Aviation Advisory Committee Meeting Agenda

April 8, 2026
5:30 PM

MEETING ACCESS INFORMATION

https://teams.microsoft.com/meet/27534032358617?p=Fs3eTHvP6DHmPAytky (Teams Link)
Meeting ID:275 340 323 586 17
Passcode:qF3dF7i5

Dial in by phone
+1 347-941-5324# United States, New York City
Find a local number
Phone conference ID: 717 899 120#
For organizers: Meeting options | Reset dial-in PIN

Location: Pilot Lounge @ Pearson Airport, 105 East Reserve Street.

Workshop: 5:30 p.m.

Regular Aviation Advisory Committee Meeting - 6:00

Call to Order and Roll Call

Community Communication - Public Comment
No Action. The public is invited to speak. The Aviation Advisory Committee makes no decisions during this period. Each speaker is required to fill out a pre-printed testimony card (provided at the meeting entrance) with their name and matter to be discussed and asked to state their full name for the audio recording. Please limit all comments to 3 minutes.

***Action Items/Tasks**

Aviation Advisory Committee

MEMBERS

Shon Lindley, ***Chair***
Brigham Williams, ***Vice Chair***

Brittany Sulitzer
Laura Krueger
Kevin Lux
Sara Baker
Peggy Keith
Mathew Winit
Jordan Thomas

Pearson Airfield
105 E Reserve Street
Vancouver, WA
TTY: 771
www.cityofvancouver.us/pearson-field-airport/

I. Approval of Minutes for March 11, 2026

II. Annual Event Name for Pearson Flying Event Recommendation

III. Waitlist Policy Recommendation

Communications

I. Hangar Inspections Follow Up

II. Hangar / Tiedown Waitlist

III. Utilization Rates & Leases

IV. Airport Manager's Updates

Adjournment

Community Forum Instructions
The public is invited to speak regarding any issue. Members of the public testifying are asked to limit testimony to three minutes. There are three ways to provide comments:

1. In Writing: Public comments can be submitted in writing (name, address, contact information and comments) via email to meredith.fox@cityofvancouver.us by 5pm the day before the meeting.
2. Remotely: Pre-register by phone at 360-487-8619 or email meredith.fox@cityofvancouver.us by 5pm the day before the meeting.
3. In Person: Pre-register by phone at 360-487-8619 or email meredith.fox@cityofvancouver.us by 5pm the day before the meeting or fill out a Public Comment form in person prior to the start of the Community Communications portion of the meeting.

City Hall is served by C-TRAN. Route information and schedules are available online at www.c-tran.com. You also may reach C-TRAN at (360) 695-0123 for more information on times, fares, and routes.

Anyone needing language interpretation services or accommodations with a disability at a Vancouver City Council meeting may contact the City Manager's staff at (360) 487-8600 (RELAY: 711). Assistive listening devices and live Closed Captioning are available for the deaf, hard of hearing and general public use. Please notify a staff person if you wish to use one of the devices. Every attempt at reasonable accommodation will be made. To request this agenda in another format, please also contact the phone numbers listed above.

Aviation Advisory Committee Meeting Minutes

Date: March 11, 2026
Time: 6:00 PM, Meeting
Location: Pearson Airport's Pilot's Lounge, 105 East Reserve Street

Aviation Advisory Committee (AAC) Members: Chair, Shon Lindley; Vice Chair, Brigham Williams; Laura Krueger, Kevin Lux, Brittany Sulitzer, Sara Baker, Peggy Keith, Matthew Winit, Jordan Thomas

1. Call to Order and Roll Call

- Meeting called to order at 6:01 PM by Chair Mr. Lindley. The meeting was conducted as a hybrid meeting, including both in person and remotely over Teams video conference.
- Committee Members' Present: Shon Lindley, Brigham Williams, Laura Kueger, Kevin Lux, Brittany Sulitzer, Sara Baker, Matthew Winit and Jordan Thomas.
- City of Vancouver Staff Present: Airport Manager, Meredith Fox; Financial Analyst, Shannon Turk; Assistant City Attorney, Jonathan Schetky.

2. Community Communications – Public Comment

- Public testimony received at the meeting from Henry Stine III and Kimberlee Goheen Elbon.

3. Approval of Minutes – February 11, 2026

- Motion by Brigham, seconded by Sara to approve the minutes with amending section 7.1 as discussed. Approved unanimously.

4. Communications

4.1 VCM 10.05.065 Current Airport Layout and Master Plans

- Master Plan is in the early stages with grants in the application processes.
- ETA in June for grant awards with subsequent planning and public meetings/comments.
- Scope of Work template will not be finalized until the consultant is selected and approved.
- Committee: General discussion around Airport Layout Plan and Master Plan – table for further discussion.

4.2 AAC Recommendations for budget/beautification ideas

- Multiple beautification ideas were presented from AAC members. Future discussions are forthcoming.

4.3 AAC Members' Discussion

- Discussion of OPMA rules, communication within the AAC, and enhanced communication with the public. Sara read her comments addressing OPMA and staff communications. No action taken.

4.4 Airport Manager's Updates

- Portland Airport tour in February went well.
- WSDOT cleaning up dead cottonwood trees along the south side of the airport.

- Airport hangars fire and safety inspections by the City Fire Marshal and City Safety Inspector - scheduled for March 18th and March 19th.
- Annual Aviation Event: In early stages of planning in conjunction with National Parks Service and saved the date for August 15th.
- Boards & Commissions Spring Open House is scheduled for March 18th. Applications for AAC open seats close on April 15th.
- Airport Terminal Renovation Updates: FAA awarded the grant. EVO Designs was the lowest bidder, and the contract is awaiting approval by City council.
- Noise abatement locations and procedures were discussed.

5. Next Meeting Topics

- Location for AAC meetings during the airport terminal renovation.
- Hangar tie-down wait list, utilization rate and lease compliance.

6. Adjournment

Motion by Sara Baker to adjourn the meeting, seconded by Brittany Sulitzer, and vote passed unanimously. Meeting adjourned at 8:08 PM.

God Day ~ I still have an issue with the set up and time constraints that are put on The Public for signing up to Speak. There is no Good reason to be required to sign up the day before any meeting. The Clark County Council has considerable more Freedom as a Citizen can simply call in to Speak or Testify. In My opinion this form of constraint is part of Vancouvers means to silence The Public as the continue a sanctuary form of government. My Family has history with the Aviation Community, having a past Aviation business there and I also contest dropping the 4th of July Independence Day fireworks - also a means to suppress The Public with this form of government rule over The People. Don't be afraid of The Public, serve US well and allow Open Public Comments to be made the same day of the meetings.

Thank You and I ask this matter to be brought up at Your next meeting ~

Sincerely ~ Kimberlee Goheen Elbon

Meredith, thank you for your email response to my request for enhanced communication structure. I want to address a few things directly and on the record.

At our last meeting, the AAC collectively agreed to find collaborative ways to better engage with based pilots and KVUO parties and to provide updates to the broader KVUO community. That was a shared commitment made in a public meeting — exactly the kind of transparent, community-oriented process OPMA is designed to support. I want to make sure we follow through on that, not walk it back.

I also want to respectfully push back on the framing of your OPMA reminder. OPMA exists to prevent government bodies from making decisions outside of public view. It does not prohibit committee members from having conversations with constituents, gathering community feedback, or staying informed about the concerns of based pilots. Listening to the community is not deliberating as a committee — it is exactly what makes our formal recommendations **meaningful** and **credible**. Restricting that kind of engagement would undermine the purpose of having an advisory committee in the first place.

For clarity, a serial meeting under OPMA is defined as a series of communications — whether by phone, email, or in person — between members of a governing body that, taken together, involve a quorum of that body discussing public business outside of a properly noticed public meeting. The key elements are: (1) the cumulative communications involve a quorum, and (2) they concern the committee's official business or **the formation of a collective position**. There are two important points that follow directly from this definition.

First, one-on-one conversations between two AAC members do not constitute a serial meeting. A 1:1 exchange — even about committee-related topics — does not involve a quorum and therefore does not trigger OPMA concerns on its own. Neither does cc'ing original subcommittee members on a follow-up. Members should feel free to have those conversations without fear of legal violation.

Second, sub-committees are a well-established and legally recognized tool for advisory bodies to do focused work between formal meetings. Provided a sub-committee does not itself constitute a quorum of the full AAC and is not being used to predetermine votes or circumvent public deliberation, its work does not violate OPMA. Sub-committees are specifically intended to allow deeper engagement on issues — exactly the kind of collaborative structure our committee discussed pursuing.

I fully agree that AAC members **should not be building consensus**, **forming positions**, or **taking action as a full committee outside of a public meeting**. I have not done that, and I won't. But I do intend to continue engaging with the KVUO community in a non-deliberative capacity, as any effective advisory committee member should be able to do.

I also want to raise something broader, because I think it's relevant to this conversation. What I'm hearing from the KVUO community — and what I've experienced firsthand — is that a

combative, uncollaborative approach to airport management is damaging to the airport community we're all here to serve. A strong airport doesn't just run on rules and regulations; it runs on trust, communication, and a shared sense of investment from the people who fly here, work here, and call this place home. That trust is eroded when good-faith efforts to engage are met with legal warnings rather than partnership.

Given that this touches on the core function of the AAC, I'd like to formally request that community engagement guidelines, sub-committee structure, and the OPMA question be added to the next meeting agenda so the full committee can discuss this in the open forum it deserves.

Thank you,
Sara

POLICY AND PROCEDURE

CITY OF VANCOUVER WASHINGTON	**INDEX** **Administrative/Airport/Airport Policies**			
Subject **Airport Waitlist Policy**	**Number** 481-01	**Rev.** A	**Eff. Date** 12/01/18	**Page 1 of 3**
	Supersedes **New**	**Prepared by:** **J. Walker**	**Approved by:**	

1. Purpose

The intent of this policy is to establish and maintain a fair and equitable policy on the establishment, use, and implementation of a waiting list for potential tenants who want to rent T- hangar or tie-down space at Pearson Field Airport.

2. Applicability

This policy will apply only to city owned hangars and reserved tie-downs located at Pearson Field Airport and excludes any space designated for commercial aviation use. This policy will apply to all written requests received by Pearson Field Airport for hangars and tie-downs.

3. References

VMC 10.05.145 Sec. "E"

4. Definitions

"**Airport**" shall mean those areas within Pearson Field Airport including land, air space above, and all buildings on airport owned property.

"**Airport Manager**" shall mean the Airport Manager, and his/her agents.

"End Units" shall mean larger units located on the ends of certain hangar rows.

"**Renter**" shall mean the aircraft owner leasing a hangar or tie-down space.

"**T-Hangars**" shall mean city-owned aircraft storage hangars located in rows A-J

"Tie-Downs" shall mean city owned ramp space where aircraft can be tied down. Some tie-downs are available for rent on a monthly basis and others are available for transient aircraft.

5. PROCEDURES

5.1. Waitlist Requests

Requests to be place on the waitlist should be submitted in writing to the Airport Manager or designee. The requests shall include the following information:

- Full name
- Phone number
- Email address
- Aircraft type
- Aircraft tail number
- Type of rental requested - tie down, T-Hangar, or end unit

5.2. Response to Hangar Availability

When the person's name reaches the top of the waitlist for a tie-down, T-hangar or end unit, they will be contacted using the information required in Section 5.1. If contact cannot be made in a reasonable time, the individual will be deleted from the list.

If it is necessary to leave a message via email or phone regarding the opportunity to rent a tie-down, T-hangar, or end unit, the individual will have three (3) days in which to respond. If no response is received, the individual will be deleted from the waiting list.

5.3 Response After Hangar Offer

After being contacted by airport personnel, an individual will have a period of three (3) business days to decide whether they want to rent the available hangar or tie down. If the individual does not respond within that period, the next person on the list will be contacted.

An individual who declines a hangar or tie-down when offered will then be moved to the bottom of the waiting list. If the individual declines a second available hangar or tie-down offered, their name will be deleted from the waiting list.

An individual whose name comes up on the waiting list for a tie down, T-hangar, or end unit must have an aircraft to store in the hangar at the time of rental. The registration number, model, and type of aircraft will be required at the time of rental. If the potential tenant does not have an aircraft, it will be considered the first "decline".

A potential renter whose name comes up on the wait list must be able to comply with the requirements of the airport's standard rental agreement in order to be eligible to rent a tie-down or hangar.

5.4 Priority of Requests

Priority will be given as follows to all requests on the waitlist:

1. Current tenants requesting a move to a specific unit (one move allowed per calendar year if unit is available);
2. New aeronautical use tenants.

6. LIMITATIONS / APPROVALS / RESPONSIBILITIES / ETC

This policy shall not be interpreted to interfere with the normal operations of Pearson Field Airport or any of its existing obligations. This policy does not prohibit or in any way limit the special circumstances that are common in the aviation industry. Variations from this policy will be documented by the Airport Manager in writing. Pearson Field Airport receives FAA grant funds and fully complies with the standards set forth in FAA 2014-0463 Policy on the Non-Aeronautical Use of Airport Hangars.

City of Vancouver
Pearson Field
Airport

POLICY AND PROCEDURE

CITY OF VANCOUVER WASHINGTON	**INDEX** **Administrative/Airport/Airport Policies**			
Subject **Airport Waitlist Policy**	**Number** **481-01**	**Rev.** **B**	**Eff. Date** **xxxxx**	**Page** **1 of 4**
	Supersedes **481-01A**	**Prepared by:** **M. Fox**	**Approved by:**	

1. Purpose

The intent of this policy is to establish and maintain a fair and equitable policy on the establishment, use, and implementation of a waiting list for potential tenants who want to rent T- hangar or tie-down space at Pearson Field Airport.

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VMC 10.05.145 Sec. "E"

4. Definitions

"**Airport**" shall mean those areas within Pearson Field Airport including land, air space above, and all buildings on airport owned property.

"**Airport Manager**" shall mean the Airport Manager, and their agents.

"End Units" shall mean larger units located on the ends of certain hangar rows.

"**Renter**" shall mean the aircraft owner leasing a hangar or tie-down space.

"**T-Hangars**" shall mean city-owned aircraft storage hangars located in rows A-J

"Tie-Downs" shall mean city owned ramp space where aircraft can be tied down. Some tie-downs are available for rent on a monthly basis, and others are available for transient aircraft.

5. PROCEDURES

5.1. Waitlist Requests

Requests to be placed on the waitlist should be submitted through the City of Vancouver's website at Pearson Field Airport -The City of Vancouver, WA for chronological, time stamped tracking purposes. Requests may also be submitted in writing to the Airport Manager. The date and time that the Airport Manager reviews the request will serve as the time of receipt. The requests shall include the following required information:

- Full name
- Phone number
- Email address
- Aircraft type
- Aircraft tail number – to be included under the "Additional Comments" section
- Type of rental requested - tie down, T-Hangar, or end unit
- Deposit - $100 paid to The City of Vancouver which shall be used towards the rental deposit. Deposit is refundable.

5.2. Waitlist Availability Offer

A. Waitlist for a tie-down, T-hangar or end unit will be worked in the order of chronological date/time stamp received.
B. Requesters will be contacted using the contact information required in Section 5.1.
C. Offers will be emailed unless there is no email, then offers will be made by phone, and requester will have 48 hours to respond to offer. At the time Airport Management calls, regardless of whether or not the requestor answers and/or whether or not Airport Management is able to leave a voicemail.
D. A "Unit Available" offer will be presented via email (or phone if requester does not have email), regarding the opportunity.
E. Once an offer message has been presented, the requester will then have 48 hours to reply with **one** of three options described in 5.3(A). If they fail to do so, the requester will be deleted from the waitlist.

5.3. Waitlist Offer Conditions, Qualifications and Requirements

Waitlist Offer Conditions:

A. Upon offer, the requester will have 48 hours to respond with one of the following:
   1. Acceptance
   2. Decline & Drop (moved to the bottom of the waitlist)
   3. Waitlist Removal
B. If no response is received within 48 hours, the requester will be removed from the waitlist, and the next person will be contacted.
C. 1. A first decline results in requester being moved to the bottom of the waitlist.
   2. A second decline results in removal from the waitlist.

Waitlist Offer Qualifications:

A. To accept a hangar or tie-down, the requester must be the owner or co-owner of the aircraft to be stored or constructing amateur-built or kit-built Aircraft provided that activities are conducted timely and safely.

B. If the requester does not own or co-own an aircraft at the time of offer, or is not constructing an aircraft, it will be considered a decline.

Waitlist Offer Requirements:

A. Potential tenants must meet all requirements of their signed Pearson Field Standard Rental Agreement and follow all Pearson Field Rules and Regulations.
B. Requester will have three (3) business days once they have confirmed yes to the available offer to provide all required documentation (detailed in section 5.5). *Failure to do so will result in either a Decline & Drop or Waitlist Removal.*
C. The aircraft's registration, insurance, airworthiness certificate, aircraft model, and type must be provided at the time of rental.

5.4 Required Waitlist Offer Response

Due to the extended length of the Pearson Field waitlist, Management Staff (for Pearson Field) **must** receive a response to this offer. (If calling by phone, leave a message if able stating requester has 48 hours to reply with one of the responses below).

Failure to respond within 48 hours with one of the following responses below will result in removal from the waitlist.

Please reply to this email to indicate **one** of the following:

1. You wish to accept the offer.
2. You wish to decline and will be moved to the bottom of the list.
3. You wish to be removed from the waitlist.

5.5 Required Documentation for Waitlist Occupancy

The following documentation is required to be submitted within 3 business days after requester has accepted the offer. If documentation is not provided within those three business days, the requester will be removed from the waitlist:

- Valid aircraft registration with the FAA (current registration, no derelict aircraft).
- Airworthiness certificate.
- Proof of current insurance, listing the City of Vancouver as additional insured
    - Please call your insurance provider and add the City of Vancouver as an additional insured.
    - The City's address is 415 W 6th St, Vancouver WA 98660.
    - Coverage of no less than $500,000 per occurrence & for bodily injury.

- Proof of aircraft ownership (If LLC owned, ownership is acceptable with Articles or Certificate of Organization with owner's/member's name(s) listed).
- Completed ACH form (attached) and a voided check for autopay setup.
- Full name, additional renter's names, mailing addresses, phone numbers, email addresses and aircraft make/model/color/tail #.

6. Priority of Requests

Priority will be given as follows:

1. Current tenants requesting a move to a specific unit (one move allowed per calendar year if unit is available);
2. New aeronautical use tenants.

7. LIMITATIONS / APPROVALS / RESPONSIBILITIES / ETC

This policy shall not be interpreted to interfere with the normal operations of Pearson Field Airport or any of its existing obligations. This policy does not prohibit or in any way limit the special circumstances that are common in the aviation industry. Variations from this policy will be documented by the Airport Manager in writing. Pearson Field Airport receives FAA grant funds and fully complies with the standards set forth in FAA 2014-0463 Policy on the Non-Aeronautical Use of Airport Hangars.

PEARSON FIELD AIRPORT

101 E Reserve ST | Vancouver, WA 98661 | Manager Phone # (360)487-8619

BASED AIRCRAFT AGREEMENT

Make checks payable to: City of Vancouver | PO Box 8995 |Vancouver, WA 98668

To pay by credit card call 360-487-8454, option #5; AUTOPAY recommended, banking accounts only

For billing questions or concerns: airportbilling@cityofvancouver.us

TENANT INFORMATION

Name:	Business Name:	
Address:		
City:	State:	
Home Phone:	Email:	
Cell:	Work Phone:	

AIRCRAFT & INSURANCE

Year / Make / Model:	
Tail Number:	Color:
Insurance Policy Number:	Expiration Date:
Insurance Agency & Phone:	

Proof of insurance, naming City of Vancouver as an Additional Insured, must be included with your lease application (hangars only).

RENTAL FACILITY TYPE

Hangar Type	Unit Number	Monthly Lease Rate	Discount	**Total Monthly Cost**
☐ Reserved Tie-Down		$75.00		$75.00
☐ Standard T-Hangar		$330.00		$330.00
☐ End Unit		$491.00		$491.00
☐ T-Hangar discounted (A & B Rows Only)		$330.00	10%	$297.00
☐ End Unit discounted (A&B Rows Only)		$491.00	10%	$442.00
☐				

Billing Information

Security Deposit **Equal to One Month's Rent** - Monthly payments due by the **10th each month.**

EMAIL Security Deposit Receipt to: airportbilling@cityofvancouver.us

FOR AIRPORT OFFICE USE	**CUSTOMER ID #:**
Unit Number:	Rental Start Date:
Lock Number: Returned:	Monthly Total: $
Access Card Number:	Rental Vacated Date: Refundable: ☐ Yes ☐ No
# of Keys Issued: Returned:	Security Deposit: $ Paid Date:

PEARSON FIELD AIRPORT

TIE-DOWN RENTAL AGREEMENT
INDIVIDUAL AND CO-OWNERS

This RENTAL **AGREEMENT** ("Agreement") is entered into as of this ____ day of _____, 20___ between the City of Vancouver, a municipal corporation of the State of Washington ("City") and _____, in their personal and individual capacity, (See Addendum A) DBA _____ ("Renter").

WHEREAS, the City is the owner and operator of Pearson Field Airport, located in Clark County, Washington; and

WHEREAS, the Renter is interested in renting Tie-Down space at Pearson Field Airport for the purpose of storing their aircraft; and

WHEREAS, the purpose of this Agreement is to set forth the terms and conditions of such occupancy and use of the facilities at Pearson Field Airport;

NOW, THEREFORE, for and in consideration of the mutual covenants and agreements herein contained, and for the other good and valuable consideration, the parties agree as follows:

SECTION 1. **PREMISES**

The City hereby agrees to rent to Renter, subject to the terms and conditions set forth in this Agreement, the following property:

Tie-Down Space No. _____ located at Pearson Field Airport.

SECTION 2. TERM

This Agreement shall be on a month-to-month basis, commencing on the ____day of _____, 20_____ ("Effective Date"), and renewing automatically on a month-to-month basis until terminated.

SECTION 3. RENT

3.1 Monthly Rent. The rent for the assigned Tie-Down space shall be **$75.00 per month**. Rent for any period that is less than thirty (30) days, shall be at a prorated portion of the monthly rent. Renter also agrees to pay any other additional city, state or federal taxes payable or which may become payable by the City associated with the rented property covered under this Agreement. Rents owing under the terms of this Agreement shall be paid in advance on or before the 10th day of each month to:

City of Vancouver- Pearson Field
Finance Department
P.O. Box 8995
Vancouver, Washington 98668-8995

Or at such other place or in such other manner (*e.g.* electronic transfer) as the City may designate; notwithstanding the City's right to exercise the provisions under Section 5.3 Default.

3.2 Identification of Renter. If more than one person executes this Agreement as Renter: (i) each of them is liable for performing all of the terms of this Agreement required to be performed by Renter, and (ii) the term "Renter" as used in this Agreement includes each of them. The notice from, or notice or refund to, or the signature of any one or more of them, with respect to this Agreement, including, but not limited to, any renewal, extension, termination or modification of this Agreement, is binding upon each and all of the persons executing this Agreement as Renter with the same force and effect as if each and all of them had so acted or so given or received such notice or refund or so signed. Furthermore, each "renter" shall be identified in the rental Agreement, and shall be required to sign the rental Agreement. Anyone who has not signed the rental Agreement shall have no rights under this Agreement, including access to the rented space.

3.3 Deposit Applied Towards Last Month Rental Sum. At the time of signing of this Agreement, Renter shall deliver to the City the deposit amount of **$ 75.00** , in addition to the first month's rent, as consideration for the rental of the premises described in Section 1. Said amount shall become the property of the Airport, and Renter shall not receive any income from, nor retain any interest in, the deposit amount, except that said amount shall be applied towards Renter's last month's rent, at the termination of the Agreement, should Renter fully perform and comply with the terms and conditions of this Agreement. Renter acknowledges that the last month's rent may exceed the amount of the deposit

described in this section. Renter agrees to provide City the difference between the deposit and the last month's rent, if any, in order to make payment in full for the total amount due on Renter's last month's rent. In the event, Renter fails to fully perform and comply with the terms and conditions of this Agreement, City shall be fully entitled to the entire sum of said deposit, in addition to any and all other remedies available at law.

3.4 Rent Increases. The City reserves the right to increase the monthly rental amount of the rented premises by providing Renter thirty (30) days advance written notice.

SECTION 4. USES OF PREMISES

It is the intention of Pearson Field Airport to be compliant with FAA rules and current guidance regarding both acceptable and prohibited use of the tie-down spaces.

4.1 Use. Renter agrees that it will utilize the rented premises for the storage of one Renter owned aircraft, and for no other purpose.

4.2 Ownership of Aircraft. Renter shall be the owner of the aircraft stored on the rented premises. In the event that an aircraft is owned by multiple parties, each owner shall sign this Agreement in order for it to be executed. Aircraft ownership shall be established by the parties' name(s) appearing on the Federal Aviation Administration Form (AC Form 8050-3) Certificate of Aircraft Registration, a copy of which shall be attached to this Agreement. Should the Renter sell the aircraft during the term of this Agreement, and purchase another aircraft, a copy of the new aircraft AC Form 8050-3 will be sent to the Airport Manager within thirty (30) days. If the Renter is unable to provide proof of purchase of a new aircraft within sixty (60) days after the sale of the previous aircraft, this Agreement shall automatically terminate.

4.3 Airworthiness Certificate. Renter's aircraft shall have a current airworthiness certificate or must be issued an aircraft airworthiness certificate within sixty 60 days of the commencement date of this Agreement. Extensions of up to 60 days may be granted, depending on the status of the airport's tie-down space wait list, for repair of damaged aircraft. An agreed-upon completion or extension schedule shall be in writing and approved by the Airport Manager.

4.4 Maintenance of Premises. Renter shall maintain all premises covered by this Agreement in a safe, clean, orderly and inviting condition at all times, free of any debris or waste materials, and in like condition as of the effective date of this Agreement excepting normal wear. Renter shall at all times keep the adjacent taxiway and pavement free of any and all obstructions. Requests for Tie-Down space or airport repair shall be made to the Airport Manager in writing. The City shall be responsible for the repair and maintenance to reasonable and customary standards of the tie-down anchors.

4.5 Airport Security. The Airport has a gated access control system that requires a key card for vehicle entry. The City will issue up to two (2) key cards to Renter upon signing of the Agreement. Renter shall maintain gate card security and not allow access to the field by non-authorized parties. Additional key cards may be issued at a cost of $__10__ per card. Lost key cards should be immediately reported to the Airport Manager. At the termination of this Agreement, Renter must return all City issued access cards to the City within ten (10) days. If all cards are not returned to the City within ten (10) days, Renter may be charge $__10__ per card without further notice.

SECTION 5. **TERMINATION AND DEFAULT**

5. 1 Possession of Premises. This Agreement is not effective until execution by and delivery to both City and Renter. Renter shall not be entitled to take possession of the premises until this Agreement is fully executed.

5.2 Termination. This Agreement shall be subject to termination by either party by providing a minimum of thirty (30) days written notice to the other party. All written notices shall be made pursuant to Section 9.10 of this Agreement. Upon termination of the Agreement by either party, should any items or debris be left in the Tie Down space or if any oil or substances, except that which may have been present on move-in, are left on the floor that require removal or cleaning, all costs pertaining to cleaning the Tie-Down space, shall be the liability of the Renter. If the airport incurs any cost associated with Tie-Down space cleaning after the Renter has vacated, the Renter will be billed for the full amount. Upon termination of this Agreement, Renter shall have no further right or interest in the rented premises and the City shall be entitled to have the rented premises returned to it.

5.3 Removal of Renter's Property Upon Default. If Renter shall be in arrears in the payment of the rent for a period of sixty (60) days or if Renter shall fail or neglect to observe any of the covenants and agreements contained in this Agreement and such default shall continue for ten (10) days or more after City deposits in the United States mail written notice (Per Section 9.10) of such failure or neglect addressed to Renter with address that Renter supplied to City, or if Renter shall be declared bankrupt or insolvent according to law, or if any assignment of Renter's property shall be made for the benefit of creditors, or if on the expiration of this Agreement, Renter fails to surrender possession of the rented premises, the City may, immediately or at any time thereafter, without commencing and maintaining an unlawful detainer action, enter the rented premises and repossess the same and expel Renter and those claiming by, through and under Renter and remove Renter's property at Renter's expense, forcibly if necessary and store the same, all without being deemed guilty of trespass and without prejudice to any remedy which otherwise might be used for failure to pay rent or other breach of this Agreement. The City will store property it removes from the premises for a period of sixty (60) days, after which the City may sell the property by any means it may choose and apply the proceeds to costs of sale, repair or cleaning of premises and to rents owed by Renter, and shall remit to Renter any remaining proceeds of such sale.

SECTION 6. CONDITIONS AND ALTERATIONS

6.1 Condition of Premises. Renter accepts the rented premises in the existing, as is, condition. Except as described in section 4.4 the City makes no warranty or guarantee concerning the condition of the rented premises, including the physical condition, or any condition which may affect the rented premises, and it is agreed that the City will not be responsible for any loss, damage or costs which may be incurred by Renter by reason of any such condition or conditions.

6.2 Alterations. Renter shall make no alterations, additions, modifications, replacements or improvements to the rented space during the term of this Agreement, without obtaining the Airport Manager's prior written approval.

6.3 Title to Improvements. Title to all authorized improvements constructed, installed or attached to the premises shall become the property of the City. Any unauthorized improvements may be removed by the City at the Renter's expense, or in the alternative may become the property of the City at the City's sole discretion.

6.4 Floodplain. The Renter acknowledges that the rented premise is located within the 100-year floodplain and by executing this Agreement, acknowledges the potential of damage to property in the event of a major flood and hereby releases and holds harmless the City, its officials, employees and agents. If it becomes necessary, the City may provide a gate or opening in the fence for movement of aircraft to higher ground.

SECTION 7. LAWS, RULES AND REGULATIONS

Renter shall observe and obey all the laws, ordinances, regulations and rules of the federal, state, county and municipal governments which may be applicable to its operation at Pearson Field.

7.1 City Regulations. During the terms of this Agreement, the City shall have the right to adopt and enforce reasonable rules and regulations, which may be amended from time to time, for the use of Pearson Field and related facilities, which Renter agrees to observe and obey.

7.2 Landlord Tenant Regulations. This Agreement is subject to the applicable statutory provisions of Title 59 RCW, Landlord-Tenant, which by this reference are fully incorporated herein as though set forth verbatim.

SECTION 8. INDEMNITY AND INSURANCE

8.1 Indemnity. Renter agrees fully to indemnify, and save and hold harmless the City, its officials, employees and agents, from and against all claims and actions and all expenses incidental to the investigation and defense thereof, based upon or arising out of damage or injuries to third persons or their property, or to the rented premises, caused by the fault or negligence or alleged fault or negligence of Renter, its agents or employees, in the use or occupancy by Renter of the premises covered by this Agreement; provided, however, that Renter shall not be liable for any injury or damage or loss

occasioned by the sole negligence of the City, its agents or employees.

8.2 Insurance. Renter agrees to carry and keep in force general liability insurance covering personal injury, death and property damage, liability insurance, and such other insurance as may be necessary to protect the City herein from such claims. Without limiting its liabilities Renter agrees to maintain a standard form of insurance policy in the sum of not less than $500,000 for any one person and $500,000 for any one occurrence. The lability insurance for bodily injury shall be a limit of $500,000 for any one occurrence. In lieu of the aforementioned limits, Renter may carry a policy providing $500,000 combined single limit bodily injury and property damage liability. Such policy or policies shall name City as an additional insured and be on file with the City. Renter agrees that insurance carried by Renter against all risk, loss and/or damage shall contain a clause whereby Renter and Renter's insurer waives its rights of subrogation against the City and Renter shall provide evidence of such waiver to the City.

SECTION 9. GENERAL PROVISIONS

9.1 Assignment, Transfer and Subletting. Renter shall not at any time assign, sublease or transfer any rights to this Agreement or any of the rights, privileges, uses or interests arising hereunder.

9.2 Non-Waiver. Any waiver of any breach of covenants herein contained to be kept and performed by either party hereto, shall not be deemed or considered as a continuing waiver and shall not operate to bar or prevent the other party hereto from declaring a forfeiture, termination or cancellation for any succeeding breach either of the same condition or covenant or otherwise. Acceptance or payment of rental shall not be deemed a waiver.

9.3 Quiet enjoyment. The City agrees that on payment of the rent and performance of the covenants and agreements on the part of the Renter to be performed hereunder, Renter shall peaceably have and enjoy the rented premises and all rights and privileges of Pearson Field, its appurtenances and facilities.

9.4 Attorney fees. In the event any action, suit or proceeding is brought to collect the rent due,

or to become due hereunder, or any portion thereof or to take possession of said premises or to enforce compliance with this Agreement or for failure to observe any of the covenants of this Agreement, Renter agrees to pay the City such sum as the Court may adjudge reasonable as attorney costs and fees to be allowed in said suit, action or proceeding, and in the event of an appeal as allowed by the Appellate Court.

9.5 Assurance Subordination. This Agreement shall be subordinate to the provisions of any agreement between the City and the United States relative to the operation or maintenance of Pearson Field, the execution of which has been required as a condition precedent to the expenditure of federal funds for the development of Pearson Field.

9.6 Non-Discrimination. Pursuant to Title VI of the Civil Rights Act of 1964, by Part 15 of the Federal Aviation Regulations and by the City of Vancouver Charter, Article VII, Section 7.10, Lessee agrees it will not discriminate on the basis of age, race, color, national origin, ethnicity, creed, religious opinions or affiliations, sexual orientation, gender identity/expression, pregnancy, marital status, family status, mental or physical disability, military status, status as a veteran or any other protected status, and will not permit discrimination against any person or group of persons in any manner prohibited by Part 5 of the Federal Aviation Regulations. The City reserves the right to take such action as the United States may direct to enforce the provisions of this covenant, or as it may find necessary.

9.7 Interpretation of Agreement. Nothing in this Agreement shall be construed or interpreted in any manner whatsoever as limiting, relinquishing, or waiving any rights or ownership enjoyed by the City in Pearson Field, or in any manner waiving or limiting its control over the operation, maintenance, etc., of Pearson property except as is specifically provided for herein or in derogation of such governmental rights as the City poses.

9.8 Invalid Provisions. In the event any covenant, condition, or provisions herein contained is held to be invalid by any court of competent jurisdiction, the invalidity of any such covenant, condition or provision shall in no way affect any other covenant, condition or provision herein contained; provided that the invalidity of such covenant, condition or provision does not materially prejudice either the City

or Renter in its respective rights and obligations contained in the valid covenants, conditions or provisions of this Agreement.

9.9 Successors and Assigns Bound by Covenants. All of the terms, covenants and agreements herein contained shall be binding upon and shall inure to the benefit of the legal representative, successors, and authorized assigns of the respective parties hereto.

9.10 Notices. Notices to the City, provided for herein, shall be sufficient if sent by certified mail, postage prepaid, addressed to:

Pearson Field Airport Manager
City of Vancouver
P.O. Box 8995
Vancouver, WA 98668

Notices to Renter shall be sufficient if sent by certified mail, postage prepaid, addressed to:

_____

_____

_____

9.11 Cessation of Operation. In the event Pearson Field permanently ceases to be operated as an airport during the term of this Agreement, City and Renter's mutual obligations hereunder will cease. Nothing herein shall be construed to interfere with the City's right to cease such operation for a valid governmental purpose. Renter agrees to waive any and all claims for damages should Pearson Field cease operation.

9.12 Entire Agreement. This Agreement constitutes the entire agreement of the parties and cannot be modified or changed unless done so in writing and signed by the parties to this Agreement.

I agree to enter into this Rental Agreement in my personal and individual capacity and/or dba _____. I affirm that I understand and agree to the terms and conditions of this Agreement.

EXECUTED this ____ day of _____20___.

CITY OF VANCOUVER,
A Municipal Corporation

_____
By: Airport Representative

_____
By: City Representative

RENTER

_____
By:

_____
(Home Phone)

_____
(Business Phone)

_____
(Cellular Phone)

_____
(E-mail)

_____
(Mailing Address)

Aircraft Type: _____

Aircraft Registration No._____

City Gate Card Numbers:_____

ADDENDUM A: ADDITIONAL RENTERS

Per this Agreement, if more than one person is renting the tie-down space, each renter needs to be identified and is required to sign the rental Agreement.

ADDITIONAL RENTER	ADDITIONAL RENTER
_____ (Name)	_____ (Name)
_____ (Home Phone)	_____ (Home Phone)
_____ (Business Phone)	_____ (Business Phone)
_____ (Cell Phone)	_____ (Cell Phone)
_____ (E-mail)	_____ (E-mail)
_____	_____
_____ (Mailing Address)	_____ (Mailing Address)
_____ (Signature)	_____ (Signature)

PEARSON FIELD AIRPORT

101 E Reserve ST | Vancouver, WA 98661 | Manager Phone # (360)487-8619

BASED AIRCRAFT AGREEMENT

Make checks payable to: City of Vancouver | PO Box 8995 |Vancouver, WA 98668

To pay by credit card call 360-487-8454, option #5; AUTOPAY recommended, banking accounts only

For billing questions or concerns: airportbilling@cityofvancouver.us

TENANT INFORMATION

Name:	Business Name:	
Address:		
City:	State:	
Home Phone:	Email:	
Cell:	Work Phone:	

AIRCRAFT & INSURANCE

Year / Make / Model:	
Tail Number:	Color:
Insurance Policy Number:	Expiration Date:
Insurance Agency & Phone:	

Proof of insurance, naming City of Vancouver as an Additional Insured, must be included with your lease application (hangars only).

RENTAL FACILITY TYPE

Hangar Type	Unit Number	Monthly Lease Rate	Discount	**Total Monthly Cost**
☐ Reserved Tie-Down		$49.00		$49.00
☐ Standard T-Hangar		$330.00		$330.00
☐ End Unit		$491.00		$491.00
☐ T-Hangar discounted (A & B Rows Only)		$330.00	10%	$297.00
☐ End Unit discounted (A&B Rows Only)		$491.00	10%	$442.00
☐				

Billing Information

Security Deposit **Equal to One Month's Rent** - Monthly payments due by the **10th each month.**

EMAIL Security Deposit Receipt to: airportbilling@cityofvancouver.us

FOR AIRPORT OFFICE USE	**CUSTOMER ID #:**
Unit Number:	Rental Start Date:
Lock Number: Returned:	Monthly Total: $
Access Card Number:	Rental Vacated Date: Refundable: ☐ Yes ☐ No
# of Keys Issued: Returned:	Security Deposit: $ Paid Date:

PEARSON FIELD AIRPORT

T-HANGAR RENTAL AGREEMENT
INDIVIDUAL AND CO-OWNERS

This RENTAL **AGREEMENT** ("Agreement") is entered into as of this ____ day of _____, 20___ between the City of Vancouver, a municipal corporation of the State of Washington ("City") and _____, in their personal and individual capacity, (See Addendum A) DBA _____ ("Renter").

WHEREAS, the City is the owner and operator of Pearson Field Airport, located in Clark County, Washington; and

WHEREAS, the Renter is interested in renting T-Hangar space at Pearson Field Airport for the purpose of housing aircraft; and

WHEREAS, the purpose of this Agreement is to set forth the terms and conditions of such occupancy and use of the facilities at Pearson Field Airport;

NOW, THEREFORE, for and in consideration of the mutual covenants and agreements herein contained, and for the other good and valuable consideration, the parties agree as follows:

SECTION 1. **PREMISES**

The City hereby agrees to rent to Renter, subject to the terms and conditions set forth in this Agreement, the following property:

Space No. _____ in T-Hangar _____ located at Pearson Field Airport.

SECTION 2. TERM

This Agreement shall be on a month-to-month basis, commencing on the ____day of _____, _____ ("Effective Date"), and renewing automatically on a month-to-month basis until terminated.

SECTION 3. RENT

3.1 Monthly Rent. The rent for the assigned T-Hangar shall be $_____ per month. Rent for any period that is less than thirty (30) days, shall be at a prorated portion of the monthly rent. Renter also agrees to pay any other additional city, state or federal taxes payable or which may become payable by the City associated with the rented property covered under this Agreement. Rents owing under the terms of this Agreement shall be paid in advance on or before the 10th day of each month to:

City of Vancouver- Pearson Field
Finance Department
P.O. Box 8995
Vancouver, Washington 98668

Or at such other place or in such other manner (*e.g.* electronic transfer) as the City may designate; notwithstanding the City's right to exercise the provisions under Section 5.3 Default.

3.2 Identification of Renter. If more than one person executes this Agreement as Renter: (i) each of them is liable for performing all of the terms of this Agreement required to be performed by Renter, and (ii) the term "Renter" as used in this Agreement includes each of them. The notice from, or notice or refund to, or the signature of any one or more of them, with respect to this Agreement, including, but not limited to, any renewal, extension, termination or modification of this Agreement, is binding upon each and all of the persons executing this Agreement as Renter with the same force and effect as if each and all of them had so acted or so given or received such notice or refund or so signed. Furthermore, each "renter" shall be identified in the rental Agreement, and shall be required to sign the rental Agreement. Anyone who has not signed the rental Agreement shall have no rights under this Agreement, including access to the rented space.

3.3 Deposit Applied Towards Last Month Rental Sum. At the time of signing of this Agreement, Renter shall deliver to the City the deposit amount of $_____, in addition to the first month's rent, as consideration for the rental of the premises described in Section 1. Said amount shall become the property of the Airport, and Renter shall not receive any income from, nor retain any interest in, the deposit amount, except that said amount shall be applied towards Renter's last month's rent, at the termination of the Agreement, should Renter fully perform and comply with the terms and

conditions of this Agreement. Renter acknowledges that the last month's rent may exceed the amount of the deposit described in this section. Renter agrees to provide City the difference between the deposit and the last month's rent, if any, in order to make payment in full for the total amount due on Renter's last month's rent. In the event, Renter fails to fully perform and comply with the terms and conditions of this Agreement, City shall be fully entitled to the entire sum of said deposit, in addition to any and all other remedies available at law.

3.4 Rent Increases. The City reserves the right to increase the monthly rental amount of the rented premises by providing Renter thirty (30) days advance written notice.

SECTION 4. USES OF PREMISES

It is the intention of Pearson Field Airport to be compliant with FAA rules and current guidance regarding both acceptable and prohibited use of hangars.

4.1 Use. Renter agrees that it will utilize the rented premises for the storage of at least one Renter owned aircraft, and for no other purpose other than reasonable storage of other items not expressly prohibited in this Agreement or in Vancouver Municipal Code (VMC). In addition to aircraft storage, permitted uses include storing aircraft handling equipment, e.g. tow bar, glider tow equipment, workbenches, tools and materials used to service, maintain, repair or outfit aircraft and items related to ancillary or incidental use that do not affect the hangars primary use .

4.2 Prohibited Uses. The following uses are not permitted in T-hangars:

- Use as a residence;
- Commercial activities as defined in Minimum Standards for Commercial Activities at Pearson Field (March 23, 2015). Operating, storing and maintaining an aircraft used in the conduct of an owner's non-commercial activities (Minimum standards 5.2) is permitted;
- Activities that impede the movement of the aircraft or other aeronautical contents in and out of the hangar;

- Activities that displace the aeronautical contents of the hangar or impede access to aircraft or other aeronautical contents of the hangar;
- More than di minimis storage of household items that could be stored in commercial storage facilities;
- Storage for longer than twelve (12) months of derelict, non-airworthy or scrap aircraft and parts;
- Storage of fuel and other dangerous hazardous materials unless otherwise allowed under the terms of this Agreement;

4.3 Ownership of Aircraft. Renter shall be the owner of the aircraft stored in the rented premises. In the event that an aircraft is owned by multiple parties, each owner shall sign this Agreement in order for it to be executed. Aircraft ownership shall be established by the parties' name(s) appearing on the Federal Aviation Administration Form (AC Form 8050-3) Certificate of Aircraft Registration, a copy of which shall be attached to this Agreement. Should the Renter sell the aircraft during the term of this Agreement, and purchase another aircraft, a copy of the new aircraft AC Form 8050-3 will be sent to the Airport Manager within thirty (30) days. If the Renter is unable to provide proof of purchase of a new aircraft within sixty (60) days after the sale of the previous aircraft, this Agreement shall automatically terminate.

4.4 Airworthiness Certificate. Renter's aircraft shall have a current airworthiness certificate or must be issued an aircraft airworthiness certificate within six (6) months of the commencement date of this Agreement. Extensions of up to six (6) months may be granted, depending on the status of the airport's hangar wait list, for repair of damaged aircraft or for kit builders making good faith progress on an agreed-upon completion schedule. An agreed-upon completion or extension schedule shall be in writing and approved by the Airport Manager.

4.5 Maintenance of Premises. Renter shall maintain all premises covered by this Agreement in a safe, clean, orderly and inviting condition at all times, free of any debris or waste materials, and in like condition as of the effective date of this Agreement excepting normal wear. Renter shall at all times

keep the adjacent taxiway and pavement of the rented hangar door free of any and all obstructions or interferences to adjacent hangars. Requests for T-Hangar or airport repair shall be made to the Airport Manager in writing. The City shall be responsible for the repair and maintenance to reasonable and customary standards of the building structure including foundation, roof, walls, electrical/lighting systems, hangar doors and structural supports.

4.6 Hangar Access and Inspection. It is the Renter's responsibility to ensure the City has current contact information for the Renter including address, phone number(s), and e-mail. Renter shall allow the City's authorized representatives access to the hangar for the purpose of emergency response, inspection, maintenance, repairs and for any other purpose authorized by law. Except in the case of emergency, the City shall give the Renter at least 24-hours written notice of intent to enter. Notice must be provided via e-mail and regular or certified mail to the last known address. Notice must include a telephone number and the proposed time and date of entry, which except in the event of an emergency, shall be during hours when a Renter might reasonably expect to be available. On the date and time stated in the notice, the City has the authority to access and secure the hangar for the purposes stated above.

Renter is required to use a City-issued lock for the rented hangar to which the City shall have a master key. The City will provide Renter with a lock and up to two keys for use on the hangar at no cost. In the event that the Renter should need new key(s) or locks, the Renter shall notify the Airport Manager and shall reimburse the City $10.00 for the cost of each key replacement and $75.00 for each lock replacement. Only City-issued locks may be used to secure the rented property. If any other lock is used to secure the rented property, it shall be removed by the City at the Renter's expense.

4.7 Airport Security. The Airport has a gated, access control system that requires a key card for vehicle entry. The City will issue up to two (2) key cards to Renter upon signing of the Agreement. Renter shall maintain gate card security and not allow access to the field by non-authorized parties. Additional key cards may be issued at a cost of $ 10.00 per card. Lost key cards should be immediately reported to the Airport Manager. At the termination of this Agreement, Renter must return all City issued access cards to the City within ten (10) days. If all cards are not returned to the City within ten

(10) days, Renter may be charge $10.00 per card without further notice.

SECTION 5 .TERMINATION AND DEFAULT

5. 1 Possession of Premises. This Agreement is not effective until execution by and delivery to both City and Renter. Renter shall not be entitled to take possession of the premises until this Agreement is fully executed.

5.2 Termination. This Agreement shall be subject to termination by either party by providing a minimum of thirty (30) days written notice to the other party. All written notices shall be made pursuant to Section 9.10 of this Agreement. Upon termination of the Agreement by either party, should any items or debris be left in the T-hangar or if any oil or substances, except that which may have been present on move-in, are left on the floor that require removal or cleaning, all costs pertaining to cleaning the T-hangar, shall be the liability of the Renter. If the airport incurs any cost associated with hangar cleaning after the Renter has vacated, the Renter will be billed for the full amount. Upon termination of this Agreement, Renter shall have no further right or interest in the rented premises and the City shall be entitled to have the rented premises returned to it.

5.3 Removal of Renter's Property Upon Default. If Renter shall be in arrears in the payment of the rent for a period of sixty (60) days or if Renter shall fail or neglect to observe any of the covenants and agreements contained in this Agreement and such default shall continue for ten (10) days or more after City deposits in the United States mail written notice (Per Section 9.10) of such failure or neglect addressed to Renter with address that Renter supplied to City, or if Renter shall be declared bankrupt or insolvent according to law, or if any assignment of Renter's property shall be made for the benefit of creditors, or if on the expiration of this Agreement, Renter fails to surrender possession of the rented premises, the City may, immediately or at any time thereafter, without commencing and maintaining an unlawful detainer action, enter the rented premises and repossess the same and expel Renter and those claiming by, through and under Renter and remove Renter's property at Renter's expense, forcibly if necessary and store the same, all without being deemed guilty of trespass and without prejudice to any remedy which otherwise might be used for failure to pay rent or other breach of this Agreement. The

City will store property it removes from the premises for a period of sixty (60) days, after which the City may sell the property by any means it may choose and apply the proceeds to costs of sale, repair or cleaning of premises and to rents owed by Renter, and shall remit to Renter any remaining proceeds of such sale.

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6.1 Condition of Premises. Renter accepts the rented premises in the existing, as is, condition. Except as described in section 4.5 the City makes no warranty or guarantee concerning the condition of the rented premises, including the physical condition, or any condition which may affect the rented premises, and it is agreed that the City will not be responsible for any loss, damage or costs which may be incurred by Renter by reason of any such condition or conditions.

6.2 Alterations. Renter shall make no alterations, additions, modifications, replacements or improvements to either the interior or exterior of the rented space during the term of this Agreement, without obtaining the Airport Manager's prior written approval, including, but not limited to:

- Modifying existing wiring, installing additional outlets, fixtures, or the like;
- Painting, removing, defacing, modifying, bending, drilling, cutting or otherwise altering or modifying any part of the hangar;
- Attaching any hoisting or holding mechanism (i.e. chain-fall, block, tackle or any other hoisting device) to any part of the hangar or passing any such mechanism over the struts or braces.

6.3 Title to Improvements. Title to all authorized improvements constructed, installed or attached to the premises shall become the property of the City. Any unauthorized improvements may be removed by the City at the Renter's expense, or in the alternative may become the property of the City at the City's sole discretion.

6.4 Floodplain. The Renter acknowledges that the rented premise is located within the 100-year floodplain and by executing this Agreement, acknowledges the potential of damage to property in the

event of a major flood and hereby releases and holds harmless the City, its officials, employees and agents. If it becomes necessary, the City may provide a gate or opening in the fence for movement of aircraft to higher ground.

SECTION 7. LAWS, RULES AND REGULATIONS

Renter shall observe and obey all the laws, ordinances, regulations and rules of the federal, state, county and municipal governments which may be applicable to its operation at Pearson Field.

7.1 City Regulations. During the terms of this Agreement, the City shall have the right to adopt and enforce reasonable rules and regulations, which may be amended from time to time, for the use of Pearson Field and related facilities, which Renter agrees to observe and obey.

Rules and regulations (VMC 10.5) for the use of T-hangars include but are not limited to:

- Renter shall not hang, attach or mount anything to any portion of the structure and shall not drill holes in any portion of the structure.
- Renter shall not drill holes in or modify the floor.
- Aircraft engines shall not be operated inside T-Hangars.
- T-Hangar doors shall remain closed at all times when not in use.
- Renter shall have in each rented hangar one fire extinguisher, type 2A-10-BC, with current inspections. Renter is required to allow the City to periodically inspect fire extinguishers.
- Renter shall keep floors of hangars and adjacent areas free and clear of all oil, grease and flammable material and shall provide and utilize a drip pan under the aircraft.
- Use of gas-fired heaters is prohibited.
- Flammable and/or combustible materials:
    - No more than five (5) gallons total of flammable and/or combustible materials may be stored in the T-hanger. These materials include, but are not limited to, gas, oil, fuel, and any other flammable and/or combustible material.
    - All flammable and/or combustible materials must be stored in well maintained “listed” storage containers designed for that type of material.
    - Any container with flammable and/or combustible material is considered full for the

purposes of fire inspections regardless of the quantity of material in the listed container.

- Renter shall provide "listed" metal receptacles with self-closing covers for the storage of oily wastes, rags or other volatile material produced in their rented premises.
- With the exception of limited soldering and use of a heat gun, hot work including but not limited to welding, grinding, brazing and cutting is prohibited.

7.2 Landlord Tenant Regulations. This Agreement is subject to the applicable statutory provisions of Title 59 RCW, Landlord-Tenant, which by this reference are fully incorporated herein as though set forth verbatim.

SECTION 8. **INDEMNITY AND INSURANCE**

8.1 Indemnity. Renter agrees fully to indemnify, and save and hold harmless the City, its officials, employees and agents, from and against all claims and actions and all expenses incidental to the investigation and defense thereof, based upon or arising out of damage or injuries to third persons or their property, or to the leased premises, caused by the fault or negligence or alleged fault or negligence of Renter, its agents or employees, in the use or occupancy by Renter of the premises covered by this Agreement; provided, however, that Renter shall not be liable for any injury or damage or loss occasioned by the sole negligence of the City, its agents or employees.

8.2 Insurance. Renter agrees to carry and keep in force general liability insurance covering personal injury, death and property damage, liability insurance, and such other insurance as may be necessary to protect the City herein from such claims. Without limiting its liabilities Renter agrees to maintain a standard form of insurance policy in the sum of not less than $500,000 for any one person and $500,000 for any one occurrence. The lability insurance for bodily injury shall be a limit of $500,000 for any one occurrence. In lieu of the aforementioned limits, Renter may carry a policy providing $500,000 combined single limit bodily injury and property damage liability. Such policy or policies shall name City as an additional insured and be on file with the City. Renter agrees that insurance carried by Renter against all risk, loss and/or damage shall contain a clause whereby Renter and Renter's insurer waives its rights of subrogation against the City and Renter shall provide

evidence of such waiver to the City.

SECTION 9. GENERAL PROVISIONS

9.1 Assignment, Transfer and Subletting. Renter shall not at any time assign, sublease or transfer any rights to this Agreement or any of the rights, privileges, uses or interests arising hereunder.

9.2 Non-Waiver. Any waiver of any breach of covenants herein contained to be kept and performed by either party hereto, shall not be deemed or considered as a continuing waiver and shall not operate to bar or prevent the other party hereto from declaring a forfeiture, termination or cancellation for any succeeding breach either of the same condition or covenant or otherwise. Acceptance or payment of rental shall not be deemed a waiver.

9.3 Quiet enjoyment. The City agrees that on payment of the rent and performance of the covenants and agreements on the part of the Renter to be performed hereunder, Renter shall peaceably have and enjoy the rented premises and all rights and privileges of Pearson Field, its appurtenances and facilities.

9.4 Attorney fees. In the event any action, suit or proceeding is brought to collect the rent due, or to become due hereunder, or any portion thereof or to take possession of said premises or to enforce compliance with this Agreement or for failure to observe any of the covenants of this Agreement, Renter agrees to pay the City such sum as the Court may adjudge reasonable as attorney costs and fees to be allowed in said suit, action or proceeding, and in the event of an appeal as allowed by the Appellate Court.

9.5 Assurance Subordination. This Agreement shall be subordinate to the provisions of any agreement between the City and the United States relative to the operation or maintenance of Pearson Field, the execution of which has been required as a condition precedent to the expenditure of federal funds for the development of Pearson Field.

9.6 Non-Discrimination. Pursuant to Title VI of the Civil Rights Act of 1964, by Part 15 of the Federal Aviation Regulations and by the City of Vancouver Charter, Article VII, Section 7.10, Lessee agrees it will not discriminate on the basis of age, race, color, national origin, ethnicity, creed, religious opinions or affiliations, sexual orientation, gender identity/expression, pregnancy, marital status, family status, mental or physical disability, military status, status as a veteran or any other protected status, and will not permit discrimination against any person or group of persons in any manner prohibited by Part 5 of the Federal Aviation Regulations. The City reserves the right to take such action as the United States may direct to enforce the provisions of this covenant, or as it may find necessary.

9.7 Interpretation of Agreement. Nothing in this Agreement shall be construed or interpreted in any manner whatsoever as limiting, relinquishing, or waiving any rights or ownership enjoyed by the City in Pearson Field, or in any manner waiving or limiting its control over the operation, maintenance, etc., of Pearson property except as is specifically provided for herein or in derogation of such governmental rights as the City poses.

9.8 Invalid Provisions. In the event any covenant, condition, or provisions herein contained is held to be invalid by any court of competent jurisdiction, the invalidity of any such covenant, condition or provision shall in no way affect any other covenant, condition or provision herein contained; provided that the invalidity of such covenant, condition or provision does not materially prejudice either the City or Renter in its respective rights and obligations contained in the valid covenants, conditions or provisions of this Agreement.

9.9 Successors and Assigns Bound by Covenants. All of the terms, covenants and agreements herein contained shall be binding upon and shall inure to the benefit of the legal representative, successors, and authorized assigns of the respective parties hereto.

9.10 Notices. Notices to the City, provided for herein, shall be sufficient if sent by certified mail, postage prepaid, addressed to:

Pearson Field Airport Manager
City of Vancouver
P.O. Box 8995
Vancouver, WA 98668

Notices to Renter shall be sufficient if sent by certified mail, postage prepaid, addressed to:

_____

_____

_____

9.11 Cessation of Operation. In the event Pearson Field permanently ceases to be operated as an airport during the term of this Agreement, City and Renter's mutual obligations hereunder will cease. Nothing herein shall be construed to interfere with the City's right to cease such operation for a valid governmental purpose. Renter agrees to waive any and all claims for damages should Pearson Field cease operation.

9.12 Entire Agreement. This Agreement constitutes the entire agreement of the parties and cannot be modified or changed unless done so in writing and signed by the parties to this Agreement.

I agree to enter into this Rental Agreement in my personal and individual capacity and/or dba _____. I affirm that I understand and agree to the terms and conditions of this Agreement.

EXECUTED this ____ day of _____20__.

CITY OF VANCOUVER, A Municipal Corporation	RENTER
_____	_____
By: Airport Representative	By:
_____	_____
By: City Representative	(Home Phone)
	_____
	(Business Phone)
	_____
	(Cellular Phone)
	_____
	(E-mail)

Aircraft Type: _____

Aircraft Registration No._____

City Lock No._____ No. of Keys issued_____

City Gate Card Numbers:_____

ADDENDUM A: ADDITIONAL RENTERS

Per this Agreement, if more than one person is renting the hangar, each renter needs to be identified and is required to sign the rental Agreement.

ADDITIONAL RENTER	ADDITIONAL RENTER
_____	_____
(Name)	(Name)
_____	_____
(Home Phone)	(Home Phone)
_____	_____
(Business Phone)	(Business Phone)
_____	_____
(Cellular Phone)	(Cellular Phone)
_____	_____
(E-mail)	(E-mail)
_____	_____
(Signature)	(Signature)

POLICY AND PROCEDURE

CITY OF VANCOUVER WASHINGTON	**INDEX** **Administrative/Airport/Airport Policies**			
Subject **Hangar and Tie-Down Rental Rates**	**Number** 481-02	**Rev.** A	**Eff. Date** 12/10/18	Page 1 of 2
	Supersedes **New**	**Prepared by:** **J. Walker**	**Approved by:**	

1. Purpose

The intent of this policy is to define the process and procedures for establishing and implementing rental rates, including any discounts, for T-hangars and reserved tie-downs at Pearson Field Airport.

2. Applicability

This policy applies to city owned T-hangars and reserved tie-downs located at Pearson Field Airport.

3. References

Vancouver Municipal Code, Section 10.05.145

4. Definitions

"Airport" shall mean the land and facilities owned or controlled by the City of Vancouver known as Pearson Field Airport.

"Airport Manager" shall mean the individual or individuals designated by the City Manager as having responsibility and authority for management of Pearson Field airport.

"End Unit" shall mean larger units located on the ends of certain hangar rows.

"Itinerant Aircraft" shall mean aircraft not based at the airport.

"**Renter**" shall mean the aircraft owner leasing a hangar or tie-down space.

"T Hangar" shall mean a multiple aircraft storage building leased to individual airplane operators.

"Tie-Down" shall mean city owned ramp space where aircraft can be tied down. Some tie-downs are available for rent on a monthly basis and others are available for transient aircraft.

5. Procedures

5.1 Hangar and Tie-Down Rental Rates

Hangar and reserve tie-down rental rates at Pearson Field are evaluated on a biennial basis. Rates are intended to be at market and are established through a review of local market conditions and rates at comparable airports in the region. Rental rates are typically evaluated in the fall with rate increases going into effect on January 1st.

5.2 Rent Increases

Notices of proposed rate increases are provided to renters, in writing, via e-mail and regular mail, 30-days in advance of an increase. Hangar rate schedules are available on the airport's website at _____.

5. 3. A and B Row Hangar Rates

Discounted rental rates are available in hangar rows A and B. These hangars have been identified as having non-repairable issues that warrant a discount of 10% off the standard rate. The issues include but are not limited to:

- Minor roof leaks from the construction method (roof was nailed, not screwed)
- Uneven floors
- Asphalt rather than concrete floors
- Steep grades either up or down to connecting taxi lanes

6. LIMITATIONS / APPROVALS / RESPONSIBILITIES / ETC

This policy shall not be interpreted to interfere with the normal operations of Pearson Field Airport or any of its existing obligations. This policy does not prohibit or in any way limit the special circumstances that are common in the aviation industry. Variations from this policy will be documented by the Airport Manager in writing.

Hangar Rates

T-HANGAR ROW	T-HANGAR RATE	T-HANGAR END UNIT
A	$297	$442
B	$297	$442
C	$330	$491
D	$330	$491
E	$330	$491
F	$330	$491
F	$330	$491
G	$330	$491
H	$330	$491
I	$330	$491
J	$330	$491

Tie-Downs

Reserved tie-downs are $75 per month

Transient Overnight Fees

- $10 per night
- $50 per week
- $100 per month

Stays longer than a month will require the Airport Manager's approval. Keep an eye out for the Parking Kitty signage at the airport for additional guidance.

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LEASE AGREEMENT
FOR
FIXED BASED OPERATION AT PEARSON FIELD AIRPORT

WHEREAS, the City is the owner and operator of Pearson Field Airport "Airport" located in the City of Vancouver, County of Clark, state of Washington; and

WHEREAS, this lease agreement is to provide for and set forth the terms and conditions of such occupancy and use of said facilities at the Airport; and

NOW, THEREFORE, for and in consideration of the mutual covenants and agreements herein, and for the other good and valuable consideration, the parties hereto agree as follows:

Section 1. THE PARTIES

THIS LEASE AGREEMENT is made and entered into as of the 1st day of January, 2025 by and between the City of Vancouver, a municipal corporation of the state of Washington, Lessor, hereinafter referred to as "City", and Aero Maintenance, Inc., hereinafter referred to as "Lessee."

Section 2. LEASED PREMISES

The City hereby leases to Lessee and Lessee leases from the City the following three separate described properties identified as Property 1, Property 2 and Fuel Facility (together referred to as the "Leased Premises"):

2.1 Property 1- 101 Building and Grounds

A. Hangar building. The building located at 101 East Reserve Street, comprising of approximately 9,600 square feet of hangar space and approximately 6,000square feet of office space with paved automobile parking available directly north of the building. (See attached Exhibit A).

B. Building Apron and Parking Spaces. A paved aircraft ramp area on the east and west side of the building, extending outward a distance of approximately 80 feet. (See Exhibit A).

2.2 Property 2- 105 Building and Grounds

A. Hangar Building. The building located at 105 East Reserve Street, comprising of approximately 7,200 square feet of hangar space on the east end of the building and approximately 1,200 square feet of office space (see attached Exhibit A). Lease does not include one of the 200 square foot office spaces that will be used as the Airport Manager's office. Lessee understands that the City may be renovating the approximate 1,500 square feet of office space during the time of this lease. An amendment to reflect the release of

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this portion of the agreement may be forthcoming.

B. Building Apron and Parking Spaces. A paved area on the east side of the building, extending outward a distance of approximately 80 feet and half of the paved automobile parking area directly south of the building. This parking space to be designated as private parking for building tenants only (see Exhibit A).

2.3 Fuel Facility. A Fuel storage island consisting of three underground storage tanks, concrete pad and three fuel pumps and a dispenser, comprising a space approximately 40'x40' (see attached Exhibit A). Lessee understands that the City may be replacing the existing fuel system with an above ground Fuel Island within the timeframe covered by this Lease. Associated fees for this facility will change commensurate to the cost of this upgrade. The City reserves the right to assume responsibility for fueling operations any time after the installation of an above ground fueling facility.

Section 3. RENTAL AMOUNTS AND ASSOCIATED FEES

3.1 Base Rent. A Rent for property 1 at 101 East Reserve Street shall be $2.50 per square foot per year for hangar space and $5.20 per square foot per year for office space. (Hangar space is approximately 9,600, square feet at $2.50/sqft/yr equals $2,000.00 per month for the first year. Office space is approximately 6,000 square feet at $5.20/sqft/yr equals $2,600 per month for the first year).

Rent for property 2 at 105 East Reserve Street shall be $2.50 per square foot per year for hangar space and $5.20 per square foot per year for office space. Hangar space is approximately 7,200, square feet at $2.50/sqft/yr equals $1,500.00 per month for the first year. Office space is approximately 1,200 square feet at $5.20/sqft/yr equals $520.00 per month for the first year.

Rent for Fuel Facility at 101 East Reserve Street shall be $300.00 per month for the first year.

Lessee also agrees to pay any other additional state, federal or city taxes payable or which may become payable by the City and are associated with the leased property covered under this agreement. Rent shall be paid in monthly installments on or before the 10th day of every month, with the first payment due on January 1, 2025.

3.2 Fuel Flowage User Fee. In addition to the rents set forth above, Lessee shall pay the City a fuel flowage fee for each gallon of fuel delivered to the Fixed-Base Operator FBO at the Airport.

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The fuel flowage fee shall be Eight Cents ($0.08) per gallon. The City may from time to time, in the exercise of its reasonable discretion, adjust the Fuel Flowage Fee to address market conditions. Any increase in fuel flowage fees will take effect thirty (30) days after the Airport Manager provides written notice to the FBO. The City will make commercially reasonable efforts to reach a mutual agreement with the FBO in determining the amount of any increases in fuel flowage fee. The City will use as a basis of consideration similar fees charged at other airports in the region operating under similar conditions. Lessee's fuel supplier and/or dealer are required to have a valid City business license.

Lessee shall provide the City with records of the end-of-month individual pump meter readings by the 10th day of each month. The City shall have the right to inspect Lessee's fuel flowage records. Should Lessee fail to record and deliver all information required within 10-days of request, a $50 penalty shall be incurred.

3.3 Additional Monthly Rent. If the Lessee reserves from the City any aircraft tie downs that are located on the public portion of the Airport Facilities and not on the Leased Premises, Lessee must pay the monthly rate charged by the City for use of the tie downs. This "Additional Monthly Rent" is due and payable at the same time as the Monthly Base Rent (the total of the monthly rent for the Leased Premises) and shall accompany the Monthly Base Rent payment made by Lessee to the City. The Additional Monthly Rent shall be the monthly rate charged by the City for use of aircraft tie downs on the Public Airport Facilities multiplied by the number of tie downs reserved by the Lessee (see Exhibit A). The Additional Monthly Rent shall be adjusted to coincide with the any change in the rate charged by the City to the public for use of tie downs owned and maintained by the City as part of the Public Airport Facilities.

3.4 Delinquent Payments. Delinquent rental payments, i.e. payments ten (10) or more days late, shall accrue interest payable to the City at the rate of 12% per annum. In addition, the Lessee shall pay a late fee of $500 for each month the payment is late. The City, as a courtesy, sends monthly invoices to Lessee. However, Lessee is responsible for paying all rents, late fees and interest regardless of whether the City sent to Lessee or Lessee received any invoice from the City.

3.5 Damage and Cleaning Deposit. Upon execution of this lease, Lessee shall deposit, unless already on deposit, the amount of $500 to be held for the term of this lease for the purpose of paying any outstanding charges upon termination of this lease including cleaning, damages or unpaid utility bills. If no such charges exist at the termination of the lease, said amount will be

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refunded to the Lessee. Upon termination of the lease, should the cost of cleaning, damages or unpaid utility bills exceed $500, it is understood and agreed that the Lessee is responsible for such charges and shall remit to the City any amount owning upon receipt of notice of amount due.

3.6 Monthly Base Rent Increase.

Commencing on January 1, 2025, said date being the first one (1) year anniversary of the Rent Commencement Date, and on each subsequent one (1) year anniversary thereafter, the Monthly Base Rent shall be adjusted in accordance with this paragraph. The rent increase shall be determined by multiplying the current annual rent by the annual percent change in the Consumer Price Index U.S. City Average—All Items for All Urban Consumers, West (1982 through 84 = 100) , for the month which is two (2) months prior to the month of the anniversary of the Rent Commencement Date ("the Adjustment Month") of the current lease year from the CPI-U for the Adjustment Month of the prior year, as those index figures are determined by the United States Department of Labor, Bureau of Labor Statistics. If there is no such CPI-U figure for the Adjustment Month of any year of the Term, then the Adjustment Month figure of the successor or most nearly comparable successor Index shall be used.

A. The calculation of the annual rent increase shall be as follows:

(1) Determine the current annual rent by multiplying the current monthly rent by 12.

(2) Determine the CPI-U index point change by subtracting the previous year's CPI-U index figure for the Adjustment Month from the current year's CPI-U index figure for the Adjustment Month.

(3) Determine the CPI-U annual percent change by dividing the index point change by the previous year's CPI-U index figure for the Adjustment Month. This quotient can be expressed as a percentage by multiplying by 100.

(4) Determine the additional annual rent by multiplying the current annual rent by the annual percent change.

(5) Determine the new annual rent by adding the additional annual rent to the current annual rent.

(6) Determine the new monthly rent by dividing the new annual rent by 12.

B. For example only, the following is shown for determining the annual percentage change:

CPI-U for current period	133.0
Less CPI-U for previous period	130.0
Equals Index Point Change	3.0
Divided by previous period CPI-U	130.0
Equals	0.023

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Result multiplied by 100	0.023	x	100
Equals percent change	2.3	%	

C. In no event shall the minimum Monthly Base Rent for any year during the Term be less than the minimum Monthly Base Rent for the immediately preceding year. Any annual adjustment shall not exceed three and a half (3.5) percent.

Section 4. USE OF LEASED PREMISES

4.1 Type of Operation. The premises shall be used primarily for the conduct of a Fixed Base Operator (FBO.) These services are to include at a minimum, aircraft maintenance, flight training, and fuel sales. Hours of operation are to be normal business hours (approximately 8:00 a.m. to 5:00 p.m., Monday- Friday), with fuel sales available on a 24-hour, self-serve, basis. Other services may be permitted with Airport Manager's approval.

The Lessee shall maintain and operate all premises covered by this agreement in a first-class manner and shall keep such premises in a safe, clean, orderly and inviting condition at all times, in accordance with the highest standards for this type of operation at other airports in the area.

4.2 Fuel Tanks and Aviation Fuel Pumps. City shall maintain in good condition the pumps, fuel lines and underground storage tanks (or above ground storage tanks once a new fuel farm is constructed). City shall be responsible for regular and required tank testing. However, City shall not be obligated to clean-up fuel spillage nor make any repair or replacement occasioned by an act or omission of the Lessee or its employees, agents, licensees or customers. Lessee shall maintain in good condition the fuel dispensing hoses, nozzles and grounding wire and reels. The City shall be responsible for all costs of the replacement of said item when needed. Lessee shall own and maintain the card reader system on the fuel pump(s). Lessee shall be responsible for daily leak checks in the aviation fuel system and recording and reporting this information as required by the Washington State Department of Ecology. Lessee is also responsible for paying the City's annual chemical hazard fee associated with the fuel system.

4.3 Subletting of Leased Premises. Subletting is approved for office and hangar spaces but not for parking spaces. Any subletting shall be approved by the Airport Manager in writing on a case by case basis, which approval shall not be unreasonably withheld. Lessee will provide the City with a copy of all subleases and a key to the subleased area of the building. At no time shall the Lessee sublet any of the premises without first contacting the Airport Manager.

4.4 Utilities. The Lessee shall pay all utilities, including but not limited to, electrical, water,

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sewerage, internet and storm water utilities; provided, however, that the City shall pay for water and electricity for the 105 Building.

Section 5. TERM

5.1 Term. The term of this lease shall be for five (5) years, commencing on January 1, 2025, subject only to earlier termination in accordance with the terms of this agreement. Lessee may extend the terms of this lease for two (2) additional two (2) year periods, after which a new lease may be negotiated, by providing City written notice of interest to do so, at least one-hundred and twenty (120) days prior to the expiration of the additional lease term, provided Lessee is not in default at the time of giving such notice or on the date of expiration of the original term.

The Term shall not be extended if Lessee is in default of Lessee's obligations under this Lease Agreement, whether monetary or non-monetary, on the date that Lessee gives any such written notice to the City.

5.2 Termination. This Lease Agreement shall be subject to termination by either party, for cause, providing written notice to the other party of at least one-hundred and twenty (120 days) prior to the date on which termination takes place and in accordance with the terms of this Agreement. "Cause" shall be defined as a material breach of any terms or conditions of this Lease which remain uncured within sixty (60) days of notice of the breach. All written notice shall be made pursuant to Section 10.14.

Section 6. CONDITIONS AND ALTERATIONS

6.1 Condition of Premises. The City makes no warranty or guarantee concerning the condition of the Leased Premises, including the physical condition or any condition which may affect the Leased Premises, and it is agreed that the City will not be responsible for any loss, damage or costs which may be incurred by Lessee by reason of any such conditions. Lessee has inspected the premises and agrees to accept the Leased Premises in its present condition. Subject to the provisions of Section 6.3, Lessee agrees also that it will provide at Lessee's own cost and expense any leasehold improvements, furniture, furnishings, fixtures and equipment it deems necessary for its purposes.

6.2 Maintenance of Premises and Operational Costs. Lessee shall maintain and keep in good state of repair the Leased Premises. Unless otherwise provided in this Lease, Lessee shall bear at its own expense all costs of operating the Leased Premises and shall pay, in addition to rental and all other costs connected with the use of the premises, all janitor services and supplies, re-lamping

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the lights, maintenance of all utility fixtures including plumbing, interior electrical wiring, hangar doors and all other services and supplies not furnished by the City, and shall pay for all permits and licenses required by City or other law. Lessee is responsible to provide for adequate pest control, including, but not limited to preventing and eliminating destructive insects, to include bees and wasps, rodents, and reptiles found on the Leased premises.

City shall maintain in good condition and repair, the roof, subflooring, interior and exterior plumbing and wiring and conduits, foundation, floor slab, structural supports (both interior and exterior), curbs, parking lots and aprons, sewers and drains, exterior of buildings and all other aspects of the Leased Premises not assigned to Lessee.

6.3 Future Alterations and Improvements. Lessee shall make no alterations, additions, replacements, or improvements during the term of this lease without obtaining the City's written approval in advance. Upon completion of any such improvements, Lessee shall file with the City a verified statement of final cost of such improvements together with copies of receipted invoices for labor and materials used and also including architectural engineering and design fees. Lessee hereby agrees that all fixtures and improvements shall become the property of the City upon the termination of this Lease through the expiration of the term or for any other reason. Maintenance and operation of such improvements shall be the sole responsibility of Lessee during the term of the lease.

6.4 Signs. Lessee may install signage for identification and advertising purposes with the City’s written consent. All signage must comply with City codes including codes for the Vancouver National Historic Reserve.

6.5 Access to Premises. Lessee shall allow the City's authorized representatives access to the Leased Premises, leased exclusively to Lessee, upon 24 hour notice, for the purpose of examining and inspecting the premises, performing maintenance or for purposes connected with the performance of its obligations hereunder, in the exercise of its governmental functions or in the case of emergency. Lessee shall provide the City with a key to the buildings that are leased exclusively to the Lessee. City agrees that the key will only be used by airport staff and by City maintenance staff who are assigned to work at the airport..

Section 7. <u>LAWS, RULES AND REGULATIONS</u>

7.1 Laws, Ordinances, Etc. The Lessee shall observe and obey all the laws, ordinances, regulations and rules of the federal, state, county and municipal governments which may be applicable to its operations at the airport.

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7.2 Rules and Regulations. The City shall have the right to and shall adopt and enforce reasonable rules and regulations with respect to the use of the airport and related facilities, which Lessee agrees to observe and obey.

7.3 Landlord Tenant Regulations. This Agreement is subject to the applicable statutory provisions of Title 59 RCW, Landlord-Tenant, which by this reference are incorporated herein as fully as though set forth verbatim.

7.4 Temporary Lawful Assumption / Relief of Obligation. The temporary, lawful assumption by the United States Government or any authorized agency thereof of the operation, control or use of the airport and facilities, or any substantial part or parts thereof, which substantially restrict Lessee's use of the premises shall temporarily (during the time of such government use) relieve Lessee of its obligation for rental payment hereunder.

Section 8. VANCOUVER NATIONAL HISTORIC RESERVE

The Lessee acknowledges that Pearson Field is part of the Vancouver National Historic Reserve (VNHR), a federally designated national historic site.

8.1 Fly Neighborly. Pearson Field Airport is adjacent to Fort Vancouver National Historic Site, a unit of the National Park Service. Pilots are encouraged to reduce power as soon as practical for noise abatement and to also avoid flying over the stockade at Fort Vancouver except in the event of an emergency

8.2 Independence Day. The airport may be closed the evening of July 4th in association with the annual Independence Day fireworks. The Airport Manager will notify tenants regarding airport access restrictions, closures and related issues prior to July 4 of each year.

Section 9. INDEMINTY/INSURANCE

9.1 Indemnity. Lessee agrees fully to indemnify, and save and hold harmless, the City**, its officials, employees and agents,** from and against all claims and actions and all expenses incidental to the investigation and defense thereof, based upon or arising out of damage or injuries to third persons or their property, caused by the fault or negligence or alleged fault or negligence of Lessee, its agents or employees, in the use or occupancy by Lessee of the Leased Premises covered by this agreement; provided, however, that Lessee shall not be liable for any injury or damage or loss occasioned by the sole negligence of the City, its agents or employees; and provided further that City shall give to Lessee prompt and reasonable notice of any such claims or actions and Lessee shall have the right to investigate, compromise and mutually defend the same.

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9.2 General Liability Insurance. Lessee agrees to carry and keep in force, general liability insurance covering bodily and personal injury, property damage and contractual liability, and such other insurance as may be necessary to protect the City herein from such claims and actions aforesaid. Without limiting its liability as aforesaid, Lessee agrees to maintain with insurance underwriters satisfactory to the City a standard form of policy of insurance in an amount of not less than $1,000,000 per occurrence. City shall be listed as an additional insured.

9.3 Hangarkeeper's Insurance. Lessee shall procure and at all times keep in force hangarkeeper's legal liability insurance in the amount of $100,000 per aircraft and $500,000 per occurrence. City shall be listed additional insured. Lessee shall provide the City with a copy of this insurance certificate.

9.4 Lessee Responsible for Any and All Damages Resulting from Floods. Lessee hereby acknowledges that the Leased Premises are situated on a 100-year floodplain according to the United States Army Corps of Engineers and the Federal Emergency Management Agency. Accordingly, the Lessee hereby agrees that they will be solely liable for any and all damages that results to any personal property owned by the Lessee from any type of flood that occurs on the Leased Premises. Lessee further agrees to hold harmless and defend the City**, its officials, employees and agents,** from any and all claims, damages, lawsuits and/or appeals for any losses or damages to property, physical and/or psychological injuries that result from of any flood that may occur on the Leased Premises. Lessee understands that they bear full responsibility of taking any and all precautionary measures to prevent or mitigate damages or injuries to Lessee's personal property from flooding on the Leased Premises, and that they can proactively mitigate damages by procuring an insurance policy that will cover such damages and/or injuries from flooding on the Premises.

Section 10. GENERAL PROVISIONS

10.1 Assignment, Transfer and Subletting: The Lessee shall not at any time assign, sublease or transfer this agreement or any of the rights, privileges, uses or interests arising hereunder without first having obtained written approval from the City which approval shall be unreasonably withheld. In the event of any assignment, sublease, or transfer approved by the City, any assignee, sublessee or transferee shall be subject to the same conditions, obligations and terms as set forth herein, and the Lessee shall be responsible for the observance by its assignees, sublessees or transferees of the terms and covenants of this lease. In case of default by any assignee, sublessee or transferee, the Lessee, as well as assignee, sublessee or transferee shall remain responsible for the performance by such assignee, sublessee or transferee of such lease.

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10.2 Redelivery. Upon termination of this lease the Lessee shall have no further right or interest in the Leased Premises and the City shall be entitled to have the Leased Premises returned to it immediately. The Lessee shall remove all improvements constructed or installed by Lessee that the City directs the Lessee to remove from the Leased Premises. The Lessee shall remove such property from the Leased Premises at the direction of the City within sixty (60) days after said termination and restore the premises to their original condition. However, the Lessee hereby agrees that all fixtures shall be the property of the City upon the termination of this Lease unless the City specifically waives the right to own the fixtures in writing. The Lessee further agrees that the City shall have the sole option to waive the provisions of this section either in whole or in part that relate to the Lessee's removal of fixtures and other property constructed or installed by Lessee from the Leased Premises. In the event that the City does not require the Lessee to remove fixtures and/or other property from the Leased Premises, then all buildings and improvements of all types, including fixtures, constructed on the Leased Premises by the Lessee or the City shall become the property of the City upon the termination of this Lease.

10.3 Holding Over. In the event Lessee shall hold over and remain in possession of the Leased Premises after the expiration of this agreement without any written renewal thereof, such holding over shall not be deemed to operate as a renewal or extension of this agreement but shall only create a tenancy from month to month which may be terminated at any time by the City or the Lessee with a minimum of 30 days notice in writing.

10.4 Non-Waiver: Any waiver of any breach of covenants herein contained to be kept and performed by either party hereto shall not be deemed or considered as a continuing waiver and shall not operate to bar or prevent the other party hereto from declaring a forfeiture, termination or cancellation for any succeeding breach either of the same condition or covenant or otherwise. Acceptance or payment of rent shall not be deemed a waiver.

10.5 Attorney's Fees. In the event any action or suit or proceeding is brought to collect the rent or to become due hereunder or any portion thereof or to take possession of the Leased Premises or to enforce compliance with this Agreement or for failure to observe any of the covenants of this

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Agreement, the prevailing party shall be entitled to recover such sum as the court may adjudge reasonable as attorney's fees to be allowed in said suit, action or proceeding, and in the event of an appeal as allowed by the appellate court.

10.6 Default. (A) If Lessee shall fail to pay rent when due, or (B) if Lessee shall fail or neglect to do or perform or observe any of the covenants contained herein on Lessee's part to be kept and performed, and such default under (A) shall continue for a period of not less than ten (10) days or under (B) for a period of not less than thirty (30) days after the City has notified Lessee in writing of Lessee's default, or if Lessee shall be declared to be bankrupt or insolvent according to law, or if any assignment of its property shall be made for the benefit of creditors or if Lessee abandons its operation of the facility for a period of forty-five (45) days, then in any of said cases or events, the City, lawfully may, at its option, immediately or at any time thereafter, without demand or notice terminate this lease and enter into and upon the Leased Premises or any part thereof and repossess the same of its former estate, and expel said Lessee and those claiming by, through, or under it, and remove its effects, if any, forcibly if necessary, without compensation and without being deemed guilty of trespass and without prejudice to any remedy which otherwise might be used for arrears of rent or a preceding breach of covenant.

10.7 Quiet Enjoyment. The City agrees that on payment of the rent and performance of the covenants and agreements on the part of the Lessee to be performed hereunder, Lessee shall peaceably have and enjoy the Leased Premises and all rights and privileges of Pearson Field, its appurtenances and facilities granted herein.

10.8 Destruction of Premises. In the event the premises are totally destroyed by fire or other casualty, the City may, at its option, terminate this lease, or it may rebuild the building and/or facilities situated on said premises and the rent shall abate between the time of such destruction and the time the building and/or facilities are rebuilt and said premises are ready for occupancy, or in the event of a partial destruction of said premises by fire or other casualty, the City at its option may terminate this lease or rebuild and repair said premises, and in such case the rent shall proportionately abate during the time between such partial destruction and repair or rebuilding thereof; provided, that in the events aforesaid, the City shall give notice to the Lessee of the option it shall exercise within thirty (30) days after the event giving rise thereto.

10.9 Subordination. This Lease shall be subordinate to the provisions of any agreement between the City and the United States relative to the operation or maintenance of the airport, the

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execution of which has been required as a condition precedent to the expenditure of federal funds for the development of the airport.

10.10 Non-Discrimination. Pursuant to Title VI of the Civil Rights Act of 1964, by Part 15 of the Federal Aviation Regulations and by the City of Vancouver Charter, Article VII, Section 7.10 , Lessee agrees it will not discriminate on the basis of age, race, color, national origin, ethnicity, creed, religious opinions or affiliations, sexual orientation, gender identity/expression, pregnancy, marital status, family status, mental or physical disability, military status, status as a veteran or any other protected status, and will not permit discrimination against any person or group of persons in any manner prohibited by Part 15 of the Federal Aviation Regulations. The City reserves the right to take such action as the United States may direct to enforce the provisions of this covenant, or as it may find necessary.

10.11 Interpretation of Lease. Nothing in this Lease shall be construed or interpreted in any manner whatsoever as limiting, relinquishing, or waiving of any rights or ownership enjoyed by the City in the airport leased property, or in any manner waiving or limiting its control over the operation, maintenance, etc., of airport property except as it specifically provided for herein or in derogation of such governmental rights as the City possess.

10.12 Invalid Provisions. In the event any covenant, condition, or provision herein contained is held to be invalid by any court of competent jurisdiction, the invalidity of any such covenant, condition or provision shall in no way effect any other covenant, condition or provision herein contained; provided that the invalidity of such covenant, condition or provision does not materially prejudice either the City or Lessee in its respective rights and obligations contained in the valid covenants, conditions or provisions of this Lease.

10.13 Successors and Assigns Bound by Covenants. All of the terms, covenants and agreements herein contained shall be binding upon and shall inure to the benefit of the legal representative, successors, and assigns of the respective parties hereto.

10.14 Notices: Notices to the city, provided for herein, shall be sufficient if sent by certified mail, postage prepaid, addressed to:

Pearson Field Airport Manager
City of Vancouver, P.O. Box 1995,
Vancouver, Washington 98668

Docusign Envelope ID: DA632212-CDC3-48EA-82C4-2755D82B2A1B

Notices to the lessee shall be sufficient if sent by certified mail, postage prepaid, addressed to:

Bill Gough, President
101 E Reserve St
Vancouver, WA 98661

10.15 Cessation of Operation. In the event Pearson Field permanently ceases to be operated as an airport during the term of this lease, City and Lessee's mutual obligations hereunder will cease. Nothing herein shall be construed to interfere with the City's right to cease, for a valid governmental purpose, such airport operation.

10.16 Entire Agreement. This Agreement constitutes the entire agreement of the parties and cannot be modified or changed unless done so in writing and signed by the parties to this Agreement.

EXECUTED this 16th day of December 2024 .

CITY OF VANCOUVER,
a municipal corporation

Signed by:
C084EA446CF9483...
Lon Pluckhahn, City Manager

AERO MAINTENANCE, INC.
a Washington corporation

Signed by:
Bill Gough
BEFD191861124D4...
Bill Gough, President

Attest:

DocuSigned by:
Natasha Ramras
493E940414AE4BD...
Natasha Ramras, City Clerk

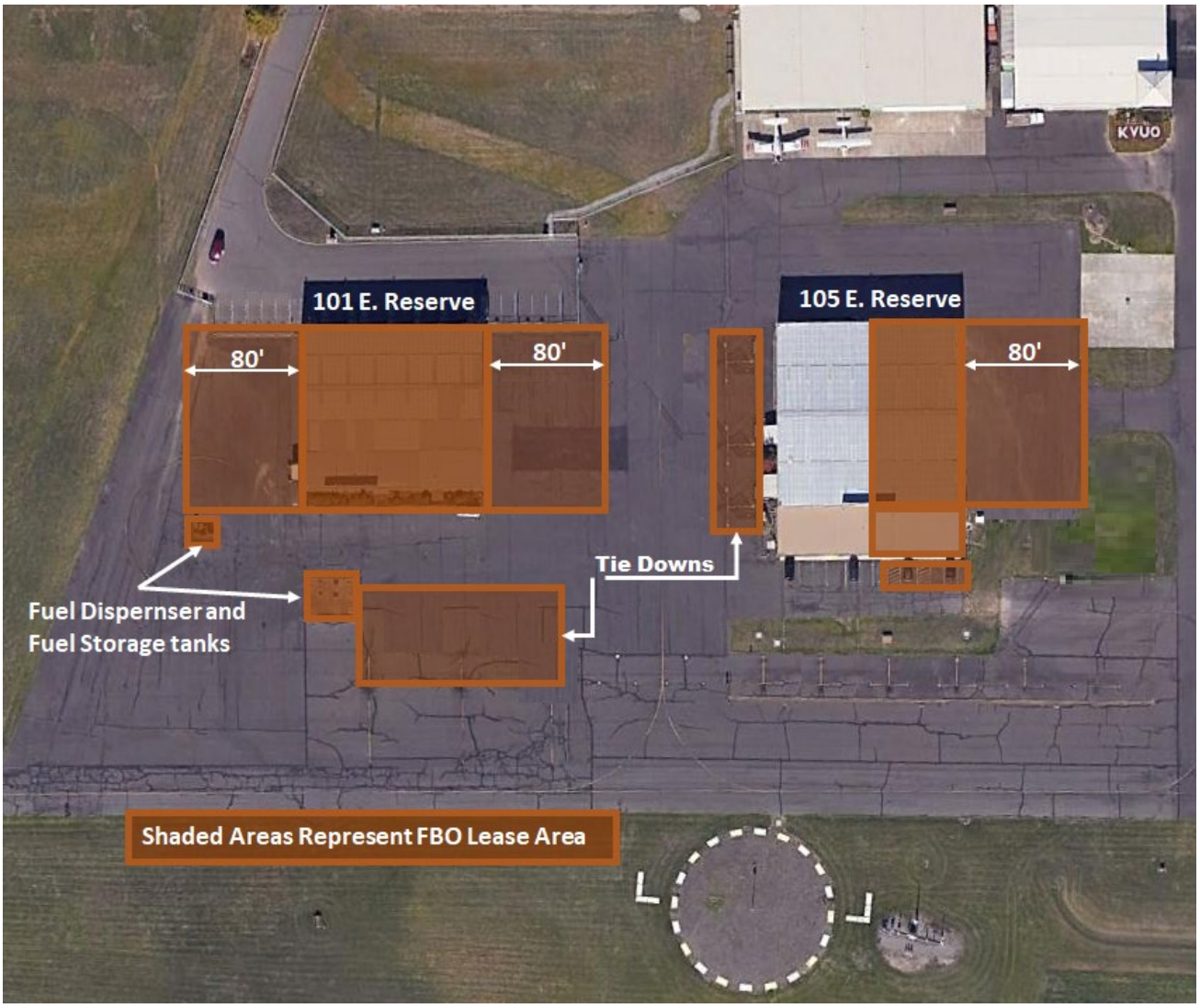
Approved as to form:

DocuSigned by:
Philip Gigler
8D34A1EDF06A4B6...
Philip Gigler, Asst. City Attorney

Docusign Envelope ID: DA632212-CDC3-48EA-82C4-2755D82B2A1B

EXHIBIT A

101 East Reserve Street & 105 East Reserve Street



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Lease Agreement for Fixed Base Operations at Pearson Field Airport
AMENDMENT No. 1

This First Amendment ("Amendment No. 1") to that certain Lease Agreement for Fixed Base Operations at Pearson Field Airport executed on December 16, 2024, (the "Agreement") is entered into between the City of Vancouver, a Washington municipal corporation ("City" or "Lessor") and Aero Maintenance, Inc., a Washington profit corporation ("Lessee"), to amend specified provisions of the Agreement, and is effective on the day it has been signed by all parties. This Amendment No. 1 and the Agreement together constitute the Lease Agreement for Fixed Base Operation at Pearson Field Airport, and terms that are capitalized but undefined in this Amendment No. 1 will have the meanings given them in the Agreement.

Construction on the building located at 105 East Reserve Street is scheduled to begin in early 2026. The purpose of this Amendment No. 1 is to remove the office space and parking area located at 105 East Reserve Street from the Agreement when construction commences on that building. This Amendment No. 1 also updates the fuel flowage user fee and clarifies inclusion of specific tie down spaces in the Agreement.

Newly defined terms are as follows: the date on which construction commences on the office space in the building located at 105 East Reserve Street, anticipated in early 2026 ("Construction Commencement"); the date on which the FBO Lease terminates pursuant to Section 5.1 of the Agreement ("Lease Expiration").

This Amendment No. 1 amends the original Agreement as follows:

Section 2.2 Property 2 – 105 Building and Grounds is amended as follows:

> Upon Construction Commencement on the building located at 105 E Reserve St, all of the approximately 1,200 square feet of office space referenced in Subsection A and reflected in Exhibit A will be excluded from this Agreement through Lease Expiration, including any extensions of the Agreement.
>
> Upon Construction Commencement on the building located at 105 E Reserve St, the automobile parking spaces described in Subsection B and reflected in Exhibit A to the south of the building located at 105 E Reserve St will be excluded from this Agreement through Lease Expiration, including any extensions of the Agreement.

Docusign Envelope ID: 72123863-AB93-4894-A4D2-12692B160CD9

Section 3.1 Base Rent is amended as follows:

Upon Construction Commencement on the building located at 105 East Reserve Street, rental payments for all of the approximately 1200 square feet of office space located in the 105 East Reserve Street building shall cease and will no longer be due or collected through Lease Expiration, including any extensions of the Agreement. If construction does not begin on the first day of a month, rent for the final month of office space located at 105 East Reserve Street will be prorated for the number of days in the month prior to Construction Commencement. The prorated payment will be calculated by dividing the number of days in the month prior to Construction Commencement by the total number of days in the month, and then by multiplying the total monthly rent by that amount.

Section 3.2 Fuel Flowage User Fee is amended as follows:

30 days after the effective date of this amendment, the fuel flowage fee shall be Twelve Cents ($0.12) per gallon.

Section 3.3 Additional Monthly Rent is amended and restated as follows:

If the Lessee utilizes any aircraft tie-down spaces located on the public portion of the Airport Facilities other than the eight (8) designated tie-down spaces within the shaded "Lease Area" shown in Exhibit A (five located south of the building located at 101 E Reserve St and three located west of the building located at 105 E Reserve St), the Lessee shall be responsible for all fees, charges, or assessments charged by the City for such additional tie-down use.

Exhibit A is replaced with the attached **Amended Exhibit A**, which amends **Exhibit A** as follows:

Upon Construction Commencement on the office space area of the building located at 105 East Reserve Street, the shaded area reflecting the office space located at the south end of the building located at 105 East Reserve Street and the parking area/spaces to the south of the 105 East Reserve Street building shall no longer be considered lease areas. This will continue through Lease Expiration, including any extensions of the Agreement. Further, this amendment clarifies the inclusion of the eight (8) tie-down spaces and their location.

Effective Date: This amendment will be effective on the day it has been signed by all parties.

Entire Agreement: All unamended terms in the Agreement remain in full force and effect. This Amendment, together with the Agreement, is the entire agreement between the Parties, and supersedes any other agreement or discussion between them, whether written or oral in nature.

Docusign Envelope ID: 72123863-AB93-4894-A4D2-12692B160CD9

CITY OF VANCOUVER
A Washington municipal corporation

Signed by:
02BF78E9C0DB4DB...
Lon Pluckhahn, City Manager

3/24/2026
Date

Attest:

Signed by:
Lisa Brandl
02BF78E9C0DB4DB...
Lisa Brandl, Acting City Clerk

Approved as to form:

DocuSigned by:
Nena Cook
A17C6F2FA2AC4D4...
Nena Cook, City Attorney

LESSEE:
Aero Maintenance, Inc.

Signed by:
Bill Gough
E0621A6C0D9B455...
Signature

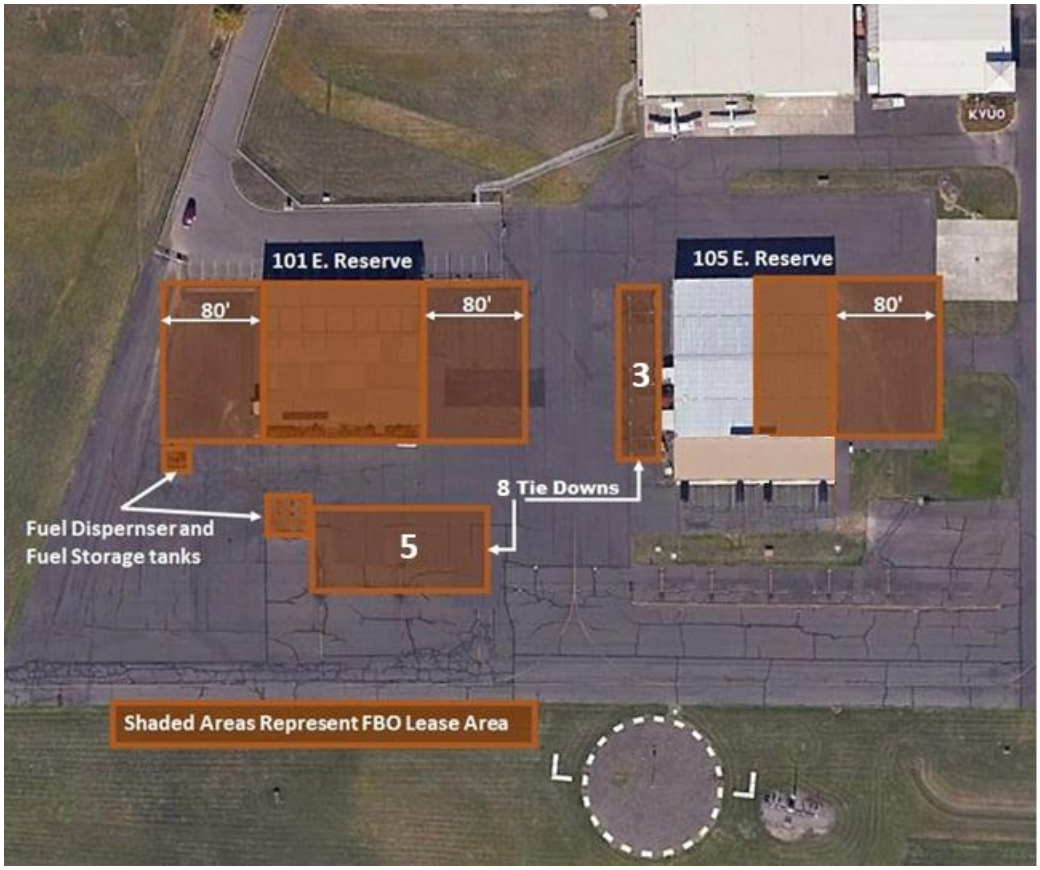
Bill Gough / President
Printed Name /Title

3/24/2026
Date

Docusign Envelope ID: 72123863-AB93-4894-A4D2-12692B160CD9

AMENDED EXHIBIT A

101 East Reserve Street & 105 East Reserve Street



TERMINAL RENOVATION PROJECT - PEARSON FIELD

CITY OF VANCOUVER

415 WEST 6TH STREET
VANCOUVER, WA 98661

TABLE OF CONTENTS

SHEET NUMBER	SHEET NAME	REVISION: CURRENT REVISION	REVISION: CURRENT REVISION DATE
GENERAL			
T1.00	TITLE SHEET	1	11/18/25
ARCHITECTURAL			
AD1.01	DEMOLITION PLAN	1	11/18/25
A0.01	CODE REVIEW	2	11/18/25
A0.02	ACCESSIBILITY DETAILS	2	11/18/25
A0.03	ACCESSIBILITY DETAILS	1	11/18/25
A1.01	FLOOR PLAN	2	11/18/25
A3.01	ELEVATIONS	1	11/18/25
A4.01	BUILDING SECTIONS	1	11/18/25
A4.02	WALL SECTIONS	1	11/18/25
A5.01	DOOR SCHEDULE AND DETAILS	1	11/18/25
A5.02	WINDOW AND STOREFRONT SCHEDULE	1	11/18/25
A5.03	WINDOW AND STOREFRONT DETAILS	1	11/18/25
A6.01	WALL TYPE SCHEDULE AND DETAILS	1	11/18/25
A6.02	EXTERIOR WALL DETAILS	1	11/18/25
A8.01	ENLARGED RESTROOM PLAN AND ELEVATIONS	2	11/18/25
A8.02	CASEWORK DETAILS	2	11/18/25
A9.01	REFLECTED CEILING PLAN	1	11/18/25
A9.02	CEILING DETAILS	1	11/18/25
A10.01	FLOOR AND WALL FINISH PLANS	1	11/18/25
STRUCTURAL			
S0.01	GENERAL NOTES & SPECIAL INSPECTIONS	0	9/12/25
S1.01	FOUNDATION & FRAMING PLANS	0	9/12/25
S2.01	FOUNDATION & FRAMING DETAILS	0	9/12/25
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M0.1	BASIS OF DESIGN AND TABULATED DATA	0	9/12/25
M0.2	MECHANICAL SCHEDULES	0	9/12/25
M0.3	LOAD AND VENTILATION CALCS	0	9/12/25
M2.01	MECHANICAL FLOOR PLAN - HVAC	0	9/12/25
M3.01	MECHANICAL FLOOR PLAN - ZONING	0	9/12/25
M4.01	MECHANICAL FLOOR PLAN - REFRIGERANT PIPING	0	9/12/25
M9.01	MECHANICAL DETAILS	0	9/12/25
M9.02	MECHANICAL DETAILS	0	9/12/25
MD2.01	MECHANICAL DEMO FLOOR PLAN - HVAC	0	9/12/25
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E0.01	ELECTRICAL LEGEND AND ABBREVIATIONS	0	9/12/25
E0.02	ELECTRICAL CALCULATION TABLES AND NOTES	0	9/12/25
E0.03	MECHANICAL & PLUMBING EQUIPMENT CONNECTION SCHEDULE	0	9/12/25
E0.04	ELECTRICAL CALCULATIONS	0	9/12/25
E0.05	ENERGY CHECKLIST	0	9/12/25
E0.06	ENERGY CHECKLIST	0	9/12/25
E0.07	ENERGY CHECKLIST	0	9/12/25
E2.01	ELECTRICAL FLOOR PLAN - POWER	0	9/12/25
E5.01	ELECTRICAL SINGLE LINE DIAGRAM	0	9/12/25
E5.02	ELECTRICAL PANELBOARD SCHEDULES	0	9/12/25
E9.01	ELECTRICAL DETAILS	0	9/12/25
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EL0.01	ELECTRICAL BASIS OF DESIGN & LUMINAIRE SCHEDULE	0	9/12/25
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P0.02	PLUMBING SCHEDULES	0	9/12/25
P2.00	UNDERGROUND PLUMBING PLAN	0	9/12/25
P2.01	PLUMBING FLOOR PLAN	0	9/12/25
P6.01	PLUMBING ENLARGED PLANS	0	9/12/25
PD2.01	PLUMBING DEMO FLOOR PLAN	0	9/12/25

PROJECT SCOPE OF WORK

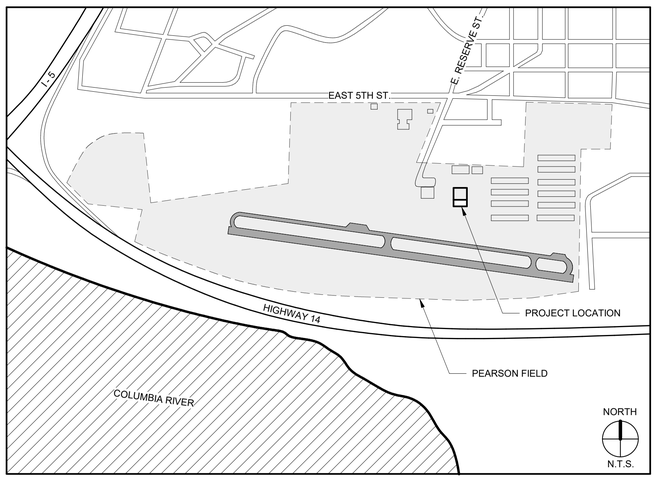
THE PROJECT IS LOCATED AT THE EXISTING PEARSON FIELD AIRPORT LOCATED AT 101 E RESERVE ST, VANCOUVER, WA 98661. THE PROJECT IS A COMPLETE INTERIOR RENOVATION OF THE EXISTING PILOT'S LOUNGE AND OFFICE AREA, AS WELL AS RESIDING OF THE EXTERIOR WALL AND REPLACEMENT OF WINDOWS IN THE PROJECT AREA. THE AREA OF WORK IS APPROXIMATELY 3,000 SF AND IS ADJACENT TO APPROXIMATELY 15,000 SF OF HANGAR SPACE. NO WORK IS EXPECTED IN THE HANGAR.

THE RENOVATED SPACE WILL INCLUDE A PILOT'S LOUNGE MULTIPURPOSE ROOM, FLIGHT PLANNING ROOM, PILOT QUIET ROOM, TOILET ROOMS, OFFICES, KITCHENETTE, CIRCULATION SPACE, AND STORAGE/UTILITY AREAS.

PROJECT GENERAL NOTES

- CONTRACTOR IS RESPONSIBLE FOR MAINTAINING A COMPLETE SET OF CONTRACT DOCUMENTS AND PROVIDING THE DOCUMENTS TO SUBCONTRACTORS. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT/ENGINEER PROMPTLY UPON DISCOVERY OF MISSING DOCUMENTS.
- THE SPECIFICATIONS ARE PART OF THE CONTRACT DOCUMENTS. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION NOT SHOWN ON DRAWINGS.
- CONTRACTOR IS RESPONSIBLE FOR THOROUGHLY REVIEWING ALL CONTRACT DOCUMENTS IN THEIR ENTIRETY PRIOR TO PROVIDING FINAL PRICING OR A BID FOR THE PROJECT. THE CONTRACTOR SHALL CLEARLY NOTE ANY DEVIATIONS TO THE SCOPE OF WORK DEFINED IN THE DRAWINGS AND SPECIFICATIONS ON THE CONTRACTOR'S BID.
- CONTRACTOR IS RESPONSIBLE FOR COORDINATING WORK BETWEEN DISCIPLINES. NOTIFY THE ARCHITECT IMMEDIATELY UPON DISCOVERY OF CONFLICTS BETWEEN DISCIPLINES.
- THE ENTIRE CONTRACT DOCUMENTS SHALL BE USED TO CONSTRUCT THE BUILDING. VARIOUS TRADES MAY NEED TO CROSS-REFERENCE DIFFERENT DISCIPLINE DRAWINGS TO OBTAIN APPROPRIATE INFORMATION TO CONSTRUCT THE PROJECT.
- THE CONSTRUCTION DRAWINGS REPRESENT THE FINISHED PROJECT. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR CONSTRUCTION MEANS & METHODS, INLCUDING BUT NOT LIMITED TO: BRACING OF EXISTING STRUCTURE, SHORING OF EARTHWORK, SHORING FOR TEMPORARY LOADS, SEQUENCE OF CONSTRUCTION, SAFETY, WEATHER-RELATED OPERATIONS, AND CONSTRUCTION TECHNIQUES. THE CONTRACTOR'S BID SHALL INCLUDE ALL COSTS RELATED TO MEANS & METHODS UNLESS CLEARLY NOTED AS AN EXCLUSION.
- TYPICAL DETAILS MAY NOT BE REFERENCED FROM PLANS, BUT APPLY UNLESS OTHERWISE NOTED.
- WHERE DISCREPANCIES OCCUR BETWEEN DRAWINGS, GENERAL NOTES, AND SPECIFICATIONS, THE GREATER REQUIREMENTS WILL GOVERN. NOTIFY ARCHITECT/ENGINEER OF DISCREPANCIES.
- SUPPLIER OF ENGINEERED PRODUCTS (SUCH AS STEEL JOISTS, STAIRS, PRECAST CONCRETE, STOREFRONT WINDOWS, ELEVATORS, ETC.) SHALL BE RESPONSIBLE FOR COMPLETE DESIGN AND ENGINEERING OF THE PRODUCTS. SUPPLIER SHALL REVIEW THE ENTIRE CONTRACT DOCUMENTS AND PROVIDE A PRODUCT OR SYSTEM THAT IS FULLY FUNCTIONAL, MEETS PROJECT REQUIREMENTS, AND COMPLIES WITH APPLICABLE CODES.

VICINITY MAP



CITY OF VANCOUVER — OWNER

CONTACT: MEREDITH FOX
101 E. RESERVE ST.
VANCOUVER, WA 98661
PHONE: 360-904-9007
E-MAIL: MEREDITH.FOX@CITYOFVANCOUVER.US

CENTURY WEST ENGINEERING — PRIME CONSULTANT

CONTACT: BRYAN CONDON
5500 MEADOWS RD.
SUITE 250
LAKE OSWEGO, OR 97035
PHONE: 765-532-8320
E-MAIL: BCONDON@CENTURYWEST.COM

LIVERMORE ARCHITECTURE & ENGINEERING, INC. — ARCHITECTURAL, STRUCTURAL ENGINEERING

ARCHITECTURE:
CONTACT: GEOFF GRUMMON-BEALE
1500 SW FIRST AVE.
SUITE 240
PORTLAND, OR 97201
PHONE: 503-892-3002 EXT 103
E-MAIL: GEOFFG@LIVERMOREAE.COM

STRUCTURAL ENGINEERING:
CONTACT: MIRA VOROBETS
1500 SW FIRST AVE, SUITE 240
PORTLAND, OR 97201
PHONE: 503-892-3002 EXT 109

GLUMAC — MECHANICAL/ ELECTRICAL PLUMBING ENGINEERING

CONTACT: BRIDGET PANIAGUA
900 SW 5TH AVE.
SUITE 1600
PORTLAND, OR 97204
PHONE: 503-345-6263
E-MAIL: BPANIAGUA@GLUMAC.COM

DEFERRED SUBMITTALS

NOTE: *COORDINATE THE DEFERRED SUBMITTAL LIST WITH STRUCTURAL & MEP REQUIREMENTS.*

THE FOLLOWING ITEMS ARE DEFERRED SUBMITTALS TO BE SUBMITTED TO THE AUTHORITY HAVING JURISDICTION AT A LATER DATE.

- SEE STRUCTURAL GENERAL NOTES FOR ADDITIONAL DEFERRED SUBMITTALS
- SEE MECHANICAL FOR ADDITIONAL DEFERRED SUBMITTALS

FOR ITEMS MARKED "BY CONTRACTOR," CONTRACTOR SHALL PROVIDE COMPLETE DESIGN DRAWINGS AND DOCUMENTATION STAMPED BY A LICENSED ENGINEER. DRAWINGS SHALL BE SUBMITTED TO ARCHITECT FOR REVIEW. FOLLOWING REVIEW BY THE ARCHITECT, CONTRACTOR SHALL BE RESPONSIBLE FOR SUBMITTING DRAWINGS AND DOCUMENTATION TO THE AUTHORITY HAVING JURISDICTION AND FOR ANY REQUIRED PLAN CHECK OR PERMIT FEES.

BY SEPARATE PERMIT

- NONE

0	9/12/25	ISSUE FOR PERMIT
1	11/18/25	ISSUE FOR CONSTRUCTION

22012759 REGISTERED ARCHITECT
GEOFF GRUMMON-BEALE
STATE OF WASHINGTON

LIVERMORE ARCHITECTURE & ENGINEERING, INC.
1500 SW First Avenue, Suite 240
Portland, Oregon 97201
Phone: 503-892-3002
www.livermoreae.com

Livermore A&E
Job No:223073.00

ISSUE FOR CONSTRUCTION

FAA GRANT #3-53-0139-022-2026

PEARSON FIELD
TERMINAL RENOVATION PROJECT
PEARSON FIELD
101 EAST RESERVE ST.
VANCOUVER, WA 98661

DRAWING TITLE:
TITLE SHEET

DRAWN BY: MAW
CHECKED BY: GGB

T1.00

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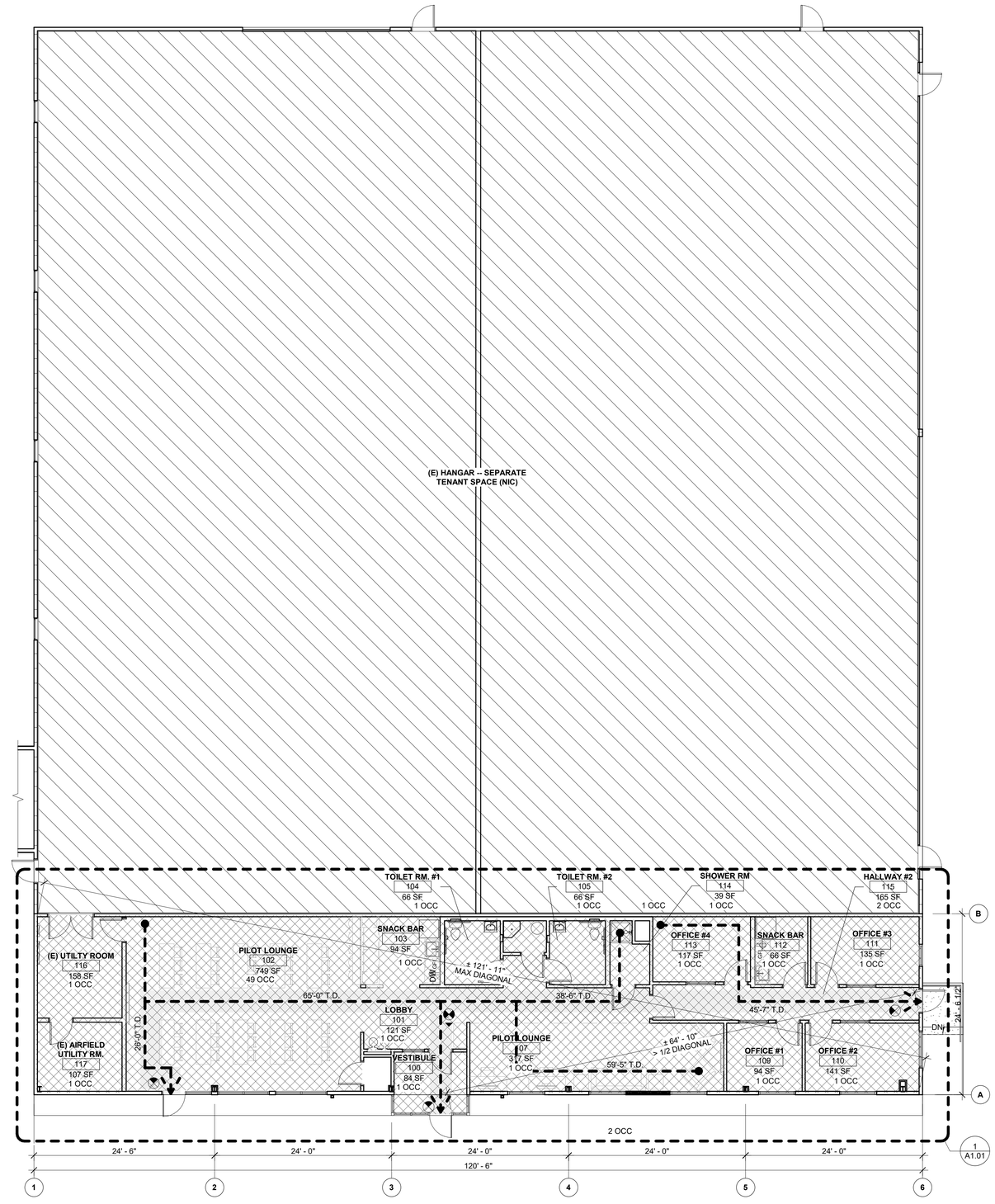

NORTH

1 A0.01 **CODE REVIEW PLAN / OVERALL FLOOR PLAN**

1/8" = 1'-0"

CODE ANALYSIS

APPLICABLE CODES

BUILDING CODE	2021 INTERNATIONAL BUILDING CODE (IBC) AND WAC 51-50
EXISTING BUILDING CODE	2021 WASHINGTON STATE EXISTING BUILDING CODE
ELECTRICAL CODE	2023 NATIONAL ELECTRICAL CODE
ENERGY CODE	2021 WASHINGTON STATE ENERGY CODE, COMMERCIAL WAC 51-11C
MECHANICAL CODE	2021 INTERNATIONAL MECHANICAL CODE AND WAC 51-52
PLUMBING CODE	2021 UNIFORM PLUMBING CODE AND WAC 51-56
FIRE CODE	2021 INTERNATIONAL FIRE CODE AND WAC 51-54A
ACCESSIBILITY CODE	ICC/ANSI A117.1-2017 ACCESSIBILITY AND WAC 51-50-1101.2
JURISDICTION	CITY OF VANCOUVER, WA

OCCUPANCY CLASSIFICATION

OCCUPANCY GROUPS	304.1	B (BUSINESS), S-1 (AIRCRAFT HANGAR)
OCCUPANCY SEPARATIONS	508	NONE (NON-SEPARATED MIXED USE PER 508.3)

CONSTRUCTION TYPE

CONSTRUCTION TYPE	602	V-B

FIRE PROTECTION SYSTEMS

		REQUIRED	PROVIDED
AUTOMATIC SPRINKLER SYSTEM	903	NO	NO
FIRE ALARM	907	NO	NO

FIRE RESISTIVE REQUIREMENTS

STRUCTURAL FRAME			0 HR		
EXTERIOR BEARING WALLS			0 HR		
INTERIOR BEARING WALLS			0 HR		
EXTERIOR NON-BEARING WALLS (TABLE 602)					
	WALLS	DIST. TO PROPERTY LINE	FIRE RATING	PROTECTED OPENINGS REQ'D	FIRE RATING REQ'D (OPENINGS)
	NORTH	> 30'	0 HR	NA	NA
	SOUTH	> 30'	0 HR	NA	NA
	EAST	> 30'	0 HR	NA	NA
	WEST	> 30'	0 HR	NA	NA
INTERIOR NON-BEARING WALLS & PARTITIONS			0 HR	NA	NA
FLOORS			0 HR	NA	NA
ROOFS			0 HR	NA	NA
CORRIDORS			1 HR	NA	NA
NOTE: CORRIDOR IS NOT REQUIRED TO BE RATED WHERE IT SERVES AN OCCUPANT LOAD OF 30 OR LESS , PER 1020.2					

EXITS

EXITS REQUIRED PER STORY	1006	2
MAXIMUM TRAVEL DISTANCE	1017.2	200 FEET (B OCCUPANCY, NO SPRINKLER SYSTEM)
COMMON PATH OF EGRESS TRAVEL	1006.2.1	100 FEET (B OCCUPANCY, NO SPRINKLER SYSTEM)

PLUMBING SYSTEM

USE GROUP	OCCUPANTS		WATER CLOSETS		LAVATORIES		DRINKING FOUNTAINS	NOTES
	MALE	FEMALE	MALE	FEMALE	MALE	FEMALE		
B	39	39	0.08	0.08	0.05	0.05	2 (HI-LOW)	-
TOTAL PROVIDED			1	1	1	1	2 (HI-LOW)	-
NOTES:								

OCCUPANT LOAD

ROOM #	ROOM NAME	OCCUPANCY	AREA	SF/OCC	OCCUPANTS
100	VESTIBULE	B	84 SF	150 SF	1
101	LOBBY	B	121 SF	15 SF	9
102	PILOT LOUNGE	B	749 SF	15 SF	50
103	SNACK BAR	B	94 SF	150 SF	1
104	TOILET RM. #1	B	66 SF	150 SF	1
105	TOILET RM. #2	B	66 SF	150 SF	1
106	HALL WAY #1	B	145 SF		
107	PILOT LOUNGE	B	317 SF	150 SF	3
109	OFFICE #1	B	94 SF	150 SF	1
110	OFFICE #2	B	141 SF	150 SF	1
111	OFFICE #3	B	135 SF	150 SF	1
112	SNACK BAR	B	66 SF	150 SF	1
113	OFFICE #4	B	117 SF	150 SF	1
114	SHOWER RM	B	39 SF	300 SF	1
115	HALLWAY #2	B	165 SF	150 SF	2
116	(E) UTILTY ROOM	B	158 SF	300 SF	1
117	(E) AIRFIELD UTILITY RM.	B	107 SF	300 SF	1
118	UTILITY RM		25 SF		
FIRST FLOOR TOTAL			2690 SF		76

ENERGY CODE REQUIREMENTS

(2021 WASHINGTON STATE ENERGY CODE - COMMERCIAL (CHAPTER 51-11C WAC)

CLIMATE ZONE: 4C	CLARK COUNTY		
	REQUIRED	PROVIDED	COMMENTS
(E) WOOD FRAMED BUILDING EXTERIOR WALLS	MAX U-0.051 R-13+ R-7.5ci std	R-19 BATT INSULATION R-15	(E) 2X4 FRAME WALL W/ NEW BATT INSULATION CONTINUOUS INSULATION IS INFEASIBLE DUE TO EXISTING WALL CONFIGURATION
ENTRANCE DOOR	U-0.60	U-0.60	THERMALLY BROKEN STORFRONT DOOR
OPERABLE DOOR	U-0.36	U- 0.36	THERMALLY BROKEN HOLLOW METAL DOOR
FIXED VERTICAL FENESTRATION	U-0.34	U-0.34	THERMALLY BROKEN STORFRONT

CODE PLAN LEGEND

Room name
101 — ROOM NAME AND NUMBER

EGRESS ROUTE

T.D. — TRAVEL DISTANCE

EMERGENCY EXIT SIGN. SHADED AREA INDICATES ILLUMINATED FACE. ARROW INDICATES EGRESS DIRECTION -- SEE ELECTRICAL FOR ADDITIONAL INFORMATION.

EGRESS PATH -- PROVIDE EMERGENCY LIGHTING W/ 1 FOOTCANDLE MIN. AVERAGE

OCCUPANCY GROUPS

B

S-1 (AREA NIC)

0	9/12/25	ISSUE FOR PERMIT
1	11/1/25	PERMIT COMMENTS
2	11/18/25	ISSUE FOR CONSTRUCTION

22012759 REGISTERED ARCHITECT
GEOFF GRUMMON-BEALE
STATE OF WASHINGTON

LIVERMORE ARCHITECTURE & ENGINEERING, INC.
1500 SW First Avenue, Suite 240
Portland, Oregon 97201
Phone: 503-892-3002
www.livermorellae.com

Livermore A&E
Job No:223073.00

CITY OF Vancouver WASHINGTON

ISSUE FOR CONSTRUCTION

FAA GRANT #3-53-0139-022-2026

PEARSON FIELD
TERMINAL RENOVATION PROJECT
PEARSON FIELD
101 EAST RESERVE ST.
VANCOUVER, WA 98661

DRAWING TITLE:
CODE REVIEW

DRAWN BY: MAW
CHECKED BY: GGB

A0.01

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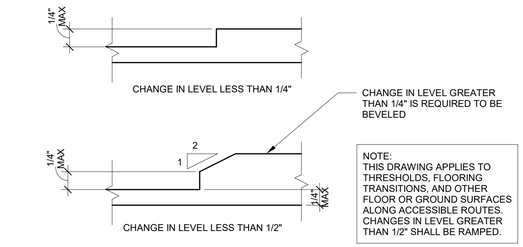
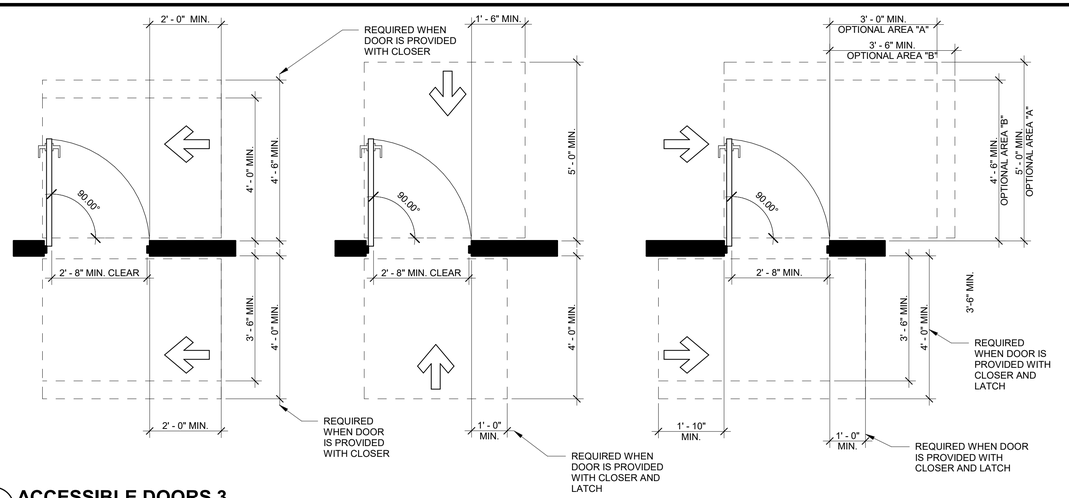


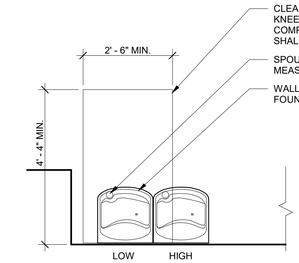
1 CHANGE IN LEVEL
A0.02 12" = 1'-0"



2 ACCESSIBLE DOORS 3
A0.02 1/2" = 1'-0"

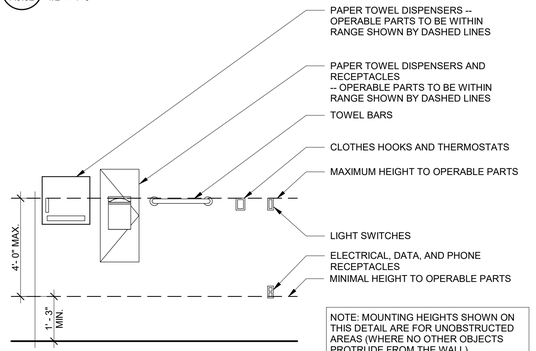
GENERAL ACCESSIBILITY NOTES

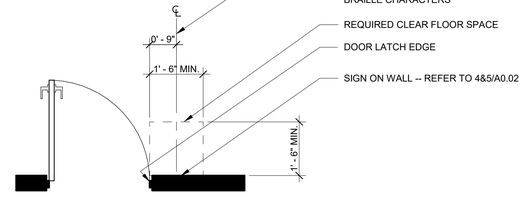
- ACCESSIBLE CONSTRUCTION SHALL COMPLY WITH THE AMERICANS WITH DISABILITIES ACT (ADA) ACCESSIBILITY GUIDELINES (ADAAG), ANSI A117.1, AND ANY APPLICABLE STATE AND LOCAL ACCESSIBILITY CODES.
- THE DRAWINGS SHOWN ON THIS SHEET ARE FOR REFERENCE ONLY. CONSULT THE CODES AND STANDARDS LISTED ABOVE FOR MORE INFORMATION ON ACCESSIBILITY REQUIREMENTS.
- UNLESS OTHERWISE INDICATED, ALL AREAS OF BUILDING SHALL BE ON AN ACCESSIBLE ROUTE.
- IN TOILET ROOMS, AT LEAST ONE OF EACH TYPE OF FIXTURE SHALL BE ACCESSIBLE.
- PROVIDE CLEAR FLOOR AREAS AT EACH ACCESSIBLE FIXTURE. PROVIDE A 5'-0" TURNING RADIUS IN TOILET ROOMS AND KITCHENS.



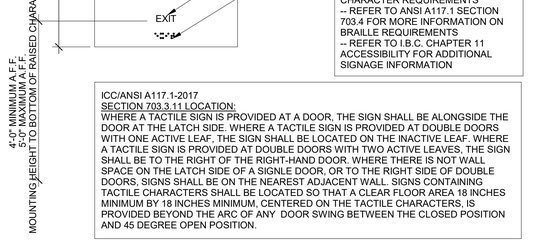
DRINKING FOUNTAIN PLAN VIEW

10 ACCESSIBLE DRINKING FOUNTAIN
A0.02 1/2" = 1'-0"

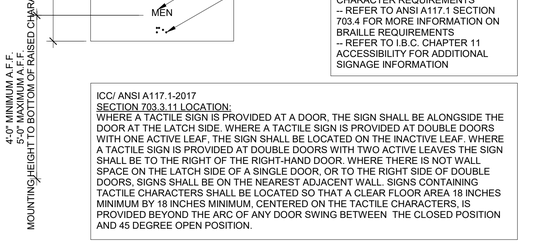




3 FLOOR CLEARANCE AT ACCESSIBLE SIGNAGE
A0.02 1/2" = 1'-0"

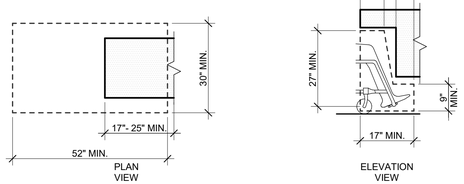


4 EXIT ACCESSIBLE IDENTIFICATION
A0.02 3" = 1'-0"

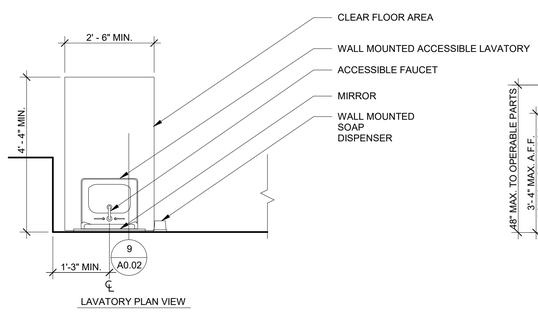


5 TOILET ROOM IDENTIFICATION
A0.02 3" = 1'-0"

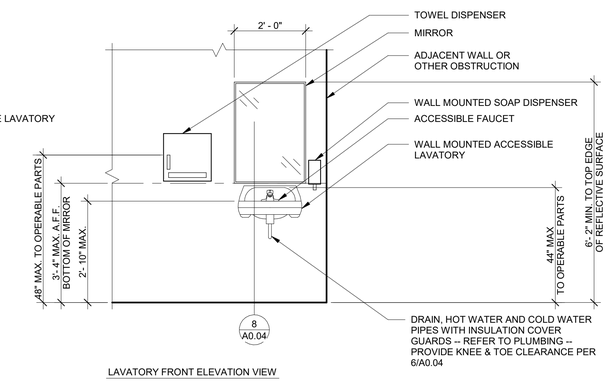
6 ACCESSIBLE FIXTURES AND FEATURES
A0.02 1/2" = 1'-0"



7 KNEE AND TOE CLEARANCE
A0.02 1/2" = 1'-0"

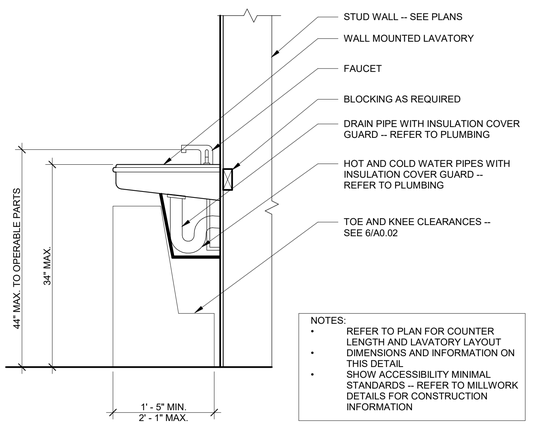


LAVATORY PLAN VIEW



LAVATORY FRONT ELEVATION VIEW

8 ACCESSIBLE LAVATORIES AND SINK
A0.02 1/2" = 1'-0"



9 SECTION AT ACCESSIBLE SINK
A0.02 1" = 1'-0"

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CITY OF Vancouver WASHINGTON

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PEARSON FIELD
101 EAST RESERVE ST.
VANCOUVER, WA 98661

DRAWING TITLE:
ACCESSIBILITY DETAILS

DRAWN BY: MAW
CHECKED BY: GGB

A0.02

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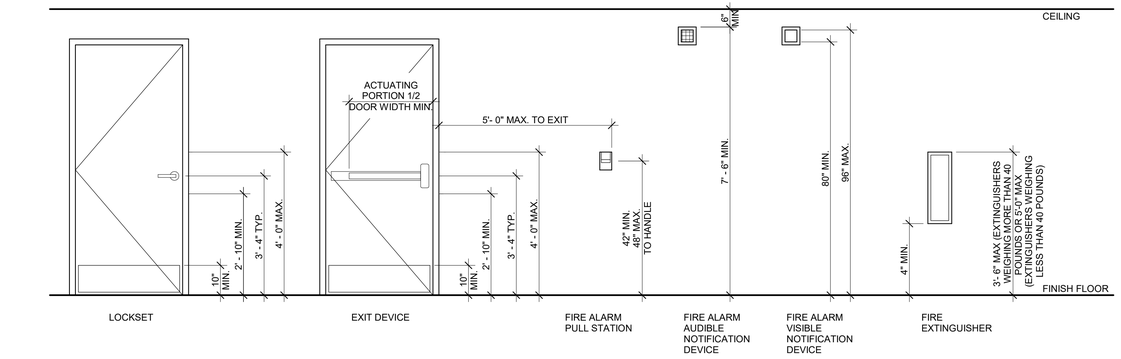
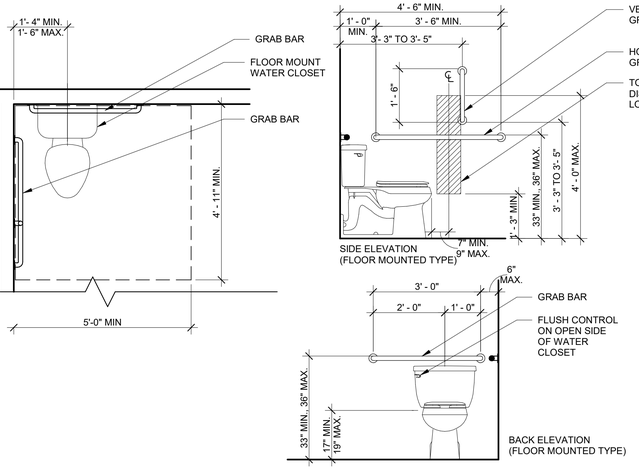


1 A0.03 **TYPICAL ACCESSIBLE MOUNTING HEIGHTS**
1/2" = 1'-0"



2 A0.03 **GRAB BAR SECTION**
6" = 1'-0"

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- IN TOILET ROOMS, AT LEAST ONE OF EACH TYPE OF FIXTURE SHALL BE ACCESSIBLE.
- PROVIDE CLEAR FLOOR AREAS AT EACH ACCESSIBLE FIXTURE. PROVIDE A 5'-0" TURNING RADIUS IN TOILET ROOMS AND KITCHENS.

3 A0.03 **ACCESSIBLE WATER CLOSETS**
1/2" = 1'-0"

4 A0.03 **EMERGENCY EGRESS SIGNAGE (B)**
1/4" = 1'-0"

5 A0.03 **ALLOWED AREA FOR PROTRUDING OBJECTS**
1/2" = 1'-0"

6 A0.03 **OBSTRUCTED REACH LIMITS (A)**
1/2" = 1'-0"

7 A0.03 **OBSTRUCTED REACH LIMITS (B)**
1/2" = 1'-0"

8 A0.03 **OBSTRUCTED REACH LIMITS (C)**
1/2" = 1'-0"

9 A0.03 **OBSTRUCTED REACH LIMITS (D)**
1/2" = 1'-0"

10 A0.03 **OBSTRUCTED REACH LIMITS (E)**
1/2" = 1'-0"

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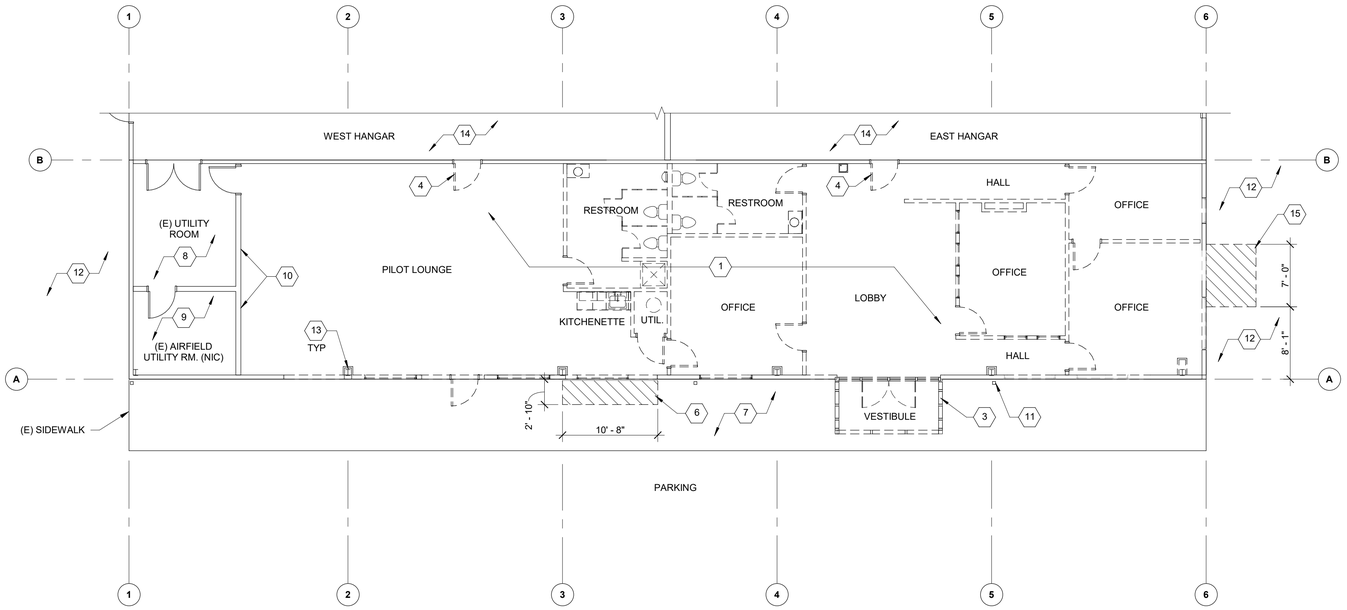

NORTH

1 AD1.01 **DEMOLITION PLAN**

1/8" = 1'-0"

DEMOLITION PLAN GENERAL NOTES

- COORDINATE DEMOLITION WORK WITH THE PROPOSED DESIGN SHOWN ON OTHER DRAWING SHEETS. NOTIFY ARCHITECT/ENGINEER OF ANY DISCREPANCIES PRIOR TO DEMOLITION.
- SEE MECHANICAL/ELECTRICAL AND PLUMBING DRAWINGS FOR DEMOLITION RELATED TO MECHANICAL, ELECTRICAL AND PLUMBING WORK.
- SEE STRUCTURAL DRAWINGS FOR DEMOLITION RELATED TO BUILDING STRUCTURAL ITEMS. DO NOT CUT AND REMOVE STRUCTURAL ITEMS UNLESS WORK IS NOTED ON CONTRACT DOCUMENTS OR IS DIRECTED BY ARCHITECT/ENGINEER.
- DO NOT REMOVE EXISTING FIRE-RATED CONSTRUCTION UNLESS NOTED ON CONTRACT DOCUMENTS OR AS DIRECTED BY ARCHITECT/ENGINEER.
- SUBMIT A CUTTING AND PATCHING PROPOSAL DESCRIBING PROCEDURES AT LEAST (10) DAYS BEFORE THE CUTTING AND PATCHING WILL BE PERFORMED, REQUESTING APPROVAL TO PROCEED.
- PATCH AND REPAIR ALL EXISTING WALL/FLOOR/CEILING ASSEMBLIES DAMAGED BY WALL/FLOOR/CEILING REMOVAL OR INSTALLATION.
- COMPLY WITH IFC CHAPTER 33 - FIRE SAFETY DURING CONSTRUCTION AND DEMOLITION AND OTHER APPLICABLE FIRE CODES.

LEGEND

Room name 101	ROOM NAME ROOM ###
101	DOOR NUMBER -- SEE DOOR SCHEDULE
1i	STOREFRONT, WINDOW/RELITE NUMBER -- SEE WINDOW SCHEDULE
1t	WALL TYPE -- SEE WALL TYPE SCHEDULE
F.O.B.	FACE OF BUILDING
F.O.W.	FACE OF WALL
F.O.S.	FACE OF SLAB
(E)	EXISTING
℄	CENTERLINE
F.F.	FINISH FLOOR
	INTERIOR WALLS, DOORS, RELITES, FIXTURES, AND EQUPIMENT TO BE REMOVED
	(E) WALL TO REMAIN
	(E) EXTERIOR WALL FRAMING AND STRUCTURE TO REMAIN -- REMOVE EXTERIOR METAL SIDING, SHEATHING, BATT INSLUATION, INTERIOR GYPSUM BOARD, WINDOWS, DOORS, AND FIXTURES. FRAMING WILL NEED TO BE REWORKED WITH ADDITIONAL STRUCTURE/REINFORCEMNT AS REQUIRED AT UPDATED NEW VESIBULE, DOOR, AND WINDOW LOCATIONS -- SEE STRUCTUAL DRAWINGS.
	(E) EXTERIOR WALL FRAMING AND STRUCTURE TO REMAIN -- REMOVE EXTERIOR METAL SIDING. INTERIOR ROOM AND ASSOCIATED AIRPORT INFRASTRUCURE ELEMENTS WITHIN WALL AND IN THIS AREA IS NOT TO BE ALTERED. COORDINATE WITH OWNER.
	AREA OF EXTERIOR DEMOLITION/SITE RE-WORK

DEMOLITION PLAN KEYNOTES

1. REMOVE ALL INTERIOR WALLS, INSULATION, DOORS, RELITES, SUSPENDED CEILINGS (ACT/GYP. BD.), LIGHT FIXTURES, PLUMBING FIXTURES, ELECTRICAL FIXTURES, FLOORING DOWN TO (E) CONCRETE SLAB, MECHANICAL EQUPIMENT, AND CASEWORK. EXISTING STRUCTURAL COLUMNS, BEAMS, AND BRACES TO REMAIN. EXISTING INSULATION @ UNDERSIDE OF ROOF DECK TO REMAIN.
2. NOT USED
3. REMOVE STOREFRONT VESTIBULE ENTIRELY -- PATCH AND REPAID EXISTING CONCRETE SLAB TO MATCH EXISTING ADJACENT SIDEWALK
4. REMOVE EXISTING DOOR -- PREP FOR WALL INFILL.
5. NOT USED
6. AREA OF EXISTING SIDEWALK TO BE REMOVED IN PREPARATION FOR NEW VESTIBULE AND FLOOR -- SEE FLOOR PLAN AND STRUCTURAL DRAWINGS.
7. METAL SOFFIT PANELS AT UNDERSIDE OF AWNING-OVERHANG TO BE REMOVED.
8. LIMITED DEMO WORK TO BE PERFORMED ONLY AS NECESSARY IN THIS AREA FOR NEW ELECTRIAL PANEL INSTALL, WIRING, AND MECHANICAL UNIT RUNS/DUCTING, ETC.
9. NO WORK TO BE PERFORMED IN THIS ROOM (CRITICAL CITY/AIRPORT INFRASRUCTURE) -- COORDINATE WITH OWNER IF ACCESS IS REQUIRED.
10. REMOVE EXISTING GYPSUM BOARD DOWN TO STUDS AT THIS WALL.
11. EXISTING DOWSPOUTS TO BE REMOVED AND REPLACED WITH NEW -- ROUTE INTO EXISTING DRAINAGE SYSTEM. EXISITNG GUTTER TO REMAIN.
12. EXISTING UTILITY, INFRASTRUCTURE, AND MEP EQUIPMENT THIS AREA TO REMAIN. FOR SPECIFIC MEP UNITS TO BE REMOVED REFER TO MEP DRAWINGS.
13. EXISTING COLUMN TO REMAIN -- REMOVE SURROUNDING FURRING.
14. HANGAR AREAS NOT IN SCOPE -- COORDINATE WITH OWNER FOR ACCESS AS REQUIRED.
15. AREA OF (E) PAVED WALKWAY TO BE REMOVED AND PREPPED FOR NEW CONCRETE LANDING, STEP, AND RAILING

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DRAWING TITLE:
DEMOLITION PLAN

DRAWN BY: Author
CHECKED BY: Checker

AD1.01

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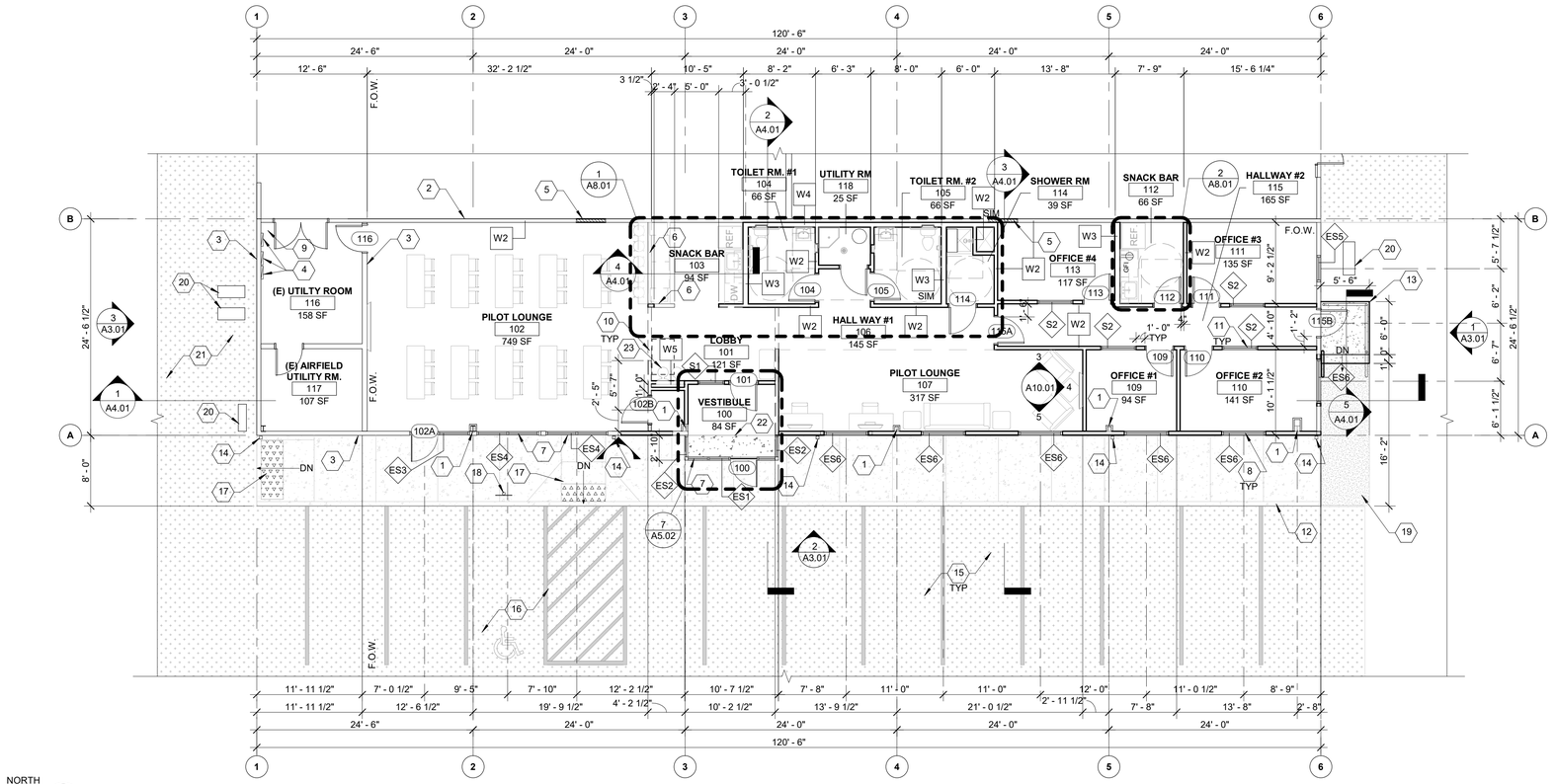

NORTH

FLOOR PLAN

1/8" = 1'-0"

FLOOR PLAN GENERAL NOTES

- APPLICABLE CODES: ALL WORK SHALL BE IN CONFORMANCE WITH ALL FEDERAL, STATE, AND LOCAL CODES. SPECIFICATIONS AND STANDARDS SHALL MEAN, AND ARE INTENDED TO BE, THE LATEST EDITION, AMENDMENT OR REVISION OF SUCH REFERENCE STANDARD, IN EFFECT AS OF THE DATE OF THE CONTRACT DOCUMENTS.
- CONTRACTOR TO VERIFY EXISTING CONDITIONS AND DIMENSIONS SHOWN OR IMPLIED PRIOR TO START OF CONSTRUCTION AND NOTIFY A/E OF ANY DISCREPANCIES.
- CONTRACTOR SHALL PROVIDE ALL NECESSARY TESTING AND COORDINATE ALL REQUIRED INSPECTIONS.
- GLASS USED IN DOORS AND WINDOWS LOCATED WITHIN A 24" ARC OF THE NEAREST VERTICAL EDGE OF A DOOR OR IN AREAS SUBJECT TO HUMAN IMPACT OR OTHER HAZARDOUS LOCATIONS SHALL BE TEMPERED OR OF AN APPROVED SAFETY GLAZING MATERIAL PER SECTION 2406 OF THE INTERNATIONAL BUILDING CODE (IBC).
- VENTILATION AND LIGHT SHALL BE PROVIDED AS PER SECTIONS 1203 AND 1205 OF THE IBC.
- ALL INSULATION INDICATED ON THE PLANS SHALL COMPLY WITH OR EXCEED THE REQUIREMENTS IN SECTION 720 OF THE IBC FOR SMOKE DENSITY AND FLAME SPREAD.
- PROVIDE CLASS ABC EXTINGUISHERS AT EACH EXIT DOOR AND SUCH THAT THE MAXIMUM TRAVEL DISTANCE DOES NOT EXCEED 75-FEET. COORDINATE FINAL LOCATIONS OF EACH WITH FIRE MARSHALL.
- PROVIDE EGRESS IDENTIFICATION PER SECTION 1008 OF THE IBC. VERIFY EXACT LOCATION OF SIGNS WITH FIRE MARSHAL AT TIME OF CONSTRUCTION.
- PROVIDE EGRESS ILLUMINATION PER SECTION 1008 OF THE IBC BY SEPARATE PERMIT.
- ALL DOOR HARDWARE SHALL COMPLY WITH REQUIREMENTS OF LOCAL ACCESSIBILITY CODES AND THE ADA.
- ALL NEW DOORS AND WINDOWS SHALL COMPLY WITH APPLICABLE ENERGY CODES.
- PROVIDE 18" MIN. CLEAR OPPOSITE DOOR LEVER ON PULL SIDE OF DOOR AND 12" MIN. CLEAR OPPOSITE DOOR LEVER ON PUSH SIDE PER ADA GUIDELINES.
- GRIDLINES ARE TO CENTERLINE OF COLUMNS AND EDGE OF WALLS UNLESS NOTED OTHERWISE.
- DIMENSIONS ARE AS FOLLOWS: GRID LINE: CENTER OF COLUMN, FRAMING OF WALLS: TO WALL FRAMING; OPENINGS: TO CENTERLINE: TO CENTERLINE; UNLESS NOTED OTHERWISE
- PROVIDE ACCESS DOORS IN WALLS AND CEILINGS WHERE REQUIRED TO PROVIDE ACCESS TO MECHANICAL, ELECTRICAL, AND PLUMBING COMPONENTS.

LEGEND

Room name 101	ROOM NAME ROOM ###
101	DOOR NUMBER -- SEE DOOR SCHEDULE
1i	STOREFRONT, WINDOW/RELITE NUMBER -- SEE WINDOW SCHEDULE
1t	WALL TYPE -- SEE WALL TYPE SCHEDULE
F.O.B.	FACE OF BUILDING
F.O.W.	FACE OF WALL
F.O.S.	FACE OF SLAB
(E)	EXISTING
℄	CENTERLINE
F.F.	FINISH FLOOR
═══	NEW WALL

FLOOR PLAN KEYNOTES

1. (E) COLUMN TO REMAIN
2. (E) HANGAR DEMISING WALL
3. (E) WALLS
4. (E) ELECTRICAL PANELS
5. (E) DOOR TO BE REMOVED -- INFILL WALL OPENING
6. PARTIAL HEIGHT WALL
7. INSULATED ALUMINUM STOREFRONT
8. EXTERIOR ALUMINUM STORFRONT WINDOWS
9. ELECTRICAL PANEL
10. SOFFIT / BULKHEAD ABOVE -- SHOWN DASHED
11. INTERIOR ALUMINUM STORFRONT RELITES
12. (E) SIDEWALK
13. CONCRETE PAD AND STEP W/ HANDRAIL
14. DOWNSPOUTS -- TIE INTO (E) DRAINS
15. (E) PARKING SPACES
16. (E) ACCESSIBLE PARKING STALL AND ACCESS AISLE W/ SIGNAGE AND STRIPING
17. (E) ACCESSIBLE RAMP W/ TRUNCATED DOMES
18. (E) ADA PARKING SIGNAGE
19. (E) PAVED WALKWAY
20. (E) MECHANICAL EQUIPMENT -- REFER TO MEP DRAWINGS
21. (E) UTILITY EQUIPMENT TO REMAIN THIS AREA -- CONTRACTOR TO VERIFY EXTENT AND LOCATIONS
22. NEW COCNRETE FLOOR SLAB VESTIBULE AREA PROTRUDING INTO (E) SIDEWALK -- SEE STRUCTURAL
23. HI-LOW DRINKING FOUNTAIN DETAIL 10/A0.02 -- SEE PLUMBING

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DRAWING TITLE:
FLOOR PLAN

DRAWN BY: MAW
CHECKED BY: GGB

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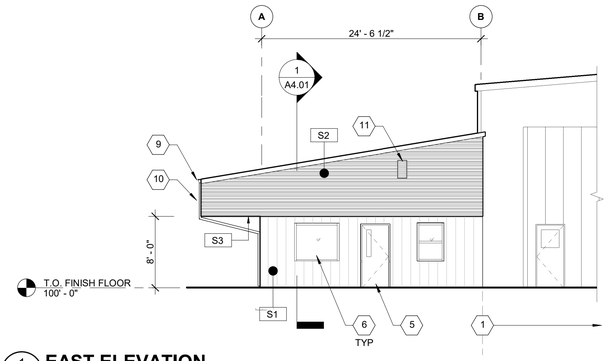
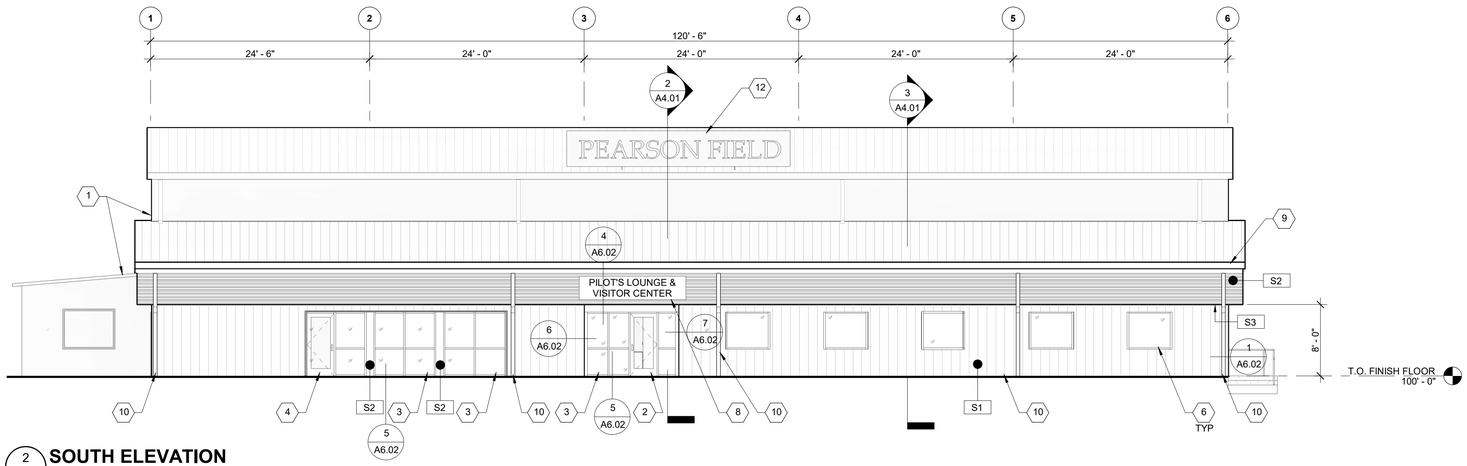
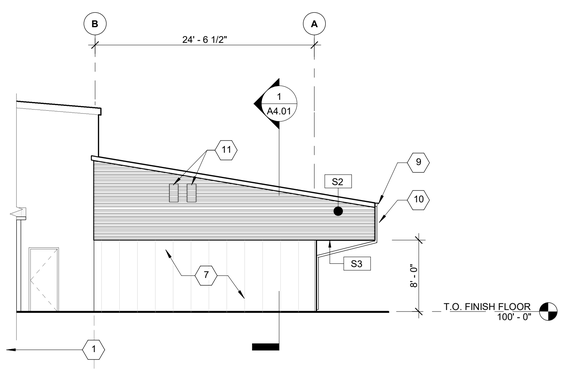


1 EAST ELEVATION
A3.01 1/8" = 1'-0"



2 SOUTH ELEVATION
A3.01 1/8" = 1'-0"



3 WEST ELEVATION
A3.01 1/8" = 1'-0"

ELEVATION GENERAL NOTES

- CONTRACTOR TO VERIFY EXISTING CONDITIONS AND DIMENSIONS SHOWN OR IMPLIED PRIOR TO THE START OF CONSTRUCTION AND NOTIFY ENGINEER OF RECORD OF ANY DISCREPANCIES.
- PENETRATIONS ARE DIAGRAMATIC AND MAY NOT DEPICIT THE ACTUAL NUMBER, SIZE OR LOCATION. SEE MECHANICAL/PLUMBING/EQUIPMENT DRAWINGS FOR INFORMATION REGARDING DUCT, PIPING, LOUVER, ETC... PENETRATIONS.
- PATCH AND REPAIR ROOFING AS REQUIRED FOR DEMOLISHED, NEW, OR RELOCATED FIXTURES, INCLUDING BUT NOT LIMITED TO PLUMBING VENTS, EXHAUST AND SIMILAR SYSTEMS.

LEGEND

(E) EXISTING METAL SIDING

S1: VERTICAL METAL SIDING
-- FLAT FLUSH PANEL, NO RIB -- ZINC GRAY

S2: HORIZONTAL METAL SIDING
--PERCEPTION COLLECTION PC10-12, ZINC GRAY

S3: SOFFIT METAL PANEL
--FLAT FLUSH PANEL, NO RIB --MIDNIGHT BRONZE

ELEVATION KEYNOTES

1. (E) ADJACENT HANGAR -- NIC
2. STOREFRONT PRIMARY ENTRANCE DOOR
3. STOREFRONT WINDOW SYSTEM
4. MEETING ROOM - PILOT LOUNGE SECONDARY DOOR
5. OFFICE AREA SECONDARY DOOR
6. ALUMINUM STOREFRONT
7. EXTERIOR WALL TO REMAIN AS-IS (EXTENSIVE EXISTING BLDG. UTILITIES LOCATED THIS AREA) -- PAINT TO MATCH NEW SOUTH FACADE
8. SIGNAGE BY OTHERS -- PROVIDE POWER FOR LIGHTING AND IN WALL BLOCKING TO SUPPORT SIGN. COORDINATE MOUNTING LOCATION AND SIZE WITH OWNER'S SIGNAGE VENDOR
9. NEW GUTTER TO REPLACE EXISTING
10. NEW DOWNSPOUT AT EXISTING LOCATION
11. VENT LOUVER
12. (E) SIGNAGE TO REMAIN

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STATE OF WASHINGTON

LIVERMORE ARCHITECTURE & ENGINEERING, INC.
1500 SW First Avenue, Suite 240
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Livermore A&E
Job No:223073.00

CITY OF Vancouver WASHINGTON

PEARSON FIELD
TERMINAL RENOVATION PROJECT
PEARSON FIELD
101 EAST RESERVE ST.
VANCOUVER, WA 98661

DRAWING TITLE:
ELEVATIONS

DRAWN BY: MAW
CHECKED BY: GGB

A3.01

ISSUE FOR CONSTRUCTION

FAA GRANT #3-53-0139-022-2026

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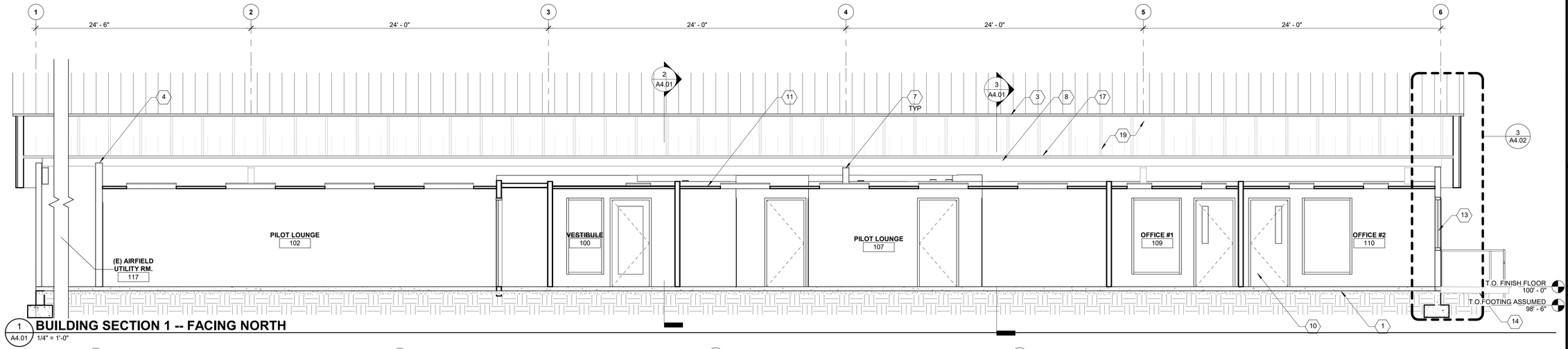
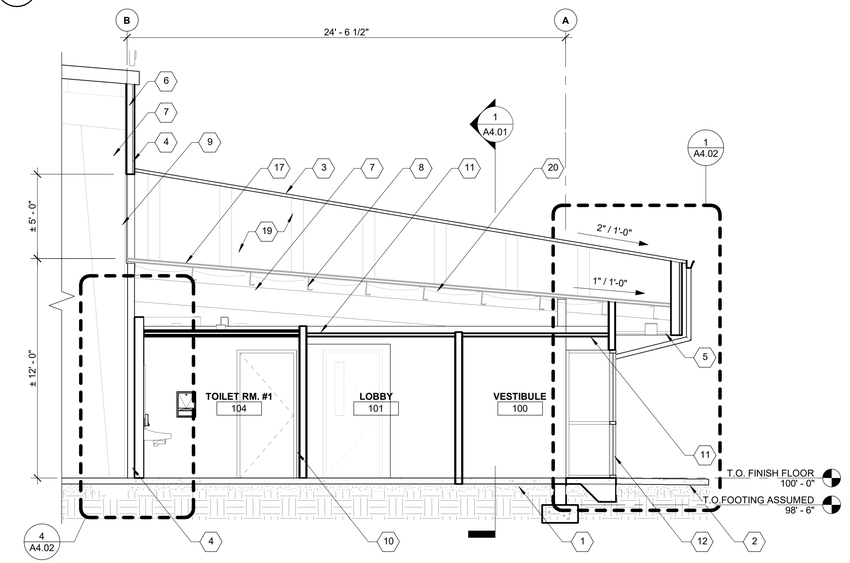


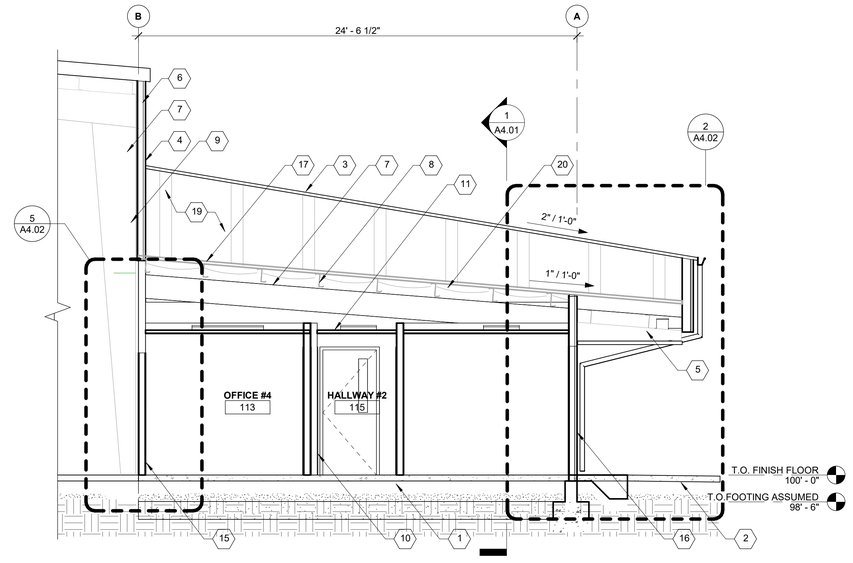
1 A4.01 BUILDING SECTION 1 -- FACING NORTH

1/4" = 1'-0"



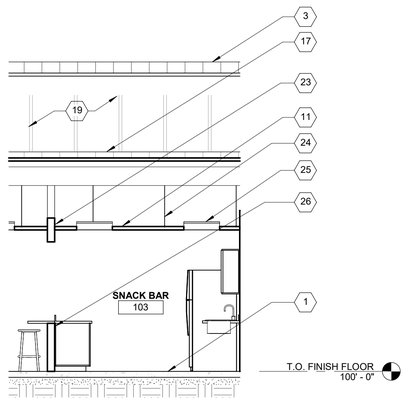
2 A4.01 BUILDING SECTION 2 -- FACING EAST

1/4" = 1'-0"



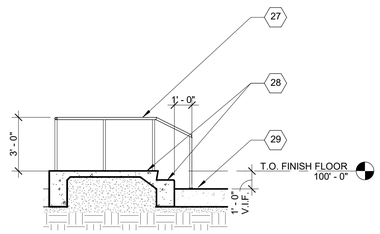
3 A4.01 BUILDING SECTION 3 -- FACING EAST AT GRIDLINE 5

1/4" = 1'-0"



4 A4.01 KITCHEN INTERIOR SECTION - FACING NORTH

1/4" = 1'-0"



5 A4.01 CONCRETE LANDING AND STAIR SECTION

1/4" = 1'-0"

SECTION GENERAL NOTES

- CONTRACTOR TO VERIFY EXISTING CONDITIONS AND DIMENSIONS SHOWN OR IMPLIED PRIOR TO THE START OF CONSTRUCTION AND NOTIFY ENGINEER OF RECORD ANY DISCREPANCIES WHICH WILL AFFECT THE WORK
- COORDINATE CLEARANCES REQUIRED IN CEILING SPACES WITH HVAC, ELECTRCIAL, AND PLUMBING SYSTEMS.
- PATCH AND REPAIR ROOFING AS REQUIRED FOR DEMOLISHED, NEW OR RELOCATED FIXTURES INCLUDING BUT NOT LIMITED TO PLUMBING VENTS, EXHAUST, AND SIMILAR SYSTEMS.

SECTION KEYNOTES

1. (E) CONCRETE FLOOR SLAB
2. (E) CONCRETE SIDEWALK
3. (E) OUTER/OVERFRAMING METAL ROOF
4. (E) WALLS
5. (E) OVERHANG OVER SIDEWALK -- REPLACE SOFFIT PANELS
6. (E) HANGAR ROOF
7. (E) PRE-ENGINEERED BUILDING ROOF BEAM
8. (E) Z-GIRT JOIST
9. (E) (E) PRE-ENGINEERED BUILIDING STRUCTURAL COLUMN
10. INTERIOR PARTITION WALL
11. SUSPENDED ACT CEILING
12. ALUMINUM STOREFRONT SYSTEM
13. ALUMINUM STOREFRONT WINDOW
14. (E) PAVED WALKWAY
15. WALL INFILL WHERE OCCURS
16. REWORKED EXTERIOR WALL
17. (E) INNER/BURIED METAL ROOF
18. NOT USED
19. OPEN PLENUM AREA ABOVE INNER, OLDER (E) ROOF OVERFRAMED BY OUTER, NEWER (E) ROOF WITH METAL STUD FRAMING.
20. (E) BATT INSULATION W/ VAPOR BARRIER
21. REPLACE (E) GUTTER WITH NEW PREFINISHED STEEL GUTTER. MATCH EXISTING TYPE AND SIZE
22. REPLACE (E) DOWNSPOUTS WITH NEW PREFINISHED STEEL DOWNSPOUTS. MATCH EXISTING TYPE AND SIZE. CONNECT TO (E) STORMWATER SYSTEM
23. CEILING SOFFIT -- SEE CEILING DETAILS FOR ADDITIONAL INFORMATION
24. SUSPENDED CEILING HANGER WIRES
25. LIGHTING FIXTURES -- SEE ELECTRICAL
26. PARTIAL WALL WITH COUNTERTOP BAR -- SEE FLOOR PLAN AND INTERIOR ELEVATIONS FOR ADDITIONAL INFORMATION
27. STEEL PAINTED PIPE HANDRAIL
28. CONCRETE LANDING AND STAIR -- SEE STRUCTURAL
29. EXISTING PAVEMENT

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BUILDING SECTIONS

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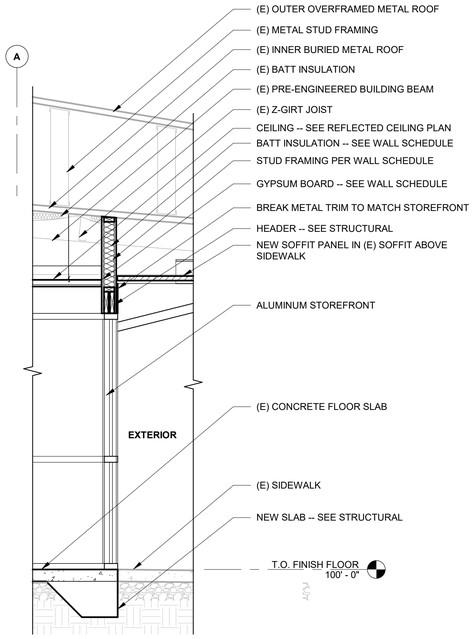
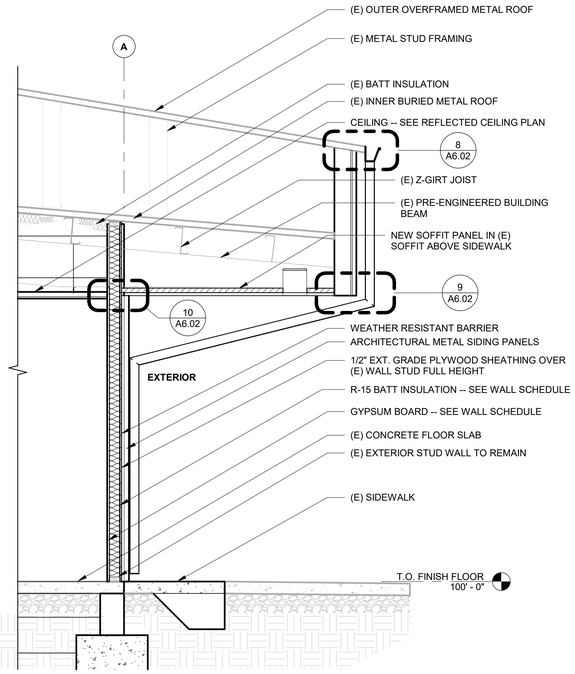


1 A4.02 **WALL SECTION -- VESTIBULE**
1/2" = 1'-0"



2 A4.02 **WALL SECTION -- EXTERIOR**
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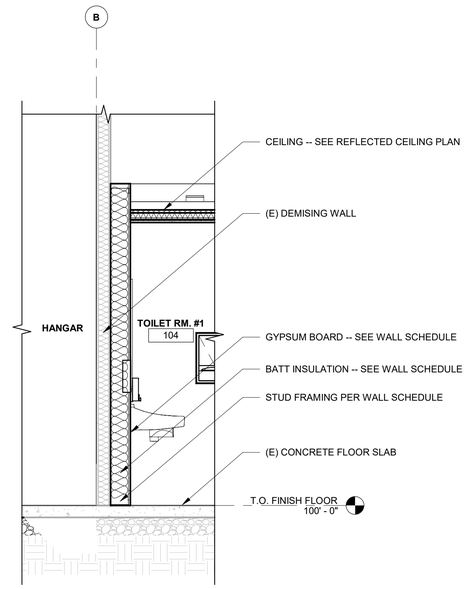
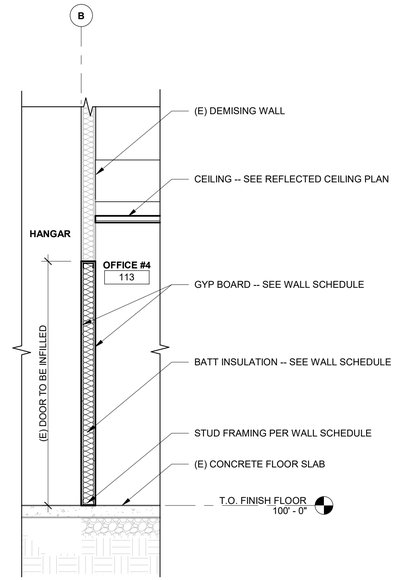
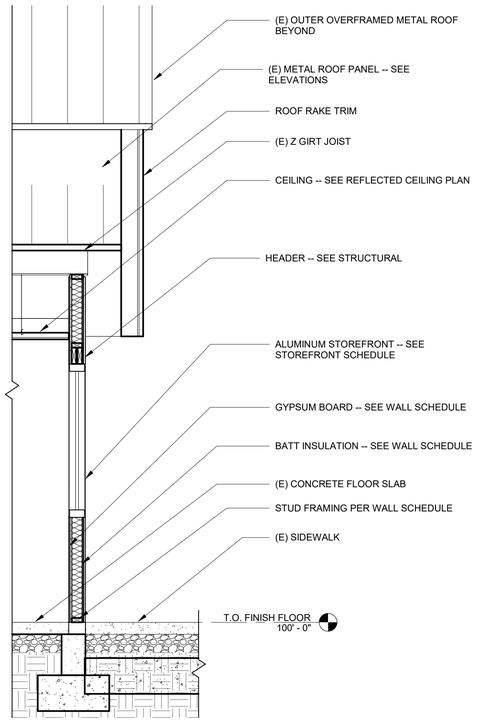


4 A4.02 **WALL SECTION -- WALL AT (E) DEMISING WALL**
1/2" = 1'-0"



5 A4.02 **WALL SECTION -- INFILL AT (E) DEMISING WALL**
1/2" = 1'-0"



3 A4.02 **WALL SECTION AT EAST SIDE OF BUILDING**
1/2" = 1'-0"

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DOOR SCHEDULE

Mark	Door Type	DOOR PANEL Width	Height	Thickness	Door Material	Door Finish	FRAME Frame Material	Frame Finish	Head	Jamb	Sill	Hardware	Lock Function	Fire Rating	Comments
100	D	3' - 0"	7' - 0"	0' - 1 3/4"	ALUM	BR ANO	ALUM	BR ANO	--	--	5/A5.01	C, CR, ES, PB, P, SW, T, W	--	--	PROVIDE SIGNAGE STATING "THIS DOOR TO REMAIN UNLOCKED WHEN SPACE IS OCCUPIED"
101	C	3' - 0"	7' - 0"	0' - 1 3/4"	SC	CLEAR	HM	PAINT	2/A5.01	2/A5.01	--	C, P, PP, KP	--	--	
102A	D	3' - 0"	7' - 0"	0' - 1 3/4"	ALUM	BR ANO	ALUM	BR ANO	--	--	5/A5.01	C, CR, ES, SW, W, T	F	--	
102B	A	3' - 0"	7' - 0"	0' - 1 3/4"	SC	CLEAR	HM	PAINT	2/A5.01	2/A5.01	--	L	E	,	
104	A	3' - 0"	7' - 0"	0' - 1 3/4"	SC	CLEAR	HM	PAINT	2/A5.01	2/A5.01	--	L, C, KP	B	,	
105	A	3' - 0"	7' - 0"	0' - 1 3/4"	SC	CLEAR	HM	PAINT	2/A5.01	2/A5.01	--	L, C, KP	B	,	
109	A	3' - 0"	7' - 0"	0' - 1 3/4"	SC	CLEAR	HM	PAINT	2/A5.01	2/A5.01	--	L	D	--	
110	A	3' - 0"	7' - 0"	0' - 1 3/4"	SC	CLEAR	HM	PAINT	2/A5.01	2/A5.01	--	L	D	--	
111	A	3' - 0"	7' - 0"	0' - 1 3/4"	SC	CLEAR	HM	PAINT	2/A5.01	2/A5.01	--	L	D	--	
112	C	3' - 0"	7' - 0"	0' - 1 3/4"	SC	CLEAR	HM	PAINT	2/A5.01	2/A5.01	--	L	A	--	
113	A	3' - 0"	7' - 0"	0' - 1 3/4"	SC	CLEAR	HM	PAINT	2/A5.01	2/A5.01	--	L	D	,	
114	A	3' - 0"	7' - 0"	0' - 1 3/4"	SC	CLEAR	HM	PAINT	2/A5.01	2/A5.01	--	C, L	D	--	
115A	B	3' - 0"	7' - 0"	0' - 1 3/4"	SC	CLEAR	HM	PAINT	2/A5.01	2/A5.01	5/A5.01	L, C, CR, ES	E	--	
115B	B	3' - 0"	7' - 0"	0' - 1 3/4"	HM	PAINT	HM	PAINT	3/A5.01	4/A5.01	5/A5.01	L, C, CR, ES, SW, T, W	C	--	
116	A	3' - 0"	6' - 8"	0' - 1 3/4"	(E) HM	PAINT	(E) HM	PAINT	--	--	--	--	--	--	(E) DOOR TO REMAIN, REPAINT DOOR & FRAME -- SEE FINISH PLANS
118	A	3' - 0"	7' - 0"	0' - 1 3/4"	SC	CLEAR	HM	PAINT	2/A5.01	2/A5.01		C, L	E	,	

LOCK FUNCTIONS LEGEND

TYPE	PASSAGE	PRIVACY	ENTRANCE	OFFICE	STOREROOM	STOREFRONT ENTRANCE
	A	B	C	D	E	F
DIAGRAM						
DESCRIPTION	BOTH LEVERS ALWAYS UNLOCKED.	PUSH-BUTTON LOCKING ON INTERIOR. TURNING INSIDE LEVER RELEASES PUSH BUTTON. CAN OPEN FROM OUTSIDE VIA EMERGENCY RELEASE.	TURN/PUSH BUTTON LOCKING ON INTERIOR. TURN KEY LOCKING ON EXTERIOR	PUSH-BUTTON LOCKING ON INTERIOR. TURN KEY LOCKING ON EXTERIOR.	OUTSIDE LEVER FIXED. KEY ONLY. INSIDE LEVER ALWAYS UNLOCKED.	OUTSIDE PULL, INSIDE PUSH BAR. DEADLOCK WITH KEYED EXTERIOR AND THUMB-TURN INTERIOR.
SPECIFICATION (SCHLAGE)	AL10S/GRADE 2	AL40S/GRADE 2	AL53PD/GRADE 2	AL50PD/GRADE 2	AL80PD/GRADE 2	ADAMS RITE MS-1850

DOOR ASSEMBLY REMARKS

1	INSULATED DOOR
2	NOT USED

DOOR HARDWARE LEGEND

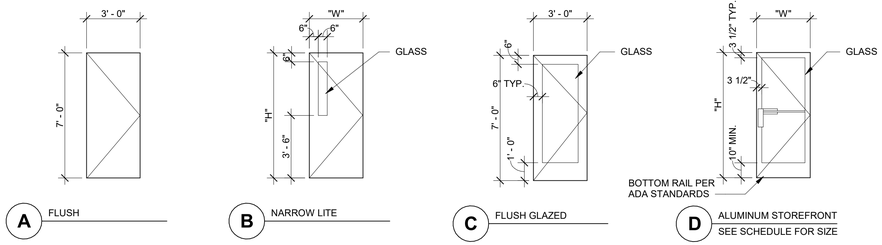
AP	ARMOR PLATE
CR	CARD READER
C	CLOSER
DB	DEADBOLT WITH OCCUPANCY INDICATOR
ES	ELECTRIC STRIKE
ED	EXIT DEVICE
KP	KICK PLATE
L	LOCKSET
MFB	MANUAL FLUSH BOLTS
P	PULL
PB	PUSH BAR
PP	PUSH PLATE
SB	SURFACE BOLT
SW	SWEEP
T	THRESHOLD
W	WEATHERSTRIPPING

ABBREVIATIONS

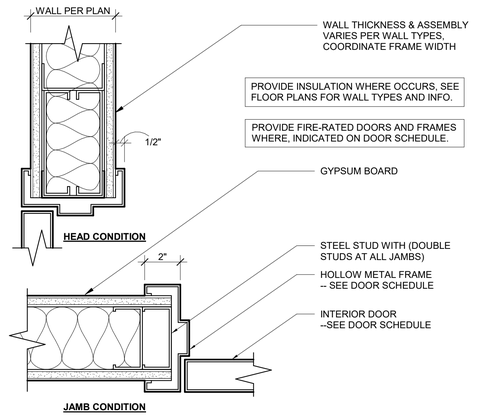
ALUM	ALUMINUM
BR ANO	BRONZE ANODIZED
CLEAR	CLEAR, FACTORY APPLIED FINISH
HM	HOLLOW METAL
PAINT	FIELD APPLIED PAINTED FINISH
SC	SOLID CORE WOOD

DOOR GENERAL NOTES

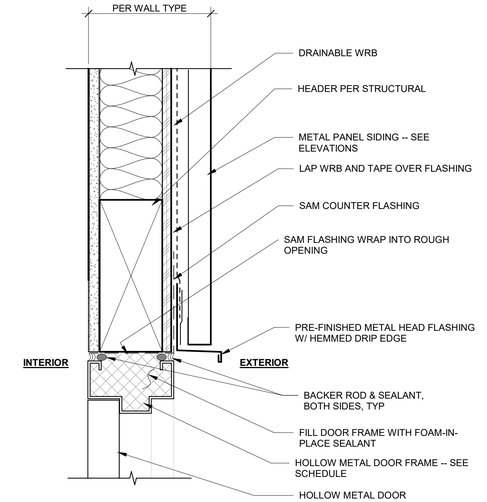
- ALL DOORS SHALL COMPLY WITH APPLICABLE REQUIREMENTS OF THE IBC, ADAAG, AND ANSI A117.1. IN ADDITION, FIRE-RATED DOORS SHALL COMPLY WITH APPLICABLE REQUIREMENTS OF NFPA 80.
- "HM" INDICATES "HOLLOW METAL".
- PROVIDE LEVER-HANDLE LOCKSETS AND EXIT DEVICE TRIM. KNOB-HANDLES AND THUMB LATCHES ARE NOT PERMITTED.
- HARDWARE FINISHES SHALL BE BRUSHED CHROME UNLESS NOTED OTHERWISE.
- ALL GLASS IN DOORS SHALL BE TEMPERED OR OF AN APPROVED SAFETY GLAZING MATERIAL.
- ALL GLASS IN FIRE-RATED DOORS SHALL BE FIRE-PROTECTION-RATED AND SHALL COMPLY WITH THE SIZE REQUIREMENTS AND OTHER REQUIREMENTS OF NFPA 80 AND IBC.
- PROVIDE HINGES IN QUANTITY RECOMMENDED BY DOOR MANUFACTURER. PROVIDE NON-REMOVABLE HINGES AT EXTERIOR DOORS AND DOORS WITH PUBLIC EXPOSURE.
- PROVIDE POWER SUPPLIES AS REQUIRED FOR ELECTRONIC HARDWARE. COORDINATE LOCATION WITH ARCHITECT.
- COORDINATE INSTALLATION OF CONCEALED WIRING FOR CARD READERS, MAGNETIC HOLD OPENS, AND OTHER DEVICES.
- FOR DOOR STRUCTURAL FRAME INFORMATION -- SEE SHEET
- EXTERIOR OPAQUE SWINGING DOORS SHALL HAVE A MAXIMUM U VALUE OF 0.37. EXTERIOR OVERHEAD DOORS SHALL HAVE A MAXIMUM U VALUE OF 0.15. SEE A-002 FOR MORE INFORMATION.
- DOORS ADJACENT TO WALLS PROVIDE FLOOR MOUNTED DOOR STOPS



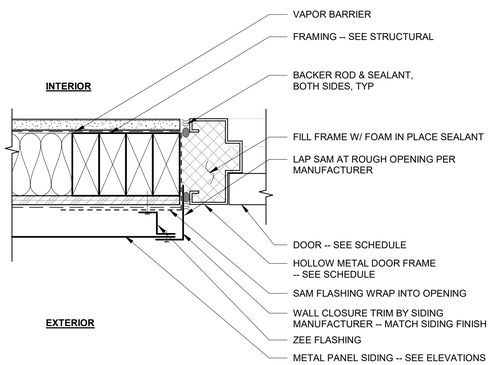
1 A5.01 **DOOR TYPES** 1/4" = 1'-0"



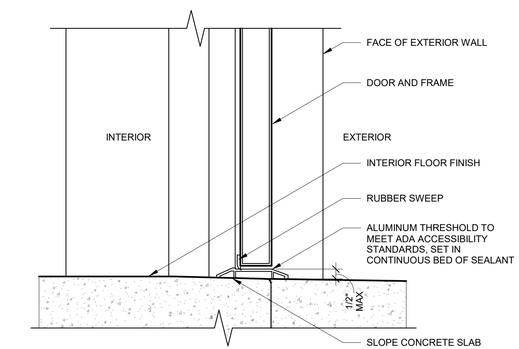
2 A5.01 **TYPICAL INTERIOR HOLLOW METAL FRAME DETAIL** 3" = 1'-0"



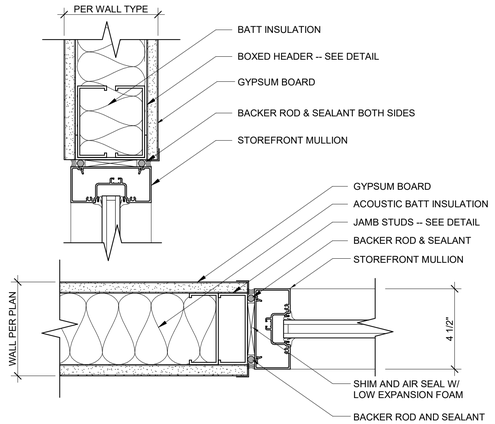
3 A5.01 **EXTERIOR DOOR HEAD @ PANEL SIDING** 3" = 1'-0"



4 A5.01 **EXTERIOR DOOR JAMB @ PANEL SIDING** 3" = 1'-0"



5 A5.01 **DOOR THRESHOLD** 3" = 1'-0"



6 A5.01 **STOREFRONT HEAD & JAMB** 3" = 1'-0"

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DRAWING TITLE: **DOOR SCHEDULE AND DETAILS**
DRAWN BY: NBA
CHECKED BY: GGB

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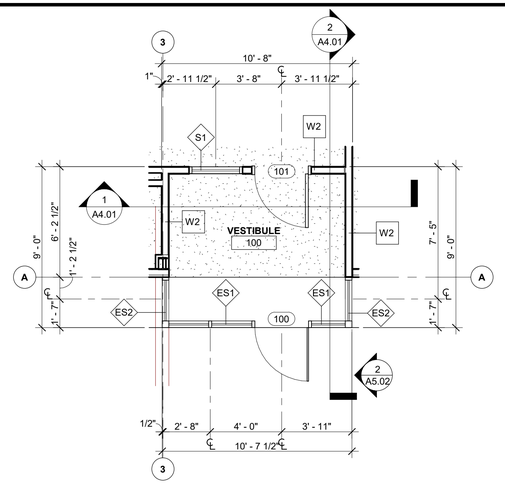
STOREFRONT/ WINDOW SCHEDULE

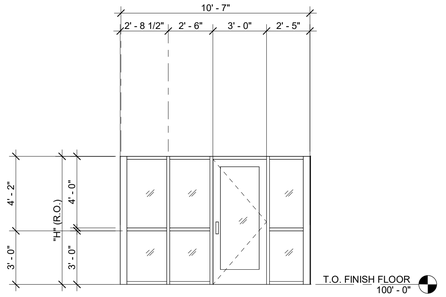
TYPE	ROUGH OPENING WIDTH "W"	ROUGH OPENING HEIGHT "H"	ROUGH OPENING SILL HEIGHT "SH"	DETAILS			GLASS TYPE	NOTES
				HEAD	JAMB	SILL		
ES1	10' -/7"	7' - 2"	0' - 0"	1/A5.03	1/A5.03	1/A5.03	T	
ES2	2' -r10"	7' - 2"	0' - 0"	1/A5.03	1/A5.03	1/A5.03	T	
ES3	6' - 9"	7' - 2"	0' - 0"	1/A5.03	2/A5.03	1/A5.03	T	
ES4	7' - 0"	7' - 2"	0' - 0"	1/A5.03	2/A5.03	1/A5.03	T	
ES5	3' - 0"	4' - 3"	3' - 0"	6/A5.03	8/A5.03	8/A5.03	C	
ES6	5' - 0"	4' - 3 1/2"	2' - 11 1/4"	6/A5.03	8/A5.03	8/A5.03	C	
S1	3' - 0"	6' - 2"	1' - 0"	1/A5.03	1/A5.03	1/A5.03	T	
S2	4' - 0"	6' - 2"	1' - 0"	1/A5.03	1/A5.03	1/A5.03	T	

GLASS LEGEND

C	CLEAR
T	TEMPERED
NOTE: ALL GLASS IN DOORS SHALL BE TEMPERED	



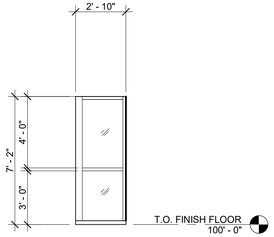
7 A5.02 ENLARGED PLAN - STOREFRONT
1/4" = 1'-0"



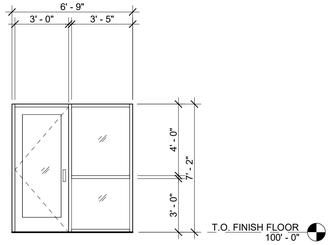
1 A5.02 ES1 - EXTERIOR STOREFRONT
1/4" = 1'-0"

STOREFRONT AND WINDOW GENERAL NOTES

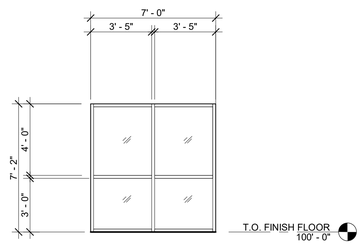
- ALL WINDOWS SHALL COMPLY WITH APPLICABLE REQUIREMENTS OF THE IBC, OSSC, WASHINGTON ENERGY CODE, AND OTHER APPLICABLE CODES.
- PROVIDE SAFETY GLAZING WHERE WINDOWS ARE WITHIN A 24" ARC OF THE VERTICAL EDGE OF AN ADJACENT DOOR AND AT OTHER LOCATIONS REQUIRED BY THE OSSC.
- SEE A0.01 AND SPECIFICATIONS FOR REQUIRED U AND SHGC VALUES OF WINDOWS AND STOREFRONTS PER THE 2021 WASHINGTON ENERGY EFFICIENCY SPECIALTY CODE.
- COORDINATE REQUIRED ROUGH OPENING DIMENSIONS WITH MANUFACTURER PRIOR TO CONSTRUCTION.
- SEE DOOR SCHEDULE FOR INFORMATION ON DOORS AND HARDWARE IN STOREFRONTS
- PROVIDE ROLLER SHADES ON ALL EXTERIOR WINDOWS, TYP.



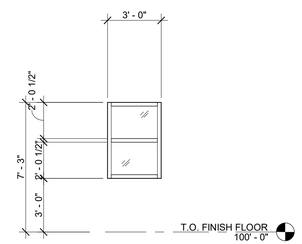
2 A5.02 ES2 - EXTERIOR STOREFRONT
1/4" = 1'-0"



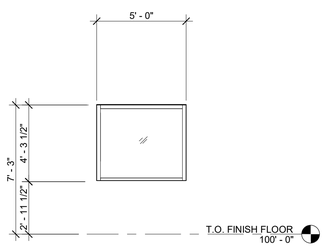
3 A5.02 ES3 - EXTERIOR STOREFRONT
1/4" = 1'-0"



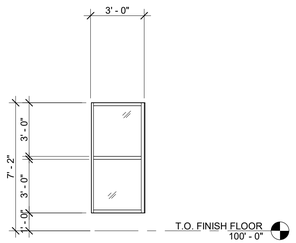
4 A5.02 ES4 - EXTERIOR STOREFRONT
1/4" = 1'-0"



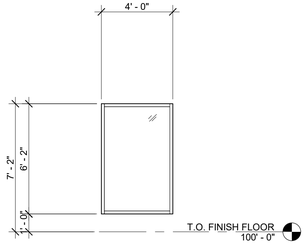
5 A5.02 ES5 - EXTERIOR STOREFRONT
1/4" = 1'-0"



6 A5.02 ES6 - EXTERIOR STOREFRONT
1/4" = 1'-0"



9 A5.02 S1 - INTERIOR STOREFRONT RELITE
1/4" = 1'-0"



8 A5.02 S2 - INTERIOR STOREFRONT RELITE
1/4" = 1'-0"

NO	DATE	ISSUE
0	9/12/25	ISSUE FOR PERMIT
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A5.02

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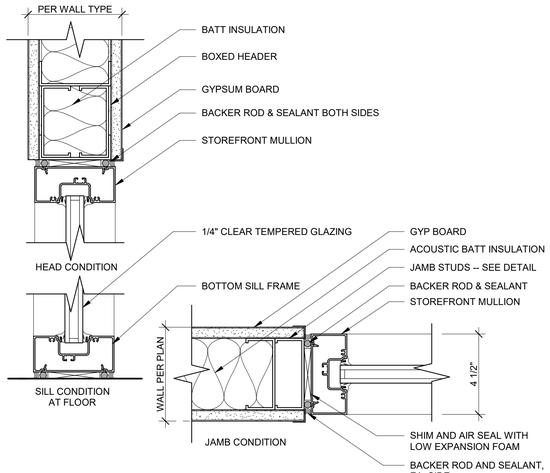
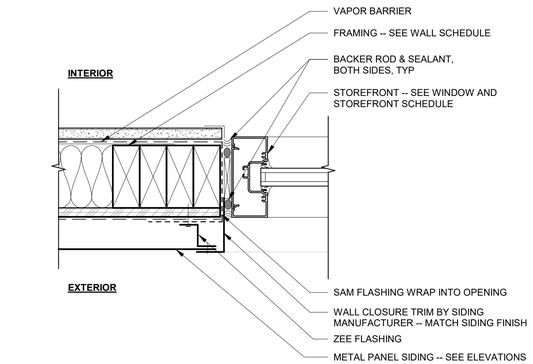
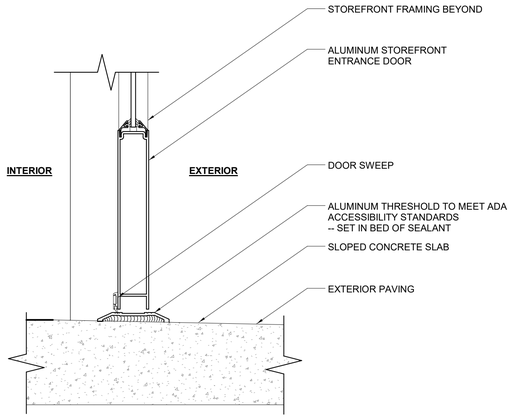


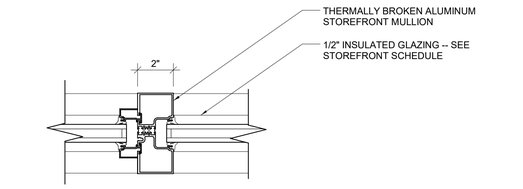
1 A5.03 **INTERIOR STOREFRONT DETAILS**
3" = 1'-0"



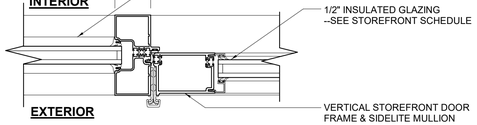
2 A5.03 **EXTERIOR STOREFRONT JAMB @ PANEL SIDING**
3" = 1'-0"



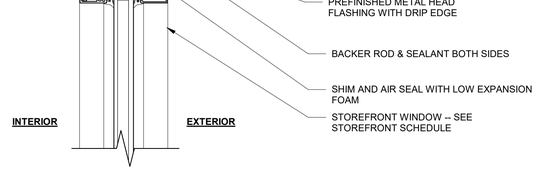
3 A5.03 **STOREFRONT DOOR SILL DETAIL**
3" = 1'-0"



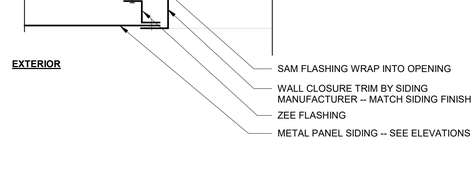
4 A5.03 **VERTICAL STOREFRONT MULLION**
3" = 1'-0"



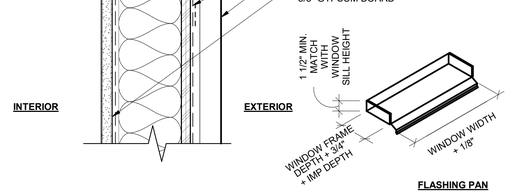
5 A5.03 **STOREFRONT DOOR VERTICAL MULLION**
3" = 1'-0"



6 A5.03 **WINDOW HEAD DETAIL**
3" = 1'-0"



7 A5.03 **WINDOW JAMB DETAIL**
3" = 1'-0"



8 A5.03 **TYP. EXTERIOR WINDOW SILL**
3" = 1'-0"

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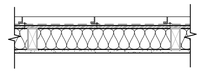
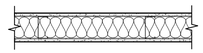
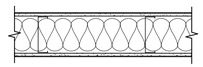
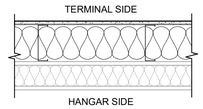
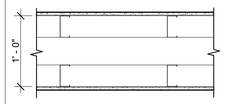
WALL TYPE SCHEDULE

WALL TYPE	WALL ASSEMBLY DESCRIPTION	WALL HEIGHT	CONNECTION DETAIL	NOTES	
W1	EXTERIOR WALL --METAL SIDING PANELS --WEATHER RESISTANT BARRIER (WRB) --PLYWOOD SHEATHING --(E) 2X4 WOOD STUDS @ 24" O.C. --FILL STUD CAVITIES WITH BATT INSULATION (R-15) --VAPOR BARRIER --5/8" GYPSUM WALL BOARD	FULL HEIGHT	--	1	
W2	INTERIOR NON-BEARING WALL --5/8" GYPSUM WALL BOARD (GREEN BOARD AT WET LOCATIONS) --3 5/8" METAL STUDS @ 24" O.C. UNLESS NOTED OTHERWISE --FILL STUD CAVITIES WITH ACCOUSTICAL BATT INSULATION --5/8" GYPSUM WALL BOARD (GREEN BOARD AT WET LOCATIONS) NOTE: NO GYPSUM BOARD ON CAVITY SIDE @ SIM CONDITION	--	--	1	
W3	INTERIOR NON-BEARING WALL --5/8" GYPSUM WALL BOARD (GREEN BOARD AT WET LOCATIONS) --6" METAL STUDS @ 24" O.C. UNLESS NOTED OTHERWISE --FILL STUD CAVITIES WITH ACCOUSTICAL BATT INSULATION --5/8" GYPSUM WALL BOARD (GREEN BOARD AT WET LOCATIONS) NOTE: NO GYPSUM BOARD ON CAVITY SIDE @ SIM CONDITION	--	--	1	
W4	INTERIOR NON-BEARING WALL --5/8" GYPSUM WALL BOARD (GREEN BOARD AT WET LOCATIONS) --6" METAL STUDS @ 24" O.C. UNLESS NOTED OTHERWISE --FILL STUD CAVITIES WITH ACCOUSTICAL BATT INSULATION --EXISTING DEMISING WALL	--	--	1	
W5	INTERIOR NON-BEARING WALL - CHASE WALL --5/8" GYPSUM WALL BOARD (GREEN BOARD) --3-5/8" METAL STUDS @ 24" O.C. UNLESS NOTED OTHERWISE --CHASE -- 3-5/8" METAL STUDS @ 24" O.C. UNLESS NOTED OTHERWISE --5/8" GYPSUM WALL BOARD				

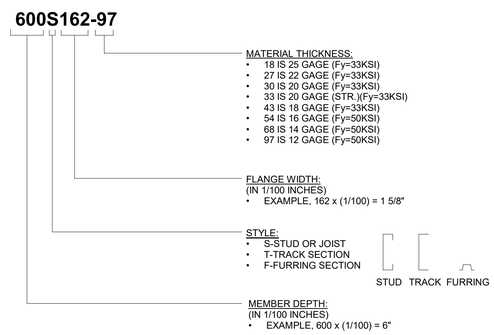
WALL TYPE NOTES:

1. CONTRACTOR TO VERIFY WALL HEIGHTS WITH PLANS. FIELD VERIFY CONDITIONS PRIOR TO START OF CONSTRUCTION.

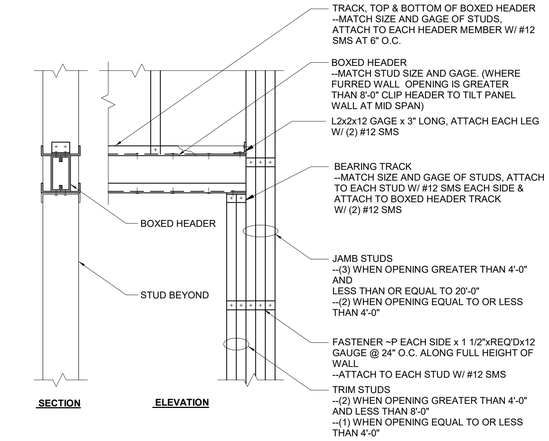
CEILING TYPE SCHEDULE

CEILING TYPE	CEILING TYPE ASSEMBLY DESCRIPTION	NOTES	
C1	GYPSUM BOARD CEILING ON METAL FRAMING -- 6" METAL JOIST @ 16" O.C. --5/8" GYPSUM WALL BOARD (GREEN BOARD AT WET LOCATIONS)	1	
C3	2x4 ACOUSTIC CEILING TILE	2	
C4	2x2 ACOUSTIC CEILING TILE	3	

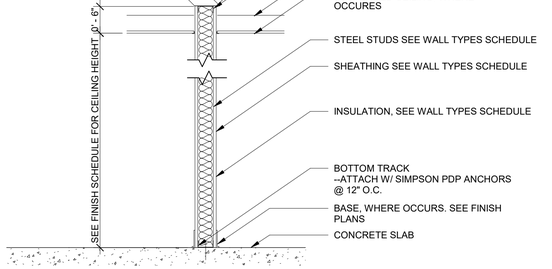
1. SEE REFLECTED CEILIGN PLAN FOR LOCATIONS AND HEIGHTS
2. SEE SHEET A9.02 FOR SUSPENDED CEILING DETAILS



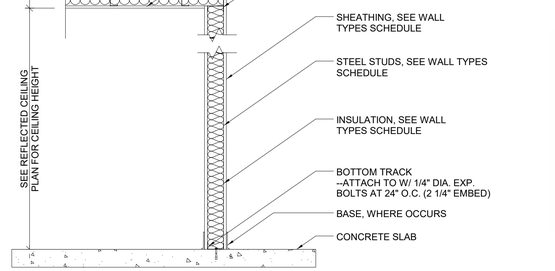
1 A6.01 **STUD DESIGNATION**
1" = 1'-0"



2 A6.01 **HEADER AT NONBEARING WALL**
1" = 1'-0"



3 A6.01 **INTERIOR PARTITION HEIGHT WALL**
3/4" = 1'-0"



4 A6.01 **INTERIOR PARTITION WALL AT HARD LID**
3/4" = 1'-0"

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WALL TYPE SCHEDULE AND DETAILS
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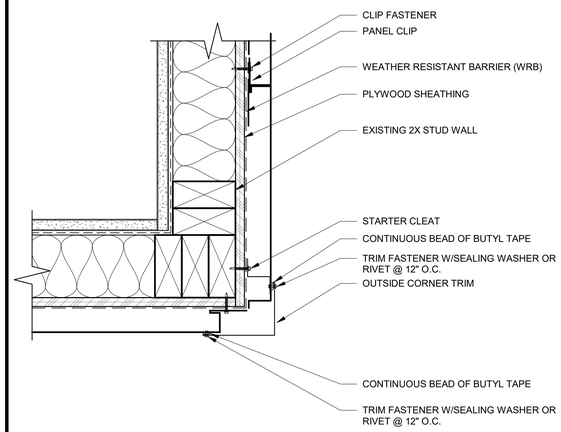
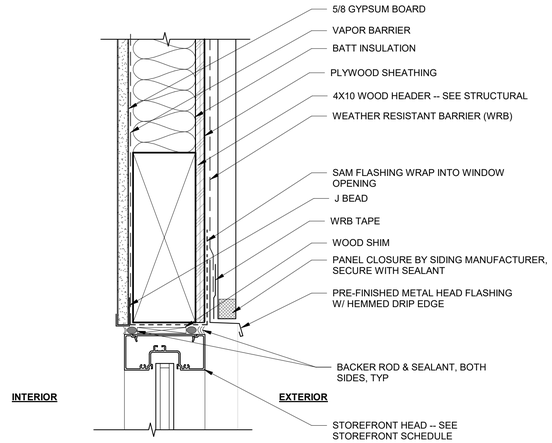


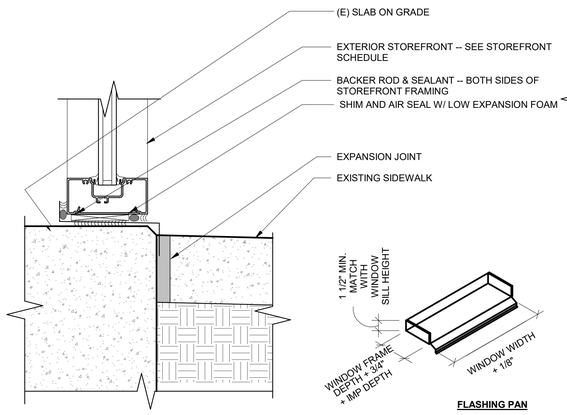
1 A6.02 EXTERIOR WALL CORNER - PLAN DETAIL
3" = 1'-0"

2 A6.02 NOT USED
3" = 1'-0"

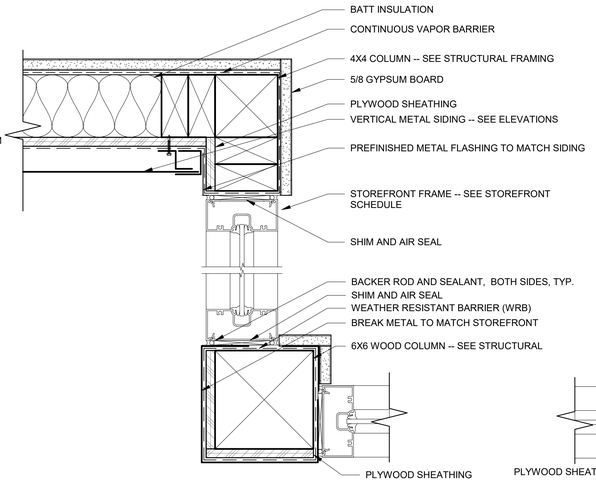
3 A6.02 NOT USED
3" = 1'-0"



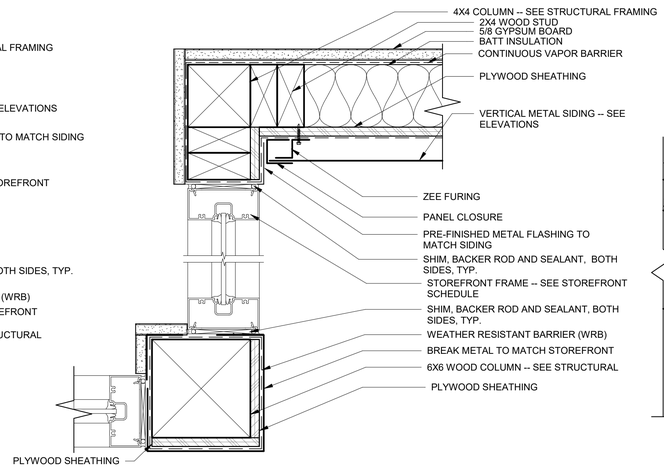
4 A6.02 STOREFRONT HEAD @ METAL SIDING
3" = 1'-0"



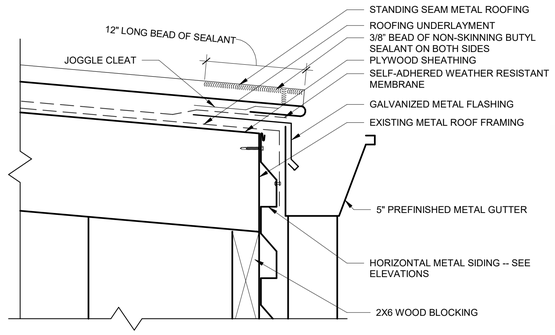
5 A6.02 STOREFRONT SILL DETAIL @ VESTIBULE
3" = 1'-0"



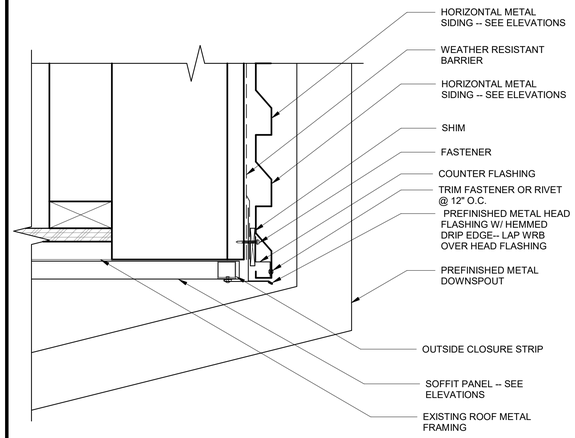
6 A6.02 STOREFRONT CORNER DETAILS - LEFT SIDE SECTION DETAIL
3" = 1'-0"



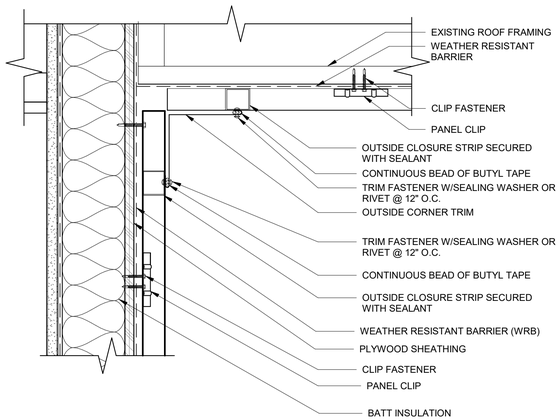
7 A6.02 STOREFRONT CORNER DETAILS - RIGHT SIDE SECTION DETAIL
3" = 1'-0"



8 A6.02 EAVE DETAIL
3" = 1'-0"



9 A6.02 CANOPY EAVE DETAIL
3" = 1'-0"



10 A6.02 SOFFIT AND METAL PANEL CONNECTION
3" = 1'-0"

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DRAWING TITLE:
EXTERIOR WALL DETAILS

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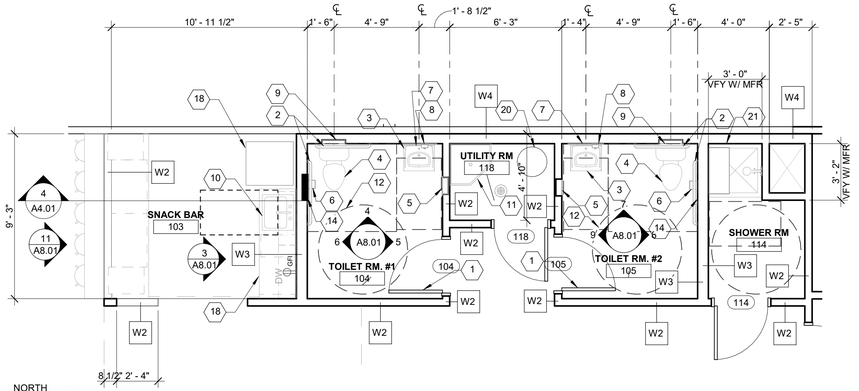
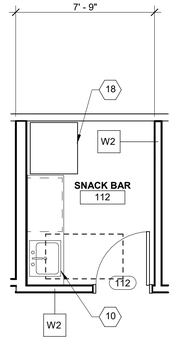
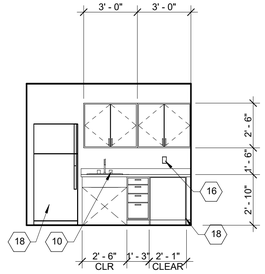


NORTH

1 A8.01 **ENLARGED KITCHENS AND TOILET ROOMS**
1/4" = 1'-0"



2 A8.01 **ENLARGED KITCHENETTE PLAN**
1/4" = 1'-0"



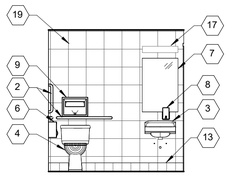
3 A8.01 **KITCHEN ELEVATION RM 103**
1/4" = 1'-0"

INTERIOR ELEVATION GENERAL NOTES

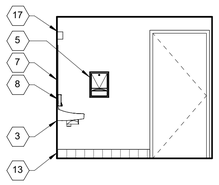
- CONTRACTOR TO VERIFY EXISTING CONDITIONS AND DIMENSIONS SHOWN OR IMPLIED PRIOR TO THE START OF CONSTRUCTION AND NOTIFY ARCHITECT/ENGINEER OF RECORD OF ANY DISCREPANCIES WHICH WILL AFFECT THE WORK
- SEE WALL TYPES AND FINISH PLANS FOR WALL FINISH INFORMATION
- SEE ACCESSIBILITY DETAILS ON A-801 FOR TYPICAL MOUNTING HEIGHTS AND CONFIGURATIONS

ENLARGED RESTROOM PLAN & ELEVATION KEYNOTES

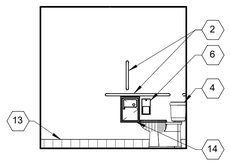
1. ACCESSIBLE SIGNAGE PER 5/A0.02
2. GRAB BARS PER 3/A0.03
3. ACCESSIBLE HAND-SINK W/ FAUCET PER 8/A0.02
4. FLOOR MOUNT ACCESSIBLE WATER CLOSET PER 3/A0.03
5. SEMI - RECESSED TOWEL DISPENSER/ DISPOSAL MOUNT PER 6/A0.02
6. TOILET TISSUE DISPENSER -- PROVIDE BLOCKING PER 3/A0.03
7. MIRROR PER 8/A0.02 -- SEE ELEVATIONS FOR DIMENSIONS
8. SOAP DISPENSER PER 8/A0.02
9. TOILET PROTECTOR SHEET DISPENSER
10. KITCHEN SINK WITH FORWARD APPROACH CLEAR SPACE SEE **7/A0.02**
11. MOP SINK
12. 5'-0" DIAMETER TURNING RADIUS
13. 6"H TILE COVE BASE
14. SANITARY NAPKIN DISPOSAL - PROVIDE BLOCKING
15. PLASTIC LAMINATE COUNTER TOP AND BACKSPLASH
16. GFCI ELECTRICAL OUTLET SPACED 4'-0" O.C. OR LESS BEHIND COUNTER
17. LIGHT SCONCE COORDINATE WITH ELECTRICAL, MOUNT @ 7'-0" AFF
18. OWNER FURNISHED APPLIANCE
19. WALL TILE -- FULL HEIGHT
20. WATER HEATER
21. TRANSFER-TYPE SHOWER COMPARTMENT
22. PARTIAL WALL WITH BAR TOP
23. HI-LOW DRINKING FOUNTAIN



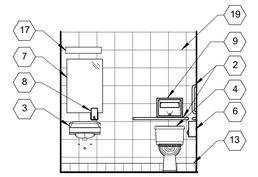
4 A8.01 **INTERIOR ELEVATION TOILET RM 104 (NORTH)**
1/4" = 1'-0"



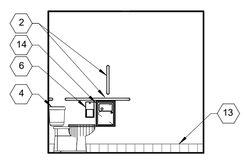
5 A8.01 **INTERIOR ELEVATION TOILET RM 104 (EAST)**
1/4" = 1'-0"



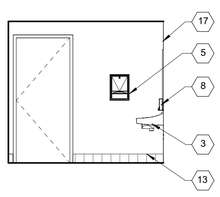
6 A8.01 **INTERIOR ELEVATION TOILET RM 104 (WEST)**
1/4" = 1'-0"



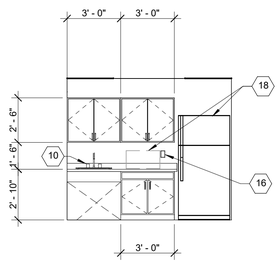
7 A8.01 **INTERIOR ELEVATION TOILET RM 105 (NORTH)**
1/4" = 1'-0"



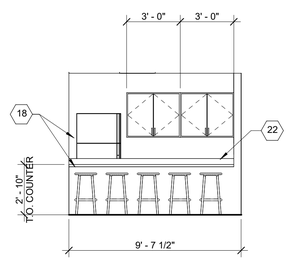
8 A8.01 **INTERIOR ELEVATION TOILET RM 105 (EAST)**
1/4" = 1'-0"



9 A8.01 **INTERIOR ELEVATION TOILET RM 105 (WEST)**
1/4" = 1'-0"



10 A8.01 **KITCHENETTE INTERIOR ELEVATION**
1/4" = 1'-0"



11 A8.01 **KITCHEN INTERIOR ELEVATION RM 103**
1/4" = 1'-0"

0	9/12/25	ISSUE FOR PERMIT
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2	11/18/25	ISSUE FOR CONSTRUCTION

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PEARSON FIELD
101 EAST RESERVE ST.
VANCOUVER, WA 98661

DRAWING TITLE:
ENLARGED RESTROOM PLAN AND ELEVATIONS
DRAWN BY: NBA
CHECKED BY: GGB

A8.01

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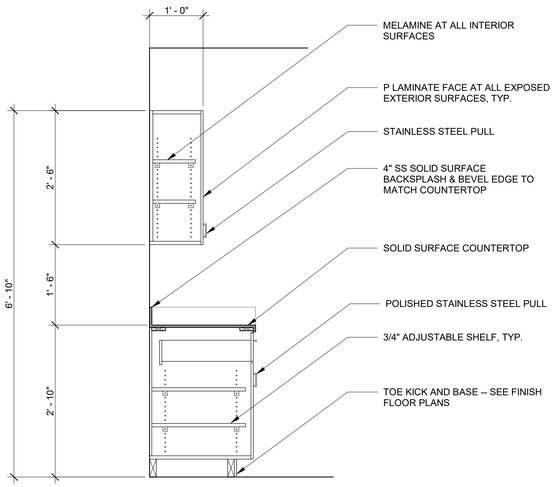
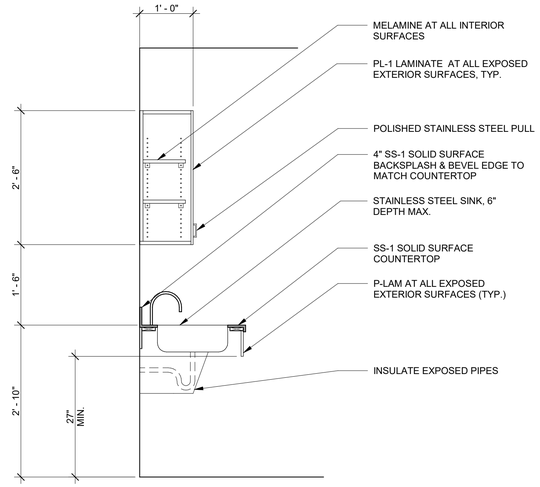


1 A8.02 **CABINET SECTION - TYPICAL**
3/4" = 1'-0"



2 A8.02 **CABINET SECTION AT SINK - TYPICAL**
3/4" = 1'-0"

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DRAWING TITLE:
CASEWORK DETAILS

DRAWN BY: NBA
CHECKED BY: GGB

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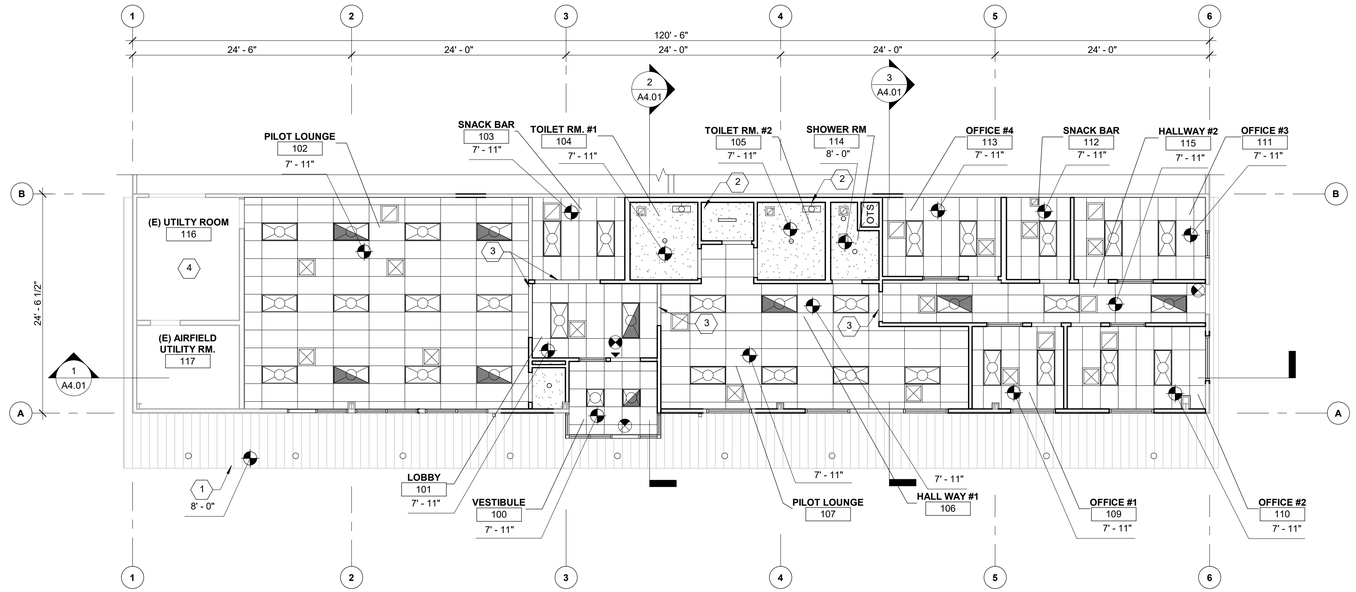

NORTH

1 A9.01 **REFLECTED CEILING PLAN**

1/8" = 1'-0"

REFLECTED CEILING PLAN GENERAL NOTES

- THIS DRAWING IS DIAGRAMMATIC AND FOR DESIGN PURPOSES ONLY. SEE ELECTRICAL DRAWINGS FOR LIGHTING LAYOUT AND TYPE
- SEE MECHANICAL DRAWINGS FOR DIFFUSER AND DUCTWORK LAYOUT.
- REFER TO SHEET A600 FOR STANDARD CEILING DETAILS
- CEILING GRID SHALL BE CENTERED IN ROOM OR SPACE UNLESS NOTED OTHERWISE.

REFLECTED CEILING PLAN LEGEND

0'-0" — BOTTOM OF FINISH CEILING ABOVE FINISH FLOOR ELEVATION

C-1: GYPSUM BOARD CEILING ON METAL JOIST FRAMING, SEE FINISH SCHEDULE

C-2: ACT-01 2' X 4' ACOUSTICAL TILE CEILING GRID, COLOR WHITE, SEE FINISH SCHEDULE

C-3: ACT-01 2' X 2' ACOUSTICAL TILE CEILING GRID, COLOR WHITE, SEE FINISH SCHEDULE

LIGHT FIXTURE -- SEE ELECTRICAL DRAWINGS

DIFFUSER -- SEE MECHANICAL DRAWINGS

EXIT SIGN -- SEE ELECTRICAL

REFLECTED CEILING PLAN KEYNOTES

1. (E) EXTERIOR SOFFIT OVERHANG W/ NEW METAL SOFFIT PANELS -- SEE A3.01 FOR MORE INFORMATION
2. WALL SCONCE LIGHT CENTERED ON MIRROR -- SEE ELECTRICAL
3. GYPSUM BOARD SOFFIT -- SEE DETAIL 9/A9.02
4. CEILING WORK NOT IN SCOPE -- NO CHANGES PROPOSED ASIDE FROM MODIFCATIONS NECESSARY TO ACCOMODATE NEW WORK INCLUDING HVAC DUCTWORK, ELECTRICAL RUNS, ETC.

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DRAWING TITLE:
REFLECTED CEILING PLAN

DRAWN BY: MAW
CHECKED BY: GGB

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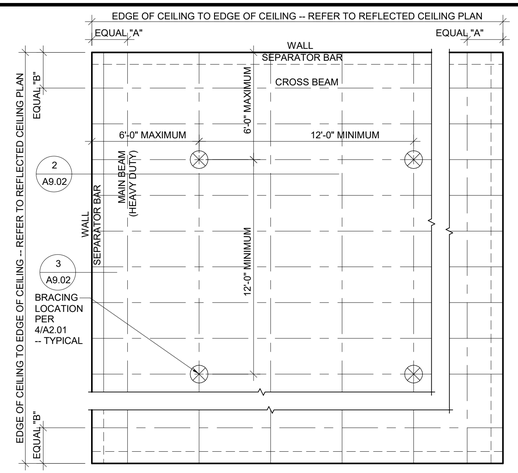
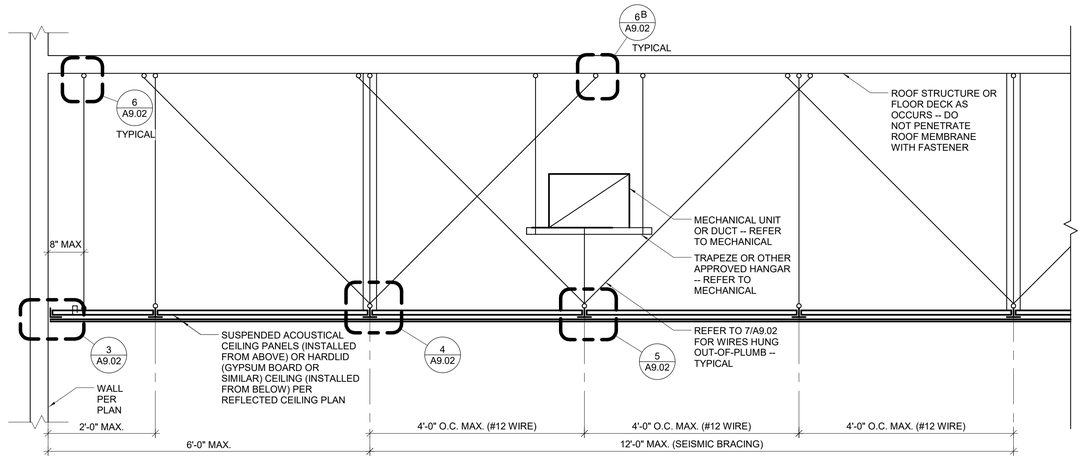


1 A9.02 TYPICAL SUSPENDED CEILING PLAN

1/4" = 1'-0"



2 A9.02 LATERAL BRACING FOR SUSPENDED CEILING

3/4" = 1'-0"

SUSPENDED CEILING GENERAL NOTES

CEILING DESIGN REQUIREMENTS PER ASCE 7, SECTION 13.5.6.2

WIRES:
- WIRE LOOPS SHALL HAVE A MINIMUM OF 3 TIGHT TURNS AROUND THEMSELVES WITHIN 3"
- SPLAY WIRES SHALL BE WITHIN 2" OF THE CONNECTION OF THE VERTICAL STRUTS.
- BRACING WIRES TO BE ATTACHED A MAXIMUM OF 45° TO THE PLANE OF THE CEILING AND PARALLEL TO THE COMPONENTS AT THE BRACING POINT. BRACE WIRES TO BE TAUT AND TIED BOTH ENDS WITH THREE TIGHT WRAPS.
- WIRES SHALL NOT ATTACH TO OR BEND AROUND INTERFERING MATERIALS OR EQUIPMENT. TRAPEZE OR EQUAL DEVICES SHALL BE USED WHERE OBSTRUCTIONS PRECLUDE DIRECT SUSPENSION.

BEAMS:
- MAIN BEAMS @ A MAXIMUM OF 4'-0" SHALL BE HD (HEAVY DUTY) PER ASTM E580 SECTION 5.1.1
- CONTINUOUS SPACE BAR TO BE LOOPED TO COMPONENTS ON THE UNATTACHED WALL.

COMPRESSION POSTS:
- STEEL STUD COMPRESSION POSTS @ 12'-0" O.C. MINIMUM AND A MAXIMUM OF 6'-0" FROM WALLS. CHANGES IN CEILING PLANES REQUIRE POSITIVE BRACING.

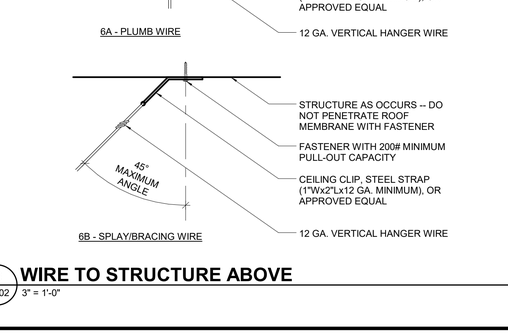
JOINTS:
- THE UNATTACHED PERIMETER SHALL HAVE A MINIMUM OF 1/2" CLEARANCE AT THE ENDS OF THE COMPONENTS.
- COMPONENT TERMINAL ENDS MUST BE SUPPORTED BY A 12 GA. HANGAR WIRE ON ALL WALLS.
- PROVIDE SEISMIC JOINTS AT A MINIMUM OF 30'-0" O.C. FOR CONTINUOUS RUNS GREATER THAN 40'-0". MAXIMUM AREA BETWEEN SEISMIC JOINT OR WALLS SHALL NOT EXCEED 2500 S.F. -- REFER TO 1/A9.02.

LIGHT SUPPORTS:
- LIGHT FIXTURES WEIGHING LESS THAN 10 LBS SHALL HAVE ONE 12-GAUGE HANGER WIRE CONNECTED FROM THE FIXTURE TO THE STRUCTURE ABOVE. THIS WIRE MAY BE SLACK.
- LIGHT FIXTURES WEIGHING MORE THAN 10 LBS AND LESS THAN 56 LBS SHALL HAVE ONE 12-GAUGE HANGER WIRE ATTACHED AT OPPOSITE CORNERS OF THE FIXTURE.
- LIGHT FIXTURES WEIGHING MORE THAN 56 LBS SHALL BE SUPPORTED FROM THE STRUCTURE ABOVE BY APPROVED HANGARS. MECHANICAL SUPPORTS AND BRACING NOT INCLUDED IN CEILING DESIGN:
- DESIGN BY OTHERS, SEE MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.

UTILITIES:
- PROVIDE 2" OVERSIZE ADAPTOR FOR SPRINKLER PIPE FITTINGS THROUGH CEILING TILES TO ALLOW FOR FREE MOVEMENT OF 1" ON ALL SIDES.

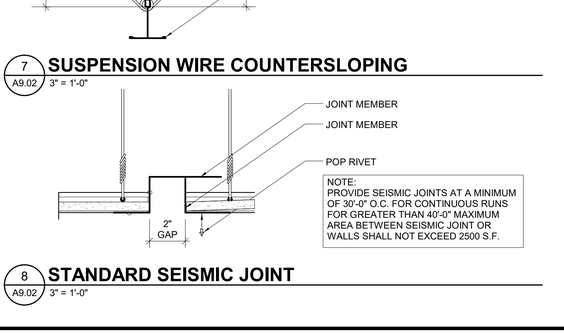
COMPRESSION POST SIZING CHART

COMPRESSIONS POST MEMBER	MAXIMUM HEIGHT FROM CEILING TO STRUCTURE ABOVE
1/2" EMT CONDUIT	5'-10"
3/4" EMT CONDUIT	7'-8"
1" EMT CONDUIT	9'-9"
SINGLE 1-5/8" 20 GA. METAL STUDS	12'-0"
BACK-TO-BACK 1-5/8" 20 GA. METAL STUDS	15'-0"
SINGLE 2-1/2" 20 GA. METAL STUDS	13'-6"
BACK-TO-BACK 2-1/2" 25 GA. METAL STUDS	15'-0"



3 A9.02 WALL MOLDING REQUIREMENTS

3" = 1'-0"

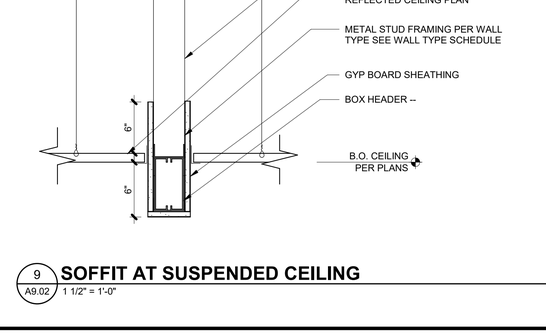


BRACING NOTES:
1. SPLAY WIRES SHALL BE WITHIN 2" OF THE CONNECTION OF THE VERTICAL STRUTS.
2. BRACING WIRES TO BE ATTACHED A MAXIMUM OF 45° TO THE PLANE OF THE CEILING AND PARALLEL TO THE COMPONENTS AT THE BRACING POINT. BRACE WIRES TO BE TAUT AND TIED BOTH ENDS WITH THREE TIGHT WRAPS.

PERIMETER NOTES:
3. THE UNATTACHED PERIMETER SHALL HAVE A MINIMUM OF 1/2 " CLEARANCE AT ENDS OF COMPONENTS.
4. CONTINUOUS SPACE BAR TO BE LOCKED TO COMPONENTS ON UNATTACHED WALL.
5. COMPONENT TERMINAL ENDS MUST BE SUPPORTED BY A 12 GA. HANGER WIRE ON ALL WALLS.

4 A9.02 SPLAY WIRE BRACING & COMPRESSION POST

3" = 1'-0"



5 A9.02 SPLAY WIRE AT OBSTRUCTION

3" = 1'-0"

6 A9.02 WIRE TO STRUCTURE ABOVE

3" = 1'-0"

7 A9.02 SUSPENSION WIRE COUNTERSLOPING

3" = 1'-0"

8 A9.02 STANDARD SEISMIC JOINT

3" = 1'-0"

9 A9.02 SOFFIT AT SUSPENDED CEILING

1 1/2" = 1'-0"

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DRAWING TITLE:
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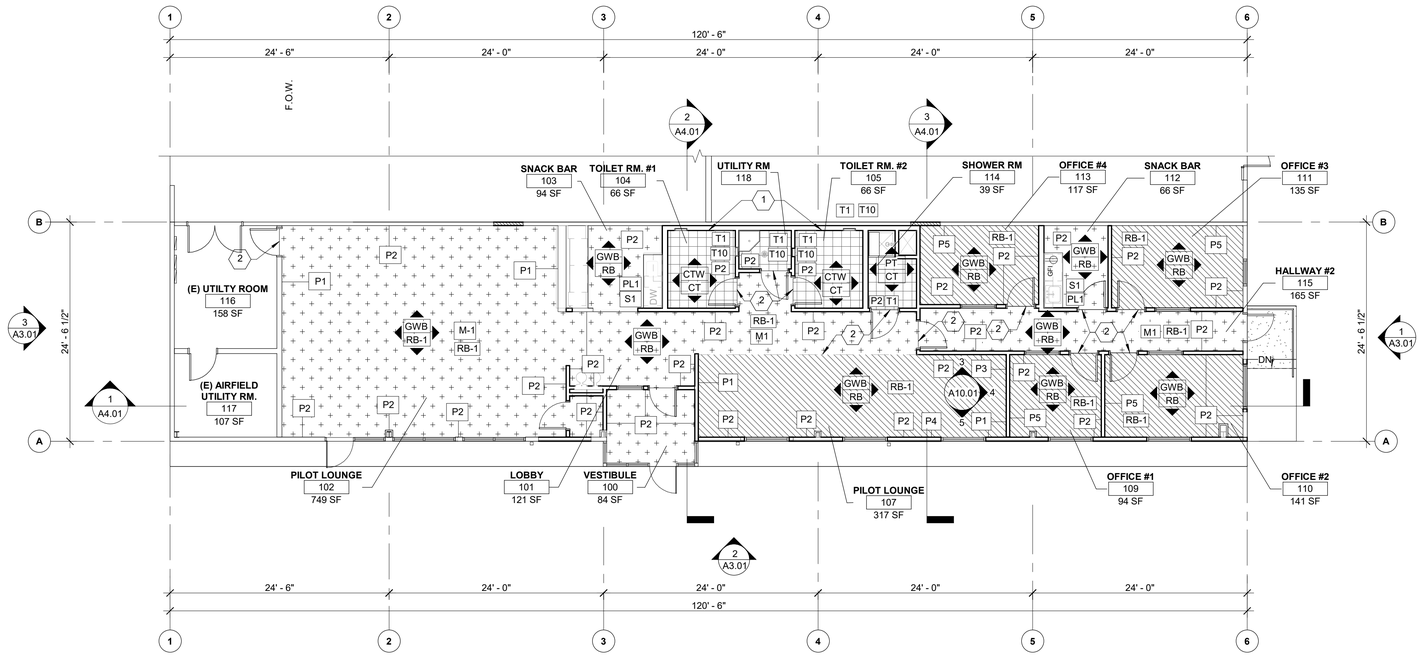


NORTH

1 A10.01 **FINISH PLAN**

1/8" = 1'-0"

FLOOR AND WALL FINISH NOTES

- PROVIDE GREEN BOARD AT ALL WET LOCATIONS INCLUDING TOILET ROOMS AND LOCKER ROOMS, AND ALL SINKS.
- PAINT ALL EXPOSED INTERIOR STEEL, INCLUDING COLUMNS, BEAMS, JOISTS, STEEL DECK, ETC.
- PROVIDE UNDER-SLAB VAPOR BARRIER AT ALL LOCATIONS TO RECEIVE FLOOR FINISHES.
- SEE ENLARGED FLOOR PLANS & WALL TYPE SCHEDULE FOR WALL CONSTRUCTION INFORMATION.
- SEE FINISH SCHEDULE FOR MANUFACTURER, MATERIAL, AND COLOR SELECTIONS.

FLOOR FINISH LEGEND

Room name 101 — ROOM TAG

SEALED CONCRETE

12"x24" CERAMIC FLOOR TILE - T1

CARPET TILE - CPT1

RESILIENT FLOORING - M1

WALL FINISH LEGEND

XX / XX — WALL FINISH MATERIAL -- SEE DESIGNATIONS BELOW / BASE FINISH MATERIAL -- SEE DESIGNATIONS BELOW

XX / XX — ROOM OR SPACE WITH THE SAME WALL FINISH AND BASE ON ALL WALLS, INCLUDING COLUMN FURRING

WALL DESIGNATIONS

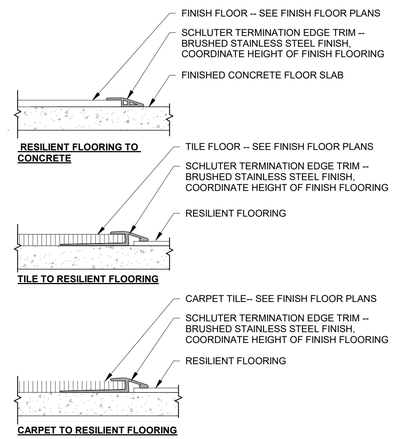
GWB	GYPSUM WALL BOARD - TAPED, SPACKLED, AND PAINTED
CTW	GYPSUM WALL BOARD WITH CERAMIC TILE, FULL HEIGHT.
PX	PAINT

BASE DESIGNATIONS

RB-1	4" RESILIENT BASE
CT	TILE COVE BASE

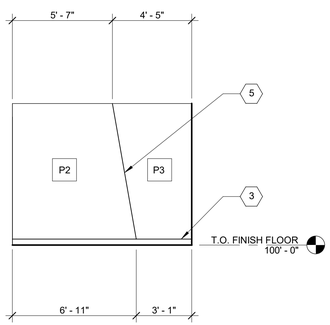
FINISH FLOOR PLAN KEYNOTES

1. CERAMIC TILE WALL, FULL HEIGHT -- REFER TO ENLARGED RESTROOM PLAN & ELEVATIONS SHEET
2. PROVIDE FLOOR FINISH TRANSITION SEE DETAIL 2/A10.01
3. 4" RUBBER BASE
4. EXISTING COLUMN -- PAINT P2 TO MATCH WALL
5. DIAGONAL LINE INDICATING PAINT PATTERN SEPARATING COLORS



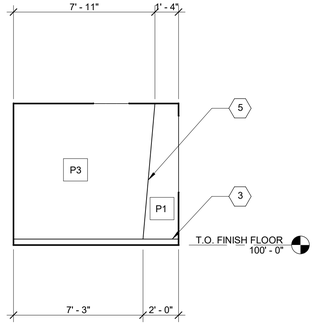
2 A10.01 **FLOOR FINISH EDGE TRANSITION**

6" = 1'-0"



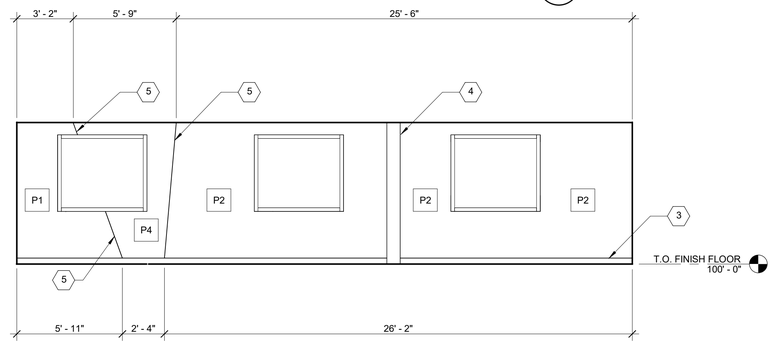
3 A10.01 **PAINT PATTERN ON NORTH WALL - RM 107**

1/4" = 1'-0"



4 A10.01 **PAINT PATTERN ON EAST WALL - RM 107**

1/4" = 1'-0"



5 A10.01 **PAINT PATTERN ON SOUTH WALL - RM 107**

1/4" = 1'-0"

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101 EAST RESERVE ST.
VANCOUVER, WA 98661

DRAWING TITLE:
FLOOR AND WALL FINISH PLANS

DRAWN BY: NBA
CHECKED BY: GGB

A10.01

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INTERIOR FINISH SCHEDULE						
MATERIAL TAG	**MATERIAL**	**MANUFACTURER**	**LOCATION**	**STYLE**	**COLOR**	**PATTERN**
FLOOR FINISHES						
TILE						
T1	GLAZED PORCELAIN TILE	DALTILE	TOILET ROOMS AND SHOWER ROOM	12X12, VOLUME 1.0	AMPLIFY BLACK VL70	GRID PATTERN
FLOORING						
M1	MARMOLEUM	FORBO FLOORING SYSTEMS	PILOT LOUNGE 102, VESTIBULE, LOBBY, SNACK BARS, HALLWAYS	NCS S 7500-N / DECIBEL	3872 VOLCANIC ASH	PER FINISH PLAN
CARPET						
CPT1	CARPET TILE	MOHAWK GROUP	OFFICES	URBAN FRINGE 989 DARKLANDS	989 DARKLANDS	PER FINISH PLAN
RUBBER BASE						
RB-1	RUBBER COVE BASE	FLEXCO	WHERE CARPET AND MARMOLEUM IS INSTALLED	WALL BASE	01 BLACK DAHLIA	PER FINISH PLAN
WALL FINISHES						
PAINT						
P1	PAINT	SHERWIN WILLIAMS	PILOT LOUNGE ROOMS 102 AND 107	EGGSHELL SHEEN	SW 7068 GRIZZLE GRAY	LEVEL 4 DRYWALL FINISH
P2	PAINT	SHERWIN WILLIAMS	INTERIOR WALL PAINT	EGGSHELL SHEEN/ SATIN IN TOILET AND SHOWER ROOMS	SW 7004 SNOWBOUND	LEVEL 4 DRYWALL FINISH
P3	PAINT	SHERWIN WILLIAMS	PILOT LOUNGE RM 107	EGGSHELL SHEEN	SW 0020 PEACOCK PLUME	LEVEL 4 DRYWALL FINISH
P4	PAINT	SHERWIN WILLIAMS	PILOT LOUNGE RM 107	EGGSHELL SHEEN	SW 0031 DUTCH TILE BLUE	LEVEL 4 DRYWALL FINISH
P5	PAINT	SHERWIN WILLIAMS	INTERIOR OFFICE ACCENT WALL	EGGSHELL SHEEN	SW 9644 PORTSMOUTH	LEVEL 4 DRYWALL FINISH
CEILING FINISHES						
C-1	PAINT	SHERWIN WILLIAMS	GYPSUM BOARD CEILINGS AND SOFFITS	FLAT SHEEN	SW 7007 CEILING BRIGHT WHITE	
C-2	ACOUSTICAL CEILING PANELS	ARMSTRONG	PER REFLECTED CEILING PLAN	24X48 CIRRUS HIGH NRC, TEGULAR	WHITE	--
C-3	ACOUSTICAL CEILING PANELS	ARMSTRONG	PER REFLECTED CEILING PLAN	24X24 CIRRUS HIGH NRC, TEGULAR	WHITE	--
WALL TILE						
T-10	GLAZED PORCELAIN TILE	DALTILE	TOILET ROOMS WALL TILE	12X12, VOLUME 1.0	AMPLIFY BLACK VL70	GRID PATTERN
CT	GLAZED PORCELAIN COVE TILE	DALTILE	TOILET ROOMS COVE BASE	6X6, VOLUME 1.0	AMPLIFY BLACK VL70	GRID PATTERN
GROUT 10	EPOXY GROUT	MAPEI	--	KERAPOXY CQ	5027 SILVER	ALIGN WITH FLOOR TILE
MISC. BUILDING ELEMENTS						
	HVAC DUCTS AND GRILLS	PER MECHANICAL	PER MECHANICAL	PER MECHANICAL	WHITE	FACTORY FINISHED
	ELECTRICAL DEVISES & LIGHT TRIMS	PER ELECTRICAL	PER ELECTRICAL	PER ELECTRICAL	WHITE	FACTORY FINISHED
DOORS AND WINDOWS						
INTERIOR DOOR FRAMES	PAINT	SHERWIN WILLIAMS	DOOR FRAMES PER DOOR SCHEDULE	SEMI-GLOSS SHEEN	SW7674 PEPPERCORN	--
CABINETRY FINISHES						
S-1	SOLID SURFACE	WILSONART	SNACK BAR COUNTERTOPS	BULLNOSE	1573MG FROSTY WHITE MIRAGE	
PL-1	LAMINATE CABINET SURFACE	WILSONART	SNACK BAR CABINETS	FINISH 79 RIDGEWOOD	8248 BLACK HILLS OAK	

FINISHES GENERAL NOTES

- THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION OF SUBCONTRACTOR'S WORK.
- THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL FINISHES DURING CONSTRUCTION AND WHEN STORED AFTER RECEIVING FOR THE PROJECT.
- THE FINISHES INDICATED ON THE DRAWINGS ARE SCHEMATIC. NOT EVERY INTERIOR SURFACE MAY BE SHOWN IN THE DRAWINGS. FINISHES SHALL EXTEND AROUND COLUMNS, THE SIDES OF BUMP-OUT, AND INTERIOR (HIDDEN) SIDES OF RECESSES AS REASONABLY IMPLIED BY THE DESIGN. THE CONTRACTOR SHALL REQUEST ADDITIONAL INFORMATION TO VERIFY THE DESIGN INTENT OF FINISHES AT SUCH LOCATIONS.
- ALL NEW CONSTRUCTION SHALL BE LEVEL, PLUM, AND TRUE TO WITHIN 1/8" PER 10'-0" UNLESS UNPRACTICAL TO DO SO BASED ON EXISTING CONDITIONS. NOTIFY THE ARCHITECT IN WRITING OF CONDITIONS WHICH WILL PREVENT A LEVEL, PLUM, AND TRUE LAYOUT IMMEDIATELY WHEN ENCOUNTERED.
- BUILDING UTILITIES SHALL BE INSTALLED IN CONSISTENT DIMENSIONAL ALIGNMENT.
- ADJACENT FINISHES SHALL BE INSTALLED FOR SMOOTH, SEAMLESS TRANSITIONS.
- THE GENERAL CONTRACTOR SHALL DETERMINE THE EFFECT OF CONSTRUCTION ACTIVITIES BY OWNER'S PERSONNEL AND OWNER SUPPLIED SUBCONTRACTORS. ADDITIONAL COMPENSATION WILL NOT BE GIVEN FOR DELAYS CAUSED BY OWNER'S PERSONNEL AND OWNER SUPPLIED SUB-CONTRACTORS WORKING ON THE SITE.
- PATCH AND REPAIR WALL EXISTING CONDITIONS DAMAGED BY DEMOLITION OR CONSTRUCTION ACTIVITIES TO A LIKE NEW CONDITION FOR A SEAMLESS APPEARANCE BETWEEN EXISTING, REPAIRED, AND NEW CONSTRUCTION.
- THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING ALL MATERIALS CONFORM TO THE CONTRACT DOCUMENTS. SUBSTITUTIONS SHALL ONLY BE ALLOWED WITH PRIOR APPROVAL OF THE ARCHITECT AND THE OWNER THROUGH THE SUBSTITUTION SUBMITTAL PROCESS. SUBSTITUTIONS SHALL NOT BE MADE AS A PART OF THE MATERIAL SUBMITTAL OR RFI PROCESSES. APPROVAL OF THE MANUFACTURER SHALL NOT RELIEVE THE CONTRACTOR OF RESPONSIBILITY FOR PROVIDING THE MATERIALS PER THE CONTRACT DOCUMENTS.
- ANY DISCREPANCIES OR INCONSISTENCIES IN THESE DOCUMENTS WITH EACH OTHER OR WITH FIELD CONDITIONS SHALL IMMEDIATELY BE BROUGHT TO THE ATTENTION OF THE ARCHITECT IN WRITING BEFORE PROCEEDING WITH THE WORK FOR DIRECTION. CONTRACTORS PROCEEDING WITHOUT SAID DIRECTION ASSUME ALL LIABILITY AND COSTS FOR CONSTRUCTION OF WORK INCORRECTLY INSTALLED.
- PROVIDE ALL ADEQUATE SUBSTRATE SUPPORTS FOR MATERIALS MOUNTED ON OR AFFIXED TO OTHER SURFACES INCLUDING WALLS, BRACKETS, CABINETS, ETC. WEATHER OR NOT SPECIFICALLY SHOWN IN THE CONSTRUCTION DRAWINGS.
- THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ARCHITECT IF THERE ARE ANY CONDITIONS THAT PREVENT THE WORK FROM COMPLYING WITH ALL NOTES CALLED FOR IN THE CONSTRUCTION DOCUMENTS.
- THE CONSTRUCTION DOCUMENTS ARE INTENDED TO BE CONCEPTUAL IN NATURE AND REPRESENTATIVE OF THE DESIGN INTENT. THE DOCUMENTS ARE IN NO WAY INTENDED TO REPRESENT A COMPLETE MILLWORK PACKAGE OR DETAILED SHOP DRAWINGS THAT SHALL BE PROVIDED AS A PART OF THE CONTRACTOR'S SCOPE OF WORK.
- ALL WOOD VENEER PLYWOOD, MILLWORK, AND BLOCKING SHALL BE IN COMPLIANCE WITH ALL FIRE CODE REQUIREMENTS. FINISH SAMPLES SHALL BE PROVIDE TO THE ARCHITECT FOR APPROVAL.
- WHERE IT IS DEEMED NECESSARY TO INSURE STABILITY, PROVIDE ADDITIONAL ANCHORING AND/OR BLOCKING IN STUD PARTITIONS FOR MILLWORK.
- PAINT COLORS INDICATED ON THE SCHEDULE ARE INTENDED TO GIVE COLOR AND SHEEN INDICATION ONLY. SAMPLES FROM LOCAL SOURCES TO BE SUBMITTED FOR WRITTEN APPROVAL PRIOR TO APPLICAITON ON ANY FINISH SURFACE.
- WHERE NEW GYPSUM BOARD PARTITIONS ARE A CONTINUATION OF AN EXISTING PARTITION, THE FACE OF THE NEW GYPSUM BOARD SHALL BE ALIGNED WITH THE FACE OF THE EXISTING SURFACE.
- THE CONTRACTOR SHALL ASK FOR DETAILS AND/OR INSTRUCTIONS WHEN UNCERTAIN HOW TO PROCEED. THE LACK OF NOT REQUESTING DETAILS DOES NOT EXCUSE SLOPPY OR IMPROPER WORK. CORRECTIONS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AT NO COST TO THE OWNER.
- THE JOB SITE SHALL BE KEPT IN A CLEAN AND WORKMAN LIKE CONDITION. DEBRIS SHALL BE REMOVED FROM THE SITE DAILY.
- ALL FINISHES SHALL BE INSTALLED PER THE MANUFACTURER'S PRINTED INSTRUCTIONS.
- ALL FINISH MATERIALS SHALL BE REVIEWED BY THE ARCHITECT AND OWNERS AS A PART OF THE SUBMITTAL PROCESS.
- THE GENERAL CONTRACTOR SHALL PROVIDE THE OWNER WITH ALL MAINTENANCE CARE PROCESS DOCUMENTATION AS A PART OF THE PROJECT CLOSE-OUT.
- THE GENERAL CONTRACTOR SHALL CLEAN ALL SURFACES AND FINISHES TO REMOVE ALL MARKS, INCLUDING FINGER PRINTS, PRIOR TO THE OWNER MOVE IN.
- SUBSTRATE FOR ALL TILE SHALL BE CEMENT, FIBER-CEMENT, OR GLASS MAT GYPSUM BACKERS IN COMPLIANCE WITH ASTM C 117, C 1288, OR C1325 AND INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S PRINTED INSTRUCTIONS.
- PROVIDE GREEN BOARD AT ALL WET LOCATIONS INCLUDING TOILET ROOMS, SHOWERS AND AT ALL SINKS.
  - MOISTURE RESISTANT GYPSUM BOARD AT ALL PAINTED AND FRP LOCATIONS
  - BACKER BOARD AT ALL LOCATIONS TO RECEIVE TILE
- SEE FLOOR PLAN FOR LOCATION OF FIRE-RATED WALLS AND ASSEMBLIES
  - SUBSTRATES AND FINISHES SHALL COMPLY WITH THE INDICATED ASSEMBLIES
- PAINT STEEL AND OTHER SURFACES THAT ARE NOT PREFINISHED, GALVANIZED, OR STAINLESS INCLUDING:
  - STEEL PIPE GUARDRAILS AND HANDRAILS
  - HOLLOW METAL DOOR AND RELITE FRAMES, UNLESS FACTORY FINISHED
- MANUFACTURER AND PRODUCT ARE BASIS OF DESIGN PRODUCTS. SUBSTITUTIONS ARE PERMITTED IN ACCORDANCE WITH THE SUBSTITUTION PROCEDURES IN THE SPECIFICATIONS.

0 11/18/25 ISSUE FOR CONSTRUCTION

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CITY OF Vancouver WASHINGTON

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DRAWING TITLE:
INTERIOR FINISHES SCHEDULE
DRAWN BY: NBA
CHECKED BY: GGB

A10.02

ISSUE FOR CONSTRUCTION

FAA GRANT #3-53-0139-022-2026

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CODE

2021 INTERNATIONAL BUILDING CODE WITH WASHINGTON STATE AMENDMENTS.

GENERAL STRUCTURAL NOTES

1. THE CONTRACT STRUCTURAL DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE. THEY DO NOT INDICATE THE METHOD OF CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE AND IS RESPONSIBLE FOR ALL MEASURES NECESSARY TO PROTECT THE STRUCTURE DURING CONSTRUCTION. SUCH MEASURES MAY INCLUDE BUT ARE NOT LIMITED TO; ERECTION MEANS METHODS AND SEQUENCING, BRACING, TEMPORARY SHORING, FORMWORK, JOB SITE SAFETY, AND/OR LOAD EFFECTS DUE TO CONSTRUCTION EQUIPMENT
   1.1. CONSTRUCTION MATERIAL ON STRUCTURES SHALL BE SPREAD OUT IN A MANNER AS TO NOT EXCEED THE DESIGN LIVE LOAD PER SQUARE FOOT.
   1.2. VISITS TO THE SITE BY THE ENGINEER OF RECORD SHALL NOT INCLUDE INSPECTION OF THE ABOVE ITEMS.
2. THE CONTRACTOR SHALL REVIEW AND REPORT ANY DISCREPANCIES FOUND AMONG THE CONSTRUCTION DRAWINGS, SPECIFICATIONS AND THE EXISTING SITE CONDITIONS PRIOR TO START OF CONSTRUCTION AND REPORT ANY DISCREPANCY TO THE ENGINEER OF RECORD WHO SHALL CORRECT SUCH DISCREPANCIES IN WRITING.
   2.1. ANY WORK PERFORMED BY THE CONTRACTOR AFTER DISCOVERY OF SUCH DISCREPANCIES, BUT BEFORE A WRITTEN CORRECTION IS PROVIDED, SHALL BE AT THE CONTRACTOR'S RISK.
   2.2. WHERE ANY DISCREPANCIES OCCUR BETWEEN PLANS, DETAILS, GENERAL STRUCTURAL NOTES OR SPECIFICATIONS, THE GREATER REQUIREMENTS SHALL GOVERN.
3. THE CONTRACTOR AND SUBCONTRACTORS SHALL BE RESPONSIBLE TO COORDINATE BETWEEN DISCIPLINES INCLUDING BUT NOT LIMITED TO;
   3.1. VERIFICATION OF ALL DIMENSIONS INDICATED ON THE ARCHITECTURAL AND STRUCTURAL DRAWINGS
   3.2. VERIFICATION OF ALL ELEVATIONS INDICATED ON THE ARCHITECTURAL AND STRUCTURAL DRAWINGS
   3.3. VERIFICATION OF ALL MECHANICAL, ELECTRICAL, AND/OR PROCESS EQUIPMENT LOCATIONS AND WEIGHTS
   3.4. VERIFICATION OF LOCATIONS AND SIZE OF ALL MECHANICAL, ELECTRICAL AND PLUMBING PENETRATIONS THROUGH WALLS, FLOORS AND/OR ROOFS
4. OPTIONS ARE PROVIDED FOR CONTRACTOR'S CONVENIENCE, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY AND ALL CHANGES NECESSARY, AND SHALL COORDINATE ALL DETAILS.
5. ANY ENGINEERING DESIGN PROVIDED BY OTHERS AND SUBMITTED FOR REVIEW SHALL BEAR THE SEAL OF AN ENGINEER REGISTERED IN THE SAME STATE IN WHICH THE PROJECT IS LOCATED.
6. ALL DETAIL CUTS SHOULD BE CONSIDERED TYPICAL AT LIKE CONDITIONS, UNLESS NOTED.
7. WHERE REFERENCE IS MADE TO VARIOUS TEST STANDARDS FOR MATERIALS, SUCH STANDARDS SHALL BE THE LATEST EDITION AND/OR ADDENDUM.

LOADS:

1. DEAD LOADS: ANY CHANGES IN CONSTRUCTION MATERIALS FROM THOSE SHOWN ON THE ARCHITECTURAL OR STRUCTURAL DRAWINGS SHALL BE REPORTED BY THE GENERAL CONTRACTOR TO THE STRUCTURAL ENGINEER FOR VERIFICATION OF LOAD-CARRYING CAPACITY OF THE STRUCTURE.

2. LIVE LOADS: LIVE LOAD REDUCTION HAVE BEEN APPLIED TO THE STRUCTURAL MEMBERS IN ACCORDANCE WITH THE BUILDING CODE.
   ROOF ---------- 20 PSF
   FLOORS ---------- 100 PSF

3. SNOW LOAD:
   A. GROUND SNOW LOAD (Pg) ---------- 30 PSF
   B. IMPORTANCE FACTOR (I) ---------- 1.0
   C. EXPOSURE FACTOR (Ce)---------- 0.9
   D. THERMAL FACTOR (Ct)---------- 1.0
   E. FLAT ROOF SNOW LOAD (Pt)---------- 25 PSF
   F. DESIGN SNOW LOAD (Ps)---------- 25 PSF

4. WIND LOADS:
   A. BASIC WIND SPEED ---------- 135 MPH
   B. WIND IMPORTANCE FACTOR (Iw) ---------- 1.0
   C. WIND EXPOSURE ---------- C
   D. INTERNAL PRESSURE COEFFICIENT ---------- +/- 0.18
   E. DESIGN WIND PRESSURE ---------- +39.8/-53.2 PSF C&C (ZONE 5, 10 SF)

5. SEISMIC LOADS:
   A. SEISMIC IMPORTANCE FACTOR (Ie)---------- 1.0
   B. MAPPED SPECTRAL RESPONSE ACCELERATIONS:
      Ss---------- 0.837
      S1---------- 0.379
      SITE CLASS---------- D
      SPECTRAL RESPONSE COEFFICIENTS:
      Sds---------- 0.669
      Sd1---------- N/A
   C. SEISMIC DESIGN CATEGORY---------- D

6. SOILS:
   A. MAXIMUM ALLOWABLE SOIL BEARING---------- 1500PSF

METALS

1. MISCELLANEOUS STRUCTURAL STEEL TO BE ASTM A36, FY = 36 KSI, UNLESS NOTED OTHERWISE.
2. STRUCTURAL STEEL BEAMS AND WIDE FLANGE COLUMNS TO BE ASTM A992 FY=50 KSI, UNLESS NOTED OTHERWISE.
3. TUBES TO BE ASTM A500 Gr. B, FY = 46 KSI.
4. PIPES TO BE ASTM A53 Gr. B, FY = 36 KSI.
5. BOLTS TO BE ASTM A307 Gr. A, UNLESS NOTED OTHERWISE.
6. WELDING TO BE BY CERTIFIED WELDERS USING E70XX ELECTRODES IN ACCORDANCE WITH AWS STANDARDS.
7. WELDS DESIGNATED AS DEMAND CRITICAL SHALL BE MADE WITH FILLER METALS MEETING THE REQUIREMENTS SPECIFIED IN AWS D1.8/D1.8M CLAUSE 6.3
8. ALL STEEL TO HAVE A SHOP COAT.
9. STEEL FABRICATOR TO SUBMIT SHOP DRAWINGS TO A/E FOR REVIEW PRIOR TO FABRICATION.
10. STEEL WASHERS TO BE USED AT ALL BOLTED CONDITIONS.
11. BRACING RODS TO BE INSTALLED TAUT, ONE STANDARD TURNBUCKLE PER ROD MAY BE USED.
12. LATEST AISC, SJI AND AWS CODES APPLY. ALL CONSTRUCTION PER LATEST AISC HANDBOOK.
13. ALL EXPANSION ANCHORS SHALL BE SIMPSON STRONG BOLT OR APPROVED EQUAL.
14. ALL ADHESIVE ANCHORS TO BE SIMPSON SET-XP ADHESIVE ANCHORS OR APPROVED EQUAL.
15. ALL REFERENCE TO HEADED STUDS (HWS) SHALL INDICATE AUTOMATIC WELDED HEADED STUDS (NELSON OR APPROVED EQUAL).
16. ALL REFERENCE TO POWDER DRIVEN ANCHORS (PDA'S) SHALL BE SIMPSON 0.145" DIA. x 3" LONG PDP OR APPROVED EQUAL.

CARPENTRY

1. ALL NAILS TO BE COMMON WIRE OR EQUIVALENT DIAMETER AND LENGTH.
2. ALL NAILING TO BE IN ACCORDANCE WITH THE INTERNATIONAL BUILDING CODE TABLE 2304.9.1 UNLESS NOTED OTHERWISE.
3. ALL FRAMING HARDWARE TO BE SIMPSON STRONG-TIE BRAND OR EQUIVALENT SPECIFICALLY APPROVED BY THE ENGINEER OF RECORD.
4. LUMBER GRADES
   GLULAM BEAMS:
   24F-V8 DF/DF AT CANTILEVERS AND 24F-V4 DF/DF AT OTHER CONDITIONS
   SOLID SAWN LUMBER:
   DOUGLAS FIR-LARCH #2 OR BETTER, UNLESS NOTED OTHERWISE
5. PLYWOOD
   FLOOR SHEATHING: 3/4" APA INDEX 48/24, EXPOSURE 1
   ROOF SHEATHING: 5/8" APA INDEX 40/20, EXPOSURE 1
   WALL SHEATHING: 1/2" APA INDEX 24/0, EXPOSURE 1
   NAIL AS SHOWN ON PLANS
6. DRILL BOLT HOLES 1/16" OVERSIZE EXCEPT WHERE NOTED LARGER.
7. DO NOT NOTCH OR DRILL JOISTS, BEAMS, COLUMNS OR LOAD BEARING STUDS WITHOUT PRIOR APPROVAL OF ENGINEER OF RECORD.
8. PROVIDE ADDITIONAL DOUBLE FLOOR JOISTS UNDER PARTITIONS AND NON-BEARING WALLS.
9. LOCATE STUDS DIRECTLY BELOW JOIST BEARINGS UNLESS NOTED OTHERWISE.
10. DOUBLE UP STUDS AT JAMBS AND UNDER BEAMS IN BEARING WALLS, UNLESS NOTED OTHERWISE.
11. PROVIDE 2x SOLID BLOCKING AT MID-HEIGHT OF BEARING STUD WALLS.
12. PROVIDE 3x3x1/4" THICK STEEL PLATE WASHERS AT ANCHORAGE OF WOOD SHEARWALL SILL PLATES TO CONCRETE.
13. WOOD IN PERMANENT CONTACT WITH CONCRETE TO BE PRESSURE TREATED ALL FASTENERS DRIVEN INTO PRESSURE TREATED WOOD SHALL BE CORROSION RESISTANT.

FOUNDATION

1. FOUNDATIONS TO BEAR ON NATURAL UNDISTURBED SOIL FREE OF ORGANIC MATTER, OR AN ENGINEERED FILL.
2. BOTTOM OF FOOTINGS TO BE A MINIMUM OF 12" BELOW FINISHED GRADE PER LOCAL JURISDICTION.

CONCRETE

1. MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS
   FOUNDATIONS 3,500 PSI
   SLABS 3,500 PSI
2. CONCRETE TO HAVE A MAXIMUM WATER/CEMENT RATIOS PER ACI 318 TABLE 4.3.1 (PROPORTIONING ON THE BASIS OF FIELD EXPERIENCE AND/OR TRIAL MIXTURES). THESE MAXIMUMS MAY BE EXCEEDED IF TEST RECORDS, PER SECTION 5.3 OF ACI 318, ARE SUBMITTED TO AND APPROVED BY THE ENGINEER.
3. MAXIMUM SLUMP 3" PLUS OR MINUS 1"
4. SAWCUT CONTROL JOINTS 1/4 SLAB DEPTH.
5. CONCRETE AND REINFORCING TO HAVE SPECIAL INSPECTION IN ACCORDANCE WITH IBC CHAPTER 17.
6. MECHANICALLY VIBRATE ALL CONCRETE WHEN PLACED, EXCEPT THAT SLABS ON GRADE MAY BE VIBRATED ONLY AROUND UNDER-FLOOR DUCTS, ETC..

REINFORCING

1. DEFORMED BARS SHALL CONFORM TO THE REQUIREMENTS OF ASTM A615, GRADE 60. WELDED BARS ASTM A706, GRADE 60. WELDED WIRE FABRIC PER ASTM A185, AND WIRE PER ASTM A82.
2. UNLESS NOTED OTHERWISE, LAP SPLICES SHALL BE CLASS 'B' TENSION LAP SPLICES IN ACCORDANCE WITH ACI 318, CHAPTER 12. LAP SPLICES IN COLUMNS SHALL BE STANDARD COMPRESSION LAP SPLICES PER LATEST EDITION OF ACI 318. STAGGER ALTERNATE SPLICES A MINIMUM OF ONE LAP LENGTH. LAPS IN WELDED WIRE FABRIC SHALL BE MADE SO THAT THE OVERLAP MEASURED BETWEEN OUTERMOST CROSS WIRES OF EACH FABRIC SHEET IS NOT LESS THAN THE SPACING OF CROSS WIRES PLUS 2".
3. PROVIDE BENT CORNER BARS TO MATCH AND LAP WITH HORIZONTAL BARS AT CORNERS AND INTERSECTIONS OF FOOTING AND WALLS. REINFORCING BAR SPACING GIVEN ARE MAXIMUM ON CENTERS. ALL BARS PER CRSI SPECIFICATIONS AND HANDBOOK. DOWEL ALL VERTICAL REINFORCING TO FOUNDATION. SECURELY TIE ALL BARS IN LOCATION BEFORE PLACING CONCRETE. CONCRETE COLUMN DOWEL EMBEDMENTS SHALL BE A STANDARD COMPRESSION DOWEL EMBEDMENT LENGTH ACCORDING TO THE LATEST EDITION OF ACI 318.
4. CLEAR CONCRETE COVERAGE AS FOLLOWS FOR CAST-IN-PLACE
   CAST AGAINST & PERMANENTLY EXPOSED TO EARTH: 3"
   EXPOSED TO EARTH OR WEATHER & #6 OR LARGER: 2"
   EXPOSED TO EARTH OR WEATHER & #5 OR SMALLER: 1 1/2"
   COLUMNS (TO TIES): 1 1/2"
   BEAMS (TO STIRRUPS): 1 1/2"
   ALL OTHERS PER LATEST EDITION OF ACI 318.

GENERAL NOTES ON INSPECTIONS

1. INSPECTION, OBSERVATION AND TESTING REQUIREMENTS HAVE BEEN ESTABLISHED PER 2021 INTERNATIONAL BUILDING CODE (IBC)
   1.1 REFERENCE PROJECT DRAWINGS, SPECIFICATIONS AND IBC SECTION 110 AND 17 FOR REQUIREMENTS
   1.2 ABBREVIATIONS USED
   EOR ENGINEER OF RECORD
   AHJ AUTHORITY HAVING JURISDICTION
   NDT NON DESTRUCTIVE TESTING
   SDC SEISMIC DESIGN CATEGORY. SEE S0.01 FOR ADDITIONAL INFORMATION
   SFRS SEISMIC FORCE RESISTING SYSTEM, SEE S0.01 FOR ADDITIONAL INFORMATION
2. REQUIRED INSPECTIONS BY THE BUILDING OFFICIAL (IBC SECTION 110)
   2.1 FOOTING AND FOUNDATION INSPECTION
   2.2 CONCRETE SLAB AND UNDER FLOOR INSPECTION
   2.3 FRAME INSPECTION
   2.4 GYPSUM BOARD INSPECTION
   2.5 FIRE AND SMOKE RESISTANCE PENETRATION INSPECTION
   2.6 ENERGY EFFICIENT INSPECTIONS
   2.7 IN ADDITION TO THE ABOVE REQUIRED INSPECTIONS, THE BUILDING OFFICIAL IS AUTHORIZED TO MAKE OR AUTHORIZE ANY ADDITIONAL INSPECTIONS AS NECESSARY TO ENSURE COMPLIANCE WITH BUILDING CODE OR ANY OTHER LAWS ENFORCED BY THE BUILDING DEPARTMENT
3. SPECIAL INSPECTIONS AND STRUCTURAL TESTING (IBC SECTION 1705)
   3.1 THE OWNER, OR OWNER'S REPRESENTATIVE, SHALL EMPLOY AN APPROVED AGENCY TO PERFORM SPECIAL INSPECTIONS
      3.1.1. SPECIAL INSPECTION SHELL BE ACCOMPLISHED BY A CERTIFIED SPECIAL INSPECTOR FROM AN ESTABLISHED TESTING AGENCY CURRENTLY CERTIFIED AND APPROVED BY THE BUILDING OFFICIAL
   3.2 THE SPECIAL INSPECTOR SHALL OBSERVE THE WORK ASSIGNED FOR CONFORMANCE WITH THE APPROVED DESIGN DRAWINGS AND SPECIFICATIONS
      3.2.1. CONTINUOUS SPECIAL INSPECTION REQUIRES THE SPECIAL INSPECTOR TO BE ON THE SITE AT ALL TIMES OBSERVING THE WORK REQUIRING SPECIAL INSPECTION, INSPECTIONS MUST BE PERFORMED BEFORE FINAL ACCEPTANCE OF THE ITEM
      3.2.2. PERIODIC SPECIAL INSPECTION REQUIRES THE SPECIAL INSPECTOR TO BE ON SITE AT TIME INTERVALS NECESSARY TO CONFIRM THAT ALL WORK REQUIRING SPECIAL INSPECTION IS IN COMPLIANCE, OPERATIONS NEED NOT BE DELAYED PENDING INSPECTION
      3.2.3 SPECIAL INSPECTION IS NOT REQUIRED FOR WORK PERFORMED BY AN APPROVED FABRICATOR PER IBC SECTION 1704.2.5.2
   3.3 THE SPECIAL INSPECTOR SHALL FURNISH INSPECTION REPORTS TO THE BUILDING OFFICIAL, THE ENGINEER OF RECORD, ARCHITECT OF RECORD AND OTHER DESIGNATED PERSONNEL
      3.3.1. ALL DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE GENERAL CONTRACTOR FOR POSSIBLE CORRECTIVE ACTIONS, THEN IF STILL NOT IN CONFORMANCE REPORTED TO THE EOR AND THE BUILDING OFFICIAL
      3.3.2. THE SPECIAL INSPECTOR SHALL SUBMIT A FINAL REPORT STATING THAT THE WORK REQUIRING SPECIAL INSPECTION WAS COMPLETED IN CONFORMANCE WITH THE APPROVED PLANS AND SPECIFICATIONS. ANY INSPECTIONS OR TESTING WHICH IS NOT IN ACCORDANCE SHALL BE CLEARLY INDICATED.
   3.4. SPECIAL INSPECTION AND TESTING SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF IBC SECTION 17 AND ANY ADDITIONAL REQUIREMENTS OF THE BUILDING OFFICIAL. OMISSION FROM THE LISTED REQUIREMENTS DOES NOT RELIEVE THE CONTRACTOR FROM PROVIDING INSPECTING AND TESTING REQUIRED BY THE IBC, STRUCTURAL OBSERVATIONS (IBC 1704.5)
4. STRUCTURAL OBSERVATIONS (IBC 1704.5)
   4.1. STRUCTURAL OBSERVATIONS SHALL BE PREFORMED BY THE EOR OR OTHER REGISTERED DESIGN PROFESSIONAL DURING CONSTRUCTION IN MANNER TO BECOME GENERALLY FAMILIAR WITH THE IN PLACE CONSTRUCTION CONDITION
   4.1.1. GENERAL CONTRACTOR TO COORDINATE STRUCTURAL OBSERVATIONS AND NOTIFY THE ENGINEER IN ADVANCE TO RENDERED INACCESSIBLE
   4.2 THE STRUCTURAL OBSERVER SHALL SUBMIT A REPORT TO THE BUILDING OFFICIAL INDICATING THAT THE SITE VISITS HAVE BEEN MADE AND IDENTIFY ANY DEFICIENCIES OBSERVED
   4.2.1 STRUCTURAL OBSERVATION REPORTS SHALL NOT CONSTITUTE A WARRANTY OR AS A GUARANTEE BY THE STRUCTURAL ENGINEER AND DO NOT CONSTITUTE A SPECIAL INSPECTION
5. CONTRACTOR RESPONSIBILITY (IBC 1704.4)
   5.1 CONTRACTOR SHALL CONVENE A PRE-CONSTRUCTION MEETING THE EOR, AHJ, AND SPECIAL INSPECTOR WHERE THE REQUIREMENTS FOR SPECIAL INSPECTION, TESTING AND STRUCTURAL OBSERVATIONS ARE DISCUSSED. MEETING MINUTES SHALL BE PROVIDED TO THE AHJ AND MAINTAINED ON-SITE AT ALL TIMES
   5.2 IF SEISMIC OR WIND RESISTANCE IS INDICATED IN THE STATEMENT OF SPECIAL INSPECTION, THE CONTRACTOR RESPONSIBLE FOR ITS CONSTRUCTION SHALL SUBMIT A LETTER CONTAINING ACKNOWLEDGEMENT OF THE SPECIAL INSPECTION REQUIREMENTS TO THE AHJ AND THE OWNER

STATEMENT OF SPECIAL INSPECTION

ITEM	SPECIAL INSPECTION	STRUCTURAL OBSERVATION	IBC SECTION
CONCRETE CONSTRUCTION	X		1705.3

COMMENTS:
ITEMS INDICATED WITH AN "X" ABOVE INDICATE THE REQUIREMENT FOR SPECIAL INSPECTION AND/OR STRUCTURAL OBSERVATIONS SEE GENERAL NOTES ON INSPECTIONS BELOW FOR ADDITIONAL INFORMATION.

ALL INSPECTIONS WILL BE COPIED TO THE CITY OF MEBANE BUILDING DEPARTMENT

CONCRETE CONSTRUCTION (IBC TABLE 1705.3)

VERIFICATION AND INSPECTION TASK	INSPECTION [1]	
	FREQUENCY	COMMENTS
INSPECTION OF REINFORCING STEEL, INCLUDING PRESTRESSING TENDONS, AND PLACEMENT	P	
REINFORCING BAR WELDING:		
VERIFY WELDABILITY OF REINFORCING BARS OTHER THAN ASTM A706	P	
INSPECT SINGLE-PASS FILLET WELDS, MAXIMUM 5/16"	P	
INSPECT ALL OTHER WELDS	C	
INSPECTION OF ANCHORS AND OTHER EMBEDDED ITEMS IN CONCRETE	P	
INSPECT ANCHORS POST-INSTALLED IN HARDENED CONCRETE MEMBERS:		
ADHESIVE ANCHORS INSTALLED IN HORIZONTALLY OR UPWARDLY INCLINED ORIENTATIONS TO RESIST SUSTAINED TENSION LOADS	C	
MECHANICAL ANCHORS AND ADHESIVE ANCHORS NOT DEFINED ABOVE	P	
VERIFY USE OF REQUIRED DESIGN MIX	P	
PRIOR TO CONCRETE PLACEMENT, FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE	C	
INSPECTION OF THE CONCRETE AND/OR SHOTCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES	C	
VERIFY FOR MAINTENANCE OF SPECIFIED CURING TEMPERATURES AND TECHNIQUES	P	
FOR PRECAST CONCRETE DIAPHRAGM CONNECTIONS OR REINFORCEMENT AT JOINTS CLASSIFIED AS MODERATE OR HIGH DEFORMABILITY ELEMENTS (MDE OR HDE) IN STRUCTURE S ASSIGNED TO SEISMIC DESIGN CATEGORY C,D,E AND F, INSPECT SUCH CONNECTION AND REINFORCEMENT IN THE FIELD FOR:		
INSTALLATION OF THE EMBEDDED PARTS	C, --	
COMPLETION OF THE CONTINUITY OF REINFORCEMENT ACROSS JOINTS	C, --	
COMPLETION OF CONNECTIONS IN THE FIELD	C, --	
INSPECT FORMWORK FOR SHAPE, LOCATION AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED	P	

COMMENTS:
1. FREQUENCY DEFENITIONS: 'C' CONTINUOUS, 'P' PERIODIC AND '--' DENOTES EITHER A ONE-TIME ACTIVITY OR FREQUENCY IN SOME OTHER MANNER

0	9/12/25	ISSUE FOR PERMIT
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CITY OF Vancouver WASHINGTON

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FAA GRANT #3-53-0139-022-2026

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DRAWING TITLE:
GENERAL NOTES & SPECIAL INSPECTIONS
DRAWN BY: MGV
CHECKED BY: MGV

S0.01

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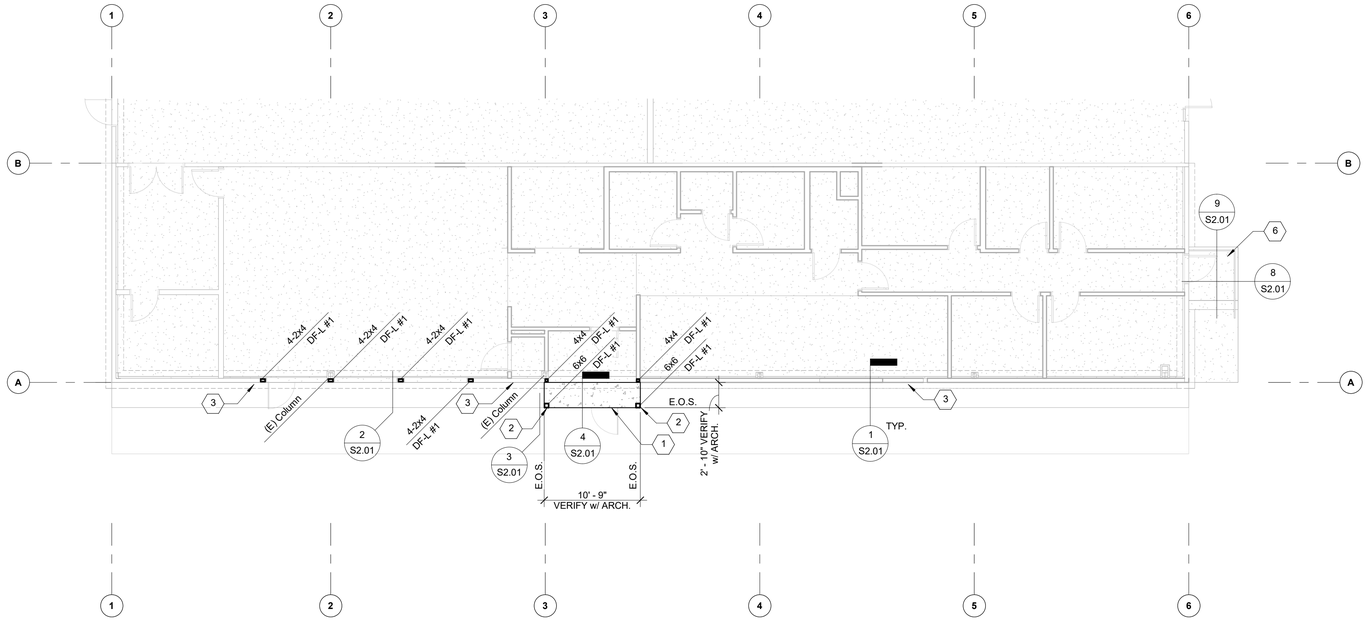
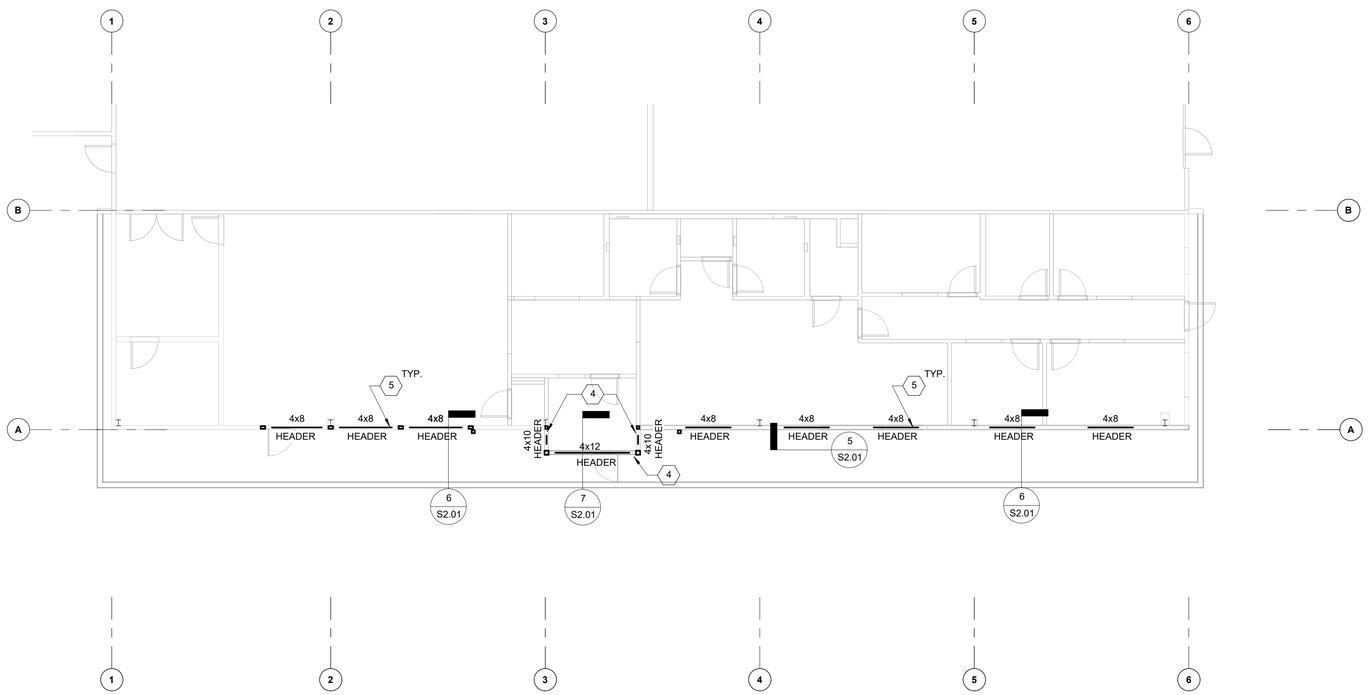


1 S1.01 **FOUNDATION/SLAB PLAN**
1/8" = 1'-0"



2 S1.01 **FRAMING PLAN - HEADER**
1/8" = 1'-0"

GENERAL NOTES

- APPLICABLE CODES: ALL WORK SHALL BE IN CONFORMANCE WITH ALL FEDERAL, STATE, AND LOCAL CODES. SPECIFICATIONS AND STANDARDS SHALL MEAN, AND ARE INTENDED TO BE, THE LATEST EDITION, AMENDMENT OR REVISION OF SUCH REFERENCE STANDARD, IN EFFECT AS OF THE DATE OF THE CONTRACT DOCUMENTS.
- CONTRACTOR TO VERIFY EXISTING CONDITIONS AND DIMENSIONS SHOWN OR IMPLIED PRIOR TO START OF CONSTRUCTION AND NOTIFY A/E OF ANY DISCREPANCIES.
- CONTRACTOR SHALL PROVIDE ALL NECESSARY TESTING AND COORDINATE ALL REQUIRED INSPECTIONS.
- GRID LINES ARE TO CENTERLINE OF COLUMNS UNLESS NOTED OTHERWISE.
- DIMENSIONS ARE TO GRID LINE OR FACE OF GIRT/STUD OR CENTERLINE OF OPENING UNLESS NOTED OTHERWISE.
- SEE ARCHITECTURAL DRAWINGS FOR DIMENSIONS, ELEVATIONS AND WALLS NOT SHOWN
- ALL DETAIL CUTS TO BE CONSIDERED SIMILAR AT LIKE CONDITIONS, TYPICAL.

LEGEND

(E)	EXISTING
℄	CENTERLINE
E.O.S.	EDGE OF SLAB
P.E.M.B.	PRE-ENGINEERED METAL BUILDING
F.V.	FIELD VERIFY
COL.	COLUMN IDENTIFICATION

KEYNOTES

1. 5" THICK CONCRETE SLAB ON MIN. 6" CRUSHED ROCK --REINF. w/ #4 AT 16" O.C. EACH WAY
2. SIMPSON CPT66Z COLUMN BASE w/ (3) 1/2" DIA. DOWELS --INSTALL PER MANUFACTURER RECOMMENDATIONS, SEE 3/S2.01
3. 2x4 AT 12" O.C. WOOD STUD WALL w/ 15/32" PLYWOOD SHEATHING w/ 8d AT 6" O.C. AND 12" O.C. IN FIELDS --REMOVE OR INFILL EXISTING WALL FRAMING AS REQUIRED ALONG GL "A" --REFER TO ARCHITECTURAL FOR AREA OF DEMO AND NEW WORK
4. SIMPSON HUC410 HANGER EACH END w/ (14) 0.162 x 3 1/2" TO COLUMN & (6) 0.148 x 3" TO HEADER --INSTALL PER MANUFACTURER RECOMMENDATIONS
5. SEE 5/S2.01 FOR TYPICAL HEADER DETAIL
6. 5" THICK CONCRETE LANDING SLAB ON MIN. 6" CRUSHED ROCK --REINF. w/ #4 @ 12" O.C. EACH WAY --SEE ARCHITECTURAL FOR DIMENSIONS

0	9/12/25	ISSUE FOR PERMIT
1	11/18/25	ISSUE FOR CONSTRUCTION

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CITY OF Vancouver WASHINGTON

PEARSON FIELD
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PEARSON FIELD
101 EAST RESERVE ST.
VANCOUVER, WA 98661

DRAWING TITLE:
FOUNDATION & FRAMING PLANS

DRAWN BY: Author
CHECKED BY: Checker

S1.01

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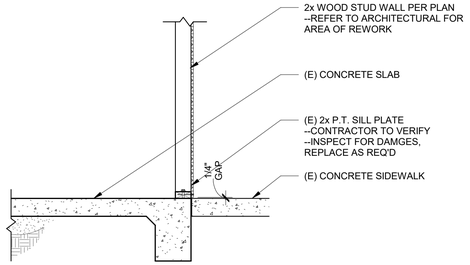
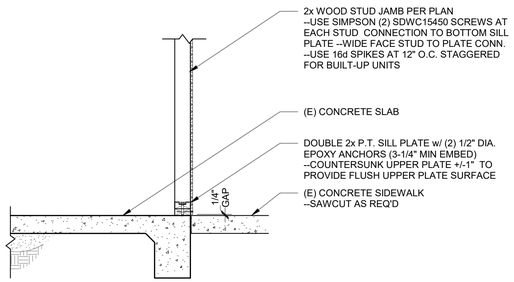
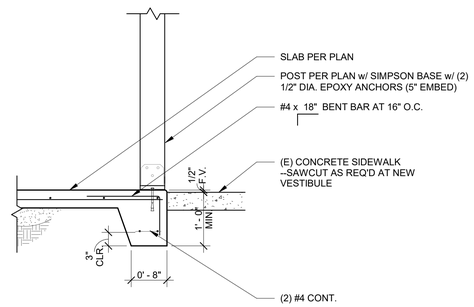


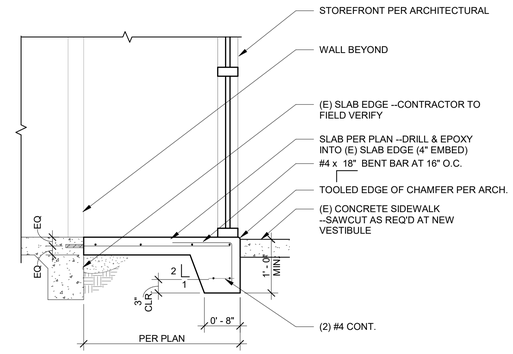
1 S2.01 STUD WALL AT SLAB DETAIL
3/4" = 1'-0"



2 S2.01 STOREFRONT JAMB AT SLAB DETAIL
3/4" = 1'-0"



3 S2.01 WOOD POST AT SLAB DETAIL
3/4" = 1'-0"



4 S2.01 SLAB DETAIL AT VESTIBULE
3/4" = 1'-0"

5 S2.01 TYPICAL HEADER DETAIL
1" = 1'-0"

6 S2.01 WALL AT ROOF CONNECTION DETAIL
1" = 1'-0"

7 S2.01 WALL AT VESTIBULE ROOF CONNECTION
1" = 1'-0"

8 S2.01 TYP. CONCRETE LANDING DETAIL
3/4" = 1'-0"

9 S2.01 TYP. CONCRETE STAIR DETAIL
3/4" = 1'-0"

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DRAWING TITLE:
FOUNDATION & FRAMING DETAILS

DRAWN BY: MGV
CHECKED BY: GML

S2.01

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MECHANICAL LEGEND

NOTE: NOT ALL SYMBOLS OR ABBREVIATIONS ARE APPLICABLE TO THIS PROJECT. REFER TO DETAILS AND NOTES FOR MOUNTING HEIGHTS.

ABBREVIATIONS

(N)	NEW	FPM	FEET PER MINUTE	RTU	ROOFTOP UNIT
(E)	EXISTING TO REMAIN	FPS	FEET PER SECOND	S	SUPPLY OR SLOPE
(D)	EXISTING TO BE REMOVED	FSD	FIRE/SMOKE DAMPER	SA	SUPPLY AIR
(ER)	EXISTING TO BE RELOCATED	FT	FOOT OR FEET	SCFM	CFM, STANDARD CONDITIONS
(RL)	NEW LOCATION OF RELOCATED ITEM	GA	GAUGE	SD	SMOKE DAMPER
(F)	FUTURE	GAL	GALLONS	SEER	SEASONAL ENERGY EFFICIENCY RATING
AAV	AUTOMATIC AIR VENT	GALV	GLAVANIZED	SEN	SENSIBLE
AC	AIR CONDITIONING	GC	GENERAL CONTRACTOR	SF	SUPPLY FAN OR SQUARE FEET
ACCEPT	ACCEPTANCE	GLV	GLOBE VALVE	SIU	SPLIT INDOOR UNIT
ACU	AIR CONDITIONING UNIT	GPM	GALLONS PER MINUTE	SOU	SPLIT OUTDOOR UNIT
AD	ACCESS DOOR	GND	GROUND	SP	STATIC PRESSURE
AFF	ABOVE FINISHED FLOOR	GV	GATE VALVE	SPD	SPLITTER DAMPER
AFMS	AIR FLOW MEASURING STATION	H	HEIGHT	SPEC	SPECIFICATIONS
AFUE	ANNUAL FUEL UTILIZATION EFFICIENCY	HB	HOSE BIBB	SQ IN	SQUARE INCH
AG	AIR GAP	HC	HEATING COIL	ST	STRAINER OR SOUND TRAP
AHJ	AUTHORITY HAVING JURISDICTION	HD	HEAD	STD	STANDARD
AHU	AIR HANDLING UNIT	HOR	HORIZONTAL	T	THERMOSTAT (NOT TEMPERATURE SENSOR
AMB	AMBIENT	HP	HIGH PRESSURE	T	THERMOMETER
A	AMPERE	HP	HORSEPOWER	TCP	TEMPERATURE CONTROL PANEL
AP	ACCESS PANEL	HP	HEAT PUMP	TDH	TOTAL DYNAMIC HEAD
APPROX	APPROXIMATELY	HPC	HIGH PRESSURE CONDENSATE	TEMP	TEMPERATURE
ARCH	ARCHITECT	HPS	HIGH PRESSURE STEAM	TFA/TFB	TO FLOOR ABOVE/BELOW
ARI	AMERICAN REFIRGERATION INSTITUTE	HR	HOUR(S)	TI	TENANT IMPROVEMENT
AS	AIR SEPARATOR	HRU	HEAT RECOVERY UNIT	TRG	TRANSFER GRILLE
AUTO	AUTOMATIC	HS	HUMIDITY SENSOR	TS	TEMPERATURE SENSOR
AUX	AUXILIARY	HV	HOSE VALVE	TSP	TOTAL STATIC PRESSURE
B	BOILER	HVAC	HEATING, VENTILATING AND AIR CONDITIONING	TT	TEST TAP OR TEST TEE
BAS	BUILDING MANAGEMENT SYSTEM			TXV	THERMAL EXPANSION VALVE
BDD	BACKDRAFT DAMPER	HW	HEATING WATER	(TYP)	TYPICAL
BHP	BRAKE HORSEPOWER	HWP	HEATING WATER PUMP	U	HEAT TRANSFER COEFFICIENT
BOD	BOTTOM OF DUCT	HWR	HEATING WATER RETURN	UG	UNDERGROUND
BOP	BOTTOM OF PIPE	HWS	HEATING WATER SUPPLY	UH	UNIT HEATER
BFP	BACKFLOW PREVENTER	HX	HEAT EXCHANGER	UON	UNLESS OTHERWISE NOTED
BSMT	BASEMENT	HZ	FREQUENCY (HERTZ)	V	VENT OR VOLUME OR VELOCITY
BTU	BRITISH THERMAL UNIT	ID	INSIDE DIAMETER	VAV	VARIABLE AIR VOLUME
BTUH	BTU PER HOUR	IN	INCH(ES)	VB	VACUUM BREAKER
BV	BALL VALVE OR BALANCING VALVE	INPLV	INTEGRATED PART LOAD VALUE	VD	VOLUME DAMPER
BYV	BUTTERFLY VALVE	KW	KILOWATT	VEL	VELOCITY
C	COMMON, CONDENSATE OR CONDUIT	KWH	KILOWATT HOUR	VERT	VERTICAL
CA	CONTROL AIR	L	LENGTH	VFD	VARIABLE FREQUENCY DRIVE
CAP	CAPACITY	LAT	LEAVING AIR TEMPERATURE	VOL	VOLUME
CAV	CONSTANT AIR VOLUME	LBS	POUNDS	W	WASTE OR WIDTH OR WATTS
CB	CHILLED BEAM	LDB	LEAVING DRY BULB	W/	WITH
CC	COOLING COIL OR CONTROLS CONTRACTOR	LF	LINEAR FEET	W/O	WITHOUT
CD	CONDENSATE DRAIN	LP	LOW PRESSURE	WB	WET BULB TEMPERATURE
CEG	CEILING EXHAUST GRILLE	LPC	LOW PRESSURE CONDENSATE	WC	WATER COLUMN
CER	CEILING EXHAUST REGISTER	LPS	LOW PRESSURE STEAM	WEG	WALL EXHAUST GRILLE
CFF	CAP FOR FUTURE	LWB	LEAVING WET BULB	WG	WATER GAUGE
CFM	CUBIC FEET PER MINUTE	LWT	LEAVING WATER TEMPERATURE	WP	WORKING PRESSURE
CFS	CUBIC FEET PER SECOND	M	MOTOR	WPD	WATER PRESSURE DROP
CHWP	CHILLED WATER PUMP	MA	MIXED AIR	WRR	WALL RETURN REGISTER
CHWR	CHILLED WATER RETURN	MAD	MIXED AIR DAMPER	WSHP	WATER-SOURCE HEAT PUMP
CHWS	CHILLED WATER SUPPLY	MAX	MAXIMUM	WSR	WALL SUPPLY REGISTER
CH	CHILLER	MBH	THOUSAND BTU PER HOUR	WT	WEIGHT
CHV	CHECK VALVE	MC	MECHANICAL CONTRACTOR	Z	ZONE
CL	CENTERLINE	MCA	MINIMUM CIRCUIT AMPACITY	ZD	ZONE DAMPER
CLG	CEILING	MCC	MOTORIZED CONTROL CENTER		
CO	CLEANOUT	MD	MOTORIZED DAMPER		
CONN	CONNECTION	MECH	MECHANICAL		
CONT	CONTINUATION	MERV	MINIMUM EFFICIENCY RATING VALUE		
CONTR	CONTRACTOR	MFR	MANUFACTURER		
COP	COEFFICIENT OF PERFORMANCE	MIN	MINIMUM		
CP	CONTROL PANEL OR CONDENSATE PUMP	MOCP	MINIMUM OVER CURRENT PROTECTION		
CR	CONDENSATE RETURN	MV	MANUAL AIR VENT		
CRG	CEILING RETURN GRILLE	N/A	NOT APPLICABLE		
CRR	CEILING RETURN REGISTER	NC	NORMALLY CLOSED		
CSD	CEILING SUPPLY DIFFUSER	NIC	NOT IN CONTRACT		
CTE	CONNECT TO EXISTING	NO	NORMALLY OPEN OR NUMBER		
CUFT	CUBIC FEET	NOM	NOMINAL		
CUIN	CUBIC INCHES	NPSH	NET POSITIVE SUCTION HEAD		
CV	CONSTANT VOLUME OR CONTROL VALVE	NTS	NOT TO SCALE		
CW	COLD WATER	OA	OUTSIDE AIR		
CWP	CONDENSER WATER PUMP	OAD	OUTSIDE AIR DAMPER		
CWR	CONDENSER WATER RETURN	OAT	OUTSIDE AIR TEMPERATURE		
CWS	CONDENSER WATER SUPPLY	OBD	OPPOSED BLADE DAMPER		
DBT	DRY BULB TEMPERATURE	OC	ON CENTER		
DDC	DIRECT DIGITAL CONTROL	OD	OUTSIDE DAMPER		
DIA	DIAMETER	OFCI	OWNER FURNISHED CONTRACTOR INSTALLED		
DIFF	DIFFERENCE	OFOI	OWNER FURNISHED OWNER INSTALLED		
DN	DOWN	OPER	OPERATING		
DP	DIFFERENTIAL PRESSURE	OV	OUTLET VELOCITY		
DPT	DEW POINT TEMPERATURE	P	PUMP OR PRESSURE OR POLE		
DSD	DUCT SMOKE DETECTOR	PC	PUMPED CONDENSATE		
DWG(S)	DRAWINGS(S)	PD	PRESSURE DROP		
DX	DIRECT EXPANSION	PF	PREFILTER		
EA	EXHAUST AIR OR EACH	PG	PIPE GUIDE OR PRESSURE GAUGE		
EAD	EXHAUST AIR DAMPER	PH	PHASE (ELECTRICAL)		
EAT	ENTERING AIR TEMPERATURE	PHC	PREHEAT COIL		
EC	ELECTRICAL CONTRACTOR	POC	POINT OF CONNECTION		
ECON	ECONOMIZER	POD	POINT OF DISCONNECTION		
EDB	ENTERING DRY BULB TEMPERATURE	PRESS	PRESSURE		
EWT	ENTERING WATER TEMPERATURE	PRV	PRESSURE REDUCING VALVE		
EER	ENERGY EFFICIENCY RATING	PS	PRESSURE SENSOR		
EF	EXHAUST FAN	PSI	POUNDS PER SQUARE INCH		
EFF	EFFICIENCY	PSIA	PSI ABSOLUTE		
ELEC	ELECTRICAL	PSIG	PSI GAUGE		
EQUIP	EQUIPMENT	QTY	QUANTITY		
ESP	EXTERNAL STATIC PRESSURE	R	RELOCATE, RISE, RISER		
ET	EXPANSION TANK	RA	RETURN AIR		
EWB	ENTERING WET BULB TEMPERATURE	RAD	RETURN AIR DAMPER		
EXH	EXHAUST	RD	REFRIGERANT DISCHARGE		
EXT	EXTERNAL	REF	ROOFTOP EXHAUST FAN		
F	FAHRENHEIT	REFRIG	REFRIGERATION		
FPB	FAN POWERED BOX	REV	REVISE, REVISION OR REVOLUTIONS		
FC	FLEXIBLE CONNECTION OR FAIL CLOSED	RF	RETURN FAN		
FCU	FAN COIL UNIT	RH	RELATIVE HUMIDITY		
FD	FIRE DAMPER	RHC	REHEAT COIL		
FF	FINAL FILTER OR FINISHED FLOOR	RHT	RADIANT HEATER		
FFA/FFB	FROM FLOOR ABOVE/BELOW	RPM	REVOLUTIONS PER MINUTE		
FO	FAIL OPEN	RS	REFRIGERANT SUCTION		
FPI	FINS PER INCH				

DUCTWORK

SYMBOL	DESCRIPTION
AD/AP	ACCESS DOOR / ACCESS PANEL
	FLEXIBLE CONNECTION
	FLEXIBLE DUCT RUNOUT TO DIFFUSER
12x6	RECTANGULAR DUCT SIZE (WIDTH x DEPTH IN INCHES)
18ø	ROUND DUCT SIZE (DIAMETER IN INCHES)
24x12ø	OVAL DUCT SIZE (WIDTH x DEPTH IN INCHES)
	DUCT THROUGH BEAM PENETRATION
R. D.	DUCT OFFSET (RISE OR DROP)
VD RVD	VOLUME DAMPER OR REMOTE VOLUME DAMPER
FD SD FSD	FIRE, SMOKE OR FIRE/SMOKE DAMPER
MD BDD	MOTORIZED DAMPER, BACKDRAFT DAMPER
	SUPPLY DUCT UP
	SUPPLY DUCT DOWN
	EXHAUST DUCT UP
	EXHAUST DUCT DOWN
	RETURN DUCT UP
	RETURN DUCT DOWN
	CROSS SECTION OF SUPPLY DUCT
	CROSS SECTION OF EXHAUST AIR DUCT
	CROSS SECTION OF RETURN AIR DUCT
	CROSS SECTION OF ROUND DUCT
	DUCT ELBOW WITH TURNING VANES
	SMOOTH RADIUS DUCT ELBOW WITHOUT TURNING VANES
	CONICAL BRANCH FITTING
	45 DEGREE BOOT LO-LOSS BRANCH FITTING
	WYE BRANCH FITTING
12x6	ACOUSTICAL LINING DUCT (DIMENSION IS INSIDE DIMENSION)
M	MOTORIZED DAMPER INSIDE DUCT
TAG NECK SIZE-CFM	TRANSFER DUCT (WITH LINER)
8" - 11" BOD	INDICATES 8"11" TO BOTTOM OF DUCT
TAG NECK SIZE-CFM	RECTANGULAR OR ROUND SUPPLY DIFFUSER OR REGISTER (SEE SCHEDULE). 4-WAY THROW UNLESS INDICATED OTHERWISE. EXAMPLE: SB12X12-400 REFERS TO TAG SB WITH 12"X12" NECK AND 400 CFM
TAG NECK SIZE-CFM	RECTANGULAR OR ROUND EXHAUST GRILLE OR REGISTER (SEE SCHEDULE)
TAG NECK SIZE-CFM	RECTANGULAR OR ROUND RETURN GRILLE OR REGISTER (SEE SCHEDULE)
TAG NECK SIZE-CFM	WALL SUPPLY GRILLE OR REGISTER (SEE SCHEDULE)
TAG NECK SIZE-CFM	WALL RETURN OR EXHAUST GRILLE OR REGISTER (SEE SCHEDULE)
TAG NECK SIZE-LENGTH-CFM	LINEAR SLOT DIFFUSER (SEE SCHEDULE FOR NUMBER OF SLOTS). 2-WAY THROW UNLESS NOTED OTHERWISE. EXAMPLES: SN10-48-250 REFERS TO TAG SN WITH 10" ROUND NECK, 48" SLOT LENGTH AND 250 CFM.
	VARIABLE AIR VOLUME TERMINAL UNIT
	VARIABLE AIR VOLUME TERMINAL UNIT W/ REHEAT
	FAN POWERED TERMINAL UNIT
	FAN POWERED TERMINAL UNIT W/ REHEAT

CONTROLS

SYMBOL	DESCRIPTION
WALL / CEILING MOUNTED DEVICE	
TS	TEMPERATURE SENSOR
T	THERMOSTAT OR THERMOMETER
CO2	CARBON DIOXIDE SENSOR
OS	OCCUPANCY SENSOR
H	HUMIDITY SENSOR OR HUMIDISTAT
SP	STATIC PRESSURE SENSOR
RS	REFRIGERANT SENSOR
CO	CARBON MONOXIDE SENSOR
H	HYDROGEN SENSOR
EQUIPMENT / SYSTEM MOUNTED DEVICE	
DSD	DUCT SMOKE DETECTOR
TS	TEMPERATURE SENSOR
SP	STATIC PRESSURE SENSOR
PS	PRESSURE SENSOR OR SWITCH
DPS	DIFFERENTIAL PRESSURE SENSOR
AFMS	AIR FLOW MEASURING STATION
HS	HUMIDITY SENSOR
FS	FLOW SENSOR OR SWITCH
FM	FLOW METER
CS	CURRENT SENSOR
M	MOTOR
A	ACTUATOR
HM	HYDROGEN MONITOR
RM	REFRIGERANT MONITOR
AI	ANALOG INPUT
AO	ANALOG OUTPUT
DI	DIGITAL INPUT
DO	DIGITAL OUTPUT
BAS	BUILDING AUTOMATION SYSTEM
PI	PULSING INPUT

PIPING SYSTEMS

SYMBOL	DESCRIPTION
RD	REFRIGERANT DISCHARGE
RS	REFRIGERANT SUCTION

DEFERRED SUBMITTALS

1. SEISMIC BRACING FOR MECHANICAL AND PLUMBING SYSTEMS, INCLUDING EQUIPMENT, PIPING, AND DUCTWORK.

*FOR ALL ITEMS LISTED ABOVE, THE PLUMBING AND/OR MECHANICAL CONTRACTOR SHALL PROVIDE A DELEGATED DESIGN SUBMITTAL WITH DOCUMENTATION AND ENGINEERING REQUIRED TO SATISFY REQUIREMENTS OF THE AUTHORITY HAVING JURISDICTION (AHJ). THE DELEGATED DESIGN SUBMITTAL SHALL INCLUDE BUT NOT BE LIMITED TO ANALYSIS DATA SIGNED AND SEALED BY A QUALIFIED PROFESSIONAL ENGINEER RESPONSIBLE FOR THEIR PREPARATION.

MECHANICAL DRAWING LIST

SHEET NUMBER	SHEET NAME	60% CD	90% CD	PERMIT	IFC
M0.0	MECHANICAL LEGEND AND ABBREVIATIONS	X	X	X	X
M0.1	BASIS OF DESIGN AND TABULATED DATA		X	X	X
M0.2	SCHEDULES	X	X	X	X
M0.3	LOAD AND VENTILATION CALCS	X	X	X	X
MD2.01	DEMO FLOOR PLAN - HVAC	X	X	X	X
M2.01	FLOOR PLAN - HVAC	X	X	X	X
M3.01	FLOOR PLAN - ZONING	X	X	X	X
M4.01	FLOOR PLAN - REFRIGERANT PIPING	X	X	X	X
M9.01	MECHANICAL DETAILS	X	X	X	X
M9.02	MECHANICAL DETAILS	X	X	X	X
Grand total: 10					

GENERAL SYMBOLS

SYMBOL	DESCRIPTION
(N)	NEW
(E)	EXISTING TO REMAIN
(D)	EXISTING TO BE REMOVED
(ER)	EXISTING TO BE RELOCATED
(RL)	NEW LOCATION OF RELOCATED ITEM
(F)	FUTURE
℄	CENTER LINE
	POINT OF CONNECTION OR POINT OF DISCONNECTION
1 / M-1	DETAIL 1, DRAWING M-1
A / M-1	SECTION A, DRAWING M-1
1 / M-1	ELEVATION 1, DRAWING M-1
EXH / 1	RISER IDENTIFICATION EXHAUST #1
HP / 1	EQUIPMENT IDENTIFICATION HEAT PUMP UNIT #1
1	KITCHEN EQUIPMENT TAG
#	KEYED NOTE
150 / 78°F	DIRECTION OF TRANSFER AIRFLOW (150 CFM) / 78 DEGREES FAHRENHEIT

7/18/25	60% OWNER REVIEW		
8/27/25	90% OWNER REVIEW		
9/12/25	ISSUE FOR PERMIT		
11/18/25	ISSUE FOR CONSTRUCTION		

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DRAWING TITLE:
MECHANICAL LEGEND AND ABBREVIATIONS

DRAWN BY: Author
CHECKED BY: Checker

M0.0

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MECHANICAL - BASIS OF DESIGN

A. PEARSON FIELD IS A ONE-STORY EXISTING PILOT LOUNGE LOCATED AT 101 EAST RESERVE ST. VANCOUVER, WA.
   1. THIS PROJECT IS ~2,694 SF AND CONSISTS OF AN AMMENITY SPACE, KITCHEN, AND OFFICES.
B. THE DESIGN INCLUDES THE FOLLOWING NOTABLE FEATURES, BUT IS NOT LIMITED TO THIS SCOPE. CONTRACTOR IS RESPONSIBLE FOR REVIEWING ALL CONTRACT DOCUMENTS AND COORDINATING WITH ALL DISCIPLINES.
   1. SPLIT SYSTEM HEAT PUMPS CONNECTED TO INDOOR FAN COIL UNITS DISTRIBUTE HEATING AND COOLING TO THE SPACES.
   2. AN ELECTRIC UNIT HEATER PROVIDES HEATING TO THE VESTIBULE SPACE.
   3. AN ENERGY RECOVERY UNIT PROVIDES BALANCED VENTILATION FOR ALL SPACES.
   4. CONTROLS: DIRECT DIGITAL BUILDING AUTOMATION SYSTEM (BAS) TO OPERATE ALL SYSTEM FUNCTIONS AND SCHEDULES.
C. CODES AND STANDARDS (LATEST EDITIONS UNLESS OTHERWISE REQUIRED BY AHJ) (NOTE TO EDITOR: VERIFY FOR EACH JURISDICTION AS THE ADOPTED CODE MAY BE DIFFERENT.)
   1. AMERICANS WITH DISABILITIES ACT (ADA).
   2. NFPA 90A: STANDARD FOR THE INSTALLATION OF AIR-CONDITIONING AND VENTILATING SYSTEMS.
   3. NFPA 90B: STANDARD FOR THE INSTALLATION OF WARM AIR HEATING AND AIR-CONDITIONING SYSTEMS.
   4. ASHRAE STANDARDS
   5. SMACNA STANDARDS
   6. **WASHINGTON** BUILDING CODES ENFORCED BY THE AUTHORITY HAVING JURISDICTION (AHJ):
      A. 2021 INTERNATIONAL BUILDING CODE
      B. 2021 INTERNATIONAL MECHANICAL CODE
      C. 2021 WASHINGTON STATE ENERGY CODE (WAC 51-11, WSEC).
D. OUTDOOR DESIGN CONDITIONS:
   1. LOCATION: VANCOUVER, WA
   2. SUMMER: 91.4°F DB/66.7°F WB
   3. WINTER: 22.9°F
   4. ELEVATION: 20
   5. CLIMATE ZONE: 4B
E. INDOOR DESIGN CONDITIONS: BASED ON +/-2°F CONTROL ACCURACY FROM SETPOINTS.
   A. ALL CONDITIONED AREAS:
      a. COOLING: 75°F
      b. HEATING: 70°F
   B. HUMIDITY CONTROL : NONE. NO ACTIVE HUMIDIFICATION SYSTEMS.
F. VENTILATION CRITERIA:
   1. ALL AREAS: 20 CFM/PERSON
   2. EXCEPTIONS:
      A. RECEPTION AREA: 15 CFM/PERSON
      B. WAITING AREA: 15 CFM/PERSON
      C. LOBBY: 15 CFM/PERSON
      D. CLASSROOM: 15 CFM/PERSON
      E. CORRIDOR: 0.1 CFM/SQ.FT.
      F. STORAGE: 0.1 CFM/SQ.FT.
      G. LIVING UNITS: CONTINUOUS MECHANICAL VENTILATION
   3. COMPLY WITH CHAPTER 4 OF OMSC/IMC OR ASHRAE 62.1.
G. EXHAUST TO OUTDOORS (MINIMUM RATES):
   1. TOILET ROOMS: 50 CFM/WATER CLOSET (MINIMUM)
   2. JANITOR CLOSET: 100 CFM OR 10 AIR CHANGES PER HOUR, WHICHEVER IS GREATER.
   3. BREAK ROOM: 0.3 CFM/SQFT
H. BUILDING ENVELOPE:
   1. GLAZING: GLASS/FRAME COMBINATION:
      A. TYPICAL VERTICAL:
         1. DESCRIPTION: DOUBLE PANE, LOW-E, AND THERMAL BREAK FRAME
         2. U = 0.319 (WITH FRAME)
         3. SOLAR HEAT GAIN FACTOR (SHADING COEFFICIENT) = 0.264
   2. WALL CONSTRUCTION:
      A. OVERALL U-VALUE = 0.25
   3. ROOF CONSTRUCTION:
      A. OVERALL U-VALUE = 0.05
I. INTERNAL HEAT GAINS:
   A. LIGHTING: OFFICE: 0.75 W/SQ.FT.
   B. CONFERENCE ROOM: 1.0 W/SQ.FT.
   C. LOBBY: 1.0 W/SQ.FT.
   D. CORRIDOR: 0.5 W/SQ.FT.
   E. RESTROOM: 0.5 W/SQ.FT.
   F. RETAIL: 1.5 W/SQ.FT.
   1. OCCUPANCY CRITERIA:
      A. OFFICE OCCUPANT: 250 BTUH SENSIBLE/200 BTUH LATENT
      B. OPEN OFFICE: 1 PERSON/142.8 SQ.FT.
      C. CLOSED OFFICE: 1 PERSON
      D. RECEPTION AREA: 1 PERSON/16.7 SQ.FT.
      E. CONFERENCE ROOM: 1 PERSON/20 SQ.FT.
      F. BREAK ROOM: 1 PERSON/20 SQ.FT.
      G. LOBBY: 1 PERSON/33.3 SQ.FT.
   2. ZONING CRITERIA:
      A. PRIVATE OFFICES: ONE ZONE (TEMPERATURE SENSOR) PER FOUR (MAXIMUM) PRIVATE OFFICES AND ONE PER EACH CORNER/EXECUTIVE OFFICE.
      B. OPEN OFFICE SPACES: ONE ZONE (TEMPERATURE SENSOR) PER 1,000 SQUARE FEET OR AS INDICATED ON THE DRAWINGS.
      C. CONFERENCE ROOMS: ONE ZONE (TEMPERATURE SENSOR) PER ROOM
      D. LOBBY: ONE ZONE (TEMPERATURE SENSOR)

J. DUCTWORK DESIGN CRITERIA:
   1. DESIGN DUCTWORK TO PROVIDE HIGH EFFICIENCY OPERATION WITH MINIMAL ACOUSTICAL NOISE. DUCT STATIC PRESSURE FRICTION LOSS SHALL NOT EXCEED 0.2" PER 100 FEET IN MECHANICAL ROOMS AND SHAFTS. LOW PRESSURE SUPPLY DUCT STATIC PRESSURE FRICTION LOSS BASED ON A MAXIMUM OF 0.08" PER 100 FEET. LOW PRESSURE RETURN AND EXHAUST DUCT STATIC PRESSURE FRICTION LOSS BASED ON A MAXIMUM OF 0.06" PER 100 FEET. MEDIUM PRESSURE DUCTWORK SHALL NOT EXCEED A DUCT STATIC PRESSURE FRICTION LOSS BASED ON A MAXIMUM OF 0.1" PER 100 FEET.
   2. MAXIMUM SUPPLY, RETURN AND EXHAUST DUCT AIR FLOW VELOCITIES, REGARDLESS OF PRESSURE DROP, SHALL NOT EXCEED THE FOLLOWING CRITERIA:
      A. MAINS ABOVE CEILING: 1300 FPM
      B. MAINS ABOVE OPEN OCCUPIED SPACES: 1100 FPM
      C. BRANCHES ABOVE CEILING: 900 FPM
      D. BRANCHES ABOVE OPEN OCCUPIED SPACES: 750 FPM
      E. RUN-OUTS TO DIFFUSERS: 725 FPM
K. ACOUSTICAL:,
   1. THE FOLLOWING NOISE NC/RC CRITERIA LEVELS WILL BE ACHIEVED AND AS DEFINED IN THE ASHRAE HVAC APPLICATIONS HANDBOOK. THESE LEVELS ADDRESS THE MECHANICAL SYSTEMS ONLY. ACTUAL SOUND PERFORMANCE REQUIREMENTS FOR EACH SPACE MUST BE VERIFIED WITH ACOUSTICAL CONSULTANT.
      a. OPEN OFFICES: 40
      B. CONFERENCE ROOMS: 30
      C. PRIVATE OFFICES: 30
      D. CORRIDORS: 40
      E. LOBBIES: 35
L. AIR FILTERS:
   1. OUTSIDE AIR PRE-FILTERS: MERV-8 (MINIMUM)
   2. FINAL FILTERS: MERV-13 (MINIMUM):
M. SEISMIC:
   1. ANCHORAGE AND RESTRAINTS MUST BE COORDINATED WITH STRUCTURAL ENGINEER AND AUTHORITY HAVING JURISDICTION.

2021 WSEC COMPLIANCE

GENERAL REQUIREMENTS

1. HVAC EQUIPMENT PERFORMANCE AT SPECIFIED RATING CONDITIONS SHALL NOT BE LESS THAN AS INDICATED IN SECTION C403.3.2 AND AS INDICATED ON THE CONTRACT DOCUMENTS.
2. MOTOR FULL-LOAD EFFICIENCY SHALL NOT BE LESS THAN AS INDICATED IN SECTION C405.8

AIR-SIDE SYSTEMS

1. AIR ECONOMIZERS SHALL BE PROVIDED ON COOLING SYSTEMS AS REQUIRED BY SECTION C403.5 SHALL BE EXEMPT PER EXCEPTION 9
2. BUILDING SHALL BE PROVIDED WITH A DEDICATED OUTDOOR AIR SYSTEM (DOAS) FOR VENTILATION PER C403.3.5
3. PROVIDE APPROPRIATE LOW, MEDIUM AND HIGH PRESSURE DUCT CONSTRUCTION PER SECTION C403.10.2.1 THROUGH C403.10.2.3
4. PROVIDE BALANCING DEVICES IN ALL BRANCH DUCTS AND PIPE RUNS TO TERMINAL DEVICES AS INDICATED ON THE CONTRACT DOCUMENTS
5. DUCTWORK SHALL COMPLY WITH SMACNA STANDARDS FOR CONSTRUCTION OF GALVANIZED DUCTWORK. ALL DUCTWORK SHALL BE SEALED AS REQUIRED BY SECTION C403.10.1 AND C403.10.2. DUCTWORK STATIC PRESSURE AND SEAL CLASS:

PRESSURE (IN. WC.)	SEAL CLASS
< 0.2"	SEAL TRANSVERSE AND LONGITUDINAL JOINTS, SEAMS AND DUCT PENETRATIONS (EXCEPT CONTINUOUSLY WELDED AND LOCKING-TYPE LONGITUDINAL JOINTS AND SEAMS).
0.2" - 0.3"	SEAL TRANSVERSE AND LONGITUDINAL JOINTS, SEAMS AND DUCT PENETRATIONS.
> 0.3"	SEAL TRANSVERSE AND LONGITUDINAL JOINTS, SEAMS AND DUCT PENETRATIONS; DUCTS AND PLEUMS LEAK-TESTED IN ACCORDANCE WITH SECTION C403.10.2.3.

6. DUCTWORK SHALL BE INSULATED AS REQUIRED BY SECTION C403.10.1 AND AS DESCRIBED IN THE SPECIFICATIONS.

DUCT TYPE	LOCATION	MINIMUM R-VALUE
OUTDOOR AIR	CONDITIONED SPACE, UPSTREAM OF AUTO SHUTOFF DAMPER, CLIMATE ZONE 4C & 5B, MORE THAN 2800 CFM	R-16
	CONDITIONED SPACE, DOWNSTREAM OF AUTO SHUTOFF DAMPER, CLIMATE ZONE 4C	R-8
	CONDITIONED SPACE, DOWNSTREAM OF AUTO SHUTOFF DAMPER, CLIMATE ZONE 5B	R-12
	CONDITIONED SPACE, LESS THAN 2800 CFM	R-7
SUPPLY OR RETURN AIR	OUTSIDE BUILDING, CLIMATE ZONE 4C	R-8
	OUTSIDE BUILDING, CLIMATE ZONE 5B	R-12
	UNCONDITIONED SPACE	R-6
	UNCONDITIONED SPACE, DUCT AIR WITHIN 15 F OF SURROUNDING AIR TEMP.	R-3.3
	IN BUILDING ENVELOPE ASSEMBLY	R-16
SUPPLY AIR	CONDITIONED SPACE, DUCT AIR LESS THAN 55 F OR GREATER THAN 105 F	R-3.3
	CONDITIONED SPACE WHERE DUCT DIRECTLY SERVES SPACE, DUCT AIR LESS THAN 55 F OR GREATER THAN 105 F	NONE
	CONDITIONED SPACE, DUCT AIR 55 F OR GREATER AND 105 F OR LESS	NONE
RETURN OR EXHAUST AIR	CONDITIONED SPACE, DOWNSTREAM OF ENERGY RECOVERY MEDIA, UPSTREAM OF AN AUTO SHUTOFF DAMPER, CLIMATE ZONE 4C	R-8
	CONDITIONED SPACE, DOWNSTREAM OF ENERGY RECOVERY MEDIA, UPSTREAM OF AN AUTO SHUTOFF DAMPER, CLIMATE ZONE 5B	R-12
RELIEF OR EXHAUST AIR	CONDITION SPACE, DOWNSTREAM OF AN AUTO SHUTOFF DAMPER	R-16

CONTROLS

1. PROVIDE DEADBAND BETWEEN HEATING/COOLING SPACE SENSOR SETPOINTS OF AT LEAST 5 DEGREES PER SECTION C403.4.1.2 AND AS DESCRIBED IN CONTRACT DOCUMENTS
2. SIMULTANEOUS HEATING AND COOLING TO INDIVIDUAL ZONES IS PROHIBITED PER SECTION C403.4.1 OF THE SEC.
3. INDIVIDUAL ZONES AND HVAC SYSTEMS SHALL BE CAPABLE OF AUTOMATIC SETBACK OR SHUTDOWN DURING UNOCCUPIED PERIODS AS REQUIRED BY SECTION C403.4.2 AND AS DESCRIBED IN CONTRACT DOCUMENTS.
4. PROVIDE OCCUPANCY SENSOR CONTROL OF VENTILATION SYSTEM PER SECTION C403.7.2 AND AS DESCRIBED IN CONTRACT DOCUMENTS
5. DAMPERS FOR OUTDOOR AIR INTAKE, EXHAUST AND RELIEF OUTLETS SHALL BE CONTROLLED TO CLOSE IN UNOCCUPIED MODE OR MEET EXCEPTION PER C403.7.8.4.
6. CONTROLS SYSTEM SHALL BE CAPABLE OF RESETTING SPACE SETPOINTS IN RESPONSE TO A BINARY INPUT FROM THE UTILITY PER C403.4.1.7 AND C403.4.11.4
7. PROVIDE ENERGY END USE METERS AS REQUIRED BY C409.3 FOR APPLICABLE HVAC EQUIPMENT.

HYDRONIC SYSTEMS

1. SUPPLY WATER TEMPERATURES SHALL BE AUTOMATICALLY RESET AS REQUIRED IN SECTION C403.4.4 AND AS DESCRIBED IN CONTRACT DOCUMENTS
2. PIPING SHALL BE INSULATED AS REQUIRED BY SECTION C403.10.3 AND AS DESCRIBED IN SPECIFICATIONS

SYSTEM TEMP. (F)	INSULATION CONDUCTIVITY	PIPE DIAMETER				
		< 1.0"	1.0" - 1.5"	1.5" - 4.0"	4.0" - 8.0"	> 8.0"
		INSULATION THICKNESS (IN.)				
> 350	0.32 - 0.34	4.5	5.0	5.0	5.0	5.0
251 - 350	0.29 - 0.32	3.0	4.0	4.5	4.5	4.5
201 - 250	0.27 - 0.30	2.5	2.5	2.5	3.0	3.0
141 - 200	0.25 - 0.29	1.5	1.5	2.0	2.0	2.0
105 - 140	0.21 - 0.28	1.0	1.0	1.5	1.5	1.5
40 - 60	0.21 - 0.27	0.5	0.5	1.0	1.0	1.0
< 40	0.20 - 0.26	0.5	1.0	1.0	1.0	1.5

3. CHILLED AND CONDENSER WATER PIPING SYSTEMS SHALL COMPLY WITH C403.3.7.
4. HEAT REFECTION AND HEAT RECOVERY EQUIPMENT SHALL COMPLY WITH C403.9.
5. PROVIDE MODULATING PRESSURE INDEPENDENT CONTROL VALVES FOR ALL HEATING AND COOLING WATER COILS WITH A DESIGN FLOW ≥ 5 GPM PER C403.4.12

TESTING & BALANCING

1. HVAC SYSTEMS SHALL BE BALANCED AS REQUIRED BY SECTION C408.2.2.
2. C403.10.2.3 PRESSURE TESTING; PROVIDE TEST RESULTS TO JURISDICTION WHEN COMPLETED.

COMMISSIONING

1. ALL SYSTEMS SHALL BE COMMISSIONED AND A COMMISSIONING REPORT PROVIDED TO THE OWNER AS REQUIRED BY SECTION C408 AND AS REQUIRED BY THE SPECIFICATIONS.
2. RECORD DRAWINGS SHALL BE PROVIDED TO THE OWNER WITHIN 90 DAYS OF SYSTEM ACCEPTANCE AS REQUIRED BY SECTION C103.6 AND AS REQUIRED BY THE SPECIFICATIONS. AT A MINIMUM, RECORD DRAWINGS SHALL INDICATE THE LOCATION AND PERFORMANCE DATA OF EQUIPMENT, GENERAL CONFIGURATION OF DUCTWORK AND PIPING DISTRIBUTION SYSTEMS INCLUDING FLOW RATES.
3. OPERATION AND MAINTENANCE MANUALS SHALL BE PROVIDED TO THE OWNER AS REQUIRED BY SECTION C103.6.2 AND AS REQUIRED BY THE SPECIFICATIONS. AT A MINIMUM, THE MANUALS SHALL INCLUDE:
   - SUBMITTAL DATA
   - OPERATION AND MAINTENANCE DATA FOR EQUIPMENT.
   - NAMES AND ADDRESSES OF SERVICE AGENCIES.
   - HVAC CONTROLS SYSTEM MAINTENANCE AND CALIBRATION INFORMATION.
   - NARRATIVE OF HOW SYSTEM IS INTENDED TO OPERATE

7/18/25	60% OWNER REVIEW
8/27/25	90% OWNER REVIEW
9/12/25	ISSUE FOR PERMIT
11/18/25	ISSUE FOR CONSTRUCTION

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CITY OF Vancouver WASHINGTON

ISSUE FOR CONSTRUCTION

FAA GRANT #3-53-0139-022-2026

PEARSON FIELD
TERMINAL RENOVATION PROJECT
PEARSON FIELD
101 EAST RESERVE ST.
VANCOUVER, WA 98661

DRAWING TITLE:
BASIS OF DESIGN AND TABULATED DATA

DRAWN BY: Author
CHECKED BY: Checker

M0.1

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ENERGY RECOVERY VENTILATOR SCHEDULE

TAG	#	MANUFACTURER	MODEL	AREA SERVED	LOCATION	SUPPLY AIR FAN			EXHAUST AIR FAN			HEAT EXCHANGER				ELECTRICAL							UNIT SIZE (L"xW"xH")	OPER. WT. (LBS)	NOTES
												SUMMER		WINTER											
						FLOW (CFM)	DRIVE	ESP (IN WG)	FLOW (CFM)	DRIVE	ESP (IN WG)	OA/EAT (DB/WB °F)	LAT (DB/WB °F)	EAT (DB/WB °F)	LAT (DB/WB °F)	VOLTS	PH	FLA (A)	MOCP (A)	VFD (Y/N)	SINGLE POC (Y/N)	EMERG POWER (Y/N)			
ERV	1.1	ALDES	H650A-FI-EC-N	TERMINAL	KITCHEN 103	570	DIRECT	0.5	570	DIRECT	0.4	86.1/65.6	78.1/63.4	24	57/48.1	208	1	6.3 A	15 A		Yes	No	36"x23"x47"	206	1-7

NOTES:
1. COORDINATE WITH ELECTRICAL FOR POWER AND DISCONNECT AS REQUIRED.
2. MOTORS SHALL BE DIRECT DRIVE.
3. ERV SHALL RUN CONTINOUSLY DURING OCCUPIED HOURS.
4. PROVIDE OUTSIDE AIR DAMPERS. DAMPERS SHALL BE AMCA CLASS 1A WITH MAXIMUM LEAKAGE OF 3 CFM/SF AT 1" WG. DAMPERS SHALL CLOSE TIGHT UPON COMMAND.
5. PROVIDE EXHAUST AIR DAMPERS. DAMPERS SHALL BE AMCA CLASS 1A WITH MAXIMUM LEAKAGE OF 3 CFM/SF AT 1" WG. DAMPERS SHALL CLOSE TIGHT UPON COMMAND.
6. PROVIDE MERV-13 FILTER BANK IN OUTSIDE AIR INTAKE PATH. TOTAL STATIC PRESSURE SHALL BE CALCULATED BASED ON LOADED FILTER PRESSURE DROPS. FINAL FILTER LOADED PRESSURE DROP=0.5" WG.
7. PROVIDE MERV-8 FILTER BANK IN EXHAUST AIR PATH ON INLET SIDE OF HEAT EXCHANGER. TOTAL STATIC PRESSURE SHALL BE CALCULATED BASED ON LOADED FILTER PRESSURE DROP=0.25" WG.

SPLIT SYSTEM HEAT PUMP FAN COIL SCHEDULE

TAG	#	COND UNIT TAG	MANUFACTURER	MODEL	AREA SERVED	LOCATION	COOLING CAPACITY		HEATING CAPACITY	SUPPLY						ELECTRICAL						UNIT SIZE (L"xW"xH")	OPER. WT. (LBS)	NOTES
							TOTAL (MBH)	SENSIBLE (MBH)	TOTAL (MBH)	AIR FLOW (CFM)	MIN OSA (CFM)	EAT (°F)	LAT (°F)	ESP (IN WG)	HP	VOLTS	PH	MCA (A)	MOCP (A)	EMERG POWER (Y/N)			
FCU	1.1	1.1	DAIKIN	FXTA42AAVJUA	PILOT LOUNGE, KITCHEN, LOBBY	PILOT LOUNGE	34.3	26.4	23.1	1000	380	78	53.5	0.3	0.5	208	1	6.5	15 A	No	49x10x27	85.3	1-3
FCU	1.2	1.2	DAIKIN	FXMA24AAVJU	HALLWAY, TOILETS, PILOT QUIET ROOM, FLIGHT PLAN ROOM	OFFICE #3	19.1	15.2	9.7	600	75	78	54.5	0.3	0.5	208	1	1.9	15 A	No	31x39x10	77	1-3
FCU	1.3	1.2	DAIKIN	FXMA18AAVJU	OFFICES, HALLWAY	UTILITY ROOM	15.4	12.5	9.5	500	40	78	54.8	0.3	0.5	208	1	1.9	15 A	No	49x10x27	82.9	1-3
FCU	1.4	1.2	DAIKIN	FXMA15AAVJU	OFFICES, KITCHENETTE, JANITOR CLOSET	HALLWAY #1	12.3	9.8	12.2	360	75	78	54.1	0.3	0.5	208	1	1.8	15 A	No	49x10x27	82.9	1-3

NOTES:
1. COORDINATE WITH ELECTRICAL FOR POWER AND DISCONNECT AS REQUIRED.
2. PROVIDE PROGRAMMABLE THERMOSTAT WITH TEMPERATURE SETPOINTS FOR AT LEAST FOUR SCHEDULING PERIODS WITHIN 24 HOURS.
3. HORIZONTAL FAN COIL WITH INTERGRAL CONDENSATE PUMP.

HEAT PUMP OUTDOOR UNIT SCHEDULE

TAG	#	FAN COIL TAG	MANUFACTURER	MODEL	LOCATION	COOLING			HEATING		REFRIG TYPE	REFRIG (LBS)	ELECTRICAL					UNIT SIZE (L"xW"xH")	OPER. WT. (LBS)	NOTES
						NOM. CAP. (MBH)	EER	SEER	NOM. CAP. (MBH)	COP			VOLTS	PH	MCA (A)	MOCP (A)	EMERG POWER (Y/N)			
HP	1.1	1.1	DAIKIN	KUSXB361A	GROUND - WEST	34.2	14	23	37	2	R32	7.6	208	1	19.8	20	No	37"x54"x13"	220	1-3
HP	1.2	1.2,1.3,1.4	DAIKIN	ZRUM048GSS0	GROUND - EAST	45.5	12	20	47.5	2	R32	9.8	208	1	29.4	30	No	18"x43"x34"	234	1-3

NOTES:
1. COORDINATE WITH ELECTRICAL FOR POWER AND DISCONNECTS AS REQUIRED.
2. PROVIDE DISTRIBUTION CONTROLLER AND REFRIGERANT PIPING PER MANUFACTURER'S REQUIREMENTS.
3. PROVIDE MANUFACTURER'S CONTROL SYSTEM.

ELECTRIC UNIT HEATER SCHEDULE

TAG	#	MANUFACTURER	MODEL	AREA SERVED	LOCATION	TYPE	AIR FLOW (CFM)	TEMP RISE (°F)	ELECTRICAL					UNIT SIZE (L"xW"xH")	OPER. WT. (LBS)	NOTES
									HEAT CAP (KW)	VOLTS	PH	MCA (A)	EMERG POWER (Y/N)			
EUH	1.1	MARKEL	E3055T2DWB	VESTIBULE 100	VESTIBULE 100	WALL	100	40	1.5	120	1	13	No	9"x12"3"	6	1-4

NOTES:
1. DISCONNECT PROVIDED BY ELECTRICAL.
2. MOUNT PER MANUFACTURER'S REQUIREMENTS AND MAINTAIN REQUIRED CLEARANCES.
3. UNIT SHALL BE PROVIDED WITH ADJUSTABLE DISCHARGE BLADES OR LOUVERS TO ALLOW DIRECTIONAL CONTROL OF AIRFLOW.
4. PROVIDE WITH UNIT INTEGRAL THERMOSTAT. SET TO MAINTAIN MINIMUM 50°F SPACE TEMPERATURE.

AIR TERMINAL SCHEDULE

TAG	MANUFACTURER	MODEL	DESCRIPTION	FACE TYPE	FACE SIZE	COLOR	MATERIAL	OBD	NOTES
EA	TITUS	50F	SQUARE CEILING EXHAUST	1/2" x 1/2" x 1/2" EGGCRATE	8x8	WHITE	STEEL	NO	1-6
EB	TITUS	PAR	SQUARE CEILING EXHAUST	PERFORATED	24"x24"	WHITE	STEEL	NO	1-6
RA	TITUS	PAR	SQUARE CEILING RETURN	PERFORATED	24"x24"	WHITE	STEEL	NO	1-6
RC	TITUS	56FS	AEROBLADE GRILLE RETURN	3/4" SINGLE SPACING, 45° DEFLECTION	24"x24"	WHITE	STEEL	YES	1-6
SA	TITUS	TDC	SQUARE CEILING SUPPLY	LOUVERED	12x12	WHITE	STEEL	NO	1-6
SB	TITUS	TMS	SQUARE CEILING SUPPLY	3-CONE	24"x24"	WHITE	STEEL	NO	1-6
SC	TITUS	272RS	AEROBLADE SUPPLY GRILLE	3/4" SPACING, DOUBLE DEFLECTION	24"x24"	WHITE	STEEL	NO	1-6

NOTES:
1. MAXIMUM TOTAL PRESSURE DROP SHALL NOT EXCEED 0.15" WG WITH DUCT TRANSITION.
2. MAXIMUM NC LEVEL SHALL BE 30.
3. ALL VISIBLE SURFACES AND DUCTWORK BEHIND FACE SHALL BE PAINTED FLAT BLACK.
4. COORDINATE WITH ARCHITECTURAL REFLECTED CEILING PLANS FOR BORDER TYPES.
5. NECK SIZE AND CFM SHOWN ARE ON PLANS (EXAMPLE: SA12x12-400 REFERS TO TAG "SA" WITH 12x12 NECK AND 400 CFM).
6. PROVIDE RECTANGULAR/SQUARE TO ROUND TRANSITION AS REQUIRED AND SIZED FOR MAXIMUM 0.01" WG TOTAL PRESSURE DROP.

7/18/25 60% OWNER REVIEW
8/27/25 90% OWNER REVIEW
9/12/25 ISSUE FOR PERMIT
11/18/25 ISSUE FOR CONSTRUCTION

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DRAWING TITLE:
SCHEDULES

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ISSUE FOR CONSTRUCTION

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OUTDOOR AIR CALCULATION - SINGLE ZONE OR 100% OSA SCHEDULE

SYSTEM:		DOAS-#	BASED ON ASHRAE 62.1-2019															
ROOM #	ZONE	NAME	CATEGORY	AREA (SF)	TABLE 6-1 OUTDOOR AIR (CFM/SF)	TABLE 6-1 OCCUPANCY (P/1000 SF)	CALCULATED OCCUPANTS	OVERRIDE # OCCUPANTS/ # FIXTURES	NUMBER OF # OCCUPANTS / FIXTURES	OCCUPANTS	OUTDOOR AIR REQ. (CFM/PERSON)	EXHAUST RATE REQ. (CFM/SF)	(Rp X Pz)	(Ra X Az)	BREATHING ZONE OUTDOOR AIRFLOW (CFM) Vbz	TABLE 6-4 ZONE AIR DIST. EFFECTIVENESS Ez	ZONE OUTDOOR AIR FLOW (CFM) Voz	EXHAUST REQUIRED (CFM)	OSA/EXH AIRFLOW PROVIDED (CFM)	AIR CLASS
102	FCU-1-1	PILOT LOUNGE	LECTURE CLASSROOM	759.83	0.06	65	49.4	25	25.0	25.0	7.5	--	187.5	45.6	233	0.8	291	--	300	1
103	FCU-1-1	KITCHEN	BREAK ROOMS	152.2	0.06	25	3.8	4	4.0	4.0	5.0	--	20.0	9.1	29	0.8	36	150	40	1
110	FCU-1-1	LOBBY	LOBBIES/PREFUNCTION	112.29	0.06	30	3.4		3.4	3.4	7.5	--	25.3	6.7	32	0.8	40	--	40	1
106	FCU-1-2	HALLWAY #1	COMMON CORRIDORS	68.64	0.06	0	0.0	1	1.0	1.0	--	--	0.0	4.1	4	0.8	5	--	5	1
104	FCU-1-2	TOILET 1	[EXH] TOILETS--PRIVATE	65.65	--	--	--	1	1.0	1.0	--	25/50	0.0	0.0	0	0.8	0	75	0	2
105	FCU-1-2	TOILET 2	[EXH] TOILETS--PRIVATE	69.83	--	--	--		0.0	0.0	--	25/50	0.0	0.0	0	0.8	0	75	0	2
108	FCU-1-2	PILOT QUIET ROOM	DAYROOM	221.77	0.06	30	6.7		6.7	6.7	5.0	--	33.3	13.3	47	0.8	58	--	60	1
107	FCU-1-2	FLIGHT PLAN ROOM	OFFICE SPACE	26.77	0.06	5	0.1		0.1	0.1	5.0	--	0.7	1.6	2	0.8	3	--	10	1
109	FCU-1-3	OFFICE #1	OFFICE SPACE	115.5	0.06	5	0.6	3	3.0	3.0	5.0	--	15.0	6.9	22	0.8	27	--	30	1
110	FCU-1-3	OFFICE #2	OFFICE SPACE	81.44	0.06	5	0.4		0.4	0.4	5.0	--	2.0	4.9	7	0.8	9	--	10	1
115	FCU-1-3	HALLWAY #2	COMMON CORRIDORS	111.85	0.06	0	0.0		0.0	0.0	--	--	0.0	6.7	7	0.8	8	--	15	1
112	FCU-1-4	BREAKROOM	BREAK ROOMS	144.92	0.06	25	3.6		3.6	3.6	5.0	--	18.1	8.7	27	0.8	34	100	35	1
114	FCU-1-4	JANITOR CLOSET	[EXH] JANITOR CLOSETS, TRASH ROOMS, RECYCLING	144.92	--	--	--		0.0	0.0	--	1.0	0.0	0.0	0	0.8	0	150	0	3
113	FCU-1-4	OFFICE #4	OFFICE SPACE	144.92	0.06	5	0.7		0.7	0.7	5.0	--	3.6	8.7	12	0.8	15	--	15	1
111	FCU-1-4	OFFICE #3	OFFICE SPACE	153.94	0.06	5	0.8		0.8	0.8	5.0	--	3.8	9.2	13	0.8	16	--	15	1
				2,374				Total all zones Pz:	**50**			**SUM**	**309**	**126**				**550**	**575**	

LEED +30% VENT: NO

OUTDOOR AIR INTAKE FLOW (CFM) , Vot: **542**

LOAD SUMMARY

EQUIPMENT	CU TAG #	AREA SERVED	COOLING				HEATING	
			CALCULATED		PROVIDED		CALCULATED	PROVIDED
			TOTAL MBH	SENSIBLE MBH	TOTAL MBH	SENSIBLE MBH	TOTAL MBH	TOTAL MBH
HEAT PUMP	HP-1.1	PILOT LOUNGE, LOBBY	35.4	29.9	34.3	27.9	23.1	27.9
HEAT PUMP	HP-1.2	OFFICES, CORRIDOR, BREAKROOM	41.7	39.4	46.5	46.5	31.4	40.9

NOTES:
1. CALCULATIONS WERE PERFORMED BY THE TRANE TRACE 700 SOFTWARE IN COMPLIANCE WITH ASHRAE FUNDAMENTALS.
2. EQUIPMENT SIZING MEETS THE REQUIREMENTS OF SEC C403.2.2.

LOAD SUMMARY

EQUIPMENT	CU TAG #	AREA SERVED	COOLING				HEATING	
			CALCULATED		PROVIDED		CALCULATED	PROVIDED
			TOTAL MBH	SENSIBLE MBH	TOTAL MBH	SENSIBLE MBH	TOTAL MBH	TOTAL MBH
FCU	1.1	PILOT LOUNGE, LOBBY, KITCHEN	35.4	29.9	34.3	26.4	23.1	27.9
FCU	1.2	BATHROOM, CORRIDOR, QUIET ROOM, FLIGHT PLAN ROOM	17.3	16.6	12.3	9.8	12.2	14.1
FCU	1.3	OFFICES	12.2	11.8	15.4	12.5	9.5	17.7
FCU	1.4	OFFICES, KITCHENETTE, CORRIDOR, UTILITY	12.2	10.9	19.1	15.2	9.7	22.2

NOTES:
1. CALCULATIONS WERE PERFORMED BY THE TRANE TRACE 700 SOFTWARE IN COMPLIANCE WITH ASHRAE FUNDAMENTALS.
2. EQUIPMENT SIZING MEETS THE REQUIREMENTS OF SEC C403.2.2.

ASHRAE 15 REFRIGERATION CONCENTRATION CALCULATIONS

EQUIPMENT TAG	OCCUPANCY	ROOM/ZONE NAME	ROOM AREA (SF)	CEILING HEIGHT (FT)	CONNECTED SPACE VOLUME (FT^3)	Veff, EFFECTIVE DISPERSAL VOLUME (FT^3)	REFRIGERANT TYPE	REFRIGERANT SAFETY GROUP	EQUIPMENT REFRIGERANT CHARGE (LBS)	PIPING REFRIGERANT CHARGE (LBS)	**ms, TOTAL SYSTEM CHARGE (LBS)**	LFL, LOWER FLAMMABILITY LIMIT (LBS/1000FT^3)	Focc, OCCUPANCY ADJUSTMENT FACTOR	**EDVC, EFFECTIVE DISPERSAL VOLUME CHARGE (LB)**	COMPLIES WITH SECTION 7.6.1.1? ms≤EDVC (YES/NO)	NOTES
HP-1-1	NON-INSTITUTIONAL	BREK001	119	9	1510	1,071	R32	A2L	6.6	1.0	**7.6**	19.1	1.0	**10.23**	YES	1
HP-1-2	NON-INSTITUTIONAL	PVOF001	104	9	1039	1,782	R32	A2L	6.0	3.8	**9.8**	19.1	1.0	**17.02**	YES	1

NOTES:
1. MAXIMUM ALLOWABLE REFRIGERANT CONCENTRATION LIMITS PER ASHRAE STANDARD 34 TABLES 4-1 AND 4-2.
2. INDICATED ROOM IS CONNECTED TO ADJACENT SPACE VIA DUCTED AIR DISTRIBUTION SYSTEM PER 7.2.3.3; INDICATED EFFECTIVE DISPERSAL VOLUME IS THE SUM OF INDICATED ROOM AND CONNECTED SPACE(S) VOLUMES, INCLUDING DUCTWORK.
3. INDICATED ROOM IS CONNECTED TO ADJACENT SPACE VIA PERMANENT NATURAL VENTILATION OPENING LOCATED A MAXIMUM OF 12" AFF PER 7.2.3.2; INDICATED EFFECTIVE DISPERSAL VOLUME IS THE SUM OF INDICATED ROOM AND CONNECTED SPACE(S) VOLUMES.

7/18/25 60% OWNER REVIEW
8/27/25 90% OWNER REVIEW
9/12/25 ISSUE FOR PERMIT
11/18/25 ISSUE FOR CONSTRUCTION

ISSUE FOR CONSTRUCTION

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DRAWING TITLE:
LOAD AND VENTILATION CALCS

DRAWN BY: Author
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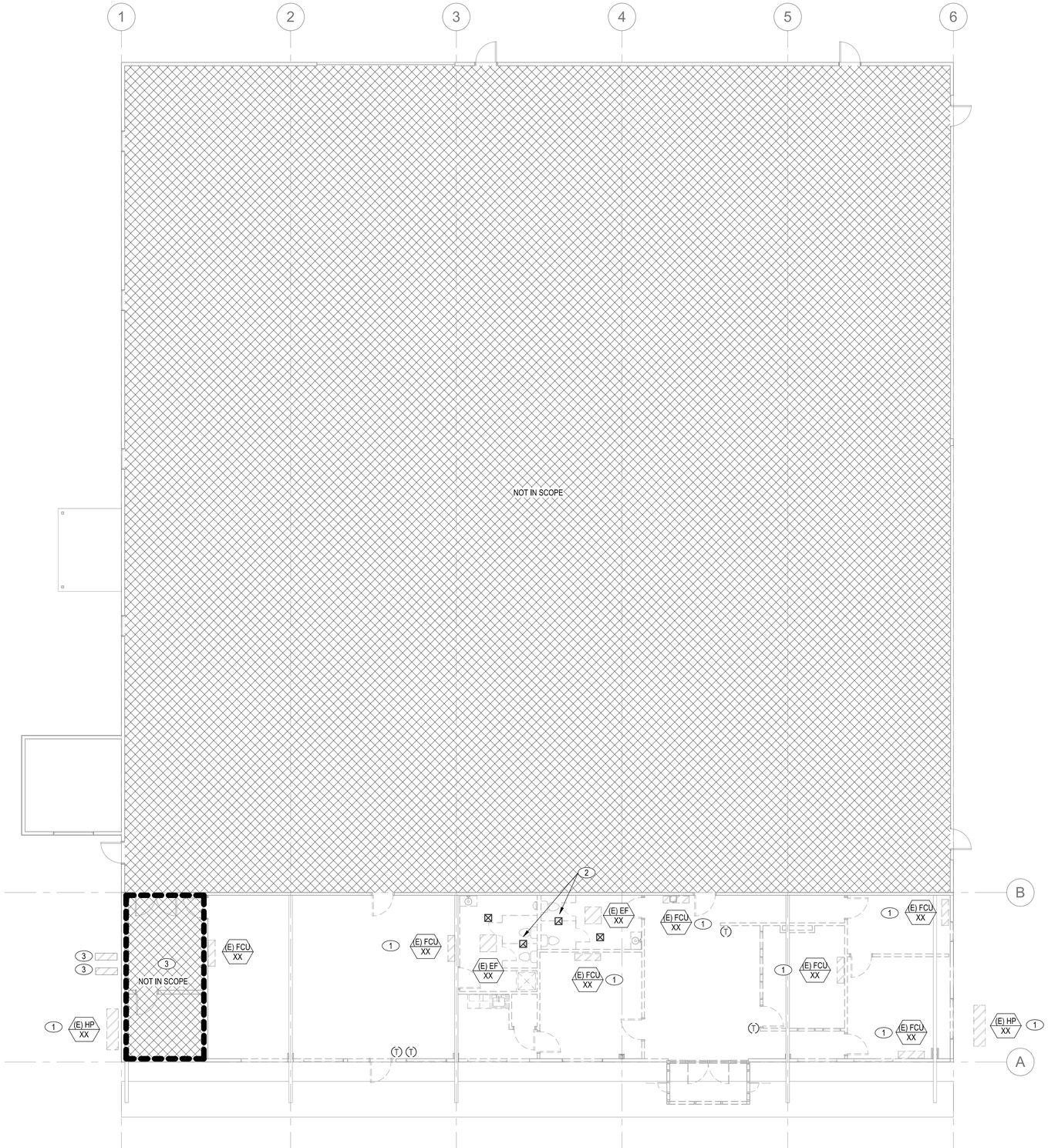

SHEET NOTES

A. FIELD VERIFY EXISTING CONDITIONS PRIOR TO BEGINNING WORK AND NOTIFY A/E OF ANY DISCREPANCIES.
B. ANY UTILITY SHUTDOWNS ARE TO BE COORDINATED WITH THE OWNER PRIOR TO BEGINNING OF DEMOLITION WORK.
C. DEMOLISH EXISTING EQUIPMENT MARKED FOR DEMOLITION TO INDICATED LOCATION INCLUDING ALL REFRIGERANT PIPING, CONTROLS, DUCTWORK, DAMPERS AND SUPPORTS. CAP EXHAUST DUCT TERMINATION FOR FUTURE CONNECTION.
D. PROTECT EXISTING FIRE PROTECTION SPRINKLER HEADS AND PIPING FROM DAMAGE DURING DEMOLITION.

KEYED NOTES ⟨#⟩

1. DEMO EXISTING SPLIT SYSTEM HEAT PUMP AND DUCTLESS WALL MOUNTED FAN COIL UNITS.
2. DEMO EXISTING CEILING FAN.
3. RETAIN EXISTING CONDENSING UNITS SERVING SPACE NOT IN SCOPE.

1 DEMO FLOOR PLAN - HVAC
SCALE: 1/8" = 1'-0"

1/8" = 1'-0"
0 8' - 0" 16' - 0" 24' - 0" 32' - 0"

7/18/25	60% OWNER REVIEW
8/27/25	90% OWNER REVIEW
9/12/25	ISSUE FOR PERMIT
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DEMO FLOOR PLAN - HVAC

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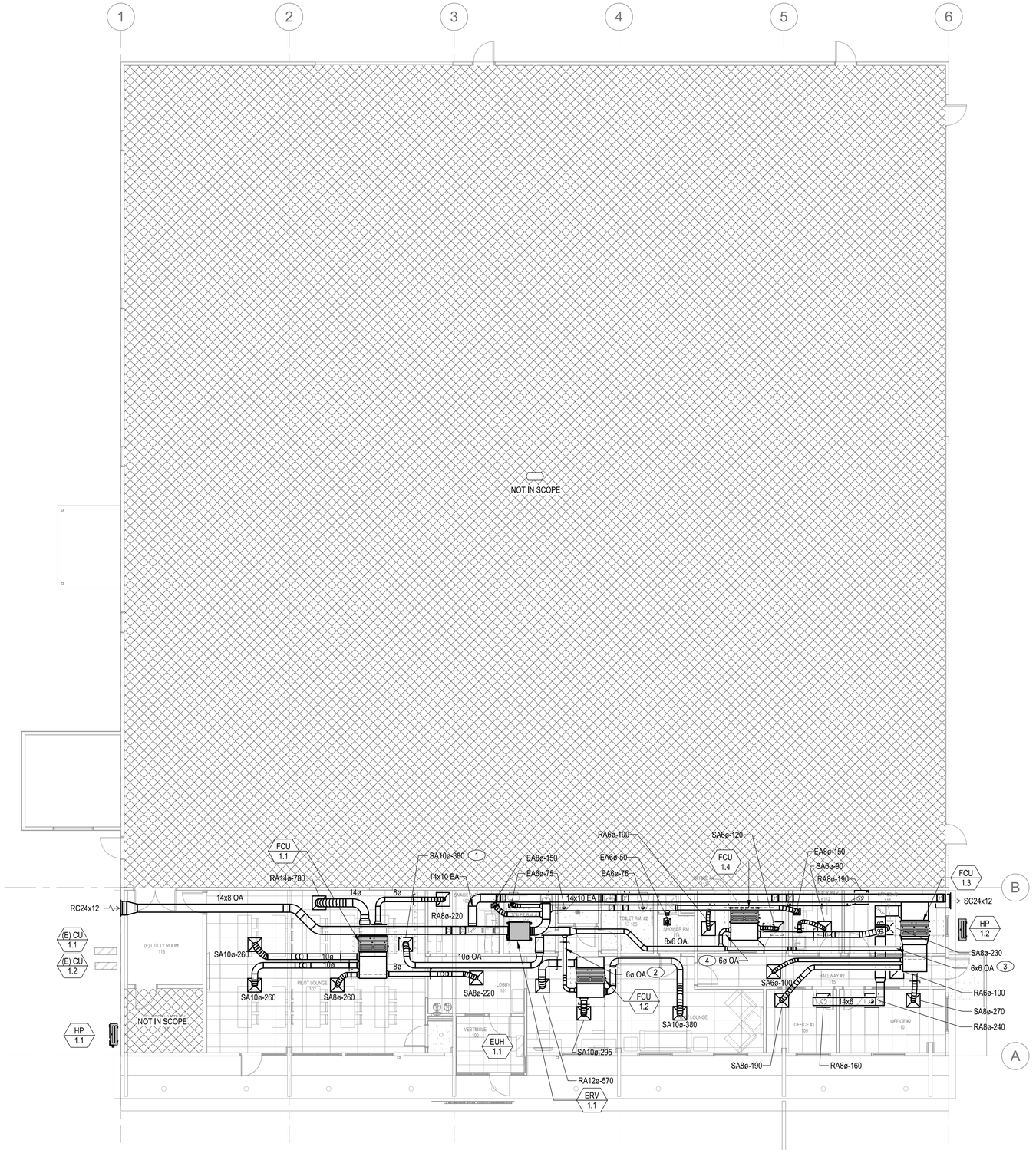

KEYED NOTES (#)

1. OA DISTRIBUTED FROM ERV-1.1
2. BALANCE OA DUCT TO 75 CFM TO FCU-1.2 SUPPLY PLENUM
3. BALANCE OA DUCT TO 50 CFM TO FCU-1.3 SUPPLY PLENUM
4. BALANCE OA DUCT TO 65 CFM TO FCU-1.4 SUPPLY PLENUM

1/8" = 1'-0"

0 8' - 0" 16' - 0" 24' - 0" 32' - 0"

1 FLOOR PLAN - HVAC

SCALE: 1/8" = 1'-0"

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8/27/25	90% OWNER REVIEW
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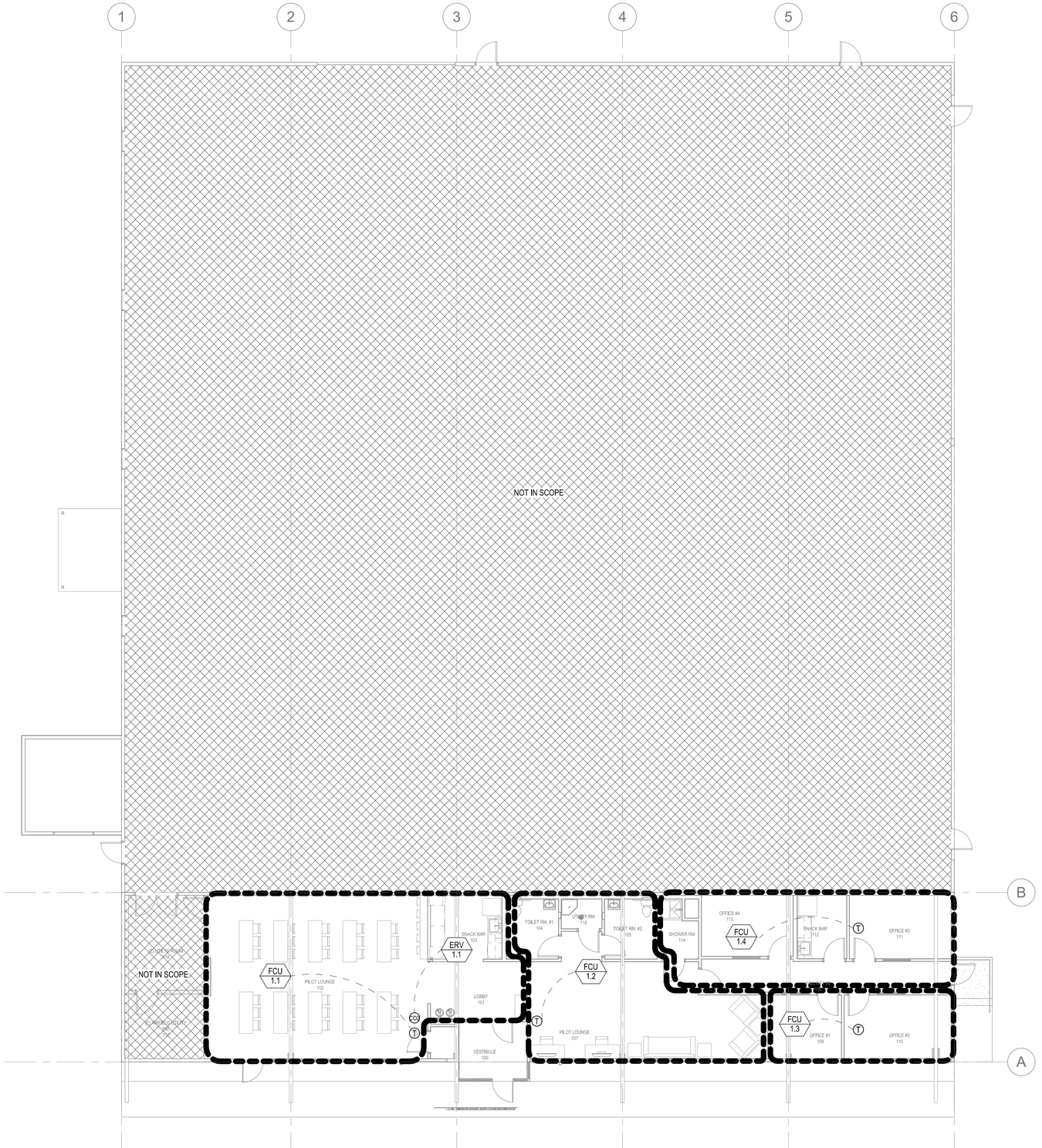

1 FLOOR PLAN - ZONING

SCALE: 1/8" = 1'-0"

1/8" = 1'-0"

0 8' - 0" 16' - 0" 24' - 0" 32' - 0"

7/18/25	60% OWNER REVIEW
8/27/25	90% OWNER REVIEW
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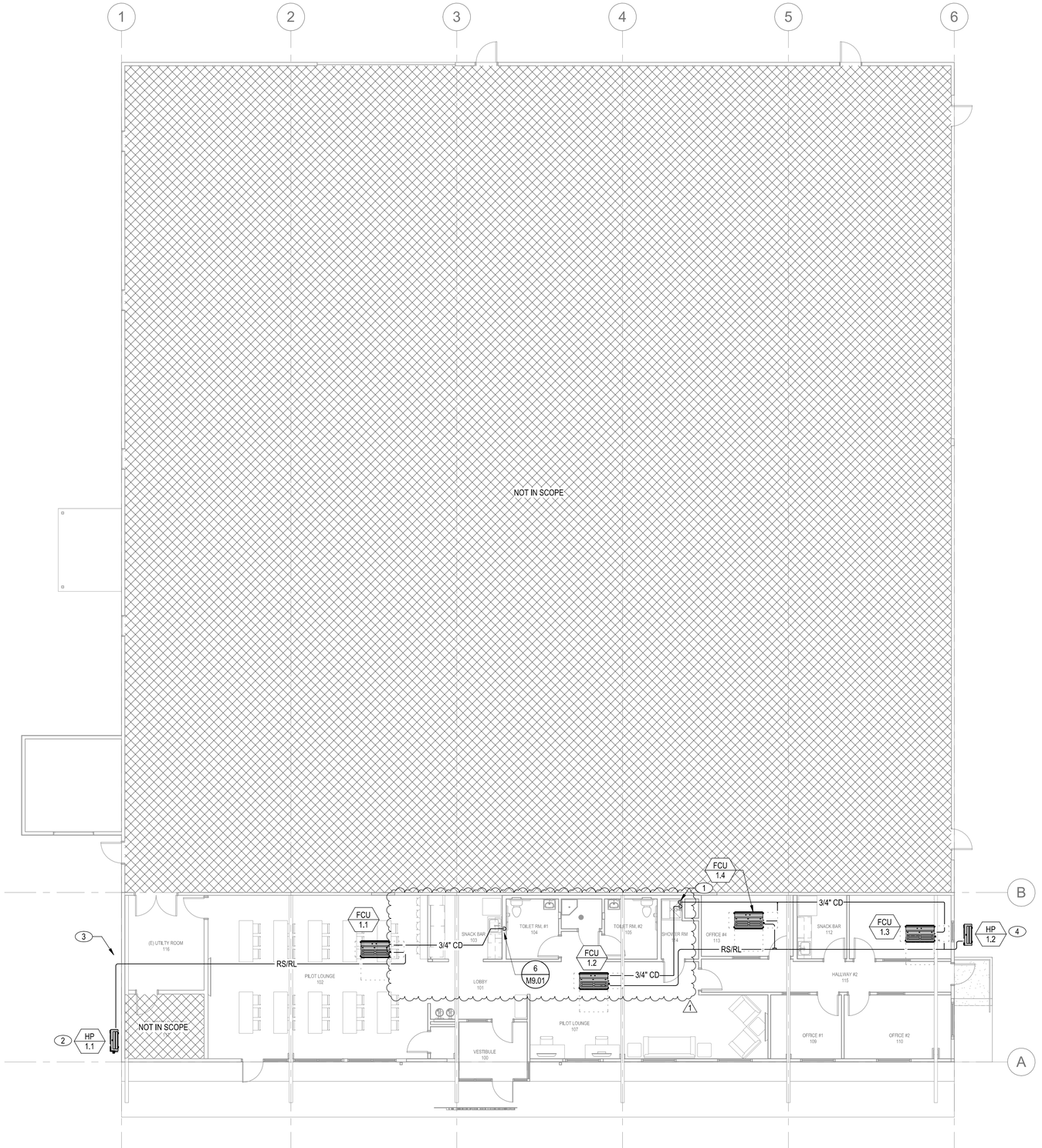

SHEET NOTES

A. INSTALL AND SIZE REFRIGERANT PIPING PER MANUFACTURER'S INSTRUCTIONS AND ACCORDING TO ASHRAE 15 STANDARDS.

KEYED NOTES ⟨#⟩

1. ROUTE 3/4" CD TO MOP SINK WITH 1" ARI GAP
2. UTILIZE EXISTING CONCRETE PAD TO MOUNT HP.
3. UTILIZE EXISTING WALL PENETRATION.
4. COORDINATE WITH ARCH AND STRUCT FOR NEW CONCRETE EQUIPMENT PAD.

1 FLOOR PLAN - REFRIGERANT PIPING

SCALE: 1/8" = 1'-0"

1/8" = 1'-0"

0 8' - 0" 16' - 0" 24' - 0" 32' - 0"

7/18/25	60% OWNER REVIEW	
8/27/25	90% OWNER REVIEW	
9/12/25	ISSUE FOR PERMIT	
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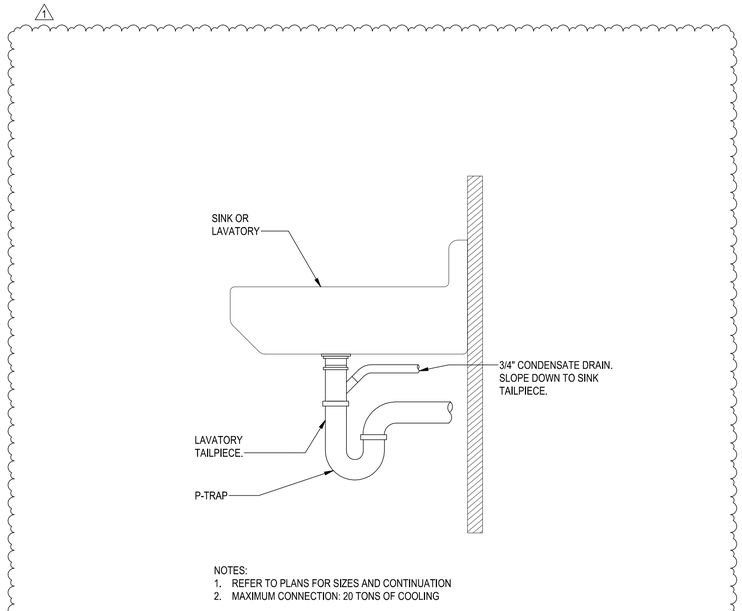
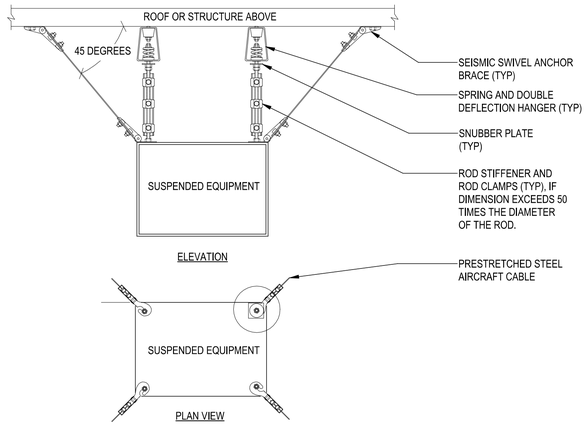


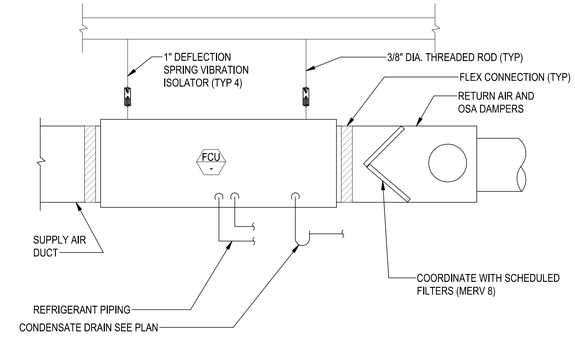
NOTES:
1. REFER TO PLANS FOR SIZES AND CONTINUATION
2. MAXIMUM CONNECTION: 20 TONS OF COOLING

6 CONDENSATE CONNECTION TO SINK TAILPIECE
SCALE: NONE



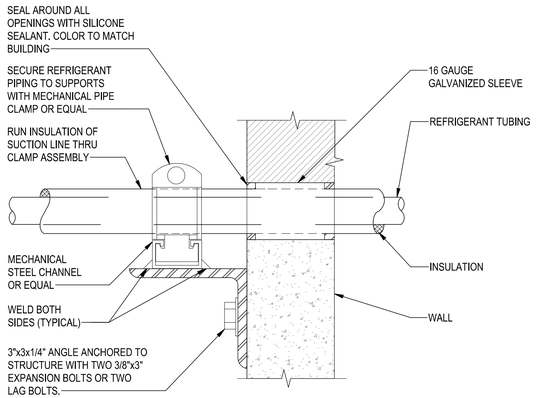
NOTES:
1. REFER TO SMACNA SEISMIC RESTRAINT MANUAL GUIDELINES FOR MECHANICAL SYSTEMS.
2. REFER TO ASHRAE PRACTICAL GUIDE TO SEISMIC RESTRAINT GUIDELINES.
3. SUPPORTS SHALL MEET ALL STATE AND LOCAL SEISMIC RESTRAINT REQUIREMENTS.
4. COORDINATE ANCHORAGE ATTACHMENT REQUIREMENTS WITH STRUCTURAL DESIGN.
5. INSTALL AS HIGH AS POSSIBLE ABOVE FLOOR TO ALLOW CLEARANCE FOR WORK OF OTHER TRADES.
6. PROVIDE SEISMIC BRACING AS REQUIRED BY BUILDING CODE AND ASCE STANDARD 7-10.

4 SUSPENDED EQUIPMENT MOUNTING
SCALE: NONE



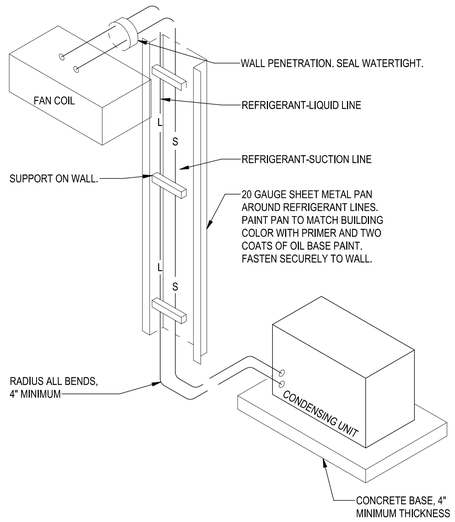
NOTES:
1. REFER TO PLANS FOR SIZES AND CONTINUATION.
2. PROVIDE MOISTURE ALARM IN SECONDARY DRAIN PAN WHERE NOTED ON THE EQUIPMENT SCHEDULE.

2 FAN COIL-SUSPENDED
SCALE: NONE



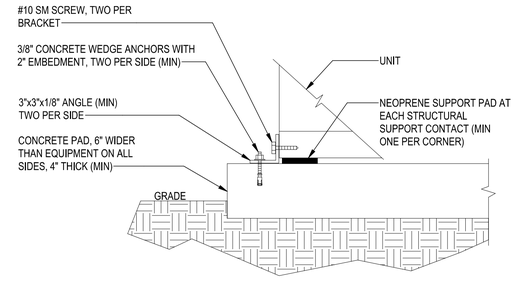
NOTES:
1. REFER TO PLANS FOR SIZES AND CONTINUATION.

5 REFRIGERANT PIPE SUPPORT AT WALL
SCALE: NONE



NOTES:
1. USE PRE-CHARGED LINE SETS. LENGTHS ARE TO BE KEPT AS SHORT AS POSSIBLE. COILING OF LINES THAT ARE TOO LONG WILL NOT BE ACCEPTABLE.

3 SPLIT SYSTEM REFRIGERANT PIPING SCHEMATIC
SCALE: NONE



NOTES:
1. COORDINATE ANCHORAGE REQUIREMENTS WITH STRUCTURAL DESIGN.

1 CONDENSING UNIT-PAD MOUNTED
SCALE: NONE

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8/27/25	90% OWNER REVIEW	
9/12/25	ISSUE FOR PERMIT	
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MECHANICAL DETAILS

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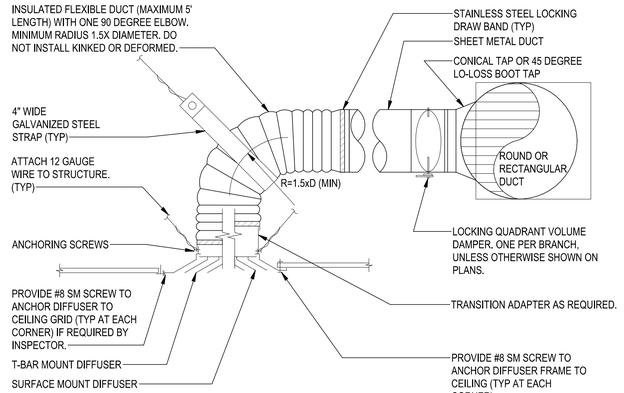
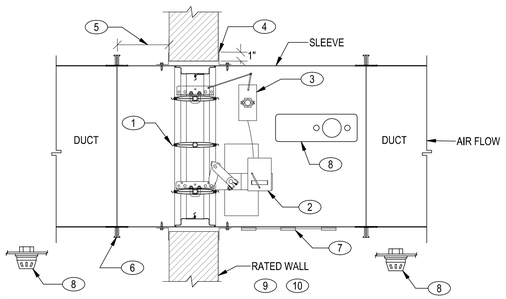


NOTES:
1. ACCESS TO BALANCING DAMPER MAY BE PROVIDED THRU REMOVABLE RETURN AIR REGISTER OR HINGED LIGHT FIXTURE.
2. FOR INACCESSIBLE CEILING USE REMOTE FLEXIBLE STEEL SHAFT DAMPER OPERATOR OR PROVIDE 18"x18" (MIN) ACCESS DOOR.
3. DIFFUSER FRAME SHALL MATCH ARCHITECTURAL CEILING TYPE.
4. IF FLEXIBLE DUCT SIZE INDICATED ON PLAN IS LARGER OR SMALLER THAN DIFFUSER NECK OR IF DIFFUSER NECK IS SQUARE OR RECTANGULAR PROVIDE TRANSITION FITTING AT DIFFUSER NECK.
5. REFER TO STRUCTURAL DESIGN FOR ATTACHMENT REQUIREMENTS AND ADDITIONAL SUPPORT OPTIONS.

2 CEILING DIFFUSER MOUNTING-FLEXIBLE

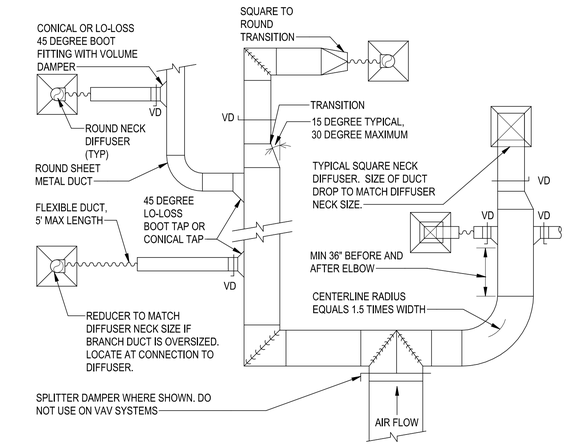
SCALE: NONE



NOTES: (#)
1. DAMPER BLADES
2. ELECTRIC ACTUATOR MOTOR INTERLOCKED WITH SMOKE DETECTOR OR FIRE ALARM SYSTEM. COORDINATE WITH ELECTRICAL DESIGN FOR POWER, CONTROL WIRING AND SEQUENCE OF OPERATION.
3. ELECTRIC RESETTABLE FUSIBLE LINK CLOSES AND LOCKS THE DAMPER WHEN TEMPERATURE EXCEEDS PRESET TEMPERATURE. DAMPER MAY BE RESET BY PRESSING RESET BUTTON. INTEGRAL DAMPER BLADE INDICATOR SWITCH FOR REMOTE MONITORING OF OPEN AND CLOSED POSITIONS.
4. STEEL RETAINING ANGLES, MINIMUM 1-1/2"x1-1/2"x0.060", FASTENED TO FIRE DAMPER SLEEVE. ANGLES SHALL BE INSTALLED ON ALL FOUR SIDES OF DAMPER AND ON EACH SIDE OF THE WALL. FASTEN ANGLE TO SLEEVE WITH #10 SHEET METAL SCREWS (MINIMUM). ANGLE GAUGE AND FASTENING METHOD AS PERMITTED AS A CONDITION OF DAMPER LISTING. REFER TO MANUFACTURER'S WRITTEN INSTALLATION INSTRUCTIONS. MINIMUM 1" ANGLE OVERLAP ON ALL SIDES OF PARTITION WALL.
5. DAMPER SLEEVE ON OPPOSITE SIDE OF WALL FROM ACTUATOR MUST BE MINIMUM 3" AND MAXIMUM OF 6" LONG.
6. DUCT CONNECTION AS PERMITTED PER DAMPER LISTING. FLANGED BREAK-AWAY STYLE DUCT/SLEEVE CONNECTIONS ARE SHOWN.
7. ACCESS DOOR SHOWN ON BOTTOM OF SLEEVE FOR ACCESS TO FIRE DAMPER BLADES. PANEL TO BE HINGED WITH AIRTIGHT SEAL. ACCESS SIZE MUST BE MINIMUM OF 12" BY 12" OR THE WIDTH OF DUCT IF SMALLER THAN 12" WIDE. ACCESS PANEL MUST BE LABELED WITH THE WORDS, "FIRE DOOR - DO NOT OBSTRUCT" IN LETTERS NO LESS THAN 1" IN HEIGHT. EXTERNAL INSULATION SHALL NOT CONCEAL ACCESS UNLESS A LABEL IS ATTACHED TO THE INSULATION WHICH INDICATES THE EXACT LOCATION OF THE OPENING.
8. DUCT SMOKE DETECTOR MOUNTED IN SLEEVE ON OPPOSITE SIDE FROM ACTUATOR WITHIN FIVE FEET OF DAMPER. OR, AREA SMOKE DETECTORS CONNECTED TO CENTRAL FIRE ALARM SYSTEM. SMOKE DETECTORS SHALL BE ADDRESSABLE AND UNIQUELY TAGGED.
9. LOCATE 3/4" HIGH WHITE PLASTIC LAMINATE SIGNS WITH 3/8" HIGH BLACK LETTERING WITH THE INITIALS "FSD" AND UNIQUE NUMBER ON THE CEILING ACCESS DOOR OR T-BAR CEILING GRID IN THE AREA OF THE DAMPER ACCESS PANEL. ATTACH TO CEILING WITH EPOXY ADHESIVE.
10. FIRE/SMOKE DAMPER DETAIL FOR REFERENCE ONLY. FIRE DAMPER SHALL BE STATE FIRE MARSHAL APPROVED. INSTALL PER MANUFACTURER'S PRINTED INSTALLATION INSTRUCTIONS WHICH SHALL BE MADE AVAILABLE TO INSPECTION AUTHORITIES.
11. UL 555 & 555S COMPLIANT. LISTINGS: RUSKIN#R5531, GREENHECK#R13317, POTTORFF#R11767, NAILOR#R9492, CESCO#R6462 .
12. REFER TO SPECIFICATION SECTION 233113 FOR ADDITIONAL REQUIREMENTS.

3 FSD WALL AIRFOIL BLADE

SCALE: NONE



NOTES:
1. PROVIDE DUCT LINER AND/OR EXTERNAL DUCT INSULATION AS NOTED ON PLANS OR IN SPECIFICATIONS.
2. PROVIDE HANGERS AND SEISMIC BRACING PER SMACNA AND BUILDING CODE REQUIREMENTS.
3. LOCATE MANUAL BALANCING DAMPERS IMMEDIATELY DOWNSTREAM OF EACH DUCT TAP.
4. CUSHION HEADS OR BULLHEAD TEES ARE NOT ALLOWED.
5. MAINTAIN MINIMUM 36" CLEARANCE BETWEEN LEADING OR TRAILING ELBOW JOINT AND DUCT TAP FITTINGS.
6. RADIUSED ELBOWS OR TURNING VANES REQUIRED ON RECTANGULAR DUCT SYSTEM ELBOWS. SINGLE THICKNESS VANES UP TO 25" HEIGHT AND DOUBLE THICKNESS VANES IN DUCTS GREATER THAN 25" HEIGHT.

1 SUPPLY DUCT FITTINGS

SCALE: NONE

7/18/25	60% OWNER REVIEW
8/27/25	90% OWNER REVIEW
9/12/25	ISSUE FOR PERMIT
11/18/25	ISSUE FOR CONSTRUCTION

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CITY OF Vancouver WASHINGTON

PEARSON FIELD
TERMINAL RENOVATION PROJECT
PEARSON FIELD
101 EAST RESERVE ST.
VANCOUVER, WA 98661

DRAWING TITLE:
MECHANICAL DETAILS

DRAWN BY: Author
CHECKED BY: Checker

M9.02

ISSUE FOR CONSTRUCTION

FAA GRANT #3-53-0139-022-2026

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ELECTRICAL LEGEND

NOTE: NOT ALL SYMBOLS OR ABBREVIATIONS ARE APPLICABLE TO THIS PROJECT. REFER TO DETAILS AND NOTES FOR MOUNTING HEIGHTS.

DISTRIBUTION & EQUIPMENT

SYMBOL	DESCRIPTION
	BRANCH CIRCUIT PANELBOARDS, SURFACE AND RECESS MOUNTED
	MOTOR CONTROL CENTER WITH CODE CLEARANCES SHOWN
	TRANSFORMER WITH CODE CLEARANCES SHOWN
	EQUIPMENT OR TERMINAL ENCLOSURE AS NOTED, SURFACE AND RECESS MOUNTED
	TWO STACKED 120/208-VOLT PANELBOARDS
	SERVICE AND/OR DISTRIBUTION EQUIPMENT WITH CODE CONCRETE EQUIPMENT PAD SHOWN.
	CONNECTION TO MOTOR PROVIDED BY OTHERS
VFD	CONNECTION TO VARIABLE FREQUENCY DRIVE WITH INTEGRAL DISCONNECT
30A	DISCONNECT SWITCH, SIZE AS NOTED OR IF NOT SHOWN SIZE PER CONNECTED MOTOR SIZE AND MOTOR DISCONNECT SCHEDULE
F 30A	FUSED DISCONNECT SWITCH, SIZE AS NOTED. SIZE FUSE PER MANUFACTURER'S RECOMMENDATIONS
C 60AT	ENCLOSED CIRCUIT BREAKER DISCONNECT SWITCH, TRIP SIZE AS NOTED.
	DISCONNECT W/ MAGNETIC MOTOR STARTER (CONTROLLER) OR CONTACTOR. SIZE PER LOAD SERVED. NEMA SIZE #1 MINIMUM.
	MAGNETIC MOTOR STARTER (CONTROLLER) OR CONTACTOR. SIZE PER LOAD SERVED. NEMA SIZE #1 MINIMUM.
DM	DAMPER MOTOR CONNECTION
	BUSWAY RISER
	CONNECTION TO EQUIPMENT PROVIDED BY OTHERS. SHADED = ON ALT. POWER SOURCE NOTED
	CONNECTION TO EQUIPMENT WITH INTEGRAL DISCONNECT PROVIDED BY OTHERS. SHADED = ON ALTERNATE POWER SOURCE NOTED

WIRING

SYMBOL	DESCRIPTION
	WIRING CONCEALED IN FLOOR OR UNDER GRADE OR ROUTED IN CEILING SPACE OF FLOOR BELOW.
T	TELEPHONE SYSTEM CONDUIT
MV	MEDIUM VOLTAGE CONDUIT
	WHEN SHOWN, STROKES INDICATE QUANTITY OF CONDUCTORS. NOTE: WIRING STROKES FOR 20A BRANCH CIRCUITS ARE NOT SHOWN ON DRAWINGS. CONTRACTOR SHALL USE INFORMATION IN PANEL AND BRANCH CIRCUIT SCHEDULES TO PROVIDE REQUIRED CIRCUITING.
	GROUND
	HOT
	NEUTRAL
L1A-1,3	HOME RUN WIRING TO INDICATED DESTINATION, 3/4"C. MIN. OR AS OTHERWISE NOTED. CONTRACTOR SHALL USE CIRCUIT SIZES NOTED IN RESPECTIVE SCHEDULES AND INFORMATION IN THE FEEDER AND BRANCH CIRCUIT SCHEDULES.
	CONDUIT OR WIRE BREAK SYMBOL
	CONDUIT RUN TURNED UP THROUGH FLOOR OR CEILING. CORE & FIREPROOF AS REQUIRED.
	CONDUIT RUN TURNED DOWN THROUGH FLOOR OR CEILING. CORE & FIREPROOF AS REQUIRED.
	CONDUIT STUBBED OUT AT LOCATION SHOWN. PROVIDE INSULATED BUSHING & PULLROPE.
	TELEPHONE/DATA SLEEVE THROUGH WALL. ABOVE CEILING. EXTEND TO ACCESSIBLE TILE CLG. BOTH SIDES. TERMINATE WITH BUSHINGS. (1) 1.25" CO UON. COORDINATE LOCATIONS WITH CABLE INSTALLER(S) PRIOR TO ROUGH-IN.
J J J	JUNCTION BOXES, WALL, CEILING AND FLUSH FLOOR MOUNTED. 4" SQ. BOX MIN., LARGER IF REQUIRED
	WIRING EXTENSION POINT - CONDUIT TO MC CABLE OR MANUFACTURED WIRING SYSTEM J-BOX ABOVE ACCESSIBLE CEILINGS AREAS, OR EXTEND CONDUIT & WIRE IN EXPOSED OR "HARD" CEILING AREAS. SHADED= ON ALT. POWER SOURCE (EMERG,UPS,ETC.)
PB	PULL BOX, MIN. SIZE PER NEC., UON.
	FLEXIBLE CONDUIT CONNECTION
	UNDERFLOOR RACEWAY WITH ACTIVATION BOXES
	LADDER STYLE CABLE TRAY, WIDTH AND RUNG SPACING AS SPECIFIED.
	BASKET STYLE CABLE TRAY. WIDTH AS SPECIFIED.

GENERAL SYMBOLS

SYMBOL	DESCRIPTION
(N)	NEW
(E)	EXISTING TO REMAIN
(D)	EXISTING TO BE REMOVED
(ER)	EXISTING TO BE RELOCATED
(RL)	NEW LOCATION OF RELOCATED ITEM
(F)	FUTURE
XX	KEYED NOTE REFERENCE
125.4	BRANCH CIRCUIT OR FEEDER TAG; REFER TO BRANCH CIRCUIT AND FEEDER SCHEDULE FOR WIRE AND CONDUIT SIZES & QUANTITY.
1 / E4.1	REFER TO DETAIL ON DRAWING INDICATED
2 / E4.1	ELEVATION TAG: REFER TO ELEVATION NUMBER ON DRAWING INDICATED
A / M-1	SECTION TAG: REFER TO SECTION NUMBER ON DRAWING INDICATED
K112	KITCHEN EQUIPMENT TAG, REFER TO KITCHEN EQUIPMENT SCHEDULE
CH 1	MECHANICAL EQUIPMENT IDENTIFICATION TAG
EQUIP NAME	EQUIPMENT BY OTHERS IDENTIFICATION TAG

SIGNAL DEVICES

SYMBOL	DESCRIPTION
	FIRE RATED PLYWOOD BACKBOARD, SIZE AS INDICATED ON PLANS
	SIGNAL SYSTEM EQUIPMENT ENCLOSURES AS NOTED- SURFACE, RECESSED MOUNTED
W	COMBO TELE/DATA OUTLET. PROVIDE 4" SQUARE J-BOX WITH 1-GANG MUD RUNG AND 1"C.O. TO ABOVE NEAREST ACCESSIBLE CEILING
W	TELEPHONE OUTLET - W = USE HIGHER MOUNTING HEIGHT PER MOUNTING HEIGHT DETAIL. ROUGH-IN BE SAME AS COMBO TELE/DATA OUTLET ABOVE.
	DATA OUTLET - WALL. ROUGH-IN TO BE SAME AS COMBO TELE/DATA OUTLET ABOVE.
B	BELL
	BUZZER
	CHIME
C C	SYSTEM CLOCK - WALL , CEILING
M I	INTERCOM STATION - WALL, DESK. M = MASTER STATION
	PUSHBUTTON OR PUSHBUTTONS
	PUSHBUTTON OR PUSHBUTTONS PROVIDED WITH EQUIPMENT
	RF COAX CABLE OUTLET (TV, VCR, ETC.)
	COMBINATION RF COAX CABLE AND DATA OUTLET
T	FURNITURE DATA FEED - WALL. PROVIDE 4" SQUARE J-BOX WITH 2-GANG MUD RING AND 1.75"C.O. TO ABOVE NEAREST ACCESSIBLE CEILING.
T	FURNITURE FLOOR DATA FEED. PROVIDE 2"C.O. STUBBED THROUGH FLOOR.
	FLUSH FLOOR DEVICE - DEVICE TYPE PER SYMBOLS ABOVE
	PEDESTAL FLOOR DEVICE - DEVICE TYPE PER SYMBOLS ABOVE

POWER DEVICES

SYMBOL	DESCRIPTION
	SIMPLEX RECEPTACLE - WALL, CEILING, ON ALT.
	DUPLEX RECEPTACLE - WALL, CEILING, ON ALT.
	DOUBLE DUPLEX RECEPTACLE - WALL, CLG, ON ALT.
	SPECIAL PURPOSE RECEPTACLE -WALL, CEILING ON ALT. POWER; NEMA CONFIGURATION AS NOTED
"ON ALT."	SHADED RECEPTACLES NOTED "ON ALT." ABOVE ARE CONNECTED TO ALTERNATE POWER SOURCE (EMERG., STANDBY, UPS, ETC.) PER CIRCUITING INDICATED
AB AB	LETTER DESIGNATIONS ADJACENT TO RECEPTACLE: AB = ABOVE COUNTER BACKSPLASH. S.A.D. C = HALF OF ONE DUPLEX CONTROLLED BY ROOM OCCUPANCY SENSOR R = HALF OF ONE DUPLEX CONTROLLED BY TIMERLOCK RELAY DC = ONE WHOLE DUPLEX CONTROLLED BY ROOM OCCUPANCY SENSOR DR = ONE WHOLE DUPLEX CONTROLLED BY TIMECLOCK RELAY GFI = DUPLEX RECEPTACLE W/ INTEGRAL GROUND FAULT CIRCUIT INTERRUPTER WP = WEATHERPROOF DUPLEX RECEPTACLE W/ IN-USE COVER AND INTEGRAL GFI
	DUPLEX RECEPTACLE - WALL - HALF SWITCHED
S	COMBINATION SWITCH/DUPLEX RECEPTACLE
+42"	RECEPTACLE TYPE SHOWN AT SPECIAL HEIGHT
	WALL, FLOOR MOUNTED ELECTRICAL CONNECTION TO ELECTRIFIED FURNITURE. PROVIDE 8 WIRES (4 HOTS, 1 DEDICATED NEUTRAL, 1 COMMON NEUTRAL, 1 IG) NEUTRALS TO BE #10 AWG. USE LIQUID-TIGHT FLEX.
	FLUSH FLOOR POKE THRU DEVICE - SIMPLEX, DUPLEX, DOUBLE DUBLEX
	FLUSH FLOOR BOX DEVICE - SIMPLEX, DUPLEX, DOUBLE DUPLEX
	PEDESTAL FLOOR DEVICE - SIMPLEX, DUPLEX, DOUBLE DUPLEX
	FLOOR POKE THRU PEDESTAL MOUNTED DEVICE - SIMPLEX, DUPLEX, DOUBLE DUPLEX RECEPTACLE
	POKE THRU UNIT WITH DOUBLE DUPLEX RECEPTACLE - FLUSH, PEDESTAL MOUNTED.
	COMBO POKE THRU UNIT WITH DUPLEX RECEPTACLE AND TELE\DATA OUTLET - FLUSH, PEDESTAL MOUNTED.
	MULTI-SERVICE FLOOR BOX CAST IN CONC. OR IN RAISED FLOOR - SEE ARCH DWGS; WITH RECEPTACLES & SIGNAL OUTLETS AS NOTED.
J	POKE THRU UNIT WITH JUNCTION BOX ABOVE FLOOR.
J	TELE/POWER POLE, POWER POLE
J	TWO-PIECE SURFACE METAL RACEWAY WITH RECEPTACLES AS NOTED, BACK LENGTH AS INDICATED ON THE DRAWINGS AND WITH ALL FITTINGS AS REQUIRED.
J	TWO OR THREE COMPARTMENT SURFACE METAL RACEWAY WITH RECEPTACLES AND OUTLETS AS INDICATED, LENGTH AS INDICATED ON THE DRAWINGS. PROVIDE ALL FITTINGS AS REQUIRED.

GROUNDING SYSTEM

SYMBOL	DESCRIPTION
G	BARE GROUNDING GRID OR CONDUCTORS, UON.
GC	GROUNDING CONDUCTOR(S) ROUTED IN CODE SIZED CONDUIT, UON.
	GROUND GRID BOND POINT
	GROUND GRID BOND POINT - MECHANICAL CONNECTION
	GROUND GRID BOND POINT - EXOTHERMIC WELD CONNECTION
	GROUND BAR, SEE PLANS AND SPECIFICATIONS FOR DIMENSIONS AND REQUIREMENTS
	GROUND ROD LOCATION
	GROUND ROD IN TEST WELL

ELECTRICAL DRAWING LIST

SHEET NUMBER	SHEET NAME	60% CD	90% CD	PERMIT	IFC
E0.00	ELECTRICAL LEGEND AND ABBREVIATIONS	X	X	X	X
E0.01	ELECTRICAL LEGEND AND ABBREVIATIONS	X	X	X	X
E0.02	CALCULATION TABLES AND NOTES	X	X	X	X
E0.03	MECHANICAL & PLUMBING EQUIPMENT CONNECTION SCHEDULE	X	X	X	X
E0.04	ENERGY CHECKLIST		X	X	X
E0.05	ENERGY CHECKLIST		X	X	X
E0.06	ENERGY CHECKLIST		X	X	X
E0.07	ENERGY CHECKLIST		X	X	X
ED2.01	DEMO FLOOR PLAN - POWER AND LIGHTING	X	X	X	X
E2.01	FLOOR PLAN - POWER	X	X	X	X
E5.01	ELECTRICAL SINGLE LINE DIAGRAM	X	X	X	X
E5.02	PANELBOARD SCHEDULES	X	X	X	X
E9.01	ELECTRICAL DETAILS	X	X	X	X
EL0.01	BASIS OF DESIGN AND LUMINAIRE SCHEDULE	X	X	X	X
EL2.01	FLOOR PLAN - LIGHTING	X	X	X	X

Grand total: 15

DIAGRAMS

SYMBOL	DESCRIPTION
	TRANSFER SWITCH. ATS = AUTOMATIC. MTS = MANUAL TRANSFER
	AUTOMATIC TRANSFER SWITCH WITH MAINTENANCE BYPASS(BIATS)
	SWITCH
60AT 30A	BUSWAY STAB-IN TYPE CIRCUIT BREAKER OR FUSE DISCONNECT. SIZE AS NOTED.
	FIELD INSTALLED CONTROL CIRCUIT WIRING TO DESTINATION SHOWN, U.O.N.
	OVERLOADS
	NORMALLY CLOSED CONTACTOR OR RELAY CONTACTS
	NORMALLY OPEN CONTACTOR OR RELAY CONTACTS
	BUS DUCT
	BUS BAR
	BATTERY GENERAL
	RESISTOR
	CONNECTOR, FEMALE AND MALE RESPECTIVELY
	PIPE GROUND
C	CONTACTOR COIL
R	RELAY COIL
D	LIGHTNING SURGE ARRESTOR D = DISTRIBUTION CLASS I = INTERMEDIATE CLASS
SPD	SURGE PROTECTION DEVICE
	CURRENT TRANSFORMER
	POTENTIAL TRANSFORMER
	NORMALLY OPEN PUSH BUTTON
	NORMALLY CLOSED PUSH BUTTON
	FUSED VOLTAGE SENSE LEADS
PF	METER: POWER FACTOR
KWH	METER: KILOWATT HOUR
M M	UTILITY CO. APPROVED SOCKET WITH METER INSTALLED. SQUARE = REMOTE MOUNTED
DMU	DIGITAL METER UNIT. REFER TO SPECIFICATIONS.
STB	CURRENT TRANSFORMER SHORTING TERMINAL BLOCK.
	TERMINAL FOR FIELD CONNECT, SIZE & TYPE SUITABLE FOR CONDUCTOR INSTALLED.
	LED INDICATOR LIGHT, PUSH TO TEST, R=RED, G= GREEN, B= BLUE, Y= YELLOW, W= WHITE
	DELTA CONNECTION
	GROUNDED WYE CONNECTION
	CONNECTION TO GROUND
100AT 225AF	CIRCUIT BREAKER, WITH TRIP & FRAME AMPERE RATING
225AF 400AS	FUSED SWITCH, WITH FUSE AND SWITCH AMPERE RATING
	INDIVIDUALLY MOUNTED CIRCUIT BREAKER
52	CIRCUIT BREAKER, MEDIUM VOLTAGE, DRAWOUT
	DRAWOUT CIRCUIT BREAKER
GF	GROUND FAULT TRIP UNIT
GFA	GROUND FAULT ALARM ONLY
BA	BELL ALARM TRIP MODULE CONTACTS
ST	SHUNT TRIP UNIT, 120VAC OR VOLTAGE AS NOTED
MCM	MONITORING COMMUNICATION MODULE
AM	INTEGRAL AMMETER DISPLAY
K	KEY INTERLOCK
10	CAPACITOR, POWER FACTOR CORRECTION, SIZE IN KVAR
	FUSE, HOLDER & PULLER
	SOLENOID

7/18/25	60% OWNER REVIEW	
8/27/25	90% OWNER REVIEW	
9/12/25	ISSUE FOR PERMIT	
11/18/25	ISSUE FOR CONSTRUCTION	

ISSUE FOR CONSTRUCTION

FAA GRANT #3-53-0139-022-2026

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CITY OF Vancouver WASHINGTON

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ELECTRICAL LEGEND

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LIGHTING

SYMBOL	DESCRIPTION
	RECESSED 2X4 LUMINAIRE
	SURFACE MOUNTED 2X4 LUMINAIRE
	RECESSED 1X4 LUMINAIRE
	SURFACE MOUNTED 1X4 LUMINAIRE
	RECESSED 2X2 LUMINAIRE
	SURFACE MOUNTED 2X2 LUMINAIRE
	SHADING OF ANY LUMINAIRE INDICATES CONNECTION TO ALTERNATE POWER SOURCE (EMERGENCY, UPS, STANDBY, ETC.) PER CIRCUITING INDICATED
	SUSPENDED LINEAR LUMINAIRE (SIZE VARIES)
	WALL MOUNTED LINEAR LUMINAIRE (SIZE VARIES)
	SUSPENDED PENDANT LUMINAIRE (SIZE VARIES)
	RECESSED DOWNLIGHT, CEILING MOUNTED
	SURFACE DOWNLIGHT, CEILING MOUNTED
WW DIRECTION	RECESSED WALLWASH
WW DIRECTION	SURFACE WALLWASH
	RECESSED LINEAR WALLWASH
	SURFACE LINEAR WALLWASH
	RECESSED WALL MOUNTED LUMINAIRE
	TRACK LIGHTING WITH HEADS AS INDICATED.
	RECESSED CEILING ADJUSTABLE POINT SOURCE
	SURFACE CEILING ADJUSTABLE POINT SOURCE
	WALL MOUNTED LUMINAIRE
	WALL MOUNTED DIRECTIONAL (SIZE VARIES)
	STRIPLIGHT - POWER FEED SECTION, FEED THROUGH SECTION. LENGTH AS SHOWN.
	WALL MOUNTED STRIPLIGHT
	UNDERCABINET STRIPLIGHT
	CONTINUOUS LINEAR
	BATTERY POWER EMERGENCY UNIT EQUIPMENT (SEE LUMINAIRE SCHEDULE FOR QUANTITY OF HEADS) - WALL, CEILING MOUNTED.
	ILLUMINATED EXIT SIGN, SHADED QUADRANT INDICATES FACES, ARROWS AS SHOWN
	BOLLARD
	POLE MOUNTED LUMINAIRE- SINGLE OR DUAL HEAD
	INDICATES ROTATED OPTICS
	POST TOP MOUNTED LUMINAIRE
	IN-GRADE POINT SOURCE
	GARAGE LIGHTING LUMINAIRE WITH CUTOFF LOUVERS
HA 3c	LUMINAIRE MARKING CONVENTION LEGEND: HA = LUMINAIRE TYPE IDENTIFICATION. SEE LUMINAIRE SCHEDULE. 3c = CIRCUIT NUMBER VIA LOCAL SWITCH (LOWERCASE LETTER) THAT SERVES THE LUMINAIRE. 3A = CIRCUIT NUMBER/UPPERCASE LETTER COMBINATION INDICATES LOW VOLTAGE RELAY OR LIGHTING CONTACTOR THAT SERVES THE LUMINAIRE
HA 3A	

SWITCHING CONTROLS

SYMBOL	DESCRIPTION
S[a] OS a,b	LOWER CASE LETTER NOTATIONS ADJACENT TO SWITCH OR LIGHTING CONTROL DEVICE INDICATE SIMILARLY MARKED LUMINARIES THAT ARE TO BE CONTROLLED BY THAT SWITCH OR DEVICE
S_{xx}	LINE VOLTAGE SWITCH. DESIGNATION ADJACENT TO SWITCH INDICATES TYPE AS FOLLOWS: 2 = TWO POLE SWITCH 3 = THREE WAY SWITCH 4 = FOUR WAY SWITCH K = KEY OPERATED SWITCH XP = EXPLOSION PROOF WP = WEATHERPROOF P = PILOT IS "ON" WHEN SWITCH IS "ON" PL = PILOT IS "ON" WHEN SWITCH IS "OFF" TS = TIMER SWITCH OR# = LIGHTING CONTROL OVERRIDE SWITCH NUMBER INDICATES ZONE CONTROLLED
S_V	LINE VOLTAGE, VARIABLE SPEED FAN CONTROL SWITCH, PROVIDED BY DIV. 23 INSTALLED BY DIV. 26. LOCATE ADJACENT TO ADJACENT LIGHT SWITCHES.
D	LINE VOLTAGE DIMMER SWITCH WITH RATING EQUAL TO LOAD. DESIGNATION ADJACENT TO DIMMER INDICATES ADDITIONAL FEATURES AS FOLLOWS: OS = INTEGRAL OCCUPANCY SENSOR
D	DIMMER SWITCH UNDER SEPARATE COVERPLATE
S_T	MOTOR-RATED THERMAL OVERLOAD SWITCH
S^{a} $\square^{a}$	LOW VOLTAGE SWITCH/DIMMER. SEE SEQUENCE OF OPERATION FOR BUTTON QUANTITY AND ZONE/SCENE PROGRAMMING REQUIREMENTS. DESIGNATION ADJACENT TO SWITCH INDICATES ADDITIONAL FEATURES AS FOLLOWS: K = KEY OPERATED OS = INTEGRAL OCCUPANCY SENSOR T = TIMER TS = TOUCH SCREEN
PC	PHOTOCELL
TC	TIME CLOCK
OS a,b	OCCUPANCY SENSOR \ SWITCH - WALL MOUNTED PROVIDE 1 OR 2 SWITCH UNIT AS REQUIRED TO SERVE LIGHTING IN ROOM PER SWITCH DESIGNATION.
OS	OCCUPANCY SENSOR; CEILING MOUNTED U.O.N 360 DEGREE COVERAGE
OS	OCCUPANCY SENSOR; CEILING MOUNTED U.O.N 180 DEGREE COVERAGE
OS	OCCUPANCY SENSOR; CEILING MOUNTED U.O.N CORRIDOR/AISLE COVERAGE
RCL	LIGHTING SYSTEM ROOM CONTROLLER
RCR	LIGHTING SYSTEM RECEPTACLE CONTROLLER
EM	UL294 EMERGENCY LIGHTING RELAY
T T	THERMOSTAT - WALL, CEILING. PROVIDED BY DIV. 23, INSTALLED AND WIRED BY DIV. 26
EPO	EMERGENCY POWER OFF
LCP-#	LIGHTING CONTROL PANEL AND ASSOCIATED COMPONENTS. PROVIDE 120V OR 277V CONTROL POWER AS REQUIRED OR AS INDICATED.
TX	REMOTE MOUNTED LINE TO LOW-VOLTAGE FUSED TRANSFORMER. CONCEAL FROM VIEW.

SECURITY SYSTEM

SYMBOL	DESCRIPTION
CR	CARD READER. PROVIDE BACKBOX AS REQUIRED BY EQUIPMENT MANUFACTURER WITH 3/4"C.O. TO ABOVE ACCESSIBLE CEILING SPACE FOR INSTALLATION OF DEVICE AND WIRING BY SECURITY SYSTEM INSTALLER.
KP	ACCESS CONTROL KEYPAD. ROUGH-IN SAME AS CARD READER ABOVE.

FIRE ALARM SYSTEM

SYMBOL	DESCRIPTION
FACP	FIRE ALARM CONTROL PANEL AND ASSOCIATED COMPONENTS. PROVIDE 120V POWER AS REQUIRED OR AS INDICATED.
FSA	FIRE ALARM SYSTEM ANNUNCIATOR
F	FIRE ALARM SYSTEM MANUAL PULL STATION, WALL MOUNTED
	ALARM BELL OR GONG
	STROBE LIGHT - WALL, CEILING MOUNTED (# = CANDELA RATING)
	SPEAKER - WALL, CEILING MOUNTED
	COMBINATION SPEAKER/STROBE, WALL MOUNTED (# = CANDELA RATING)
	HORN - CEILING, WALL MOUNTED
	COMBINATION HORN/STROBE - WALL, CEILING MOUNTED (# = CANDELA RATING)
	COMBINATION MINI HORN/STROBE - WALL, CEILING MOUNTED (# = CANDELA RATING)
	SPRINKLER VALVE TAMPER SWITCH CONNECTION
	SPRINKLER FLOW SWITCH CONNECTION
BR,BT	LIGHT BEAM TYPE SMOKE DETECTOR (BR=BEAM RECEIVER, BT=BEAM TRANSMITTER)
	SMOKE DETECTOR, DUCT MOUNTED, WITH FULL WIDTH SAMPLING TUBES. PHOTOELECTRIC TYPE U.O.N.
D	SMOKE DETECTOR, LOW AIR VELOCITY IN DUCT MOUNTED PHOTOELECTRIC TYPE U.O.N.
P,B,R,C	SMOKE DETECTOR - WALL, CEILING MOUNTED (P=PLENUM MOUNTED, B=W/ RELAY BASE, R=ELEVATOR RECALL, C=INTEGRAL TO DOOR CLOSURE)
	SMOKE DETECTOR MOUNTED BELOW RAISED FLOOR
C	ELECTROMAGNETIC DOOR HOLDER - WALL, FLOOR, DOOR CLOSURE MOUNTED. VERIFY REQUIREMENTS WITH DOOR SUPPLIER.
LM	DATA LOOP ISOLATION MODULE
CM	ADDRESSABLE CONTROL MODULE
MM	ADDRESSABLE MONITOR MODULE
EOL	END OF LINE RESISTOR (NOT SHOWN ON PLANS)
J	FIREMAN'S PHONE JACK, WALL MOUNTED
P	FIREMAN'S PHONE HANDSET, WALL MOUNTED
	FIRE/SMOKE DAMPER, WIDTH OF SYMBOL WILL VARY WITH DUCT WIDTH. PROVIDE POWER AND MONITORING AS INDICATED. REFER TO FSD CONNECTION DETAIL.
	FLAME DETECTOR (FLICKER DETECTOR)
	HEAT DETECTOR, CEILING MOUNTED. RATE OF RISE AND FIXED TEMPERATURE TYPE, UON.
R/C,F,R	HEAT DETECTOR (R/C=RATE OF COMBUSTION, F=FIXED TEMP. ONLY, R=RATE OF RISE ONLY)
EWSD	EARLY WARNING SMOKE DETECTION SYSTEM - INCLUDES ALL PIPING BY ELECTRICAL
	LIGHT (LAMP, SIGNAL LIGHT, INDICATOR LAMP, STROBE)
A	FIRE ALARM OUTPUT OR RELEASE ABORT PUSHBUTTON, REFER TO SPECIFICATIONS AND DETAILS.
	AGENT RELEASE INITIATING VALVE
	BELL SILENCE SWITCH
	AGENT DISCHARGE SWITCH

DEFERRED SUBMITTALS/ DELEGATED DESIGN

FOR ALL ITEMS LISTED BELOW, THE ELECTRICAL CONTRACTOR SHALL PROVIDE A DELEGATED DESIGN SUBMITTAL WITH DOCUMENTATION AND ENGINEERING REQUIRED TO SATISFY REQUIREMENTS OF THE AUTHORITY HAVING JURISDICTION (AHJ) AND OWNER. THE DELEGATED DESIGN SUBMITTAL SHALL INCLUDE BUT NOT BE LIMITED TO ANALYSIS DATA SIGNED AND SEALED BY A QUALIFIED PROFESSIONAL ENGINEER RESPONSIBLE FOR THEIR PREPARATION.

1. HANGERS AND SUPPORTS FOR ELECTRICAL SYSTEMS
2. SHORT-CIRCUIT STUDIES
3. ARC-FLASH HAZARD ANALYSIS
4. LIGHTING CONTROL DEVICES
5. ADDRESSABLE FIRE-ALARM SYSTEMS

ABBREVIATIONS

(N)	NEW
(E)	EXISTING TO REMAIN
(D)	EXISTING TO BE REMOVED
(ER)	EXISTING TO BE RELOCATED
(RL)	NEW LOCATION OF RELOCATED ITEM
(F)	FUTURE
AB	ABOVE COUNTER BACKSPLASH
ACU	AIR CONDITIONING UNIT
AC	ALTERNATING CURRENT
A, AMP	AMPERES
ADJ	ADJACENT
AF	AMPERE (RATED) FUSE OR CB FRAME
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AHJ	AUTHORITY HAVING JURISDICTION
AIC	EQUIPMENT SHORT CIRCUIT INTERRUPT RATING (RMS SYM. AMPS)
AL	ALUMINUM (ALLOY)
ALC	AUTOMATIC LIGHTING CONTROL
AS	AMPERE (RATED) SWITCH
AT	CIRCUIT BRKR TRIP SETTING (AMPS)
ATS	AUTOMATIC TRANSFER SWITCH
AUTO	AUTOMATIC
AUX	AUXILIARY
AWG	AMERICAN WIRE GAUGE
BATT	BATTERY
BC	BARE COPPER
BG	BELOW GRADE
BRKR	CIRCUIT BREAKER
C	CONDUIT (CIRCULAR RACEWAY)
CAB	CABINET
CB	CIRCUIT BREAKER
CFM	CUBIC FEET PER MINUTE
CKT	CIRCUIT
CLG	CEILING
CO	CONDUIT ONLY
CPT	CONTROL POWER TRANSFORMER
CT	CURRENT TRANSFORMER
CU	COPPER
DC	DIRECT CURRENT
DISC	DISCONNECT
DIA	DIAMETER
DIV	DIVISION
DP	DISTRIBUTION PANEL
DPDT	DOUBLE POLE DOUBLE THROW
DPST	DOUBLE POLE SINGLE THROW
DWG	DRAWING
E.EMER	EMERGENCY
EF	EXHAUST FAN
EMT	ELECTRICAL METALLIC TUBING
ENCL	ENCLOSURE
EO	ELECTRICALLY OPERATED
EOL	END OF LINE
EWC	ELECTRIC WATER COOLER
EWH	ELECTRIC WATER HEATER
FA	FIRE ALARM
FAA	FIRE ALARM ANNUNCIATOR
FACP	FIRE ALARM CONTROL PANEL
FBO	FURNISHED BY OTHERS
FC	FOOT CANDLES
FF	FLUSH FLOOR MOUNTED
FLA	FULL LOAD AMPERES
FLEX	FLEXIBLE
FPB	FAN POWERED BOX
FSD	FIRE/SMOKE DAMPER
FW	FLUSH WALL MOUNTED
FU	FUSE
GEN	GENERATOR
GFI	GROUND FAULT CIRCUIT INTERRUPTER
G,GND	GROUND
GRAP	GENERATOR REMOTE ANNUNCIATOR PANEL
GRC	GALVANIZED RIGID STEEL CONDUIT
HLO	HANDLE LOCK-ON(OFF)
HP	HORSEPOWER
HPF	HIGH POWER FACTOR
HTR	HEATER
HZ	HERTZ (CYCLES PER SECOND)
IES	ILLUMINATING ENGINEERING SOCIETY
IBC	INDIVIDUAL BRANCH CIRCUIT
ID	INSIDE DIAMETER
IG	ISOLATED GROUND
IMC	INTERMEDIATE METAL CONDUIT
KCMIL	THOUSAND CIRCULAR MILS
KN	KEYED NOTE
KO	KNOCK OUT
KW	KILOWATTS
KVA	KILOVOLT-AMPERES
LTG	LIGHTING
LCP	LIGHTING CONTROL PANEL
MAX	MAXIMUM
MCA	MINIMUM CIRCUIT AMPERES
MCB	MAIN CIRCUIT BREAKER
MFR	MANUFACTURER
MIN	MINIMUM
MISC	MISCELLANEOUS
MLO	MAIN LUGS ONLY
MO	MANUAL OPERATOR
MTD	MOUNTED
MTR	MOTOR
N	NEUTRAL (GROUNDED CONDUCTOR)
NC	NORMALLY CLOSED
NEC	NATIONAL ELECTRICAL CODE
-,NEG	NEGATIVE
NEMA	NATIONAL ELECTRICAL MFGR'S ASSOC.
NL	NIGHT LIGHT (UNSWITCHED)
NO	NORMALLY OPEN
NTS	NOT TO SCALE
NP	NAMEPLATE
OC	ON CENTER
OD	OUTSIDE DIAMETER
OFCI	OWNER FURNISHED CONTRACTOR INSTALLED
ODOI	OWNER FURNISHED, OWNER INSTALLED
OS	OCCUPANCY SENSOR
P	POLE
PB	PUSHBUTTON
PDZ	PRIMARY DAYLIGHT ZONE
PH,Ø	PHASE
PNL	PANEL
+,POS	POSITIVE
PRI	PRIMARY
REQD	REQUIRED
RNC	RIGID NON-METALLIC CONDUIT (PVC)
RS	RAPID START
RST	REMOTE STATION TRANSMITTER
SAD	SEE ARCHITECTURAL DRAWINGS
SDZ	SECONDARY DAYLIGHT ZONE
SEC	SECONDARY
SN	SHEET NOTE
SOL	SOLENOID
SPD	SURGE PROTECTION DEVICE
SPDT	SINGLE POLE DOUBLE THROW
SPST	SINGLE POLE SINGLE THROW
SUB	SUBSTATION
SWBD	SWITCHBOARD
SWGR	SWITCHGEAR
TB	TERMINAL BOARD
TDC	TIME DELAY CLOSING
TDO	TIME DELAY OPENING
TEL	TELEPHONE
TYP	TYPICAL
UF	UNDERFLOOR
UG	UNDERGROUND
UL	UNDERWRITERS LAB
UON	UNLESS OTHERWISE NOTED
UPS	UNINTERRUPTIBLE POWER SUPPLY
UTX	UTILITY TRANSFORMER
V	VOLTS
VA	VOLT-AMPERES
VFD	VARIABLE FREQUENCY DRIVE
W	WATT
W/	WITH
W/O	WITHOUT
WP	WEATHERPROOF
XFR	TRANSFORMER
XP	EXPLOSION PROOF
Z	ZONE
",IN	INCHES
',FT	FEET
Ø	PHASE
>	GREATER THAN
<	LESS THAN
>	GREATER THAN OR EQUAL TO

BASIS OF DESIGN

A. PROJECT DESCRIPTION: PEARSON FIELD IS AN EXISTING ONE-STORY EXISTING PILOT LOUNGE LOCATED AT 101 EAST RESERVE ST. VANCOUVER, WA. THIS PROJECT IS 2,694 SF AND CONSISTS OF AN AMMENITY SPACE, KITCHEN, AND OFFICES.

B. THE DESIGN INCLUDES THE FOLLOWING NOTABLE FEATURES, BUT IS NOT LIMITED TO THIS SCOPE. CONTRACTOR IS RESPONSIBLE FOR REVIEWING ALL CONTRACT DOCUMENTS AND COORDINATING WITH ALL DISCIPLINES.
   A. BRANCH CIRCUIT DISTRIBUTION INCLUDING ALL REQUIRED PANELBOARDS, CONDUIT, WIRING, AND DEVICES.
   B. LIGHTING SYSTEMS, INCLUDING CONTROLS AND DAYLIGHTING CONTROL.
   C. NEW HVAC AND PLUMBING SYSTEM.
   D. NEW FIRE ALARM SYSTEM.

C. CODES AND STANDARDS
   A. THE COMPLETE INSTALLATION SHALL CONFORM TO ALL APPLICABLE FEDERAL, STATE, AND LOCAL CODES, ORDINANCES, UTILITY COMPANY REQUIREMENTS AND REGULATIONS INCLUDING NECESSARY PERMITS AND INSPECTIONS REQUIRED BY THE GOVERNING AUTHORITIES.
      A. AMERICANS WITH DISABILITIES ACT, (ADA)
      B. NFPA 101: LIFE SAFETY CODE: 2023 EDITION
      C. NFPA 110: STANDARD FOR EMERGENCY AND STANDBY POWER SYSTEMS: 2023 EDITION
      D. WASHINGTON BUILDING CODES ENFORCED BY THE AUTHORITY HAVING JURISDICTION (AHJ):
         A. 2021 INTERNATIONAL BUILDING CODE (IBC) WITH STATE AND LOCAL AMENDMENTS.
         B. 2021 INTERNATIONAL MECHANICAL CODE (IMC) WITH STATE AND LOCAL AMENDMENTS.
         C. 2021 UNIFORM PLUMBING CODE (UPC) WITH STATE AND LOCAL AMENDMENTS.
         D. 2021 INTERNATIONAL FIRE CODE (IFC) WITH STATE AND LOCAL AMENDMENTS.
         E. 2021 NATIONAL FUEL GAS CODE (NFGC) NFPA 54, WAC 51-52
         F. 2023 NATIONAL ELECTRICAL CODE (NEC)
         G. 2021 WASHINGTON STATE ENERGY CODE (WAC 51-11, WSEC)

D. PROJECT PHASING
   a. DESIGN IS NOT BASED ON ANY SPECIAL CONSTRUCTION PROJECT PHASING OTHER THAN VARIOUS DESIGN PACKAGES. CONTRACTORS TO COORDINATE WORK FOR THE OVERALL PROJECT PHASING PER CONSTRUCTION SCHEDULE.

E. DEMOLITION
   a. EXISTING DEVICES TYPICALLY PROVIDED BY DIVISION 26 DURING NEW CONSTRUCTION SHALL BE SUBSTANTIALLY DEMOLISHED. INFRASTRUCTURE (POWER PANELS) SHALL REMAIN, BUT RECEPTACLES, LIGHTING, LIGHTING CONTROLS AND OTHER MISCELLANEOUS ITEMS IN THE PROJECT SCOPE SHALL GENERALLY BE COMPLETELY REMOVED UNLESS NOTED OTHERWISE. ALL ASSOCIATED BRANCH CIRCUITING SHALL BE DEMOLISHED BACK TO THE ORIGINATING BRANCH PANEL.

F. POWER SYSTEM DESIGN
   a. POWER SYSTEM DESCRIPTION
      - EXISTING SPACE INCLUDES (3) 208/120V, 3PH, 4W BRANCH PANELS THAT ARE FED FROM THE EXTERIOR UTILITY VIA A GUTTER. PROVIDE (1) NEW 208/120V, 3PH, 4W BRANCH PANEL FED FROM EXISTING BRANCH PANEL. ALL RECEPTACLES, LIGHTING, PLUMBING AND HVAC EQUIPMENT TO BE CIRCUITED TO NEW PANEL, EXCEPT WHERE REPLACING EXISTING EQUIPMENT (HVAC SPLIT SYSTEMS).
      - THERE IS EXPECTED TO BE ADEQUATE SPARE CAPACITY IN EXISTING BRANCH PANELS AND UTILITY EQUIPMENT TO ACCOMODATE THE NEW BRANCH CIRCUIT PANEL AND ASSOCIATED LOADS.
   b. EMERGENCY POWER - BATTERY BACKUP
      - EMERGENCY POWER TO BE PROVIDED TO SERVE EGRESS LIGHTING AND EXIT SIGNS BY BATTERY BACKUP IN LIGHTING FIXTURES.
   c. STANDBY POWER
      - STANDBY POWER IS NOT A PROJECT REQUIREMENT.

G. COMMERCIAL OFFICE DESIGN
   A. ASSUMED LOAD PER WORKSTATION 360 W
   B. FLOOR OUTLETS/ BOXES ARE TO BE INSTALLED PER DIMENSIONS SHOWN ON THE ARCHITECTURAL FLOOR PLANS
   C. GENERAL LIGHTING LOAD BY OCCUPANCY IN PER NEC TABLE 220-42(A):
      A. OCCUPANCY TYPE OFFICE, UNIT LOAD PER SF 1.3VA/SF
   D. MECHANICAL/PLUMBING
      a. PROVIDE POWER TO ALL DIVISION 22 AND DIVISION 23 EQUIPMENT/DEVICES REQUIRING POWER.
      b. IT SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR TO VERIFY POWER REQUIREMENTS WITH THE MECHANICAL AND PLUMBING CONTRACTOR WITH THE SUBMITTED AND APPROVED MECHANICAL AND PLUMBING EQUIPMENT/DEVICES PRIOR TO THE PURCHASE AND INSTALLATION OF MATERIALS, AND TO PROVIDE THE VERIFIED POWER REQUIREMENTS. IF CHANGES TO ELECTRICAL DESIGN ARE NECESSARY TO PROVIDE THE VERIFIED POWER REQUIREMENTS, COORDINATE WITH THE ENGINEER TO DETERMINE A RESOLUTION.
   E. MISCELLANEOUS POWER CONNECTIONS
      a. PROVIDE POWER AND ASSOCIATED COMPONENTS TO ALL NEW POWERED EQUIPMENT/DEVICES WITHIN PROJECT, EVEN IF NOT EXPLICITLY STATED IN THIS DRAWING SET, EXAMPLES INCLUDE:
         - FUSED DISCONNECTS FOR FAN COIL UNITS
         - POWER FOR MECHANICAL CONTROLS
         - POWER FOR SECURITY POWER SUPPLIES
         - POWER FOR FIRE ALARM SYSTEM
   F. CONTROLLED RECEPTACLES
      a. CONTROLLED RECEPTACLES ARE NOT REQUIRED FOR THE PROJECT PER WASHINGTON STATE ENERGY CODE C503.7.7 EXCEPTION (1) DUE TO ALTERATION AREA BEING SMALLER THAN 5,000 SQUARE FEET.

H. FIRE ALARM DESIGN
   A. FIRE ALARM SYSTEM IS DESIGN/BUILD BY THE FIRE ALARM SYSTEM VENDOR. DEVICES AND LAYOUT SHOWN ON THESE DRAWINGS ARE TO AID IN ARCHITECTURAL COORDINATION AND TO ESTABLISH A MINIMUM LEVEL FOR BIDDING PURPOSES. REFER TO SPECIFICATIONS FOR ADDITIONAL DESIGN CRITERIA.

7/16/25	60% OWNER REVIEW	
8/27/25	90% OWNER REVIEW	
9/12/25	ISSUE FOR PERMIT	
11/18/25	ISSUE FOR CONSTRUCTION	

ISSUE FOR CONSTRUCTION

FAA GRANT #3-53-0139-022-2026

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PEARSON FIELD
TERMINAL RENOVATION PROJECT
PEARSON FIELD
101 EAST RESERVE ST.
VANCOUVER, WA 98661

DRAWING TITLE:
ELECTRICAL LEGEND AND ABBREVIATIONS

DRAWN BY: Author
CHECKED BY: Checker

E0.01

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COPPER FEEDER SCHEDULE

FEEDER TAG	CONDUITS			CONDUCTORS PER SET		NOTES
	MET	SETS	RNC	PHASE/NEUTRAL	GROUND	
4000.4	3.50"	11	4.00"	(4) 500 KCMIL	500 KCMIL	-
4000.3	3.00"	11	4.00"	(3) 500 KCMIL	500 KCMIL	-
3500.4	3.50"	10	4.00"	(4) 500 KCMIL	500 KCMIL	-
3500.3	3.00"	10	4.00"	(3) 500 KCMIL	500 KCMIL	-
3000.4	3.50"	8	4.00"	(4) 500 KCMIL	400 KCMIL	-
3000.3	3.00"	8	4.00"	(3) 500 KCMIL	400 KCMIL	-
2500.4	3.50"	7	4.00"	(4) 500 KCMIL	350 KCMIL	-
2500.3	3.00"	7	4.00"	(3) 500 KCMIL	350 KCMIL	-
2000.4	3.00"	6	4.00"	(4) 400 KCMIL	250 KCMIL	-
2000.3	3.00"	6	4.00"	(3) 400 KCMIL	250 KCMIL	-
1600.4	3.00"	5	4.00"	(4) 400 KCMIL	#4/0	-
1600.3	3.00"	5	4.00"	(3) 400 KCMIL	#4/0	-
1200.4	3.00"	4	4.00"	(4) 350 KCMIL	#3/0	-
1200.3	3.00"	4	3.00"	(3) 350 KCMIL	#3/0	-
1000.4	3.00"	3	4.00"	(4) 400 KCMIL	#2/0	-
1000.3	3.00"	3	4.00"	(3) 400 KCMIL	#2/0	-
800.4	3.00"	3	3.00"	(4) 300 KCMIL	#1/0	-
800.3	2.50"	3	3.00"	(3) 300 KCMIL	#1/0	-
700.4	3.50"	2	4.00"	(4) 500 KCMIL	#1/0	-
700.3	3.00"	2	4.00"	(3) 500 KCMIL	#1/0	-
600.4	3.00"	2	4.00"	(4) 350 KCMIL	#1	-
600.3	2.50"	2	3.00"	(3) 350 KCMIL	#1	-
500.4	2.50"	2	3.00"	(4) 250 KCMIL	#2	-
500.3	2.50"	2	2.50"	(3) 250 KCMIL	#2	-
450.4	2.50"	2	3.00"	(4) #4/0	#2	-
450.3	2.00"	2	2.50"	(3) #4/0	#2	-
400.4	2.00"	2	2.50"	(4) #3/0	#2	-
400.3	2.00"	2	2.50"	(3) #3/0	#2	-
350.4	3.50"	1	4.00"	(4) 500 KCMIL	#2	-
350.3	3.50"	1	4.00"	(3) 500 KCMIL	#2	-
300.4	3.00"	1	3.00"	(4) 350 KCMIL	#4	-
300.3	2.50"	1	3.00"	(3) 350 KCMIL	#4	-
250.4	2.50"	1	3.00"	(4) 250 KCMIL	#4	-
250.3	2.50"	1	3.00"	(3) 250 KCMIL	#4	-
225.4	2.50"	1	3.00"	(4) #4/0	#4	-
225.3	2.00"	1	2.50"	(3) #4/0	#4	-
200.4	2.00"	1	2.50"	(4) #3/0	#6	-
200.3	2.00"	1	2.50"	(3) #3/0	#6	-
175.4	2.00"	1	2.50"	(4) #2/0	#6	-
175.3	1.50"	1	2.00"	(3) #2/0	#6	-
150.4	2.00"	1	2.00"	(4) #1/0	#6	-
150.3	1.50"	1	2.00"	(3) #1/0	#6	-
125.4	1.50"	1	1.50"	(4) #1	#6	-
125.3	1.25"	1	1.50"	(3) #1	#6	-
110.4	1.25"	1	1.50"	(4) #2	#6	-
110.3	1.25"	1	1.50"	(3) #2	#6	-
100.4	1.25"	1	1.50"	(4) #2	#8	-
100.3	1.25"	1	1.50"	(3) #2	#8	-
90.4	1.25"	1	1.50"	(4) #2	#8	-
90.3	1.25"	1	1.50"	(3) #2	#8	-
80.4	1.25"	1	1.50"	(4) #4	#8	-
80.3	1.00"	1	1.50"	(3) #4	#8	-
70.4	1.25"	1	1.50"	(4) #4	#8	-
70.3	1.00"	1	1.50"	(3) #4	#8	-
60.4	1.00"	1	1.00"	(4) #6	#10	-
60.3	0.75"	1	1.00"	(3) #6	#10	-
50.4	1.00"	1	1.00"	(4) #6	#10	-
50.3	0.75"	1	1.00"	(3) #6	#10	-
40.4	0.75"	1	1.00"	(4) #8	#10	-
40.3	0.75"	1	1.00"	(3) #8	#10	-
30.4	0.75"	1	1.00"	(4) #10	#10	-
30.3	0.75"	1	1.00"	(3) #10	#10	-
20.4	0.75"	1	1.00"	(4) #12	#12	-
20.3	0.75"	1	1.00"	(3) #12	#12	-
---.-K						1
XFR						2
SCHD						3

GENERAL NOTES:

A. CONDUCTORS AND CONDUITS SHOWN IN THIS SCHEDULE ARE BASED ON COPPER CONDUCTORS WITH THHN/THWN INSULATION.
B. THIS SCHEDULE SHALL BE USED ON ALL FEEDERS SERVING LOADS WHERE THE CIRCUIT BREAKER SIZE MATCHES THE AMPACITY OF ITS FEEDER. USE THE "MOTOR CIRCUIT SCHEDULE" FOR LOADS, SUCH AS MOTORS, PUMPS, FANS, CHILLERS, ETC., WHERE THE CIRCUIT BREAKER SIZE IS LARGER THAN THE AMPACITY OF ITS FEEDER.
C. PROVIDE GROUND WIRE NOTED ABOVE IN ALL FEEDERS AND BRANCH CIRCUITS. WHERE MULTIPLE CONDUITS ARE INDICATED PROVIDE NOTED GROUND WIRE IN EACH CONDUIT.
D. NOT ALL FEEDERS ARE NECESSARILY USED ON THIS PROJECT.
E. NOMINAL AMPACITIES GREATER THAN 100 AMPS ARE FOR 75 DEG. C TERMINALS.
F. "MET"= EMT, IMC, GRC, RAC, OR PVC COATED GRC TYPE CONDUITS. "RNC"= PVC 40, PVC 80 OR FIBERGLASS TYPE CONDUITS ROUTED UNDERGROUND. REFER TO SIZING ON DRAWINGS IF "RNC" CONDUITS ARE ROUTED ABOVEGROUND. CONDUIT SIZES NOTED ON SINGLE-LINE DIAGRAM OR ON PLANS SUPERSEDE SIZES NOTED ABOVE IF LARGER
G. NEUTRAL CONDUCTORS THAT CARRY UNBALANCED CURRENT ARE CONSIDERED NON-CURRENT CARRYING CONDUCTORS.

KEYED NOTES:

1. OVERSIZED (173% MIN.) NEUTRAL FOR FEEDERS CONNECTED TO A K-4 OR HIGHER RATED TRANSFORMER.
2. REFER TO TRANSFORMER SCHEDULE FOR STANDARD PRIMARY AND SECONDARY FEEDER SIZES.
3. REFER TO MCC OR PANEL SCHEDULES FOR FEEDER SIZES TO EQUIPMENT NOTED WITH THIS TAG.

ARCHITECTURAL EQUIP. ABBREVIATIONS & MOUNTING HEIGHTS

MICROWAVE	**MW**	+46" AFF, SAD
COPIER/ PRINTER	**CP**	+20" AFF
VENDING MACHINE	**VM**	+42" AFF
REFRIGERATOR	**RF**	+24" AFF
DISHWASHER	**DW**	+20" AFF
TELEVISION	**TV**	+60" AFF, SAD

NOTES:

1. HEIGHTS SHOWN ARE TYPICAL TO TOP OF BOX, UNLESS OTHERWISE NOTED.
2. MOUNTING HEIGHTS SHOWN ON ARCHITECTURAL ELEVATIONS SHALL GOVERN OVER THOSE NOTED ABOVE. CONTRACTOR SHALL ALWAYS REFER TO ARCHITECTURAL DRAWINGS PRIOR TO INSTALLING J-BOXES AND BACKBOXES. INFORM ENGINEER AND ARCHITECT OF CONFLICTS.

BRANCH CIRCUIT SCHEDULE

CIRCUIT TAG	CONDUITS			CONDUCTORS PER SET		NOTES
	MET	SETS	RNC	PHASE/NEUTRAL	GROUND	
60.2N	0.75"	1	1.00"	(2) #6, (1) #6N	#10	_
60.2	0.75"	1	1.00"	(2) #6	#10	_
60.1	0.75"	1	1.00"	(1) #6, (1) #6N	#10	_
50.2N	0.75"	1	1.00"	(2) #6, (1) #6N	#10	_
50.2	0.75"	1	1.00"	(2) #6	#10	_
50.1	0.75"	1	1.00"	(1) #6, (1) #6N	#10	_
40.2N	0.75"	1	1.00"	(2) #8, (1) #8N	#10	_
40.2	0.75"	1	1.00"	(2) #8	#10	_
40.1	0.75"	1	1.00"	(1) #8, (1) #8N	#10	_
30.2N	0.75"	1	1.00"	(2) #10, (1) #10N	#10	_
30.2	0.75"	1	1.00"	(2) #10	#10	_
30.1	0.75"	1	1.00"	(1) #10, (1) #10N	#10	_
20.2N	0.50"	1	1.00"	(2) #12, (1) #12N	#12	1,2
20.2	0.50"	1	1.00"	(2) #12	#12	1,2
20.1	0.50"	1	1.00"	(1) #12, (1) #12N	#12	1,2

GENERAL NOTES:

A. CONDUCTORS AND CONDUITS SHOWN IN THIS SCHEDULE ARE BASED ON COPPER CONDUCTORS WITH THHN/THWN INSULATION.
B. THIS SCHEDULE SHALL BE USED FOR ALL BRANCH CIRCUITS WHERE THE CIRCUIT BREAKER SIZE MATCHES THE BRANCH CIRCUIT AMPACITY.
C. NOT ALL BRANCH CIRCUITS SHOWN ABOVE ARE NECESSARILY USED ON THIS PROJECT.
D. "MET"= EMT, IMC, GRC, RAC, OR PVC COATED GRC TYPE CONDUITS. "RNC"= PVC 40, PVC 80 OR FIBERGLASS TYPE CONDUITS ROUTED UNDERGROUND. CONDUIT SIZES NOTED ON SINGLE LINE DIAGRAM OR ON PLANS SUPERSEDE SIZES NOTED ABOVE IF LARGER.
E. UPSIZE WIRING AS REQUIRED TO MEET MINIMUM VOLTAGE DROP REQUIREMENTS INDICATED IN SPECIFICATIONS AND UPSIZE GROUND CONDUCTOR PROPORTIONATELY .
F. ALL HOMERUNS SHALL USE 0.75" CONDUIT SIZE MINIMUM.

KEYED NOTES:

1. THESE BRANCH CIRCUITS TAGS ARE TYPICALLY NOT SHOWN ON PLANS FOR CLARITY REASONS. CONTRACTOR SHALL USE THIS INFORMATION AS IT APPLIES FOR ALL CONDUITS CONTAINING ONE OR MORE 20A/1P CIRCUITS.
2. CONTRACTOR MAY COMBINE 20A 1 AND 2-POLE CIRCUITS, UP TO A MAXIMUM OF (3) PHASE CONDUCTORS, IN ONE CONDUIT. ALL 3-PHASE AND CIRCUITS LARGER THAN 20A SHALL BE IN DEDICATED CONDUITS, UON. PROVIDE DEDICATED NEUTRALS FOR EACH 1-POLE CIRCUIT.

VOLTAGE DROP TABLE

		MAXIMUM ALLOWED RUN LENGTH (FT)				
VOLT	AMP	#12	#10	#8	#6	#4
120	2	500	800	1200	2000	3250
	4	250	400	600	1000	1625
	6	175	250	400	650	1100
	8	125	200	325	500	800
	10	100	150	250	400	650
	12	85	125	200	350	550
	14	75	110	175	300	450
	16	60	100	150	250	400
277	2	1100	1800	2750		
	4	550	900	1375		
	6	350	600	950		
	8	275	450	700		
	10	225	350	550		
	12	175	300	475		
	14	150	250	400		
	16	140	225	360		

NOTES:

1. THIS SCHEDULE APPLIES TO ALL BRANCH CIRCUITS. CONTRACTOR SHALL PROVIDE UPSIZED CONDUCTORS AND CONDUIT/ RACEWAYS AS REQUIRED FOR EACH SITUATION.
2. THIS SCHEDULE IS FOR 3% VOLTAGE DROP USING COPPER CONDUCTORS. ALUMINUM CONDUCTORS ARE NOT ALLOWED TO SERVE BRANCH CIRCUITS.
3. USE 12-AMPS FOR ALL CIRCUITS SERVING ONE OR MORE RECEPTACLES, UNLESS HIGHER AMPACITY IS APPROPRIATE OR REQUIRED. USE FULL LOAD AMPS (FLA) OF EQUIPMENT SERVED X 125% FOR ALL OTHER CIRCUITS THAT SERVE A DEDICATED LOAD WITH NO PLANS FOR ADDING FUTURE EQUIPMENT OR A RECEPTACLE TO THAT CIRCUIT.
4. WHENEVER BRANCH CIRCUIT CONDUCTORS ARE UPSIZED THE ASSOCIATED GROUND CONDUCTOR SHALL ALSO BE UPSIZED, PER NEC 250.122.

POWER NOTES

A. FLOOR PLANS ARE DIAGRAMMATIC. COORDINATE EXACT LOCATIONS WITH ARCHITECTURAL DRAWINGS AND FIELD DETERMINE EXACT CONDUIT, PULL BOX AND ROUTING REQUIREMENTS.
B. COORDINATE WITH ARCHITECTURAL FLOOR PLANS, INTERIOR ELEVATIONS AND DETAIL DRAWINGS PRIOR TO ROUGH-IN OF DEVICES. INFORM ENGINEER OF CONFLICTS.
C. CONFIRM CEILING TYPES WITH ARCHITECT IN ALL SPACES AND USE THE APPROPRIATE WIRING METHOD FOR EACH TYPE. DO NOT LOCATE ANY JUNCTION BOXES ON HARD-LID CEILINGS; ALL WIRING MUST BE ACCESSIBLE THROUGH LUMINAIRE ONLY IN DAISY-CHAIN METHOD. JUNCTION BOXES MAY BE LOCATED ABOVE ACCESS DOORS IF FEASIBLE. ENSURE ALL JUNCTION BOXES ARE ACCESSIBLE AFTER OTHER TRADES' WORK IS COMPLETED.
D. CIRCUIT SIZES ARE NOT SHOWN ON THE PLANS. USE CIRCUIT SIZES INDICATED IN NOTES OR RESPECTIVE SCHEDULES.
E. REFER TO MECHANICAL AND PLUMBING EQUIPMENT - ELECTRICAL CONNECTION SCHEDULE FOR MECHANICAL EQUIPMENT CONNECTION REQUIREMENTS.
F. COORDINATE EXACT MECHANICAL EQUIPMENT LOCATIONS AND REQUIREMENTS WITH MECHANICAL AND CONTROLS CONTRACTORS PRIOR TO ROUGH-IN.
G. PROVIDE HOUSEKEEPING PADS FOR ALL FLOOR MOUNTED ELECTRICAL EQUIPMENT. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
H. BOXES SHALL BE IN SEPARATE STUD SPACES FROM BOXES SERVING OTHER ROOMS WHERE POSSIBLE TO MINIMIZE SOUND TRANSFER.
I. PROVIDE SPECIAL RECEPTACLES THAT MATCH CORD AND CAP PROVIDED WITH EQUIPMENT, UON. USE ADJACENT NEMA CONFIGURATION NUMBER, IF ONE IS SHOWN.
J. INSTALL NEW RACEWAY AND CONDUCTORS CONCEALED; CUT AND PATCH EXISTING WALLS TO ACCOMMODATE NEW RACEWAY INSTALLATION. INSTALL CONDUIT 90 DEG TO BUILDING LINES.
K. THE EXISTING BUILDING INCLUDING PORTIONS OF THE RENOVATED AREA SHALL REMAIN IN SERVICE DURING THE CONSTRUCTION PHASE OF THIS PROJECT. ANY MODIFICATIONS TO THE EXISTING ELECTRICAL SYSTEMS THAT MAY REQUIRE THE TEMPORARY INTERRUPTION OF EXISTING SERVICES SHALL BE COMPLETED AFTER NORMAL WORKING HOURS. PRE-SCHEDULE ANY SERVICE INTERRUPTIONS WITH THE OWNER PRIOR TO STARTING ANY WORK.
L. UTILITY OUTAGES: NOTIFY AND OBTAIN WRITTEN APPROVAL FROM FACILITY NOT LESS THAN TEN (10) WORKING DAYS PRIOR TO A REQUIRED UTILITY OUTAGE. LOCK-OUT AND RED-TAG THE APPROPRIATE EQUIPMENT. TAG SHALL INCLUDE OUTAGE DURATION AND CONTACT INFORMATION.
M. EXISTING CONDITIONS ARE BASED ON AVAILABLE AS-BUILT DRAWINGS AND FIELD INFORMATION. VERIFY ALL EXISTING CONDITIONS PRIOR TO CONSTRUCTION.
N. WHERE NOTED AS OWNER-SUPPLIED ON DRAWINGS, INSTALL AND CONNECT EQUIPMENT PER MANUFACTURER'S REQUIREMENTS. INSPECT AND TEST ALL EQUIPMENT AND INFORM OWNER OF ANY DEFECTS PRIOR TO INSTALLATION. INSTALLED EQUIPMENT IS ASSUMED TO BE IN GOOD WORKING CONDITION.
O. PROVIDE A METAL, LOCKABLE, WEATHERPROOF WHILE-IN-USE COVER FOR ALL EXTERIOR RECEPTACLES, UON.
P. CONTROLLED RECEPTACLES SHALL BE PROVIDED IN QUANTITIES AND LOCATIONS AS REQUIRED BY WASHINGTON ENERGY CODE. DUE TO THE AREA OF THE FLOOR PLAN BEING UNDER 5,000 SQUARE FEET, THE PROJECT CAN USE WAC 51-11C-50300 SECTION C503.7.7 EXCEPTION 1 AND DOES NOT REQUIRE CONTROLLED RECEPTACLES.

DEMO NOTES

A. EXISTING WALLS AND CEILINGS TO BE DEMOLISHED ARE SHOWN DASHED. REFER TO ARCHITECTURAL DRAWINGS FOR FULL EXTENT OF DEMOLITION.
B. REFER TO SPECIFICATIONS FOR ADDITIONAL DEMOLITION SCOPE OF WORK.
C. REMOVE ALL DEVICES AND WIRING IN PORTIONS OF BUILDING BEING DEMOLISHED. MAINTAIN CONTINUITY TO ALL DEVICES THAT ARE EXISTING TO REMAIN.
D. EXISTING CONDUIT AND WIRING MAY BE REUSED IF IN GOOD CONDITION.
E. JUNCTION BOXES SHALL ONLY BE PROVIDED ON WALLS OR CEILINGS WHERE REQUIRED FOR DEVICE MOUNTING.
F. REMOVE ALL EXISTING BRANCH CIRCUIT CONDUCTORS AND CONDUITS ASSOCIATED WITH REMOVED ELECTRICAL EQUIPMENT AND DEVICES BACK TO THE EXISTING HOMERUN FROM WHICH THEY ARE FED OR THE NEAREST ACTIVE DEVICE THAT IS TO REMAIN.
G. VERIFY CIRCUITS WITH TRACING DEVICE AND LABEL CIRCUITS AVAILABLE AT EACH JUNCTION BOX. MODIFY DRAWINGS AS REQUIRED TO DOCUMENT ACTUAL CIRCUITING.
H. DO NOT REMOVE ANY CONDUITS SERVING EXISTING TO REMAIN ITEMS.
I. DO NOT REMOVE ANY TELECOM INFRASTRUCTURE, I.E. CONDUITS CONNECTING TELECOM CLOSETS, CABLE TRAYS, BRIDAL RINGS IN AREAS THAT WILL BE ABOVE SUSPENDED CEILINGS.
J. ALL REMOVED ELECTRICAL MATERIAL INCLUDING WIRING, RACEWAYS, OUTLETS, DEVICES, SUPPORTS SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED FROM THE JOB SITE, UNLESS OTHERWISE DIRECTED BY OWNER.
K. DAMAGE TO OTHER TRADES' WORK AS A RESULT OF THIS WORK IS TO BE PROMPTLY REPAIRED AT NO EXPENSE TO THE OWNER AND TO THE COMPLETE SATISFACTION OF THE OWNER.
L. VISIT THE JOB SITE PRIOR TO SUBMISSION OF BID AND FIELD VERIFY ALL EXISTING CONDITIONS AND THE EXTENT OF THE DEMOLITION WORK. ALL ASSOCIATED DEMOLITION COSTS SHALL BE INCLUDED IN THE BID PRICE. NO EXTRA PAYMENT WILL BE ALLOWED FOR WORK REQUIRED BECAUSE OF DISCERNIBLE CONDITIONS, WHETHER OR NOT SPECIFICALLY SHOWN ON THESE DRAWINGS.
M. THE EXISTING BUILDING INCLUDING PORTIONS OF THE RENOVATED AREA SHALL REMAIN IN SERVICE DURING THE CONSTRUCTION PHASE OF THIS PROJECT. ANY MODIFICATIONS TO THE EXISTING ELECTRICAL SYSTEMS THAT MAY REQUIRE THE TEMPORARY INTERRUPTION OF EXISTING SERVICES SHALL BE COMPLETED AFTER NORMAL WORKING HOURS. PRE-SCHEDULE ANY SERVICE INTERRUPTIONS WITH THE OWNER PRIOR TO STARTING ANY WORK.
N. UTILITY OUTAGES: NOTIFY AND OBTAIN WRITTEN APPROVAL FROM FACILITY NOT LESS THAN TEN (10) WORKING DAYS PRIOR TO A REQUIRED UTILITY OUTAGE. LOCK-OUT AND RED-TAG THE APPROPRIATE EQUIPMENT. TAG SHALL INCLUDE OUTAGE DURATION AND CONTACT INFORMATION.
O. EXISTING CONDITIONS ARE BASED ON AVAILABLE FIELD INFORMATION. VERIFY ALL EXISTING CONDITIONS PRIOR TO CONSTRUCTION.
P. WHERE IT IS UNFEASIBLE TO REMOVE CONDUITS (SUCH AS BELOW CONCRETE SLAB, EMBEDDED IN CONCRETE SLAB, OR CONCEALED IN INACCESSIBLE LOCATION), REMOVE CONDUCTORS, CUT, CAP, AND ABANDON CONDUIT IN PLACE AT ENTRY INTO INACCESSIBLE LOCATIONS.
Q. REPROGRAM EXISTING LIGHTING CONTROL SYSTEM AS REQUIRED TO REMOVE ADDRESSIBLE CONTROL ITEMS AND LUMINAIRES FROM SYSTEM.

7/18/25	60% OWNER REVIEW	
8/27/25	90% OWNER REVIEW	
9/12/25	ISSUE FOR PERMIT	
11/18/25	ISSUE FOR CONSTRUCTION	

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Livermore A&E
Job No: 223073.00

CITY OF Vancouver WASHINGTON

ISSUE FOR CONSTRUCTION

FAA GRANT #3-53-0139-022-2026

PEARSON FIELD
TERMINAL RENOVATION PROJECT
PEARSON FIELD
101 EAST RESERVE ST.
VANCOUVER, WA 98661

DRAWING TITLE:
CALCULATION TABLES AND NOTES

DRAWN BY: Author
CHECKED BY: Checker

E0.02

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MECHANICAL AND PLUMBING EQUIPMENT - ELECTRICAL CONNECTION SCHEDULE

TAG			LOAD							CIRCUITING INFORMATION					DISCONNECT		STARTER		LOCATION	
NAME	#	DESCRIPTION	HP	KVA	FLA	LOAD CLASS	VOLTS	Ø	ALT POWER	PANEL	CIRCUIT	POLES	OCP	FEEDER	DIV.	TYPE	DIV	TYPE	LEVEL	NOTES
CP	1	DOMESTIC RECIRCULATION PUMP	0.1 hp	0.04 kVA	0.65 A	N	120 V	1	No	LC4	17	1	20 A	20.1	DIV. 26	SWITCH	DIV. 22	INTEGRAL	T.O. FINISH FLOOR	
ERV	1.1	ENERGY RECOVERY VENTILATOR	0.5 hp	1.31 kVA	6.30 A	N	208 V	1	No	LC4	1,3	2	20 A	20.2	DIV. 26	FUSED	DIV. 23	INTEGRAL	T.O. FINISH FLOOR	
EUH	1.1	ELECTRIC UNIT HEATER	0 hp	1.5 kVA	12.50 A	N	120 V	1	No	LC4	13	1	20 A	20.1	DIV. 26	INTEGRAL	DIV. 23	INTEGRAL	T.O. FINISH FLOOR	
EWH	1	DOMESTIC WATER HEATER	0 hp	11 kVA	30.56 A	N	208 V	3	No	LC2	32,34,36	3	40 A	40.3	DIV. 26	FUSED	NA	NA	T.O. FINISH FLOOR	
FCU	1.1	SPLIT SYSTEM HEAT PUMP FAN COIL	0.5 hp	1.35 kVA	6.50 A	C	208 V	1	No	LC4	5,7	2	15 A	20.2	DIV. 26	FUSED	DIV. 23	INTEGRAL	T.O. FINISH FLOOR	
FCU	1.2	SPLIT SYSTEM HEAT PUMP FAN COIL	0.5 hp	0.4 kVA	1.90 A	C	208 V	1	No	LC4	9,11	2	15 A	20.2	DIV. 26	FUSED	DIV. 23	INTEGRAL	T.O. FINISH FLOOR	
FCU	1.3	SPLIT SYSTEM HEAT PUMP FAN COIL	0.5 hp	0.4 kVA	1.90 A	C	208 V	1	No	LC4	9,11	2	15 A	20.2	DIV. 26	FUSED	DIV. 23	INTEGRAL	T.O. FINISH FLOOR	
FCU	1.4	SPLIT SYSTEM HEAT PUMP FAN COIL	0.5 hp	0.4 kVA	1.90 A	C	208 V	1	No	LC4	9,11	2	15 A	20.2	DIV. 26	FUSED	DIV. 23	INTEGRAL	T.O. FINISH FLOOR	
HP	1.1	HEAT PUMP OUTDOOR UNIT	0 hp	3.33 kVA	16.00 A	C	208 V	1	No	LC1	31,33	2	20 A	20.2	DIV. 26	FUSED	DIV. 23	INTEGRAL	T.O. FINISH FLOOR	
HP	1.2	HEAT PUMP OUTDOOR UNIT	0 hp	4.99 kVA	24.00 A	C	208 V	1	No	LC1	32,34	2	30 A	30.2	DIV. 26	FUSED	DIV. 23	INTEGRAL	T.O. FINISH FLOOR	

SCHEDULE REMARKS:

A. ALL LISTED ITEMS ARE PROVIDED BY DIVISION 22 AND/OR DIVISION 23. PROVIDE POWER TO ITEMS AS INDICATED ON PLANS AND IN THE SCHEDULE. REFER TO MECHANICAL AND PLUMBING SCHEDULES FOR ADDITIONAL INFORMATION.

B. COORDINATE WITH DIVISION 22 AND 23 PRIOR TO INSTALLATION AND VERIFY OVERCURRENT PROTECTION AND FEEDER REQUIREMENTS WITH SUBMITTED MANUFACTURER DATA. INFORM ENGINEER OF CONFLICT(S).

C. WHERE HP IS SHOWN AS "0", REFER TO FLA AND KVA FOR ELECTRICAL LOAD.

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8/27/25 90% OWNER REVIEW
9/12/25 ISSUE FOR PERMIT
11/18/25 ISSUE FOR CONSTRUCTION

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DRAWING TITLE:
MECHANICAL & PLUMBING EQUIPMENT CONNECTION SCHEDULE
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LIGHTING COMPLIANCE SUMMARY

2021 WSEC Compliance Forms for Commercial Buildings including Group R2, R3 & R4 over 3 stories and all R1 — Administered by: ©2025 NEEA. All rights reserved

Project & Applicant Information	**Project Title**	Pearson Airport FIeld - 2021 WSEC	For Building Department Use:	**Date: Sep 10, 2025**
	Project Address	101 East Reserve St. Vancouver, WA 98661		
	Applicant Name	Max Hoffman		
	Applicant Phone	512-651-2435		
	Applicant Email	mhoffman@glumac.com		

For questions about this report, contact WSEC Commercial Technical Support at 360-539-5300 or via email at com.techsupport@waenergycodes.com

General Occupancy	All Commercial		**General Building Use Type**		Office, Other	**Building Cond. Floor Area**	2,568
General Project Types	Alteration	**New Building or Addition Lighting Scope**		**Alteration Lighting Scope**	Interior Lighting Exterior Lighting	**Project Cond. Floor Area**	2,568
						Floors Above Grade	1
						Compliance Method	General Prescriptive
Lighting Project Description							

Lighting Compliance Scope and Method	**Project Type**	**Interior / Exterior (Interior includes both interior & parking)**	**Luminaire Replacement Scope**	**Compliance Method**	**LPA Calculation Adjustment**	**Compliance Verification**
	Alteration	Interior Lighting	20% or more replaced	Space by space	No Calculation Adjustments allowed	**COMPLIES**
	Alteration	Exterior Lighting	20% or more replaced		Not applicable to exterior	**COMPLIES**
Additional Energy Efficiency (AEC) Measures Included	No lighting or electrical additional energy efficiency measures included in project		**Load Management (LDM) Measures Included**		No lighting or electrical load management measures included in project	

Project Title	**Pearson Airport FIeld - 2021 WSEC**	**Date**	**Sep 10, 2025**
Lighting Power Calculation	**ALTERATION - INTERIOR LIGHTING (20% or more replaced)**	**Compliance Verification**	**COMPLIES**
Compliance Method	**Space by space**	**LPA Calculation Adjustment**	**none**

Interior Lighting Power Allowance - Space by Space

General Space Type	Specific Space Type	Gross Interior Area (SF)	LPA (Watts/SF)	Total Watts Allowed (SF x LPA x 1)	Total Proposed Watts (LPD > Display LPD)	Compliance Status
Classroom/lecture/training	General	755	0.71	536		
Corridors	General	388	0.41	159		
Food preparation		163	1.09	180		
Lobby	General	118	0.84	99		
Office	Enclosed ≤ 250 sf	498	0.74	369		
Office	Open plan	315	0.61	192		
Restroom	General	170	0.63	107		
Storage room	Less than 50 sf	44	0.51	22		
			Proposed Total LPD		**1,434**	
	Totals			**1,664**	**1,434**	**COMPLIES**

Proposed Lighting Power Density

Fixture Type	Fixture ID	Quantity of Fixtures (#F)	Watts or Wattage Limit per Fixture (WpF)	Total Linear Feet (LF)	Watts per Linear Foot (WpLF)	Total Watts Proposed (#F x WpF) or (LF x WpLF)
Individual Fixtures						
Troffer	RA1 (RA1E)	35	28			984
Troffer	RB1 (RB1E)	2	20			39
Recessed downlight	DA1	4	12			48
Recessed downlight	DA2	2	12			24
Wall-mounted	WA1	2	18			36
Linear Fixture per LF						
LED strip	UA1			19	16	304
					Proposed Total LPD	**1,434**

Project Title	**Pearson Airport FIeld - 2021 WSEC**	**Date**	**Sep 10, 2025**
Proposed Fixtures Details	**ALTERATION - INTERIOR LIGHTING (20% or more replaced)**		

Fixture Type/Application	Fixture ID	Location in Documents	Lamp Type	New or Existing-to-Remain
Individual Fixtures				
Troffer	RA1 (RA1E)	EL2.01	LED	New
	Fixture Description:			Are these fixtures located within a daylight zone?: Yes, controls provided
	Daylight zone location(s): Sidelit daylight zones (primary and/or secondary)			Do these fixtures require specific application lighting controls?: None required
Troffer	RB1 (RB1E)	EL2.01	LED	New
	Fixture Description:			Are these fixtures located within a daylight zone?: No
	Do these fixtures require specific application lighting controls?: None required			
Recessed downlight	DA1	EL2.01	LED	New
	Fixture Description:			Are these fixtures located within a daylight zone?: No
	Do these fixtures require specific application lighting controls?: None required			
Recessed downlight	DA2	EL2.01	LED	New
	Fixture Description:			Are these fixtures located within a daylight zone?: No
	Do these fixtures require specific application lighting controls?: None required			
Wall-mounted	WA1	EL2.01	LED	New
	Fixture Description:			Are these fixtures located within a daylight zone?: No
	Do these fixtures require specific application lighting controls?: None required			
Linear Fixture per LF				
LED strip	UA1	EL2.01	LED	New
	Fixture Description:			Are these fixtures located within a daylight zone?: No
	Do these fixtures require specific application lighting controls?: Supplemental task lighting, occupancy or time switch			

Project Title	**Pearson Airport FIeld - 2021 WSEC**	**Date**	**Sep 10, 2025**
Lighting Power Calculation	**ALTERATION - EXTERIOR LIGHTING (20% or more replaced)**	**Compliance Verification**	**COMPLIES**
Exterior Lighting Zone	**ZONE 3**	**Base Site Allowance**	**400**

Exterior Lighting Power Allowance

Exterior Surface	Surface Sub-Type	Surface Area (SF)	LPA (Watts/SF)	Linear Feet (LF)	LPA (Watts/LF)	Total Watts Allowed (LPA x SF) or (LPA x LF)	Total Proposed Watts	Compliance Status
Building entrances and exits	Entry canopies	707	0.18			127		
					Base Site Allowance	400		
					Totals	527	50	COMPLIES

Proposed Exterior Lighting Power Density

Fixture Type	Fixture ID	Exterior Surface Type	Quantity of Fixtures (#F)	Watts or Wattage Limit per Fixture (WpF)	Total Linear Feet (LF)	Watts per Linear Foot (WpLF)	Total Watts Proposed (#F x WpF) or (LF x WpLF)
Individual Fixtures							
Canopy	SA1	Building entrances and exits - Entry canopies	10	4			40
Wall-mounted	WB1E	Building entrances and exits - Entry canopies	1	10			10
						Proposed Total LPD	**50**

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CITY OF Vancouver WASHINGTON

PEARSON FIELD
TERMINAL RENOVATION PROJECT
PEARSON FIELD
101 EAST RESERVE ST.
VANCOUVER, WA 98661

DRAWING TITLE:
ENERGY CHECKLIST

DRAWN BY: Author
CHECKED BY: Checker

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FAA GRANT #3-53-0139-022-2026

Lighting, Motor and Electrical Requirements List, pg 1 of 13

2021 WSEC Requirements for Commercial Buildings including Group R2, R3 & R4 over 3 stories & all R1 — Administered by ©2025 NEEA. All rights reserved
The following information is necessary to check a permit application for compliance with the lighting systems, motors and electrical system requirements in the Washington State Energy Code, Commercial Provisions.
For questions about this report, contact WSEC Commercial Technical Support at 360-539-5300 or via email at com.techsupport@waenergycodes.com

Project:
Pearson Airport Field - 2021 WSEC
101 East Reserve St.
Vancouver, WA 98661

Date: 2025-09-10

Applies	Code Section	Component	Compliance Information Required In Permit Documentation	Location in Documents	Building Department Notes
LIGHTING SCOPE					
NA	C103.1	Construction documents - General	For a shell & core or tenant space (first build-out) project, indicate if there is no lighting scope included in the project.		
NA	C103.1	Construction documents - General	For an alteration project, indicate if there is no lighting scope included in the project.		
NA	C405.1	Lighting in sleeping units	Indicate general compliance path for permanently installed luminaires in sleeping units - vacancy controls & luminaire efficacy; or lighting power allowance.		
INTERIOR LIGHTING CONTROLS					
YES	C405.2	Interior lighting controls, general	For all interior lighting systems, indicate lighting control method (general lighting controls requirements or luminaire level lighting controls) on plans for all spaces and lighting zone(s) served; indicate exceptions applied to eligible spaces and light	EL0.01	
YES	C405.2.3	Manual controls	Indicate on plans the method of manual lighting control, location of manual control device and the area or specific application it serves.	EL2.01	
NA	C405.2.4 C405.2.4.1	Manual interior light reduction controls	For general lighting not controlled by occupancy sensors, indicate on plans which method of manual 50% lighting load reduction is provided, or indicate applicable exception.		
YES	C405.2.1 C405.2.2	Method of automatic shut-off control	Indicate on plans the method of automatic shut-off control during unoccupied periods (occupancy sensor or time switch) for all lighting zones.	EL2.01, EL0.01	
YES	C405.2.1	Occupant sensor controls	Indicate on plans all luminaires that are controlled by occupant sensor controls; indicate controls are configured to turn luminaires 100% off when the space is unoccupied	EL2.01, EL0.01	
YES	C405.2.1 C405.2.1.1	Occupant sensor controls	Indicate if occupant sensor controls are configured to be manual on or automatic on to not more than 50% power; indicate spaces eligible for exception that allows automatic on to 100% power.	EL0.01	
NA	C405.2.1.2	Occupant sensor controls - warehouse storage areas & library stacks	Indicate each aisleway within a warehouse or library stack space designated as a separate zone that is independently controlled		

Lighting, Motor and Electrical Requirements List, pg 2 of 13

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NA			Indicate occupant sensors are configured to automatically reduce lighting power by ≥ 50% when the zone is unoccupied for over 20 minutes; indicate controls are configured to automatically restore lighting to full power when the zone or space is occupie		
NA	C405.2.1.2	Occupant sensor controls - warehouse storage areas & library stacks	Indicate method of automatic 100% shut-off (occupancy sensor or time switch)		
YES	C405.2.1.3	Occupant sensor controls - open plan office areas	For open plan office areas larger than 300 sf, indicate all general lighting control zones are ≤ 600 sf	EL2.01	
YES	C405.2.1.3	Occupant sensor controls - open plan office areas	Indicate all general lighting control zones are provided with vacancy controls that are configured to reduce lighting power by not less than 80% when the zone is unoccupied and turn luminaires 100% off when the control zone is unoccupied; indicate unoccup	EL0.01	
NA	C405.2.1.4	Occupant sensor controls - enclosed fire-rated stairwells	Indicate stairway lighting is provided with occupancy sensor controls that reduce lighting power by not less than 50% when the stairway in unoccupied and restore lighting to 100% when it is occupied.		
YES	C405.2.1.5	Occupant sensor controls - corridors	Indicate corridor lighting is provided with occupancy sensor controls that reduce lighting power by not less than 50% when the corridor is unoccupied.	EL0.01	
YES	C405.2.2.1	Automatic time switch controls	Indicate spaces on plans where time switch controls are configured to turn luminaires 100% off during unoccupied hours	EL0.01	
YES			Indicate spaces on plans where time switch controls are configured to turn on lighting to full power versus 50% power	EL0.01	
YES			Indicate locations of override switches on plans and the lighting zone(s) served; indicate that the area(s) served by each override switch does not exceed 5,000 sf.	EL2.01	
YES	C405.2.5.2 C405.2.5.4	Daylight zones - Sidelit zones	Indicate primary and secondary sidelit daylight zone floor areas on plans	EL2.01	
NA			For small vertical fenestration assemblies (rough opening less than 10% of primary daylight zone floor area) where daylight responsive controls are not required, provide fenestration area to daylight zone floor area calculation(s).		
NA			Indicate toplit daylight zone floor areas on plans.		
YES	C405.2.5 C405.2.5.1	Daylight responsive controls	Indicate on plans all lighting zone(s) served by daylight responsive controls; indicate that the area served by each control device does not exceed 2,500 SF	EL2.01	

Lighting, Motor and Electrical Requirements List, pg 3 of 13

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YES			Identify sidelit and toplit daylight zones that are not provided with daylight responsive controls and the exception(s) that apply	EL0.01	
YES	C405.2.5.1	Daylight responsive controls	Indicate on plans that all daylight responsive controls provide continuous dimming to ≤15% full light output	EL2.01, EL0.01	
YES	C405.2.5.1	Daylight responsive controls	Indicate that daylight responsive controls are configured to completely shut off all controlled lighting fixtures within the lighting zone.	EL0.01	
NA	C405.2.6	Additional controls - Specific application lighting controls	Identify spaces and lighting fixtures on plans that require specific application lighting controls per this section.		
YES	C405.2.6, Items 1.1 thru 1.6	Additional lighting controls for display, accent & supplemental task lighting	Indicate on plans that all display, accent and supplemental task lighting fixtures are controlled independently from general area lighting	EL2.01	
NA	C405.2.6, Items 1.1 and 1.2	Display and accent lighting	For display and accent lighting fixtures, including lighting fixtures added per the C405.2.2.1 additional interior lighting power allowance, indicate on plans the separate manual controls for these fixtures and the type of automatic off controls (occupanc	EL2.01	
NA			For display case lighting fixtures, indicate on plans the separate manual controls for these fixtures and the type of automatic off controls (occupancy sensor or time-switch)		
YES	C405.2.6, Item 1.4	Supplemental task lighting	For supplemental task lighting fixtures including under-shelf or under-cabinet lighting, indicate on plans the separate manual controls for these fixtures and the type of automatic off controls (occupancy sensor or time-switch)	EL2.01	
NA	C405.2.6, Item 1.5	Lighting equipment for sale or demonstration	For lighting equipment for sale or demonstration, indicate on plans the separate manual controls for these fixtures and the type of automatic off controls (occupancy sensor or time-switch)		
NA			For exhibit lighting fixtures in galleries, museums and monuments, indicate on plans the separate manual controls for these fixtures and the type of automatic off controls (occupancy sensor or time-switch).		
	C405.2.6, Item 2	Permanently installed lighting in sleeping units	Indicate method of automatic off control of all installed luminaires in sleeping units (vacancy or captive key card control); also refer to Receptacles.		

Lighting, Motor and Electrical Requirements List, pg 4 of 13

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NA	C405.2.6, Item 3	Lighting for non-visual applications	For lighting serving non-visual applications (food warming and lighting for life support of nonhuman life forms), indicate on plans that lighting fixtures are controlled independently from both general area lighting and other lighting applications within		
NA			Indicate on plans separate manual controls for non-visual lighting application fixtures and applicable automatic lighting controls; indicate that the area served by each control device does not exceed 4,000 sf.		
NA			For task lighting that serves medical & dental purposes, indicate on plans that lighting fixtures are provided with manual control that is independent from general area lighting.		
YES	C405.2.6, Item 5	Means of egress lighting	Identify all means of egress lighting fixtures on plans including fixtures that function as both normal and emergency illumination	EL2.01	
YES			Provide calculation for total lighting power density (LPD) of all means of egress lighting fixtures; if total LPD is ≥ 0.01 Watts/SF, indicate on plans the method of automatic shut-off control during unoccupied periods (emergency relay & occupancy sens	EL0.01	
NA	C405.2.8	Advanced lighting controls in open office areas	For open office areas ≥ 5,000 sf, indicate which advanced lighting control system is provided (luminaire level lighting controls or networked lighting controls).		
	C405.2.8.1	Luminaire level lighting controls (LLLC)	Where LLLC are provided to comply with C405.2.8, or provided as the alternate lighting controls compliance method per C405.2, or to comply with C406.2.4.2 Enhanced digital interior lighting controls; provide sequence of operations that describes required		
NA	C405.2.8.1 C405.2.8.3	Luminaire level lighting controls (LLLC)	Indicate on plans that each LLLC luminaire is configured with occupancy sensing control functions (including C405.2.1.3 requirements for open office areas) and continuous full range dimming controls to brighten or dim lights based on occupancy and availab		
NA	C405.2.8.2	Networked lighting control (NLC)	Where NLC are provided to comply with C405.2.8, or to comply with C406.2.4.2 Enhanced digital interior lighting controls; provide sequence of operations that describes required NLC capabilities and performance parameters		
NA	C405.2.8.2 C405.2.8.3	Networked lighting control (NLC)	Indicate on plans that each NLC luminaire is individually addressable or document exception applied; Indicate on plans that each NLC luminaire is configured with occupancy sensing control functions (including C405.2.1.3 requirements for open office areas)		

Lighting, Motor and Electrical Requirements List, pg 5 of 13

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NA	C405.8.3	High end trim	Where high end trim is required, luminaires shall be initially configured to limit maximum lumen output or lighting power to 85% or to the target design lighting power.		
INTERIOR LIGHTING CONTROLS - ADDITIONAL ENERGY EFFICIENCY MEASURE					
	C406.2.4.2	Enhanced digital interior lighting controls	To comply with the enhanced interior lighting controls measure, provide calculations that demonstrate that lighting in ≥ 50% of the project floor area is provided with LLLC (C405.2.8.1) or NLC (C405.2.8.2) controls with high end trim (C405.2.8.3)		
			Where LLLC is provided, indicate on plans that each LLLC controlled luminaire is configured with integral sensors; where NLC is provided, indicate on plans that each NLC controlled luminaire is configured to be independently addressable; provide sequence		
NA	C406.2.4.1	Enhanced lighting controls in Group R-2	In Group R-2 occupancies, indicate on plans a master control at the main entrance to each dwelling or sleeping unit that switches off all lights and switched receptacles (may be two controls, one for lights and the other for receptacles); indicate on plan		
INTERIOR LIGHTING CONTROLS - LIGHTING LOAD MANAGEMENT MEASURE					
NA	C406.3.1	Interior lighting DDC controls & real-time demand response	To comply with the interior lighting load management measure, indicate automatic lighting controls are connected to a central DDC system capable of activation by an external utility signal; where utility real-time demand or pricing program exists, indicat		
NA	C406.3.1	Interior lighting power reduction controls	Indicate lighting controls are configured to gradually reduce by continuous dimming the interior general area lighting power by ? 20% in response to a peak demand signal; calculate the percentage of total building floor area served by load management ligh		
NA	C406.3.1	Warehouse & retail storage interior lighting power reduction controls	For warehouse & retail storage areas, indicate method of interior general area lighting power reduction (continuous dimming by ? 20%; switching off ? 25% of lighting power).		
EXTERIOR LIGHTING CONTROLS					
YES	C405.2.9 C405.2.9.1 C405.2.9	Exterior lighting controls	For all exterior lighting, indicate on plans automatic controls (either daylight sensing or astronomic time clock) configured to turn lighting off when daylight is present; or indicate exception applied.	EL0.01	
NA			For exterior building facade & landscape lighting, indicate that controls are configured to turn this lighting off when daylight is present for a minimum of 6 hours per night, or from 1 hour after closing to 1 hour before opening per the occupancy schedul		

Lighting, Motor and Electrical Requirements List, pg 6 of 13

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NA			For outdoor parking area (not parking garage) luminaires that are mounted ≤ 24 feet high and are rated at ≥ 40 watts, indicate that controls are configured to turn this lighting off when daylight is present; in addition, indicate controls are config		
YES			For exterior lighting other than building facade, landscape and outdoor parking area lighting, indicate controls are configured to reduce lighting power by at least 50% from 12am-6am, or 1 hour after closing to 1 hour before opening, or when no activity i	EL0.01	
	C405.2.10	Parking garage lighting control	Indicate all interior parking garage lighting fixtures are provided with time switch controls (per C405.2.2.1) or occupancy sensor controls (per C405.2.1.1); indicate controls are configured to reduce lighting power by at least 30% when no activity is det		
NA	C405.2.10	Parking garage lighting control - Perimeter lighting zones	For parking garage lighting fixtures located within 20 feet of perimeter wall openings, indicate on plans that daylight sensing controls are configured to reduce lighting power by at least 50%, or exception applied		
	C405.2.10	Parking garage lighting control - Eye adaptation lighting	For lighting fixtures at vehicle entrances & exits, indicate on plans that daylight sensing controls are configured to reduce lighting power by at least 50% from sunrise to sunset.		
NA	C405.3	Lighting for plant growth and maintenance	For permanently installed lighting fixtures used specifically for plant growth and maintenance, indicate that the photosynthetic photon efficacy measured at the lamp or luminaire is ≥ 1.7 ¡¿½mol/J in greenhouses and ≥ 1.9 ¡¿½mol/J in all other indoo		
NA	C405.5.4	Exterior gas-fired lighting appliances	Indicate ignition system is a method other then continuously burning pilot light.		
INTERIOR & EXTERIOR LIGHTING CONTROL CIRCUITS					
YES	C405.2.7	Area controls - Master control switches	Indicate location(s) of lighting master control switch(es) intended to control multiple independent switches; a circuit breaker may not be used as a lighting master control switch	E2.01 (LCP)	
YES			Verify the maximum power controlled by any single lighting control switch or automatic control device is no more than a 20 amp circuit loaded to ? 80%.	E5.02	
INTERIOR LIGHTING POWER & EFFICACY					
	C405.4.1	Total connected interior lighting power	Include all luminaires in interior lighting fixture schedule; indicate fixture types, lamps, ballasts and rated watts per fixture; include rated wattage of lamps for luminaires with lamps connected directly to building power; include wattage limit of tran	EL0.01	

7/16/25	60% OWNER REVIEW
8/27/25	90% OWNER REVIEW
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Lighting, Motor and Electrical Requirements List, pg 7 of 13

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NA			Identify spaces eligible for lighting power exemption on plans and in WSEC interior lighting compliance reports; indicate the exception applied		
NA			Identify lighting equipment eligible for lighting power exemption in fixture schedule and in WSEC interior lighting compliance reports; indicate the exception applied.		
	C405.1.1	Lighting in dwelling units	Include all permanently installed luminaires in dwelling units in interior lighting fixture schedule; include luminaire lighting power and efficacy (lumens)		
			Include all permanently installed luminaires in sleeping units in interior lighting fixture schedule; include luminaire lighting power or efficacy (lumens) depending on compliance path taken per C405.1		
NA			For all permenantly installed luminaires, indicate in interior lighting fixture schedule that rated lamp efficacy is ≥ 65 lumens/watt or luminaire efficacy is ≥ 45 lumens/watt.		
YES	C405.4.2	Interior lighting power allowance (LPA)	Indicate which interior LPA method is applied to the entire building (Building Area Method or Space-by-Space Method); indicate LPA applied is Space-by-Space Method for partial building projects and for buildings with unfinished spaces.	E0.04	
INTERIOR LIGHTING POWER CALCULATION - INDICATE COMPLIANCE PATH TAKEN					
NA	C405.4.2.1	Building Area Method	Demonstrate that total proposed interior lighting wattage per building does not exceed the sum of the maximum allowed wattages for all building area types; identify locations of building areas on plans; provide WSEC interior lighting compliance reports.		
YES	C405.4.2.2	Space-By-Space Method	Demonstrate that total proposed interior lighting wattage does not exceed the maximum allowed wattage; identify locations of space types on plans, including additional allowance retail display areas and areas with display, highlight and decorative lightin	E0.04	
INTERIOR LIGHTING POWER & EFFICACY - ADDITIONAL ENERGY EFFICIENCY MEASURES					
NA	C406.2.3.1 C406.2.3.2	Reduced interior lighting power density (LPD)	To comply with the reduced interior LPD additional energy efficiency measure, demonstrate that total proposed interior LPD wattage is 10% or 20% lower than the total interior LPA wattage for the area the reduced lighting power measure is being applied to		

Lighting, Motor and Electrical Requirements List, pg 8 of 13

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	C406.2.3.3	Reduced interior LPD - Dwelling & sleeping unit lamp efficacy	To comply with reduced interior LPD additional energy efficiency measure for a building with dwelling units or sleeping units, indicate in interior lighting fixture schedule that all permenantly installed luminaires have a rated lamp efficacy ≥ 90 lume		
EXTERIOR LIGHTING POWER & EFFICACY					
	C405.5.2	Total connected exterior lighting power	Include all luminaires in exterior lighting fixture schedule; indicate fixture types, lamps, ballasts and rated watts per fixture; include rated wattage of lamps for luminaires with lamps connected directly to building power; include wattage limit of tran	EL0.01	
NA			Identify exterior lighting applications eligible for lighting power exemption on plans and in WSEC exterior lighting compliance reports; indicate the exception applied.		
YES	TABLE C405.5.3(1)	Exterior lighting zone	Indicate the building exterior lighting zone as specified by the AHJ.	E0.04	
NA	C405.5.1	Exterior building grounds lighting	For building grounds lighting fixtures rated at greater than 25 watts, indicate in exterior lighting fixture schedule that fixtures have a rated lamp efficacy ≥ 100 lumens/watt or indicate the exception applied.		
EXTERIOR LIGHTING POWER CALCULATION					
YES	C405.5.3	Exterior lighting power allowance (LPA)	Demonstrate that total proposed exterior surface lighting wattage does not exceed the maximum allowed wattage (including base site allowance); identify locations of exterior surfaces on plans; provide WSEC exterior lighting compliance reports	E0.04	
YES			Demonstrate that total proposed wattage for each additional allowance exterior surface type does not exceed the LPA for the surface type (includes base site allowance remaining after C405.5.3 LPA calculation); identify locations of additional allowance ex	E0.04	
LIGHTING SYSTEMS ALTERATIONS					
NA	C503.7.1	New lighting systems and controls	Where new interior or exterior lighting systems are installed within an existing building site, indicate new lighting controls comply with C405.2; indicate commissioning of lighting controls (C408.4) and lighting system energy end-use metering (C409.3) wi		
YES	C503.7.2	Interior lighting & parking garage lighting alteration	Include all new luminaires in interior lighting fixture schedule in plans, provide same lighting fixture information as for new construction per C405.4.1 and C405.4.2	EL0.01, E0.04, spec div 26	

Lighting, Motor and Electrical Requirements List, pg 9 of 13

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			For alterations that add or replace ≥ 20% of luminaires within an interior space or parking garage, indicate which interior lighting power allowance (LPA) method is applied to the alteration project area (Space-by-Space Method for partial building alte		
			Demonstrate that total proposed interior lighting wattage (including existing-to-remain lighting wattage) within the alteration project area does not exceed the maximum allowed wattage (Space-by-Space Method) or the sum of the maximum allowed wattages for		
NA	C503.7.2	Interior lighting alterations (LPA) - Add/replace	For alterations that add or replace < 20% of luminaires in an interior space or parking garage, calculate total existing interior lighting wattage within the project area prior to the alteration		
NA	C503.7.2	Interior lighting alterations (LPD) - Add/replace	Demonstrate that total proposed interior lighting wattage (including existing-to-remain lighting wattage) within the alteration project area does not exceed the total existing interior lighting wattage prior to the alteration; provide WSEC interior lighti		
YES			Include all new luminaires in exterior lighting fixture schedule in plans, provide same lighting fixture information as for new construction per C405.5.2	EL0.01	
	C503.7.2	Exterior lighting alterations (LPA) - Add/replace &ge 20%	For alterations that add or replace ≥ 20% of exterior lighting wattage, indicate exterior lighting power allowance (LPA) calculated in the same manner as for new construction		
NA	C503.7.2	Exterior lighting alterations (LPD) - Add/replace &ge 20%	Demonstrate that total proposed exterior lighting wattage (including existing-to-remain lighting wattage) does not exceed the maximum allowed wattage; identify locations of surface types on plans, including additional allowance surfaces; provide WSEC exte		
NA	C503.7.2	Exterior lighting alterations (LPA) - Add/replace	For alterations that add or replace < 20% of exterior lighting wattage, calculate total existing exterior lighting wattage prior to the alteration		
NA	C503.7.2	Exterior lighting alterations (LPD) - Add/replace	Demonstrate that total proposed exterior lighting wattage (including existing-to-remain lighting wattage) does not exceed the total existing exterior lighting wattage prior to the alteration; identify locations of surface types on plans, including additio		
YES	C503.7.3	Interior lighting wiring & circuiting alterations	Where new wiring is installed to serve new interior luminaires and /or luminaires are relocated to a new circuit; indicate manual and automatic lighting controls are provided (as applicable) - manual & light reduction (C405.2.3 & C405.2.4); occupancy sens	EL0.01, EL2.01	

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YES			Where new wiring is installed to serve new exterior luminaires and /or luminaires are relocated to a new circuit; indicate circuit power area controls (C405.2.7) are provided; indicate commissioning of exterior lighting controls (C408.4) will be provided,	div 26 spec	
NA	C503.7.4	Lighting panel alterations	Where a new interior and/or exterior lighting panel is installed or an existing panel is moved (including all new raceway and conductor wiring), indicate all of the same interior lighting controls requirements as for wiring & circuiting alterations apply,		
	C503.7.5	Newly-created rooms	Where interior space(s) are reconfigured (permanently installed walls or ceiling-height partitions) to create new enclosed spaces, indicate the following manual and automatic lighting controls are provided (as applicable) - manual & light reduction (C405.		
NA	C504.2	Lighting repairs	Identify existing luminaires being upgraded with bulb and / or ballast replacement; indicate fixture alteration does not increase existing fixture wattage		
NA	C505.1	Change of interior space use	Identify spaces on plans where the building area type or space use type is being changed from one type to another per Tables C405.4.2(1) or (2) including additional allowance retail display areas and areas with display, highlight and decorative lighting		
NA			Demonstrate that total proposed interior lighting wattage (including existing-to-remain lighting wattage) within the alteration project area does not exceed the maximum allowed wattage (Space-by-Space Method) or the sum of maximum allowed wattage per each		
RECEPTACLES					
NA	C405.10	Automatic receptacle control	Provide schedule on electrical plans that lists the number of controlled and uncontrolled receptacles in each space where controlled receptacles are required - classrooms, enclosed offices, conference rooms, copy/print rooms, break rooms and individual wo		
NA			Identify all controlled and uncontrolled receptacles on electrical plans; indicate that ≥ 50% of all receptacles are provided with automatic controls in each space where they are required; include receptacle configuration such as spacing between contro		
NA			Indicate on plans the method of automatic control for each controlled receptacle zone (occupant sensor or programmable time-of-day control); indicate that the area served by each control device does not exceed 5,000 sf.		

Lighting, Motor and Electrical Requirements List, pg 11 of 13

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NA	C405.2.6, Item 2	Switched receptacles in sleeping units	Indicate method of automatic off control of all switched receptacles in sleeping units (vacancy or key card control).		
NA	C405.7.1	Electric receptacles at dwelling unit gas appliances	In all designated appliance locations within dwelling units (kitchen cooking appliances, laundry and domestic water heating), indicate electric receptacles or junction box & circuit within 12 inches of the appliance location with sufficient capacity to se		
NA	C503.7.7	Electrical receptacle alerations	For alteration project areas ≥ 5,000 sf where electric receptacles are added or replaced, indicate receptacles are provided with automatic controls per C405.10, or exception applied.	Square footage of alteration is less than 5,000SF	
ELECTRIC MOTORS					
NA	C405.8	Electric motor efficiency	Include all motors, including fractional hp motors, in electric motor schedule on electrical plans; indicate motor type, horsepower, rpm, rated efficiency, or exception applied.	No motors on project	
ELEVATORS, ESCALATORS & MOVING WALKS					
NA	C405.9.1	Elevator cabs	For luminaires in each elevator cab, provide calculations that demonstrate average efficacy is not less than 35 lumens per watt		
NA			For elevators that do not have an integral air conditioning system, indicate rated watts per cFm for elevator cab ventilation fans do not exceed 0.33 watts per cFm		
NA			Indicate automatic controls that de-energize lighting and ventilation fans when elevator is stopped and unoccupied for a period of 15 minutes or more.		
NA	C405.9.2	Escalators and moving walks	Indicate escalators and moving walks comply with ASME A17.1/CSA B44 and are provided with automatic controls that are configured to reduce operational speed to the minimum permitted when not in use, or exception applied.		
NA	C405.9.3	Escalator energy recovery	Indicate escalators are designed to recover electrical energy when resisting overspeed in the down direction.		
RENEWABLE ENERGY					
NA	C411	Renewable Energy	For new construction, including additions, change of use, and change of occupancy, with floor area ≥ 10000sf; provide documentation of on-site renewable energy capacity; provide calculations supporting applicable exceptions; if qualifying by exception provide an accounting for the additional Additional Energy Efficiency Credits that will be required		

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RENEWABLE ENERGY - ADDITIONAL ENERGY EFFICIENCY MEASURE					
NA	C406.2.5	On-site and off-site renewable energy	To comply with the renewable energy measure, provide an accounting of on-site and any contracted off-site renewable energy capacity; for all off-site sources, indicate the C411.2 renewable energy source type, energy factor, and the rated capacity and calculated code credited kW; indicate on-site renewables used to comply with C411 or for a code exception elsewhere in the code; with the remaining renewable energy provide Equation 4-17 calculations showing the achieved credits and that the achieved credits are ? the base credits for the measure		
NA	C406.2.5	On-site and off-site renewable energy	Provide documentation that all off-site renewable energy systems comply with Sections C411.2.2 and C411.2.3 including all contracts, and the ownership and location of off-site generation		
ELECTRIC ENERGY STORAGE - LOAD MANAGMENT MEASURE					
NA	C406.3.4	Electric energy storage	To comply with the electrical energy storage load managment measure, indicate automatic controls shall store electricity in electric storage devices during nonpeak periods and use stored energy during peak periods; Document the total electric storage device capacity; indicate it is ? 5 Wh/sf (58 Wh/sm) of gross building area; for proration provide the proration calculations supporting the claimed credit		
GENERAL ELECTRICAL SYSTEMS					
NA	C405.6	Electrical transformers	Include electrical transformer schedule on electrical plans; indicate transformer type, size (kVA), efficiency, or exception applied.		
NA	C405.7	Dwelling unit electrical energy consumption	Indicate on electrical plans that each dwelling unit in a Group R-2 building has a separate electrical energy meter, or exception applied.		
YES	C405.11	Voltage drop	Indicate wire conductors are sized so that the maximum voltage drop from customer service conductors to branch circuit conductors is &le 5%.	Refer to sheet E0.02 and E2.01	
NA	C405.12	Alternating current-output uninterruptible power supplies (AC-output UPS)	Indicate in plans that AC-output UPS systems serving computer rooms meet or exceed the calculation and testing requirements identified in ENERGY STAR Program Requirements for Uninterruptible Power Supplies (UPS) ? Eligibility Criteria Version 2.0.	UPS is not in project	
COMMISSIONING (CX)					

7/16/25	60% OWNER REVIEW
8/27/25	90% OWNER REVIEW
9/12/25	ISSUE FOR PERMIT
11/18/25	ISSUE FOR CONSTRUCTION

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	C408.4	Scope of electrical power & lighting systems commissioning	Indicate that all electrical systems (receptacles, transformers, motors, vertical & horizontal transportation) for which the WSEC requires control functions and/or configuration to perform specific functions are required to be commissioned; include docume		
			Where total building lighting load is ≥ 10 kW or the total lighting load of luminaires requiring daylight sensing and/or occupancy control is ≥ 5 kW, indicate that all automatic lighting control systems are required to be commissioned; or provide ca		
	C408.1.1	Commissioning requirements in construction documents	Indicate Cx requirements in plans and specifications for all applicable electrical and lighting control systems		
	C408.1.2 C103.6.3	Commissioning requirements in construction documents	General summary of Cx plan shall include the following: 1) Narrative description of activities; 2) Responsibilities of the Cx team; 3) Schedule of activities including verification of project close out documentation (C103.6); 4) Conflict of interest plan		
	C408.1.3 C408.1.4	Commissioning requirements in construction documents	Include in general summary that a Cx project report and Cx Compliance Checklist (Figure C408.1.4.1) shall be completed by the Certified Cx Professional and provided to the owner prior to the final electrical inspection.		
YES	C408.4.1	Functional performance testing criteria	Identify in plans and specifications the intended operation of all electrical equipment and controls during all modes of operation, including interfacing between new and existing-to-remain systems.	Refer to sheet E0.00, E0.01 and specifications.	
PROJECT CLOSE OUT					
YES	C103.6.3	Documentation requirements	Indicate in plans that project close out documentation is required; indicate information shall include WSEC lighting compliance reports that document all interior lighting areas and space types, exterior lighting surface types, interior/exterior lighting	Refer to sheet E0.00, E0.01, E0.04 and specifications.	
If "no" is selected for any question, provide explanation.					

7/16/25 60% OWNER REVIEW
8/27/25 90% OWNER REVIEW
9/12/25 ISSUE FOR PERMIT
11/18/25 ISSUE FOR CONSTRUCTION

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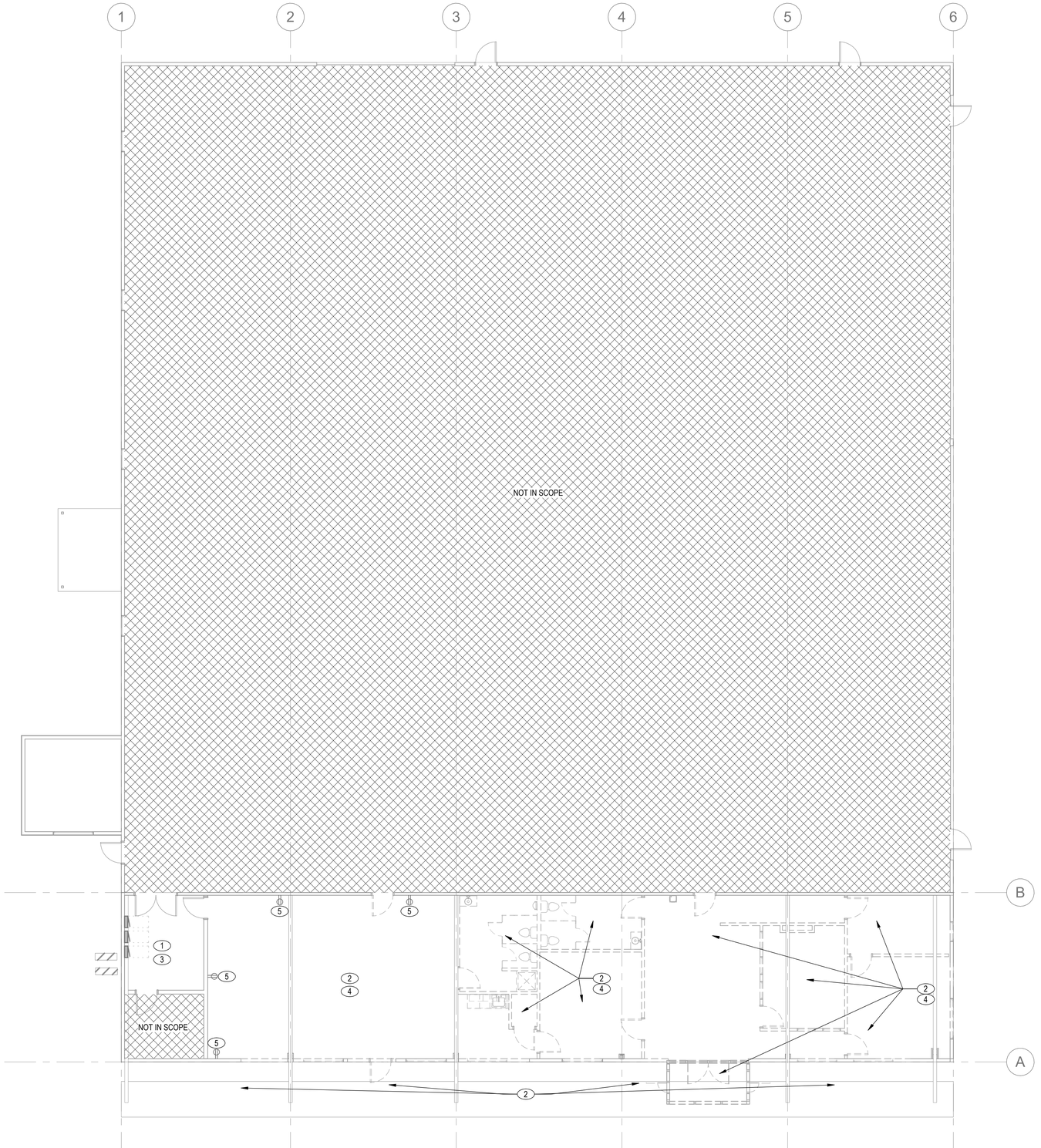

KEYED NOTES (#)

1. EXISTING LIGHTING AND LIGHTING CONTROLS IN THIS SPACE TO REMAIN.
2. DEMOLITION SCOPE OF WORK AREA. CONTRACTOR TO REMOVE AND DEMOLISH ALL LIGHT FIXTURES AND LIGHTING CONTROLS.
3. NOT IN SCOPE OF WORK. EXISTING ELECTRICAL INFRASTRUCTURE TO REMAIN.
4. REMOVE ALL EXISTING ELECTRICAL DEVICES ON WALLS TO BE DEMOLISHED. REMOVE BRANCH CIRCUIT WIRING TO SOURCE OR LAST DEVICE TO REMAIN. REFER TO DEMO NOTES ON SHEET E0.02.
5. EXISTING RECEPTACLE TO REMAIN. MAINTAIN CONTINUITY OF EXISTING BRANCH CIRCUIT WIRING.

1 DEMO FLOOR PLAN - POWER

SCALE: 1/8" = 1'-0"

1/8" = 1'-0"

0 8' - 0" 16' - 0" 24' - 0" 32' - 0"

7/18/25	60% OWNER REVIEW
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DEMO FLOOR PLAN - POWER AND LIGHTING

DRAWN BY: Author
CHECKED BY: Checker

ED2.01

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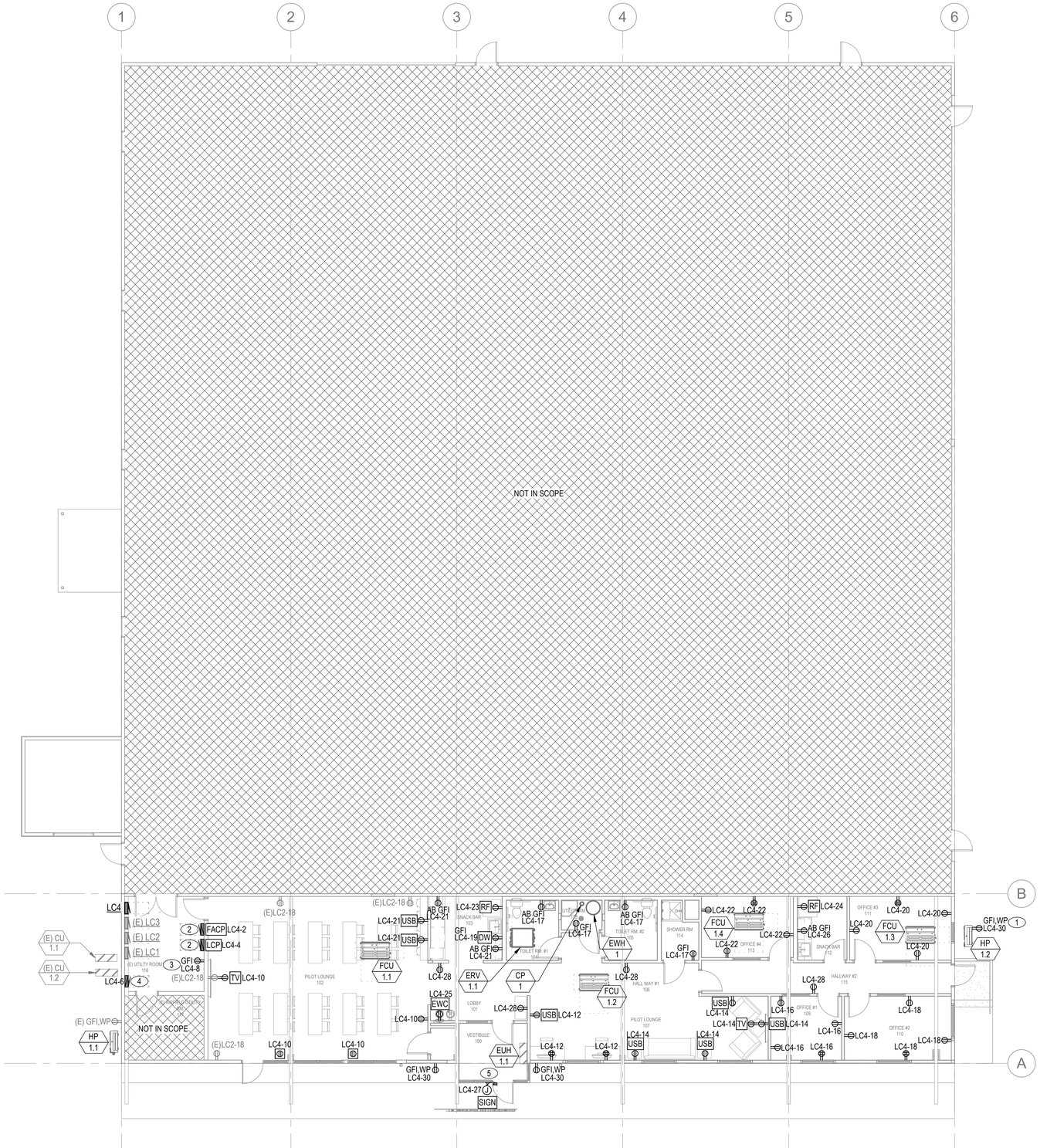

KEYED NOTES (#)

1. CONTRACTOR TO FIELD VERIFY THAT MECHANICAL UNIT IS WITHIN 25' OF CONVENIENCE RECEPTACLE. IF NOT, PROVIDE GFCI RECEPTACLE WITH WEATHERPROOF HOUSING AT UNIT. CIRCUIT TO NEAREST RECEPTACLE CIRCUIT.
2. PROVIDE 120V, 20A CIRCUIT TO CONTROL PANEL. COORDINATE EXACT LOCATION WITH ARCHITECT.
3. CONTRACTOR TO FIELD VERIFY THAT ELECTRICAL PANELS ARE WITHIN 25' OF CONVENIENCE GFCI RECEPTACLE. IF NOT, PROVIDE GFCI RECEPTACLE.
4. PROVIDE 120V, 20A CIRCUIT TO ACCESS CONTROL PANEL. COORDINATE EXACT LOCATION WITH ARCHITECT AND EXACT REQUIREMENTS WITH MANUFACTURER.
5. PROVIDE ELECTRICAL POWER WITH WEATHERPROOF DISCONNECT FOR SIGN ABOVE VESTIBULE. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION AND MANUFACTURER FOR POWER REQUIREMENTS.

1 **FLOOR PLAN - POWER**
SCALE: 1/8" = 1'-0"

1/8" = 1'-0"
0 8' - 0" 16' - 0" 24' - 0" 32' - 0"

7/18/25	60% OWNER REVIEW
8/27/25	90% OWNER REVIEW
9/12/25	ISSUE FOR PERMIT
11/18/25	ISSUE FOR CONSTRUCTION

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TERMINAL RENOVATION PROJECT
PEARSON FIELD
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VANCOUVER, WA 98661

DRAWING TITLE:
FLOOR PLAN - POWER

DRAWN BY: Author
CHECKED BY: Checker

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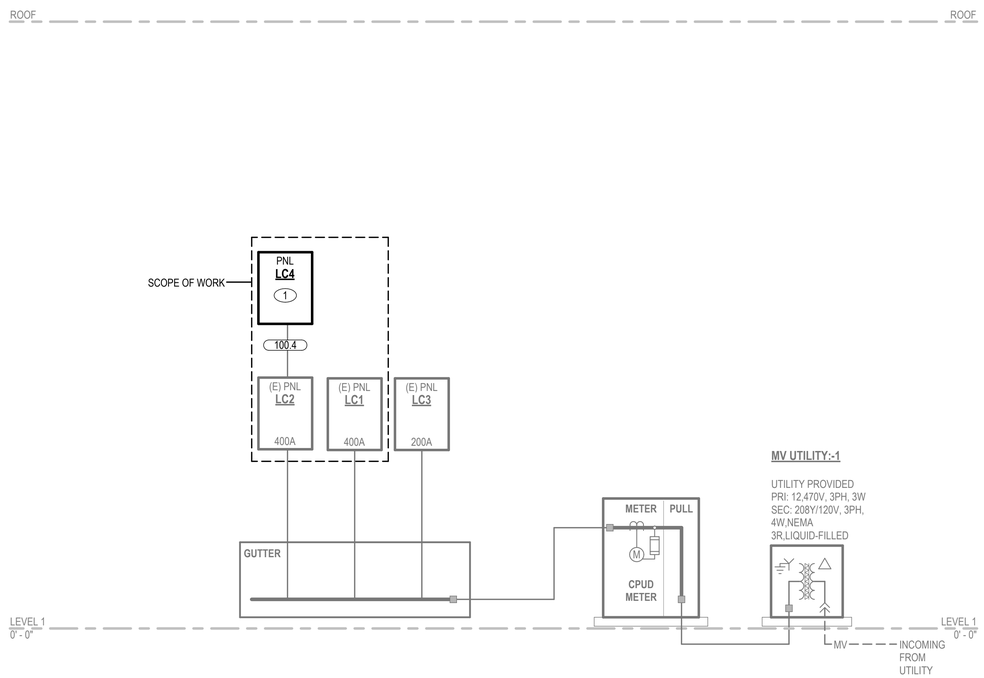
ELECTRICAL LOAD SUMMARY

PANEL DESCRIPTION	NEW LOAD	EXISTING LOAD TO BE REMOVED (KW)	NET LOAD CHANGE (KW)	NEW LOAD (KW)	PANEL VOLTAGE	NEW LOAD (AMPS)	PANEL BUS RATING	PANEL MAIN CB OR FEEDER CB
LC1	HP 1.1 & HP 1.2	11.26	-2.94	8.32	208	23.09	400A	400A
LC2	LC4 & EWH 1	31.10	1.53	32.63	208	90.57	400A	400A
	TOTALS		-1.41					



1 **PARTIAL ELECTRICAL SINGLE LINE DIAGRAM**
SCALE: NONE

SHEET NOTES

A. PARTIAL SINGLE LINE DIAGRAM INCLUDED FOR REFERENCE ONLY.
B. REFER TO SCHEDULES FOR FEEDER SIZES.
C. ALL COMPONENTS SHALL BE FULLY RATED FOR MAXIMUM AVAILABLE FAULT CURRENT. SERIES RATED EQUIPMENT IS NOT ALLOWED.
D. PROVIDE CABLE SUPPORTS FOR CONDUCTORS IN VERTICAL RACEWAYS PER NEC 300.19.
E. WHERE FEEDER CONDUCTORS HAVE BEEN OVERSIZED FOR VOLTAGE DROP AND ARE LARGER THAN THE LANDING BLOCKS OF THE DESTINATION BREAKER, REDUCE THE FEEDER SIZE PRIOR TO LANDING ON THE BREAKER. ALL REDUCTIONS AND SPLICING SHALL OCCUR OUTSIDE OF THE PANEL ENCLOSURE AT THE NEAREST PRACTICAL LOCATION IN AN ENCLOSURE LISTED FOR THIS PURPOSE.
F. ALL VARIABLE FREQUENCY DRIVES AND MOTOR CONTROLLERS, INCLUDING THOSE PROVIDED BY OTHER TRADES, SHALL BE SIZED FOR THE MOTOR BEING SERVED, RATED FOR AVAILABLE FAULT CURRENT AND INCLUDE OVERLOAD PROTECTION FOR THE MOTOR HP AND CLASS BEING SERVED.
G. PROVIDE ARC-FLASH HAZARD ANALYSIS STUDY BASED ON INSTALLED EQUIPMENT AND CONDUCTORS PER NEC 110.16. INSTALL ARC-FLASH WARNING LABELS ON ALL ELECTRICAL EQUIPMENT INCLUDED IN STUDY.

KEYED NOTES (#)

1. BRANCH PANEL TO MATCH KAIC RATING OF UPSTREAM ELECTRICAL PANEL.

7/16/25	60% OWNER REVIEW
8/27/25	90% OWNER REVIEW
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ELECTRICAL SINGLE LINE DIAGRAM

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PANEL SCHEDULE NOTES

[E] EXISTING TO REMAIN.
[D] CIRCUIT TO BE DEMOLISHED. CONTRACTOR TO FIELD VERIFY. LABEL CIRCUIT AS SPARE.
[NL] NEW LOAD ON EXISTING BREAKER.
[NB] NEW LOAD ON NEW BREAKER.
[GFI] PROVIDE 5MA GFCI CIRCUIT BREAKER FOR PERSONNEL PROTECTION.

PANEL: (E) LC1 — EXISTING

VOLTAGE: 208Y/120V, 3PH, 4W
MOUNTING: SURFACE
BUS RATING: 400 A
MAIN AMPS: 400 A MCB
AIC RATING: SEE EXISTING
NEMA RATING: Type 1
INTEGRAL SPD: No
ISOL GROUND BAR: No
FEED-THRU LUGS: No
DOUBLE-LUGS: No
LOCATION: (E) UTILTY ROOM 116
SUPPLY FROM: GUTTER

CKT	TRIP	POLE	DESCRIPTION	TYPE	A (kVA)		B (kVA)		C (kVA)		TYPE	DESCRIPTION	POLE	TRIP	CKT
1					3.84	3.84									2
3	40 A	3	[E] HANGAR UNIT HTR NW	--			3.84	3.84			--	[E] HANGAR UNIT HTR CENTER E	3	40 A	4
5									3.84	3.84					6
7					3.84	3.84									8
9	40 A	3	[E] HANGAR UNIT HTR SW	--			3.84	3.84			--	[E] HANGAR UNIT HTR CENTER E	3	40 A	10
11									3.84	3.84					12
13					3.84	3.84									14
15	40 A	3	[E] HANGAR UNIT HTR SE	--			3.84	3.84			--	[E] HANGAR UNIT HTR CENTER E	3	40 A	16
17									3.84	3.84					18
19					3.84	3.84									20
21	40 A	3	[E] HANGAR UNIT HTR	--			3.84	3.84			--	[E] HANGAR UNIT HTR CENTER E	3	40 A	22
23									3.84	3.84					24
25					3.84	3.84									26
27	40 A	3	[E] HANGAR UNIT HTR	--			3.84	3.84			--	[E] HANGAR UNIT HTR NE	3	40 A	28
29									3.84	3.84					30
31	20 A	2	[NB] HP 1.1	C	1.66	2.5					C	[NB] HP 1.2	2	30 A	32
33							1.66	2.5							34
35									3.84	1.5	--	[E] EXTERIOR GFCI	1	20 A	36
37	40 A	3	[E] STRIP HEAT WEST	--	3.84	1.5					--	[E] EAST OUTSIDE OUTLET	1	20 A	38
39							3.84	0			--	[E] SPARE	2	40 A	40
41	20 A	1	[E] SPARE	--					0	0					42
SPECIAL PANEL FEATURES					47.9 kVA		46.4 kVA		43.74 kVA		CIRCUIT NOTES				

LOAD TYPE	CONNECTED	DEMAND FACTOR	DEMAND LOAD
C	8.32 kVA	125%	10.4 kVA
Spare	129.72 kVA	100%	129.72 kVA

LOAD TYPE KEY: C = CONTINUOUS; E = ELEVATOR; K = KITCHEN; L = LIGHTING; M = MOTOR; MOTOR = LARGEST MOTOR; N = NON-CONTINUOUS; R = RECEPTACLE

PANEL TOTALS	KVA	AMPS
TOTAL CONNECTED LOAD:	138.04 kVA	383.2 A
TOTAL DEMAND LOAD:	140.12 kVA	388.9 A
SPARE CAPACITY:	0%	0%
DESIGNED CAPACITY:	**140.12 kVA**	**389 A**

PANEL: (E) LC2 — EXISTING

VOLTAGE: 208Y/120V, 3PH, 4W
MOUNTING: SURFACE
BUS RATING: 400 A
MAIN AMPS: 400 A MCB
AIC RATING: SEE EXISTING
NEMA RATING: Type 1
INTEGRAL SPD: No
ISOL GROUND BAR: No
FEED-THRU LUGS: No
DOUBLE-LUGS: No
LOCATION: (E) UTILTY ROOM 116
SUPPLY FROM: GUTTER

CKT	TRIP	POLE	DESCRIPTION	TYPE	A (kVA)		B (kVA)		C (kVA)		TYPE	DESCRIPTION	POLE	TRIP	CKT
1	20 A	1	[E] WORK BENCH LITES	--	1.5	1.5					--	[E] HANGAR LITES	1	20 A	2
3	20 A	1	[E] HANGAR LITES W ROW	--			1.5	1.5			--	[E] HANGAR LITES	1	20 A	4
5	20 A	1	[E] HANGAR LITES W ROW	--					1.5	1.5	--	[E] WEST NIGHT LITES	1	20 A	6
7	20 A	1	[E] HANGAR LITES W ROW	--	1.5	0					--	[D] PHONE RECEPT / COMPUTER	1	20 A	8
9	20 A	1	[E] PARTS LITES	--			1.5	0			--	[D] RM 7,8 RECEPT	1	20 A	10
11	20 A	1	[D] RM 12 LITES	--					0	1.5	--	[E] BENCH RECEPT	1	20 A	12
13	20 A	1	[D] RM 7 & 8 LITES EAST TO WEST	--	0	1.5					--	[E] BENCH RECEPT	1	20 A	14
15	20 A	1	[D] OFFICE 4,6,7 LITES	--			0	1.5			--	[E] BENCH RECEPT	1	20 A	16
17	30 A	1	[D] RM 2,3 LITES	--					0	1.5	--	[E] HANGAR RECEPT NE	1	20 A	18
19	30 A	1	[D] RM 2,3 RECEPTS	--	0	1.5					--	[E] HANGAR RECEPT CENTER W	1	20 A	20
21							3.84	1.5			--	[E] OUTSIDE LITES & DOOR	1	20 A	22
23	40 A	3	[E] HANGAR UNIT HTR NE	--					3.84	1.5	--	[E] WASH RM LITES & RECEPT. OUTSID...	1	20 A	24
25					3.84	7.23					L; R;				26
27							3.84	8.06			K; C;	[NB] PNL-LC4	3	100 A	28
29	40 A	3	[E] HANGAR UNIT HTR NE	--					3.84	7.27	N;...				30
31					3.84	3.67									32
33	30 A	2	[D] WATER HEATER	--			0	3.67			N	[NB] EWH 1	3	40 A	34
35									0	3.67					36
37					1.5	2.88									38
39	20 A	3	[E] COMPRESSOR NE	--			1.5	2.88			--	[E] HANGAR DOOR SE	3	30 A	40
41									1.5	2.88					42
SPECIAL PANEL FEATURES					30.46 kVA		31.29 kVA		30.5 kVA		CIRCUIT NOTES				

LOAD TYPE	CONNECTED	DEMAND FACTOR	DEMAND LOAD
C	3.14 kVA	125%	3.92 kVA
K	2.52 kVA	90%	2.27 kVA
L	2.24 kVA	125%	2.79 kVA
N	15.35 kVA	100%	15.35 kVA
R	8.82 kVA	100%	8.82 kVA
Motor	1.5 kVA	125%	1.88 kVA
Spare	58.68 kVA	100%	58.68 kVA

LOAD TYPE KEY: C = CONTINUOUS; E = ELEVATOR; K = KITCHEN; L = LIGHTING; M = MOTOR; MOTOR = LARGEST MOTOR; N = NON-CONTINUOUS; R = RECEPTACLE

PANEL TOTALS	KVA	AMPS
TOTAL CONNECTED LOAD:	92.24 kVA	256 A
TOTAL DEMAND LOAD:	93.71 kVA	260.1 A
SPARE CAPACITY:	0%	0%
DESIGNED CAPACITY:	**93.71 kVA**	**260 A**

PANEL: (E) LC3 — EXISTING

VOLTAGE: 208Y/120V, 3PH, 4W
MOUNTING: SURFACE
BUS RATING: 200 A
MAIN AMPS: 200 A MCB
AIC RATING: SEE EXISTING
NEMA RATING: Type 1
INTEGRAL SPD: No
ISOL GROUND BAR: No
FEED-THRU LUGS: No
DOUBLE-LUGS: No
LOCATION: (E) UTILTY ROOM 116
SUPPLY FROM: GUTTER

CKT	TRIP	POLE	DESCRIPTION	TYPE	A (kVA)		B (kVA)		C (kVA)		TYPE	DESCRIPTION	POLE	TRIP	CKT
1	20 A	1	[E] HANGAR LITES E SIDE	--	0	0					--	[E] HANGAR LITES E SIDE	1	20 A	2
3	20 A	1	[E] OUTSIDE LITES	--			0	0			--	[E] HANGAR LITES E SIDE	1	20 A	4
5	20 A	1	[E] OUTSIDE LITES	--					0	0	--	[E] HANGAR LITES E SIDE	1	20 A	6
7	30 A	1	[E] OUTLETS & LITES NW CORN.	--	0	0					--	[E] HANGAR LITES E SIDE	1	20 A	8
9	20 A	1	[E] HANGAR RECEPT SE	--			0	0			--	[E] HANGAR LITES E SIDE	1	20 A	10
11	70 A	2	[E] HANGAR HEAT E SIDE	--					0	0	--	[E] HANGAR LITES E SIDE	1	20 A	12
13					0	0									14
15	70 A	2	[E] HANGAR HEAT E SIDE	--			0	0			--	[E] SEWER PUMP STATION	2	30 A	16
17									0	0					18
19	50 A	2	[E] 220 OUTLETS E SIDE HANGAR	--	0	0					--	[E] HOIST RECEPT	2	20 A	20
21							0	0							22
23	15 A	1	[E] RECEPT	--					0	0	--	[E] 220 OUTLETS E SIDE HANGAR	2	20 A	24
25	20 A	1	[E] RECEPT	--	0	0					--	[E] REGULATOR RM OUTLETS	1	20 A	26
27	20 A	1	[E] SPARE	--			0	0							28
29	50 A	3	[E] BENCH LITES E HANGAR, LATHE	--					0	0	--	[E] BATTERY CHARGER RECEPT. W WALL, REGULATOR RM HTR	3	20 A	30
31					0	0									32
33							0	0							34
35	15 A	3	[E] CONTROL CIR HEAT WEST HANGAR	--					0	0	--	[E] HANGAR DOOR	3	30 A	36
37					0	0									38
39							0	0			--	[E] UPS CARD READERS (SPARE?)	1	30 A	40
41															42
SPECIAL PANEL FEATURES					0 kVA		0 kVA		0 kVA		CIRCUIT NOTES				

LOAD TYPE	CONNECTED	DEMAND FACTOR	DEMAND LOAD

LOAD TYPE KEY: C = CONTINUOUS; E = ELEVATOR; K = KITCHEN; L = LIGHTING; M = MOTOR; MOTOR = LARGEST MOTOR; N = NON-CONTINUOUS; R = RECEPTACLE

PANEL TOTALS	KVA	AMPS
TOTAL CONNECTED LOAD:	0 kVA	0 A
TOTAL DEMAND LOAD:	0 kVA	0 A
SPARE CAPACITY:	0%	0%
DESIGNED CAPACITY:	**0 kVA**	**0 A**

PANEL: LC4

VOLTAGE: 208Y/120V, 3PH, 4W
MOUNTING: SURFACE
BUS RATING: 100 A
MAIN AMPS: 100 A MLO
AIC RATING: SEE ONE LINE
NEMA RATING: Type 1
INTEGRAL SPD: No
ISOL GROUND BAR: No
FEED-THRU LUGS: No
DOUBLE-LUGS: No
LOCATION: (E) UTILTY ROOM 116
SUPPLY FROM: LC2

CKT	TRIP	POLE	DESCRIPTION	TYPE	A (kVA)		B (kVA)		C (kVA)		TYPE	DESCRIPTION	POLE	TRIP	CKT
1	20 A	2	ERV 1.1	N	0.66	0.5					N	FIRE ACCESS CONTROL PANEL	1	20 A	2
3							0.66	0.5			N	LIGHTING CONTROL PANEL	1	20 A	4
5	15 A	2	FCU 1.1	C					0.68	0.5	N	ACCESS CONTROL PANEL	1	20 A	6
7					0.68	0.18					R	ELECTRICAL RM - RECEPT	1	20 A	8
9	15 A	2	FCU 1.2, 1.3, 1.4	C			0.59	0.84			R; C	PILOT LOUNGE - RECEPTS	1	20 A	10
11									0.59	0.9	R	FLIGHT PLAN RM - RECEPTS	1	20 A	12
13	20 A	1	EUH 1.1	N	1.5	1.02					R; C	FLIGHT PLAN RM - RECEPTS	1	20 A	14
15	20 A	1	PILOT LOUNGE - LIGHTING	L			1.24	0.9			R	OFFICE #1 - RECEPTS	1	20 A	16
17	20 A	1	CP 1 & UTILITY, TOILETS - RECEPTS	R; N					0.76	0.9	R	OFFICE #2 - RECEPTS	1	20 A	18
19	20 A	1	KITCHEN - DISHWASHER	K	1.5	0.9					R	OFFICE #3 - RECEPTS	1	20 A	20
21	20 A	1	KITCHEN - RECEPTS	R			0.72	0.9			R	OFFICE #4 - RECEPTS	1	20 A	22
23	20 A	1	[GFI] KITCHEN - FRIDGE	K					1.2	1.2	K	[GFI] KITCHENETTE - FRIDGE	1	20 A	24
25	20 A	1	[GFI] ELECTRIC WATER COOLER	K	0.12	0.18					R	KITCHENETTE - RECEPT	1	20 A	26
27	20 A	1	SIGN POWER	L			1	0.72			R	HALLWAY, LOBBY - RECEPTS	1	20 A	28
29	20 A	1	SPARE	--					0	0.54	R	EXTERIOR - RECEPTS	1	20 A	30
31	20 A	1	SPARE	--	0	0					--	SPARE	1	20 A	32
33	20 A	1	SPARE	--			0	0			--	SPARE	1	20 A	34
35	20 A	1	SPARE	--					0	0	--	SPARE	1	20 A	36
37	--	1	SPACE	--	--	--					--	SPACE	1	--	38
39	--	1	SPACE	--			--	--			--	SPACE	1	--	40
41	--	1	SPACE	--					--	--	--	SPACE	1	--	42
SPECIAL PANEL FEATURES					7.23 kVA		8.06 kVA		7.27 kVA		CIRCUIT NOTES				

LOAD TYPE	CONNECTED	DEMAND FACTOR	DEMAND LOAD
C	3.14 kVA	125%	3.92 kVA
K	2.52 kVA	90%	2.27 kVA
L	2.24 kVA	125%	2.79 kVA
N	4.35 kVA	100%	4.35 kVA
R	8.82 kVA	100%	8.82 kVA
Motor	1.5 kVA	125%	1.88 kVA

LOAD TYPE KEY: C = CONTINUOUS; E = ELEVATOR; K = KITCHEN; L = LIGHTING; M = MOTOR; MOTOR = LARGEST MOTOR; N = NON-CONTINUOUS; R = RECEPTACLE

PANEL TOTALS	KVA	AMPS
TOTAL CONNECTED LOAD:	22.56 kVA	62.6 A
TOTAL DEMAND LOAD:	24.03 kVA	66.7 A
SPARE CAPACITY:	20%	20%
DESIGNED CAPACITY:	**28.84 kVA**	**80 A**

PANEL SCHEDULE KEY	
(E) PNL-LC1	(E) PNL-LC2
(E) PNL-LC3	PNL-LC4

7/16/25	60% OWNER REVIEW
8/27/25	90% OWNER REVIEW
9/12/25	ISSUE FOR PERMIT
11/18/25	ISSUE FOR CONSTRUCTION

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PANELBOARD SCHEDULES
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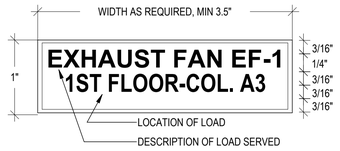
GENERAL EQUIPMENT



CIRCUIT BREAKERS IN DIST. PANELS

NOTES:

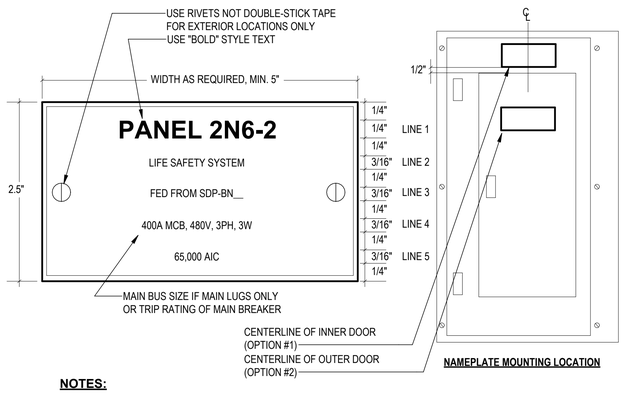
A. SEE DRAWINGS FOR ADDITIONAL NAMEPLATE INFORMATION AND COLORS OF NAMEPLATES FOR DIFFERENT SYSTEMS.

B. TEXT SHOWN ABOVE IS FOR EXAMPLE ONLY. MODIFY TEXT AS REQUIREDTO MATCH EQUIPMENT SPECIFICATIONS.

C. CENTER ALL TEXT HORIZONTALLY.

4 EQUIPMENT IDENTIFICATION NAMEPLATES

SCALE: NONE



NAMEPLATE MOUNTING LOCATION

NOTES:

A. SEE DRAWINGS FOR ADDITIONAL NAMEPLATE INFORMATION AND COLORS OF NAMEPLATES FOR DIFFERENT SYSTEMS.

B. PROVIDE ONE NAMEPLATE FOR EACH PANEL OR MCC SECTION. WHERE SECTION NUMBER TWO AND ABOVE ARE WITHIN. SAME ROOM AND WITHIN 10' OF EACH OTHER SMALLER SIZE NAMEPLATE CAN BE USED.

C. CENTER ALL TEXT HORIZONTALLY.

D. TEXT SHOWN ABOVE IS FOR EXAMPLE ONLY. MODIFY TEXT AS REQUIRED TO MATCH EQUIPMENT SPECIFICATIONS

E. DRILL HOLES ON EXTERIOR NAMEPLATES ONLY.

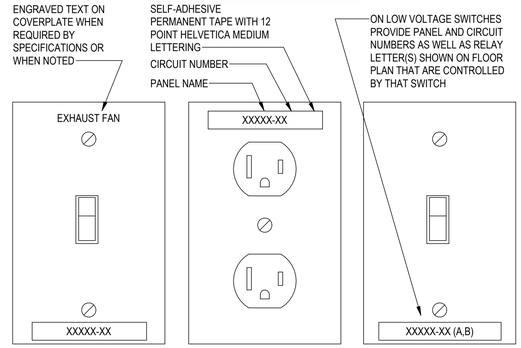
F. PROVIDE TYPED PANEL SCHEDULES IN DOOR SLEEVES FOR ALL PANELS. INDICATE LOAD DESCRIPTION AND BREAKER.

G. NAMEPLATES ARE NOT REQUIRED FOR APARTMENT AND CONDO PANELS.

3 BRANCH PANEL NAMEPLATE

SCALE: NONE

TYPICAL CIRCUIT IDENTIFICATION:



SPECIALTY DEVICE OR SWITCH | **RECEPTACLES** | **LIGHT SWITCHES**

NOTES:

A. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION AND COLORS OF TAPE REQUIRED FOR DIFFERENT SYSTEMS.

B. TEXT SHOWN ABOVE IS FOR EXAMPLE ONLY. MODIFY TEXT AS REQUIRED TO MATCH INSTALLATION.

C. LABEL DEVICES IN SURFACE METAL RACEWAYS, POWER POLES, FLOOR BOXES, CONCEALED MULTI-SERVICE POWER BOXES, ETC. SIMILARLY.

D. WHERE MULTIPLE SWITCHES ARE GROUPED UNDER COMMON COVERPLATE AND ARE SERVED FROM SAME CIRCUIT, PROVIDE ONLY ONE LABEL FOR MIDDLE SWITCH. PROVIDE MULTIPLE LABELS IF DIFFERENT CIRCUITS ARE USED.

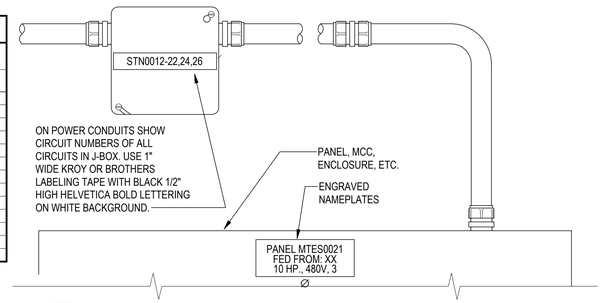
E. LABELS ARE NOT REQUIRED FOR DEVICES IN APARTMENTS AND CONDOS.

2 DEVICE & SWITCH LABELING

SCALE: NONE

NAMEPLATE COLOR LEGEND

SERVICE	NAMEPLATE COLOR (1)		
	TEXT	BACKGROUND	ROWMARK #
NORMAL	WHITE	BLACK	122-402
EMERGENCY	WHITE	RED	122-602
FIRE ALARM & SECURITY	RED	WHITE	122-206
UPS - SYSTEM "A"	WHITE	ORANGE	122-612
UPS - SYSTEM "B"	BLUE	YELLOW	122-705
STANDBY	WHITE	BLUE	122-512
GENERATOR	WHITE	BRIGHT GREEN	122-932
15KV MEDIUM VOLTAGE	WHITE	PURPLE	122-582
OTHERS	BLACK	WHITE	122-204



NOTES:

A. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.

B. TEXT SHOWN ABOVE IS FOR EXAMPLE ONLY. MODIFY TEXT AS REQUIRED TO MATCH EQUIPMENT SPECIFICATIONS.

C. ROWMARK # IS THE COLOR OF THE PLASTIC ENGRAVING MATERIAL. USE ROWMARK 1/16" SATIN STOCK AS NOTED.

1 RACEWAY AND NAMEPLATE IDENTIFICATION - COMMERCIAL BUILDING

SCALE: NONE

7/18/25	60% OWNER REVIEW
8/27/25	90% OWNER REVIEW
9/12/25	ISSUE FOR PERMIT
11/18/25	ISSUE FOR CONSTRUCTION

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CITY OF Vancouver WASHINGTON

PEARSON FIELD
TERMINAL RENOVATION PROJECT
PEARSON FIELD
101 EAST RESERVE ST.
VANCOUVER, WA 98661

DRAWING TITLE:
ELECTRICAL DETAILS

DRAWN BY: Author
CHECKED BY: Checker

E9.01

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LUMINAIRE SCHEDULE

TAG	DESCRIPTION	MANUFACTURER	MODEL	FINISH	LAMP			CCT	POWER SUPPLY		VOLTAGE	LOAD	MOUNTING	COMMENTS
					TYPE	LUMENS	CRI		DRIVER	DIMMING TYPE			TYPE	
DA1	3-INCH RECESSED DOWNLIGHT WITH WIDE OPTICS	PRESCOLITE	LTR-3RD-H SL 10L DM1 LTR-3RD-T SL 30K 9 WD SS WT	WHITE	LED	1000	90+	3000K	INTEGRAL	0-10V 1%	120 V	11.9 W	RECESSED	
DA2	3-INCH RECESSED DOWNLIGHT WITH WIDE OPTICS; SHOWER RATED	PRESCOLITE	LTR-3RD-H SL 10L DM1 LTR-3RD-T SH SL 30K 9 WD SS WT	WHITE	LED	1000	90+	3000K	INTEGRAL	0-10V 1%	120 V	11.9 W	RECESSED	
RA1	2X4 RECESSED ARCHITECTURAL TROFFER; MOUNTING FOR GRID CEILING	COLUMBIA	LCAT24 S 9 30 L042 G ED1 U	STANDARD	LED	4177	90+	3000K	INTEGRAL	0-10V 1%	120 V	28.1 W	RECESSED	
RA1E	2X4 RECESSED ARCHITECTURAL TROFFER; MOUNTING FOR GRID CEILING; PROVIDE WITH INTEGRAL BATTERY BACKUP	COLUMBIA	LCAT24 S 9 30 L042 G ED1 U ELL14	STANDARD	LED	4177	90+	3000K	INTEGRAL	0-10V 1%	120 V	28.1 W	RECESSED	
RB1	2X2 RECESSED ARCHITECTURAL TROFFER; MOUNTING FOR GRID CEILING	COLUMBIA	LCAT22 S 9 30 LW G ED1 U	STANDARD	LED	2816	90+	3000K	INTEGRAL	0-10V 1%	120 V	19.6 W	RECESSED	
RB1E	2X2 RECESSED ARCHITECTURAL TROFFER; MOUNTING FOR GRID CEILING; PROVIDE WITH INTEGRAL BATTERY BACKUP	COLUMBIA	LCAT22 S 9 30 LW G ED1 U ELL14	STANDARD	LED	2816	90+	3000K	INTEGRAL	0-10V 1%	120 V	19.6 W	RECESSED	
SA1	3-INCH RECESSED EXTERIOR DOWNLIGHT	HUNZA	EAVE/L D7 (FINISH) 25 3	TBD	LED	420	90+	3000K	INTEGRAL	0-10V 1%	120 V	4.0 W	RECESSED	FINISH TO BE DETERMINED
SA1E	3-INCH RECESSED EXTERIOR DOWNLIGHT; BATTERY BACKUP	HUNZA	EAVE/L D7 (FINISH) 25 3	TBD	LED	420	90+	3000K	INTEGRAL	0-10V 1%	120 V	4.0 W	RECESSED	FINISH TO BE DETERMINED; PROVIDE 3RD PARTY REMOTE BATTERY BACKUP
UA1	0.6-INCH LED STRIP LIGHT AND CHANNEL; PROVIDE CONTINUOUS LENGTHS PER PLAN	PUREEDGE	LCS.6 2.5 12-120 D 30K SA	STANDARD	LED	127 / FT	90+	3000K	REMOTE	0-10V	120 V	2.5 W / FT	SURFACE	CONCEAL REMOTE DRIVER IN ACCESSIBLE LOCATION AT KITCHEN CASEWORK
WA1	2-FOOT WALL MOUNTED VANITY; MOUNT HORIZONTALLY OVER MIRROR	AFX	LIAV 2404 LAJ U D (FINISH)	TBD	LED	1700	90+	3000K	INTEGRAL	0-10V	120 V	18.0 W	WALL	FINISH TO BE DETERMINED
WB1E	7-INCH BY 5-INCH WALL PACK	BEACON	EWL1 48L-10 3K8 3 UNV (FINISH) E	TBD	LED	1000	80	3000K	INTEGRAL	0-10V	120 V	10.1 W	WALL	MOUNTING HEIGHT: 7'-0" TO BOTTOM OF FIXTURE
XA1E	CEILING MOUNTED EXIT SIGN WITH RED LETTERING; PROVIDE FACES AND CHEVRONS AS SHOWN ON PLANS; PROVIDE WITH INTEGRAL BATTERY BACKUP	DUAL LITE	LES C (FACES) (ARROWS) N E	ALUMINUM	LED	-	-	-	INTEGRAL	-	120 V	5.0 W	PENDANT	

SCHEDULE NOTES

A. FURNISH ALL LUMINAIRES COMPLETE WITH MOUNTING ACCESSORIES TO MEET JOB REQUIREMENTS. VERIFY MOUNTING WITH CEILING TYPES AND COORDINATE LUMINAIRE TRIM AND ACCESSORIES PRIOR TO ORDERING.
B. SERIES LUMINAIRES SHALL SATISFY LENGTHS AS SHOWN ON THE DRAWINGS. LUMINAIRE TAGS SHOWN ON A CONTINUOUS LUMINAIRE SHALL BE TYPICAL FOR THE ENTIRE LENGTH, UON. VERIFY TOTAL LENGTH AND MOUNTING OF ALL SERIES LUMINAIRES WITH ARCHITECT.
C. PROVIDE ALL LUMINAIRES BY SPECIFIED MANUFACTURER OR APPROVED EQUIVALENT LISTED AS AN ADDITIONAL MANUFACTURER IN THE LUMINAIRE SCHEDULE. SEE ADDITIONAL INFORMATION UNDER THE SUBSTITUTION SECTION WITHIN THE DIVISION 26 SPECIFICATION.
D. PROVIDE AND INSTALL ALL DRIVERS AND/OR TRANSFORMERS REQUIRED TO OPERATE ALL LAMPS SPECIFIED, INCLUDING REMOTE DRIVERS AND/OR TRANSFORMERS AND THE ENCLOSURES FOR THE SAME. VERIFY COMPATIBILITY BETWEEN LAMPS, DRIVERS AND/OR TRANSFORMERS. NOTIFY ARCHITECT AND ENGINEER/LIGHTING CONSULTANT OF ANY INCOMPATIBILITY PRIOR TO ORDERING EQUIPMENT.
E. PRELIMINARY AIMING OF ALL ADJUSTABLE LIGHTING EQUIPMENT SHALL BE PERFORMED DURING INSTALLATION BY THE ELECTRICAL CONTRACTOR AS INDICATED ON THE LIGHTING PLANS / AIMING DIAGRAM. FINAL AIMING OF ALL ADJUSTABLE LIGHTING EQUIPMENT SHALL BE DONE BY THE ELECTRICAL CONTRACTOR AS DIRECTED BY THE ARCHITECT.
F. IN ALL LUMINAIRES WITH ADJUSTABLE SOCKETS, SET SOCKETS DURING INSTALLATION TO LOCATE SPECIFIED LAMP IN CORRECT RELATIONSHIP TO REFLECTOR AS RECOMMENDED BY LUMINAIRE MANUFACTURER.
G. PROVIDE SHOP DRAWINGS FOR ALL CUSTOM LUMINAIRES.
H. PROVIDE SHOP DRAWINGS FOR ALL CONTINUOUS LENGTH LUMINAIRES. IF LUMINAIRES SPAN ACROSS MULTIPLE DAYLIGHT OR OCCUPANCY SENSOR ZONES, PROVIDE MULTIPLE DROPS FOR REVIEW ON THE SHOP DRAWING SUBMITTAL.
I. PROVIDE SHOP DRAWINGS FOR ALL LUMINAIRES WITH DIFFERING CHARACTERISTICS (I.E. MOUNTING TYPE FOR ACT VS. "HARD" CEILING).
J. ALL LUMINAIRE FINISHES AND MOUNTING HEIGHTS SHALL BE REVIEWED AND VERIFIED BY INTERIOR DESIGNER AND/OR ARCHITECT PRIOR TO PURCHASE.
K. COORDINATE ALL ACCESS PANELS, DRIVER AND OR TRANSFORMER LOCATIONS, AND LIGHTING RELAY CONTROLLER LOCATIONS WITH ARCHITECT PRIOR TO INSTALLATION.
L. MOUNTING HEIGHTS INDICATED ARE FROM FINISHED FLOOR TO BOTTOM EDGE OF LUMINAIRE.

LIGHTING CONTROL SEQUENCE OF OPERATION (SOO)

SPACE TYPE *	ZONING		PHOTOCELL **						TIMECLOCK		OCCUPANCY SENSOR ***									MANUAL OVERRIDE †			
	ONE ZONE	DEDICATED ZONE PER FIXTURE TYPE	PRIMARY ZONE	SECONDARY ZONE	TOPLIT ZONE	GENERAL ZONE	FC SET POINT	MEASURED AT (INCHES AFF)	AUTO-ON TIME	AUTO-OFF TIME	MANUAL-ON	LIGHT LEVEL (UPON DETECTION)	AUTO-ON	LIGHT LEVEL (UPON DETECTION)	PARTIAL AUTO-OFF	LIGHT LEVEL (UPON TIMEOUT)	TIMEOUT TO PARTIAL OFF (MINUTES)	FULL AUTO-OFF	LIGHT LEVEL (UPON TIMEOUT)	TIMEOUT TO FULL OFF (MINUTES)	ON / OFF	RAISE / LOWER	OVERRIDE DURATION (MINUTES)	NETWORKED
OFFICE	X										X	100%						X	0%	20	X	X		X
FLIGHT PLAN	X		X	X			30	30			X	100%						X	0%	20	X	X		X
KITCHENETTE		X									X	100%						X	0%	20	X	X		X
RR/SHOWER	X										X	100%			X	50%	15	X	0%	20	X	X		X
LOBBY/VEST/CORRIDOR	X								OPEN	CLOSE			X	100%	X	50%	15	X	0%	60	X	X	120	X
PILOT LOUNGE	X		X	X			30	30			X	100%						X	0%	20	X	X		X
EXTERIOR BLDG/CANOPY		X							DUSK	12AM											X	X		X

GENERAL NOTES

A. FOR LIGHTS SHOWN ON PLANS THAT ARE DENOTED AS EMERGENCY, PROVIDE UL924 DEVICE(S) SO THAT LIGHTS TURNS ON TO FULL BRIGHTNESS UPON LOSS OF NORMAL POWER OR FIRE ALARM SYSTEM ACTIVATION. ALL EMERGENCY LIGHTS SHALL BE CONTROLLED IN THE SAME MANNER AS THE NEARBY NORMAL POWER LIGHTS.

B. DAYLIGHT RESPONSIVE CONTROLS TO PROVIDE CONTINUOUS DIMMING TO <=15% OUTPUT.

C. CONFIRM TIMECLOCK SCHEDULING WITH OWNER PRIOR TO SEQUENCING

LIGHTING BOD

A. LIGHTING SCOPE OF WORK ENTAILS DEMOLITION OF EXISTING LIGHTING SYSTEMS AND REPLACEMENT WITH NEW FOR ALTERATION AREAS.

B. THE DESIGN INCLUDES THE FOLLOWING NOTABLE FEATURES, BUT IS NOT LIMITED TO THIS SCOPE. CONTRACTOR IS RESPONSIBLE FOR REVIEWING ALL CONTRACT DOCUMENTS AND COORDINATING WITH ALL DISCIPLINES.

C. CODES AND STANDARDS
1. AMERICANS WITH DISABILITIES ACT, (ADA)
2. IESNA: ILLUMINATING ENGINEERING SOCIETY OF NORTH AMERICA
3. BUILDING CODES ENFORCED BY THE AUTHORITY HAVING JURISDICTION (AHJ):
   a. 2021 WASHINGTON STATE BUILDING CODE (CBC) (BASED ON THE 2021 INTERNATIONAL BUILDING CODE WITH STATE AND LOCAL AMENDMENTS).
   b. 2021 WASHINGTON STATE ENERGY CODE (WSEC) FOR COMMERCIAL COMPLIANCE.

D. DESIGN CRITERIA
1. THE PRIMARY LIGHT SOURCE FOR ALL LUMINAIRES WILL BE LED LAMPS OR LUMINAIRES WITH INTEGRATED LED LIGHT ENGINES TO KEEP MAINTENANCE SIMPLE AND COSTS AS LOW AS POSSIBLE.
2. THE LIGHTING WILL BE A FULL LED PACKAGE WITH DIMMING CAPABILITY. SEE CONTROL INTENT NARRATIVE FOR MORE DETAIL.
3. LUMINAIRES AND SYSTEMS WILL BE SELECTED TO MATCH THE BUILDING'S AESTHETIC IN CONJUNCTION WITH THE ARCHITECT, INTERIOR DESIGNER, AND LANDSCAPE ARCHITECT WHILE ALSO MEETING EFFICIENCY, DURABILITY AND EASE OF MAINTENANCE CONCERNS.
4. REFERENCE LUMINAIRE SCHEDULE FOR REQUIRED LED LIGHT ENGINE CHARACTERISTICS.
5. REFERENCE LUMINAIRE SCHEDULE FOR REQUIRED LUMINAIRE ELECTRICAL CHARACTERISTICS.
6. THE PROPOSED WATTS FOR INSTALLED LIGHTING SHALL MEET ALL APPLICABLE CODE REQUIREMENTS.
7. EMERGENCY EGRESS LIGHTING:
   a. EMERGENCY EGRESS LIGHTING PLANS WILL BE BASED ON THE ARCHITECT'S LIFE SAFETY PLAN AND REVIEWED BY THE AHJ FOR CONFORMITY.
   b. INTERNALLY ILLUMINATED LED EXIT SIGNS WILL BE PROVIDED AS REQUIRED TO MARK THE PATH OF EGRESS.
   c. EGRESS LIGHTING WILL BE INTEGRATED WITH THE NORMAL LIGHTING OF THE GENERAL BUILDING LIGHTING SYSTEMS. EGRESS LIGHTING WILL BE DESIGNED TO COMPLY WITH LOCAL CODE REQUIREMENTS. EGRESS LIGHTING WILL BE POWERED BY BATTERY PACKS INTEGRATED INTO EACH EMERGENCY LUMINAIRE.
8. THE LIGHTING DESIGN WILL CONFORM TO RECOMMENDED DESIGN PRACTICES OF THE IESNA AND LOCAL OR NATIONAL CODE REQUIRED ILLUMINATION LEVELS. ADDITIONAL LIGHTING WILL BE PROVIDED WHERE NECESSARY PER OWNER REQUIREMENTS.
   a. OFFICE: 30 FC AT TASK SURFACE
   b. ASSEMBLY (PILOT LOUNGE): 30 FC AT TASK SURFACE
   c. FLIGHT PLAN ROOM: 30 FC AT TASK SURFACE
   d. RESTROOM: 20 FC AT FLOOR
   e. LOBBY/CORRIDOR: 10 FC AT FLOOR
9. LIGHTING CONTROLS: REFER TO LIGHTING CONTROL INTENT NARRATIVE.

CONTROL INTENT NARRATIVE (CIN)

A. REFER TO LIGHTING PLANS AND ASSOCIATED NOTES AND SPECIFICATIONS FOR FUNCTIONAL CONTROL INTENT.
B. LIGHTING CONTROL COMPLIANCE USING GENERAL CONTROLS REQUIREMENTS.
C. PROVIDE MANUFACTURER SHOP DRAWINGS INDICATING ALL DEVICES AND EQUIPMENT NECESSARY TO MEET THE REQUIREMENTS OUTLINED IN THE LIGHTING PLANS, DETAILS, AND ASSOCIATED NOTES AND SPECIFICATIONS FOR FUNCTIONAL CONTROL INTENT, AS WELL AS THE CONTROL INTENT NARRATIVE OUTLINED HERE.
D. PROVIDE A COMPLETE AND FUNCTIONAL LIGHTING CONTROL SYSTEM WITH ALL COMPONENTS, INTERCONNECTIONS, AND PROGRAMMING NECESSARY TO MEET THE SPECIFIED CONTROL INTENT; INCLUDING BUT NOT LIMITED TO ALL POWER PACKS, DISCRETE RELAYS, HUBS, AND/OR CONTROL PANELS, ETC. COORDINATE LIGHTING CONTROL DESIGN WITH LIGHTING CONTROL VENDOR(S) AND LUMINAIRE VENDOR(S) AS NECESSARY.
E. THE CONTROL SYSTEM SHALL INCLUDE SOFTWARE FOR PROGRAMMING AND MANAGEMENT OF LIGHTING. ELECTRICAL CONTRACTOR SHALL PROVIDE A LOCAL SERVER AND COORDINATE ITS LOCATION WITH FACILITIES.
F. SPECIFIED CONTROL ZONES ON PLANS INDICATE HOW LUMINAIRES ARE TO NORMALLY BEHAVE. CONTROL ZONES DO NOT INDICATE SPECIFIC LEGS OF POWER OR SPECIFIC CONTROL WIRES. PROVIDE ALL CONTROL COMPONENTS AND INTERCONNECTIONS REQUIRED TO MEET THE FUNCTIONAL CONTROL INTENT SHOWN.
G. LIGHTING CONTROLS SHALL SHALL BE BACNET-COMPATIBLE (OR OWNER-SPECIFIED PROTOCOL) FOR INTEGRATION WITH BMS BY DIVISION 23. LIGHTING CONTROLS SHALL BE CAPABLE OF PROVIDING OCCUPANCY SENSOR STATUS UPDATES TO MECHANICAL EQUIPMENT AND UTILIZE THE BMS ASTRONOMICAL TIMECLOCK FOR LIGHTING CONTROL PROFILES.
H. LIGHTING PLANS DO NOT SHOW ALL REQUIRED LIGHTING CONTROL EQUIPMENT, DEVICES, AND INTERCONNECTIONS. WHERE SPECIFIC COMPONENTS OR INTERCONNECTIONS ARE SHOWN, THEY ARE SHOWN TO:
   a. ASSIST IN ARCHITECTURAL COORDINATION, AND/OR
   b. BE A CLARIFYING VISUAL AID, INTENDED TO HELP COMMUNICATE SPECIFIC CONTROL FUNCTIONS
I. OCCUPANCY/VACANCY SENSORS
   a. PROVIDE OCCUPANCY/VACANCY SENSORS AS INDICATED IN THE LIGHTING CONTROLS SEQUENCE OF OPERATIONS MATRIX.
   b. PLANS ARE DIAGRAMMATIC AND FOR COORDINATION PURPOSES ONLY. THE QUANTITY AND LAYOUT OF OCCUPANCY/VACANCY SENSORS SHALL BE DETERMINED BY THE LIGHTING CONTROL VENDOR.
   c. PROVIDE AUXILIARY CONTACT IN ALL SPACES WITH OCCUPANCY SENSING FOR HVAC INTEGRATION AND TEMPERATURE SETBACK.
J. DAYLIGHT SENSORS
   a. PROVIDE AUTOMATIC DAYLIGHT RESPONSIVE CONTROLS AS INDICATED IN THE LIGHTING CONTROLS SEQUENCE OF OPERATIONS MATRIX.
   b. PLANS ARE DIAGRAMMATIC AND FOR COORDINATION PURPOSES ONLY. THE QUANTITY AND LAYOUT OF DAYLIGHT SENSORS SHALL BE DETERMINED BY THE LIGHTING CONTROL VENDOR.
   c. REFER TO PLANS FOR DAYLIGHTING ZONES. PROVIDE SEPARATE CONTROL FOR LIGHTS THAT FALL UNDER DAYLIGHTING ZONES. LIGHTS THAT PARTIALLY FALL UNDER DAYLIGHT ZONES SHALL BE INCLUDED IN THAT PARTICULAR DAYLIGHT ZONE. PROVIDE MULTIPLE DRIVERS FOR LINEAR FIXTURES AS NEEDED TO SATISFY DAYLIGHT AND GENERAL ZONES AS INDICATED ON PLANS.
K. EGRESS LIGHTING
   a. EGRESS LUMINAIRES SHALL MIMIC THE BEHAVIOR OF SIMILAR LUMINAIRES WITHIN THE SAME SPACE WHEN NORMAL POWER IS PRESENT.
   b. EGRESS LUMINAIRES SHALL BE CONTROLLED BY A UL924 LISTED DEVICE SUCH THAT WHEN NORMAL POWER IS NOT PRESENT OR FIRE ALARM ACTIVATION, EGRESS LUMINAIRES WILL TURN ON TO FULL OUTPUT, UNLESS OTHERWISE NOTED.
   c. PROVIDE ADDITIONAL LIGHTING CONTROL ZONES AS NECESSARY TO MEET THE EGRESS LIGHTING CONTROL REQUIREMENTS INDICATED.
   d. FOR EMERGENCY LUMINAIRES CONTROLLED BY A LIGHTING CONTROL PANEL, PROVIDE A BARRIER THAT SEPARATES EMERGENCY POWER FROM NORMAL POWER.
L. DEMAND RESPONSE
   a. ALL LIGHTING AND LIGHTING OCCUPANCY SENSORS TO BE INTEGRATED INTO BMS SYSTEM AND BE CAPABLE OF DEMAND RESPONSE. CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL CONDUIT AND ANCILLARY DEVICES FOR A FULLY FUNCTIONAL SYSTEM.

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CITY OF Vancouver WASHINGTON

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PEARSON FIELD
101 EAST RESERVE ST.
VANCOUVER, WA 98661

DRAWING TITLE:
BASIS OF DESIGN AND LUMINAIRE SCHEDULE

DRAWN BY: Author
CHECKED BY: Checker

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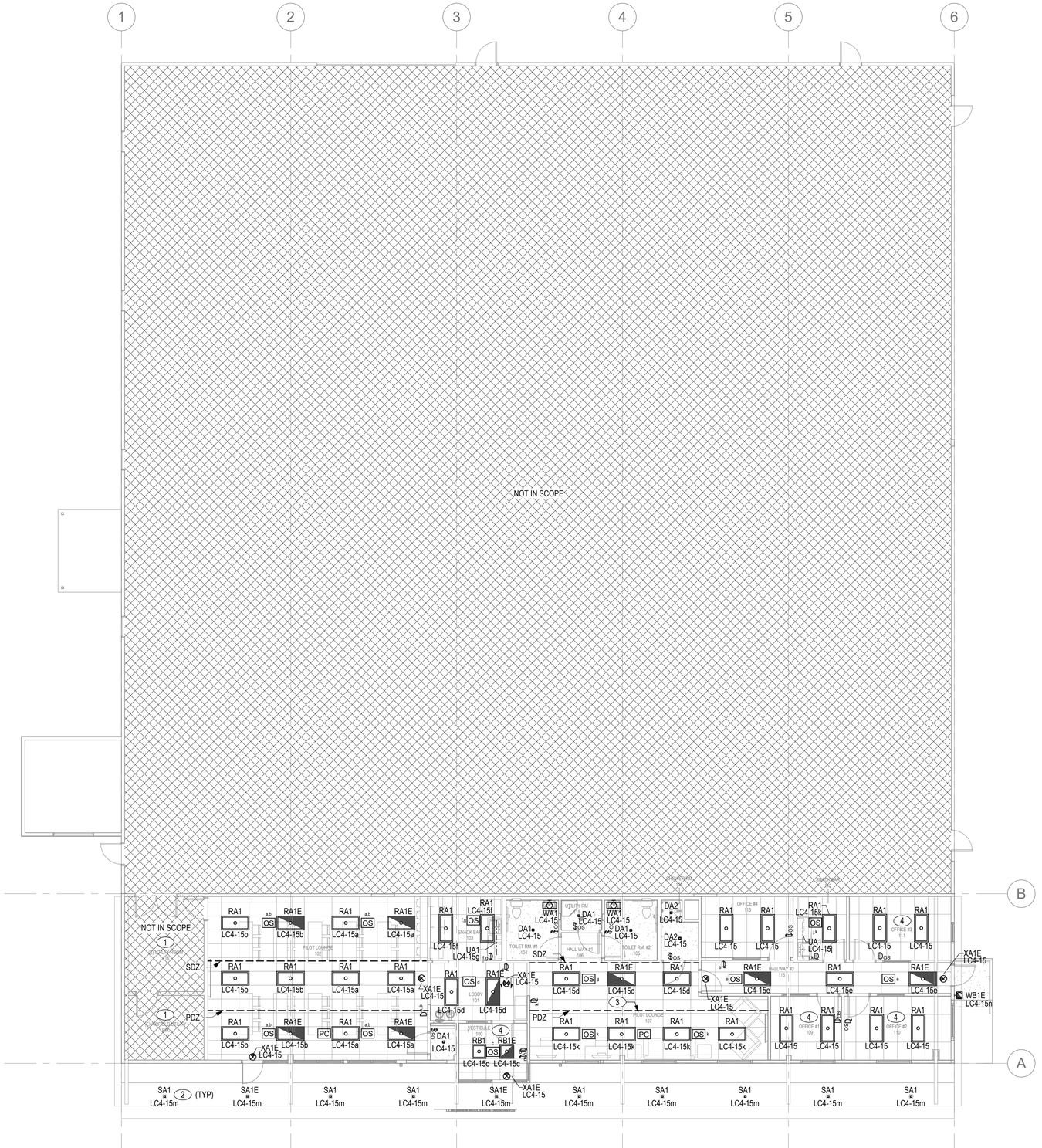

SHEET NOTES

A. COORDINATE ALL LIGHTING FIXTURE EXACT LOCATIONS, DIMENSIONS, AND MOUNTING HEIGHTS WITH ARCHITECTURAL DRAWINGS AND ALL SYSTEMS, SUCH AS DUCTWORK AND PIPING. INFORM GLUMAC OF CONFLICTS.
B. CONFIRM CEILING TYPES WITH ARCHITECT IN ALL SPACES AND USE THE APPROPRIATE WIRING METHOD FOR EACH TYPE. DO NOT LOCATE ANY JUNCTION BOXES ON HARD-LID CEILINGS; ALL WIRING MUST BE ACCESSIBLE THROUGH LUMINAIRE ONLY IN DAISY-CHAIN METHOD. JUNCTION BOXES MAY BE LOCATED ABOVE ACCESS DOORS IF FEASIBLE. ENSURE ALL JUNCTION BOXES ARE ACCESSIBLE AFTER OTHER TRADES' WORK IS COMPLETED.
C. CIRCUIT SIZES ARE NOT SHOWN ON THE PLANS. USE CIRCUIT SIZES INDICATED IN NOTES OR RESPECTIVE SCHEDULES.
D. ALL LOW VOLTAGE CABLING TO LUMINAIRES AND CONTROL DEVICES SHALL BE PLENUM RATED.
E. EXIT SIGNS SHALL BE INTERNALLY ILLUMINATED AT ALL TIMES AND FURNISHED WITH AN INTEGRAL EMERGENCY BATTERY SOURCE FOR A MINIMUM OF 90 MINUTES AFTER LOSS OF NORMAL POWER.
F. CONTRACTOR SHALL CONFIRM ALL EXIT SIGN LOCATIONS, MOUNTING REQUIREMENTS, AND DIRECTIONAL CHEVRONS WITH THE ARCHITECTURAL LIFE SAFETY PLANS AND REFLECTED CEILING PLANS. CONFIRM FINAL LOCATIONS WITH ON-SITE INSPECTOR AND AHJ.
G. ENSURE LIGHTING CONTROL DEVICES ARE NOT LOCATED BEHIND DOOR SWINGS. WHERE POSSIBLE, LOCATE LIGHTING CONTROL DEVICES NEAR THERMOSTATS. VERIFY FINAL LOCATIONS WITH ARCHITECT PRIOR TO ROUGH-IN.
H. PHOTOCELL CONTROL ZONES TO BE <2500 SQFT.

KEYED NOTES (#)

1 EXISTING ROOM LIGHTING AND CONTROLS TO REMAIN.
2 CONNECT ALL EXTERIOR FIXTURES TO ASTRONOMICAL TIMECLOCK FOR AUTOMATIC-ON BETWEEN DUSK AND MIDNIGHT. CONTROLS OVERRIDE (120 MINUTES) LOCATED AT ENTRY VESTIBULE.
3 OPEN OFFICE OCCUPANCY CONTROL ZONE IS 307 SQFT (<600).
4 SIDELIT DAYLIGHT ZONE CONTAINS LESS THAT 75W IN ITS PRIMARY ZONE AND EXEMPT FROM DAYLIGHT RESPONSE PER WSEC C405.2.5.

1 **FLOOR PLAN - LIGHTING**
SCALE: 1/8" = 1'-0"

1/8" = 1'-0"
0 8' - 0" 16' - 0" 24' - 0" 32' - 0"

7/18/25	60% OWNER REVIEW
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LIN DONG LI — STATE OF WASHINGTON — 24379 — REGISTERED PROFESSIONAL ENGINEER

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DRAWING TITLE:
FLOOR PLAN - LIGHTING

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PLUMBING BASIS OF DESIGN

A. THIS IS PROJECT IS A PARTIAL REMODEL OF THE SINGLE STORY PILOT LOUNGE AT PEARSON FIELD IN VANCOUVER, WA. EXISTING FIXTURES IN RESTROOMS, BREAK ROOMS, AND ELSEWHERE INDICATED ON PLAN WILL BE DEMOLISHED. NEW PLUMBING FIXTURES WILL BE INSTALLED IN NEW LOCATIONS TO MATCH ARCHITECTURAL CHANGES. WATER HEATER IS NEAR END OF LIFE AND WILL BE REPLACED.
B. CODES AND STANDARDS (LATEST EDITIONS UNLESS OTHERWISE REQUIRED BY AHJ)
   1. AMERICANS WITH DISABILITIES ACT (ADA)
   2. WASHINGTON BUILDING CODES ENFORCED BY THE AUTHORITY HAVING JURISDICTION (AHJ):
      a. 2021 INTERNATIONAL BUILDING CODE (IBC) WITH STATE AND LOCAL AMENDMENTS.
      b. 2021 UNIFORM PLUMBING CODE (UPC) WITH STATE AND LOCAL AMENDMENTS.
      c. 2021 NATIONAL FUEL GAS CODE (NFGC) NFPA 54, WAC 51-52
      d. 2021 WASHINGTON STATE ENERGY CODE (WAC 51-11, WSEC)
C. WATER SUPPLY:
   1. WATER SERVICE AND METER SIZE TO BE VALIDATED BY CONTRACTOR PRIOR TO WORK. ASSUMED WATER PRESSURE IS 50 PSI. FIXTURES APPEAR TO BE OPERATIONAL IN CURRENT CONDITION BUT NEAR END OF LIFE AND NOT FOR REUSE. REMODEL WILL RESULT IN A NET REDUCTION OF 5 WATER SUPPLY FIXTURE UNITS.
      A. DEMO SCOPE: (2) LAVATORIES, (1) URINAL, (4) WATER CLOSETS, (1) DRINKING FOUNTAIN, (1) SHOWER, (1) KITCHEN SINK, AND (1) WALL HYDRANT
      B. NEW SCOPE: (2) LAVATORIES, (2) WATER CLOSETS, (2) KITCHEN SINKS, (1) SHOWER, AND (1) WALL HYDRANT, AND (1) DRINKING FOUNTAIN
D. DOMESTIC HOT WATER:
   1. WATER HEATER SET POINT: 140° F
   2. MASTER MIXING VALVE SET POINT: 120° F
   3. POINT-OF-USE LAVATORY AND HAND WASHING MIXING VALVES: 110° F
   4. RECIRC PUMP:
      - TIMER: SET TO "ON" DURING OCCUPIED HOURS
      - IF TIMER "ON" AND RETURN TEMP <95°F: PUMP "ON"
      - IF TIMER "ON" AND RETURN TEMP >104°F: PUMP "OFF"
   5. DOMESTIC SHOWER DEMAND PERIOD: 2 HOURS BETWEEN 6 AM AND 8 AM.
      a. DEMAND PERIOD FOR PEAK SHOWER WATER USAGE: 5 MINUTES PER SHOWER AND 4 SHOWERS PER HOUR OR 20 MINUTES PER HOUR PER SHOWER COMPARTMENT.
E. SANITARY SEWER:
   1. BUILDING SEWER SIZE AND LOCATION IS UNKNOWN. CONTRACTOR SHALL FIELD VERIFY LOCATIONS OF SERVICES UNDER SLAB. FIXTURES APPEAR TO BE OPERATIONAL IN CURRENT CONDITION BUT NEAR END OF LIFE AND NOT FOR REUSE. REMODEL WILL RESULT IN A NET REDUCTION OF 3.5 DRAINAGE FIXTURE UNITS.
   2. SLOPE: NEW PIPE SHALL BE 2% UNLESS OTHERWISE NOTED
F. GREASE WASTE:
   1. NO GREASE WASTE SCOPE
G. STORM DRAIN:
   1. NO STORM DRAIN SCOPE
H. NATURAL GAS SERVICE:
   1. NO NATURAL GAS SCOPE
I. IRRIGATION:
   1. NO NATURAL GAS SCOPE
J. SEISMIC:
   1. ANCHORAGE AND RESTRAINTS MUST BE COORDINATED WITH STRUCTURAL ENGINEER AND AUTHORITY HAVING JURISDICTION.

GENERAL NOTES

A. PROVIDE ALL MATERIALS AND EQUIPMENT AND PERFORM ALL LABOR REQUIRED TO INSTALL COMPLETE AND OPERABLE PLUMBING SYSTEMS AS INDICATED ON THE DRAWINGS, AS SPECIFIED AND AS REQUIRED BY CODE.
B. RUN ALL SOIL WASTE AND VENT PIPING WITH 2% MINIMUM GRADE UNLESS OTHERWISE NOTED. HORIZONTAL BURIED VENT PIPING SHALL BE GRADED TO DRIP BACK TO THE SOIL OR WASTE PIPE BY GRAVITY.
C. ELEVATIONS AS SHOWN ON THE DRAWINGS ARE TO THE CENTERLINE OF ALL PRESSURE PIPING AND TO THE INVERT OF ALL GRAVITY PIPING.
D. ADJUST SEWER INVERTS TO KEEP TOPS OF PIPE IN LINE WHERE PIPE SIZE CHANGES.
E. PROVIDE SHUTOFF VALVES IN ALL DOMESTIC WATER PIPING SYSTEM BRANCHES IN WHICH BRANCH PIPING SERVES HOSEBIBS AND/OR TWO OR MORE FIXTURES.
F. UNLESS OTHERWISE NOTED, ALL PIPING IS OVERHEAD, TIGHT TO UNDERSIDE OF SLAB, WITH SPACE FOR INSULATION IF REQUIRED.
G. INSTALL PIPING SO THAT ALL VALVES, STRAINERS, UNIONS, TRAPS, FLANGES, AND OTHER APPURTENANCES REQUIRING ACCESS ARE ACCESSIBLE.
H. WHERE DOMESTIC COLD AND HOT WATER PIPING DROPS INTO A PIPE CHASE, THE SIZE SHOWN FOR THE PIPE DROPS SHALL BE USED TO THE LAST FIXTURE.
I. INSTALL ALL PIPING WITHOUT FORCING OR SPRINGING.
J. ALL PIPING SHALL CLEAR DOORS AND WINDOWS.
K. ALL PIPING SHALL GRADE TO LOW POINTS. PROVIDE HOSE END DRAIN VALVES AT THE BOTTOM OF ALL RISERS AND LOW POINTS.
L. UNIONS AND/OR FLANGES SHALL BE INSTALLED AT EACH PIECE OF EQUIPMENT, IN BYPASSES, AND IN LONG PIPING RUNS (100 FEET OR MORE) TO PERMIT DISASSEMBLY FOR ALTERATION AND REPAIRS.
M. ALL VALVES SHALL BE ADJUSTED FOR SMOOTH AND EASY OPERATION.
N. ALL VALVES (EXCEPT CONTROL VALVES) AND STRAINERS SHALL BE FULL SIZE OF PIPE BEFORE REDUCING SIZE TO MAKE CONNECTIONS TO EQUIPMENT AND CONTROLS.
O. PROVIDE ALL PLUMBING FIXTURES AND EQUIPMENT WITH ACCESSIBLE STOPS.
P. UNLESS OTHERWISE NOTED, DRAINS SHALL BE INSTALLED AT THE LOW POINT OF ROOFS, AREAWAYS, FLOORS, ETC.
Q. PROVIDE CLEANOUTS IN SANITARY AT ENDS OF RUNS, AT CHANGES IN DIRECTION, NEAR THE BASE OF STACKS, EVERY 100 FEET IN HORIZONTAL RUNS AND ELSEWHERE AS INDICATED.
R. ALL CLEANOUTS SHALL BE FULL SIZE OF PIPE FOR PIPE SIZES 4 INCHES AND SMALLER AND SHALL BE 4 INCHES FOR PIPE SIZES LARGER THAN 6 INCHES.
S. ALL BALANCING VALVES SHALL BE PROVIDED WITH POSITION INDICATORS AND MAXIMUM ADJUSTABLE STOPS (MEMORY STOPS).
T. ALL VALVES SHALL BE INSTALLED SO THAT VALVE REMAINS IN SERVICE WHEN EQUIPMENT OR PIPING ON EQUIPMENT SIDE OF VALVE IS REMOVED.
U. ALL PIPING WORK SHALL BE COORDINATED WITH ALL TRADES INVOLVED. OFFSETS IN PIPING AROUND OBSTRUCTIONS SHALL BE PROVIDED AT NO ADDITIONAL COST TO THE OWNER.
V. PROVIDE FLEXIBLE CONNECTIONS IN ALL PIPING SYSTEMS CONNECTED TO PUMPS AND OTHER EQUIPMENT WHICH REQUIRE VIBRATION ISOLATION. FLEXIBLE CONNECTIONS SHALL BE PROVIDED AS CLOSE TO THE EQUIPMENT AS POSSIBLE OR AS INDICATED ON THE DRAWINGS.

ABBREVIATIONS

(N)	NEW
(E)	EXISTING TO REMAIN
(D)	EXISTING TO BE REMOVED
(ER)	EXISTING TO BE RELOCATED
(RL)	NEW LOCATION OF RELOCATED ITEM
(F)	FUTURE
ABV	ABOVE
AD	ACCESS DOOR
ADA	AMERICANS WITH DISABILITIES ACT
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AP	ACCESS PANEL
ARCH	ARCHITECT
ASR	AUTO FIRE SPRINKLER RISER
BAS	BUILDING AUTOMATION SYSTEM
BFV	BUTTERFLY VALVE
BHP	BRAKE HORSEPOWER
BTU	BRITISH THERMAL UNIT
BV	BALL VALVE
BWV	BACKWATER VALVE
CA	COMPRESSED AIR
CD	CONDENSATE DRAIN
CR	STEAM CONDENSATE RETURN
CFF	CAP FOR FUTURE
CFH	CUBIC FEET PER HOUR
CFM	CUBIC FEET PER MINUTE
CFS	CUBIC FEET PER SECOND
CI	CAST IRON
CLG	CEILING
CO	CLEANOUT
CONC	CONCRETE
CV	CHECK VALVE
CW	DOMESTIC COLD WATER
CWFU	COLD WATER FIXTURE UNIT
DN	DOWN
DCVA	DOUBLE CHECK VALVE ASSEMBLY
DDCVA	DOUBLE DETECTOR CHECK VALVE ASSEMBLY
DFU	DRAINAGE FIXTURE UNIT
DIA	DIAMETER
DSN	DOWNSPOUT NOZZLE
DWG	DRAWING
DWV	DRAINAGE WASTE AND VENT
ELEC	ELECTRICAL
FA	FLOW ALARM
FC	FLEXIBLE CONNECTION
FCO	FLOOR CLEANOUT
FDV	FIRE DEPARTMENT VALVE
FDVC	FIRE DEPARTMENT VALVE CABINET
FFA/FFB	FROM FLOOR ABOVE/BELOW
FFE	FINISHED FLOOR ELEVATION
FH	FIRE HYDRANT
FHV	FIRE HOSE VALVE
FIN	FINISHED
FO	FUEL OIL
FPS	FEET PER SECOND
FT	FEET
FT	FLUSH TANK
FU	FIXTURE UNIT
FV	FLUSH VALVE
G	GAS
GAL	GALLONS
GC	GAS COCK
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
GV	GATE VALVE
HD	HUB DRAIN
HP	HORSEPOWER
HW	DOMESTIC HOT WATER
HWR	DOMESTIC HOT WATER RECIRCULATION
HWFU	HOT WATER FIXTURE UNIT
IAPMO	INTERNATIONAL ASSOCIATION OF PLUMBING AND MECHANICAL OFFICIALS
ICBO	INTERNATIONAL CONFERENCE OF BUILDING OFFICIALS
IE	INVERT ELEVATION
IRR	IRRIGATION
LAV	LAVATORY
LBS	POUNDS (UNIT OF FORCE)
MAX	MAXIMUM
MBH	THOUSANDS BTU/HR
MECH	MECHANICAL
MFR	MANUFACTURER
MIN	MINIMUM
MH	MANHOLE
NC	NORMALLY CLOSED
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
NO	NORMALLY OPEN OR NUMBER
NIC	NOT IN CONTRACT
OFCI	OWNER FURNISHED CONTRACTOR INSTALLED
OW	OIL WASTE
POC	POINT OF CONNECTION
POD	POINT OF DISCONNECTION
PRV	PRESSURE REDUCING VALVE
PS	PRESSURE SWITCH
PSI	POUNDS PER SQUARE INCH
RI&C	ROUGH IN AND CONNECT
R	RISE, RISER
RP	REDUCED-PRESSURE PRINCIPLE BACKFLOW PREVENTION ASSEMBLY
RPM	REVOLUTIONS PER MINUTE
SD	STORM DRAIN
SF	SQUARE FEET
SHWR	SOLAR HOT WATER RETURN
SHWS	SOLAR HOT WATER SUPPLY
SOV	SHUT-OFF VALVE
SPK	SPRINKLER
SS	SANITARY SEWER
TFA/TFB	TO FLOOR ABOVE/BELOW
TP	TRAP PRIMER
TS	TAMPER SWITCH
TT	TEST TEE
TYP	TYPICAL
U/UR	URINAL
VB	VACUUM BREAKER
V	VENT
VTR	VENT THROUGH ROOF
W	WASTE
WC	WATER CLOSET
WHA	WATER HAMMER ARRESTOR
WCO	WALL CLEANOUT
W/	WITH
YB	YARD BOX

SYMBOL	DESCRIPTION
	TRAP PRIMER
	BALL VALVE
	BUTTERFLY VALVE
	GATE VALVE
	BALANCING VALVE
	SHUT OFF VALVE IN CONCRETE YARD BOX
	ANGLE GATE VALVE
	SOLENOID VALVE
	CHECK VALVE
	PRESSURE REDUCING VALVE
	MIXING VALVE
	ELECTRONIC MIXING VALVE
	SEISMIC VALVE
	PLUG VALVE / GAS COCK
	RELIEF VALVE
	VACUUM RELIEF VALVE
	PRESSURE & TEMPERATURE RELIEF VALVE
	AUTOMATIC AIR VENT
	BACKWATER VALVE
	REDUCED - PRESSURE PRINCIPLE BACKFLOW PREVENTION ASSEMBLY (RP)
	UNION
	STRAINER
	STRAINER WITH BLOW OFF HOSE BIBB
	PIPE ANCHOR
	PIPE ALIGNMENT GUIDE
	EXPANSION JOINT
	FLEXIBLE CONNECTOR
	CAP OR PLUG
	BLIND FLANGE
	CONCENTRIC REDUCER
	AQUASTAT
WHA	WATER HAMMER ARRESTOR
PG	PRESSURE GAUGE WITH COCK
T	THERMOMETER
CO/WCO	CLEANOUT / WALL CLEANOUT
FCO/COTG	FLOOR CLEANOUT / CLEANOUT TO GRADE
YCO/COTG	YARD CLEANOUT / CLEANOUT TO GRADE
TT	TEST TEE
WH	WALL HYDRANT
HB	HOSE BIBB
	ROOF HYDRANT
YH	YARD HYDRANT
	THRUST BLOCK
FD	FLOOR DRAIN
FS	FLOOR SINK W/ GRATE AS SHOWN
	HUB DRAIN
	ROOF RECEPTOR
	STORM DRAIN
	OVERFLOW DRAIN
	DOWN SPOUT NOZZLE
M	SUB-METER

NOTE: NOT ALL SYMBOLS OR ABBREVIATIONS ARE APPLICABLE TO THIS PROJECT. REFER TO DETAILS AND NOTES FOR MOUNTING HEIGHTS.

SYMBOL	DESCRIPTION
1% SLOPE	DIRECTION OF SLOPE
	DIRECTION OF FLOW
	PIPE UP OR UP & DN
	PIPE DOWN
	PIPE DROP
	TOP CONNECTION - BRANCH LINE
	BOTTOM CONNECTION - BRANCH LINE
	COLD WATER
FW	FLUSH WATER
	HOT WATER
	HOT WATER RECIRCULATION
140	HOT WATER (140°F)
	VENT
	PIPING BELOW GRADE OR FLOOR
	PIPING ABOVE GRADE OR FLOOR
SS	SANITARY SEWER, WASTE OR SOIL
SD	STORM DRAIN, RAINWATER DRAIN PIPING
OD	OVERFLOW STORM DRAIN PIPING
PD	PUMPED DISCHARGE
PS	PUMPED STORM
D	DRAIN LINE
IW	INDIRECT WASTE
GW	GREASE WASTE
GRW	GREY WATER WASTE
G	NATURAL GAS (7"W.C.)
MG	MEDIUM PRESSURE GAS (2 PSIG TO 5 PSIG)
LG	LOW PRESSURE GAS
CA	COMPRESSED AIR
TW	TEMPERED WATER
TWR	TEMPERED WATER RETURN
6"	PIPE SIZE (DIAMETER IN INCHES)

GENERAL SYMBOLS

SYMBOL	DESCRIPTION
(E)	EXISTING WORK TO REMAIN
(D)	EXISTING TO BE REMOVED
(ER)	EXISTING TO BE RELOCATED
(RL)	NEW LOCATION OF RELOCATED ITEM
(F)	FUTURE
	CENTER LINE
	POINT OF CONNECTION OR POINT OF DISCONNECTION
SS	SANITARY SEWER STACK
V	VENT STACKS
CW	COLD WATER RISER
HW	HOT WATER RISER
HWC	HOT WATER RECIRC. RISER
G	GAS RISER
SD	STORM DRAIN RISER
OD	OVERFLOW DRAIN RISER
CA	COMPRESSED AIR RISER
XX / X	PLUMBING EQUIPMENT
#	KEYED NOTE
1 / P2	DETAIL NO. SHEET NO.
#	POUNDS OR NUMBER
A / P-1	SECTION A, DRAWING P-1
XXX	EQUIPMENT BY OTHERS (KITCHEN)

PLUMBING DRAWING LIST

SHEET NUMBER	SHEET NAME	60% CD	90% CD	PERMIT	IFC
P0.00	PLUMBING LEGEND AND ABBREVIATIONS	X	X	X	X
P0.02	SCHEDULES	X	X	X	X
PD2.01	DEMO FLOOR PLAN - PLUMBING	X	X	X	X
P2.00	UNDERGROUND PLAN - PLUMBING			X	X
P2.01	FLOOR PLAN - PLUMBING	X	X	X	X
P6.01	ENLARGED PLANS	X	X	X	X
Grand total: 6					

DEFERRED SUBMITTALS

1. SEISMIC BRACING FOR MECHANICAL AND PLUMBING SYSTEMS, INCLUDING EQUIPMENT, PIPING, AND DUCTWORK.
2. PIPE SYSTEM CERTIFICATION AND ANALYSIS:
   A. DESIGN: DESIGN AND CALCULATE REQUIREMENTS FOR THERMAL EXPANSION OF PIPING SYSTEMS AND FOR SELECTING AND DESIGNING EXPANSION JOINTS AND LOOPS.
   B. ANCHOR DETAILS: DETAIL FABRICATION OF EACH ANCHOR. SHOW DIMENSIONS AND METHODS OF ASSEMBLY AND ATTACHMENT TO BUILDING STRUCTURE. SUPPORTS, ANCHORS, AND GUIDES SHALL BE DESIGNED FOR COMBINED GRAVITY, SEISMIC, PRESSURE, AND THERMAL LOADS.
   C. ALIGNMENTS GUIDE DETAILS: DETAIL FIELD ASSEMBLY AND ATTACHMENT TO BUILDING STRUCTURE.
   D. SCHEDULE: EACH EXPANSION JOINT SHALL BE SCHEDULE WITH MANUFACTURER, TYPE, MATERIAL, SIZE, PRESSURE RATING, END CONNECTIONS, AND LOCATION.
   E. FULLY COORDINATE WITH DESIGN OF SEISMIC RESTRAINT AND ANCHORAGE.

*FOR ALL ITEMS LISTED ABOVE, THE PLUMBING AND/OR MECHANICAL CONTRACTOR SHALL PROVIDE A DELEGATED DESIGN SUBMITTAL WITH DOCUMENTATION AND ENGINEERING REQUIRED TO SATISFY REQUIREMENTS OF THE AUTHORITY HAVING JURISDICTION (AHJ). THE DELEGATED DESIGN SUBMITTAL SHALL INCLUDE BUT NOT BE LIMITED TO ANALYSIS DATA SIGNED AND SEALED BY A QUALIFIED PROFESSIONAL ENGINEER RESPONSIBLE FOR THEIR PREPARATION.

DISINFECTION PROCEDURE

DISINFECTION OF POTABLE WATER DISTRIBUTION SYSTEM SHALL BE AS PRESCRIBED BY THE LOCAL HEALTH AUTHORITY OR THE FOLLOWING MINIMUM REQUIREMENT.

INITIAL COLIFORM SAMPLE IS REQUIRED PRIOR TO ADMINISTERING WATER-CHLORINE SOLUTION. AFTER PRESSURE TESTS HAVE BEEN MADE THOROUGHLY FLUSH THE ENTIRE DOMESTIC WATER DISTRIBUTION SYSTEM WITH WATER UNTIL ALL ENTRAINED DIRT AND MUD HAVE BEEN REMOVED AND STERILIZE BY CHLORINATING MATERIAL. THE CHLORINATING MATERIAL SHALL BE LIQUID CHLORINE. THE CHLORINATING MATERIAL SHALL PROVIDE A DOSAGE OF NOT LESS THAN 50 PARTS PER MILLION AND SHALL BE INTRODUCED INTO THE SYSTEM OR PART THEREOF IN AN APPROVED MANNER. RETAIN THE TREATED WATER IN THE PIPE FOR 24 HOURS, OR, FILL THE SYSTEM OR PART THEREOF WITH A WATER-CHLORINE SOLUTION CONTAINING AT LEAST 200 PARTS PER MILLION OF CHLORINE AND ALLOW TO STAND FOR THREE (3) HOURS. OPEN AND CLOSE ALL VALVES IN THE SYSTEM BEING DISINFECTED THREE TIMES DURING THE CONTACT PERIOD. THEN FLUSH THE SYSTEM WITH CLEAN POTABLE WATER UNTIL THE RESIDUAL CHLORINE IS REDUCED TO LESS THAN 1.0 PPM. DURING THE FLUSHING PERIOD OPEN AND CLOSE ALL VALVES AND FAUCETS THREE TIMES. FROM AT LEAST THREE DIVERGENT POINTS IN THE SYSTEM, TAKE SAMPLES OF WATER IN PROPERLY STERILIZED CONTAINERS FOR BACTERIAL EXAMINATION. 48 HOUR WAITING PERIOD MUST BE OBSERVED PRIOR TO BACTERIOLOGICAL TEST.

BACTERIOLOGICAL TEST SHALL BE CONDUCTED BY A LABORATORY CERTIFIED FOR DRINKING WATER IN WASHINGTON STATE AFFIRMING WATER QUALITY CONTAINS NO COLIFORM BY SAMPLE TESTING THE FURTHEST FIXTURE FROM PUBLIC WATER SOURCE AND NOT LESS THAN TWO OTHER LOCATIONS PART OF THE WATER SUPPLY SYSTEM. REPEAT THE DISINFECTING UNTIL TESTS INDICATE THAT SATISFACTORY BACTERIOLOGICAL RESULTS HAVE BEEN OBTAINED. CHLORINE LEVEL IN THE NEW OR REPAIRED WATER SUPPLY SYSTEM SHALL NOT BE LESS THAN THE MEAN AVERAGE OF THE AREA IN RELATIONSHIP FROM THE WATER PURVEYOR SOURCE.

TAKING OF SAMPLES SHALL BE WITNESSED BY OWNER'S REPRESENTATIVE. WRITTEN REPORTS SHALL BE SUPPLIED TO OWNER'S REPRESENTATIVE FOR APPROVAL.

7/18/25	60% OWNER REVIEW
8/27/25	90% OWNER REVIEW
9/12/25	ISSUE FOR PERMIT
11/18/25	ISSUE FOR CONSTRUCTION

NEIL LESTER — STATE OF WASHINGTON — 27060 — REGISTERED PROFESSIONAL ENGINEER

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DRAWING TITLE:
PLUMBING LEGEND AND ABBREVIATIONS
DRAWN BY: Author
CHECKED BY: Checker

P0.00

ISSUE FOR CONSTRUCTION

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GENERAL REQUIREMENTS

1. WATER HEATER EQUIPMENT PERFORMANCE AT SPECIFIED RATING CONDITIONS SHALL NOT BE LESS THAN AS INDICATED IN SECTION C404.2 OF THE WSEC AND AS INDICATED ON THE CONTRACT DOCUMENTS.
2. MOTOR FULL-LOAD EFFICIENCY SHALL NOT BE LESS THAN AS INDICATED IN SECTION C405.8
3. RECIRCULATION PUMPS SHALL BE ECM TYPE PER SECTION C404.7.1

WATER SYSTEMS

1. DOMESTIC HOT WATER AND HOT WATER CIRCULATING PIPING SHALL BE SIZED IN CONFORMANCE WITH SECTION C404.3.
2. HEAT TRAPS FOR HOT WATER STORAGE TANKS SHALL BE INSTALLED PER SECTION 404.4.
3. WATER HEATERS INSTALLED ON UNCONDITIONED SPACES OR CONCRETE FLOORS SHALL BE INSTALLED ON AN INSULATED SURFACE WITH MINIMUM RESISTANCE OF R-10 PER SECTION C404.5
4. PIPING SHALL BE INSULATED AS REQUIRED BY SECTIONS C404.6, C404.7.3.1,AND TABLE C403.10.3 (SUMMARIZED BELOW)

SYSTEM TEMP (F)	CONDUCTIVITY BTU • IN./ (H • FT2 • °F)	PIPE DIAMETER				
		< 1.0"	1.0" - 1.25"	1.5" - 3"	4" - 6"	≥ 6"
		INSULATION THICKNESS (IN.)				
141 - 200	0.25 - 0.29	2.5	2.5	3.0	3.0	3.0
105 - 140	0.21 - 0.28	2.0	2.0	2.5	2.5	2.5
40 - 60	0.21 - 0.27	0.5	0.5	1.0	1.0	1.0
< 40	0.20 - 0.26	0.5	1.0	1.0	1.0	1.5

5. HOT WATER CIRCULATION SYSTEMS SHALL BE INSTALLED PER SECTION C404.7.
6. MAXIMUM DEADLEGS SHALL BE IN COMPLIANCE WITH TABLE C404.3.1 (SUMMARIZED BELOW)

NOMINAL PIPE SIZE (IN)	MAXIMUM PIPING LENGTH (FT)	
	PUBLIC LAVATORY FAUCETS	OTHER FIXTURES AND APPLIANCES
3/8	3	50
1/2	8	43
5/8	8	32
3/4	0.5	21
7/8	0.5	16

CONTROLS

1. RECIRC PUMP SHALL:
   A. START UPON SENSING FLOW IN THE HOT WATER SYSTEM, AND
   B. LIMIT RETURN WATER TO 104F PER SECTION C404.8

COMMISSIONING

1. FUNCTIONAL TESTING REQUIRED PER SECTIONS C408.1 AND C408.3
   A. PERFORMANCE TESTING SHALL DEMONSTRATE THAT THE DOMESTIC HOT WATER HEATING SYSTEM IS INSTALLED PER THE CONTRACT DOCUMENTS
   B. TESTING SHALL BE CONDUCTED UNDER AT LEAST 50% LOAD AND UNDER THE FOLLOWING CONDITIONS:
      a. NORMAL OPERATION
      b. PERFORMANCE OF ALARMS
      c. MODE OF OPERATION UPON LOSS OF POWER AND RESTORATION OF POWER

PLUMBING FIXTURE SCHEDULE

TAG	FIXTURE	MANUFACTURER	MODEL	ADA (Y/N)	FLOW (GPF/GPM)	CONNECTION SIZE				ELECTRICAL			REMARKS
						W	V	HW	CW	V	PH	A	
EWC-1	ELECTRIC WATER COOLER	ELKAY	LZWS-LRPBM28K	YES	0.133	1 1/2"	1 1/2"		1/2"	115	1	5	BARRIER FREE, FILTERED, REFRIGERATED, DOUBLE ROUND W/ BOTTLE FILLER
L-1	LAVATORY - UNDERMOUNT	AMERICAN STANDARD	0496 "OVALYN"	YES	0.5	2"	1 1/2"	1/2"	1/2"				FAUCET: CHICAGO 405-E2805-390XKAB 0.5 GPM WITH 1-099XKJKABNF R/H AND 1-100XKJKABNF L/H CARTRIDGES PROVIDE WITH LOCAL ASSE 1070 MIXING VALVE: MV-2
MS-1	MOP SINK	STERN-WILLIAMS	SBC-1700	-	2	3"	2"	3/4"	3/4"				SINK:PROVIDE WITH BP-2-24 STAINLESS STEEL BACKSPLASH, T-35 HOSE AND WALL BRACKET, AND T-40 WALL MOP HANGER FAUCET: CHICAGO 897-CRCF WITH VACUUM BREAKER AND 2.0 GPM OMNI FLOW REDUCER
OB-1	ICE MAKER OUTLET BOX	SIOUX CHIEF	696-1010MR						1/2"				QUARTER TURN VALVE WITH WATER HAMMER ARRESTOR
S-1	SINGLE BOWL SINK - ADA	ELKAY	LRADQ312260	YES	1	2"	2"	3/4"	3/4"				SINK: 31"X22"X6" 3-HOLE SINGLE BOWL DROP-IN SINK FAUCET:CHICAGO 231-ABCP FAUCET WITH CHICAGO 230-105KJKCP DECK PLATE - PROVIDE WITH OMNI 1.0 GPM AERATOR PROVIDE WITH: CHICAGO 2300-XJKABNF CARTRIDGE
SH-1	SHOWER - FULL ENCLOSURE - ADA	AQUATICBATH	1363BFRF	YES	1.5	2"	1 1/2"	3/4"	3/4"				FAUCET:MOEN 8342EP15 DRAIN:SIOUX CHIEF 827-2B PROVIDE WITH: SEAT AND BARS
TP-1	TRAP PRIMER	MIFAB	M-500						1/2"				PRESSURE ACTIVATED TRAP PRIMER
WC-1	WATER CLOSET, FLOOR MOUNT, TANK - ADA	KOHLER	HIGHLINE K-3989	YES	1.1	4"	2"		3/4"				SEAT: BEMIS 1655SSCT TRIP LEVER ON APPROACH SIDE
WH-1	WALL HYDRANT	WOODFORD	B67		0				3/4"				
DRAINS													
FD-1	FLOOR DRAIN - FINISHED	JR SMITH	2010-A-02			2"							ENAMEL COATED CAST IRON BODY WITH FLANGE, INTEGRAL REVERSIBLE CLAMPING COLLAR, SEEPAGE OPENINGS, ADJUSTABLE ROUND SATIN NICKEL BRONZE STRAINER, SEDIMENT BUCKET, BOTTOM OUTLET, CAULK INSIDE OR TY SEAL OR NO-HUB JOINT. PROVIDE TRAP PRIMER.

NOTES:

A. COMPLY WITH ALL MANUFACTURER INSTALLATION REQUIRMENTS TO PROVIDE COMPLETE AND OPERATIONAL FIXTURES.
B. PROVIDE TRANSITION FITTING AS REQUIRED TO CONNECT TO BRANCH PIPING, WHICH MAY BE A DIFFERENT SIZE, AND AS SHOWN ON DRAWINGS.
C. PROVIDE STOP VALVES, BACKFLOW PREVENTERS AND SUPPORTS AS REQUIRED BY THE MANUFACTURER AND PLUMBING CODE.
D. COORDINATE WITH ELECTRICAL DESIGN FOR POWER SUPPLY AND LOCATIONS.
E. HOT WATER SHALL BE LIMITED TO ALL FIXTURES IN ACCORDANCE WITH ASSE STANDARDS: PUBLIC LAVATORIES SHALL BE LIMITED TO 110 F (ASSE 1070), SHOWERS LIMITED TO 120 F (ASSE 1016/1069)

DOMESTIC WATER HEATER SCHEDULE

TAG	#	MANUFACTURER	MODEL	LOCATION	VOL (GAL)	RECOV (GPH)	EWT (°F)	LWT (°F)	CONNECTION SIZE		ELECTRICAL				UNIT SIZE (L"xW"xH")	OPER. WT. (LBS)	NOTES
									CW (IN)	HW (IN)	KW	VOLTS	PH	FLA			
EWH	1	BRADFORD WHITE	LE350S3-3	JANITOR CLOSET	50	27	50	140	3/4"	3/4"	11	208	3	30.5	48X24X24	700	1-2

NOTES
1. COORDINATE WITH ELECTRICAL FOR POWER AND DISCONNECT AS REQUIRED.
2. TANK TYPE, ELECTRIC WATER HEATER, TWO NON-SIMULTANEOUS ELEMENTS 5500 WATTS EACH.

PLUMBING EXPANSION TANK SCHEDULE

TAG	#	MANUFACTURER	MODEL	LOCATION	TYPE	TANK VOL. (GAL)	ACCEPT. VOL. (GAL)	FILL PRESS. (PSIG)	OPER. PRESS. (PSIG)	RELIEF PRESS. (PSIG)	MIN. TEMP. (°F)	MAX. TEMP. (°F)	SYSTEM CONN. (IN)	SIZE (DIA"XH") (DIA x H IN)	OPER. WT. (LBS)	NOTES
PET	1	WATTS	DETA-5	JANITOR CLOSET	BLADDER	4	1	80	80	100	50	140	3/4"	10X14	55	1-3

NOTES
1. PROVIDE TANK RATED FOR ASME WORKING PRESSURE OF 125 PSIG.
2. PROVIDE TANK WITH VERTICAL CONFIGURATION.
3. ANCHOR TO WALL. COORDINATE WITH STRUCTURAL DESIGN

DOMESTIC RECIRCULATION PUMP SCHEDULE

TAG	#	MANUFACTURER	MODEL	LOCATION	TYPE	FLOW (GPM)	HEAD (FT WG)	RPM	CONNECTION SIZE (IN)	ON/OFF SETPOINT (°F)	ELECTRICAL				EMERG POWER (Y/N)	OPER. WT. (LBS)	NOTES
											HP	WATTS	VOLTS	PH			
CP	1	BELL & GOSSET	ECOCIRC 20-35	UTILITY & STORAGE 109	ECM	1	15	2800	3/4"	95/104	1/12	39	115	1	No	9	1-3

NOTES
1. COORDINATE WITH ELECTRICAL FOR POWER AND DISCONNECT AS REQUIRED.
2. PUMP TO CONTAIN LESS THAN 0.25% LEAD CONTENT ON WETTED SURFACE FOR DOMESTIC DISTRIBUTION.
3. MAXIMUM WORKING PRESSURE 150 PSIG AND MAXIMUM OPERATING TEMPERATURE OF 225° F.

MIXING VALVE SCHEDULE

TAG	#	MANUFACTURER	MODEL	SYSTEM SERVED	LOCATION	FLOW RATE		MAX PRESSURE DROP (PSI)	CONNECTION		OUTLET	ELECTRICAL			MOUNTING (CABINET/EXPOSED)	UNIT SIZE (L"xW"xH")	NOTES
						MIN (GPM)	MAX (GPM)		INLET (IN)	OUTLET (IN)	SETPOINT (°F)	V	PH	FLA			
MV	1	LEONARD	270-LF	BUILDING	UTILITY & STORAGE 109	0.25	5.5	10	1/2"	1/2"	120	0	0	0.0	EXPOSED	6X6X6	1-3,5
MV	2	LEONARD	170-LF	PUBLIC LAVATORIES	RESTROOMS	0.25	2.3	10	1/2"	1/2"	110	0	0	0.0	EXPOSED	6X6X6	1-4

NOTES
1. COORDINATE WITH WATER HEATER SUPPLY AND PLUMBING FIXTURE DEMANDS.
2. LOW LEAD CONTAINING LESS THAN 0.25% LEAD BY WEIGHT.
3. SELF REGULATING THERMOSTATIC MIXING VALVE TO MAINTAIN OUTLET TEMPERATURE OVER FULL RANGE OF FLOW.
4. VALVE ASSEMBLY TO BE ASSE 1070 CERTIFIED. (FOR SINKS, LAVATORIES, AND TUBS)
5. VALVE ASSEMBLY TO BE ASSE 1017 CERTIFIED. (FOR MASTER MIXING VALVE)

7/18/25	60%	OWNER REVIEW
8/27/25	90%	OWNER REVIEW
9/12/25		ISSUE FOR PERMIT
11/18/25		ISSUE FOR CONSTRUCTION

NEIL LESTER — STATE OF WASHINGTON — 37060 — REGISTERED PROFESSIONAL ENGINEER

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CITY OF Vancouver WASHINGTON

PEARSON FIELD
TERMINAL RENOVATION PROJECT
PEARSON FIELD
101 EAST RESERVE ST.
VANCOUVER, WA 98661

DRAWING TITLE:
SCHEDULES

DRAWN BY: Author
CHECKED BY: Checker

P0.02

ISSUE FOR CONSTRUCTION

FAA GRANT #3-53-0139-022-2026

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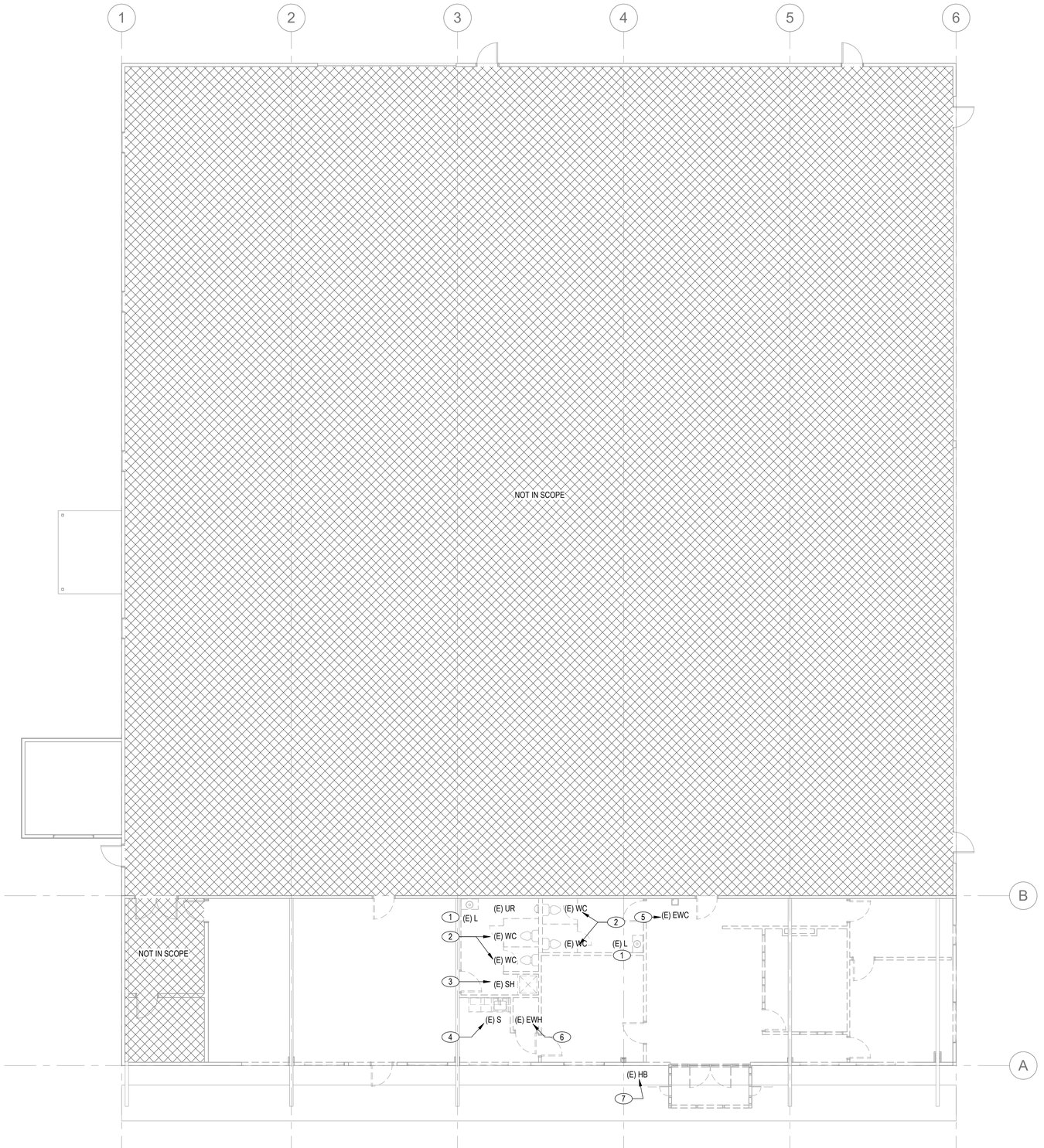

1 DEMO FLOOR PLAN - PLUMBING

SCALE: 1/8" = 1'-0"

SHEET NOTES

A. ALL EXISTING CONDITIONS MUST BE VERIFIED BY THE CONTRACTOR IN THE FIELD. REPRESENTATION ON DRAWINGS IS BASED ON THE BEST INFORMATION AVAILABLE AT THE TIME OF THEIR CREATION.
B. CONTRACTOR SHALL VISIT THE JOB SITE PRIOR TO SUBMISSION OF BID AND FIELD VERIFY ALL EXISTING CONDITIONS AND THE EXTENT OF THE DEMOLITION WORK.
C. UNLESS OTHERWISE NOTED, ALL REMOVED PIPING, FIXTURES, AND APPURTENANCES SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED FROM THE JOB SITE, UNLESS OTHERWISE DIRECTED BY OWNER.
D. THE CONTRACTOR IS RESPONSIBLE FOR ALL COORDINATION INCLUDING TEMPORARY SERVICES DURING CONSTRUCTION.
E. THE EXISTING BUILDING, INCLUDING PORTIONS OF THE RENOVATED AREA SHALL REMAIN IN SERVICE DURING THE CONSTRUCTION PHASE OF THIS PROJECT. ANY MODIFICATIONS TO THE EXISTING SYSTEMS THAT MAY REQUIRE THE TEMPORARY INTERRUPTION OF EXISTING SERVICES SHALL BE COMPLETED AFTER NORMAL WORKING HOURS. PRE-SCHEDULE ANY SERVICE INTERRUPTIONS WITH THE OWNER PRIOR TO STARTING ANY WORK.
F. UTILITY OUTAGES: NOTIFY AND OBTAIN WRITTEN APPROVAL FROM FACILITY NOT LESS THAN TEN (10) WORKING DAYS PRIOR TO A REQUIRED UTILITY OUTAGE. LOCK-OUT AND RED-TAG THE APPROPRIATE EQUIPMENT. TAG SHALL INCLUDE OUTAGE DURATION AND CONTACT INFORMATION.
G. WHERE IT IS UNFEASIBLE TO REMOVE PIPING (SUCH AS BELOW CONCRETE SLAB, EMBEDDED IN CONCRETE SLAB, OR CONCEALED IN INACCESSIBLE LOCATION), REMOVE ACCESSIBLE PIPING, THEN CUT, CAP, AND ABANDON IN PLACE AT ENTRY INTO INACCESSIBLE LOCATIONS.
H. DAMAGE TO OTHER TRADES' WORK AS A RESULT OF THIS WORK IS TO BE PROMPTLY REPAIRED AT NO EXPENSE TO THE OWNER AND TO THE COMPLETE SATISFACTION OF THE OWNER.
I. CONTRACTOR TO VERIFY LOCATIONS, SIZE, AND CONDITION OF EXISTING PIPING. PIPING ON DRAWINGS IS DIAGRAMMATIC AND MEANT TO RELAY DESIGN INTENT. EXISTING PIPING MAY VARY FROM ROUTING SHOWN ON DRAWINGS.

KEYED NOTES (#)

1 DEMOLISH EXISTING LAVATORY. DEMOLISH PIPING AND CUT, CAP, AND MAKE SAFE PIPING BACK TO MAINS.
2 DEMOLISH EXISTING WATER CLOSETS. DEMOLISH WATER CLOSET PIPING AND CUT, CAP, AND MAKE SAFE PIPING BACK TO MAINS.
3 DEMOLISH EXISTING SHOWER. DEMOLISH SHOWER PIPING AND CUT, CAP, AND MAKE SAFE PIPING BACK TO MAINS.
4 DEMOLISH EXISTING SINK. DEMOLISH SINK PIPING AND CUT, CAP, AND MAKE SAFE PIPING BACK TO MAINS.
5 DEMOLISH EXISTING ELECTRIC WATER COOLER. DEMOLISH ELECTRIC WATER COOLER PIPING AND CUT, CAP, AND MAKE SAFE PIPING BACK TO MAINS.
6 DEMOLISH EXISTING WATER HEATER. DEMOLISH WATER HEATER PIPING AND CUT, CAP, AND MAKE SAFE PIPING BACK TO MAINS.
7 DEMOLISH EXISTING HOSEBIB. CUT, CAP, AND MAKE SAFE PIPING FOR CONNECTION TO NEW HOSEBIB AT SAME LOCATION.

1/8" = 1'-0"

0 8' - 0" 16' - 0" 24' - 0" 32' - 0"

7/18/25	60% OWNER REVIEW
8/27/25	90% OWNER REVIEW
9/12/25	ISSUE FOR PERMIT
11/18/25	ISSUE FOR CONSTRUCTION

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DRAWING TITLE:
DEMO FLOOR PLAN - PLUMBING

DRAWN BY: Author
CHECKED BY: Checker

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ISSUE FOR CONSTRUCTION

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SHEET NOTES

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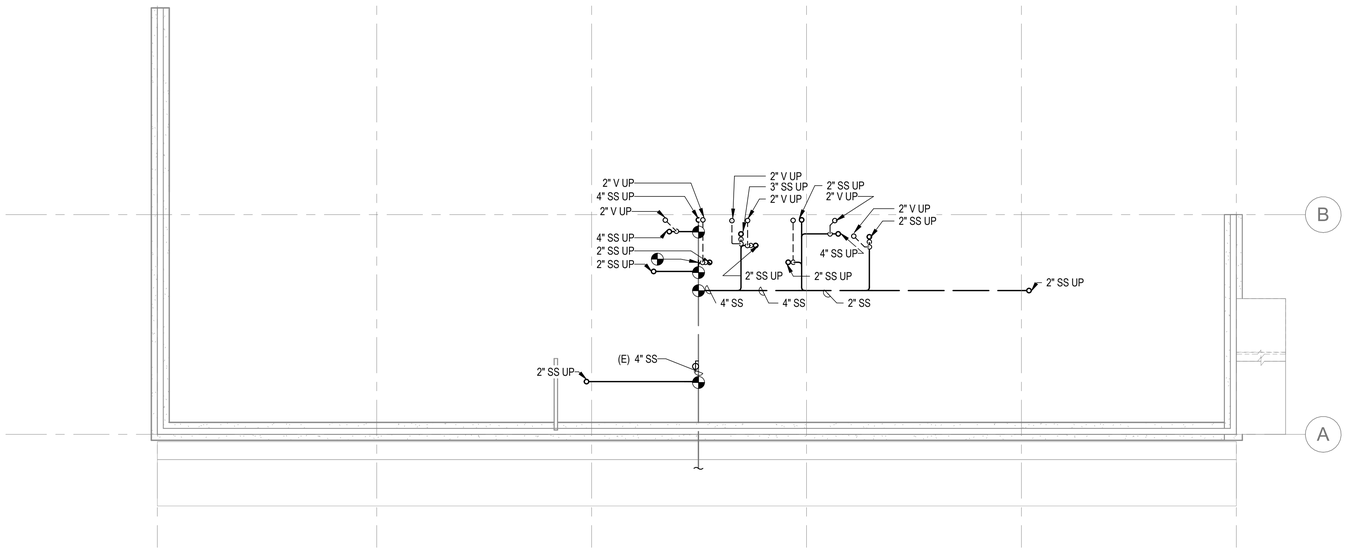

1 UNDERGROUND PLAN - PLUMBING

SCALE: 1/8" = 1'-0"

1/8" = 1'-0"
0 8' - 0" 16' - 0" 24' - 0" 32' - 0"

7/18/25	60% OWNER REVIEW
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PEARSON FIELD
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VANCOUVER, WA 98661

DRAWING TITLE:
UNDERGROUND PLAN - PLUMBING

DRAWN BY: Author
CHECKED BY: Checker

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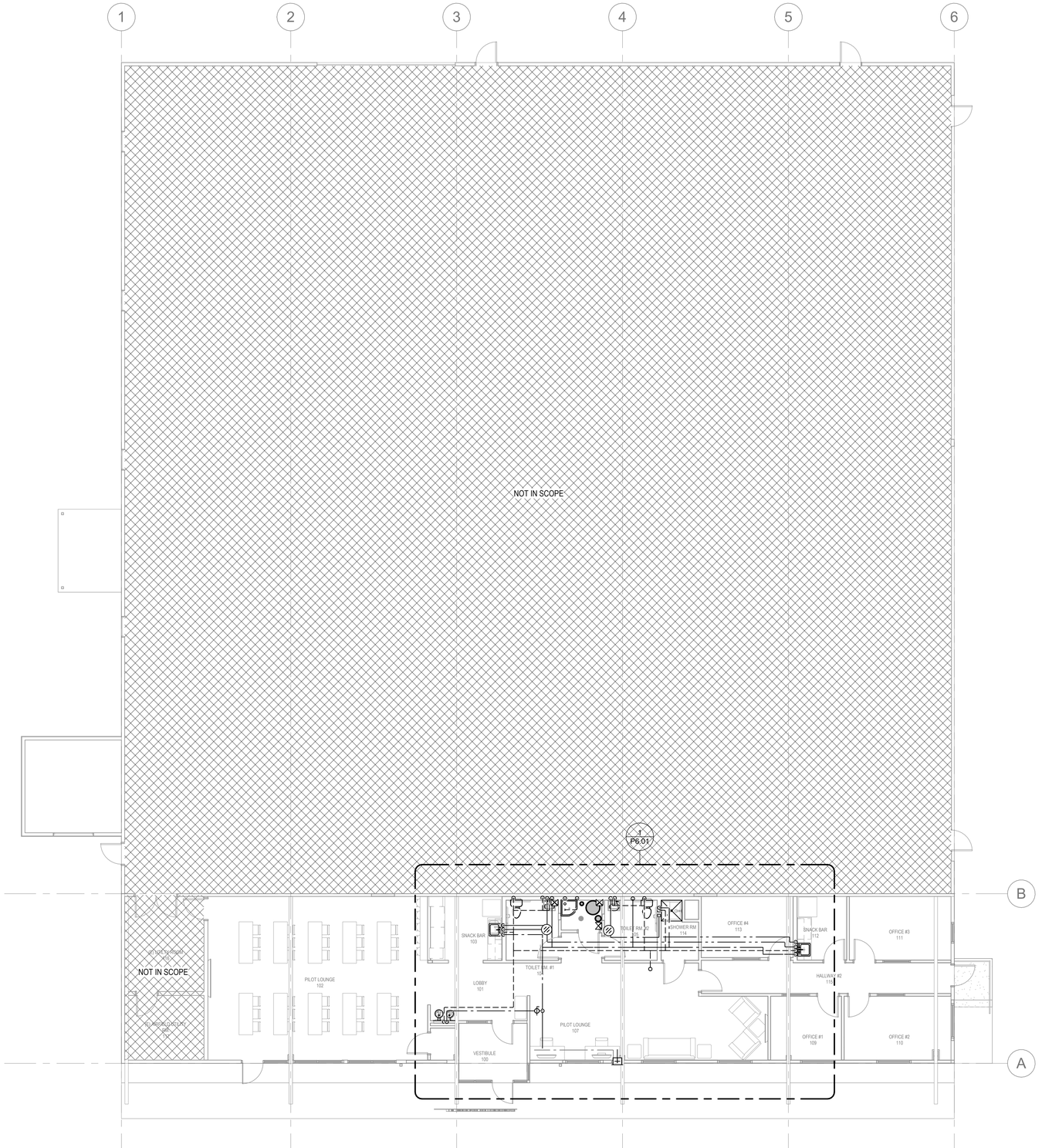

1 FLOOR PLAN - PLUMBING

SCALE: 1/8" = 1'-0"

1/8" = 1'-0"

0 8' - 0" 16' - 0" 24' - 0" 32' - 0"

7/18/25	60% OWNER REVIEW
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FLOOR PLAN - PLUMBING

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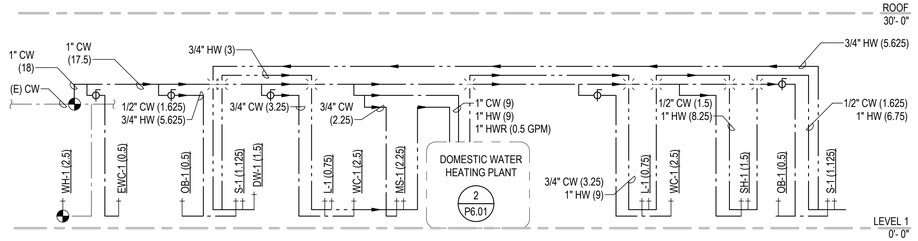
FAA GRANT #3-53-0139-022-2026

WATER AND WASTE SERVICE CALCULATIONS

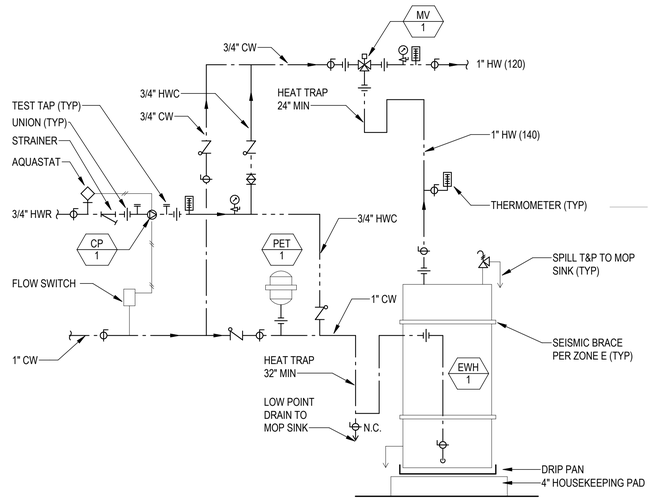
JOB NAME:	PEARSON FIELD PILOT LOUNGE					DATE:		11/20/25
JOB NUMBER:	150-25US00186					USER:		EGN
FIXTURE TYPE	NO.	WASTE		COLD WATER		HOT WATER		TOTAL WATER
		FU	TOTAL	FU	TOTAL	FU	TOTAL	FU
SHOWER	1	2	2	1.5	1.5	1.5	1.5	2
DRINKING FOUNTAIN	1	0.5	0.5	0.5	0.5	0	0	0.5
DISHWASHER (DOMESTIC)	1	0	0	0	0	1.5	1.5	1.5
KITCHEN SINK (DOMESTIC)	2	2	4	1.125	2.25	1.125	2.25	3
LAVATORY	2	1	2	0.75	1.5	0.75	1.5	2
MOP SINK	1	3	3	2.25	2.25	2.25	2.25	3
WATER CLOSET, TANK, PUBLIC	2	4	8	2.5	5	0	0	5
ICE MAKER OUTLET BOX	2	0	0	0.5	1	0	0	1
TOTAL FU			19.5		14.0		9.0	18.0
PRESSURE AVAILABLE AT MAIN (PSI):						50		
METER LOSS (PSI):						6		
BACKFLOW PREVENTER LOSS (PSI):						10		
PRESSURE DROP FROM UTILITY TO BUILDING (PSI):						5		
TOTAL SUPPLY PRESSURE AVAILABLE:						29		
MINIMUM REQUIRED FIXTURE PRESSURE (PSI):						15		
ELEVATION RISE (FT):						10		
EQUIVALENT PIPE LENGTH TO MOST REMOTE FIXTURE (FT):						100		
ESTIMATED FRICTION LOSS (PSI):						3		
MAXIMUM ALLOWABLE PIPE FRICTION LOSS (PSI):						10		
MAXIMUM ALLOWABLE PIPE FRICTION LOSS (PSI/100FT):						9.67		
MAXIMUM WATER FLOW VELOCITY (FPS):						5.05		
MINIMUM REQUIRED 'WATER' PIPE SIZE (INCHES):						1		
MINIMUM REQUIRED 'WASTE' AT 2% SLOPE PIPE SIZE (INCHES):						3		
MINIMUM REQUIRED 'WASTE' AT 1% SLOPE PIPE SIZE (INCHES):						Must Use 2% Slope		
(CALCULATIONS PER THE PLUMBING CODE)								



NOTES:
A. NUMBERS IN PARENTHESIS ARE COLD AND HOT WATER FIXTURE UNITS (CWFU & HWFU)
B. REFER TO SPECIFICATIONS FOR ADDITIONAL APPURTENANCES AND REQUIREMENTS.

3 DOMESTIC WATER RISER DIAGRAM

SCALE: NONE

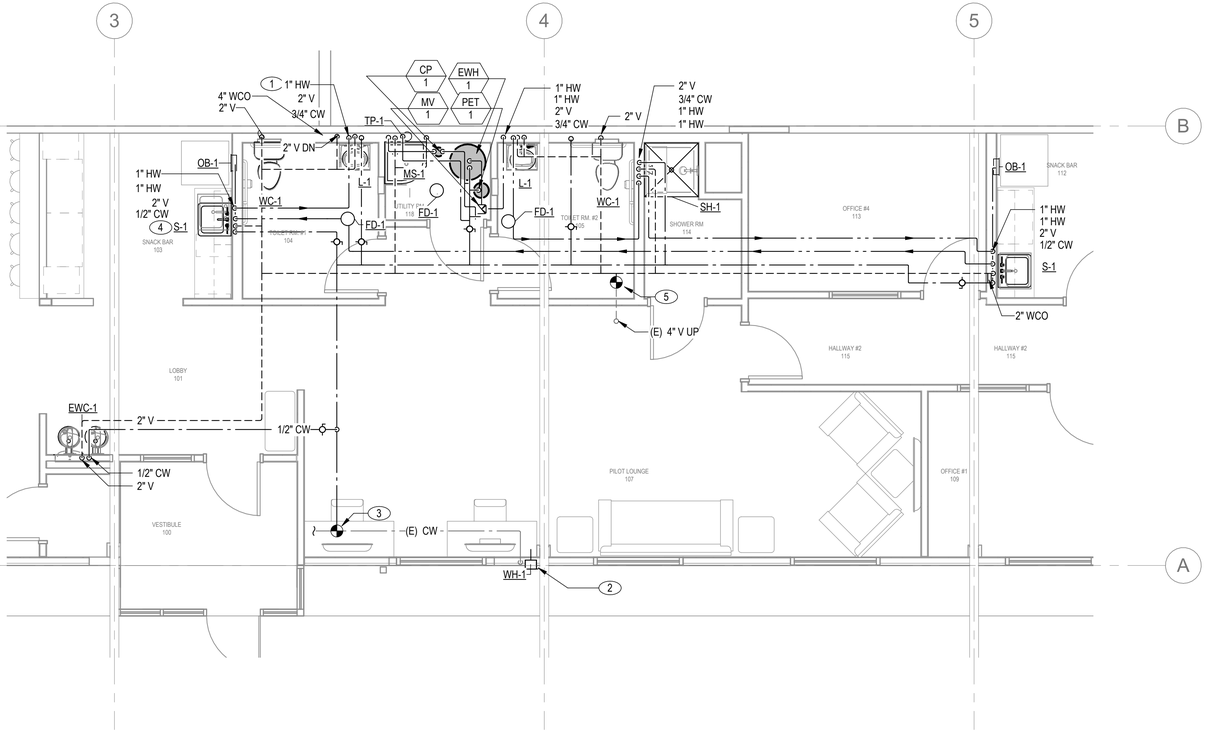


NOTES:
1. REFER TO PLANS FOR SCHEDULE, SIZES, LOCATION, AND CONTINUATION.
2. INSTALL PER MANUFACTURER'S INSTRUCTIONS.
3. REFER TO SPECIFICATIONS FOR SEISMIC RESTRAINT REQUIREMENTS.
4. THE TEMPERATURE AND PRESSURE RELIEF VALVE SHALL NOT EXCEED PRESSURE RATING OF ANY COMPONENT IN SYSTEM.

CIRC PUMP SOO
1. RUN CONDITIONS:
   A. OCCUPIED HOURS (BUILDING SCHEDULE)
      a. ENABLE PUMP WHEN THE CW MAKEUP FLOW SWITCH SENSES FLOW.
      b. PUMP SHALL CONTINUE TO RUN UNTIL THE DHWR TEMPERATURE READS 104°F (ADJUSTABLE) OR GREATER, AT WHICH POINT THE PUMP SHALL BE DISABLED.
      c. PUMP SHALL REMAIN OFF UNTIL DHWR TEMPERATURE REACHES 95°F (ADJUSTABLE) AT WHICH POINT THE PUMP SHALL BE ENABLED AGAIN.
   B. UNOCCUPIED HOURS (BUILDING SCHEDULE)
      a. THE CONTROLLER SHALL ENABLE THE PUMP WHENEVER THE CW MAKEUP FLOW SWITCH SENSES FLOW.
      b. PUMP SHALL CONTINUE TO RUN UNTIL THE DHWR TEMPERATURE FROM THE BUILDING READS 104°F (ADJUSTABLE) OR GREATER AT WHICH POINT THE PUMP SHALL BE DISABLED.
      c. PUMP SHALL REMAIN OFF UNTIL FLOW SWITCH SENSES FLOW AGAIN.

2 DOMESTIC HOT WATER HEATER

SCALE: NONE



1 MAIN FLOOR - FLOOR PLAN - PLUMBING - ENLARGED PLAN

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

1/4" = 1'-0"
0 4' - 0" 8' - 0" 12' - 0" 16' - 0"

SHEET NOTES

A. EXISTING LOCATIONS AND SIZES OF SANITARY LINES AND WATER LINES HAVE NOT BEEN VERIFIED. CONTRACTOR TO FIELD VERIFY BURIED SANITARY LOCATIONS FOR CONNECTION TO NEW FIXTURES AT THEIR NEW LOCATIONS.
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KEYED NOTES (#)

1 1-INCH HOT WATER LOOP DROPS IN WALL AND MAINTAINS SIZE, ROUTES HORIZONTALLY SERVING LAVATORY AND MOP SINK
2 PROVIDE NEW WALL HYDRANT UTILIZING EXISTING PIPING FROM DEMOLISHED HYDRANT IN SAME LOCATION
3 CONNECT 1-INCH COLD WATER SUPPLY TO EXISTING WATER MAIN TO SERVE FIXTURES. EXISTING WATER LOCATION AND SIZE HAS NOT BEEN VERIFIED AND POINT OF CONNECTION IS DIAGRAMMATIC, CONTRACTOR TO FIELD VERIFY LOCATION OF EXISTNG MAIN WATER LINE FOR POINT OF CONNECTION PRIOR TO START OF WORK.
4 PROVIDE ANGLE STOP AND AIR GAP DRAINAGE FITTING FOR DISHWASHER.
5 CONNECT 4-INCH VENT TO EXISTING EXISTING VENT THROUGH ROOF. EXISTING VENT LOCATION AND SIZE HAS NOT BEEN VERIFIED AND POINT OF CONNECTION IS DIAGRAMMATIC, CONTRACTOR TO FIELD VERIFY LOCATION OF EXISTNG VENT FOR POINT OF CONNECTION PRIOR TO START OF WORK.

7/18/25	60% OWNER REVIEW
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CITY OF Vancouver WASHINGTON

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VANCOUVER, WA 98661

DRAWING TITLE:
ENLARGED PLANS

DRAWN BY: Author
CHECKED BY: Checker

P6.01

ISSUE FOR CONSTRUCTION

FAA GRANT #3-53-0139-022-2026

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SCOPE OF WORK
PEARSON FIELD (VUO)
2026-2046 AIRPORT MASTER PLAN & AGIS
FAA AIP Grant Number: 3-53-0139-023-2026

PROJECT INTENT

City of Vancouver (Sponsor) intends to develop a 2026-2046 Airport Master Plan for Pearson Field. The Master Plan will provide the City of Vancouver with a plan to address the development needs at the airport for a 20-year planning horizon (2026-2046) and will develop a program for implementation within known funding constraints. Century West Engineering (Consultant) has been retained by the Sponsor to accomplish the Master Plan. The Consultant will work in close liaison with the City of Vancouver staff, a Planning Advisory Committee (PAC) or Steering Committee, Airport Advisory Committee, local business and stakeholder groups, the Federal Aviation Administration and the Washington State Department of Transportation (WSDOT) Aviation Division to ensure that the plan truly reflects the airport's development needs.

The Sponsor has provided specific direction regarding the elements to be included in the master plan to address the current and future needs at the airport. The following work program describes the effort required to successfully complete the Master Plan for Pearson Field within the FAA framework and including additional scope items identified by the City for the development of airport master planning documents.

This project will provide the City of Vancouver with an updated Airport Master Plan and revised Airport Layout Plan (ALP) drawings. An updated airport Capital Improvement Program (CIP) will provide the Sponsor with a method and proposed schedule for addressing future facility needs through use of FAA Airport Improvement Program (AIP) grants and other available funding sources.

The project will address and/or update the basic tasks and work elements as outlined in FAA Advisory Circulars 150/5070-6B, Airport Master Plans and 150/5300-13B Airport Design. SOP 2.00 and 3.00 will be prepared and submitted with the draft airport layout plan drawing set, to be reviewed and approved by FAA.

EXISTING CONDITIONS & OPPORTUNITIES

- Non-standard Condition Review
- Hangar Development Sites
- Utility Improvements & Extensions
- AGIS Survey
- Property Lease Review & Future Property Acquisition Needs
- Aircraft fueling & alternative fuels (electric charging, unleaded fuels)
- Vehicle and aircraft parking (tiedowns)
- Financial Planning – Operations and Maintenance

ELEMENTS OF THE MASTER PLAN

The master plan update includes the following major work elements:

Element 1 – Project Management
Element 2 – Public Involvement Process
Element 3 – AGIS Survey
Element 4 – Existing Conditions Analysis
Element 5 – Aviation Activity Forecasts
Element 6 – Facility Requirements
Element 7 – Alternatives Analysis
Element 8 – Capital Improvement Plan (CIP)
Element 9 – ALP Drawing Set
Element 10 - Reports and Documentation

Completion of the work elements in the Master Plan should result in:

1. A comprehensive understanding of the issues and opportunities, existing conditions, and an identified level of future aviation activity that would mandate facility improvements required to satisfy future demand.
2. A collaborative exploration of local Airport needs, goals, and facility requirements in sequence with the development of community driven vision statement.
3. An implementation program with recommended strategies and actions for future land use, transportation, and environmental requirements; a realistic and workable CIP; and current ALP drawings that graphically depict existing conditions at the airport as well as potential future proposed development projects.
4. A corresponding narrative report.

DRAFT

ELEMENT 1 – STUDY INITIATION, SCOPE OF WORK (SOW), AND PROJECT MANAGEMENT

Task 1.1 - Refine Scope of Work, Budget and Schedule
Century West will develop a detailed scope of work, budget, and schedule, including approach and level of effort, to be made a part of the project contract fee negotiations. A detailed task-by-task itemization of the project budget and schedule will be provided. Century West will also develop subconsultant teams for applicable work for the review and approval of the City of Vancouver.

Product: The final scope of work, which will also be used for an independent fee estimate for the project for use in contract negotiations. A breakdown of project costs for each work element will be provided.

Task 1.2 - Coordination and Control/Project Administration
The City of Vancouver will manage, through its consultant, the administrative grant and fiscal aspects of the project. Additional responsibilities include consultant/airport coordination, facilitation of meetings, timely product review and supply of existing plans, report and electronic files relating to the airport layout, land use, property ownership, pavement and facility conditions, and previous planning studies and current development desires.

It is anticipated that the Consultant team leaders and City staff will function as a work group that will facilitate all elements of the project. The Consultant will establish a schedule of monthly (or bi-weekly) project meetings (estimated to be 30 minutes to 1 hour, either bi-weekly or monthly as needed) for the work group, with an open invitation to the FAA to participate on an as-needed basis. The purpose of the meetings is to provide regular updates on study progress and to provide an opportunity to discuss and address issues that arise during the project. This coordination is intended to follow the overall project schedule. However, the need for additional (continued) coordination has become increasingly important as project review by FAA has required additional time. We have a commitment to our clients to maintain coordination through the completion of the project, regardless of original project schedule.

Product: An internal meeting schedule. Monthly (or bi-weekly) coordination meetings (virtually) throughout the process (18 months).

DRAFT

ELEMENT 2 – PUBLIC INVOLVEMENT PROCESS

A comprehensive and engaging public involvement process will be a key ingredient for a successful Master Plan update. The public involvement process element presents the tasks required to develop a collaborative public involvement and master planning process that develops understanding, explores solutions, and provides a realistic and achievable implementation plan.

Task 2.1 – Stakeholder Coordination

Effective coordination with local and regional jurisdictions, state and federal agencies, and key local non-agency stakeholders is a critical element in the success of any long-term planning process. Agency coordination will be initiated at the earliest stages of the project and maintained throughout to provide effective lines of communication.

Sub-task 2.1.1 – Identify Planning Advisory Committee (PAC) Members

The Consultant will work closely with City staff at the outset of the project to create a diverse PAC with approximately 5-10 subject matter experts, including representatives from the Airport Advisory Committee, City/County Planning, airport neighbors, business owners, City/County Economic Planning or Tourism, Airport Museum, etc. The PAC will be assembled to provide input and allow for public dissemination of data. In addition to the membership composition and number noted above, representatives from the FAA Seattle Airports District Office (ADO) will serve as ex officio members of the PAC.

Product: A developed PAC contact list comprised of selected PAC members.

Sub-task 2.1.2 – City Staff Coordination

The Consultant will coordinate with staff in conjunction with project meetings and/or public hearings to brief staff on project progress to prepare staff for Airport Advisory Committee or City Council updates. The Consultant should work with City Staff to ensure all project related information, timelines, and materials are forwarded to the City for timely posting and publication.

Task 2.2 – Planning Advisory Committee (PAC) Meetings

Three (3) PAC meetings will be held during the study. The Consultant will be responsible for conducting the meetings, reviewing the scope of the project, presenting the findings and recommendations of the plan and program, preparing written meeting summaries, and responding to any technical and professional questions and concerns. The Consultant will prepare any supplemental handouts or presentation graphics needed for the meetings.

The below PAC meetings will include a multi-step public review process that will begin with a stakeholder discussion on:

- Public engagement on the project to develop a community buy-in for the airport.
- Identify how community buy-in informs future land use, transportation, and environmental

DRAFT

requirements; and
- An overview of the airport's existing conditions and critical aircraft determination.

The stakeholder engagement will evolve through the process and refined based on stakeholder input. These meetings will review the additional areas of interest:

- Identify and verify the facility requirements necessary to satisfy potential future demands on the Airport;
- Preliminary development concepts will be presented and refined into a preferred alternative, selected by the City based on stakeholder engagement and input into the process; and
- A capital improvement plan (CIP) and airport layout plan (ALP) will be prepared as part of the draft final report for PAC, public, City, and FAA review.

FAA will be invited to participate in all PAC meetings. In the event they are unable to make the meeting in-person or virtually, a copy of the presentation or meeting recording will be shared with them.

Sub-task 2.2.1 – Conduct PAC #1 (In-person)
The Consultant will facilitate an interactive discussion with the PAC and stakeholder community. The information presented and input received will help the Consultant and City in refining the draft working materials into a final product.

Product: All project-related materials required to conduct PAC Meeting #1. Printed materials may include handouts and boards. Draft chapters will be shared digitally through email and the project website.

Meeting Attendance: 2 Planning/Engineering Consultants

Sub-task 2.2.2 – Conduct PAC #2 (In-person)
The Consultant will facilitate an interactive discussion with the PAC and stakeholder community. The information presented and input received will help the Consultant and City in refining the draft working materials into a final product.

Product: All project related materials required to conduct PAC Meeting #2 Printed materials may include handouts and boards. Draft chapters will be shared digitally through email and the project website.

Meeting Attendance: 2 Planning/Engineering Consultants

Sub-task 2.2.3 – Conduct PAC #3 (In-person)
The Consultant will facilitate an interactive discussion with the PAC and stakeholder

community. The information presented and input received will help the Consultant and City in refining the draft working materials into the final product.

Product: All project related materials required to conduct PAC Meeting #3. Printed materials may include handouts and boards. Draft chapters will be shared digitally through email and the project website.

Meeting Attendance: 2 Planning/Engineering Consultants

Task 2.3 – Project Meetings

Additional project meetings will serve as another opportunity for public engagement and project coordination among a variety of stakeholders and regulating agencies. The Consultant will prepare any supplemental handouts or presentation graphics needed for the meetings.

Sub-task 2.3.1 – Public Open Houses (In-person)

The Consultant will facilitate two (2) in-person public open house meetings are scheduled during the project. This will be organized as a public workshop with information displayed to inform the public and to provide a forum for neighbors and stakeholder groups to discuss the project and provide input. The meetings will be scheduled to coincide with PAC meetings (same day).

Product: Two (2) in-person public open house meeting scheduled in coordination with PAC meetings.

Meeting Attendance: 2 Planning/Engineering Consultants

Sub-task 2.3.2 – Airport Advisory Committee Meetings (In-person)

The Consultant will attend and present at two (2) of the regularly scheduled Airport Advisory Committee meetings during the project. These meetings will coincide with regularly schedule PAC meetings, at key points within the project to seek input into the planning process.

Product: Two (2) in-person public open house meeting scheduled in coordination with PAC meetings.

Meeting Attendance: 1 or 2 Planning/Engineering Consultants

Sub-task 2.3.2 – Federal Agency Coordination (FAA) (Virtual)

The Consultant and City staff will meet with FAA staff at the Alternatives and ALP review stages of the project to ensure full coordination and timely review and comment on draft work products.

FAA will be invited to participate in all PAC meetings (either in-person or virtually), in addition to the routine airport planning project coordination meetings throughout this planning process.

Product: Two meetings with FAA.

Meeting Attendance: 2 Planning/Engineering Consultants

Task 2.4 – Public Notice and Data Distribution

Sub-task 2.4.1 – Public Meeting Notices/Press Releases

The City will be responsible for coordinating and scheduling PAC and other public meetings, providing facilities for such meetings, and providing all required notification to PAC members and/or the public. The Consultant will advertise the date and time of the meetings to allow public attendance as desired. The Consultant will assume all costs of advertising and press release announcements in the local media and will coordinate with City staff to post notices and press releases on City's website.

Product: Meeting notices sent to one local media outlet of the City's choice. 1 time for each PAC meeting and public open house.

Sub-task 2.4.3 – Website Content for Project Website

The Consultant will provide project deliverables including draft chapters, presentation materials, meeting agendas, meeting notices, press releases, questionnaires (in-person and on-line), and meeting summary notes for posting on the project website. The project web page will provide an opportunity for the public to attend virtual open houses and review project deliverables and progress throughout the project.

The project website will be shared through the City of Vancouver's website and provided to Clark County to ensure the surrounding community has access to the project information.

Product: A project web page with relevant project related materials.

ELEMENT 3 – Airport Surveys (AGIS)

The Consultant will conduct an aeronautical survey at the Airport. The project will be completed in compliance with the FAA Advisory Circulars listed below and will include an airport airspace analysis (AAA) for *Runways with Vertical Guidance*. The survey will complete the tasks in the "Airport Layout Plan (ALP)" column of AC 150/5300-18B, Table 2-1. Consultant will also reference the FAA AGIS Survey Project Planning Guide to ensure that all requirements are met.

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Task 3.1 AGIS Survey

The purpose of this AGIS survey is to support ALP development and will include an FAA Airport Airspace Analysis Survey for all Obstruction Identification Surfaces (OIS) defined in FAA Advisory Circular 150/5300 - 18B, Section 2.7.1.1: Runways with Vertical Guidance. The consultant will be responsible for generating the OIS per the AC.

QUALITY STANDARDS

The Advisory Circulars identified below detail the data collection methods and accuracies required for the verification process by the Federal Aviation Administration (FAA) and the National Geodetic Survey (NGS).

- AC 150/5300-16B "General Guidance and Specifications for Aeronautical Surveys: Establishment of Geodetic Control and Submission to the National Geodetic Survey."
- AC 150/5300-17C "Standards for Using Remote Sensing Technologies in Airport Surveys."
- AC 150/5300-18B "General Guidance and Specifications for Submission of Aeronautical Surveys to NGS: Field Data Collection and Geographic Information System (GIS) Standards"

PROJECT AREA

The project area encompasses the Airport environs inclusive of the obstruction identification surfaces as defined in AC 150/5300-18B.

The consultant will coordinate with the Airport Sponsor, FAA ADO, and FAA Airports Data Information Portal (ADIP) team to complete the following:

- Assist the Airport Sponsor in setting up or recovering ADIP credentials necessary to create the AGIS project in ADIP
- Assist the Airport Sponsor in creating the AGIS Survey project in ADIP.
- Draft the AGIS Survey Statement of Work (SOW)
- Coordinate SOW Review with Airport Sponsor and FAA
- Submit SOW to ADIP for FAA concurrence

Subtask 3.1.1 - Aerial Control and Ground Survey

In accordance with the above-mentioned ACs, and the Statement of Work the Consultant will complete the following:

- Develop a Survey and Quality Control Plan
- Conduct pre-survey interviews with staff and complete interview checklists.
- Locate and validate PACS and SACS on the Airport. If PACS/SACS are not present or in usable condition, Temporary Survey Marks (TSM) will be established in accordance with AC 150/5300-16B, Paragraph 2.2.2
- Perform, Document, and Report the tie of PACS and SACS to the National Spatial Reference System (NSRS)
- Establish, record, and document aerial image control points/targets.

- Control point/target locations to be coordinated with Aerial Survey provider.
- Establish, record, and document five (5) OPUS check points.
- Survey and document all runway ends and displaced thresholds at the airport. Each runway end will be monumented if not already done.
- Determine or validate the runway width and length
- Survey the runway centerline profile at 50' stations
- Survey or validate the positions of all NAVAIDs associated with the airport.
- Provide completed field documentation, checklists and annotated photos detailing field methods
- Provide Survey Narrative describing field methods, data processing steps, and results.
- Complete any other tasks not specifically listed above, as outlined FAA AC-18B, Table 2- 1 "Survey Requirements Matrix", ALP Column.

Consultant will reference data deliverables to the project control datums:

Horizontal: North American Datum of 1983/2011 (NAD 83(2011)), Washington State Plane Coordinate System, South Zone in US Survey Feet.
Vertical: North American Vertical Datum of 1988 (NAVD 88)
Geoid: Geoid 18

Subtask 3.1.2 – Photogrammetric Mapping and Orthophotography

For this project, new vertical stereo aerial imagery will be acquired according to specifications described in FAA AC 150/5300-17C. Aerial imagery will be collected at two scales. High resolution imagery will cover the entirety of the Airport property and RPZs. Lower resolution imagery will cover the extent of the OIS surfaces.

From the high-resolution airport property aerial imagery, the following will be produced:

- 100 scale mapping with 1' contours of the existing airport property and Runway Protection Zones (RPZ).
- Color digital orthophoto tiles and a single orthomosaic with a GSD of no greater than 0.25'
- Identification and mapping of obstacles within the imagery footprint
  - Include top of all structures on the airport, and ground elevations of traverseway centerlines where they intersect extended runway centerlines. From the lower resolution OIS aerial imagery, the following will be produced:
- Landmark feature planimetric mapping
- Color digital orthophoto tiles and a single orthomosaic with a GSD of no greater than 1.0'
- Identification and mapping of obstacles within the OIS that were not captured in the high-resolution imagery.
  - Include elevations of traverseway centerlines where they intersect extended runway centerlines.

Subtask 3.1.3 – Obstruction and Planimetric Feature Collection and Submission

The Consultant will collect obstructions and planimetric data as outlined in the SOW and ACs. The Obstruction Identification Surfaces (OIS) will satisfy the following requirements of the AC 150/5300-18B, Section 2.7.1.1 Analysis of Runways with Vertically Guided Operations.

The specific types and quantities of obstructions for each surface are outlined and defined for the particular surface in the AC. Any obstructions that meet the requirement for measurement of the AC, but are of a nature that elevations at the highest point of the obstruction are impractical to read through photogrammetric methods (cell tower, electrical tower, whip antenna, etc.), will be identified and relayed to the surveyor to initiate field surveyed elevations for the obstruction.

The delivery will include the planimetric feature collection. Features to be collected are listed on the "Feature Collection Matrix", provided by the Consultant to the AGIS Subconsultant. The final obstruction and planimetric data will be provided in ESRI File Geodatabase (GDB) format and converted to ESRI Shapefile (SHP) for submission to the AGIS Portal.

Consultant will submit all required data and associated documentation in the formats specified in the appropriate advisory circulars to the FAA Office of Airports, Airports Surveying-GIS Program. All data submissions to the FAA will be through the program's website *http://www.adip.faa.gov.*

The deliverables (Task 3.1) that will be uploaded to the AGIS website include:

- *Statement of Work, Imagery Plan and Survey and Quality Control Plan*
- *Imagery Shipment Tracking Information*
- *Obstruction survey data*
- *Ground survey data*
- *Planimetric data*
- *18B-Compliant Shapefiles*
- *Final Report and supporting documentation*

Task 3.2 - Supplemental Information for Airport Layout Plan

In addition to the deliverables required under 18B delivery, the Consultant will provide the following supplemental information to support ALP development.

- Part 77 imaginary surfaces for future runway configurations as defined through the development alternatives process.
    - The future runway ends and profile(s) will be provided after the selection of a preferred runway alternative.
    - Provide additional heights of features as needed based on preferred runway alternative.

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<u>Product:</u> ESRI File Geodatabase containing Part 77 imaginary surfaces and obstacles as 3D polygon feature classes.

ELEMENT 4 – EXISTING CONDITIONS ANALYSIS

The existing conditions analysis element will present the master plan process to the public and document existing airfield facilities and conditions that affect the operation and development of the airport within the context of the region, and local municipalities. The existing conditions analysis will utilize the currently approved Airport Master Plan and subsequent work product to support the effort. The findings documented in the Existing Conditions Analysis chapter will be used to support subsequent recommendations throughout the development the master plan. It is expected the City of Vancouver will make available any information required to conduct a thorough inventory and analysis.

Task 4.1 – Develop Report Introduction Chapter

Consultant will develop a master plan introduction chapter to summarize and depict the following information related to the master plan:

- Study Purpose
- Project Need
- Project Funding
- Project Schedule
- Public Involvement Process
- Known Issues & Opportunities

<u>Product:</u> A summarization and depiction of relevant content.

Task 4.2 – Data Collection and Inventory

The Consultant will collect, analyze, and incorporate information from local, regional and state aeronautical or surface transportation studies, comprehensive planning documents, as related to the development of Pearson Field. The Consultant will also review existing and future land use within the airport environs and existing zoning patterns, including overlay zoning designations. Existing airport traffic patterns and flight procedures will be summarized.

Existing data and information, such as, but not necessarily limited to, documents, maps, studies, and projects currently underway or in the planning stages (on and off airport property and in the vicinity) which may directly or indirectly influence this study effort will be identified, reviewed, and documented. Such information would, for example, include a review of any existing regional and state system plans, airport layout plans, pavement maintenance plans, surface transportation plans, utility plans, area plans, and engineering reports, among others.

The Consultant will utilize inventory data contained in the previous Airport Layout Plan Report in addition to other airport specific, regional, or state aviation system planning studies. Other data sources include the FAA Airport Master Record, pavement management plan, construction drawings

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and other relevant documents, as provided by City staff. An on-site inspection of major components of the airport will also be performed.

Meetings: Miscellaneous meetings with City staff, Airport Advisory Committee, City/County planning staff, local airport users, etc.

Site Visit: Task includes 1 site visit for two (2) planners to collect data and understand the airport environment.

Product: Tabulated airport facilities inventory for input to later work elements.

Task 4.3 - Evaluate and Present the Existing Regional Setting of the Airport
Consultant will evaluate and present an understanding of the issues and opportunities related to the regional setting and local context of the Airport and surrounding community for use in subsequent phases of the master plan. The following Subtasks will form the framework for examining the regional context of the Airport:

Sub-task 4.3.1 – Location and Vicinity
Consultant will develop location and vicinity maps.

Sub-task 4.3.2 – Airport History, Role, and Area Airports Contextual Analysis
Consultant will summarize and depict the Airport History; the Airport's National, State, and Local Role; and conduct a Contextual Analysis of area airports.

- Airport History – Consultant will develop a summary and depiction of the Airport's history.
- National NPIAS, State, and Local Role – Consultant will summarize and depict the Airport's role in the National and State aviation system and summarize the role of the Airport within the local community.
- Area Airports Contextual Analysis – Consultant will conduct an airport service area analysis by locating competing airports relative to Pearson Field and population centers, assessing their role, and evaluating their facilities and services. This information will be utilized to assess the influence that surrounding airports have with respect to competing services, facilities and equipment, navigational aids, and accessibility.
- Airport Economic Impact – Data provided through the WSDOT Airport Economic Impact Study will be reviewed and included.

Sub-task 4.3.3 – Based Aircraft
The City of Vancouver will provide a current list of locally-based aircraft by number and type. Specific manufacturer and model data will be gathered for the largest type of based and/or itinerant aircraft that regularly use the Airport.

Product: Identification of based aircraft to inform the critical aircraft discussion.

Sub-task 4.3.4 – Relevant Studies
Consultant will summarize and depict relevant content from State and local planning studies which may or may not include the following:

- Comprehensive Plans
- Local Transportation System Plans
- Local Utility Master Plans
- Previous Airport Master Plans
- Current Approved Airport Layout Plan
- WSDOT Aviation System Plan

Sub-task 4.3.5 – Environmental Data
Consultant will summarize and depict environmental data from a variety of sources including previous environmental documents, consultant inquiries, and publicly available data to summarize and depict the data.

NEPA Analysis – Building off previous environmental work completed for the Airport, consultant will prepare an environmental overview of the Airport's environmental setting and operating environment based on NEPA Environmental Impact Categories outlined in FAA Order 1050.1F Policies and Procedures for Considering Environmental Impacts and FAA Order 5050.4B, FAA Environmental Handbook utilizing available data and information. No formal coordination with federal and state agencies will be conducted as part of this work element. Informal coordination may occur during the process of obtaining existing documents, etc. from various agencies.

Consultant will gather and utilize existing maps of the airport environs and environmental documents to document existing conditions. This summary is intended to reference any known or potential environmental conditions or issues that could be affected by proposed airport development that have been identified in recent environmental efforts conducted on the airfield. Consultant will request information from the U.S. Fish and Wildlife Service (USFWS) of any rare, threatened, and endangered plant and animal species that have been documented within the vicinity of the Airport.

Consultant shall summarize and depict environmental data from a variety of sources including, but not limited to, previous environmental documents, Consultant inquiries, and publicly available data to address the following environmental impact categories:

Air quality – Consultant shall briefly evaluate air quality considerations with respect to proposed master plan improvements. Air quality modeling or detailed analyses are outside of this scope of Services. Consultant shall also summarize and depict local climate data. Consultant shall request wind data from the onsite Automated Weather Observation System (AWOS) or

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nearest available AWOS/ASOS for the Airport. Consultant shall develop and update a wind rose using the FAA Airport Design program based on the most recent 10 years of available data.

Biological resources (including fish, wildlife, and plants) – Consultant shall provide an overview of habitat conditions and summary and of potential impacts to any biotic resources identified in the study area.

Federally-listed Endangered and Threatened ("T&E") Species – Consultant shall summarize known or documented existing T&E species and designated critical habitat. Consultant shall not perform species surveys as part of this scope of Services.

Climate - Consultant will summarize and depict local climate data. Consultant will obtain available data from any onsite weather observation equipment (AWOS/ASOS) or the nearest available airport data. A wind rose will be developed using the FAA Airport Design program.

Coastal resources – Not applicable and will not be included in the environmental section of the report.

Department of Transportation Act Section 4(f) – Consultant shall review the Project area to identify the presence of any Section 4(f) properties in the vicinity. If there are none, Consultant shall document it. A Section 4(f) evaluation to determine if the use of any 4(f) properties would be impacted is outside this scope of Services.

Farmlands - Consultant will review state and federal regulations for any Farmlands within the study area.

Hazardous materials, solid waste, and pollution prevention - Consultant will complete a summary and assessment of any Hazardous Materials identified in the study area based on a review of previous studies and published data. The Consultant will develop recommendations for avoidance, minimization, and mitigation measures for the preferred development alternative.

Historical, architectural, archeological, and Cultural Resources Assessment (CRA) - Building off previous environmental work completed for the Airport, Consultant shall summarize previous cultural resources surveys and identify potential areas that may require further analysis based on proposed development.

Land Use – Consultant shall review and summarize local land use compatibility and identify potential impacts of proposed improvements. Consultant shall review land use and zoning maps.

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Natural resources and energy supply - Consultant shall review proposed improvements, construction techniques, and materials to assess opportunities and impacts.

Noise and compatible land use – Noise contours and analysis will not be completed as part of this plan. The anticipated airport traffic does not require a noise analysis. Existing noise contours, if available, may be carried forward.

Visual effects (including light emissions) - Consultant will prepare a summary of increased light emissions and visual effects created through the construction of the proposed improvements.

Water resources (including wetlands, floodplains, surface waters, groundwater, and wild and scenic rivers) will be reviewed and included. If publicly available information exists, infiltration of stormwater into the waterways will be reviewed and summarized in the report.

Wetlands and Waters of the US – Consultant shall review existing information to identify potential wetland resources in the Project area including historic aerial photos, National Wetlands Inventory, and Natural Resource Conservation Service Soil Survey. Consultant shall perform a site reconnaissance to identify potential wetland areas. Consultant shall hand draw potential wetland areas on an aerial photo.

Note: Wetland delineation is outside this scope of services.

Floodplains – Consultant shall review FEMA maps to determine if any of the study area is within the 100-year floodplain. If the study area is in a floodplain, then it will be noted and cited in the report.

Stormwater and Water Quality – Consultant shall review on site drainage patterns and site uses to determine the potential for water quality impacts.

Consultant will coordinate with US Army Corps of Engineers to confirm that no protected resources exist in the vicinity of the project.

NEPA Analysis will provide a background overview of impact categories that will be used in the assessment of development alternatives. The Preferred Alternative will be reviewed to assess and document the likely impacts of the proposed improvements and serve as the basis for future Environmental Assessments. The Consultant shall recommend additional study for individual impact categories that may be required based on the selected Preferred Alternative.

Sub-task 4.3.6 – Local Surface Transportation System Analysis

Consultant will summarize and depict the existing and planned improvements for the local area surface transportation network.

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Sub-task 4.3.7 – Land Use Analysis
Consultant will summarize and depict the following:

- Base Zoning – Consultant will summarize and depict existing and planned on-airport and off-airport zoning/land uses covering the existing FAR Part 77 Surfaces.
- Overlay Zoning – Consultant will summarize and depict existing adopted City/County Airport overlay zones.

Product: A summarization and depiction of relevant content.

Task 4.4 - Evaluate and Present the Existing Landside Elements of the Airport
Consultant will evaluate and present an understanding of the issues and opportunities related to landside facilities and services of the Airport for use in subsequent phases of the master plan. The following sub-tasks will form the framework for examining the landside elements of the Airport:

Sub-task 4.4.1 – Utilities
Consultant will summarize and depict the existing utilities, to include water, gas, sanitary sewer, storm water, electric, telephone, communications, and any other utilities within the airport boundaries. Existing utility easements and any specified development setbacks located within airport property will be depicted and/or noted. Existing local utility provider drawings (electronic files when available) will be used to provide data for this task. Existing mapping of natural site conditions will be consolidated into a common base map for use in the project.

Sub-task 4.4.2 – Local Emergency Medical/Fire Services
Consultant will summarize and depict local emergency response facilities and capabilities.

Sub-task Task 4.4.3 – Airport Perimeter Fencing
Consultant will summarize and depict airport perimeter fencing and access to the airport operations area. The location and configuration of controlled/uncontrolled vehicle and pedestrian access gates will be documented.

Sub-task 4.4.4 – Airport Surface Road Access, Vehicle Parking, and Pedestrian Access
Consultant will summarize and depict the location and configuration of existing auto parking; vehicle parking conformance to local standards; internal airport access roads; and pedestrian access to aircraft. The location and configuration of controlled/uncontrolled vehicle access points (gates, etc.) to the airport will be documented. Common vehicular access routes within the airport's landside areas (hangars, aprons, etc.) and planned future connections will be identified through coordination with the Airport.

Sub-task 4.4.5 – General Aviation (GA) Terminal Areas
Consultant will summarize and depict the existing GA Terminal Area facilities including corporate office and manufacturing facilities, FBOs, flight schools, public terminal/pilot

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buildings and Airport administration and maintenance/vehicle storage facilities, non-aeronautical activities, and other operations on the Airport.

Sub-task 4.4.6 – Hangars
Consultant will summarize and depict the number of units, total square footage, and condition of aircraft storage units on the Airport (based on a visual exterior inspection and/or information provided by City staff).

A summary of current hangar occupancy and hangar ownership will be prepared based on data provided by the City.

Product: A summarization and depiction of relevant content.

Task 4.5 - Evaluate and Present the Existing Airside Elements of the Airport
Consultant will evaluate and present an understanding of the issues and opportunities related to airside facilities, design standards, and airspace and approach procedures of the Airport. The following sub-tasks will form the framework for examining the airside elements of the Airport:

Sub-task 4.5.1 – Airside Facilities
Consultant will summarize and depict existing airside facilities data gathered from a variety of sources to provide an inventory and understanding of the issues and opportunities surrounding the following airside elements:

- Aprons – Consultant will summarize and depict airfield apron areas as well as the location and number of based and itinerant aircraft parking spaces/tiedowns for the Airport's existing apron areas.
- Taxiways and Taxilanes – Consultant will summarize and depict the existing taxiway and taxilane network on the Airport.
- Runways – Consultant will summarize and depict the existing runways on the Airport.
- Airfield Pavements – Consultant will summarize and depict pavement thickness (if information is available), pavement markings, pavement strength (if information is available), pavement condition (based on latest PCI inspection), and construction history of airside facilities such as runways, taxiway/taxilane and apron pavements. The most recent Pavement Management Plan for the airport will be utilized, in addition to a review of existing design drawings.
- Support Facilities – Consultant will summarize and depict the airside support facilities such as airfield lighting, signage, weather reporting equipment, NAVAIDS, fuel tanks, and fueling facilities.

Sub-task 4.5.2 – FAA Design Standards
Consultant will summarize and depict known non-standard conditions identified in previous planning studies and any additional conformance issues based on the existing Runway Design

Code (RDC) and the approach type/category, along with the current Advisory Circular and Engineering Brief guidance.

Sub-task 4.5.3 –Airspace and Approach Procedures
Consultant will summarize and depict the latest available information for airspace, airport traffic patterns and procedures, TERPS/Part 77 Airspace, and approach procedures:

- Area Airspace Review - Consultant will summarize and depict Airport airspace.
- Traffic Patterns – Consultant will summarize and depict existing traffic patterns and aircraft operating procedures.
- PART 77 Airspace – Consultant will summarize and depict an analysis of existing FAR Part 77 surfaces and any existing obstructions. AGIS data will be used if available for the preliminary analysis, then incorporated into the final ALP drawing set.

Product: A summarization and depiction of relevant content.

Task 4.6 – Prepare Existing Conditions Chapter
Consultant will develop a chapter summarizing the tasks, sub-tasks, and pertinent information outlined above. The draft chapter will provide information for subsequent decisions. This chapter will be submitted to the City and FAA for review and comment.

Product: A narrative and graphical summary of the elements completed within Task 4; the chapter will be revised as necessary based on review comments and will subsequently become chapters of the Airport Master Plan report.

ELEMENT 5 – AVIATION ACTIVITY FORECASTS
Per FAA Memorandum, Forecast Review and Approval Instructions, dated August 12, 2024.

*At many smaller general aviation (GA) airports with less than 90,000 annual operations, the development of a planning forecast can often be streamlined to focus on analysis of the existing critical aircraft by runway and then the likely future critical aircraft by runway. The airport sponsor may attest that "**Current operations at the airport are less than 90,000 operations annually and not expected to exceed 90,000 operations in the foreseeable future. Therefore, preparation of a detailed forecast is not warranted**."*

Instead, the analysis will identify the existing critical aircraft, by runway, and if there is any expected change to the future critical aircraft in the foreseeable future (through mid-term period). A consistency check with the TAF is not necessary in using this option.

Task 5.1 - Prepare Aviation Activity Summary
A summary of the existing based aircraft, aircraft operations, and critical aircraft will be prepared and included in the Existing Conditions Chapter.

Sub-task 5.1.1 – Based Aircraft
Consultant will summarize the existing based aircraft (single engine, multi-engine piston, single/multi-engine turboprop, business jets, air tankers, historic aircraft, helicopters, and other aircraft (light sport aircraft, gliders, ultralights).

Note: The Airport Sponsor will provide the Consultant with a list of based aircraft and will be responsible for ensuring that the basedaircraft.com database is up to date.

Sub-task 5.1.2 –Aircraft Operations
Consultant will summarize the existing annual aircraft operations including mix of general aviation itinerant and local operations; commercial operations; and military operations.

Note: Historical aircraft operations will be based on best available information, gathered through Airport Master Record, ADSB tracking, and FAA's Opsnet and TFMSC data.

Sub-task 5.1.3 – Critical Aircraft
Consultant will summarize and depict pertinent information as it relates to the forecasted critical aircraft for each forecast year. Based on existing and future aircraft operations forecasts, the Consultant will determine the existing and future critical aircraft (500 annual operations, including local and itinerant, excluding touch and go's). The existing and future critical aircraft will determine the existing and future airport reference code, upon which FAA design standards are predicated.

Note: The Future Critical Aircraft will be used to identify the future runway length for the Airport. Prior planning included a runway extension, which will be re-evaluated as part of this update.

Product: The identification of the Critical Aircraft and a summary of the existing airport operations, fleet mix and critical aircraft as part of the Inventory Chapter of the report. FAA will need to generate an approval letter based on the following statement from the Forecast Instruction Memo (2024). "Current operations at the airport are less than 90,000 operations annually, and not expected to exceed 90,000 operations in the foreseeable future. Therefore, preparation of a detailed forecast is not warranted."

ELEMENT 6 – FACILITY REQUIREMENTS
The facility requirements will focus on the facility improvements needed to safely and efficiently accommodate projected demand for the twenty-year planning period consistent with current FAA standards.

Task 6.1 – Define Updated Airfield Design Standards and Analyze Airfield Conformance
The Consultant will conduct an evaluation of the forecast critical aircraft and appurtenant FAA airport design standards and FAR Part 77 airspace standards based on the existing approach type/category for each runway end. Any non-conforming items will be documented. Non-standard Items will be

addressed in the airport development alternatives evaluation.

Product: Identification of any non-conforming facility configuration based on existing and future RDC.

Task 6.2 – Define Landside Elements Requirements
Based on the existing conditions analysis, forecasts of aviation activity, demand considerations, and input from the City and PAC, the Consultant will summarize and depict a series of facility requirements and needs necessary to satisfy future demand and address any issues and opportunities identified in the Landside Elements analysis, which may include the following:

- Utilities
- Local Emergency Medical/Fire Services (EMS)
- Airport Perimeter Fencing
- Airport Surface Road Access, Vehicle Parking, and Pedestrian Access
- General Aviation (GA) Terminal Areas
- Hangars /Aircraft Parking Areas

Product: Formulation of "landside elements" facility requirements to serve as a guide for the preparation of the development alternatives.

Task 6.3 – Define Airside Elements Requirements
Based on the existing conditions analysis, forecasts of aviation activity, demand considerations, and input from the City and PAC, the Consultant will summarize and depict a series of facility requirements necessary to satisfy future demand and address any issues or opportunities identified in the Airside Elements analysis, which may include the following:

- Airside (Runway/Taxiways) Facility Needs
- FAA Design Standards
- Airspace and Approach Procedures

Product: Formulation of "airside elements" facility requirements to serve as a guide for the preparation of the alternatives analysis.

Task 6.4 – Develop Facility Requirements Chapter
The Consultant will develop a chapter describing the tasks outlined above. The chapters will be submitted to the City and FAA for review and comment.

Product: A narrative and graphical summary of the facility requirements; the chapter will be revised as necessary based on review comments and will become a chapter of the report.

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ELEMENT 7 – ALTERNATIVES ANALYSIS

In coordination with the public involvement process the purpose of this element is to evaluate the effects of the proposed development solutions identified in the facility requirements in the form of airport development alternatives, thus providing the technical basis necessary for selecting a "preferred" development plan for the airport.

Task 7.1 – Identify and Prepare Alternatives

Consultant will, based on the facility requirements, prepare, and depict potential airport development alternatives for community and regulatory agency discussion.

- Two (2) airside development options – runway/taxiway configuration
- Two (2) landside development options – hangars, aircraft parking areas, and fueling areas
- One (1) no action alternative, maintains the existing conditions of the airport

The airport development alternatives will be prepared using an aerial photo base and AGIS data, when available, combined with the electronic file for the Airport Layout Plan that depicts existing conditions.

Task 7.2 – Evaluation of Development Alternatives

Consultant will develop a detailed evaluation to summarize and depict a comparison of the merits and deficiencies of the development alternatives under consideration. An evaluation matrix will be prepared to compare the composite rankings of each alternative. Factors to be considered in the evaluation include:

Ability to Serve Forecast Demand: Each alternative will be evaluated to determine its ability to meet forecast demand levels for a 10-year planning horizon. The identified facility improvements and associated projects will include a justification that identifies whether the improvement is needed for forecast demand or to meet FAA design standards.

Airport Design Standards: Each alternative will be evaluated toward FAA airport design standards. Potential approach obstructions and required mitigation, if any, will be identified. Potential impacts on existing airport or tenant facilities will be addressed. The identified facility improvements and associated projects will include a justification that identifies whether the improvement is needed for forecast demand or to meet FAA design standards.

Airspace Compatibility: Using the airspace requirements developed earlier and the forecasts of aviation activity, potential impacts to airspace and related operations will be evaluated for each alternative. This will include VFR airport traffic patterns, any existing instrument approach and departure (TERPS) surfaces.

Land Use, Transportation, and Environmental Compatibility*:* The proposed development alternatives will be evaluated to determine the impact on local land use, local transportation systems, and the environment (the environmental analysis will generally be a high-level overview of the relevant NEPA impact categories).

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Product: A summarization and depiction of the evaluation of airside and landside development alternatives presented.

Task 7.3 – Recommended Preferred Development Alternative
Consultant will facilitate discussion amongst stakeholders and PAC members per the public involvement process to identify a recommended preferred development alternative for Pearson Field.

The City will select a preferred development alternative for the Consultant to proceed on with Implementation phase of the master plan. The preferred alternative may include elements from one or more of the preliminary development alternatives or may include refinements that were created during the evaluation of the preliminary alternatives. As noted earlier, the preferred alternative must be consistent with all applicable FAA technical standards and regulations.

Product: The City's selected preferred development alternative to be reflected in graphic depiction and narrative description.

Product: A summarization and depiction of the recommended preferred development alternative.

Task 7.4 – Prepare Development Alternatives Chapter
The Consultant will develop a chapter describing the tasks outlined above. This chapter will be submitted to the City and FAA for review and comment as described in the Public Involvement Element.

Product: A narrative and graphical summary of the alternatives analysis; the chapter will be revised and/or amended as necessary based on review comments and will become a chapter of the report.

ELEMENT 8 – FINANCIAL PLAN
The Consultant will work closely with the City to identify key development priorities to be reflected in the updated CIP. The cost of each project will be listed with the amount of anticipated FAA funding defined based on current funding eligibility. The CIP will provide an annual breakdown of projects for the short-term period (years 1-5) and long term (years 6-20) periods.

Task 8.1 – Prepare CIP Spreadsheet & Cost Estimates
The Consultant will prepare a 20-year Airport CIP, which will include recommended phases of development, estimates of cost for each improvement, possible funding sources, including an evaluation of the airport's predicted available FAA grant funding based on current funding legislation. The CIP will also estimate local expenses associated with project implementation that are not typically eligible for FAA funding.

The short-term period of the CIP (years 1-5) will be organized with prioritized annual project listings; projects included in the long-term (years 6-20) will be prioritized within the overall timeframe. A

phasing diagram will identify each development and major pavement maintenance project programmed in the 20-year planning period.

Product: A 20-year CIP – corresponding to the preferred alternative (in spreadsheet form and project phasing diagram, with associated text.)

Task 8.2 – Airport Operations – Financial Review

The Consultant will review the airports existing revenues and expenses and project out a budget through the next 5 and 10 years. The Consultant will identify shortfalls in revenues to cover anticipated operating costs. The budget will also include presumed local match costs for future FAA funded projects through the next 5 and 10 years. A market assessment and appraisal is not included in this project, but may be recommended in order to adjust rates to meet market demand.

Task 8.3 – Prepare Financial Plan Chapter

The Consultant will develop a chapter describing the tasks outlined above. This chapter will be submitted to the City and FAA for review and comment as described in the Public Involvement Element.

Product: A narrative and tabular summary of the implementation plan. The chapter will be revised and/or amended as necessary based on review comments and will become a chapter of the report.

ELEMENT 9 - AIRPORT LAYOUT PLAN DRAWINGS

The previous Airport Layout Plan drawing set will be replaced (redrawn), to reflect current conditions, updated master plan development recommendations, and all applicable FAA requirements. The major projects proposed in the Capital Improvement Program (CIP) will be shown on the ALP in schematic form. All drawings will be created in AutoCAD formatted with color imaging and use of color aerial photography and AGIS data, developed according to FAA SOP 2.00 and 3.00.

ALP Drawing Set Submittals

1. Preliminary Draft ALP Drawing Set
2. Draft ALP Drawing Set
3. Final ALP Drawing Set

The Consultant will be responsible for submitting a signed copy of the FAA ALP checklist with copies of the draft ALP submittal to the FAA. Following the completion of FAA and local review, the Consultant will make all necessary revisions; comments provided by City staff, the PAC, and others will be addressed during the same revision period.

Task 9.1 - Airport Layout Plan & SOP 2.00

An Airport Layout Plan (ALP) drawing shall be prepared in accordance with the findings, recommendations and approvals resulting from the study. The ALP (or Data Sheet) will include a non-

standard condition review with disposition. The ALP shall be developed utilizing the data collected and exported into AutoCAD. Additionally, the ALP will be compatible with the file format currently used by the City.

The Airport Layout Plan will contain the information as required in FAA Advisory Circular 150/5300-13B, and the most current FAA SOP 2.00. The Airport Layout Plan will contain sufficient data to obtain approvals from the FAA. The Airport Layout Plan will be depicted as a black and white line drawing with color, as needed, to help differentiate the line work and hatching.

Product: Preparation of an Airport Layout Plan in AutoCAD format, compatible with the file format currently used by the City.

FAA Review: Consultant will review, update, and respond to all FAA comments following their draft final review.

Task 9.2 – Terminal Area Plan
Terminal Area Plan will be prepared to depict the existing and proposed general aviation facilities and any new general aviation areas (locations to be determined through master plan evaluation). Facilities that may be shown in the drawings include:

A. Apron Configuration and Aircraft Parking Positions (based and itinerant aircraft, including helicopter parking positions);
B. Aircraft Taxiways and Taxilanes;
C. FBO and Aircraft Fueling Facilities.
D. Access Roadways and public vehicle parking; and
E. Security Fencing and Gates.

Product: Terminal Area Plan projecting development consistent with the ALP drawing, but in greater detail.

Task 9.3 - Airport Airspace Drawing (FAR Part 77)
The FAR Part 77 drawing depicts the plan view of the ultimate FAR Part 77 imaginary surfaces for the airport. The existing and future full-length approach plan and profile views to each runway end. Any obstructions will be listed, the amount of penetration determined (using AGIS data) and their proposed disposition will be identified. Fifty-foot contour intervals will be shown for all FAR Part 77 imaginary surfaces for full length of all approach surfaces. NOS Obstruction Chart and AGIS obstruction data will be incorporated into the drawing, as appropriate. USGS quadrangle maps or AGIS data will be utilized for the base layer on the Part 77 plan view.

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Product: A FAR Part 77 airspace plan drawing for the airport

Task 9.4 - Runway Protection Zone (RPZ)/Inner Approach Plan and Profile Drawings
Drawings will be prepared that show the plan view of the Runway Protection Zones (RPZ) and plan and profile views of the inner portion of the runway approach surface for each runway end. In addition, obstacle clearance surfaces (OCS) or TERPS instrument runway departure surfaces will be depicted, as applicable. Any obstructions within the RPZ or the other noted surfaces will be identified and a recommended disposition will be provided. Aerial photography and AGIS data may be used to develop these drawings. This drawing may be combined with other drawings.

Product: A Runway Protection Zone/Approach Plan and Profile drawing that shows the RPZs for each runway end at the airport.

Task 9.5 - Approach Plan and Profile for Each Runway End
Drawings will be prepared that show the existing and future full approach plan and profile for the approaches to each runway. In addition, obstacle clearance surfaces (OCS) or TERPS instrument runway departure surfaces will be depicted, as applicable. Any obstructions within the approaches will be identified and a recommended disposition will be provided. This drawing may be combined with other drawings. USGS maps and AGIS data will be utilized.

Product: An Approach Plan and Profile drawing that shows the Part 77 approaches for each runway end. The ultimate Part 77 approach plan and profile will be prepared for the most critical airfield configuration (existing or ultimate). TERPS instrument runway departure surfaces will also be depicted if applicable.

Task 9.6 – Threshold Siting Surface Drawing for Each Runway End
A Threshold Siting Surface Drawing will be prepared based on the findings and recommendations reflected in the preferred alternative. A plan showing the existing and ultimate threshold siting surface will be developed for each runway end. Plan and profile views of each area will be developed identifying all physical obstructions. Obstruction heights and locations will be noted based on AGIS data. Any obstruction requiring removal or relocation to meet FAA standards will be noted and an action plan identified. This drawing may be combined with other drawings, if appropriate.

Product: A Threshold Siting Surface drawing depicting the surfaces for each runway end.

Task 9.7 – On-Airport Land Use Plan
The Land Use Plan drawing will depict existing and recommended uses of all land (aeronautical & non-aeronautical uses) within the ultimate airport property. Current zoning designations for the Airport will also be depicted. The Land Use Plan will be illustrated on a drawing (same sheet size and scale as the ALP) and described within the body of the Master Plan document. The Consultant will work with the City during the development of the On-Airport Land Use Plan to ensure accurate depiction of existing and proposed land uses.

The airport layout plan and on-airport land use plan drawings are intended to provide a clear path for effective and efficient facility development based on anticipated demand, while providing airport management with adequate flexibility to refine facility configurations as needed to respond to changing market conditions.

Product: An On-Airport Land Use Plan for all land within the ultimate airport property.

Task 9.8 – Off-Airport Land Use Plan

The Off-Airport Land Use Plan drawing will depict existing and recommended uses of all land in the vicinity of the airport, generally identified as that area surrounding the airport, generally within ½-mile of the facility. Land uses will be depicted by comprehensive plan land use categories, including such as agriculture, residential, industrial, commercial, open space, aviation-related, public, etc. Current zoning designations may also be depicted.

Off-airport land use will be illustrated on a drawing (same sheet size as the ALP) and described within the body of the Master Plan document. Any findings found in this study effort will be incorporated into the environs land use recommendations, which may be provided to any affected governmental entity near the Airport. The Consultant will work with airport planning during the development of the Off-Airport Land Use Plan drawing to ensure that recommendations needed to implement any changes in land use designations or zoning have been shared with local planning agencies. It is noted that master plan addresses a 20-year planning horizon that does not typically require immediate implementation for all action items.

Product: An Off-Airport Land Use Plan for lands in the vicinity of the airport.

Task 9.9 – Exhibit A

An Airport Exhibit A that meets SOP 3.00 will be prepared depicting property ownership, avigation and surface easements. The current airport boundary along with detailed parcel information (grantor, grantee, type of interest, acreage, book & page, date of recording, and appropriate FAA project application numbers if applicable is to be provided to the Consultant by the City or secondary sources. The Airport Exhibit A will be prepared in accordance with FAA SOP 3.00.

Note: A title search and property boundary survey is scoped as part of a second phase of this planning project and is dependent on an FY2027 grant. Information from the survey will be used to inform the Exhibit A. In the event Phase 2 is not completed or funded, then the property plan map will include best available information provided by the City.

Product: Airport Exhibit A

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ELEMENT 10 - REPORTS AND DOCUMENTATION

Task 10.1 – "Preliminary" Draft ALP Set – FAA & City Review
In order to address any concerns from the City and the FAA, a draft ALP set will be prepared for FAA and Sponsor preliminary review and comment. Formal reviews will be conducted following the preliminary coordination.

Product: "Preliminary Draft" Airport Layout Plan Set will be provided to the City.

Task 10.2 - Draft Airport Master Plan Report and Draft ALP Drawing Set – FAA & City Review
To ensure proper coordination of the planning effort and assure agreement between the Consultant, Sponsor and FAA, a Draft Airport Master Plan Report and Draft ALP drawing set will be submitted for formal review. The draft report will contain all preliminary chapters (revised based on comments provided on original drafts), ALP drawings and the financial evaluation. The draft documents and plans will be submitted to the FAA for review and coordination with the appropriate FAA divisions (Air Traffic, etc.).

The draft ALP will be uploaded into FAA's OE/AAA database for FAA review and comment.

Product: "Draft" Airport Layout Plan Set and "Draft" Airport Master Plan Report will be provided to the Port and FAA.

Task 10.3 - Final Report and ALP Drawing Set
The Final Airport Master Plan Report and ALP drawings set will be prepared and distributed based on comments received from the FAA final coordination/review process and any subsequent comments received from the Sponsor. This will be the final publication of the report and plans set.

The final ALP will be uploaded into FAA's OE/AAA database with the draft water mark removed.

Product: "Final" Airport Layout Plan Set and "Final" Airport Master Plan Report will be provided to the City and FAA.

Task 10.4 – Summary of Products to FAA

Product:	Quantity
Chapters/Draft Chapters	1 – PDF (of each chapter)
Draft Final Update Report	1 – PDF
Preliminary Draft ALP Print Sets & FAA Checklist	1 – PDF
Draft ALP Set & FAA Checklist	1 – PDF
Final ALP Set	1 – PDF
Final ALP CADD Files	1 – PDF

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Final Report	1 – PDF

Task 10.5 – Summary of Products to Sponsor

The items listed below include distribution to the Planning Advisory Committee (PAC), and City staff. All draft electronic documents will be distributed through links to the Consultant or City project webpage. Final electronic files will be provided both through website links and with physical storage media (USB or link to download).

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Product:	Quantity
Chapters/Draft Chapters	1 – PDF (of each chapter)
Draft Final Update Report	1 – PDF
Preliminary Draft ALP Print Sets & FAA Checklist	1 – PDF
Draft ALP Set	1 – PDF
Final ALP Set	1 – Printed & 1 – PDF
Final ALP CADD Files	1 – PDF
Final Report	1 – Printed & 1 – PDF

All public review documents will be shared digitally, either through email or shared on the project website. Individuals who wish to have printed copies may print them individually for use.

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