in excess of 50,000 square feet.** Separate sub-meters shall be installed as follows:

- For each individual leased, rented, or other tenant space within the building projected to consume more than 100 gal/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.
- Where separate sub-meters 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.
  b. Makeup water for evaporative coolers greater than 6 gpm.
  c. Steam and hot-water boilers with energy input more than 500,000 Btu/h.

N/A **Excess consumption. [N]** A separate sub-meter 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. [CGBSC 5.303.1.2]

Indoor Water Use: Water Conservation

☑ **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 US EPA WaterSense Specification for Tank-type Toilets. [CGBSC 5.303.3.1]

Urinals

☑ **Wall-mounted urinals.** The effective flush volume of wall-mounted urinals shall not exceed 0.125 gallons per flush.[CGBSC 5.303.3.2.1]

N/A **Floor-mounted urinals.** The effective flush volume of floor-mounted or other urinals shall not exceed 0.5 gallons per flush. [CGBSC 5.303.3.2.2]

Showerheads

☑ **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 US EPA WaterSense Specification for Showerheads. [CGBSC 5.303.3.3.1]

N/A **Multiple showerheads serving one shower.** When a shower is served by more than one showerhead, the combined flow rate of all 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. [CGBSC 5.303.3.3.2]

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Faucets and Fountains

☑ **Nonresidential lavatory faucets.** Lavatory faucets shall have a maximum flow rate of not more than 0.5 gallons per minute at 60 psi. [CGBSC 5.303.3.4.1]

☑ **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. [CGBSC 5.303.3.4.2]

N/A **Wash fountains.** Wash fountains shall have a maximum flow rate of not more than 1.8 gallons per minute/20 [rim space (inches) at 60 psi]. [CGBSC 5.303.3.4.3]

N/A **Metering faucets.** Metering faucets shall not deliver more than 0.20 gallons per cycle. [CGBSC 5.303.3.4.4]

N/A **Metering faucets for wash fountains.** Metering faucets for wash fountains shall have a maximum flow rate of not more than 0.20 gallons per cycle/20 [rim space (inches) at 60 psi]. [CGBSC 5.303.3.4.5]

Pre-Rinse Spray Valves

☑ **Pre-rinse spray valves.** When installed shall not exceed the maximum flow rate of CGBSC Table H-2 as a function of product class 1, 2, or 3. [CGBSC 5.303.3.4.6]

Commercial Kitchen Equipment

N/A **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/noload) or shall automatically shut off after no more than 10 minutes of inactivity. Disposers shall use no more than 8 gpm of water. [CGBSC 5.303.4.1]

Outdoor Water Use

N/A **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. [CGBSC 5.304.1]

Note: The Model Water Efficient Landscape Ordinance (MWELO) is located in the California Code of Regulations, Title 23, Chapter 2.7, Division 2.

Material Conservation and Resource Efficiency

Low-carbon Concrete

☑ **Reduction in cement use.** As allowed by the enforcing agency, cement used in concrete mix design shall be reduced not less than 25 percent. Products commonly used to replace cement in concrete mix designs include, but are not limited to fly ash, slag, silica fume, and rice hull ash. [CGBSC 5.405.1 and BMC 19.37.040]

Exception: Minimum cement reductions in concrete mix designs approved by the Engineer of Record may be lower where high early strength is needed for concrete products or to meet an accelerated project schedule.

Water Resistance and Moisture Management

☑ **Sprinklers.** Design and maintain landscape irrigation systems to prevent spray on structures. [CGBSC 5.407.2.1]

☑ **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: [CGBSC 5.407.2.2]

- **Exterior door protection.** Primary exterior entries shall be covered to prevent water intrusion by using non-absorbent floor and wall finishes within at least 2 feet around and perpendicular to such openings plus at least one of the following: [CGBSC 5.407.2.2.1]
  a. An installed awning at least 4 feet in depth.
  b. The door is protected by a roof overhang at least 4 feet in depth.
  c. The door is recessed at least 4 feet.
  d. Other methods which provide equivalent protection.
- **Flashing.** Install flashings integrated with a drainage plane. [CGBSC 5.4.07-2.2.2]

Construction Waste Reduction, Disposal and Recycling

☑ **Construction waste management plan & excavated soil and land clearing debris.** Recycle and/or salvage for reuse a minimum of 65 percent of the nonhazardous construction and demolition waste and a minimum of 100 percent of excavated soil, land-clearing debris, concrete and asphalt. Provide a completed City of Berkeley Construction Waste Management Plan. [CGBSC 5.408.1 and CGBSC 5.408.3 and BMC 19.37.040]

☑ **Universal waste. [A]** Additions and alterations to a building or tenant space shall require verification that Universal Waste items such as flourescent lamps and ballast and mecury containing thermostats as well as other California prohibited Universal Waste materials are disposed of properly and are diverted from landfills. [CGBSC 5.408.2]

Building Maintenance and Operation

☑ **Recycling by occupants.** Provide readily accessible areas that serve the entire building and are identified for

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the depositing, storage and collection of non-hazardous materials for recycling, including (at a minimum) paper, corrugated cardboard, glass, plastics, organic waste, and metals. [CGBSC 5.410.1]

N/A **Additions. [A]** All additions conducted within a 12-month period under single or multiple permits, resulting in an increase of 30 percent or more in floor area, shall provide recycling areas on site. [CGBSC 5.410.1.1]

N/A **Commissioning. [N]** For newly constructed 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 by trained personnel with experience on projects of comparable size and complexity. All building operating systems covered by Title 24, Part 6, California Energy Code as well as process equipment and controls, and renewable energy systems shall be included in the scope of the commissioning requirements. [CGBSC 5.410.2]

N/A **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: [CGBSC 5.410.2.1]

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

N/A **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: [CGBSC 5.410.2.2]

- Heating, ventilation, air conditioning systems and controls
- Indoor lighting system and controls
- Water heating system
- Renewable energy systems
- Landscape irrigation systems
- Water reuse systems

N/A **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: [CGBSC 5.410.2.3]

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

N/A **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, testing methods utilized, and any readings and adjustments made. [CGBSC 5.410.2.4]

N/A **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. [CGBSC 5.410.2.5]

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

☑ **Testing and adjusting.** Testing and adjusting of systems shall be required for newly constructed buildings less than 10,000 square feet, or new systems to serve an addition or alteration, as applicable. [CGBSC 5.410.4]

- HVAC systems and controls
- Indoor and outdoor lighting and controls
- Water heating systems
- Renewable energy systems
- Landscape irrigation systems
- Water reuse systems

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

☑ **HVAC balancing.** In addition to testing and adjusting, before a new space-conditioning system serving a building or space is operated for normal use, balance the system in accordance with the procedures defined by the Testing Adjusting and Balancing Bureau National Standards; the National Environmental Balancing Bureau Procedural

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Standards; Associated Air Balance Council National Standards or as approved by the City of Berkeley. [CGBSC 5.410.3.1]

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

☑ **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. [CGBSC 5.410.4.5]

Environmental Quality

N/A **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 Section 150. [CGBSC 5.503.1]

N/A **Woodstoves.** Woodstove 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. [CGBSC 5.503.1.1]

Pollutant Control: Mechanical Systems

☑ **Temporary ventilation.** The permanent HVAC system shall only be used during construction if necessary to condition the building 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-percent based on ASHRAE 52.1-1992. Replace all filters immediately prior to occupancy, or, if the building is occupied during alteration, at the conclusion of construction. [CGBSC 5.504.1]

☑ **Covering of duct openings & 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 ventilating equipment, all duct and other related air distribution component openings shall be covered with tape, plastic, sheetmetal or other methods acceptable to the City of Berkeley to reduce the amount of dust, water and debris which may enter the system. [CGBSC 5.504.3]

☑ **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. Existing mechanical equipment excepted. [CGBSC 5.504.5.3]

- **Labeling.** Installed filters shall be clearly labeled by the manufacturer indicating the MERV rating. [CGBSC 5.504.5.3.1]

☑ **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 the City of Berkeley, whichever are more stringent. When ordinances, regulations or policies are not in place, post signage to inform building occupants of the prohibitions. [CGBSC 5.504.7]

Pollutant Control: Finish Material

☑ **Adhesives, sealants and caulks.** Adhesives, sealants and caulks used on the project shall comply with CALGreen Table 5.504.4.1 and 5.504.4.2 for VOC limits. Product units which do not weigh more than 1 pound and do not consist of more than 16 fluid ounces shall comply with statewide VOC standards and California Code of Regulations, Title 17. [CGBSC 5.504.4.1]

☑ **Paints and Coatings.** Architectural paints and coatings shall comply with VOC limits in CALGreen Table 5.504.4.3. 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 CALGreen Table 5.504.4.3 shall apply. [CGBSC 5.504.4.3]

☑ **Aerosol paints and coatings.** Aerosol paints and coatings shall meet the PWMIR Limits for ROC in California Code of Regulations, Title 17 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. [CGBSC 5.504.4.3.1]

☑ **Carpet systems.** All carpet and 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 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 All carpet adhesive shall meet the requirements of Table 5.504.4.1. [CGBSC 5.504.4.4]

☑ **Composite wood products.** Hardwood plywood, particleboard and medium density fiberboard composite wood products used on the interior or exterior of the building shall meet the requirements for formaldehyde as shown in

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CALGreen Table 5.504.4.5. [CGBSC 5.504.4.5]

☑ **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 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 [CGBSC 5.504.4.4]

☑ **Carbon Dioxide Monitoring with Demand Control Ventilation.** For buildings or additions equipped with demand control ventilation, CO2 sensors and ventilation controls shall be specified and installed in accordance with the requirements of the California Energy Code 120.1(c)(4). [CGBSC 5.506.2]

Environmental Comfort

☑ **Acoustical Control.** Employ building assemblies and components with Sound Transmission Class (STC) values determined in accordance with ASTM E90 and ASTM E413 or Outdoor-Indoor Sound Transmission Class (OITC) determined in accordance with ASTM E1332, using either the prescriptive or performance method. [CGBSC 5.507.4]

N/A **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 [CGBSC 5.507.4.1]:

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

N/A **Exterior Noise Transmission, Performance Method.** For buildings located as defined in CGBSC 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 (L_{eq}-1Hr) of 50 dBA in occupied areas during any hour of operation. [CGBSC 5.507.4.2]

☑ **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. [CGBSC 5.507.4.3]

Outdoor Air Quality

☑ **Ozone depletion and greenhouse gas reductions.** Installations of HVAC, refrigeration and fire suppression equipment shall comply with the following: [CGBSC 5.508.1]

- **Chlorofluorocarbons (CFCs).** Install HVAC, re-frigeration & fire suppression equipment that do not contain CFCs.
- **Halons.** Install HVAC, refrigeration and fire suppression equipment that do not contain Halons.
- **Supermarket refrigerant leak reduction.** New commercial refrigeration systems containing high-global-warming potential refrigerants (GWP of 150 or greater) installed in retail food stores with 8,000 square feet or more of conditioned area, and that utilize either refrigerated display cases, or walk-in coolers or freezers connected to remote compressor units or condensing units shall comply with refrigerant leak reduction measures. [CGBSC 5.508.2]

Additional:

I certify that I have read and acknowledged all of the Code Requirements noted above. I accept full responsibility for complying with all of the above requirements, as applicable to my project. I further agree that if I fail to comply with the code requirements, due to error or omission, I will correct all deficiencies prior to final inspection.

Name | Signature | Date

Check One: ☐ Contractor ☐ Owner ☐ Owner's Agent

Project Title:

CITY OF BERKELEY
PARKS, RECREATION & WATERFRONT DEPARTMENT
MLK JR. YOUTH SERVICES CENTER / YAP
SEISMIC RETROFIT AND RENOVATION
1730 Oregon Street, Berkeley, CA 94703
APN#: 053-1676-001-02

Design Firm:

SIEGEL & STRAIN Architects
6201 Doyle Street, Suite B
Emeryville, CA 94608
TEL 510 / 547-8092
info@siegelstrain.com

Consultant:

Stamp:

LICENSED ARCHITECT
KAREN RICHARDS
No. C-32146
Exp: 08-31-25
STATE OF CALIFORNIA

No.	Description	Date
	PERMIT SET	12/04/24
1	PLAN CHECK #1	03/07/25

Issue Note: PERMIT RESUBMITTAL 03/07/25

City Plan No.:	8286
City File No.:	402-145
Specification No.:	#25-11695-C
Project ID:	YAP
Drawn by:	HL
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Plot Date:	
Scale:	

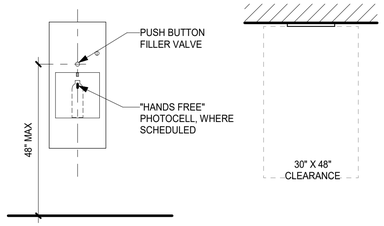
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CALGREEN COMPLIANCE CHECKLIST

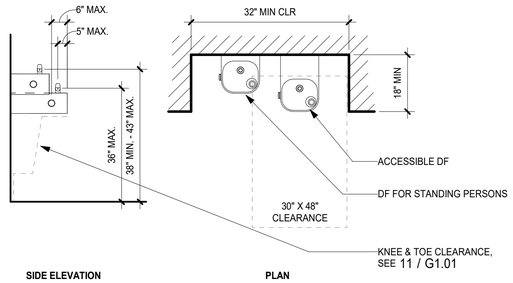
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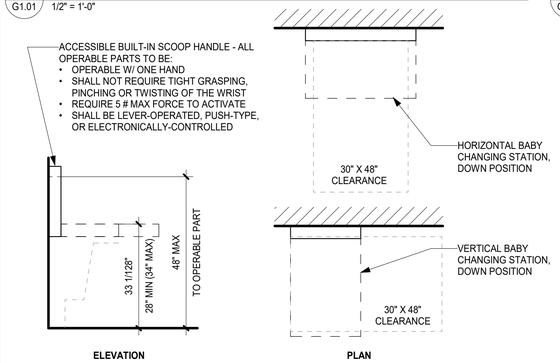
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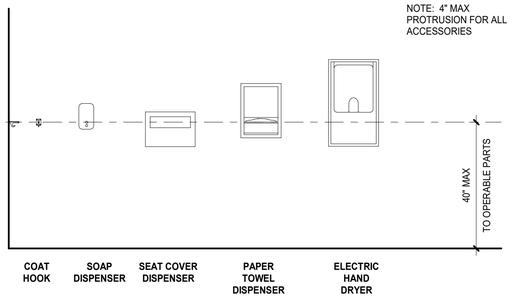
16 G1.01 ACCESSIBLE BOTTLE FILLING STATION
1/2" = 1'-0"



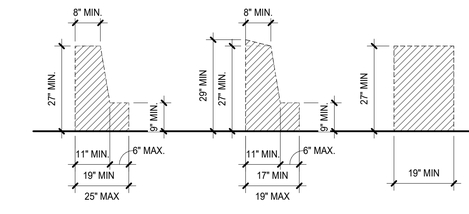
15 G1.01 ACCESSIBLE DRINKING FOUNTAIN
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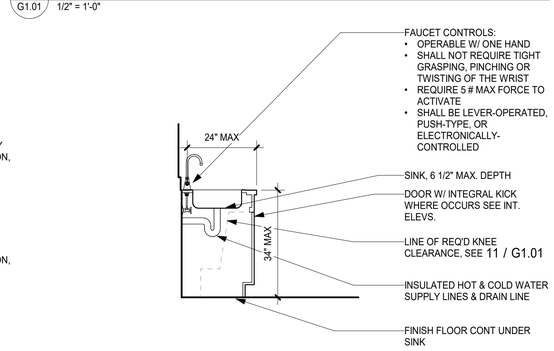
14 G1.01 ACCESSIBLE BABY CHANGING STATION
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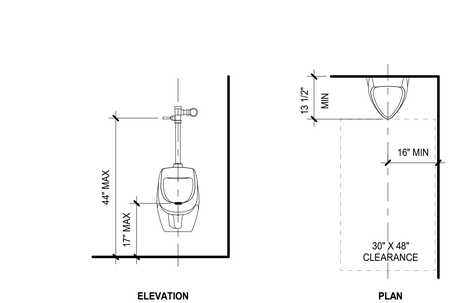
13 G1.01 ACCESSIBLE RESTROOM ACCESSORIES
1/2" = 1'-0"



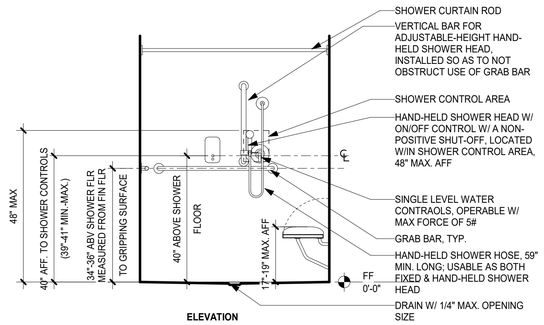
11 G1.01 KNEE AND TOE CLEARANCES
1/2" = 1'-0"



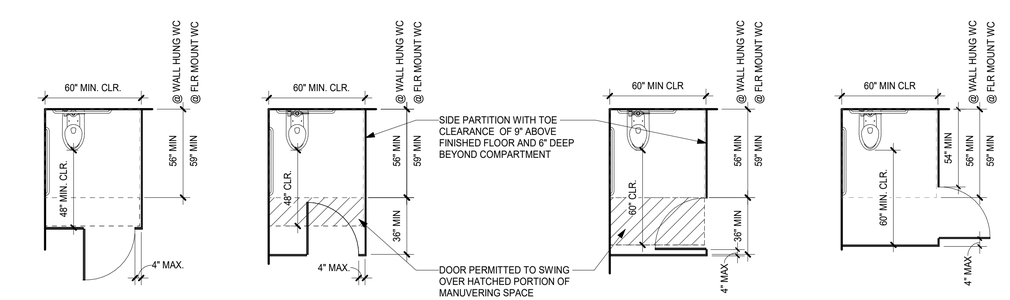
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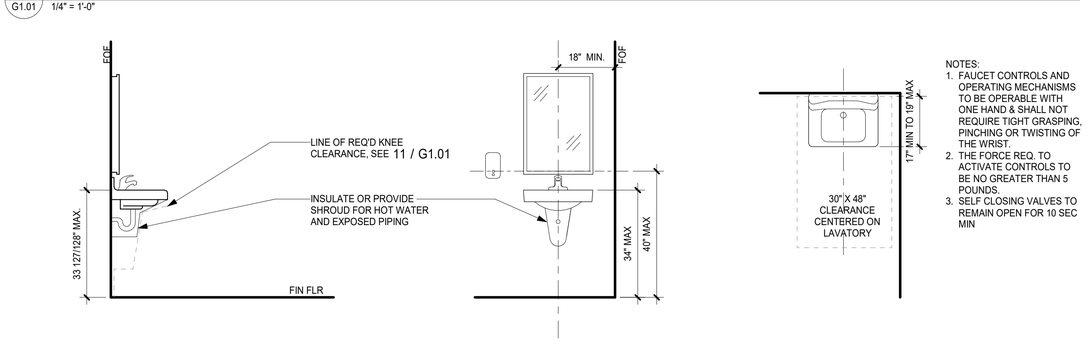
9 G1.01 ACCESSIBLE URINAL
1/2" = 1'-0"



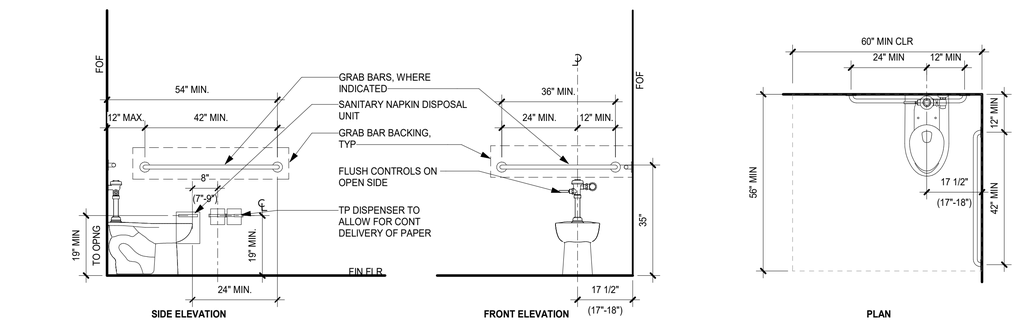
8 G1.01 ACCESSIBLE SHOWER COMPARTMENT & ACCESSORIES
1/2" = 1'-0"



7 G1.01 ACCESSIBLE TOILET COMPARTMENT PLANS
1/4" = 1'-0"



6 G1.01 ACCESSIBLE WALL HUNG LAVATORY PLAN & ELEVATIONS
1/2" = 1'-0"



5 G1.01 ACCESSIBLE WATER CLOSET PLAN & ELEVATIONS
1/2" = 1'-0"

Project Title:

CITY OF BERKELEY
PARKS, RECREATION & WATERFRONT DEPARTMENT
MLK JR. YOUTH SERVICES CENTER / YAP
SEISMIC RETROFIT AND RENOVATION
1730 Oregon Street, Berkeley, CA 94703
APN#: 053-1676-001-02

Design Firm:

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6201 Doyle Street, Suite B
Emeryville, CA 94608
TEL 510 / 547-8092
info@siegelstrain.com

Consultant:

Stamp:

LICENSED ARCHITECT KAREN RICHARDS No. C-32146 Exp: 08-31-25 STATE OF CALIFORNIA

No.	Description	Date
	PERMIT SET	12/04/24

Issue Note: PERMIT RESUBMITTAL 03/07/25

City Plan No.:	8286
City File No.:	402-145
Specification No.:	#25-11695-C
Project ID:	YAP
Drawn by:	Author
Checked by:	Checker
Plot Date:	
Scale:	As indicated

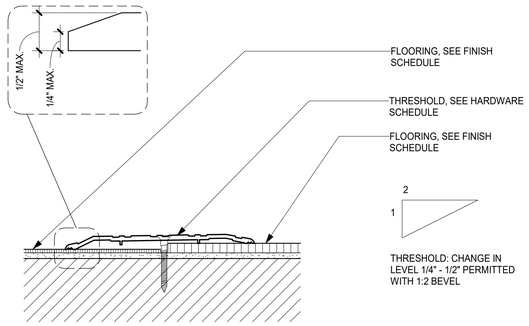
Sheet Title:

ACCESSIBILITY DETAILS

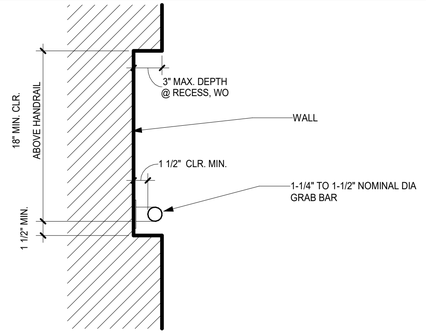
Sheet No.:

G1.01

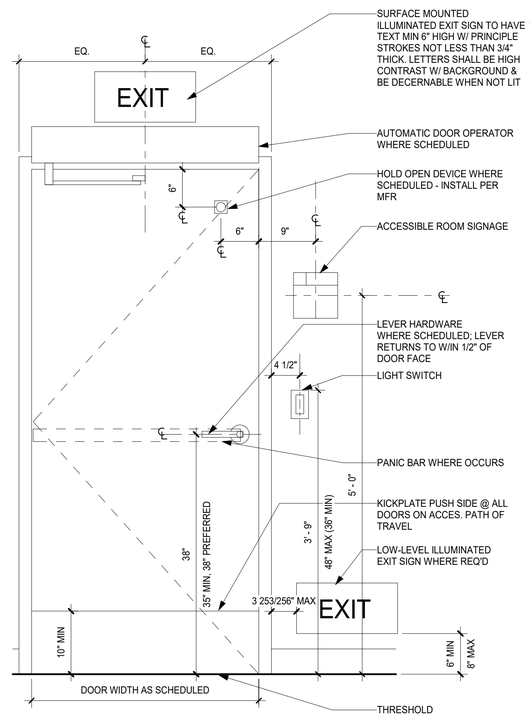
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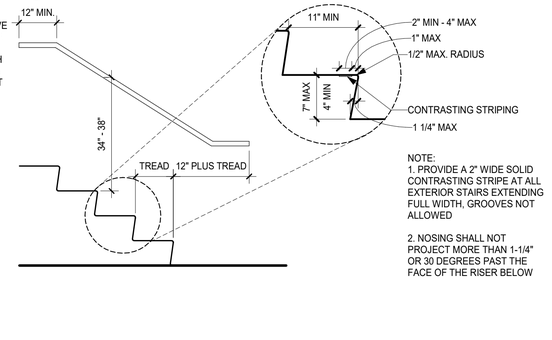
16 G1.02 ACCESSIBLE THRESHOLD DETAIL
6" = 1'-0"



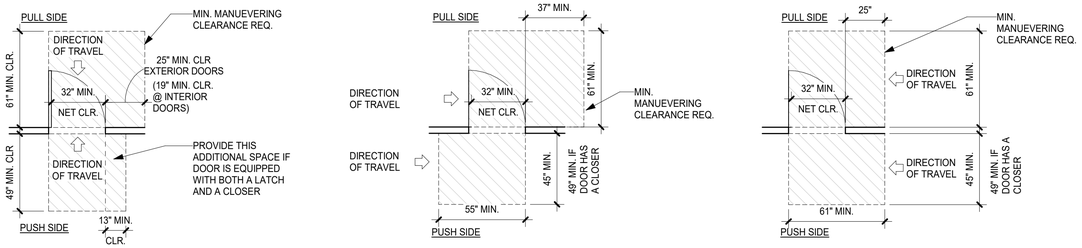
12 G1.02 ACCESSIBILITY - GRAB BAR / HANDRAIL DETAIL
1 1/2" = 1'-0"



14 G1.02 ACCESSIBLE DOOR HARDWARE MOUNTING
1" = 1'-0"

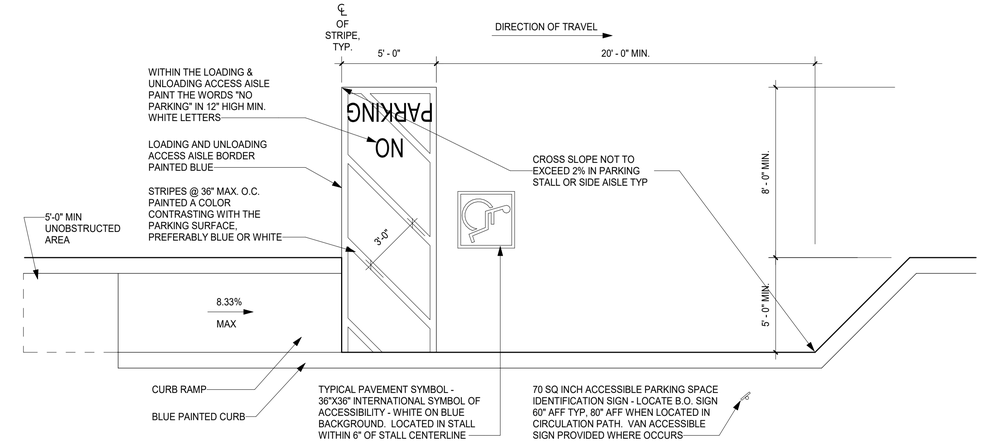


11 G1.02 ACCESSIBLE STAIR HANDRAIL
1/2" = 1'-0"

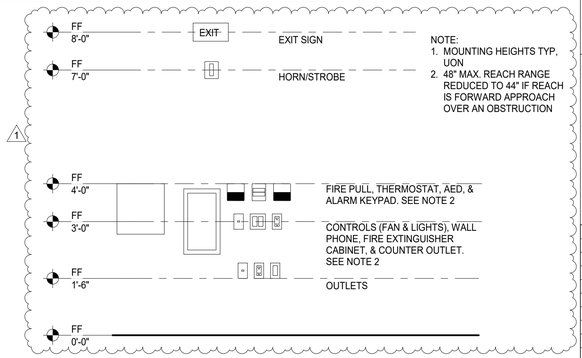


NOTE:
THE FLOOR OR GROUND IN THE REQ'D MANEUVERING AREA SHALL BE LEVEL & CLEAR WHEN THE MANEUVERING AREA IS AT THE INTERIOR. WHEN THE MANEUVERING AREA IS AT THE EXTERIOR, IT MAY HAVE A SLOPE NOT TO EXCEED 1.8%.

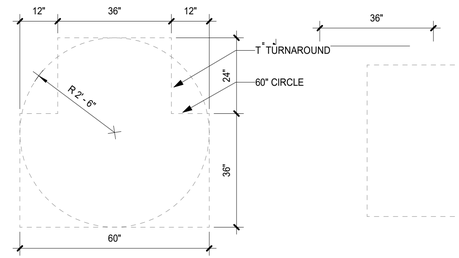
13 G1.02 DOOR CLEARANCES
1/4" = 1'-0"



7 G1.02 ACCESSIBLE PARALLEL PARKING
1/4" = 1'-0"



2 G1.02 ACCESSIBILITY - INTERIOR MOUNTING HEIGHTS
1/2" = 1'-0"



5'-0" TURNING SPACE

CLEAR 30" x 48" @ ALL ACCESSIBLE FIXTURES & APPLIANCES

1 G1.02 TYPICAL ACCESSIBLE CLEARANCES
1/2" = 1'-0"

Project Title:

CITY OF BERKELEY
PARKS, RECREATION & WATERFRONT DEPARTMENT
MLK JR. YOUTH SERVICES CENTER / YAP
SEISMIC RETROFIT AND RENOVATION
1730 Oregon Street, Berkeley, CA 94703
APN#: 053-1676-001-02

Design Firm:
SIEGEL & STRAIN Architects
6201 Doyle Street, Suite B
Emeryville, CA 94608
TEL 510 / 547-8092
info@siegelstrain.com

Consultant:

Stamp:

LICENSED ARCHITECT
KAREN RICHARDS
No. C-32146
Exp: 08-31-25
STATE OF CALIFORNIA

No.	Description	Date
	PERMIT SET	12/04/24
1	PLAN CHECK #1	03/07/25

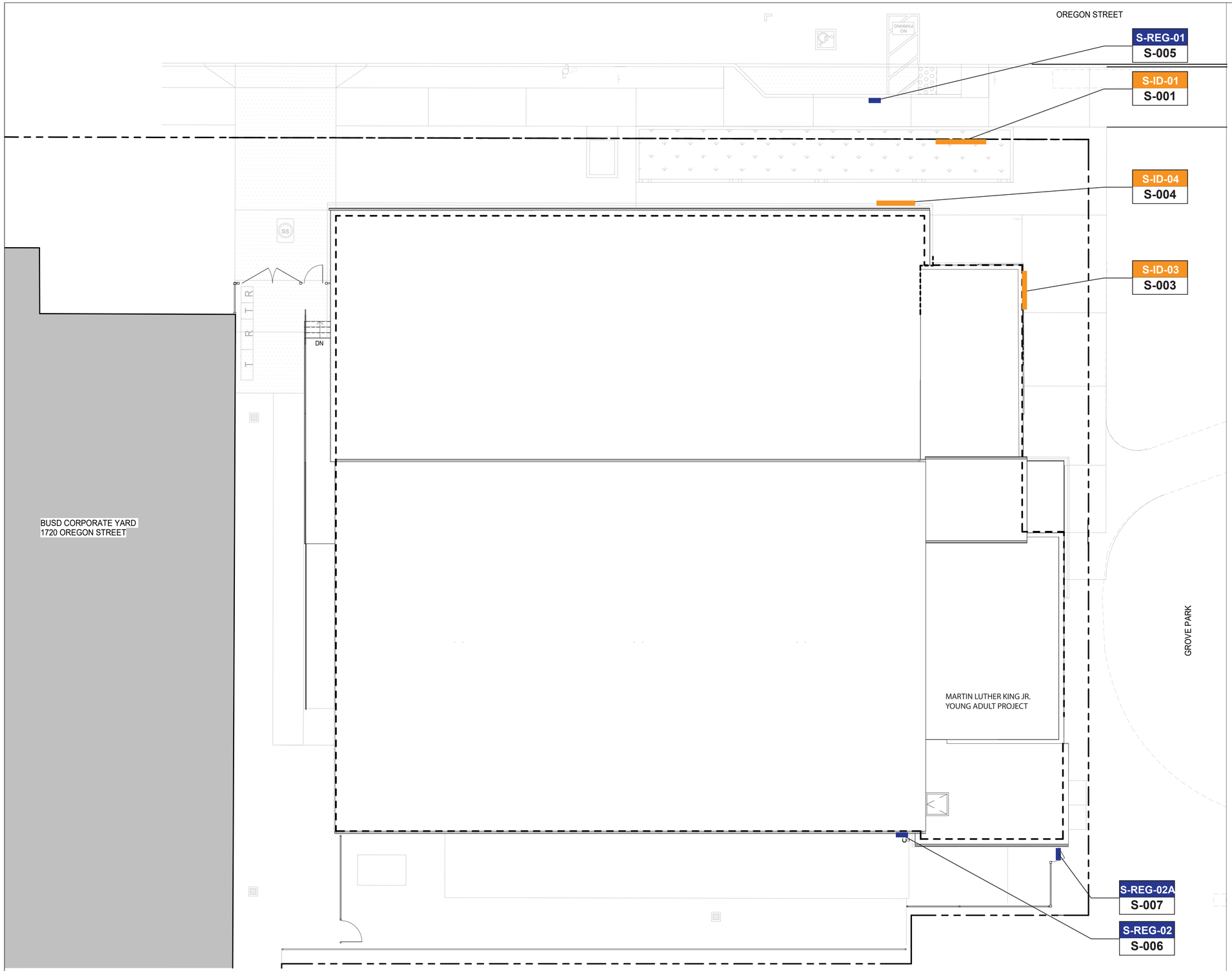
Issue Note: PERMIT RESUBMITTAL 03/07/25

City Plan No.:	8286
City File No.:	402-145
Specification No.:	#25-11695-C
Project ID:	YAP
Drawn by:	HL
Checked by:	KR
Plot Date:	
Scale:	As indicated

Sheet Title:
ACCESSIBILITY DETAILS

Sheet No.:
G1.02

3/7/2025 5:09:34 PM



1 G2.02 SITE PLAN
1/8" = 1'-0" @ 22" x 34" 1/16" = 1'-0" @ 11" x 17"

Project Title:

CITY OF BERKELEY
PARKS, RECREATION & WATERFRONT DEPARTMENT

MLK JR. YOUTH SERVICES CENTER / YAP SEISMIC RETROFIT AND RENOVATION

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Environmental Graphic Design
107 South 2nd Street
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707 803-1789
www.donnellydesign.com

Stamp:

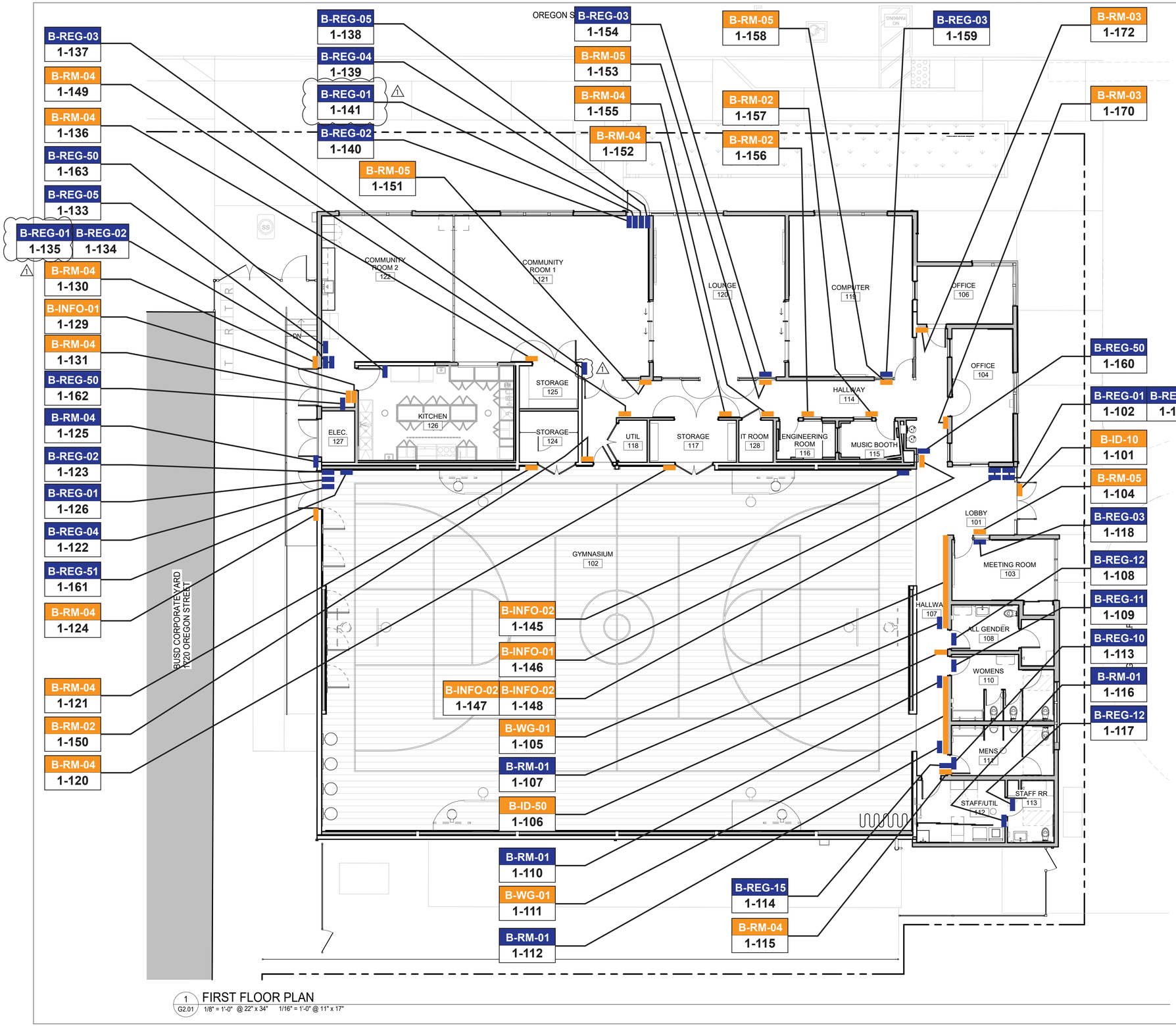
No.	Description	Date
	PERMIT SET	12/04/24

Issue Note: PERMIT RESUBMITTAL 03/07/25

City Plan No.:	8286
City File No.:	402-145
Specification No.:	
Project ID:	YAP
Drawn by:	HV
Checked by:	
Plot Date:	
Scale:	
Sheet Title:	

Sheet No.: G2.01

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1 G2.01 FIRST FLOOR PLAN
1/8" = 1'-0" @ 22" x 34" 1/16" = 1'-0" @ 11" x 17"

N

0 4 8 16 ft.

Project Title:

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www.donnellydesign.com

Stamp:

No.	Description	Date
	PERMIT SET	12/04/24
1	PLAN CHECK #1	03/07/25

Issue Note: PERMIT RESUBMITTAL 03/07/25

City Plan No.:	8286
City File No.:	402-145
Specification No.:	#25-11695-C
Project ID:	YAP
Drawn by:	HV
Checked by:	TD
Plot Date:	
Scale:	1/8" = 1'-0"

Sheet Title:

Sheet No.:

G2.02

2/26/2025 10:24:08 AM

Site Sign Schedule

LOC	SIGN TYPE	MESSAGE	QTY	DESCRIPTION	NOTES
S-001	S-ID-01	MARTIN LUTHER KING JR. YOUNG ADULT PROJECT	1	Monument ID	
S-003	S-ID-03	MARTIN LUTHER KING JR. YOUNG ADULT PROJECT	1	Building ID	
S-004	S-ID-04	1730	1	Address ID	
S-005	S-REG-01	(ISA) PARKING ONLY MINIMUM FINE $250	1	Accessible Parking	
S-006	S-REG-02	FIRE RISER	1	FIRE RISER	
S-007	S-REG-02A	FIRE RISER INSIDE GATE	1	FIRE RISER	

Interior Sign Schedule

LOC	SIGN TYPE	MESSAGE	QTY	DESCRIPTION	NOTES
1-101	B-ID-10	(ISA symbol) (no smoking symbol) NO SMOKING WITH 30'-0" OF ENTRANCE	1	Entrance Graphics	
1-102	B-REG-01	EVACUATION MAP (artwork)	1	Evacuation Map	
1-103	B-REG-02	EXIT (braille)	1	EXIT (w/ Evac Map)	
1-104	B-RM-05	(blank) ---------- (INSERT) ---------- CONFERENCE ROOM (braille)	1	Specialty Room ID w/ Insert	
1-105	B-WG-01	RESTROOMS (arrow right)	1	Painted Graphic	
1-106	B-ID-50	(Side A & B) (Man/Woman symbol)	1	Flag ID	
1-107	B-RM-01	(MAN/WOMAN/ISA symbols) RESTROOM (braille)	1	Restroom Wall ID	
1-108	B-REG-12	(Triangle in Circle)	1	Restroom Door All Gender	
1-109	B-REG-11	(Circle)	1	Restroom Door Women	
1-110	B-RM-01	(Woman symbol) WOMEN (braille)	1	Restroom Wall ID	
1-111	B-WG-01	(arrow left) RESTROOMS (arrow right)	1	Painted Graphic	
1-112	B-RM-01	(Man symbol) MEN (braille)	1	Restroom Wall ID	
1-113	B-REG-10	(Triangle)	1	Restroom Door Men	
1-114	B-REG-15	ROOF ACCESS	1	Roof Access	
1-115	B-RM-04	STAFF UTILITY ROOM (braille)	1	Secondary Room ID	
1-116	B-RM-01	(MAN/WOMAN/ISA symbols) RESTROOM (braille)	1	Restroom Wall ID	
1-117	B-REG-12	(Triangle in Circle)	1	Restroom Door All Gender	
1-118	B-REG-03	EXIT ROUTE (braille)	1	EXIT ROUTE (small)	
1-119		*unassigned*			
1-120	B-RM-04	HALL STORAGE (braille)	1	Secondary Room ID	
1-121	B-RM-04	GYM STORAGE (braille)	1	Secondary Room ID	
1-122	B-REG-04	Maximum Occupancy 375	1	Max Occupancy	
1-123	B-REG-02	EXIT (arrow left) (braille)	1	EXIT ROUTE (w/ Evac Map)	
1-124	B-RM-04	GYMNASIUM (braille)	1	Secondary Room ID	Exterior grade plaque
1-125	B-RM-04	ELECTRICAL ROOM (braille)	1	Secondary Room ID	Exterior grade plaque
1-126	B-REG-01	EVACUATION MAP (artwork)	1	Evacuation Map	
1-127..128		*unassigned*			
1-129	B-INFO-01	(Insert)	1	Insert Sheet	
1-130	B-RM-04	COMMUNITY ROOM (braille)	1	Secondary Room ID	Exterior grade plaque
1-131	B-RM-04	KITCHEN (braille)	1	Secondary Room ID	
1-133	B-REG-05	Assisted Listening Device Available (ALD symbol)	1	ALD Regulatory	
1 1-134	B-REG-02	EXIT (braille)	1	EXIT ROUTE (w/ Evac Map)	
1-135	B-REG-01	EVACUATION MAP (artwork)	1	Evacuation Map	
1-136	B-RM-04	STORAGE (braille)	1	Secondary Room ID	
1-137	B-REG-03	EXIT (arrow right) (braille)	1	EXIT ROUTE (small)	
1-138	B-REG-05	Assisted Listening Device Available (ALD symbol)	1	ALD Regulatory	
1-139	B-REG-04	Maximum Occupancy 52 Combined Maximum Occupancy 86	1	Max Occupancy	
1-140	B-REG-02	EXIT (arrow left) (braille)	1	EXIT ROUTE (w/ Evac Map)	
1-141	B-REG-01	EVACUATION MAP (artwork)	1	Evacuation Map	
1-142..144		*unassigned*			
1-145	B-INFO-02	(symbol) NO FOOD & DRINKS	1	INFO/Rules Signs	
1-146	B-INFO-01	(Insert)	1	Insert Sheet	
1-147	B-INFO-02	(symbol) NO SMOKING	1	INFO/Rules Signs	
1-148	B-INFO-02	(symbol) NO BICYLCLES	1	INFO/Rules Signs	
1-149	B-RM-04	UTILITY ROOM (braille)	1	Secondary Room ID	
1-150	B-RM-02	(blank) ---------- GYMNASIUM (braille)	1	Specialty Room ID	
1-151	B-RM-05	(blank) ---------- (INSERT) ---------- COMMUNITY ROOM (braille)	1	Specialty Room ID w/ Insert	
1-152	B-RM-04	HALL STORAGE (braille)	1	Secondary Room ID	
1-153	B-RM-05	(blank) ---------- (INSERT) ---------- LOUNGE (braille)	1	Specialty Room ID w/ Insert	
1-154	B-REG-03	EXIT ROUTE (braille)	1	EXIT ROUTE (small)	
1-155	B-RM-04	IT ROOM (braille)	1	Secondary Room ID	
1-156	B-RM-02	(blank) ---------- ENGINEERING ROOM (braille)	1	Specialty Room ID	
1-157	B-RM-02	(blank) ---------- MUSIC BOOTH (braille)	1	Specialty Room ID	
1-158	B-RM-05	(blank) ---------- (INSERT) ---------- COMPUTER ROOM (braille)	1	Specialty Room ID w/ Insert	
1-159	B-REG-03	EXIT ROUTE (braille)	1	EXIT ROUTE (small)	
1-160	B-REG-50	(Side A & B) (FE Symbol)	1	Fire Extinguisher Flag	
1-161	B-REG-50	(FE Symbol)	1	Fire Extinguisher ID	
1-162	B-REG-50	(Side A & B) (FE Symbol)	1	Fire Extinguisher Flag	
1-163	B-REG-50	(Side A & B) (FE Symbol)	1	Fire Extinguisher Flag	
1-164..169		*unassigned*			
1-170	B-RM-03	(insert) ---------- OFFICE (braille)	1	Office ID w/ Small Insert	
1-171		*unassigned*			
1-172	B-RM-03	(insert) ---------- SUPERVISOR (braille)	1	Office ID w/ Small Insert	

Project Title:

CITY OF BERKELEY
PARKS, RECREATION & WATERFRONT DEPARTMENT

MLK JR. YOUTH SERVICES CENTER / YAP
SEISMIC RETROFIT AND RENOVATION

1730 Oregon Street, Berkeley, CA 94703
APN#: 053-1676-001-02

Design Firm:
SIEGEL & STRAIN Architects
6201 Doyle Street, Suite B
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Consultant:
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Environmental Graphic Design
107 South 2nd Street
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Stamp:

No.	Description	Date
	PERMIT SET	12/04/24
1	PLAN CHECK #1	03/07/25

Issue Note: PERMIT RESUBMITTAL 03/07/25

City Plan No.:	8286
City File No.:	402-145
Specification No.:	#25-11695-C
Project ID:	YAP
Drawn by:	HV
Checked by:	TD
Plot Date:	
Scale:	1/8" = 1'-0"

Sheet Title:
SIGN SCHEDULES

Sheet No.:
G2.03

2/26/2025 10:24:08 AM

Project Fonts

1 (City of Berkeley Official Font)

ITC New Rennie Mackintosh Regular

ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz
1234567890

ITC New Rennie Mackinstosh Semibold

ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz
1234567890

ITC New Rennie Mackinstosh Bold

ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz
1234567890

2

Kohinoor Telugu Regular

ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz
1234567890

Kohinoor Telugu Medium

ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz
1234567890

Kohinoor Telugu Semibold

ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz
1234567890

Project Graphics



Project Materials & Colors

SIGNAGE



Concrete



Horizontal Brushed Aluminum



Dark Grey Letters
To match PMS 9C



Brushed Matte Aluminum Letters



Frosted Matte Acrylic
Acrylite Crystal Ice Colorless 0M001SC
Clear Matte Acrylic
Acrylite Non-Glare Colorless 0A000AR



Color C1: Matte Light Grey
PMS 2C; C5M3Y5K11



Color C2: Matte Dark Grey
PMS 9C; C30M22Y17K57



C3 Blue Grey - color to
match building tile color



Color C4: DOT Blue
PMS 293C; C100M69Y0K4



Color C5: Red
PMS 7620; C0M95Y94K28

Project Title:

CITY OF BERKELEY
PARKS, RECREATION & WATERFRONT DEPARTMENT

MLK JR. YOUTH SERVICES CENTER / YAP
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6201 Doyle Street, Suite B
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mcbRY2.R4RXM.95
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Drawn by:	SNS
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Plot Date:	
Scale:	AS NOTED

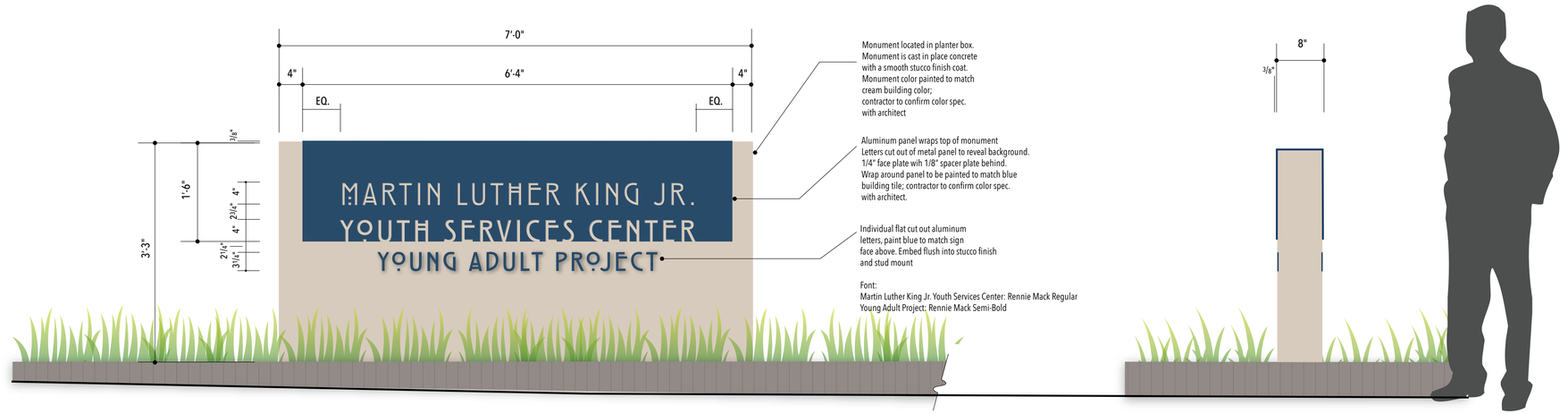
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GRAPHIC STANDARDS

Sheet No.:

G3.00

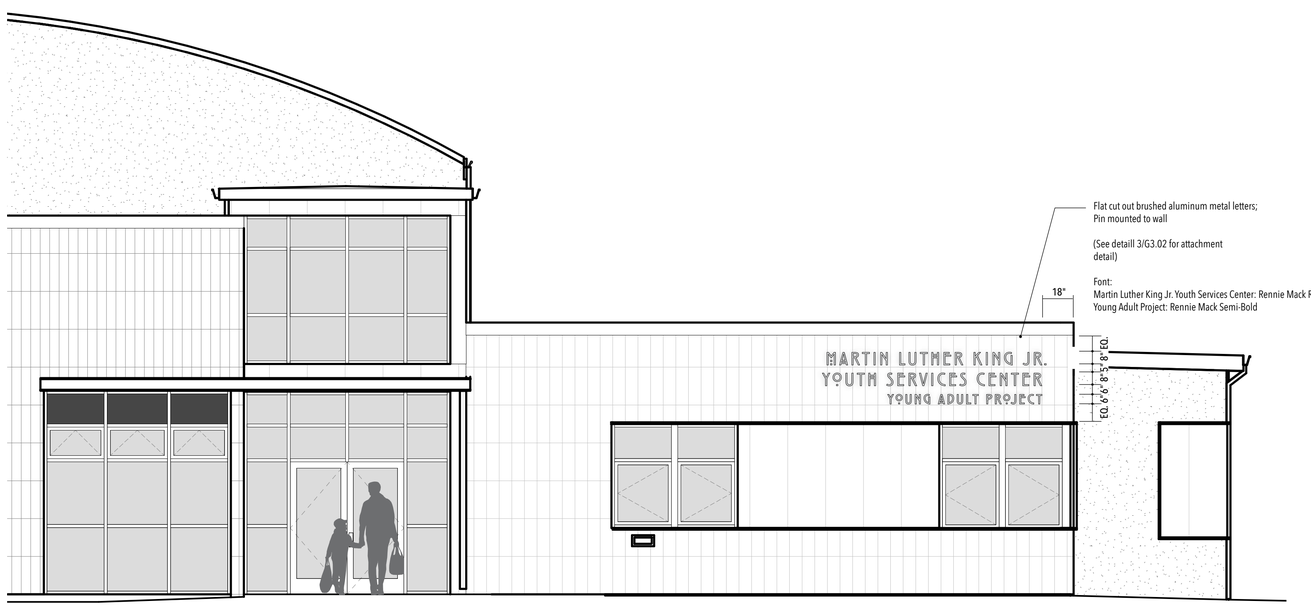
745845.5BRB 29 B2Rdy



3 G3.01 **SIGN TYPE S-ID-01 Monument Sign:** Elevation Front & Side View

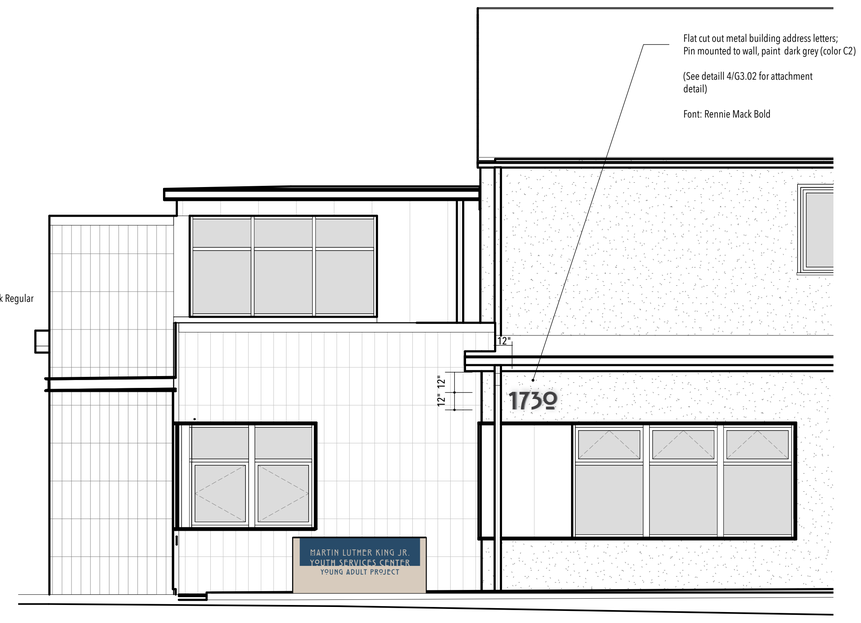
Scale: 1" = 1'-0"

Double Sided Monument- Font: Rennie Mack Semi-Bold



2 G3.01 **SIGNTYPE S-ID-03: Building Identification Sign:** East Elevation

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



1 G3.01 **S-ID-04 Building Identification Sign:** North Elevation

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

Project Title:

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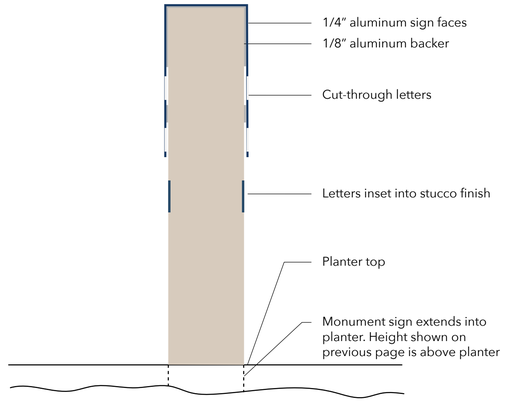
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SITE
SIGN TYPE
DRAWINGS

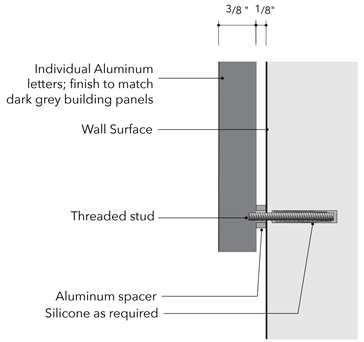
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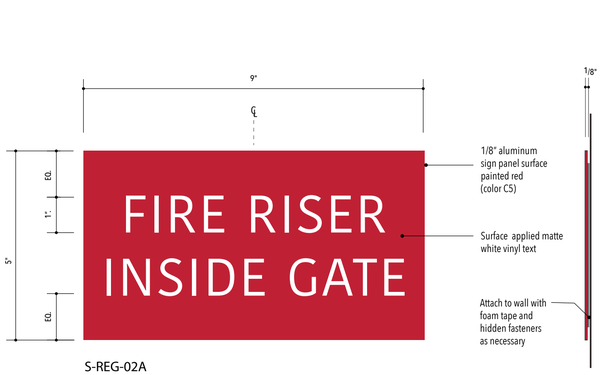
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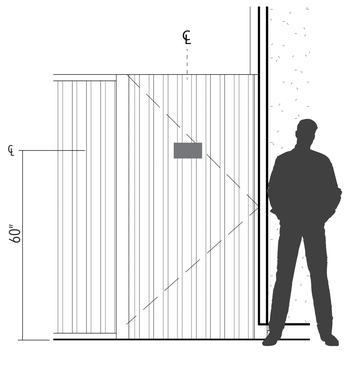


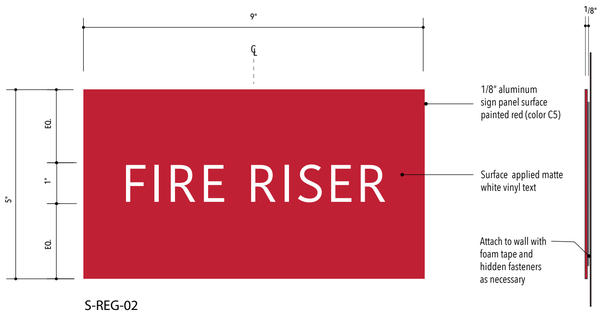
4 G3.02 **Sign Type S-ID-01:** Construction Detail: Monument Sign
SCALE: 1 1/2" = 1'-0"

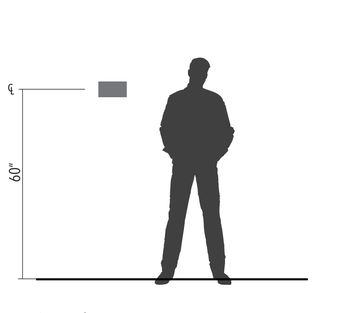


3 G3.02 **Sign Type S-ID-03 & S-ID-04:** Construction Detail: Building Mounted Letters
SCALE: Full Size

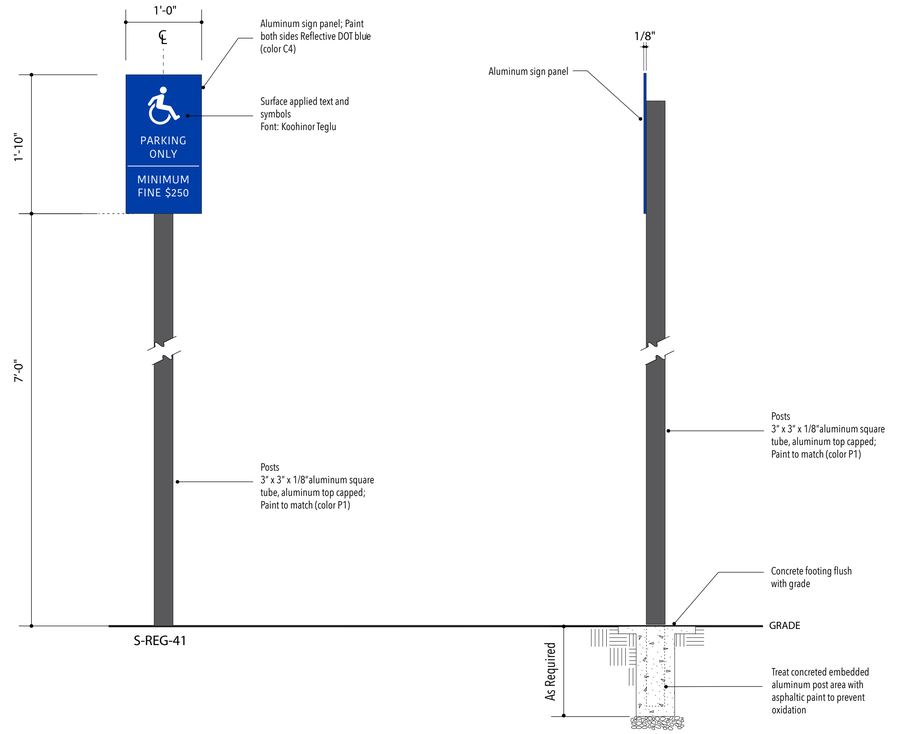








2 G3.02 **S-REG-02:** Front & Side View: Fire Riser Sign
Scale: Half Scale



1 G3.02 **S-REG-01:** Front & Side View: ISA Acccessible, ISA Van Acccessible Parking Sign
Scale: 3/4" = 1'-0"

Project Title:

CITY OF BERKELEY
PARKS, RECREATION & WATERFRONT DEPARTMENT

MLK JR. YOUTH SERVICES CENTER / YAP SEISMIC RETROFIT AND RENOVATION

1730 Oregon Street, Berkeley, CA 94703
APN#: 053-1676-001-02

Design Firm:
SIEGEL & STRAIN Architects
6201 Doyle Street, Suite B
Emeryville, CA 94608
TEL 510 / 547-8092
info@siegelstrain.com

Consultant:
DONNELLY DESIGN
Environmental Graphic Design
107 South 2nd Street
Rio Vista, CA 94571
707 803-1789
www.donnellydesign.com

Stamp:

No.	Description	Date
	PERMIT SET	12/04/24

Issue Note: PERMIT RESUBMITTAL 03/07/25

City Plan No.:	8286
City File No.:	402-145
Specification No.:	#25-11695-C
Project ID:	YAP
Drawn by:	
Checked by:	
Plot Date:	
Scale:	

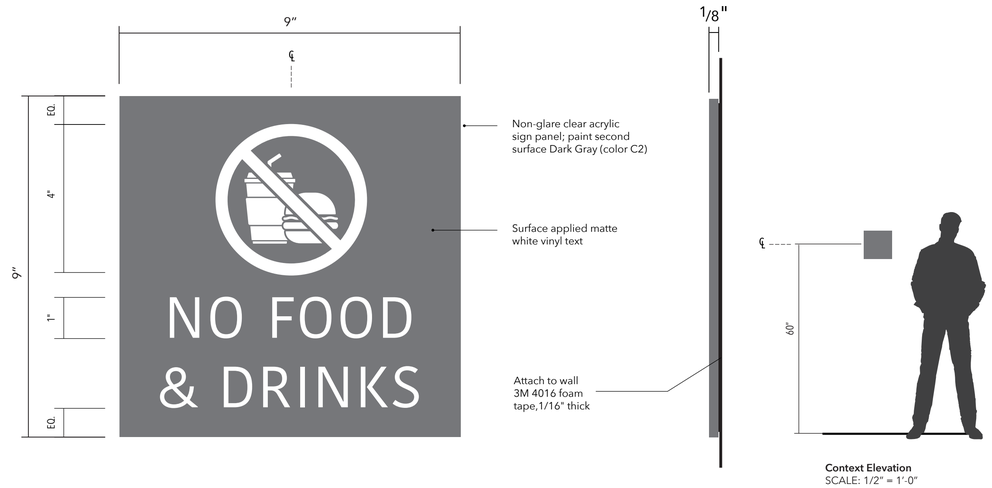
Sheet Title:
SITE SIGN TYPE DRAWINGS

Sheet No.:
G3.02

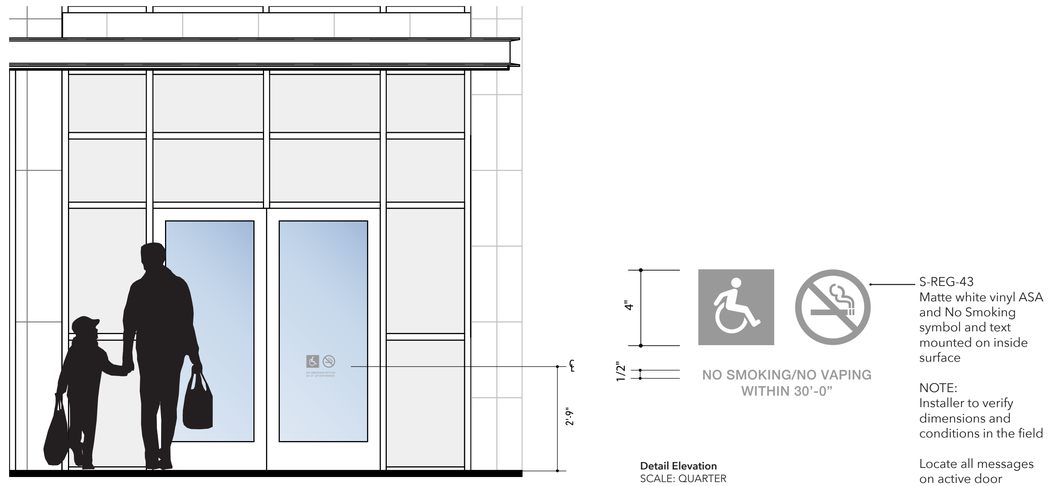
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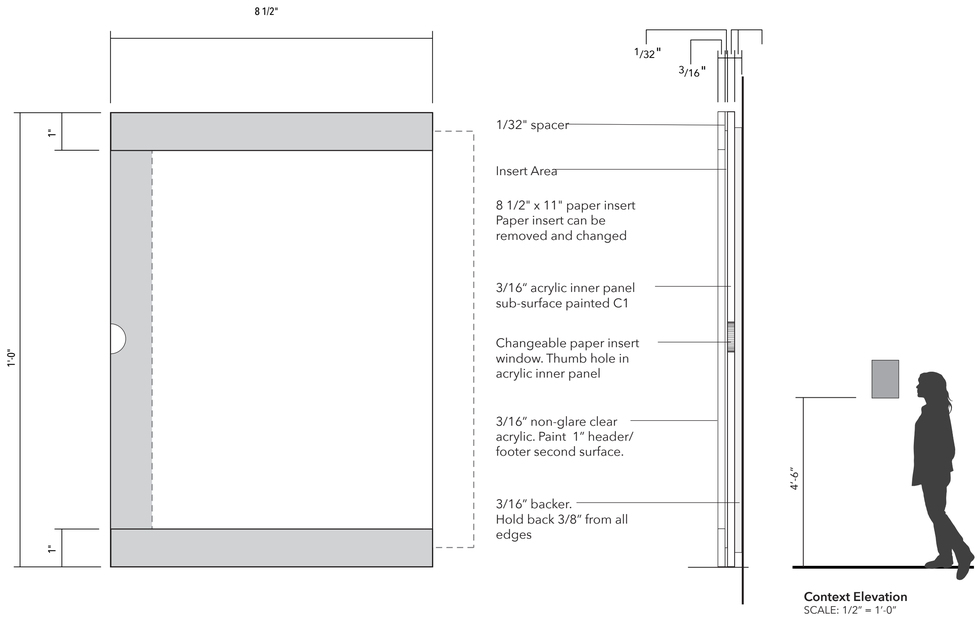
Alternate Layouts



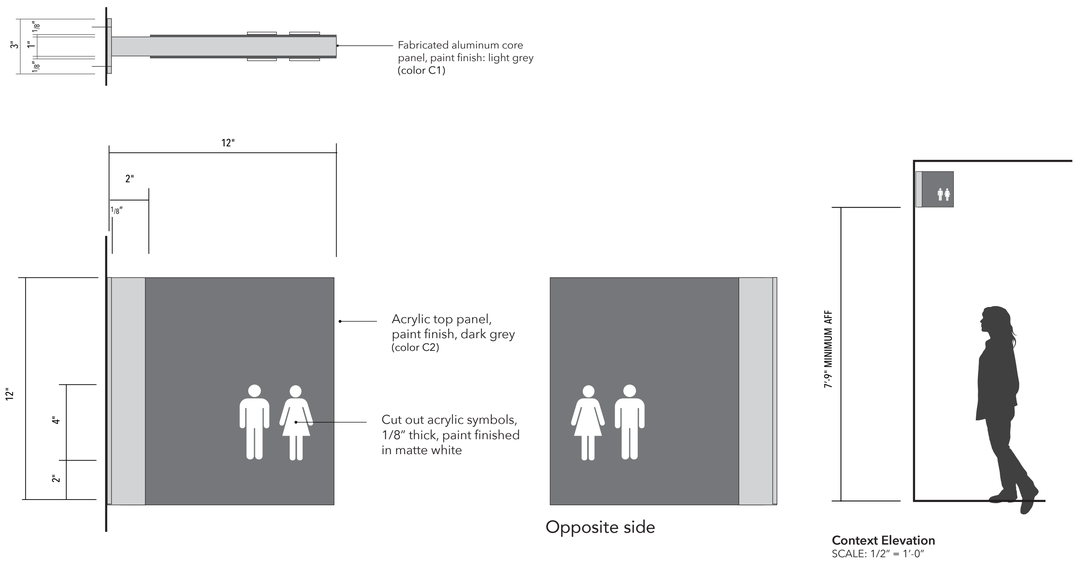
4 G3.03 **SIGN TYPE B-INFO-02**- Elevation Front & Side View: INFO/RULES SIGNS
Scale: Half Scale



3 G3.03 **SIGN TYPE B-ID-10**- Elevation Front & Side View: Window Graphic
Scale: 1/2" = 1'-0"



2 G3.03 **Sign Type B-INFO-01:** Elevation Front & Side View: Posting Sign
SCALE: Half Scale



1 G3.03 **SIGN TYPE B-ID-50**- Elevation Front & Side View: Projecting Identification Sign
Scale: 3" = 1'-0"

Project Title:

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707 803-1789
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Stamp:

No.	Description	Date
	PERMIT SET	12/04/24

Issue Note: PERMIT RESUBMITTAL 03/07/25

City Plan No.:	8286
City File No.:	402-145
Specification No.:	#25-11695-C
Project ID:	YAP
Drawn by:	
Checked by:	
Plot Date:	
Scale:	

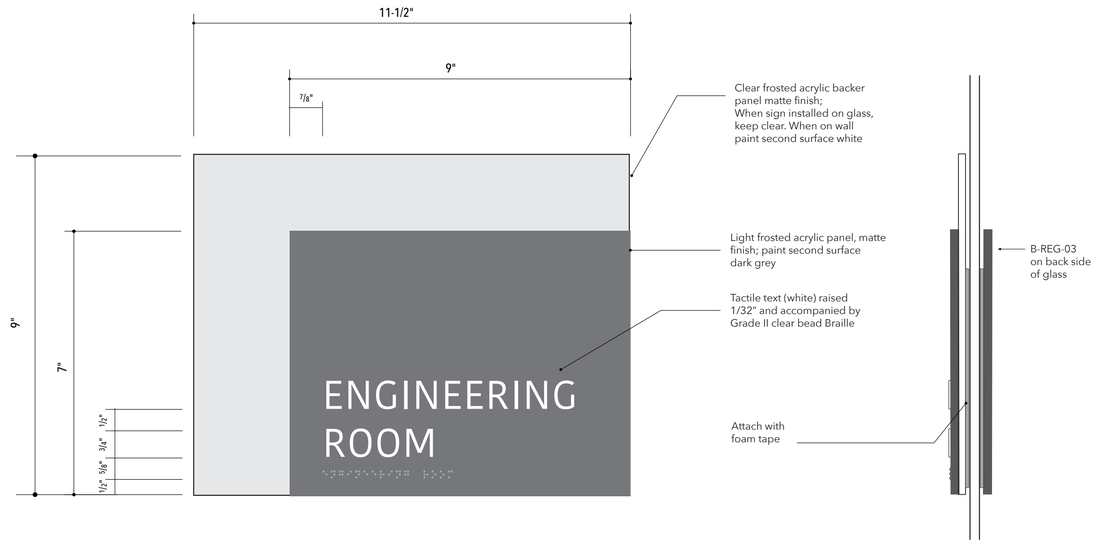
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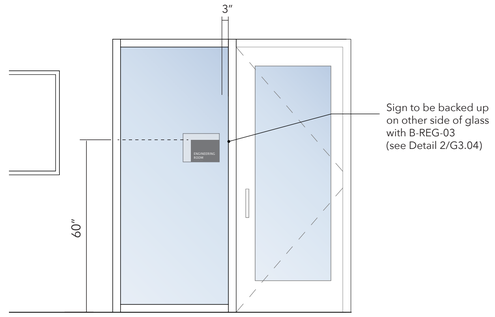
INTERIOR SIGN TYPE DRAWINGS

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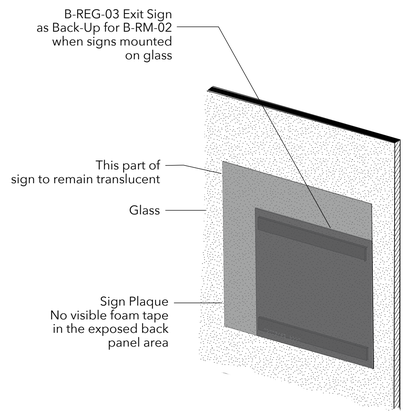
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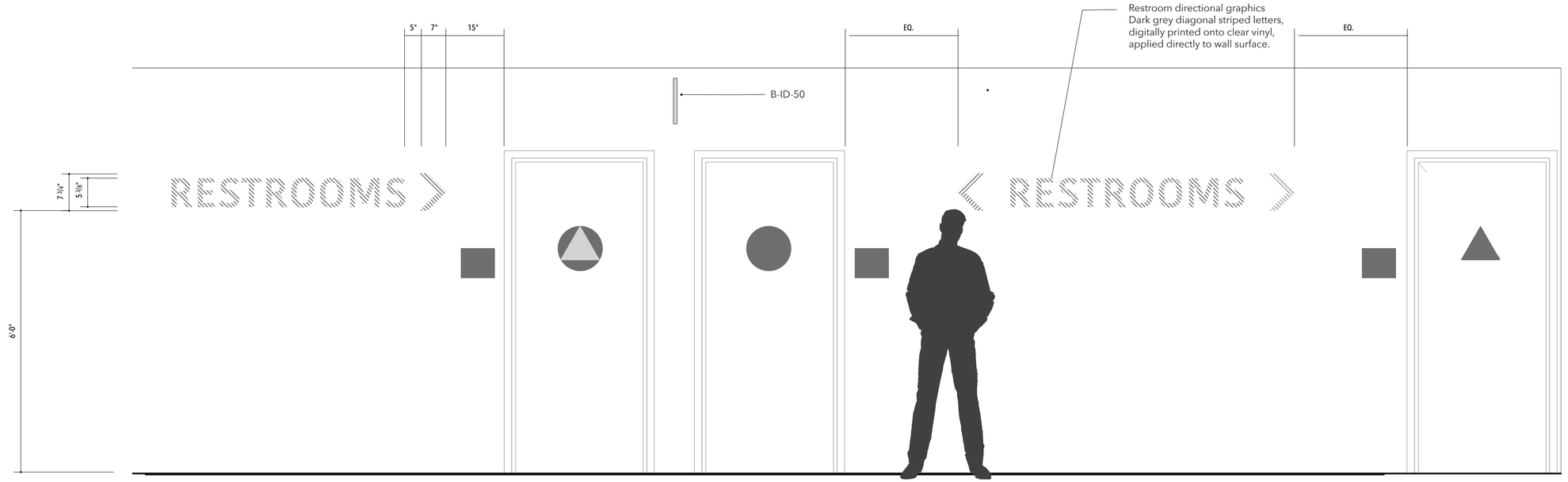


Context Elevation, Typ.
SCALE: 1/2" = 1'-0"



3 / G3.04 **SIGN TYPE B-RM-02**- Elevation Front & Side View: Primary Room Idenitifcation
Scale: Half Scale

2 / G3.04 Construction Detail (Typical)
SCALE: NA



1 / G3.04 **SIGN TYPE B-WG-01**- Elevation Front View: Restroom Wall Graphic
Scale: 3/4" =1'-0"

Project Title:

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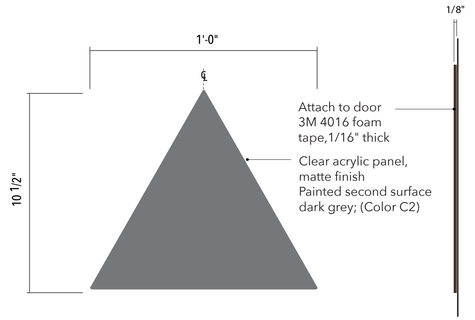
Issue Note: PERMIT RESUBMITTAL 03/07/25

City Plan No.:	8286
City File No.:	402-145
Specification No.:	#25-11695-C
Project ID:	YAP
Drawn by:	
Checked by:	
Plot Date:	
Scale:	

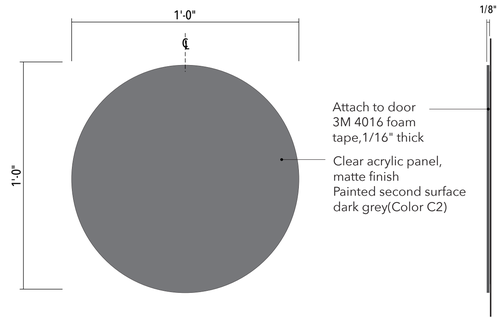
Sheet Title:
INTERIOR SIGN TYPE DRAWINGS

Sheet No.:
G3.04

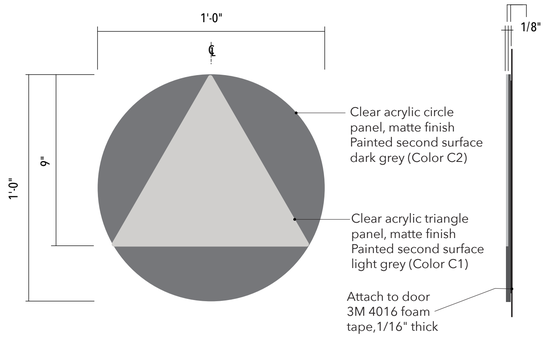
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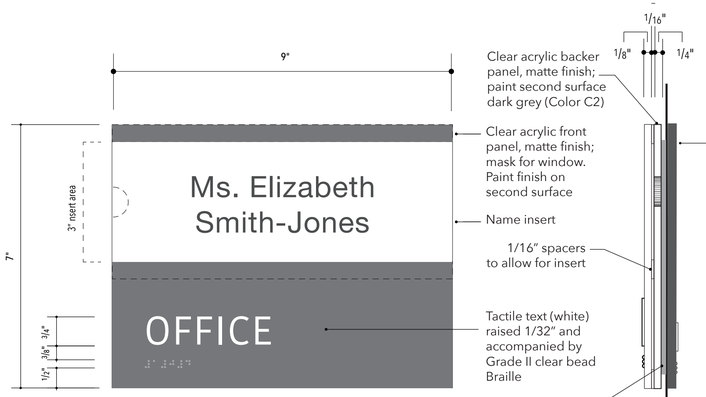
7 G3.05 **SIGN TYPE B-REG-10-** Elevation Front & Side View: Mens Restroom Door Sign
Scale: 3" = 1'-0"



6 G3.05 **SIGN TYPE B-REG-11-** Elevation Front & Side View: Womens Restroom Door Sign
Scale: 3" = 1'-0"

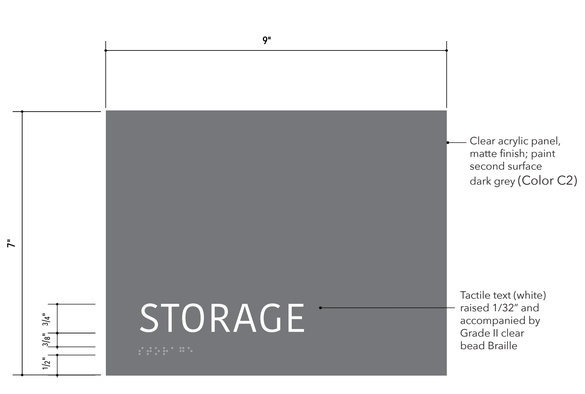


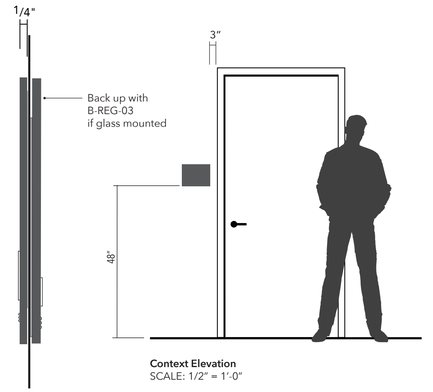
5 G3.05 **SIGN TYPE B-REG-12-** Elevation Front & Side View: All Gender Restroom Door Sign
Scale: 3" = 1'-0"



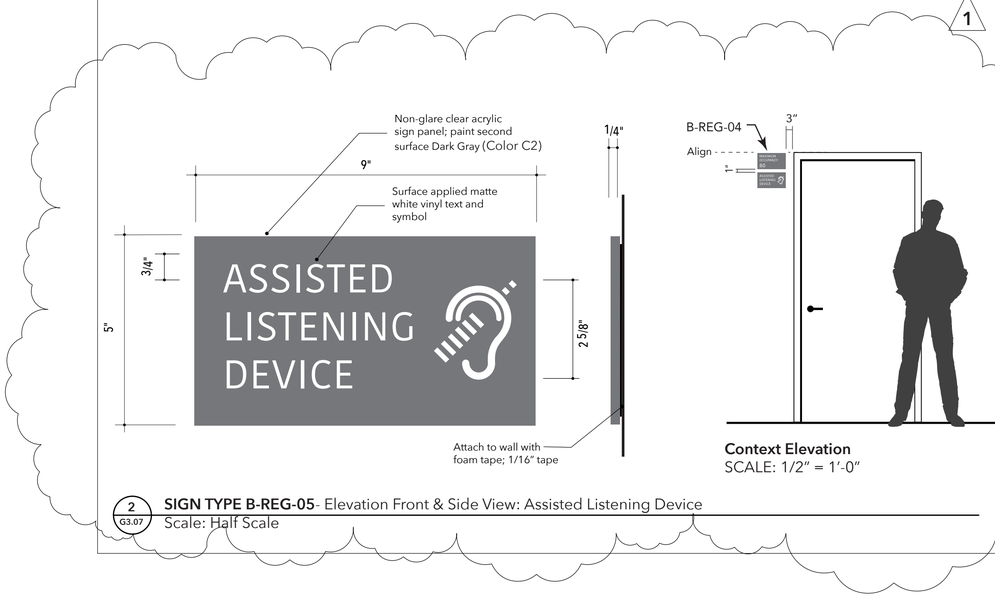


4 G3.05 **SIGN TYPE B-RM-03**- Elevation Front & Side View: Room Idenitifcation with small insert
Scale: Half Scale





3 G3.05 **SIGN TYPE B-RM-04**- Elevation Front & Side View: Tactile and Braille Room Identification
Scale: Half Scale



2 G3.07 **SIGN TYPE B-REG-05**- Elevation Front & Side View: Assisted Listening Device
Scale: Half Scale

1 G3.05 **SIGN TYPE B-RM-01**- Elevation Front & Side View: Tactile and Braille Restroom Identification
Scale: Half Scale

Project Title:

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Stamp:

No.	Description	Date
	PERMIT SET	12/04/24
1	PLAN CHECK #1	03/07/25

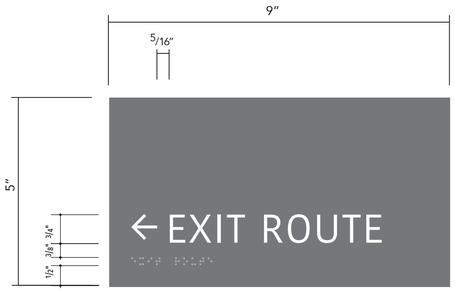
Issue Note: PERMIT RESUBMITTAL 03/07/25

City Plan No.:	8286
City File No.:	402-145
Specification No.:	#25-11695-C
Project ID:	YAP
Drawn by:	SS
Checked by:	TD
Plot Date:	
Scale:	

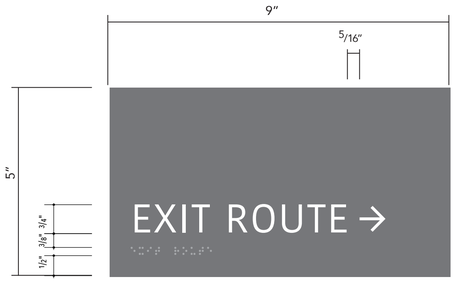
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Sheet No.: G3.05

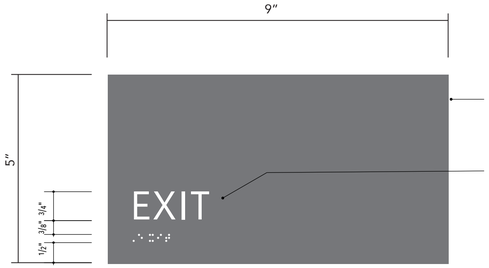
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Additional Layout



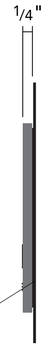
Additional Layout

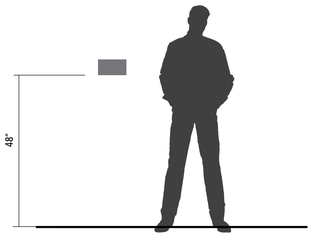


Clear acrylic panel, matte finish; paint second surface dark grey

Tactile text (white) raised 1/32″ and accompanied by Grade II clear bead Braille

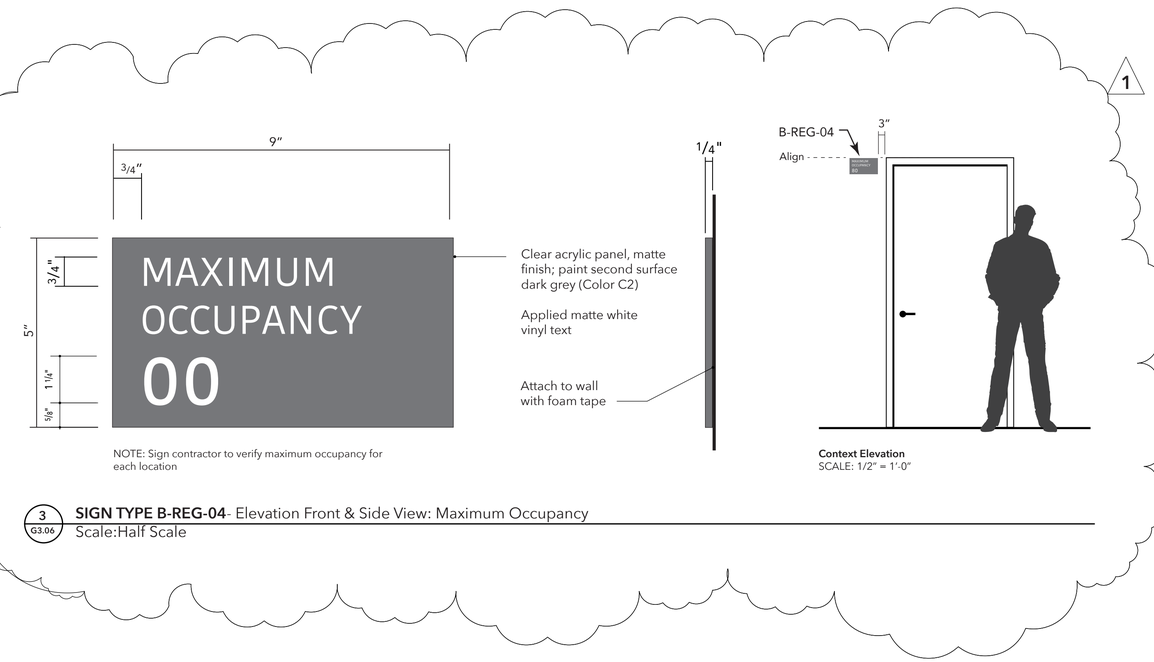
Attach to wall 3M 4016 foam tape,1/16" thick





Context Elevation
SCALE: 1/2″ = 1'-0″

3 G3.06 **SIGN TYPE B-REG-03**- Elevation Front & Side View: Exit Identification
Scale: Half Scale



Clear acrylic panel, matte finish; paint second surface dark grey (Color C2)

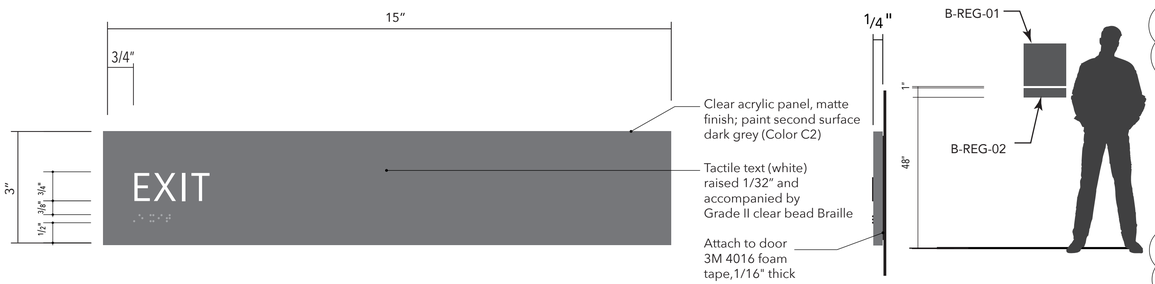
Applied matte white vinyl text

Attach to wall with foam tape

NOTE: Sign contractor to verify maximum occupancy for each location

Context Elevation
SCALE: 1/2″ = 1'-0″

3 G3.06 **SIGN TYPE B-REG-04**- Elevation Front & Side View: Maximum Occupancy
Scale:Half Scale



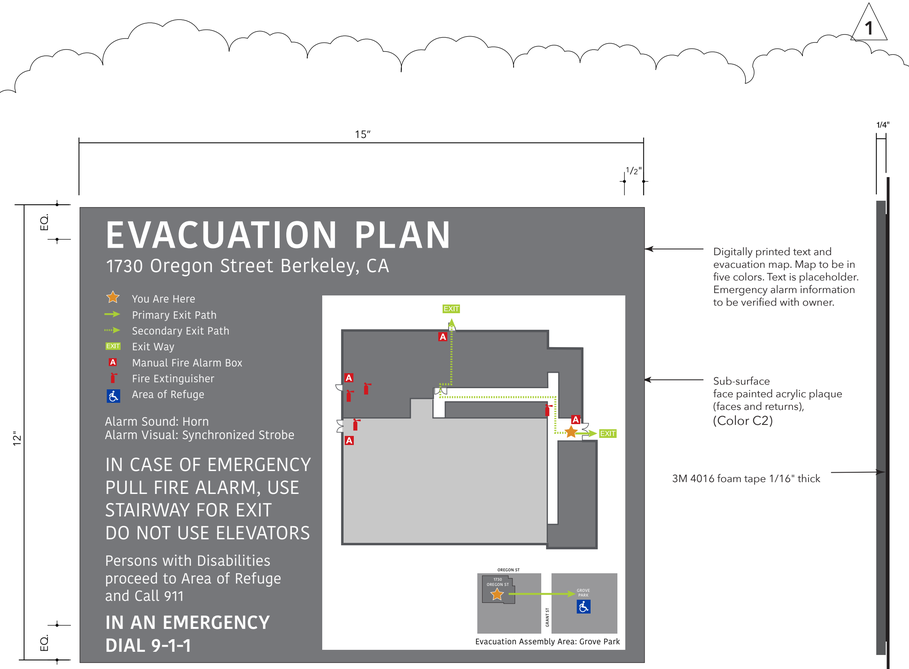
Clear acrylic panel, matte finish; paint second surface dark grey (Color C2)

Tactile text (white) raised 1/32″ and accompanied by Grade II clear bead Braille

Attach to door 3M 4016 foam tape,1/16" thick

Context Elevation
SCALE: 1/2″ = 1'-0″

2 G3.06 **SIGN TYPE B-REG-02**- Elevation Front & Side View: Exit Identification (Large)
Scale: Half Scale



Digitally printed text and evacuation map. Map to be in five colors. Text is placeholder. Emergency alarm information to be verified with owner.

Sub-surface face painted acrylic plaque (faces and returns), (Color C2)

3M 4016 foam tape 1/16" thick

NOTE: Map is placeholder only

1 G3.06 **SIGN TYPE B-REG-01**- Elevation Front & Side View: Evacuation Map
Scale: Half Scale

Project Title:

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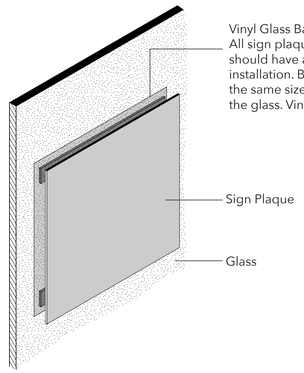
Issue Note: PERMIT RESUBMITTAL 03/07/25

City Plan No.:	8286
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Scale:	

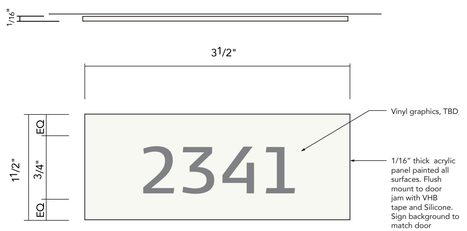
Sheet Title:
INTERIOR SIGN TYPE DRAWINGS

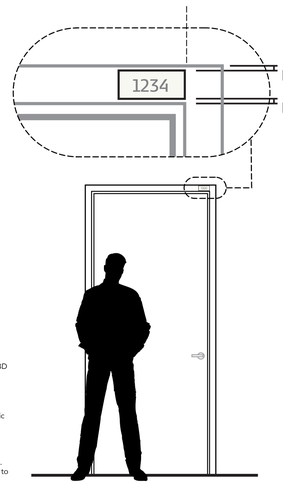
Sheet No.:
G3.06

10/24/2024 11:40:02 AM



Vinyl Glass Back-Up for Glass Mounted Signs, Typical
(Except when noted to back up with B-REG-03)

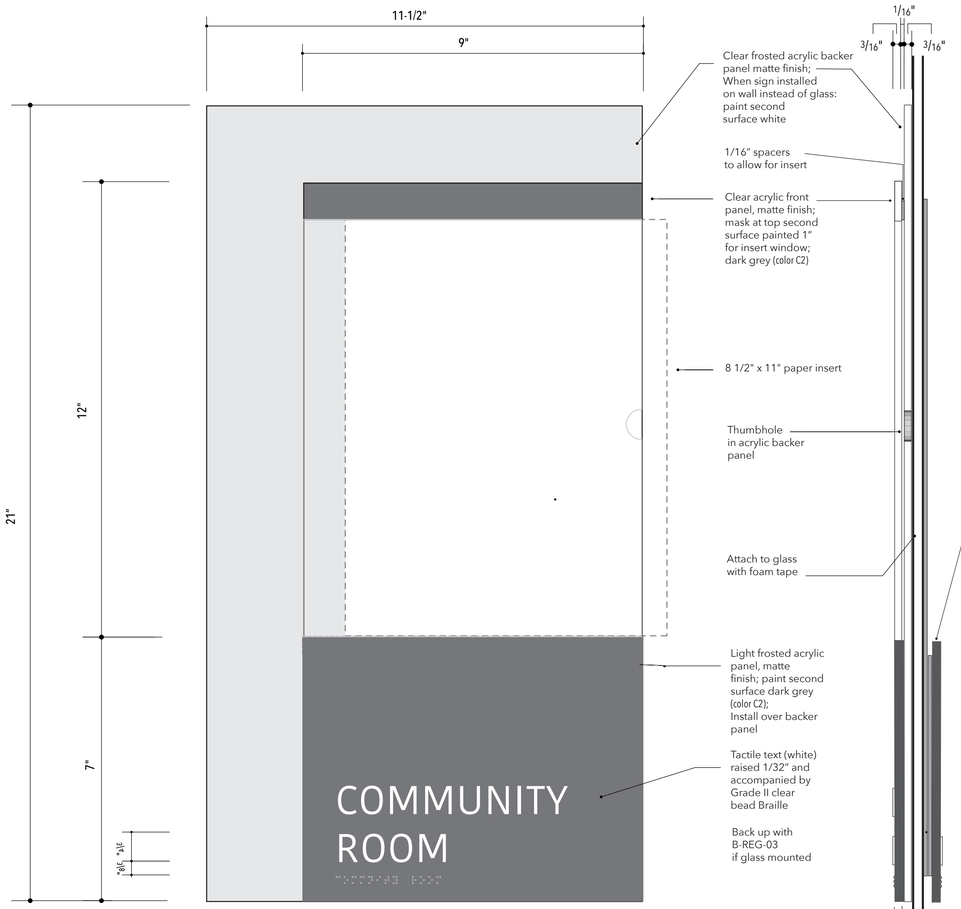


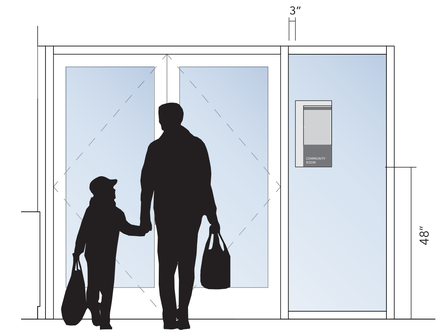


Context Elevation
SCALE: 1/2" = 1'-0"

5 G3.07 **SIGN TYPE B-RM-10**- Elevation Front & Side View
Scale:Full Size

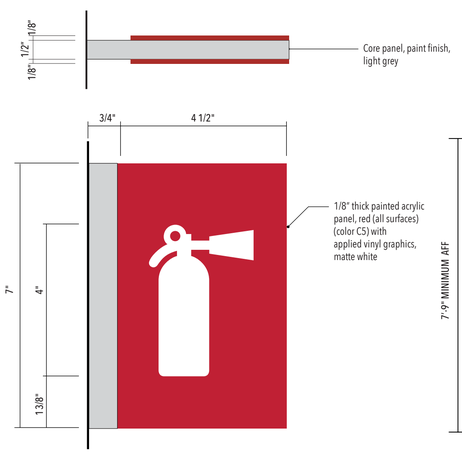
Provide one type B-RM-10 for each room to be located on door frame at room entrance point

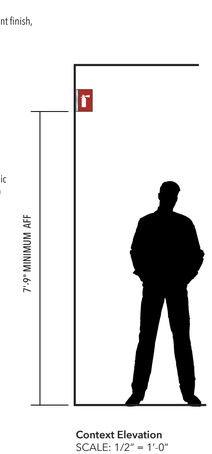




Context Elevation: Community Rooms 1&2
SCALE: 1/2" = 1'-0"

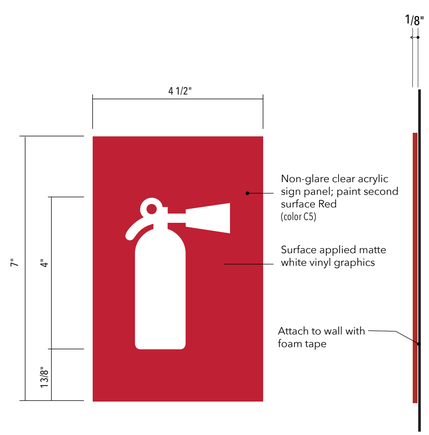
4 G3.04 **SIGN TYPE B-RM-02**- Elevation Front & Side View: Primary Room Idenitifcation
Scale: Half Scale



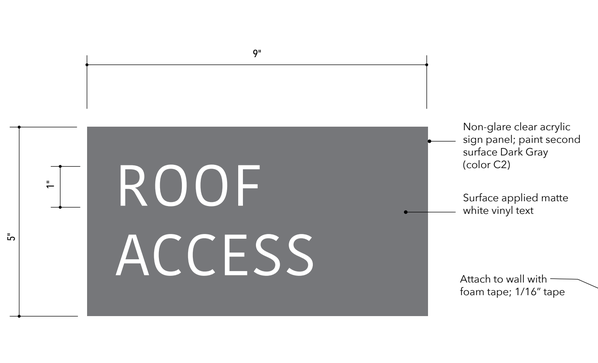


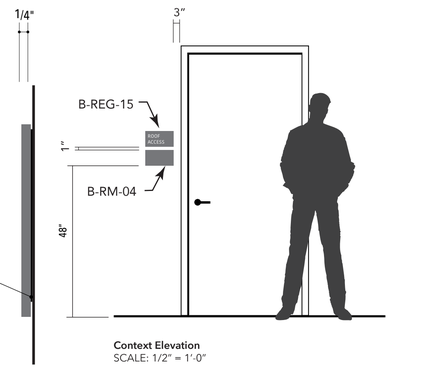
Context Elevation
SCALE: 1/2" = 1'-0"

3 G3.07 **SIGN TYPE B-REG-50**- Elevation Front & Side View: Fire Extinguisher Identification
Scale: Half Scale



2 G3.07 **SIGN TYPE B-REG-51**- Wall Mounted FE Sign
Scale: Half Scale





Context Elevation
SCALE: 1/2" = 1'-0"

1 G3.07 **SIGN TYPE B-RM-15**- Elevation Front & Side View: Roof Access
Scale: Half Scale

Project Title:

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Plot Date:	
Scale:	

Sheet Title:
INTERIOR SIGN TYPE DRAWINGS

Sheet No.:
G3.07

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SHEET INDEX

C0.01	CIVIL INDEX, NOTES AND LEGEND
C1.00	BOUNDARY AND BUILDING LOCATION
C1.01	EXISTING CONDITIONS
C2.00	DEMOLITION PLAN
C3.00	SITE PLAN
C4.00	GRADING AND DRAINAGE PLAN
C5.00	UTILITY PLAN
C6.00	STORMWATER CONTROL PLAN
C6.01	STORMWATER CONTROL NOTES AND DETAILS
C7.00	CONSTRUCTION DETAILS
C7.01	CONSTRUCTION DETAILS
C8.00	EROSION CONTROL PLAN

ABBREVIATIONS

AB	AGGREGATE BASE
AC	ASPHALT CONCRETE
AD	AREA DRAIN
B.O.P.	BOTTOM OF PIPE
BFP	BACKFLOW PREVENTOR
C	CONDUIT
CL	CENTERLINE / CONTROL LINE
COB	CITY OF BERKELEY
CP	CONTROL POINT
DWY	DRIVEWAY
E	ELECTRIC
EBMUD	EAST BAY MUNICIPAL WATER DISTRICT
EG	EXISTING GRADE
EL / ELEV	ELEVATION
EX	EXISTING
FF	FINISH FLOOR
FG	FINISH GRADE
FL	FLOWLINE
FS	FINISH SURFACE
FW	FIRE WATER
GB	GRADE BREAK
HP	HIGH POINT
INV	INVERT
IRR	IRRIGATION
LF	LINEAR FEET
LP	LOW POINT
M.E.P.	MECHANICAL ELECTRICAL PLUMBING
MH	MAINTENANCE HOLE
NTS	NOT TO SCALE
PCC	PORTLAND CEMENT CONCRETE
POC	POINT OF CONNECTION
ROW	RIGHT OF WAY
S.A.D.	SEE ARCHITECTURAL DRAWINGS
SD	STORM DRAIN
SDJB	STORM DRAIN JUNCTION BOX
SF	SQUARE FEET
SS	SANITARY SEWER
S.S.D.	SEE STRUCTURAL DRAWINGS
STD	STANDARD
STL	STEEL
TELECOM	TELECOMMUNICATION
T.O.P.	TOP OF PIPE
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
VIF	VERIFY IN FIELD
W	WATER

CONSTRUCTION NOTES:

1. SAWCUT EXISTING PAVEMENT AT LIMIT OF WORK, TYPICAL.
2. PROTECT AND PRESERVE ALL SURVEY MONUMENTS. SEE MONUMENT PRESERVATION NOTE BELOW.
3. PROTECT ALL DRAINAGE AND SEWAGE STRUCTURES AND PIPES FROM INFILTRATION OF ALL CONSTRUCTION DEBRIS FOR THE DURATION OF THE WORK.

PRESERVATION OF SURVEY MONUMENTS

ALL CITY OF BERKELEY MONUMENTS LOCATED WITHIN THE PROJECT AREA MUST BE REFERENCED, PRIOR TO WORK COMMENCING, BY A LICENSED LAND SURVEYOR AS REQUIRED BY SECTION 8771 OF THE BUSINESS AND PROFESSIONS CODE. CORNER RECORDS OF THIS WORK MUST BE SUBMITTED FOR FILING TO BOTH THE COUNTY SURVEYOR OF ALAMEDA COUNTY, AND THE CITY OF BERKELEY PUBLIC WORKS DEPARTMENT, ENGINEERING DIVISION, SURVEY SECTION.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PRESERVATION OF EXISTING SURVEY MONUMENTS, BENCHMARKS, REFERENCE MARKS AND STAKES. SHOULD ANY SURVEY MONUMENTS, BENCHMARKS, REFERENCE POINTS, OR STAKES BE DAMAGED OR DESTROYED DURING THE PERFORMANCE OF THIS WORK, THE CONTRACTOR SHALL REPLACE SAID ITEMS PER CITY STANDARDS IN ACCORDANCE WITH THE SPECIAL PROVISIONS AND CONTACT A CITY OF BERKELEY, SURVEY SECTION, CHIEF OF PARTY FOR FINAL INSPECTION AND ACCEPTANCE OF THE WORK.

GENERAL NOTES:

1. ALL MEASURED DISTANCES AND DIMENSIONS ARE SHOWN IN DECIMAL FEET THEREOF.
2. UTILITIES AS SHOWN CONFORM TO AVAILABLE RECORD DATA. THE EXISTENCE, LOCATION AND CHARACTERISTICS OF UNDERGROUND UTILITY INFORMATION SHOWN ON THESE PLANS HAVE BEEN OBTAINED FROM A REVIEW OF AVAILABLE RECORD DATA. NO REPRESENTATION IS MADE AS TO THE ACCURACY OR COMPLETENESS OF SAID UTILITY INFORMATION. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY LOCATION AND DEPTHS BY POTHOLING OF ALL UTILITIES WITH APPROPRIATE AGENCIES, AND TO TAKE PRECAUTIONARY MEASURES TO PROTECT THE UTILITY LINES SHOWN AND ANY OTHER LINES NOT OF RECORD OR NOT SHOWN ON THESE PLANS. ANY CONFLICTS SHALL BE REPORTED IMMEDIATELY TO THE ENGINEER.
3. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING ADEQUATE DRAINAGE OF THE SITE, DURING INTERIM CONDITIONS OF CONSTRUCTION.
4. CONTRACTOR SHALL PROVIDE ALL MATERIAL, LABOR, EQUIPMENT, FOR INSTALLATION, IMPLEMENTATION, AND MAINTENANCE OF ALL SURFACE WATER POLLUTION PREVENTION MEASURES THROUGHOUT THE FULL EXTENT OF THE PROJECT. SURFACE WATER IS CLASSIFIED AS ANY BODY OF WATER ABOVE GROUND.
5. OVERHEAD UTILITY SERVICE DROPS ARE NOT SHOWN ON THE PLANS. THE CONTRACTOR SHALL INVESTIGATE THE SITE AND BE AWARE OF LIMITED OVERHEAD CLEARANCES.
6. ALL MAINTENANCE HOLES, CLEANOUTS AND WATER VALVES SHALL BE ADJUSTED TO GRADE WITHIN 48 HOURS OF PAVING. ALL PAVING SHALL BE COMPLETED WITHIN 24 HOURS OF RAISING THE UTILITY TO GRADE.
7. REVOCABLE ITEM - THE CONTRACTOR SHALL BE RESPONSIBLE FOR SETTING ALL UTILITY BOXES TO THE GRADE OF THE FINISHED SIDEWALK OR GUTTER PRIOR TO THE POUR, INCLUDING COORDINATING WITH ALL UTILITY PROVIDERS AND/OR CLEANING AND CLEARING OF CONCRETE MORTAR FROM ALL UTILITY BOXES IN THE AREA SO THEY ARE FULLY ACCESSIBLE UPON COMPLETION OF THE SIDEWALK INSTALLATION.
8. PAVEMENT MARKINGS DISTURBED, DAMAGED IN ANY FORM, OR TO ANY DEGREE WHILE THE CONTRACTOR HAS CUSTODY OF THE SITE SHALL BE REPLACED IN THEIR ENTIRETY AT CONTRACTOR'S EXPENSE.
9. CONTRACTOR SHALL CONTACT CITY ARBORIST IN ADVANCE OF ANY DEMOLITION. CONTRACTOR SHALL ADHERE TO CITY SPECIFICATIONS AND RECOMMENDATIONS FOR TREE PRESERVATION.
10. TREE PROTECTION - PROVIDE FOR WRAPPING TREES, KEEPING EXPOSED ROOTS MOIST, AND USE OF AIR TOOLS FOR EXCAVATING. MEET WITH CITY ARBORIST BEFORE ANY WORK IS DONE.
11. AN ENGINEERING PERMIT WILL BE REQUIRED FOR ANY WORK IN THE PUBLIC RIGHT-OF-WAY, INCLUDING BUT NOT LIMITED TO CONSTRUCTION STAGING, RESERVED CONSTRUCTION PARKING, SIDEWALK, DRAINAGE, OR SEWER WORK. APPROVAL OF THIS BUILDING PERMIT DOES NOT AUTHORIZE WORK IN THE PUBLIC RIGHT-OF-WAY. THE ENGINEERING PERMIT MUST BE ISSUED PRIOR TO ANY WORK IN THE PUBLIC RIGHT-OF-WAY. 1

POLLUTION CONTROL NOTES:

1. IF SIGNIFICANT SEDIMENT OR OTHER VISUAL SYMPTOMS OF IMPURITIES ARE NOTICED IN THE STORM WATER, CONTACT THE CITY ENGINEER IMMEDIATELY.
2. CONTRACTOR IS RESPONSIBLE FOR INSPECTION AND RESTORATION OF ALL ASPECTS OF THIS PLAN. SEDIMENT ON SIDEWALKS AND GUTTERS SHALL BE REMOVED BY SHOVEL AND/OR BROOM AND PLACED IN STOCKPILES.
3. ALL DUMPSTERS OR OTHER TRASH STORAGE ENCLOSURES SHALL BE UTILIZED SOLELY FOR NON-HAZARDOUS MATERIALS.
4. ALL EMPLOYEES, CONTRACTORS, AND SUBCONTRACTORS ARE RESPONSIBLE FOR CONFORMING TO THE ELEMENTS SHOWN ON THIS PLAN OR RELATED DOCUMENTS.
5. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL PERMITS AND FILING ALL PLANS WITH RELATED AGENCIES ASSOCIATED WITH THEIR WORK. THIS SHALL INCLUDE, BUT NOT BE LIMITED TO, PERMITS FOR STORAGE OF HAZARDOUS MATERIALS, BUSINESS PLANS, PERMITS FOR STORAGE OF FLAMMABLE LIQUIDS, GRADING PERMITS, OR OTHER PLANS OR PERMITS REQUIRED BY ALAMEDA COUNTY, THE CITY OF BERKELEY, OR OTHER AGENCIES. ALL CONTRACTORS, OR SUBCONTRACTORS WORKING ON-SITE ARE INDIVIDUALLY RESPONSIBLE FOR OBTAINING AND SUBMITTING ANY BUSINESS PLANS OR PERMITS REQUIRED BY CITY, STATE OR LOCAL AGENCIES.
6. CONTRACTOR SHALL LOCATE STORAGE, DELIVERY, OR WASH-OUT AREAS, TO SUIT THEIR OPERATIONS. CONTRACTOR TO MAINTAIN SECONDARY CONTAINMENT AS NECESSARY TO PROHIBIT POLLUTION AND TOXIC MATERIALS FROM ENTERING STORM DRAIN.
7. CONTRACTOR SHALL UTILIZE SILT FILTERS DURING CONCRETE CONSTRUCTION NEAR EXISTING STORM DRAINAGE SYSTEM. AFTER COMPLETION OF THE SIDEWALK, DRIVEWAYS, CURB, GUTTER, AND PAVING, THE SILT FILTERS SHALL BE MODIFIED TO BURLAP SACKS FILLED WITH 3/4" DRAIN ROCK OR OTHER ACCEPTED BMP POSITIONED SURROUNDING EACH CATCH BASIN.

EROSION CONTROL NOTES:

1. NO VEHICLES SHALL BE ALLOWED TO TRACK OR SPREAD SOIL FROM THE CONSTRUCTION AREAS ONTO EXISTING PAVED PUBLIC STREETS.
2. THE EROSION AND SEDIMENT CONTROL MEASURES SHALL BE OPERABLE YEAR ROUND.
3. DURING THE RAINY SEASON, ALL PAVED AREAS WILL BE KEPT CLEAR OF EARTH MATERIAL AND DEBRIS. THE SITE WILL BE MAINTAINED SO THAT A MINIMUM OF SEDIMENT-LADEN RUNOFF ENTERS THE STORM DRAIN SYSTEM. THESE PLANS SHALL REMAIN IN EFFECT UNTIL THE IMPROVEMENTS ARE ACCEPTED BY THE CITY, AND ALL SLOPES ARE STABILIZED FROM EROSION.

URBAN RUNOFF POLLUTION NOTES:

1. STABILIZE ALL DENUDED AREAS AND MAINTAIN EROSION CONTROL MEASURES CONTINUOUSLY FOR THE DURATION OF THE PROJECT.
2. REMOVE SPOILS PROMPTLY AND AVOID STOCKPILING OF FILL MATERIALS WHEN RAIN IS FORECAST. IF RAIN THREATENS, STOCK- PILED SOILS AND OTHER MATERIALS SHALL BE TARPED, AT THE REQUEST OF THE ENGINEER.
3. STORE, HANDLE AND DISPOSE OF CONSTRUCTION MATERIALS AND WASTES SO AS TO PREVENT THEIR ENTRY TO THE STORM DRAIN SYSTEM. CONTRACTOR MUST NOT ALLOW CONCRETE, WASH WATERS, SLURRIES, PAINT OR OTHER MATERIALS TO ENTER CATCH BASINS OR TO ENTER SITE RUNOFF.
4. USE FILTRATION OR OTHER MEASURES TO REMOVE SEDIMENT FROM DEWATERING EFFLUENT.
5. NO CLEANING, FUELING OR MAINTAINING VEHICLES ON SITE SHALL BE PERMITTED IN ANY MANNER THAT ALLOWS DELETERIOUS MATERIALS TO ENTER CATCH BASINS OR TO ENTER SITE RUNOFF.
6. CONTRACTOR TO RELOCATE CONCRETE WASHDOWN, VEHICLE STORAGE DELIVERY, AND NON HAZARDOUS WASTE AREAS AS NECESSARY TO FACILITATE THEIR OPERATION AND PROMOTE POLLUTION CONTROL.

BMP IMPLEMENTATION SCHEDULE:

1. BMP'S APPROPRIATE FOR THE WORK BEING DONE SHALL BE IN PLACE AT ALL TIMES.
2. PERIMETER CONTROL, EXISTING INLET PROTECTION, AND CONSTRUCTION ENTRANCE SHALL BE INSTALLED PRIOR TO ANY DEMOLITION.
3. ALL OTHER BMP'S SHALL BE INSTALLED AT COMPLETION OF CONSTRUCTION OF EACH INLET.

LINETYPES

EXISTING		PROPOSED
	BOUNDARY LINE	N/A
CTV	CABLE TELEVISION	N/A
30	CONTOUR - MAJOR	30
	CONTOUR - MINOR	
	FENCE	
	FLOWLINE / SWALE	
N/A	LIMITS OF CONSTRUCTION	
E	ELECTRICAL LINE	E
F	FIRE WATER	F
G	GAS LINE	N/A
L	LIGHTING	N/A
SS	SANITARY SEWER	SS
SD	STORM DRAIN	
T	TELECOM LINE	T
W	WATER	W

SYMBOLS

EXISTING		PROPOSED
	SIGN	
	LIGHT - POST MOUNTED	
SSCO	SANITARY SEWER - CLEANOUT	SSCO
SS	SANITARY SEWER - MANHOLE	N/A
	STORM DRAINAGE - AREA DRAIN	
N/A	STORM DRAINAGE - POP-UP EMITTER	
SDCO	STORM DRAINAGE - CLEANOUT	SDCO
	STORM DRAINAGE - DROP INLET	
N/A	STORM DRAINAGE - JUNCTION BOX	SD
SD	STORM DRAINAGE - MAINTENANCE HOLE	SD
GV	GAS VALVE	N/A
	FIRE DEPARTMENT CONNECTION	
	FIRE HYDRANT	N/A
WM	WATER METER	WM
	THRUST BLOCK - 11 ¼° BEND	
	THRUST BLOCK - 22 ½° BEND	
	THRUST BLOCK - 45° BEND	
	THRUST BLOCK - 90° BEND	
	THRUST BLOCK - TEE	
WV	WATER VALVE	WV
	FOUND / SET - CONTROL POINT	

LEGEND

- TRENCH RESTORATION PER C.O.B STD PLAN 8136
- BUILDING EXTENSION (S.A.D.)
- TRAFFIC RATED CONCRETE (SEE DETAIL 1, SHEET C7.00)
- NON-TRAFFIC RATED CONCRETE (SEE DETAIL 1, SHEET C7.00)
- HMA PLUG (TYPE A, 8" MIN.)
- DETECTABLE WARNING SURFACE (SEE DETAIL 5, SHEET C7.00)
- PERVIOUS PAVERS (SEE DETAIL 5, SHEET C7.01)
- FLOW-THROUGH PLANTER
- CLASS II AB (6" MIN.)

1.0' SYMBOL DENOTES RETAINED WALL HEIGHT (DECIMAL FEET). WHERE WALL HEIGHT VARIES, MAX HEIGHT IS INDICATED. UNLESS NOTED ON PLAN, ALL TOP OF WALLS (TW) ARE INTENDED TO BE FLAT. FINISHED SURFACE (FS) CALLOUTS INDICATE THE FINISH SURFACE AT THE TOE OF WALL AND DO NOT ACCOUNT FOR THE GRADE DIFFERENCE BETWEEN FINISH SURFACE AND TOP OF FOOTING.

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MLK JR YOUTH SERVICES CENTER / YAP
SEISMIC RETROFIT AND RENOVATION
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APN#: 053-1676-001-02

Design Firm:
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Stamp:

REGISTERED PROFESSIONAL ENGINEER
FRED B. DIAZ
No. C90534
CIVIL
STATE OF CALIFORNIA

No.	Description	Date
	PERMIT SET	12/04/24
1	PLAN CHECK #1	03/07/25

Issue Note: PERMIT RESUBMITTAL 03/07/25

City Plan No.:	8286
City File No.:	402-145
Specification No.:	#25-11695-C
Project ID:	YAP
Drawn by:	JD
Checked by:	RS
Plot Date:	
Scale:	

Sheet Title: CIVIL INDEX, GENERAL NOTES, AND LEGEND

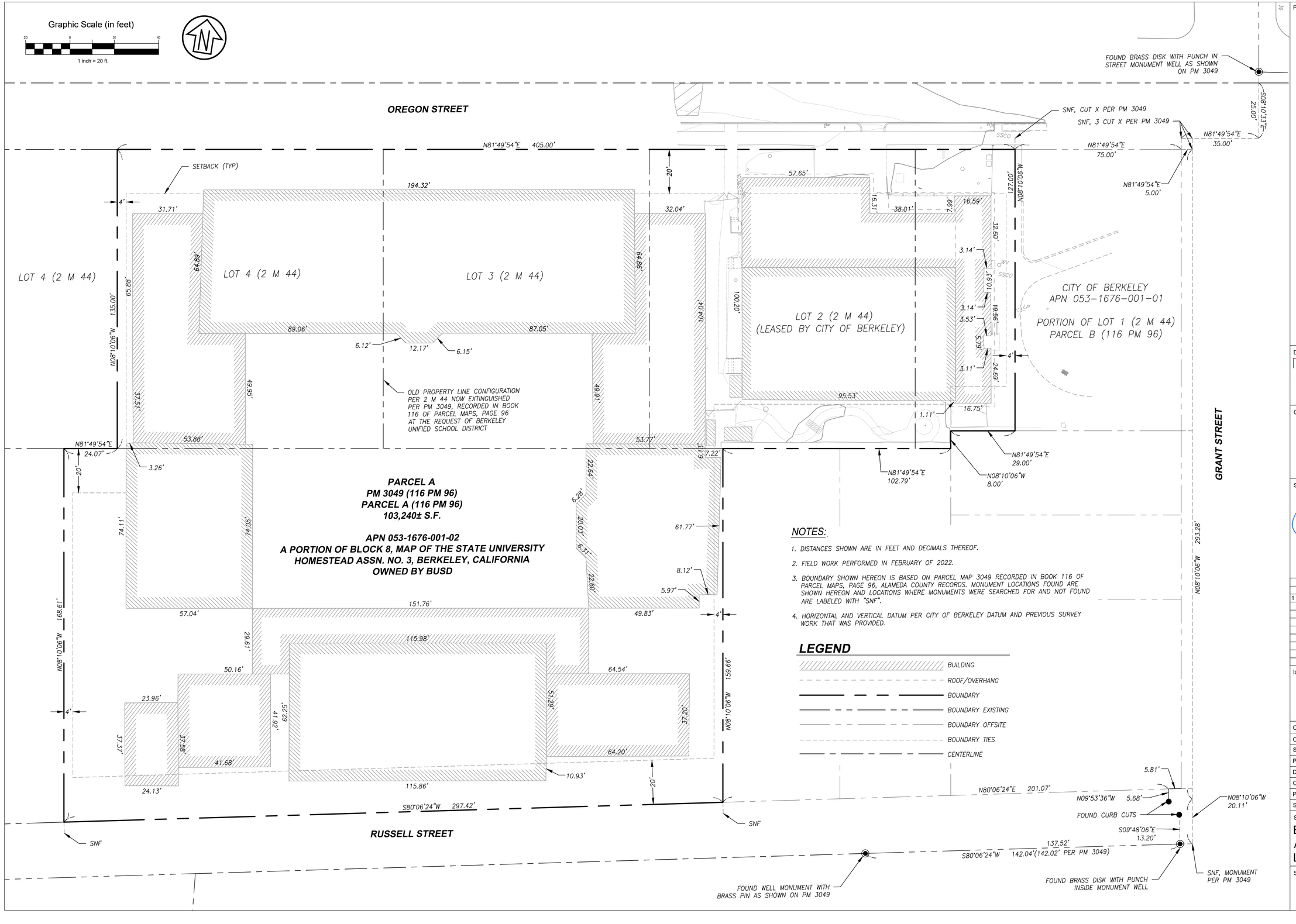
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Graphic Scale (in feet)

20 0 20 40

1 inch = 20 ft.



NOTES:

1. DISTANCES SHOWN ARE IN FEET AND DECIMALS THEREOF.
2. FIELD WORK PERFORMED IN FEBRUARY OF 2022.
3. BOUNDARY SHOWN HEREON IS BASED ON PARCEL MAP 3049 RECORDED IN BOOK 116 OF PARCEL MAPS, PAGE 96, ALAMEDA COUNTY RECORDS. MONUMENT LOCATIONS FOUND ARE SHOWN HEREON AND LOCATIONS WHERE MONUMENTS WERE SEARCHED FOR AND NOT FOUND ARE LABELED WITH "SNF".
4. HORIZONTAL AND VERTICAL DATUM PER CITY OF BERKELEY DATUM AND PREVIOUS SURVEY WORK THAT WAS PROVIDED.

LEGEND

- BUILDING
- ROOF/OVERHANG
- BOUNDARY
- BOUNDARY EXISTING
- BOUNDARY OFFSITE
- BOUNDARY TIES
- CENTERLINE

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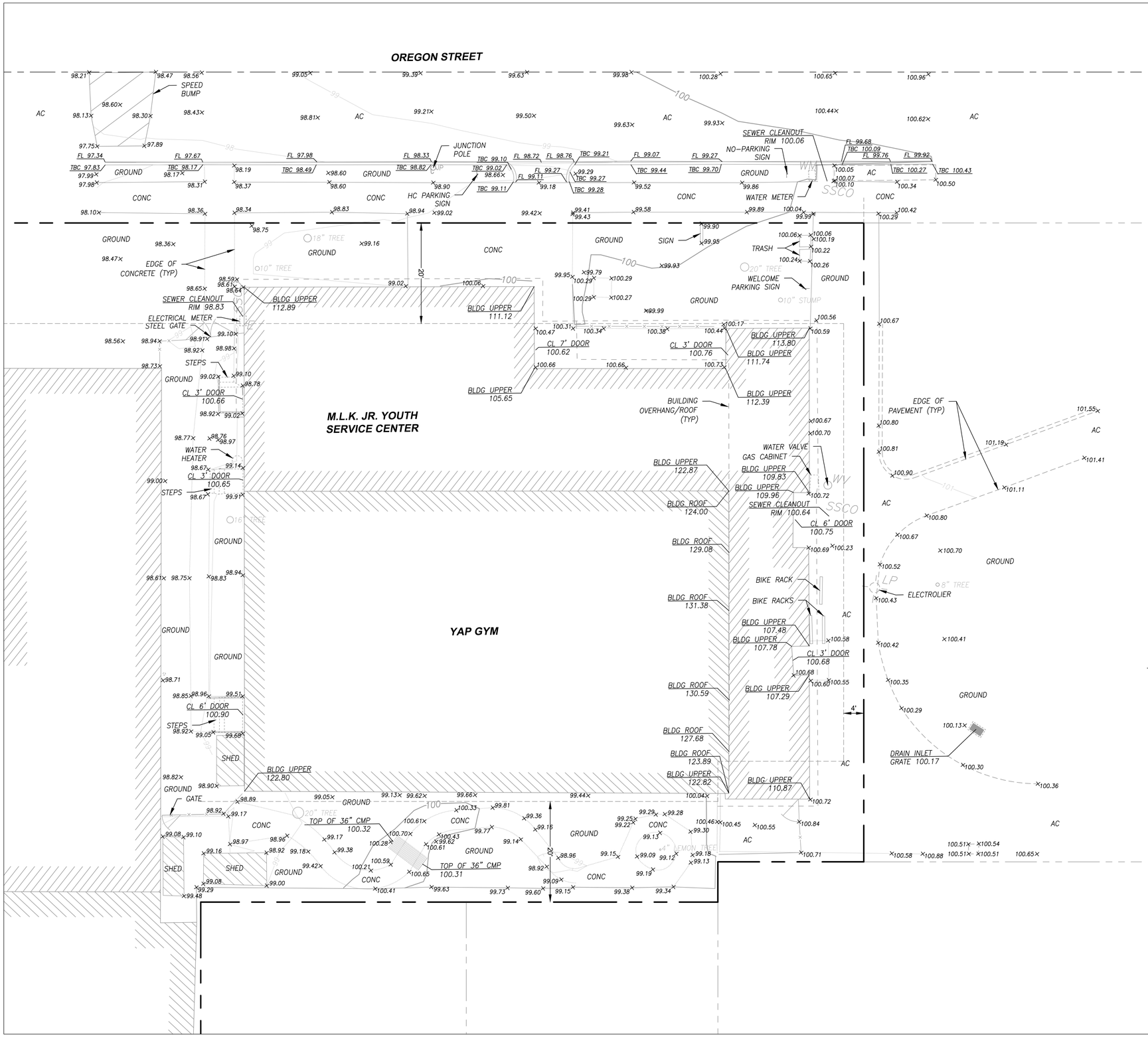
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Scale:	

Sheet Title:
BOUNDARY AND BUILDING LOCATIONS

Sheet No.:
C1.00

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Graphic Scale (in feet)

10 0 10 20

1 inch = 10 ft.

ABBREVIATIONS

AC	ASPHALTIC CONCRETE
BFP	BACK FLOW PREVENTER
BLDG	BUILDING
C	CONIFEROUS
CL	CENTER LINE
CONC	CONCRETE
D	DECIDUOUS
DEP	DEPRESSED
E	ELECTRIC
EOC	EDGE OF CONCRETE
EP	EDGE OF PAVEMENT
ELEC	ELECTRICAL
FDC	FIRE DEPARTMENT CONNECTION
FH	FIRE HYDRANT
FL	FLOW LINE
G	GAS
GV	GAS VALVE
HC	HANDICAP
HV	HIGH VOLTAGE
HYD	HYDRANT
IRR	IRRIGATION
L	LIGHTING CONDUIT
OH	OVERHANG
RR	RAILROAD
SD	STORM DRAIN
SL	STREET LIGHT
SS	SANITARY SEWER
TC	TOP OF CURB
TELE	TELEPHONE
TYP	TYPICAL
TW	TOP OF WALL
W	WATER
WV	WATER VALVE

LEGEND

- BUILDING
- ROOF/OVERHANG
- CONTOUR MAJOR (5' INTERVAL)
- CONTOUR MINOR (1' INTERVAL)
- FENCE
- EDGE OF CONCRETE
- EDGE OF PAVEMENT

NOTES

1. DISTANCES SHOWN ARE IN FEET AND DECIMALS THEREOF.
2. HORIZONTAL DATUM IS NORTH AMERICAN DATUM OF 1983 (NAD 83) PER CALIFORNIA REAL TIME NETWORK (CRTN), EPOCH 2017.5.
3. VERTICAL DATUM IS NORTH AMERICAN DATUM OF 1988 (NAVD88) PER CALIFORNIA REAL TIME NETWORK (CRTN), EPOCH 2017.5.
4. TOPOGRAPHY SHOWN WAS PERFORMED BY FIELD SURVEY IN FEBRUARY OF 2022.

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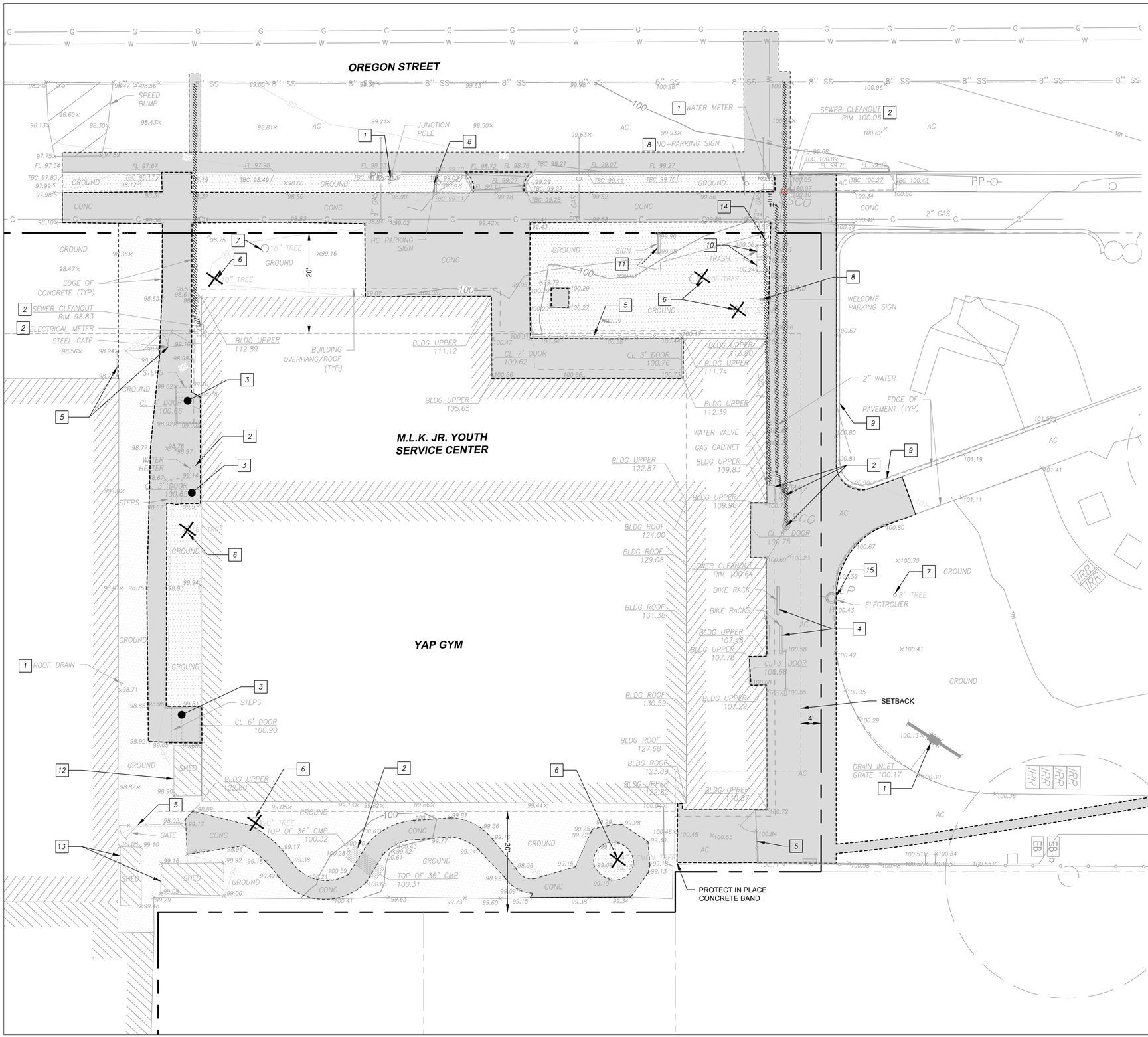
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EXISTING CONDITIONS

Sheet No.:

C1.01

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Graphic Scale (in feet)

10 0 10 20

1 inch = 10 ft.

LEGEND

- SAWCUT, REMOVE AND DISPOSE CONCRETE CURB, GUTTER, FLATWORK TO NEAREST JOINT BEYOND (INCLUDING BASEROCK) OR REMOVE AND DISPOSE 8" AC PAVEMENT
- CLEAR, GRUB AND DISPOSE. USE HAND TOOLS NEAR TREES TO BE PROTECTED IN PLACE.
- SAWCUT LINE
- REMOVE AND DISPOSE UTILITY, TEMPORARILY CAP ENDS UNTIL NEW TIE-IN, SEE SHEET C4.00
- REMOVE AND DISPOSE TREE (INCLUDING ROOT BALL AND ALL ORGANIC MATTER UP TO 15" MIN. BELOW GRADE)

KEYNOTES

1	PROTECT IN PLACE UTILITY
2	REMOVE AND DISPOSE UTILITY
3	REMOVE AND DISPOSE STAIR CASE (INCLUDING, RAILINGS, POSTS, FOUNDATION AS NECESSARY FOR NEW IMPROVEMENTS. REMAINING FOUNDATION, IF ANY, CAN BE ABANDONED IN PLACE)
4	REMOVE AND SALVAGE BIKE RACKS, RETURN TO CITY
5	REMOVE AND DISPOSE FENCE AND GATE (WHERE OCCURS, INCLUDING POST, MESH, FOUNDATION, AND ANY OTHER APPURTENANCES)
6	REMOVE AND DISPOSE TREE, GRIND STUMP AND ROOTS TO 15" MIN. BELOW GRADE
7	PROTECT IN PLACE TREE
8	REMOVE SIGN POST, SALVAGE EX. SIGN, TO BE RELOCATED
9	PROTECT IN PLACE WALL
10	SALVAGE TRASH RECEPTACLE, TO BE RELOCATED
11	REMOVE AND DISPOSE SIGN AND FOUNDATION
12	REMOVE AND DISPOSE SHED
13	SALVAGE SHED, TO BE RELOCATED
14	CAP GAS LINE 12" FROM PROPERTY LINE. CONTRACTOR SHALL CONTACT PG&E 10 BUSINESS DAYS IN ADVANCE OF DEMOLISHING GAS LATERAL
15	REMOVE, SALVAGE, AND CLEAN LIGHT POLE, RETURN TO CITY

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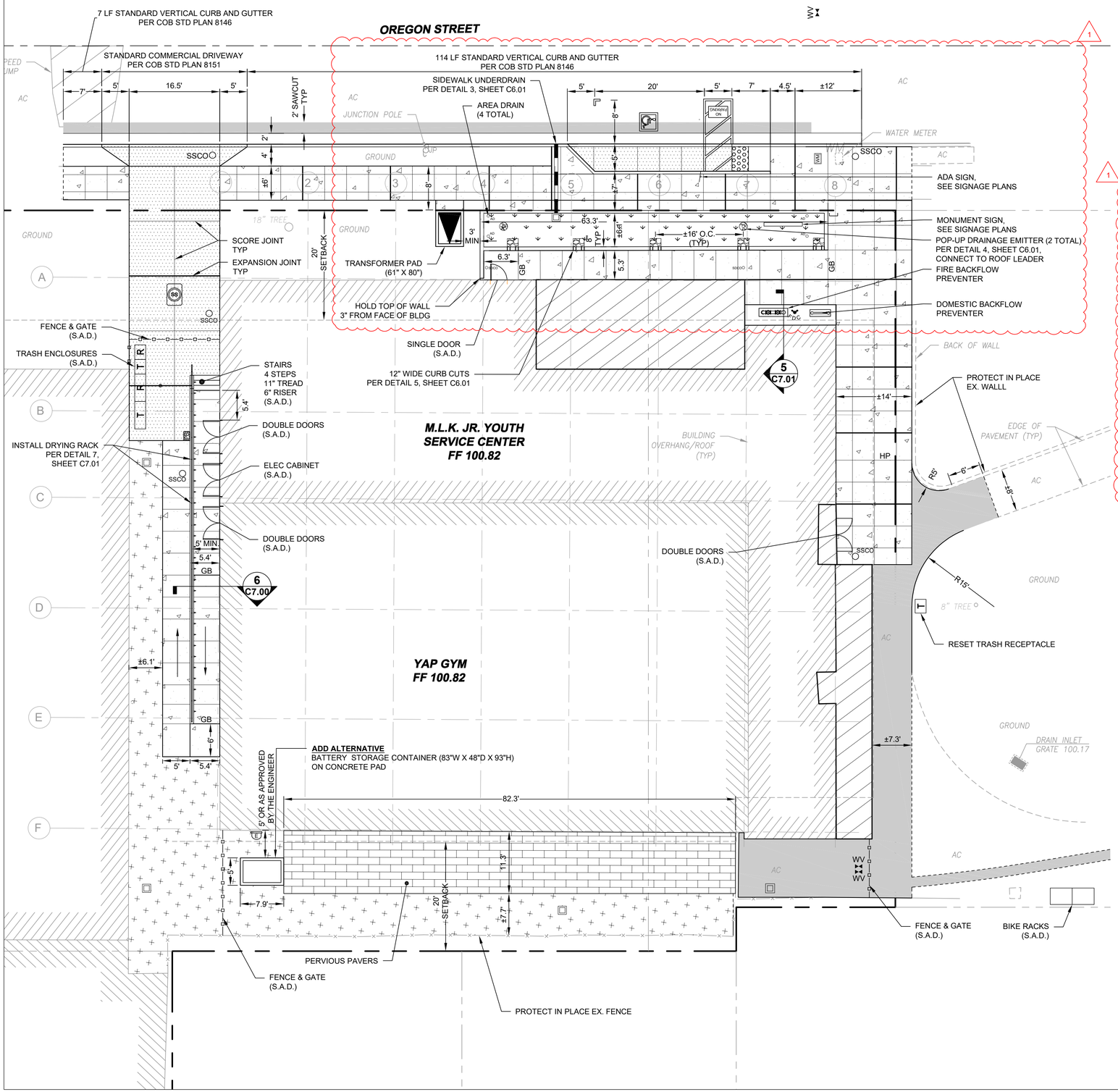
Issue Note: PERMIT RESUBMITTAL 03/07/25

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Specification No.:	#25-11695-C
Project ID:	YAP
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Plot Date:	
Scale:	

Sheet Title: DEMOLITION PLAN

Sheet No.: C2.00

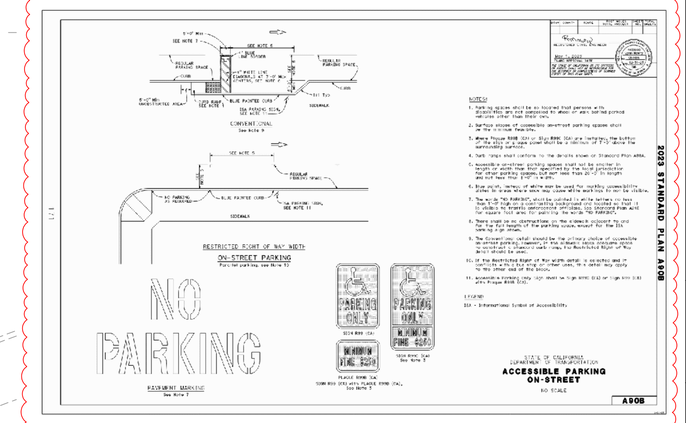
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10 0 10 20

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Issue Note: PERMIT RESUBMITTAL 03/07/25

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City File No.:	402-145
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Project ID:	YAP
Drawn by:	JD
Checked by:	RS
Plot Date:	
Scale:	

Sheet Title: SITE PLAN

Sheet No.: C3.00

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Graphic Scale (in feet)

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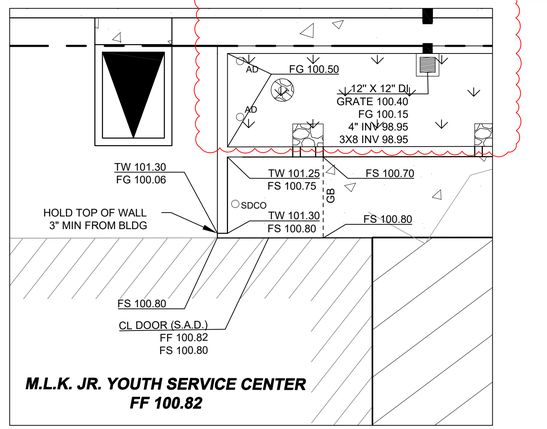
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GRADING QUANTITIES

CUT: 200 C.Y.
FILL: 30 C.Y.
NET: 170 C.Y. <CUT>

1. PROPOSED FINISH GRADE IS DEFINED AS THE FINAL GRADE AS INDICATED ON THE GRADING PLAN.

2. THE EARTHWORK QUANTITIES ABOVE HAVE NOT BEEN ADJUSTED TO ACCOUNT FOR:
   - A. SLABS
   - B. FOOTINGS
   - C. TRENCH SPOILS
   - D. CLEARING AND GRUBBING INCLUDING REMOVAL OF EXISTING PAVEMENT SECTIONS OR UNACCEPTABLE SOILS
   - E. BULKING OR SHRINKAGE
   - F. OVER-EXCAVATION AND RE-COMPACTION
   - G. TOPSOIL
   - H. CONSTRUCTION METHODS



1 **GRADING ENLARGEMENT**
SCALE: 1" = 5'

Project Title:

CITY OF BERKELEY
PARKS, RECREATION & WATERFRONT DEPARTMENT
MLK JR YOUTH SERVICES CENTER / YAP
SEISMIC RETROFIT AND RENOVATION
1730 Oregon Street, Berkeley, CA 94703
APN#: 053-1676-001-02

Design Firm:
SIEGEL & STRAIN Architects
6201 Doyle Street, Suite B
Emeryville, CA 94608
TEL 510 / 547-8092
info@siegelstrain.com

Consultant:
CSW ST2
2001 Addison Street
Berkeley, CA 94704
415.883.9850
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Stamp:
REGISTERED PROFESSIONAL ENGINEER
EDUARDO B. DIAZ
No. C90534
CIVIL
STATE OF CALIFORNIA

No.	Description	Date
	PERMIT SET	12/04/24
1	PLAN CHECK #1	03/07/25

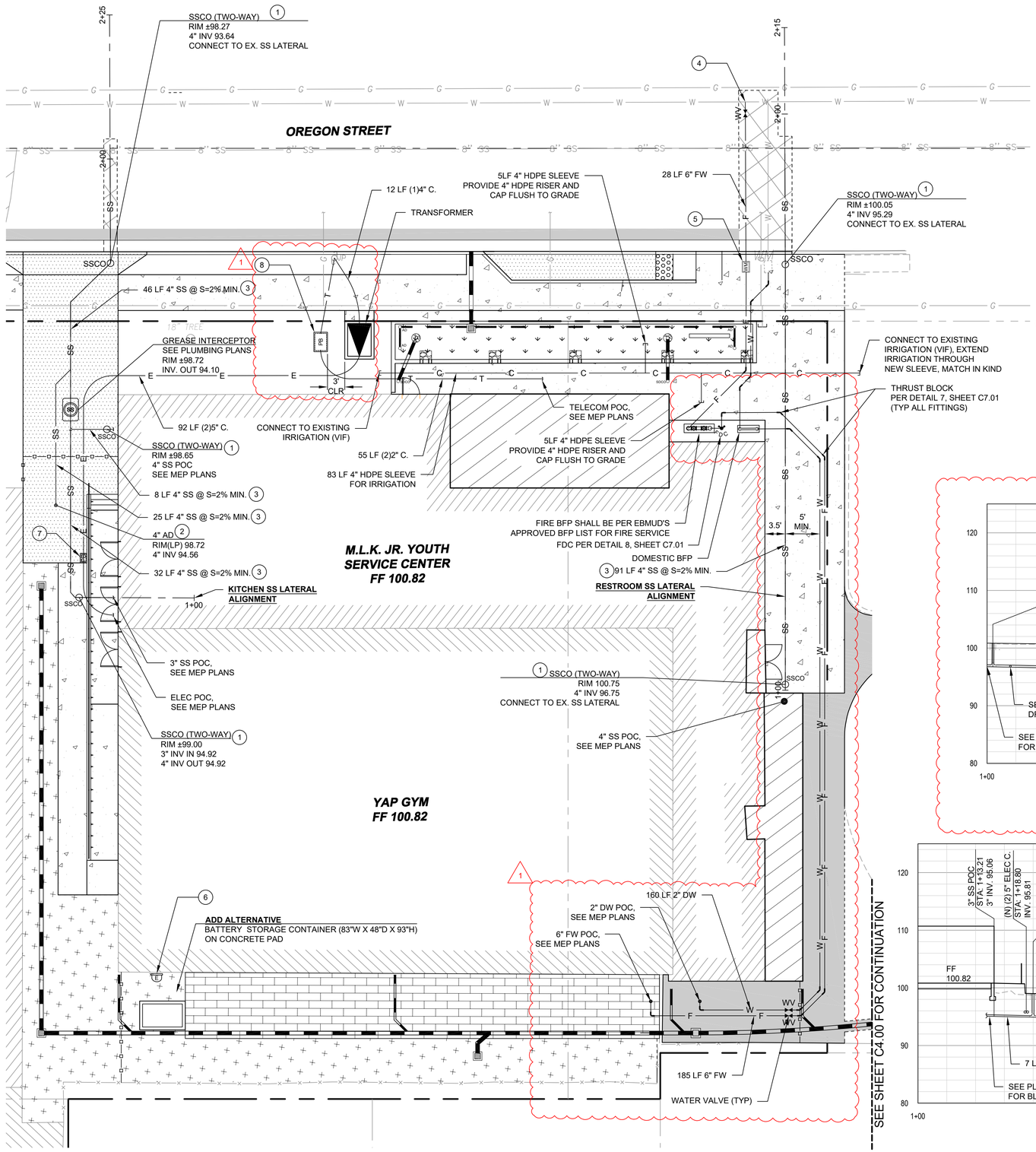
Issue Note: PERMIT RESUBMITTAL 03/07/25

City Plan No.:	8286
City File No.:	402-145
Specification No.:	#25-11695-C
Project ID:	YAP
Drawn by:	JD
Checked by:	RS
Plot Date:	
Scale:	1" = 10'

Sheet Title:
GRADING AND DRAINAGE PLAN

Sheet No.:
C4.00

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Graphic Scale (in feet)

10 0 10 20

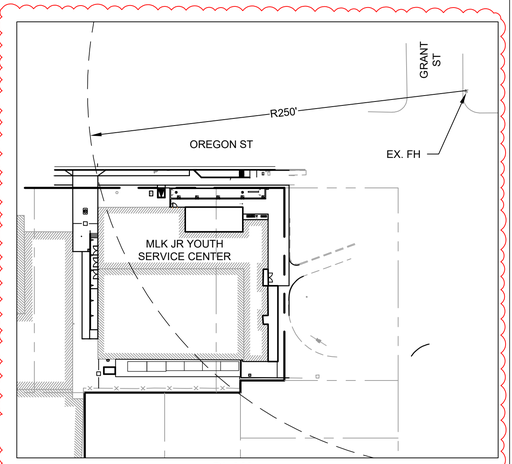
1 inch = 10 ft.

KEYNOTES

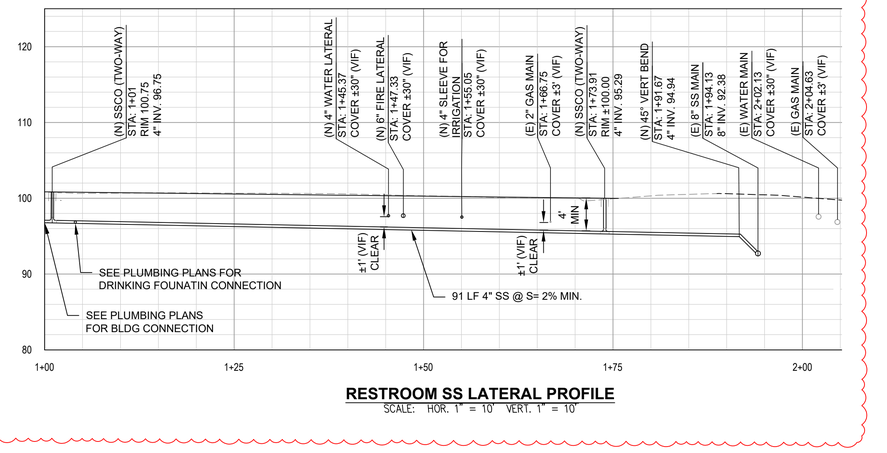
1. SANITARY SEWER CLEANOUT (TWO-WAY) PER DETAIL 2, SHEET C7.01)
2. 4" AREA DRAIN
3. 4" SANITARY SEWER LATERAL AT S=2% MIN. PER DETAIL 2, SHEET C7.01
4. POINT OF CONNECTION FOR NEW FIRE SERVICE TO EX. 8" EBMUD WATER MAIN, CONTRACTOR TO COORDINATE HOT TAP WITH EBMUD
5. 4" FIRE SERVICE DETECTOR CHECK METER TO BE INSTALLED BY EBMUD
6. WALL MOUNTED JUNCTION BOX, SEE ELECTRICAL PLANS
7. PULLBOX, SEE ELECTRICAL PLANS
8. 24" x 36" x 30" PULLBOX PER AT&T STANDARDS

NOTE:

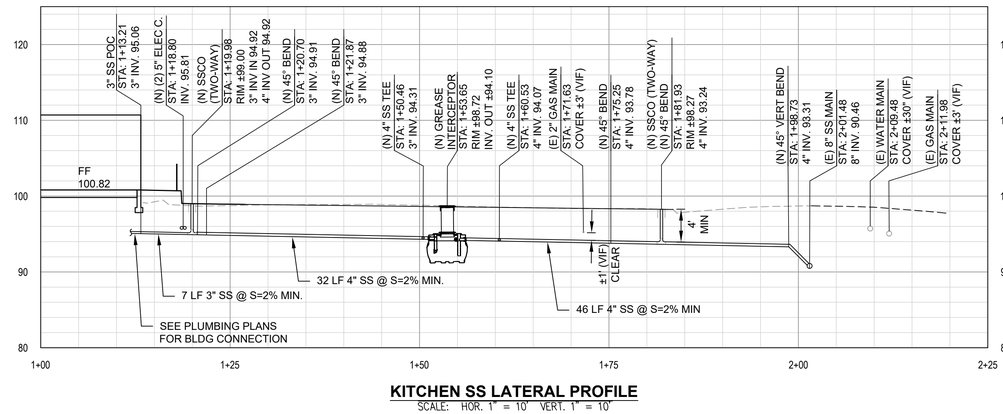
1. WATER TRENCH DETAILS SHALL BE PER EBMUD DRAWING NO. 1992-A. FOR SHALLOW UTILITY CROSSINGS SEE EBMUD DRAWING NO. 2003-A.
2. THRUST BLOCKS TO BE CONSTRUCTED PER N.F.P.A. 24 AND SHALL BE INSTALLED AT ALL WATER AND FIRE LINE FITTINGS (IE BENDS, TEES, REDUCERS, CAPS, ETC) PER DETAIL 6, SHEET C7.01.
3. ALL OTHER UTILITY TRENCHING SHALL BE PER C.O.B STD PLAN 8136



PLAN
SCALE: 1" = 50'



RESTROOM SS LATERAL PROFILE
SCALE: HOR. 1" = 10' VERT. 1" = 10'



KITCHEN SS LATERAL PROFILE
SCALE: HOR. 1" = 10' VERT. 1" = 10'

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JED B. DIAZ
No. C90534
CIVIL
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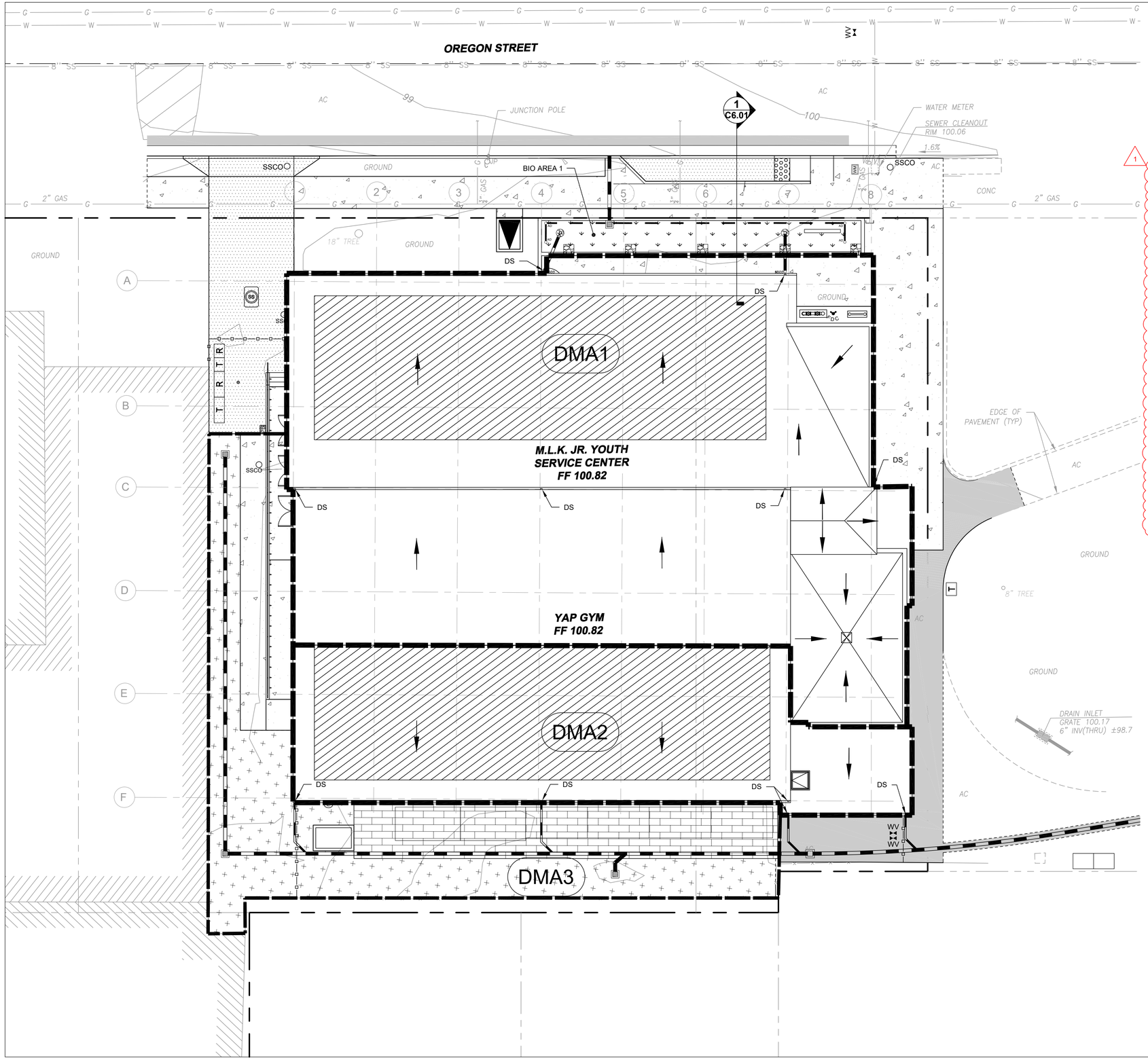
Issue Note: PERMIT RESUBMITTAL 03/07/25

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City File No.:	402-145
Specification No.:	#25-11695-C
Project ID:	YAP
Drawn by:	JD
Checked by:	RS
Plot Date:	
Scale:	1" = 10'

Sheet Title:
UTILITY PLAN

Sheet No.:
C5.00

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Graphic Scale (in feet)

10 0 10 20

1 inch = 10 ft.

1

LEGEND

- FLOW DIRECTION
- DRAINAGE MANAGEMENT AREA (DMA)
- FLOW THROUGH PLANTER
- PERVIOUS PAVERS
- GRAVEL (SELF TREATING AREA)

DMA NAME	DMA AREA (SF)	POST-PROJECT SURFACE TYPE	DMA RUNOFF FACTOR	DMA AREA X RUNOFF FACTOR	IMP NAME		
					BIO AREA 1		
DMA 1	8645	ROOF	1.0	8645	IMP SIZING FACTOR	MIN. IMP SIZE (SF)	PRO. IMP SIZE (SF)
	250	PAVEMENT	1.0	250			
	115	LANDSCAPE	0.1	12			
TOTAL >				8907	0.04	356	375

SELF-TREATING AREAS

DMA NAME	IMPERVIOUS AREA (SF)	PERVIOUS AREA (SF)
DMA 3	600	2,665

NOTE:

1. NO MODIFICATIONS TO EXISTING ROOF (3,365 SF) WITHIN DMA2. ROOF DRAINAGE PIPED TO GRANT STREET.

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REED B. DAY
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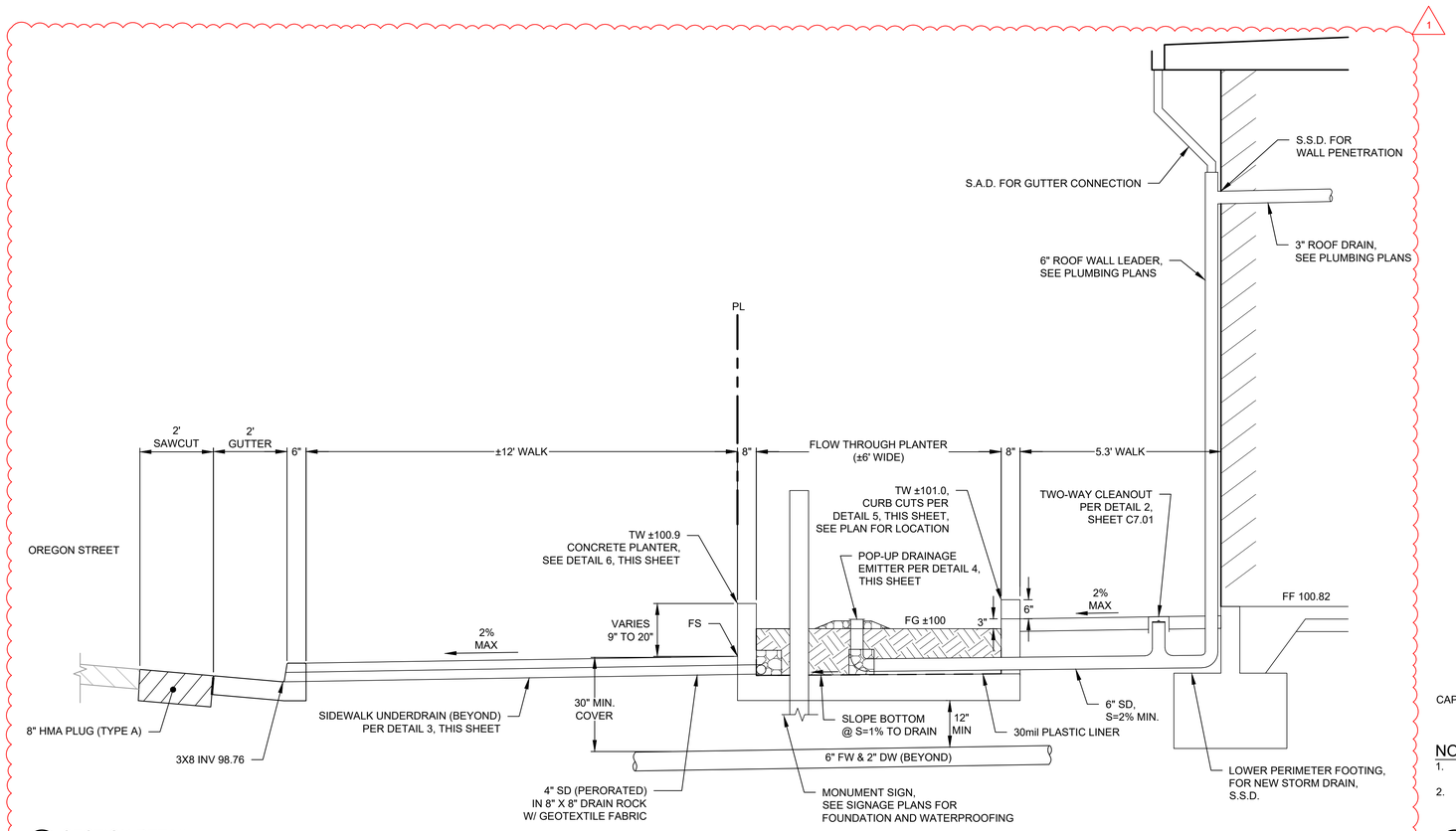
Sheet Title:

STORMWATER CONTROL PLAN

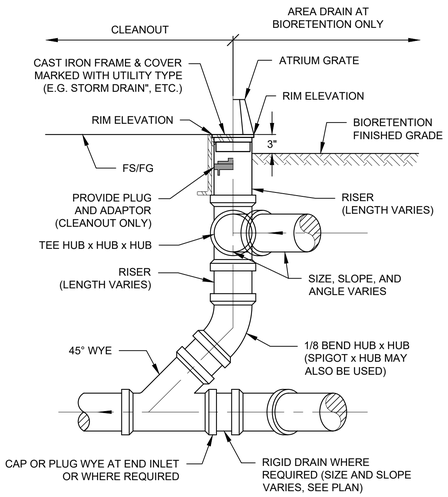
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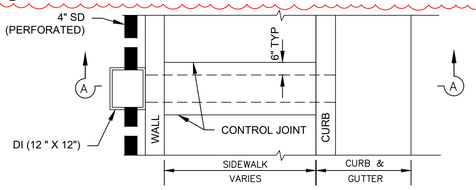


1 SECTION DETAIL
SCALE: 1" = 2'

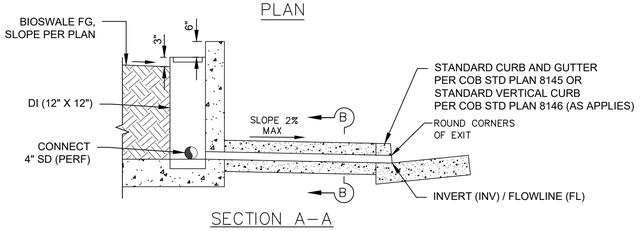


NOTES:
1. SOLVENT WELD, SLIP CONNECTIONS CAN BE SUBSTITUTED FOR THE HUB CONNECTION AT THE CONTRACTOR'S OPTION.
2. ALL INLETS AT ANGLE POINTS OR END OF LINES

2 STANDARD CLEANOUT / AREA DRAIN DETAIL
SCALE: 1" = 1'

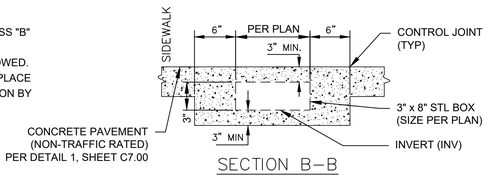


PLAN



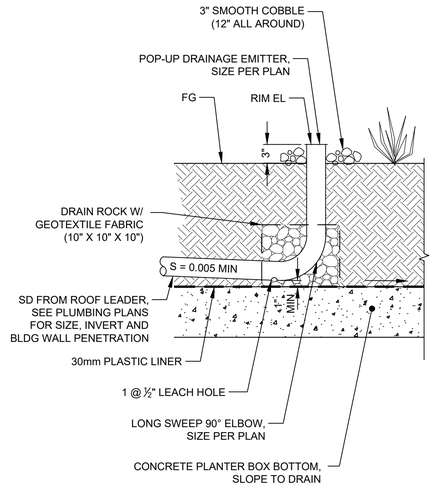
SECTION A–A

NOTES:
1. CONCRETE SHALL BE CLASS "B" (5 SACK MIX).
2. PLASTIC PIPE IS NOT ALLOWED.
3. NO CONCRETE SHALL BE PLACE PRIOR TO FORM INSPECTION BY THE ENGINEER.

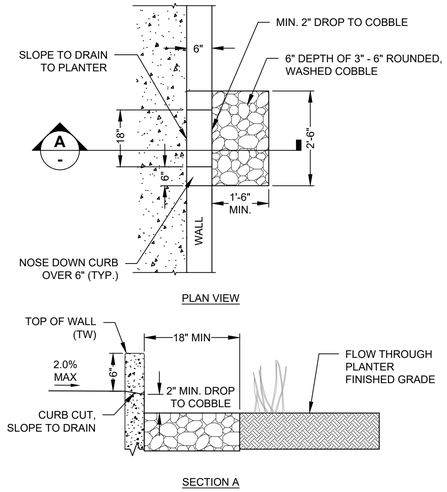


SECTION B–B

3 SIDEWALK UNDERDRAIN
SCALE: N.T.S.



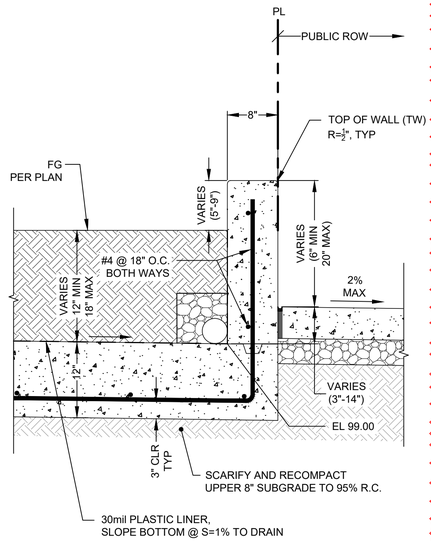
4 TYPICAL POP-UP DRAINAGE EMITTER DETAIL
SCALE: N.T.S.



SECTION A

NOTE:
1. AFTER CONSTRUCTION PLACE SAND BAGS AT CURB CUT OPENINGS TO KEEP STORM FLOWS FROM ENTERING FACILITY UNTIL VEGETATION IS ESTABLISHED.

5 CURB CUT INLET WITH GRAVEL ENERGY DISSIPATION
SCALE: 1" = 1'



6 CONCRETE PLANTER DETAIL
SCALE: 1" = 1'

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REGISTERED PROFESSIONAL ENGINEER — FRED B. DIAZ — No. C90534 — CIVIL — STATE OF CALIFORNIA

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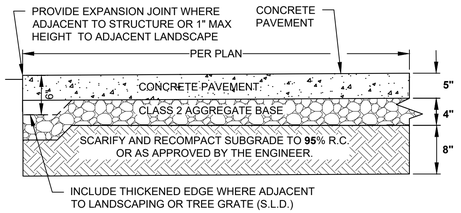
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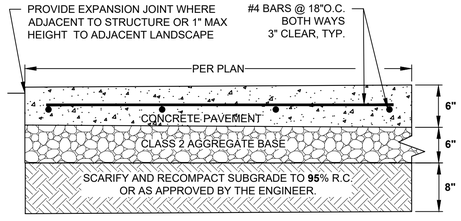
Sheet Title: STORMWATER CONTROL DETAILS

Sheet No.: C6.01

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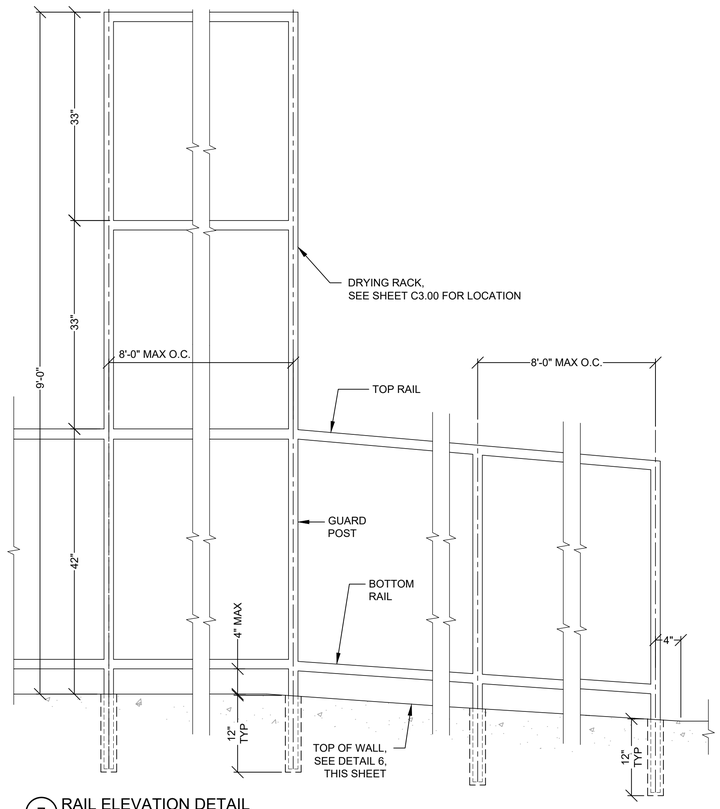
NON-TRAFFIC RATED CONCRETE SIDEWALK



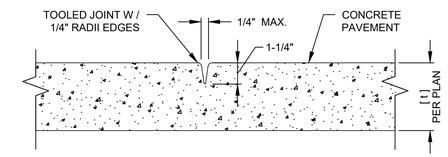
TRAFFIC RATED CONCRETE DRIVEWAY/SIDEWALK

NOTES:
1. ALL TREAD SURFACES SHALL BE SLIP RESISTANT
2. AS APPLICABLE, REUSE OF EXISTING BASEROCK SHALL BE APPROVED BY THE ENGINEER

1 TYPICAL CONCRETE PAVEMENT DETAILS
SCALE: 1" = 1'

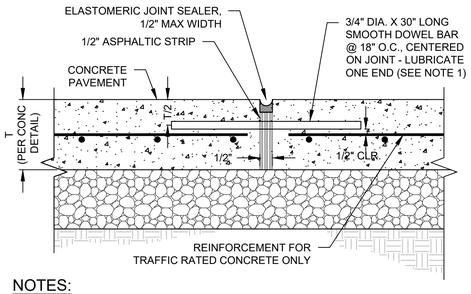


7 RAIL ELEVATION DETAIL
SCALE: 1" = 1'



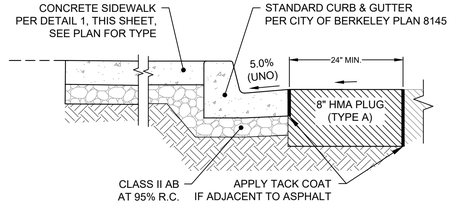
NOTES:
1. CONTROL JOINTS SHALL BE CONSTRUCTED AT 4' ON CENTER.
2. CONSTRUCT CONTROL JOINTS WITHIN 24 HOURS OF POUR.
3. SEE PLAN FOR LOCATION OF CONTROL JOINTS.

2 CONTROL JOINT FOR PEDESTRIAN CONCRETE PAVEMENT
SCALE: 1" = 1'

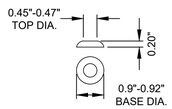


NOTES:
1. FOR UN-REINFORCED PAVEMENT SECTIONS, DOWEL MAY BE ELIMINATED.
2. REFER TO APPROPRIATE CONCRETE PAVEMENT DETAILS FOR THICKNESS OF PAVEMENT, AGGREGATE BASE, COMPACTION REQUIREMENTS AND SUBGRADE PREPARATION.
3. EXPANSION JOINTS TO BE INSTALLED AT 16' ON CENTER.

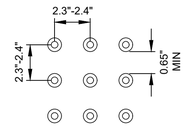
3 EXPANSION JOINT FOR CONCRETE PAVEMENT
SCALE: NTS



4 CONCRETE CURB AND GUTTER
SCALE: N.T.S.

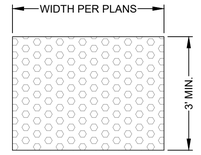


RAISED TRUNCATED DOME

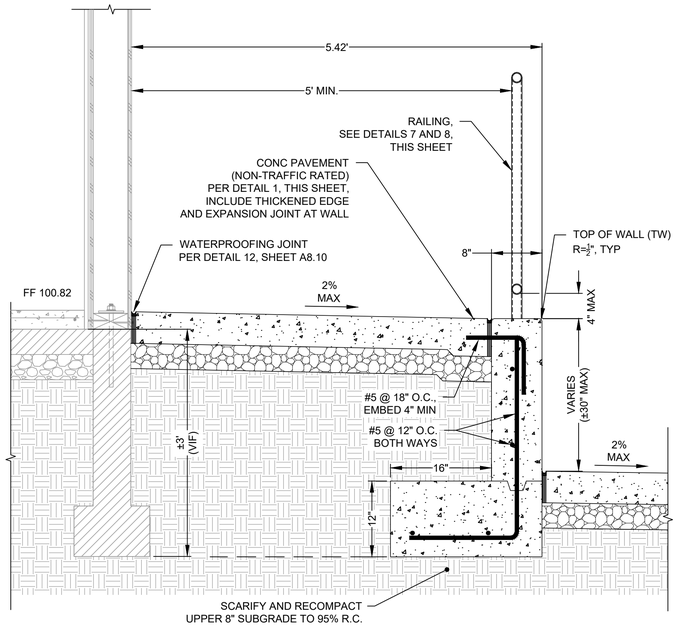


RAISED TRUNCATED DOME PATTERN (IN-LINE) DETECTABLE WARNING SURFACE

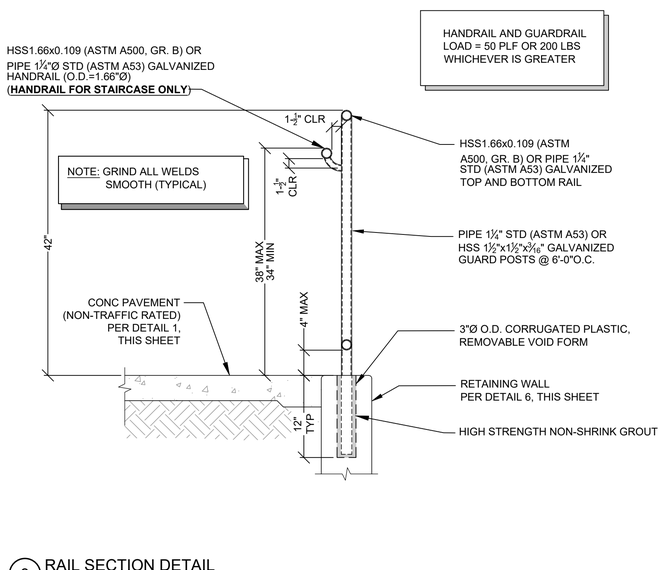
NOTES:
1. CURB RAMPS SHALL HAVE A DETECTABLE WARNING SURFACE THAT EXTENDS THE FULL WIDTH AND 3'-0" DEPTH OF THE RAMP.
2. DETECTABLE WARNING SURFACES TO BE YELLOW UNLESS OTHERWISE NOTED IN PLANS OR SPECIFICATIONS.
3. THE EDGE OF THE DETECTABLE WARNING SURFACE NEAREST THE STREET SHALL BE BETWEEN 6" AND 8" FROM THE GUTTER FLOWLINE.



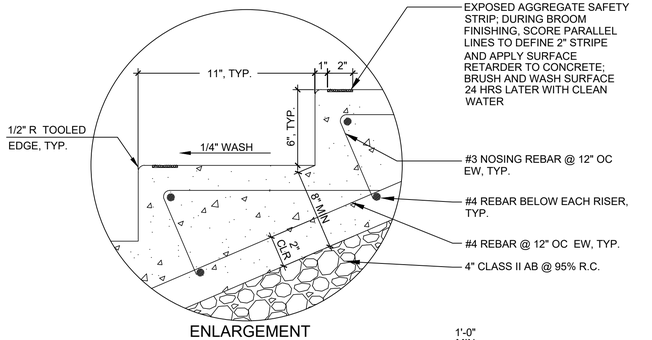
5 DETECTABLE WARNING SURFACE
SCALE: NTS



6 SECTION DETAIL
SCALE: 1" = 1'

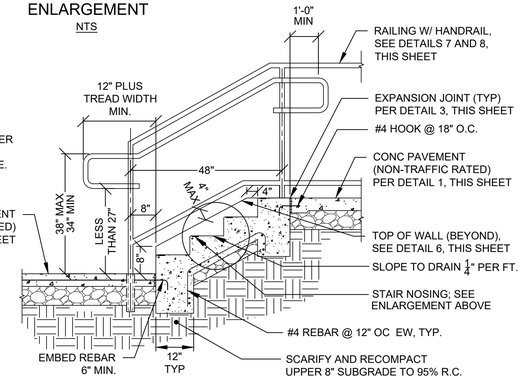


8 RAIL SECTION DETAIL
SCALE: 1" = 1'



ENLARGEMENT
NTS

NOTE:
1. ALL STAIR TREADS, RISER AND NOSING SHALL BE UNIFORM SIZE AND SHAPE.



9 CONCRETE STAIRCASE
SCALE: N.T.S.

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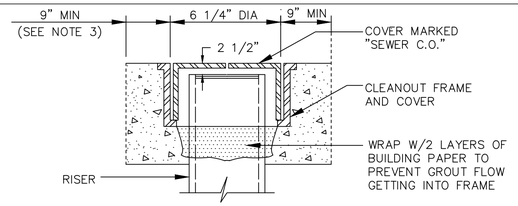
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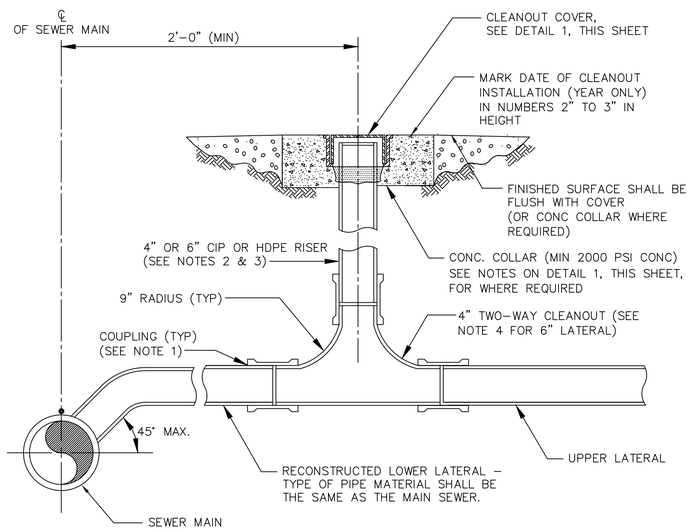


NOTES:

1. TWO WAY CLEANOUT PER DETAIL 2, THIS SHEET. LOCATION PER PLAN.
2. WHEN RISER IS NOT SURROUNDED BY SIDEWALK, A 2'X2'X8", 2,000 PSI CONCRETE COLLAR SHALL BE INSTALLED..
3. EXISTING SIDEWALK SHALL BE NEATLY SAWN TO A STRAIGHT AND SQUARE EDGE BEFORE 2,000 PSI CONCRETE PATCH IS INSTALLED AROUND FRAME.

1 SANITARY SEWER CLEANOUT COVER (4" DIAMETER)

SCALE: N.T.S.

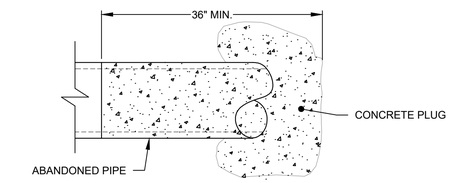


NOTES:

1. COUPLINGS SHALL BE TYPE 'D' JOINTS W/316 OR 304-STAINLESS STEEL BANDS.
2. RISER SHALL BE VERTICAL.
3. RISER SHALL BE CAST IRON WITHIN A DRIVEWAY.
4. FOR 6" LATERAL INSTALL 45° WYE (DOWNSTREAM DIRECTION).
5. INSTALL NEW TWO WAY CLEANOUT 6 FT MINIMUM FROM THE SEWER MAIN. ADJUST THE CLEANOUT LOCATIONS AS NEEDED TO FIT THE SITE CONDITION.

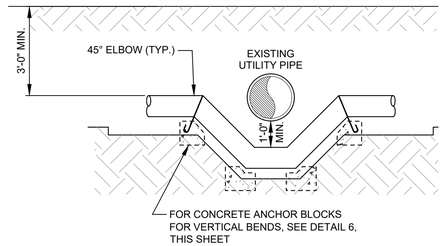
2 SANITARY SEWER LATERAL DETAIL

SCALE: N.T.S.



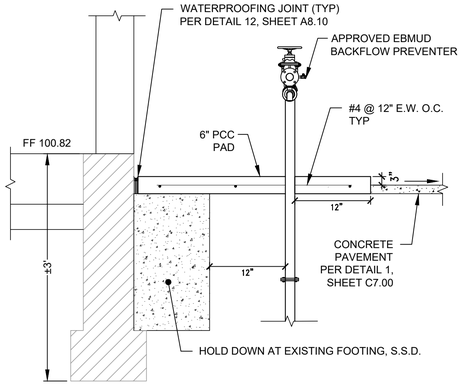
3 TYPICAL PIPE CONCRETE PLUG DETAIL

SCALE: 1" = 1'



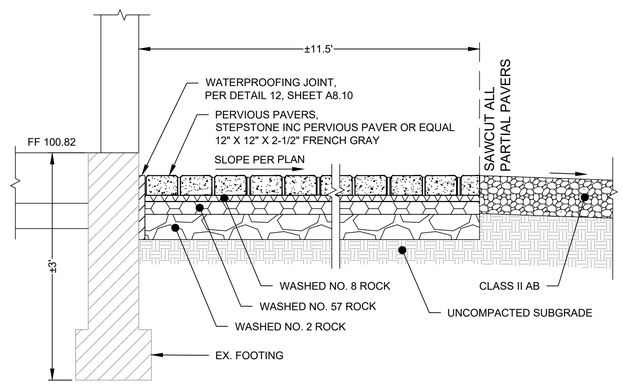
4 TYPICAL WATER UTILITY CROSSING

SCALE: NTS



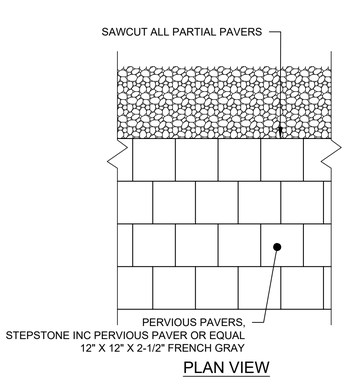
5 BACKFLOW PREVENTER DETAIL

SCALE: NTS

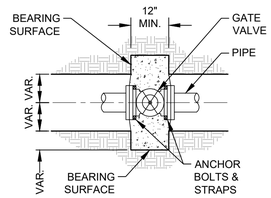


6 PERVIOUS PAVER SECTION

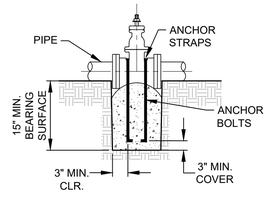
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PLAN VIEW

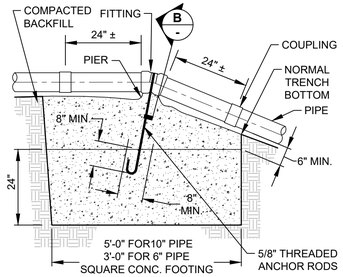


PLAN

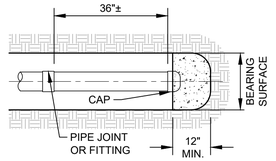


ELEVATION

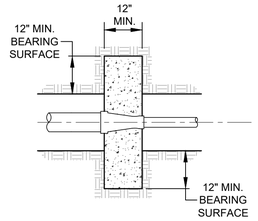
VALVE ANCHORS



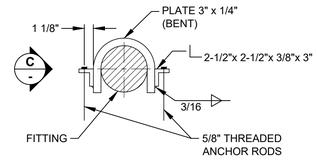
VERTICAL BEND



CAPPED END

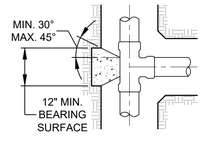


REDUCER

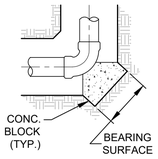


B SECTION

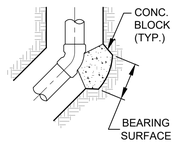
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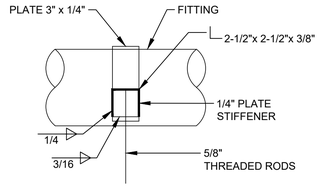
TEE



90° ELBOW

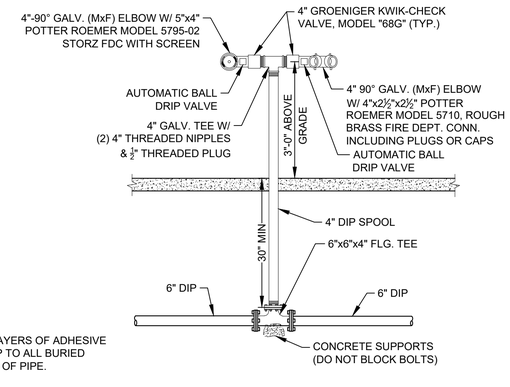


45° ELBOW



C SECTION

SCALE: NTS



NOTES:

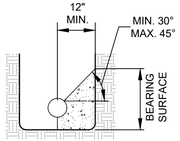
1. APPLY 2 LAYERS OF ADHESIVE PIPE WRAP TO ALL BURIED PORTIONS OF PIPE.

7 THRUST AND ANCHOR BLOCK DETAIL

SCALE: NTS

8 FIRE DEPARTMENT CONNECTION

SCALE: NTS



TYPICAL SECTION
OF THRUST BLOCK

THRUST BLOCK BEARING AREAS - S.F.

MAIN SIZE	TEE *	BEND			
		90°	45°	22.5°	11.25°
4"	3	4	2	2	2
6"	6	8	5	3	2
8"	10	14	8	4	2
10"	15	21	11	6	3
12"	21	29	16	8	4

* INCLUDES TEES, PLUGS, CAPS, HYDRANTS & VALVES

GENERAL NOTES:

1. THRUST BLOCKS TO BE CONSTRUCTED PER N.F.P.A. 24.
2. ALL THRUST/ANCHOR BLOCKS SHALL BEAR AGAINST UNDISTURBED SOIL.
3. CONCRETE SHALL ATTAIN A MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI.
4. ALL ANCHOR RODS AND ANCHOR BOLTS SHALL BE MINIMUM 5/8" DIA. & ANCHOR STRAPS SHALL BE 3" X 1/4".
5. THRUST BLOCK DESIGN IS BASED ON A WATER PRESSURE OF 200 P.S.I. AND A MINIMUM ALLOWABLE SOIL BEARING VALUE OF 2,000 P.S.F. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING SOIL BEARING VALUES AND THE POSITION AND SIZE OF BEARING AREAS BASED UPON N.F.P.A. 24.
6. THE HEIGHT OF THE BLOCK MUST BE LESS THAN HALF OF THE TOTAL DEPTH TO THE BOTTOM OF THE BLOCK.
7. THE RATIO OF WIDTH TO HEIGHT OF THRUST BLOCK SHALL NOT EXCEED 1.5 TO 1.

Project Title:

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SEISMIC RETROFIT AND RENOVATION
1730 Oregon Street, Berkeley, CA 94703
APN#: 053-1676-001-02

Design Firm:
SIEGEL & STRAIN Architects
6201 Doyle Street, Suite B
Emeryville, CA 94608
TEL 510 / 547-8092
info@siegelstrain.com

Consultant:
CSW ST2
2001 Addison Street
Berkeley, CA 94704
415.883.9850
CSWST2.com

Stamp:



No.	Description	Date
	PERMIT SET	12/04/24
1	PLAN CHECK #1	03/07/25

Issue Note: PERMIT RESUBMITTAL 03/07/25

City Plan No.:	8286
City File No.:	402-145
Specification No.:	#25-11695-C
Project ID:	YAP
Drawn by:	JD
Checked by:	RS
Plot Date:	
Scale:	As Shown

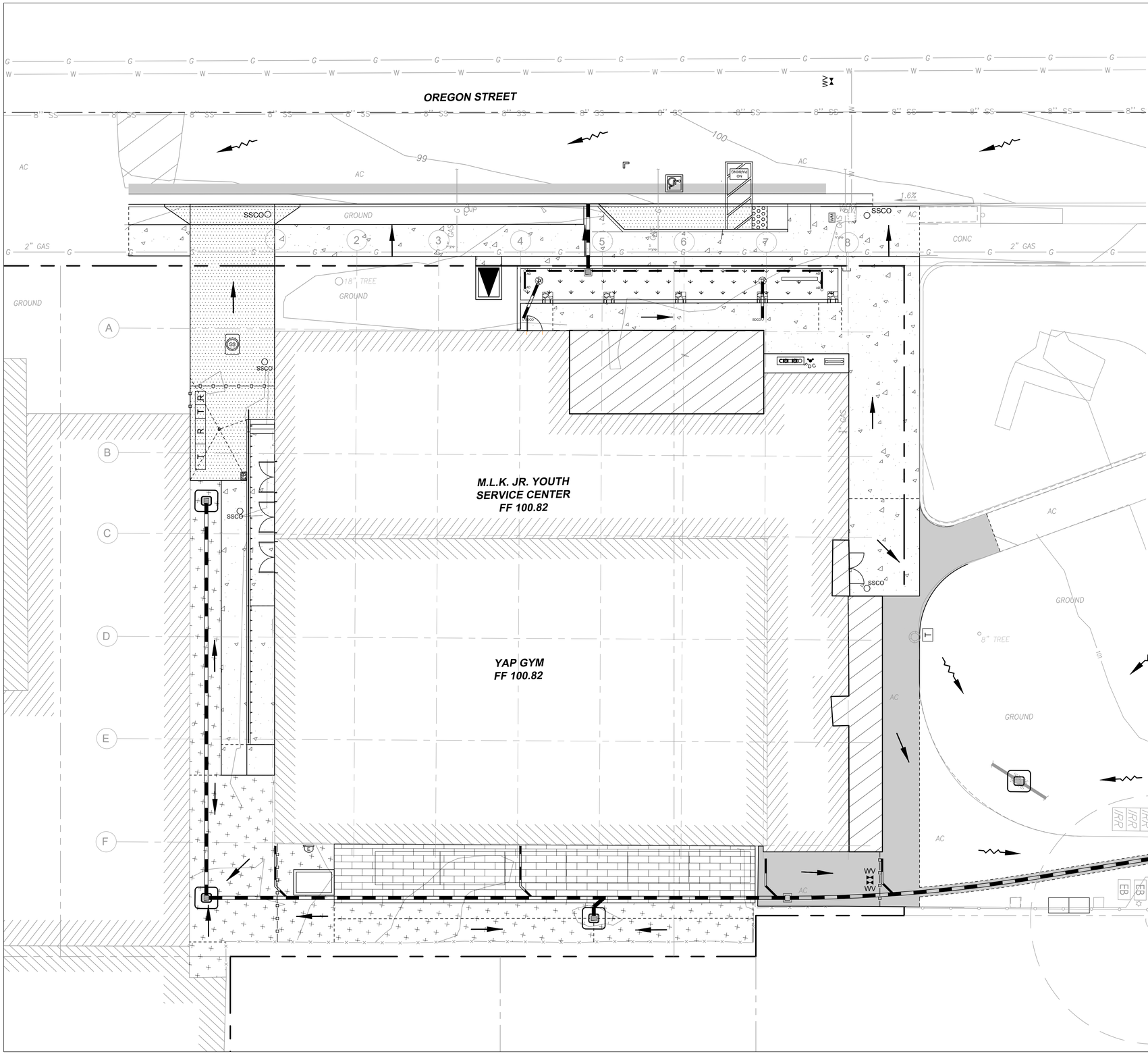
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CONSTRUCTION DETAILS

Sheet No.:

C7.01

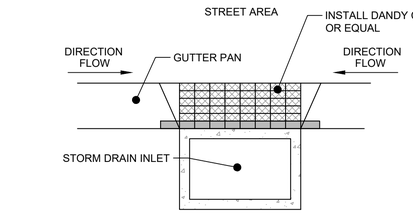
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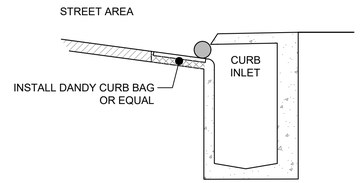


LEGEND

- DIRECTION OF FLOW OR SLOPE
- EXISTING DIRECTION OF FLOW OR SLOPE
- STORM INLET PROTECTION



PLAN



SECTION

1 INLET PROTECTION
SCALE: NTS

Project Title:

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Sheet Title:

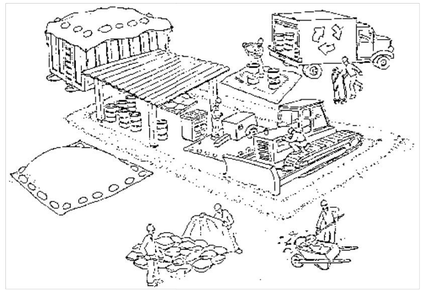
EROSION CONTROL PLAN

Sheet No.:

C8.00

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Pollution Prevention — It's Part of the Plan



Make sure your crews and subs do the job right!

Runoff from streets and other paved areas is a major source of pollution in San Francisco Bay. Construction activities can directly affect the health of the Bay unless contractors and crews plan ahead to keep dirt, debris, and other construction waste away from storm drains and local creeks. Following these guidelines will ensure your compliance with local ordinance requirements.

Materials storage & spill cleanup

Non-hazardous materials management

- ✓ Sand, dirt, and similar materials must be stored at least 10 feet from catch basins, and covered with a tarp during wet weather or when rain is forecast.
- ✓ Use (but don't overuse) reclaimed water for dust control as needed.
- ✓ Sweep streets and other paved areas daily. Do not wash down streets or work areas with water!
- ✓ Recycle all asphalt, concrete, and aggregate base material from demolition activities.
- ✓ Check dumpsters regularly for leaks and to make sure they don't overflow. Repair or replace leaking dumpsters promptly.

Hazardous materials management

- ✓ Label all hazardous materials and hazardous wastes (such as pesticides, paints, thinners, solvents, fuel, oil, and antifreeze) in accordance with city, state, and federal regulations.
- ✓ Store hazardous materials and wastes in secondary containment and cover them during wet weather.
- ✓ Follow manufacturer's application instructions for hazardous materials and be careful not to use more than necessary. Do not apply chemicals outdoors when rain is forecast within 24 hours.
- ✓ Be sure to arrange for appropriate disposal of all hazardous wastes.

Spill prevention and control

- ✓ Keep a stockpile of spill cleanup materials (rags, absorbents, etc.) available at the construction site at all times.
- ✓ When spills or leaks occur, contain them immediately and be particularly careful to prevent leaks and spills from reaching the gutter, street, or storm drain. Never wash spilled material into a gutter, street, storm drain, or creek!
- ✓ Report any hazardous materials spills immediately! Dial 911 or your local emergency response number.

Vehicle and equipment maintenance & cleaning



- ✓ Inspect vehicles and equipment for leaks frequently. Use drip pans to catch leaks until repairs are made; repair leaks promptly.
- ✓ Fuel and maintain vehicles on site only in a bermed area or over a drip pan that is big enough to prevent runoff.
- ✓ If you must clean vehicles or equipment on site, clean with water only in a bermed area that will not allow rinsewater to run into gutters, streets, storm drains, or creeks.
- ✓ Do not clean vehicles or equipment on-site using soaps, solvents, degreasers, steam cleaning equipment, etc.

Earthwork & contaminated soils

- ✓ Keep excavated soil on the site where it is least likely to collect in the street. Transfer to dump trucks should take place on the site, not in the street.
- ✓ Use fiber rolls, silt fences, or other control measures to minimize the flow of silt off the site.



- ✓ Avoid scheduling earth moving activities during the rainy season if possible. If grading activities during wet weather are allowed in your permit, be sure to implement all control measures necessary to prevent erosion.
- ✓ Mature vegetation is the best form of erosion control. Minimize disturbance to existing vegetation whenever possible.
- ✓ If you disturb a slope during construction, prevent erosion by securing the soil with erosion control fabric, or seed with fast-growing grasses as soon as possible. Place fiber rolls down-slope until soil is secure.
- ✓ If you suspect contamination (from site history, discoloration, odor, texture, abandoned underground tanks or pipes, or buried debris), call the Regional Water Quality Control Board or local hazardous waste management agency for help in determining what testing should be done, and manage disposal of contaminated soil according to their instructions.

Dewatering operations



- ✓ Reuse water for dust control, irrigation, or another on-site purpose to the greatest extent possible.
- ✓ Be sure to call your city's storm drain inspector before discharging water to a street, gutter, or storm drain. Filtration or diversion through a basin, tank, or sediment trap may be required.
- ✓ In areas of known contamination, testing is required prior to reuse or discharge of groundwater. Consult with the city inspector to determine what testing to do and to interpret results. Contaminated groundwater must be treated or hauled off-site for proper disposal.

Saw cutting

- ✓ Always completely cover or barricade storm drain inlets when saw cutting. Use filter fabric, catch basin inlet filters, or sand/gravel bags to keep slurry out of the storm drain system.
- ✓ Shovel, absorb, or vacuum saw-cut slurry and pick up all waste as soon as you are finished in one location or at the end of each work day (whichever is sooner!).
- ✓ If saw cut slurry enters a catch basin, clean it up immediately.

Paving/asphalt work



- ✓ Do not pave during wet weather or when rain is forecast.
- ✓ Always cover storm drain inlets and manholes when paving or applying seal coat, tack coat, slurry seal, or fog seal.
- ✓ Place drip pans or absorbent material under paving equipment when not in use.
- ✓ Protect gutters, ditches, and drainage courses with sand/gravel bags, or earthen berms.
- ✓ Do not sweep or wash down excess sand from sand sealing into gutters, storm drains, or creeks. Collect sand and return it to the stockpile, or dispose of it as trash.
- ✓ Do not use water to wash down fresh asphalt concrete pavement.

Concrete, grout, and mortar storage & waste disposal

- ✓ Be sure to store concrete, grout, and mortar under cover and away from drainage areas. These materials must never reach a storm drain.
- ✓ Wash out concrete equipment/trucks off-site or designate an on-site area for washing where water will flow onto dirt or into a temporary pit in a dirt area. Let the water seep into the soil and dispose of hardened concrete with trash.



- ✓ Divert water from washing exposed aggregate concrete to a dirt area where it will not run into a gutter, street, or storm drain.
- ✓ If a suitable dirt area is not available, collect the wash water and remove it for appropriate disposal off site.

Painting



- ✓ Never rinse paint brushes or materials in a gutter or street!
- ✓ Paint out excess water-based paint before rinsing brushes, rollers, or containers in a sink. If you can't use a sink, direct wash water to a dirt area and spade it in.
- ✓ Paint out excess oil-based paint before cleaning brushes in thinner.
- ✓ Filter paint thinners and solvents for reuse whenever possible. Dispose of oil-based paint sludge and unusable thinner as hazardous waste.

BASMAA Bay Area Stormwater Management Agencies Association (BASMAA)
1-888-BAYWISE

Storm drain polluters may be liable for fines of $10,000 or more per day!

For more detailed information:
Get a copy of the "Field Manual" — (510) 622-2465 or www.abag.ca.gov/bayarea/sfep/reports/construction.html

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Stamp:
REGISTERED PROFESSIONAL ENGINEER
JED B. DAZ
No. C90534
CIVIL
STATE OF CALIFORNIA

No.	Description	Date
1	PLAN CHECK #1	03/07/25

Issue Note: PERMIT RESUBMITTAL 03/07/25

City Plan No.:	8286
City File No.:	402-145
Specification No.:	#25-11695-C
Project ID:	YAP
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Plot Date:	
Scale:	1" = 10'

Sheet Title: POLLUTION PREVENTION PLAN

Sheet No.: C8.01

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ABBREVIATIONS

AB	ANCHOR BOLT; ABOVE
AC	ASPHALT CONCRETE
ACT	ACOUSTICAL CEILING TILE
ACOUS; ACST	ACOUSTIC
ADDL	ADDITIONAL
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AHD	AIR HAND DRYER
ALUM	ALUMINUM
APPROX	APPROXIMATE
ARCH	ARCHITECT
AV	AUDIO VISUAL
BB	BASEBOARD
BD	BOARD
BESS	BATTERY ENERGY STORAGE SYSTEM
BFP	BACK FLOW PREVENTER
BLDG	BUILDING
BO	BOTTOM OF
BOF	BOTTOM OF FIXTURE
B PL	BASE PLATE
BOT	BOTTOM
BTWN	BETWEEN
CAB	CABINET
CEM	CEMENTITIOUS
CER	CERAMIC
CJ	CONTROL JOINT
CL	CENTER LINE
CLG	CEILING
CLR	CLEAR
CMU	CONCRETE MASONRY UNIT
CNTR	COUNTER
COL	COLUMN
CONC	CONCRETE
CONT	CONTINUOUS
CONST	CONSTRUCTION
CPT	CARPET
CTR	CENTER
DC	DIAPER CHANGING STATION
DET	DETAIL
DEMO	DEMOLITION
DF	DRINKING FOUNTAIN
DIA	DIAMETER
DIM	DIMENSION
DOUG FIR	DOUGLAS FIR
DG	DECOMPOSED GRANITE
DN	DOWN
DWG	DRAWING
DS	DOWNSPOUT
E	EAST
(E);EXIST	EXISTING
EA	EACH
ECU	EVAPORATIVE COOLING UNIT
EJ	EXPANSION JOINT
EL	ELEVATION
ELEC	ELECTRICAL
EQ	EQUAL
EW	EACH WAY
EXP	EXPANSION
EXT	EXTERIOR
FE	FIRE EXTINGUISHER
FFE	FINISH FLOOR ELEVATION
FD	FLOOR DRAIN
FDC	FIRE DEPARTMENT CONNECTION
FHMS	FLAT HEAD METAL SCREW
FIN	FINISH
FIN FLR	FINISH FLOOR
FIXT	FIXTURE
FLASH	FLASHING
FLUOR	FLUORESCENT
FDTN	FOUNDATION
FO	FACE OF
FOC	FACE OF CONCRETE
FOF	FACE OF FINISH
FOS	FACE OF STUD
FLR	FLOOR
FPL	FIREPLACE
FRP	FIBERGLASS REINFORCED PLASTIC
FT	FOOT OR FEET
FTG	FOOTING
FURG	FURRING
GA	GAUGE
GALV	GALVANIZED
GB	GRAB BAR
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
GL	GLASS
GLU LAM	GLUE LAMINATED LUMBER
GSM	GALVANIZED SHEET METAL
GYP BD	GYPSUM BOARD
HB	HOSE BIBB
HCWD	HOLLOW CORE WOOD DOOR
HD	HAND DRYER
HDR	HEADER
HDW	HARDWARE
HDWD	HARDWOOD
HM	HOLLOW METAL
HORZ;HORIZ	HORIZONTAL
ID	INSIDE DIAMETER
INS; INSUL	INSULATION
INT	INTERIOR
ISO	ISOMETRIC
JAN CLO	JANITOR CLOSET
J-BOX	JUNCTION BOX
JT	JOINT
KIT	KITCHEN
KPL	KICK PLATE
LAM GL	LAMINATED GLASS
LAV	LAVATORY
LINO	LINOLEUM
LT	LIGHT
MAX	MAXIMUM
MC	MEDICINE CABINET
MECH	MECHANICAL
MEMB	MEMBRANE
MFR; MNFR	MANUFACTURER
MIN	MINIMUM
MISC	MISCELLANEOUS
MTD	MOUNTED
MTL	METAL
MW	MICROWAVE
N	NORTH
(N)	NEW
NIC	NOT IN CONTRACT
NOM	NOMINAL
NTS	NOT TO SCALE
O/	OVER
OC	ON CENTER
OD	OUTSIDE DIAMETER
OPNG	OPENING
OPP	OPPOSITE
PERF	PERFORATED
PL	PROPERTY LINE
PLAS	PLASTER
PLAM	PLASTIC LAMINATE
PLBG	PLUMBING
PLYWD	PLYWOOD
PN	PROJECT NORTH
PR	PAIR
PT	PRESSURE TREATED
PTD	PAPER TOWEL DISPENSER; PAINTED
PV	PHOTOVOLTAIC
R	RISER; RADIUS
RCP	REFLECTED CEILING PLAN
REC	RECOMMENDED
REQD	REQUIRED
REF	REFRIGERATOR
REV	REVERSE
RH	ROBE HOOK
RM	ROOM
RO	ROUGH OPENING
RWL	RAIN WATER LEADER
SAF	SELF-ADHERED FLASHING
S	SOUTH
SC	SOLID CORE; SHOWER CURTAIN
SCD	SEE CIVIL DRAWINGS
SCHED	SCHEDULE
SD	SMOKE DETECTOR; SOAP DISPENSER
SED	SEE ELECTRICAL DRAWINGS
SF	SQUARE FOOT (FEET)
SG	SAFETY GLAZING
SHT	SHEET
SIM	SIMILAR
SFSD	SEE FOOD SERVICE DRAWINGS
SLD	SEE LANDSCAPE DRAWINGS
SMD	SEE MECHANICAL DRAWINGS
SND	SANITARY NAPKIN DISPENSER
SPD	SEE PLUMBING DRAWINGS
SPVD	SEE PHOTOVOLTAIC DRAWINGS
SQ	SQUARE
SR	SHOWER ROD
SS	SHOWER SEAT
SSD	SEE STRUCTURAL DRAWINGS
SST; SSTL	STAINLESS STEEL
STD	STANDARD
STL	STEEL
STRUCT	STRUCTURAL
SYMM	SYMMETRICAL
T	TREAD
TB	TOWEL BAR
TEL	TELEPHONE
THRU	THROUGH
TO	TOP OF
TOS	TOP OF SLAB
TP; TPD	TOILET PAPER DISPENSER
TS	TUBE STEEL
TYP	TYPICAL
T&G	TONGUE & GROOVE
TV	TELEVISION
UBC	UNIFORM BUILDING CODE
UO	UNDERSIDE OF
UON	UNLESS OTHERWISE NOTED
UR	URINAL
UTIL	UTILITY
VAR	VARIES
VERT	VERTICAL
VG	VERTICAL GRAIN
VIF	VERIFY IN FIELD
WRB	WATER RESISTANT BARRIER
W	WEST
W/	WITH
WC	WATER CLOSET
WO	WHERE OCCURS
W/O	WITHOUT
WD	WOOD
WDW	WINDOW
WH	WATER HEATER
WP	WATER PROOF; WATERPROOFING
WR	WASTE RECEPTACLE
WWM	WELDED WIRE MESH

SYMBOLS

1 / A1.01 — **EXTERIOR ELEVATION**
DRAWING NUMBER
SHEET NUMBER

1 / A1.01 — **SECTION**
DRAWING NUMBER
SHEET NUMBER

1 / A1.01 — **INTERIOR ELEVATION**
DRAWING NUMBER
SHEET NUMBER

1 / A1.01 — **DETAIL**
DRAWING NUMBER
SHEET NUMBER

0 — **GRIDLINE**

NAME / ELEVATION — **ELEVATION MARKER**

1 / A3.03 View Name 1/8" = 1'-0" — **VIEW TITLE**
SCALE

A — **WINDOW TAG**

101A — **DOOR TAG**

XXXX — **WALL TAG**

1 — **REVISION CLOUD**

XX.XX — **KEYNOTE**

GENERAL NOTES

1. THESE NOTES APPLY TO ALL DRAWINGS AND GOVERN UNLESS NOTED OR SPECIFIED FOR MORE SPECIFIC REQUIREMENTS APPLICABLE TO PARTICULAR DIVISIONS OF THE WORK. SEE SPECIFICATIONS AND SHEET NOTES CONTAINED IN SUBSECTIONS OF THESE DRAWINGS.
2. THE GENERAL CONDITIONS OF THE CONTRACT FOR CONSTRUCTION AND THE SPECIFICATIONS SUPPLEMENT THESE DRAWINGS AND ARE A PART OF THE CONTRACT DOCUMENTS.
3. CONTRACTOR SHALL VISIT SITE AND BE FULLY COGNIZANT OF ALL FIELD CONDITIONS PRIOR TO SUBMITTING BID. ANY CONFLICTS OR DISCREPANCIES BETWEEN THE DRAWINGS AND SITE CONDITIONS SHALL BE IMMEDIATELY BROUGHT TO THE CONTRACTING OFFICER.
4. CONTRACTOR TO VERIFY ALL EXISTING DIMENSIONS IN FIELD. ON DRAWINGS, ONLY WRITTEN DIMENSIONS SHALL BE USED. DO NOT SCALE DRAWINGS. CONTRACTOR SHALL VERIFY AND BE MADE COMPLETELY RESPONSIBLE FOR ALL DIMENSIONS AND CONDITIONS ON THE JOB. ARCHITECT MUST BE NOTIFIED IN WRITING OF ANY PROPOSED OR REQUIRED VARIATIONS FROM THE DIMENSIONS AND CONDITIONS SHOWN, AND A WRITTEN CHANGE ORDER ISSUED BEFORE MAKING ANY CHANGES AT THE JOB SITE.
5. BY ACCEPTING AND USING THESE DRAWINGS, CONTRACTOR AGREES TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY. THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS.
6. CONTRACTOR ACKNOWLEDGES THOROUGH FAMILIARIZATION WITH THE BUILDING SITE CONDITIONS, WITH THE DRAWINGS AND SPECIFICATIONS, WITH THE DELIVERY FACILITIES, AND ALL OTHER MATTERS AND CONDITIONS WHICH MAY AFFECT THE OPERATIONS AND COMPLETION OF THE WORK, AND ASSUMES ALL RISK THEREFROM.
7. THE DRAWINGS SCHEMATICALLY INDICATE EXISTING AND NEW CONSTRUCTION. DUE TO THE NATURE OF THE WORK, ADJUSTMENTS WILL LIKELY BE REQUIRED IN THE FIELD TO MEET THE DESIGN OBJECTIVES.
8. WHEN SPECIFIC FEATURES OF CONSTRUCTION ARE NOT FULLY SHOWN ON THE DRAWINGS, OR CALLED FOR IN THE GENERAL NOTES, THEIR CONSTRUCTION SHALL BE OF THE SAME CHARACTER AS SIMILAR CONDITIONS.
9. DETAILS SHOWN SHALL BE INCORPORATED INTO THE PROJECT AT ALL APPROPRIATE LOCATIONS WHETHER SPECIFICALLY CALLED OUT OR NOT.
10. ALL WORK SHALL BE IN COMPLIANCE WITH ALL APPLICABLE LOCAL BUILDING CODES AND REGULATIONS. CONTRACTOR SHALL BE RESPONSIBLE FOR PERMITS APPLICABLE TO SPECIFIC TRADES OR SUBCONTRACTORS' WORK.
11. CONTRACTOR SHALL DESIGN AND INSTALL SHORING AS REQUIRED TO PERFORM THE WORK. RESPONSIBILITY FOR ENGINEERING, CONSTRUCTION, AND SAFETY OF THE SHORING SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
12. SIEGEL & STRAIN ASSUMES NO RESPONSIBILITY FOR THE MANAGEMENT OF HAZARDOUS MATERIALS THAT MAY BE ON THE SITE. AN INVESTIGATION FOR HAZARDOUS MATERIALS HAS BEEN PERFORMED BY ACUMEN INDUSTRIAL HYGIENE INC. THE RESULTING REPORT DATED FEBRUARY 2023 IS AVAILABLE UPON REQUEST.
13. CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THAT PERSONNEL WITHIN THE WORK AREA ARE PROTECTED FROM EXPOSURE TO ANY HAZARDOUS MATERIALS ENCOUNTERED. IF MATERIALS ARE DISCOVERED THAT MAY BE HAZARDOUS, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE OWNER AND CEASE WORK UNTIL CONDITIONS CAN BE MAINTAINED IN COMPLIANCE WITH ALL APPLICABLE REGULATIONS.
14. DRAWINGS INDICATE NEW CONSTRUCTION UNLESS NOTED AS (E) FOR “EXISTING”.
15. DEMOLITION AND WASTE REMOVAL TO COMPLY WITH CALGREEN CONSTRUCTION WASTE MANAGEMENT REQUIREMENTS.
16. CONTRACTOR RESPONSIBLE FOR COMPLIANCE WITH CFC CHAPTER 33 FOR FIRE SAFETY DURING CONSTRUCTION. INCLUDING BUT NOT LIMITED TO:
    A. SMOKING SHALL BE PROHIBITED EXCEPT IN DESIGNATED AREAS WITH APPROVED ASHTRAYS. ALL OTHER AREAS MUST HAVE “NO SMOKING” SIGNAGE POSTED AROUND CONSTRUCTION AREAS IN ACCORDANCE WITH CFC §310. [CFC §3305.1]
    B. COMBUSTIBLE DEBRIS SHALL NOT BE ACCUMULATED WITHIN BUILDING. COMBUSTIBLE DEBRIS, RUBBISH AND WASTE MATERIAL SHALL BE REMOVED FROM BUILDING AT THE END OF EACH SHIFT OF WORK. [CFC §3305.2]
    C. MATERIALS SUSCEPTIBLE TO SPONTANEOUS IGNITION, SUCH AS OILY RAGS, SHALL BE STORED IN A LISTED DISPOSAL CONTAINER. [CFC § 3305.2.4]
    D. OPERATIONS INVOLVING THE USE OF CUTTING AND WELDING SHALL BE DONE IN ACCORDANCE WITH CFC CHAPTER 35. [CFC §3305.6]
    E. THE CONSTRUCTION AREA MUST TO BE CLEANED AT THE END OF THE DAY IN ORDER TO PROVIDE FIREFIGHTER ACCESS IN THE BUILDING IN AN EVENT OF A FIRE.

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PARKS, RECREATION & WATERFRONT DEPARTMENT
MLK JR. YOUTH SERVICES CENTER / YAP
SEISMIC RETROFIT AND RENOVATION
1730 Oregon Street, Berkeley, CA 94703
APN#: 053-1676-001-02

Design Firm:

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info@siegelstrain.com

Consultant:

Stamp:

LICENSED ARCHITECT
KAREN RICHARDS
No. C-32146
Exp: 08-31-25
STATE OF CALIFORNIA

No.	Description	Date
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Issue Note: PERMIT RESUBMITTAL 03/07/25

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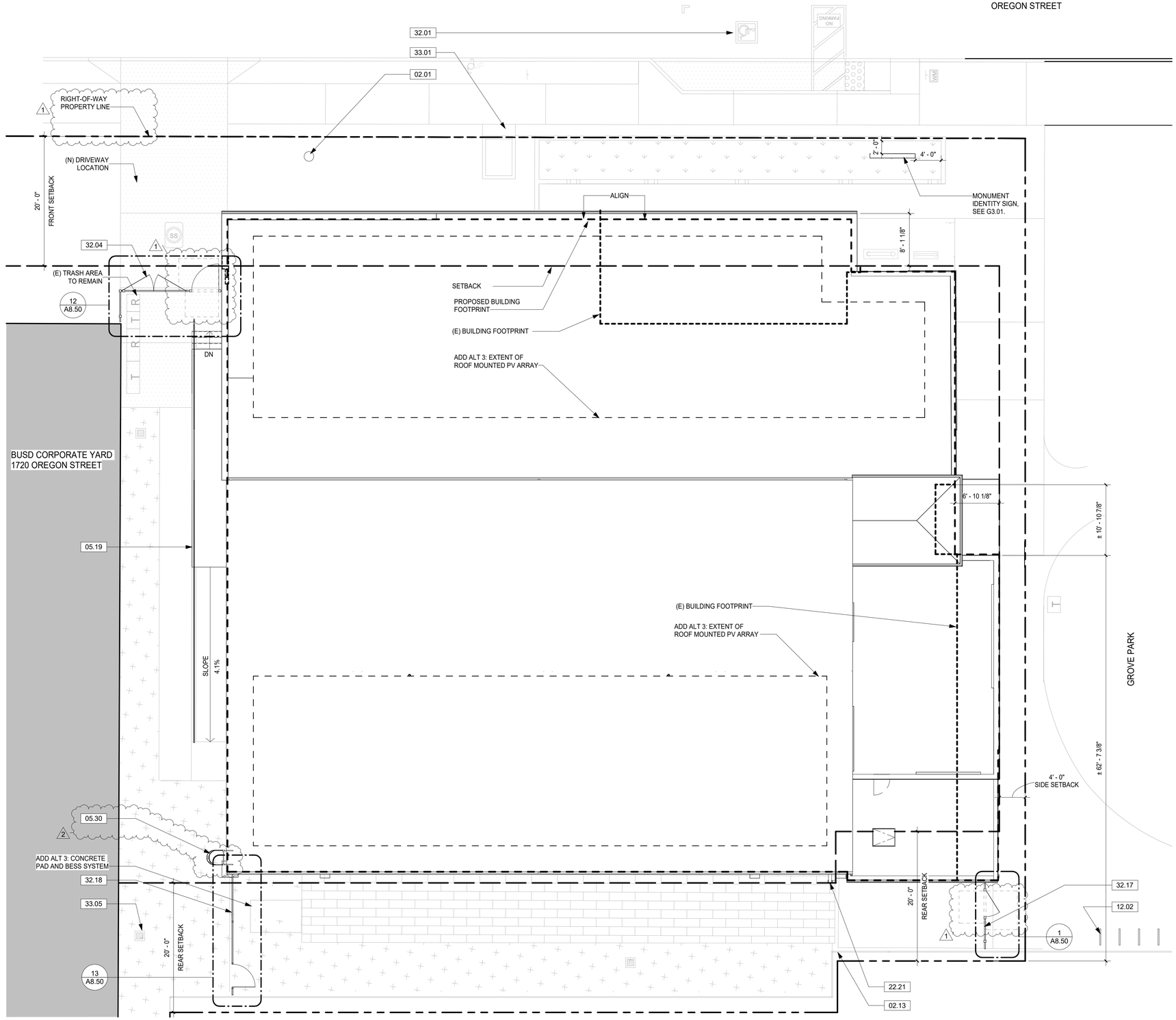
Sheet Title:

SYMBOLS & ABBREVIATIONS

Sheet No.:

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1 A1.00 SITE PLAN

1/8" = 1'-0" @ 22" x 34" 1/16" = 1'-0" @ 11" x 17"

LEGEND

PROPERTY LINE

ZONING SETBACK

KEYNOTE LEGEND

Key Value	Keynote Text
02.01	(E) TREE TO REMAIN, PROVIDE TREE PROTECTION AS REQUIRED
02.13	(E) FENCE TO REMAIN
05.19	STEEL HANDRAIL W/ KICKRAIL
05.30	FIXED LADDER WITH LADDER SAFETY SYSTEM, SAFETY CAGE AND SECURITY PANEL
12.02	BICYCLE RACKS
22.21	FIRE RISER, SPD
32.01	ACCESSIBLE PARKING STALL PER CALTRANS STANDARDS, SEE 7/G1.02 (1)
32.04	STEEL PICKET FENCE W/ VEHICULAR AND PEDESTRIAN EGRESS GATE
32.17	STEEL PICKET FENCE W/ PEDESTRIAN GATE
32.18	CHAIN LINK FENCING
33.01	TRANSFORMER, SED
33.05	STORM DRAIN, SCD

TREE PROTECTION NOTES

1. PROVIDE TREE AND ROOT PROTECTION MEETING CITY OF BERKELEY GUIDELINES
2. INSTALL 6 FOOT CHAIN-LINK FENCING TO PROTECT THE AREA WITHIN THE DRIP-LINE OF ANY PROTECTED TREE IN THE DEVELOPMENT AREA.
3. WHEN ANY APPROVED CONSTRUCTION ACTIVITY WILL OCCUR WITHIN THE DRIP LINE OF A PROTECTED TREE THAT IS NOT SURROUNDED BY PROTECTIVE FENCING, THE TRUNK SHALL BE PROTECTED BY WRAPPING IT WITH STRAW TUBES (WATTLE) OR VERTICAL WOOD SLATS (EX. 2X4), UP TO A MINIMUM OF 8 FEET FROM GRADE. LATERAL BRANCHES BELOW 8 FEET SHALL ALSO BE PROTECTED. IN ADDITION, THE AREA SHALL BE COVERED WITH A 6 INCH LAYER OF MULCH TOPPED WITH 3/4 INCH PLYWOOD THAT IS FASTENED TOGETHER.
4. NO STORAGE OF BUILDING MATERIALS, REFUSE, EXCAVATED SPOILS, OR DUMPING OF POISONOUS MATERIALS, IS PERMITTED WITHIN THE DRIP LINE OF ANY PROTECTED TREE.

SHEET NOTES

1. AN ENGINEERING PERMIT WILL BE REQUIRED FOR ANY WORK IN THE PUBLIC RIGHT-OF-WAY, INCLUDING BUT NOT LIMITED TO CONSTRUCTION STAGING, RESERVED CONSTRUCTION PARKING, SIDEWALK, DRAINAGE, OR SEWER WORK. APPROVAL OF THIS BUILDING PERMIT DOES NOT AUTHORIZE WORK IN THE PUBLIC RIGHT-OF-WAY.
2. SEE CIVIL DRAWINGS FOR UNDERGROUND UTILITIES, GRADING, ACCESSIBLE PARKING AND STRIPING DETAILS.
3. SEE CIVIL DRAWINGS FOR PLANTING, PAVING, NEW TREES AND EXISTING TREES TO BE REMOVED, SITE WALLS, EXTERIOR SITE LIGHTING, AND OTHER SITE AMENITIES.
4. SEE ELECTRICAL DRAWINGS FOR DRY UTILITIES, POWER DISTRIBUTION, SITE LIGHTING, AND EXTERIOR BUILDING LIGHTING.
5. SEE ACCESSIBILITY DETAILS, G2 SERIES SHEETS FOR TYPICAL SIGNAGE AND STRIPING DETAILS.
6. WALKWAYS AND SIDEWALKS ON ACCESSIBLE ROUTES OF TRAVEL ARE CONTINUOUSLY ACCESSIBLE, HAVE MAX 1/2" CHANGES IN ELEVATION OR PROVIDE CURB RAMPS COMPLYING WITH CBC 11B-406, ARE MINIMUM 48" WIDE, WHERE NECESSARY TO CHANGE ELEVATION AT A SLOPE EXCEEDING 5% SHALL HAVE PEDESTRIAN RAMPS COMPLYING WITH CBC 11B-405.

N

0 4 8 16 ft.

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PARKS, RECREATION & WATERFRONT DEPARTMENT

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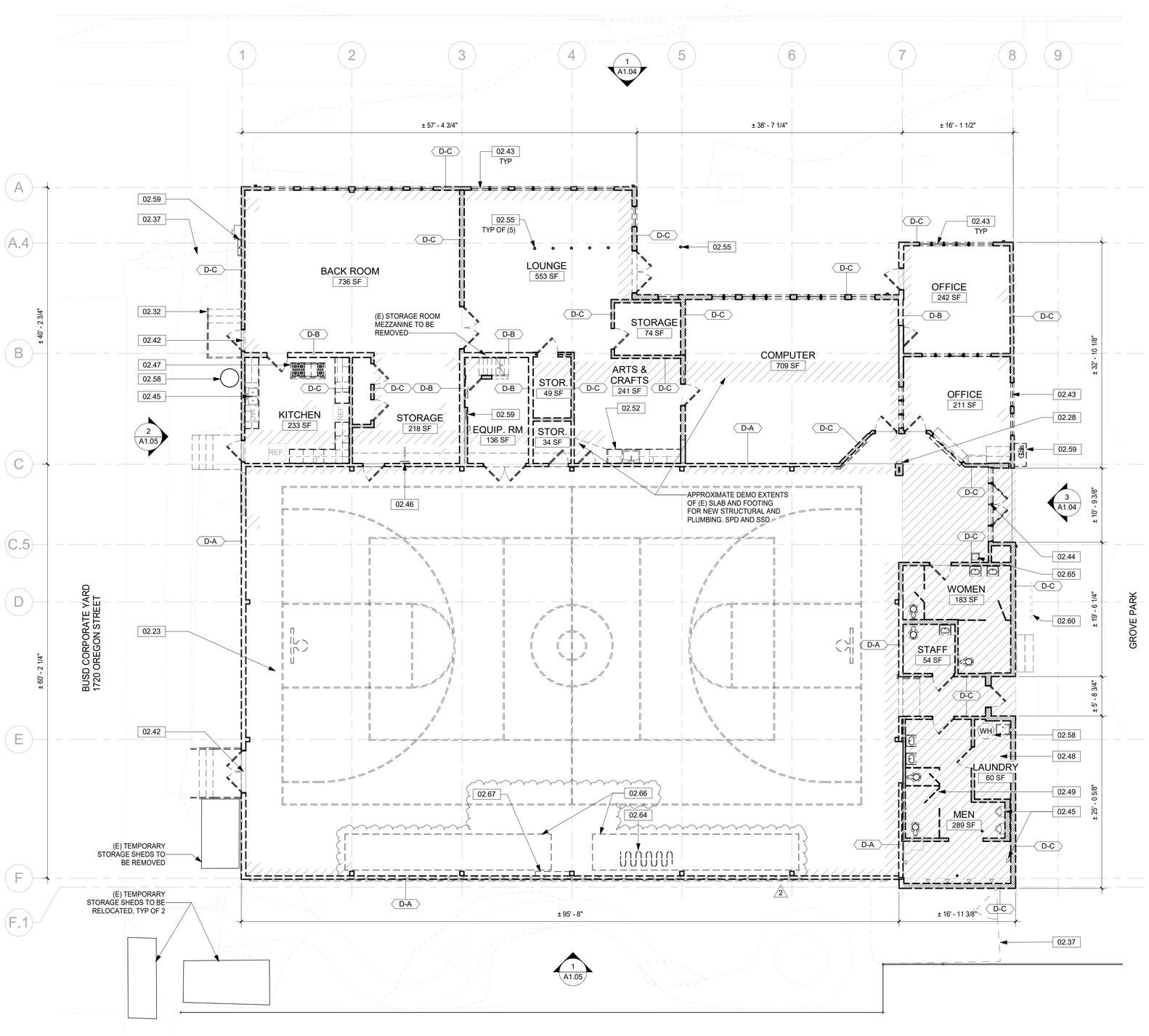
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SITE PLAN

Sheet No.:

A1.00

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1 FIRST FLOOR DEMOLITION PLAN
A1.01 1/8" = 1'-0" @ 22" x 34" 1/16" = 1'-0" @ 11" x 17"

LEGEND

- (E) WALL STUDS TO REMAIN ALL FINISH TO BE REMOVED
- (E) WALL TO BE REMOVED COMPLETELY
- (E) BUILDING ELEMENT TO BE REMOVED
- (E) FLOOR TO BE REMOVED

KEYNOTE LEGEND

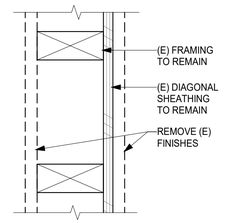
Key Value	Keynote Text
02.23	(E) GYM FLOOR TO REMAIN, REFINISH AND RESTRIPE
02.28	(E) AUTOMATED EXTERNAL DEFIBRILLATOR TO BE RELOCATED
02.32	REMOVE (E) SITE STAIR, SCD
02.37	REMOVE (E) FENCE AND GATE
02.42	REMOVE (E) DOOR, FRAME, AND THRESHOLD W.O.
02.43	REMOVE (E) WINDOW
02.44	REMOVE (E) STOREFRONT
02.45	REMOVE (E) PLUMBING FIXTURE, REMOVE AND/OR CAP LINES AS REQ'D, SPD
02.46	REMOVE (E) MECHANICAL DUCTING/ EQUIPMENT, SMD
02.47	REMOVE AND SALVAGE (E) KITCHEN EQUIPMENT TO OWNER
02.48	REMOVE AND SALVAGE (E) WASHER/ DRYER EQUIPMENT TO OWNER
02.49	REMOVE (E) TOILET PARTITION
02.52	REMOVE (E) CASEWORK
02.55	REMOVE (E) COLUMN
02.58	REMOVE AND SALVAGE (E) WATER HEATER TO OWNER
02.59	REMOVE (E) UTILITIES
02.60	REMOVE (E) BIKE RACK
02.64	REMOVE (E) GYM DIVIDER CURTAIN AND TRACK
02.65	REMOVE (E) WATER FILTER DEVICE
02.66	REMOVE AND SALVAGE (E) PORTABLE BLEACHERS TO OWNER
02.67	REMOVE AND SALVAGE (E) ELECTRONIC SCOREBOARD TO OWNER

2

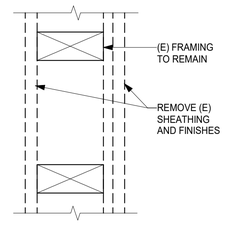
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WALL DEMO SCHEDULE	
	WALL AREA
DEMOLISHED	2,944 SF
	2,944 SF
RETAINED	5,378 SF
	5,378 SF
	8,322 SF

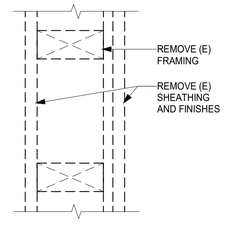
DEMO WALL TYPES



D-A



D-B



D-C

SHEET NOTES

1. GRID LINES LOCATED AT FACE OF FINISH, TYP UON. DIMENSIONS ARE TAKEN FROM FACE OF FINISH OR FROM GRIDLINE UON.
2. REFER TO CIVIL, STRUCTURAL, ELECTRICAL, AND MECHANICAL DRAWINGS FOR ADDITIONAL DEMOLITION REQUIREMENTS.
3. PRIOR TO PROCEEDING WITH THE DEMOLITION WORK, COORDINATE WITH THE OWNER ITEMS TO BE SALVAGED. SUCH ITEMS SHALL BE CAREFULLY REMOVED, CLEANED AND RETURNED TO THE OWNER.
4. ALL FINISHES AND EQUIPMENT TO REMAIN SHALL BE PROTECTED IN PLACE OR REMOVED AND RE-INSTALLED.
5. NEATLY CUT OPENINGS AND HOLES PLUMB, SQUARE, AND TRUE TO DIMENSIONS REQUIRED. USE CUTTING METHODS LEAST LIKELY TO DAMAGE CONSTRUCTION TO REMAIN OR ADJOINING AREAS.
6. NOTIFY OWNER AND ARCHITECT OF ANY STEPS, SLOPES, AND DAMAGE IN SLABS AND FLOORS DISCOVERED DURING THE COURSE OF DEMOLITION.
7. LEAVE AREAS CLEAN AND ORDERLY AFTER COMPLETION OF DEMOLITION WORK.
8. DEMOLISH ALL (E) FLOORING, WALL BASE/ TRIM, INTERIOR DOORS, CASEWORK, DEVICES, ELECTRICAL, IT DEVICES & EQUIPMENT, WALL FINISHES IN AREAS OF WORK, EXCEPT AS NOTED.
9. DEMOLISH ALL (E) WALL TILE, TYPICAL
10. (E) INTERIOR DOORS TO BE REMOVED, TYP UON.
11. (E) PLUMBING FIXTURES TO BE REMOVED, UON.

N

0 4 8 16 ft.

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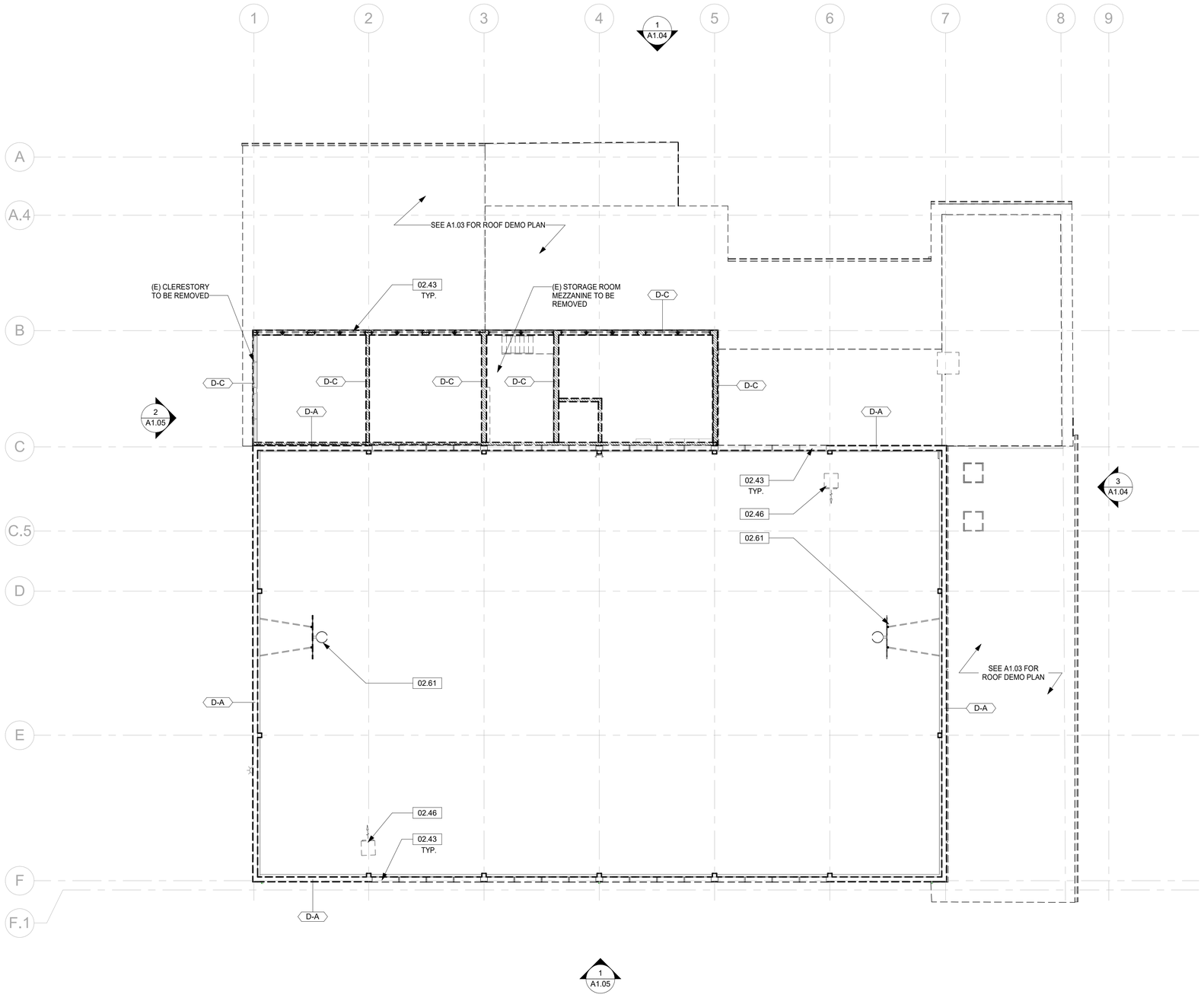
Sheet Title:

DEMO FLOOR PLAN

Sheet No.:

A1.01

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1 GYM CLERESTORY DEMOLITION PLAN
A1.02 1/8" = 1'-0" @ 22" x 34" 1/16" = 1'-0" @ 11" x 17"

LEGEND

- (E) WALL STUDS TO REMAIN ALL FINISH TO BE REMOVED
- (E) WALL TO BE REMOVED COMPLETELY
- (E) BUILDING ELEMENT TO BE REMOVED
- (E) FLOOR TO BE REMOVED

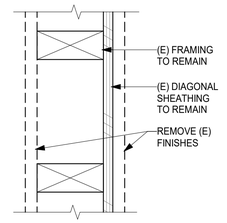
KEYNOTE LEGEND

Key Value	Keynote Text
02.43	REMOVE (E) WINDOW
02.46	REMOVE (E) MECHANICAL DUCTING/ EQUIPMENT, SMD
02.61	REMOVE (E) BASKETBALL HOOPS

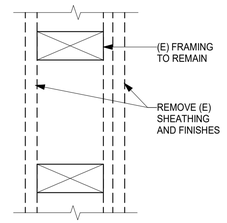
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WALL DEMO SCHEDULE	
	WALL AREA
DEMOLISHED	2,944 SF
	2,944 SF
RETAINED	5,378 SF
	5,378 SF
	8,322 SF

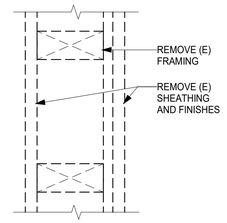
DEMO WALL TYPES



D-A



D-B



D-C

SHEET NOTES

1. GRID LINES LOCATED AT FACE OF FINISH, TYP UON. DIMENSIONS ARE TAKEN FROM FACE OF FINISH OR FROM GRIDLINE UON.
2. REFER TO CIVIL, STRUCTURAL, ELECTRICAL, AND MECHANICAL DRAWINGS FOR ADDITIONAL DEMOLITION REQUIREMENTS.
3. PRIOR TO PROCEEDING WITH THE DEMOLITION WORK, COORDINATE WITH THE OWNER ITEMS TO BE SALVAGED. SUCH ITEMS SHALL BE CAREFULLY REMOVED, CLEANED AND RETURNED TO THE OWNER.
4. ALL FINISHES AND EQUIPMENT TO REMAIN SHALL BE PROTECTED IN PLACE OR REMOVED AND RE-INSTALLED.
5. NEATLY CUT OPENINGS AND HOLES PLUMB, SQUARE, AND TRUE TO DIMENSIONS REQUIRED. USE CUTTING METHODS LEAST LIKELY TO DAMAGE CONSTRUCTION TO REMAIN OR ADJOINING AREAS.
6. NOTIFY OWNER AND ARCHITECT OF ANY STEPS, SLOPES, AND DAMAGE IN SLABS AND FLOORS DISCOVERED DURING THE COURSE OF DEMOLITION.
7. LEAVE AREAS CLEAN AND ORDERLY AFTER COMPLETION OF DEMOLITION WORK.
8. DEMOLISH ALL (E) FLOORING, WALL BASE/ TRIM, INTERIOR DOORS, CASEWORK, DEVICES, ELECTRICAL, IT DEVICES & EQUIPMENT, WALL FINISHES IN AREAS OF WORK, EXCEPT AS NOTED.
9. DEMOLISH ALL (E) WALL TILE, TYPICAL
10. (E) INTERIOR DOORS TO BE REMOVED, TYP UON.
11. (E) PLUMBING FIXTURES TO BE REMOVED, UON.

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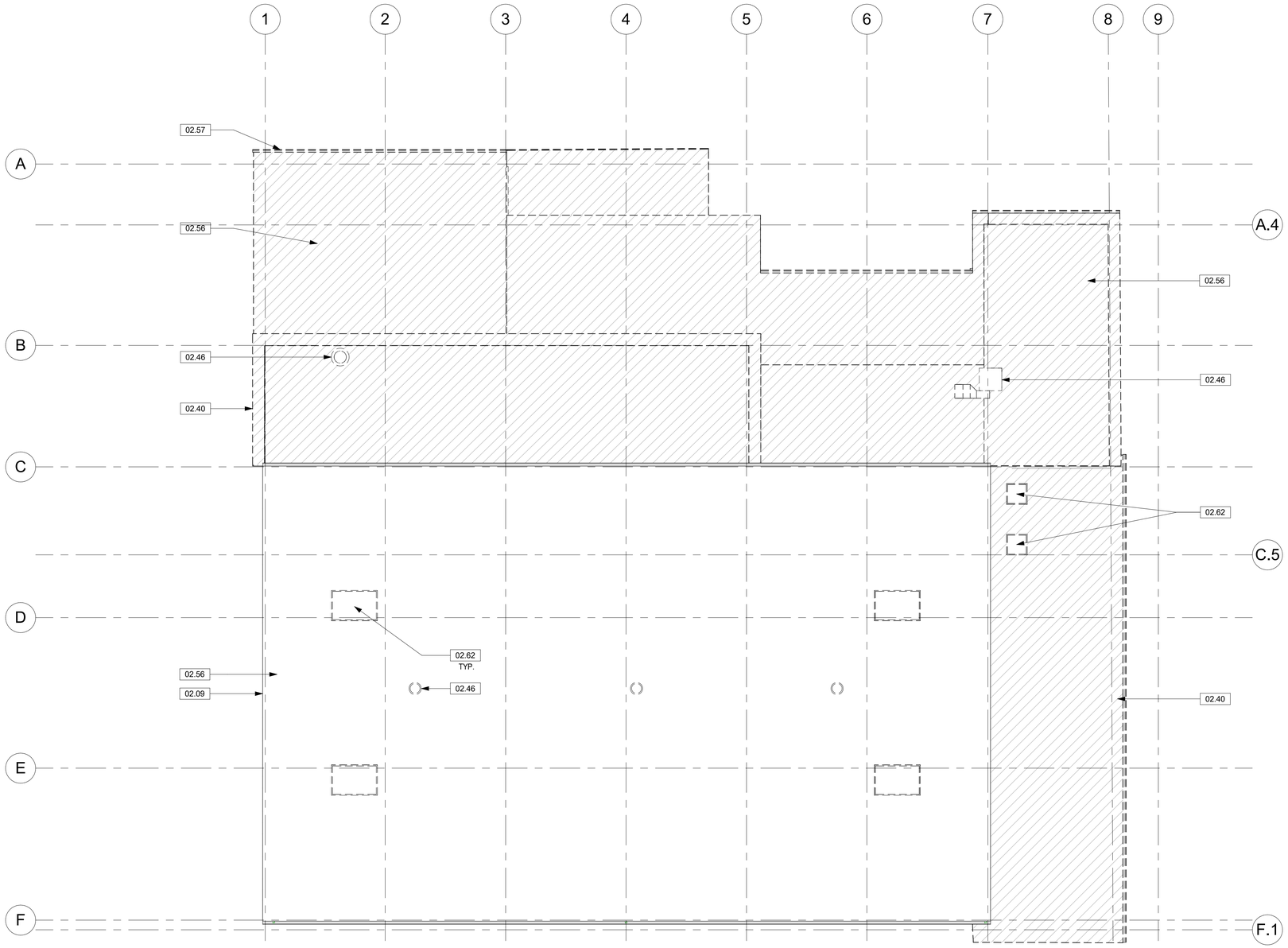
Sheet Title:

DEMO GYM CLERESTORY PLAN

Sheet No.:

A1.02

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1

ROOF DEMO SCHEDULE	
	AREA
DEMOLISHED	5,905 SF
RETAINED	6,025 SF
	11,931 SF

LEGEND

(E) BUILDING ELEMENT TO BE REMOVED

AREA OF DEMO FOR STRUCTURAL WORK, SSD

KEYNOTE LEGEND

Key Value	Keynote Text
02.09	(E) ROOF STRUCTURE TO REMAIN
02.40	REMOVE (E) ROOF
02.46	REMOVE (E) MECHANICAL DUCTING/ EQUIPMENT, SMD
02.56	REMOVE (E) MEMBRANE ROOFING
02.57	REMOVE (E) GUTTER & DOWNSPOUT
02.62	REMOVE (E) SKYLIGHT

SHEET NOTES

1. REMOVE ALL MEMBRANE ROOFING AND INSULATION ON EXISTING ROOF. STRUCTURES TO REMAIN.
2. GRID LINES LOCATED AT FACE OF FINISH, TYP UON. DIMENSIONS ARE TAKEN FROM FACE OF FINISH OR FROM GRIDLINE UON.
3. REFER TO CIVIL, STRUCTURAL, ELECTRICAL, AND MECHANICAL DRAWINGS FOR ADDITIONAL DEMOLITION REQUIREMENTS.
4. PRIOR TO PROCEEDING WITH THE DEMOLITION WORK, COORDINATE WITH THE OWNER ITEMS TO BE SALVAGED. SUCH ITEMS SHALL BE CAREFULLY REMOVED, CLEANED AND RETURNED TO THE OWNER.
5. ALL FINISHES AND EQUIPMENT TO REMAIN SHALL BE PROTECTED IN PLACE OR REMOVED AND RE-INSTALLED.
6. NEATLY CUT OPENINGS AND HOLES PLUMB, SQUARE, AND TRUE TO DIMENSIONS REQUIRED. USE CUTTING METHODS LEAST LIKELY TO DAMAGE CONSTRUCTION TO REMAIN OR ADJOINING AREAS.
7. LEAVE AREAS CLEAN AND ORDERLY AFTER COMPLETION OF DEMOLITION WORK.

N

0 4 8 16 ft.

1 A1.03 ROOF DEMOLITION PLAN

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MLK JR. YOUTH SERVICES CENTER / YAP SEISMIC RETROFIT AND RENOVATION

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APN#: 053-1676-001-02

Design Firm:

SIEGEL & STRAIN Architects
6201 Doyle Street, Suite B
Emeryville, CA 94608
TEL 510 / 547-8092
info@siegelstrain.com

Consultant:

Stamp:

LICENSED ARCHITECT
KAREN RICHARDS
No. C-32146
Exp: 08-31-25
STATE OF CALIFORNIA

No.	Description	Date
	PLANNING SET	01/09/23
	PLANNING RESUBMITTAL	4/28/23
	PERMIT SET	12/04/24
1	PLAN CHECK #1	03/07/25

Issue Note: PERMIT RESUBMITTAL 03/07/25

City Plan No.:	8286
City File No.:	402-145
Specification No.:	#25-11695-C
Project ID:	YAP
Drawn by:	MJ
Checked by:	KR
Plot Date:	
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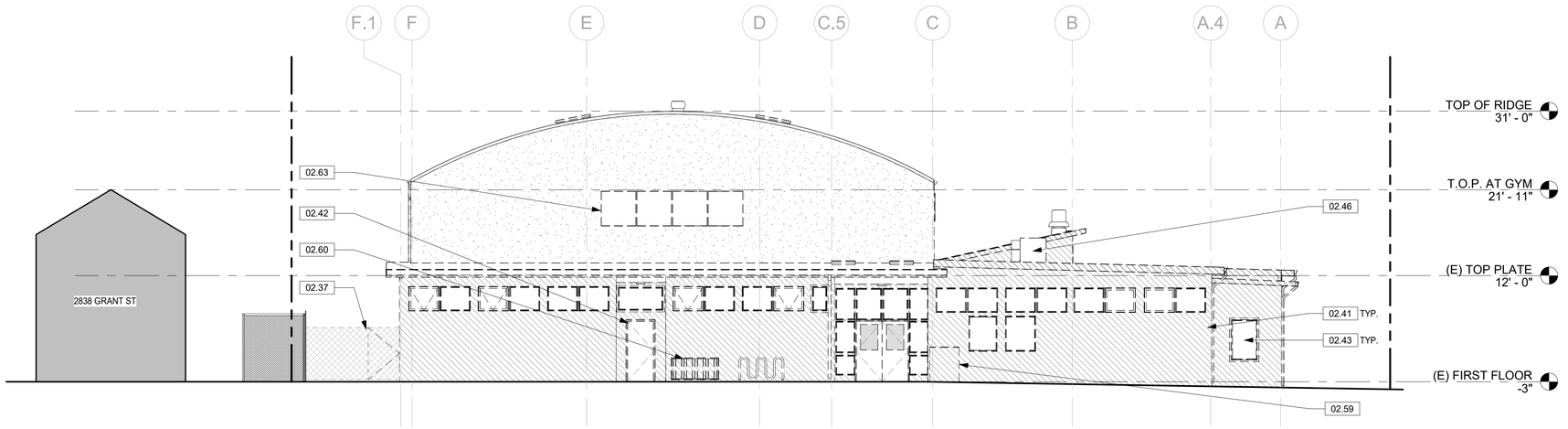
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DEMO ROOF PLAN

Sheet No.:

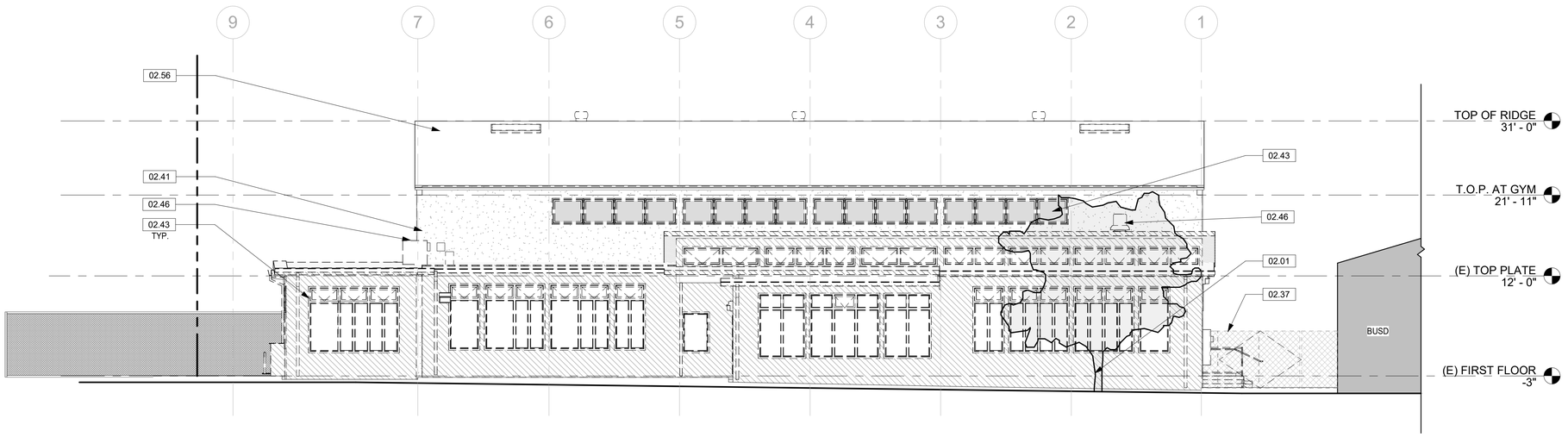
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3 A1.04 EAST DEMOLITION ELEVATION

1/8" = 1'-0" @ 22" x 34" 1/16" = 1'-0" @ 11" x 17"



1 A1.04 NORTH DEMOLITION ELEVATION

1/8" = 1'-0" @ 22" x 34" 1/16" = 1'-0" @ 11" x 17"

0 4 8 16 ft.

LEGEND

(E) WALL STUDS TO REMAIN ALL FINISH TO BE REMOVED

(E) WALL TO BE REMOVED COMPLETELY

(E) BUILDING ELEMENT TO BE REMOVED

KEYNOTE LEGEND

Key Value	Keynote Text
02.01	(E) TREE TO REMAIN, PROVIDE TREE PROTECTION AS REQUIRED
02.37	REMOVE (E) FENCE AND GATE
02.41	REMOVE (E) EXTERIOR PTD CEMENT PLASTER FINISH
02.42	REMOVE (E) DOOR, FRAME, AND THRESHOLD W.O.
02.43	REMOVE (E) WINDOW
02.46	REMOVE (E) MECHANICAL DUCTING/ EQUIPMENT, SMD
02.56	REMOVE (E) MEMBRANE ROOFING
02.59	REMOVE (E) UTILITIES
02.60	REMOVE (E) BIKE RACK
02.63	REMOVE (E) LOUVERS

Project Title:

CITY OF BERKELEY
PARKS, RECREATION & WATERFRONT DEPARTMENT

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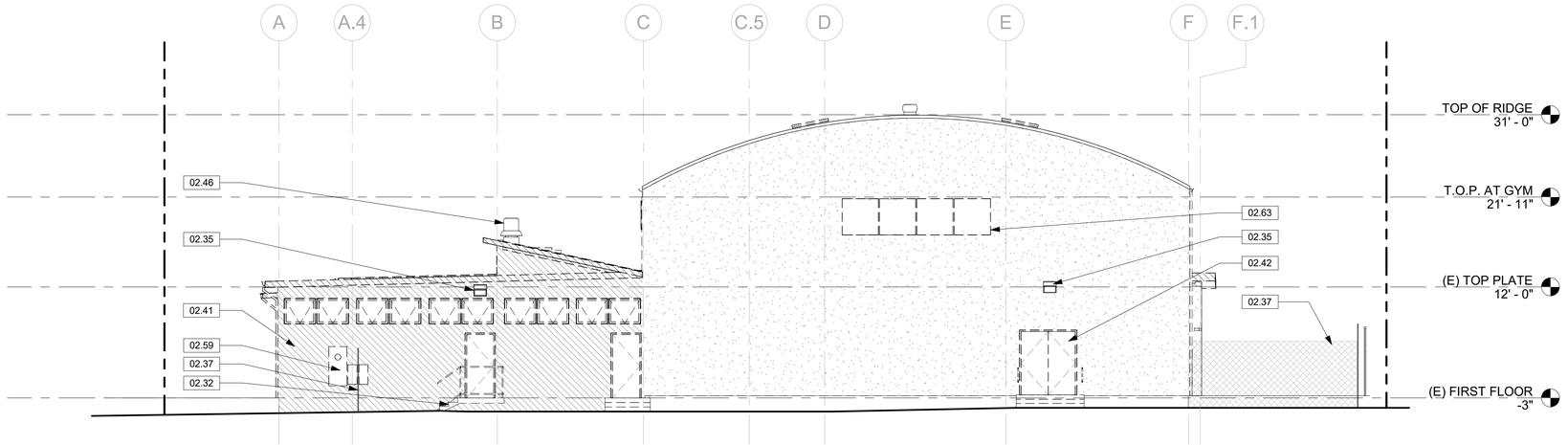
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DEMO ELEVATIONS

Sheet No.:

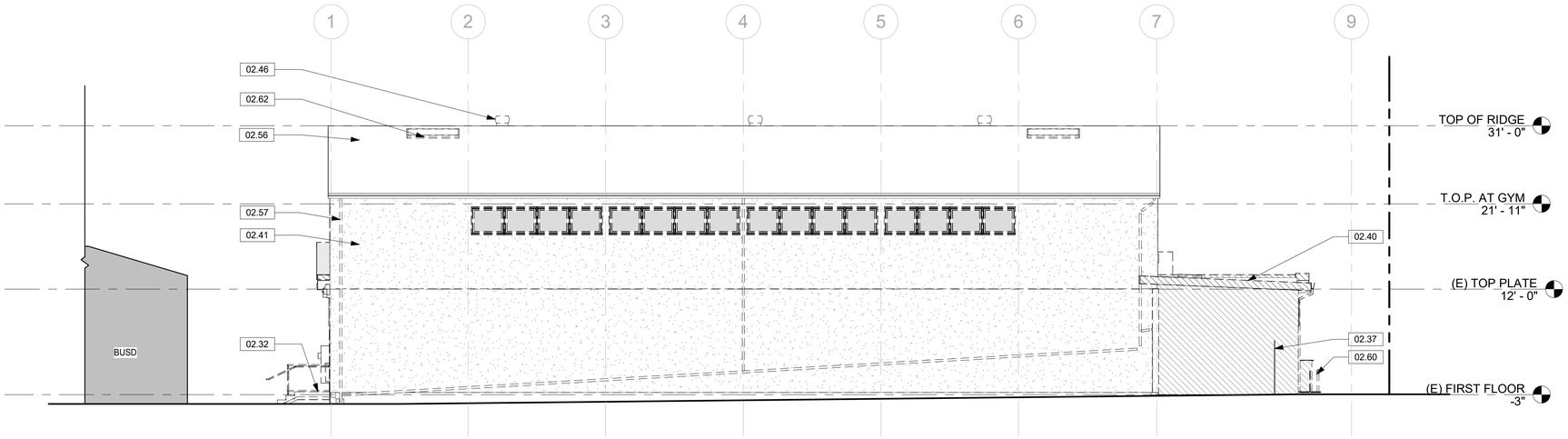
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2 A1.05 WEST DEMOLITION ELEVATION

1/8" = 1'-0" @ 22" x 34" 1/16" = 1'-0" @ 11" x 17"



1 A1.05 SOUTH DEMOLITION ELEVATION

1/8" = 1'-0" @ 22" x 34" 1/16" = 1'-0" @ 11" x 17"

0 4 8 16 ft.

LEGEND

(E) WALL STUDS TO REMAIN ALL FINISH TO BE REMOVED

(E) WALL TO BE REMOVED COMPLETELY

(E) BUILDING ELEMENT TO BE REMOVED

KEYNOTE LEGEND

Key Value	Keynote Text
02.32	REMOVE (E) SITE STAIR, SCD
02.35	REMOVE (E) LIGHT
02.37	REMOVE (E) FENCE AND GATE
02.40	REMOVE (E) ROOF
02.41	REMOVE (E) EXTERIOR PTD CEMENT PLASTER FINISH
02.42	REMOVE (E) DOOR, FRAME, AND THRESHOLD W.O.
02.46	REMOVE (E) MECHANICAL DUCTING/ EQUIPMENT, SMD
02.56	REMOVE (E) MEMBRANE ROOFING
02.57	REMOVE (E) GUTTER & DOWNSPOUT
02.59	REMOVE (E) UTILITIES
02.60	REMOVE (E) BIKE RACK
02.62	REMOVE (E) SKYLIGHT
02.63	REMOVE (E) LOUVERS

Project Title:

CITY OF BERKELEY
PARKS, RECREATION & WATERFRONT DEPARTMENT
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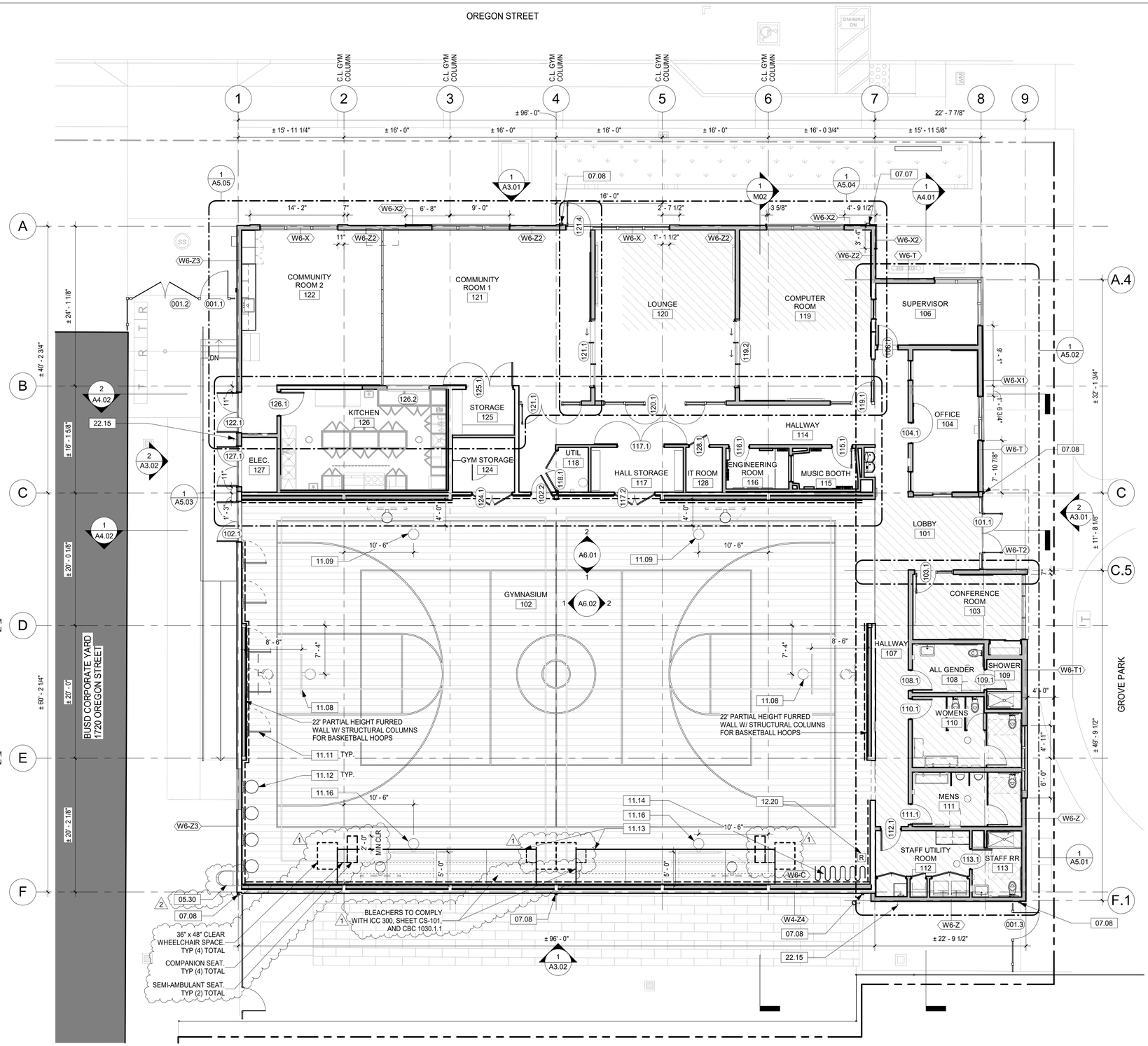
Sheet Title:

DEMO ELEVATIONS

Sheet No.:

A1.05

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1 A2.01 FIRST FLOOR PLAN
1/8" = 1'-0" @ 22" x 34" 1/16" = 1'-0" @ 11" x 17"

LEGEND

- (E) STUD WALL WITH (N) FINISH
- (N) WALL
- PROTECTIVE WALL PADDING
- (E) GYMNASIUM FLOORING TO REMAIN REFINISHED WITH NEW STRIPING
- (N) BUILT-UP LIGHTWEIGHT CONCRETE FLOOR OVER (E) SLAB, MATCH FFE OF GYM
- (N) SLAB AND FLOORING

KEYNOTE LEGEND

Key Value	Keynote Text
05.30	FIXED LADDER WITH LADDER SAFETY SYSTEM, SAFETY CAGE AND SECURITY PANEL
07.07	6 IN. SCH 40 COLLECTOR HEAD AND DOWNSPOUT, SPD
07.08	4 IN. GSM DOWNSPOUT, PTD
11.08	WALL-MOUNTED UP-FOLDING BASKETBALL HOOP
11.09	WALL-MOUNTED SIDE-FOLDING BASKETBALL HOOP
11.11	RETRACTABLE HEAVY BAG BOXING MOUNTS
11.12	RETRACTABLE SPEED BAG BOXING MOUNTS
11.13	ADD ALT 2: WALL-MOUNTED TELESCOPIC BLEACHERS
11.14	GYM DIVIDER CURTAIN
11.16	ADD ALT 1: WALL-MOUNTED SIDE-FOLDING BASKETBALL HOOP
12.20	WASTE / RECYCLING RECEPTACLE, OFOI
22.15	HOSE BIBB, SPD

SHEET NOTES

1. GRID LINES LOCATED AT FACE OF STUD, TYP UON.
2. ALL DIMENSIONS ARE TO FACE OF STUD, TYP UON.
3. DIMENSIONS NOTED AS CLEAR, MINIMUM, OR ALIGN ARE TO FACE OF FINISH, TYP UON.
4. ALL DOORS ARE LOCATED PER JAMB DETAILS ON SHEET A7.01, TYP UON.
5. SEE SHEETS G1.01 & G1.02 FOR TYPICAL CLEARANCES, MOUNTING HEIGHTS, & ACCESSIBILITY REQUIREMENTS.
6. SEE SHEET A8.01 FOR TYPICAL WALL ASSEMBLIES.
7. PATCH ALL AREAS WHERE EXISTING CONSTRUCTION WAS REMOVED FOR INSTALLATION OF STRUCTURAL, MECHANICAL, ELECTRICAL, PLUMBING, AND FIRE PROTECTION SYSTEMS.
8. PROVIDE BLOCKING AT WALLS & CEILINGS FOR SURFACE MOUNTED EQUIPMENT, TYP.

N

0 4 8 16 ft.

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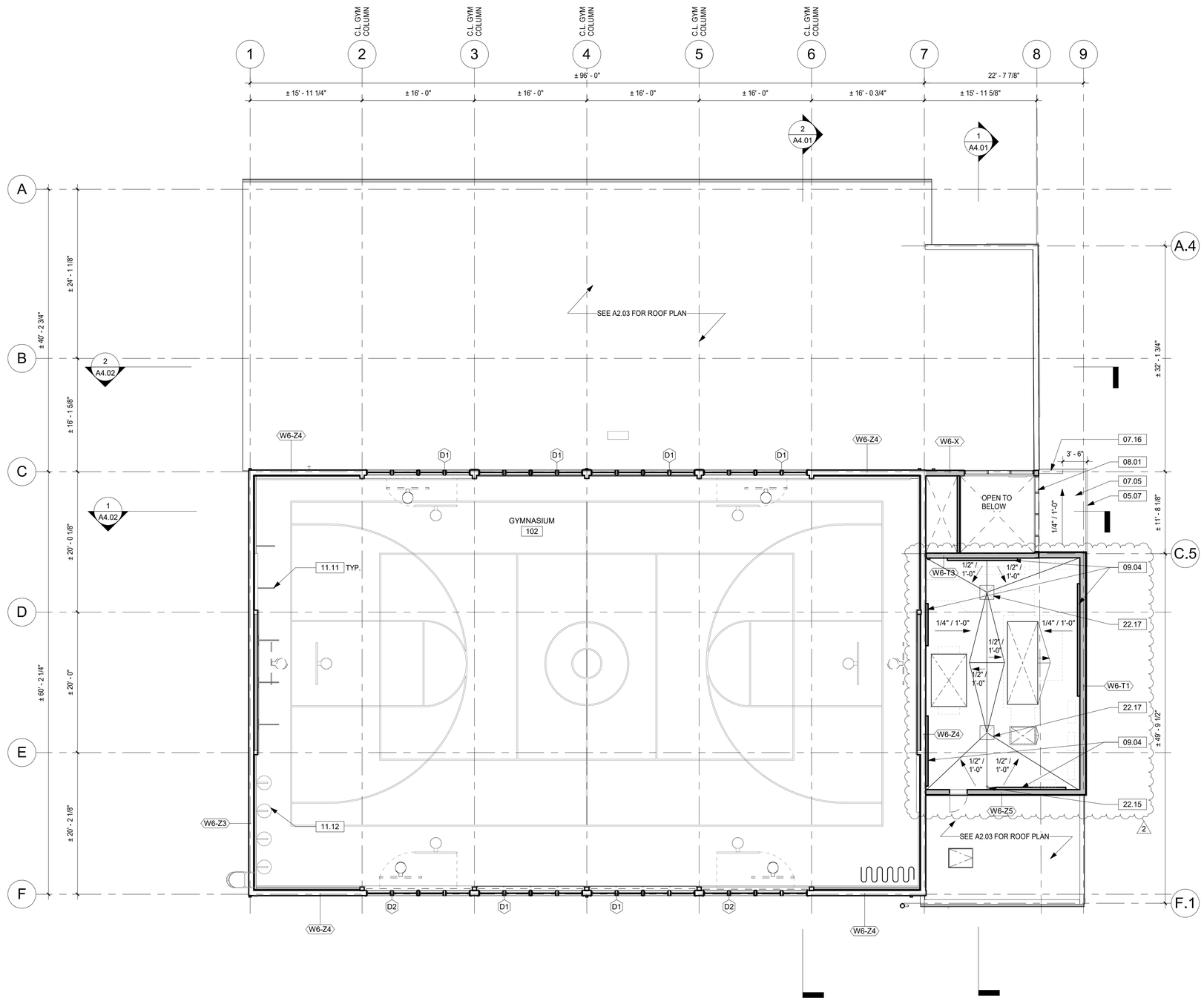
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Project ID:	YAP
Drawn by:	MJ
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Plot Date:	
Scale:	1/8" = 1'-0"

Sheet Title:
FLOOR PLAN

Sheet No.:
A2.01

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1 A2.02 GYM CLERESTORY PLAN
1/8" = 1'-0"

LEGEND

- (E) STUD WALL WITH (N) FINISH
- (N) WALL
- PROTECTIVE WALL PADDING
- (E) GYMNASIUM FLOORING TO REMAIN REFINISHED WITH NEW STRIPING
- (N) BUILT-UP LIGHTWEIGHT CONCRETE FLOOR OVER (E) SLAB, MATCH FFE OF GYM
- (N) SLAB AND FLOORING

KEYNOTE LEGEND

Key Value	Keynote Text
05.07	STEEL FRAMED CANOPY, SSD
07.05	TPO ROOFING
07.16	3 IN. GSM GUTTER, PTD
08.01	ALUM STOREFRONT SYSTEM
09.04	ACOUSTIC WALL PANELS
11.11	RETRACTABLE HEAVY BAG BOXING MOUNTS
11.12	RETRACTABLE SPEED BAG BOXING MOUNTS
22.15	HOSE BIBB, SPD
22.17	ROOF DRAIN WITH OVERFLOW, SPD. COORDINATE FINAL LOCATION WITH MECHANICAL EQUIPMENT

SHEET NOTES

1. GRID LINES LOCATED AT FACE OF STUD, TYP UON.
2. ALL DIMENSIONS ARE TO FACE OF STUD, TYP UON.
3. DIMENSIONS NOTED AS CLEAR, MINIMUM, OR ALIGN ARE TO FACE OF FINISH, TYP UON.
4. ALL DOORS ARE LOCATED PER JAMB DETAILS ON SHEET A7.01, TYP UON.
5. SEE SHEETS G1.01 & G1.02 FOR TYPICAL CLEARANCES, MOUNTING HEIGHTS, & ACCESSIBILITY REQUIREMENTS.
6. SEE SHEET A8.01 FOR TYPICAL WALL ASSEMBLIES.
7. PATCH ALL AREAS WHERE EXISTING CONSTRUCTION WAS REMOVED FOR INSTALLATION OF STRUCTURAL, MECHANICAL, ELECTRICAL, PLUMBING, AND FIRE PROTECTION SYSTEMS.
8. PROVIDE BLOCKING AT WALLS & CEILINGS FOR SURFACE MOUNTED EQUIPMENT, TYP.

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2	COORDINATION	02/28/25

Issue Note: PERMIT RESUBMITTAL 03/07/25

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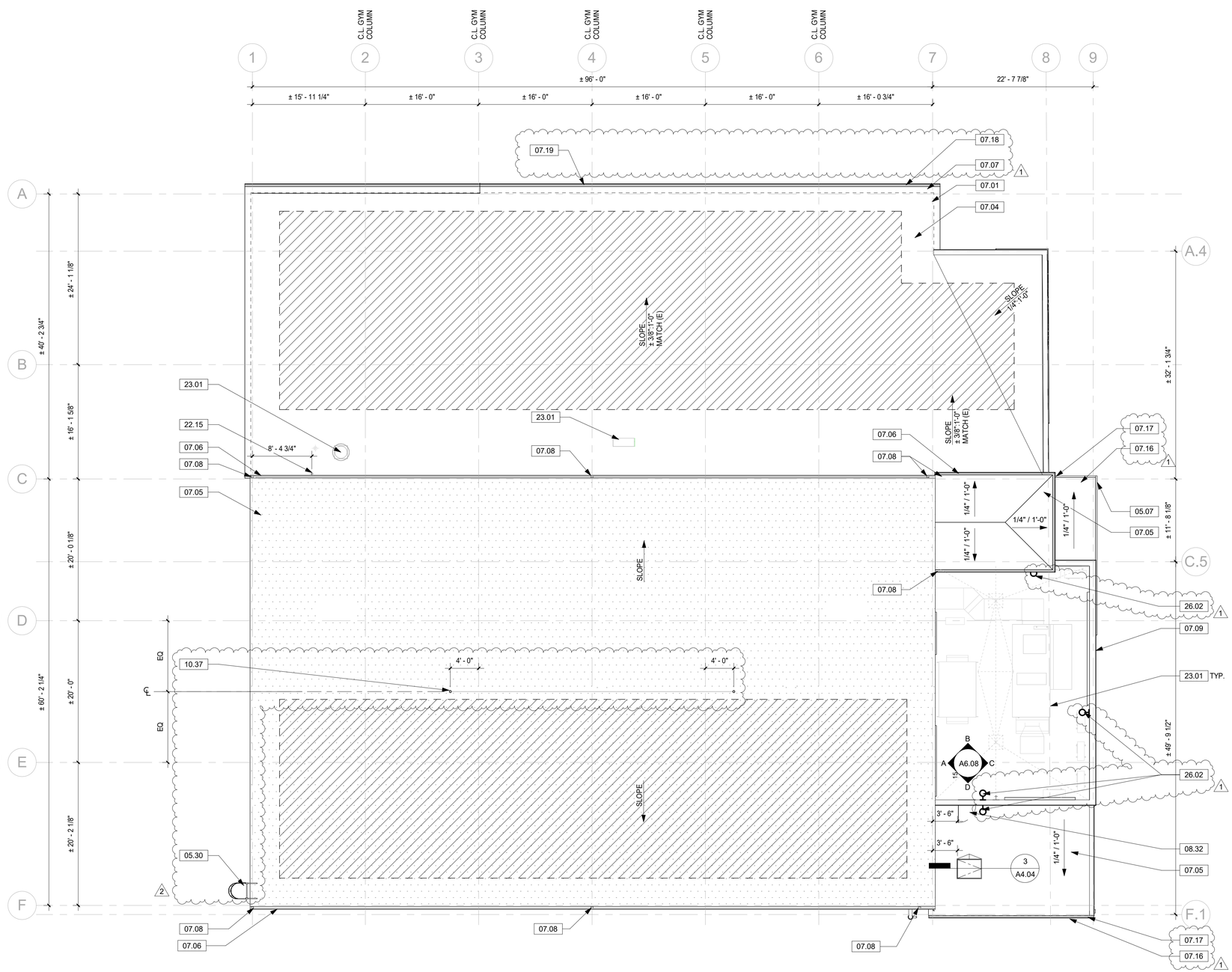
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GYM CLERESTORY PLAN

Sheet No.:

A2.02

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1 ROOF PLAN
A2.03
1/8" = 1'-0" @ 22" x 34" 1/16" = 1'-0" @ 11" x 17"

LEGEND

ROOF MOUNTED PV ARRAY

(N) ROOF MEMBRANE OVER (E) STRUCTURE

KEYNOTE LEGEND

Key Value	Keynote Text
05.07	STEEL FRAMED CANOPY, SSD
05.30	FIXED LADDER WITH LADDER SAFETY SYSTEM, SAFETY CAGE AND SECURITY PANEL
07.01	LINE OF WALL BELOW SHOWN DASHED, TYP
07.04	TPO ROOFING, MATCH SLOPE AND HEIGHT OF (E)
07.05	TPO ROOFING
07.06	4 IN. GSM GUTTER, PTD
07.07	6 IN. SCH 40 COLLECTOR HEAD AND DOWNSPOUT, SPD
07.08	4 IN. GSM DOWNSPOUT, PTD
07.09	PARAPET
07.16	3 IN. GSM GUTTER, PTD
07.17	3 IN. GSM DOWNSPOUT, PTD
07.18	6 IN. GSM GUTTER, PTD
07.19	6 IN. GSM DOWNSPOUT, PTD
08.32	EXTERIOR ACCESS DOOR
10.37	ROOF TIE-OFF ANCHOR
22.15	HOSE BIBB, SPD
23.01	MECHANICAL EQUIPMENT, SMD
26.02	LIGHT FIXTURE, SED

SHEET NOTES

1. NEW STRUCTURAL PLYWOOD, R-5 INSULATION, AND ROOFING MEMBRANE TO BE ADDED TO (E) ROOF
2. DIMENSIONS ARE TAKEN FROM FACE OF FINISH UON
3. PATCH ALL AREAS WHERE EXISTING CONSTRUCTION WAS REMOVED FOR INSTALLATION OF STRUCTURAL, MECHANICAL, ELECTRICAL, PLUMBING, AND FIRE PROTECTION SYSTEMS.

N

0 4 8 16 ft.

Project Title:

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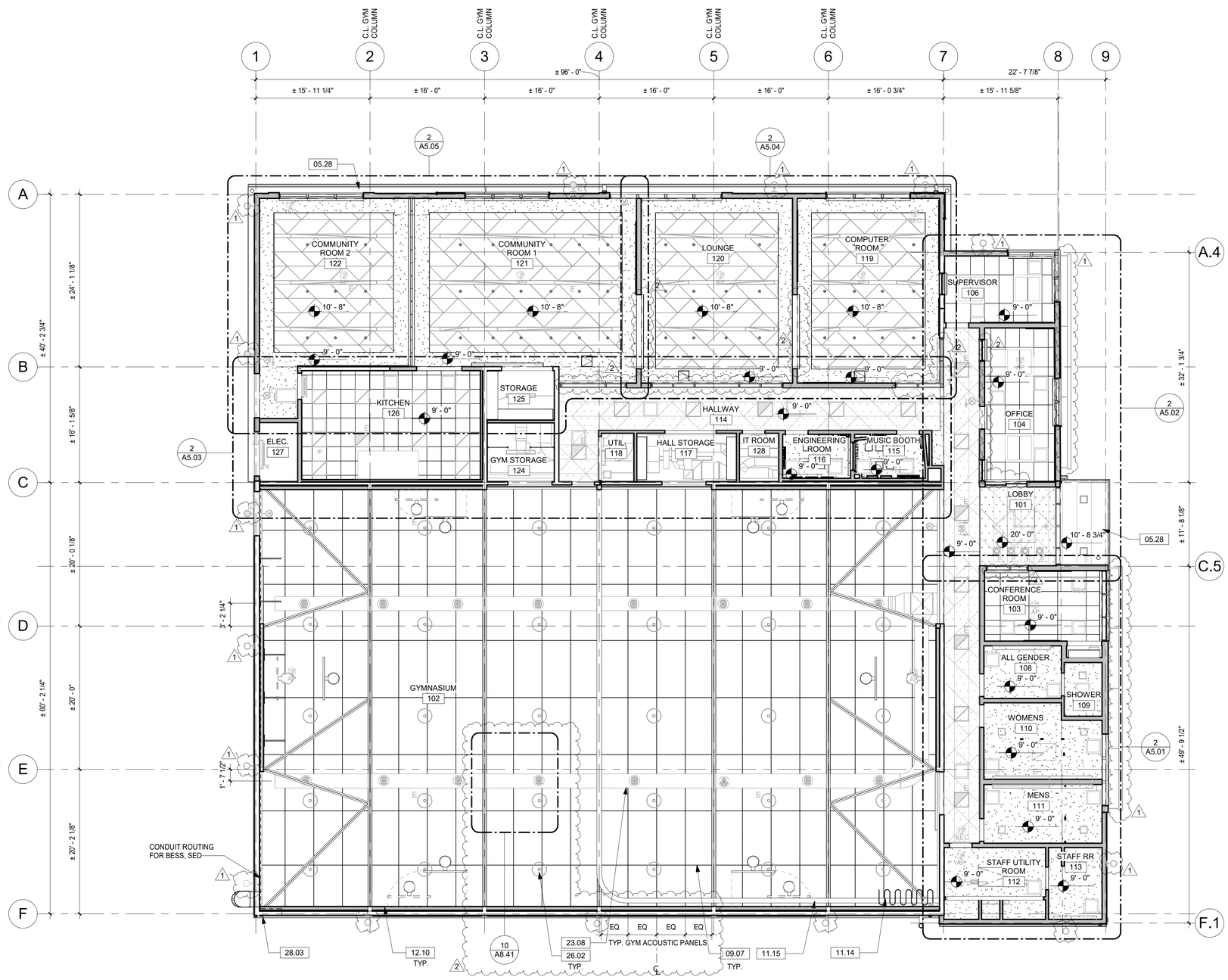
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Scale:	As indicated

Sheet Title:
ROOF PLAN

Sheet No.:
A2.03

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1 A2.04 FIRST FLOOR REFLECTED CEILING PLAN

1/8" = 1'-0" @ 22" x 34" 1/16" = 1'-0" @ 11" x 17"

LEGEND

- (E) STUD WALL WITH (N) FINISH
- (N) WALL
- GYPSUM BOARD CEILING
- ACT-1: 2' X 4' ACT CEILING
- ACT-2: 2' x 6' GEOMETRIC ACT CEILING W/ INTEGRATED LIGHTING
- ACT-3: 2' X 2' ACT CEILING MEETING USDA/ FSIS GUIDELINES
- WD-1: GEOMETRIC WOOD PANEL CEILING
- EXPOSED STRUCTURE
- LIGHT FIXTURE, SED 'E' INDICATES EMERGENCY LUMINAIRE
- EXIT SIGN, SED

KEYNOTE LEGEND

Key Value	Keynote Text
05.28	METAL SOFFIT PANEL
09.07	ACOUSTIC PET BOARD
11.14	GYM DIVIDER CURTAIN
11.15	GYM DIVIDER CURTAIN TRACK
12.10	MANUAL ROLLER SHADE, SEE WDW SCHEDULE
23.08	DUCT, SMD
26.02	LIGHT FIXTURE, SED
28.03	ADD ALT 4: SECURITY CAMERA, SEE SECURITY DWGS

SHEET NOTES

1. CEILING HEIGHT IS 9'-0" ABOVE FFE, TYP UON.
2. SEE ENLARGED RCPs FOR DIMENSIONS AND ADDITIONAL INFORMATION.
3. CENTER CEILING GRID IN ROOM, BOTH DIRECTIONS, TYP UON.
4. ALIGN CEILING DEVICES, TYP UON.
5. CONCEAL SPRINKLER PIPING AT FINISHED CEILING SPACES, TYP UON.
6. SEE WINDOW SCHEDULE FOR LOCATIONS OF CURTAINS AND WINDOW COVERINGS.
7. CENTER LIGHTING AND DEVICES ON ACOUSTICAL CEILING GRID, TYP UON.
8. VERIFY LENGTHS IN FIELD PRIOR TO INSTALLATION OF CUSTOM LENGTH LIGHT FIXTURES.

N

0 4 8 16 ft.

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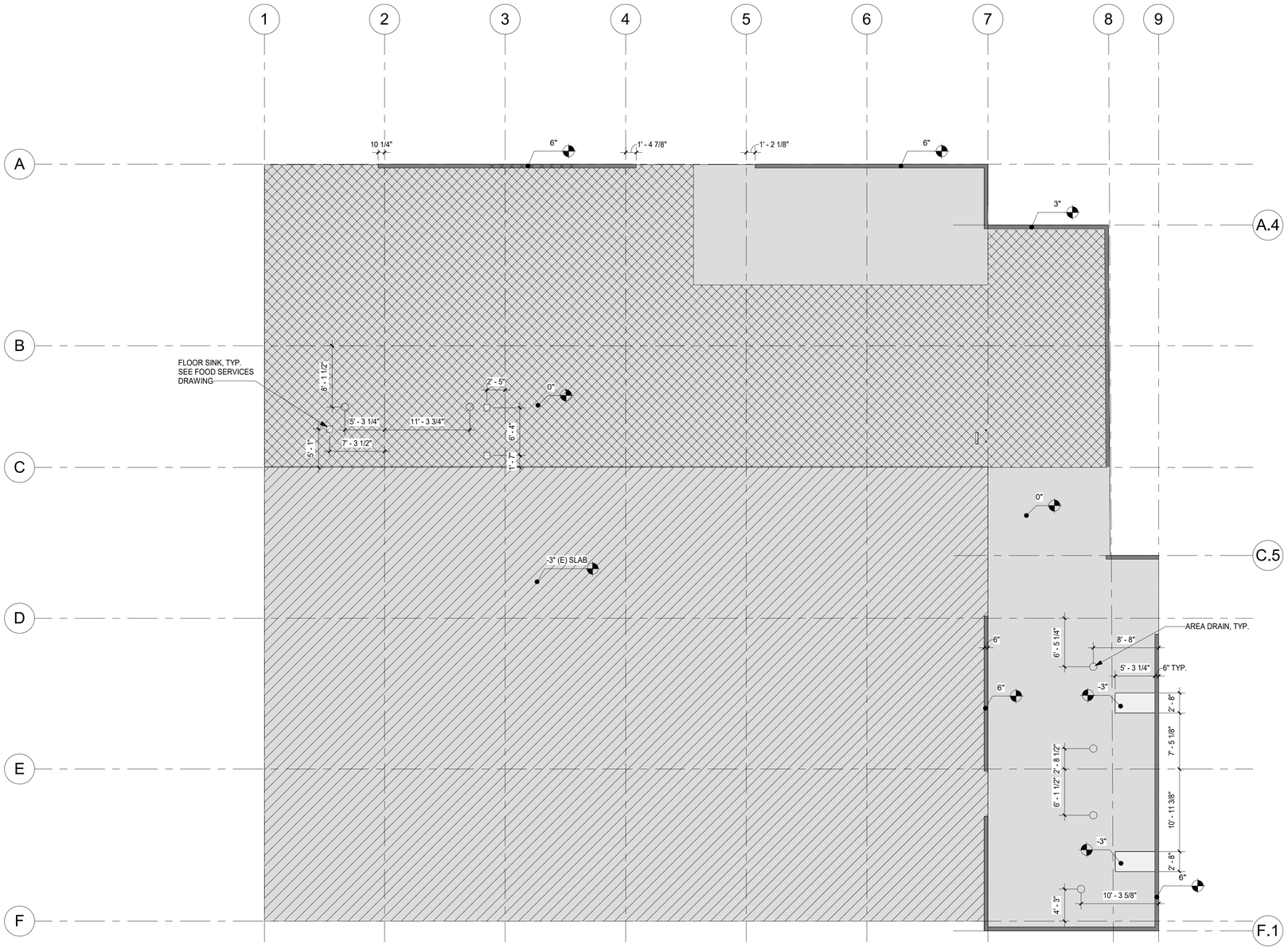
Sheet Title:

REFLECTED CEILING PLAN

Sheet No.:

A2.04

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1 A2.05 FIRST FLOOR SLAB PLAN

1/8" = 1'-0"

LEGEND

- NEW CONCRETE SLAB
- NEW CONCRETE CURB
- (E) SLAB UNDER GYMNASIUM FLOORING TO REMAIN
- TOPPING SLAB OVER (E) SLAB, SSD

SHEET NOTES

1. GRID LINES LOCATED AT FACE OF STUD, TYP UON.
2. ALL DIMENSIONS ARE TO FACE OF CONCRETE, TYP UON.
3. DIMENSIONS NOTED AS CLEAR, MINIMUM, OR ALIGN ARE TO FACE OF FINISH, TYP UON.

N

0 4 8 16 ft.

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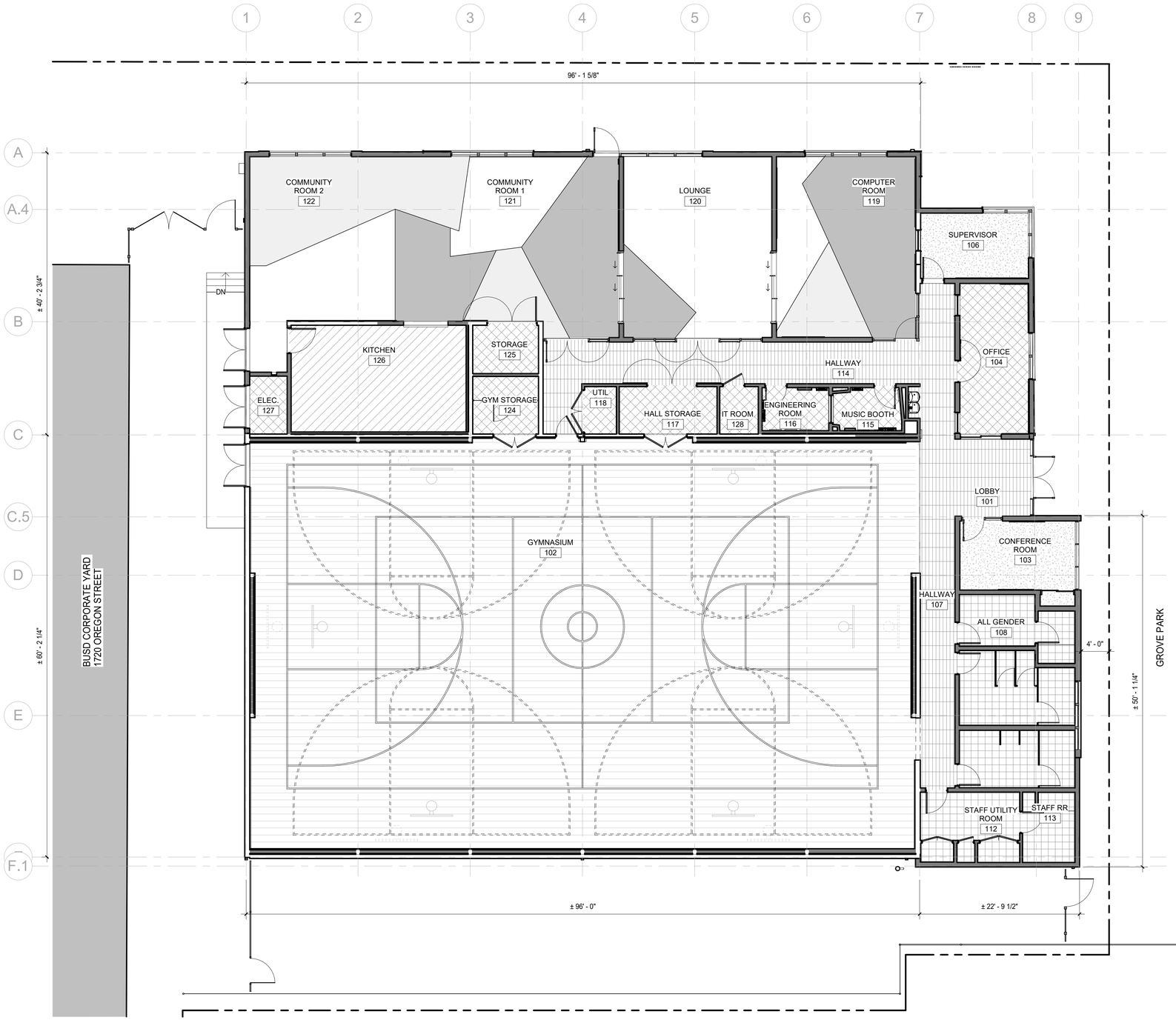
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Sheet Title: SLAB PLAN

Sheet No.: A2.05

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1 A2.06 FIRST FLOOR FINISH PLAN

1/8" = 1'-0" @ 22" x 34" 1/16" = 1'-0" @ 11" x 17"

LEGEND

- (E) GYMNASIUM FLOORING TO REMAIN, REFINISHED WITH NEW STRIPING
- ATH: FLUID APPLIED ATHLETIC FLOORING
- CPT: CARPET TILE
- RES: RESINOUS FLOORING
- LIN: LINOLEUM FLOORING
- TL-5: LARGE FORMAT PORCELAIN TILE
- TL-6: PORCELAIN FLOOR TILE

SHEET NOTES

1. GRID LINES LOCATED AT FACE OF STUD, TYP UON.
2. ALL DIMENSIONS ARE TO FACE OF STUD, TYP UON.
3. DIMENSIONS NOTED AS CLEAR, MINIMUM, OR ALIGN ARE TO FACE OF FINISH, TYP UON.
4. SEE A7.03 FOR FINISH SCHEDULE

N

0 4 8 16 ft.

Project Title:

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No.	Description	Date
	PERMIT SET	12/04/24

Issue Note: PERMIT RESUBMITTAL 03/07/25

City Plan No.:	8286
City File No.:	402-145
Specification No.:	#25-11695-C
Project ID:	YAP
Drawn by:	HL
Checked by:	KR
Plot Date:	
Scale:	1/8" = 1'-0"

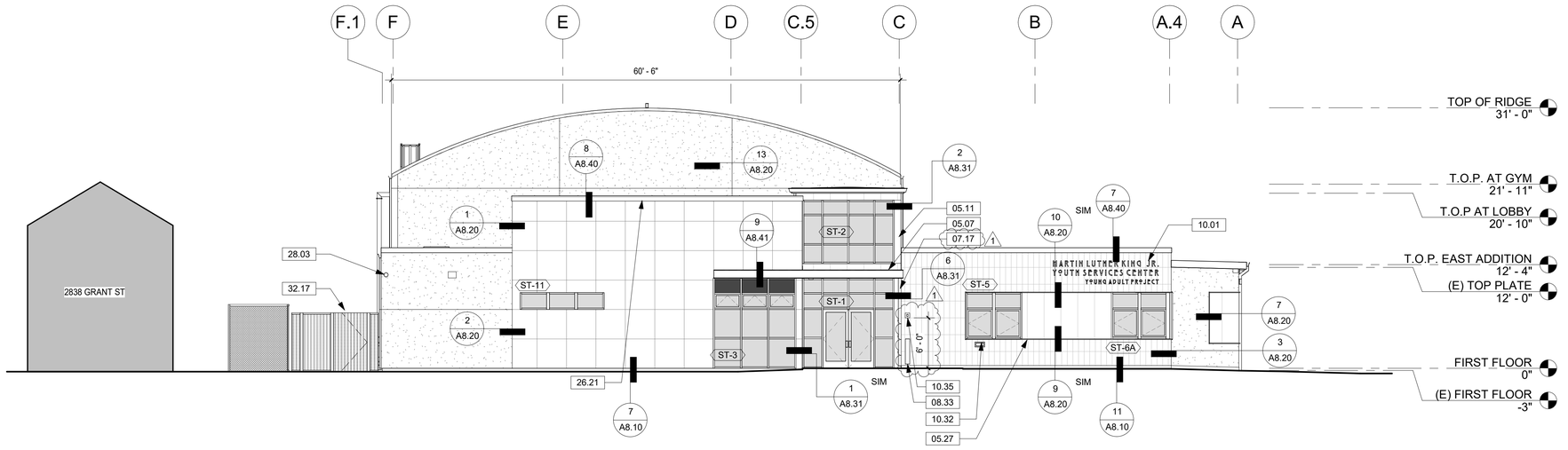
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FINISH FLOOR PLAN

Sheet No.:

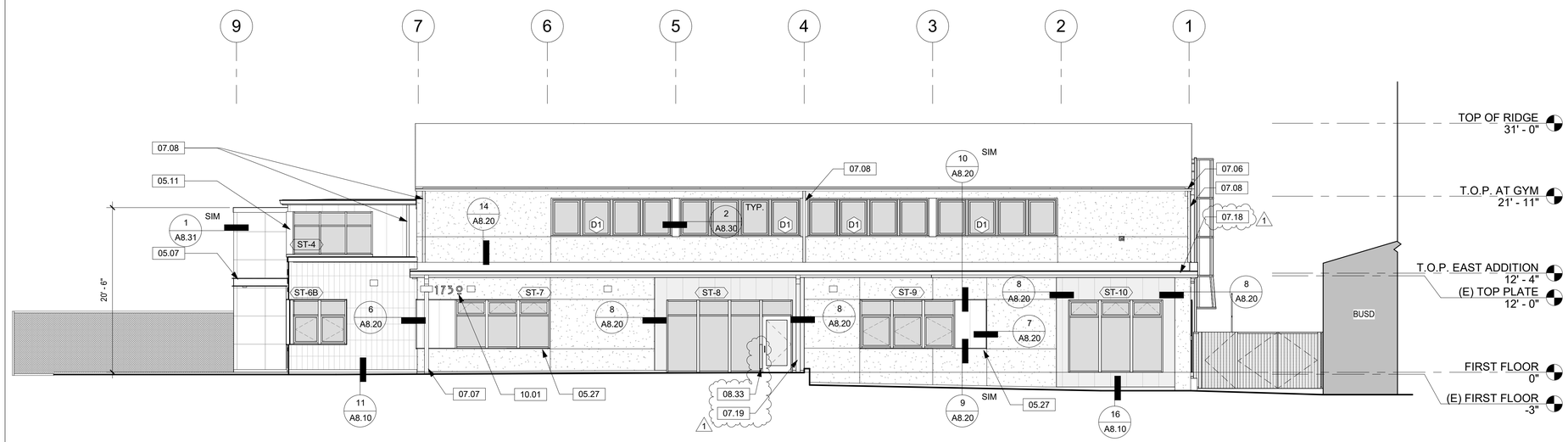
A2.06

3/7/2025 5:09:43 PM



2 A3.01 **EAST ELEVATION**

1/8" = 1'-0" @ 22" x 34" 1/16" = 1'-0" @ 11" x 17"



1 A3.01 **NORTH ELEVATION**

1/8" = 1'-0" @ 22" x 34" 1/16" = 1'-0" @ 11" x 17"

LEGEND

- PAINTED PLASTER CEMENT FINISH
- TL-1: MURAL TILE FINISH - MATERIAL AND INSTALLATION OF TILES BY OTHERS. GC TO PREP SUBSTRATE AND EDGE TRIM
- TL-2: FIELD TILE FINISH
- MP-1: METAL PANEL FINISH
- MP-2: METAL PANEL FINISH OVER Z-GIRT

KEYNOTE LEGEND

Key Value	Keynote Text
05.07	STEEL FRAMED CANOPY, SSD
05.11	SHEET METAL
05.27	METAL ANGLE SURROUND
07.06	4 IN. GSM GUTTER, PTD
07.07	6 IN. SCH 40 COLLECTOR HEAD AND DOWNSPOUT, SPD
07.08	4 IN. GSM DOWNSPOUT, PTD
07.17	3 IN. GSM DOWNSPOUT, PTD
07.18	6 IN. GSM GUTTER, PTD
07.19	6 IN. GSM DOWNSPOUT, PTD
08.33	DOOR AUTO-OPERATOR
10.01	SIGNAGE
10.32	EXTERIOR MAIL SLOT WITH RECEPTACLE
10.35	FIRE DEPARTMENT KNOX BOX PER CFC §506.1
26.21	LINEAR WALL WASHERS
28.03	ADD ALT 4: SECURITY CAMERA, SEE SECURITY DWGS
32.17	STEEL PICKET FENCE W/ PEDESTRIAN GATE

SHEET NOTES

1. ALL EXTERIOR FINISHES SHALL COMPLY WITH LOCAL BUILDING CODES AND MANUFACTURER'S INSTALLATION REQUIREMENTS.
2. REFER TO WINDOW SCHEDULE SHEET A7.02 FOR DETAILS ON WINDOW TYPES AND PLACEMENTS.
3. REFER TO STOREFRONT SCHEDULE SHEET A7.03 FOR DETAILS ON STOREFRONT TYPES.

0 4 8 16 ft.

Project Title:

CITY OF BERKELEY
PARKS, RECREATION & WATERFRONT DEPARTMENT

MLK JR. YOUTH SERVICES CENTER / YAP SEISMIC RETROFIT AND RENOVATION

1730 Oregon Street, Berkeley, CA 94703
APN#: 053-1676-001-02

Design Firm:
SIEGEL & STRAIN Architects
6201 Doyle Street, Suite B
Emeryville, CA 94608
TEL 510 / 547-8092
info@siegelstrain.com

Consultant:

Stamp:

LICENSED ARCHITECT
KAREN RICHARDS
No. C-32146
Exp: 08-31-25
STATE OF CALIFORNIA

No.	Description	Date
	PLANNING SET	01/09/23
	PLANNING RESUBMITTAL	4/28/23
	PERMIT SET	12/04/24
1	PLAN CHECK #1	03/07/25

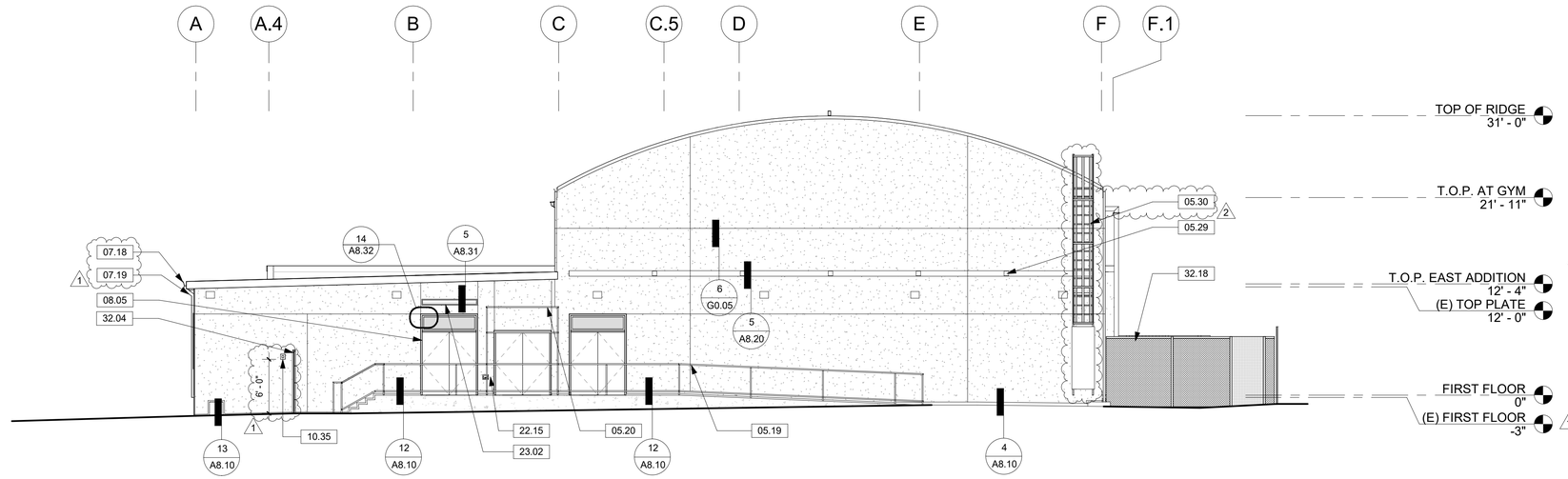
Issue Note: PERMIT RESUBMITTAL 03/07/25

City Plan No.:	8286
City File No.:	402-145
Specification No.:	#25-11695-C
Project ID:	YAP
Drawn by:	MJ
Checked by:	KR
Plot Date:	
Scale:	1/8" = 1'-0"

Sheet Title: ELEVATIONS

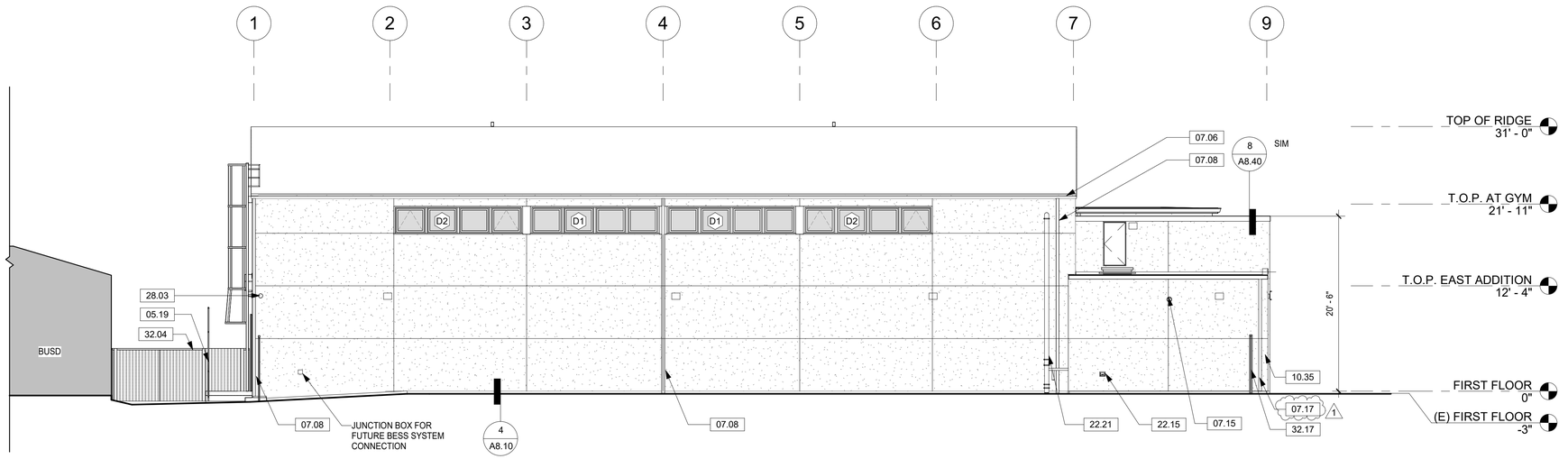
Sheet No.: A3.01

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2 A3.02 WEST ELEVATION

1/8" = 1'-0" @ 22" x 34" 1/16" = 1'-0" @ 11" x 17"



1 A3.02 SOUTH ELEVATION

1/8" = 1'-0" @ 22" x 34" 1/16" = 1'-0" @ 11" x 17"

LEGEND

- PAINTED PLASTER CEMENT FINISH
- TL-1: MURAL TILE FINISH - MATERIAL AND INSTALLATION OF TILES BY OTHERS. GC TO PREP SUBSTRATE AND EDGE TRIM
- TL-2: FIELD TILE FINISH
- MP-1: METAL PANEL FINISH
- MP-2: METAL PANEL FINISH OVER Z-GIRT

KEYNOTE LEGEND

Key Value	Keynote Text
05.19	STEEL HANDRAIL W/ KICKRAIL
05.20	STEEL RAIL DRYING RACK
05.29	WALL CLAMP PLATE WITH EYEBOLT ATTACHMENT
05.30	FIXED LADDER WITH LADDER SAFETY SYSTEM, SAFETY CAGE AND SECURITY PANEL
07.06	4 IN. GSM GUTTER, PTD
07.08	4 IN. GSM DOWNSPOUT, PTD
07.15	OVERFLOW DRAIN DOWNSPOUT COVER
07.17	3 IN. GSM DOWNSPOUT, PTD
07.18	6 IN. GSM GUTTER, PTD
07.19	6 IN. GSM DOWNSPOUT, PTD
08.05	HOLLOW METAL DOOR & FRAME
10.35	FIRE DEPARTMENT KNOX BOX PER CFC §506.1
22.15	HOSE BIBB, SPD
22.21	FIRE RISER, SPD
23.02	MECHANICAL LOUVER, SMD
28.03	ADD ALT 4: SECURITY CAMERA, SEE SECURITY DWGS
32.04	STEEL PICKET FENCE W/ VEHICULAR AND PEDESTRIAN EGRESS GATE
32.17	STEEL PICKET FENCE W/ PEDESTRIAN GATE
32.18	CHAIN LINK FENCING

SHEET NOTES

1. ALL EXTERIOR FINISHES SHALL COMPLY WITH LOCAL BUILDING CODES AND MANUFACTURER'S INSTALLATION REQUIREMENTS.
2. REFER TO WINDOW SCHEDULE SHEET A7.02 FOR DETAILS ON WINDOW TYPES AND PLACEMENTS.
3. REFER TO STOREFRONT SCHEDULE SHEET A7.03 FOR DETAILS ON STOREFRONT TYPES.

0 4 8 16 ft.

Project Title:

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Stamp:

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KAREN RICHARDS
No. C-32146
Exp: 08-31-25
STATE OF CALIFORNIA

No.	Description	Date
	PLANNING SET	01/09/23
	PLANNING RESUBMITTAL	4/28/23
	PERMIT SET	12/04/24
1	PLAN CHECK #1	03/07/25
2	COORDINATION	02/28/25

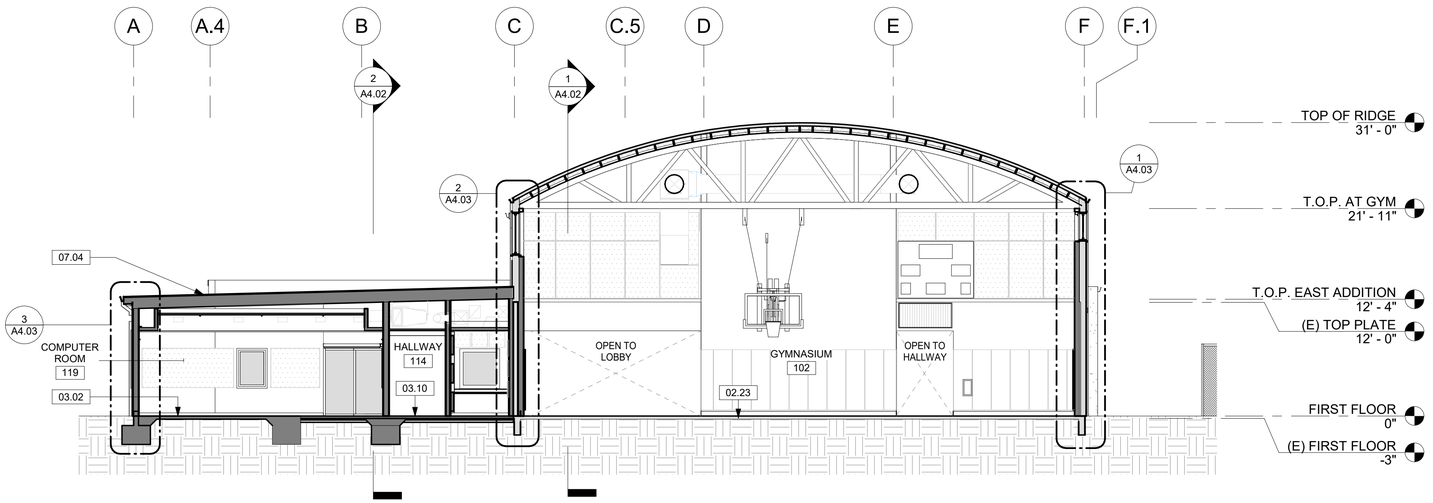
Issue Note: PERMIT RESUBMITTAL 03/07/25

City Plan No.:	8286
City File No.:	402-145
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Project ID:	YAP
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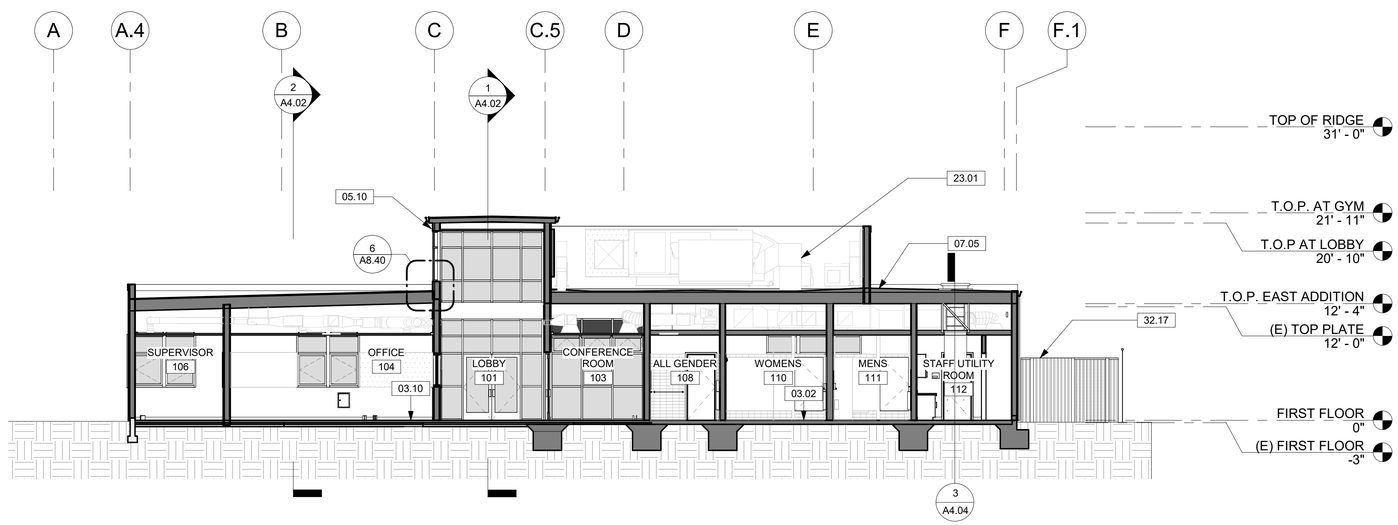
Sheet Title: ELEVATIONS

Sheet No.: A3.02

3/11/2025 5:12:22 PM



2 A4.01 CROSS SECTION AT GYMNASIUM
1/8" = 1'-0" @ 22" x 34" 1/16" = 1'-0" @ 11" x 17"



1 A4.01 CROSS SECTION AT LOBBY
1/8" = 1'-0" @ 22" x 34" 1/16" = 1'-0" @ 11" x 17"

0 4 8 16 ft.

LEGEND

(E) CONSTRUCTION WITH (N) FINISH

(N) CONSTRUCTION

KEYNOTE LEGEND

Key Value	Keynote Text
02.23	(E) GYM FLOOR TO REMAIN, REFINISH AND RESTRIPE
03.02	CONCRETE SLAB ON GRADE, SSD
03.10	CONCRETE TOPPING SLAB OVER (E) SLAB
05.10	METAL COMPOSITE WALL PANELS
07.04	TPO ROOFING, MATCH SLOPE AND HEIGHT OF (E)
07.05	TPO ROOFING
23.01	MECHANICAL EQUIPMENT, SMD
32.17	STEEL PICKET FENCE W/ PEDESTRIAN GATE

Project Title:

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	PERMIT SET	12/04/24

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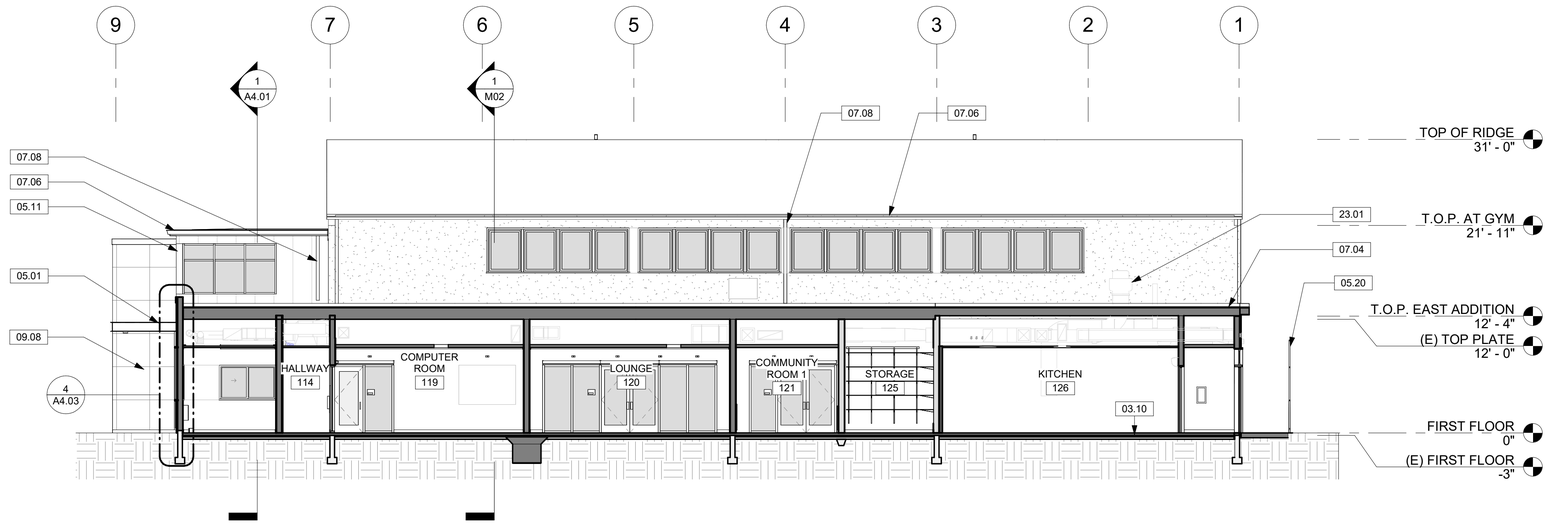
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SECTIONS

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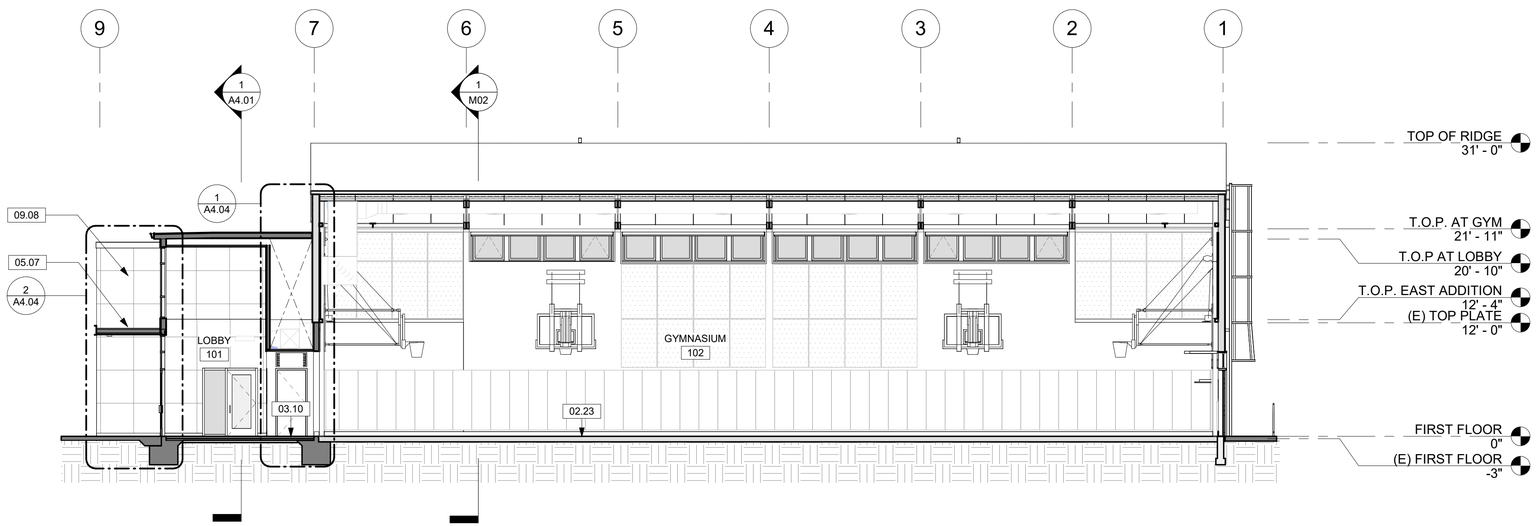
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2 A4.02 LONGITUDINAL SECTION AT NORTHERN ADDITION

1/8" = 1'-0" @ 22" x 34" 1/16" = 1'-0" @ 11" x 17"



1 A4.02 LONGITUDINAL SECTION AT GYMNASIUM

1/8" = 1'-0" @ 22" x 34" 1/16" = 1'-0" @ 11" x 17"

LEGEND

(E) CONSTRUCTION WITH (N) FINISH

(N) CONSTRUCTION

KEYNOTE LEGEND

Key Value	Keynote Text
02.23	(E) GYM FLOOR TO REMAIN, REFINISH AND RESTRIPE
03.10	CONCRETE TOPPING SLAB OVER (E) SLAB
05.01	STRUCTURAL STEEL FRAMING, SSD
05.07	STEEL FRAMED CANOPY, SSD
05.11	SHEET METAL
05.20	STEEL RAIL DRYING RACK
07.04	TPO ROOFING, MATCH SLOPE AND HEIGHT OF (E)
07.06	4 IN. GSM GUTTER, PTD
07.08	4 IN. GSM DOWNSPOUT, PTD
09.08	MURAL TILE FINISH - MATERIAL AND INSTALLATION OF TILES BY OTHERS. GC TO PREP SUBSTRATE AND EDGE TRIM
23.01	MECHANICAL EQUIPMENT, SMD

0 4 8 16 ft.

Project Title:

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No.	Description	Date
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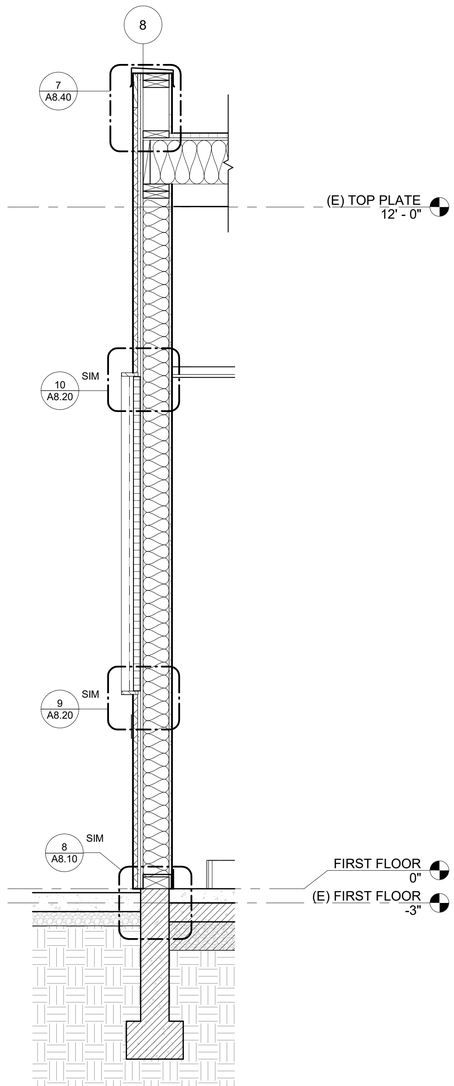
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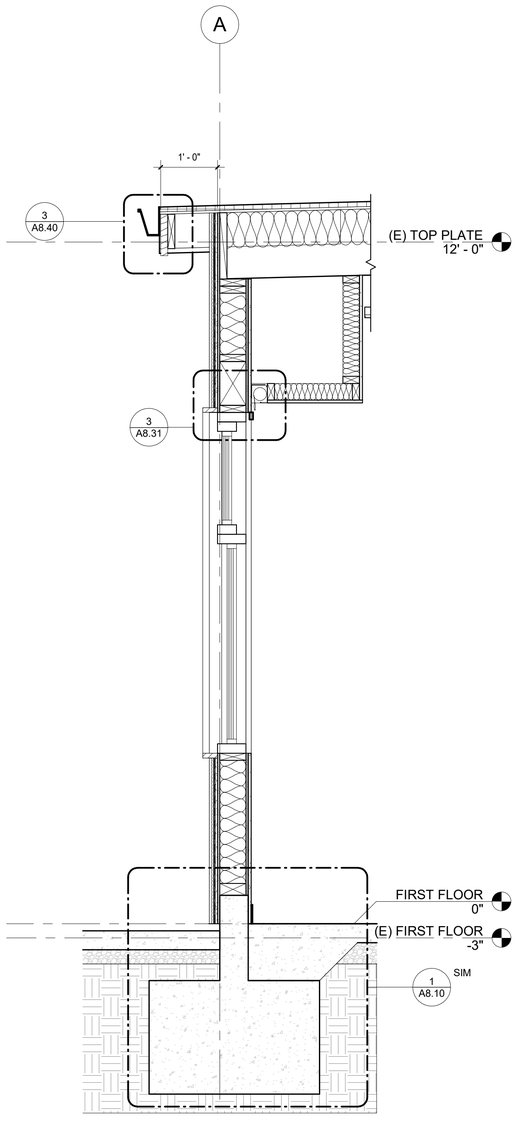
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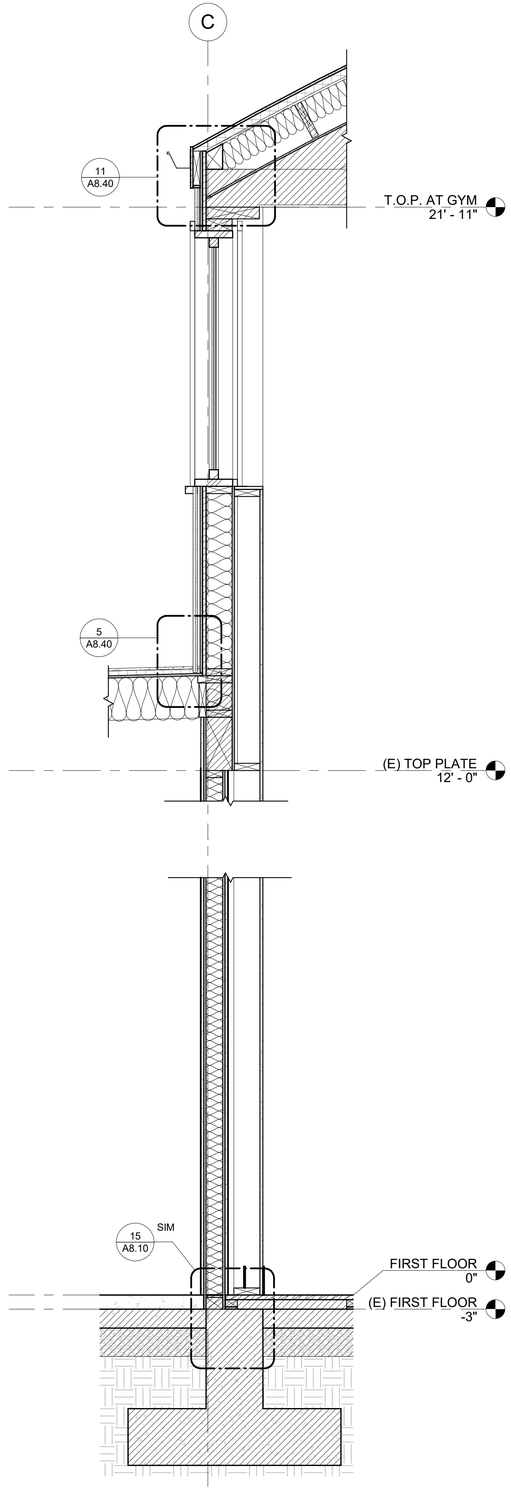
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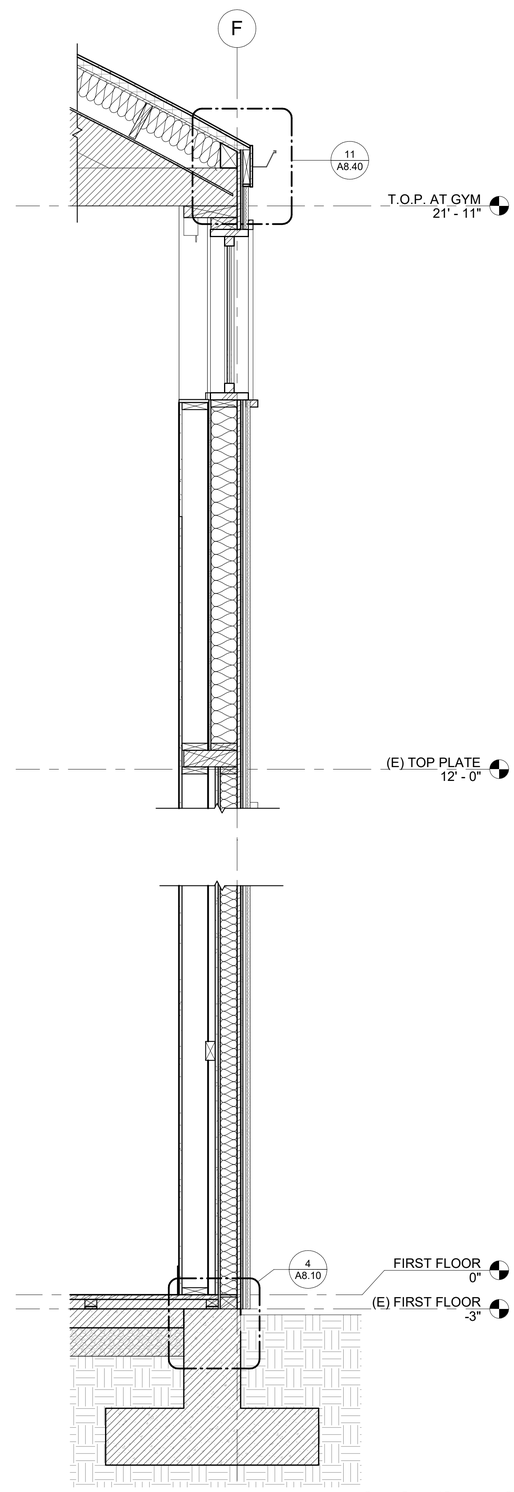
4 A4.03 WALL SECTION - NORTH ADDITION EAST WALL
3/4" = 1'-0"



3 A4.03 WALL SECTION - NORTH ADDITION
3/4" = 1'-0"



2 A4.03 WALL SECTION - GYM NORTH WALL
3/4" = 1'-0"



1 A4.03 WALL SECTION - GYM SOUTH WALL
3/4" = 1'-0"

0 8 16 32 ft.

Project Title:

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Issue Note: PERMIT RESUBMITTAL 03/07/25

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Scale:	3/4" = 1'-0"

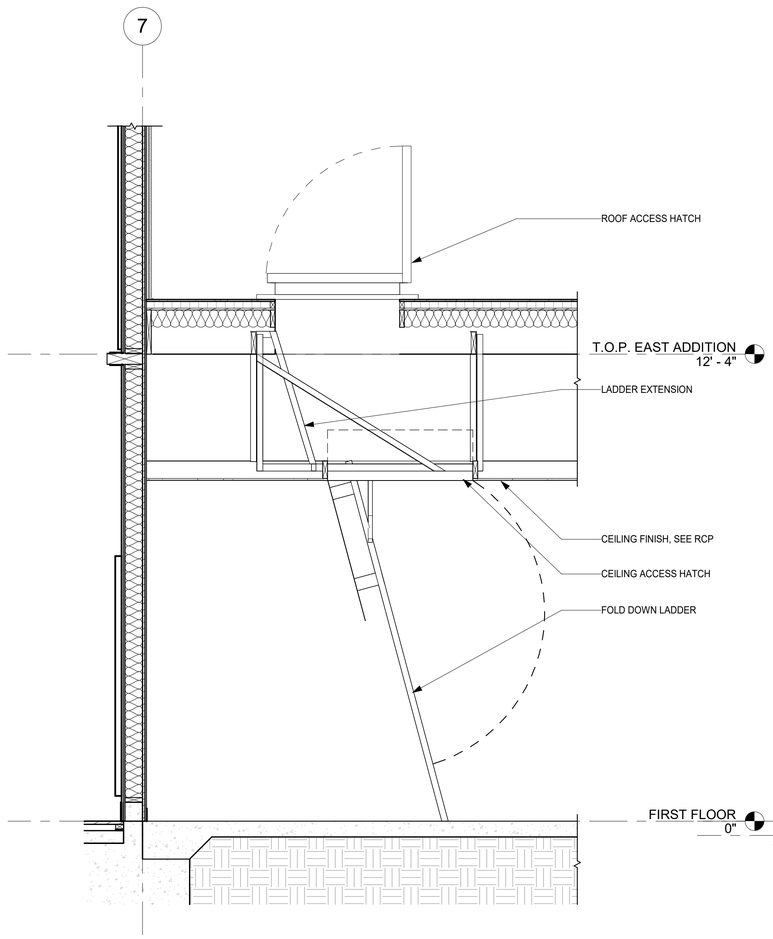
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WALL SECTIONS

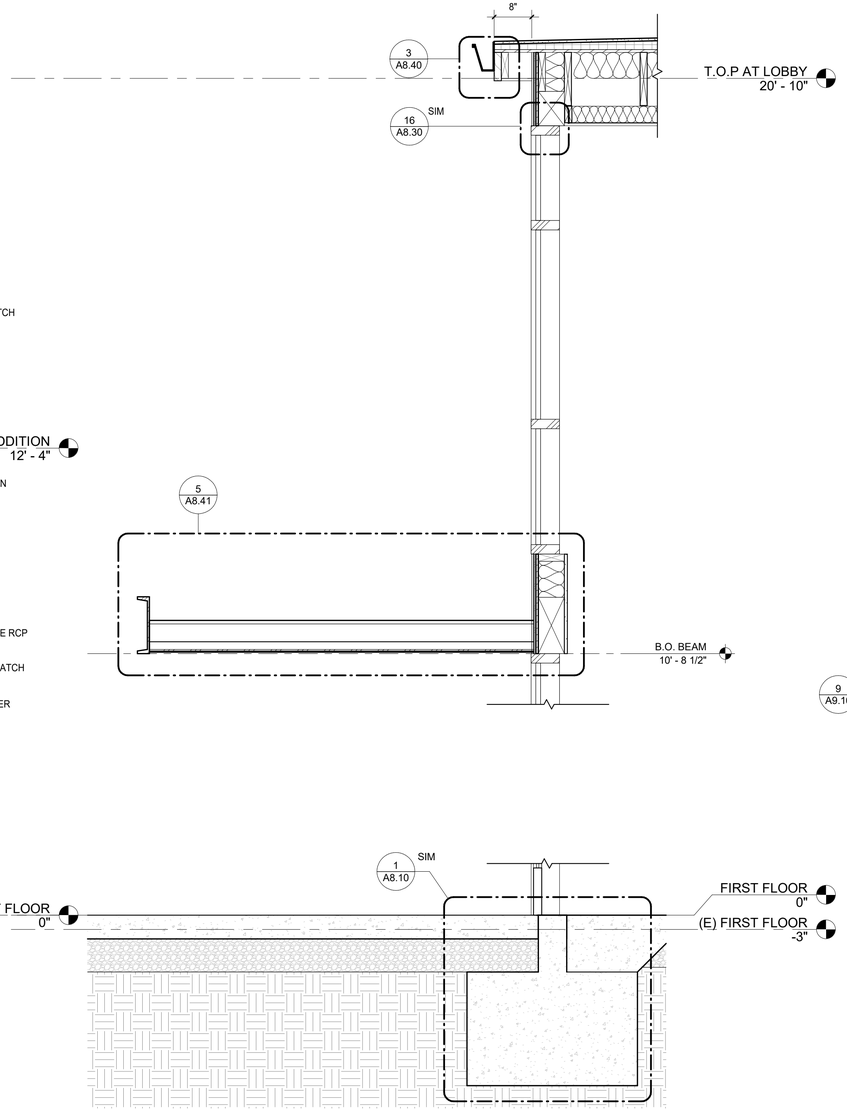
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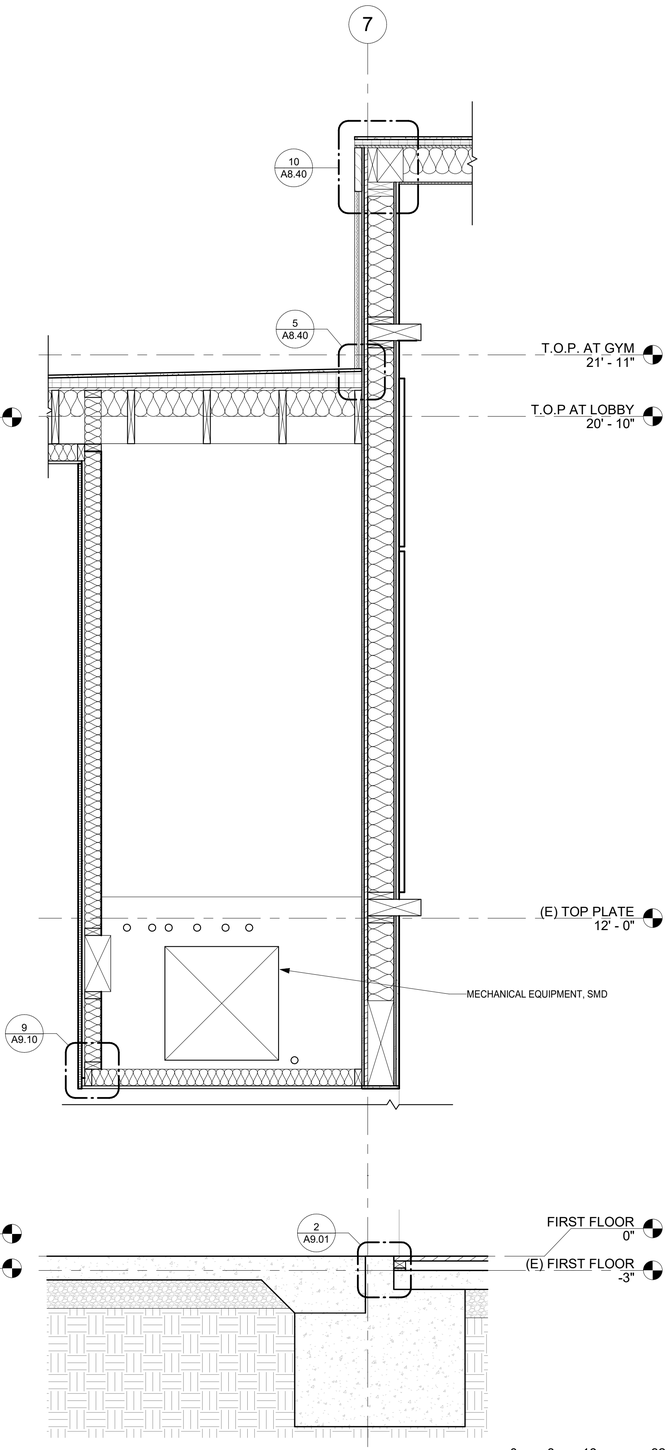
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3 A4.04 ROOF ACCESS LADDER
1/2" = 1'-0"



2 A4.04 WALL SECTION - ENTRY STOREFRONT & CANOPY
3/4" = 1'-0"



1 A4.04 WALL SECTION - GYM EAST WALL
3/4" = 1'-0"

0 8 16 32 ft.

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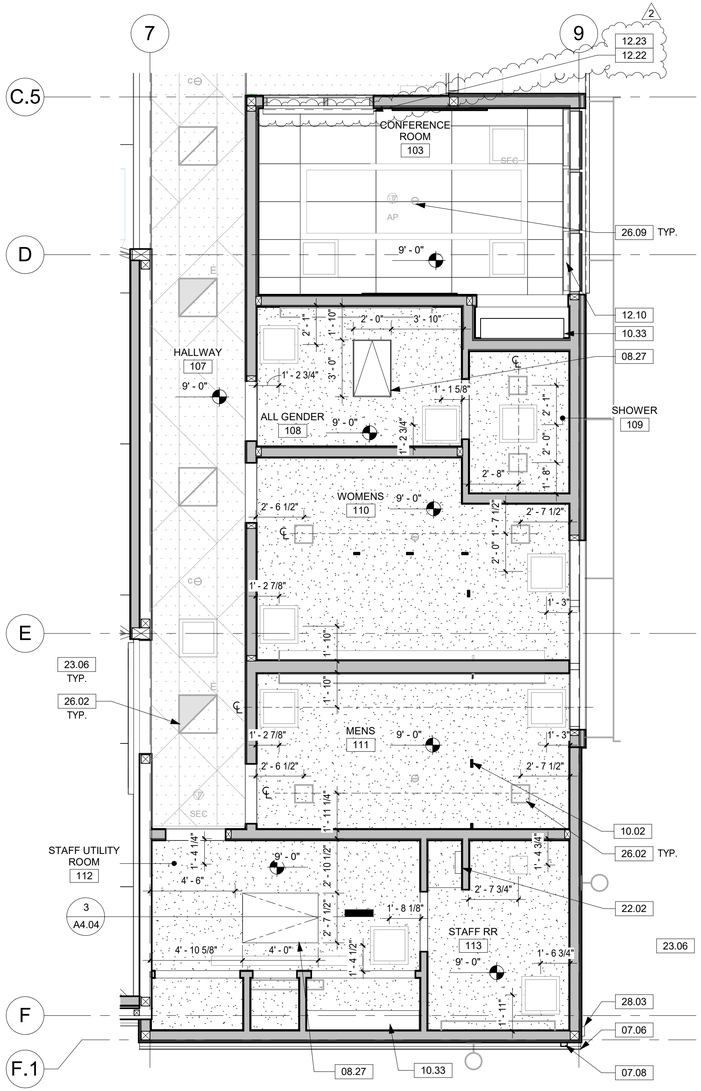
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Scale:	As indicated

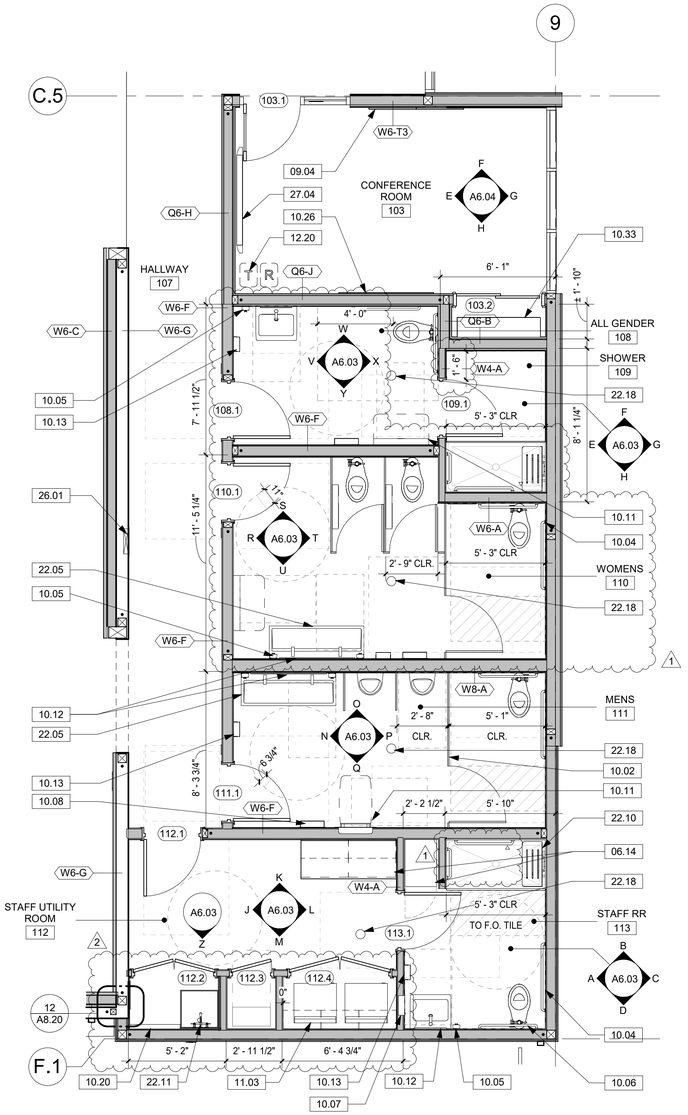
Sheet Title: ENLARGED SECTIONS

Sheet No.: A4.04

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2 A5.01 RESTROOMS - ENLARGED RCP
1/4" = 1'-0"

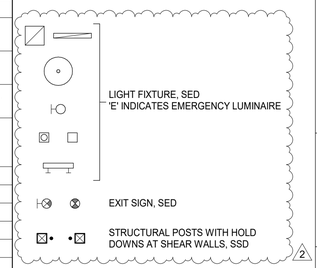


1 A5.01 RESTROOMS - ENLARGED FLOOR PLAN
1/4" = 1'-0"

KEYNOTE LEGEND	
Key Value	**Keynote Text**
06.14	BUILT IN WOOD CASEWORK
07.06	4 IN. GSM GUTTER, PTD
07.08	4 IN. GSM DOWNSPOUT, PTD
08.27	CEILING ACCESS PANEL
09.04	ACOUSTIC WALL PANELS
10.02	FLOOR AND CEILING MOUNTED TOILET PARTITION
10.04	COMBINATION TOILET TISSUE DISPENSER, SEAT COVER AND NAPKIN DISPOSAL, RECESS MOUNT
10.05	LIQUID SOAP DISPENSER
10.06	GRAB BAR
10.07	COMBINATION PAPER TOWEL / WASTE RECEPTACLE
10.08	WASTE RECEPTACLE
10.11	BABY CHANGING TABLE
10.12	MIRROR
10.13	HAND DRYER
10.20	MOP & BROOM HOLDER
10.26	WALL MOUNTED MARKERBOARD
10.33	WALL-MOUNTED STANDARDS AND SHELVING
11.03	RESIDENTIAL WASHER & DRYER
12.10	MANUAL ROLLER SHADE, SEE WDW SCHEDULE
12.20	WASTE / RECYCLING RECEPTACLE, OFOI
12.22	ADD ALT 5: MANUAL ROLLER SHADE, SEE STOREFRONT SCHEDULE
12.23	ADD ALT 6: ELECTRIC ROLLER SHADE, SEE STOREFRONT SCHEDULE
22.02	WATER HEATER, SPD
22.05	LAVATORY, SPD
22.10	SHOWER, SPD
22.11	MOP SINK, SPD
22.18	FLOOR DRAIN, SPD
23.06	RETURN/ SUPPLY AIR GRILLE, SMD
26.01	ELECTRICAL PANEL, SED
26.02	LIGHT FIXTURE, SED
26.09	SENSORS, SED
27.04	FLAT SCREEN DISPLAY, OFCI
28.03	ADD ALT 4: SECURITY CAMERA, SEE SECURITY DWGS

LEGEND

- (E) STUD WALL WITH (N) FINISH
- (N) WALL
- GYPSUM BOARD CEILING
- ACT-3 2' X 2' ACT CEILING
- ACT-1 2' X 4' ACT CEILING
- ACT-2 2' x 8' GEOMETRIC ACT CEILING W/ INTEGRATED LIGHTING
- WD-1 GEOMETRIC WOOD PANEL CEILING
- EXPOSED STRUCTURE



SHEET NOTES

1. GRID LINES LOCATED AT FACE OF STUD, TYP UON.
2. ALL DIMENSIONS ARE TO FACE OF STUD, TYP UON.
3. DIMENSIONS NOTED AS CLEAR, MINIMUM, OR ALIGN ARE TO FACE OF FINISH, TYP UON.
4. ALL DOORS ARE LOCATED PER JAMB DETAILS ON SHEET A7.01, TYP UON.
5. PATCH ALL AREAS WHERE EXISTING CONSTRUCTION WAS REMOVED FOR INSTALLATION OF STRUCTURAL, MECHANICAL, ELECTRICAL, PLUMBING, AND FIRE PROTECTION SYSTEMS.
6. PROVIDE BLOCKING AT WALLS & CEILINGS FOR SURFACE MOUNTED EQUIPMENT, TYP.
7. SEE SHEETS G1.01 & G1.02 FOR TYPICAL ACCESSIBILITY REQUIREMENTS
8. SEE G2 AND G3 SERIES FOR SIGNAGE REQUIREMENTS INCLUDING SIGNAGE PLAN AND DETAILS.
9. SEE A9 SERIES SHEETS FOR STANDARD INTERIOR AND BASE DETAILS.
10. SEE A8.01 FOR INTERIOR PARTITION TYPES.
11. SEE WINDOW SCHEDULE FOR LOCATIONS OF CURTAINS AND WINDOW COVERINGS.

N

0 2 4 8 ft.

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No. C-32146
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STATE OF CALIFORNIA

No.	Description	Date
	PERMIT SET	12/04/24
1	PLAN CHECK #1	03/07/25
2	COORDINATION	02/28/25

Issue Note: PERMIT RESUBMITTAL 03/07/25

City Plan No.:	8286
City File No.:	402-145
Specification No.:	#25-11695-C
Project ID:	YAP
Drawn by:	HL
Checked by:	KR
Plot Date:	
Scale:	1/4" = 1'-0"

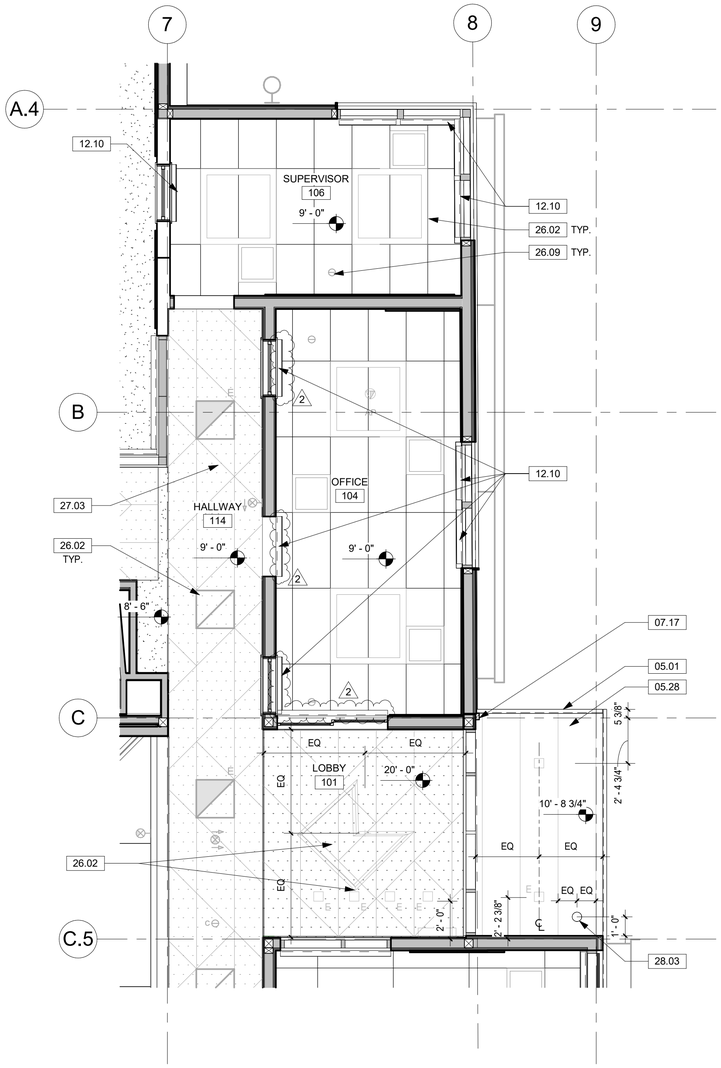
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ENLARGED FLOOR PLANS

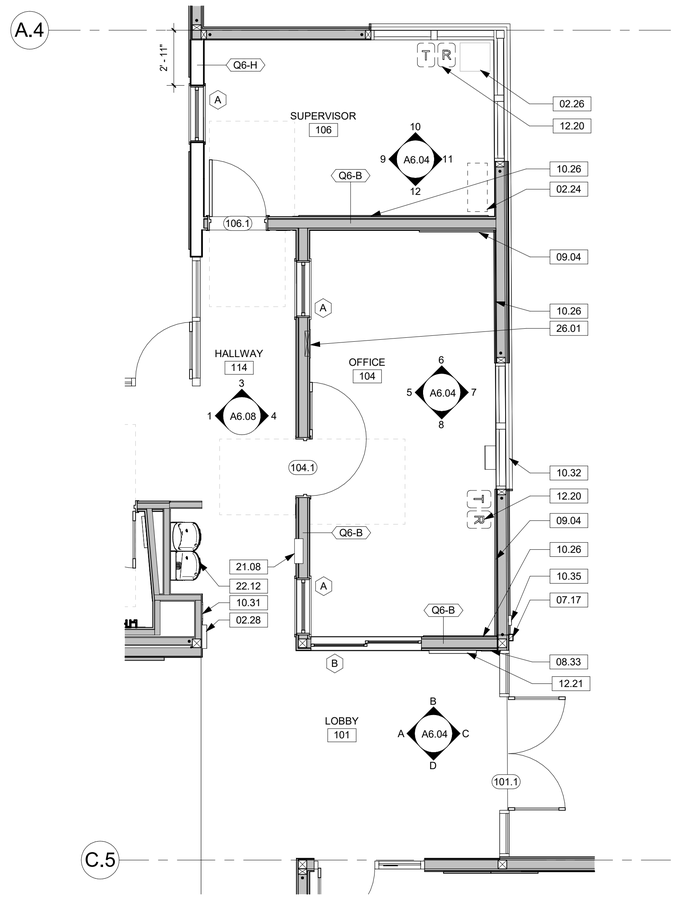
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2 A5.02 LOBBY AND OFFICES - ENLARGED RCP
1/4" = 1'-0"



1 A5.02 LOBBY AND OFFICES - ENLARGED FLOOR PLAN
1/4" = 1'-0"

KEYNOTE LEGEND	
Key Value	**Keynote Text**
02.24	(E) TURTLE TANKS RELOCATED, BY OWNER
02.26	(E) MINI FRIDGE, RELOCATED BY OWNER
02.28	(E) AUTOMATED EXTERNAL DEFIBRILLATOR TO BE RELOCATED
05.01	STRUCTURAL STEEL FRAMING, SSD
05.28	METAL SOFFIT PANEL
07.17	3 IN. GSM DOWNSPOUT, PTD
08.33	DOOR AUTO-OPERATOR
09.04	ACOUSTIC WALL PANELS
10.26	WALL MOUNTED MARKERBOARD
10.31	FIRE EXTINGUISHER CABINET
10.32	EXTERIOR MAIL SLOT WITH RECEPTACLE
10.35	FIRE DEPARTMENT KNOX BOX PER CFC §506.1
12.10	MANUAL ROLLER SHADE, SEE WDW SCHEDULE
12.20	WASTE / RECYCLING RECEPTACLE, OFOI
12.21	PAMPHLET DISPLAY UNIT
21.08	FIRE ALARM CONTROL PANEL
22.12	DRINKING FOUNTAIN, SPD
26.01	ELECTRICAL PANEL, SED
26.02	LIGHT FIXTURE, SED
26.09	SENSORS, SED
27.03	WIRELESS ACCESS POINTS, SED
28.03	ADD ALT 4: SECURITY CAMERA, SEE SECURITY DWGS

LEGEND

- (E) STUD WALL WITH (N) FINISH
- (N) WALL
- GYPSUM BOARD CEILING
- ACT-3 2' X 2' ACT CEILING
- ACT-1 2' X 4' ACT CEILING
- ACT-2 2' x 8' GEOMETRIC ACT CEILING W/ INTEGRATED LIGHTING
- WD-1 GEOMETRIC WOOD PANEL CEILING
- EXPOSED STRUCTURE
- LIGHT FIXTURE, SED 'E' INDICATES EMERGENCY LUMINAIRE
- EXIT SIGN, SED
- STRUCTURAL POSTS WITH HOLD DOWNS AT SHEAR WALLS, SSD

SHEET NOTES

1. GRID LINES LOCATED AT FACE OF STUD, TYP UON.
2. ALL DIMENSIONS ARE TO FACE OF STUD, TYP UON.
3. DIMENSIONS NOTED AS CLEAR, MINIMUM, OR ALIGN ARE TO FACE OF FINISH, TYP UON.
4. ALL DOORS ARE LOCATED PER JAMB DETAILS ON SHEET A7.01, TYP UON.
5. PATCH ALL AREAS WHERE EXISTING CONSTRUCTION WAS REMOVED FOR INSTALLATION OF STRUCTURAL, MECHANICAL, ELECTRICAL, PLUMBING, AND FIRE PROTECTION SYSTEMS.
6. PROVIDE BLOCKING AT WALLS & CEILINGS FOR SURFACE MOUNTED EQUIPMENT, TYP.
7. SEE SHEETS G1.01 & G1.02 FOR TYPICAL ACCESSIBILITY REQUIREMENTS
8. SEE G2 AND G3 SERIES FOR SIGNAGE REQUIREMENTS INCLUDING SIGNAGE PLAN AND DETAILS.
9. SEE A9 SERIES SHEETS FOR STANDARD INTERIOR AND BASE DETAILS.
10. SEE A8.01 FOR INTERIOR PARTITION TYPES.
11. SEE WINDOW SCHEDULE FOR LOCATIONS OF CURTAINS AND WINDOW COVERINGS.

N

0 2 4 8 ft.

Project Title:

CITY OF BERKELEY
PARKS, RECREATION & WATERFRONT DEPARTMENT
MLK JR. YOUTH SERVICES CENTER / YAP SEISMIC RETROFIT AND RENOVATION
1730 Oregon Street, Berkeley, CA 94703
APN#: 053-1676-001-02

Design Firm:
SIEGEL & STRAIN Architects
6201 Doyle Street, Suite B
Emeryville, CA 94608
TEL 510 / 547-8092
info@siegelstrain.com

Consultant:

Stamp:

LICENSED ARCHITECT
KAREN RICHARDS
No. C-32146
Exp: 08-31-25
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No.	Description	Date
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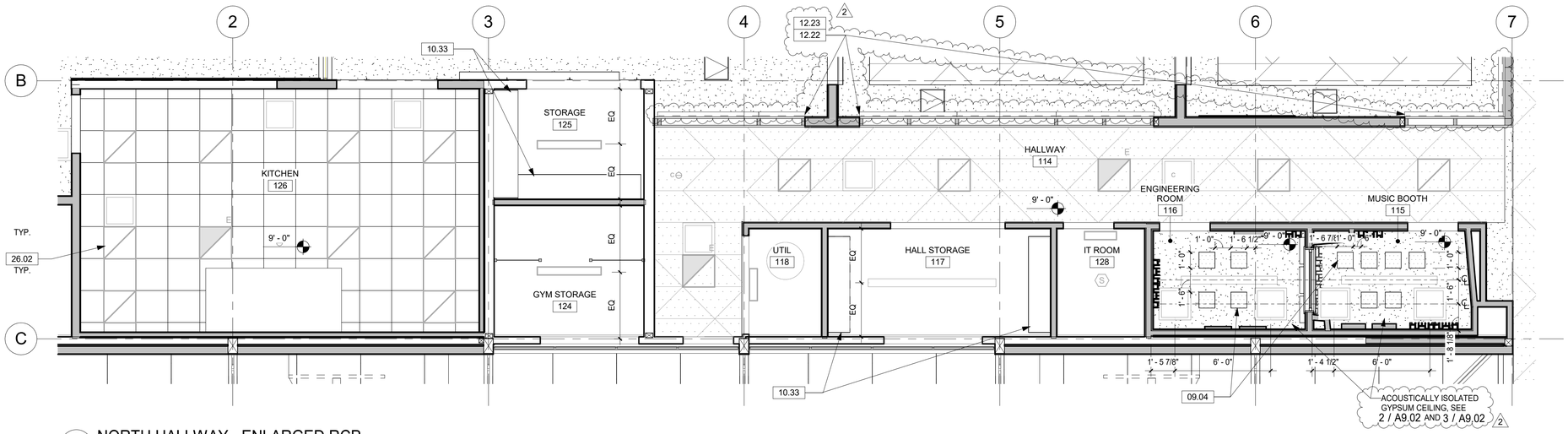
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Specification No.:	#25-11695-C
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Sheet Title: ENLARGED FLOOR PLANS

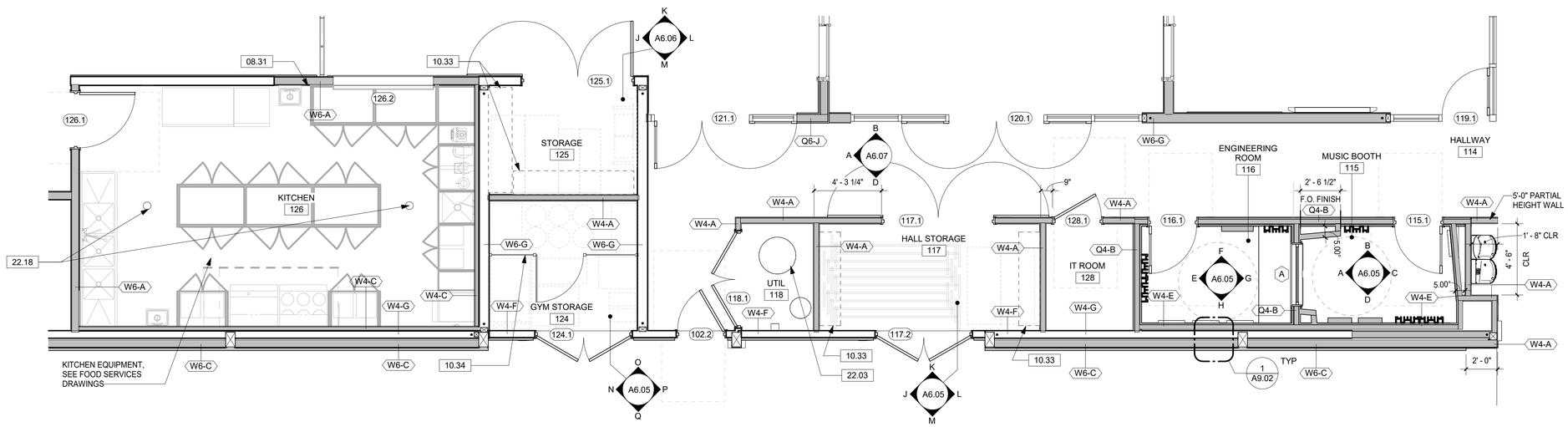
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2 A5.03 NORTH HALLWAY - ENLARGED RCP

1/4" = 1'-0"

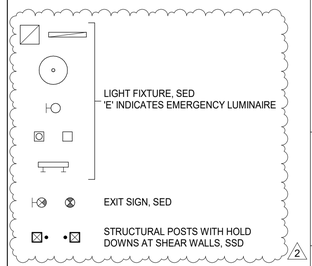


1 A5.03 NORTH HALLWAY - ENLARGED FLOOR PLAN

1/4" = 1'-0"

LEGEND

- (E) STUD WALL WITH (N) FINISH
- (N) WALL
- GYPSUM BOARD CEILING
- ACT-3 2' X 2' ACT CEILING
- ACT-1 2' X 4' ACT CEILING
- ACT-2 2' x 6' GEOMETRIC ACT CEILING W/ INTEGRATED LIGHTING
- WD-1 GEOMETRIC WOOD PANEL CEILING
- EXPOSED STRUCTURE



KEYNOTE LEGEND

Key Value	Keynote Text
08.31	TRAP PRIMER ACCESS PANEL
09.04	ACOUSTIC WALL PANELS
10.33	WALL-MOUNTED STANDARDS AND SHELVING
10.34	WIRE MESH PARTITIONS
12.22	ADD ALT 5: MANUAL ROLLER SHADE, SEE STOREFRONT SCHEDULE
12.23	ADD ALT 6: ELECTRIC ROLLER SHADE, SEE STOREFRONT SCHEDULE
22.03	HEAT PUMP WATER HEATER, SPD
22.18	FLOOR DRAIN, SPD
26.02	LIGHT FIXTURE, SED

SHEET NOTES

1. GRID LINES LOCATED AT FACE OF STUD, TYP UON.
2. ALL DIMENSIONS ARE TO FACE OF STUD, TYP UON.
3. DIMENSIONS NOTED AS CLEAR, MINIMUM, OR ALIGN ARE TO FACE OF FINISH, TYP UON.
4. ALL DOORS ARE LOCATED PER JAMB DETAILS ON SHEET A7.01, TYP UON.
5. PATCH ALL AREAS WHERE EXISTING CONSTRUCTION WAS REMOVED FOR INSTALLATION OF STRUCTURAL, MECHANICAL, ELECTRICAL, PLUMBING, AND FIRE PROTECTION SYSTEMS.
6. PROVIDE BLOCKING AT WALLS & CEILINGS FOR SURFACE MOUNTED EQUIPMENT, TYP.
7. SEE SHEETS G1.01 & G1.02 FOR TYPICAL ACCESSIBILITY REQUIREMENTS
8. SEE G2 AND G3 SERIES FOR SIGNAGE REQUIREMENTS INCLUDING SIGNAGE PLAN AND DETAILS.
9. SEE A9 SERIES SHEETS FOR STANDARD INTERIOR AND BASE DETAILS.
10. SEE A8.01 FOR INTERIOR PARTITION TYPES.
11. SEE WINDOW SCHEDULE FOR LOCATIONS OF CURTAINS AND WINDOW COVERINGS.

N

0 2 4 8 ft.

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No. C-32146
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STATE OF CALIFORNIA

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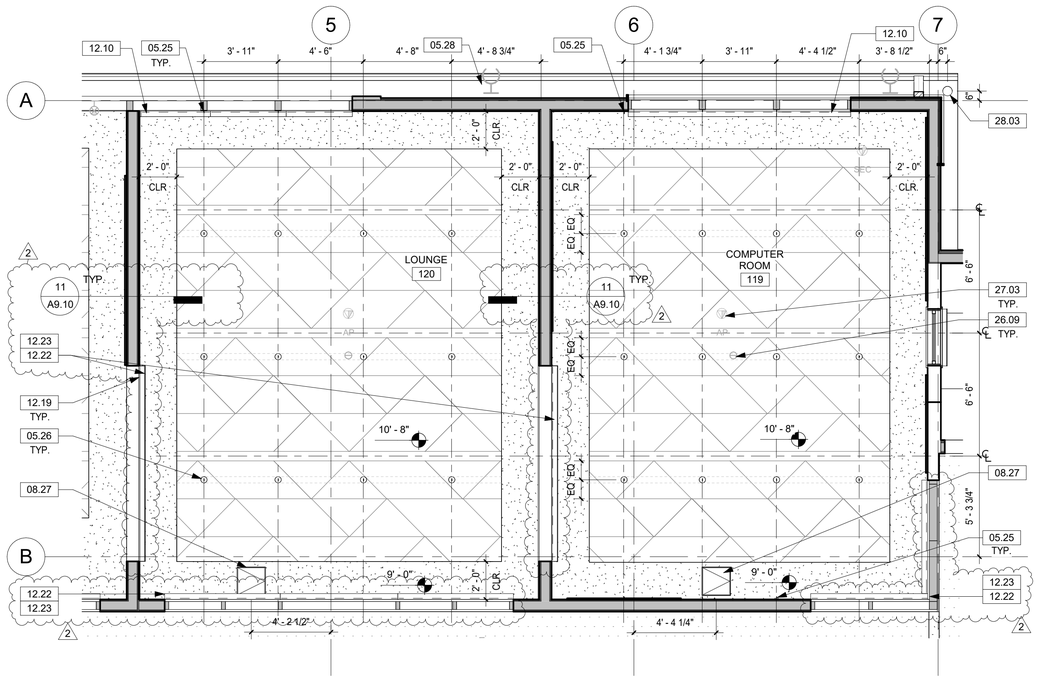
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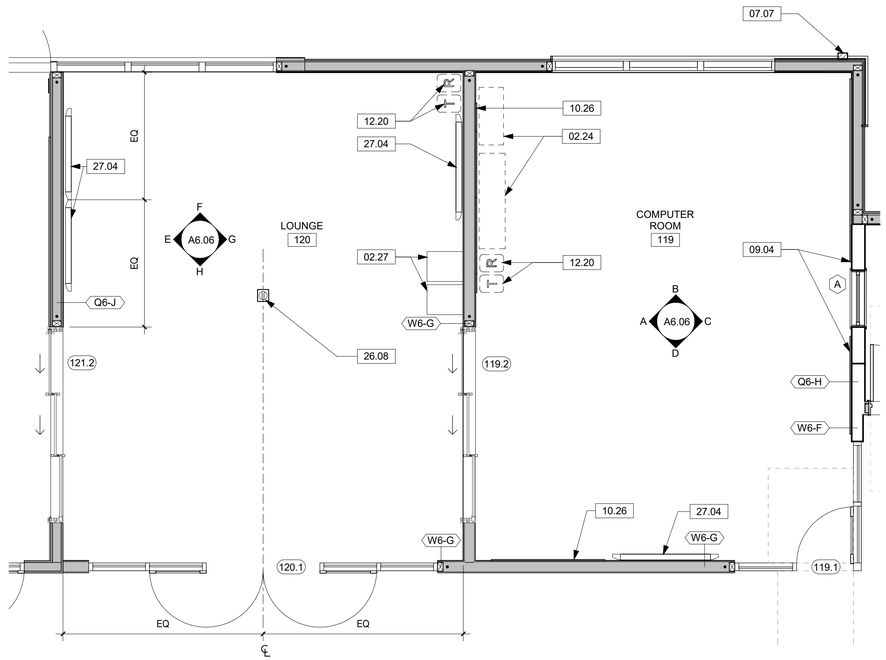
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2 A5.04 LOUNGE & COMPUTER ROOM - ENLARGED RCP

1/4" = 1'-0"



1 A5.04 LOUNGE & COMPUTER ROOM - ENLARGED FLOOR PLAN

1/4" = 1'-0"

KEYNOTE LEGEND

Key Value	Keynote Text
02.24	(E) TURTLE TANKS RELOCATED, BY OWNER
02.27	(E) ARCADE UNITS, RELOCATED BY OWNER
05.25	WIRE CABLE WALL ANCHOR
05.26	WIRE CABLE CEILING ANCHOR, RATED 200 LB, MOUNTED TO UNISTRUT IN ROOF FRAMING ABOVE, SEE 10/A9.10.
05.28	METAL SOFFIT PANEL
07.07	6 IN. SCH 40 COLLECTOR HEAD AND DOWNSPOUT, SPD
08.27	CEILING ACCESS PANEL
09.04	ACOUSTIC WALL PANELS
10.26	WALL MOUNTED MARKERBOARD
12.10	MANUAL ROLLER SHADE, SEE WDW SCHEDULE
12.19	PICTURE RAIL
12.20	WASTE / RECYCLING RECEPTACLE, OFOI
12.22	ADD ALT 5: MANUAL ROLLER SHADE, SEE STOREFRONT SCHEDULE
12.23	ADD ALT 6: ELECTRIC ROLLER SHADE, SEE STOREFRONT SCHEDULE
26.08	RECESSED FLOOR BOX W/ POWER & DATA, SED
26.09	SENSORS, SED
27.03	WIRELESS ACCESS POINTS, SED
27.04	FLAT SCREEN DISPLAY, OFCI
28.03	ADD ALT 4: SECURITY CAMERA, SEE SECURITY DWGS

LEGEND

- (E) STUD WALL WITH (N) FINISH
- (N) WALL
- GYPSUM BOARD CEILING
- ACT-3 2' X 2' ACT CEILING
- ACT-1 2' X 4' ACT CEILING
- ACT-2 2' x 6' GEOMETRIC ACT CEILING W/ INTEGRATED LIGHTING
- WD-1 GEOMETRIC WOOD PANEL CEILING
- EXPOSED STRUCTURE
- LIGHT FIXTURE, SED 'E' INDICATES EMERGENCY LUMINAIRE
- EXIT SIGN, SED
- STRUCTURAL POSTS WITH HOLD DOWNS AT SHEAR WALLS, SSD

2

SHEET NOTES

1. GRID LINES LOCATED AT FACE OF STUD, TYP UON.
2. ALL DIMENSIONS ARE TO FACE OF STUD, TYP UON.
3. DIMENSIONS NOTED AS CLEAR, MINIMUM, OR ALIGN ARE TO FACE OF FINISH, TYP UON.
4. ALL DOORS ARE LOCATED PER JAMB DETAILS ON SHEET A7.01, TYP UON.
5. PATCH ALL AREAS WHERE EXISTING CONSTRUCTION WAS REMOVED FOR INSTALLATION OF STRUCTURAL, MECHANICAL, ELECTRICAL, PLUMBING, AND FIRE PROTECTION SYSTEMS.
6. PROVIDE BLOCKING AT WALLS & CEILINGS FOR SURFACE MOUNTED EQUIPMENT, TYP.
7. SEE SHEETS G1.01 & G1.02 FOR TYPICAL ACCESSIBILITY REQUIREMENTS
8. SEE G2 AND G3 SERIES FOR SIGNAGE REQUIREMENTS INCLUDING SIGNAGE PLAN AND DETAILS.
9. SEE A9 SERIES SHEETS FOR STANDARD INTERIOR AND BASE DETAILS.
10. SEE A8.01 FOR INTERIOR PARTITION TYPES.
11. SEE WINDOW SCHEDULE FOR LOCATIONS OF CURTAINS AND WINDOW COVERINGS.

N

0 2 4 8 ft.

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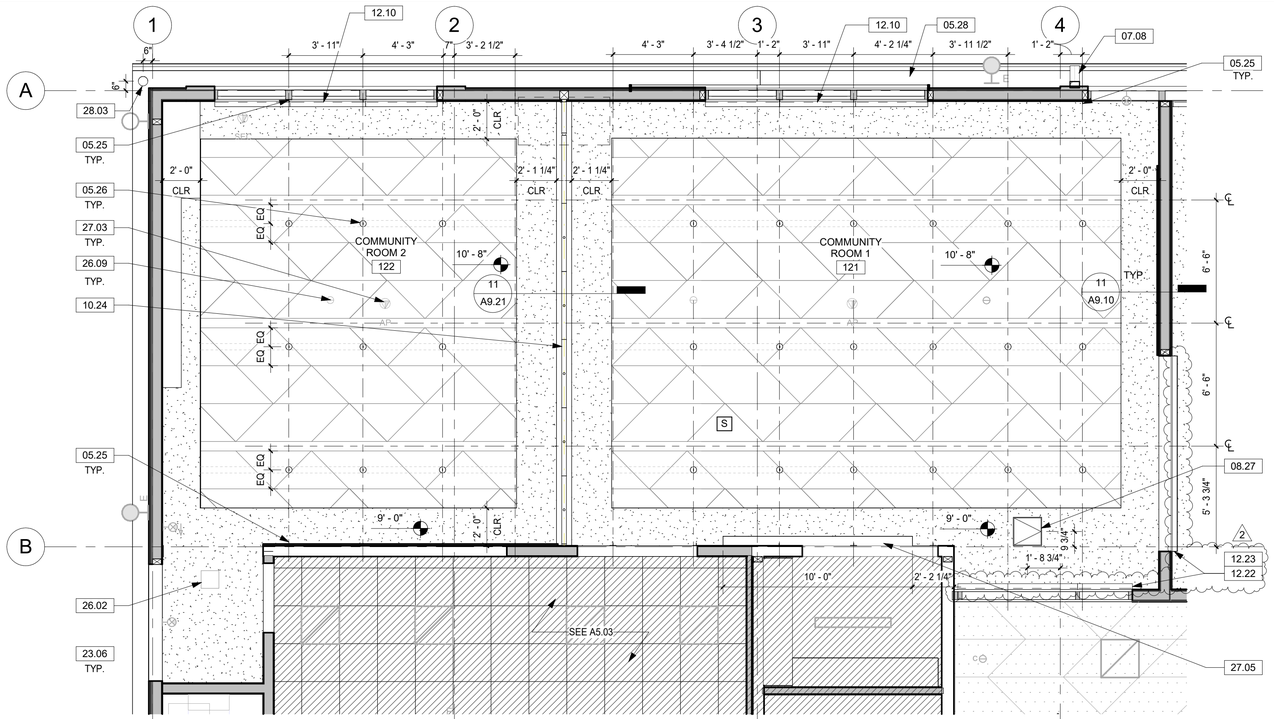
Issue Note: PERMIT RESUBMITTAL 03/07/25

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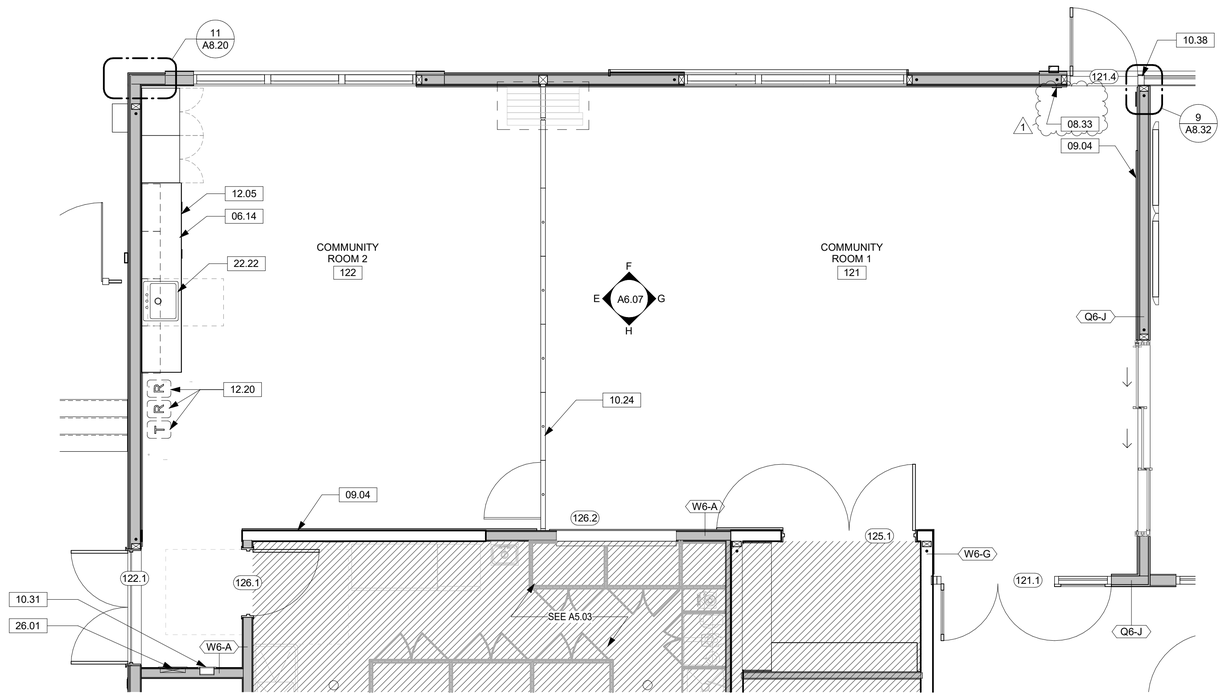
Sheet Title: ENLARGED FLOOR PLANS

Sheet No.: A5.04

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2 A5.05 COMMUNITY ROOMS - ENLARGED RCP
1/4" = 1'-0"



1 A5.05 COMMUNITY ROOMS - ENLARGED FLOOR PLAN
1/4" = 1'-0"

KEYNOTE LEGEND

Key Value	Keynote Text
05.25	WIRE CABLE WALL ANCHOR
05.26	WIRE CABLE CEILING ANCHOR, RATED 200 LB, MOUNTED TO UNISTRUT IN ROOF FRAMING ABOVE, SEE 10/A9.10.
05.28	METAL SOFFIT PANEL
06.14	BUILT IN WOOD CASEWORK
07.08	4 IN. GSM DOWNSPOUT, PTD
08.27	CEILING ACCESS PANEL
08.33	DOOR AUTO-OPERATOR
09.04	ACOUSTIC WALL PANELS
10.24	OPERABLE PARTITION WITH PASS THROUGH DOOR, RATED STC 50
10.31	FIRE EXTINGUISHER CABINET
10.38	MULLION TRIM CAP
12.05	SOLID SURFACE COUNTERTOP
12.10	MANUAL ROLLER SHADE, SEE WDW SCHEDULE
12.20	WASTE / RECYCLING RECEPTACLE, OFOI
12.22	ADD ALT 5: MANUAL ROLLER SHADE, SEE STOREFRONT SCHEDULE
12.23	ADD ALT 6: ELECTRIC ROLLER SHADE, SEE STOREFRONT SCHEDULE
22.22	ART SINK WITH CLAY TRAP CONCEALED IN ADJACENT CASEWORK, SPD
23.06	RETURN/ SUPPLY AIR GRILLE, SMD
26.01	ELECTRICAL PANEL, SED
26.02	LIGHT FIXTURE, SED
26.09	SENSORS, SED
27.03	WIRELESS ACCESS POINTS, SED
27.05	PROJECTOR SCREEN, SED
28.03	ADD ALT 4: SECURITY CAMERA, SEE SECURITY DWGS

LEGEND

- (E) STUD WALL WITH (N) FINISH
- (N) WALL
- GYPSUM BOARD CEILING
- ACT-3 2' X 2' ACT CEILING
- ACT-1 2' X 4' ACT CEILING
- ACT-2 2' x 6' GEOMETRIC ACT CEILING W/ INTEGRATED LIGHTING
- WD-1 GEOMETRIC WOOD PANEL CEILING
- EXPOSED STRUCTURE
- LIGHT FIXTURE, SED 'E' INDICATES EMERGENCY LUMINAIRE
- EXIT SIGN, SED
- STRUCTURAL POSTS WITH HOLD DOWNS AT SHEAR WALLS, SSD

SHEET NOTES

1. GRID LINES LOCATED AT FACE OF STUD, TYP UON.
2. ALL DIMENSIONS ARE TO FACE OF STUD, TYP UON.
3. DIMENSIONS NOTED AS CLEAR, MINIMUM, OR ALIGN ARE TO FACE OF FINISH, TYP UON.
4. ALL DOORS ARE LOCATED PER JAMB DETAILS ON SHEET A7.01, TYP UON.
5. PATCH ALL AREAS WHERE EXISTING CONSTRUCTION WAS REMOVED FOR INSTALLATION OF STRUCTURAL, MECHANICAL, ELECTRICAL, PLUMBING, AND FIRE PROTECTION SYSTEMS.
6. PROVIDE BLOCKING AT WALLS & CEILINGS FOR SURFACE MOUNTED EQUIPMENT, TYP.
7. SEE SHEETS G1.01 & G1.02 FOR TYPICAL ACCESSIBILITY REQUIREMENTS
8. SEE G2 AND G3 SERIES FOR SIGNAGE REQUIREMENTS INCLUDING SIGNAGE PLAN AND DETAILS.
9. SEE A9 SERIES SHEETS FOR STANDARD INTERIOR AND BASE DETAILS.
10. SEE A8.01 FOR INTERIOR PARTITION TYPES.
11. SEE WINDOW SCHEDULE FOR LOCATIONS OF CURTAINS AND WINDOW COVERINGS.

N

0 2 4 8 ft.

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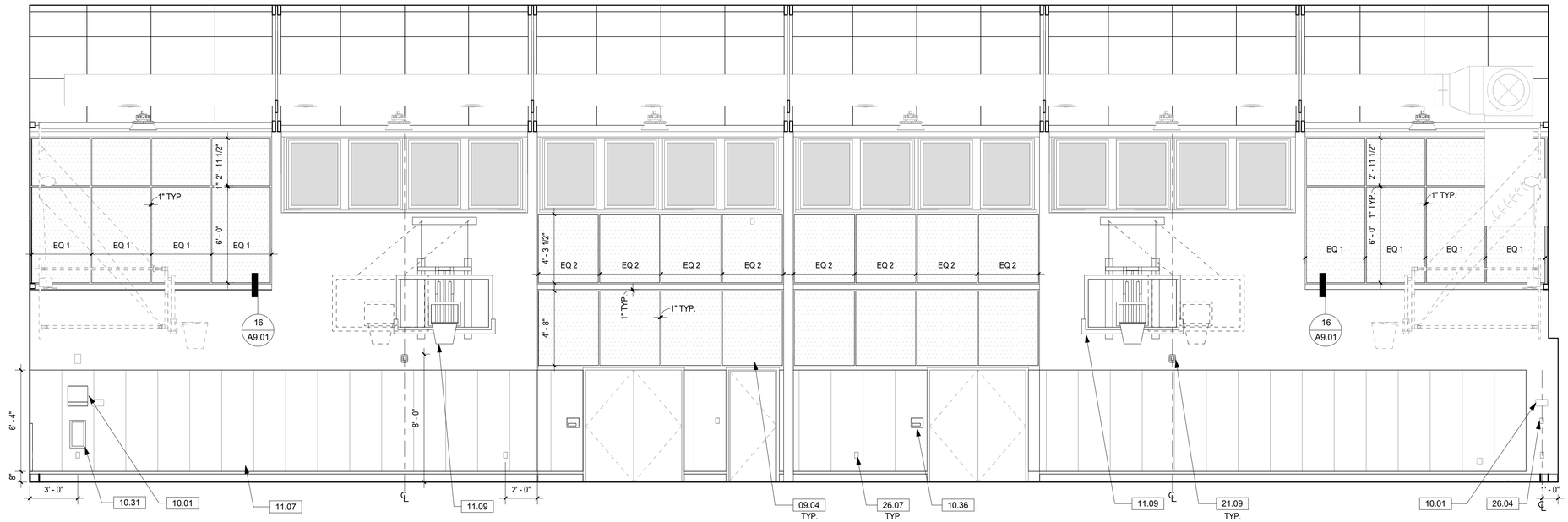
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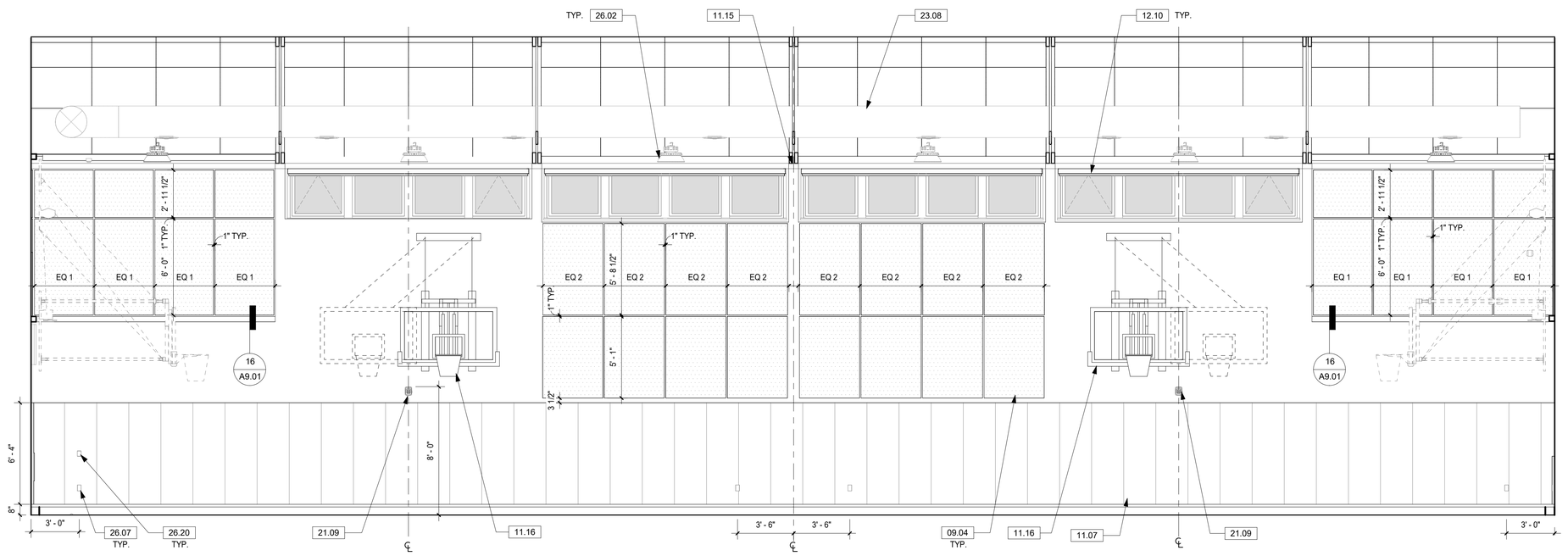
Sheet No.: A5.05

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2 A6.01 GYMNASIUM - NORTH ELEVATION

1/4" = 1'-0"



1 A6.01 GYMNASIUM - SOUTH ELEVATION

1/4" = 1'-0"

KEYNOTE LEGEND

Key Value	Keynote Text
09.04	ACOUSTIC WALL PANELS
10.01	SIGNAGE
10.31	FIRE EXTINGUISHER CABINET
10.36	ROOM SIGNAGE, SEE SIGNAGE DRAWINGS
11.07	SPORTS PADDING
11.09	WALL-MOUNTED SIDE-FOLDING BASKETBALL HOOP
11.15	GYM DIVIDER CURTAIN TRACK
11.16	ADD ALT 1: WALL-MOUNTED SIDE-FOLDING BASKETBALL HOOP
12.10	MANUAL ROLLER SHADE, SEE WDW SCHEDULE
21.09	FIRE ALARM SYSTEM HORN / STROBE, SED
23.08	DUCT, SMD
26.02	LIGHT FIXTURE, SED
26.04	LIGHT SWITCH, SED
26.07	ELECTRICAL AND/OR DATA OUTLET, SED
26.20	OPERABLE WINDOW SWITCH, SED

SHEET NOTES

1. PROVIDE BLOCKING AT WALLS & CEILINGS FOR SURFACE MOUNTED EQUIPMENT, TYP.
2. SEE SHEETS G1.01 & G1.02 FOR TYPICAL ACCESSIBILITY REQUIREMENTS
3. SEE G2 AND G3 SERIES FOR SIGNAGE REQUIREMENTS INCLUDING SIGNAGE PLAN AND DETAILS.
4. SEE A9 SERIES SHEETS FOR STANDARD INTERIOR AND BASE DETAILS.
5. SEE A8.01 FOR INTERIOR PARTITION TYPES.
6. SEE WINDOW SCHEDULE FOR LOCATIONS OF CURTAINS AND WINDOW COVERINGS.
7. ALIGN DEVICES, UON, TYP.

0 2 4 8 ft.

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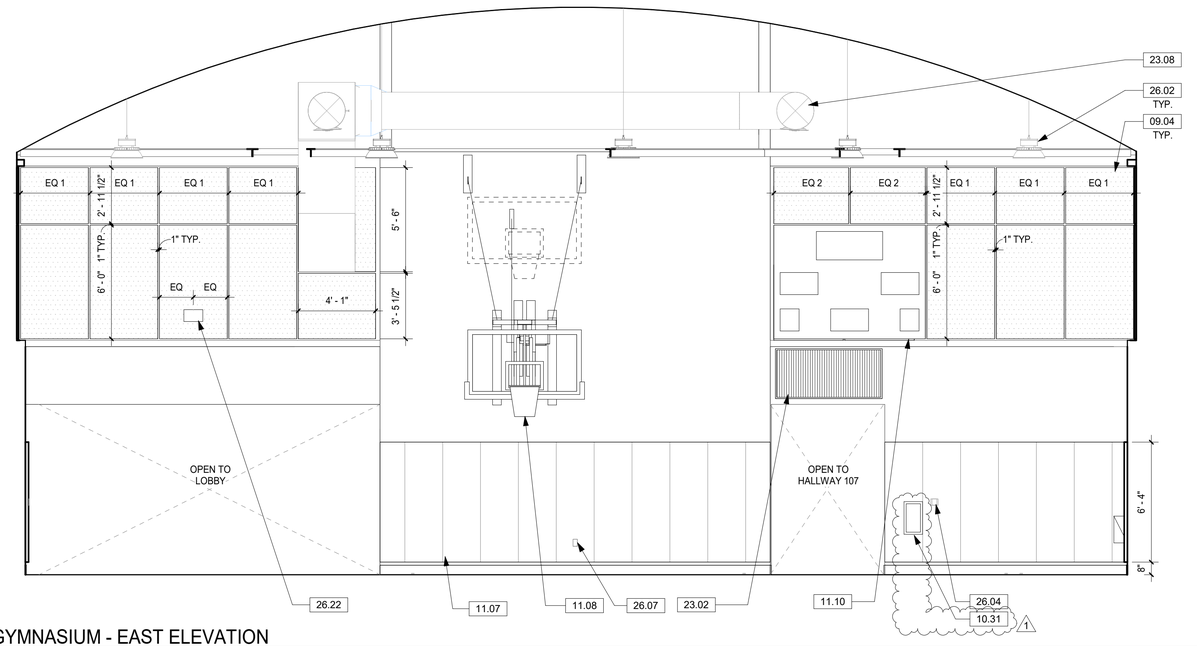
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INTERIOR ELEVATIONS

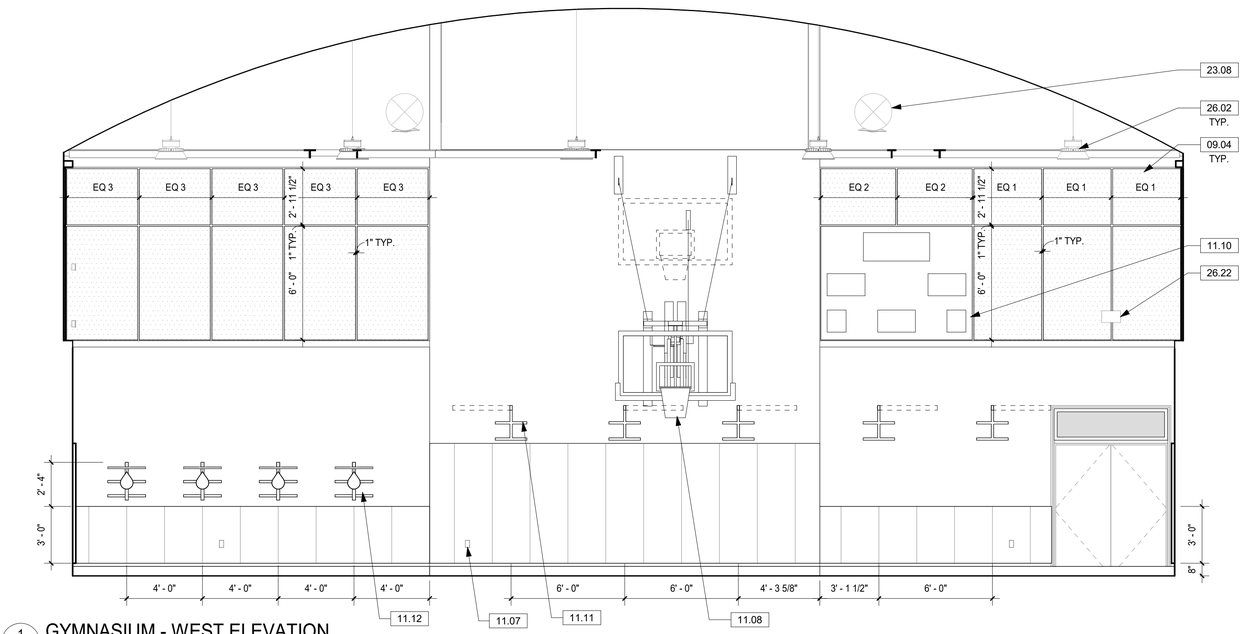
Sheet No.:

A6.01

3/8/2025 7:54:32 AM



2 A6.02 GYMNASIUM - EAST ELEVATION
1/4" = 1'-0"



1 A6.02 GYMNASIUM - WEST ELEVATION
1/4" = 1'-0"

KEYNOTE LEGEND

Key Value	Keynote Text
09.04	ACOUSTIC WALL PANELS
10.31	FIRE EXTINGUISHER CABINET
11.07	SPORTS PADDING
11.08	WALL-MOUNTED UP-FOLDING BASKETBALL HOOP
11.10	ELECTRONIC SCOREBOARD
11.11	RETRACTABLE HEAVY BAG BOXING MOUNTS
11.12	RETRACTABLE SPEED BAG BOXING MOUNTS
23.02	MECHANICAL LOUVER, SMD
23.08	DUCT, SMD
26.02	LIGHT FIXTURE, SED
26.04	LIGHT SWITCH, SED
26.07	ELECTRICAL AND/OR DATA OUTLET, SED
26.22	EXIT SIGN, SED

SHEET NOTES

1. PROVIDE BLOCKING AT WALLS & CEILINGS FOR SURFACE MOUNTED EQUIPMENT, TYP.
2. SEE SHEETS G1.01 & G1.02 FOR TYPICAL ACCESSIBILITY REQUIREMENTS
3. SEE G2 AND G3 SERIES FOR SIGNAGE REQUIREMENTS INCLUDING SIGNAGE PLAN AND DETAILS.
4. SEE A9 SERIES SHEETS FOR STANDARD INTERIOR AND BASE DETAILS.
5. SEE A8.01 FOR INTERIOR PARTITION TYPES.
6. SEE WINDOW SCHEDULE FOR LOCATIONS OF CURTAINS AND WINDOW COVERINGS.
7. ALIGN DEVICES, UON, TYP.

0 2 4 8 ft.

Project Title:

CITY OF BERKELEY
PARKS, RECREATION & WATERFRONT DEPARTMENT
MLK JR. YOUTH SERVICES CENTER / YAP
SEISMIC RETROFIT AND RENOVATION
1730 Oregon Street, Berkeley, CA 94703
APN#: 053-1676-001-02

Design Firm:
SIEGEL & STRAIN Architects
6201 Doyle Street, Suite B
Emeryville, CA 94608
TEL 510 / 547-8092
info@siegelstrain.com

Consultant:

Stamp:

LICENSED ARCHITECT
KAREN RICHARDS
No. C-32146
Exp: 08-31-25
STATE OF CALIFORNIA

No.	Description	Date
	PERMIT SET	12/04/24
1	PLAN CHECK #1	03/07/25

Issue Note: PERMIT RESUBMITTAL 03/07/25

City Plan No.:	8286
City File No.:	402-145
Specification No.:	#25-11695-C
Project ID:	YAP
Drawn by:	HL
Checked by:	KR
Plot Date:	
Scale:	1/4" = 1'-0"

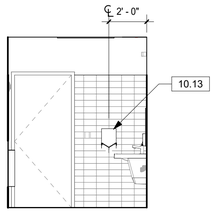
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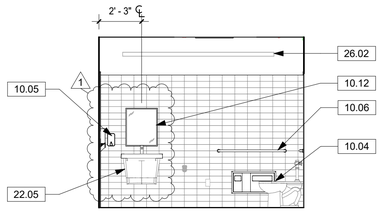
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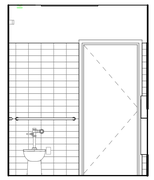
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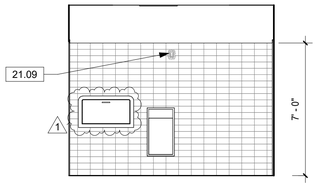
V - WEST ELEV



W - NORTH ELEV



X - EAST ELEV



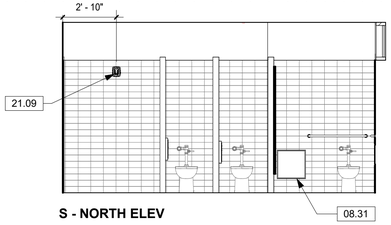
Y - SOUTH ELEV

6 A6.03 ALL-GENDER RESTROOM 108

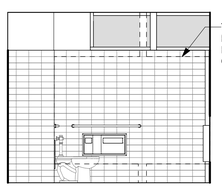
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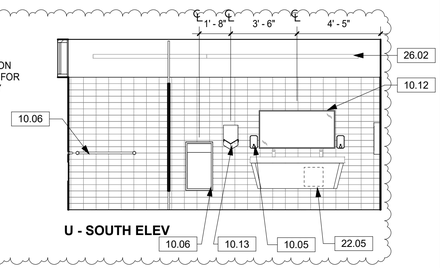
R - WEST ELEV



S - NORTH ELEV



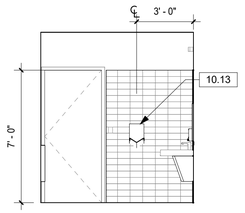
T - EAST ELEV



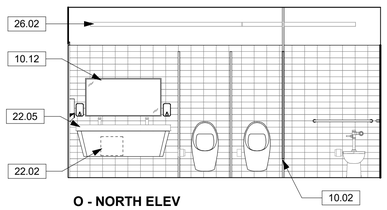
U - SOUTH ELEV

5 A6.03 WOMENS RESTROOM 110

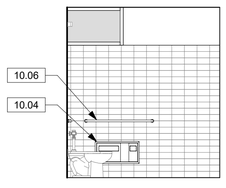
1/4" = 1'-0"



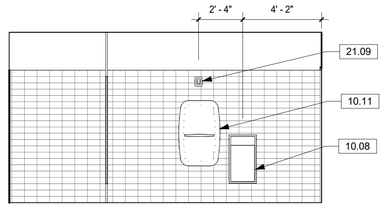
N - WEST ELEV



O - NORTH ELEV



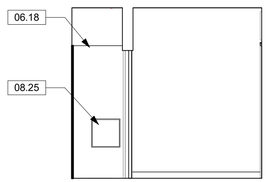
P - EAST ELEV



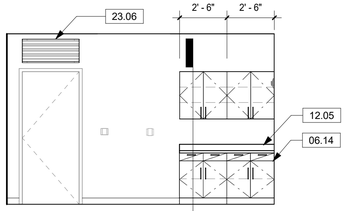
Q - SOUTH ELEV

4 A6.03 MENS RESTROOM 111

1/4" = 1'-0"

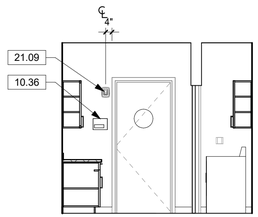


J - WEST ELEV

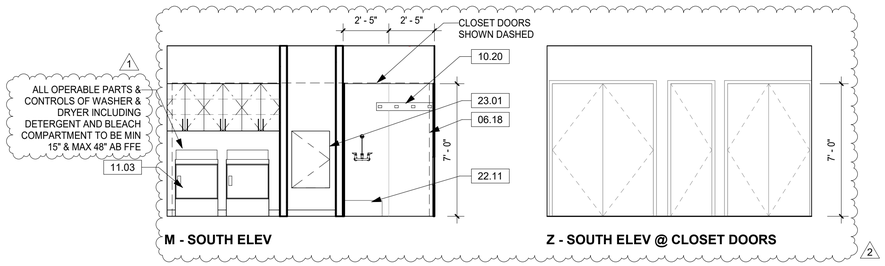


K - NORTH ELEV

1 A9.30



L - EAST ELEV

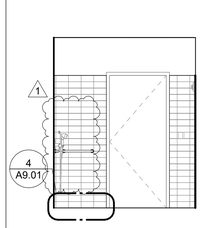


M - SOUTH ELEV

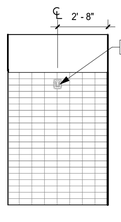
Z - SOUTH ELEV @ CLOSET DOORS

3 A6.03 STAFF UTILITY ROOM 112

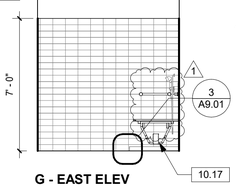
1/4" = 1'-0"



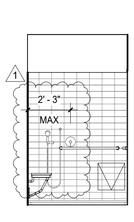
E - WEST ELEV



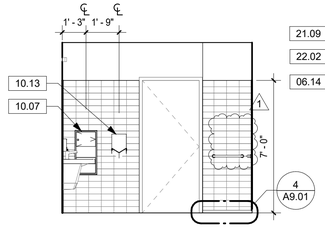
F - NORTH ELEV



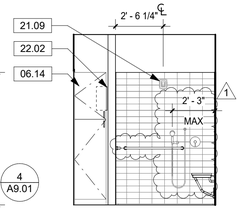
G - EAST ELEV



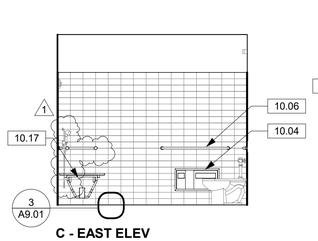
H - SOUTH ELEV



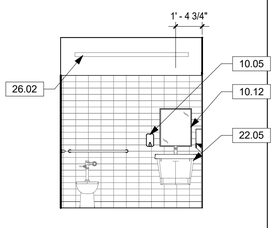
A - WEST ELEV



B - NORTH ELEV



C - EAST ELEV



D - SOUTH ELEV

2 A6.03 SHOWER 109

1/4" = 1'-0"

1 A6.03 STAFF RESTROOM 113

1/4" = 1'-0"

KEYNOTE LEGEND

Key Value	Keynote Text
06.14	BUILT IN WOOD CASEWORK
06.18	FRP PANELS
08.25	WALL CLEANOUT ACCESS PANEL
08.31	TRAP PRIMER ACCESS PANEL
10.02	FLOOR AND CEILING MOUNTED TOILET PARTITION
10.04	COMBINATION TOILET TISSUE DISPENSER, SEAT COVER AND NAPKIN DISPOSAL, RECESS MOUNT
10.05	LIQUID SOAP DISPENSER
10.06	GRAB BAR
10.07	COMBINATION PAPER TOWEL / WASTE RECEPTACLE
10.08	WASTE RECEPTACLE
10.11	BABY CHANGING TABLE
10.12	MIRROR
10.13	HAND DRYER
10.17	FOLDING SHOWER SEAT
10.20	MOP & BROOM HOLDER
10.36	ROOM SIGNAGE, SEE SIGNAGE DRAWINGS
11.03	RESIDENTIAL WASHER & DRYER
12.05	SOLID SURFACE COUNTERTOP
21.09	FIRE ALARM SYSTEM HORN / STROBE, SED
22.02	WATER HEATER, SPD
22.05	LAVATORY, SPD
22.11	MOP SINK, SPD
23.01	MECHANICAL EQUIPMENT, SMD
23.06	RETURN/ SUPPLY AIR GRILLE, SMD
26.02	LIGHT FIXTURE, SED

SHEET NOTES

1. PROVIDE BLOCKING AT WALLS & CEILINGS FOR SURFACE MOUNTED EQUIPMENT, TYP.
2. SEE SHEETS G1.01 & G1.02 FOR TYPICAL ACCESSIBILITY REQUIREMENTS
3. SEE G2 AND G3 SERIES FOR SIGNAGE REQUIREMENTS INCLUDING SIGNAGE PLAN AND DETAILS.
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6. SEE WINDOW SCHEDULE FOR LOCATIONS OF CURTAINS AND WINDOW COVERINGS.
7. ALIGN DEVICES, UON, TYP.

0 2 4 8 ft.

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Consultant:

Stamp:

LICENSED ARCHITECT
KAREN RICHARDS
No. C-32146
Exp: 08-31-25
STATE OF CALIFORNIA

No.	Description	Date
	PERMIT SET	12/04/24
1	PLAN CHECK #1	03/07/25
2	COORDINATION	2/28/25

Issue Note: PERMIT RESUBMITTAL 03/07/25

City Plan No.:	8286
City File No.:	402-145
Specification No.:	#25-11695-C
Project ID:	YAP
Drawn by:	HL
Checked by:	KR
Plot Date:	
Scale:	1/4" = 1'-0"

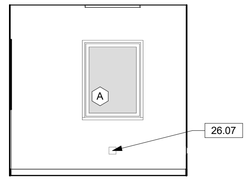
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INTERIOR ELEVATIONS

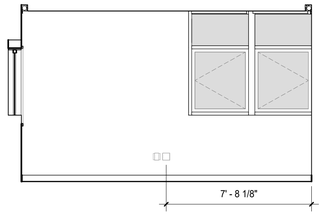
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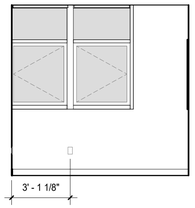
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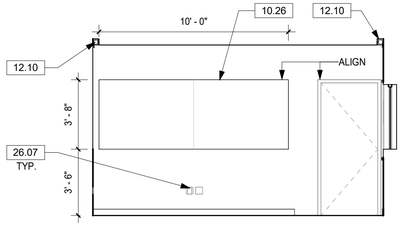
9 - WEST ELEV



10 - NORTH ELEV



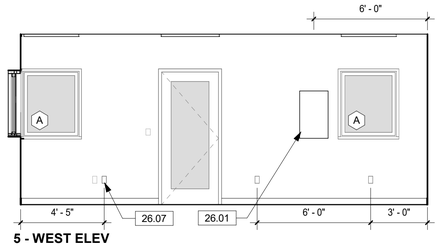
11 - EAST ELEV



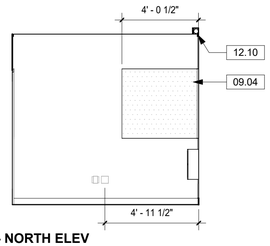
12 - SOUTH ELEV

4 A6.04 SUPERVISOR 106

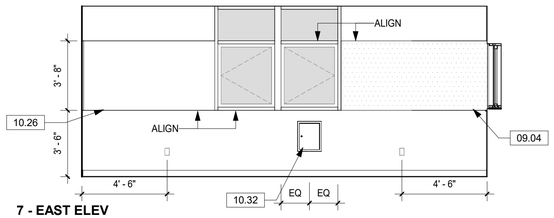
1/4" = 1'-0"



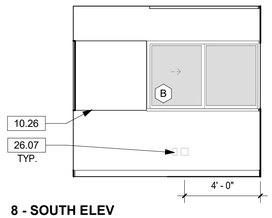
5 - WEST ELEV



6 - NORTH ELEV



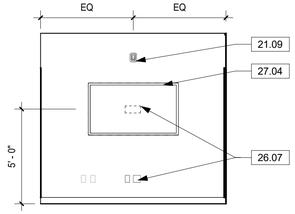
7 - EAST ELEV



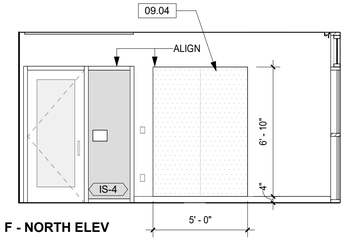
8 - SOUTH ELEV

3 A6.04 OFFICE 104

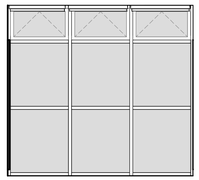
1/4" = 1'-0"



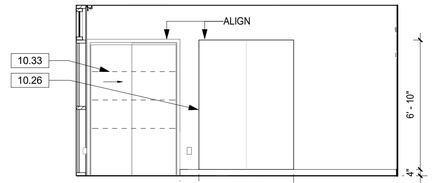
E - WEST ELEV



F - NORTH ELEV



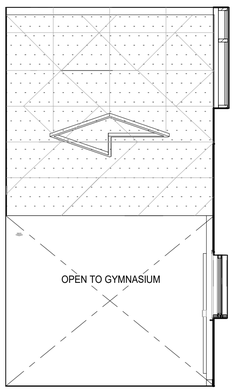
G - EAST ELEV



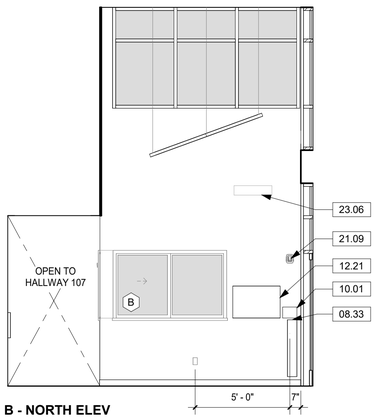
H - SOUTH ELEV

2 A6.04 CONFERENCE ROOM 103

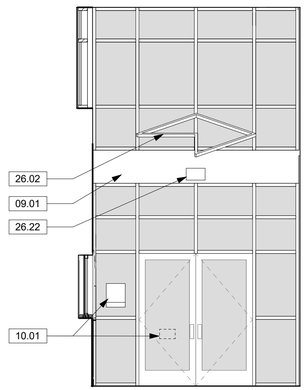
1/4" = 1'-0"



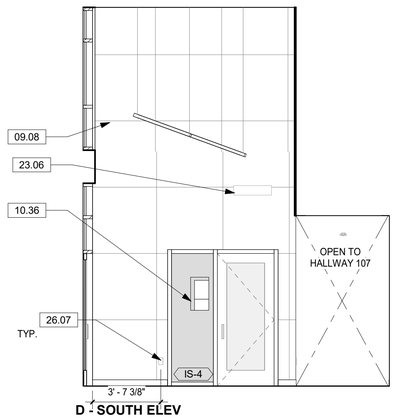
A - WEST ELEV



B - NORTH ELEV



C - EAST ELEV



D - SOUTH ELEV

1 A6.04 LOBBY 101

1/4" = 1'-0"

KEYNOTE LEGEND

Key Value	Keynote Text
08.33	DOOR AUTO-OPERATOR
09.01	GYPSUM BOARD, PTD
09.04	ACOUSTIC WALL PANELS
09.08	MURAL TILE FINISH - MATERIAL AND INSTALLATION OF TILES BY OTHERS. GC TO PREP SUBSTRATE AND EDGE TRIM
10.01	SIGNAGE
10.26	WALL MOUNTED MARKERBOARD
10.32	EXTERIOR MAIL SLOT WITH RECEPTACLE
10.33	WALL-MOUNTED STANDARDS AND SHELVING
10.36	ROOM SIGNAGE, SEE SIGNAGE DRAWINGS
12.10	MANUAL ROLLER SHADE, SEE WDW SCHEDULE
12.21	PAMPHLET DISPLAY UNIT
21.09	FIRE ALARM SYSTEM HORN / STROBE, SED
23.06	RETURN/ SUPPLY AIR GRILLE, SMD
26.01	ELECTRICAL PANEL, SED
26.02	LIGHT FIXTURE, SED
26.07	ELECTRICAL AND/OR DATA OUTLET, SED
26.22	EXIT SIGN, SED
27.04	FLAT SCREEN DISPLAY, OFCI

SHEET NOTES

1. PROVIDE BLOCKING AT WALLS & CEILINGS FOR SURFACE MOUNTED EQUIPMENT, TYP.
2. SEE SHEETS G1.01 & G1.02 FOR TYPICAL ACCESSIBILITY REQUIREMENTS
3. SEE G2 AND G3 SERIES FOR SIGNAGE REQUIREMENTS INCLUDING SIGNAGE PLAN AND DETAILS.
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Emeryville, CA 94608
TEL 510 / 547-8092
info@siegelstrain.com

Consultant:

Stamp:

LICENSED ARCHITECT
KAREN RICHARDS
No. C-32146
Exp: 08-31-25
STATE OF CALIFORNIA

No.	Description	Date
	PERMIT SET	12/04/24

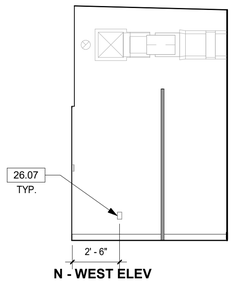
Issue Note: PERMIT RESUBMITTAL 03/07/25

City Plan No.:	8286
City File No.:	402-145
Specification No.:	#25-11695-C
Project ID:	YAP
Drawn by:	HL
Checked by:	KR
Plot Date:	
Scale:	1/4" = 1'-0"

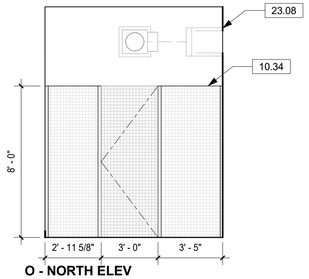
Sheet Title: INTERIOR ELEVATIONS

Sheet No.: A6.04

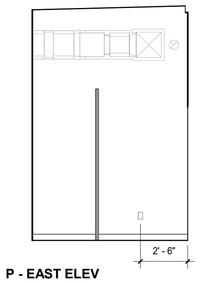
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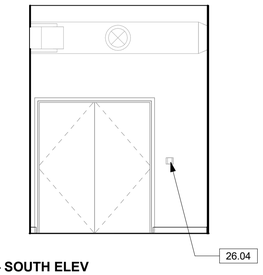
N - WEST ELEV



O - NORTH ELEV



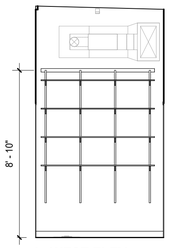
P - EAST ELEV



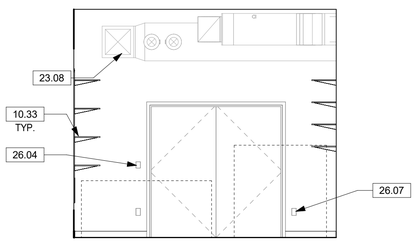
Q - SOUTH ELEV

4 A6.05 GYM STORAGE 124

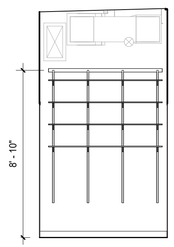
1/4" = 1'-0"



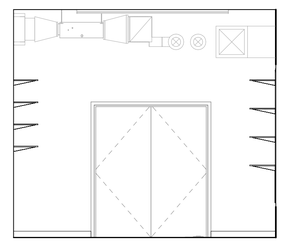
J - WEST ELEV



K - NORTH ELEV



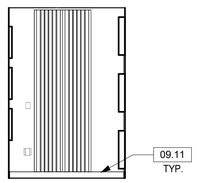
L - EAST ELEV



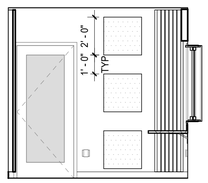
M - SOUTH ELEV

3 A6.05 HALL STORAGE 117

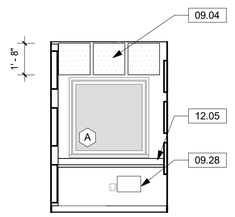
1/4" = 1'-0"



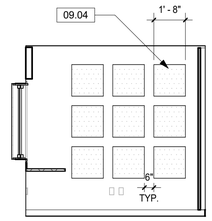
E - WEST ELEV



F - NORTH ELEV



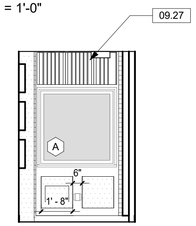
G - EAST ELEV



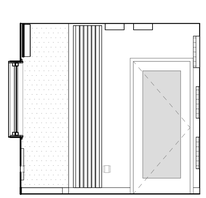
H - SOUTH ELEV

2 A6.05 ENGINEERING ROOM 116

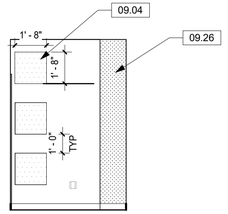
1/4" = 1'-0"



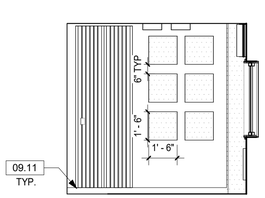
A - WEST ELEV



B - NORTH ELEV



C - EAST ELEV



D - SOUTH ELEV

1 A6.05 MUSIC BOOTH 115

1/4" = 1'-0"

KEYNOTE LEGEND

Key Value	Keynote Text
09.04	ACOUSTIC WALL PANELS
09.11	WOOD BASE
09.26	ACOUSTIC BASS TRAP
09.27	ACOUSTIC DIFFUSION PANEL
09.28	CABLE PASS-THROUGH
10.33	WALL-MOUNTED STANDARDS AND SHELVING
10.34	WIRE MESH PARTITIONS
12.05	SOLID SURFACE COUNTERTOP
23.08	DUCT, SMD
26.04	LIGHT SWITCH, SED
26.07	ELECTRICAL AND/OR DATA OUTLET, SED

SHEET NOTES

1. PROVIDE BLOCKING AT WALLS & CEILINGS FOR SURFACE MOUNTED EQUIPMENT, TYP.
2. SEE SHEETS G1.01 & G1.02 FOR TYPICAL ACCESSIBILITY REQUIREMENTS
3. SEE G2 AND G3 SERIES FOR SIGNAGE REQUIREMENTS INCLUDING SIGNAGE PLAN AND DETAILS.
4. SEE A9 SERIES SHEETS FOR STANDARD INTERIOR AND BASE DETAILS.
5. SEE A8.01 FOR INTERIOR PARTITION TYPES.
6. SEE WINDOW SCHEDULE FOR LOCATIONS OF CURTAINS AND WINDOW COVERINGS.
7. ALIGN DEVICES, UON, TYP.

0 2 4 8 ft.

Project Title:

CITY OF BERKELEY
PARKS, RECREATION & WATERFRONT DEPARTMENT

MLK JR. YOUTH SERVICES CENTER / YAP SEISMIC RETROFIT AND RENOVATION

1730 Oregon Street, Berkeley, CA 94703
APN#: 053-1676-001-02

Design Firm:

SIEGEL & STRAIN Architects
6201 Doyle Street, Suite B
Emeryville, CA 94608
TEL 510 / 547-8092
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Consultant:

Stamp:

LICENSED ARCHITECT
KAREN RICHARDS
No. C-32146
Exp: 08-31-25
STATE OF CALIFORNIA

No.	Description	Date
	PERMIT SET	12/04/24

Issue Note: PERMIT RESUBMITTAL 03/07/25

City Plan No.:	8286
City File No.:	402-145
Specification No.:	#25-11695-C
Project ID:	YAP
Drawn by:	HL
Checked by:	KR
Plot Date:	
Scale:	1/4" = 1'-0"

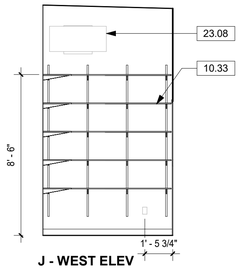
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INTERIOR ELEVATIONS

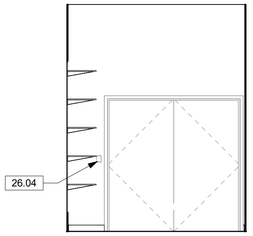
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A6.05

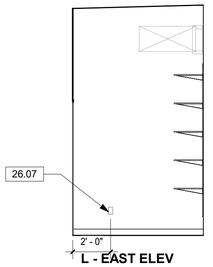
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J - WEST ELEV



K - NORTH ELEV



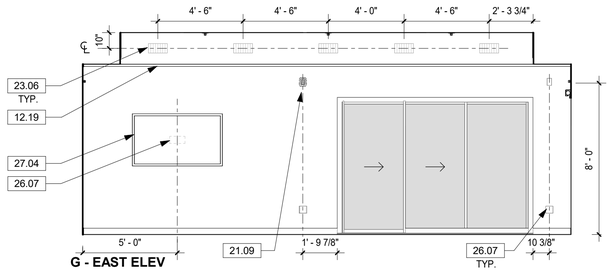
L - EAST ELEV



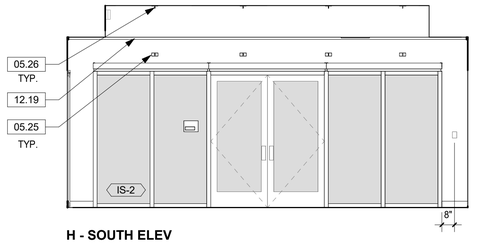
M - SOUTH ELEV

3 A6.06 STORAGE 125

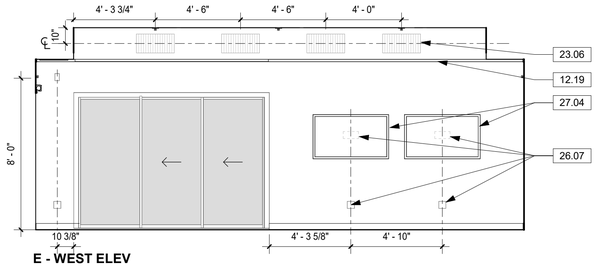
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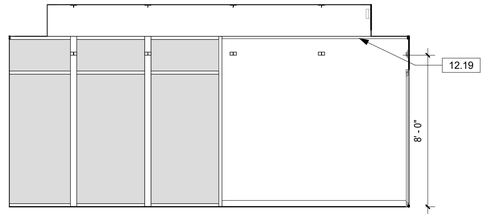
G - EAST ELEV



H - SOUTH ELEV



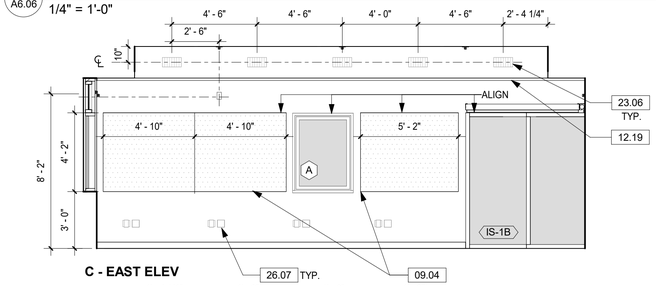
E - WEST ELEV



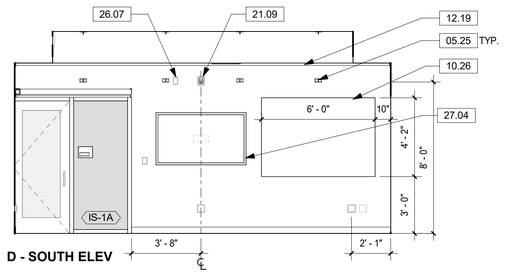
F - NORTH ELEV

2 A6.06 LOUNGE 120

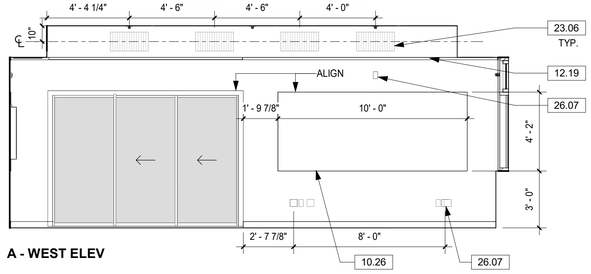
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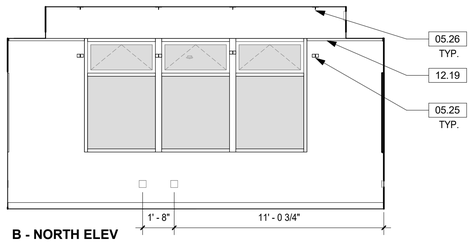
C - EAST ELEV



D - SOUTH ELEV



A - WEST ELEV



B - NORTH ELEV

1 A6.06 COMPUTER ROOM 119

1/4" = 1'-0"

KEYNOTE LEGEND

Key Value	Keynote Text
05.25	WIRE CABLE WALL ANCHOR
05.26	WIRE CABLE CEILING ANCHOR, RATED 200 LB, MOUNTED TO UNISTRUT IN ROOF FRAMING ABOVE, SEE 10/A9.10.
09.04	ACOUSTIC WALL PANELS
10.26	WALL MOUNTED MARKERBOARD
10.33	WALL-MOUNTED STANDARDS AND SHELVING
12.19	PICTURE RAIL
21.09	FIRE ALARM SYSTEM HORN / STROBE, SED
23.06	RETURN/ SUPPLY AIR GRILLE, SMD
23.08	DUCT, SMD
26.04	LIGHT SWITCH, SED
26.07	ELECTRICAL AND/OR DATA OUTLET, SED
27.04	FLAT SCREEN DISPLAY, OFCI

SHEET NOTES

1. PROVIDE BLOCKING AT WALLS & CEILINGS FOR SURFACE MOUNTED EQUIPMENT, TYP.
2. SEE SHEETS G1.01 & G1.02 FOR TYPICAL ACCESSIBILITY REQUIREMENTS
3. SEE G2 AND G3 SERIES FOR SIGNAGE REQUIREMENTS INCLUDING SIGNAGE PLAN AND DETAILS.
4. SEE A9 SERIES SHEETS FOR STANDARD INTERIOR AND BASE DETAILS.
5. SEE A8.01 FOR INTERIOR PARTITION TYPES.
6. SEE WINDOW SCHEDULE FOR LOCATIONS OF CURTAINS AND WINDOW COVERINGS.
7. ALIGN DEVICES, UON, TYP.

0 2 4 8 ft.

Project Title:

CITY OF BERKELEY
PARKS, RECREATION & WATERFRONT DEPARTMENT
MLK JR. YOUTH SERVICES CENTER / YAP
SEISMIC RETROFIT AND RENOVATION
1730 Oregon Street, Berkeley, CA 94703
APN#: 053-1676-001-02

Design Firm:
SIEGEL & STRAIN Architects
6201 Doyle Street, Suite B
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KAREN RICHARDS
No. C-32146
Exp: 08-31-25
STATE OF CALIFORNIA

No.	Description	Date
	PERMIT SET	12/04/24

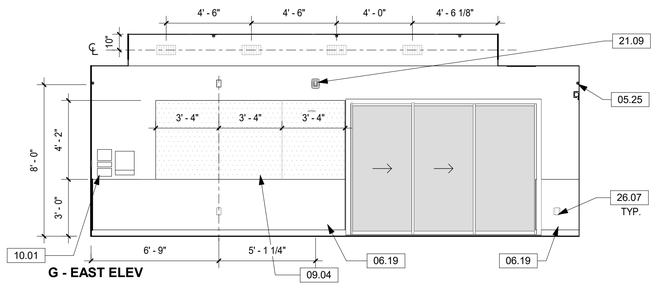
Issue Note: PERMIT RESUBMITTAL 03/07/25

City Plan No.:	8286
City File No.:	402-145
Specification No.:	#25-11695-C
Project ID:	YAP
Drawn by:	HL
Checked by:	KR
Plot Date:	
Scale:	1/4" = 1'-0"

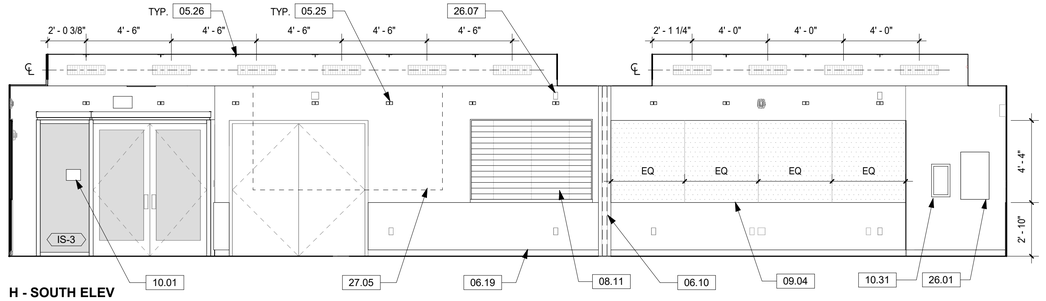
Sheet Title: INTERIOR ELEVATIONS

Sheet No.: A6.06

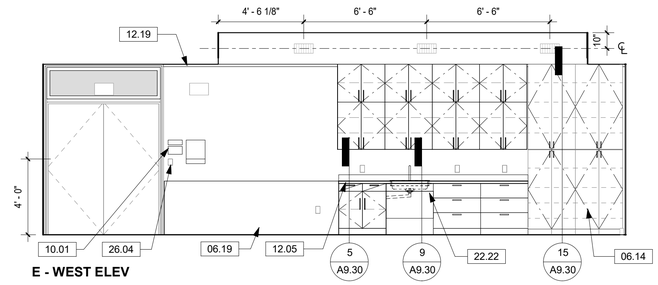
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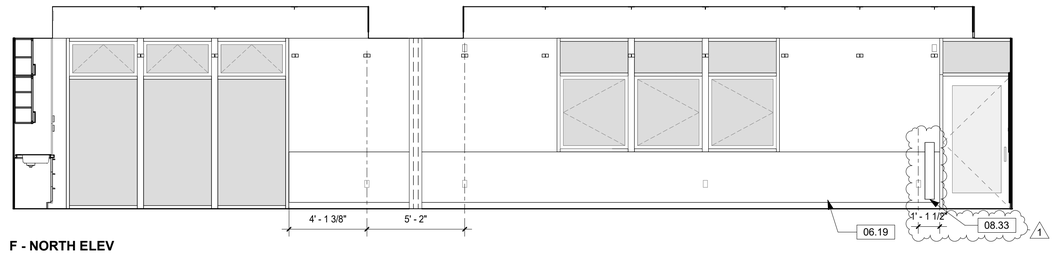
G - EAST ELEV



H - SOUTH ELEV



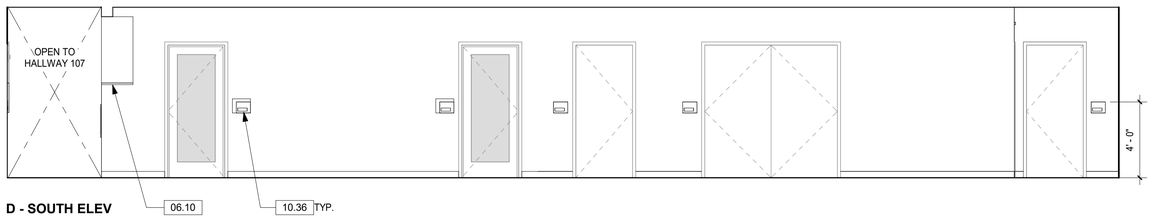
E - WEST ELEV



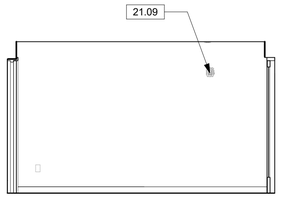
F - NORTH ELEV

2 A6.07 COMMUNITY ROOM 121, 122

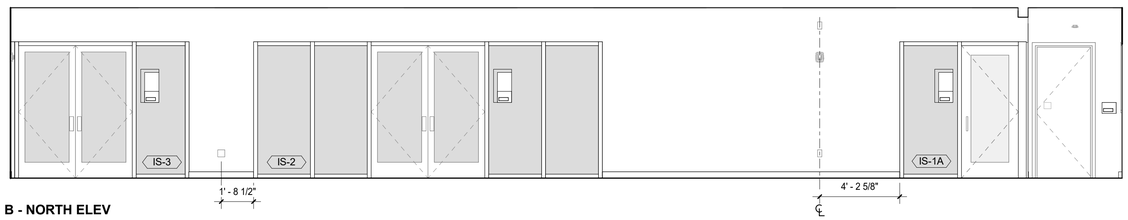
1/4" = 1'-0"



D - SOUTH ELEV



A - WEST ELEV



B - NORTH ELEV

1 A6.07 NORTH HALLWAY 114

1/4" = 1'-0"

KEYNOTE LEGEND

Key Value	Keynote Text
05.25	WIRE CABLE WALL ANCHOR
05.26	WIRE CABLE CEILING ANCHOR, RATED 200 LB, MOUNTED TO UNISTRUT IN ROOF FRAMING ABOVE, SEE 10/A9.10.
06.10	WOOD TRIM
06.14	BUILT IN WOOD CASEWORK
06.19	PLASTIC LAMINATE CLAD WOOD WAINSCOT
08.11	OVERHEAD COILING DOOR,
08.33	DOOR AUTO-OPERATOR
09.04	ACOUSTIC WALL PANELS
10.01	SIGNAGE
10.31	FIRE EXTINGUISHER CABINET
10.36	ROOM SIGNAGE, SEE SIGNAGE DRAWINGS
12.05	SOLID SURFACE COUNTERTOP
12.19	PICTURE RAIL
21.09	FIRE ALARM SYSTEM HORN / STROBE, SED
22.22	ART SINK WITH CLAY TRAP CONCEALED IN ADJACENT CASEWORK, SPD
26.01	ELECTRICAL PANEL, SED
26.04	LIGHT SWITCH, SED
26.07	ELECTRICAL AND/OR DATA OUTLET, SED
27.05	PROJECTOR SCREEN, SED

SHEET NOTES

1. PROVIDE BLOCKING AT WALLS & CEILINGS FOR SURFACE MOUNTED EQUIPMENT, TYP.
2. SEE SHEETS G1.01 & G1.02 FOR TYPICAL ACCESSIBILITY REQUIREMENTS
3. SEE G2 AND G3 SERIES FOR SIGNAGE REQUIREMENTS INCLUDING SIGNAGE PLAN AND DETAILS.
4. SEE A9 SERIES SHEETS FOR STANDARD INTERIOR AND BASE DETAILS.
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6. SEE WINDOW SCHEDULE FOR LOCATIONS OF CURTAINS AND WINDOW COVERINGS.
7. ALIGN DEVICES, UON, TYP.

0 2 4 8 ft.

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KAREN RICHARDS
No. C-32146
Exp: 08-31-25
STATE OF CALIFORNIA

No.	Description	Date
	PERMIT SET	12/04/24
1	PLAN CHECK #1	03/07/25

Issue Note: PERMIT RESUBMITTAL 03/07/25

City Plan No.:	8286
City File No.:	402-145
Specification No.:	#25-11695-C
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Checked by:	KR
Plot Date:	
Scale:	1/4" = 1'-0"

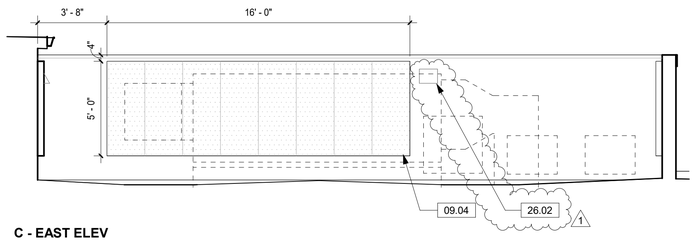
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INTERIOR ELEVATIONS

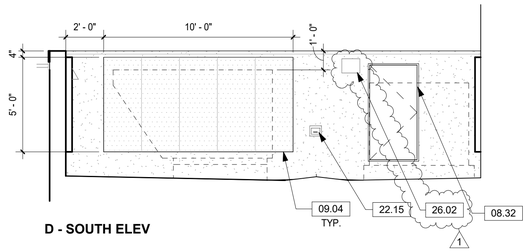
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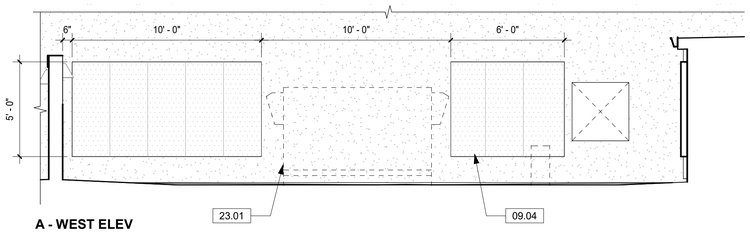
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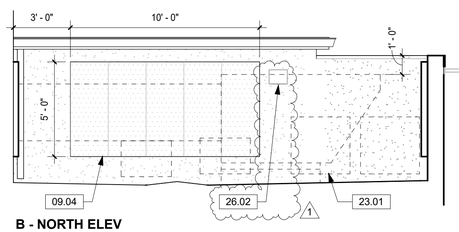
C - EAST ELEV



D - SOUTH ELEV



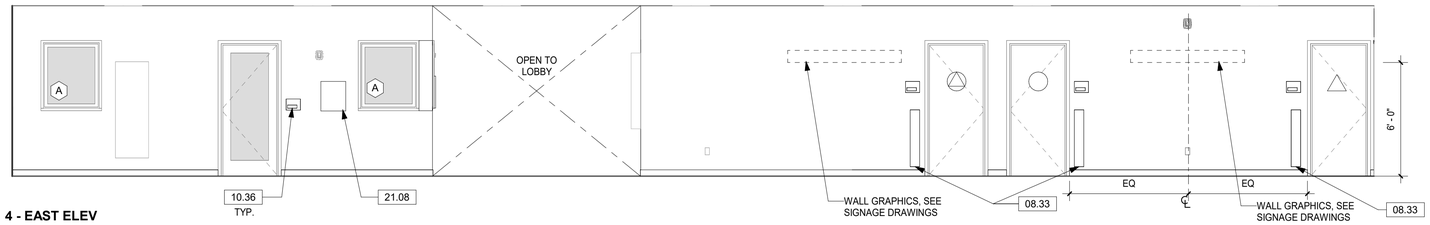
A - WEST ELEV



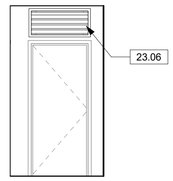
B - NORTH ELEV

2 A6.08 MECHANICAL WELL

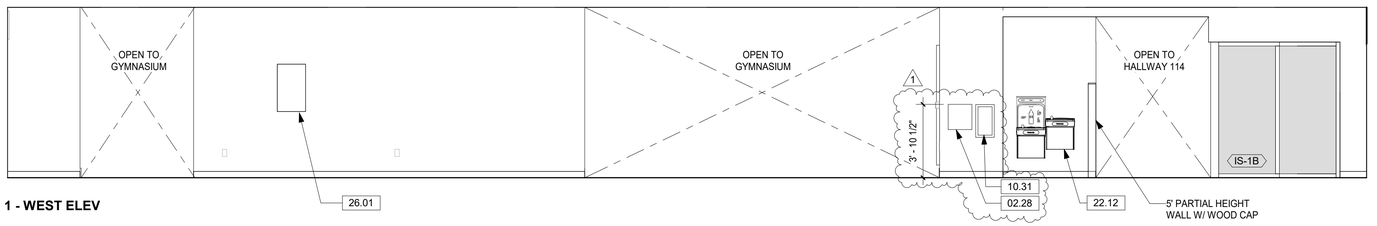
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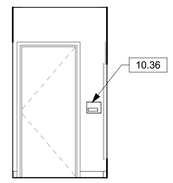
4 - EAST ELEV



2 - SOUTH ELEV



1 - WEST ELEV



3 - NORTH ELEV

1 A6.08 ENTRY HALLWAY 107

1/4" = 1'-0"

KEYNOTE LEGEND

Key Value	Keynote Text
02.28	(E) AUTOMATED EXTERNAL DEFIBRILLATOR TO BE RELOCATED
08.32	EXTERIOR ACCESS DOOR
08.33	DOOR AUTO-OPERATOR
09.04	ACOUSTIC WALL PANELS
10.31	FIRE EXTINGUISHER CABINET
10.36	ROOM SIGNAGE, SEE SIGNAGE DRAWINGS
21.08	FIRE ALARM CONTROL PANEL
22.12	DRINKING FOUNTAIN, SPD
22.15	HOSE BIBB, SPD
23.01	MECHANICAL EQUIPMENT, SMD
23.06	RETURN/ SUPPLY AIR GRILLE, SMD
26.01	ELECTRICAL PANEL, SED
26.02	LIGHT FIXTURE, SED

SHEET NOTES

1. PROVIDE BLOCKING AT WALLS & CEILINGS FOR SURFACE MOUNTED EQUIPMENT, TYP.
2. SEE SHEETS G1.01 & G1.02 FOR TYPICAL ACCESSIBILITY REQUIREMENTS
3. SEE G2 AND G3 SERIES FOR SIGNAGE REQUIREMENTS INCLUDING SIGNAGE PLAN AND DETAILS.
4. SEE A9 SERIES SHEETS FOR STANDARD INTERIOR AND BASE DETAILS.
5. SEE A8.01 FOR INTERIOR PARTITION TYPES.
6. SEE WINDOW SCHEDULE FOR LOCATIONS OF CURTAINS AND WINDOW COVERINGS.
7. ALIGN DEVICES, UON, TYP.

0 2 4 8 ft.

Project Title:

CITY OF BERKELEY
PARKS, RECREATION & WATERFRONT DEPARTMENT
MLK JR. YOUTH SERVICES CENTER / YAP
SEISMIC RETROFIT AND RENOVATION
1730 Oregon Street, Berkeley, CA 94703
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Stamp:

LICENSED ARCHITECT
KAREN RICHARDS
No. C-32146
Exp: 08-31-25
STATE OF CALIFORNIA

No.	Description	Date
	PERMIT SET	12/04/24
1	PLAN CHECK #1	03/07/25

Issue Note: PERMIT RESUBMITTAL 03/07/25

City Plan No.:	8286
City File No.:	402-145
Specification No.:	#25-11695-C
Project ID:	YAP
Drawn by:	HL
Checked by:	KR
Plot Date:	
Scale:	1/4" = 1'-0"

Sheet Title:

INTERIOR ELEVATIONS

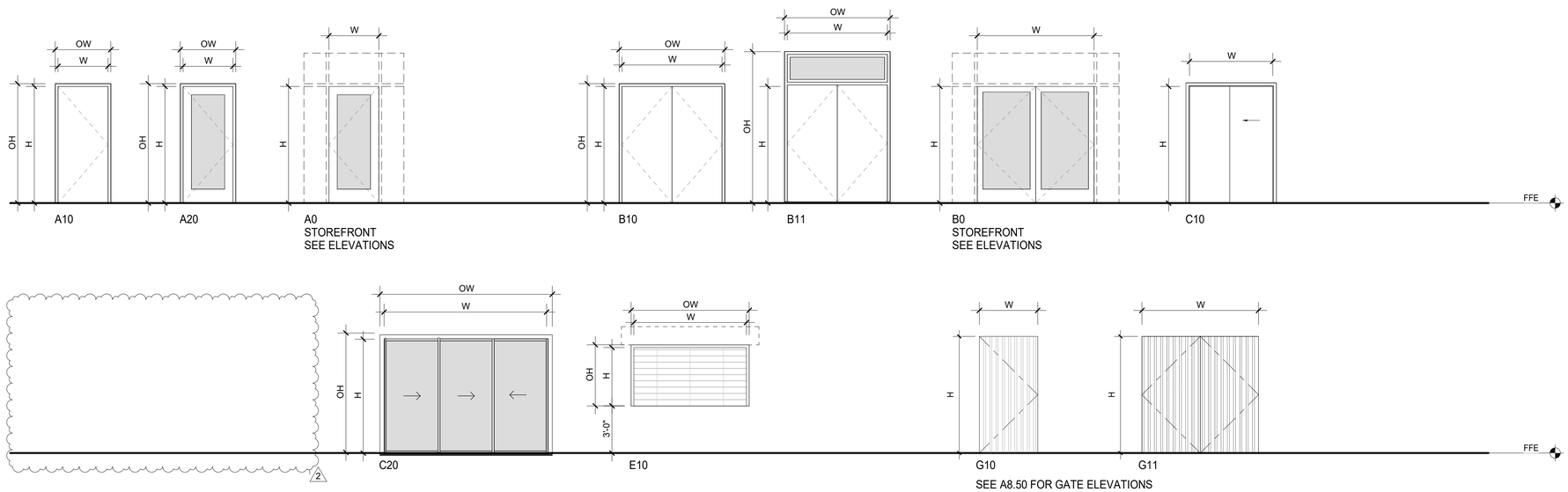
Sheet No.:

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DOOR AND GATE SCHEDULE

ROOM NAME	DOOR NO.	TYPE	EXTERIOR/ INTERIOR	DOOR DIMENSIONS			OVERALL FRAME WIDTH (OW)	OVERALL FRAME HEIGHT (OH)	FIRE RATING	GLAZING	DOOR PANEL		DOOR FRAME		DETAILS			HARDWARE GROUP	PANIC	CARD READER	U-FACTOR	SHGC	VT	REMARKS
				WIDTH (W)	HEIGHT (H)	THICKNESS					MATERIAL	FINISH	MATERIAL	FINISH	HEAD	JAMB	THRESHOLD							
Exterior																								
OREGON ST GATE	001.1	G10	Exterior	4' - 2"	7' - 0"	1 3/4"	4' - 2"	7' - 0"			STL	FF	STL	FF				20	X					CUSTOM PEDESTRIAN SWING GATE, 1" PICKET W/ EXPANDED METAL PANEL AND MIN. 43 INCH CLEAR OPENING
OREGON ST GATE	001.2	G11	Exterior	10' - 0"	7' - 0"	1 3/4"	10' - 0"	6' - 10"			STL	FF	STL	FF				22						VEHICULAR SWING GATE, 1" PICKET W/ EXPANDED METAL PANEL
GROVE PARK GATE	001.3	G10	Exterior	4' - 0"	7' - 0"	1 3/4"	4' - 0"	7' - 0"			STL	FF	STL	FF				20	X					PRE-ASSEMBLED AND PRE-HUNG PEDESTRIAN SWING GATE, 1" PICKET W/ EXPANDED METAL PANEL
BACKYARD GATE	001.4	G10	Exterior	3' - 6"	8' - 0"	1 3/4"	3' - 6"	8' - 0"			STL	FF	STL	FF				21						PEDESTRIAN SWING GATE, CHAIN LINK FENCING
LOBBY	101.1	B0	Exterior	6' - 0"	7' - 0"	1 3/4"	6' - 0"	7' - 0"		GL-2	ALUM / GL	FF	ALUM	FF	1/A8.32	1/A8.32	5/A8.32	02	X	X	0.45	0.23	0.17	STOREFRONT, AUTO-OPERATOR FOR ACCESSIBILITY. PANIC HARDWARE AND INSIDE ACTUATOR RELEASES ELECTRIC LOCK
GYMNASIUM	102.1	B11	Exterior	6' - 0"	7' - 0"	1 3/4"	6' - 4"	9' - 0"		GL-3	HM	PTD	HM	PTD	8/A8.32	7/A8.32	6/A8.32	04	X		0.70			
COMMUNITY ROOM 1	121.4	A0	Exterior	3' - 7"	7' - 0"	1 3/4"	3' - 7"	7' - 0"		GL-2	ALUM / GL	FF	ALUM	FF	1/A8.32	3/A8.32	5/A8.32	01	X		0.45	0.23	0.17	STOREFRONT, AUTO-OPERATOR FOR ACCESSIBILITY WITH STANDBY POWER
COMMUNITY ROOM 2	122.1	B11	Exterior	6' - 0"	7' - 0"	1 3/4"	6' - 4"	9' - 0"		GL-3	HM	PTD	HM	PTD	8/A8.32	7/A8.32	6/A8.32	03	X	X	0.70			PANIC HARDWARE RELEASES ELECTRIC LOCK
ELEC.	127.1	B10	Exterior	6' - 0"	7' - 0"	1 3/4"	6' - 4"	7' - 2"			HM	PTD	HM	PTD	8/A8.32	7/A8.32	6/A8.32	05	X		0.70			
Interior																								
GYMNASIUM	102.2	A10	Interior	3' - 0"	7' - 0"	1 3/4"	3' - 4"	7' - 2"			HM	PTD	HM	PTD	4/A9.20	4/A9.20	10/A9.20	10	X					1
CONFERENCE ROOM	103.1	A0	Interior	3' - 0"	7' - 0"	1 3/4"	3' - 0"	7' - 0"		GL-1	ALUM / GL	FF	ALUM	FF	3/A9.20	3/A9.20	6/A9.20	12						STOREFRONT, ACOUSTICALLY SEALED
CONFERENCE ROOM	103.2	C10	Interior	4' - 6"	7' - 0"	1 3/8"	4' - 6"	7' - 0"			WD	PTD	WD	PTD				23						
OFFICE	104.1	A20	Interior	3' - 0"	7' - 0"	1 3/4"	3' - 4"	7' - 2"		GL-1	ALUM / GL	FF	ALUM	FF	3/A9.20	3/A9.20	2/A9.20	12						MANUAL ROLLER SHADE, ACOUSTICALLY SEALED
SUPERVISOR	106.1	A10	Interior	3' - 0"	7' - 0"	1 3/4"	3' - 4"	7' - 2"			HM	PTD	HM	PTD	12/A9.20	12/A9.20	6/A9.20	11						ACOUSTICALLY SEALED
ALL GENDER	108.1	A10	Interior	3' - 0"	7' - 0"	1 3/4"	3' - 4"	7' - 2"			HM	PTD	HM	PTD	4/A9.20	4/A9.20	1/A9.20	06						AUTO-OPERATOR
SHOWER	109.1	A10	Interior	3' - 0"	7' - 0"	1 3/4"	3' - 4"	7' - 2"			HM	PTD	HM	PTD	4/A9.20	4/A9.20	1/A9.20	14						
WOMENS	110.1	A10	Interior	3' - 0"	7' - 0"	1 3/4"	3' - 4"	7' - 2"			HM	PTD	HM	PTD	4/A9.20	4/A9.20	1/A9.20	16						AUTO-OPERATOR
MENS	111.1	A10	Interior	3' - 0"	7' - 0"	1 3/4"	3' - 4"	7' - 2"			HM	PTD	HM	PTD	4/A9.20	4/A9.20	1/A9.20	16						AUTO-OPERATOR
STAFF UTILITY ROOM	112.1	A10	Interior	3' - 0"	7' - 0"	1 3/4"	3' - 4"	7' - 2"			HM	PTD	HM	PTD	4/A9.20	4/A9.20	1/A9.20	08						
STAFF UTILITY ROOM	112.2	B10	Interior	4' - 4"	7' - 0"	1 3/4"	4' - 8"	7' - 2"			HM	PTD	HM	PTD	4/A9.20	4/A9.20	1/A9.20	18						
STAFF UTILITY ROOM	112.3	A10	Interior	2' - 2"	7' - 0"	1 3/4"	2' - 6"	7' - 2"			HM	PTD	HM	PTD	4/A9.20	4/A9.20	1/A9.20	18						2
STAFF UTILITY ROOM	112.4	B10	Interior	5' - 4"	7' - 0"	1 3/4"	5' - 8"	7' - 2"			HM	PTD	HM	PTD	4/A9.20	4/A9.20	1/A9.20	18						
STAFF RR	113.1	A10	Interior	3' - 0"	7' - 0"	1 3/4"	3' - 4"	7' - 2"			HM	PTD	HM	PTD	4/A9.20	4/A9.20	1/A9.20	15						
MUSIC BOOTH	115.1	A20	Interior	3' - 0"	7' - 0"	1 3/4"	3' - 4"	7' - 2"		GL-4	STL / GL	PTD	STL	PTD				09						STC 52
ENGINEERING ROOM	116.1	A20	Interior	3' - 0"	7' - 0"	1 3/4"	3' - 4"	7' - 2"		GL-4	STL / GL	PTD	STL	PTD				09						STC 52
HALL STORAGE	117.1	B10	Interior	7' - 0"	7' - 0"	1 3/4"	7' - 4"	7' - 2"			HM	PTD	HM	PTD	4/A9.20	4/A9.20	2/A9.20	18						
HALL STORAGE	117.2	B10	Interior	6' - 0"	7' - 0"	1 3/4"	6' - 4"	7' - 2"			HM	PTD	HM	PTD	4/A9.20	4/A9.20	10/A9.20	18						
UTIL	118.1	B10	Interior	6' - 0"	7' - 0"	1 3/4"	6' - 4"	7' - 2"			HM	PTD	HM	PTD	4/A9.20	4/A9.20	2/A9.20	19						
COMPUTER ROOM	119.1	A0	Interior	3' - 0"	7' - 0"	1 3/4"	3' - 0"	7' - 0"		GL-1	ALUM / GL	FF	ALUM	FF	3/A9.20	3/A9.20	5/A9.20	07						STOREFRONT
LOUNGE	119.2	C20	Interior	10' - 0"	7' - 0"	1 3/4"	10' - 4"	7' - 2"		GL-1	ALUM / GL	FF	ALUM	FF	6/A9.21	6/A9.21	5/A9.21	25						SLIDING GLASS DOOR, STC 40
LOUNGE	120.1	B0	Interior	6' - 0"	7' - 0"	1 3/4"	6' - 0"	7' - 0"		GL-1	ALUM / GL	FF	ALUM	FF	3/A9.20	3/A9.20	5/A9.20	17						STOREFRONT
COMMUNITY ROOM 1	121.1	B0	Interior	6' - 0"	7' - 0"	1 3/4"	6' - 0"	7' - 0"		GL-1	ALUM / GL	FF	ALUM	FF	3/A9.20	3/A9.20	5/A9.20	17	X					STOREFRONT
COMMUNITY ROOM 1	121.2	C20	Interior	10' - 0"	7' - 0"	1 3/4"	10' - 4"	7' - 2"		GL-1	ALUM / GL	FF	ALUM	FF	6/A9.21	6/A9.21	5/A9.21	25						SLIDING GLASS DOOR, STC 40
GYM STORAGE	124.1	B10	Interior	6' - 0"	7' - 0"	1 3/4"	6' - 4"	7' - 2"			HM	PTD	HM	PTD	4/A9.20	4/A9.20	10/A9.20	18						
STORAGE	125.1	B10	Interior	7' - 0"	7' - 0"	1 3/4"	7' - 4"	7' - 2"			HM	PTD	HM	PTD	4/A9.20	4/A9.20	9/A9.20	18						
KITCHEN	126.1	A10	Interior	3' - 6"	7' - 0"	1 3/4"	3' - 10"	7' - 2"			HM	PTD	HM	PTD	4/A9.20	4/A9.20	9/A9.20	08						
KITCHEN	126.2	E10	Interior	6' - 2 1/2"	4' - 1 1/4"	3"	6' - 4"	4' - 2"			STL	FF	STL	FF	1/A9.21	3/A9.21	1/A9.21	24						ROLL UP PASS THROUGH DOOR
IT ROOM	128.1	A10	Interior	3' - 0"	7' - 0"	1 3/4"	3' - 4"	7' - 2"			HM	PTD	HM	PTD	4/A9.20	4/A9.20	2/A9.20	13						

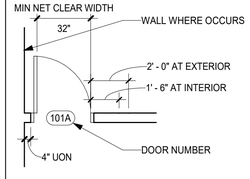


1 DOOR TYPES
1/4" = 1'-0"

SHEET NOTES

1. VERIFY ALL DIMENSIONS IN FIELD PRIOR TO ORDER.
2. PROVIDE SAFETY GLAZING IN ALL DOORS AND WINDOWS WITHIN 24" OF DOOR EDGES IN ACCORDANCE WITH CBC SEC 2406.4.2
3. DOOR HARDWARE SHALL HAVE A SHAPE THAT IS EASY TO GRASP WITH ONE HAND AND DOES NOT REQUIRE TIGHT GRASPING, TIGHT PINCHING OR TWISTING OF THE WRIST TO OPERATE. TYPICAL DOOR HARDWARE TO BE LEVER TYPE UNLESS OTHERWISE NOTED. ALL NEW DOOR HARDWARE SHALL BE ACCESSIBLE PER CBC CHAPTER 11B.
4. THE MAX EFFORT FOR PUSHING OR PULLING OPEN MANUALLY OPERATED INTERIOR SWINGING EGRESS DOORS (WITHOUT CLOSERS) OTHER THAN FIRE DOORS, IS 5 POUNDS PER CBC SEC 1010.1.3
5. THE MAX EFFORT FOR PUSHING OR PULLING INTERIOR AND EXTERIOR HINGED DOORS IS 5 POUNDS PER CBC SEC 11B-404.2.9. PER EXCEPTION, WHERE POWERED DOOR LEAF IS PROVIDED, OTHER EXTERIOR DOORS SERVING SAME LOCATION CAN HAVE MAX OPENING FORCE OF 8.5 POUNDS.
6. THE MAX FORCE FOR OPERATING LATCHING MECHANISM FOR OTHER SWINGING DOORS, SLIDING DOORS, FOLDING DOORS, AND FIRE DOORS IS 15-POUNDS. THE DOOR SHALL BE SET IN MOTION WHEN SUBJECTED TO A 30-POUND FORCE. THE DOOR SHALL SWING TO A FULL-OPEN POSITION WHEN SUBJECTED TO A 15-POUND FORCE. SEE CBC 1010.1.3.
7. THE FLOOR OR LANDING SHALL NOT BE MORE THAN 1/2 INCH LOWER THAN THE THRESHOLD OF THE DOORWAY. CHANGE IN LEVEL BETWEEN 1/4 INCH AND 1/2 INCH SHALL BE BEVELED WITH A SLOPE NO GREATER THAN ONE UNIT VERTICAL TO 2 UNITS HORIZONTAL.
8. DOORS TO HAVE A 10-INCH HIGH SMOOTH UNINTERRUPTED SURFACE PROVIDED AT THEIR BASE.
9. OPENING HARDWARE TO BE LOCATED BETWEEN 34" TO 44" ABOVE THE FLOOR. FOR MOUNTING HEIGHTS AND ACCESSIBILITY CLEARANCES SEE SHEET G1.02.
10. PANIC HARDWARE SHALL BE LISTED IN ACCORDANCE WITH UL 305
11. FIRE EXIT HARDWARE SHALL BE LISTED IN ACCORDANCE WITH UL 10C AND UL 305.
12. SEE SIGNAGE PLANS G2.01 - G3.07 FOR DOOR SIGNAGE.
13. SEE SPECIFICATIONS FOR HARDWARE GROUPS LISTED IN SCHEDULE.
14. SEE A9 SERIES INTERIOR DETAILS SHEETS FOR TYPICAL FLOOR TRANSITIONS.
15. SEE SHEET G1.02 FOR TYPICAL DOOR ACCESSIBILITY CLEARANCES.
16. SEE M9.1 FOR U-FACTOR, SOLAR HEAT GAIN COEFFICIENT, VISIBLE TRANSMITTANCE OF EXTERIOR DOORS AND GLAZINGS PER TITLE 24 REQUIREMENTS.
17. ALL DOORS SHALL BE OPENABLE FROM THE INSIDE WITHOUT THE USE OF A KEY OR ANY SPECIAL KNOWLEDGE OR EFFORT. (1)

LEGEND



ABBREVIATIONS

ALUM	ALUMINUM
FF	FACTORY FINISH
GL	GLASS
HM	HOLLOW METAL
NR	NOT RATED
PTD	PAINTED
SCWD	SOLID CORE WOOD DOOR
STL	STEEL
WD	WOOD

GLAZING SCHEDULE

GL-1	CLEAR GLASS, SINGLE PANE, TEMPERED
GL-2	CLEAR GLASS, DOUBLE PANE, TEMPERED
GL-3	CLEAR GLASS, DOUBLE PANE
GL-4	CLEAR GLASS, ACOUSTIC

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KAREN RICHARDS
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STATE OF CALIFORNIA

No.	Description	Date
	PERMIT SET	12/04/24
1	PLAN CHECK #1	03/07/25
2	COORDINATION	2/28/25

Issue Note: PERMIT RESUBMITTAL 03/07/25

City Plan No.:	8286
City File No.:	402-145
Specification No.:	#25-11695-C
Project ID:	YAP
Drawn by:	HL
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Plot Date:	
Scale:	1/4" = 1'-0"

Sheet Title: DOOR SCHEDULE

Sheet No.: A7.01

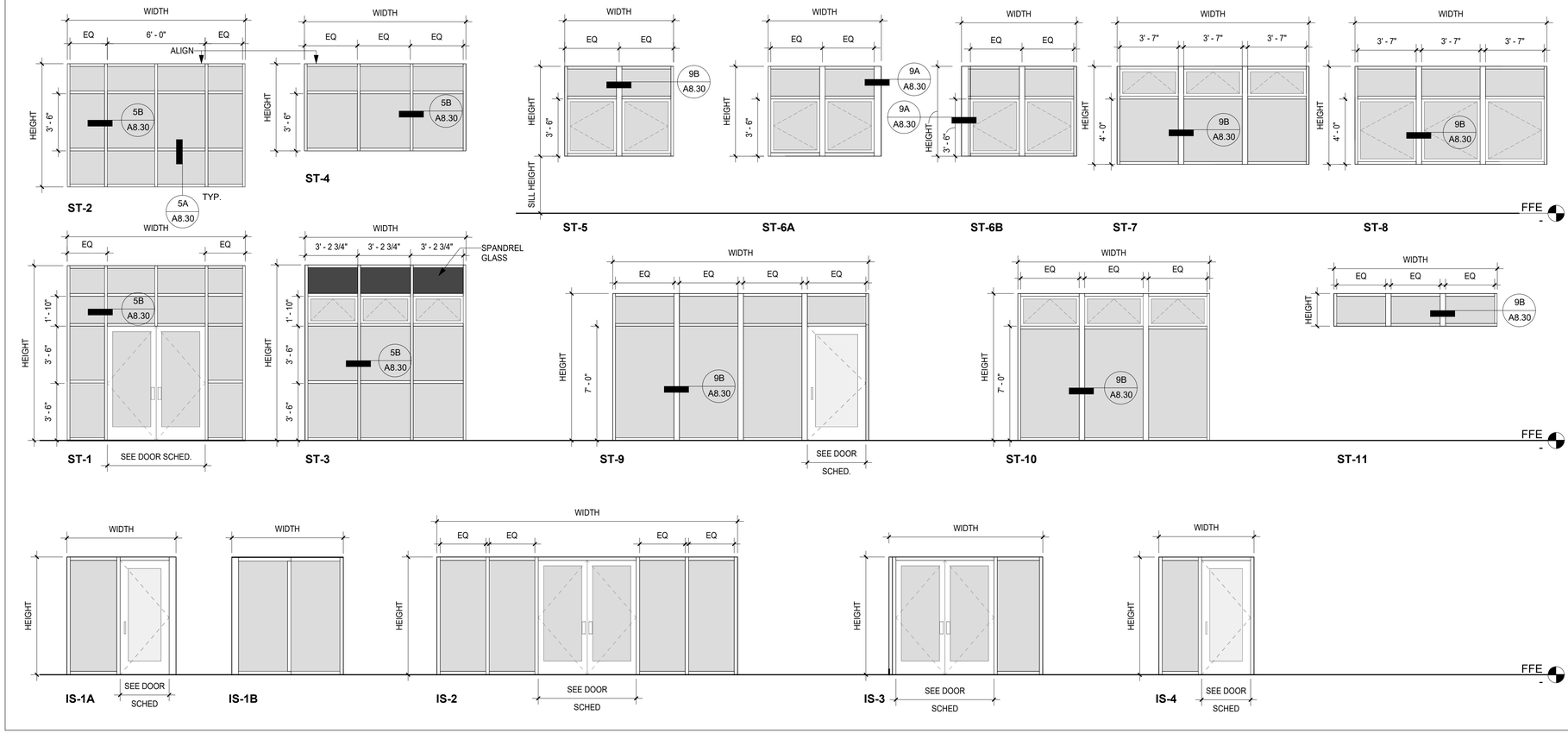
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STOREFRONT WALL SCHEDULE

TYPE	DIMENSIONS WIDTH	DIMENSIONS HEIGHT	DIMENSIONS SILL HEIGHT	DETAILS HEAD	DETAILS JAMB	DETAILS SILL	DETAILS MULLION	WINDOW COVERING	GLAZING	U-FACTOR	SHGC	VT	REMARKS
Exterior													
ST-1	10' - 10 3/4"	10' - 8 1/2"	0"	16/A8.30	15/A8.30	13/A8.30	5A, 5B/A8.30		GL-2	0.41	0.26	0.46	
ST-2	11' - 3 1/2"	7' - 6 1/2"	12' - 5 1/2"	16/A8.30	15/A8.30	14/A8.30	5A, 5B/A8.30		GL-3	0.41	0.26	0.46	
ST-3	9' - 10 1/4"	10' - 9"	0"	12/A8.30	11/A8.30	13/A8.30	5A, 5B/A8.30	SS-M	GL-3 / GL-4	0.41	0.26	0.46	
ST-4	9' - 10 3/4"	5' - 4"	14' - 8"	16/A8.30	15/A8.30	6/A8.40	5A, 5B/A8.30		GL-3	0.41	0.26	0.46	
ST-5	6' - 8"	5' - 6"	3' - 6"	8/A8.30	7/A8.30, 15/A8.30	6/A8.30	5A, 9B/A8.30	SS-M	GL-3	0.41	0.26	0.46	
ST-6A	6' - 11"	5' - 6"	3' - 6"	8/A8.30	15/A8.30	6/A8.30	5A, 9A, 9B/A8.30	SS-M	GL-3	0.41	0.26	0.46	
ST-6B	6' - 10"	5' - 6"	3' - 6"	8/A8.30	7/A8.30	6/A8.30	5A, 9A, 9B/A8.30	SS-M	GL-3	0.41	0.26	0.46	
ST-7	11' - 9"	6' - 0"	3' - 0"	8/A8.30	7/A8.30, 15/A8.30	6/A8.30	5A, 9B/A8.30	SS-M	GL-3	0.41	0.26	0.46	
ST-8	15' - 8"	9' - 0"	0"	4/A8.31	2/A8.31, 3/A8.31	13/A8.30	5A, 9B/A8.30	SS-M	GL-3	0.41	0.26	0.46	
ST-9	11' - 9"	6' - 0"	3' - 0"	8/A8.30	7/A8.30, 15/A8.30	6/A8.30	5A, 9B/A8.30	SS-M	GL-2	0.41	0.26	0.46	
ST-10	11' - 9"	9' - 0"	0"	4/A8.31	2/A8.31	11/A8.10	5A, 9B/A8.30	SS-M	GL-2	0.41	0.26	0.46	
ST-11	10' - 0"	2' - 0"	7' - 0"	12/A8.30	11/A8.30	10/A8.30	5A, 9B/A8.30		GL-5	0.41	0.26	0.46	
Interior													
IS-1A	6' - 8 1/4"	7' - 2 1/2"	0"	3/A9.20, 8/A9.20	8/A9.20	5/A9.20, 7/A9.20		ADD ALT 5:SS-M, ADD ALT 6: SS-E	GL-1				
IS-1B	6' - 5"	7' - 2"	0"	8/A9.20	8/A9.20	7/A9.20		ADD ALT 5:SS-M, ADD ALT 6: SS-E	GL-1				
IS-2	18' - 5"	7' - 2 1/2"	0"	3/A9.20, 8/A9.20	8/A9.20	5/A9.20, 7/A9.20		ADD ALT 5:SS-M, ADD ALT 6: SS-E	GL-1				
IS-3	9' - 9 1/2"	7' - 2 1/2"	0"	3/A9.20, 8/A9.20	8/A9.20	5/A9.20, 7/A9.20		ADD ALT 5:SS-M, ADD ALT 6: SS-E	GL-1				
IS-4	5' - 10"	7' - 2 1/2"	0"	3/A9.20, 8/A9.20	8/A9.20	5/A9.20, 7/A9.20		ADD ALT 5:SS-M, ADD ALT 6: SS-E	GL-1				

1

2



SHEET NOTES:

1. SAFETY GLAZING MUST BE PROVIDED AT HAZARDOUS LOCATIONS PER CBC 2406.4, INCLUDING BUT NOT LIMITED TO GLAZING WITHIN 24" OF DOOR EDGES AND GLAZING GREATER THAN 9 SF WITH A SILL LESS THAN 18" ABOVE THE WALKING SURFACE.
2. WINDOWS IDENTIFIED AS EMERGENCY EGRESS FOR SLEEPING ROOMS SHALL HAVE A NET CLEAR OPENING OF 5.7 SF, A MINIMUM CLEAR OPENING HEIGHT OF 24", A MINIMUM CLEAR OPENING WIDTH OF 20" AND HAVE THE CLEAR OPENING NOT MORE THAN 44" AFF AS REQ BY CBC 1031.3.
3. PROVIDE 4" LIMITER TO AWNING AND CASEMENT WINDOWS O/ WALKWAYS W/ SILL HEIGHT FROM 27"-80" ABOVE THE WALKING SURFACE PER CBC 11B-307.2.4.
4. PROVIDE METAL INSECT SCREENS AT ALL OPERABLE WINDOWS.
5. SEE SHEETS A8 SHEETS FOR TYPICAL FLASHING DETAILS.
6. VERIFY ALL DIMENSIONS IN FIELD PRIOR TO ORDER.
7. SEE ELEVATIONS FOR OPERABLE SASH LOCATIONS AND SWING DIRECTION.
8. SEE RCPs AND INTERIOR ELEVATIONS FOR FURTHER INFORMATION ON MOUNTING WINDOW COVERINGS.
9. SEE M9.1 FOR U-FACTOR, SOLAR HEAT GAIN COEFFICIENT, AND VISIBLE TRANSMITTANCE OF GLAZINGS PER TITLE 24 REQUIREMENTS.

LEGEND

ABBREVIATIONS

ALUM	ALUMINUM
BS	BLACKOUT SHADE
CLR	CLEAR
CTN	CURTAINS
DS	DUAL SOLAR AND BLACKOUT SHADE
GL	GLASS
PS	PRIVACY SHADE
PTD	PAINTED
SCD	SUNSHADE DEVICE
SS	SOLAR SHADE
STL	STEEL
WD	WOOD
-M	MANUALLY OPERATED
-E	ELECTRONICALLY OPERATED
-R	REMOVABLE

GLAZING SCHEDULE

GL-1	CLEAR GLASS, SINGLE PANE, TEMPERED
GL-2	CLEAR GLASS, DOUBLE PANE, TEMPERED
GL-3	CLEAR GLASS, DOUBLE PANE
GL-4	CLEAR GLASS & SPANDREL GLASS, DOUBLE PANE
GL-5	CLEAR GLASS & FROSTED GLASS, DOUBLE PANE
GL-6	CLEAR GLASS, ACOUSTIC

Project Title:

CITY OF BERKELEY
PARKS, RECREATION & WATERFRONT DEPARTMENT
MLK JR. YOUTH SERVICES CENTER / YAP
SEISMIC RETROFIT AND RENOVATION
1730 Oregon Street, Berkeley, CA 94703
APN#: 053-1676-001-02

Design Firm:

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Consultant:

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LICENSED ARCHITECT
KAREN RICHARDS
No. C-32146
Exp: 08-31-25
STATE OF CALIFORNIA

No.	Description	Date
	PERMIT SET	12/04/24
1	PLAN CHECK #1	03/07/25
2	COORDINATION	2/28/25

Issue Note: PERMIT RESUBMITTAL 03/07/25

City Plan No.:	8286
City File No.:	402-145
Specification No.:	#25-11695-C
Project ID:	YAP
Drawn by:	HL
Checked by:	KR
Plot Date:	
Scale:	As indicated

Sheet Title:

STOREFRONT SCHEDULE

Sheet No.:

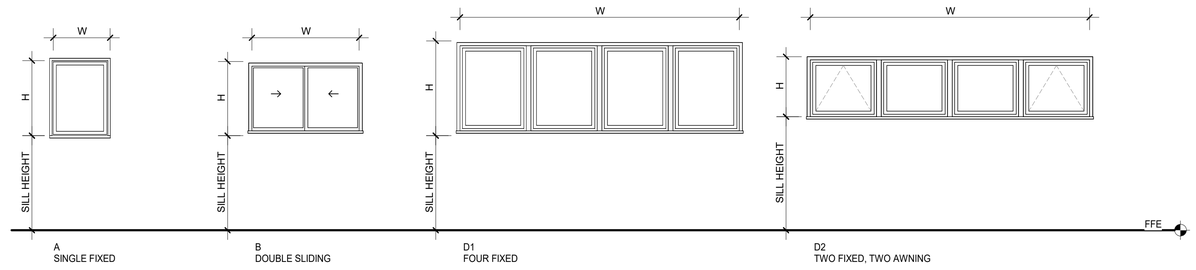
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WINDOW SCHEDULE

ROOM NAME	WINDOW NO.	TYPE	OPERATION	WIDTH	HEIGHT	SILL HEIGHT	MATERIAL	FINISH	DETAILS HEAD	DETAILS JAMB	DETAILS SILL	GLAZING	U-FACTOR	SHGC	VT	ELECTRIC OPERATOR	WINDOW COVERINGS	REMARKS
OFFICE	104.1	A	FIXED	3' - 0"	3' - 6"	3' - 6 3/4"	ALUM	FF	13/A9.21	13/A9.21	12/A9.21	GL-1					ROLLER BLINDS	
OFFICE	104.2	B	SLIDING	6' - 0"	3' - 6"	3' - 6"	ALUM	FF	8/A9.21	9/A9.21	7/A9.21	GL-1					ROLLER BLINDS	
OFFICE	104.3	A	FIXED	3' - 0"	3' - 6"	3' - 6 3/4"	ALUM	FF	13/A9.21	13/A9.21	12/A9.21	GL-1					ROLLER BLINDS	
SUPERVISOR	106.1	A	FIXED	3' - 0"	4' - 0"	3' - 0 1/2"	ALUM	FF	13/A9.21	13/A9.21	12/A9.21	GL-1					ROLLER BLINDS	
MUSIC BOOTH	115.2	A	FIXED	4' - 0"	4' - 0"	3' - 0"	ALUM	FF	16/A9.20	16/A9.20	16/A9.20	GL-6						STC 48, SITE FABRICATED GLAZING UNIT LAMINATED AND PLATE GLASS. 2
GYMNASIUM	202.1	D1	FIXED	14' - 9"	4' - 6"	17' - 0"	ALUM	FF	4/A8.30	3/A8.30, 2/A8.30	1/A8.30	GL-2	0.58	0.41	0.42			
GYMNASIUM	202.2	D1	FIXED	14' - 9"	4' - 6"	17' - 0"	ALUM	FF	4/A8.30	2/A8.30	1/A8.30	GL-2	0.58	0.41	0.42			
GYMNASIUM	202.3	D1	FIXED	14' - 9"	4' - 6"	17' - 0"	ALUM	FF	4/A8.30	2/A8.30	1/A8.30	GL-2	0.58	0.41	0.42			
GYMNASIUM	202.4	D1	FIXED	14' - 9"	4' - 6"	17' - 0"	ALUM	FF	4/A8.30	3/A8.30, 2/A8.30	1/A8.30	GL-2	0.58	0.41	0.42			
GYMNASIUM	202.5	D2	FIXED / AWNING	14' - 9"	3' - 0"	18' - 6"	ALUM	FF	4/A8.30	3/A8.30	1/A8.30	GL-2	0.58	0.41	0.32 / 0.42	X	MOTORIZED ROLLER BLINDS	OPEN/ CLOSE SENSOR
GYMNASIUM	202.6	D1	FIXED	14' - 9"	3' - 0"	18' - 6"	ALUM	FF	4/A8.30	2/A8.30	1/A8.30	GL-2	0.58	0.41	0.42		MOTORIZED ROLLER BLINDS	
GYMNASIUM	202.7	D1	FIXED	14' - 9"	3' - 0"	18' - 6"	ALUM	FF	4/A8.30	2/A8.30	1/A8.30	GL-2	0.58	0.41	0.42		MOTORIZED ROLLER BLINDS	
GYMNASIUM	202.8	D2	FIXED / AWNING	14' - 9"	3' - 0"	18' - 6"	ALUM	FF	4/A8.30	3/A8.30, 2/A8.30	1/A8.30	GL-2	0.58	0.41	0.32 / 0.42	X	MOTORIZED ROLLER BLINDS	OPEN/ CLOSE SENSOR

1



1 WINDOW TYPES
1/4" = 1'-0"

FINISH SCHEDULE

ROOM #	ROOM NAME	FLOOR	BASE	BASE DIM	WALLS	CEILING	COMMENTS
101	LOBBY	TL-5	WD, PTD	4"	2 WD-2 GYP BD PTD	WD-1	
102	GYMNASIUM	(E) WD FLOORING, REFINISHED AND RESTRIPED	VENTED RUBBER	6"	GYP BD PTD, ATHLETIC WALL PADDING	PET	
103	CONFERENCE ROOM	CPT	WD, PTD	4"	GYP BD PTD	ACT-1	
104	OFFICE	LIN	WD, PTD	4"	GYP BD PTD	ACT-1	
106	SUPERVISOR	CPT	WD, PTD	4"	GYP BD PTD	ACT-1	
107	HALLWAY	TL-5	WD, PTD	4"	GYP BD PTD	WD-1 2	
108	ALL GENDER	TL-6	TL-6, COVED	4"	TL-4, GYP BD ABOVE	GYP BD PTD	
109	SHOWER	TL-6	TL-6, COVED	4"	TL-4, GYP BD ABOVE	GYP BD PTD	
110	WOMENS	TL-6	TL-6, COVED	4"	TL-3, GYP BD ABOVE	GYP BD PTD	
111	MENS	TL-6	TL-6, COVED	4"	TL-3, GYP BD ABOVE	GYP BD PTD	
112	STAFF UTILITY ROOM	TL-6	TL-6, COVED	4"	GYP BD PTD, FRP AT MOP SINK	GYP BD PTD	
113	STAFF RR	TL-6	TL-6, COVED	4"	TL-4, GYP BD ABOVE	GYP BD PTD	
114	HALLWAY	TL-5	WD, PTD	4"	GYP BD PTD	WD-1 2	
115	MUSIC BOOTH	LIN	WD, PTD	4"	GYP BD PTD	ACOUSTICALLY SUSPENDED GYP BD, PTD	
116	ENGINEERING ROOM	LIN	WD, PTD	4"	GYP BD PTD	ACOUSTICALLY SUSPENDED GYP BD, PTD	
117	HALL STORAGE	LIN	RUBBER	4"	GYP BD PTD		
118	UTIL	LIN	RUBBER	4"	GYP BD PTD		
119	COMPUTER ROOM	ATH	WD, PTD	4"	GYP BD PTD	ACT-2, GYP BD PTD	
120	LOUNGE	ATH	WD, PTD	4"	GYP BD PTD	ACT-2, GYP BD PTD	
121	COMMUNITY ROOM 1	ATH	WD, PTD	4"	PLAM UP TO 3'-0", GYP BD PTD ABOVE	ACT-2, GYP BD PTD	
122	COMMUNITY ROOM 2	ATH	WD, PTD	4"	PLAM UP TO 3'-0", GYP BD PTD ABOVE	ACT-2, GYP BD PTD	
124	GYM STORAGE	LIN	RUBBER	4"	GYP BD PTD		
125	STORAGE	LIN	RUBBER	4"	GYP BD PTD		
126	KITCHEN	RES	RES, COVED	4"	FRP	ACT-3	
127	ELEC.	LIN	RUBBER	4"	GYP BD PTD		
128	IT ROOM	LIN	RUBBER	4"	GYP BD PTD		

WINDOW SCHEDULE NOTES:

1. SAFETY GLAZING MUST BE PROVIDED AT HAZARDOUS LOCATIONS PER CBC 2406.4, INCLUDING BUT NOT LIMITED TO GLAZING WITHIN 24" OF DOOR EDGES AND GLAZING GREATER THAN 9 SF WITH A SILL LESS THAN 18" ABOVE THE WALKING SURFACE.
2. WINDOWS IDENTIFIED AS EMERGENCY EGRESS FOR SLEEPING ROOMS SHALL HAVE A NET CLEAR OPENING OF 5.7 SF, A MINIMUM CLEAR OPENING HEIGHT OF 24", A MINIMUM CLEAR OPENING WIDTH OF 20" AND HAVE THE CLEAR OPENING NOT MORE THAN 44" AFF AS REQ BY CBC 1031.3.
3. PROVIDE 4" LIMITER TO AWNING AND CASEMENT WINDOWS O/ WALKWAYS W/ SILL HEIGHT FROM 27"-80" ABOVE THE WALKING SURFACE PER CBC 11B-307.2.
4. PROVIDE METAL INSECT SCREENS AT ALL OPERABLE WINDOWS.
5. SEE SHEETS A8 SHEETS FOR TYPICAL FLASHING DETAILS.
6. ALL EXTERIOR WINDOWS TO BE DUAL-GLAZED WITH EXTERIOR TEMPERED PANE AS REQUIRED BY CBC 708A.2.1. SEE GLAZING TYPES FOR LOCATIONS OF LAMINATED GLAZING, SECURITY FILMS, AND OBSCURED GLAZING.
7. ALL INTERIOR WINDOWS TO BE SINGLE-GLAZED UNLESS OTHERWISE NOTED IN SCHEDULE.
8. VERIFY ALL DIMENSIONS IN FIELD PRIOR TO ORDER.
9. SEE ELEVATIONS FOR OPERABLE SASH LOCATIONS AND SWING DIRECTION.
10. SEE RCPs AND INTERIOR ELEVATIONS FOR FURTHER INFORMATION ON MOUNTING WINDOW COVERINGS.
11. ALL ACOUSTICALLY RATED WINDOWS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS, INCLUDING ALL RECOMMENDED SEALING AND FASTENING METHODS, TO ENSURE OPTIMAL ACOUSTIC PERFORMANCE.

LEGEND

ABBREVIATIONS

ALUM	ALUMINUM
CLR	CLEAR
FF	FACTORY FINISH
GL	GLASS
NR	NOT RATED
PTD	PAINTED
SDL	SIMULATED DIVIDED LITE
STL	STEEL
WD	WOOD

GLAZING SCHEDULE

GL-1	CLEAR GLASS, SINGLE PANE, TEMPERED
GL-2	CLEAR GLASS, DOUBLE PANE, TEMPERED
GL-3	CLEAR GLASS, DOUBLE PANE
GL-4	CLEAR GLASS & SPANDREL GLASS, DOUBLE PANE
GL-5	CLEAR GLASS & FROSTED GLASS, DOUBLE PANE
GL-6	CLEAR GLASS, ACOUSTIC

FINISH SCHEDULE NOTES

2

1. SEE CAL GREEN CHECKLIST ON SHEET G0.04 FOR VOC REQUIREMENTS OF INTERIOR FINISHES.
2. GYPSUM BOARD WALLS & CEILINGS AT RESTROOMS, SHOWER ROOM, MOP CLOSET, AND KITCHEN TO BE MOISTURE RESISTANT.
3. AT RESTROOMS WITH TILE AND GYPSUM BOARD WALLS, PROVIDE TILE OVER CEMENT BACKERBOARD BELOW 7'-0", AND WATER RESISTANT GYPSUM BOARD ABOVE 7'-0". AT SHOWER ENCLOSURE WALLS, CEMENT BACKERBOARD TO BE INSTALLED OVER WATERPROOF MEMBRANE AND WATER RESISTANT GYPSUM BOARD.
4. ALL GYPSUM BOARD WALLS TO BE PAINTED, TYP UON. SEE SPECIFICATIONS FOR PAINT FINISH ON VARIOUS SURFACES. ALL WALLS RECEIVING WALL COVERINGS SHALL BE PREPPED AND PAINTED, TYP UON.
5. EXIT LIGHTS, FIRE ALARM SENDING STATIONS AND FIRE EXTINGUISHER LOCATIONS SHALL NOT BE CONCEALED, IN WHOLE OR IN PART, BY ANY DECORATIVE MATERIAL. [CALIFORNIA CODE OF REGULATIONS, TITLE 19, DIV. 1, CHAPTER 1, SUBCHAPTER 1, ARTICLE 3, §3.08].
6. WALL, FLOOR AND CEILING SHALL NOT EXCEED THE FLAME SPREAD CLASSIFICATIONS IN CFC TABLE 803.13.
7. THERMAL AND ACOUSTICAL INSULATION SHALL COMPLY WITH CBC §720. [CBC §807.1]
8. INTERIOR FLOOR FINISH AND FLOOR COVERING MATERIALS SHALL COMPLY WITH CBC §804.4 THROUGH §804.4.1.
9. DECORATIVE MATERIALS AND TRIM INSTALLED IN BUILDINGS GOVERNED BY THE SFM SHALL COMPLY WITH THE PROVISIONS OF CBC §806.

FINISH SCHEDULE LEGEND

1

ACT-1	2X4 ACT
ACT-2	GEOMETRIC PATTERN ACT W/ TECHZONE
ACT-3	2X2 ACT MEETING USDA/FSIS REQUIREMENTS
WD-1	GEOMETRIC PATTERN WOOD CEILING PANELS
WD-2	GEOMETRIC PATTERN WOOD PANELS, SURFACE MOUNTED
TL-3	CERAMIC WALL TILE
TL-4	CERAMIC WALL TILE
TL-5	12" X 24" PORCELAIN FLOOR TILE
TL-6	PORCELAIN FLOOR TILE

ACOUSTIC PANELS

AP-1: 1" FABRIC WRAPPED TACKABLE ACOUSTIC PANEL
AP-2: 2" FABRIC WRAPPED TACKABLE ACOUSTIC PANEL
AP-3: 4" FABRIC WRAPPED TACKABLE ACOUSTIC PANEL
AP-4: 3/8" PET ACOUSTIC PANEL
AP-5: EXTERIOR METAL ACOUSTIC PANEL

DP-1: WOOD DIFFUSION PANEL
DP-2: PYRAMIDAL DIFFUSION PANEL

2

ABBREVIATIONS

ACT	ACOUSTIC CEILING TILE
ATH	FLUID APPLIED ATHLETIC FLOORING
CPT	CARPET TILE
FRP	FIBERGLASS REINFORCED PLASTIC PANEL
PET	PET SOUND ABSORBING PANEL
PLAM	PLASTIC LAMINATE
LIN	LINOLEUM FLOORING
RES	RESINOUS FLOORING
TL	TILE
WD	WOOD

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Issue Note: PERMIT RESUBMITTAL 03/07/25

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Specification No.:	#25-11695-C
Project ID:	YAP
Drawn by:	HL
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Plot Date:	
Scale:	As indicated

Sheet Title:

WINDOW AND FINISH SCHEDULE

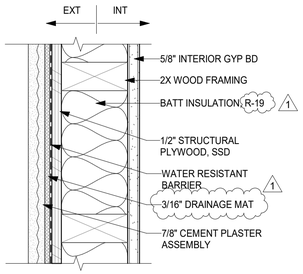
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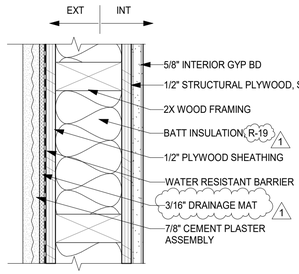
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EXTERIOR WALL TYPES

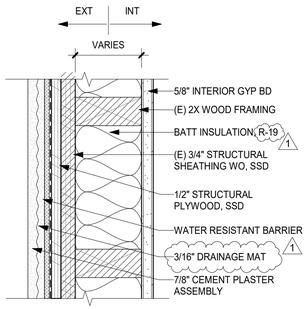
Z - CEMENT PLASTER FINISH



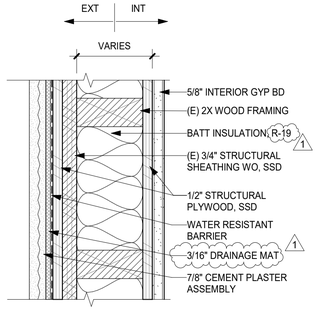
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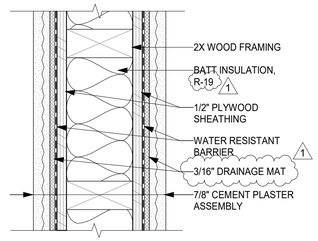
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W6-Z3
W4-Z3

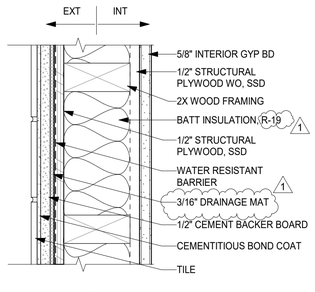


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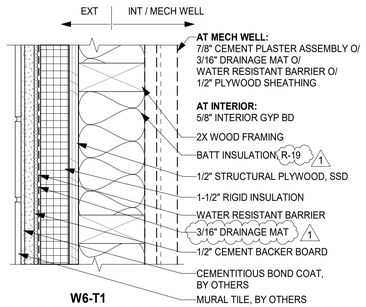


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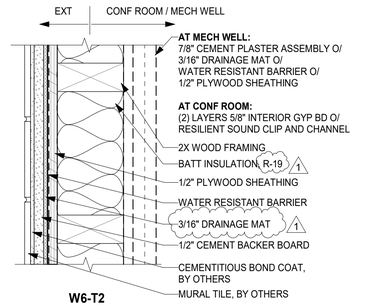
T - TILE FINISH



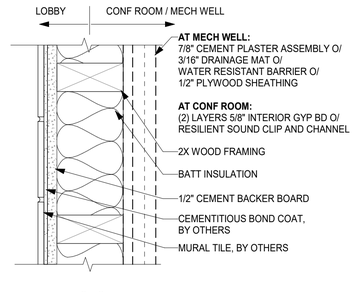
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W6-T1

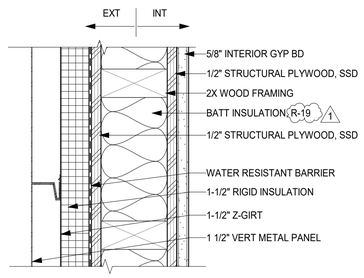


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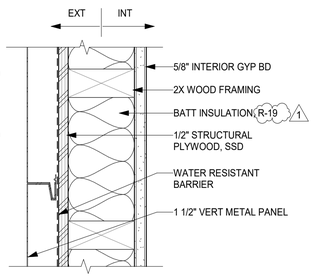


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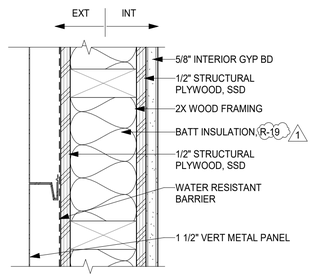
X - METAL PANEL



W6-X



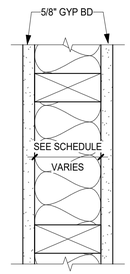
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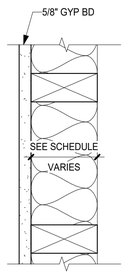
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INTERIOR WALL TYPES

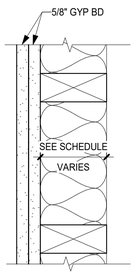
W - WOOD STUD WALLS



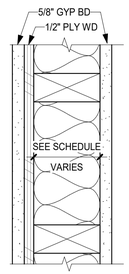
W4-A
W6-A
W8-A



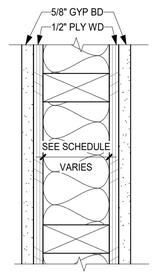
W4-C
W6-C



W4-E

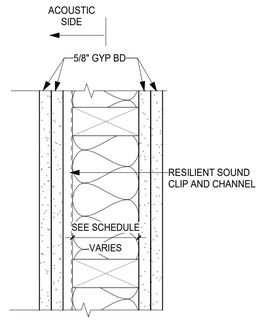


W4-F
W6-F

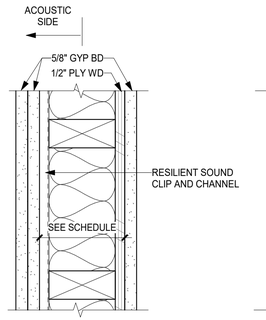


W4-G
W6-G

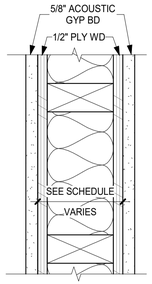
Q - ACOUSTIC RESILIENT CHANNEL



Q4-B
Q6-B



Q6-H



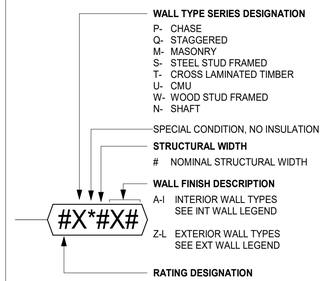
Q6-J

FOR ACOUSTICALLY RATED PARTITIONS:
JOINTS, GAPS AND PENETRATIONS MUST BE SEALED AIRTIGHT WITH ACOUSTICAL CAULKING, SEE 11/A9.02, 12/A9.02.
CAULK AND TAPE ALL JOINTS AND GAPS IN OUTER LAYERS OF GWB INCLUDING ALL PERIMETER EDGES

WALL SHEET NOTES:

1. PARTITION & WALL TYPES APPLY TO THE WHOLE WALL PLANE WHERE TAGGED, EVEN WHERE INTERRUPTED
2. SEE STRUCTURAL DRAWINGS FOR SHEAR PLYWOOD.
3. SEE FINISH SCHEDULE AND INTERIOR ELEVATIONS FOR APPLIED FINISH MATERIALS (GYP BD, TILE, ETC)
4. PROVIDE FURRING OR ADDITIONAL LAYERS OF GYP BD OR PLYWOOD AT WALLS ADJACENT TO STRUCTURAL SHEAR WALLS AND FIRE RATED WALLS TO MAINTAIN ALIGNMENT OF FINISHES.
5. USE WATER RESISTANT INTERIOR GYP BD PANELS AT ALL RESTROOMS, JANITOR'S CLOSET, AND SHOWER ROOM, UON
6. ALL GYP BD USED IN THIS PROJECT SHALL BE 5/8" TYPE 'X'.
7. THERMAL AND ACOUSTIC INSULATION SHALL HAVE NO ADDED FORMALDEHYDE
8. REFER TO UL OR CBC LISTING FOR TYPE AND SPACING OF FASTENERS AT RATED ASSEMBLIES

WALL TAG LEGEND



INTERIOR WALLS SCHEDULE

TYPE	FIRE RTG	OVERALL WIDTH	RATING LISTING	ACOUSTIC RTG	STRUCTURAL CORE (SEE LEGEND)
A SERIES					
W4-A	NR	4 3/4"			2X4 WD STUD
W6-A	NR	6 3/4"			2X6 WD STUD
W8-A	NR	8 1/2"			2X8 WD STUD
B SERIES					
W8-B	NR	9 3/4"			2X8 WD STUD
C SERIES					
W4-C	NR	4 1/8"			2X4 WD STUD
W6-C	NR	6 1/8"			2X6 WD STUD
E SERIES					
W4-E	NR	4 3/4"			2X4 WD STUD
F SERIES					
W4-F	NR	5 1/4"			2X4 WD STUD
W6-F	NR	7 1/4"			2X6 WD STUD
G SERIES					
W4-G	NR	5 3/4"			2X4 WD STUD
W6-G	NR	7 3/4"			2X6 WD STUD
Q SERIES					
Q4-B	NR	6 1/2"		STC 62	2X6 WD STUD W/ RESILIENT CHANNEL
Q6-B	NR	8 1/2"		STC 62	2X6 WD STUD W/ RESILIENT CHANNEL
Q6-H	NR	8 3/8"		STC 52	2X6 WD STUD W/ RESILIENT CHANNEL
Q6-J	NR	7 3/4"		STC 52	2X6 WD STUD W/ ACOUSTICAL GYP BD

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Consultant:

Stamp:

LICENSED ARCHITECT
KAREN RICHARDS
No. C-32146
Exp: 08-31-25
STATE OF CALIFORNIA

No.	Description	Date
	PERMIT SET	12/04/24
1	PLAN CHECK #1	03/07/25

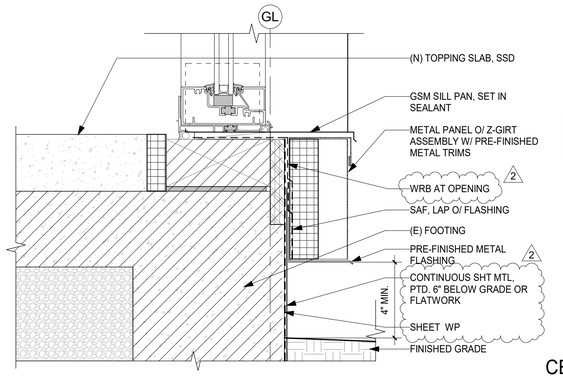
Issue Note: PERMIT RESUBMITTAL 03/07/25

City Plan No.:	8286
City File No.:	402-145
Specification No.:	#25-11695-C
Project ID:	YAP
Drawn by:	HL
Checked by:	KR
Plot Date:	
Scale:	As indicated

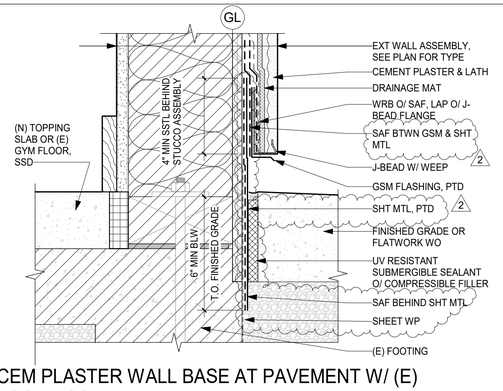
Sheet Title: WALL SCHEDULE

Sheet No.: A8.01

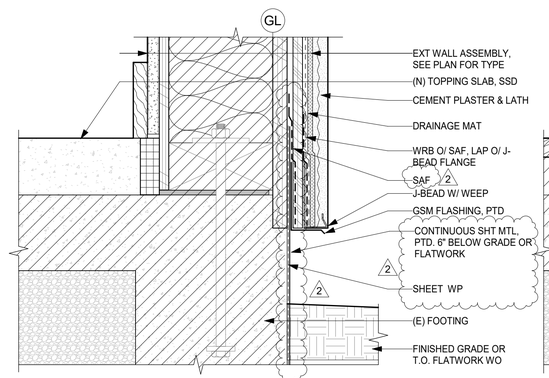
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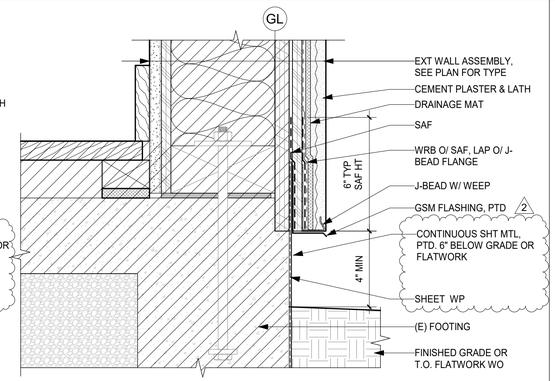
16 A8.10 MTL SIDING WALL BASE AT (E) FOOTINGS
3" = 1'-0"



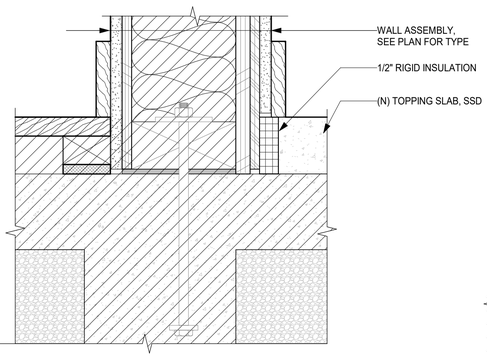
12 A8.10 CEM PLASTER WALL BASE AT PAVEMENT W/ (E) FOOTINGS
3" = 1'-0"



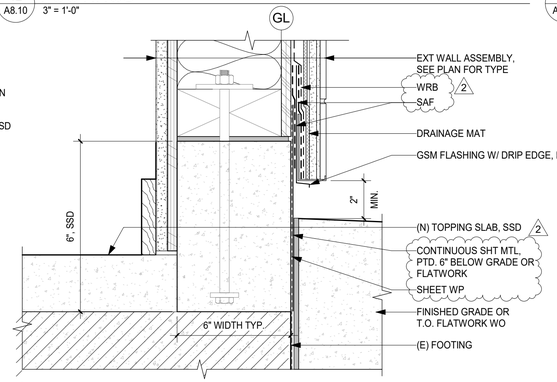
8 A8.10 CEM PLASTER WALL BASE AT (E) FOOTINGS
3" = 1'-0"



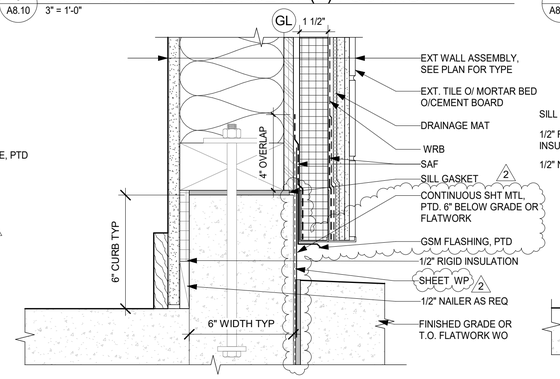
4 A8.10 CEM PLASTER WALL BASE AT GYM WALL
3" = 1'-0"



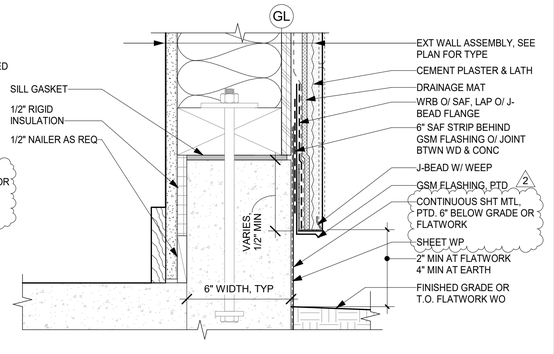
15 A8.10 INT WALL BASE AT (E) FOOTINGS
3" = 1'-0"



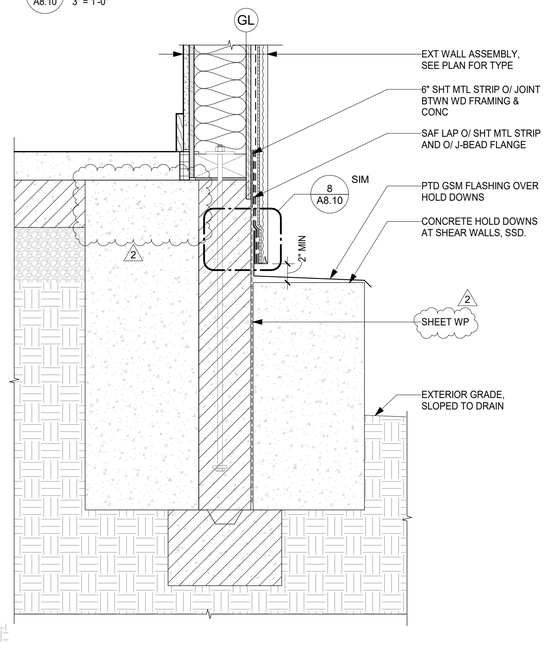
11 A8.10 TILE / CEM PLASTER WALL BASE AT (E) SLAB
3" = 1'-0"



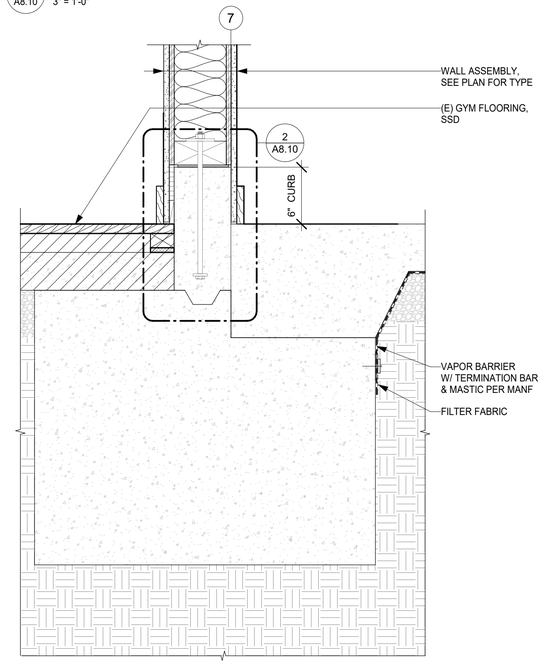
7 A8.10 TILE & CONT. INSUL. WALL BASE W/ CONC CURB
3" = 1'-0"



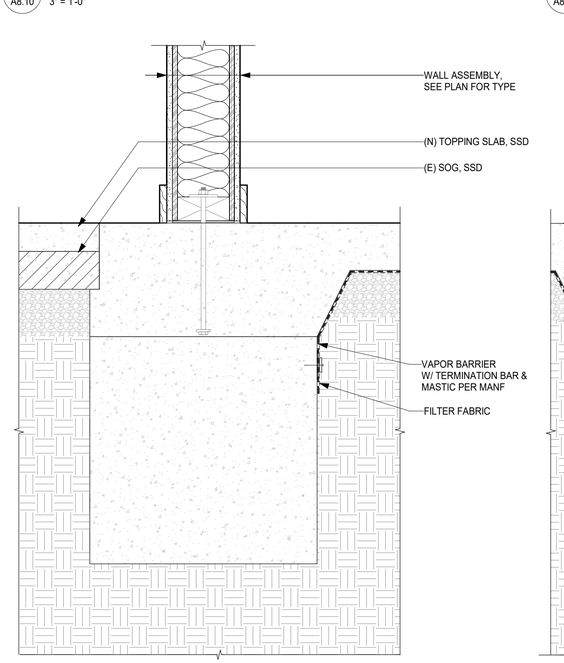
2 A8.10 CEM PLASTER WALL BASE W/ CONC CURB
3" = 1'-0"



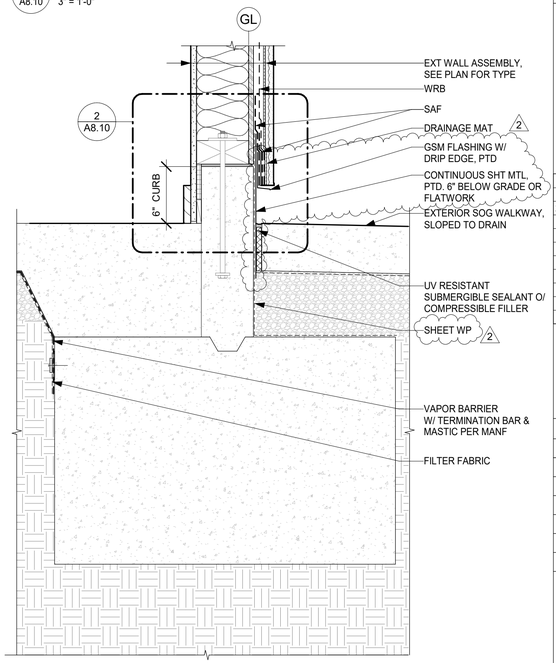
13 A8.10 (E) EXTERIOR FOOTINGS AT EXPOSED HOLD DOWNS
1 1/2" = 1'-0"



9 A8.10 NEW INT. FOOTINGS @ GYM WALL
1 1/2" = 1'-0"



5 A8.10 NEW INT. FOOTINGS BETWEEN (E) AND (N) SLABS
1 1/2" = 1'-0"



1 A8.10 NEW EXTERIOR FOOTINGS
1 1/2" = 1'-0"

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No.	Description	Date
	PERMIT SET	12/04/24
2	COORDINATION	2/28/25

Issue Note: PERMIT RESUBMITTAL 03/07/25

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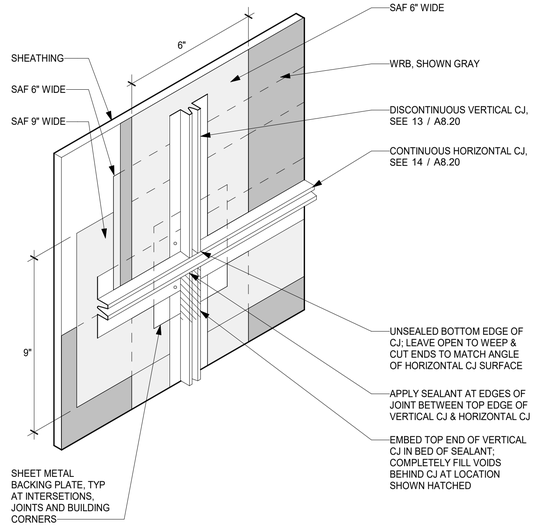
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FOUNDATION DETAILS

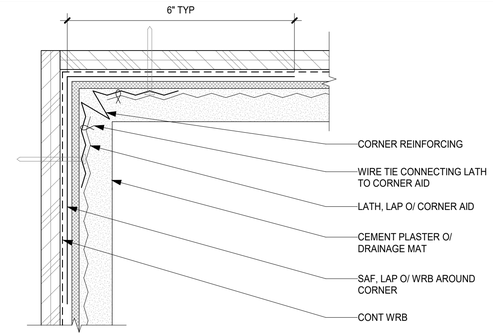
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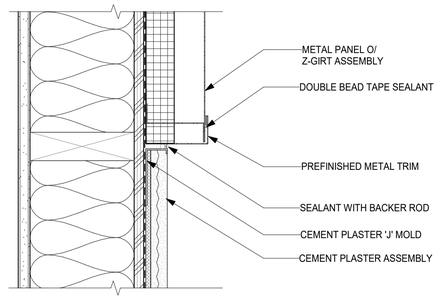
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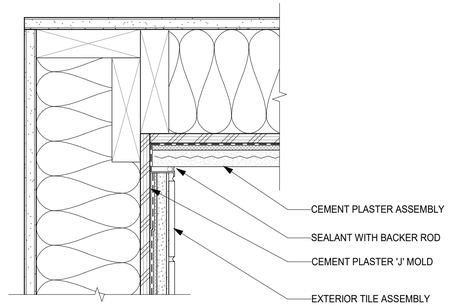
15 A8.20 STUCCO CONTROL JOINT INTERSECTION
3" = 1'-0"



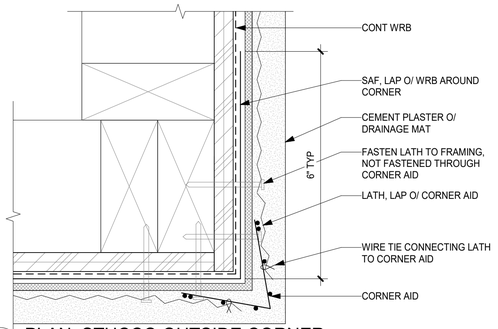
12 A8.20 PLAN: STUCCO INSIDE CORNER
6" = 1'-0"



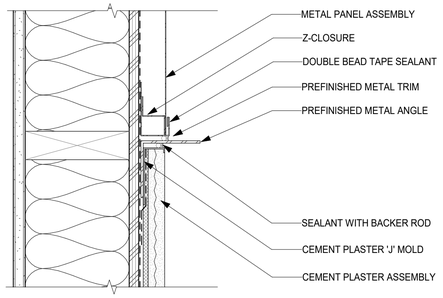
8 A8.20 PLAN: CEM PLASTER TO Z-GIRT MTL SIDING TRANSITION
3" = 1'-0"



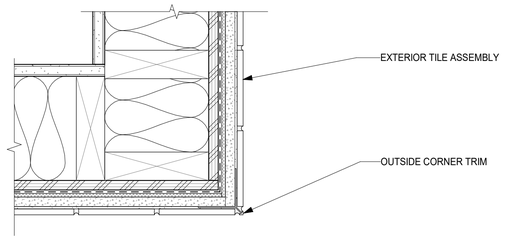
4 A8.20 PLAN: CEM PLASTER TO TILE INSIDE CORNER DTL
3" = 1'-0"



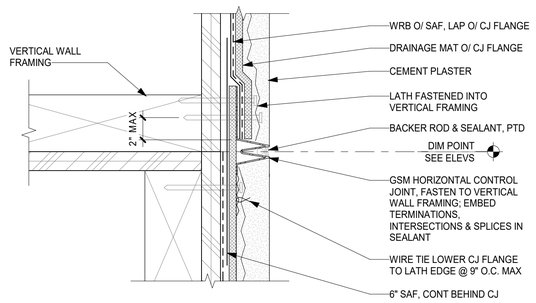
11 A8.20 PLAN: STUCCO OUTSIDE CORNER
6" = 1'-0"



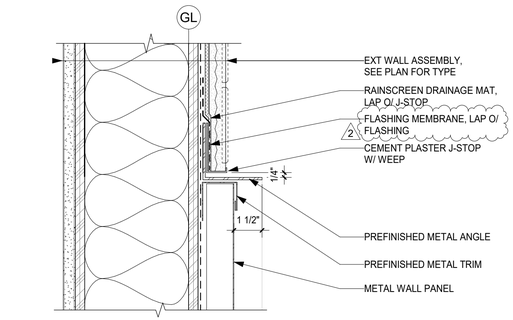
7 A8.20 PLAN: CEM PLASTER TO MTL SIDING TRANSITION
3" = 1'-0"



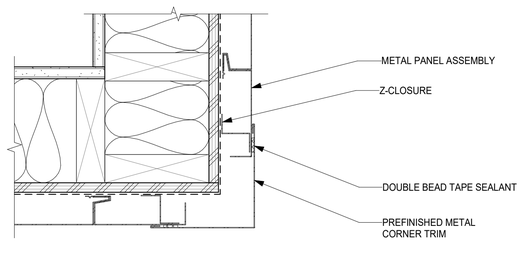
3 A8.20 PLAN: TILE OUTSIDE CORNER
3" = 1'-0"



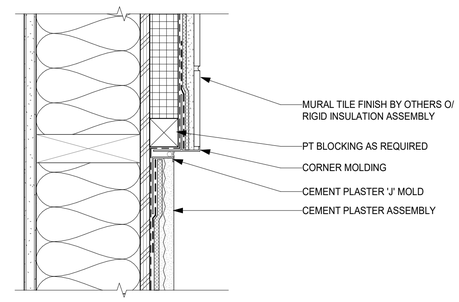
14 A8.20 SECTION: STUCCO HORIZ CONTROL JOINT
6" = 1'-0"



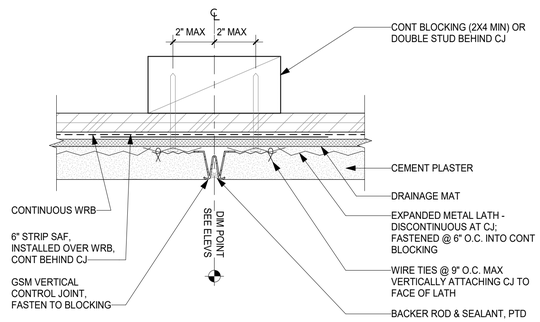
SECTION: TILE/ CEM PLASTER TO METAL SIDING TRANSITION DTL
10 A8.20 3" = 1'-0"



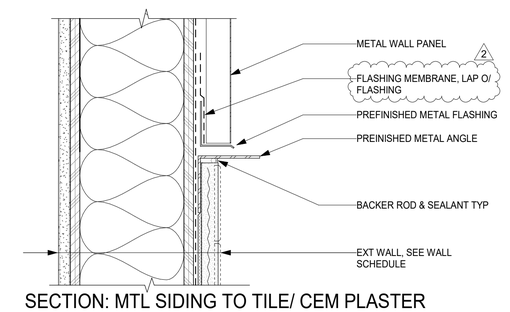
6 A8.20 PLAN: MTL SIDING OUTSIDE CORNER
3" = 1'-0"



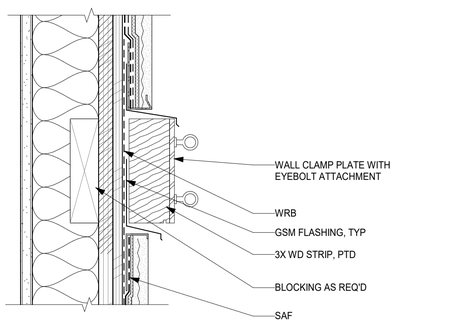
2 A8.20 PLAN: CEM PLASTER TO TILE TRANSITION
3" = 1'-0"



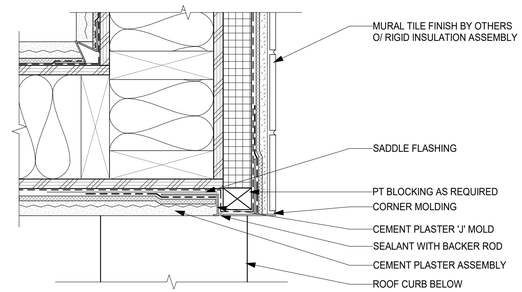
13 A8.20 PLAN: STUCCO VERT CONTROL JOINT
6" = 1'-0"



SECTION: MTL SIDING TO TILE/ CEM PLASTER TRANSITION DTL
9 A8.20 3" = 1'-0"



5 A8.20 SECTION: MOUNTING STRIP DETAIL
3" = 1'-0"



1 A8.20 PLAN: CEM PLASTER TO TILE OUTSIDE CORNER DTL
3" = 1'-0"

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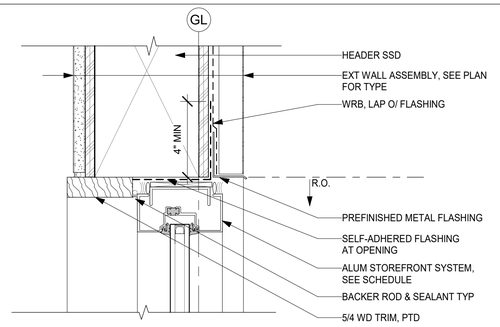
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City Plan No.:	8286
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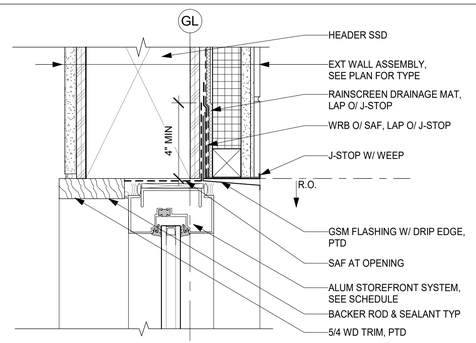
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EXTERIOR WALL DETAILS

Sheet No.:
A8.20

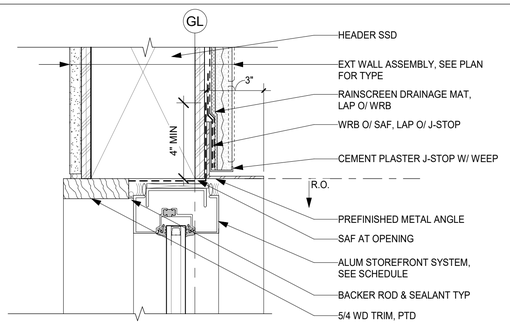
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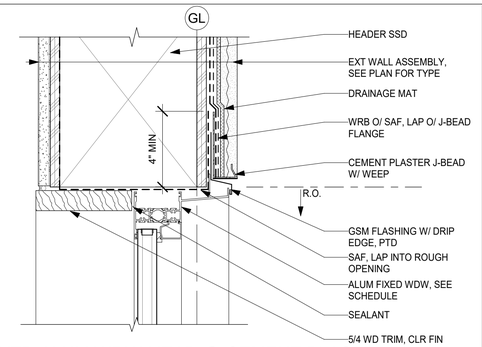
16 A8.30 ALUM SF HEAD @ MTL SIDING
3" = 1'-0"



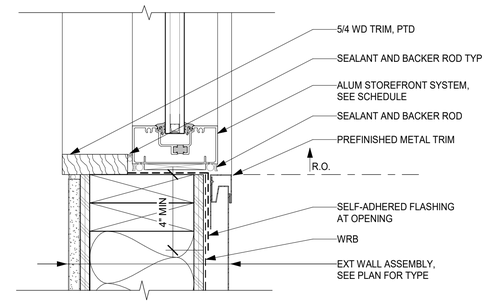
12 A8.30 ALUM SF HEAD @ TILE
3" = 1'-0"



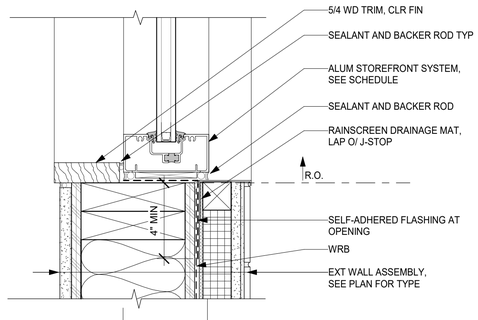
8 A8.30 ALUM SF HEAD W/ METAL ANGLE
3" = 1'-0"



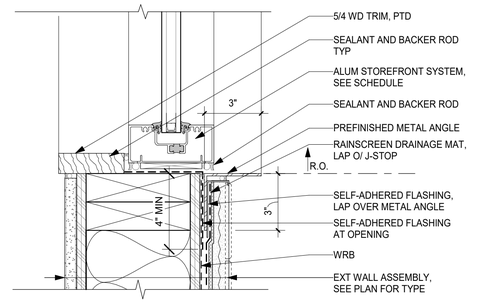
4 A8.30 FIXED ALUM WDW HEAD @ CEMENT PLASTER
3" = 1'-0"



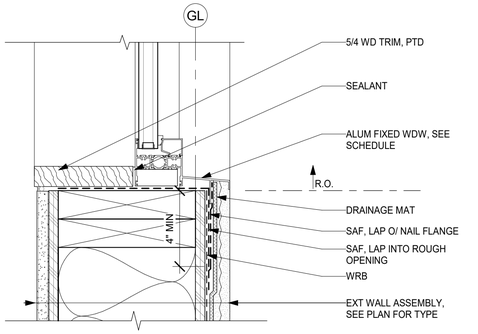
15 A8.30 ALUM SF JAMB @ MTL SIDING
3" = 1'-0"



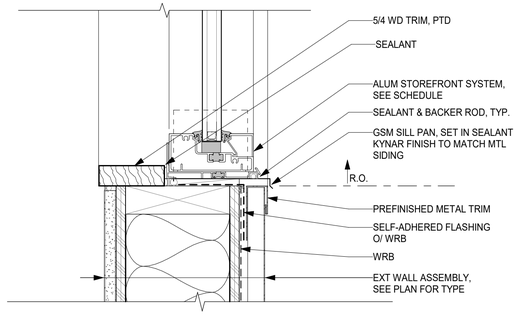
11 A8.30 ALUM SF JAMB @ TILE
3" = 1'-0"



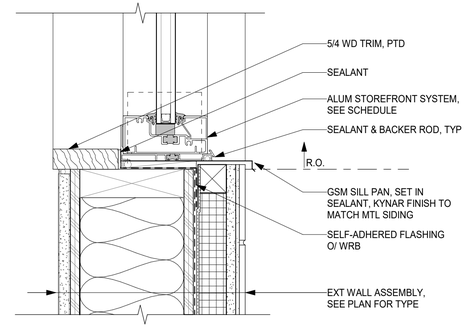
7 A8.30 ALUM SF JAMB W/ METAL ANGLE
3" = 1'-0"



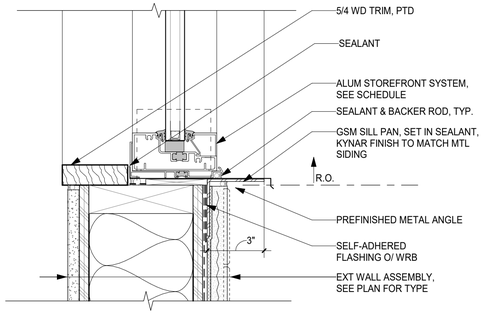
3 A8.30 FIXED ALUM WDW JAMB @ CEMENT PLASTER
3" = 1'-0"



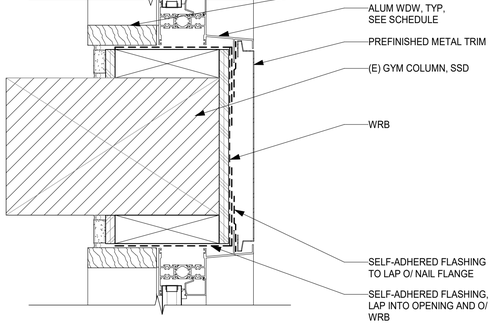
14 A8.30 ALUM SF SILL @ MTL SIDING
3" = 1'-0"



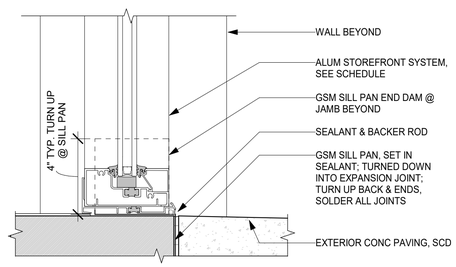
10 A8.30 ALUM SF SILL @ TILE
3" = 1'-0"



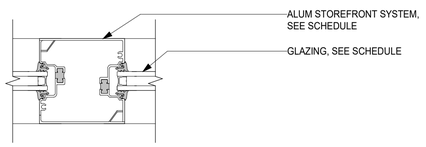
6 A8.30 ALUM SF SILL W/ METAL ANGLE
3" = 1'-0"



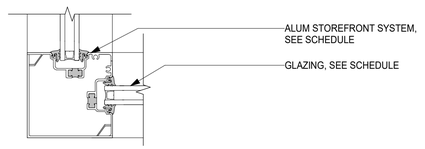
2 A8.30 FIXED ALUM WDW JAMB @ COLUMN
3" = 1'-0"



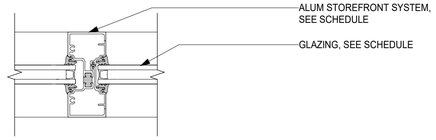
13 A8.30 ALUM SF SILL @ FULL-HEIGHT OPENING
3" = 1'-0"



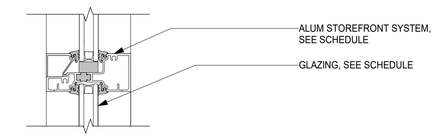
9B A8.30 STOREFRONT MULLION WIDE, VERTICAL
3" = 1'-0"



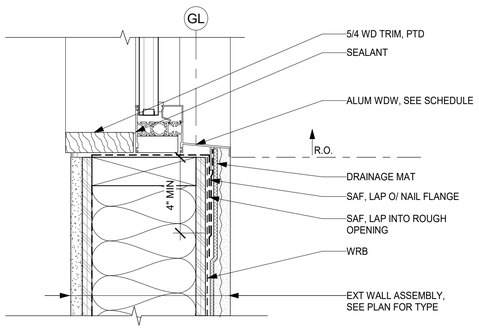
9A A8.30 STOREFRONT MULLION WIDE, CORNER
3" = 1'-0"



5B A8.30 STOREFRONT MULLION, TYP VERTICAL
3" = 1'-0"



5A A8.30 STOREFRONT MULLION, TYP HORIZONTAL
3" = 1'-0"



1 A8.30 FIXED ALUM WDW SILL @ CEMENT PLASTER
3" = 1'-0"

Project Title:

CITY OF BERKELEY
PARKS, RECREATION & WATERFRONT DEPARTMENT

MLK JR. YOUTH SERVICES CENTER / YAP SEISMIC RETROFIT AND RENOVATION

1730 Oregon Street, Berkeley, CA 94703
APN#: 053-1676-001-02

Design Firm:

SIEGEL & STRAIN Architects
6201 Doyle Street, Suite B
Emeryville, CA 94608
TEL 510 / 547-8092
info@siegelstrain.com

Consultant:

Stamp:

LICENSED ARCHITECT
KAREN RICHARDS
No. C-32146
Exp: 08-31-25
STATE OF CALIFORNIA

No.	Description	Date
	PERMIT SET	12/04/24

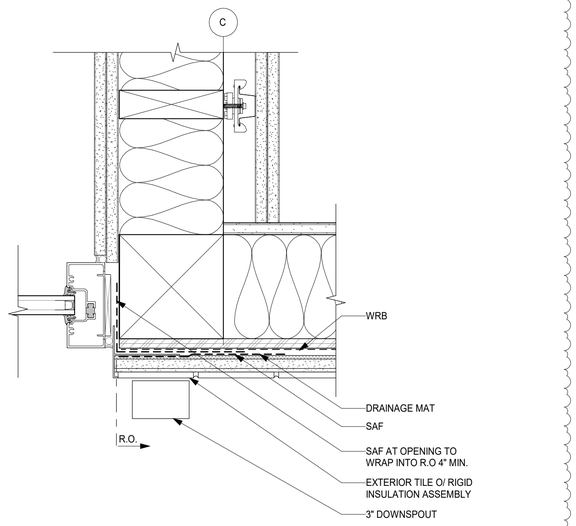
Issue Note: PERMIT RESUBMITTAL 03/07/25

City Plan No.:	8286
City File No.:	402-145
Specification No.:	#25-11695-C
Project ID:	YAP
Drawn by:	HL
Checked by:	KR
Plot Date:	
Scale:	3" = 1'-0"

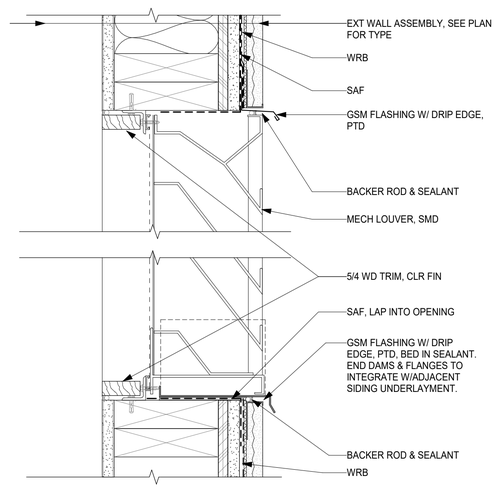
Sheet Title: EXTERIOR STOREFRONT & WINDOW DTLS

Sheet No.: A8.30

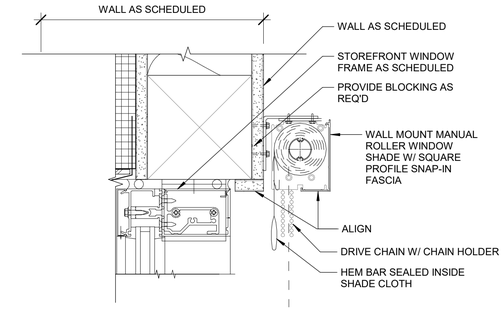
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6 A8.31 PLAN: TILE OUTSIDE CORNER
3" = 1'-0"

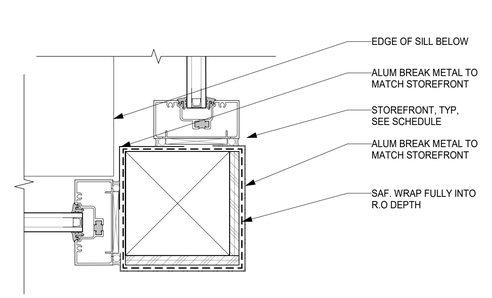


5 A8.31 TYP. MECH LOUVER PENETRATION
3" = 1'-0"

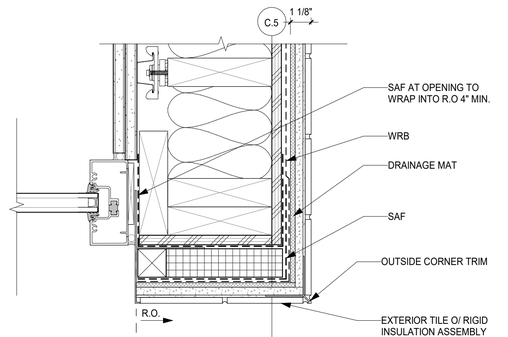


1. FOR EXTERIOR ASSEMBLY & FLASHING, SEE EXTERIOR DETAILS
2. POCKET MUST BE LEVEL & PARALLEL TO STOREFRONT
3. POCKET FASTENERS MUST NOT INTERFERE WITH BRACKET LOCATIONS

3 A8.31 WINDOW SHADE AT HEAD, TYPICAL
3" = 1'-0"



2 A8.31 STOREFRONT CORNER DETAIL ABOVE ENTRY DOOR
3" = 1'-0"



1 A8.31 PLAN: TILE OUTSIDE CORNER
3" = 1'-0"

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City Plan No.:	8286
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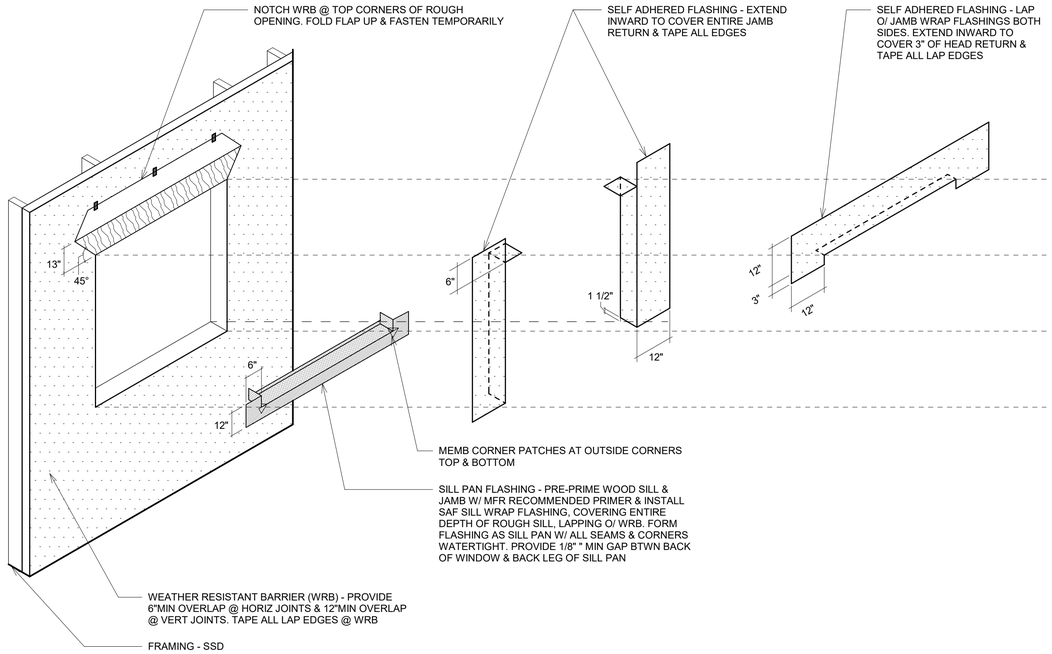
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EXTERIOR STOREFRONT & WINDOW DTLS

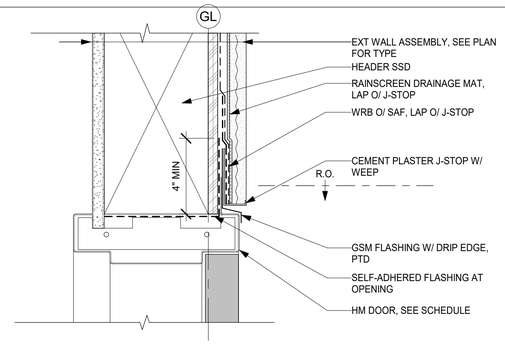
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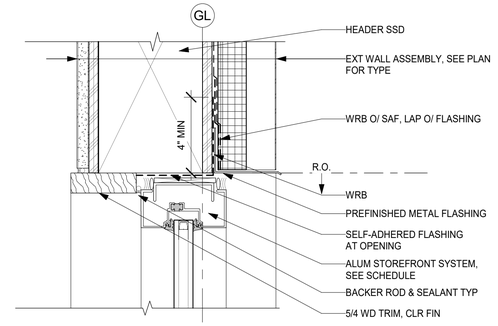
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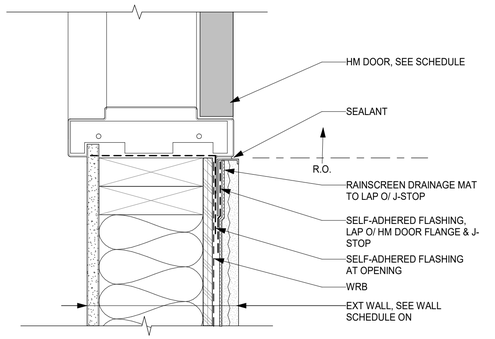
15 A8.32 STOREFRONT FLASHING DIAGRAM
1/4" = 1'-0"



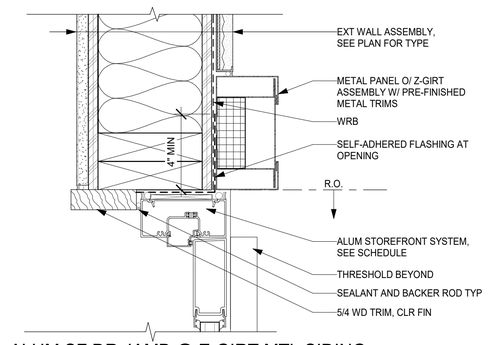
8 A8.32 HM DOOR HEAD @ CEMENT PLASTER
3" = 1'-0"



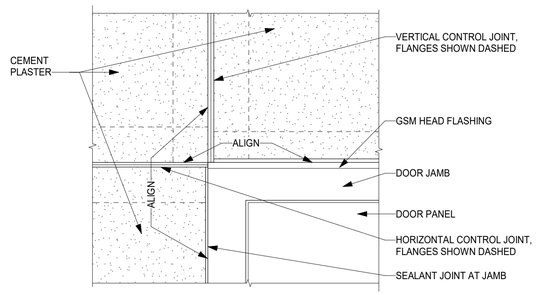
4 A8.32 ALUM SF HEAD @ Z-GIRT MTL SIDING
3" = 1'-0"



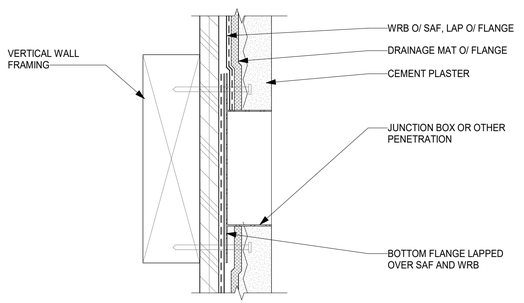
7 A8.32 HM DOOR JAMB @ CEMENT PLASTER
3" = 1'-0"



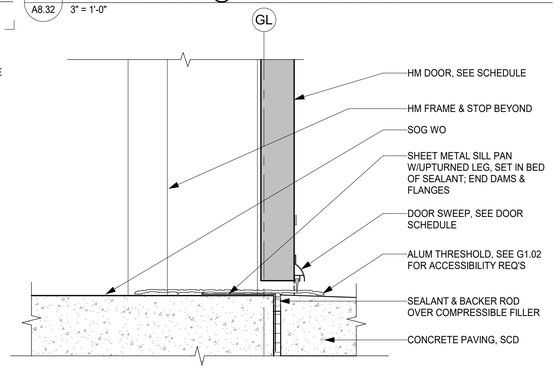
3 A8.32 ALUM SF DR JAMB @ Z-GIRT MTL SIDING
3" = 1'-0"



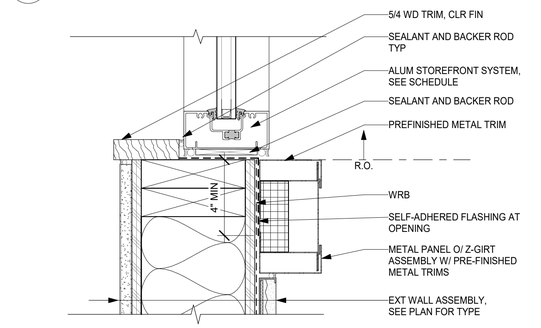
14 A8.32 ELEVATION DETAIL AT DOOR CORNER (WDW SIM)
3" = 1'-0"



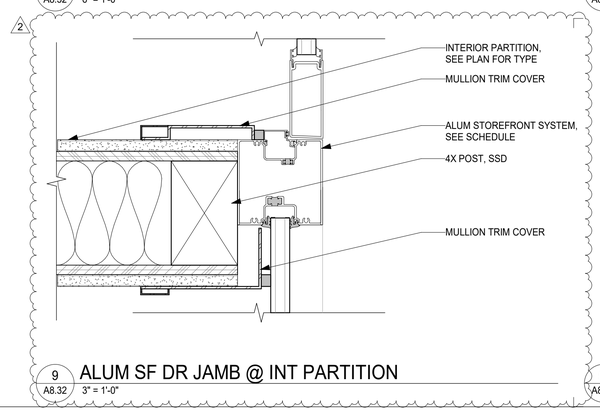
10 A8.32 STUCCO PENETRATION
6" = 1'-0"



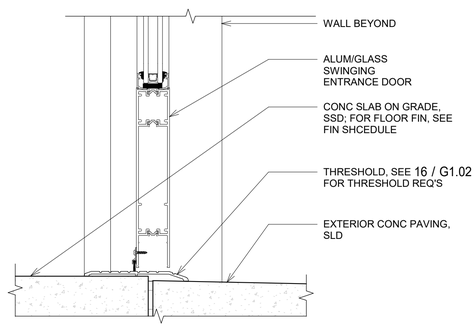
6 A8.32 HM DOOR THRESHOLD @ SOG
3" = 1'-0"



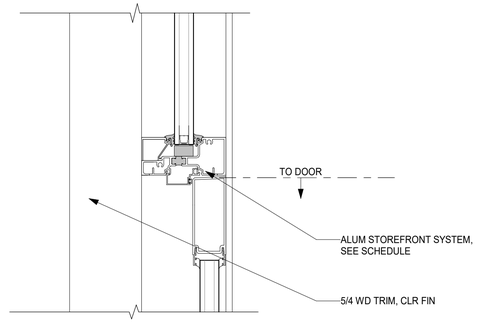
2 A8.32 ALUM SF JAMB @ Z-GIRT MTL SIDING
3" = 1'-0"



9 A8.32 ALUM SF DR JAMB @ INT PARTITION
3" = 1'-0"



5 A8.32 ALUM DR SILL
3" = 1'-0"



1 A8.32 ALUM DR HEAD @ TRANSOM
3" = 1'-0"

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No.	Description	Date
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Issue Note: PERMIT RESUBMITTAL 03/07/25

City Plan No.:	8286
City File No.:	402-145
Specification No.:	#25-11695-C
Project ID:	YAP
Drawn by:	HL
Checked by:	KR
Plot Date:	
Scale:	As indicated

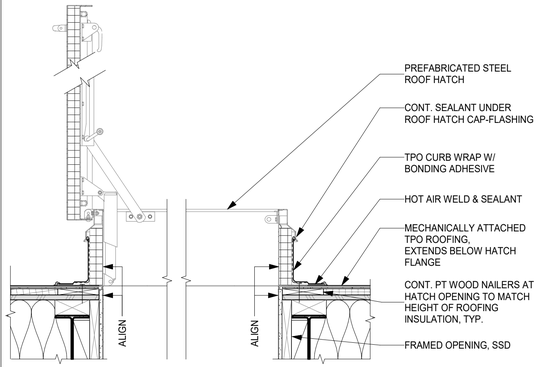
Sheet Title:

EXTERIOR DOOR AND WINDOW DETAILS

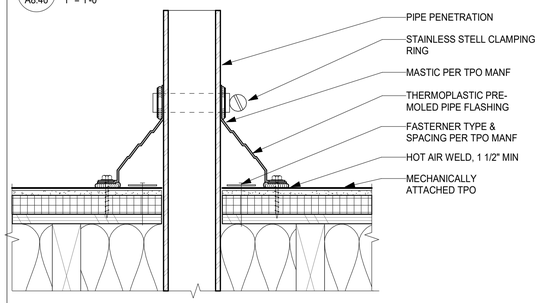
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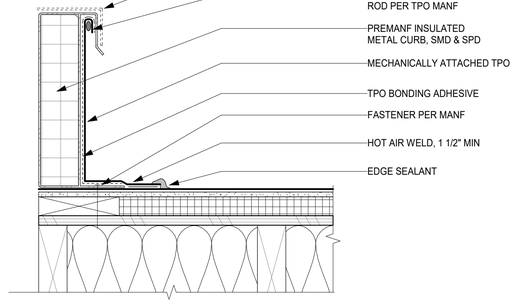
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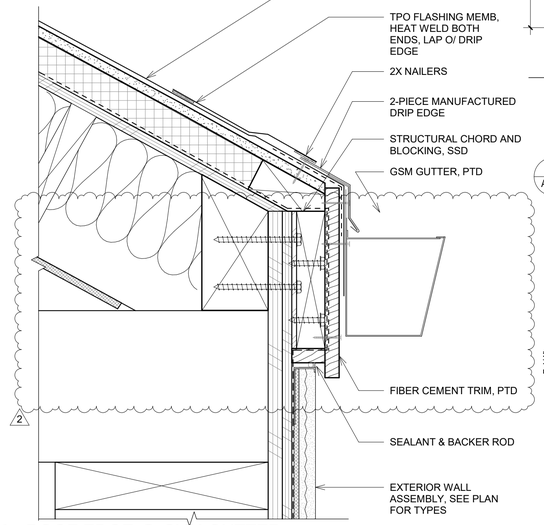
16 A8.40 ROOF ACCESS HATCH
1" = 1'-0"



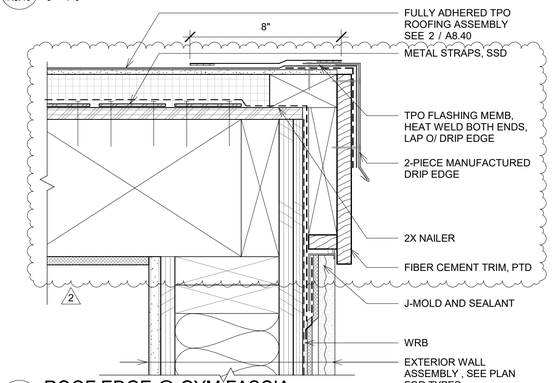
15 A8.40 TPO ROOF PIPE PENETRATION
3" = 1'-0"



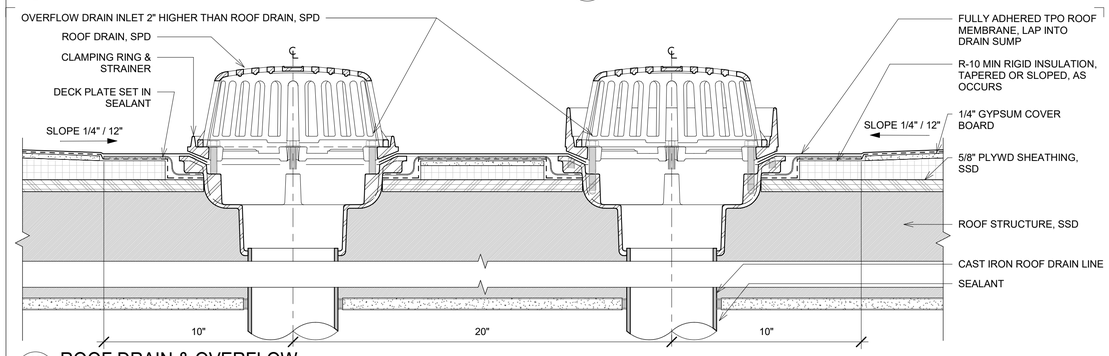
14 A8.40 TPO ROOF W/ PREMANUFACTURED MTL CURB
3" = 1'-0"



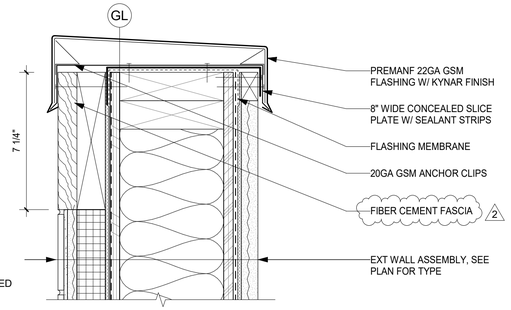
11 A8.40 ROOF EDGE @ GYM GUTTER
3" = 1'-0"



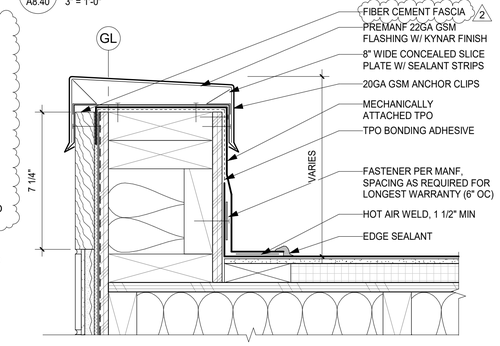
10 A8.40 ROOF EDGE @ GYM FASCIA
3" = 1'-0"



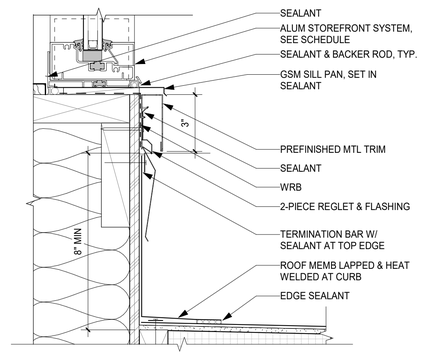
13 A8.40 ROOF DRAIN & OVERFLOW
3" = 1'-0"



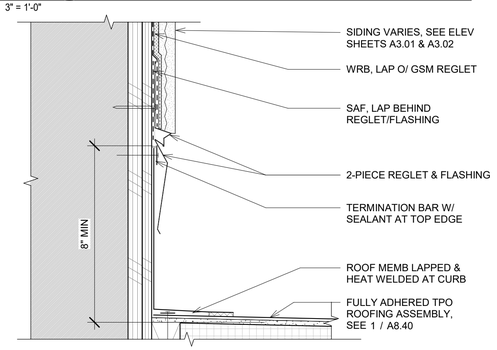
8 A8.40 PARAPET @ MECHANICAL WALL
3" = 1'-0"



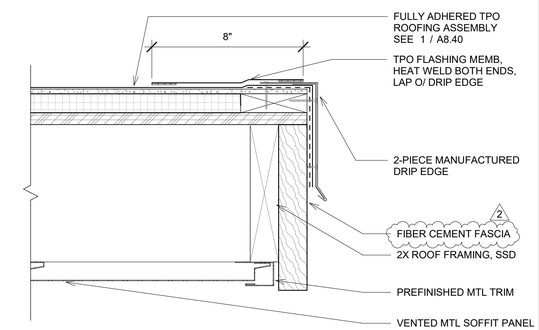
7 A8.40 ROOF EDGE TO TPO ROOF DECK TRANSITION
3" = 1'-0"



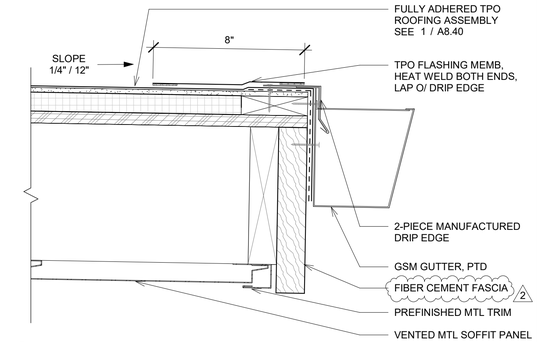
6 A8.40 ROOF @ MTL SIDING AND STOREFRONT
3" = 1'-0"



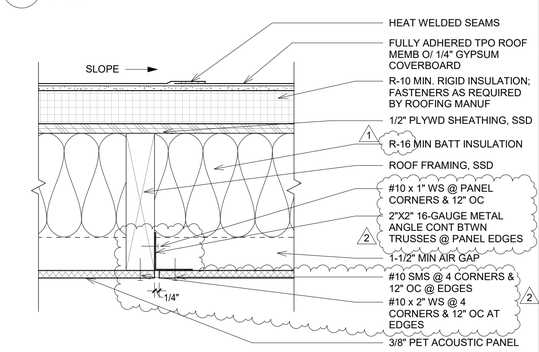
5 A8.40 ROOF @ STUCCO WALL FLASHING
3" = 1'-0"



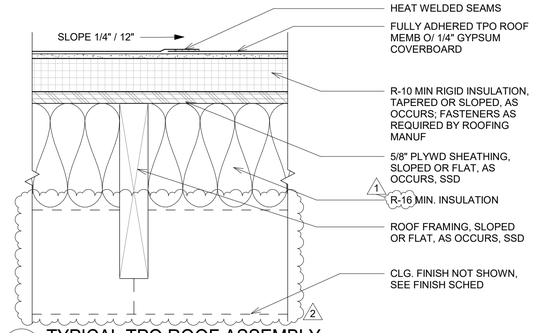
4 A8.40 ROOF EDGE @ EAVE FASCIA
3" = 1'-0"



3 A8.40 ROOF EDGE @ EAVE GUTTER
3" = 1'-0"



2 A8.40 TYPICAL GYM TPO ROOF ASSEMBLY
3" = 1'-0"



1 A8.40 TYPICAL TPO ROOF ASSEMBLY
3" = 1'-0"

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APN#: 053-1676-001-02

Design Firm:
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TEL 510 / 547-8092
info@siegelstrain.com

Consultant:

Stamp:

LICENSED ARCHITECT
KAREN RICHARDS
No. C-32146
Exp: 08-31-25
STATE OF CALIFORNIA

No.	Description	Date
	PERMIT SET	12/04/24
1	PLAN CHECK #1	03/07/25
2	COORDINATION	2/28/25

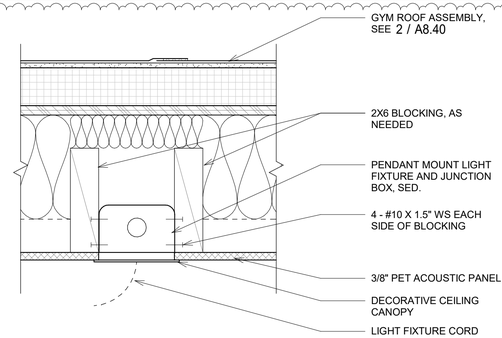
Issue Note: PERMIT RESUBMITTAL 03/07/25

City Plan No.:	8286
City File No.:	402-145
Specification No.:	#25-11695-C
Project ID:	YAP
Drawn by:	HL
Checked by:	KR
Plot Date:	
Scale:	As indicated

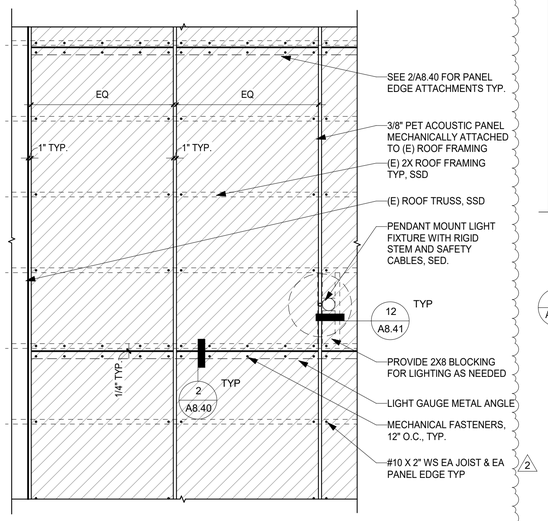
Sheet Title:
ROOF DETAILS

Sheet No.:
A8.40

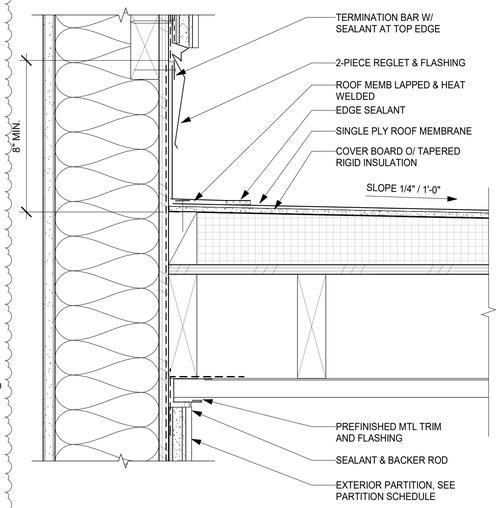
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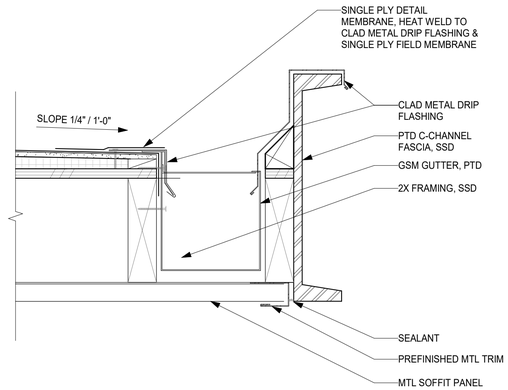
12 A8.41 TYPICAL GYM ROOF LIGHT FIXTURE
3" = 1'-0"

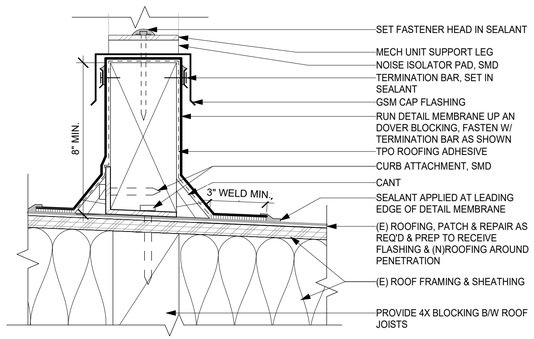


10 A8.41 GYM TYPICAL CEILING PANEL LAYOUT
1/2" = 1'-0"

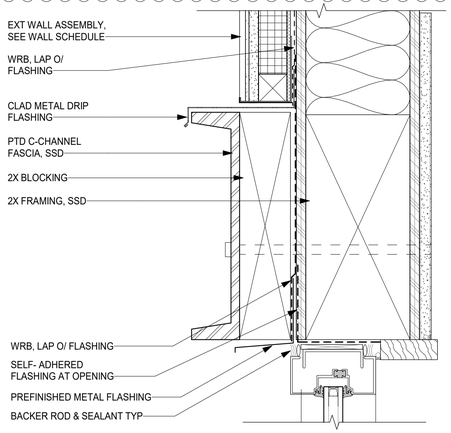


7 A8.41 ENTRY CANOPY CROSS SECTION
3" = 1'-0"

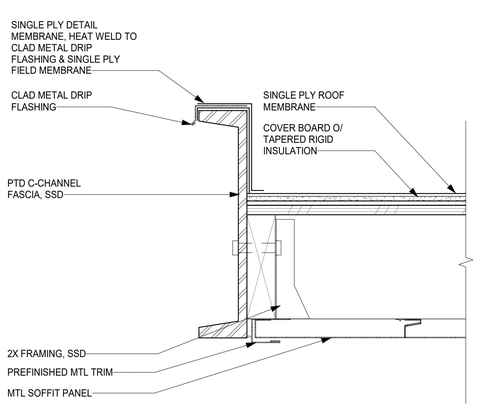




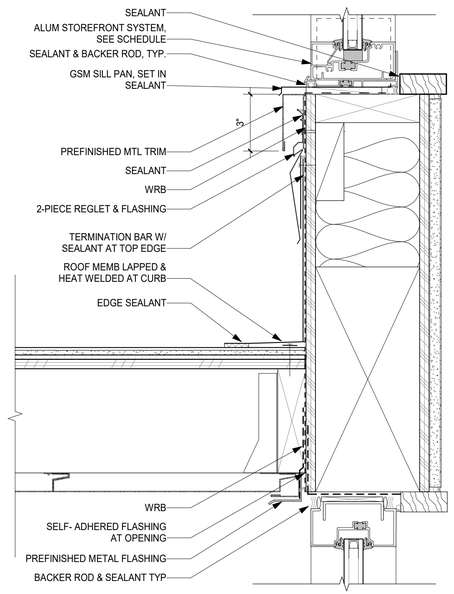
13 A8.41 MECHANICAL CURB AT ROOF
3" = 1'-0"



9 A8.41 ENTRY CANOPY SECTION
3" = 1'-0"



5 A8.41 ENTRY CANOPY SECTION
3" = 1'-0"



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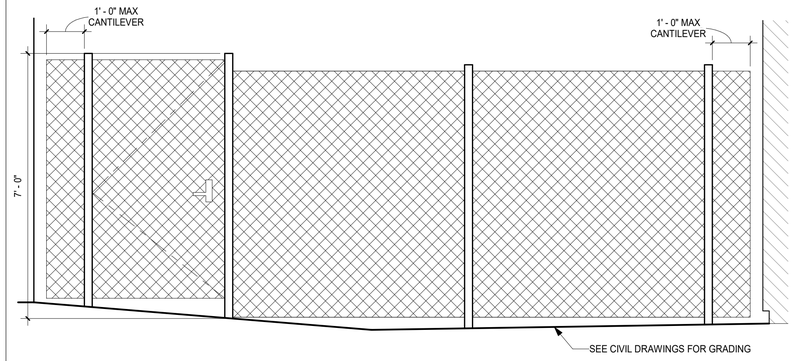
Issue Note: PERMIT RESUBMITTAL 03/07/25

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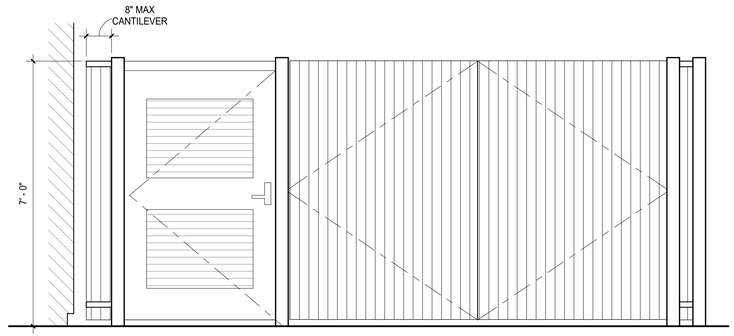
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ROOF DETAILS

Sheet No.:
A8.41

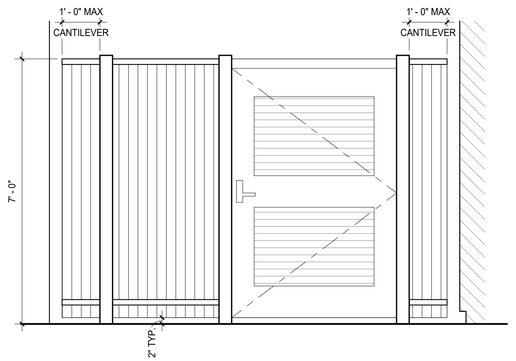
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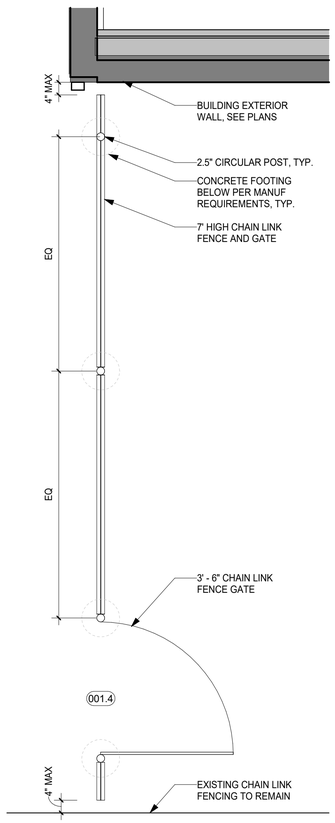
16 A8.50 BACKYARD FENCE - ELEVATION
1/2" = 1'-0"



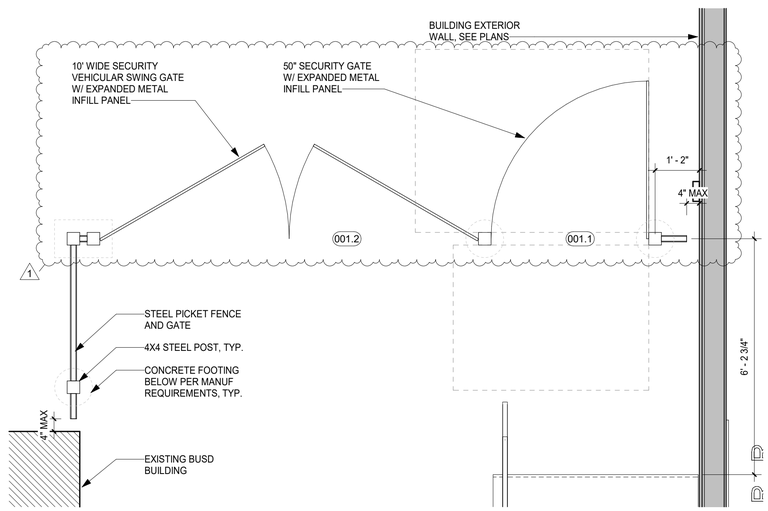
12 A8.50 OREGON ST VEHICLE AND PEDESTRIAN GATE - ELEVATION
1/2" = 1'-0"



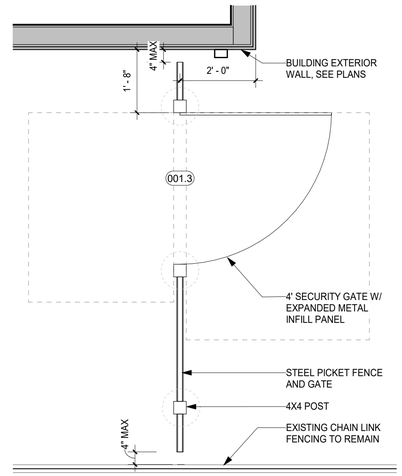
2 A8.50 GROVE PARK GATE AND FENCE - ELEVATION
1/2" = 1'-0"



13 A8.50 BACK YARD FENCE - PLAN
1/2" = 1'-0"



9 A8.50 OREGON ST VEHICLE AND PEDESTRIAN GATE - PLAN
1/2" = 1'-0"



1 A8.50 GROVE PARK GATE AND FENCE - PLAN
1/2" = 1'-0"

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Checked by:	KR
Plot Date:	
Scale:	1/2" = 1'-0"

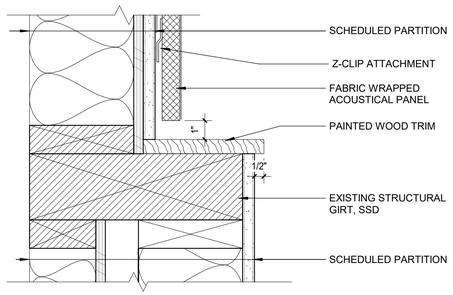
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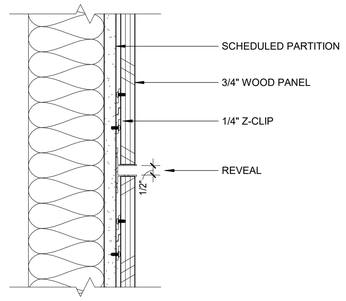
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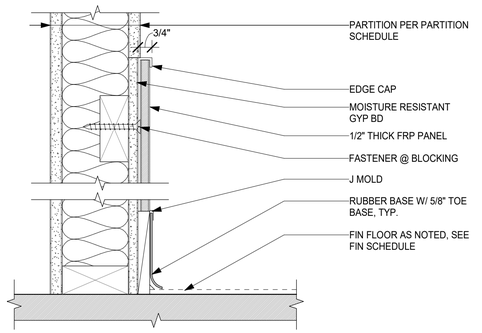
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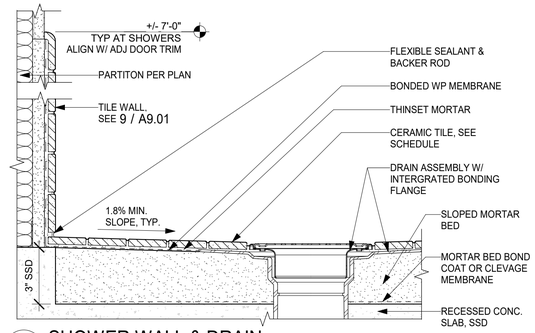
16 A9.01 FABRIC WRAPPED PANEL AT GYM GIRT
3" = 1'-0"



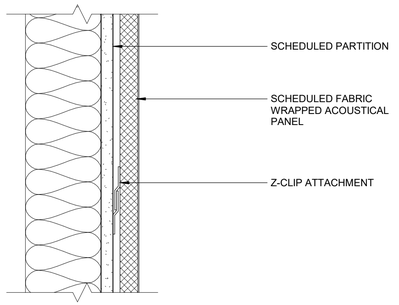
12 A9.01 WOOD WALL PANEL REVEAL
3" = 1'-0"



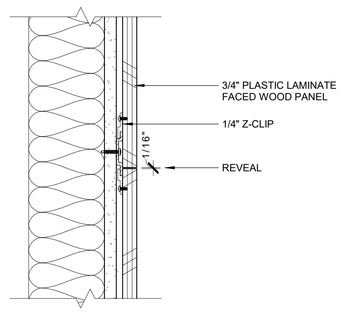
8 A9.01 BASE DETAIL - FRP WALL & RUBBER BASE
3" = 1'-0"



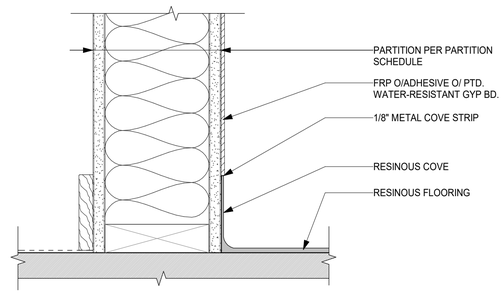
4 A9.01 SHOWER WALL & DRAIN
3" = 1'-0"



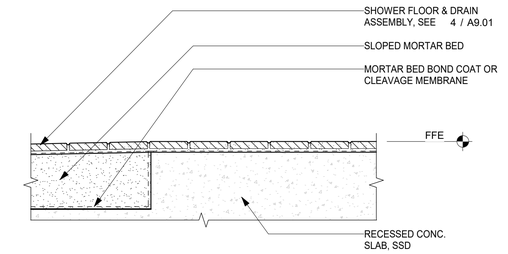
15 A9.01 FABRIC WRAPPED PANEL
3" = 1'-0"



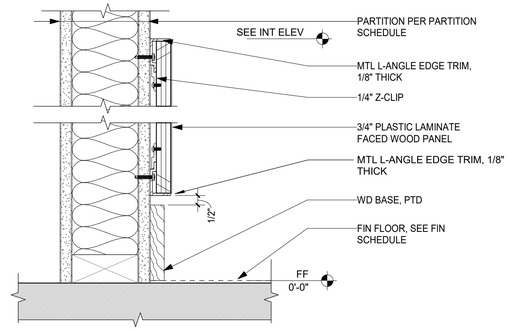
11 A9.01 PLASTIC LAMINATE WALL PANEL JOINT
3" = 1'-0"



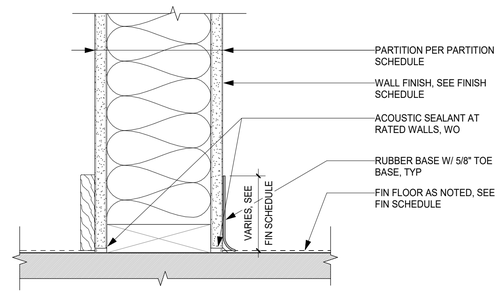
7 A9.01 BASEBOARD DETAIL - RESINOUS
3" = 1'-0"



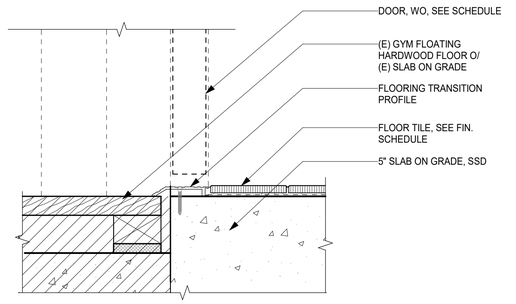
3 A9.01 CURBLESS SHOWER TILE FLOOR
3" = 1'-0"



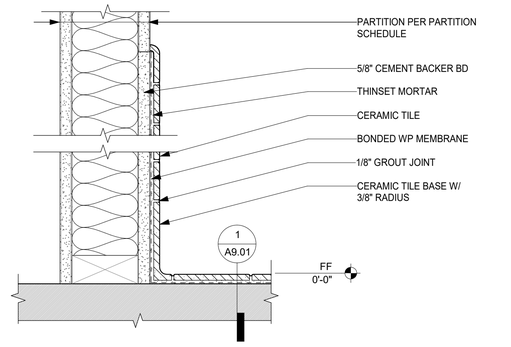
10 A9.01 PLASTIC LAMINATE WAINSCOT
3" = 1'-0"



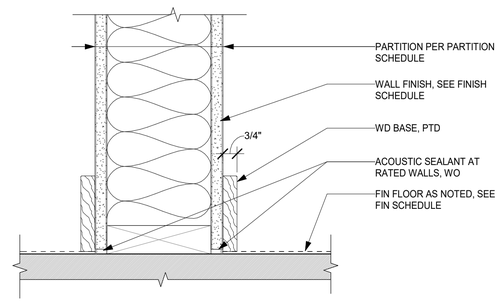
6 A9.01 BASEBOARD DETAIL - RUBBER
3" = 1'-0"



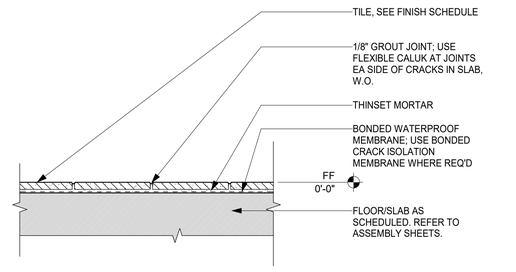
2 A9.01 FLOOR TRANSITION: TILE TO GYM FLOOR
3" = 1'-0"



9 A9.01 TILE WAINSCOT/BASE AT TILE FLOOR
3" = 1'-0"



5 A9.01 BASEBOARD DETAIL - WOOD
3" = 1'-0"



1 A9.01 TILE FLOOR
3" = 1'-0"

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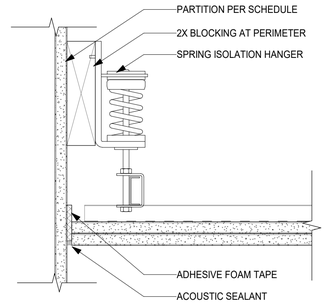
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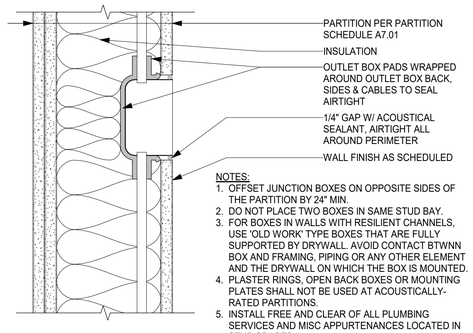
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INTERIOR DETAILS

Sheet No.:
A9.01

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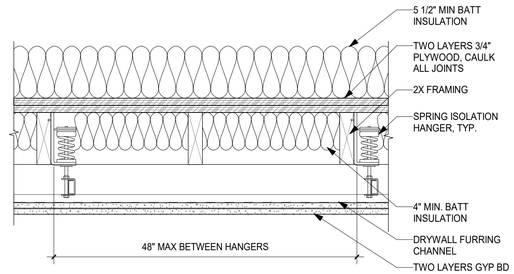


3 A9.02 ACOUSTIC ISOLATED CEILING @ WALL
3" = 1'-0"

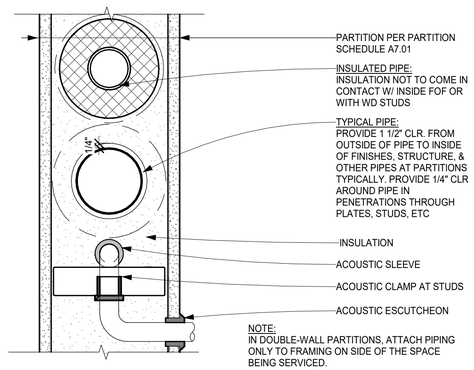


NOTES:
1. OFFSET JUNCTION BOXES ON OPPOSITE SIDES OF THE PARTITION BY 24" MIN.
2. DO NOT PLACE TWO BOXES IN SAME STUD BAY.
3. FOR BOXES IN WALLS WITH RESILIENT CHANNELS, USE 'OLD WORK' TYPE BOXES THAT ARE FULLY SUPPORTED BY DRYWALL. AVOID CONTACT BTWNN BOX AND FRAMING, PIPING OR ANY OTHER ELEMENT AND THE DRYWALL ON WHICH THE BOX IS MOUNTED.
4. PLASTER RINGS, OPEN BACK BOXES OR MOUNTING PLATES SHALL NOT BE USED AT ACOUSTICALLY-RATED PARTITIONS.
5. INSTALL FREE AND CLEAR OF ALL PLUMBING SERVICES AND MISC APPURTENANCES LOCATED IN STUD SPACES.

12 A9.02 ACOUSTIC PARTITION W/ OUTLET BOX
3" = 1'-0"

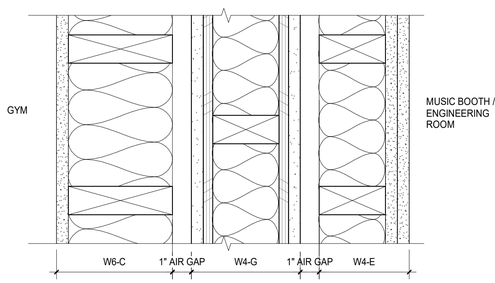


2 A9.02 ACOUSTIC ISOLATED CEILING
1 1/2" = 1'-0"



NOTE:
IN DOUBLE-WALL PARTITIONS, ATTACH PIPING ONLY TO FRAMING ON SIDE OF THE SPACE BEING SERVICED.

11 A9.02 ACOUSTIC PARTITION W/ PLUMBING
3" = 1'-0"



1 A9.02 GYM / MUSIC BOOTH ACOUSTIC WALL PLAN DTL
3" = 1'-0"

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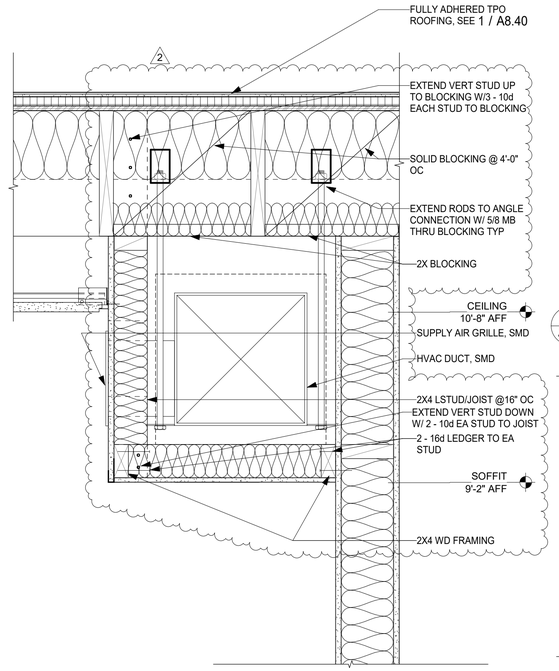
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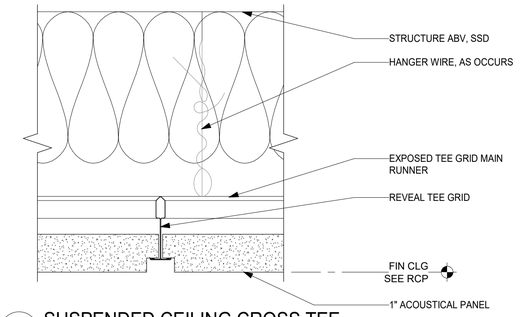
Sheet Title:
INTERIOR DETAILS

Sheet No.:
A9.02

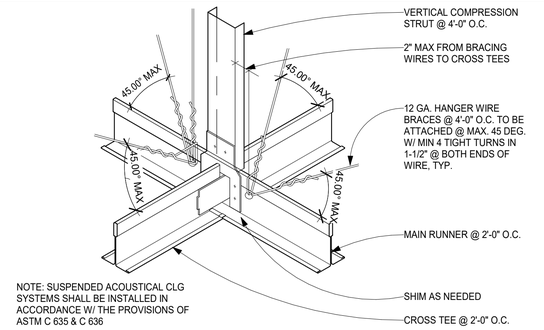
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11 A9.10 TYPICAL SOFFIT
1 1/2" = 1'-0"

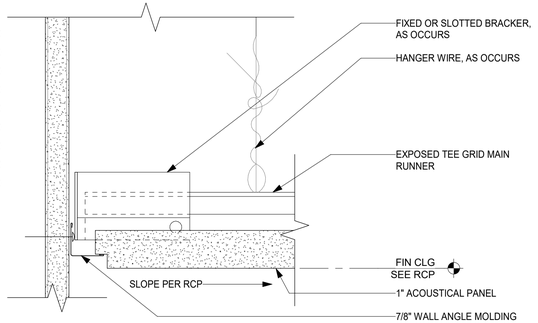


8 A9.10 SUSPENDED CEILING CROSS TEE
6" = 1'-0"

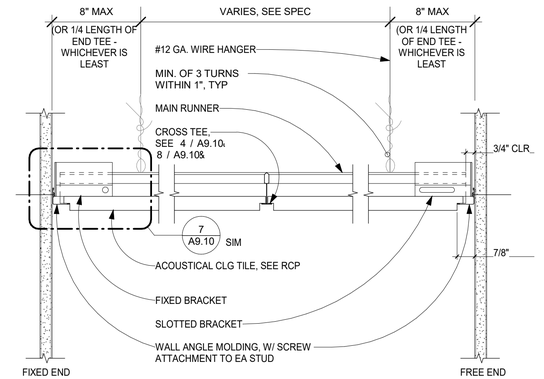


NOTE: SUSPENDED ACOUSTICAL CLG SYSTEMS SHALL BE INSTALLED IN ACCORDANCE W/ THE PROVISIONS OF ASTM C 635 & C 636

4 A9.10 SUSPENDED CEILING CROSS TEE DETAIL
3" = 1'-0"



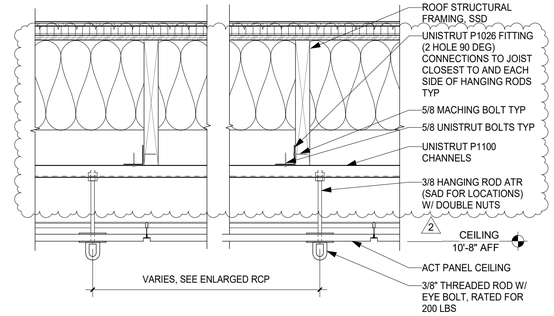
7 A9.10 SUSPENDED CEILING @ WALL
6" = 1'-0"



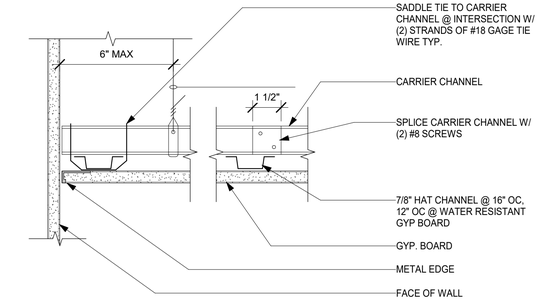
T-BAR GRID NOTES:

- THE SUSPENDED CEILING GRID MAY BE ATTACHED TO TWO ADJACENT WALLS BUT MUST NOT BE ATTACHED AT THE OTHER WALLS.
- THE SUSPENDED CEILING GRID IS NOT TO BE USED TO BRACE PARTITION WALLS UNLESS SPECIFICALLY DESIGNED FOR SUCH; THE GRID CANNOT BE PHYSICALLY ATTACHED TO THE WALL & THE WALL MUST BE BRACED INDEPENDENTLY TO THE STRUCTURE ABOVE.
- THE GRID MUST NOT BE USED FOR THE SUPPORT OR ATTACHMENT OF ANY MECHANICAL, PLUMBING, OR ELECTRICAL COMPONENTS OTHER THAN LIGHTS WITHIN THE SUSPENDED CEILING GRID.
- CEILING GRID CONNECTION TO WALL MUST BE LISTED AND APPROVED HARDWARE

2 A9.10 SUSPENDED CEILING T-BAR DETAIL
3" = 1'-0"

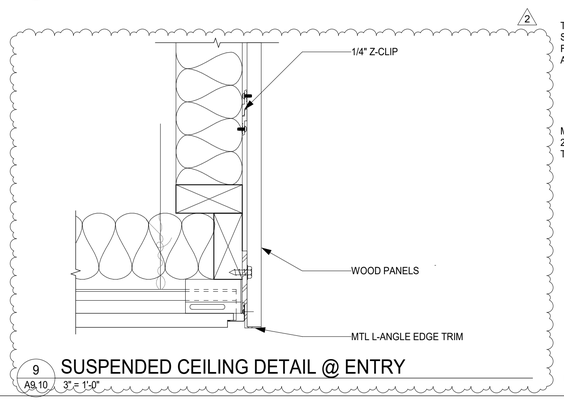


10 A9.10 TYPICAL CEILING ANCHOR THRU ACT CEILING
1 1/2" = 1'-0"

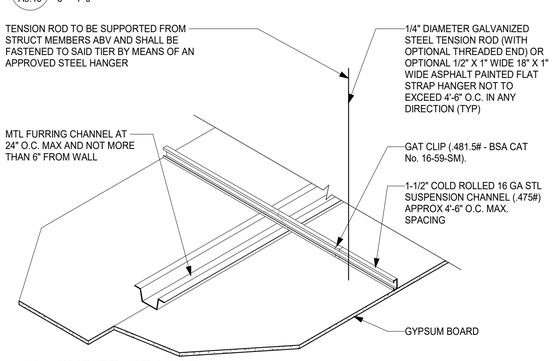


NOTE: SEE 5 / A9.10 FOR ADDITIONAL GYP BD CEILING INFORMATION

6 A9.10 SUSPENDED GYP BD CEILING @ WALL
3" = 1'-0"



9 A9.10 SUSPENDED CEILING DETAIL @ ENTRY
3" = 1'-0"



5 A9.10 GYP BD CEILING
3" = 1'-0"

SUSPENDED CEILING GENERAL NOTES:

1. INSTALL MAIN RUNNERS SO THAT THEY ARE LEVEL TO WITHIN 1/4 INCH IN 10 FEET (MEASURED BELOW HANGER POINTS). LOCAL KINKS OR BENDS SHALL NOT BE MADE IN HANGER WIRES AS A MEANS OF LEVELING THE MAIN RUNNER.
2. VERTICAL HANGER WIRES: TEST ONE OUT OF TEN CEILING ANCHORS FOR 200 POUNDS IN TENSION AT VERTICAL HANGER WIRES. IF ANY FAILS, TEST EACH ADJACENT HANGER WIRE.
3. LATERAL BRACING WIRES: TEST ONE OUT OF TWO CEILING ANCHORS FOR 400 POUNDS IN TENSION AT LATERAL BRACING WIRES. IF ANY FAILS, TEST EACH ADJACENT CEILING ANCHOR.
4. ALL INTERIOR WALL & CEILING FINISHES SHALL BE INSTALLED TO CLASS C FLAME SPREAD.
5. ALL CEILING LIGHT FIXTURES & HVAC AIR REGISTERS SHALL BE SUPPORTED BY A MINIMUM OF (2) HANGERS @ OPPOSITE CORNERS. CEILING SYSTEM SHALL NOT SUPPORT OTHER ITEMS.
6. SUSPENDED CEILING SHALL COMPLY WITH CBC SECTION 1616.10.16 AND ASCE 7-10 13.5.6.2.2; THE WIDTH OF THE PERIMETER SUPPORTING CLOSURE ANGLE OR CHANNEL SHALL BE NOT LESS THAN 2.0 INCH. WHERE THE PERIMETER SUPPORTING CLIPS ARE USED, THEY SHALL BE QUALIFIED IN ACCORDANCE WITH APPROVED TEST CRITERIA. IN EACH ORTHOGONAL HORIZONAL DIRECTION, ONE END OF THE CEILING GRID SHALL BE ATTACHED TO CLOSURE ANGLE OR CHANNEL. THE OTHER END IN EACH HORIZONTAL DIRECTION SHALL HAVE A 0.75 INCH CLEARENCE FROM THE WALL AND SHALL REST UPON AND BE FREE TO SLIDE ON A CLOSURE ANGLE OR CHANNEL.

1 A9.10 SUSPENDED CEILING NOTES
3" = 1'-0"

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No. C-32146
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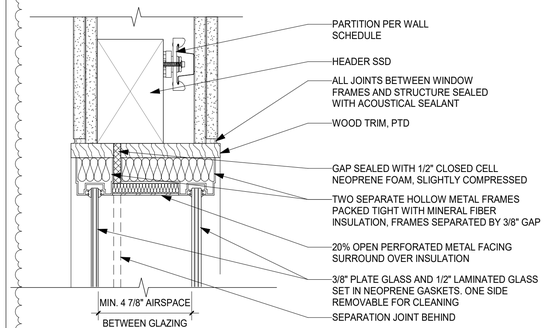
Issue Note: PERMIT RESUBMITTAL 03/07/25

City Plan No.:	8286
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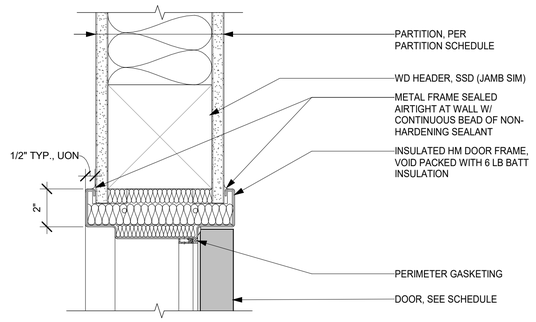
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INTERIOR CEILING DETAILS

Sheet No.:
A9.10

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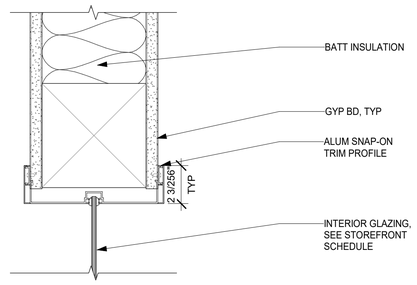


16 A9.20 ACOUSTICAL WINDOW HEAD (JAMB SIM)
3" = 1'-0"

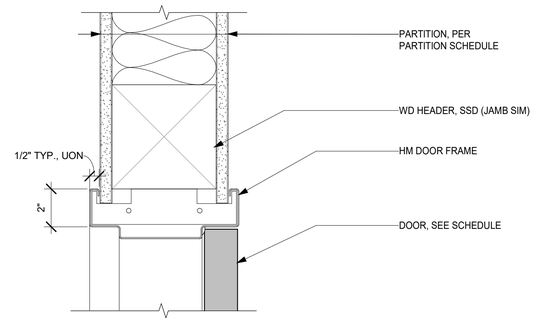


12 A9.20 DOOR HEAD (JAMB SIM) - ACOUSTICAL HM FRAME
3" = 1'-0"

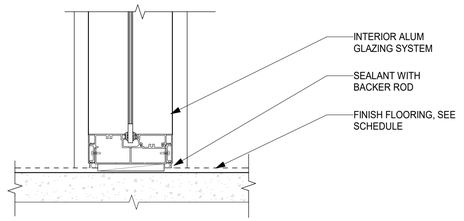
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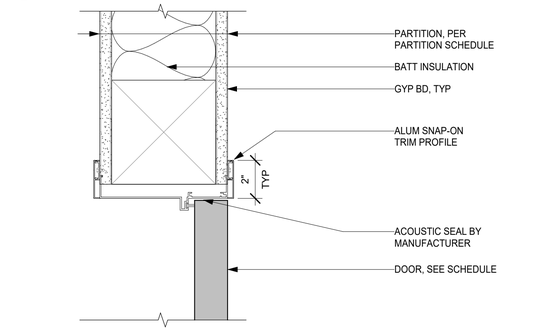
8 A9.20 INT. STOREFRONT HEAD (JAMB SIM), TYP DETAIL
3" = 1'-0"



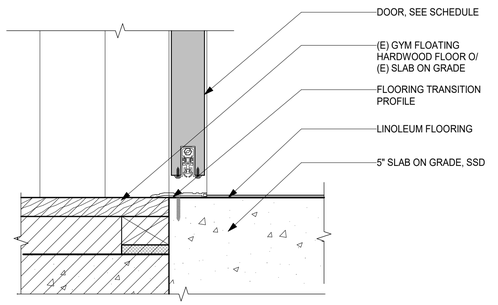
4 A9.20 DOOR HEAD (JAMB SIM) - HM FRAME
3" = 1'-0"



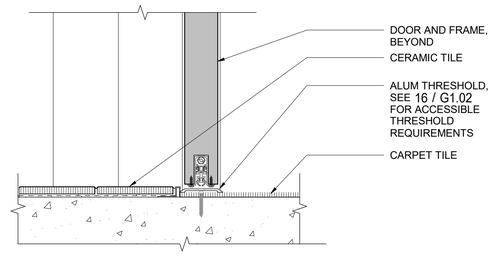
7 A9.20 INT. STOREFRONT SILL, TYP DETAIL
3" = 1'-0"



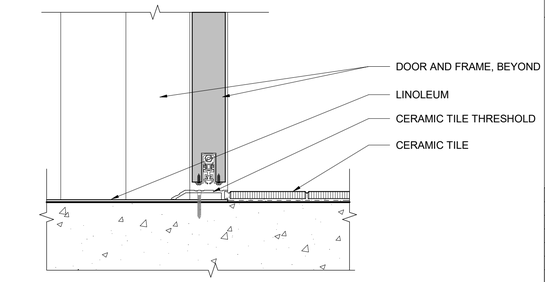
3 A9.20 INT. STOREFRONT DOOR HEAD (JAMB SIM), TYP.
3" = 1'-0"



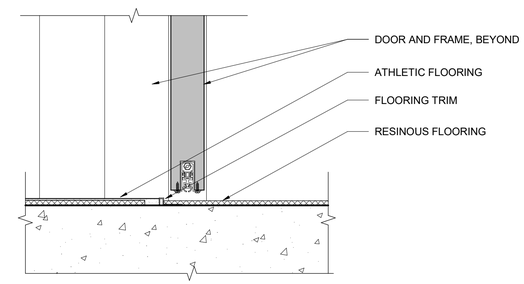
10 A9.20 DOOR SILL: LINOLEUM TO GYM FLOOR
3" = 1'-0"



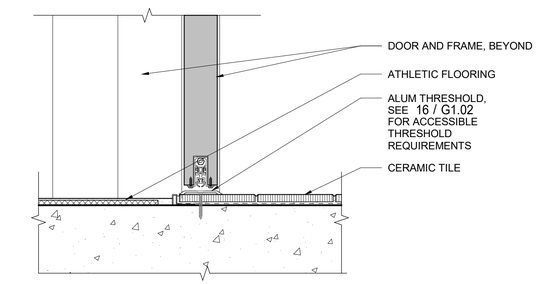
6 A9.20 DOOR SILL: TILE TO CPT TILE
3" = 1'-0"



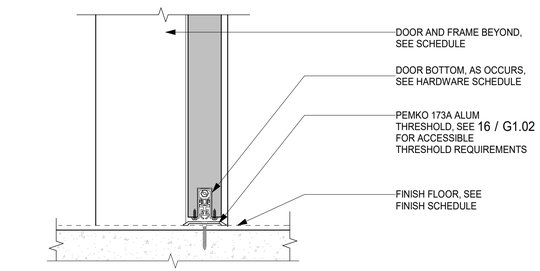
2 A9.20 DOOR SILL: LINOLEUM TO TILE
3" = 1'-0"



9 A9.20 DOOR SILL: ATHLETIC FLOORING TO RESINOUS
3" = 1'-0"



5 A9.20 DOOR SILL: ATHLETIC FLOORING TO TILE
3" = 1'-0"



1 A9.20 DOOR SILL: TYPICAL
3" = 1'-0"

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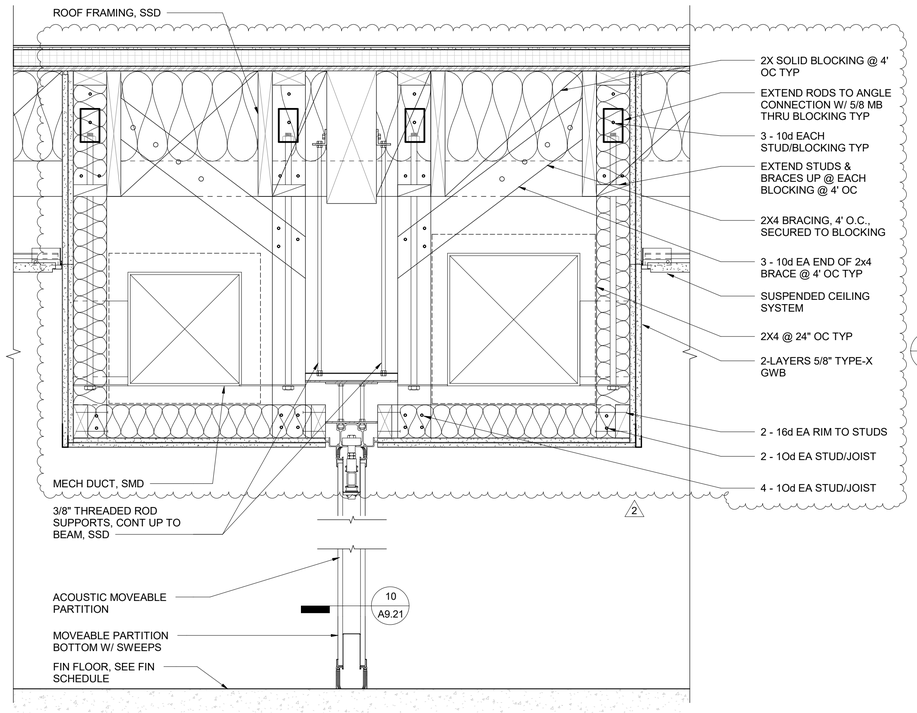
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INTERIOR DOOR AND WINDOW DETAILS

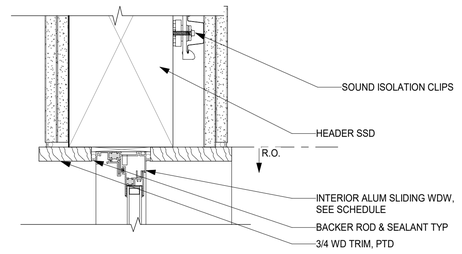
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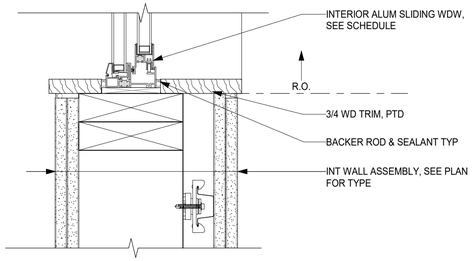
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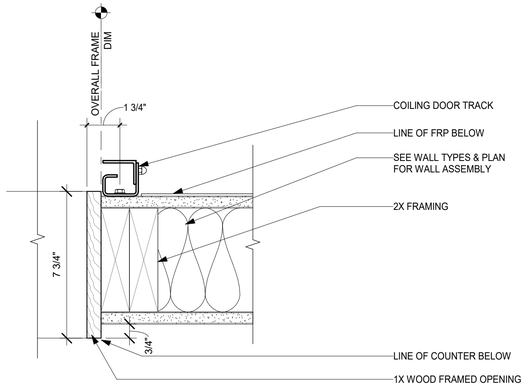


11 A9.21 OPERABLE ACOUSTIC PARTITION HEAD & SILL @ COMMUNITY ROOM
1 1/2" = 1'-0"

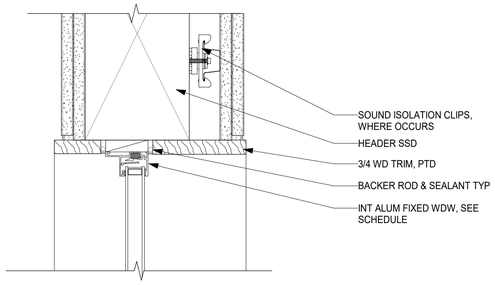


8 A9.21 INT SLIDING ALUM WDW HEAD
3" = 1'-0"

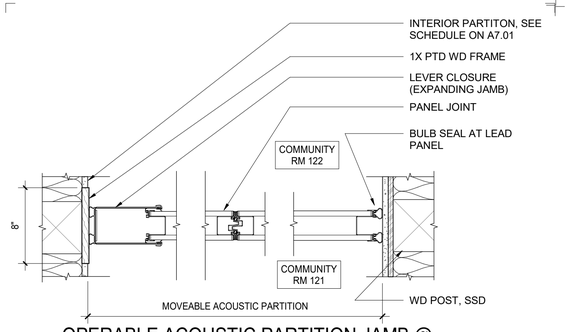




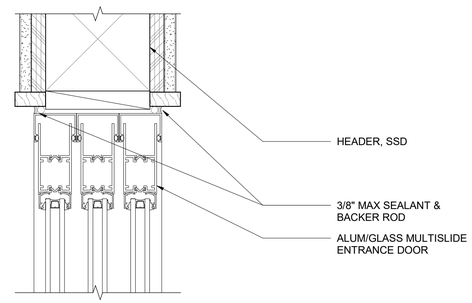
3 A9.21 COILING DOOR JAMB
3" = 1'-0"



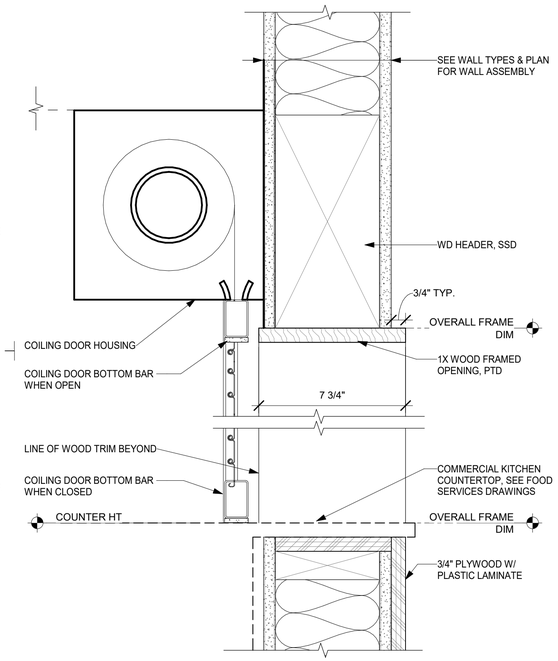
13 A9.21 INT ALUM FIXED WDW JAMB (HEAD SIM), TYP
3" = 1'-0"

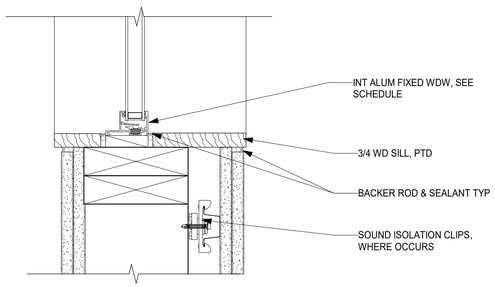


OPERABLE ACOUSTIC PARTITION JAMB @ COMMUNITY ROOM
10 A9.21 1 1/2" = 1'-0"

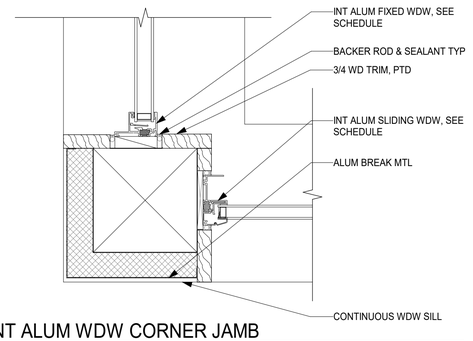


6 A9.21 MULTISLIDE DOOR HEAD
3" = 1'-0"

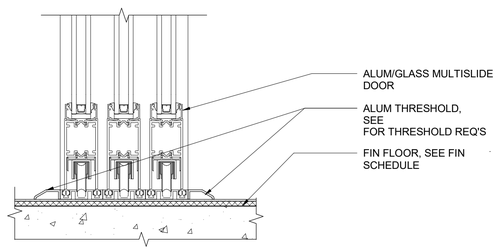




12 A9.21 INT ALUM FIXED WDW SILL
3" = 1'-0"



9 A9.21 INT ALUM WDW CORNER JAMB
3" = 1'-0"



5 A9.21 MULTISLIDE DOOR SILL
3" = 1'-0"

1 A9.21 COILING DOOR HEAD & COUNTER @ KITCHEN
3" = 1'-0"

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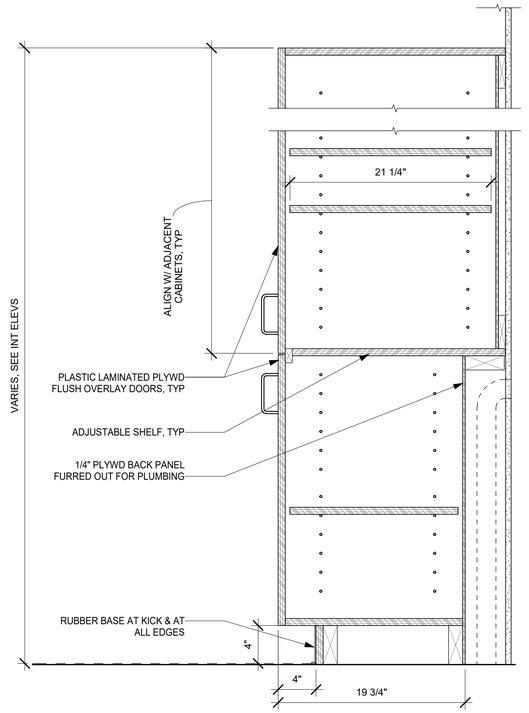
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City Plan No.:	8286
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Checked by:	KR
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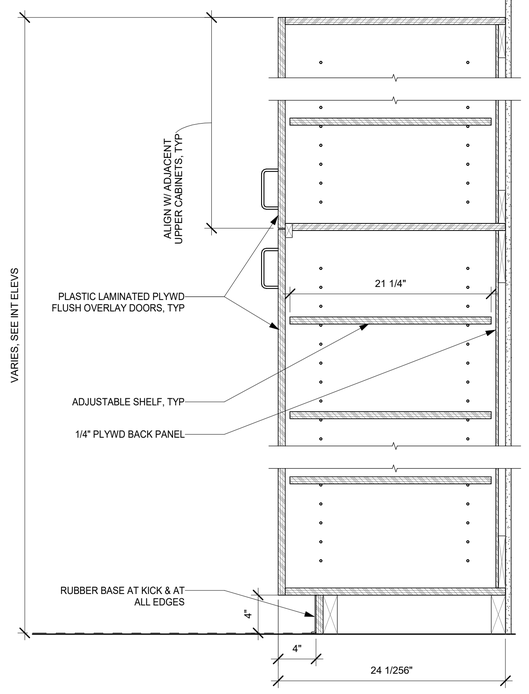
Sheet Title:
INTERIOR DOOR AND WINDOW DETAILS

Sheet No.:
A9.21

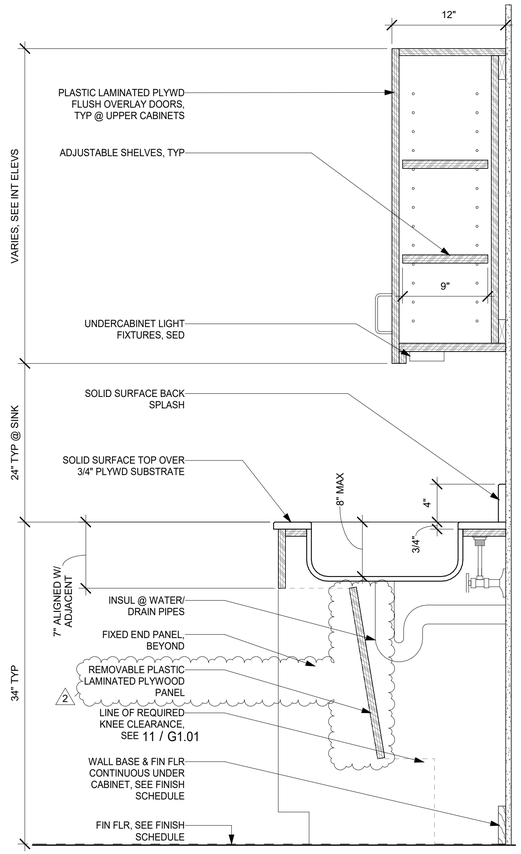
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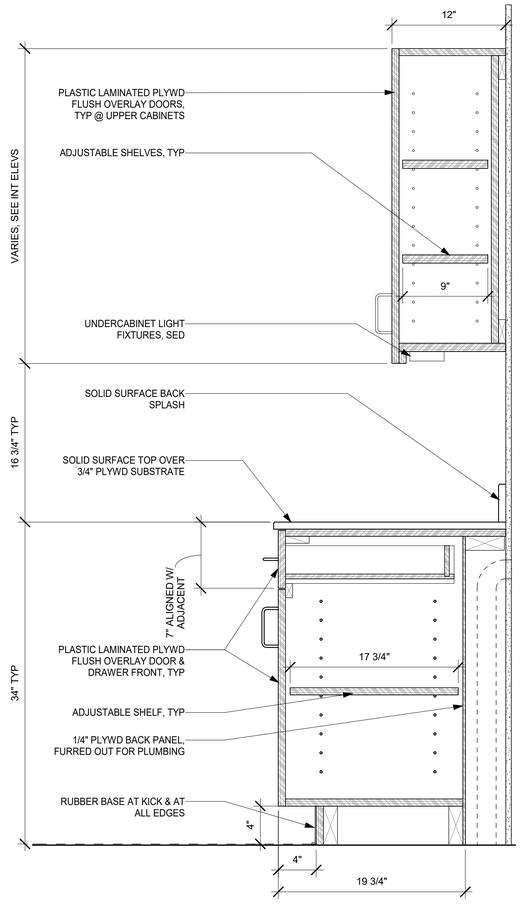
15 A9.30 TALL CABINET WITH FURRING SECTION
1 1/2" = 1'-0"



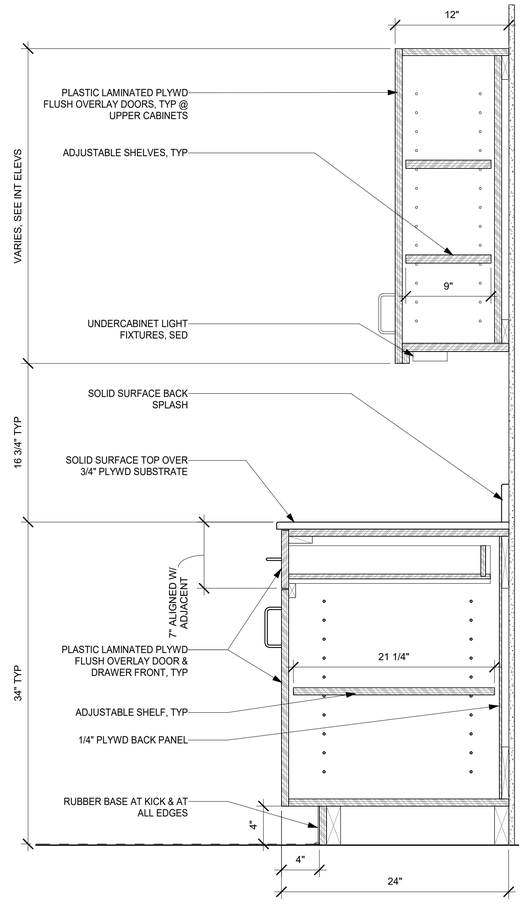
13 A9.30 TALL CABINET SECTION
1 1/2" = 1'-0"



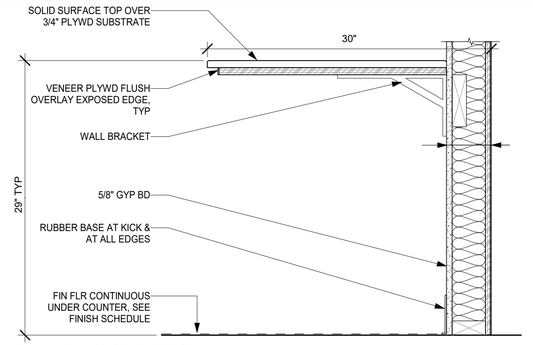
9 A9.30 CABINET, SECTION W/ SINK
1 1/2" = 1'-0"



5 A9.30 CABINET, WITH FURRING
1 1/2" = 1'-0"



1 A9.30 CABINET, TYPICAL SECTION
1 1/2" = 1'-0"



4 A9.30 LOW COUNTER
1 1/2" = 1'-0"

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Scale:	1 1/2" = 1'-0"

Sheet Title:

INTERIOR CASEWORK DETAILS

Sheet No.:

A9.30

3/8/2025 7:54:56 AM

GENERAL NOTES

1. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE 2022 CALIFORNIA BUILDING CODE AND THE PROJECT SPECIFICATIONS.
2. THESE NOTES SHALL APPLY TO ALL STRUCTURAL DRAWINGS UNLESS OTHERWISE NOTED OR SHOWN.
3. FEATURES OF CONSTRUCTION SHOWN ARE TYPICAL AND SHALL APPLY GENERALLY THROUGHOUT ALL SIMILAR CONDITIONS. IF DETAILS ARE REFERENCED ONLY ONCE, THEY ARE APPLICABLE TO ALL SIMILAR CONDITIONS IN THE PROJECT.
4. UNLESS SHOWN OTHERWISE, DETAILS SHOWN ON "TYPICAL DETAIL" SHEETS SHALL BE USED WHEREVER APPLICABLE. SPECIFIC DETAILS ON THE STRUCTURAL DRAWINGS TAKE PRECEDENCE OVER "TYPICAL DETAILS". SPECIFIC NOTES ON STRUCTURAL DRAWINGS TAKE PRECEDENCE OVER NOTES SHOWN IN "GENERAL NOTES". NOTES AND REQUIREMENTS IN DRAWINGS SHALL TAKE PRECIDENCE OVER THE SPECIFICATIONS. FOR CONFLICTS, USE THE MOST RESTRICTIVE REQUIREMENT BETWEEMDRAWINGS AND SPECIFICATIONS.
5. THE STRUCTURAL DRAWINGS SHOW STRUCTURAL FEATURES. EXACT CONFIGURATION OF INTERIOR PARTITION WALLS IS SHOWN ON ARCHITECTURAL DRAWINGS AND IS NOT NECESSARILY ALL SHOWN ON THE STRUCTURAL DRAWINGS. PROVIDE ANCHORAGE, INSERTS, ANCHOR BOLTS, ETC. FOR STRUCTURAL CONNECTIONS OF TOP, SIDES AND BOTTOM OF ALL PARTITION WALLS AS LOCATED ON THE ARCHITECTURAL DRAWINGS.
6. REFER TO THE ARCHITECTURAL DRAWINGS (AND THE SPECIFICATIONS) FOR THE FOLLOWING: FLOOR FINISHES; DEPRESSIONS AND CURBS ON FLOORS; OPENINGS REQUIRED FOR WINDOWS, DOORS, DUCTS, VENTS, PLUMBING, ETC.; FLASHING, INSERTS, ANCHORAGES, HANGERS ETC., EMBEDDED IN OR ATTACHED TO THE STRUCTURE; ROADWAY, WALKS, PAVING, STAIRS, RAMPS, TERRACES, EXTERIOR GRADES, ELEVATIONS OF ROOF SURFACE AND LOCATIONS OF DRAINS AND PARTITION WALLS.
7. THE CONTRACTOR SHALL COMPARE THE STRUCTURAL DRAWINGS WITH ARCHITECTURAL, PLUMBING, MECHANICAL, CIVIL, AND ELECTRICAL DRAWINGS AS TO ALL LAYOUTS, DIMENSIONS AND ELEVATIONS. ANY DISCREPANCIES SHALL BE REPORTED TO THE ARCHITECT FOR PROPER ADJUSTMENT BEFORE PROCEEDING WITH THE WORK.
8. IN THE EVENT THAT CERTAIN FEATURES OF THE CONSTRUCTION ARE NOT FULLY SHOWN ON THE DRAWINGS OR CALLED FOR IN THE GENERAL NOTES (**OR SPECIFICATIONS**), THEIR CONSTRUCTION SHALL BE OF THE SAME CHARACTER AS SHOWN FOR SIMILAR CONDITIONS.
9. BEAMS, JOISTS AND ANY OTHER STRUCTURAL ELEMENTS SHALL NOT BE CUT OR PENETRATED, EXCEPT AS SHOWN IN STRUCTURAL DETAILS OR AS APPROVED BY THE ARCHITECT AND THE STRUCTURAL ENGINEER.
10. CONTRACTOR SHALL VERIFY ALL DIMENSIONS IN FIELD PRIOR TO POURING CONCRETE; ANY DISCREPANCIES SHALL BE CALLED TO THE ATTENTION OF THE ARCHITECT BEFORE PROCEEDING WITH THE WORK.
11. FEATURES OF EXISTING CONSTRUCTION SHALL BE VERIFIED BY THE CONTRACTOR IN THE FIELD AND DISCREPANCIES SHALL BE CALLED TO THE ATTENTION OF THE ARCHITECT.
12. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL MEANS, METHODS, TECHNIQUES AND SEQUENCES OF CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SAFETY PROGRAMS AND PROCEDURES DURING CONSTRUCTION.
13. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO ADEQUATELY SHORE AND BRACE (**EXISTING**) BUILDING AS REQUIRED DURING CONSTRUCTION.
14. THE CONTRACTOR SHALL FOLLOW ALL INSTRUCTIONS, RECOMMENDATIONS AND SAFETY PRECAUTIONS PROVIDED BY THE MANUFACTURER OR SUPPLIER OF ANY MATERIAL OR PRODUCT NOTED IN GENERAL NOTES OR DRAWINGS.
15. SEE ARCHITECTURAL DRAWINGS FOR DETAILS ON REQUIRED VENTILATION OF ROOF JOISTS, FLOOR JOISTS, AND ATTIC SPACES.
16. CONTRACTOR SHALL FIELD VERIFY EXISTING FRAMING CONDITIONS AND SHALL NOTIFY ARCHITECT OF ANY VARIATION FROM CONDITIONS ASSUMED ON DRAWINGS. CONTRACTOR SHALL VERIFY THAT EXISTING FRAMING IS RE-SUPPORTED AND ALL LOADS ARE TRANSFERRED TO NEW OR EXISTING FOOTINGS. CONTRACTOR SHALL CONSULT WITH THE STRUCTURAL ENGINEER AS REQUIRED.
17. GRADES SHOWN ON STRUCTURAL DRAWINGS ARE APPROXIMATE AND FOR GENERAL REFERENCE ONLY.
18. MECHANICAL UNIT LOCATIONS SHOWN ON STRUCTURAL DRAWINGS ARE SCHEMATIC ONLY. GENERAL CONTRACTOR TO COORDINATE STRUCTURAL TRADES WITH MECHANICAL CONTRACTOR TO DETERMINE EXACT LOCATION OF UNITS AND SUPPORTING STRUCTURE.
19. DO NOT SCALE DRAWINGS.

DESIGN CRITERIA

1. GRAVITY LOADS
   - A. LIVE LOADS
     - i. ROOF LIVE LOAD 20 PSF
     - ii. ROOF SOLAR LOAD 6 PSF
     - iii. FLOOR LIVE LOAD 100 PSF
     - iv. PARTITION WALLS 15 PSF
   - B. SPRINKERS
     - i. POINT LOADS 250 LBS + WEIGHT OF PIPES AND WATER
2. LATERAL LOADS
   - A. WIND LOADS
     - BASIC WIND SPEED 98 MPH
     - EXPOSURE CATEGORY C
     - IMPORTANCE FACTOR I_w = 1.0
     - INTERNAL PRESSURE COEFFICIENTS 0.18, -0.18
     - SEE SHEET S1.1 FOR WIND LOAD TABLE
   - B. SEISMIC LOADS - PER ASCE 41-17
     - RISK CATEGORY - YOUNG ADULT CENTER IV
     - SITE CLASS D
     - PERIOD 0.3 SEC
     - LATERAL FORCE RESISTING SYSTEM PSW SHEAR WALLS

     BSE-2E (5% EXCEEDANCE IN 50 YEARS / 975 YR RETURN PERIOD)
     - DESIGN SHORT PERIOD ACCELERATION $S_{XS5/50}$ = 1.86 g
     - DESIGN SHORT 1 SECOND PERIOD ACCELERATION $S_{X15/50}$ = 1.18 g

     BSE-1E (20% EXCEEDANCE IN 50 YEARS / 225 YR RETURN PERIOD)
     - DESIGN SHORT PERIOD ACCELERATION $S_{XS20/50}$ = 1.04 g
     - DESIGN SHORT 1 SECOND PERIOD ACCELERATION $S_{X120/50}$ = 0.63 g

     BASE SHEAR COEFFICIENT BSE-2E $C_{e\ XS5/50}$ = 2.05 g

     BASE SHEAR COEFFICIENT BSE-1E $C_{e\ XS20/50}$= 1.21 g
   - C, SEISMIC LOADS - PER ASCE 7-16 FOR DESIGN OF ANCHORAGE OF COMPONENTS
     - RISK CATEGORY IV
     - SITE CLASS D
     - PERIOD 0.3 SEC
     - DESIGN SHORT PERIOD ACCELERATION, S_{DS} = 1.37g
     - IMPORTANCE FACTOR I_e= 1.5
     - R_P/I_E < 1.0 FOR CRITICAL OPERATIONAL MECHANICAL EQUIPMENT
3. FOUNDATIONS
   - A. FOUNDATION SYSTEM
     - i. SPREAD FOOTINGS, SLAB ON GRADE
   - B. ALLOWABLE SOIL PRESSURES (EXISTING FOOTINGS)
     - i. DEAD LOAD (ASD) 1,500 PSF
     - ii. DEAD LOAD + LIVE LOAD (ASD) 1,500 PSF
     - iii. DEAD + LIVE LOAD + LATERAL LOAD (ASD) 2,000 PSF
   - C. ALLOWABLE SOIL PRESSURES (NEW FOOTINGS)
     - i. DEAD LOAD (ASD) 2,500 PSF
     - ii. DEAD LOAD + LIVE LOAD (ASD) 2,500 PSF
     - iii. DEAD + LIVE LOAD + LATERAL LOAD (ASD) 3,325 PSF

GEOTECHNICAL REPORT

1. THE GEOTECHNICAL (OR SOIL) REPORT APPLICABLE TO THIS PROJECT SITE IS BY ENGEO, TITLED "GEOTECHNICAL EXPLORATION, MLK JR. YOUTH SERVICES / Y.A.P. SEISMIC RETROFIT AND RENOVATION PROJECT, BERKELEY, CALIFORNIA," REPORT DATED NOVEMBER 8, 2022, PROJECT 20867.000.001, AND IS AVAILABLE FOR REVIEW AT THE ARCHITECT'S OFFICE. THE CONTRACTOR SHALL READ THE GEOTECHNICAL REPORT PREPARED FOR THIS PROJECT SITE AND SHALL BE RESPONSIBLE FOR PERFORMING ALL WORK DESCRIBED THEREIN.

FOUNDATION NOTES

1. FOOTINGS SHALL BEAR ON COMPACTED SOIL.
2. FOR BIDDING PURPOSES, THE ELEVATION OF THE BOTTOM OF FOOTINGS SHALL BE AS INDICATED ON THE FOUNDATION PLANS AND ON DETAILS. FOOTING DEPTHS ARE MINIMUM AND SHALL IN NO CASE BE LESS THAN 24 INCHES INTO SUBGRADE, NOR LESS THAN 30 INCHES BELOW LOWEST ADJACENT EXTERIOR FINISHED GRADE.
3. SOIL BEARING PRESSURES UNDER FOOTINGS AS DESIGNED DO NOT EXCEED ALLOWABLE SOIL PRESSURES DEFINED IN DESIGN CRITERIA ABOVE.
4. FOOTINGS SHALL BE CENTERED UNDER COLUMNS OR PRECAST CONCRETE WALLS ABOVE UNLESS OTHERWISE NOTED.
6. SEE ARCHITECTURAL, PLUMBING, MECHANICAL, ELECTRICAL AND ANY OTHER INCLUDED DRAWINGS, AND CONSULT WITH THE RESPECTIVE TRADES FOR VERIFICATION OF ALL ITEMS SHOWN OR NOT SHOWN ON STRUCTURAL PLANS PRIOR TO POURING CONCRETE FOOTINGS AND FLOOR SLABS.
7. VERIFY LOCATIONS FOR OPENINGS OR PENETRATIONS THROUGH CONCRETE, CONCRETE CURBS, FLOOR DEPRESSIONS, FLOOR SLOPES AND DRAINS, INSERTS, ETC.
8. NO PIPING OR CONDUITS SHALL PASS OR BE PLACED BELOW OR THROUGH FOOTINGS OR GRADE BEAMS WITHOUT THE APPROVAL OF THE STRUCTURAL ENGINEER. aT A MINIMUM PIPES OR CONDUITS SHALL BE SPACED A MNINIMUM 3D BOTH HORIZONTAL AND VERTICAL INCLUDING ANY WRAPPING, SLEEVES OR INSULATION. PIPES PASSING TRROUGH FOOTINGS OR GRADE BEAMS SHALL ONLY PASS THROUGH THE MIDDLE 1/3 OF THE DEPTH AND SHALL NOT INTERRUPT REINFORCEMENT.

CONCRETE NOTES

1. ALL CONCRETE SHALL BE REINFORCED UNLESS NOTED "NOT REINFORCED".
2. SEE THE CALIFORNIA BUILDING CODE AND THE SPECIFICATIONS FOR THE REQUIREMENTS IN THE PRODUCTION, TESTING AND INSTALLATION OF CONCRETE.
3. SEE ARCHITECTURAL DRAWINGS FOR THE LOCATION AND EXTENT OF EXTERIOR WALKS AND PAVEMENTS AND FOR REINFORCEMENT REQUIREMENTS.
4. REINFORCEMENT SHALL BE PER ASTM A706, GRADE 60 TYP OR GRADE 80 WHERE NOTED ON DRAWINGS, WITH BAR MARKS LEGIBLY ROLLED INTO THE SURFACE INDICATING SIZE, TYPE OF STEEL, AND YIELD STRENGTH DESIGNATION.
5. CONCRETE SHALL CONFORM TO THE FOLLOWING CLASSES:

CONC. CLASS	USE	7 DAY STRENGTH (PSI)	56 DAY STRENGTH (PSI)	MAX AGGREGATE SIZE (IN)	CONCRETE WEIGHT (PCF)	MAX W/C RATIO %	MINIMUM GWP ($kgCO2e/m^3$)	MIN-MAX FLYASH %
A	FOUNDATIONS (CIP)	2500	4000	1	150	0.50	313	30-50
B	SLAB-ON-GRADE (CIP)	2500	4000	1	150	0.45	313	30-50
C	TOPPING SLAB (CIP)	2500	4000	3/8	150	0.45	313	30-50
D	LEAN CONCRETE	500	1000	1	150	0.50	260	30-50
E	CLDM (AT TRENCHES)	-	200	SAND	150	0.50	-	30-50

6. PROVIDE 15 MIL VAPOR BARRIER CONFORMING TO ASTM E 1745 CLASS A UNDER ALL SLABS ON GRADE.
7. CEMENT SHALL CONFORM TO ASTM C150 TYPE I CEMENT.
8. CONCRETE SHALL CONTAIN MINIMUM 30% SUPPLEMENTARY CEMENTITIOUS MATERIALS (SCM) CONTENT IN ACCORDANCE WITH BERKELEY GREEN CODE BMC CHAPTER 19.37. ACCEPTABLE SCM's INCLUDE FLY ASH AND/OR RICE HULL ASH CONFORMING TO ASTM C618 CLASS C OR F OR GROUND GRANULATED BLAST FURNACE SLAG CONFORMING TO ASTM 989, CLASS 100 OR 120.
9. CONTRACTOR, ARCHITECT, STRUCTURAL ENGINEER, AND CONCRETE SUPPLIER TO HOLD PRE-CONSTRUCTION CONCRETE MEETING PRIOR TO MIX DESIGN SUBMITTALS TO DISCUSS LOW CARBON CONCRETE COMPLIANCE FORMS FOR EACH MIX PROPOSED AND PROPOSED GWP TO BE ACHIEVED.
10. CONTRACTOR SHALL FILL OUT LOW CARBON CONCRETE COMPLIANCE FORMS FOR EACH CONCRETE MIX PROPOSED. SEE DETAIL 1 / S1.03 FOR FORM.
11. SEE REINFORCING BAR LAP SPLICE SCHEDULE FOR REINFORCING BAR LAP SPLICE LENGTHS. STAGGER SPLICES WHENEVER POSSIBLE. VERTICAL WALL REINFORCING BARS SHALL EITHER EXTEND INTO FOOTINGS OR LAP SPLICED WITH FOOTING DOWELS OF THE SAME SIZE BARS.
12. REINFORCEMENT, ANCHOR BOLTS, PIPE SLEEVES, AND OTHER INSERTS SHALL BE POSITIVELY SECURED IN PLACE BEFORE CONCRETE IS POURED. "WET-SETTING" WILL NOT BE ALLOWED.
13. REINFORCING BARS TO BE WELDED TO STEEL SHALL BE ASTM A706, OR NELSON D6L A706 BARS, SHALL BE SUPPLIED BY REINFORCING BAR SUB-CONTRACTOR AND ALL WELDING SHALL BE DONE BY STRUCTURAL STEEL SUB-CONTRACTOR.
14. BAR COVERAGE TO FACE OF BAR, EXCEPT AS OTHERWISE SHOWN, SHALL BE:
    - 3" WHERE CONCRETE IS POURED AGAINST EARTH OR AGAINST GROUND CONTACT
    - 2" FOR BARS LARGER THAN #5, WHERE CONCRETE SURFACES ARE EXPOSED TO EARTH OR TO WEATHER AFTER REMOVAL OF FORMS.
    - 1-1/2" FOR #5 BARS OR SMALLER, WHERE CONCRETE SURFACES ARE EXPOSED TO EARTH OR TO WEATHER AFTER REMOVAL OF FORMS
    - 1-1/2" FOR COLUMN SPIRAL TIES*
    - 1" FOR WALL BARS (DOUBLE MAT)*
    - 3/4" FOR STRUCTURAL SLAB BARS, TOP AND BOTTOM*

    *UNLESS GOVERNED ABOVE BY EXPOSURE OR NOTED ON DETAILS.
15. INTERIOR SLAB ON GROUND SHALL BE REINFORCED AS SHOWN ON STRUCTURAL PLANS. LOCATIONS OF CONSTRUCTION JOINTS OTHER THAN SHOWN ON DRAWINGS MUST BE APPROVED BY THE ARCHITECT.
16. ALL CONCRETE CURBS ARE 6 INCHES HIGH UNLESS OTHERWISE NOTED.
17. THE SURFACE OF ALL CONSTRUCTION JOINTS SHALL BE CLEANED AND ROUGHENED BY REMOVING THE ENTIRE SURFACE AND EXPOSING CLEAN AGGREGATE SOLIDLY EMBEDDED IN MORTAR MIX.
18. WHERE NEW CONSTRUCTION IS INTEGRATED WITH EXISTING CONCRETE CONSTRUCTION, WHERE NEW CONCRETE ABUTS EXISTING CONCRETE, CLEAN EXISTING CONCRETE SURFACE WITH HIGH PRESSURE WATER SPRAY. APPLY APPROVED BONDING AGENT TO SURFACE OF EXISTING CONCRETE.
19. HOLES FOR GROUTED ANCHORS SHALL BE DRILLED WITH ROTARY HAMMER OR OTHER SUITABLE METHODS TO ENSURE EXISTING REINFORCEMENT IS NOT DAMAGED. HOLE DIAMETER SHALL BE 1/8" GREATER THAN ANCHOR ROD DIAMETER, UNLESS OTHERWISE NOTED. GROUT SHALL BE NON-SHRINK EPOXY. LOCATE EXISTING REINFORCING BARS PRIOR TO DRILLING HOLES. DO NOT DAMAGE EXISTING REINFORCING. METHOD OF LOCATING EXISTING REINFORCING BARS SHALL BE APPROVED BY THE STRUCTURAL ENGINEER. ALL MIS-DRILLED OR UNACCEPTABLE HOLES SHALL BE GROUTED SOLID.
20. TERMINATION OF REINFORCEMENT:
    - A. TERMINATE ALL BARS IN LAPS, 90 DEGREE BENDS, OR DOWELS INTO FOOTONGS OR PERPENDICILAR WALLS OR COLUMNS.
    - B. BEND TOP FOOTING BARS DOWN TO BOTTOM REINFORCING.
    - C. BEND BOTTOM FOOTING BARS UP WITH STANDARD 90 DEGREE BENDS.
    - D. WALLS WITH HORIZONTAL BARS SHALL TERMINATE WITH HRC 555 T HEADS (ICC ESR NO. 2935).
    - E. PROVIDE DOWELS INTO FOOTINGS FOR WALLS AND COLUMNS OF THE SAME BAR SIZE AND SPACING AS IN WALLS AND COLUMNS. LAP DOWELS PER THE LAP SCHEDULE AT THE BASE OF THE WALL OR COLUMN.
    - F. ALL REINFORCEMENT SHALL LAP PER THE LAP SPLICE SCHEDULE. LAP NO MORE THAN EVERY OTHER BAR AT A SINGLE LOCATION (50% BARS), STAGGER LAPS 5'-0".
    - G. REINFORCEMENT LAPS MAY BE MADE WITH MECHANICAL COUPLERS, TYPE 1, WHICH CAN ACHIEVE 125% OF BAR STRENGTH OR GREATER. SUBMIT ICC EVALUATION REPORT TO STRUCTURAL ENGINEER AND BUILDING OFFICIAL.
21. ROUGHENED SURFACES. ROUGHEN ALL CONCRETE COLD JOINT SURFACES TO ¼ INCH AMPLITUDE.
    ROUGHEN ALL CONCRETE COLD JOINTS:
    - A. AT TOPS OF FOOTINGS BELOW WALLS AND COLUMNS.
    - B. AT ALL FOOTING POUR JOINTS
    - C. AT ALL SLAB COLD JOINTS.
    - D. AT ALL JOINTS WITHIN ELEMENTS.
22. PROVIDE 3/4" CHAMFER AT ALL CONCRETE EDGES IN PANELS

EXPANSION ANCHORS IN HARDENED CONCRETE OR CONRETE MASONRY UNIT NOTES

1. ALL EXPANSION ANCHORS IN CONCRETE SHALL BE HILTI KB-TZ2, (PER ESR-4266) OR APPROVED EQUAL.
2. ALL EXPANSION ANCHORS IN MASONRY SHALL BE HILTI KB-3, (PER ESR-1385) OR APPROVED EQUAL.
3. INSTALLATION: THE ANCHORS MUST BE INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS GIVEN IN ICC RESEARCH COMMITTEE RECOMMENDATIONS FOR THE SPECIFIC ANCHOR.
4. HOLES FOR EXPANSION ANCHORS SHALL BE DRILLED WITH ROTARY HAMMER OR OTHER SUITABLE METHODS TO ENSURE EXISTING REINFORCEMENT IS NOT DAMAGED. HOLE DIAMETER SHALL BE AS REQUIRED BY MANUFACTURER. LOCATE EXISTING REINFORCING BARS PRIOR TO DRILLING HOLES. DO NOT DAMAGE EXISTING REINFORCING. METHOD OF LOCATING EXISTING REINFORCING BARS SHALL BE APPROVED BY THE STRUCTURAL ENGINEER. ALL MIS-DRILLED OR UNACCEPTABLE HOLES SHALL BE GROUTED SOLID.
5. JOB TESTING AND INSPECTION: CONTINUOUS VISUAL INSPECTION OF ANCHOR INSTALLATION IS REQUIRED.
6. TEST EXPANSION ANCHORS IN ACCORDANCE WITH CBC SECTION 1910A.5.3:
   - A. TEST 10% OF ANCHORS USED FOR PARTITION WALL ANCHORAGE.
   - B. TEST 100% OF ANCHORS USED FOR ALL OTHER STRUCTURAL USES.
   - C. TEST 50% OF ANCHORS USED FOR ANCHORAGE OF NONSTRUCTURAL COMPONENTS.
7. IF ANY ANCHOR FAILS, TEST ALL ANCHORS UNTIL 20 SUCCESSFUL CONSECUTIVE TESTS ARE MADE, THEN RESUME TESTING FREQUENCY.
8. THE LOAD TEST SHALL BE PERFORMED IN ACCORDANCE WITH THE ACCEPTANCE CRITERIA FOR POST-INSTALLED ANCHORS BASED ON THE APPROVED EVALUATION REPORT FOR THE ANCHORS USED.
9. TEST INSPECTOR SHALL VERIFY ALL EXPANSION ANCHORS FOR MINIMUM INSTALLATION TORQUE NOTED IN SCHEDULE BELOW.
10. TENSION PROOF LOAD SHALL BE BY AN INDEPENDENT TESTING LABORATORY.
11. EXPANSION ANCHOR BOLT SCHEDULE:
    - A. CARBON STEEL (CS) AND STAINLESS STEEL (SS) HILTI KB-TZ2 IN NORMAL WEIGHT CONCRETE WITH MINIMUM f'c = 3000 psi:

ANCHOR DIAMETER	MINIMUM HOLE DEPTH	MINIMUM EFFECTIVE EMBEDMENT	ALLOWABLE STATIC LOAD (LBS)	TENSION-TEST LOAD (LBS)	MINIMUM INSTALLATION TORQUE (FT-LBS)
3/8"	3.25"	2.50"	1054(CS)/1086(SS)	4180(CS)/4185(SS)	30(CS)/30(SS)
1/2"	4.25"	3.25"	2500(CS)/2533(SS)	5500(SS)	50(CS)/40(SS)
5/8"	4.75"	4.00"	3458(CS)/2970(SS)	8995(CS)/8050(SS)	40(CS)/60(SS)
3/4"	5.75"	4.75"	4475(CS)/4475(SS)	8835(CS)/8795(SS)	110(CS)/125(SS)

B. CARBON STEEL HILTI KB3 INSTALLED IN FACE SHELL OF CONCRETE MASONRY UNIT WITH f'm = 1500 psi AND NO CLOSER THAN 4" TO EDGE OF WALL:

ANCHOR DIAMETER	MINIMUM HOLE DEPTH	MINIMUM EFFECTIVE EMBEDMENT	ALLOWABLE STATIC LOAD (LBS)	TENSION-TEST LOAD (LBS)	MINIMUM INSTALLATION TORQUE (FT-LBS)
1/4"	*	2.00"	432	864	4
3/8"	*	2.50"	626	1252	15
1/2"	*	3.50"	724	1448	25
5/8"	*	4.00"	994	1988	65
3/4"	*	4.38"	1316	2632	120

*HOLE DEPTH SHALL BE LENGTH OF ANCHOR PLUS ONE DIAMETER

GROUTED ANCHORS AND DOWELS IN HARDENED CONCRETE OR MASONRY

1. GROUT FOR SETTING ANCHORS OR DOWELS IN HARDENED CONCRETE SHALL BE SIMPSON SET-XP (PER ESR-2508), HILTI HIT RE-500SD (PER ESR-2322), OR APPROVED EQUAL.
2. GROUT FOR SETTING ANCHORS IN CONCRETE MASONRY SHALL BE SIMPSON SET-XP (PER IAMPO REPORT 265), HILTI HY-150 MAX (PER ESR 1967) OR APPROVED EQUAL.
3. HOLES FOR GROUTED ANCHORS SHALL BE DRILLED WITH ROTARY HAMMER OR OTHER SUITABLE METHODS TO ENSURE EXISTING REINFORCEMENT IS NOT DAMAGED. HOLE DIAMETER SHALL BE AS REQUIRED BY MANUFACTURER. LOCATE EXISTING REINFORCING BARS PRIOR TO DRILLING HOLES. DO NOT DAMAGE EXISTING REINFORCING. METHOD OF LOCATING EXISTING REINFORCING BARS SHALL BE APPROVED BY THE STRUCTURAL ENGINEER. ALL MIS-DRILLED OR UNACCEPTABLE HOLES SHALL BE GROUTED SOLID.
4. USE SCREEN TUBE WHERE REQUIRED BY EPOXY MANUFACTURER IN HOLLOW MASONRY OR BRICK CONSTRUCTION. VERIFY HOLE DIAMETER FOR SCREEN TUBE PRIOR TO DRILLING.
5. JOB TESTING AND INSPECTION: CONTINUOUS SPECIAL INSPECTION OF ALL GROUTED ANCHOR AND DOWEL INSTALLATION IS REQUIRED. TESTING SHALL BE AS FOLLOWS:
   - A. THREADED RODS: TEST FIRST 10 INSTALLED RODS OF EACH SIZE TO TENSION PROOF LOAD SHOWN ON GROUTED ANCHOR SCHEDULE. IF ALL PASS, TEST 20% OF REMAINING RODS. IF ANY ROD FAILS, TEST ALL RODS UNTIL 10 SUCCESSFUL CONSECUTIVE TESTS ARE MADE, THEN RESUME 20% TESTING FREQUENCY. THE LOAD TEST SHALL BE PERFORMED IN THE PRESENCE OF THE PROJECT SPECIAL INSPECTOR.
   - B. REINFORCING BAR ANCHORS, #5 AND LARGER: TEST PER THREADED ROD REQUIREMENTS ABOVE
   - C. REINFORCING BAR ANCHORS #4 AND SMALLER: NO TESTING REQUIRED. VISUAL OBSERVATION ONLY.

ANCHOR DIAMETER	MINIMUM HOLE DEPTH	MINIMUM EFFECTIVE EMBEDMENT	ALLOWABLE STATIC LOAD (LBS)	TENSION-TEST LOAD (LBS)	MINIMUM INSTALLATION TORQUE (FT-LBS)
3/8"	*	2 1/2"	1054(CS)/1086(SS)	4180(CS)/4185(SS)	30(CS)/30(SS)
1/2"	*	4"	2500(CS)/2533(SS)	5500(SS)	50(CS)/40(SS)
5/8"	*	5"	3458(CS)/2970(SS)	8995(CS)/8050(SS)	40(CS)/60(SS)
3/4"	*	6"	4475(CS)/4475(SS)	8835(CS)/8795(SS)	110(CS)/125(SS)

B. STEEL ANCHORS INSTALLED IN FACE SHELL OF EXISTING CONCRETE MASONRY UNITS WITH f'm = 1500 psi AND NO CLOSER THAN 4" TO EDGE OF WALL:

ANCHOR DIAMETER	MINIMUM HOLE DEPTH	MINIMUM EFFECTIVE EMBEDMENT	ALLOWABLE STATIC LOAD (LBS)	TENSION-TEST LOAD (LBS)	MINIMUM INSTALLATION TORQUE (FT-LBS)
1/4"	*	2"	432	864	4
3/8"	*	3"	626	1252	15
1/2"	*	4"	724	1448	25
5/8"	*	5"	994	1988	65
3/4"	*	6"	1316	2632	120

*HOLE DEPTH SHALL BE LENGTH OF ANCHOR PLUS ONE DIAMETER

STRUCTURAL SHEET LIST

SHEET N0.	SHEET NAME
S1.01	GENERAL NOTES
S1.02	GENERAL NOTES CONT.
S1.03	LOW CARBON COMPLIANCE FORM
S2.01	FOUNDATION AND FIRST FLOOR PLAN
S2.02	LOW ROOF FRAMING PLAN
S2.03	HIGH ROOF PLAN
S3.01	WALL ELEVATIONS
S3.02	WALL ELEVATIONS
S3.03	WALL ELEVATIONS
S3.04	WALL ELEVATIONS
S3.05	WALL ELEVATIONS
S3.06	SECTIONS AT ENTRY
S3.07	WALL ELEVATIONS
S5.01	TYPICAL FOUNDATION DETAILS
S5.02	CONCRETE DETAILS
S5.03	CONCRETE DETAILS
S7.01	STEEL DETAILS AT TRUSSES STRENGTHENING
S8.01	TYPICAL WOOD DETAILS
S8.02	TYPICAL WOOD DETAILS
S8.03	TYPICAL WOOD DETAILS
S8.04	WOOD DETAILS
S8.05	WOOD DETAILS
S8.06	WOOD DETAILS
S8.07	BB ANCHORAGE DETAILS
S8.08	BB ANCHORAGE DETAILS
S8.09	ME EQUIPMENT ANCHORAGE
S8.10	ROOF FALL PROTECTION ANCHORS

Project Title:

CITY OF BERKELEY
PARKS, RECREATION & WATERFRONT DEPARTMENT

MLK JR. YOUTH SERVICES CENTER / YAP SEISMIC RETROFIT AND RENOVATION

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Stamp:

REGISTERED PROFESSIONAL ENGINEER
JASON M. LEE
No. S4980
STRUCTURAL
STATE OF CALIFORNIA

Signed on 02/28/2025

No.	Description	Date
	PERMIT SET	12/04/24
1	PLAN CHECK #1	03/07/25

Issue Note: PERMIT RESUBMITTAL 03/07/25

City Plan No.:	8286
City File No.:	402-145
Specification No.:	#25-11695-C
Drawn by:	Author
Checked by:	Checker
Plot Date:	02/28/2025
Scale:	

Sheet Title: GENERAL NOTES

Sheet No.: S1.01

3/5/2025 12:43:49 PM

CARPENTRY NOTES

1. SILLS ON CONCRETE SHALL BE PRESSURE TREATED DOUGLAS FIR LARCH 3x THICK AT ALL EXTERIOR WALLS AND INTERIOR SHEAR WALLS NOTED ON PLAN. ALL OTHER SILLS ON CONCRETE MAY BE PRESSURE TREATED DOUGLAS FIR LARCH 2x THICK. THEY SHALL BE ANCHORED WITH 5/8" DIAMETER MACHINE BOLTS WITH 7" EMBEDMENT. AT SHEAR WALLS, BOLTS SHALL HAVE NUT, CUT WASHER AND PLATE WASHER AS FOLLOWS
   A. 4" STUDS: 1/4"x3"x3" PLATE WASHER.
   B. 6" STUDS: 1/4"x3"x5" PLATE WASHER.
   C. 8" STUDS: 1/4"x3x7" PLATE WASHER.
   AT NON-SHEAR WALLS, PLATE WASHER IS NOT REQUIRED. LOCATE BOLTS 6" MINIMUM AND 12" MAXIMUM FROM EACH END OF EACH STICK AND NOT OVER 48" ON CENTER BETWEEN. SEE SHEAR WALL SCHEDULE OR PLANS FOR SPECIFIC SPACING OF ANCHOR BOLTS WHICH MAY BE NOTED AS LESS THAN 48" ON CENTER. THERE SHALL BE AT LEAST 2 BOLTS IN EACH STICK. WHERE NOTCHES FOR PIPES, ETC., EXCEED 1/3 THE WIDTH OF THE SILL, PLACE A BOLT WITHIN 6" OF EACH SIDE OF NOTCH. TIEDOWN BOLTS SHALL NOT BE CONSIDERED AS SILL BOLTS.
2. FRAMING LUMBER: DOUGLAS FIR-LARCH, MANUFACTURED AND GRADED IN ACCORDANCE WITH THE WEST COAST LUMBER INSPECTION BUREAU "STANDARD GRADING RULES NO. 17", LATEST EDITION INCLUDING ALL SUPPLEMENTS.
   STRUCTURAL JOISTS: SELECT STRUCTORAL, 2" THICK
   BEAMS: NO. 1, FREE OF HEART CENTER, 5" AND THICKER
   POSTS: NO. 1
   STUDS: 2x4 OR 3x4 - NO. 2
   2x6 AND LARGER - NO. 2
3. NEW FRAMING LUMBER SHALL HAVE A MAXIMUM MOISTURE CONTENT OF 19 PERCENT AT TIME OF INSTALLATION. AIR DRIED SURFACED GREEN (S-GRN) LUMBER SHALL REQUIRE MOISTURE METER TESTING BY QUALIFIED INDEPENDENT TESTING LABORATORY AND APPROVAL BY THE STRUCTURAL ENGINEER. LUMBER USED IN WALLS AND FLOORS SHALL HAVE A MAXIMUM MOISTURE CONTENT OF 19% AT THE TIME OF CLOSURE.
4. FRAMING SISTERED TO EXISTING FRAMING SHALL HAVE A MAXIMUM MOISTURE CONTENT OF 12 PERCENT AT TIME OF INSTALLATION. KILN DRIED OR AIR DRIED LUMBER SHALL REQUIRE MOISTURE METER TESTING BY QUALIFIED INDEPENDENT TESTING LABORATORY AND APPROVAL BY THE STRUCTURAL ENGINEER. LUMBER USED IN WALLS AND ROOFS SHALL HAVE A MAXIMUM MOISTURE CONTENT OF 12% AT THE TIME OF CLOSURE.
5. STUD AND POST SIZES (UNLESS OTHERWISE NOTED)
   STUDS AT NEW EXTERIOR WALLS: 3x6 @ 16" ON CENTER
   STUDS AT NEW INTERIOR WALLS: 3x6 @ 16" ON CENTER
   POSTS: 6x6
6. BLOCKING AND BRIDGING - PROVIDE AS FOLLOWS:
   A. 2x SOLID BLOCKING BETWEEN JOISTS AND RAFTERS OVER SUPPORT.
   B. 2x SOLID BLOCKING BETWEEN JOISTS AND RAFTERS NOT OVER 8'-0" ON CENTER NOR MORE THAN 8'-0" FROM SUPPORT.
   C. OMIT BLOCKING BETWEEN CEILING JOISTS AND RAFTERS 2x8 AND SMALLER.
   D. CONTINUOUS 2" HERRINGBONE BRIDGING, SLOPE 3 IN 12, AT MID-HEIGHT OF STUDS OR SO SPACED THAT UNBRACED LENGTH OF STUDS SHALL NOT EXCEED 8'-0", EXCEPT WHERE WALL FINISH OF PLYWOOD SHEATHING AT SHEAR WALLS CALLS FOR SOLID HORIZONTAL BLOCKING.
7. PIPES EXCEEDING ONE-THIRD OF THE PLATE WIDTH SHALL NOT BE PLACED IN PARTITIONS USED AS BEARING OR SHEAR WALLS, UNLESS OTHERWISE DETAILED OR COMPLETELY FURRED CLEAR OF THE STUDS. PIPES SHALL PASS THROUGH THE CENTER OF THE PLATES USING A NEATLY BORED HOLE. NO NOTCHING WILL BE ALLOWED.
8. LAG SCREWS SHALL BE SCREWED (NOT DRIVEN) INTO PLACE. DRILL HOLES SAME DIAMETER AND DEPTH AS SHANK. THEN DRILL HOLE 60-70% OF DIAMETER AT BASE OF THREAD FOR THE THREADED PORTION. USE STEEL PLATE WASHERS AS REQUIRED FOR THE SAME BOLT SIZE.
9. BOLTS IN WOOD SHALL BE MACHINE BOLTS UNLESS OTHERWISE NOTED. ALL MACHINE BOLTS SHALL HAVE CUT THREADS.
10. BOLT HOLES IN WOOD AND STEEL SHALL BE THE DIAMETER OF THE BOLT PLUS 1/16".
11. PROVIDE PLATE WASHER UNDER HEAD AND NUT OF BOLT WHERE BEARING IS AGAINST WOOD. LENGTH OF THREAD SHALL BE SUCH THAT THREADS DO NOT BEAR AGAINST WOOD. ALL NUTS SHALL BE TIGHTENED WHEN PLACED AND RE-TIGHTENED AT COMPLETION OF THE JOB IMMEDIATELY BEFORE CLOSING WITH FINISH CONSTRUCTION.
12. CONNECTORS FOR WOOD CONSTRUCTION NOTED ON PLANS AND DETAILS SHALL BE SIMPSON COMPANY STRONG-TIE CONNECTORS OR APPROVED EQUAL.
13. STUDS SHALL BE ONE PIECE BETWEEN FLOORS AND FROM FLOOR TO ROOF. ALIGN CENTERLINE OF STUDS WITH CENTERLINE OF FLOOR JOISTS. ALIGN CENTERLINE OF STUDS FOR FULL HEIGHT OF STRUCTURE TYPICAL.
14. ALL POSTS SHALL BE FULL HEIGHT FROM FOUNDATION TO ROOF. WHERE POSTS ARE DISCONTINUOUS AT JOIST SPACE AND/OR FROM TOP OF BEAMS/HEADERS TO LOWER TOP PLATE, BLOCK THIS SPACE WITH STUD POST.
15. ALL NON-BEARING PARTITIONS SHALL HAVE DOUBLE JOISTS BELOW WHERE PARTITIONS ARE PARALLEL TO JOISTS, AND FULL DEPTH [2x] [LSL] BLOCKING BELOW WHERE PARTITIONS ARE PERPENDICULAR TO JOISTS.
16. JOISTS SUPPORTING MECHANICAL EQUIPMENT SHALL BE DOUBLE JOISTS (DJ) UNLESS NOTED OTHERWISE.
17. FASTENERS PENETRATING PRESSURE-PRESERVATIVE TREATED AND FIRE-RETARDANT TREATED WOOD SHALL BE HOT-DIPPED GALVANIZED PER ASTM A153, CLASS D.
18. ALL CONNECTORS FOR PRESSURE-PRESERVATIVE TREATED AND FIRE-RETARDANT TREATED WOOD SHALL BE STAINLESS STEEL. ALL NAILS, SCREWS, BOLTS, ETC. FOR SUCH CONNECTORS SHALL BE STAINLESS STEEL.

SHEATHING NOTES

1. ROOF, FLOORS, ALL EXTERIOR WALLS AND INTERIOR SHEAR WALLS (WHERE NOTED ON STRUCTURAL PLANS) SHALL BE SHEATHED WITH DOUGLAS FIR SHEATHING WITH EXTERIOR GLUE AS FOLLOWS:
   WALLS: 1/2", APA STRUCTURAL I RATED PLYWOOD, 32/16, EXPOSURE 1
   ROOFS: 1/2", APA STRUCTURAL I RATED PLYWOOD, 32/16, EXPOSURE 1
2. SHEATHING SHALL BE PLYWOOD WITH 5 PLIES OF LAMINATIONS.
3. ALL EXTERIOR WALLS SHALL BE SHEATHED WITH 1/2" PLYWOOD.
4. ALL SHEATHING USED STRUCTURALLY SHALL EXTEND CONTINUOUSLY BEHIND ALL FINISH. WHERE IT IS TO BE PLASTERED, IT SHALL BE PROTECTED BY AN UNBROKEN LAYER OF MOISTURE-TIGHT PAPER UNDER LATHING.
5. IN GENERAL, SHEETS SHALL BE 4'-0" x 8'-0". MINIMUM SHEET DIMENSION IS 24 INCHES, UNLESS ALL EDGES ARE FULLY SUPPORTED BY FRAMING MEMBERS OR BLOCKING. THE LONG DIMENSION MAY BE LAID EITHER HORIZONTALLY OR VERTICALLY AT WALLS. ROOF AND FLOOR SHEETS SHALL BE LAID WITH FACE PLIES ACROSS JOISTS OR FRAMING MEMBERS AND WITH END JOINTS STAGGERED 4'-0". USE PLYCLIPS HALFWAY BETWEEN EACH SUPPORT AT UNBLOCKED ROOFS. ALL SHEATHING JOINTS SHALL BE ACCURATELY CENTERED ON SUPPORTING ELEMENTS, INCLUDING BLOCKING. BLOCKING BETWEEN JOISTS FOR EDGE NAILING SHALL BE 3x4 MINIMUM FLAT BLOCKING, EXCEPT WHERE DETAILED OTHERWISE. ROOF AND FLOOR SHEATHING MAY BE UNBLOCKED. GLUE FLOOR SHEATHING TO ALL SUPPORTS INCLUDING BLOCKING WITH AN ADHESIVE RECOMMENDED BY THE AMERICAN PLYWOOD ASSOCIATION FOR THIS PURPOSE.

NAILING NOTES

1. ALL NAILS SHALL BE COMMON WIRE NAILS. WHERE NAILS TEND TO SPLIT THE WOOD, NAIL HOLES SHALL BE PRE-DRILLED.
2. PROVIDE MINIMUM NAILING REQUIREMENTS AS SET FORTH IN CALIFORNIA BUILDING CODE TABLE 2304.10.1 EXCEPT THAT BOX NAILS SHALL NOT BE USED.
3. PLYWOOD NAILING:
   AT WALLS: SEE SHEAR WALL SCHEDULE. MINIMUM 10d AT 6" OC AT PANEL EDGES AND 12" OC AT FIELD NAILING.
   AT ROOFS: SEE PLANS. MINIMUM 10d AT 6" OC AT PANEL EDGES AND 12" OC AT FIELD NAILING.
4. MAINTAIN ACCURATE NAIL SPACING AS INDICATED. NAIL SPACING CLOSER THAN SPECIFIED WILL BE CAUSE FOR REJECTION OF THE WORK.
5. NAILS PENETRATING PRESSURE-PRESERVATIVE TREATED AND FIRE-RETARDANT TREATED WOOD SHALL BE HOT-DIPPED GALVANIZED PER ASTM A153, CLASS D. NAILS FOR STAINLESS STEEL CONNECTORS SHALL BE STAINLESS STEEL.

ENGINEERED LUMBER NOTES

1. ALL TIMBERSTRAND LAMINATED STRAND LUMBER MEMBERS (LSL), MICROLLAM LAMINATED VENEER LUMBER (LVL), AND PARALLAM PARALLEL STRAND LUMBER (PSL), SHALL BE AS MANUFACTURED BY WEYERHAEUSER OR APPROVED EQUAL AND SHALL BE FABRICATED AND ERECTED IN ACCORDANCE WITH ICC ES ESR-1387.
2. TIMBERSTRAND MEMBERS (LSL) SHALL HAVE THE FOLLOWING PROPERTIES:
   ALLOWABLE FLEXURAL STRESS: 2325 PSI
   ALLOWABLE SHEAR STRESS: 310 PSI
   MODULUS OF ELASTICITY: 1,550,000 PSI
3. MICROLLAM MEMBERS (LVL) SHALL HAVE THE FOLLOWING PROPERTIES:
   ALLOWABLE FLEXURAL STRESS: 2600 PSI
   ALLOWABLE SHEAR STRESS: 285 PSI
   MODULUS OF ELASTICITY: 2,000,000 PSI
4. PARALLAM MEMBERS (PSL) SHALL HAVE THE FOLLOWING PROPERTIES:
   ALLOWABLE FLEXURAL STRESS: 2900 PSI
   ALLOWABLE SHEAR STRESS: 290 PSI
   MODULUS OF ELASTICITY: 2,200,000 PSI
5. DO NOT USE PARALLAM, MICROLLAM OR TIMBERSTRAND MEMBERS WHERE THEY MAY BE EXPOSED TO THE WEATHER. PROTECT THESE MEMBERS FROM MOISTURE UNTIL CLOSED IN WITH FINISH CONSTRUCTION.

TESTS, INSPECTIONS AND OBSERVATIONS NOTES

1. TESTS AND INSPECTIONS SHALL BE PROVIDED FOR ALL ITEMS AS REQUIRED BY THE CALIFORNIA BUILDING CODE.
2. THE OWNER SHALL BE RESPONSIBLE FOR RETAINING AN INDEPENDENT TESTING AND INSPECTION LABORATORY TO PERFORM ALL REQUIRED TESTING AND INSPECTIONS.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING THE TESTING AND INSPECTION LABORATORY WITH CONSTRUCTION SCHEDULES TO ENSURE PROPER COORDINATION OF WORK.
4. IN ADDITION TO SPECIAL INSPECTIONS, THE FOLLOWING SPECIFIED ITEMS SHALL HAVE PERIODIC STRUCTURAL OBSERVATION BY THE STRUCTURAL ENGINEER OF RECORD:
   A. SOIL COMPACTION (BY GEOTECHNICAL ENGINEER)
   B. REINFORCING STEEL PLACEMENT, ANCHOR BOLTS AND EMBEDMENTS
   C. CONCRETE PLACEMENT AND CONSOLIDATION
   D. CONCRETE STRENGTH
   E. INSTALLATION AND TESTING OF MECHANICAL, GROUTED, OR EPOXY ANCHORS, EXPANSION BOLTS, CONCRETE ANCHORS OR REINFORCEMENT
   F. WOOD FRAMING, FASTENING AND HARDWARE
5. THE CONTRACTOR SHALL NOTIFY THE SPECIAL INSPECTORS, TESTING AGENCIES, ARCHITECT, AND STRUCTURAL ENGINEER A MINIMUM OF 48 HOURS (EXCLUDING WEEKEND DAYS) PRIOR TO THE TIME OF A REQUIRED INSPECTION.

SYMBOLS AND ABBREVIATIONS

A/S2.1	SECTION A ON DRAWING S2.1	EA	EACH			SAD	SEE ARCHITECTURAL DRAWING OR SEE ARCHITECTURAL DETAIL
@	AT	EB	EXPANSION BOLT	MATL	MATERIAL	SCD	SEE CIVIL/SITE DRAWINGS
&	AND	EE	EACH END	MAX	MAXIMUM	SCHED	SCHEDULE
#	NUMBER OR POUND	EF	EACH FACE	MB	MACHINE BOLT	SEC	SECTION
(E)	EXISTING	EJ	EXPANSION JOINT	MECH	MECHANICAL	SED	SEE ELECTRICAL DRAWINGS
(N)	NEW	EL	ELEVATION	MFR	MANUFACTURER	SHT	SHEET
		ELEC	ELECTRICAL	MIN	MINIMUM	SHTG	SHEATHING
AB	ANCHOR BOLT	ELEV	ELEVATOR	MISC	MISCELLANEOUS	SIM	SIMILAR
AC	ASPHALT CONCRETE	EMBED	EMBEDMENT	MTL	METAL	SLD	SEE LANDSCAPE DRAWINGS
ADDL	ADDITIONAL	EN	EDGE NAILING			SLRS	SEISMIC LOAD RESISTING
ADJ	ADJACENT	ENGR	ENGINEER	NIC	NOT IN CONTRACT	SYSTEM	
AFF	ABOVE FINISH FLOOR	EQ	EQUAL	NOM	NOMINAL	SMD	SEE MECHANICAL DRAWINGS OR SEE MECHANICAL DETAIL
ALT	ALTERNATE	EQUIP	EQUIPMENT	NTS	NOT TO SCALE	SMS	SHEET METAL SCREW
APPROX	APPROXIMATE	ES	EACH SIDE	NS	NEAR SIDE	SOG	SLAB ON GRADE
ARCH	ARCHITECT OR ARCHITECTURAL	ETC	ETCETERA			SPD	SEE PLUMBING DRAWINGS
ATS	ANCHOR TIEDOWN SYSTEM	EW	EACH WAY	OSB	ORIENTED STRAND BOARD	SPEC(S)	SPECIFICATION(S)
ATTN	ATTENTION	EXC	EXCAVATE	OC	ON CENTER	SQ	SQUARE
		EXT	EXTERIOR	OD	OUTSIDE DIAMETER	SS	SOLID SAWN
BD	BOARD			OH	OPPOSITE HAND	STAG	STAGGERED
BLDG	BUILDING	FDN	FOUNDATION	OPNG	OPENING	STD	STANDARD
BLK	BLOCK	FF	FINISH FLOOR	OPP	OPPOSITE	STIFF	STIFFENER
BLKG	BLOCKING	FIN	FINISH			STL	STEEL
BM	BEAM	FLR	FLOOR	QAP	QUALITY ASSURANCE PROGRAM	STRUCT	STRUCTURAL
BO	BOTTOM OF	FOC	FACE OF CONCRETE			SW	SHEAR WALL
BOT	BOTTOM	FOM	FACE OF MASONRY	P#	STEEL PIPE (# = NOMINAL DIAMETER)	SWL	SHEAR WALL LENGTH
BRB	BUCKLING-RESTRAINED BRACE	FOS	FACE OF STUD			SYM	SYMMETRICAL
BS	BOTH SIDES	FS	FAR SIDE	PERF	PERFORATED		
BTWN	BETWEEN	FT	FEET	PDF	POWDER DRIVEN FASTENER	TB	TIE BEAM
		FTG	FOOTING	PDP	POWDER DRIVEN PIN	T&B	TOP & BOTTOM
C	CONTROL JOINT			PHD	PREDEFLECTED HOLDOWN	TDS	TIEDOWN SYSTEM
CBC	CALIFORNIA BUILDING CODE	GA	GAGE, GAUGE	PL	PLATE	T&G	TONGUE & GROOVE
CJ	CONSTRUCTION JOINT	GALV	GALVANIZED	PP	PARTIAL PENETRATION WELD	THK	THICK
CL	CENTERLINE	GB	GRADE BEAM	PROP	PROPERTY	THRU	THROUGH
CLG	CEILING	GLM	GLUED LAMINATED	PSF	POUNDS PER SQUARE FEET	TN	TOENAIL
CLR	CLEAR	GYP BD	GYPSUM BOARD	PSI	POUNDS PER SQUARE INCH	T.O.	TOP OF
CMU	CONCRETE MASONRY UNIT			PSL	PARALLAM PARALLEL STRAND LUMBER	TOC	TOP OF CONCRETE
COL	COLUMN	HD	HOLDOWN	PT	PRESSURE TREATED DOUGLAS FIR LUMBER	TOF	TOP OF FOOTING
CONC	CONCRETE OR CONCENTRATED	HDG	HOT-DIPPED GALVANIZED	PTDF		TOM	TOP OF PARAPET
COND	CONDITION	HDR	HEADER			TO PW	TOP OF PLYWOOD
CONN	CONNECTION	HGR	HANGER	PTN	PARTITION	TOS	TOP OF STEEL OR SLAB
CONT	CONTINUOUS	HOR	HORIZONTAL	PW	STRUCTURAL PLYWOOD	TOW	TOP OF WALL
CP	COMPLETE PENETRATION WELD	HP	HIGH POINT	PW EN	PLYWOOD EDGE NAILING	TYP	TYPICAL
CTSK	COUNTERSINK	HSB	HIGH STRENGTH BOLT				
		HSS	HOLLOW STEEL SECTION	RAD	RADIUS	UON	UNLESS OTHERWISE NOTED
d	DIAMETER OR PENNY	HT	HEIGHT	RBS	REDUCED BEAM SECTION	URM	UNREINFORCED MASONRY
D	DEPTH			RDP	REGISTERED DESIGN PROFESSIONAL		
DBL	DOUBLE	ID	INSIDE DIAMETER	REF	REFERENCE	VENT	VENTILATION
DC	DOUBLE CURTAIN REINFORCEMENT IN WALLS W/ REINFORCEMENT ON EACH FACE	IF	INSIDE FACE	RECT	RECTANGULAR	VERT	VERTICAL
		INT	INTERIOR	REINF	REINFORCING	VIF	VERIFY IN FIELD
DCW	DEMAND CRITICAL WELD	INV	INVERT	REQD	REQUIRED		
DEMO	DEMOLISH	JST	JOIST	RET WALL	RETAINING WALL	W/	WITH
DET	DETAIL	JT(S)	JOINT(S)	RW	REDWOOD LUMBER	WD	WOOD
DF	DOUGLAS FIR					WF	WIDE FLANGE
DIA	DIAMETER	K	KIPS (1000 LBS)			WHS	NELSON WELDED HEADED STUDS
DIAG	DIAGONAL					W/O	WITHOUT
DIM(S)	DIMENSION(S)	LBS	POUNDS			WP	WATERPROOF OR WORK POINT
DJ	DOUBLE JOIST	LG	LONG			WT	WEIGHT
DL	DEAD LOAD	LL	LIVE LOAD			WTS	NELSON WELDED THREADED STUDS
DN	DOWN	LLH	LONG LEG HORIZONTAL			WWF	WELDED WIRE FABRIC
DO	DITTO	LLV	LONG LEG VERTICAL			WWM	WELDED WIRE MESH
DP	DEEP	LP	LOW POINT				
DTLS	DETAILS	LT	LIGHT				
DWG(S)	DRAWING(S)	LTWT	LIGHTWEIGHT				
D2L	NELSON WELDED DEFORMED BARS						

SYMBOLS AND NOTATIONS

CONCRETE WALL IN PLAN (TILT-UP PANELS)

NEW CMU WALL IN PLAN

FOOTINGS BELOW GRADE

DETAIL REFERENCES

7/S5.1 REFERENCES DETAIL 7 ON DWG / SHEET S5.1.

7/- REFERENCES DETAIL 7 ON SAME DWG / SHEET AS REFERENCED FROM.

7 / S5.1 — **REFERENCES DETAIL 7 ON DWG / SHEET S5.1.**

7 / - — **REFERENCES DETAIL 7 ON SAME DWG / SHEET AS REFERENCED FROM.**

RTU 138 / 500 — **REFERENCES A MECHANICAL UNIT WITH ID BY MECH ENGINEER AND MAX WEIGHT (500 LBS) AT BOTTOM.**

Project Title:

CITY OF BERKELEY
PARKS, RECREATION & WATERFRONT DEPARTMENT

MLK JR. YOUTH SERVICES CENTER / YAP SEISMIC RETROFIT AND RENOVATION

1730 Oregon Street, Berkeley, CA 94703
APN#: 053-1676-001-02

Design Firm:
SIEGEL & STRAIN Architects
6201 Doyle Street, Suite B
Emeryville, CA 94608
TEL 510 / 547-8092
info@siegelstrain.com

Consultant:
IDA STRUCTURAL ENGINEERS
ida-se.com
1629 Telegraph Ave,
Oakland, CA 94612
TEL 510 / 834-1629

Stamp:

REGISTERED PROFESSIONAL ENGINEER — JASON M. LEE — No. S4980 — STRUCTURAL — STATE OF CALIFORNIA

Signed on 02/28/2025

No.	Description	Date
	PERMIT SET	12/04/24
1	PLAN CHECK #1	03/07/25

Issue Note: PERMIT RESUBMITTAL 03/07/25

City Plan No.:	8286
City File No.:	402-145
Specification No.:	#25-11695-C
Drawn by:	Author
Checked by:	Checker
Plot Date:	02/28/2025
Scale:	3/4" = 1'-0"

Sheet Title:

GENERAL NOTES CONT.

Sheet No.:

S1.02

3/5/2025 12:43:49 PM

Low Carbon Concrete Compliance Form (maximum GWP pathway)

This form shall be completed by the party indicated under each section for compliance with project Low-Carbon Concrete requirements

Project name: MLK Jr. YAP Bldg Location: 1730 Oregin St. Berkeley Owner: City of Berkeley

DESIGN TEAM TO COMPLETE FOR PLAN CHECK APPROVAL							CONCTRACTOR TO COMPLETE			
Structural engineer shall complete and include within concrete specification of the Project Manual submitted to the building department for plan check.							*General Contractor shall complete and submit to the Architect within 6 weeks of completion of the concrete work.*			
Date:	2/28/2025						Date:			
Structural Engineer Company Name:	IDA Structural Engineers						Company Name:			
Signature:							Signature:			
Print Name:	Jason Lee SE						Print Name:			
Mix name	Design strength, f'c **per spec** (psi)	Early strength?	GWP Limit **per Code** ($kgCO_2e/m^3$)	Used for (e.g. foundation, retaining wall, shotcrete, etc.)	Volume Estimated (cyd)	Max GWP **per spec** ($kgCO_2e/m^3$)	Volume Supplied (cyd)	Concrete Supplier Name	Concrete Batch Code	GWP **reported on EPD** ($kgCO_2e/m^3$)
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
	4000	Y	313	Foundation		313				
	4000	Y	313	Slab		313				
	4000	Y	313	Topping Slab		313				
	up to 2500	Y	260	Lean Concrete		260				
			0			0				
			0			0				
			0			0				
			0			0				
			0			0				
			0			0				
These rows only need to be used if project team is pursuing budget method	Total GWP of all concrete expected on Project (lbs)					-	Total GWP of all concrete used on Project (lbs)			-
	Total GWP allowed for all concrete on Project (lbs)					-	Total GWP allowed for all concrete on Project (lbs)			-
	In compliance?					Yes	In compliance?		--	incomplete
For use by building dept:	Signature of Approval in Plan Check:						Signature of Approval for TCO Permit:			
	Print Name:						Print Name:			
	Date:						Date:			

Notes for columns:

(1) Use a unique name for each concrete mix matching the mark used in the drawings or specifications if possible.

(2) f'c at day of strength specified, does not need to be at 28 days, select from drop-down list.

(3) Select "Y" if application needs early strength. Otherwise select "N".

(4) Auto look-up from 'Table of Cement and GWP limits' on 'Instructions' tab, multiplied by 1.3 if value in (3) is "Y"

(5) Should match specification; applications that need early strength should be listed separately.

(6) Input best estimate for concrete volume. Contractor will update with actual volume later. If using budget method, all cells must be filled in, USE ZERO FOR EMPTY ROWS

(7) Input max GWP content listed in spec. ALL CELLS MUST BE FILLED IN, USE ZERO FOR EMPTY ROWS

(8) List actual volume poured on the project. If using budget method, all cells must be filled in, USE ZERO FOR EMPTY ROWS

(9) List concrete supplier name.

(10) Input the batch code listed on the EPD of the concrete mix submittal.

(11) Input the GWP from EPD in submittal. ALL CELLS MUST BE FILLED IN, USE ZERO FOR EMPTY ROWS

1 / S1.03 **LOW CARBON CONCRETE COMPLIANCE FORM**

1" = 1'-0"

Project Title:

CITY OF BERKELEY
PARKS, RECREATION & WATERFRONT DEPARTMENT

MLK JR. YOUTH SERVICES CENTER / YAP SEISMIC RETROFIT AND RENOVATION

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Stamp:

REGISTERED PROFESSIONAL ENGINEER · JASON M. LEE · No. S4980 · STRUCTURAL · STATE OF CALIFORNIA

Signed on 02/28/2025

No.	Description	Date
	PERMIT SET	12/04/24
1	PLAN CHECK #1	03/07/25

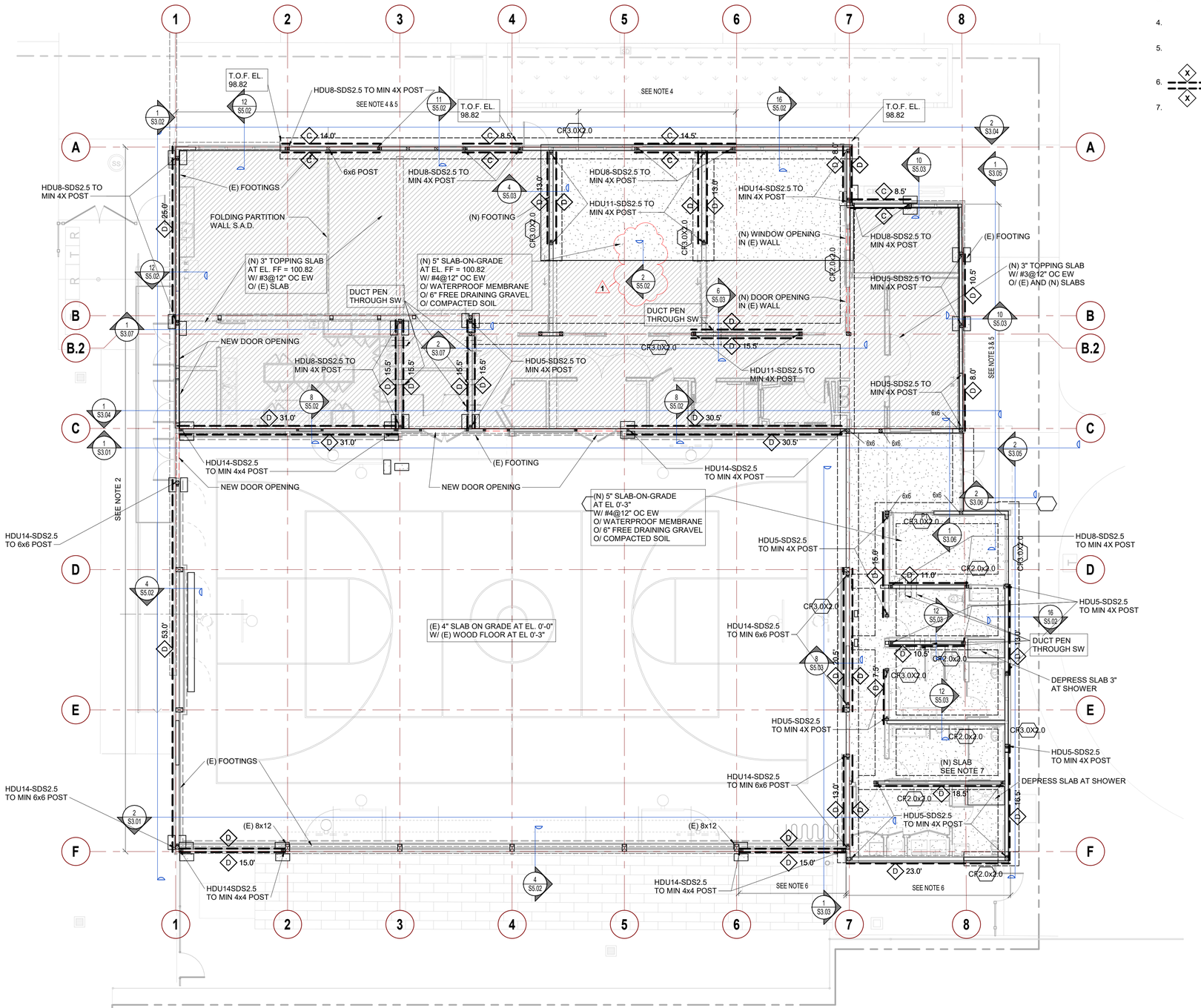
Issue Note: PERMIT RESUBMITTAL 03/07/25

City Plan No.:	8286
City File No.:	402-145
Specification No.:	#25-11695-C
Drawn by:	Author
Checked by:	Checker
Plot Date:	02/28/2025
Scale:	1" = 1'-0"

Sheet Title: LOW CARBON COMPLIANCE FORM

Sheet No.: S1.03

3/5/2025 12:43:50 PM



1 S2.01 **FOUNDATION AND FIRST FLOOR PLAN**

1/8" = 1'-0"

SHEET NOTES

1. SEE GENERAL NOTES AND TYPICAL DETAILS FOR INFORMATION NOT SHOWN HEREIN.
2. DENOTES NEW WALL INFILL TO MATCH EXISTING, UON. AT EXISTING WINDOWS OUT OF PLANE NOT SHOWN ON PLAN TO BE DEMOLISJ, PROVIDE NEW WALLS INFILLS TO MATCH EXISTING. SEE ARCHITECTURAL ELEVATIONS FOR LOCATION.
3. FRAME WALLS WITH 7 1/4" STUDS AT 16" OC, 1/2" SHEATHING, 1" SHEATHING/SIDING AND 1" STUCCO TO MATCH EXISTING WALL CONDITION.
4. FRAME WALLS WITH 5 1/2" STUDS AT 16" OC, 1/2" SHEATHING, 1" SHEATHING/SIDING AND 1" STUCCO TO MATCH EXISTING WALL CONDITION.
5. REFRAME WALLS PER NOTE 3 OR 4 CONDITION WHERE EXISTING WINDOWS SHALL BE DEMOLISH AND NEW WINDOWS TO BE ADDED. SEE ARCHTIECTURAL ELEVATIONS FOR LOCATION.
6. DENOTES 1/2" NEW SHEATHING TO WALL. WHERE WALLS SHOWN DOUBLE DASHED SHEATHING, PROVIDE SHEATHING EACH SIDE OF WALL.
7. (N) 5" CONC SLAB ON GRADE WITH #4 AT 12" OC EACH WAY OVER WP MEMBRANE OVER 6" GRAVEL OVER COMPACTED SUBGRADE.

0 4' 8' 16'

N

Project Title:

CITY OF BERKELEY
PARKS, RECREATION & WATERFRONT DEPARTMENT

MLK JR. YOUTH SERVICES CENTER / YAP SEISMIC RETROFIT AND RENOVATION

1730 Oregon Street, Berkeley, CA 94703
APN#: 053-1676-001-02

Design Firm:
SIEGEL & STRAIN Architects
6201 Doyle Street, Suite B
Emeryville, CA 94608
TEL 510 / 547-8092
info@siegelstrain.com

Consultant:
IDA STRUCTURAL ENGINEERS
ida-se.com
1629 Telegraph Ave,
Oakland, CA 94612
TEL 510 / 834-1629

Stamp:

REGISTERED PROFESSIONAL ENGINEER JASON M. LEE No. S4980 STRUCTURAL STATE OF CALIFORNIA

Signed on 02/28/2025

No.	Description	Date
	PERMIT SET	12/04/24
1	PLAN CHECK #1	03/07/25

Issue Note: PERMIT RESUBMITTAL 03/07/25

City Plan No.:	8286
City File No.:	402-145
Specification No.:	#25-11695-C
Drawn by:	JK
Checked by:	JK
Plot Date:	02/28/2025
Scale:	As indicated

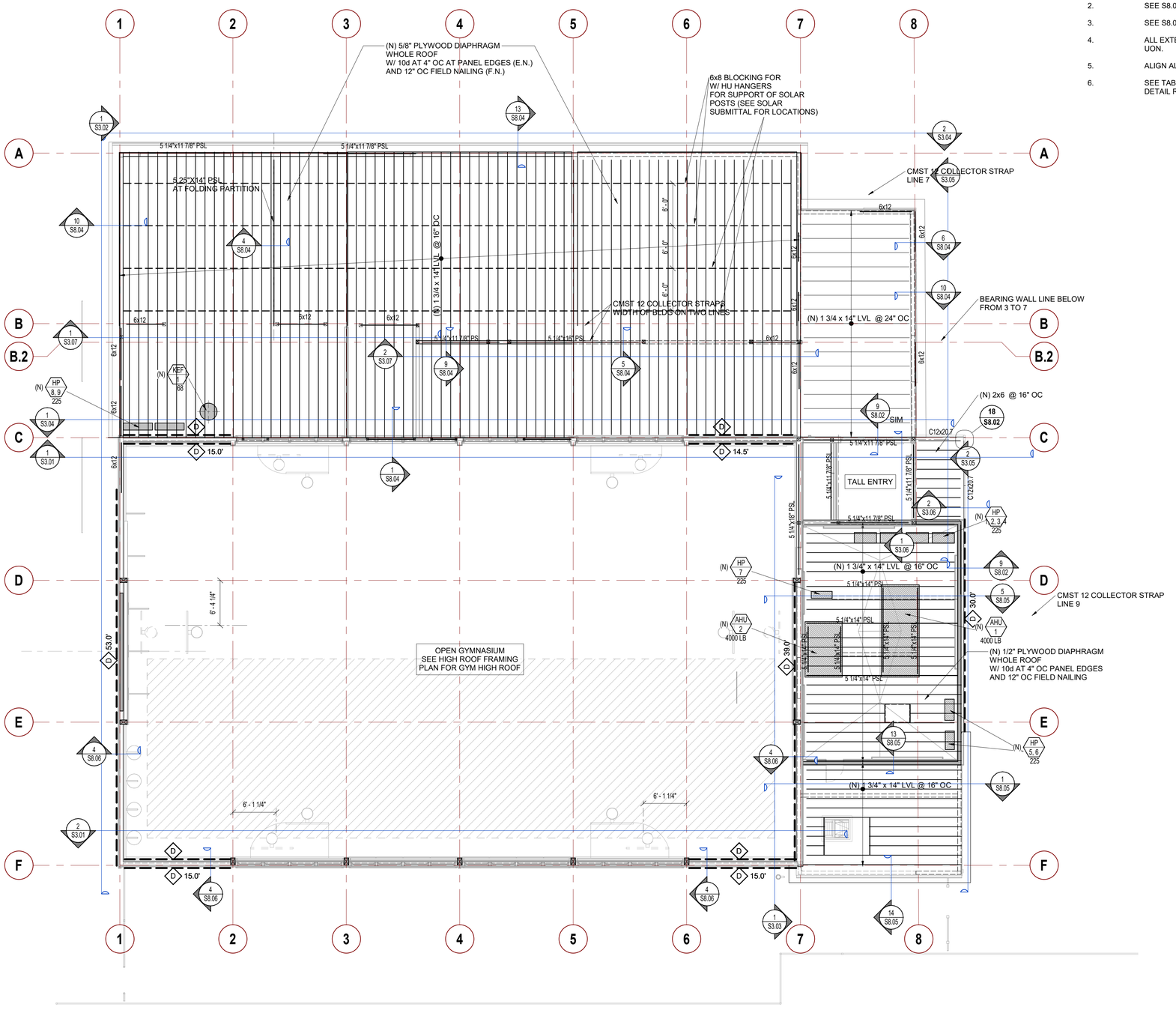
Sheet Title:

FOUNDATION AND FIRST FLOOR PLAN

Sheet No.:

S2.01

3/5/2025 12:43:51 PM



ROOF FRAMING SHEET NOTES:

1. SEE GENERAL NOTES ON S1.01 AND 1.02 FOR ADDITIONAL INFORMATION NOT SHOWN HEREIN.
2. SEE S8.01 - S8.03 FOR WOOD FRAMING TYPICAL DETAILS.
3. SEE S8.01 - S8.04 FOR WALL FRAMING DETAILS.
4. ALL EXTERIOR WALLS SHALL BE SHEATHED WITH 1/2 PLYWOOD WITH (B) SHEAR WALL MARK UON.
5. ALIGN ALL ROOF JOISTS WITH WALL STUDS BELOW TO THE FULLEST EXTENT POSSIBLE.
6. SEE TABLE ON SHEET S8.09 FOR MECHANICAL UNIT TYPE, MAXIMUM WIEGHT, AND FRAMING DETAIL REFERENCE. SEE MECHANICAL DRAWINGS FOR ADDITIONAL INFO.

1 S2.02 LOW ROOF FRAMING PLAN
1/8" = 1'-0"

0 4' 8' 16'

N

Project Title:

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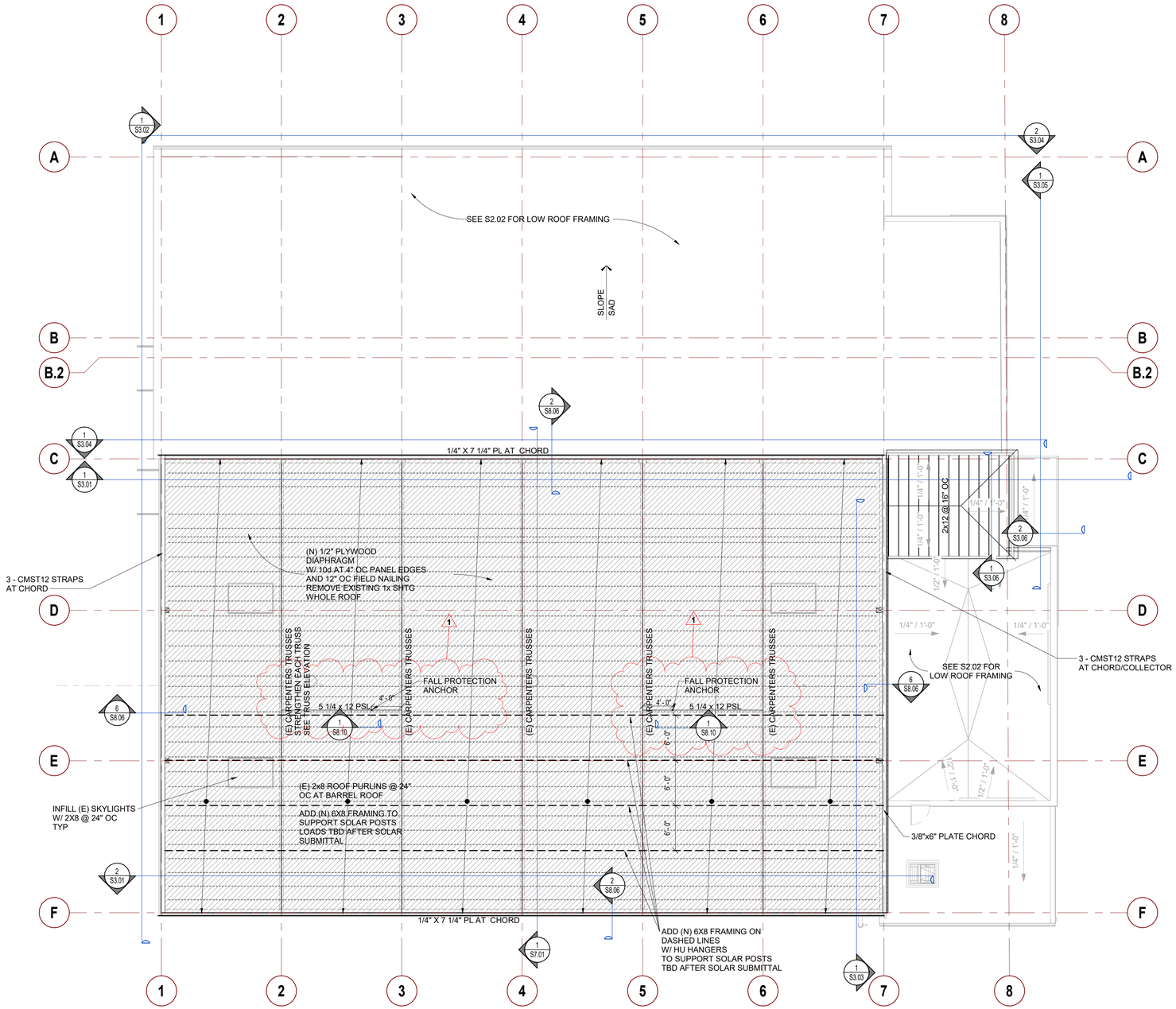
Issue Note: PERMIT RESUBMITTAL 03/07/25

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City File No.:	402-145
Specification No.:	#25-11695-C
Drawn by:	JK
Checked by:	JK
Plot Date:	02/28/2025
Scale:	1/8" = 1'-0"

Sheet Title:
LOW ROOF FRAMING PLAN

Sheet No.:
S2.02

3/5/2025 12:43:52 PM



ROOF FRAMING SHEET NOTES:

1. SEE GENERAL NOTES ON S1.01 AND 1.02 FOR ADDITIONAL INFORMATION NOT SHOWN HEREIN.
2. SEE S8.01 - S8.03 FOR WOOD FRAMING TYPICAL DETAILS.
3. SEE S8.01 - S8.04 FOR WALL FRAMING DETAILS.
4. ALL EXTERIOR WALLS SHALL BE SHEATHED WITH 1/2 PLYWOOD WITH ◇B◇ SHEAR WALL MARK UON.
5. ALIGN ALL ROOF JOISTS WITH WALL STUDS BELOW TO THE FULLEST EXTENT POSSIBLE.
6. SEE TABLE ON SHEET S8.09 FOR MECHANICAL UNIT TYPE, MAXIMUM WIEGHT, AND FRAMING DETAIL REFERENCE. SEE MECHANICAL DRAWINGS FOR ADDITIONAL INFO.

1 / S2.03 **HIGH ROOF FRAMING PLAN**
1/8" = 1'-0"

0 4' 8' 16'

Project Title:

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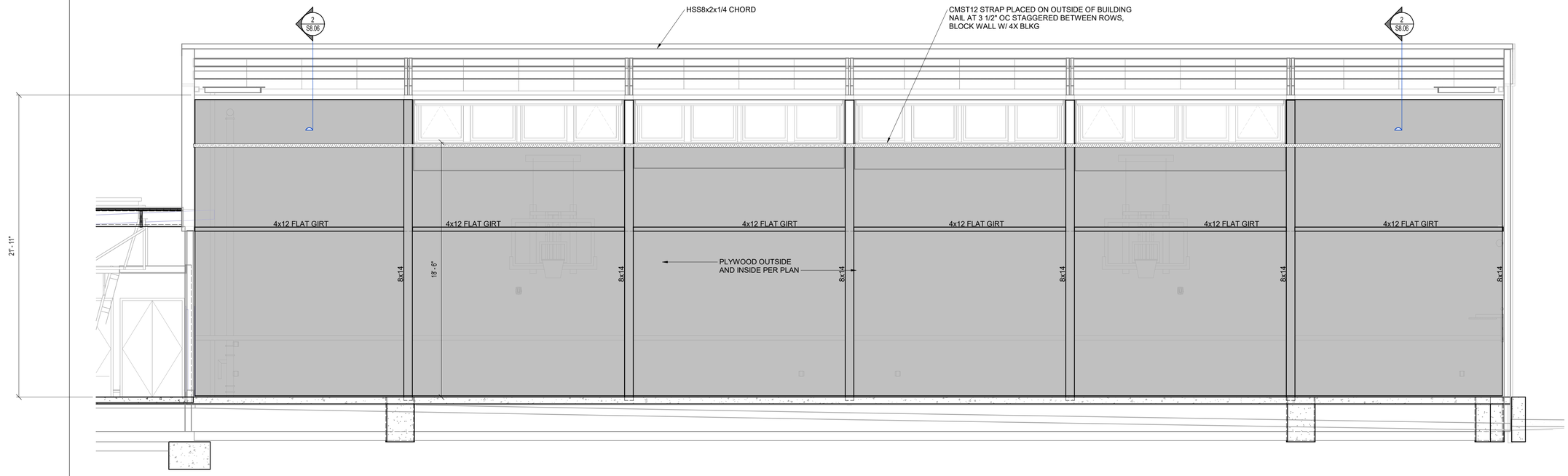
Issue Note: PERMIT RESUBMITTAL 03/07/25

City Plan No.:	8286
City File No.:	402-145
Specification No.:	#25-11695-C
Drawn by:	Author
Checked by:	Checker
Plot Date:	02/28/2025
Scale:	1/8" = 1'-0"

Sheet Title:
HIGH ROOF PLAN

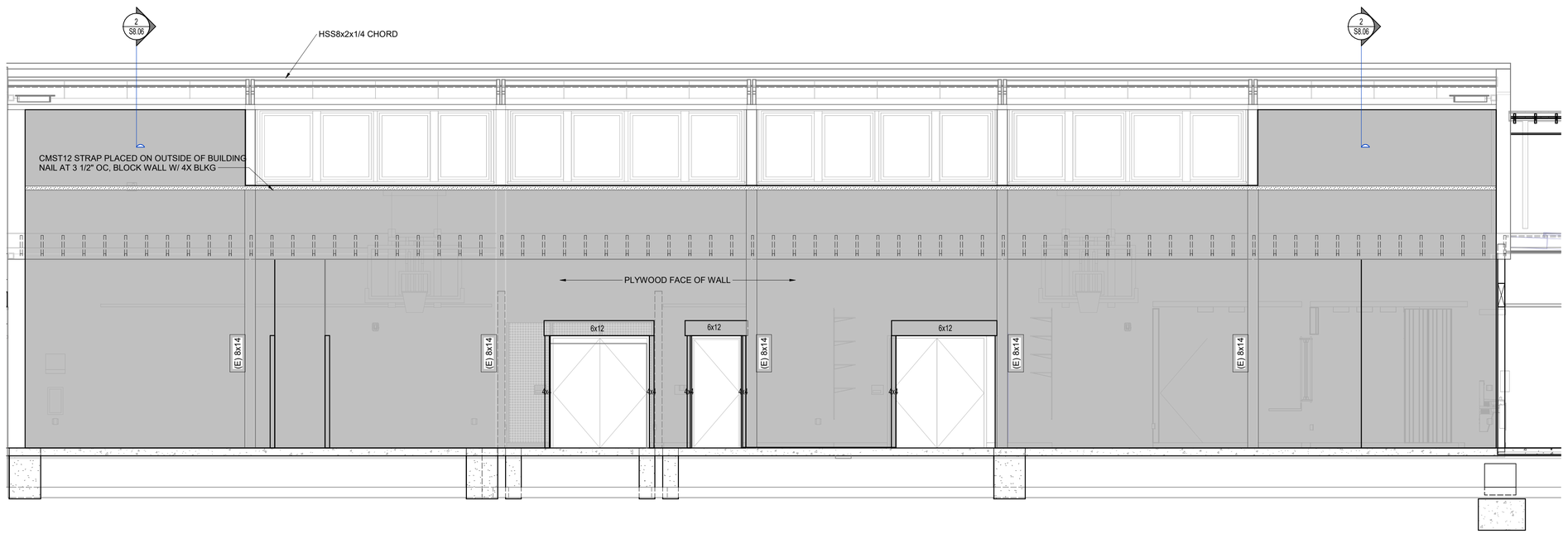
Sheet No.:
S2.03

3/5/2025 12:43:54 PM



2 / S3.01 ELEVATION GYM WALL ON GRID LINE F

1/4" = 1'-0"



1 / S3.01 ELEVATION GYM WALL ON GRID LINE D

1/4" = 1'-0"

Project Title:

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Plot Date:	02/28/2025
Scale:	1/4" = 1'-0"

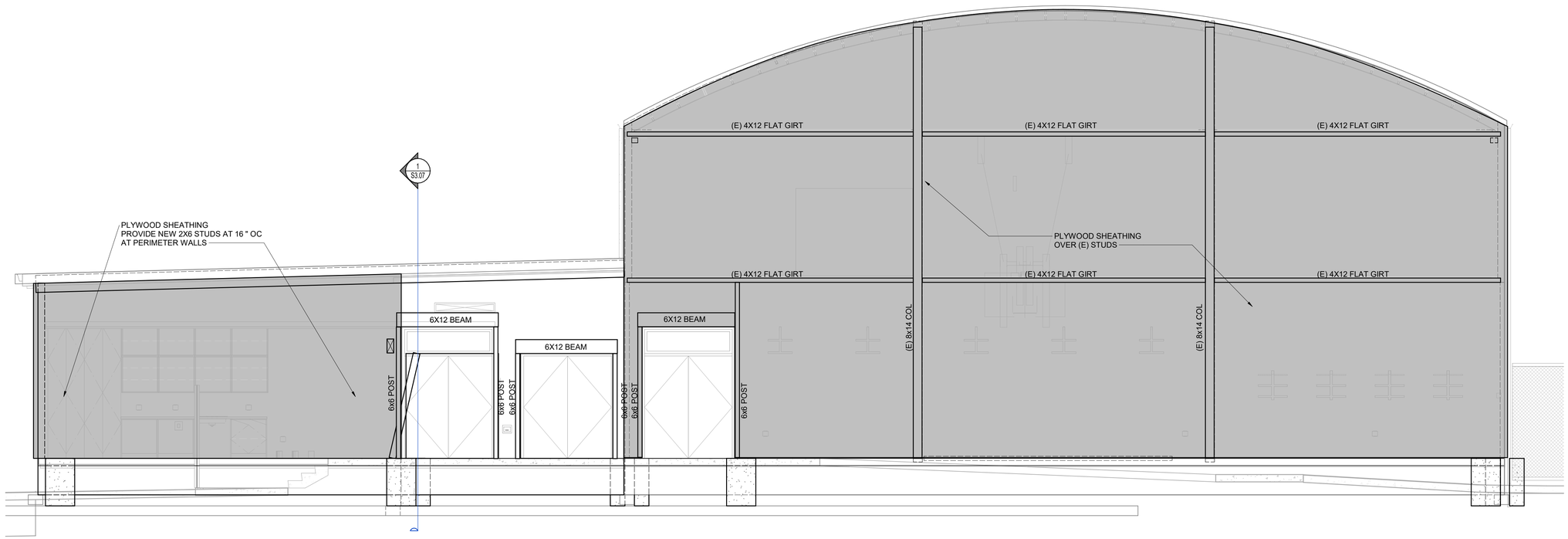
Sheet Title:

WALL ELEVATIONS

Sheet No.:

S3.01

3/5/2025 12:43:55 PM



1
S3.02

ELEVATION OF GYM WALL ON LINE 1

1/4" = 1'-0"

Project Title:

CITY OF BERKELEY
PARKS, RECREATION & WATERFRONT DEPARTMENT

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Plot Date:	02/28/2025
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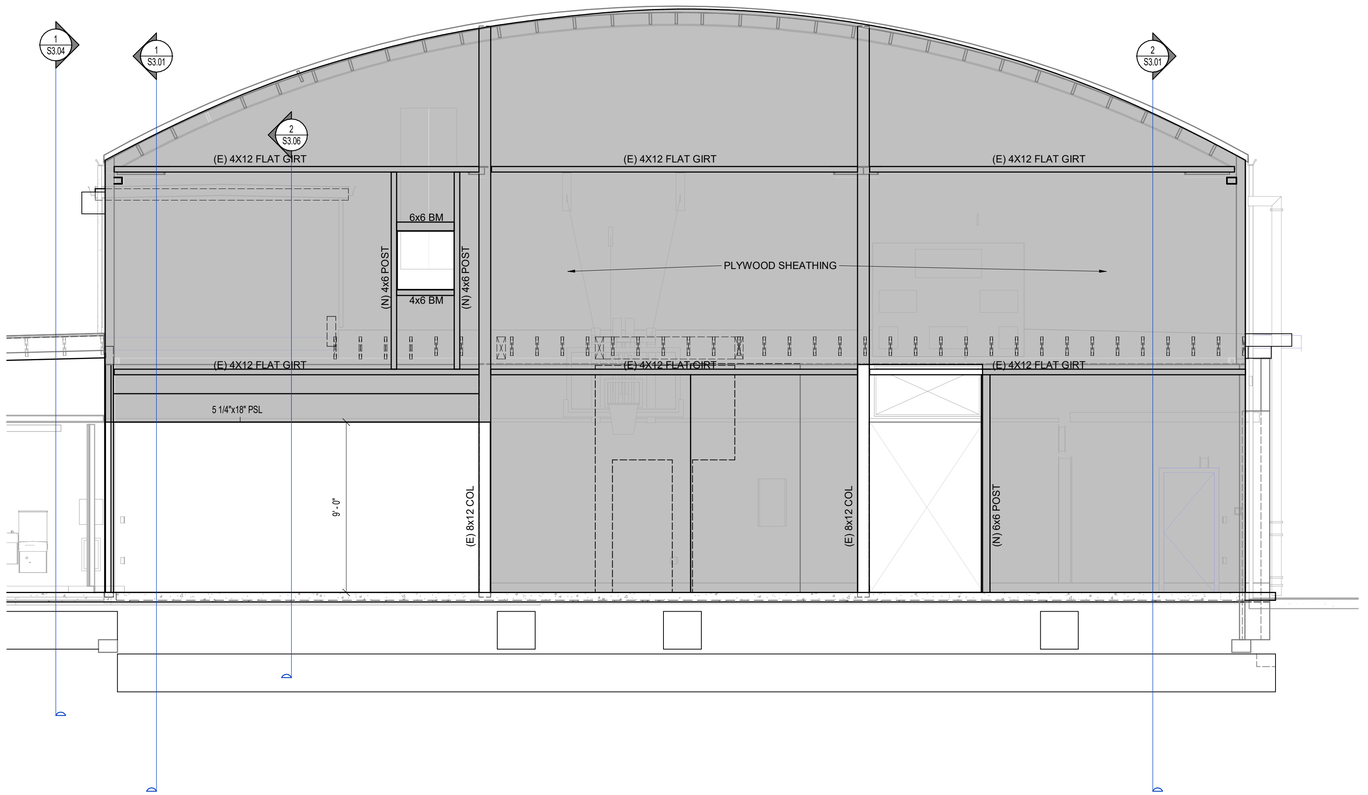
Sheet Title:

WALL ELEVATIONS

Sheet No.:

S3.02

3/5/2025 12:43:56 PM



1 S3.03 ELEVATION OF GYM WALL ON LINE 7

1/4" = 1'-0"

Project Title:

CITY OF BERKELEY
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Plot Date:	02/28/2025
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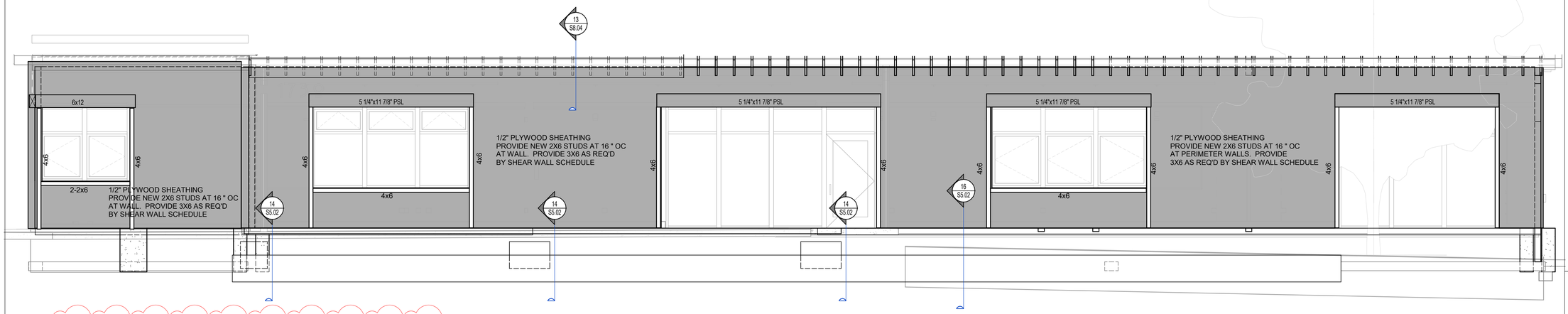
Sheet Title:

WALL ELEVATIONS

Sheet No.:

S3.03

3/5/2025 12:43:57 PM



2 S3.04 NORTH ELEVATION AT GRID LINE A

1/4" = 1'-0"



1 S3.04 NORTH ELEVATION AT GRID LINE C

1/4" = 1'-0"

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

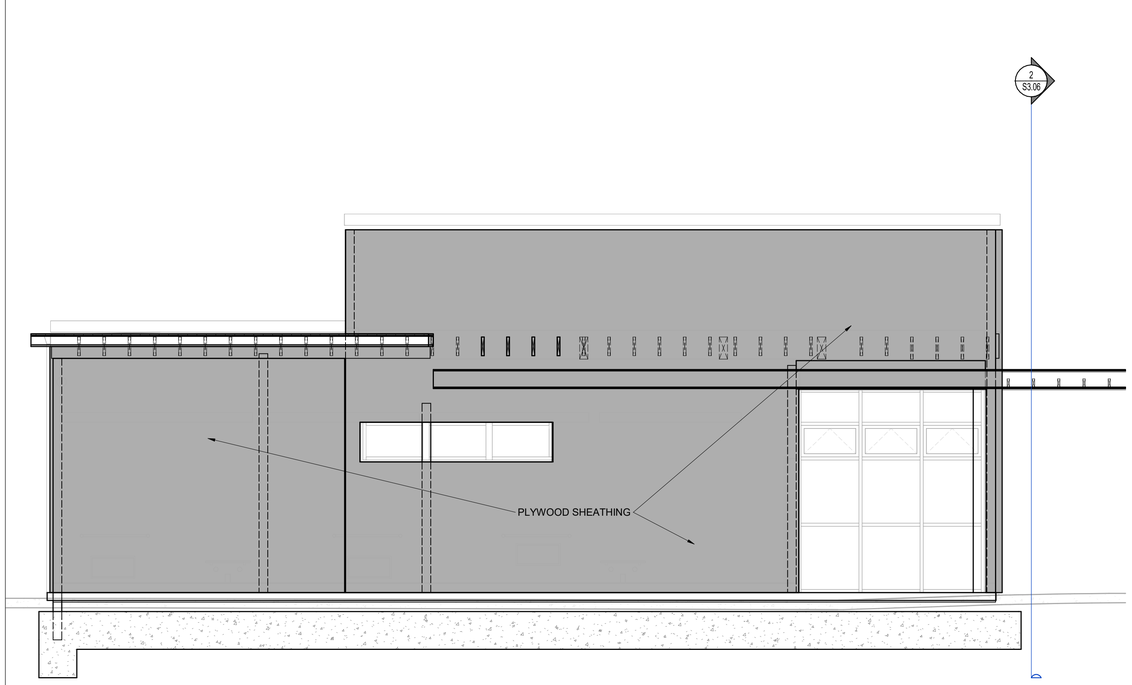
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WALL ELEVATIONS

Sheet No.:

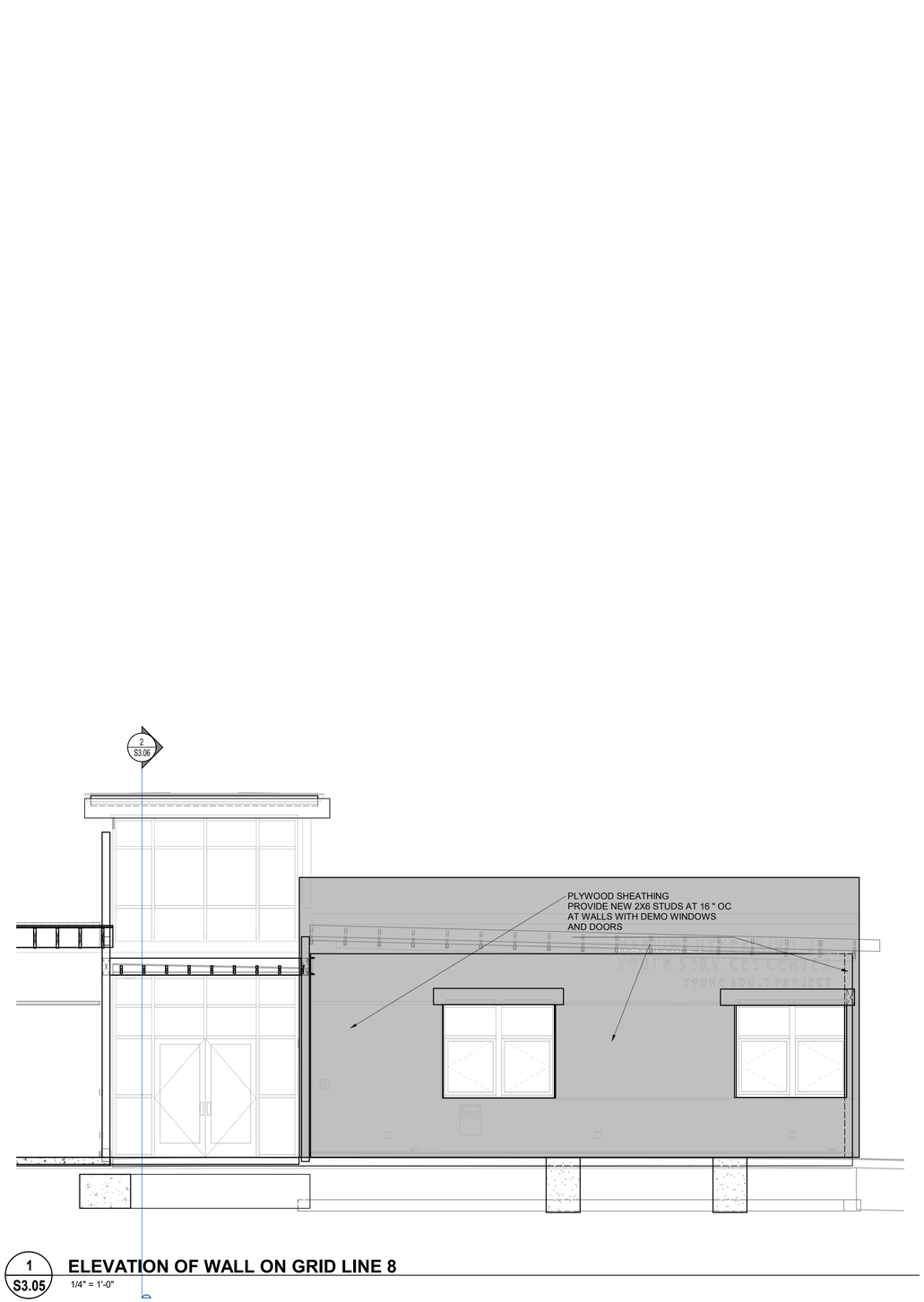
S3.04

3/5/2025 3:58:50 PM



2 S3.05 **ELEVATION OF WALL ON GRID LINE 9**

1/4" = 1'-0"



1 S3.05 **ELEVATION OF WALL ON GRID LINE 8**

1/4" = 1'-0"

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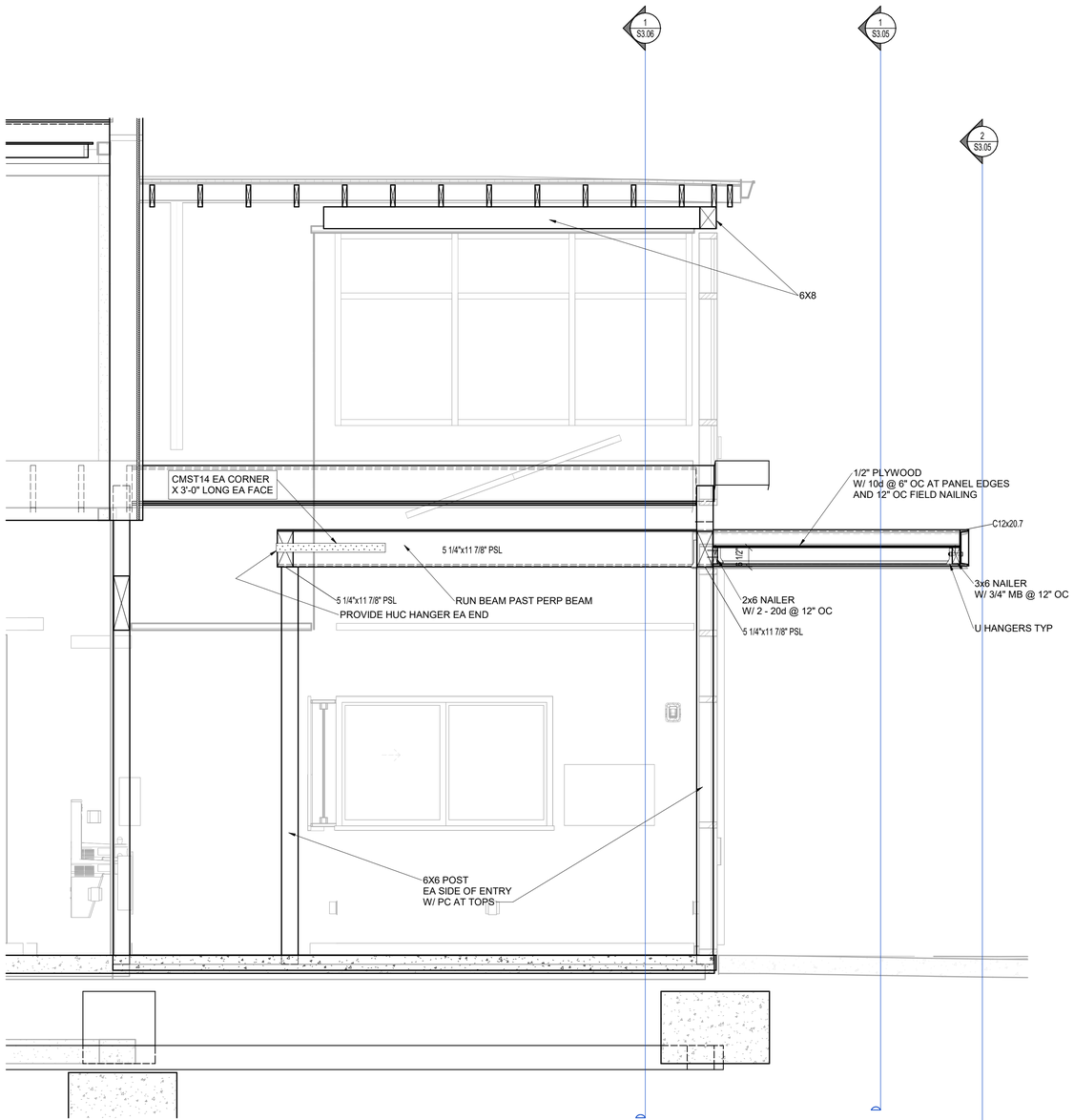
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WALL ELEVATIONS

Sheet No.:

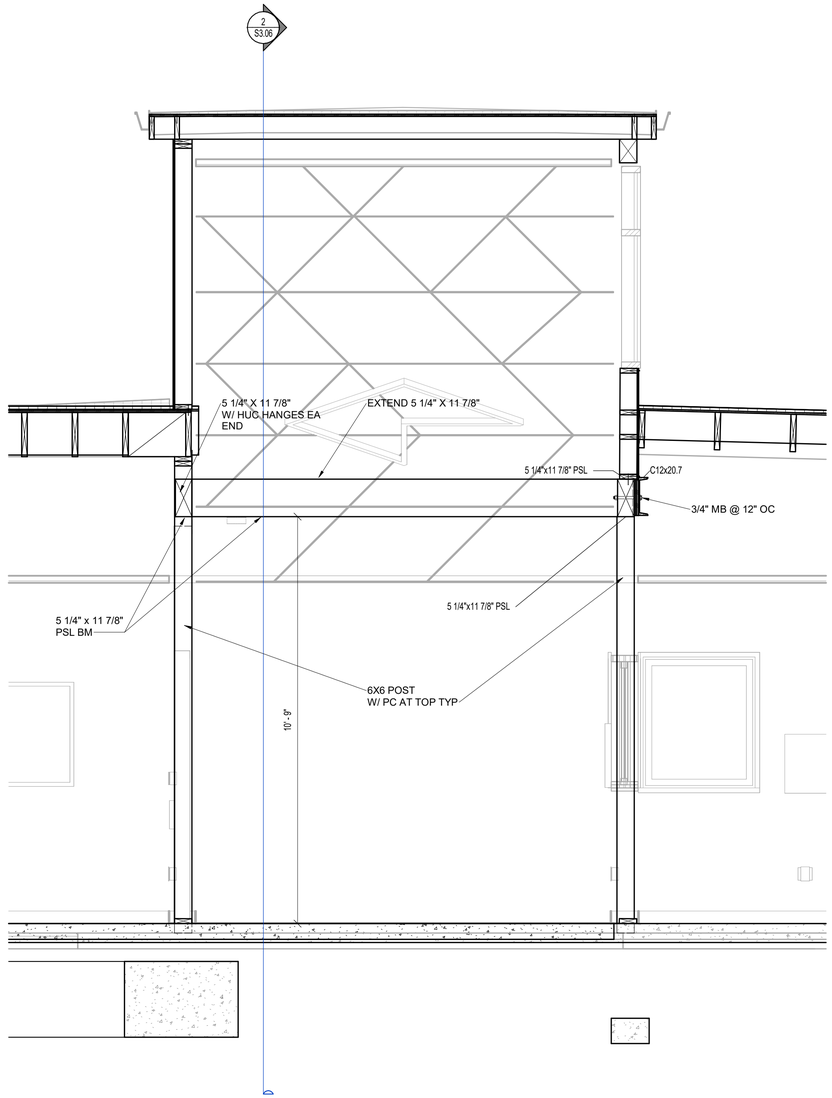
S3.05

3/5/2025 12:43:59 PM



2 S3.06 **SECTION AT ENTRY LOOKING NORTH**

1/2" = 1'-0"



1 S3.06 **SECTION AT ENTRY LOOKING WEST**

1/2" = 1'-0"

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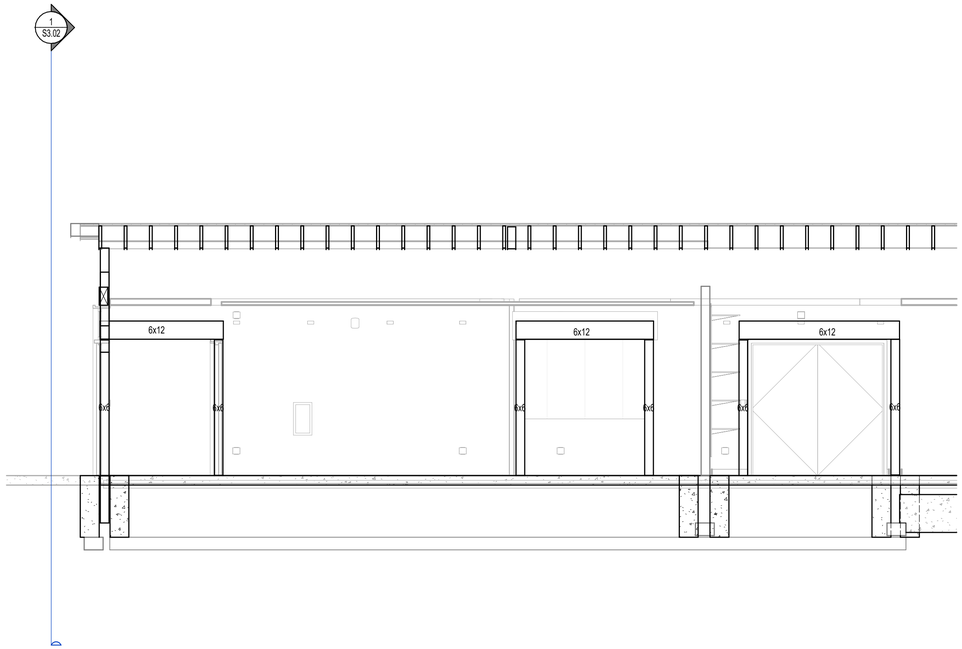
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SECTIONS AT ENTRY

Sheet No.:

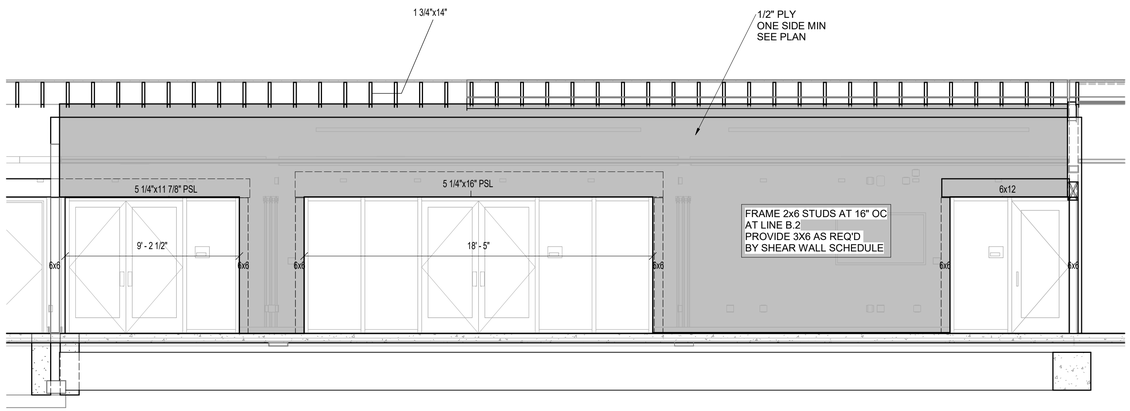
S3.06

3/5/2025 12:44:00 PM



1 S3.07 ELEVATION OF LINE B

1/4" = 1'-0"



2 S3.07 ELEVATION OF LINE B.2

1/4" = 1'-0"

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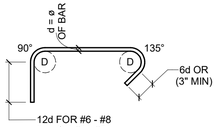
WALL ELEVATIONS

Sheet No.:

S3.07

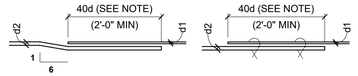
3/5/2025 12:44:01 PM

STANDARD HOOKS AND BENDS



D=6d FOR #3 THRU #9
D=8d FOR #9 THRU #11
D=10d FOR #14 THRU #18
(FOR STIRRUPS & COLUMN TIES,
D=2d WITH EXTENSION
OF 6d OR 3" MIN)

TIES AND STIRRUPS



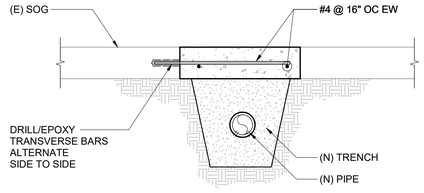
OFFSET AND SPLICES

LAP SPLICES

NOTE:
ALL LAP SPLICES ARE
CLASS B LAP SPLICES

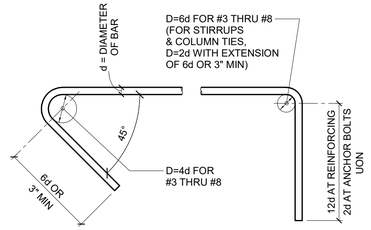
F003a TYPICAL REINFORCING BAR BENDS

14 S5.01 NTS



9 S5.01 TYPICAL TRENCH INFILL

NTS



STD 135° HOOK STD 90° HOOK

F003 TYPICAL REINFORCING BAR & ANCHOR BOLT HOOK

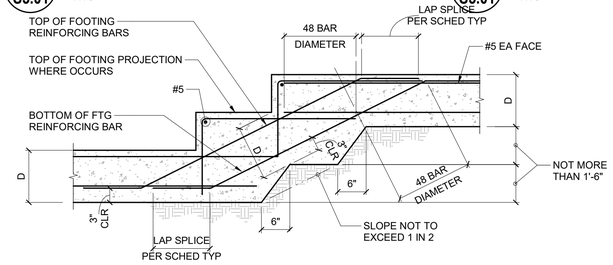
13 S5.01 NTS

CONCRETE STRENGTH PSI	BAR TYPE	BAR SIZE																	
		#3		#4		#5		#6		#7		#8		#9		#10		#11	
		CLASS		CLASS		CLASS		CLASS		CLASS		CLASS		CLASS		CLASS		CLASS	
		A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B
2500	TOP BAR	24	31	32	41	39	51	47	61	69	89	78	102	88	115	100	129	110	143
	ALL OTHER BARS	18	24	24	32	30	39	36	47	53	69	60	78	68	88	77	100	85	110
3000	TOP BAR	22	28	29	37	36	47	43	56	63	81	72	93	81	105	91	118	101	131
	ALL OTHER BARS	17	22	22	29	28	36	33	43	48	63	55	72	62	81	70	91	78	101
4000	TOP BAR	19	24	25	33	31	41	37	49	54	71	62	81	70	91	79	102	87	113
	ALL OTHER BARS	15	19	19	25	24	31	29	37	42	54	48	62	54	70	61	79	67	87
5000	TOP BAR	17	22	23	29	28	36	34	43	49	63	56	72	63	81	70	92	78	102
	ALL OTHER BARS	13	17	17	23	22	28	26	34	38	49	43	56	48	63	54	70	60	78

NOTES:
1. SPLICE LENGTH IN INCHES.
2. USE CLASS B FOR ALL LAP SPLICES EXCEPT CLASS A MAY BE USED FOR NON-STRUCTURAL SLABS ON GRADE.
3. TOP BARS = HORIZONTAL BARS (OTHER THAN IN WALLS) PLACED WITH MORE THAN 12" OF FRESH CONCRETE CAST BELOW BARS.
4. TABLE IS BASED UPON MINIMUM CLEAR COVER GREATER THAN ONE BAR DIAMETER AND MINIMUM CLEAR SPACING GREATER THAN TWO BAR DIAMETERS. WHERE EITHER OF THESE REQUIREMENTS IS NOT MET, INCREASE LAP LENGTH BY 50%.

5 S5.01 REINFORCING BAR LAP SPLICE SCHEDULE IN CONCRETE

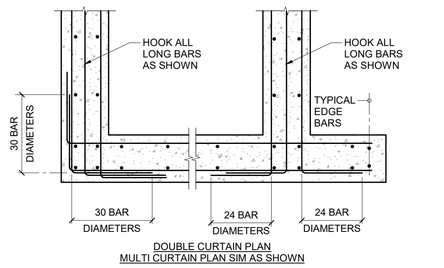
3/4" = 1'-0"



NOTE:
SEE FOUNDATION PLAN FOR WHERE REQUIRED OR AS REQUIRED DUE TO FIELD CONDTIONS.

10 S5.01 F006-2 TYPICAL STEPPED FOOTING

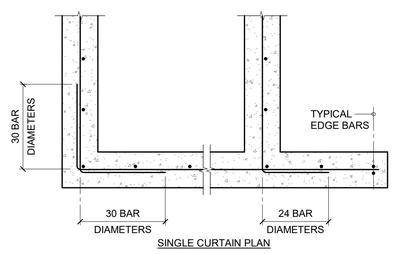
NTS



DOUBLE CURTAIN PLAN
MULTI CURTAIN PLAN SIM AS SHOWN

6 S5.01 TYPICAL REINFORCING AT WALLS & FOOTING CORNERS

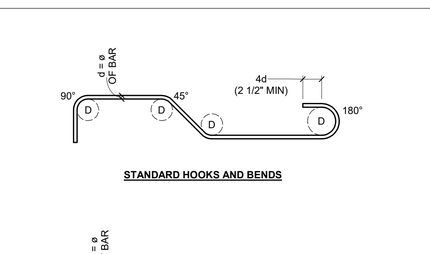
NTS



SINGLE CURTAIN PLAN

2 S5.01 TYPICAL REINFORCING AT WALL & FOOTING CORNERS

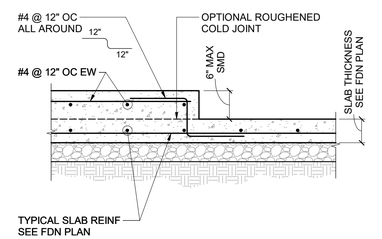
NTS



NO PARALLEL TRENCH OR PIPES SHALL BE PLACED BELOW THIS LINE. NO PIPES SHALL PASS UNDER FOOTINGS UNLESS EMBEDDED IN CONCRETE AS SHOWN BELOW.

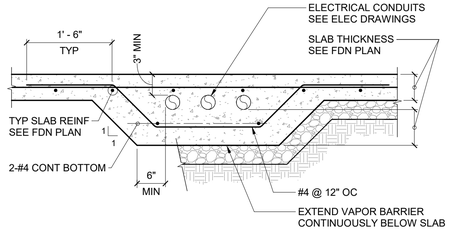
16 S5.01 RELATION OF PIPES & TRENCHES TO (E) SPREAD FTG

NTS



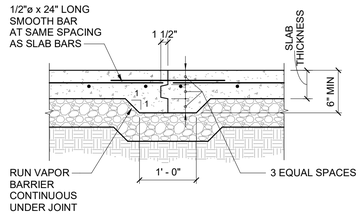
11 S5.01 MECHANICAL EQUIPMENT PAD ON GRADE

NTS



7 S5.01 CONDUIT PENETRATION IN SLAB ON GRADE

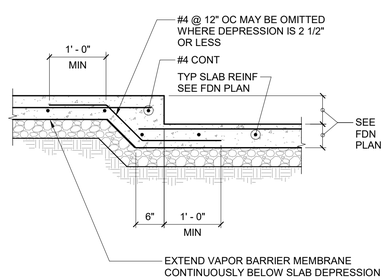
NTS



NOTE:
PROVIDE CONSTRUCTION JOINTS (CJ) AT LOCATIONS SHOWN ON PLANS OR AT OTHER LOCATIONS PENDING ARCHITECT'S PRIOR APPROVAL. WHEN USING KEYED COLD JOINTS, POUR SLABS IN CHECKERBOARD PATTERN METAL KEY JOINTS MAY BE USED AT CONTRACTOR'S OPTION.

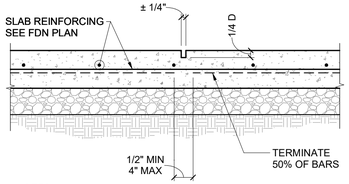
3 S5.01 CONSTRUCTION JOINT (CJ) CONCRETE SLAB ON GRADE

NTS



12 S5.01 DEPRESSED SLAB ON GRADE

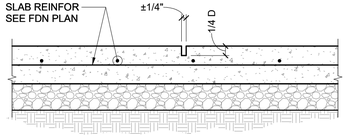
NTS



NOTES:
1. CONTINUOUS SAWCUT CONTROL JOINT. CUT SLAB IMMEDIATELY AFTER INITIAL CONCRETE SET AND PLACE BEFORE FINAL CURING ALTERNATIVELY FORM JOINT WITH PREMOLDED STRIP IN FRESH CONCRETE.
2. FILL GROOVE WITH JOINT FILLER SEALANT.
3. WHERE POSSIBLE, APPLY FILLER WHILE BLDG IS UNDER PERMANENT TEMPERATURE CONTROL.
4. PLACE AT 30D OC MAX OR AS SHOWN ON FOUNDATION PLAN.

8 S5.01 CONTROL JOINT (C) CONCRETE SLAB ON GRADE

NTS



NOTES:
1. CONTINUOUS SAWCUT CONTROL JOINT. CUT SLAB IMMEDIATELY AFTER INITIAL CONCRETE SET AND PLACE BEFORE FINAL CURING ALTERNATIVELY FORM JOINT WITH PREMOLDED STRIP IN FRESH CONCRETE.
2. FILL GROOVE WITH JOINT FILLER SEALANT.
3. WHERE POSSIBLE, APPLY FILLER WHILE BLDG IS UNDER PERMANENT TEMPERATURE CONTROL.
4. PLACE AT 30D OC MAX OR AS SHOWN ON FOUNDATION PLAN.

4 S5.01 CONTROL JOINT (C) CONCRETE SLAB ON GRADE

NTS

Project Title:

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MLK JR. YOUTH SERVICES CENTER / YAP
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Stamp:

REGISTERED PROFESSIONAL ENGINEER
JASON M. LEE
No. S4980
STRUCTURAL
STATE OF CALIFORNIA

Signed on 02/28/2025

No.	Description	Date
	PERMIT SET	12/04/24
1	PLAN CHECK #1	03/07/25

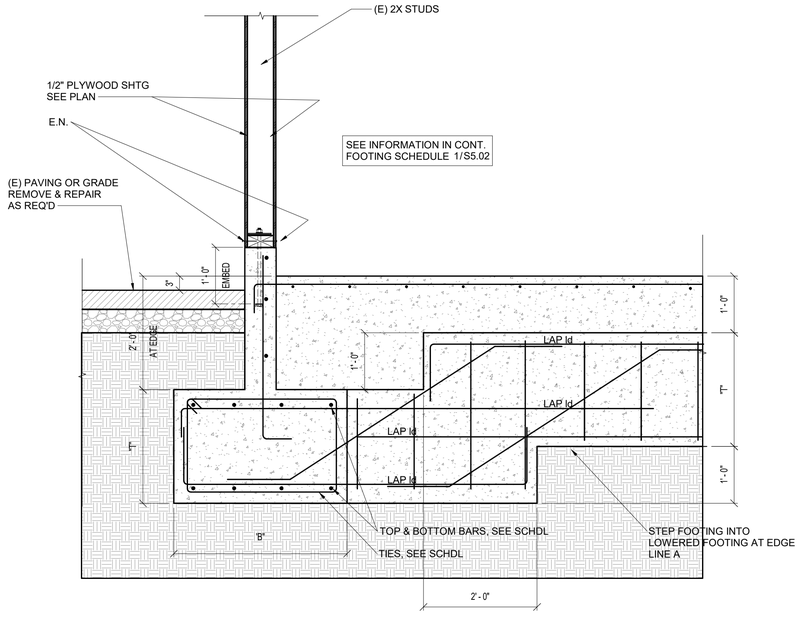
Issue Note: PERMIT RESUBMITTAL 03/07/25

City Plan No.:	8286
City File No.:	402-145
Specification No.:	#25-11695-C
Drawn by:	Author
Checked by:	Checker
Plot Date:	02/28/2025
Scale:	As indicated

Sheet Title:
TYPICAL FOUNDATION DETAILS

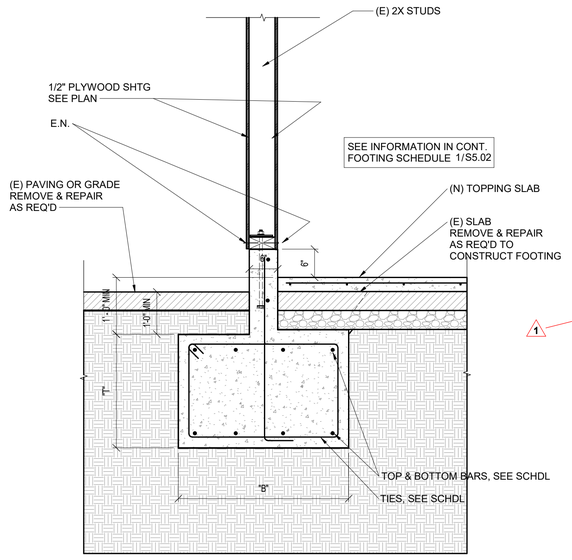
Sheet No.:
S5.01

3/5/2025 12:44:02 PM



14 S5.02 PERPENDICULAT FOOTINGS AT LINE A

3/4" = 1'-0"



11 S5.02 PERIMETER (N) FOOTING AT (E) SLAB

3/4" = 1'-0"

GRADE BEAM (CONTINUOUS FOOTING) SCHEDULE

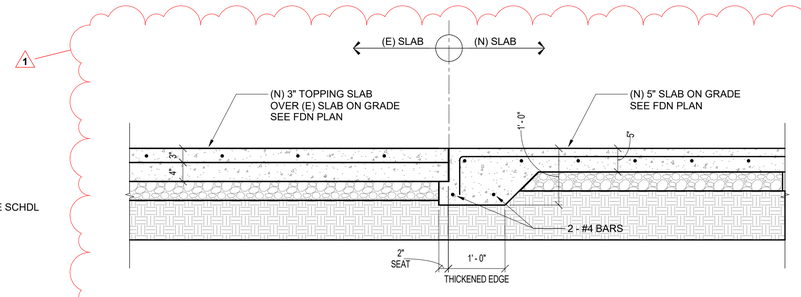
ID	B WIDTH	T DEPTH	TOP & BOTTOM BARS	TIE SETS	REF DETAIL
CF2.0x2.0	2'-0"	2'-0"	3-#6	#4 @ 12" OC 2 VERT LEGS	10 - / 14 - / 16 -
CF3.0x2.0	3'-0"	2'-0"	4-#6	#4 @ 12" OC 2 VERT LEGS	10 - / 14 - / 16 -
CF4.0x2.0	4'-0"	2'-0"	5-#7	#5 @ 12" OC 4 VERT LEGS	10 - / 14 - / 16 -

NOTES:

1. EXTEND GRADE BEAM REINFORCEMENT THROUGH ISOLATED FOOTINGS.
2. LAP REINF OF SMALLER FOOTINGS INTO LARGER FOOTINGS.
3. SEE FOUNDATION PLAN FOR ADDITIONAL TOP & BOT REINFORCING.
4. USE 80 KSI GR FOR CONTINUOUS TOP & BOT LONGITUDINAL REINFORCING

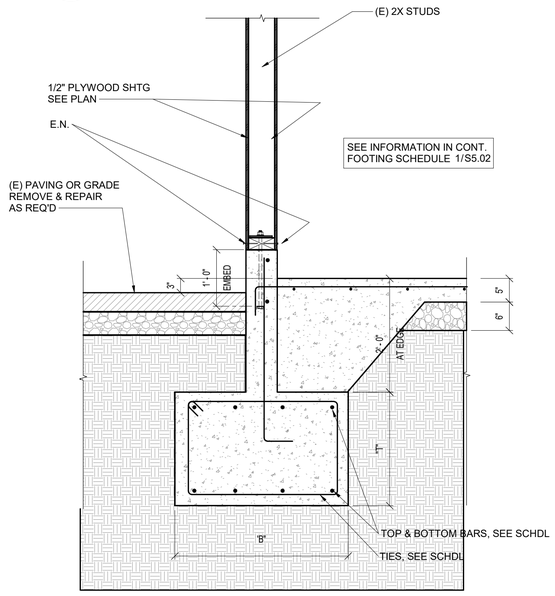
1 S5.02 CONTINUOUS FOOTING SCHDULE

1" = 1'-0"



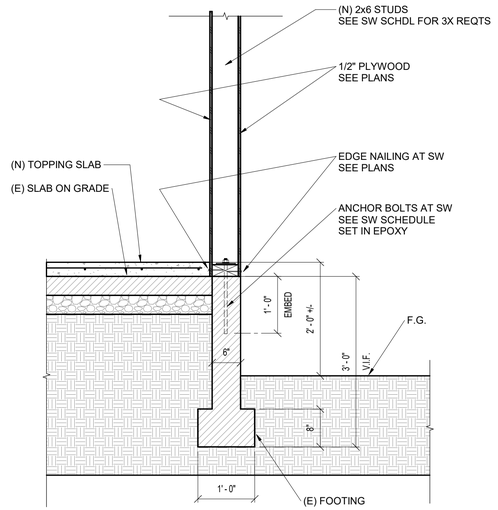
2 S5.02 SECTION AT TRANSITION (E) SLAB TO (N) SLAB

3/4" = 1'-0"



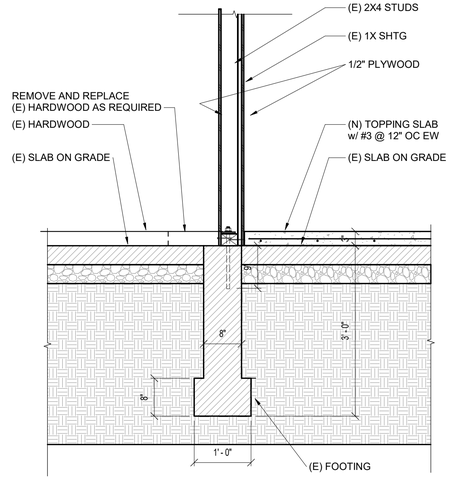
16 S5.02 PERIMETER (N) FOOTING AT LINE A

3/4" = 1'-0"



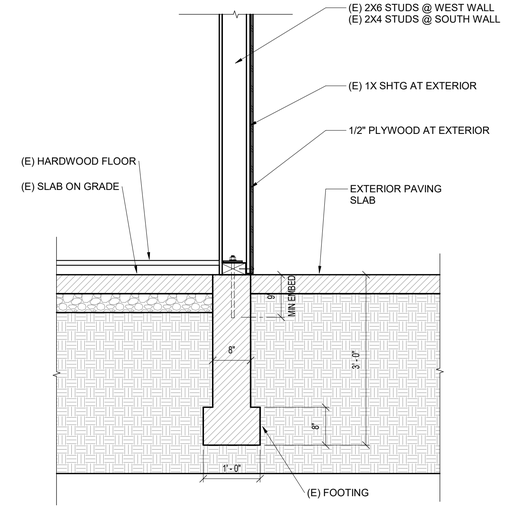
12 S5.02 BUILDING EXISTING EXTERIOR FOOTING

3/4" = 1'-0"



8 S5.02 GYM INTERIOR FOOTING

3/4" = 1'-0"



4 S5.02 GYM EXTERIOR FOOTING

3/4" = 1'-0"

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Signed on 02/28/2025

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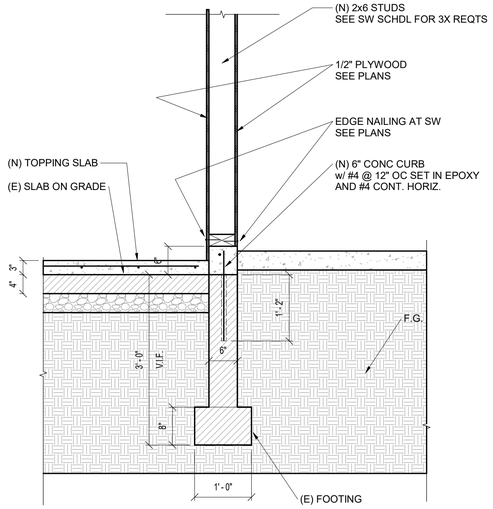
Issue Note: PERMIT RESUBMITTAL 03/07/25

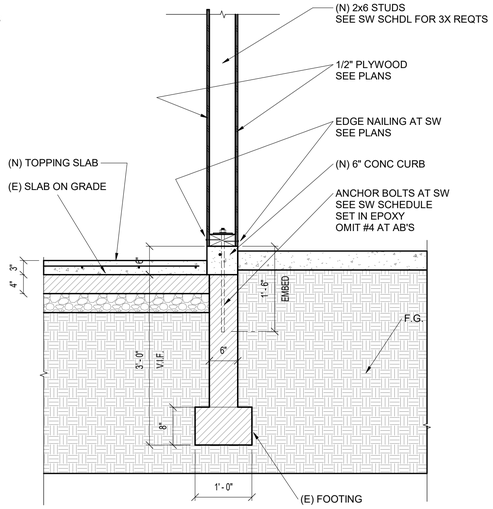
City Plan No.:	8286
City File No.:	402-145
Specification No.:	#25-11695-C
Drawn by:	Author
Checked by:	Checker
Plot Date:	02/28/2025
Scale:	As indicated

Sheet Title: CONCRETE DETAILS

Sheet No.: S5.02

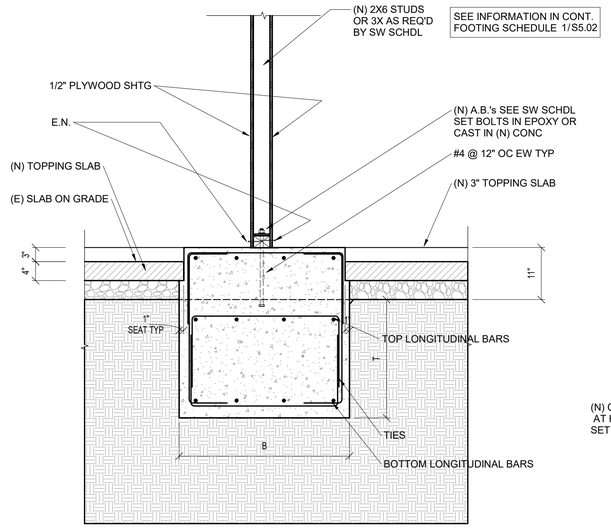
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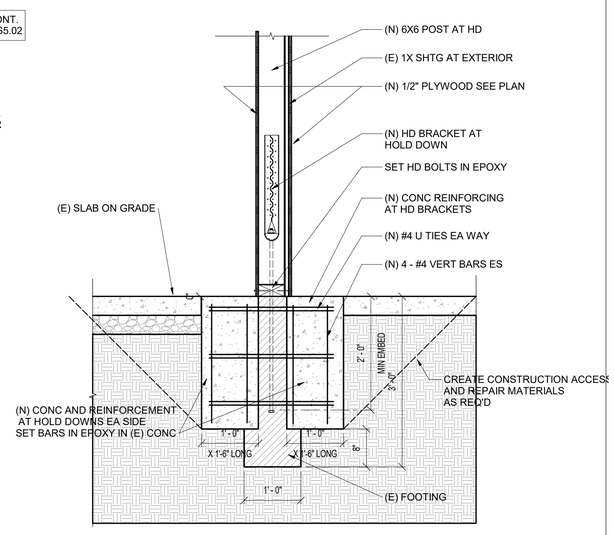
10 S5.03 BUILDING EXISTING EXTERIOR FOOTING WITH (N) CURB

3/4" = 1'-0"



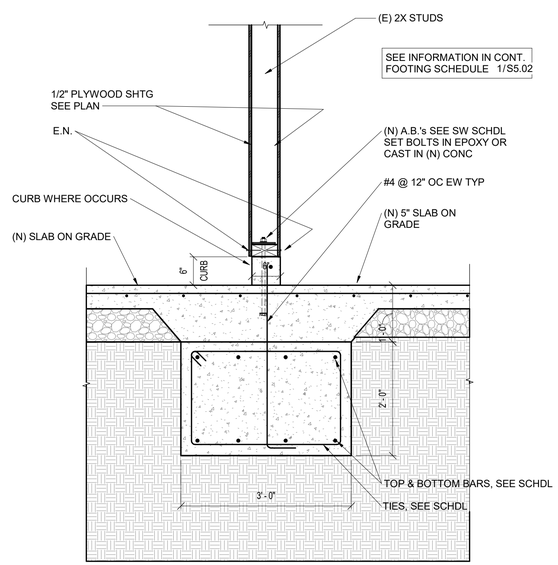
6 S5.03 (N) INTERIOR FOOTING AT (E) SLABS

3/4" = 1'-0"



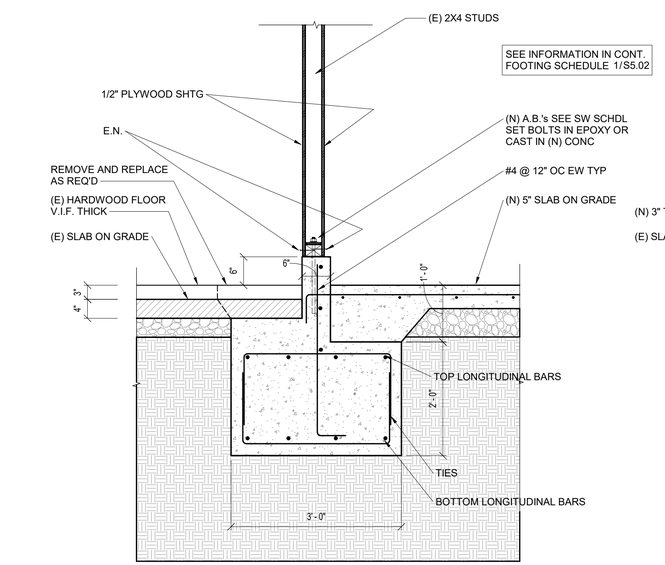
2 S5.03 HOLD DOWND AT EXISTING FOOTINGS

3/4" = 1'-0"



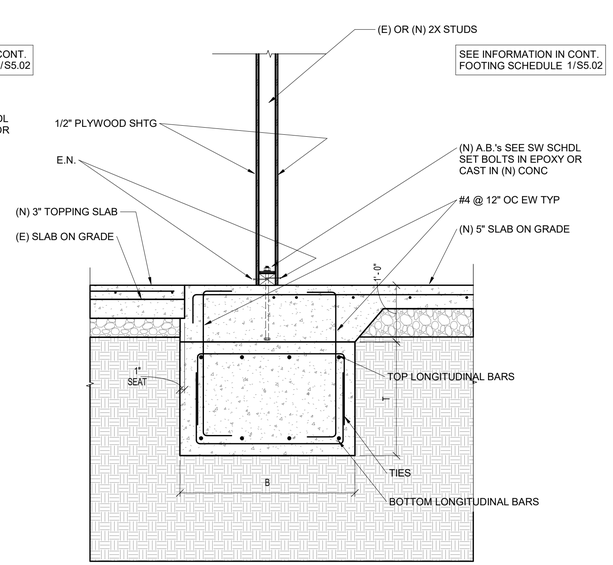
12 S5.03 (N) INTERIOR FOOTING AT (N) SLAB

3/4" = 1'-0"



8 S5.03 (N) INTERIOR FOOTING AT GYM PERIMETER

3/4" = 1'-0"



4 S5.03 (N) INTERIOR FOOTING AT (E) AND (N) SLAB

3/4" = 1'-0"

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1	PLAN CHECK #1	03/07/25

Issue Note: PERMIT RESUBMITTAL 03/07/25

City Plan No.:	8286
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Specification No.:	#25-11695-C
Drawn by:	Author
Checked by:	Checker
Plot Date:	02/28/2025
Scale:	3/4" = 1'-0"

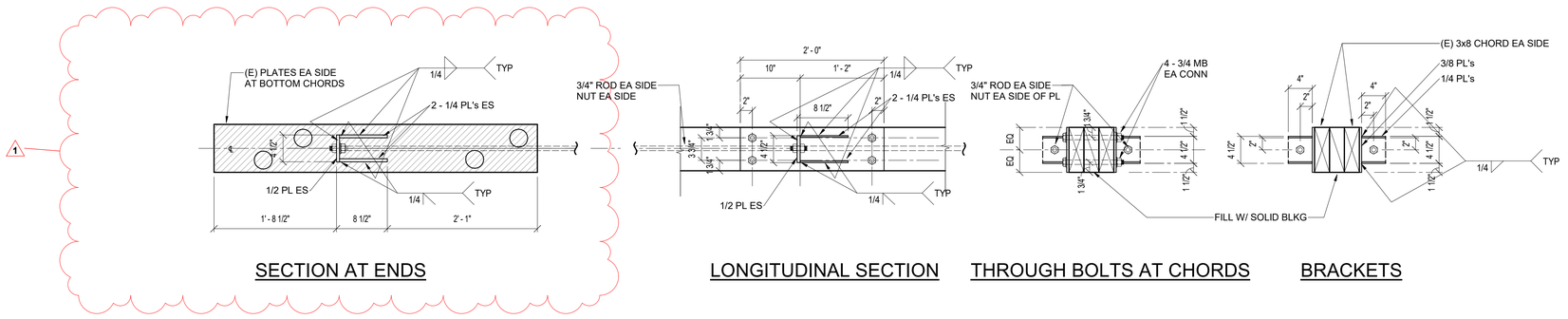
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CONCRETE DETAILS

Sheet No.:

S5.03

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SECTION AT ENDS

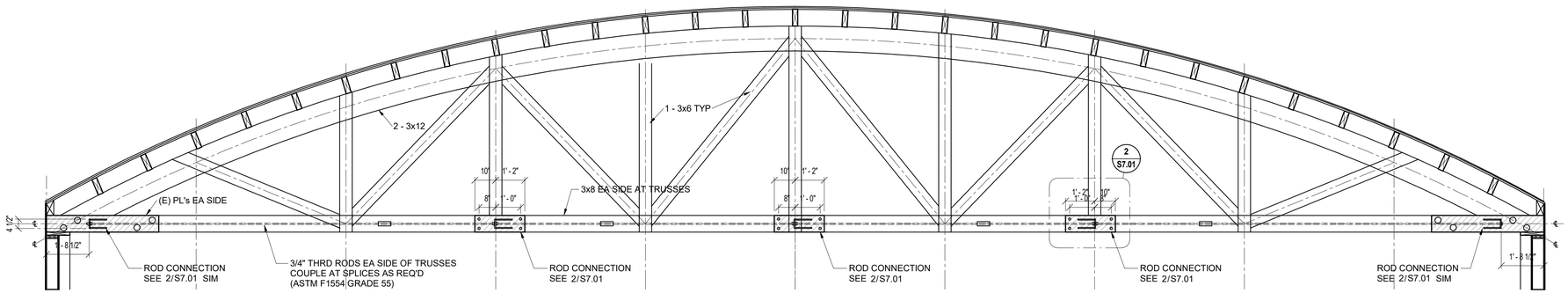
LONGITUDINAL SECTION

THROUGH BOLTS AT CHORDS

BRACKETS

2 S7.01 TRUSS CHORD ROD CONNECTIONS

1" = 1'-0"



1 S7.01 WOOD TRUSSES STRENGTHENING

3/8" = 1'-0"

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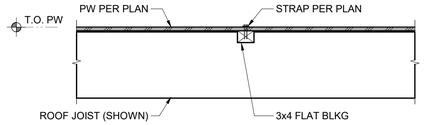
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STEEL DETAILS AT TRUSSES STRENGTHENING

Sheet No.:

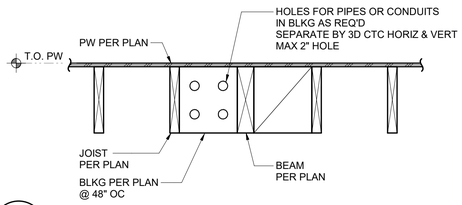
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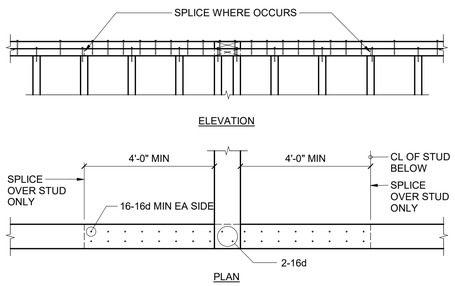
10 S8.01 SECTION AT STRAP & BLKG

NTS



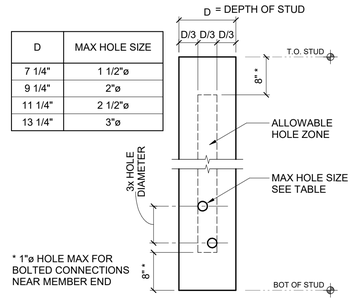
11 S8.01 HOLES IN BLOCKING

3/4" = 1'-0"



12 S8.01 TYPICAL TOP PLATE SPLICE

NTS

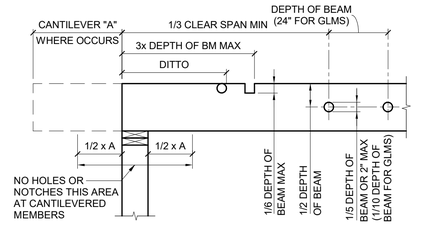


D	MAX HOLE SIZE
7 1/4"	1 1/2"ø
9 1/4"	2"ø
11 1/4"	2 1/2"ø
13 1/4"	3"ø

NOTE:
1. NOTCHING OF STUDS NOT PERMITTED EXCEPT AS DETAILED.
2. SEE CARPENTRY NOTES FOR PIPE & HOLES IN SHEAR WALL & BEARING WALL FRAMING.

7 S8.01 W001-2 HOLES IN TIMBERSTRAND STUDS

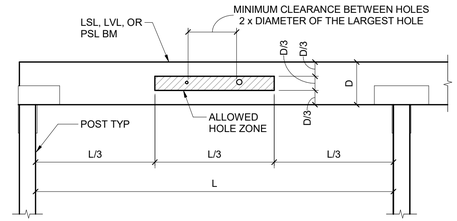
NTS



NOTES:
1. NO HOLES OR NOTCHES PERMITTED IN BOTTOM OF BEAMS OR JOISTS.
2. NO HOLES OR NOTCHES PERMITTED WHERE DEPTH OF BEAM IS 5 1/2" OR LESS. (12" FOR GLMS)
3. VERTICAL HOLES ARE NOT PERMITTED.
4. APPLY PRESERVATIVE TO HOLES IN PRESSURE TREATED WOOD.
5. THIS DETAIL APPLIES TO SOLID SAWN AND GLM WOOD MEMBERS ONLY. FOR OTHER MANUFACTURED WOOD PRODUCTS, NOTCH AND DRILL PER MANUFACTURER'S PUBLISHED INSTRUCTIONS AND LIMITATIONS.

4 S8.01 HOLES AND NOTCHES IN BEAM AND JOIST

NTS

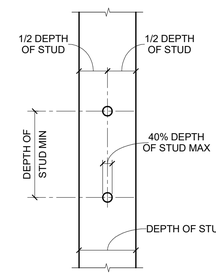


NOTES:
1. DO NOT CUT, NOTCH, OR DRILL HOLES IN LSL, LVL & PSL BEAMS EXCEPT AS INDICATED IN DIAGRAM & SCHEDULE.
2. ALLOWED HOLE ZONE FOR UNIFORMLY LOADED BEAMS ONLY.
3. NO RECTANGULAR HOLES ALLOWED.
4. NO HOLES IN CANTILEVERS ALLOWED.
5. CONSULT MANUFACTURER FOR LARGER HOLE SIZES.

ALLOWABLE HOLE SCHEDULE	
BEAM DEPTH	MAXIMUM ROUND HOLE SIZE
4 3/8"	1"
5 1/2"	1 3/4"
7 1/4" & DEEPER	2"

1 S8.01 HOLES IN LSL, LVL, & PSL BMS

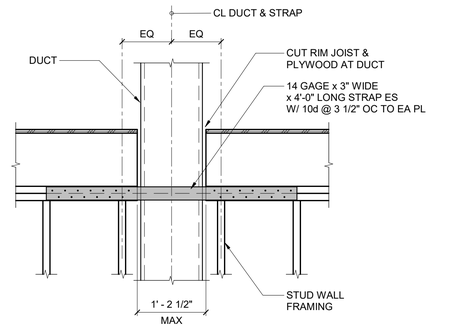
NTS



NOTE:
1. NOTCHING OF STUDS NOT PERMITTED EXCEPT AS DETAILED.
2. SEE CARPENTRY NOTES FOR PIPE & HOLES IN SHEAR WALL & BEARING WALL FRAMING.

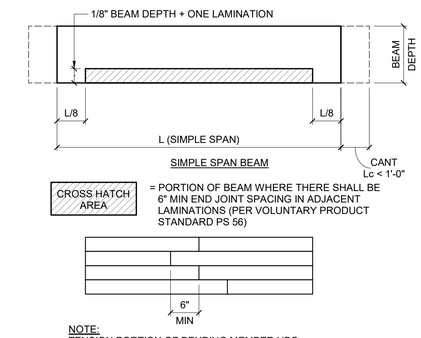
8 S8.01 HOLES IN STUDS

NTS



5 S8.01 DUCT PENETRATION AT STUD WALL TOP PLATES

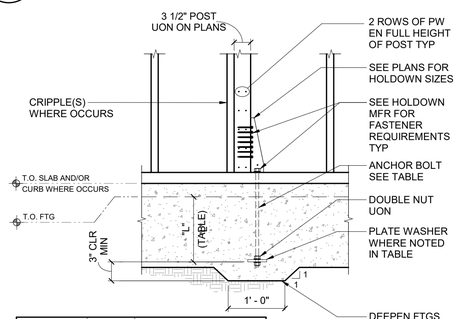
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NOTE:
TENSION PORTION OF BENDING MEMBER UBC STANDARD 25-10

2 S8.01 SPACING OF END JOINTS IN LAMINATIONS OF GLM BEAMS

NTS

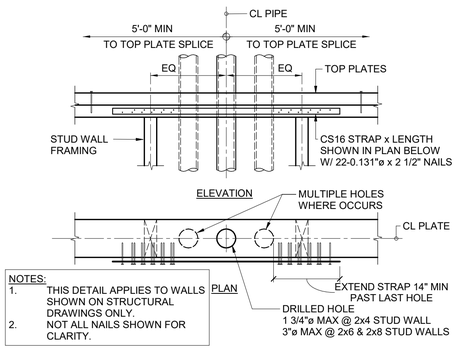


HOLDOWN SIZE	"L" MIN	ANCHOR BOLT
HDU2 HDU4 HDU5	10 1/2"	PAB5 OR 5/8"ø AB W/ 1 1/2"x1 1/2"x3/8" PLATE WASHER
HDU8	16 1/2"	PAB7 OR 7/8"ø AB W/ 2 1/4"x2 1/4"x3/8" PLATE WASHER
HDU11 HDU14	18"	PAB8 OR 1"ø AB W/ 2 1/2"x2 1/2"x3/8" PLATE WASHER
HD19	21"	PAB9 OR 1"ø AB W/ 2 3/4"x2 3/4"x3/8" PLATE WASHER

NOTES:
1. ANCHOR BOLT SHALL BE IN ACCORDANCE WITH ASTM F1554 GRADE 36, A36 OR A307.
2. PW SHEATHING NOT SHOWN FOR CLARITY OF DETAIL.

6 S8.01 TYPICAL HOLDOWN DETAIL

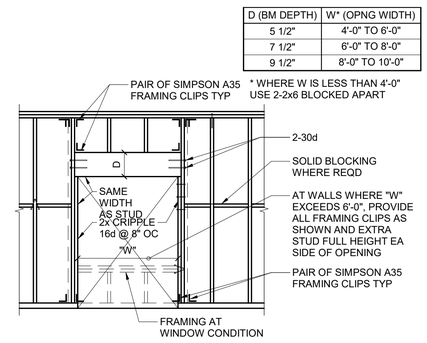
NTS



NOTES:
1. THIS DETAIL APPLIES TO WALLS SHOWN ON STRUCTURAL DRAWINGS ONLY.
2. NOT ALL NAILS SHOWN FOR CLARITY.

9 S8.01 PIPE PENETRATION AT STUD WALL TOP PLATES

NTS



D (BM DEPTH)	W* (OPNG WIDTH)
5 1/2"	4'-0" TO 6'-0"
7 1/2"	6'-0" TO 8'-0"
9 1/2"	8'-0" TO 10'-0"

3 S8.01 TYPICAL FRAMING AT WINDOW / DOOR OPENING

NTS

Project Title:

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Stamp:

REGISTERED PROFESSIONAL ENGINEER JASON M. LEE No. S4980 STRUCTURAL STATE OF CALIFORNIA

Signed on 02/28/2025

No.	Description	Date
	PERMIT SET	12/04/24
1	PLAN CHECK #1	03/07/25

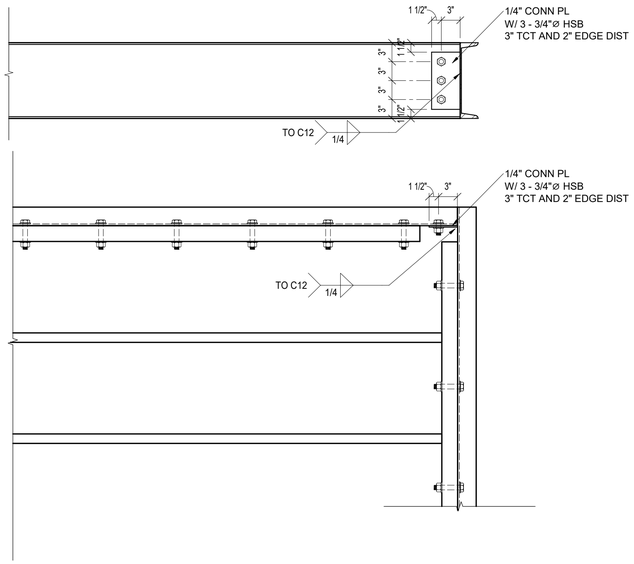
Issue Note: PERMIT RESUBMITTAL 03/07/25

City Plan No.:	8286
City File No.:	402-145
Specification No.:	#25-11695-C
Drawn by:	Author
Checked by:	Checker
Plot Date:	02/28/2025
Scale:	3/4" = 1'-0"

Sheet Title:
TYPICAL WOOD DETAILS

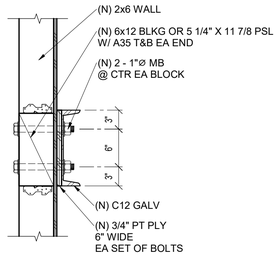
Sheet No.:
S8.01

3/5/2025 12:44:05 PM



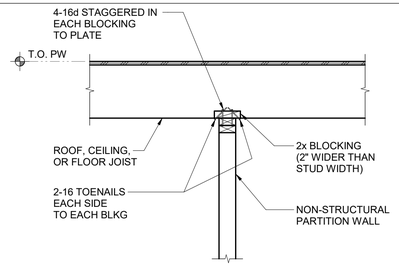
18 S8.02 C12 TO C12 CONN

1" = 1'-0"



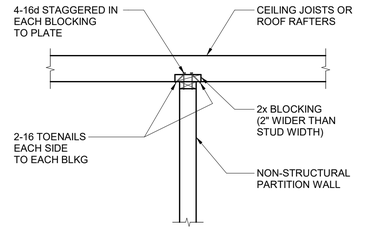
9 S8.02 C12 AT WALL

1" = 1'-0"



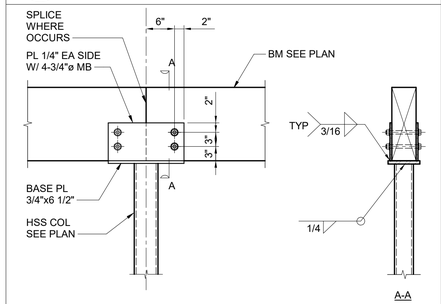
5 S8.02 PARTITION WALL PERPENDICULAR TO JOIST FRAMING

NTS



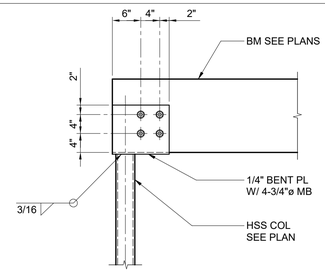
1 S8.02 PARTITION WALL PERPENDICULAR TO JOIST FRAMING

NTS



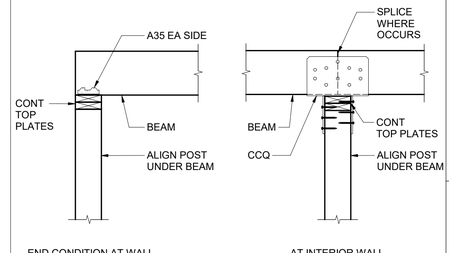
10 S8.02 BEAM CONNECTION

NTS



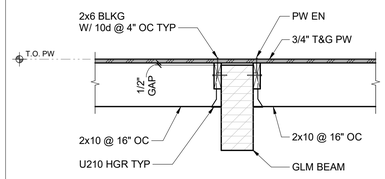
6 S8.02 BEAM CONNECVTION

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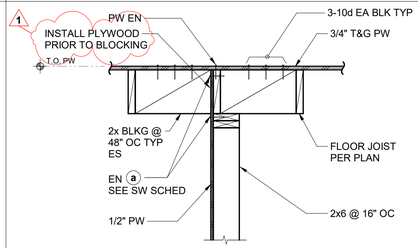
END CONDITION AT WALL WHERE BEAM BEARS FULLY ON TOP PLATE

AT INTERIOR WALL



15 S8.02 SECTION AT BEAM

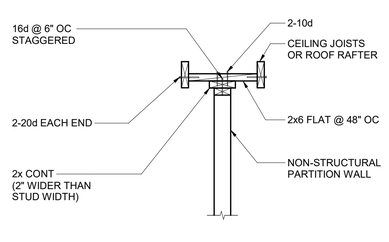
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JOIST PARALLEL TO WALL

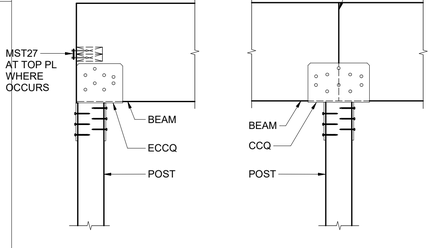
11 S8.02 SECTION AT JOISTS PARALLEL

NTS



7 S8.02 PARTITION WALL PARALLEL TO JOIST FRAMING

NTS

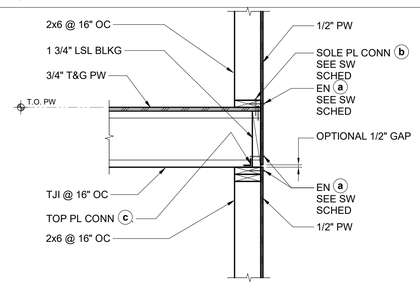


END CONDITION AT WALL

AT INTERIOR POST CONDITION

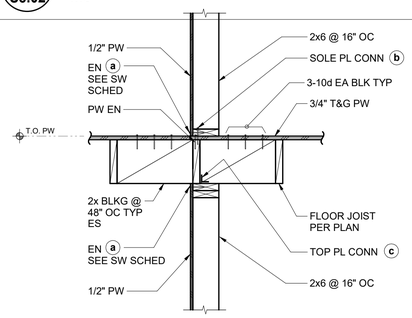
3 S8.02 TYPICAL BEAM TO POST DETAIL

NTS



16 S8.02 SECTION AT JOISTS PERPENDICULAR

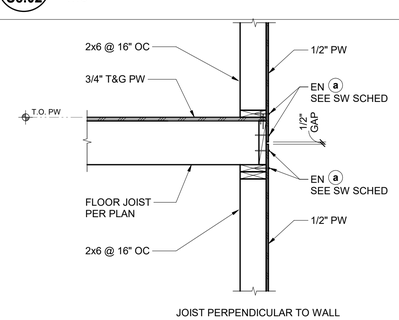
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JOIST PARALLEL TO WALL

12 S8.02 SECTION AT JOISTS PARALLEL

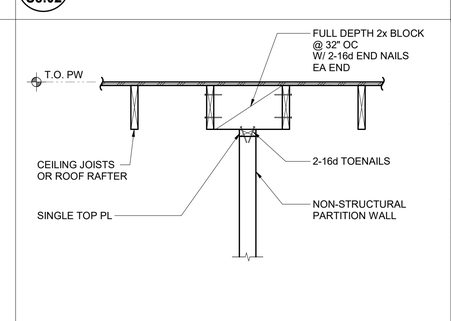
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JOIST PERPENDICULAR TO WALL

8 S8.02 TYPICAL FRAMING AT EXT SHEAR WALL

NTS



4 S8.02 PARTITION WALL PARALLEL TO JOIST FRAMING

NTS

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REGISTERED PROFESSIONAL ENGINEER
JASON M. LEE
No. S4980
STRUCTURAL
STATE OF CALIFORNIA

Signed on 02/28/2025

No.	Description	Date
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Scale:	As indicated

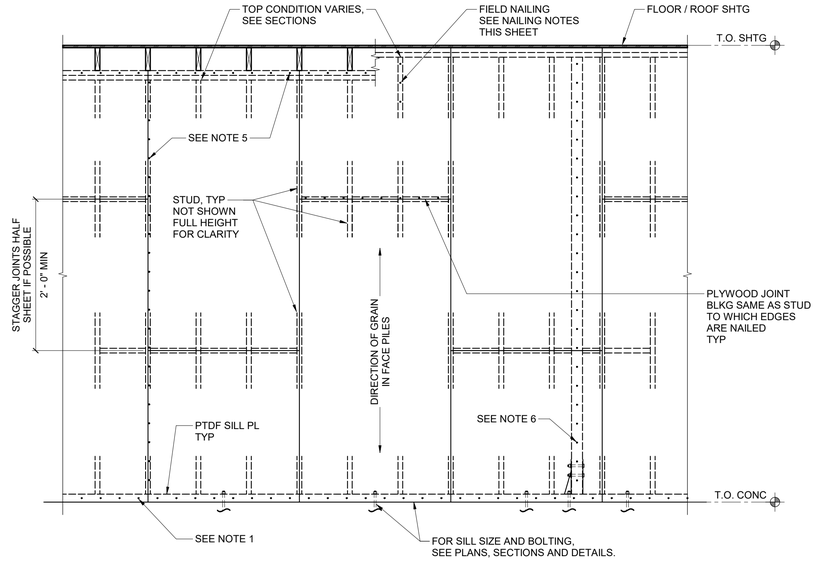
Sheet Title:

TYPICAL WOOD DETAILS

Sheet No.:

S8.02

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NOTES:
1. REDWOOD SILL NAILING TO BE SPACED AT 3/4 THE SHEET EDGE NAILING. STAGGER IF NECESSARY.
2. MAXIMUM SPACING OF EDGE NAILING IS 6" ON CENTER.
3. MAXIMUM SPACING OF SHEET FIELD NAILING IS 12" ON CENTER ALONG INTERIOR BEARING LINES.
4. SEE FRAMING PLANS, ELEVATIONS AND DETAILS FOR OTHER THAN MAXIMUM NAIL SPACING AND FOR SIZE OF NAILS.
5. PLYWOOD SHEET EDGE NAILING IS TO BE CONTINUOUS AROUND THE BOUNDARY OF EACH PLYWOOD SHEET.
6. WHERE TIEDOWN POSTS OCCUR, PLYWOOD IS NAILED CONTINUOUSLY TO THE POST WITH THE SAME NAILING AS THE SHEET EDGE NAILING IN THAT AREA.

14 / S8.03 PLYWOOD WALL SHEATHING ELEVATION

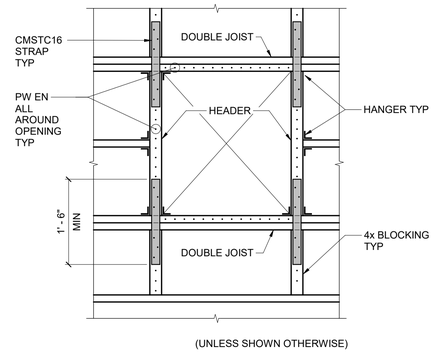
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MARK	1/2" SHEATHING	CONNECTIONS NOTED ON DETAILS							REMARKS
		(a) NAILING		(b) 2x SOLE PLATE CONNECTION	(c) TOP PLATE CONNECTION	(d) JOIST OR BLKG	(e) 3x PTDF SILL PL W/ ANCHOR BOLT SIZE & SPACING	MAX ALLOWABLE SHEAR CAPACITY (plf)	
		EDGES	FIELD						
A	1 SIDE	10d @ 6" OC	10d @ 12" OC	16d @ 4" OC STAGGERED	A35 OR SCREW @ 16" OC	3x SS OR 1 3/4" LSL	5/8"ø @ 48" OC	310	
	2 SIDES	10d @ 6" OC	10d @ 12" OC	20d @ 3" OC STAGGERED	A35 OR SCREW @ 8" OC	3x SS OR 1 3/4" LSL	5/8"ø @ 16" OC	620	
B	1 SIDE	10d @ 4" OC	10d @ 12" OC	16d @ 3" OC STAGGERED	A35 OR SCREW @ 8" OC	3x SS OR 1 3/4" LSL	5/8"ø @ 32" OC	460	USE 3x STUDS @ SHEATHING PANEL JTS
	2 SIDES	10d @ 4" OC	10d @ 12" OC	3/8"ø x 6" LG LAG SCREWS @ 8" OC	A23 OR SCREW @ 6" OC	3x SS OR 1 3/4" LSL	5/8"ø @ 16" OC	920	USE 3x STUDS @ SHEATHING PANEL JTS
C	1 SIDE	10d @ 3" OC	10d @ 12" OC	20d @ 3" OC STAGGERED	A35 OR SCREW @ 8" OC	3x SS OR 1 3/4" LSL	5/8"ø @ 16" OC	600	USE 3x STUDS @ SHEATHING PANEL JTS
	2 SIDES	10d @ 3" OC	10d @ 12" OC	3/8"ø x 6" LG LAG SCREWS @ 4" OC	A23 OR SCREW @ 4" OC	3x SS OR 1 3/4" LSL	5/8"ø @ 8" OC	1200	USE 3x STUDS @ SHEATHING PANEL JTS
D	1 SIDE	10d @ 2" OC	10d @ 12" OC	3/8"ø x 6" LG LAG SCREWS @ 8" OC	A35 OR SCREW @ 6" OC	3x SS OR 1 3/4" LSL	5/8"ø @ 16" OC	770	USE 3x STUDS @ SHEATHING PANEL JTS
	2 SIDES	10d @ 2" OC	10d @ 12" OC	3/8"ø x 6" LG LAG SCREWS @ 4" OC	A23 OR SCREW @ 3 1/2" OC	3x SS OR 1 3/4" LSL	5/8"ø @ 8" OC	1540	USE 3x STUDS @ SHEATHING PANEL JTS

NOTES:
1. ALL EXTERIOR WALLS SHALL BE SHEATHED WITH SHEAR WALL MARK (A) UON.
2. DO NOT LOCATE SHEATHING JOINTS ON THE SAME STUD WHERE SHEATHING OCCURS ON BOTH SIDES, UNLESS 3x STUDS ARE USED.
3. PROVIDE 2 ROWS OF SHEATHING EDGE NAILING (EN) FULL HEIGHT OF ALL POSTS WITH HOLDOWNS.
4. SHEATHING AT SHEAR WALLS SHALL EXTEND FULL LENGTH AND HEIGHT OF WALL.
5. USE 3x SILL PLATES AT ALL SHEAR WALLS AND EXTERIOR WALLS.
6. ANCHOR BOLTS SHALL HAVE 7" MINIMUM EMBEDMENT. EMBEDDED END SHALL HAVE 6 DIAMETER BEND WITH 2 DIAMETER EXTENSION PAST CENTER OF BEND.
7. SCREWS FOR CONNECTION (c) SHALL BE SIMPSON SDS 1/4"ø x 6" LONG.
8. USE GROUTED ANCHORS WITH 7" MINIMUM EMBEDMENT AT EXISTING CONCRETE CONDITIONS.
9. SOLE PLATE NAILING SHALL BE STAGGERED.
10. ANCHOR BOLTS (e) SHALL HAVE CUT WASHER OVER PLATE WASHER PER GENERAL NOTES.
11. NAILS PENETRATING PRESSURE-PRESERVATIVE TREATED OR FIRE TREATED WOOD SHALL BE HOT-DIPPED GALVANIZED PER ASTM A153, CLASS D AND SDS SCREWS SHALL BE STAINLESS STEEL OR HAVE DOUBLE BARRIER COATING.

5 / S8.03 PLYWOOD SHEAR WALL SCHEDULE

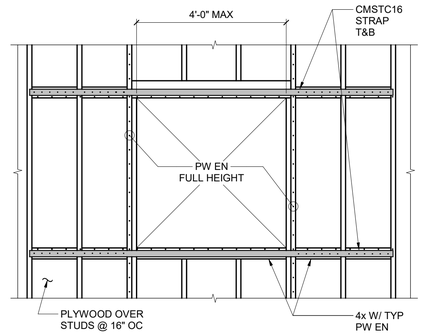
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(UNLESS SHOWN OTHERWISE)

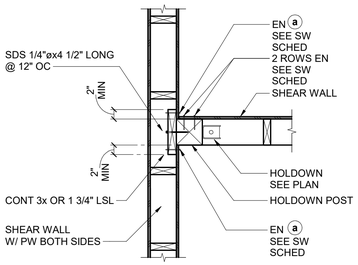
6 / S8.03 TYP FRAMING AT ROOF OPENINGS

NTS

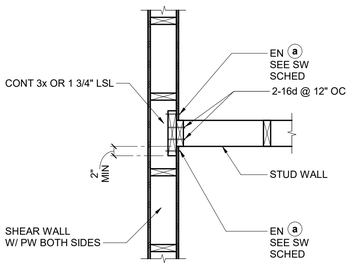


2 / S8.03 W013 TYP OPNG IN PW SHEAR WALL

NTS



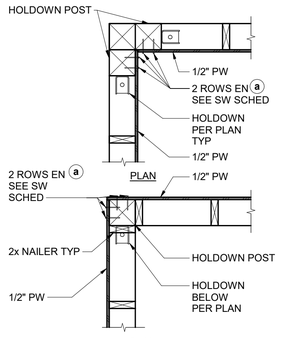
PLAN



PLAN

12 / S8.03 SHEAR WALL FRAMING AT INTERSECTING WALLS

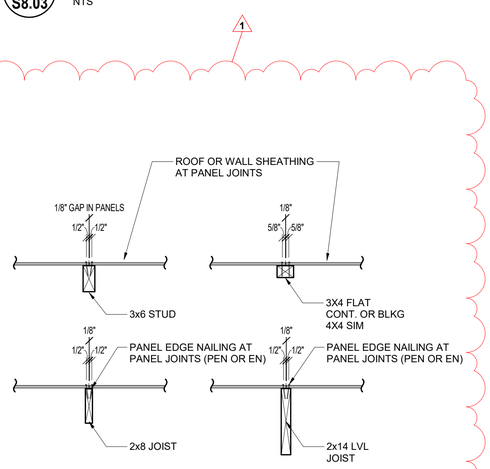
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PLAN

8 / S8.03 SHEAR WALL FRAMING @ WALL CORNERS

NTS



4 / S8.03 TYP PW PANEL EDGE DETAIL

NTS

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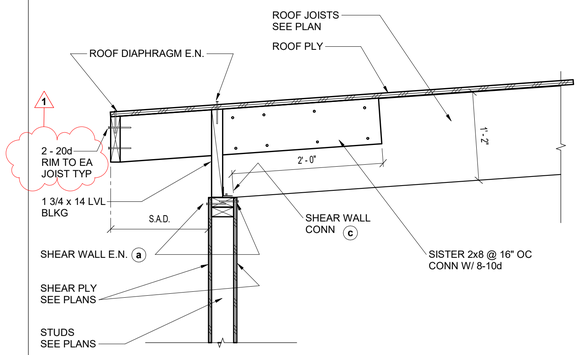
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Sheet Title: TYPICAL WOOD DETAILS

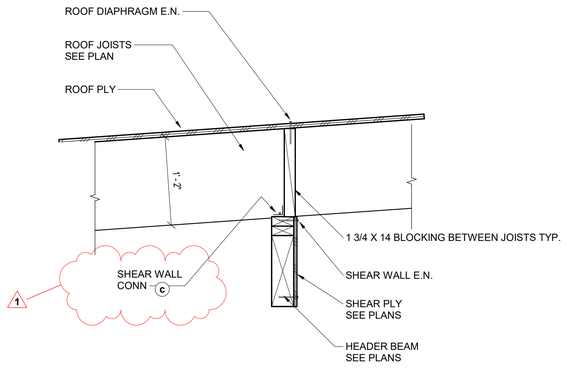
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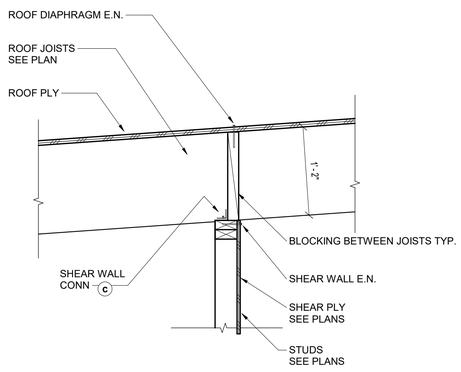
13 S8.04 SECTION AT NORTH WALL AT LOW ROOF

1" = 1'-0"



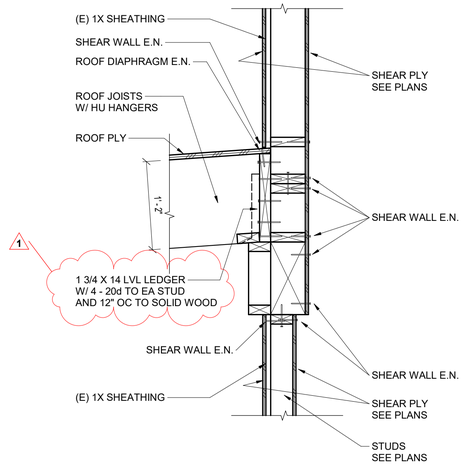
9 S8.04 SECTION AT NORTH ROOF AT INTERIOR HEADER BM

1" = 1'-0"



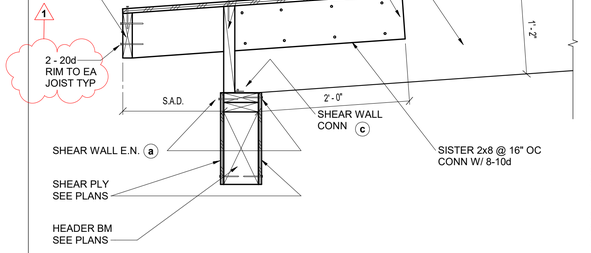
5 S8.04 SECTION AT NORTH ROOF AT INTERIOR WALL

1" = 1'-0"



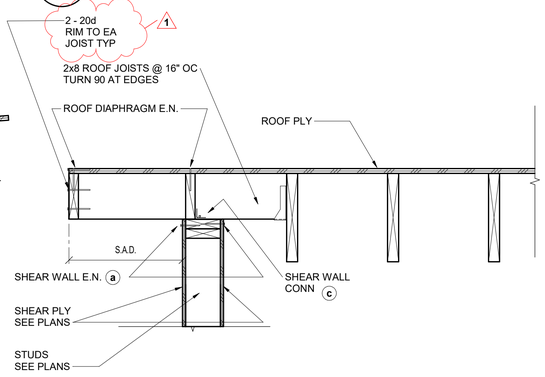
1 S8.04 WOOD SECTION AT GYM NORTH WALL AT LOW ROOF

1" = 1'-0"



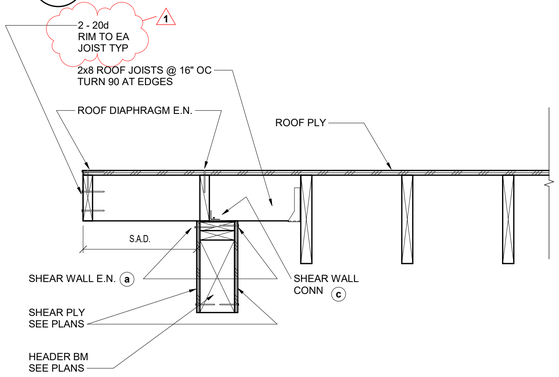
14 S8.04 SECTION AT NORTH WALL AT LOW ROOF AT HEADER

1" = 1'-0"



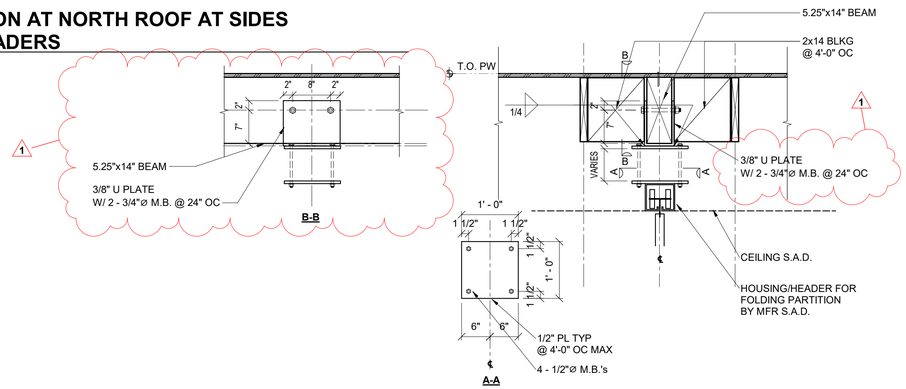
10 S8.04 SECTION AT NORTH ROOF AT SIDES

1" = 1'-0"



6 S8.04 SECTION AT NORTH ROOF AT SIDES AT HEADERS

1" = 1'-0"



4 S8.04 FOLDING PARTITION WALL SUPPORT

3/4" = 1'-0"

Project Title:

CITY OF BERKELEY
PARKS, RECREATION & WATERFRONT DEPARTMENT

MLK JR. YOUTH SERVICES CENTER / YAP SEISMIC RETROFIT AND RENOVATION

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APN#: 053-1676-001-02

Design Firm:

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Consultant:

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Stamp:

REGISTERED PROFESSIONAL ENGINEER
JASON M. LEE
No. S4980
STRUCTURAL
STATE OF CALIFORNIA

Signed on 02/28/2025

No.	Description	Date
	PERMIT SET	12/04/24
1	PLAN CHECK #1	03/07/25

Issue Note: PERMIT RESUBMITTAL 03/07/25

City Plan No.:	8286
City File No.:	402-145
Specification No.:	#25-11695-C
Drawn by:	Author
Checked by:	Checker
Plot Date:	02/28/2025
Scale:	As indicated

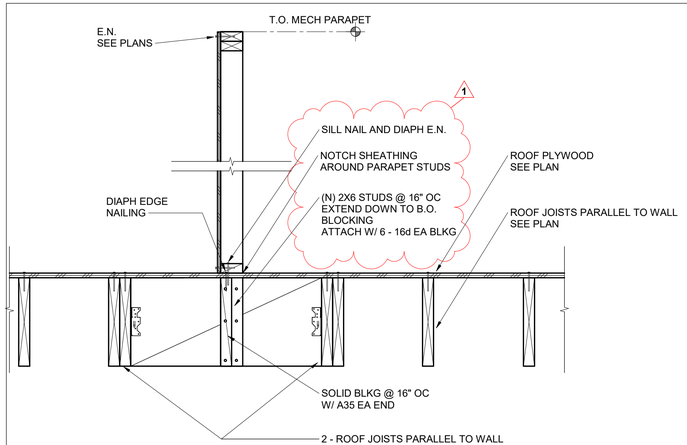
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WOOD DETAILS

Sheet No.:

S8.04

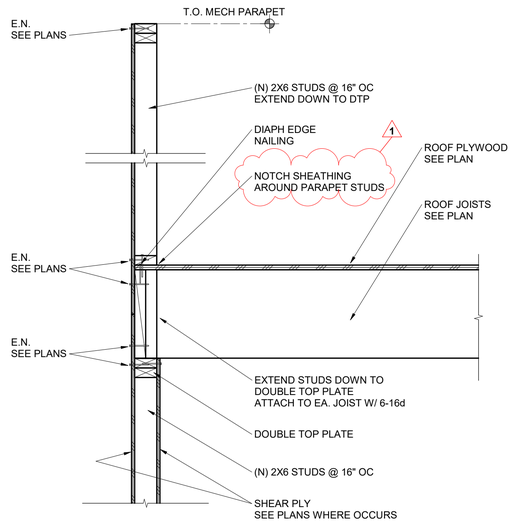
3/5/2025 12:44:08 PM



13 S8.05

SECTION AT SOUTH WALL AT MECH WELL

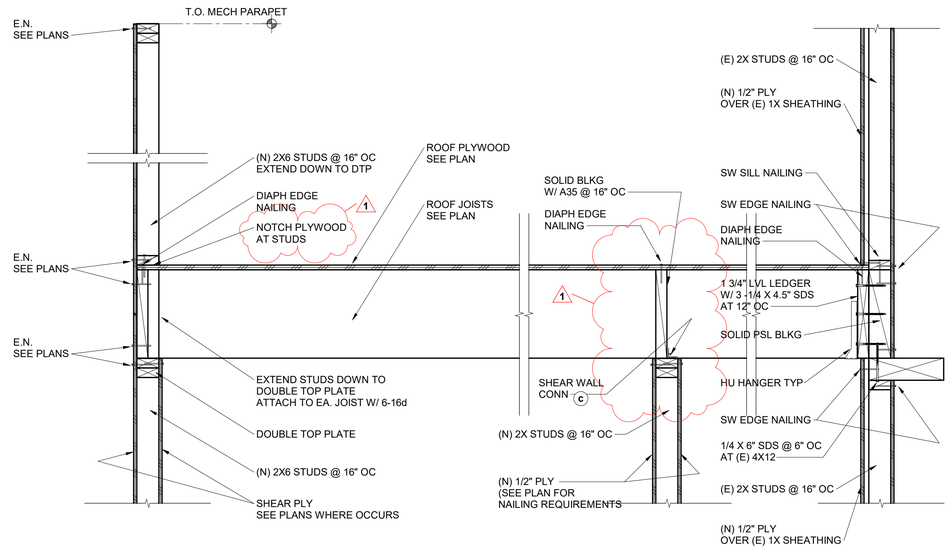
1" = 1'-0"



9 S8.05

SECTION AT EAST WALL AT LOW ROOF

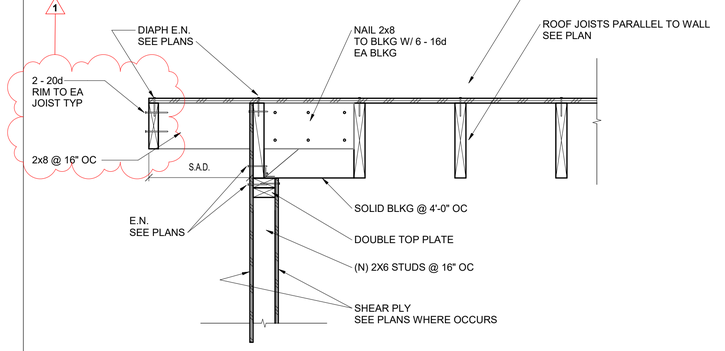
1" = 1'-0"



5 S8.05

SECTION AT MECHANICAL WELL

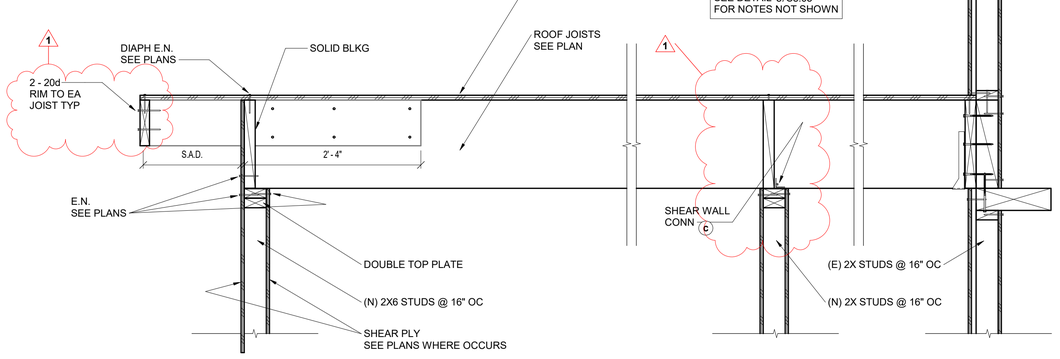
1" = 1'-0"



14 S8.05

SECTION AT SOUTH WALL AT LOW ROOF

1" = 1'-0"



1 S8.05

SECTION AT EAST ROOF

1" = 1'-0"

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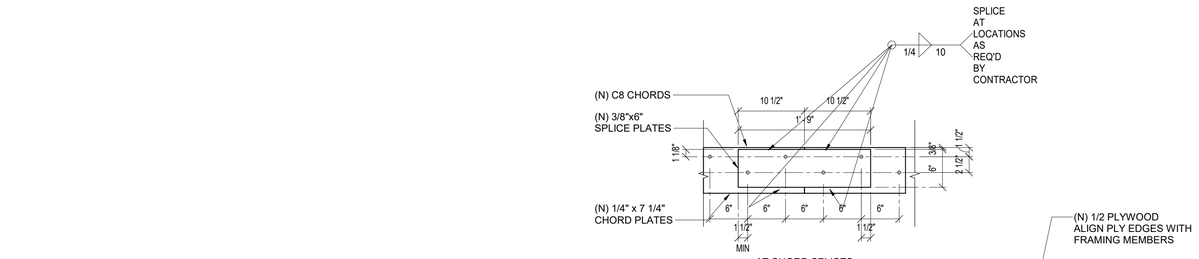
Issue Note: PERMIT RESUBMITTAL 03/07/25

City Plan No.:	8286
City File No.:	402-145
Specification No.:	#25-11695-C
Drawn by:	Author
Checked by:	Checker
Plot Date:	02/28/2025
Scale:	1" = 1'-0"

Sheet Title:
WOOD DETAILS

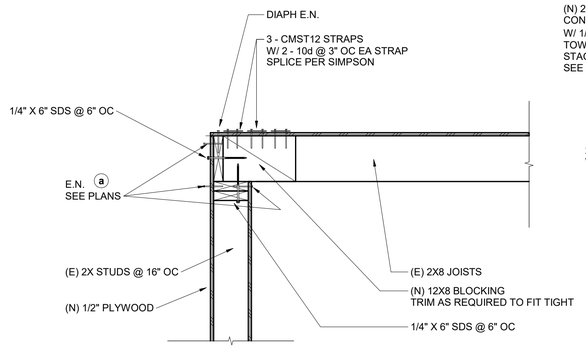
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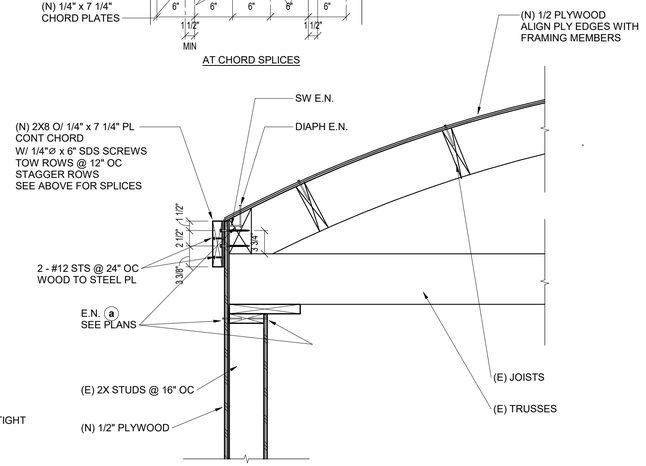
AT CHORD SPLICES

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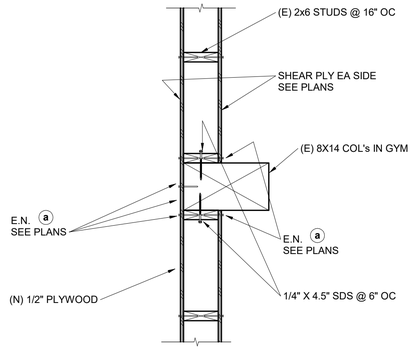
6 S8.06 SECTION AT GYM ROOF AT JOISTS PERPENDICULAR

1" = 1'-0"



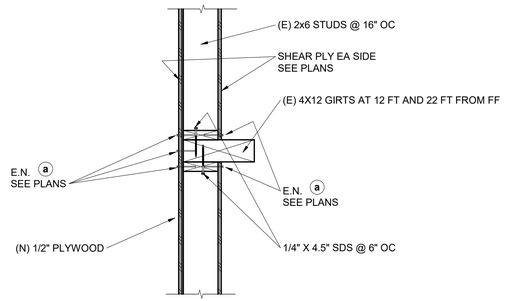
2 S8.06 SECTION AT GYM ROOF LONGITUDINAL WALLS

1" = 1'-0"



8 S8.06 GYM SHEAR WALLS (SOUTH, EAST AND WEST) (PLAN DETAIL)

NTS



4 S8.06 GYM SHEAR WALLS (SOUTH, EAST AND WEST) (SECTION DETAIL)

1" = 1'-0"

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Stamp:

REGISTERED PROFESSIONAL ENGINEER JASON M. LEE No. S4980 STRUCTURAL STATE OF CALIFORNIA

Signed on 02/28/2025

No.	Description	Date
	PERMIT SET	12/04/24
1	PLAN CHECK #1	03/07/25

Issue Note: PERMIT RESUBMITTAL 03/07/25

City Plan No.:	8286
City File No.:	402-145
Specification No.:	#25-11695-C
Drawn by:	JK
Checked by:	JK
Plot Date:	02/28/2025
Scale:	1" = 1'-0"

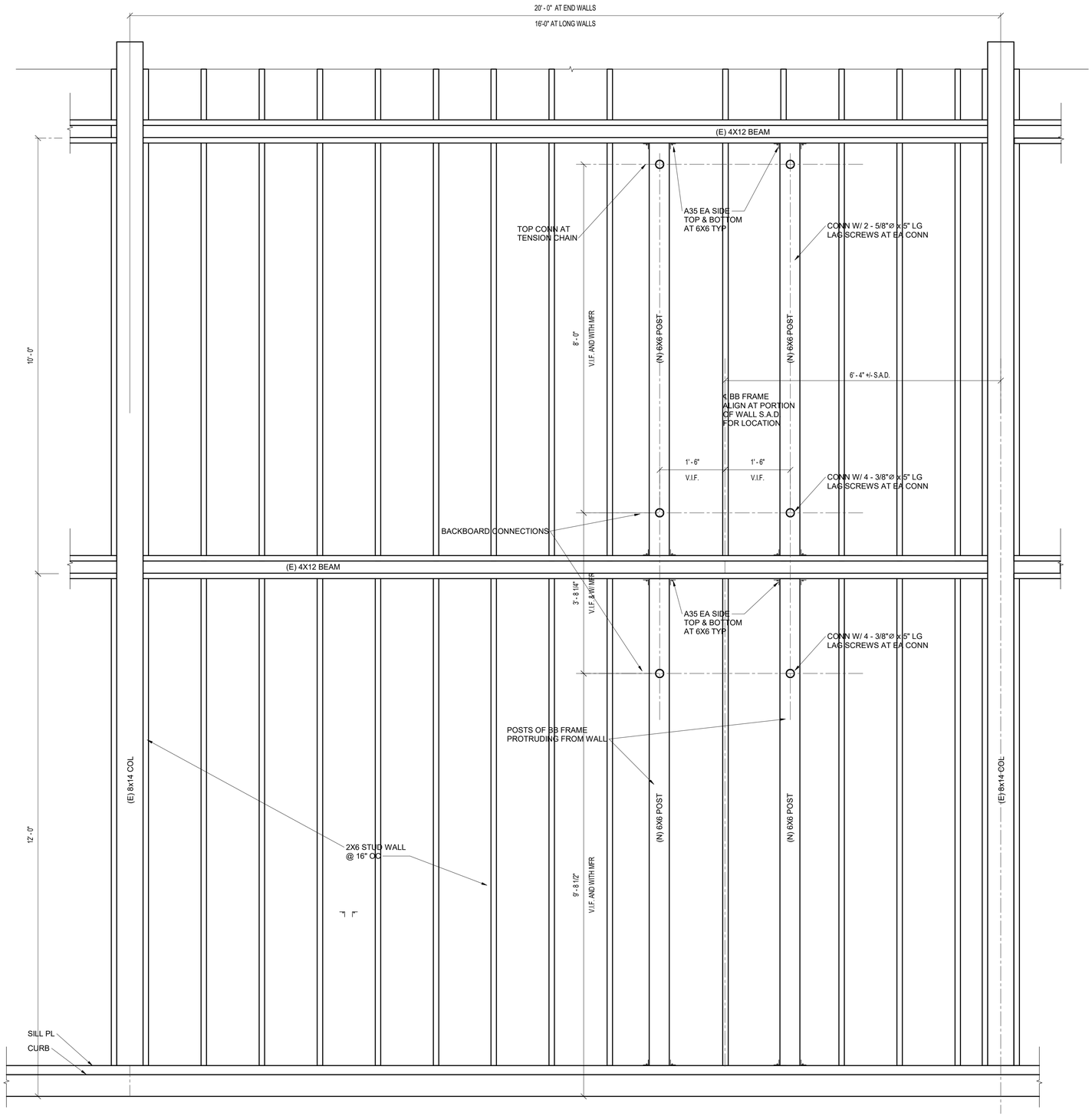
Sheet Title:

WOOD DETAILS

Sheet No.:

S8.06

3/5/2025 12:44:10 PM



1 S8.07 **BASKETBALL FRAME ANCHORAGE AT EAST AND WEST WALLS**

3/4" = 1'-0"

Project Title:

CITY OF BERKELEY
PARKS, RECREATION & WATERFRONT DEPARTMENT

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Specification No.:	#25-11695-C
Drawn by:	Author
Checked by:	Checker
Plot Date:	02/28/2025
Scale:	3/4" = 1'-0"

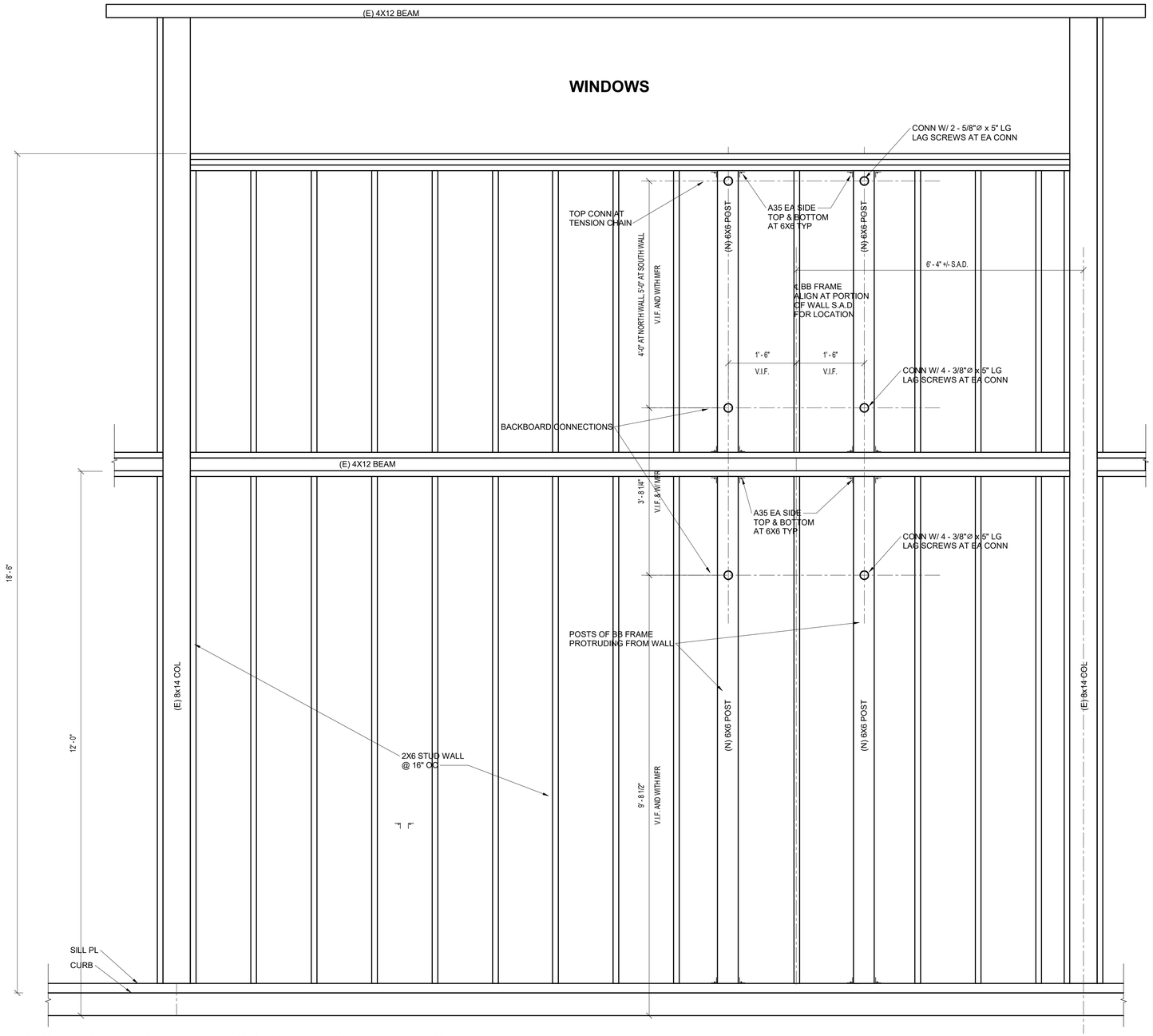
Sheet Title:

BB ANCHORAGE DETAILS

Sheet No.:

S8.07

3/5/2025 12:44:10 PM



BASKETBALL FRAME ANCHORAGE AT NORTH AND SOUTH WALLS

1 / S8.08

3/4" = 1'-0"

Project Title:

CITY OF BERKELEY
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No.	Description	Date
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City File No.:	402-145
Specification No.:	#25-11695-C
Drawn by:	Author
Checked by:	Checker
Plot Date:	02/28/2025
Scale:	3/4" = 1'-0"

Sheet Title:

BB ANCHORAGE DETAILS

Sheet No.:

S8.08

3/5/2025 12:44:11 PM

MECHANICAL ANCHORAGE SCHEDULE

MECH UNIT ID	LOCATION OF MOUNTING	MECH UNIT WEIGHT (LBS MAXIMUM)	M.B.'s & E.B.'s AT CORNERS SEE NOTE 1	M.B.'s AT LONG SIDES SEE NOTE 1	LAG SCREWS AT CORNERS SEE NOTE 1	LAG SCREWS AT LONG SIDES SEE NOTE 1	REFERENCE DETAILS
AHU-GEN	LOW ROOF	4000 LB	5/8"ø M.B. EA. CORNER	5/8"ø M.B. @ 24" OC	5/8"ø x 8" LG LAG EA. CORNER	5/8"ø x 8" LG LAG @ 2'-0" MAX OC	4/S8.09
AHU-102	LOW ROOF	4000 LB	5/8"ø M.B. EA. CORNER	5/8"ø M.B. @ 24" OC	5/8"ø x 8" LG LAG EA. CORNER	5/8"ø x 8" LG LAG @ 2'-0" MAX OC	4/S8.09
HP-GEN	LOW ROOF	XXX LB	5/8"ø M.B. EA. CORNER	5/8"ø M.B. @ 24" OC	5/8"ø x 8" LG LAG EA. CORNER	5/8"ø x 8" LG LAG @ 2'-0" MAX OC	4/S8.09

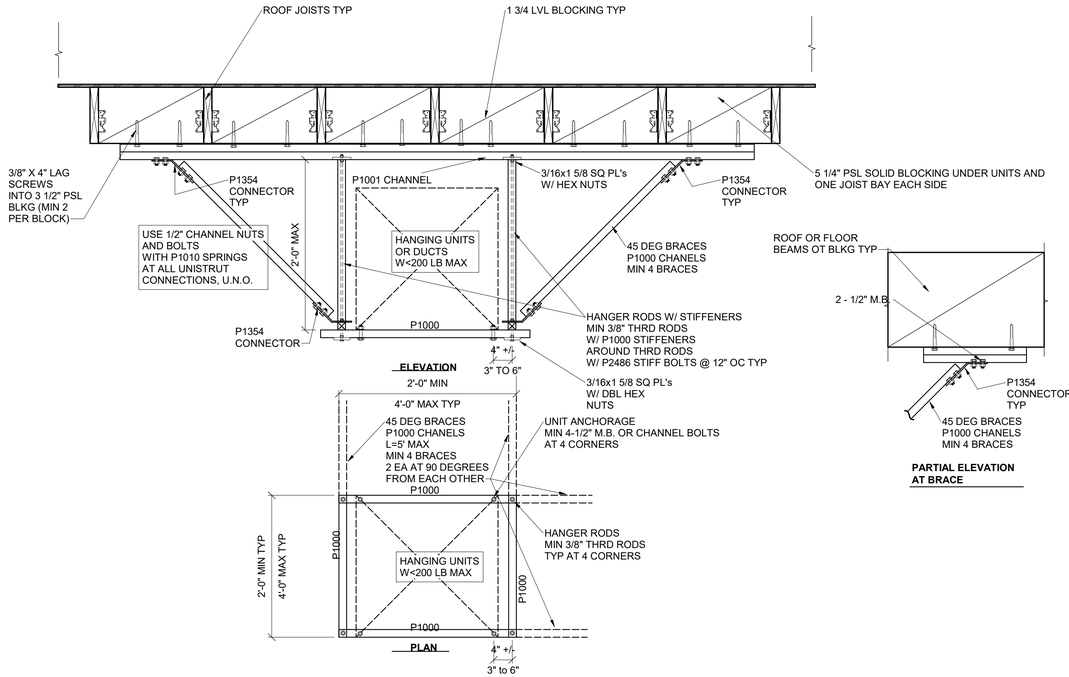
NOTES
1. ANCHORAGE BOLTS APPLY TO THE ANCHORAGE BETWEEN THE MECHANICAL UNIT TO THE CURBS AND LAGS SCREWS FROM THE CURBS TO THE SUPPORTING FRAMING.

1 S8.09 MECHANICAL UNIT ANCHORAGE SCHEDULE
NTS

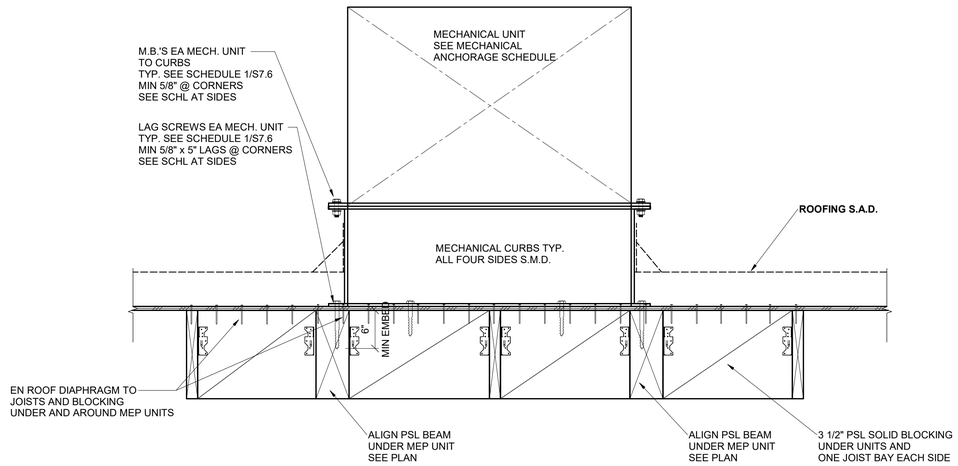
ELECTRICAL EQPT. SCHEDULE

UNIT ID	LOCATION OF MOUNTING	ELEC UNIT WEIGHT (MAX)	E.B.'s AT CORNERS HILTI KB TZ2 EMBED 4"	E.B.'s AT LONG SIDES HILTI KB TZ2 EMBED 4"	E.B.'s AT SHORT SIDES HILTI KB TZ EMBED 4"	REFERENCE DETAILS	COMMENTS
DIST. PANEL	SLAB-ON-GRADE	500 LB	5/8"ø E.B. EA. CORNER	5/8"ø E.B. @ 24" OC	-	-/---	2'-0" x 3'-6" x 6'-0" TALL
ELEC PANELS ON WALLS	STUD WALLS	100 LB MAX	#14x3" WOOD SCREWS EA. CORNER & 12" OC SIDES	N/A	N/A		AT STUD WALLS

3 S8.09 ELECTRICAL PANEL ANCHORAGE SCHEDULE
NTS



8 S8.09 HANGING MEP UNITS (FAN COILS)
3/4" = 1'-0"



4 S8.09 MECHANICAL UNIT ANCHORAGE DETAIL AT MECH WELLS
1" = 1'-0"

Project Title:

CITY OF BERKELEY
PARKS, RECREATION & WATERFRONT DEPARTMENT

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REGISTERED PROFESSIONAL ENGINEER · JASON M. LEE · No. S4980 · STRUCTURAL · STATE OF CALIFORNIA

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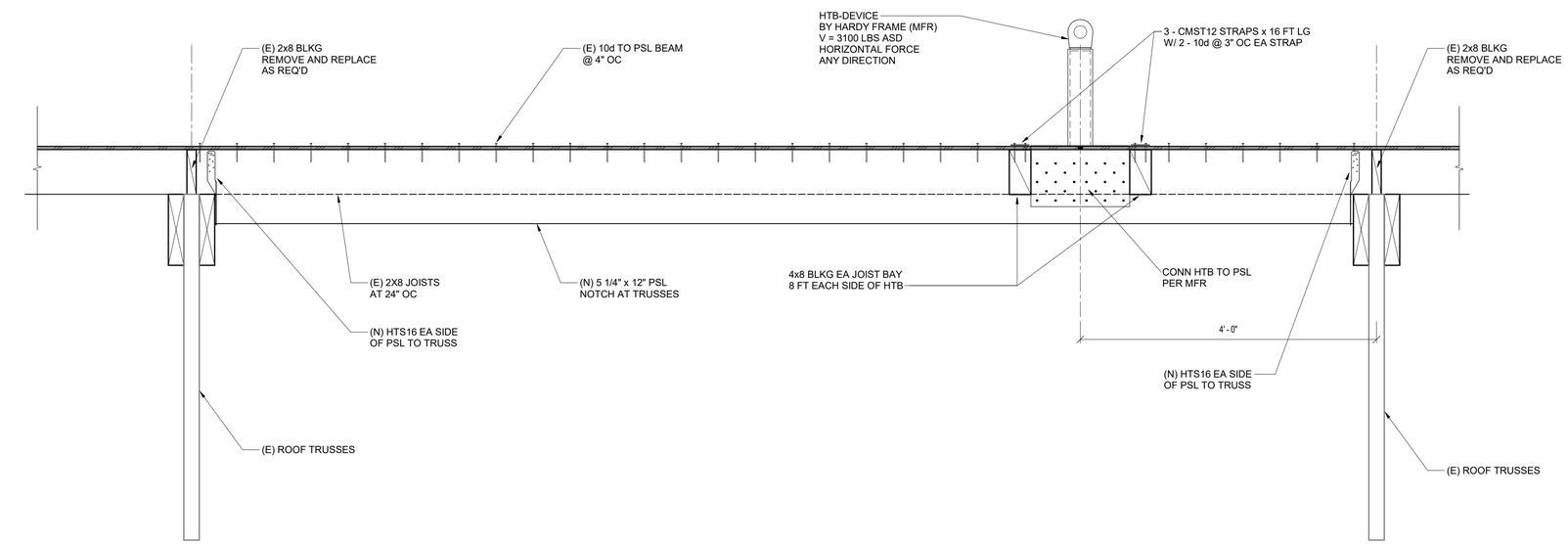
Sheet Title:

ME EQUIPMENT ANCHORAGE

Sheet No.:

S8.09

3/5/2025 12:44:11 PM



1 S8.10 SECTION AT GYM ROOF FALL PROTECTION ANCHORS (TOTAL 2)

1" = 1'-0"

Project Title:

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Sheet Title:

ROOF FALL PROTECTION ANCHORS

Sheet No.:

S8.10

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ABBREVIATIONS

AC	AIR CONDITIONING
AC	ALTERNATING CURRENT
ACH	AIR CHANGES PER HOUR
ACM	ASBESTOS CONTAINING MATERIAL
AEE	ASSOCIATION OF ENERGY ENGINEERS
AFD	ADJUSTABLE FREQUENCY DRIVE
AFUE	ANNUAL FUEL EFFICIENCY RATIO
AHU	AIR HANDLING UNIT
AI	ANALOG INPUT
AO	ANALOG OUTPUT
ASHRAE	AMERICAN SOCIETY OF HEATING REFRIGERATION AND AIR CONDITIONING ENGINEERS
B	BOILER
BACNET	A DATA COMMUNICATION PROTOCOL FOR BUILDING AUTOMATION AND CONTROL NETWORKS
BAS	BUILDING AUTOMATION SYSTEM
BCA	BUILDING COMMISSIONING ASSOCIATION
BDD	BACKDRAFT DAMPER
BI	BINARY INPUT
BO	BINARY OUTPUT
BSLN	BASELINE
BTU	BRITISH THERMAL UNIT
BTUH	BRTISH THERMAL UNITS / HOUR
BY	BASE YEAR
CAV	CONSTANT AIR VOLUME
CD	COLD DECK
CDD	COOLING DEGREE DAYS
CEM	CERTIFIED ENERGY MANAGER
CFC	CHLOROFLUOROCARBON
CFM	CUBIC FEET PER MINUTE
CH	CHILLER
CHW	CHILLED WATER
CHWP	CHILLED WATER PUMP
CHWR	CHILLED WATER RETURN
CHWRT	CHILLED WATER RETURN TEMPERATURE
CHWS	CHILLED WATER SUPPLY
CHWST	CHILLED WATER SUPPLY TEMPERATURE
CLF	COOLING LOAD FACTOR
CLTD	COOLING LOAD TEMPERATURE DIFFERENCE
COP	COEFFICIENT OF PERFORMANCE
CRAC	COMPUTER ROOM AIR CONDITIONER
CT	COOLING TOWER
CV	CONSTANT VOLUME
CVRMSE	COEFFICIENT OF VARIATION OF THE ROOT MEAN SQUARE OF THE ERROR
CWP	CONDENSER WATER PUMP
CWR	CONDENSER WATER RETURN
CWRT	CONDENSER WATER RETURN TEMPERATURE
CWS	CONDENSER WATER SUPPLY
CWST	CONDENSER WATER SUPPLY TEMPERATURE
CY	CURRENT YEAR
DA	DISCHARGE AIR
DB	DATA BASE
DB	DRY BULB
DC	DIRECT CURRENT
DCV	DEMAND CONTROLLED VENTILATION
DD	DEGREE DAY
DDC	DIRECT DIGITAL CONTROL
DH	DUCT HEATER
DI	DIGITAL INPUT
DO	DIGITAL OUTPUT
DP	DEW POINT
DP	DIFFERENTIAL PRESSURE
DX	DIRECT EXPANSION
EAT	ENTERING AIR TEMPERATURE
ECM	ELECTRONICALLY COMMUTATED MOTOR
ECM	ENERGY CONSERVATION MEASURE
ECO	ENERGY CONSERVATION OPPORTUNITY
EDH	ELECTRIC DUCT HEATER
EEM	ENERGY EFFICIENCY MEASURE
EER	ENERGY EFFICIENCY RATIO
EF	EXHAUST FAN
EH	ELECTRIC HEATER
EMS	ENERGY MANAGEMENT SYSTEM
ESCO	ENERGY SERVICE COMPANY
EUH	ELECTRIC UNIT HEATER
EWT	ENTERING WATER TEMPERATURE
FC	FORWARD CURVE
FCU	FAN COIL UNIT
FIM	FACILITY IMPROVEMENT MEASURE
FLA	FULL LOAD AMPS
FMS	FACILITY MANAGEMENT SYSTEM
FPM	FEET PER MINUTE
FW	FEED WATER
GPM	GALLONS PER MINUTE
HCFC	HYDROCHLOROCFUOROCARBON
HD	HOT DECK
HDD	HEATING DEGREE DAYS
HEPA	HIGH EFFICIENCY PARTICULATE ARRESTING
HHV	HIGHER HEATING VALUE
HHWP	HEATING HOT WATER PUMP
HHWR	HEATING HOT WATER RETURN
HHWS	HEATING HOT WATER SUPPLY
HL	HIGH LIMIT
HPS	HIGH PRESSURE STEAM
HR	HEAT RECOVERY
HRU	HEAT RECOVERY UNIT
HRV	HEAT RECOVERY VENTILATOR
HSPF	HEATING SEASONAL PERFORMANCE FACTOR
HVAC	HEATING VENTILATION AND AIR CONDITIONING
HWP	HOT WATER PUMP
HWR	HOT WATER RETURN
HWS	HOT WATER SUPPLY
HWRT	HOT WATER RETURN TEMPERATURE
HWST	HOT WATER SUPPLY TEMPERATURE
HX	HEAT EXCHANGER
I/O	INPUT OUTPUT
IAQ	INDOOR AIR QUALITY
IPMVP	INTERNATIONAL PERFORMANCE MEASUREMENT AND VERIFICATION PROTOCOL
IR	INFRA-RED
LAT	LEAVING AIR TEMPERATURE
LHV	LOWER HEATING VALUE
LL	LOW LIMIT
LON	LOCAL OPERATING NETWORK
LP	LOW PRESSURE
LPS	LOW PRESSURE STEAM
LRA	LOCKED ROTOR AMPS
LWBT	LEAVING WET BULB TEMPERATURE
LWT	LEAVING WATER TEMPERATURE
M&V	MEASUREMENT AND VERIFICATION
MA	MIXED AIR
MAT	MIXED AIR TEMPERATURE
MCC	MOTOR CONTROL CENTER
MUA	MAKE-UP AIR UNIT
MX	METRIX UTILITY ACCOUNTING SYSTEM
MZ	MULTI-ZONE
NC	NORMALLY CLOSED
NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
NO	NORMALLY OPEN
NPSH	NET POSITIVE SUCTION HEAD
OA	OUTSIDE AIR
OAP	OUTSIDE AIR PERCENTAGE
OAT	OUTSIDE AIR TEMPERATURE
ODP	OPEN DRIP PROOF
OWS	OPERATOR WORK STATION
PC	PERFORMANCE CONTRACTING
PE	PROFESSIONAL ENGINEER
PH	PRE-HEAT
PID	PROPORTIONAL INTEGRAL DERIVATIVE
PRV	PRESSURE RELIEF VALVE
PRV	PRESSURE REDUCING VALVE
PTAC	PACKAGED TERMINAL AIR CONDITIONER
RA	RETURN AIR
RF	RETURN FAN
RH	REHEAT
RH	RELATIVE HUMIDITY
RPM	REVOLUTIONS PER MINUTE
RTD	RESISTANCE TEMPERATURE DETECTOR
RTU	ROOF TOP UNIT
SA	SUPPLY AIR
SAT	SUPPLY AIR TEMPERATURE
SC	SHADING COEFFICIENT
SEER	SEASONAL ENERGY EFFICIENCY RATIO
SF	SUPPLY FAN
SHFG	SOLAR HEAT GAIN FACTOR
SHR	SENSIBLE HEAT RATIO
SP	SET POINT
SP	STATIC PRESSURE
SWP	STEAM WORKING PRESSURE
T	TEMPERATURE
T	THERMOSTAT
TEV	THERMOSTATIC EXPANSION VALVE
TOD	TIME OF DAY
TORR	MILLIMETER OF MERCURY (MMHG)
TXV	THERMOSTATIC EXPANSION VALVE
UH	UNIT HEATER
UV	ULTRAVIOLET
UV	UNIT VENTILATOR
VAV	VARIABLE AIR VOLUME
VD	VOLUME DAMPER
VFD	VARIABLE FREQUENCY DRIVE
VSD	VARIABLE SPEED DRIVE
VSP	VARIABLE SPEED PUMP(ING)
WB	WET BULB
WC	WATER COLUMN
YTD	YEAR TO DATE

MECHANICAL

NUMBER	NAME
M0.1	COVER SHEET
M0.2	SCHEDULES
M2.1	MECHANICAL - FLOOR PLAN
M2.2	MECHANICAL - LOW ROOF PLAN
M3.1	MECHANICAL - PIPING FLOOR PLAN
M3.2	MECHANICAL - PIPING LOW ROOF PLAN
M4.1	MECHANICAL - AIR TERMINAL PLAN
M5.1	MECHANICAL SECTIONS
M5.2	MECHANICAL SECTIONS
M6.1	MECHANICAL ENLARGED PLANS
M6.2	MECHANICAL ENLARGED PLANS
M7.1	CONTROLS - OVERALL
M7.2	CONTROLS - DETAILS
M7.3	CONTROLS - DETAILS
M8.1	DETAILS
M8.2	DETAILS
M9.1	TITLE 24
M9.2	TITLE 24
M9.3	TITLE 24
M9.4	TITLE 24

APPLICABLE CODES

2022 CALIFORNIA BUILDING CODE
2022 CALIFORNIA ELECTRICAL CODE
2022 CALIFORNIA MECHANICAL CODE
2022 CALIFORNIA ENERGY CODE
2022 CALIFORNIA FIRE CODE
2022 CALIFORNIA HEALTH AND SAFETY CODE
ADOPTED CITY OF BERKELEY AMENDMENTS

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HVAC LEGEND AND SYMBOLS

SYMBOL	DESCRIPTION
FC	FLEXIBLE CONNECTION
	FLEXIBLE DUCT RUNOUT TO DIFFUSER
12x6	DUCT SIZE (WIDTH X DEPTH)
VD	VOLUME DAMPER
STD	SPLITTER DAMPER
ED	EXTRACTOR DAMPER
DSD	DUCT SMOKE DETECTOR
	SUPPLY DUCT UP
	SUPPLY DUCT DOWN
	EXHAUST DUCT UP
	EXHAUST DUCT DOWN
	RETURN DUCT UP
	RETURN DUCT DOWN
	CROSS SECTION OF ROUND DUCT
	DUCT ELBOW WITH TURNING VANES
	DUCT ELBOW WITHOUT TURNING VANES

SYMBOL	DESCRIPTION
	TRANSITION
	FLARED TAKEOFF (RECTANGULAR DUCT)
	SPIN-IN FITTING W/VD (ROUND BRANCH TAKEOFF FROM RECTANGULAR MAIN)
	45° LATERAL TAKEOFF (ROUND/OVAL DUCT) COULD BE ANY ANGLE
	VARIABLE ANGLE CONICAL TAKEOFF 90° TAKEOFF W/BOOT FITTING (ROUND DUCT)
	END CAP
	RECTANGULAR MITERED ELBOW WITH TURNING VANES
16 X 16 (2"L)	ACOUSTICAL LINING, DUCT DIMENSION IS SHEET METAL O.D.
12 X 12 (2"INS)	EXTERIOR INSULATION, DUCT DIMENSION IS SHEET METAL O.D.
8'-11" BD	INDICATES 8'11" TO BOTTOM OF DUCT
AX-Y	CEILING SUPPLY DIFFUSER
AX-Y	CEILING RETURN GRILLE
AX-Y	CEILING EXHAUST GRILLE
AX-Y	WALL SUPPLY GRILLE OR WALL REGISTER
AX-Y	WALL RETURN REGISTER

SYMBOL	DESCRIPTION
T	AIR TEMP SENSOR
C02	CO2 SENSOR
OCC	OCCUPANCY SENSOR
TS	SLAB TEMP SENSOR
WS	WEATHER STATION
FS	FLOW SWITCH
AF	AIRFLOW MONITORING STATION
DSD	DUCT SMOKE DETECTOR
T	THERMOSTAT / TEMP GAUGE
P	PRESSURE GAUGE
CF	CEILING FAN SPEED CONTROLLER
WA	WINDOW ACTUATOR OVERRIDE
WA-CP	WINDOW ACTUATOR CONTROL PANEL

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GENERAL NOTES

ARCHITECTURAL
1. DO NOT SCALE DRAWINGS. REFER TO ARCHITECTURAL DRAWINGS AND REFLECTED CEILING PLANS FOR EXACT LOCATION OF DOORS, WINDOWS, CEILING DIFFUSERS, ETC.
2. LIGHT FIXTURE LOCATIONS TAKE PRECEDENCE OVER DIFFUSER AND GRILLE LOCATIONS. LOCATE DIFFUSERS AND GRILLES TO ACCOMMODATE LIGHTING LAYOUT.
3. REFER TO ARCHITECTURAL FLOOR PLANS FOR LOCATION AND RATING OF ALL FIRE WALLS.

GENERAL
1. THE HVAC CONTRACTOR SHALL VISIT THE JOB SITE AND BE FAMILIAR WITH ALL PROJECT CONDITIONS PRIOR TO FABRICATING DUCTWORK, EQUIPMENT, ETC. NO ALLOWANCES WILL BE MADE FOR CONTRACTOR'S UNFAMILIARITY WITH PROJECT CONDITIONS.
2. PIPING AND DUCTWORK ROUTING SHOWN IS SCHEMATIC. HVAC CONTRACTOR SHALL PROVIDE ANY ADDITIONAL OFFSETS AND FITTINGS, INCLUDING DIVIDED DUCTS, REQUIRED FOR PROPER INSTALLATION AND TO MAINTAIN CLEARANCES ASENCOUNTERED IN THE FIELD.
3. FURNISH ALL LABOR, MATERIAL AND EQUIPMENT REQUIRED FOR THE COMPLETE INSTALLATION AND OPERATION OF ALL SYSTEMS IN THIS SECTION OF WORK IN ACCORDANCE WITH ALL APPLICABLE CODES, ASHRAE, SMACNA, NFPA, EPA, ETC.
4. PRIOR TO INSTALLATION OF ASSOCIATED WORK; INSTALLER SHALL MEET AT PROJECT SITE WITH GENERAL CONTRACTOR, INSTALLER OF EACH COMPONENT OF ASSOCIATED WORK, INSPECTION AND TESTING AGENCY REPRESENTATIVES (IF ANY), INSTALLERS OF OTHER WORK REQUIRING COORDINATION WITH WORK OF THIS SECTION AND ARCHITECT / OWNER FOR PURPOSE OF COORDINATING LOCATIONS OF PROPOSED SYSTEMS, REVIEWING MATERIAL SELECTIONS, AND PROCEDURES TO BE FOLLOWED IN PERFORMING THE WORK IN COMPLIANCE WITH REQUIREMENTS SPECIFIED.
5. COORDINATE INSTALLATION AND LOCATIONS OF DUCTWORK AND PIPING WITH BUILDING STRUCTURE, PLUMBING PIPING, ELECTRICAL CONDUIT, LIGHTING, ETC. PRIOR TO PURCHASING OR INSTALLING EQUIPMENT AND MATERIALS.
6. ALL PIPING, DUCTS, VENTS, ETC. EXTENDING THROUGH WALLS AND ROOF SHALL BE FLASHED AND COUNTERFLASHED IN A WATERPROOF MANNER.
7. MAINTAIN MINIMUM OF TEN (10) FEET BETWEEN OUTDOOR AIR INTAKES AND EXHAUST FAN DISCHARGE, PLUMBING VENTS, ETC.
8. REFER TO PIPING DRAWINGS FOR LOCATION AND ROUTING OF ALL CONDENSATE DRAIN LINE CONNECTION POINTS.
9. DIVISION 23 SHALL BE LICENSED TO PERFORM MECHANICAL WORK IN THE MUNICIPALITY IN WHICH THE PROJECT IS LOCATED.
10. DIVISION 23 SHALL GUARANTEE ALL WORK PERFORMED AND MATERIALS FURNISHED UNDER THIS CONTRACT AGAINST DEFECTS IN MATERIALS AND WORKMANSHIP FOR A PERIOD OF ONE (1) YEAR FROM THE DATE OF THE OWNER'S FINAL ACCEPTANCE OF THE WORK. ANY DEFECTS SHALL BE RECTIFIED BY DIVISION 15 WITHOUT ANY ADDITIONAL COST TO THE OWNER.
11. WORK SHALL COMPLY WITH THE LATEST REVISIONS OF CALIFORNIA BUILDING CODE, CALIFORNIA MECHANICAL CODE, CALIFORNIA ENERGY CODE, AND ANY STATE AND LOCAL CODES OR REGULATIONS THAT APPLY.
    A. IN CASE OF CONFLICTS BETWEEN DRAWINGS, SPECIFICATIONS, AND INTERPRETATION OF CODES BY LOCAL AUTHORITY, LATER SHALL GOVERN.

EQUIPMENT
1. ALL HVAC EQUIPMENT SHALL BE INSTALLED PER MANUFACTURER'S REQUIREMENTS AS SHOWN. UTILIZE FACTORY FILTERS DURING CONSTRUCTION AND REPLACE (IN KIND) JUST PRIOR TO TESTING AND BALANCING.
2. ALL EQUIPMENT SHALL HAVE A ONE (1) YEAR WARRANTY; COMPRESSORS SHALL HAVE AN ADDITIONAL FIVE (5) YEAR EXTENDED WARRANTY, ROOFTOP UNIT HEAT EXCHANGERS SHALL HAVE AN ADDITIONAL TEN (10) YEAR EXTENDED WARRANTY; PROVIDE WRITTEN GUARANTEE.
3. GENERAL CONTRACTOR SHALL STORE ALL HVAC EQUIPMENT (ROOFTOP UNITS, DUCTWORK, ETC.) THAT ARRIVES AT THE PROJECT SITE. STORE ALL EQUIPMENT IN A DRY PLACE, PROTECTING ALL EQUIPMENT FROM THE WEATHER, CONSTRUCTION TRAFFIC AND THEFT.
4. ROOF CURBS SHALL HAVE A BASE THAT FITS SLOPE OF ROOF AS REQUIRED. TOP OF ROOF CURB SHALL BE LEVEL.
5. FLEXIBLE CONNECTORS SHALL BE INSTALLED ON SUPPLY, RETURN, AND EXHAUST AIR DUCTS AT ALL EQUIPMENT CONNECTIONS.

DUCTWORK
1. RUN ALL DUCTWORK AND PIPING AS TIGHT TO BOTTOM OF STEEL AS POSSIBLE OR RUN THRU OPEN JOIST WEBBING.
2. DUCTWORK SHALL NOT BE SUPPORTED FROM BRIDGING, CONDUIT, PIPING, ETC. OF ANY KIND. DO NOT USE FASTENERS THAT PENETRATE ROOF DECKS.
3. ASPECT RATIO SHALL NOT EXCEED 3:1.
4. ALL DUCTWORK INSTALLATION SHALL RUN CONTINUOUSLY THROUGH PARTITIONS.
5. LOCATE ALL DUCT BALANCING DAMPERS, CONTROL DAMPERS AND FIRE DAMPERS ABOVE ACCESSIBLE CEILINGS OR PROVIDE CEILING ACCESS DOORS.
    A. WHERE DUCTWORK PASSES THROUGH A FIRE-RATED ASSEMBLY, AND THERE ARE O FIRE DAMPERS SHOWN ON THE PLANS (DUCTWORK SIZE IS LESS THAN 100 SQUARE INCHES), PROVIDE THE FOLLOWING, MINIMUM:
        1. A MINIMUM OF 12-INCH LONG BY 0.060-INCH THICK STEEL SLEEVE SHALL BE CENTERED IN EACH DUCT OPENING.
        2. THE SLEEVE SHALL BE SECURED TO BOTH SIDES OF THE WALL AND ALL FOUR SIDES OF THE SLEEVE WITH A MINIMUM OF 1-1/2" x 1-1/2" X 0.060" STEEL RETAINING ANGLES.
        3. THE RETAINING ANGLES SHALL BE SECURED TO THE SLEEVES AND THE WALL WITH NO. 10 (M5) SCREWS.
        4. THE ANNULAR SPACE BETWEEN THE STEEL SLEEVE AND WALL SHALL BE FILLED WITH SILICONE ELASTOMER TO PROVIDE A MINIMUM 2-HOUR RATED FIRESTOP.
6. PROVIDE VOLUME CONTROL DAMPERS WITH QUADRANT AND LOCK AND STANDOFF COLLAR AT ALL BRANCH DUCTS TO DIFFUSERS. INSTALL AT A MINIMUM OF TWO DUCT WIDTHS FROM BRANCH TAKEOFF.
7. DUCTWORK SIZES INDICATED ON DRAWINGS ARE INSIDE, FREE AND CLEAR DIMENSIONS. INCREASE DUCT OUTSIDE DIMENSION SIZE BY TWO (2) TIMES THE THICKNESS OF THE INSULATION.
8. ALL DUCTWORK SHALL BE CONSTRUCTED AND INSTALLED IN ACCORDANCE WITH SMACNA STANDARDS.
9. ALL DUCTWORK SHALL BE GALVANIZED SHEET METAL IN AREAS WITH FINISHED CEILINGS.
10. WHERE RECTANGULAR DUCTWORK IS INDICATED, AND AT INSTALLERS OPTION, SPIRAL AND ROUND DUCTWORK MAY BE SUBSTITUTED FOR RECTANGULAR DUCTWORK PROVIDED THEY ARE EQUIVALENT TO THE RECTANGULAR DIMENSIONS INDICATED ON THE DRAWINGS (i.e.: 8x4 = 8"0, 10x6 = 10"0).
11. PROVIDE INTERNALLY LINED SUPPLY AIR DUCTWORK FROM FAN COIL UNITS TO A MINIMUM OF 10-FEET AWAY FROM THE UNIT.
12. ALL RETURN AIR DUCTWORK SHALL BE INTERNALLY LINED.
13. ALL DUCT LINERS SHALL BE MINIMUM 1-1/2" THICK, COATED TO PREVENT ELEMENTS FROM ENTERING THE AIRSTREAM (COATING SHALL MEET ASHRAE 62 - LATEST EDITION), AND ENVIRONMENTALLY FRIENDLY WITH A MINIMUM R-VALUE OF R-6. LINER SHALL BE BLACK IN COLOR SO IT IS NOT NOTICEABLE FROM THE INSIDE OF REGISTERS AND GRILLES.
14. ALL SQUARE ELBOWS SHALL HAVE AIRFOIL TYPE TURNING VANES.
15. MAXIMUM FLEXIBLE DUCT LENGTH SHALL BE 5'-0". ALL FLEXIBLE DUCT SHALL CONFORM TO THE REQUIREMENTS OF U.L. 181 FOR CLASS 1 FLEXIBLE AIR DUCTS, WITH A MINIMUM R-VALUE OF R-6. SUPPORT FLEXIBLE DUCT TO ELIMINATE KINKING AND SAGGING. (FLEXIBLE DUCT IS NOT PERMITTED IN EXPOSED AREAS, RETURN AIR GRILLE AND EXHAUST AIR GRILLE CONNECTIONS).

PIPING
1. ALL PIPING LINES, INCLUDING CONDENSATE DRAINS, SHALL BE FULLY INSULATED WITH MINIMUM 1-1/2" THICK, 0.75 LB DENSITY, INSULATION WITH ALL SERVICE JACKET AND VAPOR BARRIER, FLAME SPREAD RATING OF 25 OR LESS, AND SMOKE-DEVELOPED RATING OF 50 OR LESS.
2. CONDENSATE PIPING FROM AIR CONDITIONING EQUIPMENT SHALL BE PITCHED A MINIMUM OF 1/4" PER FOOT, IN THE DIRECTION OF FLOW.
3. CONDENSATE DRAIN PIPES SHALL HAVE CLEANOUTS AT EVERY CHANGE IN DIRECTION, DISTANCES GREATER THAN 3 FEET, AND AT THE BEGINNING OF LONG STRAIGHT RUNS.
4. HVAC CONTRACTOR SHALL BE RESPONSIBLE FOR THE SIZING OF REFRIGERANT LINES. HVAC EQUIPMENT SUPPLIER SHALL VERIFY REFRIGERANT PIPE LINE SIZES AND CONFIGURATIONS BASED ON CONTRACTOR'S PROPOSED PIPE ROUTING.

CONTROLS
1. THE CITY OF BERKELEY'S STANDARD CONTROLS SYSTEM IS "IM-IN-CONTROL". PROVIDE AN "IM-IN-CONTROL" CONTROL SYSTEM. REFER TO SHEETS M7.1 THRU M7.3 FOR DESIGN INTENT. WWW.ININCONTROL.COM
2. ALL CONTROL WIRING AND CONDUIT SHALL COMPLY WITH THE NATIONAL ELECTRIC CODE (NEC) AND NFPA 70.
3. ALL CONTROL WIRING AND POWER CONDUCTOR INSULATION SHALL BE PLENUM RATED.
4. ALL EXPOSED CONTROL WIRING SHALL BE INSTALLED IN 3/4" EMT CONDUIT.
5. PROVIDE ALL RELAY, CONTRACTORS, ETC. REQUIRED TO ACHIEVE INTERLOCK OPERATION OF EQUIPMENT.

BALANCING
1. MECHANICAL CONTRACTOR, WHO IS CERTIFIED BY EITHER THE ASSOCIATED AIR BALANCE COUNCIL (AABC) OR NATIONAL ENVIRONMENTAL BALANCING BUREAU (NEBB); UPON COMPLETION OF THE PROJECT, SHALL PERFORM A COMPLETE TESTING AND BALANCING OF ALL EQUIPMENT. BALANCE SYSTEM TO WITHIN ±5% OF AIR QUANTITIES INDICATED ON PLANS AND SCHEDULES AND PROVIDE THE OWNER WITH A COMPLETE, SIGNED AND SEALED BALANCE REPORT.

Project Title:

CITY OF BERKELEY
PARKS, RECREATION & WATERFRONT DEPARTMENT
MLK JR. YOUTH SERVICES CENTER / YAP
SEISMIC RETROFIT AND RENOVATION
1730 Oregon Street, Berkeley, CA 94703
APN#: 053-1676-001-02

Design Firm:

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6201 Doyle Street, Suite B
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Consultant:

Stamp:

REGISTERED PROFESSIONAL ENGINEER
MATTHEW BENSHAM
No. M36987
Exp. 9-30-26
MECHANICAL
STATE OF CALIFORNIA

No.	Description	Date
	PERMIT SET	12/04/24
1	PLAN CHECK #1	03/07/25

Issue Note: PERMIT RESUBMITTAL 03/07/25

City Plan No.:	8286
City File No.:	402-145
Specification No.:	#25-11695-C
Project ID:	-
Drawn by:	Author
Checked by:	Checker
Plot Date:	-
Scale:	12" = 1'-0"

Sheet Title: COVER SHEET

Sheet No.: M0.1

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ROOFTOP AIR HANDLING UNITS

TAG	SERVICE	LOCATION	MAKE	MODEL NO.	SUPPLY FLOW (CFM)	RETURN FLOW (CFM)	MIN OCC. OA FLOW	OA UNOCC. FLOW	OA ECONOMIZER	ESP	COOLING EAT (DB / WB)	COOLING LAT (DB / WB)	COOLING CAPACITY	COOLING EFFIC,	HEAT RECOVERY EAT (DB / WB)	HEAT RECOVERY EAT (DB / WB)	HEAT RECOVERY EFFIC,	HEATING EAT (T)	HEATING LAT (T)	HEATING CAPACITY	HEATING COP	POWER SUPPLY MCA (A)	POWER SUPPLY MCOP (A)	POWER SUPPLY V/PHASE/Hz	OPERATING WEIGHT	NOTES
AHU-1	GYM	ROOF	AAON	RNA-030	8000	8000	5000	2000	8000	1.25	95 / 65	55 / 55	335,000		N/A	N/A	N/A	40	72	254,000	3.5	161	200	208 / 3 /	4000	1-7,10,11,13-14
AHU-2	GENERAL	ROOF	ALDES	PE40	3500	3500	3500	1200	3500	1.5	85 / 63	65 / 55	76,000		85 / 63	55 / 55	65	55	85	82,000	3.5	35	40	208 / 3 /	4000	1-6,8-10,12-14

NOTES
1. PROVIDE CURB WITH 2" SPRING ISOLATORS.
2. PROVIDE WITH MANUFACTURER'S CURBS
3. INCLUDE MERV 8 AND MERV 13 FILTERS.
4. PROVIDE WITH MANUFACTURER'S DUCT MOUNTED SMOKE DETECTOR.
5. PROVIDE WITH CLOGGED FILTER SWITCH WITH NOTIFICATION ON HMI.
6. VFD FANS
7. R32
8. PLATE AND FRAME HEAT RECOVERY HEAT EXCHANGER, MINIMUM 65% EFFICIENCY
9. HEAT RECOVERY BYPASS, BYPASS HEAT RECOVERY WHEN OUTDOOR AIR IS GREATER THAN 60F AND LESS THAN 86F.
10. EXHAUST FAN CONTROLLED BY DIFFERENTIAL PRESSURE SENSOR.
11. PROVIDE OUTDOOR CO2 SENSOR
12. PROVIDE OUTDOOR AIR TEMPERATURE SENSOR
13. PROVIDE DUCT MOUNTED SMOKE DETECTOR, LOCATED IN THE DISCHARGE SECTION OF THE AIR HANDLING UNIT. USING THE SMOKE DETECTOR, FIRE ALARM PANEL, AND ELECTRIC SHUT OFF, SHUT DOWN THE AIR HANDLING UNIT WHEN SMOKE IS DETECTED AND ALARM THE FIRE ALARM PANEL.
14. PROVIDE LOW SOUND CONDENSER

SINGLE ZONE HEAT PUMP SCHEDULE

SERVICE	FAN COIL UNIT	MANF.	MODEL	TYPE	COOLING (BTU)	HEATING (BTU)	AIRFLOW (HIGH/LOW) (CFM)	WEIGHT	ELECTRICAL VOLT / PH	ELECTRICAL MCA	ELECTRICAL MOP	HEAT PUMP	LOCATION	MANF.	MODEL.	COOLING EFF	HEATING EFF	COOLING (BTU)	HEATING (BTU)	WEIGHT	ELECTRICAL VOLT / PH	ELECTRICAL MCA	ELECTRICAL MOP	NOTES
COMMUNITY RM 2	**FCU-1**	DAIKIN	FBQ 24	DUCTED	24,000	27,000	742 / 565	82	208 / 1	1.9	15	**HP-1**	ROOF	DAIKIN	RZQ 24	10.5	15.5	23,400	27,400	172	208 / 1	16.5	20	1-4
COMMUNITY RM 1	**FCU-2**	DAIKIN	FBQ 36	DUCTED	35,000	40,000	1130 / 795	105	208 / 1	3.1	15	**HP-2**	ROOF	DAIKIN	RZQ 36	11.7	16.9	35,000	40,000	225	208 / 1	29.1	35	1-4
LOUNGE	**FCU-3**	DAIKIN	FBQ 24	DUCTED	24,000	27,000	742 / 565	82	208 / 1	1.9	15	**HP-3**	ROOF	DAIKIN	RZQ 24	10.5	15.5	23,400	27,400	172	208 / 1	16.5	20	1-4
COMPUTER RM	**FCU-4**	DAIKIN	FBQ 24	DUCTED	24,000	27,000	742 / 565	82	208 / 1	1.9	15	**HP-4**	ROOF	DAIKIN	RZQ 24	10.5	15.5	23,400	27,400	172	208 / 1	16.5	20	1-4
MUSIC RM.	**FCU-5**	DAIKIN	FBQ 18	DUCTED	17,700	20,600	635 / 512	77	208 / 1	1.9	15	**HP-5**	ROOF	DAIKIN	RZQ 18	10.5	15.5	17,700	20,600	172	208 / 1	16.5	20	1-4
OFFICE	**FCU-6**	DAIKIN	FBQ 18	DUCTED	17,700	20,600	635 / 512	77	208 / 1	1.9	15	**HP-5**	ROOF	DAIKIN	RZQ 18	10.5	15.5	17,700	20,600	172	208 / 1	16.5	20	1-4
MEETING ROOM	**FCU-7**	DAIKIN	FBQ 18	DUCTED	17,700	20,600	635 / 512	77	208 / 1	1.9	15	**HP-5**	ROOF	DAIKIN	RZQ 18	10.5	15.5	17,700	20,600	172	208 / 1	16.5	20	1-4
KITCHEN	**FCU-8**	DAIKIN	FAQ 18	WALL HUNG	18,000	20,000	500 / 400	31	208 / 1	0.5	15	**HP-8**	ROOF	DAIKIN	RZQ 18	10.5	15.5	17,700	20,600	172	208 / 1	16.5	20	1-4
ELECTRICAL ROOM	**FCU-9**	DAIKIN	FTX 12	WALL HUNG	12,000	N/A	400 / 300	31	208 / 1	0.5	15	**HP-9**	ROOF	DAIKIN	RXL 12	10.5	N/A	12,000	N/A	700	208 / 1	16.5	20	1-4

NOTES:
1. PROVIDE EACH FAN COIL UNIT WITH A WIRED WALL MOUNTED THERMOSTAT.
2. ROUTE CONDENSATE TO CODE APPROVED AIR GAP FITTINGS.
3. PROVIDE DRY CONTACT FOR THIRD PARTY, NEST, THERMOSTAT.
4. PROVIDE INTEGRATED CONDENSATE PUMP

EXHAUST FANS

TAG	SERVICE.	MODEL.	MANF.	DRIVE	SPEED 1 (CFM)	SPEED 2 (CFM)	SP (inWC)	SPEED CONTROL	WEIGHT	SOUND LEVELS INLET	SOUND LEVELS OUTLET	Electrical Volt	Electrical Phase	Electrical MCA	Electrical MOCP	NOTES
KEF-1	KITCHEN	CUE-140-VG	GREENHEC	DIRECT	1,650	VARIABLE	1.3	EC MOTOR	68	N/A	16.1	208	1	7.5	15	1-2,4-7
EF-1	GENERAL	RG-C811HA	PANASONI	DIRECT	100				25			120	1	0.36	15	

NOTES:
1. PROVIDE EC MOTOR WITH REMOTE MOTOR SPEED CONTROL
2. PROVIDE CANVAS FLEX FITTING AT EACH DUCT/FAN CONNECTION.
3. MOUNT ON 1" SPRING ISOLATORS, SEE SHEET M4.3
4. PROVIDE BACNET COMPATIBILITY CARD FOR CONNECT TO CAMPUS ALERTON CONTROLS SYSTEM AND ENABLE REMOTE READ AND WRITE OF ALL AVAILABLE POINTS.
5. UL 762 RATED
6. CURB MOUNTED, SEE SHEET M4.4
7. DISCONNECT BY DIV 26. STARTER BY DIV 23
8. PROVIDE BACKDRAFT DAMPER AT FAN INLET

CITY OF BERKELEY MLK YAP RENOVATION
TITLE 24 2022 VENTILATION RATE SUMMAY SCHEDULE

LOCATION	(SF)	PRIMARY AIRFLOW RATE (CFM) (CFM)	AIR SYSTEM	OCCUPANCY CLASSIFICATION	OUTDOOR AIRFLOW RATE RA (CFM/SF)	CODE POPULATION	DESIGN POPULATION	TITLE 24 OUTDOOR AIR REQUIRED (CFM)	OUTDOOR AIR SUPPLIED (CFM)	TRANSFER (CFM)	EXHAUST (CFM)
COMMUNITY ROOM 2 122	499	900	FCU-1, AHU-2	Multi-use assembly	0.15	49.9	34	329.85	550	500	
COMMUNITY ROOM 1 121	763	1200	FCU-2, AHU-2	Multi-use assembly	0.15	76.3	51	496.95	850	850	
LOUNGE 120	546	900	FCU-3, AHU-2	Multi-use assembly	0.15	54.6	37	359.4	500	500	
COMPUTER ROOM 119	515	900	FCU-4, AHU-2	Computer lab	0.15	12.875	35	427.25	500	500	
SUPERVISOR 106	144	250	FCU-5, AHU-2	Office space	0.15	0.72	1	26.6	50	50	
OFFICE 104	212	400	FCU-5, AHU-2	Office space	0.15	1.06	2	41.8	50	50	
HALLWAY 114	480	600	AHU-2	Corridors	0.15	0	0	72	200	200	
GYMNASIUM 102	5613	8000	AHU-1	Multi-use assembly	0.15	561.3	375	3654.45	5000		
KITCHEN 126	380	1500	FCU-9, AHU-2	Kitchen (cooking)	0.15	7.6	2	72	650	1000	-1650
STORAGE 124	77	0	AHU-1	No occupancy (no ventilation required)	0	0	0	0	0		
STORAGE 125	65	0	AHU-2	No occupancy (no ventilation required)	0	0	0	0	0		
HALL STORAGE 117	95	50	AHU-2	Occupiable storage rooms for dry materials	0.15	0.19	1	19.25	50	50	
IT ROOM 128	38	0	FCU-7, AHU-2	No occupancy (no ventilation required)	0	0	0	0	0		
ENGINEERING ROOM 116	59	250	FCU-7, AHU-2	Media center	0.15	1.475	2	28.85	30	30	
MUSIC BOOTH 115	59	250	FCU-7, AHU-2	Media center	0.15	1.475	2	28.85	30	30	
LOBBY	170	200	AHU-2	Main entry lobbies	0.5	1.7	4	105	200	200	
CONFERENCE ROOM 103	173	500	FCU-6, AHU-2	Conference/meeting	0.5	8.65	11	141.5	400	400	
ALL GENDER 103	80	200	AHU-2	Toilet - public	0	0	0	0	0		-400
WOMENS 110	161	500	AHU-2	Toilet - public	0	0	0	0	0		-500
MENS 111	135	500	AHU-2	Toilet - public	0	0	0	0	0		-500
STAFF RR	140	200	AHU-2	Toilet - public	0	0	0	0	0		-800
STAFF UTILITY ROOM 112	74	800	AHU-2	Occupiable storage rooms for dry materials	0.15	0.148	1	16.1	200		-200
TOTALS:	10478	18100				777.993	558	5819.85	9110		4050

GENERAL NOTES:
1. SYSTEM OUTDOOR AIR CALCULATION IS BASED ON EQUATION 120.1-G FROM TITLE 24 PART 6 - 2022

SOUND DATA SUMMARY SCHEDULE

EQUIPMENT	TAG	LwA	dBA	SONES	INLET OCTAVE BANDS 62.5	125	250	500	1000	2000	4000	8000	OUTLET OCTAVE BANDS 62.5	125	250	500	1000	2000	4000	8000	RADIATED 62.5	125	250	500	1000	2000	4000	8000
AIR HANDLER	AHU-1	NR	NR	NR	93	90	89	83	79	79	76	68	90	89	93	93	89	87	84	80	NR	NR	NR	NR	NR	NR	NR	NR
AIR HANDLER CONDENSER	AHU-1	77	NR	NR	72	77	73	73	72	69	65	59	73	78	77	74	72	69	64	59	NR	NR	NR	NR	NR	NR	NR	NR
AIR HANDLER	AHU-2	84	NR	24	NR	NR	NR	NR	NR	NR	NR	NR	89	91	86	82	75	74	72	68	NR	NR	NR	NR	NR	NR	NR	NR
KITCHEN EXHUAST FAN	KEF-1	74	63	11	74	68	77	74	65	58	57	55	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
CEILING EXHAUST	EF-2	NR	NR	0.3	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
HEAT PUMP	HP-1	NR	58	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	67	62	26	67	67	53	50	44
HEAT PUMP	HP-2	NR	59	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	70	62	60	56	54	51	42	35
HEAT PUMP	HP-3	NR	58	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	67	62	26	67	67	53	50	44
HEAT PUMP	HP-4	NR	58	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	67	62	26	67	67	53	50	44
HEAT PUMP	HP-5	NR	58	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	68	64	58	55	52	50	44	36
HEAT PUMP	HP-6	NR	61	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	68	64	58	55	52	50	44	36
HEAT PUMP	HP-7	NR	61	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	68	64	58	55	52	50	44	36
HEAT PUMP	HP-8	NR	61	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	68	64	58	55	52	50	44	36
HEAT PUMP	HP-9	NR	61	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	68	64	58	55	52	50	44	36
FAN COIL UNIT	FCU-1	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	33	42	38	36	36	29	21	17
FAN COIL UNIT	FCU-2	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	36	45	44	39	41	35	26	21
FAN COIL UNIT	FCU-3	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	33	42	38	36	36	29	21	17
FAN COIL UNIT	FCU-4	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	33	42	38	36	36	29	21	17
FAN COIL UNIT	FCU-5	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	33	40	38	36	34	28	19	15
FAN COIL UNIT	FCU-6	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	33	40	38	36	34	28	19	15
FAN COIL UNIT	FCU-7	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	33	40	38	36	34	28	19	15
FAN COIL UNIT	FCU-8	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	40	34	40	41	39	37	28	22
FAN COIL UNIT	FCU-9	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	40	34	40	41	39	37	28	22

VAV BOX SCHEDULE

TYP	MARK	MAKE	MODEL	INLET SIZE (IN)	MIN OA (CFM) BOX MIN (CFM)	MIN OA (CFM) DESIGN (CFM)	MIN OA (CFM) AREA (CFM)	MIN OA (CFM) OCCUPA (CFM)	NOTES
VAV	1	PRICE	SDV	10	95	550	75	300	1-3
VAV	2	PRICE	SDV	10	95	850	115	600	1-3
VAV	3	PRICE	SDV	10	95	500	75	300	1-3
VAV	4	PRICE	SDV	10	95	500	75	300	1-3
VAV	5	PRICE	SDV	8	60	400	30	90	1-3
VAV	6	PRICE	SDV	8	60	400	30	90	1-3
VAV	7	PRICE	SDV	8	60	200	30	90	1-3
CVD	1	ALDES	CAV	6	50	50	50	50	4
CVD	2	ALDES	CAV	6	60	60	60	60	4

NOTES:
1. TOTAL MAX AIR PRESSURE DROP, VAV BOX < 0.3inWC
2. PROVIDE THERMOSTAT WITH OCCUPIED STANDBY CONTROL OVERRIDE
3. PROVIDE THERMOSTAT WITH CO2 SENSOR.
4. CONSTANT VOLUME BOX

CONTROL PANELS

TAG	MAKE	MODEL	TYPE	SIZE HxWXD (IN)	ELECTRICAL (V / PH /	ELECTRICAL MOCP	OPERATING WEIGHT (LBS)	NOTES
PAN-1	APX	LS	NEMA 3R	41 x 25 x	120 / 1 /	20	100	1-2

NOTES:
1. PROVIDE UNIT WITH SINGLE LARGE ACCESS DOOR.
2. PROVIDE RACK RAILS AND SHELVES AS REQUIRED BY CONTROLS CONTRACTOR

DUCT MOUNTED FILTER

TAG	MAKE	MODEL	TYPE	SIZE HxWXD (IN)	FILTRATION SIZE	FILTRATION EFF	OPERATING WEIGHT (LBS)	NOTES
DF-1	AMERICAN FILTER		DUCT	18x18x12	16x16	MERV 13	100	1

NOTES:
1. PROVIDE UNIT WITH SINGLE LARGE ACCESS DOOR.

Project Title:

CITY OF BERKELEY
PARKS, RECREATION & WATERFRONT DEPARTMENT
MLK JR. YOUTH SERVICES CENTER / YAP
SEISMIC RETROFIT AND RENOVATION
1730 Oregon Street, Berkeley, CA 94703
APN#: 053-1676-001-02

Design Firm:
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Consultant:

Stamp:

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MATTHEW DEMGRAN
No. M36987
Exp. 9-30-26
STATE OF CALIFORNIA

No.	Description	Date
	PERMIT SET	12/04/24
1	PLAN CHECK #1	03/07/25

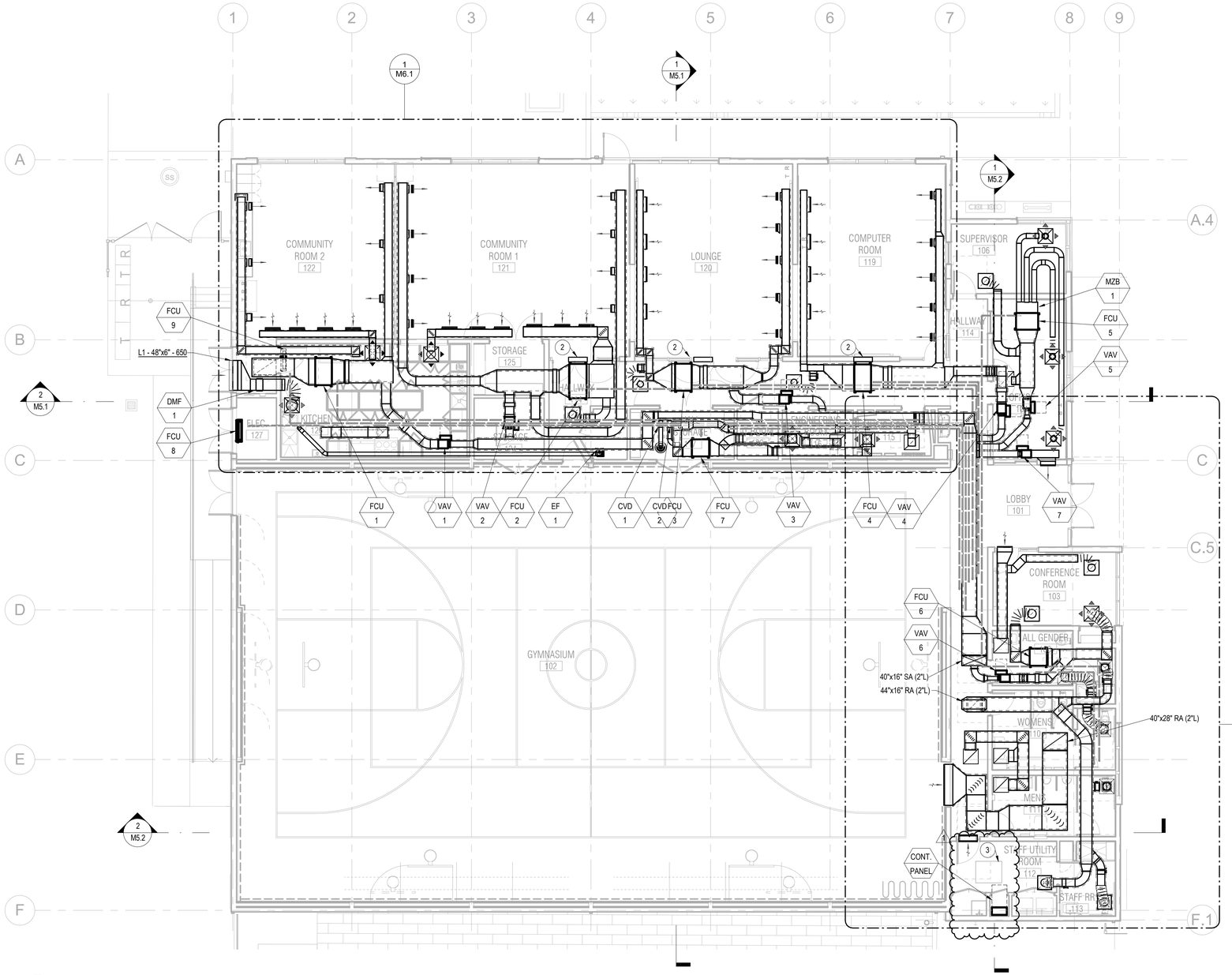
Issue Note: PERMIT RESUBMITTAL 03/07/25

City Plan No.:	8286
City File No.:	402-145
Specification No.:	#25-11695-C
Project ID:	-
Drawn by:	Author
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Plot Date:	-
Scale:	

Sheet Title: SCHEDULES

Sheet No.: M0.2

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1 M1 - FIRST FLOOR DUCTWORK
1/8" = 1'-0"

GENERAL NOTES

A. DRAWINGS ARE DIAGRAMMATIC IN NATURE. PLEASE REFER TO PROJECT DETAILS, CONTROL DRAWINGS, SPECIFICATIONS, EQUIPMENT SCHEDULES, AND MANUFACTURE SPECIFIC INSTALLATION MANUALS FOR ADDITIONAL REQUIREMENTS.
B. COORDINATE ROUTING WITH EXISTING CONDITIONS AND TRADES NOT SHOWN PRIOR TO FABRICATION OR INSTALLATION OF MECHANICAL EQUIPMENT, DUCTWORK, AND PIPING.

SHEET NOTES

1. SHEET NOTE NOT USED.
2. WALL ACCESS PANEL.
3. ROOF ACCESS.

Project Title:

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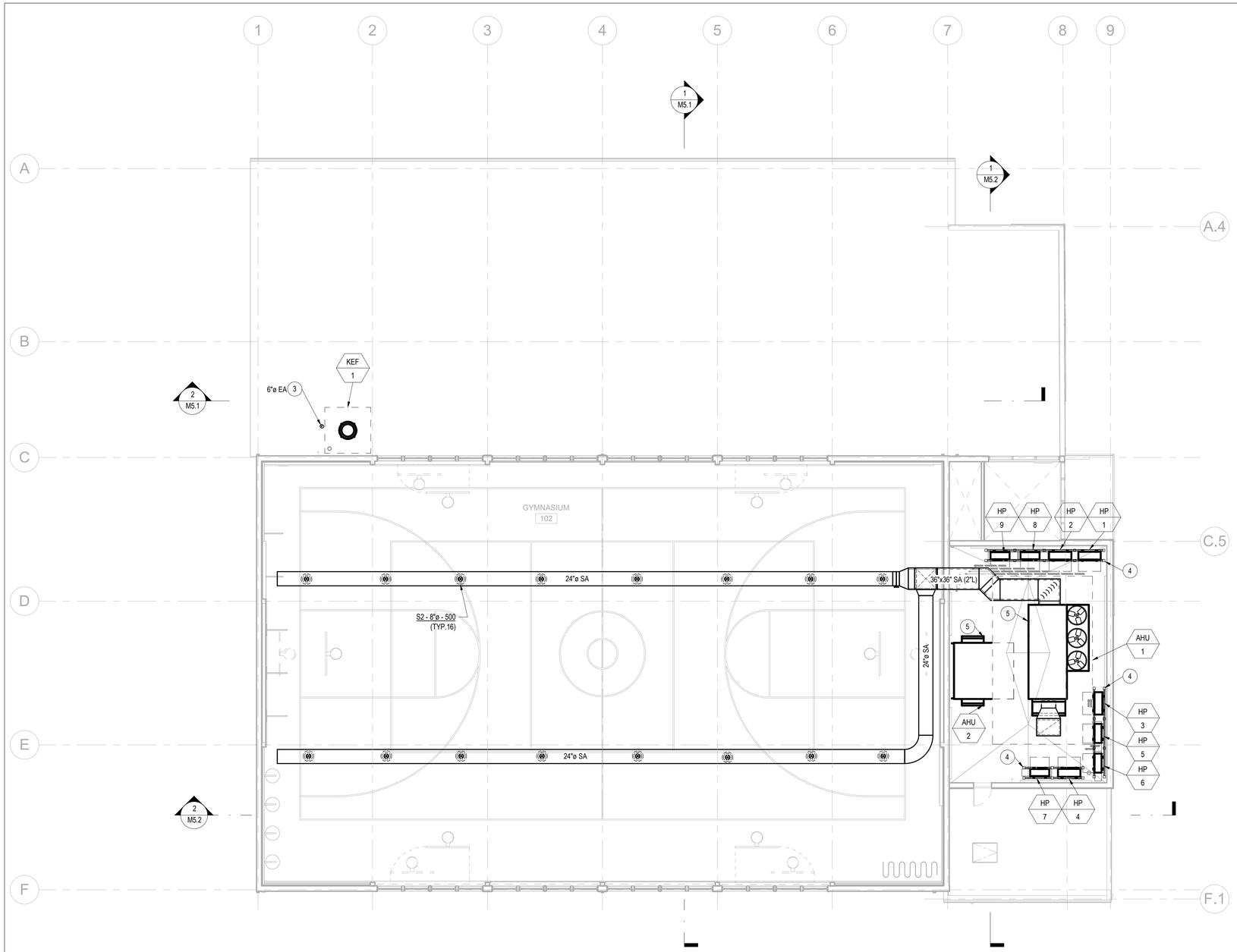
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City File No.:	402-145
Specification No.:	#25-11695-C
Project ID:	-
Drawn by:	Author
Checked by:	Checker
Plot Date:	-
Scale:	1/8" = 1'-0"

Sheet Title:
MECHANICAL - FLOOR PLAN

Sheet No.:
M2.1

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1 M4 - TOP PLATE OF GYM
1/8" = 1'-0"

GENERAL NOTES

A. DRAWINGS ARE DIAGRAMMATIC IN NATURE. PLEASE REFER TO PROJECT DETAILS, CONTROL DRAWINGS, SPECIFICATIONS, EQUIPMENT SCHEDULES, AND MANUFACTURE SPECIFIC INSTALLATION MANUALS FOR ADDITIONAL REQUIREMENTS.
B. COORDINATE ROUTING WITH EXISTING CONDITIONS AND TRADES NOT SHOWN PRIOR TO FABRICATION OR INSTALLATION OF MECHANICAL EQUIPMENT, DUCTWORK, AND PIPING.

SHEET NOTES

1. FABRIC DUCT.
2. CONDENSATE ROOF RECEPTOR. REFER TO PLUMBING FOR CONTINUATION.
3. EXHAUST ROOF CAP.
4. PROVIDE POSTS AND RAILS FOR MOUNTING OF HEAT PUMPS. ANCHOR HEAT PUMPS TO STAINLESS STEEL RAILS. PROVIDE NEOPRENE MOUNTS WITH MINIMUM 0.35 INCHES OF DEFLECTION.
5. PROVIDE CURB, ANCHOR TO CURB THROUGH 2" SPRING ISOLATORS.

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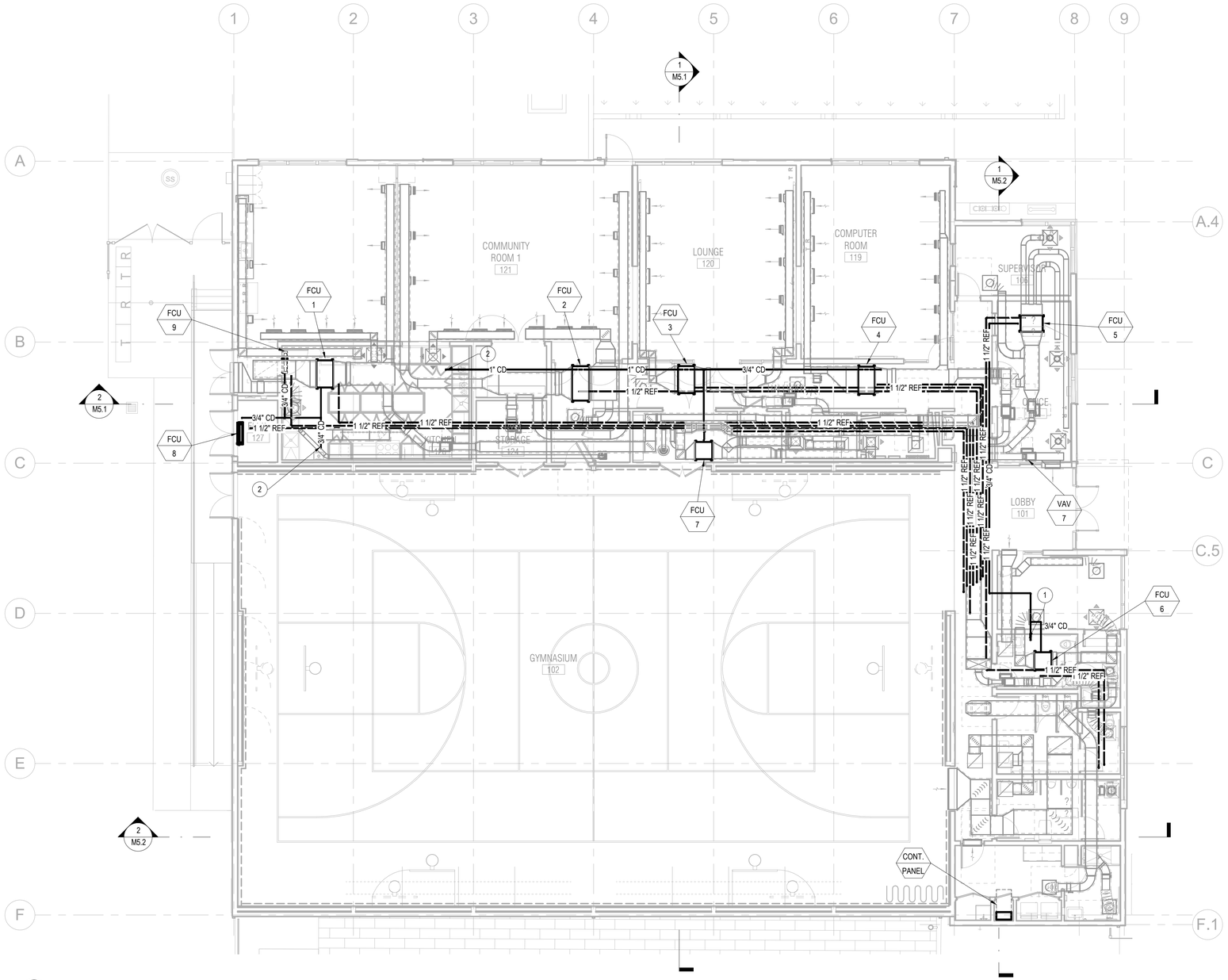
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City File No.:	402-145
Specification No.:	#25-11695-C
Project ID:	-
Drawn by:	Author
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Scale:	1/8" = 1'-0"

Sheet Title:
MECHANICAL - LOW ROOF PLAN

Sheet No.:
M2.2

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1 M1 - FIRST FLOOR PIPING
1/8" = 1'-0"

GENERAL NOTES

A. DRAWINGS ARE DIAGRAMMATIC IN NATURE. PLEASE REFER TO PROJECT DETAILS, CONTROL DRAWINGS, SPECIFICATIONS, EQUIPMENT SCHEDULES, AND MANUFACTURE SPECIFIC INSTALLATION MANUALS FOR ADDITIONAL REQUIREMENTS.

B. COORDINATE ROUTING WITH EXISTING CONDITIONS AND TRADES NOT SHOWN PRIOR TO FABRICATION OR INSTALLATION OF MECHANICAL EQUIPMENT, DUCTWORK, AND PIPING.

SHEET NOTES

1. SHEET NOTE NOT USED.

Project Title:

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PARKS, RECREATION & WATERFRONT DEPARTMENT

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No.	Description	Date
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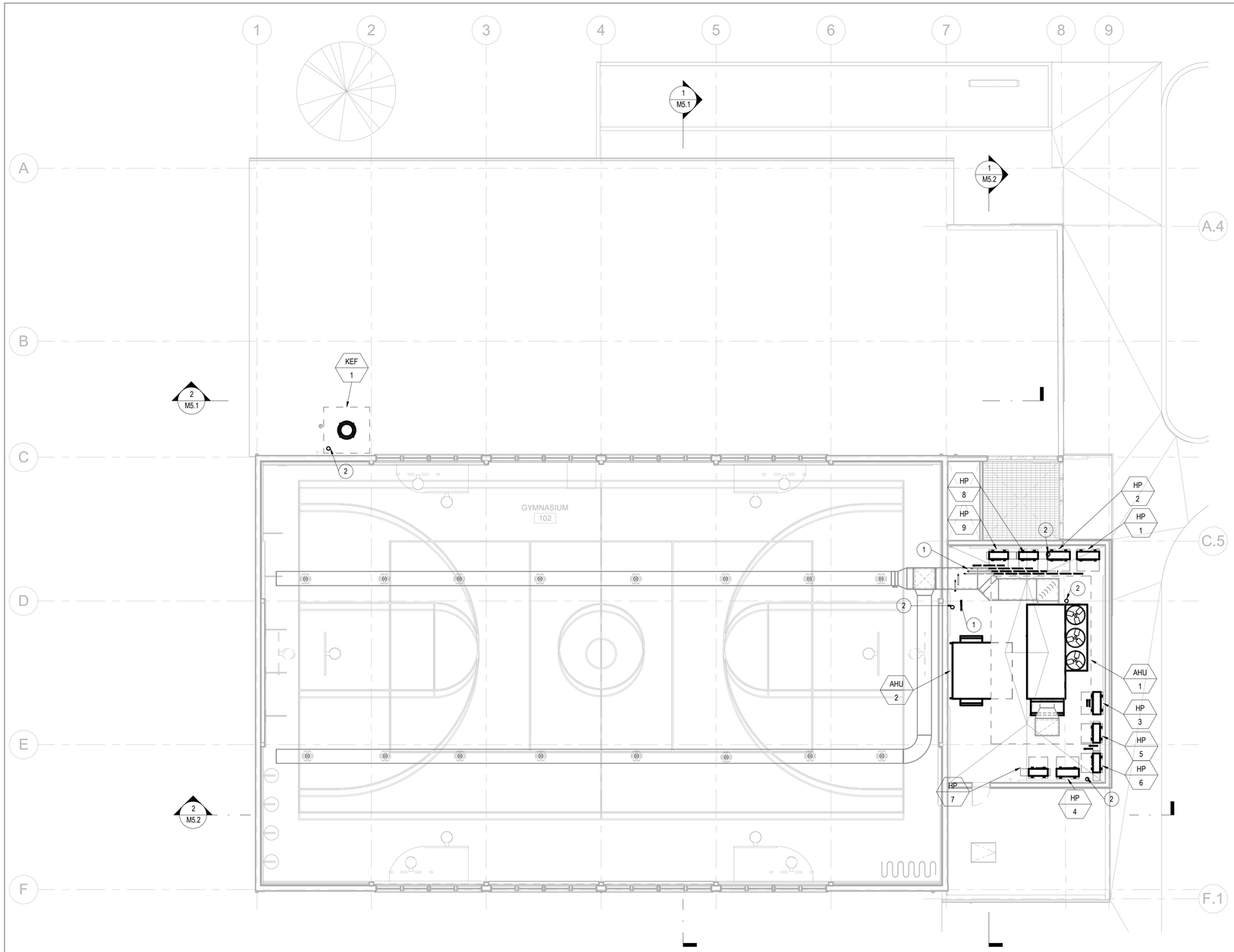
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City File No.:	402-145
Specification No.:	#25-11695-C
Project ID:	-
Drawn by:	Author
Checked by:	Checker
Plot Date:	-
Scale:	1/8" = 1'-0"

Sheet Title:
MECHANICAL - PIPING FLOOR PLAN

Sheet No.:
M3.1

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1 M4 - PIPING LOW ROOF PLAN
1/8" = 1'-0"

GENERAL NOTES

A. DRAWINGS ARE DIAGRAMMATIC IN NATURE. PLEASE REFER TO PROJECT DETAILS, CONTROL DRAWINGS, SPECIFICATIONS, EQUIPMENT SCHEDULES, AND MANUFACTURE SPECIFIC INSTALLATION MANUALS FOR ADDITIONAL REQUIREMENTS.
B. COORDINATE ROUTING WITH EXISTING CONDITIONS AND TRADES NOT SHOWN PRIOR TO FABRICATION OR INSTALLATION OF MECHANICAL EQUIPMENT, DUCTWORK, AND PIPING.

SHEET NOTES

1. PIPING THROUGH ROOF.
2. ROOF RECEPTOR. ROUTE CONDENSATE FROM HEAT PUMPS AND AIR HANDLING UNITS TO ROOF RECEPTOR.

Project Title:

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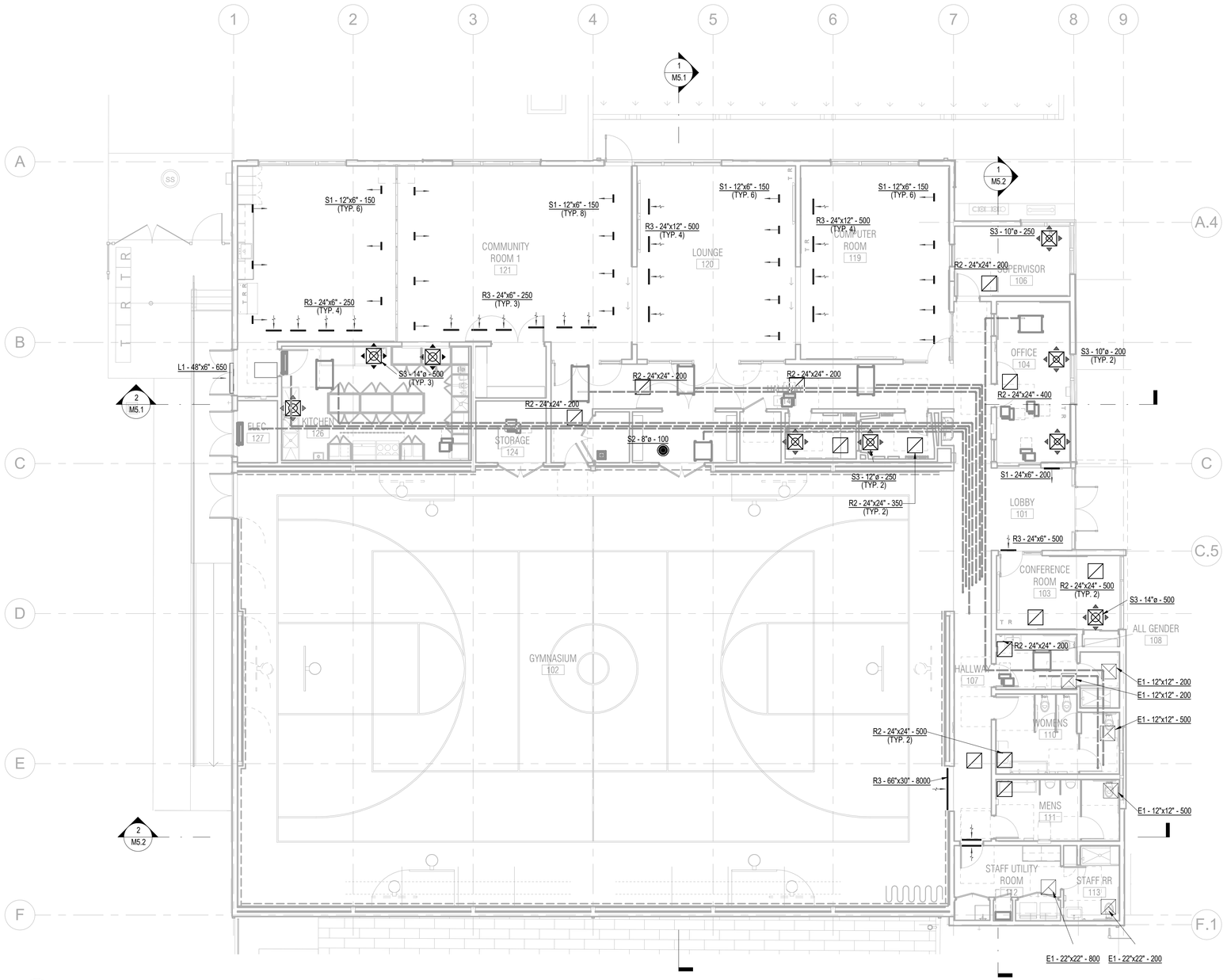
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City File No.:	402-145
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Project ID:	-
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Checked by:	Checker
Plot Date:	-
Scale:	1/8" = 1'-0"

Sheet Title:
MECHANICAL - PIPING LOW ROOF PLAN

Sheet No.:
M3.2

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1 M1 - FIRST FLOOR AIR TERMINALS
1/8" = 1'-0"

GENERAL NOTES

A. DRAWINGS ARE DIAGRAMMATIC IN NATURE. PLEASE REFER TO PROJECT DETAILS, CONTROL DRAWINGS, SPECIFICATIONS, EQUIPMENT SCHEDULES, AND MANUFACTURE SPECIFIC INSTALLATION MANUALS FOR ADDITIONAL REQUIREMENTS.

B. COORDINATE ROUTING WITH EXISTING CONDITIONS AND TRADES NOT SHOWN PRIOR TO FABRICATION OR INSTALLATION OF MECHANICAL EQUIPMENT, DUCTWORK, AND PIPING.

SHEET NOTES

1. SHEET NOTE NOT USED.

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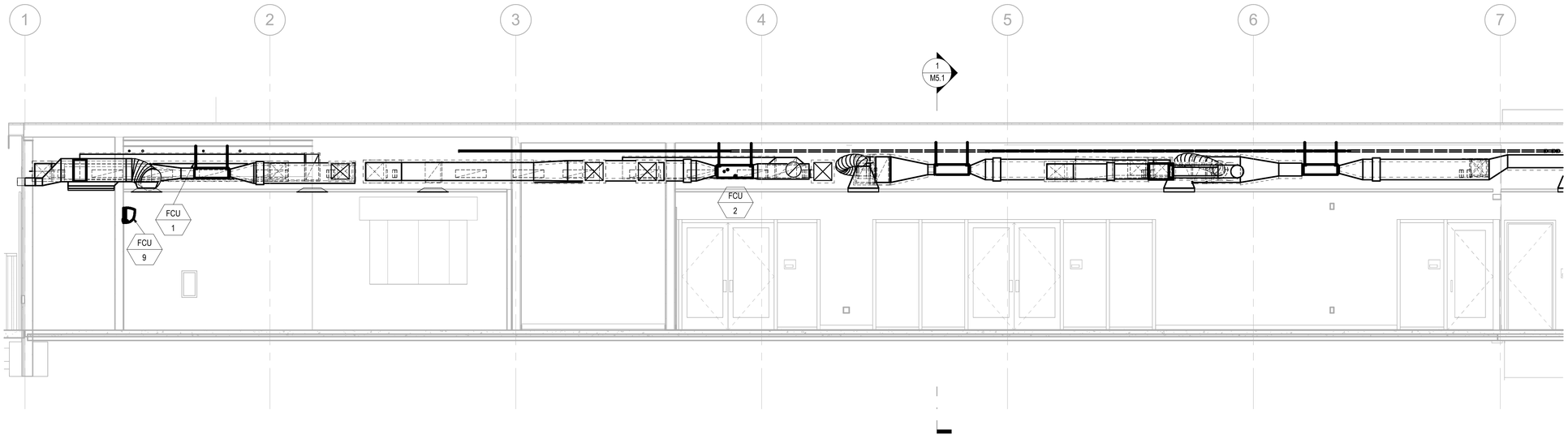
Issue Note: PERMIT RESUBMITTAL 03/07/25

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Scale:	1/8" = 1'-0"

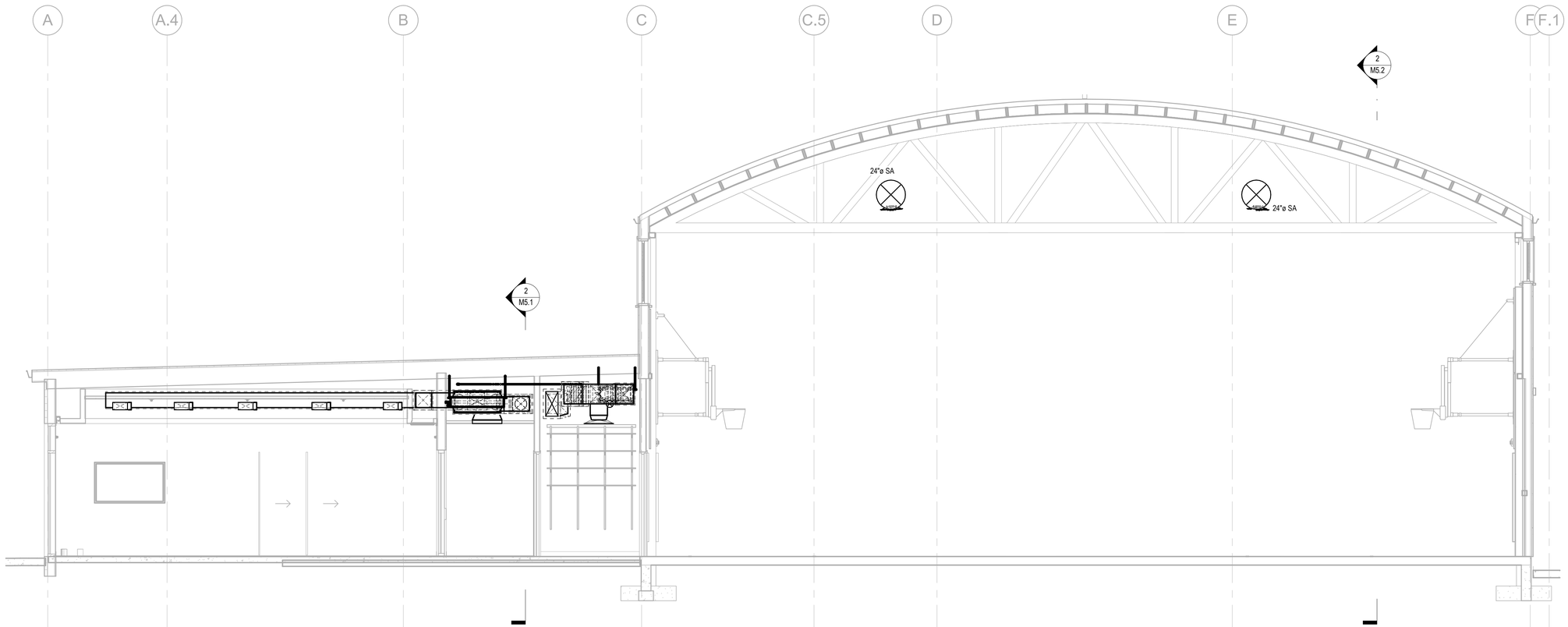
Sheet Title:
MECHANICAL - AIR TERMINAL PLAN

Sheet No.:
M4.1

3/4/2025 5:06:42 PM



2 LOUNGE AND GYM SECTION
1/4" = 1'-0"



1 HALLWAY SECTION
1/4" = 1'-0"

Project Title:

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PARKS, RECREATION & WATERFRONT DEPARTMENT
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No.	Description	Date
	PERMIT SET	12/04/24

Issue Note: PERMIT RESUBMITTAL 03/07/25

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Project ID:	-
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Plot Date:	-
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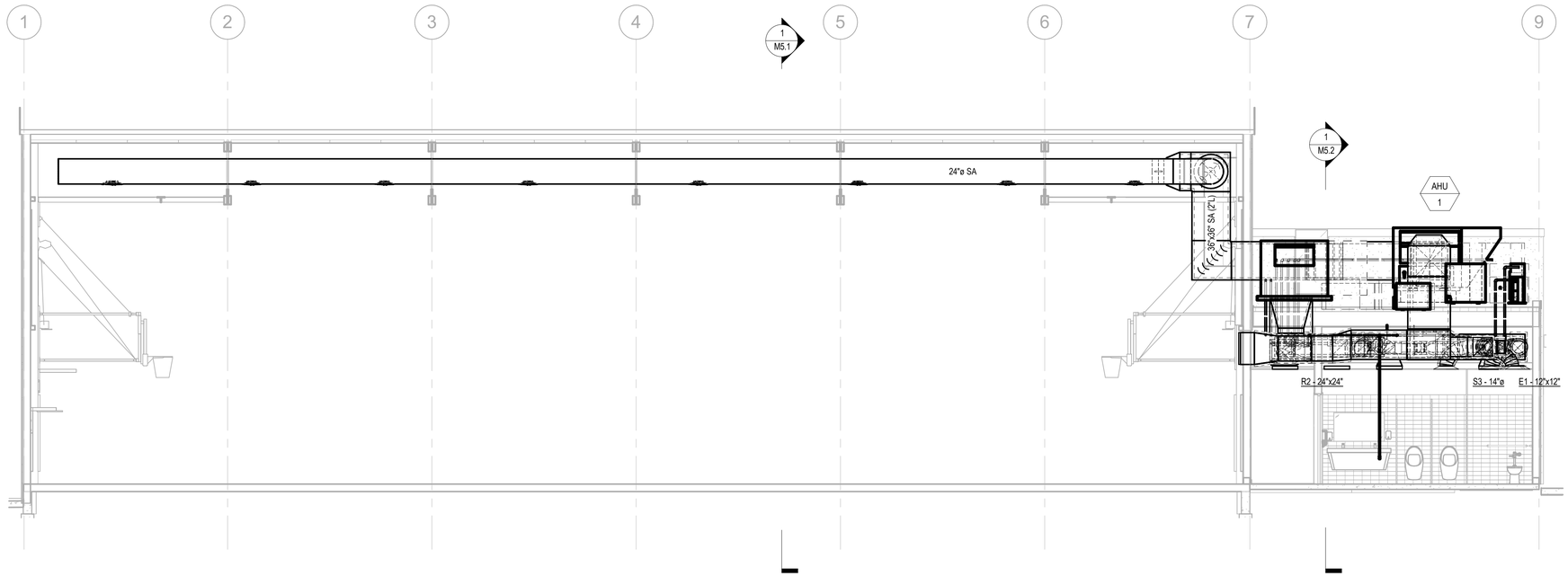
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MECHANICAL SECTIONS

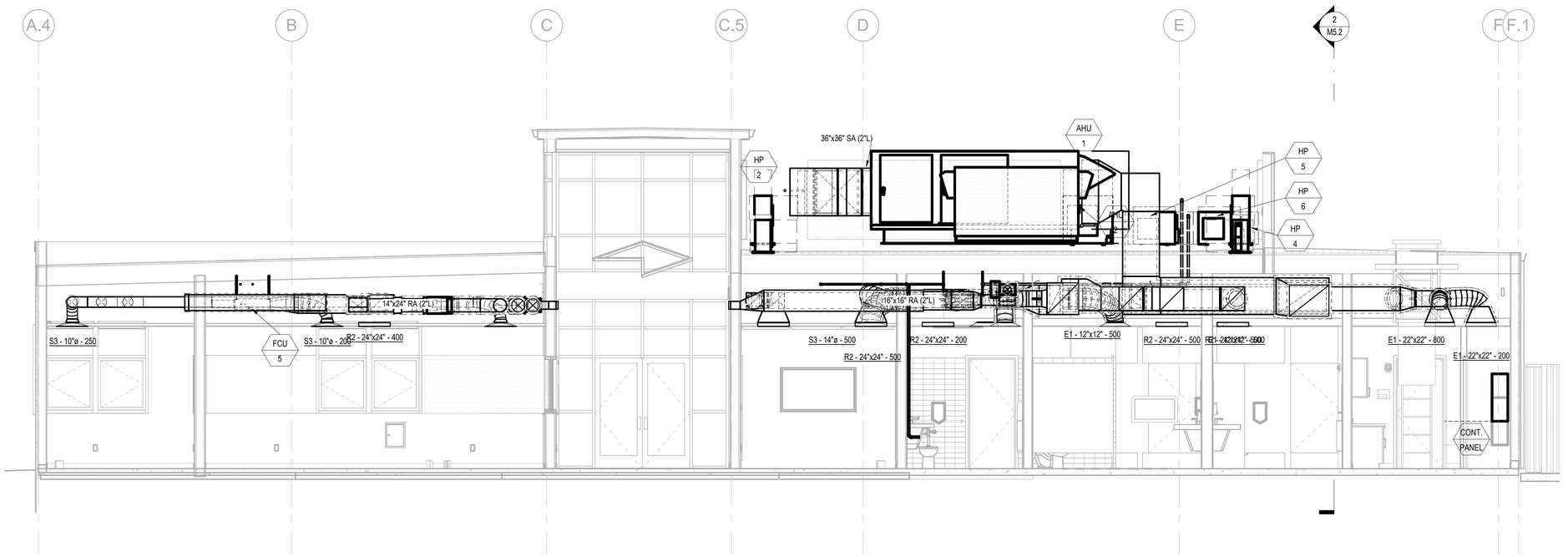
Sheet No.:

M5.1

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2 GYM AND MECHANICAL ROOF SECTION
3/16" = 1'-0"



1 MECHANICAL ROOF AND OFFICE SECTION
1/4" = 1'-0"

Project Title:

CITY OF BERKELEY
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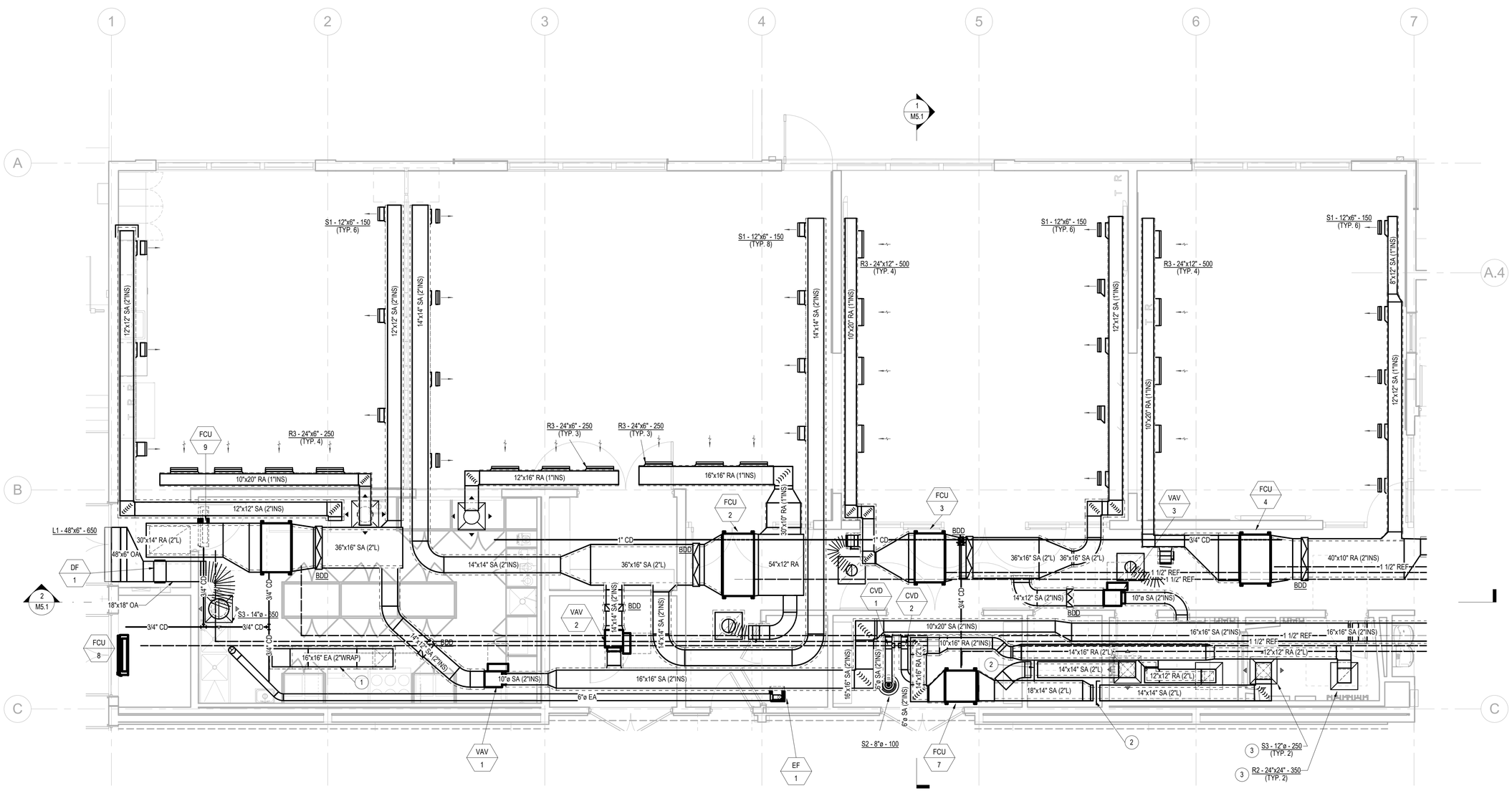
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Specification No.:	#25-11695-C
Project ID:	-
Drawn by:	Author
Checked by:	Checker
Plot Date:	-
Scale:	As indicated

Sheet Title:
MECHANICAL SECTIONS

Sheet No.:
M5.2

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1 M1 - FIRST FLOOR DUCTWORK - Callout 1
1/4" = 1'-0"

GENERAL NOTES

A. DRAWINGS ARE DIAGRAMMATIC IN NATURE. PLEASE REFER TO PROJECT DETAILS, CONTROL DRAWINGS, SPECIFICATIONS, EQUIPMENT SCHEDULES, AND MANUFACTURE SPECIFIC INSTALLATION MANUALS FOR ADDITIONAL REQUIREMENTS.
B. COORDINATE ROUTING WITH EXISTING CONDITIONS AND TRADES NOT SHOWN PRIOR TO FABRICATION OR INSTALLATION OF MECHANICAL EQUIPMENT, DUCTWORK, AND PIPING.

SHEET NOTES

1. WARP KITCHEN EXHAUST DUCT FROM FAN TO HOOD WITH 2-HOUR FIRE RATED WRAP. SLOPE DUCTWORK AT 1/4" PER FOOT TOWARDS HOOD. PROVIDE ACCESS A 12" X 12" ACCESSIBLE OPENING IN THE DUCTWORK AT EACH ELBOW AND AT THE MIDDLE OF EACH STRAIGHT SECTION (TWO).
2. LOCATE BALANCING VALVES SERVING MUSIC ROOM DIFFUSERS A MINIMUM OF 36 INCHES FROM THE DIFFUSER OUTLET.
3. PROVIDE HARD DUCT CONNECTIONS TO MUSIC ROOM SUPPLY DIFFUSER AND RETURN GRILLES. PROVIDE LINED DUCTWORK.

Project Title:

CITY OF BERKELEY
PARKS, RECREATION & WATERFRONT DEPARTMENT
MLK JR. YOUTH SERVICES CENTER / YAP SEISMIC RETROFIT AND RENOVATION
1730 Oregon Street, Berkeley, CA 94703
APN#: 053-1676-001-02

Design Firm:

SIEGEL & STRAIN Architects
6201 Doyle Street, Suite B
Emeryville, CA 94608
TEL 510 / 547-8092
info@siegelstrain.com

Consultant:

Stamp:

REGISTERED PROFESSIONAL ENGINEER
MATTHEW DENGRAVE
No. M36987
Exp. 9-30-26
STATE OF CALIFORNIA

No.	Description	Date
	PERMIT SET	12/04/24
1	PLAN CHECK #1	03/07/25

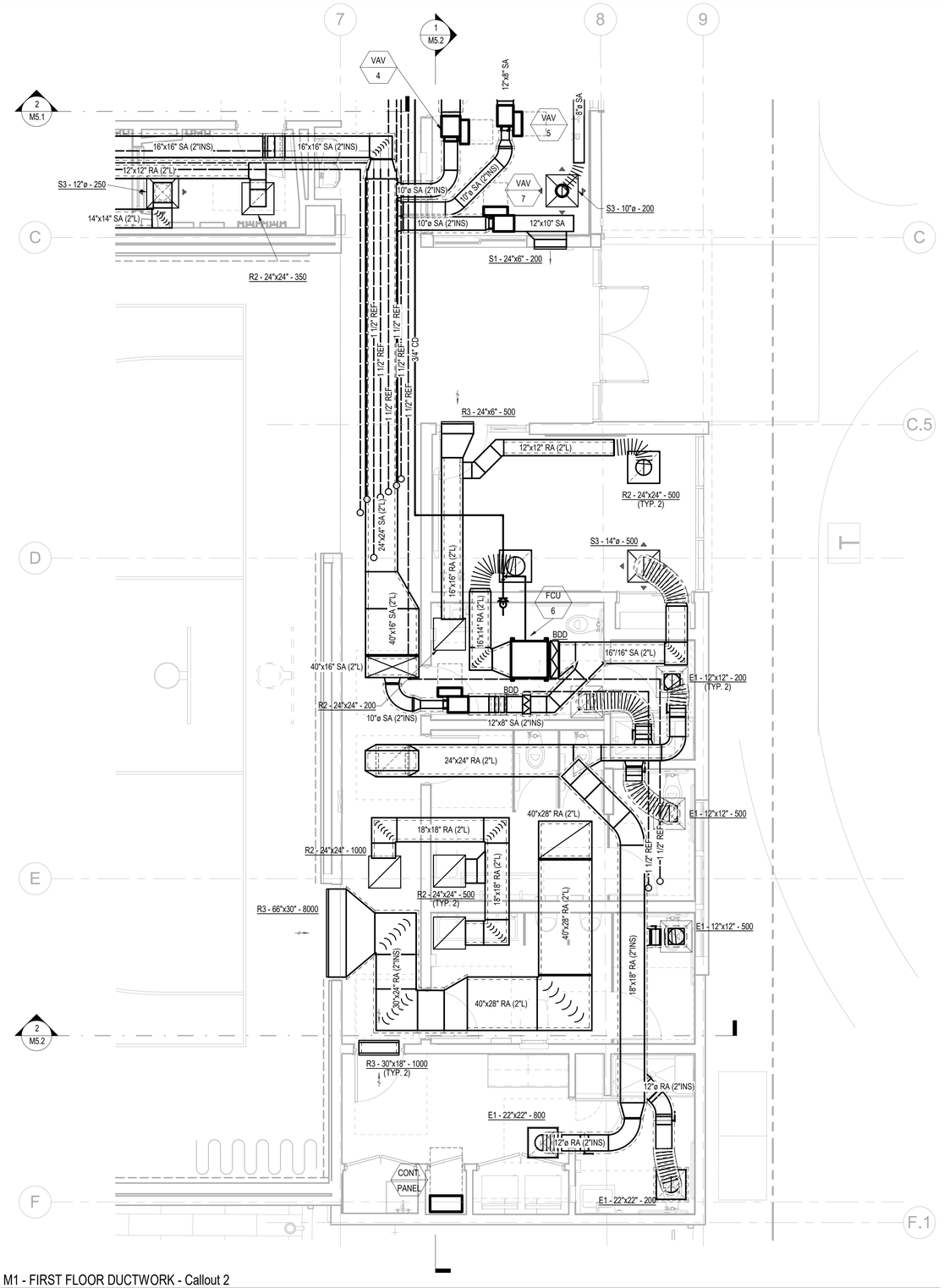
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City Plan No.:	8286
City File No.:	402-145
Specification No.:	#25-11695-C
Project ID:	-
Drawn by:	Author
Checked by:	Checker
Plot Date:	-
Scale:	1/4" = 1'-0"

Sheet Title:
MECHANICAL ENLARGED PLANS

Sheet No.:
M6.1

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1 M1 - FIRST FLOOR DUCTWORK - Callout 2
1/4" = 1'-0"

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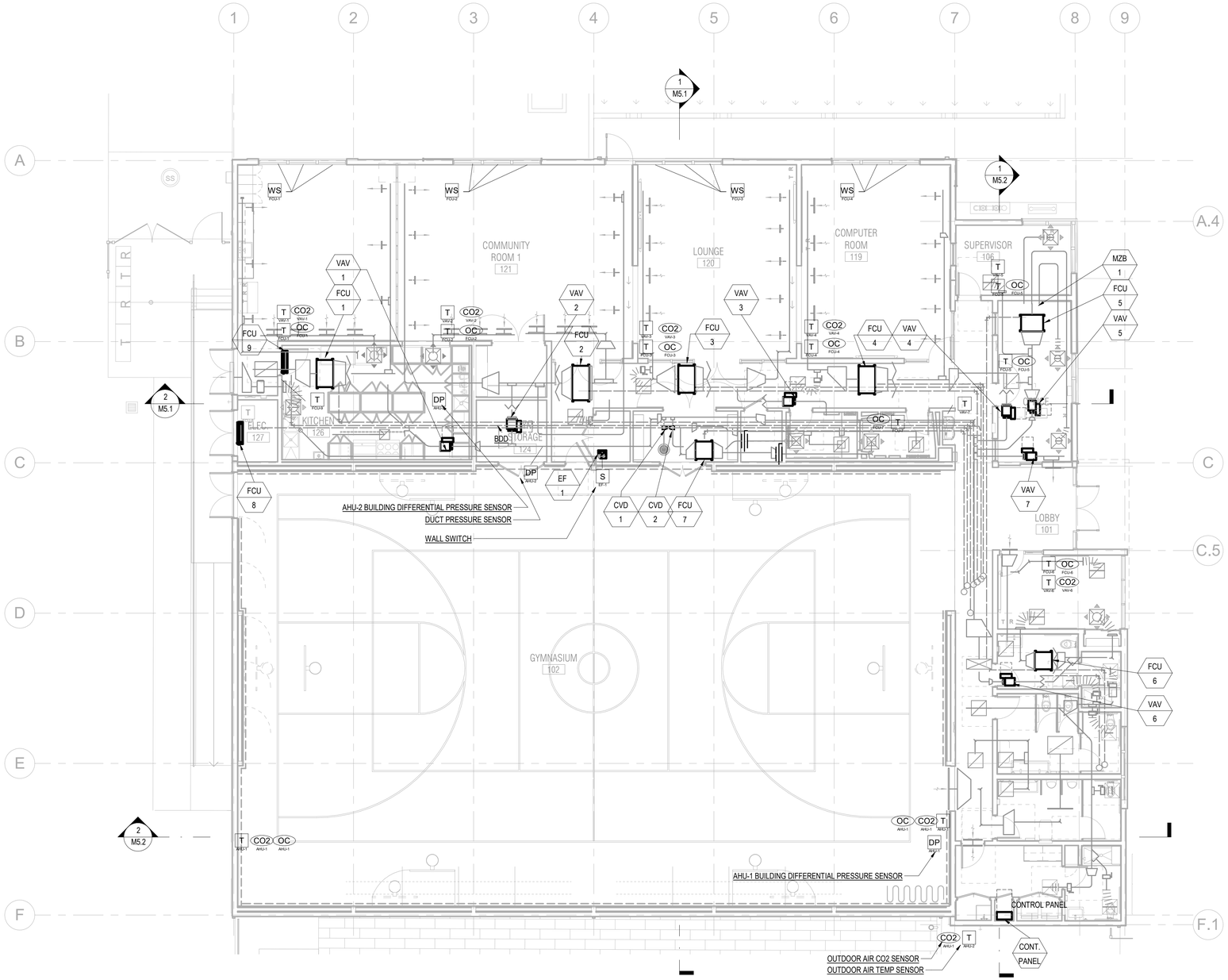
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Sheet Title:
MECHANICAL ENLARGED PLANS

Sheet No.:
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1 M1 - FIRST FLOOR CONTROLS
1/8" = 1'-0"

Project Title:

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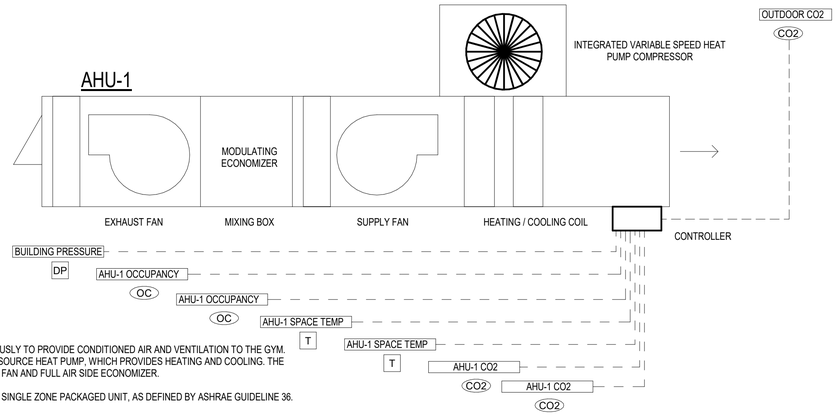
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CONTROLS - OVERALL

Sheet No.:

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SUMMARY:

THE GYM ROOFTOP UNIT (AHU-1) OPERATES CONTINUOUSLY TO PROVIDE CONDITIONED AIR AND VENTILATION TO THE GYM. THE AIR HANDLER IS PROVIDED WITH AN INTEGRAL AIR SOURCE HEAT PUMP, WHICH PROVIDES HEATING AND COOLING. THE UNIT ALSO FEATURES SUPPLY AND POWERED EXHAUST FAN AND FULL AIR SIDE ECONOMIZER.

THE AIR HANDLING UNIT IS INTENDED TO OPERATE AS A SINGLE ZONE PACKAGED UNIT, AS DEFINED BY ASHRAE GUIDELINE 36.

SCHEDULING:

ADJUSTABLE
24 HOURS A DAY
7 DAYS A WEEK

OCCUPIED:
SUN: NONE
MON-FRI: 7AM-8PM
SAT: 7AM-8PM

FAN SPEED:

SUPPLY FAN SPEED. THE SUPPLY FAN SHALL MODULATE FROM COOLING MAX / HEATING MAX TO VENTILATION MIN TO MAINTAIN TEMPERATURE SETPOINT.

EXHAUST FAN SPEED . THE EXHAUST FAN SHALL MODULATE TO MAINTAIN THE DIFFERENTIAL PRESSURE SETPOINT WITHIN THE GYM. VARY EXHAUST FAN SPEED BASED ON A 1 MINUTE ROLLING AVERAGE OF BUILDING DIFFERENTIAL PRESSURE.

SUPPLY AIR TEMPERATURE:

THE INTEGRAL HEAT PUMP SHALL MODULATE TO MAINTAIN SUPPLY TEMPERATURE SETPOINT. THE SUPPLY TEMPERATURE SETPOINT SHALL RESET BASED ON MODE OF OPERATION.

HEATING MODE. WHEN THE UNIT IS IN HEATING, THE SUPPLY AIR SETPOINT SHALL BE 85F.

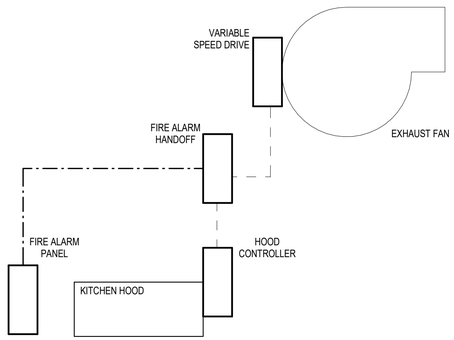
COOLING MODE. WHEN THE UNIT IS IN COOLING, THE SUPPLY AIR SETPOINT SHALL BE 55F.

DEADBAND. WHEN THE UNIT IS IN DEADBAND, THE SUPPLY AI SETPOINT SHALL BE 66F.

ECONOMIZER:
PROVIDE A MODULATING ECONOMIZER DAMPER. RESET OUTDOOR AIR FROM COOLING MIN TO FULL ECONOMIZER BASED ON OUTDOOR AIR TEMP.

VENTILATION:
AHU-1 PROVIDES VENTILATION TO THE GYM. THE OUTDOOR AIR VOLUME SUPPLIED TO THE GYM SHALL RESET BASED ON MEASURED CARBON DIOXIDE LEVELS WITHIN THE GYM. USING THE MAX OF TWO SENSOR READINGS, RESET VENTILATION MINIMUM TO MEET THE CARBON DIOXIDE LEVEL SETPOINT, 100 PPM ABOVE OUTDOOR AIR.

4 M07 CORRIDOR RTU CONTROL DIAGRAM
NTS



SUMMARY:

EXHAUST FANS SERVING THE KITCHEN HOOD SHALL OPERATE AS VARIABLE SPEED FAN. THE HOOD SHALL BE PROVIDED WITH A "SMART" MONITORING SYSTEM. THE EXHAUST FAN SHALL VARY BASED ON A SPEED COMMAND FROM THE HOODS MONITORING SYSTEM.

THE EXHAUST FAN SHALL BE PROVIDED WITH A FIRE-ALARM HANDOFF SWITCH, WHICH CHANGES CONTROL FROM THE HOODS MONITORING SYSTEM TO THE FIRE ALARM PANEL AUTOMATICALLY.

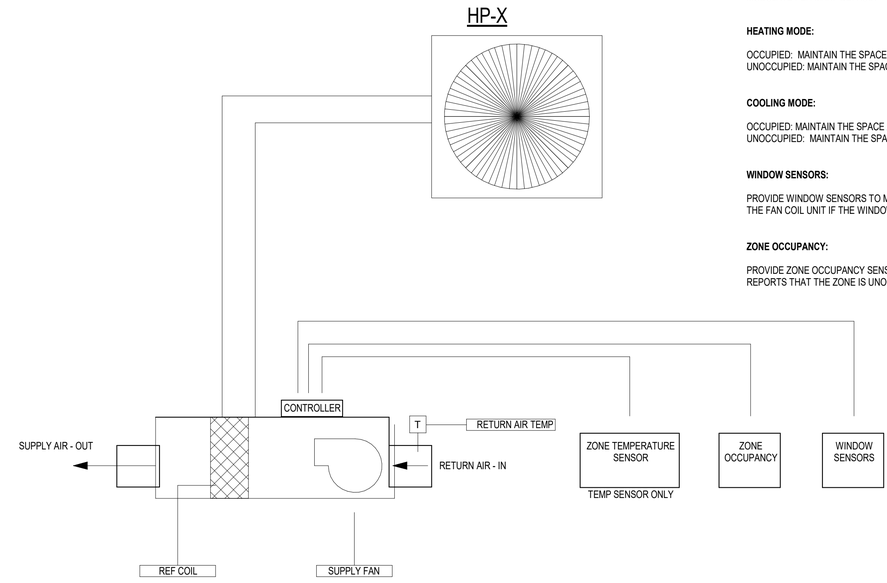
SCHEDULING:

24 HOURS A DAY
7 DAYS A WEEK

FAN SPEED:

VAGARY BASED ON SPEED COMMAND FROM HOOD MONITORING SYSTEM.

3 M07 TEMPERATURE DRIVEN EXHAUST CONTROL DETAIL
NTS



FCU

SUMMARY:

FAN COIL UNITS (FCU) MAINTAIN SPACE TEMPERATURE. DISABLE FAN COIL UNITS WHEN LOCAL WINDOW SENSOR INDICATES WINDOW HAS BEEN OPEN.

SCHEDULING:

OCCUPIED: 6AM TO 8PM, MONDAY TO FRIDAY
UNOCCUPIED: 8PM TO 6AM, MONDAY TO FRIDAY
SATURDAY TO SUNDAY

FAN SPEED:

MODULATE PER MANF DEFAULT

HEATING MODE:

OCCUPIED: MAINTAIN THE SPACE AIR TEMP ABOVE 70 DEGREES.
UNOCCUPIED: MAINTAIN THE SPACE AIR TEMP ABOVE 64 DEGREES.

COOLING MODE:

OCCUPIED: MAINTAIN THE SPACE AIR TEMP BELOW 76 DEGREES.
UNOCCUPIED: MAINTAIN THE SPACE AIR TEMP BELOW 80 DEGREES.

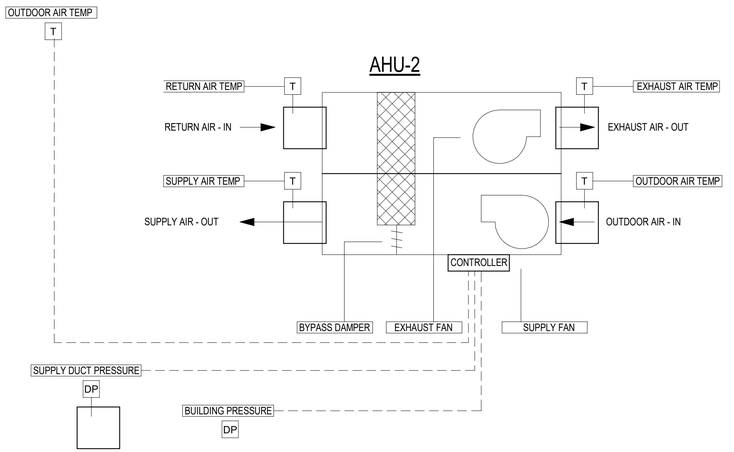
WINDOW SENSORS:

PROVIDE WINDOW SENSORS TO MONITOR THE USE OF WINDOWS WITHIN FAN COIL UNIT'S ZONE. DISABLE THE FAN COIL UNIT IF THE WINDOWS SENSORS INDICATE AN OPEN WINDOW.

ZONE OCCUPANCY:

PROVIDE ZONE OCCUPANCY SENSOR. SET ZONE MODE TO "UNOCCUPIED" WHEN OCCUPANCY SENSOR REPORTS THAT THE ZONE IS UNOCCUPIED.

1 M700 FCU CONTROL SEQUENCE
NTS



SUMMARY:

VENTILATOR (AHU-2) PROVIDES TEMPERED, FILTERED, VENTILATION AIR TO ALL REGULARLY OCCUPIED NON GYM ZONES AND ENSURE ADEQUATE MAKE-UP AIR IS AVAILABLE WHEN THE KITCHEN EXHAUST FAN OPERATES.

SCHEDULING:

OCCUPIED: 6AM TO 10PM, MONDAY TO SUNDAY
UNOCCUPIED: OTHER

FAN SPEED:

VARY SUPPLY FAN SPEED TO MAINTAIN A DUCT STATIC PRESSURE SETPOINT.

DETERMINE THE EXHAUST FAN SPEED THAT EQUALS THE SCHEDULED MINIMUM EXHAUST FLOW RATE. EXHAUST FAN SPEED SHALL NOT BE LESS THAN THE SCHEDULED EXHAUST FAN MINIMUM. VARY THE EXHAUST FAN FROM MINIMUM TO MAXIMUM TO MAINTAIN A BUILDING STATIC PRESSURE SETPOINT. VARY EXHAUST FAN SPEED BASED ON A 1 MINUTE ROLLING AVERAGE OF BUILDING DIFFERENTIAL PRESSURE.

BYPASS DAMPER CONTROL:

THE BYPASS DAMPER OPERATES AS A TWO POSITION DAMPER. WHEN CLOSED, 100 % OF OUTDOOR AIR PASSES THROUGH THE HEAT EXCHANGER. WHEN OPEN, 0 % OF OUTDOOR AIR PASSES THROUGH THE HEAT EXCHANGER

OPEN BYPASS WHEN OUTDOOR AIR IS GREATER THAN 60 DEGREES AND LESS THAN 86 DEGREES.

CLOSE BYPASS WHEN OUTDOOR AIR IS LESS THAN 60 DEGREES OR GREATER THAN 86 DEGREES.

2 M700 HVR CONTROL SEQUENCE
NTS

Project Title:

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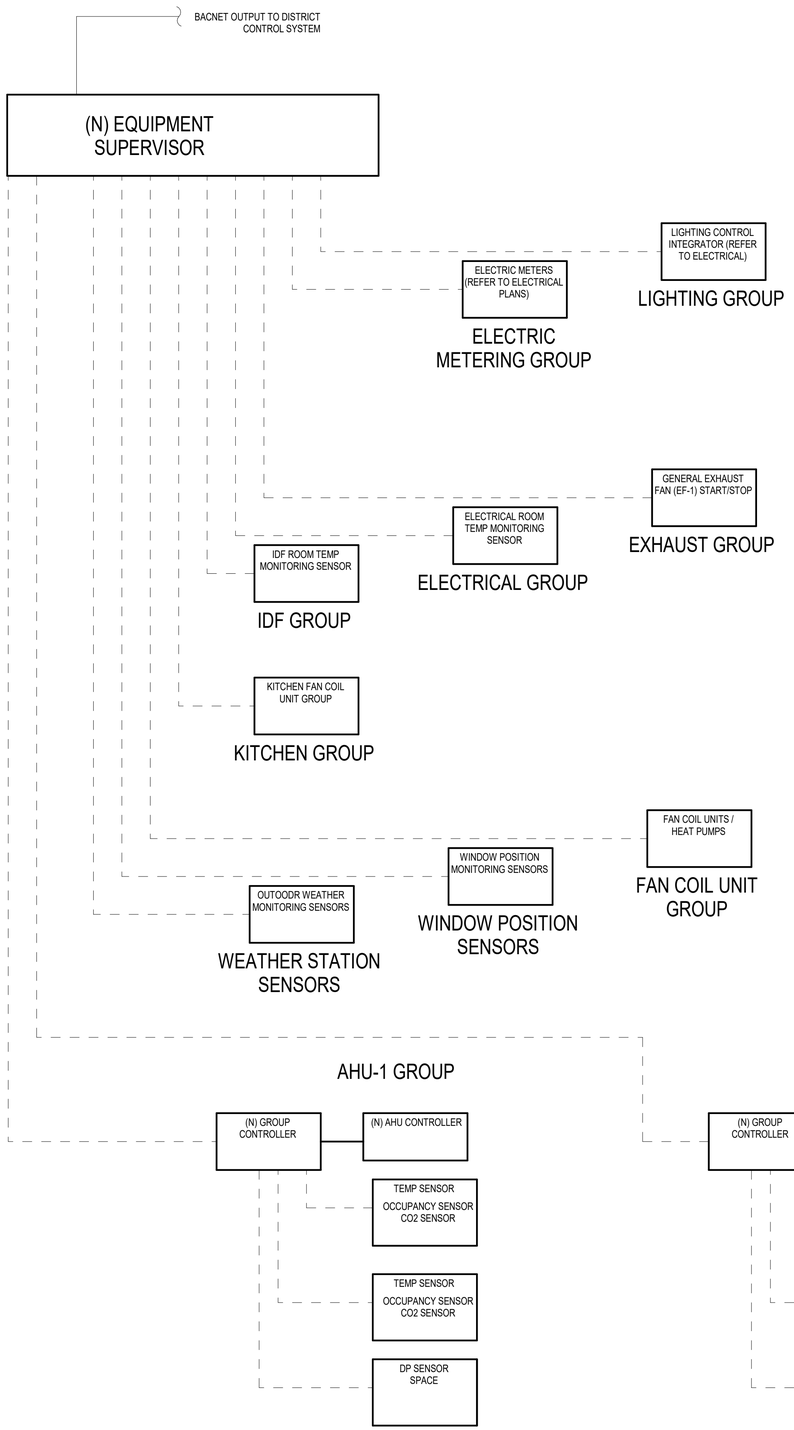
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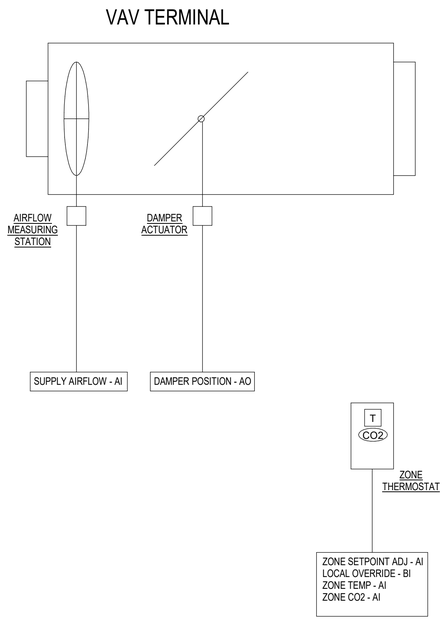
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CONTROLS - DETAILS

Sheet No.:
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2 M700 CONTROL SYSTEM DIAGRAM
NTS



1 M07 VAV BOX WITH HYDRONIC HEATING COIL DETAIL
NTS

SUMMARY:

VAV BOXES MODULATE TO MAINTAIN SPACE TEMPERATURE AND CO2 SETPOINTS.

SCHEDULING:

OCCUPIED: 6AM TO 10PM, MONDAY TO SUNDAY
UNOCCUPIED: OTHER

DAMPER MINIMUM CONTROL:

THE DAMPERS MINIMUM POSITION SHALL BE VARY BETWEEN THE SCHEDULED UNOCCUPIED MINIMUM VENTILATION RATE AND THE SCHEDULED MAX OCCUPIED VENTILATION RATE BASED ON MONITORED OCCUPANCY SENSORS AND ZONE CO2. WHEN CO2 RATES ARE LESS THAN 500 PPM, SET THE DAMPER MINIMUM AT THE SCHEDULE UNOCCUPIED MINIMUM. WHEN C02 RATES ARE GREATER THAN 2000 PPM, SET THE DAMPER MINIMUM AT THE SCHEDULE MAX OCCUPANCY VENTILATION RATE. VARY DAMPER MINIMUM LINEARLY BETWEEN.

DAMPER CONTROL:

VARY THE DAMPER FROM DAMPER MINIMUM TO 100% OPEN TO MAINTAIN ZONE TEMPERATURE SETPOINT. IN HEATING MODE, VAV ZONE TEMPERATURE SETPOINT SHALL BE 2 DEGREES BELOW THE ZONE'S FCU HEATING TEMP SETPOINT. IN COOLING MODE, VAV ZONE TEMPERATURE SETPOINT SHALL BE 2 DEGREES ABOVE THE ZONE'S FCU COOLING TEMP SETPOINT.

VAV COOLING SETPOINT: 78F
VAV HEATING SETPOINT: 66F

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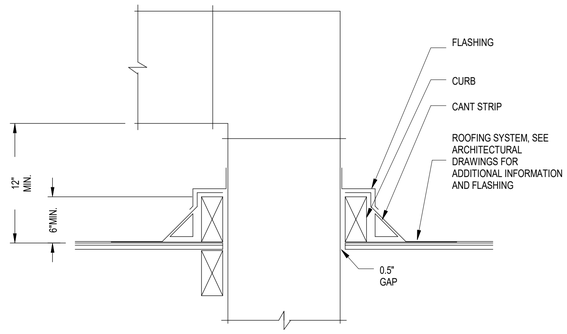
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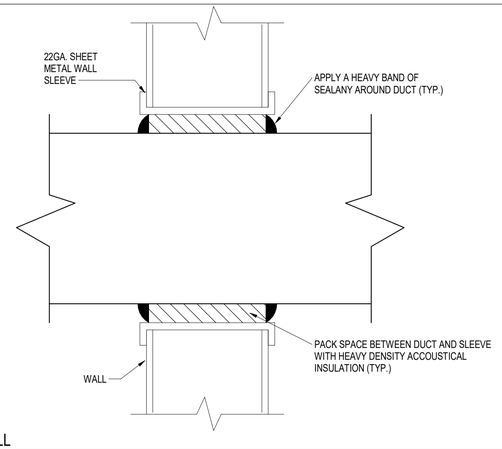
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CONTROLS - DETAILS

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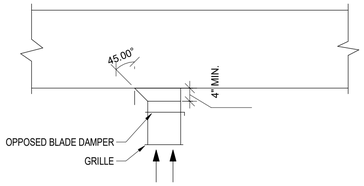
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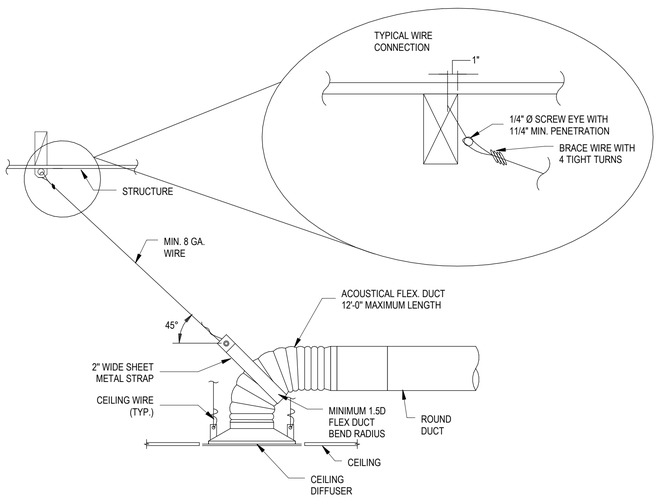
7 M08 DUCT THRU ROOF
NTS

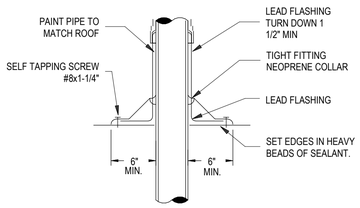


3 M08 DUCT THRU WALL
NTS

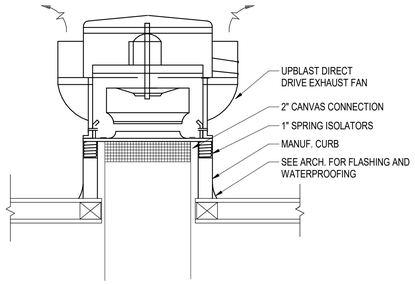


6 M08 DIFFUSER TAKEOFF
NTS

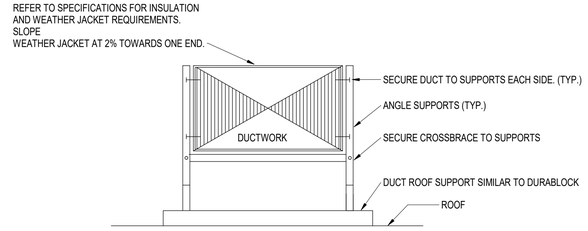




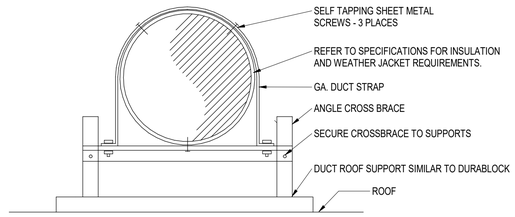
4 M08 PIPE THRU ROOF
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5 M08 MUSHROOM EXHAUST FAN DETAIL
NTS

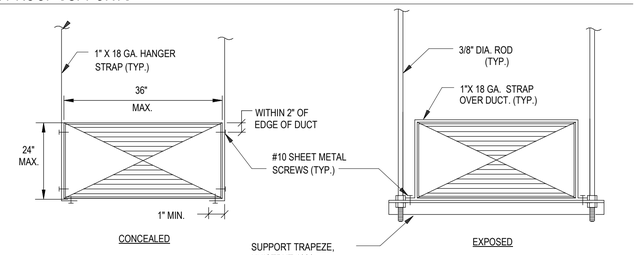


NOTES:
1. 8' MAX SPACING BETWEEN SUPPORTS. PER SECTION 5.210 OF THE SMACNA HVAC DUCT CONSTRUCTION STANDS METAL AND FLEXIBLE THIRD EDITION.
2. MAXIMUM 1'-10" HIGH 3"x3" STEEL TUBE POST IS FROM TOP OF CONCRETE.
3. ALL EXPOSED STEEL TO BE HOT-DIP GALVANIZED.



NOTES:
1. 8' MAX. SPACING BETWEEN SUPPORTS.
2. MAXIMUM 1'-10" HIGH 3"x3" STEEL TUBE POST IS FROM TOP OF CONCRETE.
3. ALL EXPOSED STEEL TO BE HOT-DIP GALVANIZED.

2 M08 DUCT ROOF SUPPORTS
NTS



NOTE:
1. ALL INTERIOR DUCT CROSS SECTIONS ARE 6 SQ FT OR SMALLER.

1 M08 DUCT HANGING DETAIL
NTS

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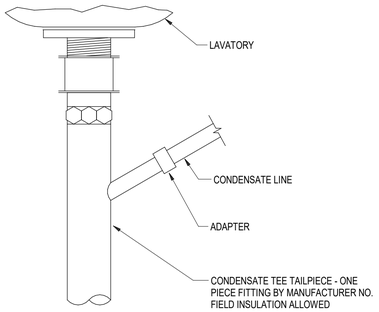
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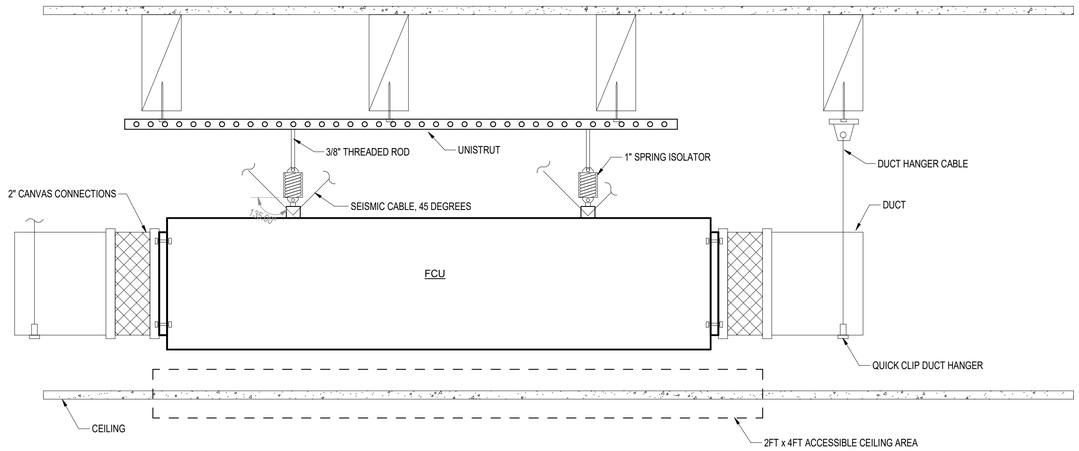
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DETAILS

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M8.1

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3 M08 CONDENSATE TO TAILPIECE DETAIL
NTS



2 M08 HRV MOUNTING DETAIL1
NTS

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CERTIFICATE OF COMPLIANCE		NRCC-MCH-E
Project Name: MLK JR YOUTH SERVICES CENTER / YAP	Report Page:	(Page 7 of 22)
	Date Prepared:	2025-03-04T16:41:44-05:00

H. FAN SYSTEMS & AIR ECONOMIZERS

This table is used to demonstrate compliance with prescriptive requirements found in 140.4(c), 140.4(e), 140.4(m), 170.2(c)3, and 170.2(c)4A for fan systems. Fan systems serving only process loads are exempt from these requirements and do not need to be included in Table H.

System Name	AHU-GYM	Quantity	1	Fan System Status	New	System Zoning	all other systems	Serving Dwelling Units	Not Serving Dwelling Units	Fan System Airflow (cfm)	8,000	Site Elevation	0	Economizer	Differential Enthalpy
01	02	03	04			05		06	07	08	09			10	11
Fan Name or Item Tag	Fan Type	Qty	Component			Airflow through Component (%)		Water Gauge (w.g)	Allowance: Component Allowance (watt/cfm)	Allowance: Fan Allowance (watt/cfm)[3]	Design: Design Electrical Input Power Method			Motor Nameplate Horsepower	Fan Electrical Input Power (kW)
SUPPLY FAN FOR AHU-GYM	Supply	1	Economizer Return Damper			100			0.04	0.53	Manufacturer provided				4.9
			Hydronic/DX cooling coil or heat pump coil			100			0.12						
			MERV 13-16 Filter upstream of thermal conditioning equipment			100			0.12						
			Sound Attenuation Section			100			0.03						
			Reheat Coil for Dehumidification			100			0.04						
			Electric heat			100			0.04						
			Low-turndown single-zone VAV fan systems			100			0.1						
EXHAUST FAN FOR AHU-GYM	Exhaust	1	Fully ducted, or Systems that maintain pressure differential between rooms			100			0.102	0.133	Manufacturer provided				3.9
			Sound Attenuation Section			100			0.031						
Supply Fan Base Allowance (watt/cfm)		0.256	Exhaust/Return/Relief/Transfer Fan Base Allowance(watt/cfm)					0.18	Fan System Allowance (kW)[3]		8.82			Fan System Electrical Input Power (kW)	8.8

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H. FAN SYSTEMS & AIR ECONOMIZERS

System Name	AHU-GEN	Quantity	1	Fan System Status	New	System Zoning	Multi-zone VAV systems	Serving Dwelling Units	Not Serving Dwelling Units	Fan System Airflow (cfm)	3,500	Site Elevation	0	Economizer	NA: DOAS with EAHR
01	02	03	04			05		06	07	08	09			10	11
Fan Name or Item Tag	Fan Type	Qty	Component			Airflow through Component (%)		Water Gauge (w.g)	Allowance: Component Allowance (watt/cfm)	Allowance: Fan Allowance (watt/cfm)[3]	Design: Design Electrical Input Power Method			Motor Nameplate Horsepower	Fan Electrical Input Power (kW)
SUPPLY FAN FOR AHU-GEN	Supply	1	Energy Recovery >= 0.80			100			0.281	0.281	Manufacturer provided				1.69
EXHAUST FAN FOR AHU-GEN	Exhaust	1	Energy Recovery >= 0.80			100			0.289	0.289	Manufacturer provided				1.61
Supply Fan Base Allowance (watt/cfm)		0.395	Exhaust/Return/Relief/Transfer Fan Base Allowance(watt/cfm)					0.22	Fan System Allowance (kW)[3]		4.15			Fan System Electrical Input Power (kW)	3.3

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H. FAN SYSTEMS & AIR ECONOMIZERS

System Name	KEF-1	Quantity	1	Fan System Status	New	System Zoning	all other systems	Serving Dwelling Units	Not Serving Dwelling Units	Fan System Airflow (cfm)	1,600	Site Elevation	0	Economizer	NA: <=33 kBtu/h cooling
01	02	03	04			05		06	07	08	09			10	11
Fan Name or Item Tag	Fan Type	Qty	Component			Airflow through Component (%)		Water Gauge (w.g)	Allowance: Component Allowance (watt/cfm)	Allowance: Fan Allowance (watt/cfm)[3]	Design: Design Electrical Input Power Method			Motor Nameplate Horsepower	Fan Electrical Input Power (kW)
KEF-1	Exhaust	1	Fully ducted, or Systems that maintain pressure differential between rooms			100			0.116	0.116	Manufacturer provided				0.51
Supply Fan Base Allowance (watt/cfm)			Exhaust/Return/Relief/Transfer Fan Base Allowance(watt/cfm)						Fan System Allowance (kW)[3]					Fan System Electrical Input Power (kW)	0.51

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F. HVAC SYSTEM SUMMARY (DRY & WET SYSTEMS)

Dry System Equipment Sizing (includes air conditioners, condensers, heat pumps, VRF, furnaces and unit heaters and DOAS systems)

01	02	03	04	05	06	07	08	09	10	11
Name or Item Tag	Equipment Category per Tables 110.2, 140.4(a)2 and 170.2(c)3aii	Equipment Type per Tables 110.2 and Title 20	Smallest Size Available[1] 140.4(a) and 170.2(c)1	Equipment Sizing per Mechanical Schedule (kBtu/h) 140.4(a&b), 170.2(c)1 & 170.2(c)2: Heating Output[2,3] Per Design (kBtu/h)	Heating Output[2,3] Rated (kBtu/h)	Heating Output[2,3] Supp. Heating Output (kBtu/h)	Cooling Output[2,3] Sensible Per Design (kBtu/h)	Cooling Output[2,3] Rated (kBtu/h)	Load Calculations[3,4] Total Heating Load (kBtu/h)	Load Calculations[3,4] Total Sensible Cooling Load (kBtu/h)
DUCTED HEAT PUMPS FOR COMMUNITY ROOMS - 24MBH	Unitary Heat Pumps (no elec. resistance)	Air-cooled, split (1phase)	Yes	27	27	0	24	24	24	24
WALL MOUNT DX FOR ELECT ROOM - 12MBH	Ceiling Mounted Computer Room AC	Air Cooled with free air discharge condenser, nonducted	Yes				12	12		12
DUCTED HEAT PUMPS FOR COMMUNITY ROOMS - 18MBH	Unitary Heat Pumps (no elec. resistance)	Air-cooled, split (1phase)	Yes	20.6	20.6	0	17.7	17.7	17.7	17.7
WALL MOUNT DX FOR KITCHEN - 18MBH	Unitary Heat Pumps (no elec. resistance)	Air-cooled, split (1phase)	Yes	20	20	0	18	18	18	18
DUCTED HEAT PUMPS FOR COMMUNITY ROOMS - 36MBH	Unitary Heat Pumps (no elec. resistance)	Air-cooled, split (1phase)	Yes	40	40	0	35	36	35	35

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F. HVAC SYSTEM SUMMARY (DRY & WET SYSTEMS)

Dry System Equipment Sizing (includes air conditioners, condensers, heat pumps, VRF, furnaces and unit heaters and DOAS systems)

01	02	03	04	05	06	07	08	09	10	11
AHU-GYM	Sm. Commercial AC	Air-cooled unitary AC/HP Pkg (3Ph)	Yes	254	254	0	335	335	254	335
AHU-GEN	Dedicated Outside Air System	DOAS							82	

[1] *FOOTNOTES: Equipment shall be the smallest size, within the available options of the desired equipment line, necessary to meet the design heating and cooling loads of the building per 140.4(a) and 170.2(c)1. Healthcare facilities are excepted.*
[2] *It is common practice to show rated output capacity on the equipment schedule. Sensible cooling output comes from specification sheet tables.*
[3] *If equipment is heating only, leave cooling output and load blank. If equipment is cooling only, leave heating output and load blank.*
[4] *Authority Having Jurisdiction may ask for load calculations used for compliance per 140.4(b) and 170.2(c).*

Dry System Equipment Efficiency (other than Package Terminal Air Conditioners (PTAC) and Package Terminal Heat Pumps (PTHP), DX-DOAS and Dual Fuel Heat Pumps)

01	02	03	04	05	06	07	08	09
Name or Item Tag	Size Category (Btu/h)	Heating Mode: Rating Condition (°F)	Heating Mode: Efficiency Unit	Heating Mode: Minimum Efficiency Required per Tables 110.2 / Title 20	Heating Mode: Design Efficiency	Cooling Mode: Efficiency Unit	Cooling Mode: Minimum Efficiency Required per Tables 110.2 / Title 20	Cooling Mode: Design Efficiency
DUCTED HEAT PUMPS FOR COMMUNITY ROOMS - 24MBH	<65,000		HSPF2	7.5	10.5	SEER2	14.3	16.5
WALL MOUNT DX FOR ELECT ROOM - 12MBH	<29,000					SCOP	2.08	3.8
DUCTED HEAT PUMPS FOR COMMUNITY ROOMS - 18MBH	<65,000		HSPF2	7.5	10.6	SEER2	14.3	16.7

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F. HVAC SYSTEM SUMMARY (DRY & WET SYSTEMS)

Dry System Equipment Efficiency (other than Package Terminal Air Conditioners (PTAC) and Package Terminal Heat Pumps (PTHP), DX-DOAS and Dual Fuel Heat Pumps)

01	02	03	04	05	06	07	08	09
Name or Item Tag	Size Category (Btu/h)	Heating Mode: Rating Condition (°F)	Heating Mode: Efficiency Unit	Heating Mode: Minimum Efficiency Required per Tables 110.2 / Title 20	Heating Mode: Design Efficiency	Cooling Mode: Efficiency Unit	Cooling Mode: Minimum Efficiency Required per Tables 110.2 / Title 20	Cooling Mode: Design Efficiency
WALL MOUNT DX FOR KITCHEN - 18MBH	<65,000		HSPF2	7.5	8.2	SEER2	14.3	17
DUCTED HEAT PUMPS FOR COMMUNITY ROOMS - 36MBH	<65,000		HSPF2	7.5	9.1	SEER2	14.3	17.5
AHU-GYM	<65,000		HSPF	8	9	SEER	14	16

G. PUMPS

This section does not apply to this project.

CERTIFICATE OF COMPLIANCE		NRCC-MCH-E
This document is used to demonstrate compliance for mechanical systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in 140.4, or 141.0(b)2 for alterations.		
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A. GENERAL INFORMATION

01	Project Location (city)	Berkeley, CA	04	Total Conditioned Floor Area	11305
02	Climate Zone	3	05	Total Unconditioned Floor Area	275
03	Occupancy Types Within Project:		06	# of Stories (Habitable Above Grade)	1

● Sports Arena

B. PROJECT SCOPE

This table includes mechanical systems or components that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in 140.4, 170.2(b) or 141.0(b)2 and 180.2(b)2 for alterations.

01	02	03
Air System(s)	Wet System Components	Dry System Components
☒ Heating Air System	☐ Water Economizer	☒ Air Economizer
☒ Cooling Air System	☐ Pumps	☐ Electric Resistance Heat
Mechanical Controls	☐ System Piping	☒ Fan Systems
☒ Mechanical Controls (existing to remain, altered or new)	☐ Cooling Towers	☒ Ductwork (existing to remain, altered or new)
	☐ Chillers	☒ Ventilation
	☐ Boilers	☒ Zonal Systems/ Terminal Boxes

CERTIFICATE OF COMPLIANCE		NRCC-MCH-E
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C. COMPLIANCE RESULTS

Table C will indicate if the project data input into the compliance document is compliant with mechanical requirements. This table is not editable by the user. If this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D., or the table indicated as not compliant for guidance.

01		02		03		04		05		06		07		08	09
System Summary 110.1, 110.2, 140.4, 170.2(c)	AND	Pumps 140.4(k), 170.2(c)4I	AND	Fans/ Economizers 140.4(c), 140.4(e), 170.2(c)	AND	System Controls 110.2, 120.2, 140.4(f), 170.2(c)	AND	Ventilation 120.1, 160.2	AND	Terminal Box Controls 140.4(d), 170.2(c)4B	AND	Distribution 120.3, 140.4(l), 160.2, 160.3	AND	Cooling Towers 110.2(e)2	Compliance Results
(See Table F)		(See Table G)		(See Table H)		(See Table I)		(See Table J)		(See Table K)		(See Table L)		(See Table M)	
Yes	AND		AND	Yes	AND	Yes	AND	Yes	AND	Yes	AND	Yes	AND		COMPLIES
Mandatory Measures Compliance (See Table Q for Details)															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.

F. HVAC SYSTEM SUMMARY (DRY & WET SYSTEMS)

Space Conditioning System Information

01	02	03	04	05	06
System Name	Quantity	System Serving	System Status	Space Type	Utilizing Recovered Heat
DUCTED HEAT PUMPS FOR COMMUNITY ROOMS - 24MBH	3	Single zone	New/ Addition	School or Classroom	☐
WALL MOUNT DX FOR ELECT RDOM - 12MBH	1	Single zone	New/ Addition	All Other Occupancies	☐

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F. HVAC SYSTEM SUMMARY (DRY & WET SYSTEMS)

Space Conditioning System Information

01	02	03	04	05	06
System Name	Quantity	System Serving	System Status	Space Type	Utilizing Recovered Heat
DUCTED HEAT PUMPS FOR COMMUNITY ROOMS - 18MBH	3	Single zone	New/ Addition	School or Classroom	☐
WALL MOUNT DX FOR KITCHEN - 18MBH	1	Single zone	New/ Addition	School or Classroom	☐
DUCTED HEAT PUMPS FOR COMMUNITY ROOMS - 36MBH	1	Single zone	New/ Addition	School or Classroom	☐
AHU-GYM	1	Single zone	New/ Addition	All Other Occupancies	☐
AHU-GEN	1	Multi-zone			☐

Project Title:

CITY OF BERKELEY
PARKS, RECREATION & WATERFRONT DEPARTMENT
MLK JR. YOUTH SERVICES CENTER / YAP
SEISMIC RETROFIT AND RENOVATION
1730 Oregon Street, Berkeley, CA 94703
APN#: 053-1676-001-02

Design Firm:

SIEGEL & STRAIN Architects
6201 Doyle Street, Suite B
Emeryville, CA 94608
TEL 510 / 547-8092
info@siegelstrain.com

Consultant:

Stamp:

REGISTERED PROFESSIONAL ENGINEER
MATTHEW DEMGHAN
No. M36987
Exp. 9-30-26
STATE OF CALIFORNIA

No.	Description	Date
	PERMIT SET	12/04/24

Issue Note: PERMIT RESUBMITTAL 03/07/25

City Plan No.:	8286
City File No.:	402-145
Specification No.:	#25-11695-C
Project ID:	-
Drawn by:	Author
Checked by:	Checker
Plot Date:	-
Scale:	

Sheet Title:

TITLE 24

Sheet No.:

M9.1

3/4/2025 5:06:56 PM

L. DISTRIBUTION (DUCTWORK and PIPING)

		SYSTEM FOR DUCTED FAN COIL UNITS	**Dwelling Units:** Total duct leakage of duct system shall not exceed 15% or duct system to outside shall not exceed 10% per RA3.1.4 required for systems?	---
			Duct leakage testing per CMC Section 603.9.2 required for these systems?	Yes
11	No	The scope of the project includes only duct systems serving healthcare facilities		
12	No	Duct system provides conditioned air to an occupiable space for a constant volume, single zone, space-conditioning system.		
13	No	The space conditioning system serves less than 5,000 ft^2 of conditioned floor area.		
14	Yes	The combined surface area of the ducts is more than 25% of the total surface area of the entire duct system:		
15	No	The scope of the project includes extending an existing duct system, which is constructed, insulated or sealed with asbestos.		
16	No	The scope of the project includes an existing duct system that is documented to have been previously sealed as confirmed through field verification and diagnostic testing in accordance with procedures in the Reference Nonresidential Appendix NA2.		
17	Yes	All Ductwork and plenums with pressure class ratings shall be constructed to Seal Class A		
18	No	All ductwork is an extension of an existing duct system		
19	No	Ductwork serving individual dwelling unit		
20		< 25 ft of new or replacement space conditioning ducts installed		
21	R-8	Duct Insulation R-value		
22	No	Ductwork Existing To Remain		
23	Yes	Duct System Connected To Altered Space Conditioning System		
The answers to the questions below apply to the following duct systems:		SUPPLY AIR DUCT	**NR/ Common Use:** Duct leakage testing shall not exceed 6% per NA7.5.3 required for these systems?	No

L. DISTRIBUTION (DUCTWORK and PIPING)

		SYSTEM FOR AHU-GYM	**Dwelling Units:** Total duct leakage of duct system shall not exceed 12% or duct system to outside shall not exceed 6% per RA3.1.4 required for systems?	---
			Duct leakage testing per CMC Section 603.9.2 required for these systems?	Yes
11	No	The scope of the project includes only duct systems serving healthcare facilities		
12	No	Duct system provides conditioned air to an occupiable space for a constant volume, single zone, space-conditioning system.		
13	No	The space conditioning system serves less than 5,000 ft^2 of conditioned floor area.		
14	No	The combined surface area of the ducts is more than 25% of the total surface area of the entire duct system:		
15	No	The scope of the project includes extending an existing duct system, which is constructed, insulated or sealed with asbestos.		
16	No	The scope of the project includes an existing duct system that is documented to have been previously sealed as confirmed through field verification and diagnostic testing in accordance with procedures in the Reference Nonresidential Appendix NA2.		
17	Exposed Ductwork located in occupied space	All Ductwork and plenums with pressure class ratings shall be constructed to Seal Class A		
18	No	All ductwork is an extension of an existing duct system		
19	No	Ductwork serving individual dwelling unit		
20		< 25 ft of new or replacement space conditioning ducts installed		
21	R-8	Duct Insulation R-value		
22	No	Ductwork Existing To Remain		
23	No	Duct System Connected To Altered Space Conditioning System		
The answers to the questions below apply to the following duct systems:		SUPPLY AIR DUCT	**NR/ Common Use:** Duct leakage testing shall not exceed 6% per NA7.5.3 required for these systems?	No

L. DISTRIBUTION (DUCTWORK and PIPING)

		SYSTEM FOR AHU-GYM	**Dwelling Units:** Total duct leakage of duct system shall not exceed 12% or duct system to outside shall not exceed 6% per RA3.1.4 required for systems?	---
			Duct leakage testing per CMC Section 603.9.2 required for these systems?	Yes
11	No	The scope of the project includes only duct systems serving healthcare facilities		
12	No	Duct system provides conditioned air to an occupiable space for a constant volume, single zone, space-conditioning system.		
13	Yes	The space conditioning system serves less than 5,000 ft^2 of conditioned floor area.		
14	No	The combined surface area of the ducts is more than 25% of the total surface area of the entire duct system:		
15	No	The scope of the project includes extending an existing duct system, which is constructed, insulated or sealed with asbestos.		
16	No	The scope of the project includes an existing duct system that is documented to have been previously sealed as confirmed through field verification and diagnostic testing in accordance with procedures in the Reference Nonresidential Appendix NA2.		
17	Yes	All Ductwork and plenums with pressure class ratings shall be constructed to Seal Class A		
18	No	All ductwork is an extension of an existing duct system		
19	No	Ductwork serving individual dwelling unit		
20		< 25 ft of new or replacement space conditioning ducts installed		
21	R-8	Duct Insulation R-value		
22	No	Ductwork Existing To Remain		
23	No	Duct System Connected To Altered Space Conditioning System		
The answers to the questions below apply to the following duct systems:		SUPPLY AIR DUCT	**NR/ Common Use:** Duct leakage testing shall not exceed 6% per NA7.5.3 required for these systems?	No

M. COOLING TOWERS

This section does not apply to this project.

J. VENTILATION AND INDOOR AIR QUALITY

This table is used to demonstrate compliance with mandatory ventilation requirements in 120.1 120.2(e)38 140.4(p) and 140.4(q) for all nonresidential and hotel/motel and d:\t24refnolink\}160.2, 160.3(a)3i), 170.2(a)4N, 170.2(a)4O for high-rise residential occupancies. For alterations, only ventilation systems being altered within the scope of the permit application need to be documented in this table. In lieu of this table, the required outdoor ventilation rates and airflows may be shown on the plans or the calculations can be presented in a spreadsheet.

01	☐	Check the box if the project is showing ventilation calculations on the plans, or attaching the calculations instead of completing this table.
02	☒	Check this box if the project included Nonresidential, Hotel/Motel Spaces or Multifamily Common Use Spaces
	☐	
03	☐	Check the box if the project is using natural ventilation in any nonresidential or hotel/motel spaces to meet required ventilation rates per 120.1(c)2.

Nonresidential and Hotel/ Motel Multifamily Common Use Ventilation Systems

04	05			06			07
System Name	AHU-GYM	System Design OA CFM Airflow[1]	6000	System Design Transfer Air CFM		0	Air Filtration per 120.1(c) 141.0(b)2 and 160.2(c)21[2]
							Provided
08	09	10	11	12	13	14	15	16

Space Name or Item Tag	Mechanical Ventilation Required per 120.1(c)3[3] & 160.2(c)3				Exh. Vent per 120.1(c)4 & 160.2(c)4		DCV or Sensor Controls per 120.1(d)3, 120.1(d)5, and 120.1(e)3[4] 160.2(c)5D 160.2(c)5E 160.2(c)5D	
	Occupancy Type[4]	Conditioned Floor Area (ft^2)	# of Shower heads/ toilets	# of people[5]	Required Min OA CFM	Required Min CFM	Provided per Design CFM	
GYM	Gym/ sports arena (play area)	5810			871.5	2905	8000	DCV: Provided per §120.1(d)4
								Occ Sensor: Provided per §120.1(d)5
17	Total System Required Min OA CFM				871.5	18	Ventilation for this System Complies?	Yes

04	05			06			07
System Name	AHU-GEN	System Design OA CFM Airflow[1]	3500	System Design Transfer Air CFM		0	Air Filtration per 120.1(c) 141.0(b)2 and 160.2(c)21[2]
							Provided
08	09	10	11	12	13	14	15	16

J. VENTILATION AND INDOOR AIR QUALITY

Space Name or Item Tag	Mechanical Ventilation Required per 120.1(c)3[3] & 160.2(c)3				Exh. Vent per 120.1(c)4 & 160.2(c)4		DCV or Sensor Controls per 120.1(d)3, 120.1(d)5, and 120.1(e)3[4] 160.2(c)5D 160.2(c)5E 160.2(c)5D	
	Occupancy Type[4]	Conditioned Floor Area (ft^2)	# of Shower heads/ toilets	# of people[5]	Required Min OA CFM	Required Min CFM	Provided per Design CFM	
GENERAL	Classroom (ages 5-18)	5450			817.5			DCV: Provided per §120.1(d)4
								Occ Sensor: Provided per §120.1(d)5
17	Total System Required Min OA CFM				817.5	18	Ventilation for this System Complies?	Yes

[1] FOOTNOTES: System CFM should include both mechanical and natural ventilation for the zone/system

[2] Air filtration requirements apply to the following three system types per 120.1(c)1A: space conditioning systems utilizing ducts to supply air to occupiable space; supply-only ventilation systems providing outside air to occupiable space; supply side of balanced ventilation systems including heat recovery and energy recovery ventilation systems providing outside air to occupiable space.

[3] Uniform Mechanical Code may have more stringent ventilation requirements; the most stringent code requirement takes precedence.

[4] See Standards Tables 120.1-A and 120.1-B.

[5] For lecture halls with fixed seating, the expected number of occupants shall be determined in accordance with the California Building Code.

[6] 120.2(e)3 requires systems serving rooms that are required by 130.1(c) to have lighting occupancy sensing controls to also have occupancy sensing zone controls for ventilation. Examples of spaces which require lighting occupancy sensors include offices 250ft^2 or smaller, multipurpose rooms less than 1,000 ft^2, classrooms, conference rooms, restrooms, aisles and open areas in warehouses, library book stack aisles, corridors, stairwells, parking garages, and loading and unloading zones, unless excepted by 130.1(c).

K. TERMINAL BOX CONTROLS

This table is used to demonstrate compliance with prescriptive zone control requirements in 140.4(d) & 170.2(c)4B.

01	02	03	04	05	06	07	08	09	10	11	12
		Design			Deadband Compliance			Reheated, Recooled, Mixed Air Compliance			
Zone/System/VAV Box Name or Item Tag	Zonal Control Strategy per 140.4(d)	Peak Primary Airflow CFM	Primary Air in Deadband CFM	Reheated Recooled Mixed Airflow CFM	Outside Air CFM	30% of Peak Primary Airflow CFM	Max Deadband Airflow CFM	50% of Peak Primary Airflow	1st Stage Modulates <=95 °F and Maintains DB Rate?	2nd Stage Modulates from DB Flow to Heating Max Flow?	Complies
VAV-1	No Reheat, Recool, Mixing										Yes
VAV-2	No Reheat, Recool, Mixing										Yes
VAV-3	No Reheat, Recool, Mixing										Yes
VAV-4	No Reheat, Recool, Mixing										Yes
VAV-5	No Reheat, Recool, Mixing										Yes
VAV-6	No Reheat, Recool, Mixing										Yes
VAV-7	No Reheat, Recool, Mixing										Yes
CAV-1	No Reheat, Recool, Mixing										Yes
CAV-2	No Reheat, Recool, Mixing										Yes

L. DISTRIBUTION (DUCTWORK and PIPING)

This table is used to show compliance with mandatory pipe insulation requirements found in 120.3 and mandatory requirements found in 120.4(g) for duct sealing.

01	☐	Insulation shall be protected from damage, including that due to sunlight, moisture, equipment maintenance, and wind. Insulation exposed to weather shall be installed with a cover suitable for outdoor service. Insulation covering chilled water piping and refrigerant suction piping located outside the conditioned space shall have a Class I or Class II vapor retarder. All penetrations and joints of which shall be sealed.

Duct Leakage Testing

The answers to the questions below apply to the following duct systems:	SUPPLY AIR DUCT	**NR/ Common Use:** Duct leakage testing shall not exceed 15% per NA7.5.3 required for these systems?	No

H. FAN SYSTEMS & AIR ECONOMIZERS

System Name	EF-1	Quantity	1	Fan System Status	New	System Zoning	all other systems	Serving Dwelling Units	Not Serving Dwelling Units	Fan System Airflow (cfm)	100	Site Elevation	0	Economizer	NA: <=33 kBtu/h cooling
	01	02	03	04		05		06	07	08		09		10	11

Fan Name or Item Tag	Fan Type	Qty	Component	Airflow through Component (%)	Water Gauge (w.g)	Allowance: Component Allowance (watt/cfm)	Allowance: Fan Allowance (watt/cfm)[1]	Design: Design Electrical Input Power Method	Design: Motor Nameplate Horsepower	Design: Fan Electrical Input Power (kW)
EF-1	Exhaust	1	Fully ducted, or Systems that maintain pressure differential between rooms	100		0.116	0.116	Manufacturer provided		0.04
Supply Fan Base Allowance (watt/cfm)			Exhaust/Return/Relief/Transfer Fan Base Allowance(watt/cfm)			Fan System Allowance (kW)[1]			Fan System Electrical Input Power (kW)	0.04

[1] FOOTNOTES: Fans serving spaces with design background noise goals below NC35

[2] Low-turndown single-zone VAV fan system must be capable of and configured to reduce airflow to 50 percent of design airflow and use no more than 30 percent of the design wattage at that airflow. No more than 10 percent of the design load served by the equipment shall have fixed loads.

[3] Fan system allowance includes fan system base allowance.

[4] Filter pressure loss can only be counted once per fan system.

[5] Complex Fan System means a fan system that combines a single cabinet fan system with other supply fans, exhaust fans, or both.

[6] Computer room economizers must meet requirements of 140.9(a) and will be documented on the NRCC-PRC-E document.

H. EXHAUST AIR HEAT RECOVERY 140.4(q), 170.2(c)4O

01	02	03	04	05	06	07	08	09	10	11

H. EXHAUST AIR HEAT RECOVERY 140.4(q), 170.2(c)4O

Fan System Name	Qty	Hours of Operation per Year	Design Supply Airflow Rate	Outdoor Airflow	% Outdoor Air at Full Design Airflow	Exemptions to Exhaust Air Heat Recovery Requirement per 140.4(q) & 170.2(c)4O	Exhaust Air Heat Recovery 140.4(q) & 170.2(c)4O	Type Of Heat Recovery Rating	Required Recovery Ratio	Energy Recovery Bypass
AHU-GYM	1	< 8,000	8,000	6,000	75	No Exemptions Apply	Not Required			
AHU-GEN	1	< 8,000	3,500	3,500	100	No Exemptions Apply	Not Required			
KEF-1	1	< 8,000	1,600	0		No Exemptions Apply	Not Required			
EF-1	1	< 8,000	100	0		No Exemptions Apply	Not Required			

Dedicated Outdoor Air System (DOAS)

01	02	03	04	05	06
System Name	Quantity	Delivered Directly to Space	DOAS Fan Control	Multi-Zone DOAS with Cooling 140.4(p)4 & 170.2(c)4N	Multifamily DOAS
AHU-GEN	1	Yes	>= 3 speeds	No heating or heat recovery to warm supply air > 60F when majority of zones require cooling	Not Serving Multifamily Common Use Space

Fan Energy Index (FEI)

01	02	03
Name or Item Tag	FEI Exception	FEI
SUPPLY FAN	Variable Air Volume Fan System	1.09
EXHAUST FAN	Variable Air Volume Fan System	0.95
SUPPLY FAN	Variable Air Volume Fan System	1
EXHAUST FAN	None Applies	1

Fan Energy Index (FEI)

KEF-1	None Applies	1
EF-1	None Applies	1

I. SYSTEM CONTROLS

This table is used to demonstrate compliance with mandatory controls in 110.2 and 120.2 and prescriptive controls in 140.4(f) and (n), 170.2(c)4D 170.2(c)4L or requirements in 141.0(b)2E 180.2(b)2 for altered space conditioning systems.

01	02	03	04	05	06	07	08	09	10
System Name	System Zoning	Conditioned Floor Area Being Served (ft^2)	Thermostats 110.2(b) & (c)[1], 120.2(a) 160.3(a)2A or 141.0(b)2E & 180.2(b)2	Shut-Off Controls 120.2(e) & 160.3(a)2O	Isolation Zone Controls 120.2(g) & 160.3(a)2F	Demand Response 110.12 120.2(b) & 160.3(a)2B	Supply Air Temp. Reset 140.4(f) & 170.2(c)4D	Window Interlocks per 140.4(n) & 170.2(c)4D	Direct Digital Control (DDC) per 120.2
DUCTED HEAT PUMPS FOR COMMUNITY ROOMS - 24MBH	Single zone	<= 25,000 ft^2	Setback + DR Tstat per 110.12	Occ. Sensor	Occ. Sensor	DR Tstat per 110.12	NA: Single Zone	Provided	Provided
WALL MOUNT DX UNITS	Single zone	<= 25,000 ft^2	Setback	NA: 7 day per 120.2(e)1	NA: Continuous Heat/Cool	NA: PTAC, PTHP, Rm AC, HP	NA: Single Zone	NA: No operable windows	NA: Single Zone
AHU-GEN	Multi-zone w/ DDC to zone	<= 25,000 ft^2	EMCS	EMCS	EMCS	EMCS	Included	Provided	Provided
AHU-GYM	Single zone	<= 25,000 ft^2	Setback + DR Tstat per 110.12	Occ. Sensor	Occ. Sensor	DR Tstat per 110.12	NA: Single Zone	NA: No operable windows	NA: Single Zone

[1] FOOTNOTES: Gravity gas wall heaters, gravity floor heaters, gravity room heaters, non-central electric heaters, fireplaces or decorative gas appliances, wood stoves are not required to have setback thermostats.

Project Title:

CITY OF BERKELEY
PARKS, RECREATION & WATERFRONT DEPARTMENT
MLK JR. YOUTH SERVICES CENTER / YAP SEISMIC RETROFIT AND RENOVATION
1730 Oregon Street, Berkeley, CA 94703
APN#: 053-1676-001-02

Design Firm:

SIEGEL & STRAIN Architects
6201 Doyle Street, Suite B
Emeryville, CA 94608
TEL 510 / 547-8092
info@siegelstrain.com

Consultant:

Stamp:

REGISTERED PROFESSIONAL ENGINEER
MATTHEW DENGHAM
No. M36987
Exp. 9-30-26
STATE OF CALIFORNIA

No.	Description	Date
	PERMIT SET	12/04/24

Issue Note: PERMIT RESUBMITTAL 03/07/25

City Plan No.: 8286
City File No.: 402-145
Specification No.: #25-11695-C
Project ID: -
Drawn by: Author
Checked by: Checker
Plot Date: -
Scale:

Sheet Title:
TITLE 24

Sheet No.:
M9.2

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STATE OF CALIFORNIA
Mechanical Systems
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-MCH-E
Project Name: MLK JR YOUTH SERVICES CENTER / YAP	**Report Page:**	**(Page 22 of 22)**
Project Address:	**Date Prepared:**	2025-03-04T16:41:44-05:00

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT	
I certify that this Certificate of Compliance documentation is accurate and complete.	
Documentation Author Name: Stefan Gracik	Documentation Author Signature: Stefan Gracik
Company: Alter Consulting Engineers	Signature Date: 03/04/2025
Address: 66 Franklin St Ste 300	CEA/ HERS Certification Identification (if applicable):
City/State/Zip: Oakland, CA 94607	Phone: 510-474-0379

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 provides to the building owner at occupancy.

Responsible Designer Name: Matthew Dehghani	Responsible Designer Signature:
Company: Alter Consulting Engineers	Date Signed: 03/04/2025
Address: 66 Franklin St Ste 300	License: 36987
City/State/Zip: Oakland, CA 94607	Phone: 510-474-0379

STATE OF CALIFORNIA
Envelope Component Approach
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-ENV-E
This document is used to demonstrate compliance with mandatory requirements in 110.8(g) and 120.7(b)/ 160.1 for newly constructed nonresidential, hotel/ motel, multifamily and mixed-use buildings, and 141.0(b)1I/ 180.2 for alterations, related to roof, wall and floor assemblies. It is also used to demonstrate compliance with prescriptive requirements in 140.3/ 170.2 for newly constructed buildings, and 141.0/ 180.1/ 180.2 for additions and alterations, related to roof, wall, floor, door, fenestration and daylighting requirements.		
Project Name: MLK JR YOUTH SERVICES CENTER / YAP	**Report Page:**	**(Page 1 of 10)**
Project Address:	**Date Prepared:**	2025-03-05T14:48:29-05:00

A. GENERAL INFORMATION					
01	Project Location (city)	Berkeley, CA	05	# of Stories (Habitable Above Grade)	1
02	Zipcode	94703	06	Total Conditioned Floor Area (ft²)	11305
03	Climate Zone	3	07	Total Unconditioned Floor Area (ft²)	275
04	Occupancy Types Within Project: (select all that apply): If one occupancy constitutes >= 80% of the conditioned floor area, the entire building envelope may be designed to comply with the provisions of that occupancy per 100.0(f).		08	☐ Project includes unconditioned enclosed space(s) > 5,000 ft² under a roof with a ceiling height of at least 15 ft.[1]	
● Gymnasium					
[1] FOOTNOTE: Enclosed spaces > 5,000 ft² directly under roof with ceiling height > 15 ft in climate zones 2 through 15 are required to meet the minimum daylighting requirements defined in 140.3(c)/ 170.2(b). Compliance with 140.3(c)/ 170.2(b) is documented in Table L. This is the only prescriptive requirement which applies to unconditioned spaces.					

B. PROJECT SCOPE

This table specifies project envelope components within the permit application demonstrating compliance using the prescriptive paths outlined in 140.3/ 170.2 and 141.0(a)1/ 180.1 and 141.0(b)1 and 2/ 180.2 for additions and alterations.

My project consists of (check all that apply)		Component Types					
01		02					
☐	New Construction or Newly Conditioned Space	☐	Roof	☐	Walls	☐	Exterior Opaque Doors
☐	☐ One or more enclosed spaces > 5,000 ft² directly under roof with ceiling height > 15ft			☐	Floors	☐	Fenestration/ Glazed Doors[1]
☒	Addition of conditioned space	☐	Roof	☐	Walls	☐	Exterior Opaque Doors
	☐ One or more enclosed spaces > 5,000 ft² directly under roof with ceiling height > 15ft						
	☐ Addition is <=700 ft²			☐	Floors	☐	Fenestration/ Glazed Doors[1]
	☐ Addition is >700 ft²						
☒	Alteration of conditioned space	☒	Roof Assembly	☒	Walls		
	☒ One or more enclosed spaces > 5,000 ft² directly under roof with ceiling height > 15ft and lighting system installed for the first time	☐	Roofing Material[2]	☐	Floors	☒	Fenestration

STATE OF CALIFORNIA
Mechanical Systems
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-MCH-E
Project Name: MLK JR YOUTH SERVICES CENTER / YAP	**Report Page:**	**(Page 19 of 22)**
	Date Prepared:	2025-03-04T16:41:44-05:00

N. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in Table E Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at https://www.energy.ca.gov/programs-and-topics/programs/building-energy-efficiency-standards/2022-building-energy-efficiency-4

Form/Title
NRCI-MCH-01-E - Must be submitted for all buildings

STATE OF CALIFORNIA
Mechanical Systems
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-MCH-E
Project Name: MLK JR YOUTH SERVICES CENTER / YAP	**Report Page:**	**(Page 20 of 22)**
	Date Prepared:	2025-03-04T16:41:44-05:00

O. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in Table E Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at https://www.energy.ca.gov/programs-and-topics/programs/building-energy-efficiency-standards/2022-building-energy-efficiency-4

Form/Title	Systems/Spaces To Be Field Verified
NRCA-MCH-02-A - Outdoor Air must be submitted for all newly installed HVAC units. Note: MCH-02-A can be performed in conjunction with MCH-07-A Supply Fan VFD Acceptance (if applicable) since testing activities overlap.	AHU-GYM; AHU-GEN
NRCA-MCH-03-A - Constant Volume Single Zone HVAC NOTE: This form does not automatically move to "Yes'. If Constant Volume Single Zone HVAC Systems are included in the scope, permit applicant should move this form to "Yes".	DUCTED HEAT PUMPS FOR COMMUNITY ROOMS - 24MBH; WALL MOUNT DX UNITS; AHU-GYM
NRCA-MCH-05-A - Air Economizer Controls	AHU-GYM
NRCA-MCH-06-A Demand Control Ventilation Systems must be submitted for all systems required to employ demand controlled ventilation (refer to 120.1(c)3) can vary outside ventilation flow rates based on maintaining interior carbon dioxide (CO_2) concentration setpoints.	GYM; GENERAL
NRCA-MCH-07-A Supply Fan Variable Flow Controls	SUPPLY FAN FOR AHU-GEN
NRCA-MCH-11-A Automatic Demand Shed Controls	AHU-GEN
NRCA-MCH-13-A Automatic FDD for Air Handling Units and Zone Terminal Units Acceptance	AHU-GYM
NRCA-MCH-16-A Supply Air Temperature Reset Controls	AHU-GEN
NRCA-MCH-18-A Energy Management Control Systems	AHU-GEN
NRCA-MCH-19-A Occupancy Sensor Controls	DUCTED HEAT PUMPS FOR COMMUNITY ROOMS - 24MBH; AHU-GYM; GYM; GENERAL

P. DECLARATION OF REQUIRED CERTIFICATES OF VERIFICATION

There are no NRCV forms required for this project.

STATE OF CALIFORNIA
Mechanical Systems
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-MCH-E
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Q. MANDATORY MEASURES DOCUMENTATION LOCATION

This table is used to indicate where mandatory measures are documented in the plan set or construction documentation.

01		02
Compliance with Mandatory Measures documented through MCH Mandatory Measures Note Block	No	Plan sheet or construction document location
03		04
Mandatory Measure		**Plan sheet or construction document location**
Heating Equipment Efficiency per 110.1		M0.2
Cooling Equipment Efficiency per 110.1		M0.2
Furnace Standby Loss Control per 110.2(d)		N/A
Duct Insulation per 120.4		M0.1
Heat Pump with Supplemental electric Resistance Heater Controls per 110.2(b)		NA
The air duct and plenum system is designed per 120.4(a)-(f)		M0.1
Kitchen range hoods shall be rated for sound in accordance with Section 7.2 of ASHRAE 62.2		M0.1

Project Title:

CITY OF BERKELEY
PARKS, RECREATION & WATERFRONT DEPARTMENT
MLK JR. YOUTH SERVICES CENTER / YAP
SEISMIC RETROFIT AND RENOVATION
1730 Oregon Street, Berkeley, CA 94703
APN#: 053-1676-001-02

Design Firm:

SIEGEL & STRAIN Architects
6201 Doyle Street, Suite B
Emeryville, CA 94608
TEL 510 / 547-8092
info@siegelstrain.com

Consultant:

Stamp:

REGISTERED PROFESSIONAL ENGINEER
MATTHEW DEHGHANI
No. M36987
Exp. 9-30-26
STATE OF CALIFORNIA

No.	Description	Date
	PERMIT SET	12/04/24

Issue Note: PERMIT RESUBMITTAL 03/07/25

City Plan No.:	8286
City File No.:	402-145
Specification No.:	#25-11695-C
Project ID:	-
Drawn by:	Author
Checked by:	Checker
Plot Date:	-
Scale:	

Sheet Title:

TITLE 24

Sheet No.:

M9.3

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STATE OF CALIFORNIA
Envelope Component Approach
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-ENV-E
Project Name: MLK JR YOUTH SERVICES CENTER / YAP	**Report Page:**	**(Page 8 of 10)**
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L. DAYLIGHT IN LARGE ENCLOSED SPACES

This table demonstrates compliance with prescriptive daylight zone requirements in 140.3(c)/ 170.2(b) for new construction, additions, or alterations which install a new lighting system within climate zones 2-15. Enclosed space greater than 5,000 ft2 and under a roof with at least a 15 ft ceiling height must be included in the table.

01	**Plan Sheet Showing Daylit Zones:**	NA									
02	03	04	05	06	07	08	09	10		11	
Space Name	Compliance Method	Total Area of Space (ft^2)	Skylit Daylit Zone Area per Design (ft^2)	Primary Sidelit Daylit Zone Area per Design[1] (ft^2)	Compliance with 140.3(c)1/ 170.2(b)		Total Skylight Area per Design[2] (ft^2)	Compliance with 140.3(c)4/ 170.2(b)	OR	Alternate Compliance with 140.3(c)4/ 170.2(b)	
					Required Minimum Daylit Area (ft^2)	Daylit Area per Design (ft^2)		Skylight Area to Skylit Daylit Zone Area Ratio[3] (%)		Skylight Weighted Average VT[2]	Skylight Area x VT to Skylit Daylit Zone Area Ratio[4] (%)
102 - GYMNASIUM	NA: Auditorium										

[1] *FOOTNOTES: Any area which falls within the Skylit Daylit Zone may not be double counted for the Primary Sidelit Daylit Zone.*
[2] *May be calculated by Table K Fenestration Schedule.*
[3] *Must be at least 3% to comply with 140.3(c)4/ 170.2(b) .*
[4] *Must be at least 1.5% to comply with 140.3(c)4/ 170.2(b) .*

M. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Selections have been made based on information provided in this document. If any selection have been changed by the 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-ENV-01-E - Must be submitted for all buildings

STATE OF CALIFORNIA
Envelope Component Approach
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-ENV-E
Project Name: MLK JR YOUTH SERVICES CENTER / YAP	**Report Page:**	**(Page 9 of 10)**
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N. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, form user must provide an explanation in Table E Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at https://www.energy.ca.gov/programs-and-topics/programs/building-energy-efficiency-standards/2022-building-energy-efficiency-4. Individuals who perform the field testing and verification work, and provide the information required for completion of the fenestration Certificate of Acceptance documentation are not required to be licensed professionals. However, the person who signs the Certificate of Acceptance document to certify compliance with the acceptance requirements shall be licensed as specified in Standards Section 10-103(a)4 and NA7.3.1

Form/Title	Systems/Spaces To Be Field Verified
NRCA-ENV-02-F must be submitted for all new, added or altered site built fenestration.	OPERABLE WINDOWS; FIXED WINDOWS; New Storefront System; Glazed Doors

O. DECLARATION OF REQUIRED CERTIFICATES OF VERIFICATION

There are no forms required for this project.

STATE OF CALIFORNIA
Envelope Component Approach
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-ENV-E
Project Name: MLK JR YOUTH SERVICES CENTER / YAP	**Report Page:**	**(Page 10 of 10)**
Project Address:	**Date Prepared:**	2025-03-05T14:48:29-05:00

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

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

Documentation Author Name:	Stefan Gracik	Documentation Author Signature:	Stefan Gracik
Company:	Alter Consulting Engineers	Signature Date:	03/04/2025
Address:	66 Franklin St Ste 300	CEA/ HERS Certification Identification (if applicable):	
City/State/Zip:	Oakland, CA 94607	Phone:	510-474-0379

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 provides to the building owner at occupancy.

Responsible Designer Name:	Karen Richards	Responsible Designer Signature:	
Company:	Siegel & Strain Architects	Date Signed:	03/05/2025
Address:	6201 Doyle St., Suite B	License:	C-32146
City/State/Zip:	Emeryville, CA 94608	Phone:	510-547-8092

STATE OF CALIFORNIA
Envelope Component Approach
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-ENV-E
Project Name: MLK JR YOUTH SERVICES CENTER / YAP	**Report Page:**	**(Page 5 of 10)**
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J. EXTERIOR DOOR SCHEDULE

This table demonstrates compliance with prescriptive exterior door requirements in 140.3(a)7/ 170.2(a)4 for new construction or additions. Doors which are being replaced (alterations) do not need to be documented in this table because there are no Title 24, Part 6 requirements that apply. Exterior doors separate conditioned space from unconditioned space or from ambient air. Doors that are more than 25% glass in area are considered Glazed Doors and should be documented on Table K with fenestration per Table B.

01	02	03	04	05	06	07	
Tag/Plan Detail ID	Name/Description	Occupancy Type	Door Type	Door Insulation	Maximum Allowed U-factor	U-factor per Design	
102.1	A2.01	Nonresidential	Swinging	Uninsulated double-layer metal	0.7	per JA4	0.7
127.1	A2.01	Nonresidential	Swinging	Uninsulated double-layer metal	0.7	per JA4	0.7
122.1	A2.01	Nonresidential	Swinging	Uninsulated double-layer metal	0.7	per JA4	0.7
121.4	A2.01	Nonresidential	Swinging	Uninsulated double-layer metal	0.7	per JA4	0.7

K. FENESTRATION AND GLAZED DOOR SCHEDULE

This table demonstrates compliance with prescriptive fenestration requirements in 140.3(a)5/ 170.2(a)3 for new constructions, 141.0(a)/ 180.1 for additions, or 141.0(b)2A/ 180.2 for alterations. Exterior doors that are more than 25% glass in area are considered Glazed Doors and should be documented on this table with fenestration.

01	Indicate fenestration types included in the project:[1]	☐ Vertical (alterations)	☒ Vertical (new)	☐ Skylights	☐ Glazed Doors (new only)

[1] *FOOTNOTES: Fenestration types indicated above as "(new only)" do not have Title 24, Part 6 requirements for alterations. New construction and additions do have requirements and should be clicked above and compliance demonstrated within this table.*

STATE OF CALIFORNIA
Envelope Component Approach
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-ENV-E
Project Name: MLK JR YOUTH SERVICES CENTER / YAP	**Report Page:**	**(Page 6 of 10)**
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K. FENESTRATION AND GLAZED DOOR SCHEDULE

Vertical Fenestration and Glazed Doors- Total Building & West Facing Area (New Construction & Additions Only)

01	02	03	04	05
Elevation Item Tag/ Description	Orientation (Azimuth)[1]	Gross Exterior Wall Area[2] (ft^2)	Display Perimeter Length[2] (ft)	Vertical Fenestration Area per Design[3] (ft^2)
2/A3.02	West Facing	2425	252.3	15.12
1/A3.01	North Facing	2790	288.6	560.12
2/A3.01	East Facing	2305	252.83	321.25
1/A3.02	South Facing	2735	283.58	112.8

06	Maximum Allowed Vertical Fenestration (ft^2)- All Orientations	6463.86	07	Total Vertical Fenestration (ft^2) per design- All Orientations	1009.29
08	Maximum Allowed Vertical Fenestration (ft^2)- West Facing	1513.8	09	Total Vertical Fenestration (ft^2) per design- West Facing	15.12

[1] *FOOTNOTES: Orientation between 226 deg and 315 deg are considered "West Facing". A diagram has been provided in the Nonresidential Compliance Manual for visual reference.*
[2] *Do not include demising walls per 140.3(a)5 .*
[3] *Includes glazed door fenestration area .*

Vertical Fenestration And Glazed Doors- U-factor, Solar Heat Gain Coefficient (RSHGC/ SHGC), Visible Transmittance (VT)

01	☐	Calculate Area-Weighted Average U-factor for Vertical Fenestration and Glazed Doors[1]
02	☐	Calculate Area-Weighted Average (R)SHGC for Vertical Fenestration and Glazed Doors[1]
03	☐	Calculate Area-Weighted Average VT for Vertical Fenestration and Glazed Doors[1]

Vertical Fenestration And Glazed Doors- U-factor, Solar Heat Gain Coefficient (RSHGC/ SHGC), Visible Transmittance (VT)

04	05	06	07	08	09	10	11	12	13
Tag/Plan Detail ID	Fenestration Type	Occupancy & Status	U-factor/ (R)SHGC Compliance Method	VT Compliance Method	Calculation Method for Performance Values per Design[2]	Product Performance Unit	Required Product Performance	Product Performance per Design	Area ft^2
OPERABLE WINDOWS	Operable window	Nonresidential/ Relocatable 1 CZ: : Alt. (Replacement <= 150ft2)			NFRC Certified	U-factor (max)	0.58	0.58	145.05
						(R)SHGC (max)			
						VT (min)			

STATE OF CALIFORNIA
Envelope Component Approach
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-ENV-E
Project Name: MLK JR YOUTH SERVICES CENTER / YAP	**Report Page:**	**(Page 7 of 10)**
	Date Prepared:	2025-03-05T14:48:29-05:00

K. FENESTRATION AND GLAZED DOOR SCHEDULE

Vertical Fenestration And Glazed Doors- U-factor, Solar Heat Gain Coefficient (RSHGC/ SHGC), Visible Transmittance (VT)

04	05	06	07	08	09	10	11	12	13
Tag/Plan Detail ID	Fenestration Type	Occupancy & Status	U-factor/ (R)SHGC Compliance Method	VT Compliance Method	Calculation Method for Performance Values per Design[2]	Product Performance Unit	Required Product Performance	Product Performance per Design	Area ft^2
FIXED WINDOWS	Fixed window	Nonresidential/ Relocatable 1 CZ: : Alt. (Replacement > 150ft2)	Table141.0-A	Table 140.3-B/C/D	NFRC Certified	U-factor (max)	0.58	0.58	664.24
					☐ Overhang/ Slats used for RSHGC	(R)SHGC (max)	0.41	0.41	
						VT (min)	0.42	0.42	
New Storefront System	Storefront	Nonresidential/ Relocatable 1 CZ: : Alt. (Adding New > 50ft2)	Table 140.3-B/C/D	Table 140.3-B/C/D	NFRC Certified	U-factor (max)	0.41	0.41	200
					☐ Overhang/ Slats used for RSHGC	(R)SHGC (max)	0.26	0.26	
						VT (min)	0.46	0.46	
Glazed Doors	Glazed door	Nonresidential/ Relocatable 1 CZ: : New	Table 140.3-B/C/D	Table 140.3-B/C/D	NFRC Certified	U-factor (max)	0.45	0.45	50
					☐ Overhang/ Slats used for RSHGC	(R)SHGC (max)	0.23	0.23	
						VT (min)	0.17	0.17	

[1] *FOOTNOTES: If any individual fenestration product is non-compliant, products may show compliance using an area-weighted calculation. Chromogenic glazing is not included in area-weighted calculations. Area-weighted calculation shown in separate area-weighted table below.*
[2] *The NA6 Default Calculation can only be used for alterations or dwelling units in buildings with <= 3 habitable stories. Alterations are limited to 200ft^2 of site built glazing and dwelling units are limited to 250ft^2 or 5% of conditioned floor area. If the fenestration does not meet these conditions, the only options for determining fenestration values are NFRC Certification or the Default Tables in 110.6.*
[3] *Overhangs must extend past the left and right window the same distance as the depth of the overhang or greater to show an affect on the RSHGC. If an overhang does not meet this requirement, the affect of the overhang will be ignored.*
[4] *Projecting includes casement and awning windows.*

STATE OF CALIFORNIA
Envelope Component Approach
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-ENV-E
Project Name: MLK JR YOUTH SERVICES CENTER / YAP	**Report Page:**	**(Page 2 of 10)**
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B. PROJECT SCOPE

[1] *FOOTNOTE: Doors that are more than 25% glass in area are considered Glazed Doors and should be documented on table K with fenestration.*
[2] *Roof recovers and replacements must also check "Roof Assembly" box and document compliance with insulation requirements in Table F. Roof recoats may document compliance with roof material only in Table G.*

C. COMPLIANCE RESULTS

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

Opaque Envelope Components					Fenestration	Daylighting Spaces > 5,000ft^2	Compliance Results
Roof Assembly	Roofing Materials	Walls	Floors	Doors			
01	02	03	04	05	06	07	08
(See Table F)	(See Table G)	(See Table H)	(See Table I)	(See Table J)	(See Table K)	(See Table L)	COMPLIES with Exceptional Conditions
Yes		Yes		Yes	Yes	Yes	

D. EXCEPTIONAL CONDITIONS

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

Additional documentation for any assembly complying using "Approved Software" or "Other per JA4.1.2.1" to calculate design thermal performance may be requested by the plans examiner.

E. ADDITIONAL REMARKS

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

F. ROOF ASSEMBLY SCHEDULE

This table demonstrates compliance for prescriptive roof assembly requirements in 140.3(a)1B/ 170.2(a)1B for new construction, 141.0(a)/ 180.1 for additions, or 141.0(b)2Bii/ 180.2 for alterations,

01	Indicate roof types included in the project:	☒ Framed	☐ Framed-Multifamily	☐ SIPS	☐ Span Deck & Concrete	☐ Metal Panels	☐ Metal Building

STATE OF CALIFORNIA
Envelope Component Approach
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-ENV-E
Project Name: MLK JR YOUTH SERVICES CENTER / YAP	**Report Page:**	**(Page 3 of 10)**
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F. ROOF ASSEMBLY SCHEDULE

Framed Roof Assemblies

01	☐	Include Framed Roof Assemblies in Area-Weighted Average U-factor Calculation[1]

02	03	04	05	06
Tag/Plan Detail ID	Name/Description	Status	Exception to Roof Insulation Requirements in §141.0(b)2Bii (Alts. Only)	Occupancy Type
1/A8.40	A8.40	Altered	No exception applies	Nonresidential/ Relocatable 1 CZ

07	08	09	10	11	12	13	14	15		16
Tag/Plan Detail ID	How Design U-factor was determined	Roof Type & Frame Material	Frame Spacing Depth	Cavity Insulation per Design[2]	Continuous Insulation per Design[2]	Thermal Performance Unit	Required Thermal Performance[3]	U-factor per Design		Net Area[4] ft^2
1/A8.40	Other per JA4.1.2.1	Rafter		16	10	U-factor	0.037	per JA4		
								per Software/ Other	0.037	

[1] *FOOTNOTES: If any individual assembly is non-compliant, assemblies may show compliance using an area-weighted calculation. Metal building roofs may not be combined with other roof types. The area-weighted compliance option is not available for alterations demonstrating compliance with R-values in Table 141.0-C.*
[2] *For alterations using U-factor as the Thermal Performance Unit, at least R-10 insulation must be above deck.*
[3] *If "R-value" is shown in cell 13 as the Thermal Performance Unit, the R-value shown here is for continuous insulation per Table 141.0-C.*
[4] *Roof area minus any fenestration/ skylight area*

G. RATED ROOFING MATERIAL (COOL ROOF)

This section does not apply to this project.

H. WALL ASSEMBLY SCHEDULE

This table demonstrates compliance with prescriptive wall assembly requirements in 140.3(a)/ 170.2(a) for new constructions, 141.0(a)/ 180.1 for additions and 141.0(b)1B/ 180.2 for alterations.

01	Indicate wall types included in the project:[1]	☒ Framed	☐ Mass (new only)	☐ Concrete Sandwich Panel (new only)	☐ SIPS	☐ ICF (new only)
		☐ Metal Panels	☐ Metal Building	☐ Spandrel/ Curtain Wall	☐ Straw Bale	☐ Log Home (new only)

STATE OF CALIFORNIA
Envelope Component Approach
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-ENV-E
Project Name: MLK JR YOUTH SERVICES CENTER / YAP	**Report Page:**	**(Page 4 of 10)**
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H. WALL ASSEMBLY SCHEDULE

[1] *FOOTNOTES: Wall types indicated above as "(new only)" do not have Title 24, Part 6 requirements for alterations. New construction and additions do have requirements and should be clicked above and compliance demonstrated within this table.*

Framed Walls

01	☐	Calculate Area-Weighted Average U-factor for Metal Framed Walls[1]
02	☐	Include Wood Framed Walls in Area-Weighted Average U-factor Calculation[1]

03	04	05	06	07	08	09	10	11	12		13
Tag/Plan Detail ID	Occupancy & Status	How Design U-factor was determined	Location/ Fire Rating	Frame Material, Spacing & Depth	Cavity Insulation per Design	Continuous Insulation per Design	Thermal Performance Unit	Required Thermal Performance	U-factor per Design		Net Area[3] ft^2
ALTERED 2x6 STUD WALL	Any occupancy: Altered		Exterior wall	Wood 1/2" gyp 16" OC 2x6	R-19		R-value	R-11	per JA4		
									per Software/ Other		
NEW/ADDITION 2x6 STUD WALL	Nonresidential/ Relocatable 1 CZ: New	JA4 Tables	Exterior wall	Wood 1/2" gyp 16" OC 2x6	R-19	None	U-factor	0.11	per JA4	0.074	
									per Software/ Other		

[1] *FOOTNOTES: If any individual assembly is non-compliant, assemblies may show compliance using an area-weighted calculation. Metal framed walls may not be combined with other wall types. Wood framed walls are combined with SIPS, spandrel & curtain, metal panel and straw bale wall types. The area-weighted compliance option is not available for alterations demonstrating compliance with R-values in Table 141.0-C.*
[2] *If "R-value" is shown in cell 10 as the Thermal Performance Unit, the R-value shown here is for cavity insulation per 141.0(b)1B.*
[3] *Wall area minus any fenestration area*

I. FLOOR ASSEMBLY SCHEDULE

This section does not apply to this project.

Project Title:

CITY OF BERKELEY
PARKS, RECREATION & WATERFRONT DEPARTMENT
MLK JR. YOUTH SERVICES CENTER / YAP SEISMIC RETROFIT AND RENOVATION
1730 Oregon Street, Berkeley, CA 94703
APN#: 053-1676-001-02

Design Firm:
SIEGEL & STRAIN Architects
6201 Doyle Street, Suite B
Emeryville, CA 94608
TEL 510 / 547-8092
info@siegelstrain.com

Consultant:

Stamp:

REGISTERED PROFESSIONAL ENGINEER
MATTHEW DENGHAN
No. M36987
Exp. 9-30-26
STATE OF CALIFORNIA

No.	Description	Date
	PERMIT SET	12/04/24

Issue Note: PERMIT RESUBMITTAL 03/07/25

City Plan No.:	8286
City File No.:	402-145
Specification No.:	#25-11695-C
Project ID:	-
Drawn by:	Author
Checked by:	Checker
Plot Date:	-
Scale:	

Sheet Title:
TITLE 24

Sheet No.:
M9.4

3/4/2025 5:06:56 PM

ABBREVIATIONS

AC	AIR CONDITIONING
AC	ALTERNATING CURRENT
ACH	AIR CHANGES PER HOUR
ACM	ASBESTOS CONTAINING MATERIAL
AEE	ASSOCIATION OF ENERGY ENGINEERS
AFD	ADJUSTABLE FREQUENCY DRIVE
AFUE	ANNUAL FUEL EFFICIENCY RATIO
AHU	AIR HANDLING UNIT
AI	ANALOG INPUT
AO	ANALOG OUTPUT
ASHRAE	AMERICAN SOCIETY OF HEATING REFRIGERATION AND AIR CONDITIONING ENGINEERS
B	BOILER
BACNET	A DATA COMMUNICATION PROTOCOL FOR BUILDING AUTOMATION AND CONTROL NETWORKS
BAS	BUILDING AUTOMATION SYSTEM
BCA	BUILDING COMMISSIONING ASSOCIATION
BI	BACKWARD INCLINE
BI	BINARY INPUT
BO	BINARY OUTPUT
BSLN	BASELINE
BTU	BRITISH THERMAL UNIT
BTUH	BRITISH THERMAL UNITS / HOUR
BY	BASE YEAR
CAV	CONSTANT AIR VOLUME
CD	COLD DECK
CDD	COOLING DEGREE DAYS
CEM	CERTIFIED ENERGY MANAGER
CFC	CHLOROFLUOROCARBON
CFM	CUBIC FEET PER MINUTE
CH	CHILLER
CHW	CHILLED WATER
CHWP	CHILLED WATER PUMP
CHWR	CHILLED WATER RETURN
CHWRT	CHILLED WATER RETURN TEMPERATURE
CHWS	CHILLED WATER SUPPLY
CHWST	CHILLED WATER SUPPLY TEMPERATURE
CLF	COOLING LOAD FACTOR
CLTD	COOLING LOAD TEMPERATURE DIFFERENCE
COP	COEFFICIENT OF PERFORMANCE
CRAC	COMPUTER ROOM AIR CONDITIONER
CT	COOLING TOWER
CV	CONSTANT VOLUME
CVRMSE	COEFFICIENT OF VARIATION OF THE ROOT MEAN SQUARE OF THE ERROR
CWP	CONDENSER WATER PUMP
CWR	CONDENSER WATER RETURN
CWRT	CONDENSER WATER RETURN TEMPERATURE
CWS	CONDENSER WATER SUPPLY
CWST	CONDENSER WATER SUPPLY TEMPERATURE
CY	CURRENT YEAR
DA	DISCHARGE AIR
DB	DATA BASE
DB	DRY BULB
DC	DIRECT CURRENT
DCV	DEMAND CONTROLLED VENTILATION
DD	DEGREE DAY
DDC	DIRECT DIGITAL CONTROL
DH	DUCT HEATER
DI	DIGITAL INPUT
DO	DIGITAL OUTPUT
DP	DEW POINT
DP	DIFFERENTIAL PRESSURE
DX	DIRECT EXPANSION
EAT	ENTERING AIR TEMPERATURE
ECM	ELECTRONICALLY COMMUTATED MOTOR
ECM	ENERGY CONSERVATION MEASURE
ECO	ENERGY CONSERVATION OPPORTUNITY
EDH	ELECTRIC DUCT HEATER
EEM	ENERGY EFFICIENCY MEASURE
EER	ENERGY EFFICIENCY RATIO
EF	EXHAUST FAN
EH	ELECTRIC HEATER
EMS	ENERGY MANAGEMENT SYSTEM
ESCO	ENERGY SERVICE COMPANY
EUH	ELECTRIC UNIT HEATER
EWT	ENTERING WATER TEMPERATURE
FC	FORWARD CURVE
FCU	FAN COIL UNIT
FIM	FACILITY IMPROVEMENT MEASURE
FLA	FULL LOAD AMPS
FMS	FACILITY MANAGEMENT SYSTEM
FPM	FEET PER MINUTE
FW	FEED WATER
GPM	GALLONS PER MINUTE
GUI	GRAPHICAL USER INTERFACE
HCFC	HYDROCHLOROCFUOROCARBON
HD	HOT DECK
HDD	HEATING DEGREE DAYS
HEPA	HIGH EFFICIENCY PARTICULATE ARRESTING
HFC	HYDROFLUOROCARBON
HHV	HIGHER HEATING VALUE
HHWP	HEATING HOT WATER PUMP
HHWR	HEATING HOT WATER RETURN
HHWS	HEATING HOT WATER SUPPLY
HL	HIGH LIMIT
HPS	HIGH PRESSURE STEAM
HR	HEAT RECOVERY
HRU	HEAT RECOVERY UNIT
HRV	HEAT RECOVERY VENTILATOR
HSPF	HEATING SEASONAL PERFORMANCE FACTOR
HVAC	HEATING VENTILATION AND AIR CONDITIONING
HWP	HOT WATER PUMP
HWR	HOT WATER RETURN
HWS	HOT WATER SUPPLY
HWRT	HOT WATER RETURN TEMPERATURE
HWST	HOT WATER SUPPLY TEMPERATURE
HX	HEAT EXCHANGER
I/O	INPUT OUTPUT
IAQ	INDOOR AIR QUALITY
IPMVP	INTERNATIONAL PERFORMANCE MEASUREMENT AND VERIFICATION PROTOCOL
IR	INFRA-RED
LAT	LEAVING AIR TEMPERATURE
LHV	LOWER HEATING VALUE
LL	LOW LIMIT
LON	LOCAL OPERATING NETWORK
LP	LOW PRESSURE
LPS	LOW PRESSURE STEAM
LRA	LOCKED ROTOR AMPS
LWBT	LEAVING WET BULB TEMPERATURE
LWT	LEAVING WATER TEMPERATURE
M&V	MEASUREMENT AND VERIFICATION
MA	MIXED AIR
MAT	MIXED AIR TEMPERATURE
MCC	MOTOR CONTROL CENTER
MUA	MAKE-UP AIR UNIT
MX	METRIX UTILITY ACCOUNTING SYSTEM
MZ	MULTI-ZONE
NC	NORMALLY CLOSED
NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
NO	NORMALLY OPEN
NPSH	NET POSITIVE SUCTION HEAD
OA	OUTSIDE AIR
OAP	OUTSIDE AIR PERCENTAGE
OAT	OUTSIDE AIR TEMPERATURE
ODP	OPEN DRIP PROOF
OWS	OPERATOR WORK STATION
PC	PERFORMANCE CONTRACTING
PE	PROFESSIONAL ENGINEER
PH	PRE-HEAT
PID	PROPORTIONAL INTEGRAL DERIVATIVE
PRV	PRESSURE RELIEF VALVE
PRV	PRESSURE REDUCING VALVE
PTAC	PACKAGED TERMINAL AIR CONDITIONER
RA	RETURN AIR
RF	RETURN FAN
RH	REHEAT
RH	RELATIVE HUMIDITY
RPM	REVOLUTIONS PER MINUTE
RTD	RESISTANCE TEMPERATURE DETECTOR
RTU	ROOF TOP UNIT
SA	SUPPLY AIR
SAT	SUPPLY AIR TEMPERATURE
SC	SHADING COEFFICIENT
SEER	SEASONAL ENERGY EFFICIENCY RATIO
SF	SUPPLY FAN
SHFG	SOLAR HEAT GAIN FACTOR
SHR	SENSIBLE HEAT RATIO
SP	SET POINT
SP	STATIC PRESSURE
SWP	STEAM WORKING PRESSURE
T	TEMPERATURE
T	THERMOSTAT
TEV	THERMOSTATIC EXPANSION VALVE
TOD	TIME OF DAY
TORR	MILLIMETER OF MERCURY (MMHG)
TXV	THERMOSTATIC EXPANSION VALVE
UH	UNIT HEATER
UV	ULTRAVIOLET
UV	UNIT VENTILATOR
VAV	VARIABLE AIR VOLUME
VD	VOLUME DAMPER
VFD	VARIABLE FREQUENCY DRIVE
VSD	VARIABLE SPEED DRIVE
VSP	VARIABLE SPEED PUMP(ING)
WB	WET BULB
WC	WATER COLUMN
YTD	YEAR TO DATE

OWNERSHIP OF INSTRUMENTS OF SERVICE

1. ALL REPORTS, DRAWINGS, SPECIFICATIONS, COMPUTER FILES, FIELD DATA, NOTES AND OTHER DOCUMENTS AND INSTRUMENTS PREPARED BY THE CONSULTANT AS INSTRUMENTS OF SERVICE SHALL REMAIN THE PROPERTY OF THE CONSULTANT. THE CONSULTANT SHALL RETAIN ALL COMMON LAW, STATUTORY AND OTHER RESERVED RIGHTS, INCLUDING THE COPYRIGHT THERETO.

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APPLICABLE CODES

- 2022 CALIFORNIA BUILDING CODE
- 2022 CALIFORNIA ELECTRICAL CODE
- 2022 CALIFORNIA MECHANICAL CODE
- 2022 CALIFORNIA ENERGY CODE
- 2022 CALIFORNIA FIRE CODE
- 2022 CALIFORNIA PLUMBING CODE
- ADOPTED CITY OF BERKELEY AMENDMENTS

GREASE INTERCEPTOR CALCULATIONS Quote: X3X571XE

Reference No. 70186 Project Name: MLK YAP

Step 1: Flow rate to grease interceptor

Fixture flow rate: (cu in / 231) = gal x 0.75 / 2 min = 2 min flow rate

NAME	TYPE	DIMENSIONS	QTY	CU IN	FLOW RATE
3 Compartment Sink	3 Compartment Sink	23" x 23" x 14" (3)	1	22,218	36.07 GPM
Hand Sink	Hand Sink	10" x 14" x 5"	2	1,400	2.28 GPM
Ice Machine (with drain)	Ice Machine (with drain)	N/A	1	N/A	0.5 GPM
Mop Basin	Mop Basin	24" x 24" x 10"	1	5,760	9.35 GPM
Prep Sink One Bowl	Prep Sink One Bowl	21" x 21" x 14"	1	6,174	10.02 GPM
Total					**58.21 GPM**

Step 2: Grease Production

Servings per day x Grease production value x Days between pump-outs = Grease output

Servings per day: 50
Grease production value: 0.025 lbs per serving (Cafeteria - Heat & Serve: Medium / No flatware)
Days between pump-outs: 90 days

50 x 0.025 x 90 = 112.5 lbs of FOG

SCHIER MODEL	
GB-50	**Description:** GREASE INTERCEPTOR 50 GPM / 75 GPM, 4" PLAIN/FPT CONNECTIONS, H-20 RATED PICKABLE CAST IRON COVER **Dimensions:** Length: 37", Width: 32.25", Height: 28.5" **Flow Rate/Grease Capacity:** 75 GPM / 287 lbs **Liquid Capacity:** 65 gal

Specification Note: This Great Basin model has been sized to the flow rate and grease production requirements of the application and may not be substituted by liquid capacity alone. Any substitution requests must be approved by the specifying engineer and the authority having jurisdiction.

Please contact support@schierproducts.com for technical and procurement support for the specified Great Basin model.

1

GENERAL NOTES

NEW CONSTRUCTION

A. ALL WORK SHALL COMPLY WITH THE LATEST ADOPTED STATE AND LOCAL CODES, AS WELL AS FEDERAL, STATE, AND MUNICIPAL REGULATIONS.(THESE NOTES APPLY TO ALL PLUMBING DRAWINGS)
B. THE WORK REQUIRED CONSISTS OF PERFORMING ALL LABOR AND FURNISHING ALL MATERIALS, FIXTURES AND EQUIPMENT REQUIRED TO PROVIDE A COMPLETE INSTALLATION OF ALL PLUMBING SYSTEMS AS INDICATED IN THE CONTRACT DOCUMENTS. IT SHALL FURTHER INCLUDE FURNISHING AND INSTALLING ALL ASSOCIATED ITEMS REQUIRED FOR THE PROPER OPERATION OF ALL PLUMBING SYSTEMS INCLUDING BUT NOT LIMITED TO ELECTRICAL, CONTROL AND HYRDONIC SYSTEM DEVICES.
C. DRAWINGS ARE DIAGRAMMATIC, CONTAINING INFORMATION TO A DEGREE OF DETAIL CONSISTENT WITH THEIR SCALE AND ADEQUATE TO CONVEY THE DESIGN INTENT. THE CONTRACTOR IS RESPONSIBLE FOR VERIFICATION OF ALL FIELD DIMENSIONS, LOCATIONS AND CONDITIONS PRIOR TO THE PURCHASE OF ANY MATERIALS AND COMMENCEMENT OF WORK. NOTIFY THE ARCHITECT OF ALL DISCREPANCIES THAT WILL AFFECT THE WORK FOR RESOLUTION.
D. EQUIPMENT AND MATERIAL SHOWN ON DRAWINGS ARE BASED ON MANUFACTURER'S PUBLISHED DATA, AND ARE, IN THE DESIGNER'S PROFESSIONAL OPINION, REPRESENTATIVE OF TYPICAL SIZES. ALL EQUIPMENT AND MATERIAL PROVIDED SHALL FIT WITHIN THE SPACE PROVIDED. ALL EQUIPMENT, FIXTURES, AND SERVICEABLE DEVICES SHALL BE INSTALLED WITH ACCESS AND CLEARANCE FOR MAINTENANCE. COORDINATE WITH THE GENERAL CONTRACTOR AND OTHER TRADES TO PROVIDE THIS ACCESS AND CLEARANCE. INSTALL ALL EQUIPMENT AND MATERIALS PER MANUFACTURER'S INSTRUCTIONS.
E. IF EQUIPMENT, FIXTURES, AND MATERIAL, OTHER THAN THAT SCHEDULED OR SPECIFIED, IS APPROVED AND PROVIDED, IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE AND PROVIDE REVISED UTILITIES AND SERVICE CONNECTIONS AND VERIFY THE SPACE ALOTTED FOR ADEQUECY AND CLEARANCE REQUIREMENTS. THIS INCLUDES BUT IS NOT LIMITED TO REVISED POWER, WATER, CONTROLS, HYDRONICS, WASTE DRAINS, FUEL FLUES AND VENT REQUIREMENTS.
F. COORDINATE ALL LOCATIONS AND SIZES OF STRUCTURAL FLOOR AND WALL PENETRATIONS WITH THE GENERAL CONTRACTOR AND PROVIDE CODE REQUIRED SEALS AT ALL FIRE RATED WALL, CEILING, ROOF AND FLOOR PENETRATIONS.
G. ACCESS DOORS AND/OR PANELS SHALL BE PROVIDED AT ALL MAINTENANCE AND SERVICE LOCATIONS FOR CONCEALED CONTROL DEVICES, VALVES AND PLUMBING EQUIPMENT/DEVICES. UNLESS A SIZE IS SPECIFICALLY NOTED, PANELS SHALL BE SIZED TO SERVICE EQUIPMENT/DEVICE. DOORS AND PANELS SHALL HAVE THE SAME FIRE RATING AS THE WALL OR CEILING IN WHICH THEY ARE INSTALLED. ACCESS DOORS AND/OR PANELS ARE NOT REQUIRED WHERE ADJUSTMENT, MAINTENANCE AND REPLACEMENT ARE POSSIBLE THROUGH LAY IN SUSPENDED CEILING.
H. INSTALL SHUT OFF VALVES AT EACH FIXTURE. INSTALL BRANCH SHUTOFF VALVES WHERE INDICATED ON PLANS. LOCATE AND ORIENT VALVE OPERATORS FOR EASE OF ACCESS AND FULL LIMITS OF OPERATION.
I. INSULATION AND VAPOR BARRIER SHALL BE PROVIDED ON ALL PIPING AND/OR EQUIPMENT SUBJECT TO HEAT LOSS, CONDENSATION, OR CONSTITUTING A POTENTIAL BURN HAZARD.
J. INSULATION SHALL NOT BE CRUSHED OR COMPRESSED THROUGH INTERFERENCE WITH SYSTEMS INSTALLED BY OTHER TRADES OR BUILDING CONSTRUCTION.
K. INSTALL PLUMBING AND PIPING HIGH POINTS AS TIGHT AS POSSIBLE TO THE BUILDING STRUCTURE TO ALLOW PROPER PITCH AND MAXIMIZE CEILING HEIGHT.
L. PROVIDE AIR VENTS AT PIPING HIGH POINTS AND DRAINS AT LOW POINTS IN MAINS.
M. ALL PIPING SHALL BE INSTALLED IN SUCH A MANNER AS TO AVOID FREEZING. ALL WATER PIPING SHALL BE INSTALLED BELOW ATTIC INSULATION AND NO PIPING SHALL BE INSTALLED WITHIN EXTERIOR WALLS. THE INSTALLATION OF PLUMBING SYSTEMS SHALL IN NO WAY CRUSH OR COMPROMISE BUILDING INSULATION AND ALL BELOWGRADE WATER PIPING SHALL BE INSTALLED NO LESS THAN 6" BELOW FROST DEPTH.
N. AT THE COMPLETION OF THE WORK AND PRIOR TO THE FINAL ACCEPTANCE, ALL PARTS OF THE WORK SHALL BE THOROUGHLY CLEANED.
O. ALL PIPING SHALL BE CONCEALED IN WALLS AND BEHIND FIXED FURNISHINGS UNLESS OTHERWISE INDICATED. EXPOSED PIPING IN FINISHED AREAS SHALL BE CHROME PLATED WITH A CHROME PLATED ESCUTCHEON AT EACH FINISHED ENTRY/EXIT.
P. ALL PIPING SHALL BE RUN PARALLEL TO BUILDING LINES AND BE SUPPORTED AND ANCHORED AS REQUIRED TO FACILITATE EXPANSION AND CONTRACTION. ALL PIPING SHALL BE CONCEALED EXCEPT IN UNFINISHED SPACES. INSTALL AS REQUIRED TO MEET ALL CONSTRUCTION CONDITIONS AND TO ALLOW FOR INSTALLATION OF OTHER WORK INCLUDING DUCTS AND ELECTRICAL CONDUIT. ALL PIPING EXPOSED TO VIEW SHALL BE ROUTED AS HIGH AS POSSIBLE AND TO THE UNDERSIDE OF STRUCTURE.
Q. ELEVATIONS LISTED FOR ALL PLUMBING SYSTEM PIPING IN THE CONTRACT DOCUMENTS ARE TO BE VERIFIED PRIOR TO CONSTRUCTION AGAINST EXISTING CONDITIONS, UTILITIES AND NEW CONSTRUCTION. ALL SLOPED PLUMBING SYSTEMS SHALL HAVE RIGHT OF WAY OVER ALL OTHER BUILDING SYSTEM COMPONENTS.
R. ALL EXISTING BUILDING AND SITE FEATURES NOT BEING ALTERED BY THIS PROJECT ARE TO BE PROTECTED FROM DAMAGE. CONTRACTOR SHALL REPAIR ALL DAMAGE OCCURRING TO EXISTING CONSTRUCTION CAUSED BY THE CONTRACTOR'S OPERATIONS AT HIS/HER EXPENSE TO THE COMPLETE SATISFACTION OF THE OWNER.
S. THE PLUMBING CONTRACTOR IS RESPONSIBLE FOR COORDINATING ALL WORK UNDER HIS/HER CONTRACT WITH ALL OTHER BUILDING TRADES. NOTIFY THE ARCHITECT OF ALL DISCREPANCIES OR QUESTIONS PERTAINING TO EXTENT OF WORK PRIOR TO BIDDING.
T. ROVIDE AND DOCUMENT CORRESPONDENCE TO THE GENERAL CONTRACTOR AND ALL TRADES, REQUIREMENTS FOR INSTALLATION, OPENINGS, CHASES AND UTILITY SERVICE CONNECTIONS. THIS INCLUDES SUPPORTING DEVICES, POINT LOADS, ACCESS OPENINGS, SLEEVES AND CUTOUTS.
U. PROVIDE STARTERS FOR MOTORS UNLESS SPECIFICALLY IDENTIFIED AS BEING PROVIDED BY THE ELECTRICAL CONTRACTOR. PROVIDE ALL INTERNAL OVER CURRENT PROTECTION DEVICES AND INTERNAL TRANSFORMERS FOR PACKAGED EQUIPMENT.

PLUMBING

NUMBER	NAME
P0.1	PLUMBING COVER SHEET
P0.2	PLUMBING SCHEDULE
P2.1	PLUMBING - FLOOR PLAN
P2.2	PLUMBING - LOW ROOF
P5.0	PLUMBING RISER DIAGRAMS
P6.1	PLUMBING ENLARGED - KITCHEN
P6.2	PLUMBING ENLARGED - RESTROOMS
P8.1	PLUMBING DETAILS
P9.1	TITLE 24

1

Project Title:

CITY OF BERKELEY
PARKS, RECREATION & WATERFRONT DEPARTMENT
MLK JR. YOUTH SERVICES CENTER / YAP
SEISMIC RETROFIT AND RENOVATION
1730 Oregon Street, Berkeley, CA 94703
APN#: 053-1676-001-02

Design Firm:

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Exp. 9-30-26
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No.	Description	Date
	PERMIT SET	12/04/24
1	PLAN CHECK #1	03/07/25

Issue Note: PERMIT RESUBMITTAL 03/07/25

City Plan No.:	8286
City File No.:	402-145
Specification No.:	#25-11695-C
Project ID:	-
Drawn by:	-
Checked by:	-
Plot Date:	-
Scale:	NTS

Sheet Title: PLUMBING COVER SHEET

Sheet No.: P0.1

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PLUMBING DESIGN CRITERIA

DOMESTIC WATER PIPING SYSTEM:
BASIS OF DESIGN: 2022 CALIFORNIA PLUMBING CODE, APPENDIX A 'RECOMMENDED RULES FOR SIZING THE
PROVIDE COPPER TYPE L (B88) FOR SYSTEM MAINS AND BRANCHES.
WATER SUPPLY SYSTEM'. PIPING SIZED ON 4 FT/100 FT. DROP, VELOCITIES NOT TO EXCEED 6 FT./SEC. (COLD WATER)
AND NOT TO EXCEED 5 FT./SEC. (HOT WATER).

WASTE AND VENT PIPING SYSTEM:
BASIS OF DESIGN: 2022 CALIFORNIA PLUMBING CODE, CHAPTER 7, 'SANITARY DRAINAGE'.
CAST IRON WITH NO HUB COUPLINGS TO BE USED FOR WASTE AND VENT PIPING.
ALL WASTE PIPING SIZED AT 1/4"/FT. SLOPE AT 1/8"/FT FOR PIPING 4" AND LARGER UNLESS OTHERWISE NOTED.

ROOF DRAIN/STORM DRAIN PIPING SYSTEM:
BASIS OF DESIGN: 2022 CALIFORNIA PLUMBING CODE, CHAPTER 11, 'STORM DRAINAGE'.
CAST IRON WITH NO HUB COUPLINGS TO BE USED FOR WASTE AND VENT PIPING.
STORM DRAIN PIPING SIZED AT 1/8"/FT. SLOPE UNLESS OTHERWISE NOTED AND A RAINFALL RATE OF 1.5"/HR.

FOOD SERVICE PLUMBING FIXTURE AND EQUIPMENT ROUGH-IN SCHEDULE

DESCRIPTION	ROUGH-IN SIZE (INCHES)					NOTES
	SAN	INDIRECT	V	CW	HW	
HANDSINK	2	-	1-1/2	1/2	1/2	PROVIDE TMV-1 AND SET TO 105 DEG F WATER FOR HANDWASHING
PREP SINK	-	Y	1-1/2	3/4	3/4	TERMINATE DRAIN AT NEARBY FS WITH AIR GAP.
WATER FILTER	-	-	-	1/2	-	WATER FILTER SUPPLIES ICE MACHINE
ICE MACHINE	-	Y	-	1/2	-	TERMINATE DRAIN AT NEARBY FS WITH AIR GAP. FILTERED WATER FROM WATER FILTER. UNIT LISTED TO NSF 12 WHICH REQUIRES INTERNAL INTEGRAL BACKFLOW PREVENTION (AIR GAP) WITHIN THE EQUIPMENT.
3-COMP SINK	-	Y	-	3/4	3/4	CONNECT DRAINS OF ALL BASINS AND TERMINATE AT NEARBY FS WITH AIR GAP.
UNDERCOUNTER DISHWASHER	-	Y	-	1/2	1/2	TERMINATE DRAIN AT NEARBY FS WITH AIR GAP.

PLUMBING FIXTURE ROUGH-IN SCHEDULE

TAG	DESCRIPTION	ROUGH-IN SIZE (INCHES)				GPM/GPF	ELEC. CONN.	NOTES
		SAN	V	CW	HW			
WC-1	WATER CLOSET	3	2	1"	-	1.28	Y	FLOOR MOUNT, SENSOR FLUSHVALVE ADA PER MOUNTING HEIGHT ON ARCHITECTURAL DRAWINGS. BASED ON: AMERICAN STANDARD, AFWALL MILLENIUM FLOWISE SELECTRONIC HARDWIRED (120V/1PH)
UR-1	URINAL	2	1-1/2	3/4	-	0.125	Y	WALL HUNG, SENSOR FLUSHVALVE, HARDWIRED (120V/1PH) ADA PER MOUNTING HEIGHT ON ARCHITECTURAL DRAWINGS, PROVIDE CLEANOUT AS REQUIRED BY CPC 707.4. BASED ON: AMERICAN STANDARD DECORUM, SLOAN ECOS 186 HW FLUSHVALVE
LV-1	LAVATORY	2	1-1/2	1/2	1/2	0.35	Y	WALL HUNG, SOLID SURFACE, SENSOR FAUCET, HARDWIRED (120V/1PH) PROVIDE TMV-1, SET TO 105 DEG OUTPUT BASED ON: BRADLEY TLX-1 WITH VERGE METRO FAUCET
LV-2	LAVATORY (2-STATION)	2	1-1/2	1/2	1/2	0.35	Y	WALL HUNG, SOLID SURFACE, SENSOR FAUCETS, HARDWIRED (120V/1PH) PROVIDE TMV-1, SET TO 105 DEG OUTPUT BASED ON: BRADLEY LVAD2, VERGE WASH BASIN AND METRO FAUCETS.
DF-1	DRINKING FOUNTAIN AND BOTTLE FILLER	2	1-1/4	1/2	-	-	Y	DUAL HEIGHT, BOTTLE FILLINGS STATION, ADA, VANDAL RESISTANT NON REFRIGERATED, 120V/1PH BASED ON: ELKAY EZH20 LZSTLDDWSVRSK
MS-1	MOP SINK	3	2	3/4	1/2	-	-	TERRAZZO MOP RECPEPTOR, NEO ANGLE, 24X24 BASED ON: FLORESTONE MODEL 87, ELKAY UTILITY FAUCET WITH BUCKET HOOK MODEL LKB940C
SK-1	SINK (COMMUNITY ROOM)	2	1-1/2	1/2	1/2	1.5	-	STAINLESS STEEL, 18 GAUGE, 25" UNDERMOUNT SINGLE BOWL, ADA GOOSENECK LEVER FAUCET, WRISTBLADE HANDLES BASED ON: KOHLER VAULT K-3894-4 AND AMERICAN STANDARD MONTERREY FAUCET
SH-1	SHOWER	2	1-1/2	1/2	1/2	1.5	-	ADA, PRESSURE BALANCE ASSE 1016 VALVE PROVIDE FLOOR DRAIN. BASED ON: AMERICAN STANDARD
HB-1	HOSE BIBB	-	-	3/4	-	-	-	MILD CLIMATE, WALL HOSE BIBB, VACUUM BREAKER BENT NOSE WITH FLANGE, ROUGH FINISH BRASS BODY WITH REMOVABLE WHEEL HANDLE JR SMITH 5670.
HB-2	HOSE BIBB (ENCLOSED WALL HYDRANT)	-	-	3/4	-	-	-	MILD CLIMATE WALL HYDRANT, ROUGH FINISH BRASS BODY, WITH CHROME PLATED FACE, WITH "T" HANDLE KEY INTEGRAL VACUUM BREAKER WITH HOSE CONNECTION, ASSE 1011 JR SMITH 5618
WB-1	WALL BOX CLOTHES WASHER HOOKUP	-	-	1/2	1/2	-	-	RECESSED WALL BOX WITH WATER CONNECTIONS AND DRAIN CONNECTION BASED ON: SIOUX CHIEF OX BOX 696

PLUMBING WATER HEATER SCHEDULE

TAG	DESCRIPTION	LOCATION	CAPACITY				ELECTRICAL				OPERATING WEIGHT (LBS)	MFR & MODEL	NOTES
			RECOVERY (GPM)	RECOVERY (GPH)	INPUT TEMP (°F)	OUTPUT TEMP (°F)	kW	V	PHASE	FLA			
WH-1	ELECTRIC HEAT PUMP TANK-TYPE WATER HEATER	ROOF	-	18	50	150	-	208	1	13	115	SANDEN SANCO2	R744 REFRIGERANT (CO2) ROUTE CONDENSATE DOWN TO FLOOR SINK BELOW.
WH-2	ELECTRIC TANKLESS WATER HEATER	ALL GENDER (108)	1.5	-	50	115	15.6	208	1	75	10	CHRONOMITE R-75L / 208	MOUNTED ABOVE CEILING BEHIND ACCESS PANEL
WH-3	ELECTRIC TANKLESS WATER HEATER	STAFF RR (113)	1.5	-	50	115	15.6	208	1	75	10	CHRONOMITE R-75L / 208	MOUNTED WITHIN CLOSET
WH-4	ELECTRIC TANKLESS WATER HEATER	MEN (111)	0.5	-		105	4.2	208	1	20	6	CHRONOMITE CMI-20L-208	MOUNTED BELOW COUNTER, SERVES BOTH BACK TO BACK LAVATORIES

PLUMBING DRAIN AND CLEANOUT SCHEDULE

TAG	DESCRIPTION	COVER / STRAINER/TYPE	NOTES
FD-1	FLOOR DRAIN	5" DIA	POLISHED NICKEL BRONZE TOP, CAST IRON BODY. TRAP PRIMER CONNECTION.
FS-1	FLOOR SINK	12" SQ	ENAMEL COATED CAST IRON BODY AND HALF GRATE. TRAP PRIMER CONNECTION.
TP-1	TRAP PRIMER	ELECTRONIC	ELECTRONIC TRAP PRIMER, 120V / 1PH RECESSED, MULTIPLE OUTLETS
RR-1	ROOF RECEPTOR	8" DIA	ROOF DECK RECEPTOR DRAIN, CAST IRON BODY, FLASHING CLAMP, DOME STRAINER
WCO	WALL CLEANOUT	-	CAST IRON BODY CLEANOUT TEE, STAINLESS STEEL COVER. BRONZE PLUG.
GCO	GRADE CLEANOUT	7-1/4" DIA	HEAVY DUTY CAST IRON TOP, CAST IRON BODY, BRONZE PLUG
FCO	FLOOR CLEANOUT	7-1/4" DIA	HEAVY DUTY NICKEL BRONZE TOP, CAST IRON BODY, ANCHORED FLANGE.
VTR	VENT THROUGH ROOF	-	VENT PIPE SECURING SCREW
HD-1	HUB DRAIN	-	HUB DRAIN 6" INLET, 4" OUTLET, REFER TO DETAIL 6/P8.1
DSN	DOWNSPOUT NOZZLE	8" DIA	STAINLESS STEEL WITH HINGED COVER JR SMITH 1775
RD/OD-1	ROOF DRAIN (COMBINATION)	12" DIA	CAST IRON BODY WITH MEMBRANE CLAMP, WITH 6 TALL DOME FOR EACH DRAIN JR SMITH 148-Y

PLUMBING MISCELLANEOUS EQUIPMENT SCHEDULE

TAG	DESCRIPTION	LOCATION	NOTES
GI-1	GREASE INTERCEPTOR (HYDROMECHANICAL)	VARIES	50 GPM, HDPE GREASE INTERCEPTOR, IAPMO LISTED A112.14.3 AND CSA B481.1 BASED ON: SCHIER GB-50
DMV-1	DIGITAL MIXING VALVE	UTIL 118	0.5 GPM MIN, ASSE 1070 BASED ON: LEONARD NEUTRON 120V/1PH DUPLEX RECEPTACLE TO POWER THIS AND THE CIRC PUMP.
TMV-1	POINT OF USE THERMOSTATIC MIXING VALVE	VARIES	0.2 GPM MIN, ASSE 1070 BASED ON: LEONARD 170 LF
ST-1	HOT WATER STORAGE TANK	UTIL 118	119 GAL HOT WATER STORAGE TANK 28" DIA, 64" TALL. BASED ON: SANCO2 119GLBK
CP-1	CIRCULATION PUMP	UTIL 118	TINY DOMESITC HOT WATER CIRCULATOR. 1 GPM @ 15 FT, 120V/1PH BASED ON: B&G ECOCIRC 20-18
PRV-1	PRESSURE REDUCING VALVE	STAFF/UTIL 112	LEAD FREE, SET TO 70 PSI BASED ON: WATTS LFN55B OR SIMILAR, 1-1/2" VALVE ON 2" LINE
TP-1	TRAP PRIMER	VARIES	MECHANICAL TRAP PRIMER 1-4 OPENING MANIFOLD, 1/2" INLET CONNECTION, PRESSURE DROP ACTIVATION BASED ON: PRECISION PLUMBING PRODUCTS, PR SERIES
TP-2	TRAP PRIMER	VARIES	ELECTRONIC TRAP PRIMER 1-4 OPENING MANIFOLD, 1/2" INLET CONNECTION, 120 V PRECISION PLUMBING PRODUCTS MINI-PRIMER WITH BOX
DET-1	DOMESTIC EXPANSION TANK	UTIL 118	THERMAL EXPANSION TANK RATED FOR DOMESTIC WATER AMTROL THERM-X-TROL, SMALL

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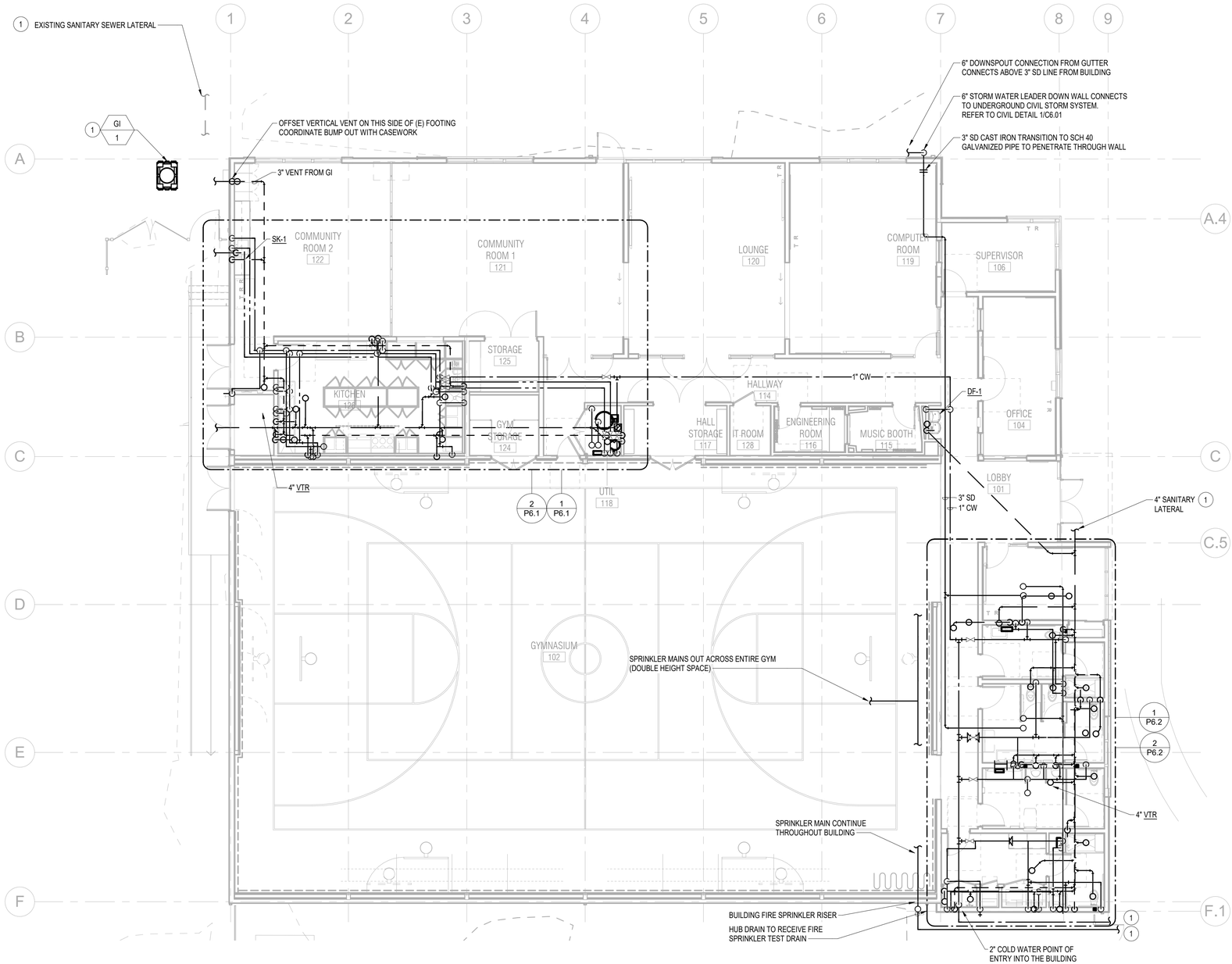
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Sheet Title: PLUMBING SCHEDULE

Sheet No.: P0.2

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1 FLOOR PLAN
1/8" = 1'-0"

GENERAL NOTES

A. REFER TO PLUMBING FIXTURE SCHEDULE FOR BRANCH SIZES TO FIXTURES.

SHEET NOTES

1. REFER TO CIVIL FOR CONTINUATION
2. OFFSET OF SANITARY LINE MAY BE REQUIRED TO REMAIN BELOW GRADE WITHIN THE DRIVE AISLE.

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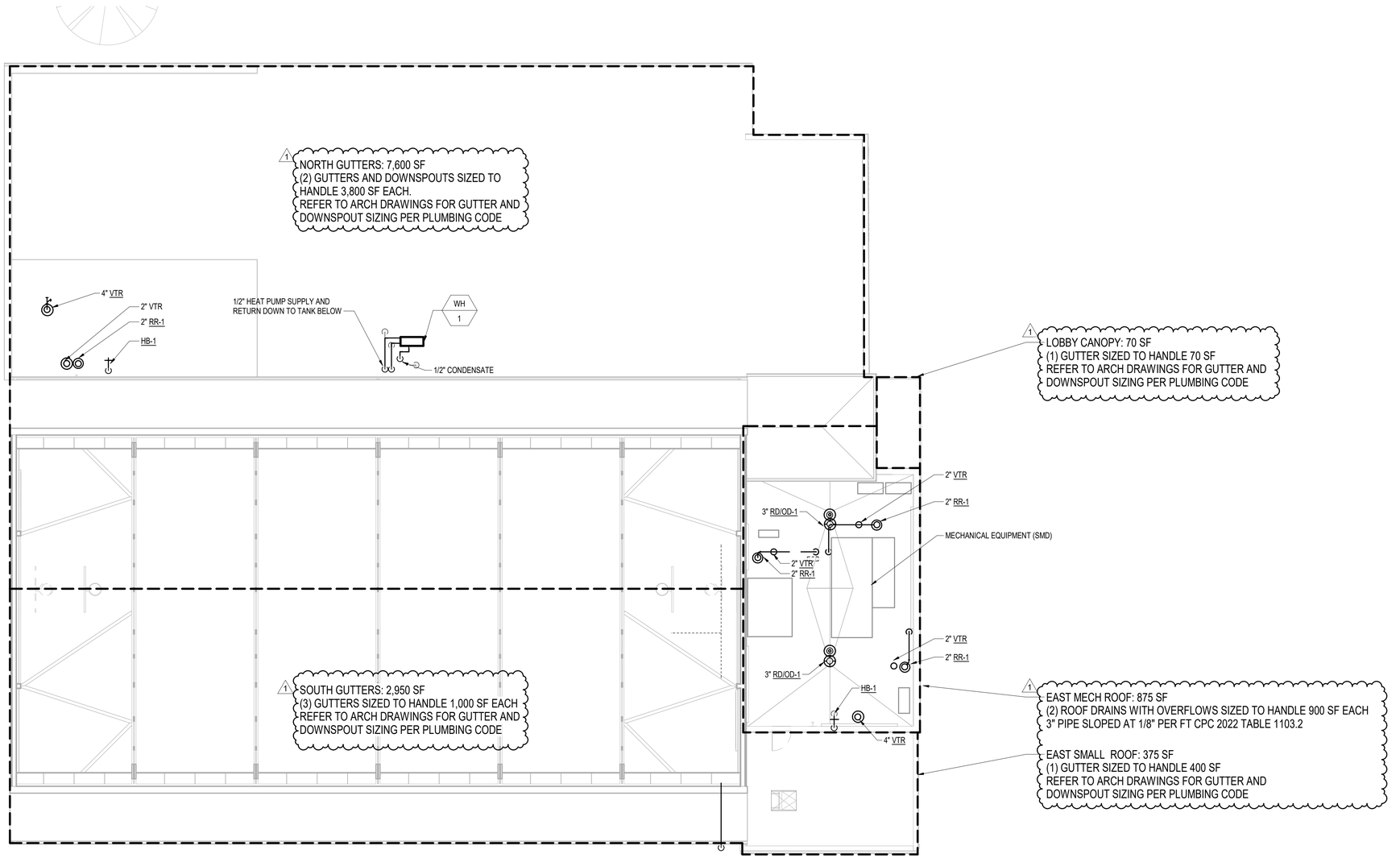
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PLUMBING - FLOOR PLAN

Sheet No.:
P2.1

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1 ROOF PLAN
1/8" = 1'-0"

GENERAL NOTES

A. REFER TO PLUMBING FIXTURE SCHEDULE AND RISER DIAGRAMS FOR BRANCH SIZES TO FIXTURES.

SHEET NOTES

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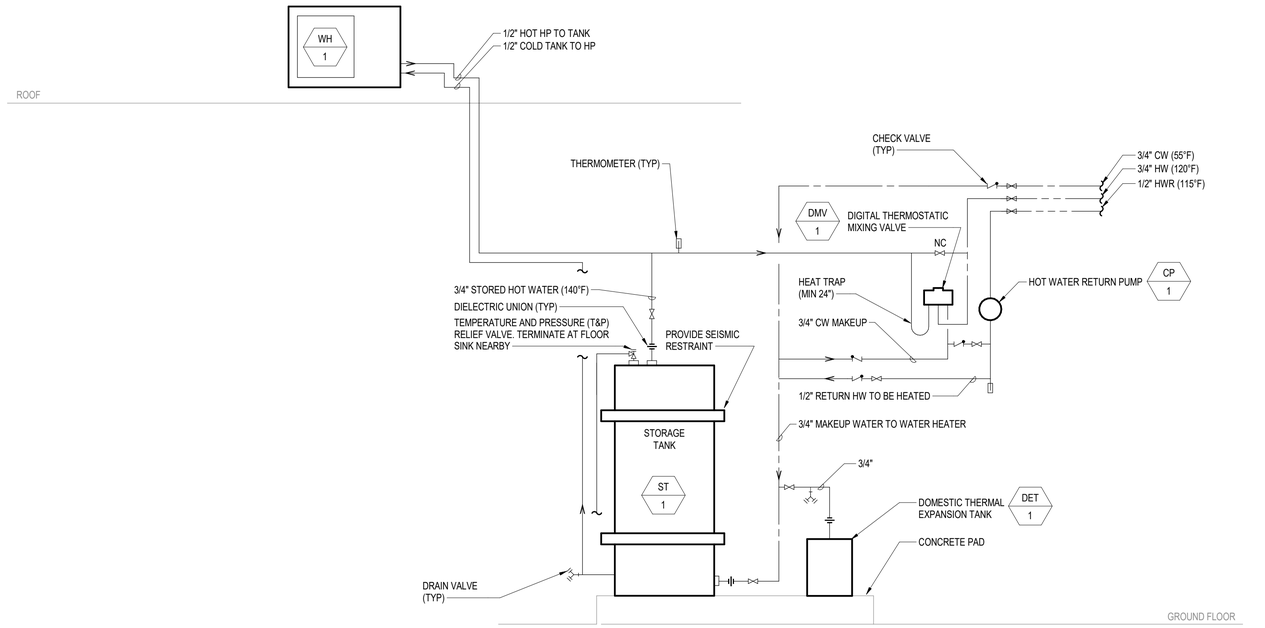
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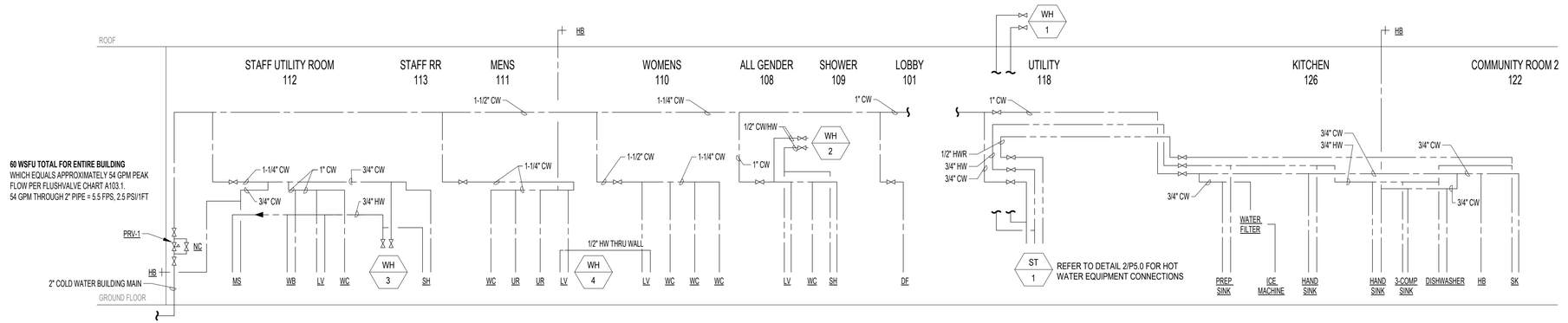
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PLUMBING - LOW ROOF

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2 KITCHEN HEAT PUMP WATER HEATER SYSTEM DIAGRAM
N.T.S.



1 WATER RISER - 7 - BUILDING D SOUTH
N.T.S.

GENERAL NOTES

A. ALL NEW PIPING. NO EXISTING PIPING.

B. UNLESS OTHERWISE NOTED, FOR BRANCHES SERVING MULTIPLE FIXTURES, REFER TO THE PLUMBING FIXTURE ROUGH-IN SCHEDULE AND FOOD SERVICE EQUIPMENT SCHEDULE TO DETERMINE THE REQUIRED BRANCH SIZE. THE LARGEST FIXTURE ROUGH IN SIZE WILL DICTATE THE BRANCH SIZE.

C. WATER SYSTEM SIZED PER CALIFORNIA PLUMBING CODE APPENDIX A.
   a. SEE LONGEST RUN CALCULATION.
   b. 30 PSI MINIMUM (SHOWER HEADS)
   c. 60 PSI MAXIMUM (SET AT PRV)
   d. PIPING SIZED TO LOOSE NO MORE THAN 8 PSI / 100FT (20 PSI OVER MOST REMOTE RUN)
   e. 8 FEET PER SEC MAX VELOCITY.

LONGEST RUN CALCULATION
190 FT HORIZONTAL
30 FT VERTICALP AND DOWN
220 * 1.10 FOR EQUIVALENT LENGTH
242 FT

USE 250 FOR TOTAL EQUIVALENT LENGTH

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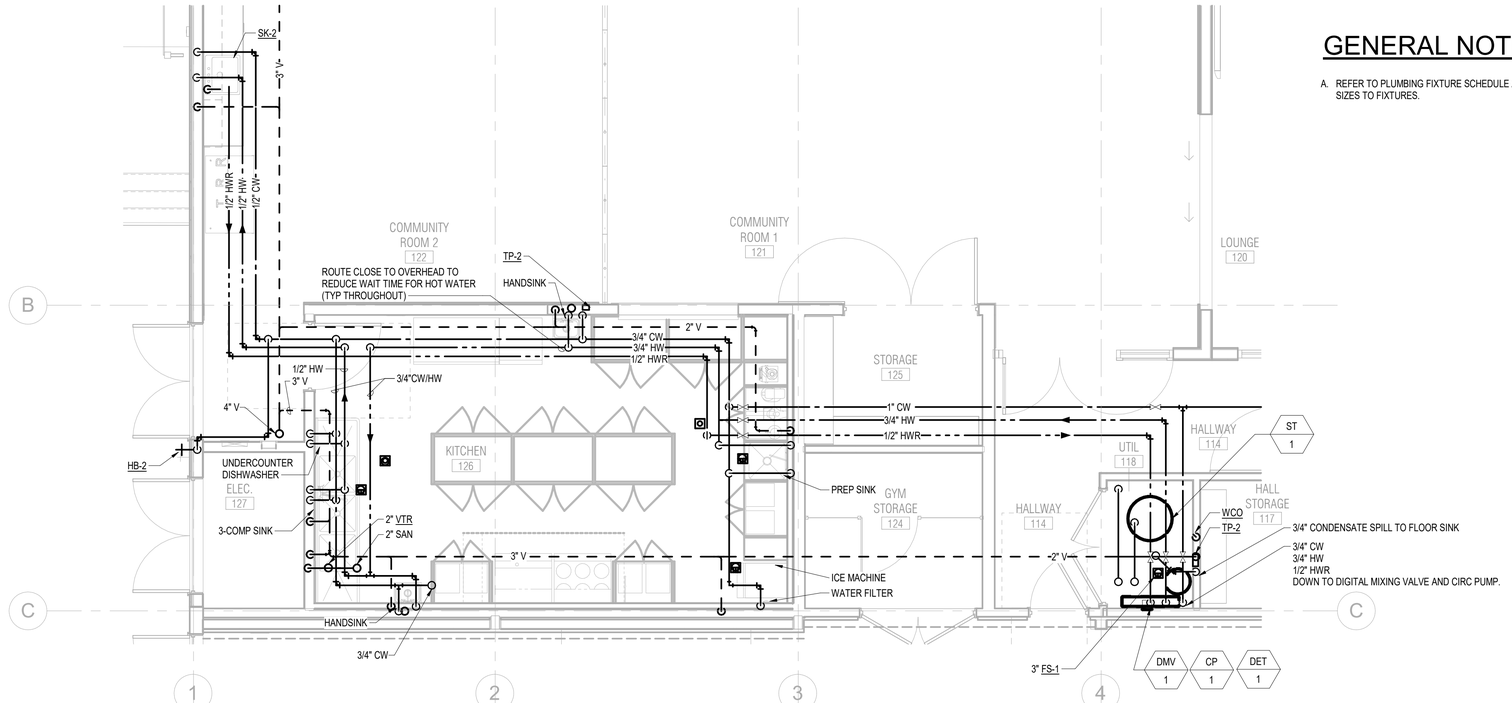
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PLUMBING RISER DIAGRAMS

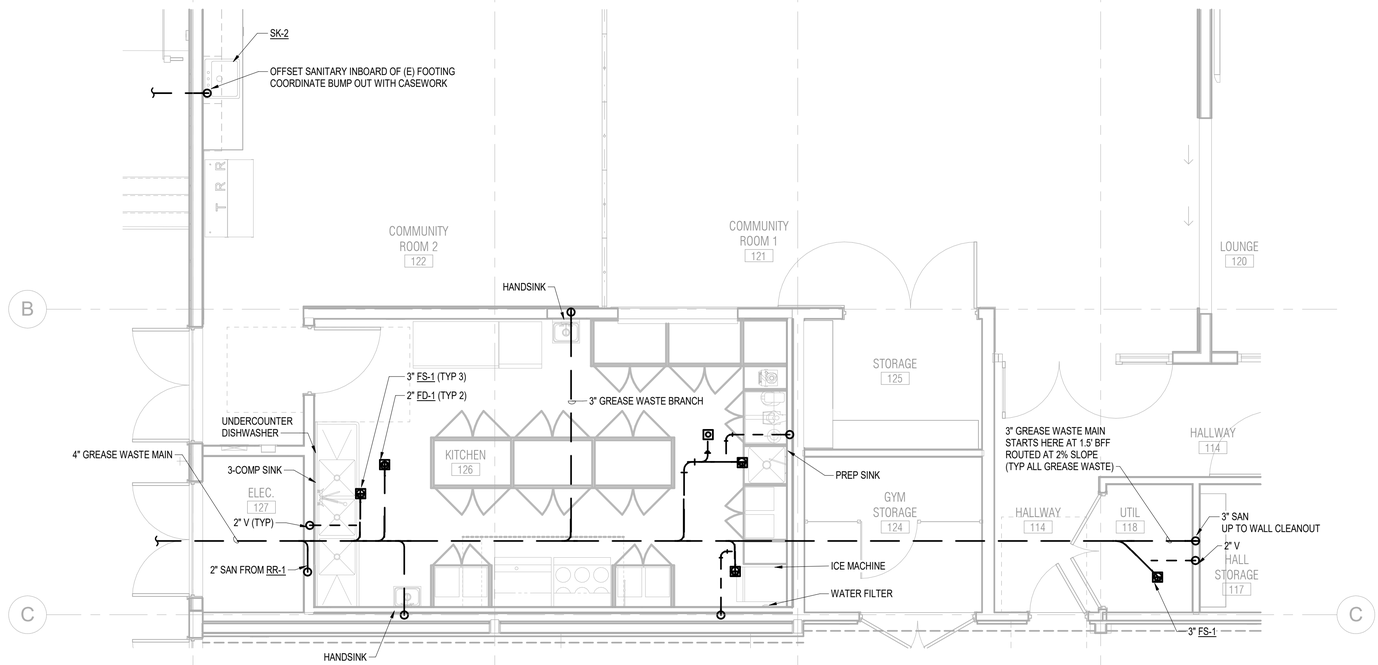
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2 KITCHEN AND COMMUNITY ROOM
1/4" = 1'-0"



1 KITCHEN AND COMMUNITY ROOM - UNDERGROUND
1/4" = 1'-0"

GENERAL NOTES

A. REFER TO PLUMBING FIXTURE SCHEDULE AND RISER DIAGRAMS FOR BRANCH SIZES TO FIXTURES.

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Sheet Title:

PLUMBING ENLARGED - KITCHEN

Sheet No.:

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GENERAL NOTES

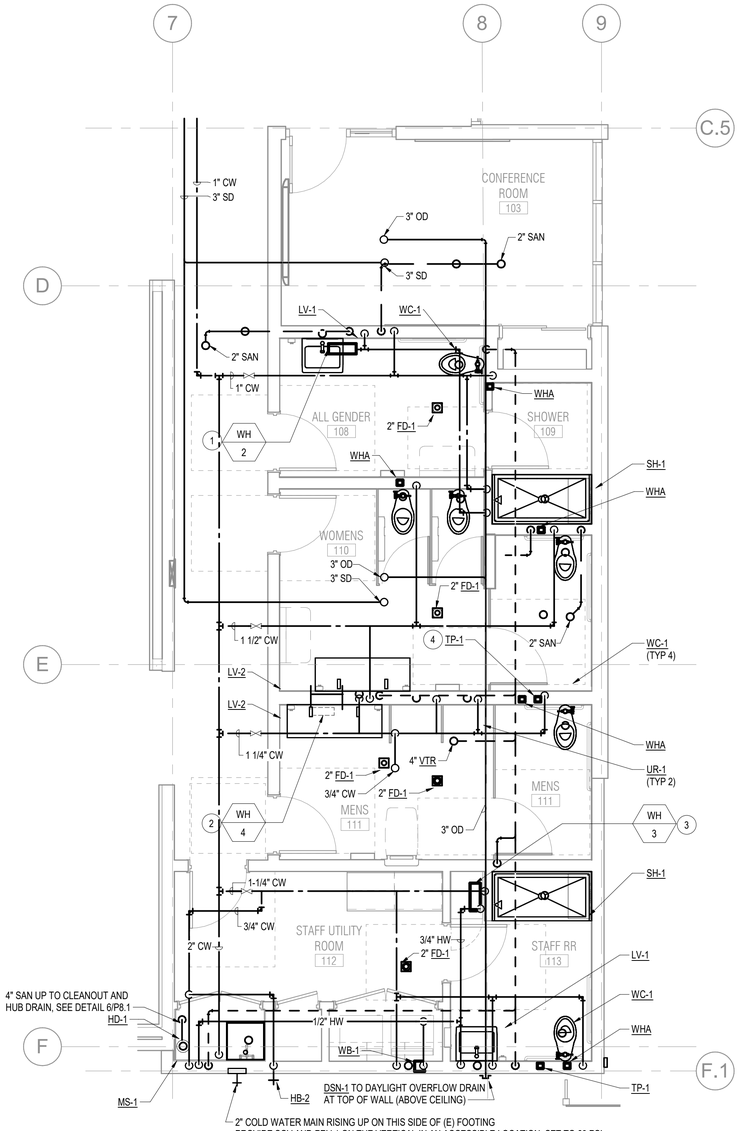
A. REFER TO PLUMBING FIXTURE SCHEDULE FOR BRANCH SIZES TO FIXTURES.

B. PROVIDE 3/4" CW SUPPLY TO WATER HEATER AND 3/4" HW SUPPLY OUT TO NEARBY FIXTURES AS SHOWN. TYPICAL ALL WATER HEATERS. ALL HW BRANCHES ARE 1/2" UNLESS OTHERWISE NOTED (TO REDUCE WAIT TIME FOR HOT WATER WHILE STILL PROVIDING ADEQUATE PRESSURE AT FIXTURES)

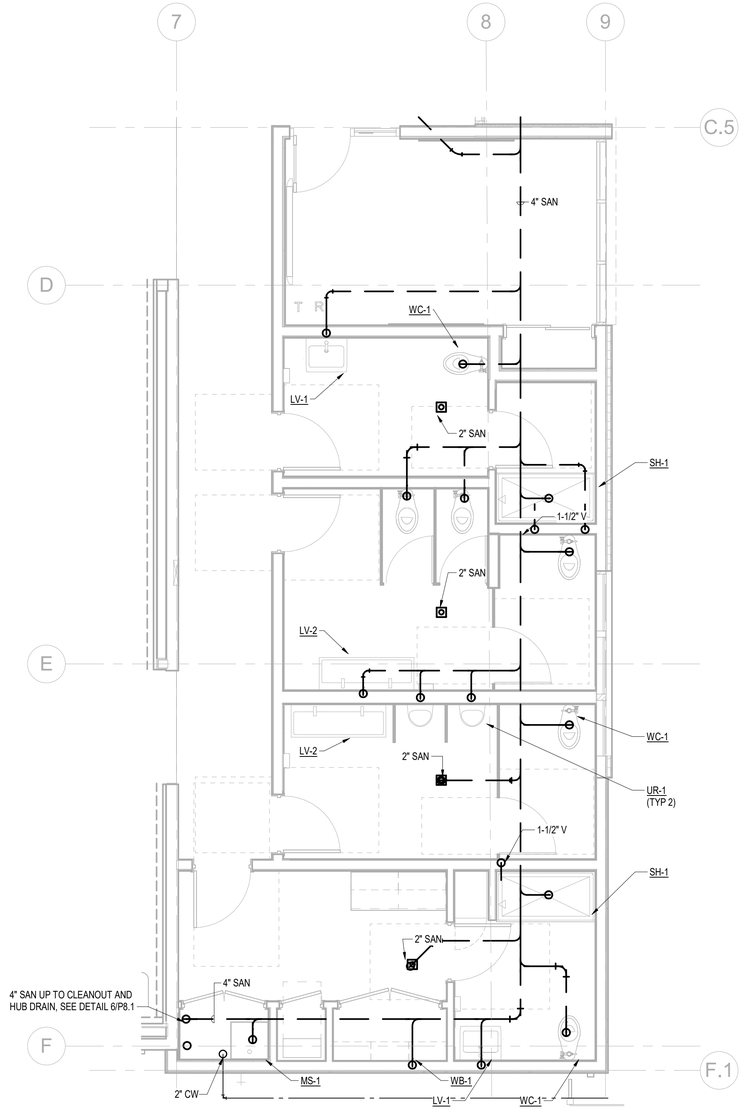
C. PROVIDE SHUTOFF VALVE UPSTREAM AND DOWNSTREAM OF WATER HEATER WITH HOSE VALVE BYPASS CONFIGURATION TO ENABLE FLUSHING OF THE UNITS.

SHEET NOTES

1. ELECTRIC TANKLESS WATER HEATER LOCATED ABOVE CEILING BEHIND ACCESS PANEL.
2. ELECTRIC TANKLESS WATER HEATER LOCATED BELOW LAVATORY. PROVIDE 1/2" HEADER WITHIN WALL TO EACH HW ANGLESTOP.
3. ELECTRIC TANKLESS WATER HEATER LOCATED WITHIN CLOSET.
4. THIS SINGLE TRAP PRIMER SERVES ALL FLOOR DRAINS (FD-1'S) WITHIN 20 FT RADIUS.



2 RESTROOM
1/4" = 1'-0"



1 RESTROOM - UNDERGROUND
1/4" = 1'-0"

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Plot Date:	-
Scale:	1/4" = 1'-0"

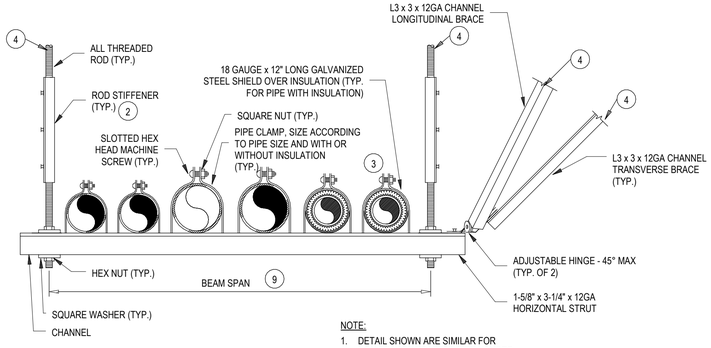
Sheet Title:

PLUMBING ENLARGED - RESTROOMS

Sheet No.:

P6.2

3/7/2025 10:30:49 AM



NOTE:

1. DETAIL SHOWN ARE SIMILAR FOR NON-BRACED TRAPEZE PIPE HANGER SUPPORT WITH BRACING OMITTED.

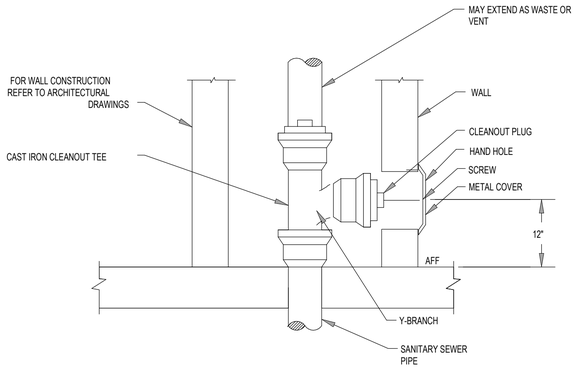
KEY NOTES:

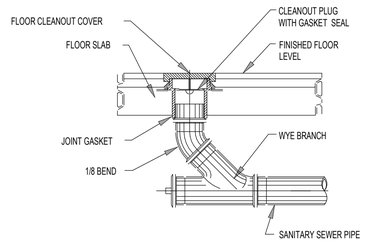
1. ALL PIPE SUPPORTS SHALL BE PIPING TECHNOLOGY & PRODUCTS, INC. OR EQUAL.
2. INSTALL ROD STIFFENER WHEN LENGTH EXCEEDS THE SCHEDULE LENGTH:

MAX. PIPE SIZE, IN.	ROD SIZE, IN.	MAX. ROD LENGTH, IN.
1/2 UP TO 2	3/8	19
3	1/2	25

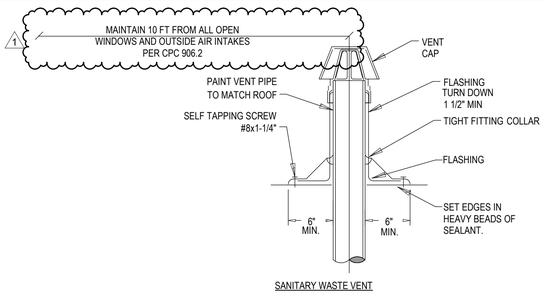
3. PROVIDE NONMETALLIC SEPARATION BETWEEN UNINSULATED COPPER PIPING AND METAL SUPPORTS. PLASTIC COATED OR FELT LINED CLEVIS HANGER. PLASTIC COATED PIPE CLAMP.
4. REFER TO TYPICAL PIPE SUPPORT ATTACHMENTS DETAILS
5. SPACE PIPE HANGERS AND SUPPORTS PER MECHANICAL SPECIFICATION.
6. PROVIDE TRANSVERSE SEISMIC BRACING AT 20'-0" MAX. AND EVERY CHANGE OF DIRECTION.
7. PROVIDE LONGITUDINAL SEISMIC BRACING AT 40'-0" O.C. MAX., MINIMUM OF 2 REQUIRED.
8. BRACE ALL PIPING AND EQUIPMENT TRANSVERSELY AND LONGITUDINALLY ACCORDING TO SMACNA GUIDELINES FOR SEISMIC RESTRAINTS OF MECHANICAL SYSTEM AND PIPING SYSTEM.
9. REFER TO PIPING TECHNOLOGY & PRODUCTS INC. FOR CHANNEL TYPE AND LOAD RATING BASED ON BEAM SPAN FOR UNIFORM AND CONCENTRATED LOADING.
10. REFER TO PIPE HANGER, TRAPEZE AND SEISMIC SUPPORT DETAILS FOR APPLICABLE CONTINUATION.

7 PIPE TRAPEZE DETAIL
NTS

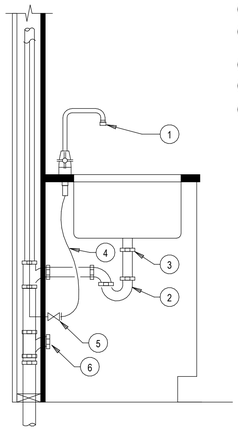




5 CLEANOUTS
NTS



3 VENT THRU ROOF DETAIL
NTS



1. REFER TO P002
2. 1-1/2 "P" TRAP
3. WASTE POINT OF CONNECTION TO SINK TAILPIECE. COORDINATE SOLIDS INTERCEPTOR CLEARANCE WITH ARCHITECT.
4. 1/2" DIAMETER FLEXIBLE CONNECTORS
5. ANGLE STOP SHUT-OFF VALVE
6. WALL CLEANOUT.

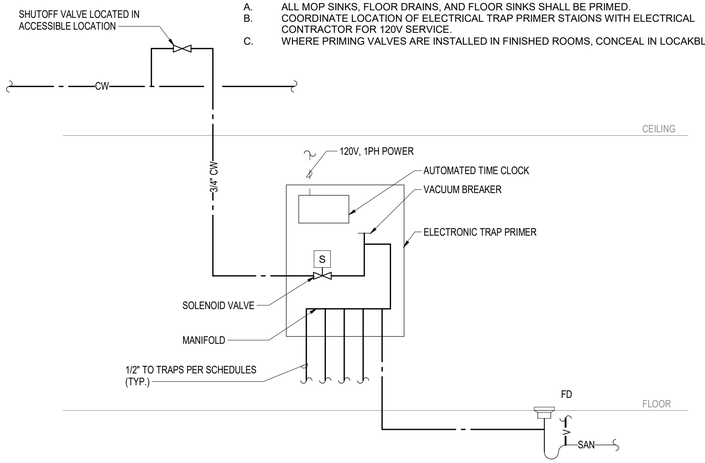
NOTES:

1. SERVICES MAY VARY, REFER TO PLANS & SCHEDULES.
2. PROVIDE SHUT-OFF VALVES OR ANGLE STOPS IN SINK CABINET FOR ICW & IHW SUPPLY TO DESK MOUNTED SERVICE FITTINGS.

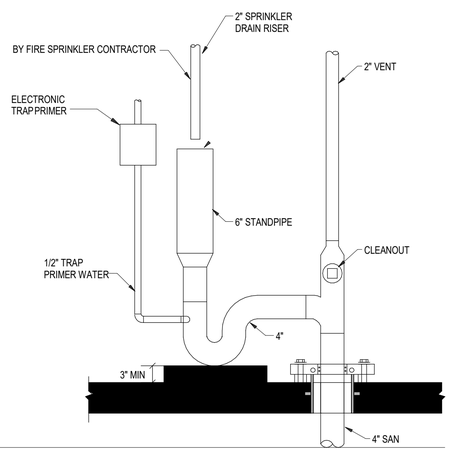
2 SINK DETAIL
NTS

GENERAL NOTES

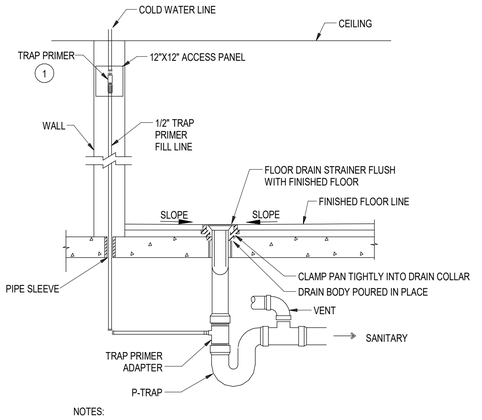
A. ALL MOP SINKS, FLOOR DRAINS, AND FLOOR SINKS SHALL BE PRIMED.
B. COORDINATE LOCATION OF ELECTRICAL TRAP PRIMER STAIONS WITH ELECTRICAL CONTRACTOR FOR 120V SERVICE.
C. WHERE PRIMING VALVES ARE INSTALLED IN FINISHED ROOMS, CONCEAL IN LOCAKBLE CABINET.



4 ELECTRONIC TRAP PRIMER DETAIL
NTS



6 HUB DRAIN
NTS



NOTES:

1. REFER TO SCHEDULES FOR TRAP PRIMER MAKE AND MODEL. INSTALL PER MANUFACTURER'S REQUIREMENTS.

1 FLOOR DRAIN DETAIL
NTS

Project Title:

CITY OF BERKELEY
PARKS, RECREATION & WATERFRONT DEPARTMENT
MLK JR. YOUTH SERVICES CENTER / YAP
SEISMIC RETROFIT AND RENOVATION
1730 Oregon Street, Berkeley, CA 94703
APN#: 053-1676-001-02

Design Firm:
SIEGEL & STRAIN Architects
6201 Doyle Street, Suite B
Emeryville, CA 94608
TEL 510 / 547-8092
info@siegelstrain.com

Consultant:

Stamp:

REGISTERED PROFESSIONAL ENGINEER
MATTHEW DEMGRAM
No. M36987
Exp. 9-30-26
STATE OF CALIFORNIA

No.	Description	Date
	PERMIT SET	12/04/24
1	PLAN CHECK #1	03/07/25

Issue Note: PERMIT RESUBMITTAL 03/07/25

City Plan No.:	8286
City File No.:	402-145
Specification No.:	#25-11695-C
Project ID:	-
Drawn by:	-
Checked by:	-
Plot Date:	-
Scale:	NTS

Sheet Title: PLUMBING DETAILS

Sheet No.: P8.1

3/4/2025 8:42:29 PM

STATE OF CALIFORNIA
Domestic Water Heating System
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-PLB-E
This document is used to demonstrate compliance for nonresidential occupancies with requirements in 110.1, 110.3, 120.3, and 140.5, and with requirements in 141.0 for additions and alterations, for domestic water heating scopes using the prescriptive path. For high-rise residential and hotel/motel occupancies compliance is demonstrated with requirements in 110.1, 110.3, 160.4 and 170.2(d), and with requirements 180.1 for additions and 180.2 for alterations.	
Project Name: MLK JR YOUTH SERVICES CENTER / YAP	**Report Page:** (Page 1 of 9)
Project Address:	**Date Prepared:** 2024-11-18T07:13:03-05:00

A. GENERAL INFORMATION

01	Project Location (city)	Berkeley, CA	02	Climate Zone	3
03	Occupancy Types Within Project (select all that apply):				

● Sports Arena

B. PROJECT SCOPE

This table includes domestic water heating systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive paths outlined in 140./170.2(d) and 141.0(a)/ 180.1, or 141.0(b)2N / 180.2 for additions or alterations. Solar water heating systems are documented on the NRCC-SAB compliance document. Combined hydronic water heating systems are documented on the NRCC-MCH compliance document.

01	02	03		
My project consists of (check all that apply):	System Type[1,2]	System Components		
☒ New system (DHW system being installed for the first time)	Individual System (serving nonresidential spaces)	☒ Equipment	☒ Distribution	☒ Controls
☒ New system (DHW system being installed for the first time)	Central System (serving nonresidential spaces)	☒ Equipment	☒ Distribution	☒ Controls
☐ System Alteration (equipment, distribution or controls)		☐ Equipment	☐ Distribution	☐ Controls

[1] *FOOTNOTES: Point of use water heaters, or other non-central systems used to serve nonresidential spaces, are considered individual systems.*
[2] *Dwelling units refers to hotel/motel guest rooms and units in a multifamily residential occupancy.*
[3] *DHW systems serving 2 or more dwelling units are considered "Central Systems" for multifamily occupancies*

C. COMPLIANCE RESULTS

Table C will indicate if the project data input into the compliance document is compliant with water heating requirements. If this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D. or the table indicated as not compliant for guidance.

01	02	03	04
Domestic Hot Water Equipment	Distribution Systems	Controls	**Compliance Results**
Table F	Table G	Table H	
Yes	Yes	Yes	COMPLIES

D. EXCEPTIONAL CONDITIONS

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

STATE OF CALIFORNIA
Domestic Water Heating System
CALIFORNIA ENERGY COMMISSION
CERTIFICATE OF COMPLIANCE NRCC-PLB-E
Project Name: MLK JR YOUTH SERVICES CENTER / YAP Report Page: (Page 2 of 9)
Date Prepared: 2024-11-18T07:13:03-05:00

E. ADDITIONAL REMARKS

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

STATE OF CALIFORNIA
Domestic Water Heating System
CALIFORNIA ENERGY COMMISSION
CERTIFICATE OF COMPLIANCE NRCC-PLB-E
Project Name: MLK JR YOUTH SERVICES CENTER / YAP Report Page: (Page 3 of 9)
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F. DOMESTIC HOT WATER EQUIPMENT

This table is used to demonstrate compliance with mandatory equipment requirements in 110.1 and 110.3. Compliance with prescriptive requirements in 140.5(c) / 170.2(d) must also be demonstrated and with 141.0 / 180.1/ 180.2 for addition and alteration scopes.

Equipment Schedule: Water Heating Efficiency and Standby Loss

03	04		05		06		
System Name	COMMERCIAL KITCHEN WATER HEATING SYSTEM	Exception to 140.5(c)/ 170.2(d)3	Exceptions Do Not Apply	☐	Gas Service Water Heating System >= 1MMBtu/h[1]	Capacity-weighted Average Efficiency %	
07	08	09	10	11	12	13	14	15
Name or Item Tag	Equipment Type	Volume (gal)	Rated Input Capacity (Btu/h)	Max GPM/ First Hour Rating (FHR)	Rated Efficiency	Minimum Efficiency Required	Efficiency Unit	Designed Standby Loss	Maximum Standby Loss
WH-1	Heat Pump Water Heater								

03	04		05		06		
System Name	RESTROOM WATER HEATING SYSTEM	Exception to 140.5(c)/ 170.2(d)3	Exceptions Do Not Apply	☐	Gas Service Water Heating System >= 1MMBtu/h[1]	Capacity-weighted Average Efficiency %	
07	08	09	10	11	12	13	14	15

Generated Date/Time: Documentation Software: Energy Code Ace
CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Schema Version: rev 20220101 Compliance ID: 241127-1124-0003 Report Generated: 2024-11-18 04:13:04

STATE OF CALIFORNIA
Domestic Water Heating System
CALIFORNIA ENERGY COMMISSION
CERTIFICATE OF COMPLIANCE NRCC-PLB-E
Project Name: MLK JR YOUTH SERVICES CENTER / YAP Report Page: (Page 4 of 9)
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F. DOMESTIC HOT WATER EQUIPMENT

Name or Item Tag	Equipment Type	Volume (gal)	Rated Input Capacity (Btu/h)	Max GPM/ First Hour Rating (FHR)	Rated Efficiency	Minimum Efficiency Required	Efficiency Unit	Designed Standby Loss	Maximum Standby Loss
WH-2	Residential-Duty Commercial Electric Instantaneous (12-58.6kW)	<=2		0 <= GPM <1.7	0.99	0.8	UEF		
WH-3	Residential-Duty Commercial Electric Instantaneous (12-58.6kW)	<=2		0 <= GPM <1.7	0.99	0.8	UEF		
WH-4	Consumer Rated Electric Instantaneous (<=12kW)	<=2		0 <= GPM <1.7	0.99	0.91	UEF		

[1] *FOOTNOTE: In systems >= 1MMBtu/h with multiple units, gas water heaters with input capacity > 100,000 Btu/h may meet 90% Et requirements via an input capacity-weighted average.*
[2] *FOOTNOTE: Compliant equipment may be found in the Modernized Appliance Efficiency Database System (MAEDBS) on the Energy Commission website: https://cocertappliances.energy.ca.gov/Pages/Search/AdvancedSearch.aspx*

Water Heating Equipment All Occupancies

	Yes	No	Not Applicable	Requirement
18	☒	☐	☐	Unfired storage tank insulation shall have Internal + External >=R-16 OR External >=R-3.5. Label required per 110.3(c)3
19	☐	☐	☒	New state buildings 60% of energy for service water heating from site solar energy or recovered energy per 110.3(c)5
20	☒	☐	☐	Isolation valves for instantaneous water heater with input rating >6.8 kBTUH or 2 kW has been specified per 110.3(c)6
21	☐	☐	☒	School buildings < 25,000 ft^2 and < 4 stories must install a heat pump water heating system per 140.5(a)1. Water heating systems serving an individual bathroom space may be an instantaneous electric water heater.

Generated Date/Time: Documentation Software: Energy Code Ace
CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Schema Version: rev 20220101 Compliance ID: 241127-1124-0003 Report Generated: 2024-11-18 04:13:04

STATE OF CALIFORNIA
Domestic Water Heating System
CALIFORNIA ENERGY COMMISSION
CERTIFICATE OF COMPLIANCE NRCC-PLB-E
Project Name: MLK JR YOUTH SERVICES CENTER / YAP Report Page: (Page 5 of 9)
Date Prepared: 2024-11-18T07:13:03-05:00

G. DOMESTIC HOT WATER DISTRIBUTION SYSTEM

This table is used to demonstrate compliance for nonresidential occupancies with distribution requirements in 120.3 and 140.5. For multifamily and hotel/motel occupancies, compliance is demonstrated with requirements 110.3(c), 160.4, 170.2(d).

Recirculation Loops in Central Systems Serving Dwelling Units or Nonresidential Spaces

	Yes	No	Not Applicable	Requirement
01	●	○	○	Air release valve or vertical pump installation per 110.3(c)4A
02	●	○	○	Check valve or similar located between recirculation pump and water heating equipment to prevent backflow per 110.3(c)4B
03	○	○	●	Hose bibb installed between pump and equipment and isolation valve between hose bibb and equipment per 110.3(c)4C
04	●	○	○	Isolation valves on both sides of the pump per 110.3(c)4D
05	●	○	○	Cold water and recirculation loop piping shall not be connected to the hot water storage tank drain port per 110.3(c)4E
06	●	○	○	Check valve installed on cold water supply between hot water system and next closest tee on cold water supply per 110.3(c)4F
07	○	○	●	DWELLING UNITS ONLY: For central systems serving multiple dwelling units, design includes a recirculation system serving separate dwelling units per 170.2(d) unless building has <=8 dwelling units.
08	○	○	●	DWELLING UNITS ONLY: For heat pump water heating systems, the hot water return from the recirculation loop shall connect to a recirculation loop tank and shall not directly connect to the primary heat pump water heater inlet or the primary thermal storage tanks per 170.2(d)2A.
09	○	○	●	DWELLING UNITS ONLY: For heat pump water heating systems, the fuel source for the recirculation loop tank shall be electricity if auxiliary heating is needed. The recirculation loop heater shall be capable of multi-pass water heating operation per 170.2(d)2B.

Generated Date/Time: Documentation Software: Energy Code Ace
CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Schema Version: rev 20220101 Compliance ID: 241127-1124-0003 Report Generated: 2024-11-18 04:13:04

STATE OF CALIFORNIA
Domestic Water Heating System
CALIFORNIA ENERGY COMMISSION
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Project Name: MLK JR YOUTH SERVICES CENTER / YAP Report Page: (Page 6 of 9)
Date Prepared: 2024-11-18T07:13:03-05:00

G. DOMESTIC HOT WATER DISTRIBUTION SYSTEM

Mandatory Pipe Insulation All Occupancies

13	☐	For systems serving dwelling units, pipe insulation must meet the minimum insulation requirements in Table 160.4-A (see blow) except: • Piping that penetrates framing members shall not be required to have pipe insulation for the distance of the framing penetration. Piping that penetrates metal framing shall use grommets, plugs, wrapping or other insulating material to assure that no contact is made with the metal framing. Insulation shall abut securely against all framing members • Piping installed in interior or exterior walls shall not be required to have pipe insulation if all of the requirements are met for compliance with Quality Insulation Installation (QII) as specified in the Reference Residential Appendix RA3.5. • Piping surrounded with a minimum of 1 inch of wall insulation, 2 inches of crawlspace insulation, or 4 inches of attic insulation, shall not be required to have pipe insulation.
14	☒	For systems serving nonresidential spaces, pipe insulation for the following applications is specified to comply with Table 120.3-A (see below) per 120.3: • Recirculating system piping, including supply and return piping of the water heater • The first 8 ft of hot and cold outlet piping, including between storage tank and heat trap, for a nonrecirculating storage system • Pipes that are externally heated
15	☒	Insulation shall be protected from damage, including that due to sunlight, moisture, equipment maintenance, and wind. Insulation exposed to weather shall be installed with a cover suitable for outdoor service per 120.3(b) / 160.4(f). Pipe insulation buried below grade must be installed in a water proof and non-crushable casing or sleeve.

TABLE 120.3-A / 160.4-A PIPE INSULATION THICKNESS

Fluid Temperature Range (°F)	Conductivity Range (Btu-in per hour per ft^2 per °F)	Insulation Mean Rating Temp (°F)	Nominal Pipe Diameter (in)			
			< 1	1 to < 1.5	1.5 to < 4	1.5 to < 4 Multifamily & Hotel/Motel
			Minimum Insulation Required			
105-140	0.22 - 0.28	100	1.0 in or R-7.7	1.5 in or R-12.5	1.5 in or R-11	2.0 in or R-16

Generated Date/Time: Documentation Software: Energy Code Ace
CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Schema Version: rev 20220101 Compliance ID: 241127-1124-0003 Report Generated: 2024-11-18 04:13:04

STATE OF CALIFORNIA
Domestic Water Heating System
CALIFORNIA ENERGY COMMISSION
CERTIFICATE OF COMPLIANCE NRCC-PLB-E
Project Name: MLK JR YOUTH SERVICES CENTER / YAP Report Page: (Page 7 of 9)
Date Prepared: 2024-11-18T07:13:03-05:00

H. DOMESTIC HOT WATER CONTROLS

This table is used to demonstrate compliance with control requirements in 110.3 for all occupancies. For multifamily residential and hotel/motel occupancies, compliance is also demonstrated with requirements in 160.4(e) / 170.2(d).

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

Generated Date/Time: Documentation Software: Energy Code Ace
CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Schema Version: rev 20220101 Compliance ID: 241127-1124-0003 Report Generated: 2024-11-18 04:13:04

STATE OF CALIFORNIA
Domestic Water Heating System
CALIFORNIA ENERGY COMMISSION
CERTIFICATE OF COMPLIANCE NRCC-PLB-E
Project Name: MLK JR YOUTH SERVICES CENTER / YAP Report Page: (Page 8 of 9)
Date Prepared: 2024-11-18T07:13:03-05:00

I. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

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

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

J. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

There are no forms required for this project.

K. DECLARATION OF REQUIRED CERTIFICATES OF VERIFICATION

There are no forms required for this project.

Generated Date/Time: Documentation Software: Energy Code Ace
CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Schema Version: rev 20220101 Compliance ID: 241127-1124-0003 Report Generated: 2024-11-18 04:13:04

STATE OF CALIFORNIA
Domestic Water Heating System
CALIFORNIA ENERGY COMMISSION
CERTIFICATE OF COMPLIANCE NRCC-PLB-E
Project Name: MLK JR YOUTH SERVICES CENTER / YAP Report Page: (Page 9 of 9)
Project Address: Date Prepared: 2024-11-18T07:13:03-05:00

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

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

Documentation Author Name:	Stefan Gracik	Documentation Author Signature:	Stefan Gracik
Company:	Alter Consulting Engineers	Signature Date:	11/22/2024
Address:	66 Franklin St Ste 300	CEA/ HERS Certification Identification (if applicable):	
City/State/Zip:	Oakland, CA 94607	Phone:	510-474-0379

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 provides to the building owner at occupancy.

Responsible Designer Name:	Matthew Dehghani	Responsible Designer Signature:	Matthew Dehghani
Company:	Alter Consulting Engineers	Date Signed:	11/22/2024
Address:	66 Franklin St Ste 300	License:	36987
City/State/Zip:	Oakland, CA 94607	Phone:	510-474-0379

Generated Date/Time: Documentation Software: Energy Code Ace
CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Schema Version: rev 20220101 Compliance ID: 241127-1124-0003 Report Generated: 2024-11-18 04:13:04

Project Title:

CITY OF BERKELEY
PARKS, RECREATION & WATERFRONT DEPARTMENT
MLK JR. YOUTH SERVICES CENTER / YAP SEISMIC RETROFIT AND RENOVATION
1730 Oregon Street, Berkeley, CA 94703
APN#: 053-1676-001-02

Design Firm:

SIEGEL & STRAIN Architects
6201 Doyle Street, Suite B
Emeryville, CA 94608
TEL 510 / 547-8092
info@siegelstrain.com

Consultant:

Stamp:

REGISTERED PROFESSIONAL ENGINEER
MATTHEW DEHGHANI
No. M36987
Exp. 9-30-26
STATE OF CALIFORNIA

No.	Description	Date
	PERMIT SET	12/04/24

Issue Note: PERMIT RESUBMITTAL 03/07/25

City Plan No.:	8286
City File No.:	402-145
Specification No.:	#25-11695-C
Project ID:	-
Drawn by:	-
Checked by:	-
Plot Date:	-
Scale:	

Sheet Title:

TITLE 24

Sheet No.:

P9.1

3/4/2025 8:42:29 PM

ANCHORAGE NOTES

ELECTRICAL ANCHORAGE NOTES:

ALL ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA APPROVED CONSTRUCTION DOCUMENTS. THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2022 CBC SECTIONS 1617A.1.18 THROUGH 1617A.1.26 AND ASCE 7-16, CHAPTER 13, 26, AND 30.

1. ALL PERMANENT EQUIPMENT AND COMPONENTS.
2. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT THAT IS PERMANENTLY ATTACHED (e.g. HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS OR WATER. "PERMANENTLY ATTACHED" SHALL INCLUDE ALL ELECTRICAL CONNECTIONS EXCEPT PLUGS FOR 110/220 VOLT RECEPTACLES HAVING A FLEXIBLE CABLE.
3. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT WHICH IS HEAVIER THAN 400 POUNDS OR HAS A CENTER OF MASS LOCATED 4 FEET OR MORE ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT IS REQUIRED TO BE RESTRAINED IN A MANNER APPROVED BY DSA.

THE FOLLOWING ELECTRICAL COMPONENTS SHALL BE BE POSITIVELY ATTACHED TO THE STRUCTURE, BUT NEED NOT DEMONSTRATE DESIGN COMPLIANCE WITH THE REFERENCES NOTED ABOVE. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED CONDUIT. FLEXIBLE CONNECTIONS MUST ALLOW MOVEMENT IN BOTH TRANSVERSE AND LONGITUDINAL DIRECTIONS.

A. COMPONENT WEIGHING LESS THAN 400 POUNDS AND HAVING A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT.
B. COMPONENTS WEIGHING LESS THAN 20 POUNDS, OR IN THE CASE OF DISTRIBUTED SYSTEMS, LESS THAN 5 POUNDS PER FOOT, WHICH ARE SUSPENDED FROM A ROOF OR FLOOR OR HUNG FROM WALL.

THE ANCHORAGE OF ALL ELECTRICAL COMPONENTS SHALL BE SUBJECT TO THE APPROVAL OF THE DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE OR STRUCTURAL ENGINEER DELEGATED RESPONSIBILITY AND ACCEPTANCE BY DSA. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH THE ABOVE REQUIREMENTS.

ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTE:

ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-16 SECTION 13.3 AS DEFINED IN ASCE 7-16 SECTION 13.6.5, 13.6.6, 13.6.7, 13.6.8, AND 2022 CBC, SECTIONS 1617A.1.24, 1617A.1.25, AND 1617A.1.26.

THE METHOD OF SHOWING BRACING AND ATTACHMENTS TO THE STRUCTURE FOR THE IDENTIFIED DISTRIBUTION SYSTEM ARE AS NOTED BELOW. WHEN BRACING AND ATTACHMENTS ARE BASED ON A PREAPPROVED INSTALLATION GUIDE (eg., HCAi OPM FOR 2013 CBC OR LATER), COPIES OF THE BRACING SYSTEM INSTALLATION GUIDE OR MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO THE START OF AND DURING THE HANGING AND BRACING OF THE DISTRIBUTION SYSTEMS. THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS.

ELECTRICAL DISTRIBUTION SYSTEMS ARE:
[X] - OPTION 1: DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS.
[ ] - OPTION 2: SHALL COMPLY WITH THE APPLICABLE OSHPD PRE-APPROVAL (OPM #).

LIGHT FIXTURES:

1.7 LUMINAIRES

1.7.1 ALL LUMINAIRES SHALL BE POSITIVELY ATTACHED TO THE CEILING SUSPENSION SYSTEMS BY MECHANICAL MEANS PER CALIFORNIA ELECTRICAL CODE (CEC) ARTICLE 410.36. A MINIMUM OF TWO SCREWS OR APPROVED FASTENERS CAPABLE OF RESISTING A HORIZONTAL FORCE EQUAL TO THE WEIGHT OF THE FIXTURE ARE REQUIRED AT EACH LIGHT FIXTURE, PER ASTM E580 SECTION 5.3.1. SEE SECTION 2.1.1 BELOW FOR PENDANT LUMINAIRES.

1.7.2 SURFACE-MOUNTED LUMINAIRES SHALL BE ATTACHED TO THE MAIN RUNNER WITH AT LEAST TWO POSITIVE CLAMPING DEVICES ON EACH FIXTURE. THE CLAMPING DEVICE SHALL COMPLETELY SURROUND THE SUPPORTING CEILING RUNNER AND BE MADE OF STEEL WITH A MINIMUM THICKNESS OF #14-GAUGE. ROTATIONAL SPRING CATCHES DO NOT COMPLY. A #12-GAUGE SLACK SAFETY WIRE SHALL BE CONNECTED FROM EACH CLAMPING DEVICE TO THE STRUCTURE ABOVE. PROVIDE ADDITIONAL SUPPORTS WHEN LUMINAIRES MEASURE 8-FEET OR LONGER OR EXCEED 56 POUNDS. MAXIMUM SPACING BETWEEN SUPPORTS SHALL NOT EXCEED 8-FEET.

1.7.3 LUMINAIRES WEIGHING LESS THAN OR EQUAL TO 10 POUNDS MAY BE SUPPORTED DIRECTLY ON THE CEILING RUNNERS, BUT THEY SHALL HAVE A MINIMUM OF ONE #12-GAUGE SLACK SAFETY WIRE CONNECTED FROM THE LUMINAIRE HOUSING TO THE STRUCTURE ABOVE.

1.7.4 LUMINAIRES WEIGHING GREATER THAN 10 POUNDS BUT LESS THAN OR EQUAL TO 56 POUNDS MAY BE SUPPORTED DIRECTLY ON THE CEILING RUNNERS, BUT THEY SHALL HAVE A MINIMUM OF TWO # 12-GAUGE SLACK SAFETY WIRES CONNECTED FROM THE LUMINAIRE HOUSING AT DIAGONAL CORNERS TO THE STRUCTURE ABOVE.

EXCEPTION: ALL LUMINAIRES GREATER THAN 2-FEET WIDE BY 4-FEET LONG AND NO MORE THAN 8-FEET LONG WEIGHING LESS THAN 56 POUNDS SHALL HAVE A #12-GAUGE SLACK SAFETY WIRE AT EACH CORNER.

1.7.5 ALL LUMINAIRES WEIGHING GREATER THAN 56 POUNDS SHALL BE INDEPENDENTLY SUPPORTED BY NOT LESS THAN FOUR TAUT #12-GAUGE HANGER WIRES (ONE AT EACH CORNER) ATTACHED FROM THE LUMINAIRE HOUSING TO THE STRUCTURE ABOVE OR OTHER APPROVED HANGERS.

GENERAL DEMOLITION NOTES

1. THE CONTRACTOR SHALL VERIFY IN THE FIELD ALL LINES, LEVELS, DIMENSIONS AND EXISTING CONDITIONS. THE INFORMATION ON THE DRAWINGS REGARDING EXISTING ELECTRICAL EQUIPMENT AND BRANCH CIRCUITS IS THE RESULT OF FIELD SURVEY AND IS ACCURATE TO THE BEST OF OUR KNOWLEDGE. IT IS INTENDED, HOWEVER, AS A GUIDE FOR USE IN VERIFICATION ONLY.
2. ANY EXISTING ELECTRICAL EQUIPMENT IN THE AREA OF NEW CONSTRUCTION NOT SHOWN ON THE EXISTING PLANS SHALL BE DOCUMENTED AND SUBMITTED TO THE ENGINEER FOR DETERMINATION OF ACTION REQUIRED.
3. WHEREVER THE REMOVAL OF EXISTING ELECTRICAL EQUIPMENT IS CALLED FOR AND ALL EQUIPMENT ON A PARTICULAR BRANCH CIRCUIT IS TO BE REMOVED, ALL CONDUIT AND WIRE BACK TO THE PANEL SHALL BE ENTIRELY REMOVED AND THE CIRCUIT IN PANEL SHALL BE MARKED "SPARE". THIS APPLIES TO SIGNAL AND COMMUNICATIONS SYSTEMS EQUIPMENT, CONDUIT, AND WIRE AS WELL.
4. WHEREVER THE REMOVAL OF EXISTING ELECTRICAL EQUIPMENT IS CALLED FOR AND ALL EQUIPMENT ON A PARTICULAR BRANCH CIRCUIT IS NOT TO BE REMOVED, THE CIRCUIT SHALL BE MAINTAINED CONTINUOUS TO THE EXISTING EQUIPMENT IN USE WITH MINIMUM INTERRUPTIONS OF POWER. THIS APPLIES TO SIGNAL AND COMMUNICATIONS SYSTEMS EQUIPMENT, CONDUIT, AND WIRE AS WELL.
5. WHENEVER THE REMOVAL OF EXISTING CONSTRUCTION REVEALS ELECTRICAL WORK THAT IS TO REMAIN, BUT IS IN CONFLICT WITH NEW CONSTRUCTION, RELOCATE THE EXISTING ELECTRICAL WORK AS NECESSARY TO AVOID ANY CONFLICT. RELOCATION WORK SHALL BE DONE TO MINIMIZE ANY INTERRUPTIONS OF POWER.
6. CARE SHALL BE TAKEN IN ORDER TO IDENTIFY AND PROTECT ALL EXISTING ELECTRICAL WORK THAT IS TO REMAIN.
7. ENSURE RECONNECTION OF EXISTING DEVICES WHOSE CIRCUITS HAVE BEEN INTERRUPTED BY DEMOLITION BY PROVIDING NEW CONNECTION TO ANOTHER EXISTING TO REMAIN DEVICE OR PANEL.
8. ALL EXISTING ELECTRICAL EQUIPMENT SHOWN ON THE PLANS FOR NEW WORK ARE THOSE WHICH ARE TO BE REUSED DURING SOME PHASE OF THE NEW CONSTRUCTION OR REQUIRE SOME SPECIAL CONSIDERATIONS.
9. WHENEVER THE REMOVAL OF EXISTING ELECTRICAL PANELBOARDS ARE CALLED FOR AND ALL EXISTING BRANCH CIRCUITS ARE NOT TO BE REMOVED, THE EXISTING BRANCH CIRCUITS SHALL BE CONNECTED TO OTHER EXISTING ELECTRICAL EQUIPMENT OR PANELS STILL IN USE WITH MINIMUM INTERRUPTIONS OF POWER. ALSO, IF REQUIRED, THESE SAME BRANCH CIRCUITS SHALL BE RECONNECTED TO RELOCATED EXISTING OR NEW PANELBOARDS AS PART OF THE NEW CONSTRUCTION. THIS APPLIES TO SIGNAL AND COMMUNICATIONS SYSTEMS EQUIPMENT, CONDUIT AND WIRE AS WELL.
10. THE ELECTRICAL CONTRACTOR SHALL REVISE EXISTING PANEL SCHEDULES TO CORRESPOND TO ACTUAL CONDITIONS AFTER ALL DEMOLITION AND NEW WORK IS COMPLETED.
11. REMOVE ALL ABANDONED CONDUIT AND WIRE ABOVE CEILINGS.
12. WHEN ELECTRICAL EQUIPMENT OR DEVICE IS REMOVED FROM AN EXISTING WALL OR CEILING WHICH IS TO REMAIN, PATCH ABANDONED OPENINGS TO MATCH EXISTING FINISH.
13. IN GENERAL, THE DEMOLITION PLANS SHOW ALL EXISTING EQUIPMENT THAT IS TO BE REMOVED UNLESS NOTED OTHERWISE. HOWEVER, ELECTRICAL EQUIPMENT, WHETHER SHOWN ON THIS DRAWING OR NOT, WHERE LOCATED IN THE AREA SCHEDULED TO BE DEMOLISHED, SHALL BE REMOVED COMPLETELY (INCLUDING CONDUIT AND WIRES BACK TO THE LAST REMAINING FIXTURE, OUTLET, DEVICE, ETC.) UNLESS OTHERWISE NOTED. COORDINATE DEMOLITION WORK WITH ARCHITECT AND GENERAL CONTRACTOR.
14. EXISTING CONDUIT FEEDS UP THROUGH FLOOR SHALL BE CUT OFF AND PLUGGED FLUSH WITH FLOOR WHERE EXISTING WALLS, ETC., ARE REMOVED. REMOVE CONDUCTORS FROM THE POINT BACK TO LAST OUTLET REMAINING IN SERVICE.
15. IT SHALL BE THE RESPONSIBILITY OF THIS CONTRACTOR TO MAINTAIN CONTINUITY OF ALL ELECTRICAL SYSTEMS, EQUIPMENT, ETC. REMAINING IN OPERATION WHICH IS BEING FED BY AN ABANDONED OUTLET. MAINTAINING CONTINUITY SHALL CONSIST OF REROUTING OF CONDUIT, WIRE, ETC. AS REQUIRED.
16. IT SHALL BE THIS CONTRACTOR'S RESPONSIBILITY TO VERIFY LOCATIONS OF EXISTING CIRCUITS AND ADJUST CIRCUIT NUMBERS ACCORDING TO EXISTING CONDITIONS IF REQUIRED
17. THE ELECTRICAL CONTRACTOR SHALL COORDINATE WITH THE OWNER PRIOR TO REMOVAL OF EXISTING ELECTRICAL EQUIPMENT AND TURN OVER REMOVED EQUIPMENT THAT THE OWNER REQUESTS, IN AS-FOUND CONDITION. EQUIPMENT THAT IS TO BE TURNED OVER SHALL BE BOXED AND TAGGED TO IDENTIFY THE SPECIFIC EQUIPMENT. EQUIPMENT TO BE TEMPORARILY REMOVED DUE TO THE CONSTRUCTION SHALL BE CLEANED AND RE-INSTALLED IN ITS ORIGINAL CONDITION OR AS REQUIRED.
18. WHERE EXISTING WALLS HAVE BEEN REMOVED, AND THERE ARE EXISTING CONDUIT FEEDS WHICH HAVE BEEN CUT OFF AND CAPPED FLUSH WITH THE FLOOR, IT IS THE CONTRACTOR'S RESPONSIBILITY TO IDENTIFY AND DIMENSION ALL SUCH CONDUITS ON THE "AS-BUILT" DRAWINGS.
19. IF ANY EQUIPMENT THAT IS SCHEDULED TO REMAIN IN OPERATION IS DAMAGED BY THE CONTRACTOR, IT SHALL BE REPLACED TO ITS ORIGINAL CONDITION SATISFACTORY TO THE OWNER AT CONTRACTOR'S EXPENSE.

ABBREVIATIONS

AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
C	CONDUIT
CATV	CABLE TV
CB	CIRCUIT BREAKER
CO	CONDUIT ONLY
CU	COPPER
DIST	DISTRIBUTION
DP	DISTRIBUTION PANEL
E.C.	ELECTRICAL CONTRACTOR
E.G.C.	EQUIPMENT GROUNDING CONDUCTOR
EM	EMERGENCY
EMS	ENERGY MANAGEMENT SYSTEM
EQPT	EQUIPMENT
EXT	EXTERIOR
(E)	EXISTING
(ER)	EXISTING EQUIPMENT TO BE RELOCATED
(EX)	EXISTING EQUIPMENT TO BE DEMOLISHED
FA	FIRE ALARM
FMC	FLEXIBLE METALLIC CONDUIT
FO	FIBER OPTIC
FTL	FEED THROUGH LUGS
G.E.C.	GROUNDING ELECTRODE CONDUCTOR
GFI	GROUND FAULT CIRCUIT INTERRUPTING TYPE RECEPTACLE
INV	INVERTER, EM LIGHTING OR PHOTOVOLTAIC.
IDF	INTERMEDIATE DISTRIBUTION FRAME
L	LOCKABLE
LTG	LIGHTING
LV	LOW VOLTAGE
MC	METAL CLAD CABLING
MCB	MAIN CIRCUIT BREAKER
MDF	MAIN DISTRIBUTION FRAME
MFGR	MANUFACTURER
MLO	MAIN LUGS ONLY
MTD	MOUNTED
(N)	NEW
N.E.C.	NATIONAL ELECTRICAL CODE
NEU	NEUTRAL
NIEC	NOT IN ELECTRICAL CONTRACT
OAH	OVERALL HEIGHT
OFCI	OWNER FURNISHED, CONTRACTOR INSTALLED
P	INDICATES FIXTURES ON PHOTOCELL CONTROL
PA	PUBLIC ADDRESS
PNL	PANEL
S.A.D.	SEE ARCHITECTURAL DRAWINGS
SIG	SIGNAL SYSTEM
SPD	SURGE PROTECTION DEVICE
STC	SIGNAL TERMINAL CABINET
SWBD	SWITCHBOARD
TELE	TELEPHONE
UFER	CONCRETE ENCASED CU G.E.C.
UON	UNLESS OTHERWISE NOTED
UG	UNDERGROUND
VAV	VAV BOX, SEE MECHANICAL DIVISION DRAWINGS FOR LOCATIONS. PROVIDE TOGGLE TYPE DISCONNECT SWITCH.
WP	WEATHER PROOF, NEMA 3R. EQUALS "WHILE IN USE" TYPE WHEN APPLIED TO EXTERIOR POWER RECEPTACLES
XFMR	TRANSFORMER

GENERAL ELECTRICAL NOTES

21. THE CONTRACTOR SHALL PAY FOR ALL REQUIRED PERMITS AND INSPECTION FEES.
22. THE CONTRACTOR SHALL VERIFY ALL CRITICAL DIMENSIONS WITH THE ARCHITECTURAL DRAWINGS PRIOR TO ROUGH-IN.
23. ALL EXIT SIGNS SHALL COMPLY WITH THE RELEVANT PORTIONS OF SECTIONS 1008 AND 1013 OF THE CBC.
24. ALL MECHANICAL DIVISION EQUIPMENT LOW VOLTAGE CONTROL WIRING AND RACEWAY SHALL BE PROVIDED AND INSTALLED AS SPECIFIED IN MECHANICAL DIVISION U.O.N.
25. COORDINATE INSTALLATION OF ALL RECESSED LUMINAIRE(S) WITH MECHANICAL DIVISION PRIOR TO INSTALLATION OF HVAC DUCTS AND SPRINKLER HEADS. ENSURE AFTER INSTALLATION OF LUMINAIRE(S) THAT THERE IS NO CONTACT BETWEEN DUCTS AND LUMINAIRE(S) TO AVOID VIBRATION IN LUMINAIRE(S).
26. USE FLEXIBLE CONDUIT FOR ALL MOTOR, TRANSFORMER, RECESSED LUMINAIRE CONNECTIONS, AND CONNECTIONS BETWEEN TWO SEPARATE STRUCTURES AND FOR ALL FINAL CONNECTIONS TO "CRITICAL EQUIPMENT" AS DEFINED IN SPECIFICATIONS. MINIMUM 1/2" DIAMETER, LIQUID TIGHT TYPE USED OUTDOORS AND IN ALL WET LOCATIONS; PROVIDE WITH CODE-SIZE (MINIMUM #12) BARE GROUND WIRE IN ALL FLEXIBLE CONDUIT.
27. PROVIDE A DEDICATED NEUTRAL CONDUCTOR FOR ALL BRANCH CIRCUITS FEEDING OUTLETS AS NOTED ON THE DRAWINGS.
28. FOR FLUSH MOUNTED PANELBOARDS THE CONTRACTOR SHALL STUB A MINIMUM OF FOUR (4) 3/4" CONDUITS FROM THE PANEL UP INTO THE ACCESSIBLE CEILING ABOVE FOR FUTURE CIRCUITS.
29. ALL CONDUIT CONNECTORS TO OUTLET OR JUNCTION BOXES SHALL HAVE INSULATED THROATS (MANUFACTURED AS AN INTEGRAL PART OF THE CONNECTOR). AFTER-MARKET INSERTABLE THROATS ARE NOT ACCEPTABLE.
30. ALL CIRCUITS IN ALL JUNCTION BOXES AND DEVICES SHALL BE CLEARLY IDENTIFIED BY MEANS OF "EZ" NUMBERING TAGS OR EQUIVALENT, TO IDENTIFY THE CIRCUIT NUMBER OR RELAY SUPPLYING THE CONDUCTOR. ALL JUNCTION BOXES SHALL BE LABELED PER SPECIFICATIONS.
31. ALL SURFACE MOUNTED POWER AND SIGNAL BOXES IN FINISHED AREAS SHALL BE "WIREMOLD" TYPE, WITH MATCHING RACEWAYS. SURFACE MOUNTED STEEL JUNCTION BOXES AND/OR EMT ARE NOT ACCEPTABLE.
32. ALL LOCATIONS OF BARE METAL SURFACE MOUNTED CONDUIT, BOXES, PANEL COVERS, AND RELATED FITTINGS OR ACCESSORIES INSTALLED IN FINISHED AREAS (BOTH INTERIOR AND EXTERIOR) SHALL BE FINISH PAINTED TO MATCH THE SURFACE TO WHICH THEY ARE MOUNTED (AFTER INSTALLATION). PAINTING SHALL INCLUDE DIFFERENT COLORS AS REQUIRED TO MATCH EXISTING STRIPING OR OTHER BUILDING FEATURES TO WHICH THE EQUIPMENT IS ATTACHED AND VISIBLE. VERIFY EXACT JUNCTION BOX LOCATION(S) AND ROUTING OF EXPOSED RACEWAYS WITH THE ARCHITECT PRIOR TO ROUGH-IN.
33. PROVIDE A BLANK COVER PLATE (COLOR TO MATCH ADJACENT DEVICES OR AS SPECIFICALLY CALLED FOR IN SPECIFICATIONS) FOR ALL JUNCTION BOXES (NEW AND EXISTING) ON THE PROJECT WHEN NO DEVICE IS INSTALLED.
34. FOR OUTDOOR 15 AND 20-AMPERE, 125 AND 250-VOLT RECEPTACLES: RECEPTACLES LOCATED IN "WET" LOCATIONS SHALL HAVE "IN-USE" TYPE WEATHERPROOF COVER PLATES PROVIDED AND INSTALLED; RECEPTACLES LOCATED IN "DAMP" LOCATIONS SHALL HAVE "IN-USE" TYPE WEATHERPROOF COVER PLATES IN LOCATIONS DEEMED TO BE "IN-USE" WITH CORD AND PLUG ATTACHED.
35. TWO OR THREE DIFFERENT PHASES SUPPLIED BY A 3-PHASE PANEL MAY SHARE A SINGLE NEUTRAL ONLY IF CIRCUIT POSITIONS ARE ADJACENT IN THE PANEL. PROVIDE COMMON HANDLE-TIE ON BREAKERS FOR MULTI-WIRE BRANCH CIRCUITS, WITH COMMON NEUTRAL, PER NEC REQUIREMENTS.

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GENERAL ELECTRICAL NOTES

ALL ELECTRICAL WORK SHALL COMPLY WITH THE FOLLOWING CODES AND STANDARDS:

- 2022 CALIFORNIA CODE OF REGULATIONS.
- 2022 CALIFORNIA BUILDING STANDARDS ADMIN CODE, PART 1, TITLE 24.
- 2022 CALIFORNIA BUILDING CODE (CBC).
- 2022 CALIFORNIA ELECTRICAL CODE (CEC).
- CALIFORNIA ENERGY CODE, PART 6, TITLE 24.
- 2022 CALIFORNIA FIRE CODE (CFC).
- 2022 CALIFORNIA GREEN BUILDING STANDARDS (CALGREEN).
- UNDERWRITERS' LABORATORIES, INC. (UL).
- LOCAL UTILITY COMPANY REGULATIONS.
- ALL STATE AND LOCAL MUNICIPAL CODES AND ORDINANCES.

1

1. PRIOR TO BID THE CONTRACTOR SHALL VISIT THE SITE TO ADEQUATELY DETERMINE ALL PRE-EXISTING CONDITIONS. BY THE ACT OF SUBMITTING A BID, THE CONTRACTOR WILL BE DEEMED TO HAVE COMPLIED WITH THE FOREGOING, TO HAVE ACCEPTED SUCH CONDITIONS, AND TO HAVE MADE ALLOWANCES THEREFORE IN PREPARING THE BID.
2. PROVIDE PARITY SIZED GREEN GROUND WIRE IN ALL POWER CONDUITS, BRANCH CIRCUITS (LIGHTING & POWER) AND HOMERUNS. PROVIDE ADDITIONAL ISOLATED GROUND, GREEN WITH YELLOW STRIPE, TO ALL ISOLATED GROUND RECEPTACLES.
3. PROVIDE PULLROPE IN ALL EMPTY CONDUITS THROUGHOUT THE PROJECT.
4. REFER TO ARCHITECTURAL PLANS AND ELEVATIONS FOR EXACT LOCATION & CONNECTION REQUIREMENTS OF ALL LUMINAIRE(S) AND ALL OUTLET, SWITCH, AND ELECTRICAL RELATED DEVICE MOUNTING HEIGHTS AND LOCATIONS. COORDINATE LOCATIONS OF ALL LUMINAIRE(S) AND JUNCTION BOXES WITH MECHANICAL DIVISION PRIOR TO ROUGH-IN. COORDINATE LOCATIONS OF ELECTRICAL DEVICES WITH FURNITURE PLANS PRIOR TO ROUGH-IN.
5. REFER TO MECHANICAL PLANS FOR EXACT LOCATION(S) OF ALL MECHANICAL EQUIPMENT, AND CONFIRM EXACT CONNECTION REQUIREMENTS OF ALL MECHANICAL EQUIPMENT WITH MECHANICAL DIVISION, PRIOR TO ROUGH-IN. VERIFY EXACT REQUIREMENTS FOR VOLTAGE, PHASE, HORSE-POWER, OR KVA RATINGS, OF ALL MECHANICAL DIVISION EQUIPMENT REQUIRING ELECTRICAL CONNECTION.
6. VERIFY EXACT CONNECTION REQUIREMENTS, OUTLET TYPE(S), MOUNTING HEIGHT(S) AND LOCATION(S) OF ALL OWNER-SUPPLIED EQUIPMENT, AND ALL EQUIPMENT PROVIDED UNDER OTHER SECTIONS OF THE SPECIFICATIONS, PRIOR TO ROUGH-IN. REFER TO ARCHITECTURAL DRAWINGS FOR EQUIPMENT LOCATIONS.
7. COORDINATE TRENCHING WITH OWNER AND OTHER TRADES BEFORE BEGINNING WORK.
8. ALL CONDUIT PENETRATIONS THROUGH FIRE-RATED WALLS AND FLOORS SHALL BE SEALED AND EQUIPPED WITH U.L. LISTED FIRE PENETRATION ASSEMBLIES TO MAINTAIN FIRE SEPARATION RATING.
9. DO NOT INSTALL ANY OUTLETS BACK TO BACK IN STUD WALLS OR DE-MOUNTABLE PARTITIONS.
10. THE CONTRACTOR SHALL VERIFY ALL CEILING TYPES BEFORE ORDERING OF LUMINAIRE(S). ALSO VERIFY THAT ALL FEATURES CALLED FOR IN LUMINAIRE DESCRIPTIONS ON THE LUMINAIRE SCHEDULE ARE INCLUDED WITH CATALOG NUMBERS LISTED ON THE LUMINAIRE SCHEDULE WHEN LUMINAIRE ORDERS ARE PLACED, AND ARE INCLUDED AS PART OF THE LIGHTING SUBMITTALS FOR THIS PROJECT. IF A DISCREPANCY EXISTS, CONTACT THE ARCHITECT AND ELECTRICAL ENGINEER FOR CLARIFICATION PRIOR TO BID.
11. CIRCUITRY AND CONDUIT ROUTING SHOWN ON THE PLANS IS DIAGRAMMATIC ONLY. THIS CONTRACTOR IS RESPONSIBLE FOR BECOMING COMPLETELY FAMILIAR WITH THE ARCHITECTURAL AND STRUCTURAL CONDITIONS AND LIMITATIONS IN THE BUILDING AND TO PROVIDE ALL LABOR, TOOLS AND MATERIALS REQUIRED TO PRODUCE A COMPLETELY CONCEALED INSTALLATION WHEREVER INDICATED ON THE PLANS.
12. MAINTAIN "AS-BUILT" RECORDS AT ALL TIMES, SHOWING EXACT LOCATION OF ALL UNDERGROUND AND/OR CONCEALED CONDUITS AND SERVICES INSTALLED UNDER THIS CONTRACT, INCLUDING CIRCUIT IDENTIFICATION WHERE APPLICABLE. PROVIDE OWNER WITH "AS-BUILT" DOCUMENTS AS INDICATED IN THE SPECIFICATIONS, AND/OR CALLED FOR IN THE SPECIFICATIONS.
13. DRAWINGS INDICATE THE LOCATION(S) OF DEVICES, LUMINAIRE(S) AND EQUIPMENT, AND THE CIRCUIT NUMBER AND PANEL DESIGNATED TO SUPPLY THEM. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLETELY CONNECTING ALL ELECTRICAL DEVICES TO CIRCUITS INDICATED ON THE DRAWINGS.
14. UNLESS OTHERWISE NOTED, ALL WORK SHOWN ON DRAWINGS IS NEW AND TO BE PROVIDED AND INSTALLED COMPLETE UNDER THIS CONTRACT.
15. ALL EQUIPMENT GROUNDING SHALL CONFORM TO ARTICLE 250 OF THE NATIONAL ELECTRICAL CODE, LATEST EDITION.
16. ALL EXTERIOR CONDUIT ABOVE GRADE, INCLUDING ALL ROOF MOUNTED CONDUIT, SHALL BE GALVANIZED RIGID STEEL. COAT ALL EXPOSED THREADS WITH GALVANIZING PAINT. PAINT ALL SURFACE MOUNTED RACEWAYS AND PULLBOXES TO MATCH SURROUNDING CONDITIONS, AS DIRECTED BY THE ARCHITECT.
17. ALL ELECTRICAL WORK SHALL BE CARRIED OUT IN ACCORDANCE WITH THE LATEST EDITION OF THE N.E.C., AS WELL AS STATE, AND LOCAL CODES AND REQUIREMENTS.
18. ALL CONDUIT SHALL BE CONCEALED, UNLESS OTHERWISE NOTED.
19. THE CONTRACTOR SHALL BE RESPONSIBLE TO VERIFY THE AVAILABLE SHORT CIRCUIT CURRENT AT THE MAIN SWITCHBOARD INCOMING TERMINALS WITH THE UTILITY COMPANY, AND TO VERIFY THAT ALL POWER AND SIGNAL SERVICE PROVISIONS, INCLUDING CONCRETE EQUIPMENT PADS, CONDUITS, PULLBOXES AND CLEARANCES, MEET THE UTILITY COMPANY'S REQUIREMENTS, PRIOR TO INSTALLATION.
20. EQUIPMENT OVERLOADS AND FUSES SHALL BE PROVIDED AND INSTALLED AS PER NAME PLATE ON THE EQUIPMENT ACTUALLY PROVIDED.

Project Title:

CITY OF BERKELEY
PARKS, RECREATION & WATERFRONT DEPARTMENT

MLK JR YOUTH SERVICES CENTER / YAP

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Stamp:

REGISTERED PROFESSIONAL ENGINEER — COLEEN No.E14738 Exp. 6/25 — ELECTRICAL — STATE OF CALIFORNIA

03/12/25

No.	Description	Date
	PERMIT SET	12/04/24
1	PLAN CHECK #1	03/07/25

Issue Note: PERMIT RESUBMITTAL 03/07/25

City Plan No.:	8286
City File No.:	402-145
Specification No.:	#25-11695-C
Project ID:	YAP
Drawn by:	JK
Checked by:	PJC
Plot Date:	12/2/24
Scale:	12" = 1'-0"

Sheet Title:
GENERAL NOTES, LIST OF DRAWINGS

Sheet No.:
E0.01

3/12/2025 10:56:53 AM

FIRE ALARM SYMBOLS LIST

- F — FIRE ALARM SYSTEM MANUAL PULL STATION, UP 48" U.O.N.
- S — FIRE ALARM SYSTEM STROBE, UP 80" U.O.N. NUMBER INDICATES CANDELA VALUE FOR STROBE
- 110 S — FIRE ALARM SYSTEM STROBE, CEILING MOUNTED. NUMBER ADJACENT INDICATES CANDELA VALUE FOR STROBE
- 110 V — FIRE ALARM SYSTEM HORN/STROBE, UP 80" U.O.N. NUMBER ADJACENT INDICATES CANDELA VALUE FOR STROBE.
- 110 V — FIRE ALARM SYSTEM HORN/STROBE, CEILING MOUNTED. NUMBER ADJACENT INDICATES CANDELA VALUE FOR STROBE
- S — FIRE ALARM SYSTEM SPEAKER, UP 90" U.O.N.
- S — WEATHERPROOF FIRE ALARM SYSTEM SPEAKER, UP 90" U.O.N.
- S — FIRE ALARM SYSTEM SPEAKER, CEILING MOUNTED
- D — WALL MOUNTED ELECTROMAGNETIC DOOR HOLD-OPEN DEVICE, FURNISHED BY DIV. 8, INSTALLED & CONNECTED COMPLETE TO FIRE ALARM SYSTEM BY DIV. 28
- FS — FIRE ALARM SYSTEM SPRINKLER FLOW SWITCH. PROVIDE MONITOR MODULE. SEE FIRE PROTECTION DRAWINGS
- TS — FIRE ALARM SYSTEM SPRINKLER VALVE SUPERVISORY SWITCH. PROVIDE MONITOR MODULE. SEE FIRE PROTECTION DRAWINGS
- PIV — POST INDICATING VALVE. PROVIDE MONITOR MODULE. SEE CIVIL DRAWINGS
- B — SPRINKLER FLOW ALARM (PROVIDE BY SPRINKLER CONTRACTOR). CONNECT COMPLETE VIA WATER FLOW SWITCH AUX. CONTACTS. SEE FIRE PROTECTION DRAWINGS
- S — FIRE ALARM SYSTEM SMOKE DETECTOR
- E S — FIRE ALARM SYSTEM CEILING MOUNTED SMOKE DETECTOR PROGRAMMED FOR AUTOMATIC RECALL OF ELEVATOR
- H — FIRE ALARM SYSTEM HEAT DETECTOR
- D — FIRE ALARM SYSTEM HVAC DUCT MOUNTED SMOKE DETECTOR. COORDINATE WITH MECHANICAL FOR SUPPLY, INSTALL AND COMPLETE CONNECTION (INCLUDING CONTROL OF HVAC EQUIPMENT) - SEE SPECIFICATIONS
- M — FIRE ALARM SYSTEM MONITOR MODULE
- C — FIRE ALARM SYSTEM CONTROL MODULE
- R — FIRE ALARM SYSTEM RELAY MODULE
- CO — FIRE ALARM SYSTEM CEILING MOUNTED CARBON MONOXIDE DETECTOR WITH SOUNDER BASE

ELECTRICAL SYMBOLS LIST

- DC — SECURITY SYSTEM DOOR CONTACT. PROVIDE 1/2" C.O. ROUGH-IN FROM NEAREST ACCESSIBLE CEILING AREA, TO DOOR FRAMING. PROVIDE 1" C.O. WITHIN ALL NON-ACCESSIBLE AREAS FOR WIRING AND DEVICE BY OTHERS.
- M — SECURITY SYSTEM CEILING MOUNT 360° MOTION DETECTOR. PROVIDE 1" C.O. WITHIN ALL NON-ACCESSIBLE AREAS FOR WIRING, DEVICE AND MOUNT, BY OTHERS
- GB — SECURITY SYSTEM CEILING MOUNT GLASS BREAK DETECTOR. PROVIDE 1" C.O. WITHIN ALL NON-ACCESSIBLE AREAS FOR WIRING, DEVICE AND MOUNT, BY OTHERS
- K — WALL MOUNTED SECURITY SYSTEM KEYPAD, UP 48" TO TOP OF BOX. PROVIDE 3/4" STUB-UP FROM WALL MOUNT LOCATION TO ACCESSIBLE CEILING SPACES, AND PROVIDE 1" C.O. WITHIN ALL NON-ACCESSIBLE AREAS FOR WIRING AND DEVICE BY OTHERS.
- 1 — PROJECT NUMBERED NOTE, OR SHEET NUMBERED, AS NOTED ON PLAN.
- COPPER GROUND ROD, 10' L x 3/4" Ø, SEE SPECS
- 100A 3P — CIRCUIT BREAKER, INDICATES 100 AMP, 3 POLE
- M — UTILITY METER
- CONDUCTOR LANDING LUGS
- CONDUIT TURN DOWN
- CONDUIT TURN UP
- CONTINUATION
- CONDUIT STUB
- 4004 — ELECTRICAL FEEDER TAG, PER COPPER FEEDER SCHEDULE
- F / 1 — MECHANICAL EQUIPMENT DESIGNATION, REFER TO MECHANICAL PLANS.
- PNL / LA — ELECTRICAL EQUIPMENT TAG: EQUIPMENT PREFIX "PNL", "DP", "SWBD", "XFMR", "FA", "IDF" EQUIPMENT NAME
- 1/E-0.1 / - — DETAIL OR SHEET REFERENCE CALLOUT. INDICATES DETAIL 1, SHEET E-0.1. WHEN ADJACENT EQUIPMENT, APPLIES TO EQUIPMENT IDENTIFIED ONLY.
- 1/E-0.1 / TYP — DETAIL OR SHEET REFERENCE CALLOUT. INDICATES DETAIL 1, SHEET E-0.1. WHEN ADJACENT EQUIPMENT, APPLIES TO TYPICAL EQUIPMENT SERIES.

BRANCH CIRCUIT NOMENCLATURE

EXAMPLES:

LA1-3	1-POLE BRANCH CIRCUIT TO CB
LA1-1,3,5	1-POLE BRANCH CIRCUIT FOR MULTI CIRCUIT HOMERUNS TO SEPARATE CB'S.
LA1-[1,3]	2-POLE BRANCH CIRCUIT TO COMMON CB
LA1-[1,3,5]	3-POLE BRANCH CIRCUIT TO COMMON CB

ELECTRICAL SYMBOLS LIST

- MAIN SWITCHBOARD, DISTRIBUTION PANEL, OR MOTOR CONTROL CENTER
- SURFACE MOUNTED PANELBOARD OR EQUIPMENT AS NOTED ON DRAWINGS. 6' - 6" TO TOP
- FLUSH MOUNTED PANELBOARD OR EQUIPMENT AS NOTED ON DRAWINGS. 6' - 6" TO TOP.
- PAD MOUNTED UTILITY TRANSFORMER, PER UTILITY CO. REQUIREMENTS.
- CONDUIT AND WIRE CONCEALED IN CEILING OR WALL
- CONDUIT AND WIRE UNDERGROUND, OR CONCEALED UNDER SLAB
- CONDUIT AND WIRE RUN EXPOSED, PAINTED TO MATCH ALL ADJACENT FINISHES WITHIN FINISHED SPACES
- HOMERUN TO PANELBOARD OR TERMINAL BOARD, AS NOTED ON PLANS
- CROSSMARKS INDICATE QUANTITY OF #12 CONDUCTORS PLUS PARITY SIZED GROUND CONDUCTOR. NO HASHMARKS INDICATES (2) #12 PLUS PARITY SIZED GROUND CONDUCTOR.
  - GROUND WIRE
- (#10) — WIRE SIZE 10 AWG FOR ALL CONDUCTORS, INCLUDING GROUND WIRE THROUGHOUT THE COMPLETE CIRCUIT
- FLUSH FLOOR MOUNTED JUNCTION BOX
- FLUSH CEILING MOUNTED JUNCTION BOX
- FLUSH WALL MOUNTED JUNCTION BOX, UP 18" U.O.N.
- 20A 3PG 125V DUPLEX RECEPTACLE, UP 18" U.O.N.
- GFI — 20A 3PG 125V DUPLEX RECEPTACLE, GROUND FAULT CIRCUIT INTERRUPTER, UP 18" U.O.N.
- WP GFI — 20A 3PG 125V DUPLEX RECEPTACLE, GROUND FAULT CIRCUIT INTERRUPTER TYPE, UP 18" U.O.N., IN WEATHER PROOF, FLUSH LOCKABLE ENCLOSURE. HUBBELL #4600RAC (OR EQUAL).
- IG — 20A 3PG 125V DUPLEX RECEPTACLE, ISOLATED GROUND TYPE, UP 18" U.O.N.
- 20A 3PG 125V DUPLEX RECEPTACLE, MOUNTED ABOVE COUNTER, U.O.N.
- 20A 3PG 125V DOUBLE DUPLEX RECEPTACLE, UP 18" U.O.N.
- 20A 3PG 125V DOUBLE DUPLEX RECEPTACLE, MOUNTED ABOVE COUNTER, U.O.N.
- 20A 3PG 125V SINGLE RECEPTACLE, UP 18" U.O.N.
- RECEPTACLE AS NOTED ON PLANS.
- HALF CONTROLLED AND IDENTIFIED DOUBLE DUPLEX RECEPTACLE WIRED THROUGH LOCAL PLUG-LOAD CONTROLLER FOR ONE HALF OF DUPLEX, UP 18" U.O.N.
- 20A 3PG 125V DUPLEX RECEPTACLE, FLUSH CEILING MOUNT.
- 20A 3PG 125V DUPLEX RECEPTACLE, FLUSH CEILING MOUNT.
- FLOOR BOX ASSEMBLY, IN-SLAB. DOUBLE DUPLEX RECEPTACLE, AND DATA OUTLET.
- FIRE RATED POKE THRU ASSEMBLY FLOOR BOX
- LINE VOLTAGE THERMOSTAT, PROVIDED AND INSTALLED BY ELECTRICAL, CONNECTED COMPLETE BY MECHANICAL
- SURFACE MOUNTED WIREMOLD RACEWAY WITH RECEPTACLES AS INDICATED ON PLANS
- SURFACE MOUNTED WIREMOLD RACEWAY RISER
- 2D — DATA OUTLET, WALL MOUNTED, UP 18" U.O.N. MINIMUM 2D PER RECEPTACLE.
  - NUMBER INDICATES QUANTITY OF DATA OUTLET JACKS. WHERE NONE SHOWN, 2 SHALL BE PROVIDED.
- 2D — DATA OUTLET, WALL MOUNTED, MOUNTED ABOVE COUNTER.
  - NUMBER INDICATES QUANTITY OF DATA OUTLET JACKS. WHERE NONE SHOWN, 2 SHALL BE PROVIDED.
- 2D — DATA OUTLET, FLUSH CEILING MOUNT.
  - 'AP' - WIFI ACCESS POINT
  - 'SEC' - SECURITY CAMERA
  - NUMBER INDICATES QUANTITY OF DATA OUTLET JACKS, IF MORE THAN 1. WHERE NONE SHOWN, PROVIDE 1.
- FLUSH WALL MOUNTED INDOOR PUBLIC ADDRESS SPEAKER & SIGNAL SYSTEM CLOCK, UP 96" U.O.N.
  - FOR IP BASED SYSTEMS, PROVIDE 2 DATA DROPS AT EACH DEVICE SHOWN ON THE PLANS, U.O.N.
- FLUSH WALL MOUNTED INDOOR PUBLIC ADDRESS SPEAKER, UP 96" U.O.N. - "WP" INDICATES WEATHERPROOF
  - FOR IP BASED SYSTEMS, PROVIDE 1 DATA DROP AT EACH DEVICE SHOWN ON THE PLANS, U.O.N.
- FLUSH WALL MOUNTED SIGNAL SYSTEM CLOCK, UP +96" U.O.N.
  - FOR IP BASED SYSTEMS, PROVIDE 2 DATA DROPS AT EACH DEVICE SHOWN ON THE PLANS, U.O.N.
- $m — LINE VOLTAGE MOTOR RATED SWITCH INSTALLED AT EQUIPMENT SHOWN

ELECTRICAL SYMBOLS LIST

- MOTOR DISCONNECT SWITCH, HORSEPOWER RATED, FUSED
  - PLAN SPECIFIC DIMENSIONED SYMBOL, BASED ON INDUSTRY STANDARD FRAME SIZES
  - DIAGRAMAMTIC SYMBOL
- MOTOR DISCONNECT SWITCH, HORSEPOWER RATED, NON FUSED
  - PLAN SPECIFIC DIMENSIONED SYMBOL, BASED ON INDUSTRY STANDARD FRAME SIZES
  - DIAGRAMAMTIC SYMBOL
- VFD — VARIABLE FREQUENCY DRIVE, FURNISHED BY MECHANICAL, INSTALLED AND CONNECTED COMPLETE BY ELECTRICAL.
- $a — LINE VOLTAGE SINGLE POLE TOGGLE SWITCH, LETTER ADJACENT INDICATES RESPECTIVE ZONE CONTROLLED, UP 48" U.O.N.
- $2 — LINE VOLTAGE TWO POLE TOGGLE SWITCH, UP 48" U.O.N.
- $3 — LINE VOLTAGE THREE-WAY TOGGLE SWITCH, UP 48" U.O.N.
- $k — LINE VOLTAGE KEY OPERATED TOGGLE SWITCH
- $m — LINE VOLTAGE MOTOR RATED TOGGLE SWITCH INSTALLED AT EQPT SHOWN
- $ p — LINE VOLTAGE TOGGLE SWITCH WITH PILOT LIGHT, LIGHT IS ON WHEN CIRCUIT IS CLOSED, UP 48" U.O.N.
- S ab — LOW VOLTAGE MOMENTARY CONTACT SWITCH - SEE LOW VOLTAGE RELAY SCHEDULE, LOWER CASE LETTER ADJACENT INDICATES RESPECTIVE ZONE CONTROLLED, UP 48" U.O.N.
- kS ab — LOW VOLTAGE KEYED MOMENTARY CONTACT SWITCH - SEE LOW VOLTAGE RELAY SCHEDULE, LOWER CASE LETTER ADJACENT INDICATES RESPECTIVE ZONE CONTROLLED, UP 48" U.O.N.
- a OS b — WALL MOUNTED SWITCH TYPE INFRARED OCCUPANCY SENSOR; UP 48" U.O.N.; SINGLE OR DUAL AS NOTED BY LETTERS ADJACENT. SET TO FIXED 20 MINUTE TIME DELAY AND MAX SENSITIVITY
- a DS b — WALL MOUNTED DUAL TECHNOLOGY OCCUPANCY SENSOR; UP 48" U.O.N.; SINGLE OR DUAL AS NOTED BY LETTERS ADJACENT. SET TO FIXED 20 MINUTE TIME DELAY AND MAX SENSITIVITY
- OSD — WALL MOUNTED DIGITAL DUAL TECHNOLOGY DIMMING OCCUPANCY SENSOR SWITCH; UP 48" U.O.N.
- S a — WALL MOUNTED DIGITAL SWITCH, UP 48" U.O.N.; LOWER CASE LETTER ADJACENT INDICATES RESPECTIVE ZONE CONTROLLED
- 2 D a,b — WALL MOUNTED SINGLE OR MULTI-ZONE DIGITAL DIMMER SWITCH, UP 48" U.O.N.; LOWER CASE LETTERS ADJACENT INDICATE RESPECTIVE ZONES TO BE SIMULTANEOUSLY MANUALLY CONTROLLED; NUMERAL DESIGNATES NUMBER OF ZONES ASSIGNED TO THE DEVICE
- CEILING MOUNTED DUAL TECHNOLOGY DIGITAL OCCUPANCY SENSOR
- WALL MOUNTED DUAL TECHNOLOGY DIGITAL OCCUPANCY SENSOR
- LOW VOLTAGE COLD TEMPERATURE PIR OCCUPANCY SENSOR
- CEILING MOUNTED LINE VOLTAGE DUAL TECHNOLOGY OCCUPANCY SENSOR
- Z3,Z4 P — SINGLE OR MULTI-ZONE SWITCHING OR DIMMING OPEN LOOP DIGITAL DAYLIGHTING SENSOR; NOTATIONS ADJACENT IDENTIFY DAYLIGHT ZONES ASSIGNED TO THE DEVICE. VERIFY EXACT LOCATION PRIOR TO ROUGH-IN
- Z1 P — SINGLE ZONE SWITCHING OR DIMMING CLOSED LOOP DIGITAL DAYLIGHTING SENSOR; NOTATIONS ADJACENT IDENTIFY DAYLIGHT ZONES ASSIGNED TO THE DEVICE. VERIFY EXACT LOCATION PRIOR TO ROUGH-IN
- Z1 P — DAYLIGHT CONTROL PHOTOCELL - BRACKET MOUNTED; NOTATIONS ADJACENT IDENTIFY DAYLIGHT ZONES ASSIGNED TO THE DEVICE. VERIFY EXACT LOCATION PRIOR TO ROUGH-IN
- Z2 — INDICATES DAYLIGHT ZONE CONTROLLED VIA PHOTOCELL
- RC 2 — ROOM CONTROLLER
  - ADJACENT NUMERAL REFERS TO THE NUMBER OF ZONES TO BE CONTROLLED. VENDOR OR CONTRACTOR TO PROVIDE QUANTITY OF ROOM CONTROLLERS REQUIRED FOR THE NUMBER OF CONTROLLED ZONES.
- PC — PLUG LOAD ROOM CONTROLLER
- NB — NETWORK BRIDGE
- MBR — MASTER WIRELESS BORDER ROUTER & NB - SWITCH IN NETWORK CABINET
- BR 1 — SECONDARY WIRELESS BORDER ROUTER
- IR — ISOLATED RELAY INTERFACE
- EC — EMERGENCY LIGHTING CONTROL MODULE
- P — OCCUPANCY SENSOR POWER PACK MOUNTED IN CONCEALED ACCESSIBLE LOCATION

CALIFORNIA GREEN BUILDING STANDARDS COMPLIANCE

ALL EXTERIOR LUMINAIRES SPECIFIED IN THESE CONTRACT DOCUMENTS COMPLY WITH THE REQUIREMENTS OF THE CALIFORNIA ENERGY CODE AND THE CALIFORNIA GREEN BUILDING STANDARDS CODE, SECTION A5.106.8 LIGHT POLLUTION REDUCTION. EXTERIOR LUMINAIRES COMPLY WITH BACKLIGHT, UPLIGHT, AND GLARE (BUG) RATINGS AS DEFINED IN IESNA TM-15-11 AND BUG RATINGS DO NOT EXCEED THE MAXIMUM ALLOWABLE RATINGS FOR THIS PROJECT.

ELECTRICAL SYMBOLS LIST

ALL SWITCH AND CONTROL MOUNTING HEIGHTS OF 48" SHALL BE TO TOP OF THE DEVICE BOX. ALL RECEPTACLES WITH MOUNTING HEIGHT OF UP TO 18" SHALL BE NO LOWER THAN 15" TO BOTTOM OF THE DEVICE BOX, TYPICAL, U.O.N.

- AA1 — INDICATES LUMINAIRE TYPE, SEE LUMINAIRE SCHEDULE
- RECESSED 2'x2', 2'x4' OR 1'x4' LUMINAIRE, FULLY LENSED
- EM EM / E E — INDICATES EMERGENCY LUMINAIRE. SEE ABBREVIATIONS FOR TYPE OF EMERGENCY SOURCE
- SUSPENDED LINEAR LUMINAIRE
  - INDICATES AIRCRAFT CABLE SUPPORT POINT (VERIFY WITH MFGR)
  - INDICATES COMBINATION AIRCRAFT CABLE/ELECTRICAL FEED POINT (VERIFY WITH MFGR)
- SURFACE CEILING, WALL OR COVE MOUNTED LUMINAIRE
- UNDER CABINET LUMINAIRE
- SURFACE OR SUSPENDED STRIP LUMINAIRE
- SURFACE CEILING MOUNTED LUMINAIRE
- PENDANT MOUNTED LUMINAIRE
- WALL MOUNTED LUMINAIRE
- RECESSED DOWNLIGHT LUMINAIRE
- RECESSED WALLWASH LUMINAIRE
- POLE ARM-MOUNTED AREA LUMINAIRE; ARROW INDICATES DIRECTION OF LIGHT DISTRIBUTION WHEN NOT PARALLEL TO ARM ORIENTATION
- POST-TOP PEDESTRIAN-SCALE AREA LUMINAIRE; ARROW INDICATES DIRECTION OF LIGHT DISTRIBUTION
- WALL MOUNTED EXIT SIGN, ARROWS AS NOTED ON PLANS. SHADED AREA INDICATES NUMBER OF FACES

Project Title:

CITY OF BERKELEY
PARKS, RECREATION & WATERFRONT DEPARTMENT

MLK JR YOUTH SERVICES CENTER / YAP

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4340 REDWOOD HWY., SUITE 245
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Stamp:

REGISTERED PROFESSIONAL ENGINEER — PAUL J. COLEMAN — No.E14738 — Exp. 6/25 — ELECTRICAL — STATE OF CALIFORNIA

03/12/25

No.	Description	Date
	PERMIT SET	12/04/24
1	PLAN CHECK #1	03/07/25

Issue Note: PERMIT RESUBMITTAL 03/07/25

City Plan No.:	8286
City File No.:	402-145
Specification No.:	#25-11695-C
Project ID:	YAP
Drawn by:	JK
Checked by:	PJC
Plot Date:	12/2/24
Scale:	12" = 1'-0"

Sheet Title: ELECTRICAL SYMBOLS LIST

Sheet No.: E0.02

3/12/2025 10:56:53 AM

LUMINAIRE SCHEDULE

TYPE	MOUNTING	DESCRIPTION	MANUFACTURER CATALOG NUMBER	LIGHT SOURCE	POWER SUPPLY	VOLT	INPUT WATTS	REMARKS
BA1	SURFACE	WALL MOUNTED LED AREA LIGHT WITH SINGLE PIECE DIE-CAST ALUMINUM CONSTRUCTION HOUSING WITH SECONDARY HEAT SINKS. DIE-CAST ALUMINUM DOOR FRAME WITH FULL ONE-PIECE SOLID SILICONE GASKET. FULL CUTOFF TYPE III DISTRIBUTION OPTICS. METAL CORE CIRCUIT BOARDS AND INTEGRAL SURGE PROTECTION. UNIVERSAL MOUNTING PLATE. PHOTOCELL AND BI-LEVEL MOTION SENSOR CONTROL OPTION. STANDARD FINISH AS SELECTED BY THE ARCHITECT. 9" H X 11.5" W X 7" D. PROVIDE SURFACE MOUNTED BACK BOX IF REQUIRED FOR SURFACE CONDUIT INSTALLATION.	LITHONIA WDGE2-LED-P1-35K-80CRI-VW-MVOLT-SRM-FINISH-PBBW(IF REQUIRED)	3000K CCT 80 CRI 1204 LM	NON-DIMMING	UNV	12 W	
BB1	SURFACE	ULTRA LOW-PROFILE SURFACE MOUNTED SQUARE DOWNLIGHT, SUITABLE FOR WET LOCATIONS (COVERED CEILINGS), NOM. 12" DIAMETER X 1" DEPTH.	JUNO JSFQ-12IN-13LM-35K-90CRI-MVOLT ZT-WH	3500K LED 80+ CRI 1300 LM	INTEGRAL ELECTRONIC POWER SUPPLY WITH 0-10V DIMMING	UNV	15W	
BC1	SURFACE	EXTERIOR ARM-MOUNTED LINEAR WALL WASHER, LOW-PROFILE EXTRUDED ALUMINUM HOUSING WITH FORMED ALUMINUM CANOPY, END CAPS, AND 24" CANTILEVER STEMS. FIELD-AIMABLE AND LOCKABLE ASYMMETRIC WALL WASH DISTRIBUTION. POLYESTER POWDER COATED PAINT FINISH IN WHITE OR BLACK AS SPECIFIED BY ARCHITECT. CONTINUOUS ROW MOUNTING OF (6) NOM. 5' SECTIONS AND (1) 4' SECTION FOR NOM. LENGTH OF 34'. 1 LB/FT.	ELLIPTIPAR S151-L-(6)5'+(1)4'-HGC(24")-FINISH-M-935-DIMMING-DRIVER	3500K LED 80+ CRI 400 LM/FT	LOW-VOLTAGE REMOTE POWER SUPPLY FOR EACH SECTION OF CONTINUOUS RUN.	UNV	116 W	
BC2	SURFACE	SIMILAR TO TYPE BC1 EXCEPT NOM. 30' LENGTH.	ELLIPTIPAR S151-L-(6)5'-HGC(24")-FINISH-M-935-DIMMING-DRIVER	3500K LED 80+ CRI 400 LM/FT	LOW-VOLTAGE REMOTE POWER SUPPLY FOR EACH SECTION OF CONTINUOUS RUN.	UNV	102 W	
EX1	SURFACE	SURFACE WALL MOUNTED LED EXIT SIGN, SINGLE-FACE, WITH ALL MOUNTING ACCESSORIES, PARTS, STENCIL FACES, KNOCK-OUT DIRECTIONAL ARROW INDICATORS, ETC., AS REQUIRED FOR EXIT SIGNS THAT FULLY CONFORM TO THE CONFIGURATIONS AS INDICATED ON THE LIGHTING PLANS. ALL UNITS TO BE SUPPLIED WITH STANDARD BACK-WALL MOUNT OPTION; STANDARD FACTORY FINISH TO BE DETERMINED BY THE ARCHITECT.	EVENLITE RAZOR MK3, RZR3-AC-G-1-FINISH-1B	LED	INTEGRAL ELECTRONIC	120/277	2	
EX2	SURFACE	SAME AS EX1 EXCEPT TOP CANOPY MOUNT TO CEILING AND (2) FACES	EVENLITE RAZOR MK3, RZR3-AC-G-2-FINISH-CN	LED	INTEGRAL ELECTRONIC	120/277	2	

LUMINAIRE SCHEDULE

TYPE	MOUNTING	DESCRIPTION	MANUFACTURER CATALOG NUMBER	LIGHT SOURCE	POWER SUPPLY	VOLT	INPUT WATTS	REMARKS
AA1	RECESSED	RECESSED LINEAR LUMINAIRE WITH OPEN APERTURE AND (4) 90 DEGREE CORNERS. 20 GA. SATIN COAT STEEL HOUSING WITH EXTRUDED ALUMINUM FLANGE FOR T-BAR CEILING MOUNTING. 5W/FT OUTPUT. 4' X 4' X 4" DEEP PATTERNED LAYOUT.	FLUXWERX NF1-P0-G1-B-A-35-F2-M-4' EACH SIDE OF SQUARE	3500K LED 80 CRI 2000 LM/4'	0-10V DIMMING (100% - 1%)	UNV	80 W	
AA2	RECESSED	SIMILAR TO TYPE AA1 EXCEPT 4' X 12' RECTANGULAR PATTERN.	FLUXWERX NF1-P1-G1-B-A-35-F2-M-4'X12' RECTANGLE	3500K LED 80 CRI 2000 LM/4'	0-10V DIMMING (100% - 1%)	UNV	160 W	
AB1	RECESSED	RECESSED 2' X 2' TROFFER WITH FACETTED FROSTED WHITE ACRYLIC DIFFUSER AND 24 GA. STEEL HOUSING AND REFLECTORS. ONE-PIECE HINGED BEZEL ASSEMBLY. 14.9 LBS.	FOCAL POINT FCT-22-FL-33500L-35K-1C-UNV-L11-G-WH	3500K LED 80 CRI 3500 LM	0-10V DIMMING (100% - 1%)	UNV	31 W	
AC1	PENDANT	CUSTOM PENDANT MOUNTED LUMINAIRE WITH EXTRUDED ALUMINUM CONSTRUCTION HOUSING WITH CUSTOM ANGLED MITRED CORNERS. WIDESPREAD UPLIGHT OPTICS WITH FLUSH OPAL WHITE DIFFUSER DOWNLIGHT OPTICS. FINISH TO BE DETERMINED BY THE ARCHITECT. 1 7/8" W X 3 1/8" H X PATTERN LENGTHS AS INDICATED ON THE DRAWINGS (NOM. 5' LONGEST SIDE X 4' SQUARE SIDES X 3' INTERIOR ANGLE SIDES). AIRCRAFT CABLE SUSPENSION. WEIGHT: 2.5 LBS/FT	LUMENWERX -SQUERO PATTERN SQUCOMPDIPAT-LED-LENGTH-80-350-350-35-UNV-HLO-XX-D1-1-53WAC36-FINISH	3500K LED 80 CRI 5000 LM/4'	0-10V DIMMING (100% - 1%)	UNV	11.6W/FT	
AE1	SURFACE	ARCHITECTURAL LINEAR STRIP LIGHT, EXTRUDED ALUMINUM HOUSING WITH SINGLE-PIECE SATIN ACRYLIC WRAP LENS. MEDIUM OUTPUT. NOM. 4' LENGTH X 2" W X 3" D. 2 LBS/FT.	PRUDENTIAL BOLT-PRO-LED35-MO-4'-SAL-FINISH-UNV-SUR-CEILING-DM01	3500K LED 80 CRI 3700 LM	0-10V DIMMING (100% - 1%)	UNV	26 W	
AE2	SURFACE	SIMILAR TO TYPE AE1 EXCEPT NOM. 8' LENGTH.	PRUDENTIAL BOLT-PRO-LED35-MO-8'-SAL-FINISH-UNV-SUR-CEILING-DM01	3500K LED 80 CRI 7400 LM	0-10V DIMMING (100% - 1%)	UNV	52 W	
AE3	SURFACE	SIMILAR TO TYPE AE1 EXCEPT NOM. 6' LENGTH AND LOW OUTPUT.	PRUDENTIAL BOLT-PRO-LED35-LO-6'-SAL-FINISH-UNV-SUR-CEILING-DM01	3500K LED 80 CRI 3150 LM	0-10V DIMMING (100% - 1%)	UNV	23 W	
AE4	SURFACE	SIMILAR TO TYPE AE1 EXCEPT NOM. 8' LENGTH AND LOW OUTPUT.	PRUDENTIAL BOLT-PRO-LED35-LO-8'-SAL-FINISH-UNV-SUR-CEILING-DM01	3500K LED 80 CRI 4200 LM	0-10V DIMMING (100% - 1%)	UNV	30 W	
AF1	SURFACE	ULTRA LOW-PROFILE SURFACE MOUNTED SQUARE DOWNLIGHT, NON-CONDUCTIVE FIXTURE FOR USE IN SHOWERS AND BATHROOMS, NOM. 14" DIAMETER X 1" DEPTH.	JUNO JSFQ-14IN-18LM-35K-90CRI-MVOLT ZT-WH	3500K LED 80+ CRI 1800 LM	INTEGRAL ELECTRONIC POWER SUPPLY WITH 0-10V DIMMING	120/277V	20W	
AG1	SURFACE OR SUSPENDED	SURFACE MOUNTED LENSED LED STRIPLIGHT; NOM. 2' LENGTH X 3.5" HEIGHT X 3" WIDTH; 22-GUAGE DIE-FORMED C.R.S.; SQUARE DIFFUSE ACRYLIC LENS; WIREGUARD ACCESSORY SHALL BE PROVIDED FOR UTILITY ROOMS AND OMITTED AT STORAGE ROOMS. 1.5 lb/ft.	HE WILLIAMS 7SS-2-L25-835-UNV-WG-75-DIM	3500K 80CRI 2470 lm	INTEGRAL ELECTRONIC LED POWER SUPPLIES	UNV	18W	
AG2	SURFACE OR SUSPENDED	SIMILAR TO TYPE 'AD1' EXCEPT NOM. 4' LENGTH.	HE WILLIAMS 7SS-4-L50-835-UNV-WG-75-DIM	3500K 80CRI 4867 lm	INTEGRAL ELECTRONIC LED POWER SUPPLIES	UNV	33W	
AH1	SUSPENDED	LED HIGH BAY LUMINAIRE WITH RIGID STEM AND SAFETY HOOK; DIE-CAST ALUMINUM HOUSING; BOROSILICATE GLASS REFLECTOR AND REFRACTOR; NOMINAL 20" DIAMETER X 16"H.; DIRECT ONLY, MEDIUM OPTICS; 5-WIRE POWER CORD FOR USE WITH LOW VOLTAGE LIGHTING CONTROLS; 3500K LED'S; INTEGRAL 0-10V DIMMING POWER SUPPLY; WIRE GUARD ACCESSORY; SINGLE CHAIN LINK AT LUMINAIRE HOUSING FOR ATTACHMENT OF SAFETY CABLE BY CONTRACTOR; STANDARD FINISH AS DIRECTED BY THE ARCHITECT. 29 LBS PLUS ACCESSORIES.	HOLOPHANE PHG-18000LM-HEF-MGG-35K-80CRI-PM-CNP165CDW-HKFD-SCK1"-WGX-FINISH	3500K 80+CRI 18,254lm	INTEGRAL ELECTRONIC, 0-10V DIMMING LED POWER SUPPLIES	UNV	108W	CONTRACTOR SHALL PROVIDE RIGID STEM, STEM LENGTHS MAY VARY, SEE PLANS FOR MOUNTING HEIGHT. STEM SHALL BE PAINTED TO MATCH RAL LUMINAIRE FINISH, OR AS DIRECTED BY THE ARCHITECT.
AJ1	RECESSED	LED 2' X 2' FLATPANEL LUMINAIRE SUITABLE FOR RECESS MOUNTING IN ACT GRID CEILING; LESS THAN 2 1/2" DEEP FOR SHALLOW PLENUM; ALUMINUM EXTRUDED FRAME AND SHATTER-PROOF POLYCARBONATE LENS. FULLY SEALED FOR HIGH ABUSE, WET LOCATION, AND NSF LISTED FOR FOOD-SERVICE APPLICATIONS. 18.3 LBS.	FAILSAFE FSP-22-42-35-CP125	3500K LED 80 CRI 4170 LM	0-10V DIMMING (100% - 10%)	UNV	39 W	
AJ2	RECESSED	SIMILAR TO TYPE AJ1 EXCEPT LOWER OUTPUT.	FAILSAFE FSP-22-25HE-35-CP125	3500K LED 80 CRI 2513 LM	0-10V DIMMING (100% - 10%)	UNV	20 W	
AK1	RECESSED	RECESSED LINEAR OPEN APERTURE LUMINAIRE, LINEAR COMPANION TO TYPE 'AA'. FABRICATED EXTRUDED ALUMINUM HOUSING WITH INTERNAL POLYMER REFLECTOR. HIGH OUTPUT. NOM. 4' L X 4" W X 4" D. MOUNTING IN ARMSTRONG CEILING GRIDS. 2.8 LBS/FT.	FINELITE HO4-R-D-RO-4'-H-835-OPN-96LG-VOLTAGE-SC-FC-1%-TZ6	3500K LED 80 CRI 3104 LM	0-10V DIMMING (100% - 1%)	UNV	27 W	
AK2	RECESSED	SIMILAR TO TYPE AK1 EXCEPT NOM. 8' LENGTH.	FINELITE HO4-R-D-RO-8'-H-835-OPN-96LG-VOLTAGE-SC-FC-1%-TZ6	3500K LED 80 CRI 6208 LM	0-10V DIMMING (100% - 1%)	UNV	54 W	
AK3	RECESSED	SIMILAR TO TYPE AK1 EXCEPT NOM. 12' LENGTH.	FINELITE HO4-R-D-RO-12'-H-835-OPN-96LG-VOLTAGE-SC-FC-1%-TZ6	3500K LED 80 CRI 9312 LM	0-10V DIMMING (100% - 1%)	UNV	81 W	
AK4	RECESSED	SIMILAR TO TYPE AK1 EXCEPT NOM. 16' LENGTH.	FINELITE HO4-R-D-RO-16'-H-835-OPN-96LG-VOLTAGE-SC-FC-1%-TZ6	3500K LED 80 CRI 12,416 LM	0-10V DIMMING (100% - 1%)	UNV	108 W	
AK5	RECESSED	SIMILAR TO TYPE AK1 EXCEPT NOM. 6' LENGTH.	FINELITE HO4-R-D-RO-6'-H-835-OPN-96LG-VOLTAGE-SC-FC-1%-TZ6	3500K LED 80 CRI 4,656 LM	0-10V DIMMING (100% - 1%)	UNV	41 W	
AL1	RECESSED	RECESSED WALL WASHER DISTRIBUTION DOWNLIGHT WITH FORMED STEEL CONSTRUCTION HOUSING, 4.5" ROUND APERTURE WITH BEVELED REFLECTOR AND 1" REGRESS. 4 3/4" DEEP HOUSING, 2 3/16" MAX. CEILING THICKNESS. WEIGHT: 10 LBS	USAI LIGHTING B4RW-F-09C3-35KS-W2-D2-BEVEL TRIM FINISH-FLANGE FINISH-NCSM-UNV-D6E	3500K LED 80 CRI 750 LM	0-10V DIMMING (100% - 1%)	UNV	9W	

Project Title:

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PARKS, RECREATION & WATERFRONT DEPARTMENT

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Exp. 6/25
ELECTRICAL
STATE OF CALIFORNIA

03/12/25

No.	Description	Date
	PERMIT SET	12/04/24
1	PLAN CHECK #1	03/07/25

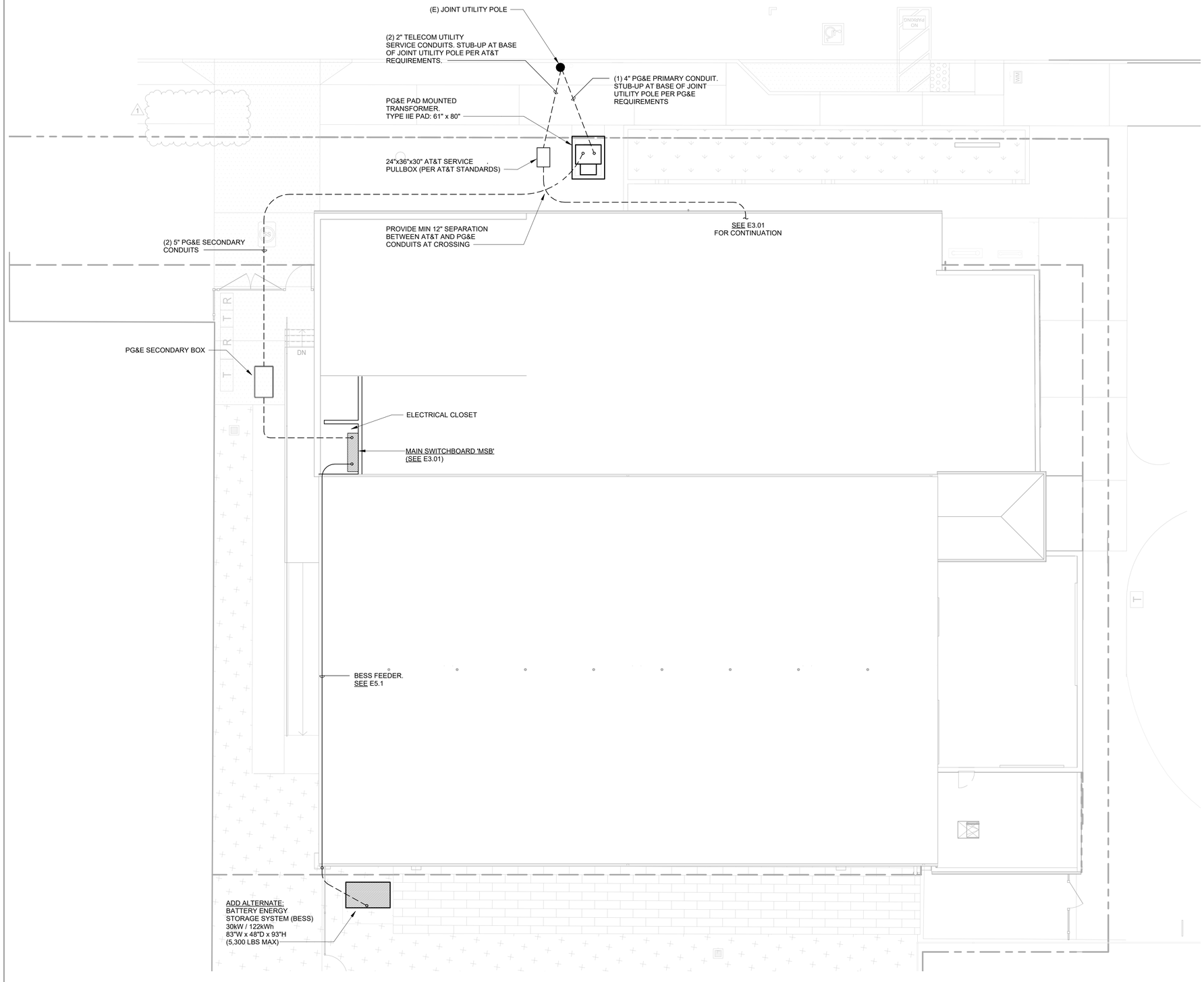
Issue Note: PERMIT RESUBMITTAL 03/07/25

City Plan No.:	8286
City File No.:	402-145
Specification No.:	#25-11695-C
Project ID:	YAP
Drawn by:	JK
Checked by:	PJC
Plot Date:	12/2/24
Scale:	

Sheet Title: LUMINAIRE SCHEDULE

Sheet No.: E0.03

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1 SITE PLAN - ELECTRICAL
1/8" = 1'-0"

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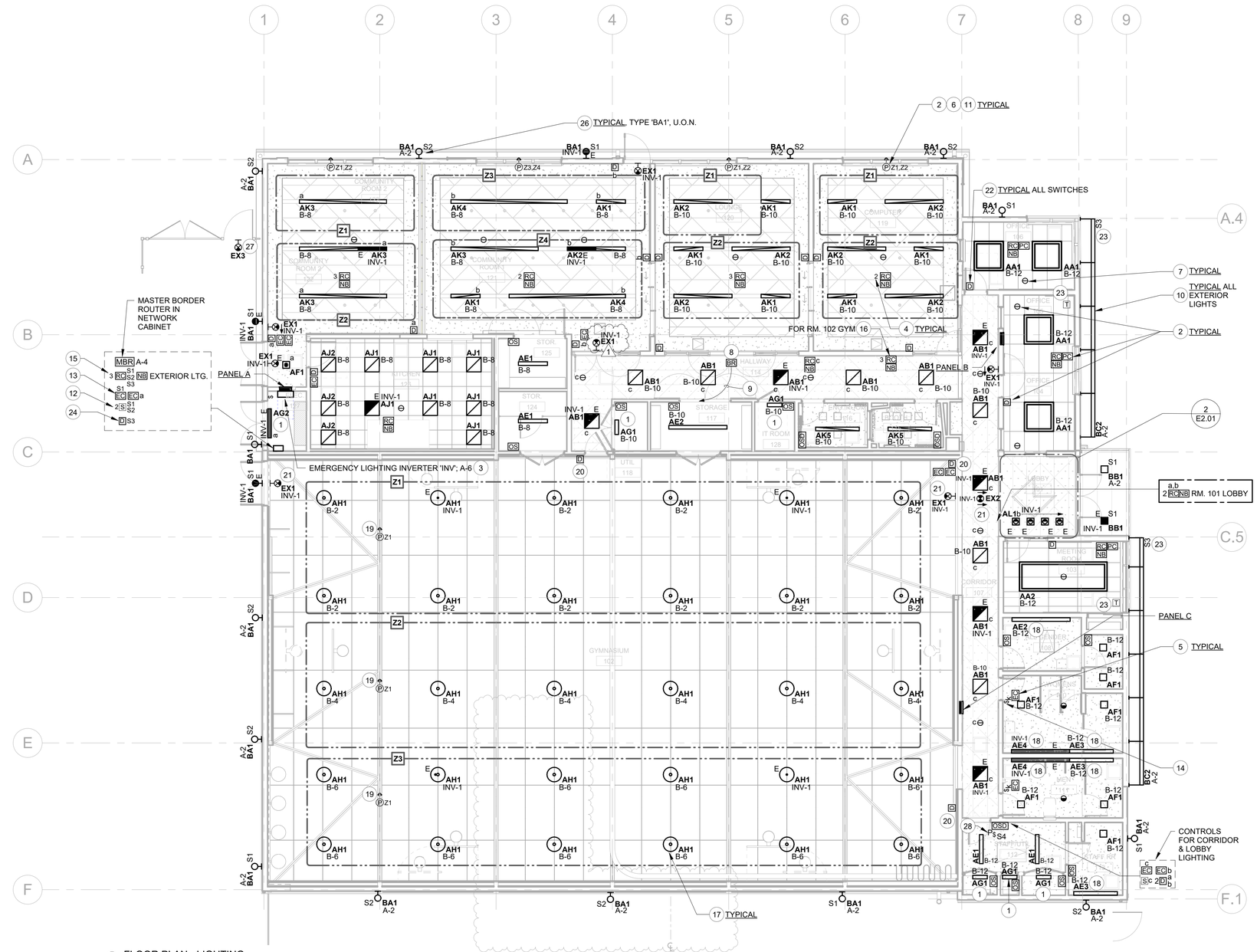
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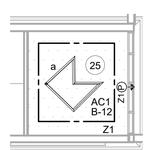
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SITE PLAN - ELECTRICAL

Sheet No.:
E1.01

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1 FLOOR PLAN - LIGHTING
1/8" = 1'-0"



2 Upper Lobby Pendant
1/8" = 1'-0"

NUMBERED SHEET NOTES

1. WALL MOUNTED ABOVE DOOR CASEMENT.
2. PROVIDE AND INSTALL DIMMER SWITCHES, OCCUPANCY SENSORS, ISOLATED RELAYS, PLUG CONTROLLERS, PHOTOSENSORS, ROOM CONTROLLERS, BORDER ROUTERS, AND NETWORK BRIDGES WHERE SHOWN. SEE DETAILS AND SCHEDULES ON SHEETS E5.02, E5.03, AND E5.04. MOUNT ROOM CONTROLLERS ABOVE ACCESSIBLE CEILING WHEREVER POSSIBLE.
3. SEE SHEET E5.03 FOR EMERGENCY LIGHTING INVERTER SPECIFICATIONS.
4. NUMERAL ADJACENT TO ROOM CONTROLLER INDICATES NUMBER OF CONTROL ZONES REQUIRED. VENDOR OR CONTRACTOR TO PROVIDE QUANTITY OF ROOM CONTROLLERS REQUIRED FOR THE NUMBER OF CONTROLLED ZONES.
5. PROVIDE AN EMERGENCY LIGHTING CONTROL MODULE FOR ALL SWITCHED LIGHT FIXTURES ON EMERGENCY INVERTER. THIS INCLUDES EMERGENCY FIXTURES CONTROLLED BY OCCUPANCY SENSORS. SEE 2/E5.03. MOUNT MODULE/TEST SWITCH AT 7'-6" A.F.F. AND ALIGN WITH LIGHT SWITCH BELOW WHEREVER POSSIBLE, OR ELSE LABEL MODULE WITH CORRESPONDING ROOM NAME.
6. COORDINATE WITH ALL OTHER TRADES TO ENSURE UNOBSTRUCTED PHOTOCELL "VIEW" OUT WINDOW.
7. MOUNT OCCUPANCY SENSOR AT LEAST 6'-0" FROM HVAC AIR VENTS. TYPICAL ALL OCCUPANCY SENSORS U.O.N.
8. INSTALL NO WIRELESS DEVICES WITHIN 10'-0" RADIUS OF THE BORDER ROUTER, INCLUDING WATTSTOPPER WIRELESS NETWORK BRIDGES AND THIRD-PARTY DEVICES SUCH AS WI-FI ADDRESS POINTS, SECURITY SYSTEMS, RFID TAGGING EQUIPMENT, ETC. COORDINATE THIS REQUIREMENT WITH GENERAL CONTRACTOR AND ALL TRADES.
9. CAT6A UTP CABLE TO MASTER BORDER ROUTER IN ELECTRIC ROOM. SEE DIAGRAM 1/E5.02.
10. ROUTE EXTERIOR LIGHTING CIRCUITS HOME VIA ROOM CONTROLLERS OR EMERGENCY CONTROL MODULES IN ELECTRIC ROOM. EXTERIOR LIGHTING IS TO BE SCHEDULED ON AND OFF BY THE MASTER BORDER ROUTER. SEE DETAILS ON E5.02, E5.03, AND E5.04. TYPICAL ALL EXTERIOR LUMINAIRES.
11. WATTSTOPPER LMLS-500 OPEN LOOP SENSOR, TYPICAL U.O.N.
12. TIMECLOCK BYPASS SWITCHES FOR EXTERIOR LIGHTING. ENGRAVE "EXTERIOR LIGHTS".
13. LABEL THIS EMERGENCY CONTROL MODULE "EXTERIOR LIGHTS".
14. KEY-OPERATED LINE-VOLTAGE SWITCH. CONNECT IN SERIES WITH OCCUPANCY SENSOR, ON LOAD SIDE OF SENSOR.
15. LABEL THIS ROOM CONTROLLER "EXTERIOR LIGHTS".
16. LABEL THIS ROOM CONTROLLER "GYM LIGHTS".
17. PENDANT MOUNTED AT 22'-0" A.F.F. TO THE BOTTOM OF THE LUMINAIRE. PROVIDE TWO-WAY SWAY BRACING TO ADJACENT TRUSS OR CEILING. SEE DETAIL 2/E7.03.
18. WALL MOUNTED AT 8'-0" A.F.F. TO THE BOTTOM OF THE LUMINAIRE.
19. WATTSTOPPER LMLS-400 CLOSED LOOP SENSOR. MOUNT TO BOTTOM OF TRUSS. PROVIDE AND INSTALL WIRE GUARD PROTECTIVE COVER. INSTALL LOW VOLTAGE WIRING FROM CEILING DOWN TO SENSOR IN RACEWAY, JUNCTION BOXES, CLAMPS, AND FASTENERS TO MATCH MOUNTING SURFACE TO THE ARCHITECT'S SATISFACTION.
20. PROVIDE AND INSTALL LOCKING PROTECTIVE COVER OVER DIMMER AND EMERGENCY CONTROL MODULES, FSR #WB-MR2G, RECESSED WALL BOX WITH COVER, WITHOUT WINDOW.
21. PROVIDE AND INSTALL POLYCARBONATE SECURITY COVER AT EXIT SIGNS IN GYM.
22. SEE 4/E5.03 FOR SWITCH TYPE TO BE USED.
23. ARM-MOUNTED AT CENTERLINE OF OVERHANGING FASCIA AT TOP OF EXTERIOR WALLS. VERIFY EXACT MOUNTING LOCATION WITH ARCHITECT. REMOTE DRIVERS FOR EACH SECTION SHALL BE LOCATED IN ADJACENT ACCESSIBLE CEILINGS. GROUP DRIVERS TOGETHER AT LOCATION SHOWN ON PLAN. PROVIDE AND INSTALL #16 WIRE BETWEEN EACH LUMINAIRE SECTION AND EACH REMOTE DRIVER.
24. ENGRAVE DIMMER "EXT LINEAR WW".
25. PENDANT MOUNTED AT A 20 DEGREE ANGLE ALONG THE EAST-WEST AXIS, HIGHER SIDE EAST TOWARD LOBBY ENTRANCE DOORS TO CAST INDIRECT LIGHT ONTO FEATURE WALL. LOWEST CORNER SHALL BE MOUNTED AT 14'-0" A.F.F. TO BOTTOM OF LUMINAIRE. SEE DETAIL 1/E7.03.
26. WALL MOUNTED AT 10'-9" A.F.F. TO BOTTOM OF LUMINAIRE.
27. MOUNT PHOTOLUMINESCENT EXIT SIGN TO ENCLOSURE GATE, AT 6'-0" ABOVE GRADE TO THE BOTTOM OF THE LUMINAIRE. VERIFY EXACT MOUNTING LOCATION WITH ARCHITECT.
28. LINE VOLTAGE SWITCH WITH PILOT LIGHT, FOR CONTROL OF LIGHTS IN MECHANICAL SPACE ON ROOF. SEE E3.02. MOUNT SWITCH ADJACENT TOP OF LADDER, SO IT IS ACCESSIBLE WHILE STANDING ON THE LADDER.

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JAMES C. COLEMAN
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Exp. 6/25
ELECTRICAL
STATE OF CALIFORNIA
03/12/25

No.	Description	Date
	PERMIT SET	12/04/24
1	PLAN CHECK #1	03/07/25

Issue Note: PERMIT RESUBMITTAL 03/07/25

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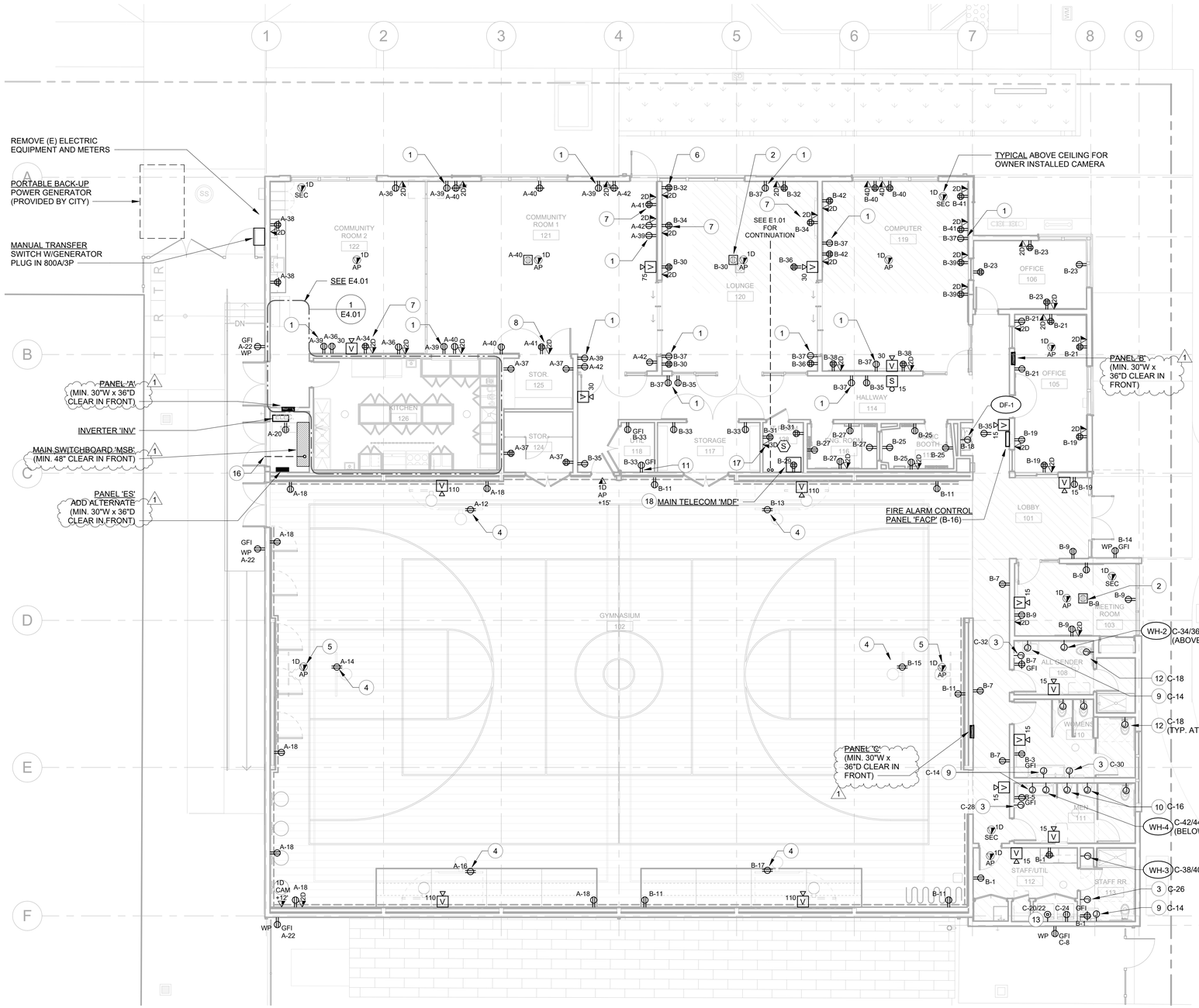
Sheet Title:

FLOOR PLAN - LIGHTING

Sheet No.:

E2.01

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1 FLOOR PLAN - POWER & SIGNAL
1/8" = 1'-0"

NUMBERED SHEET NOTES

1. 20A DUPLEX RECEPTACLE MOUNTED AT 8' A.F.F. FOR SEASONAL HAUNTED HOUSE USE.
2. FLUSH IN-FLOOR.
3. ELECTRIC HAND DRYERS. VERIFY EXACT LOCATION AND MOUNTING HEIGHT, PRIOR TO ROUGH-IN.
4. FOR ELECTRIC BASKETBALL BACKSTOP MOTOR CONNECTION (AT STRUCTURE ABOVE). COORDINATE WITH WINCH INSTALLER PRIOR TO ROUGH-IN.
5. WI-FI TELECOM JACKS AT STRUCTURE ABOVE. COORDINATE EXACT LOCATION WITH CITY IT STAFF PRIOR TO ROUGH-IN.
6. LAPTOP CHARGING CART.
7. AT +/- 5' A.F.F. BEHIND FLAT PANEL DISPLAY.
8. ABOVE DOORS, BEHIND FLAT PANEL DISPLAY.
9. BELOW SINK AT ELECTRIC VALVE FOR LAVS.
10. AT WALL FOR ELECTRIC VALVE AT URINALS.
11. FOR CP-1 AND DMV-1.
12. AT WALL FOR ELECTRIC VALVE AT WATER CLOSETS.
13. NEMA 14-30R FOR DRYER.
14. CONNECT WITH (2)#3 & (1)#8G IN 1"C.
15. CONNECT WITH (2)#10 & (1)#10G IN 1/2"C.
16. SEE E1.01 FOR CONTINUATION.
17. (2) DATA AND (1) POTS LINE FOR SECURITY SYSTEM.
18. 7'H WALL MOUNTED, FLOOR SUPPORTED, SWING-OUT STYLE; CHATSWORTH CUBE-IT OR EQUAL WITH PATCH PANELS AND WIRE MANAGEMENT PER 270000.

SECURITY SYSTEM NOTES

REFER TO SECURITY SYSTEM "SE" SERIES PLANS FOR CONDUIT AND WIRING REQUIREMENTS FOR THE BUILDING SECURITY SYSTEM.

GENERAL ELECTRICAL NOTES

MAINTAIN ALL CODE REQUIRED CLEARANCES FOR ELECTRICAL EQUIPMENT (PANELS AND DISCONNECTS) LIKELY TO REQUIRE SERVICE WHILE ENERGIZED, PER CEC 110.26

DEFERRED APPROVAL NOTES

THE FIRE ALARM SYSTEM (FA) IS TO BE A DEFERRED APPROVAL ITEM.

CONTRACTOR TO PROVIDE COMPLETE DESIGN AND SHOP DRAWING SUBMITTAL FOR SEPARATE PERMIT APPLICATION THROUGH THE AHJ / LOCAL FIRE MARSHAL.

SEE SECTION 283101 FOR ADDITIONAL REQUIREMENTS.

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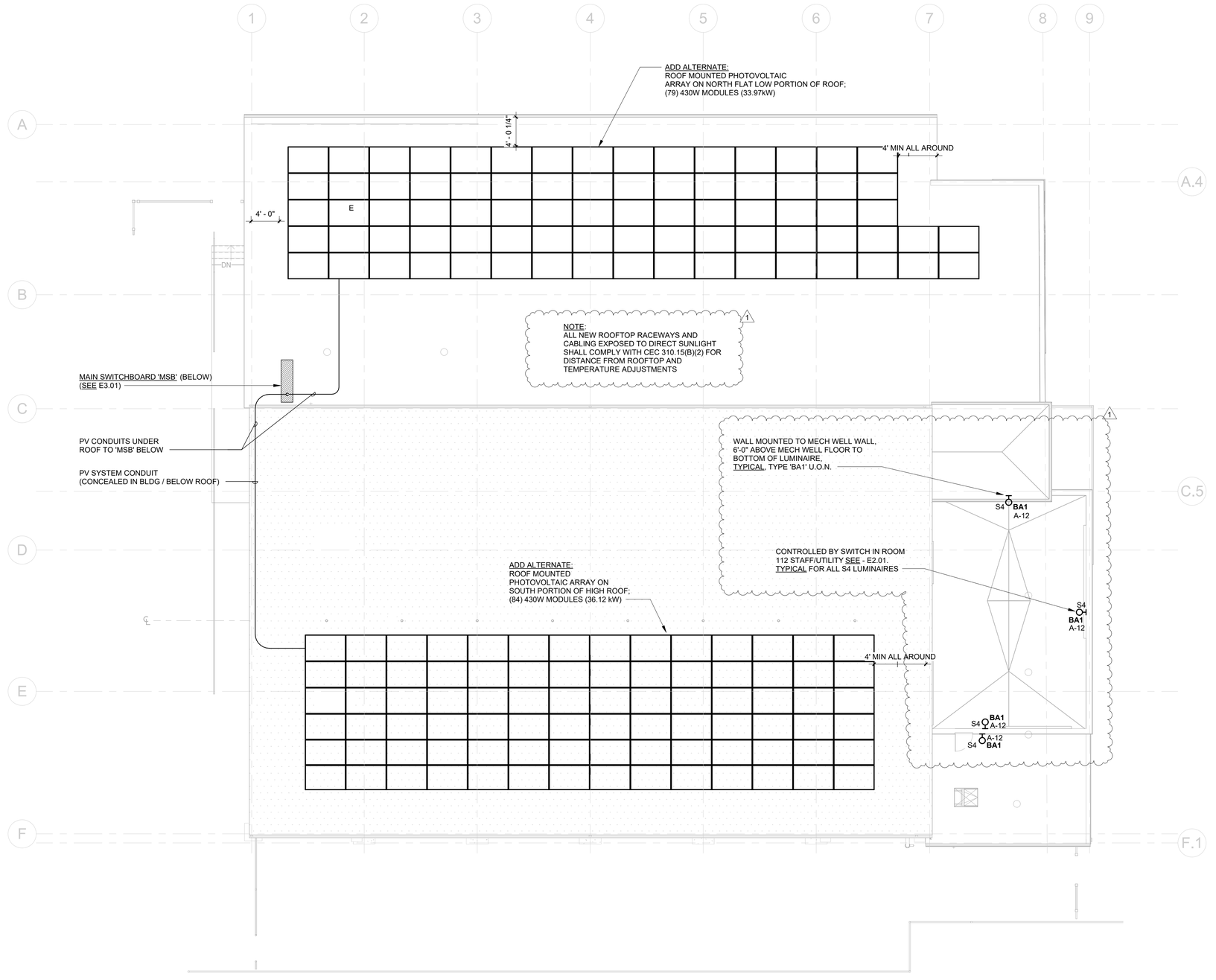
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Scale:	1/8" = 1'-0"

Sheet Title:
FLOOR PLAN - POWER & SIGNAL

Sheet No.:
E3.01

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1 ROOF PLAN - ELECTRICAL
1/8" = 1'-0"

Project Title:

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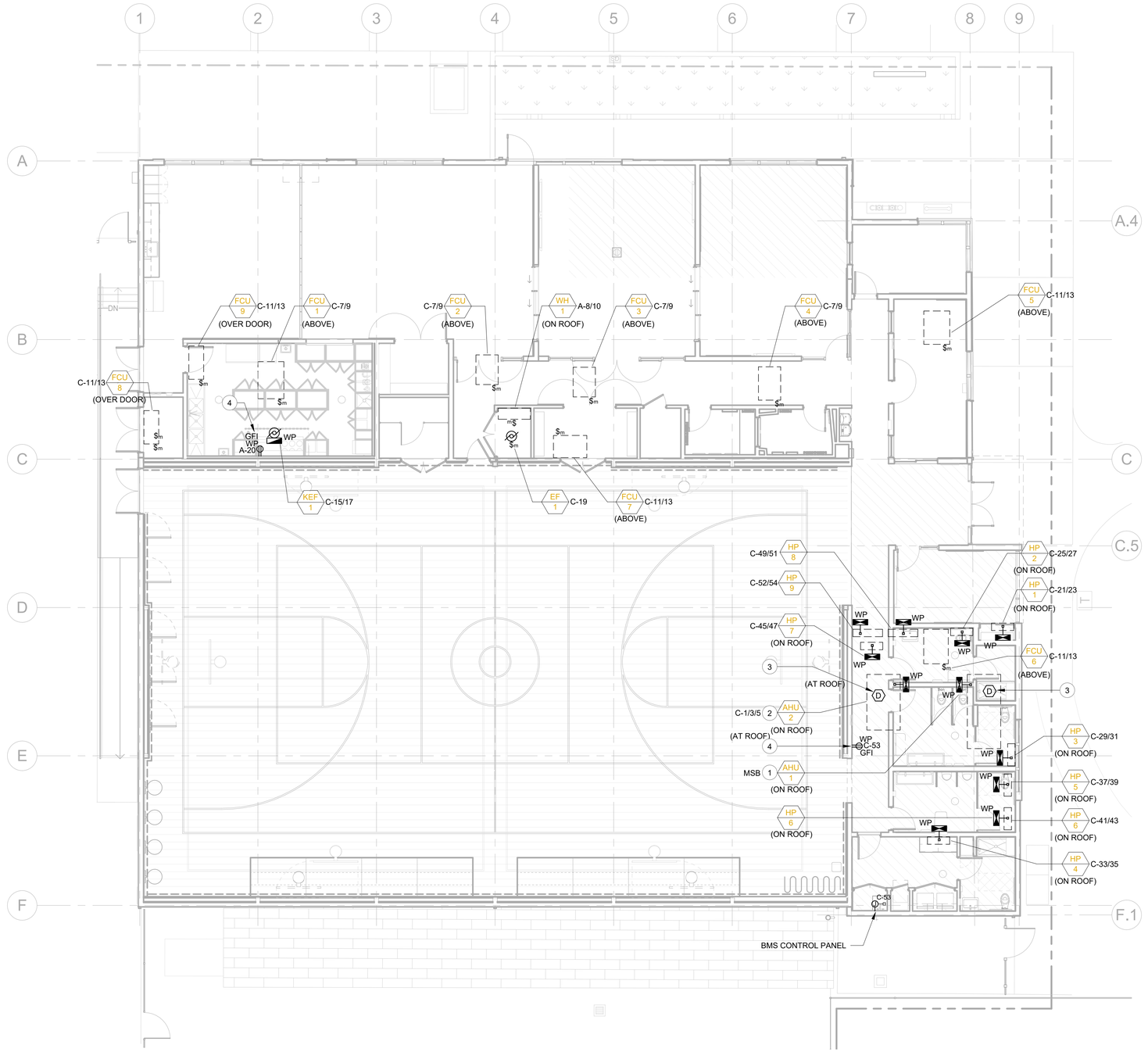
Sheet Title:

ROOF PLAN-
ELECTRICAL

Sheet No.:

E3.02

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1 FLOOR PLAN - MECHANICAL
1/8" = 1'-0"

NUMBERED SHEET NOTES

1. SEE E5.01 FOR SIZING.
2. (3)#8 & (1)#10G IN 3/4"C.
3. PROVIDE DUCT SMOKE DETECTOR FOR AUOT SHUT-OFF. COORDINATE WITH DIV. 23.
4. AT ROOF EQUIPMENT.

1 GENERAL ELECTRICAL NOTES

MAINTAIN ALL CODE REQUIRED CLEARANCES FOR ELECTRICAL EQUIPMENT DISCONNECTS LIKELY TO REQUIRE SERVICE WHILE ENERGIZED, PER CEC 110.26

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Sheet Title: FLOOR PLAN - MECHANICAL

Sheet No.: E3.03

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NUMBERED SHEET NOTES

1. CONNECT WITH (4)#4 & (1)#8G IN 1.25"C.
2. ABOVE COUNTER. COORDINATE EXACT HEIGHT PRIOR TO ROUGH-IN.
3. ON SIDE OF ISLAND JUST BELOW COUNTERTOP.

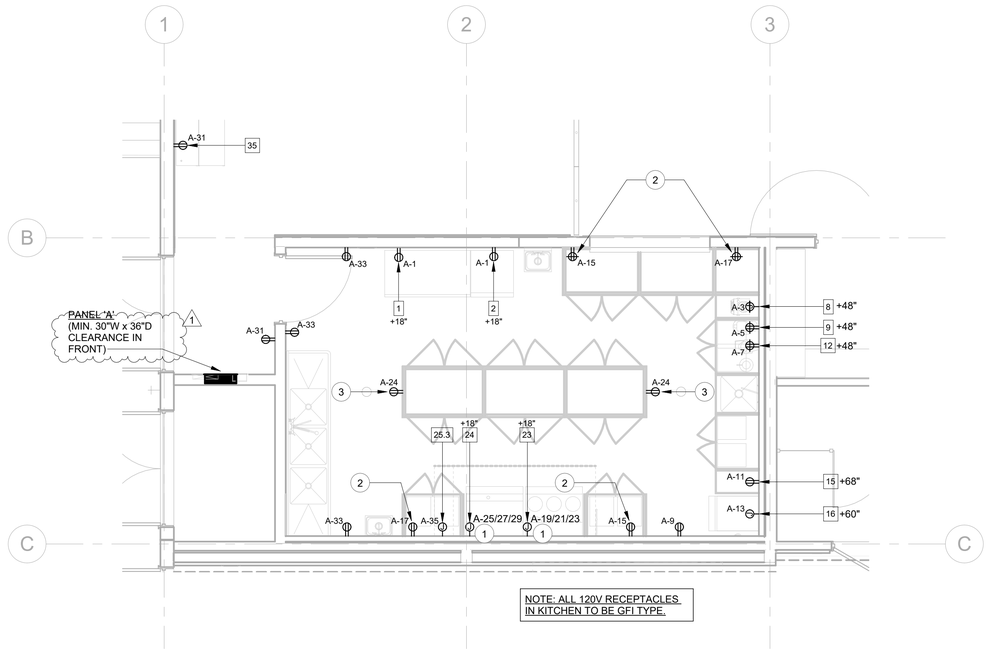
GENERAL KITCHEN NOTES

REFER TO FOOD SERVICE "FS" SERIES PLANS FOR ALL KITCHEN RELATED ELECTRICAL AND ROUGH-IN REQUIREMENTS.

FOOD SERVICE PLANS TAKE PRECEDENSE OVER THIS ELECTRICAL PLAN, IF CONFLICTS OCCUR.

VERIFY ALL ROUGH-IN WITH FOOD SERVICE PLANS, PRIOR TO ROUGH-IN.

ALL 120V RECEPTACLES IN KITCHEN TO BE GFCI TYPE.



1 PARTIAL PLAN - KITCHEN
1/4" = 1'-0"

Project Title:

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Sheet Title:

PARTIAL PLAN - KITCHEN

Sheet No.:

E4.01

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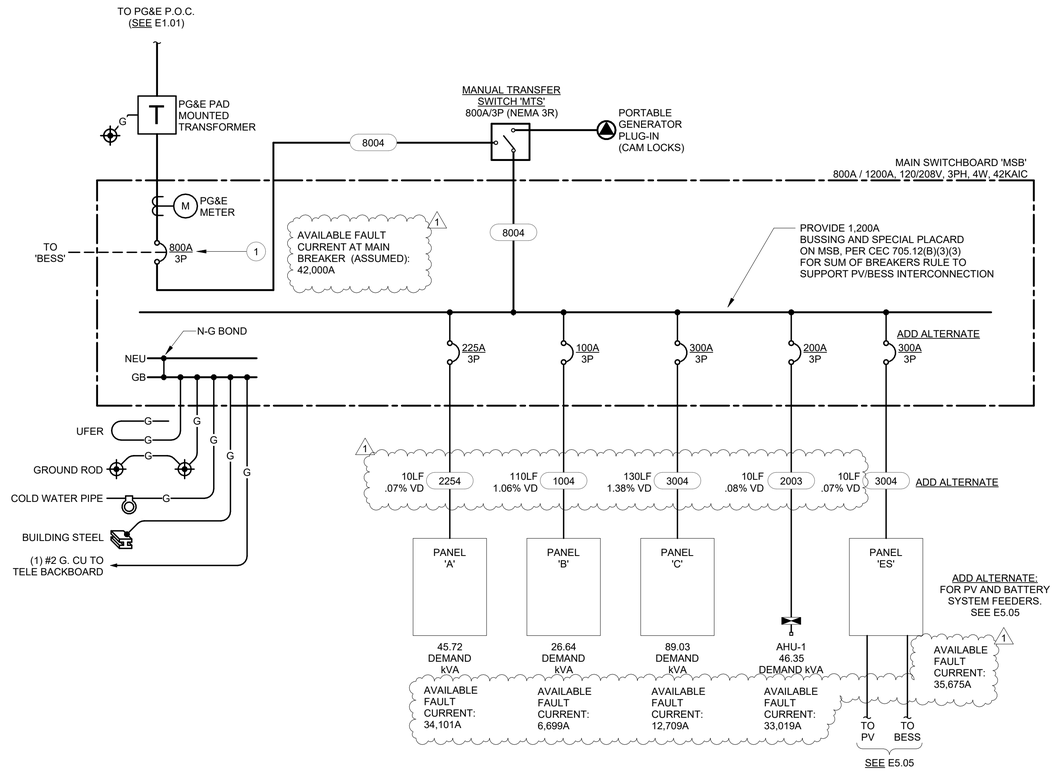
COPPER FEEDER SCHEDULE		
ID	CONDUIT	CONDUCTORS
8004	(2) 4"	(2) SETS: (4) 500 MCM & (1)#1/0 G.
3004	(1) 3"	(4) 350 MCM & (1)<varies> G.
2254	(1) 3"	(4) #4/0 & (1)#4 G.
2003	(1) 2"	(3) #3/0 & (1)#4 G.
1004	(1) 2"	(4) #1 & (1)#6 G.

NUMBERED SHEET NOTES

1. PROVIDE MOTORIZED BREAKER WITH INPUT FROM BESS TO ALLOW UTILITY ISOLATION UPON SIGNAL FROM BESS CONTROLLER. MOTORIZED BREAKER TO BE BASE BID, TO ALLOW FOR FUTURE BESS OF ADD ALTERNATE NOT ACCEPTED.

GENERAL ELECTRICAL NOTES

1. CONTRACTOR SHALL OBTAIN AVAILABLE SHORT CIRCUIT CURRENT LETTER FROM PG&E TO IDENTIFY THE AVAILABLE SHORT CIRCUIT CURRENT AT THE MAIN SERVICE ENTRANCE. 42,000AIC MAX ASSUMED FOR BASIS OF DESIGN, PRIOR TO PG&E DATA BEING AVAILABLE.
2. ALL ELECTRICAL EQUIPMENT (PANELS AND CIRCUIT BREAKERS) SHALL MEET OR EXCEED THE REQUIRED SHORT CIRCUIT CURRENT RATING.



1 SINGLE LINE DIAGRAM - POWER
12" = 1'-0"

Project Title:

CITY OF BERKELEY
PARKS, RECREATION & WATERFRONT DEPARTMENT

MLK JR YOUTH SERVICES CENTER / YAP

1730 Oregon Street, Berkeley, CA 94703
APN#: 053-1676-001-02

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SIEGEL & STRAIN Architects
6201 Doyle Street, Suite B
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REGISTERED PROFESSIONAL ENGINEER
PAUL J. COLEMAN
No.E14738
Exp. 6/25
ELECTRICAL
STATE OF CALIFORNIA

03/12/25

No.	Description	Date
	PERMIT SET	12/04/24
1	PLAN CHECK #1	03/07/25

Issue Note: PERMIT RESUBMITTAL 03/07/25

City Plan No.:	8286
City File No.:	402-145
Specification No.:	#25-11695-C
Project ID:	YAP
Drawn by:	JK
Checked by:	PJC
Plot Date:	12/2/24
Scale:	12" = 1'-0"

Sheet Title:

SINGLE LINE DIAGRAM - POWER

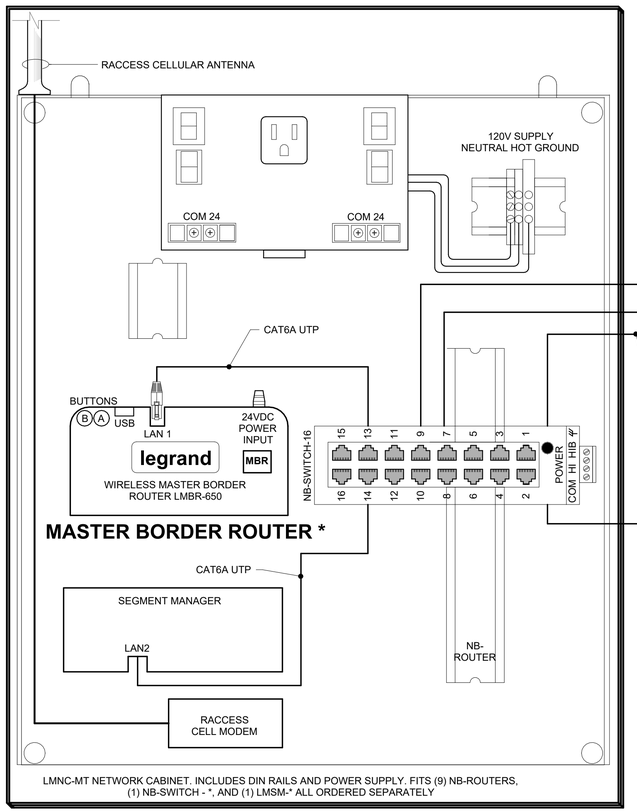
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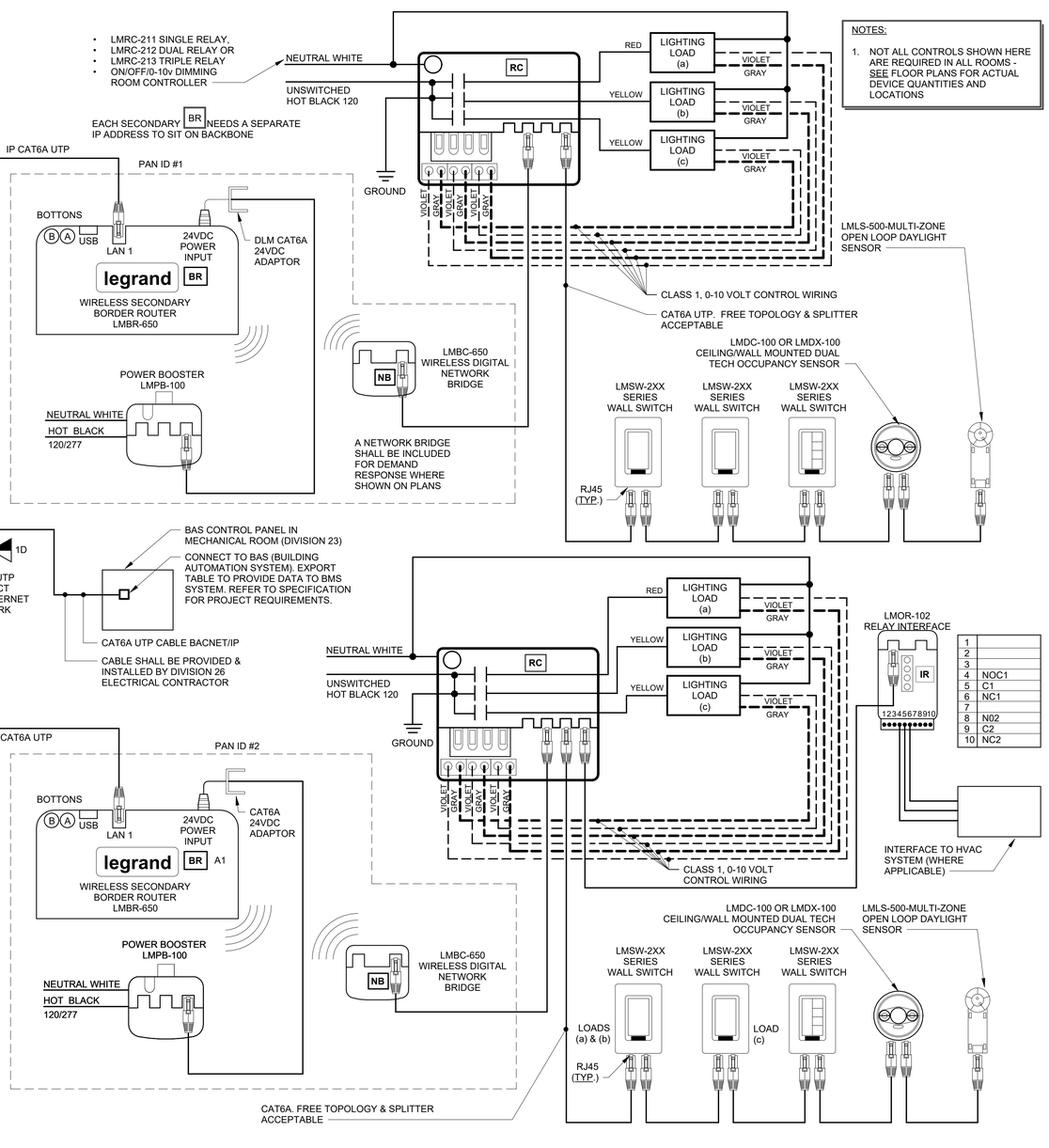
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MULTI-ZONE 0-10V DIMMED APPLICATION WITH CEILING MOUNTED OCCUPANCY SENSORS FOR PARTIAL OFF, AUTO OFF, AND MANUAL DIMMING. LIGHTS WILL TURN ON MANUALLY, OR AUTOMATICALLY FROM THE OCCUPANCY SENSOR UPON ENTERING THE SPACE, AND CAN BE DIMMED MANUALLY FROM THE DEVICE ON THE WALL. SEE SEQUENCE OF OPERATIONS. IN CORRIDORS, LIGHTS WILL DIM DOWN TO A 50% LIGHT LEVEL WHEN THE SPACE IS UN-OCCUPIED DURING THE BUILDINGS "OCCUPIED HOURS" UPON ENTERING THE "AFTER HOURS" MODE, THE SAME OCCUPANCY SENSORS WILL AUTOMATICALLY TURN THE LIGHTS OFF WHEN THE CORRIDOR IS UNOCCUPIED. TIME-OUT OF SENSOR TO BE SET AT 20 MINUTES U.O.N.

* THE WIRELESS MASTER BORDER ROUTER DOES NOT CONNECT DIRECTLY TO WIRELESS DLM NETWORKS. IT ACTS AS THE MASTER SCHEDULING DEVICE FOR ALL WIRELESS DLM NETWORKS. A MASTER BORDER ROUTER IS REQUIRED ON ALL PROJECTS.
MASTER BORDER ROUTERS WILL SUPPORT UP TO 12 LMBR-650'S. IF YOUR SYSTEM IS LARGER THAN THIS, ADD ANOTHER MASTER BORDER ROUTER.





NOTES:

1. NOT ALL CONTROLS SHOWN HERE ARE REQUIRED IN ALL ROOMS - SEE FLOOR PLANS FOR ACTUAL DEVICE QUANTITIES AND LOCATIONS

EMS SYSTEM INTERFACE:

1. COORDINATE WITH DISTRICT EMS SYSTEM FOR BACNET INTERFACE BETWEEN LIGHTING CONTROLS & EMS SYSTEM.
2. PROVIDE BACNET INTERFACE EXPORT TABLE DATA FOR PROPER BINDINGS.
3. CONSULT DISTRICT FOR SPECIFIC STATUS & CONTROL FUNCTIONS TO BE INCLUDED IN INTERFACE.

BAS INTEGRATION
DIV 23 BUILDING AUTOMATION SYSTEMS CONTRACTOR TO PROVIDE BACNET INTEGRATION SERVICES FOR LIGHTING CONTROL SYSTEM BASED UPON LIGHTING CONTROL SYSTEM MFR'S BACNET POINTS.

1 TYPICAL WIRELESS NETWORK ENCLOSURE WITH MULTIPLE WIRELESS ROUTERS
NO SCALE

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PARKS, RECREATION & WATERFRONT DEPARTMENT

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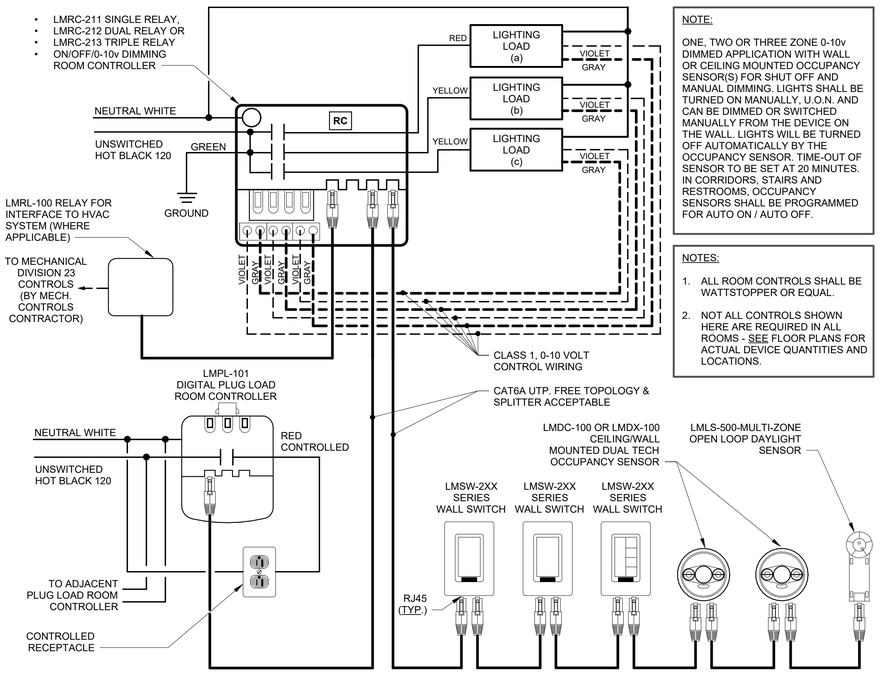
Sheet Title:
LIGHTING CONTROLS

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E5.02

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INVERTER UNIT SPECIFICATIONS

1. ALL EMERGENCY SOURCE CIRCUITS SHALL BE INSTALLED IN SEPARATE RACEWAYS (FROM NORMAL POWER), PER 2020 NEC 700.10(B), OR APPLICABLE CODE AT THE TIME OF PERMITTING.
2. REFER ALSO TO SPECIFICATIONS SECTION 265101. UNITS SHALL BE MYERS POWER PRODUCTS ILLUMINATOR SERIES EM:
   'INV': 1-EM-2-S-BA2003-M-Z-2YW-5YW
3. UNITS SHALL BE 120V 1PH 2W INPUT, 120V OUTPUT WITH 20AMP OUTPUT CIRCUIT BREAKER, RATED AS FOLLOWS:
   'INV': 1600VA
4. INPUT SHALL BE EQUIPPED WITH ANSI 62.41 SURGE PROTECTION AND 1HZ NOMINAL SYNCHRONIZING SLEW RATE.
5. OUTPUT VOLTAGE STATIC REGULATION SHALL BE +/- 5% FOR 100% RESISTIVE LOAD.
6. OUTPUT DISTORTION SHALL BE 5% THD MAXIMUM.
7. OVERLOAD RATING: 150% MOMENTARY; 120% FOR 5 MINUTES.
8. TRANSFER TIME: NO BREAK
9. BATTERY SHALL BE SEALED LEAD CALCIUM, 10 YEAR LIFE, 90 MINUTE RUN TIME, WITH AUTO-DISCONNECT FOR LOW BATTERY VOLTAGE.
10. PROVIDE RS232 PORT FOR EXTERNAL COMMUNICATIONS.
11. INVERTER SHALL BE PWM TYPE.
12. PROVIDE INTERNAL MAINTENANCE BYPASS.
13. PROVIDE IN NEMA 1 ENCLOSURE, FRONT ACCESS ONLY, FLOOR MOUNT.
14. PROVIDE FACTORY STARTUP AND TEST OF UNIT TO THE SATISFACTION OF BUILDING INSPECTION AUTHORITIES AND WITH MAXIMUM 4 HOURS OF PERSONNEL TRAINING FOLLOWING STARTUP.
15. AUTO SELF TESTING.
16. PROVIDE OUTPUT CIRCUIT BREAKERS RATED 20AMPS EACH WITH DEDICATED CIRCUITS FOR EACH OF THE EMERGENCY LIGHTING LOADS:
    'INV' 3 OUTPUT BREAKERS
17. SEISMIC QUALIFIED.
18. SUBMIT FOR REVIEW AND APPROVAL.
19. PROVIDE 5-YEAR EXTENDED ELECTRONICS WARRANTY.



NOTE:

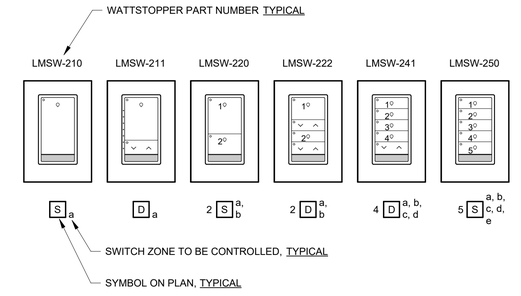
ONE, TWO OR THREE ZONE 0-10v DIMMED APPLICATION WITH WALL OR CEILING MOUNTED OCCUPANCY SENSOR(S) FOR SHUT OFF AND MANUAL DIMMING. LIGHTS SHALL BE TURNED ON MANUALLY, U.O.N. AND CAN BE DIMMED OR SWITCHED MANUALLY FROM THE DEVICE ON THE WALL. LIGHTS WILL BE TURNED OFF AUTOMATICALLY BY THE OCCUPANCY SENSOR. TIME-OUT OF SENSOR TO BE SET AT 20 MINUTES. IN CORRIDORS, STAIRS AND RESTROOMS, OCCUPANCY SENSORS SHALL BE PROGRAMMED FOR AUTO ON / AUTO OFF.

NOTES:

1. ALL ROOM CONTROLS SHALL BE WATTSTOPPER OR EQUAL.
2. NOT ALL CONTROLS SHOWN HERE ARE REQUIRED IN ALL ROOMS - SEE FLOOR PLANS FOR ACTUAL DEVICE QUANTITIES AND LOCATIONS.

3 ONE, TWO, OR THREE ZONE ROOM & PLUG CONTROLLER
NO SCALE

NOTE: NOT ALL TYPES ARE USED ON EVERY PROJECT. REFER TO FLOOR PLANS FOR QUANTITIES REQUIRED.

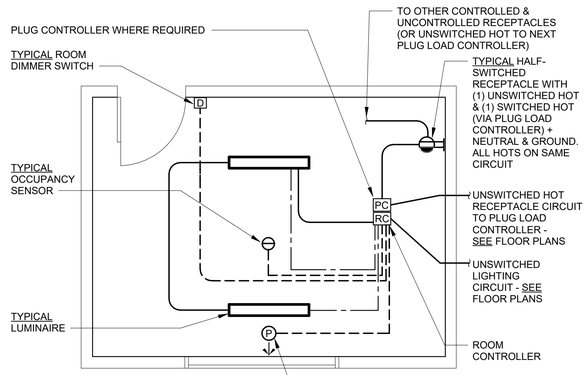


4 SWITCHES USED ON PLANS
1" = 1'-0"

WIRING LEGEND

- BRANCH CIRCUIT WIRING - PROVIDED AND INSTALLED BY CONTRACTOR. EXACT QUANTITY, TYPE AND SIZE VARIES
- CAT6A UTP CABLING - PROVIDED AND INSTALLED BY CONTRACTOR, VERIFY WIRE TYPE WITH LIGHTING CONTROL MANUFACTURER
- 0-10V DIMMING CONTROL WIRING

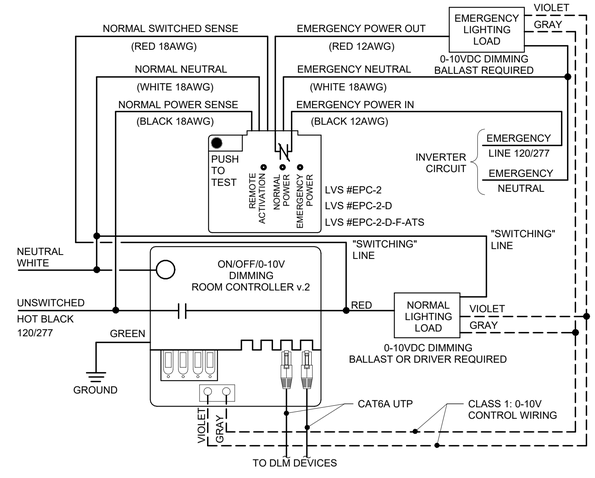
THE ELECTRICAL CONTRACTOR SHALL BALANCE THE DUAL TECHNOLOGY OCCUPANCY SENSORS FOR PROPER SENSOR FUNCTIONALITY. THE ULTRASONIC SENSITIVITY MAY NEED TO BE TUNED TO ELIMINATE FALSE TRIPPING FROM THE HVAC SUPPLY REGISTERS. IDEAL SENSOR PLACEMENT PER MANUFACTURER'S RECOMMENDATIONS IS 6'-0" FROM ANY AIR SUPPLY REGISTER WHEREVER POSSIBLE.



NOTE:
SEE SPECIFIC ROOM CONTROLLER WIRING DIAGRAMS FOR EACH APPLICATION

1 TYPICAL ROOM CONTROL DIAGRAM
NO SCALE

SEQUENCE OF OPERATION:
UPON THE LOSS OF NORMAL POWER, THE LVS EMERGENCY CONTROL MODULE WILL BYPASS THE ROOM CONTROLLER AND FORCE THE EMERGENCY FIXTURES **ON**. THE ROOM CONTROLLER WILL FORCE THE DIMMED EMERGENCY FIXTURE TO 100%. THE LVS IS UL924 LISTED.



2 EMERGENCY LIGHTING CONTROL MODULE WIRING DIAGRAM FOR DIMMED EMERGENCY FIXTURES CONTROLLED BY 0-10V DIMMING ROOM CONTROLLER
NO SCALE

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Stamp:

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03/12/25

No.	Description	Date
	PERMIT SET	12/04/24
1	PLAN CHECK #1	03/07/25

Issue Note: PERMIT RESUBMITTAL 03/07/25

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Specification No.:	#25-11695-C
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Drawn by:	Author
Checked by:	Checker
Plot Date:	12/2/24
Scale:	As indicated

Sheet Title:
LIGHTING CONTROLS

Sheet No.:
E5.03

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LIGHTING CONTROLS SEQUENCE OF OPERATION

ROOM TYPE	OCCUPANCY SENSOR					PHOTOCELL		TIME CLOCK		SYSTEM		REMARKS
	AUTO ON	MANUAL ON	AUTO OFF	PARTIAL OFF AT NORMAL HOURS	AUTO OFF AFTER HOURS	AUTO DIM @ TARGET FC	SET LEVEL FC	ASTRONOMICAL TIME CLOCK	MANUAL OVERRIDE DELAY	PLUG LOAD	DEMAND RESPONSE (NOTE 5)	
COMMUNITY ROOM		X	20 MIN			X	60 AT WORK PLANE				DIM 20%	
COMPUTER		X	20 MIN			X	60 AT WORK PLANE			X	DIM 20%	RECEPTACLES CONTROLLED BY OCCUPANCY SENSOR
ENGINEERING		X	20 MIN								NOT REQUIRED	
GYMNASIUM						X	45 AT WORK PLANE	X	2 HR		DIM 20%	
HALLWAY	X		20 MIN	DIM TO 30%	X	X	45				DIM 20%	
LOBBY						X	45 AT WORK PLANE	X	2 HR	X	DIM 20%	RECEPTACLES CONTROLLED BY BORDER ROUTER
LOUNGE		X	20 MIN			X	60 AT WORK PLANE				DIM 20%	
MEETING ROOM		X	20 MIN			X	60 AT WORK PLANE			X	DIM 20%	RECEPTACLES CONTROLLED BY OCCUPANCY SENSOR
MUSIC BOOTH		X	20 MIN								NOT REQUIRED	
OFFICE		X	20 MIN			X	60 AT WORK PLANE			X	DIM 20%	RECEPTACLES CONTROLLED BY OCCUPANCY SENSOR
RESTROOM, SHOWER	X		20 MIN								NOT REQUIRED	
STAFF/UTILITY	X		20 MIN								NOT REQUIRED	AUTO ON BY UTRASONIC DETECTION
STORAGE		X	20 MIN								NOT REQUIRED	
EXTERIOR LIGHTS, ZONE S1								X	2 HR		NOT REQUIRED	ON DUSK TO DAWN
EXTERIOR LIGHTS, ZONE S2								X	2 HR		NOT REQUIRED	ON DUSK TO LATE EVENING. OBTAIN SCHEDULE FROM DISTRICT.
EXTERIOR LIGHTS, ZONE S3								X	2 HR		NOT REQUIRED	100% POWER OUTPUT FROM DUSK TO LATE EVENING AND 20% POWER OUTPUT FROM LATE EVENING TO DAWN. OBTAIN SCHEDULE FROM DISTRICT, AND CONFIRM SETTINGS WITH DISTRICT PRIOR TO PROGRAMMING.

NOTES:
1. THIS SCHEDULE IS NOT INTENDED TO DEFINE WHICH CONTROLS ARE TO BE INSTALLED IN EACH SPACE TYPE.
2. FOR ACTUAL CONTROL DEVICES TO BE INSTALLED IN EACH SPACE, REFER TO PLANS.
3. ALL SETPOINTS AND TIME SCHEDULES TO BE VERIFIED WITH OWNER PRIOR TO PROGRAMMING.
4. FOOTCANDLE LEVELS BASED ON THE IESNA LIGHTING STANDARDS. LIGHTING LEVELS SUBJECT TO CHANGE PER ENERGY CODE COMPLIANCE AND OWNER REQUEST AND ARE MEANT TO BE USED AS A BASELINE DEFAULT FOR PROGRAMMING.
5. DEMAND RESPONSE CONTROLS ARE ONLY REQUIRED IF QUALIFYING LIGHTING LOAD EXCEEDS 4000 WATTS. IF DEMAND RESPONSE REQUIRED, TOTAL AREA LIGHTING POWER MUST BE REDUCED BY AT LEAST 15%.

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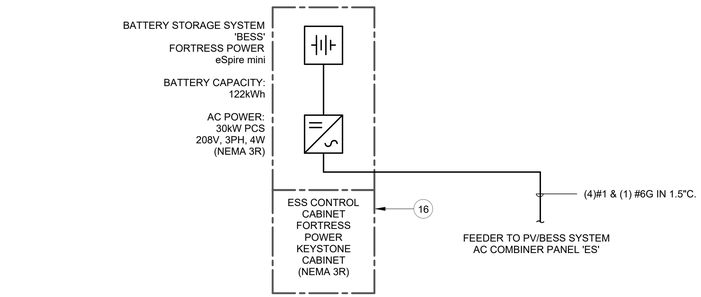
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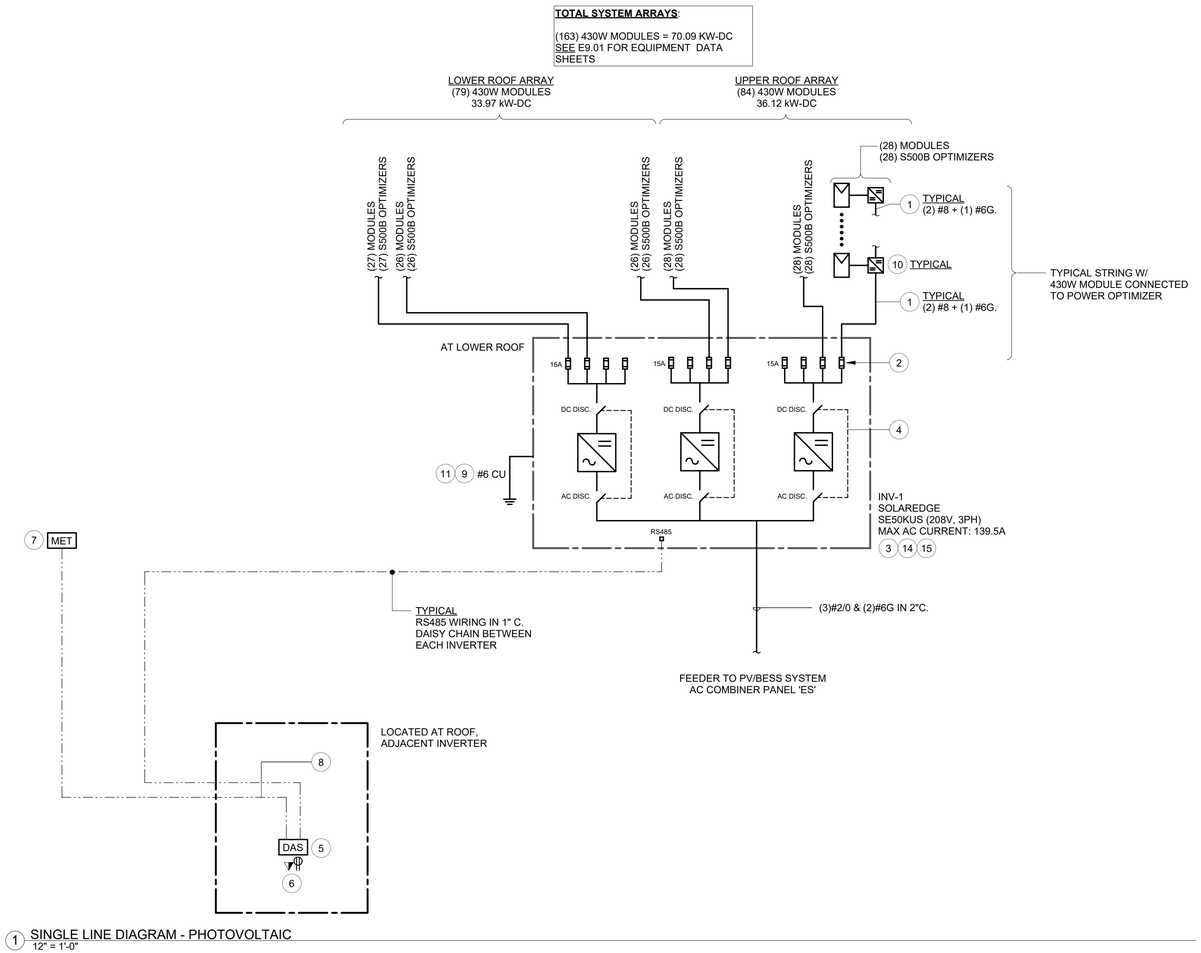
Sheet Title: LIGHTING CONTROLS

Sheet No.: E5.04

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2 SINGLE LINE DIAGRAM - 'BESS'
12" = 1'-0"



1 SINGLE LINE DIAGRAM - PHOTOVOLTAIC
12" = 1'-0"

DEFERRED APPROVAL NOTES

THE PHOTOVOLTAIC SYSTEM (PV) AND BATTERY ENERGY STORAGE SYSTEM (BESS) ARE TO BE DEFERRED APPROVAL ITEMS.

CONTRACTOR TO PROVIDE COMPLETE DESIGN AND SHOP DRAWING SUBMITTALS FOR SEPARATE PERMIT APPLICATION THROUGH THE AHJ.

SEE SECTION 263101 (PV) AND 263201 (BESS) FOR ADDITIONAL REQUIREMENTS.

1

PV GENERAL NOTES

1. UNLESS OTHERWISE NOTED, ALL WORK SHOWN ON DRAWINGS IS NEW AND TO BE PROVIDED AND INSTALLED UNDER THIS CONTRACT.
2. ALL EXTERIOR EQUIPMENT / BOXES / COMBINERS SHALL BE NEMA 3R RATED FOR OUTDOOR USE.
3. ALL BARE METAL RACEWAYS SHALL BE RGS; U.O.N.
4. ALL CONDUCTORS TO BE SIZED PER CEC T310.15(B)(16) WITH APPROPRIATE AMBIENT TEMPERATURE CORRECTION FACTORS PER CEC T310.15(B)(3)(c) AND/OR CEC 310.15(B)(2). CONDUCTORS SHALL ALSO BE DERATED PER CEC TABLE 310.15(B)(3)(a) FOR MORE THAN (3) CURRENT CARRYING CONDUCTORS IN A COMMON RACEWAY.
5. ALL CONDUIT CONNECTORS TO OUTLET OR JUNCTION BOXES SHALL HAVE INSULATED THROATS (MANUFACTURED AS AN INTEGRAL PART OF THE CONNECTOR). AFTER-MARKET INSERTABLE THROATS ARE NOT ACCEPTABLE.
6. COORDINATE ALL UTILITY SYSTEM RELATED ITEMS WITH UTILITY CO, INCLUDING APPLICATION FOR UTILITY INTERCONNECT AGREEMENT.
7. ALL SYSTEM COMPONENTS AND EQUIPMENT / WIRING TO COMPLY WITH CEC ARTICLE 690 AND OTHER APPLICABLE CODES, REGULATIONS AND LOCAL ORDINANCES.
8. ALL INVERTERS TO BE CERTIFIED WITH THE CALIFORNIA ENERGY COMMISSION AND UL1741 LISTED, UTILITY INTERACTIVE, SIZE AND RATINGS AS NOTED ON PLANS.
9. ALL AC FEEDERS SIZED TO CEC T310.15(B)(16), 75 DEGREE COLUMN WHEN USED WITH 75 DEGREE TERMINATIONS AND EQUIPMENT. USE 90 DEGREE COLUMN WHEN USED WITH PV EQUIPMENT RATED WITH 90 DEGREE TERMINATIONS. CONDUCTOR SIZES TO BE BASED ON FULL EQUIPMENT NAMEPLATE LOADS.
10. ALL CONDUIT FILL (AC AND DC) TO BE 40% MAXIMUM.
11. PROVIDE AN EQUIPMENT GROUNDING CONDUCTOR IN EACH CONDUIT (BOTH AC AND DC), SIZED PER CEC 250 AND 690.
12. ALL DC CIRCUITS TO BE 2-WIRE + GROUND, (90 DEGREE COLUMN), RATED FOR MIN. 156% OF Isc. (FOR USE WITH NON-OPTIMIZER TYPE SYSTEM)
13. ALL AC AND DC WIRING IN CONDUIT TO BE RHW-2, THWN-2, OR XHHW-2 (90 DEGREE) WET RATED FOR USE WITH 90 DEGREE LISTED TERMINALS ON PV EQUIPMENT.
14. ALL DC WIRING SHALL BE MINIMUM **1000V** RATED.
15. ALL DC WIRING TO BE LISTED "PV WIRE" (90 DEGREE) WET RATED AND SUNLIGHT RESISTANT. LOOSELY BUNDLE AND SECURE ALL INDIVIDUAL STRING WIRING NEATLY ALONG UNDERSIDE OF MODULES.
16. ALL GROUNDING PER CEC 250 AND 690-45. BOND ALL METAL SURFACES / FRAMES / EQUIPMENT WITH MIN. #2 GROUND STRAP. WEEB (OR EQUAL) MAY BE UTILIZED AT MODULE FRAME GROUNDING TO RACKING HARDWARE.
17. ALL PV MODULES TO BE UL 1703 LISTED, WITH TYPE 2 FIRE RATING.
18. ALL UNDERGROUND RACEWAYS TO BE SCHEDULE 40 PVC, UNLESS OTHERWISE NOTED.
19. ALL IN-GROUND PULL BOXES TO BE FLUSH STYLE WITH CONCRETE LIDS.
20. INVERTER(S) SHALL BE PROVIDED WITH DC AFCI PROTECTION PER CEC 690.11. INVERTERS SHOWN ON THIS SET OF DOCUMENTS ARE PROVIDED WITH DC AFCI PROTECTION, ANY SUBSTITUTIONS SHALL BE SUBMITTED TO THE ELECTRICAL ENGINEER OF RECORD FOR REVIEW.
21. INVERTER(S) SHALL BE PROVIDED WITH INTEGRAL GROUND-FAULT PROTECTION PER CEC 690.35. INVERTERS SHOWN ON THIS SET OF DOCUMENTS ARE PROVIDED WITH INTEGRAL GROUND FAULT PROTECTION, ANY SUBSTITUTIONS SHALL BE SUBMITTED TO THE ELECTRICAL ENGINEER OF RECORD FOR REVIEW.
22. ALL PV MODULE DC CABLE CONNECTORS SHALL BE MC4 TYPE (OR EQUAL), REQUIRING A TOOL FOR OPENING OF PV CONNECTIONS PER CEC 690.33. PV MODULES SHOWN ON THIS SET OF DOCUMENTS ARE PROVIDED WITH MC4 CONNECTORS, ANY SUBSTITUTIONS SHALL BE SUBMITTED TO THE ELECTRICAL ENGINEER OF RECORD FOR REVIEW.

'BESS' GENERAL NOTES

1. UNLESS OTHERWISE NOTED, ALL WORK SHOWN ON DRAWINGS IS NEW AND TO BE PROVIDED AND INSTALLED UNDER THIS CONTRACT.
2. ENERGY STORAGE SYSTEM ('ESS'), WITH AC COUPLED PV SYSTEM, SHALL BE TURN-KEY CONSTRUCTION CONTRACT. SYSTEM SHALL BE MICROGRID TYPE, WITH MICROGRID CONTROLLER.
3. COORDINATE AND PROVIDE ALL UTILITY SYSTEM RELATED ITEMS WITH UTILITY CO, INCLUDING APPLICATION FOR UTILITY INTERCONNECT AGREEMENT.
4. BATTERY STORAGE CHEMISTRY SHALL BE LITHIUM IRON PHOSPHATE, NO EXCEPTIONS.
5. ESS EQUIPMENT SHALL BE UL9540A LISTED, HAVING UNDERGONE LARGE SCALE FIRE TESTING PER CFC 1207.1.5. NO EXCEPTIONS.
6. ALL ESS EQUIPMENT SHALL BE LOCATED IN CONFORMANCE WITH CFC 1207.8.3 'CLEARANCE TO EXPOSURES'
7. ALL DC WIRING SHALL BE MINIMUM **1000V** RATED.
8. ALL RACEWAYS (POWER, COMMUNICATIONS, ETC.) SHALL BE PROVIDED AND INSTALLED BY THIS CONTRACT. COORDINATE REQUIREMENT WITH TURN-KEY INSTALLATION VENDOR PRIOR TO SUBMITTING BID.

NUMBERED SHEET NOTES

1. DC OUTPUT CIRCUIT FROM DC-DC OPTIMIZER TO INVERTER DC INPUT CONNECTIONS, SEE DETAIL 2, THIS SHEET. TYPICAL (2) #6 + (1)#6G. ALSO SEE GENERAL NOTES ONN SHEET E9.01 FOR WIRING MANAGMENT AND REQUIREMENTS.
2. DC INTERFACE - 1000V DC, NEMA 3R, UL 1741. PROVIDE WITH 15A FUSES IN DIN RAIL MOUNTED FUSE HOLDERS. FUSE BOX SHALL BE LOCATED ON THE ROOF ADJACENT PV INVERTER FOR DC STRING INPUT ONTO INVERTER DC BUS.
3. INVERTERS TO BE CERTIFIED WITH THE CALIFORNIA ENERGY COMMISSION AND UL1741 LISTED. INVERTER ASSEMBLY TO INCLUDE INTEGRAL AC AND DC DISCONNECTS (NOT SHOWN).
4. INVERTERS SHALL BE PROVIDED WITH A COMBINED DC AND AC DISCONNECTION MEANS. ASSEMBLY SHALL INCLUDE DC FUSES AND FUSE HOLDERS IN QUANTITIES REQUIRED.
5. PROVIDE A COMPLETE PHOTOVOLTAIC DATA ACQUISITION SYSTEM ('DAS') TO ALLOW OWNER TO REMOTELY VIEW REAL-TIME VISUAL METERS OF SYSTEM PERFORMANCE, HISTORICAL GRAPHS, LOCAL WEATHER DATA AND CUSTOM PROJECT DETAILS TO CLIENT SATISFACTION. THIS INCLUDES ALL HEAD END EQUIPMENT, SOFTWARE AND LICENSING FEES. THIS SHALL ALSO INCLUDE INSTALLATION OF ANY METROLOGICAL EQUIPMENT REQUIRED AT THE ROOF FOR WEATHER MONITORING. UTILIZE DECK MONITORING SOFTWARE OR EQUAL.
6. PROVIDE AND INSTALL FULLY TERMINATED CAT. 6 NETWORK JACK/CABLE AT DAS EQUIPMENT & 120V DUPLEX RECEPTACLE. DAS EQUIPMENT LOCATION BY SOLAR INTEGRATOR. CONFIRM EXACT LOCATION PRIOR TO ROUGH-IN.
7. PROVIDE COMPACT METEOROLOGICAL WEATHER STATION (MET) AT ROOF, COLUMBIA WEATHER SYSTEMS OR EQUAL. MET STATION SHALL BE FULLY COMPATIBLE WITH DAS EQUIPMENT, CONFIRM COMPATIBILITY PRIOR TO ROUGH-IN.
8. PROVIDE 1" RACEWAY WITH RS-485 WIRING FOR MONITORING EQUIPMENT COMMUNICATIONS. CONFIRM EXACT WIRING TYPE AND QUANTITY WITH DAS AND MET SYSTEMS SUPPLIERS PRIOR TO ROUGH-IN.
9. PROVIDE GROUNDING CONNECTION FROM INVERTER ASSEMBLY TO MAIN SWITCHBOARD GROUND BUS PER CEC 690.47 AND MANUFACTURERS INSTRUCTIONS.
10. PV SYSTEM SINGLE MODULE OPTIMIZER. OPTIMIZERS SHALL BE PROVIDED WITH INTERNAL CURRENT LIMITING FUNCTIONS AS DESCRIBED IN 690.8(B)(2) EXCEPTION 1.
11. ALL PV SYSTEM INTERCONNECTIONS WITH THE DISTRIBUTION SYSTEM SHALL COMPLY WITH CEC ARTICLE 690. PROVIDE AND INSTALL ALL GROUNDING AS REQUIRED BY NEC ARTICLE 250, 690, 705 AND SYSTEM MANUFACTURER.
12. NOT USED
13. NOT USED
14. PROVIDE PV SYSTEM PLACARDS AS REQUIRED BY LOCAL UTILITY COMPANY.
15. PHOTOVOLTAIC SYSTEM INVERTER, RAPID SHUT-DOWN COMPLIANT, WITH MODULE LEVEL OPTIMIZED STRING CONFIGURATIONS.
16. PROVIDE LOW VOLTAGE RACEWAY AS REQUIRED BY ESS TURN-KEY VENDOR. PROVIDE AND INSTALL (5) #16 AWG THWN CONTROL WIRING AND (1) RS485 CABLING. VERIFY EXACT CABLING TYPES WITH TURN-KEY VENDOR PRIOR TO ROUGH-IN.

Project Title:

CITY OF BERKELEY
PARKS, RECREATION & WATERFRONT DEPARTMENT

MLK JR YOUTH SERVICES CENTER / YAP

1730 Oregon Street, Berkeley, CA 94703
APN#: 053-1676-001-02

Design Firm:
SIEGEL & STRAIN Architects
6201 Doyle Street, Suite B
Emeryville, CA 94608
TEL 510 / 547-8092
info@siegelstrain.com

Consultant:
O'MAHONY & MYER
ELECTRICAL ENGINEERING & LIGHTING DESIGN
43440 REDWOOD HWY, SUITE 245
SAN RAFAEL, CALIFORNIA 94903
(415) 492-0420/FAX (415) 479-9662

Stamp:

REGISTERED PROFESSIONAL ENGINEER
RICHARD COLE MYER
No.E14738
Exp. 6/25
ELECTRICAL
STATE OF CALIFORNIA
03/12/25

No.	Description	Date
	PERMIT SET	12/04/24
1	PLAN CHECK #1	03/07/25

Issue Note: PERMIT RESUBMITTAL 03/07/25

City Plan No.:	8286
City File No.:	402-145
Specification No.:	#25-11695-C
Project ID:	YAP
Drawn by:	Author
Checked by:	Checker
Plot Date:	12/2/24
Scale:	12" = 1'-0"

Sheet Title:
SINGLE LINE DIAGRAM - PHOTOVOLTAIC

Sheet No.:
E5.05

3/12/2025 10:57:01 AM

PANEL C

VOLTS:	120 / 208	**MAINS:**	MLO
PHASE:	3 PH	**FEEDER:**	SEE SINGLE LINE
WIRE:	4 W	**CONDUIT:**	SEE SINGLE LINE
BUSSING:	400A	**MOUNTED:**	FLUSH
POLES:	54P	**AIC RATING:**	22KAIC

PROVIDE NAMEPLATE TO READ:
PANEL C , 300A, 120/208V, FED FROM MSB'

LOAD DESCRIPTION	TYPE	A	B	C	BRKR.	CKT.	CKT.	BRKR.	A	B	C	TYPE	LOAD DESCRIPTION
	H	3.36				1	2	20/1	0.42			L	LIGHTS, RM 127 & EXTERIOR
AHU-2 (AT ROOF)	H		3.36		40/3	3	4	20/1		0.10		L	LIGHTING CONTROLS
	H			3.36		5	6	20/1			1.04	L	EMERGENCY LTG INVERTER
	H	0.74				7	8	20/1	0.18			R	RECEPTS - EXTERIOR
FAN COILS FCU-1 THROUGH FCU-4	H		0.74		15/2	9	10	20/1					SPARE
	H			0.56		11	12	20/1					SPARE
FAN COILS FCU-5 THROUGH FCU-9	H	0.56			15/2	13	14	20/1	0.10			M	ELECTRIC LAV FAUCETS
	H		0.63			15	16	20/1		0.10		M	ELECTRIC VALVE URINALS
KEF-1	H			0.63	15/2	17	18	20/1			0.10	M	ELECTRIC VALVE WATER CLOSETS
EF-1	H	0.10			20/1	19	20	30/2	2.50			M	DRYER
	H		1.37			21	22			2.50		M	
HP-1	H			1.37	20/2	23	24	20/1			1.00	M	WASHER
	H	2.42				25	26	20/1	1.00			M	HAND DRYER - STAFF RR
HP-2	H		2.42		35/2	27	28	20/1		1.00		M	HAND DRYER - MENS
	H			1.37		29	30	20/1			1.00	M	HAND DRYER - WOMANS
HP-3	H	1.37			20/2	31	32	20/1	1.00			M	HAND DRYER - ALL GENDER
	H		1.37			33	34	100/2		7.80		M	WATER HEATER WH-2
HP-4	H			1.37	20/2	35	36				7.80	M	
	H	1.37				37	38	100/2	7.80			M	WATER HEATER WH-3
HP-5	H		1.37		20/2	39	40			7.8		M	
	H			1.37		41	42	30/2			2.1	M	WATER HEATER WH-4
HP-6	H	1.37			20/2	43	44		2.10			M	
	H		1.37			45	46	20/1					SPARE
HP-7	H			1.37	20/2	47	48	20/1					SPARE
	H	1.37				49	50	20/1					SPARE
HP-8	H		1.37		20/2	51	52	20/2		1.37		H	HP-9
CONTROL PANEL PAN-1 / ROOF GFI	M			0.40	20/1	53	54				1.37	H	
		12.66	14.00	11.80					15.10	20.67	14.41		

DEMAND LOAD SUMMARY	CONN. KVA	DEMAND FACTOR	DEMAND KVA
TYPE "M": NON-CONTINUOUS / MISC. LOADS	46.10	100%	46.10
TYPE "L": LIGHTING / CONTINUOUS LOADS	1.56	125%	1.95
TYPE "R": RECEPTACLES (FIRST 10KVA)	0.18	100%	0.18
TYPE "R": RECEPTACLES (OVER 10KVA)	0.00	50%	0.00
TYPE "H": HVAC / MECHANICAL LOADS	40.80	100%	40.80
TOTALS:	88.64		89.03

PHASE A: 27.76 **KVA**
PHASE B: 34.67 **KVA**
PHASE C: 26.21 **KVA**

247.42 **DEMAND AMPS**

PANEL A

VOLTS:	120 / 208 V	**MAIN BRKR:**	MLO
PHASE:	3 PH	**FEEDER:**	SEE SINGLE LINE
WIRE:	4 W	**CONDUIT:**	SEE SINGLE LINE
BUSSING:	225A	**MOUNTED:**	FLUSH
POLES:	42P	**AIC RATING:**	42KAIC

PROVIDE NAMEPLATE TO READ:
PANEL A , 225A, 120/208V, FED FROM MSB'

LOAD DESCRIPTION	TYPE	A	B	C	BRKR.	CKT.	CKT.	BRKR.	A	B	C	TYPE	LOAD DESCRIPTION
FREEZER + REFRIGERATOR	K	1.09			20/1	1	2	20/1	0.42			L	LIGHTS, RM 127 & EXTERIOR
COUNTERTOP BLENDER	K		1.56		20/1	3	4	20/1		0.10		L	LIGHTING CONTROLS
COUNTERTOP MIXER	K			1.80	20/1	5	6	20/1			1.04	L	EMERGENCY LTG INVERTER
COUNTERTOP FOOD PROCESSOR	K	0.84			20/1	7	8	20/2	1.35			M	WATER HEATER WH-1 (AT ROOF)
COUNTERTOP JUICER	R		0.36		20/1	9	10			1.35		M	
MICROWAVE OVEN	K			1.56	20/1	11	12	20/1			1.00	R	RECEPTS - GYM N/W BACK-STOP
ICE MAKER	K	1.08			20/1	13	14	20/1	1.00			R	RECEPTS - GYM WEST BACK-STOP
COUNTERTOP RECEPTACLES	R		0.36		20/1	15	16	20/1		1.00		R	RECEPTS - GYM S/W BACK-STOP
COUNTERTOP RECEPTACLES	R			0.36	20/1	17	18	20/1			1.26	R	RECEPTS - GYM WEST
ELECTRIC RANGE WITH HOT PLATES	K	6.49			70/3	19	20	20/1	0.18			R	RECEPTS - ELECT RM / ROOF
	K		6.49			21	22	20/1		0.54		R	RECEPTS - EXTERIOR
	K			6.49		23	24	20/1			0.36	R	RECEPTS - KITCHEN ISLAND
ELECTRIC RANGE WITH GRIDDLE	K	5.89			70/3	25	26	20/1					SPARE
	K		5.89			27	28	20/1					SPARE
	K			5.89		29	30	20/1					SPARE
MILK COOLER	K	0.27			20/1	31	32	20/1					SPARE
CONVENIENCE RECEPTACLES - WALLS	R		0.54		20/1	33	34	20/1		0.36		R	RECEPTS - COMM RM2 FLAT PANEL
KITCHEN HOOD	K			0.50	20/1	35	36	20/1			0.54	R	RECEPTS - COMM RM2 N & S
RECEPTS - STORAGE ROOMS	R	0.72			20/1	37	38	20/1	0.72			R	RECEPTS - COMM RM2 WEST
RECEPTS - HAUNTED HOUSE USE WEST	R		1.08		20/1	39	40	20/1		0.90		R	RECSPTS - COMM RM1 WEST
RECEPTS - COMM RM1 FLAT PANELS	R			0.72	20/1	41	42	20/1			0.90	R	RECEPTS - COMM RM1 EAST
		16.38	16.28	17.32					3.67	4.25	5.10		

DEMAND LOAD SUMMARY	CONN. KVA	DEMAND FACTOR	DEMAND KVA
TYPE "M": NON-CONTINUOUS / MISC. LOADS	2.70	100%	2.70
TYPE "L": LIGHTING / CONTINUOUS LOADS	1.56	125%	1.95
TYPE "R": RECEPTACLES (FIRST 10KVA)	10.00	100%	10.00
TYPE "R": RECEPTACLES (OVER 10KVA)	2.90	50%	1.45
TYPE "K": KITCHEN APPLIANCE LOADS	45.84	65%	29.80
TOTALS:	63.00		45.90

PHASE A: 20.05 **KVA**
PHASE B: 20.53 **KVA**
PHASE C: 22.42 **KVA**

127.55 **DEMAND AMPS**

PANEL ES

VOLTS:	120 / 208	**MAIN BRKR:**	MLO
PHASE:	3 PH	**FEEDER:**	SEE SINGLE LINE
WIRE:	4 W	**CONDUIT:**	SEE SINGLE LINE
BUSSING:	400A	**MOUNTED:**	SURFACE
POLES:	24P	**AIC RATING:**	42KAIC

PROVIDE NAMEPLATE TO READ:
FOR PV AND BESS OUTPUTS (ENERGY PRODUCTION ONLY)

LOAD DESCRIPTION	TYPE	A	B	C	BRKR.	CKT.	CKT.	BRKR.	A	B	C	TYPE	LOAD DESCRIPTION
	M	16.67				1	2						S P A C E
PHOTOVOLTAIC SYSTEM	M		16.67		175/3	3	4						S P A C E
	M			16.67		5	6						S P A C E
	M	10.00				7	8						S P A C E
BATTERY ENERGY STORAGE (BESS)	M		10.00		125/3	9	10						S P A C E
	M			10.00		11	12						S P A C E
S P A C E						13	14						S P A C E
S P A C E						15	16						S P A C E
S P A C E						17	18						S P A C E
S P A C E						19	20						S P A C E
S P A C E						21	22						S P A C E
S P A C E						23	24						S P A C E
		26.67	26.67	26.67					0.00	0.00	0.00		

DEMAND LOAD SUMMARY	CONN. KVA	DEMAND FACTOR	DEMAND KVA
TYPE "M": NON-CONTINUOUS / MISC. LOADS	80.01	100%	80.01
TYPE "L": LIGHTING / CONTINUOUS LOADS	0.00	125%	0.00
TYPE "R": RECEPTACLES (FIRST 10KVA)	0.00	100%	0.00
TYPE "R": RECEPTACLES (OVER 10KVA)	0.00	50%	0.00
TYPE "H": HVAC / MECHANICAL LOADS	0.00	100%	0.00
TOTALS:	80.01		80.01

PHASE A: 26.67 **KVA**
PHASE B: 26.67 **KVA**
PHASE C: 26.67 **KVA**

222.35 **DEMAND AMPS**

PANEL B

VOLTS:	120 / 208	**MAIN BRKR:**	MLO
PHASE:	3 PH	**FEEDER:**	SEE SINGLE LINE
WIRE:	4 W	**CONDUIT:**	SEE SINGLE LINE
BUSSING:	100A	**MOUNTED:**	FLUSH
POLES:	42P	**AIC RATING:**	22KAIC

PROVIDE NAMEPLATE TO READ:
PANEL B , 100A, 120/208V, FED FROM MSB'
(* INDICATES TO PROVIDE RED BREAKER HANDLE)

LOAD DESCRIPTION	TYPE	A	B	C	BRKR.	CKT.	CKT.	BRKR.	A	B	C	TYPE	LOAD DESCRIPTION
RECEPTS - STAFF UTILITY RM.	R	0.54			20/1	1	2	20/1	1.44			L	LIGHTS, GYM 102
RECEPTS - WOMANS RR	R		0.18		20/1	3	4	20/1		0.72		L	LIGHTS, GYM 102
RECEPTS - MENS RR	R			0.18	20/1	5	6	20/1			1.44	L	LIGHTS, GYM 102
RECEPTS - ALL GENDER RR / HALL	R	0.72			20/1	7	8	20/1	1.17			L	LIGHTS, RM. 121, 122, 124 - 126
RECEPTS - MEETING ROOM / LOBBY	R		1.08		20/1	9	10	20/1		0.97		L	LIGHTS, RM. 107, 114 - 120, 128
RECEPTS - GYM EAST	R			0.90	20/1	11	12	20/1			1.25	L	LTS, RM. 101,103,104,106,108,110-113, ROOF
RECEPTS - GYM N/E BACK-STOP	M	1.00			20/1	13	14	20/1	0.18			R	RECEPTS - EXTERIOR
RECEPTS - GYM EAST BACK-STOP	M		1.00		20/1	15	16	20/1 *		0.20		M	FIRE ALARM CONTROL PANEL
RECEPTS - GYM S/E BACK-STOP	M			1.00	20/1	17	18	20/1			0.50	R	DRINKING FOUNTAIN
RECEPTS - OFFICE SOUTH / LOBBY	R	1.08			20/1	19	20	20/1					SPARE
RECEPTS - OFFICE NORTH	R		1.08		20/1	21	22	20/1					SPARE
RECEPTS - CORNER OFFICE	R			1.26	20/1	23	24	20/1					SPARE
RECEPTS - MUSIC BOOTH	R	0.72			20/1	25	26	20/1					SPARE
RECEPTS - ENGINEERING RM.	R		0.72		20/1	27	28	20/1					SPARE
RECEPTS - IT RACK	R			0.36	20/1	29	30	20/1			0.90	R	RECEPTS - LOUNGE WEST
RECEPTS - IT ROOM	R	0.36			20/1	31	32	20/1	0.72			R	RECEPTS - LOUNGE NORTH / WEST
RECEPTS - STORAGE / UTILITY RM.	R		0.72		20/1	33	34	20/1		0.72		R	RECEPTS - LOUNGE FLAT PANELS
RECEPTS - MAIN HALLWAY	R			0.72	20/1	35	36	20/1			0.72	R	RECEPTS - LOUNGE EAST
RECEPTS - HUANTED HOUSE USE EAST	R	1.44			20/1	37	38	20/1	0.72			R	RECEPTS - COMPUTER RM SOUTH
RECEPTS - COMPUTER ROOM EAST	R		0.72		20/1	39	40	20/1		0.72		R	RECEPTS - COMPUTER RM NORTH / WEST
RECEPTS - COMPUTER ROOM EAST	R			0.72	20/1	41	42	20/1			0.72	R	RECEPTS - COMPUTER RM NORTH / WEST
		5.86	5.50	5.14					4.23	3.33	5.53		

DEMAND LOAD SUMMARY	CONN. KVA	DEMAND FACTOR	DEMAND KVA
TYPE "M": NON-CONTINUOUS / MISC. LOADS	3.20	100%	3.20
TYPE "L": LIGHTING / CONTINUOUS LOADS	6.99	125%	8.74
TYPE "R": RECEPTACLES (FIRST 10KVA)	10.00	100%	10.00
TYPE "R": RECEPTACLES (OVER 10KVA)	9.40	50%	4.70
TYPE "H": HVAC / MECHANICAL LOADS	0.00	100%	0.00
TOTALS:	29.59		26.64

PHASE A: 10.09 **KVA**
PHASE B: 8.83 **KVA**
PHASE C: 10.67 **KVA**

74.03 **DEMAND AMPS**

Project Title:

CITY OF BERKELEY
PARKS, RECREATION & WATERFRONT DEPARTMENT

MLK JR YOUTH SERVICES CENTER / YAP

1730 Oregon Street, Berkeley, CA 94703
APN#: 053-1676-001-02

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Stamp:

REGISTERED PROFESSIONAL ENGINEER
COLBY
No.E14738
Exp. 6/25
ELECTRICAL
STATE OF CALIFORNIA

03/12/25

No.	Description	Date
	PERMIT SET	12/04/24
1	PLAN CHECK #1	03/07/25

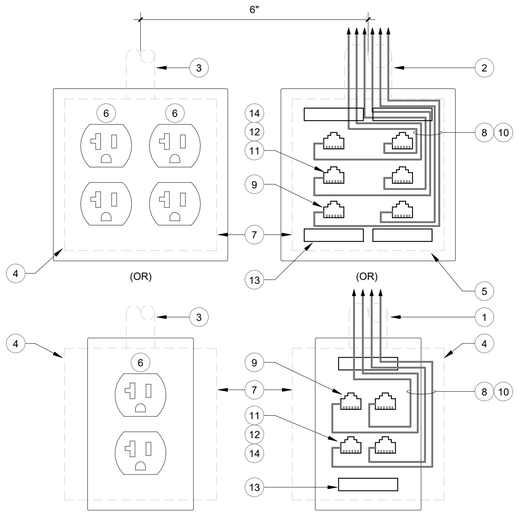
Issue Note: PERMIT RESUBMITTAL 03/07/25

City Plan No.:	8286
City File No.:	402-145
Specification No.:	#25-11695-C
Project ID:	YAP
Drawn by:	Author
Checked by:	Checker
Plot Date:	12/2/24
Scale:	

Sheet Title:
SCHEDULES

Sheet No.:
E6.01

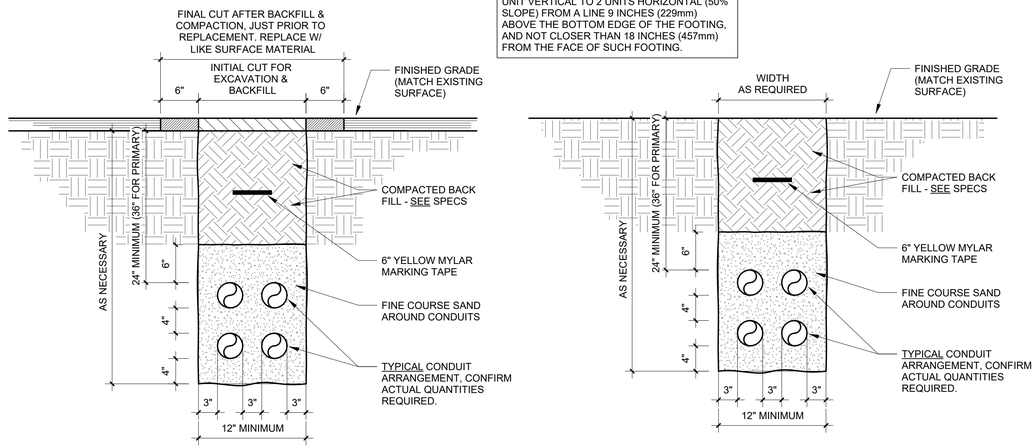
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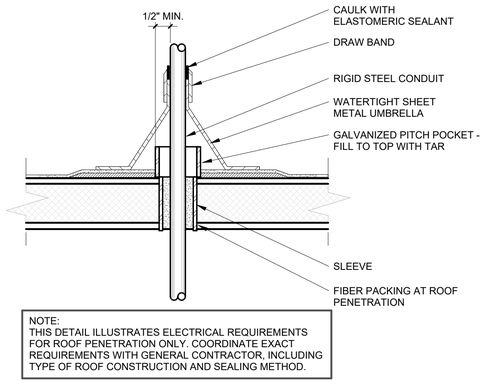
DETAIL NUMBERED NOTES

1. PROVIDE 1" CONDUIT STUBBED UP TO NEAREST ACCESSIBLE CONCEALED CEILING, U.O.N. - BUSH CONDUIT END(S) OR EXTEND CONDUIT TO THE IDF WHERE NO CEILING OR NO OVERHEAD PATHWAY TO IDF EXISTS.
2. PROVIDE 1-1/4" CONDUIT STUBBED UP TO NEAREST ACCESSIBLE CONCEALED CEILING, U.O.N. - BUSH CONDUIT END(S) OR EXTEND CONDUIT TO THE IDF WHERE NO CEILING OR NO OVERHEAD PATHWAY TO IDF EXISTS.
3. POWER CONDUIT & WIRES - SEE FLOOR PLANS
4. PROVIDE 4" SQUARE BOX, 2-1/8" DEEP, WITH TWO-GANG PLASTER RING
5. PROVIDE 4" SQUARE BOX, 3-1/2" DEEP, WITH TWO-GANG PLASTER RING
6. PROVIDE 20AMP, 120V, 3PG DOUBLE DUPLEX RECEPTACLE
7. LOCATE BOXES ADJACENT TO EACH OTHER & ALIGN COVER PLATES
8. TERMINATE CABLES AT EACH JACK. PROVIDE QUANTITY OF JACKS AS NOTED ON PLANS
9. WHERE NO DATA JACK IS REQUIRED, PROVIDE BLANK SPACER.
10. PROVIDE HOMERUN DATA CABLES TO RESPECTIVE PATCH PANEL.
11. MODULAR FACEPLATE WITH ANGLED OR FLAT EXIT (VERIFY WITH I.T. STANDARDS.
12. TYPICAL 8 PIN 8 POS, T568B DATA JACK, COLORED BLUE (VERIFY WITH I.T. STANDARDS).
13. PANDUIT, EFPL-1, 1.80 x 0.375 INCH. WHITE, POLYESTER LABEL. LABELS SHALL HAVE CAPACITY FOR 2 COLUMNS FOR LASER PRINTERS AND SHALL BE LABELED AS NOTED IN SPECIFICATIONS (VERIFY WITH I.T. STANDARDS).
14. SEE FLOOR PLANS FOR QUANTITY & TYPE OF JACKS IN EACH LOCATION.
15. TYPICAL SINGLE OR DOUBLE GANG FACEPLATE, FINISH AS DIRECTED BY ARCHITECT.

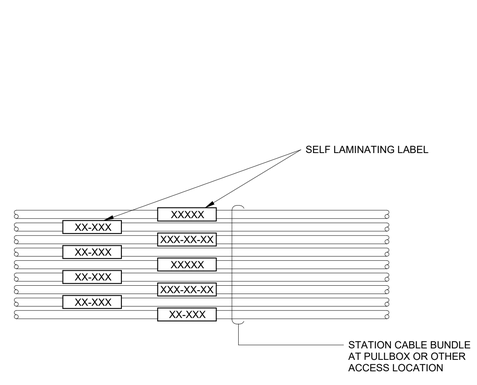
5 COMBINATION POWER & DATA OUTLETS
6" = 1'-0"



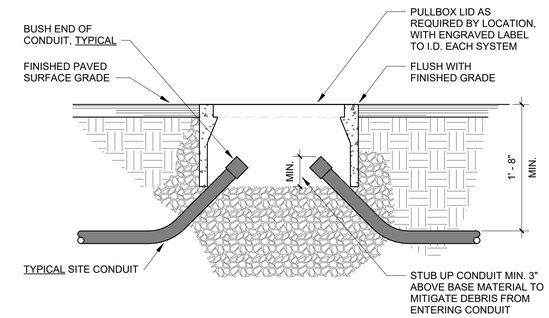
1 TYPICAL TRENCH SECTIONS
1" = 1'-0"



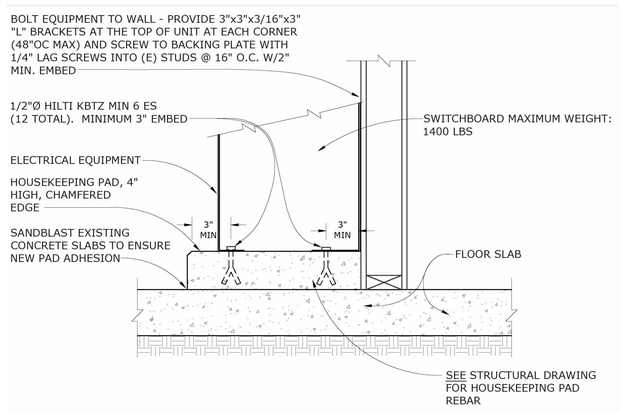
6 ROOF PENETRATION DETAIL
12" = 1'-0"



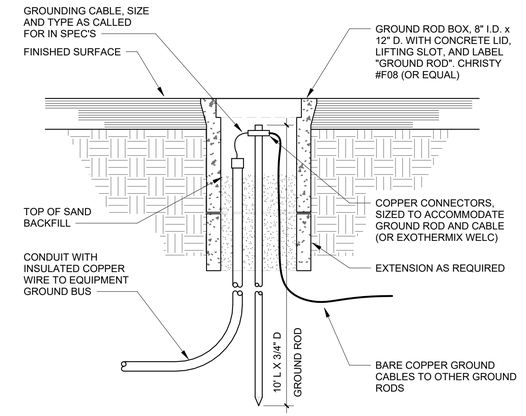
7 TYPICAL STATION CABLE LABELING
12" = 1'-0"



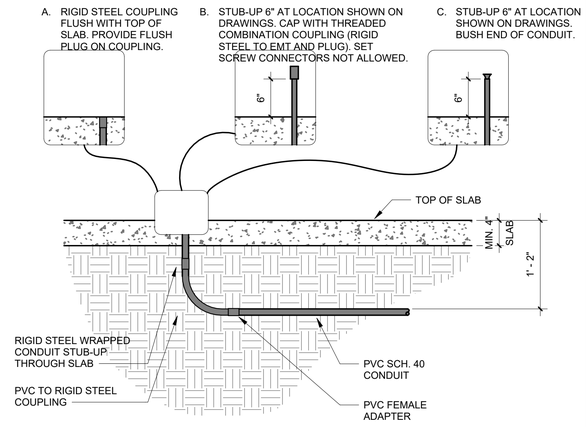
2 TYPICAL PULLBOX SECTION
1" = 1'-0"



8 HOUSEKEEPING PAD ON SLAB
1" = 1'-0"



4 GROUND ROD FINISHED SURFACE
1 1/2" = 1'-0"



3 CONDUIT STUB UP
1" = 1'-0"

Project Title:

CITY OF BERKELEY
PARKS, RECREATION & WATERFRONT DEPARTMENT

MLK JR YOUTH SERVICES CENTER / YAP

1730 Oregon Street, Berkeley, CA 94703
APN#: 053-1676-001-02

Design Firm:

SIEGEL & STRAIN Architects
6201 Doyle Street, Suite B
Emeryville, CA 94608
TEL 510 / 547-8092
info@siegelstrain.com

Consultant:

O'MAHONY & MYER
ELECTRICAL ENGINEERING & PLANNING DIVISION
43440 REDWOOD HWY., SUITE 245
SAN RAFAEL, CALIFORNIA 94903
(415) 492-0420/FAX (415) 479-9662

Stamp:

REGISTERED PROFESSIONAL ENGINEER COLEEN YAP No.E14738 Exp. 6/25 ELECTRICAL STATE OF CALIFORNIA

03/12/25

No.	Description	Date
	PERMIT SET	12/04/24
1	PLAN CHECK #1	03/07/25

Issue Note: PERMIT RESUBMITTAL 03/07/25

City Plan No.:	8286
City File No.:	402-145
Specification No.:	#25-11695-C
Project ID:	YAP
Drawn by:	Author
Checked by:	Checker
Plot Date:	12/2/24
Scale:	As indicated

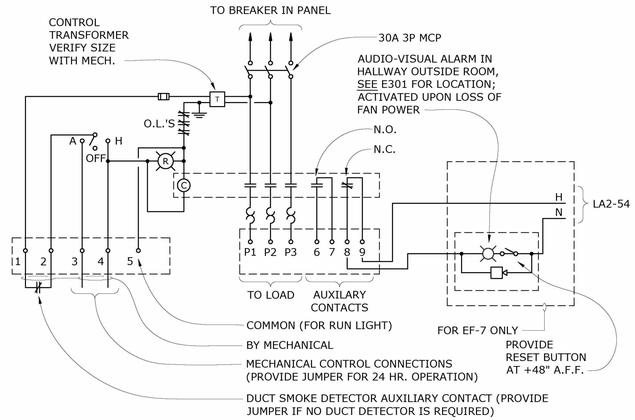
Sheet Title:

DETAILS

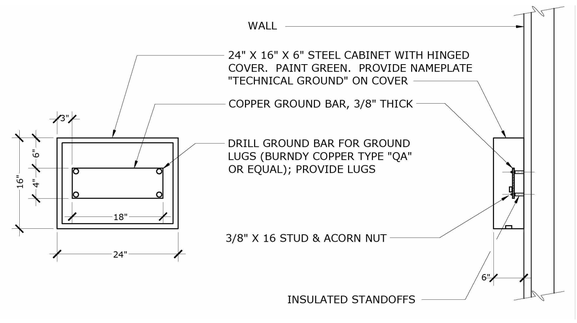
Sheet No.:

E7.01

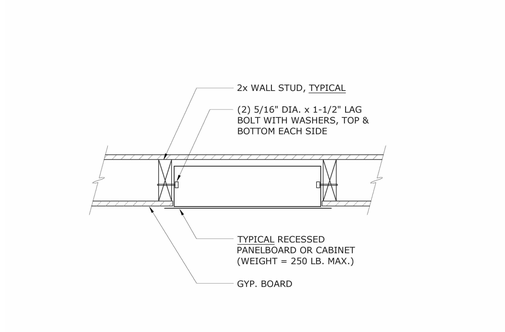
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3 COMBINATION MOTOR STARTER - CONTROL DIAGRAM
1" = 1'-0"



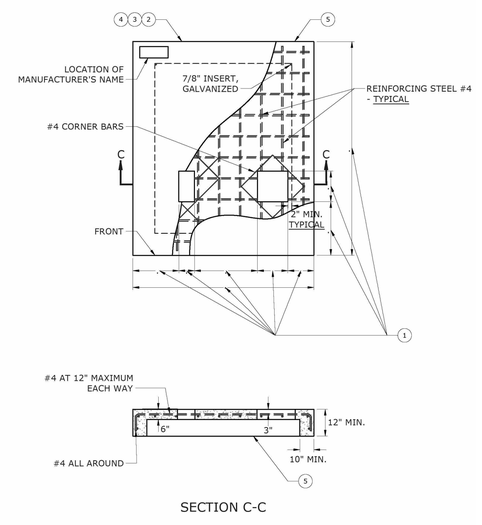
1 GROUND BAR CABINET
1" = 1'-0"



4 FLUSH MOUNTED PANELBOARD
1" = 1'-0"

DETAIL NOTES

1. CONFIRM ALL DIMENSIONS WITH UTILITY COMPANY.
2. CONFIRM ALL PAD REQUIREMENTS WITH PG&E.
3. PAD SUITABLE FOR TRANSFORMER WEIGHING APPROXIMATELY 4,500LBS.
4. ARRANGE WITH PG&E TO INSPECT AND APPROVE INSTALLATION PRIOR TO POUR.
5. PG&E TRANSFORMER PAD SHALL BE PLACED ON FIRM, COMPACTED NATIVE MATERIAL OR ENGINEERED FILL THAT COMPLIES WITH ALL REQUIREMENTS OF THE PG&E GREEN BOOK.



2 TRANSFORMER PAD - DETAIL
1" = 1'-0"

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Stamp:

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03/12/25

No.	Description	Date
	PERMIT SET	12/04/24
1	PLAN CHECK #1	03/07/25

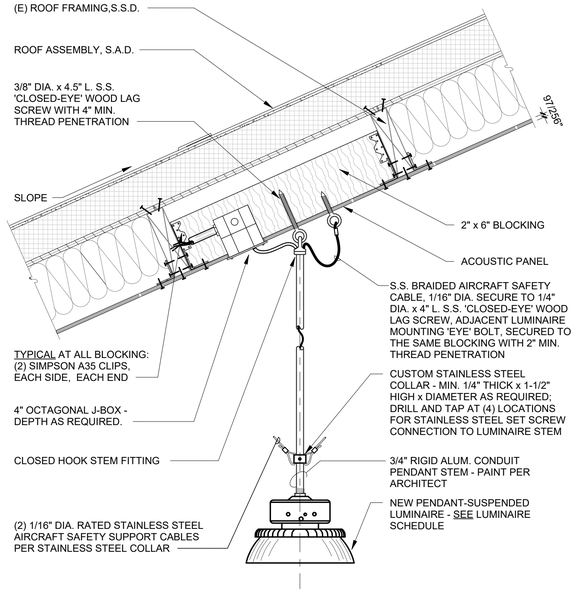
Issue Note: PERMIT RESUBMITTAL 03/07/25

City Plan No.:	8286
City File No.:	402-145
Specification No.:	#25-11695-C
Project ID:	YAP
Drawn by:	Author
Checked by:	Checker
Plot Date:	12/2/24
Scale:	1" = 1'-0"

Sheet Title: DETAILS

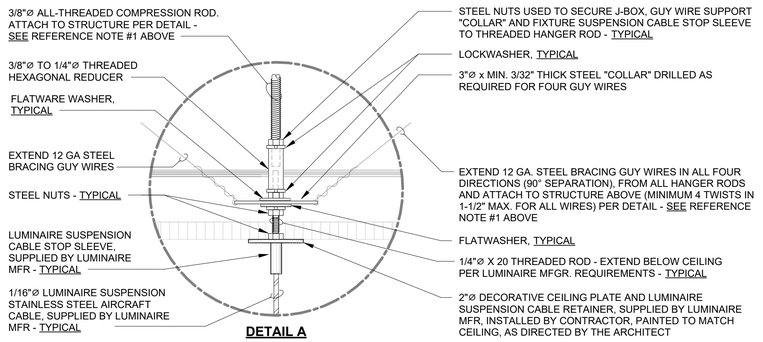
Sheet No.: E7.02

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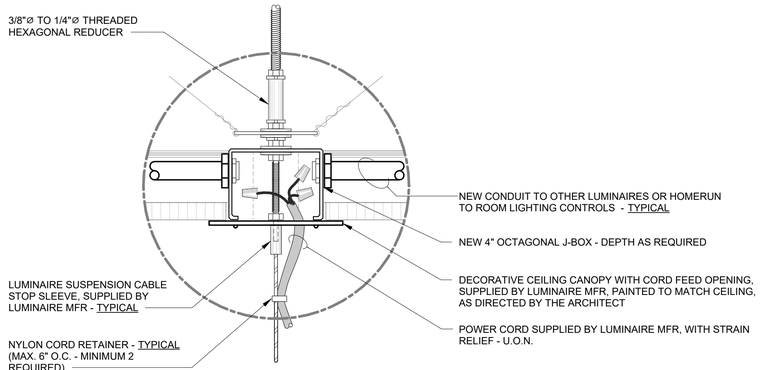


2 LED HIGH BAY LUMINAIRE SUSPENDED IN FRAMED CEILING
NO SCALE

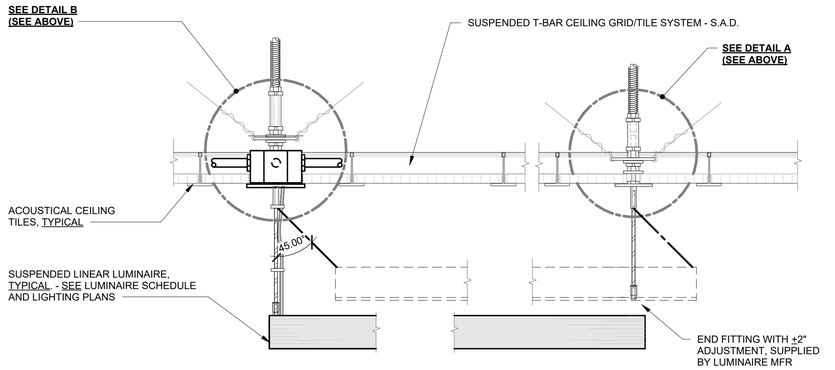
NOTES: 1. FOR CONNECTION OF COMPRESSION ROD AND GUY WIRES TO STRUCTURE - SEE DETAILS ON A9.10.



DETAIL A



DETAIL B



1 SUSPENDED LUMINAIRE
NOT TO SCALE

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Stamp:

REGISTERED PROFESSIONAL ENGINEER
PAUL COLEMAN
No.E14738
Exp. 6/25
ELECTRICAL
STATE OF CALIFORNIA

03/12/25

No.	Description	Date
	PERMIT SET	12/04/24
1	PLAN CHECK #1	03/07/25

Issue Note: PERMIT RESUBMITTAL 03/07/25

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Sheet Title:

LIGHTING DETAILS

Sheet No.:

E7.03

3/12/2025 10:57:03 AM

STATE OF CALIFORNIA
Indoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-LTI-E
Project Name: MLK Jr Youth Services Center / YAP	**Report Page:**	**(Page 3 of 10)**
	Date Prepared:	3/6/2025

F. INDOOR LIGHTING FIXTURE SCHEDULE

This table includes all planned permanent and portable lighting other than dwelling unit/ hotel/ motel room lighting. Multifamily dwelling unit and hotel/motel room lighting is documented in Table T. If using Table T to document lighting in multifamily common use areas providing shared provisions for living, eating, cooking or sanitation, those luminaires are not included here.

Designed Wattage: Conditioned Spaces

01	02	03	04	05	06	07	08	09	10	
Name or Item Tag	Complete Luminaire Description	Modular (Track) Fixture	Small Aperture & Color Change[1]	Watts per luminaire[2]	How is Wattage determined	Total Number of Luminaires	Excluded per 140.6(a)3 / 170.2(e)2C	Design Watts	Field Inspector	
									Pass	Fail
AA1	AA1	No	NA	80	Mfr. Spec	4	No	320	☐	☐
AA2	AA2	No	NA	160	Mfr. Spec	1	No	160	☐	☐
AB1	AB1	No	NA	31	Mfr. Spec	13	No	403	☐	☐
AC1	AC1	No	NA	230	Mfr. Spec	1	No	230	☐	☐
AE1	AE1	No	NA	26	Mfr. Spec	3	No	78	☐	☐
AE2	AE2	No	NA	52	Mfr. Spec	3	No	156	☐	☐
AE3	AE3	No	NA	23	Mfr. Spec	3	No	69	☐	☐
AE4	AE4	No	NA	30	Mfr. Spec	2	No	60	☐	☐
AF1	AF1	No	NA	20	Mfr. Spec	8	No	160	☐	☐
AG1	AG1	No	NA	18	Mfr. Spec	2	No	36	☐	☐
AG2	AG2	No	NA	33	Mfr. Spec	1	No	33	☐	☐
AH1	AH1	No	NA	108	Mfr. Spec	30	No	3,240	☐	☐
AJ1	AJ1	No	NA	39	Mfr. Spec	7	No	273	☐	☐
AJ2	AJ2	No	NA	20	Mfr. Spec	3	No	60	☐	☐
AK1	AK1	No	NA	27	Mfr. Spec	8	No	216	☐	☐
AK2	AK2	No	NA	54	Mfr. Spec	7	No	378	☐	☐
AK3	AK3	No	NA	81	Mfr. Spec	4	No	324	☐	☐
AK4	AK4	No	NA	108	Mfr. Spec	2	No	216	☐	☐
AK5	AK5	No	NA	41	Mfr. Spec	2	No	82	☐	☐
AL1	AL1	No	NA	9	Mfr. Spec	4	No	36	☐	☐

STATE OF CALIFORNIA
Indoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-LTI-E
Project Name: MLK Jr Youth Services Center / YAP	**Report Page:**	**(Page 4 of 10)**
	Date Prepared:	3/6/2025

F. INDOOR LIGHTING FIXTURE SCHEDULE

BA1	BA1	No	NA	12	Mfr. Spec	4	No	48	☐	☐
							Total Designed Watts: CONDITIONED SPACES	6,578		

[1]*FOOTNOTE: Design Watts for small aperture and color changing luminaires which qualify per 140.6(a)4B / 170.2(e)2D is adjusted to be 75% /80% of their rated wattage. Table F automatically makes this adjustment, the permit applicant should enter full rated wattage in column 05.*

[2]*Authority Having Jurisdiction may ask for Luminaire cut sheets to confirm wattage used for compliance per 130.0(c) / 160.5(b). Wattage used must be the maximum rated for the luminaire, not the lamp.*

G. MODULAR LIGHTING SYSTEMS

This section does not apply to this project.

H. INDOOR LIGHTING CONTROLS (Not including PAFs)

This table includes lighting controls for conditioned and unconditioned spaces.

Building Level Controls

01	02	03	
Mandatory Demand Response 110.12(c)	Shut-off controls 130.1(c) / 160.5(b)4C	Field Inspector	
		Pass	Fail
Required >= 4,000W subject to multilevel	Whole Building Auto Time Switch	☐	☐

STATE OF CALIFORNIA
Indoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-LTI-E
This document is used to demonstrate compliance with requirements in 110.9, 110.12(c), 130.0, 130.1, 140.6 and 141.0(b)2 for indoor lighting scopes using the prescriptive path for nonresidential and hotel/motel occupancies. It is also used to document compliance with requirements in 160.5, 170.2(e) and 180.2(b)4 for indoor lighting scopes using the prescriptive path for multifamily occupancies. Multifamily includes dormitory and senior living facilities.		
Project Name: MLK Jr Youth Services Center / YAP	**Report Page:**	**(Page 1 of 10)**
Project Address: 1730 Oregon Street	**Date Prepared:**	3/6/2025

A. GENERAL INFORMATION

01	Project Location (city)	Berkeley	04	Total Conditioned Floor Area (ft²)	12,324
02	Climate Zone	3	05	Total Unconditioned Floor Area (ft²)	0
03	Occupancy Types Within Project (select all that apply):		06	# of Stories (Habitable Above Grade)	1

● Classroom ● Convention Center ● Data Center ● Gymnasium ● Office ● Support Areas ● Warehouse ● All Other Occupancies

B. PROJECT SCOPE

This table includes any lighting systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in 140.6 / 170.2(e) or 141.0(b)2 / 180.2(b)4 for alterations.

Scope of Work	Conditioned Spaces		Unconditioned Spaces	
01	02	03	04	05
My Project Consists of (check all that apply):	Calculation Method	Area (ft²)	Calculation Method	Area (ft²)
☒ New Lighting System	Area Category Method	12324	Area Category Method	0
☐ New Lighting System - Parking Garage				
Total Area of Work (ft²)	12324		0	

STATE OF CALIFORNIA
Indoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-LTI-E
Project Name: MLK Jr Youth Services Center / YAP	**Report Page:**	**(Page 2 of 10)**
	Date Prepared:	3/6/2025

C. COMPLIANCE RESULTS

If any cell on this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D. for guidance.

Lighting in conditioned and unconditioned spaces must not be combined for compliance per 140.6(b)1 / 170.2(e)	Allowed Lighting Power per 140.6(b) / 170.2(e) (Watts)						Adjusted Lighting Power per 140.6(a) / 170.2(e) (Watts)				Compliance Results
	01	02	03	04		05	06	07		08	09
	Complete Building 140.6(c)1	Area Category 140.6(c)2 / 170.2(e)4	Area Category Additional 140.6(c)2G / 170.2(e)4Av (+)	Tailored 140.6(c)3 / 170.2(e)4B (+)	=	**Total Allowed** (Watts)	Total Designed (Watts)	Adjustments PAF Lighting Control Credits 140.6(a)2 / 170.2(e)1B (-)	=	**Total Adjusted** (Watts) *Includes Adjustments	**05 must be >= 08 140.6 / 170.2(e)**
	(See Table I)	(See Table I)	(See Table J)	(See Table K)			(See Table F)	(See Table P)			
Conditioned		6,882.3	0		=	6,882	6,578	0	=	6578	COMPLIES
Unconditioned					=				=		
								Controls Compliance (See Table H for Details)			COMPLIES
								Rated Power Reduction Compliance (See Table Q for Details)			

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.

Project Title:

CITY OF BERKELEY
PARKS, RECREATION & WATERFRONT DEPARTMENT

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Stamp:

REGISTERED PROFESSIONAL ENGINEER COLEEN EDWARDS No.E14738 Exp. 6/25 ELECTRICAL STATE OF CALIFORNIA

03/12/25

No.	Description	Date
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Issue Note: PERMIT RESUBMITTAL 03/07/25

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Project ID:	YAP
Drawn by:	Author
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Plot Date:	12/2/24
Scale:	

Sheet Title:
TITLE 24 DOCUMENTATION

Sheet No.:
E8.01

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I. LIGHTING POWER ALLOWANCE: COMPLETE BUILDING OR AREA CATEGORY METHODS

Kitchen	Kitchen/ Food Preparation	0.95	415	394.2	No	No
Storage	Commercial Industrial Warehouse	0.4	261.4	104.6	No	No
Restrooms	Restroom	0.65	573.5	372.8	No	No
Enclosed Offices	Office (<=250 square feet)	0.65	412.2	267.9	No	No
Util / Elec	Electrical Mechancial Telephone Room	0.4	1,053	421.2	No	No
Music Production	Classroom, Lecture, or Training Vocational	0.6	142.6	85.6	No	No
		TOTALS:	12,324.4	6,882.3	See Tables J, or P for detail	

J. ADDITIONAL ALLOWANCE: AREA CATEGORY METHOD QUALIFYING LIGHTING SYSTEM

This section does not apply to this project.

K. TAILORED METHOD GENERAL LIGHTING POWER ALLOWANCE

This section does not apply to this project.

L. ADDITIONAL LIGHTING ALLOWANCE: TAILORED WALL DISPLAY

This section does not apply to this project.

M. ADDITIONAL LIGHTING ALLOWANCE: TAILORED FLOOR AND TASK LIGHTING

This section does not apply to this project.

N. ADDITIONAL LIGHTING ALLOWANCE: TAILORED DECORATIVE /SPECIAL EFFECTS

This section does not apply to this project.

O. ADDITIONAL LIGHTING ALLOWANCE: TAILORED VERY VALUABLE MERCHANDISE

This section does not apply to this project.

P. POWER ADJUSTMENT: LIGHTING CONTROL CREDIT (POWER ADJUSTMENT FACTOR (PAF))

This section does not apply to this project.

Q. RATED POWER REDUCTION COMPLIANCE FOR ONE-FOR-ONE ALTERATIONS

This section does not apply to this project.

R. 80% LIGHTING POWER FOR ALL ALTERATIONS - CONTROLS EXCEPTIONS

This section does not apply to this project.

S. DAYLIGHT DESIGN POWER ADJUSTMENT FACTOR (PAF)

This section does not apply to this project.

T. DWELLING UNIT LIGHTING

This section does not apply to this project.

U. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

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

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

H. INDOOR LIGHTING CONTROLS (Not including PAFs)

Area Level Controls

04	05	06	07	08	09	10	11	12	
Area Description	Complete Building or Area Category Primary Function Area	Manual Area Controls 130.1(a) / 160.5(b)4A	Multi-Level Controls 130.1(b) / 160.5(b)4B	Shut-Off Controls 130.1(c) // 160.5(b)4C	Primary/Skylit Daylighting 130.1(d) / 160.5(b)4D	Secondary Daylighting 130.1(d) / 160.5(b)4D	Interlocked Systems 140.6(a)1/ 170.2(e)2A	Field Inspector	
								Pass	Fail
122 - Community Room 2	Convention, Conference, Multipurpose and Meeting Center	Readily Accessible	Dimmer	Occupancy Sensor	Included	Included	No	☐	☐
121 - Community Room 1	Convention, Conference, Multipurpose and Meeting Center	Readily Accessible	Dimmer	Occupancy Sensor	Included	Included	No	☐	☐
120 - Lounge	Lounge	Readily Accessible	Dimmer	Occupancy Sensor	Included	Included	No	☐	☐
119 - Computer	Copy Room	Readily Accessible	Dimmer	Occupancy Sensor	Included	Included	No	☐	☐
All Offices	Office (<=250 square feet)	Readily Accessible	Dimmer	Occupancy Sensor	NA: General Ltg < 120W	NA: General Ltg < 120W	No	☐	☐
Kitchen	Kitchen/ Food Preparation	Readily Accessible	Dimmer	Occupancy Sensor	NA: Rm < 24sf Glazing	NA: Rm < 24sf Glazing	No	☐	☐
Storage	Commercial Industrial Storage Area	Readily Accessible	NA: Enclosed area w/ 1 luminaire <=2 Lamps	Occupancy Sensor	NA: Rm < 24sf Glazing	NA: Rm < 24sf Glazing	No	☐	☐
Corridors	Corridor	Auth. Personnel	Dimmer	Occupancy Sensor	NA: Rm < 24sf Glazing	NA: Rm < 24sf Glazing	No	☐	☐
Music Rooms	Classroom, Lecture, or Training Vocational	Readily Accessible	Dimmer	Occupancy Sensor	NA: Rm < 24sf Glazing	NA: Rm < 24sf Glazing	No	☐	☐
Gym	Exercise Center Gymnasium	Readily Accessible	Dimmer	See Building Level	Included	Included	No	☐	☐

H. INDOOR LIGHTING CONTROLS (Not including PAFs)

Electrical	Electrical Mechancial Telephone Room	Readily Accessible	NA: Enclosed area w/ 1 luminaire <=2 Lamps	See Building Level	NA: Rm < 24sf Glazing	NA: Rm < 24sf Glazing	No	☐	☐
IT/Utility	Copy Room	Readily Accessible	Multilevel Switch	Occupancy Sensor	NA: Rm < 24sf Glazing	NA: Rm < 24sf Glazing	No	☐	☐
Restrooms	Restroom	Auth. Personnel	NA: Restrooms	Occupancy Sensor	NA: Rm < 24sf Glazing	NA: Rm < 24sf Glazing	No	☐	☐
Staff Utility	Electrical Mechancial Telephone Room	Readily Accessible	Dimmer	Occupancy Sensor	NA: Rm < 24sf Glazing	NA: Rm < 24sf Glazing	No	☐	☐
Entrance Lobby	Main Entry Lobby	Auth. Personnel	Dimmer	Occupancy Sensor	Included	NA: Overhang	No	☐	☐
					13				
					Plan Sheet Showing Daylit Zones:				

I. LIGHTING POWER ALLOWANCE: COMPLETE BUILDING OR AREA CATEGORY METHODS

Each area complying using the Complete Building or Area Category Methods per 140.6(b) are included in this table. Column 06 indicates if additional lighting power allowances per 140.6(c) or adjustments per 140.6(a) are being used .

Conditioned Spaces

01	02	03	04	05	06	
Area Description	Complete Building or Area Category Primary Function Area	Allowed Density (W/ft^2)	Area (ft^2)	Allowed Wattage (Watts)	Additional Allowance / Adjustment	
					Area Category	PAF
Gym Area	Exercise Center Gymnasium	0.5	5,773.8	2,886.9	No	No
Corridors	Corridor	0.4	762	304.8	No	No
Entrance Lobby	Main Entry Lobby	0.7	196.7	137.7	No	No
Conference/Multi-Purpose	Convention, Conference, Multipurpose and Meeting Center	0.75	1,598.4	1,198.8	No	No
Lounge	Lounge	0.55	582.3	320.3	No	No
Computer	Copy Room	0.7	553.5	387.5	No	No

Project Title:

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03/12/25

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Sheet Title:
TITLE 24 DOCUMENTATION

Sheet No.:
E8.02

3/12/2025 10:57:05 AM

STATE OF CALIFORNIA
Outdoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTO-E
This document is used to demonstrate compliance with requirements in 110.9, 130.0, 130.2, 140.7, and 141.0(b)2L for outdoor lighting scopes using the prescriptive path for nonresidential and hotel/motel occupancies. It is also used to document compliance with requirements in 160.5, 170.2(e)6, 180.1(a) and 180.2(b)4Bv for outdoor lighting scopes using the prescriptive path for multifamily and mixed-use occupancies. Multifamily includes dormitory and senior living facilities.	
Project Name: MLK Jr Youth Services Center / YAP	**Report Page:** (Page 1 of 8)
Project Address: 1730 Oregon Street	**Date Prepared:** 3/6/2025

A. GENERAL INFORMATION

01	Project Location (city)	Berkeley	04	Total Illuminated Hardscape Area (ft²)	2254
02	Climate Zone	3			
03	Outdoor Lighting Zone per Title 24 Part 1 10.114 or as designated by Authority Having Jurisdiction (AHJ):				
☐	LZ-0: Very Low - Undeveloped Parkland	☒ LZ-2: Moderate - Urban Clusters	☐	LZ-4: High - Must be reviewed by CA Energy Commission for Approval	
☐	LZ-1: Low - Rural Areas	☐ LZ-3: Moderately High - Urban Areas			
05	Occupancy Types within Project				
● Classroom ● Convention Center ● Data Center ● Gymnasium ● Office ● Support Areas ● Warehouse ● Warehouse					

B. PROJECT SCOPE

This table includes outdoor lighting systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in 140.7 / 170.2(e)6 or 141.0(b)2L / 180.2(b)4Bv for alterations.

My Project Consists of:

01	02	
☒ New Lighting System	Must Comply with Allowances from 140.7 / 170.2(e)6	
☐ Altered Lighting System	Is your alteration increasing the connected lighting load (Watts)? ○ Yes ○ No	
03	04	05
% of Existing Luminaires Being Altered[1]	Sum Total of Luminaires Being Added or Altered	Calculation Method
☐ < 10% ☐ >= 10% and < 50% ☐ >= 50%		

Please proceed to Table F. Outdoor Lighting Fixture Schedule to define the project's luminaires.

[1] *FOOTNOTES: % of Existing Luminaires Being Altered = (Sum Total of Luminaires Being Added or Altered / Existing Luminaires within the Scope of the Permit Application) x 100.*

STATE OF CALIFORNIA
Outdoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTO-E
Project Name: MLK Jr Youth Services Center / YAP	**Report Page:** (Page 2 of 8)
	Date Prepared: 3/6/2025

C. COMPLIANCE RESULTS

Results in this table are automatically calculated from data input and calculations in Tables F through N. 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.

Calculations of Total Allowed Lighting Power (Watts) 140.7 / 170.2(e)6 or 141.0(b)2L / 180.2(b)4Bv											Compliance Results			
01		02		03		04		05		06		07		08	09
General Hardscape Allowance 140.7(d)1 / 170.2(e)6 (See Table I)	+	Per Application 140.7(d)2 / 170.2(e)6 (See Table J)	+	Sales Frontage 140.7(d)2 (See Table K)	+	Ornamental 140.7(d)2 / 170.2(e)6 (See Table L)	+	Per Specific Area 140.7(d)2 / 170.2(e)6 (See Table M)	OR	Existing Power Allowance 141.0(b)2L / 180.2(b)4Bv (See Table N)	=	**Total Allowed** (Watts)	≥	**Total Actual** (Watts)	**07 must be >= 08**
357	+	---	+	---	+	---	+	53.4	OR	---	=	411	≥	410	COMPLIES
Shielding Compliance (See Table G for Details)															N/A
Controls Compliance (See Table H for Details)															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.

STATE OF CALIFORNIA
Indoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-E
Project Name: MLK Jr Youth Services Center / YAP	**Report Page:** (Page 9 of 10)
	Date Prepared: 3/6/2025

V. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

Selections have been made based on information provided in this document. If any selections have been changed by the permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and any with "-A" in the form name must be completed through an Acceptance Test Technician Certification Provider (ATTCP). For more information visit: http://www.energy.ca.gov/title24/attcp/providers.html

Form/Title	Systems/Spaces To Be Field Verified
NRCA-LTI-02-A - Must be submitted for occupancy sensors and automatic time switch controls.	Whole Building Time Switch; 122 - Community Room 2; 121 - Community Room 1; 120 - Lounge; 119 - Computer; All Offices; Kitchen; Storage; Corridors; Music Rooms; IT/Utility; Restrooms; Staff Utility; Entrance Lobby;
NRCA-LTI-03-A - Must be submitted for automatic daylight controls.	122 - Community Room 2; 121 - Community Room 1; 120 - Lounge; 119 - Computer; Gym; Entrance Lobby;
NRCA-LTI-04-A - Must be submitted for demand responsive lighting controls.	Whole Building Demand Response;

STATE OF CALIFORNIA
Indoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-E
Project Name: MLK Jr Youth Services Center / YAP	**Report Page:** (Page 10 of 10)
Project Address: 1730 Oregon Street	**Date Prepared:** 3/6/2025

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

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

Documentation Author Name: Pieter Colenbrander	Documentation Author Signature: P. Colenbrander
Company: O'Mahony & Myer	Signature Date: 2025-03-06
Address: 4340 Redwood Hwy Suite 245	CEA/ HERS Certification Identification (if applicable): E14738
City/State/Zip: San Rafael CA 94903	Phone: 415-492-0420

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 provides to the building owner at occupancy.

Responsible Designer Name: Pieter Colenbrander	Responsible Designer Signature: P. Colenbrander
Company: O'Mahony & Myer	Date Signed: 2025-03-06
Address: 4340 Redwood Hwy Suite 245	License: E14738
City/State/Zip: San Rafael CA 94903	Phone: 415-492-0420

Project Title:

CITY OF BERKELEY
PARKS, RECREATION & WATERFRONT DEPARTMENT

MLK JR YOUTH SERVICES CENTER / YAP

1730 Oregon Street, Berkeley, CA 94703
APN#: 053-1676-001-02

Design Firm:
SIEGEL & STRAIN Architects
6201 Doyle Street, Suite B
Emeryville, CA 94608
TEL 510 / 547-8092
info@siegelstrain.com

Consultant:
O'MAHONY & MYER
ELECTRICAL ENGINEERING & LIGHTING DESIGN
4340 REDWOOD HWY., SUITE 245
SAN RAFAEL, CALIFORNIA 94903
(415) 492-0420 FAX (415) 479-9662

Stamp:

REGISTERED PROFESSIONAL ENGINEER COLEN BROOK No.E14738 Exp. 6/25 ELECTRICAL STATE OF CALIFORNIA
03/12/25

No.	Description	Date
	PERMIT SET	12/04/24
1	PLAN CHECK #1	03/07/25

Issue Note: PERMIT RESUBMITTAL 03/07/25

City Plan No.:	8286
City File No.:	402-145
Specification No.:	#25-11695-C
Project ID:	YAP
Drawn by:	Author
Checked by:	Checker
Plot Date:	12/2/24
Scale:	

Sheet Title:
TITLE 24 DOCUMENTATION

Sheet No.:
E8.03

3/12/2025 10:57:06 AM

I. LIGHTING POWER ALLOWANCE (per 140.7 / 170.2(e))

This table includes areas using allowance calculations per 140.7 / 170.2(e). General Hardscape Allowance is per Table 140.7-A/Table 170.2-R while "Use it or lose it" Allowances are per Table 140.7-B /Table 170.2-S. Indicate which allowances are being used to expand sections for user input. Luminaires that qualify for one of the "Use it or lose it" allowances shall not qualify for another "Use it or lose it" allowance.
Outdoor lighting attached to multifamily buildings and controlled from the inside of a dwelling unit are included in Table H. and are not included here. All other multifamily outdoor lighting is included here.

01				
	"Use it or lose it" Allowance (select all that apply) (select all that apply)			
☒ General Hardscape Allowance Table I (below)	☐ Per Application Table J	☐ Sales Frontage Table K	☐ Ornamental Table L	☒ Per Specific Area Table M

Calculated General Hardscape Lighting Power Allowance per Table 140.7-A for Nonresidential & Hotel/Motel

02	03	04	05	06	07	08	09
Area Description	Area Wattage Allowance (AWA)			Linear Wattage Allowance (LWA)			Total General AWA + LWA (Watts)
	Illuminated Area (ft^2)	Allowed Density (W/ft^2)	Area Allowance (Watts)	Perimeter Length (lf)	Allowed Density (W/lf)	Linear Allowance (Watts)	
Pedestrian POT	2254	0.019	42.8	764	0.2	114.5	157
						Initial Wattage Allowance for Entire Site (Watts):	200
						Instances of Initial Wattage Allowance (LZ 0 only)[1]	
						Total General Hardscape Allowance (Watts):	357

J. LIGHTING ALLOWANCE: PER APPLICATION

This section does not apply to this project.

K. LIGHTING ALLOWANCE: SALES FRONTAGE

This section does not apply to this project.

L. LIGHTING ALLOWANCE: ORNAMENTAL

This section does not apply to this project.

STATE OF CALIFORNIA
Outdoor Lighting CALIFORNIA ENERGY COMMISSION

F. OUTDOOR LIGHTING FIXTURE SCHEDULE

For new or altered lighting systems demonstrating compliance with 140.7 / 170.2(e)6 all new luminaires being installed and any existing luminaires remaining or being moved within the spaces covered by the permit application are included in the Table below. For altered lighting systems using the Existing Power method per 141.0(b)2L only new luminaires being installed and replacement luminaires being installed as part of the project scope are included (ie, existing luminaires remaining or existing luminaires being moved are not included). Outdoor lighting attached to multifamily buildings and controlled from the inside of a dwelling unit are included in Table H. and are not included here. All other multifamily outdoor lighting is included here.

Designed Wattage:

01	02		03	04	05	06	07	08	09	10	
Name or Item Tag	Complete Luminaire Description		Watts per luminaire[1, 2]	How is Wattage determined	Total Number Luminaires [2]	Luminaire Status[3]	Excluded per 140.7(a) / 170.2(e)6A	Design Watts	Cutoff Req. > 6,200 initial lumen output 130.2(b) / 160.5(c)[1][4]	Field Inspector	
										Pass	Fail
BA1	BA1	☐ Linear	12	Mfr. Spec	16	New	☐	192	NA: < 6200 lumens	☐	☐
BC1	BC1	☐ Linear	116	Mfr. Spec	1	New	☐	116	NA: < 6200 lumens	☐	☐
BC2	BC2	☐ Linear	102	Mfr. Spec	1	New	☐	102	NA: < 6200 lumens	☐	☐
							Total Design Watts:	410			

* NOTES: Selections with a * require a note in the space below explaining how compliance is achieved.
EX: Luminaire is lighting a statue; EXCEPTION 2 to 130.2(b)

[1] FOOTNOTES: Authority Having Jurisdiction may ask for Luminaire cut sheets to confirm wattage used for compliance per 130.0(c) / 160.5(b)
[2] For linear luminaires, wattage should be indicated as W/lf instead of Watts/luminaire. Total linear feet should be indicated in column 05 instead of number of luminaires.
[3] Select "New" for new luminaires in a new outdoor lighting project, or for added luminaires in an alteration. Select "Altered" for replacement luminaires in an alteration. Select "Existing to Remain" for existing luminaires within the project scope that are not being altered and are remaining. Select "Existing Reinstalled" for existing luminaires which are being removed and reinstalled as part of the project scope.
[4] Compliance with mandatory shielding requirements is required for luminaires with initial lumen output >= 6,200 unless exempted by 130.2(b)/ 160.5(c)

G. SHIELDING REQUIREMENTS (BUG)

This section does not apply to this project.

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance
Generated Date/Time:
Report Version: 2022.0.000
Schema Version: rev 20220101
Documentation Software: EnergyPro
Compliance ID: EnergyPro-8069-0325-0608
Report Generated: 2025-03-06 12:06:25

STATE OF CALIFORNIA
Outdoor Lighting CALIFORNIA ENERGY COMMISSION

M. LIGHTING ALLOWANCE: PER SPECIFIC AREA

This table includes areas using the wattage allowance per specific area from Table 140.7-B /Table 170.2-S. More than one specific area allowance may be taken in a single project, if applicable. However, multiple specific area allowances may not be taken for the exact same area on the site.

01	02	03	04	05	06	07	08	09	10
Area Description	Specific Area Type per Table 140.7-B	CALCULATED ALLOWANCE (Watts)			DESIGN WATTS				Additional Allowance (Watts)
		Specific Area (ft^2)[1]	Allowed Density (W/ft^2)	Extra Allowance (Watts)	Luminaire Name or Item Tag	Watts per Luminaire	# of Luminaires	Design Watts	
Building Facade and Signage	BuildingFacade	533.8	0.1	53.4	BC1	116	1	116	53.4
					BC2	102	1	102	
							Total Design Watts for this Area:	218	
								Total Allowance (Watts) All Areas:	53.4

[1] FOOTNOTES: See Table 140.7-B /Table 170.2-S for rules for calculating the specific areas (ft^2 for these additional lighting allowances.
[2] For luminaires indicated in Table F as linear, wattage in column 07 is W/lf instead of Watts/luminaire. Total linear feet should be indicated in column 08 instead of number of luminaires.

N. EXISTING CONDITIONS POWER ALLOWANCE (alterations only)

This section does not apply to this project.

O. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Selections have been made based on information provided in this document. If any selection has 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-LTO-E - Must be submitted for all buildings

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance
Generated Date/Time:
Report Version: 2022.0.000
Schema Version: rev 20220101
Documentation Software: EnergyPro
Compliance ID: EnergyPro-8069-0325-0608
Report Generated: 2025-03-06 12:06:25

STATE OF CALIFORNIA
Outdoor Lighting CALIFORNIA ENERGY COMMISSION

H. OUTDOOR LIGHTING CONTROLS

This table demonstrates compliance with controls requirements for all new or altered luminaires installed as part of the permit application. For alteration projects, luminaires which are existing to remain (ie untouched) and luminaires which are removed and reinstalled (wiring only) do not need to be included in this table even if they are within the spaces covered by the permit application.
Outdoor lighting for nonresidential buildings, parking garages and common service areas in multifamily buildings must be documented separately from outdoor lighting attached to multifamily buildings and controlled from the inside of a dwelling unit

Mandatory Controls for Nonresidential Occupancies, Parking Garages & Common Areas in Multifamily Buildings

01	02	03	04	05	
Area Description	Shut-Off 130.2(c)1 / 160.5(c)	Auto-Schedule 130.2(c)2 / 160.5(c)	Motion Sensor 130.2(c)3 / 160.5(c)	Field Inspector	
				Pass	Fail
Exterior Building Mounted	Astronomical Timer	Provided	FacadeGTE24Ft	☐	☐

[1] FOOTNOTE: Text has been abbreviated, please refer to Table 160.5-A to confirm compliance with the specific light source technologies listed.
[2] Authority having jurisdiction may ask for cutsheets or other documentation to confirm compliance of light source.
[3] Recessed luminaires marked for use in fire-rated installations, and recessed luminaires installed in non-insulated ceilings are excepted from ii and iii.

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance
Generated Date/Time:
Report Version: 2022.0.000
Schema Version: rev 20220101
Documentation Software: EnergyPro
Compliance ID: EnergyPro-8069-0325-0608
Report Generated: 2025-03-06 12:06:25

Project Title:

CITY OF BERKELEY
PARKS, RECREATION & WATERFRONT DEPARTMENT

MLK JR YOUTH SERVICES CENTER / YAP

1730 Oregon Street, Berkeley, CA 94703
APN#: 053-1676-001-02

Design Firm:
SIEGEL & STRAIN Architects
6201 Doyle Street, Suite B
Emeryville, CA 94608
TEL 510 / 547-8092
info@siegelstrain.com

Consultant:
O'MAHONY & MYER
ELECTRICAL ENGINEERING & LIGHTING DESIGN
4340 REDWOOD HWY., SUITE 245
SAN RAFAEL, CALIFORNIA 94903
(415) 492-0420/FAX (415) 479-9662

Stamp:

REGISTERED PROFESSIONAL ENGINEER COLEEN MYER No.E14738 Exp. 6/25 ELECTRICAL STATE OF CALIFORNIA
03/12/25

No.	Description	Date
	PERMIT SET	12/04/24
1	PLAN CHECK #1	03/07/25

Issue Note: PERMIT RESUBMITTAL 03/07/25

City Plan No.:	8286
City File No.:	402-145
Specification No.:	#25-11695-C
Project ID:	YAP
Drawn by:	Author
Checked by:	Checker
Plot Date:	12/2/24
Scale:	

Sheet Title: TITLE 24 DOCUMENTATION

Sheet No.: E8.04

3/12/2025 10:57:06 AM

STATE OF CALIFORNIA
Outdoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-LTO-E
Project Name: MLK Jr Youth Services Center / YAP	**Report Page:**	**(Page 7 of 8)**
	Date Prepared:	3/6/2025

P. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

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Form/Title	Systems/Spaces To Be Field Verified
NRCA-LTO-02-A - Must be submitted for all outdoor lighting controls except for alterations where controls are added to <= 20 luminaires.	Exterior Building Mounted;

STATE OF CALIFORNIA
Outdoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-LTO-E
Project Name: MLK Jr Youth Services Center / YAP	**Report Page:**	**(Page 8 of 8)**
Project Address: 1730 Oregon Street	**Date Prepared:**	3/6/2025

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

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

Documentation Author Name: Pieter Colenbrander	Documentation Author Signature: P. Colenbrander
Company: O'Mahony & Myer	Signature Date:
Address: 4340 Redwood Hwy Suite 245	CEA/ HERS Certification Identification (if applicable): E14738
City/State/Zip: San Rafael CA 94903	Phone: 415-492-0420

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 provides to the building owner at occupancy.

Responsible Designer Name: Pieter Colenbrander	Responsible Designer Signature: P. Colenbrander
Company: O'Mahony & Myer	Date Signed: 2025-03-06
Address: 4340 Redwood Hwy Suite 245	License: E14738
City/State/Zip: San Rafael CA 94903	Phone: 415-492-0420

Project Title:

CITY OF BERKELEY
PARKS, RECREATION & WATERFRONT DEPARTMENT

MLK JR YOUTH SERVICES CENTER / YAP

1730 Oregon Street, Berkeley, CA 94703
APN#: 053-1676-001-02

Design Firm:
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TEL 510 / 547-8092
info@siegelstrain.com

Consultant:
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ELECTRICAL ENGINEERING & LIGHTING DESIGN
4340 REDWOOD HWY., SUITE 245
SAN RAFAEL, CALIFORNIA 94903
(415) 492-0420/FAX (415) 479-9662

Stamp:

REGISTERED PROFESSIONAL ENGINEER
COLENBRANDER
No.E14738
Exp. 6/25
ELECTRICAL
STATE OF CALIFORNIA

03/12/25

No.	Description	Date
	PERMIT SET	12/04/24
1	PLAN CHECK #1	03/07/25

Issue Note: PERMIT RESUBMITTAL 03/07/25

City Plan No.:	8286
City File No.:	402-145
Specification No.:	#25-11695-C
Project ID:	YAP
Drawn by:	Author
Checked by:	Checker
Plot Date:	12/2/24
Scale:	

Sheet Title:
TITLE 24 DOCUMENTATION

Sheet No.:
E8.05

3/12/2025 10:57:07 AM

STATE OF CALIFORNIA
Electrical Power Distribution CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-ELC-E
Project Name: MLK Junior Youth Services Center / YAP	**Report Page:**	**(Page 4 of 5)**
	Date Prepared:	2025-03-06T19:00:53-05:00

H. VOLTAGE DROP

** 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".

I. CIRCUIT CONTROLS FOR 120-VOLT RECEPTACLES AND CONTROLLED RECEPTACLES

This table includes entirely new or complete replacement electrical power distribution systems to demonstrate compliance with 130.5(d)/ 160.6(d).. Both controlled and uncontrolled receptacles must be provided in office areas, lobbies, conference rooms, kitchen areas in office spaces, copy rooms and hotel/motel guest rooms.

01	02	03	04	05	06	07	
Room name or Description	Location/ Type of Controlled Receptacles[1]	Shut-Off Controls	Demand Responsive Controls	Permanent Durable Marking Will be Used	Location of Requirements in Construction Documents	Field Inspector	
						Pass	Fail
Sheet E3.01	---	---		☐		☐	☐

** NOTES: If "Other*" is selected under Shut-Off Controls above, please indicate how compliance has been achieved in the space provided below.*

[1] FOOTNOTES: Receptacles dedicated to refrigerators and water dispensers in kitchens, located a minimum of 6ft above the floor specifically for clocks, network copiers, fax machines, A/V and data equipment other than personal computers in copy rooms, circuits rated more than 20 Amps, or connected to a UPS that are intended to be in continuous use and are marked to differentiate them from other receptacles or circuits are excepted from the requirements. .

K. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

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

L. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

There are no NRCA forms required for this project.

STATE OF CALIFORNIA
Electrical Power Distribution CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-ELC-E
Project Name: MLK Junior Youth Services Center / YAP	**Report Page:**	**(Page 5 of 5)**
Project Address:	**Date Prepared:**	2025-03-06T19:00:53-05:00

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

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

Documentation Author Name: Pieter Colenbrander	Documentation Author Signature: P. Colenbrander
Company: O'Mahony & Myer	Signature Date: 03/06/2025
Address:	CEA/ HERS Certification Identification (if applicable):
City/State/Zip:	Phone:

RESPONSIBLE PERSON'S DECLARATION STATEMENT

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Responsible Designer Name:	Pieter Colenbrander	Responsible Designer Signature:	P. Colenbrander
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City/State/Zip:	San Rafael, CA 94903	Phone:	(415) 492-0420

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: MLK Junior Youth Services Center / YAP	**Report Page:**	**(Page 1 of 5)**
Project Address:	**Date Prepared:**	2025-03-06T19:00:53-05:00

A. GENERAL INFORMATION

01	Project Location (city)	Berkeley	02	Climate Zone	3
			03	Occupancy Types Within Project:	GymnasiumRestaurantSupport Areas

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 main service in West Main Electric Room.	Complete replacement service equipment and meter	200	☒	☐	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: MLK Junior Youth Services Center / YAP	**Report Page:**	**(Page 2 of 5)**
	Date Prepared:	2025-03-06T19:00:53-05:00

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	Yes	AND	Yes	AND	Yes		COMPLIES with Exceptional Conditions

D. EXCEPTIONAL CONDITIONS

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

Table B indicates the project is exempt from 130.5(a) Service Electrical Metering requirements because the utility company has provided the project a metering system that indicates instantaneous kW demand and kWh for a utility-defined period.

E. ADDITIONAL REMARKS

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

STATE OF CALIFORNIA
Electrical Power Distribution CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-ELC-E
Project Name: MLK Junior Youth Services Center / YAP	**Report Page:**	**(Page 3 of 5)**
	Date Prepared:	2025-03-06T19:00:53-05:00

G. SEPARATION OF ELECTRICAL CIRCUITS FOR ENERGY MONITORING

This table includes entirely new or complete replacement electrical power distribution systems to demonstrate compliance with 130.5(b)/ 160.6(b). Any load types that are not included in the service do not need to be shown. For multifamily occupancies, submetered systems that provide power to dwelling units do not need to meet these separation requirements and therefore load types on those submetered systems also do not need to be shown.

01	02	03	04	05	
Load Type per Table 130.5-B[1]	Minimum Required Separation of Load per Table 130.5-B	Compliance Method[2]	Location of Requirements in Construction Documents	Field Inspector	
				Pass	Fail
New main service in West Main Electric Room.					
Industrial/Commercial Load Centers greater than or equal to 25kVA	All loads in aggregate	Method 3: Branch circuits serve load types individually & provisions for adding future branch curcuit monitoring	Sheet E3.01 and Panel Schedules sheet E6.01	☐	☐

** NOTES: If "Other*" is selected under Compliance Method above, please indicate how compliance has been achieved in the space provided below.*

[1] FOOTNOTES: For each separate load type, up to 10% of the connected load may be of any type.
[2] Method 1: Switchboards/ motor control centers/ panelboard loads disaggregated for each load type.
Method 2: Switchboards/ motor control centers/ panelboard supply other distribution equipment with loads disaggregated for each load type.
Method 3: Branch circuits serve load types individually and provisions for adding future branch circuit monitoring.
Method 4: Complete metering system measures and reports loads by type.
See Chapter 8 of the Nonresidential Compliance Manual for more detail on Compliance Methods.

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)2Piii/ 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 main service in West Main Electric Room.	☒ Voltage drop less than 5%	☐	Permitted by CA Elec Code (Exception to 130.5(c))*	In construction documents	Single Line Diagram sheet E5.01	☐	☐

Project Title:

CITY OF BERKELEY
PARKS, RECREATION & WATERFRONT DEPARTMENT

MLK JR YOUTH SERVICES CENTER / YAP

1730 Oregon Street, Berkeley, CA 94703
APN#: 053-1676-001-02

Design Firm:
SIEGEL & STRAIN Architects
6201 Doyle Street, Suite B
Emeryville, CA 94608
TEL 510 / 547-8092
info@siegelstrain.com

Consultant:
O'MAHONY & MYER
ELECTRICAL ENGINEERING & LIGHTING DESIGN
4340 REDWOOD HWY., SUITE 245
SAN RAFAEL, CALIFORNIA 94903
(415) 492-0420/FAX (415) 479-9662

Stamp:

REGISTERED PROFESSIONAL ENGINEER COLEN BRANDER No.E14738 Exp. 6/25 ELECTRICAL STATE OF CALIFORNIA
03/12/25

No.	Description	Date
	PERMIT SET	12/04/24
1	PLAN CHECK #1	03/07/25

Issue Note: PERMIT RESUBMITTAL 03/07/25

City Plan No.:	8286
City File No.:	402-145
Specification No.:	#25-11695-C
Project ID:	YAP
Drawn by:	Author
Checked by:	Checker
Plot Date:	12/2/24
Scale:	

Sheet Title:
TITLE 24 DOCUMENTATION

Sheet No.:
E8.06

3/12/2025 10:57:08 AM

PV INVERTER

Three Phase Inverter with Synergy Technology

For the 277/480V Grid for North America

SE80KUS / SE100KUS / SE110KUS / SE120KUS

MODEL NUMBER	SE80KUS	SE100KUS	SE110KUS	SE120KUS	
APPLICABLE TO INVERTERS WITH PART NUMBER	SExxK-USx8xxxxx				UNITS
OUTPUT					
Rated AC Active Output Power	80000	100000	110000	120000	W
Maximum AC Apparent Output Power	80000	100000	120000	120000	VA
AC Output Line Connections	3W + PE, 4W + PE				
Supported Grids	WYE: TN-C, TN-S, TN-C-S, TT, IT; Delta: IT				
AC Output Voltage Minimum–Nominal–Maximum[1] (L-N)	244 – 277 – 305				Vac
AC Output Voltage Minimum–Nominal–Maximum[1] (L-L)	422.5 – 480 – 529				Vac
AC Frequency Min-Nom-Max[1]	59.5 – 60 – 60.5				Hz
Maximum Continuous Output Current (per Phase, PF=1)	96.5	120	144.3		Aac
GFDI Threshold	1				A
Utility Monitoring, Islanding Protection, Configurable Power Factor, Country Configurable Thresholds	Yes				
Total Harmonic Distortion	≤ 3				%
Power Factor Range	±0.85 to 1				
INPUT					
Maximum DC Power (Module STC) Inverter / Synergy Unit	140000 / 70000	175000 / 58300	210000 / 70000		W
Transformer-less, Ungrounded	Yes				
Maximum Input Voltage DC+ to DC-	1000				Vdc
Operating Voltage Range	850 – 1000				Vdc
Maximum Input Current	2 x 48.25	3 x 40	3 x 48.25		Adc
Reverse-Polarity Protection	Yes				
Ground-Fault Isolation Detection	167kΩ sensitivity per Synergy Unit[2]				
CEC Weighted Efficiency	98.5				%
Nighttime Power Consumption	< 8	< 12			W
ADDITIONAL FEATURES					
Supported Communication Interfaces[3]	2 x RS485, Ethernet, Wi-Fi (optional), Cellular (optional)				
Smart Energy Management	Export Limitation				
Inverter Commissioning	With the SetApp mobile application using built-in Wi-Fi access point for local connection				
Arc Fault Protection	Built-in, User Configurable (According to UL1699B)				
Photovoltaic Rapid Shutdown System	EC 2014, 2017 and 2020, Built-in				
PID Rectifier	Nighttime, built-in				
RS485 Surge Protection (ports 1+2)	Type II, field replaceable, integrated				
AC, DC Surge Protection	Type II, field replaceable, integrated				
DC Fuses (Single Pole)	25A, integrated				
DC SAFETY SWITCH					
DC Disconnect	Built-in				
STANDARD COMPLIANCE					
Safety	UL1699B, UL1741, UL1741 SA, UL1741 SB, UL1998, CSA C22.2#107.1, Canadian AFCI according to T.I.L. M-07				
Grid Connection Standards	IEEE 1547-2018, Rule 21, Rule 14 (H)				
Emissions	FCC part 15 class A				

(1) For other regional settings please contact SolarEdge support.
(2) Where permitted by local regulations.
(3) For specifications of the optional communication options, visit the Communication product page or the Knowledge Center to download the relevant product datasheet.

INVERTER

Three Phase Inverter with Synergy Technology

For the 277/480V Grid for North America

SE80KUS / SE100KUS / SE110KUS / SE120KUS



Powered by unique pre-commissioning process for rapid system installation

- Pre-commissioning feature for automated validation of system components and wiring during the site installation process and prior to grid connection
- Easy 2-person installation with lightweight, modular design (each inverter consists of 2 or 3 Synergy units and 1 Synergy Manager)
- Independent operation of each Synergy unit enables higher uptime and easy serviceability
- Built-in thermal sensors detect faulty wiring, ensuring enhanced protection and safety
- Built-in arc fault protection and rapid shutdown
- Built-in PID mitigation for maximized system performance
- Monitored* and field-replaceable surge protection devices, to better withstand surges caused by lightning or other events
- Built-in module-level monitoring with Ethernet or cellular communication for full system visibility

*Applicable only for DC and AC SPDs

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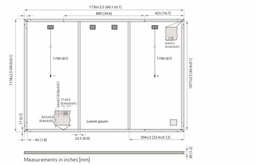
PV MODULE

REC ALPHA PURE-R SERIES

PRODUCT SPECIFICATIONS

REC
SOLAR'S MOST TRUSTED

GENERAL DATA	
Cell type:	80 half-cut REC bifacial, heterojunction cells with lead-free, gapless technology
Glass:	0.13in (3.2mm) solar glass with anti-reflective surface treatment in accordance with EN 12150
Backsheet:	Highly resistant polymer (black)
Frame:	Anodized aluminum (black)
Junction box:	4-part, 4 bypass diodes, lead-free IP68 rated, in accordance with IEC 62790
Connectors:	Staubli MC4 PV-KBT4/KST4 (12 AWG) in accordance with IEC 62852, IP68 only when connected
Cable:	12 AWG (4 mm²) PV wire, 67 + 67 in (1.7 + 1.7 m) in accordance with EN 50618
Dimensions:	68.1 x 44.0 x 1.2 in (2077 ft²) / 1730 x 1118 x 30 mm (1.93 m²)
Weight:	47.4 lbs (21.5 kg)
Origin:	Made in Singapore



ELECTRICAL DATA	Product Code*: REC xxx AA PURE-R			
STC				
Power Output - P_{max} (Wp)	400	410	420	430
Watt Class Sorting - (W)	0/+10	0/+10	0/+10	0/+10
Nominal Power Voltage - V_{mpp} (V)	48.8	49.4	50.0	50.5
Nominal Power Current - I_{mpp} (A)	8.20	8.30	8.40	8.52
Open Circuit Voltage - V_{oc} (V)	58.9	59.2	59.4	59.7
Short Circuit Current - I_{sc} (A)	8.80	8.86	8.91	8.97
Power Density (W/ft²)	19.26	19.74	20.22	20.70
Panel Efficiency (%)	20.7	21.2	21.8	22.3
NMOT				
Power Output - P_{max} (Wp)	305	312	320	327
Nominal Power Voltage - V_{mpp} (V)	46.0	46.6	47.1	47.6
Nominal Power Current - I_{mpp} (A)	6.64	6.70	6.80	6.88
Open Circuit Voltage - V_{oc} (V)	55.5	55.8	56.0	56.3
Short Circuit Current - I_{sc} (A)	7.11	7.16	7.20	7.24

Values at standard test conditions (STC: air mass AM 1.5, irradiance 1037 W/m²/1000 W/m²), temperature 77°F (25°C), based on a production spread with a tolerance of P_{max}, V_{oc} & I_{sc} ±3% within one watt class. Nominal module operating temperature (NMOT: air mass AM 1.5, irradiance 800 W/m², temperature 69°F (20°C), windspeed 3.3 ft/s (1 m/s). *Where xxx indicates the nominal power class (P_{max}) at STC above.

MAXIMUM RATINGS	
Operational temperature:	-40...+185°F (-40...+85°C)
System voltage:	1000 V
Test load (front):	+7000 Pa (146 lbs/ft²)*
Test load (rear):	-4000 Pa (83.5 lbs/ft²)*
Series fuse rating:	25 A
Reverse current:	25 A

*See installation manual for mounting instructions. Design load = Test load / 1.5 (safety factor)

WARRANTY			
	Standard	REC ProTrust	
Installed by an REC Certified Solar Professional System Size	No	Yes	Yes
	All	<25 kW	25-500 kW
Product Warranty (yrs)	20	25	25
Power Warranty (yrs)	25	25	25
Labor Warranty (yrs)	0	25	10
Power in Year 1	98%	98%	98%
Annual Degradation	0.25%	0.25%	0.25%
Power in Year 25	92%	92%	92%

The REC ProTrust Warranty is only available on panels purchased through an REC Certified Solar Professional installer. Warranty conditions apply. See www.recgroup.com for more details.

Available from:

Founded in 1996, REC Group is an international pioneering solar energy company dedicated to empowering consumers with clean, affordable solar power. As Solar's Most Trusted, REC is committed to high quality, innovation, and a low carbon footprint in the solar materials and solar panels it manufactures. Headquartered in Norway with operational headquarters in Singapore, REC also has regional hubs in North America, Europe, and Asia-Pacific.

CERTIFICATIONS	
IEC 61215-2016, IEC 61730-2016, UL 61730	
IEC 62804	PID
IEC 61701	Salt Mist
IEC 62716	Ammonia Resistance
UL 61730	Fire Type Class 2
IEC 62782	Dynamic Mechanical Load
IEC 61215-2:2016	Hailstone (35mm)
IEC 62321	Lead-free acc. to RoHS EU 863/2015
ISO 14001, ISO 9001, IEC 45001, IEC 62941	

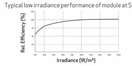
TEMPERATURE RATINGS*	
Nominal Module Operating Temperature:	44°C (±2°C)
Temperature coefficient of P_{max}	-0.24 %/°C
Temperature coefficient of V_{oc}	-0.24 %/°C
Temperature coefficient of I_{sc}	0.04 %/°C

*The temperature coefficients stated are linear values

DELIVERY INFORMATION	
Panels per pallet:	33
Panels per 40 ft GP/high cube container:	858 (26 pallets)
Panels per 53 ft truck:	858 (26 pallets)

LOW LIGHT BEHAVIOUR

Typical low irradiance performance of module at STC:



Specifications subject to change without notice.

Ref: PD'20_EAPR Rev.1 2020

REC Solar PTE. LTD.
20 Tuas South Ave. 14
Singapore 637312
post@recgroup.com

REC
www.recgroup.com



BATTERY STORAGE LFP (LITHIUM IRON PHOSPHATE, UL 9540A)

Three Phase Inverter with Synergy Technology

For the 277/480V Grid for North America

SE80KUS / SE100KUS / SE110KUS / SE120KUS

MODEL NUMBER	SE80KUS	SE100KUS	SE110KUS	SE120KUS	
APPLICABLE TO INVERTERS WITH PART NUMBER	SExxK-USx8xxxxx				UNITS
INSTALLATION SPECIFICATIONS					
Number of Synergy Units per Inverter	2	3			
AC Max Conduit Size	2 ½"				in
Max AWG Line / PE	4/0 / 1/0				
DC Max Conduit Size	1 x 3"; 2 x 2"				in
DC Input Inverter/ Synergy Unit — Multi-input (SExxK-USxxxxxZ4)	8 / 4 pairs; 6-12 AWG	12 / 4 pairs; 6-12 AWG			
DC Input Inverter/ Synergy Unit — Combined input (SExxK-USxxxxxW4)	2 pairs / 1 pair, Max 2 AWG, copper or aluminum	3 pairs / 1 pair, Max 2 AWG, copper or aluminum			
Dimensions (H x W x D)	Synergy Unit: 22 x 12.9 x 10.75 / 558 x 328 x 273 Synergy Manager: 14.17 x 22.4 x 11.6 / 360 x 560 x 295				in / mm
Weight	Synergy Unit: 70.4 / 32 Synergy Manager: 39.6 / 18				lb / kg
Operating Temperature Range	-40 to +140 / -40 to +60[4]				°F / °C
Cooling	Fan (user replaceable)				
Noise	< 67				dBA
Protection Rating	NEMA 3R				
Mounting	Brackets provided				

(4) For power de-rating information refer to the Temperature Derating Technical Note for North America

eSpire mini

FULLY INTERGRATED, PRE-CONFIGURED ENERGY STORAGE SOLUTION

FORTRESS POWER

Battery Capacity	81/122/184 kWh	122/184/244 kWh	184/266 kWh
DC Data			
Battery Chemistry	Lithium Iron Phosphate		
Cell Life Cycle	80% Retention with 6,000 cycles @ 1 C 25 C		
Cell Spec	3.2Vdc / 100Ah		
Cell Configuration/Pack	2P16S		
Pack Spec	51.2 V / 200 Ah		
Pack Nominal Energy (kwH)	10.24 kWh		
String Rack Configuration	1P8S	1P12S	2P9S
Rack Nominal Energy	81 kWh	122 kWh	184 kWh
Rack Nominal Voltage	409.6 Vdc	614.4 Vdc	460.8 Vdc
Voltage Range	358.4 - 467.2 Vdc	537.6 - 700.8 Vdc	403 - 525.6 Vdc
BMS Communication Interface	RS485 via Serial, Ethernet via Cat 5 or Cat 6		
BMS Communication Protocol	Modbus RTU, Modbus TCP		
AC Data			
PCS Rated AC Power	30 kW	60 kW	90 kW
Rated Grid Voltage	480 Vac / 208 Vac	480 Vac / 208 Vac	480 Vac / (208 Vac)*
Grid Voltage Range	± 15% / + 10%		
AC Rated Current	36.1 / 83.3 Amps	72.2 / 166.5 Amps	108.3 / 250 Amps
Islanding Switch	100 kW Autotransfer Switch (ATS)	Active Switching Transfer Time: Seamless	
Output THDi	< 3%		
Grid Connected Power Factor	1 (leading) - 1 (lagging)		
Grid Frequency Range	50 Hz / 60 Hz ±2.5%		
Wiring Configuration	3 Phase 4 Wire (3P4W Configuration)		
PV Input (DC Coupled Only)			
PV Input Power	45 kW	90 kW	135 kW
PV Input Voltage Range	200 - 810 Vdc		
General Data			
Dimensions without Clearance (W x D x H)	82.7 x 47.2 x 92.5 in (2100 x 1200 x 2350 mm)		
Weight of Whole System	Up to 5253.5 lbs		
Enclosure Degree of Protection	NEMA 3R / IP54		
Operating Temperature Range	-22 F to 131 F (-30 C to 55 C)		
Relative Humidity	0 ~ 90% (No Condensing)		
Max Altitude	10,000 ft (3,000 m)		
Noise Level	70 dB		
Cooling System	Forced Air Cooling		
Communication Interface	RS485, Ethernet, HMI		
Certificates	UL1973, UL9540(A), UL1741-SB, IEEE-1547, IEEE-519, (UL9540, CEC, SGIP pending)		

(1)* External Transformer is required

www.FortressPower.com • Sales@FortressPower.com • 877-497-6937

eSpire mini

FULLY INTERGRATED, PRE-CONFIGURED ENERGY STORAGE SOLUTION

FORTRESS POWER



ONE SOLUTION FOR ALL

- Large Residential - Light Commercial (3Ph 208/480Vac @ 60Hz)
- Microgrid, Backup, Off-Grid, Peak Shaving, Time of Use, Self-Supply, Demand Response, and VPP
- AC and DC Coupling Options
- Scalable Energy Storage Capacity (81 - 266 kWh per unit)
- Indoor and Outdoor Installation

Sample Applications

Residential homes & Multi-family | Grocery Stores & Convenience Stores | Charging Stations & Service Areas | Schools, Banks, & Hospitals

Product Features

Turnkey Solution for Fast Install
Fully integrated, pre-configured package system reduces on-site installation time: includes inverter(s), battery trays, racks, BMS, Microgrid Controller, HVAC, fire suppression, islanding switch, and outdoor rated enclosure.

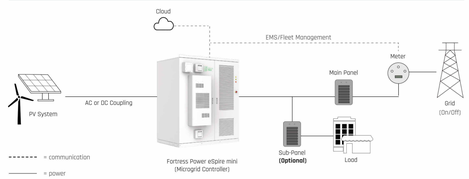
Built-in Microgrid Controls
Ability to integrate with solar, genset, wind, micro-turbines, utility, or other distributed energy resources.

Adaptive Intelligent EMS / Fleet Management
Intelligent software to reduce electricity cost, prepare for resiliency, and maximize return on investment. Remote operation and maintenance for multiple sites.

Safe Technology & Multi-level Protection
Tier 1 Lithium Iron Phosphate (LFP) chemistry for the highest level of safety, thermal stability, and reliability; An integrated, multi-level Battery Management System (BMS) monitors, optimizes, and balances the system.

Easy & Flexible to scale (Easy scalability)
This outdoor rated, modular solution can be expanded depending on the energy and power requirement at either 208Vac or 480Vac with a maximum of 2 units in parallel.

Excellent Local Support
Our US based technical support team can help you from project design to completion.



Project Title:

CITY OF BERKELEY
PARKS, RECREATION & WATERFRONT DEPARTMENT

MLK JR YOUTH SERVICES CENTER / YAP

1730 Oregon Street, Berkeley, CA 94703

APN#: 053-1676-001-02

Design Firm:

SIEGEL & STRAIN Architects
6201 Doyle Street, Suite B
Emeryville, CA 94608
TEL 510 / 547-8092
info@siegelstrain.com

Consultant:

O'MAHONY & MYER
ELECTRICAL ENGINEERING & LIGHTING DESIGN
4340 REDWOOD HWY., SUITE 245
SAN RAFAEL, CALIFORNIA 94903
(415) 492-0420/FAX (415) 479-9662

Stamp:

REGISTERED PROFESSIONAL ENGINEER — JAMES C. COLEY — No.E14738 — Exp. 6/25 — ELECTRICAL — STATE OF CALIFORNIA

03/12/25

No.	Description	Date
	PERMIT SET	12/04/24
1	PLAN CHECK #1	03/07/25

Issue Note: PERMIT RESUBMITTAL 03/07/25

City Plan No.:	8286
City File No.:	402-145
Specification No.:	#25-11695-C
Project ID:	YAP
Drawn by:	Author
Checked by:	Checker
Plot Date:	12/2/24
Scale:	

Sheet Title: DATA SHEETS

Sheet No.: E9.01

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SHEET INDEX

SE0.1 SECURITY GENERAL NOTES & INFORMATION
SE2.1 SECURITY FLOOR PLAN
SE2.4 SECURITY REFLECTED CEILING PLAN
SE4.1 SECURITY ELEVATIONS & DETAILS

GENERAL NOTES

A. ALL EQUIPMENT MUST BE APPROVED BY OWNER PRIOR TO INSTALLATION.
B. COORDINATE AND FIELD VERIFY EXACT LOCATION AND MOUNTING REQUIREMENTS OF ALL SECURITY DEVICES WITH THE OWNER PRIOR TO INSTALLATION.
C. PROVIDE AND INSTALL ALL CONDUIT PER THE DIVISION 26 SPECIFICATIONS.
D. FIRE SEAL ALL WALL PENETRATIONS AND CORES PER THE DIVISION 01 AND DIVISION 26 SPECIFICATIONS.
E. ELECTRIFIED DOOR HARDWARE PROVIDED AND INSTALLED PER THE DIVISION 08 SPECIFICATIONS.
F. INSTALL ALL PLENUM CABLE RUNS PERPENDICULAR OR PARALLEL TO BUILDING WALL AND COLUMN LINES.
G. UTILIZE NEW CABLE HANGERS TO SUPPORT ALL PLENUM CABLE RUNS. DO NOT ALLOW PLENUM CABLE TO REST ON CEILING GRID AND DO NOT STRAP CABLING TO CEILING GRID HANGERS.
H. REQUEST TO EXIT DEVICES DO NOT PRECLUDE EXITING FROM THE INTERIOR. ALL EXITS ARE FREE EGRESS AND SHALL NOT REQUIRE THE USE OF A KEY OR ANY SPECIAL KNOWLEDGE OR EFFORT. ALL EXITING REQUIREMENTS SHALL CONFORM TO CALIFORNIA BUILDING CODE 1003.3.1.8.

LEGEND

- SWITCH PLATE CARD READER – AMAG – DIV 28
- (A) ALARM CONTACT – SENTROL/GE – DIV 28
- (AP) INTRUSION ALARM PANEL – TBD – DIV 28
- (DA) DOOR ACTUATOR – TBD – DIV 08
- (DO) DOOR OPERATOR – TBD – DIV 08
- (EP) ELECTRIC EXIT DEVICE – TBD – DIV 08
- (GB) GLASS BREAK DETECTOR – GE – DIV 28
- (IC) INTELLIGENT CONTROLLER – AMAG – DIV 28
- (KP) ALARM KEYPAD – TBD – DIV 28
- (M) MOTION DETECTOR – TBD – DIV 28
- [MON] VIDEO MONITOR – TBD – DIV 28 (TO BE INCLUDED IN ADD–ALT #1)
- [NVR] NETWORK VIDEO RECORDER – TBD – DIV 28 (TO BE INCLUDED IN ADD–ALT #1)
- NETWORK CONNECTION – DIV 27
- [P/S] POWER SUPPLY 12VDC/24VDC – ALTRONIX – DIV 28
- (RX) REQUEST–TO–EXIT SWITCH – INTEGRAL W/ LOCK – DIV 08
- (WT) WIRE TRANSFER – TBD – DIV 08
- (XF70K) MULTI–IMAGER CAMERA – AXIS – DIV 28 (TO BE INCLUDED IN ADD–ALT #1)
- 120VAC/20A DUPLEX OUTLET – DIV 26
- (SE4.01/3) DETAIL REFERENCE

ABBREVIATIONS

A.F.F.	ABOVE FINISHED FLOOR
A.F.G.	ABOVE FINISHED GRADE
BATT	BATTERY
C.P.U.	CENTRAL PROCESSING UNIT
C.	CONDUIT
C.O.	CONDUIT ONLY
DIV.	DIVISION
(E)	EXISTING
EA.	EACH
F.B.O.	FURNISHED BY OTHERS
F.C.	FLEX CONDUIT
(N)	NEW
NEC	NATIONAL ELECTRICAL CODE
N.I.C.	NOT IN CONTRACT
O.C.	ON CENTER
O.H.	OPPOSITE HAND
PIR	PASSIVE INFRARED
PR.	PAIR
P.S.	POWER SUPPLY
REX	REQUEST-TO-EXIT (FOR DOOR STATUS MONITORING ONLY)
SIM	SIMILAR
TBD	TO BE DETERMINED
TYP.	TYPICAL
U.O.N.	UNLESS OTHERWISE NOTED
U.P.S.	UNINTERRUPTIBLE POWER SUPPLY

CABLE SCHEDULE

CALLOUT:	PART NO:	MANUFACTURER:	WIRE SIZE:
A	25221, OR EQUAL	WEST PENN	22AWC/2C TWISTED/UNSHIELDED
B	25224, OR EQUAL	WEST PENN	18AWC/4C TWISTED/UNSHIELDED
C	1PR2216P, OR EQUAL	WEST PENN	OSDP 22/1PR + 16/2 TWISTED SHIELDED
E	2071E GIGASPEED XL	SYSTEMAX	CATEGORY 6A - PATCH CORD

Project Title:

CITY OF BERKELEY
PARKS, RECREATION & WATERFRONT DEPARTMENT

MLK JR. YOUTH SERVICES CENTER / YAP SEISMIC RETROFIT AND RENOVATION

1730 Oregon Street, Berkeley, CA 94703
APN#: 053-1676-001-02

Design Firm:
.\Siegel_&_Strain_logo_small.jpg
6201 Doyle Street, Suite B
Emeryville, CA 94608
TEL 510 / 547-8092
info@siegelstrain.com

Consultant:
CATALYST
CONSULTING GROUP, INC.
SECURITY PLANNING AND DESIGN
1163 Larkin Way Napa, CA 94558
707 224–3020

Stamp:

No.	Description	Date
	PERMIT SET	12/04/24

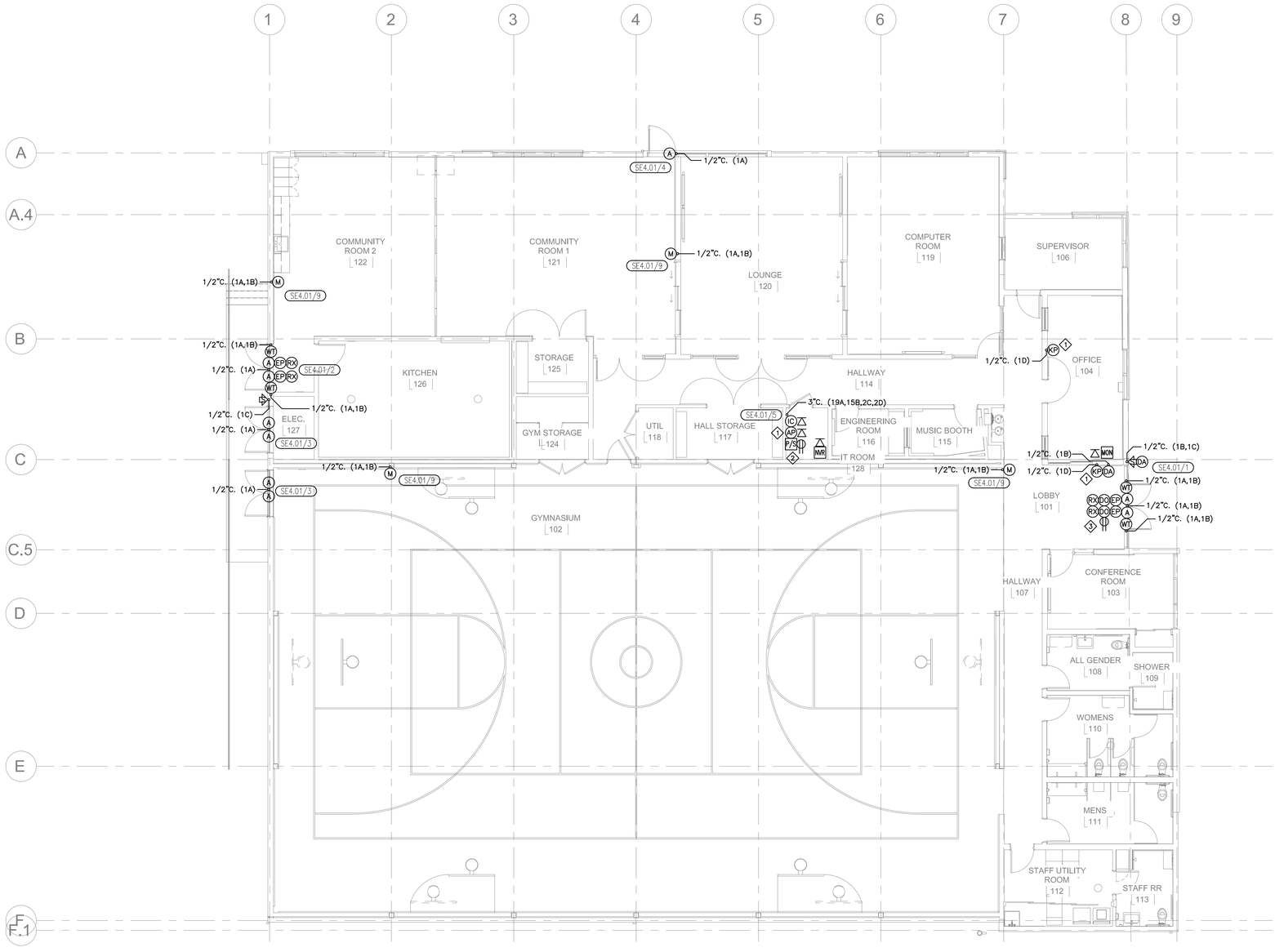
Issue Note: PERMIT RESUBMITTAL 03/07/25

City Plan No.:	8286
City File No.:	402-145
Specification No.:	#25-11695-C
Project ID:	YAP
Drawn by:	KW
Checked by:	KW
Plot Date:	10/30/24
Scale:	NONE

Sheet Title: SECURITY GENERAL NOTES & INFOMRATION

Sheet No.: SE0.01

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1 SE2.01 SECURITY FIRST FLOOR

1/8" = 1'-0" @ 22" x 34" 1/16" = 1'-0" @ 11" x 17"

N

0 4 8 16 ft.

GENERAL NOTES

1. MOTION DETECTORS, GLASS BREAK DETECTORS, STAND–ALONE ALARM CONTACTS AND 2ND POLE OF CARD READER DOOR ALARM CONTACTS TO BE TERMINATED TO ALARM PANEL, SOLE SOURCE FROM SENTRY ALARM SYSTEMS.
2. NETWORK DATA DROPS AND NETWORK CABLING PROVIDED PER DIV. 27.
3. INCLUDE NVR AND INSTALLATION COSTS IN ADD ALTERNATE #1

SHEET NOTES

1. ALARM PANEL AND KEYPADS, SOLE SOURCE FROM SENTRY ALARM SYSTEMS.
2. 120VAC POWER (BY DIV. 26) AT SECURITY PANEL SHOWN FOR REFERENCE AND COORDINATION ONLY. SEE E–SERIES SHEETS FOR DETAILS.
3. 120VAC POWER (BY DIV. 26) TO DOOR OPERATOR (BY DIV.08) SHOWN FOR REFERENCE ONLY. SEE E–SERIES SHEETS FOR DETAILS.

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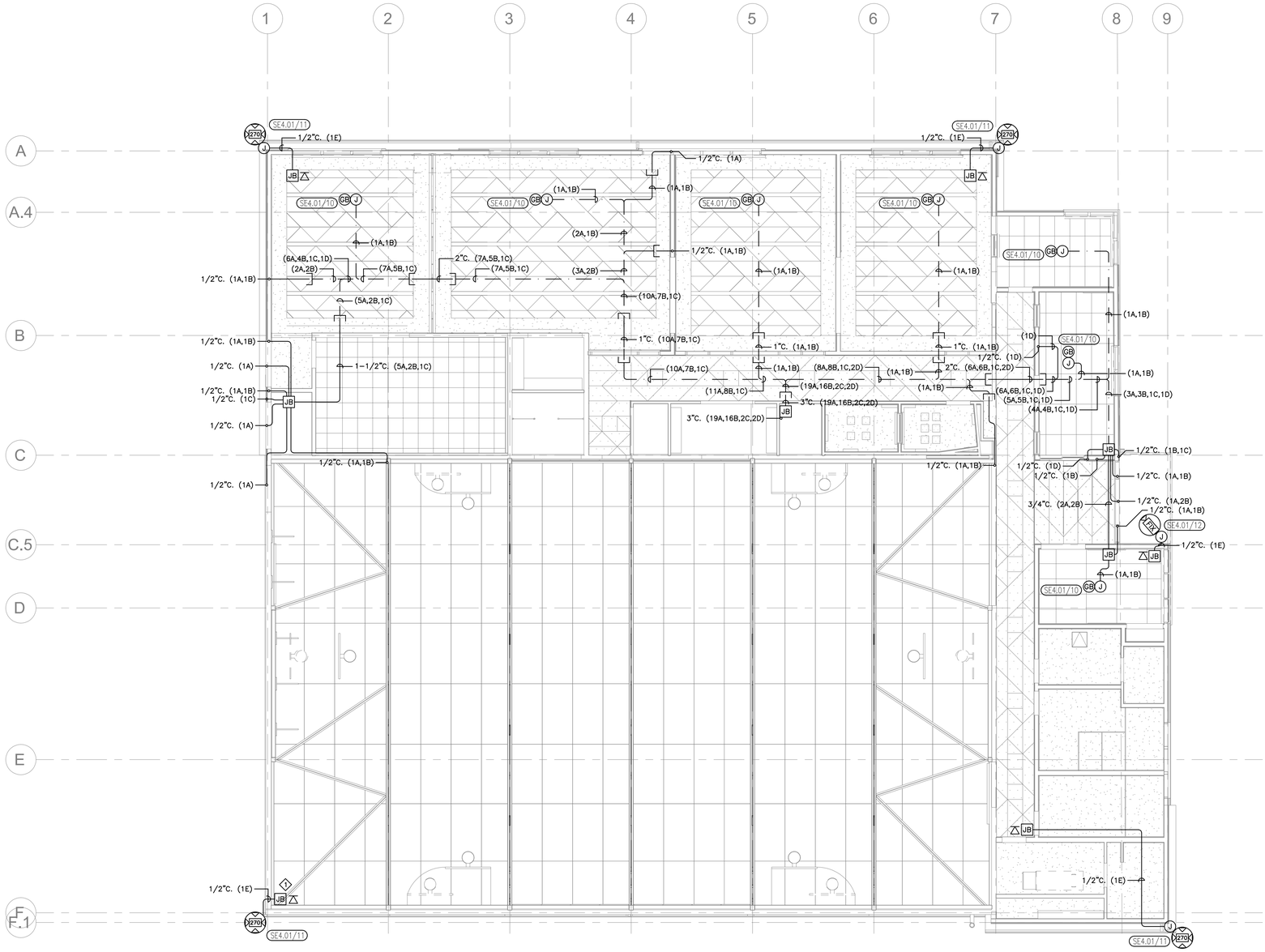
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Sheet Title: SECURITY FLOOR PLAN

Sheet No.: SE2.01

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1 SE2.04 SECURITY REFLECTED CEILING PLAN

1/8" = 1'-0" @ 22" x 34" 1/16" = 1'-0" @ 11" x 17"

GENERAL NOTES

1. INSTALL ALL JUNCTION BOXES, CONDUIT AND CABLING SHOWN ON RCP ABOVE CEILINGS IN ACCESSIBLE LOCATIONS.
2. FLUSH MOUNT GLASS BREAK DETECTORS IN CENTER OF CEILING TILES WHERE SHOWN.
3. NETWORK DATA DROPS AND NETWORK CABLING PROVIDED PER DIV. 27.
4. PROVIDE JUNCTION BOXES (RECESSED IN SOFFITS), CONDUIT, AND CABLING FOR ALL CAMERAS.
5. INCLUDE CAMERAS AND INSTALLATION COSTS IN ADD ALTERNATE #1.

SHEET NOTES

1. SURFACE MOUNT JUNCTION BOX AT 12' TO CENTER, A.F.F.

N

0 4 8 16 ft.

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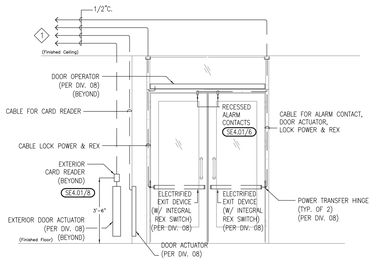
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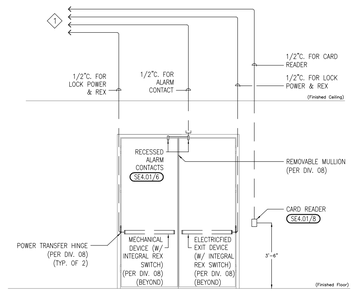
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Sheet No.: SE2.04

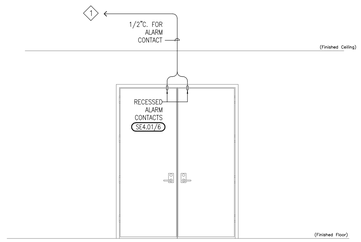
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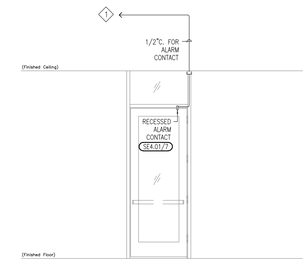
1 SE4.01 DOOR 101 ELEVATION
N.T.S



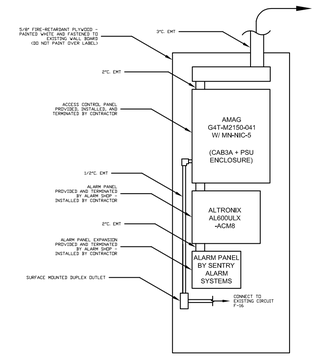
2 SE4.01 DOOR 122 ELEVATION
N.T.S



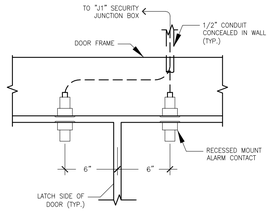
3 SE4.01 DOOR 102 & 127 ELEVATION
N.T.S



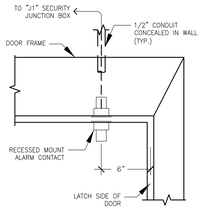
4 SE4.01 DOOR 121 ELEVATION
N.T.S



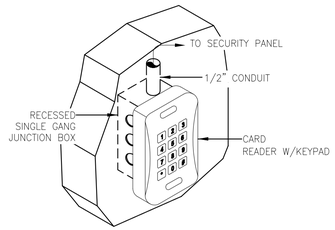
5 SE4.01 SECURITY PANEL ELEVATION
N.T.S



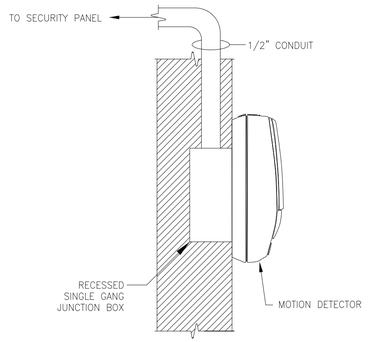
6 SE4.01 DOUBLE DOOR CONTACT DETAIL
N.T.S



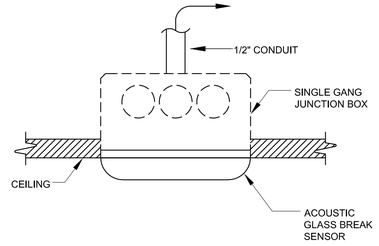
7 SE4.01 SINGLE DOOR CONTACT DETAIL
N.T.S



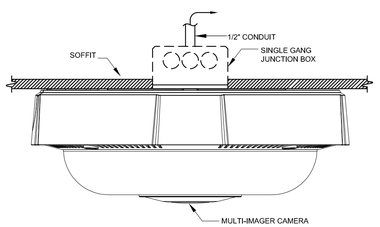
8 SE4.01 CARD READER/KEYPAD DETAIL
N.T.S



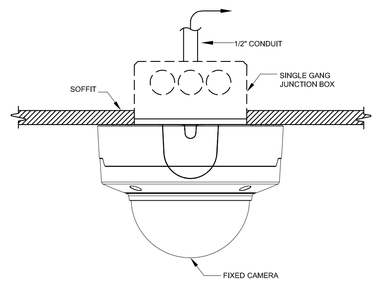
9 SE4.01 MOTION DETECTOR DETAIL
N.T.S



10 SE4.01 GLASS BREAK DETECTOR DETAIL
N.T.S



11 SE4.01 270 DEGREE CAMERA DETAIL
N.T.S



12 SE4.01 FIXED CAMERA DETAIL
N.T.S

N

0 4 8 16 ft.

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Sheet Title: SECURITY ELEVATIONS & DETAILS

Sheet No.: SE4.01

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MLK JR YOUTH SERVICES / YAP

BERKELEY, CA

GENERAL CONTRACTOR NOTES:

1. FOOD SERVICE EQUIPMENT DESIGNER IS NOT AN ARCHITECT OR AN ENGINEER. THESE DRAWINGS ARE PROVIDED FOR THE CONVENIENCE OF THE ARCHITECT, GENERAL CONTRACTOR, TRADE ENGINEERS AND SUBCONTRACTORS TO SHOW GENERAL PLACEMENT OF THE FOOD SERVICE EQUIPMENT.
2. COORDINATE ALL PHASES OF CONSTRUCTION WITH FOOD SERVICE EQUIPMENT CONTRACTOR; INCLUDING ADVANCE NOTIFICATION FOR ROUGH INSPECTIONS, FINISH PLUMBING, ELECTRICAL WORK, ROOF PAD READINESS, ETC.
3. IT IS THE RESPONSIBILITY OF THE OWNER/GENERAL CONTRACTOR TO FORWARD ALL ADDENDUM'S AND CHANGES TO THE BUILDING PLANS WHICH ARE MADE DURING THE PERMITTING & CONSTRUCTION PROCESS. OWNER WILL BE RESPONSIBLE FOR COSTS INCURRED DUE TO FAILURE OF COMMUNICATING CHANGES IN A TIMELY MANNER.
4. ROOF TOP PLAN BY THE ARCHITECT/ENGINEER; PLATFORMS BY THE G.C.
5. ROOF, CEILING & WALL PENETRATIONS PROVIDED BY THE G.C., CODE COMPLIANT CHASES TO BE PROVIDED AS NECESSARY, BY G.C. TO INCLUDE FIRE RATED SEALANT AS NEEDED.
6. EQUIPMENT PADS, CURBS & ROOF JACKS/PITCH POCKETS BY G.C.
7. ROOF TOP EQUIPMENT TO BE LIFTED BY G.C.
8. EXHAUST SYSTEM TO BE ENGINEERED AND SUPPLIED BY THE G.C. FROM THE DUCTS UP. FINAL WELD OR CONNECTION BY THE G.C. CLEAN OUTS, FIRE RATED WRAPPING/SHAFTS AND ENCLOSURES BY THE G.C. AS SPECIFIED BY LOCAL ORDINANCES. BALANCE REPORT BY G.C./OWNER REPRESENTATIVE.
9. G.C. IS THE FINAL AUTHORITY IN ASSURING THAT ALL TRADES COMPLY WITH STATE & LOCAL CODES.
10. PERMITS AND FEES ARE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR AND OWNER UNLESS OTHERWISE NOTED.
11. SITE CONDITIONS TO BE VERIFIED BY G.C., ANY VARIANCES TO BE NOTED PRIOR TO CONSTRUCTION. FSEC MUST HAVE ADEQUATE SITE & BUILDING ACCESS FOR PROPER DELIVERY AND INSTALLATION OF ALL EQUIPMENT, INCLUDING OVERSIZED PIECES.
12. CRITICAL TIME PATH TO BE GENERATED BY THE G.C. OR THE ARCHITECT.
13. ROUGH-INS INDICATED ON THIS PLAN PERTAIN TO FOOD SERVICE EQUIPMENT ONLY. ANY ADDITIONAL REQUIREMENTS INCLUDING CONVENIENCE OUTLETS AND AUXILIARY SERVICE TO BE DESIGNED BY OWNER, ARCHITECT AND ENGINEERS. FSEC TO PROVIDE ONE SITE TRIP TO CHECK OPEN STUD WALLS FOR UTILITY REVIEW.
14. G.C. TO CONFIRM INSTALLATION HEIGHT OF FLOOR SINKS WITH HEALTH DEPARTMENT PLAN CHECK.
15. WALL FINISHES IN KITCHEN AND SCULLERY ARE TO BE INSTALLED PRIOR TO INSTALLATION OF FOOD SERVICE EQUIPMENT.
16. WALK-IN PAD MUST BE SMOOTH & LEVEL FOR INSTALLATION.
17. NON-COMBUSTABLE WALLS ARE TO BE PROVIDED AT COOKING AREAS IN COMPLIANCE WITH LOCAL CODES.
18. G.C. TO PROVIDE WALL BACKING OF WOOD BLOCKING OR METAL FOR THE INSTALLATION OF SHELVES, FIRE SUPPRESSION EQUIP., LOCKERS, ETC. COORDINATE HEIGHTS WITH EQUIPMENT.
19. WALK-IN SPRINKLERS BY G.C. IF NEEDED (PROTECT FREEZER SPRINKLER IF NEEDED). SPRINKLER PENETRATIONS BY G.C./FIRE SPRINKLER CONTRACTOR.
20. G.C. TO VERIFY ALL INSTALLATION, UTILITIES REQUIREMENTS, AND SIZING OF OWNER/VENDOR/ARCHITECT/OTHERS SUPPLIED EQUIPMENT.
21. FLOOR DRAINS AND TROUGHS MUST HAVE FLOOR SLOPED PROPERLY. G.C. CONTRACTORS TO VERIFY REQUIREMENTS WITH LOCAL CODES.
22. METERS SHALL BE ORDERED AND PLACED BY THE G.C./OWNER IN A TIMELY MANNER. DELAYS MUST BE ACKNOWLEDGED WITH EQUIPMENT SUPPLIER.
23. DEBRIS BOX BY G.C. AND TO BE AVAILABLE FOR K.E.C. USE.
24. PLUMBING & ELECTRICAL CONTRACTORS ARE RESPONSIBLE TO PROVIDE ANY PARTS NECESSARY FOR FINAL CONNECTIONS.
25. SODA SYSTEM MAY REQUIRE ELECTRICAL POWER AT SOURCE OF SYRUP.
26. WALK-IN BOX TO BE WIRED COMPLETE BY ELECTRICIAN INCLUDING BUT NOT LIMITED TO INTERNAL WIRING, DOOR HEATERS, COIL, HEAT TAPE, SHUTOFFS AND COMPRESSOR.
27. WALK-IN BOX TO BE PLUMBED COMPLETE, INCLUDING BUT NOT LIMITED TO CONDENSATE DRAIN LINE.
28. G.C. SHALL BE RESPONSIBLE FOR ALL GENERAL AND FINAL CLEANUP INCLUDING PULLING S/S PROTECTION COVERING AND REPOSITIONING EQUIPMENT AFTER TRADE HOOK UPS.
29. SEAL ALL CRACKS AND CREVICES IN COUNTERS, AROUND METAL FLASHING, AND CONDUIT W/NON-HARDENING SILICON SEALANT.
30. G.C. TO PERFORM AND PROVIDE THIRD PARTY AIR BALANCE TEST FOR ALL TYPE 1 EXHAUST HOODS PRIOR TO FINAL INSPECTION. SUBMIT A COPY OF THE AIR BALANCE TEST TO ENVIRONMENTAL HEALTH ONCE COMPLETED.
31. GENERAL CONTRACTOR TO ENSURE THAT THE SLAB UNDER THE COOKLINE EQUIPMENT IS LEVEL AND NOT PITCHED.

HEALTH DEPARTMENT NOTES:

1. OWNER/OPERATOR IS REQUIRED TO TAKE OUT A SEPARATE HEALTH DEPARTMENT PERMIT.
2. ALL FOOD SERVICE AND RELATED PRODUCTS SHALL BE NATIONAL SANITARY FOUNDATION (NSF) OR (UL) APPROVED FOR FOOD SERVICE.
3. CONSTRUCTION JOINTS, CRACKS AND CREVICES IN THE BUILDING OR CABINETRY MUST BE FILLED WITH AN APPROVED SEALANT/CAULK.
4. WINDOWS THAT OPEN MUST HAVE A MIN. OF #16 MESH SCREEN.
5. DOORS TO THE OUTSIDE AND REST ROOMS MUST HAVE AUTOMATIC DOOR CLOSURE OR BE FITTED WITH AN AIR CURTAIN, AND MUST NOT HAVE MORE THAN 1/4" MAX. GAP FROM BOTTOM OF DOOR TO FINISHED FLOOR.
6. EXTERIOR PASS-THRU WINDOWS MUST BE SCREENED OR AIR CURTAINED.
7. CONDUIT FOR ELECTRICAL, PLUMBING, REFRIGERATION, SODA OR ANY OTHER SERVICE MUST BE CONCEALED IN WALLS, FLOORS, CEILING, OR 1-1/2" OFF WALL WITHIN HEALTH DEPARTMENT APPROVED CHASE RUNS WITH END RUN SEALED TIGHTLY.
8. TRASH/GARBAGE AREAS RECEIVING FOOD WASTE OR FOOD CONTAINERS MUST HAVE AN APPROVED TRASH DUMPSTER.
9. VERMIN PROOFING WILL INCLUDE BUT NOT LIMITED TO INSECTS AND RODENTS. THIS FACILITY IS TO BE CONSTRUCTED, MAINTAINED AND OPERATED AS TO PREVENT VERMIN. ADDITIONAL PREVENTION DEVICES SHALL BE PROVIDED AS REQUIRED BY LOCAL AGENCIES.
10. FLOOR SINKS AND FLOOR DRAINS WILL BE INSTALLED FOR EASY CLEANING ACCESS AND INSPECTION.
11. AT LEAST 50-FOOT CANDLES AT A SURFACE WHERE A FOOD EMPLOYEE IS WORKING WITH FOOD OR WORKING WITH UTENSILS OR EQUIPMENT SUCH AS KNIVES, SLICERS, GRINDERS, OR SAWS WHERE EMPLOYEE SAFETY IS A FACTOR AND IN OTHER AREAS AND ROOMS DURING PERIODS OF CLEANING. AT LEAST 20-FOOT CANDLES AT A DISTANCE OF 30" ABOVE THE FLOOR IN AREAS USED FOR HAND WASHING, WAREWASHING, AND EQUIPMENT AND UTENSIL STORAGE, AND IN TOILET ROOMS. MINIMUM OF 10-FOOT CANDLES IN WALK-IN COOLERS/FREEZERS & DRY STORAGE AREAS.
12. CUSTOM STAINLESS STEEL WORK EQUIPMENT SHALL MEET NSF STANDARDS.
13. POT SINKS AND DRAIN BOARDS MUST BE LARGE ENOUGH TO HOLD THE LARGEST POT/UTENSIL TO BE WASHED. DRAIN BOARDS ARE TO BE EQUAL IN SIZE OR LARGER THAN SINK COMPARTMENTS.
14. CUSTOM MILLWORK/CABINETRY SHALL HAVE SMOOTH WASHABLE SURFACES. INTERIOR SHALL BE COVERED ENTIRELY WITH PLASTIC LAMINATE. INTERIORS OF ALL CABINETRY SHALL BE WHITE OR LIGHT COLORED INSIDE.
15. EQUIPMENT SHALL HAVE 6" LEGS OR CASTERS. IF CURBS ARE PROVIDED FOR EQUIPMENT, THEY MUST BE A MIN. OF 4" IN HEIGHT WITH AN INTEGRAL 3/8" RADIUS COVE BASE & MUST BE SEALED TO CURB.
16. REFRIGERATORS ARE TO HAVE VISIBLE THERMOMETERS, PROPERLY CALIBRATED WITH DANGER ZONES CLEARLY DEFINED.
17. MOP SINK TO HAVE HOT & COLD MIXING FAUCET W/ANTI SIPHON DEVICE; CLEANING GOODS STORAGE TO BE ABOVE FAUCET.
18. HAND SINK TO HAVE HOT & COLD MIXING FAUCET AND PERMANENTLY MOUNTED TOWEL AND SOAP DISPENSERS.
19. FINISHED-FOOD PREPARATION AREAS:

FLOORS -	COMMERCIAL GRADE VINYL, APPROVED TILE, OR POURED EPOXY FLOORING
BASE -	CONTINUOUS SEALED COVED WITH $\frac{3}{8}$" RADIUS INTEGRAL WITH FLOOR
WALLS -	FLOOR TO CEILING SHEET ROCK WITH SMOOTH WATER BASED ENAMEL PAINTED SURFACE WITH 70% REFLECTION. WET AREAS TO BE FINISHED TO MINIMUM HEIGHT REQUIREMENT WITH APPROVED WATER PROOF, EASILY CLEANABLE MATERIAL
CEILING -	T-BAR SYSTEM WITH COMMERCIAL VINYL TILES OR SHEET ROCK FINISHED WITH WASHABLE ENAMEL PAINT.

SAMPLES MUST BE SUBMITTED BY GENERAL CONTRACTOR / OWNER.

1. EXHAUST HOODS SHALL BE FLASHED TO THE WALLS AND CEILING, UNLESS NOTED OTHERWISE. ALL JOINTS AND SEAMS SHALL BE LIQUID TIGHT AND SMOOTH FOR EASE OF CLEANING. APPROVED CONSTRUCTION METHODS AND MATERIALS SHALL BE USED FOR SEALING JOINTS AND SEAMS. POP RIVETS, METAL SCREWS, OR OTHER SIMILAR EXPOSED FASTENERS SHALL NOT BE USED ON INTERNAL SURFACES OF THE HOOD.

VENTILATION NOTES:

WHENEVER A REMOTE COMPRESSOR IS LOCATED IN AN ENCLOSED SPACE, TO INCLUDE ATTIC SPACES, UTILITY ROOMS/CLOSETS, BASEMENTS, ABOVE WALK-IN BOXES OR ANY ENCLOSED ROOM WITHIN A FACILITY, THE MECHANICAL ENGINEER IS RESPONSIBLE FOR REVIEWING THE AMBIENT TEMPERATURE OF THE AREA AND SPECIFYING ANY ADDITIONAL VENTING OR AIR CONDITIONING REQUIRED, TO ALLOW THE EQUIPMENT TO BREATH & OPERATE PROPERLY.

FIRE SYSTEM NOTES:

FIRE SUPPRESSION DRAWINGS FOR CLASS I EXHAUST HOODS TO BE PREPARED BY A LICENSED FIRE SYSTEM INSTALLATION COMPANY AND WILL SUBMITTED BY SAME UNDER SEPARATE PERMIT. FIRE SYSTEM INSTALLATION CONTRACTOR UNDER CONTRACT THROUGH KEC. LOCATIONS OF FIRE PULL STATION(S) TO BE CONFIRMED WITH FIRE MARSHALL PRIOR TO ROUGH-IN.

ABBREVIATIONS

&	AND	CLG	CEILING	FOC	FURNISHED BY OWNER, INSTALLED BY CONTRACTOR	ID	INSIDE DIMENSION	OD	OUTSIDE DIAMETER	S/S	STAINLESS STEEL
∠	ANGLE	COL	COLUMN			INT	INTERIOR	PDP	POWER DRIVEN PIN	STD	STANDARD
@	AT	COMP	COMPOSITE	FOS	FACE OF STUD	L	LENGTH	PH	PANIC HARDWARE	STL	STEEL
℄	CENTER LINE	CONT	CONTINUOUS	FOSTL	FACE OF STEEL	LAV	LAVATORY	PLF	PER LINEAL FOOT	STS	SELF TAPPING SCREW
Ø	DIAMETER	CPT	CARPET	FSEC	FOOD SERVICE EQUIPMENT CONTRACTOR	LF	LINEAR FOOT/FEET	PLAM	PLASTIC LAMINATE	T&G	TONGUE & GROOVE
°	DEGREE	DBL	DOUBLE	FRP	FIBERGLASS REINFORCED PANEL	LH	LEFT HAND	PLYWD	PLYWOOD	TOB	TOP OF WALK-IN BOX
℄	PLATE OR PROPERTY LINE	DET	DETAIL	FT	FOOT OR FEET	LHR	LEFT HAND REVERSED	PR	PAIR	TOP	TOP OF PAVEMENT
#	POUND OR NUMBER	DIM	DIMENSION	FTG	FOOTING	MAX	MAXIMUM	PSF	POUNDS PER SQUARE FOOT	TOF	TOP OF FLOOR
⧈	SQUARE FOOT	DSA	DIVISION OF STATE ARCHITECT	GA	GAUGE	MB	MACHINE BOLT	REINF	REINFORCING	TOS	TOP OF SLAB/STEEL
AB	ANCHOR BOLT	DWG	DRAWING	GALV	GALVANIZED	MECH	MECHANICAL	RHWS	ROUND HEAD WOOD SCREW	TOW	TOP OF WALL
ACOUS	ACOUSTIC	DCO	DUPLEX CONVENIENCE OUTLET	GSM	GALVANIZED SHEET METAL	MFR	MANUFACTURER	RHR	RIGHT HAND REVERSED	TS	TUBE STEEL
ACT	ACOUSTIC CEILING TILE	(E)	EXISTING	GWB	GYPSUM WALLBOARD	MIN	MINIMUM	RM	ROOM	TYP	TYPICAL
ACH	ABOVE COUNTER HEIGHT	EA	EACH	GYP	GYPSUM	MISC	MISCELLANEOUS	RO	ROUGH OPENING	UNO	UNLESS NOTED OTHERWISE
AFF	ABOVE FINISHED FLOOR	ELECT	ELECTRICAL	H	HEIGHT	MIW	MAL IRON WASHER	RWL	RAINWATER LEADER	VCT	VINYL
ALUM	ALUMINUM	EQ	EQUAL	HGT	HEIGHT	MOD	MODULAR	SCD	SEE CIVIL DRAWINGS	VERT	VERTICAL
ARCH	ARCHITECTURAL, ARCHITECT	EXT	EXTERIOR	HB	HOSE BIB	MTD	MOUNTED	SCH	SECTION	W	WIDTH
BD	BOARD	(F)	FUTURE	HHS	HEX HEAD SCREW	MTL	METAL	SED	SEE ELECTRICAL DRAWINGS	W/	WITH
BLDG	BUILDING	FE	FIRE EXTINGUISHER	HM	HOLLOW METAL	(N)	NEW	SIM	SIMILAR	WD	WOOD
BLKG	BLOCKING	FEC	FIRE EXTINGUISHER CABINET	HORIZ	HORIZONTAL	NIC	NOT IN CONTRACT	SMD	SEE MECHANICAL DRAWINGS		
BM	BEAM	FHWS	FLAT HEAD WOOD SCREW	HVAC	HEATING, VENTILATION, AIR CONDITIONING	NOM	NOMINAL	SMS	SHEET METAL SCREW		
BOT	BOTTOM	FIN	FINISH			NTS	NOT FOR SALE	SPD	SEE PLUMBING DRAWINGS		
BTC	BRANCH TO CONNECTION	FLR	FLOOR			OC	ON CENTER	SPEC	SPECIFICATIONS		

DISCLAIMER

MYERS RESTAURANT SUPPLY, INC. (MRS, INC.) DOES NOT REPRESENT THEMSELVES AS PROFESSIONAL ARCHITECTS OR ENGINEERS. THESE PLANS ARE NOT PROVIDED AS A RESULT OF AN AGREEMENT FOR THOSE PURPOSES. THESE PLANS ARE PROVIDED ON BEHALF OF THE PROJECT OWNER FOR THE CONVENIENCE OF THE PROJECT ARCHITECT OR ENGINEER AND THE CONTRACTORS TO LOCATE THE FOOD SERVICE EQUIPMENT AND THEIR RELEVANT UTILITIES AND TO ASSIST THE ENVIRONMENTAL HEALTH DEPARTMENT IN ACCESSING THE RELEVANT SUBMITTAL INFORMATION. CURRENT TECHNICAL INFORMATION HAS BEEN UTILIZED AND MRS, INC. WILL ASSIST IN THE RESUBMITTAL IN THE EVENT A PRODUCT OR SPECIFICATION HAS NOT MET CURRENT CODE. THE OWNER WILL CONFIRM TO THE ELECTRICIAN AND PLUMBER UTILITY REQUIREMENTS FOR OWNER SUPPLIED EQUIPMENT AND VENDOR SUPPLIED EQUIPMENT. CONTRACTORS MUST VERIFY UTILITY LOCATIONS AND APPLICABILITY TO THE BUILDING PRIOR TO COMMENCEMENT OF WORK. DISCREPANCIES ARE TO BE REVIEWED, ADJUSTED AND SIGNED OFF PRIOR TO WORK. SUBCONTRACTOR ALLOWANCES OR BACK CHARGES WILL NOT BE ACCEPTED. QUALITY OF WORK, JOB SITE CONDITIONS, LABOR DISPUTES OR CONTRACTORS AND ADHERENCE TO CODES ARE THE RESPONSIBILITY OF OTHERS. MRS IS NOT RESPONSIBLE FOR ADA (AMERICAN DISABILITIES ACT) REQUIREMENTS NOR TITLE 24 ENERGY CONSERVATION REQUIREMENTS. THESE PLANS REMAIN THE PROPERTY OF MRS, INC. UNTIL ASSIGNED TO PROJECT CLIENT.

SHEET SCHEDULE

FS-0	COVER PAGE
FS-1	FOOD SERVICE PLAN
FS-1.1	EQUIPMENT SCHEDULE
FS-2	ELECTRICAL ROUGH-IN PLAN
FS-3	PLUMBING ROUGH-IN PLAN
FS-4	BACKING/ SPECIAL CONDITIONS
FS-5~5.1	ELEVATIONS
FS-6	RESERVED
FS-7~7.1	HOOD DRAWINGS
FS-8	RESERVED

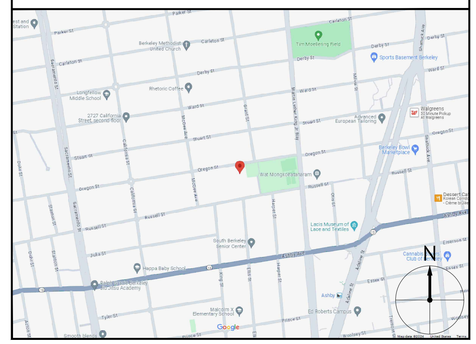
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SITE MAP



Project Title:

CITY OF BERKELEY
PARKS, RECREATION & WATERFRONT DEPARTMENT
MLK JR. YOUTH SERVICES CENTER / YAP
SEISMIC RETROFIT AND RENOVATION
1730 Oregon Street, Berkeley, CA 94703
APN#: 053-1676-001-02

Design Firm:
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6201 Doyle Street, Suite B
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Consultant:

Stamp:

	PERMIT SET	12/04/24

Issue Note: PERMIT RESUBMITTAL 03/07/25

City Plan No.:	8286
City File No.:	402-145
Specification No.:	#25-11695-C
Project ID:	YAP
Drawn by:	DR
Checked by:	JM
Plot Date:	
Scale:	

Sheet Title: COVER SHEET

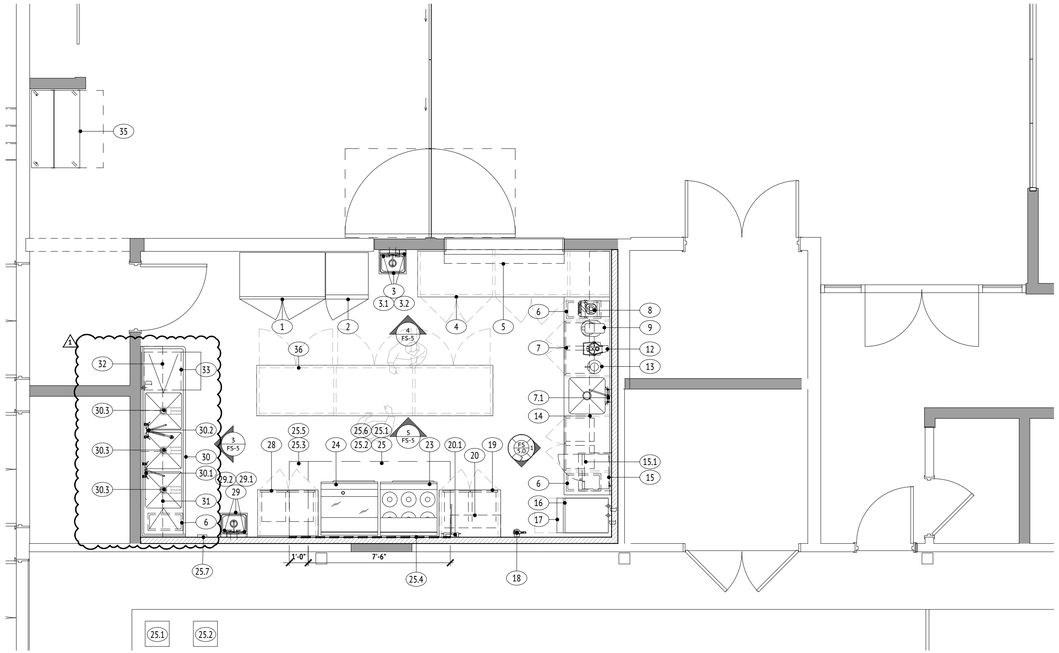
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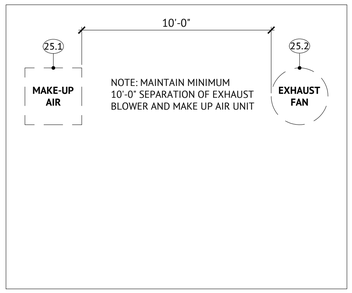
SHORT SCHEDULE

ITEM NO	QTY	EQUIPMENT CATEGORY
1	1	(BY OWNER) TWO-DOOR SELF CONTAINED REACH-IN REFRIGERATOR
2	1	SINGLE DOOR SELF CONTAINED REACH-IN FREEZER ON CASTERS WITH LOCKS
3	1	WALL MOUNTED HAND SINK W/ 4" O.C. FAUCET
3.1	1	WALL MOUNTED HAND SOAP / SANITIZER DISPENSER
3.2	1	WALL MOUNTED PAPER TOWEL DISPENSER
4	1	S/S WORK TABLE - W/ (2) S/S CABINETS - W/ S/S COUNTERTOP - APPROX: 30"W. x 126"L. - W/ TOP EXTENSION THRU WINDOW OPENING - W/ LOCKING DOORS - MOUNTED ON 6"H. LEGS
5	1	(BY G.C.) ROLL UP GATE. REFER TO ARCHITECTURAL DRAWINGS.
6	3	SLIM JIM STYLE 23 GALLON TRASH RECEPTACLE
7	1	S/S WORK TABLE - W/ (2) S/S CABINETS W/ LOCKING DRAWERS AS SHOWN - W/ S/S COUNTERTOP - W/ CUTOUT FOR (1) 23"L. X 23"W. SINK - APPROX: 30"W. x 125"L.
7.1	1	8" O.C. DECK MOUNTED FAUCET
8	1	HIGH PERFORMANCE BLENDER
9	1	(BY OWNER) COUNTERTOP PLANETARY MIXER
10		SPARE NUMBER
11		SPARE NUMBER
12	1	(BY OWNER) COUNTERTOP FOOD PROCESSOR
13	1	ELECTRIC COUNTERTOP JUICER
14	1	14"W. X 127"L. S/S WALL MOUNTED LOCKABLE CABINETS
15	1	COMMERCIAL MICROWAVE OVEN
15.1	1	WALL MOUNTED MICROWAVE SHELF 24"W. X 21"L.
16	1	CUBE-STYLE ICE MAKER
17	1	ICE BIN FOR ICE MACHINES
18	1	WATER FILTRATION SYSTEM FOR ITEM #20
19	1	S/S WORK TABLE - W/ (2) S/S LOCKING DRAWERS AS SHOWN - APPROX: 30"W. x 39"L. W/ BACKSPLASH - W/ S/S COUNTERTOP - MOUNTED ON 6" LEGS
20	1	14"W. X 32"L. S/S WALL MOUNTED LOCKABLE CABINETS
20.1	1	8"O.C. WALL MOUNTED POT FILLER FAUCET W/ 12" JOINTED SPOUT
21		SPARE NUMBER
22		SPARE NUMBER
23	1	26" ELECTRIC RANGE W/ (6) FRENCH HOTPLATES - W/ 10" S/S STUB BACK
24	1	36" ELECTRIC RANGE OVEN W/ 36" GRIDDLE - W/ 10" S/S STUB BACK
25	1	S/S TYPE 1 EXHAUST HOOD
25.1	1	SUPPLY FAN
25.2	1	EXHAUST FAN
25.3	1	ELECTRICAL PACKAGE
25.4	1	S/S WALL FLASHING
25.5	1	FIRE SUPPRESSION SYSTEM
25.6	1	S/S CLOSURE PANEL
25.7	1	DCV SMART CONTROLS
26		SPARE NUMBER
27		SPARE NUMBER
28	1	S/S WORK TABLE - W/ (2) S/S LOCKING DRAWERS AS SHOWN - APPROX: 30"W. x 39"L. W/ BACKSPLASH - W/ S/S COUNTERTOP - MOUNTED ON 6" LEGS
29	1	WALL MOUNTED HAND SINK W/ 4" O.C. FAUCET
29.1	1	WALL MOUNTED HAND SOAP / SANITIZER DISPENSER
29.2	1	WALL MOUNTED PAPER TOWEL DISPENSER
30	1	16 GAUGE 304 SERIES S/S (3) COMPARTMENT SINK - APPROX: 124"L. x 30"W. - W/ (3) 23"x23" SINK TUBS & 41 1/2" & 21 1/2" DRAINBOARD - W/ ROLLED EDGE & SCRATCH
30.1	1	8" O.C. PRE-RINSE FAUCET ASSEMBLY, WITH ADD ON FAUCET
30.2	1	8" O.C. SPLASH MOUNTED FAUCET
30.3	3	LEVER TWIST DRAIN
30.4	3	S/S SLIDE RACK AND SINK COVERS
31	1	14"W. X 54"L. S/S WALL MOUNTED PERFORATED SHELVING
32	1	14"W. X 41"L. S/S WALL MOUNTED PERFORATED SHELVING
33	1	UNDERCOUNTER LOW-TEMP DISH MACHINE
34		SPARE NUMBER
35	1	SELF-CONTAINED REFRIGERATED MILK COOLER
36	1	S/S ISLAND CABINETS & COUNTER - APPROX: 30"W. x 154"L. - W/ LOCKING CABINETS - MOUNTED ON 6" LEGS

NOTE: CLIENT TO REVIEW WITH ARCHITECT FOR THE FINAL LOCATION OF ALL POS, PRINTERS, TELEVISIONS, TELEPHONES, AUDIO/VIDEO EQUIPMENT, SECURITY, LIGHTING SWITCHES, OFFICE EQUIPMENT, COMPUTER LINE RUNS, TIME CARDS AND TIME CLOCKS. THESE COMPONENTS ARE TO BE REFLECTED ON ELECTRICIAN'S PLANS GENERATED BY ELECTRICAL ENGINEER.



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



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

LEGEND	ABBREVIATIONS
FULL HEIGHT WALLS & PARTITIONS	FSEC = FOOD SERVICE EQUIPMENT CONTRACTOR
STUB WALLS & CURBS (VERIFY HEIGHT)	PC = PLUMBING CONTRACTOR
ITEM NUMBER IDENTIFICATION SYMBOLS	EC = ELECTRICAL CONTRACTOR
ELEVATION SYMBOLS	GC = GENERAL CONTRACTOR
PLUMBING MARK SYMBOL (SEE PLUMBING ROUGH-IN PLAN)	O = OWNER
ELECTRICAL MARK SYMBOL (SEE ELECTRICAL ROUGH-IN PLAN)	HVAC = HEATING/ VENTILATION CONTRACTOR
REVISION NUMBER	NTS = NOT TO SCALE
EQUIPMENT	EXIST = EXISTING
EQUIPMENT - ABOVE	VFY = VERIFY
EQUIPMENT - BELOW	V.I.F. = VERIFY IN FIELD

Project Title:

CITY OF BERKELEY
PARKS, RECREATION & WATERFRONT DEPARTMENT
MLK JR. YOUTH SERVICES CENTER / YAP
SEISMIC RETROFIT AND RENOVATION
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	PERMIT SET	12/04/24
1	PLAN CHECK #1	03/07/25

Issue Note: PERMIT RESUBMITTAL 03/07/25

City Plan No.:	8286
City File No.:	402-145
Specification No.:	#25-11695-C
Project ID:	YAP
Drawn by:	DR
Checked by:	JM
Plot Date:	
Scale:	1/4" = 1'-0"

Sheet Title: FLOOR PLAN

Sheet No.: **FS-1**

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EQUIPMENT SCHEDULE

ITEM NO	QTY	EQUIPMENT CATEGORY	MANUFACTURER	MODEL NUMBER	FSEC	EXISTING	RELOCATE	OWNER	VENDOR	G.C	AMPS	KW	VOLTS	PHASE	HP	DIRECT	PLUG	ELECTRICAL AFF (IN)	NEMA	ITEM NO	COLD WATER SIZE (IN)	COLD WATER AFF (IN)	HOT WATER SIZE (IN)	HOT WATER AFF (IN)	DIRECT DRAIN SIZE (IN)	INDIR DRAIN SIZE (IN)	GAS SIZE (IN)	GAS AFF (IN)	MBTUH	EQUIPMENT REMARKS	ITEM NO
1	1	(BY OWNER) TWO-DOOR SELF CONTAINED REACH-IN REFRIGERATOR	BY OWNER	BY OWNER				X			5.4		115	1			X	18	5-15P	1												1
2	1	SINGLE DOOR SELF CONTAINED REACH-IN FREEZER ON CASTERS WITH LOCKS	TRUE MFG. - GENERAL FOODSERVICE	T-23F-HC	X						3.7		115	1			X	18	5-15P	2												2
3	1	WALL MOUNTED HAND SINK W/ 4" O.C. FAUCET	KROWNE	HS-26L	X															3	1/2"	16	1/2"	16	1-1/2"						3
3.1	1	WALL MOUNTED HAND SOAP / SANITIZER DISPENSER	KROWNE	H-116					X											3.1											3.1
3.2	1	WALL MOUNTED PAPER TOWEL DISPENSER	KROWNE	H-105					X											3.2											3.2
4	1	S/S WORK TABLE - W/ (2) S/S CABINETS - W/ S/S COUNTERTOP - APPROX: 30"W. x 126"L. - W/ TOP EXTENSION THRU WINDOW OPENING - W/ LOCKING DOORS - MOUNTED ON 6"H. LEGS	STAINLESS STEEL FABRICATOR	CUSTOM	X															4											NOTE: MOUNTED ON 6" H. S/S LEGS.	4
5	1	(BY G.C.) ROLL UP GATE. REFER TO ARCHITECTURAL DRAWINGS	BY G.C.	BY G.C.						X										5											5
6	1	SLIM JIM STYLE 23 GALLON TRASH RECEPTACLE	CARLISLE	34202303	X															6											6
7	1	S/S WORK TABLE - W/ (2) S/S CABINETS W/ LOCKING DRAWERS AS SHOWN - W/ S/S COUNTERTOP - W/ CUTOUT FOR (1) 23"L. X 23"W. SINK - APPROX: 30"W. x 125"L.	STAINLESS STEEL FABRICATOR	CUSTOM	X															7							1"				NOTE: MOUNTED ON 6" H. S/S LEGS.	7
7.1	1	8" O.C. DECK MOUNTED FAUCET	KROWNE	15-512L	X															7.1	1/2"	16	1/2"	16							7.1
8	1	HIGH PERFORMANCE BLENDER	HAMILTON	HBH550	X						13.0		120	1		X		48		8												8
9	1	(BY OWNER) COUNTERTOP PLANETARY MIXER	BY OWNER	BY OWNER				X			15.0		120	1			X	48	5-15P	9												9
10		SPARE NUMBER																		10												10
11		SPARE NUMBER																		11												11
12	1	(BY OWNER) COUNTERTOP FOOD PROCESSOR	BY OWNER	BY OWNER				X			7.0		120	1			X	48	5-15P	12												12
13	1	ELECTRIC COUNTERTOP JUICER	HAMILTON	HCJ967	X						3.0		120	1		X				13												13
14	1	14"W. X 127"L. S/S WALL MOUNTED LOCKABLE CABINETS	STAINLESS STEEL FABRICATOR	CUSTOM	X															14												14
15	1	COMMERCIAL MICROWAVE OVEN	ACP, INC.	RCS10TS	X						13.0		120	1			X	48	5-15	15												15
15.1	1	WALL MOUNTED MICROWAVE SHELF 24"W. X 21"L.	STAINLESS STEEL FABRICATOR	CUSTOM	X															15.1												15.1
16	1	CUBE-STYLE ICE MAKER	HOSHIZAKI AMERICA	KM-350MAJ	X						9.0		115	1		X		60		16	1/2"	16					3/4"				*NOTE: RECIEVES FILTERED WATER FROM ITEM #21.	16
17	1	ICE BIN FOR ICE MACHINES	HOSHIZAKI AMERICA	B-300SF	X															17							3/4"					17
18	1	WATER FILTRATION SYSTEM FOR ITEM #20	3M PURIFICATION	ICE160-S	X															18	3/8"	60									*NOTE: SENDS FILTERED WATER TO ITEM #19.	18
19	1	S/S WORK TABLE - W/ (2) S/S LOCKING DRAWERS AS SHOWN - APPROX: 30"W. x 39"L. W/ BACKSPLASH - W/ S/S COUNTERTOP - MOUNTED ON 6" LEGS	STAINLESS STEEL FABRICATOR	CUSTOM	X															19												19
20	1	14"W. X 32"L. S/S WALL MOUNTED LOCKABLE CABINETS	STAINLESS STEEL FABRICATOR	CUSTOM	X															20												20
20.1	1	8"O.C. WALL MOUNTED POT FILLER FAUCET W/ 12" JOINTED SPOUT	KROWNE	16-251L	X															20.1	1/2"	50	1/2"	50								20.1
21		SPARE NUMBER								X										21												21
22		SPARE NUMBER								X										22												22
23	1	26" ELECTRIC RANGE W/ (6) FRENCH HOTPLATES - W/ 10" S/S STUB BACK	VULCAN	EV36S-6FP208	X						54.1		208	3		X		18		23												23
24	1	36" ELECTRIC RANGE OVEN W/ 36" GRIDDLE - W/ 10" S/S STUB BACK	VULCAN	EV36S-36G208	X						49.1		208	3		X		18		24												24
25	1	S/S TYPE 1 EXHAUST HOOD	CAPTIVEAIRE	CUSTOM	X															25												25
25.1	1	SUPPLY FAN	CAPTIVEAIRE	CUSTOM																25.1												25.1
25.2	1	EXHAUST FAN	CAPTIVEAIRE	CUSTOM																25.2												25.2
25.3	1	ELECTRICAL PACKAGE	CAPTIVEAIRE	CUSTOM	X						VFY		VERIFY	1		X		VFY		25.3												25.3
25.4	1	S/S WALL FLASHING	STAINLESS STEEL FABRICATOR	CUSTOM	X															25.4												25.4
25.5	1	FIRE SUPPRESSION SYSTEM	CAPTIVEAIRE	CUSTOM	X															25.5												25.5
25.6	1	S/S CLOSURE PANEL	STAINLESS STEEL FABRICATOR	CUSTOM	X															25.6												25.6
25.7	1	DCV SMART CONTROLS	CAPTIVEAIRE	CUSTOM	X						VFY		VERIFY	1		X		VFY		25.7												25.7
26		SPARE NUMBER																		26												26
27		SPARE NUMBER																		27												27
28	1	S/S WORK TABLE - W/ (2) S/S LOCKING DRAWERS AS SHOWN - APPROX: 30"W. x 39"L. W/ BACKSPLASH - W/ S/S COUNTERTOP - MOUNTED ON 6" LEGS	STAINLESS STEEL FABRICATOR	CUSTOM	X															28												28
29	1	WALL MOUNTED HAND SINK W/ 4" O.C. FAUCET	KROWNE	HS-26L	X															29	1/2"	16	1/2"	16	1-1/2"						29
29.1	1	WALL MOUNTED HAND SOAP / SANITIZER DISPENSER	KROWNE	H-116						X										29.1												29.1
29.2	1	WALL MOUNTED PAPER TOWEL DISPENSER	KROWNE	H-105						X										29.2												29.2
30	1	16 GAUGE 304 SERIES S/S (3) COMPARTMENT SINK - APPROX: 124"L. x 30"W.- W/ (3) 23"x23" SINK TUBS & (1) 18" & (1) 30" DRAINBOARD - W/ ROLLED EDGE & S/S LEGS	STAINLESS STEEL FABRICATOR	CUSTOM	X															30							1-1/2"						30
30.1	1	8" O.C. PRE-RINSE FAUCET ASSEMBLY, WITH ADD ON FAUCET	KROWNE	17-109WL	X															30.1	1/2"	16	1/2"	16							30.1
30.2	1	8" O.C. SPLASH MOUNTED FAUCET	KROWNE	14-812L	X															30.2	1/2"	16	1/2"	16							30.2
30.3	3	LEVER TWIST DRAIN	T & S BRASS	B-3990-3X	X															30.3							2"					30.3
30.4	3	S/S SLIDE RACK AND SINK COVERS	STAINLESS STEEL FABRICATOR	CUSTOM	X															30.4												30.4
31	1	14"W. X 54"L. S/S WALL MOUNTED PERFORATED SHELVING	STAINLESS STEEL FABRICATOR	CUSTOM	X															31												31
32	1	14"W. X 41"L. S/S WALL MOUNTED PERFORATED SHELVING	STAINLESS STEEL FABRICATOR	CUSTOM	X															32												32
33	1	UNDERCOUNTER LOW-TEMP DISH MACHINE	CMA DISHMACHINES	L-1X	X						16.0		115	1		X		18		33			1/2"	16			1"					33
34		SPARE NUMBER																		34												34
35	1	SELF-CONTAINED REFRIGERATED MILK COOLER	BEVERAGE-AIR	SM49HC-S	X						2.2		115	1			X	18	5-15P	35												35
36	1	S/S ISLAND CABINETS & COUNTER - APPROX: 30"W. x 154"L. - W/ LOCKING CABINETS - MOUNTED ON 6" LEGS	STAINLESS STEEL FABRICATOR	CUSTOM	X															36												36

Project Title:

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Issue Note: PERMIT RESUBMITTAL 03/07/25

City Plan No.: 8286
City File No.: 402-145
Specification No.: #25-11695-C
Project ID: YAP
Drawn by: DR
Checked by: JM
Plot Date:
Scale:

Sheet Title: EQUIPMENT SCHEDULE

Sheet No.: **FS-1.1**

8/23/2024 2:05:37 PM

ELECTRICAL NOTES

NOTE: REFER TO FSEC LAYOUT/SCHEDULE TO CONFIRM EQUIPMENT SUPPLIED. THESE NOTES APPLY GENERICALLY TO ALL PROJECTS INCLUDING INFORMATION ON ITEMS SUCH AS EXHAUST HOODS OR WALK-IN COOLERS THAT MAY NOT BE PRESENT ON THIS PROJECT.

1. ALL ELECTRICAL CONNECTIONS SHOWN ON THE ELECTRICAL SHEET PERTAIN TO FOOD SERVICE EQUIPMENT BEING SUPPLIED BY THE FSEC. ALL WORK, FINAL CONNECTIONS AND INTERCONNECTIONS TO THE EQUIPMENT INCLUDING BUT NOT LIMITED TO; PANELS, SWITCHES, MAGNETIC STARTERS, THERMAL OVERLOAD PROTECTION, CORD AND PLUGS, CONDUIT, SEAL TIGHT FLEX CONDUIT AND WIRE SHALL BE SUPPLIED BY THE EC UNLESS OTHERWISE NOTED.

2. ALL CONDUIT IS TO BE IN THE WALLS, CEILING, OR FLOOR. EXPOSED CONDUIT IS NOT ALLOWED.

3. EC TO PROVIDE ELECTRICAL ACCESSORIES REQUIRED FROM POINT OF STUB OUT TO POINT OF FINAL CONNECTION, INCLUDING SPECIAL PURPOSE OUTLETS. ALL "J" BOX, DCO'S AND ELECTRICAL CONNECTIONS MUST BE PROTECTED FROM AMBIENT HEAT, STEAM, AND KITCHEN ABUSE WHICH MAY AFFECT THE SAFETY OF THE FOOD SERVICE STAFF.

4. OWNER/VENDOR SUPPLIED EQUIPMENT MUST BE CONFIRMED WITH OWNER PRIOR TO STARTING WORK.

5. LOCATIONS AND SPECIFICATIONS ARE SUBJECT TO CHANGE UNTIL FINAL SELECTION OF MANUFACTURERS AND MODELS ARE MADE. EC TO VERIFY WITH OWNER.

6. MANUFACTURERS SPECIFICATION SHEETS MUST BE REVIEWED AND CONFIRMED AS TO ACCURACY TO THE PLAN. TO CONFIRM W/ OWNER.

7. LIGHTING PLAN, EMERGENCY LIGHTING AND EXIT PLAN, AND TITLE 24 ENERGY REQUIREMENTS TO BE SUPPLIED BY ARCHITECT AND INSTALLED BY EC.

8. STAINLESS STEEL OUTLET COVER PLATES ARE TO BE UTILIZED IN THE FOOD SERVICE AREAS. IN OTHER AREAS, REFER TO ARCHITECT/DESIGNER PLANS.

9. EXHAUST SYSTEM AND MAKE UP AIR SYSTEM SHALL BE INTERLOCKED. VERIFY WITH LOCAL CODE.

10. HOOD LIGHTING TO BE INTER WIRED BY EC. LAMPS BY EC.

11. FIRE SYSTEM WILL NEED MICRO SWITCHES AT TANK LOCATION OR SHUNT SWITCHES AT BREAKER FOR ANY DCO/J BOX UNDER ANY HOOD, BY EC. VERIFY WITH FIRE SYSTEM INSTALLER AND LOCAL CODE.

12. REFRIGERATION CONDENSER AND COMPRESSOR SHALL BE WIRED PER MANUFACTURER'S INSTRUCTIONS, INCLUDED ARE; INTER WIRE LIGHTS AND SWITCHES (LAMPS BY EC), DOOR HEATERS, TIME CLOCKS, DRAIN LINE HEATERS, SOLENOID VALVES, DEFROST RELAYS, AND ANY ADDITIONAL MATERIALS TO COMPLETE AN OPERABLE SYSTEM. DISCONNECT SWITCHES FOR EACH COMPRESSOR ARE REQUIRED.

13. ICE MACHINE TO BE WIRED TO REMOTE LOCATION, IF APPLICABLE. SEE PLAN.

14. HOT WATER SYSTEM MAY HAVE ELECTRICAL REQUIREMENTS, CONFIRM WITH PLUMBING CONTRACTOR.

15. DIMENSIONS SHOWN AS +16 DENOTES 16" OFF FINISHED FLOOR. DIMENSIONS ON PLAN ARE FROM FINISHED WALL TO POINT OF CONNECTION, OR FROM POINT OF CONNECTION TO POINT OF CONNECTION. STUB AT FLOOR DENOTES UTILITY TO TERMINATE AT 4" HEIGHT UNLESS OTHERWISE NOTED.

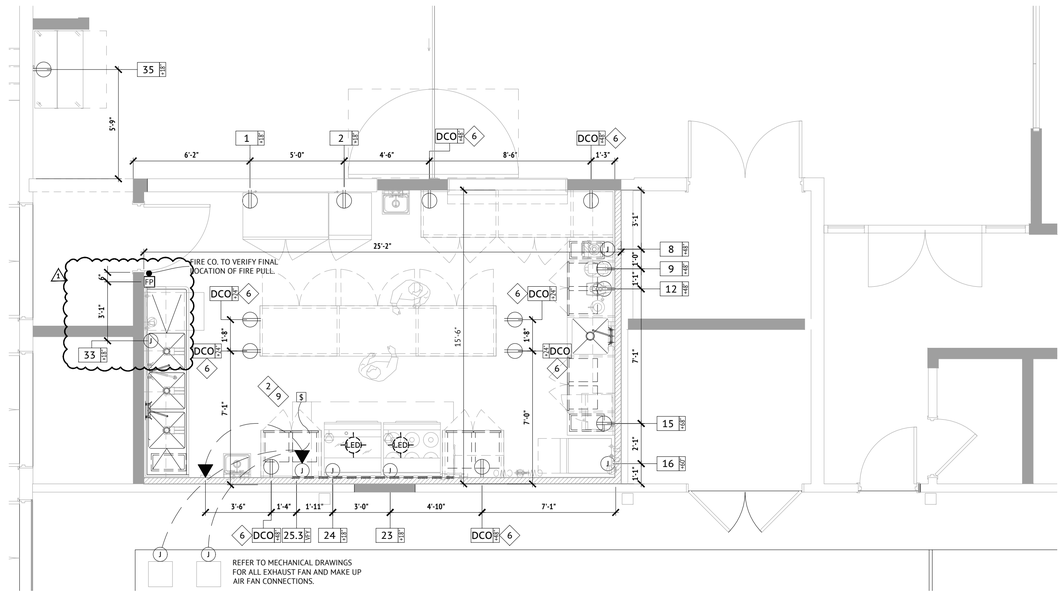
16. NEW SERVICE LOAD SHALL BE ANALYZED BY ELECTRICIAN/ENGINEER AND REVIEWED WITH LOCAL UTILITY COMPANY FOR ANY FUTURE OR IMMEDIATE NEEDS. EC SHALL ORDER AND EXPEDITE ANY UPGRADED EQUIPMENT NEEDED AND KEEP FSEC INFORMED ON INSTALLATION TIMING.

17. SYSTEM DRAWINGS OR DIAGRAMS, IF REQUIRED, WILL BE PROVIDED BY EC. IF NONE EXIST AT TIME OF BID CONFIRM IN WRITING.

18. CHECK ARCHITECTS PLAN FOR AUXILIARY EQUIPMENT AND SYSTEMS; P.O.S., SOUND SYSTEMS, TELEVISION, LIVE MUSIC SYSTEM (AND LIGHTING), REASTATS FOR MOOD LIGHTING, VACUUM OUTLETS IN DINING ROOM, ETC. KITCHEN DESIGNER HAS MADE EVERY EFFORT TO SHOW THE SYSTEMS APPLICABLE TO FOOD SERVICE. THE OWNER MAY OPT TO ADD UTILITY OUTLETS AS NEEDED.

NOTE: CLIENT TO REVIEW WITH ARCHITECT FOR THE FINAL LOCATION OF ALL POS, PRINTERS, TELEVISIONS, TELEPHONES, AUDIO/VIDEO EQUIPMENT, SECURITY, LIGHTING SWITCHES, OFFICE EQUIPMENT, COMPUTER LINE RUNS, TIME CARDS AND TIME CLOCKS. THESE COMPONENTS ARE TO BE REFLECTED ON ELECTRICIAN'S PLANS GENERATED BY ELECTRICAL ENGINEER.

NOTE: DIMENSIONS ON UTILITY PAGES ARE PROVIDED FROM FINISHED WALLS AS ALL CONSTRUCTION IS COMPLETE. TRADES TO SITE VERIFY EXISTING UTILITIES & REUSE EXISTING CONNECTIONS WHEREVER POSSIBLE.



ELECTRICAL ROUGH-IN PLAN

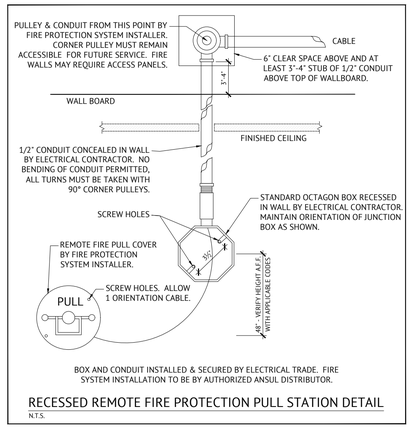
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ELECTRICAL PROJECT NOTES

1. TRADES TO CONFIRM UTILITY REQUIREMENTS FOR ALL OWNER/VENDOR/EXISTING EQUIPMENT PRIOR TO ROUGH-IN.
2. CODE REQUIRES THAT WHEN THE FIRE SUPPRESSION SYSTEM IS ACTIVATED, ALL EQUIPMENT BELOW HOOD SHUT-OFF, INCLUDING ALL GAS AND ELECTRIC APPLIANCES AND THE MAKE-UP AIR SYSTEM. THE EXHAUST FAN MUST CONTINUE RUNNING. GAS VALVE 2" OR SMALLER PROVIDED WITH THE FIRE SUPPRESSION SYSTEM. E.C. TO WIRE OUTLETS TO MICRO SWITCHES AT SUPPRESSION SYSTEM TANK CONTROLS OR PROVIDE SHUNT SWITCHES.
3. G.C. TO ENSURE ALL PENETRATIONS OF WALK-IN BOXES ARE SEALED. ROOF PENETRATIONS TO BE APPROVED BY BUILDING OWNER FOR WARRANTY ISSUES.
4. E.C. TO WIRE FREEZER EVAPORATOR FAN DRAIN LINE, DOOR HEATER & RUN CONTROL WIRES FOR ELECTRIC DEFROST TIMER. P.C. TO WRAP FREEZER COMPARTMENT EVAPORATOR FAN DRAIN WITH HEAT TAPE.
5. DIMENSIONS FOR ABOVE GROUND ROUGH-IN'S FOR ELECTRICAL & PLUMBING ARE TAKEN FROM CENTER OF KNOWN FEATURES, SUCH AS EXISTING COLUMNS OR FROM INSIDE OF FINISHED WALLS, U.N.O. UNDERGROUND DIMENSIONS MAY BE TAKEN FROM CENTERLINE OF EXTERIOR WALLS IF CONSTRUCTION ON WALLS IS NOT EXPECTED TO BE COMPLETED AT THE TIME OF FLOOR SINK ROUGH-IN. TRADES ARE RESPONSIBLE FOR NOTIFYING FSEC OF DISCREPANCIES IN DIMENSIONS AS SOON AS THEY ARE DISCOVERED.
6. ALL CONVENIENCE OUTLETS, DUPLEX (DCO) AND QUADPLEX (QCO), ARE SHOWN AS A GUIDELINE FOR PLACEMENT OF ADDITIONAL INCIDENTAL OUTLETS FOR OWNER'S CURRENT OR FUTURE USE. E.C. TO VERIFY LOCATIONS AND VOLTAGES WITH OWNER BEFORE INSTALLING DCO OUTLETS. DCO OUTLETS ARE SHOWN FOR FSEC SPECIFIED AREAS ONLY. E.C. IS RESPONSIBLE TO ENSURE THAT ALL OUTLET TYPES/LOCATIONS/QUANITY/SPACING COMPLY WITH CURRENT CODE REQUIREMENTS. ALL DCO'S ARE ASSUMED TO BE 120 VOLT/1 PHASE/15 AMP CIRCUITS UNLESS NOTED OTHERWISE.
7. ELECTRICAL CONTRACTOR TO PROVIDE AND INSTALL INTERCONNECTION WIRING BETWEEN WALK-IN FREEZER EVAPORATOR FAN AND REMOTE CONDENSER FOR WALK-IN FREEZER. POWER FOR EVAPORATOR FAN IS PROVIDED FROM THE REMOTE FREEZER CONDENSER.
8. WALL SWITCH FOR EXHAUST HOOD FAN AND MAKE-UP AIR FAN.
9. EMS - HOOD ENERGY MANAGEMENT SYSTEM CONTROL PANEL.
10. EXISTING EQUIPMENT TO REMAIN. G.C./E.C. TO VERIFY UTILITIES HAVE PROPER CONNECTIONS, ARE NOT DAMAGED, AND ARE IN GOOD WORKING ORDER. G.C./E.C. TO REPAIR AND REPLACE AS NEEDED.

ELECTRICAL LEGEND

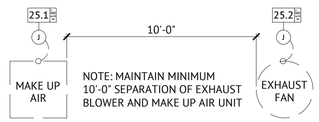
	SIMPLEX OUTLET	DCO	DUPLEX CONVENIENCE OUTLET
	DUPLEX OUTLET	Q/D	QUAD/DATA CONVENIENCE OUTLET
	QUAD OUTLET		STUB OUTLET (SIMPLEX) FROM FLOOR
J	JUNCTION BOX (ON WALL)		STUB OUTLET (DUPLEX) FROM FLOOR
J CLNG	JUNCTION BOX (CEILING MOUNTED)		STUB OUTLET (QUAD) FROM FLOOR
J	JUNCTION BOX (MOTOR)	J	JUNCTION BOX STUB FROM FLOOR & BRANCH TO OUTLETS (B.T.O.)
	TELEPHONE/DATA CABLE		STUB OUTLET (SPECIAL CONDITIONS) FROM FLOOR
LED	LED LIGHT FIXTURE		STUB OUTLET (DATA) FROM FLOOR
V	VAPOR PROOF LIGHT FIXTURE		INCANDESCENT LIGHT FIXTURE
D CLNG	CLG MT'D DROP DOWN OUTLET		ROTATE OUTLET 90°
WP	WATERPROOF		CONNECTION POINT (ON FIXTURE) WIRING BY E.C.
FP	FIRE PULL STATION	T/C SOL	SOLENOID & TEMP. CONTROLS
	FIRE SYSTEM MICROSWITCH	S	SWITCH
	FAN	T	TIME CLOCK
EMS	HOOD - ENERGY MANAGEMENT SYSTEM CONTROL PANEL	M	MICROSWITCH SHUT OFF



BOX AND CONDUIT INSTALLED & SECURED BY ELECTRICAL TRADE. FIRE SYSTEM INSTALLATION TO BE BY AUTHORIZED ANSUL DISTRIBUTOR.

RECESSED REMOTE FIRE PROTECTION PULL STATION DETAIL

N.T.S.



NOTE: MAINTAIN MINIMUM 10'-0" SEPARATION OF EXHAUST BLOWER AND MAKE UP AIR UNIT

REMOTE EQUIPMENT

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

Project Title:

CITY OF BERKELEY
PARKS, RECREATION & WATERFRONT DEPARTMENT
MLK JR. YOUTH SERVICES CENTER / YAP
SEISMIC RETROFIT AND RENOVATION
1730 Oregon Street, Berkeley, CA 94703
APN#: 053-1676-001-02

Design Firm:
SIEGEL & STRAIN Architects
6201 Doyle Street, Suite B
Emeryville, CA 94608
TEL 510 / 547-8092
info@siegelstrain.com

Consultant:

Stamp:

	PERMIT SET	12/04/24
1	PLAN CHECK #1	03/07/25

Issue Note: PERMIT RESUBMITTAL 03/07/25

City Plan No.:	8286
City File No.:	402-145
Specification No.:	#25-11695-C
Project ID:	YAP
Drawn by:	DR
Checked by:	JM
Plot Date:	
Scale:	1/4" = 1'-0"

Sheet Title: ELECTRICAL ROUGH-IN PLAN

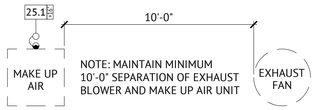
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PLUMBING NOTES

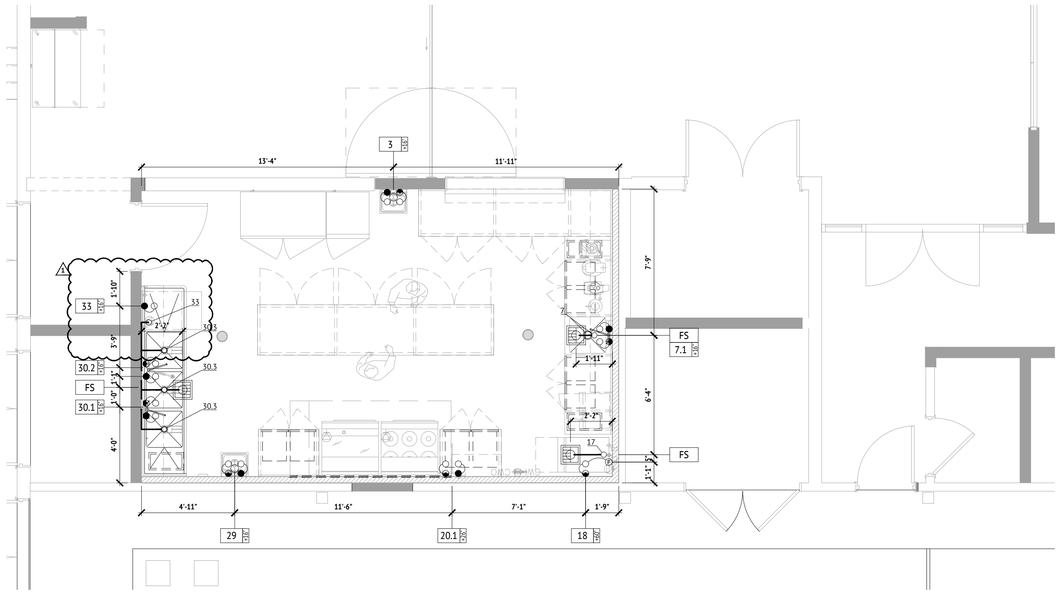
NOTE: REFER TO FSEC LAYOUT/SCHEDULE FOR SPECIFIC EQUIPMENT TO BE SUPPLIED ON THIS PROJECT. THESE NOTES APPLY GENERICALLY TO ALL PROJECTS AND INCLUDE INFORMATION, SUCH AS EXHAUST SYSTEMS AND WALK-IN COOLER, WHICH MAY NOT BE SUPPLIED ON THIS PROJECT.

1. ALL ROUGH-IN CONNECTIONS SHOWN ON THE PLUMBING SHEET PERTAIN ONLY TO THE EQUIPMENT BEING SUPPLIED BY THE FSEC. MISC. FAUCETS, SHUT OFF VALVES, MIXING VALVES, PRESSURE REGULATORS, GREASE TRAPS, WATER HEATER, PRESSURE REDUCING VALVES, TAIL PIECES AND INDIRECT/DIRECT WASTE AND VENT LINES ARE INCLUDED IN THE SCOPE OF WORK UNLESS OTHERWISE NOTED ON PLAN OR PURCHASING CONTRACT.
2. OWNER/VENDOR SUPPLIED EQUIPMENT MUST BE CONFIRMED WITH OWNER PRIOR TO STARTING WORK.
3. PLUMBING CONTRACTOR (PC) SHALL BE RESPONSIBLE FOR ALL ROUGH-IN, INTERCONNECTIONS AND FINAL CONNECTIONS TO THE FOOD SERVICE EQUIPMENT AND OTHER SYSTEMS AS NOTED ON THE ARCH./ENG. PLANS.
4. SHUT OFF VALVES SHALL BE ACCESSIBLE.
5. BACK-FLOW PREVENTION DEVICE SHALL BE SUPPLIED AT ALL FAUCETS WHERE A THREADED SPOUT IS PROVIDED.
6. MANUFACTURER'S SHEETS SHALL BE REVIEWED AND VERIFIED TO THE PLAN. ANY DISCREPANCIES SHALL BE BROUGHT TO DESIGNERS ATTENTION PRIOR TO BEGINNING WORK.
7. SODA SYSTEM CONDUIT CHASE, IF NEEDED, SHALL INCORPORATE LONG DIAMETER SWEEPS AT 90° JOINTS AND CONSIST OF MATERIALS MEETING CODE COMPLIANCE FOR METHOD AND LOCATION OF INSTALLATION.
8. HOT WATER PIPING SHALL BE INSULATED.
9. DRAIN LINES FROM ICE BINS, ICE SINKS, REMOTE REFRIGERATORS, FREEZERS, AND WALK-IN REFRIG/FREEZERS SHALL BE INSULATED AND RUN TO NEAREST FLOOR SINK. DRAIN LINES AT RISK OF FREEZING ARE TO BE WRAPPED WITH HEAT TAPE BY E.C.
10. SOFTENED WATER SHALL BE SUPPLIED TO DISH MACHINES, GLASS WASHERS, STEAMERS AND ICE MACHINES. SOFTEN TO A MIN. OF 17-51 PPM (0-3 GRAINS PER GALLON) VERIFY WITH ARCHITECT/OWNER.
11. GREASE TRAP/INTERCEPTOR WILL BE SIZED BY MECH. ENGINEER, LOCATED BY ARCHITECT, AND SUPPLIED BY PC.
12. WATER HEATER WILL BE SIZED BY MECH. ENGINEER, LOCATED BY ARCHITECT AND PROVIDED BY PC. THE CAPACITY, BTU RATING AND RISE OF WATER TEMPERATURE WILL BE PROVIDED TO THE HEALTH PLAN CHECKER.
13. FLOOR SINK INSTALLATION MUST BE VERIFIED WITH LOCAL PLAN CHECK FOR HEIGHT (FLUSH WITH FINISH FLOOR OR 1" ABOVE FF). LOCATED AS TO BE EASILY ACCESSIBLE FOR CLEANING.
14. EXHAUST SYSTEM MAKEUP AIR UNIT WILL BE PROVIDED WITH WATER AND DRAIN LINE (IF ON ROOF DRAIN LINE GOES TO RAIN GUTTER), UNLESS NOTED OTHERWISE.
15. PENETRATIONS AND PIPES SHALL BE FITTED WITH ESCUTCHEON COVERS, RINGS, ETC. ALL GAPS, HOLES AND SEAMS WILL BE SEALED AND CAULKED PROPERLY PER HEALTH CODE REQUIREMENTS.
16. MOBILE COOKING EQUIPMENT WILL BE PROVIDED WITH QUICK DISCONNECT HOSES (AGA APPROVED) BY FSEC AND INSTALLED BY PC.
17. GAS SHUT OFF VALVE WILL BE PROVIDED BY FIRE SUPPRESSION SYSTEM INSTALLER, LOCATION TO BE VERIFIED FOR EASE OF RESETTING, INSTALLED BY PC.
18. GAS LINES MUST BE BLED OR AIR AND PILOT LIGHTS LIGHTED PRIOR TO FIRE SUPPRESSION TEST AND AFTER.
19. SYSTEM DRAWINGS OF DIAGRAMS, IF REQUIRED, WILL BE PROVIDED BY PC. IF NONE EXIST AT TIME OF BID, CONFIRM IN WRITING WITH G.C.
20. WHEN A LOW TEMPERATURE DISH MACHINE WITHOUT A BOOSTER HEATER IS SPECIFIED, A DEDICATED HOT WATER LINE CARRYING 167° WATER TO THE DISH MACHINE IS REQUIRED. ADDITIONALLY, ALL HAND SINKS MUST HAVE A MIXING VALVE. MIXING VALVE TO BE SUPPLIED BY THE P.C.
21. POTABLE WATER SUPPLY TO CARBONATORS SHALL BE PROTECTED BY EITHER AN AIRGAP OR A VENTED BACKFLOW PREVENTOR FOR CARBONATED BEVERAGE DISPENSERS INSTALLED WITHIN THE CARBONATED BEVERAGE DISPENSER.
22. HAND SINKS TO HAVE TEMPERED WATER AT 110°.
23. DISHWASHING MACHINES THAT USE WATER SUPPLY PRESSURE FOR THE FINAL RINSE SHALL BE SUPPLIED BY A HOT WATER LINE WITH ADEQUATE FLOW PRESSURE (15 TO 25 PSI) AND A PERMANENT PRESSURE GAUGE INSTALLED IMMEDIATELY ADJACENT TO THE SUPPLY SIDE OF THE FINAL RINSE SOLENOID VALVE; IN MOST CASES A PRESSURE REGULATOR IS NEEDED. REGULATORS & WATER HAMMER ARRESTORS SUPPLIED BY P.C., UNLESS NOTED OTHERWISE.
24. SODA COMPRESSORS AND CARBONATORS ARE TO BE SUPPORTED OFF THE FLOOR ON 6" CLEANABLE LEGS.
25. ALL SELF-SERVICE BEVERAGE DISPENSERS MUST HAVE PUSH BUTTON OR EXTENDED LEVER DISPENSING SYSTEM.
26. IF A FLOOR SINK IS ELEVATED (NOT FLUSH W/FLOOR) IT MUST HAVE AN APPROVED INTEGRAL, CONTINUOUS COVED BASE WITH AT LEAST $\frac{1}{2}$" RADIUS COVING AT THE FLOOR/FLOOR SINK JUNCTURE AND THE FLOOR SURFACE SHALL EXTEND UP THE SIDES OF THE FLOOR SINK UP TO 4" (DEPENDING ON HOW HIGH THE FLOOR SINK IS ELEVATED).
27. CONDENSATE DRAIN LINES FROM COOLER/FREEZER BOXES TO HAVE P-TRAP IN DRAIN LINE BEFORE AIR GAP.
28. WHEN POT SINKS, PRE-RINSE SINKS OR DISH WASHERS ARE REQUIRED TO HAVE A DIRECT WASTE CONNECTION BY LOCAL BUILDING DEPARTMENT, P.C. TO ENSURE THAT A FLOOR SINK, THROUGH OR DRAIN IS LOCATED DOWN STREAM.



NOTE: CLIENT TO REVIEW WITH ARCHITECT FOR THE FINAL LOCATION OF ALL POS, PRINTERS, TELEVISIONS, TELEPHONES, AUDIO/VIDEO EQUIPMENT, SECURITY, LIGHTING SWITCHES, OFFICE EQUIPMENT, COMPUTER LINE RUNS, TIME CARDS AND TIME CLOCKS. THESE COMPONENTS ARE TO BE REFLECTED ON ELECTRICIAN'S PLANS GENERATED BY ELECTRICAL ENGINEER.

NOTE: DIMENSIONS ON UTILITY PAGES ARE PROVIDED FROM FINISHED WALLS AS ALL CONSTRUCTION IS COMPLETE. TRADES TO SITE VERIFY EXISTING UTILITIES & REUSE EXISTING CONNECTIONS WHEREVER POSSIBLE.

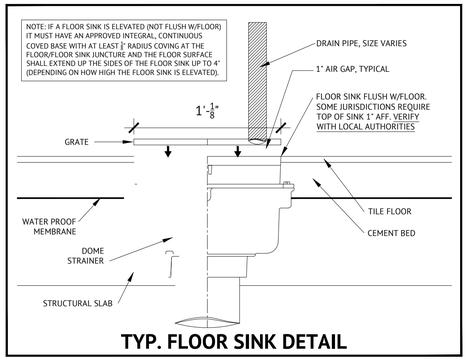


PLUMBING ROUGH-IN PLAN

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

REMOTE EQUIPMENT

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



TYP. FLOOR SINK DETAIL

PLUMBING LEGEND

REFRIGERATION ROUGH-IN CONNECTION	WASTE (DIRECT CONNECTED)
HALF SIZED FLOOR SINK	DRAIN (INDIRECT CONNECTION TO FLOOR SINK BY OTHERS)
FLOOR SINK W/ HALF GRATE - ROUND	DRAINING LINE
FLOOR SINK W/ HALF GRATE - 12X12	FLOOR DRAIN TROUGH WITH GRATING
HOT & COLD WATER W/DIRECT DRAIN	FLOOR DRAIN TROUGH WITH GRATING
HOT & COLD WATER SUPPLY	HOSE BIBB (HB)
COLD WATER SUPPLY	GREASE TRAP (FLUSH WITH FLOOR)
HOT WATER SUPPLY	EXHAUST DUCT CONNECTION
FILTERED WATER FROM OTHER LOCATION	EXHAUST DUCT CONNECTION
GAS CONNECTION	AIR SUPPLY DUCT CONNECTION
GAS CONNECTION WITH QUICK DISCONNECT	CONDENSER WATER SUPPLY & RETURN
FLOOR DRAIN (FD)	SLEEVE FOR REFRIGERATION/SODA LINES
WATER STUB	

PLUMBING PROJECT NOTES

1. TRADES TO CONFIRM UTILITY REQUIREMENTS FOR ALL OWNER/VENDOR/EXISTING EQUIPMENT PRIOR TO ROUGH-IN.
2. CODE REQUIRES THAT WHEN THE FIRE SUPPRESSION SYSTEM IS ACTIVATED, ALL EQUIPMENT BELOW HOOD SHUT-OFF, INCLUDING ALL GAS AND ELECTRIC APPLIANCES AND THE MAKE-UP AIR SYSTEM. THE EXHAUST FAN MUST CONTINUE RUNNING. GAS VALVE 2" OR SMALLER PROVIDED WITH THE FIRE SUPPRESSION SYSTEM. E.C. TO WIRE OUTLETS TO MICRO SWITCHES AT SUPPRESSION SYSTEM TANK CONTROLS OR PROVIDE SHUNT SWITCHES.
3. G.C. TO ENSURE ALL PENETRATIONS OF WALK-IN BOXES ARE SEALED. ROOF PENETRATIONS TO BE APPROVED BY BUILDING OWNER FOR WARRANTY ISSUES.
4. E.C. TO WIRE FREEZER EVAPORATOR FAN DRAIN LINE, DOOR HEATER & RUN CONTROL WIRES FOR ELECTRIC DEFROST TIMER. P.C. TO WRAP FREEZER COMPARTMENT EVAPORATOR FAN DRAIN WITH HEAT TAPE.
5. DIMENSIONS FOR ABOVE GROUND ROUGH-IN'S FOR ELECTRICAL & PLUMBING ARE TAKEN FROM CENTER OF KNOWN FEATURES SUCH AS EXISTING COLUMNS OR FROM INSIDE OF FINISHED WALLS, U.N.O. UNDERGROUND DIMENSIONS MAY BE TAKEN FROM CENTERLINE OF EXTERIOR WALLS IF CONSTRUCTION ON WALLS IS NOT EXPECTED TO BE COMPLETED AT THE TIME OF FLOOR SINK ROUGH-IN. TRADES ARE RESPONSIBLE FOR NOTIFYING FSEC OF DISCREPANCIES IN DIMENSIONS AS SOON AS THEY ARE DISCOVERED.
6. FS INDICATES LOCATIONS FOR FLOOR SINKS. (E) FS INDICATES EXISTING FLOOR SINKS TO REMAIN AND BE RE-USED . ANY NEW FLOOR SINKS ARE PROVIDED & INSTALLED BY THE P.C. PER LOCAL CODE REQUIREMENTS. P.C. TO VERIFY WHETHER FLOOR SINKS ARE TO BE INSTALLED FLUSH, RAISED 1" OR RAISED.
7. POTABLE WATER SUPPLY TO CARBONATORS TO BE PROTECTED BY EITHER AN AIRGAP OR VENTED BACKFLOW PREVENTOR FOR CARBONATED BEVERAGE DISPENSERS. THESE ARE TO BE INSTALLED WITHIN THE CARBONATED BEVERAGE DISPENSER. COMPRESSORS & CARBONATORS ARE TO BE SUPPORTED OFF THE FLOOR ON 6" CLEANABLE LEGS. ALL SELF-SERVICE BEVERAGE DISPENSERS MUST HAVE PUSH BUTTON OR EXTENDED LEVER DISPENSING SYSTEMS.
8. PLUMBING CONTRACTOR TO VERIFY INDIRECT DRAIN CONNECTION FOR FLUSH-OUT VALVE ON ALL WATER FILTERS.
9. CLEAN OUT DRAINAGE FOR EQUIPMENT IS OPTIONAL. G.C. TO VERIFY USAGE OF DRAIN PRIOR TO RUNNING DRAIN LINES.
10. EXISTING EQUIPMENT AND UTILITIES TO REMAIN. G.C./P.C. TO ENSURE ALL EQUIPMENT CONNECTIONS ARE PROPERLY FUNCTIONING AND IN GOOD CONDITION; REPAIR/REPLACE AS NEEDED.
11. HEAT TAPE FOR WALK-IN FREEZER EVAPORATOR FAN DRAIN LINE BY ELECTRICAL CONTRACTOR. (120V / 1PH / 10 AMPS)

F. WATER CONNECTION FROM FILTER.

Project Title:

CITY OF BERKELEY
PARKS, RECREATION & WATERFRONT DEPARTMENT
MLK JR. YOUTH SERVICES CENTER / YAP
SEISMIC RETROFIT AND RENOVATION
1730 Oregon Street, Berkeley, CA 94703
APN#: 053-1676-001-02

Design Firm:
SIEGEL & STRAIN Architects
6201 Doyle Street, Suite B
Emeryville, CA 94608
TEL 510 / 547-8092
info@siegelstrain.com

Consultant:

Stamp:

	PERMIT SET	12/04/24
1	PLAN CHECK #1	03/07/25

Issue Note: PERMIT RESUBMITTAL 03/07/25

City Plan No.:	8286
City File No.:	402-145
Specification No.:	#25-11695-C
Project ID:	YAP
Drawn by:	DR
Checked by:	JM
Plot Date:	
Scale:	1/4" = 1'-0"

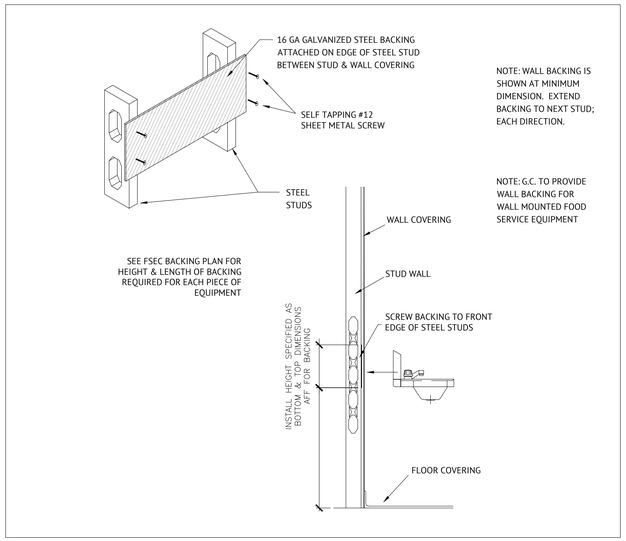
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PLUMBING ROUGH-IN PLAN

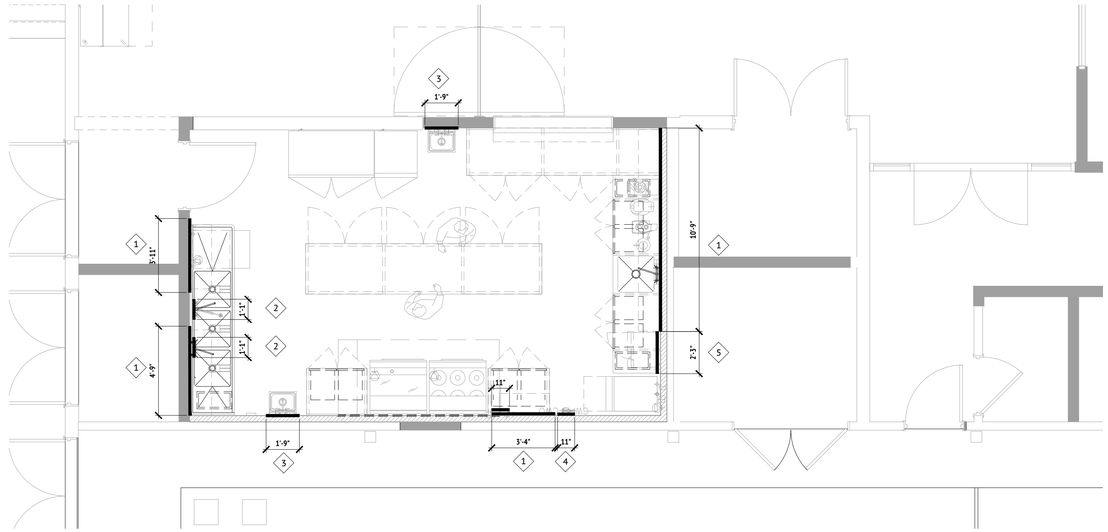
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NOTE: CLIENT TO REVIEW WITH ARCHITECT FOR THE FINAL LOCATION OF ALL POS, PRINTERS, TELEVISIONS, TELEPHONES, AUDIO/VIDEO EQUIPMENT, SECURITY, LIGHTING SWITCHES, OFFICE EQUIPMENT, COMPUTER LINE RUNS, TIME CARDS AND TIME CLOCKS. THESE COMPONENTS ARE TO BE REFLECTED ON ELECTRICIAN'S PLANS GENERATED BY ELECTRICAL ENGINEER.

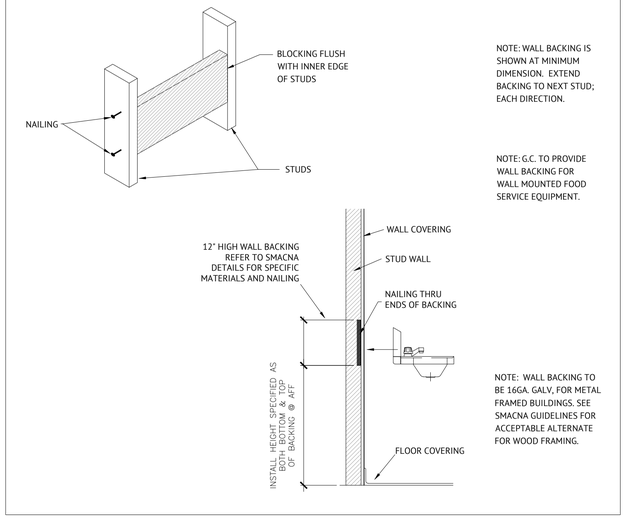
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BACKING PLAN

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



BACKING NOTES

1. BACKING FOR S/S WALL SHELF - 48"-78"
2. BACKING FOR PRE-RINSE FAUCET FROM 52"-60"
3. BACKING FOR HAND SINK - 27"-60"
4. BACKING FOR WATER FILTER - 21"-33"
5. BACKING FOR MICROWAVE SHELF 48"-65"
6. BACKING FOR UTILITY FAUCET 33"-55"

Project Title:

CITY OF BERKELEY
PARKS, RECREATION & WATERFRONT DEPARTMENT

MLK JR. YOUTH SERVICES CENTER / YAP
SEISMIC RETROFIT AND RENOVATION

1730 Oregon Street, Berkeley, CA 94703
APN#: 053-1676-001-02

Design Firm:

SIEGEL & STRAIN Architects
6201 Doyle Street, Suite B
Emeryville, CA 94608
TEL 510 / 547-8092
info@siegelstrain.com

Consultant:

Stamp:

	PERMIT SET	12/04/24
1	PLAN CHECK #1	03/07/25

Issue Note: PERMIT RESUBMITTAL 03/07/25

City Plan No.:	8286
City File No.:	402-145
Specification No.:	#25-11695-C
Project ID:	YAP
Drawn by:	DR
Checked by:	JM
Plot Date:	
Scale:	1/4" = 1'-0"

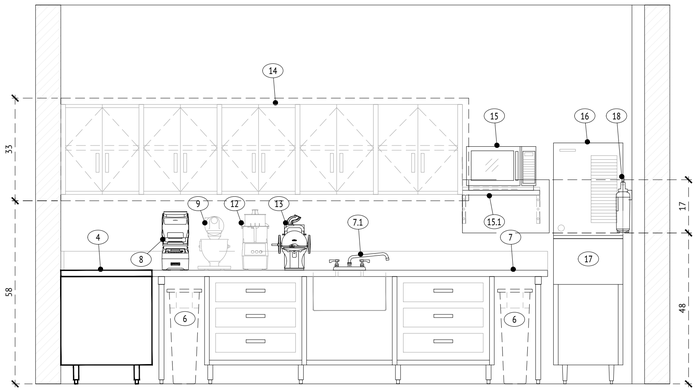
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BACKING / SPECIAL CONDITIONS

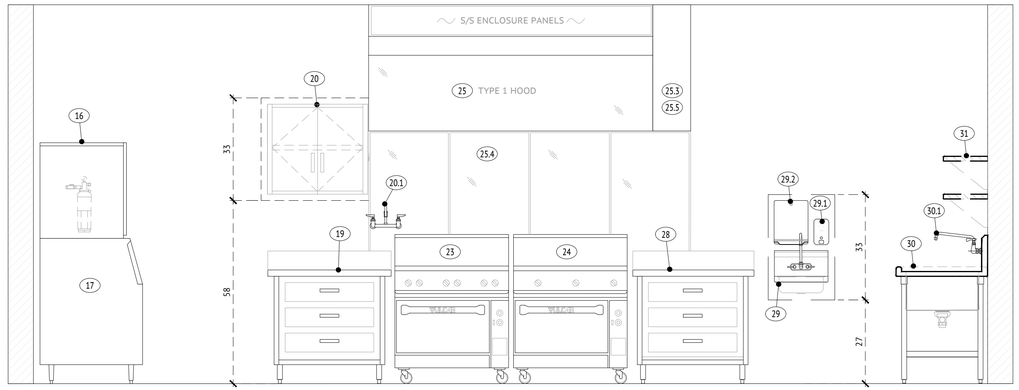
Sheet No.:

FS-4

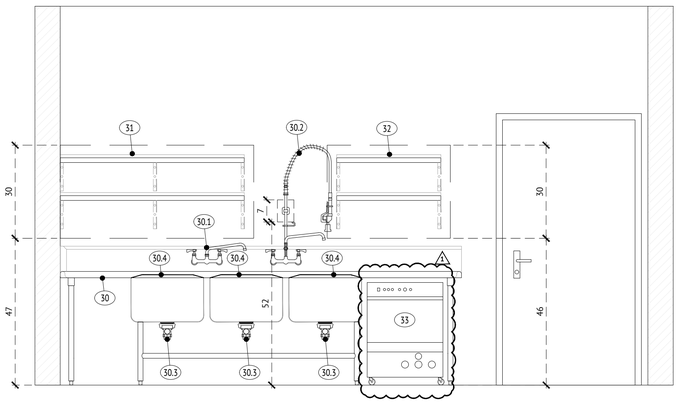
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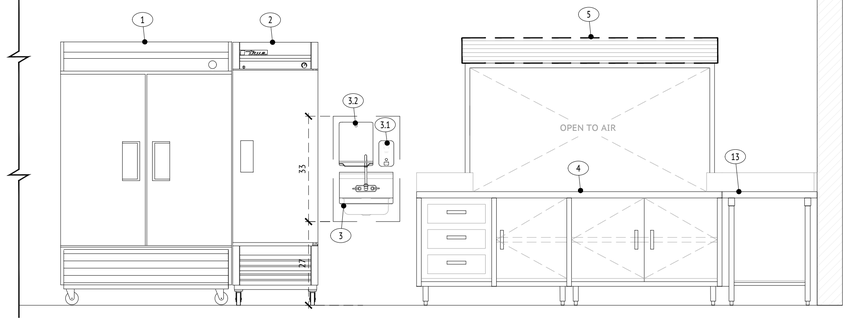
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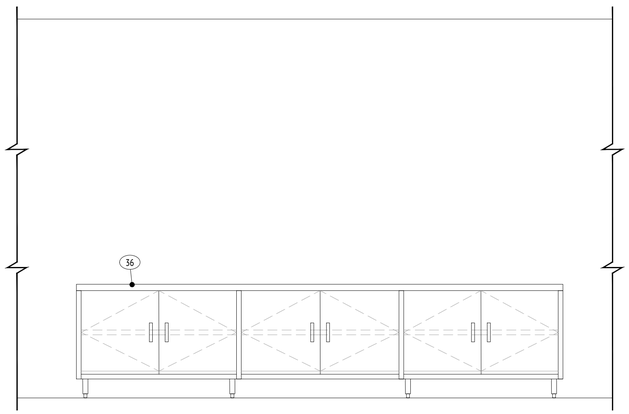
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SCALE: 1/2" = 1'-0"



3 ELEVATION
SCALE: 1/2" = 1'-0"



4 ELEVATION
SCALE: 1/2" = 1'-0"



5 ELEVATION
SCALE: 1/2" = 1'-0"

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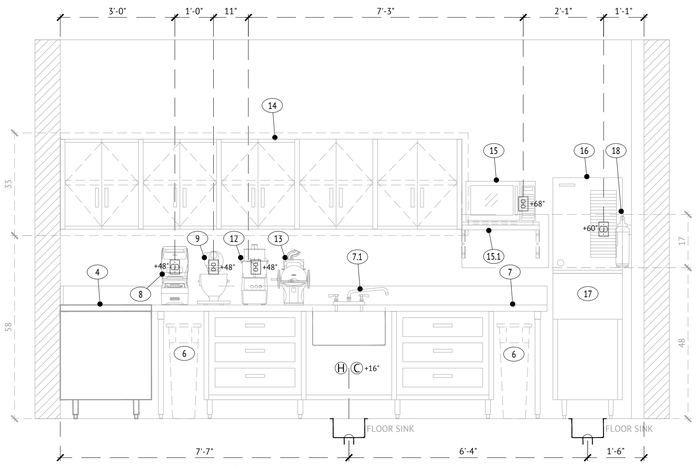
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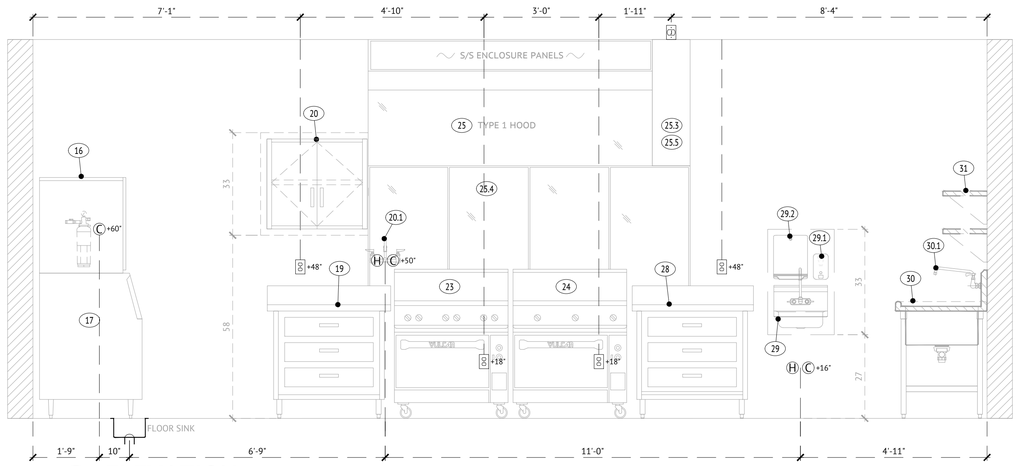
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Sheet No.: **FS-5**

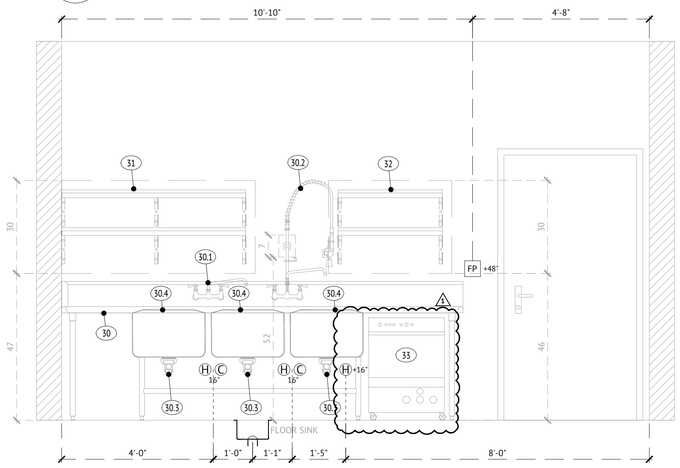
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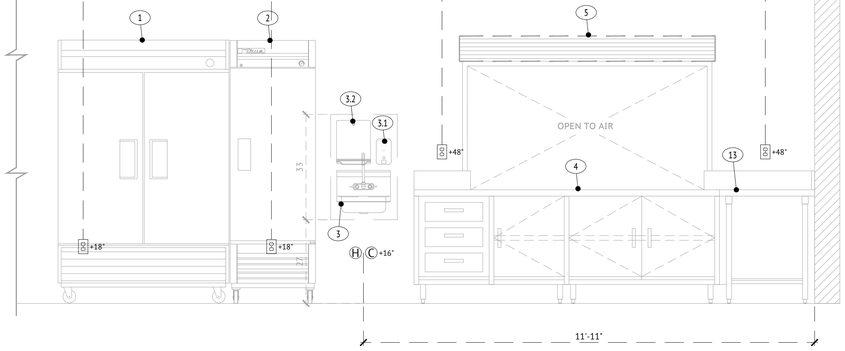
1 ELEVATION
SCALE: 1/2" = 1'-0"



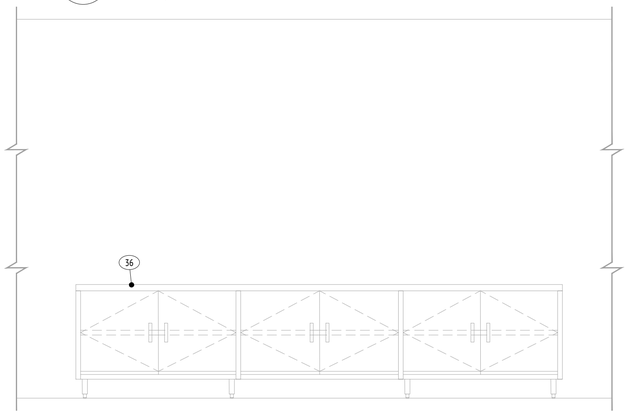
2 ELEVATION
SCALE: 1/2" = 1'-0"



3 ELEVATION
SCALE: 1/2" = 1'-0"



4 ELEVATION
SCALE: 1/2" = 1'-0"



5 ELEVATION
SCALE: 1/2" = 1'-0"

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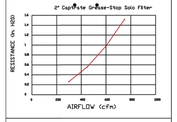
Sheet No.: **FS-5.1**

8/23/2024 2:05:37 PM



Captrate
Grease-Stop Solo Filter

RESISTANCE VS. AIRFLOW
2" Captrate Grease-Stop Solo Filter



Filter Detail

CAPTRATE®

EXHAUST CFM=LENGTH OF HOOD X CFM/LN.FT. (LOAD)

SUPPLY CFM=EXHAUST CFM X PERCENTAGE REQUIRED

TOTAL DUCT AREA=144 X $\frac{\text{CFM}}{\text{FPM(*)}}$

DUCT LENGTH= $\frac{\text{TOTAL DUCT AREA}}{\text{DUCT DEPTH}}$

GREASE-STOP SOLO FILTER IS ETL LISTED UNDER FILE NUMBER 3004494-001 AND COMPLIES WITH UL846 STANDARD, NSF STANDARD 62, NFPA 96 AND IMC

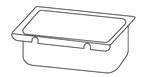
*CAPTIVE-AIRE VENTILATOR DUCT SIZES ARE CALCULATED USING AN EXHAUST VELOCITY OF 1400-1800 FPM AND A SUPPLY VELOCITY OF 1200 FPM PLEASE CONSULT FACTORY FOR MAXIMUM ALLOWABLE DUCT SIZES

CALCULATIONS UTILIZED

CAPTIVE-AIRE HOODS ARE BUILT IN COMPLIANCE WITH

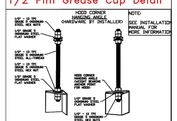
- NFPA #96
- B.O.C.A. #93-16
- U.B.C. 34-41
- SBCCI PST & ESI NO. 93137
- E.T.L. LISTED 3004804-001
- LOS ANGELES RR#25092
- ETL IS LISTED TO UL2 STANDARDS

BUILDING CODES



GREASE CUP WILL BE SUPPORTED BY TWO STUDS ON THE INSIDE WALL OF THE HOOD. THE GREASE WILL DRAIN THROUGH A CONCEALED GREASE NIPPLE AND INTO THIS REMOVEABLE/CLEANABLE CUP.

1/2 Pint Grease Cup Detail



ND-2 HANGING ANGLE DETAIL

HANGING ANGLES WILL BE LOCATED IN THE FOLLOWING LOCATIONS FOR WALL CANOPIES

HOOD STYLE		DIM FROM REAR	DIM FROM FRONT 24" High Hood?	DIM FROM FRONT 30" High Hood?
Wall	Exhaust Only	4.166"	2.25"	2.25"
	With MUA		2.25"	2.25"
Back Shelf	Exhaust Only	4.166"	2.25"	2.25"
	With MUA		2.25"	2.25"
Condensate		2.25"	2.25"	

HANGING ANGLE LOCATIONS

HOOD INFORMATION – JOB#6909332

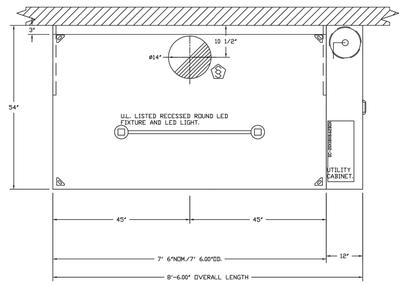
HOOD NO	TAG	MODEL	MANUFACTURER	LENGTH	MAX COOKING TEMP	TYPE	APPLIANCE DUTY	DESIGN CFM/FT	TOTAL EXH CFM	EXHAUST PLENUM RISER(S) WIDTH	LENG	HEIGHT	DIA	CFM	VEL	SP	HOOD CONSTRUCTION	HOOD CONFIG END TO END	HOOD CONFIG ROW
1	27	5424 ND-2	CAPTIVEAIRE	7' 6"	600 DEG	I	HEAVY	220	1650			4"	14"	1650	1543	-0.868"	430 SS WHERE EXPOSED	ALONE	ALONE

HOOD INFORMATION

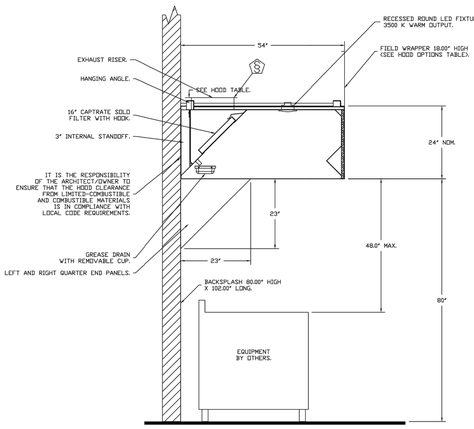
HOOD NO	TAG	FILTER(S) TYPE	QTY	HEIGHT	LENGTH	EFFICIENCY @ 7 MICRONS	LIGHT(S) QTY	TYPE	WIRE GUARD	LOCATION	SIZE	UTILITY CABINET(S) FIRE SYSTEM TYPE	SIZE	ELECTRICAL MODEL #	SWITCHES QUANTITY	FIRE SYSTEM PIPING	HOOD HANGING WEIGHT
1	27	CAPTRATE SOLO FILTER	5	16"	16"	85% SEE FILTER SPEC	2	RECESSED ROUND	NO	RIGHT	12"x54"x24"	TANK FS	4.0	DCV-1111	1 LIGHT 1 FAN	YES	609 LBS

HOOD OPTIONS

HOOD NO	TAG	OPTION
1	27	FIELD WRAPPER 18.00" HIGH FRONT, LEFT, RIGHT.
		BACKSPLASH 80.00" HIGH X 102.00" LONG 430 SS VERTICAL.
		RIGHT QUARTER END PANEL 23" TOP WIDTH, 0" BOTTOM WIDTH, 23" HIGH 430 SS.
		LEFT QUARTER END PANEL 23" TOP WIDTH, 0" BOTTOM WIDTH, 23" HIGH 430 SS.



PLAN VIEW – HOOD #1 (27)
7' 6.00" LONG 5424ND-2



SECTION VIEW – MODEL 5424ND-2
HOOD – #1 (27)

SPECIFICATION: CAPTRATE® GREASE-STOP® SOLID FILTER

THE CAPTRATE GREASE-STOP SOLID FILTER IS A SINGLE-STAGE FILTER FEATURING A UNIQUE S-BAFFLE DESIGN IN CONJUNCTION WITH A SLOTTED REAR BAFFLE DESIGN, TO DELIVER EXCEPTIONAL FILTRATION EFFICIENCY.

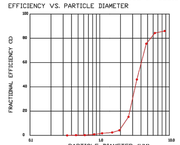
FILTER IS STAINLESS STEEL CONSTRUCTION, AND SIZED TO FIT INTO STANDARD 2-INCH DEEP HOOD CHANNEL(S).

UNITS SHALL INCLUDE STAINLESS STEEL HANDLES AND A FASTENING DEVICE TO SECURE THE TWO COMPONENTS WHEN ASSEMBLED.

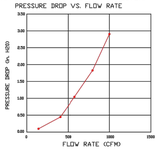
GREASE EXTRACTION EFFICIENCY PERFORMANCE SHALL REMOVE AT LEAST 75% OF GREASE PARTICLES FIVE MICRONS IN SIZE, AND 85% GREASE PARTICLES SEVEN MICRONS IN SIZE AND LARGER, WITH A CORRESPONDING PRESSURE DROP NOT TO EXCEED 10 INCHES OF WATER GAUGE.

THE CAPTRATE GREASE-STOP SOLID WAS TESTED TO ASTM STANDARD ASTM F2519-05. MANUFACTURER APPROVED FOR USE IN SOLID FUEL APPLICATIONS AS A SPARK ARRESTER.

EFFICIENCY VS. PARTICLE DIAMETER

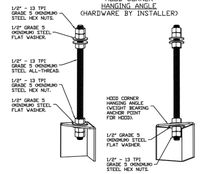


PRESSURE DROP VS. FLOW RATE



CAPTRATE FILTERS ARE BUILT IN COMPLIANCE WITH.
NFPA #96.
NSF STANDARD #2.
UL STANDARD #1046.
INT. MECH. CODE (IMC).
ULC-S649.

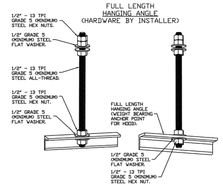
HOOD CORNER HANGING ANGLE (HARDWARE BY INSTALLER)



ASSEMBLY INSTRUCTIONS

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

FULL LENGTH HANGING ANGLE (HARDWARE BY INSTALLER)



ASSEMBLY INSTRUCTIONS

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

NOTE

ALL WALLS THAT COME WITHIN 18" OF THE HOOD MUST BE METAL STUD AND SHEETROCK.
IF WOOD STUDS FACTORY INSTALLED INSULATION REQUIRED, PLEASE ADVISE CAPTIVE AIRE PRIOR TO FABRICATION.

NOTE- Exhaust Collar Must be Factory Installed. If A Different Size Or Location Is Required, Please Note Change On Submittal.

Rear Discharge Is Available. Contact CaptiveAire For Possible Locations.

Operation of All CaptiveAire Equipment to be Verified by Factory Service Technician. Equipment Must be Operational and Fire System shall be Hooked-up and Armed. Report to be Sent to Customer by Manufacturer When Complete.

FOR QUESTIONS CALL:
ANDREW WYSOPAL
LOS ANGELES SALES OFFICE
REFERENCE JOB NUMBER
PHONE: 310.876.8505 REGB1@CAPTIVEAIRE.COM

REVISIONS

	DESCRIPTION	DATE
1		
2		
3		
4		

CAPTIVE-AIRE
Los Angeles Office
1810 14th St Suite 214, Santa Monica, CA, 90404 PHONE: (310) 876 - 8505 FAX: 8197475609 EMAIL: regb1@captiveaire.com
www.captiveaire.com

MLK Jr Youth Services / YAP rev2
1730 Oregon Street,
Berkeley, CA, 94703

DATE: 7/10/2024

DWG.#: 6909332

DRAWN BY: asw-81

SCALE: 3/4" = 1'-0"

MASTER DRAWING

SHEET NO. 1

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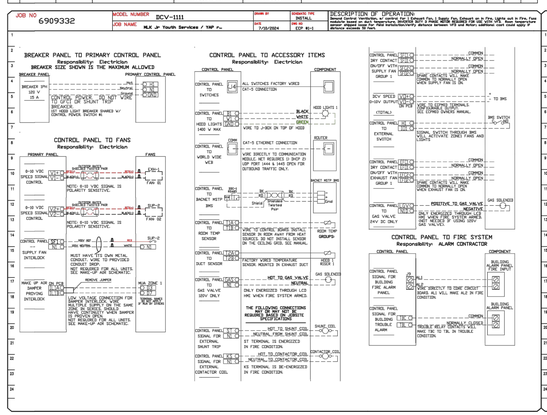
Sheet Title: HOOD DRAWING

Sheet No.: **FS-7**

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ELECTRICAL PACKAGE – JOB#6909332

NO	TAG	PACKAGE #	LOCATION	SWITCHES		OPTION	FANS CONTROLLED				
				LOCATION	QUANTITY		TYPE	#	HP	VOLT	FLA
1	27.3	DCV-1111	UTILITY CABINET RIGHT	UTILITY CABINET RIGHT	1 LIGHT						
				HOOD # 1	1 FAN	SMART CONTROLS DCV					

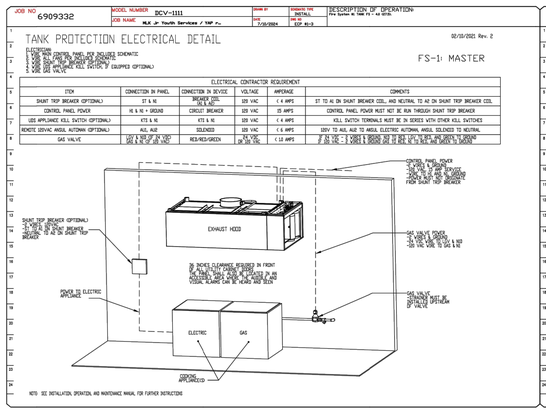


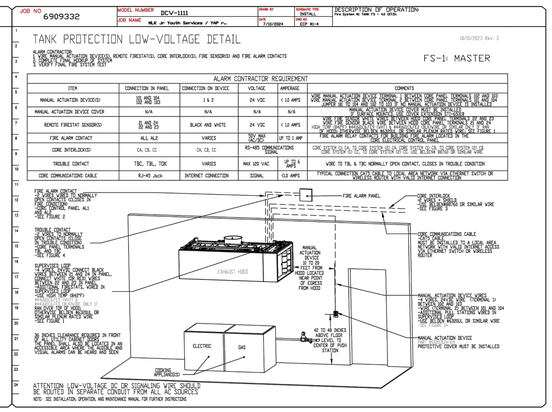
FIRE SYSTEM INFORMATION – JOB#6909332

FIRE SYSTEM NO	TAG	TYPE	SIZE	MAX FP	DESIGN FP	INSTALLATION	
						SYSTEM	LOCATION ON HOOD
1	27.5	TANK FS	4.0	20	20	FIRE CABINET RIGHT	RIGHT, HOOD 1

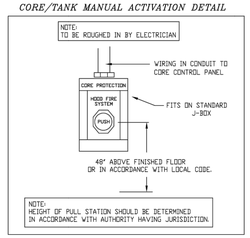
GAS VALVE(S)

FIRE SYSTEM NO	TAG	TYPE	SIZE	SUPPLIED BY
1	27.5	SC ELECTRICAL	2.000	CAPTIVEAIRE SYSTEMS





CORE/TANK MANUAL ACTIVATION DETAIL



REVISIONS

DESCRIPTION	DATE

CAPTIVEAIRE

Los Angeles Office

1810 14th St Suite 214, Santa Monica, CA, 90404 PHONE: (310) 876 - 8505 FAX: 8197475639 EMAIL: regf@captiveaire.com

www.captiveaire.com

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DRAWN BY: asw-81

SCALE: 3/4" = 1'-0"

MASTER DRAWING

SHEET NO. 2

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Sheet Title: HOOD DRAWING

Sheet No.: **FS-7.1**

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