

Partial Tenant Improvement

111 W. Front Street - Elko, Nevada - APN 001 710 029

Owner

Food Bank of Northern Nevada 550 Italy Drive McCarran, Nevada 89434 775-331-3663

contact: Jenny Yeager jyeager@fbnn.org

Architect

421 Railroad Street ste 208 Elko, Nevada 89801 775-738-7829 contact: Catherine Wines catherine@r6studio.com

MP&E Engineer 5155 Patrick Lane

Las Vegas, Nevada 89118 725-266-7625 contact: Don Koch don.koch@nv5.com

General Contractor

Civil Engineer

Shanks Engineering

960 Idaho Street

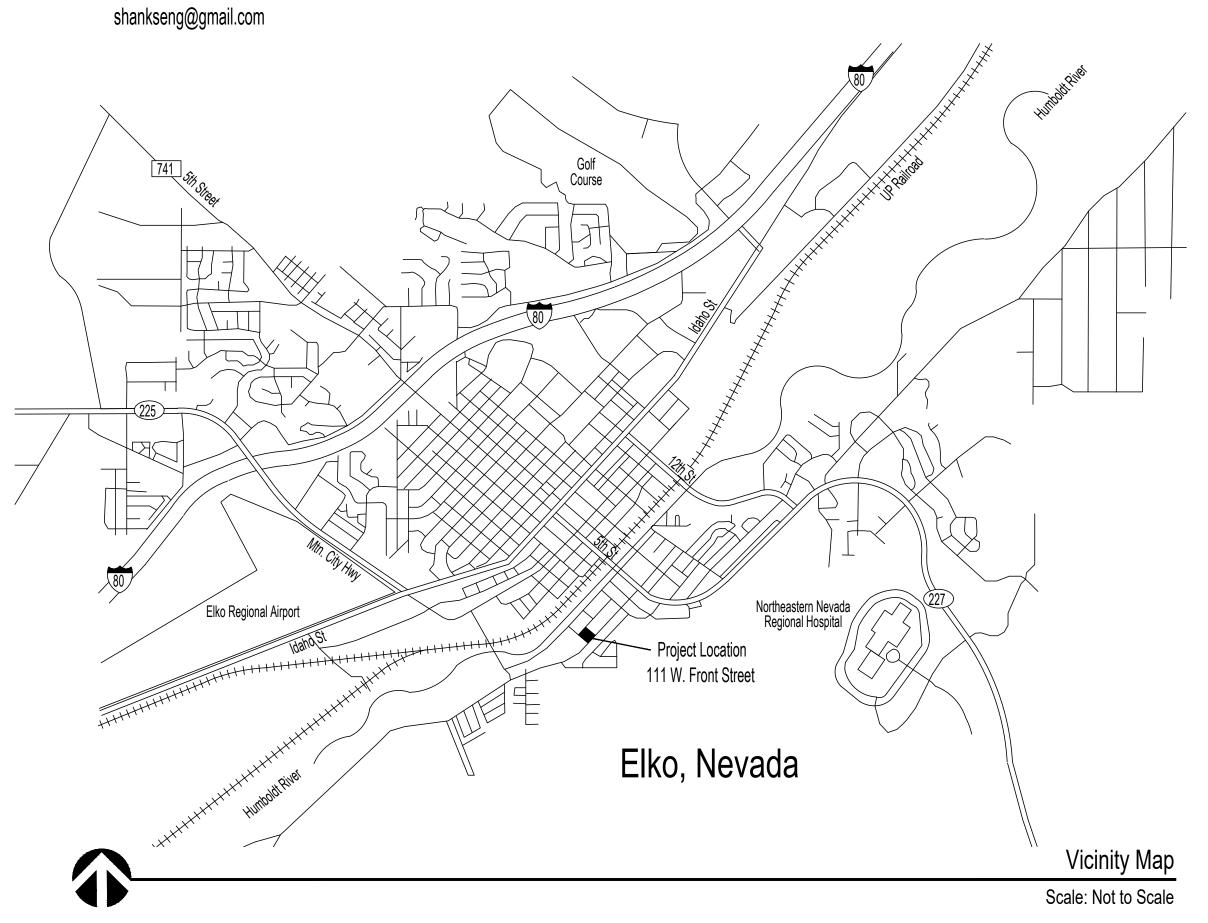
Elko, Nevada 89801

775-934-9356

contact: Mike Shanks

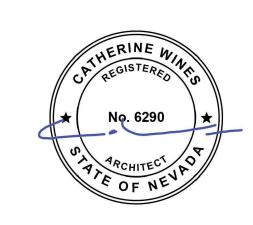
Sheet Index

General		Plumbing	
a0.1	Cover Sheet, Vicinity Map, Sheet Index	p0.00	Plumbing Cover Sheet
a0.2	General Notes, Project Scope of Work	p0.01	Plumbing Specifications
a0.3	Code Analysis, Accessibility Notes, Exit Plan	pd2.01	Plumbing Demo Plan
		p2.01	Plumbing Plan
Civil		p5.00	Plumbing Diagrams
c1.0	Civil Cover Sheet	p6.00	Plumbing Schedules
c2.0	Site Plan		
c3.0	Dock Plans & Elevations	Mechanical	
c4.0	Dock Details & Sections	m0.00	Mechanical Cover Sheet
c5.0	Overhead Door & Cooler Framing	m0.01	Mechanical Specifications
	·	md2.01	Mechanical Demo Plan
Architectural		m2.01	Mechanical Plan
a2.1	Existing Floor and Demo Plan	m5.00	Mechanical Diagrams
a2.2	New Floor Plan	m6.00	Mechanical Schedules
a2.3	Roof Plan		
a2.4	Reflected Ceiling Plan	Electrical	
a3.1	Exterior Elevations	e0.00	Electrical Cover Sheet
a3.2	Interior Elevations	e0.01	Electrical Specifications
a4.1	Details / Wall Sections	e0.02	Electrical IECC & Schedules
a5.1	Schedules	e1.00	Electrical Site Plan
a5.2	Specifications	ed1.01	Electrical Demo Plan
	•	e2.01	Electrical Power Plan
		e3.01	Electrical Lighting Plan
		e5.00	Electrical Single Line Diagram





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PROJECT NAME



SHEET NAME

Cover Sheet Vicinity Map Sheet index

REVISIONS

DATE

11.6.2025

SHEET NUMBER

a0.1

Drawing Abbreviations

Not to scale	n.t.s.
Not in contract	n.i.c.
Unless noted otherwise	u.n.o.
Above finish floor	a.f.f.
Pounds per square foot	p.s.f.
Pounds per square inch	p.s.i.
Square Feet	s.f.
Gypsum wall board	gyp. bd.
Diameter	dia.
Typical to all locations	typ.
Not Applicable to this project	NA

Applicable Codes

2018 International Building Code
2018 Uniform Mechanical Code
2018 Uniform Plumbing Code
2018 International Fire Code
2017 National Electrical Code
2018 International Energy Conservation Code
2019 ANSI A117.1
Nevada Administrative Code 477
Nevada Revised Statute
Northern Nevada Amendments

Deferred Submittals

To be submitted separately to the governing official

1- All exterior signage2- Fire sprinkler system - if owner choses to include3- Warehouse racking and seismic bracing design4- Walk-in cooler and freezer

Drawing Symbols



North Arrow



Room Name & Number



Detail



Elevation (single sided sim.)



Room signage

Fire Extinguisher

Project Scope of Work

1- This drawing package represents complete scope of work including architectural, civil, structural, plumbing, mechanical, and electrical construction for the overall project. The project is a remodel of an existing commercial building. The existing building is a pre-manufactured steel frame building that is in good condition based on inspection by the architect and professional engineer. No structural modification to the existing structure will take place under this permit.

2- The finished building will be owned by the Food Bank of Northern Nevada, they are a 501c3 non-profit organization with headquarters in the Reno, Nevada area.

3- The existing building was formerly owned by a public utility company. The building has a current, legal, certificate of occupancy that is legitimate and valid. No time lapse or occupancy change has occurred, with this project remodel, that will trigger a full code update of the existing site or building. A fire sprinkler system is not required to be installed but has been included in this as an alternate bid.

4- The portion of the building that will be altered must comply with the Americans with Disabilities Act of 1990 and the ADA Amendments act of 2010 requirements and laws because a significant portion of the building will be remodeled.

5- The portion of the building that will be altered must comply with 2018 International Building Code and all other laws, codes, regulations, and parameters, governing this jurisdiction set forth by the State of Nevada, the County of Elko, and the City of Elko and any other governing agency with jurisdiction over the project and any state or federal laws and requirements that entity has adopted.

6- Existing site conditions correspond with a good faith assessment by the design team. Any discrepancies of what is represented in this drawing set, at the building site in Elko, Nevada should be brought to the attention of the architect during bidding or prior to commencing work. The building and site are both currently built-out. There will be small modifications and upgrades to the site as represented in the civil drawings in this package.

7- As stated above, there is no structural modification to the existing pre-manufactured metal building, there will be minor additional structural design for a loading dock and exterior walk-in cooler and freezer, that will be added to the east side of the existing building. See structural plans and details in the civil sheets.

8- Bids should include all the work under this plan set. Please provide line item, alternative bid for the following items:

ALTERNATE 1 - ROOF REPLACEMENT - A full roof replacement as specified on a2.3 to include demolition of existing roof.

ALTERNATE 2 - FIRE SPRINKLER SYSTEM - Because the building is currently an occupied B and S-2 Occupancy and the occupancy group will not change under this permit, the code upgrade is not required for this project. The owner would like to explore installing a new sprinkler system for cost savings in insurance premiums. Please provide an alternate price for the fire sprinkler system with a fire riser being installed in Water Closet 120 near the new back flow preventor.

ALTERNATE 3 - PARKING LOT CHIP SEAL - The front portion of the parking lot is called to be sealed and re-striped, please provide line item bid to also seal and stripe the side parking area and fenced yard.

ALTERNATE 4 - REPLACE FRONT WINDOWS - Building elevation sheet shows removing two narrow windows and the wall between and replacing with one larger window at four locations at the front of the building.

ALTERNATE 5 - REPLACE SIDE WINDOWS - Please provide cost for an additional bid to replace the remaining windows on the east and west sides of the building with energy efficient replacements.

ALTERNATE 6 - EXTERIOR SIGN - Building elevation sheet shows a custom shape interior lit sign for the front mansard of the building that is approximately 30'x3'. Electricity for this signage is included in the electrical drawings. Even if the sign is not purchased at this time the electricity should be provided and stubbed off for future signage.

9- Specific addition of a loading dock, walk-in cooler, and walk-in freezer from a set manufacturer are included in this plan set. The walk-ins will be provided by the owner and installation will be provided by the manufacturer. Installation needs to be coordinated by the contractor. No alternative will be accepted for this equipment.

10- The construction of this project will be partially paid for using ARPA money from the United States Government administered through the State of Nevada Department of Agriculture. Because the grant is administered through the NDA, federal prevailing wage rates are NOT required for this project. Federal Buy American provisions are NOT required for this project. Federal requirements of the National Environmental Policy Act (NEPA) are NOT required for this project.

General Notes

1- Drawings represent the desired result of construction. The methods of construction and the risks involved during the construction are the responsibility of the contractor. The contractor shall maintain the buildings structural integrity at all stages of construction.

2- Contractor responsible for all demolition required to perform work.

3- All construction shall comply with requirements of the 2018 International Building Code along with other listed codes and all city, county, state and federal agencies having jurisdiction with a modified order of understanding with the Building Department of the City of Elko.

4- The contractor shall verify all dimensions and elevations prior to the commencement of work.

Discrepancies in the dimensions which may be found shall be brought to the attention of the architect for a decision before proceeding with work. Do not scale drawings.

5- All construction and finish materials proposed by the contractor and/or dictated by construction documents shall be reviewed for general compliance by the architect through a formal submittal process prior to commencing work and shall be approved by the Architect prior to commencing work.

6- As a minimum standard all work performed and materials installed shall be in accordance with all applicable codes, regulations and ordinances having jurisdiction.

7- Install all manufacturers items, materials and equipment in strict accordance with manufacturers recommendations unless otherwise specifically noted by the Architect.

8- Dimensions on plans are to the face of the studs or structural columns unless noted otherwise. Dimensions on large scale drawings govern over dimensions on small drawings or details.

9- Contractor to follow provided dimensions on drawings, if a necessary dimension is missing the contractor shall notify the architect for clarification before proceeding. Do not scale drawings.

10- Size, placement and orientation of structural framing members on structural drawings override members shown on architectural drawings.

11- Sprinkler, Plumbing, Mechanical, Electrical, or any other contractors shall not penetrate or cut any structural members without prior written approval of the Architect and the Structural Engineer.

12- The General Contractor shall maintain a complete current set of drawings at the construction site during all phases of construction for use by all trades.

13- The General Contractor shall coordinate with the owner the locations for construction traffic during the construction phase.

14- The General Contractor is responsible for obtaining all permits required to perform all work included in these documents.

15- A separate permit is required for all exterior sign installation.

16- The General Contractor is responsible for obtaining temporary power and all costs associated with temporary facilities.

17- Contractor to provide all owners manuals and warranties prior to final payment. All equipment and finish materials to be new and of the highest available commercial grade quality. All products are to be approved by the architect prior to installation.

18- 'UL' numbers listed in these documents are based on the most current issue of Underwriters Laboratories Inc. Fire Resistance Directory.

19- The General Contractor is responsible for protecting all existing site features and fixtures that are to remain. Any damage to these areas will be repaired or replaced at the expense of the contractor.

20- All work in these drawings and specifications consists of furnishing all labor, equipment, and materials necessary for and reasonably incidental to the complete construction of the building. These include but are not limited to minor details not specifically mentioned or shown that are necessary to complete the construction, subject to the terms and conditions of the contract.

21- All work in this project shall be done in accordance with the best modern construction practice using high grade new equipment and materials. Workmanship and all construction practices must be a neat appearance and will be inspected at the same level of scrutiny as the performance of the entire building.

22- All applicable portions of Division 1 GENERAL REQUIREMENTS shall be included and strictly adheared to, any conflict noted in the drawings shall be immediately brought to the attention of the Architect for written clarification.

23- The contractor is to notify the Owner, Architect and Engineer of any conflict in the drawings and shall not proceed until they have received written clarification executed by all parties, including the Owner

24- These drawings are the property of the Architect and to be used solely with respect to this project. These documents shall not be reused or reproduced in any form without the written permission of the Architect.



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PROJECT NAME



Tenant Impro

SHEET NAME

General Notes
Project Scope
Project Parameters

REVISIONS

DATE

11.6.2025

SHEET NUMBER

a0 2

Exit Plan Legend

Number of occupants to exit at this location

Exit Plan Notes

1- There is not a location in the warehouse that is greater than 64' to an exit.

2- Exit discharge to comply with IBC 1104.1

Cooler Dock Freezer Pantry Office Of

Accessibility Notes

1- Walks and sidewalks subject to these regulations shall have a continuous common surface, not interrupted by steps or by abrupt changes in level exceeding 1/2" inch and shall be a minimum of 48 inches in width.

2- Surfaces with a slope of less than 6 percent gradient shall be at least as slip resistant as that described as medium salted finish.

3- Surfaces with a slope of 6 percent gradient or greater shall be slip-resistant. Surface cross slopes shall not exceed 1/4" per foot.

4- Walks, sidewalks and pedestrian ways shall be free of gratings whenever possible. For gratings located in the surface of any of these areas, grid openings in gratings shall be limited to 1/2" in the direction of traffic flow.

5- Abrupt changes in level along any accessible route shall not exceed 1/2". When changes in level do occur, they shall be beveled with a slope no greater than 1:2 except that level changes not exceeding 1/2" may be vertical.

6- Floors at landings shall not be more than 1/2" lower than the threshold of the doorway. When changes in levels greater than 1/2" are necessary, they shall comply with the requirements for curb ramps.

7- All accessible entrances shall be identified with at least one standard sign and with additional directional signs, as required, visible from approaching pedestrian ways.

8- Every required entrance or passage doorway shall be of a size as to permit the installation of a door not less than 3 feet in width and not less than 6 feet, 8 inches in height. Doors shall be capable of opening at least 90 degrees and shall be so mounted that the clear width of the doorway is not less than 32 inches.

9- Latching and locking doors that are hand activated and which are in a path of travel shall be operable with a single effort by lever type hardware, panic bars, push-pull activating bars, or other hardware designed to provide passage without requiring the ability to grasp the opening hardware.

10- Hand activated door opening hardware shall be centered between 30 inches and 44 inches above the floor.

11- Door hardware shall be openable from the inside without use of a key or special knowledge or

12- Bathroom accessories, such as grab bars, towel bars, soap dishes, etc., on or within walls shall be sealed against moisture and comply with all height requirements listed in these plans and required by current code.

13- Above floor flush valves shall be mounted on the wide side of toilet area and within 40 inches of the floor. The force required to activate the controls shall not exceed 5 pounds.

14- Hot water and drain pipes under accessible lavatories shall be insulated or otherwise covered. There shall be no sharp or abrasive surfaces under lavatories. Faucet controls shall be operable with one hand and shall not require tight grasping, pinching, or twisting of the wrist. The force required to activate the controls shall not exceed 5 pounds. Lever-operated, push-type and electronically controlled mechanisms are acceptable.

15- All exit doors are to swing in the direction of travel from a space with more than 50 occupants.

16- The portion of the building that will be altered must comply with the Americans with Disabilities Act of 1990 and the ADA Amendments act of 2010 requirements and laws because a significant portion of the building will be remodeled.

Code Analysis

Governing Design Factors D0 Earthquake Zone 90 m.p.h. Wind Speed Frost Depth Loads Roof dead load 15 p.s.f. Roof live load or snow load 30 p.s.f. 20 p.s.f. Floor dead load 50 p.s.f. Floor live load 20 lbs. Snow load Exposure Soil bearing 1,500 psi Soil report may over ride typical bearing pressure

Occupancy Classification

S-2

Total	11,440 s.f.	40	
uilding Classification			
Type of construction		Type V - B	
Allowable area		9,000 s.f.	
with fire sprinkler system thron applicable to existing, or	• ,	36,000 s.f.	
Actual area		11,440 s.f.	
including covered exterior ar	eas		
Allowable height (stories)		3	
with fire sprinkler system thro	oughout	4	
Actual height (stories)		1	

Low-hazard Storage

Size

3,590 s.f.

7,850 s.f.

Occupant Load

24 (150)

16 (500)

Fire Resistance

Fire sprinklers provided through-out?

Fire sprinklers may be provided as an alternate bid, see bid documents

If a fire sprinkler system is accepted it must comply with all current codes

Fire alarm system with visual sensors, and fire monitoring?

No

Fire alarm system with audio warning system?

No

Fire walls required

No

Install fire extinguishers at all required areas as per IFC 906

All fire extinguishers are to be placed in recessed, lockable cabinets into the wall

Exits

⊏XIIS		
	Exits required (.3" per occupant, min of 2) 33.9" total	(2) w/36" door
	Exits provided	(4) 36" doors

each exit is with-in 64' of any place in the building

Plumbing (per IBC Table 29)

Fixtures required

1 per 25 (women) and per 25 (men) occupants, 1 per 50 after 50
4 total occupants equals 50 women, 49 men
1 women, 1 men required

Fixtures provided

3 unisex, 1 non-ADA

Drinking fountain - 1 per 100 - 1 required

New, portable, electric controlled water cooler to be provided in place of

required drinking fountain

Mop sink - 1 required

1 provided in janitor closet

Landscaping

Landscaping required - 15% of open space

Landscape provided - 16% of open space. Landscape is existing and to be considered compliant because the existing building has a current, legal, certificate of occupancy Parking

Existing parking to remain

See civil drawings

Address & Signage

Building Address numbers to be placed at door 101A in 12" with a min 1" stroke metal letters, in a contrasting color, in Arabic numbers, above the door opening, coordinate location with Elko Fire Marshall.

FIRE RISER ROOM (if applicable) to be painted on door 120 in a contrasting color, coordinate with architect and Elko Fire Marshall.

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PROJECT NAME



SHEET NAME

Accessibility Notes Code Analysis Exit Plan

REVISIONS

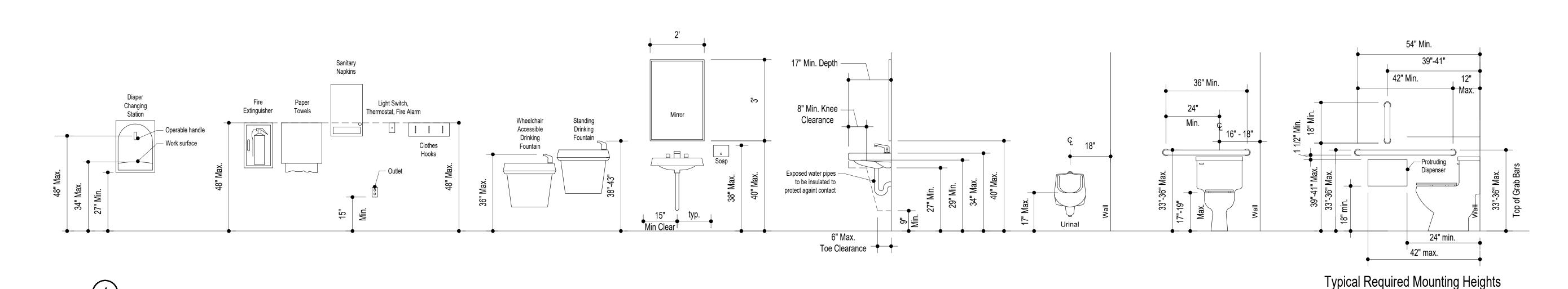
DATE

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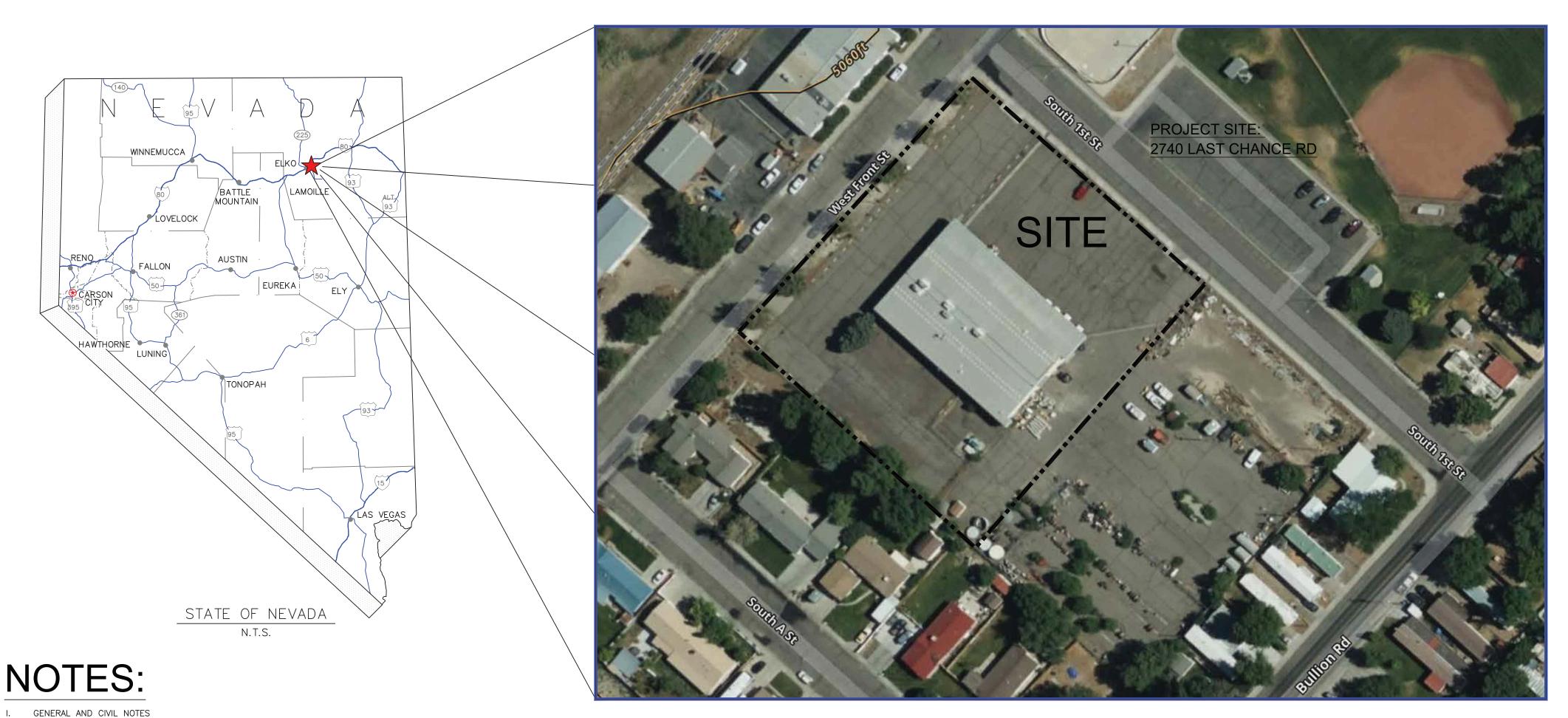
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a0.3



FOOD BANK OF NORTHERN NEVADA CIVIL CONSTRUCTION DRAWINGS

ELKO, NEVADA **CONSTRUCTION DRAWINGS**



SHEET INDEX

C1.0	TITLE SHEET
C2.0	SITE PLAN
C3.0	DOCK PLAN AND ELEVATIONS
C4.0	DOCK DETAILS
C5.0	OVER-HEAD DOOR, WALK IN COOLER & FRAMING DETAILS

PARCEL INFORMATION

SITE ADDRESS: 111 W FRONT ST ELKO, NEVADA 89801 OWNER: FOOD BANK OF NORTHERN NEVADA INC.

CONSULTANT

PROJECT NAME



SHEET NAME

SHE TTE

REVISIONS ISSUE FOR REVIEW

NSHANKS

11/6/25

11-06-2025

18. ALL CONCRETE PLACED ON THIS PROJECT SHALL COMPLY WITH THE LATEST EDITION OF THE ORANGE BOOK AND SHALL BE AN APPROVED MIX DESIGN. ALL PCC CURB, GUTTER, SIDEWALK, SLABS & APRONS, AND MANHOLES SHALL BE CLASS AA OR DA PORTLAND CEMENT CONCRETE WITH 4,000 PSI MINIMUM (AT 28 DAYS), 4% TO 7% AIR ENTRAINMENT, AND USE NO. 67 AGGREGATE,

UNLESS OTHERWISE SPECIFIED. THESE STRUCTURES SHALL BE CAST IN PLACE OR APPROVED PRECAST. NO CONCRETE SHALL BE PLACED UNTIL FORMS AND BASE COURSE ARE INSPECTED BY THE OWNER OR HIS ASSIGNED AGENT. ROAD SURFACING MATERIAL SHALL CONFORM TO THE SPECIFICATIONS FOR TYPE 2 PLANTMIX BITUMINOUS PAVEMENT AND SHALL BE COMPACTED TO 96% MINIMUM DRY DENSITY, BASED ON THE MARSHALL UNIT WEIGHT. ASPHALT CEMENT SHALL BE PG 6422 OR

STRUCTURAL FILL SHALL BE COMPACTED TO 90% COMPACTION. THE TOP 6" OF SUBGRADE UNDER TRAFFIC AREAS SHALL BE COMPACTED

TO 95% COMPACTION. COMPACTION SHALL BE PER ASTM D1557. 21. AGGREGATE BASE UNDER ROADWAYS AND CONCRETE SHALL BE TYPE II CLASS B AGGREGATE BASE AND SHALL CONFORM TO SECTION 200.00-2 OF THE STANDARD SPECIFICATIONS. AGGREGATE BASE UNDER PARKING AREAS SHALL BE COMPACTED TO 95% COMPACTION. AGGREGATE BASE UNDER NON TRAFFIC AREAS SHALL BE COMPACTED TO 90% COMPACTION. COMPACTION SHALL BE PER ASTM D1557.

THE DESIGN OF GAS, TELEPHONE, TV, AND ELECTRIC SHALL BE BY THE RESPECTIVE UTILITY COMPANIES. ALL UTILITIES SHOWN ON THESE PLANS ARE FOR GENERAL ARRANGEMENT AND TO SHOW POTENTIAL CONFLICTS ONLY.

ADJUST ALL EXISTING UTILITY STRUCTURES TO FINISHED GRADE.

VERTICAL AND HORIZONTAL SEPARATION OF ALL WATER AND SEWER (SANITARY AND STORM) UTILITIES SHALL BE MAINTAINED PER NAC. ENGINEER AND CONTRACTOR TO REFERENCE SECTION 445A.6715 TO SECTION 445A.6718 OF THE NEVADA ADMINISTRATIVE CODE FOR UTILITY SEPARATION AND CLEARANCES. VERTICAL CLEARANCE BETWEEN WATER LINES AND ALL OTHER EXISTING OR PROPOSED SANITARY OR STORM SEWER, GAS TELEPHONE, TV AND ANY OTHER LINES, SHALL BE A MINIMUM OF 18".

25. ALL WATER MAINS SHALL BE CLASS 350 C-900 OR DUCTILE IRON PIPE, WITH POLYETHYLENE ENCASEMENT, OR DR18 C900 PVC PIPE, UNLESS OTHERWISE SHOWN OR SPECIFIED BY G.B.W.C.. ALL CONSTRUCTION TO BE AWWA C-600 OR AWWA C-605 COMPLIANT AS APPROPRIATE. MINIMUM COVER OVER THE WATER MAINS SHALL BE NO LESS THEN 42". ALL WATER SERVICE LINES SHALL BE AS SHOWN ON PLANS, COPPER TUBE SIZE (CTS) RATED 200 PSI POLYETHYLENE UNLESS OTHERWISE SHOWN.

STRUCTURAL NOTES DESIGN INFORMATION AND LIVE LOADS USED: 2018 INTERNATIONAL BUILDING CODE (IBC)

GROUND SNOW LOAD 50 PSF (SEE CALCS) ROOF DEAD LOAD FLOOR LIVE LOAD WIND ZONE 115 MPH, EXPOSURE C SEISMIC ZONE ZONE D

2. FOUNDATIONS SPREAD FOOTINGS ARE TO BE FOUNDED ON THE NATURAL SOIL OR COMPACTED STRUCTURAL FILL. SPREAD FOOTINGS ARE DESIGNED FOR A MAXIMUM ALLOWABLE SOIL BEARING PRESSURE OF 1,500 PSF WITH ALLOWABLE INCREASES.

COMPRESSIVE STRENGTH AT 28 DAYS SHALL BE AS FOLLOWS: 3,500 P.S.I.(5 SACK MIN) FOR FOOTINGS, 4,000 PSI FOR (6 SACK MINIMUM) FOR WALLS.

4. REINFORCING STEEL SHALL CONFORM TO ASTM A615, GRADE 40.
MINIMUM CLEAR CONCRETE PROTECTION FOR REINFORCEMENT SHALL BE AS FOLLOWS UNLESS NOTED OTHERWISE: 3 INCHES FOR CONCRETE PLACED DIRECTLY AGAINST EARTH.

1-1/2 INCHES FOR FORMED SURFACES EXPOSED TO WEATHER OR EARTH. 3/8" FOR PRECAST CONCRETE NOT EXPOSED TO WEATHER OR IN CONTACT WITH GROUND. CENTER OF SLAB FOR SLABS ON GRADE.

REINFORCING SHALL BE CONTINUOUS THROUGH ALL CONSTRUCTION JOINTS LAPPED SPLICES SHALL BE DESIGNED IN CONFORMANCE WITH THE CURRENT IBC. NO TWO ADJACENT BARS ARE TO BE SPLICED IN THE SAME LOCATION UNLESS SHOWN OTHERWISE.

ABBREVIATIONS:

B.C. B.V.C. B.S. C.I.P. C.B. CL CH C.M.P. CONC. C.P. C.R. D.I. D.I.P. DET. E EL. ELEV. E.C. E.V.C. EXIST.	BEGIN VERTICAL CURVE BACK OF SIDEWALK CAST IRON PIPE CATCH BASIN CENTERLINE CHORD CORRUGATED METAL PIPE CONCRETE CONCRETE PIPE CURB RETURN DROP INLET DUCTILE IRON PIPE DETAIL ELECTRICITY, ELECTRICAL ELEVATION ELEVATION END OF CURVE END OF VERTICAL CURVE EXISTING EXISTING GRADE FINISH	F. F. G G G G H N I.E. L H M P. P. P. P. P. P. P. P. R. R. R. R.
		R
F.F.C	FRONT FACE OF CURB	R'

GEOTHERMAL	M.H
GATE VALVE	S.S
GRADE BREAK	S.S.C
HORIZONTAL	SEC
INTERSECTION	S.W
INVERT ELEVATION	S
LEFT	SHT
LINEAR FEET	STA
MANHOLE	S.D
PAD ELEVATION	T
POINT OF INTERSECTION	T
POINT OF REVERSE CURVE	TEL
POINT ON TANGENT	T.B.C
POINT OF VERTICAL CURVE	
POLYVINYL CHLORIDE PIPE	T.C
PROPERTY LINE	T.P
RADIAL	TYP
RADIUS	T.S.W
REFERENCE	VERT
REINFORCED CONCRETE PIPE	V.C
RIGHT	V.P.I
	W

LT	LEFT
L.F	LINEAR FEET
M.H	MANHOLE
S.S	SANITARY SEWER
S.S.C	SANITARY SEWER CLEANOUT
SEC	SECTION
S.W	SIDEWALK
S	SLOPE
SHT	SHEET
STA	STATION
S.D	STORM DRAIN, STORM SEWER
T	TANGENT
T	TELEPHONE
TEL	TELEPHONE
T.B.C	TOP BACK OF CURB
T.O.C	TOP OF CONCRETE
T.C	TOP OF CURB
T.P	TOP OF PAVEMENT
TYP	TYPICAL
T.S.W	TOP OF SIDEWALK
VERT	VERTICAL
V.C	VERTICAL CURVE
	VERTICAL POINT OF INTERSECTION
W	WATER

14. THE CONTRACTOR SHALL HAVE A STAMPED AGENCY APPROVED SET OF PLANS AT THE WORK SITE DURING CONSTRUCTION. CONSTRUCTION SHALL NOT PROCEED UNTIL THIS SET OF PLANS IS ISSUED WITH INCLUDED REVISIONS AND COMMENTS MADE 15. ALL AREAS DISTURBED AND LEFT UNDEVELOPED FOR A PERIOD OF MORE THAN 30 DAYS SHALL BE STABILIZED BY THE APPLICATION

1. THE COORDINATE SYSTEM AND THE TOPOGRAPHY SHOWN ON THE PLANS ARE SHANKS ENTERPRISES INC, LLC FIELD SURVEY OF JUNE, 2025. THE BASIS OF BEARING IS THE NORTH AMERICAN DATUM OF 1983/94 (2011), NEVADA

THE SITE PLAN, DETAILS, ALL REVISIONS, AND ALL OTHER DRAWINGS AND DOCUMENTS ISSUED FOR THIS PROJECT

CONTRACTOR SHALL CALL UNDERGROUND SERVICES ALERT AT 811 AT LEAST TWO FULL BUSINESS DAYS PRIOR

6. ALL WORK IS SUBJECT TO MODIFICATION, DEPENDING ON FIELD REQUIREMENTS OR CONDITIONS OF THE PROJECT SITE.

OF REPOSE WILL BE ALLOWED IN ALL OTHER AREAS; CITY OF ELKO - OSHA STANDARDS MINIMUM.

11. ALL CONTRACTORS ARE RESPONSIBLE FOR MAINTAINING ONSITE SPEED LIMITS OF THEIR PERSONNEL.

ATTENTION OF THE PROJECT ENGINEER BEFORE PROCEEDING WITH THE WORK.

10. THE CONTRACTOR SHALL MAINTAIN AN ONGOING PROCESS FOR REMOVAL OF SPILLAGE OF EXCAVATED MATERIAL OR

TRACK OUT ON ALL PAVED STREETS. CONTRACTORS WILL LIMIT ACCESS AND EGRESS TO TRACK OUT LOCATIONS.

12. CONTRACTOR TO ENSURE ALL APPLICABLE PERMITS HAVE BEEN OBTAINED PRIOR TO EXCAVATING WITHIN ANY RIGHT OF WAY.

13. THE CONTRACTOR SHALL FIELD VERIFY, ALL ELEVATIONS, DIMENSIONS, FLOW LINES, EXISTING CONDITIONS, AND POINTS OF CONNECTIONS WITH ADJOINING PROPERTY (PUBLIC OR PRIVATE). ANY DISCREPANCIES SHALL BE CALLED TO THE

EFFECTED UTILITY COMPANIES 48 HOURS PRIOR TO COMMENCEMENT OF WORK.

FACILITIES THAT ARE TO BE LEFT IN PLACE.

SHOWN ON THE PLANS OR SPECIFICATIONS, REFER TO THE "STANDARD SPECIFICATIONS".

TO EXCAVATION. IN ADDITION. THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER, CITY OF ELKO, AND ALL

EAST ZONE (2701) COORDINATES USING THE CITY OF ELKO GIS. THE BASIS OF ELEVATION IS CITY OF ELKO GIS DATUM

THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY AND ALL DAMAGE TO THE EXISTING UTILITIES ENCOUNTERED DURING CONSTRUCTION. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO CONTACT THE UTILITY COMPANIES FOR LOCATIONS

PRIOR TO CONSTRUCTION. HORIZONTAL AND VERTICAL LOCATIONS OF EXISTING UTILITIES ARE APPROXIMATE ONLY. THE

4. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS OR THE STANDARD SPECIFICATIONS FOR PUBLIC

WORKS CONSTRUCTION, LATEST ADOPTED ("STANDARD SPECIFICATIONS"). FOR INFORMATION ON SPECIFICATIONS OR DETAILS NOT

THE CONTRACTOR SHALL MAINTAIN A 24 HOUR DUST CONTROL AND EROSION CONTROL PROGRAM, INCLUDING WATERING OF OPEN

7. THE CONTRACTOR SHALL PROTECT FROM DAMAGE DURING CONSTRUCTION ALL EXISTING STRUCTURES, UTILITIES, PAVING, AND OTHER

8. THE CONTRACTOR SHALL MAINTAIN POSITIVE DRAINAGE AND PROVIDE EROSION CONTROL MEASURES AT THE PROJECT SITE, AT ALL

9. EXCAVATION SHALL BE AS NEARLY VERTICAL AS POSSIBLE (SHEET AND SHORE IF SOIL CONDITIONS REQUIRE) IN EXISTING STREET

SECTIONS, ALLEY SECTIONS, AND CONFINED AREAS, SUCH AS LIMITED EASEMENTS OR ADJACENT TO STRUCTURES. NATURAL ANGLE

AREAS. DUST CONTROL PROGRAM SHALL BE IN COMPLIANCE WITH ALL FEDERAL, STATE, COUNTY AND CITY CODES AND ORDINANCES.

2. ALL ELEVATIONS AND SLOPES SHOWN ON THE SHANKS ENTERPRISES PLANS ARE TO THE TOP OF FINISHED GRADE (FG,TC. OR AC)

AT THE SURFACE COURSE. THE INFORMATION PROVIDED ON THE GRADING AND DRAINAGE PLAN MUST BE SUPPLEMENTED WITH

ANY CONFLICTS WITHIN THESE DRAWING AND DOCUMENTS OR ANY QUESTIONS REGARDING FINISHED SUBGRADE ELEVATIONS SHOULD

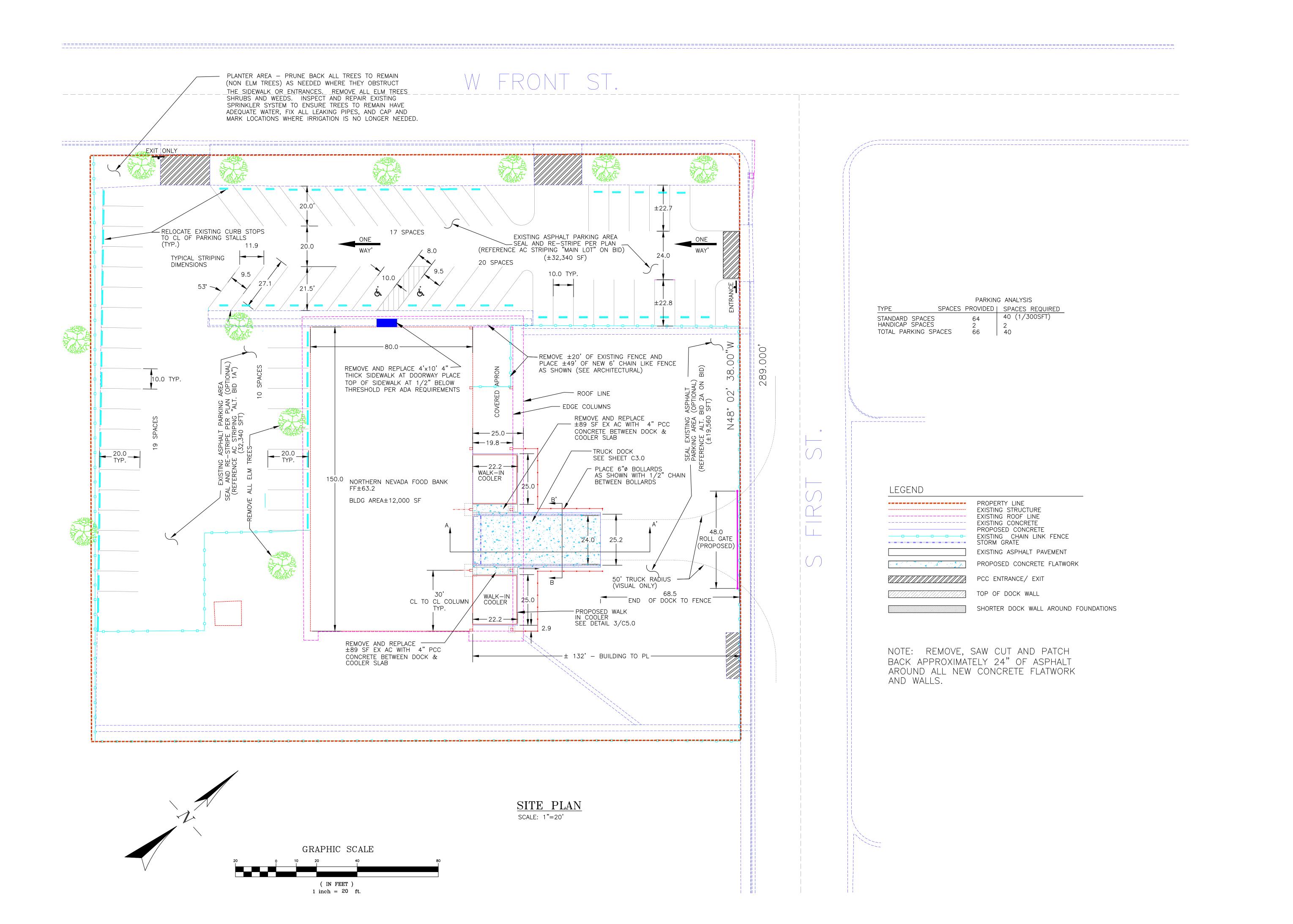
16. ACCESS TO THE SITE AND FIRE HYDRANT MEET REQUIREMENTS OF NFPA 1142-SECTION 7.5. THE OWNER SHALL MAINTAIN THE ROAD SURFACE TO THE FIRE HYDRANT AND SURROUNDING STRUCTURES YEAR ROUND AND PROVIDE ACCESS FOR THE DESIGN FIRE TRUCK AS OUTLINED IN IFC SECTION 507 AND NFPA 1142 SECTION 7.5.

17. GRADING AROUND BUILDINGS TO BE DONE IN A MANNER AS TO PROVIDE POSITIVE DRAINAGE AWAY FROM BUILDING IN ACCORDANCE WITH ELKO COUNTY AND BUILDING CODE REQUIREMENTS.

RIGHT OF WAY

RIGHT OF WAY

R-O-W



CONSULTANT

Enterprises

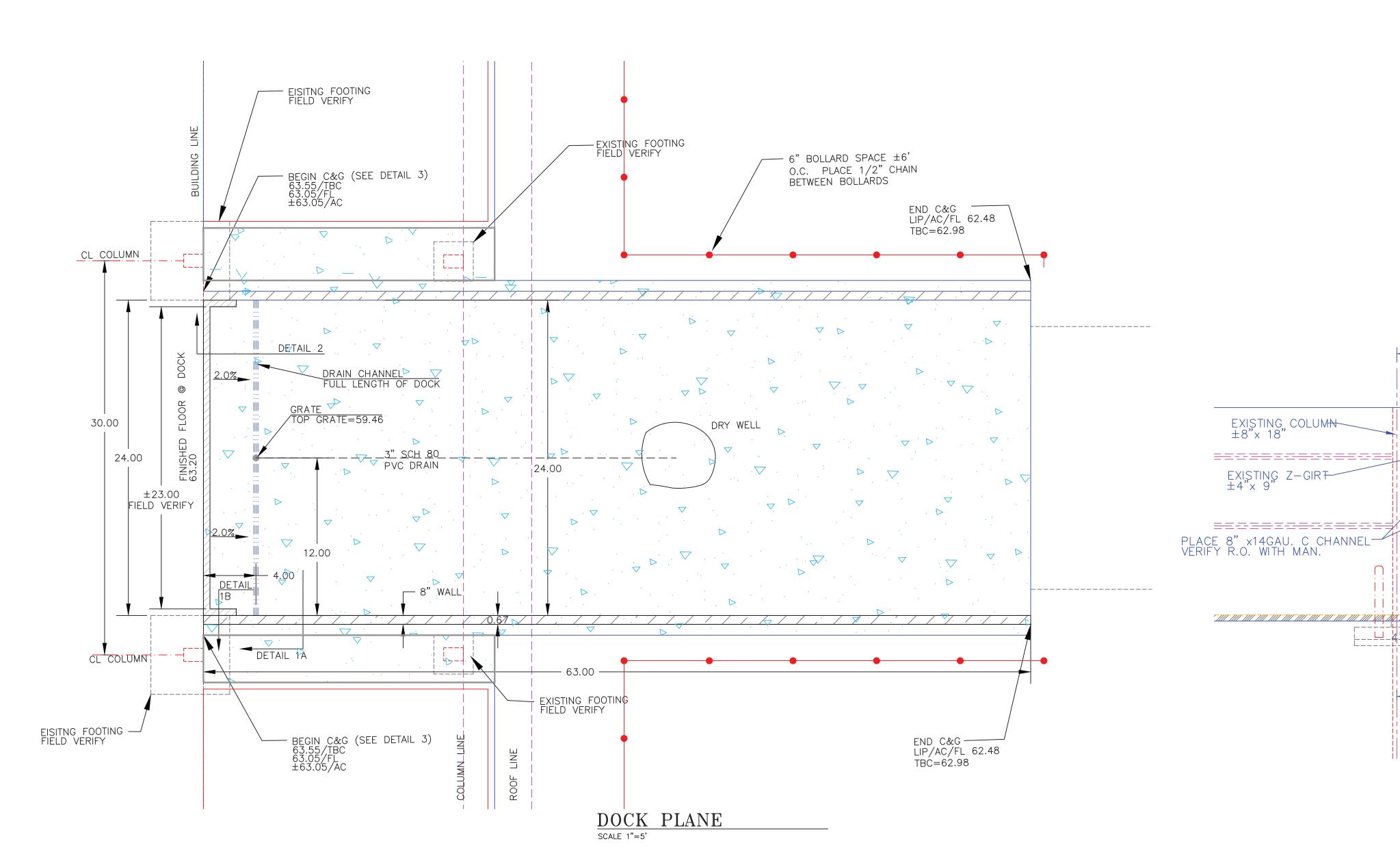
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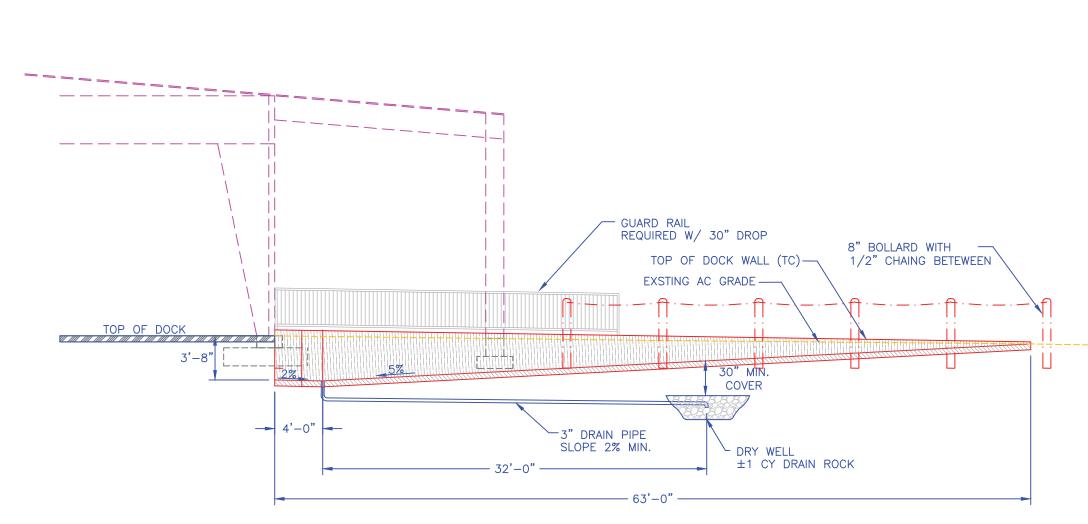


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DOCK ELEVATION B-B'

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Shanks

PROJECT NAME

2'-11"

— 15'−0" ------

SCALE 3/16"=1'

ELEVATION A-A'

FOOD BANK

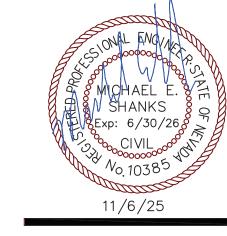
12'x10' ROLL ====

- EXISTING 6'X6' COLUMN FOOTING VERIFY SIZE & PLACE WALL AT FACE OF FOOTING

UP DOOR

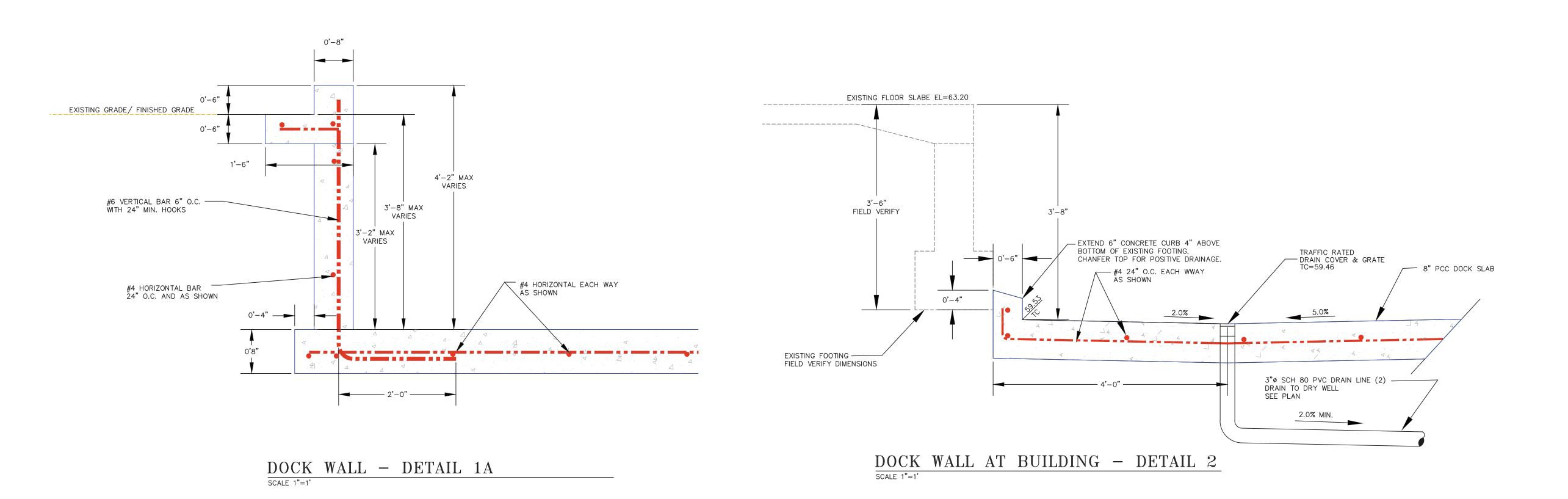
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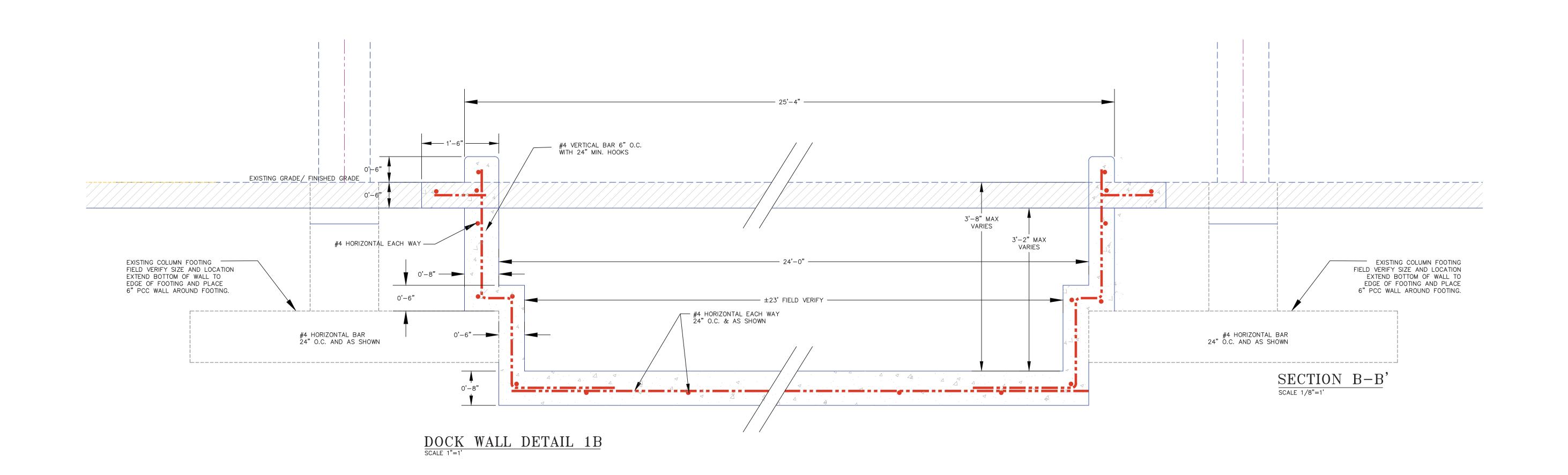
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11-06-205





CONSULTANT

Shanks,

Enterprises Michael E. Engineer:

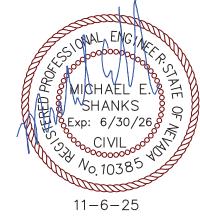
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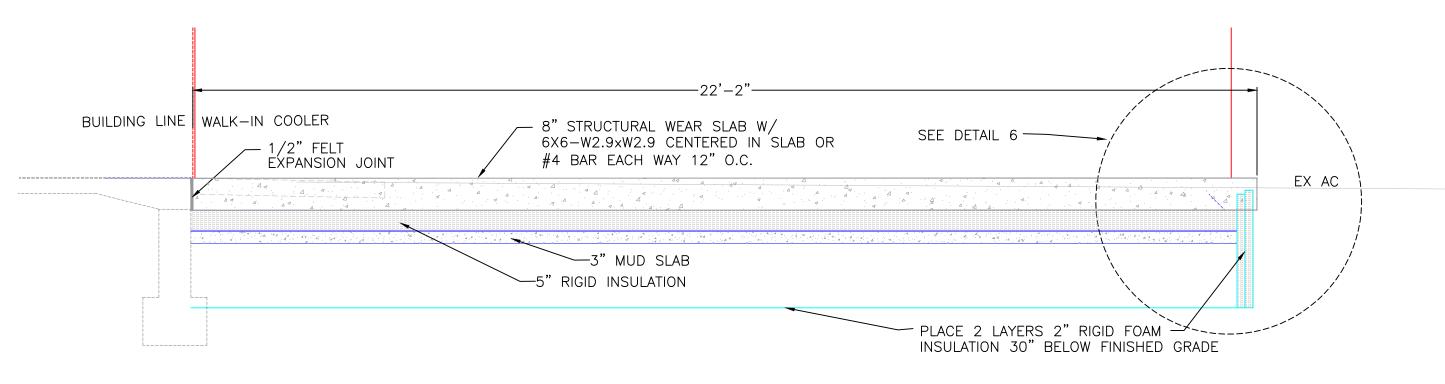
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DOCK DETAILS & SECTIONS

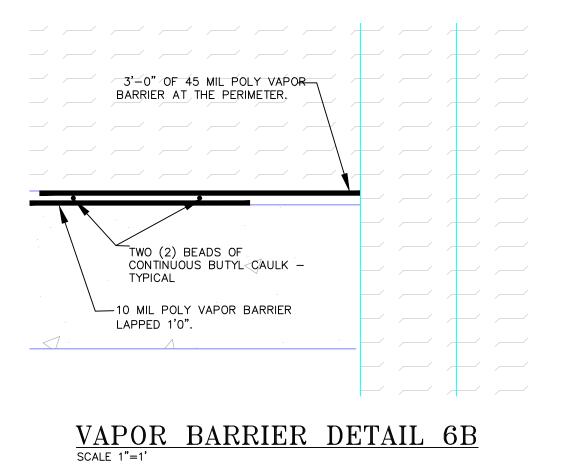
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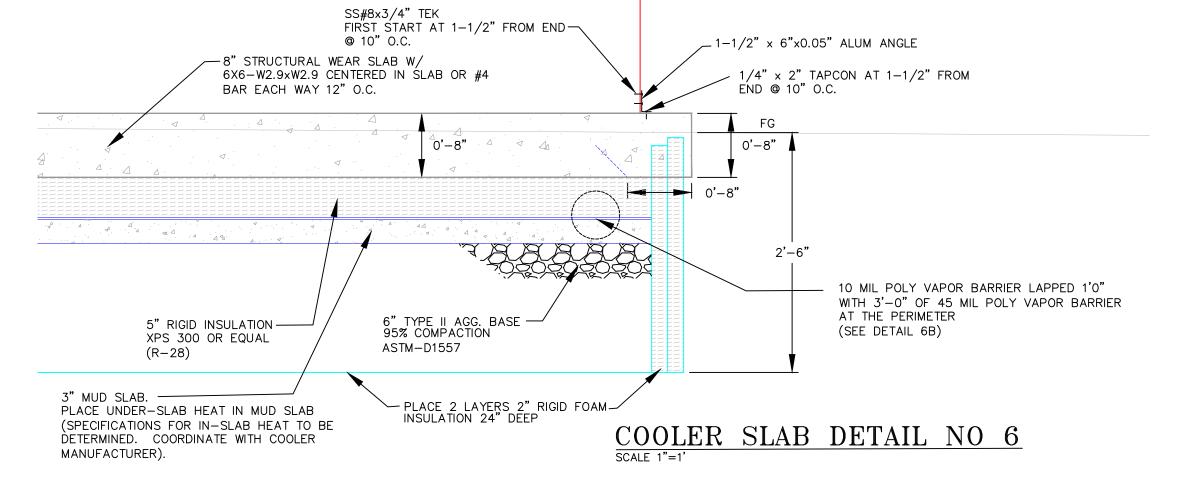


11-06-2025









OVERHEAD DOOR WALL FRAMING SECTION - DETAIL 4

7 GAUGE ANGLED BASE PLATE WITH (2) 6"x5/80 WEDGE ANCNHOR

1'-2" $1'-1\frac{1}{8}"$

9"(VERIFY)

14 GUAGE L BRACKET
CONECT TO EXITING COLUMN
AND C-CHANNEL WITH
5/8" BOLTS

Z-GIRTS TO MATCH EXISTING
 14 GAUAGE x 9" OR 8" ESTIMATED
 FIELD VERIFY TO MATCH EXISTING

- CONNECT INSIDE ANGLE
WITH (2) 5/8" FLAT HEAD BOLT
TYPICAL ALL CONNECTION ON
EXTERIOR OF OHD OPENING

CONSULTANT

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SHEET NAME

WALK-IN COOLER & FRAMING OVERHEAD DOOR

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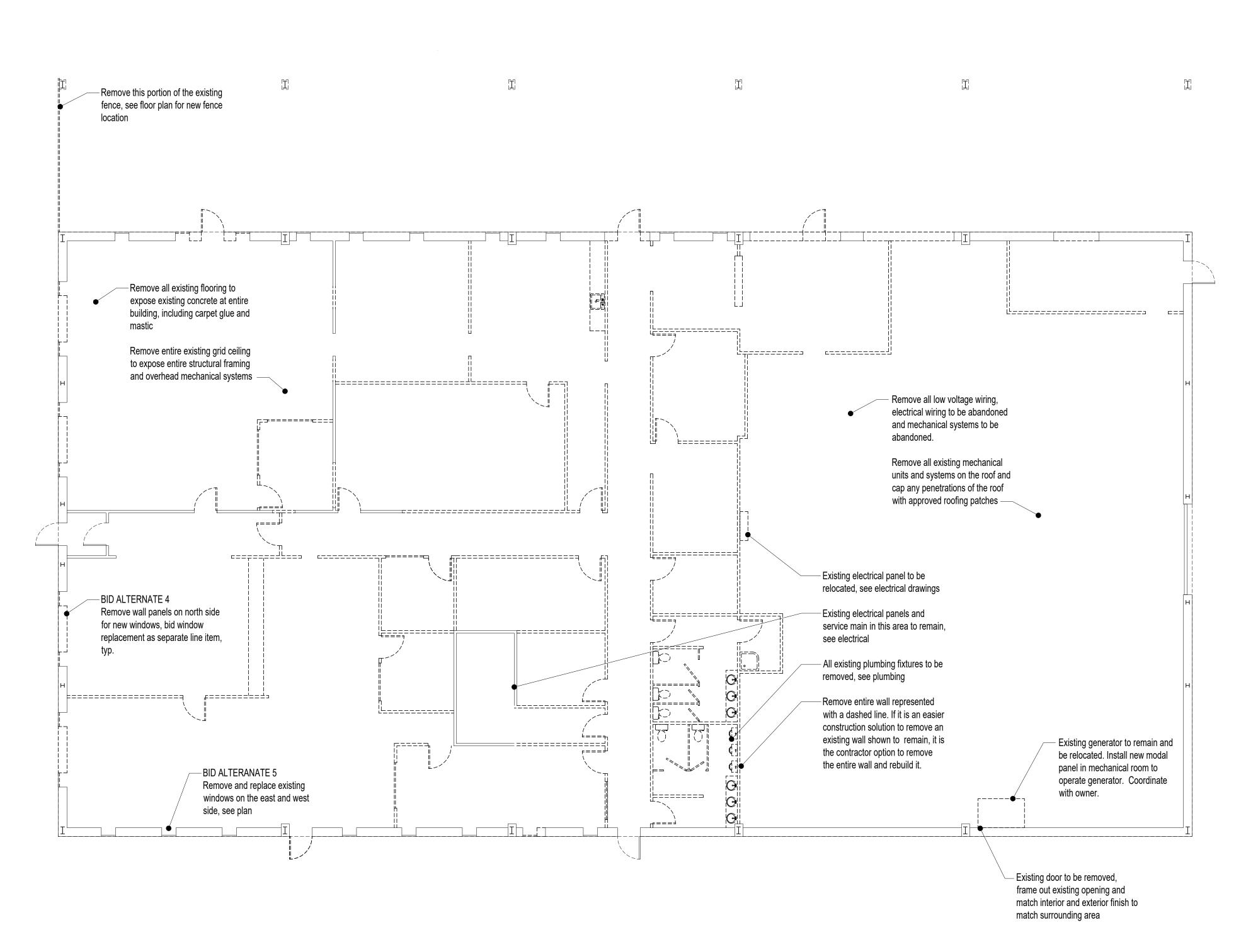
Demolition Notes

- 1- The contractor shall field verify all existing conditions prior to the commencement of work. Any discrepancies shall be brought to the attention of the architect. No demolition work shall commence without field verification by the contractor, owner, and the architect.
- 2- It is the contractors responsibility to locate and remove all mechanical, electrical and miscellaneous equipment as required to complete the work. Refer to specific discipline sheets in this drawing set for demolition information.
- 3- The contractor shall provide all temporary structural bracing required during demolition to safely complete the work.
- 4- Any portion of the project to remain which is damaged as a result of construction activity shall be repaired or replaced to match pre-construction existing condition.
- 5- The contractor shall coordinate and arrange for the disconnection of all utilities and equipment with the owner and all applicable utility companies. Contractor shall cap off all unused utilities in a manner satisfactory to the owner, the architect and the utility company.
- 6- The contractor shall remove, disconnect and salvage all mechanical, electrical, plumbing and miscellaneous wall mounted equipment that is slated for reconnect and reinstallation and store them in a secure location for reconnect and reinstallation.
- 7- The contractor shall allow no debris to accumulate on the site or in the building. Immediately remove all debris and dispose of it in a safe acceptable manner. Contractor is responsible for all debris removal.
- 8- The owner has first right to all salvage items. Items not claimed by the owner shall become the contractors responsibility and shall be promptly disposed of from the site.
- 9- It is the contractor's responsibility to provide secure, dry storage with-in the designated contractor lay down area or an area designated by owner for owner retained items.
- 10- Contractor has the option to remove entire wall, when part of the wall is to be demolished.
- 11- Entire grid ceiling, existing lights, and all low voltage systems, including visible wiring, to be removed and demolished, ensure all existing wiring is safe before removal. All wiring to be replaced based on electrical drawings.
- 12- Remove all existing flooring, including carpet, under-layment, glue, mastic and anything else existing to expose the original concrete slab floor.
- 13- All plumbing fixtures will be removed and relocated protect existing plumbing lines that will be reused. Cap off existing plumbing that will not be reused below or at the finish slab level.

Demolition Legend

Existing wall to remain

 \equiv \equiv \equiv Existing wall, door, window, and / or plumbing fixtures to be removed





Existing and Demo Building Floor Plan

Scale: 1/8" = 1'-0" - Do Not Scale Drawings



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PROJECT NAME



SHEET NAME

Existing Floor Plan Demolition Plan

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a2

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PROJECT NAME

Tenant Improvement

Town Street

SHEET NAME

Vew Floor Plan

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New Building Floor Plan

Scale: 1/8" = 1'-0" - Do Not Scale Drawings

11.6.2025

SHEET NUMBER

a2.2

File number 25-006 - FBNN, Elko City



- 1- All building signage must be highly visible and easily read and comply with all code and ADA requirements. All exterior signage to be a deferred submittal.
- 2- 2A:10BC portable fire extinguishers for 'ordinary' or 'moderate' Class A fire hazards shall be located within 75 feet of any location in the building. All fire extinguishers are to be located in a recessed, stainless steel or aluminum, lockable cabinet. All portable fire extinguishers to comply with IFC section 906. Exact location to be approved by local fire authority prior to installation.
- 3- Warehouse, freezer, and cooler are used to store food product. Based on definitions from IBC 307 there are no hazardous materials that will be stored in this location.
- 4- All plumbing walls to be 6" with sound attenuation batt insulation.
- 5- All interior finish materials to be Class B or better to comply with the requirements in IBC 404.8.
- 6- Room names on this plan reflect how the building will be used, room names and numbers for final signage to be coordinated with owner, this plan numbering system does not reflect possible final room numbering.
- 7- The Pantry is a room that will be used to disperse product to members of our community in need of social assistance. This is not a retail space, there will be no exchange of money. It should be considered an open office environment where business services, including social services are completed. No food service will take place on site. Only packaged food to be carried out will be provided at this location.
- 8- All dimensions to be field verified, alert architect of discrepancies prior to construction.
- 9- Contractor to verify the existing doors and existing hardware that will remain comply with the requirements of IBC 1010.
- 10- The building address identification is to be plainly visible from the street with contrasting background, with characters that are minimum 4" high and 1/2" stroke width.

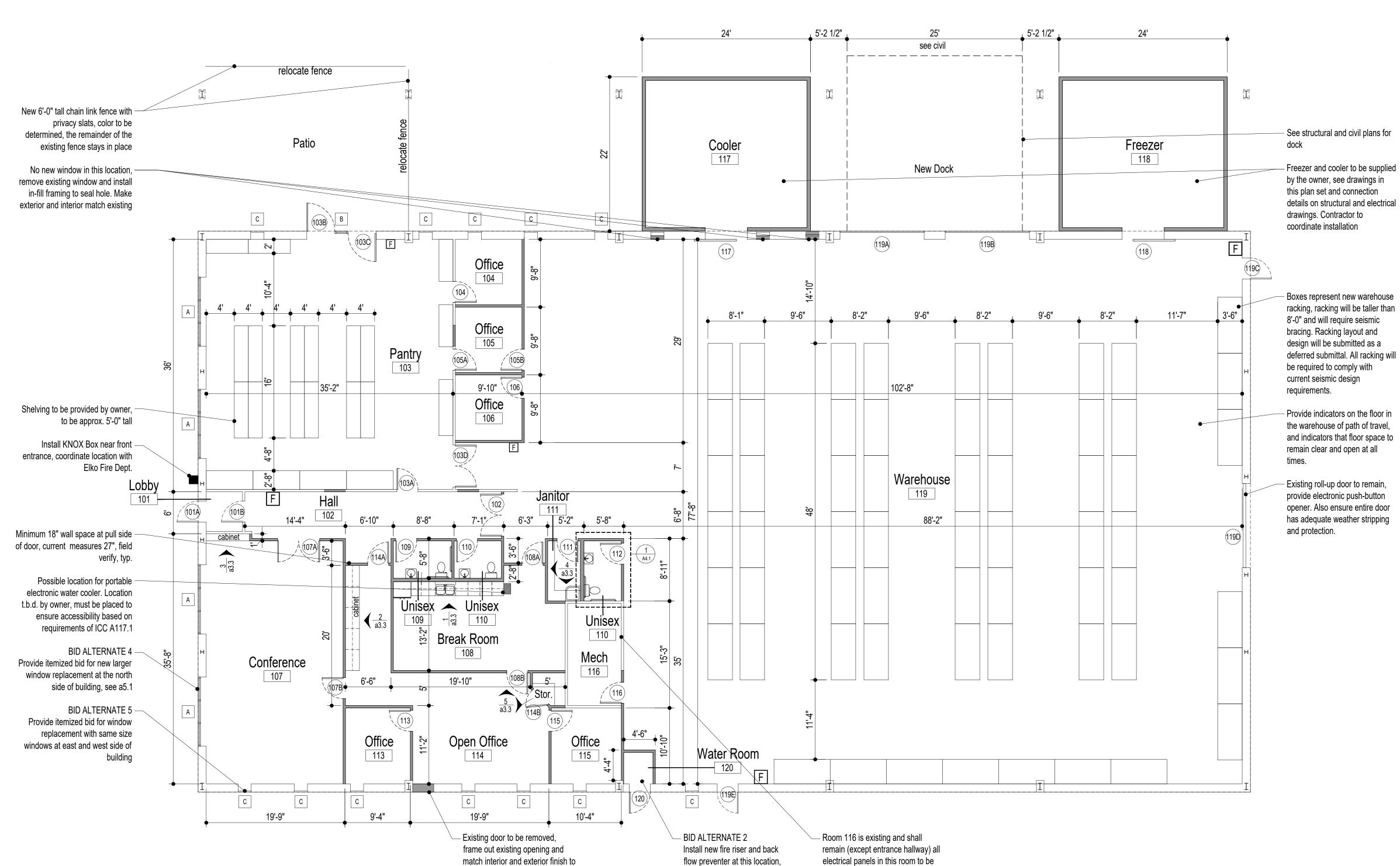
Wall Legend

New 2x cold rolled metal stud wall. Studs to be 16" o.c. with R-21 batt insulation at all exterior locations. All exterior and plumbing walls to be 2x6. All interior, non-plumbing walls to be 2x4. Sound attenuation insulation at all restroom walls and other locations as noted. All walls to be finished with 5/8" gyp bd. Tape, texture, and paint t.b.d.

Existing wall to remain

New window, see window schedule for sizes

F Indicates location of type 2A Fire Extinguisher



field verify size will be adequate

repuropsed, see electrical plans

match surrounding area

ENTIRE SHEET IS BID ALTERNATE 1

Roof Plan Notes

1- not used

2- Whether the roof is replaced or not, all existing mechanical units to be removed under this permit. If the existing roof remains, patch all existing penetrations. See mechanical plans.

IF ROOF IS REPLACED FOLLOW THE NOTES BELOW:

1- New 24 ga. standing seam metal roof to cover entire building. Install roof and under-layment per manufacturers recommendations, basis of design, and in compliance with warranty details. Under-layment to cover entire roof surface.

2- All roof insulation to remain undisturbed and undamaged during roof installation. Any insulation that is damaged must be replaced prior to completion of roof installation.

3- All eave locations to have new, seamless, aluminum rain gutters and downspouts. Downspouts to be closed face, go to the ground, and extend 1'-0" away from the building with 1'-0" splash blocks. All downspouts that terminate at a sidewalk location are to have a trench drain embedded in the sidewalk, where side walk is being replaced, the entire width of the sidewalk to daylight at curb location.

4- Provide flashing and coping at all roof locations where sloped roof meets vertical wall. Color to match roofing material as closely as possible using a standard color option.

5- No roof ventilation is required on the exterior. All ventilation to be done inside through open ceiling, see mechanical drawings for return air locations.

6- Roof access to be with portable ladder as needed.

7- All gutters, downspouts, vents, decorative roof bracing to be painted to match roof.

9- Aluminum soffit to have ventilation holes for added ventilation at all eave and covered patio locations.

10- Ice shield under-layment required at all drop off drainage locations. Install ice shield under-layment per manufacturers recommendations.

11- All plumbing vents to be installed as required by manufacturers specifications with aluminum, ridge flashing to prevent leaks. All bents to be painted to match existing roof.

12- Plumbing contractor to verify all plumbing vent sizes. All vents to be installed to comply with current plumbing code.

13- All plumbing vents to be painted to match roof.

14- All eave locations and exterior ceilings to be vented aluminum soffit installed horizontally.

						[
	Line of wall below —			Slope 2:12 approx		
Replace flashing, coping and entire weather proof system for water tight seal at roof soffit	Remove existing mechanical—units and cap off penetrations with approved metal roof patches, insulate interior side of roof patch, typ.		Ri	idge		
plumb option to u o demo	I location of required ong vents, contractor se an existing vent if the is exposed during stion that will provide to comply with code	• Vent	ā	Slope 2:12 approx		



Building Roof Plan

Scale: 1/8" = 1'-0" - Do Not Scale Drawings



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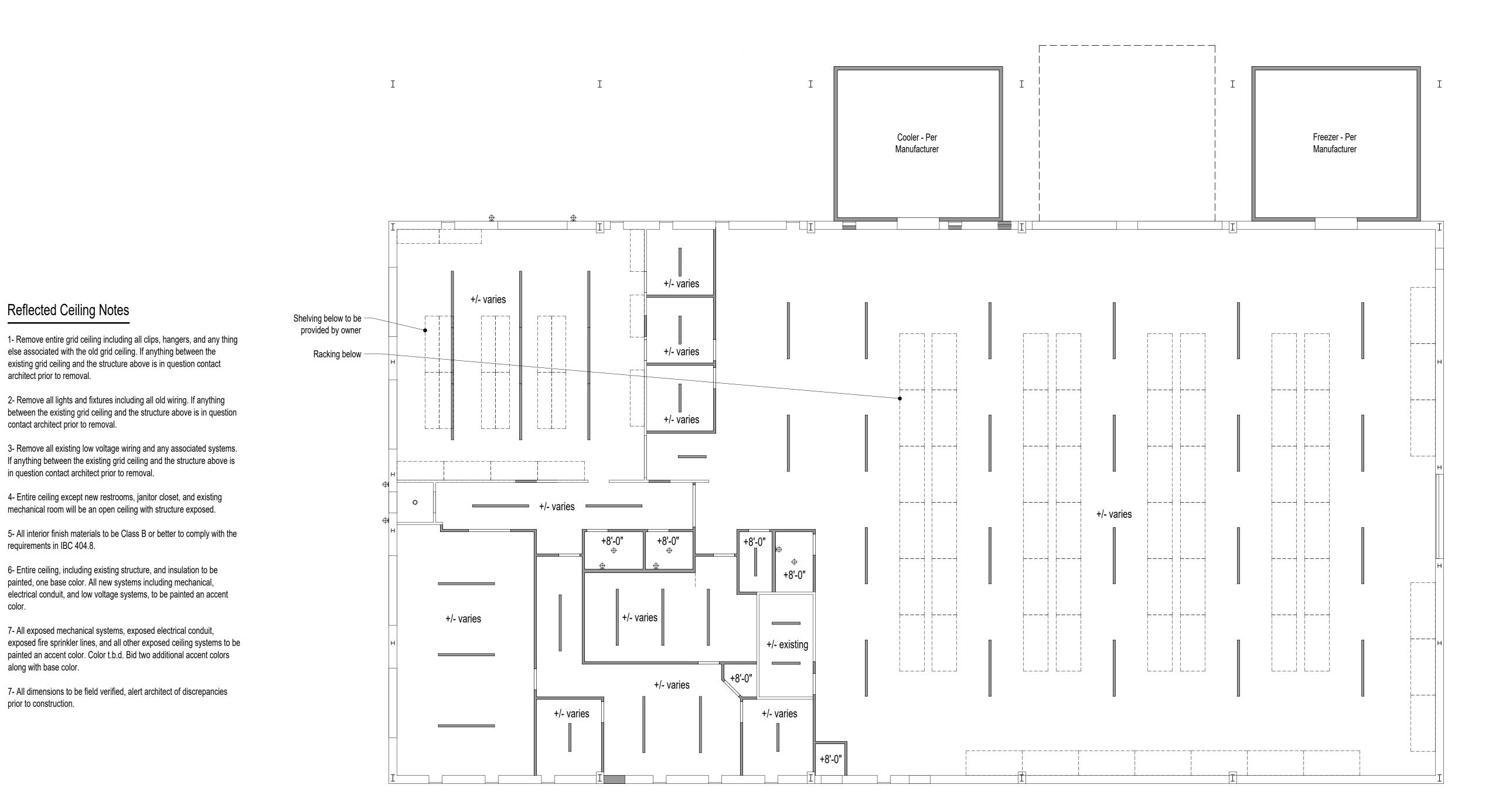
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DATE

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SHEET NUMBER





Reflected Ceiling Notes

contact architect prior to removal.

requirements in IBC 404.8.

along with base color.

prior to construction.

color.

in question contact architect prior to removal.

else associated with the old grid ceiling. If anything between the

existing grid ceiling and the structure above is in question contact

4- Entire ceiling except new restrooms, janitor closet, and existing

6- Entire ceiling, including existing structure, and insulation to be

painted, one base color. All new systems including mechanical,

7- All exposed mechanical systems, exposed electrical conduit,

mechanical room will be an open ceiling with structure exposed.

Building Reflected Ceiling Plan

Scale: 1/8" = 1'-0" - Do Not Scale Drawings



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Reflected Ceiling Plan

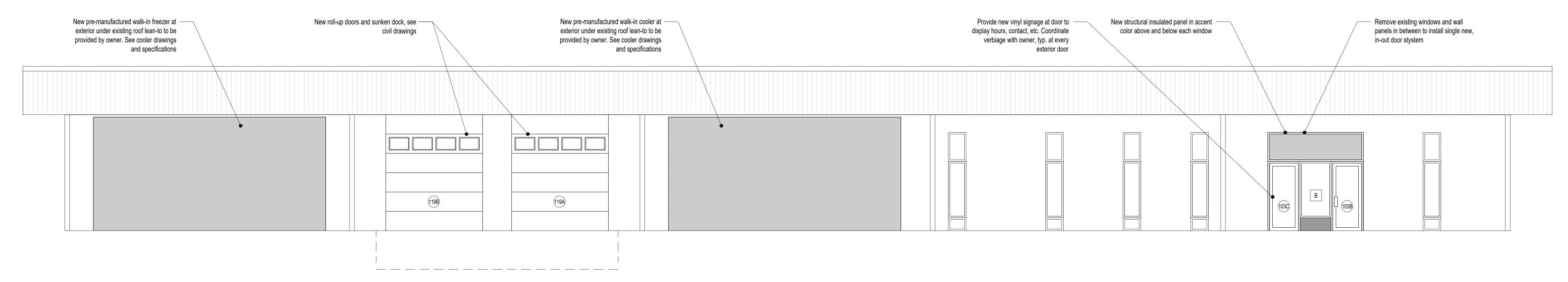
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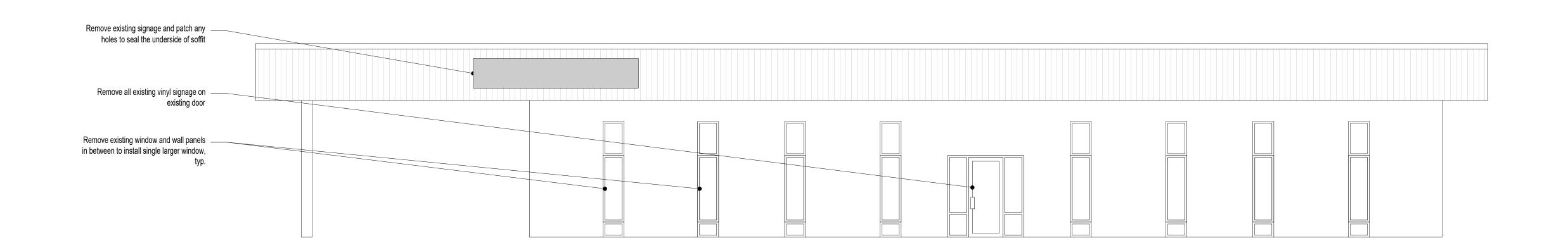
New Exterior East Elevation

Scale: 3/16" = 1'-0" - Do Not Scale Drawings

Note: Bid new lighted sign and painted soffit as a separate line item bid. Prime and paint entire corrugated metal on all sides of the builling FOOD BANK SEE New custom, approximately 30'x3' custom shape, lighted sign New custom cut metal address number and street name New structural insulated panel in accent 111 W Front Street color above and below each window New window, with new insulated wall panel above ane below typ. Α Α Provide new vinyl signage at door to display hours, contact, etc. Coordinate verbiage with owner, typ. at every exterior door 10' field ver.

New Exterior North Elevation

Scale: 3/16" = 1'-0" - Do Not Scale Drawings

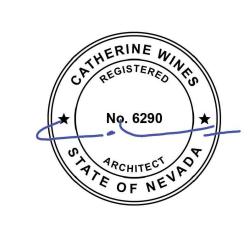


Existing Exterior North Elevation

Scale: 3/16" = 1'-0" - Do Not Scale Drawings



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SHEET NAME

Building Exterior Elevations

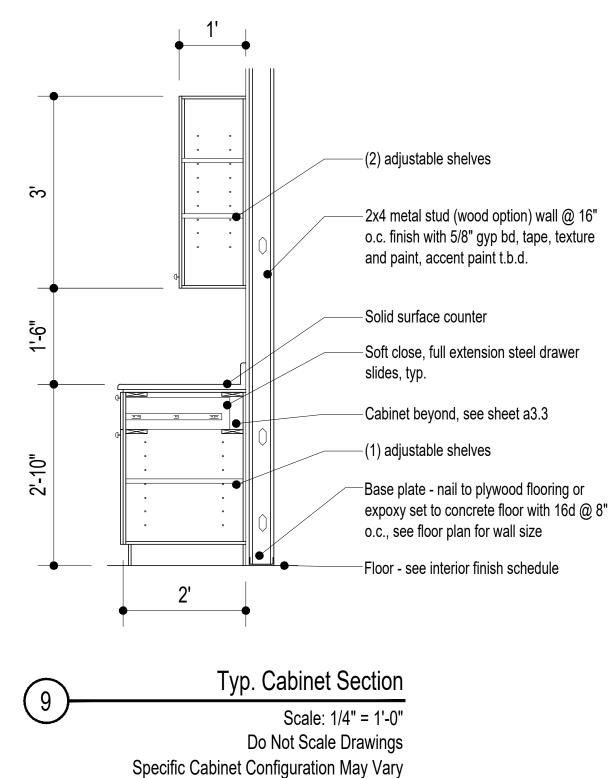
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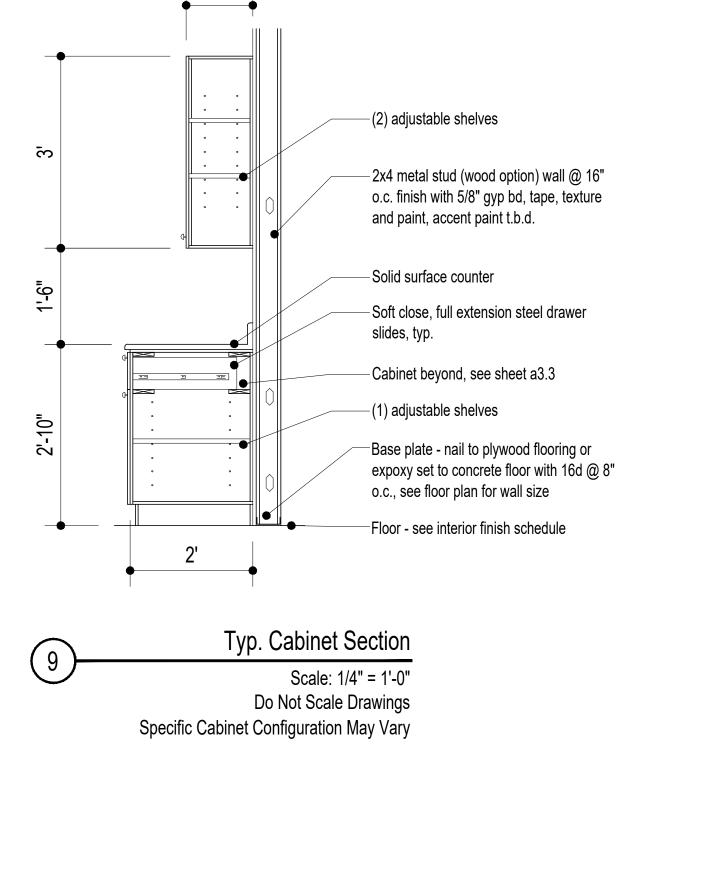
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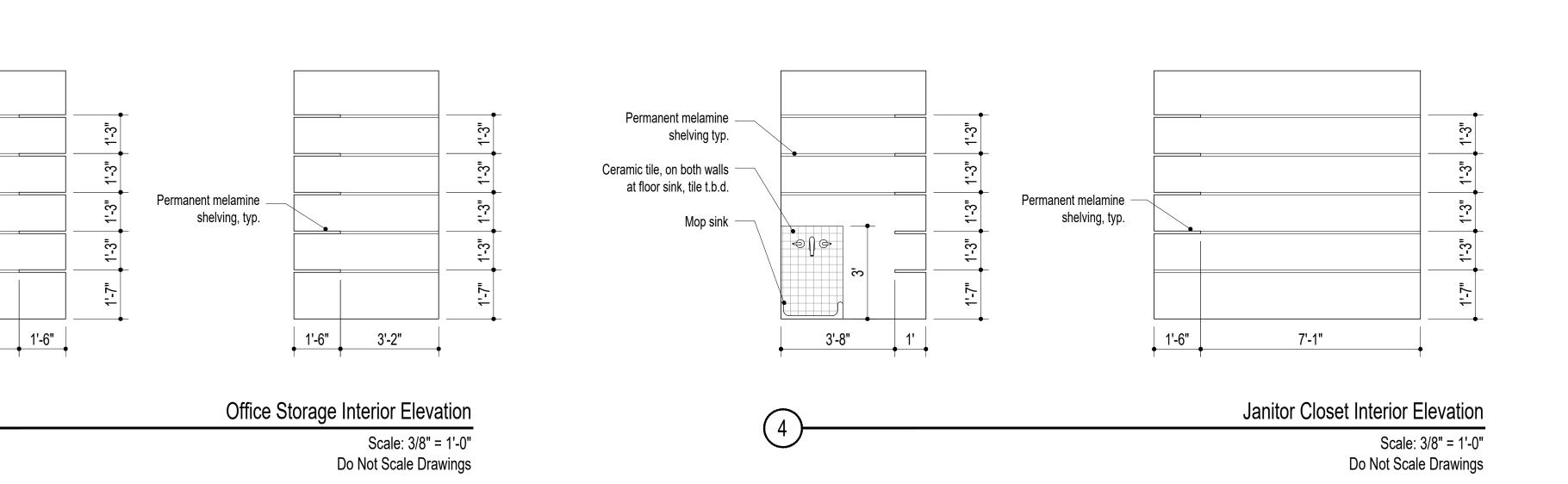
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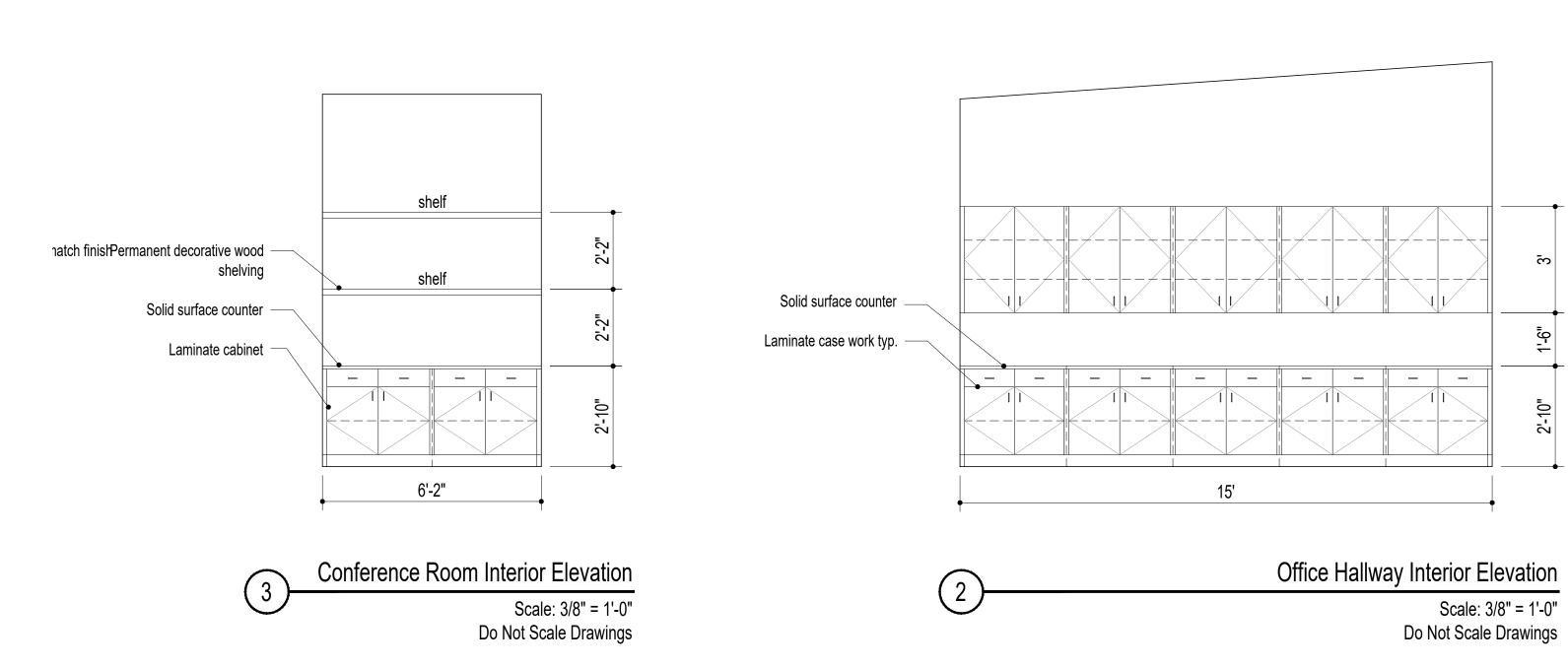
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a3 ′





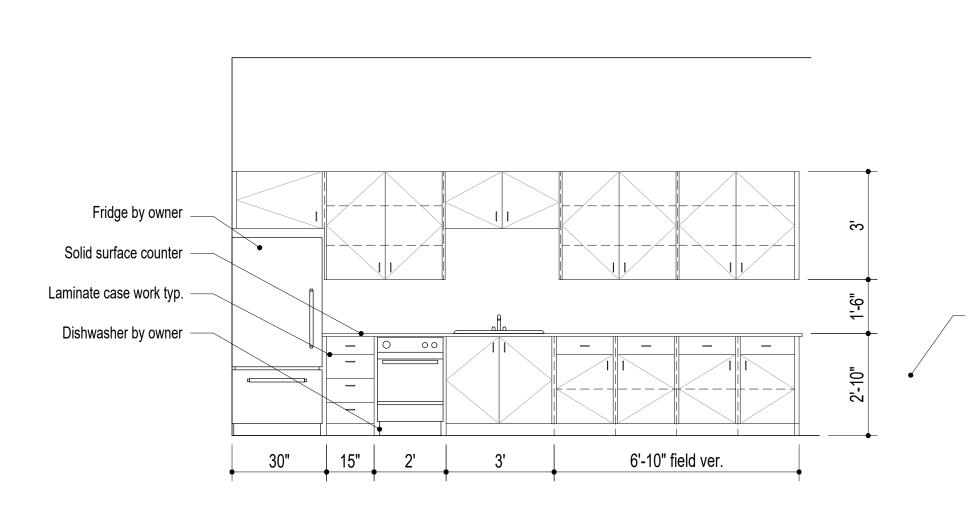




3'-2"

Permanent melamine _

shelving, typ.



Cabinet Notes

shall be manufacturer's standard.

be 4" high unless otherwise noted.

by metal shelf standards and clips.

Color to match adjacent finish.

otherwise.

fabrication.

1- All cabinets to be constructed in accordance with AWI Premium Grade

2- All exposed surfaces shall be plastic laminate. Semi exposed surfaces shall be matching cabinet liner or white melamine. Concealed surfaces

3- All countertops shown are separate solid surface, min 3 /4" thick with rolled corners and 4" integral back splash. All countertop splashes shall

4- All cabinet dimensions are nominal and to face of finished material

cabinets. Shelves over 36" wide shall have front nosing and be supported

unless otherwise noted. Verify all field conditions prior to fabrication.

5- Provide 3/4" thick adjustable shelves in all base, tall, and upper

6- All drawer boxes shall be 5/8" thick dovetailed hardwood or 3/4" pre-finished plywood with under-mount, full extension, soft-close slides

rated for 100lb minimum. Cabinet backs shall have 1/4" min.

7- All doors and drawer fronts shall be full overlay unless noted

8- Hinges shall be concealed, 110°–165° self-closing, 6-way adjustable.

9- Provide grommets at all locations indicated for wire pass-through.

10- All finish hardware to be heavy-duty, steel, pulls and knobs to be selected from cabinet makers standard line or approved equal.

requirements with mechanical, electrical, and plumbing trades prior to

12- Provide blocking in walls for all wall-hung cabinets, open shelving,

13- All cabinetry shall be level, plumb, and scribed tight to walls and soffits. Scribe fillers to be maximum 1½" wide unless approved by

and heavy accessories (contractor responsibility unless noted otherwise).

11- Coordinate exact appliance sizes, utility locations, and vent

Breakroom Interior Elevation

Scale: 3/8" = 1'-0" Do Not Scale Drawings

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Interior Elevations

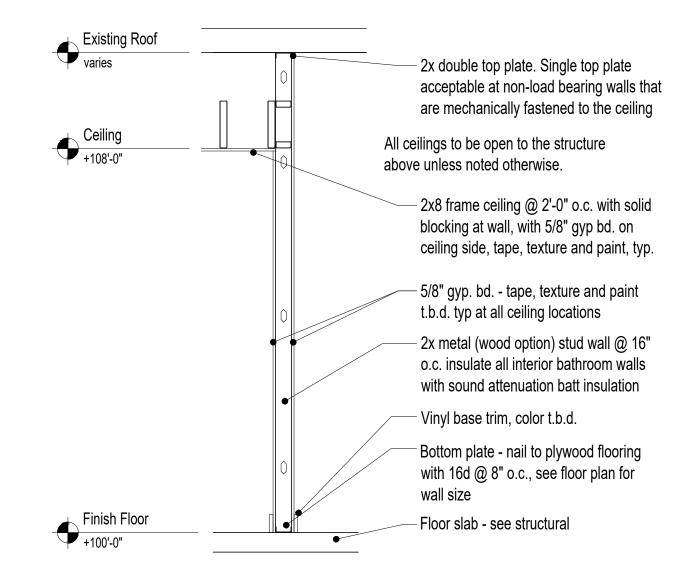
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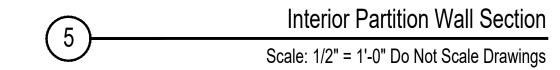
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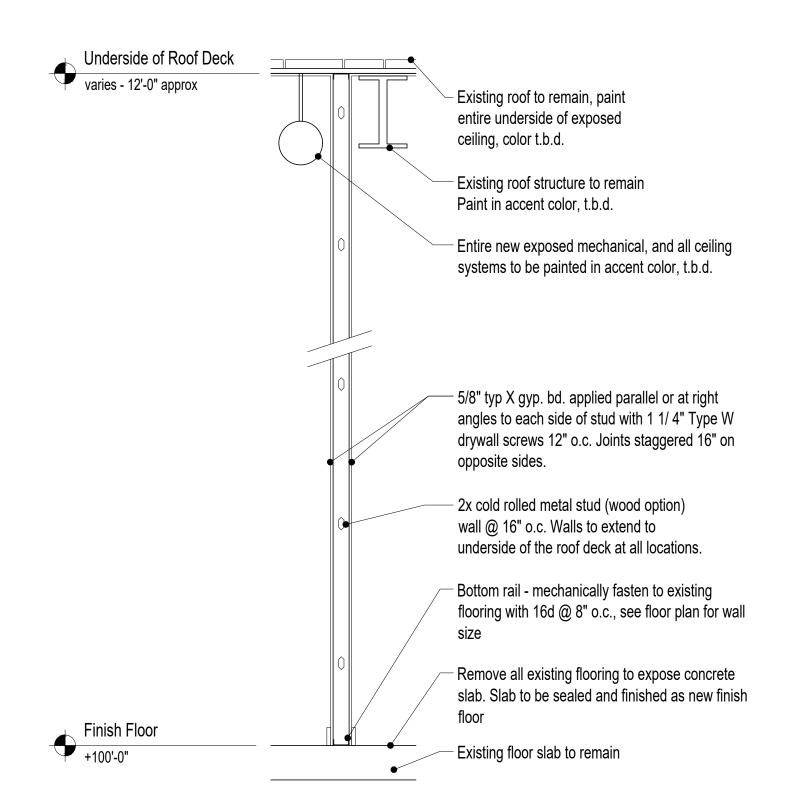
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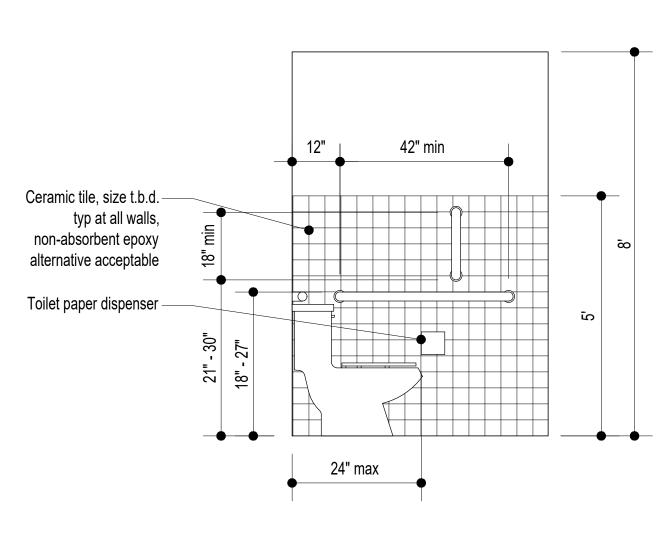


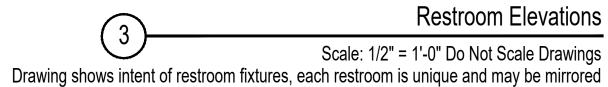


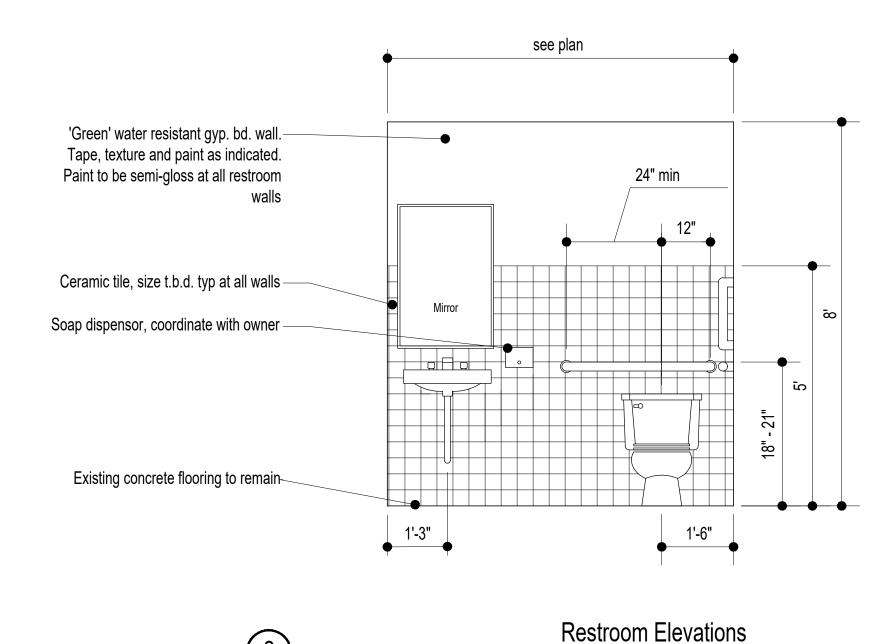


Interior Dividing Wall Section

Scale: 1/2" = 1'-0" Do Not Scale Drawings

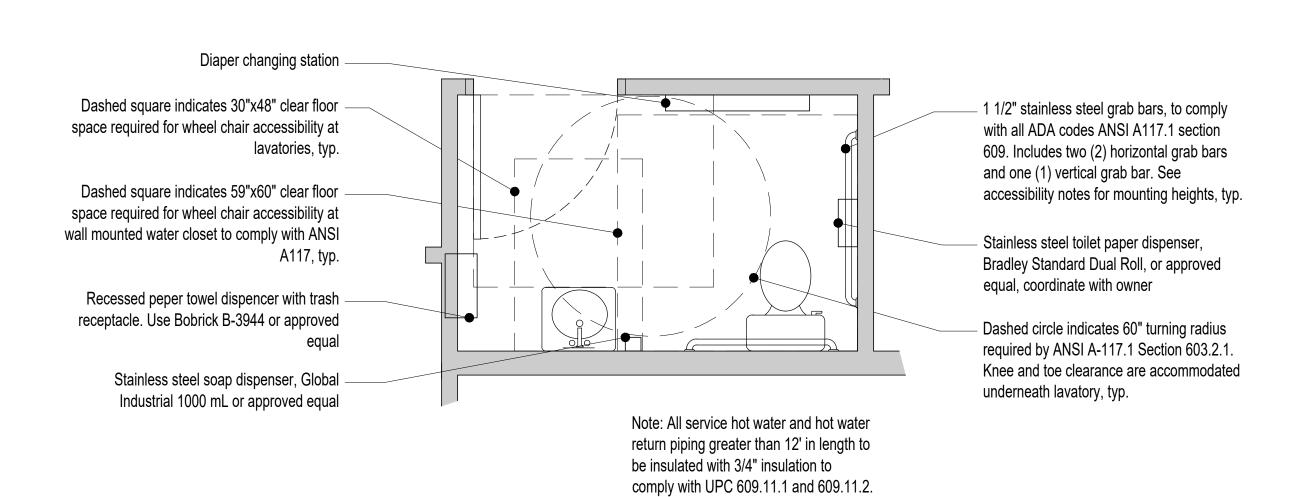






Scale: 1/2" = 1'-0" Do Not Scale Drawings

Drawing shows intent of restroom fixtures, each restroom is unique and may be different in layout



Enlarged Restroom Plan

Scale: 3/8" = 1'-0" Do Not Scale Drawings

RESTUDIO CATHERINE WINES, ARCHITECT

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SHEET NAME

Details Wall Sections

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SHEET NUMBER

a4 1

	Window Schedule									
Symbol	Rooms	Size	Operation	Total # of Windows	Material	Glazing	Mnftr.	Comments		
Fir	First Floor									
Α	A Pantry, Conference Room 10'-0" x 5'-0" fixed 4 aluminum Low E T. B. D. Field Verify									
В	Pantry	3'-3" x 5'-0"	fixed	1	aluminum	Low E	T. B. D.	Field Verify		
С	Existing Office	2'-0" x 5'-0"	fixed	12	aluminum	Low E	T. B. D.	Field Verify		

Window Types 2'-0" Finish Floor

102 Hall 103 Pan 104 Offii 105 Offii 106 Offii 107 Con 108 Brea		F-2 F-2	Base	North Wall	East Wall	South Wall	West Wall	Ceiling	Specialty	Comments	Ceiling Height
102 Hall 103 Pan 104 Offii 105 Offii 106 Offii 107 Con 108 Brea	ntrance all		ם ח					S	Sp	Commonto	Ceili
102 Hall 103 Pan 104 Offii 105 Offii 106 Offii 107 Con 108 Brea	all		ВЭ								
103 Pan 104 Office 105 Office 106 Office 107 Con 108 Brea		F-2	D-Z	W-1/W-4	W-1/W-4	W-1/W-4	W-1/W-4	C-1			open
104 Offici 105 Offici 106 Offici 107 Con 108 Brea	antry		B-2	W-1	W-1	W-1	W-1	C-1			open
105 Office 106 Office 107 Con 108 Brea	······································	F-2	B-2	W-1	W-1	W-1	W-1	C-1			open
106 Office 107 Con 108 Brea	fice	F-2	B-2	W-1	W-1	W-1	W-1	C-2			open
107 Con 108 Brea	ffice	F-2	B-2	W-1	W-1	W-1	W-1	C-2			open
108 Brea	ffice	F-2	B-2	W-1	W-1	W-1	W-1	C-2			open
	onference Room	F-3	B-2	W-1	W-1	W-1	W-1	C-1			open
109 Unis	eak Room	F-3	B-2	W-1	W-1	W-1	W-1	C-1			open
	nisex Restroom	F-2	B-1	W-3	W-3	W-3	W-3	C-2			8'-0"
110 Unis	nisex Restroom	F-2	B-1	W-3	W-3	W-3	W-3	C-2			8'-0"
111 Jan	nitor	F-3	B-1	W-1	W-1	W-1	W-3	C-2		Partial ceramic tile at mop sink	8'-0"
112 Unis	nisex Restroom	F-2	B-1	W-3	W-3	W-3	W-3	C-2			8'-0"
113 Offic	fice	F-2	B-2	W-1	W-1	W-1	W-1	C-2			open
114 Ope	pen Office	F-2	B-2	W-1	W-1	W-1	W-1	C-1			open
115 Offic	fice	F-2	B-2	W-1	W-1	W-1	W-1	C-1			open
116 Med	echanical	F-2	B-1	W-4	W-4	W-1	W-4	C-2			open
117 Wal	alk-in Cooler	F-3								Pre-manufactured unit	open
118 Wal	alk-in Freezer	F-3								Pre-manufactured unit	open
119 War	arehouse	F-1	B-1	W-1	W-4	W-4	W-4	C-3	S-1	Warehouse racking	open
120 Wat		F-1	B-1	W-1	W-1	W-1	W-4	C-3			open

Window Notes

- 1- Verify all window dimensions in the field.
- 2- All glass within 18" of finish floor or an operable door must be tempered glass. 'T' indicates tempered glass.
- 3- All operable windows to have locking hardware device.
- 4- All windows and doors with glass to have low "E" double pain, clear glass.
- 5- All doors and windows to be installed to meet manufacturers specifications and recommendations and to meet current codes for energy efficiency and security.
- 6- The maximum U-factor for all windows including glazing and frames to be max NFRC 100 or better.
- 7- Window A & C are BID ALTERNATES

F-1 Remove all existing flooring, expose and clean existing concrete

F-2 Remove all existing flooring, polish and

seal existing concrete

B-1 4" Vinyl cove base - color t.b.d.

and two accent colors

B-2 6" Vinyl cove base

C-3 Existing to remain

Floor

Ceiling

Symbol	Room Name	Size	Existing to Rem	Double Door	Туре	Glazing	Material	Head	Jamb	Fire Rating	Hardware Grou	Automatic Clos	Comments
101A	Entrance	3'-0" x 7'-0"	yes		С	yes	Α	c / a5.1	c / a5.1	no	Α	yes	Replace existing hardware to be compliant
101B	Entrance	3'-0" x 7'-0"	yes		С	yes	A	c / a5.1	c / a5.1	no	A	yes	Replace existing hardware to be compliant
102	Hall	3'-0" x 7'-0"	,,,,	yes	В	yes	W	a / a5.1	b / a5.1	no	D	yes	Tropiace exicting naraware to be compliant
103A	Pantry	3'-0" x 7'-0"		,,,,	В	yes	W	a / a5.1	b / a5.1	no	D	, , ,	
103B	Pantry	3'-0" x 7'-0"			С	yes	A	c / a5.1	d / a5.1	no	A		Entrance only door, no interior lever
103C	Pantry	3'-0" x 7'-0"		yes	С	yes	Α	c / a5.1	d / a5.1	no	Α		Exit only door, no exterior lever
103D	Pantry	3'-0" x 7'-0"		yes	В	yes	W	a / a5.1	b / a5.1	no	D		,, ··
104	Office	3'-0" x 7'-0"		,	В	yes	W	a / a5.1	b / a5.1	no	В		
105A	Office	3'-0" x 7'-0"			В	yes	W	a / a5.1	b / a5.1	no	В		
105B	Office	3'-0" x 7'-0"			В	yes	W	a / a5.1	b / a5.1	no	В		
106	Office	3'-0" x 7'-0"			В	yes	W	a / a5.1	b / a5.1	no	В		
107A	Conference Room	3'-0" x 7'-0"		yes	В	yes	W	a / a5.1	b / a5.1	no	В		
107B	Conference Room	3'-0" x 7'-0"			В	yes	W	a / a5.1	b / a5.1	no	В		
108A	Break Room	3'-0" x 7'-0"			В	yes	W	a / a5.1	b / a5.1	no	В		
108B	Break Room	3'-0" x 7'-0"			В	yes	W	a / a5.1	b / a5.1	no	В		
109	Unisex Rest Room	3'-0" x 7'-0"			Α		W	a / a5.1	b / a5.1	no	С	yes	
110	Unisex Restroom	3'-0" x 7'-0"			Α		W	a / a5.1	b / a5.1	no	С	yes	
111	Janitor Closet	3'-0" x 7'-0"			Α		W	a / a5.1	b / a5.1	no	В	yes	
112	Unisex Restroom	3'-0" x 7'-0"			Α		W	a / a5.1	b / a5.1	no	С	yes	
113	Office	3'-0" x 7'-0"			В	yes	W	a / a5.1	b / a5.1	no	В		
114A	Open Office	3'-0" x 7'-0"			В	yes	W	a / a5.1	b / a5.1	no	В		
114B	Storage	3'-0" x 7'-0"			Α		W	a / a5.1	b / a5.1	no	В		
115	Office	3'-0" x 7'-0"			В	yes	W	a / a5.1	b / a5.1	no	В		
116	Mechanical	3'-0" x 7'-0"			Α		W	a / a5.1	b / a5.1	no	В		
117	Walk-in Cooler	5'-0" x 7'-0"					М			no			Walk-in door part of pre-manufactured system
118	Walk-in Freezer	5'-0" x 7'-0"					М			no			Walk-in door part of pre-manufactured system
119A	Warehouse	12'-0" x 10'-0"			Е	yes	М	see civil	see civil	no			Powered lift control
119B	Warehouse	12'-0" x 10'-0"			Е	yes	М	see civil	see civil	no			Powered lift control
119C	Warehouse	3'-0" x 7'-0"	yes		D	yes	М	c / a5.1	c / a5.1	no	Α		
119D	Warehouse	10'-0" x 12'-0"	yes		Е		М	c / a5.1	c / a5.1	no			Powered lift control
119E	Warehouse	3'-0" x 7'-0"	yes		D	yes	М			no	Α		
120	Fire Riser	3'-0" x 7'-0"			F		М	a / a5.1	b / a5.1				

Door Schedule

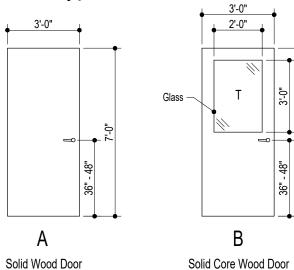
Frame

Details

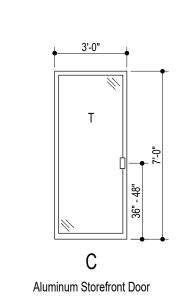
Door

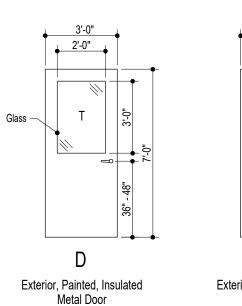
Door Types

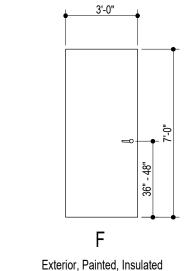
With Timely Frame



With Timely Frame







Metal Door



- -1 Interior push bar -1 Exterior pull handle ADA compliant -1 Deadbolt locking device with keyed pull
- side and thumb lock on push side -1 Threshold -1 Set weather stripping
- -3 Hinges -1 Pedestal stop (wall substitute as needed)

Door Notes

material by $\frac{1}{2}$ "

dust control.

metal frame.

7- not used

u.n.o.

Disabilities Act.

UL 10C and UL 305.

of any fire rated door.

designated exit.

frames, color t.b.d.

1- Due to multiple use some door details are

2- Interior doors to be installed to clear finish floor

3- All locksets on doors shall be ADA lever type.

4- All openings larger than 1/4" in exterior wall to

use backer rod and commercial grade caulk for

5- Interior doors to have knock down Timely metal

6- Exterior metal doors to have welded paint grade

8- All stops to be industrial grade stainless steel,

9- All door hardware to be mounted at 36" a.f.f.

10- All doors and entrances are to be accessible based on requirements of the Americans with

11- All panic hardware shall be listed in accordance with UL 305, fire exit hardware shall be listed with

12- The actuating portion of the releasing device shall extend at least one-half of the door leaf width

13- The maximum unlatching force shall not exceed

15 lbs on any door with-in the path of travel of a

14- Door 101 must have a visible sign on the

interior, that reads "THIS DOOR TO REMAIN

UNLOCKED WHEN THIS SPACE IS OCCUPIED"

15- Door 101 to have access control and unlocking

either pedestal or wall stops.

reversed from direction shown.

- B Interior Door (single) Finish t.b.d. Schlage or equal -1 Lever style knob to be ADA compliant
- keyed on push side free egress from egress side -3 Hinges
- -1 Wall stop
- C Interior Door (single) Finish t.b.d. Schlage or equal -1 Lever style knob to be ADA compliant
- Privacy lock on pull side -3 Hinges
- -1 Wall Stop (pedestal substitute as needed)
- D Interior Door (double) Finish t.b.d.
- Schlage or equal -1 Locking leaf with floor lever
- Keyed lock side t.b.d. -1 Lever style knob to be ADA compliant
- -6 Hinges -2 Wall Stop (pedestal substitute as needed)

11.6.2025

421 RAILROAD STREET STE 208 ELKO, NEVADA 89801

p775.738.7829 f775.738.7817

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PROJECT NAME

SHEET NAME

Schedules

REVISIONS

for this project. Copyright (c) 2008 by Catherine Wines,

SHEET NUMBER

DATE

a5.

File number 25-006 - FBNN, Elko City



Exterior wall detail similar, includes insulation

see metal building manufacturers recommendations

Walls W-1 5/8" Gyp bd. attached to framing, screw drywall as required by code, tape, texture and paint with base color, t.b.d. W-2 not used

C-1 Remove 2x4 acoustic grid ceiling to expose ceiling

C-2 5 /8" Gyp bd. attached to ceiling framing, screw

drywall as required by code, tape, texture and paint t.b.d.

structure. Existing ceiling and all systems hanging

from the ceiling to be painted with one base color

- W-3 4x4 ceramic tile up to 5'-0" a.f.f. with finish gyp bd above to ceilng. All wet walls to be 5/8" green board gyp. bd. for water resistance. Tape texture and paint as required. Sound attenuation insulation.
- W-4 Existing to remain, patch and paint as required for new finish look

Specialty

- 5/8" Gypsum Wall Board

- 2x8 Header (wood or metal)

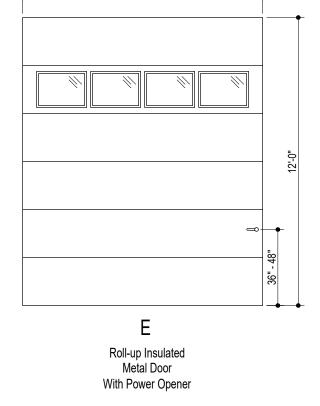
Timely or approved equal

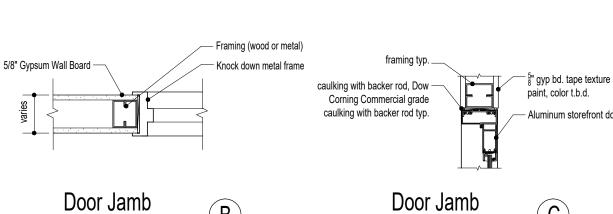
Door Head

Exterior wall detail similar, includes insulation

- Knock down metal door frame

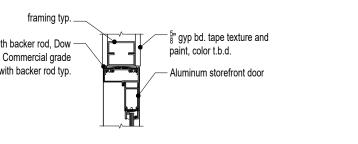
S-1 Seismic braced warehouse racking





Scale: 1 1/2" = 1'-0"

Door Head detail similar

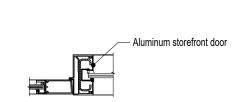


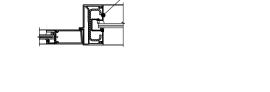


Door Head detail similar









Scale: 1 1/2" = 1'-0"

Door Head detail similar

Notes

1 - Materials not specifically described or shown will not be part of this contract unless required for minimum construction standards or code compliance. If more information is necessary to complete work contact the Architect / Owner.

2 - Where manufacturers have been specifically named, any alternate shall be approved in writing by the architect / owner prior to the comensment of work.

1	l_	E۷	ca	1/2	tic	'n
	-	ΓX	(;a)	VН	HC.	ו ונ

Bearing soil, type __assume 1,500 lbs soil bearing preassure

2- Foundation

Footings - concrete mix NA	Strength psi	Reinforcing	
Foundation wall material NA	Strength psi	Reinforcing	
Interior foundation wall material NA	Party foundation	wall NA	
Columns NA	Piers NA		
Girders NA	Sills NA		
Basement enterance NA	Basement window	/s NA	
Waterproofing NA			
Termite protection NA			
Additional foundation notes See civ	il for dock and cooler foundation	·	· · · · · · · · · · · · · · · · · · ·

3- Exterior Walls

Framing material <u>NA</u> Paper or felt	Corner bracing	
Sheathing	/ thickness	spacing
Exterior finish NA		
Exterior veneer NA		
Door sills NA	Window sills NA	Lintels
Flashing NA		Exterior Finish NA
Gable walls same as walls	other	
Additional exterior wall notes Infill framin	g at existing door and window locations to m	natch existing walls to remain. New window panels to be accent color

4- Floor Framing

First floor NA	thicknessre	einforcing
Inside foundation insulation NA	membrane _yes	
Fill under slab NA	thickness	
Mezzanine floor framing NA	spacing NA	anchors NA
Additional floors framing NA	spacing	anchors NA
Additional floor notes NA	- · · · · · · · · · · · · · · · · · · ·	

5- Sub Flooring @ Main Level

Material	Remove all existing flooring, finish and seal concrete	size	NA ty	уре _	NA
Material	NA	size	NA t	ype	NA

6- Partition Framing

Studs 2x4 metal studs	size & spacing 16" o.c.	other	
Plumbing studs 2x6 metal studs	size & spacing 16" o.c.	other_typc	it all wet walls
Additional partition notes interior walls t	o go to underside of the roof deck		

7- Ceiling Framing

Material NA	size & spacing NA	other NA	
Additional ceiling framing notes			
_			

8- Roof Framing

Rafters NA	Trusses _	NA
Spacing	anchors	see structural
Additional roof framing notes NA		

9- Roofing

Sheathing NA		Spacing			
Roofing NA			Style	Size	
Fastening NA					
Underlay NA		Thickness		Nailing	
Flashing NA			Gage or weight	•	
Gravel stops	Snow gaurds no	lce shield yes			
Roof Gutters NA			Down spouts N	A	
Additional roofing notes _					

10- Interior Partition Walls

Wall finish material 5/8" gyp. bd.	weight or thickness	5/8"
Ceiling finish material gyp. bd	weight or thickness	5/8"
Joint treatment 2 layers drywall tape	Finish Flat finish	
Wet wall locations Green gyp. bd.	weight or thickness	5/8"
Fire wall locations NA	weight or thickness	NA
Additional wall finish notes stain grade wainscot t	o 4' a.f.f. in stairwell and guest lobb	by, see interior elevations

11- Stairs

	Tread / Size	Riser / Size	Strings / Size	Handrail / Size	Balasters
Location NA			<u>-</u>		
Location					
Location					
Disappearing Garage Stair _	NA				
Additional ataix pates					

12- Insulation

20- Walks & Driveways

See cvil plans

22- Landscaping

High shrubs ____

Medium shrubs ____ Low shrubs ____ Ground cover ___

Existing to remain — rehabilitate existing, see civil

Area to be landscaped indicted on site plan by owner - see civil

21- Other On-site Improvements

Topsoil _____ thickness _____ Shade trees, deciduous _____

Evergreen trees _____

Automatic sprinkler system ____ Additional landscaping notes __

Restroom walls	Thickness	Туре	R-value	Vapor Barrie
Trestroom wans	6"	Sound Attenuation Batt		
Additional insulation notes				
 3- Plumbing				
· ·			0:	0.1
Fixture see plumbing plans for fixtu	Number Locations	Make	Size	Color
bid allowance for all plumbin				
W. t t t 0		First	11-25	
Water heater type & size <u>See</u> Bathroom accessories <u>coordi</u>		Fuel gas	Heating capacity	
	indite with owner			
Kitchen Accessories by o	wner			
Additional plumbing fixture note	20			
Additional plantoling lixture flots				
4- Cabinets				
	rial AWI premium grade, laminate	lineal feet 13'-6"	exposed shelving lineal	"
Office cabinet material AWI pr	erial AWI premium grade, laminate	lineal feet _15'-6" lineal feet _15'-0"	exposed shelving linea exposed shelving lineal	
		lineal feet 6'-0"	exposed shelving lineal	
	aleriai Awi premium grade, idminate			
Conference Station cabinet ma Kitchen counter top material	Solid Surface	Bathroom counter top m	iateriai <u>NA</u>	
Conference Station cabinet ma Kitchen counter top material _S Backsplash _Solid Surface	Solid Surface	Cabinet Finish		
Conference Station cabinet ma Kitchen counter top material Storage Rooms Melamine fixe	Solid Surface ed shelving	Cabinet Finishopen shelving lineal fee		
Conference Station cabinet ma Kitchen counter top material _S Backsplash _Solid Surface Storage Rooms _Melamine_fixe	Solid Surface	Cabinet Finishopen shelving lineal fee		
Conference Station cabinet ma Kitchen counter top material _S Backsplash _Solid Surface Storage Rooms _Melamine_fixe	Solid Surface ed shelving	Cabinet Finishopen shelving lineal fee		
Conference Station cabinet ma Kitchen counter top material Stacksplash Solid Surface Storage Rooms Melamine fixe	Solid Surface ed shelving	Cabinet Finishopen shelving lineal fee		
Conference Station cabinet ma Kitchen counter top material Stacksplash Solid Surface Storage Rooms Melamine fixe Additional cabinet notes Office	Solid Surface ed shelving e cainet has upper and lower — see interi	Cabinet Finishopen shelving lineal fee		
Conference Station cabinet ma Kitchen counter top material S Backsplash Solid Surface Storage Rooms Melamine fixe Additional cabinet notes Office	Solid Surface ed shelving	Cabinet Finishopen shelving lineal fee		
Conference Station cabinet ma Kitchen counter top material _S Backsplash _Solid Surface Storage Rooms _Melamine fixe Additional cabinet notes Office	Solid Surface ed shelving e cainet has upper and lower — see interi and Weatherproofing	Cabinet Finishopen shelving lineal fee or elevations	See plan	
Conference Station cabinet ma Kitchen counter top material S Backsplash Solid Surface Storage Rooms Melamine fixe Additional cabinet notes Office 5- Sealers, Caulking, All joints and openings large	Solid Surface ed shelving e cainet has upper and lower — see interi	Cabinet Finishopen shelving lineal feetor elevations orning commercial grade caulk or	et See plan approved equal.	
Conference Station cabinet ma Kitchen counter top material S Backsplash Solid Surface Storage Rooms Melamine fixe Additional cabinet notes Office 5- Sealers, Caulking, All joints and openings large	Solid Surface ed shelving e cainet has upper and lower — see interi and Weatherproofing er than 1/4" to be caulked with Owens Co	Cabinet Finishopen shelving lineal feetor elevations orning commercial grade caulk or	et See plan approved equal.	
Conference Station cabinet ma Kitchen counter top material S Backsplash Solid Surface Storage Rooms Melamine fixe Additional cabinet notes Office 5- Sealers, Caulking, All joints and openings large Weatherproofing requirements standards	Solid Surface ed shelving e cainet has upper and lower — see interi and Weatherproofing er than 1/4" to be caulked with Owens Co s called out throughtout plans, all expose	Cabinet Finishopen shelving lineal feetor elevations orning commercial grade caulk or	et See plan approved equal.	
Conference Station cabinet ma Kitchen counter top material S Backsplash Solid Surface Storage Rooms Melamine fixe Additional cabinet notes Office 5- Sealers, Caulking, All joints and openings large Weatherproofing requirements standards 6- Fire Protection Equal	and Weatherproofing er than 1/4" to be caulked with Owens Cost called out throughtout plans, all exposed	Cabinet Finishopen shelving lineal feetor elevations orning commercial grade caulk or	et See plan approved equal.	
Conference Station cabinet ma Kitchen counter top material S Backsplash Solid Surface Storage Rooms Melamine fixe Additional cabinet notes Office 5- Sealers, Caulking, All joints and openings large Weatherproofing requirements standards 6- Fire Protection Equation Services of the sprinkler system is BID	Solid Surface ed shelving e cainet has upper and lower — see interi and Weatherproofing er than 1/4" to be caulked with Owens Co s called out throughtout plans, all expose uipment ALTERNATE — see plan	Cabinet Finishopen shelving lineal feed or elevations prining commercial grade caulk or dexterior surfaces need to be prining commercial grade.	et See plan approved equal.	
Conference Station cabinet ma Kitchen counter top material S Backsplash Solid Surface Storage Rooms Melamine fixe Additional cabinet notes Office 5- Sealers, Caulking, All joints and openings large Weatherproofing requirements standards 6- Fire Protection Equation Services of the sprinkler system is BID	and Weatherproofing er than 1/4" to be caulked with Owens Cost called out throughtout plans, all exposed	Cabinet Finishopen shelving lineal feed or elevations prining commercial grade caulk or dexterior surfaces need to be prining commercial grade.	et See plan approved equal.	
Conference Station cabinet ma Kitchen counter top material S Backsplash Solid Surface Storage Rooms Melamine fixe Additional cabinet notes Office 5- Sealers, Caulking, All joints and openings large Weatherproofing requirements standards 6- Fire Protection Equation Fire sprinkler system is BID Fire extinguisher in stainless	and Weatherproofing er than 1/4" to be caulked with Owens Cost called out throughtout plans, all exposes uipment ALTERNATE — see plan es steel recessed, lockable cabinet — see p	Cabinet Finishopen shelving lineal feed or elevations prining commercial grade caulk or dexterior surfaces need to be prining commercial grade.	et See plan approved equal.	
Conference Station cabinet ma Kitchen counter top material S Backsplash Solid Surface Storage Rooms Melamine fixe Additional cabinet notes Office 5- Sealers, Caulking, All joints and openings large Weatherproofing requirements standards 6- Fire Protection Equation Fire sprinkler system is BID Fire extinguisher in stainless 7- Garage Special Insertices	and Weatherproofing er than 1/4" to be caulked with Owens Cost called out throughtout plans, all exposes uipment ALTERNATE — see plan steel recessed, lockable cabinet — see p	Cabinet Finishopen shelving lineal feed or elevations prining commercial grade caulk or dexterior surfaces need to be prining commercial grade.	et See plan approved equal.	
Conference Station cabinet ma Kitchen counter top material S Backsplash Solid Surface Storage Rooms Melamine fixe Additional cabinet notes Office 5- Sealers, Caulking, All joints and openings large Weatherproofing requirements standards 6- Fire Protection Equation Fire sprinkler system is BID Fire extinguisher in stainless	and Weatherproofing er than 1/4" to be caulked with Owens Cost called out throughtout plans, all exposes uipment ALTERNATE — see plan steel recessed, lockable cabinet — see p	Cabinet Finishopen shelving lineal feed or elevations prining commercial grade caulk or dexterior surfaces need to be prining commercial grade.	et See plan approved equal.	
Conference Station cabinet ma Kitchen counter top material S Backsplash Solid Surface Storage Rooms Melamine fixe Additional cabinet notes Office 5- Sealers, Caulking, All joints and openings large Weatherproofing requirements standards 6- Fire Protection Equation Fire sprinkler system is BID Fire extinguisher in stainless 7- Garage Special Insertices	and Weatherproofing er than 1/4" to be caulked with Owens Cost called out throughtout plans, all exposes uipment ALTERNATE — see plan steel recessed, lockable cabinet — see p	Cabinet Finishopen shelving lineal feed or elevations prining commercial grade caulk or dexterior surfaces need to be prining commercial grade.	et See plan approved equal.	
Conference Station cabinet ma Kitchen counter top material S Backsplash Solid Surface Storage Rooms Melamine fixe Additional cabinet notes Office 5- Sealers, Caulking, All joints and openings large Weatherproofing requirements standards 6- Fire Protection Equation Fire sprinkler system is BID Fire extinguisher in stainless 7- Garage Special Ins See schedules for roll-up descriptions.	and Weatherproofing and I/4" to be caulked with Owens Cost called out throughtout plans, all exposed Lipment ALTERNATE — see plan steel recessed, lockable cabinet — see p	Cabinet Finishopen shelving lineal feed or elevations prining commercial grade caulk or dexterior surfaces need to be prining commercial grade.	et See plan approved equal.	
Conference Station cabinet ma Kitchen counter top material S Backsplash Solid Surface Storage Rooms Melamine fixe Additional cabinet notes Office 5- Sealers, Caulking, All joints and openings large Weatherproofing requirements standards 6- Fire Protection Equation in stainless 7- Garage Special Ins See schedules for roll-up designed.	and Weatherproofing er than 1/4" to be caulked with Owens Cost called out throughtout plans, all exposes uipment ALTERNATE — see plan steel recessed, lockable cabinet — see p structions door specs	cabinet Finishopen shelving lineal feed or elevations prining commercial grade caulk or dexterior surfaces need to be printed by the prince of the printed by the p	approved equal. operly weatherproofed accordin	
Conference Station cabinet ma Kitchen counter top material S Backsplash Solid Surface Storage Rooms Melamine fixe Additional cabinet notes Office 5- Sealers, Caulking, All joints and openings large Weatherproofing requirements standards 6- Fire Protection Equation Fire sprinkler system is BID Fire extinguisher in stainless 7- Garage Special Ins See schedules for roll-up designed.	and Weatherproofing and I/4" to be caulked with Owens Cost called out throughtout plans, all exposed Lipment ALTERNATE — see plan steel recessed, lockable cabinet — see p	cabinet Finishopen shelving lineal feed or elevations prining commercial grade caulk or dexterior surfaces need to be printed by the prince of the printed by the p	approved equal. operly weatherproofed accordin	

23- Special Equipment

List all other equipment including manufacturer item numbers, colors and other descriptive features to be supplied an/or installed by contractor or requires a
contractor or subcontractors consideration.

Web-Tries and standard provided and standard provided provided provided and standard provided and standard provided prov	Warehouse rac	rniture, and equipment by owner king — see attached specifications
ALTERNATE 1 - ROOF REPLACEMENT ALTERNATE 2 - FIRE SPRINKLER SYSTEM ALTERNATE 3 - PARKING LOT CHIP SEAL ALTERNATE 4 - REPLACE FRONT WINDOWS ALTERNATE 5 - REPLACE SIDE WINDOWS	Walk-in cooler	and freezer — see attached specifications
ALTERNATE 1 - ROOF REPLACEMENT ALTERNATE 2 - FIRE SPRINKLER SYSTEM ALTERNATE 3 - PARKING LOT CHIP SEAL ALTERNATE 4 - REPLACE FRONT WINDOWS ALTERNATE 5 - REPLACE SIDE WINDOWS		
ALTERNATE 2 - FIRE SPRINKLER SYSTEM ALTERNATE 3 - PARKING LOT CHIP SEAL ALTERNATE 4 - REPLACE FRONT WINDOWS ALTERNATE 5 - REPLACE SIDE WINDOWS	Contractor to	coordinate installation and set—up of all specialty items
ALTERNATE 2 - FIRE SPRINKLER SYSTEM ALTERNATE 3 - PARKING LOT CHIP SEAL ALTERNATE 4 - REPLACE FRONT WINDOWS ALTERNATE 5 - REPLACE SIDE WINDOWS		
ALTERNATE 3 – PARKING LOT CHIP SEAL ALTERNATE 4 – REPLACE FRONT WINDOWS ALTERNATE 5 – REPLACE SIDE WINDOWS		
ALTERNATE 4 - REPLACE FRONT WINDOWS ALTERNATE 5 - REPLACE SIDE WINDOWS		
ALTERNATE 5 - REPLACE SIDE WINDOWS		
A, LEVAL: E - LEMME 537		
	ALTERNATE 6	- EXTERIOR SIGN
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PROJECT NAME



SHEET NAME

Specifications

REVISIONS

DATE

11.6.2025

SHEET NUMBER

a5.2

GENERAL DEMOLITION NOTES

COORDINATE ALL DEMOLITION AND NOTIFY OWNER OF ANY DISCREPANCIES.

TRANSPORT TO OWNER STORAGE AREA.

- . CONTRACTOR SHALL VISIT JOB SITE PRIOR TO BID AND BECOME ACQUAINTED WITH EXISTING CONDITIONS AND EXISTING INSTALLATIONS. NOTIFY ENGINEER, OR OWNER OF CONFLICTS AND DISCREPANCIES.
- . CONDITIONS SHOWN ON PLANS MAY NOT REFLECT "AS-BUILT" CONDITIONS. VERIFY EXISTING CONDITIONS PRIOR TO FINAL BID.
- . OWNER RETAINS RIGHTS TO SALVAGE EQUIPMENT AND FIXTURES REMOVED. COORDINATE WHICH EQUIPMENT TO BE SALVAGED WITH OWNER. COORDINATE LOCATION OF STORAGE WITH OWNER OF SALVAGED ITEMS. AVOID DAMAGE OF EQUIPMENT ON
- . WHERE SHUT-DOWN OF EXISTING SYSTEMS IS REQUIRED DURING DEMOLITION. COORDINATE SHUT-DOWN TIME AND DURATION WITH OWNER TO MINIMIZE DOWNTIME. NOTIFY OWNER 7 DAYS PRIOR TO INTERRUPTION IN SERVICE.
- . INSPECT EXISTING EQUIPMENT TO REMAIN TO VERIFY THAT EQUIPMENT IS OPERATING PROPERLY. NOTIFY OWNER OF DAMAGED
- . CONTRACTOR SHALL AVOID DAMAGE TO EXISTING SURFACES AND EQUIPMENT NOT TO BE DEMO'ED. DAMAGE SHALL BE REPAIRED AT
- . SEAL ALL PENETRATIONS THROUGH WALLS, FLOORS, CEILINGS, AND ROOFS WHERE EQUIPMENT OR ACCESSORIES ARE BEING REMOVED. REPAIR SURFACES TO MATCH ADJACENT AREAS.
- . INSTALL PERMANENT CAPS WHERE PIPING IS REMOVED AND THE EXISTING TAPS ARE NOT USED FOR THE NEW INSTALLATIONS. INSTALL TEMPORARY CAPS FOR THOSE PIPES THAT WILL BE UTILIZED TO PROTECT UNTIL NEW CONNECTIONS ARE INSTALLED,
- 0. ANY EXISTING PIPING THAT NEEDS TO REMAIN BUT INSTALLED IN DEMO'ED WALLS SHALL BE REROUTED AS NECESSARY TO EXISTING OR NEW WALLS.

EXISTING CONDITIONS NOTES

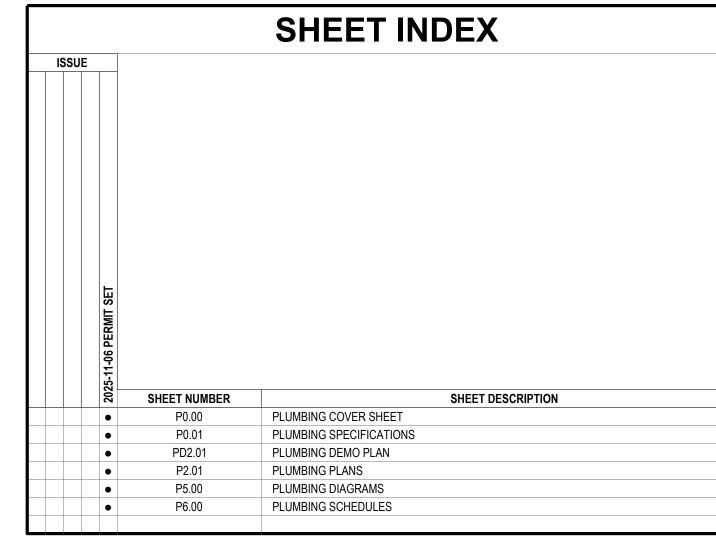
THIS PROJECT INVOLVES CONSTRUCTION INSIDE AN EXISTING STRUCTURE. CONTRACTORS, BY SUBMITTING A BID ARE DEEMED TO BE COMPLETELY FAMILIAR WITH THE EXISTING CONDITIONS OF THE BUILDING AS IT INFLUENCES THE WORK DESCRIBED. NO CLAIMS FOR EXTRA COMPENSATION WILL BE CONSIDERED FOR EXISTING CONDITIONS VISIBLE OR REASONABLY INFERABLE FROM A CAREFUL EXAMINATION OF THE EXISTING BUILDING CONDITIONS.

CONTRACTOR SHALL INSPECT THE EXISTING FIELD CONDITIONS AT THE SITE (INCLUDING BUT NOT LIMITED TO SIZES, INVERTS, AND POINTS OF CONNECTION) AND THE CONTRACT DOCUMENTS PRIOR TO THE START OF ANY WORK TO DETERMINE WHAT EFFECT THE EXISTING CONDITIONS WILL HAVE ON THE WORK POTENTIAL. CONTRACTOR SHALL REPORT DISCREPANCIES TO THE ARCHITECT AND INCLUDE IN THEIR BID ALL COSTS REQUIRED TO MAKE THEIR WORK MEET EXISTING CONDITIONS.

	SYMBOL -	DESCRIPTION SHEET NOTE
	$\widetilde{\Lambda}$	REVISION NUMBER
OR W		SOIL, WASTE OR SEWER - ABOVE AND BELOW GRADE/FLOOR
CWV	CIAN	COMBINATION WASTE AND VENT
	CWV	
GR	GR GR	GREASE WASTE - ABOVE AND BELOW GRADE/FLOOR
SD	——SD———SD——	STORM DRAIN - ABOVE AND BELOW GRADE/FLOOR
OSD	—— OSD —— OSD ——	OVERFLOW STORM DRAIN - ABOVE AND BELOW GRADE/FLOOR
PDP	PDP —	PLANTER DRAIN PIPING BELOW GRADE OR FLOOR
	PDP —	PLANTER DRAIN PIPING ABOVE GRADE OR FLOOR
AW	AW -	ACID WASTE BELOW GRADE OR FLOOR
	AW ———	ACID WASTE ABOVE GRADE OR FLOOR
OD	OD	POOL OVERFLOW DRAIN PIPING
		SLAB DRAIN PIPING
SLD	SLD ———	
V		VENT
AV	AV	ACID VENT
FOV	——— FOV ———	FUEL OIL VENT
ERV		EMERGENCY RELIEF VENT
	— FOS — FOR —	FUEL OIL - SUPPLY AND RETURN
CW		COLD WATER (UNTREATED WATER)(RAW CITY WATER)
HW		HOT WATER
		7.5.1
HWR		HOT WATER RETURN
TW	—	TEMPERED WATER
TWR		TEMPERED WATER RETURN
SCW	s	SOFT COLD WATER
PD	———PD———	PUMPED DRAIN
D	D	DRAIN
		PUMPED WASTE
PW	PW PW	, e.m. ==e.
ICW	——ICW——	INDUSTRIAL COLD WATER
NPW	NPW	NON-POTABLE WATER
	-G-MG-HPG-	PRESSURE GAS - LOW, MEDIUM, AND HIGH
GV	GV	GAS PRESSURE REGULATOR VENT
F	———F———	FIRE LINE
CSP	CSP——	COMBINATION STAND PIPE
001		PIPING BELOW GRADE WITH HEAT TRACE
		PIPING ABOVE GRADE WITH HEAT TRACE
	<u>~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~</u>	GAS - COCK, PRESSURE REGULATOR, METER, AND SOLENOID
	+	HOSE BIBB - NORMAL AND RECESSED
	— 	REDUCED PRESSURE BACKFLOW PREVENTER
O, WCO	θ ⊩	CLEANOUT AND WALL CLEANOUT
AD, OAD	•	AREA DRAIN, OVERFLOW AREA DRAIN
FD	0/0	FLOOR DRAIN/ABOVE
FS		FLOOR SINK/ABOVE
PD		PLANTER DRAIN
DD		DECK DRAIN/ABOVE
RD, ORD	0/ 0	ROOF DRAIN, OVERFLOW ROOF DRAIN/ABOVE
VTR	•	VENT THROUGH ROOF
FSR	○ -F	FIRE SPRINKLER RISER
SOV		SHUT-OFF VALVE
		BALANCING VALVE ASSEMBLY - SOV, CV AND BV
BVA	X	
BV		BALANCING VALVE
CV		CHECK VALVE
PRV	&	PRESSURE REDUCING VALVE
MX		MIXING VALVE
	<i>&</i> -	RELIEF VALVE
		STRAINER WITH BLOW-DOWN VALVE
		FLEXIBLE PIPE CONNECTION
	_ 4	
	 _	UNION
		PIPE TRANSITION
PG	->₩-0	PRESSURE GAUGE
TH		THERMOMETER
WHA		WATER HAMMER ARRESTOR
		PIPE DOWN AND PIPE TEE DOWN
		PIPE UP AND PIPE TEE UP
		PIPE CAP
		ANCHOR
		GUIDE
		FLOW ARROW
POC	8	POINT OF CONNECTION TO EXISTING
	8	POINT OF DISCONNECTION FROM EXISTING
POD		
POD		ITEM TO BE REMOVED
		DEVENOE COMOCIO MATER
(RO)	RO	REVERSE OSMOSIS WATER
	RO SW	REVERSE OSMOSIS WATER SOFT WATER
(RO)		

PLUMBING SYMBOL LIST

(THIS IS A MASTER LEGEND, NOT ALL SYMBOLS MAY APPEAR ON DRAWINGS.)



PLUMBING ABBREVIATION LIST (THIS IS A MASTER LEGEND, NOT ALL ABBREVIATIONS MAY APPEAR ON DRAWINGS.) ACCESS DOOR / AREA DRAIN AMERICANS WITH DISABILITIES ACT ABOVE FINISH FLOOR MAXIMUM ACCESS PANEL 1000 BRITISH THERMAL UNITS PER HOUR AUTO AUTOMATIC MINIMUM CIRCUIT AMPS MCC MOTOR CONTROL CENTER BRAKE HORSEPOWER MANHOLE BUILDING MANAGEMENT SYSTEM MIN MINIMUM MOCP MAXIMUM OVER CURRENT PROTECTION BACK OF HOUSE BTU BRITISH THERMAL UNIT NA NOT APPLICABLE DEGREES CELSIUS NATIONAL ELECTRICAL CODE NATIONAL FIRE PROTECTION ASSOCIATION CUBIC FEET PER HOUR NIC NOT IN CONTRACT CFM CUBIC FEET PER MINUTE NPSHA NET POSITIVE SUCTION HEAD AVAILABLE DIRECT CURRENT NPSHR NET POSITIVE SUCTION HEAD REQUIRED DDC DIRECT DIGITAL CONTROL DDCFP DIRECT DIGITAL CONTROL FIELD PANEL OFCI OWNER FURNISHED/CONTRACTOR INSTALLED DRINKING FOUNTAIN DFU DRAINAGE FIXTURE UNITS DIA (~) DIAMETER PRESSURE AVAILABLE PRESSURE DROP DOWN PLUMBING DRAINAGE INSTITUTE PHASE **EXISTING EFFICIENCY** PRESSURE REDUCING VALVE EMCS ENERGY MANAGEMENT CONTROL SYSTEM PSI POUND PER SQUARE INCH PSIA POUND PER SQUARE INCH ABSOLUTE **EXPANSION TANK** EWC ELECTRIC WATER COOLER PSIG POUND PER SQUARE INCH GAUGE DEGREES FAHRENHEIT RPM REVOLUTIONS PER MINUTE FULL LOAD AMPS SINK, SOIL FEET PER MINUTE SHOWER / STATIC HEAD FEET PER SECOND STATIC PRESSURE FEET FIXTURE UNITS SQ FT SQUARE FEET SERVICE SINK **GALLONS PER HOUR** TESTING AND BALANCING GALLONS PER MINUTE TOTAL DEVELOPED HEAD TOTAL EQUIVALENT LENGTH TRAP PRIMER HEAD TEMPERING STATION HAND OFF AUTO TYPICAL HORSEPOWER

UNO

WP

WPD

UNIFORM MECHANICAL CODE

UNLESS NOTED OTHERWISE UNIFORM PLUMBING CODE

VENT, VOLTS

WATER CLOSET WATER FIXTURE UNITS

WATER GAUGE WATER HEATER

WATER PRESSURE

WATER PRESSURE DROP

WIDTH, WASTE, WATT

HOUR HAND SINK

HERTZ

KILOWATT

INTERNATIONAL BUILDING CODE

INTERNATIONAL MECHANICAL CODE

INTERNATIONAL PLUMBING CODE

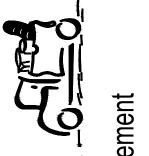
INVERT ELEVATION INTERNATIONAL FIRE CODE INTERNATIONAL FUEL GAS CODE

LENGTH, LAVATORY





PROJECT NAME



SHEET NAME

F NORTHE

PLUMBING COVER SHEET

REVISIONS

DATE

11.06.2025

PLUMBING SPECIFICATIONS

PART 1 GENERAL CONDITIONS

A. GENERAL CONDITIONS, SUPPLEMENTARY CONDITIONS, SPECIAL CONDITIONS, AND OTHER RELATED PORTIONS OF DIVISION 1, APPLY TO THIS SECTION.

SUMMARY OF WORK

A. THE WORK INCLUDED IN THIS SECTION CONSISTS OF LABOR, MATERIALS, AND EQUIPMENT NECESSARY FOR THE INSTALLATION OF A COMPLETE PLUMBING SYSTEM AS INDICATED ON THE DRAWINGS AND AS DESCRIBED HEREIN. INSTALL SYSTEM IN PERFECT WORKING ORDER AND IN FULL ACCORDANCE WITH THE INTENT AND MEANING OF THE DRAWINGS AND SPECIFICATIONS. THE WORK IN GENERAL CONSISTS OF FURNISHING AND INSTALLING NEW PLUMBING FIXTURES AND TRIM INCLUDING CONNECTION OF NEW WASTE, VENT AND WATER PIPING TO EXISTING SERVICES AS REQUIRED TO PUT NEW FIXTURES INTO SERVICE.

REGULATIONS, CODES, PERMITS AND INSPECTIONS

- A. COMPLY WITH NATIONAL, STATE, COUNTY, AND CITY CODES, ORDINANCES, ETC., HAVING JURISDICTION, INCLUDING RULES AND REQUIREMENTS OF UTILITY SERVING AGENCIES.
- INCORPORATE CODES, ORDINANCES, ETC., INTO THE BASE BID AND INSTALLATION OF WORK. NO ADDITIONAL FUNDS WILL BE ALLOCATED FOR WORK REQUIRED TO CONFORM TO REGULATIONS AND REQUIREMENTS AND/OR TO OBTAIN APPROVAL OF WORK.
- OBTAIN AND PAY FOR REQUIRED PERMITS AND LICENSES. WHEN REQUIRED BY CODE, WORK MUST BE INSPECTED AND APPROVED BY LOCAL AUTHORITIES. PRIOR TO FINAL APPROVAL, FURNISH ARCHITECT WITH CERTIFICATES OF INSPECTION AND APPROVALS BY LOCAL AUTHORITIES.
- D. IN ADDITION, THE LATEST EDITION OF THE FOLLOWING PUBLISHED STANDARDS SHALL BE ADHERED TO:
- INTERNATIONAL BUILDING CODE WITH AMENDMENTS: CURRENT ADOPTED VERSION. UNIFORM MECHANICAL CODE WITH AMENDMENTS: CURRENT ADOPTED VERSION.
- NFPA STANDARDS
- 4. UNIFORM PLUMBING CODE WITH AMENDMENTS: CURRENT ADOPTED VERSION. NATIONAL ELECTRIC CODE WITH AMENDMENTS: CURRENT ADOPTED VERSION.
- 6. INTERNATIONAL ENERGY CONSERVATION CODE WITH AMENDMENTS: CURRENT ADOPTED

DESIGN DRAWINGS

- DESIGN DRAWINGS ARE DIAGRAMMATIC AND ARE INTENDED ONLY TO DEFINE THE BASIC FUNCTIONS REQUIRED. PROVIDE LABOR, MATERIAL, ETC., NECESSARY TO ACCOMPLISH THESE REQUIREMENTS. MINOR DEVIATIONS FROM THE DESIGN LAYOUT ARE ANTICIPATED AND SHALL BE CONSIDERED A PART OF THE WORK INCLUDED; HOWEVER, NO CHANGES THAT ALTER THE CHARACTER OF THE WORK WILL BE PERMITTED. DO NOT SCALE THE DESIGN DRAWINGS.
- B. IF A CONFLICT OCCURS BETWEEN THE DESIGN DRAWINGS AND SPECIFICATIONS, PROMPTLY NOTIFY THE OWNER AND/OR ENGINEER. AT THAT POINT, AN INTERPRETATION WILL BE MADE BY THE OWNER AND/OR ENGINEER AND SAID DECISION SHALL BE CONSIDERED PART OF THE CONTRACT DOCUMENTS.

QUALIFICATIONS OF WORKMEN

A. USE SUFFICIENT JOURNEYMEN, CRAFTSMEN AND SUPERVISORS TO ENSURE PROMPT, PROPER, AND SAFE EXECUTION OF THE WORK.

BASE BID

- BASE BID SHALL INCLUDE MATERIALS AND EQUIPMENT SPECIFIED OR SCHEDULED ON THE DRAWINGS. REQUESTS FOR SUBSTITUTION OF MATERIALS AND EQUIPMENT SHALL BE BY ADDITIVE OR DEDUCTIVE ALTERNATE BID ONLY, WITH THE FOLLOWING DATA CLEARLY WRITTEN AT THE BEGINNING OF THE ALTERNATE PROPOSAL:
- 1. ADDITIVE OR DEDUCTIVE AMOUNT CLEARLY WRITTEN IN WORDS AND NUMERALS.
- INCREASED OR REDUCED CONSTRUCTION TIME IN DAYS. 3. OTHER DEMONSTRABLE BENEFIT, FOR WHICH THE SUBSTITUTION OF SUCH ITEM WILL BE IN
- THE OWNER'S INTEREST. ONLY THOSE MATERIALS AND EQUIPMENT WHICH ARE SUBMITTED AS AN ALTERNATE BID AND WHICH ARE ACCOMPANIED BY THE SUPPORTING DATA INDICATED BELOW WILL BE REVIEWED AND

SUBSTITUTIONS

- A. SUBSTITUTE MATERIALS AND EQUIPMENT FROM THE MANUFACTURERS LISTED WILL BE CONSIDERED. PRIOR TO PROPOSING ANY SUBSTITUTE ITEM, CONTRACTOR SHALL SATISFY HIMSELF THAT THE ITEM PROPOSED IS, IN FACT, EQUAL TO THAT SPECIFIED, THAT SUCH ITEM WILL FIT INTO THE SPACE ALLOCATED, THAT SUCH ITEM AFFORDS COMPARABLE EASE OF OPERATION. MAINTENANCE AND SERVICE, THAT THE APPEARANCE, LONGEVITY, CAPACITY AND SUITABILITY ARE COMPARABLE, AND THAT BY REASON OF COST SAVINGS, REDUCED CONSTRUCTION TIME, OR SIMILAR DEMONSTRABLE BENEFIT, THE SUBSTITUTION OF SUCH ITEM WILL BE IN THE OWNER'S
- THE BURDEN OF PROOF OF EQUALITY OF A PROPOSED SUBSTITUTION FOR A SPECIFIED ITEM SHALL BE UPON THE CONTRACTOR. CONTRACTOR SHALL SUPPORT ITS REQUEST WITH SUFFICIENT TEST DATA AND OTHER MEANS TO PERMIT THE ENGINEER TO MAKE A FAIR AND EQUITABLE DECISION ON THE MERITS OF THE PROPOSED SUBSTITUTION. INSUFFICIENT SUBMITTAL DATA WILL RESULT IN REJECTION OF THE PROPOSED SUBSTITUTION. ANY ITEM BY A MANUFACTURER OTHER THAN THOSE SPECIFIED, OR OF BRAND NAME OR MODEL NUMBER, OR OF GENERIC SPECIES OTHER THAN THOSE SPECIFIED, WILL BE CONSIDERED A SUBSTITUTION. ENGINEER WILL BE THE SOLE JUDGE OF WHETHER OR NOT THE SUBSTITUTION IS EQUAL IN QUALITY, UTILITY AND ECONOMY TO THAT SPECIFIED.
- APPROVAL OF A SUBSTITUTION SHALL NOT RELIEVE CONTRACTOR FROM RESPONSIBILITY FOR COMPLIANCE WITH ALL REQUIREMENTS OF THE CONTRACT. CONTRACTOR SHALL BEAR THE EXPENSE FOR ANY CHANGES IN OTHER PARTS OF THIS WORK OR OTHER WORK CAUSED BY THE PROPOSED SUBSTITUTION.
- D. IF ENGINEER REJECTS CONTRACTOR'S SUBSTITUTE ITEM ON THE FIRST SUBMITTAL, CONTRACTOR MAY MAKE ONLY ONE ADDITIONAL REQUEST FOR SUBSTITUTION IN THE SAME CATEGORY.

SUBMITTALS

A. SHOP DRAWINGS:

- 1. PRIOR TO FABRICATION OR DELIVERY OF ANY MATERIAL AND/OR EQUIPMENT TO THE JOBSITE, B. SOIL, WASTE, VENT AND STORM DRAIN: SUBMIT ELECTRONIC INDEXED FILE OF A BROCHURE COMPLETELY DESCRIBING EACH MAJOR SYSTEM, MATERIAL AND EQUIPMENT PROPOSED TO BE USED. ANY PIECE OF EQUIPMENT PLACED ON THE JOB WITHOUT PRIOR APPROVAL WILL BE SUBJECT TO REMOVAL.
- . SUBMITTAL IS FOR INFORMATION AND COORDINATION ONLY. REVIEW OF MATERIAL AND/OR EQUIPMENT SUBMITTALS SHALL IN NO WAY RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY TO COMPLY WITH PLANS AND SPECIFICATION REQUIREMENTS. POINTS OF NON-COMPLIANCE WHICH ARE NOT NOTED SHALL NOT BE CONSTRUED TO BE AN APPROVAL OF THE NON- COMPLIANCE. SUBMITTALS SHALL CLEARLY STATE WHERE EQUIPMENT DOES NOT AGREE WITH THE CONTRACT DOCUMENTS.
- . INCLUDE DETAILED DRAWINGS WHERE REQUIRED FOR PROPER COORDINATION WITH OTHER TRADES. INDICATE EQUIPMENT LAYOUTS, ELECTRICAL CHARACTERISTICS, WIRING AND CONTROL DIAGRAMS, SIZES AND LOCATIONS OF PIPING, DUCTS, CONDUITS, AND OTHER ITEMS WHICH EFFECT THE SPACE AVAILABLE.
- 4. SUBMIT ITEMS AT ONE TIME IN A NEAT AND ORDERLY MANNER WITHIN 15 DAYS OF AWARD OF CONTRACT. PARTIAL LIST WILL NOT BE ACCEPTABLE. SUBMITTALS SHALL INCLUDE MANUFACTURER'S SPECIFICATIONS, PHYSICAL DIMENSIONS, WEIGHTS AND RATINGS OF EQUIPMENT SUBMITTED. SUBMITTALS SHALL BE INDEXED AND SECURELY BOUND IN A SUITABLE MANNER.
- SUBMIT THE FOLLOWING ITEMS FOR APPROVAL:
- a. PLUMBING FIXTURES AND TRIM;
- b. PLUMBING EQUIPMENT;
- c. FLOOR DRAINS; d. FLOOR SINKS;
- e. CLEANOUTS;
- f. PIPING AND FITTINGS:
- g. VALVES; ROOF DRAINS.

2.5 CLEANOUTS 1. MAINTAIN ACCURATE RECORDS OF ANY CHANGES FROM THE CONTRACT DOCUMENTS AND SHOP DRAWINGS. UPON COMPLETION OF THE PROJECT, DELIVER TO THE OWNER ONE (1) SET OF LEGIBLE AND REPRODUCIBLE COPIES OF THESE RECORD DRAWINGS.

C. GUARANTEE:

1. UPON COMPLETION OF THE PROJECT, DELIVER TO THE OWNER A ONE (1) YEAR GUARANTEE OF THE SYSTEMS, MATERIALS AND WORK PERFORMED. GUARANTEE THE ENTIRE COST. INCLUDING MATERIALS AND/OR LABOR, OF CORRECTIVE WORK REQUIRED AND NECESSITATED BY DEFECTS IN MATERIALS AND/OR WORKMANSHIP.

MANUAL AND OPERATING INSTRUCTIONS:

- UPON THE COMPLETION OF THE PROJECT, DELIVER TO THE OWNER A HARD BOUND "OWNER'S MANUAL". INCLUDE IN THE MANUAL INSTRUCTIONS PREPARED SPECIFICALLY FOR THE SYSTEMS PROVIDED, ALONG WITH PAPERS, DESCRIPTIONS, PARTS LISTS, INSTRUCTIONS, WARRANTIES, ETC., WHICH WERE DELIVERED WITH THE MATERIALS AND EQUIPMENT UTILIZED IN THE PROJECT. IDENTIFY EACH ITEM BY THE DESIGNATION APPEARING ON THE DRAWINGS.
- 2. AT A TIME DESIGNATED, PROVIDE A SUITABLE OPERATOR, MECHANIC OR ENGINEER TO REVIEW THE SYSTEMS WITH OWNER'S REPRESENTATIVE TO THOROUGHLY FAMILIARIZE HIM WITH THE OPERATIONS AND MAINTENANCE OF THE SYSTEMS.

PART 2PRODUCTS

2.1 GENERAL PRODUCTS

- FURNISH AND INSTALL NEW PRODUCTS OF ESTABLISHED AND REPUTABLE AMERICAN MANUFACTURERS. ITEMS OF EQUIPMENT USED FOR THE SAME PURPOSE SHALL BE OF THE SAME MANUFACTURER.
- SYSTEMS SHALL BE COMPLETE AND OPERABLE. ANY ACCESSORIES REQUIRED FOR OPERATION OF THE SYSTEMS SHALL BE INCLUDED AS THOUGH SPECIFICALLY INDICATED TO BE PROVIDED. PROVIDE SHUT-OFF VALVES FOR SUPPLY LINES TO EACH INDIVIDUAL ITEM OF EQUIPMENT. VALVES SHALL BE CONCEALED WITHIN FIXTURE OR EQUIPMENT WHERE POSSIBLE.
- SPECIFIC REFERENCE TO A MANUFACTURER'S PRODUCT IS ONLY TO ESTABLISH TYPE, QUALITY, AND PERFORMANCE REQUIRED. THESE QUALIFICATIONS ARE IN ADDITION TO THE REQUIREMENTS SHOWN ON THE PLANS AND ELSEWHERE IN THESE SPECIFICATIONS. LISTING OF ALTERNATE EQUIPMENT MANUFACTURERS SHALL NOT BE CONSTRUED AS AN UNCONDITIONAL APPROVAL OF 3.2 INSTALLATION THE PRODUCTS OF THOSE MANUFACTURERS.

2.2 PIPING MATERIALS

- A. SOIL, WASTE, VENT, AND STORM DRAIN PIPE AND FITTINGS SHALL BE:
- 1. EPOXY COATED CAST IRON ASTM A74 . NO HUB PIPE & FITTINGS: CISPI 301 FITTINGS: CISPI 310 WITH HEAVY DUTY COUPLINGS BY HUSKY PRODUCTS OR EQUAL.
- ALL MANUFACTURED ROOF DRAIN AND OVERFLOW FIXTURES SHALL BE IAPMO LISTED.

B. WATER PIPING BURIED BELOW GRADE:

- COPPER TUBING: ASTM B88, TYPE K, HARD DRAWN. FITTINGS: ANSI/ASME B16.29, WROUGHT COPPER. JOINTS: AWS A5.8, BCUP SILVER BRAZE.
- 2. COPPER TUBING: ASTM B88, TYPE K ANNEALED. NO JOINTS.
- . COPPER TUBING BURIED BELOW GRADE SHALL BE ENCLOSED IN POLYETHYLENE PROTECTIVE SLEEVING EQUAL TO WESTFLEX POLY-SLEEVE.

C. WATER PIPING ABOVE GRADE:

- COPPER TUBING: ASTM B88, TYPE L, HARD DRAWN. FITTINGS: ANSI/ASME B16.23, CAST BRASS, OR ANSI/ASME B16.29, WROUGHT COPPER. JOINTS: SOLDER AND FLUXES SHALL HAVE A LEAD CONTENT OF LESS THAN 0.2 OF 1 PERCENT.
- 2. COPPER TUBING: ASTM B88, TYPE L, HARD DRAWN. FITTINGS: PROPRESS FITTING, BRONZE OR COPPER ASME B16.22. JOINTS: PROPRESS COPPER COMPRESSION FITTING SYSTEM.

D. COOLING COIL CONDENSATE DRAIN PIPING:

- COPPER TUBING: ASTM B306, DWV. FITTINGS: ASME 16.23, CAST BRONZE, OR ASME B16.29, WROUGHT COPPER. JOINTS: ASTM B32, SOLDER, GRADE 50B. WHERE BRANCH DRAINS ARE SMALLER THAN AVAILABLE SIZES IN DWV, USE ASTM B88, TYPE M COPPER TUBING.
- E. NATURAL GAS PIPING BURIED BELOW GRADE (WITHIN 5 FEET OF BUILDING): 1. STEEL PIPE: ASTM A53 OR A120, SCHEDULE 40 BLACK. FITTINGS: ASTM A234, FORGED STEEL WELDING TYPE. WITH ANSI/AWWA C105 POLYETHYLENE JACKET OR DOUBLE LAYER.

HALF-LAPPED 10 MIL POLYETHYLENE TAPE. JOINTS: ANSI/AWS D1.1, WELDED.

- F. NATURAL GAS PIPING BURIED BELOW GRADE (BEYOND 5 FEET OF BUILDING):
- POLYETHYLENE PIPE: ASTM D2513, SDR 11.5. FITTINGS: ASTM D2683 OR ASTM D2513 SOCKET TYPE. JOINTS: FUSION WELDED.

G. NATURAL GAS PIPING ABOVE GRADE:

- 1. GAS PIPING: PRESSURE 14-INCH WATER COLUMN OR LESS. STEEL PIPE: ASTM A53 OR A120, SCHEDULE 40 BLACK. FITTINGS: ANSI/ASME B16.3, MALLEABLE IRON, OR ASTM A234, FORGED STEEL WELDING TYPE. JOINTS: SCREWED FOR PIPE TWO INCHES AND UNDER; ANSI/AWS D1.1,
- WELDED, FOR PIPE OVER TWO INCHES. 2. GAS PIPING: PRESSURE OVER 14-INCH WATER COLUMN. STEEL PIPE: ASTM A53 OR A120, SCHEDULE 40 BLACK. FITTINGS: ASTM A234, FORGED STEEL WELDING TYPE. JOINTS: ANSI/AWS D1.1, WELDED.

H. WATER VALVES:

1. SHALL BE BY THE SAME MANUFACTURER WITH MANUFACTURER'S NAME AND PRESSURE RATING CLEARLY MARKED ON OUTSIDE OF BODY. PROVIDE VALVES SUITABLE TO CONNECT TO ADJOINING PIPE AS SPECIFIED FOR PIPE JOINTS. USE PIPE SIZE GATE VALVES WITH RISING STEM OR BALL VALVES. VALVES SHALL BE 125 # CLASS. JOMAR RECOMMENDED.

GAS SHUT-OFF VALVES:

1. SHALL BE BRONZE BODY, BRONZE TAPERED PLUG, NON-LUBRICATED, TEFLON PACKING, THREADED ENDS.

J. PLUMBING FIXTURES AND TRIM:

1. PROVIDE FIXTURES AS SHOWN ON THE DRAWINGS OR SIMILAR FIXTURES AS MANUFACTURED

BY ZURN, AMERICAN STANDARD, BRIGGS, ELJER, OR KOHLER.

2.3 PIPE SUPPORTS

- ATTACHMENTS FOR PIPING AND EQUIPMENT SUPPORTED BY THE BUILDING STRUCTURE
- SHALL BE DESIGNED TO RESIST SEISMIC FORCES PRESCRIBED IN IBC. 2. WHERE REQUIRED BY THE BUILDING OFFICIAL, PROVIDE STRUCTURAL CALCULATIONS SIGNED BY A LICENSED STRUCTURAL ENGINEER.
- 1. REFER TO TABLE 313.3 OF THE 2018 UPC FOR REFERENCE DISTANCES BASED ON MATERIAL AND SIZE OF PIPES. PROVIDE AS REQUIRED.

C. WATER PIPING:

1. HANGERS SHALL BE B-LINE FIG. 3170CT WITH MAXIMUM SPACING OF FIVE FEET UP TO 3/4-INCH SIZE, SIX FEET UP TO 1-1/4-INCH SIZE, AND EIGHT FEET UP TO 2-INCH SIZE. SUPPORT WATER PIPING IN WALLS WITH LSP "WATER FAB" KITS.

GAS PIPING: HANGERS SHALL BE B-LINE FIG. B3100 WITH MAXIMUM SPACING OF SIX FEET FOR 1/2-INCH

SIZE, EIGHT FEET FOR 3/4-INCH OR 1-INCH SIZE, AND 10 FEET FOR 1-1/4-INCH OR LARGER. 2.4 PIPING INSULATION

- INSULATE ALL DOMESTIC HOT WATER PIPING PER 2018 IECC WITH FACTORY JACKET HAVING SELF-SEALING LAPS. AT PIPE SUPPORTS, PROVIDE WOOD DOWEL OR CALCIUM SILICATE INSERTS AND 16 GAUGE GALVANIZED STEEL SADDLES, 12-INCHES LONG, OR B-LIN FIG. B3151 INSULATION PROTECTION SHIELD.
- B. FOR INTERIOR CONDENSATE DRAIN PIPING, INSULATE WITH 1-INCH THICK GLASS FIBER PIPE INSULATION WITH FACTORY APPLIED WHITE JACKET, MANVILLE MICRO- LOK 850 AP OR APPROVED
- C. INSULATION SHALL HAVE A MAX. FIRE SPREAD OF 25 AND A MAX. SMOKE DENSITY RATING OF 50.

- EXTERIOR SURFACED OR UNSURFACED AREAS (GCO): LINE TYPE WITH PREFABRICATED YARD BOX WITH A REMOVABLE LID MARKED "SEWER" SET FLUSH WITH FINISHED GRADE. (MATERIALS SPECIFIED UNDER PART 2.2, A.)
- INTERIOR FINISHED FLOOR AREAS (FCO): TWO PIECE BODY WITH DOUBLE DRAINAGE FLANGE, WEEP HOLES, REVERSIBLE CLAMPING COLLAR, AND ADJUSTABLE NICKEL-BRONZE, ROUND SCORIATED COVER IN SERVICE AREAS AND ROUND OR SQUARE WITH DEPRESSED COVER TO ACCEPT FLOOR FINISH IN CARPETED AND FINISHED FLOOR AREAS. (MATERIALS SPECIFIED UNDER
- C. INTERIOR FINISHED WALL AREAS (WCO): LINE TYPE WITH PRIME COATED STEEL ACCESS COVER SECURED WITH MACHINE SCREW. (MATERIALS SPECIFIED UNDER PART 2.2 A.)
- INTERIOR UNFINISHED ACCESSIBLE AREAS (WCO): CAULKED OR THREADED TYPE. PROVIDE BOLTED STACK CLEANOUTS ON VERTICAL RAINWATER LEADERS. (MATERIALS SPECIFIED UNDER PART 2.2

PART 3 EXECUTION

3.1 GENERAL

A. INSTALL MATERIALS AND EQUIPMENT IN AN ARRANGEMENT WHICH WILL GIVE THE GREATEST PRACTICAL EASE OF OPERATION AND SERVICE TO THE OWNER.

BE NO VIBRATION AND/OR RATTLING WHEN THE SYSTEM IS IN OPERATION.

- B. INSTALL EQUIPMENT IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDED INSTALLATION
- PERFORM WORK IN ACCORDANCE WITH THE BEST TRADE PRACTICES. INSTALL MATERIALS AND EQUIPMENT SQUARELY WITH THE BUILDING LINES. PROVIDE RIGID PERMANENT BASES AND SUPPORTS FOR WORK. CONSTRUCT AND BRACE EQUIPMENT, PIPING, ETC., SO THAT THERE WILL
- D. COVER AND PROTECT EQUIPMENT AND MATERIALS FROM WEATHER, THEFT, ETC., UNTIL DATE OF COMPLETION. PLUG AND/OR CAP OPEN ENDS OF INSTALLED PIPING.

- CONCEAL PIPING IN WALLS, FURRED SPACES, PIPE SPACES, OR ABOVE SUSPENDED CEILINGS, AS SHOWN ON THE DRAWINGS. GROUP PIPING WHEREVER PRACTICAL AND INSTALL UNIFORMLY IN STRAIGHT PARALLEL LINES, SQUARELY WITH BUILDING LINES.
- SUPPORT HORIZONTAL PIPING WITH PIPE HANGERS. DO NOT USE PERFORATED METAL TAPE. ARRANGE PIPING SO THAT THERMAL EXPANSION DOES NOT CAUSE STRESS. INSTALL AND SECURI PIPING SO THAT HOT AND COLD LINES, AND LINES OF DISSIMILAR METALS, ARE NOT IN CONTACT.
- VERIFY EQUIPMENT DIMENSIONS AND REQUIREMENTS FOR ROUGH-IN WORK. BENDING OR OFFSETTING OF FINISHED PIPING CONNECTIONS AND "COCKING" OF FITTINGS OR TRIM WILL NOT BE ACCEPTABLE. DO NOT SUPPORT ANY PIPING WEIGHT FROM EQUIPMENT.
- D. SANITARY: LAY PIPING AT A UNIFORM GRADE. MAKE JOINTS CLOSE AND SQUARE. USE FITTINGS FOR TURNS AND OFFSETS. UNIFORMLY GRADE AND COMPACT TRENCHES PRIOR TO LAYING PIPING. PROVIDE CONTINUOUS SUPPORT FOR PIPING.
- E. COOLING COIL CONDENSATE DRAIN: AT CONNECTION TO COOLING COIL DRAIN PAN, PROVIDE A RUNNING TRAP, WITH VENT SAME SIZE AS BRANCH DRAIN, DOWNSTREAM FROM TRAP, EXTEND VENT UP TO 6-INCHES ABOVE ROOF DECK. UNIFORMLY GRADE DRAIN PIPING AT 1/8-INCH PER FOOT IN ACCORDANCE WITH UMC SECTION 310. TERMINATE SECONDARY DRAIN AT CEILING WITH A CHROME PLATED ESCUTCHEON AND CUT DRAIN PIPE FLUSH WITH THE ESCUTCHEON OR UNIT SHALL BE PROVIDED WITH AUTOMATIC SHUT-OFF WITH FLOAT SWITCH.
- VENTS THROUGH ROOF SHALL BE SEALED WITH WEATHERPROOF FLASHING CONSTRUCTED OF LEAD OR SHEET METAL COMPATIBLE WITH THE ROOFING SYSTEM SPECIFIED BY THE ARCHITECT.
- G. PIPING CONNECTIONS TO PLUMBING FIXTURES, EXPOSED PIPING AND FITTINGS SHALL BE CHROME
- H. CUTTING AND PATCHING SHALL BE APPROVED BY THE OWNER PRIOR TO PERFORMING THE WORK ALL REQUIRED CLEANOUTS SHALL BE INSTALLED AS PER SECTIONS 707.0 & 719.0 OF THE (UPC) UNIFORM PLUMBING CODE.
- THE FLOOD LEVEL RIM OF THE FIXTURE IT SERVES BEFORE BEING CONNECTED TO ANY OTHER K. PROVIDE SHUT-OFF VALVES FOR SUPPLY LINES TO EACH INDIVIDUAL ITEM OF EQUIPMENT. VALVES SHALL BE CONCEALED WITHIN FIXTURE OR EQUIPMENT WHERE POSSIBLE. INSTALL

EACH VENT SHALL RISE VERTICALLY TO A POINT NOT LESS THAN SIX (6) INCHES IN HEIGHT ABOVE

- CHROME-PLATED ESCUTCHEONS AT WALL PENETRATIONS OF PIPING FOR FIXTURES AND EQUIPMENT. PRESS CONNECTIONS: COPPER PRESS FITTINGS SHALL BE MADE IN ACCORDANCE WITH THE
- MANUFACTURER'S INSTALLATION INSTRUCTIONS. JOINTS SHALL BE PRESSED USING THE TOOL APPROVED BY THE MANUFACTURER. M. ALL WALL PENETRATION SHALL BE SEALED ABOVE CEILINGS AND BE PROVIDED WITH CHROME

ESCUTCHEONS ON ALL EXPOSED PIPING PENETRATIONS. 3.3 TESTING REQUIREMENTS

- TEST SYSTEMS IN ACCORDANCE WITH APPLICABLE CODES, REGULATIONS, ORDINANCES, ETC., IN PARTICULAR THE UNIFORM PLUMBING CODE, AND AS FOLLOWS:
- 1. SANITARY: STATIC WATER PRESSURE FOR ONE (1) HOUR. 2. POTABLE WATER: AVAILABLE PRESSURE FOR ONE (1) HOUR.
- 3. GAS PIPING: PRESSURE 14-INCH WATER COLUMN OR LESS; 10 PSI FOR ONE (1) HOUR. 4. GAS PIPING: OVER 14-INCH WATER COLUMN; 60 PSI FOR ONE (1) HOUR.

5. ROOF DRAINS, OVERFLOW ROOF DRAINS AND RAINWATER PIPING WITHIN THE INTERIOR OF

THE BUILDING: STATIC WATER PRESSURE FOR ONE (1) HOUR

CONCEALED BY INSULATION, BACKFILLING OR BUILDING CONSTRUCTION.

- B. IF ANY TEST SHOWS THE WORK TO BE DEFECTIVE IN ANY WAY OR AT VARIANCE WITH SPECIFICATION REQUIREMENTS, MAKE NECESSARY CHANGES AND REMEDY DEFECTS.
- 3.4 DISINFECTION OF DOMESTIC WATER PIPING SYSTEM

2018 UPC SECTION 609.9.

A. DISINFECT DOMESTIC WATER PIPING IN STRICT CONFORMANCE WITH THE REQUIREMENTS OF THE

C. TEST PIPING SYSTEMS AFTER INSTALLATION AND PRIOR TO BEING PUT INTO USE, COVERED OR

CIFICATION

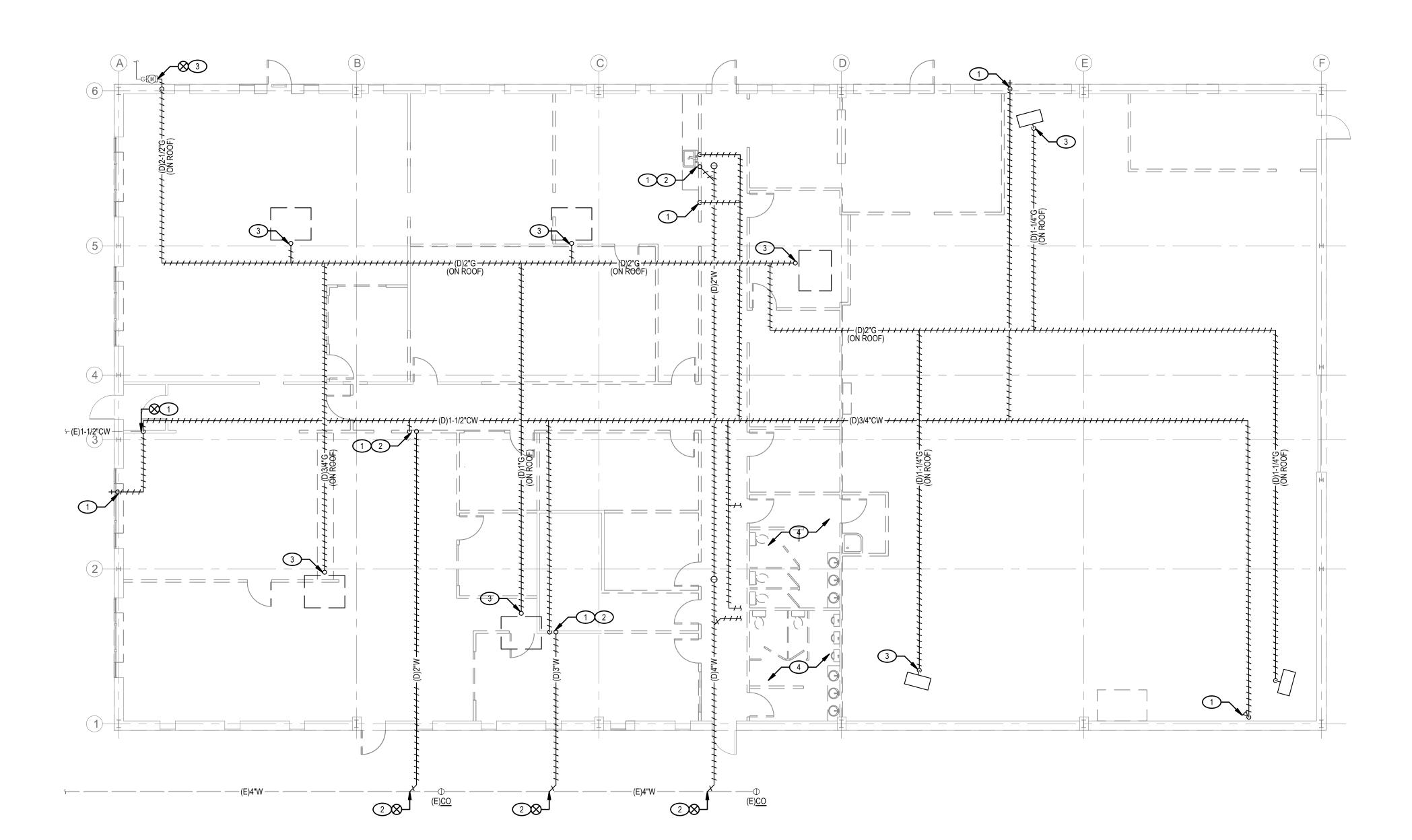
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NV5 Project # - 25-0004625

don.koch@nv5.com



Plumbing Demo Plan

Scale: 1/8" = 1'-0" - Do Not Scale Drawings

SHEET NOTES

1. THE PLUMBING CONTRACTOR SHALL VERIFY IN THE FIELD ALL FLOW LINE ELEVATIONS FROM THE SITE PIPING AND THE FURTHEST UNDER SLAB PIPE WITHIN THE BUILDING. IF THERE ARE ANY CONFLICTS OR ANY INTERFERENCES OF THE SEWER PIPING, IT IS THE CONTRACTOR'S RESPONSIBILITY TO CALL THE NUMBER SHOWN ON THIS SHEET AND ISSUE A R.F.I. PRIOR TO INSTALLATION OF ANY UNDERGROUND OR UNDER SLAB PIPING.

- ALL 4" AND SMALLER DRAINAGE PIPING (STORM & SANITARY) SHALL BE SLOPED AT 1/4" PER FOOT, MINIMUM.
- 3. PLUMBING PLANS ARE DIAGRAMMATIC AND ACTUAL INSTALLATIONS MUST BE FIELD COORDINATED WITH ARCHITECTURAL, STRUCTURAL AND MECHANICAL ELEMENTS. ROUTE ALL PIPING TIGHT TO STRUCTURE TO MAINTAIN CEILING CLEARANCES.
- 4. EXISTING PLUMBING SHOWN FOR REFERENCE ONLY BASED ON BEST AVAILABLE INFORMATION TO NV5. CONTRACTOR TO FIELD VERIFY ALL EXISTING CONDITIONS, SIZES AND EXACT LOCATIONS OF ALL PIPES, WASTE, VENT, WATER AND EQUIPMENT PRIOR TO ANY BID, ROUGH-INS, AND/OR ORDERING OF MATERIALS.

KEY NOTES

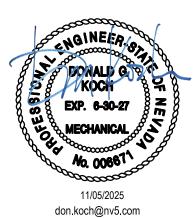
1. EXISTING COLD WATER PIPING WITHIN BUILDING TO BE REMOVED UP TO MAIN SHUT-OFF AS SHOWN. EXISTING PLUMBING EQUIPMENT (LAVATORIES, WATER CLOSETS, SINKS, SERVICE SINKS, DRINKING FOUNTAINS, ETC.) TO BE REMOVED. CONFIRM EXACT ROUTING AND LOCATIONS PRIOR TO CONSTRUCTION.

- 2. EXISTING WASTE PIPING WITHIN BUILDING TO BE REMOVED UP TO EXTERIOR WASTE PIPING MAIN. EXISTING VENT PIPING TO BE REMOVED UP THROUGH ROOF. PATCH AND SEAL ROOF AS NEEDED. CONFIRM EXACT ROUTING AND LOCATIONS PRIOR TO CONSTRUCTION.
- 3. EXISTING GAS PIPING WITHIN BUILDING TO BE REMOVED UP TO GAS METER. SEE MECHANICAL PLANS FOR REMOVAL OF MECHANICAL EQUIPMENT.
- 4. EXISTING RESTROOM PLUMBING FIXTURES AND PIPING TO BE



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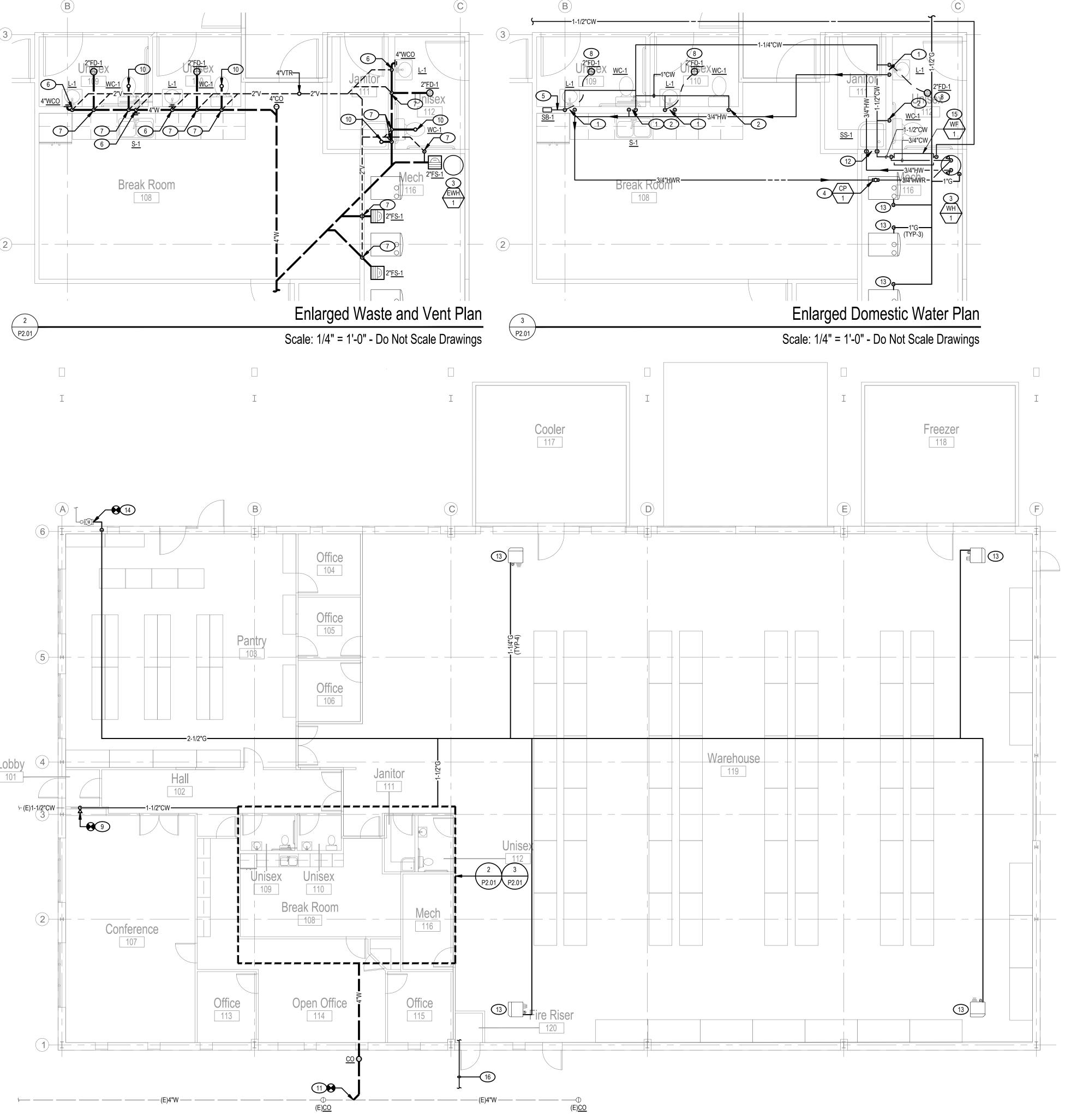
SHEET NAME

REVISIONS

11.06.2025

SHEET NUMBER

PD2.01



Plumbing Plans

Scale: 1/8" = 1'-0" - Do Not Scale Drawings

SHEET NOTES

1. THE PLUMBING CONTRACTOR SHALL VERIFY IN THE FIELD ALL FLOW

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- 2. ALL 4" AND SMALLER DRAINAGE PIPING (STORM & SANITARY) SHALL BE SLOPED AT 1/4" PER FOOT, MINIMUM.
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KEY NOTES

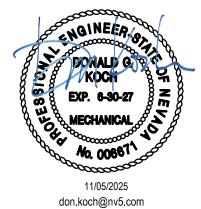
1. 3/4"CW/HW DOWN IN WALL. TEE 1/2"CW/HW TO FAUCET. PROVIDE <u>TMV-1</u> UNDER SINK PRIOR TO FAUCET'S HOT WATER CONNECTION.

- 2. 3/4"CW DOWN IN WALL. PROVIDE 3/4"CW TO WATER CLOSET.
- 3. MOUNT ELECTRIC WATER HEATER MOUNTED OVER SERVICE SINK PER MANUFACTURER'S RECOMMENDATIONS. PROVIDE 3/4"CW/HW CONNECTIONS. SEE ELECTRIC WATER HEATER DIAGRAM.
- 4. MOUNT RECIRCULATION PUMP IN CEILING SPACE PER MANUFACTURER'S RECOMMENDATIONS WITH ACCESS.
- 5. TEE 1/2"CW TO SUPPLY BOX.
- 6. 2"W DOWN, 2"V UP.
- 7. 2"V UP INTO CEILING SPACE.
- 8. INSTALL TAILPIECE TRAP PRIMER PER MANUFACTURER'S RECOMMENDATIONS. ROUTE 1/2"CW FROM TRAP PRIMER TO FLOOR DRAIN TRAP PRIMER CONNECTION.
- CONNECT NEW 1-1/2"CW TO EXISTING BUILDING MAIN. REPLACE EXISTING MAIN SHUT-OFF VALVE WITH NEW AND ENSURE ACCESS.
- 10. 3"W UP TO FIXTURE.
- 11. CONNECT NEW 4"W TO EXISTING EXTERIOR WASTE MAIN. VERIFY EXACT LOCATION AND INVERT PRIOR TO CONSTRUCTION.
- 12. 3/4"CW/HW DOWN IN WALL AND PROVIDE 3/4"CW/HW CONNECTIONS TO SERVICE SINK FAUCET.
- 13. MECHANICAL EQUIPMENT SHOWN FOR REFERENCE ONLY. SEE MECHANICAL PLANS. SEE GAS PIPING ISOMETRIC 9/P5.00 FOR GAS CONNECTION DETAILS.
- 14. CONNECT NEW 2-1/2"G PIPE TO EXISTING METER FOR NEW HEADER. REPLACE METER WITH NEW IF NECESSARY TO MEET NEW LOAD. SEE GAS PIPING ISOMETRIC 9/P5.00 FOR ALL GAS SIZING DETAILS.
- 15. INSTALL WATER FILTER WF-1 ON WALL AT 48" AFF.
- 16. 6" FIRE SERVICE WATER PIPING TO FIRE RISER ROOM. FINAL SIZE SHALL BE DETERMINED BY DESIGN CALCULATIONS, SEE CIVIL ENGINEER'S DRAWINGS FOR EXACT LOCATION AND SIZE.

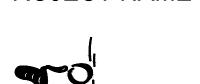
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PROJECT NAME



Fenant Improvement 111 W. Front Street

SHEET NAME

UMBING PLANS

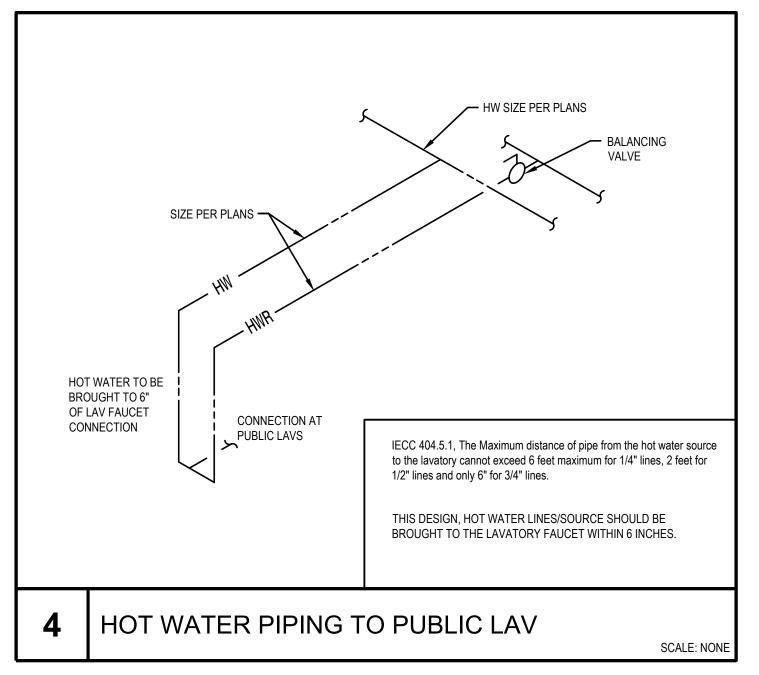
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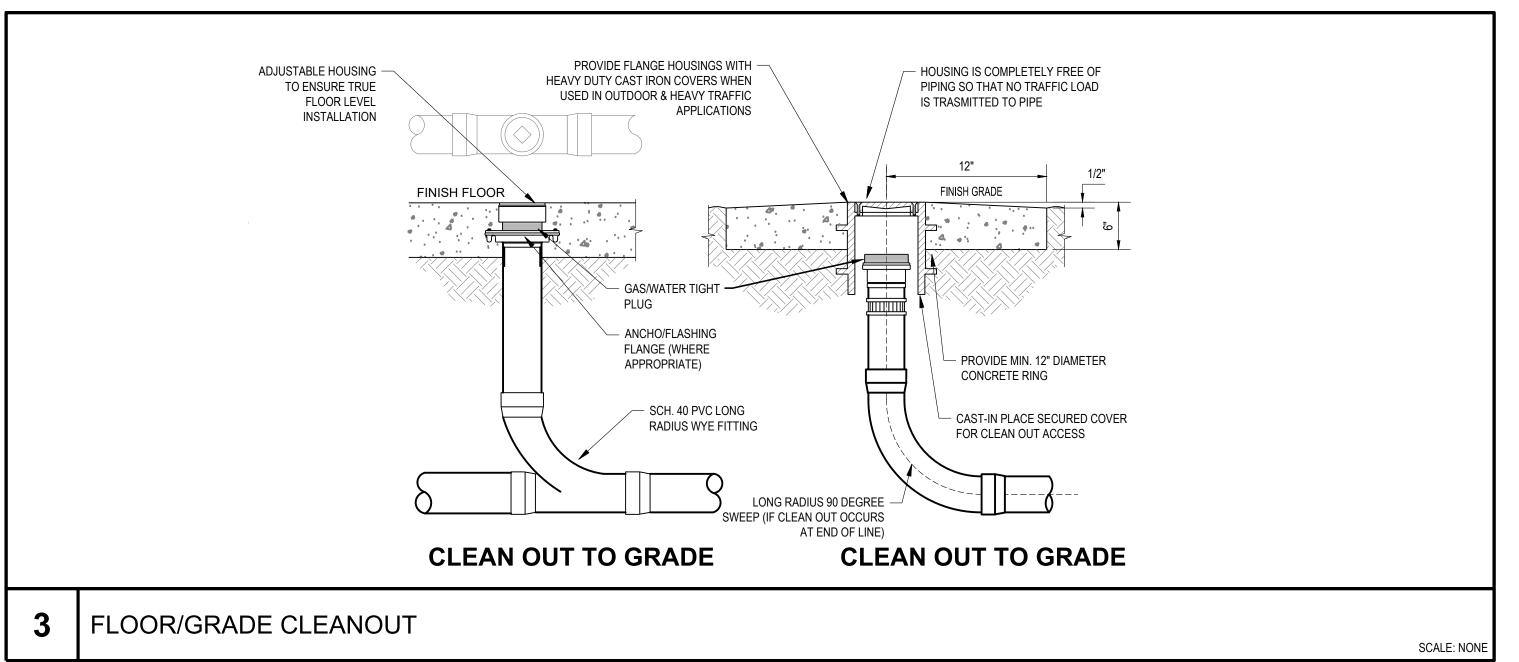
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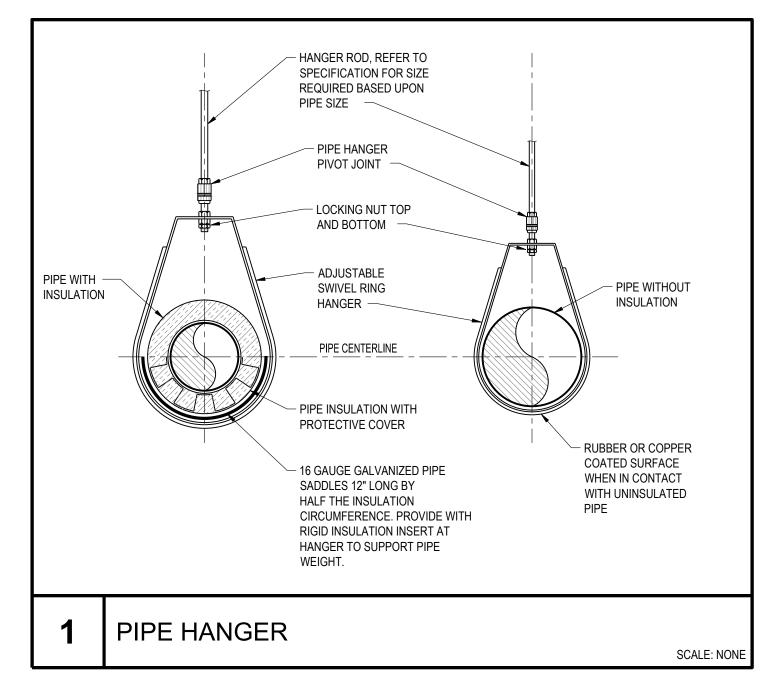
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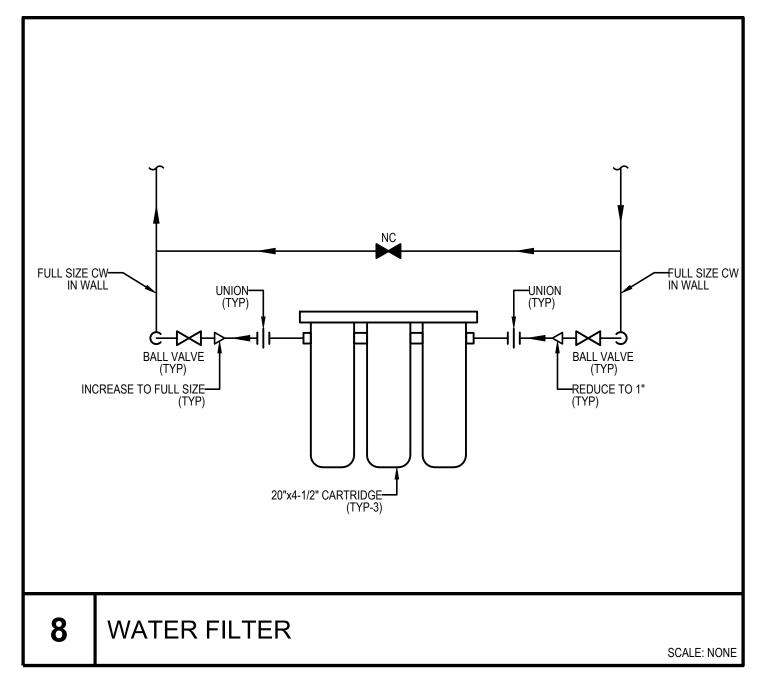
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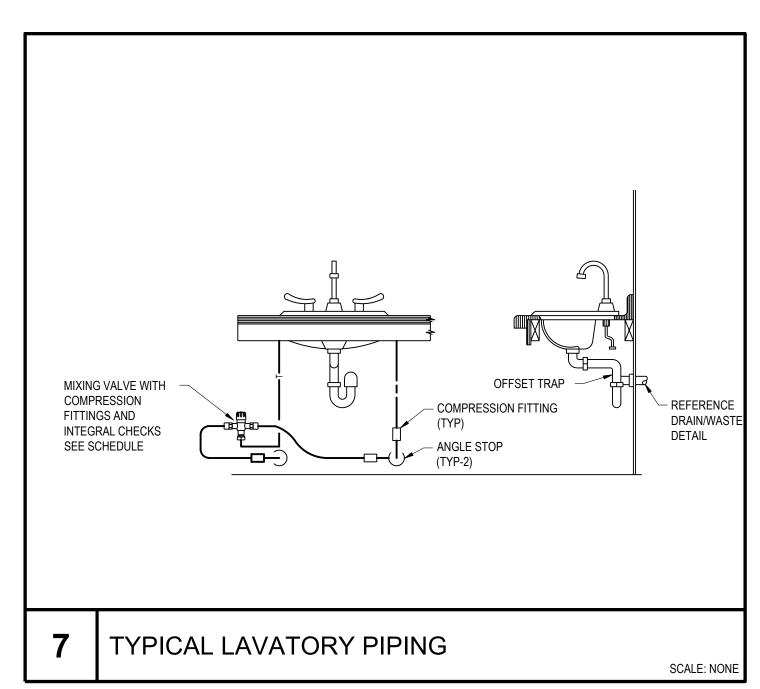
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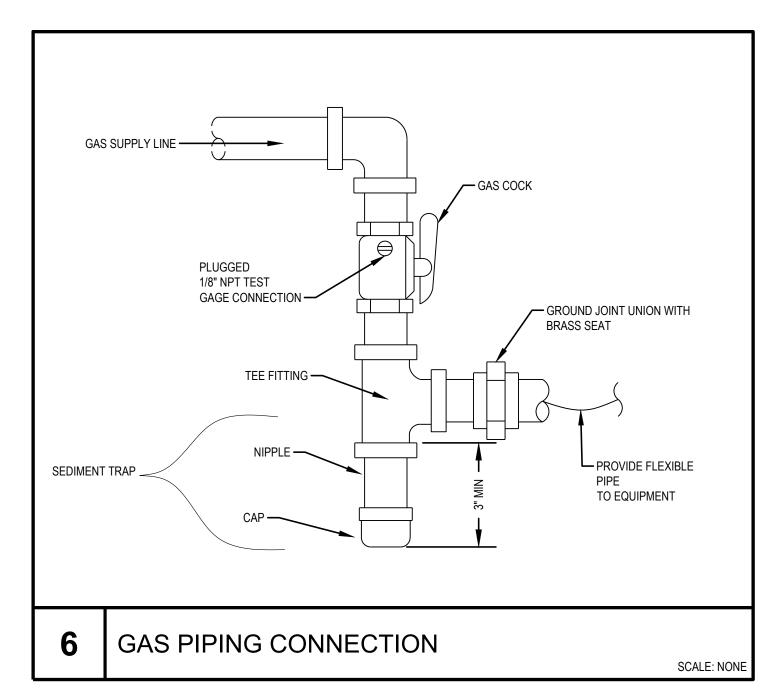


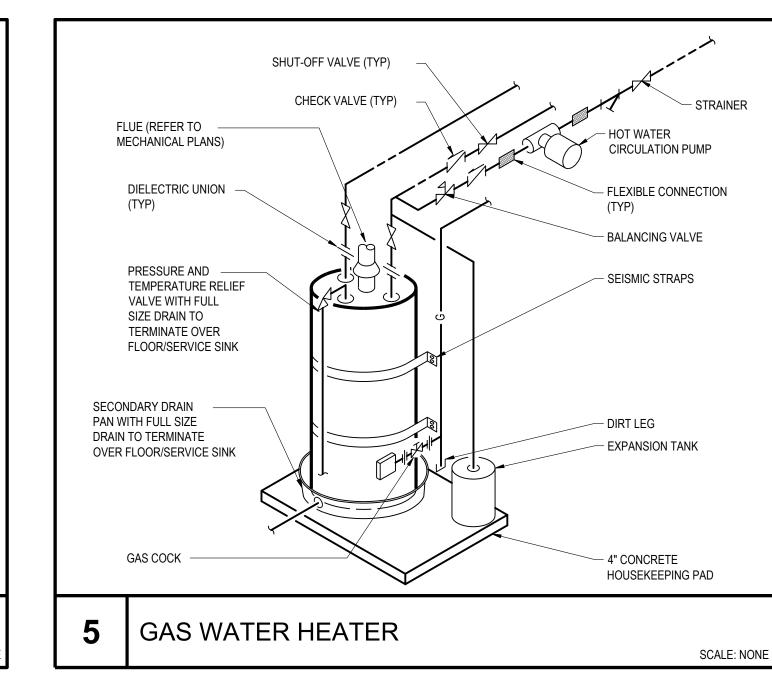


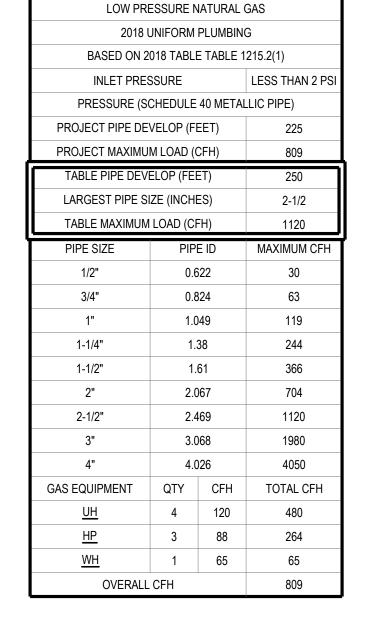


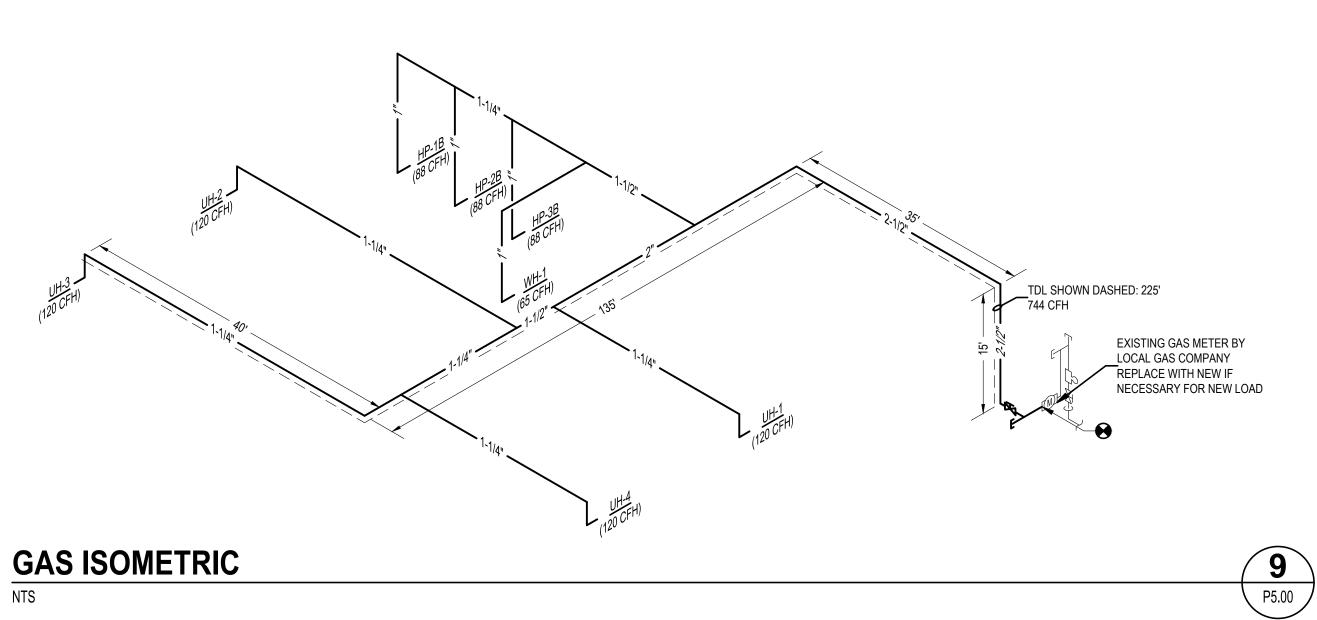














PROJECT NAME

don.koch@nv5.com

POOD BANK OF OF NORTHERN NEVADA OF NORTHERN NEVADA OF 111 W. Front Street
Fiko Nevada

SHEET NAME

PLUMBING DIAGRAMS

REVISIONS

DATE

11.06.2025

SHEET NUMBER

P5.00

	REV	ISED	FIXTUI	RE UN	IT CO	UNT	
REMOVED FIXTURES	COLD WATER FIXTURE UNITS	HOT WATER FIXTURE UNITS	DRAINAGE FIXTURE UNITS	QUANTITY	TOTAL CWFU	TOTAL HWFU	TOTAL DFU
WATER CLOSET	2.5	0	4.0	5	12.5	0.0	20.0
URINAL	4.0	0	2.0	3	12.0	0.0	6.0
LAVATORY	0.75	0.75	1.0	6	4.5	4.5	6.0
FLOOR DRAIN	0	0	2.0	2	0.0	0.0	4.0
SERVICE SINK	2.25	2.25	3.0	1	2.3	2.3	3.0
PANTRY SINK	1.5	1.5	2	1	1.5	1.5	2.0
ICE MAKER BOX	0.5	0	0	1	0.5	0.0	0.0
			REMOVED FIXTU	IRE UNIT TOTALS	33.3	8.3	41.0
ADDED FIXTURES	COLD WATER FIXTURE UNITS	HOT WATER FIXTURE UNITS	DRAINAGE FIXTURE UNITS	QUANTITY	TOTAL CWFU	TOTAL HWFU	TOTAL DFU
WATER CLOSET							
(1.6 GPF)	2.5	0	3.0	3	7.5	0.0	9.0
(1.6 GPF) LAVATORY	2.5 0.75	0.75	3.0	3	7.5 2.3	0.0	9.0
· , , , , , , , , , , , , , , , , , , ,							
LAVATORY	0.75	0.75	1.0	3	2.3	2.3	3.0
LAVATORY PANTRY SINK FLOOR DRAIN	0.75 1.2	0.75 1.2	1.0	3	2.3	2.3	3.0 2.0
LAVATORY PANTRY SINK FLOOR DRAIN (EMERGENCY)	0.75 1.2 0	0.75 1.2 0	1.0 2.0 0	3 1 3	2.3 1.2 0.0	2.3 1.2 0.0	3.0 2.0 0.0
LAVATORY PANTRY SINK FLOOR DRAIN (EMERGENCY) FLOOR SINK	0.75 1.2 0	0.75 1.2 0	1.0 2.0 0 2.0 3.0	3 1 3 4	2.3 1.2 0.0	2.3 1.2 0.0 0.0	3.0 2.0 0.0 8.0

ITEM	FIXTURE	MANUFACTURER/MODEL	ROUGH-IN SIZE (INCHES)				REMARKS
I I EIVI	FIXTURE	MANUFACTURER/MODEL	TW/HW	CW	V	S/W	KEWIAKNS
<u>WCO</u>	WALL CLEANOUT	JR SMITH #4472	-	-	-	-	PROVIDE WITH ROUND STAINLESS STEEL COVER PLATE.
<u>CO</u>	FLOOR CLEANOUT	JR SMITH #4043	-	-	-	-	PROVIDE WITH ROUND BRASS FLOOR COVER PLATE.
<u>FD-1</u>	FLOOR DRAIN	ZURN #Z415	-	-	2	2	CAST IRON W/ ANCHOR FLANGE, SST SCREWS INSTALL SURE-SEAL FLOOR DRAIN TRAP SEALER AND TRAP PRIMER CONNECTION.
<u>WC-1</u>	WATER CLOSET ADA	ZURN #Z551-K	-	1/2	2	3	FLOOR-MOUNTED, ELONGATED BOWL, VITREOUS CHINA, 1.6 GPF, TWO-PIECE, SIPHON JET, ADA.
<u>L-1</u>	LAVATORY	ZURN #Z5340-PED	1/2	1/2	1-1/2	2	20"x18" WALL-HUNG VITREOUS CHINA LAVATORY, FAUCET: ZURN #Z812B-XL-3F, MANUAL INDEXED ADA HANDLES, 0.5 GPM LAMINAR FLOW.
<u>SS-1</u>	SERVICE SINK	E.L. MUSTEE #63M	3/4	3/4	1-1/2	3	24"x24" COMPOSITE MODEL WITH 10" HIGH WALLS, FAUCET: MUSTEE #63.600A WALL MOUNTED, CHROME PLATED, WITH INTEGRAL VACUUM BREAKER, INTEGRAL STOPS, WALL BRACE, PAIL HOOK, AND 3/4" HOSE THREAD SPOUT; MOP BRACKET: MUSTEE #65.600CC 24" WIDE, STAINLESS STEEL, W/3 RUBBER GRIPS; VINYL BUMPER GUARD: MUSTEE 63.401; STRAINER: FIAT #1453BB STAINLESS STEEL; HOSE AND BRACKET: MUSTEE #65.700 31" LONG HOSE WITH BRASS COUPLING, 5" WIDE, RUBBER GRIP.
<u>S-1</u>	SINK	ELKAY #ECTSRAD33226TBH	1/2	1/2	1-1/2	2	33"x22"x6" DOUBLE BASIN, UNDERMOUNT, ADA COMPLIANT, FAUCET: MOEN #7565 SRS VERSION, PULL-DOWN SPRAY, SINGLE HANDLE 1.5 GPM, PROVIDE GARBAGE DISPOSER IN-SINK AERATOR MODEL BADGER 500 (1/2 HP).
<u>SB-1</u>	SUPPLY BOX	SIOUX CHIEF #696-G1010MF	-	1/2	-	-	OXBOX ICE MAKER SUPPLY BOX WITH MINI WATER ARRESTOR. 1/4" O.D. COMPRESSION OUTLET CONNECTION.

NOTE:

1. FIXTURES RELATED TRIM AND ACCESSORIES TO BE SUBMITTED TO ARCHITECT/TENANT FOR REVIEW, COLOR AND FINISH SELECTIONS PRIOR TO ORDERING, AND/OR ANY ROUGH-IN COORDINATION.

2. EXPOSED P-TRAPS, ARMS AND SUPPLY PIPING SHALL BE COVERED BY PLUMBREX PRODUCTS OR EQUAL PRODUCTS MEETING "E-85" STANDARDS.

	GAS WATER HEATER SCHEDULE										
				STORAGE	RECOVERY	TEMPERATURE	INDUT	ELECTRICAL	MAXIMUM	DIMENSIONS	
ITEM	LOCATION	SERVICE	MANUFACTURER MODEL NUMBER	CAPACITY (GAL)	RATE (GPH)	RISE (°F)	INPUT (MBH)	V/PH	OPERATING WEIGHT (LBS)	(LxWxH) (IN)	NOTES
<u>WH-1</u>	MECHANICAL ROOM	RESTROOMS / BREAK ROOM	BRADFORD WHITE LG250H653N	48	63	100	65	120 / 1	54	22x25.5x60.5	1 THRU 6

1. MOUNT PER MANUFACTURER'S RECOMMENDATIONS.4. NON-SIMULTANEOUS ELEMENTS.2. SHALL MEET LATEST EDITION OF ASHRAE 90.1 STANDARDS.5. PROVIDE EXPANSION TANK AS SCHEDULED.3. PROVIDE WITH ASME PRESSURE AND TEMPERATURE RELIEF VALVE.6. PROVIDE CONDENSATE NEUTRALIZER KIT BY MANUFACTURER.

	WATER FILTER SCHEDULE							.E
ITEM	LOCATION	MANUFACTURER MODEL NUMBER	QUANTITY TANKS	PEAK FLOW RATE (GPM)	INLET/ OUTLET SIZE (IN)	DRAIN SIZE (IN)	FILTER SIZE (DIAxH) (IN)	NOTES
<u>WF-1</u>	MECHANICAL ROOM	iSPRING #WGB32-B	3	15	1"	1/2	4-1/2x20	1,2,3
BLOCK FILTE	1. PROVIDE (1) 5 MICRON SEDIMENT SCALE FILTER AND (2) CTO CARBON BLOCK FILTERS. 2. MOUNT PER MANUFACTURER'S RECOMMENDATIONS.					WITH (2) SPAF	RE CARBON CA	RTRIDGES AND (1) SPARE SEDIMENT

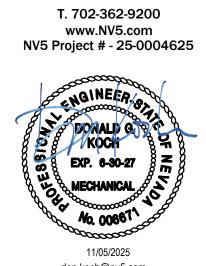
	WATER I	PIPE SIZING	INFORMATI	ON
PIPE SIZES BASE	D ON THE 2018 UPC APPENDIX A - FA	AIRLY ROUGH CHART A105.1(3)		
SERVICE PRESSUF	RE: 40 PSI			
STATIC HEAD = 7	FT. X 0.43 = 3.0PSI			
PRESSURE AVAIL.	= 40(BUILDING PRESS.) - 25 (REQ). PRESS.) - 3.0 (S.H.)= 12.0 PSI		
LONGEST RUN IN E	BUILDING = 125 FT			
50% FITTING LENG	TH = 63 FT.			
TOTAL LENGTH =	188 FT.			
ALLOWABLE FRICT	TION LOSS/100 FT. = 12.0 (100) = 6.3	38 PSI		
NOTE: CONTRAC	188 TOR TO VERIFY EXISTING WATER PR	RESSURE ON SITE, ADVISE ENGINEER	IF PRESSURE IS 10 PSIG LESS THAN NO	OTE.
PIPE SIZE	MAX FLOW (GPM)	FLUSH TANK FIXTURE UNITS	FLUSH TANK FIXTURE UNITS	VELOCITY (FPS)
1/2"	1.6	1	-	3.0
3/4"	4.3	6	-	3.5
1"	11	15	-	4.0
1 1/4"	17	24	-	4.5
1 1/2"	30	54	13	5.0
2"	60	175	76	6.0

PIPI	NG MATERIALS SCHEDULE
SERVICE	MATERIALS
DOMESTIC WATER (ABOVE GRADE)	TYPE L COPPER ABOVE GRADE, TYPE K COPPER BELOW GRADE. PRO-PRESS FITTINGS APPROVED AS EQUAL TO WELDED PIPES & FITTINGS, AND VALVES. FOR LARGER SIZES: 3" AND UP SCHEDULE 10 SS, 316L PIPING MAY BE USED WITH FULLY COMPATIBLE STAINLESS STEEL PREFORMED FITTINGS AND VALVES. COUPLINGS BY VICTAULIC FOR DOMESTIC WATER USAGE OR EQUAL PERFORMANCE FITTINGS. INSULATE ALL DOMESTIC HOT AND HOT WATER RETURN PIPING PER THE REQUIREMENTS OF IECC C404.4 AND TABLE C403.12.3.
WASTE AND VENT GREASE WASTE AND VENT (BELOW GRADE)	SCHEDULE 40 PVC WITH SOLVENT WELD FITTINGS BELOW GRADE.
WASTE AND VENT GREASE WASTE AND VENT (ABOVE GRADE)	CAST IRON SOIL PIPE WITH NO-HUB FITTINGS ABOVE GRADE.
CONDENSATE	PVC SCHEDULE 40, FITTINGS: PVC SCHEDULE 40, JOINTS: SOLVENT WELD, INSULATION: FIBERGLASS. FLOWGUARD GOLD CTS WITH SOLVENT WELD FITTINGS FOR ALL PIPING ALL AREAS EXCEPT AS NOTED HEREIN; TYPE 'M' COPPER WITH SOLDER JOINTS FOR NON-HUMID AREAS. STAINLESS STEEL FOR ALL CONDESATE FROM CONDENSING EQUIPMENT. i.e. HEATERS/HUMIDIFIERS

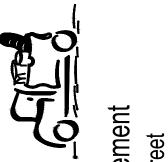
SYSTEM / LOCATION	MATERIALS					
DOMESTIC HOT WATER, HOT WATER RETURN AND TEMPERED WATER PIPING	PROVIDE 1" THICK, NON-COMBUSTIBLE, PRE-FORMED, FIBERGLASS PIPE INSULATION WITH A CONDUCTIVITY K-VALUE 0.27 AT 75 DEGREES FAHRENHEIT ON ALL PIPING 2" OR SMALLER, AND 1-1/2" THICK INSULATION ON ALL PIPING 2-1/2" AND LARGER. ALL INSULATION SHALL HAVE A FACTORY JACKET OR REINFORCED FOIL VAPOR BARRIER WITH SELF-SEALING ADHESIVE JOINTS. ALL VALVES, FITTINGS AND ACCESSORIES TO BE INSULATED AS WELL.					
COLD WATER IN UNCONDITIONED SPACES	THE INSULATION REQUIREMENTS FOR COLD WATER PIPING THAT IS LOCATED IN AN UNCONDITIONED SPACE IS THE SAME AS THAT FOR ALL HOT WATER PIPING.					
NTERIOR LOCATED CONDENSATE DRAIN PIPING	PROVIDE 1/2" THICK INSULATION ON ALL CONDENSATE PIPING LOCATED INDOORS. THE INSULATION SHALL BE NON-COMBUSTIBLE, PRE-FORMED, FIBERGLASS INSULATION WITH FACTORY APPLIED WHITE JACKET EQUAL TO MANVILLE MICRO-LOK 850.					
INSULATED PIPING EXPOSED TO VIEW	ALL INSULATED PIPING EXPOSED TO VIEW SHALL BE COVERED AND FINISHED WITH PVC JACKET EQUAL TO MANVILLE PVC/ PERMA-PIPE JACKETING SYSTEM USING 30 MIL THICK JACKET INSTALLED PER MANUFACTURER'S INSTRUCTIONS WITH SEAM ON TOP SO AS NOT TO BE VISIBLE FROM OCCUPIED SPACES.					
OOMESTIC WATER LOCATED OUTDOORS	INSULATION THICKNESS ON ALL PIPING LOCATED OUTDOORS SHALL BE DOUBLE THAT OF INDOOR PIPING, WITH A MAXIMUM THICKNESS OF 3", AND HEAT-TRACED SYSTEM INSTALLED PER MANUFACTURER'S INSTRUCTIONS TO PREVENT FREEZING WHERE NECESSARY, AND SHALL BE PROVIDED WITH A 0.16" THICK ALUMINUM JACKETING.					
PIPING LOCATED BELOW HANDICAP SINK/LAV	INSULATE ALL HOT AND COLD WATER PIPING, ANGLE STOPS AND SUPPLIES, WASTE PIPING, OFFSETS AND P-TRAPS LOCATED AT ALL HANDICAP LAVATORIES AND SINKS EXPOSED TO VIEW SHALL BE COVERED AND FINISHED WITH WHITE SKAL-GARD, PRO-WRAP OR APPROVED EQUAL INSTALLED PER MANUFACTURER'S INSTRUCTIONS.					

CONSULTANT

5155 W Patrick Lane
Las Vegas, NV 89118



PROJECT NAME



Tenant Improvement 111 W. Front Street Elko. Nevada

UMBING SCHEDULES

REVISIONS

DATE

11.06.2025

SHEET NUMBER

P6.00

		HANICAL SYMBOL LIST MASTER LEGEND, NOT ALL SYMBOLS MAY APPEAR ON DRAWINGS.)
ABBR	SYMBOL	DESCRIPTION
HDDK	- STWBOL	SHEET NOTE
	Δ	REVISION NUMBER
	/~	RECTANGULAR DUCTWORK (IN) - ROUND DUCTWORK (IN)
SA RA	⊠ ⊙ /⊠ ⊙ ☑ ⊙/☑ ⊙	SUPPLY AIR DUCT UP/DOWN RETURN AIR DUCT UP/DOWN
EA		EXHAUST AIR DUCT UP/DOWN
OA		OUTSIDE AIR DUCT UP/DOWN
		SUPPLY, RETURN, EXHAUST - DIFFUSER, GRILLE, OR REGISTER
		LINEAR SLOT DIFFUSER, GRILLE OR REGISTER
		SIDEWALL SLOT DIFFUSER, GRILLE OR REGISTER AIR FLOW DIRECTION ARROW
	—/—	SINGLE LINE RIGID DUCT/WITH ACOUSTICAL LINER
		DOUBLE LINE RIGID DUCT/WITH ACOUSTICAL LINER
	CIA	SINGLE/DOUBLE LINE RADIUS DUCT ELBOW
	<u> </u>	SINGLE/DOUBLE LINE MITERED DUCT ELBOW
FSD		DOUBLE LINE DUCT TRANSITION DAMPERS - FIRE, SMOKE, AND COMBINATION FIRE/SMOKE
D, BDD	MBDD	DAMPERS - MOTORIZED AND BACKDRAFT
MVD	⊚	DAMPERS - MANUAL AND MANUAL WITH REMOTE OPERATION
DD	— DD	DUCT MOUNTED SMOKE DETECTOR
CHS/R	— CHS — — CHR —	CHILLED WATER - SUPPLY AND RETURN
HS/R D	— HS — HR —	HOT WATER - SUPPLY AND RETURN DRAIN
ICW		INDUSTRIAL COLD WATER
CS/R	— CS — CR —	CONDENSER WATER - SUPPLY AND RETURN
_PS/R	— LPS — LPR —	LOW PRESSURE STEAM - SUPPLY AND RETURN
HPS/R	— HPS — HPR —	HIGH PRESSURE STEAM - SUPPLY AND RETURN
RL/S PD	— RL — RS —	REFRIGERANT - LIQUID AND SUCTION PUMPED DRAIN
S/R	—— S —— R ——	HYDRONIC LOOP - SUPPLY AND RETURN
CV		CONTROL VALVE (2-WAY, 3-WAY)
PCV		PNEUMATIC CONTROL VALVE (2-WAY, 3-WAY)
V, SOV		GATE VALVE/SHUT-OFF VALVE
TV BV		THROTTLING VALVE BALANCING VALVE
CV		CHECK VALVE
PRV	———————	PRESSURE REDUCING VALVE
RV	ø	RELIEF VALVE
	<u> </u>	STRAINER WITH BLOW-DOWN VALVE
FPC		FLEXIBLE PIPE CONNECTION UNION
AV		AIR VENT
7.11		DUCT OR PIPE SINGLE LINE TRANSITION
PG	₽₩Ο	PRESSURE GAUGE
TH	-	THERMOMETER
	FS FS	FLOW SWITCH
		PIPE DOWN AND PIPE TEE DOWN
		PIPE UP AND PIPE TEE UP PIPE CAP
		ANCHOR
		GUIDE
		FLOW ARROW
	<u> </u>	THERMOSTAT
	<u> </u>	HUMIDISTAT SPACE TEMPERATURE SENSOR WITH PLUG-IN PORT
	 ©	OCCUPANCY SENSOR
	Ö	CARBON DIOXIDE SENSOR
	©	CARBON MONOXIDE SENSOR
POC POD	 	POINT OF CONNECTION TO EXISTING POINT OF DISCONNECTION FROM EXISTING
POD	<u> </u>	ITEM TO BE REMOVED
	(TYP) SA-8 250 (TYP) SA-12x12 250 (TYP)	POWERED MECHANICAL EQUIPMENT TYPE POWERED MECHANICAL EQUIPMENT NUMBER CFM/GPM, (TYP) INDICATES TYPICAL FOR SIMILAR EQUIPMENT NON-POWERED MECHANICAL EQUIPMENT TYPE NON-POWERED MECHANICAL EQUIPMENT NUMBER CFM/GPM, (TYP) INDICATES TYPICAL FOR SIMILAR EQUIPMENT AIR TERMINAL TYPE - ROUND NECK SIZE, SEE AIR TERMINAL SCHEDULE CFM (TYP) INDICATES TYPICAL FOR SIMILAR DEVICES AIR TERMINAL TYPE - RECTANGULAR NECK SIZE, SEE AIR TERMINAL SCHEDULE CFM (TYP) INDICATES TYPICAL FOR SIMILAR DEVICES PLAN/RISER TYPE
	-	SHEET/RISER NUMBER

GENERAL DEMOLITION NOTES

COORDINATE ALL DEMOLITION AND NOTIFY OWNER OF ANY DISCREPANCIES.

- 2. CONTRACTOR SHALL VISIT JOB SITE PRIOR TO BID AND BECOME ACQUAINTED WITH EXISTING CONDITIONS AND EXISTING INSTALLATIONS. NOTIFY ENGINEER, OR OWNER OF CONFLICTS AND DISCREPANCIES.
- 3. CONDITIONS SHOWN ON PLANS MAY NOT REFLECT "AS-BUILT" CONDITIONS. VERIFY EXISTING CONDITIONS PRIOR TO FINAL BID.
- 4. OWNER RETAINS RIGHTS TO SALVAGE EQUIPMENT AND FIXTURES REMOVED. COORDINATE WHICH EQUIPMENT TO BE SALVAGED WITH OWNER. COORDINATE LOCATION OF STORAGE WITH OWNER OF SALVAGED ITEMS. AVOID DAMAGE OF EQUIPMENT ON TRANSPORT TO OWNER STORAGE AREA.
- 5. WHERE SHUT-DOWN OF EXISTING SYSTEMS IS REQUIRED DURING DEMOLITION, COORDINATE SHUT-DOWN TIME AND DURATION WITH OWNER TO MINIMIZE DOWNTIME. NOTIFY OWNER 7 DAYS PRIOR TO INTERRUPTION IN SERVICE.
- INSPECT EXISTING EQUIPMENT TO REMAIN TO VERIFY THAT EQUIPMENT IS OPERATING PROPERLY. NOTIFY OWNER OF DAMAGED
- 7. CONTRACTOR SHALL AVOID DAMAGE TO EXISTING SURFACES AND EQUIPMENT NOT TO BE DEMO'ED. DAMAGE SHALL BE REPAIRED AT NO COST TO THE OWNER.
- 3. SEAL ALL PENETRATIONS THROUGH WALLS, FLOORS, CEILINGS, AND ROOFS WHERE EQUIPMENT OR ACCESSORIES ARE BEING REMOVED. REPAIR SURFACES TO MATCH ADJACENT AREAS.
- . HANGERS AND SUPPORTS FOR DUCTWORK AND EQUIPMENT SHALL BE REMOVED IN INSTANCES WHERE NEW INSTALLATION WILL NOT REQUIRE THEM.
-). INSTALL PERMANENT CAPS WHERE DUCTWORK AND PIPING IS REMOVED AND THE EXISTING TAPS ARE NOT USED FOR THE NEW INSTALLATIONS. INSTALL TEMPORARY CAPS FOR THOSE PIPES AND DUCTS THAT WILL BE UTILIZED TO PROTECT UNTIL NEW CONNECTIONS ARE INSTALLED,
- 11. ANY EXISTING PIPING THAT NEEDS TO REMAIN BUT INSTALLED IN DEMO'ED WALLS SHALL BE REROUTED AS NECESSARY TO EXISTING OR NEW WALLS.

			SHEET INDEX
ISSUE			
	2025-11-06 PERMIT SET		
	700	SHEET NUMBER	SHEET DESCRIPTION
	•	M0.00	MECHANICAL COVER SHEET
	•	M0.01	MECHANICAL SPECIFICATIONS
	•	MD2.01	MECHANICAL DEMO PLAN
	•	M2.01	MECHANICAL PLAN
		M5.00	MECHANICAL DIAGRAMS
	•	1010.00	

MECHANICAL ABBREVIATION LIST

(THIS IS A MASTER LEGEND, NOT ALL ABBREVIATIONS MAY APPEAR ON DRAWINGS.)

AABC AMERICAN AIR BALANCE COUNCIL MERV MINIMUM EFFICIENCY REPORTING VALUE ACCESS DOOR MIN MINIMUM AMERICANS WITH DISABILITIES ACT MOCP MAXIMUM OVER CURRENT PROTECTION AIR FOIL AFF ABOVE FINISH FLOOR NOT APPLICABLE AFMS AIR FLOW MEASURING STATION NC NORMALLY CLOSED NEBB NATIONAL ENVIRONMENTAL BALANCING BUREAU AFUE ANNUAL FUEL UTILIZATION EFFICIENCY AHU AIR HANDLING UNIT NEC NATIONAL ELECTRICAL CODE ACCESS PANEL NFPA NATIONAL FIRE PROTECTION ASSOCIATION APD AIR PRESSURE DROP NOT IN CONTRACT ASME AMERICAN SOCIETY OF MECHANICAL ENGINEERS NORMALLY OPEN AUTO AUTOMATIC NPSHA NET POSITIVE SUCTION HEAD AVAILABLE NPSHR NET POSITIVE SUCTION HEAD REQUIRED BUILDING AUTOMATION SYSTEM OWNER FURNISHED CONTRACTOR INSTALLED BRAKE HORSE POWER BACKWARD INCLINED OPA OSHPD PRE-APPROVAL OF ANCHORAGE BMS BUILDING MANAGEMENT SYSTEM OSHPD OFFICE OF STATEWIDE HEALTH PLANNING AND

OSHPD SPECIAL SEISMIC CERTIFICATION PRE-APPROVAL DEGREES CELSIUS CBC CALIFORNIA BUILDING CODE CFH CUBIC FEET PER HOUR POUND PER CUBIC FOOT CFM CUBIC FEET PER MINUTE POLLUTION CONTROL UNIT CH CHILLER PRESSURE DROP CHWP CHILLED WATER PUMP PHASE CMC CALIFORNIA MECHANICAL CODE PARTS PER MILLION CO CARBON MONOXIDE PRESSURE REDUCING VALVE PSI POUND PER SQUARE INCH CO2 CARBON DIOXIDE COP COEFFICIENT OF PERFORMANCE PSIA POUND PER SQUARE INCH ABSOLUTE CALIFORNIA PLUMBING CODE PSIG POUND PER SQUARE INCH GAUGE COOLING TOWER PTAC PACKAGED THROUGH THE WALL AIR CONDITIONER UNIT

DEVELOPMENT

CU CONDENSING UNIT
CV CONSTANT VOLUME
CWP CONDENSER WATER PUMP

B DRY BULB TEMPERATURE

CU CONDENSING UNIT

CV CONSTANT VOLUME

REFR REFRIGERANT

RH RELATIVE HUMIDITY

RPM REVOLUTIONS PER MINUTE

RTU ROOFTOP UNIT

dB DECIBEL RTU ROOFTOP UNIT

DC DIRECT CURRENT

DDC DIRECT DIGITAL CONTROL

DDCFP DIRECT DIGITAL CONTROL FIELD PANEL

DIA (~) DIAMETER

DN DOWN

DP DIFFERENTIAL PRESSURE

DS DUCT SUMP

RTU ROOFTOP UNIT

ROOFTOP UNIT

ROOFTOP UNIT

SER SEASONAL ENERGY EFFICIENCY RATIO

SEF SMOKE EXHAUST FAN

SF SUPPLY FAN

SH STATIC HEAD

SP STATIC PRESSURE

DUCT SUMP
DIRECT EXPANSION
SQ FT
SQUARE FEET

EXISTING
ENTERING AIR TEMPERATURE
EVAPORATIVE COOLER
EVAPORATIVE COOLER
TD
TEMPERATURE DIFFERENCE
ENTERING SERVER SUMMER SUMER SUMMER SUMMER SUMMER SUMMER SUMMER SUMM

EER ENERGY EFFICIENCY RATIO TOTAL DEVELOPED HEAD
EF EXHAUST FAN TEL TOTAL EQUIVALENT LENGTH
EFF EFFICIENCY TF TRANSFER FAN
EMCS ENERGY MANAGEMENT CONTROL SYSTEM TSP TOTAL STATIC PRESSURE
ESP EXTERNAL STATIC PRESSURE TYP TYPICAL
ET EXPANSION TANK
EWT ENTERING WATER TEMPERATURE UH UNIT HEATER

DEGREES FAHRENHEIT UNO UNLESS NOTED OTHERWISE
FAN COIL UNIT UPC UNIFORM PLUMBING CODE
FULL LOAD AMPS UV ULTRA VIOLET
FLOW METER
FEET PER MINUTE V VOLT

FEET PER SECOND

FEET

VAV

VARIABLE AIR VOLUME

VD

VOLUME DAMPER (MANUAL)

VEL

VELOCITY

GAUGE

GALLONS

GALVANIZED BIRD SCREEN

GALLONS

GALLONS

GALLONS

WATT, WIDTH

GALLONS PER HOUR

WB

WET BULB TEMPERATURE

WET BULB TEMPERATURE GALLONS PER MINUTE WATER COLUMN WATER GAUGE HEIGHT WIRE MESH SCREEN HEAD WP WATER PRESSURE HAND OFF AUTO WPD WATER PRESSURE DROP WSHP WATER SOURCE HEAT PUMP HORSE POWER WT HOUR WEIGHT

IBC INTERNATIONAL BUILDING CODE
IFC INTERNATIONAL FIRE CODE
IH INTAKE HOOD

HOT WATER PUMP

HERTZ

HEAT EXCHANGER

BTU BRITISH THERMAL UNIT

IH INTAKE HOOD
IMC INTERNATIONAL MECHANICAL CODE
IN INCH

IPC INTERNATIONAL PLUMBING CODE

KW KILOWATT

L LENGTH
LAT LEAVING AIR TEMPERATURE
LBS POUNDS
LWT LEAVING WATER TEMPERATURE

MAT MIXED AIR TEMPERATURE
MAX MAXIMUM
MBH 1000 BRITISH THERMAL UNITS PER HOUR
MCA MINIMUM CIRCUIT AMPS

MOTOR CONTROL CENTER

CONSULTANT 5155 W Patrick Lane Las Vegas, NV 89118 T. 702-362-9200

PROJECT NAME



Tenant Improvement 111 W. Front Street Elko, Nevada

ECHANICAL COVER SHEET

REVISIONS

11.06.202

SHEET NUMBER

M0.00

MECHANICAL SPECIFICATIONS

PART 1 - GENERAL

1 CONDITIONS

A. GENERAL CONDITIONS, SUPPLEMENTARY CONDITIONS, SPECIAL CONDITIONS, AND OTHER RELATED PORTIONS OF DIVISION 1, APPLY TO THIS SECTION.

SUMMARY OF WORK

- A. THE WORK INCLUDED CONSISTS OF FURNISHING LABOR, MATERIALS AND EQUIPMENT FOR THE INSTALLATION AND PLACING INTO OPERATION A COMPLETE AND OPERABLE HEATING, VENTILATING AND AIR CONDITIONING SYSTEM AS SPECIFIED AND SHOWN, INCLUDING, BUT NOT LIMITED TO: HVAC UNITS, FANS, DUCTWORK, AIR DEVICES, PIPING, CONTROLS AND ACCESSORIES, EXCEPT AS OTHERWISE NOTED.
- REGULATIONS, CODES, PERMITS AND INSPECTIONS
- A. COMPLY WITH NATIONAL, STATE, COUNTY, AND CITY CODES, ORDINANCES, ETC., HAVING JURISDICTION, INCLUDING RULES AND REQUIREMENTS OF UTILITY SERVING AGENCIES.
- INCORPORATE CODES, ORDINANCES, ETC., INTO THE BASE BID AND INSTALLATION OF WORK. NO ADDITIONAL FUNDS WILL BE ALLOCATED FOR WORK REQUIRED TO CONFORM TO REGULATIONS AND REQUIREMENTS AND/OR TO OBTAIN APPROVAL OF WORK.
- OBTAIN AND PAY FOR REQUIRED PERMITS AND LICENSES. WHEN REQUIRED BY CODE, WORK MUST BE INSPECTED AND APPROVED BY LOCAL AUTHORITIES. PRIOR TO FINAL APPROVAL, FURNISH ARCHITECT WITH CERTIFICATES OF INSPECTION AND APPROVALS BY LOCAL AUTHORITIES.
- IN ADDITION, THE LATEST EDITION OF THE FOLLOWING PUBLISHED STANDARDS SHALL BE ADHERED TO:
- 1. INTERNATIONAL BUILDING CODE WITH AMENDMENTS: CURRENT ADOPTED VERSION.
- 2. UNIFORM MECHANICAL CODE WITH AMENDMENTS: CURRENT ADOPTED VERSION. NFPA STANDARDS
- ASHRAE GUIDES.
- SMACNA DUCT CONSTRUCTION STANDARDS.
- 6. UNIFORM PLUMBING CODE WITH AMENDMENTS: CURRENT ADOPTED VERSION.
- 7. NATIONAL ELECTRIC CODE WITH AMENDMENTS: CURRENT ADOPTED VERSION 8. INTERNATIONAL ENERGY CONSERVATION CODE WITH AMENDMENTS: CURRENT ADOPTED

DESIGN DRAWINGS

- A. DESIGN DRAWINGS ARE DIAGRAMMATIC AND ARE INTENDED ONLY TO DEFINE THE BASIC FUNCTIONS REQUIRED. PROVIDE LABOR, MATERIAL, ETC., NECESSARY TO ACCOMPLISH THESE REQUIREMENTS. MINOR DEVIATIONS FROM THE DESIGN LAYOUT ARE ANTICIPATED AND SHALL BE CONSIDERED A PART OF THE WORK INCLUDED; HOWEVER, NO CHANGES THAT ALTER THE CHARACTER OF THE WORK WILL BE PERMITTED. DO NOT SCALE THE DESIGN DRAWINGS. SEE ARCHITECTURAL DRAWINGS FOR DIMENSIONS.
- IF A CONFLICT OCCURS BETWEEN THE DESIGN DRAWINGS AND SPECIFICATIONS, PROMPTLY NOTIFY THE ARCHITECT AND/OR ENGINEER. AT THAT POINT, AN INTERPRETATION WILL BE MADE BY THE ARCHITECT AND/OR ENGINEER AND SAID DECISION SHALL BE CONSIDERED PART OF THE CONTRACT DOCUMENTS.

5 QUALIFICATIONS OF WORKMEN

A. USE SUFFICIENT JOURNEYMEN, CRAFTSMEN AND SUPERVISORS TO ENSURE PROMPT, PROPER, AND SAFE EXECUTION OF THE WORK.

- A. BASE BID SHALL INCLUDE MATERIALS AND EQUIPMENT SPECIFIED OR SCHEDULED ON THE DRAWINGS. REQUESTS FOR SUBSTITUTION OF MATERIALS AND EQUIPMENT SHALL BE BY ADDITIVE OR DEDUCTIVE ALTERNATE BID ONLY, WITH THE FOLLOWING DATA CLEARLY WRITTEN AT THE BEGINNING OF THE ALTERNATE PROPOSAL:
- ADDITIVE OR DEDUCTIVE AMOUNT CLEARLY WRITTEN IN WORDS AND NUMERALS. 2. INCREASED OR REDUCED CONSTRUCTION TIME IN DAYS.
- 3. OTHER DEMONSTRABLE BENEFIT, FOR WHICH THE SUBSTITUTION OF SUCH ITEM WILL BE IN
- ONLY THOSE MATERIALS AND EQUIPMENT WHICH ARE SUBMITTED AS AN ALTERNATE BID AND WHICH ARE ACCOMPANIED BY THE SUPPORTING DATA INDICATED BELOW WILL BE REVIEWED AND CONSIDEREL

SUBSTITUTIONS

- A. SUBSTITUTE MATERIALS AND EQUIPMENT FROM THE MANUFACTURERS LISTED WILL BE CONSIDERED. PRIOR TO PROPOSING ANY SUBSTITUTE ITEM, CONTRACTOR SHALL SATISFY HIMSELF THAT THE ITEM PROPOSED IS, IN FACT, EQUAL TO THAT SPECIFIED, THAT SUCH ITEM WILL FIT INTO THE SPACE ALLOCATED. THAT SUCH ITEM AFFORDS COMPARABLE EASE OF OPERATION. MAINTENANCE AND SERVICE, THAT THE APPEARANCE, LONGEVITY, CAPACITY AND SUITABILITY ARE COMPARABLE, AND THAT BY REASON OF COST SAVINGS, REDUCED CONSTRUCTION TIME, OR SIMILAR DEMONSTRABLE BENEFIT, THE SUBSTITUTION OF SUCH ITEM WILL BE IN THE OWNER'S 2.4 ROOF SUPPORTS
- THE BURDEN OF PROOF OF EQUALITY OF A PROPOSED SUBSTITUTION FOR A SPECIFIED ITEM SHALL BE UPON THE CONTRACTOR. CONTRACTOR SHALL SUPPORT ITS REQUEST WITH SUFFICIENT TEST DATA AND OTHER MEANS TO PERMIT THE ENGINEER TO MAKE A FAIR AND EQUITABLE DECISION ON THE MERITS OF THE PROPOSED SUBSTITUTION. INSUFFICIENT SUBMITTAL DATA WILL RESULT IN REJECTION OF THE PROPOSED SUBSTITUTION. ANY ITEM BY A MANUFACTURER OTHER THAN THOSE SPECIFIED, OR OF BRAND NAME OR MODEL NUMBER, OR OF GENERIC SPECIES OTHER THAN THOSE SPECIFIED, WILL BE CONSIDERED A SUBSTITUTION. ENGINEER WILL BE THE SOLE JUDGE OF WHETHER OR NOT THE SUBSTITUTION IS EQUAL IN QUALITY, UTILITY AND ECONOMY TO THAT SPECIFIED.
- APPROVAL OF A SUBSTITUTION SHALL NOT RELIEVE CONTRACTOR FROM RESPONSIBILITY FOR COMPLIANCE WITH ALL REQUIREMENTS OF THE CONTRACT. CONTRACTOR SHALL BEAR THE EXPENSE FOR ANY CHANGES IN OTHER PARTS OF THIS WORK OR OTHER WORK CAUSED BY THE PROPOSED SUBSTITUTION.

SUBMITTALS

A. SHOP DRAWINGS:

- 1. PRIOR TO FABRICATION OR DELIVERY OF ANY MATERIAL AND/OR EQUIPMENT TO THE JOBSITE, SUBMIT ELECTRONIC INDEXED FILE OF A BROCHURE COMPLETELY DESCRIBING EACH MAJOR SYSTEM, MATERIAL AND EQUIPMENT PROPOSED TO BE USED. ANY PIECE OF EQUIPMENT PLACED ON THE JOB WITHOUT PRIOR APPROVAL WILL BE SUBJECT TO REMOVAL.
- 2. SUBMITTAL IS FOR INFORMATION AND COORDINATION ONLY. REVIEW OF MATERIAL AND/OR EQUIPMENT SUBMITTALS SHALL IN NO WAY RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY TO COMPLY WITH PLANS AND SPECIFICATION REQUIREMENTS. POINTS OF NON-COMPLIANCE WHICH ARE NOT NOTED SHALL NOT BE CONSTRUED TO BE AN APPROVAL OF THE NON-COMPLIANCE. SUBMITTALS SHALL CLEARLY STATE WHERE EQUIPMENT DOES NOT AGREE WITH THE CONTRACT DOCUMENTS.
- 3. INCLUDE DETAILED DRAWINGS WHERE REQUIRED FOR PROPER COORDINATION WITH OTHER TRADES. INDICATE EQUIPMENT LAYOUTS, ELECTRICAL CHARACTERISTICS, WIRING AND CONTROL DIAGRAMS, SIZES AND LOCATIONS OF PIPING, DUCTS, CONDUITS, AND OTHER ITEMS WHICH EFFECT THE SPACE AVAILABLE.
- 4. SUBMIT ITEMS WITHIN 15 DAYS OF AWARD OF CONTRACT. SUBMITTALS SHALL INCLUDE MANUFACTURER'S SPECIFICATIONS, PHYSICAL DIMENSIONS, WEIGHTS AND RATINGS OF EQUIPMENT SUBMITTED. SUBMITTALS SHALL BE INDEXED AND SECURELY BOUND IN A SUITABLE MANNER.
- 5. SUBMIT THE FOLLOWING ITEMS FOR APPROVAL:
- a. AIR CONDITIONING UNITS WITH ASSOCIATED FAN CURVES; FANS WITH ASSOCIATED FAN CURVES;
- c. CONTROLS;
- d. AIR DEVICES, LOUVERS, DAMPERS AND ACCESS DOORS;
- e. INSULATION;
- f. PIPING, VALVES, FITTINGS, ETC.

SUBSTITUTION OF A FACTORY MADE (FLEXIBLE DUCT) DISTRIBUTION SYSTEM WILL NOT BE ACCEPTED.

B. RECORD DRAWINGS: MAINTAIN ACCURATE RECORDS OF ANY CHANGES FROM THE CONTRACT DOCUMENTS AND SHOP DRAWINGS. UPON COMPLETION OF THE PROJECT, DELIVER TO THE OWNER ONE (1) SET OF LEGIBLE AND REPRODUCIBLE COPIES OF THESE RECORD DRAWINGS.

C. GUARANTEE:

UPON COMPLETION OF THE PROJECT, DELIVER TO THE OWNER A THREE (3) YEAR GUARANTEE OF THE SYSTEMS, MATERIALS AND WORK PERFORMED. GUARANTEE THE ENTIRE COST, INCLUDING MATERIALS AND/OR LABOR, OF CORRECTIVE WORK REQUIRED AND NECESSITATED BY DEFECTS IN MATERIALS AND/OR WORKMANSHIP.

D. MANUAL AND OPERATING INSTRUCTIONS:

APPEARING ON THE DRAWINGS.

- UPON THE COMPLETION OF THE PROJECT, DELIVER TO THE OWNER A HARD BOUND "OWNER'S MANUAL". INCLUDE IN THE MANUAL INSTRUCTIONS PREPARED SPECIFICALLY FOR THE SYSTEMS PROVIDED, ALONG WITH PAPERS, DESCRIPTIONS, PARTS LISTS, INSTRUCTIONS, WARRANTIES, ETC., WHICH WERE DELIVERED WITH THE MATERIALS AND EQUIPMENT UTILIZED IN THE PROJECT. IDENTIFY EACH ITEM BY THE DESIGNATION
- AT A TIME DESIGNATED, PROVIDE A SUITABLE OPERATOR, MECHANIC OR ENGINEER TO REVIEW THE SYSTEMS WITH OWNER'S REPRESENTATIVE TO THOROUGHLY FAMILIARIZE HIM WITH THE OPERATIONS AND MAINTENANCE OF THE SYSTEMS.

PART 2 - PRODUCTS

2.1 GENERAL PRODUCTS

A. SEISMIC RESTRAINTS:

- ATTACHMENTS FOR DUCTWORK, PIPING, AND EQUIPMENT SUPPORTED BY THE BUILDING STRUCTURE SHALL BE DESIGNED TO RESIST SEISMIC FORCES PRESCRIBED IN THE IBC FOR THE APPROPRIATE SEISMIC ZONE
- WHERE REQUIRED BY THE BUILDING OFFICIAL, PROVIDE STRUCTURAL CALCULATIONS SEALED AND SIGNED BY A LICENSED STRUCTURAL ENGINEER.
- FURNISH AND INSTALL NEW PRODUCTS OF ESTABLISHED AND REPUTABLE MANUFACTURERS; SEE LIST OF ACCEPTABLE MANUFACTURERS ELSEWHERE IN THIS SPECIFICATION. ITEMS OF EQUIPMENT USED FOR SIMILAR PURPOSE SHALL BE OF THE SAME MANUFACTURER. MAKE NO EQUIPMENT SUBSTITUTIONS THAT WOULD LEAVE INADEQUATE OPERATING AND/OR SERVICING
- C. ACCESSORIES REQUIRED FOR PROPER OPERATION OF THE SYSTEMS, EVEN THOUGH NOT SPECIFICALLY INDICATED, SHALL BE INCLUDED AND INSTALLED. SUCH ACCESSORIES MAY INCLUDE, BUT ARE NOT LIMITED TO, FILTERS, CONDENSATE DRAINS, RELIEF VALVES, SERVICE VALVES, THERMOSTATS, VIBRATION ISOLATORS, ETC. MOTOR STARTERS FOR PREWIRED EQUIPMENT AND OTHER PROTECTION AND CONTROL DEVICES ARE INCLUDED IN THIS SPECIFICATION. STARTERS FOR NON-PREWIRED EQUIPMENT, I.E., FANS, PUMPS, ETC., ARE SPECIFIED IN DIVISION 16.
- SPECIFIC REFERENCE TO A MANUFACTURER'S PRODUCT IS ONLY TO ESTABLISH TYPE, QUALITY, AND PERFORMANCE REQUIRED. THESE QUALIFICATIONS ARE IN ADDITION TO THE REQUIREMENTS SHOWN ON THE PLANS AND ELSEWHERE IN THESE SPECIFICATIONS. LISTING OF ALTERNATE EQUIPMENT MANUFACTURERS SHALL NOT BE CONSTRUED AS AN UNCONDITIONAL APPROVAL OF THE PRODUCTS OF THOSE MANUFACTURERS.

2.2 PACKAGED ROOF TOP UNIT: ELECTRIC COOL/GAS HEAT

- A. FURNISH AND INSTALL COMBINATION PACKAGED ELECTRIC COOL/GAS HEAT UNITS WITH CAPACITIES AS SCHEDULED. UNIT SHALL BE COMPLETE WITH HERMETICALLY SEALED COMPRESSOR WITH HIGH AND LOW PRESSURE CUT-OFFS, COILS, HEATING SECTION, BLOWERS ,NECESSARY REFRIGERANT PIPING, INSULATED COMPRESSOR COMPARTMENT, AIR COOLED CONDENSER, CONDENSER BLOWER OR FAN, AUTOMATIC CONTROLS, CONTROL PANEL WITH STARTERS, RELAYS, ETC. FOR SINGLE POINT POWER CONNECTION, WITHIN A WEATHERPROOF, INSULATED DECORATIVE CASING. UNITS SHALL BE FURNISHED WITH FILTERS AS SCHEDULED.
- B. UNITS SHALL BE COMPLETELY FACTORY WIRED FOR TERMINAL CONNECTIONS OF THERMOSTAT WITH A FAN-AUTO/MANUAL SWITCH AND A SYSTEM HEAT/OFF/COOL/AUTO SWITCH. UNITS SHALL BE INSTALLED IN STRICT ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS, COMPLETE WITH MANUAL OUTSIDE AIR DAMPER ROOF CURB AND NECESSARY ACCESSORIES FOR EFFICIENT
- C. SEQUENCE OF OPERATION: OPERATION OF EQUIPMENT SHALL BE BY FACTORY CONTROLS SEQUENCE. THERMOSTAT IN EACH AREA SHALL REGULATE TEMPERATURE OF THE ROOF TOP UNIT IN THAT AREA.

2.3 AIR DISTIBUTION DEVICES

- A. DEVICES SHALL BE PROVIDED AS SCHEDULED.
- MOUNTING SHALL BE AS SCHEDULED a. ALL MOUNTING IN GYP-BOARD SHALL BE BY CONCEALED MOUNTING.

A. EQUIPMENT FURNISHED WITHOUT A COMPATIBLE ROOF CURB. AND WHICH IS TO BE MOUNTED ON ROOF, SHALL BE SUPPORTED ON EQUIPMENT RAILS EQUAL TO RPS MOUNTING PEDESTAL, THYCURB OR PATE CUSTOM SUPPORT. SUBMIT MANUFACTURER'S METHOD OF ATTACHMENT TO THE BUILDING STRUCTURE TO THE STRUCTURAL ENGINEER FOR APPROVAL. SUBMIT MANUFACTURER'S DATA WITH THE STRUCTURAL ENGINEER'S APPROVAL TO THE ARCHITECT BEFORE INSTALLATION.

- A. PROVIDE A COMPLETE SYSTEM OF DUCTWORK FABRICATED AND INSTALLED IN STRICT ACCORDANCE WITH THE ASHRAE GUIDES AND WITH THE SMACNA DUCT CONSTRUCTION STANDARDS. DUCT SYSTEM SHALL BE CONSTRUCTED AS SHOWN ON THE DRAWINGS. CHANGES IN DUCT ARRANGEMENT OR IN DUCT SIZES SHALL BE MADE ONLY AFTER WRITTEN APPROVAL IS OBTAINED FROM THE ENGINEER.
- B. TRUNK AND BRANCH DUCTS SHALL BE RECTANGULAR OR ROUND AND SHALL BE CONSTRUCTED OF PAINT VISIBLE PORTION OF DUCTWORK BEHIND AIR OUTLETS AND INLETS MATTE BLACK. GALVANIZED SHEET METAL FREE OF DEFECTS SUCH AS DENTING AND DISCOLORIZATION. DUCT 3.4 AUTOMATIC TEMPERATURE CONTROLS SIZES SHOWN ON THE DRAWINGS ARE NET OPENINGS AND SHALL BE INCREASED TO ACCOMMODATE DUCT LINING WHERE APPLICABLE.
- C. FLEXIBLE DUCT CONNECTORS SHALL BE A FACTORY FABRICATED ASSEMBLY CONSISTING OF AN INNER SLEEVE, 1-INCH THICK FIBERGLASS INSULATION, AND AN OUTER VAPOR BARRIER COVERING EQUAL TO THERMAFLEX M-KE. FLEXIBLE DUCT CONNECTORS SHALL BE A MAXIMUM OF SIX FEET IN
- D. PROVIDE MANUAL VOLUME DAMPERS IN EACH RUNOUT TO EACH DIFFUSER, AND ALSO AS REQUIRED FOR PROPER SYSTEM BALANCING.
- E. VOLUME DAMPERS SHALL BE CONSTRUCTED OF 16 GAUGE GALVANIZED STEEL, BE OF THE OPPOSED BLADE TYPE AND BE FURNISHED WITH LOCKING AND INDICATING QUADRANTS. DAMPERS FOR ROUND DUCTS SHALL BE SINGLE-BLADE TYPE.
- F. ROUND TAPS FOR FACTORY-MADE AIR DUCTS IN SECTIONS OF ROUND SHEET METAL DUCTS SHALL BE MADE WITH ANY OF THE FITTINGS LISTED BELOW.
 - CONICAL TEE.
 - 2. CONICAL SADDLE TAP. ELBOW (IF LAST FITTING).
- G. ROUND TAPS FOR FACTORY-MADE AIR DUCTS IN SECTIONS OF RECTANGULAR SHEET METAL DUCTS SHALL BE MADE WITH ANY OF THE FITTINGS LISTED BELOW.
- COLLAR (SPIN-IN, FLARED). COLLAR (SPIN-IN, STRAIGHT).
- H. DOVETAILED CUTOFFS ARE NOT ACCEPTABLE AS TAP FITTINGS UNLESS SECURED WITH SHEET METAL SCREWS AND SEALED WITH FIBROUS GLASS MESH, GAUZE, OR CANVAS AND SEALING COMPOUNDS. DUCT TAPE OR OTHER PRESSURE SENSITIVE TAPES ARE NOT ACCEPTABLE.
- TAPS IN SECTIONS OF ROUND FACTORY-MADE AIR DUCTS SHALL BE MADE BY INSERTING, IN THE FLEXIBLE DUCT SECTION, ANY OF THE SHEET METAL FITTINGS LISTED BELOW.
- 90 DEGREE STRAIGHT TEE. 2. 45 DEGREE STRAIGHT LATERAL.
- 3. 45 DEGREE STRAIGHT LATERAL WITH 45 DEGREE ELBOW.
- 4. 45 DEGREE STRAIGHT LATERAL CROSS Y BRANCH WITH 45 DEGREE ELBOW.

2.6 DUCT INSULATION

A. THERMAL INSULATION:

- CONCEALED SUPPLY DUCTS AND RETURN DUCTS ABOVE CEILING OR IN FURRED SPACES
- SHALL BE THERMALLY INSULATED. THERMAL INSULATION SHALL BE FLEXIBLE BLANKET GLASS FIBER INSULATION WITH FACTORY APPLIED, FLAME RETARDANT, FOIL-SCRIM-KRAFT VAPOR BARRIER (FSK), MAXIMUM K OF 0.30 AT 75 DEGREES F MEAN TEMPERATURE, MINIMUM .75 POUND DENSITY. INSULATION SHALL BE 2" THICK. THERMAL INSULATION SHALL BE WEATHER-PROOF TYPE WHERE REQUIRED. a. R-6 MINIMUM INTERIOR
- b. R-8 MINIMUM EXTERIOR
- INSULATION SHALL BE APPLIED OVER SURFACES WHICH HAVE BEEN WIPED CLEAN AND DRY AND SHALL HAVE 2-INCH MINIMUM TAPE OVERLAP ON BOTH LONGITUDINAL AND TRANSVERSE SEAMS. EDGES OF INSULATION SHALL BE FIRMLY BUTTED TOGETHER.
- 25/50 FLAME AND SMOKE SPREAD COMPLIANT.

2.7 LIST OF ACCEPTABLE MANUFACTURERS

- FOLLOWING IS A LIST OF MANUFACTURERS WHOSE EQUIPMENT IS ACCEPTABLE AS TO MANUFACTURE, SUBJECT TO CONFORMANCE WITH THE DRAWINGS AND SPECIFICATIONS. CAREFUL CHECKING MUST BE MADE TO VERIFY THAT EQUIPMENT WILL MEET CAPACITIES. REQUIREMENTS, AND SPACE AND WEIGHT ALLOCATIONS.
- 1. HVAC PACKAGED EQUIPMENT: LENNOX, AMERICAN STANDARD, CARRIER, DAIKIN,
- 2. FANS: COOK, PENN, CARNES, BROAN, GREENHECK.
- TEMPERATURE CONTROLS: HONEYWELL, JOHNSON, BARBER-COLMAN. 4. AIR DEVICES: TITUS, METALAIRE, KRUEGER, CARNES.
- 5. INSULATION: CERTAINTEED, OWENS-CORNING, MANVILLE, KNAUF. 6. VIBRATION ISOLATION: MASON INDUSTRIES, VIBREX, KORFUND, VIBRATION MOUNTINGS, INC.. 3.5 TESTING AND BALANCING
- AMBER-BOOTH. 7. STARTERS, RELAYS, ETC.: SQUARE D, GENERAL ELECTRIC, WESTINGHOUSE,
- CUTI FR-HAMMER

8. DUCT TURNS: TUTTLE & BAILEY, DURO DYNE, BARBER-COLMAN. III.

- A. INSTALL MATERIALS AND EQUIPMENT IN AN ARRANGEMENT THAT WILL GIVE THE GREATEST PRACTICAL EASE OF OPERATION AND SERVICE TO THE OWNER.
- B. INSTALL EQUIPMENT IN ACCORDANCE WITH MANUFACTURERS RECOMMENDED INSTALLATION PROCEDURES.

BE NO VIBRATION AND/OR RATTLING WHEN THE SYSTEM IS IN OPERATION.

- C. PERFORM WORK IN ACCORDANCE WITH THE BEST TRADE PRACTICES. INSTALL MATERIALS AND EQUIPMENT SQUARELY WITH THE BUILDING LINES. PROVIDE RIGID PERMANENT BASES AND SUPPORTS FOR WORK. CONSTRUCT AND BRACE EQUIPMENT, PIPING, ETC., SO THAT THERE WILL
- D. COVER AND PROTECT EQUIPMENT AND MATERIALS FROM WEATHER, THEFT, ETC., UNTIL DATE OF COMPLETION. PLUG AND/OR CAP OPEN ENDS OF INSTALLED PIPING AND/OR DUCTWORK PENDING EXTENSION OR FINAL CONNECTION.

3.2 DUCTWORK

- A. CONSTRUCT DUCTWORK WITH MATERIAL, GAUGES, JOINTS, BRACING AND SUPPORTS IN ACCORDANCE WITH APPLICABLE RECOMMENDATIONS OF ASHRAE AND SMACNA, WITH ADDITIONAL BRACING AS REQUIRED.
- B. DUCTWORK SHALL BE RIGIDLY CONSTRUCTED AND SUBSTANTIALLY AIR-TIGHT. SUBSTANTIALLY AIR-TIGHT SHALL BE CONSTRUED TO MEAN THAT NO AIR LEAKAGE IS NOTICEABLE THROUGH THE SENSES OF FEELING OR HEARING AT DUCT JOINTS. JOINTS SHALL BE TIGHTLY FITTED WITH NO VOIDS. MINOR GAPS SHALL BE CLOSED WITH CANVAS TAPE SET INTO AND SEALED WITH BRUSH APPLIED ADHESIVE, OR WITH SILICONE CAULKING COMPOUND. DO NOT UTILIZE PRESSURE SENSITIVE TAPE.
- C. SHIP-LAP CUT JOINTS IN FIBERGLASS DUCTWORK. USE METAL REINFORCING AT CONNECTIONS. CLOSE WITH HEAT SENSITIVE TAPE, CANVAS TAPE AND ARABOL, OR "HARD-CAST".
- D. MAKE CONNECTIONS BETWEEN FLEXIBLE DUCTS AND RIGID TRUNK DUCTS WITH FACTORY FABRICATED FITTINGS WITH DAMPER AND SCOOP. WHERE "TAP-INS" SERVE SINGLE OUTLETS, AND WHERE TAP-IN DAMPER IS ACCESSIBLE, OUTLET DAMPER MAY BE OMITTED. SECURE FLEX DUCT TO FITTING WITH CLAMPS, INSTALLED TO FACTORY RECOMMENDED TENSION. INSTALL CLAMPS ON LINER AND SECOND CLAMP OVER JACKET. JOB INSPECTION MAY REQUIRE REMOVAL AND REPLACEMENT OF A RANDOM SAMPLING OF JACKET CLAMPS TO EXPOSE LINER CLAMPS.
- E. ELBOWS SHALL HAVE A THROAT RADIUS EQUAL TO DUCT WIDTH. SQUARE ELBOWS SHALL HAVE TURNING VANES. TRANSITIONS SHALL NOT EXCEED 4 TO 1 RATIO.

3.3 AIR DISTRIBUTION DEVICE INSTALLATION

- A. INSTALL DIFFUSERS TO DUCTWORK WITH AIRTIGHT CONNECTION.
- INSTALL BALANCING DAMPERS ON DUCT TAKE-OFF TO DIFFUSERS, GRILLES, AND REGISTERS, WHETHER OR NOT DAMPERS ARE FURNISHED AS PART OF DIFFUSER, GRILLE, AND REGISTER

- A. THE MECHANICAL CONTRACTOR SHALL PROVIDE A COMPLETE SYSTEM OF AUTOMATIC TEMPERATURE CONTROL, WHICH SHALL INCLUDE, BUT NOT BE LIMITED TO: 24 VOLT HEAT/OFF/COOL/AUTO, FAN-AUTO/MANUAL, AND THERMOSTAT HAVING STAGES AS REQUIRED BY CONTROLLED EQUIPMENT, TRANSFORMERS AND REQUIRED RELAYS. THERMOSTATS SHALL HAVE AUTOMATIC CHANGEOVER FROM HEATING TO COOLING AND VICE VERSA.
- B. THE ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR THE WORK SHOWN ON THE ELECTRICAL DRAWINGS AND IN THE ELECTRICAL SPECIFICATIONS. MECHANICAL CONTRACTOR SHALL COORDINATE HIS WORK WITH THE ELECTRICAL CONTRACTOR. MECHANICAL CONTRACTOR SHALL PROVIDE ELECTRICAL WIRING AND CONDUIT IN CONNECTION WITH AUTOMATIC TEMPERATURE CONTROLS. WIRING SHALL BE DONE IN ACCORDANCE WITH THE REQUIREMENTS OF THE NATIONAL ELECTRIC CODE, AND THE ELECTRICAL SECTIONS OF THE SPECIFICATION. MIXING OF AC AND DC CONDUCTORS IN THE SAME CONDUIT IS NOT ACCEPTABLE AND SHALL BE REMOVED AT THE CONTRACTOR'S EXPENSE. THE MECHANICAL CONTRACTOR SHALL INSTALL CONDUIT, JUNCTION BOXES, AND THERMOSTAT BACK BOXES AND SHALL PULL CONTROL CIRCUIT CONDUCTORS IN ACCORDANCE WITH THE NEC AND THE ELECTRICAL SECTIONS OF THE SPECIFICATION.
- C. ELECTRICAL WORK SHALL BE DONE BY LICENSED ELECTRICIANS EITHER EMPLOYED BY OR SUB-CONTRACTED TO THE MECHANICAL CONTRACTOR.
- D. SUBMIT SHOP DRAWINGS OF TEMPERATURE CONTROL WIRING, LOCATION, AND INSTALLATION

DATA FOR APPROVAL. E. GENERAL DIVISION OF RESPONSIBILITY:

- ANY DEVICE WHICH CARRIES THE FULL LOAD CURRENT OF THE ELECTRICALLY DRIVEN MACHINERY, AS OPPOSED TO THE CONTROL OR INSTRUMENTATION CURRENT IN THE HOLDING COIL, IS A POWER CIRCUIT AND IS THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR. CONTROL OR INSTRUMENTATION CIRCUITS CONNECTING HOLDING COILS TO THE AUTOMATIC TEMPERATURE CONTROL SYSTEM ARE THE RESPONSIBILITY OF THE
- MECHANICAL CONTRACTOR. 2. THE POWER CIRCUIT IS DEFINED AS ALL DEVICES NECESSARY TO OPERATE, AND AS REQUIRED BY CODE TO PROTECT AND SERVICE THE UNIT, INCLUDING BRANCH CIRCUIT PROTECTIVE DEVICES, DISCONNECTS, EITHER FUSED OR NONFUSED, MAGNETIC MOTOR STARTERS WITH RUNNING OVERLOAD AND SINGLE PHASING PROTECTION, MAGNETIC
- CONTACTORS, ETC. THE CONTROL OR INSTRUMENTATION CIRCUIT IS DEFINED AS ALL DEVICES NECESSARY TO INTERFACE THE ELECTRICAL POWER CIRCUIT WITH THE AUTOMATIC TEMPERATURE CONTROL SYSTEM INCLUDING CONDUIT, BOXES, CONDUIT FITTINGS, CONDUCTORS, ELECTRIC-PNEUMATIC SWITCHES, PNEUMATIC-ELECTRIC SWITCHES, ELECTRICAL AND
- PNEUMATIC RELAYS, PNEUMATIC TUBING, ETC. EACH SYSTEM, CONSISTING OF ONE OR MORE AIR CONDITIONING UNITS, PROVIDING HEATING AND COOLING AIR SHALL BE EQUIPPED WITH ONE IONIZATION TYPE SHUT-OFF SMOKE DETECTOR, UNLESS INDICATED OTHERWISE...
- THE SMOKE DETECTOR SHALL BE LOCATED IN THE MAIN SUPPLY-AIR DUCT AHEAD OF ANY BRANCH

ELECTRICIANS EITHER EMPLOYED BY OR SUB-CONTRACTED TO THE MECHANICAL CONTRACTOR.

- ACTIVATION OF ANY SMOKE DETECTOR SHALL CAUSE THE AIR-MOVING EQUIPMENT TO AUTOMATICALLY SHUT DOWN. WHERE A SYSTEM CONSISTS OF MORE THAN ONE AIR CONDITIONER, ACTIVATION OF ANY OF THE SMOKE DETECTORS IN ANY OF THE AIR CONDITIONERS SERVING THE COMMON AREA SHALL CAUSE ALL AIR-MOVING EQUIPMENT SERVING THAT COMMON AREA TO SHUT DOWN.
- WIRING OF THE SMOKE DETECTORS SHALL BE THE RESPONSIBILITY OF THE MECHANICAL CONTRACTOR AND SHALL BE DONE IN ACCORDANCE WITH THE REQUIREMENTS OF THE NEC AND ELECTRICAL SECTIONS OF THE SPECIFICATION. ELECTRICAL WORK SHALL BE DONE BY LICENSED
- J. SUBMIT SHOP DRAWINGS OF SMOKE DETECTOR WIRING, LOCATION AND INSTALLATION DATA FOR APPROVAL.
- K. CONNECT ALL FIRE/SMOKE DAMPERS TO FIRE CONTROL SYSTEM, AS REQUIRED BY LOCAL AUTHORITY.

- A. THE TESTS SHALL INCLUDE THOSE COMPONENTS NORMALLY INCLUDED AS A PART OF THE AIR
- DISTRIBUTION AND TRANSMISSION SYSTEM. B. A COMPLETE BALANCING REPORT SHALL BE SUBMITTED TO THE ENGINEER UPON COMPLETION. THE BALANCING REPORT SHALL INCLUDE DESIGN QUANTITIES AND ACTUAL QUANTITIES FOLLOWING BALANCING. BALANCING SHALL BE COMPLETED TO THE SATISFACTION OF THE
- FNGINFFR. C. INCLUDE IN BID, AS PART OF THE WORK IN THIS CONTRACT ANY ADJUSTMENTS IN OR REPLACEMENT OF PULLEYS, BELTS, MOTORS, DAMPERS, ETC., OR THE ADDITION OF DAMPERS AND
- ORIFICE PLATES REQUIRED FOR CORRECT BALANCING OF SYSTEMS. D. THE FOLLOWING DATA SHALL BE INCLUDED IN THE TESTING AND BALANCING REPORT FOR EACH SYSTEM AND SHALL BE SUBMITTED ON THE SMACNA FORMS INDICATED:

1. LIST TEST AND AIR BALANCE INSTRUMENTS, THE APPLICATION, THE DATE OF USE AND THE

- INSTRUMENT CALIBRATION TEST DATE, AND SUBMIT REPORT ON SMACNA FORM. 2. TEST AND RECORD CFM QUANTITIES AND SUBMIT REPORT ON SMACNA FORM FOR AIR OUTLETS/INLETS, ON SMACNA FORM FOR HVAC UNITS, AND ON SMACNA FORM FOR FANS.
- 3. TEST AND RECORD ENTERING AIR TEMPERATURES (D.B. HEATING AND COOLING) AND SUBMIT REPORT ON SMACNA FORM.
- 4. TEST AND RECORD ENTERING AIR TEMPERATURES (W.B. COOLING) AND SUBMIT REPORT ON SMACNA FORM. 5. TEST AND RECORD LEAVING AIR TEMPERATURES (D.B. HEATING AND COOLING) AND SUBMIT
- REPORT ON SMACNA FORM. 6. TEST AND RECORD LEAVING AIR TEMPERATURES (W.B. COOLING) AND SUBMIT REPORT ON

7. TEST AND RECORD SYSTEM SUCTION PRESSURE, HEAD PRESSURE, COMPRESSOR AMPS, AND

AMBIENT TEMPERATURE DURING COOLING OPERATION, AND SUBMIT REPORT ON SMACNA

TEST AND ADJUST AIR DEVICES TO WITHIN PLUS OR MINUS 5 PERCENT OF DESIGN REQUIREMENTS.

REVISIONS

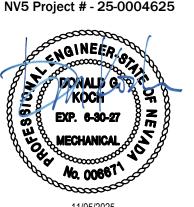
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SHEET NOTES

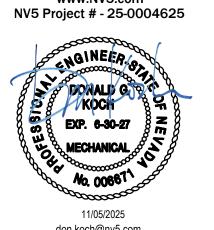
1. PRIOR TO BEGINNING WORK, THE CONTRACTOR SHALL COORDINATE LOCATION AND ROUTING OF HVAC EQUIPMENT WITH ALL OTHER

- 2. THE CONTRACTOR SHALL VERIFY LOCATION OF ALL ROOF AND WALL PENETRATIONS WITH ARCHITECT AND STRUCTURAL ENGINEER PRIOR TO BEGINNING WORK.
- CONTRACTOR SHALL VERIFY SITE CONDITIONS AND STRUCTURAL CONDITIONS PRIOR TO BEGINNING WORK.

1. EXISTING MECHANICAL EQUIPMENT TO BE REMOVED. PATCH AND SEAL ROOF AS NEEDED FOR ROOFTOP UNIT REMOVAL.

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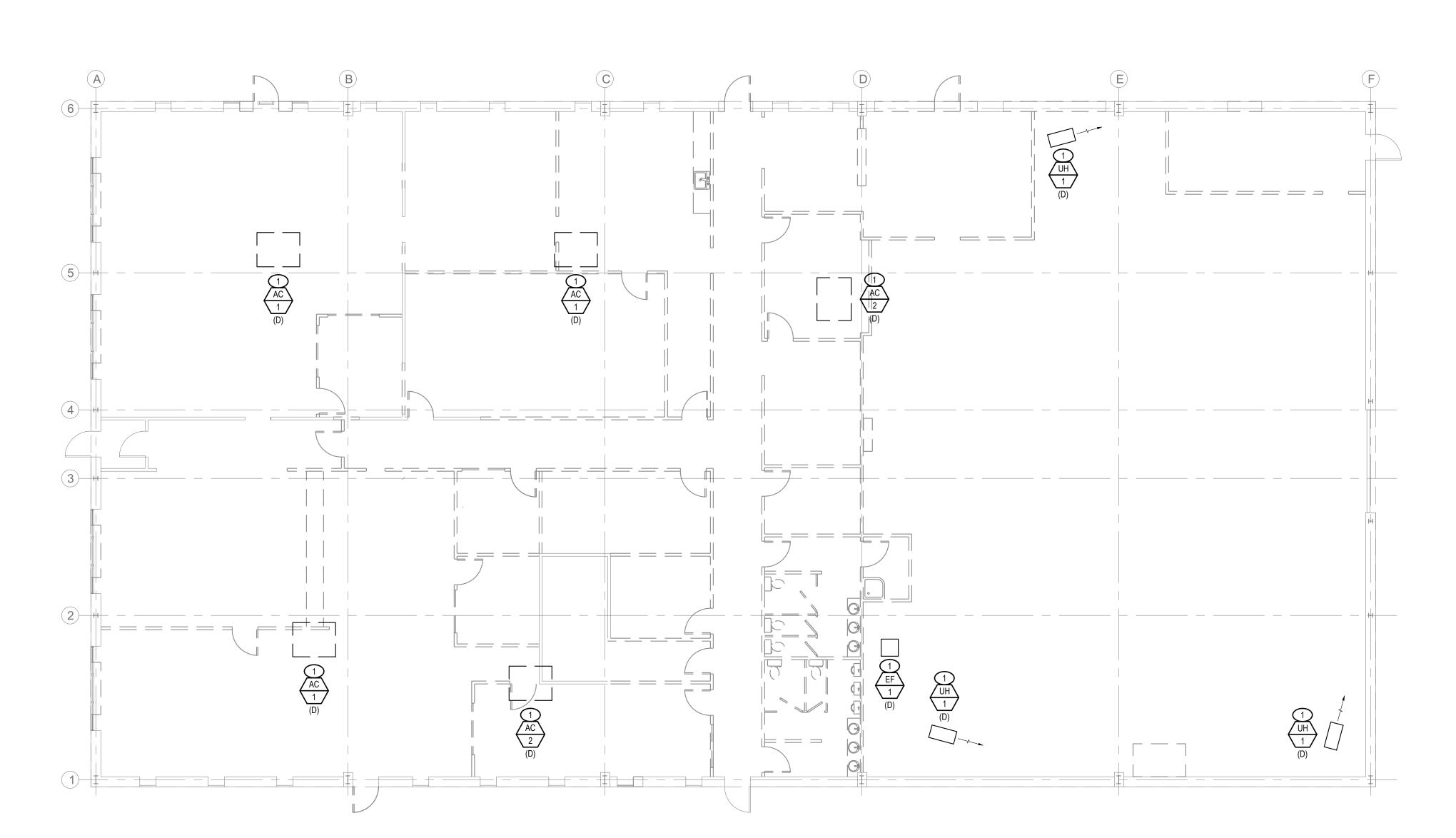
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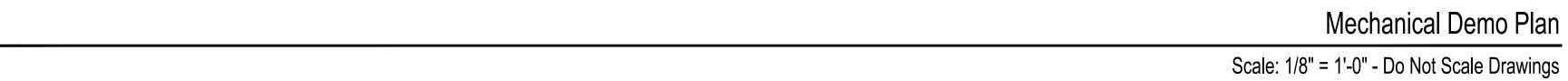
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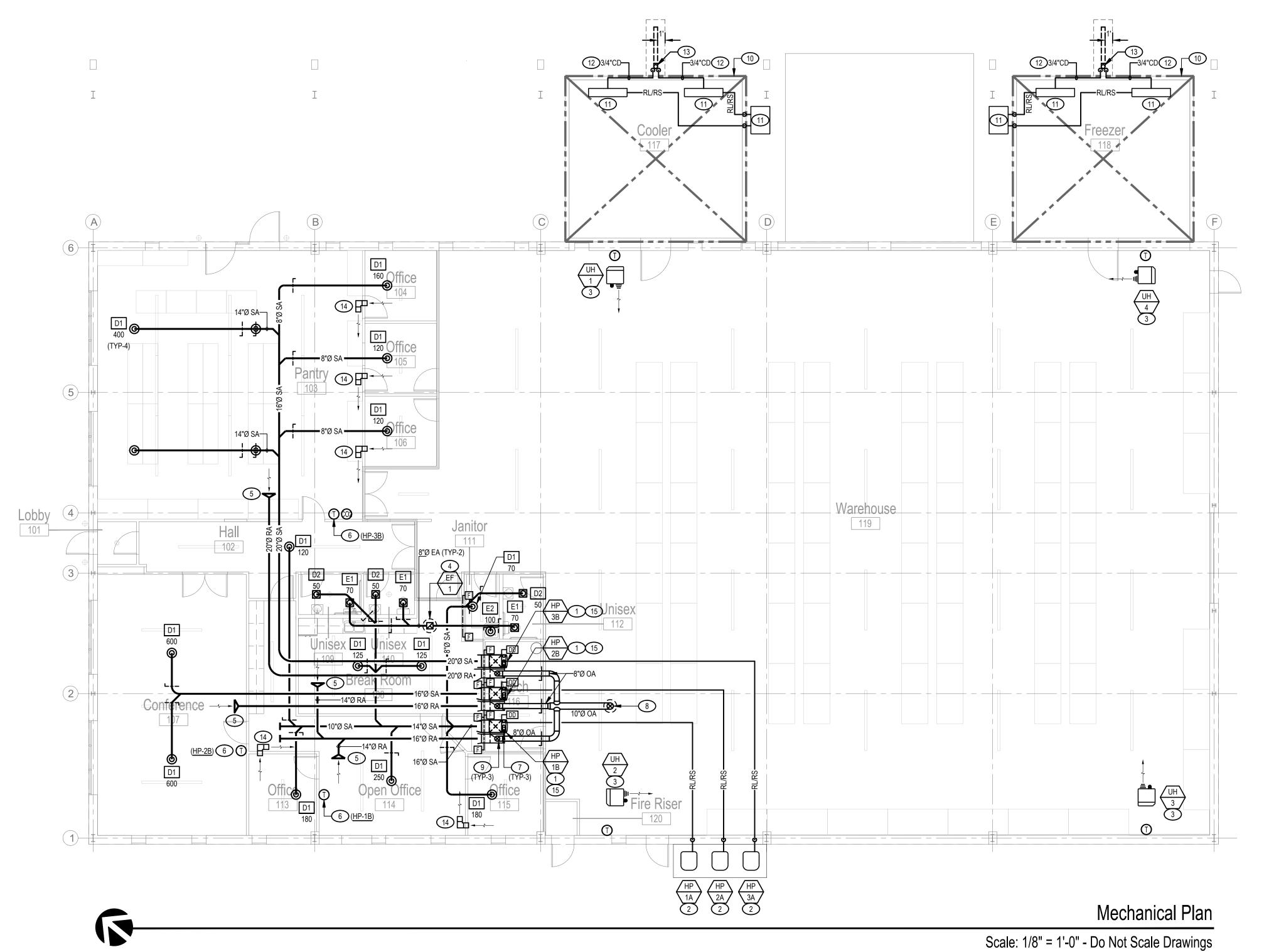
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SHEET NOTES

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- 3. CONTRACTOR SHALL VERIFY SITE CONDITIONS AND STRUCTURAL CONDITIONS PRIOR TO BEGINNING WORK.

KEY NOTES

1. INSTALL DIRECT FURNACE VENTS ON EQUIPMENT PAD PER MANUFACTURER'S RECOMMENDATIONS. PROVIDE SUPPLY AIR DUCT COOLING COILS AS SCHEDULED, DUCT SMOKE DETECTOR ON RISE, AND FIRE DAMPER THROUGH RATED WALL.

- 2. INSTALL HEAT PUMP CONDENSING UNIT ON EQUIPMENT PAD PER MANUFACTURER'S RECOMMENDATIONS. ROUTE REFRIGERANT LINES SIZED PER MANUFACTURER'S RECOMMENDATIONS TO CORRESPONDING COOLING COILS.
- 3. INSTALL GAS-FIGURED UNIT HEATER PER MANUFACTURER'S RECOMMENDATIONS AT 10' AFF. PROVIDE FLUE THROUGH ROOF. SEE PLUMBING PLANS FOR GAS CONNECTIONS.
- 4. INSTALL EXHAUST FAN ON ROOF PER MANUFACTURER'S RECOMMENDATIONS. ROUTE 10x10 EA DUCT DOWN THROUGH ROOF.
- 5. PROVIDE BELL-NOSE FITTINGS WITH BIRD SCREEN TERMINATION ON RETURN DUCT IN CEILING SPACE.
- 6. MOUNT THERMOSTAT ON WALL AT 48" AFF. CONFIRM FINAL LOCATION WITH ARCHITECT.
- 7. 4"Ø EXHAUST/INTAKE UP THROUGH ROOF. TERMINATE PER MANUFACTURER'S RECOMMENDATIONS.
- 8. 10"Ø OUTSIDE AIR DUCT UP THROUGH ROOF TO INTAKE HOOD GREENHECK #GRS-10-QD. PROVIDE 24" TALL ROOF CURB.
- 9. ROUTE 8"Ø OUTSIDE AIR DUCT TO TOP OF RETURN PLENUM ELBOW. BALANCE ASSOCIATED DAMPER TO CFM SHOWN IN VENTILATION COMPLIANCE TABLE.
- 10. WALK-IN COOLER/FREEZER BY OTHERS.
- 11. INSTALL WALK-IN BOX COMPRESSOR AND EVAPORATORS IN ACCORDANCE WITH MANUFACTURER'S GUIDELINES. EXTEND REFRIGERANT TUBING FROM THE CONDENSING UNIT TO EACH FAN COIL UNIT IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. USE TYPE ACR SOFT COPPER WITH BRAZED JOINTS. CHARGE THE SYSTEM WITH REFRIGERANT IN ACCORDANCE WITH THE MANUFACTURER'S REQUIREMENTS.
- 12. ROUTE 3/4" CONDENSATE DRAIN PIPING FROM FAN WALK-IN BOX FAN COIL TO EXTERIOR FRENCH DRAIN. PROVIDE 1" THICK UNICELLULAR INSULATION WITH PROTHERM 2700 SERIES SELF-REGULATING 120V, 5 WATTS PER FOOT SELF REGULATING HEAT TAPE FOR THE FREEZER DRAIN PIPING FROM THE DRAIN PAN TO THE TERMINATION
- 13. FRENCH DRAIN SHALL CONSIST OF 6" PVC PIPE STUBBED UP TO 6" ABOVE FINISHED GRADE. THE DRAIN SHALL EXTEND TO AN ELBOW 24" BELOW GRADE POINTED AWAY FROM BUILDING AND TERMINATING IN 5' LENGTH OF 6" PERFORATED SEWER PIPE IN A MAXIMUM OF 12" OF PEA GRAVEL ENCIRCLING PIPE. PAINT EXPOSED PVC PIPING WITH UV RESISTANT PAINT AS RECOMMENDED FOR PROTECTION OF EXPOSED PVC PIPE.
- 14. PROVIDE 8x8 RETURN AIR DUCT WITH ELBOW THROUGH FULL HEIGHT WALL. PROVIDE BIRD SCREEN TERMINATIONS ON EITHER SIDE.
- 15. PROVIDE GAS VENT FLUE + COMBINATION AIR INTAKE UP THRU ROOF PER MANUFACTURER'S RECOMMENDATIONS.

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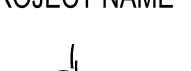
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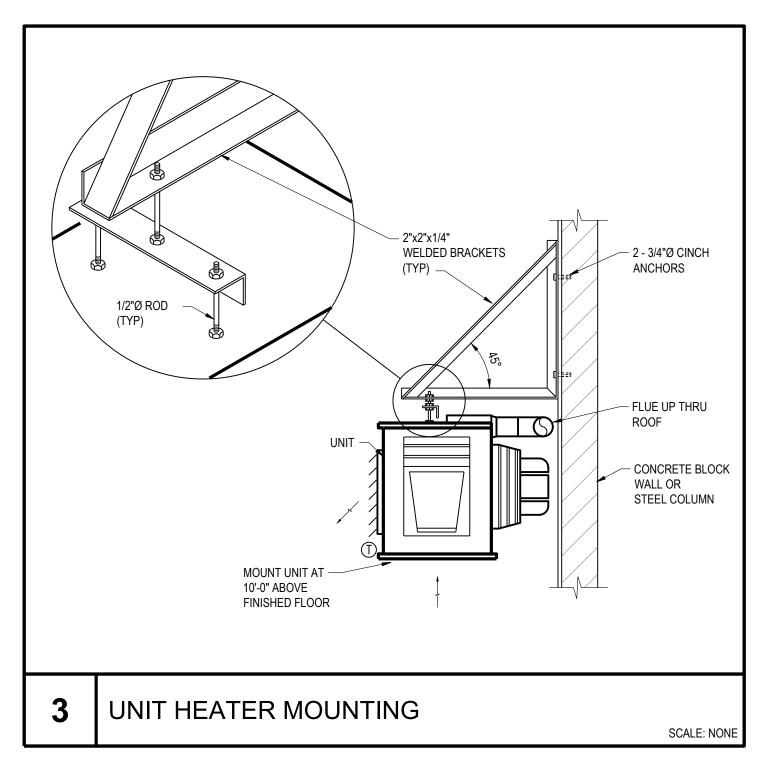
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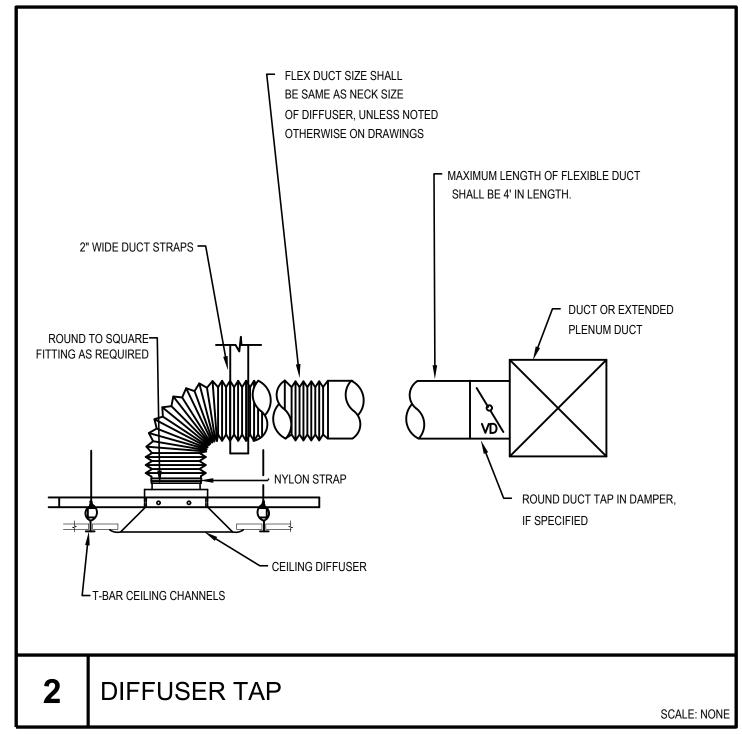
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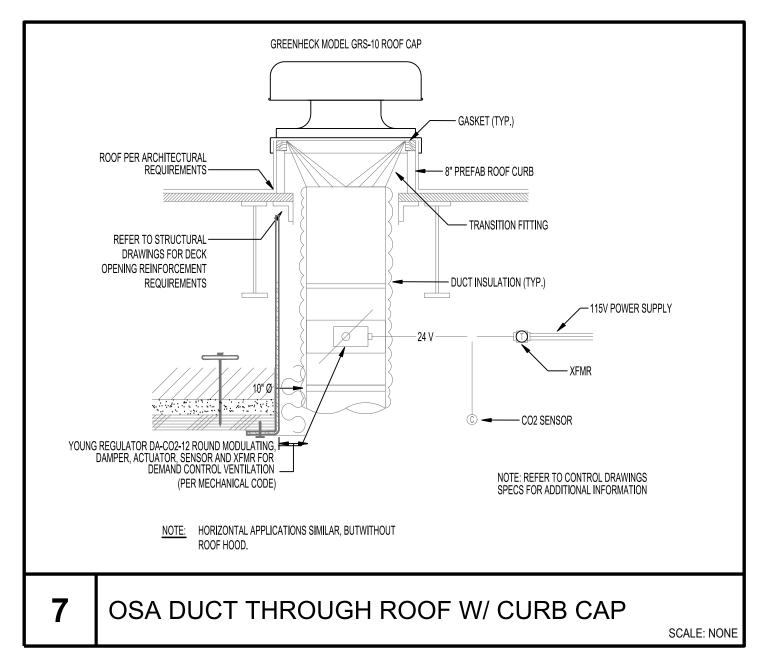
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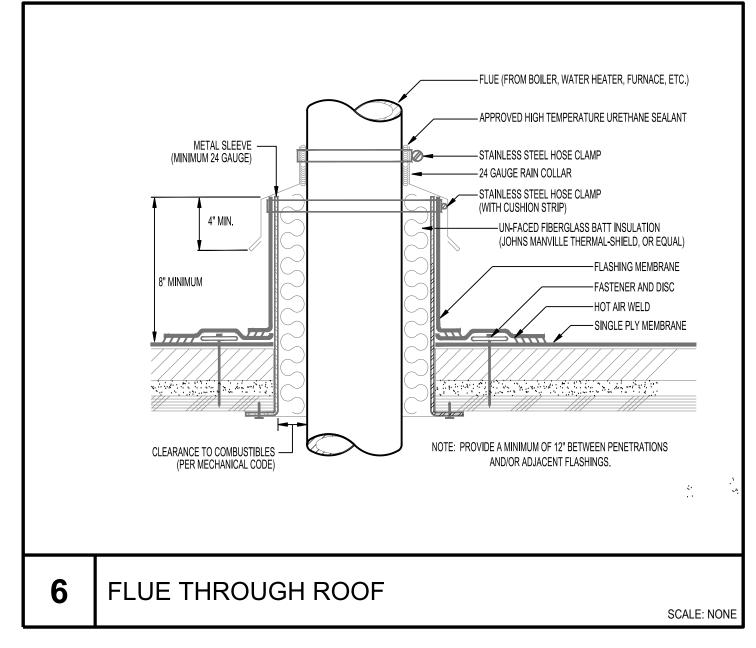
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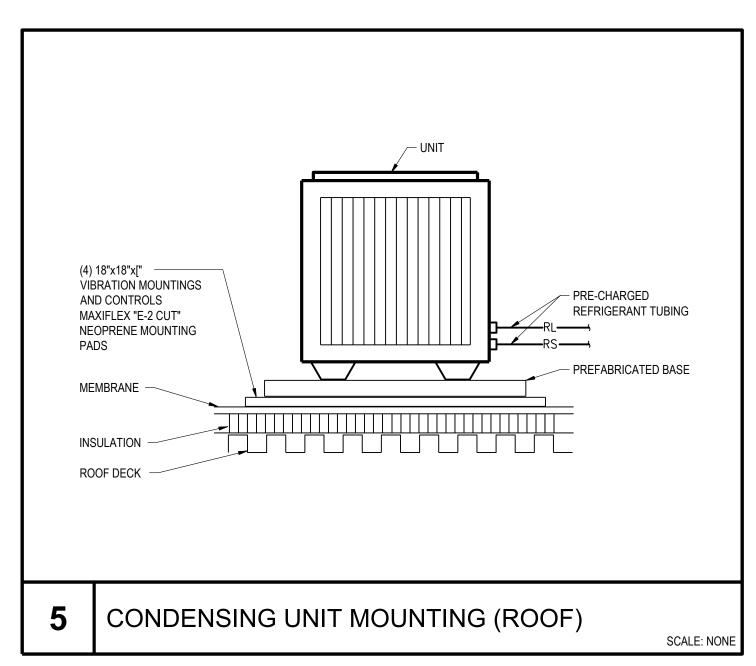


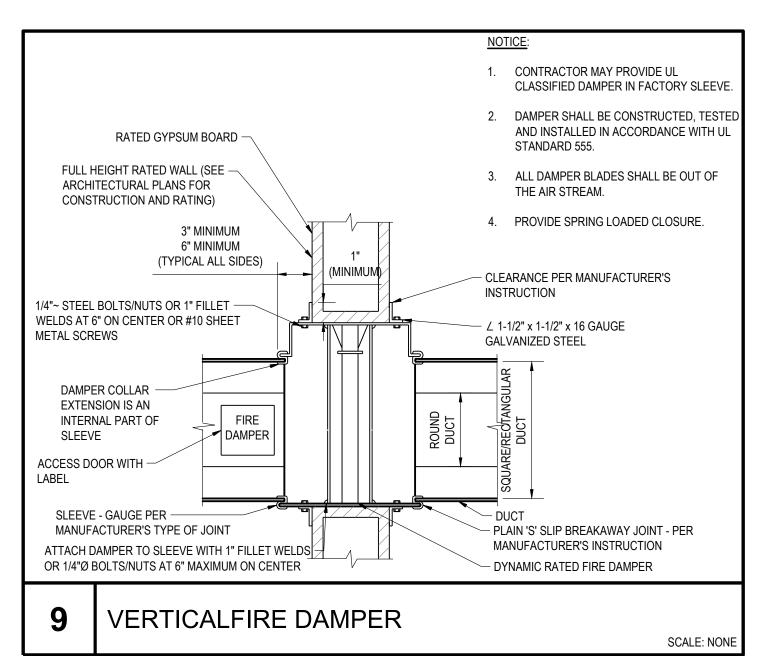


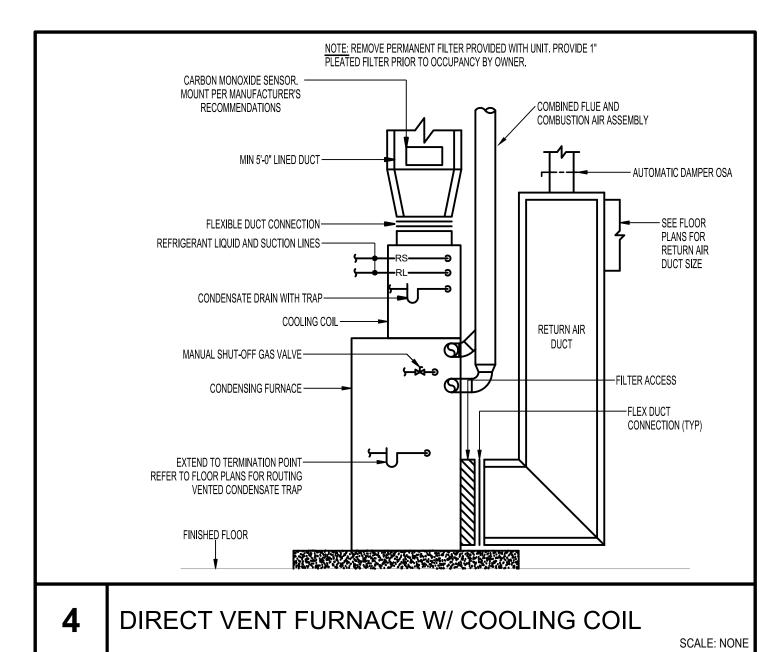
	DUCT SUPPORTS - VE	RTICAL DUCTS		NOTES:
	METAL STRAP OR ANGLE BRACKET	MAXIMUM DIAMETER OF ROUND DUCTS	WIRE SIZE/STRAPS	1. REFER TO ARCHITECTURAL AND STRUCTURAL PLAN FOR EXACT CONSTRUCTION LAYOUT. 2. THIS IS A TYPICAL CONSTRUCTION DETAILS BASED ON THE UNIFORM MECHANICAL CODE. ANY LOCAL CITY ADOPTED CODE
24"	1" X 1/8" STRAP (1)	10"	0.047 (NO. 18 GAGE) GALVANIZED STEEL 2" WIDE (1)	CONSTRUCTION FOR DUCT SUPPORT, BRACING AND SEISMIC ACHORAGE SYSTEM SHALL GOVERN.
36"	1" X 1" X 1/8" ANGLE (1)	20"	0.058 (NO. 16 GAGE) GALVANIZED STEEL 2" WIDE (1)	STRAP - REFER TO TABLE FOR ———————————————————————————————————
48"	1 1/8" X 1 1/8" X 1/8" ANGLE (1)	40"	1/8" STEEL X 1 1/2" (1)	
	DUCT SUPPORTS - HORIZ	ZONTAL DUCTS		1-1/2"
MAXIMUM SIDE OF RECTANGULAR DUCT	METAL STRAP OR ANGLE BRACKET	MAXIMUM DIAMETER OF ROUND DUCTS	STRAPS	FLEX DUCT
18"	1" X 18 GAGE (2)	10"	SAME GAGE AS GALV. STEEL DUCT,	FLEX DUCT (HORIZONTAL) SCALE: NONE WIRE - REFER TO TABLE ABOVE
30"	1" X 18 GAGE (2)	10	1" WIDE OR (NO. 18 GAGE GALV. STEEL WIRE) ON 10' CENTERS	FOR CORRECT GAGE AND SPACING
48"	1" X 1/8" (2)	20"	SAME GAGE AS GALV. STEEL DUCT, 1" WIDE OR (NO. 8 GAGE GALV.	STRAP-SAME GAGE AS DUCTWORK
		40"	STEEL WIRE) TIED TO 1" GALV. STEEL BAND AROUND DUCT ON 10' CENTERS	
	DUCT SUPPORTS - HORIZO	NTAL DUCTS - FLEXIE	BLE DUCT	DUCTWORK SEE TABLE
MAXIMUM DIAMETER OF ROUND DUCT			HANGER	ROUND DUCT (HORIZONTAL) SCALE: NONE (1) SPACED VERTICALLY NOT MORE THAN 12 FEET ON CENTERS
ANY		N	o. 26 GAUGE X 1-1/2" WIDE GALVANIZED IRON STRAP (3)	(2) SPACED HORIZONTALLY NOT MORE THAN 10 FEET ON CENTERS (3) SPACED NOT MORE THAN 4 FEET ON CENTERS
1 DUCT BRACI	NG AND SUPPORT			

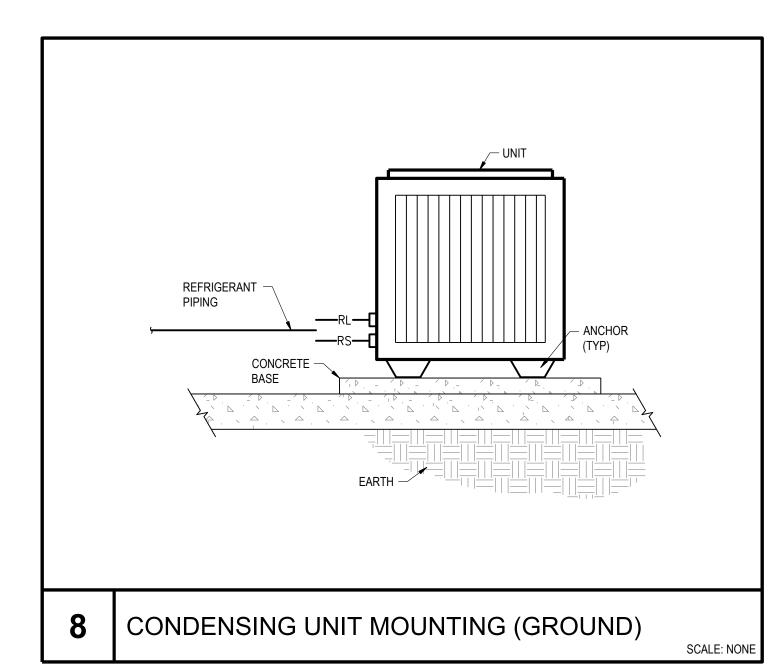


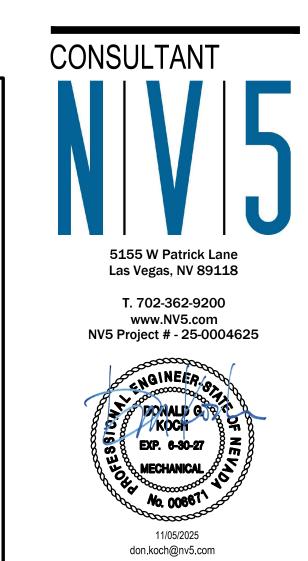












PROJECT NAME



SCALE: NONE

SHEET NAME

MECHANICAL DIAGRAMS

REVISIONS

DATE

11.06.2025

SHEET NUMBER

M5.00

IECC COMPLIANCE NOTES

- INSTALLATIONS SHALL COMPLY WITH 2018 IECC.
- 2. DUCTWORK INSULATION TO COMPLY TO LATEST ADOPTED EDITION:
- A. INTERIOR: R-6 MINIMUM B. EXTERIOR: R-8 MINIMUM

A. 7-DAY PROGRAMMABLE WITH SETBACK FUNCTIONALITY: 55°-85°.

B. 5-DEGREE DEADBAND

. ALL SYSTEMS AND INSTALLATION SHALL COMPLY WITH LATEST ADOPTED EDITION OF IECC AND ADOPTED AMENDMENTS.



2018 IECC Energy Code: Project Title: NN Food Bank Elko, Nevada Location: Climate Zone: Project Type: Alteration

Designer/Contractor: Construction Site:

Mechanical Systems List

QuantitySystem Type & Description

- 2 3 Ton (Single Zone):
- Heating: 1 each Central Furnace, Gas, Capacity = 87 kBtu/h
 Proposed Efficiency = 86.00% Et, Required Efficiency: 80.00 % Et or 80% AFUE
 Cooling: 1 each Split System, Capacity = 36 kBtu/h, Air-Cooled Condenser, Unknown Economizer
- Proposed Efficiency = 17.00 SEER, Required Efficiency = 13.00 SEER
- Proposed Part Load Efficiency = 0.00 , Required Part Load Efficiency = 0.00 Fan System: 3 Ton -- Compliance (Motor nameplate HP and fan efficiency method): Passes
- 3 Ton Supply, Constant Volume, 1200 CFM, 0.5 motor nameplate hp, 0.0 fan efficiency grade, 0.0 total fan efficiency, 0.0 design fan efficiency , fan exception: Single fan <= 5HP
- 5 Ton (Single Zone):
- Heating: 1 each Central Furnace, Gas, Capacity = 87 kBtu/h
- Proposed Efficiency = 86.00% Et, Required Efficiency: 80.00 % Et or 80% AFUE Cooling: 1 each - Split System, Capacity = 60 kBtu/h, Air-Cooled Condenser, Air Economizer
- Proposed Efficiency = 17.00 SEER, Required Efficiency = 13.00 SEER
 Proposed Part Load Efficiency = 0.00 , Required Part Load Efficiency = 0.00 Fan System: 5 TOn -- Compliance (Motor nameplate HP and fan efficiency method) : Passes

5 Ton Supply, Constant Volume, 2000 CFM, 0.8 motor nameplate hp, 0.0 fan efficiency grade, 0.0 total fan efficiency, 0.0 design fan efficiency , fan exception: Single fan <= 5HP

Mechanical Compliance Statement

Compliance Statement: The proposed mechanical alteration project represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed mechanical systems have been designed to meet the 2018 IECC requirements in COMcheck Version COMcheckWeb and to comply with any applicable mandatory requirements listed in the Inspection Checklist.
Griffin Marcelino
Griffin Marcelino
Griffin Marcelino

Project Title: NN Food Bank Data filename:

Report date: 08/14/25 Page 1 of 10

VENTILATION COMPLIANCE (UMC CHAPTER 4)

		AREA	OA REQUIREM	MENTS	occ	UPANT OA REQUIF	REMENTS	TOTAL OA	TOTAL OA
UNIT	SPACE	AREA (SQ FT)	AREA OA RATE (CFM/SQ FT)	AREA OA REQUIRED (CFM)	OCCUPANT QTY	OCCUPANT OA RATE (CFM/PERSON)	OCCUPANT OA REQUIRED (CFM)	TOTAL OA REQUIRED (CFM)	TOTAL OA PROVIDED (CFM)
<u>HP-1B</u>	OFFICE/BREAK ROOM	976	0.06	59	5	5	24	83	85
<u>HP-2B</u>	CONFERENCE	690	0.06	41	10	5	50	91	100
<u>HP-3B</u>	PANTRY/OFFICE	1532	0.06	92	3	5	15	107	110
						(OVERALL TOTALS	281	295

		EXH	AUS	Γ CA	LCU	LATI	ONS		
			AREA			FIXTURES		TOTAL EA	TOTAL EA
UNIT	SPACE	AREA (SQ FT)	CFM PER SQ FT	CFM	# OF WC/UR	CFM PER FIXTURE	CFM	TOTAL EA REQUIRED (CFM)	TOTAL EA PROVIDED (CFM)
	RESTROOM	125	0.5	63	3	70	210	210	210
<u>EF-1</u>	JANITOR	40	1.0	40	0	70	0	40	100
							TOTALS	250	310

	AIR DISTRIB	UTI	ON [DEVI	CE SCHEDULE
TAG	DESCRIPTION	NECK SIZE (IN)	OVERALL SIZE (IN)	CFM	REMARKS
D1	KRUEGER #5RM1 - ALUMINUM ROUND DIFFUSER WITH 3-CONES	8"Ø 10"Ø 12"Ø	14-3/4"Ø 18-1/4"Ø 22"Ø	0-210 211-410 411-620	FOR MOUNTING IN OPEN CEILING MOUNT AT FLUSH HEIGHT WITH LIGHTING DEVICES
D2	KRUEGER #PLQ - SQUARE PLAQUE FACE DIFFUSER	6"Ø 8"Ø	12x12	0-80 81-210	PROVIDE FRAME COMPATIBLE WITH CEILING TYPE
E1	KRUEGER #5S580 - ALUMINUM EXHAUST GRILLE	8"Ø	12x12	0-100	PROVIDE FRAME COMPATIBLE WITH CEILING TYPE
E2	KRUEGER #REGC5RD - ALUMINUM EXHAUST GRILLE	8"Ø	10-1/4"Ø	0-100	FOR MOUNTING IN OPEN CEILING MOUNT AT FLUSH HEIGHT WITH LIGHTING DEVICES
NOTES	S:				

- PROVIDE SQUARE TO ROUND TRANSITION, WHERE APPLICABLE 2. PAINT INSIDE OF RETURN PLENUM, SUPPLY BOOT FLAT BLACK.
- 3. COORDINATE COLOR WITH ARCHITECT PAINT IF NECESSARY, ESPECIALLY FOR WALL-MOUNTED GRILLES.
- 4. DUCT RUN TO DEVICE TO BE SAME AS NECK SIZE AS SCHEDULED. 5. PROVIDE RETURN GRILLES WITH SOUND BOOT PER DIAGRAM.

REMOVED EXISTING GAS PACKAGED ROOFTOP UNIT SCHEDULE (FOR REFERENCE ONLY)

		•					,			
					HEATIN	IG COIL			UNIT	
EXISTING ITEM	MANUFACTURER	AIRFLOW	SP	NOMINAL TONS	INPUT	OUTPUT		ELECTRICAL		MAX OPERATING
EXISTING ITEM	MODEL NUMBER	(CFM)	(IN W.G.)	NOMINAL TONS	(MBH)	(MBH)	V/PH	НР	KW	WEIGHT (LBS)
(E) <u>AC-1</u>	PAYNE 585B036075	1300	0.25	3	60.0	45.0	208 / 3	28.4 A	5.91	400
(E) <u>AC-2</u>	PAYNE 585B048125	1600	0.25	4	100.0	75.0	208 / 3	28.4 A	5.91	500

REMOVED EXISTING EXHAUST FAN SCHEDULE (FOR REFERENCE ONLY)

		(- /		
ITEM	LOCATION	MANUFACTURER MODEL NUMBER	AIRFLOW (CFM)	SP (IN W.G.)	ELECT	RICAL	MAX OPERATING WEIGHT (LBS)
		WIODEL NOWIDER	(OI III)	(114 14.0.)	HP	V / PH	(LDO)
(E) <u>EF-1</u>	ROOF	GREENHECK CF-10-B	800	0.25	1/12	120 / 1	75

REMOVED EXISTING UNIT HEATER SCHEDULE (FOR REFERENCE ONLY)

		•			,		
		MANUFACTURER	INPUT	OUTPUT		ELECTRICAL	
ITEM	LOCATION	MANUFACTURER MODEL NUMBER	(MBH)	(MBH)	НР	V / PH	KW
(E)UH-1	WAREHOUSE	PAYNE	150.0	120.0	2.84 A	120 / 1	5.91

NEW DIRECT VENT FURNACE W/ COOLING COIL SCHEDULE

IT	EM	LENNOX MODEL NUMBER	LENNOX	F	AN	coo	LING	HEA	TING	NOMBA		FURNACE UNIT				OUTDOOR UNIT			
INDOOR	OUTDOOR	(OUTDOOR UNIT) / (INDOOR UNIT)	COOLING COIL MODEL NUMBER	CFM	ESP (IN W.G.)	TOTAL MBH	SEER	INPUT MBH	OUTPUT MBH	NOMINAL TONS	REFR	V / PH	НР	FLA (A)	MOCP (A)	V/PH	MCA (A)	MOCP (A)	NOTES
<u>HP-1B</u>	HP-1A	SL28XCV-036-230A01 / SLP99UH070XV36C	CH33-36A-2F	1200	0.5	36	17	88	76	3	R-410A	120 / 1	1/2	7.7	15	208 / 1	17.8	25	1 THRU 6
HP-2B	HP-2A	SL28XCV-036-230A01 / SLP99UH070XV36C	CH33-36A-2F	1200	0.5	36	17	88	76	3	R-410A	120 / 1	1/2	7.7	15	208 / 1	17.8	25	1 THRU 6
HP-3B	HP-3A	SL28XCV-060-230A01 / SLP99UH090XV60C	CH33-60A-2F	2000	0.5	60	17	88	76	5	R-410A	120 / 1	3/4	10.1	15	208 / 1	29.5	50	1 THRU 6

. ACTUAL OPERATION AT 5200' ABOVE SEA LEVEL. 2. CONDENSER SHALL BE RATED AT 100°F AMBIENT AIR TEMPERATURE B. PROVIDE DUCT SMOKE DETECTOR IN SUPPLY AIR DUCT.

2. MOUNT PER MANUFACTURER'S RECOMMENDATIONS.

3. MOUNTING HEIGHT TO BE AT 10' AFF.

3. PROVIDE WITH SWITCH CONTROL. CONFIRM SWITCH LOCATION WITH ARCHITECT.

4. PROVIDE SUPPLY UNIT WITH ALL ADDITIONAL ACCESSORIES TO ACHIEVE MINIMUM 17 SEER. 5. INSTALL HONEYWELL ZONE BYPASS SYSTEM PER MANUFACTURER'S RECOMMENDATIONS. 6. PROVIDE SIDE RETURN AIR OPENING PLENUM KIT.

NEW EXHAUST FAN SCHEDULE									
ITEM	LOCATION	MANUFACTURER MODEL NUMBER	AIRFLOW (CFM)	SP (IN WG)	FAN RPM			MAX OPERATING WEIGHT	NOTES
		WODEL NUMBER	(CFW)	(IN WO)	KPIVI	HP	V / PH	(LBS)	
<u>EF-1</u>	ROOF	GREENHECK CUE-090-D	310	0.5	1550	1/15	120 / 1	50	1,2,3

		NEW (GAS F	IRED	UNIT H	EATE	R SC	HED	ULE		
		DEZMOD	INDUT	OUTPUT	AIR TEMP. RISE	FLOW RATE		EL	ECTRICAL		
ITEM	LOCATION	REZNOR Model Number	INPUT (MBH)	LOW/HI (MBH)	(°F)	(CFM)	V / PH	НР	FLA (A)	MOCP (A)	NOTES
<u>UH-1</u>	WAREHOUSE	UDXC-125	125.0	35.0 / 87.6	60	1537	120 / 1	1/4	5.6	15	1 THRU 3
<u>UH-2</u>	WAREHOUSE	UDXC-125	125.0	35.0 / 87.6	60	1537	120 / 1	1/4	5.6	15	1 THRU 3
<u>UH-3</u>	WAREHOUSE	UDXC-125	125.0	35.0 / 87.6	60	1537	120 / 1	1/4	5.6	15	1 THRU 3
<u>UH-4</u>	WAREHOUSE	UDXC-125	125.0	35.0 / 87.6	60	1537	120 / 1	1/4	5.6	15	1 THRU 3



Las Vegas, NV 89118

T. 702-362-9200 www.NV5.com NV5 Project # - 25-0004625



PROJECT NAME



SHEET NAME

REVISIONS

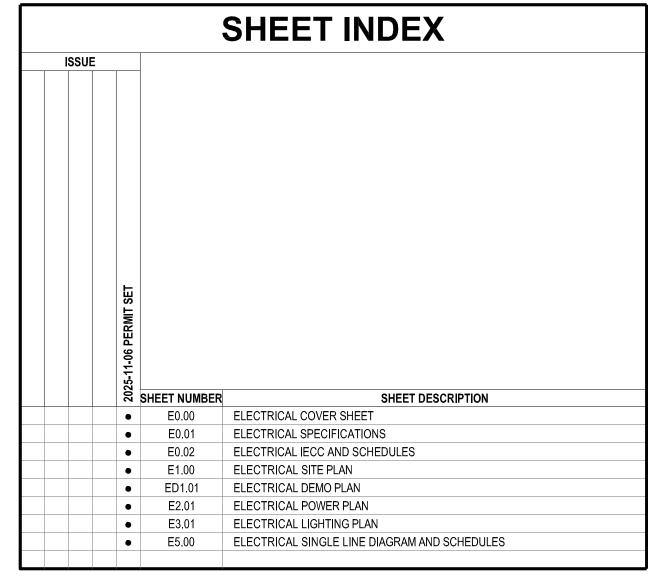
LIGHTING CONTROL LEGEND

- ROOM CONTROLLER (GREENGATE CAT#RC3D-PL). LOWER CASE LETTERS ON FIXTURES IN THIS ROOM INDICATE DIMMER/CONTROL ZONES, NUMBERS INDICATE RELAY ON/OFF CONTROL NUMBER.
- WS2 2-ZONE ROOM CONTROLLER WALL STATION: 6-BUTTON, 1) ALL ON, 2) RAISE 1, 3) LOWER 1, 4) RAISE 2, 5) LOWER 2, 6) ALL OFF. GREENGATE CAT #RC-6TSB-621.
- WS3 3-ZONE ROOM CONTROLLER WALL STATION IN TWO WALL BOXES: 3-BUTTON SWITCH WITH ON/OFF TOGGLE FOR EACH ZONE - GREENGATE CAT #RC-3TLB-331. 6-BUTTON SWITCH FOR DIMMER RAISE/LOWER CONTROL -GREENGATE CAT #RC-6TSB-ZAD.
- PC ROOM CONTROLLER DAYLIGHT SENSOR (GREENGATE CAT#DSRC-FMOIR).
- DM1 LINEAR DIMMING CONTROL MODULE FOR REVERSE PHASE/ELV DIMMING (0-10V DIMMING CONTROLS TO LINE VOLTAGE FIXTURES) (GREENGATE CAT #LDCM-PL-120-277-010V-GR) (450W @120V, 1000W @277V MAX.)
- DM2 LINEAR DIMMING CONTROL MODULE FOR FORWARD PHASE DIMMING (0-10V DIMMING CONTROLS TO LINE VOLTAGE FIXTURES) (GREENGATE CAT #PD216-AN10) 1920W @120V, 4500W @277V MAX.)
- SVI WALL SWITCH TYPE DUAL TECHNOLOGY (PIR/ULTRASONIC) VACANCY SENSOR (GREENGATE CAT#VNW-D-1001-MV-W OR EQUAL).
- So1 WALL SWITCH TYPE DUAL TECHNOLOGY (PIR/ULTRASONIC) OCCUPANCY SENSOR (GREENGATE CAT#ONW-D-1001-MV-W OR EQUAL).
- Sv2 WALL SWITCH TYPE PIR TYPE VACANCY SENSOR (GREENGATE CAT#VNW-P-1001- MV-W OR EQUAL).
- SVC WALL SWITCH MANUAL CONTROL FOR CEILING VACANCY SENSOR (GREENGATE CAT#GMDS-W OR EQUAL).
- SDVC WALL SWITCH MANUAL ON/OFF/DIMMER (0-10V) FOR CEILING VACANCY SENSOR (GREENGATE CAT#WBSD-010M-C1)
- CEILING MOUNTED DUAL TECHNOLOGY (PIR/ULTRASONIC) VACANCY SENSOR (GREENGATE CAT#OAC-DT-1000-R). PROVIDE WITH POWER PACK (GREENGATE CAT#SP20-RD4) AND MANUAL CONTROL SWITCH.
- CEILING MOUNTED DUAL TECHNOLOGY (PIR/ULTRASONIC) VACANCY SENSOR (GREENGATE CAT#OAC-DT-2000-R). PROVIDE WITH POWER PACK (GREENGATE CAT#SP20-RD4) AND MANUAL CONTROL SWITCH.
- CEILING MOUNTED DUAL TECHNOLOGY (PIR/ULTRASONIC) VACANCY SENSOR (GREENGATE CAT#OAC-DT-2000-R). PROVIDE SENSOR TO BE INTERCONNECTED WITH MASTER VACANCY SENSOR AND POWER PACK AS SHOWN ON DRAWINGS AND PER MANUFACTURER'S RECOMMENDATIONS.
- CEILING MOUNTED DUAL TECHNOLOGY (PIR/ULTRASONIC) OCCUPANCY SENSOR (GREENGATE CAT#OAC-DT-1000-R). PROVIDE WITH POWER PACK (GREENGATE CAT#SP20).
- CEILING MOUNTED DUAL TECHNOLOGY (PIR/ULTRASONIC) OCCUPANCY SENSOR (GREENGATE CAT#OAC-DT-2000-R). PROVIDE WITH POWER PACK (GREENGATE CAT#SP20).
- CEILING MOUNTED DUAL TECHNOLOGY (PIR/ULTRASONIC) OCCUPANCY SENSOR (GREENGATE CAT#OAC-DT-2000-R). PROVIDE WITH POWER PACK (GREENGATE CAT#SP20). SENSOR TO BE INTERCONNECTED WITH MASTER SENSOR AS SHOWN BELOW PER MANUFACTURER'S RECOMMENDATIONS.
- PD CEILING MOUNTED PHOTODIODE (GREENGATE CAT#DLC-PD-DIM) FOR CONNECTION TO 0-10V DIMMING BALLAST/DRIVER.
- SP LOW VOLTAGE SENSOR SWITCHPACK (GREENGATE CAT#SP20-RD4) (SHOWN FOR CLARITY ONLY).
- Sn WALL DIMMER SWITCH, 0-10V (COOPER CAT#WBSD-010M-C1).
- **SD3** WALL DIMMER SWITCH, 3-WAY CAPABLE (LUTRON MAESTRO, WHITE).
- Sv3 WALL VACANCY SENSOR/0-10V DIMMER SWITCH (GREENGATE CAT#OSW-P-010)

GENERAL NOTES:

- 1. PROVIDE ALL CONTROL EQUIPMENT WITH ACCESSORIES REQUIRED FOR A COMPLETE INSTALLATION.
- 2. DEVICES SPECIFIED ARE WHITE. CONFIRM DEVICE AND COVER PLATE COLOR REQUIREMENTS WITH ARCHITECT PRIOR TO CONSTRUCTION.
- 3. PROVIDE EXTERNAL RELAY (GREENGATE CAT #SPRC-R-20-120) FOR CONTROL OF FIXTURES THAT ARE SHOWN TO BE CONNECTED TO 120V BRANCH CIRCUITS WITH CONTROL CONNECTION TO ROOM CONTROLLER IN THIS ROOM.

MBOL	DESCRIPTION		SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
\supset	SHEET NOTE		T	TIMEGLOOK DEGEDTAGLE		
$\overline{\Delta}$	REVISION NUMBER		⊕'	TIMECLOCK RECEPTACLE		
	LIGHT FIXTURE. CIRCLE REPRESENTS FIXTURE IN GYPSUM BOARD ONLY		→ ^P	SINGLE RECEPTACLE WITH INTEGRAL LOW VOLTAGE TRANSFORMER AND (2) USB PORTS		PRIMARY MEDIUM VOLTAGE SWITCH WITH UNIT SUBSTATION
	LIGHT FIXTURE. CIRCLE REPRESENTS FIXTURE IN		P	DUPLEX RECEPTACLE WITH INTEGRAL LOW VOLTAGE		
	GYPSUM BOARD ONLY		⇒ °	TRANSFORMER AND (2) USB PORTS	r t, t,	
Н	LIGHT FIXTURE		→ P4	RECEPTACLE WITH INTEGRAL LOW VOLTAGE		PRIMARY MEDIUM VOLTAGE SWITCH EXTERIOR PAD MOUNT
\neg	LIGHT FIXTURE. CIRCLE REPRESENTS FIXTURE IN			TRANSFORMER AND (4) USB PORTS	- L	WOOKI
	GYPSUM BOARD ONLY		⇒ ™	TELEVISION RECEPTACLE	†	
	LIGHT FIXTURE WITH (1) LAMP ON EMERGENCY					
			\mathbf{O}_{DH}	DOOR HARDWARE CONNECTION	(FUSIBLE MEDIUM VOLTAGE SWITCH
	LIGHT FIXTURE ON EMERGENCY CIRCUIT OR INTEGRAL BATTERY BACK-UP		ШО		——————————————————————————————————————	
A	LETTER INDICATES LIGHT FIXTURE TYPE AS INDICATED		\mathbf{O}_{HO}	DOOR HOLD OPEN	1	
	ON FIXTURE SCHEDULE			NON-FUSED DISCONNECT SWITCH - 30A, 3P UNLESS		MEDIUM VOLTAGE MODULAR CONNECTORS
)	DOWNLIGHT FIXTURE		Ш·	NOTED OTHERWISE	T T	
a	DOWNLIGHT FIXTURE ON EMERGENCY CIRCUIT		E	FUSED DISCONNECT SWITCH - 30A, 3P WITH	^	
	OR INTEGRAL BATTERY BACK-UP			30A FUSES UNLESS NOTED OTHERWISE		DRAW-OUT CIRCUIT BREAKER - MEDIUM VOLTAGE
্ ন্থ	EMERGENCY BATTERY LIGHTING UNIT WITH TWIN HEADS			MAGNETIC MOTOR STARTER - FVNR, NEMA SIZE #1	•	
<u> </u>	WALL MOUNTED FIXTURE POLE MOUNTED FIXTURE		\boxtimes	(UNLESS NOTED OTHERWISE) WITH HOA, RED RUN PILOT LIGHT, CONTROL XFMR, SOLID STATE		CIRCUIT BREAKER
	EXIT LIGHT WITH DIRECTIONAL ARROWS AS INDICATED			OVERLOADS, (2) NO AND (2) NC CONTACTS	ر ا	OINOOH DINEANEN
<u>\$</u>	CEILING MOUNTED		E	COMBINATION FUSED SWITCH AND STARTER AS	•	
₽	EXIT LIGHT WITH DIRECTIONAL ARROWS AS INDICATED		F,	NOTED ABOVE	©-)	SHUNT TRIP CIRCUIT BREAKER
2	WALL MOUNTED		N X	COMBINATION NON-FUSED SWITCH AND STARTER AS		
<u> </u>	DOUBLE FACE EXIT LIGHT WITH DIRECTIONAL			NOTED ABOVE	^	
	ARROWS AS INDICATED CEILING MOUNTED		-R	RELAY		DRAW-OUT CIRCUIT BREAKER - 600 VOLT
S	SINGLE POLE SWITCH AT +44" UNLESS NOTED		C	CONTACTOR	•	
SS	DUAL SWITCH AT +44" UNLESS NOTED	1	Р	POWER SUPPLY TIMECLOCK		FUSIBLE SWITCH
S_3	3-WAY POLE SWITCH AT +44" UNLESS NOTED		TC	TIMECLOCK	<u> </u>	FUSIBLE SWITCH
			(PC)	PHOTOCELL (INSTALL ON ROOF FACING NORTH)	Υ	
S ₄	4-WAY POLE SWITCH AT +44" UNLESS NOTED		Ю	THERMOSTAT OUTLET AT +44" UNLESS NOTED		
C	SWITCH WITH NEON PILOT LIGHT AT +44"		•	PUSHBUTTON TYPE CONTROL STATION	<u> </u>	GROUND BUS AND GROUNDING ELECTRODES
S _P	UNLESS NOTED	1	B	DOORBELL - CEILING MOUNTED	- ÷	
S.	BACKLIT SWITCH AT +44" UNLESS NOTED	\bigcirc	СВ	CIRCUIT BREAKER		
<u></u>				FOOD SERVICE EQUIPMENT-SEE FOOD SERVICE PLANS	® ∕	KIRK-KEY SWITCH
S _D	DIMMER SWITCH COMPATIBLE WITH LOAD TYPE AT +44" UNLESS NOTED			SURFACE MOUNTED PANELBOARD	<u>'</u>	
	DIMMER SWITCH WITH INTEGRAL MOTION SENSOR	_		FLUSH MOUNTED PANELBOARD	—— 	GENERATOR WITH OVERCURRENT PROTECTION
S _{DM}	-AT +44" UNLESS NOTED			SWITCHBOARD, MOTOR CONTROL CENTER OR	1	
c	2 POLE SWITCH			DISTRIBUTION BOARD	 	GROUNDING ELECTRODE
S _{2P}	2 FOLE SWITCH			CONCRETE PULLBOX WITH HEAVY DUTY STEEL TRAFFIC	\longrightarrow	SINGLE METER WITH CT
S _K	SWITCH - KEY OPERATED			COVER)	
	OFILING MOUNTED MOTION OFNOOD		Т	TRANSFORMER	[°]	AUTOMATIC TRANSFER SWITCH
<u>M</u> D	CEILING MOUNTED MOTION SENSOR DAYLIGHT OR MOTION SENSOR (INDOORS)		<u> </u>	MOTOR OUTLET		
	BATEIGHT GATMOTION GENOOM (INDOGRA)		<u> </u>	HOMERUN CONDUIT - STROKES INDICATE QUANTITY OF		SHUNT TRIP DEVICE LOCATED IN METAL ENCLOSURE
S _T	THERMAL OVERLOAD SWITCH			CONDUCTORS		WITH HINGED AND LOCKABLE COVER
S _{TM}	SWITCH WITH DIGITAL TIMER			CONDUIT AND/OR WIRING METHOD CONCEALED IN WALL	XXXX	FEEDER - SIZE AS INDICATED ON FEEDER SCHEDULE
				OR ABOVE CEILING EXCEPT IN EXPOSED STRUCTURE AREAS		
DM EM	DIMMING MODULE SWITCHING MODULE			CONDUIT AND/OR WIRING METHOD BELOW FLOOR OR	<u></u>	MECHANICAL EQUIPMENT - SEE HVAC AND PLUMBING
<u>M</u> ∋	SWITCHING MODULE SINGLE RECEPTACLE AT +18" UNLESS NOTED	1		GRADE	<u>.</u>	DRAWINGS
<i>3</i> ∌	DUPLEX RECEPTACLE AT +18" UNLESS NOTED	\bigcirc		EXISTING CONDUIT AND/OR WIRING METHOD TO BE	/ .	
∋	GFCI RECEPTACLE AT +18" UNLESS NOTED	1		REMOVED	♦	CAMERA
₽	DOUBLE DUPLEX RECEPTACLE AT +18" UNLESS NOTED	1		EXISTING CONDUIT AND/OR WIRING METHOD TO REMAIN		WIRELESS ACESS POINT
Ð	SPECIAL RECEPTACLE AT +18" UNLESS NOTED			(SHOWN LIGHT LINEWEIGHT)	(WAP)	WINELESS ACESS FOINT
$\nabla \Phi$	FLUSH FLOOR DUPLEX RECEPTACLE (W/ DATA)			CONDUIT STUB-OUT	0	JUNCTION BOX
	FLUSH FLOOR DOUBLE DUPLEX RECEPTACLE (W/ DATA)			CONDUIT AND/OR WIRING METHOD RISER UP/RISER DOWN		JUNCTION BOX AND SWITCH WITH CONNECTION TO FIRE/SMOKE DAMPER.
<u>a</u>	CEILING MOUNTED SPECIAL RECEPTACLE FLUSH FLOOR SPECIAL RECEPTACLE		•	TELEPHONE OUTLET (MOUNT AT +18")	 □ □ I I I I I I I I I I	COORDINATE REQUIREMENTS WITH FIRE ALARM SYSTEM AND MECHANICAL CONTROL DIAGRAMS
∌ ਭਾ	CEILING MOUNTED DUPLEX RECEPTACLE		$lackbox{$	WALL TELEPHONE OUTLET (MOUNT AT +18")	V	JUNCTION BOX AND SWITCH WITH CONNECTION TO VARIABLE AIR VOLUME BOX
	1/2 SWITCHED (BOTTOM HALF) DUPLEX RECEPTACLE		∇	COMPUTER OUTLET (MOUNT AT +18")	••••••••••••••••••••••••••••••••••••••	COORDINATE REQUIREMENTS WITH MECHANICAL CONTROL DIAGRAMS
€	AT +18" UNLESS NOTED		V	COMBINATION PHONE/COMPUTER OUTLET (MOUNT AT +18")		
∋ °	RECEPTACLE INSTALLED ABOVE COUNTER	(1)	V	FLOOR BOX WITH COMM. OUTLET (SHOWN IS PHONE/DATA)		
-			∇	TELEVISION OUTLET (MOUNT AT +18")		
						NOTES



EXISTING CONDITIONS

THIS PROJECT INVOLVES CONSTRUCTION INSIDE AN EXISTING STRUCTURE. CONTRACTORS, BY SUBMITTING A BID ARE DEEMED TO BE COMPLETELY FAMILIAR WITH THE EXISTING CONDITIONS OF THE BUILDING AS IT INFLUENCES THE WORK DESCRIBED. NO CLAIMS FOR EXTRA COMPENSATION WILL BE CONSIDERED FOR EXISTING CONDITIONS VISIBLE OR REASONABLY INFERABLE FROM A CAREFUL EXAMINATION OF THE EXISTING BUILDING CONDITIONS. CONTRACTOR SHALL INSPECT THE EXISTING FIELD CONDITIONS AT THE SITE (INCLUDING BUT NOT LIMITED TO SIZES INVERTS AND POINTS OF CONNECTION) AND THE CONTRACT DOCUMENTS PRIOR TO THE START OF ANY WORK TO DETERMINE WHAT EFFECT THE EXISTING CONDITIONS WILL HAVE ON THE WORK POTENTIAL. CONTRACTOR SHALL REPORT DISCREPANCIES TO THE ARCHITECT AND INCLUDE IN HIS BID ALL COSTS REQUIRED TO MAKE HIS WORK MEET EXISTING CONDITIONS.

ELECTRICAL APPREVIATION LIST

I	(THIS IS A MASTER LIST, NOT ALL ABBREVIATIONS MAY APPEAR ON DRAWINGS.)
+18"	MOUNTING HEIGHTS ARE TO CENTERLINE OF DEVICE ABOVE FINISH FLOOR OR FINISH GRADE
A AFF AFCI AHJ AL ATS	AMPERE ABOVE FINISH FLOOR ARC FAULT CIRCUIT INTERRUPTER AUTHORITY HAVING JURISDICTION ALUMINUM AUTOMATIC TRANSFER SWITCH
C CEC	CONDUIT WITH PULL-LINE ONLY CALIFORNIA ELECTRICAL CODE
DB DC DN	DISTRIBUTION BOARD DIRECT CURRENT DOWN
(E) EC	EXISTING EMPTY CONDUIT
FLA	FULL LOAD AMPS
GFCI GFP GRND	GROUND FAULT CIRCUIT INTERRUPTER GROUND FAULT PROTECTION GROUND
HOA HZ	HAND OFF AUTO HERTZ

INTERNATIONAL BUILDING CODE

KILOWATT

MAXIMUM MCA MINIMUM CIRCUIT AMPS MOTOR CONTROL CENTER

MCC MAXIMUM OVER CURRENT PROTECTION MOCP

MTD MOUNTED MANUAL TRANSFER SWITCH MTS NOT APPLICABLE

NORMALLY CLOSED NATIONAL ELECTRICAL CODE NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION NFPA NATIONAL FIRE PROTECTION ASSOCIATION

NOT IN CONTRACT NORMALLY OPEN NRTL NATIONALLY RECOGNIZED TESTING LABORATORY

NEVADA ENERGY ON CENTER OWNER FURNISHED CONTRACTOR INSTALLED

OSHPD OFFICE OF STATEWIDE HEALTH PLANNING AND DEVELOPMENT PH(~) PHASE PNL PANEL

SOLID NEUTRAL SOUTHERN NEVADA ELECTRICAL CODE AMENDMENTS SNEC

SWBD SWITCHBOARD TYP **TYPICAL**

SQFT

UNDERWRITERS LABORATORIES UNLESS NOTED OTHERWISE

SQUARE FEET

UNINTERRUPTIBLE POWER SYSTEM UPS VOLT-AMP

VARIABLE AIR VOLUME VOLTAGE DROP

WEATHER-PROOF (NEMA 3R)

XFMR TRANSFORMER **EXPLOSION PROOF**

CONSULTANT Las Vegas, NV 89118 T. 702-362-9200 www.NV5.com NV5 Project # - 25-0004625 ENGINEERSY

REED M. STOUT

PROJECT NAME



SHEET NAME

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ON HO

REVISIONS

DATE

11.06.2025

PART 1GENERAL

- 1.1 SCOPE OF WORK Provide all labor, materials, equipment, etc. necessary for a completely wired and operational electrical system as shown on the electrical drawings, utility drawings, fire sprinkler/fire alarm drawings and specified herein, including but not limited to, these major items.
- A. Lighting fixtures as indicated and specified on the plans.
- B. Electrical panels, controls, service, disconnects, conduit, wiring, etc., for all outlets and equipment.
- C. Telephone outlets and conduit as indicated.
- D. Conduit and outlets for alarm, computer, and security systems as indicated.
- E. Control wiring for electrical systems.
- 1,2 CODES, REGULATIONS AND STANDARDS
- A. The installation shall comply with applicable local and state codes and ordinances, with the regulations of the latest edition of the National Electric Code and with the requirements of the power and telephone companies furnishing services to this installation.
- B. The following industry standards, specifications and codes are minimum requirements:
- 1. The National Electrical Manufacturer's Association Standards.
- 2. The National Electrical Code, current adopted version with local amendments by authority having
- jurisdiction.
- 3. Underwriter Laboratories Incorporated Standards. American National Standards Institute.
- 5. International Energy Conservation Code, current adopted version with local amendments by authority having jurisdiction.
- 1.3 INSPECTION OF SITE Prior to submitting a bid for electrical work, the Contractor shall visit the site of the proposed construction and shall thoroughly acquaint himself with existing utilities, and working conditions to be encountered. etc. Allowance will not be made for non-compliance with this condition after bidding. 1.4 STORAGE AND HANDLING OF MATERIAL
- A. Deliver materials and equipment to the project in the manufacturer's original, unopened, labeled containers. Protect against moisture, tampering, or damage from improper handling or storage. Contractor shall protect and be responsible for any damage to work or materials until final acceptance by the Owner, and shall make good without cost to the Owner, any damage or loss that may occur during this period.
- B. Arrange for timely delivery of materials and equipment to the jobsite in order to minimize the length of time between delivery and installation.
- C. Cover and protect any material which may be affected by the weather while in transit or stored at the project site. Any material found defective or not installed in accordance with the contract documents may be rejected by the Engineer.

1.5 EXPLANATION AND PRECEDENCE OF DRAWINGS

- A. The drawings indicate the general arrangement and locations of the electrical work. Data presented on these drawings are as accurate as planning can determine, but field verification of all dimensions, locations, levels, etc., to suit field conditions is required. Review all architectural, structural and mechanical drawings and adjust all work to meet the requirements of conditions shown. The architectural drawings shall take precedence over all other drawings. Discrepancies between different plans, or between drawings and specifications, or regulations and codes governing the installation shall be brought to the attention of the engineer in writing before the date of bid opening. If discrepancies are not reported, the contractor shall bid the greater quantity or better quality, and appropriate adjustments will be made after contract award. Contractor shall be responsible to field measure and confirm mounting heights and location of electrical equipment with respect to counters, radiation, etc. Do not scale distances off the electrical drawings. Use actual building dimensions.
- B. In all cases, switches controlling lighting are to be located on the strike side of doors. Where more than one switch is indicated in adjacent locations on the plans the switches shall be ganged together in a single box with a single cover plate. Locations indicated for switches and outlets are approximate. Owner may make minor relocations at no additional charge.

1.6 COOPERATION WITH OTHER CONTRACTORS

- A. Cooperate with the other trades so that the installation of the electrical outlets and equipment will be properly coordinated. Conduit, fixtures, and other equipment locations shall be checked with the other trades to avoid conflict with the piping, ductwork, steel, beams, or other obstructions.
- Carefully check the locations of the outlet boxes and determine that they have not been disturbed during the installation of materials of other trades.

1.7 MECHANICAL AND ELECTRICAL COORDINATION

- A. Any device which carries the full load current of the electrically driven machinery, as opposed to the control of instrumentation current in the holding coil, is a power circuit and is the responsibility of the electrical contractor Control or instrumentation circuits connecting holding coils to the automatic temperature control system are the responsibility of the Mechanical Contractor.
- B. The power circuit is defined as all devices necessary to operate, and as required by code to protect and service the unit, including branch circuit protective devices, disconnects, either fused or unfused, magnetic motor starters with running overload and single phasing protection, magnetic contactors, etc.
- C. The control or instrumentation circuit is defined as all devices necessary to interface the electrical power circuit with the automatic temperature control system including conduit, boxes, conduit fittings, conductors, electric-pneumatic switches, pneumatic-electric switches, electrical and pneumatic relays, pneumatic tubing,

1.8 EQUIPMENT FURNISHED BY OTHERS

- A. Verify exact location and connection requirements of equipment furnished by others prior to rough-in. Final connections to equipment shall be per manufacturer's approved wiring diagrams, details and instructions. It shall be the contractor's responsibility to provide materials and equipment compatible with equipment actually
- B. Fire Sprinkler System Equipment Provide connection to all fire sprinkler system equipment as required by the fire sprinkler contractor. Refer to the fire sprinkler drawings for equipment locations and connection requirements

1.9 FIRE ALARM SYSTEM

- A. A fire alarm system is required as a part of the Contractor's scope of work. The system requirements are not shown on these drawings. Fire alarm system shall be design/build by Contractor and included in base bid. System shall be designed to all applicable local codes as required by the Authority Having Jurisdiction.
- B. Contractor shall engage the services of a state licensed fire protection contractor for the design and installation of a complete and operable fire alarm system that complies with all IBC, NFPA, NEC and local ordinances and requirements approved by Authority Having Jurisdiction.
- C. System shall include all devices, conduit, wiring/cables and equipment required for a complete and operational
- D. System design and installation shall be compatible with existing building system and approved by landlord prior to bid. Fire alarm system shall be the same manufacturer as the existing building fire alarm system unless otherwise approved by the Landlord and Authority Having Jurisdiction. Include all costs in base bid.

1.10 GUARANTEE

A. Guarantee all material furnished and all workmanship performed for a period of one year from the date of final acceptance of the work. Any defects developing within this period, traceable to material furnished as a part of this Section or workmanship performed hereunder, shall be made good at no expense to the Owner.

1.11 SHOP DRAWINGS AND APPROVALS

- A. The items specified herein and on drawings are used as a standard of quality. Any materials of equal quality, performance, dimensions and aesthetic value will be given consideration as a substitute for the materials specified. No approval will be given to a specific catalog number, model or type of equipment, prior to bidding. After bidding, the decision of the Architect and/or Engineer, determining equal materials, will be final.
- Submittal Preparation Requirements The Contractor shall submit manufacturer's data sheets for equipment identified in this section in electronic Adobe Portable Document Format (.pdf). Submittal shall be made within 15 days of award of contract. Each submittal shall be clearly identified with project name, submittal date, contractor's name and the date of the contractor's review and approval. Manufacturer's data sheets shall be highlighted or marked to clearly identify specific part numbers, model numbers, etc. including all options specified in the contract documents. Submittal shall be organized and indexed to properly identify specific groups of items as identified in this section. All items shall be submitted at one time for the engineer's review. Partial submittals are not acceptable.
- C. Submittal Content Requirements
- 1. Manufacturer's data sheets for the following categories of equipment shall be submitted for engineer's
- a. Lighting fixture cuts and performance data.
- b. Outline drawings and data sheets of each panelboard and switchboard.
- Data sheets of all wiring devices and fuses.
- d. Data sheets on all lighting control panels with associated control devices, relays, contactors, override switches and photosensors.
- e. Data sheets on all lighting occupancy/vacancy sensors, daylighting and automatic control devices.
- 2. Drawings scaled at ¼"=1'-0" of all rooms with electrical switchgear and transformers. Drawings shall show locations of equipment drawn to scale with dimensions of equipment and clearances in front and to the sides of equipment. Layout shall be coordinated with mechanical and piping systems.
- 3. Contractor shall furnish an arc-flash hazard analysis study as per IEEE1584 equations and NFPA70E and provide equipment labeling as required.
- D. Where materials and equipment are specified or indicated by the name of the manufacturer or by accepted trade designation, substitution will be considered. Where two (2) or more items are furnished under the same specification, they shall be of the same manufacturer and be identical and interchangeable.

1.12 BASE BID

- A. Base bid shall include materials and equipment specified or scheduled on the drawings. Requests for substitution of materials and equipment shall be by additive or deductive alternate bid only, with the following data clearly written at the beginning of the alternate proposal:
- 1. Additive or deductive amount clearly written in words and numerals.
- 2. Increased or reduced construction time in days.
- Other demonstrable benefit, for which the substitution of such item will be in the Owner's interest.

B. Only those materials and equipment which are submitted as an alternate bid will be reviewed and considered. 1.13 SUBSTITUTIONS

- A. Prior to proposing any substitute item, Contractor shall satisfy himself that the item proposed is, in fact, equal to that specified, that such item will fit into the space allocated, that such item affords comparable ease of operation, maintenance and service, that the appearance, longevity, performance, capacity and suitability are comparable, and that by reason of cost savings, reduced construction time, or similar demonstrable benefit, the substitution of such item will be in the Owner's interest.
- The burden of proof of equality of a proposed substitution for a specified item shall be upon the Contractor. Contractor shall support its request with sufficient test data and other means to permit the Owner to make a fair and equitable decision on the merits of the proposed substitution. Any item by a manufacturer other than those specified, or of brand name or model number, or of generic species other than those specified will be considered a substitution. Owner will be the sole judge of whether or not the substitution is equal in quality, utility, and economy to that specified.
- C. Approval of a substitution shall not relieve Contractor from responsibility for compliance with all requirements of the Contract. Contractor shall bear the expense for any changes in other parts of this work or other work caused by the proposed substitution.
- D. If Owner rejects Contractor's substitute item on the first submittal. Contractor may make only one additional request for substitution in the same category.

1.14 SYSTEM COMMISSIONING AND FUNCTIONAL TESTING

- A. Lighting control functional testing.
- 1. Functional testing of automatic lighting controls shall be performed by a third-party commissioning agent that is approved by the Authority Having Jurisdiction for the commissioning of the specified lighting controls. Functional testing costs shall be included in the contractor's bid.
- 2. Automatic lighting control devices and control systems shall be tested to ensure that control hardware and software are calibrated, adjusted, programmed and are in proper working condition in accordance with the contract documents and manufacturer's installation and operation instructions. Testing shall be performed on all occupancy/vacancy sensors, time switches, programmable schedule controls and photosensors. Testing shall comply with IECC requirements, as adopted by local jurisdiction.

- A. Provide temporary power service and distribution as required. Coordinate requirements with utility power company for temporary service as required
- B. Provide temporary power and lighting for all trades that require service during the course of construction.
- 1.16 PERMITS AND INSPECTIONS Contractor shall secure all permits and inspections required. 1.17 RECORD DRAWINGS AND OPERATIONS AND MAINTENANCE MANUALS
- A. Provide record drawings to the Architect at project completion. Drawings shall include all addendum items, change orders, alterations, reroutings, etc.
- Provide Operations and Maintenance Manual for electrical and lighting systems to Owner at project completion. Manual shall include manufacturer's equipment data sheets, specifications, installation instructions, programming procedures, operation instructions for systems, warranty information and recommended schedule for testing and maintenance of equipment.

ELECTRICAL SPECIFICATIONS

MATERIALS - All materials shall be new and of quality as specified on the plans or specifications and must carry the Underwriter's Laboratories approval covering the purpose for which they are used, in addition to meeting all

requirements of the current applicable codes and regulations. 2.2 CONDUIT

- All wiring shall be installed in listed metallic conduit except as permitted below. RGS may be used in all areas. IMC may be used in indoor locations not in contact with earth. EMT may be used in indoor locations not in contact with earth, not in concrete slabs or walls and not subject to damage. PVC may be used in or below concrete and direct buried in earth. Flexible steel conduit shall be used for indoor final connections to mechanical equipment not to exceed 36", and recessed removable fluorescent light fixtures not to exceed 72".
- Liquid-tight flexible steel conduit shall be for outdoor final connections to equipment not to exceed 36".
- B. Fittings and conduit bodies shall be steel, malleable iron or die cast threaded compression ferrule type.
- C. Conduit sizes shall be as required by code and as indicated or specified. D. Schedule 40 PVC conduit shall be permitted underground with proper fittings, all UL approved and with cemented joints. All conduit penetrations through concrete slabs shall be wrapped RGS conduit.
- Type MC cable shall be permitted for indoor branch circuit wiring where concealed in walls and ceilings, with the exception of homeruns, which shall be in conduit as specified. MC cable installation shall comply with NEC Article 330 and other applicable sections of the code. In 120V or 277V single phase circuits, wire colors shall be permitted to be standard black, white and green. Special care shall be taken to align cables parallel and perpendicular to structural elements and for proper cable management.

2.3 OUTLET, PULL AND JUNCTION BOXES

- A. Each switch, light, receptacle or other outlet shall be provided with a code gauge, galvanized steel outlet box. Junction and pullboxes shall be code gauge, galvanized steel. Outlet boxes shall be of the one piece, knockout type, in general 4" square with plaster ring. Plaster rings shall be set to provide not more than 1/8" from wall surface to ring. In no case shall plaster ring project beyond surface of wall. Single gang rings similar to Steel City 52050 shall be used for 4" boxes in unfinished brick. Number 180 boxes may be used for unfinished masonry flush wall outlets. Center all outlet boxes in block course. Where more than one switch is indicated in adjacent locations on the plans the switches shall be ganged together in a single box with a single cover plate.
- Boxes installed in poured cement floors shall be flush type cast iron with watertight gasketed covers, grey metallic finish. Where boxes are installed in floors with tile or carpet floor covering, covers shall be of the recessed type to accommodate the floor covering.
- Boxes installed for the alarm, computer and security system shall be provided with appropriate cover plates.
- D. Boxes for telephone, computer, T.V., fire alarm, security and similar systems shall be minimum 4" square.

nstallations and THHN/THWN, RHW-2 or XHHW-2 for interior installations. B. Conductor sizes shown on the drawings are based on copper wire. Conductors shall be solid for #10 AWG and

Unless otherwise specified, all wire shall be 600V, 90 degree C Type THWN-2, RHW-2 or XHHW-2 for exterior

- smaller and stranded for #8 AWG and larger. C. All branch circuit wiring shall be copper.
- Service and panel feeders 2 AWG and larger may be aluminum, provided the conductor sizes are increased for equal or greater ampacity and equal or less equivalent voltage drop. Increase conduit size as required. Where aluminum wire is used, aluminum conductor material shall comply with N.E.C. 310.106(B)4 and all connections and terminations shall be listed and marked for use with aluminum conductors. If necessary to transition to a connector that is not rated for the size or conductor material, compression type adaptors shall be used with the tool and method indicated by the connector manufacturer.
- The wires shall be marked with color to simplify circuit identification. Unless otherwise required by local ordinances, equipment grounding conductors shall be green, grounded (neutral) wires shall be white (120V) or gray (277V) and ungrounded ("live" or "hot") wires shall be: 120/208 and 120/240 black (Phase A), red (Phase B), and blue (Phase C); 277/480 shall be brown (Phase A), orange (Phase B) and yellow (Phase C). The wire shall not be smaller than 12 AWG unless otherwise indicated.

- Switches: Wall switches shall be specification Grade AC silent type switches 15A, 20A, 120 277 volt. Single pole switches shall be Hubbell 1201, 1221 or equal. Device color shall MATCH EXISTING.
- Receptacles: Shall be specification grade, duplex type, NEMA 5-15R, 15 ampere, 120 volt grounded type. Outlets shall be Hubbell 5262 or equal. Special application receptacles shall be as indicated on plans. Receptacles connected to dedicated circuits shall have an amperage rating of not less than the rating of the overcurrent protection device for the branch circuit. Device color shall MATCH EXISTING.
- C. Weatherproof Receptacles: Shall be Hubbell WP8M with 5262 outlet or equal.
- D. Device plates shall be equal to Sierra smooth-line plastic wall plates. Color shall be MATCH EXISTING.

2.6 LIGHTING FIXTURES

- A. Provide all lighting fixtures, wired and connected. The drawings indicate the fixtures for each location. Provide lamps for all fixtures. Lamps shall be GE, Sylvania or Philips. The lamps shall be by the same manufacturer.
- Verify ceiling construction before ordering recessed units. Provide plaster frames and hangers as required. Verify ceiling construction, architectural sections and details prior to ordering fixture. Provide fixture with appropriate accessories, voltage and ballasts to meet the existing condition.
- C. Adjustable fixtures shall be located and properly aimed as directed by the Architect and to function best.

2.7 SAFETY SWITCHES

A. Safety switches, unless otherwise indicated on the drawings, shall be general duty type, 250 volt, heavy duty type, 600 volt of the number of poles required. Wire terminations shall be listed as suitable for 75 degrees C. Safety switches for air conditioning use shall be of the fusible type where recommended by equipment manufacturer. Fusible switches shall accept class 'R' fuses only and will reject all other types. The switch size shall be as required by code and as indicated on the drawings. Where outside the building, the switches shall be type NEMA 3R weatherproof. All switches shall be lockable.

- A. Fuses shall be of the type, size, and rating as indicated on the drawings.
- B. All fuses shall be by Bussman Mfg. Company, Littelfuse or Mersen. C. Verify fuse and switch requirements with the equipment supplied.

2.9 PANELBOARDS

- A. Circuit breaker type as indicated on drawings. Unless indicated otherwise, all panels shall have panelboard type construction with bolt-on circuit breakers. Panels indicated as loadcenters shall have plug-on circuit breakers. Manufacturers shall be Siemens, Schneider Electric, Eaton or General Electric or equal with voltage, sizes and ratings indicated on drawings.
- B. The circuit breakers shall be operable in any position and be removable from the front of the panelboard without disturbing the adjacent units. Branch breakers shall be of such design that combination of single-pole double-pole and three-pole breakers can be assembled on the same panel. Each branch circuit shall be clearly numbered. Branch and main terminals shall be of the solderless type. Handle ties to form multi-pole breakers
- C. Wire termination for panelboards, loadcenters and circuit breakers shall be listed as suitable for 75 degrees C.
- D. Panelboards and load centers shall be fully rated with available interrupting current (AIC) ratings as scheduled on drawings. All overcurrent protection devices in panelboard shall have a minimum AIC rating equal to the AIC rating of the panelboard. Series rating of equipment and overcurrent protection devices will only be allowed where specifically shown on the drawings.

2.10 MOTOR WIRING

- A. All motors shall be wired to conform with manufacturer's recommendations and with applicable codes. Furnish necessary materials, such as wire, conduit, fittings, etc. required to connect motor. However, motors, controls, etc. shall be furnished by the supplier of the driven equipment. Verify equipment location and sizes with the trade supplying the motor before installing the conduit or outlets.
- B. Use copper wire for motor connections.

2.11 TELEPHONE SYSTEM

- A. Provide a terminal mounting board for the incoming service cable. Terminal board shall be fire rated plywood and sized as indicated on the drawings.
- B. Telephone wall outlets shall consist of standard boxes mounted 18" above the floor unless otherwise indicated. Connect outlets to telephone terminal with separate 3/4" conduit unless otherwise shown on drawings.

2.12 LIGHTING CONTROL

- A. Furnish and install lighting control panels, override switches, time switches, photocells/photo sensors, occupancy/vacancy sensors, dimmers, dimmer switches, relays, and contactors required for lighting control as
- indicated on the drawings. B. Lighting control panels shall be as specified on the drawings. Unless specified otherwise, time switches shall
- be equal to Paragon, General Electric, Tork, or Intermatic and shall have size and number of poles as required. C. Contactors shall be electrically operated and mechanically held having amperage capacity and number of poles and voltage class indicated. Contactors shall be installed in NEMA Type I enclosures for indoor locations and in NEMA Type 3R enclosures for outdoor locations.
- D. Photocells shall be compatible with associated lighting control systems as indicated on the drawings.

2.13 EQUIPMENT IDENTIFICATION

- A. Provide engraved nameplates on all switchboards, generators, transfer switches, motor control centers, panelboards, transformers, safety switches, etc. indicating equipment designation (or designation of equipment
- B. Equipment designations shall be 1/4" lettering and system voltage shall be 1/8" lettering (minimum).
- C. Nameplates shall be securely attached to equipment with rivets or screws.

PART 3 EXECUTION

- EXCAVATION, CUTTING AND FITTING Perform the excavation, cutting, fitting, repairing and finishing of the work necessary for the installation of the equipment of this Section. However, no cutting of the work of other trades or of any structural member shall be done without the consent of the Architect.
- 3.2 REMODEL AND DEMOLITION
- Remodel and demolition work shall be scheduled and coordinated with the owner for temporary loss of service to the facility of portions of the facility as required. All existing walls, floors, etc. affected by the removal of existing equipment or installations shall be patched, repaired and finished to match adjacent. All existing fire rated assemblies affected by the demolition shall be repaired with fire stoppings and caulkings as required to maintain the integrity of fire rated constructions.
- B. Existing equipment shown on the electrical plans is based on available information at the time of design and shall be verified by the contractor. All discrepancies between plans and actual field conditions shall be reported to the engineer in writing prior to bid
- C. Existing electrical installations in walls and building elements that are to be demolished or changed shall be modified or relocated as necessary. Refer to architectural plans for identification of affected building elements and field verify existing electrical installations in these areas prior to bid.
- Existing light fixtures that are to be reused shall be cleaned and relamped with new lamps. Existing emergency battery packs for exit signs and emergency lights shall be replaced with new. Normal ballasts that are not in working order shall be replaced with new ballast that is compatible with existing fixtures. E. All existing wiring devices and communication outlets that are to remain or to be relocated shall be replaced
- shall field verify existing types and quantities prior to bid. Repair existing equipment and/or installations that are identified for reuse that is damaged or no longer functioning. Where such repairs are not possible or impractical contractor shall provide replacement as

with new wiring devices and covers to match new devices being installed as part of this project. Contractor

3.3 CONDUIT, FITTINGS AND SUPPORTS

D. Penetrations through floor slabs shall be wrapped rigid steel.

- A. Where the conduit enters outlet boxes, fixtures or cabinets, firmly fasten by double locknuts and bushings. Firmly fasten conduit to the building construction. Run exposed conduit parallel to the building lines, supported by appropriate hangers (Unistrut, T&B or Appleton).
- B. Cover metallic conduit in contact with earth or fill with polyethylene tape spiral wrapped, 1/2" lapped to provide double thickness. Tape shall be Scotch No. 50 tape. Conduit and ducts not under buildings and feeder ducts shall be installed per N.E.C. 300.5, except that the bends in conduit larger than 1" in diameter shall be made with galvanized steel conduit treated as noted above. Make joints with compound to be watertight.
- C. All empty conduit systems shall have a 200 pound test pull cord to facilitate installation of future wire.

- Conduits and outlets shall be concealed within the building structure, except that certain motor and lighting feeder conduits may be run exposed in certain areas as indicated on the drawings. Conduit shown to be
- installed in cabinets, counters, and casework shall be run as directed by the Architect. Flexible metallic and non-metallic conduit systems shall have a code sized copper ground conductor. Increase
- conduit size as required.
- G. Conduit penetrating through roof shall be by a method approved by roofing manufacturer to maintain the warranty of the roof. Installation shall be watertight.
- H. Conduits shall be routed surface on the structure, parallel and perpendicular to the structure.
- 3.4 OUTLET AND JUNCTION BOXES Outlet and junction boxes installed on opposite sides of walls shall have a minimum of 6 inch horizontal separation in non-rated walls and 24 inch horizontal separation in acoustic and/or fire rated walls. Where such separation is not possible, provide listed sound putty pad (acoustic walls) or fire rated putty pad (fire rated walls). The contractor shall coordinate the junction box size and the derating of conductors when using an insert type putty pad within the interior of the box.

3.5 WIRE

- No wire shall be installed in the conduit system until the conduit system is complete. Use Mineralac No. 100 or equivalent as a lubricant to facilitate the installation of the conductors in the conduit system.
- Splices in exterior pullboxes and manholes shall be waterproof using "SCOTCHCAST" splice kit or approved equal. Seal ends of conduits and ducts with "DUCTSEAL" or approved equal.

3.6 SYSTEM GROUNDING

- Grounding shall comply with requirements of Article 250. All exposed noncurrent-carrying metallic parts of electrical equipment, metallic raceway systems, metallic cable armor, grounding conductor of nonmetallic sheathed cables, grounding conductor in nonmetallic raceways, and grounded conductors of the wiring system shall be grounded.
- The grounded conductor (neutral) of the wiring system shall be connected to the system grounding conductor at a single place in each system by removable bonding jumpers, sized according to the applicable provisions of the National Electrical Code. The grounded conductor (neutral) to the grounding conductor connection shall be located in the enclosure for the system's overcurrent protection or where otherwise indicated on the plans or specifications.
- Ground bus separate from the neutral bus shall be provided in all switchboards and panelboards. Ground bus
- shall be retorqued (checked) prior to energizing equipment per manufacturer's recommendations. Ground buses and neutral buses in all distribution panels, switchboards, panelboards and those provided in any equipment shall be isolated except where required to be connected as specified above for the service
- entrance and in transformer terminal compartments. When indicated on the drawings, equipment grounding conductors shall be extended from the ground bus in the distribution equipment to the receptacle, fixture or device lugs where they are provided. When not provided they shall be connected to equipment enclosures. The connections shall be arranged such that removal of the receptacle, the equipment ground conductors, or the ground jumpers from ground busing shall not affect the
- Raceways may be used as a grounding conductor for power and lighting circuits unless specifically shown otherwise. Flexible metal and nonmetallic conduit shall have a separate code sized green ground wire installed
- in the conduit to insure a continuous grounding path.
- G. In inaccessible locations make connections by exothermic weld process. H. In accessible locations connections shall be made with bolted through, approved solderless bronze grounding
- Provide inter-system bonding terminal with #6 AWG copper conductor to the grounding electrode conductor or grounded bus in the main service per NEC 250.94. Inter-system bonding terminal shall be 2"x1/4" ground bar mounted outside of service equipment enclosure. Where possible, the bonding terminal shall be mounted to service or meter enclosure. Where the installation of the bonding terminal on the service or meter enclosure will interfere with the opening of the enclosure, operation or maintenance of the equipment the bonding terminal shall be mounted immediately adjacent to the service or meter enclosure on insulated stand-offs. For exterior installations the bonding terminal shall be installed in a lockable NEMA 3R enclosure.

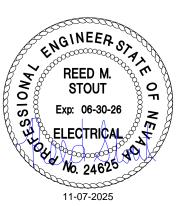
3.7 PANELBOARDS

- Provide a typewritten circuit index behind clear plastic cover on inside of door. Information shall include room and type of load served. All circuit breakers shall be identified, including spares. Index card frame shall be
- Where panelboards are installed flush with the walls, extend empty conduits from the panelboard to an accessible space above or below. Provide 3/4" (minimum size) conduit for every three single spare circuit breakers or space or equivalent multi-pole arrangement, or fraction thereof, but not less than two conduits for each panelboard.
- 3.8 EXTERIOR EQUIPMENT All exterior electrical equipment shall be painted to march the building exterior unless
- 3.9 SATISFACTION Work shall be performed in a workmanlike manner to the satisfaction of the Architect and Owner. 3.10 CLEAN-UP - Keep the premises free from accumulation of waste materials, or rubbish caused by employees or work under this division of the specifications. At the completion of the work, remove all surplus materials, tools, etc., and leave the premises "broom-clean".



Las Vegas, NV 89118

T. 702-362-9200 www.NV5.com NV5 Project # - 25-0004625





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REVISIONS

IECC LIGHTING COMPLIANCE



COMcheck Software Version 4.1.5.5

nterior Lighting Compliance Certificate

Project Information

111 W. Front Street

Elko, NV 89801

Energy Code: 2018 IECC
Project Title: Food Bank of Northern Nevada
Project Type: Alteration

Construction Site:

Owner/Agent:

Designer/Contractor: Scott Rutledge NV5 5155 W. Patrick Ln.

Las Vegas, NV 89118

234

Total Proposed Watts = 2536

Allowed Interior Lighting Power

Floor Area (ft2)			owed Watts (B X C)
12000	0.48		5760
То	tal Allowed W	/atts =	5760
В	С	D	E
Lamps/ Fixture	# of Fixtures	Fixture Watt.	(C X D)
	Floor Area (ft2) 12000 To B Lamps/	Floor Area (ft2) Allowed Watts / ft 12000 0.48 Total Allowed W B C Lamps/ # of	Floor Area (ft2) Watts / ft2 12000 0.48 Total Allowed Watts = B C D Lamps/ # of Fixture

Interior Lighting PASSES

Interior Lighting Compliance Statement

Bank.cck

LED 1: A, AE: 8' Lensed Strip Light: Other: LED 2: B, BE: 4' Lensed Strip Light: Other:

LED 3: C: 2' Wall Mounted Light: Other: LED 4: DE: 6" Recessed Downlight: Other:

Compliance Statement: The proposed interior lighting alteration project represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed interior lighting systems have been designed to meet the 2018 IECC requirements in COMcheck Version 4.1.5.5 and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Name - Title Signature Date

Project Title: Food Bank of Northern Nevada Report date: 08/21/25

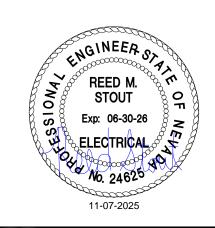
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			LIGHT FIXTU	RE SCHEDULE						
TYPE	DESCRIPTION	MOUNTING	MANUFACTURER	MODEL	TYPE	COLOR	LUMENS	VOLTS	WATTS	NOTES
А	8' LENSED STRIP LIGHT	SUSPENDED	METALUX	8TSNX-82SL-LN-UNV-L835-CDI-FKO	LED	3500K	8053	120	52	SEE NOTE 11.
AE	8' LENSED STRIP LIGHT - EMERGENCY	SUSPENDED	METALUX	8TSNX-82SL-LN-UNV-L835-CDI-EL14W-FKO	LED	3500K	8053	120	52	SEE NOTE 11.
В	4' LENSED STRIP LIGHT	SUSPENDED	METALUX	4SNX-41SL-LN-UNV-L835-CDI-FKO	LED	3500K	4209	120	26	SEE NOTE 11.
BE	4' LENSED STRIP LIGHT - EMERGENCY	SUSPENDED	METALUX	4SNX-41SL-LN-UNV-L835-CDI-EL7W-FKO	LED	3500K	4209	120	26	SEE NOTE 11.
С	2' WALL LED LIGHT	SURFACE	METALUX	2SWLED-20SL-LW-UNV-L835-CD1-U	LED	3500K	1987	120	20	SEE NOTE 11.
DE	6" RECSSED DOWNLIGHT - EMERGENCY	RECESSED	HALO COMMERCIAL	HC615D010 HM60525835 61MDC	LED	3500K	1700	120	14.5	
WE	WALL MOUNT. EMERGENCY. INTEGRAL MOTION & DAYLIGHT SENSOR	SURFACE	LUMARK	AXCS2A WLSXX CBP	LED	4000K	2561	120	25	
EX	EDGE LIT EXIT SIGN SINGLE FACE	SURFACE	SURELITES	EUX71R	LED	-	INC	UNV	5	RED STROKE

GENERAL NOTES:

- 1. FIXTURES SPECIFIED WITH CATALOG NUMBERS ARE THE BASIS OF DESIGN AND ESTABLISH QUALITY LEVEL FOR EQUAL FIXTURES FROM MANUFACTURERS LISTED WITHOUT CATALOG NUMBERS. WHERE ONLY ONE MANUFACTURER LISTED, THERE SHALL BE NO SUBSTITUTION.
- 2. VERIFY EXACT MOUNTING CONDITIONS AND PROVIDE APPROPRIATE ACCESSORIES AND HARDWARE TO ACCOMMODATE REQUIREMENTS.
- 3. FIXTURE TYPE INDICATED ONCE ON A CONTINUOUS ROW SHALL BE TYPICAL OF ALL FIXTURES IN THE ROW UNLESS NOTED OTHERWISE.
- 4. CONTINUOUS ROWS OF FIXTURES SHALL BE PROVIDED WITH ALL NECESSARY HARDWARE AND FILLERS TO PROVIDE THE EXACT LENGTHS AS INDICATED ON THE PLANS. FIXTURES IN SOFFITS SHALL BE CONTINUOUS END TO END.
- 5. FIXTURES WITH MAXIMUM THD OF 15%, PF GREATER THAN 90%. DRIVERS SHALL BE UL LISTED.
- 6. EFFICIENCY SHALL BE GREATER THAN THAT REQUIRED TO ENSURE THAT THE VALUE LISTED FOR INPUT WATTS IS NOT EXCEEDED.
- 7. MINIMUM CRI SHALL BE 80.
- 8. PROVIDE EXIT SIGNS WITH ARROWS AND MOUNTING ACCESSORIES AS INDICATED ON THE PLANS.
- 9. DRIVERS SHALL HAVE FULL RANGE DIMMING CAPABILITIES FROM 10% TO 100% UNLESS NOTED OTHERWISE.
- 10. BATTERY BACKED DRIVERS SHALL PROVIDE A MINIMUM OF 50% OF THE FIXTURE LUMENS FOR 90 MINUTES. DRIVERS SHALL UL LISTED AND HAVE A 5 YEAR WARRANTY.
- FIXTURE SPECIFIC NO
- 11. REFER TO ARCHITECTURAL PLANS FOR EXACT MOUNTING HEIGHT/SUSPENSION LENGTH.
- 12. AREA LIGHT TO BE SUPPLIED WITH MOTION SENSOR FOR DIMMING OPERATION FOR MOUNTING HEIGHT SPECIFIED. PROVIDE WITH PROGRAMMING REMOTE CONTROL (ONE PER PROJECT) FOR OWNER AT PROJECT CLOSEOUT.





NV5 Project # - 25-0004625

PROJECT NAME



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LECTRICAL IECC AND SCHEDULES

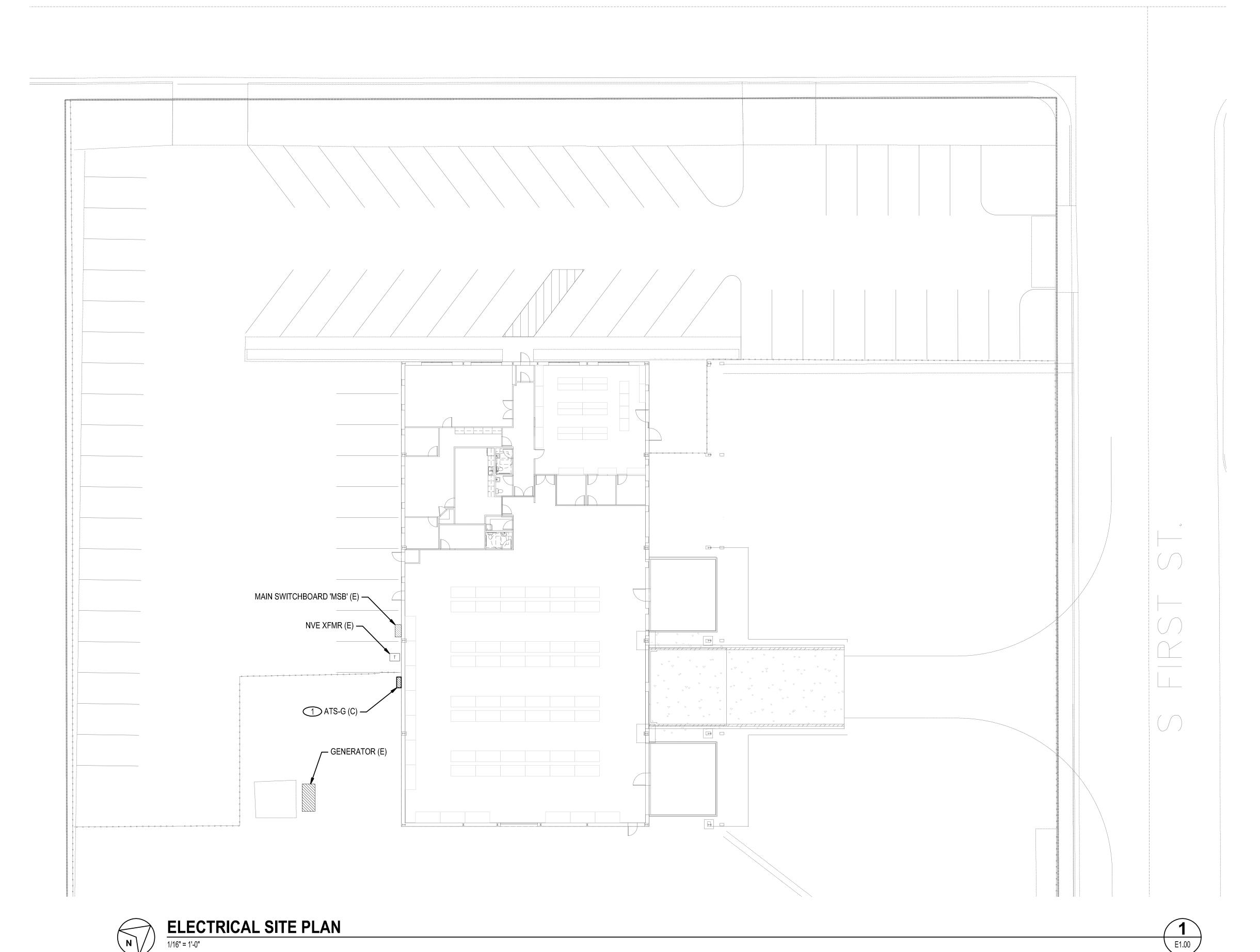
REVISIONS

DATE

11.06.2025

SHEET NUMBER

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DEMOLITION & REMODEL NOTES

- (E) EXISTING DEVICE OR FIXTURE TO REMAIN. SHOWN FOR REFERENCE ONLY. RECIRCUIT TO NEW CIRCUIT AND CONTROL DEVICES ONLY IF SPECIFICALLY SHOWN.
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SHEET NOTES

 VERIFY ALL UTILITY LOCATIONS AND REQUIREMENTS WITH UTILITY CO. INSTALLATION DRAWINGS FOR THIS PROJECT PRIOR TO ANY WORK.

2. REFER TO SINGLE LINE DIAGRAM FOR ADDITIONAL INFORMATION.

KEY NOTES

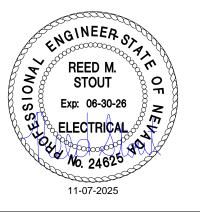
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1. REPLACE EXISTING AUTOMATIC TRANSFER SWITCH WITH NEW ASCO 300 SERIES NEMA 3R AUTOMATIC TRANSFER SWITCH. EXISTING CONDUITS AND CONDUCTORS MAY BE REUSED WHERE IN SUITABLE CONDITION. MATCH EXISTING CONDUIT AND CONDUCTORS WHERE NECESSARY TO EXTEND CONNECTIONS. VERIFY EXACT LOCATION WITH OWNER. REFER TO SINGLE LINE DIAGRAM FOR ADDITIONAL INFORMATION.

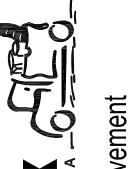


5155 W Patrick Lane Las Vegas, NV 89118

T. 702-362-9200 www.NV5.com NV5 Project # - 25-0004625



PROJECT NAME



Tenant Improvement 111 W. Front Street

SHEET NAME

FI ECTRICAL SITE PLAN

REVISIONS

DATE

11.06.2025

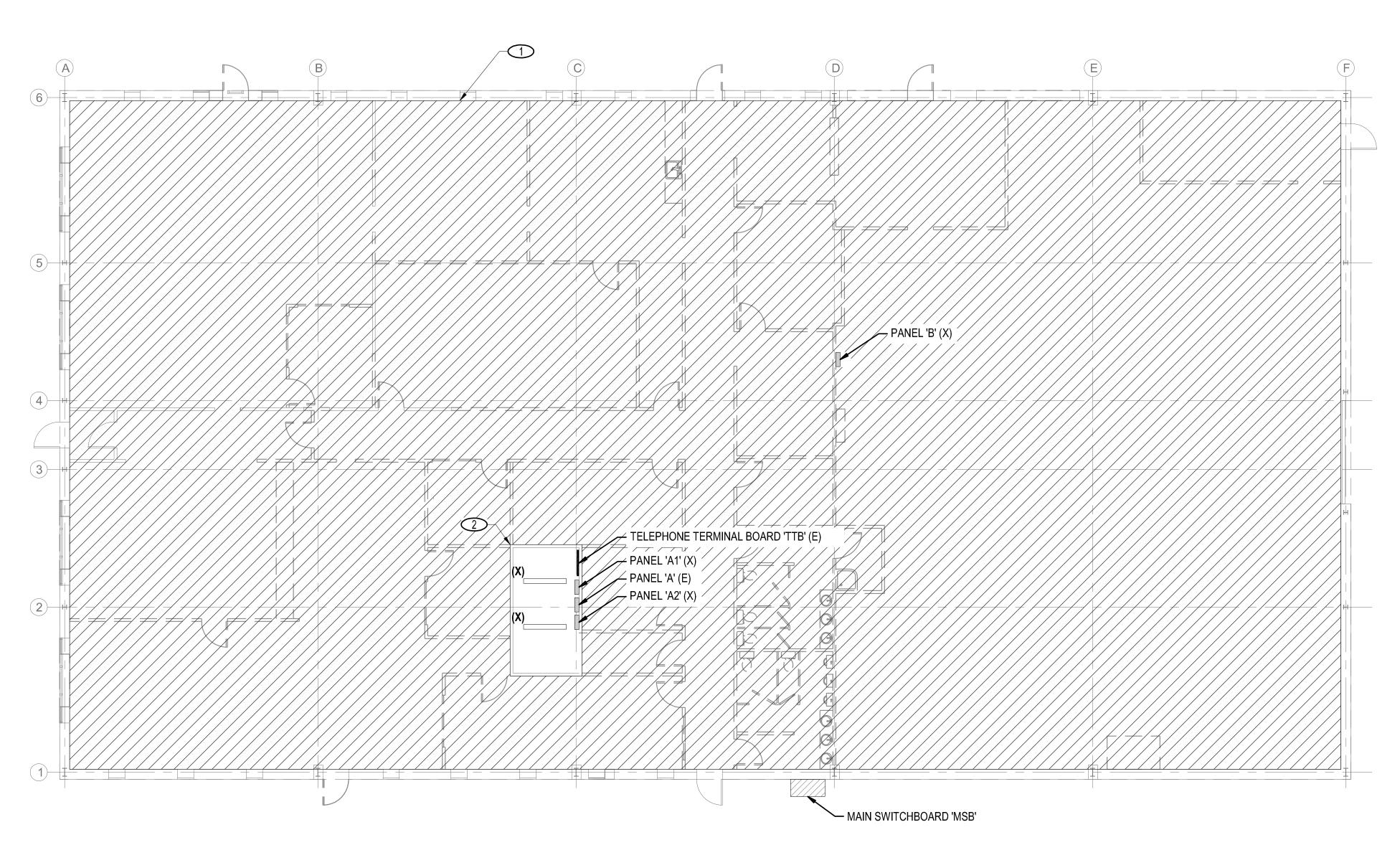
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DEMOLITION & REMODEL NOTES

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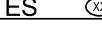


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SHEET NOTES

- 1. ALL DEMOLITION WORK SHALL BE COORDINATED WITH OWNER FOR TEMPORARY LOSS OF SERVICE TO FACILITY OR PORTIONS OF FACILITY AS REQUIRED. ALL EXISTING WALLS, FLOORS, ETC. AFFECTED BY THE REMOVAL OF EXISTING EQUIPMENT OR INSTALLATIONS SHALL BE PATCHED, REPAIRED AND FINISHED TO MATCH ADJACENT. ALL EXISTING FIRE RATED ASSEMBLIES AFFECTED BY THE DEMOLITION SHALL BE REPAIRED WITH FIRE STOPPINGS AND CAULKINGS AS REQUIRED TO MAINTAIN THE INTEGRITY OF FIRE RATED CONSTRUCTIONS.
- 2. EXISTING EQUIPMENT SHOWN ON THIS PLAN IS BASED ON AVAILABLE INFORMATION AND SHALL BE VERIFIED BY THE CONTRACTOR. ALL DISCREPANCIES BETWEEN PLANS AND ACTUAL FIELD CONDITIONS SHALL BE REPORTED TO THE ENGINEER IN WRITING PRIOR TO BID.
- EXISTING ELECTRICAL INSTALLATIONS IN WALLS AND BUILDING ELEMENTS THAT ARE TO BE DEMOLISHED OR CHANGED SHALL BE MODIFIED OR RELOCATED AS NECESSARY. REFER TO ARCHITECTURAL PLANS FOR IDENTIFICATION OF BUILDING ELEMENTS AND FIELD VERIFY EXISTING ELECTRICAL INSTALLATIONS IN THESE AREAS PRIOR TO BID.
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 THAT ARE TO REMAIN OR BE RELOCATED SHALL BE REPLACED WITH
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 VERIFY EXISTING TYPES AND QUANTITIES PRIOR TO BID.

KEY NOTES



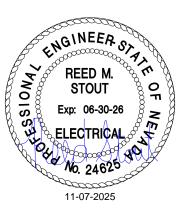
- 1. EXTENTS OF AREA TO BE DEMOLISHED. ALL LIGHTING FIXTURES AND LIGHTING CONTROLS IN THIS AREA TO BE RETURNED TO OWNER OR DISPOSED OF (AS DIRECTED BY OWNER). ALL WIRING DEVICES CONDUITS AND CONDUCTORS IN WALLS TO BE DEMOLISHED TO BE REMOVED. ALL UNUSED CONDUCTORS IN THIS AREA SHALL BE REMOVED FROM CONDUITS AND CONDUITS SHALL BE ABANDONED IN PLACE.
- 2. EXISTING ELECTRICAL EQUIPMENT AND TELEPHONE TERMINAL BOARD IN THIS ROOM TO REMAIN AS IS. ALL LIGHTING FIXTURES AND LIGHTING CONTROLS IN THIS AREA TO BE RETURNED TO OWNER OR DISPOSED OF (AS DIRECTED BY OWNER).



5155 W Patrick La

T. 702-362-9200 www.NV5.com NV5 Project # - 25-0004625

Las Vegas, NV 89118



PROJECT NAME



Tenant Improvement 111 W. Front Street Elko. Nevada

SHEET NAME

LECTRICAL DEMO PLAN

REVISIONS

DATE

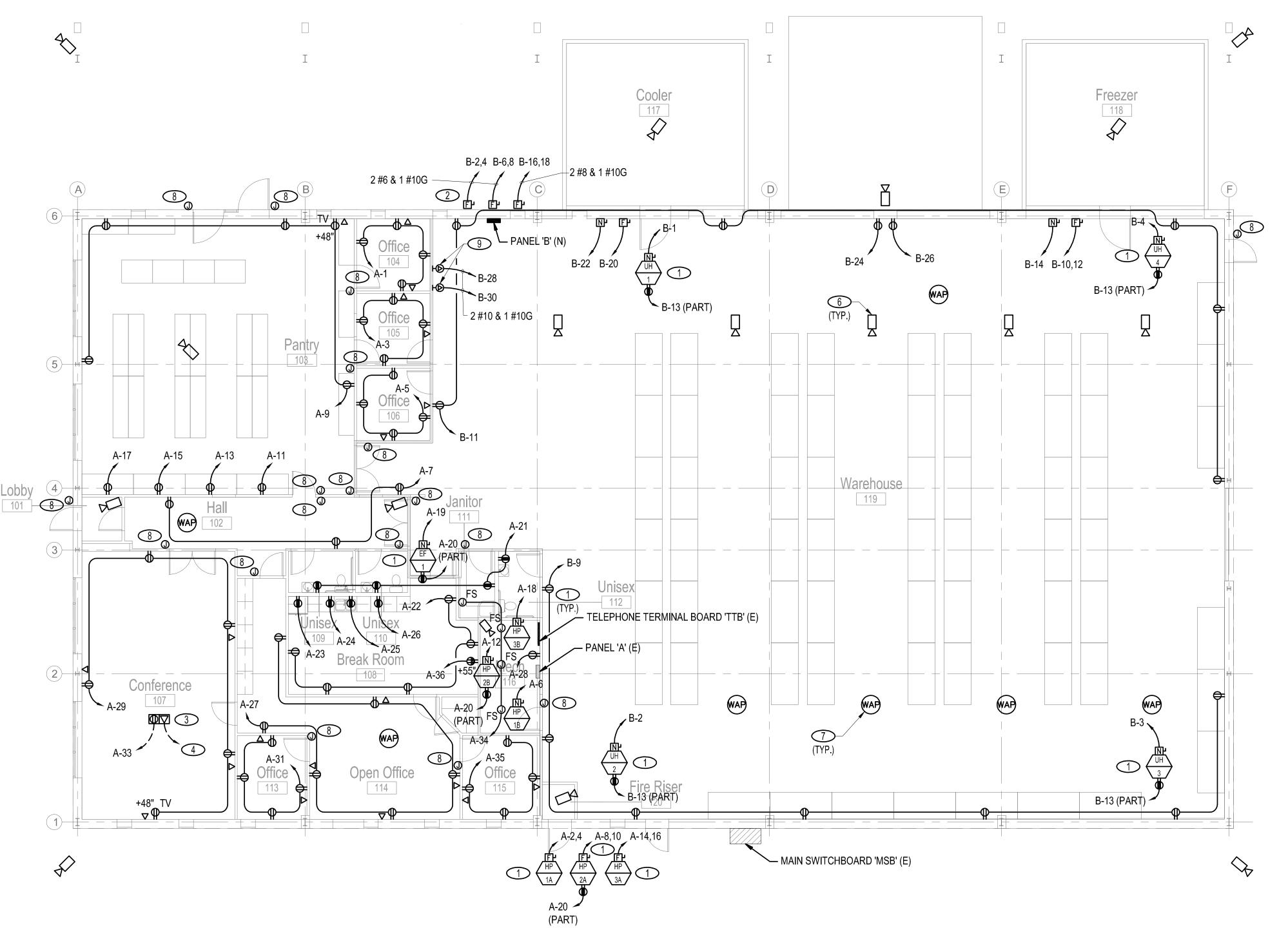
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SHEET NUMBER

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DEMOLITION & REMODEL NOTES

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SHEET NOTES

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- 6. CONTRACTOR SHALL TAKE CARE TO PROTECT IN PLACE ALL INSTALLATIONS RUNNING THROUGH THIS TENANT SPACE THAT SERVE HOUSE/COMMON AREA EQUIPMENT, INSTALLATIONS THAT RUN THROUGH SPACE FOR TENANTS ABOVE OR BELOW AND INSTALLATIONS THAT SERVE EQUIPMENT WITHIN THIS TENANT SPACE THAT IS IDENTIFIED AS EXISTING TO REMAIN. WHERE SUCH INSTALLATIONS RUN THROUGH WALLS THAT ARE TO BE DEMOLISHED CONTRACTOR SHALL BE RESPONSIBLE TO IDENTIFY THE INSTALLATIONS AND NOTIFY ENGINEER IN WRITING TO DETERMINE WHAT MODIFICATIONS MAY BE REQUIRED.

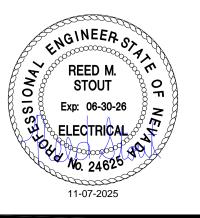
KEY NOTES

- REFER TO MECHANICAL EQUIPMENT CONNECTION SCHEDULE ON SHEET E5.00 FOR DISCONNECTING MEANS, CONDUIT, CONDUCTOR, AND CONNECTION REQUIREMENTS.
- 2. PROVIDE NEMA 3R DISCONNECT FOR CONDENSING UNITS FOR COOLER AND FREEZER. COORDINATE EXACT LOCATION WITH ARCHITECT AND EQUIPMENT VENDOR. FUSE PER MANUFACTURER'S RECOMMENDATION.
- 3. PROVIDE FLUSH RECESSED FLOOR BOX FOR POWER. FLOOR BOX SHALL BE STEEL CITY CAT# 600-SC WITH P60-DS SERIES BRASS COVER OR EQUAL. FLOOR BOX TO BE INSTALLED FLUSH WITH FINISHED FLOOR WITH ALL DEVICES INDICATED ON PLANS. PROVIDE ALL ACCESSORIES, MOUNTING CLIPS, HARDWARE, ETC. REQUIRED FOR A COMPLETE INSTALLATION.
- 4. 3/4"EC TO EXISTING TELEPHONE TERMINAL BOARD 'TTB'.
- 5. CONNECTION TO FIRE/SMOKE DAMPER. COORDINATE REQUIREMENTS WITH FIRE ALARM SYSTEM AND MECHANICAL CONTROL DIAGRAMS.
- 6. LOCATION OF CAMERA. VERIFY ROUGH-IN LOCATION AND REQUIREMENTS WITH OWNER'S I.T. VENDOR.
- 7. LOCATION OF CEILING MOUNTED WIRELESS ACCESS POINT. VERIF ROUGH-IN LOCATION AND REQUIREMENTS WITH OWNER'S I.T. VENDOR.
- ACCESS CONTROL DEVICE. COORDINATE EXACT ROUGH IN LOCATION AND REQUIREMENTS WITH OWNER'S SECURITY VEND
- NEMA L6-30 RECEPTACLE FOR FORKLIFT CHARGER CABLE, VERIFY WITH FORKLIFT MANUFACTURER.

CONSULTANT

5155 W Patrick Lane Las Vegas, NV 89118

T. 702-362-9200 www.NV5.com NV5 Project # - 25-0004625



PROJECT NAME



enant Improvement 111 W. Front Street

ECTRICAL POWER PLAN

REVISIONS

DATE

11.06.2025

SHEET NUMBER

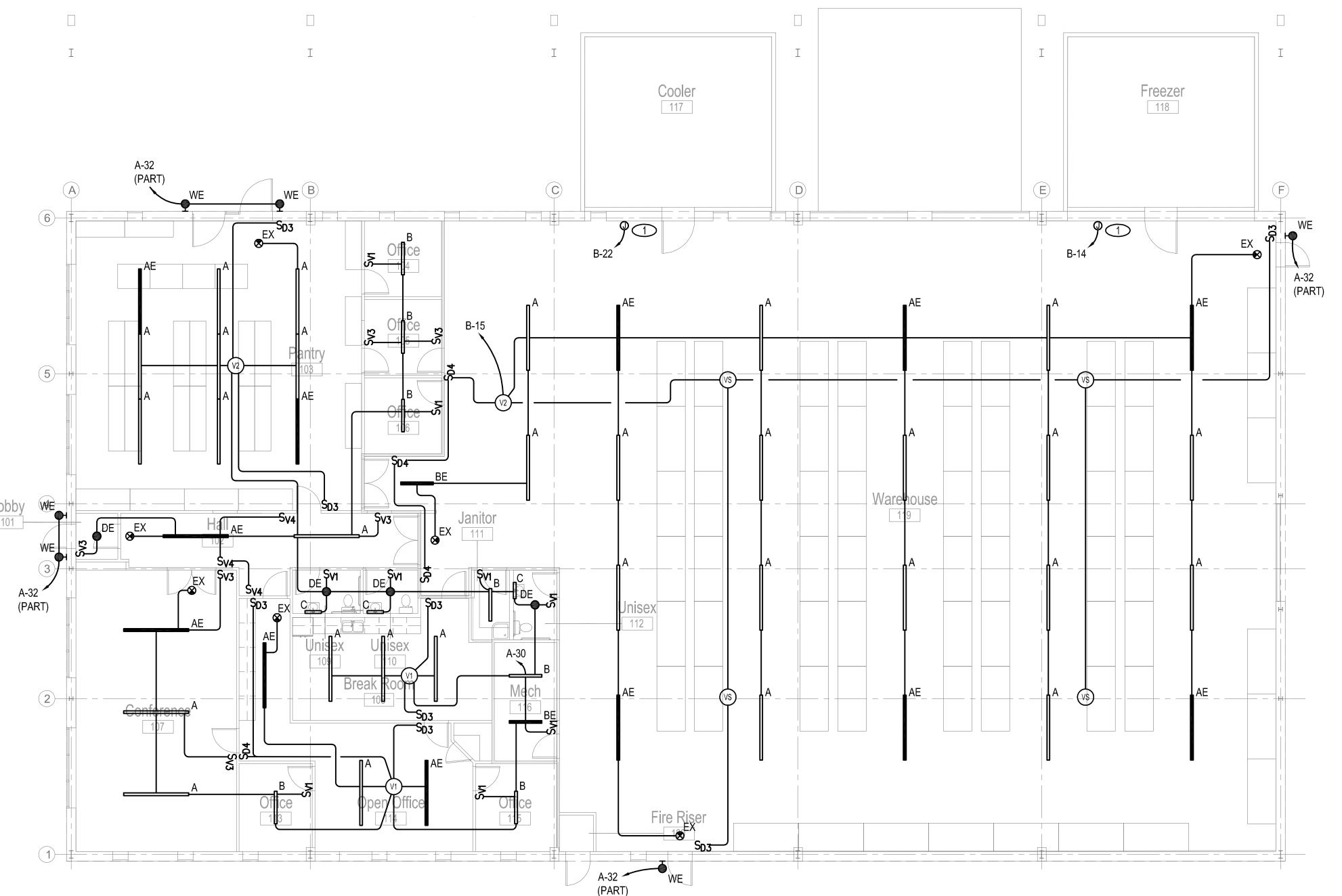
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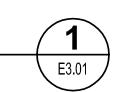
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ELECTRICAL LIGHTING PLAN



SHEET NOTES

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KEY NOTES



1. COORDINATE CONNECTION OF WALK-IN UNIT LIGHTING WITH EQUIPMENT VENDOR.

CONSULTANT

Las Vegas, NV 89118

T. 702-362-9200

www.NV5.com

NV5 Project # - 25-0004625

REED M.

STOUT

PROJECT NAME

REVISIONS

DATE

11.06.2025

SHEET NUMBER

E3.01

SERVICE VOLTAGE		208				
NUMBER OF PHASES		3				
				DEMAND	LOAD W	//
LOAD DESCRIPTION	QUANTITY	LOA	'D	FACTOR	DEMAN	D
PANEL LOADS						
PANEL A	1	38236 \	VA	100%	38236	٧A
PANEL B	1	42390 \	VA	100%	42390	٧A
GAS PUMP	1	6485 \	VA	100%	6485	V۵
TOTAL LOAD (VA) =	:	87111 N	VA			
TOTAL LOAD (AMPERES) =	•	242	AMPS			
SERVICE SIZE (AMPERES) =	=	400	AMPS			

THREE PHASE SHORT CIRCUIT AND VOLTAGE DROP

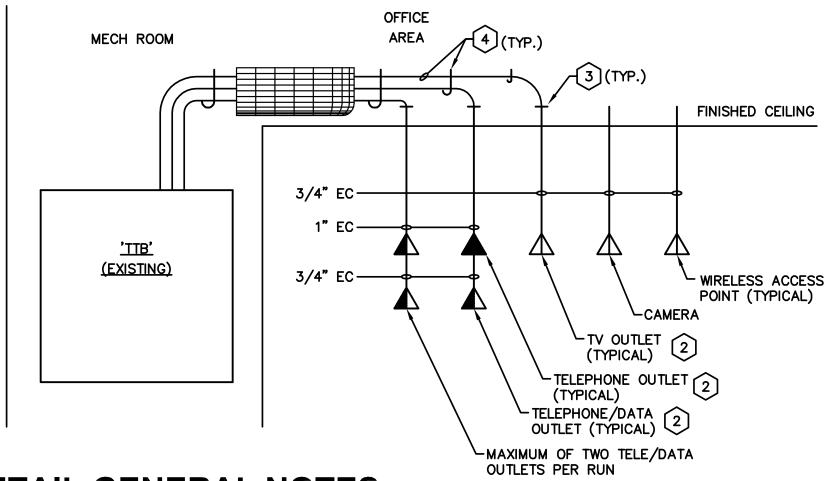
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FOOD BANK OF NORTHERN NEVADA TI

PROJ NUMBER: 25-0004625

Joseph G. Crapo, P.E.

DATE:	7/28/25				LAST UPDATED ON	8/21/25 3:39 PM
DISTRIBUTION		FEEDER	NUMBER OF	FEEDER	AVAILABLE	
POINT		SIZE	CONDUCTORS	LENGTH	FAULT CURRENT	VOLTAGE DROP
ID	LOCATION	(AWG)	PER PHASE	(FEET)	(ISC) (AMPS)	(VD)
F1	MAIN SERVICE	#3/0	2	150	16892	0.00%
F2	PANEL A	#3/0	1	50	10915	0.62%
F3	PANEL B	#3/0	1	130	6969	1.62%



DETAIL GENERAL NOTES

- 1. ALL CONDUIT TERMINATIONS SHALL HAVE INSULATED BUSHINGS.
- 2. ALL COMMUNICATIONS CABLES SHALL BE PLENUM RATED.

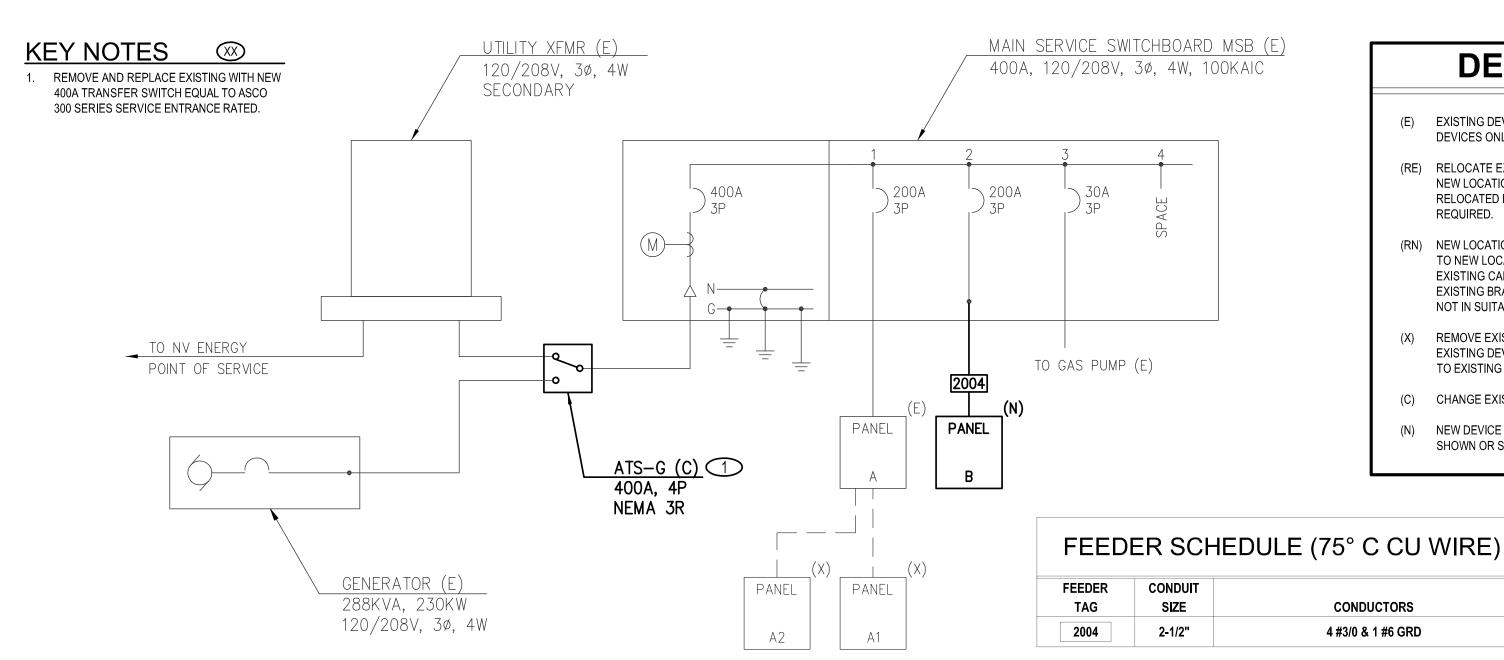
DETAIL KEYNOTES

- PROVIDE INTERSYSTEM BONDING TERMINATION (12"X2"X1/4" COPPER GROUND TERMINAL BAR ON INSULATED STANDOFFS) AT MAIN ELECTRICAL SERVICE (EXTERNAL TO ELECTRICAL ENCLOSURES). TERMINAL BAR SHALL BE INSTALLED INSIDE ADJACENT WALL WITH 6"X6" ACCESS PANEL COVER FOR INSPECTION OF CONNECTIONS. PROVIDE (1) 3/4"C, 1 #6 CU TO MAIN SERVICE GROUNDING ELECTRODE CONDUCTOR. PROVIDE (3) 1/2" EMPTY CONDUITS FROM TERMINAL BAR TO ACCESSIBLE SPACE IN CEILING WITHIN THE BUILDING. INSTALLATION SHALL COMPLY WITH NEC 250.94.
- 2. SEE ELECTRICAL PLANS FOR COMMUNICATION OUTLET TYPES, QUANTITIES AND LOCATIONS.
- STUB CONDUIT ABOVE CEILING.
- 4. CABLING TO BE SUSPENDED FROM STRUCTURE ABOVE CEILING USING CADDY "CAT-LINKS J-HOOKS", SIZED PER MANUFACTURER RECOMMENDATIONS FOR NUMBER OF CABLES, SPACED AT NO MORE THAN 5' INTERVALS MAXIMUM OR AS REQUIRED TO MAINTAIN LESS THAN 12" OF VERTICAL CABLE SAG BETWEEN SUPPORTS. IN AREAS WHERE NO CEILING IS INSTALLED (OPEN TO STRUCTURE ABOVE) PROVIDE CONDUIT TO TELEPHONE ROOM, CABLE TRAY OR TO CONCEALED SPACE ABOVE CEILING IN ADJACENT ROOM. ALL COMMUNICATION SYSTEM CABLES TO BE CONCEALED ABOVE CEILING OR IN CONDUIT EXCEPT FOR THE TELEPHONE ROOM. COORDINATE NUMBER OF CABLES AND ROUTING WITH OWNER PRIOR TO INSTALLATION.

COMMUNICATION RISER DIAGRAM

SCALE: NONE





LOADS (VA)

PERCENT BALANCE

LOAD ABBREVIATIONS AND DEMAND FACTORS:

C=CONTINUOUS LOAD=125%, K=KITCHEN EQUIP.=100%

L=LIGHTING LOAD=125%, LM=LARGEST MOTOR=125%,

P=PANEL LOAD=100%, R=RECEPTACLE LOAD=100%

M=MOTOR LOAD=100%, N=NON-CONTINUOUS LOAD=100%

DEMOLITION & REMODEL NOTES

- (E) EXISTING DEVICE OR FIXTURE TO REMAIN. SHOWN FOR REFERENCE ONLY. RECIRCUIT TO NEW CIRCUIT AND CONTROL DEVICES ONLY IF SPECIFICALLY SHOWN.
- (RE) RELOCATE EXISTING DEVICE OR FIXTURE. LOCATION SHOWN IS EXISTING (FIELD VERIFY). REFER TO NEW PLAN FOR NEW LOCATION AND CONNECTION REQUIREMENTS. EXISTING DEVICES OR FIXTURES CONNECTED IN SERIES WITH RELOCATED DEVICE OR FIXTURE SHALL BE RECONNECTED TO EXISTING BRANCH CIRCUIT AND CONTOL DEVICES AS
- (RN) NEW LOCATION OF RELOCATED DEVICE OR FIXTURE. EXTEND CONDUIT AND CONDUCTORS FROM EXISTING LOCATION TO NEW LOCATION AS REQUIRED OR AS SHOWN. NEW COMMUNICATION CABLING SHALL BE PROVIDED WHERE EXISTING CABLING IS NOT IN SUITABLE CONDITION FOR REUSE (NO SPLICES ALLOWED IN COMMUNICATION CABLING). EXISTING BRANCH CIRCUIT CONDUCTORS SHALL BE REPLACED WITH NEW WHERE THE EXISTING CONDUCTORS ARE NOT IN SUITABLE CONDITION FOR REUSE.
- (X) REMOVE EXISTING DEVICE SHOWN. REMOVE CONDUCTORS BACK TO NEXT DEVICE OR TO PANELBOARD AS REQUIRED. EXISTING DEVICES OR FIXTURES CONNECTED IN SERIES WITH REMOVED DEVICE OR FIXTURE SHALL BE RECONNECTED TO EXISTING BRANCH CIRCUIT AND CONTOL DEVICES AS REQUIRED.
- (C) CHANGE EXISTING DEVICE TO NEW DEVICE SHOWN.
- (N) NEW DEVICE OR FIXTURE TO BE PROVIDED AND INSTALLED AS SHOWN. PROVIDE CONDUIT AND CONDUCTORS AS SHOWN OR SPECIFIED.

LIGHT LINES ON SINGLE LINE DIAGRAM INDICATE EXISTING EQUIPMENT TO REMAIN AND BOLD LINES INDICATE NEW EQUIPMENT OR INSTALLATIONS TO BE PROVIDED AS PART OF THIS PROJECT. CONTRACTOR SHALL FIELD VERIFY THAT EQUIPMENT RATINGS, CONNECTIONS AND CONFIGURATIONS ARE ACCURATE PRIOR TO BID AND SHALL NOTIFY ENGINEER IN WRITING OF ANY DISCREPANCIES BETWEEN DESIGN DRAWINGS AND ACTUAL FIELD CONDITIONS.



10/29/25 4:14 PM PANELBOARD

BUS RATING (AMPS):

CIRCUIT DESCRIPTION

OFFICE 104 RECEPTS

OFFICE 105 RECEPTS

OFFICE 106 RECEPTS

HALL RECEPTS PANTRY RECEPTS

1 PANTRY FREEZER 3 PANTRY FRIDGE

5 PANTRY FRIDGE

7 PANTRY FRIDGE

1 BATHROOM RECEPTS 23 BREAK ROOM FRIDGE

25 SINK GARBAGE DISPOSAL

27 OPEN OFFICE RECEPTS

31 OFFICE 113 RECEPTS

33 CONFERENCE TABLE 35 OFFICE 115 RECEPTS

37 EXTERIOR LTS 39 EXTERIOR LTS

41 SITE POLE LTS

SPECIAL PROVISIONS:

PANEL NOTES:

MIN. AIC RATING:

VOLTS:

SINGLE LINE DIAGRAM

 A NEMA 1

225 BOLT ON CIRCUIT BREAKERS

LOADS (VA)

208Y/120V, 3 PH, 4W SURFACE MOUNT

200 A MLO ALUMINUM BUS

RE 20 1 L //////

TOTAL CONN. LOAD (VA) 12358 13028 12000

38236

110

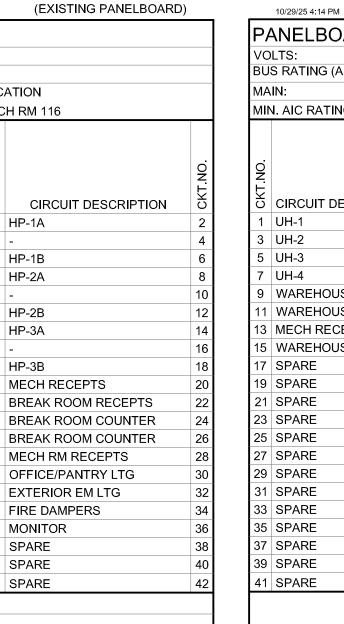
RE - EXISTING CIRCUIT TO BE RECONNECTED TO NEW CIRCUIT BREAKER

TOTAL DEMAND LOAD (VA) 12558 13153 12525

FEED THROUGH LOAD

PANEL DEMAND AMPS

TOTAL PANEL DEMAND (VA)



PANEL NOTES:

LOCATION

MECH RM 116

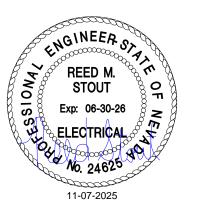
PANELBO	RD	В	NE	MA 1												
VOLTS:	208Y/120V,				E MOUN	Т										
BUS RATING (AN	PS):	200	ВС	LT O	N CIRCUI	T BREAKE	RS									
MAIN:	200 A	MLO	AL	UMIN	UM BUS									LOC	CATION	
MIN. AIC RATING		10K												WAF	REHOUSE	
						LOADS (VA	١)		LOADS (VA	١)						
OZ L S CIRCUIT DES	CRIPTION	NOTE BKR. SIZE	POLE	LOAD TYPE	A	В	С	А	В	С	LOAD TYPE	BKR. SIZE	POLE	NOTE	CIRCUIT DESCRIPTION	CKT NO
1 UH-1		15	1	М	672	//////	111111	4524	//////	//////	LM	60	-		WALK-IN FREEZER CU	2
3 UH-2		15	1	М	//////	672	//////	1/1///	4524	//////	LM	-	2		-	4
5 UH-3		15	1	М	//////	//////	672	1/1///	//////	4524	М	60	-		WALK-IN FREEZER CU	6
7 UH-4		15	1	М	672	//////	111111	4524	//////	//////	М	-	2		-	8
9 WAREHOUS	RECEPTS	20	1	R	//////	1260	111111	1/1///	312	//////	М	20	-		WALK-IN FREEZER FANS	10
11 WAREHOUS	RECEPTS	20	1	R	//////	//////	1080	1/1/1/	//////	312	М	-	2		-	12
13 MECH RECE	PTS	20	1	R	720	//////	111111	160	//////	//////	L	20	1		WALK-IN FREEZER LTS	14
15 WAREHOUS	LTS	20	1	L	//////	1200	111111	1/1///	3068	//////	М	50	-		WALK-IN COOLER CU	16
17 SPARE		20	1		//////	//////	0	1/1///	//////	3068	М	-	2		-	18
19 SPARE		20	1		0	//////	111111	624	//////	//////	М	20	1		WALK-IN COOLER FANS	20
21 SPARE		20	1		//////	0	111111	1/1///	160	//////	L	20	1		WALK-IN COOLER LTS	22
23 SPARE		20	1		//////	//////	0	1/1///	//////	1500	N	20	1		DIESEL BLOCK HEATER	24
25 SPARE		20	1		0	111111	111111	1500	//////	//////	N	20	1		DIESEL BLOCK HEATER	26
27 SPARE		20	1		//////	0	111111	1/1///	2000	//////	N	30	1		FORKLIFT CHARGER	28
29 SPARE		20	1		//////	//////	0	1/1///	//////	2000	N	30	1		FORKLIFT CHARGER	30
31 SPARE		20	1		0	//////	111111	0	//////	//////		20	1		SPARE	32
33 SPARE		20	1		//////	0	111111	1/1///	0	//////		20	1		SPARE	34
35 SPARE		20	1		//////	111111	0	1/1///	//////	0		20	1		SPARE	36
37 SPARE		20	1		0	111111	111111	0	//////	//////		20	1		SPARE	38
39 SPARE		20	1		//////	0	111111	1/1///	0	//////		20	1		SPARE	40
41 SPARE		20	1		//////	//////	0	111111	//////	0		20	1		SPARE	42
	FEED	THROUG	H LC	DAD	0	0	0	90%	PERCEN	IT BALAN	CE					
	TOTAL C	ONN. LO	AD (VA)	13396	13196	13156	LOAD AB	BREVIATIO	NS AND I	DEMA	ND F	CTO	DRS:		
	TOTAL DE	MAND LO	AD (VA)	14567	14667	13156	C=CONTI	NUOUS LC	AD=125%	, K=K	(ITCHE	EN E	QUIF	P.=100%	
	PHASE	DEMAN	D AN	/IPS	121	122	110	L=LIGHTI	NG LOAD=	125%, LM	=LAR	GEST	MO	TOR=	=125%,	
	TOTAL PAN					42390		м=мото	R LOAD=1	00%, N=N	ON-C	ITNO:	1 00	US LO	OAD=100%	
	PANEI	DEMAN	D AN	/IPS		122		P=PANEL	LOAD=10	0%, R=RE	CEPT	ACLE	LOA	D=10	00%	

MEALL				F1 A/		EED EDOM	LOAD		INDOCC'	BIOGONINECTING	DIOO	NIE BAA	
MECH.				FLA/		FED FROM	LOAD		INDOOR/	DISCONNECTING	DISC.	NEMA	
EQUIP. I.D.	VOLTS	PHASE	WIRE	MCA	MFA	(SOURCE)	(VA)	BRANCH CIRCUIT SIZE	OUTDOOR	MEANS TYPE	SIZE	TYPE	REMARKS
UH-1	120	1	2	5.6	15	B- 1	672	1/2"C, 2 #12, 1 #12 GRD	INDOOR	NON-FUSED DISC. SW.	30	1	
JH-2	120	1	2	5.6	15	B - 3	672	1/2"C, 2 #12, 1 #12 GRD	INDOOR	NON-FUSED DISC. SW.	30	1	
UH-3	120	1	2	5.6	15	B- 5	672	1/2"C, 2 #12, 1 #12 GRD	INDOOR	NON-FUSED DISC. SW.	30	1	
UH-4	120	1	2	5.6	15	B- 7	672	1/2"C, 2 #12, 1 #12 GRD	INDOOR	NON-FUSED DISC. SW.	30	1	
HP-1A	208	1	2	17.8	25	A - 2,4	3702	1/2"C, 2 #10, 1 #10 GRD	OUTDOOR	FUSED DISC. SWITCH	30	3R	PROVIDE FUSING PER MANUFACTURER'S RATINGS.
HP-1B	120	1	2	7.7	15	A - 6	924	1/2"C, 2 #12, 1 #12 GRD	INDOOR	NON-FUSED DISC. SW.	30	1	
HP-2A	208	1	2	17.8	25	A - 8,10	3702	1/2"C, 2 #10, 1 #10 GRD	OUTDOOR	FUSED DISC. SWITCH	30	3R	PROVIDE FUSING PER MANUFACTURER'S RATINGS.
HP-2B	120	1	2	7.7	15	A - 12	924	1/2"C, 2 #12, 1 #12 GRD	INDOOR	NON-FUSED DISC. SW.	30	1	
HP-3A	208	1	2	29.5	50	д - 14,16	6136	3/4"C, 2 #6, 1 #10 GRD	OUTDOOR	FUSED DISC. SWITCH	60	3R	PROVIDE FUSING PER MANUFACTURER'S RATINGS.
HP-3B	120	1	2	10.1	15	A - 18	1212	1/2"C, 2 #12, 1 #12 GRD	INDOOR	NON-FUSED DISC. SW.	30	1	
EF-1	120	1	2	0.5	15	A - 19	60	1/2"C, 2 #12, 1 #12 GRD	OUTDOOR	NON-FUSED DISC. SW.	30	3R	

CONSULTANT

Las Vegas, NV 89118

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PROJECT NAME



E5.00

OF NORTHE

ELECTRICAL SINGLE LINE DIAGRAM AND SCHEDULES

REVISIONS

11.06.2025