

**Planning Commission
Regular Meeting Agenda
Wednesday, December 7, 2022 at 7:00 p.m.**

**Lowell Fire Department
389 N Pioneer St
Lowell, OR 97452**

Members of the public are encouraged to provide comment or testimony through the following:

- Joining by phone, tablet, or personal computer. For details, click on the event at www.ci.lowell.or.us.
- In writing, by using the drop box at Lowell City Hall, 107 East Third Street,
- Lowell, OR 97452.
- By email to: admin@ci.lowell.or.us.

Meeting Agenda

Call to Order/Roll Call/Pledge of Allegiance

Commissioners: Dragt ___ Kintzley ___ Hall___ Pickett___ George___

Approval of Agenda

Approval of Minutes

- Approval of the November 2, 2022 meeting minutes

Old Business

New Business

1. Land use application #2022-05, "Lowell High School Gym and Classroom Expansion, map and tax lot #19-01-14-23-08100." – Discussion/ Possible action
 - a. The public hearing is now open at ___ (state time)
 - b. Staff report – Henry Hearley, City Planner
 - c. Public comment
 - d. The public hearing is now closed at ___ (state time)
 - e. Planning Commission decision on Land Use file #2022-05

Other Business

Adjourn

The meeting location is accessible to persons with disabilities. A request for an interpreter for the hearing impaired or other accommodations for persons with disabilities must be made at least 48 hours before the meeting to City Clerk Sam Dragt at 541-937-2157.

**City of Lowell, Oregon
Minutes of the Planning Commission Meeting
November 2, 2022**

The meeting was called to order at 7:00 PM by Commissioner Chair Dragt.

Members Present: Lon Dragt, Suzanne Kintzley, Jason Pickett, Bill George

Members Absent: Lloyd Hall

Staff Present: CA Jeremy Caudle, City Planner Henry Hearley LCOG

Approval of the Agenda: Commissioner Kintzley moved to approve, second by Commissioner Pickett. PASS 4:0

Approval of Minutes: Commissioner Kintzley moved to approve the minutes from September 7, 2022, second by Commissioner Pickett. PASS 4:0

Old Business:

- **Public Hearing regarding reconsideration of Land Use file #2022-02, “Mixed-use development on North Shore (Phase 1).”**

Open Public Hearing: 7:02 PM

Staff Report – Henry Hearley City Planner, LCOG, presented report, Mixed-use development on North Shore (Phase 1).” With recommended conditions of approval.

Commissioner questions:

- Commissioner George inquired about any issues from the property’s previous vehicle storage and any contamination possibility. City Planner spoke about a previous study that was approved
- CA Caudle asked for clarification about the City’s recoument of the costs for the improvements done in the Lowell right-of-way. City Planner Hearley offered to make this a condition of approval as item #15
- Commissioner Kintzley had a question about the condition stating that prior to the issuance of the Certificate of Occupancy there are still items that need to be completed. Commissioner Dragt clarified that the planning commissions duty is to say that they can or cannot build, the City is responsible for any other condition resolutions.

Public Testimony – none

Close Public Meeting: 7:18 PM

Reconvene Public Meeting: 7:18 PM

Commission Deliberation: Commissioner Kintzley made a motion to approve Land Use application #2022-02 “Mixed-use development on North Shore (Phase 1) based on the standards, findings, and recommendations stated in the staff report and with addition of Condition number 15. Seconded by Commissioner Pickett PASS 4:0

New Business: none

Other Business: None

Adjourn: 7:23 PM

Approved: _____
Lon Dragt - Chair

Date: _____

Attest: _____
Jeremy Caudle, City Recorder

Date: _____

Staff Report
Site Plan Review Application
Lowell High School Gym/Classroom Expansion LU 2022 05
November 30, 2022

1. **PROPOSAL.** The Planning Commission is being asked to review and render a decision on an application for site plan review for the proposed development of a school gymnasium expansion consisting of a new weight room and two classrooms, with accompanying bathrooms. The newly constructed building will front Main Street and is within the boundaries of the Regulating Plan. The Regulating Plan designates the property as Civic/Public. The subject property is located on Map and Tax Lot 19-01-14-23-08100 and is zoned Downtown Commercial (C-2). The existing bus barn next to the site will remain for now but is proposed to be demolished with the introduction of Phase 2. At this time, Phase 2 of the project is not yet ready for land use review and the schedule is to be determined. Notice was mailed to adjacent properties in accordance with Lowell Development Code (LDC) on November 16, 2022.
2. **APPROVAL CRITERIA.** *LDC, Section 9.204* lays out which items are required as part of an application for site plan review request. The applicant has submitted a site plan review application. A site plan review requires a “limited land use review” by the Planning Commission, and *LDC, Section 9.250* contains the decision criteria the Planning Commission shall consider in making their decision for approval or denial.
3. **REFERRAL COMMENTS RECEIVED.**
Staff received referral comment from the City Engineer on October 5 indicating the need to show pre and post development flows and how the applicant will address the difference. The applicant has since then completed the pre and post development flow analysis with the assistance of a civil engineer. The City Engineer’s comments relating to stormwater runoff have been addressed and the City Engineer has no further concerns or comments on the proposal.

Lane County Transportation submitted comment on October 7. Lane County stated the applicant should do their due diligence to make sure the development will not have any significant impacts to Pioneer Street/Jasper-Lowell road. If the expansion is foreseen to increase volume or influence peak hour trips – a traffic study might be required. The applicant has since then addressed Lane County’s comments. In the applicant’s supplemental submittal dated November 4, the applicant states it’s their assumption that the development will only add four peak hour trips – well below the threshold to warrant a traffic study and not significant. The development will not be adding any new driveways from Main Street – the access that currently exist to the High School will remain the same, except for the addition of pedestrian amenities in the form of a path, along the east side of the new building, and sidewalk along Main Street.

Referral comments are contained in **Attachment D**.

4. STAFF REVIEW OF SITE PLAN REVIEW CRITERIA LDC 9.250

(b) Decision Criteria. After an examination of the Site and prior to approval, the Planning Commission must make the following findings:

(1) That the proposed development complies with the Zoning District standards.

Recommended FINDING for approval: The zone of the subject property is Downtown Commercial (C-2). Per Section 9.422(b)(8) public or semi-public buildings and uses are permitted uses in the C-2 zone, subject to Site Plan review. The proposed weight-room and classroom expansion of Lowell High School is classified as a public or semi-public building and use. Therefore, the proposed development is a permitted use in the C-2 zone.

Staff now turn to a discussion of the specific development standards of the C-2 zone.

Section 9.422(e)(1) – Lot Configuration.

Recommended FINDING for approval: Lots within the Downtown District are approved by the Planning Commission. However, in this instance, there are no new lots or parcels being created. The proposed development will occur on an existing lot. The lot is large enough to accommodate the proposed building and use.

Section 9.422(e)(2) – Yards.

Recommended FINDING for approval: Exterior yard setbacks are not required. Buildings are encouraged to front onto wide sidewalks that include landscaping and pedestrian amenities. The applicant is proposing to front the new building onto Main Street and construct new sidewalks, planter strip, and bicycle parking adjacent to the side-door entrance to the new building. The building's primary entrance facing Main Street will be off to the side – so, not technically face Front Street. However, with implementation of Phase 2 the main entrance will face Main Street and open into a vestibule.

Interior yard setbacks are not required, except for when abutting a residential property. The property does not abut a residential property.



Phase 1 door will be in this area and not face Main Street.

Larger plan here is to create a vestibule that connects the two buildings. The door created with Phase 1 will be the starting point for the eventual connection when Phase 2 is built out.

Image 1. Image of front facing facade on Main Street. Far right portion of image contains elements of Phase 2 development which not proposed at this time.

Section 9.422(e)(3) – Maximum building height 3 stories.

Recommended FINDING for approval: The proposed building does not exceed 3 stories.

Section 9.422(e)(4) – Access shall be designed to encourage pedestrian and bicycle use and shall facilitate vehicular movements with minimum interference or hazards for through traffic. The dedication of additional right-of-way and construction of street improvements by an applicant may be required in compliance with the standards herein.

Recommended FINDING for approval: The proposed development does not require the addition of new right-of-way or additional access driveways from a right-of-way. There is an existing curb-cut located east of the proposed building that is used to access the parking lot at the corner of Main Street and South Pioneer. Pedestrian improvements include construction of a new wide sidewalk along the frontage of the new building, a planter strip, and bicycle parking. Pedestrian access will further be facilitated towards Main Street and the Downtown District with the addition of a pedestrian walkway to be constructed near the eastern end of the new building that connects the main High School buildings with Main Street and the Downtown District. See Image 2 below.



Image 2. Pedestrian connection at the east end of the building that connects the High School the Main Street and the Downtown District.

Section 9.422(e)(5) – Development in the Downtown area may be conditioned upon an agreement to comply with reasonable exterior building modifications and street and sidewalk standards established as part of a future Downtown Development Plan.

Recommended FINDING for approval: The subject property does lie within the confines of the Regulating Plan. A further discussion and explanation of the proposal weighed against the applicable standards of the Downtown Master Plan will be addressed later in this report.

Criterion #1 for Site Plan review has been addressed and is met.

(2) That the proposed development complies with applicable provisions of city codes and ordinances.

Recommended FINDING for approval: The application and site plan submitted by the applicant demonstrates the proposed development can comply with applicable provisions of City codes and ordinances. Criterion met.

(3) That the proposed development will not cause negative impacts to traffic flow or to pedestrian and vehicular safety and future street rights-of-way are protected.

Recommended FINDING for approval: Per the minimum parking requirements of the LDC, the proposal requires two additional parking spaces. Those two additional parking spaces are anticipated to generate four additional trips. Four additional trips do not constitute a negative impact to traffic flow or to pedestrian and vehicular safety. The existing access point from Main Street will remain as is. The addition of wider sidewalks and a planter strip, to create a buffer

(7) That the proposed development will not cause negative impacts, potential hazards or nuisance characteristics as identified in Section 2.140, Item 21 of the Application Site Plan consistent with the standards of the Zoning District and complies with the applicable standards of all regulatory agencies having jurisdiction.

Recommended FINDING for approval: The proposed development will not cause negative impacts, potential hazards or nuisance characteristics. Criterion met.

(8) That development within Lowell’s Downtown, as defined by the Regulating Plan included in the Lowell Development Master Plan, are consistent with the policies of the Lowell Downtown Master Plan.

1.6 PLANTING STRIPS

Place planting strips on both sides of the street to absorb stormwater between street curbs and sidewalks.

1.7 STREET TREES

Place deciduous canopy trees at regular intervals, approximately 25 feet on center, on both sides of a street in the space between the curb and sidewalk. Street trees shall align with local landscape standards and should be placed a minimum of 10 feet from fire hydrants and 20 feet from stop signs.

Recommended FINDING for approval: The applicant will be placing an approximately 5’ wide planting strip in between the street and the new sidewalk. Street trees will be required. The applicant will be submitting a street tree plan as part of the building permit process. A plan showing canopy trees placed approximately 25’ apart will be built by the contractor under a separate contract. Staff will include the street tree requirement as a condition of approval.

The Regulating Plans call for buildings along Main Street to have a minimum of two stories. The proposed building is not a traditional two-story building because there are no proposed floors above the main ground floor. Lowell does not define what height constitutes a story. However, the building height is 19’ and the front facing façade creates building articulation that is higher than adjacent facades. This building articulation with varying building heights creates the pedestrian realm that the two-story minimum requirement is trying to create.

Staff are requesting Planning Commission’s discretion on this item. Staff do not have any objections to the proposal of having the building height of 19’ with articulation in lieu of a traditional two-story building. Staff note that specific building standards will be created for lands zone Public Lands- Downtown of which future buildings must adhere to. Those building standards will be part of the soon-to-be adopted Lowell Development Code amendments and once adopted will be enforceable upon future development. Planning Commission should consider if the applicant’s proposed building height of 19’ on the primary facing façade meets the intent of the two-story minimum requirement of the Regulating Plan. The minimum story requirement is caught in between the awkward space between the adoption of the Downtown

Master Plan and the codification of the building standards for properties within the Regulating Plan into the Lowell Development Code. The new building standards for properties within the Regulating Plan should be adopted by the City in early 2023.



Image 4. Proposed front facing facade. Highest point of front facing facade is 19'. Note the building height articulation that aids in creating vibrant pedestrian realm.

Condition of Approval #1: Prior to the issuance of building permits, applicant or contractor shall submit a street tree plan showing canopy trees spaces approximately 25’ apart, consistent with Policy 1.7 of the Lowell Downtown Master Plan.

STAFF REVIEW OF STORM DRAINAGE CRITERIA

LCD 9.520. Until completion of a Storm Drainage Master Plan for the City of Lowell, Section IV, of the Standards for Public Improvements and the following shall apply. In the event of a conflict, the following takes precedence.

(a) General Provisions. It is the obligation of the property owner to provide proper drainage and protect all runoff and drainage ways from disruption or contamination. On-site and off-site drainage improvements may be required. Property owners shall provide proper drainage and shall not direct drainage across another property except as a part of an approved drainage plan. Paving, roof drains and other catch basin outflows may require detention ponds or cells and discharge permits. Maintaining proper drainage is a continuing obligation of the property owner. The City will approve a development request only where adequate provisions for storm and flood water run-off

have been made as determined by the City. The storm water drainage system must be separate and independent of any sanitary sewerage system. Inlets should be provided so surface water is not carried across any intersection or allowed to flood any street. Surface water drainage patterns and proposed storm drainage must be shown on every development plan submitted for approval. All proposed drainage systems must be approved by the City as part of the review and approval process.

Recommended FINDING for approval: The applicant hired a civil engineer to complete a stormwater drainage assessment and plan. The proposed development will replace existing compacted gravel and paved surface with building roof and pedestrian sidewalk surface that is similarly impervious. No net increase in impervious surface is proposed and the runoff potential for the post-development surfaces will remain unchanged from the pre-development surface conditions at the site during large storm events such as the 25-year design storm. Therefore, the project will not produce an increase in peak runoff that would impact the performance of the existing downstream public storm drain system.

The City Engineer has reviewed the applicant’s stormwater plan and concurs with the findings. Criterion met.

Condition of Approval #2: Construction plans related to improvements related to stormwater runoff shall first be reviewed and approved by the City Administrator or their designee, prior to the issuance of building permits. Construction level review may occur as part of the building permit review process.

SECTION 9.518 SIDEWALKS

Public sidewalk improvements are required for all land divisions and property development in the City of Lowell. Sidewalks may be deferred by the City where future road or utility improvements will occur and on property in the rural fringe of the City where urban construction standards have not yet occurred. The property owner is obligated to provide the sidewalk when requested by the City or is obligated to pay their fair share if sidewalks are installed by the City at a later date. An irrevocable Waiver of Remonstrance shall be recorded with the property to guarantee compliance with this requirement.

Recommended FINDING for approval: The frontage of the proposed development, along Main Street, is already developed with existing sidewalk. The applicant will be removing the existing sidewalk and replacing it with a new sidewalk and planter strip. From the back of the curb to face of walk is 5’-6” and face of walk to face of walk is 6’-0”. Staff also note that on-street parking is available on Main Street. Criterion addressed.

Condition of Approval #3: Construction plans for sidewalks and planter strips shall be submitted to the City Administrator, or their designee, for review and approval prior to the issuance of building permits. Construction level review may occur as part of the building permit review

process.

SECTION 9.805 IMPROVEMENTS AGREEMENT

Before City final approval of a development, site plan or land division, the developer or land divider shall file with the City an agreement between developer or land divider and the City, specifying the period within which required improvements and repairs shall be completed and providing that, if the work is not completed within the period specified, the City may complete the work and recover the full cost and expense, together with court costs and attorney fees necessary to collect said amounts from the developer or land divider. The agreement shall also provide for reimbursement of the City's cost of inspection in accordance with Section 9.801 (f).

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Recommended FINDING for approval: Because there are urban public improvements involved, which will be constructed within the City's right-of-way, an improvement agreement shall be entered into between the applicant/developer and the City.

SECTION 9.806 SECURITY

- (a) *The developer or land divider shall file with the agreement, to assure full and faithful performance thereof, one of the following:*
 - (1) *A surety or performance bond executed by a surety company authorized to transact business in the State of Oregon in a form approved by the City Attorney; or*
 - (2) *A personal bond co-signed by at least one additional person together with evidence of financial responsibility and resources of those signing the bond sufficient to provide reasonable assurance of ability to proceed in accordance with the agreement to the satisfaction of the City Council; or*
 - (3) *A cash or negotiable security deposit.*

- (b) *Such assurance of full and faithful performance shall be for a sum approved by the City as sufficient to cover the cost of the improvements and repairs, including related engineering and incidental expenses, and to cover the cost of City inspections and other costs.*

- (c) *Prior to acceptance of required public improvements, the developer or land divider shall file one of the above listed assurances with the City, in an amount equal to 20% of actual construction costs, as a warranty towards defects in materials and workmanship identified for a period of no less than one year after City acceptance of the public improvements. The City may agree to a longer warranty period in lieu of the above required assurances.*

Recommended FINDING for approval: The applicant/developer shall file with the improvement agreement a surety bond or performance bond for the urban street improvements being constructed in the City's right-of-way.

Condition of Approval#4: Prior to the issuance of certificates of occupancy, the applicant and the City shall enter into an improvement agreement for the required public improvements and connections to public facilities involved with development of Phase 1. The public improvements shall be conducted in accordance with Section 9.801, Improvement Procedures.

Condition of Approval #5: Prior to the issuance of certificates of occupancy and prior to final acceptance of the urban street improvements, the applicant/developer shall file a surety or performance bond for the completed public improvements. Said improvements shall be inspected by the City Engineer or their designee before final acceptance.

5. CONDITIONS OF APPROVAL.

Condition of Approval #1: Prior to the issuance of building permits, applicant or contractor shall submit a street tree plan showing canopy trees spaces approximately 25' apart, consistent with Policy 1.7 of the Lowell Downtown Master Plan.

Condition of Approval #2: Construction plans related to improvements related to stormwater runoff shall first be reviewed and approved by the City Administrator or their designee, prior to the issuance of building permits. Construction level review may occur as part of the building permit review process.

Condition of Approval #3: Construction plans for sidewalks and planter strips shall be submitted to the City Administrator, or their designee, for review and approval prior to the issuance of building permits. Construction level review may occur as part of the building permit review process.

Condition of Approval#4: Prior to the issuance of certificates of occupancy, the applicant and the City shall enter into an improvement agreement for the required public improvements and connections to public facilities involved with development of Phase 1. The public improvements shall be conducted in accordance with Section 9.801, Improvement Procedures.

Condition of Approval #5: Prior to the issuance of certificates of occupancy and prior to final acceptance of the urban street improvements, the applicant/developer shall file a surety or performance bond for the completed public improvements. Said improvements shall be inspected by the City Engineer or their designee before final acceptance.

5. ATTACHMENTS.

Attachment A – Applicant’s initial application

Attachment B – Applicant’s supplemental submittal of materials

Attachment C – Notice

Attachment D – Referral comments

6. STAFF RECOMMENDATION.

Staff recommend the Planning Commission **approve** the requested Site Plan Review subject to the findings, conclusions and conditions of approval as contained in the staff report. An appeal of the Planning Commission’s decision may be appealed to the City Council in accordance with Lowell Development Code.

At the Planning Commission's guidance staff will prepare a final order with findings of fact that will reflect the decision and mirror the recommended findings contained in the staff report. Notice of the Planning Commission’s decision will be sent to the applicant and parties of record in accordance with the timeline set forth in the Lowell Development Code.

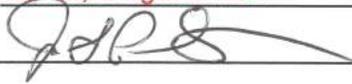
By signing, the undersigned certifies that he/she has read and understood the submittal requirements outlined, and that he/she understands that incomplete applications may cause delay in processing the application. I (We), the undersigned, acknowledge that the information supplied in this application is complete and accurate to the best of my (our) knowledge. I (We) also acknowledge that if the total cost to the City to process this application exceeds 125% of the application fee, we will be required to reimburse the City for those additional costs in accordance with Ordinance 228.

PROPERTY OWNER

Name (print): Jason Pickett - Lowell School District Phone: 541-912-0807

Address: 65 South Pioneer Street

City/State/Zip: Lowell, Oregon 97452

Signature: 

APPLICANT, if Different

Name (print): _____ Phone: _____

Company/Organization: _____

Address: _____

City/State/Zip: _____

Signature: _____

E-mail (if applicable): _____

APPLICANTS REPRESENTATIVE, if applicable

Name (print): Christopher Walkup Phone: 541-686-2014

Company/Organization: GLAS Architects, LLC

Address: 115 West 8th Ave

City/State/Zip: Eugene, Oregon 97401

E-mail (if applicable): cwalkup@glas-arch.com

For City Use. Application Number 6.000133L4 ²⁰²²⁻₀₄
Date Submitted: 9/28/22 Received by: Handie Fee Receipt # 6.000133
Date Application Complete: _____ Reviewed by: _____
Date of Hearing: _____ Date of Decision _____ Date of Notice of Decision _____



Lowell City Hall
P.O. Box 490 Lowell, OR 97452
Phone: 541-937-2157
Email: sdragt@ci.lowell.or.us

Land Use Application Fees and Charges:

Lowell School District - weight room

Pre-Application Conference Fee (Applied to application fee if application is made)	\$290.00
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Site Plan Review	<u>\$292.00</u>
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Total	\$582.00
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Payable to:
City of Lowell
PO Box 490
Lowell, OR 97452

City of Lowell
107 E 3rd St
PO Box 490
Lowell OR 97452 (541) 937-2157

Receipt No: 6.000133 Sep 28, 2022

Lowell School District

Licenses & Permits
13 S Moss/ 65 S Pioneer 2,852.89
110-335-4352
Land Use & Development

Total: 2,852.89
=====

Gen - Check
Check No: 038848 2,852.89
Payor:
Lowell School District
Total Applied: 2,852.89

Change Tendered: .00
=====

09/28/2022 1:18 PM

LANE COUNTY SCHOOL DISTRICT NO. 71 / LOWELL SCHOOL DISTRICT NO. 71

LANE COUNTY SCHOOL DISTRICT NO. 71

Account	Purch. Order	Invoice Number	Amount	Description
4004150000000527 640		042122	2,270.89	PARKING LOT PERMIT
1002542599000000 640		WT ROOM	582.00	WEIGHT/CLASSROOM APPL

VENDOR NO. 1040

CHECK NO. 38848

1040 CITY OF LOWELL

CHECK NO. 38848

APPLICATION SITE PLAN REQUIREMENTS CHECKLIST
Lowell Land Development Code, Section 2.140

Applications for land divisions or land use requests that require a site plan shall submit the site plan on 8 1/2 x 11 inch or 11 x 17 inch black/white reproducible sheets for copying and distribution. Larger drawings may be required for presentation and City review. Drawings shall be drawn to scale. The scale to be used shall be in any multiple of 1 inch equals 10 feet (1" = 20', 1" = 30", 1" = 100', etc.) and may be increased or decreased as necessary to fit the sheet size. The Application and site plan shall show clearly and with full dimensioning the following information, as applicable, for all existing and proposed development. It is understood that some of the requested information may not apply to every application.

- _____ The names of the owner(s) and applicant, if different.
- _____ The property address or geographic location and the Assessor Map number and Tax Lot number.
- _____ The date, scale and northpoint.
- _____ A vicinity map showing properties within the notification area and roads. An Assessor Map, with all adjacent properties, is adequate.
- _____ Lot dimensions.
- _____ The location, size, height and uses for all existing and proposed buildings.
- _____ Yards, open space and landscaping.
- _____ Walls and fences: location, height and materials.
- _____ Off-street parking: location, number of spaces, dimensions of parking area and internal circulation patterns.
- _____ Access: pedestrian, vehicular, service, points of ingress and egress.
- _____ Signs: location, size, height and means of illumination.
- _____ Loading: location, dimension, number of spaces, internal circulation.
- _____ Lighting: location and general nature, hooding devices.
- _____ Street dedication and improvements.
- _____ Special site features including existing and proposed grades and trees, and plantings to be preserved and removed.

- _____ Water systems, drainage systems, sewage disposal systems and utilities.
 - _____ Drainage ways, water courses, flood plain and wetlands.
 - _____ The number of people that will occupy the site including family members, employees or customers.
 - _____ The number of generated trips per day from each mode of travel by type: employees, customers, shipping, receiving, etc.
 - _____ Time of operation, where appropriate. Including hours of operation, days of the week and number of work shifts.
 - _____ Specifications of the type and extent of emissions, potential hazards or nuisance characteristics generated by the proposed use. The applicant shall accurately specify the extent of emissions and nuisance characteristics relative to the proposed use. Misrepresentation or omission of required data shall be grounds for denial or termination of a Certificate of Occupancy.
- Uses which possess nuisance characteristics or those potentially detrimental to the public health, safety and general welfare of the community including, but not limited to; noise, water quality, vibration, smoke, odor, fumes, dust, heat, glare or electromagnetic interference, may require additional safeguards or conditions of use as required by the Planning Commission or City Council.
- All uses shall meet all applicable standards and regulations of the Oregon State Board of Health, the Oregon Department of Environmental Quality, and any other public agency having appropriate regulatory jurisdiction. City approval of a land use application shall be conditional upon evidence being submitted to the City indicating that the proposed activity has been approved by all appropriate regulatory agencies.
- _____ Such other data as may be necessary to permit the deciding authority to make the required findings.

NOTE: Additional information may be required after further review in order to adequately address the required criteria of approval.



September 21, 2022

To: City of Lowell

Re: Lowell High School Weight Room / Classroom Building

The Lowell school district intends to construct a building directly east of their existing bus facility. The building will consist of a weight room, two classrooms, restrooms, storage and vestibules. The building is considered to be two stories in height and fronts East Main Street. An entry will be provided off of East Main Street. A new walk will be constructed immediately north of the property line and a new landscape area will be provided between the existing curb and the edge of the new walk. The landscape area will be irrigated and planted with a mix of grasses, groundcover, shrubs and trees – exact layout will be determined by an owner-hired design build landscape contractor.

The proposed building is phase one of a two phase project. Phase two is not submitted at this time. Phase two will be constructed in the current location of the existing bus facility and will consist of a gymnasium, restrooms, spectating area and a main entry for both the weight room and the gymnasium fronting onto East Main Street. A rendering of the conceptual design is included in the packet.

Parking will not be added at this time, as the parking count for the entire site meets the city requirements after adding the two classrooms.

Site lighting will be achieved through wall mounted light fixtures that provide one foot candle minimum along the egress path to the public way. Light fixtures do not have an upward light component and are designed with a cutoff shield to prevent spillage onto neighboring properties. A cutsheet of the fixture is included in the packet.

Included are the required documents (site plans) as well as renderings of the building, and a full – not for construction drawing set (reduced to 11x17 for submittal).

Sincerely

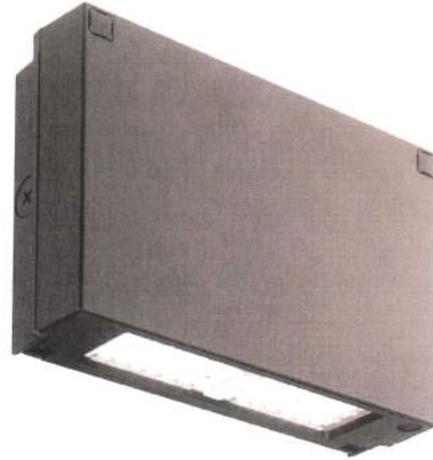
A handwritten signature in black ink, appearing to read "Chris Walkup", is written over the word "Sincerely".

Christopher Walkup, AIA
Principal | Member



Catalog Number
Notes
Type

Contractor Select™
WPX LED
 Wall packs



The WPX LED wall packs are energy-efficient, cost-effective, and aesthetically appealing solutions for HID wall pack replacement and renovation opportunities. The WPX2 and WPX3 full cut-off solutions fully cover the footprint of the HID glass wall packs that they replace, providing a neat installation and an upgraded appearance. Reliable IP66 construction and excellent LED lumen maintenance ensure a long service life.

FEATURES:

- Architectural design at very economical prices
- Energy efficient - payback in less than two years
- Wide range of configuration options available



Note : WPX3 lumen package and all the WPX configuration options are not included in the Contractor Select program. For more information, please visit [WPX LED](#).

Luminaire	CCT	Lumens	Input Watts	Finish	Voltage	Catalog Number	CJ Code	UPC	Pallet qty.	Replaces Up To
WPX1	4000K	2,900	24W	DARK BRONZE	120-277V	WPX1 LED P2 40K MVOLT DDBXD M4	*265SWK	193048870589	160	150W Metal Halide
	5000K	2,900	24W	DARK BRONZE	120-277V	WPX1 LED P2 50K MVOLT DDBXD M4	*265SWM	193048870572	160	150W Metal Halide
WPX2	4000K	6,000	47W	DARK BRONZE	120-277V	WPX2 LED 40K MVOLT DDBXD M2	*265SX3	193048870756	120	250W Metal Halide
	5000K	6,000	47W	DARK BRONZE	120-277V	WPX2 LED 50K MVOLT DDBXD M2	*265SX6	193048870770	120	250W Metal Halide

More configurations are available. [Click here](#) or visit www.acuitybrands.com and search for [WPX LED](#).



Specifications

INTENDED USE:

The WPX LED wall packs are designed to provide a cost-effective, energy-efficient solution for the one-for-one replacement of existing HID wall packs. The WPX1, WPX2 and WPX3 are ideal for replacing up to 150W, 250W, and 400W HID luminaires respectively. WPX luminaires deliver a uniform, wide distribution.

CONSTRUCTION:

WPX feature a die-cast aluminum main body with optimal thermal management that both enhances LED efficacy and extends component life. The luminaires are IP66 rated, and sealed against moisture or environmental contaminants.

ELECTRICAL:

Light engine(s) configurations consist of high-efficacy LEDs with LED lumen maintenance of L90/100,000 hours. Color temperature (CCT) options of 3000K, 4000K and 5000K with minimum CRI of 70. Electronic drivers ensure system power factor >90% and THD <20%. All luminaires have 6kV surge protection (Note: WPX1 LED P1 package comes with a standard surge protection rating of 2.5kV. It can be ordered with an optional 6kV surge protection).

Note: The standard WPX LED wall pack luminaires come with field-adjustable drive current feature. This feature allows tuning the output current of the LED drivers to adjust the lumen output (to dim the luminaire).

Sample nomenclature : WPX1 LED P1 40K MVOLT SPD6KV DDBXD All photocell (PE) operate on MVOLT (120V - 277V) input.

INSTALLATION:

WPX can be mounted directly over a standard electrical junction box. Three 1/2 inch conduit ports on three sides allow for surface conduit wiring. A port on the back surface allows poke-through conduit wiring on surfaces that don't have an electrical junction box. Wiring can be made in the integral wiring compartment in all cases. WPX is only recommended for installations with LEDs facing downwards.

LISTINGS:

CSA Certified to meet U.S. and Canadian standards. Suitable for wet locations. IP66 Rated. DesignLights Consortium® (DLC) qualified product. Not all versions of this product may be DLC qualified. Please check the DLC Qualified Products List at www.designlights.org/QPL to confirm which versions are qualified.

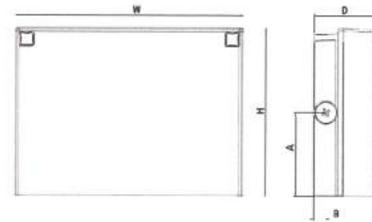
WARRANTY:

5-year limited warranty. Complete warranty terms located at: www.acuitybrands.com/CustomResources/Terms_and_conditions.aspx.

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

Dimensions

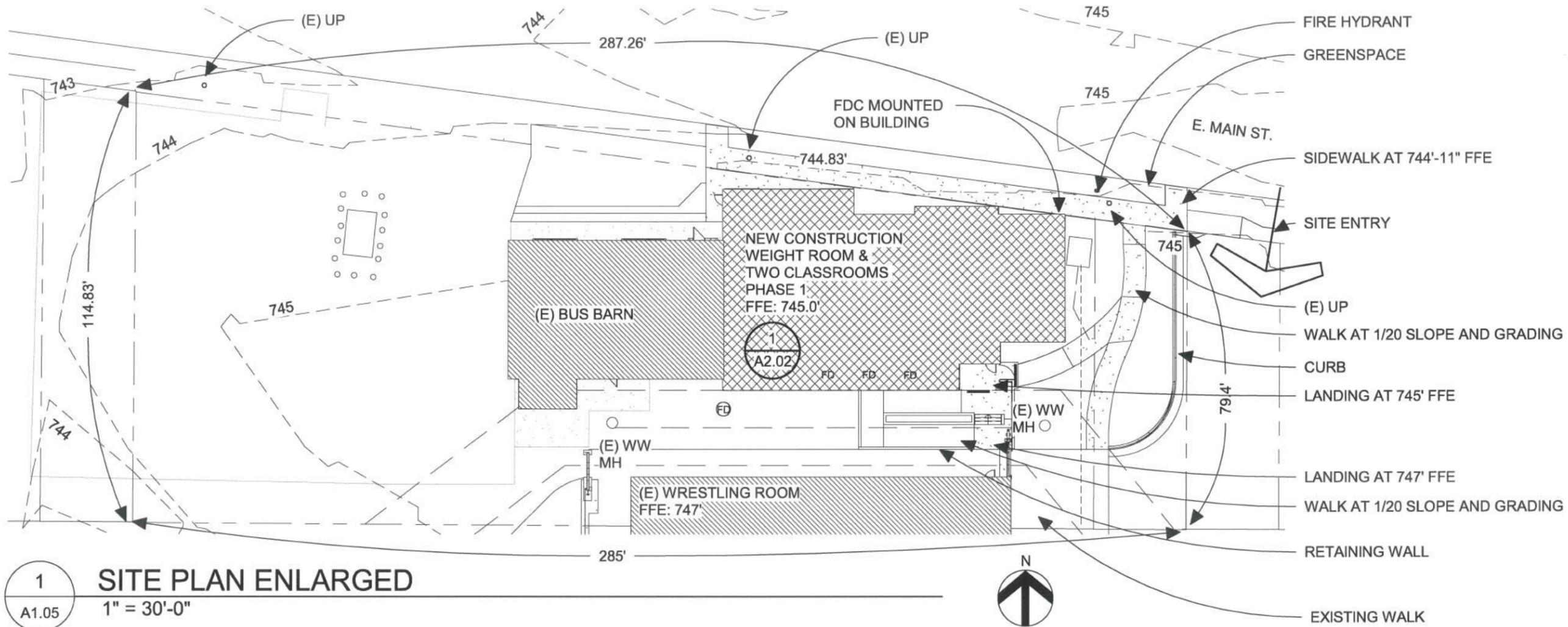
All dimensions are inches (centimeters) unless otherwise indicated.



Front View

Side View

Luminaire	Height (H)	Width (W)	Depth (D)	Side Conduit Location		Weight
				A	B	
WPX1	8.1" (20.6 cm)	11.1" (28.3 cm)	3.2" (8.1 cm)	4.0" (10.3 cm)	0.6" (1.6 cm)	6.1 lbs (2.8kg)
WPX2	9.1" (23.1 cm)	12.3" (31.1 cm)	4.1" (10.5 cm)	4.5" (11.5 cm)	0.7" (1.7 cm)	8.2 lbs (3.7kg)
WPX3	9.5" (24.1 cm)	13.0" (33.0 cm)	5.5" (13.7 cm)	4.7" (12.0 cm)	0.7" (1.7 cm)	11.0 lbs (5.0kg)



1 SITE PLAN ENLARGED
 A1.05 1" = 30'-0"

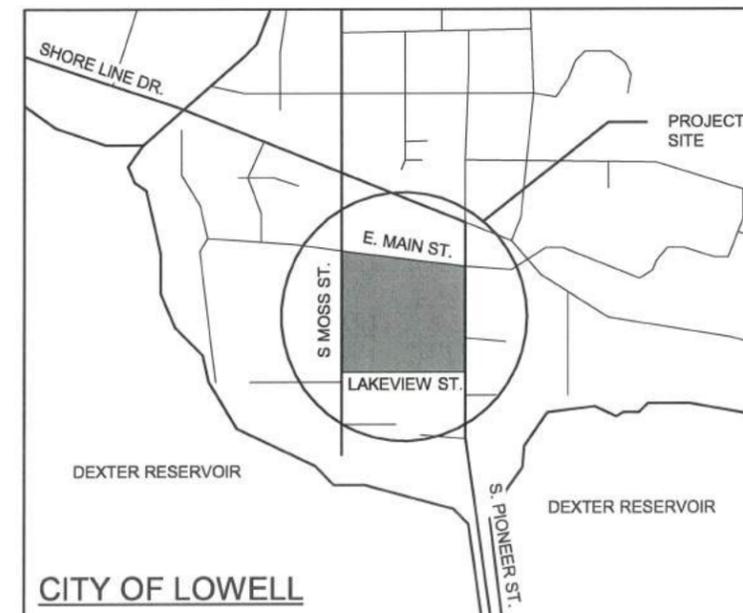


SITE PLAN REQUIREMENTS NOTES

OCCUPANCY LOAD:	<p>PHASE 1 - CLASSROOM SPACE -E: 45 OCCUPANTS</p> <p>PHASE 1 - EXERCISE ROOM -E: 30 OCCUPANTS</p> <p>PHASE 2 - GYM -E: 410 OCCUPANTS (FUTURE)</p>
RETAINING WALL FOR RAMPS:	<p>MAX HEIGHT IS 2'-0" ABOVE FINISHED FLOOR; CONCRETE IS TO BE THE MATERIAL CONSIDERED TO USE. THE CIRCULAR LANDING WILL USE THE MATERIAL CONCRETE FOR THE WALK AND THE BENCH BASE, WITH THE BENCH BEING OF THE MATERIAL WOOD.</p>
LIGHTING:	<p>WALL MOUNTED LIGHTS WITH CUTOFFS, SUFFICIENT TO PROVIDE 1.0 F.C. MINIMUM AT ALL WALKS</p>
GENERATED TRIPS PER DAY:	<p>THIS FACILITY IS EXPECTED TO RESULT IN FOUR ADDITIONAL GENERATED TRIPS. TWO ADDITIONAL CLASSROOMS HAVE BEEN ADDED.</p>
TIME OF OPERATION:	<p>MONDAY-FRIDAY 8AM-3PM, MONDAY-FRIDAY 3-7 AFTER SCHOOL AND COMMUNITY USE, SATURDAY -TIMES MAY VARY DUE TO VARIABLE SCHEDULING.</p>

VICINITY MAP

SCALE: NOT TO SCALE



CONSULTANTS

LOWELL WEIGHT ROOM AND CLASSROOM BUILDINGS
 LOWELL SCHOOL DISTRICT
 SCHEMATIC DESIGN
 65 PIONEER ST., LOWELL, OR 97452

REVISIONS	

ENLARGED SITE PLAN

PROJECT #	DATE
22011	09/07/2022







LOWELL WEIGHT ROOM AND CLASSROOM BUILDINGS

LOWELL SCHOOL DISTRICT
65 PIONEER ST, LOWELL, OR 97452

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ABBREVIATIONS

AB ANCHOR BOLT
AC ASPHALTIC CONCRETE
ACT ACOUSTICAL TILE
AD AREA DRAIN
ADA AMERICAN DISABILITIES ACT
ADJ ADJACENT, ADJUSTABLE
AFF ABOVE FINISH FLOOR
AL ALUMINUM
ALU ALUMINUM
BO BOARD
BO BOTTOM OF
CB CATCH BASIN
CF CEMENT FIBER
CJ CONTROL JOINT
CD CLEAN OUT
CMU CONCRETE MASONRY UNIT
CT CERAMIC TILE
CLS CEILING
CONC CONCRETE
CONT CONTINUOUS
DF DRINKING FOUNTAIN
DIA DIAMETER
DIM DIMENSION
DTL DETAIL
EA EACH
ELEC ELECTRIC
ELEV ELEVATION
ELEV ELEVATION
EQUP EQUIPMENT
(E) EXISTING
EXIST EXISTING
EW EACH WAY
EX EXISTING
EXT EXTERIOR
FD FLOOR DRAIN
FEC FIRE EXTINGUISHER CABINET
FG FIBER GLASS
FINISH FINISH
GALV GALVANIZED
GB GYPSUM BOARD
GYPS GYPSUM
HBO HOSE BIBB
HDG HOT DIPPED GALVANIZED
HM HOLLOW METAL
ID INSIDE DIAMETER
INFO INFORMATION
INSUL INSULATION
INT INTERIOR
MH MANHOLE
MAX MAXIMUM
MECH MECHANICAL
MFR MANUFACTURER
MIN MINIMUM
MISC MISCELLANEOUS
MO MASONRY OPENING
NIC NOT IN CONTRACT
ON CENTER ON CENTER
OC OVERLAP DRAIN, OUTSIDE DIAMETER
OFDI OWNER FURNISHED, CONTRACTOR INSTALLED
OFDI OWNER FURNISHED, OWNER INSTALLED
OSB ORIENTED STRAND BOARD
PC PRECAST CONCRETE
PF PAINT SYSTEM
PS PLACES
PL PLASTER
PLAM PLASTIC LAMINATE
PT PRESSURE TREATED
QT QUARRY TILE
RB RUBBER BASE
RCP REFLECTED CEILING PLAN
REFR REFERENCE
REFR REFRIGERATOR
REQD REQUIRED
REV REVERSE
RM ROOM
SAP SUSPENDED ACOUSTICAL PLANE
SHT SHEET
SM SIMILAR
SS STAINLESS STEEL
STL STEEL
STRUCT STRUCTURAL
SYNTH SYNTHETIC
TME TO MATCH EXISTING
TD TOP OF
TS TUBE STEEL
TYP TYPICAL
UNO UNLESS NOTED OTHERWISE
VCT VINYL COMPOSITION TILE
VP VENEER PLASTER
VTR VENT THROUGH ROOF
W/ WITH

SHEET INDEX

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A0.01 LIFE SAFETY

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C2.01 SITE UTILITY PLAN
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A1.13 ENLARGED SITE PLAN
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F1.00 FIRE PROTECTION PLAN

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T1.05 TECHNOLOGY ENLARGED PLAN
T3.00 TECHNOLOGY DETAILS

MINIMUM PLUMBING FIXTURES

2019 OSBC TABLE 2902.1

REQUIRED:

BUILDING 2:

CLASSROOM SPACE - E, 686 SF EACH CLASSROOM (2 CLASSROOMS IN TOTAL)
45 OCCUPANTS (23 MALE & 23 FEMALE) EACH CLASSROOM
45 X 150 = 0.9 = 1 WC EACH CLASSROOM - 2 PROVIDED
45 X 150 = 0.9 = 1 LAV EACH CLASSROOM - 2 PROVIDED

EXERCISE ROOM - E, 1,357 SF
28 OCCUPANTS (14 MALE & 14 FEMALE)
28 X 150 = 0.56 = 1 WC REQUIRED - 1 PROVIDED
28 X 150 = 0.56 = 1 LAV REQUIRED - 1 PROVIDED

1 FLOOR = 1 DRINKING FOUNTAIN = 1 PROVIDED

ASSESSOR MAP AND TAX LOT NUMBERS

ASSESSOR MAP NUMBER: 19011423
TAX LOT NUMBERS: 8100, 7700

SYMBOLS

DRAWING NUMBER
SIMILAR - IF INDICATED
DETAIL MARK
SHEET NUMBER

DRAWING NUMBER
ELEVATION MARK
SHEET NUMBER

NORTH ARROW

DRAWING NUMBER
SIMILAR - IF INDICATED
SECTION CALLOUT
SHEET NUMBER

Room name / NUMBER

CEILING HEIGHT

GRID CALLOUT

ELEVATION CALLOUT

DOOR SYMBOL

KEYED NOTE



VICINITY MAP

SCALE: NOT TO SCALE



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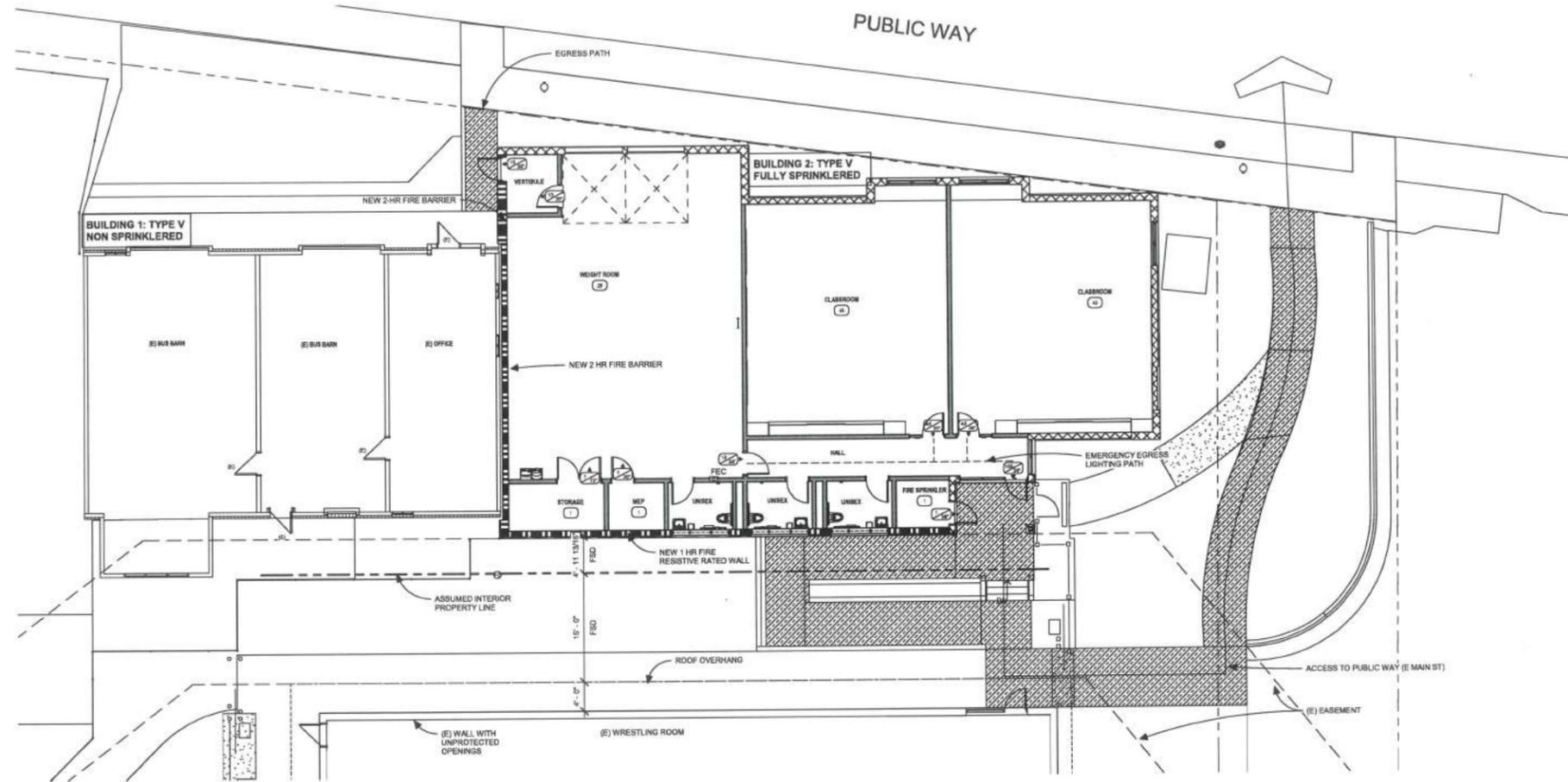
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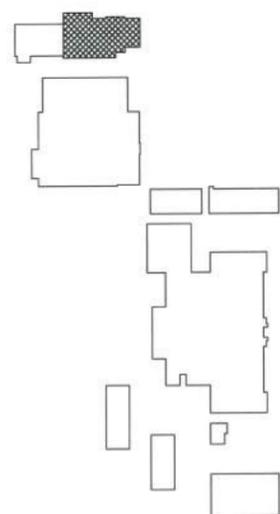
TITLE SHEET

PROJECT #	DATE
22011	09/07/2022

A0.00



1 LIFE SAFETY PLAN
A0.01 1/8" = 1'-0"



KEY PLAN

GENERAL NOTES

- SEE ELECTRICAL DRAWINGS FOR EMERGENCY LIGHTING AND POWER SYSTEMS, FIRE ALARM, EMERGENCY VOICE/ALARM COMMUNICATIONS SYSTEM.

LIFE SAFETY PLAN LEGEND

- ILLUMINATED EXIT LIGHT
- EXIT ILLUSTRATING EGRESS LOAD AND CLEAR WIDTH IN INCHES PROVIDED
- OCCUPANT LOAD OF ROOM
- WALL-MOUNTED FIRE EXTINGUISHER / FIRE EXTINGUISHER CABINET
- 1-HOUR FIRE RESISTIVE RATED WALL
- 2-HOUR RATED FIRE BARRIER
- EMERGENCY PATH TO PUBLIC WAY

MINIMUM PLUMBING FIXTURES

2019 OBCS TABLE 2902.1
REQUIRED:
BUILDING 2:
CLASSROOM SPACE - E, 985 SF EACH CLASSROOM (2 CLASSROOMS IN TOTAL)
 45 OCCUPANTS (23 MALE & 23 FEMALE) EACH CLASSROOM
 45 X 150 = 0.8 = 1 WC EACH CLASSROOM - 2 PROVIDED
 45 X 150 = 0.8 = 1 LAV EACH CLASSROOM - 2 PROVIDED
EXERCISE ROOM - E, 1,367 SF
 28 OCCUPANTS (14 MALE & 14 FEMALE)
 28 X 150 = 0.58 = 1 WC REQUIRED - 1 PROVIDED
 28 X 150 = 0.58 = 1 LAV REQUIRED - 1 PROVIDED
 1/FLOOR = 1 DRINKING FOUNTAIN = 1 PROVIDED

BASIS OF DESIGN / CODE ANALYSIS

2019 OBCS
 BASIS OF DESIGN
 BUILDING 1: S-1 OCCUPANCY (EXISTING) 2,173 SF
 TYPE V-B NON SPRINKLERED
 BUILDING 2: E OCCUPANCY (PHASE 1 NEW) 4,280 SF
 TYPE V-B CONSTRUCTION SPRINKLERED

CHAPTER 5
 BUILDING LIMITATIONS
 THE EXISTING BUILDING IS NOT SEPARATED AND DOES NOT COMPLY WITH THE AREA REQUIREMENTS OF THE CODE. THIS PROJECT WILL UPGRADE EXISTING WALLS TO FIRE WALLS TO CREATE FIRE AREAS THAT ARE IN COMPLIANCE. FIRE WALLS ARE DESIGNATED ON THE LIFE SAFETY PLAN.

BUILDING 1 ALLOWABLE AREA S-1 OCCUPANCY
 $i = [109(192) - 25] (3050) = 58$
 $A_n = [9,500 SF + (9,500 SF \times .08)] = 9,540 SF$
 FLOOR AREA 2,173 SF < 9,540 SF **COMPLES**

BUILDING 2 ALLOWABLE AREA E OCCUPANCY
 $i = [178(208) - 25] (9000) = 22$
 $A_n = [38,000 SF + (9,500 SF \times .22)] = 40,090 SF$
 FLOOR AREA 4,280 SF < 40,090 SF **COMPLES**

PER OBCS TABLE 508.4 2 HOUR SEPARATION REQUIRED BETWEEN S-1 AND E OCCUPANCIES. SEPARATION WILL BE VIA A 2 HOUR FIRE BARRIER WALL.

CHAPTER 7
 FIRE-RESISTANCE RATED CONSTRUCTION
FIRE WALL: PER TABLE 706.4, CLARIFICATION a, FIRE WALLS SHALL BE 2-HOUR FIRE-RESISTANCE RATED IN TYPE V CONSTRUCTION FOR GROUP E.
 PER TABLE 706.8 25% MAX UNPROTECTED OPENINGS (ACTUAL OPENINGS 6%).
 PER 706.5, EXCEPTION 3 NO EXTENSION OF THE FIRE WALLS ARE REQUIRED BECAUSE EXTERIOR SHEATHING AND SIDING ARE NON-COMBUSTIBLE FOR A DISTANCE OF 4'-0" ON BOTH SIDES OF THE FIRE WALL.
 PER 706.6 NO PARAPET REQUIRED PER EXCEPTION 1.

CHAPTER 9
 FIRE PROTECTION
 BUILDING 2 SHALL BE EQUIPPED WITH AN AUTOMATIC FIRE SPRINKLER SYSTEM COMPLYING WITH OBCS 903.2.

CHAPTER 10
 EGRESS
 USE MIN 3'-0" WIDE DOORS TO COMPLY WITH SECTION 1010.1.1 AND ADA
 PROVIDE A TACTILE EXIT SIGN COMPLYING WITH ICC A117.1 ADJACENT TO EACH DOOR AT THE EXIT DISCHARGE, REFERENCE PLANS AND SCHEDULES.
 PER TABLE 1020.1 THE CORRIDOR FIRE RESISTANCE RATED CONSTRUCTION IS NOT REQUIRED WITH AN INSTALLED FIRE SPRINKLER SYSTEM.
 TRAVEL DISTANCE TO EXIT ACCESS DOES NOT EXCEED 250' PER TABLE 1017.2.
 SEE LIFE SAFETY PLAN ON THIS SHEET FOR OCCUPANT LOADS, EGRESS WIDTHS, AND TRAVEL DISTANCES.

CHAPTER 11
 ACCESSIBILITY
 SEE FLOOR PLANS, ENLARGED FLOOR PLANS, AND INTERIOR ELEVATIONS FOR TOILET ROOM CLEARANCES AND ACCESSIBILITY COMPLIANCE.
 CONTROLS OPERATING MECHANISMS AND HARDWARE INTENDED FOR OPERATION BY THE OCCUPANT, INCLUDING SWITCHES THAT CONTROL LIGHTING AND VENTILATION AND ELECTRICAL CONVENIENCE OUTLETS, IN ACCESSIBLE SPACES, ALONG ACCESSIBLE ROUTES OR AS PARTS OF ACCESSIBLE ELEMENTS SHALL BE ACCESSIBLE PER OBCS SECTION 1109.13.
 SEE PROPOSED FLOOR PLANS, DETAILS, AND SCHEDULES FOR ADDITIONAL INFORMATION.

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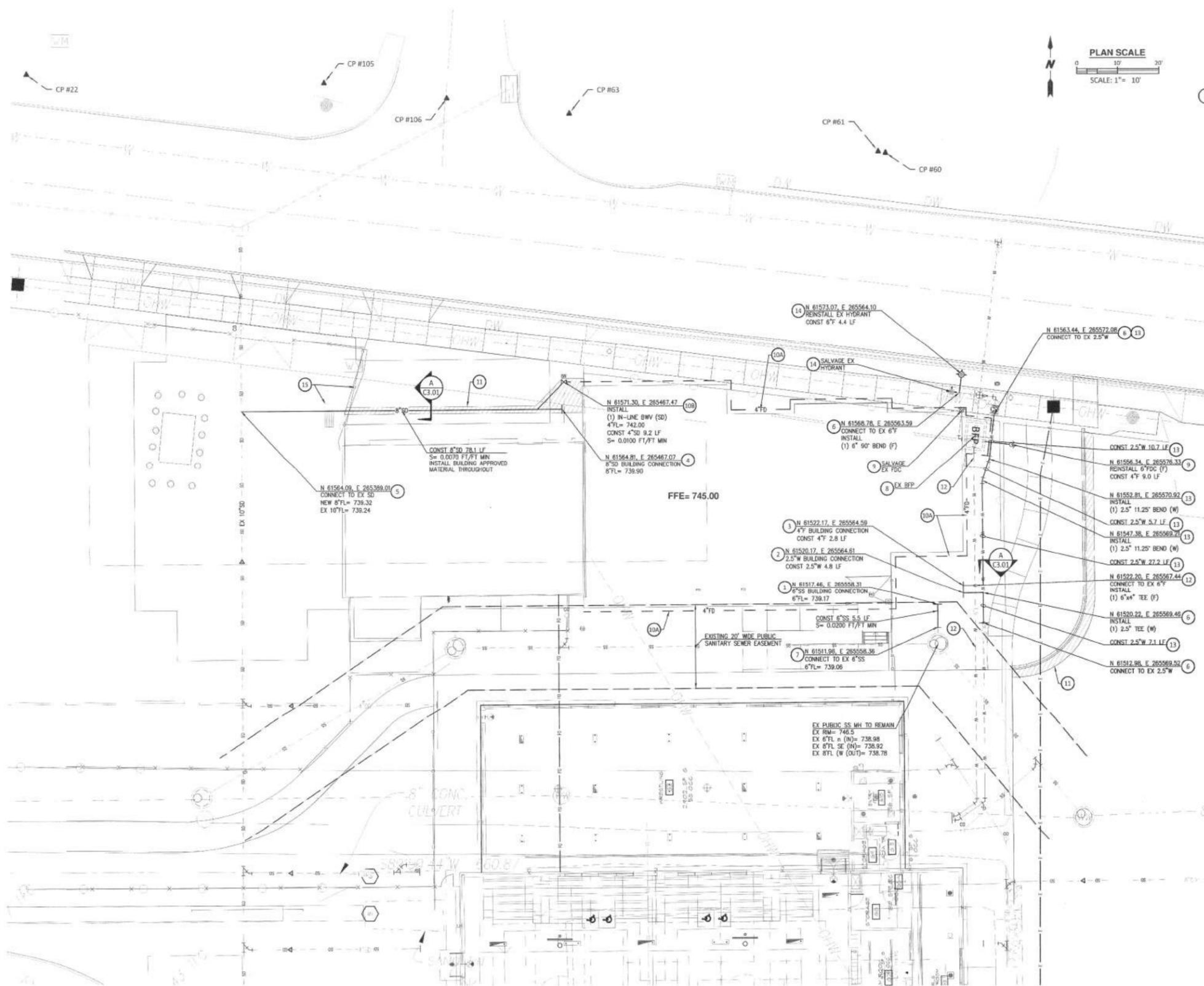
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LIFE SAFETY

PROJECT #	DATE
22011	09/07/2022

A0.01

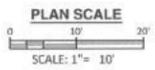


SHEET NOTES

1. REFER TO SHEET CLOJ FOR EROSION AND SEDIMENTATION CONTROL NOTES AND SEDIMENTATION CONTROL DETAILS.
2. ALL SANITARY SEWER AND STORM DRAIN LATERAL CONNECTIONS TO BE CONSTRUCTED USING WYE FITTINGS OR MANHOLES, UNLESS OTHERWISE NOTED ON PLAN. ALL HORIZONTAL BENDS GREATER THAN 45° TO BE CONSTRUCTED USING COMBINATIONS OF 45° FITTINGS OR SMALLER.
3. BACKFILL USING CDF WHERE COMPACTION OF CRUSHED ROCK BACKFILL CANNOT BE ACHIEVED. ENSURE UTILITY STRUCTURES WITH ADJOINING CONCRETE WORK. COORDINATE BETWEEN TRADES TO ENSURE CONSISTENT HORIZONTAL CONTROL IS USED.

CONSTRUCTION NOTES

1. BUILDING SANITARY SEWER CONNECTION. PLUG END OF PIPE WITH MECHANICAL PLUG AND MARK FOR REFERENCE. COORDINATE FINAL LOCATION AND ELEVATION WITH BUILDING PLUMBER. REFER TO PLUMBING DRAWINGS FOR CONTINUATION.
2. BUILDING DOMESTIC WATER CONNECTION. PLUG END OF PIPE WITH MECHANICAL PLUG AND MARK FOR REFERENCE. COORDINATE FINAL LOCATION AND ELEVATION WITH BUILDING PLUMBER. REFER TO PLUMBING DRAWINGS FOR CONTINUATION.
3. BUILDING FIRE PROTECTION CONNECTION. PLUG END OF PIPE WITH MECHANICAL PLUG AND MARK FOR REFERENCE. COORDINATE FINAL LOCATION AND ELEVATION WITH BUILDING PLUMBER. REFER TO PLUMBING DRAWINGS FOR CONTINUATION.
4. BUILDING STORM DRAIN CONNECTION. PLUG END OF PIPE WITH MECHANICAL PLUG AND MARK FOR REFERENCE. COORDINATE FINAL LOCATION AND ELEVATION WITH BUILDING PLUMBER. REFER TO PLUMBING DRAWINGS FOR CONTINUATION.
5. CONNECT TO EXISTING STORM PIPE.
6. CONNECT TO EXISTING WATER OR FIRE PIPE. COORDINATE SHUTDOWN OF SERVICE WITH SCHOOL DISTRICT AND FIRE MARSHAL (WHERE APPLICABLE).
7. CONNECT TO EXISTING SANITARY SEWER STUB.
8. EXISTING FIRE BACKFLOW PREVENTER AND VAULT TO REMAIN. PROTECT IN PLACE.
9. RELOCATE EXISTING FIRE DEPARTMENT CONNECTION TO EAST SIDE OF BACKFLOW PREVENTER VAULT. CORE NEW PENETRATION ON EAST SIDE OF VAULT AND REDIRECT BRANCH TEE TO THE EAST. PATCH EXISTING HOLE IN THE WEST SIDE OF THE VAULT. REINSTALL FDC RISER PER DETAIL 2/C3.0J.
- 10A. PERIMETER FOUNDATION DRAIN. REFER TO ARCHITECTURAL AND STRUCTURAL PLANS FOR LOCATION AND INSTALLATION.
- 10B. INSTALL IN-LINE BACKWATER VALVE WITH ACCESS COVER PER DETAIL 4/C3.0J.
11. SAWCUT EXISTING PAVEMENT PER DETAIL 3/C3.0J AS NEEDED TO CONSTRUCT NEW IMPROVEMENTS. INSTALL NEW ASPHALT PAVEMENT AS SPECIFIED MATCHING EXISTING EXISTING CROSS SECTION. WHERE TRENCHING THROUGH CONCRETE PAVEMENT, SAWCUT ALONG EXISTING JOINT LINES AND REPLACE IN FULL PANELS TO MATCH THE EXISTING CONDITION.
12. POTHOLE EXISTING FIRE SERVICE AT THREE LOCATIONS (MINIMUM) PRIOR TO CONSTRUCTION TO CONFIRM DEPTH AND TO VERIFY EXISTING PIPE MATERIAL IS PVC ANNA COOD PIPE. INCLUDE AN ALLOWANCE TO REPLACE ALL FIRE PIPING WITHIN 5.0 FEET OF THE NEW BUILDING FOOTPRINT WITH BUILDING APPROVED MATERIAL.
13. REPLACE EXISTING DOMESTIC WATER PIPING WITHIN 5.0 FEET OF THE NEW BUILDING WITH BUILDING APPROVED MATERIAL AS SPECIFIED.
14. SALVAGE EXISTING HYDRANT AND REINSTALL PER DETAIL 1/C3.0J.
15. REFER TO ARCHITECTURAL PLANS FOR REMOVAL OF EXISTING FENCING AND OTHER SITE FEATURES.



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www.mazzetti.com

Project Number: 025-600193

**LOWELL WEIGHT ROOM AND CLASSROOM BUILDINGS
LOWELL SCHOOL DISTRICT
CONSTRUCTION DOCUMENTS
65 PIONEER ST, LOWELL, OR 97452**

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NO	DESCRIPTION	DATE

SITE UTILITY PLAN

PROJECT # **22011** DATE **08/22/2022**

HORIZONTAL CONTROL POINTS

POINT	NORTHING	EASTING	ELEVATION	DESCRIPTION
CP #22	61645.31	285330.33	743.21	CTRL_H_T
CP #60	61626.78	285543.63	745.13	F_BR-CAP USGS 3.5 J362 1942
CP #61	61627.13	285543.63	745.07	F_S/BR
CP #63	61636.19	285468.66	744.20	F_S/BR
CP #105	61643.42	285408.92	743.54	F_S/BR GEOMAX
CP #108	61638.78	285438.74	743.74	F_S/BR RPC WORN OUT

LEGEND

ASPHALT PATCHING - SAWCUT AND PATCH ASPHALT SURFACING PER CONSTRUCTION NOTE 11.

WATER SYSTEM DESIGN DATA

FLOW TEST INFORMATION

1. DATE OF TEST: <xx/xx/xx>
2. TEST LOCATION: <xxx Main Street>
3. STATIC/RESIDUAL PRESSURE AND FLOW: <xx/xx> psi @ <xxxx> gpm
4. CALCULATED FLOW AT 20 psi: <xxxx> gpm

DOMESTIC SYSTEM

1. PEAK DOMESTIC WATER DEMAND= 39 gpm (DOES NOT INCLUDE IRRIGATION DEMAND)

FIRE SYSTEM

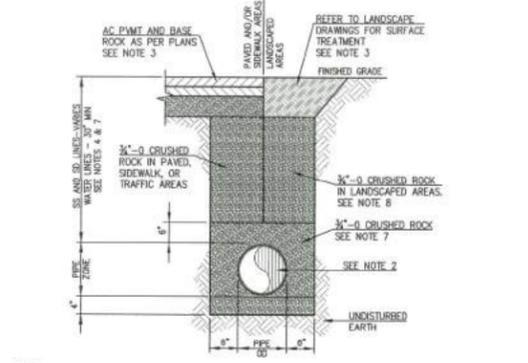
1. LARGEST BUILDING AREA: 4,228 sq.ft.
2. BUILDING CONSTRUCTION TYPE: TYPE V-B
3. BUILDING TO BE FULLY SPRINKLERED.
4. MINIMUM REQUIRED FIRE FLOW: 1,500 gpm
5. NUMBER OF HYDRANTS: 1 (FOR TABLE B105.1 AND APPENDICES B AND C, 2007 OREGON FIRE CODE)
6. FIRE MARSHAL'S REVIEW
 - A. FIRE SYSTEM DESIGN REVIEWED WITH FIRE MARSHAL'S OFFICE: <YES/NO/NA>
 - B. DATE OF REVIEW: <xx/xx/xx OR NA>
 - C. NAME OF CONTACT: <XXXX OR NA>

FLOW TEST DATA: FIRE SPRINKLER CONTRACTOR TO VERIFY FLOW DATA (STATIC PRESSURE, RESIDUAL PRESSURE, AND CPM FLOWING) AVAILABLE AT SITE PER NFPA 13.24.2.3.3 AND PROVIDE A DESIGN FOR AVAILABLE PRESSURE AND FLOW.

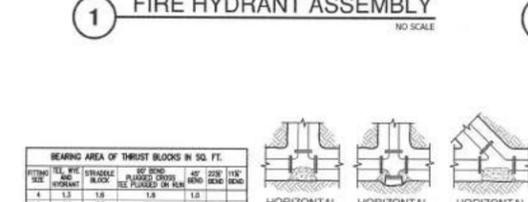
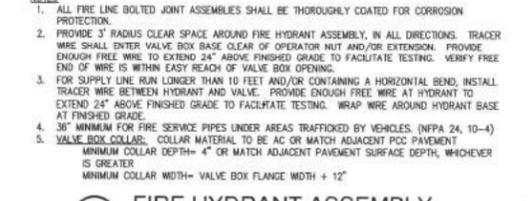
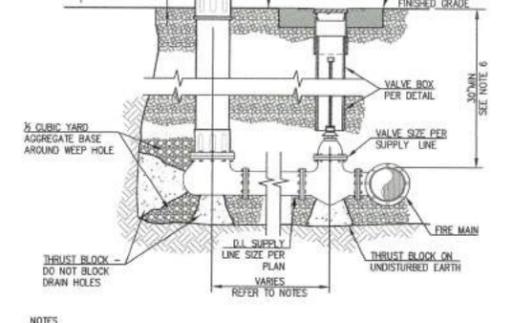
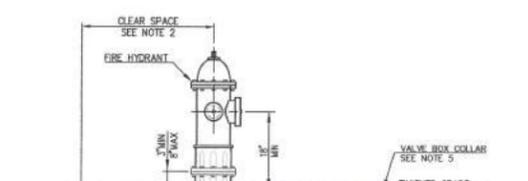
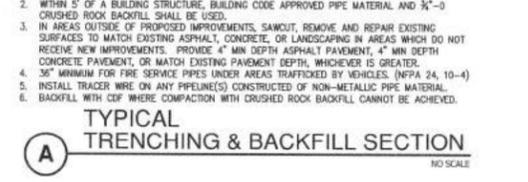
C2.01

GENERAL NOTES:

- EXISTING TOPOGRAPHIC INFORMATION FROM SURVEY PREPARED BY BRANCH ENGINEERING, INC. TITLED "EXISTING CONDITIONS SURVEY FOR LOWELL SCHOOL DISTRICT" DATED 9/21/18.
- BASIS OF BEARING: COORDINATES ARE BASED ON THE OREGON COORDINATE REFERENCE SYSTEM - EUGENE PROJECTION 2011 (EPOCH 2010).
- BASIS OF ELEVATION: ELEVATIONS ARE BASED ON RTK GPS OBSERVATIONS TAKEN ON AUGUST 28, 2018 USING THE OREGON REAL-TIME GEODETIC NETWORK AND GEOID 12A (NAD83).
- THE CONTRACTOR SHALL LOCATE AND MARK ALL EXISTING PROPERTY AND STREET MONUMENTS PRIOR TO CONSTRUCTION. ANY MONUMENTS DISTURBED DURING CONSTRUCTION OF THE PROJECT SHALL BE REPLACED BY A REGISTERED LAND SURVEYOR AT THE CONTRACTOR'S EXPENSE. THE MONUMENTS SHALL BE REPLACED WITHIN A MAXIMUM OF 90 DAYS, AND THE COUNTY SURVEYOR SHALL BE NOTIFIED IN WRITING AS REQUIRED BY ORS 209.150.
- LOCATIONS OF EXISTING UTILITIES ARE ASSUMED FROM INFORMATION AVAILABLE AND ARE NOT GUARANTEED TO BE COMPLETE AND ACCURATE. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE LOCATION OF EXISTING UTILITIES.
- PRIOR TO CONSTRUCTION, POTHOLE AND VERIFY LOCATION AND ELEVATION OF EXISTING STORM, SANITARY, AND WATER UTILITIES AT CONNECTION POINT(S) SHOWN ON PLANS, AND OF OTHER UTILITIES AT CROSSINGS WITH NEW UTILITIES. NOTIFY ENGINEER OF ANY DISCREPANCIES BETWEEN PLANS AND FIELD CONDITIONS.
- CONTRACTOR SHALL NOTIFY EACH UNDERGROUND UTILITY PRIOR TO EXCAVATING, BORING, OR POT-HOLING. ATTENTION: OREGON LAW REQUIRES THE CONTRACTOR TO FOLLOW RULES ADOPTED BY THE OREGON UTILITY NOTIFICATION CENTER. THOSE RULES ARE SET FORTH IN O.A.R. 952-001-0010 - 952-001-0090. THE CONTRACTOR MAY OBTAIN COPIES OF THE RULES BY CALLING THE CENTER. (NOTE: THE TELEPHONE NUMBER FOR THE OREGON UTILITY NOTIFICATION CENTER IS 1-800-332-2344)
- CONTRACTOR SHALL MAKE THE NECESSARY ARRANGEMENTS AND COMPLY WITH REQUIREMENTS AND SPECIFICATIONS OF ANY RESPECTIVE UTILITY COMPANY FOR UTILITIES TO BE CUT, MOVED, RELOCATED, OR RE-CONNECTED TO AN EXISTING FACILITY.
- CONTRACTOR IS RESPONSIBLE FOR COORDINATING WITH ANY SERVING UTILITY COMPANY INSTALLING UTILITIES ON SITE. CONSTRUCTION OF OTHER UTILITIES MAY OCCUR AT SAME TIME ON SITE.
- CONTRACTOR SHALL COORDINATE WITH PLUMBING INSPECTOR PRIOR TO CONNECTION OF PRIVATE SANITARY SEWER PIPING TO EXISTING PUBLIC SANITARY SEWER SYSTEM.
- QUANTITIES SHOWN ARE FOR THE PURPOSE OF IDENTIFYING LENGTHS. ACTUAL QUANTITIES MAY VARY. CONTRACTOR TO PROVIDE QUANTITIES NEEDED FOR LAYOUT OF SYSTEM.
- CONTRACTOR SHALL PROVIDE AND INSTALL FITTINGS AS REQUIRED TO COMPLETE PIPE CONNECTIONS AND TRANSITIONS PER PLAN, AND TO CONFORM TO TRENCHING REQUIREMENTS AND SITE GRADES.
- MANHOLE AND CLEANOUT RIM ELEVATIONS ARE APPROXIMATE. FINAL ELEVATIONS MAY VARY AND SHALL MATCH FINISHED ELEVATIONS OF ADJACENT SURFACES.
- COORDINATE FINAL ROOF DRAIN/DOWNSPOUT LOCATIONS AND ELEVATIONS WITH ARCHITECTURAL/MECHANICAL DRAWINGS. COORDINATE FOOTING DRAIN LOCATIONS AND ELEVATIONS WITH ARCHITECTURAL/STRUCTURAL DRAWINGS AND DETAILS.
- TRACER WIRE SHALL ENTER ALL MANHOLE, CATCH BASIN, INLET, CLEANOUT, AND VALVE BOX STRUCTURES. EXTEND TRACER WIRE INTO STRUCTURE FAR ENOUGH TO PROVIDE ADEQUATE FREE WIRE TO EXTEND END OF WIRE 24" ABOVE/OUTSIDE OF STRUCTURE TO FACILITATE TESTING. COIL AND SECURE TRACER WIRE WITHIN EASY REACH OF STRUCTURE OPENING. VERIFY WIRE IS CLEAR OF ALL FILL MATERIAL IN CLEANOUT AND VALVE BOX STRUCTURES.
- ALL STORM DRAIN AND SANITARY SEWER LATERAL CONNECTIONS TO BE CONSTRUCTED USING WYE FITTINGS OR MANHOLES. HORIZONTAL BENDS SHALL BE MADE USING FITTINGS WITH MAXIMUM 45° BEND.
- CAP AND MARK ALL STORM PIPE ENDS WITH A 2"x4" BOARD STUCK IN GROUND. END OF BOARD SHALL BE PAINTED WHITE AND EXTEND MINIMUM 18" ABOVE GROUND SURFACE.
- CAP AND MARK ALL SANITARY SEWER PIPE ENDS WITH A 2"x4" BOARD STUCK IN GROUND. END OF BOARD SHALL BE PAINTED GREEN AND EXTEND MINIMUM 18" ABOVE GROUND SURFACE.
- CAP AND MARK ALL DOMESTIC WATER, FIRE SERVICE, AND/OR IRRIGATION SERVICE PIPE ENDS WITH A 2"x4" BOARD STUCK IN GROUND. END OF BOARD SHALL BE PAINTED BLUE AND EXTEND MINIMUM 18" ABOVE GROUND SURFACE.
- PROVIDE MECHANICAL JOINT RESTRAINT AT ALL DOMESTIC WATER/FIRE SERVICE FITTINGS AND PIPE JOINTS AS DIRECTED ON PLANS AND IN SPECIFICATIONS.
- WATER PIPES CROSSING SANITARY SEWER AND/OR STORM DRAINAGE PIPING: WATER PIPES CROSSING SEWER OR DRAINAGE PIPING CONSTRUCTED OF CLAY OR MATERIALS THAT ARE NOT APPROVED FOR USE WITHIN A BUILDING SHALL BE LAID A MINIMUM OF 12" ABOVE THE SEWER OR DRAIN PIPE. WHERE MINIMUM SEPARATION CANNOT BE MET, SANITARY SEWER AND/OR STORM DRAIN LINE SHALL BE CONSTRUCTED OF MATERIAL APPROVED FOR USE UNDER BUILDINGS, WITH A FULL LENGTH OF PIPE CENTERED AT THE CROSSING POINT, AND EXTENDING 10' MIN EACH SIDE OF CROSSING.
- ALL DOMESTIC WATER AND/OR FIRE SERVICE BOLTED JOINT ASSEMBLIES SHALL BE THOROUGHLY COVERED IN ASPHALTIC COATING FOR CORROSION PROTECTION.
- ALL VALVES CONTROLLING CONNECTIONS TO WATER SUPPLIES AND TO SUPPLY PIPES TO SPRINKLERS (INCLUDING HOT TAP CONNECTION ASSEMBLIES) SHALL BE LISTED INDICATING VALVES PER NFPA 24 SECTION 6.1.1.
- PRIOR TO COMMENCING ANY VERTICAL, COMBUSTIBLE CONSTRUCTION, FIRE SERVICE LINE (INCLUDING ALL FIRE HYDRANTS) SHALL BE CONSTRUCTED, INSPECTED, TESTED, AND IN FULL OPERATION.
- FIRE LINE TESTING:
 - FLUSHING - ALL UNDERGROUND PIPING, FROM THE WATER SUPPLY TO THE SYSTEM RISER, SHALL BE FLUSHED PER NFPA 24 SECTION 10.10.2.1.
 - HYDROSTATIC TESTING - ALL PIPING AND ATTACHED APPURTENANCES SUBJECT TO SYSTEM WORKING PRESSURE SHALL BE HYDROSTATICALLY TESTED PER NFPA 24 SECTION 10.10.2.2 - SECTION 10.10.2.4.
 - CONDUCT A PRE-PRESSURE TEST TO VERIFY JOINT TIGHTNESS BEFORE CALLING FOR A FIRE INSPECTION.
 - COMPLETE INSTALLATION CERTIFICATION FORM AND HAVE FORM AVAILABLE ON-SITE PRIOR TO FIRE INSPECTION.
 - BACKFLOW PREVENTION ASSEMBLIES SHALL BE FORWARD FLOW TESTED PER NFPA 24 SECTION 10.10.2.5.
- FIRE LINE APPROVAL: CONTRACTOR SHALL PROVIDE THE ARCHITECT WITH SIX (6) SETS OF SHOP DRAWINGS COMPLYING WITH CITY OF EUGENE FIRE DEPARTMENT "PRIVATE WATER SYSTEM REVIEW CHECK LIST" NFPA 24 LATEST EDITION. AFTER ARCHITECT'S REVIEW, SUBMIT THREE (3) COPIES OF SHOP DRAWINGS TO CITY CODE ANALYST. CITY CODE ANALYST WILL FORWARD SHOP DRAWINGS TO FIRE DEPARTMENT FOR REVIEW AND APPROVAL. SHOP DRAWINGS SHALL INCORPORATE ALL INFORMATION REQUIRED BY THE "PRIVATE WATER SYSTEM REVIEW CHECK LIST", INCLUDING, BUT NOT LIMITED TO, THE FOLLOWING: PIPE SIZES, MATERIALS, LOCATIONS, AND DEPTH OF BURY; FIRE HYDRANT TYPES AND LOCATIONS; FIRE DEPARTMENT CONNECTION TYPE AND LOCATIONS; PIPE RESTRAINT TYPES (THRUST BLOCKS OR MECHANICAL JOINT RESTRAINT), SIZES, AND LOCATIONS.
- REFER TO SHEETS C1.01 THROUGH C1.03 FOR EROSION SEDIMENT CONTROL MEASURES AND ADDITIONAL CONSTRUCTION REQUIREMENTS.
- PRIOR TO EXTENDING NEW SANITARY SEWER SERVICE FROM AN EXISTING SEWER LATERAL, FLUSH AND CLEAN LATERAL, THEN TV FULL LENGTH OF EXISTING LATERAL TO CONNECTION WITH EXISTING PUBLIC MAIN. TV INSPECTION OF THE EXISTING CONDITIONS IS TO BE COORDINATED WITH ENGINEER.
- CONTRACTOR SHALL INCLUDE DEMOLITION OF EXISTING PRIVATE STORM DRAIN, SANITARY SEWER, AND WATER UTILITIES. REMOVE EXISTING STRUCTURES WHERE ENCOUNTERED. CUT AND CAP EXPOSED ENDS OF EXISTING PIPES ENCOUNTERED. (ABANDON EXISTING PIPE IN PLACE IN ALL AREAS EXCEPT UNDER NEW BUILDINGS. REMOVE EXISTING PIPES BENEATH NEW BUILDINGS.)



- NOTES**
- WATER LINES THAT PARALLEL SANITARY SEWER LINES SHALL BE LOCATED A MINIMUM OF 12" ABOVE SEWER LINES, WHERE SERVICES ARE NOT HORIZONTALLY SEPARATED BY 10'.
 - WITHIN 5' OF A BUILDING STRUCTURE, BUILDING CODE APPROVED PIPE MATERIAL AND 3/4"-Ø CRUSHED ROCK BACKFILL SHALL BE USED.
 - IN AREAS OUTSIDE OF PROPOSED IMPROVEMENTS, SAWCUT, REMOVE AND REPAIR EXISTING SURFACES TO MATCH EXISTING ASPHALT, CONCRETE, OR LANDSCAPING IN AREAS WHICH DO NOT RECEIVE NEW IMPROVEMENTS. PROVIDE 4" MIN DEPTH ASPHALT PAVEMENT, 4" MIN DEPTH CONCRETE PAVEMENT, OR MATCH EXISTING PAVEMENT DEPTH, WHICHEVER IS GREATER.
 - 30" MINIMUM FOR FIRE SERVICE PIPES UNDER AREAS TRAFFICKED BY VEHICLES. (NFPA 24, 10-4)
 - INSTALL TRACER WIRE ON ANY PIPE(LINE)S CONSTRUCTED OF NON-METALLIC PIPE MATERIAL.
 - BACKFILL WITH CDE WHERE COMPACTION WITH CRUSHED ROCK BACKFILL CANNOT BE ACHIEVED.



BEARING AREA OF THRUST BLOCKS IN SQ. FT.

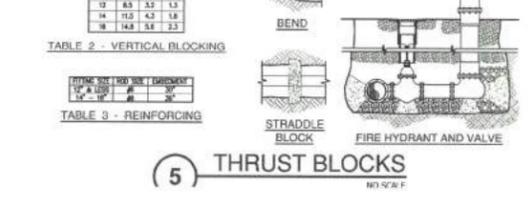
FITTING SIZE	HORIZONTAL			VERTICAL		
	TEE	CROSS	WYE	TEE	CROSS	BEND
4"	1.3	1.6	1.8	1.3	1.6	1.8
6"	2.4	3.1	3.5	2.4	3.1	3.5
8"	3.6	4.6	5.1	3.6	4.6	5.1
10"	4.8	6.1	6.8	4.8	6.1	6.8
12"	6.0	7.7	8.5	6.0	7.7	8.5
14"	7.2	9.2	10.1	7.2	9.2	10.1
16"	8.4	10.7	11.7	8.4	10.7	11.7
18"	9.6	12.2	13.3	9.6	12.2	13.3
20"	10.8	13.7	14.9	10.8	13.7	14.9
24"	12.9	16.4	17.9	12.9	16.4	17.9
30"	16.2	20.5	22.4	16.2	20.5	22.4

THRUST BLOCK VOLUMES (CU. YD.)

FITTING SIZE	HORIZONTAL			VERTICAL		
	TEE	CROSS	BEND	TEE	CROSS	BEND
4"	0.1	0.1	0.1	0.1	0.1	0.1
6"	0.2	0.2	0.2	0.2	0.2	0.2
8"	0.3	0.3	0.3	0.3	0.3	0.3
10"	0.4	0.4	0.4	0.4	0.4	0.4
12"	0.5	0.5	0.5	0.5	0.5	0.5
14"	0.6	0.6	0.6	0.6	0.6	0.6
16"	0.7	0.7	0.7	0.7	0.7	0.7
18"	0.8	0.8	0.8	0.8	0.8	0.8
20"	0.9	0.9	0.9	0.9	0.9	0.9
24"	1.1	1.1	1.1	1.1	1.1	1.1
30"	1.4	1.4	1.4	1.4	1.4	1.4

REINFORCING

FITTING SIZE	MINIMUM	
	LENGTH	DIAMETER
4"	12"	#3
6"	18"	#4
8"	24"	#5
10"	30"	#6
12"	36"	#7
14"	42"	#8
16"	48"	#9
18"	54"	#10
20"	60"	#11
24"	72"	#14
30"	84"	#18



CIVIL SYMBOLS AND ABBREVIATIONS LIST

SYMBOL	ABBR.	DESCRIPTION	SYMBOL	ABBR.	DESCRIPTION	SYMBOL	ABBR.	DESCRIPTION
12"SD	SD	STORM DRAIN	WH	WH	MANHOLE STRUCTURE	AC	AC	ASPHALT CONCRETE
8"SS	SS	SANITARY SEWER	CB	CB	SINGLE CHAMBER CATCH BASIN	BLDG	BLDG	BUILDING
4"W	W	DOMESTIC WATER	CCCB	CCCB	DOUBLE CHAMBER CATCH BASIN	BMP	BMP	BEST MANAGEMENT PRACTICE
6"FS	F	FIRE SERVICE	CI	CI	CURB INLET	COP	COP	COMPOUND CURVATURE POINT
4"FD	FD	FIRE DEPARTMENT CONNECTION	AD	AD	AREA DRAIN (ROUND OR SQUARE)	CL	CL	CENTERLINE
SP	SP	BFP VAULT SUMP PUMP DISCHARGE LINE	DD	DD	DECK DRAIN	CONC	CONC	CONCRETE
→	→	FLOW DIRECTION ARROW	TD	TD	TRENCH DRAIN CONNECTION/CATCH BASIN	CONST	CONST	CONSTRUCT
—	—	NATURAL GAS SERVICE	CO	CO	STANDARD CLEANOUT	DC	DC	DOUBLE CHECK (BFP)
—	—	IRRIGATION SLEEVE	VOC	VOC	VERTICAL DROP CLEANOUT	DDC	DDC	DOUBLE CHECK DETECTOR (BFP)
—	—	IRRIGATION LINE	BWV	BWV	BACKWATER VALVE	DI	DI	DUCTILE IRON PIPE MATERIAL
C/G	C/G	CURB OR CURB/GUTTER	—	—	PIPE TERMINATION (PLUG & MARK)	DIA	DIA	DIAMETER
D	D	DITCH FLOWLINE	ELEV	ELEV	ELEVATION	RM	RM	STRUCTURE RIM ELEVATION
LMT	LMT	LIMITS OF CONSTRUCTION	BFP	BFP	BACKFLOW PREVENTER & VAULT	RP	RP	REDUCED PRESSURE
SC	SC	PAVEMENT REMOVAL SAWCUT LINE	M	M	DOMESTIC METER	RPDC	RPDC	REDUCED PRESSURE DOUBLE CHECK (BFP DEVICE) RIGHT
DET	DET	DETAIL REFERENCE - DETAIL # OVER SHEET #	GV	GV	GATE VALVE (WITH VALVE BOX)	RT	RT	REDUCED PRESSURE DOUBLE CHECK (BFP DEVICE) LEFT
—	—	CONSTRUCTION NOTE WITH REFERENCE NUMBER	CV	CV	CHECK VALVE (WITH DIRECTION OF FLOW)	S=	S=	SLOPE=
—	—	SECTION REFERENCE - SECTION # OVER SHEET #	PI	PI	POST INDICATOR FIRE SERVICE VALVE	SOH	SOH	SCHEDULE
			BO	BO	BLOW-OFF VALVE ASSY	SHT	SHT	SHEET
			FD	FD	FIRE HYDRANT ASSY	STD	STD	STANDARD
			FDC	FDC	FIRE DEPT CONNECTION (SINGLE/SAMESEX)	SW	SW	SIDEWALK
			HS	HS	HOSE BIBB OR FAUCET	TC	TC	TOP OF CURB ELEVATION
			—	—	PIPE TERMINATION (PLUG & MARK)	TP	TP	TOP OF PAVEMENT ELEVATION
						TW	TW	TOP OF WALK ELEVATION
						TWALL	TWALL	TOP OF WALL ELEVATION
						TYP	TYP	TYPICAL
						(425.62)	(425.62)	ASSUMED TOP OF CURB ELEVATION AT LOWERED SIDEWALK RAMP/DREWAY



115 West 8th Avenue, Suite 285
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541.686.2014

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CONSULTANTS



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TEL: 541.686.8478
www.mazzetti.com
Project Number: 025-600193

LOWELL WEIGHT ROOM AND CLASSROOM BUILDINGS
LOWELL SCHOOL DISTRICT
CONSTRUCTION DOCUMENTS
65 PIONEER ST, LOWELL, OR 97452

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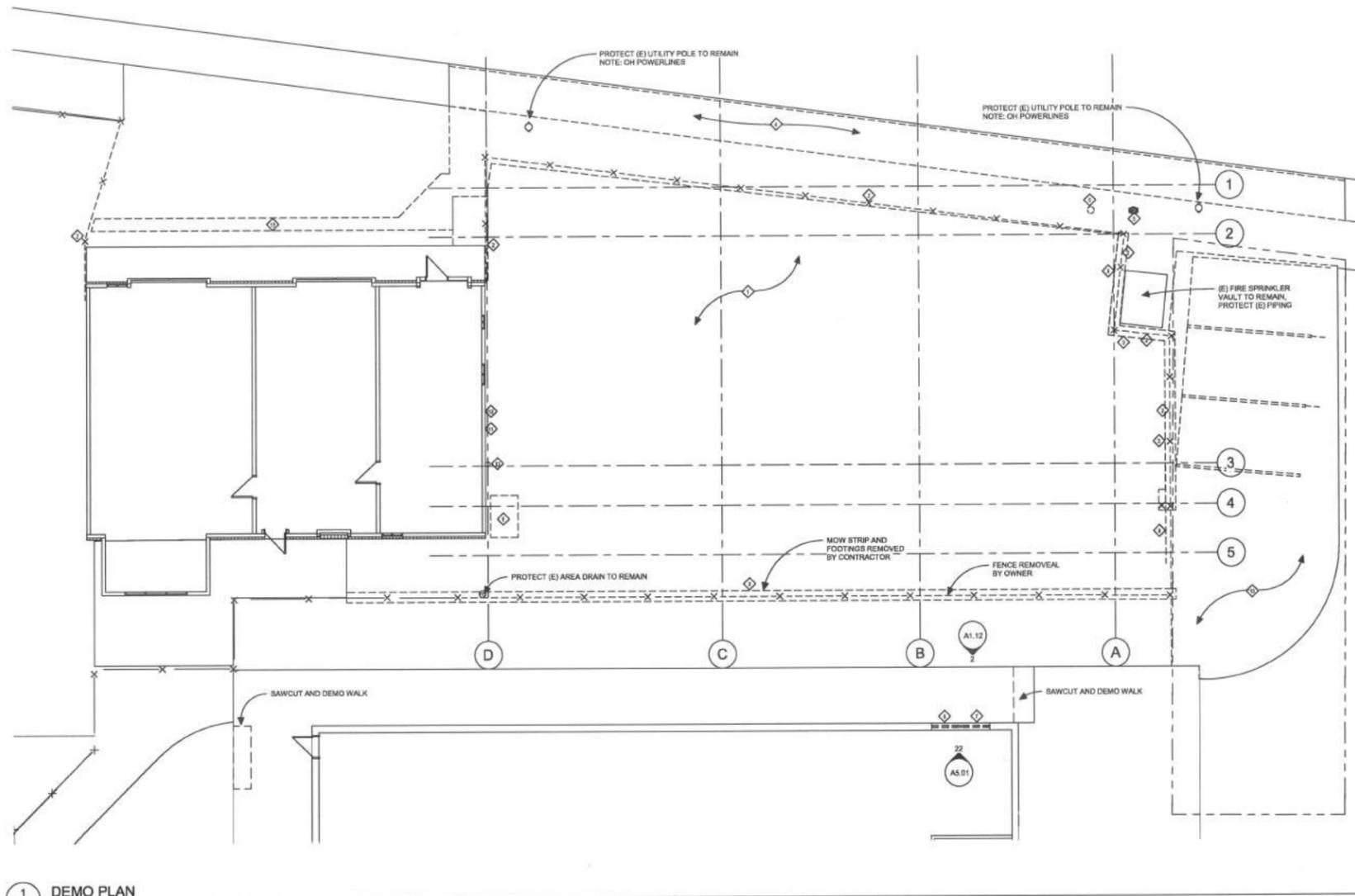
REVISIONS

NO	DESCRIPTION	DATE

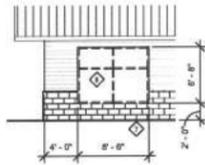
CIVIL GENERAL NOTES, LEGENDS, AND DETAILS

PROJECT #	DATE
22011	08/22/2022

C3.01



1 DEMO PLAN
A1.12
1/8" = 1'-0"



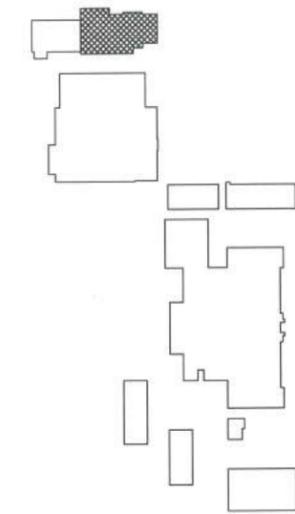
2 DEMOLITION ELEVATION
A1.12
1/8" = 1'-0"

DEMOLITION NOTES

- SCHOOL WILL REMAIN OCCUPIED BY OWNER DURING CONSTRUCTION. CONTRACTOR MUST COORDINATE AND SCHEDULE WORK WITH OWNER'S AUTHORIZED REPRESENTATIVE.
- PLANS SHOWN HAVE BEEN GENERATED FROM PREVIOUS RENOVATIONS PLANS AND FROM FIELD SURVEY OF EXISTING CONDITIONS. CONTRACTOR SHALL VERIFY CONDITIONS AND NOTIFY ARCHITECT AND OWNER'S AUTHORIZED REPRESENTATIVE OF DISCREPANCIES PRIOR TO BIDDING.
- REMOVAL OF HAZARDOUS MATERIALS IS NOT IN THIS CONTRACT. NOTIFY OWNER IMMEDIATELY IF HAZARDOUS MATERIALS ARE SUSPECTED.

DEMOLITION LEGEND

- ◇ REMOVE EXISTING SITE CONDITIONS AS INDICATED, SEE GEOTECHNICAL REPORT.
- ◇ REMOVE EXISTING FENCING AND FOOTINGS AS INDICATED, ---X---
- ◇ REMOVE EXISTING CONCRETE MOW STRIP.
- ◇ REMOVE EXISTING SIDEWALK, CURB TO REMAIN.
- ◇ REMOVE EXISTING FIRE HYDRANT AND FOC AND RELOCATE, SEE CIVIL.
- ◇ REMOVE EXISTING TANK AND SALVAGE TO OWNER.
- ◇ REMOVE PORTION OF EXISTING EXTERIOR WALL.
- ◇ REMOVE EXISTING ALUMINUM STOREFRONT, FRAMING, AND GLAZING, METAL SIDING, JAMB FLASHING, AND HEAD FLASHING TO REMAIN.
- ◇ REMOVE EXISTING GATE AND HARDWARE, SALVAGE TO OWNER.
- ◇ REMOVE EXISTING VENT PIPE AND REROUTE THROUGH ROOF.
- ◇ REMOVE EXISTING CONDUIT THIS WALL, CAP AND TERMINATE IN BOX AT INTERIOR SIDE OF BUS BARN BUILDING.
- ◇ REMOVE EXISTING SIGN AND SALVAGE TO OWNER.
- ◇ REMOVE AC PAVING, SEE CIVIL.



KEY PLAN

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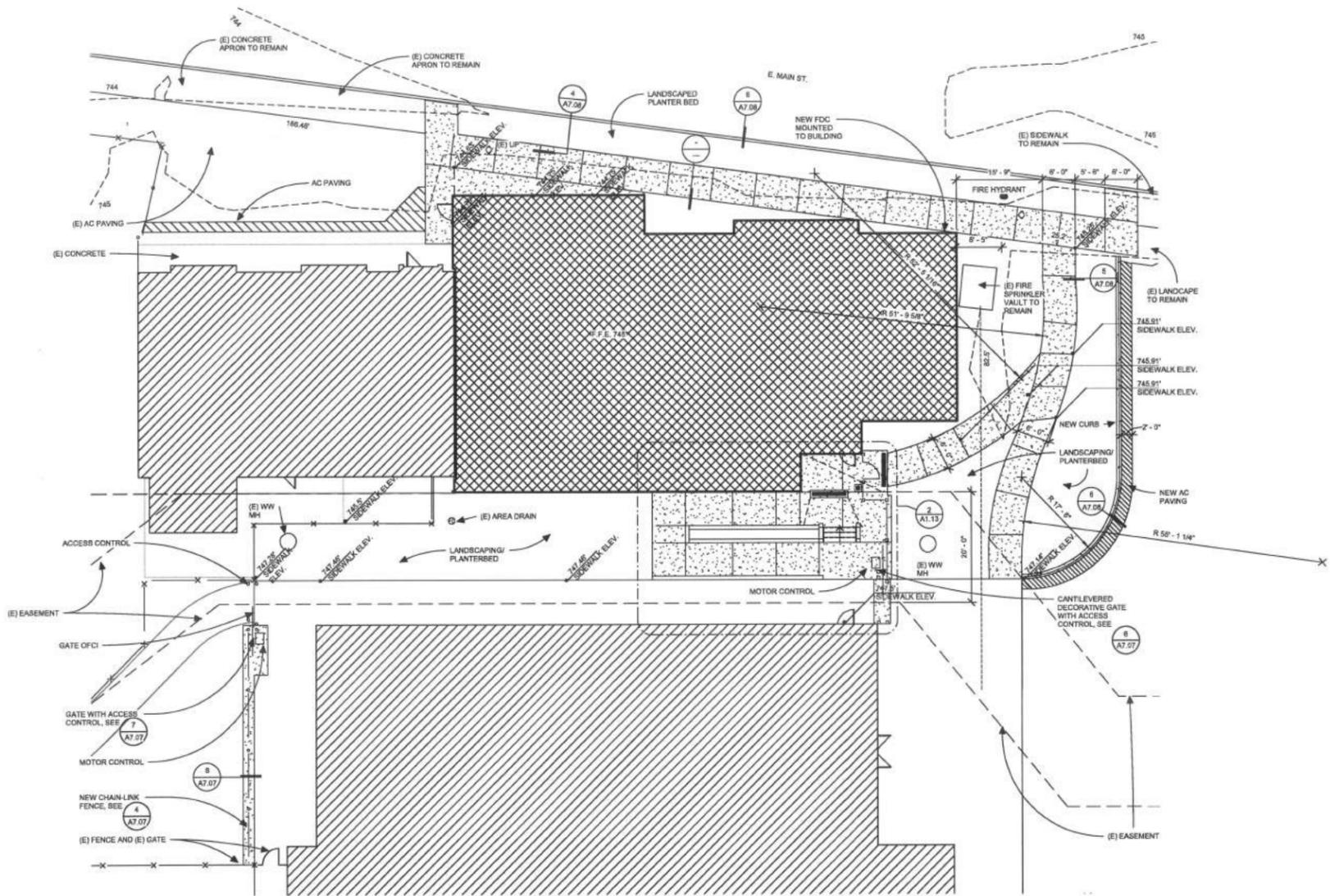
LOWELL WEIGHT ROOM AND CLASSROOM BUILDINGS
LOWELL SCHOOL DISTRICT
SCHEMATIC DESIGN
65 PIONEER ST, LOWELL, OR 97452

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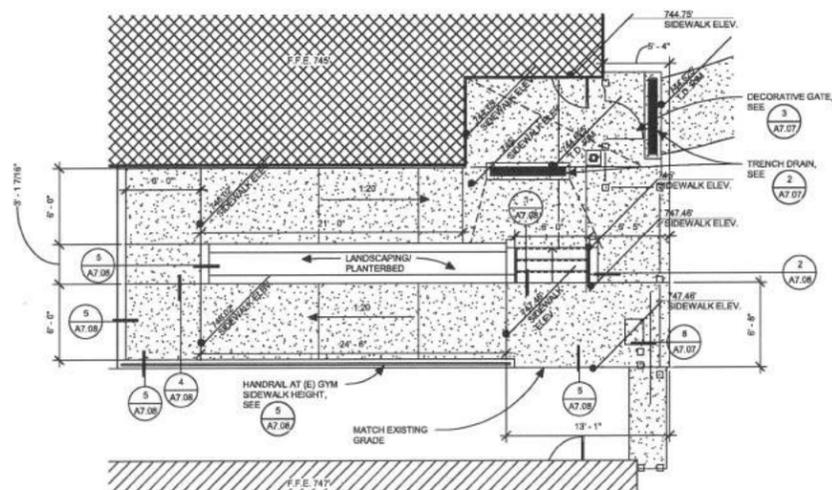
REVISIONS		
NO	DESCRIPTION	DATE

DEMO PLAN

PROJECT #	DATE
22011	09/07/2022



1 ENLARGED SITE PLAN
1" = 10'-0"



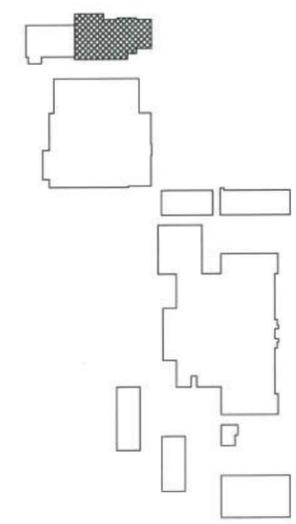
2 ENLARGED SOUTH STAIR AND RAMP PLAN
3/16" = 1'-0"

GENERAL NOTES

1. SURVEY INFORMATION IS BASED ON SURVEY PROVIDED BY K&D ENGINEERING, INC. DATED AUGUST 4, 2017. REFERENCE EXISTING CONDITIONS PLAN FOR SCOPE OF SITE DEMOLITION. CONTRACTOR SHALL VISIT THE SITE TO VERIFY ALL EXISTING CONDITIONS PRIOR TO BIDDING.
2. DIMENSIONS SHOWN ARE TO THE OUTSIDE FACE OF SLAB EDGE, ASPHALT SIDE OF CURBS AND WALKS U.N.O.
3. SEE CIVIL, LANDSCAPE, FIRE PROTECTION, AND ELECTRICAL DRAWINGS FOR ADDITIONAL WORK NOT SHOWN ON THIS DRAWING.
4. FOR SIDEWALK DETAILS AND LANDSCAPING DETAILS, SEE (A7.08), (A7.09), (A7.04), (A7.05), (A7.06), (A7.07), (A7.08), (A7.09).
5. FOR EXTERIOR COLUMN DETAILS AT CLASSROOM ENTRANCE PORCH, SEE (A7.54).

SITE PLAN LEGEND

- PROPERTY LINE
- SITE CONTOUR LINES
- EXISTING EASEMENT
- EXISTING FIRE LINE
- EXISTING BUILDING
- PROPOSED PHASE 1 CONSTRUCTION
- CONCRETE WALK
- AC PAVING
- FIRE HYDRANT APPROXIMATE LOCATION OF FIRE HYDRANT
- (E) FDC APPROXIMATE LOCATION OF (E) FIRE DEPARTMENT CONNECTION
- (E) WW MH APPROXIMATE LOCATION OF (E) WASTE MANHOLE
- (E) UP APPROXIMATE LOCATION OF (E) UTILITY POLE
- EXISTING FENCE
- NEW CHAIN LINK FENCE, SEE (A7.07)
- NEW DECORATIVE FENCE, SEE (A7.07)
- SLOPE ELEVATION CALLOUT
- C.J. COLD JOINT, SEE (A7.08)



KEY PLAN

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NOT FOR CONSTRUCTION

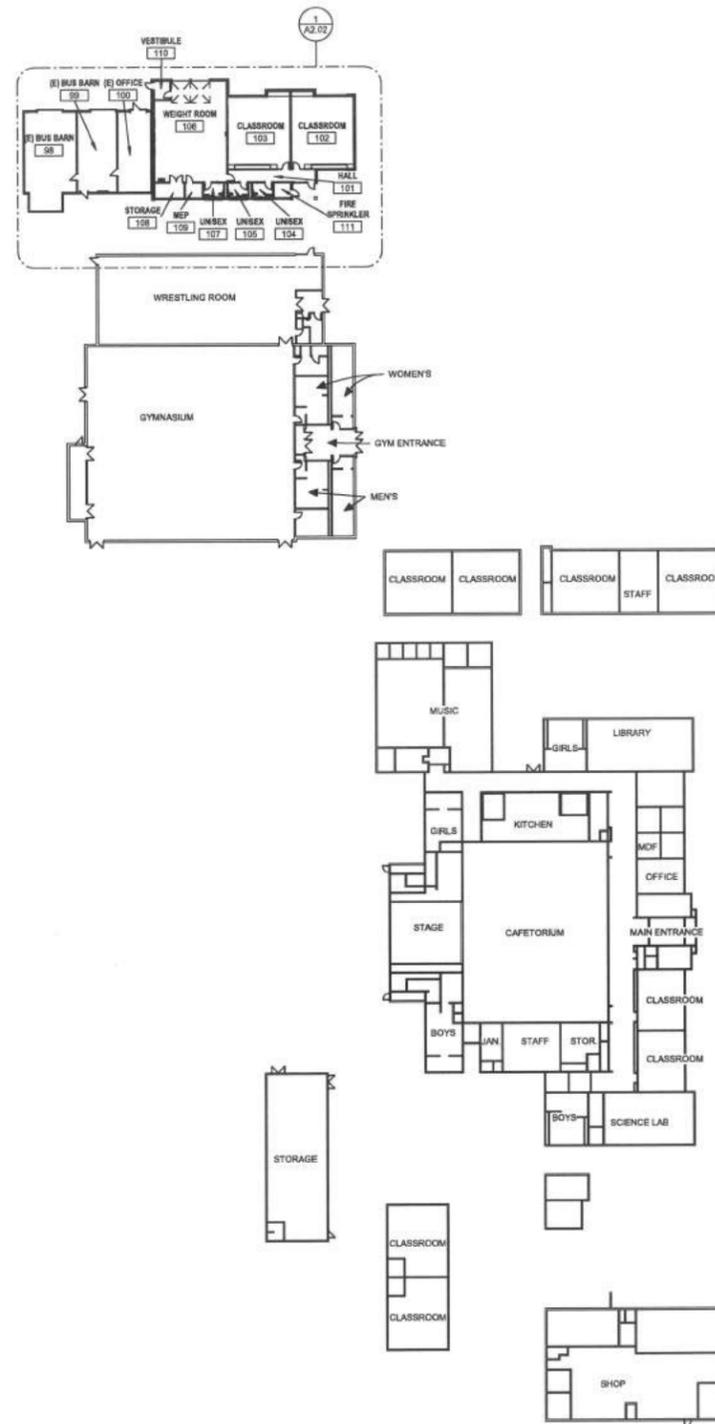
CONSULTANTS

LOWELL WEIGHT ROOM AND CLASSROOM BUILDINGS
LOWELL SCHOOL DISTRICT
SCHEMATIC DESIGN
65 PIONEER ST., LOWELL, OR 97452

NO	DESCRIPTION	DATE

ENLARGED SITE PLAN

PROJECT #	DATE
22011	09/07/2022



1 OVERALL FLOOR PLAN
A2.01 1" = 30'-0"



GENERAL NOTES

1. ALL GRIDLINES ARE TO CENTERLINE OF COLUMN, FACE OF STUD, OR FACE OF SLAB, U.N.O.
2. ALL WALL DIMENSIONS ARE TO FACE OF STUD OR FACE OF SLAB, U.N.O.
3. COORDINATE ALL UNDERSLAB UTILITIES WITH PLUMBING, MECHANICAL, ELECTRICAL, AND TECHNOLOGY DRAWINGS.
4. DOORS AND OPENINGS INDICATED NEAR WALL INTERSECTIONS SHALL BE LOCATED SO THAT THE EDGE OF THE FINISH OPENING IS 4" FROM THE FACE OF THE NEARBY WALL.
5. DETAILS SHOWN ARE TYPICAL. WHERE NO DETAIL IS SHOWN, CONSTRUCTION SHALL BE CONSISTENT WITH DETAILS OF A SIMILAR NATURE SHOWN ELSEWHERE IN THE DOCUMENTS.

GLAS
ARCHITECTS, LLC

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CONSULTANTS

LOWELL WEIGHT ROOM AND CLASSROOM BUILDINGS
LOWELL SCHOOL DISTRICT
SCHEMATIC DESIGN
65 PIONEER ST., LOWELL, OR 97452

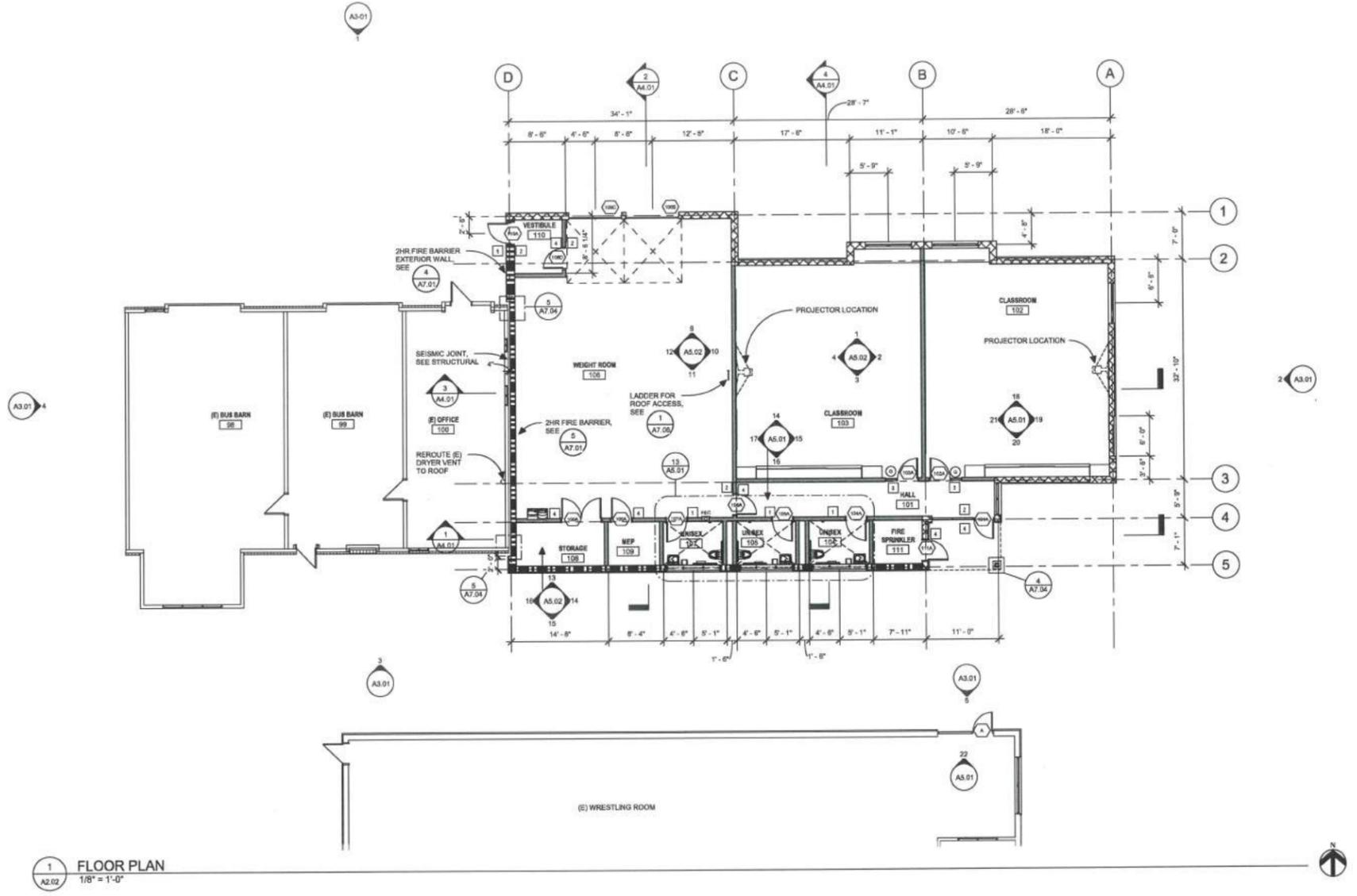
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REVISIONS		
NO	DESCRIPTION	DATE

OVERALL FLOOR PLAN

PROJECT #	DATE
22011	09/07/2022

A2.01



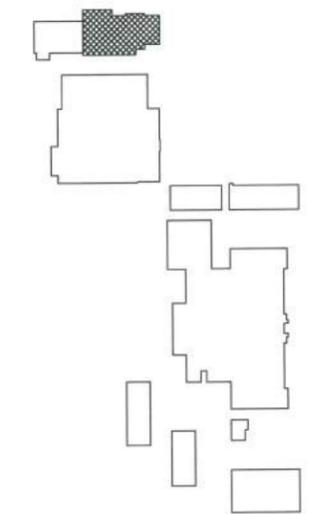
1 FLOOR PLAN
1/8" = 1'-0"

GENERAL NOTES

1. ALL GRIDLINES ARE TO CENTERLINE OF COLUMN, FACE OF STUD, OR FACE OF SLAB, U.N.O.
2. ALL WALL DIMENSIONS ARE TO FACE OF STUD OR FACE OF SLAB, U.N.O.
3. COORDINATE ALL UNDERSLAB UTILITIES WITH PLUMBING, MECHANICAL, ELECTRICAL, AND TECHNOLOGY DRAWINGS.
4. DOORS AND OPENINGS INDICATED NEAR WALL INTERSECTIONS SHALL BE LOCATED SO THAT THE EDGE OF THE FINISH OPENING IS 0" FROM THE FACE THE NEARBY WALL.
5. DETAILS SHOWN ARE TYPICAL. WHERE NO DETAIL IS SHOWN, CONSTRUCTION SHALL BE CONSISTENT WITH DETAILS OF A SIMILAR NATURE SHOWN ELSEWHERE IN THE DOCUMENTS.

FLOOR PLAN LEGEND

- EXISTING WALL TO REMAIN
- CMU VENEER AND WOOD FRAMED WALL, SEE EXTERIOR WALL 2
- INTERIOR WOOD FRAME WALL, SEE DETAIL
- 1-HOUR FIRE RESISTIVE RATED WALL, SEE WALL TYPE
- 2-HOUR RATED FIRE BARRIER, SEE WALL TYPE
- EXISTING DOOR TO REMAIN
- NEW DOOR WITH DOOR TAG, SEE DOOR SCHEDULE
- FE / FEC WALL-MOUNTED FIRE EXTINGUISHER / FIRE EXTINGUISHER CABINET
- RE-LOCATE TAG, SEE SCHEDULE
- SIGN TAG, SEE SCHEDULE



KEY PLAN

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LOWELL WEIGHT ROOM AND CLASSROOM BUILDINGS
LOWELL SCHOOL DISTRICT
SCHEMATIC DESIGN
65 PIONEER ST, LOWELL, OR 97452

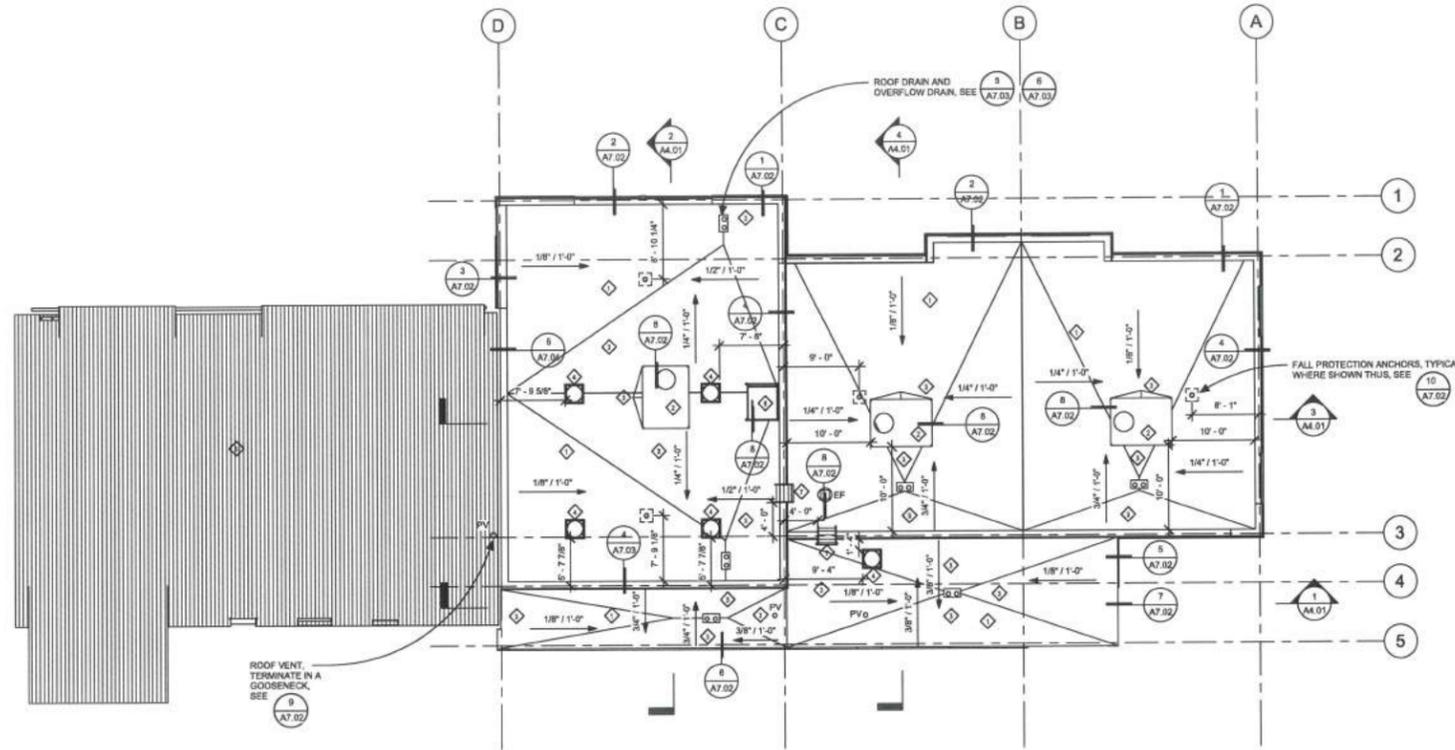
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REVISIONS		
NO	DESCRIPTION	DATE

FLOOR PLAN

PROJECT #	DATE
22011	09/07/2022

A2.02



1 ROOF PLAN
A2.10 1/8" = 1'-0"



GENERAL NOTES

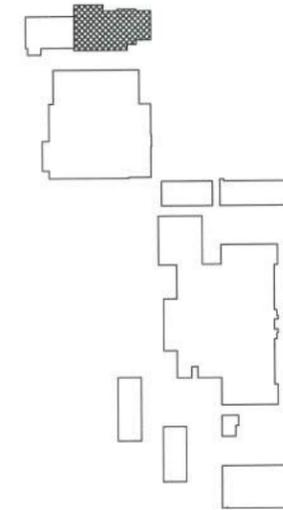
1. ALL GRIDLINES ARE TO CENTERLINE OF COLUMN, FACE OF STUD, OR FACE OF CMU, U.N.O.
2. ALL WALL DIMENSIONS ARE TO FACE OF STUD OR FACE OF CMU, U.N.O.
3. SLOPE ROOFS TO DRAIN. UPON INSPECTION OF ROOF DECK, ROOFER AND GENERAL CONTRACTOR SHALL NOTIFY ARCHITECT OF ANY CONDITION WHERE POSITIVE DRAINAGE IS NOT ANTICIPATED.
4. ROOF DETAILS SHOW MINIMUM REQUIREMENTS FOR ROOFING AND FLASHING SYSTEMS. FOLLOW ROOFING SYSTEM MANUFACTURER'S RECOMMENDATIONS SHOULD THEY EXCEED THESE MINIMUMS.
5. DURING ROOF KEEP ROOF AND SURROUNDING SURFACES CLEAN AND FREE OF EXCESS MATERIALS, FASTENERS, AND DEBRIS.
6. WHEN STOCKING ROOF WITH MATERIAL DISTRIBUTE MATERIAL TO AVOID OVERLOADING ANY PORTION OF ROOF STRUCTURE.
7. DETAILS SHOWN ARE TYPICAL. WHERE NO DETAIL IS SHOWN, CONSTRUCTION SHALL BE CONSISTENT WITH DETAILS OF A SIMILAR NATURE SHOWN ELSEWHERE IN THE DOCUMENTS.
8. FOR TYPICAL LOW SLOPE ROOF SYSTEM, SEE DETAIL 1 (A7.01)

ROOF PLAN LEGEND

- PV PLUMBING VENT, SEE PLUMBING 9 (A7.02)
- FALL PROTECTION ANCHORS, SEE 10 (A7.02)
- EF EXHAUST FAN, SEE MECHANICAL, SEE 8 (A7.02)
- ROOF DRAIN AND OVERFLOW DRAIN, SEE 3 (A7.03) 8 (A7.03)

ROOF PLAN NOTES LEGEND

- ◇ LOW SLOPE ROOF SYSTEM
- ◇ HVAC EQUIPMENT SHOWN, SEE MECH, LOCATE AS NECESSARY TO ALIGN SUPPLY DUCT WITH THE STRUCTURAL SPACING.
- ◇ LOW SLOPE ROOF SYSTEM OVER TAPERED INSULATION CRIBSET @ 1/4" PER FOOT
- ◇ SKYLIGHT AS SPECIFIED, SEE
- ◇ BUS BARN HANGER ROOF
- ◇ ROOF HATCH AND GUARDRAIL
- ◇ EXTERIOR ROOF ACCESS LADDER, SEE 2 (A7.01)



KEY PLAN

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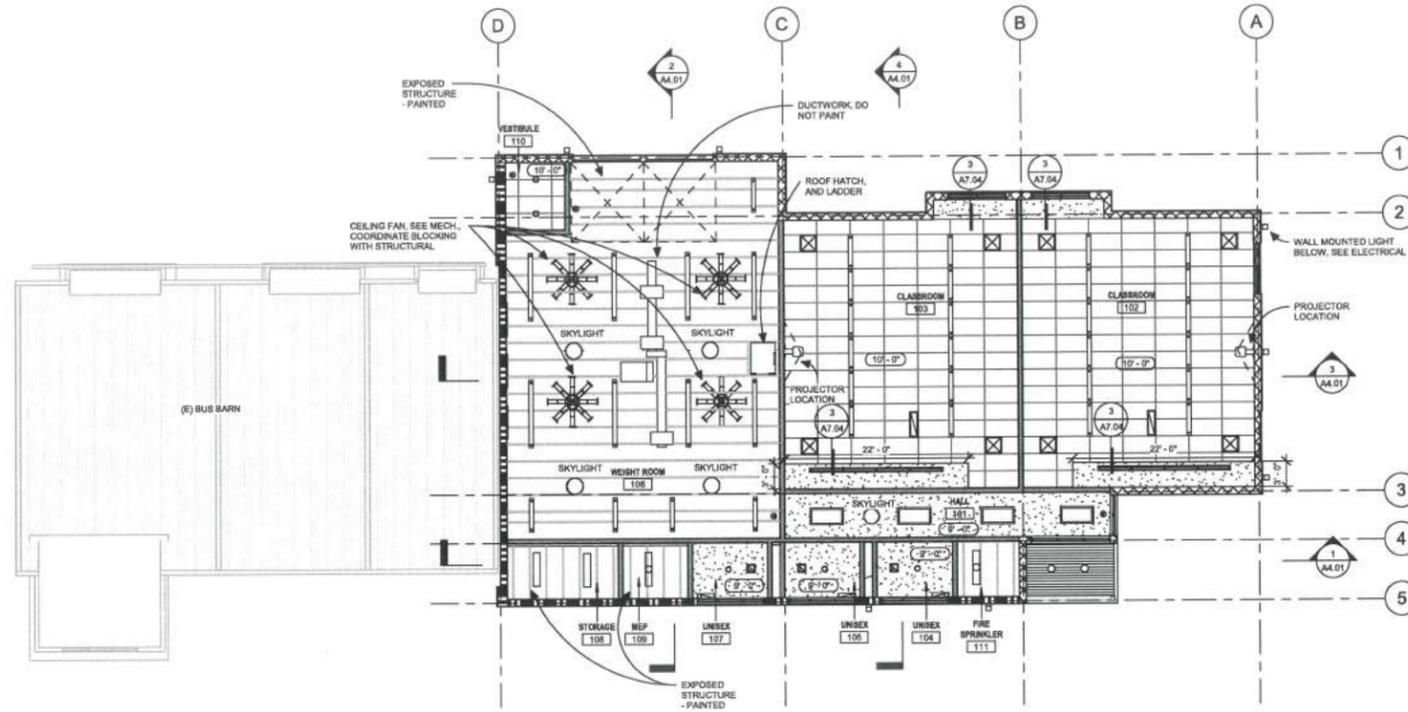
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LOWELL SCHOOL DISTRICT
SCHEMATIC DESIGN
65 PIONEER ST, LOWELL, OR 97452**

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NO	DESCRIPTION	DATE

ROOF PLAN

PROJECT #	DATE
22011	09/07/2022



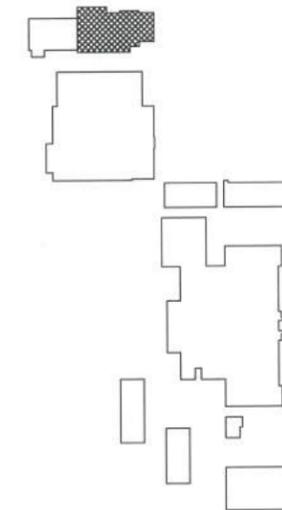
1 REFLECTED CEILING PLAN
A2.20
1/8" = 1'-0"

GENERAL NOTES

1. ALL GRIDLINES ARE TO CENTERLINE OF COLUMN, FACE OF STUD OR FACE OF CMU, U.N.O.
2. ALL WALL DIMENSIONS ARE TO FACE OF STUD OR FACE OF CMU, U.N.O.
3. LIGHT FIXTURES SHOWN FOR DESIGN CRITERIA AND COORDINATION ONLY, SEE ELEC.
4. DETAILS SHOWN ARE TYPICAL. WHERE NO DETAIL IS SHOWN, CONSTRUCTION SHALL BE CONSISTENT WITH DETAILS OF A SIMILAR NATURE SHOWN ELSEWHERE IN THE DOCUMENTS.

CEILING PLAN LEGEND

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KEY PLAN

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REVISIONS

NO	DESCRIPTION	DATE

REFLECTED CEILING PLAN

PROJECT #	DATE
22011	09/07/2022

A2.20

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SCHEMATIC DESIGN
65 PIONEER ST, LOWELL, OR 97452

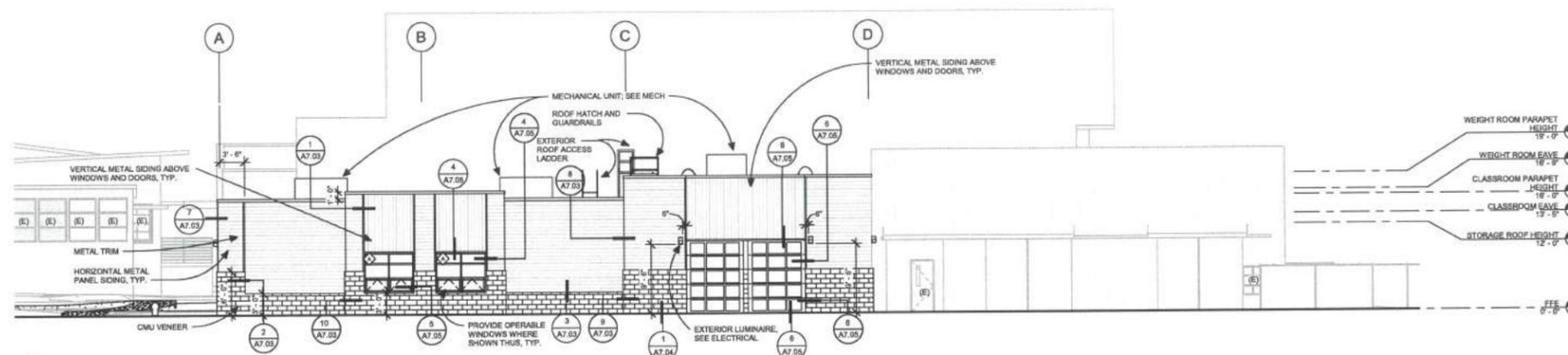
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REVISIONS		
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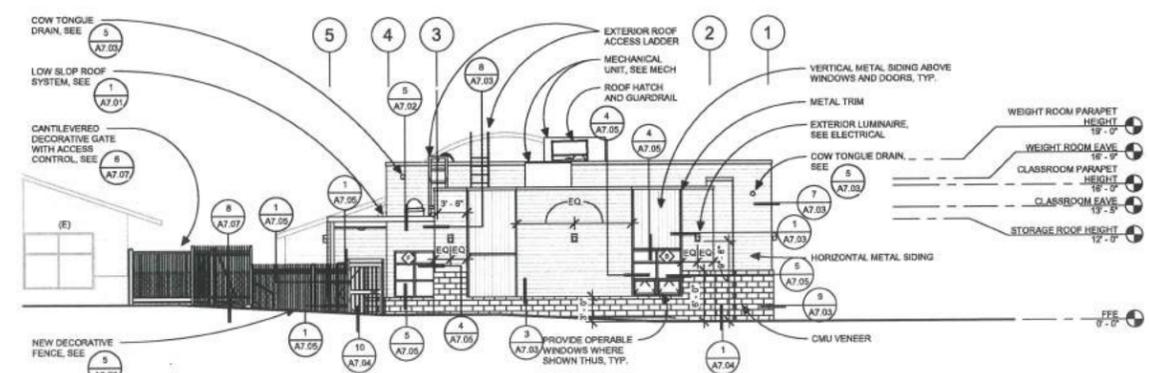
ELEVATIONS

PROJECT #	DATE
22011	09/07/2022

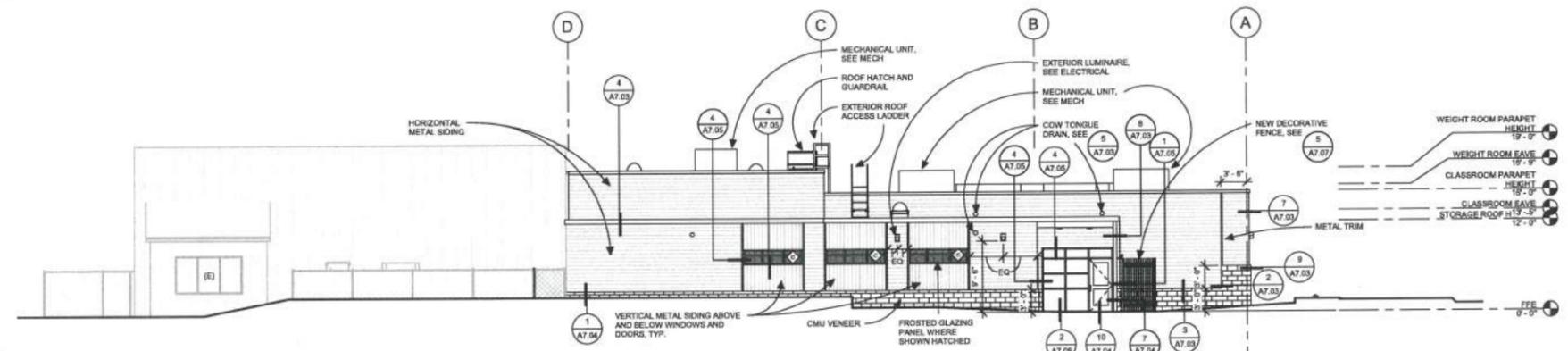
A3.01



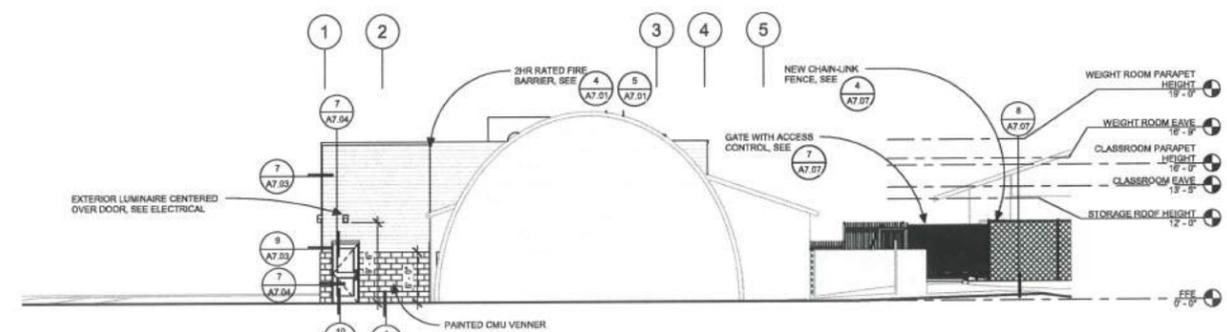
1 NORTH
1/8" = 1'-0"



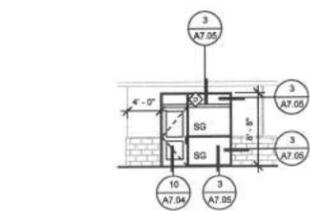
2 EAST
1/8" = 1'-0"



3 SOUTH
1/8" = 1'-0"



4 WEST
1/8" = 1'-0"



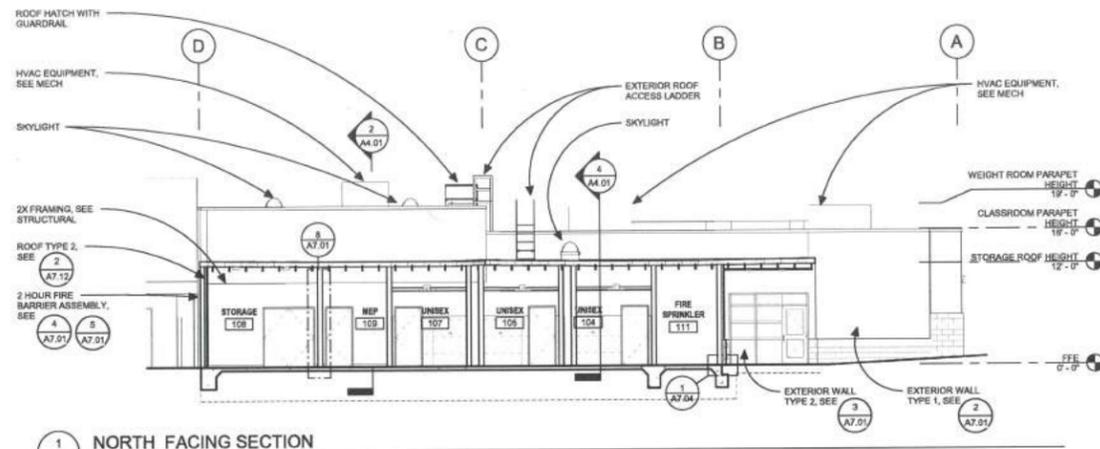
5 EXISTING GYM NORTH ELEVATION
1/8" = 1'-0"

GENERAL NOTES

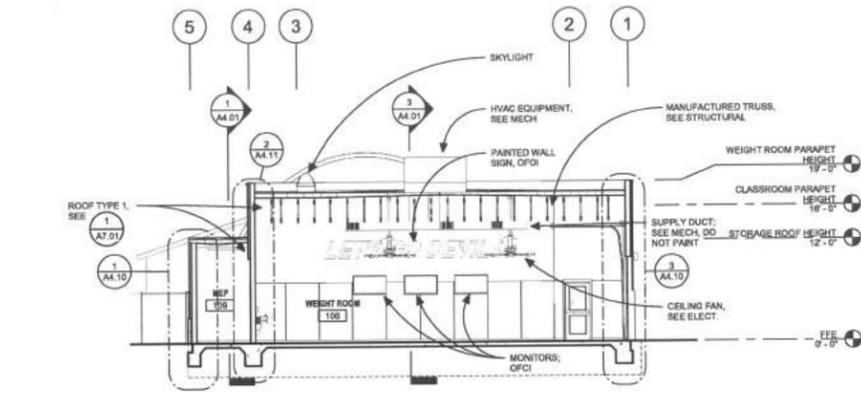
- ALL GRIDLINES ARE TO CENTERLINE OF COLUMN OR FACE OF FRAMING, U.N.O.
- DETAILS SHOWN ARE TYPICAL. WHERE NO DETAIL IS SHOWN, CONSTRUCTION SHALL BE CONSISTENT WITH DETAILS OF A SIMILAR NATURE SHOWN ELSEWHERE IN THE DOCUMENTS.
- EXTERIOR METAL PANEL ORIENTATION IS SHOWN; COORDINATE COLORS OF PANELS WITH ARCHITECT.

ELEVATION LEGEND

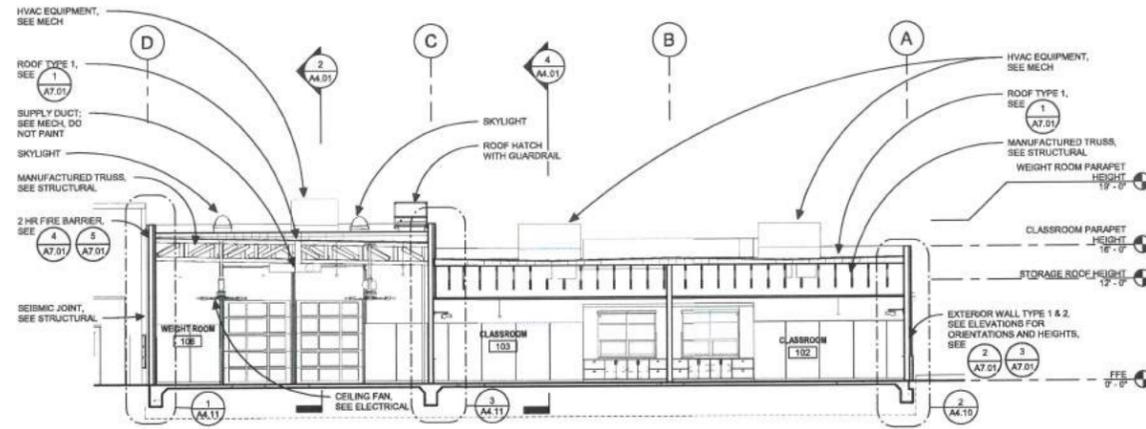
- ◊ WINDOW TAG, SEE SCHEDULE ON SHEET A6.01
- ▽ LOUVER TAG, SEE SCHEDULE ON SHEET A6.01
- SG SAFETY GLAZING



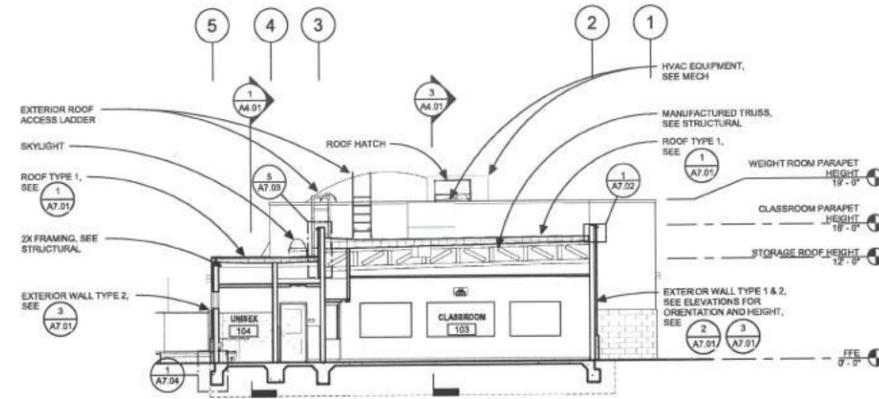
1 NORTH FACING SECTION
1/8" = 1'-0"



2 WEIGHT ROOM SECTION N/S
1/8" = 1'-0"



3 SOUTH FACING SECTION
1/8" = 1'-0"



4 CLASSROOM SECTION N/S
1/8" = 1'-0"

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LOWELL SCHOOL DISTRICT
SCHEMATIC DESIGN
65 PIONEER ST, LOWELL, OR 97452

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NO	DESCRIPTION	DATE

BUILDING SECTIONS

PROJECT #	DATE
22011	09/07/2022

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CLASSROOM BUILDINGS
LOWELL SCHOOL DISTRICT
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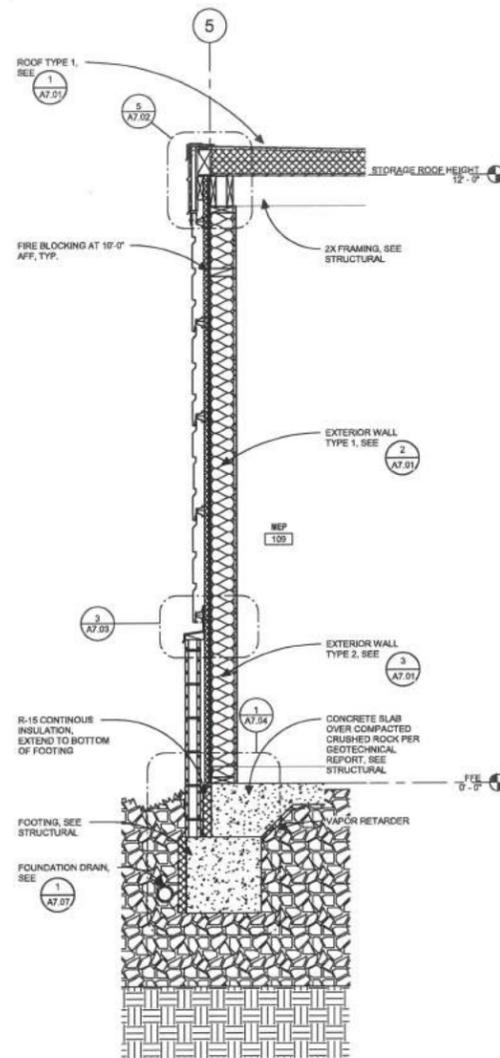
REVISIONS

NO	DESCRIPTION	DATE

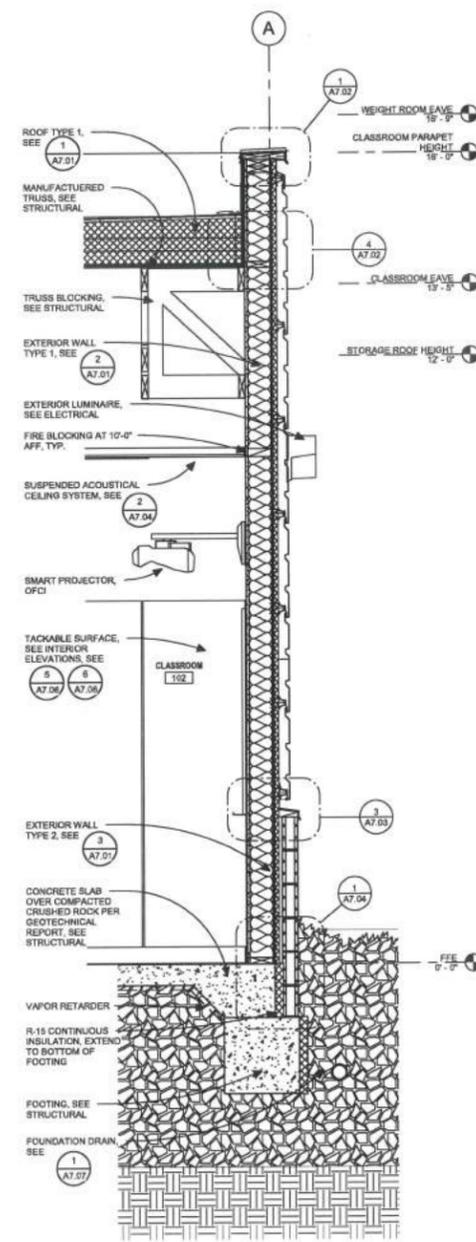
WALL SECTIONS

PROJECT #	DATE
22011	09/07/2022

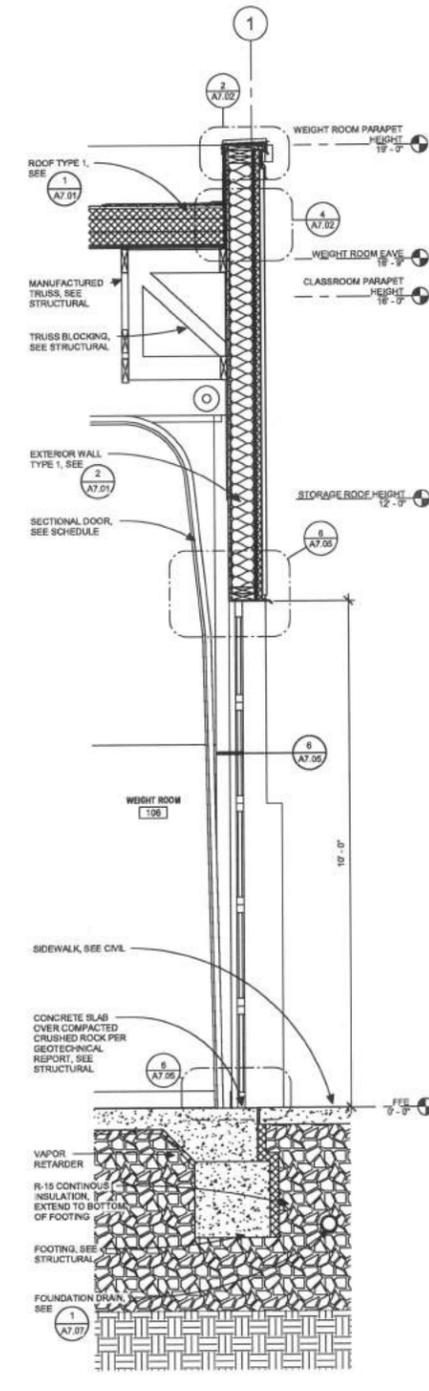
A4.10



1 TYPICAL CMU VENEER WALL SECTION
3/4" = 1'-0"



2 TYPICAL METAL PANEL WALL SECTION
3/4" = 1'-0"



3 WEIGHT ROOM GARAGE WALL
3/4" = 1'-0"

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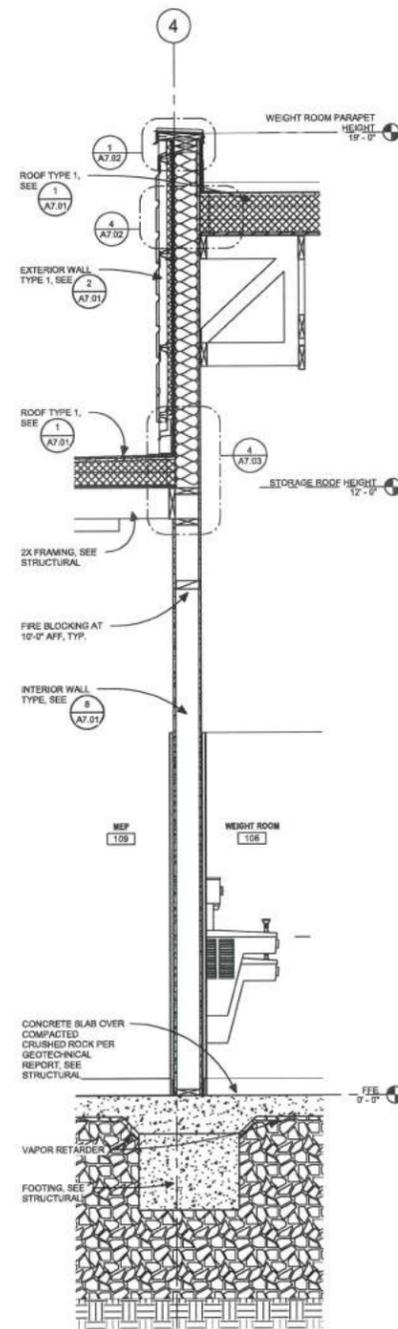
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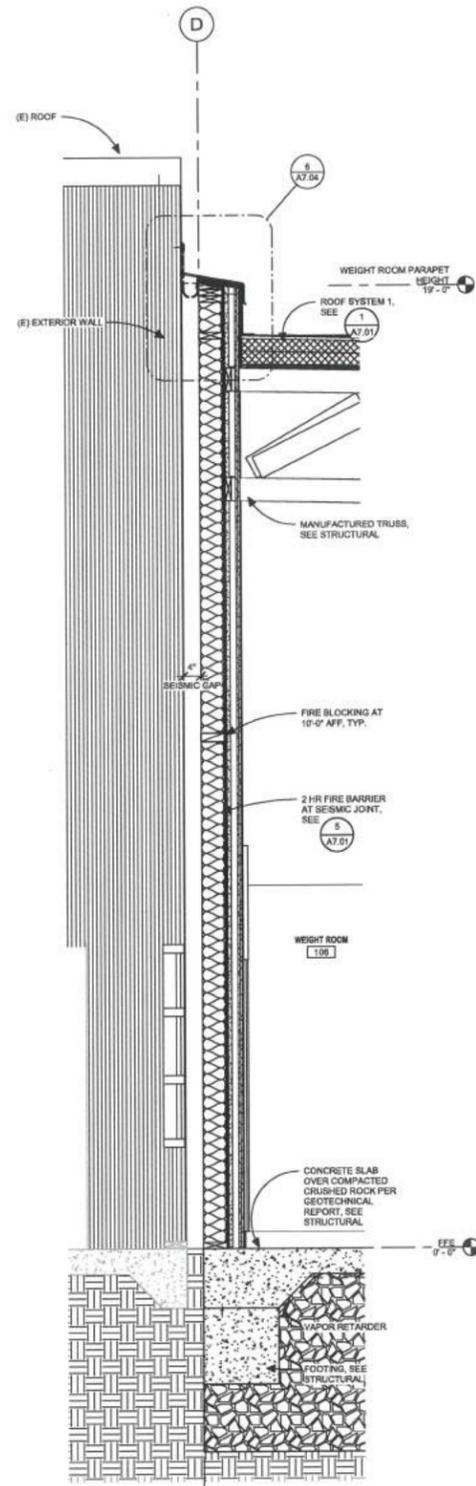
WALL SECTIONS

PROJECT # 22011 DATE 09/07/2022

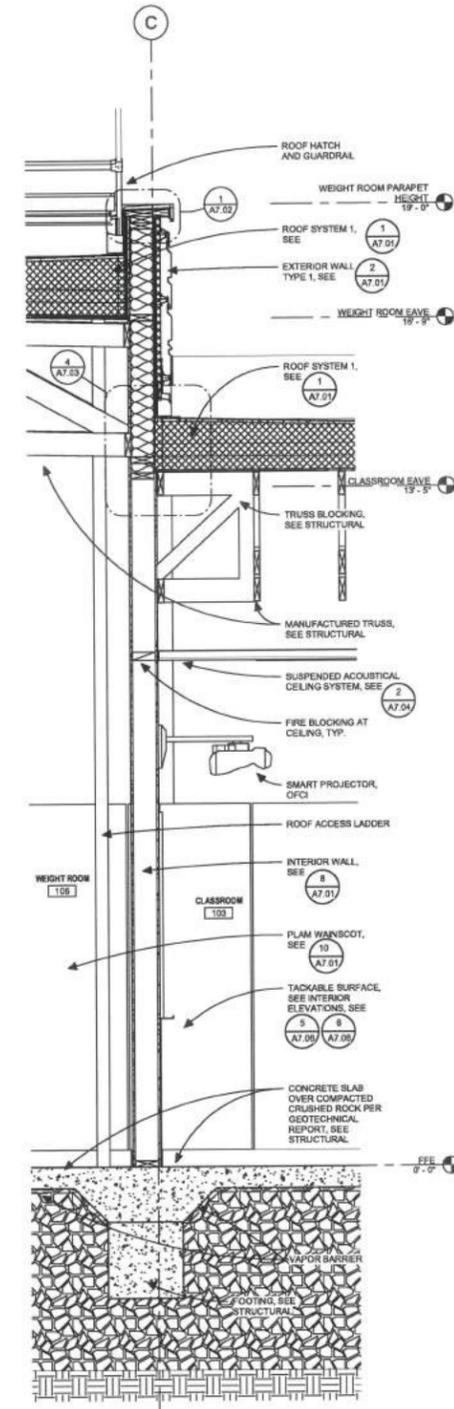
A4.11



2 WEIGHT ROOM STORAGE WALL SECTION
3/4" = 1'-0"



1 2 HR FIRE WALL SECTION
3/4" = 1'-0"



3 WEIGHT ROOM AND CLASSROOM WALL SECTION
3/4" = 1'-0"

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LOWELL SCHOOL DISTRICT
SCHEMATIC DESIGN
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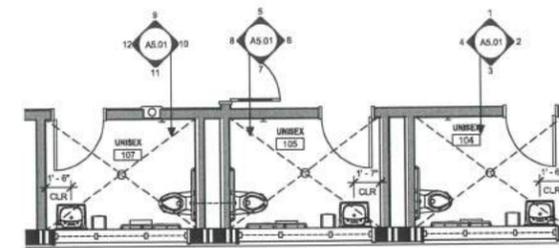
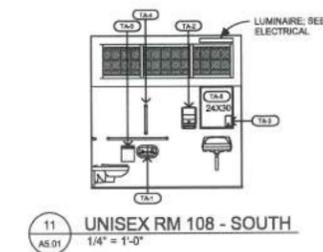
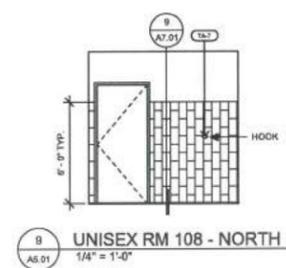
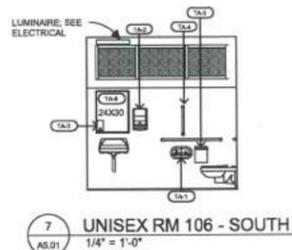
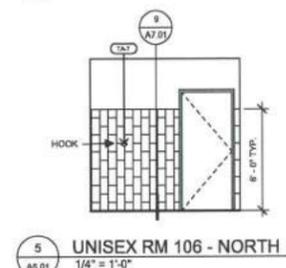
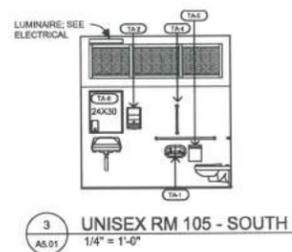
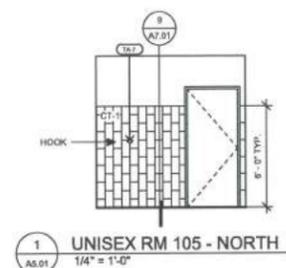
REVISIONS

NO	DESCRIPTION	DATE

ENLARGED PLAN AND INTERIOR ELEVATIONS

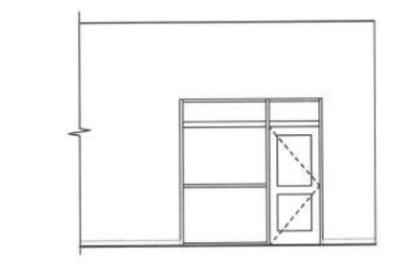
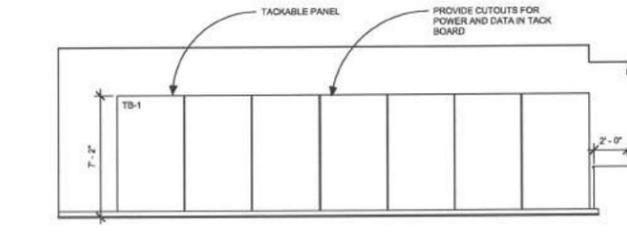
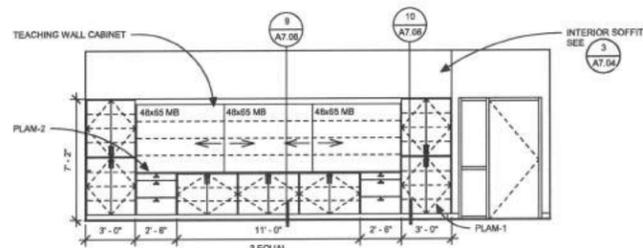
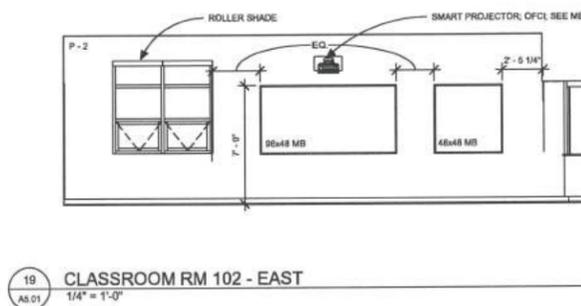
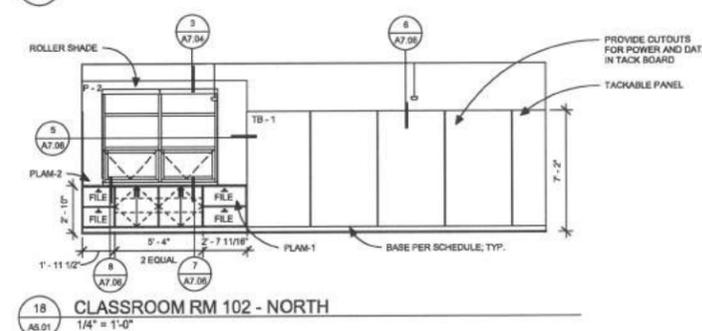
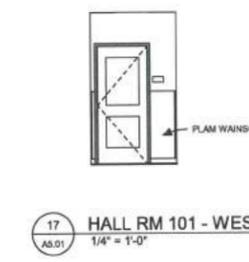
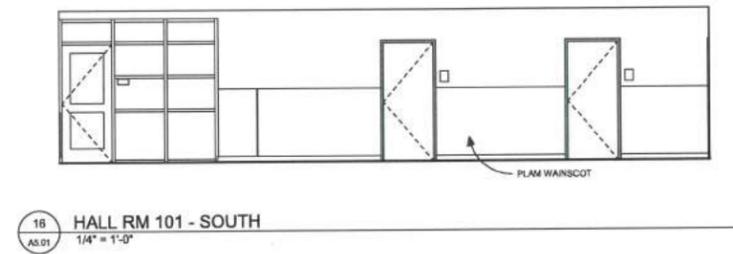
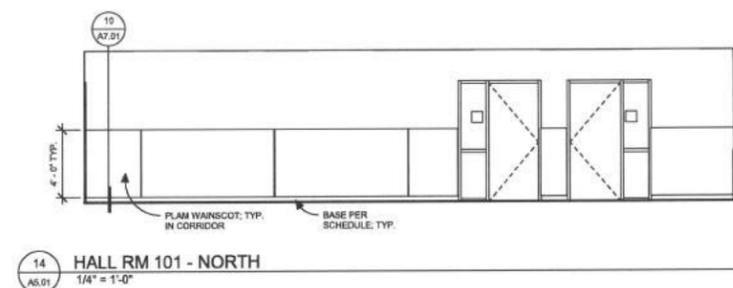
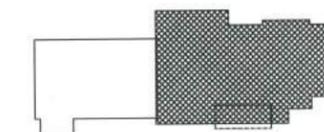
PROJECT # 22011 DATE 09/07/2022

A5.01



GENERAL NOTES

- FOR MOUNTING HEIGHTS, SEE 12, 13, 14
- FOR CLEAR DIMENSIONS, SEE 13, 14
- FOR CERAMIC TILE PATTERN, SEE 13, 14
- FOR TA SCHEDULE, SEE A8.01



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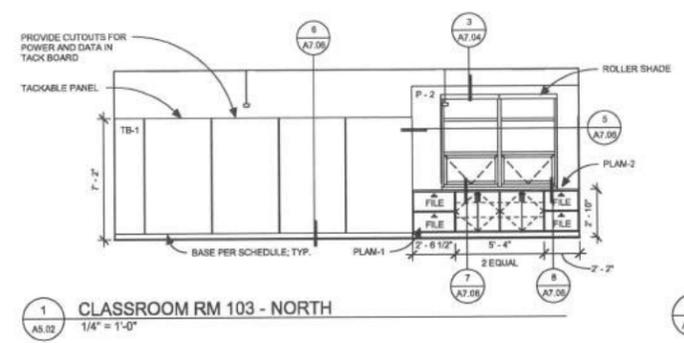
CONSULTANTS

LOWELL WEIGHT ROOM AND CLASSROOM BUILDINGS
LOWELL SCHOOL DISTRICT
SCHEMATIC DESIGN
65 PIONEER ST, LOWELL, OR 97452

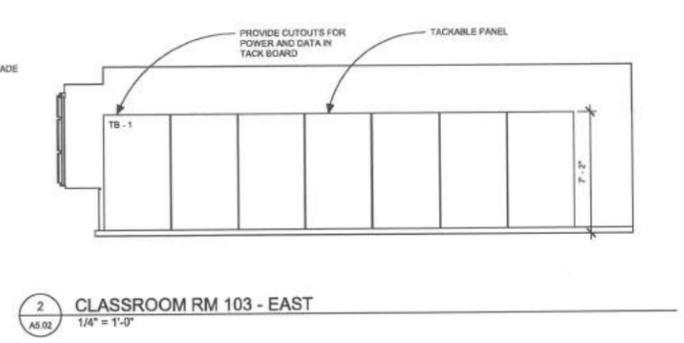
REVISIONS		
NO	DESCRIPTION	DATE

INTERIOR ELEVATIONS

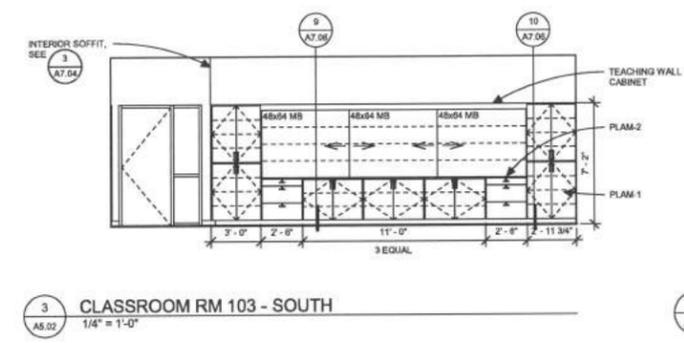
PROJECT #	DATE
22011	09/07/2022



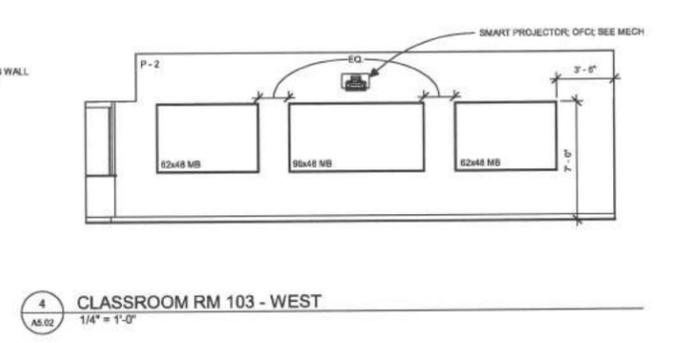
1 CLASSROOM RM 103 - NORTH
A5.02 1/4" = 1'-0"



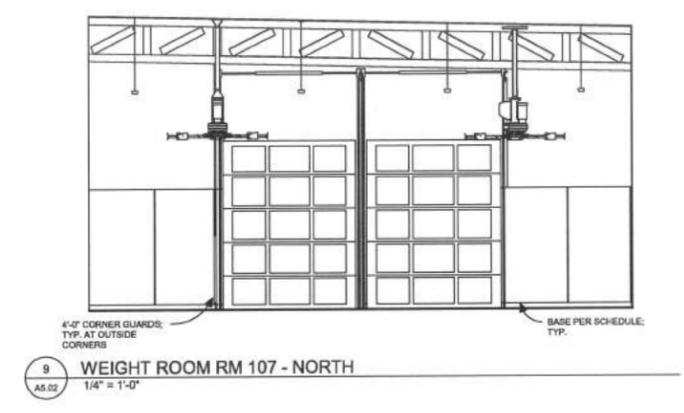
2 CLASSROOM RM 103 - EAST
A5.02 1/4" = 1'-0"



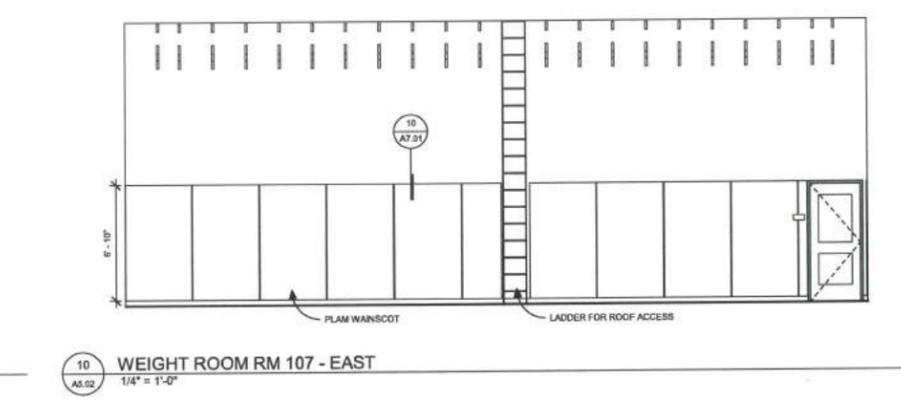
3 CLASSROOM RM 103 - SOUTH
A5.02 1/4" = 1'-0"



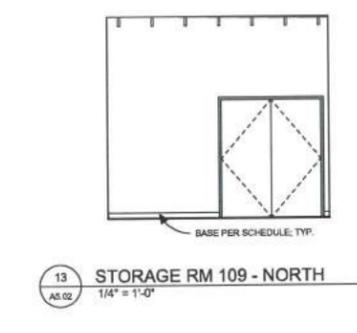
4 CLASSROOM RM 103 - WEST
A5.02 1/4" = 1'-0"



9 WEIGHT ROOM RM 107 - NORTH
A5.02 1/4" = 1'-0"



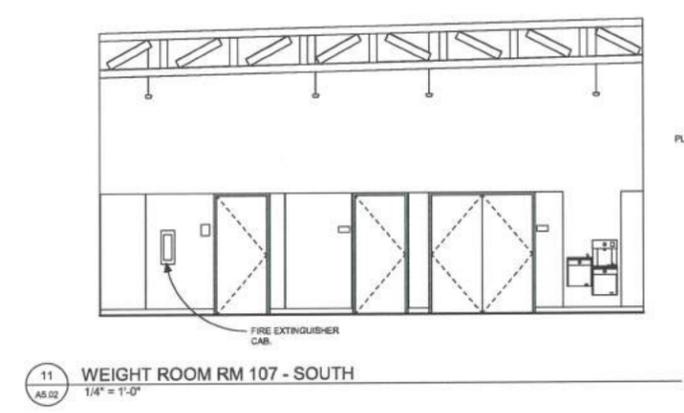
10 WEIGHT ROOM RM 107 - EAST
A5.02 1/4" = 1'-0"



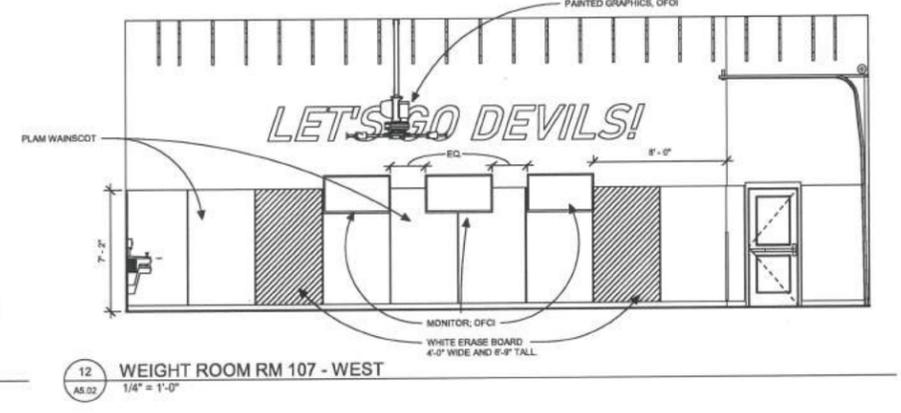
13 STORAGE RM 109 - NORTH
A5.02 1/4" = 1'-0"



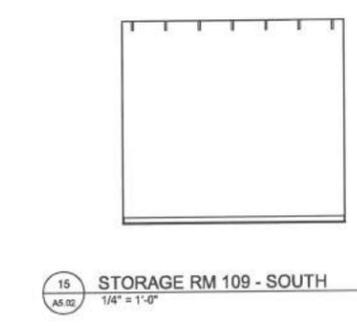
14 STORAGE RM 109 - EAST
A5.02 1/4" = 1'-0"



11 WEIGHT ROOM RM 107 - SOUTH
A5.02 1/4" = 1'-0"



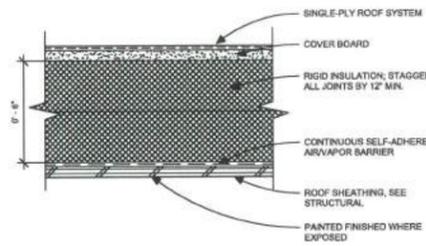
12 WEIGHT ROOM RM 107 - WEST
A5.02 1/4" = 1'-0"



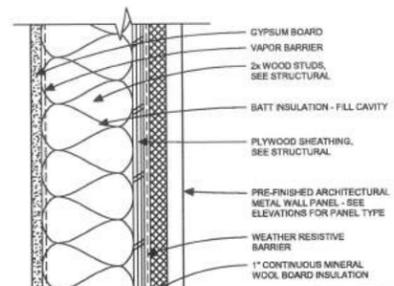
15 STORAGE RM 109 - SOUTH
A5.02 1/4" = 1'-0"



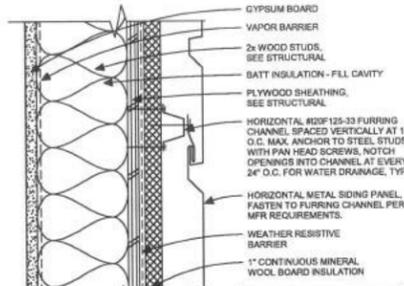
16 STORAGE RM 109 - WEST
A5.02 1/4" = 1'-0"



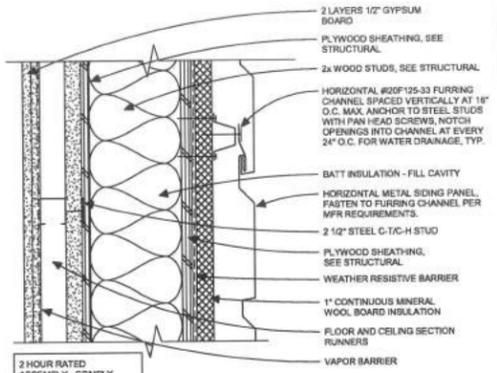
1 ROOF TYPE 1
3' = 1'-0"



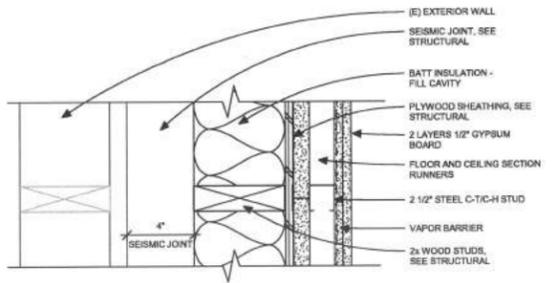
2 EXTERIOR WALL TYPE 1 - METAL PANEL
3' = 1'-0"



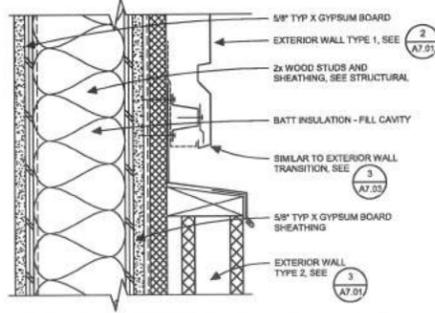
3 EXTERIOR WALL TYPE 2 - CMU
3' = 1'-0"



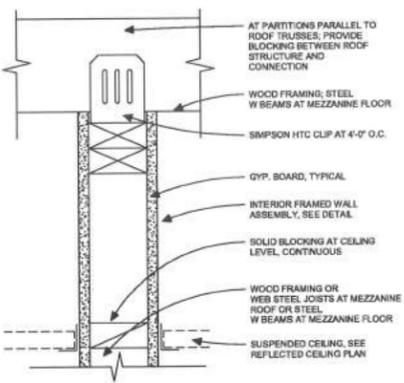
4 2 HOUR FIRE BARRIER - EXTERIOR FRAMED WALL
3' = 1'-0"



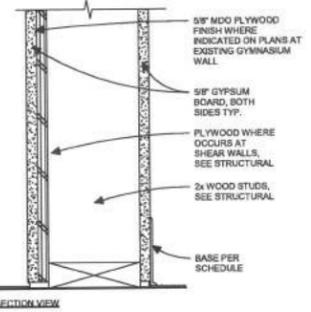
5 2 HOUR FIRE BARRIER SEISMIC JOINT
3' = 1'-0"



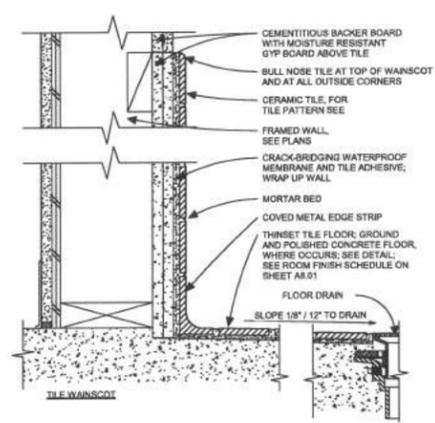
6 1 HOUR RATED EXTERIOR FRAMED WALL
3' = 1'-0"



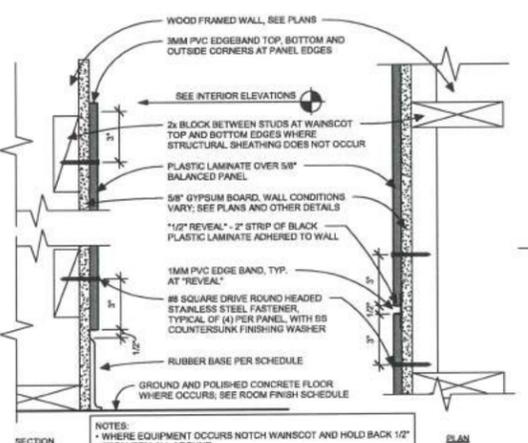
7 TYPICAL PARTITION HEAD CONDITION
3' = 1'-0"



8 TYPICAL INTERIOR WOOD FRAMED WALL
3' = 1'-0"



9 TILE WAINSCOT AND FLOOR ASSEMBLY AT FRAMED WALL
3' = 1'-0"



10 PLAM WAINSCOT AND FLOOR ASSEMBLY AT FRAMED WALL
3' = 1'-0"

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LOWELL WEIGHT ROOM AND CLASSROOM BUILDINGS
LOWELL SCHOOL DISTRICT
SCHEMATIC DESIGN
65 PIONEER ST, LOWELL, OR 97452

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NO	DESCRIPTION	DATE

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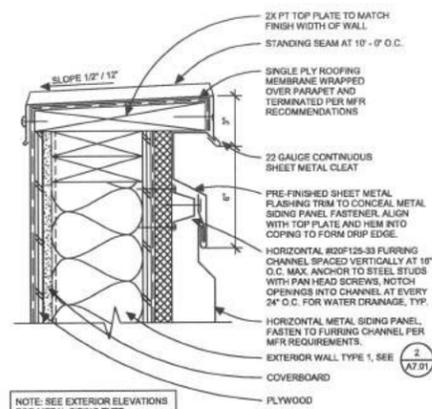
CONSULTANTS

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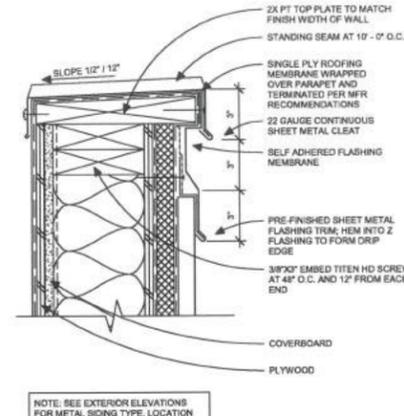
REVISIONS		
NO	DESCRIPTION	DATE

DETAILS

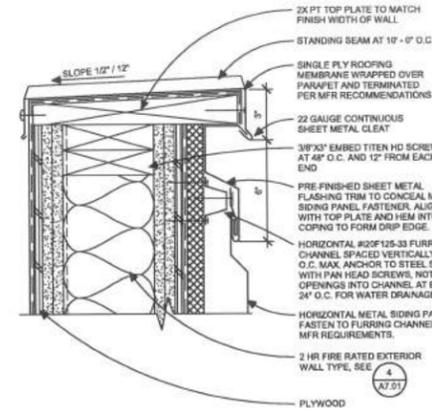
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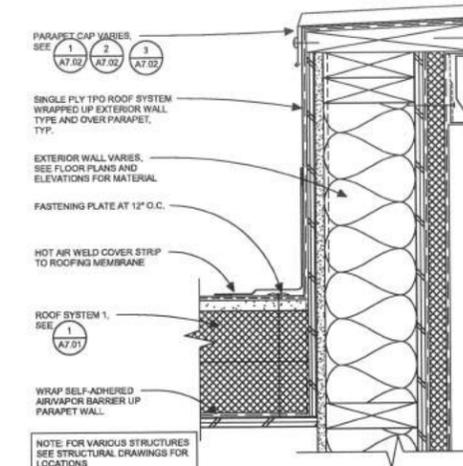
1 PARAPET CAP - EXTERIOR WALL TYPE 1 HORIZ.
A7.02 3" = 1'-0"



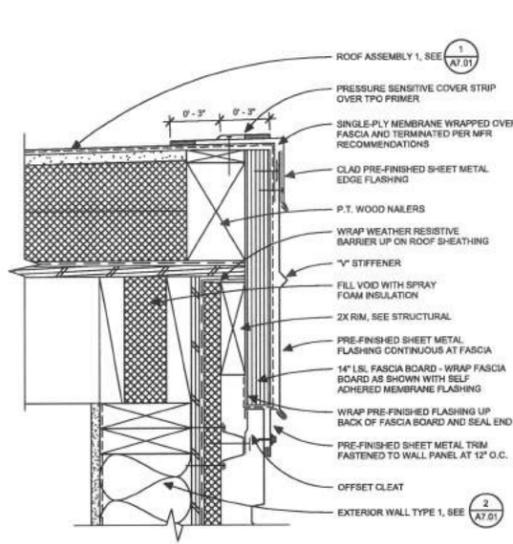
2 PARAPET CAP - EXTERIOR WALL TYPE 1 VERT.
A7.02 3" = 1'-0"



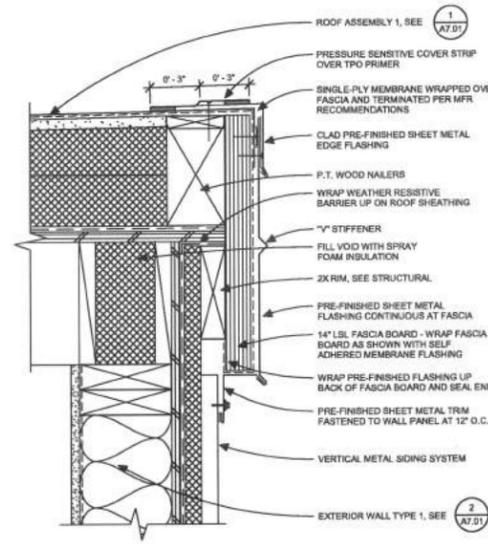
3 PARAPET - 2HR FIRE BARRIER
A7.02 3" = 1'-0"



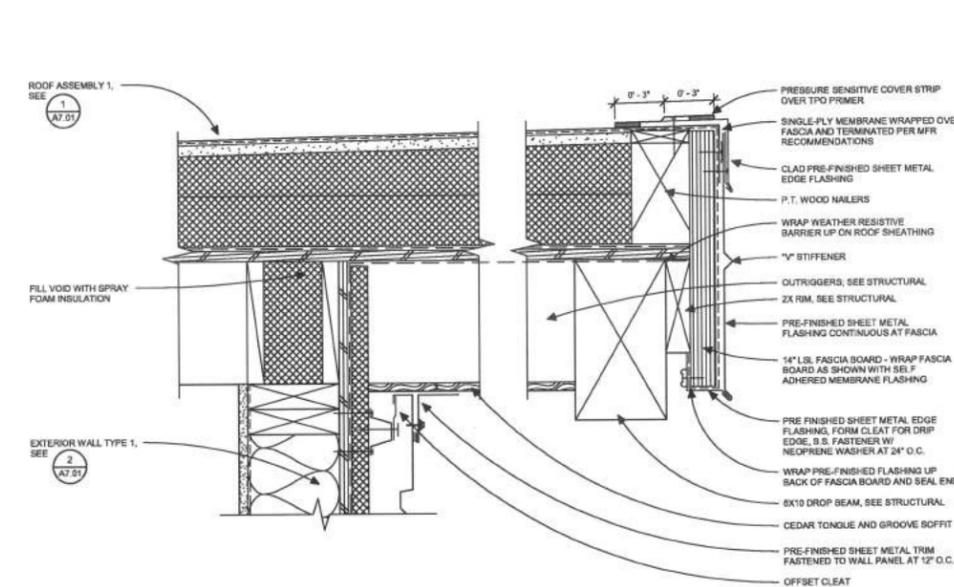
4 SIDEWALL ROOF ASSEMBLY
A7.02 3" = 1'-0"



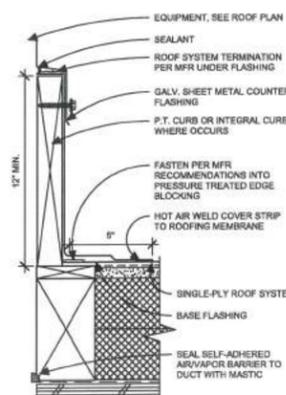
5 TOP OF WALL TYPE 1 - HORIZONTAL
A7.02 3" = 1'-0"



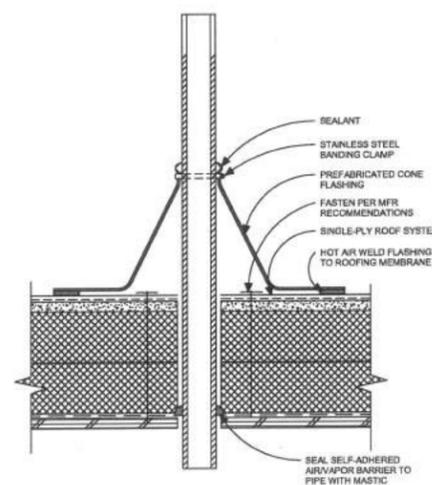
6 TOP OF WALL TYPE 1 - VERTICAL
A7.02 3" = 1'-0"



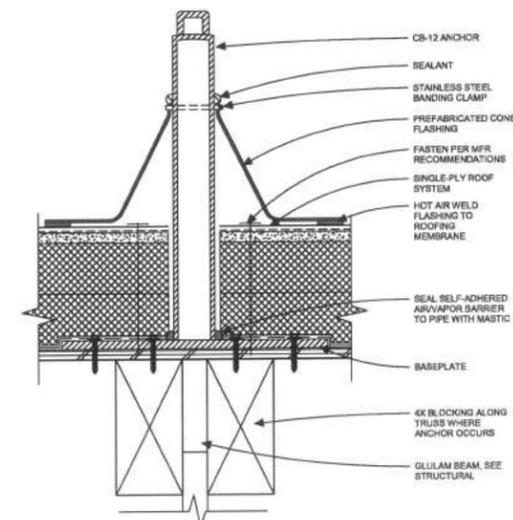
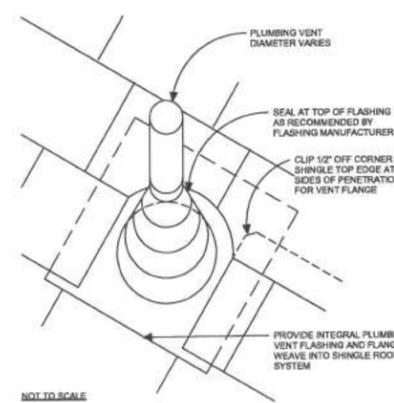
7 TOP OF WALL TYPE 1 - UNDER PORCH
A7.02 3" = 1'-0"



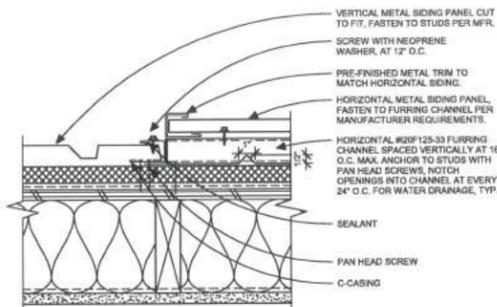
8 MECHANICAL CURB AT ROOF TYPE 1
A7.02 3" = 1'-0"



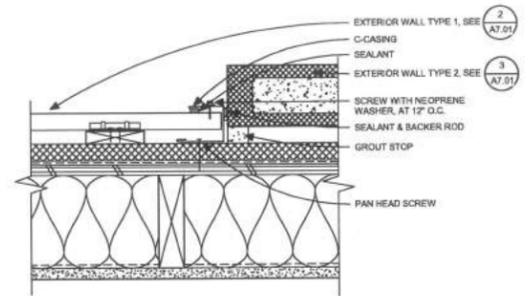
9 PIPE PENETRATION
A7.02 3" = 1'-0"



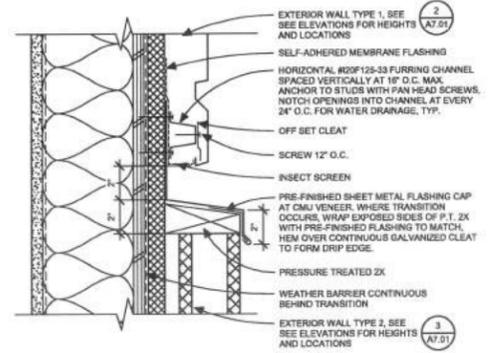
10 FALL PROTECTION ROOF ANCHOR
A7.02 3" = 1'-0"



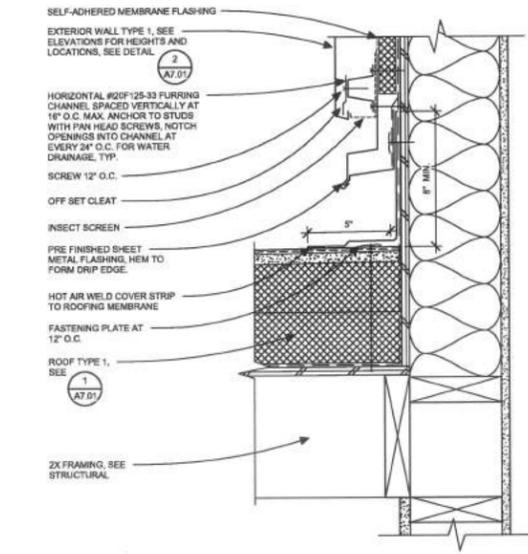
1 METAL SIDING TRANSITION - METAL PANELS
A7.03 3" = 1'-0"



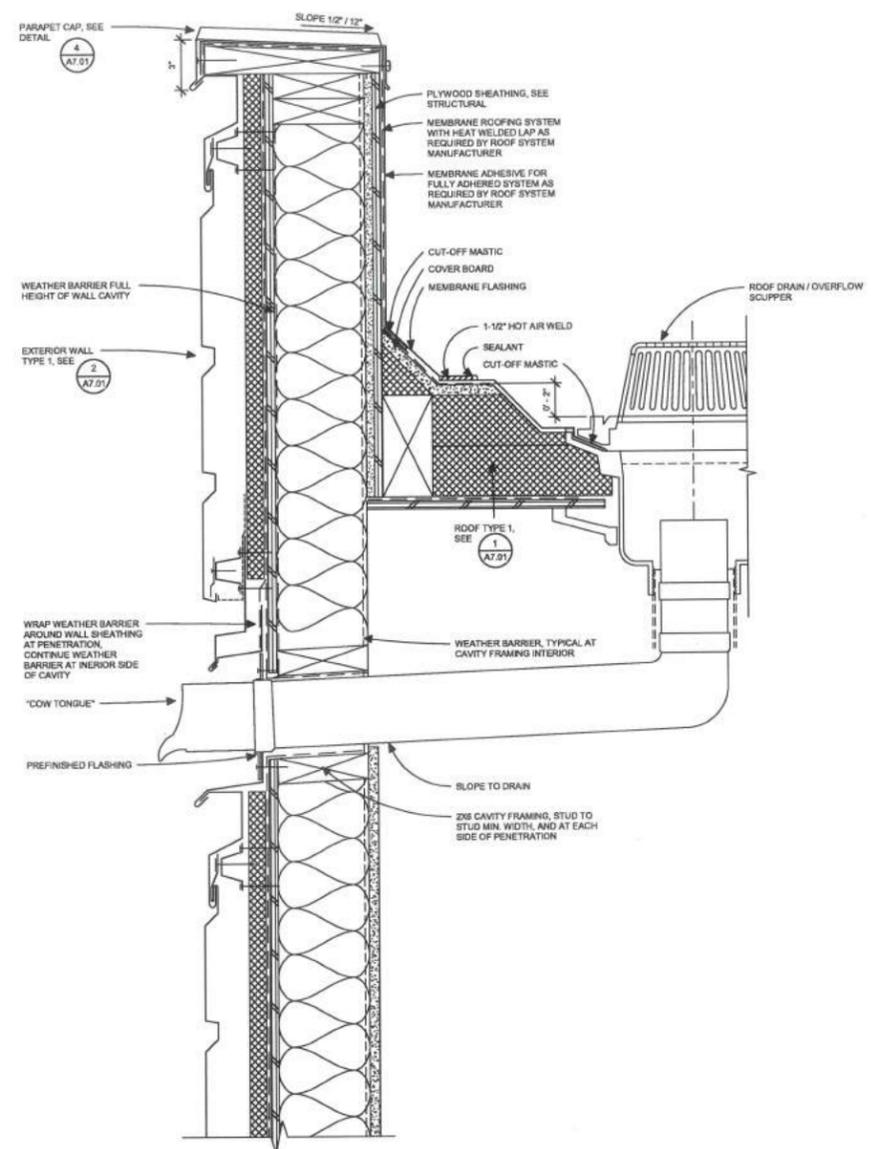
2 METAL SIDING TRANSITION - CMU TO METAL
A7.03 3" = 1'-0"



3 METAL SIDING TRANSITION - CMU
A7.03 3" = 1'-0"

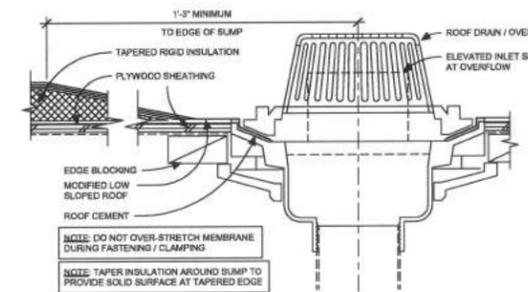


4 BASE OF WALL AT ROOF CONNECTION
A7.03 3" = 1'-0"

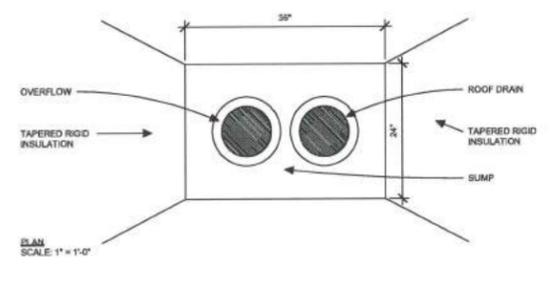


NOTES:
1. PROVIDE STAINLESS STEEL SCUPPER SLEEVE.
2. CONSTRUCT SLEEVE AS A SEAMLESS UNIT.
3. PROVIDE WATER CUT-OFF MASTIC AROUND SCUPPER OPENING.

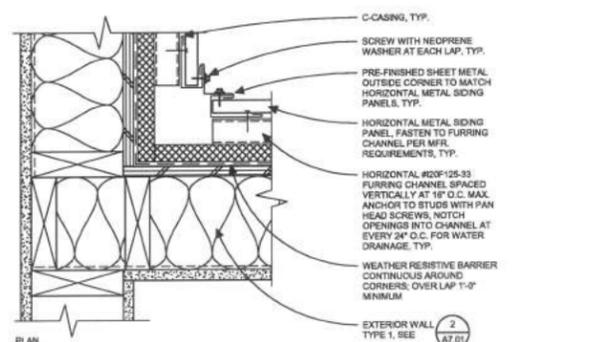
5 "COW TONGUE" PENETRATION AT EXTERIOR WALL TYPE 1
A7.03 3" = 1'-0"



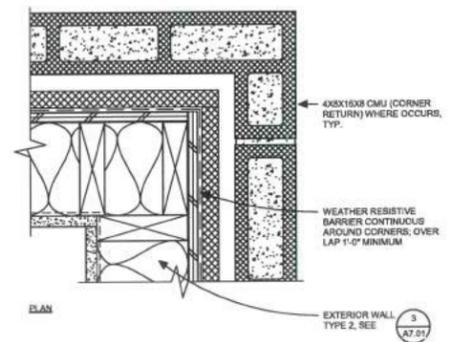
6 ROOF DRAIN
A7.03 3" = 1'-0"



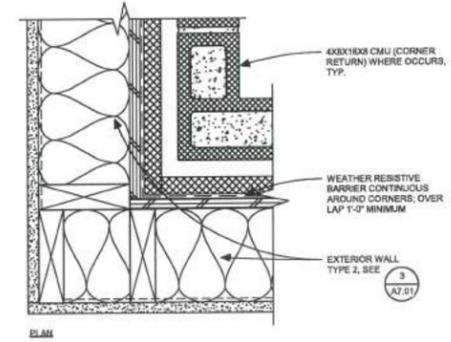
7 OUTSIDE CORNER - METAL PANEL
A7.03 3" = 1'-0"



8 INSIDE CORNER - METAL PANEL
A7.03 3" = 1'-0"



9 OUTSIDE CORNER - CMU VENEER
A7.03 3" = 1'-0"



10 INSIDE CORNER - CMU VENEER
A7.03 3" = 1'-0"

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SCHEMATIC DESIGN
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DETAILS

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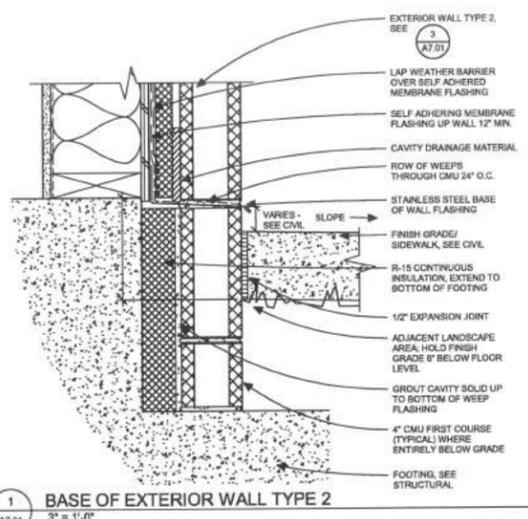
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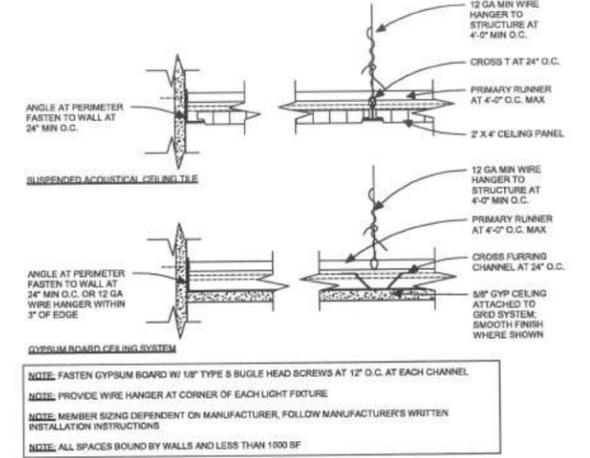
DETAILS

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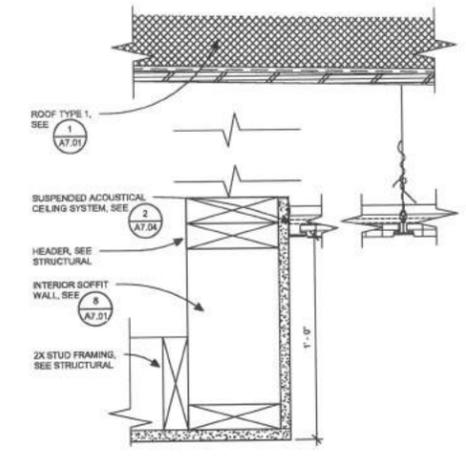
A7.04



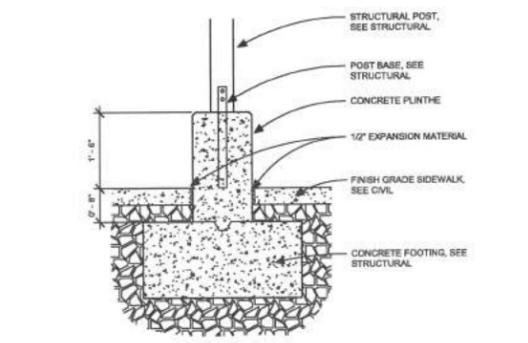
1 BASE OF EXTERIOR WALL TYPE 2
3" = 1'-0"



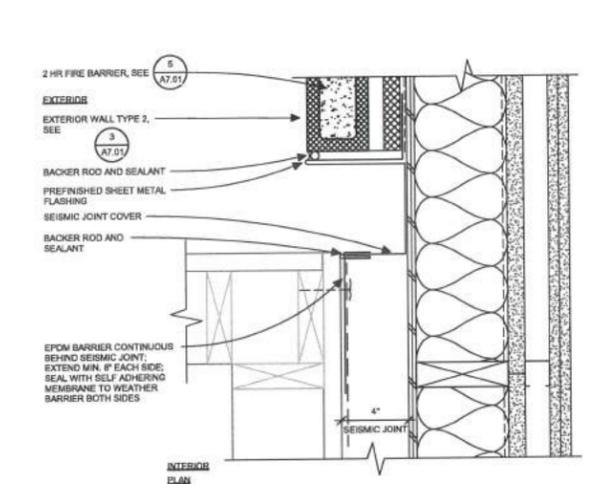
2 SUSPENDED CEILING DETAILS
3" = 1'-0"



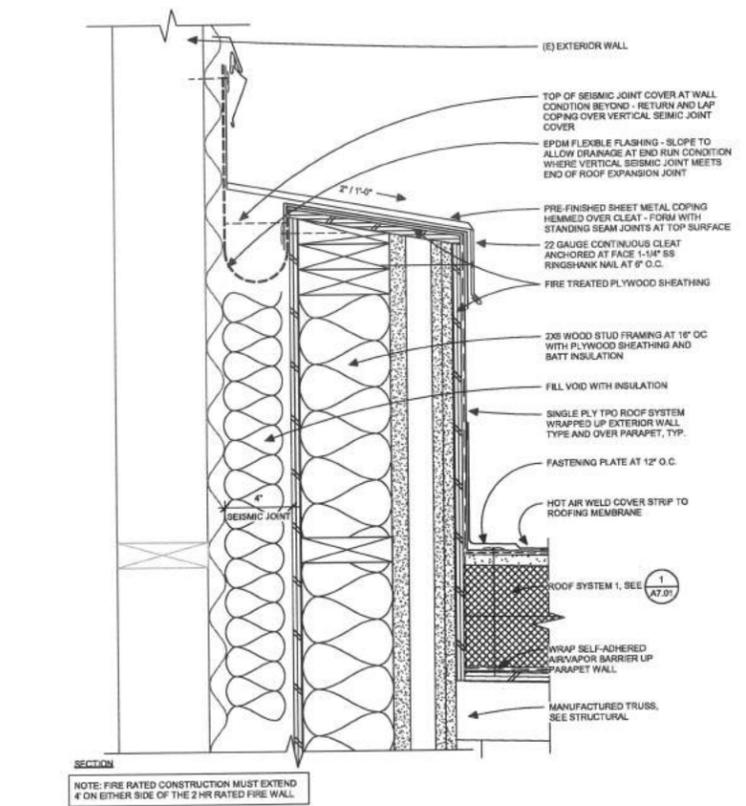
3 INTERIOR SOFFIT
3" = 1'-0"



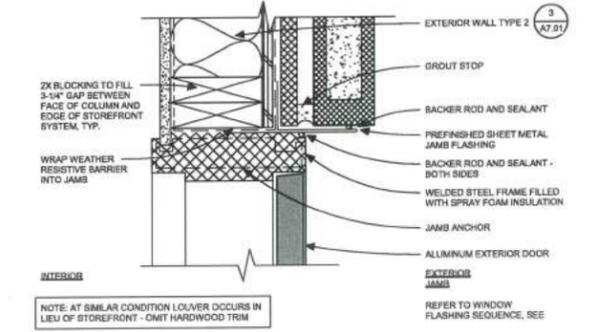
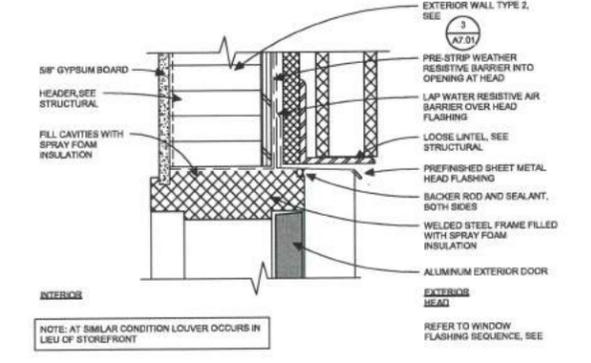
4 EXTERIOR COLUMN AT PORCH
3/4" = 1'-0"



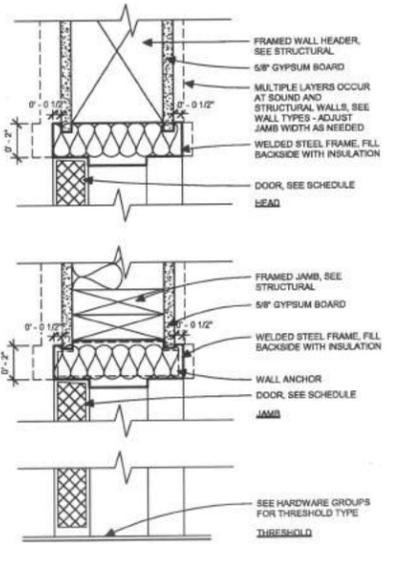
5 INSIDE SEISMIC JOINT
3" = 1'-0"



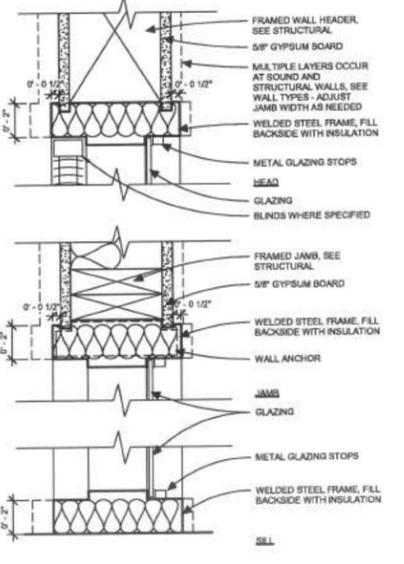
6 SEISMIC JOINT CAP AT FIRE BARRIER
3" = 1'-0"



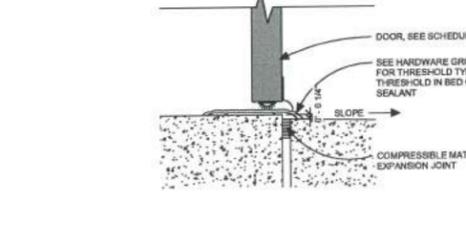
7 ALUM DOOR AT EXTERIOR WALL TYPE 2
3" = 1'-0"



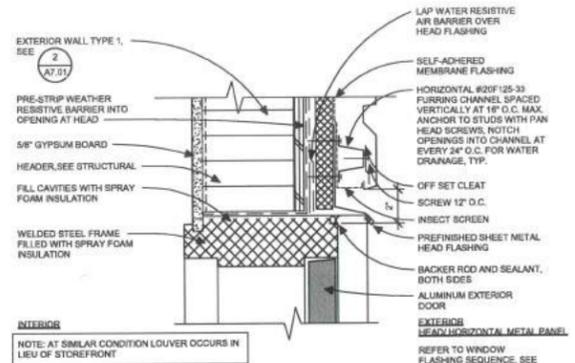
8 INT. DOOR AT STUD WALL
3" = 1'-0"



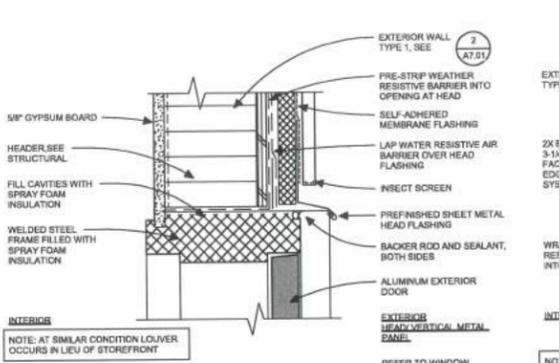
9 HOLLOW METAL RELITE
3" = 1'-0"



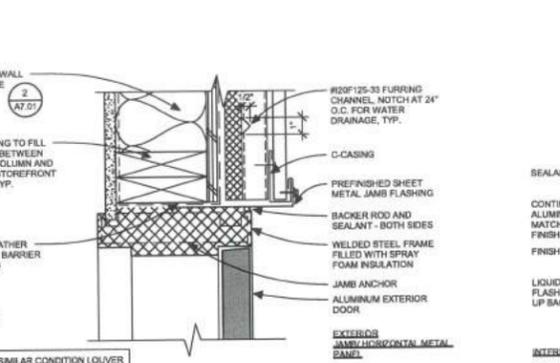
10 DOOR THRESHOLD
3" = 1'-0"



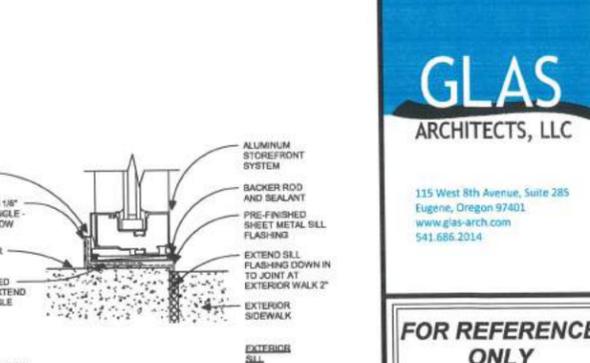
1 ALUMINUM DOOR AT EXTERIOR WALL TYPE 1
3" = 1'-0"



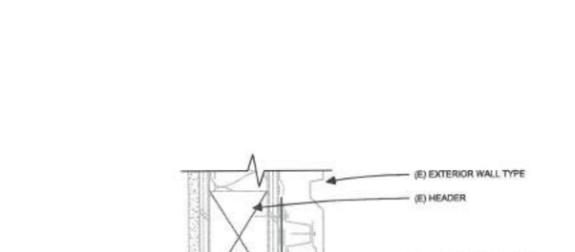
2 ALUMINUM DOOR AT EXTERIOR WALL TYPE 1
3" = 1'-0"



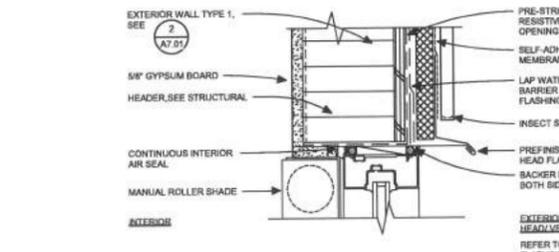
2 RELITE AT ENTRANCE
3" = 1'-0"



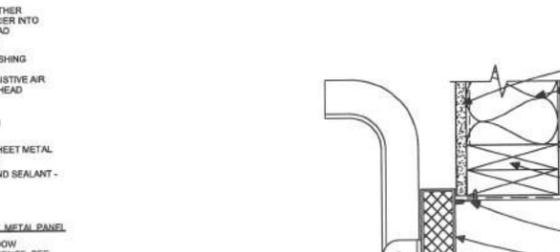
2 RELITE AT ENTRANCE
3" = 1'-0"



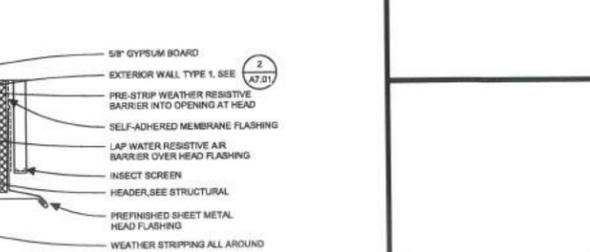
2 WINDOW AT EXTERIOR WALL TYPE 1
3" = 1'-0"



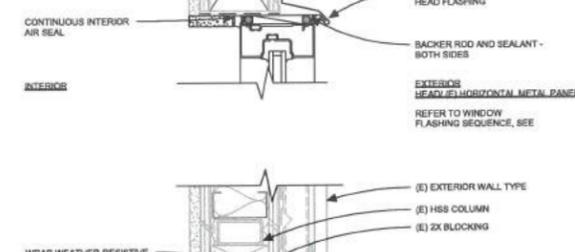
2 WINDOW AT EXTERIOR WALL TYPE 1
3" = 1'-0"



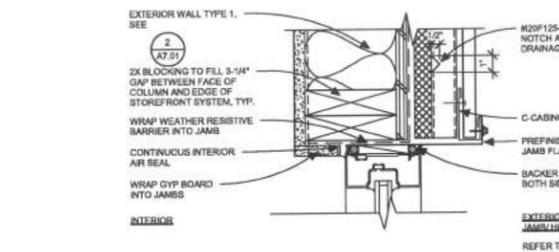
2 WINDOW AT EXTERIOR WALL TYPE 1
3" = 1'-0"



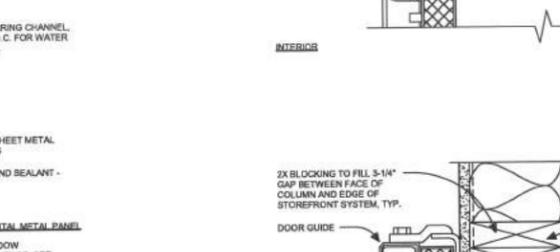
2 WINDOW AT EXTERIOR WALL TYPE 1
3" = 1'-0"



2 WINDOW AT EXTERIOR WALL TYPE 1
3" = 1'-0"



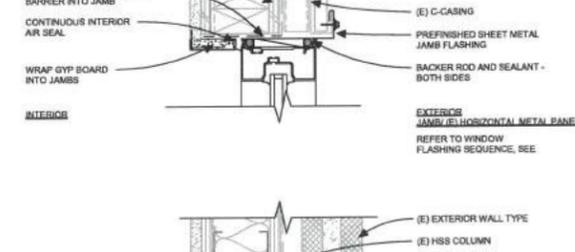
2 WINDOW AT EXTERIOR WALL TYPE 1
3" = 1'-0"



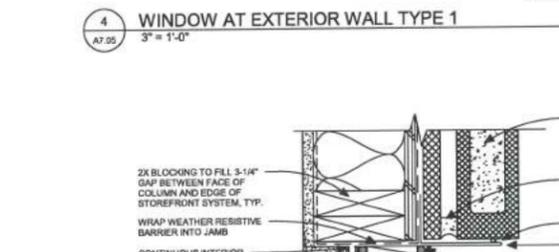
2 WINDOW AT EXTERIOR WALL TYPE 1
3" = 1'-0"



2 WINDOW AT EXTERIOR WALL TYPE 1
3" = 1'-0"



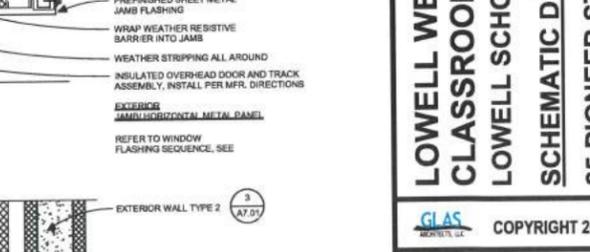
2 WINDOW AT EXTERIOR WALL TYPE 1
3" = 1'-0"



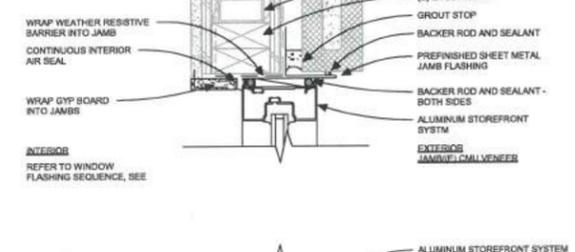
2 WINDOW AT EXTERIOR WALL TYPE 1
3" = 1'-0"



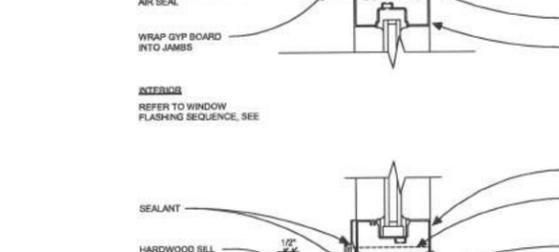
2 WINDOW AT EXTERIOR WALL TYPE 1
3" = 1'-0"



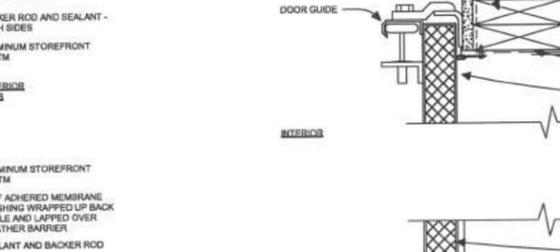
2 WINDOW AT EXTERIOR WALL TYPE 1
3" = 1'-0"



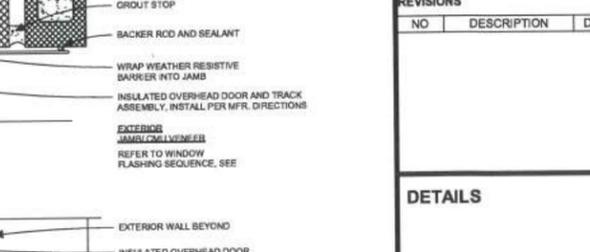
2 WINDOW AT EXTERIOR WALL TYPE 1
3" = 1'-0"



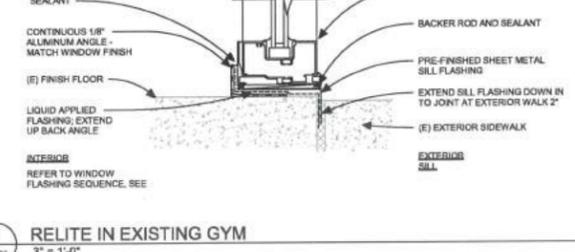
2 WINDOW AT EXTERIOR WALL TYPE 1
3" = 1'-0"



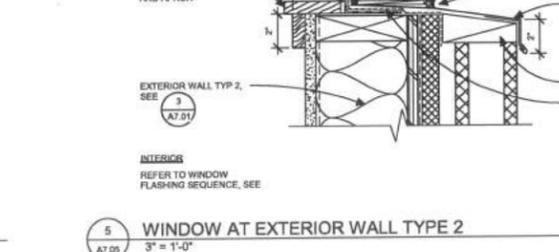
2 WINDOW AT EXTERIOR WALL TYPE 1
3" = 1'-0"



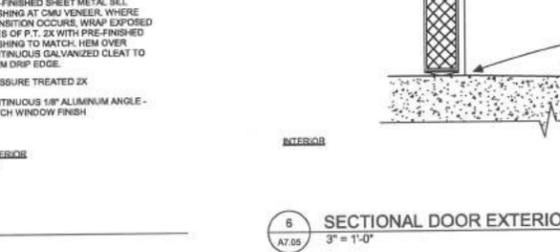
2 WINDOW AT EXTERIOR WALL TYPE 1
3" = 1'-0"



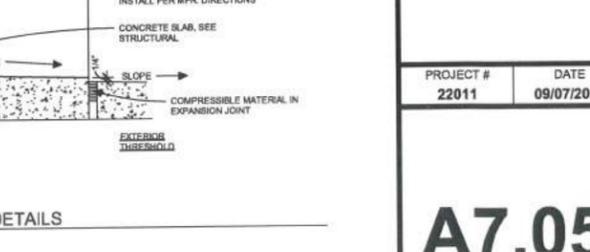
2 WINDOW AT EXTERIOR WALL TYPE 1
3" = 1'-0"



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3" = 1'-0"



2 WINDOW AT EXTERIOR WALL TYPE 1
3" = 1'-0"



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3" = 1'-0"



2 WINDOW AT EXTERIOR WALL TYPE 1
3" = 1'-0"

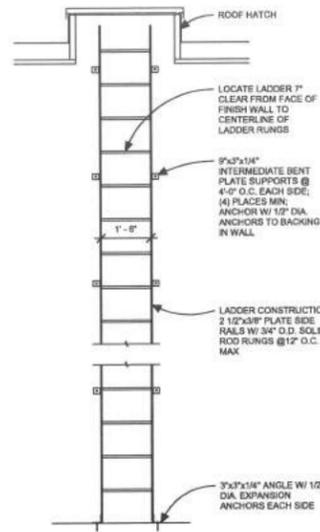


2 WINDOW AT EXTERIOR WALL TYPE 1
3" = 1'-0"

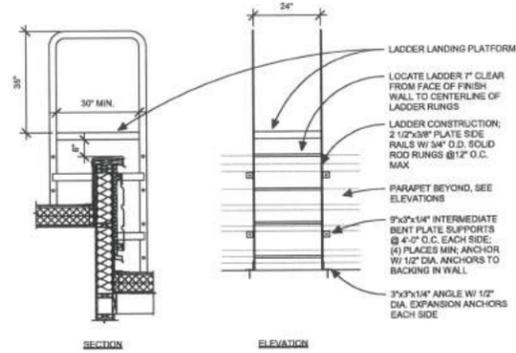
REVISIONS		
NO	DESCRIPTION	DATE

DETAILS	

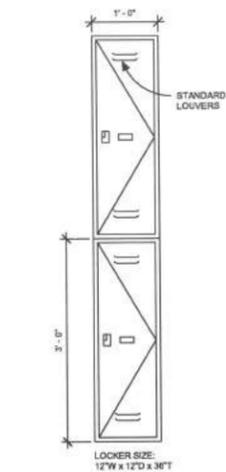
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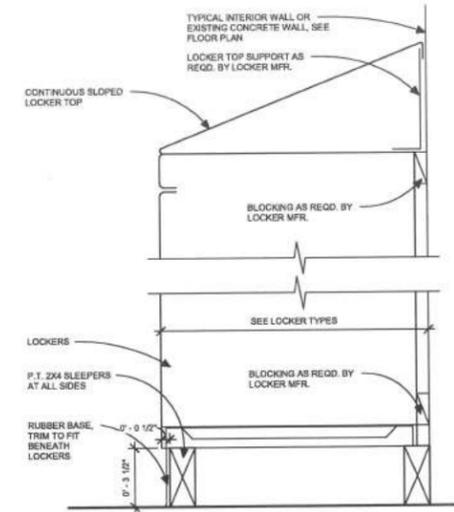
1 ROOF ACCESS LADDER DETAIL
1/2" = 1'-0"



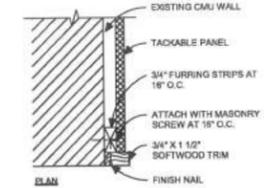
2 EXTERIOR ROOF ACCESS LADDER DETAIL
1/2" = 1'-0"



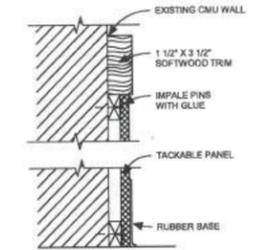
3 LOCKER TYPES
1" = 1'-0"



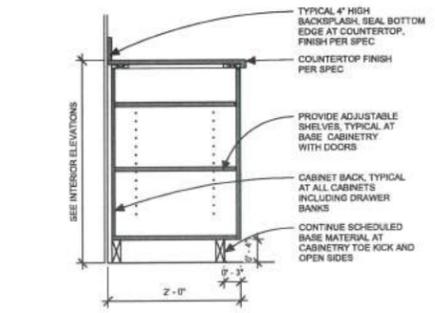
4 LOCKER BASE AND CAP SECTION
3/8" = 1'-0"



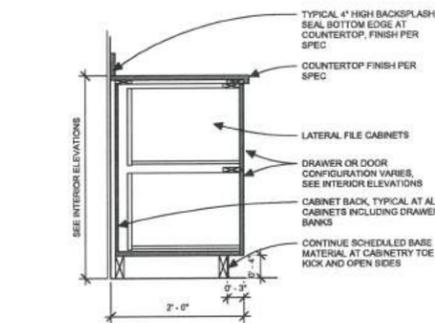
5 TACK BOARD EDGE
3/8" = 1'-0"



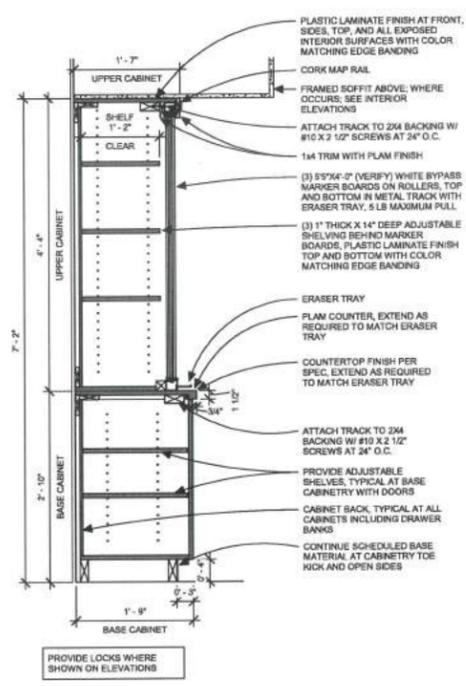
6 TACK BOARD TOP/BOTTOM
3/8" = 1'-0"



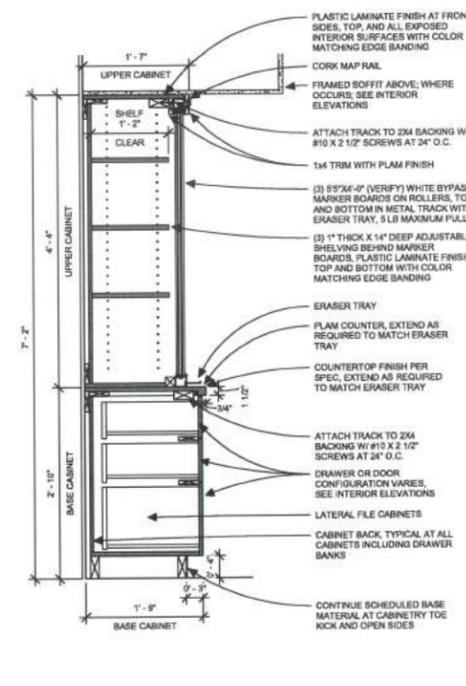
7 TYPICAL BASE CABINET
1" = 1'-0"



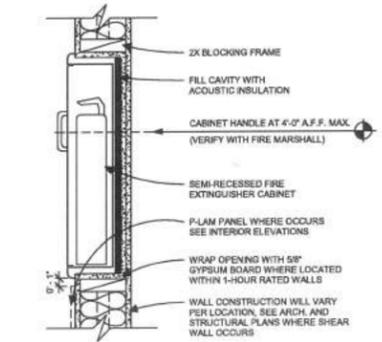
8 TYPICAL BASE FILE CABINET
1" = 1'-0"



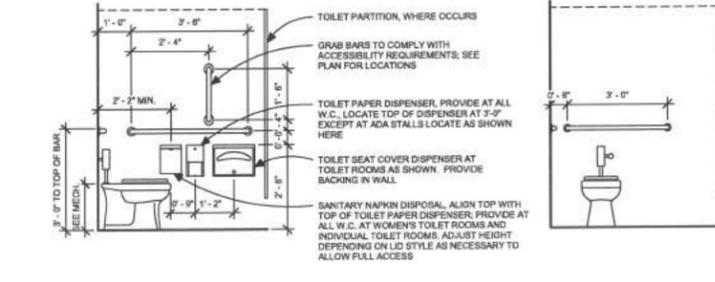
9 TEACHING WALL CABINET
1" = 1'-0"



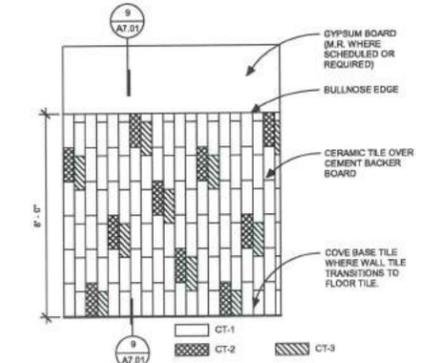
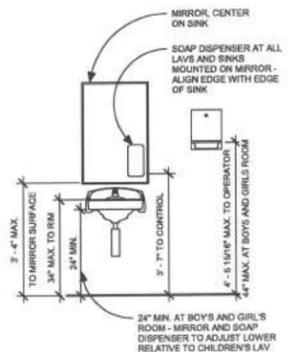
10 TYPICAL FULL HEIGHT CABINET
1" = 1'-0"



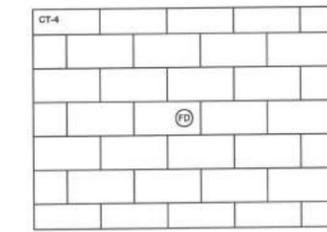
11 FIRE EXTINGUISHER CABINET
1 1/2" = 1'-0"



12 TYPICAL TOILET ACCESSORY MOUNTING
1/2" = 1'-0"



13 TILE PATTERN - TILE WAJNSCOT
1/2" = 1'-0"



14 TILE PATTERN - FLOOR
1/2" = 1'-0"

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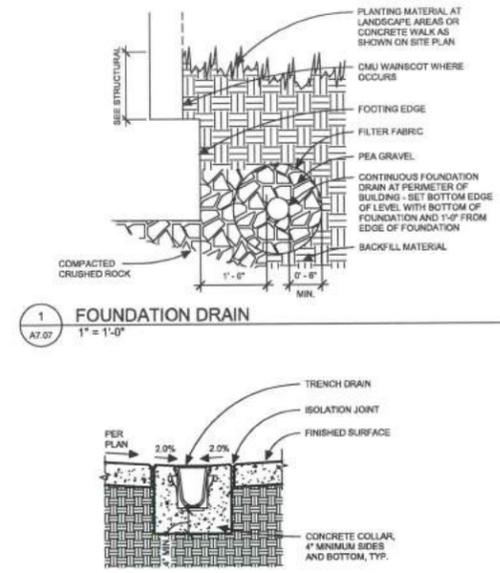
CONSULTANTS

LOWELL WEIGHT ROOM AND CLASSROOM BUILDINGS
LOWELL SCHOOL DISTRICT
SCHEMATIC DESIGN
65 PIONEER ST, LOWELL, OR 97452

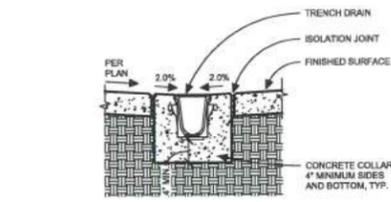
REVISIONS		
NO	DESCRIPTION	DATE

DETAILS

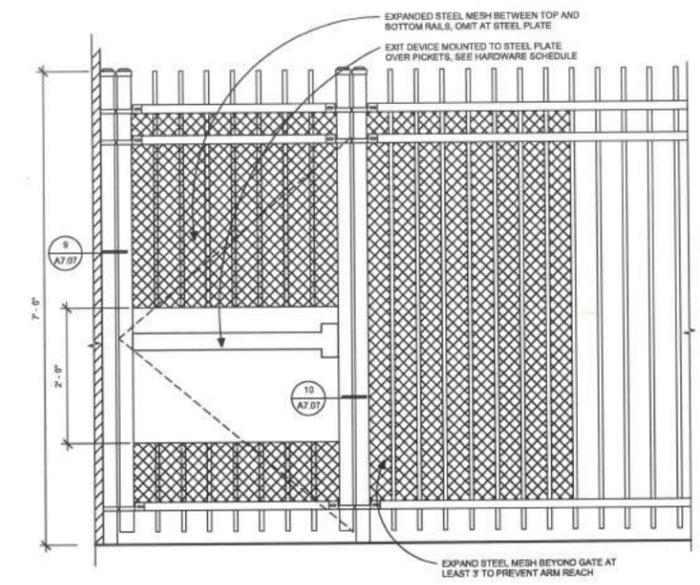
PROJECT #	DATE
22011	09/07/2022



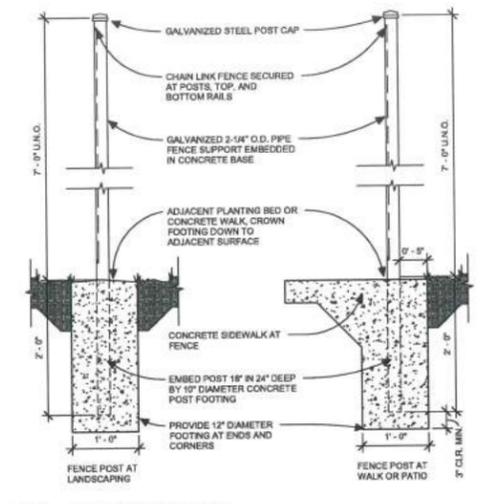
1 FOUNDATION DRAIN
1" = 1'-0"



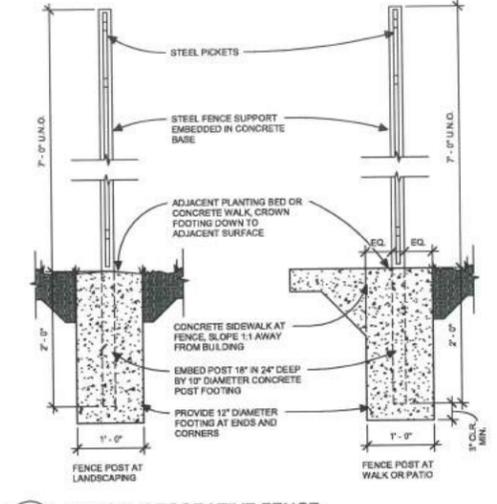
2 TYPICAL TRENCH DRAIN SECTION
1" = 1'-0"



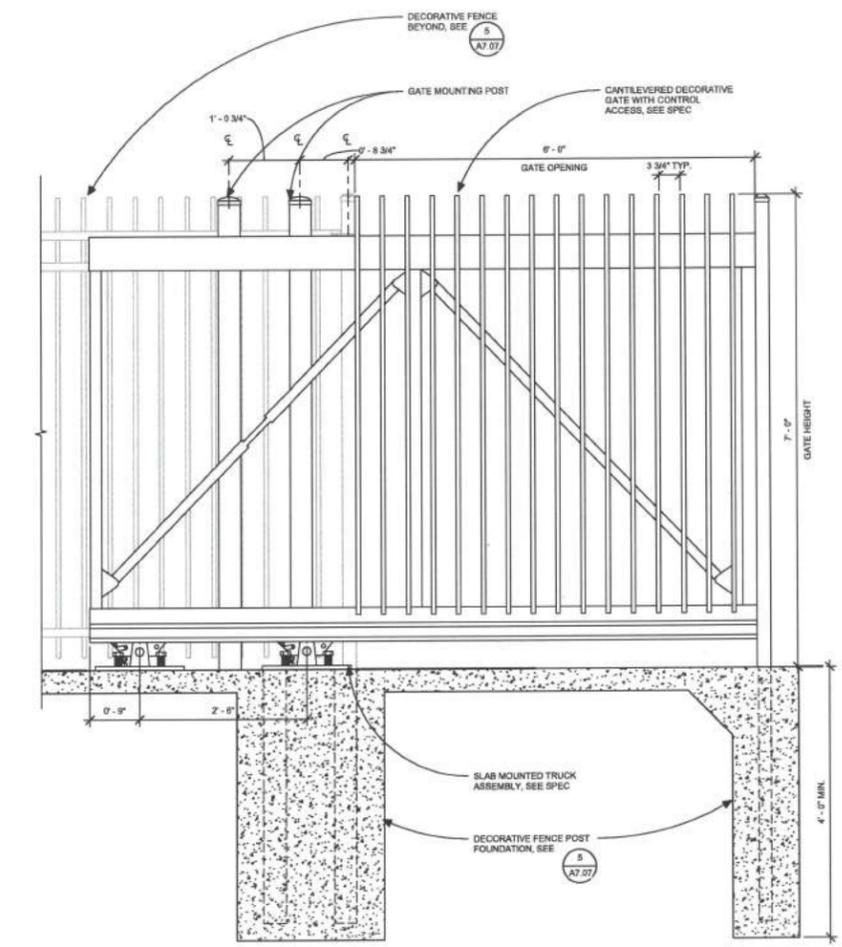
3 DECORATIVE FENCING AND GATE
1" = 1'-0"



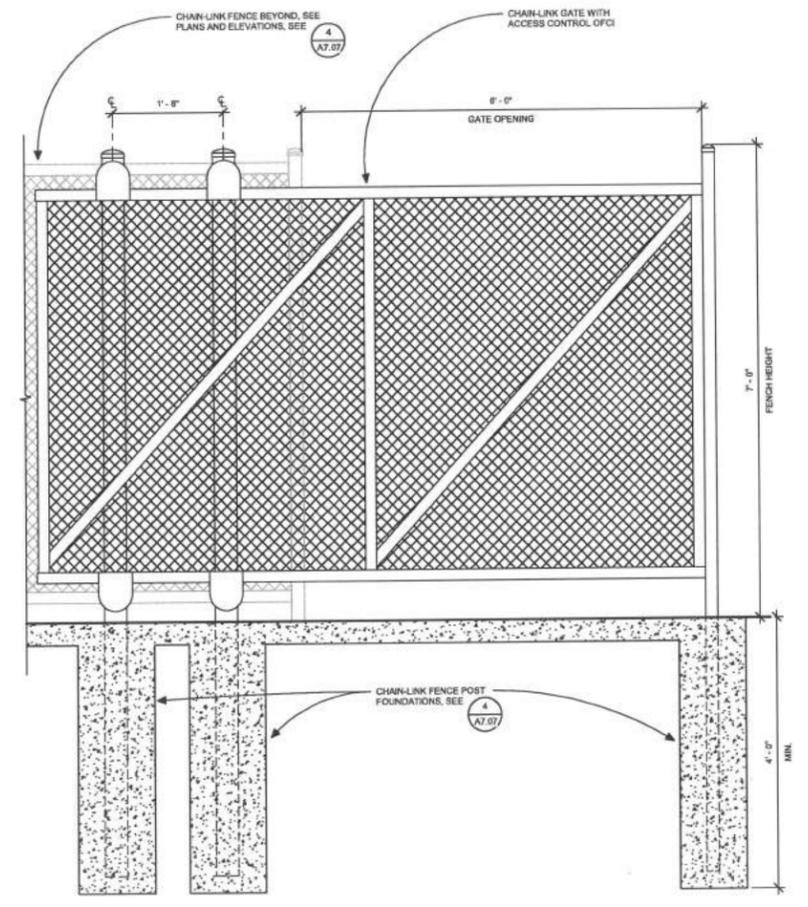
4 CHAIN-LINK FENCE
1" = 1'-0"



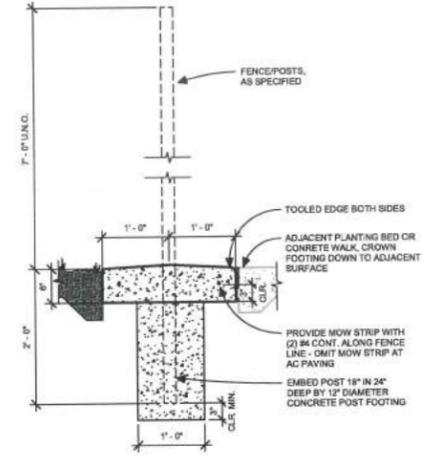
5 TYPICAL DECORATIVE FENCE
1" = 1'-0"



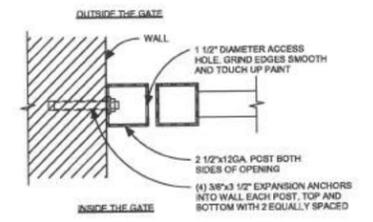
6 CANTILEVERED MOTORIZED GATE
1" = 1'-0"



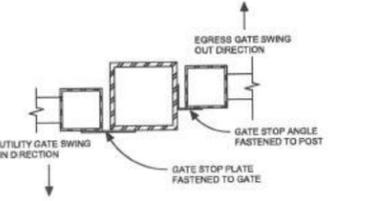
7 CHAIN-LINK CANTILEVERED GATE
1" = 1'-0"



8 MOW EDGE AT FENCE
1" = 1'-0"



9 GATE JAMB AT WALL
3" = 1'-0"



10 GATE POST AND STOP
3" = 1'-0"

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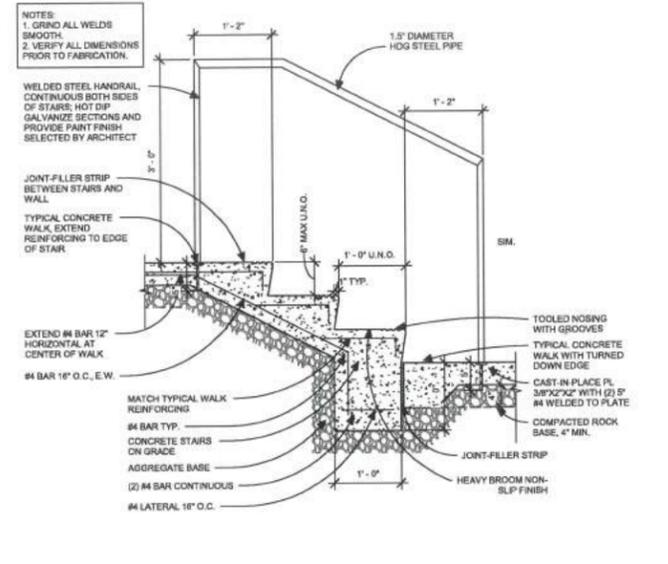
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NO	DESCRIPTION	DATE

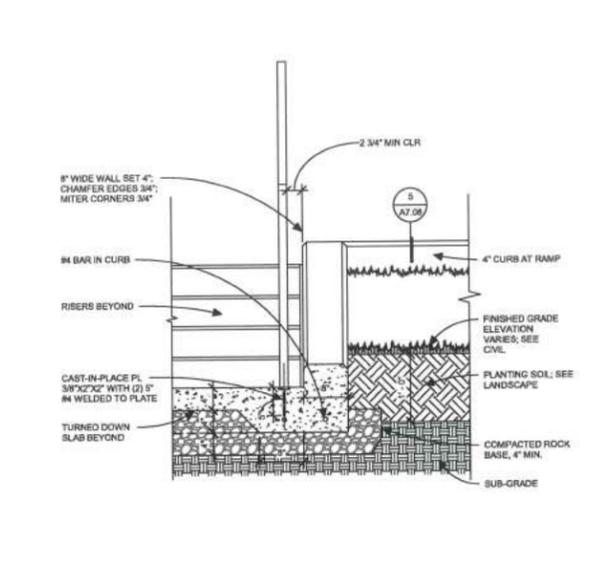
DETAILS

PROJECT #	DATE
22011	09/07/2022

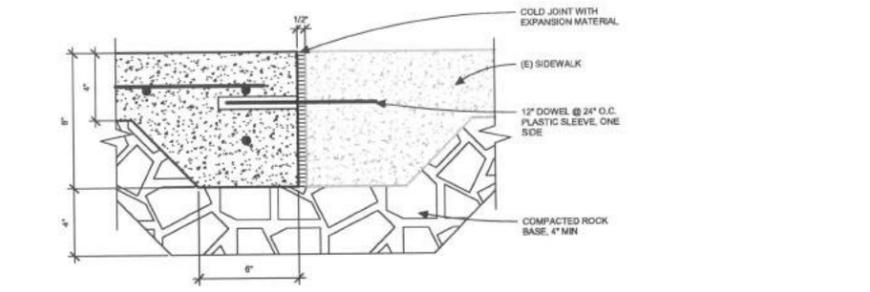
A7.07



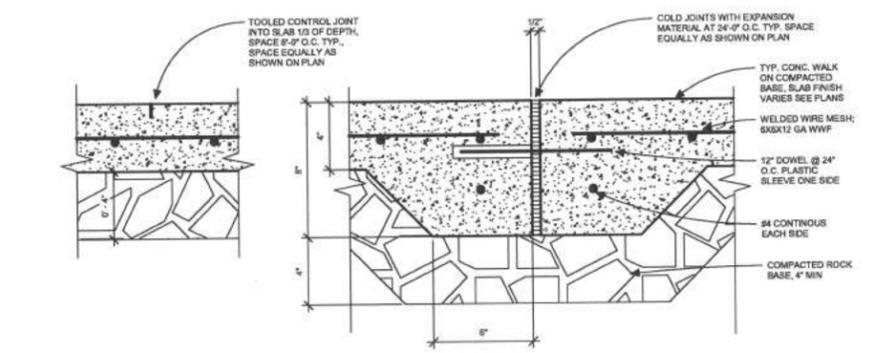
1 EXTERIOR STAIRS
A7.08 1' = 1'-0"



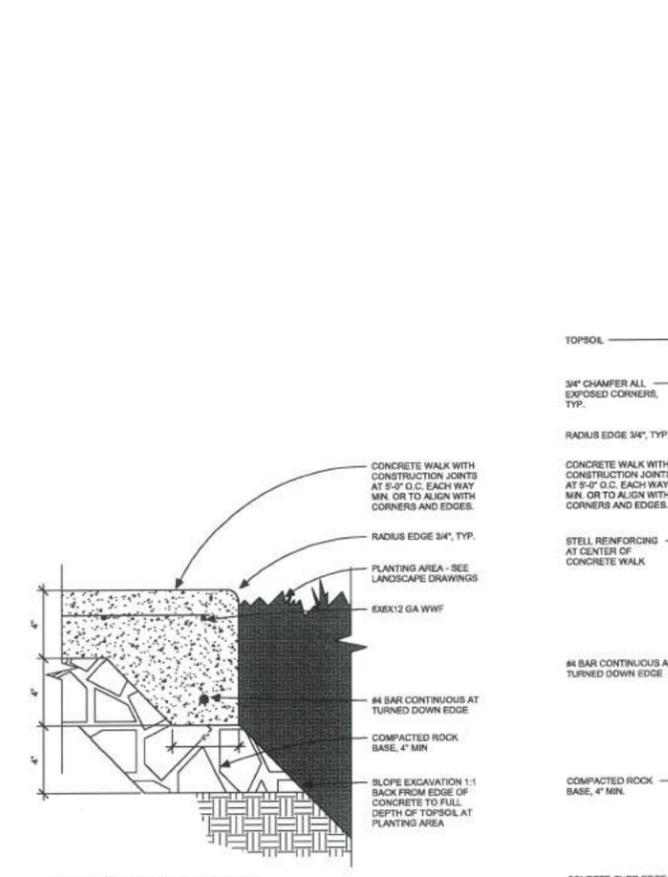
2 EXTERIOR CURB WALL AT STAIRS
A7.08 1' = 1'-0"



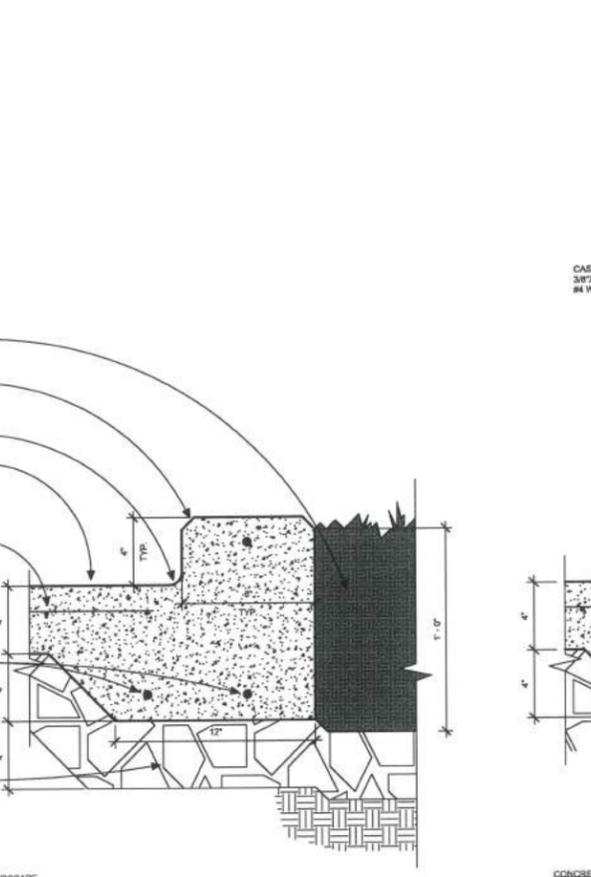
3 (E) SIDEWALK AND NEW SIDEWALK CONNECTION
A7.08 3' = 1'-0"



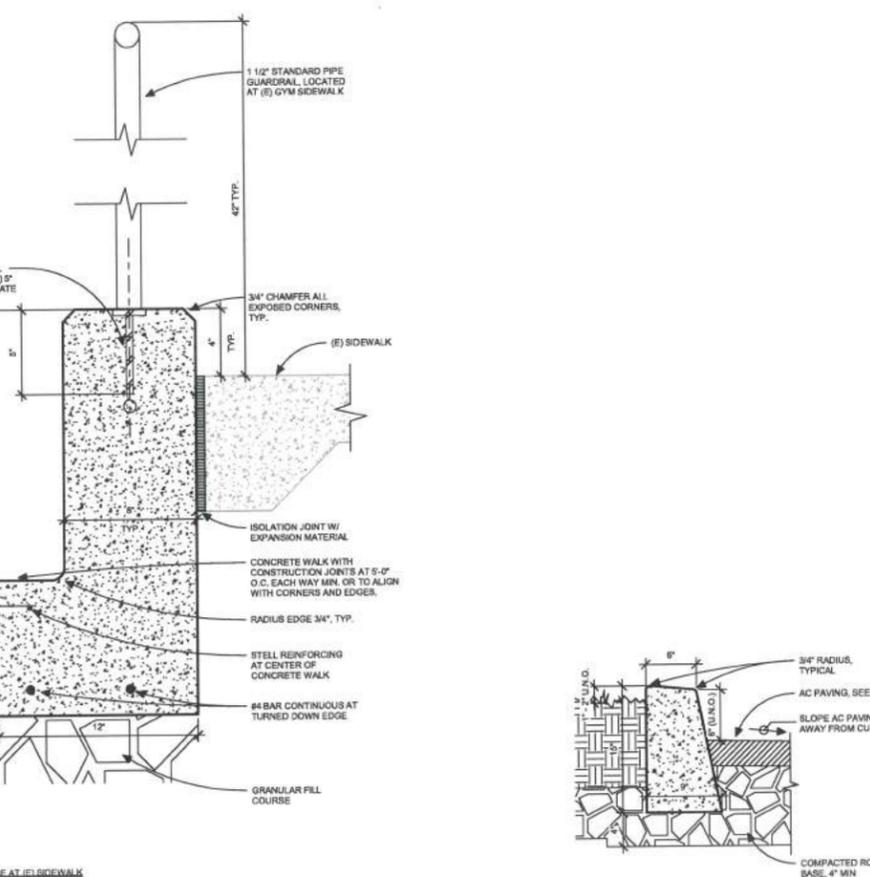
4 TYPICAL CONCRETE WALK JOINTS
A7.08 3' = 1'-0"



5 EDGE OF CONCRETE WALK
A7.08 3' = 1'-0"



6 CONCRETE CURB EDGE AT LANDSCAPE
A7.08 3' = 1'-0"



7 CURB DETAILS
A7.08 1 1/2' = 1'-0"

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NO	DESCRIPTION	DATE

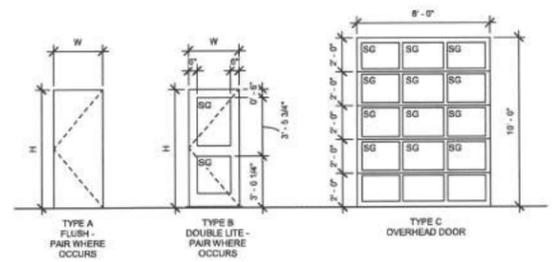
DETAILS

PROJECT #	DATE
22011	09/07/2022

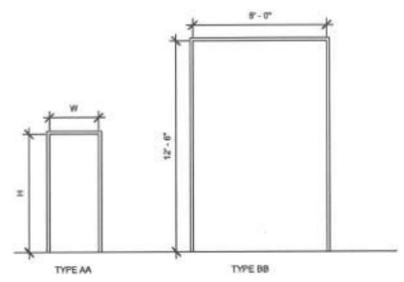
A7.08

DOOR AND FRAME SCHEDULE

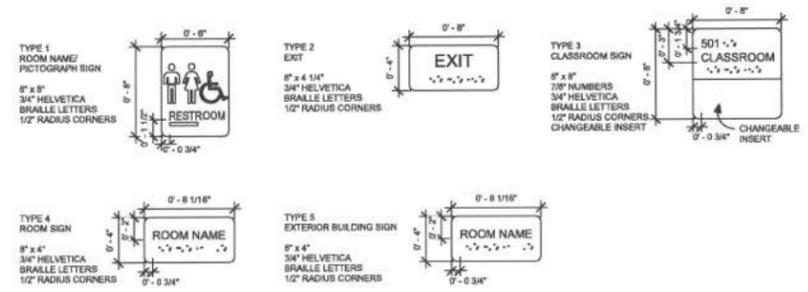
DOOR NO.	DOOR					FRAME				HW GROUP	FIRE RATING	KEY NOTES	Comments
	WIDTH	HEIGHT	MAT.	TYPE	ACCESS CONTROL	FIN.	MAT.	TYPE	FIN.				
101A	3'-0"	7'-0"	ALUM	B		FACT	ALUM	E	FACT				
102A	3'-0"	7'-0"	WD	A		FACT	HM	G	I-5.3C				
103A	3'-0"	7'-0"	WD	A		FACT	HM	G	I-5.3C				
104A	3'-0"	7'-0"	WD	A		FACT	HM	AA	I-5.3C				
105A	3'-0"	7'-0"	WD	A		FACT	HM	AA	I-5.3C				
106A	3'-0"	7'-0"	HM	B		FACT	HM	AA	FACT				
106B	8'-0"	10'-0"	ALUM	C		FACT	ALUM	BB	FACT		as Specified		
106C	8'-0"	10'-0"	ALUM	C		FACT	ALUM	BB	FACT		as Specified		
106D	3'-0"	7'-0"	HM	B		FACT	HM	AA	I-5.3C				
107A	3'-0"	7'-0"	WD	A		FACT	HM	AA	I-5.3C				
108A	6'-0"	7'-0"	HM	A		FACT	HM	AA	FACT				
109A	3'-0"	7'-0"	WD	A		FACT	HM	AA	FACT				
110A	3'-0"	7'-0"	ALUM	B		FACT	HM	AA	FACT				
111A	3'-0"	7'-0"	ALUM	A		FACT	ALUM	AA	FACT				
A	3'-0"	7'-0"	ALUM	B		FACT	ALUM	D	FACT				



SG - SAFETY GLAZING
DOOR TYPES
1/4" = 1'-0"



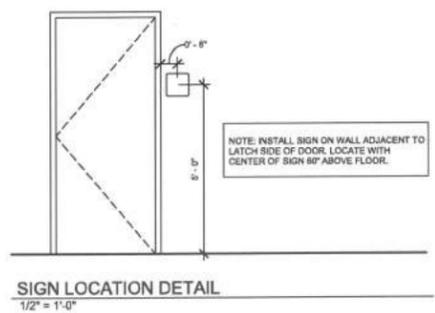
FRAME TYPES
1/4" = 1'-0"



SIGN TYPES
2" = 1'-0"

SIGN SCHEDULE

RM	CONTENTS	LOCATION	TYPE	NOTES
EXTERIOR	CLASSROOMS AND WEIGHT ROOM	ADJACENT TO DOOR 101A	5	
EXTERIOR	WEIGHT ROOM	ADJACENT TO DOOR 111A	5	
EXTERIOR	FIRE SPRINKLER	ADJACENT TO DOOR 112A	5	
101	EXIT	ADJACENT TO DOOR 101A	2	
102	CLASSROOM	ADJACENT TO DOOR 102A	3	
103	CLASSROOM	ADJACENT TO DOOR 103A	3	
104	WEIGHT ROOM AND RESTROOMS	ADJACENT TO DOOR 104A	4	
104	EXIT	ADJACENT TO DOOR 104A	2	
105	TOILET	ADJACENT TO DOOR 105A	1	
106	TOILET	ADJACENT TO DOOR 106A	1	
107	WEIGHT ROOM	ADJACENT TO DOOR 107A	4	
107	EXIT	ADJACENT TO DOOR 107A	2	
107	EXIT	ADJACENT TO DOOR 107D	2	
107	WEIGHT ROOM	ADJACENT TO DOOR 107D	4	
108	TOILET	ADJACENT TO DOOR 108A	1	
109	STORAGE	ADJACENT TO DOOR 109A	4	
110	MEP	ADJACENT TO DOOR 110A	4	
111	EXIT	ADJACENT TO DOOR 111A	2	



ROOM FINISH SCHEDULE

ROOM NO.	ROOM NAME	FLOOR MAT.	BASE MAT.	NORTH WALL		EAST WALL		SOUTH WALL		WEST WALL		CEILING		KEY NOTES
				MAT.	FIN.	MAT.	FIN.	MAT.	FIN.	MAT.	FIN.	MAT.	FIN.	
101	VESTIBULE	CONC.	RB	GW/B PLAM	I-9.2B/FACT	GW/B PLAM	I-9.2B/FACT	GW/B PLAM	I-9.2B/FACT	GW/B PLAM	I-9.2B/FACT	GW/B	I-9.2B	
101	HALL	CONC.	RB	GW/B PLAM	I-9.2B/FACT	GW/B PLAM	I-9.2B/FACT	GW/B PLAM	I-9.2B/FACT	GW/B PLAM	I-9.2B/FACT	GW/B	I-9.2B	
102	CLASSROOM	LVT-1	RB	GW/B TB-1	I-9.2B/FACT	GW/B TB-1	I-9.2B/FACT	GW/B TB-1	I-9.2B/FACT	GW/B	I-9.2B	ACP-1	FACT	
103	CLASSROOM	LVT-1	RB	GW/B TB-1	I-9.2B/FACT	GW/B	I-9.2B	GW/B TB-1	I-9.2B/FACT	GW/B TB-1	I-9.2B/FACT	MRGB	I-9.2F	
104	UNISEX	CT-1	CT-2	MRGB/CT-2	I-9.2F/FACT	MRGB/CT-2	I-9.2F/FACT	MRGB/CT-2	I-9.2B/FACT	MRGB/CT-2	I-9.2F/FACT	MRGB	I-9.2F	
105	UNISEX	CT-1	CT-2	MRGB/CT-2	I-9.2F/FACT	MRGB/CT-2	I-9.2F/FACT	MRGB/CT-2	I-9.2B/FACT	MRGB/CT-2	I-9.2F/FACT	MRGB	I-9.2F	
106	WEIGHT ROOM	CONC.	RB	GW/B	I-9.2B	GW/B	I-9.2B	GW/B	I-9.2B	GW/B	I-9.2B	STRUCT	VERIFY	
107	UNISEX	CT-1	CT-2	MRGB/CT-2	I-9.2F/FACT	MRGB/CT-2	I-9.2F/FACT	MRGB/CT-2	I-9.2B/FACT	MRGB/CT-2	I-9.2F/FACT	MRGB	I-9.2F	
108	STORAGE	CONC.	RB	GW/B	I-9.2B	GW/B	I-9.2B	GW/B	I-9.2B	GW/B	I-9.2B	STRUCT	VERIFY	
109	MEP	CONC.	RB	GW/B	I-9.2B	GW/B	I-9.2B	GW/B	I-9.2B	GW/B	I-9.2B	STRUCT	VERIFY	
110	VESTIBULE	CONC.	RB	GW/B	I-9.2B	GW/B	I-9.2B	GW/B	I-9.2B	GW/B	I-9.2B	ACP-1	FACT	
111	FIRE SPRINKLER	CONC.										STRUCT	VERIFY	

GENERAL NOTES

- WHERE MORE THAN ONE FINISH IS NOTED, REFER TO ARCHITECTURAL DRAWINGS FOR COORDINATION.
- SEE REFLECTED CEILING PLANS FOR FINISH CEILING HEIGHTS.
- AT LOCATIONS WHERE PEMB METAL AND STEEL STRUCTURAL COMPONENTS REMAIN EXPOSED, FINISH WITH PAINT SYSTEMS PER SPECIFICATION.
- WHERE MRGB IS INDICATED ON THE ROOM FINISH SCHEDULE, INSTALL MOISTURE RESISTANT GYPSUM BOARD FULL HEIGHT.

KEY NOTES

- PAINT OUT STRUCTURE PER EXTERIOR FINISH REQUIREMENTS; SEE ELEVATION DRAWINGS.
- PROVIDE BIRD NETTING AT UNDERSIDE OF ROOF STRUCTURE THIS SPACE.
- PLYWOOD WALL FINISH UP TO 8'-0", EXPOSED AIR VAPOR BARRIER ABOVE.

ABBREVIATIONS

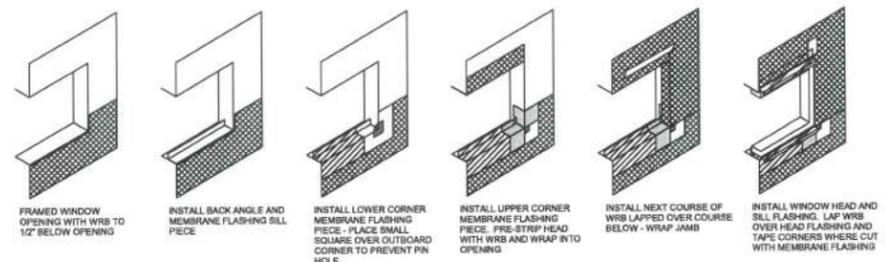
ACP-1	2M SUSPENDED ACOUSTIC CEILING TILE TYPE I
CONC	CONCRETE
FACT	FACTORY FINISH
GW/B	GYPSUM WALL BOARD
I-X	INTERIOR PAINT SYSTEM
MRGB	MOISTURE RESISTANT GYPSUM BOARD
PLAM	PLASTIC LAMINATE
PLY	PLYWOOD
STRUCT	EXPOSED STRUCTURE
RB	RESILIENT BASE
SC	SELF-COVE SHEET VINYL FLOORING
SV	SHEET VINYL FLOORING

TOILET ACCESSORY SCHEDULE

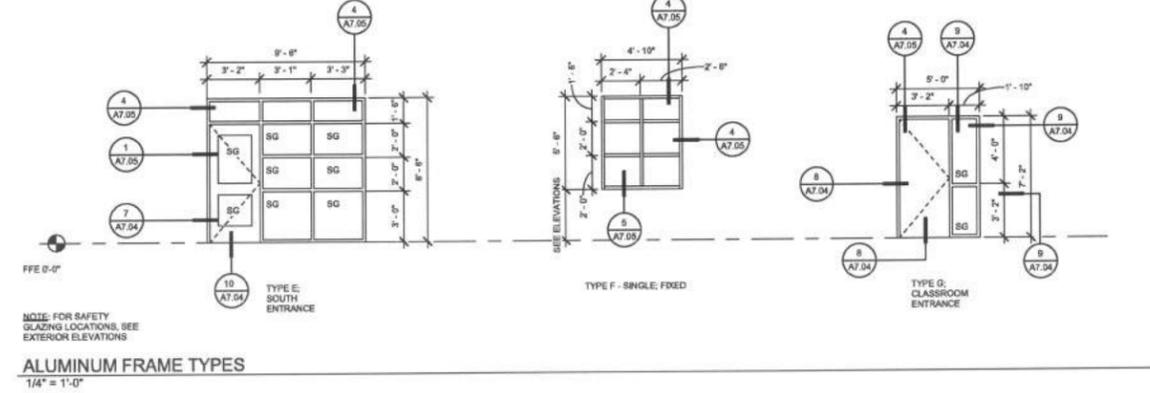
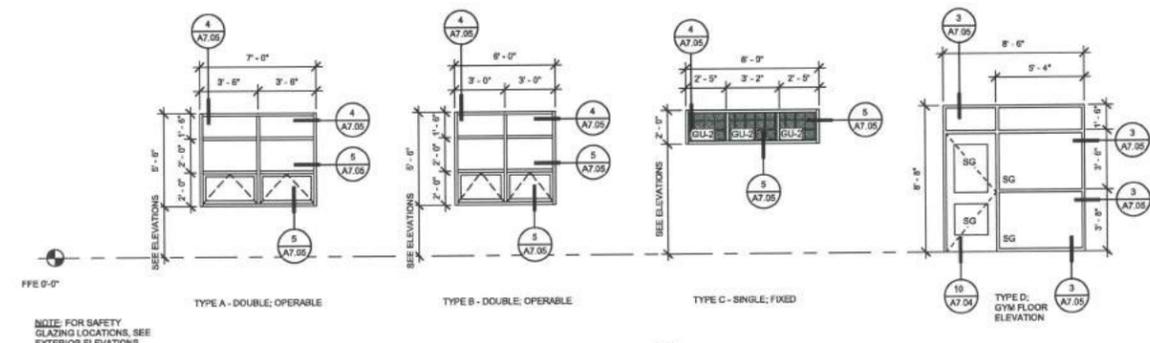
PRODUCT	TAG	DIMENSIONS	MANUFACTURER	COMMENTS
TOILET TISSUE DISPENSER	1			
PAPER TOWEL DISPENSER	2			
LIQUID-SOAP DISPENSER	3			
GRAB BAR	4			
SANITARY-NAPKIN DISPOSAL UNIT	5			
MIRROR UNIT	6			
COAT HOOK	7			

OWNER PROVIDED EQUIPMENT

EQUIPMENT	PROVIDED / INSTALLED RESPONSIBILITY			
	CFCI	OFCI	OFOICC	OFOI
3 TV MONITORS		X		
2 SMART PROJECTORS		X		
PAINTED GRAPHICS				X



WINDOW FLASHING SEQUENCE
1/2" = 1'-0"



ALUMINUM FRAME TYPES
1/4" = 1'-0"

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541.686.2014

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LOWELL SCHOOL DISTRICT
SCHEMATIC DESIGN
65 PIONEER ST, LOWELL, OR 97452

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REVISIONS

NO	DESCRIPTION	DATE

SCHEDULES

PROJECT # 22011 DATE 09/07/2022

A8.01

STRUCTURAL GENERAL NOTES

- GENERAL**
 - A. THESE DRAWINGS ARE COPY RIGHTED INSTRUMENTS OF SERVICE OF HOHBACH-LEWIN, INC. FOR USE ONLY ON THIS PROJECT.
 - B. CONTRACTOR RESPONSIBILITY - CONSTRUCTION DOCUMENTS REPRESENT THE FINISHED STRUCTURE. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, SEQUENCES AND SAFETY PRECAUTIONS, INCLUDING BUT NOT LIMITED TO SHORING AND TEMPORARY BRACINGS.
 - C. DIMENSIONS - USE WRITTEN DIMENSIONS ONLY. VERIFY ALL DIMENSIONS AT JOB SITE BEFORE COMMENCING WORK AND REPORT ANY DISCREPANCIES WHERE NO DIMENSIONS ARE PROVIDED. OBTAIN CLARIFICATION PRIOR TO PROCEEDING WITH WORK. DO NOT SCALE DRAWINGS.
 - D. COORDINATION - OPENINGS THROUGH WALLS AND FLOORS FOR MECHANICAL AND ELECTRICAL SYSTEMS SHALL BE COORDINATED BY CONTRACTOR AND CONSTRUCTED PER TYPICAL DETAILS SHOWN IN THESE DOCUMENTS. NO HANGERS OR BRACINGS SHALL BE DESIGNED OR DETAILING SHALL BE EMBEDDED IN SLABS OR WALLS UNLESS SPECIFICALLY DETAILED IN THESE DOCUMENTS.
 - E. OMISSIONS AND CONFLICTS - OMISSIONS OR CONFLICTS BETWEEN VARIOUS ELEMENTS OF THE CONSTRUCTION DOCUMENTS SHOULD BE BROUGHT TO THE ATTENTION OF THE DESIGN TEAM. IF CERTAIN FEATURES ARE NOT FULLY DELINEATED IN THE CONSTRUCTION DOCUMENTS, THEIR CONSTRUCTION SHALL BE OF THE SAME CHARACTER AS FOR SIMILAR CONDITIONS THAT ARE DETAILED.
 - F. STRUCTURAL DRAWINGS ARE INTENDED TO BE USED WITH ARCHITECTURAL AND MECHANICAL DRAWINGS. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING SUCH REQUIREMENTS INTO THEIR SHOP DRAWINGS AND WORK.
 - G. THERE SHALL BE NO CHANGE IN SIZE OR DIMENSION OF A STRUCTURAL MEMBER, NOR SHALL ANY OPENINGS BE MADE IN ANY STRUCTURAL MEMBER, WITHOUT THE WRITTEN APPROVAL OF THE ENGINEER.
 - H. THE CONTRACTOR IS RESPONSIBLE FOR LIMITING THE AMOUNT OF CONSTRUCTION LOAD IMPOSED UPON THE STRUCTURE. CONSTRUCTION LOADS SHALL NOT EXCEED THE DESIGN CAPACITY OF THE STRUCTURE AT THE TIME THE LOADS ARE IMPOSED.
 - I. THE CONTRACTOR SHALL INFORM THE ENGINEER IN WRITING OF ANY DEVIATION FROM THE CONTRACT DOCUMENTS.
 - J. SEE DRAWINGS OTHER THAN STRUCTURAL FOR TYPES OF FLOOR FINISH AND THEIR LOCATION, DEPRESSIONS IN FLOOR SLABS, OPENINGS IN WALLS AND FLOORS REQUIRED BY ARCHITECTURAL AND MECHANICAL FEATURES, AND ROADWAY PAVING, WALKS, RAMPS, STAIRS, CURBS, ETC.
 - K. TYPICAL DETAILS - DETAILS NOTED AS TYPICAL ARE APPLICABLE WHERE SPECIFIED ON THE STRUCTURAL DRAWINGS AND WHEREVER THE CONDITION OCCURS THROUGHOUT THE PROJECT, INCLUDING LOCATIONS WHERE THE DETAIL IS NOT EXPLICITLY SPECIFIED OR REFERENCED. IT IS THE CONTRACTOR'S RESPONSIBILITY TO IDENTIFY LOCATIONS WHERE TYPICAL DETAILS ARE APPLICABLE PRIOR TO CONSTRUCTION.

- CONCRETE**
 - A. CONCRETE SHALL BE SUPPLIED AND PLACED IN ACCORDANCE WITH ACI 318.
 - B. CONCRETE SHALL BE AS FOLLOWS:

CONCRETE USE	STRENGTH AT 28 DAYS U.O.N.	W/C RATIO	MAX. AGGREGATE SIZE	WEIGHT	SHRINKAGE	AIR CONTENT
SLAB ON GRADE	3000 psi	0.45 MAX.	3/4"	145pcf	0.45%	2%-4%
FOUNDATIONS	3000 psi	0.50 MAX.	3/4"	145pcf	-	1.5% ± 1.5%
EXTERIOR PLATWORK	3000 psi	0.45 MAX.	3/4"	145 pcf	-	4% ± 6%

- C. STRENGTH - COMPRESSIVE STRENGTH IN PSI WHEN TESTED IN ACCORDANCE WITH ASTM C39
- D. PORTLAND CEMENT SHALL CONFORM TO ASTM C-150, TYPE II.
- E. FLY ASH, ASTM C 618, CLASS F OR CLASS C, MINIMUM RECOMMENDED FLY ASH F, CONTENT BY MASS OF CEMENTITIOUS MATERIAL IS 20%. MAXIMUM RECOMMENDATION IS 25%.
- F. ADMIXTURES, MIX SHALL CONTAIN POLYMER-BASED WATER REDUCING ADMIXTURE. THE FOLLOWING TYPES OF ADMIXTURES ARE ALLOWED AS PLASTICIZERS AND/OR SET ACCELERATORS TO IMPROVE WORKABILITY: 1. ASTM C494, TYPES A, C, E, G, HIGH RANGE WATER REDUCERS SHALL ALSO MEET REQUIREMENTS OF ASTM C 1011. 2. THE INITIAL SLUMP OF THE CONCRETE BEFORE INTRODUCING ADMIXTURES SHOULD BE MINIMUM 2" INCHES.
- G. SHRINKAGE - CONTRACTOR TO PROVIDE CONCRETE MIX HISTORY DATA OR PROVIDE TESTING REPORT.
- H. MINIMUM REINF. COVER FOR CAST-IN-PLACE CONCRETE
 - 1. CONC. CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH, 3"
 - 2. CONC. FORMED BELOW GRADE OR EXPOSED TO WEATHER, NO. 6 AND GREATER 2"
 - NO. 8 AND SMALLER 1 1/2"
 - 3. CONC. NOT EXPOSED TO WEATHER NOR IN CONTACT WITH GROUND: SLABS, WALLS, AND JOISTS, NO. 11 AND SMALLER 1"
 - BEAMS AND COL. PRIMARY REINF., TIES, STRUTS, SPIRALS 1 1/2"
- I. PLACEMENT
 - 1. ALL REINFORCING BARS, ANCHOR BOLTS, AND ALL OTHER CONC. INSERTS SHALL BE WELL SECURED IN POSITION PRIOR TO PLACING CONCRETE.
 - 2. CHAMFER ALL CORNERS OF CONCRETE TO PREVENT DAMAGE.
 - 3. CONSTRUCTION TOLERANCE SHALL COMPLY TO ACI 311.
 - 4. CONCRETE SHALL BE PLACED IN A CONTINUOUS OPERATION BETWEEN PREDETERMINED CONSTRUCTION JOINTS.
 - 5. USE VIBRATORS TO CONSOLIDATE CONCRETE. DO NOT USE VIBRATORS TO MOVE CONCRETE.
 - 6. CONCRETE SHALL BE CONTINUOUSLY CURED FOR 14 DAYS AFTER PLACEMENT IN ANY APPROVED MANNER. FOOTINGS ARE EXEMPT FROM THIS REQUIREMENT.
 - 7. PATCHING OF CONCRETE: ALL HOLE AND OTHER IMPERFECTIONS ON THE SURFACES OF THE CONCRETE SHALL BE FILLED WITH GROUT, BRUSHED AND SACKED TO A UNIFORM FINISH.
- J. FOOTING PENETRATIONS - PENETRATIONS THROUGH FOOTINGS SHALL BE INSTALLED IN ACCORDANCE WITH THE TYPICAL DETAIL ON SHEET 56.01. PRIOR TO INSTALLATION OF ANY PENETRATIONS THAT DO NOT CONFORM TO THE TYPICAL DETAIL, ALERT THE ARCHITECT/ENGINEER IN WRITING.
- K. CONSTRUCTION JOINTS:
 - 1. CONSTRUCTION JOINTS SHOWN MAY BE PROVIDED AT CONTRACTOR'S OPTION. ANY PROPOSED CONSTRUCTION JOINTS NOT SHOWN MUST BE SUBMITTED TO THE DESIGN PROFESSIONAL OF RECORD FOR APPROVAL.
 - 2. ROUGHENED CONSTRUCTION JOINTS (R.C.J.) WHERE NOTED ON DRAWINGS R.C.J. ROUGHEN JOINT TO MINIMUM 1/4 INCH AMPLITUDE.
- L. INTERIOR SLAB ON GRADE:
 - 1. DO NOT ALLOW WATER TO COLLECT ON OR AROUND BUILDING PAD.
 - 2. INITIAL CURING: INITIAL CURING SHALL IMMEDIATELY FOLLOW THE FINISHING OPERATION. CONCRETE SHALL BE KEPT CONTINUOUSLY MOIST AT LEAST OVERNIGHT.
 - 3. FINAL CURING: IMMEDIATELY FOLLOWING THE INITIAL CURING AND BEFORE THE CONCRETE HAS DRIED, SLABS TO BE CONTINUOUSLY CURED FOR 7 DAYS BY NET COVERING OR MOISTURE RETAINING COVERING TO REDUCE THE LIKELIHOOD OF SHRINKAGE OR CRACKING. LIQUID MEMBRANE CURING COMPOUNDS SHALL NOT BE PERMITTED WITHOUT OWNER'S WRITTEN APPROVAL.
 - 4. INTERIOR SLABS SHALL RECEIVE A LIGHT BROOM FINISH U.O.N. TOLERANCE SHALL BE 1/8" IN 10'-0". EDGES SHALL BE SMOOTH TROWELED.
- M. ALL CONC. TO BE REINFORCED UNLESS SPECIFICALLY MARKED "NOT REINFORCED".
- N. VAPOR BARRIER:
 - 1. 15 MIL ASTM E-758 CLASS A, TYP. U.O.N.

- REINFORCING STEEL**
 - A. REINFORCING STEEL SHALL BE PLACED IN ACCORDANCE WITH ACI 318 AND ACI 308.
 - B. REINFORCING STEEL SHALL BE AS FOLLOWS:

REINF.	TYPE
BARB/TIES/SPIRALS	ASTM A615, GRADE 60, U.O.N.
WELDED WIRE REINF.	ASTM A1064, GRADE 60
SLAB AND FOUNDATIONS	ASTM A615, GRADE 60

- C. DO NOT FIELD BEND OR STRAIGHTEN IN ANY MANNER THAT WILL DAMAGE REINFORCING.
- D. PROVIDE SPLICES IN REINFORCING ONLY WHERE SHOWN ON DRAWINGS OR APPROVED IN WRITING BY ENGINEER OF RECORD.
- E. WELDING TO CONFORM TO AWS D14.

- WOOD**
 - A. FRAMING LUMBER - DOUGLAS FIR U.O.N.:
 1. JOISTS AND RAFTERS: 120.
 2. POSTS, BEAMS, AND HEADERS: NO. 2.
 3. STUDS, PLATES, BLOCKS, LIGHT FRAMING AND MISG. NO. 2.
 4. ALL LUMBER IN CONTACT WITH CONCRETE OR MASONRY TO BE PRESERVATIVE TREATED.
 5. ALL LUMBER SHALL HAVE A MAXIMUM MOISTURE CONTENT OF 19% PRIOR TO FINAL FRAMING INSPECTION.
 6. FIRE-RESISTANT TREATED FRAMING SHALL COMPLY WITH OSBC SECTION 2309.2, S.A.D. FOR FIRE RATINGS REQUIREMENTS AND LOCATIONS.
 - B. SHEATHING:
 1. ROOF SHEATHING: 5/8" INCH (19/32) APA RATED 40/20 EXPOSURE 1, (4 PLY MIN.)
 2. WALL SHEATHING: 5/8" INCH APA G-O, INTERIOR WITH EXTERIOR BLUE, (4 PLY MIN.)
 - C. STRUCTURAL COMPOSITE LUMBER:
 1. PARALLEL STRAND LUMBER 2.2E (PSL) PARALLAM SHALL BE MANUFACTURED BY WETERHABER OR EQUIVALENT APPROVED CG MANUFACTURED PRODUCT.
 - D. FRAMING HARDWARE, AS MANUFACTURED BY SIMPSON OR APPROVED EQUAL, SIMPSON DESIGNATIONS USED.
 - E. NAILS: COMMON NINE GAUGE U.O.N. NAILING TO CONFORM TO OSBC TABLE 2304.10.1 U.O.N.
 - F. BOLTS: ASTM A307, PROVIDE WASHER UNDER HEADS AND NUTS.
 - G. PROVIDE LATERAL SUPPORT FOR BEAMS, JOISTS AND RAFTERS AT ENDS AND POINTS OF BRACING.
 - H. LAG SCREWS PER ANS/ASME STANDARD B16.21 PROVIDE LEAD HOLE SAME DIAMETER AND DEPTH AS SHANK AND THEN DRILL HOLE 80% - 10% OF SHANK DIAMETER FOR THREADED PORTIONS.
 - I. HOLD-DOWNS: AS MANUFACTURED BY SIMPSON OR APPROVED EQUIVALENT
 - J. PRESSURE TREATED LUMBER:
 1. PRESURE TREATED LUMBER SHALL BE APRIS STAMPED, AMMONIACAL COPPER QUAT (ACQ), COPPER BORON AZOLE (CBA), OR BORATE TREATED ANPA STANDARD G2, MINIMUM 0.40 INCH PENETRATION INCISED.
 2. ALL PRESERVATIVE TREATED LUMBER SHALL BE FIELD-APPLIED WITH PRESERVATIVE WHERE CUT AND DRILLED ON SITE WITH COPPER NAPHTHATE OR COPPER AS METAL.
 3. USE HOT DIPPED GALVANIZED HARDWARE, E. BOLTS, NAIL, ETC. FOR ALL ATTACHMENT TO ACQ OR CBA TREATED MEMBERS.
 4. PLAN CARBON STEEL FASTENERS, INCLUDING NUTS AND WASHERS, IN 58K DOT AND ZINC BORATE PRESERVATIVE-TREATED POOD IN AN INTERIOR, DRY ENVIRONMENT SHALL BE PERMITTED PER OSBC SECTION 2304.10.5.1.

- STEEL**
 - A. STRUCTURAL STEEL, TO BE SUPPLIED DETAILED, FABRICATED AND ERECTED IN ACCORDANCE WITH A.I.S.C. SPECIFICATIONS.
 - B. U.O.N. STEEL SHALL BE AS FOLLOWS:
 1. HOLD-UP STRUCTURAL SECTIONS: ASTM A500B
 2. PIPES: ASTM A53, GR. B
 3. OTHER SHAPES AND PLATES: ASTM A58, ASTM A92 GR. 50 AS NOTED.
 4. BOLTS: ASTM A307
 5. THREADED RODS: ASTM A36, U.O.N.
 6. ANCHOR RODS: F1554 GR. 36 TYP., U.O.N.
 7. WELDING ELECTRODES: E-70XX U.O.N.
 - C. ALL STEEL EXPOSED TO WEATHER SHALL BE HOT DIP ZINC GALVANIZED U.O.N.
 - D. [VEITCH VEITCH FASTENERS, U.S.A. LLC E88-2288](http://www.veitch.com/Products/VEITCH-VEITCH-VEITCH)
 - E. IN NORMAL WEATHER CONCRETE: 0.31" DIA. X 1/4" FASTENER, 1" MIN. EMBEDMENT & EDGE DISTANCE, MIN. 4" O.C. SPACING.
 - F. EPOXY ANCHORS (CONCRETE INSTALLATION ONLY)
 - A. EPOXY ADHESIVE SHALL BE SIMPSON "SET-99" ADHESIVE ANCHOR (ESR-4051) OR EQUAL PRODUCT. ALTERNATE PRODUCTS MUST BE SUBMITTED TO E.O.R. FOR SUBSTITUTION PRIOR TO INSTALLATION PER SPECIFICATIONS.
 - B. INSTALLATION: INSTALL THE EPOXY ANCHORS IN ACCORDANCE WITH THE REQUIREMENTS GIVEN IN MANUFACTURER'S RECOMMENDATIONS FOR THE SPECIFIC ANCHOR.
 - C. SPECIAL INSPECTION SHALL BE PROVIDED IN ACCORDANCE WITH SECTION 1104 OF THE OSBC.
 - G. NOTIFY ARCHITECT IMMEDIATELY IF ELEMENTS WITH EXISTING STRUCTURE PREVENT DRILLING IN THE LOCATIONS SHOWN ON THE DRAWINGS.
 - H. EPOXYED DOUELS DO NOT SUBSTITUTE FOR HOOKED BARS. CONTRACTOR TO NOTIFY ENGINEER OF EPOXYED DOUCEL LOCATIONS.
 - I. CONCRETE AT THE OF INSTALLATION SHALL HAVE ATTAINED THE MINIMUM SPECIFIED COMPRESSIVE STRENGTH.

- EXPANSION ANCHORS (CONCRETE INSTALLATION ONLY)**
 - A. EXPANSION ANCHORS SHALL BE SIMPSON STRONG-BOLT 2 CARBON STEEL ANCHOR (ESR-3031) OR APPROVED EQUAL PRODUCT. ALTERNATE PRODUCTS MUST BE SUBMITTED TO E.O.R. FOR SUBSTITUTION PRIOR TO INSTALLATION PER SPECIFICATIONS, 1104 OF THE OSBC.
 - B. INSTALLATION: INSTALL THE EXPANSION ANCHORS IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS FOR THE SPECIFIC ANCHOR.
 - C. SPECIAL INSPECTION SHALL BE PROVIDED IN ACCORDANCE WITH SECTION 1104 OF THE OSBC.
 - D. CONCRETE AT TIME OF INSTALLATION SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3,000 PSI AND SHALL HAVE A MINIMUM AGE OF 21 DAYS
- SCREW ANCHORS (CONCRETE INSTALLATION ONLY)**
 - A. SCREW ANCHORS SHALL BE SIMPSON TITEN HD (ESR-2113) OR EQUAL APPROVED PRODUCT. ALTERNATE PRODUCTS MUST BE SUBMITTED TO E.O.R. FOR SUBSTITUTION PRIOR TO INSTALLATION PER SPECIFICATIONS.
 - B. INSTALLATION: INSTALL THE EXPANSION ANCHORS IN ACCORDANCE WITH THE REQUIREMENTS GIVEN MANUFACTURER'S RECOMMENDATIONS FOR THE SPECIFIC ANCHOR.
 - C. SPECIAL INSPECTION SHALL BE PROVIDED IN ACCORDANCE WITH SECTION 1104 OF THE OSBC.
 - D. CONCRETE AT TIME OF INSTALLATION SHALL HAVE ATTAINED THE MINIMUM SPECIFIED COMPRESSIVE STRENGTH.

SYMBOLS

STRUCTURAL SHEET INDEX

NO.	DESCRIPTION
50.01	STRUCTURAL NOTES AND SYMBOLS
50.02	STRUCTURAL NOTES AND SYMBOLS
52.02	FOUNDATION PLAN
52.10	ROOF FRAMING PLAN
55.01	TYPICAL CONCRETE DETAILS
56.02	CONCRETE DETAILS
56.01	TYPICAL C4U VENEER DETAILS
56.01	TYPICAL WOOD DETAILS
56.02	TYPICAL WOOD DETAILS
56.03	WOOD FRAMING DETAILS
56.04	WOOD FRAMING DETAILS

ABBREVIATIONS

#	AND	MAX.	MAXIMUM
#	ANCHOR BOLT	MECH.	MECHANICAL
ADPL.	ADDITIONAL	MANUF.	MANUFACTURER
ARCH.	ARCHITECTURAL	M.N.	MINIMUM
		MISC.	MISCELLANEOUS
		MTL.	METAL
BLDG.	BUILDING		
BLKS.	BLOCKING		
BSN	BEAM	N	NORTH
B.N.	BOUNDARY NAIL	(N)	NDP
B.O.	BOTTOM OF	NO.	NUMBER
B.O.C.	BOTTOM OF CONCRETE	N.S.	NEAR SIDE
BOT.	BOTTOM	N.T.S.	NOT TO SCALE
C	CENTER LINE	O.C.	ON CENTER
CANT.	CANTILEVER	OPN.	OPENING
G.I.P.	CAST-IN-PLACE	OPP.	OPPOSITE
G.J.	CONTROL JOINT	O.H.	OPPOSITE HAND
GLR	GLEAN	OSBC	OREGON STRUCTURAL SPECIALTY CODE
CMU	CONCRETE MASONRY UNIT		
COL.	COLUMN		
COMP.	COMPRESSION	E	PLATE
CONG.	CONCRETE	PERF.	PENETRATING
CONN.	CONNECTION	PLY	PLYWOOD
CONT.	CONTINUOUS	PSL	PARALLEL STRAND LUMBER
GTR.	CENTER		
DBL	DOUBLE	R.C.J.	ROUGHENED CONSTRUCTION JOINT
DET.	DETAIL	REIN.	REINFORCEMENT
D.F.	DOUGLAS FIR	REQD.	REQUIRED
DA	DIAMETER	RTU	ROOFTOP UNIT
DD	DITTO		
DWG.	DRAWINGS	S	SOUTH
E	EAST	S.A.D.	SEE ARCHITECTURAL DRAWINGS
(E)	EXISTING		
EA	EACH	S.F.	SLIP CRITICAL
E.F.	EACH FACE	S.G.D.	SEE CIVIL DRAWINGS
E.L.	ELEVATION JOINT	S.R.S.	SEISMIC RESISTING SYSTEM
EN	EDGE NAIL	SGHD.	SCHEDULE
EOR.	ENGINEER OF RECORD	SH	SH-LAR
EPL	EACH PLY	S.M.D.	SEE MECHANICAL DRAWINGS
EXP.	EXPANSION JOINT	S.O.B.	SLAB-ON-GRADE SPECIFICATION
EXT.	EXTERIOR	SS	SQUARE
FDL	FOUNDATION	S.S.	STAINLESS STEEL
FN	FINISH	STD.	STANDARD
F.F.	FINISH FLOOR	SSH	SHORT SLOTTED HOLE
F.S.	FINISHED GRADE	SYN.	SYMMETRICAL
FLR.	FLOOR		
FX	FIELD NAIL		
F.O.C.	FACE OF CONCRETE	T48	TOP AND BOTTOM TONGUE AND GROOVE
F.O.S.	FACE OF STUD	T.O.	TOP OF
F.S.	FACE SIDE	T.O.C.	TOP OF CONCRETE
FTG.	FOOTING	T.O.F.	TOP OF FOOTING
G.A.	GAUGE	T.O.S.	TOP OF STEEL FRAMING
G.B.	GRADE BEAM	T.O.P.	TOP OF PLATE/TOP OF PARAPET
G.C.	GENERAL CONTRACTOR	TRANS.	TRANSVERSE
G.LB	GLUE LAMINATED (GLUE)	TYP.	TYPICAL
HD	HOLD-DOWN	U.O.N.	UNLESS OTHERWISE NOTED
HDR	HEADER	U.T.	ULTRASONIC TESTING
HGR.	HANGER		
HT.	HORIZONTAL		
HTZ.	HORIZONTAL		
H55	HOLLOW STEEL SECTION	VERT.	VERTICAL
H56H	HORIZONTAL SHORT SLOTTED HOLES	V.I.F.	VERIFY IN FIELD
INT.	INTERIOR	W	WEST
		W	WITH
		WF	WIDE FLANGE
		WHS.	WELDED HEADED STUD
LSL	LAMINATED STRAND LUMBER	WJL	WALL JOINT
L.V.P.	LOW-VOLATILITY PASTER	W/O	WITHOUT
LVL	LAMINATED VENEER LUMBER	W.P.	WORK POINT

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LOWELL WEIGHT ROOM AND CLASSROOM BUILDINGS
LOWELL SCHOOL DISTRICT
CONSTRUCTION DOCUMENTS
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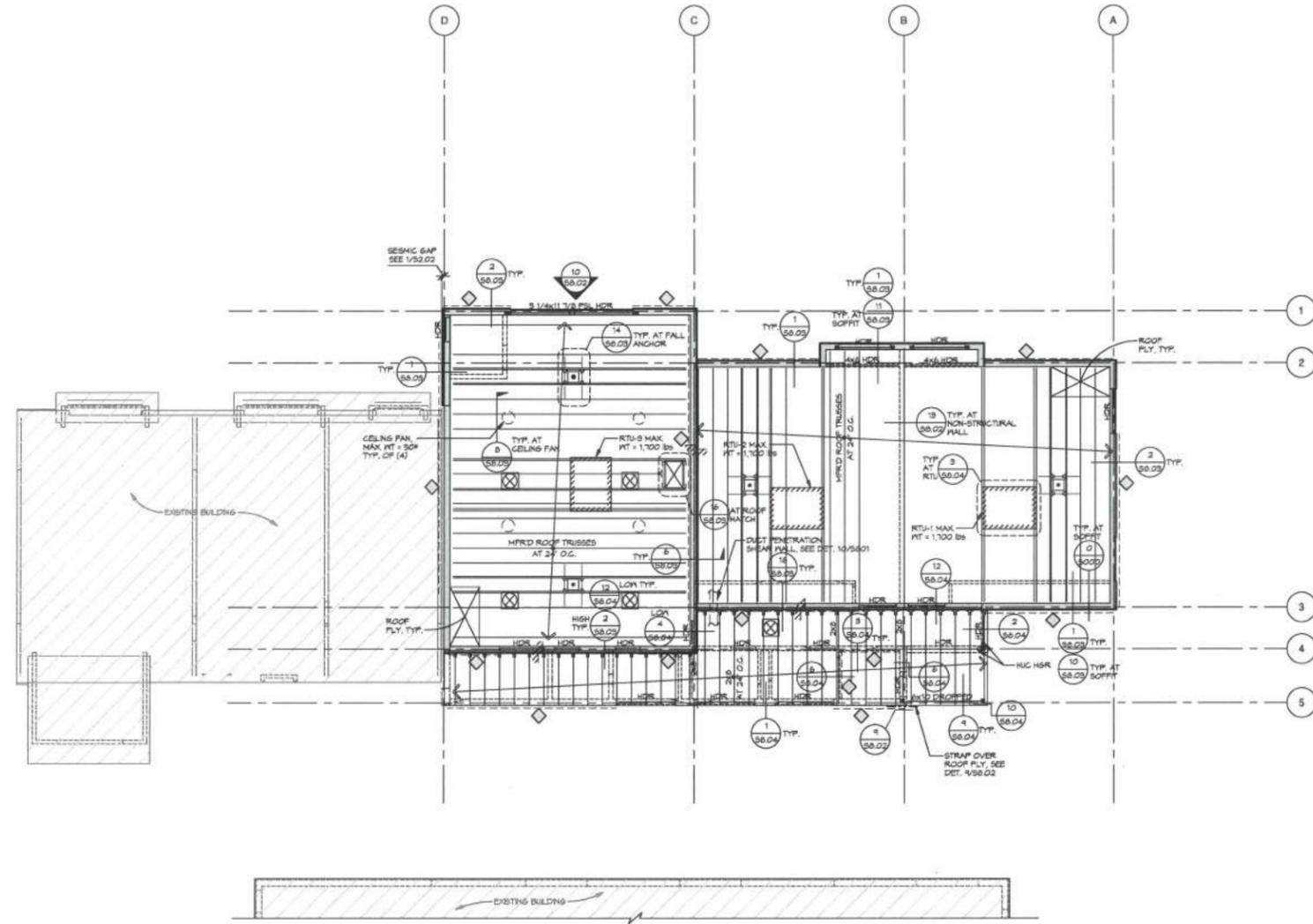
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STRUCTURAL NOTES AND SYMBOLS

PROJECT # **22011** DATE **09/07/2022**

S0.01

HOHBACH-LEWIN 10/26/22



2 ROOF FRAMING PLAN
S2.10 1/8" = 1'-0"

- ROOF FRAMING PLAN NOTES**
- FOR GENERAL NOTES AND SYMBOLS SEE S0.01 AND S0.02.
 - FOR BUILDING LAYOUT AND DIMENSIONS, ELEVATIONS, SLOPES, DEPRESSIONS, DRAINS, FINISHES, STUD WALLS, WALL OPENINGS, ETC. SEE ARCHITECTURAL DRAWINGS, TYP. U.O.N.
 - FOR MECHANICAL, ELECTRICAL, AND PLUMBING OPENINGS, SEE DRAWINGS OTHER THAN STRUCTURAL.
 - FOR TYPICAL ROOF FRAMING DETAILS, SEE SHEETS S0.01 AND S0.02.
 - FOR PREFABRICATED TRUSS NOTES SEE SHEET S0.01.
 - SEE SHEET S0.01 FOR TYPICAL PLYWOOD ROOF SHEATHING. SEE DETAIL S/50.01 FOR TYPICAL DIAPHRAGM NAILING.
 - SEE DETAIL V50.02 FOR FRAMING OF BEARINGS AND SHEAR WALLS. SEE ARCHITECTURAL DRAWINGS FOR SIZE AND LOCATION OF ALL INTERIOR WALLS.
 - FOR THE CONNECTION AT TOP OF NON-STRUCTURAL PARTITION WALLS, SEE DETAILS 13, 14 AND 15/50.02.
 - FOR ALLOWABLE HOLES AND NOTCHES AT FRAMING MEMBERS, SEE DETAILS 2 AND 3/50.02.
 - FOR SHEAR WALL FRAMING AND HARDWARE REQUIREMENTS, SEE SHEET S0.01.
 - ROOF AND WALL STRAPS ARE TO BE OVER ROOF OR WALL PLY U.O.N. SEE S0.01.
 - ALL LUMBER AND SHEATHING EXPOSED TO WEATHER SHALL BE PRESSURE TREATED.
 - SEE DETAIL 9/50.01 FOR SMALL PENETRATIONS THROUGH SHEAR WALLS. LARGER PENETRATIONS PER DET. 10/50.01 ARE ONLY PERMITTED WHERE INDICATED IN THE STRUCTURAL DRAWINGS OR WHERE APPROVED IN WRITING BY THE STRUCTURAL ENGINEER.



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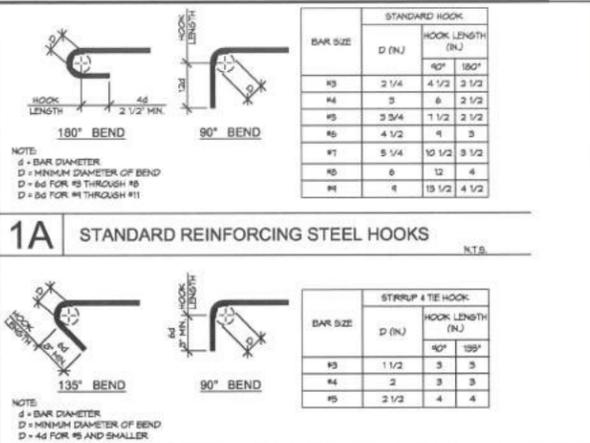
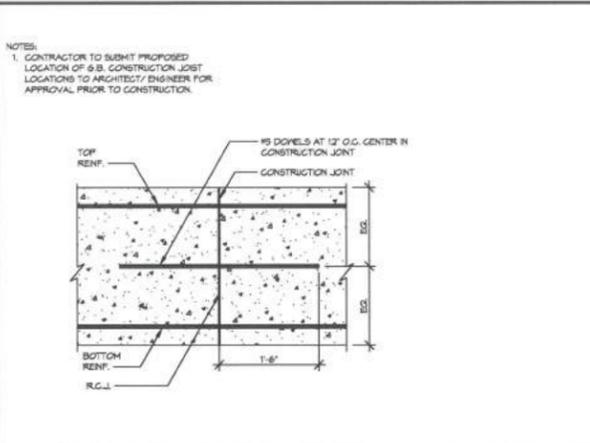
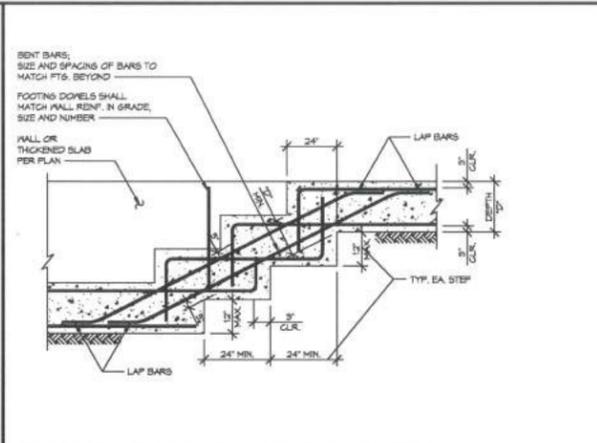
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ROOF FRAMING PLAN

PROJECT #	DATE
22011	09/07/2022

S2.10

HOBACH-LEWIN # 15462

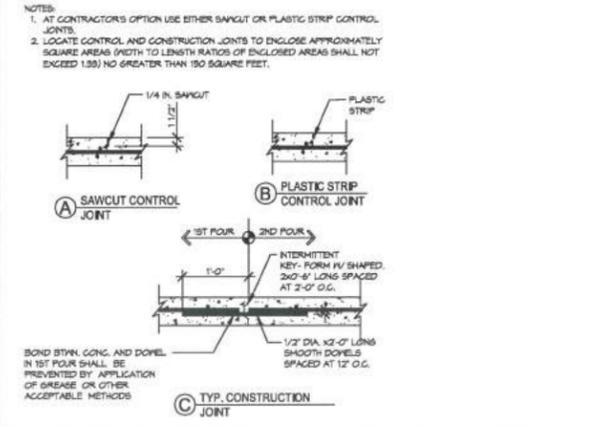


13

9 TYPICAL STEP IN CONTINUOUS FOOTING N.T.S.

5 TYPICAL GRADE BEAM CONSTRUCTION JOINT 1/4\"/>

1A STANDARD REINFORCING STEEL HOOKS N.T.S.

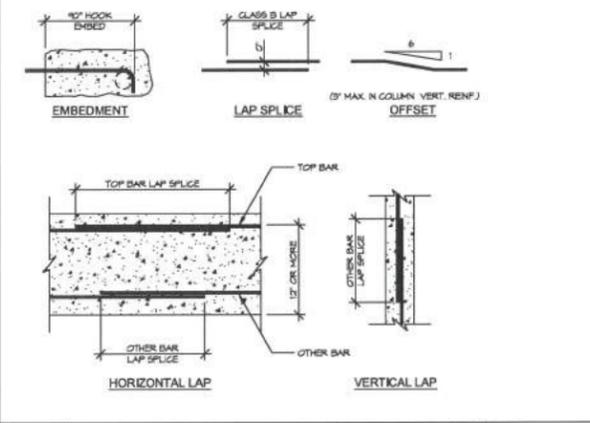
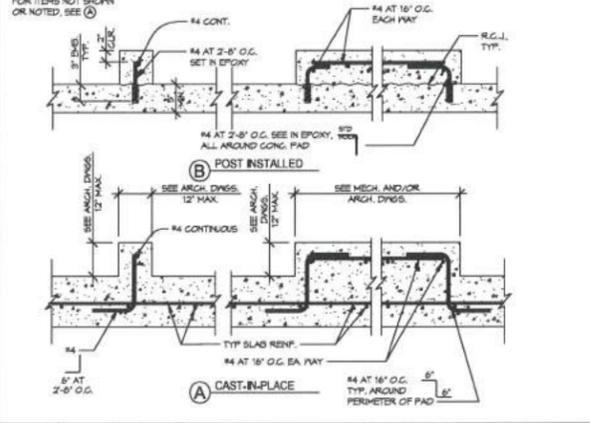
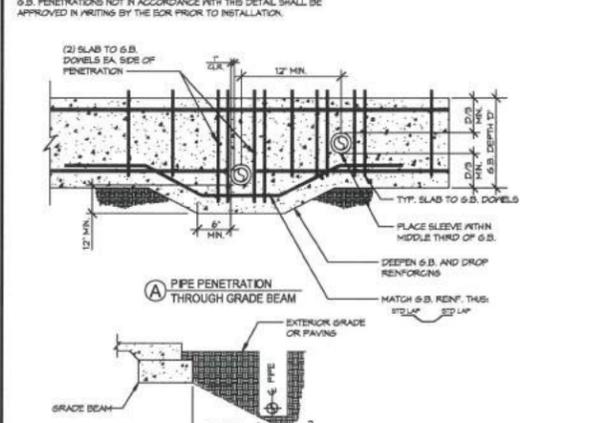


14

10 TYPICAL CONSTRUCTION AND CONTROL JOINTS AT SLAB-ON-GRADE 1/4\"/>

6 TYPICAL CONSTRUCTION AND CONTROL JOINTS AT SLAB-ON-GRADE 1/4\"/>

2 TYPICAL GRADE 60 REINFORCEMENT EMBED AND LAP SPLICE N.T.S.

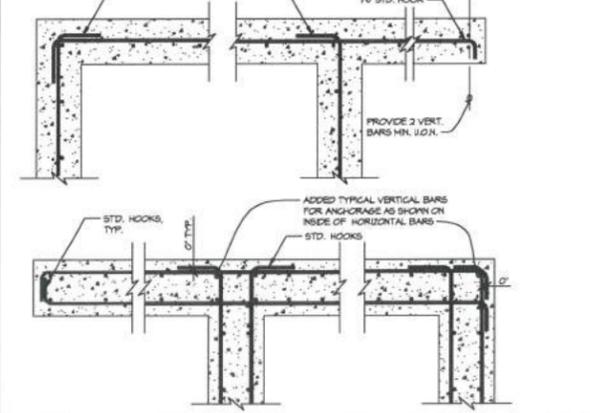
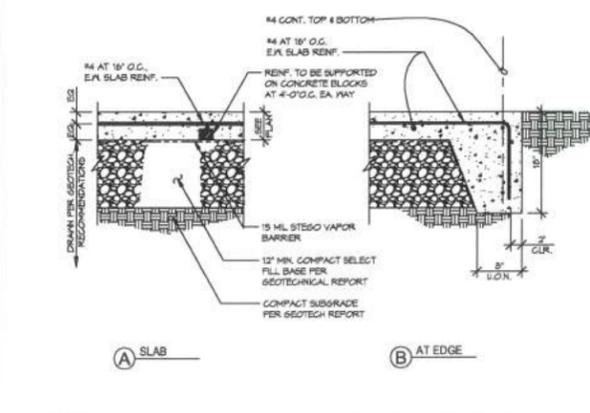
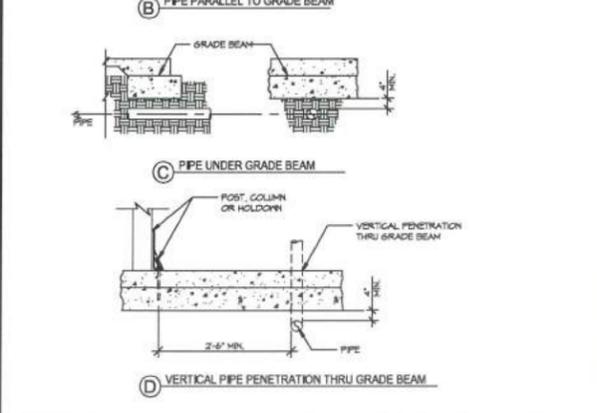


15

7 TYPICAL INTERIOR CURB AND RAISED PAD DETAILS N.T.S.

3 TYPICAL REINFORCEMENT EMBED, LAP SPLICE AND OFFSET 5/8\"/>

3 TYPICAL REINFORCEMENT EMBED, LAP SPLICE AND OFFSET 5/8\"/>



16

12 TYPICAL PIPE PENETRATION THRU OR UNDER GRADE BEAM N.T.S.

8 SLAB-ON-GRADE 1/4\"/>

4 TYPICAL CONCRETE MEMBER INTERSECTIONS 5/8\"/>



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TYPICAL CONCRETE DETAILS

PROJECT #	DATE
22011	09/07/2022

S5.01



**LOWELL WEIGHT ROOM AND
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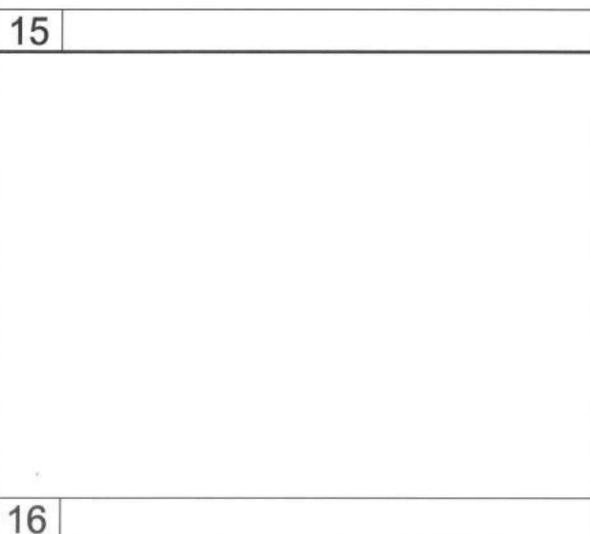
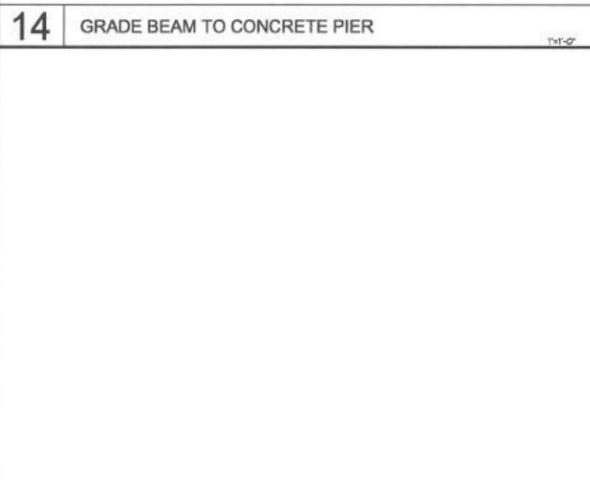
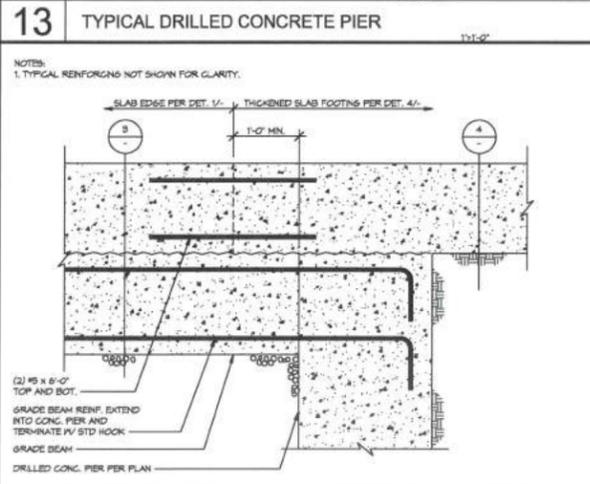
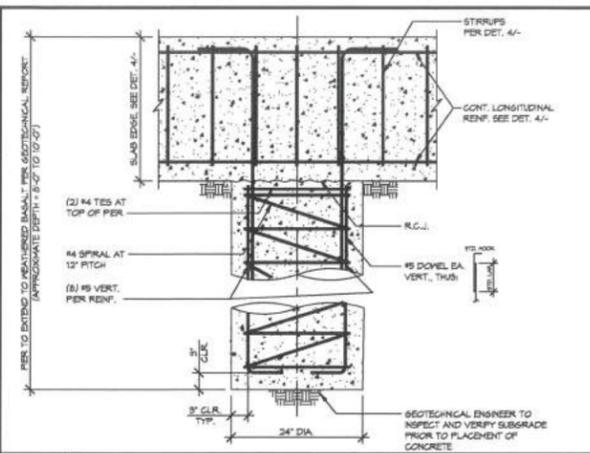
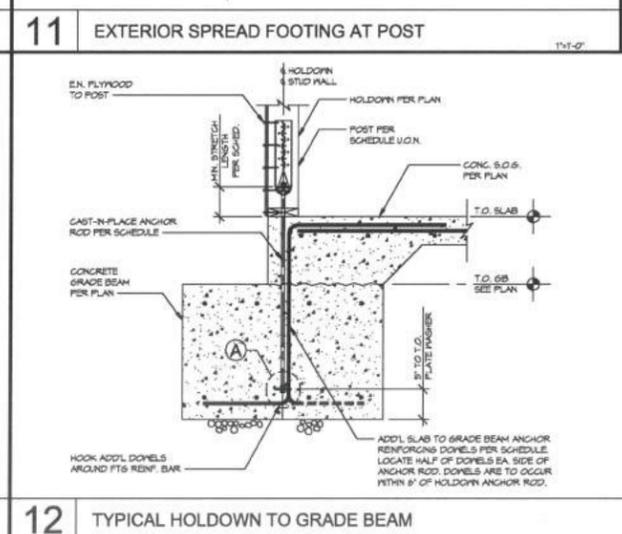
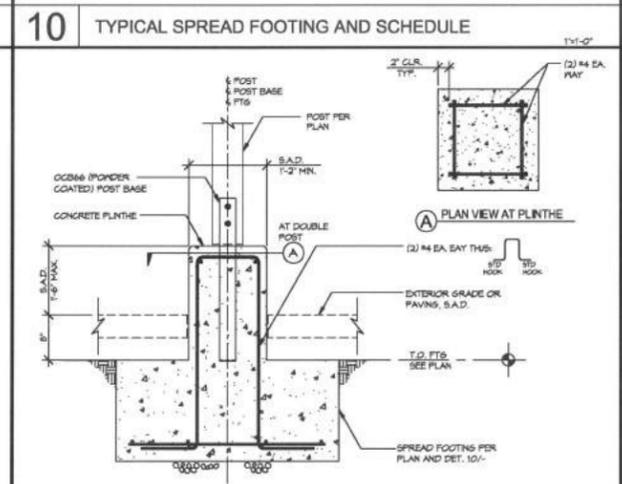
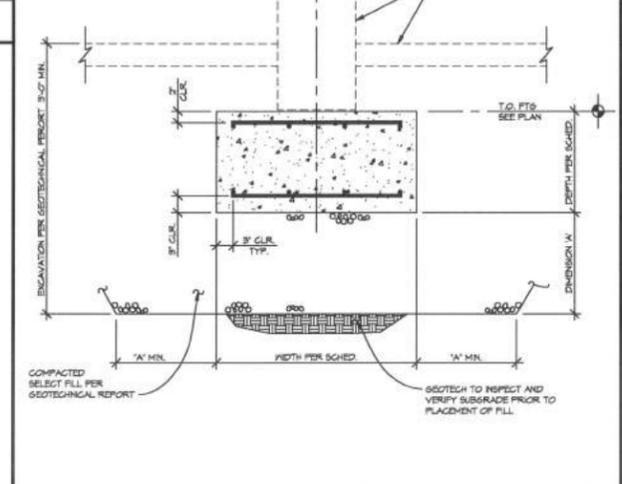
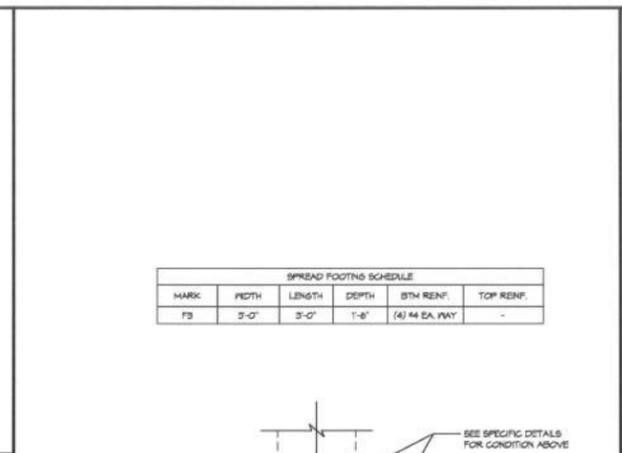
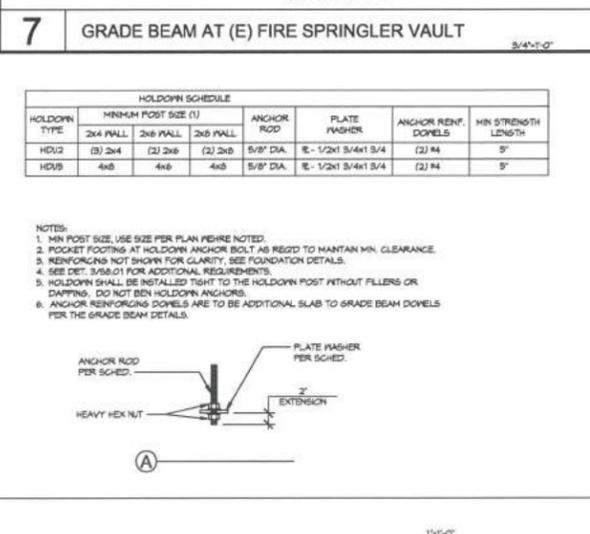
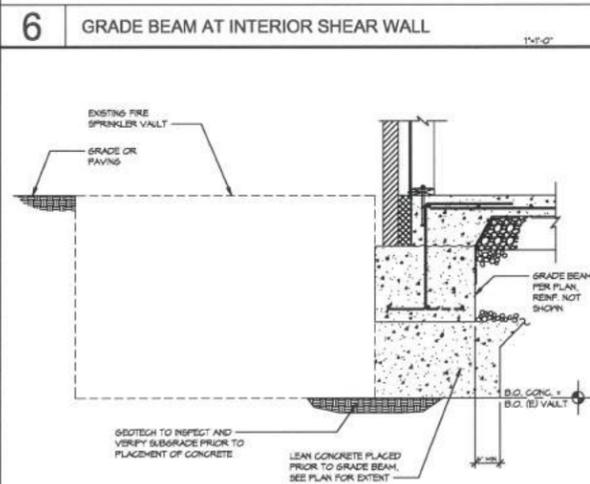
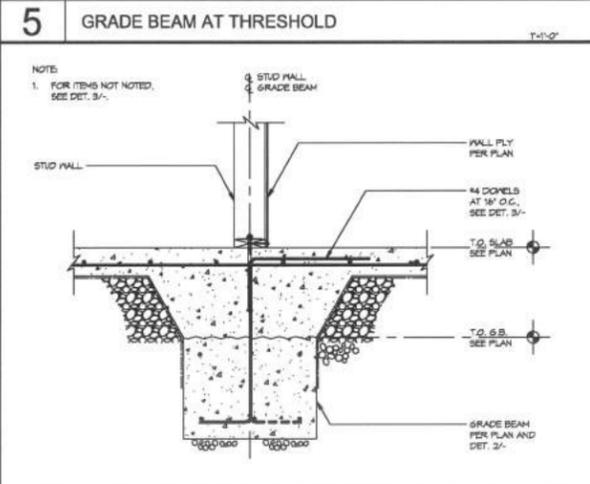
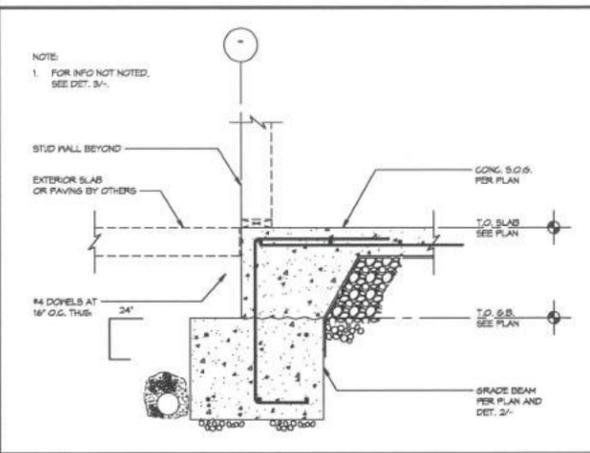
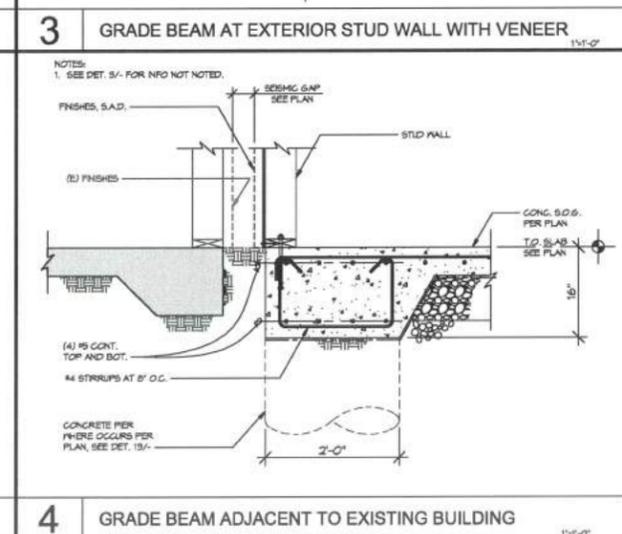
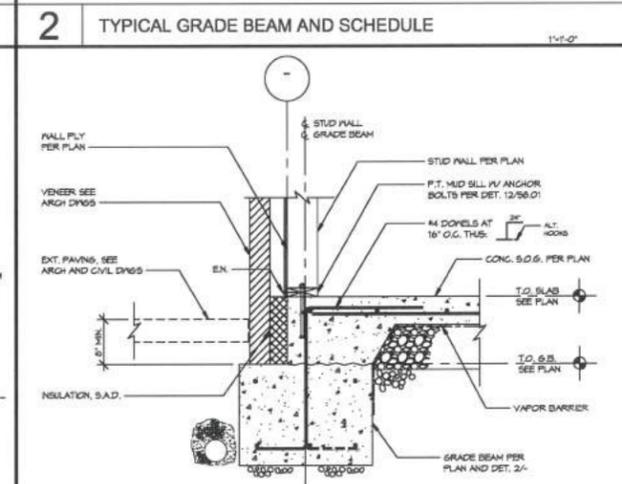
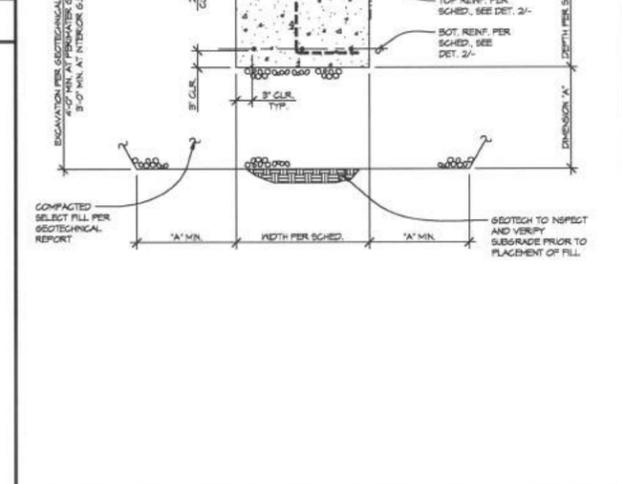
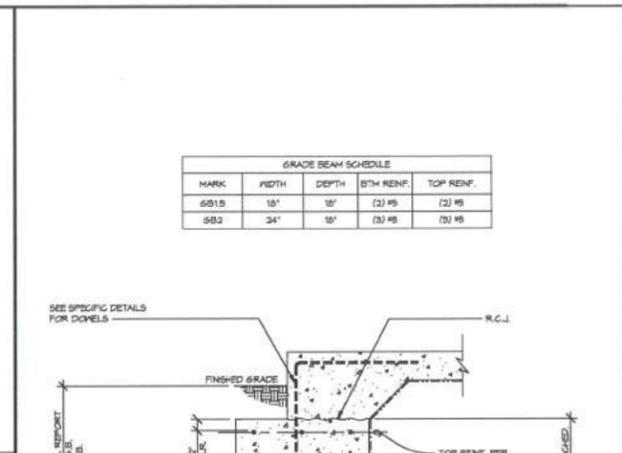
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CONCRETE DETAILS

PROJECT #	DATE
22011	09/07/2022

S5.02

HOHBACH-LEWIN P1862.1



16 TYPICAL DRILLED CONCRETE PIER

					<p>1. MASONRY VENEER ANCHORS SHALL BE 2-PIECE ADJUSTABLE ANCHORS THAT PERMIT DIFFERENTIAL MOVEMENT BETWEEN MASONRY VENEER AND STRUCTURAL BACKUP. ANCHORS ARE TO BE HOT-DIP GALVANIZED TO ASTM A153, CLASS B. USE HS-2035 WITH HS213 T-LOCK TIE ADJUSTABLE VENEER ANCHOR OR APPROVED EQUAL.</p> <p>2. MASONRY VENEER ANCHORS SHALL BE SPACED AT 16" O.C. EACH WAY, WHERE STRUCTURAL BACKUP IS STUD WALL AND STUDS ARE NOT SPACED AT 16" O.C., ALTERNATE SPACING IS 24" O.C. HORIZONTAL, 12" O.C. VERTICAL.</p> <p>3. PROVIDE ADDITIONAL MASONRY VENEER ANCHORS AROUND OPENINGS. MAXIMUM DISTANCE IS 8" ABOVE, BELOW, AND ON EACH SIDE OF OPENINGS.</p> <p>4. HORIZONTAL JOINT REINFORCEMENT SHALL BE A MINIMUM OF GALVANIZED #4 GAUGE WIRE U.O.N. PROVIDE JOINT REINFORCEMENT PER ANCHOR MANUFACTURER'S RECOMMENDATIONS WHERE IT EXCEEDS THE SPECIFIED MINIMUM.</p> <p>5. EACH ADJUSTABLE ANCHOR SHALL BE ANCHORED TO THE STRUCTURAL BACKUP WITH (1) STAINLESS STEEL SCREWS. SCREWS SHALL BE THE FOLLOWING: AT FLOOR FRAMING: (2) SCS2500055</p>
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13	9	5	1	CMU VENEER ANCHORAGE NOTES	NO SCALE
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				<p>NOTES: 1. FOR NOTES SEE DET. 1/4-.</p> <p>ADJUSTABLE VENEER ANCHOR, SEE NOTE 1. VENEER, S.A.D. FOR ANCHORS TO STRUCTURE, SEE NOTE 5. HORIZONTAL JOINT REINFORCEMENT TYP. AT ADJUSTABLE VENEER ANCHOR, SEE NOTE 4. INSULATION, S.A.D.</p>
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14	10	6	2	DETAIL AT CMU VENEER ANCHORS	1/4"=1'-0"
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				<p>NOTES: 1. FOR NOTES SEE DET. 1/4-.</p> <p>VENEER, S.A.D. HORIZONTAL JOINT REINFORCEMENT TYP. AT ADJUSTABLE VENEER ANCHOR, SEE NOTE 4. FOR ANCHORS TO STRUCTURE, SEE NOTE 5. INSULATION, S.A.D. STUD WALL PROVIDE ADDITIONAL WALL STUDS WHERE REQ'D FOR ADJUSTABLE ANCHORS</p>
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15	11	7	3	PLAN VIEW AT CMU VENEER ANCHORS	1/4"=1'-0"
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16	12	8	4		
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**LOWELL WEIGHT ROOM AND CLASSROOM BUILDINGS
LOWELL SCHOOL DISTRICT
CONSTRUCTION DOCUMENTS
65 PIONEER ST., LOWELL, OR 97452**

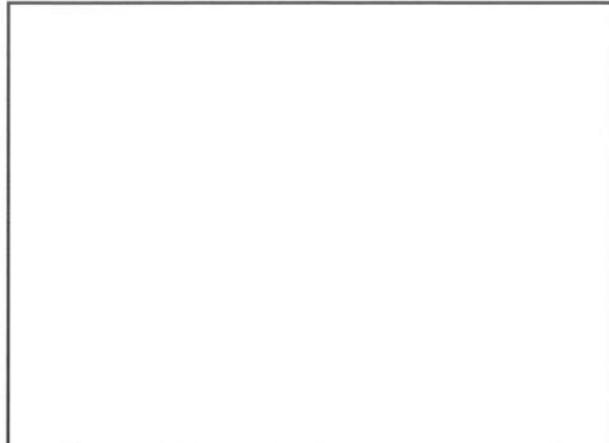
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REVISIONS		
NO	DESCRIPTION	DATE

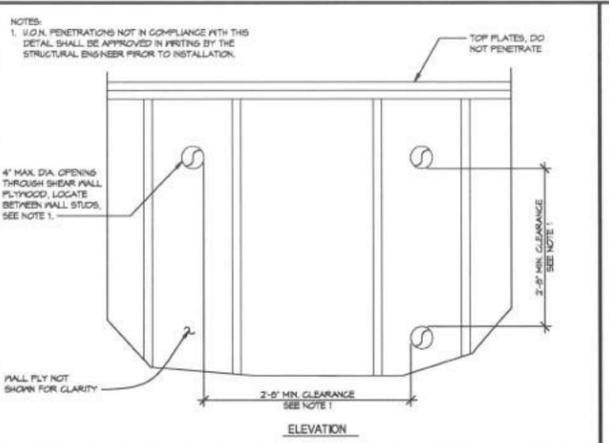
TYPICAL CMU VENEER DETAILS	
PROJECT #	DATE
22011	09/07/2022

S6.01

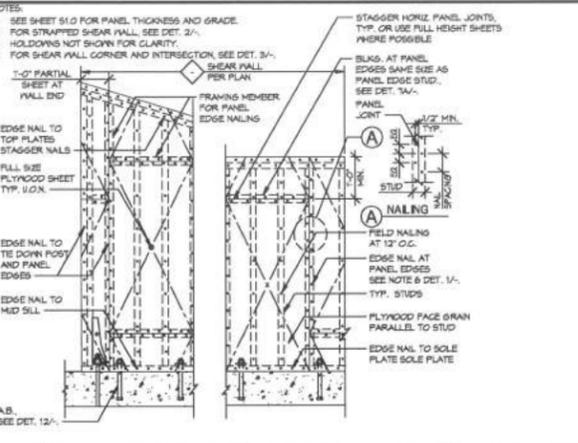
HOHBACH-LEWIN #19842



13



9 SMALL SHEAR WALL PENETRATION WALL STUDS N.T.S.



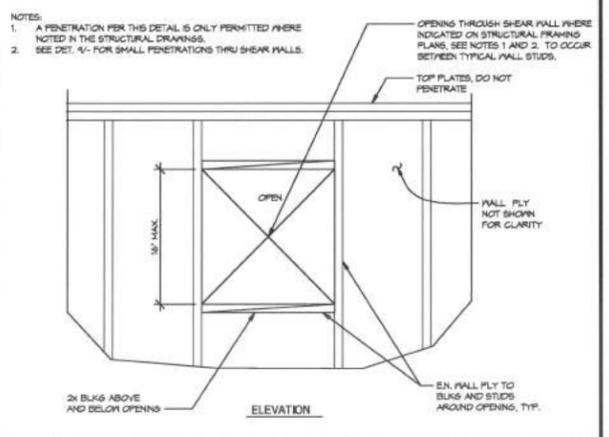
5 SHEAR WALL ELEVATION N.T.S.

1. SEE DET. 14-1 FOR SHEAR WALL SCHEDULE.
2. SEE DET. 14-2 FOR SHEAR WALL ELEVATION AND FRAMING INFORMATION.
3. FOR ANCHOR BOLT AND MID SILL DETAIL, SEE DET. 12-1.
4. ALL FRAMING MEMBERS RECEIVING EDGE NAILING FROM ADJUTING PLYWOOD PANELS SHALL BE DBL. 2x OR 3x U.O.N. SEE 14-1. A SINGLE 2x FRAMING MEMBER IS PERMITTED WHERE EDGE NAIL SPACING IS 6\"/>

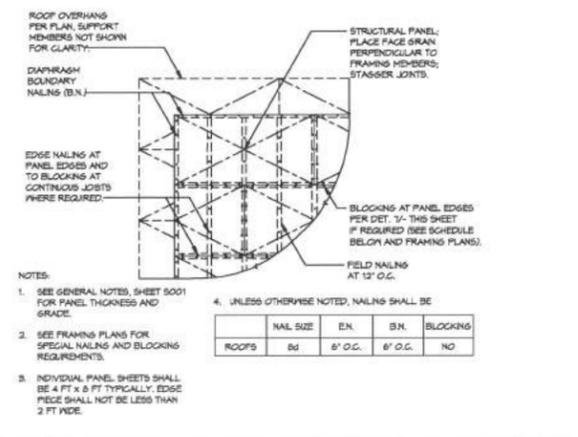
1 SHEAR WALL SCHEDULE NOTES N.T.S.



14



10 SHEAR WALL PENETRATION BETWEEN WALL STUDS N.T.S.



6 HORIZONTAL WOOD STRUCTURAL PANEL SHEATHING LAYOUT N.T.S.

1. SEE GENERAL NOTES, SHEET 5001 FOR PANEL THICKNESS AND GRADE.
2. SEE FRAMING PLANS FOR SPECIAL NAILING AND BLOCKING REQUIREMENTS.
3. INDIVIDUAL PANEL SHEETS SHALL BE 4 FT x 8 FT TYPICALLY. EDGE PIECE SHALL NOT BE LESS THAN 2 FT WIDE.
- | ROOFS | NAIL SIZE | EN. | B.N. | BLOCKING |
|-------|-----------|-------|------|----------|
| ROOFS | 8d | 6\"/> | | |

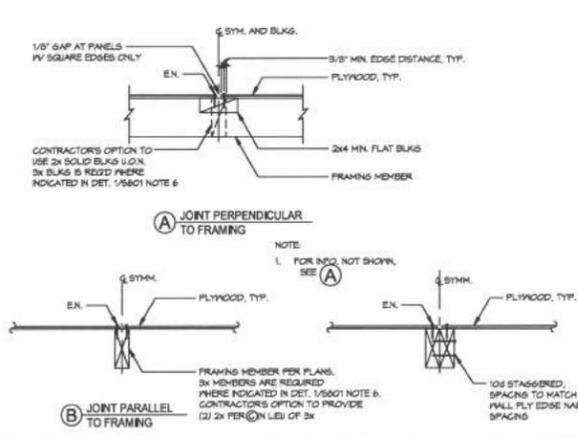
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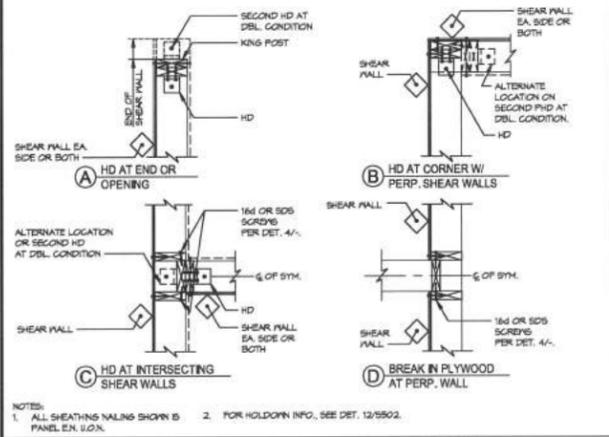
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11



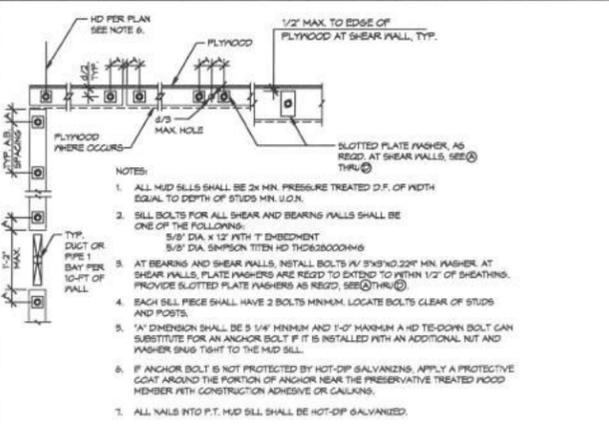
7 PLYWOOD NAILING N.T.S.



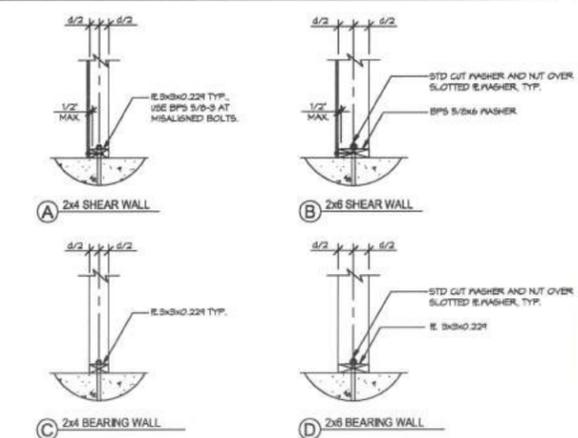
3 SHEAR TRANSFER AND/OR HD LOCATION N.T.S.



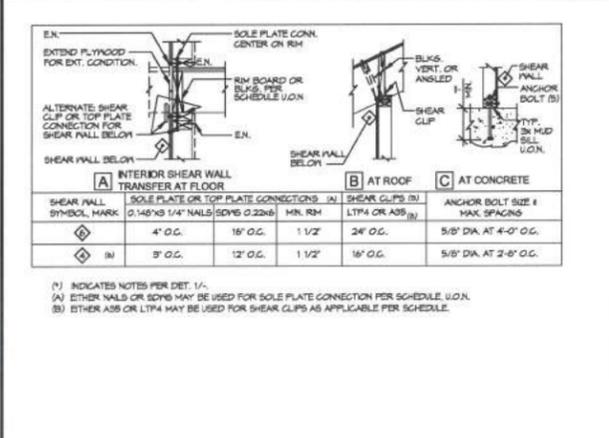
16



12 MUD SILL AND ANCHOR BOLTS REQUIREMENTS N.T.S.



4 SHEAR WALL SCHEDULE - 15/32\"/>



4 SHEAR WALL SCHEDULE - 15/32\"/>

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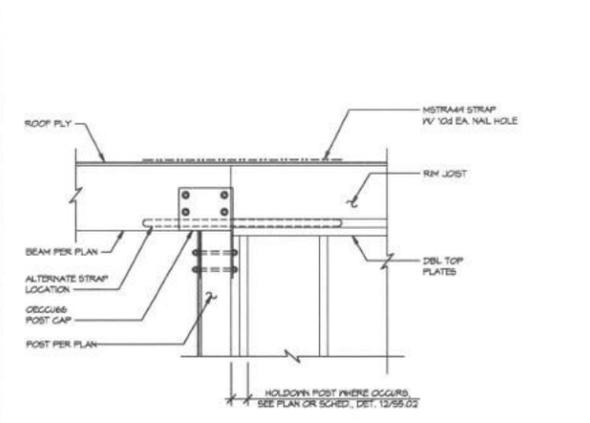
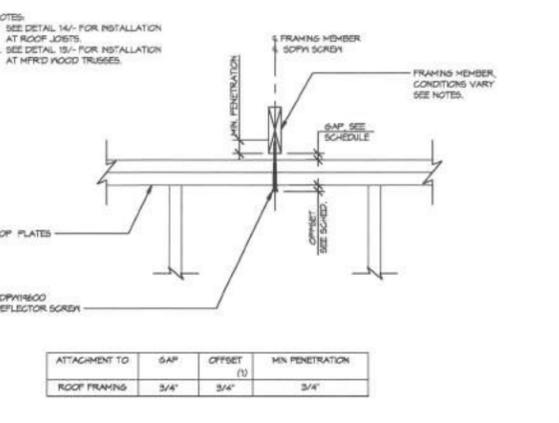
NO	DESCRIPTION	DATE

TYPICAL WOOD FRAMING DETAILS

SHEAR WALL SYMBOL MARK	SOLE PLATE OR TOP PLATE CONNECTIONS (IN)	SHEAR CLIPS (IN)	ANCHOR BOLT SIZE & MAX. SPACING
◆	4\"/>		

PROJECT # 22011 DATE 09/07/2022

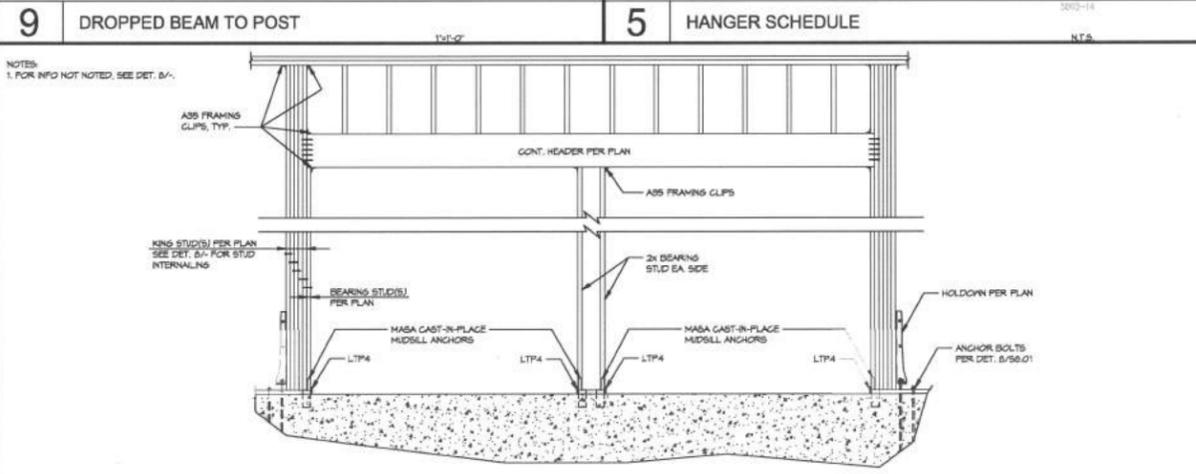
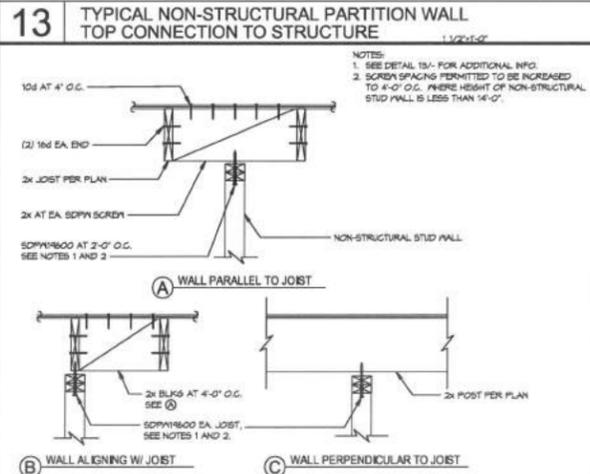
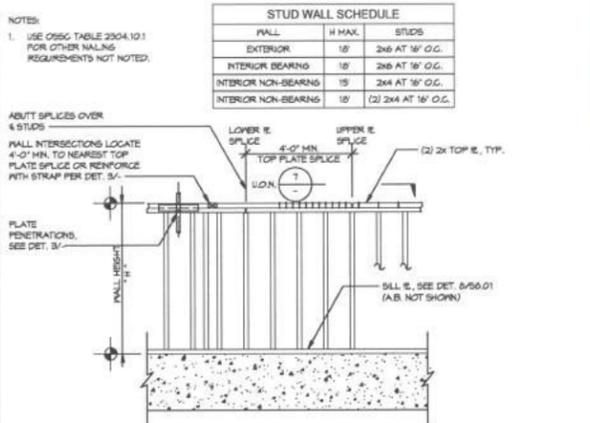
S8.01



5 HANGER SCHEDULE

MEMBER	FACE MOUNT HSR
2x6	LJ528
2x8	LJ528
2x10	U210
2x12	U210
4x6	H446 MAX
4x8	H446 MAX
4x10	H410 MAX
4x12	H412
6x6	H486 MAX
6x10	H480 MAX
6x12	H482 MAX

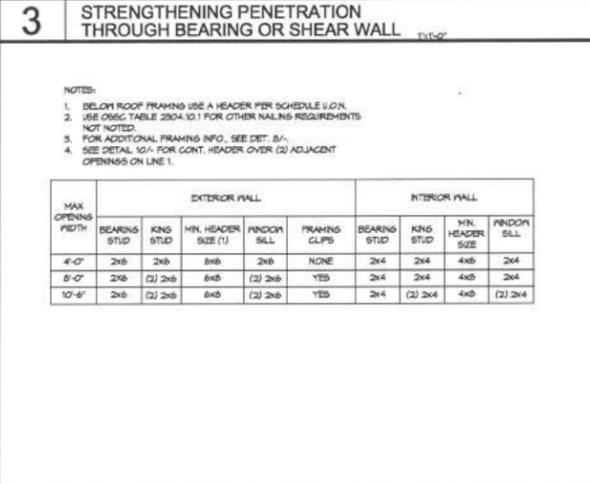
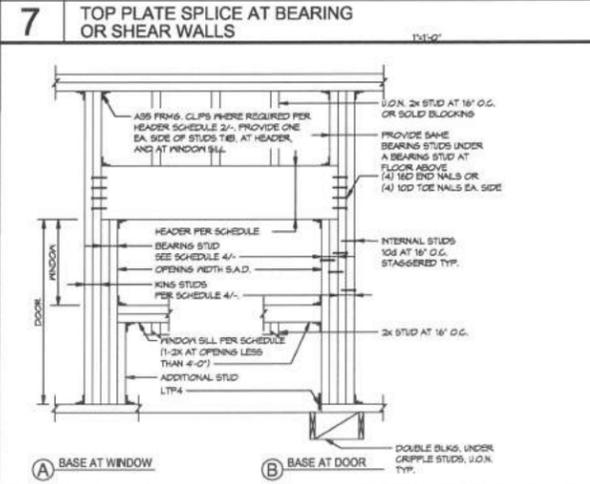
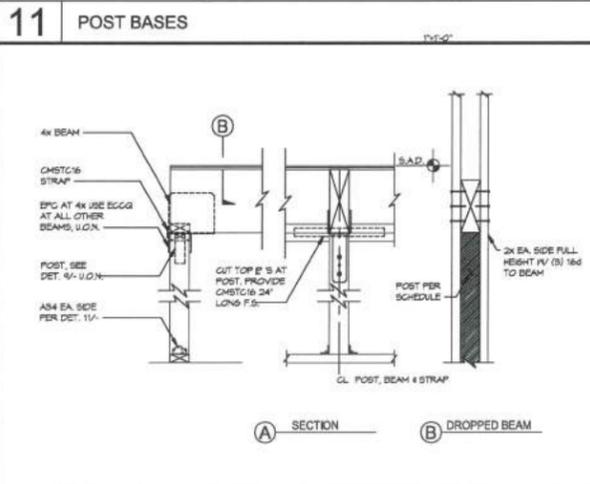
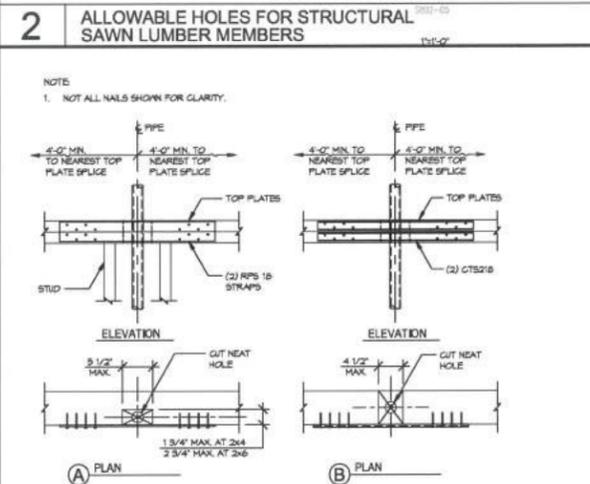
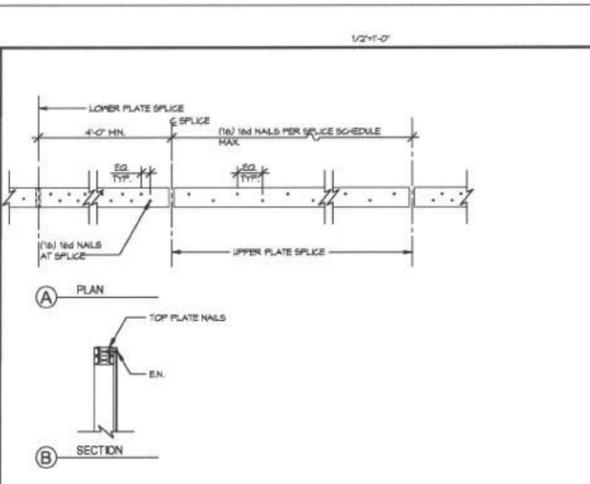
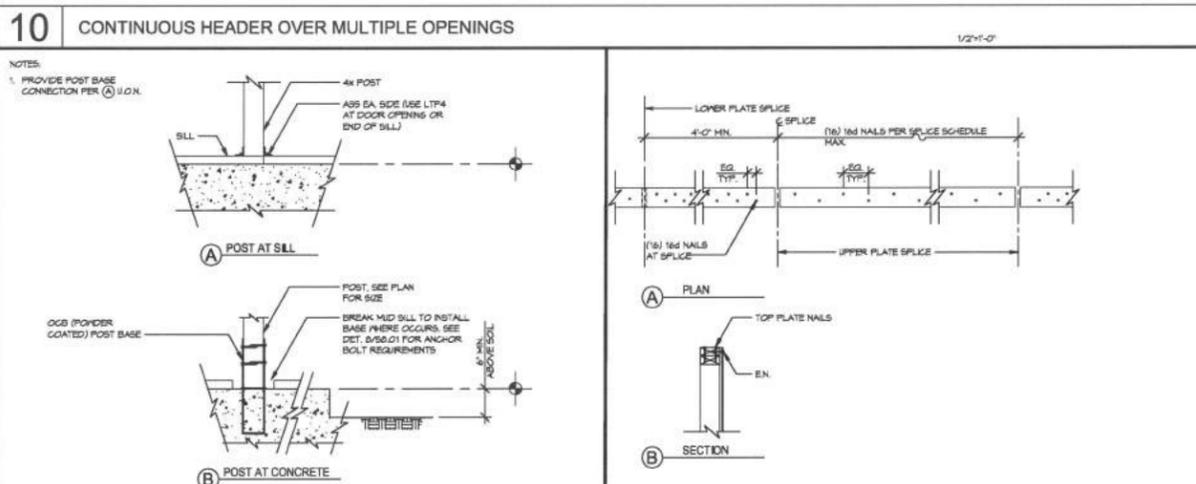
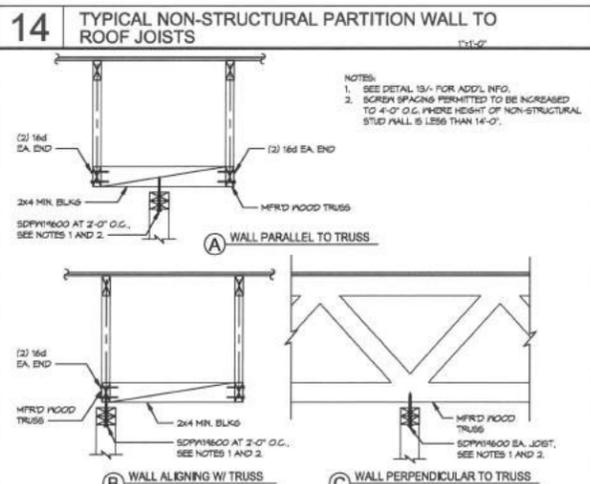
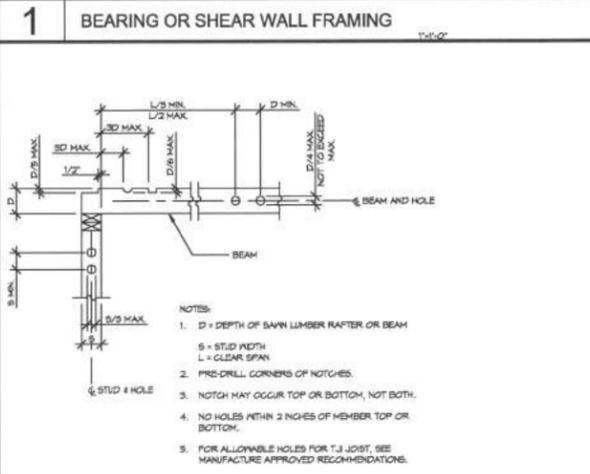
NOTES:
1. INSTALL PER MANUFACTURER'S INSTRUCTIONS. FILL ALL HOLES WITH FASTENERS SPECIFIED.
2. USE SKEWED AND/OR SLOPED HANGERS AS REQD.
3. HANGERS ARE TYP. U.O.N. IN DRAWINGS.



5 HANGER SCHEDULE

MEMBER	FACE MOUNT HSR
2x6	LJ528
2x8	LJ528
2x10	U210
2x12	U210
4x6	H446 MAX
4x8	H446 MAX
4x10	H410 MAX
4x12	H412
6x6	H486 MAX
6x10	H480 MAX
6x12	H482 MAX

NOTES:
1. INSTALL PER MANUFACTURER'S INSTRUCTIONS. FILL ALL HOLES WITH FASTENERS SPECIFIED.
2. USE SKEWED AND/OR SLOPED HANGERS AS REQD.
3. HANGERS ARE TYP. U.O.N. IN DRAWINGS.



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REGISTERED PROFESSIONAL ENGINEER
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NO	DESCRIPTION	DATE

TYPICAL WOOD FRAMING DETAILS

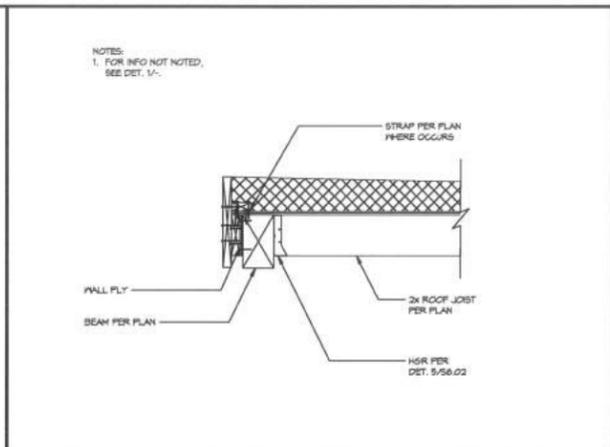
PROJECT #	DATE
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S8.02

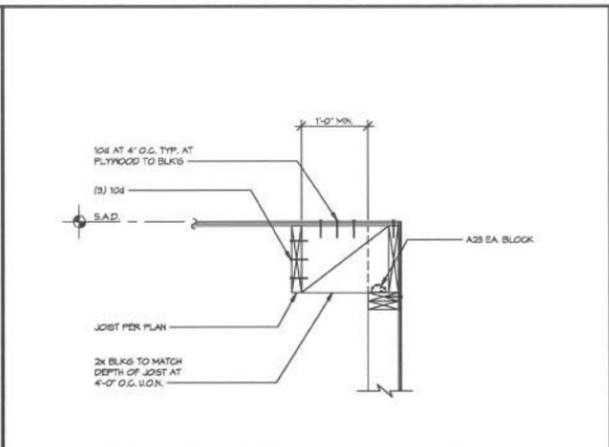
HOHBACH-LEWIN FIGURE 1



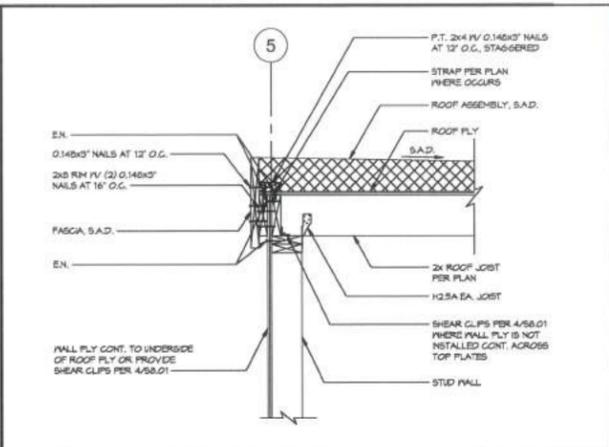
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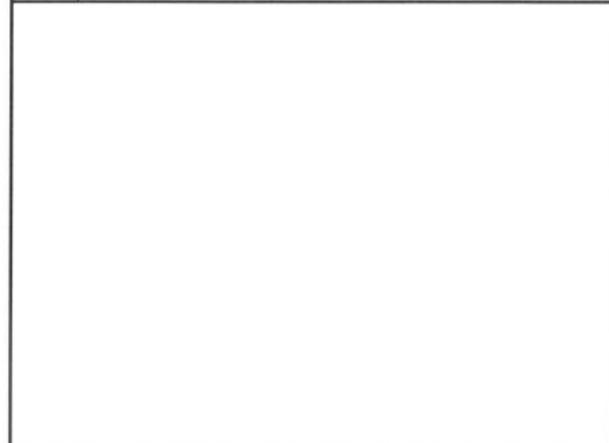
9 ROOF EAVE AT PORCH



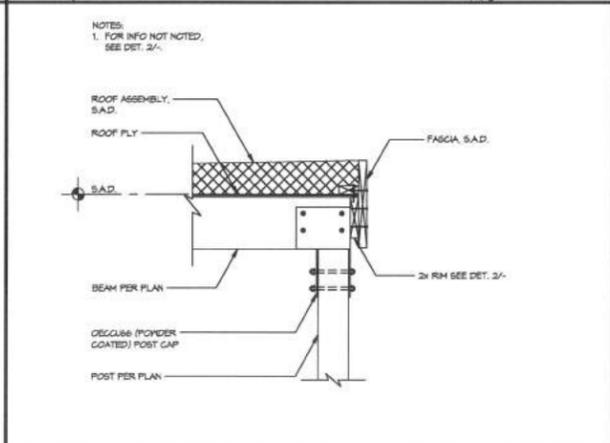
5 TYPICAL BLOCKING AT JOIST PARALLEL TO STUD WALL



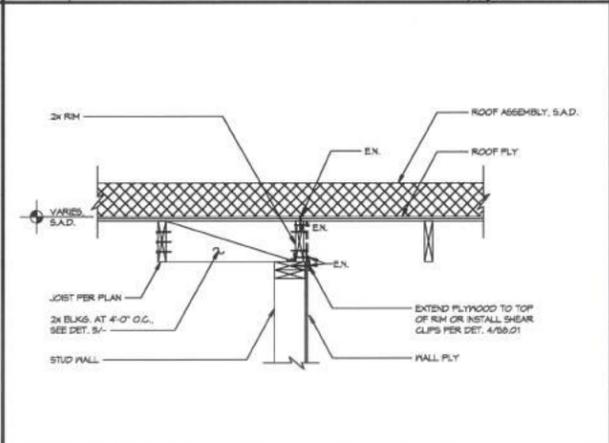
1 TYPICAL ROOF EAVE



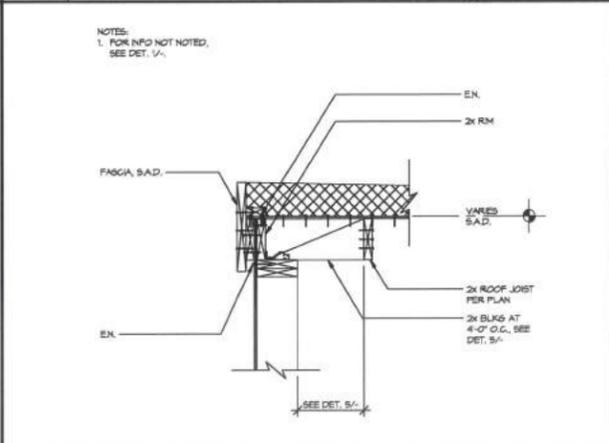
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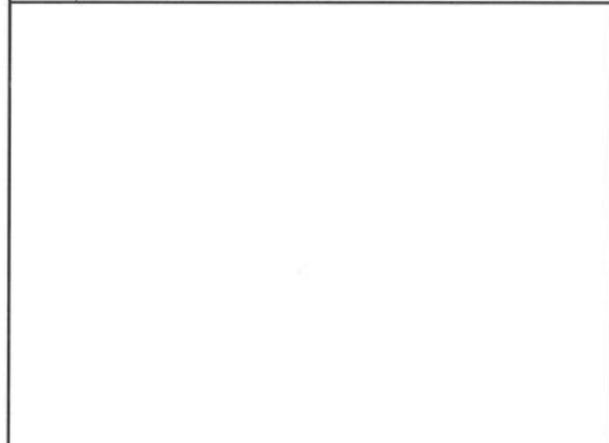
10 PORCH BEAM TO POST CONNECTION



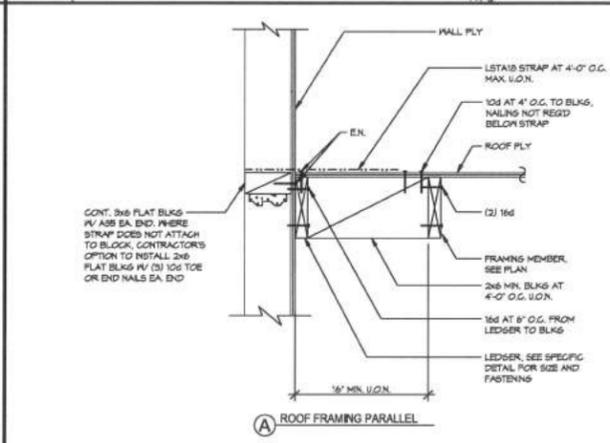
6 INTERIOR SHEAR WALL PARALLEL TO JOIST



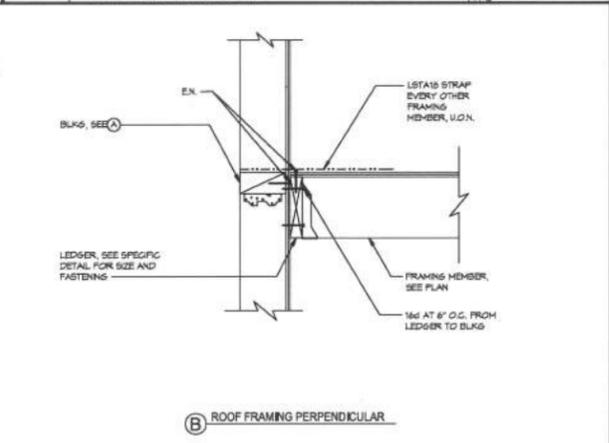
2 TYPICAL ROOF RAKE



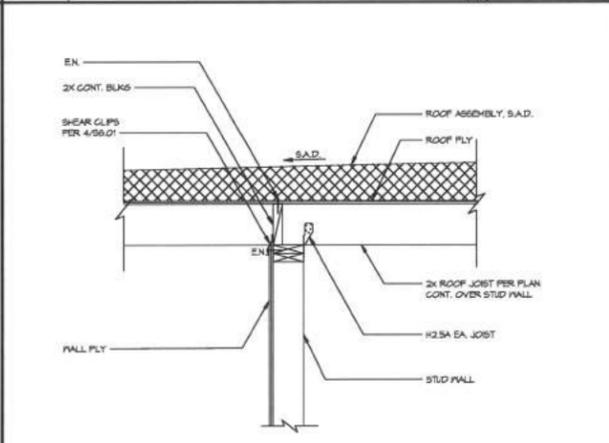
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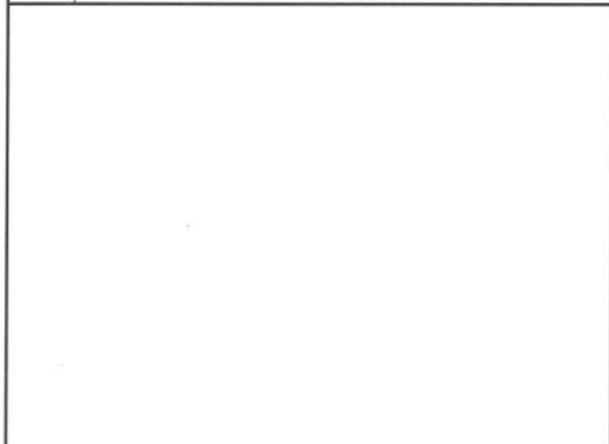
11 TYPICAL LOW ROOF FRAMING CONNECTION TO STUD WALL



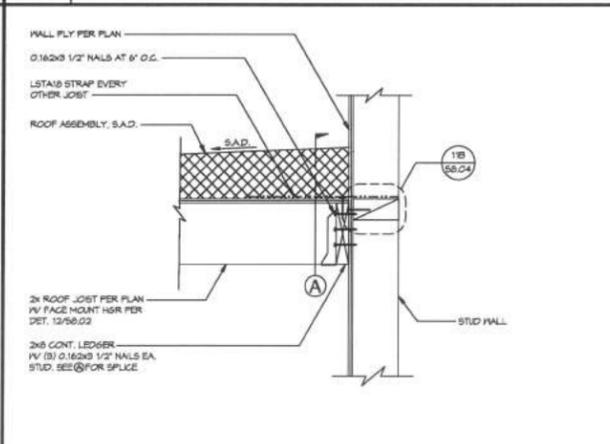
6 INTERIOR SHEAR WALL PARALLEL TO JOIST



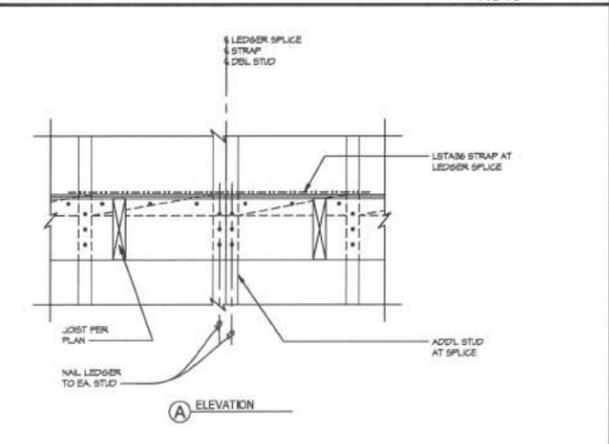
3 ROOF JOIST CONT. OVER INTERIOR SHEAR WALL



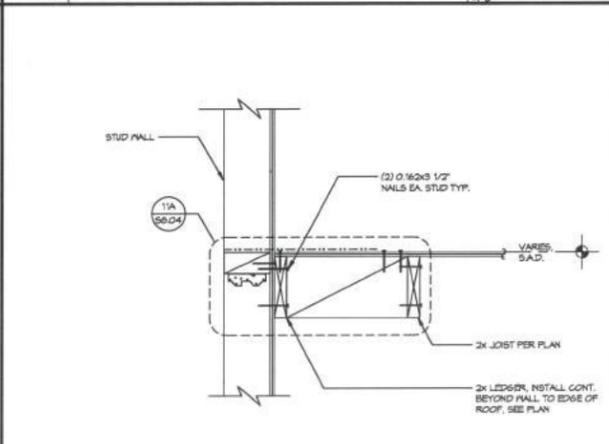
12 LOW ROOF TO STUD WALL



11 TYPICAL LOW ROOF FRAMING CONNECTION TO STUD WALL



6 INTERIOR SHEAR WALL PARALLEL TO JOIST



3 ROOF JOIST CONT. OVER INTERIOR SHEAR WALL

16

12 LOW ROOF TO STUD WALL

6 INTERIOR SHEAR WALL PARALLEL TO JOIST

4 TYPICAL LOW ROOF FRAMING CONN. TO STUD WALL

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NO	DESCRIPTION	DATE

PROJECT # 22011 DATE 09/07/2022

S8.04

HOHBACH-LEWIN #10621

INSTALLATION NOTES - ELECTRICAL

- A. CONTRACTORS SHALL FAMILIARIZE THEMSELVES WITH EXISTING CONDITIONS PRIOR TO BID.
- B. INCREASE CONDUCTOR SIZES ON 120V-1 PHASE CIRCUITS EXCEEDING 100 FEET TO CENTER OF LOAD TO ACCOUNT FOR VOLTAGE DROP.
- C. RACEWAYS AND BOXES ARE SHOWN DIAGRAMMATICALLY ONLY AND INDICATE THE GENERAL AND APPROXIMATE LOCATION. THE LAYOUT DOES NOT NECESSARILY SHOW THE TOTAL NUMBER OF RACEWAYS OR BOXES FOR THE CIRCUITS REQUIRED, NOR ARE THE LOCATIONS OF INDICATED RUNS INTENDED TO SHOW THE ACTUAL ROUTING OF THE RACEWAYS.
- D. LIGHT FIXTURES, SWITCHES, DEVICES, ETC. ARE SHOWN IN PREFERRED LOCATION. E.C. RESPONSIBLE FOR MODIFYING CONDUIT, HANGERS, CIRCUITING, ETC. TO PROVIDE A COMPLETE AND OPERATIONAL SYSTEM.
- E. PROVIDE A DEDICATED GREEN INSULATED GROUND CONDUCTOR TO ALL DEVICES. THE CONDUIT SYSTEM SHALL NOT BE USED AS THE ONLY EQUIPMENT GROUNDING METHOD.
- F. DO NOT INSTALL DEVICES BACK TO BACK ON OPPOSITE SIDES OF WALL. MAINTAIN MINIMUM OF 8" DISTANCE BETWEEN WHEREVER APPLICABLE.
- G. BALANCE THE LOAD ON PANELS AS EVENLY AS POSSIBLE DURING INSTALLATION. CIRCUIT NUMBERING SHOWN ON PLANS MAY BE ADJUSTED.
- H. PROVIDE FINAL TYPED PERMANENT PANEL DIRECTORY AT PROJECT COMPLETION. CONTRACTOR IS RESPONSIBLE FOR OPENINGS IN WALLS CREATED BY THEIR WORK. PENETRATIONS SHALL BE SEALED IN ACCORDANCE WITH THE RATINGS OF THE AFFECTED WALL. REFER TO ARCHITECTURAL CODE PLAN FOR RATED WALLS.

GENERAL NOTES - ELECTRICAL

- A. COORDINATE LOCATION/INSTALLATION OF MECHANICAL AND ELECTRICAL WORK WITH ALL OTHER TRADES. NO ASPECT OF A SYSTEM INSTALLATION OR ITS ROUGH-IN SHALL COMMENCE UNTIL PROPER AND TIMELY COORDINATION WITH ALL TRADES ASSOCIATED WITH THE INSTALLATION HAS OCCURRED. ITEMS TO BE COORDINATED SHALL INCLUDE BUT NOT BE LIMITED TO: BUILDING STRUCTURE, SHEET METAL, ALL PIPING SYSTEMS, LIGHT FIXTURES, CONDUITS, CABLE TRAYS, ETC. REFER TO ALL GENERAL, MECHANICAL, AND ELECTRICAL DRAWINGS AND SPECIFICATIONS FOR THIS PROJECT. ANY REWORK OF INSTALLED EQUIPMENT OR SYSTEMS WILL BE AT THE CONTRACTOR'S EXPENSE.
- B. NOTE THAT THE ELECTRICAL DRAWINGS ARE ONLY A PORTION OF THE COMPLETE SET OF PLANS CONTRACT DOCUMENTS. THE COMPLETE SET CONTRACT DOCUMENTS SHALL BE USED TO DEFINE THE ELECTRICAL SCOPE OF WORK. THIS SHALL INCLUDE, BUT NOT BE LIMITED TO, USING THE ARCHITECTURAL PLANS FOR DIMENSIONS AND DETAILS, EQUIPMENT PLANS FOR ROUGH-IN REQUIREMENTS, AND THE MECHANICAL PLANS FOR EQUIPMENT SIZES AND LOCATIONS.

CODE NOTES - ELECTRICAL

- A. THE ELECTRICAL INSTALLATION SHALL BE IN ACCORDANCE WITH ALL LOCAL, STATE, AND NATIONAL CODES.
- B. THE CURRENT ADOPTED EDITION OF THE ELECTRICAL CODE SHALL BE THE STANDARD FOR THE ELECTRICAL INSTALLATION. VERIFY WITH LOCAL OFFICIALS WHEN PERMITS ARE OBTAINED. NOTIFY DESIGN TEAM OF ANY DISCREPANCIES BETWEEN THE PROJECT MANUAL OR DRAWINGS AND THE GOVERNING CODE.
- C. INSTALLATION SHALL FOLLOW ALL REQUIREMENTS OF THE ADAAG - AMERICANS WITH DISABILITIES ACT.
- D. REFER TO PROJECT MANUAL AND PROJECT CODE REVIEW SHEET FOR LIST OF APPLICABLE CODES.
- E.

BUILDING EQUIPMENT COORDINATION NOTES - ELECTRICAL

- A. REFER TO HVAC, PLUMBING, AND FIRE PROTECTION EQUIPMENT CONNECTION SCHEDULE FOR COORDINATION DETAILS BETWEEN MECHANICAL AND ELECTRICAL SYSTEMS.
- B. THE ELECTRICAL SYSTEMS SHALL BE PROVIDED AND INSTALLED UNDER THIS CONTRACT TO MEET THE REQUIREMENTS OF THE SPECIFIED MECHANICAL SYSTEMS. THE ENTIRE PROJECT DOCUMENTS AND MANUALS SHALL BE REFERENCED AS A COMPLETE PROJECT. ELECTRICAL CONTRACTOR SHALL REFER TO ALL SCHEDULES, DETAILS, AND NOTES AND PROVIDE ELECTRICAL EQUIPMENT, WIRING, AND INSTALLATION REQUIRED UNDER THIS PROJECT.
- C. PROVIDE ELECTRICAL CONNECTIONS AND ACCESSORIES INCLUDING STARTERS, DISCONNECTS, CONTROL, WIRING, ETC. AS REQUIRED FOR THE BUILDING MECHANICAL EQUIPMENT. INFORMATION HEREIN AND ON THE DRAWINGS IS FOR GENERAL DESCRIPTION AND ESTIMATING PURPOSES ONLY. VERIFY VOLTAGE, AMPERAGE, PHASE, INRUSH, ETC. FOR EACH ITEM OF EQUIPMENT BEFORE PROCEEDING WITH WIRING FOR IT. WIRING DETAILS SHALL BE IN ACCORDANCE WITH INSTRUCTIONS TO BE FURNISHED BY THE SUPPLIERS OF THE EQUIPMENT AS NECESSARY TO PROVIDE PROPER OPERATION OF THE EQUIPMENT.
- D. REVIEW MECHANICAL EQUIPMENT SHOP DRAWINGS FOR COMPLIANCE AND COORDINATION WITH ELECTRICAL CONNECTIONS. NOTIFY ENGINEER IF CHANGES TO ELECTRICAL CONNECTIONS, WIRING, AND BREAKER REQUIREMENTS ARE NECESSARY TO ACCOMMODATE EQUIPMENT BEING SUPPLIED.
- E. NO ELECTRICAL DISTRIBUTION EQUIPMENT SHALL BE RELEASED UNTIL ALL MECHANICAL EQUIPMENT REQUIRING ELECTRICAL INFRASTRUCTURE HAS BEEN SUBMITTED AND APPROVED. ADJUSTMENTS TO BREAKER SIZES AND SIMILAR CHANGES MUST BE MADE TO ELECTRICAL EQUIPMENT PRIOR TO RELEASE, FABRICATION, AND SHIPPING OF ELECTRICAL EQUIPMENT. COORDINATE SCHEDULING OF SHOP DRAWINGS WITH ALL TRADES SUCH AS NOT TO CAUSE ANY DELAYS TO PROJECT.
- F. PROVIDE DISCONNECTS RATED FOR EQUIPMENT AS REQUIRED AND AS INDICATED WITHIN EQUIPMENT CONNECTION SCHEDULE. MOUNTING OF DISCONNECTS SHOULD BE COORDINATED TO ALLOW FOR REMOVAL OF MECHANICAL EQUIPMENT WITHOUT NEEDING TO REMOVE THE DISCONNECT AND MINIMIZE WIRING WORK REQUIRED.
- G. ALL MECHANICAL EQUIPMENT DISCONNECTS SHALL BE HEAVY DUTY TYPE AND RATED FOR THE ENVIRONMENT THEY SERVE. EXTERIOR DISCONNECTS SHALL BE RATED A MINIMUM OF 30" OR AS INDICATED.
- H. VERIFY LOCATION OF ALL MECHANICAL EQUIPMENT WITH MECHANICAL DRAWINGS AND MECHANICAL CONTRACTOR. ADJUST ELECTRICAL INSTALLATION AS REQUIRED.
- I.

DEVICE INSTALLATION AND MATERIALS - ELECTRICAL

- A. NORMAL POWER ELECTRICAL DEVICES SHALL BE GRAY UNLESS OTHERWISE NOTED.
- B. DEVICE COVER PLATE MATERIAL SHALL BE STAINLESS STEEL.
- C. GFCI RECEPTACLES SHALL BE PROVIDED AT ALL LOCATIONS AS REQUIRED BY THE NEC.
- D. WALL MOUNTED RECEPTACLES SHALL BE MOUNTED AT +18" ABOVE FINISHED FLOOR UNLESS OTHERWISE NOTED.
- E. WALL MOUNTED LIGHT SWITCHES SHALL BE MOUNTED AT +42" ABOVE FINISHED FLOOR UNLESS OTHERWISE NOTED.
- F. ABOVE COUNTERTOP RECEPTACLES NOTED SHOULD BE MOUNTED AT +8" ABOVE COUNTERTOP OR AS OTHERWISE INDICATED. ALL RECEPTACLES AND SWITCHES AT A COMMON COUNTERTOP SHOULD BE MOUNTED AT THE SAME HEIGHT OR AS OTHERWISE INDICATED.

INSTALLATION NOTES - LIGHTING

- 1. UNLESS NOTED OTHERWISE, CONNECT ALL EMERGENCY BATTERY FIXTURES WITH AN UN-SWITCHED LEG OF THE LIGHTING CIRCUIT THAT SERVES THE SPACE THE EMERGENCY FIXTURE IS LOCATED WITHIN. NORMAL SWITCHING SCHEME SHOULD BE MAINTAINED UNDER NORMAL OPERATING OF EMERGENCY FIXTURES DESIGNATED. WIRE PER EMERGENCY FIXTURE OR TRANSFER DEVICE INSTRUCTIONS.
- 2. VERIFY CEILING TYPE (E, GRID, OVP) WITH ARCHITECTURAL REFLECTED CEILING PLANS PRIOR TO RELEASE OF LIGHTING FIXTURE EQUIPMENT PACKAGE. ADJUST FIXTURE TYPE, CONSTRUCTION, FLANGE, OR OTHER COORDINATION DETAILS AS REQUIRED FOR CEILING TYPE.
- 3. OCCUPANCY SENSORS SHOWN ON PLANS ARE SUGGESTED LOCATIONS ONLY AND MUST BE VERIFIED WITH SPECIFIC MANUFACTURER GUIDELINES AND INSTALLATION RECOMMENDATIONS AS NOTED IN LIGHTING CONTROL SHOP DRAWINGS. ADJUST LOCATIONS AS REQUIRED TO MEET MANUFACTURER GUIDELINES.
- 4. LIGHTING CONTROL SYSTEMS SHALL BE PROVIDED AS A COMPLETE OPERATING SYSTEM AND INCLUDE MATERIAL AND INSTALLATION FOR ALL POWER PACKS, ACCESSORIES, CONTROLLERS, AND WIRING REQUIRED FOR THE SYSTEM.

GENERAL SYMBOLS

- ① JUNCTION BOX, CEILING OR FLOOR MOUNTED.
- ② JUNCTION BOX, WALL MOUNTED, ELEVATION AS NOTED.
- ~ CIRCUIT HOMERUN, CONCEALED CONDUIT OR CABLE
- KEYNOTE
- XXX/E EQUIPMENT IDENTIFICATION TAG. REFER TO EQUIPMENT CONNECTION SCHEDULE
- 1/2417 DETAIL DRAWING REFERENCE TAG, SIM-SIMILAR, TYP-TYPICAL, OPP-OPPPOSITE SHEET REFERENCE

ELECTRICAL ABBREVIATIONS

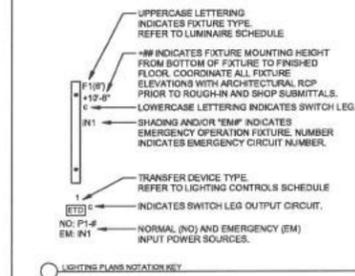
A	DEVICE MOUNTED +8" ABOVE COUNTER TOP (VERIFY LOCATION)	NC	NOT IN CONTRACT
AFF	ABOVE FINISHED FLOOR	NM	NONMETALLIC
ATS	AUTOMATIC TRANSFER SWITCH	NTS	NOT TO SCALE
C	CEILING	OC	OWNER FURNISHED
CB	CIRCUIT BREAKER	OCFI	OWNER FURNISHED CONTRACTOR INSTALLED
CT	CURRENT TRANSFORMER	OFI	OWNER INSTALLED
E	EXISTING ITEM TO REMAIN	OR	EXISTING ITEM TO BE REMOVED
EC	ELECTRICAL CONTRACTOR	RR	EXISTING ITEM TO BE REMOVED AND RELOCATED
EM	EMERGENCY LIGHT FIXTURE	RN	EXISTING ITEM TO BE REMOVED AND REPLACED WITH NEW
ER	NEW LOCATION OF EXISTING ITEM	SCCR	SHORT CIRCUIT CURRENT RATING
F	ROUGH IN FOR FUTURE DEVICE	SPD	TAMPER PROOF DEVICE
FAMP	FIRE ALARM ANNUNCIATOR PANEL	T	TEMPERATURE CONTROL, CONTRACTOR
FACP	FIRE ALARM CONTROL PANEL	TV	TELEVISION
FSD	FIRE SMOKE DAMPER	TYP	TYPICAL
G	GROUND FAULT CIRCUIT INTERRUPTER	UPS	UNINTERRUPTIBLE POWER SUPPLY
GND	GROUND	V	VOLTS
KVA	KILO-VOLT-AMPERES	VA	VOLT-AMPERES
KW	KILOWATTS	WG	WIREGUARD COVER
MC	MECHANICAL CONTRACTOR	WR	WEATHER RESISTANT DEVICE
MCS	MAIN CIRCUIT BREAKER	+24"	INDICATES MOUNTING HEIGHT CENTER LINE OF DEVICE TO FINISHED FLOOR
MCP	MAIN DISTRIBUTION PANEL		
MLO	MAIN LUGS ONLY		
N	NEW DEVICE IN EXISTING LOCATION		

POWER SYMBOLS

- SINGLE RECEPTACLE, WALL MOUNT +18", OR AS NOTED
- DUPLEX RECEPTACLE, CEILING MOUNT
- DUPLEX RECEPTACLE, TAMPER-RESISTANT, WALL MOUNT +18", OR AS NOTED
- DUPLEX GFCI RECEPTACLE, TAMPER-RESISTANT, WALL MOUNT +18", OR AS NOTED
- DUPLEX RECEPTACLE, MOUNTED WITHIN WATER COOLER HOUSING, VERIFY HEIGHT, CONNECT TO GFCI, CIRCUIT BREAKER OR REMOTE WALL DEVICE
- DUPLEX GFCI WEATHER RESISTANT RECEPTACLE WITH WEATHER-PROOF IN-USE COVER, TAMPER RESISTANT, WALL MOUNT +24", OR AS NOTED
- QUADRAPLEX RECEPTACLE, TAMPER-RESISTANT, WALL MOUNT +18", OR AS NOTED
- QUADRAPLEX GFCI RECEPTACLE, TAMPER-RESISTANT, WALL MOUNT +18", OR AS NOTED
- DUPLEX RECEPTACLE IN FLOORBOX, TAMPER-RESISTANT. REFER TO SCHEDULE.
- QUADRUPLEX RECEPTACLE IN FLOORBOX, TAMPER-RESISTANT. REFER TO SCHEDULE.
- FLOOR BOX, COMBINATION POWER AND DATA ENCLOSURE. QUANTITY OF CABLES AS NOTED. DEVICES AS NOTED. REFER TO SCHEDULE.
- SPECIAL RECEPTACLE, WALL MOUNT +18", OR AS NOTED. REFER TO ELECTRICAL EQUIPMENT CONNECTION SCHEDULE FOR RECEPTACLE TYPE
- EQUIPMENT CONNECTION, REFER TO ELECTRICAL EQUIPMENT CONNECTION SCHEDULE FOR CONNECTION TYPE
- EQUIPMENT CONNECTION, WALL MOUNT +18", OR AS NOTED. REFER TO ELECTRICAL EQUIPMENT CONNECTION SCHEDULE FOR CONNECTION TYPE
- MOTORIZED DOOR OPERATOR CONTROL, STATION, WALL MOUNT, +48", OR AS NOTED
- DOOR PUSH BUTTON (WEATHERPROOF), +48" OR AS NOTED
- SAFETY DISCONNECT SWITCH
- PANELBOARD - SURFACE MOUNTED
- PANELBOARD - RECESSED IN WALL
- DISTRIBUTION PANEL/SWITCHBOARD - SURFACE MOUNTED AS NOTED.

LIGHTING SYMBOLS

- RECESSED LIGHT FIXTURE, LETTER INDICATES SWITCH LEG (TYPICAL), SHADING INDICATES EMERGENCY LIGHT (TYPICAL)
- ROUND LIGHT FIXTURE - SURFACE MOUNTED
- PENDANT MOUNTED LIGHT FIXTURE
- ROUND APERTURE RECESSED DOWNLIGHT FIXTURE, ARROW INDICATES WALL WASH
- SURFACE MOUNTED STRIP FIXTURE
- LINEAR PENDANT MOUNTED FIXTURE
- WALL MOUNTED STRIP LIGHT FIXTURE
- EMERGENCY LIGHT FIXTURE, WALL MOUNT, +96" OR AS NOTED
- EXIT SIGN, WALL MOUNT +96", SHADED AREAS INDICATE NUMBER OF FACES, ARROWS INDICATE SIGN ARROWS
- EXIT SIGN, CEILING MOUNT, SHADED AREAS INDICATE NUMBER OF FACES, ARROWS INDICATE SIGN ARROWS
- EXTERIOR LIGHT FIXTURE, WALL MOUNT +10", OR AS NOTED
- EXTERIOR FLOOD LIGHT FIXTURE, REFER TO LIGHT FIXTURE SCHEDULE
- SINGLE POLE SWITCH, WALL MOUNT +48", OR AS NOTED, LETTER INDICATES SWITCH LEG
- THREE WAY SWITCH, WALL MOUNT +48", OR AS NOTED, LETTER INDICATES SWITCH LEG
- LIGHTING CONTROLS LOW VOLTAGE SWITCH, WALL MOUNT +48", OR AS NOTED, LETTER INDICATES SWITCH LEG, REFER TO LIGHTING CONTROLS SCHEDULE
- OCCUPANCY SENSOR, WALL MOUNT +48" OR AS NOTED, NUMBER INDICATES TYPE, LETTER INDICATES SWITCH LEG, REFER TO LIGHTING CONTROLS SCHEDULE
- OCCUPANCY SENSOR, CEILING MOUNT, NUMBER INDICATES TYPE, LETTER INDICATES SWITCH LEG, REFER TO LIGHTING CONTROLS SCHEDULE
- DAYLIGHTING SENSOR, CEILING MOUNT, NUMBER INDICATES TYPE, LETTER INDICATES SWITCH LEG, REFER TO LIGHTING CONTROLS SCHEDULE
- EMERGENCY TRANSFER DEVICE
- PHOTOCELL



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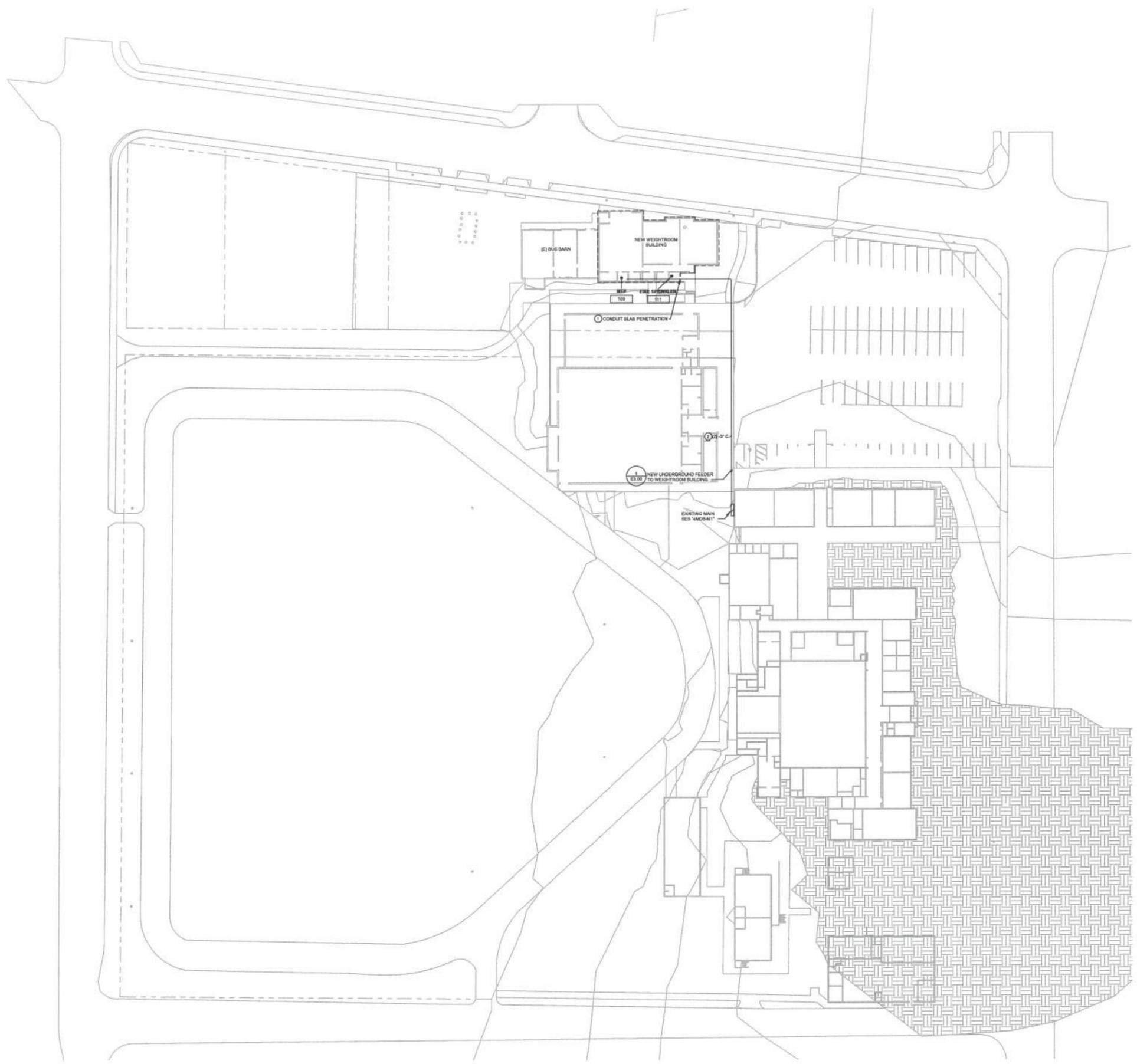
REVISIONS

NO	DESCRIPTION	DATE
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ELECTRICAL GENERAL NOTES & SYMBOLS

PROJECT #	DATE
22011	08.22.2022

E0.00



POWER GENERAL NOTES

A. COORDINATE LOCATION/INSTALLATION OF MECHANICAL AND ELECTRICAL WORK WITH ALL OTHER TRADES. NO ASPECT OF A SYSTEM INSTALLATION OR ITS ROUGH-IN SHALL COMMENCE UNTIL PROPER AND TIMELY COORDINATION WITH ALL TRADES ASSOCIATED WITH THE INSTALLATION HAS TRANSPIRED. ITEMS TO BE COORDINATED SHALL INCLUDE BUT NOT BE LIMITED TO: BUILDING STRUCTURE, SHEET METAL, PIPING SYSTEMS, LIGHT FIXTURES, CONDUITS, CABLE TRAYS, ETC. REFER TO ALL GENERAL, MECHANICAL, AND ELECTRICAL DRAWINGS AND SPECIFICATIONS FOR THIS PROJECT.

B. COORDINATE ELECTRICAL REQUIREMENTS FOR MECHANICAL UNITS WITH M.C. AND FINAL MECHANICAL SHOP DRAWINGS.

C. PROVIDE PENETRATIONS REQUIRED FOR ROUTING RACEWAYS THROUGH THE BUILDING. COORDINATE FIRE RATED WALL PENETRATIONS AND PROVIDE CONDUIT SLEEVES AND FIRE STOPPING TO MAINTAIN RATING.

D. CONDUIT PATHWAYS ROUTED UNDER EXISTING PAVING SHALL BE DIRECTIONALLY BORED TO MINIMIZE DISTURBANCE TO EXISTING SURFACES.

KEYNOTES

1. NOTE THAT ALL CONDUIT PENETRATIONS AT BUILDING EXTERIOR/SLAB MUST BE LOCATED NOT LESS THAN 4" BELOW BOTTOM OF FOOTING. REFER TO STRUCTURAL DETAIL FOR DEPTH AND FURTHER INFORMATION.

2. CONTRACTOR SHALL PROVIDE DESIGN/BUILD PACKAGE TO BORE CONDUIT BETWEEN MAIN SWITCHBOARD AND 400A/401 AND WEIGHT ROOM DISTRIBUTION PANEL. 40" W/1". CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DESIGN, PRODUCTS, AND CONSTRUCTION TO INSTALLED BORED UTILITY, INCLUDING CASINGS, AS REQUIRED, AND CONNECTIONS TO EXISTING AND NEW SYSTEMS BEYOND THE BORING LIMITS AS INDICATED ON THE DRAWING. CONTRACTOR SHALL SUBMIT DESIGN/BUILD PACKAGE FOR REVIEW BY DESIGN TEAM AND AS A DEFERRED SUBMITTAL FOR PERMITTING. WHERE EXCAVATIONS ARE REQUIRED, CONTRACTOR SHALL RESTORE, REPAIR, AND RETURN EXCAVATED AREAS AND FINISHED SURFACES TO MATCH EXISTING CONDITION. WHERE EXISTING SIDEWALKS ARE REMOVED, SAWCUT AND REPLACE FULL PANELS TO MATCH EXISTING CONDITION.

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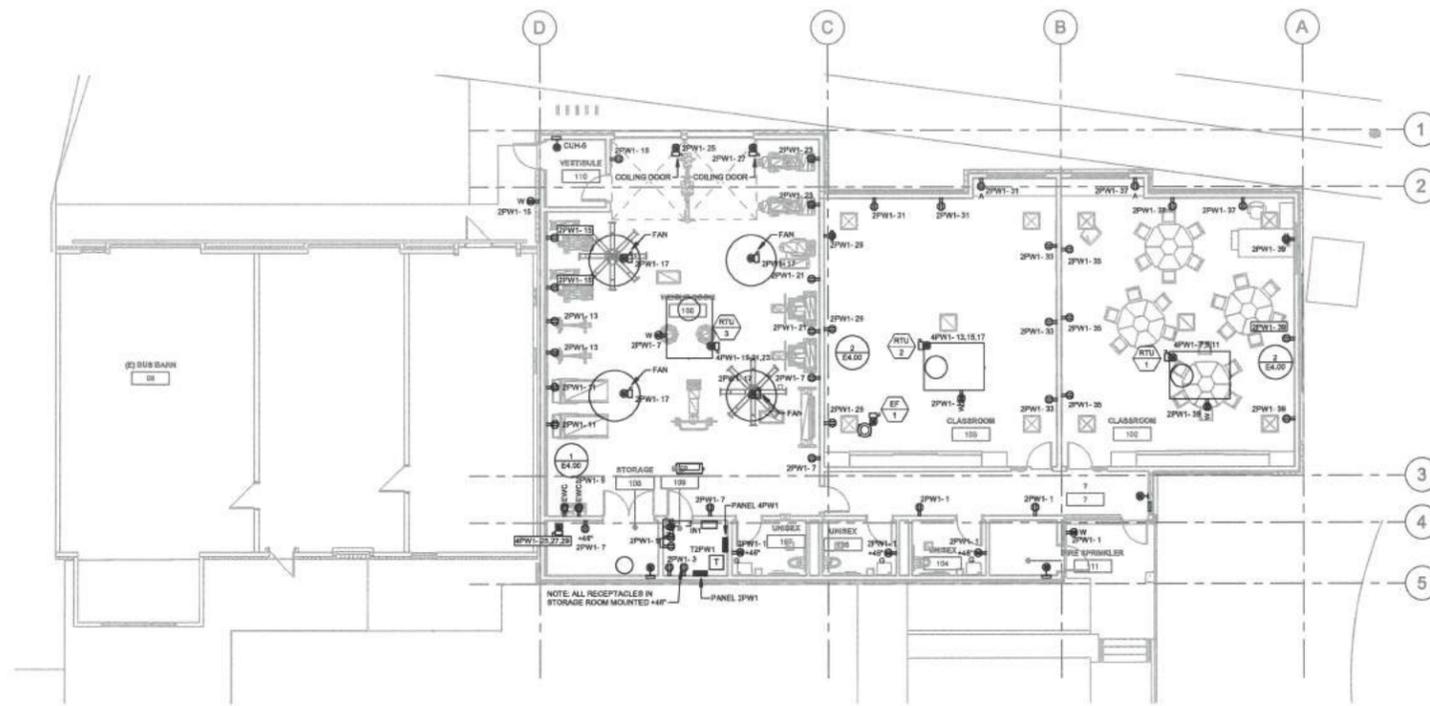
NO	DESCRIPTION	DATE

ELECTRICAL SITE PLAN

PROJECT #	DATE
22011	08.22.2022

E0.01





1 ELECTRICAL FLOOR PLAN - POWER
1/8" = 1'-0"



POWER GENERAL NOTES

- A. COORDINATE LOCATION/INSTALLATION OF MECHANICAL AND ELECTRICAL WORK WITH ALL OTHER TRADES. NO ASPECT OF A SYSTEM INSTALLATION OR ITS FINISH SHALL COMMENCE UNTIL PROPER AND TIMELY COORDINATION WITH ALL TRADES ASSOCIATED WITH THE INSTALLATION HAS TRANSPIRED. ITEMS TO BE COORDINATED SHALL INCLUDE BUT NOT BE LIMITED TO: BUILDING STRUCTURE, SHEET METAL, PIPING SYSTEMS, LIGHT FIXTURES, CONDUITS, CABLE TRAYS, ETC. REFER TO ALL GENERAL MECHANICAL AND ELECTRICAL DRAWINGS AND SPECIFICATIONS FOR THIS PROJECT.
- B. COORDINATE ELECTRICAL REQUIREMENTS FOR MECHANICAL UNITS WITH M.C. AND FINAL MECHANICAL SHOP DRAWINGS.
- C. PROVIDE PENETRATIONS REQUIRED FOR ROUTING RACEWAYS THROUGH THE BUILDING. COORDINATE FIRE RATED WALL PENETRATIONS AND PROVIDE CONDUIT SLEEVES AND FIRE STOPPING TO MAINTAIN RATING.
- D. CONDUIT PATHWAYS ROUTED UNDER EXISTING PAVING SHALL BE DIRECTIONALLY BORED TO MINIMIZE DISTURBANCE TO EXISTING SURFACES.

KEYNOTES



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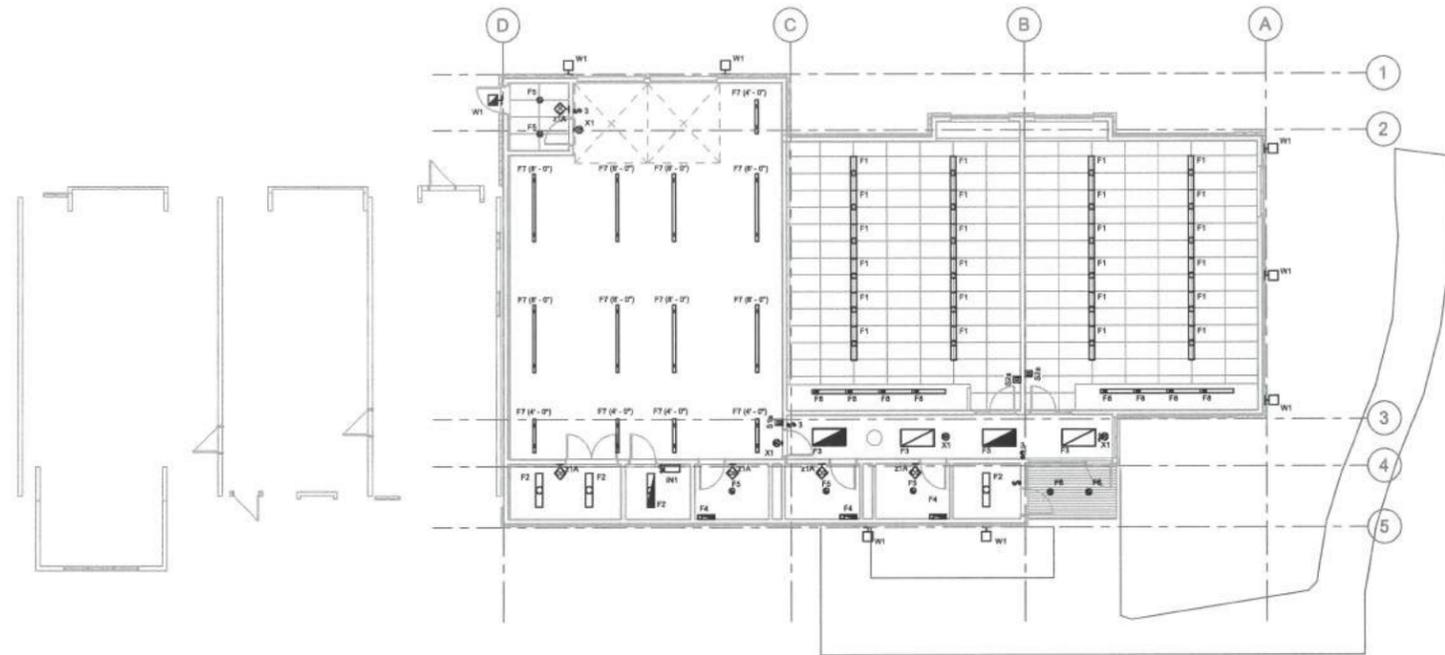
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ELECTRICAL POWER

PROJECT #	DATE
22011	08.22.2022



1 ELECTRICAL RCP - LIGHTING
1/8" = 1'-0"

LIGHTING GENERAL NOTES
 A. COORDINATE LOCATION/INSTALLATION OF MECHANICAL AND ELECTRICAL WORK WITH ALL OTHER TRADES. NO ASPECT OF A SYSTEM INSTALLATION OR ITS ROUGH-IN SHALL COMMENCE UNTIL PROPER AND TIMELY COORDINATION WITH ALL TRADES ASSOCIATED WITH THE INSTALLATION HAS TRANSPIRED. ITEMS TO BE COORDINATED SHALL INCLUDE BUT NOT BE LIMITED TO: BUILDING STRUCTURE, SHEET METAL, ALL PIPING SYSTEMS, LIGHT FIXTURES, CONDUITS, CABLE TRAYS, ETC. REFER TO ALL GENERAL, MECHANICAL, AND ELECTRICAL DRAWINGS AND SPECIFICATIONS FOR THIS PROJECT.

KEYNOTES Ⓢ

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ELECTRICAL LIGHTING

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E2.00

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ELECTRICAL ONE-LINE DIAGRAM

PROJECT # 22011 DATE 08.22.2022

E3.00

RISER DIAGRAM GENERAL NOTES

A. DIAGRAM INDICATES OVERALL LAYOUT OF ELECTRICAL DISTRIBUTION SYSTEM. REFER TO FLOOR PLANS FOR EQUIPMENT LOCATIONS.

B. USE COPPER CONDUCTORS UNLESS OTHERWISE INDICATED.

C. MATCH NEUTRAL CONDUCTOR SIZE TO THE PHASE CONDUCTORS UNLESS OTHERWISE NOTED.

D. ALL WIRING SHALL BE IN RACEWAY AS NOTED. REFER TO SPECIFICATIONS FOR CONDUIT APPLICATION REQUIREMENTS.

E. INSTALL UTILITY TRANSFORMER PAD, METERING EQUIPMENT, AND SERVICE ENTRANCE FEEDERS IN ACCORDANCE WITH UTILITY COMPANY REQUIREMENTS.

RISER DIAGRAM KEYED NOTES:

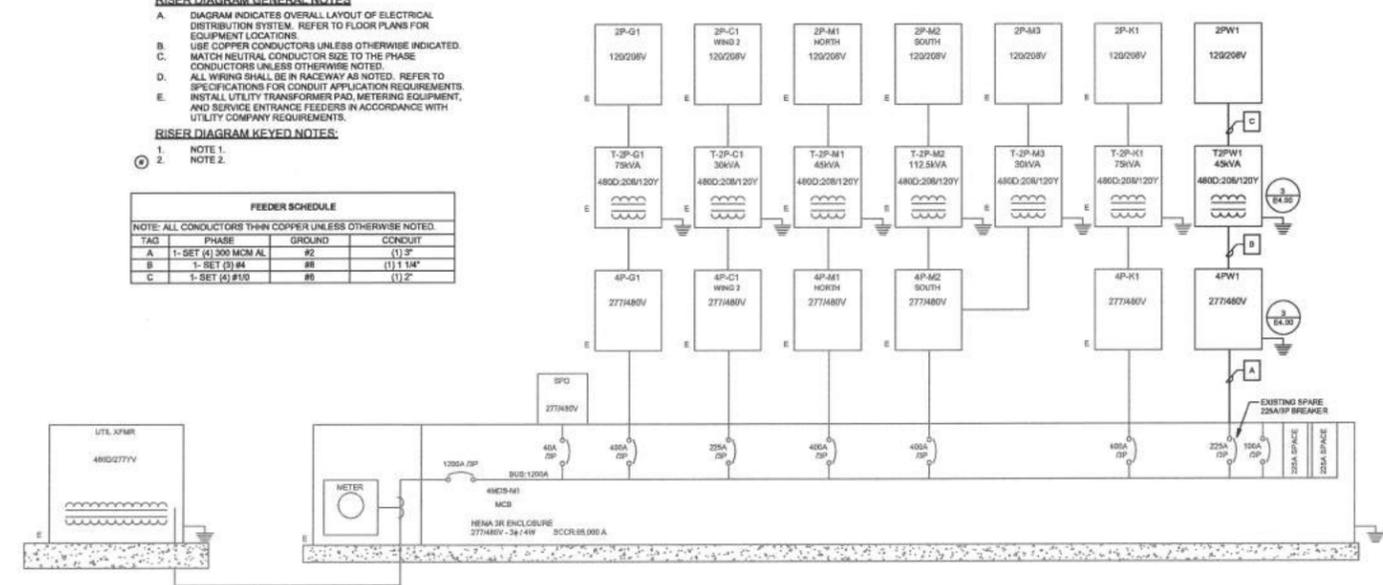
1. NOTE 1.

2. NOTE 2.

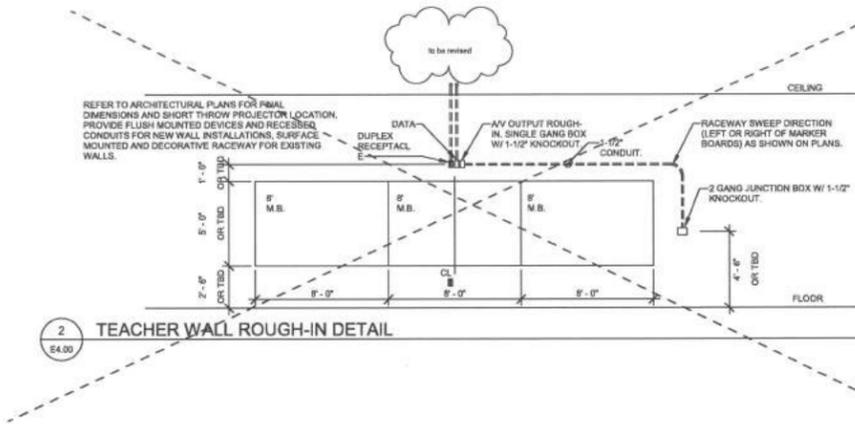
FEEDER SCHEDULE

NOTE: ALL CONDUCTORS THIN COPPER UNLESS OTHERWISE NOTED.

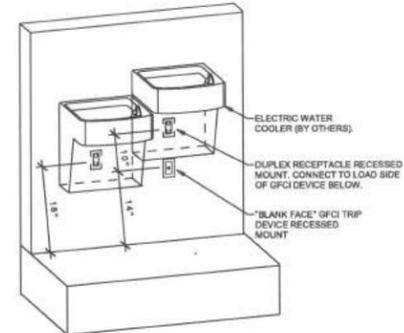
TAG	PHASE	GROUND	CONDUIT
A	1-SET (4) 300 MCM AL	#2	(1) 3"
B	1-SET (3) #4	#8	(1) 1 1/4"
C	1-SET (4) #10	#8	(1) 2"



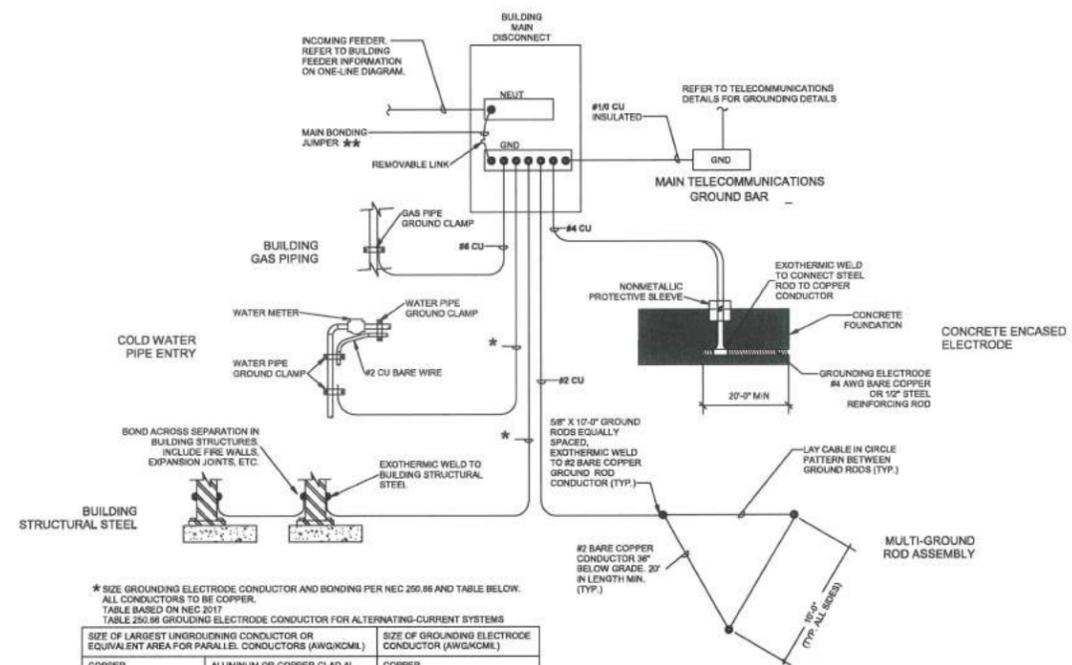
1 ONE-LINE DIAGRAM
E3.00



2
E4.00



1
E4.00



* SIZE GROUNDING ELECTRODE CONDUCTOR AND BONDING PER NEC 250.86 AND TABLE BELOW. ALL CONDUCTORS TO BE COPPER. TABLE BASED ON NEC 2017. TABLE 250.86 GROUNDING ELECTRODE CONDUCTOR FOR ALTERNATING-CURRENT SYSTEMS

SIZE OF LARGEST UNGROUNDING CONDUCTOR OR EQUIVALENT AREA FOR PARALLEL CONDUCTORS (AWG/KCMIL)	ALUMINUM OR COPPER-CLAD AL.	COPPER
#2 OR SMALLER	#10 OR SMALLER	#8
#1 OR #1½	#10 OR #30	#8
#20 OR #30	#10 OR 250	#4
OVER #30 THROUGH 350	OVER 250 THROUGH 500	#2
OVER 350 THROUGH 600	OVER 500 THROUGH 900	#10
OVER 600 THROUGH 1100	OVER 900 THROUGH 1750	#30
OVER 1100	OVER 1750	#30

** SIZE BONDING JUMPER PER NEC 250.102. USE TABLE ABOVE FOR ALL CONDUCTORS BETWEEN #2 AND 1100. ALL INCOMING CONDUCTORS OVER 1100 CU OR 1750 AL SHALL BE SIZED PER THE TABLE 250.102(C). SERVICE EQUIPMENT SHALL BE SUPPLIED WITH BONDING JUMPER FROM THE MANUFACTURER.

- NOTES
- ALL AVAILABLE GROUNDING ELECTRODES WHICH ARE PRESENT AT THE BUILDING OR STRUCTURE SHALL BE BONDED TOGETHER TO FORM THE GROUNDING ELECTRODE SYSTEM (GES). ADDITIONAL CODE-REQUIRED GROUNDING CONNECTIONS NOT SHOWN SHALL BE PROVIDED. CONNECTIONS WHICH ARE ENCASED, UNDERGROUND, OR INACCESSIBLE SHALL BE EXOTHERMIC WELD.
 - ALL BONDING JUMPERS CONNECTING GROUNDING ELECTRODES TO THE GES SHALL BE SIZED EQUAL TO THE GROUNDING ELECTRODE CONDUCTOR (GES) IN ACCORDANCE WITH NEC ARTICLE 250. CONDUCTORS SHALL BE BARE COPPER UNLESS OTHERWISE NOTED.
 - REFER TO SPECIFICATIONS FOR ADDITIONAL PRODUCT AND MATERIAL REQUIREMENTS. GROUNDING AND BONDING METHODS AND MATERIALS SHALL COMPLY WITH NEC ARTICLE 250.
 - REFER TO TECHNOLOGY DETAILS FOR ADDITIONAL REQUIREMENTS RELATED TO TELECOM GROUNDING.

3
E4.00

GROUNDING ELECTRODE SYSTEM

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1	Revision 1	Date 1

ELECTRICAL DETAILS

PROJECT # 22011 DATE 08.22.2022

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LIGHTING INVERTER SCHEDULE							
NOTES: 1. PRODUCTS SHALL BE U.L. OR SIMILARLY LISTED. PRODUCTS MUST BE UL 924 LISTED. 2. PROVIDE PRODUCT WITH MINIMUM 2 YEAR FULL WARRANTY. 3. BATTERIES SHALL BE SIZED TO PROVIDE A MINIMUM 90 MINUTE RUN TIME FOR THE RATED LOAD LISTED. 4. CONTRACTOR IS RESPONSIBLE FOR ALL MISCELLANEOUS HARDWARE NECESSARY TO INSTALL AND SUPPORT THE EQUIPMENT. 5. COORDINATE INVERTER OPERATION WITH ASSOCIATED NORMAL AND EMERGENCY LIGHTING CONTROLS DEVICES (ETD) PROVIDED. REFER TO LIGHTING CONTROLS SCHEDULE.							
DESIGNED BY: DJB							
TYPE	MANUFACTURER	MODEL	DESCRIPTION	NORMAL ON / NORMAL OFF	VOLTAGE	LOAD-VA	APPROVED EQUALS
INT	HUBBELL DUAL-LITE	DL5-1000-120-120-20-01	1000W SINGLE PHASE EMERGENCY CENTRAL INVERTER. NORMALLY ON OPERATION. DELIVERS RATED OUTPUT 120VAC POWER FOR A MINIMUM 90 MINUTES OF OPERATION. NEAR INSTANTANEOUS TRANSFER TIME. INTEGRAL 20A/1P OUTPUT CIRCUIT BREAKER. INTEGRAL PUSH TO TEST BUTTON. VRLA LEAD CALCIUM BATTERIES WITH 10 YEAR TYPICAL BATTERY LIFE.	NORMAL ON	120 V	1000 VA	

LIGHTING CONTROLS SCHEDULE						
NOTES: 1. ALL DEVICES SHALL BE U.L. OR SIMILARLY LISTED. 2. ALL DEVICES PROVIDED WITH MANUFACTURER LIMITED 5 YEAR WARRANTY. 3. PROVIDE LIGHTING CONTROLS WITH MANUFACTURER COMPLIANT POWER PACKS AND LOW VOLTAGE ROOM CONTROLLERS IN QUANTITY REQUIRED TO INSTALL A COMPLETE AND OPERATIONAL SYSTEM. MANUFACTURER OR MANUFACTURERS REF TO PROVIDE DEVICE QUANTITIES, LAYOUTS AND TYPICAL WIRING DETAILS DURING SHOP SUBMITTAL PROCESS. PROVIDE DIMMING COMPATIBLE DEVICES WHERE DIMMING CONTROLS ARE SHOWN. COORDINATE DIMMING TYPE WITH LIGHTING FIXTURES SHOWN. REFER TO LUMINAIRE SCHEDULE FOR FIXTURE DIMMING TYPE. 4. WHERE WIRELESS LIGHTING FIXTURES ARE PROVIDED. POWERPACKS SHALL BE PROVIDED AND INSTALLED WITHIN MANUFACTURER RECOMMENDED DISTANCES TO ENSURE CONTROLLER OPERATION. 5. INSTALL LOW VOLTAGE POWER PACKS AND ROOM CONTROLLERS ABOVE NEARBY ACCESSIBLE CEILING TILES OR IN MECHANICAL/STORAGE SPACES ADJACENT TO CONTROLLED FIXTURES. DO NOT INSTALL POWERPACKS EXPOSED IN COMMON SPACES OR IN INACCESSIBLE LOCATIONS. 6. PROVIDE FACTORY AUTHORIZED REPRESENTATIVE TO DEMONSTRATE TYPICAL INSTALLATION AND COMMISSIONING OF EQUIPMENT. 7. WHERE APPROVED EQUAL MANUFACTURER PRODUCTS SENSORS COVERAGE OR LOAD RATINGS DIFFER FROM BASIS OF DESIGN, CONTRACTOR AND MANUFACTURER ARE RESPONSIBLE FOR PROVIDING ADDITIONAL DEVICES AS NECESSARY TO PROVIDE A COMPLETE AND OPERABLE SYSTEM. 8. ETD'S AND ALL EMERGENCY LIGHTING CONTROLS COMPONENTS SHALL BE TESTED AND LISTED AS COMPATIBLE BY MANUFACTURER WITH NORMAL LIGHTING CONTROLS IN ALL AREAS. 9. UNLESS INDICATED OTHERWISE, LIGHTING CONTROL SCHEMES/OPERATION SHALL BE AS FOLLOWS:						
DESIGNED BY: DJB						
TYPE	DESCRIPTION	ELECTRICAL	MOUNTING	SENSOR TYPE	COVERAGE	APPROVED MANUFACTURERS
S14	SINGLE ZONE CONTROL LIGHT SWITCH. DIMMING LIGHTING CONTROL. LIGHTING CONTROLS NETWORK COMPATIBLE DEVICE. ROOM CONTROLLER COMPATIBLE. ENABLING MULTI-ZONE SWITCHING CONTROL AND MULTI-SOURCE DIMMING. PROVIDED WITH MANUFACTURER DECORATIVE WALLPLATE. DEVICE FINISH MATCHING WIRING DEVICES SPEC.	LOW VOLTAGE	WALL SWITCH / SINGLE GANG	N/A	N/A	HUBBELL, CRESTRON, ACUTY, WATTSTOPPER, AS APPROVED BY ENGINEER.
S2a	TWO ZONE CONTROL LIGHT SWITCH. DIMMING LIGHTING CONTROL. LIGHTING CONTROLS NETWORK COMPATIBLE DEVICE. ROOM CONTROLLER COMPATIBLE. ENABLING MULTI-ZONE SWITCHING CONTROL AND MULTI-SOURCE DIMMING. PROVIDED WITH MANUFACTURER DECORATIVE WALLPLATE. DEVICE FINISH MATCHING WIRING DEVICES SPEC.	LOW VOLTAGE	WALL SWITCH / SINGLE GANG	N/A	N/A	HUBBELL, CRESTRON, ACUTY, WATTSTOPPER, AS APPROVED BY ENGINEER.
OS 21A	WALL SWITCH OCCUPANCY SENSOR. DEVICE FINISH MATCHING WIRING DEVICES SPEC. RATED FOR MIN 18 HP MOTOR. INTEGRAL AUTOMATIC SELF-ADAPTIVE COVERAGE THRESHOLD AND FALSE ON/FALSE OFF CORRECTION. 8-30 MINUTE TIMER SETTINGS.	120V	WALL SWITCH / SINGLE GANG	PASSIVE INFRARED	1000 SQ FT / 180 DEG	HUBBELL, CRESTRON, ACUTY, WATTSTOPPER, GREENGATE, AS APPROVED BY ENGINEER.

LIGHTING FIXTURE SCHEDULE								
NOTES: 1. ALL FIXTURES SHALL BE U.L. OR SIMILARLY LISTED. 2. REFER TO ARCHITECTURAL DOCUMENTS FOR EXACT MOUNTING LOCATIONS, DETAILS, AND CONFIGURATIONS OF ALL LUMINAIRES. IF ARCHITECTURAL DRAWINGS DO NOT CLARIFY EXACT MOUNTING LOCATION OR DETAIL, ISSUE AN RFI FOR ARCHITECT TO SPECIFICALLY CLARIFY PRIOR TO FIXTURE ROUGH-IN. 3. VERIFY COMPATIBILITY OF LIGHT FIXTURES WITH CEILING MATERIAL, ADJACENT CONSTRUCTION, AND ADJACENT FINISHES PRIOR TO SHOP DRAWINGS SUBMITTAL. NOTIFY THE ARCHITECT OF ANY CONFLICTS WITH THE PROPOSED INSTALLATION. 4. CONTRACTOR IS RESPONSIBLE FOR ALL MISCELLANEOUS HARDWARE NECESSARY TO INSTALL AND SUPPORT THE LUMINAIRES. 5. AIM AND TARGET ADJUSTABLE INTERIOR AND EXTERIOR LIGHT FIXTURES UNDER THE OBSERVATION AND IN COMPLIANCE WITH RECOMMENDATIONS OF THE ARCHITECT. INCLUDE LABOR AND MATERIAL COSTS MADE NECESSARY BY THIS REQUIREMENT. 6. CONTRACTOR IS RESPONSIBLE FOR OBTAINING AND FILLING OUT ALL UTILITY REBATE FORMS FOR OWNER.								
DESIGNED BY: DJB								
TYP E	MANUFACTURER	MODEL	DESCRIPTION	VOLTAGE (V)	POWER (W)	LAMP TYPE	APPROVED EQUALS	
	HUBBELL DUAL-LITE	DL5-1000-120-120-20-01	1000W SINGLE PHASE EMERGENCY CENTRAL INVERTER. NORMALLY ON OPERATION. DELIVERS RATED OUTPUT 120VAC POWER FOR A MINIMUM 90 MINUTES OF OPERATION. NEAR INSTANTANEOUS TRANSFER TIME. INTEGRAL 20A/1P OUTPUT CIRCUIT BREAKER. INTEGRAL PUSH TO TEST BUTTON. VRLA LEAD CALCIUM BATTERIES WITH 10 YEAR TYPICAL BATTERY LIFE.	120	1000	NO RM AL ON		
F1	ABL LITHONIA	8WLP4-4L-ADP-E21-LP-840	4" WIDE BY 4" LONG SURFACE MOUNTED CONTINUOUS WRAP FIXTURE. 4,000 LUMENS, 4,000K CCT. INTEGRAL 120/277V 0-10V DIMMING DRIVER.	120	40	LED / 4,000K CCT, 0-10V DIMMING	AS APPROVED BY ENGINEER	
F2	ABL LITHONIA	ZL1N-44-5000LM-FST-A-VOLT-40K-80CR-WH	4" LED UTILITY STRIP FIXTURE. STEEL HOUSING. FROSTED ACRYLIC LENS. 4,000 LUMENS, 4,000K CCT. MIN 80 CRI. UNIVERSAL 120-277V DRIVER. CHAIN SUSPENSION OR SURFACE MOUNTED INSTALLATION AS SHOWN ON DRAWINGS.	120	48	LED / 4,000K CCT, NON-DIMMING	AS APPROVED BY ENGINEER	
F3	ABL LITHONIA	EPANL-2X6-5400LM-80-4-8K-MIN10-2T-MVOLT	2" BY 4" LED FLAT PANEL FIXTURE. ACOUSTICAL CEILING TILE LAY-IN INSTALLATION. ALUMINUM FRAME. SATIN WHITE ACRYLIC LENS. UNIFORM PANEL SURFACE ILLUMINATION. INTEGRAL T-BAR CLIPS. 5,400 LUMENS, 4,000K CCT. MIN 80 CRI. 0-10V DIMMING TO 10%. UNIVERSAL 120-277V DRIVER.	120	48	LED / 4,000K CCT, 0-10V DIMMING	AS APPROVED BY ENGINEER	
F4	AIRY THOMPSON	811-4140K-24-0-D10	SURFACE MOUNTED SMALL APERTURE LINEAR FIXTURE. 7" LENGTH. WALL MOUNTED INSTALLATION. HIGH DIFFUSION POLYCARBONATE LENS. 700 LMFT. 4,000K CCT. MIN 80 CRI. INTEGRAL 120/277V 0-10V DIMMING DRIVER. ARCHITECT TO SELECT FIXTURE FINISH FROM MANUFACTURER STANDARD DURING SUBMITTAL PROCESS.	120	14	LED / 4,000K CCT, 0-10V DIMMING	AS APPROVED BY ENGINEER	
F5	ABL INDY	LB-23LM-40K-120-G4-800-3P-CB-3P	8" RECESSED DOWNLIGHT. OWB INSTALLATION. PARABOLIC SPUN ALUMINUM REFLECTOR. CLEAR SPECULAR FINISH. 50 DEGREE BEAM SPREAD. WHITE TRIM FLANGE. 2,000 LUMENS, 4,000K CCT. MIN 80 CRI. UNIVERSAL 120-277V DRIVER. 0-10V DIMMING STANDARD.	120	24	LED / 4,000K CCT, 0-10V DIMMING	AS APPROVED BY ENGINEER	
F6	ABL LITHONIA	OLCFM-15-DOB	OUTDOOR SURFACE MOUNTED CANOPY LIGHT. POLYCARBONATE LENS. 1,000 LUMENS, INTEGRAL 120/277V NON-DIMMING DRIVER. DARK BRONZE FINISH.	120	17	LED / 4,000K CCT, NON-DIMMING	AS APPROVED BY ENGINEER	
F7	AXIS LIGHTING	TB40L-ED-1105-1000-80-40-8W-25G-88-120-81-1-CR-L	4" WIDE BY 8" LONG DIRECT/INDIRECT LINEAR FIXTURE. 1000 LMFT UPLIGHT. 1,000 LMFT DOWNLIGHT. BATWING UPLIGHT DISTRIBUTION. 4,000K CCT. INTEGRAL 120/277V 0-10V BI LEVEL DIMMING DRIVER. BOTTOM 20" GLOW LENS. FINISH SELECTED FROM MANUFACTURER STANDARD DURING SUBMITTAL PROCESS.	120	8 / FT	LED / 4,000K CCT, 0-10V DIMMING	AS APPROVED BY ENGINEER	
F8	AXIS LIGHTING	SLOT 1 SERIES	RECESSED LINEAR CHANNEL WITH ASYMMETRIC DISTRIBUTION, AIMED TOWARD WHITE BOARD. RECESSED IN SOFFIT.	120	10	LED / 4,000K CCT, 0-10V DIMMING	AS APPROVED BY ENGINEER	
W1	ABL LITHONIA	WPL-LED	LOW PROFILE SQUARE EXTERIOR WALLPACK FIXTURE. 2,800 LUMENS, 4,000K CCT. MIN TO CRI. UNIVERSAL VOLTAGE 120/277V DRIVER. INTEGRAL COLD WEATHER BATTERY. FINISH SELECTED FROM MANUFACTURER STANDARD BY ARCHITECT DURING SUBMITTAL PROCESS.	120	24	LED / 4,000K CCT, NON-DIMMING	AS APPROVED BY ENGINEER	
X1	ABL LITHONIA	LV-6-AB-1-R-129277	LED EXIT SIGN. BLACK ALUMINUM HOUSING BRUSHED ALUMINUM FACERLATE AND CLEAR POLYCARBONATE COVER. RED LETTERS. INTEGRAL 90 MINUTE BATTERY. UNIVERSAL STYLE SINGLE OR DUAL FACE, CHEVRONS AND MOUNTING AS NOTED ON DRAWINGS. UNIVERSAL 120-277V OPERATION.	120	5	RED LED	AS APPROVED BY ENGINEER	

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22011	08.22.2022

E5.00

EQUIPMENT CONNECTION SCHEDULE												
ABBREVIATIONS:												
1	NEMA 1 ENCLOSURE	INT	INTEGRAL WITH EQUIPMENT FROM FACTORY									
3R	NEMA 3R ENCLOSURE	MMS	MANUAL MOTOR STARTER WITH FUSES									
4	NEMA 4 ENCLOSURE	NFD	NON-FUSED DISCONNECT SWITCH, HEAVY DUTY									
4X	NEMA 4X ENCLOSURE	RD	RETURN AIR DUCT DETECTOR									
DC	PROVIDED BY OTHERS	RSR	RUN STATUS RELAY, NORMALLY OPEN									
CB	CIRCUIT BREAKER IN PANEL	SD	SUPPLY AIR DUCT DETECTOR									
CSD	COMBINATION STARTER/DISCONNECT	SSP	START/STOP PUSHBUTTON WITH PILOT									
CP	CORD AND PLUG PROVIDED WITH UNIT	SS	START/STOP PUSHBUTTON									
ECB	ENCLOSED CIRCUIT BREAKER	ST	SHUNT TRIP									
FAR	FIRE ALARM SHUTDOWN RELAY	TCR	TIME DELAY OFF RELAY									
FDS	FUSED DISCONNECT SWITCH, HEAVY DUTY	TS	TOGGLE SWITCH WITH PLUG FUSE									
GF	GROUND FAULT CIRCUIT INTERRUPTION	VFD	VARIABLE FREQUENCY DRIVE									
HCA	HAND-OFF-ALTD											
ELECTRICAL CHARACTERISTICS												
JAG	VOLTAGE	PHASE	MOTOR HP	KW	MCA	TYPE	SIZE (AMPS)	NEMA RATING	FUSE SIZE (AMPS)	STARTER	DESCRIPTION	REMARKS
CLH-1	480 V	3										
CLH-2	480 V	3										
CLH-3	480 V	3										
CLH-4	480 V	3										
CLH-5	480 V	3										
EP-1	120 V	1										
RTU-1	480 V	3										
RTU-2	480 V	3										
RTU-3	480 V	3										
WH-1	480 V	3										

BRANCH PANEL: 4PW1															
LOCATION: MECH 110			VOLTAGE: 480/277 WYE			SCCR RATING:									
SUPPLY FROM: 4MDS-M1			PHASES: 3			MAINS TYPE: MCB									
MOUNTING: SURFACE			WIRES: 4			MAINS RATING: 250 A									
ENCLOSURE: TYPE 1						MCB RATING: 225 A									
NOTES:															
CIRCUIT DESCRIPTION	P	AMP	CKT NO	A	B	C	CKT NO	AMP	P	CIRCUIT DESCRIPTION					
12PW1	3	75 A	1	3420			2								
			3		4380			4							
			5				2340								
			7	0											
RTU1	3	2 A	8		0		10								
			11				0								
			13	0											
			15		0										
RTU2	3	2 A	17				0								
			19	0											
			21		0										
			23				0								
RTU3	3	2 A	25	0			26								
			27		0										
			29				0								
			31												
WH1	3	1 A	33				34								
			35				36								
			37				38								
			39				40								
			41				42								
						3420 VA	4380 VA	2340 VA							
						13 A	15 A	8 A							
			LEGEND: "G" INDICATES GFCI TYPE BREAKER												
			LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED...	PANEL TOTALS								
			POWER	0 VA	0.00%	0 VA	TOTAL CONN. LOAD:	9820 VA	TOTAL EST. DEMAND:	9820 VA					
RECEPTACLE	9820 VA	100.00%	9820 VA	TOTAL CONN. LOAD:	9820 VA	TOTAL EST. DEMAND:	9820 VA								
				TOTAL CONN.:	12 A	TOTAL EST. DEMAND:	12 A								
NOTES:															

BRANCH PANEL: 2PW1												
LOCATION: MECH 110			VOLTAGE: 120/208 WYE			SCCR RATING: 10,000 A						
SUPPLY FROM: 12PW1			PHASES: 3			MAINS TYPE: MCB						
MOUNTING: SURFACE			WIRES: 4			MAINS RATING: 125 A						
ENCLOSURE: TYPE 1						MCB RATING: 125 A						
NOTES:												
CIRCUIT DESCRIPTION	P	AMP	CKT NO	A	B	C	CKT NO	AMP	P	CIRCUIT DESCRIPTION		
RECEPTACLE ROOM 117	1	20 A	1	1380			2					
RECEPTACLE	1	20 A	3		390		4					
RECEPTACLE	1	20 A	5			380	6					
RECEPTACLE ROOM 114	1	20 A	7	800			8					
EWC	1	G 20 A	8		1000		10					
RECEPTACLE SPACE 114	1	20 A	11			380	12					
RECEPTACLE SPACE 114	1	20 A	13	360			14					
RECEPTACLE SPACE 114	1	20 A	15		720		16					
FAN	1	20 A	17			0	18					
			19				20					
RECEPTACLE SPACE 114	1	20 A	21		360		22					
RECEPTACLE SPACE 114	1	20 A	23			380	24					
COILING DOOR	1	20 A	25	0			26					
COILING DOOR	1	20 A	27		0		28					
RECEPTACLE SPACE 115	1	20 A	29			720	30					
RECEPTACLE SPACE 115	1	20 A	31	540			32					
RECEPTACLE SPACE 115	1	20 A	33		720		34					
RECEPTACLE SPACE 116	1	20 A	35			540	36					
RECEPTACLE SPACE 116	1	20 A	37	540			38					
RECEPTACLE SPACE 116	1	20 A	39		800		40					
			41				42					
			5420 VA	4080 VA	2340 VA							
			30 A	36 A	28 A							
LEGEND: "G" INDICATES GFCI TYPE BREAKER												
LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED...	PANEL TOTALS								
POWER	0 VA	0.00%	0 VA	TOTAL CONN. LOAD:	9820 VA	TOTAL EST. DEMAND:	9820 VA					
RECEPTACLE	9820 VA	100.00%	9820 VA	TOTAL CONN. LOAD:	9820 VA	TOTAL EST. DEMAND:	9820 VA					
				TOTAL CONN.:	27 A	TOTAL EST. DEMAND:	27 A					
NOTES:												

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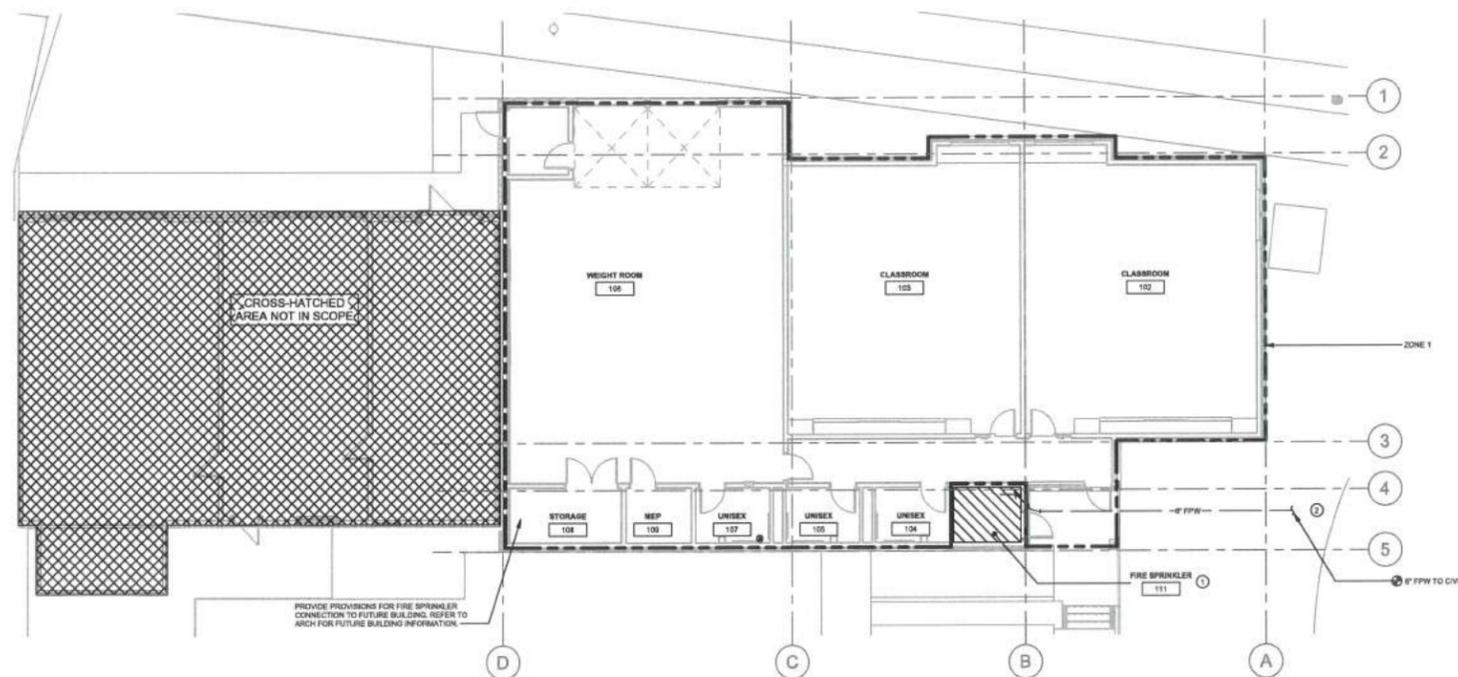
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NO	DESCRIPTION	DATE

**FIRE PROTECTION
PLAN**

PROJECT #	DATE
22011	08.22.2022

F1.00



1 GROUND LEVEL - FIRE PROTECTION
F1.00 1/8" = 1'-0"

KEYNOTES ①

- 1 FIRE DEPARTMENT CONNECTION (FDC) SHALL BE PROVIDED AT A FIRE THE FIRE SERVICE VAULT. REFER TO CIVIL DRAWINGS.
- 2 FIRE DEPARTMENT CONNECTION (FDC) SHALL BE PROVIDED AT A FIRE THE FIRE SERVICE VAULT. REFER TO CIVIL DRAWINGS.

GENERAL NOTES:

- A. REFER TO M0.00 FOR GENERAL NOTES & SYMBOLS.
- B. AREAS NOTED SHALL BE FULLY SPRINKLED PER NFPA 13.
- C. ANY PIPE SIZES INDICATED ARE ESTIMATES ONLY. FINAL SIZES SHALL BE DETERMINED BY HYDRAULIC CALCULATIONS.
- D. REFER TO ARCHITECTURAL DRAWINGS FOR REFLECTED CEILING PLANS.
- E. SIZE PIPING TO ACCOMMODATE FUTURE GYMNASIUM ADDITION, PLUS 5 PSI SAFETY FACTOR. HYDRAULIC CALCULATIONS SHALL INCLUDE PROVISIONS FOR FUTURE GYMNASIUM.
- F. DUCTWORK HAS PRIORITY OVER SPRINKLER PIPING. COORDINATE PIPE ROUTING AND ELEVATIONS WITH DUCTWORK. RELOCATE SPRINKLER PIPING AS REQUIRED.
- G. SPRINKLERS SHALL GENERALLY BE SEMI-RECESSED PENDENT TYPE IN SPACES WITH FINISHED CEILINGS. SPRINKLERS IN SPACES WITH EXPOSED CEILINGS SHALL BE UPRIGHT.
- H. SPRINKLER IN ELECTRICAL AND I.T. ROOMS SHALL BE SIDEWALL. DO NOT ROUTE PIPING OVER ELECTRICAL AND I.T. ROOMS.
- I. SPRINKLERS IN VESTIBULES SHALL BE HIGH-TEMPERATURE, DRY-TYPE.
- J. PROVIDE DRY SIDEWALL HEADS FOR EXTERIOR COVERINGS. ALL AREAS TO BE COVERED UNLESS SPECIFICALLY NOTED OR ALLOWED BY A.H.J.
- K. VERIFY PLACEMENT OF EXTERIOR HEAD LOCATIONS WITH ARCHITECT AND OWNER PRIOR TO INSTALLATION.

MECHANICAL - GENERAL NOTES

- COORDINATE LOCATION AND INSTALLATION OF MECHANICAL AND ELECTRICAL WORK WITH ALL OTHER TRADES. NO ASPECT OF A SYSTEM INSTALLATION OR REVISION SHALL COMMENCE UNTIL PROPER AND TIMELY COORDINATION WITH ALL TRADES ASSOCIATED WITH THE INSTALLATION HAS TRANSPIRED. ITEMS TO BE COORDINATED SHALL INCLUDE BUT NOT BE LIMITED TO: BUILDING STRUCTURE, SHEET METAL, ALL PIPING SYSTEMS, LIGHT FIXTURES, CONDUITS, CABLE TRAYS, ETC. REFER TO ALL GENERAL, MECHANICAL, AND ELECTRICAL DRAWINGS AND SPECIFICATIONS FOR THIS PROJECT. ANY REWORK OF INSTALLED EQUIPMENT WILL BE AT CONTRACTOR'S EXPENSE.
- INCORPORATE INTO INSTALLATION MECHANICAL SPECIFICATIONS, DRAWINGS, STATE AND LOCAL CODES, AND OTHER APPLICABLE REQUIREMENTS.
- WARNING - CALL 48 HOURS BEFORE YOU DIG. LAW REQUIRES ANYONE DOING ANY EXCAVATION, FENCING, PLANTING OR DRILLING TO CALL 48 HOURS IN ADVANCE. HAND DIG WITHIN 18 INCHES OF ANY LOCATE MARK OR FLAG. ONE CALL 811.
- ON COMPLETION OF THE INSTALLATION, MECHANICAL CONTRACTOR SHALL COOPERATE WITH THE OWNER TO PROVIDE ANY NECESSARY ADJUSTING AND BALANCING TO OBTAIN PROPER OPERATION OF ALL EQUIPMENT AND SYSTEMS. CONTRACTOR SHALL PROVIDE ALL FACILITIES AND EQUIPMENT, AND MAKE ALL TESTS, REQUIRED FOR ADJUSTMENTS AND BALANCING TO ESTABLISH THE PROPER PERFORMANCE OF ANY PIECE OF EQUIPMENT.
- REFER TO ARCHITECTURAL SPECIFICATIONS FOR FIRESTOPPING AND TO ARCHITECTURAL CODE PLAN FOR FIRE RATED WALLS AND FLOORS. EACH TRADE IS RESPONSIBLE TO FIRESTOP PENETRATIONS THROUGH RATED ASSEMBLIES.
- EACH TRADE IS RESPONSIBLE TO MAKE PENETRATIONS WHERE REQUIRED IN EXISTING WALLS, FLOORS, AND CEILINGS. PENETRATIONS SHALL BE NEAT. ANY OVERCUT SHALL BE CONCEALED OR CALKED.
- ALL CONCEALED AND EXPOSED PIPING AND DUCT WALL PENETRATIONS SHALL BE CALKED TO PREVENT NOISE TRANSFER BETWEEN SPACES.
- CONTRACTOR SHALL BE RESPONSIBLE TO CREATE NECESSARY OPENINGS TO THE BUILDING TO REMOVE EXISTING ITEMS AND TO BRING IN NEW EQUIPMENT. ALL OPENINGS CREATED SHALL BE PATCHED AND FINISHED WITH MATERIALS TO MATCH EXISTING CONDITIONS. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR THIS WORK.
- MECHANICAL CONTRACTOR SHALL WARRANT ALL EQUIPMENT AND INSTALLATION PER THE CONTRACT DOCUMENTS. CONDITIONING REFRIGERATION SYSTEMS SHALL BE WARRANTED FOR A MINIMUM OF 5 YEARS, PARTS ONLY, NON-PRORATED, FROM THE DATE OF OCCUPANCY OR SUBSTANTIAL COMPLETION, OR WHICHEVER OCCURS FIRST. THE WARRANTY SHALL APPLY TO COMPRESSORS, EVAPORATORS, AND CONDENSER COILS, HIGH AND LOW SIDE PIPING AND PIPING SPECIALTIES WHICH SHALL INCLUDE EXPANSION AND SILENCE VALVES, RELIEF VALVES, FILTER DRYERS, AND SIGHT GLASSES. PRESSURE GAUGES AND PRESSURE SWITCHES ARE NOT UNDER THE EXTENDED WARRANTY EXCEPT FOR LOSS OF REFRIGERANT AND CONSEQUENTIAL DAMAGE TO THE SYSTEM WHICH WILL BE AN EXTENDED WARRANTY OBLIGATION. ALL DEFECTS THAT BECOME APPARENT WITHIN THE WARRANTY PERIOD SHALL BE REPAIRED BY MECHANICAL CONTRACTOR AS DIRECTED BY THE ENGINEER THROUGH THE OWNER'S REPRESENTATIVE. WARRANTY WILL NOT OBLIGATE THE MECHANICAL CONTRACTOR TO REPAIR DAMAGE RESULTING FROM ACCIDENT OR IMPROPER OPERATION OF CARE ON THE PART OF THE OWNER, AND NOT DUE TO DEFECTIVE MATERIAL OR INSTALLATION. REFER TO SPECIFICATIONS FOR ADDITIONAL DETAILS AND OTHER WARRANTY INFORMATION.

HVAC - NOTES

- CONTRACTOR TO COORDINATE INSTALLATION WITH ALL OTHER TRADES AS DESCRIBED IN MECHANICAL GENERAL NOTE #1.
- MECHANICAL CONTRACTOR TO PROVIDE A COMPLETE HVAC SYSTEM, INCLUDING SUPPLY, RETURN, EXHAUST, AND VENTILATION DUCTWORK, MECHANICAL EQUIPMENT, SUPPORTS, HANGERS, DIFFUSERS, GRILLES, REGISTERS, AND ALL APPURTENANCES. INSTALL ALL EQUIPMENT PER MANUFACTURER'S RECOMMENDATIONS. INSTALL SYSTEM TO MEET ALL CITY AND STATE CODES AND REQUIREMENTS.
- DRAWING PLANS, SCHEMATICS, AND DIAGRAMS INDICATE GENERAL LOCATION AND ARRANGEMENT OF DUCT SYSTEM. INDICATED DUCT LOCATIONS, CONFIGURATIONS, AND ARRANGEMENTS WERE USED TO SIZE DUCTS AND CALCULATE FRICTION LOSS FOR AIR-HANDLING EQUIPMENT SIZING AND FOR OTHER DESIGN CONSIDERATIONS. INSTALL DUCT SYSTEMS AS INDICATED UNLESS DEVIATIONS TO LAYOUT ARE APPROVED ON SHOP DRAWINGS AND COORDINATION DRAWINGS.
- ALL DUCT DIMENSIONS LISTED ARE INTERIOR FREE AREA DUCT DIMENSIONS AND DO NOT INCLUDE INSULATION REQUIREMENTS.
- CONTRACTOR TO SEAL ALL WALL DUCT PENETRATIONS. PROVIDE FIRE CALKING ASSEMBLIES FOR PENETRATIONS OF RATED WALLS. REFER TO ARCHITECTURAL DRAWINGS FOR WALL RATINGS. DUCT INSULATION TO CONTINUE THRU WALL PENETRATIONS UNBROKEN, EXCEPT WHERE FIRE OR FIRE/SMOKE DAMPERS ARE INSTALLED. SEAL AROUND DUCT INSULATION AT WALL PENETRATIONS.

PLUMBING - NOTES

- CONTRACTOR TO COORDINATE INSTALLATION WITH ALL OTHER TRADES AS DESCRIBED IN MECHANICAL GENERAL NOTE #1.
- CONTRACTOR TO PROVIDE A COMPLETE PLUMBING SYSTEM, INCLUDING PIPE, INSULATION, HANGERS, SUPPORTS, EQUIPMENT, WATER HEATERS, FIXTURES, MINDING VALVES, VALVES, AND ALL APPURTENANCES. INSTALL ALL EQUIPMENT PER MANUFACTURER'S RECOMMENDATIONS. SIZE AND INSTALL PLUMBING SYSTEM PER PLUMBING CODE. COMPLY WITH ALL LOCAL AND STATE CODES AND REQUIREMENTS.
- DRAWING PLANS, SCHEMATICS, AND DIAGRAMS INDICATE GENERAL LOCATION AND ARRANGEMENT OF PLUMBING SYSTEM.
- EXISTING PIPING AND EQUIPMENT LOCATIONS SHOWN ARE BASED ON ORIGINAL DRAWINGS. CONTRACTOR IS RESPONSIBLE FOR LOCATING PIPING UNDER GROUND OR IN WALLS/CHASES WHERE WORK IS REQUIRED.
- CONTRACTOR TO SEAL ALL WALL PIPE PENETRATIONS. PROVIDE FIRE CALKING ASSEMBLY FOR PENETRATIONS OF FIRE RATED WALLS. REFER TO ARCHITECTURAL DRAWINGS FOR WALL RATINGS. PIPE INSULATION TO CONTINUE THRU WALL PENETRATIONS UNBROKEN. SEAL AROUND PIPE INSULATION AT WALL PENETRATIONS.
- CONTRACTOR TO VERIFY WITH ENGINEER FOR ANY FIXTURES NOT TAGGED OR SPED PRIOR TO ANY WORK. CONTRACTOR IS RESPONSIBLE FOR ALL PLUMBING FIXTURES SHOWN ON ARCHITECTURAL DRAWINGS. TAGGED OR NOT TAGGED ON PLUMBING MECHANICAL DRAWINGS UNLESS SPECIFICALLY NOTED AS EXCLUDED FROM SCOPE.

FIRE PROTECTION - NOTES

- CONTRACTOR TO COORDINATE INSTALLATION WITH ALL OTHER TRADES AS DESCRIBED IN MECHANICAL GENERAL NOTE #1.
- CONTRACTOR TO PROVIDE A COMPLETE FIRE PROTECTION SYSTEM, INCLUDING PIPE, SPRINKLERS, COVERS, VALVES, FLOW SWITCHES, HANGERS, SUPPORTS, EQUIPMENT, AND ALL APPURTENANCES. INSTALL ALL EQUIPMENT PER MANUFACTURER'S RECOMMENDATIONS. SIZE AND INSTALL FIRE PROTECTION SYSTEM PER NFPA 13. COMPLY WITH ALL LOCAL AND STATE CODES AND REQUIREMENTS.
- DRAWING PLANS, SCHEMATICS, AND DIAGRAMS INDICATE GENERAL LOCATION AND ARRANGEMENT OF FIRE PROTECTION SYSTEM. ROUTE PIPING IN SUCH A MANNER AS TO AVOID AND/OR MINIMIZE CONFLICT WITH OTHER TRADES. ANY PIPING REQUIRED TO BE SLOPED SHALL HAVE RIGHT OF WAY.
- LOCATE SPRINKLER HEADS TO PROVIDE SUFFICIENT COVERAGE IN INDIVIDUAL SPACES WITHOUT CONFLICT TO LIGHTS, DIFFUSERS, AND GRILLES. PROVIDE MANUAL DRAIN VALVES AT ALL LOW POINTS IN THE SYSTEM WHERE OFFSETS ARE REQUIRED TO AVOID CONFLICTS.
- ALL SPRINKLER HEADS SHALL BE CENTERED WITHIN CEILING TILES OR AS INDICATED ON THE ARCHITECTURAL REFLECTED CEILING PLAN (RCP), UNLESS INDICATED OTHERWISE.
- INSTALL DRY TYPE HEADS TO COVER EXTERIOR CANOPES OR AREAS EXPOSED TO FREEZING CONDITIONS.
- SPRINKLER MAINS SHALL NOT BE ROUTED THRU COMMUNICATION OR ELECTRICAL ROOMS.
- PIPING SHALL NOT BLOCK CLEARANCES ANY MECHANICAL EQUIPMENT. INSTALLING CONTRACTOR SHALL BE RESPONSIBLE FOR RELOCATING PIPING AND HEADS IF ACCESS CLEARANCES ARE OBSTRUCTED.
- PROVIDE PROTECTIVE COVERS OVER ALL HEADS LOCATED IN THE GYMNASIUM OR AREAS OF LOW HEAD HEIGHT WHERE EXPOSED HEADS MAY BE DAMAGED. CONTRACTOR SHALL INCLUDE COST TO REMOVE AND REPLACE ALL EXISTING PIPING IN OUTLINED SCOPE OF WORK, AS THE EXISTING PIPING MAY CONFLICT WITH NEW DUCTWORK. NEW DUCTWORK HAS PRIORITY OVER NEW AND EXISTING SPRINKLER PIPING.

H.V.A.C. / DUCTWORK SYMBOLS

RECT. RND. OVAL	SUPPLY (SA) OUTSIDE (OA) VENTILATION (VA) AIR DUCT (UP / DOWN / SECTION)
	RETURN (RA) AIR DUCT (UP / DOWN / SECTION)
	EXHAUST (EA) AIR DUCT (UP / DOWN / SECTION)
	RECTANGULAR DUCT (WIDTH / HEIGHT / SYSTEM)
	ROUND DUCT (DIAMETER / SYSTEM)
	FLAT OVAL DUCT (WIDTH / HEIGHT / SYSTEM)
	SUPPLY DIFFUSER
	SUPPLY REGISTER OR GRILLE
	LINEAR SLOT DIFFUSER
	RETURN REGISTER OR GRILLE
	EXHAUST REGISTER OR GRILLE
	DUCT ACCESS DOOR
	DUCT END CAP
	TURNING VANES
	VAN TERMINAL UNIT
	FLEXIBLE DUCTWORK
	ELEVATION CHANGE (RISE OR DROP)
	HIGH EFF. TAKE OFF FITTING w/ VOLUME DAMPER
	BACKDRAFT DAMPER
	OPPOSITE BLADE DAMPER
	PARALLEL BLADE DAMPER
	VOLUME CONTROL DAMPER
	FIRE DAMPER
	SMOKE DAMPER
	FIRE/SMOKE DAMPER
	MOTORIZED ACTUATOR
	THERMOSTAT
	CARBON MONOXIDE SENSOR
	HUMIDISTAT
	SIDE WALL DIFFUSER
	ROUND DIFFUSER
	EXTERIOR LOUVER
	FIXTURE IDENTIFICATION TAG NECK SIZE / CFM

PIPING LEGEND - PLUMBING

CW	DOMESTIC COLD WATER
HW	DOMESTIC HOT WATER
DSW	DOMESTIC SOFT WATER
RHW	RECIRCULATING HOT WATER
SAW	SANITARY
ST	STORM
SO	STORM OVERFLOW
P	TRAP PRIMER
V	VENT

PIPING LEGEND - FIRE PROTECTION

FPD	FIRE PROTECTION DRY
FPF	FIRE PROTECTION PRE-ACTION
FPW	FIRE PROTECTION WET

MECHANICAL ABBREVIATIONS

ABSOR	ABSORPTION	FB	FLOOR BASK
ACU	AIR CONDITIONING UNIT	FT	FOOTING
AD	ACCESS DOOR OR AREA DRAIN	FTG	FOOTING
AF	ABOVE FINISHED FLOOR	GA	GAGE
AFG	ABOVE FINISHED GRADE	GAL	GALLON
AHJ	AIR HANDLING UNIT	GALV	GALVANIZED
AV	AIR VENT	GC	GENERAL CONTRACTOR
BOT	BOTTOM	GW	GREASE WASTE
BTU	BRITISH THERMAL UNIT	GPH	GALLONS PER HOUR
BTUHR	BTU PER HOUR	GPM	GALLONS PER MINUTE
BV	BALL VALVE	HR	HOUR
CA	COMPRESSED AIR	HTG	HEATING
CB	CATCH BASIN	HB	HOSE BIBB
CENT	CENTRIFUGAL	ISP	INTERNAL STATIC PRESSURE
CFM	CUBIC FEET PER MINUTE	JR	JANITOR RECEPTOR
CONB	CONDENSATE	LAV	LAVATORY
CO	CLEAN OUT	LDBT	LEAVING DRY BULB TEMPERATURE
CONC	CONCRETE	LWT	LEAVING WATER TEMPERATURE
CONTR	CONTRACTOR	LWB	LEAVING WET BULB TEMPERATURE
CP	CONDENSATE PUMP/CIRC. PUMP	MB	MOP BASIN
CJ	COPPER	MBH	1000 BTU/H
CUK	CABINET UNIT HEATER	MC	MECHANICAL CONTRACTOR
CWP	CIRCULATING WATER PUMP	MECH	MECHANICAL
DDC	DIRECT DIGITAL CONTROLS	MH	MANHOLE
DN	DOWN	NTS	NOT TO SCALE
DR	DRAIN	DA	OUTSIDE AIR
DS	DOWNSPOUT	OO	OVERFLOW ROOF DRAIN
EA	EXHAUST AIR	PSI	POUNDS PER SQUARE INCH
EAT	EXHAUST AIR TEMPERATURE	PRV	POWER ROOF VENTILATOR
EC	ELECTRICAL CONTRACTOR	PRV	PRESSURE REDUCING VALVE
EDBT	ENTERING DRY BULB TEMPERATURE	PV	PRESSURE VENT
EEW	EMERGENCY EYE WASH	RY	RELIEF VALVE
EF	EXHAUST FAN	RA	RETURN AIR
EJ	EXPANSION JOINT	RD	ROOF DRAIN
EQUIP	EQUIPMENT	RH	RELATIVE HUMIDITY
ESE	EMERGENCY SHOWER/EYEWASH	RTU	ROOF TOP UNIT
EST	EXTERNAL STATIC PRESSURE	RV	RELIEF VALVE
EWET	ENTERING WET BULB TEMPERATURE	RVT	ROOF VENT TERMINATION
EW	ENTERING WATER TEMPERATURE	SA	SINK
EX	EXISTING	SA	SUPPLY AIR
EXH	EXHAUST	SH	SHOWER
EXP	EXPANSION	SO	STORM OVERFLOW
FAI	FRESH AIR INTAKE	ST	STOVING
FCU	FAN COIL UNIT	TOC	TEMPERATURE CONTROL CONTRACTOR
FD	FLOOR DRAIN	TYP	TYPICAL
FDC	FIRE DEPARTMENT CONNECTION	UH	UNIT HEATER
FLEX	FLEXIBLE	UR	URINAL
FLR	FLOOR	UV	UNIT VENTILATOR
FPM	FEET PER MINUTE	VA	VENTILATION AIR
FPS	FEET PER SECOND	VTR	VENT THROUGH ROOF
		WB	WALL BOX - CONDENSATE
		WC	WATER CLOSET
		WH	WATER HEATER
		WMS	WIRE MESH SCREEN
		WSA	WATER SHOCK ARRESTOR

GENERAL SYMBOLS

	EXISTING = HALFTONE LINEWORK
	NEW = DARK LINEWORK
	DEMO = DASHED DARK LINEWORK
	BELOW GRADE = LONG DASHED DARK LINEWORK
	NEW CONNECTION POINT
	POINT OF DISCONNECT
	KEYNOTE
	EQUIPMENT IDENTIFICATION TAG
	DETAIL DRAWING REFERENCE TAG, SIMILAR, TYP-TYPICAL, OPP-OPPOSITE SHEET REFERENCE
	SECTION CUT REFERENCE TAG, SIMILAR, TYP-TYPICAL, OPP-OPPOSITE SHEET REFERENCE
	INTERIOR ELEVATION DRAWING REFERENCE TAG

PLUMBING ACCESSORY LEGEND

	HOSE BIBB
	ROOF HYDRANT
	CLEAN OUT
	FLOOR CLEAN OUT
	FLOOR DRAIN
	VENT THRU ROOF (X DENOTES IDENTIFICATION)
	ROOF DRAIN
	OVERFLOW ROOF DRAIN
	COMBO ROOF/OVERFLOW DRAIN
	LAMB TONGUE
	BACKFLOW PREVENTER

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LOWELL SCHOOL DISTRICT
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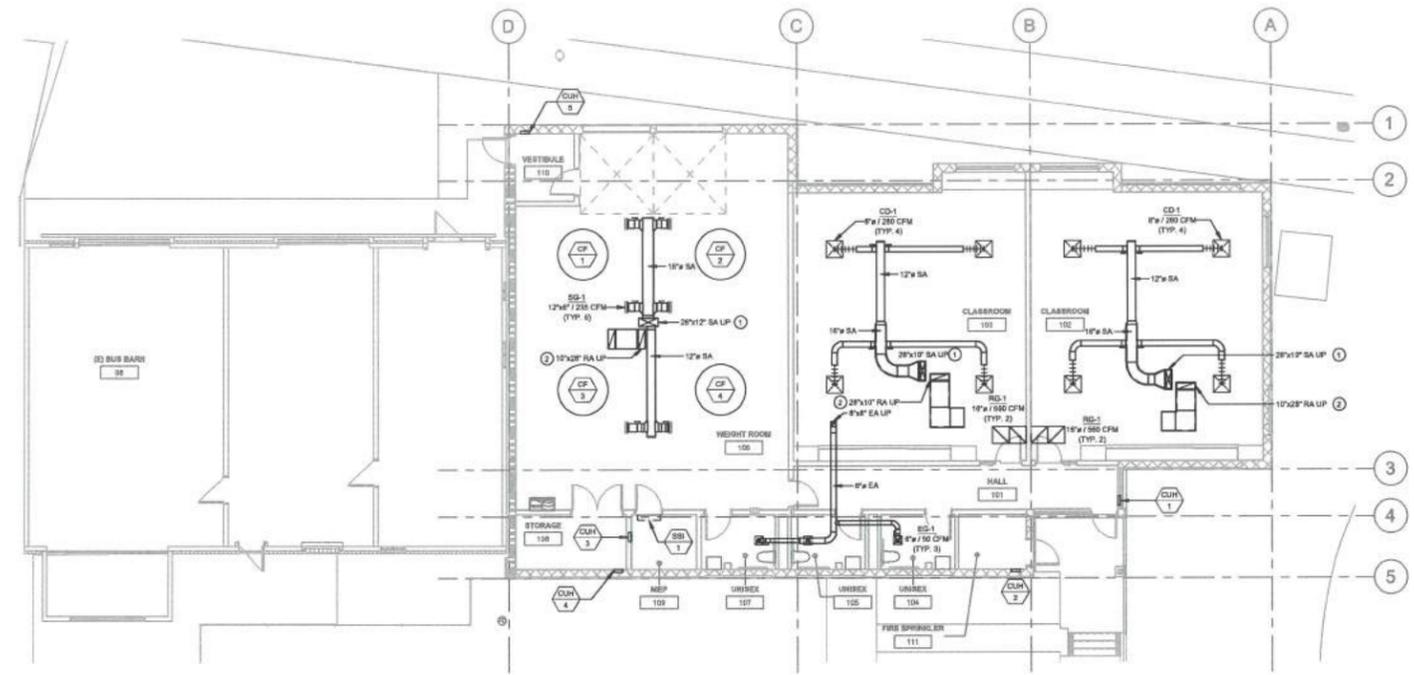
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NO	DESCRIPTION	DATE
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MECHANICAL GENERAL NOTES & SYMBOLS

PROJECT #	DATE
22011	08.22.2022

MO.00



1 GROUND LEVEL - MECHANICAL
M1.00 1/8" = 1'-0"

KEYNOTES

- 1 PROVIDE 1" ACOUSTIC LINING FOR THE FIRST 10 FEET OF SUPPLY AIR DUCTWORK.
- 2 PROVIDE 1" ACOUSTIC LINING IN ALL RETURN AIR DUCTWORK. TERMINATE DUCT WITH WMS.

GENERAL NOTES

- A. REFER TO M0.00 FOR GENERAL NOTES & SYMBOLS.
- B. REFER TO M3.00 FOR MECHANICAL DETAILS.
- C. REFER TO M4.00 FOR CONTROLS SEQUENCES AND DIAGRAMS.
- D. REFER TO M5.00 AND M5.01 FOR MECHANICAL SCHEDULES.
- E. BRANCH DUCT SIZES TO AIR TERMINALS SHALL MATCH NECK SIZE OF GRILLE, REGISTER, OR DIFFUSER UNLESS NOTED OTHERWISE.
- F. MAXIMUM FLEXIBLE DUCT LENGTH TO DIFFUSERS SHALL BE 8', WITH MAXIMUM OF ONE 90 DEGREE ELBOW.

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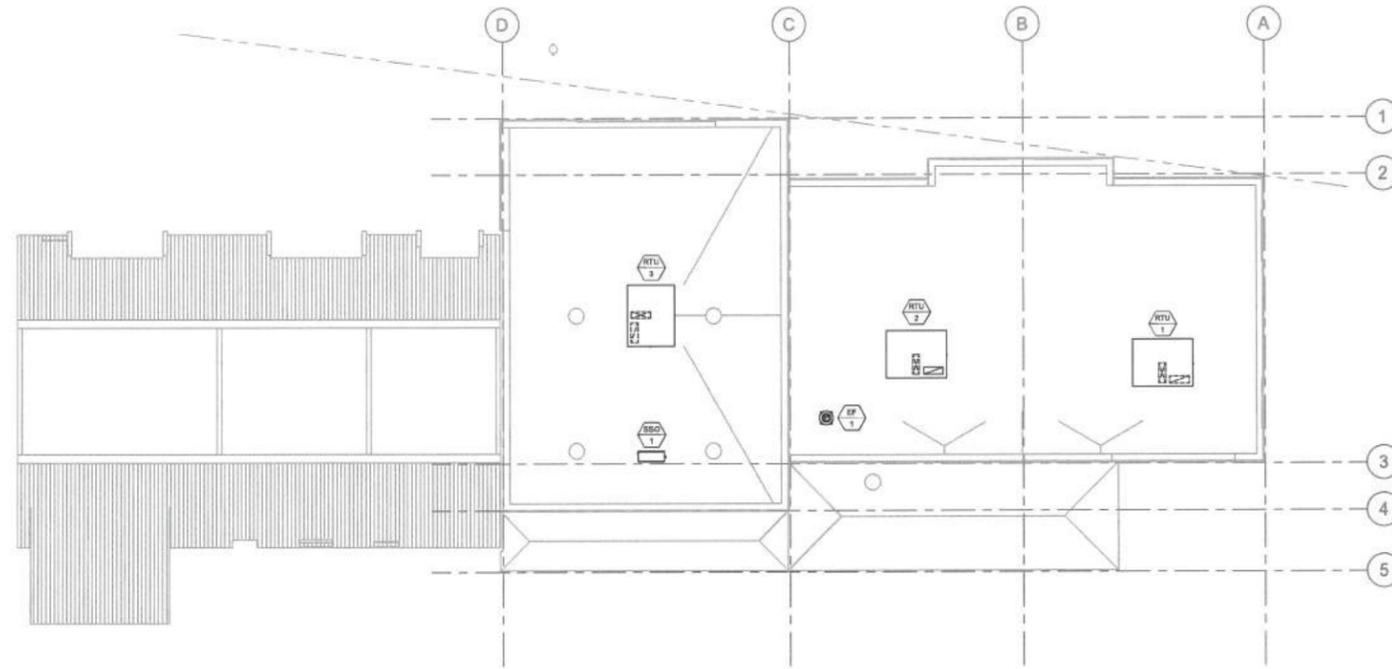
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NO	DESCRIPTION	DATE

MECHANICAL HVAC PLAN

PROJECT # 22011 DATE 08.22.2022

M1.00



1 ROOF LEVEL - MECHANICAL
M2.00 1/8" = 1'-0"

GENERAL NOTES

- A. REFER TO M0.00 FOR GENERAL NOTES & SYMBOLS.
- B. REFER TO M3.00 FOR MECHANICAL DETAILS.
- C. REFER TO M4.00 FOR CONTROLS SEQUENCES AND DIAGRAMS.
- D. REFER TO M5.00 AND M5.01 FOR MECHANICAL SCHEDULES.
- E. BRANCH DUCT SIZES TO AIR TERMINALS SHALL MATCH NECK SIZE OF GRILLE, REGISTER, OR DIFFUSER UNLESS NOTED OTHERWISE.
- F. MAXIMUM FLEXIBLE DUCT LENGTH TO DIFFUSERS SHALL BE 67', WITH MAXIMUM OF ONE 90 DEGREE ELBOW.

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MECHANICAL ROOF PLAN

PROJECT #	DATE
22011	08.22.2022

M2.00

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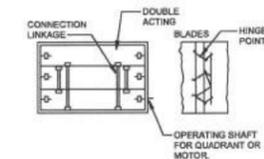
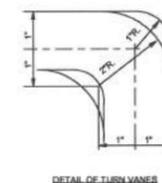
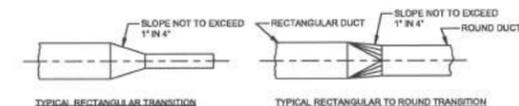
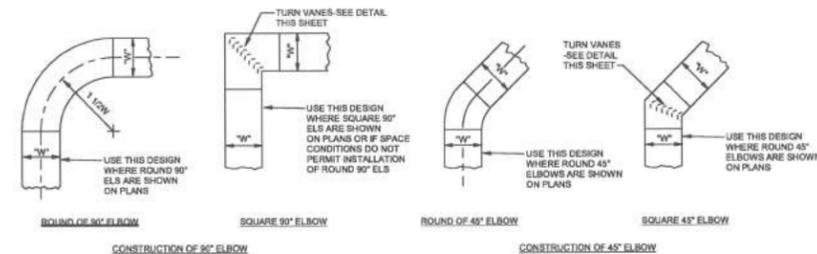
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MECHANICAL DETAILS

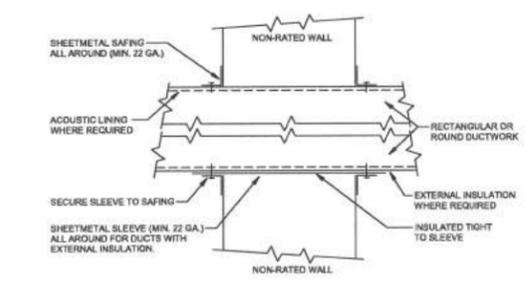
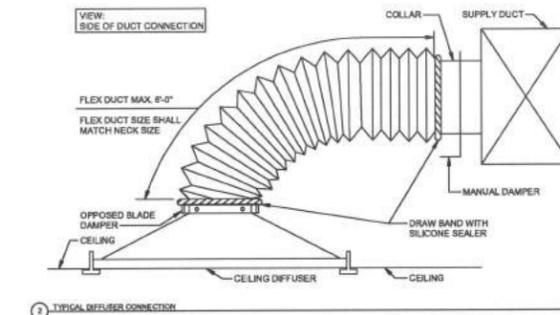
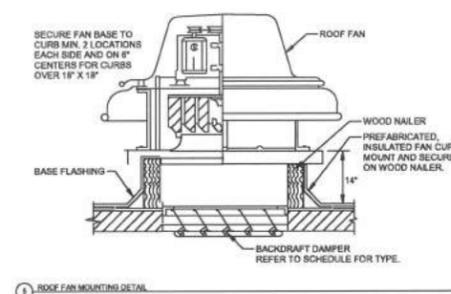
PROJECT #	DATE
22011	08.22.2022

M3.00



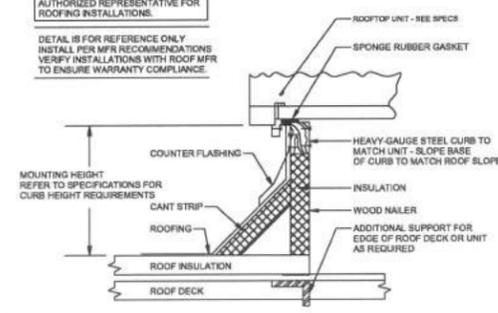
- INSTALLATION NOTES**
- ALL DUCTS SHALL BE CONSTRUCTED AND ERECTED IN A NEAT AND WORKMAN LIKE MANNER.
 - DUCTS SHALL BE CONSTRUCTED OF THE WEIGHTS, GAGES AND MATERIAL AS SPECIFIED.
 - THE DIMENSION SHOWN FOR ALL DUCTS SHOWN IN PLAN GIVE THE WIDTH FIRST AND THEN THE HEIGHT.
 - DUCT RISERS SHOULD BE SUPPORTED BY ANGLES AT EVERY FLOOR.
 - TURNING VANES SHALL BE INSTALLED IN ALL ABRUPT ELBOWS TO PREVENT TURBULANCE.
 - DUCTS SHALL BE SECURELY ATTACHED TO THE BUILDING CONSTRUCTION IN AN APPROVED MANNER.
 - DIVERGING TRANSITION PIECES SHALL BE MADE AS GRADUAL AS POSSIBLE.
 - INSTALL FIRE DAMPERS IN ACCORDANCE TO ALL APPLICABLE REQUIREMENTS INCLUDING UL 555.
 - ACCESS PANELS SHALL BE PLACED BEFORE AND/OR AFTER EQUIPMENT INSTALLED IN THE DUCT.
 - DUCT AREA SHALL NOT BE DECREASED MORE THAN 10 PERCENT WHEN OBSTRUCTIONS CANNOT BE AVOIDED, AND THEN A STREAMLINED FITTING SHALL BE USED.
 - FLEXIBLE FABRIC CONNECTIONS (OR EQUAL) SHALL BE USED ON BOTH INLETS AND OUTLETS OF ALL FANS.
 - JOINTS AND SEAMS OF SUPPLY DUCTS SHALL BE FASTENED SECURELY AND MADE AIR TIGHT.

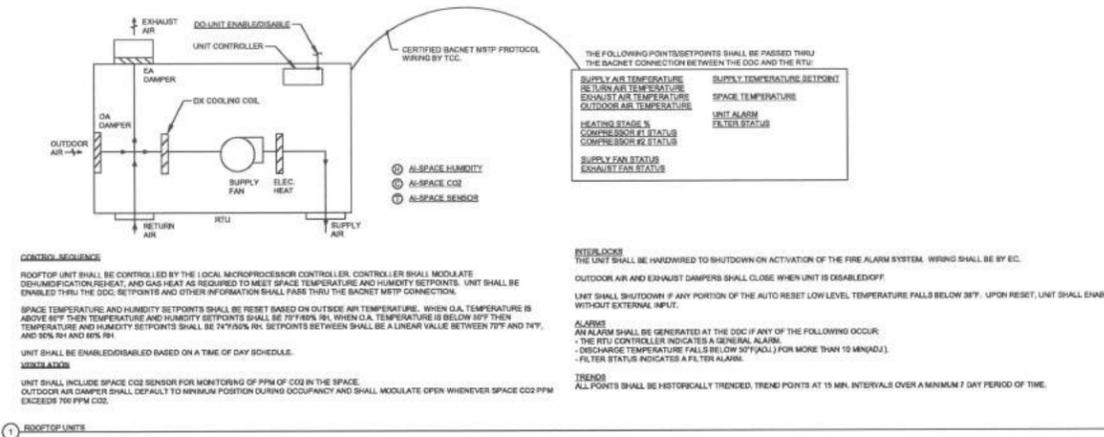
1 DETAILS OF THE LOW VELOCITY DUCT LAYOUT



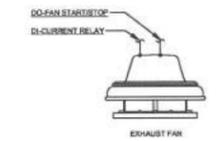
ALL WORK RELATED TO ROOF REPAIR OR PATCHING TO BE COMPLETED BY AUTHORIZED REPRESENTATIVE FOR ROOFING INSTALLATIONS.

DETAIL IS FOR REFERENCE ONLY. INSTALL PER MFR RECOMMENDATIONS. VERIFY INSTALLATIONS WITH ROOF MFR TO ENSURE WARRANTY COMPLIANCE.





1. ROOFTOP UNITS

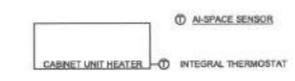


CONTROL SEQUENCE
 EXHAUST FANS SHALL BE CONTROLLED THRU THE DDC SYSTEM. FANS SHALL BE ENABLED/DISABLED BASED ON A TIME OF DAY SCHEDULE. FAN STATUS SHALL BE MONITORED THRU A CURRENT RELAY.

ALARMS
 AN ALARM SHALL BE GENERATED AT THE DDC IF FAN STATUS IS NOT PROVIDED.

TRENDS
 ALL POINTS SHALL BE HISTORICALLY TRENDED. TREND POINTS AT 15 MIN. INTERVALS OVER A MINIMUM 7 DAY PERIOD OF TIME.

2. EXHAUST FAN CONTROL

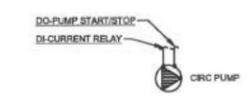


CONTROL SEQUENCE
 CABINET UNIT HEATERS SHALL BE CONTROLLED BY INTEGRAL THERMOSTATS. SPACE TEMPERATURE SHALL BE MONITORED AND CONTROLLED TO 60°F (ADJ.).

ALARMS
 AN ALARM SHALL BE GENERATED AT THE DDC IF THE SPACE TEMPERATURE FALLS BELOW 45°F (ADJ.) FOR MORE THAN 10 MIN (ADJ.).

TRENDS
 ALL POINTS SHALL BE HISTORICALLY TRENDED. TREND POINTS AT 15 MIN. INTERVALS OVER A MINIMUM 24 HOUR 7 DAY PERIOD OF TIME.

3. CABINET UNIT HEATER (CUH) CONTROL

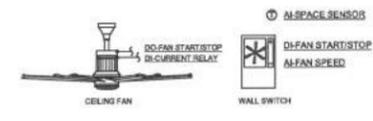


CONTROL SEQUENCE
 CIRCULATION PUMP (CP-1) SHALL BE CONTROLLED THRU THE DDC SYSTEM. PUMP SHALL RUN DURING THE OCCUPIED HOURS AND OFF DURING UNOCCUPIED HOURS. STATUS SHALL BE MONITORED THRU A CURRENT RELAY. COORDINATE WITH OWNER ON FINAL OCCUPANCY SCHEDULE.

ALARMS
 AN ALARM SHALL BE GENERATED AT THE DDC IF PUMP STATUS IS NOT PROVIDED.

TRENDS
 ALL POINTS SHALL BE HISTORICALLY TRENDED. TREND POINTS AT 15 MIN. INTERVALS OVER A MINIMUM 90 DAY PERIOD OF TIME.

4. DOMESTIC CIRCULATION PUMP - DDC



CONTROL SEQUENCE
 CEILING FANS SHALL BE CONTROLLED THRU THE DDC SYSTEM. FAN SHALL START AND OPERATE AT 10% SPEED (ADJ.) WHEN SPACE TEMPERATURE READS 73°F (ADJ.) AND INCREASE LINEARLY TO 80% SPEED (ADJ.) WHEN SPACE TEMPERATURE REACHES 80°F (ADJ.). CEILING FAN SHALL ALSO BE CONTROLLED WITH LOCAL WIRED WALL SWITCH. LOCAL SWITCH CONTROL WILL TAKE PRIORITY OVER DDC CONTROL.

FANS SHALL BE ENABLED/DISABLED BASED ON A TIME OF DAY SCHEDULE. FAN STATUS SHALL BE MONITORED THRU A CURRENT RELAY.

ALARMS
 AN ALARM SHALL BE GENERATED AT THE DDC IF FAN STATUS IS NOT PROVIDED.

TRENDS
 ALL POINTS SHALL BE HISTORICALLY TRENDED. TREND POINTS AT 15 MIN. INTERVALS OVER A MINIMUM 7 DAY PERIOD OF TIME.

5. CEILING FAN CONTROL

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NO	DESCRIPTION	DATE

MECHANICAL CONTROLS

PROJECT # 22011 DATE 08.22.2022

M4.00

RTU SCHEDULE - PART 1

NOTES:

1. PROVIDE UNIT WITH SINGLE POINT POWER CONNECTION, POWERED CONVENIENCE OUTLET, AND NON-FUSED DISCONNECT.
2. REFER TO CONTROL DRAWINGS FOR ADDITIONAL DETAILS.
3. REFER TO SPECIFICATIONS FOR FILTER TYPES AND SIZE.
4. UNIT EXHAUST AND SUPPLY FANS ARE VARIABLE SPEED. PROVIDE FAN MOTORS RATED FOR ECM/VFD APPLICATION.
5. MINIMUM CFM FOR FANS TO BE 50% OF MAXIMUM, TAB TO VERIFY MIN VFD SETTINGS. TAB TO ADJUST EXHAUST FAN VFD OFFSET AND SYSTEM DAMPERS TO MAINTAIN A SLIGHT POSITIVE BUILDING PRESSURE (0.05 IN W.C.).
6. PROVIDE UNIT WITH OUTDOOR AND EXHAUST LOW-LEAK DAMPERS; DAMPERS TO BE HARDWIRED TO CLOSE WHEN UNIT IS OFF.
7. UNIT SIZED FOR 100% ENTHALPY ECONOMIZER. O.A. DAMPER TO MODULATE BASED ON CO2 MEASUREMENT. REFER TO CONTROL DRAWINGS FOR DEMAND CONTROL OUTDOOR AIR VENTILATION.
8. PROVIDE UNIT WITH PREMIUM EFFICIENCY FAN MOTORS.
9. UNIT TO OPERATE AS VARIABLE SPEED, SINGLE ZONE, AIR HANDLING UNIT. REQUIRES ZONE SENSOR. REFER TO CONTROL DRAWINGS FOR DETAILS.
10. PROVIDE UNIT WITH PREMANUFACTURED ROOF CURB, BOTTOM OF UNIT TO MINIMUM 14-INCHES ABOVE TOP OF ROOFING. VERIFY & COORDINATE WITH ROOF CONSTRUCTION AND INSULATION.
11. PROVIDE UNIT WITH FULL ECONOMIZER.
12. PROVIDE FACTORY DIGITAL DISPLAY PROGRAMMABLE ZONE SENSOR.
13. PROVIDE UNIT WITH CO2 SENSOR AND DEMAND CONTROL VENTILATION PROGRAMMING.

REFERENCE										SUPPLY FAN				RETURN / EXHAUST FAN				HEAT PUMP (YES / NO)
ID TAG	MANUFACTURER	# MODEL	SERVES	WEIGHT (LBS)	HEIGHT (IN)	WIDTH (IN)	LENGTH (IN)	LOCATION	FAN (CFM)	FAN ESP (IN. W.C.)	FAN MOTOR SIZE (HP)	FAN OPERATING POWER (BHP)	FAN MOTOR (QUANTITY)	AIRFLOW (CFM)	ESP (IN. W.C.)	MOTOR SIZE (HP)	OPERATING POWER (BHP) (QUANTITY)	NOMINAL SIZE (TDNS)
RTU-1	DAIKIN	DPS003	CLASSROOM 102	1394	41	87	85	LOW ROOF	1125	2	0.75		1	1125	1	0.75		3
RTU-2	DAIKIN	DPS003	CLASSROOM 103	1394	41	87	85	LOW ROOF	1125	2	0.75		1	1125	1	0.75		3
RTU-3	DAIKIN	DPS005	WEIGHT ROOM 107	1422	41	87	85	LOW ROOF	1875	2	1		1	1875	1	1		5

RTU SCHEDULE - PART 2

REFERENCE	COOLING PERFORMANCE										HEATING PERFORMANCE				ELECTRICAL DATA				Notes			
	ID TAG	TYPE (DX CHILLED H2O)	REFRIGERANT	EFFICIENCY (EER)	AMBIENT AIR TEMP (DB) °F	EAT (DB) °F	EAT (WB) °F	LAT (DB) °F	LAT (WB) °F	NET TOTAL CAPACITY (MBH)	NET SENSIBLE CAPACITY (MBH)	NUMBER OF COMPRESSORS	1ST STAGE COMPRESSOR TYPE	TYPE	CONTROL	EAT DB (°F)	LAT DB (°F)	ELECTRIC COIL (KW)		VOLTAGE (V)	PHASE	MCA (A)
RTU-1	DX	R-410A	13.5	86	77.3	64.2	56.1	56	36	0	1	SCROLL	ELEC	SCR	51.6	85	12	460	3	0	0	1 THRU 13
RTU-2	DX	R-410A	13.5	86	77.3	64.2	56.1	56	36	0	1	SCROLL	ELEC	SCR	51.6	85	12	460	3	0	0	1 THRU 13
RTU-3	DX	R-410A	13	86	77.3	64.2	56.1	56	60	0	1	SCROLL	ELEC	SCR	63.3	85	12	460	3	0	0	1 THRU 12

FAN SCHEDULE

NOTES:

1. PROVIDE UNIT WITH SINGLE POINT POWER CONNECTION AND DISCONNECT. EC TO PROVIDE DISCONNECT.
2. REFER TO CONTROL DRAWINGS FOR ADDITIONAL DETAILS.
3. PROVIDE MINIMUM 14" ROOF CURB. DISTANCE MEASURED FROM BOTTOM OF FAN BASE TO TOP OF ROOF.

REFERENCE										ELECTRICAL				NOTES					
ID TAG	MANUFACTURER	MODEL #	SERVES	WEIGHT (LBS)	HEIGHT (IN)	WIDTH (IN)	LENGTH (IN)	LOCATION	AIRFLOW (CFM)	ESP (IN. W.C.)	FAN SPEED (RPM)	BELT/DIRECT	SOUND LEVEL (dBA)		DAMPER TYPE	MOTOR SIZE (HP)	POWER (WATTS)	VOLTAGE (V)	PHASE
EF-1	GREENHECK	G-70-VG	PHASE 1 RESTROOMS	20	10	19	19	LOW ROOF	150	1	1367	DIRECT	42	GRAVITY	0.066667	0	120	1	1, 2, 3
CF-3	BIG ASS FANS	MK-181-06	WEIGHT ROOM 107	36	13.5	72	0	SEE PLANS	13600	0	140	DIRECT	35	N/A	0	42	120	1	1, 2
CF-4	BIG ASS FANS	MK-181-06	WEIGHT ROOM 107	36	13.5	72	0	SEE PLANS	13600	0	140	DIRECT	35	N/A	0	42	120	1	1, 2
CF-1	BIG ASS FANS	MK-181-06	WEIGHT ROOM 107	36	13.5	72	0	SEE PLANS	13600	0	140	DIRECT	35	N/A	0	42	120	1	1, 2
CF-2	BIG ASS FANS	MK-181-06	WEIGHT ROOM 107	36	13.5	72	0	SEE PLANS	13600	0	140	DIRECT	35	N/A	0	42	120	1	1, 2

CABINET UNIT HEATER SCHEDULE

NOTES:

1. PROVIDE UNIT WITH INTEGRAL THERMOSTAT AND DISCONNECT.
2. UNIT COLOR TO BE SELECTED BY ARCHITECT FROM MANUFACTURER'S STANDARD AND CUSTOM COLOR CHART.
3. PROVIDE UNIT WITH THROWAWAY 1" FILTERS.
4. REFER TO CONTROLS DRAWINGS FOR SEQUENCES.

REFERENCE										ELECTRICAL				NOTES
ID TAG	MANUFACTURER	# MODEL	SERVES	WEIGHT (LBS)	HEIGHT (IN)	WIDTH (IN)	LENGTH (IN)	TYPE (WALL SURFACE, RECESSED)	HEATING (ELECTRIC / HEATED WATER)	POWER (KW)	VOLTAGE (V)	PHASE	FLA (A)	
CUH-1	KING	LPWA	VESTIBULE 101	24	24	13	4	RECESSED	ELECTRIC	1.25	120	1	23	1 THRU 4
CUH-2	KING	LPWA	FIRE SPRINKLER 112	24	24	13	4	RECESSED	ELECTRIC	1.25	120	1	23	1 THRU 4
CUH-3	KING	LPWA	MEP 110	24	24	13	4	RECESSED	ELECTRIC	1.25	120	1	23	1 THRU 4
CUH-4	KING	LPWA	STORAGE 108	24	24	13	4	RECESSED	ELECTRIC	1.25	120	1	23	1 THRU 4
CUH-5	KING	LPWA	VESTIBULE 111	24	24	13	4	RECESSED	ELECTRIC	1.25	120	1	23	1 THRU 4

SPLIT SYSTEM OUTDOOR UNIT SCHEDULE

NOTES:

1. DISCONNECT SHALL BE PROVIDED / INSTALLED BY E.C.
2. UNIT TO BE MOUNTED ON PREFABRICATED ROOF CURB PER MFR RECOMMENDATIONS; MINIMUM 14 INCHES ABOVE TOP OF ROOFING. VERIFY & COORDINATE WITH ROOF CONSTRUCTION AND INSULATION.
3. REFER TO SPLIT SYSTEM INDOOR UNIT SCHEDULE FOR CAPACITY RATING CONDITIONS.

REFERENCE										ELECTRICAL				NOTES		
ID TAG	MANUFACTURER	MODEL #	SERVES	WEIGHT (LBS)	HEIGHT (IN)	WIDTH (IN)	LENGTH (IN)	LOCATION	COOLING CAPACITY - RATED (BTU/H)	REFRIGERANT	# COMPRESSORS	SEER	VOLTAGE (V)		PHASE	MCA (A)
SSO-1	DAIKIN	RKB12AX VJU	MEP 109	57	22	26	11	HIGH ROOF	12000	R-410A	1	17	208	1	7.7	1, 2, 3

SPLIT SYSTEM INDOOR UNIT SCHEDULE

NOTES:

1. PROVIDE WITH REMOTE WALL MOUNTED THERMOSTAT. WIRING BY M.C.
2. INDOOR UNIT RECEIVES POWER FROM OUTDOOR UNIT BY INTERCONNECTED WIRING PROVIDED WITH UNIT, WIRING INSTALLATION AND DISCONNECT BY E.C.
3. COOLING RATED CAPACITY IS BASED ON THE FOLLOWING CONDITIONS. INDOOR: 80°F/67°F, OUTDOOR: 95°F/75°F
4. HEATING RATED CAPACITY IS BASED ON THE FOLLOWING CONDITIONS. INDOOR: 80°F/67°F, OUTDOOR: 20°F
5. PROVIDE FILTER WITH UNIT.
6. UNIT IS COOLING ONLY.

REFERENCE										ELECTRICAL				NOTES
ID TAG	MANUFACTURER	MODEL #	SERVES	WEIGHT (LBS)	HEIGHT (IN)	WIDTH (IN)	LENGTH (IN)	LOCATION	MAX UNIT (CFM)	COOLING CAPACITY - RATED (BTU/H)	VOLTAGE (V)	PHASE	MCA (A)	
SSI-1	DAIKIN	FTKB12AXVJU	MEP 109	20	12	36	8	MEP 109	360	12000	208	1	7.7	1 THRU 6

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MECHANICAL SCHEDULES

PROJECT # 22011 DATE 08.22.2022

M5.00

DUCT INSULATION SCHEDULE					
DUCT TYPE	HVAC EQUIPMENT	DUCT DETAILS	PRESSURE CLASS	INSULATION TYPE	INSULATION THICKNESS
SUPPLY AIR & VENTILATION AIR DUCT	FROM HEAT PUMPS, FAN COILS	RECTANGULAR GALVANIZED STEEL	2 INCH WG	LINED	1 INCH
		EXPOSED SPIRAL / OVAL GALVANIZED STEEL	2 INCH WG	DOUBLE WALL INSULATED	1 INCH
		SPIRAL / OVAL GALVANIZED STEEL	2 INCH WG	WRAPPED MINERAL FIBER	1-1/2 INCH
SUPPLY AIR & VENTILATION AIR DUCT	FROM AIR HANDLING UNITS, ROOF TOP UNITS, DEDICATED OUTDOOR AIR UNITS	RECTANGULAR GALVANIZED STEEL	+3 INCH WG	LINED	1 INCH
		EXPOSED SPIRAL / OVAL GALVANIZED STEEL	+3 INCH WG	DOUBLE WALL INSULATED	1 INCH
		SPIRAL / OVAL GALVANIZED STEEL	+3 INCH WG	WRAPPED MINERAL FIBER	1-1/2 INCH
RETURN AIR DUCT	TO HEAT PUMPS, FAN COILS, AIR HANDLING UNITS, ROOF TOP UNITS, DEDICATED OUTDOOR AIR UNITS	RECTANGULAR GALVANIZED STEEL	-2 INCH WG	LINED	1 INCH
		EXPOSED SPIRAL / OVAL GALVANIZED STEEL	-2 INCH WG	DOUBLE WALL INSULATED	1 INCH
		SPIRAL / OVAL GALVANIZED STEEL	-2 INCH WG	WRAPPED MINERAL FIBER	1-1/2 INCH
OUTDOOR AIR DUCT FROM EXTERIOR TO UNIT	TO AIR HANDLING UNITS, DEDICATED VENTILATION UNITS, ERVS, HEAT PUMPS, FAN COILS	RECTANGULAR GALVANIZED STEEL	+3 INCH WG	LINED	1 INCH
		EXPOSED SPIRAL / OVAL GALVANIZED STEEL	+3 INCH WG	DOUBLE WALL INSULATED	1 INCH
		ROUND / OVAL GALVANIZED STEEL	+3 INCH WG	WRAPPED MINERAL FIBER	1-1/2 INCH
RELIEF / EXHAUST AIR DUCT	FROM AIR HANDLING UNITS, DEDICATED VENTILATION UNITS, ROOF TOP UNITS	RECTANGULAR GALVANIZED STEEL	-2 INCH WG	LINED	1 INCH
EXHAUST AIR DUCT	FROM EXHAUST FANS	NA	NA	NA	NA
TRANSFER DUCT	NA	RECTANGULAR GALVANIZED STEEL	-1/2 INCH WG	LINED	NA
FLEXIBLE DUCTS (UL-181, CLASS 1)	TO DIFFUSERS	2-PLY VINYL HELICAL STEEL WIRE W/VAPOUR BARRIER	+1" INCH WG	FIBROUS-GLASS INSULATION (R-4)	1-3/4 INCH

NOTES:
1. ALL DUCTWORK SHALL BE CONSTRUCTED AND ERRECTED IN ACCORDANCE WITH 2019 OREGON MECHANICAL SPECIALTY CODE.

VENTILATION SCHEDULE											
PRIMARY EQUIPMENT	ROOM NAME	OCCUPANCY CATEGORY	ZONE FLOOR AREA (SF) (AZ)	OCCUPANT DENSITY (PEOPLE/1000SF)	DEFAULT OCCUPANCY (PEOPLE)	DESIGN OCCUPANCY (PEOPLE)	PEOPLE OUTDOOR AIRFLOW RATE IN BREATHING ZONE (RP CFM/PERSON)	AREA OUTDOOR AIRFLOW RATE IN BREATHING ZONE (RA CFM/SF)	TOTAL OUTDOOR AIRFLOW RATE IN BREATHING ZONE (CFM) (VBZ)	ZONE AIR DISTRIBUTION EFFECTIVENESS (Ez)	ZONE OUTDOOR AIRFLOW RATE (CFM) (VOZ)
RTU-1	CLASSROOM 102	Classrooms (age 9 plus)	812	36	31.9	32	10	0.12	429.44	0.9	540
RTU-2	CLASSROOM 103	Classrooms (age 9 plus)	813	36	32.0	32	10	0.12	429.96	0.9	540
RTU-3	WEIGHT ROOM 108	Health ck./weight rooms	1458	10	14.6	15	20	0.06	387.48	0.9	485

NOTE:
THIS CALCULATION IS BASED ON CHAPTER 4 OF THE IMC, SECTION 403.3.1.1.2.1 FOR SINGLE ZONE SYSTEMS

GRILLES REGISTERS AND DIFFUSERS SCHEDULE								
REFERENCE	MATERIAL	MARGIN (IN)	INLET (IN)	FACE (IN)	DAMPER	MFR	MODEL	NOTES
CD-1 (CEILING DIFFUSER)	STEEL	LAY-IN	SEE DWG	24X24	YES	TITUS	OMN	1,2,3
SG-1 (SUPPLY REGISTER)	ALUMINUM	1 1/4"	SEE DWG	INLET +2"	EXTRACTOR	TITUS	S300FL	2,4,5
RG-1 (RETURN GRILLE)	ALUMINUM	1 1/4"	SEE DWG	24X24	NO	TITUS	PAR-AA	1,2
ER-1 (EXHAUST REGISTER)	ALUMINUM	1 1/4"	SEE DWG	INLET +2"	YES	TITUS	S30FL	1,2,3

NOTES:
1. REFER TO ARCH DRAWINGS FOR FINAL CEILING TYPE FOR MOUNTING TYPE.
2. PROVIDE WITH WHITE FINISH. COORDINATE COLOR SELECTION WITH ARCHITECT.
3. DAMPER TO BE OPPOSED BLADE.
4. PROVIDE WITH SCOOP EXTRACTOR.
5. SURFACE / DUCT MOUNT.

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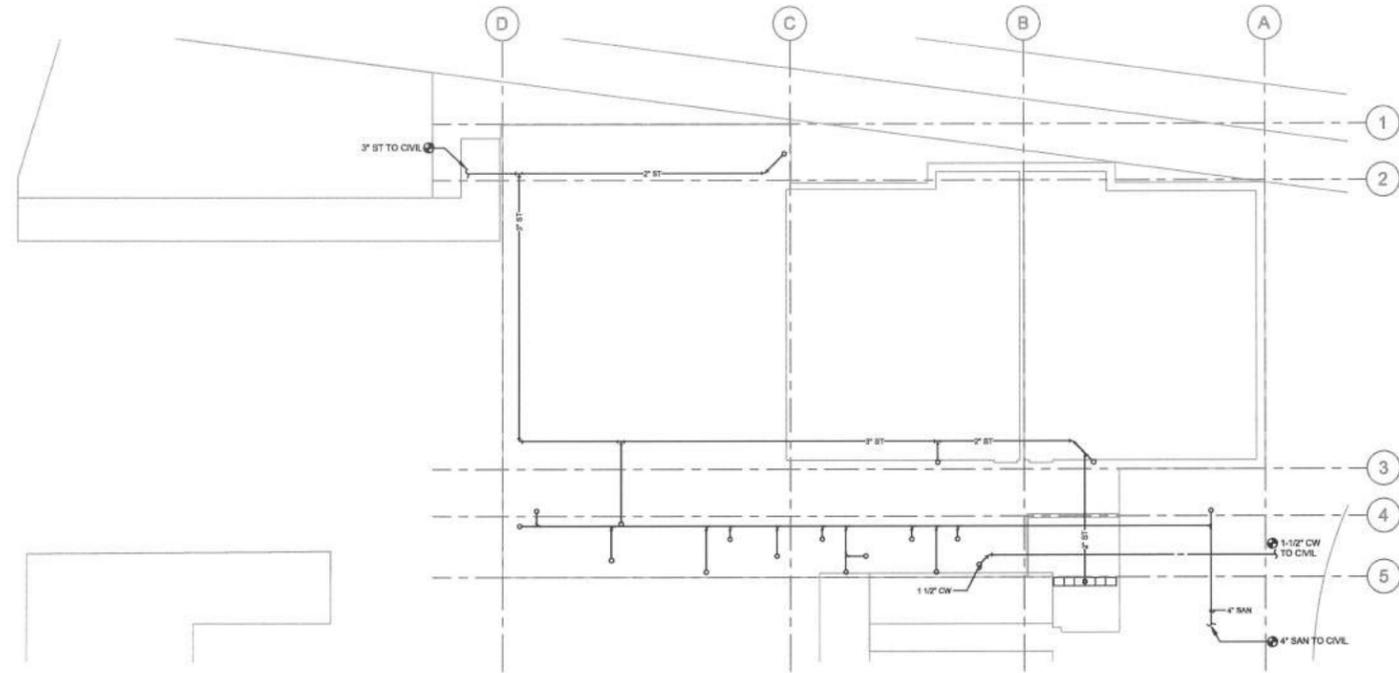
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MECHANICAL
SCHEDULES

PROJECT # DATE
22011 08.22.2022

M5.01



1 FOUNDATION PLAN - PLUMBING - PHASE 1
 P1.00
 1/8" = 1'-0"



GENERAL NOTES:

- A. REFER TO M0.00 FOR GENERAL NOTES & SYMBOLS.
- B. REFER TO P3.JX AND P3.JX FOR PLUMBING DETAILS.
- C. REFER TO P5.JX AND P5.JX FOR PLUMBING SCHEDULES.
- D. REFER TO PLUMBING FIXTURE ROUGH-IN SCHEDULE FOR BRANCH PIPE SIZING TO INDIVIDUAL PLUMBING FIXTURES.
- E. COORDINATE PIPE ROUTING WITH DUCTWORK. DUCTWORK HAS PRIORITY OVER PRESSURE PIPING. [ROUTE PIPING WITHIN JOIST SPACES WHERE POSSIBLE.]
- F. BRANCH PIPING SHALL BE TAKEN OFF THE TOP OF MAIN PIPING.

KEYNOTES Ⓞ

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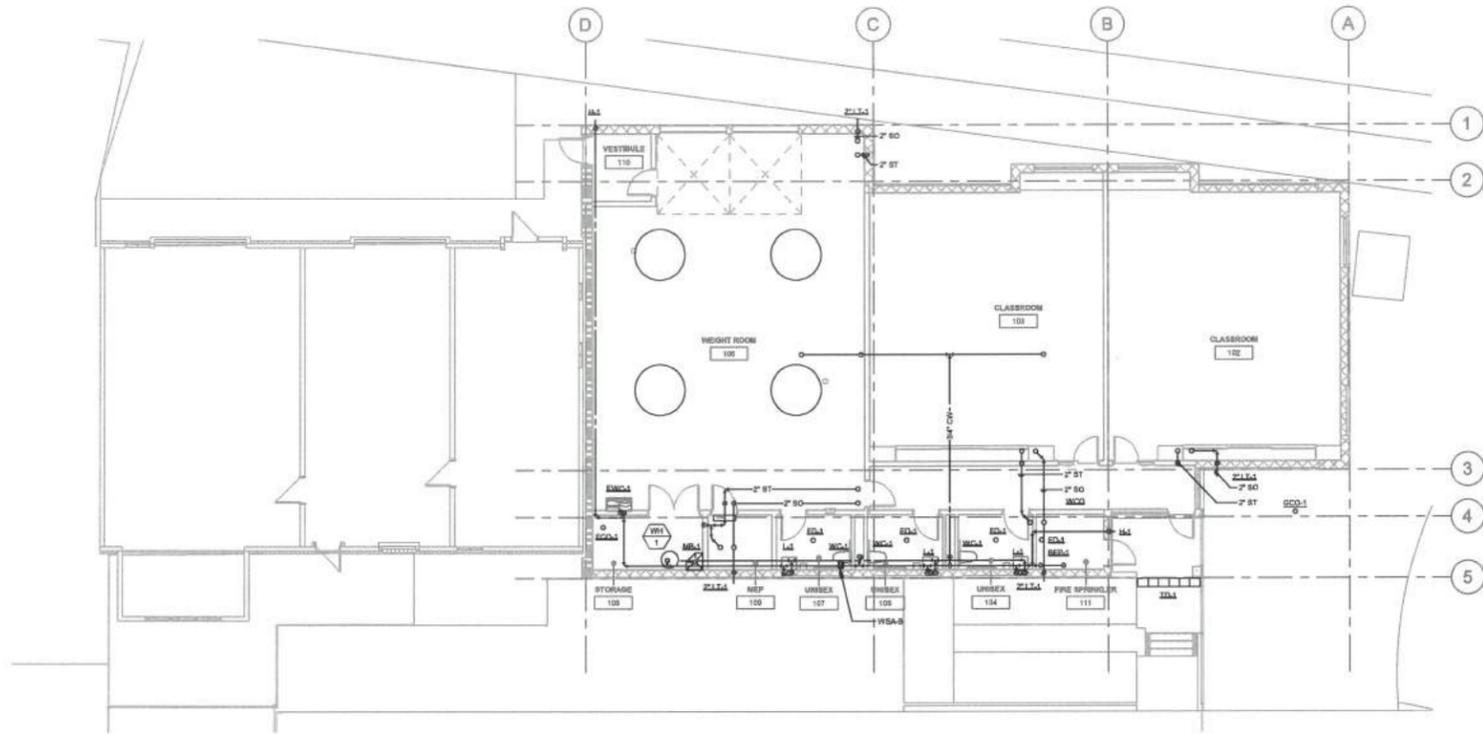
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NO	DESCRIPTION	DATE

PLUMBING FOUNDATION PLAN

PROJECT #	DATE
22011	08.22.2022

P1.00



1 GROUND LEVEL - PLUMBING - PHASE 1
 P1.01 1/8" = 1'-0"



GENERAL NOTES:

- A. REFER TO M0.00 FOR GENERAL NOTES & SYMBOLS.
- B. REFER TO P3.XX AND P3.XX FOR PLUMBING DETAILS.
- C. REFER TO P5.XX AND P5.XX FOR PLUMBING SCHEDULES.
- D. REFER TO PLUMBING FIXTURE ROUGH-IN SCHEDULE FOR BRANCH PIPE SIZING TO INDIVIDUAL PLUMBING FIXTURES.
- E. COORDINATE PIPE ROUTING WITH DUCTWORK. DUCTWORK HAS PRIORITY OVER PRESSURE PIPING. [ROUTE PIPING WITHIN JOIST SPACES WHERE POSSIBLE.]
- F. BRANCH PIPING SHALL BE TAKEN OFF THE TOP OF MAIN PIPING.

KEYNOTES ⓪

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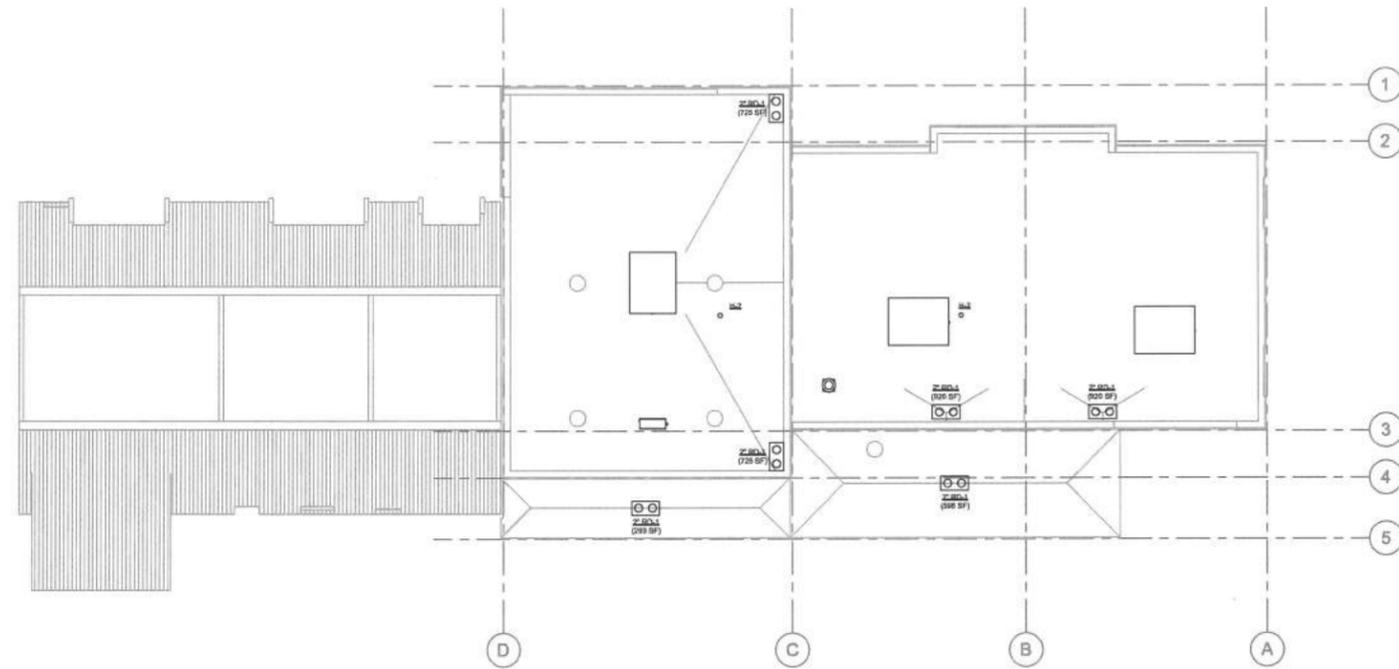
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PLUMBING PLAN

PROJECT #	DATE
22011	08.22.2022

P1.01



1 ROOF LEVEL - PLUMBING
P1.02
1/8" = 1'-0"



GENERAL NOTES:

- A. REFER TO M0.00 FOR GENERAL NOTES & SYMBOLS.
- B. REFER TO P3.XX AND P3.XX FOR PLUMBING DETAILS.
- C. REFER TO P9.XX AND P9.XX FOR PLUMBING SCHEDULES.
- D. REFER TO PLUMBING FIXTURE ROUGH-IN SCHEDULE FOR BRANCH PIPE SIZING TO INDIVIDUAL PLUMBING FIXTURES.
- E. COORDINATE PIPE ROUTING WITH DUCTWORK. DUCTWORK HAS PRIORITY OVER PRESSURE PIPING. [ROUTE PIPING WITHIN JOIST SPACES WHERE POSSIBLE.]
- F. BRANCH PIPING SHALL BE TAKEN OFF THE TOP OF MAIN PIPING.

KEYNOTES ⓪

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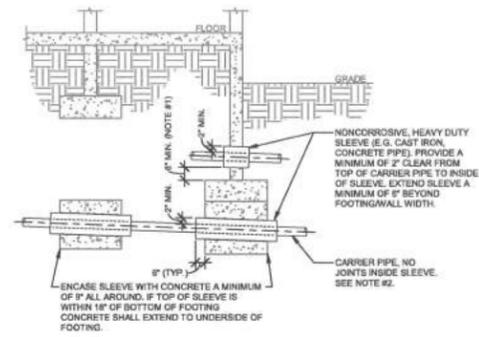
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PLUMBING ROOF PLAN

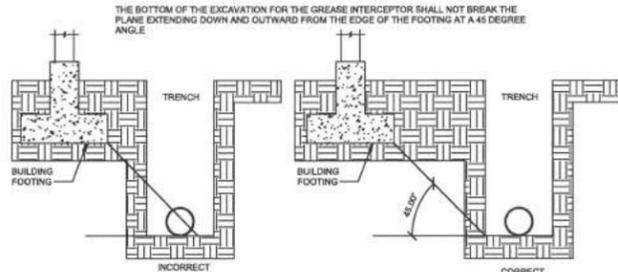
PROJECT #	DATE
22011	08.22.2022

P1.02

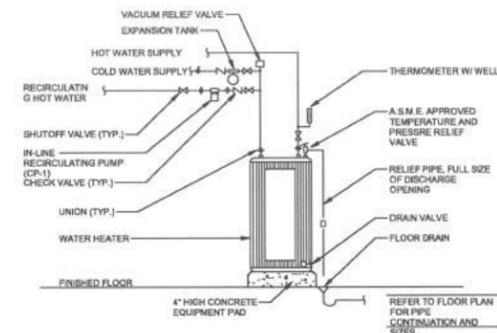


- NOTES**
- STEP FOOTING DOWN AS REQUIRED TO MAINTAIN 6" MINIMUM DIMENSION
 - PROVIDE A LENGTH OF DUCTILE IRON PIPE WHERE UTILITY PASSES UNDER OR THROUGH FOOTINGS/FOUNDATION WALLS. USE PVC IF CARRIER PIPE IS PVC.

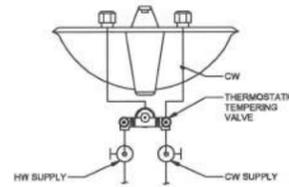
11 PIPE UNDER FOOTING DETAIL



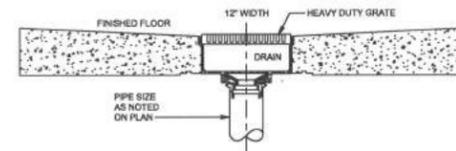
12 SEWER INSIDE AND OUTSIDE THE ANGLE OF REPOSE DETAIL



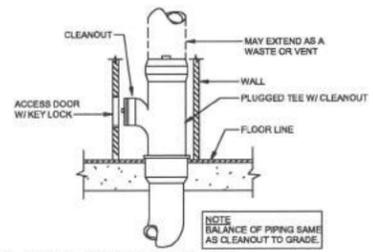
6 ELECTRIC WATER HEATER DETAIL



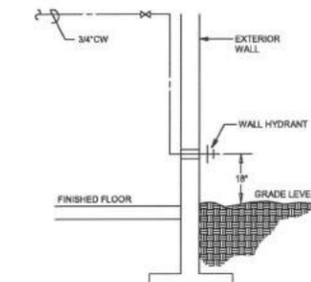
7 POINT-OF-USE MIXING VALVE DETAIL



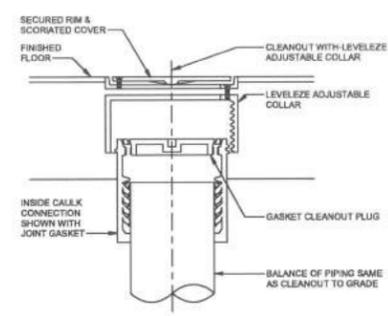
8 TRENCH DRAIN DETAIL



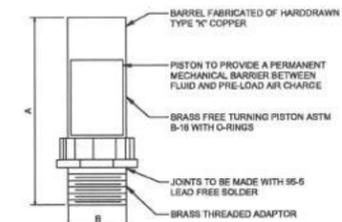
9 WALL CLEANOUT DETAIL



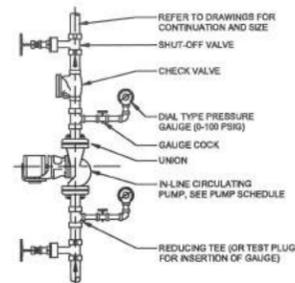
10 WALL HYDRANT DETAIL



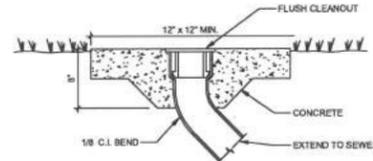
1 FLOOR CLEANOUT DETAIL



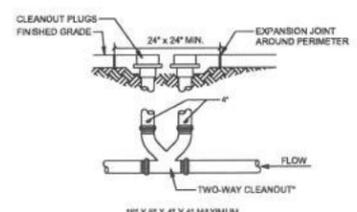
2 WATER SHOCK ARRESTOR DETAIL



3 CIRCULATING PUMP DETAIL



4 CLEANOUT AT GRADE DETAIL



5 TWO-WAY CLEANOUT DETAIL

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PLUMBING DETAILS

PROJECT # 22011 DATE 08.22.2022

P3.00

WATER HEATER	
REFERENCE	WH-1
MANUFACTURER	AO SMITH
MODEL #	DEL-265-4
SERVES	RESTROOMS
DIMENSIONS (DIAM, HEIGHT)	22", 22"
GALLONS	20
RECOVERY GPH 100F RISE	17
HEATER SIZE (KW)	4
THERMAL EFFICIENCY	100%
VOLTAGE/PH	208/1
NOTES	1, 2, 3

- NOTES:
1. PROVIDE WITH ASME RATED TAP RELIEF VALVE
2. UNIT TO MEET REQUIREMENTS OF CPSS 2021
3. WATER HEATER TO BE ASME RATED

PLUMBING FIXTURE SCHEDULE				
REFERENCE	MFR	MODEL	DESCRIPTION	TRIM
BFP-1	WATTS	LF007	BACKFLOW PREVENTER - LEAD FREE DOUBLE CHECK VALVE ASSEMBLY TYPE, BRONZE CONSTRUCTION, SIZE SAME AS CONNECTED PIPE, NON-CORROSIVE INTERNAL PARTS, STAINLESS STEEL SPRINGS, TWO POSITIVE SEATING CHECK MODULES WITH CAPTURED SPRINGS AND RUBBER SEAT DISCS, REPLACEABLE CHECK MODULE SEATS AND SEAT DISC, SERVICE OF ALL INTERNAL COMPONENTS THROUGH A SINGLE BRONZE OR STAINLESS STEEL ACCESS COVER SECURED WITH STAINLESS STEEL BOLTS - SERVICEABLE WITHOUT...	NA
EW-1 (BI-LEVEL) (INCLUDES BOTTLE FILLER)	ELKAY	EZ3TLWLSLK EZ3TLWWSK	ADA COMPLIANT, WALL HUNG BI-LEVEL ELECTRIC WATER COOLER WITH FRONT AND SIDE PUSHBAR ACTIVATION, STAINLESS STEEL WRAPPER AND BASIN WITH INTEGRAL GRID DRAIN, SAFETY BUBBLER, 8 GPH OF HOT WATER AT 90°F AMBIENT TEMPERATURE AND 8°F INLET WATER, 115V COMPRESSOR PROVIDED WITH ELECTRIC CORD AND PLUG, ADA COMPLIANT MOUNTING HEIGHTS, ACCESSORY APRON, PROVIDES MANDATORY 27" FLOOR TO UNDERSIDE REQUIREMENTS - THERMO-FORMED TEXTURED ABS PLASTIC, EQUIPPED WITH BOTTOM COVER PLATE, DRAIN & TRAP ASSEMBLY, ADJUSTABLE THERMOSTAT, MOUNTING ACCESSORIES, AND ANGLE STOPS. UNIT SHALL CONFORM TO ANSI #1 & 372.	ELKAY "EZ420", INTEGRAL ADA BOTTLE FILLING STATION, ELECTRONIC SENSOR FOR NO TOUCH ACTIVATION WITH AUTOMATIC 30-SECOND SHUT-OFF TIMER. STATION SHALL PROVIDE 1.1-1.5 GPM FLOW RATE WITH LAMINAR FLOW OUTLET TO MINIMIZE SPLASHING, NO FILTER, INTEGRATED SILVER ION ANTI-MICROBIAL PROTECTION, CERTIFIED TO NSF/ANSI #2 AND #3.
FCO-1	ZURN	Z1400	ADJUSTABLE FLOOR CLEANOUT, CAST IRON BODY, TAPERED THREAD PLUG AND ROUND NICKEL BRONZE SCORATED CAST IRON HEAVY-DUTY SECURED TOP, ADJUSTABLE TO FINISHED FLOOR, OUTLET SIZE AS NOTED ON DRAWINGS.	NA
FD-1	ZURN	Z415B	CAST IRON BODY FLOOR DRAIN, TYPE "B" 6" ROUND POLISHED NICKEL BRONZE STRAINER, OUTLET SIZE AS NOTED ON DRAWINGS.	PROVIDE WITH TRAP GUARD; PROSET "TRAP GUARD", SURE SEAL "MODEL SS", OR APPROVED EQUAL.
GCO-1	ZURN	Z1474	GRADE CLEANOUT, ROUND, DURA-COATED CAST IRON, SIZE AS INDICATED, DOUBLE FLANGED HOUSING, HEAVY DUTY SECURED SCORATED DURA-COATED CAST IRON COVER, LIFTING DEVICE, BRONZE CLEANOUT PLUG WITH GAS/WATER-TIGHT SEAL.	NA
H-1 (EXTERIOR VACUUM BREAKER, WALL BOX)	WOODFORD	RB65	FREEZELESS WALL HYDRANT, BRASS VALVE BODY AND SEAT, STANDARD FINISH, NON-FERROUS METAL STEM, AUTOMATIC DRAINING, VACUUM BREAKER, 3/4" MALL HOSE THREAD, WALL CLAMP, CONCEALED IN ROUND FLUSH MOUNTED LOCKABLE WALL BOX, KEY OPERATED, ASSE 1019 APPROVED AND LISTED. INSTALL AT 18" ABOVE FINISH GRADE.	NA
H-2 (ROOF HYDRANT)	WOODFORD	RHY2-MS	FREEZELESS ROOF HYDRANT, GALVANIZED PIPE CASING, ROD GUIDE, ONE PIECE VARIABLE FLOW PLUNGER WITH CUSHION TYPE SEAL, BUILT IN VENT AND DRAIN PORT DOUBLE CHECK BACKFLOW PREVENTER, HEAVY DUTY CAST IRON MOUNTING SYSTEM WITH SHIM FOR PITCH ADJUSTMENT, CAST IRON HYDRANT SUPPORT, WELL SEAL, EPDM BOOT COVER, ASSE 1092 APPROVED AND LISTED.	NA
L-1 (ADA) (WALL HUNG WITH BACKSPASH)	KOHLER	K-2005	WALL HUNG, VITREOUS CHINA LAVATORY, OVERALL DIMENSIONS 21" x 18", 4" CENTER HOLES, BACKSPASH, OVERFLOW, WALL MOUNT / PROVIDE WITH CONCEALED ARM CARRIER, ADA COMPLIANT.	DELTA "SFI-T1250", ADA COMPLIANT, BATTERY POWERED SENSOR TYPE FAUCET, WITH OFFSET GRID STRAINER AND TRAP, (TRUEBRO "102W, 195" CW, HW, AND WASTE PIPE GUARDS AND) ESCUTCHIONS. MAXIMUM FIXTURE FLOW TO BE 0.5 GPM. PROVIDE POWERS "LF480" POINT OF USE MIXING VALVE UNDER FIXTURE. MIXING VALVE MUST MEET ASSE 1070 AND UPC 2009 REQUIREMENTS. PROVIDE WITH 1/4 TURN, 3/8" BRASS STOPS.
LT-1	ZURN	Z199	LAMBS TONGUE TYPE DOWNSPOUT NOZZLE, ALL NICKEL BRONZE BODY, SIZE AS INDICATED ON DRAWINGS.	NA
MB-1 (TERRAZO - 24x24 CORNER MODEL)	FIAT	T5BC6010	CORNER MOP BASIN - PRECAST TERRAZZO, 24"x24"x12", STAINLESS STEEL INTEGRAL DRAIN WITH REMOVABLE STRAINER, 3" OUTLET, STAINLESS STEEL THRESHOLD. CAULK BETWEEN MOP BASIN AND WALL WITH SILICONE BASED CAULK. PROVIDE WITH STAINLESS STEEL SPLASH PLATE WHICH EXTENDS 8" ON EACH SIDE, MOP HANGER, HOSE AND HOSE BRACKET, AND DEEP SEAL TRAP.	ZURN "Z-541M1" OR EQUIVALENT, EXPOSED TWO HANDLE MIXING FAUCET, BRASS CONSTRUCTION, CHROME-PLATED FINISH, SINGLE RING HANDLES, 3/4" HOSE THREAD SPOUT WITH INTEGRAL VACUUM BREAKER, WALL BRACE, PAIL HOOK, INTEGRAL STOPS.
RD-1 (COMBO MAIN / OVERFLOW ROOF DRAIN)	ZURN	Z164	COMBINATION MAIN ROOF AND OVERFLOW DRAIN - CAST IRON BODY, 12" ROUND, COMBINATION MEMBRANE FLASHING CLAMP/GRAVEL GUARD, DOUBLE TOP-SET DECK PLATE, AND CAST IRON LOW SILHOUETTE DOMES. PROVIDE WITH 2" STATIC EXTENSION FOR OVERFLOW ROOF DRAIN.	NA
TD-1	TBD	-	-	-
WC-1 (WALL/ADA)	KOHLER	K-4325	WALL MOUNTED 1.6 GPF, WHITE VITREOUS CHINA, ELONGATED BOWL, SIPHON JET TOILET, BOLT CAPS, 1 1/2" TOP SPUD, ADA COMPLIANT BOWL HEIGHT.	SLOAN "8111-MC" OR APPROVED EQUAL, BATTERY POWERED, 1.6 GPF EXPOSED SENSOR OPERATED FLUSH VALVE WITH VANDAL RESISTANT CAP AND OVERRIDE BUTTON, CHURCH 2555CCT WHITE OPEN FRONT SELF-SUSTAINING HEAVY SEAT, INJECTION MOLED PLASTIC, STAINLESS STEEL POSTS, ESCUTCHEON & WAX RING.
WCO-1	ZURN	Z1446	WALL CLEANOUT TEE, GAS AND WATERTIGHT ABS TAPERED THREAD PLUG, AND ROUND, SMOOTH STAINLESS STEEL WALL ACCESS COVER WITH SECURING SCREW.	NA

- NOTES:
1. REFER TO PLUMBING FIXTURE ROUGH-IN SCHEDULE FOR MINIMUM CONNECTION SIZES.

PLUMBING FIXTURE ROUGH-IN SCHEDULE

FIXTURE	CW	HW	VENT	WASTE	NOTES
ELECTRIC WATER COOLER	1/2"	-	1 1/2"	1 1/2"	1, 2
FLOOR DRAIN	-	-	1 1/2"	2"	1
FLOOR DRAIN / FLOOR SINK	-	-	1 1/2"	3"	1
FLOOR DRAIN	-	-	2"	4"	1
HOSE BIBB (INTERIOR)	1/2"	-	-	-	1
LAVATORY	1/2"	1/2"	1 1/4"	1 1/4"	1, 2
MOP BASIN	3/4"	3/4"	1 1/2"	3"	1
WALL HYDRANT (EXTERIOR)	3/4"	-	-	-	1
WATER CLOSET (FLUSH VALVE)	1"	-	2"	4"	1

- NOTES:
1. ALL SIZES SHOWN ARE MINIMUM CONNECTION SIZES, REFER TO DRAWINGS FOR FINAL SIZES.
2. ALL VERTICAL WASTE RISERS TO FIXTURES AND ALL BELOW FLOOR WASTE SIZES SHALL BE A MINIMUM OF 2".

PLUMBING PIPING AND INSULATION SCHEDULE

SYSTEM	SIZE RANGE (INCHES)	LOCATION	PIPE MATERIAL (NOTE 1)	JOINT TYPE (NOTE 1)	VALVE TYPES (NOTE 3)	INSULATION TYPE (NOTE 2)	INSULATION THICKNESS (INCHES)	JACKET (NOTE 4)	NOTES
DOMESTIC COLD WATER	3/4 - 1 1/4	ABOVE GROUND	TYPE L COPPER	SOLDER/PRESSURE SEAL	BRONZE BALL, W SS TRIM	MINERAL FIBER / ELASTOMERIC	1/2	PVC	5
DOMESTIC COLD WATER	3/4 - 1 1/4	IN WALL CAVITY	PEX	METAL INSERT	-	MINERAL FIBER / ELASTOMERIC	1/2	-	-
DOMESTIC COLD WATER	1 1/2 - 2	ABOVE GROUND	TYPE L COPPER	SOLDER/PRESSURE SEAL	BRONZE BALL, W SS TRIM	MINERAL FIBER / ELASTOMERIC	1	PVC	5
DOMESTIC COLD WATER	2 1/2 - 8	ABOVE GROUND	TYPE L COPPER	GROOVED	-	MINERAL FIBER	1	ALUMINUM	5
DOMESTIC HOT WATER	3/4 - 1 1/4	ABOVE GROUND	TYPE L COPPER	SOLDER/PRESSURE SEAL	BRONZE BALL, W SS TRIM	MINERAL FIBER / ELASTOMERIC	1	PVC	5
DOMESTIC HOT WATER	3/4 - 1 1/4	IN WALL CAVITY	PEX	METAL INSERT	-	MINERAL FIBER / ELASTOMERIC	1	-	-
DOMESTIC HOT WATER	1 1/2 - 2	ABOVE GROUND	TYPE L COPPER	SOLDER/PRESSURE SEAL	BRONZE BALL, W SS TRIM	MINERAL FIBER	1 1/2	-	5
DOMESTIC HOT WATER	2 1/2 - 8	ABOVE GROUND	TYPE L COPPER	GROOVED	-	MINERAL FIBER	1 1/2	ALUMINUM	5
DOMESTIC HOT WATER CIRC	3/4 - 1 1/4	ABOVE GROUND	TYPE L COPPER	SOLDER/PRESSURE SEAL	BRONZE BALL, W SS TRIM	MINERAL FIBER / ELASTOMERIC	1	PVC	5
DOMESTIC HOT WATER CIRC	3/4 - 1 1/4	IN WALL CAVITY	PEX	METAL INSERT	-	MINERAL FIBER / ELASTOMERIC	1	-	-
DOMESTIC COLD/HOT/RECIRC	3/4 - 2	BELOW GROUND	TYPE K COPPER	SOLDER / BRAZE	BRONZE BALL, W SS TRIM	-	-	-	-
DOMESTIC WATER	2 - 8	BELOW GROUND	DUCTILE IRON	MECHANICAL / PUSH ON	GATE / BUTTERFLY	-	-	-	-
SANITARY DRAIN (GRAVITY)	1 1/2 - 8	BELOW GROUND	SCH 40 PVC DWV / CI	SOLVENT / HUB & SPIGOT	N/A	-	-	-	-
SANITARY VENT PIPING	1 1/4 - 4	BELOW GROUND	SCH 40 PVC DWV / CI	SOLVENT / HUB & SPIGOT	N/A	-	-	-	-
SANITARY DRAIN (GRAVITY)	1 1/2 - 8	ABOVE GROUND	SCH 40 PVC DWV / CI	SOLVENT / NO HUB	N/A	-	-	-	-
SANITARY VENT PIPING	1 1/4 - 8	ABOVE GROUND	SCH 40 PVC DWV / CI	SOLVENT / NO HUB	N/A	MINERAL FIBER	1	-	5, 6
STORM DRAINAGE	4 - 12	BELOW GROUND	SCH 40 PVC DWV / CI	SOLVENT / HUB & SPIGOT	N/A	-	-	-	-
STORM DRAINAGE	4 - 12	ABOVE GROUND	SCH 40 PVC DWV / CI	SOLVENT / NO HUB	N/A	MINERAL FIBER	1	-	5, 7

- NOTES:
1. ALL PIPING UTILIZED FOR POTABLE WATER SHALL MEET NSF 14, 61 AND 372. PUSH TO CONNECT / PUSH ON TYPE JOINTS ARE NOT ALLOWED. REFER TO SPECIFICATIONS FOR FURTHER JOINT AND MATERIAL REQUIREMENTS.
2. REFER TO SPECIFICATIONS FOR FURTHER INSULATION REQUIREMENTS. INSULATION R-VALUE SHALL MEET INTERNATIONAL ENERGY CODE (IECC) (2012) (2015) REQUIREMENTS.
3. ALL VALVES UTILIZED IN POTABLE WATER SYSTEMS SHALL MEET NSF 61 AND 372. REFER TO SPECIFICATIONS FOR FURTHER VALVE REQUIREMENTS.
4. EXPOSED PIPING MOUNTED BELOW 8'-0" ABOVE FLOOR SHALL HAVE [PVC] [ALUMINUM] JACKET.
5. INSULATION APPLIED TO PIPING THAT IS LOCATED IN RETURN AIR PLenums SHALL MEET ASTM E 84 2580 FLAME AND SMOKE SPREAD RATING AND COMPLY WITH NFPA STANDARD 96A.
6. VENT PIPING SHALL BE INSULATED A MINIMUM OF 8'-0" FROM EXTERIOR WALL OR ROOF PENETRATION.
7. STORM PIPING SHALL BE INSULATED A MINIMUM OF 8'-0" FROM ROOF DRAIN CONNECTION. ALL HORIZONTAL PIPING ABOVE CEILING SHALL BE INSULATED.

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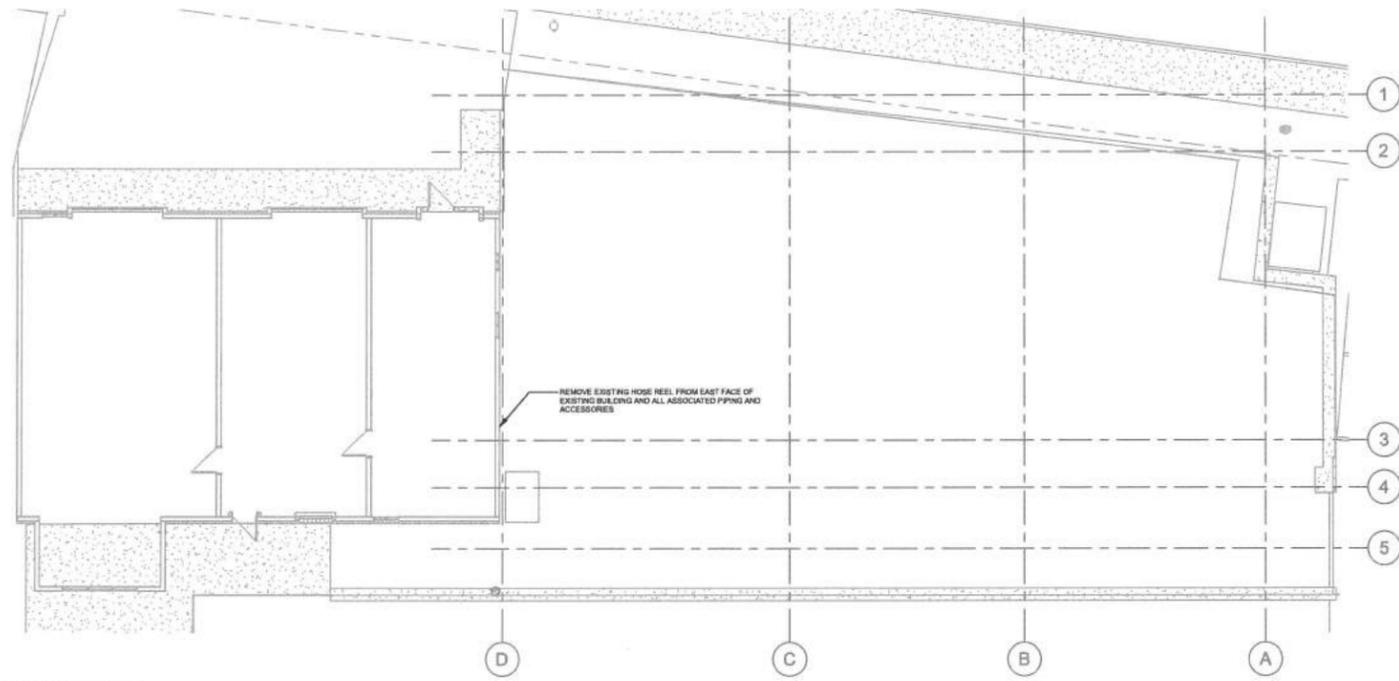
REVISIONS

NO	DESCRIPTION	DATE

PLUMBING SCHEDULES

PROJECT # DATE
22011 08.22.2022

P5.00



1 PLUMBING DEMO PLAN
 PD1.01 1/8" = 1'-0"

GENERAL NOTES:

1. REFER TO M000 FOR GENERAL NOTES & SYMBOLS.
2. PATCH WALLS, ROOFS, AND/OR FLOOR WHERE PIPES OR EQUIPMENT ARE REMOVED. PAINT OR FINISH TO MATCH ORIGINAL CONSTRUCTION.
3. WHERE PIPING, EQUIPMENT, AND PLUMBING FIXTURES ARE REMOVED, REMOVE ALL VALVES, SUPPORTS, INSULATION, AND APPURTENANCES. REMOVE PIPING BACK TO MAINS AND CAP. DO NOT LEAVE DEAD LEGS LONGER THAN 12".

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NO	DESCRIPTION	DATE

PLUMBING DEMO PLAN

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PD1.01

CLOCK SYSTEMS NOTES

- A. COORDINATE CLOCK INSTALLATION WITH ARCHITECTURAL PLANS AND ELEVATIONS.
- B. **[CFCI - ALL NEW WIRELESS 72MHz - ANALOG]** PROVIDE A NEW WIRELESS MASTER CLOCK PLATFORM. CONFIRM WITH THE MANUFACTURER THAT THE TRANSMITTER LOCATION PROPOSED WILL GRANT FULL COVERAGE TO ALL NEW WIRELESS CLOCKS ILLUSTRATED ON THE DRAWINGS. PROVIDE CUSTOM FACE OPTIONS TO THE OWNER DURING THE SUBMITTAL PROCESS. FOR BID PURPOSES, ASSUME A CUSTOM GRAPHIC WILL BE REQUIRED ON EACH CLOCK FACE.
- C. **[CFCI - ALL NEW #WIRELESS/Bluetooth - ANALOG]** PROVIDE A NEW WIRELESS MASTER CLOCK PLATFORM. PROVIDE CUSTOM FACE OPTIONS TO THE OWNER DURING THE SUBMITTAL PROCESS. FOR BID PURPOSES, ASSUME A CUSTOM GRAPHIC WILL BE REQUIRED ON EACH CLOCK FACE.
- D. **[CFCI - ALL NEW #WIRELESS/Bluetooth - DIGITAL]** COORDINATE ALL CLOCK LOCATIONS CLOSELY WITH THE ELECTRICAL CONTRACTOR FOR BACKBOX AND POWER PURPOSES.

GROUNDING & BONDING NOTES

- A. INSTALLATION OF THE COMMUNICATIONS GROUNDING AND BONDING SYSTEM SHALL BE COMPLIANT WITH TIA-607-D. REFER TO SPECIFICATION 27 05 28 FOR ADDITIONAL INFORMATION.
- B. ENSURE THE MAIN BUILDING AC GROUND IS THOROUGHLY EXAMINED PRIOR TO INSTALLING THE TELECOMMUNICATIONS BONDING CONDUCTOR (TBC) TO THE PRIMARY BONDING BUSBAR (PBB).
- C. THE TBC SHALL NOT EXCEED 30 FEET AND SHALL BE EQUAL IN SIZE (GAUGE) TO THE LARGEST TELECOMMUNICATIONS BONDING BACKBONE (TBB) CONDUCTOR. CONTRACTOR IS ENCOURAGED TO INSTALL THE PRIMARY BONDING BACKBONE (PBB) INSIDE THE MAIN ELECTRICAL ROOM TO KEEP TBC DISTANCES SHORT.
- D. APPLY ANTI-CORROSION/OXIDATION COMPOUND TO THE LUG AND LUG SURFACE OF EACH TELECOMMUNICATIONS BUSBAR.

AUDIO VISUAL NOTES

- A. ALL SUPPORTING DOCUMENTATION, PROGRAMMING, UNCOMPILLED SOURCE CODE, GRAPHIC FILES, DSP CODE AND DIAGRAMS, WRITTEN AND ELECTRONIC FILES, INCLUDING ALL LATEST VERSIONS OF THE DOCUMENTATION AND SOFTWARE NECESSARY TO EDIT AND ADAPT THE SYSTEM(S), SHALL BE PROVIDED TO THE OWNER FOR ALL SPACES AND ALL SYSTEMS. THE INTEGRATOR AND/OR PROGRAMMER SHALL ALSO MAINTAIN A CURRENT COPY TO BE PROVIDED AT THE OWNER'S REQUEST.
 - a. THE OWNER SHALL HAVE THE RIGHT TO MODIFY THIS CONTENT DIRECTLY OR TO HAVE IT MODIFIED BY ANY PARTY OF THE OWNER'S CHOOSING.
- B. IN ADDITION TO THE INSTALLATION AND REQUIRED TECHNICIAN PROGRAMMING TIME, CONTRACTOR SHALL ACCOMMODATE THE FOLLOWING TIME REQUIREMENTS AT A MINIMUM.
 - a. PRE-PROGRAMMING MEETING: EXPLAIN SYSTEM CAPABILITIES TO COORDINATE WITH STAFF'S NEEDS. (2 HOURS)
 - b. POST-PROGRAMMING MEETING: WALK THROUGH TOUCHSCREEN AND ANY MOBILE APPLICATION LAYOUT. (2 HOURS)
 - c. DEMONSTRATION AND COMPLETE END USER TRAINING. (2 HOURS)

CABLING NOTES

- A. CATEGORY CABLING SERVING DATA AND VOICE APPLICATIONS SHALL BE TESTED TO ENSURE ALL ELECTRICAL CHARACTERISTICS ARE COMPLIANT WITH THE SPECIFIED CLASSIFICATION (6 AND/OR 5A). UTILIZE FLUKE DSX EQUIPMENT OR EQUIVALENT AND PROVIDE ELECTRONIC RESULTS DURING CLOSEOUT PROCEDURES. ANY INSTANCE OF CABLING FAILING THE PERFORMANCE TEST SHALL BE RECTIFIED BY THE CONTRACTOR THROUGH RE-TERMINATION OR RUNNING NEW CABLING AT NO COST TO THE OWNER.
- B. PROVIDE A CERTIFIED INSTALLATION BY THE MANUFACTURER. ENSURE THE WARRANTY IS PROVIDED AS THE SPECIFICATIONS REQUIRE.
- C. WILD RETURN AIR IS EXPECTED IN THE PLENUM SPACES OF THIS PROJECT. THEREFORE, PROVIDE PLENUM RATED CABLING FOR ALL FLOW INFRASTRUCTURE IN THE ABOVE ACCESSIBLE CEILING SPACES.

TELECOMMUNICATIONS DISTRIBUTION NOTES

- A. PROVIDE PENETRATIONS AND PATHWAYS AS REQUIRED TO ROUTE ALL CABLING INFRASTRUCTURE ILLUSTRATED IN THE DRAWINGS. TREAT EACH NEW PENETRATION AS A 1-HOUR FIRE RATED WALL UNLESS OTHERWISE NOTED. PROVIDE REQUIRED FIRE STOPPING TO MAINTAIN THIS RATING.
- B. REAM CONDUIT TO REMOVE BURRS AND ROUGH EDGES. PROVIDE A PROTECTIVE BUSHING AT THE END OF ANY CONDUIT STUB TO PROTECT CABLING INFRASTRUCTURE.
- C. PROVIDE CABLE SUPPORT FOR ROUTING ALL NEW INFRASTRUCTURE. INSIDE OF ABOVE ACCESSIBLE CEILING SPACES, CABLING CAN BE FLOWN FREE-AIR UTILIZING J-HOOKS, BRDLE RINGS AND OTHER ACCESSORIES TO SUPPORT CABLING. CABLE SHALL NOT BE ALLOWED TO REST ON TOP OF CEILING TILES OR TO UTILIZE GRID SUPPORT SYSTEM.
- D. ALL OPEN CEILING AREAS SHALL HAVE CABLING CONCEALED IN CONDUIT. EXPOSED CABLING SHALL NOT BE ACCEPTED.
- E. ROUTE CONDUIT SERVING WORK AREA OUTLET DATA DIRECTLY TO THE CABLE TRAY. CONDUIT STUB SHALL BE DIRECTLY OVERHEAD OF THE TRAY TO ALLOW FOR CONVENIENT FUTURE MOVE, ADDS OR CHANGES.

EQUIPMENT ROOM FITTINGS NOTES

- A. TELECOMMUNICATIONS ROOM LAYOUT SHALL BE APPROVED BY THE OWNER PRIOR TO ANCHORING OR INSTALLING EQUIPMENT. PROVIDE A PRE-CONSTRUCTION COORDINATION MEETING AND INCLUDE DESIGN TEAM AND OWNER TO ENSURE PROPER CONFIGURATION OF SCHEDULED EQUIPMENT. ROOM LAYOUT ILLUSTRATED IN THE DRAWINGS IS FOR BID PURPOSES ONLY.
- B. BIDDING CONTRACTOR SHALL HAVE THE FOLLOWING OPTIONS FOR TELECOMMUNICATIONS ROOM WALL COVERINGS.
 - a. PROVIDE AC GRADE PLYWOOD THAT IS PAINTED ON ALL SIDES WITH TWO COATS OF A WHITE FIRE-RETARDANT PAINT.
 - b. PROVIDE FIRE-RETARDANT AC GRADE PLYWOOD THAT IS PAINTED WHITE BUT LEAVING THE FIRE RETARDANT MARKINGS/REAR EXPOSED FOR INSPECTION PURPOSES.
- C. ANCHOR RACK(S) TO THE FLOOR OR TRAY UTILIZING MANUFACTURER APPROVED HARDWARE.
- D. PROVIDE ALL REQUIRED CABLE TRAY/RUNWAY ACCESSORIES INCLUDING BUT NOT LIMITED TO: WATERFALL RADIUS DROP, OFFSETS, BRACKETS, AND RACK ATTACHMENT HARDWARE.
- E. CLEAN ALL SURFACES OF ROOM PRIOR TO OWNER'S INSTALLATION OF ACTIVE NETWORK EQUIPMENT.

DIVISION 27 - COMMUNICATIONS

GENERAL PURPOSE PAGING SYSTEMS NOTES

- A. **[CFCI - ALL NEW]** PROVIDE A NEW IP PAGING SYSTEM AS ILLUSTRATED ON THE DRAWINGS. INCLUDE ALL NECESSARY HEAD END EQUIPMENT, SPEAKERS, AND ACCESSORIES NECESSARY FOR A COMPLETE INSTALLATION. REFER TO SPECIFICATION 27 XX XX FOR ADDITIONAL INFORMATION.
- B. **[CFCI - EXTEND EXISTING]** EXTEND THE EXISTING 70V ANALOG PAGING SYSTEM AS ILLUSTRATED ON THE DRAWINGS. PROVIDE APPROPRIATE AMPLIFICATION, ZONE EQUIPMENT, SPEAKERS, AND ACCESSORIES NECESSARY FOR A COMPLETE INSTALLATION. REFER TO SPECIFICATION 27 XX XX FOR ADDITIONAL INFORMATION.

CLASSROOM INTERCOMMUNICATIONS SYSTEMS (IP) NOTES

- A. PROVIDE ALL REQUIRED SPEAKERS, MICROPHONES, WALL PLATES, CABLING AND HEAD END EQUIPMENT FOR A COMPLETE AND FUNCTIONING SYSTEM.
- B. COORDINATE ALL NETWORK REQUIREMENTS AND CONFIGURATION WITH THE OWNER.
- C. COORDINATE PROGRAMMING OF SYSTEM WITH OWNER'S SECURITY PROTOCOL. ENSURE THE SYSTEM FUNCTIONS IN A WAY THAT WOULD SUPPORT THE OWNER'S SAFETY ACTION PLAN.

CLASSROOM AUDIO/VISUAL NOTES

- A. PROVIDE A CLASSROOM AUDIO VIDEO SYSTEM AS ILLUSTRATED ON THE DRAWINGS. IN ADDITION TO ALL MAJOR EQUIPMENT SHOWN ON THE DRAWINGS PROVIDE ALL MOUNTS, CABLING AND ACCESSORIES REQUIRED FOR A COMPLETE AND FUNCTIONING SYSTEM.
- B. PROVIDE A CUSTOM USER GUIDE FOR THE CLASSROOM SYSTEM THAT CAN BE REFERRED TO BY STAFF THROUGHOUT THE SCHOOL THAT DESCRIBES HOW TO OPERATE THE SYSTEM.

TECHNOLOGY GENERAL NOTES

- A. ALL NOTES APPLY TO THE FOLLOWING SERIES SHEETS: T, AV, FA, SERIES
- B. COORDINATE LOCATION/INSTALLATION OF MECHANICAL AND ELECTRICAL WORK WITH ALL OTHER TRADES. NO ASPECT OF A SYSTEM INSTALLATION OR ITS ROUGH-IN SHALL COMMENCE UNTIL PROPER AND TIMELY COORDINATION WITH ALL TRADES ASSOCIATED WITH THE INSTALLATION HAS TRANSPIRED. ITEMS TO BE COORDINATED SHALL INCLUDE BUT NOT BE LIMITED TO: BUILDING STRUCTURE, SHEET METAL, ALL PIPING SYSTEMS, LIGHT FIXTURES, CONDUITS, CABLE TRAYS, ETC. REFER TO ALL GENERAL, MECHANICAL, AND ELECTRICAL DRAWINGS AND SPECIFICATIONS FOR THIS PROJECT. ANY REWORK OF INSTALLED EQUIPMENT WILL BE AT THE CONTRACTOR'S EXPENSE.
- C. INCORPORATE INTO INSTALLATION COMMUNICATIONS AND LIFE SAFETY/SECURITY SYSTEM SPECIFICATIONS, DRAWINGS, STATE AND LOCAL CODES, AND OTHER APPLICABLE REQUIREMENTS.
- D. EACH TRADE IS RESPONSIBLE TO MAKE PENETRATIONS WHERE REQUIRED IN EXISTING OR NEW WALLS, FLOORS, AND CEILINGS. PENETRATIONS SHALL BE NEAT. ANY OVERCUT SHALL BE CONCEALED OR CAULKED.
- E. ALL NEW CONDUITS SHALL BE PROVIDED A PULL STRING TO ALLOW EASE OF CABLE INSTALLATION.

DIVISION 28 - LIFE SAFETY & SECURITY

ACCESS CONTROL/SECURITY MANAGEMENT NOTES

- A. **[CFCI - ROUGH-IN ONLY]** SECURITY MANAGEMENT SYSTEM SHALL BE PROVIDED BY THE OWNER. DETAILS ILLUSTRATED IN THE DRAWINGS ARE FOR PATHWAY AND ROUGH-IN REQUIREMENTS ONLY. REVIEW SPECIFICATION SECTION 08 71 00 FOR ALL SPECIFIC ELEMENTS THAT ARE SCHEDULED AT EACH OPENING.
- B. **[CFCI - ROUGH-IN AND CABLING ONLY]** SECURITY MANAGEMENT SYSTEM SHALL BE PROVIDED BY THE OWNER. DETAILS ILLUSTRATED IN THE DRAWINGS ARE FOR PATHWAY, ROUGH-IN AND CABLING REQUIREMENTS ONLY. REVIEW SPECIFICATION SECTION 08 71 00 FOR ALL SPECIFIC ELEMENTS THAT ARE SCHEDULED AT EACH OPENING.
- C. **[CFCI - ALL NEW]** PROVIDE A COMPLETE SECURITY MANAGEMENT ACCESS CONTROL SYSTEM. DETAILS ILLUSTRATED IN THE DRAWINGS ARE DIAGNOSTIC TO ILLUSTRATE PATHWAY, ROUGH-IN, DEVICE AND CABLING REQUIREMENTS. REVIEW SPECIFICATION SECTION 08 71 00 FOR ALL SPECIFIC ELEMENTS THAT ARE SCHEDULED AT EACH OPENING.
- D. **[CFCI - EXTEND EXISTING]** EXTEND THE EXISTING [] SECURITY MANAGEMENT ACCESS CONTROL SYSTEM. DETAILS ILLUSTRATED IN THE DRAWINGS ARE DIAGNOSTIC TO ILLUSTRATE PATHWAY, ROUGH-IN, DEVICE AND CABLING REQUIREMENTS. REVIEW SPECIFICATION SECTION 08 71 00 FOR ALL SPECIFIC ELEMENTS THAT ARE SCHEDULED AT EACH OPENING.
- E. **[CFCI - DYNAMIC MAP CREATION]** PROVIDE LABOR TO IMPORT A DYNAMIC MAP OF THE BUILDING OR CAMPUS INTO THE SECURITY MANAGEMENT PLATFORM. WITH OWNER DIRECTION, PROVIDE A COMPLETE LAYOUT OF ALL FIELD DEVICES INSIDE OF THIS MAP THAT ALLOWS FOR QUICK AND VISUAL ACCESS TO ALL SECURED OPENINGS AND AUXILIARY ALARM LOCATIONS.
- F. IT IS THE INTENT THAT ALL PATHWAYS AND ROUGH-IN SERVING ACCESS CONTROL, SHALL BE RECESSED AND CONCEALED. EXPOSED CABLING OR SURFACE PATHWAYS SHALL NOT BE ACCEPTED.
- G. DETAILS ILLUSTRATED IN THE DRAWINGS ARE NOT INTENDED TO ACCURATELY ILLUSTRATE CEILING TYPES, CEILING AND DECK HEIGHTS, DOOR SWING OR DOOR FINISHES. COORDINATE EACH OPENING'S SPECIFIC ROUGH-IN AND PATHWAY NEEDS WITH ARCHITECTURAL PLANS AND ELEVATIONS.

FIRE DETECTION & ALARM NOTES

- A. INTERFACE NEW DEVICES WITH MECHANICAL EQUIPMENT FOR FAN SHUT DOWN, SMOKE DAMPER AND COMBINATION FRESH/SMOKE DAMPER PURPOSES.
- B. EXTEND THE EXISTING NOTIFIER FIRE COMMAND NFC-100 FIRE DETECTION AND ALARM SYSTEM TO LOCATIONS ILLUSTRATED ON THE DRAWINGS.
- C. FIRE ALARM ITEMS AND DEVICES ARE SHOWN IN SUGGESTED LOCATIONS. FINAL LAYOUTS, LOCATIONS, AND QUANTITIES SHALL BE IN ACCORDANCE WITH APPLICABLE CODES, MANUFACTURER'S RECOMMENDATIONS, AND EQUIPMENT LISTINGS. COORDINATE LOCATIONS WITH LIGHTING AND AIR HANDLING SYSTEMS.
- D. ALL FIRE ALARM CIRCUITRY IN EXPOSED CEILING SPACES SHALL BE IN 1/2" CONDUIT PER SPECIFICATIONS. EXPOSED CABLING SHALL NOT BE ACCEPTED.
- E. ALL CONCEALED, ACCESSIBLE CEILING TILE LOCATIONS SHALL BE ALLOWED TO HAVE OPEN AIR CABLING INSTALLED. PROVIDE J-HOOKS, BRDLE RINGS AND ASSOCIATED CABLE SUPPORTS TO KEEP INFRASTRUCTURE MANAGED AND OFF OF THE CEILING TILE.
- F. ELECTRICAL CONTRACTOR SHALL PROVIDE FIRESTOPPING AT ALL PENETRATIONS PER SPECIFICATION.

INTRUSION DETECTION NOTES

- A. EXTEND THE EXISTING INTRUSION DETECTION SYSTEM. COORDINATE PLACING THE EXISTING PANEL IN TEST MODE WITH THE BUILDING OWNER DURING INSTALLATION.

TELECOMMUNICATIONS INFRASTRUCTURE SYMBOLS

	DATA CABLING - SEE SCHEDULE FOR EXACT REQUIREMENTS
	WIRELESS ACCESS POINT - SEE SCHEDULE FOR EXACT REQUIREMENTS
	WALL PHONE
	CABLE TELEVISION LOCATION - RADIO GRADE CABLING
	WALL MOUNTED CLOCK
	WIRELESS GATEWAY FOR ALLEGION DOOR LOCKS

GROUNDING AND BONDING SYMBOLS

	GROUND BAR
	PRIMARY BONDING BUSBAR
	SECONDARY BONDING BUSBAR

SEE RISER DIAGRAM AND SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS

AUDIO VISUAL SYMBOLS

	SPEAKER - SUSPENDED OR CEILING MOUNTED
	SPEAKER - RECESSED WALL MOUNTED
	MICROPHONE - TABLETOP
	AV CONTROL PANEL - WALL MOUNTED
	AV CONTROL PANEL - TABLETOP
	AV INPUT WALLPLATE (PASSIVE)
	CEILING MICROPHONE

SECURITY SYMBOLS

	VIDEO CONFERENCING CAMERA - WALL MOUNTED
	VIDEO CONFERENCING CAMERA - CEILING MOUNTED
	LOCKED KEY BOX, CONNECTED TO S2 SECURITY PANEL
	KNOCK BOX FOR KEY ACCESS
	CARD READER

FIRE DETECTION AND ALARM SYMBOLS

	MANUAL FIRE ALARM PULL STATION
	SMOKE DETECTOR
	SMOKE DETECTOR WITH 520Hz SOUNDER BASE
	SMOKE DETECTOR - WALL MOUNTED
	DUCT SMOKE DETECTOR
	CARBON MONOXIDE DETECTOR
	COMBINATION SMOKE-CARBON MONOXIDE DETECTOR
	HEAT DETECTOR
	COMBINATION SPEAKER WITH STROBE - WALL MOUNTED
	COMBINATION SPEAKER WITH STROBE - CEILING MOUNTED
	STROBE - WALL MOUNTED
	STROBE - CEILING MOUNTED
	SPEAKER - WALL MOUNTED
	SPEAKER - CEILING MOUNTED
	ADDRESSABLE INPUT MODULE
	SPRINKLER WATER FLOW SWITCH - ADDRESSABLE INPUT MODULE
	SPRINKLER VALVE TAMPER SWITCH - ADDRESSABLE INPUT MODULE
	SPRINKLER POST INDICATOR VALVE TAMPER - ADDRESSABLE INPUT MODULE
	ADDRESSABLE OUTPUT MODULE
	FAN SHUT DOWN RELAY - ADDRESSABLE OUTPUT MODULE
	MAGNETIC DOOR HOLD - SURFACE MOUNTED
	MAGNETIC DOOR HOLD - FLOOR MOUNTED
	SMOKE DAMPER
	COMBINATION FIRE/SMOKE DAMPER
	FIRE ALARM ANNUNCIATOR PANEL
	FIRE ALARM CONTROL PANEL - EMERGENCY COMMUNICATIONS PANEL

TECHNOLOGY SHEET LIST

Sheet Number	Sheet Name
T0.00	TECHNOLOGY GENERAL NOTES & SYMBOLS
T1.01	TECHNOLOGY SITE PLAN
T1.02	TECHNOLOGY FLOOR PLAN
T1.03	TECHNOLOGY ELECTRICAL FLOOR PLAN
T1.04	TECHNOLOGY REFLECTED CEILING PLAN
T1.05	TECHNOLOGY ENLARGED PLAN
T3.00	TECHNOLOGY DETAILS

TECHNOLOGY RESPONSIBILITY MATRIX

	PROVISION RESPONSIBILITIES DEFINED	OFOI	OFCI	CFCI	CFOI
COMMUNICATIONS - TELECOM SYSTEMS:					
ROUGH-IN, PATHWAYS AND SLEEVES				●	
RACKS, FRAMES AND ENCLOSURES				●	
CABLE MANAGEMENT				●	
UNINTERRUPTIBLE POWER SUPPLIES (RACK MOUNT)				●	
PLYWOOD BACKBOARDS				●	
COPPER BACKBONE CABLING				●	
OPTICAL FIBER BACKBONE CABLING				●	
COPPER HORIZONTAL CABLING				●	
OPTICAL FIBER HORIZONTAL CABLING				●	
DATA COMMUNICATIONS SWITCHES AND HUBS		●			
DATA COMMUNICATIONS WIRELESS ACCESS POINTS		●			
VOICE COMMUNICATIONS SWITCHING AND ROUTING EQUIPMENT		●			
COMMUNICATIONS - AUDIO-VISUAL SYSTEMS:					
ROUGH-IN, PATHWAYS AND SLEEVES				●	
PROJECTOR(S)		●			
FLAT PANEL DISPLAY(S)		●			
MULTI-TOUCH DISPLAY(S)		●			
DISPLAY TECHNOLOGY MOUNTING HARDWARE		●			
MEDIA PLAYER(S)		●			
HEAD-END EQUIPMENT		●			
COMMUNICATIONS - DISTRIBUTED SYSTEMS:					
ROUGH-IN, PATHWAYS AND SLEEVES				●	
PUBLIC ADDRESS SYSTEM				●	
WIRED / WIRELESS CLOCK SYSTEM				●	
SECURITY - ACCESS CONTROL:					
ROUGH-IN, PATHWAYS AND SLEEVES				●	
SECURITY MANAGEMENT SYSTEM - HEAD END COMPONENTS				●	
SECURITY MANAGEMENT SYSTEM - FIELD DEVICES				●	
SECURITY MANAGEMENT SYSTEM - ELECTRIFIED DOOR HARDWARE				●	
SECURITY MANAGEMENT SYSTEM - ALL CABLING				●	
SECURITY - VIDEO SURVEILLANCE:					
ROUGH-IN, PATHWAYS AND SLEEVES				●	
CAMERA(S)				●	
HEAD END EQUIPMENT AND COMPONENTS				●	
SAFETY - FIRE DETECTION AND ALARM:					
ROUGH-IN, PATHWAYS AND SLEEVES				●	
NOTIFYING FIELD DEVICES (SMOKE, MANUAL PULL, MONITOR MODULES)				●	
NOTIFICATION APPLIANCES (HORNS, STROBES, SPEAKERS)				●	
MISCELLANEOUS DEVICES (RELAYS, TEST STATION, ANNUNCIATOR)				●	

GENERAL NOTE:
A. MATRIX IS NOT INTENDED TO BE EXHAUSTIVE TO COVER ALL MATERIALS NECESSARY FOR SCOPE AND SHOULD ONLY BE USED TO QUICKLY IDENTIFY SYSTEMS AND RELATED INFRASTRUCTURE INSIDE AND OUTSIDE THE BID OF THIS PROJECT. ANY ITEMS FURNISHED OR INSTALLED BY THE BIDDING CONTRACTOR SHALL COVER ALL REQUIRED APPURTENANCES NECESSARY FOR A COMPLETE SYSTEM. THIS SHALL INCLUDE BUT NOT BE LIMITED TO, EQUIPMENT, ACCESSORIES, TERMINATIONS, TERMINATION COMPONENTS, ALL FINAL CORDAGE CONNECTIVITY, SOFTWARE, PROGRAMMING, AND THE LABOR TO INSTALL.

GENERAL SYMBOLS

	CONDUIT SLEEVE
	CONDUIT UP, REFER TO TAG ON DRAWING FOR SIZE
	CONDUIT DOWN, REFER TO TAG ON DRAWING FOR SIZE
	JUNCTION BOX, CEILING OR FLOOR MOUNTED.
	FURNITURE FEED BOX, CEILING OR FLOOR MOUNTED.
	JUNCTION BOX, WALL MOUNTED, ELEVATION AS NOTED.
	FURNITURE FEED BOX, WALL MOUNTED
	CIRCUIT HOMERUN, CONCEALED CONDUIT OR CABLE
	CIRCUIT HOMERUN, UNDER FLOOR CONDUIT OR CABLE
	EQUIPMENT TAG NUMBER, REFER TO EQUIPMENT SCHEDULE
	KEYNOTE
	DETAIL DRAWING REFERENCE TAG, SM-SIMILAR, TYP-TYPICAL, OPP-OPPOSITE SHEET REFERENCE
	SECTION CUT REFERENCE TAG, SM-SIMILAR, TYP-TYPICAL, OPP-OPPOSITE SHEET REFERENCE
	INTERIOR ELEVATION DRAWING REFERENCE TAG

GLAS ARCHITECTS, LLC

115 West 8th Avenue, Suite 285
Eugene, Oregon 97401
www.glas-arch.com
541.686.2014

FOR REFERENCE ONLY

NOT FOR CONSTRUCTION

KCL ENGINEERING

206 E. 5th Ave., Suite 501
Eugene OR 97401
503-212-4612

LOWELL WEIGHT ROOM AND CLASSROOM BUILDINGS LOWELL SCHOOL DISTRICT

90% CONSTRUCTION DOCUMENT

65 PIONEER ST, LOWELL, OR 97452

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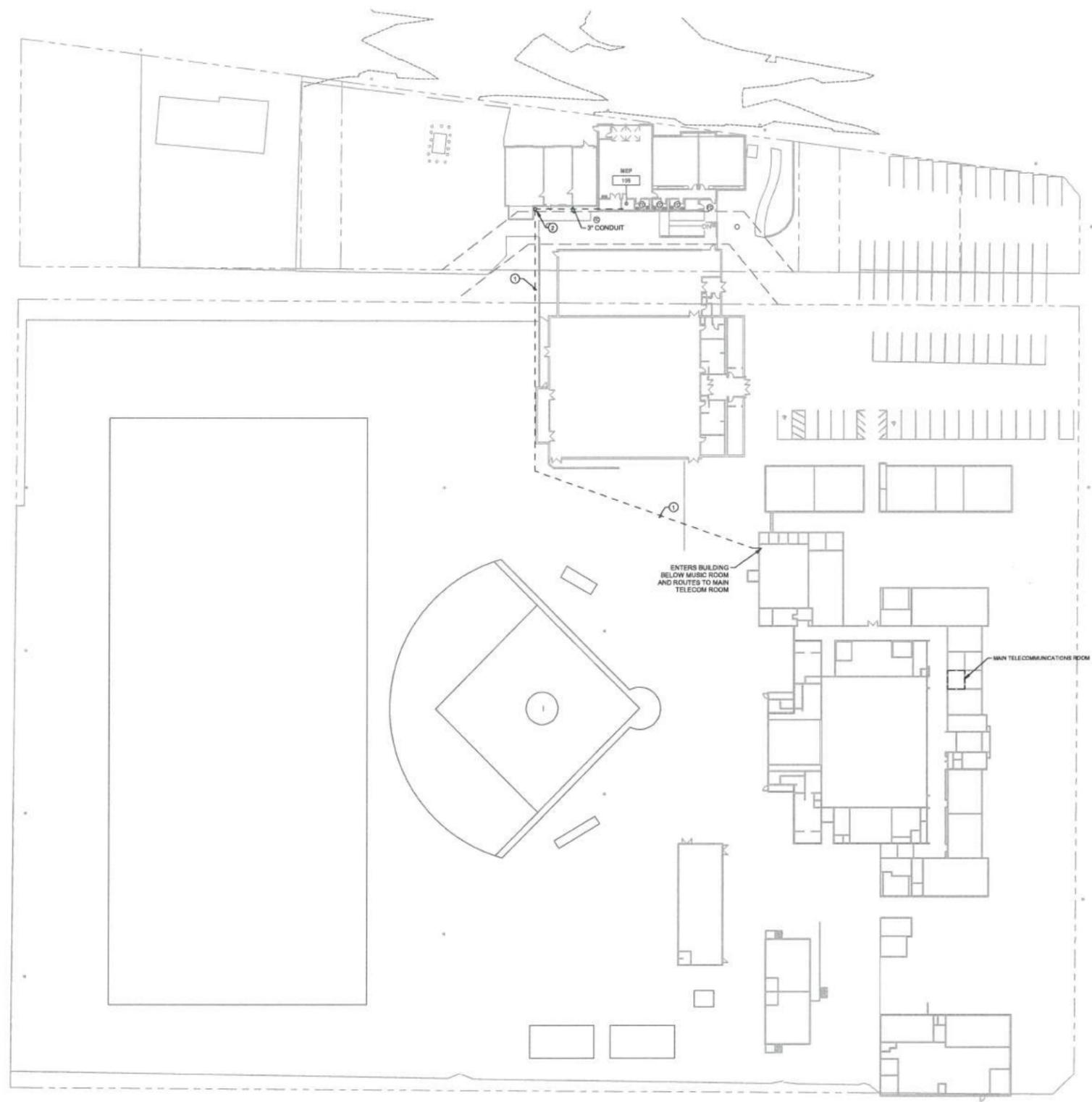
REVISIONS

NO	DESCRIPTION	DATE

TECHNOLOGY GENERAL NOTES & SYMBOLS

PROJECT #	DATE
22011	08.22.2022

T0.00



SHEET NOTES
 1. CABLES RUN TO NEW BUILDING VIA EXISTING 2" SPARE CONDUIT SHALL BE FIRE ALARM AND 12 STRAND SINGLE MODE FIBER

KEYNOTES
 1. EXISTING CONDUIT RUNS TO BUS BARN FOR FIBER NETWORK CONNECTION. (2) 2" CONDUITS EXISTING, ONE USED ONE SPARE.
 2. ADD EXTERIOR J BOX WITH NEW CONDUIT TO NEW SPACE (IF ROOM THIS BOX WILL ALLOW ABILITY TO USE EXISTING SPARE CONDUIT AS PATH TO NEW SPACE)

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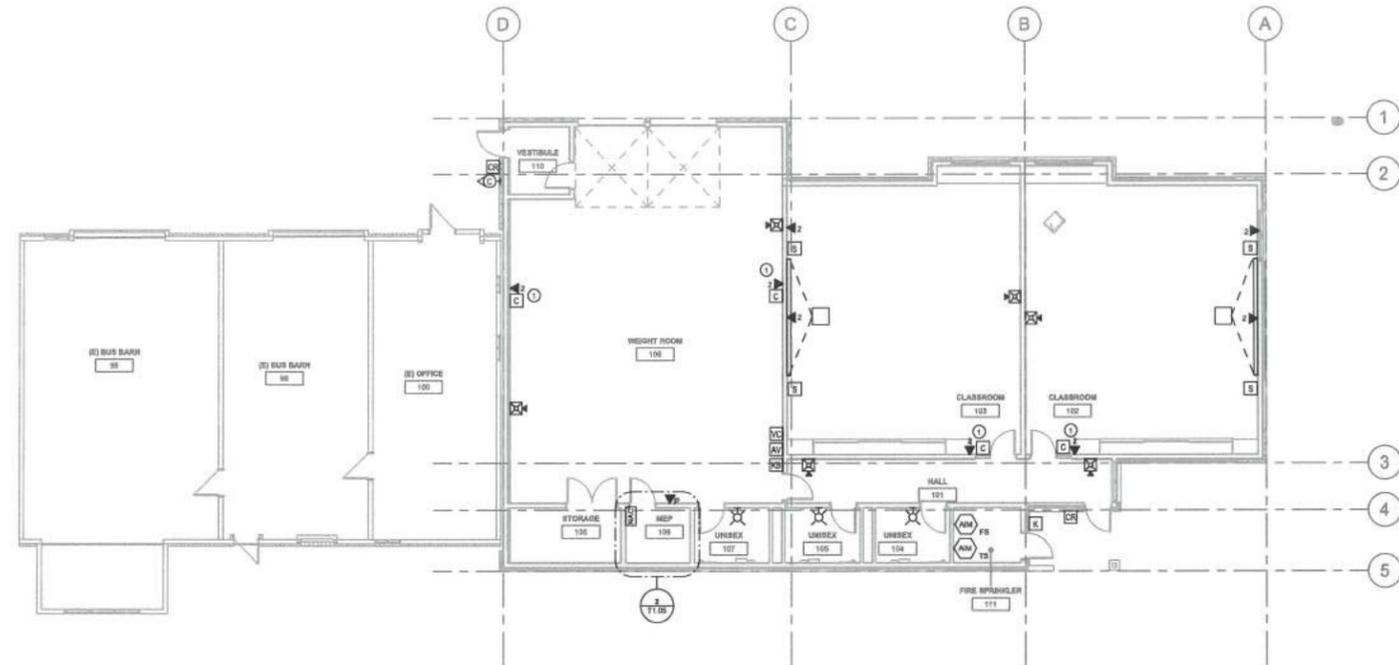
REVISIONS

NO	DESCRIPTION	DATE

TECHNOLOGY SITE PLAN

PROJECT #	DATE
22011	08.22.2022





1 TECHNOLOGY FLOOR PLAN
T1.02
1/8" = 1'-0"



SHEET NOTES

- 1. ALL DATA OUTLETS SHALL HAVE ONE NON TERMINATED SPARE LEFT IN J BOX FOR FUTURE

KEYNOTES

- 1. WALL CLOCKS SHALL HAVE DATA CONNECTIONS TO NETWORK SWITCH, ONE CAT6 PER CLOCK

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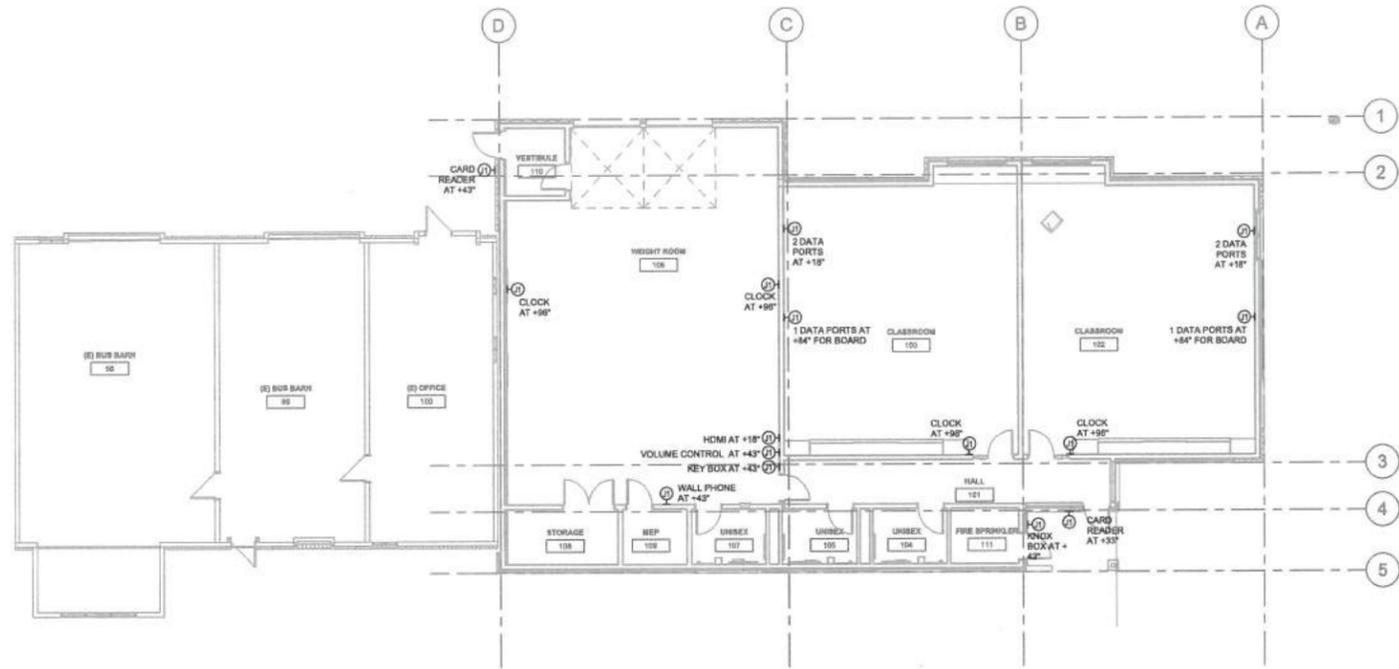
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NO	DESCRIPTION	DATE

TECHNOLOGY FLOOR PLAN

PROJECT #	DATE
22011	08.22.2022

T1.02



1 TECHNOLOGY ELECTRICAL FLOOR PLAN
T1.03
1/8" = 1'-0"

KEYNOTES ©



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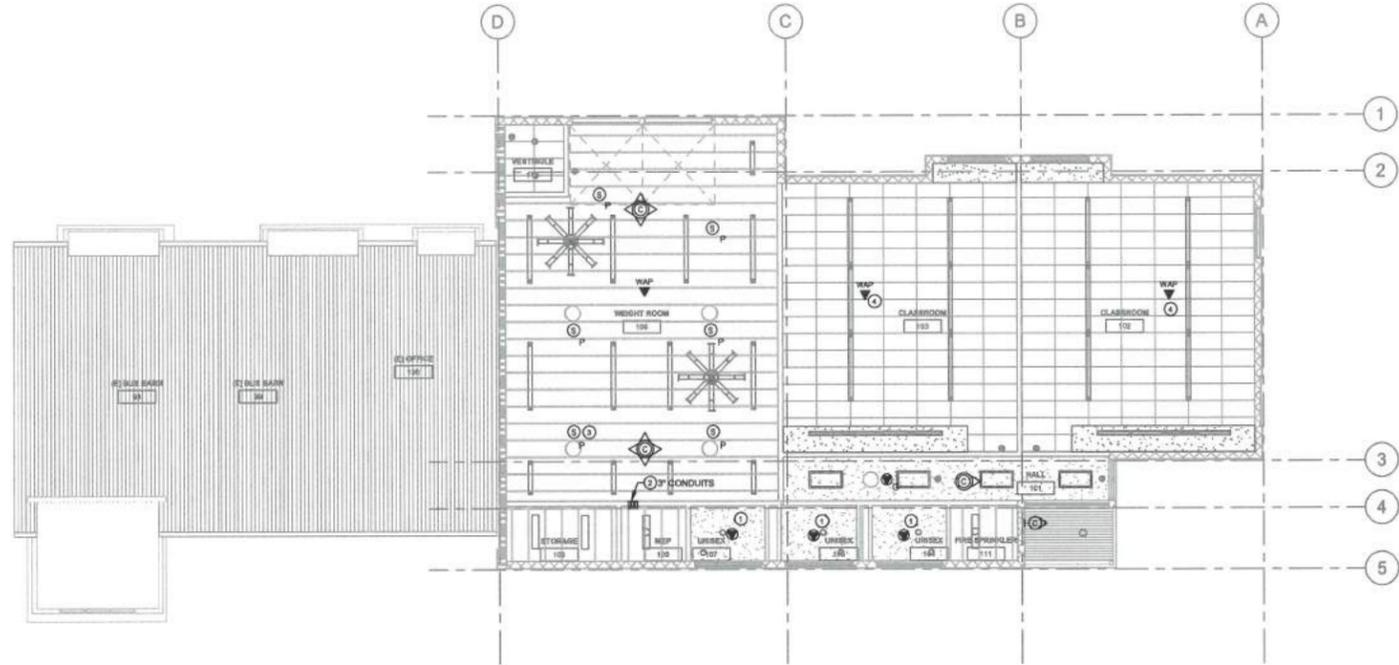
REVISIONS

NO	DESCRIPTION	DATE

TECHNOLOGY ELECTRICAL FLOOR PLAN

PROJECT #	DATE
22011	08.22.2022

T1.03



1 TECHNOLOGY REFLECTED CEILING PLAN
T1.04 1/8" = 1'-0"

SHEET NOTES

- FOR DEVICES IN HARD LD CEILING RUN CONDUIT FROM BACK BOX TO NEAREST ACCESSIBLE CEILING

KEYNOTES

- CEILING SENSOR FOR VAPE DETECTION
- RUN CONDUITS IN WALL AND STUB OUT ON WEIGHT ROOM SIDE 1' BELOW ROOF DECK
- AUDIO SPEAKERS WILL BE HANGING PENDANT TYPE. COORDINATE FINAL ELEVATION AND COLOR WITH THE ARCHITECT.
- (2) CAT6A FOR WAP LOCATIONS. TERMINATE SECOND CABLE AND COIL ABOVE CEILING.

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**LOWELL WEIGHT ROOM AND CLASSROOM BUILDINGS
LOWELL SCHOOL DISTRICT
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NO	DESCRIPTION	DATE

TECHNOLOGY REFLECTED CEILING PLAN

PROJECT #	DATE
22011	08.22.2022

T1.04

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REVISIONS

NO	DESCRIPTION	DATE

TECHNOLOGY
ENLARGED PLAN

PROJECT #	DATE
22011	08.22.2022

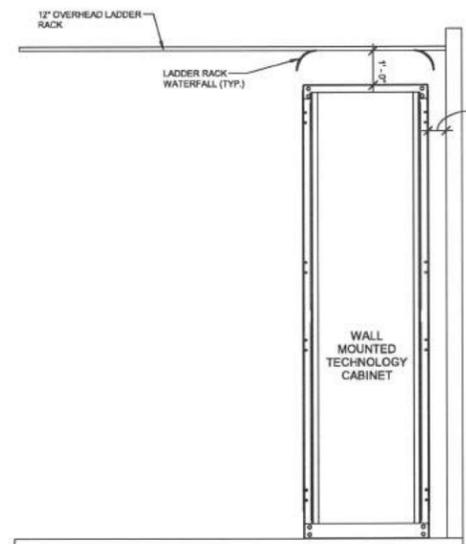
T1.05

SHEET NOTES

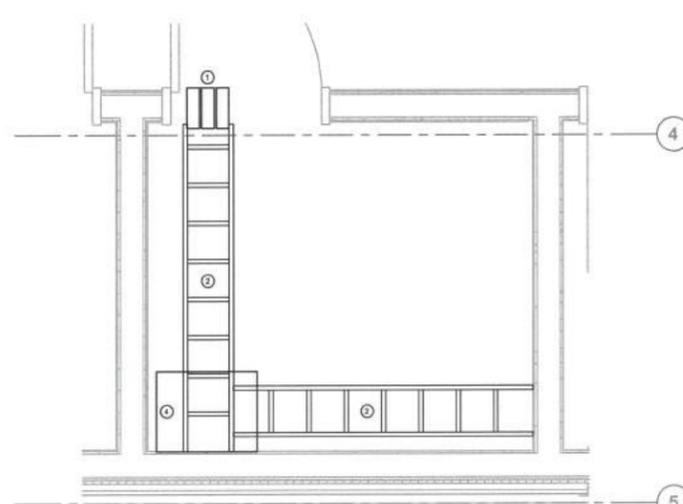
1. LABEL ALL RECEPTACLES IN THE EQUIPMENT ROOM WITH ELECTRICAL PANEL SOURCE AND CIRCUIT NUMBER.
2. PROVIDE LAMINATED AS-BUILT STATION ID TAB PLAN MOUNTED ON THE WALL AS SHOWN.
3. THE EQUIPMENT ROOM IS REQUIRED TO BE "READY" TWO WEEKS PRIOR TO SUBSTANTIAL COMPLETION. THE FOLLOWING ITEMS ARE REQUIRED FOR THE ROOM TO BE CONSIDERED READY:
 - A. THE ROOM IS LOCKABLE AND SECURE.
 - B. THE ROOM LIGHTING IS COMPLETE.
 - C. THE ROOM FLOORING COMPLETE.
 - D. THE ROOM HAS BEEN CLEANED AND IS DUST FREE. ALL CONSTRUCTION DEBRIS HAS BEEN REMOVED AND THE EQUIPMENT ROOM RACKS AND WIRE MANAGEMENT ARE DUST FREE.
 - E. SUPPLEMENTAL COOLING SYSTEM FOR THE ROOM IS OPERATIONAL AND THE FILTERS HAVE BEEN CHANGED AFTER STARTUP.
 - F. THE FIRE PROTECTION SYSTEM FOR THE ROOM IS COMPLETE.
 - G. ALL SLEEVES AND CORES IN THE ROOM HAVE BEEN PROPERLY FIRE SEALED.
 - H. SERVICE PROVIDER CABLING FROM THE BUILDING POP HAS BEEN RUN TO THE ROOM, HAS BEEN TERMINATED AND TESTED.

KEYNOTES

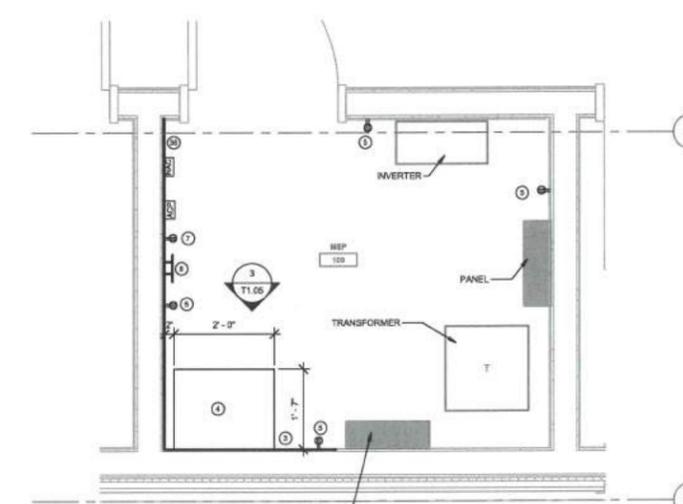
1. THREE (3) CONDUITS FOR SERVICE ENTRANCE CABLE.
2. 12" WIDE BASKET TRAY TO BE MOUNTED 7'-0" AFF. BASKET TRAY PLACEMENT TO BE IDENTIFIED BY LOW VOLTAGE INTEGRATOR.
3. 2'-0" WIDE (1'-0" X 2'-0") AC RATED PLYWOOD CUT TO FIT ALONG ENTIRE SIDE WALL. 1" AFF PAINTED WHITE WITH FIRE RETARDANT PAINT. CONTRACTOR SHALL NOT PAINT OVER LISTING LABEL.
4. WALL MOUNTED TECHNOLOGY CABINET
5. CONVENIENCE RECEPTACLES IN THIS ROOM AS SHOWN FOR REFERENCE ONLY. REFER TO ELECTRICAL DRAWINGS FOR CIRCUITING INFORMATION. (TYPICAL)
6. WALL TO WALL AC RATED PLYWOOD CUT TO FIT ALONG ENTIRE SIDE WALL. 1" AFF PAINTED WHITE WITH FIRE RETARDANT PAINT. CONTRACTOR SHALL NOT PAINT OVER LISTING LABEL.
7. 120V CIRCUIT IN SUPPORT OF SECURITY PANEL. REFER TO ELECTRICAL FOR CIRCUITING INFORMATION AND COORDINATE WORK BETWEEN TRADES.
8. TELECOMMUNICATIONS COPPER GROUNDING BUS BAR CONNECTED TO THE ELECTRICAL MAIN GROUND BAR. REFER TO DETAILS FOR MOUNTING HEIGHTS AND ADDITIONAL INFORMATION.



3 TECHNOLOGY FLOOR PLAN - ENLARGED ELEVATION



2 TECHNOLOGY FLOOR PLAN - ENLARGED RCP
3/4" = 1'-0"



1 TECHNOLOGY FLOOR PLAN - ENLARGED
3/4" = 1'-0"

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**LOWELL WEIGHT ROOM AND
CLASSROOM BUILDINGS
LOWELL SCHOOL DISTRICT**

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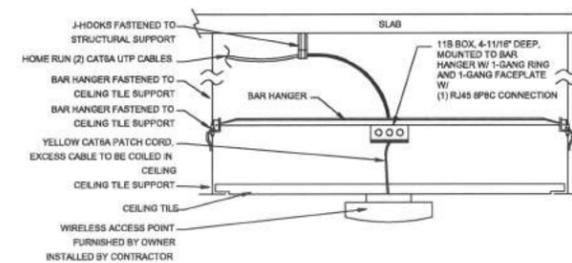
REVISIONS

NO	DESCRIPTION	DATE

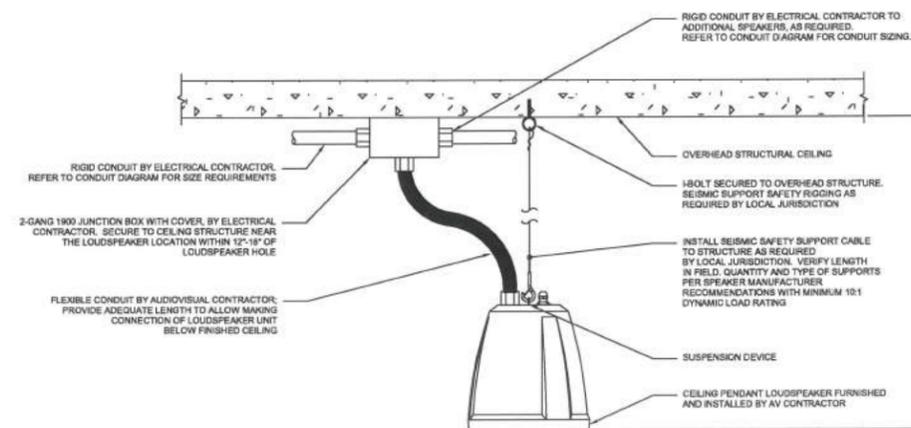
TECHNOLOGY DETAILS

PROJECT #	DATE
22011	08.22.2022

T3.00



1 WIRELESS ACCESS POINT DETAIL
NOT TO SCALE



2 PENDANT SPEAKER IN CONDUIT (TYPICAL) MOUNTING DETAIL
NOT TO SCALE

ATTACHMENT B



November 4, 2022

To: Henry O. Hearley
Associate Planner
Lane Council of Governments

Re: Lowell Weight Room Classroom Incompleteness Review – Approval Criteria

Henry,

The City of Lowell has adopted decision criteria for approval of site plan reviews. Following is a narrative explanation for each of the criteria.

1. That the proposed development complies with the Zoning District standards.

The property is currently zoned C2. Per the Lowell Land Development Code, Public or semi-public buildings qualify as a permitted use for the zone. The building complies with the setback requirements and is considered a two story building based on the parapet height.

2. That the proposed development complies with applicable provisions of city codes and ordinances

The proposed development is to my knowledge in compliance with all applicable provisions of City of Lowell codes and ordinances.

3. That the proposed development will not cause negative impacts to traffic flow or to pedestrian and vehicular safety and future street rights-of-way are protected.

Per the parking requirements in the Lowell Land Development Code, the proposed development requires two additional parking spaces. We estimate that those two spaces will generate no more than four new trips to the site per day. While a traffic study has not been commissioned, it is my assumption that four trips does not constitute a significant impact to the traffic flow on either Pioneer Street, or East Main Street. For pedestrians, the sidewalk will be replaced and separated from the street by a landscaped buffer, making it safer. Regarding the right of way, the existing curb will not be disturbed, and the existing center of right of way is farther from the center of the existing roadway, so I do not anticipate any impact on the ROW.

4. That proposed signs or lighting will not, by size, location, or color, interfere with traffic, limit visibility or impact on adjacent properties.

Exterior light fixtures have been submitted. They are intended to provide the required one foot candle of light for egress from the site to the public way. The fixtures have cutoff angles to restrict



spillage onto adjacent properties and do not have an upward lighting component. No signs are proposed.

5. *That proposed utility connections are available, have the capacity to serve the proposed development and can be extended in the future to accommodate future growth beyond the proposed land division.*

Attached is a report from Mazzetti Engineering that addresses these concerns.

6. *That the proposed development will not cause negative impacts to existing or proposed drainageways including flow disruptions, flooding, contamination or erosion.*

Attached is a report from Mazzetti Engineering that addresses these concerns.

7. *That the proposed development will not cause negative impacts, potential hazards or nuisance characteristics .as identified in Section 2.140, Item 21 of the Application Site Plan consistent with the standards of the Zoning District and complies with the applicable standards of all regulatory agencies having jurisdiction.*

It is anticipated that the proposed development will have a positive impact on the Lowell community. Additional classroom space is needed by the district and the weight room can serve both the students of Lowell Junior High / High School as well as the community at large as the school district sees fit. GLAS Architects, LLC and our consultants will comply with all applicable standards of the Zoning District as well as all regulatory agencies having jurisdiction.

8. *That developments within Lowell s Downtown, as defined by the Regulating Plan included in the Lowell Downtown Master Plan, are consistent with the policies of the Lowell Downtown Master Plan.*

The proposed development is consistent with the Lowell Downtown Master Plan, including providing a two-story façade, zero setbacks, elevations that address East Main Street, Landscape buffers between sidewalks and East Main (with irrigation). Additionally, this project improves lot coverage along East Main, which is one of the key components of the master plan. The building does not have an entry that fronts East Main as discussed in the pre-development meeting. This is necessary to allow for a easier connection to a future phase of the project that will incorporate a grand entry that does front East Main Street.

Sincerely

A handwritten signature in blue ink that reads "Chris Walkup". The signature is fluid and cursive, with the first name "Chris" and last name "Walkup" clearly legible.

Christopher Walkup, AIA
Principal | Member





CONSULTANTS



Engineering | Consulting
940 Wilamette Street, Suite 310
Eugene, OR 97401
541.686.8478
6400-002-18 C3.1_STRM.dwg

**LOWELL HIGH SCHOOL
LOWELL SCHOOL DISTRICT 71
65 S Pioneer Street, Lowell OR 97452**

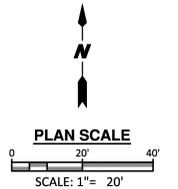
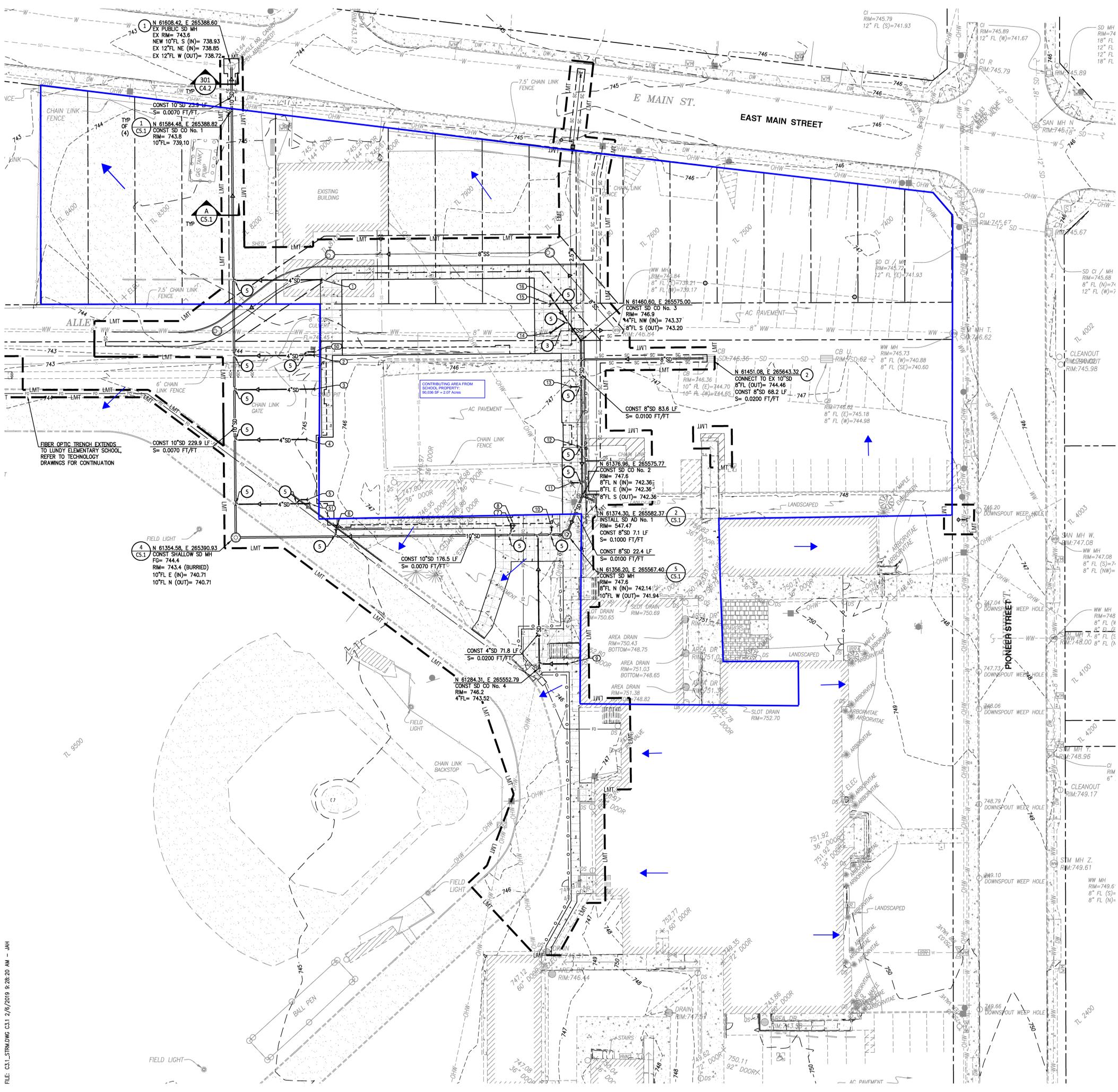
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△	REVISED

**SITE UTILITY PLAN
STORM DRAINAGE**

PROJECT #	DATE
17030	2/15/19

C3.1



SHEET NOTES

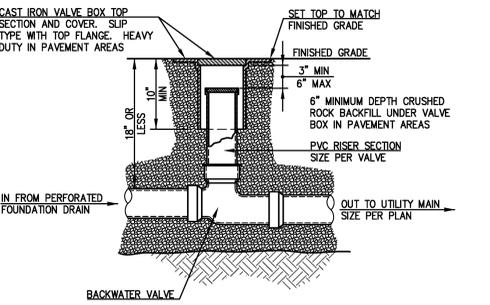
- REFER TO SHEET C3.1 FOR LEGENDS AND GENERAL NOTES.
- REFER TO SHEET C100 FROM THE PUBLIC IMPROVEMENT SANITARY SEWER RELOCATION DRAWING SET FOR SITE CONTROL POINTS.
- TRENCH BACKFILL WITHIN THE RIGHT-OF-WAY SHALL BE PER CITY OF LOWELL STANDARD DETAIL 301/C&2 WITH CLASS B BACKFILL. STREET CUT AND REPAIR SHALL BE PER OREGON STANDARD DRAWING RD302/C&2.

CONSTRUCTION NOTES

- CONNECT TO EXISTING PUBLIC STORM DRAIN MANHOLE. CORE EXISTING MANHOLE FOR NEW STORM DRAIN CONNECTION. PROVIDE WATER TIGHT CONNECTION AND RECONSTRUCT CHANNEL PER CITY OF LOWELL STANDARD DETAIL 319/C&2, MANHOLE BASE SECTION.
- CONNECT TO EXISTING CONCRETE CATCH BASIN THROUGH EXISTING 10-INCH OUTLET. PROVIDE WATER TIGHT GROUND CONNECTION AND INSTALL FLEX-TRANSITION COUPLER WITHIN 1 FOOT OF THE OUTSIDE WALL.
- BUILDING SEWER SERVICE CONNECTION, REFER TO PUBLIC IMPROVEMENT DRAWINGS FOR ADDITIONAL INFORMATION. REFER TO MECHANICAL/PLUMBING DRAWINGS FOR CONTINUATION.
- BUILDING ROOF DRAIN (RD) CONNECTION. PIPE SIZE, LENGTH, AND ELEVATION AS SHOWN. SLOPE 0.0200 FT/FT MINIMUM. PLUG END OF PIPE WITH MECHANICAL PLUG AND MARK FOR REFERENCE. COORDINATE FINAL LOCATION AND ELEVATION WITH BUILDING PLUMBER. REFER TO MECHANICAL/PLUMBING DRAWINGS FOR CONTINUATION.
- CONSTRUCT LATERAL SERVICE TO MAIN USING SHALLOW SERVICE CONNECTION PER DETAIL 7/C&2.1. SLOPE PIPE FROM FLOWLINE ELEVATION SPECIFIED AT UPSTREAM STRUCTURE TO VERTICAL DROP BETWEEN MINIMUM AND MAXIMUM SLOPES: S= 0.0100 FT/FT MIN AND S= 0.1000 FT/FT MAX.
- DELETE BUILDING ROOF DRAIN CONNECTION WITH THE ACCEPTANCE OF BID ALTERNATE 4, ADD WRESTLING ROOM TO NEW GYM.
- BUILDING FOUNDATION DRAIN (FD) CONNECTION. PIPE SIZE, LENGTH, AND ELEVATION AS SHOWN. SLOPE 0.0200 FT/FT MINIMUM. INSTALL BACKWATER VALVE (BWV) PER DETAIL 1/C&2.1. COORDINATE FINAL LOCATION AND ELEVATION WITH BUILDING PLUMBER. REFER TO ARCHITECTURAL DRAWINGS FOR CONTINUATION.

BUILDING UTILITY CONNECTION TABLE

POINT	NORTHING	EASTING	PIPE SIZE	FL ELEV	CONST NOTE	PIPE LENGTH
No. 1	61493.42	265436.81	4"	745.00	4	47.2 LF
No. 2	61452.72	265432.81	4"	745.37	4	42.8 LF
No. 3	61434.51	265432.98	4"	745.37	4	42.8 LF
No. 4	61407.38	265428.72	4"	745.37	4	38.3 LF
No. 5	61374.97	265429.13	4"	745.37	4	7.0 LF
No. 6	61358.86	265444.39	4"	745.37	4	3.8 LF
No. 7	61361.05	265537.71	4"	745.35	4	5.1 LF
No. 8	61361.06	265539.34	4"	745.37	4	3.2 LF
No. 9	61286.60	265567.82	4"	743.78	4	15.1 LF
No. 10	61360.25	265559.34	4"	745.37	4	4.1 LF
No. 11	61384.06	265570.04	4"	745.37	4	5.7 LF
No. 12	61403.84	265573.03	4"	745.37	4	2.5 LF
No. 13	61435.72	265569.56	4"	745.37	4	5.7 LF
No. 14	61464.77	265558.69	4"	745.37	4 AND 6	11.1 LF
No. 15	61480.23	265558.62	4"	745.37	4	2.5 LF
No. 16	61484.80	265558.51	4"	744.32	4	29.3 LF
No. 50	61454.55	265432.79	4"	746.72	7	6.6 LF
No. 51	61372.86	265430.22	4"	743.72	7	39.5 LF



NOTES:
1. TRACER WIRE SHALL ENTER STRUCTURE WITH RISER PIPE. PROVIDE ENOUGH FREE WIRE TO EXTEND 24" ABOVE FINISHED GRADE TO FACILITATE TESTING. WRAP WIRE AROUND END OF RISER PIPE.

SHALLOW BACKWATER VALVE
NO SCALE

ATTACHMENT C
CITY OF LOWELL
NOTICE OF PUBLIC HEARING
Mailing Date November 16, 2022

Notice is hereby given for a Public Hearing by the Lowell Planning Commission for a **Site Plan Review** for a new school weight room and classroom facility

The Hearing will occur on December 7, 2022, at 7:00 pm at the Lowell Rural Fire Protection Fire Station located at 389 North Pioneer.

Requested Action: new building fronting Main Street consisting of weight room, two classrooms, restrooms, storage and vestibules.

Owner/Applicant: Lowell School District (Jason Pickett, Facilities Manager)
Applicant's Representative: Chris Walkup
Property Location: 65 South Pioneer Street, Lowell, OR, 97452
Assessor Map: 19-01-14-23
Tax Lot: 8100
Existing Area: 0.41 acres
Existing Zone: C2 – Downtown Commercial

The Lowell Land Use Development Code specifies the applicable procedures and criteria for evaluation of the requested action. Applicable Code Sections include: **Section 9.250 Site Plan Review**, and **Section 9.204 Application Site Plan**. The specific criteria will be addressed in the Staff Report. See map on reverse.

A copy of the Application, all documents and evidence relied upon by the Applicant and the Staff Report containing the applicable criteria will be available for inspection at the Lowell City Hall at least seven days prior to the public hearing meeting.

Failure of an issue to be raised in the Hearing or by letter, or failure to provide sufficient detail to afford the decision makers an opportunity to respond to the issue precludes appeal to the Land Use Board of Appeals (LUBA) on that issue.

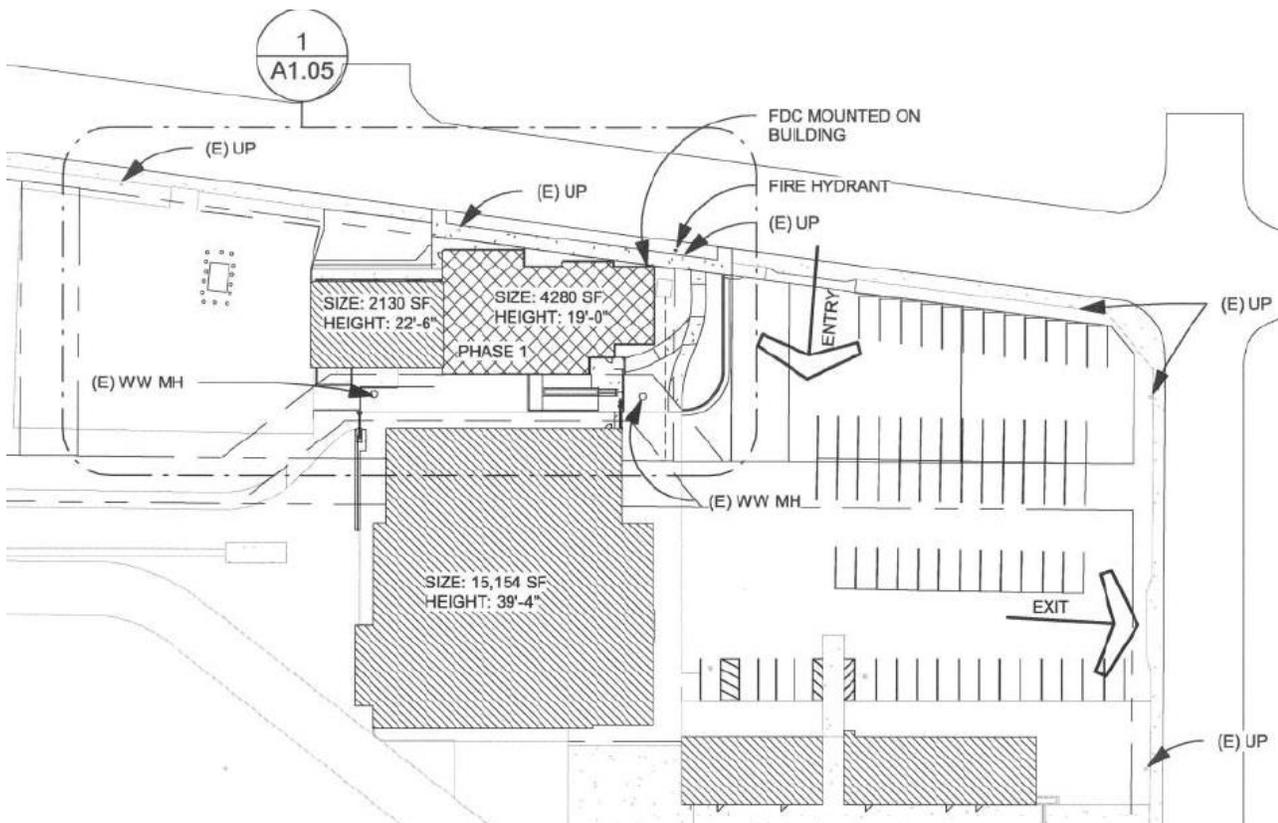
A Site Plan Review requires a Public Hearing. Oral testimony may be presented at the Hearing or written testimony may be delivered or mailed to the Lowell City Hall located at 107 East Third Street, Lowell, Oregon 97452 or emailed to Jeremy Caudle, City Administrator, at Caudle@ci.lowell.or.us. Or to Henry Hearley, Lane Council of Governments, 859 Willamette Street, Suite 500, Eugene, OR, 97401, hhearley@lcog.org 541-682-3089.

Written Testimony shall be received by the City no later than 4:00 pm on November 29, 2022.

For additional information please write to City Hall at the above address or call City Hall at (541) 937-2157 or to Henry Hearley at the address listed in this notice.

Henry Hearley
LCOG
hhearley@lcog.org
541-682-3089

tax lot in question (arrow indicating approximate area of proposed new development)



Owen Mary
PO Box 158
Lowell, OR 97452

City of Lowell
PO Box 490
Lowell, OR 97452

Aldinger Patrick & Kimberly
84536 Bountiful Dr
Fall Creek, OR 97438

Lowell School District #71
45 S Moss St
Lowell, OR 97452

J & K Property Holdings LLC
38001 Place Rd
Fall Creek, OR 97438

Stockdale Michael & Braydee
12 N Cannon St
Lowell, OR 97452

Lowell School District 71
65 S Pioneer St
Lowell, OR 97452

Lane County School District No 71
65 S Pioneer St
Lowell, OR 97452

Jenness Kathryn J
PO Box 45
Lowell, OR 97452

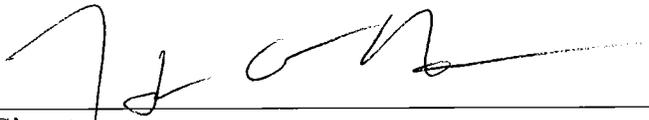
DeBusk Diana Lyn
208 E Main St
Lowell, OR 97452

Burchell Belinda
PO Box 123
Lowell, OR 97452

AFFIDAVIT OF MAILING

LANE COUNCIL OF GOVERNMENTS
859 Willamette Street. Suite 500
Eugene, OR 97401

I, Henry Hearley, contracted planner, depose and state that I mailed, by regular first-class mail, on November 16, 2022, a notice of a public hearing for site plan review for a property located at Map and Tax Lot 1901142308100 to the address contained herein. The application is also known as **LU 2022 05** – site plan review for Lowell School District gym expansion.



Signature

Henry Hearley

Print Name

ATTACHMENT D

HEARLEY Henry O

From: Matt Wadlington <Mwadlington@civilwest.net>
Sent: October 5, 2022 8:35 AM
To: HEARLEY Henry O
Cc: CAUDLE Jeremy; BAKER Max; DARNIELLE Gary L
Subject: RE: Referral Comment for Lowell School Gym Expansion LU 2022-05

Follow Up Flag: Follow up
Flag Status: Flagged

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Hi Henry,

I'd like to see calcs on what the flows are pre and post development, and a discussion regarding how they're going to address the difference.

Max, did we talk about the capacity I that section of the stormdrain line? I thought I recalled you bringing that up in the pre-app meeting.

--

Matt Wadlington, PE, Principal
Willamette Valley Regional Manager
Licensed in OR, WA, CA, AK
d 541.982.4373 | c 520.444.4220



Civil West Engineering Services, Inc.
200 Ferry St. SW, Albany, OR 97321
p 541.266.8601
www.civilwest.com

From: HEARLEY Henry O <HHEARLEY@Lcog.org>
Sent: Wednesday, October 5, 2022 8:01 AM
To: Matt Wadlington <Mwadlington@civilwest.net>
Cc: CAUDLE Jeremy <JCaudle@ci.lowell.or.us>; BAKER Max <mbaker@ci.lowell.or.us>; DARNIELLE Gary L <GDARNIELLE@lco.org>
Subject: RE: Referral Comment for Lowell School Gym Expansion LU 2022-05

Thanks, Matt.

My notes are not clear on that particular topic, but I do recall a discussion about general drainage and the city asking for preliminary drainage details. What would you like to see with respect to preliminary drainage?

Henry

From: Matt Wadlington <Mwadlington@civilwest.net>

Sent: October 3, 2022 2:28 PM

To: HEARLEY Henry O <HHEARLEY@Lcog.org>

Subject: RE: Referral Comment for Lowell School Gym Expansion LU 2022-05

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Thanks Henry,

For a completeness review, I'm primarily looking for grading, drainage, and utility information. I see the grading and utility information, but I don't see anything showing how they're dealing with the stormwater runoff. All I see is a footing drain, heading offsite. Was there a discussion during the pre-application meeting that discussed what we would require them to do? Seems to ring a bell, but I can't find my notes about it.

Thanks,

--

Matt Wadlington, PE, Principal

Willamette Valley Regional Manager

Licensed in OR, WA, CA, AK

d 541.982.4373 | c 520.444.4220



Civil West Engineering Services, Inc.

200 Ferry St. SW, Albany, OR 97321

p 541.266.8601

www.civilwest.com

From: HEARLEY Henry O <HHEARLEY@Lcog.org>

Sent: Monday, October 3, 2022 11:57 AM

To: Matt Wadlington <Mwadlington@civilwest.net>; BAKER Max <mbaker@ci.lowell.or.us>;

ODOTR2PLANMGR@odot.state.or.us; Alycia Lenzen <alycia.lenzen-hammerel@lanecountyor.gov>; TAYLOR Becky <becky.taylor@lanecountyor.gov>

Cc: CAUDLE Jeremy <JCaudle@ci.lowell.or.us>; CALLISTER Jacob (LCOG) <jcallister@lcog.org>; DARNIELLE Gary L <GDARNIELLE@lcog.org>

Subject: Referral Comment for Lowell School Gym Expansion LU 2022-05

Importance: High

All:

The City of Lowell is seeking comments on a proposed school gym expansion in Lowell, OR. The application is undergoing completeness review currently.

Please return any comments your respective agency has by end of day **October 11**.

Thank you,

Henry

Henry O. Hearley
Associate Planner
Lane Council of Governments
hhearley@lcog.org
541-682-3089

HEARLEY Henry O

From: LENZEN-HAMMEREL Alycia B <Alycia.LENZEN-HAMMEREL@lanecountyor.gov>
Sent: October 7, 2022 8:51 AM
To: HEARLEY Henry O
Cc: VARTANIAN Sasha
Subject: RE: Referral Comment for Lowell School Gym Expansion LU 2022-05

Follow Up Flag: Follow up
Flag Status: Flagged

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Hi Henry,

Thanks for reaching out to LC Transportation Planning for comment on this proposal. After reviewing the materials, it is Lane County's due diligence to ensure that this expansion won't have any significant impacts to Pioneer St/Jasper-Lowell Rd. We would just ask that the applicant or yourself on behalf of the applicant inform LCTP that this expansion will not significantly increase traffic volume or patterns. Further, if this expansion is foreseen to increase volume or influence peak hour trips - a traffic analysis may be require. Please let me know if you have any further questions or comments.

Thanks,

Alycia

Alycia Lenzen-Hammerel, LSIT
Engineering Associate
Transportation Engineering Services
Lane County Public Works
3040 N Delta Hwy, Eugene, OR 97408
Office: 541.682.6955



From: HEARLEY Henry O <HHEARLEY@Lcog.org>
Sent: Monday, October 3, 2022 11:57 AM
To: Matt Wadlington <Mwadlington@civilwest.net>; BAKER Max <mbaker@ci.lowell.or.us>;
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TAYLOR Becky <becky.taylor@lanecountyor.gov>
Cc: CAUDLE Jeremy <JCaudle@ci.lowell.or.us>; CALLISTER Jacob (LCOG) <jcallister@lcog.org>; DARNIELLE Gary L
<GDARNIELLE@lcog.org>

Subject: Referral Comment for Lowell School Gym Expansion LU 2022-05

Importance: High

[EXTERNAL 

All:

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Please return any comments your respective agency has by end of day **October 11**.

Thank you,

Henry

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