

MARC Project Title: US Department of Energy – Renew America’s Nonprofits Grant Program

Federal CFDA Number: 81-086

**Federal Grant Recipient: Mid-America Regional Council Community Services Corp.
DE-SE0001001**

REQUEST FOR PROPOSALS FOR BUILDING ENERGY IMPROVEMENTS

ADDENDUM #1

Provided by:

Mid America Regional Council
801 Pennsylvania, Suite 400, Kansas City, MO 64105
816/474-4240
www.marc.org

In Conjunction with:

Community Capital Fund
Cornerstones of Care
Guadalupe Centers
Hope Faith Ministries
Jewish Vocational Service Bureau of Greater KC
Kansas City Public Library – Waldo Branch
Linwood Property – 3210 Michigan
YMCA of Greater KC – Linwood Branch
Mattie Rhodes Center
reStart Inc.
Samuel U. Rodgers Health Center
Synergy Services
TUV SUD

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Clarifications from the Site Walks

Please note that the bid form is your best option for telling the building owner what all is included in your proposed cost of work. If there is not enough room on the bid form, you are welcome to provide a narrative, proposed unit cutsheets, etc to help the building owners understand the value of your bid. During the site walks, more information on the exact scope of work was provided by the building owners and has been captured below:

1. Provide hail guards on all units.
2. **Sam Rodgers Health Center:**
 - a. Although the bid language is written around Trane as the basis of design the facility is open to other manufacturers if they are an equal product.
 - b. Add Alternate 1: Smart thermostats that include occupancy, seasonal scheduling, remote access/control, and weather sensing are required. Thermostats need to be tamperproof to prevent changing energy-saving temperature setpoints.
3. **Synergy Services:**
 - a. Base Bid Clarifications: Synergy will not need to replace the small window unit "10 kBtu R-22 portable AC in the server room."
Synergy has the original load calculations and wants to replace the RTUs shown below 1:1.

Unit #	Make	Model	Serial #	Tons	Original Curb size	Adapter size
1	York	ZF048N10A2AAA2A	N1L2250986	4	40" x 70"	42" x 72"
2	Carrier	48TCEA06A2A5A0A0A0	3411C77085	4	40" x 70"	46 x 74.38
3	York	ZF048N10A2AAA2A	N1A3386256	4	40" x 70"	42" x 72"
4	York	ZF060N10A2AAA5A	N1B2592741	5	41" x 71"	45" x 82"
5	York	ZF036N08A2AAA2A	N1H2072621	3	40" x 70"	42" x 72"
6	York	ZF090N15N2AAA5A	N1A3449365	7.5	53" x 82"	55" x 83.5"
7	York	ZF048N10A2AAA2A	N1A3457653	4	40" x 70"	42" x 72"
8	York	ZF036N08A2AAA2A	N1N2341908	3	41" x 71"	42" x 72"

- b. Add Alternate 5 should be combined in Add Alternate 2 since there are only 4 spots on the bid form.
4. **JVS** ductwork has had significant damage to it from animals. Air seal might not work on the ductwork. Some ductwork repair should be considered in the base bid. Additionally, there are less units that actually need replacing than in the energy

audit. A majority of units are only 10 years old with only 3 units that need replacing. The bigger concern at JVS is the controls.

5. At **Linwood Property** there is an additional furnace in the Unisex bathroom that was not included in the energy audit but that needs to be included in the base bid. Photo in attachment.

6. Guadalupe Centers

- a. Base Bid: It was discovered that there are no base board heaters in the scope of work. The base bid should not include base board heaters.
- b. Add Alternate 1: All exterior fluorescent lights were upgraded to LEDs after the energy audit, but the upper floor still has fluorescents.
- c. Add Alternate 3: For the weatherization scope, it was communicated from building ownership that window replacement is more important than the attic insulation and should be priced in lieu of the attic insulation on the weatherization scope of work. Window replacement should be included in this add alternate as well. Guadalupe Centers has provided the following detail for the window replacements:

37 Total windows

First floor 15 windows total:

Front office 1st Floor 55×41- 2 windows

106 Jessica Office 56×41 1 window south side. & 49 × 39½ 1 window west side.

107 Conference Room 45×36½ - 1 window

108B Restroom 48×40 - 1 window

102 Jorge Office 55×41 - 1 window

103 Patricia Office 55×41 - 1 window

104 Jasso Office 55×41 - 2 windows

109 Printer room 48×40 - 1 window

110 Chato Office 48×40 - 1 window

105 Rojas Office 54×37 - 1 window north side. 54×40 2 windows east side.

2nd floor 18 windows total:

Upstairs landing 56 × 40 2 windows

210 56×41-1 window south side. 50×41 west side. & 49×40 west side.

201 56×42 - 2 windows

205 49½×41 - 1 window

202 56×41½ - 2 windows

206 49½×41 - 1 window

203 56× 41½ - 2 windows

Women Restroom 50×41 - 1 window

204 55× 41 - 2 windows east side. 55×40½ - 1 window north side.

207 49×41 - 1 window

Basement floor 4 windows total:

003 Office 49×41 - 1 window

004 Nancy Office 49×41 - 1 window

006 Men Restroom 33×41 - 1 window

007 Women Restroom 33×41 - 1 window

7. **KC Public Library Waldo** would like to add the following information to the base bid and add another add alternate:

- a. Base Bid: The RFP shows there are (3) RTU's conditions rated at 2/5 Poor and recommended to replace. While onsite we were shown (2). The two RTUs to be replaced are both Trane located on the roof, one dated 2002 and another 2006. The energy audit inventory shows them as RTU-1 at 12.5 tons and RTU-4 at 10 tons. The bid should include Hail guards, modulating economizers, barometric relief with digital controller for BAS interface for future use. Contractor will still need to connect existing controls to unit.
- b. Add Alternate: Replace electrical conduit from the HVAC units thru roof pitch pans for watertight connections.

8. **Cornerstone of Care** has clarified their priorities:

a. Base Bid: HVAC Units for Replacement:

1. RTU-SW – Southwest rooftop unit, Lennox, 3 tons.
2. RTU-SE – Southeast rooftop unit, Carrier, 4 tons.
3. RTU-NE- Northeast rooftop unit, Carrier 4 tons
4. Kitchen rooftop unit – Exact model and capacity still need to be confirmed.

b. Alternate 1: Electrical Panels for Replacement:

- Two existing electrical panelboards located in the upper main electrical area of CYR Hall. Both panels have been identified and photographed.

c. Alternate 2: Additional Required Replacement:

- The existing domestic hot water heater serving the kitchen is also a priority and needs to be included in the project.

Question and Answer

Q1: To qualify to bid this project do we need to be present at all of the site walk throughs or just the one we intend to bid?

A1: To qualify to bid, you only need to be present at the site walks you plan on bidding on. You do not need to submit a bid on every project that was attended but you are welcome to submit a bid.

Q2: Will prevailing wages be required for ALL buildings in the RFP?

A2: Yes, the source of funds is driving all projects to require prevailing wages. These are federally funded projects through a DOE grant, thus the federal terms and conditions in the RFP and bid form that must be followed. Each county has its own prevailing wage rate which has been included in the RFP in Section 10. Please use the information in the RFP for prevailing wages so all bids are to the correct standard.

Q3: Are contractors to submit proposals directly to MARC for each scope at selected properties, or is the intent for contractors to provide solutions and corresponding pricing through a GC, design-build firm or energy-performance contractor serving as the prime?

A3: There are no specific requirements to the makeup of the team, but the project does need to get through both permitting and construction. There are no designers on board and no drawings for any of the properties, so a design build approach is preferred but not required, as long as the team in the bid can provide both design and construction.

Q4: When are projects expecting to be awarded?

A4: MARC, SIG, and the nonprofit building owners will meet the week of November 2nd to review the bids and expect the projects to be awarded on November 6th. From there, it is the responsibility of the awarded contractor to begin the contracting process with the corresponding nonprofit.

Q5: Is the contractor responsible for tracking prevailing wages?

A5: Yes, through the LCP tracker. MARC and SIG will also have access and will be reviewing progress in the LCP tracker for awarded contractor teams. Once awarded, contractors will have access to the tracker.

Q6: Can a partner organization attend site visits on behalf of a firm?

A6: Yes, but please state that partnership in the bid form so those reviewing the bid are aware of that when they are reviewing who attended what walkthrough.

Q7: Do all projects need to provide economizers?

A7: All projects are to meet IECC 2021 or the local energy code, whichever is stricter. IECC 2021 or higher requires economizer OR the project has to show it meets the exceptions which make the economizer not applicable. All projects are expected to meet these same requirements.

Q8: Attachment A (Federal Terms and Conditions, RFP p.9) and the Agreement, Special Conditions, and General Conditions (p.22) are referenced but not in the posted PDF. Can you provide those documents?

A8: Federal terms and conditions are provided in the RFP on pages 9-11. These need to be followed due to this being a government funded project. The agreement and any special or general conditions from that facility will be established with the owner in the contract that will be provided upon award. The statement in the bid document is noting that the company awarded the work will incorporate all of this into contract documents to submit for permitting to the city the work is in.

Q9: Are bid, performance, or payment bonds required for any site?

A9: These are not required for any site.

Q10: Is award made per site?

A10: Yes. Each building owner will determine the best value for their particular property. Entities that bid on multiple properties will be seen as an value add; however, bidding on multiple projects does not guarantee selection on all of those bid.

Q11: Are there MBE/WBE/DBE participation goals or good-faith-effort requirements?

A11: There are none of these requirements for this project.

Q12: Is there a published budget or not-to-exceed amount for Synergy?

A12: There are no published budgets but the energy audit budgets for the work for each property are a good bar to use when establishing a budget for the project.

Q13: What are the payment terms, retainage, and progress-billing schedule?

A13: These will be established by each property during the contracting phase following the bidding process. DOE has encouraged MARC to direct subrecipients to limit the number of invoices per project as milestones such as delivery of equipment and completion of the project are met rather than any progress payments.

Q14: Is the walk-through sign-in sheet the only required proof of attendance, or should anything else be included with the bid?

A14: Walkthrough sign in sheets are the only required proof of attendance. For record, the companies that attended and are included in the bid have been included in this addendum.

Q15: Will MARC accept Employer's Liability of \$500K primary with a \$2M umbrella in place of \$1M primary Employer's Liability?

A15: The bidders should indicate where their insurance coverage deviates from what is requested; it will be up to the individual nonprofit agencies to determine if lesser insurance coverage is acceptable.

Q16: Is active SAM.gov registration (UEI) required of contractors for this award?

A16: According to a recent response from DOE, SAM.gov registration is not required of contractors or subcontractors.

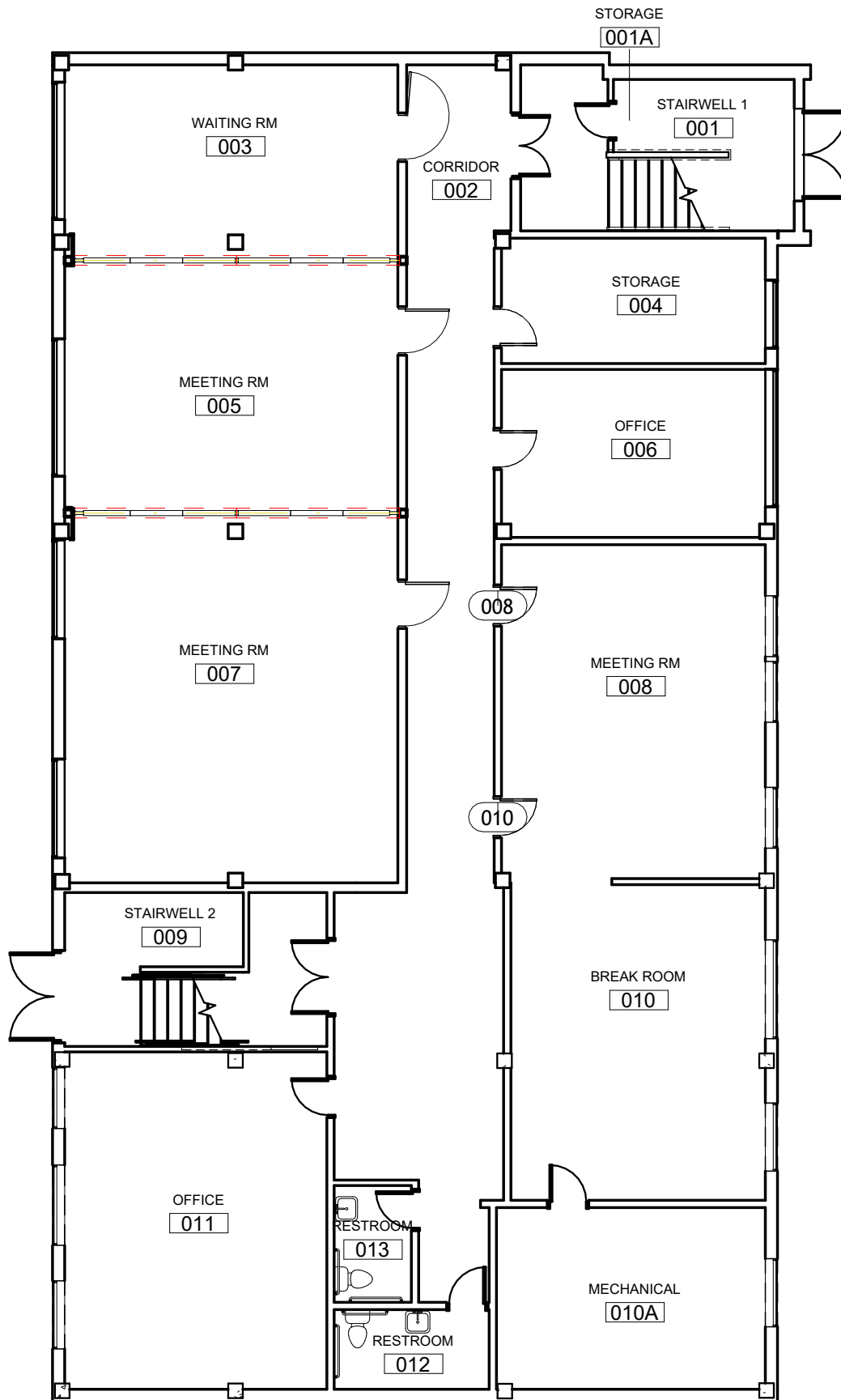
Q17: If the LLC has no corporate seal, is a seal still required on the bid forms?

A17: No; however, the Bidder should indicate in their response why there is no corporate seal.

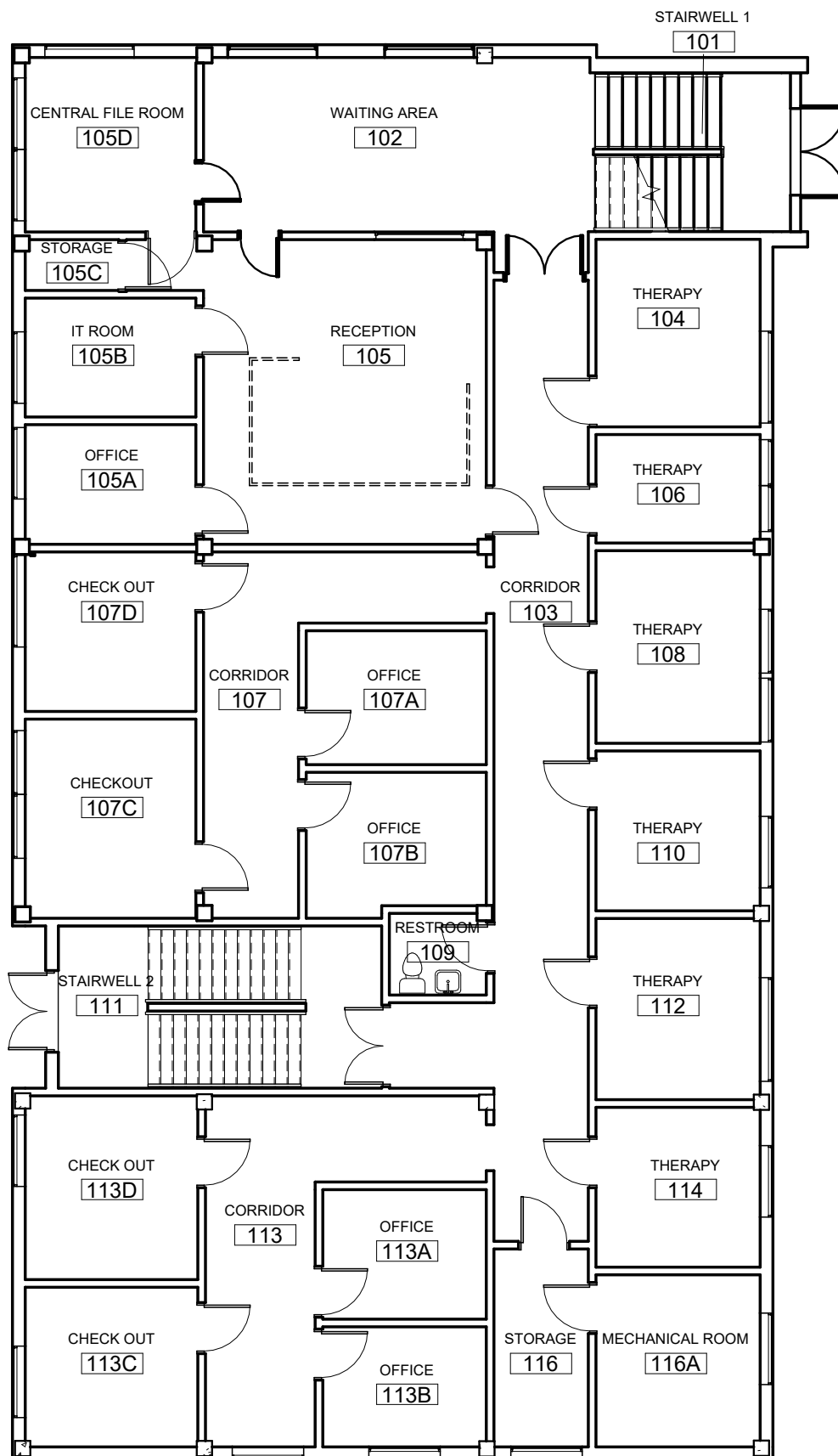
Clarification on Bid Form

The nonprofit building owners have not provided their Contract Documents for this RFP. The Bid Form is revised to reflect that the Bidders have received and reviewed the Federal Terms and Conditions, which are attached. These Federal Terms and Conditions will be standard for all nonprofit organizations using the Dept. of Energy grant funds.

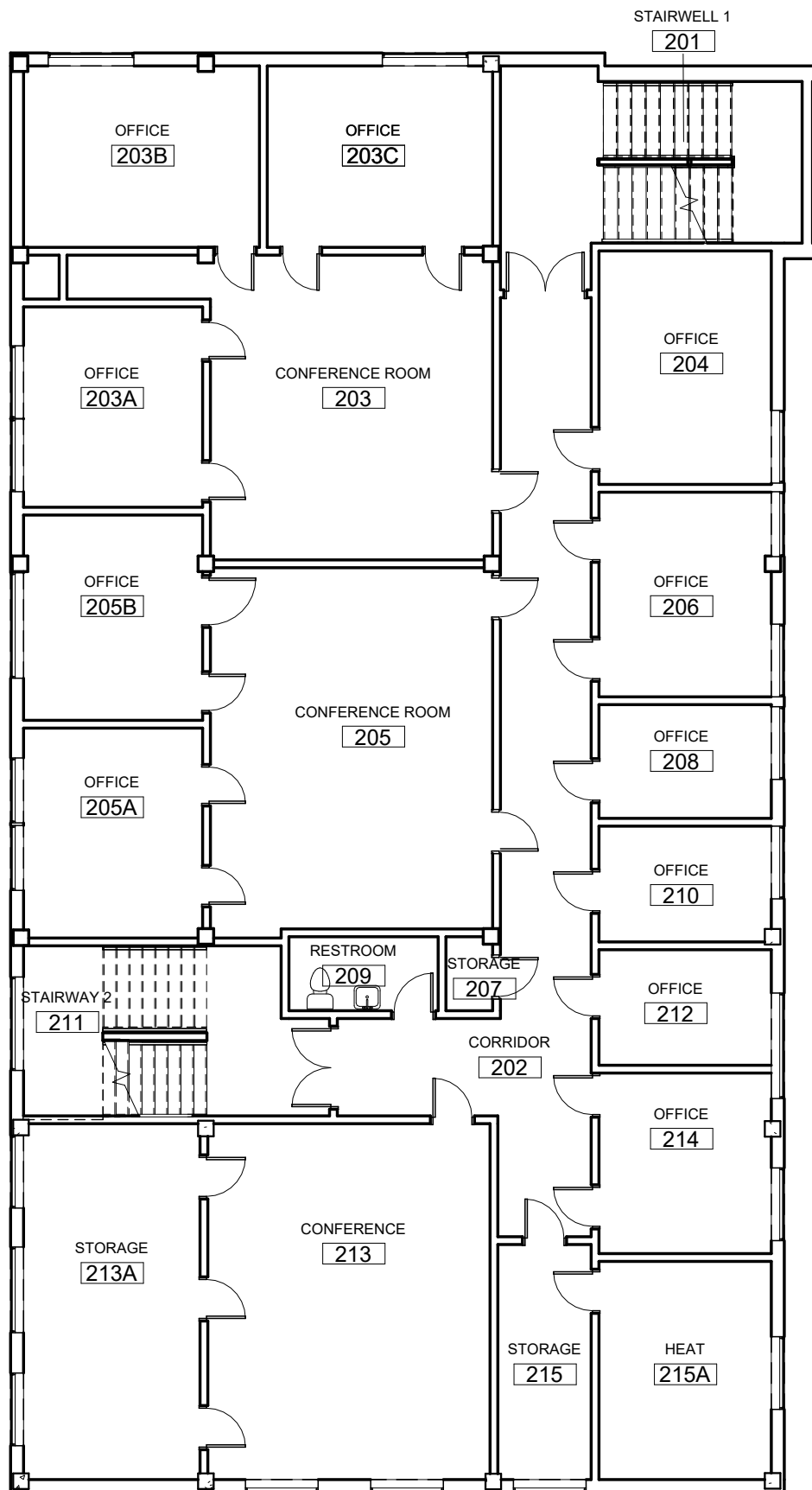
Mattie Rhodes Center



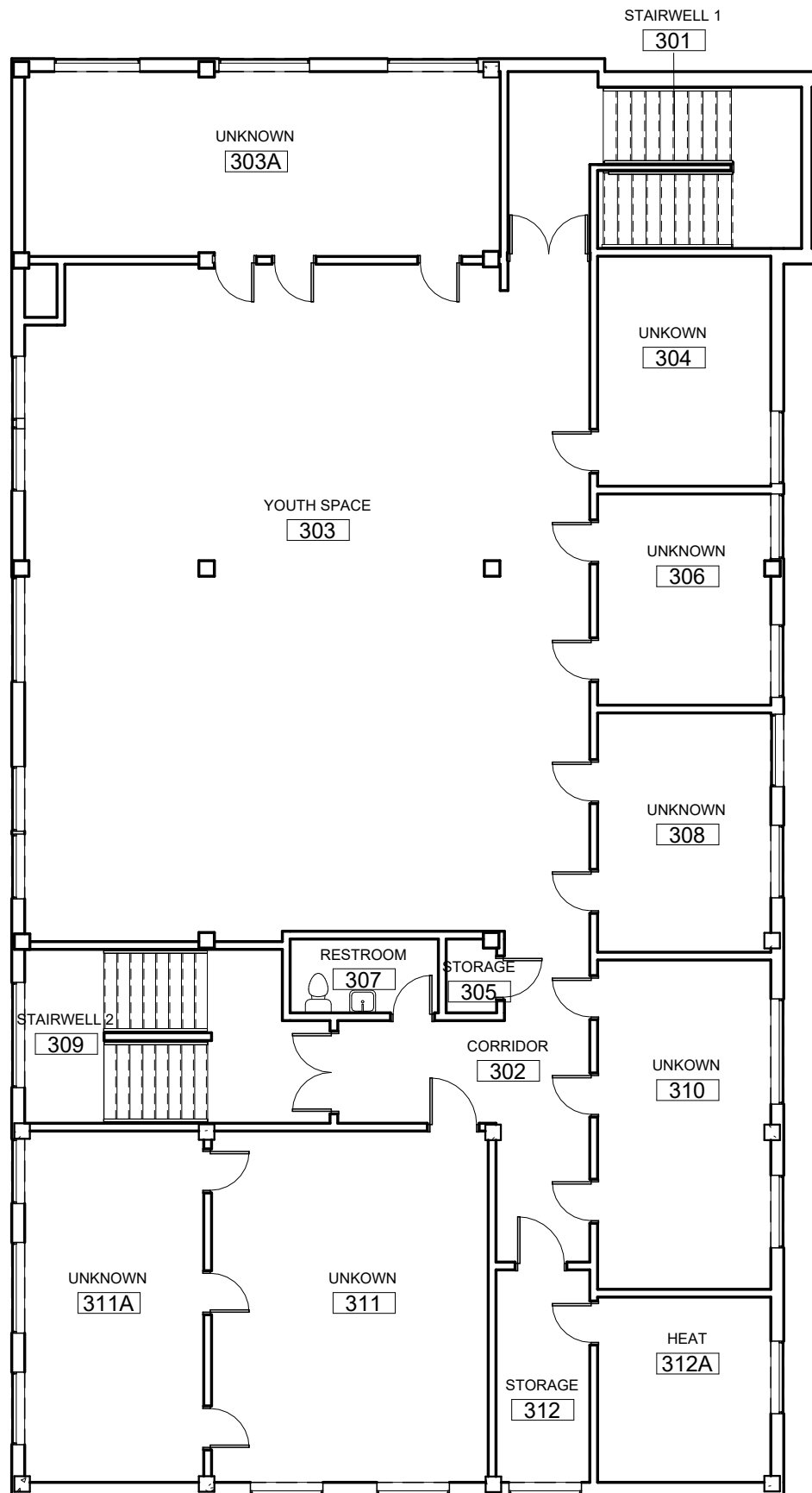
1 NUMERATION PLAN - BASEMENT
3/32" = 1'-0"



1 NUMERATION PLAN - FLOOR 1
 3/32" = 1'-0"



1 NUMERATION PLAN - FLOOR 2
 3/32" = 1'-0"



1 NUMERATION PLAN - FLOOR 3
3/32" = 1'-0"

Matte Rhodes Center (148 N Topping Ave, Kansas City, MO 64123) Electrical and HVAC Project

Agency Background:

Mattie Rhodes Center is a nonprofit organization serving the Greater Kansas City area through a comprehensive array of programs. The agency addresses the social determinants of health by strengthening social cohesion, promoting economic stability, and expanding access to education, healthcare, and affordable housing. We envision a vibrant, connected community where individuals and families are healthy, safe, and equipped to thrive.

Our staff delivers culturally competent programming across six service areas:

Community Behavioral Health. We offer behavioral health services for children, individuals, couples, and families, recognizing that caring for mental health is essential to overall well-being. Each year, our team serves more than 1,000 individuals in Jackson County, Missouri, and the surrounding metropolitan area.

Youth Development. Our programs for youth and young adults focus on character development, social-emotional learning, and violence prevention. We also provide early childhood education that supports academic growth and fosters creativity through arts education.

Community Economic Development. These initiatives cultivate resources and opportunities for neighborhood residents and leaders. Current efforts include workforce development programs for youth and adults and the Visionaries supportive living program, which serves individuals with developmental disabilities.

Cultural Arts. Through visual arts, we bridge cultures within the Kansas City community while celebrating Latino culture, history, and traditions.

Public Health. Through La Clínica and other community-based programs, we increase access to affordable healthcare for low-income and uninsured individuals.

Public Safety. Our programs focus on violence prevention and intervention, substance use treatment, and connecting families impacted by violence with critical resources and support.

Mattie Rhodes Center is the only fully bilingual and bicultural, state-certified behavioral health care provider in the Greater Kansas City region, and it is certified by the State of Missouri to provide intensive outpatient substance use treatment. Nationally accredited by the Council on Accreditation (COA), the Center proudly celebrates 132 years of service to the community.

Building Characteristics:

Year of Construction	1956
Gross Floor Area	18,200 sq. ft.
Total Conditioned Area	17,000 sq. ft.
Number of Floors	4
Conditioned Areas Above Grade	3
Conditioned Areas Below Grade	1

The building is served electricity and natural gas as metered energy sources:

Energy Source	Utility Provider	Rate Schedule
Electricity	Evergy	SGA Secondary Voltage
Natural Gas	Spire	Residential

The current HVAC system serving the building is summarized in the table below:

HVAC Component	Metric	Value
Heating	Primary Source	Gas Furnace Split Systems
	Fuel	Natural gas
	Distribution	Ducted to individual zones
	Other Considerations	All existing split systems are over 20 years old
Cooling	Primary Source	Condensing Unit Split Systems
	Secondary Source	IT Room Window Air Conditioner
	Distribution	Ducted to individual zones
	Other Considerations	All existing condensing units use R-22
Controls	Zone Controls	Individual zone thermostats
	Central Controls	No central controls system
	Other Considerations	Mix of wired and WiFi thermostats, recent failures

Building Lighting Inventory:

<i>Lighting Inventory</i> Location	Lighting Type	Fixture Type	Control Type	Approx. Quantity	Watts per Fixture	Total Watts
Lobby/Office	Fluorescent	Round Flush-Mount	Wall Switch	3	96	288
Lobby/Office	Fluorescent	Linear Tube	Wall Switch	4	128	512
Lobby/Office	Fluorescent	Linear Tube	Wall Switch	1	64	64
Stairwells	Fluorescent	Round Flush-Mount	Wall Switch	22	64	1,408
Basement	LED	Recessed Can	Motion Sensor	75	8	600
Basement	LED	Single Bulb	Motion Sensor	2	8	16
Basement	LED	Linear Tube	Motion Sensor	18	12	216
Basement	Fluorescent	Recessed Can	Motion Sensor	5	32	160
Basement	Fluorescent	Linear Tube	Motion Sensor	4	32	128
Mechanical	LED	Single Bulb	Wall Switch	3	8	24
1st Floor	LED	Round Flat Panel	Wall Switch	8	12	96
1st Floor	Fluorescent	Round Flush-Mount	Wall Switch	2	64	128
1st Floor	Fluorescent	Round Flush-Mount	Wall Switch	4	96	384
1st Floor	Fluorescent	Linear Tube	Wall Switch	7	64	448
1st Floor	Fluorescent	Linear Tube	Wall Switch	10	128	1,280
2nd Floor	Fluorescent	Round Flush-Mount	Wall Switch	2	64	128
2nd Floor	Fluorescent	Round Flush-Mount	Wall Switch	22	96	2,112
2nd Floor	LED	Round Flat Panel	Wall Switch	8	12	96
2nd Floor	Fluorescent	Linear Tube	Wall Switch	14	48	672
3rd Floor	Fluorescent	Round Flush-Mount	Wall Switch	21	96	2,016
3rd Floor	LED	Round Flat Panel	Wall Switch	16	12	192

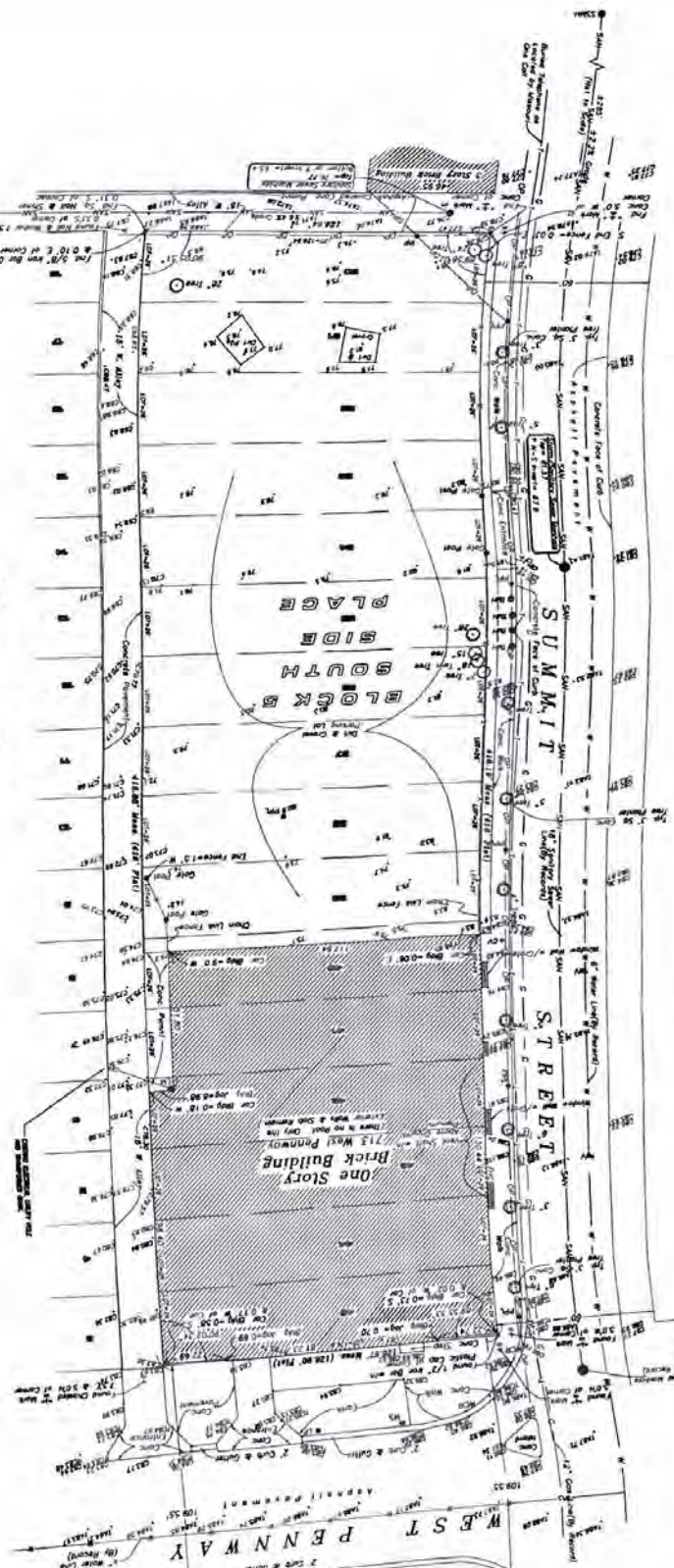
Per RFP Building HVAC Inventory to be replaced:

<i>HVAC Equipment ID</i>	Location	Type	Area Served	Make	Model	Year	Output Capacity	Efficiency
CU-1	Roof	Condensing Unit	Basement	Trane	2TTB3042A100	2005	3.5 Tons	13 SEER
CU-2	Roof	Condensing Unit	Basement	Trane	2TTB3048A100	2005	4 Tons	13 SEER
CU-6	Roof	Condensing Unit	2nd Floor	Trane	2TTX4042B100	2006	3.5 Tons	14 SEER
CU-7	Roof	Condensing Unit	2nd Floor	Trane	2TTX4042B100	2006	3.5 Tons	14 SEER
CU-8	Roof	Condensing Unit	2nd Floor	Trane	2TTX4042B100	2006	3.5 Tons	14 SEER
F-1	Basement Mech	Furnace	Basement	Trane	TUD120G960K4	2005	96 MBH	80% AFUE
F-2	Basement Mech	Furnace	Basement	Trane	TUD120C960K4	2004	96 MBH	80% AFUE
F-6	2nd Floor Mech	Furnace	2nd Floor	Trane	TUD1C100A9481	2006	79 MBH	80% AFUE
F-7	2nd Floor Mech	Furnace	2nd Floor	Trane	TUD1C100A9481	2006	79 MBH	80% AFUE
F-8	2nd Floor Mech	Furnace	2nd Floor	Trane	TUD1C100A9481	2006	79 MBH	80% AFUE

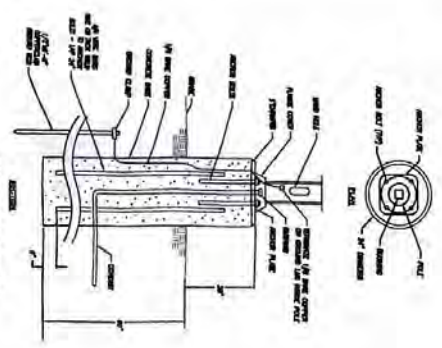
Replaced Equipment:

The 3rd and 1st floors are currently in process of having their HVAC systems replaced. York furnaces and evaporator coils are being installed in the same locations as the existing equipment. York condensing units are also being installed in their existing locations, but on new supports that raise them 4-6" above roof level.

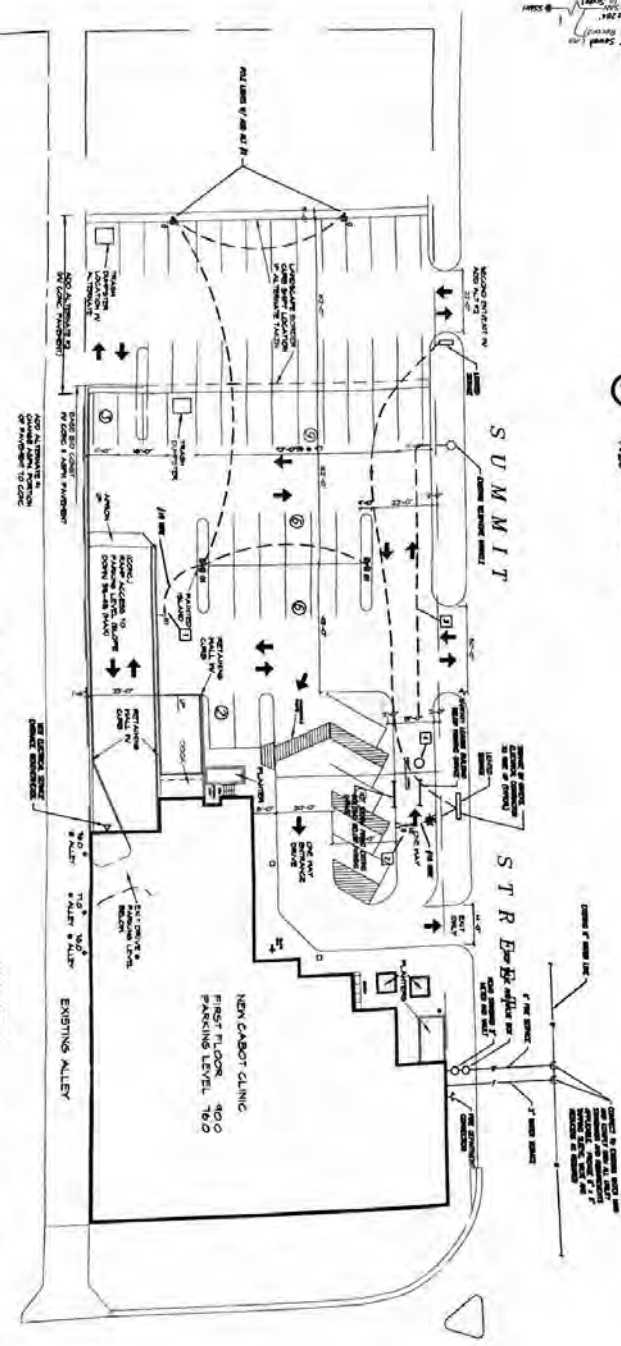
SAM RODGERS HEALTH CENTER
2121 SUMMIT, KCMO



EXISTING SITE PLAN
 1"=50'

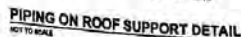


POLE BASE DETAIL
 1"=10'



MECHANICAL/ELECTRICAL SITE PLAN
 1"=50'

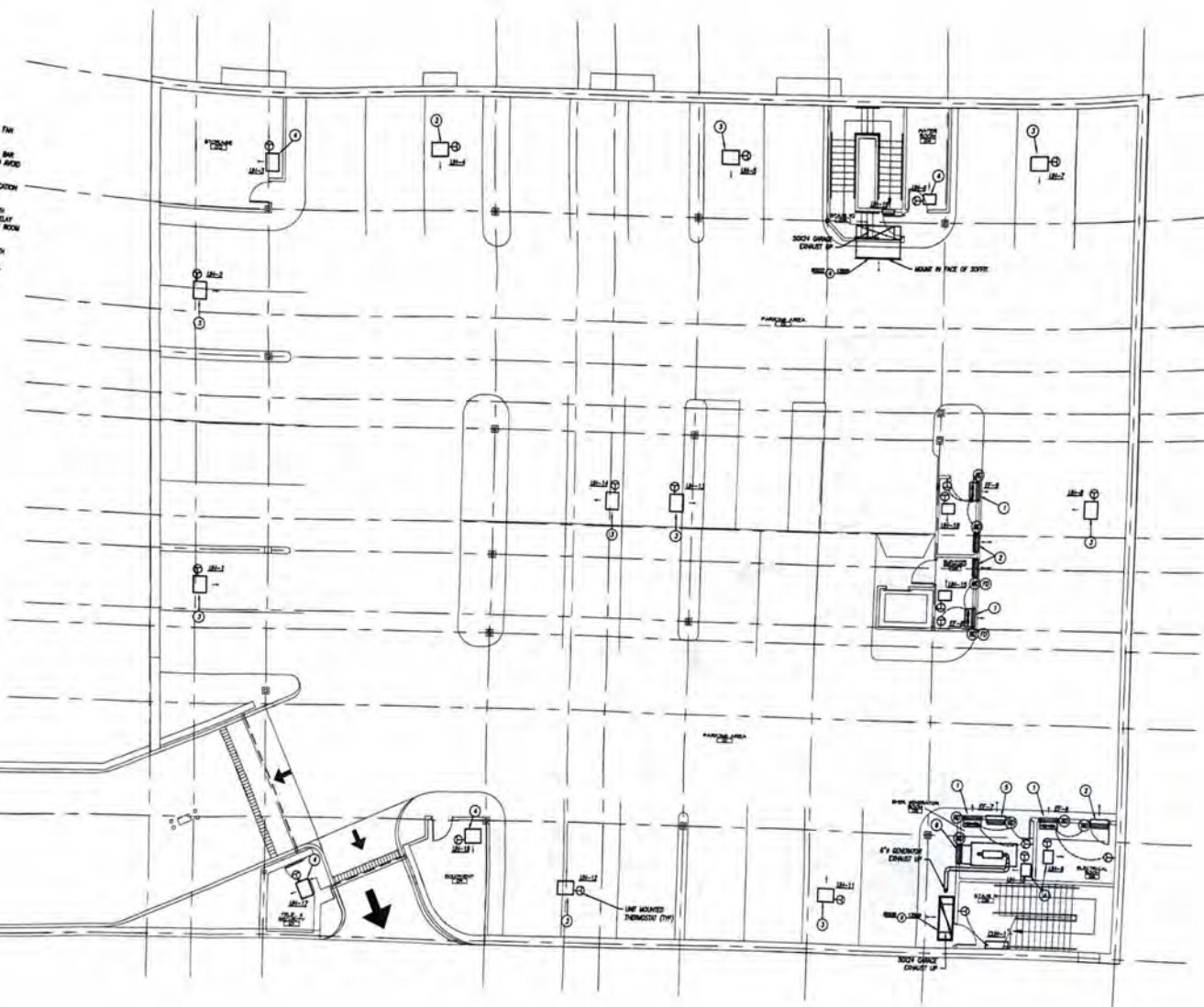
- REVISIONS:
 1. REVISED FOR NEW CABOT CLINIC
 2. REVISED FOR FIRST FLOOR
 3. REVISED FOR PARKING LEVEL
 4. REVISED FOR EXISTING ALLEY
 5. REVISED FOR WEST PENNWAY



- PEARSON KENT MURINLEY KAAP**
 1001 S. GARDEN ST. #100
 AUSTIN, TEXAS 78704
 TEL: 512.452.3400 FAX: 512.452.3401

PLAN KEYED NOTES

1. MOUNT WALL FAN APPROX. 6'-6" TO BOTTOM OF FRAME.
2. 24"X14" LEAFER WITH MOTORIZED DAMPER INTERLOCKED TO FAN OPERATION. MOUNT ABOVE DOOR.
3. UNIT HEATER MOUNTED ABOVE CEILING SPACE AND BETWEEN AIR DUCTS. ORIENT HEATER FOR MAXIMUM AIRFLOW TOWARD AND ACROSS DIRECTING AIRFLOW INTO CONDUITING, ETC.
4. UNIT HEATER MOUNTED TO CEILING. COORDINATE EXACT LOCATION WITH EQUIPMENT IN SPACE.
5. 24"X14" LEAFER WITH MOTORIZED DAMPER INTERLOCKED WITH GENERATOR OPERATION. PROVIDE TO MINIMIZE TIME DELAY RELAY FOR GENERATOR COOL DOWN SEQUENCE AND OPERATION OF ROOM CONTACT FAN.
6. 24"X14" LEAFER WITH MOTORIZED DAMPER INTERLOCKED WITH GENERATOR INDUCTION FAN OPERATION. PROVIDE EXHAUST FLOW FROM GENERATOR INDUCTION DOWNDRAFT TO LEAFER.



 PARKING LEVEL - HVAC

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

PEARSON CENT. BUILDING, RAAP
PEARSON
 11111 BUCKINGHAM, SUITE 100, BIRMINGHAM, AL 35203
 205-975-4500 FAX 205-975-4501

 Cabot Westside Health Center
 SAINT LUKE'S

JOB TITLE
 CABOT WESTSIDE HEALTH CENTER

M1.1

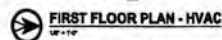
NEVILLE, SHARR & SIMON

1. BACKWASH MANUALLY TO DIFFUSERS AND BALLS SHALL BE SAME SIZE AS DIFFUSER NEED.
2. BACK WASHING TO TENDRUM BONES SHALL BE SAME SIZE AS ONE PAST EXCEPT WHERE NOTED
3. MINIMUM FLEX BACK LENGTH TO DIFFUSERS AND BALLS SHALL BE 1'-0"

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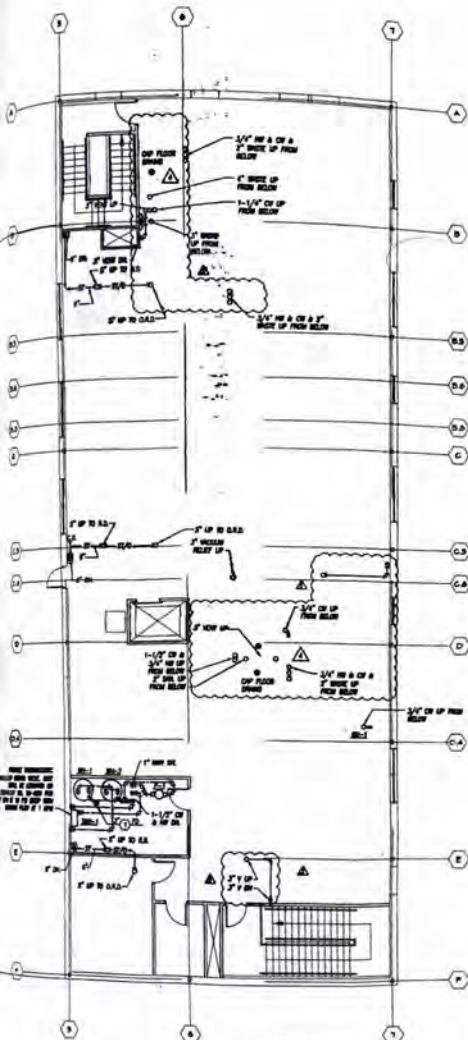
① MATCH JEWELRY DESIGNER TO BE SHOWN BY
ACQUISITION, INSTEAD OF JEWELRY TO BE
ACQUISITION

- [illegible]

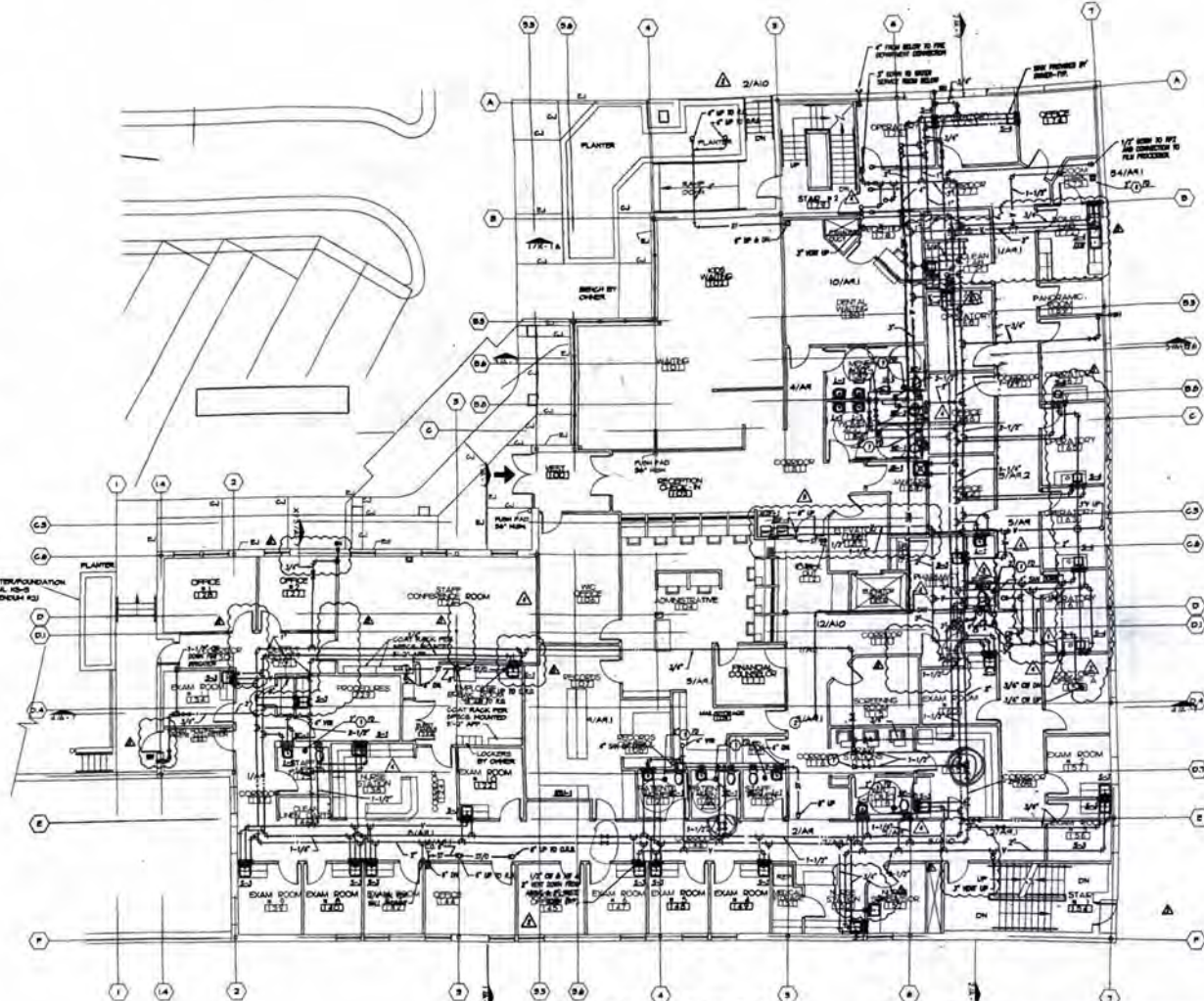


By

PROJECT # 2578



SECOND FLOOR PLAN - PLUMBING
W.P.T.



FIRST FLOOR PLAN - PLUMBING
W.P.T.

NOTE: INSTALL SPECIFIED 4'-0" CORNER GUARDS AT ALL OUTSIDE CORNERS OF HALLS AND ENTRY HALL CONDITIONS (PAIR OF 2" UNITS) AND OTHER LOCATIONS WHERE DIRECTED. A MAXIMUM OF 60 UNITS FOR THE 1ST FLOOR AND 30 FOR THE SECOND FLOOR IS ANTICIPATED.

GENERAL NOTES:
ALL HALL DIMENSIONS SHOWN ARE TO FACE OF METAL STUDS OR OUTSIDE FACE OF EXTERIOR HALL CONCRETE, MASONRY OR SHEATHING.
ALL INTERIOR PARTITIONS NOT NOTED WITH A HALL TYPE SYMBOL (H) ARE HALL TYPE (H).

NOTE: PLAN NOTES:
LOCATE SHOWN LOCATIONS/MOUNTING BRACKETS, AS DIRECTED AT 54" FROM CORNER OF ROOM 101, 54" FROM CORNER OF ROOM 102 AND 104 CORNER OF ROOM 103.

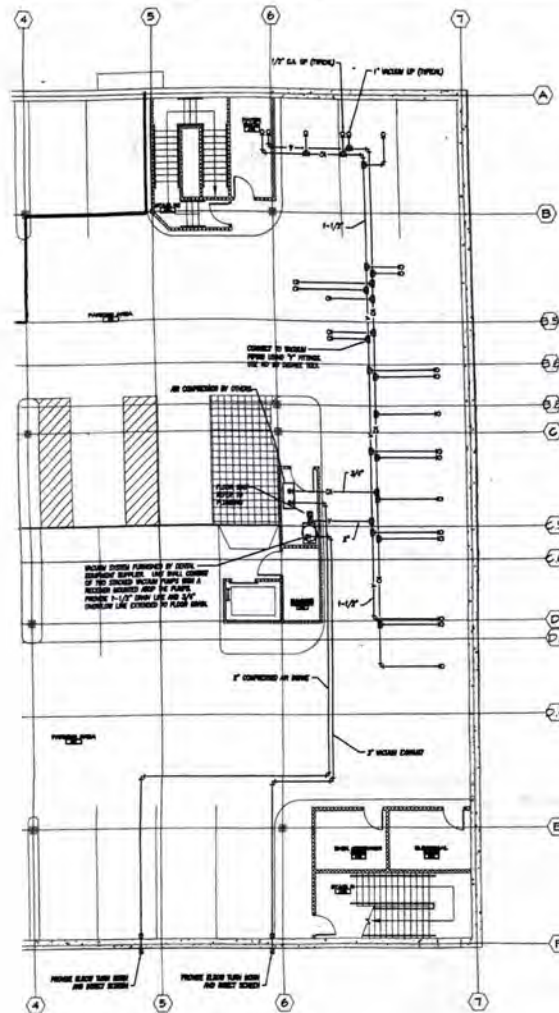
To Building Permit #

SPECIAL INSPECTION REQUIRED AS PREVIOUSLY SPECIFIED
Codes Administration Department
City of Kansas City, Missouri
Director of Codes Administration

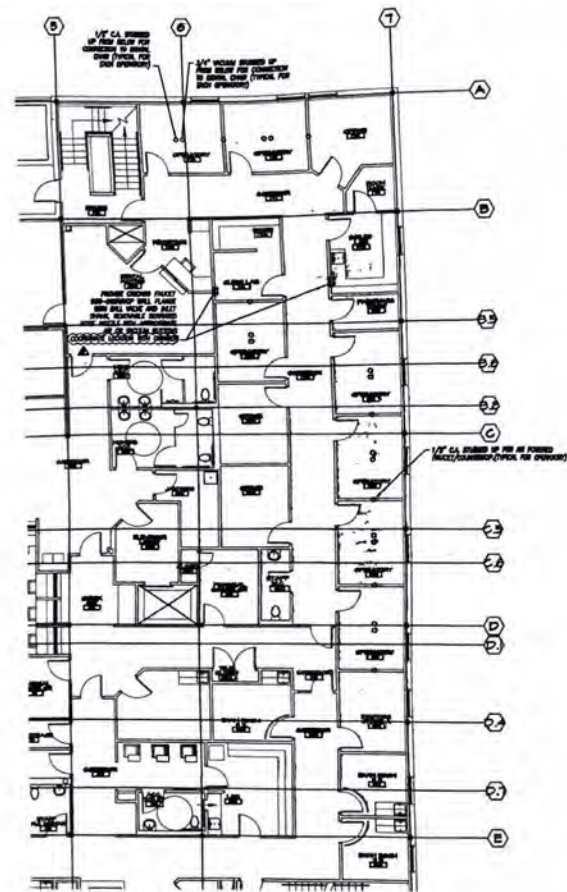
Date: _____
By: _____

PEARSON KEY BUILDING GROUP
1111 N. W. 10th St., Suite 100
Fort Lauderdale, FL 33304
Tel: 954.582.1111 Fax: 954.582.1112

PROJECT: 001
OWNER: F. J. JONES
CHECKED BY: J. J. JONES
DATE: 10/1/00
REVISIONS:
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**PARTIAL PARKING LEVEL PLAN
MEDICAL GAS**



**PARTIAL FIRST FLOOR PLAN
MEDICAL GAS**

GENERAL NOTES:

1. ALL COMPRESSORS SHALL BE AS SHOWN OR FINISHED BY THE OWNER, EQUIPMENT SUPPLIER.
2. ALL COMPRESSORS AND PIPING SHALL BE 1/2" GALV. RIBBED CORRUGATED.
3. SHIELD PIPING, AIR COMPRESSORS AND VACUUM PUMP FOR ANESTHESIOLOGICAL REQUIREMENTS.
4. SLOPE VACUUM PIPING IN 1" PER FOOT AND ALL VACUUM PIPING SHALL BE 1-1/2" UNLESS NOTED OTHERWISE.
5. VACUUM PIPING SHALL BE AS TEST SPECIFIED OFF VACUUM JUNCTION PIPING BY THE OWNER, EQUIPMENT SUPPLIER.
6. COORDINATE EXIST. LOCATION OF ROOMS AND VENT EXHAUST OF ALL PIPES AT EXIST.
7. SHIELD SHALL BE AS SHOWN IN VACUUM PIPING.

CHANGES REVIEWED FOR CODE COMPLIANCE
To Building Permit # _____

SPECIAL INSPECTION REQUIRED AS
PREVIOUSLY SPECIFIED

Codes Administration Department
City of Kansas City, Missouri
Director of Codes Administration

Date: _____

By: _____

PEARSON KENT DUNNLEY RAAP
1100 S. W. 10TH AVE. SUITE 100 KANSAS CITY, MO 64105
913-465-8000 FAX 913-465-8001

PROJECT # 2773
DRAWN BY JCS
CHECKED BY JCS
ISSUE DATE 1/8/93
REVISION:
A/3/94

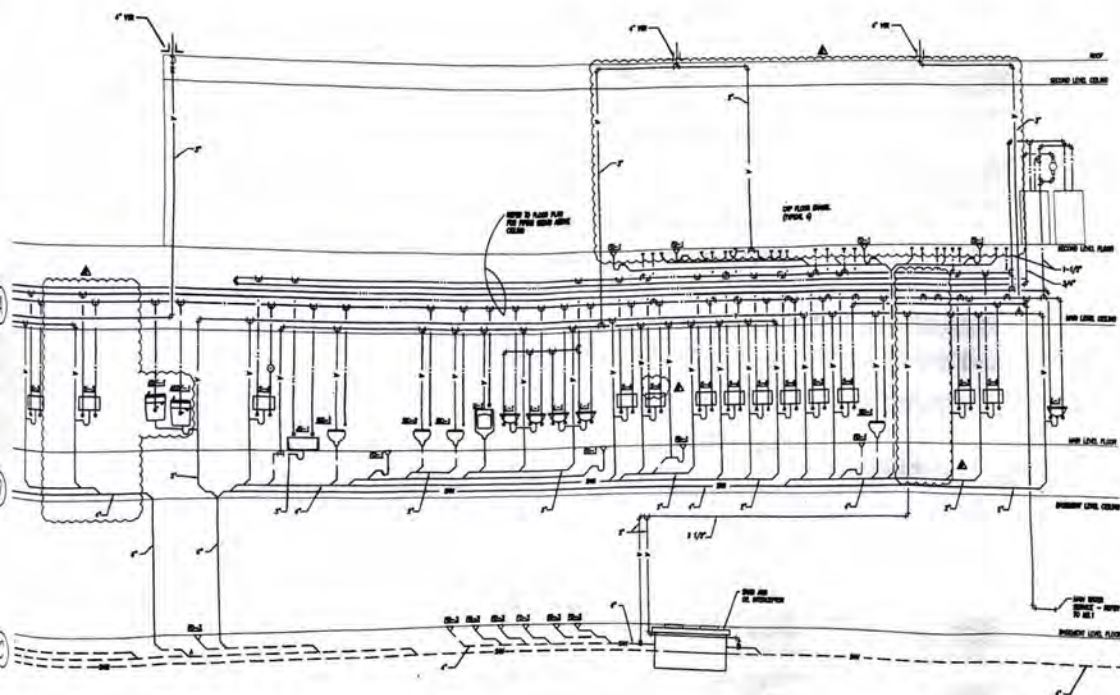
SEAL OF THE CITY OF KANSAS CITY, MISSOURI
JANUARY 1993

NEVILLE SHARP & SIMON
Architects
108 WEST POTTSMER STREET, KANSAS CITY, MISSOURI 64101 (816) 452-3000

Cabot Westside Health Center
SAINT LUKAS HEALTH SYSTEM
3001 EAST POKANAWA ST., KANSAS CITY, MISSOURI

JOB TITLE
CAROT WESTSIDE HEALTH CENTER

M2.3

[illegible][illegible]

CHANGES REVIEWED FOR CODE COMPLIANCE
To Building Permit # _____

SPECIAL INSPECTION REQUIRED AS
PREVIOUSLY SPECIFIED
Codes Administration Department
City of Kansas City, Missouri
Director of Codes Administration

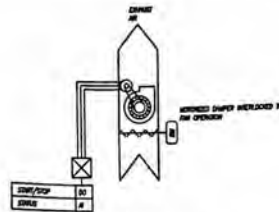
NEVILLE SHARP & SIMON
INC.
Architects
300 WEST PUEBLO BLVD. FRONT, KANSAS CITY, MISSOURI 64108 (816) 442-3000

**Cabot Westside
Health Center**
SAINT LUKES HEALTH SYSTEM
1001 N. WEST PERRYWAY ST., KANSAS CITY, MISSOURI 64108

JOB TITLE
CABOT
WESTSIDE
HEALTH CENTER

M2.4

PROJECT # DRAWING BY CHECKED BY	PROJECT #	100-100-100-100
	DRAWING BY	100-100-100-100
ISSUE DATE	REVISION	1/1/00
1/1/00	1/1/00	1/1/00
<p>NEVILLE SHARP & SIMON INC. <i>Architects</i></p>		
<p>Cabot Westside Health Center 100-100-100-100</p>		
<p>JOB TITLE CABOT WESTSIDE HEALTH CENTER</p>		



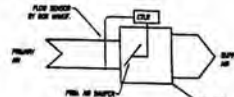
EXHAUST FAN SCHEMATIC

NOT TO SCALE

SEQUENCE OF OPERATION

DURING NORMAL OPERATION, THE EXHAUST FAN SHALL BE OPERATED BY THE EXHAUST FAN SWITCH. THE EXHAUST FAN SHALL BE OPERATED BY THE EXHAUST FAN SWITCH. THE EXHAUST FAN SHALL BE OPERATED BY THE EXHAUST FAN SWITCH.

DURING THE OCCUPIED MODE OF OPERATION, THE FAN SHALL BE OPERATED BY THE EXHAUST FAN SWITCH. THE EXHAUST FAN SHALL BE OPERATED BY THE EXHAUST FAN SWITCH. THE EXHAUST FAN SHALL BE OPERATED BY THE EXHAUST FAN SWITCH.



VAV BOX SCHEMATIC

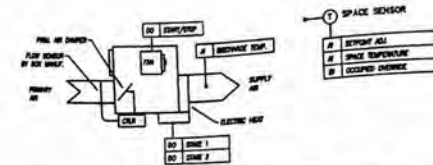
NOT TO SCALE

SEQUENCE OF OPERATION

THE OCCUPIED/UNOCCUPIED MODE OF OPERATION OF EACH VAV BOX SHALL BE DETERMINED BY THE SPACE SENSOR. THE SPACE SENSOR SHALL BE OPERATED BY THE SPACE SENSOR. THE SPACE SENSOR SHALL BE OPERATED BY THE SPACE SENSOR.

DURING THE OCCUPIED MODE OF OPERATION, THE PRIMARY AIR SHUTTER SHALL BE OPENED TO ALLOW THE SELECTED SPACE OCCUPANCY. THE SPACE SENSOR SHALL BE OPERATED BY THE SPACE SENSOR. THE SPACE SENSOR SHALL BE OPERATED BY THE SPACE SENSOR.

DURING THE UNOCCUPIED MODE OF OPERATION, THE PRIMARY AIR SHUTTER SHALL BE CLOSED. THE SPACE SENSOR SHALL BE OPERATED BY THE SPACE SENSOR. THE SPACE SENSOR SHALL BE OPERATED BY THE SPACE SENSOR.



FAN POWERED BOX WITH ELECTRIC HEAT SCHEMATIC

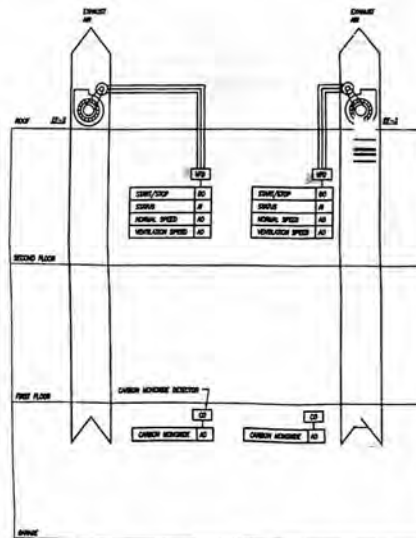
NOT TO SCALE

SEQUENCE OF OPERATIONS

THE OCCUPIED/UNOCCUPIED MODE OF OPERATION OF EACH FAN POWERED BOX SHALL BE DETERMINED BY THE SPACE SENSOR. THE SPACE SENSOR SHALL BE OPERATED BY THE SPACE SENSOR. THE SPACE SENSOR SHALL BE OPERATED BY THE SPACE SENSOR.

DURING THE OCCUPIED MODE OF OPERATION, THE PRIMARY AIR SHUTTER SHALL BE OPENED TO ALLOW THE SELECTED SPACE OCCUPANCY. THE SPACE SENSOR SHALL BE OPERATED BY THE SPACE SENSOR. THE SPACE SENSOR SHALL BE OPERATED BY THE SPACE SENSOR.

DURING THE UNOCCUPIED MODE OF OPERATION, THE PRIMARY AIR SHUTTER SHALL BE CLOSED. THE SPACE SENSOR SHALL BE OPERATED BY THE SPACE SENSOR. THE SPACE SENSOR SHALL BE OPERATED BY THE SPACE SENSOR.



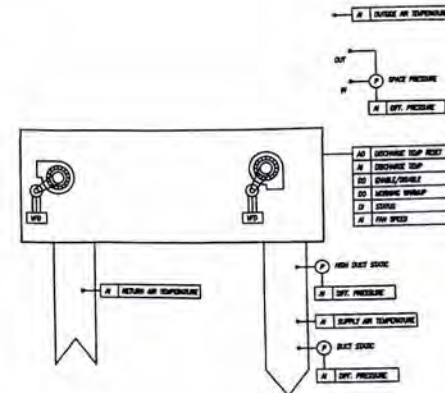
GARAGE EXHAUST SYSTEM

NOT TO SCALE

SEQUENCE OF OPERATION

DURING NORMAL OPERATION, THE EXHAUST FAN SHALL BE OPERATED BY THE EXHAUST FAN SWITCH. THE EXHAUST FAN SHALL BE OPERATED BY THE EXHAUST FAN SWITCH. THE EXHAUST FAN SHALL BE OPERATED BY THE EXHAUST FAN SWITCH.

DURING THE OCCUPIED MODE OF OPERATION, THE EXHAUST FAN SHALL BE OPERATED BY THE EXHAUST FAN SWITCH. THE EXHAUST FAN SHALL BE OPERATED BY THE EXHAUST FAN SWITCH. THE EXHAUST FAN SHALL BE OPERATED BY THE EXHAUST FAN SWITCH.



PACKAGED ROOFTOP UNIT SCHEMATIC (RTU-1&2)

NOT TO SCALE

PLEASE NOTE: NOT ALL POINTS ARE SHOWN ON SCHEMATIC. THE ROOFTOP UNIT SHALL BE CONTROLLED AS SPECIFIED UNDER UNIT'S AUTOMATIC TEMPERATURE CONTROLS - SET AND SHALL NOT BE BY THE UNIT MANUFACTURER.

THE OCCUPIED/UNOCCUPIED MODE OF OPERATION SHALL BE DETERMINED BY THE SPACE SENSOR. THE SPACE SENSOR SHALL BE OPERATED BY THE SPACE SENSOR. THE SPACE SENSOR SHALL BE OPERATED BY THE SPACE SENSOR.

DURING THE OCCUPIED MODE OF OPERATION, THE SUPPLY FAN SHALL OPERATE CONTINUOUSLY. THE SUPPLY FAN SHALL BE OPERATED BY THE SPACE SENSOR. THE SPACE SENSOR SHALL BE OPERATED BY THE SPACE SENSOR.

DURING THE UNOCCUPIED MODE OF OPERATION, THE SUPPLY FAN SHALL BE OPERATED BY THE SPACE SENSOR. THE SPACE SENSOR SHALL BE OPERATED BY THE SPACE SENSOR. THE SPACE SENSOR SHALL BE OPERATED BY THE SPACE SENSOR.

THE EXHAUST/RELAY FAN SHALL BE OPERATED BY THE SPACE SENSOR. THE SPACE SENSOR SHALL BE OPERATED BY THE SPACE SENSOR. THE SPACE SENSOR SHALL BE OPERATED BY THE SPACE SENSOR.

DURING THE UNOCCUPIED MODE OF OPERATION, THE UNIT FAN SHALL BE OFF. THE OUTSIDE AIR SHUTTER SHALL BE CLOSED. THE RETURN AIR SHUTTER SHALL BE OPEN. THE RETURN AIR SHUTTER SHALL BE OPEN.

A STATIC PRESSURE SENSOR LOCATED IN THE OUTSIDE AIR SHUTTER SHALL BE OPERATED BY THE SPACE SENSOR. THE SPACE SENSOR SHALL BE OPERATED BY THE SPACE SENSOR. THE SPACE SENSOR SHALL BE OPERATED BY THE SPACE SENSOR.

SHUTDOWN UNIT UPON ALARM OF UNIT/RELAY FAN. SHUT DOWN UNIT. SHUT DOWN UNIT. SHUT DOWN UNIT. SHUT DOWN UNIT. SHUT DOWN UNIT.

PROJECT # 2723
DRAWN BY JES
CHECKED BY JES
DATE 1/18/03
REVISIONS

NEVILLE SHARP & SIMON
Architects
100 WEST POCOMONOCUT STREET, NARRAGANSETT, RHODE ISLAND 02882
TEL: 401-781-0000

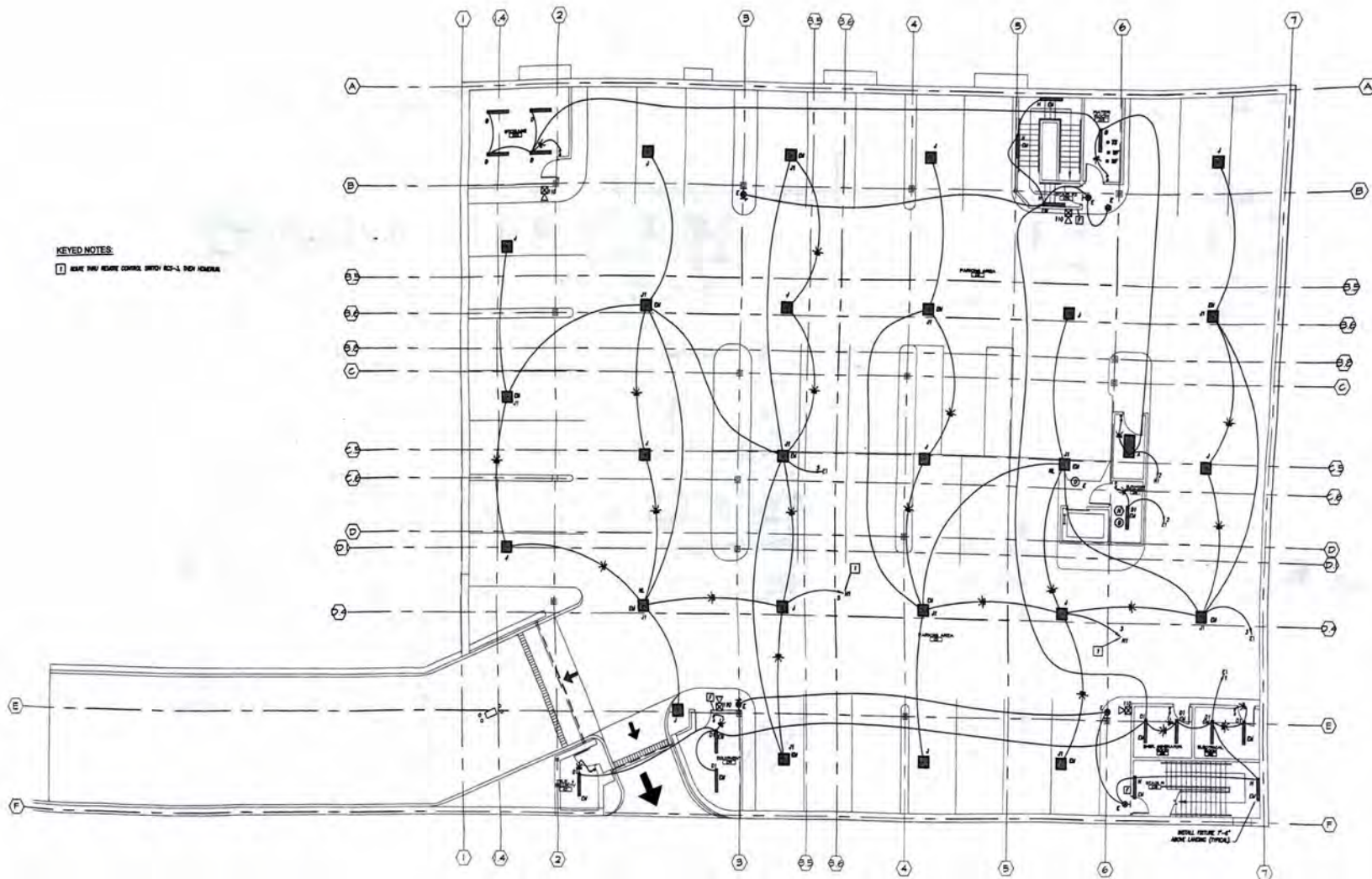
Cabot Westside
Health Center
HEALTH SYSTEM
SARASOTA, FL 34236

JOB TITLE
CABOT WESTSIDE
HEALTH CENTER

M3.3

KEYED NOTES:

1. REAR VIEW MOUNT CONTROL UNIT 800-1, 800-2, 800-3, 800-4



PARKING LEVEL PLAN - LIGHTING
1/10

GENERAL NOTES:

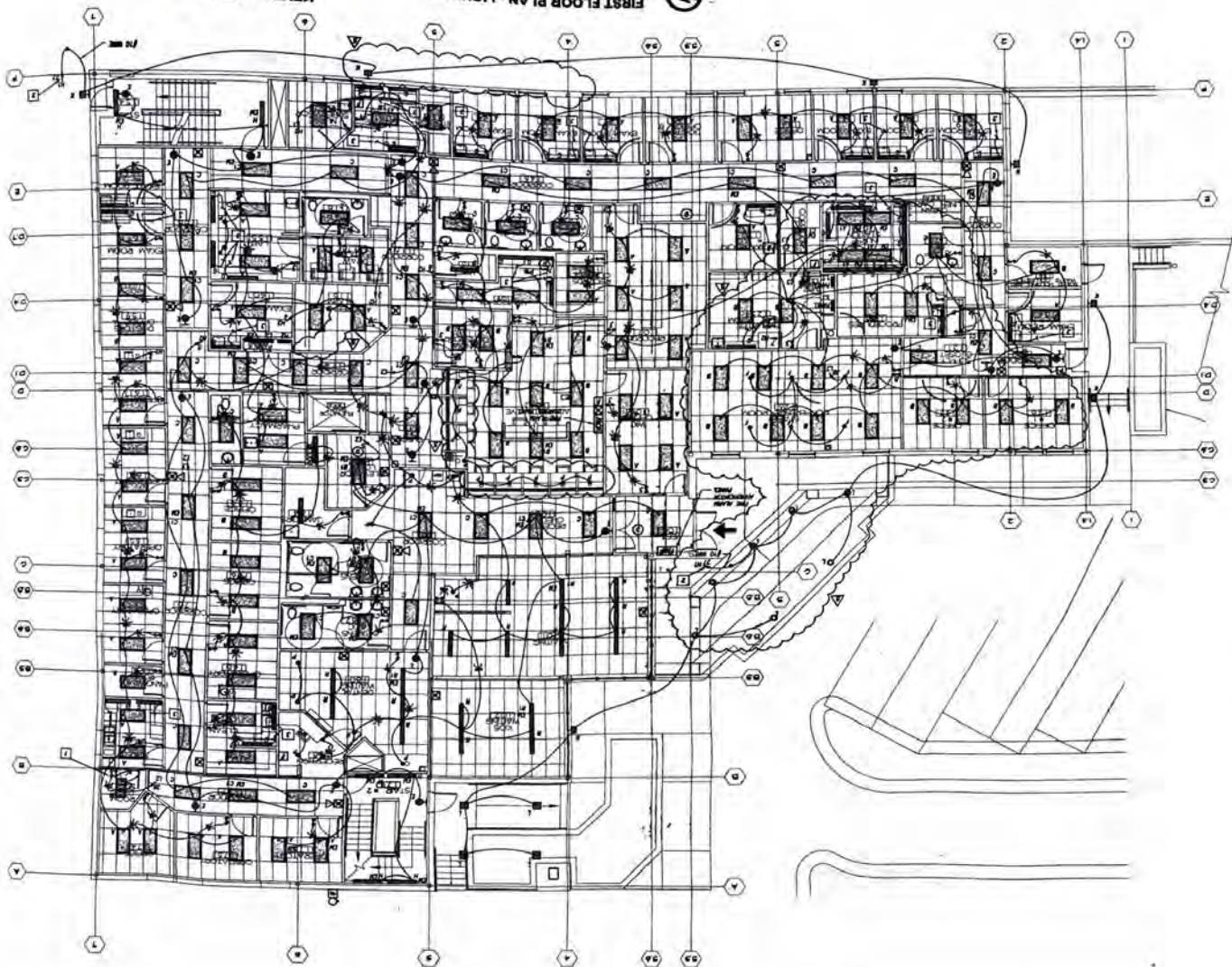
ALL INFORMATION CONTAINED HEREIN IS UNCLASSIFIED
DATE 08-10-2001 BY 60322 UCBAW/SJS

THESE ARE THE NAMES OF THE PERSONS WHO WERE
IN THE ROOM AT THE TIME OF THE SHOOTING.
THEY WERE ALL THERE WHEN THE SHOOTING TOOK PLACE.

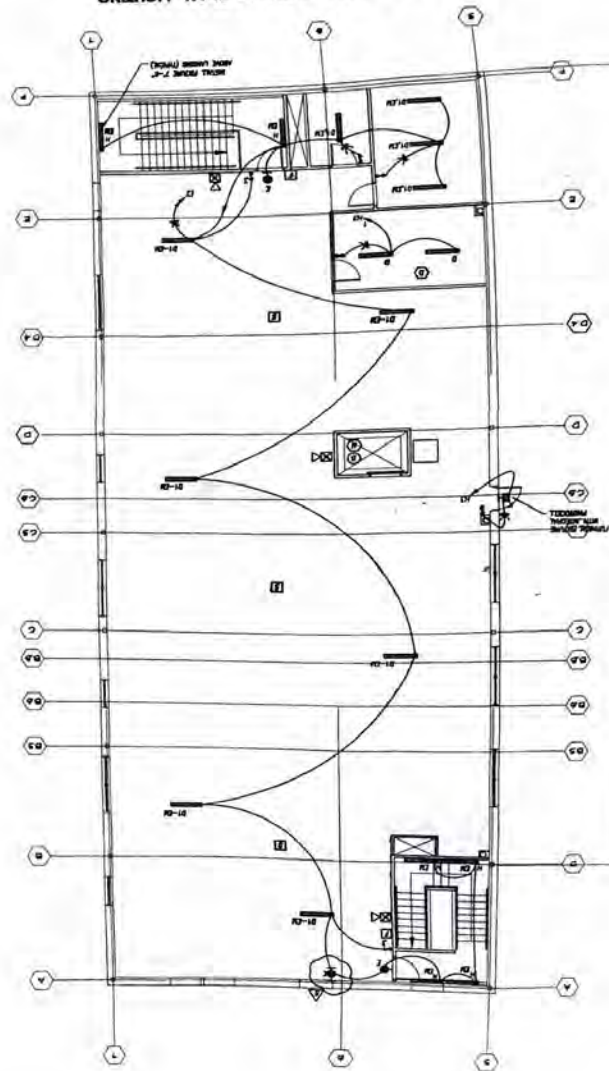
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KEYED NOTES:

FIRST FLOOR PLAN - LIGHTING



SECOND FLOOR PLAN - LIGHTING



PROJECT # 273
 DRAWN BY JES
 CHECKED BY JES
 DATE 12/8/78
 REVISION

NEVILLE SHARP & SIMON
 Architects
 100 WEST FORTIFICATION STREET, KANSAS CITY, MISSOURI 64105

Cabot Westside Health Center
 HEALTH SYSTEM

JOB TITLE
 CABOT WESTSIDE HEALTH CENTER

ELEVATOR SHUTDOWN

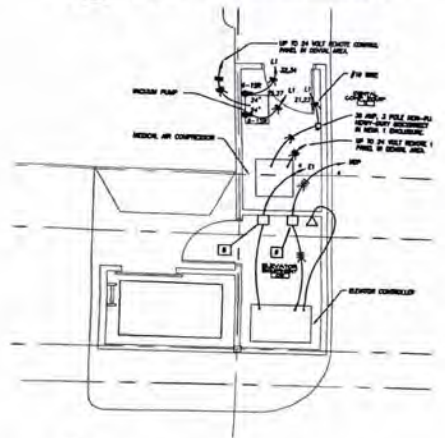
THE SHUTDOWN OF ELEVATORS FOR ELEVATOR RECALL AND SHUTDOWN SHALL BE AS FOLLOWS:

1. THE ACTIVATION OF SHUNT DETECTORS UNDER THE ELEVATOR SHALTIMAN SHALL ELEVATOR SHUT OFF THE ELEVATOR SHUT OFF SHALL ELEVATOR RECALL.
2. THE ACTIVATION OF THE FIRST DETECTOR UNDER THE ELEVATOR SHALTIMAN SHALL ELEVATOR SHUT OFF THE ELEVATOR SHUT OFF SHALL ELEVATOR RECALL.

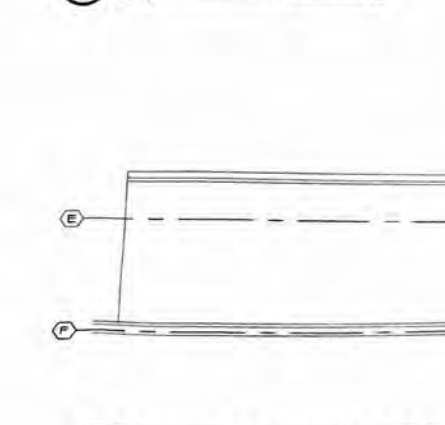
KEYED NOTES:

1. BREAK IN AND CORRECT PER MANUFACTURER'S RECOMMENDATION.
2. METAL LANT AND RECEPTACLE SHALL BE SHOWN.
3. METAL LANT AND RECEPTACLE SHALL BE SHOWN.
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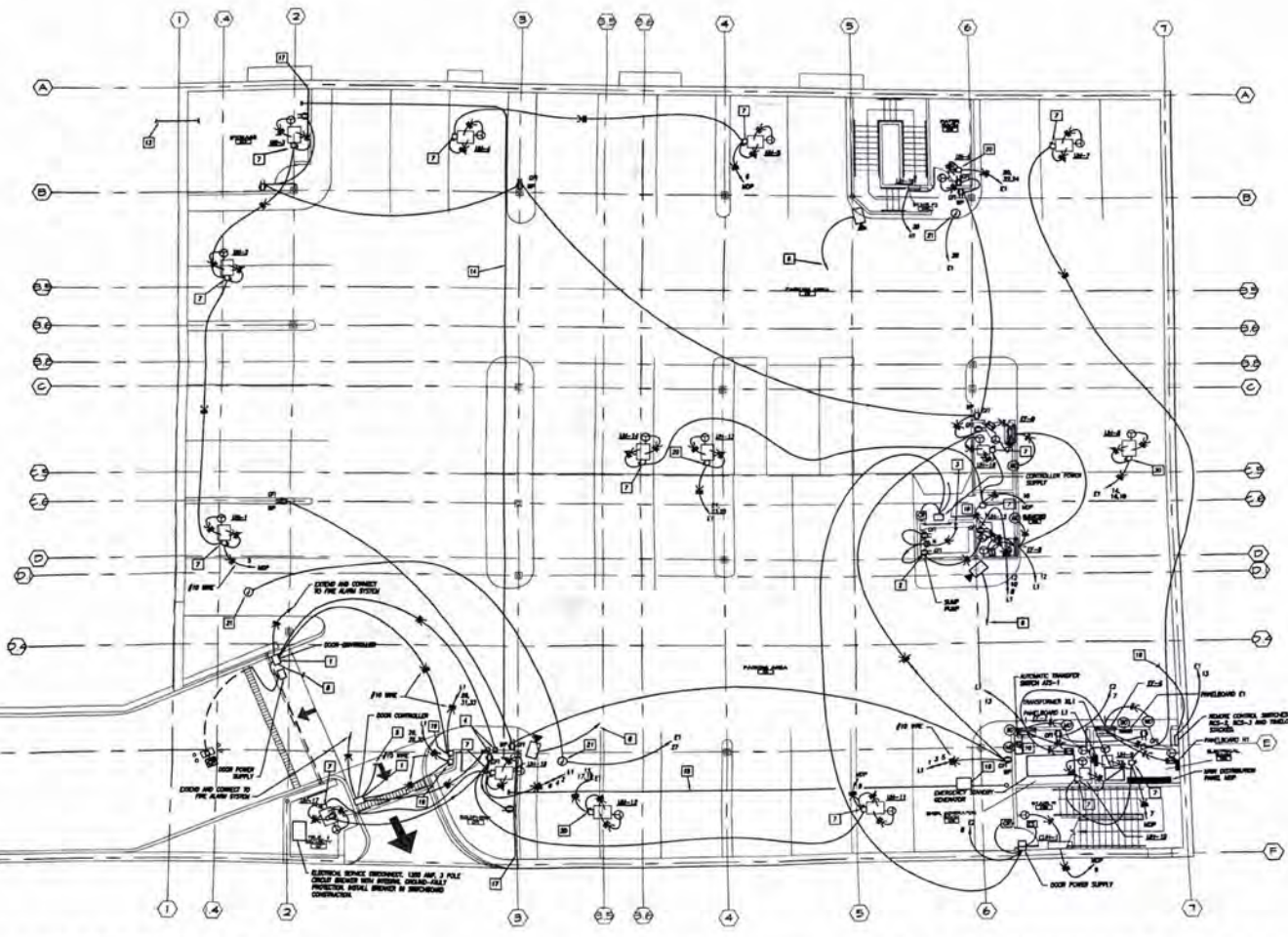
ENLARGED PARTIAL POWER PLAN
 1/4" = 1'-0"



ENLARGED PARTIAL POWER PLAN
 1/4" = 1'-0"



PARKING LEVEL PLAN - POWER
 1/4" = 1'-0"



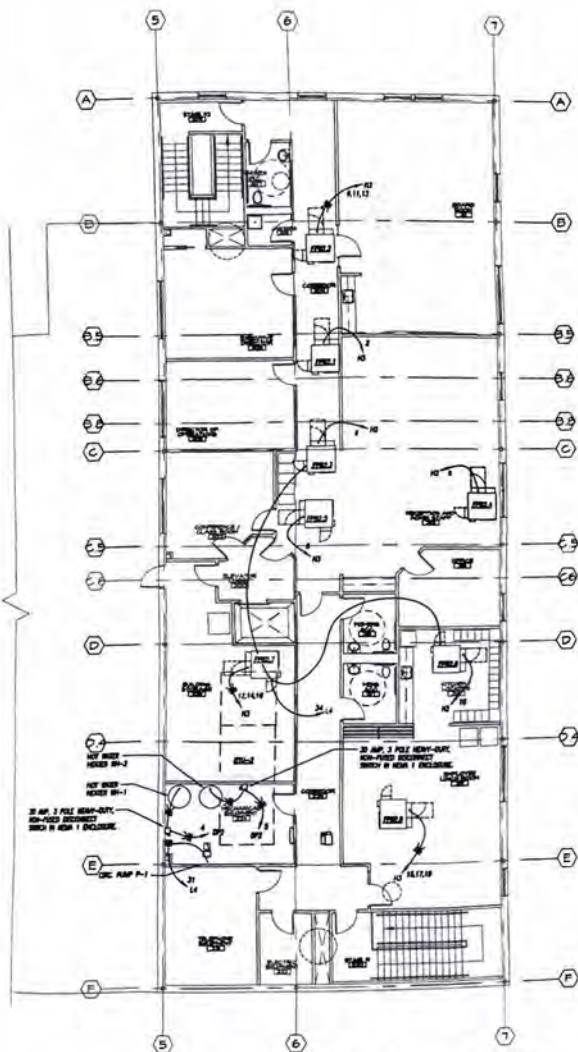
1. ELECTRICAL CONDUIT SHALL FURNISH AND INSTALL A MINIMUM OF TWO (2) 1/2" CONDUIT ELBOWS BETWEEN EACH ROOM AND CORRIDOR AND BETWEEN EACH ROOM FOR ROUTING OF TELEPHONE/DATA CABLES. METAL SHAVE HOODS CEILING. FURNISH CONDUITS WITH ELBOWED CHOK.

1. **JOHN RELIEVE PLACEMENT** IS AN ESSENTIAL
DISCREETIONARY AUTHORITY IN A SITUATION WHERE
SOMEONE MUST BE IN A POSITION TO TAKE OVER
SOMEONE'S DUTIES FOR A SHORT PERIOD OF TIME.
THIS IS USUALLY DONE TO COVER A VACATION
OR A SITUATION WHERE A PERSON IS ON
LEAVE. IT IS NOT A POSITION OF RESPONSIBILITY
AND DOES NOT INVOLVE ANY SPECIAL
TRAINING OR EXPERIENCE. IT IS A POSITION
OF RESPONSIBILITY AND DOES INVOLVE
SOME SPECIAL TRAINING AND EXPERIENCE.
2. **STANDARD**
3. **JOHN RELIEVE PLACEMENT** IS USUALLY
DONE IN A SITUATION WHERE A PERSON
IS ON LEAVE. IT IS NOT A POSITION OF
RESPONSIBILITY AND DOES NOT INVOLVE
ANY SPECIAL TRAINING OR EXPERIENCE.
4. **JOHN RELIEVE PLACEMENT** IS USUALLY
DONE IN A SITUATION WHERE A PERSON
IS ON LEAVE. IT IS NOT A POSITION OF
RESPONSIBILITY AND DOES NOT INVOLVE
ANY SPECIAL TRAINING OR EXPERIENCE.
5. **JOHN RELIEVE PLACEMENT** IS USUALLY
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IS ON LEAVE. IT IS NOT A POSITION OF
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6. **JOHN RELIEVE PLACEMENT** IS USUALLY
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7. **JOHN RELIEVE PLACEMENT** IS USUALLY
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8. **JOHN RELIEVE PLACEMENT** IS USUALLY
DONE IN A SITUATION WHERE A PERSON
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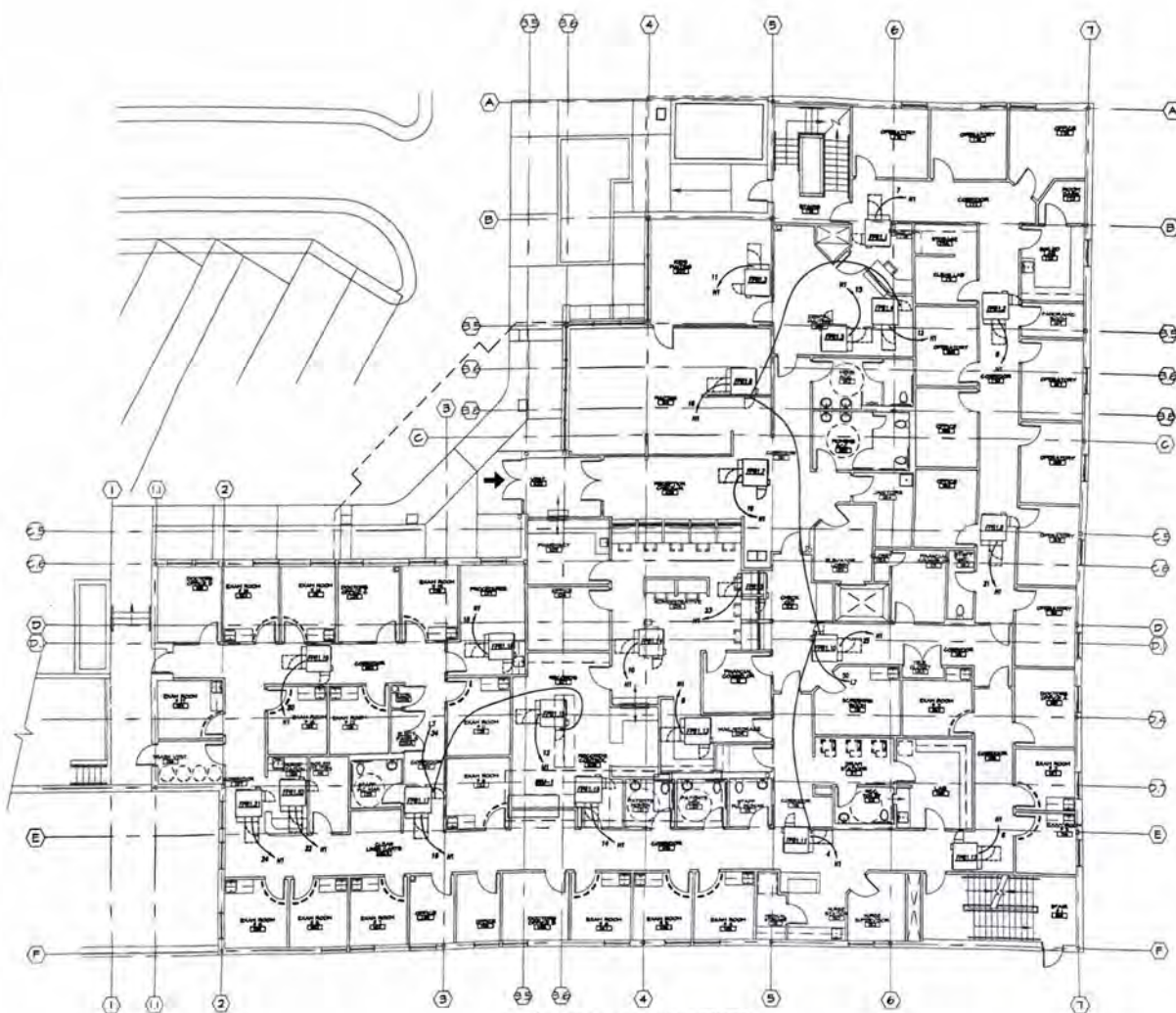
- [illegible]



AF
TERR LLO
ER 04214
AYZ.SADY



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



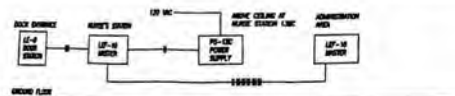
FIRST FLOOR PLAN - POWER
1/8" = 1'-0"

[illegible][illegible]

DISTANCE			IONOSPHERIC DATA			VOLTAJE	STATION	LOCATION
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1	TRANSMITTER SW	2	160	160				
2	TRANSMITTER SW	2	160	160				
3	RECEIVER SW	2	160	160				
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70	RECEIVER SW	2	160	160				
71								

ICS NUMBER	FOLLY NUMBER	CONTROL DATA			LOAD DATA		NOTES
		VOLTAG	CUR	PHASE/ANG	VOLTAG	PHASE/ANG & CIRCUITS CONTROLLED	
ICS-1	0	130	13	01	277	11-PM and 10	PHASELOCK ON/PHASELOCK OFF
ICS-0	0	130	12	01	277	11-11 and 87	PHASELOCK ON/PHASELOCK OFF
ICS-2	0	130	12	01	277	11-12 and 87	PHASELOCK ON/PHASELOCK OFF

NOTE:
 IF YOU CAN, PROVIDE MATERIAL IN BOTH 1 ENCLOSURE WITH ORIGINAL AND MATCH IN COLOR, FURNISH ENCLOSURE WITH ANGLED FRONT COVER.

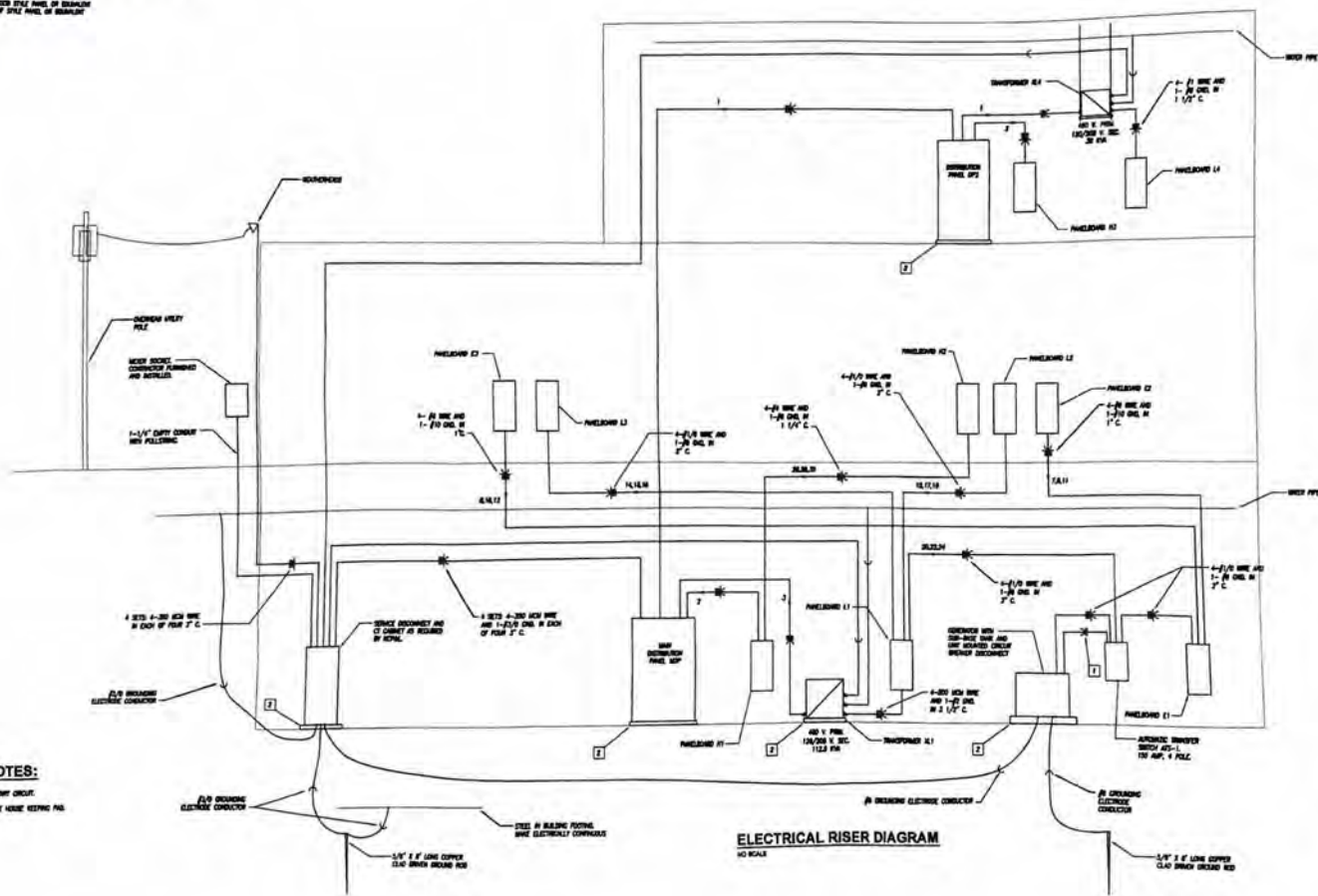


NOTE TO SUBMITTING THE SHEET

FURNISH AND INSTALL APPROX 11' EIGHTH INTERCOM SYSTEM. SYSTEM SHALL INCLUDE APPROX 120-18 WATTERS STATIONS, 12-50 AMPERE SEALED BEAMER RECHARGE BATTERY CHARGING, AND 5P-12C 12-60VDC AC POWER SUPPLY. TYPICAL SHALL BE CAPABLE OF UP TO ELEVEN (11) STATIONS (COMBINATION OF BOTH WIRELESS AND DOOR STATIONS). WIRING IS NOT SHOWN ON THE PLANS, BUT SHALL BE DEVELOPED AS NECESSARY FOR A COMPLETE AND OPERATIONAL SYSTEM. ALL WIRING SHALL BE INSTALLED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE.

INCOMING CALLS SHALL BE ANSWERED BY EACH MASTER STATION
AND EACH MASTER STATION BE CAPABLE OF RESPONDING TO ALL
HANDICAPS AND MASTER STATIONS.

1 TO GENERATOR START CIRCUIT.
2 3-1/8" CONCRETE MASONRY KEEPING PAD.



LIGHT FIXTURE SCHEDULE

FXLT. TYPE	MANUF.	CATALOG NUMBER	DESCRIPTION
A	WILLIAMS	SERIES 300	2'x4' STATIC GRID TROFFER FOR FOUR (4) 32 WATT 48" FLUORESCENT T8 LAMPS. .125" THICK A12 ACRYLIC PRISMATIC LENS. SPRING LOADED CAM ACTION LATCHES. STEEL FIXTURE DOOR WITH MITERED CORNERS. ALL FIXTURE STEEL PAINTED WHITE AFTER FABRICATION. 277 VOLT OPERATION.
A1	WILLIAMS	SERIES 300	2'x4' STATIC GRID TROFFER FOR FOUR (4) 32 WATT 48" FLUORESCENT T8 LAMPS. .125" THICK A12 ACRYLIC PRISMATIC LENS. SPRING LOADED CAM ACTION LATCHES. STEEL FIXTURE DOOR WITH MITERED CORNERS. ALL FIXTURE STEEL PAINTED WHITE AFTER FABRICATION. WHERE FIXTURE IS LABELED "TY", CONNECT TO EMERGENCY CIRCUIT. 120 VOLT OPERATION.
B	WILLIAMS	SERIES 300	2'x4' STATIC GRID TROFFER FOR THREE (3) 32 WATT 48" FLUORESCENT T8 LAMPS. .125" THICK A12 ACRYLIC PRISMATIC LENS. SPRING LOADED CAM ACTION LATCHES. STEEL FIXTURE DOOR WITH MITERED CORNERS. ALL FIXTURE STEEL PAINTED WHITE AFTER FABRICATION. 277 VOLT OPERATION.
B1	WILLIAMS	SERIES 300	2'x4' STATIC GRID TROFFER FOR THREE (3) 32 WATT 48" FLUORESCENT T8 LAMPS. .125" THICK A12 ACRYLIC PRISMATIC LENS. SPRING LOADED CAM ACTION LATCHES. STEEL FIXTURE DOOR WITH MITERED CORNERS. ALL FIXTURE STEEL PAINTED WHITE AFTER FABRICATION. WHERE FIXTURE IS LABELED "TY", CONNECT TO EMERGENCY CIRCUIT. 120 VOLT OPERATION.
C	WILLIAMS	SERIES 300	2'x4' STATIC GRID TROFFER FOR TWO (2) 32 WATT 48" FLUORESCENT T8 LAMPS. .125" THICK A12 ACRYLIC PRISMATIC LENS. SPRING LOADED CAM ACTION LATCHES. STEEL FIXTURE DOOR WITH MITERED CORNERS. ALL FIXTURE STEEL PAINTED WHITE AFTER FABRICATION. 277 VOLT OPERATION.
C1	WILLIAMS	SERIES 300	2'x4' STATIC GRID TROFFER FOR TWO (2) 32 WATT 48" FLUORESCENT T8 LAMPS. .125" THICK A12 ACRYLIC PRISMATIC LENS. SPRING LOADED CAM ACTION LATCHES. STEEL FIXTURE DOOR WITH MITERED CORNERS. ALL FIXTURE STEEL PAINTED WHITE AFTER FABRICATION. WHERE FIXTURE IS LABELED "TY", CONNECT TO EMERGENCY CIRCUIT. 120 VOLT OPERATION.
D	WILLIAMS	SERIES 77	4' SNIP FLUORESCENT LIGHT FIXTURE FOR TWO (2) 48" 32 WATT 18 FLUORESCENT LAMPS. FIXTURE SHALL BE PERMANENTLY MOUNTED AT HEIGHT OF 8'-4" ABOVE FINISHED FLOOR. FLUORESCENT FIXTURE WITH WIRE GUARD. ALL FIXTURE STEEL PAINTED WHITE AFTER FABRICATION. 277 VOLT OPERATION.
D1	WILLIAMS	SERIES 77	4' SNIP FLUORESCENT LIGHT FIXTURE FOR TWO (2) 48" 32 WATT 18 FLUORESCENT LAMPS. FIXTURE SHALL BE PERMANENTLY MOUNTED AT HEIGHT OF 8'-4" ABOVE FINISHED FLOOR. FLUORESCENT FIXTURE WITH WIRE GUARD. ALL FIXTURE STEEL PAINTED WHITE AFTER FABRICATION. 120 VOLT OPERATION. WHERE FIXTURE IS LABELED "TY", CONNECT TO EMERGENCY CIRCUIT.
E	LITHONIA	LES SERIES	LED LAMP EXIT SIGN, SINGLE OR DOUBLE FACE AND WITH DIRECTION ARROWS AS INDICATED ON DRAWINGS. PANEL COLOR RED WITH OFFICE PANEL DESIGN. FURNISH WITH MOUNTING BRACKET FOR BACK, TOP, OR END MOUNTING. 120 VOLT OPERATION.
F	INFINITY	AND	6" ROUND APERTURE RECESSED DOWNLIGHT FOR ONE (1) 10 WATT A19 INCANDESCENT LAMP. CLEAR ALZAK REFLECTOR. SELF-FLANGED TRIM. FURNISH AND INSTALL ALL NECESSARY MOUNTING HARDWARE AND BRACKETS. 120 VOLT OPERATION. U/L LISTED DAMP LOCATION.
G	WILLIAMS	SERIES 13F	4' UNDER CABINET LOW PROFILE FIXTURE FOR TWO (2) T13 TO FLUORESCENT LAMPS. 20 GAUGE COILS WELDED STEEL CONSTRUCTION. FINISH POST ACTED BRACKET WHITE CHROME. SOLID FRONT. FLAT, CLEAR ACRYLIC PRISMATIC LENS. 120 VOLT OPERATION. U/L LISTED DAMP LOCATION. 1 1/8" DEEP FIXTURE. FURNISH WITH REMOTE SWITCH.
G1	WILLIAMS	SERIES 13F	SAME AS TYPE "G" FIXTURE EXCEPT FURNISH 3" FIXTURE FOR ONE (1) T8 T5 AND ONE (1) T13 TO FLUORESCENT LAMP.
G2	WILLIAMS	SERIES 13F	SAME AS TYPE "G" FIXTURE EXCEPT FURNISH 3" FIXTURE FOR ONE (1) T13 TO FLUORESCENT LAMP.
H	WILLIAMS	SERIES 28	4' WALL MOUNTED UP/DOWN LIGHT FOR TWO (2) 48" 32 WATT 18 FLUORESCENT LAMPS. WHERE FIXTURE IS LABELED "TY", CONNECT TO EMERGENCY CIRCUIT.
J	COLUMBIA	PH22	2' x 2' RECESSED TWO FIXTURE FOR MOUNTING IN GRID CEILING. FIXTURE FOR ONE (1) T13 175 WATT METAL HALIDE LAMP. CODE GAUGE STEEL HOUSING. WHITE POLYESTER POST PAINTED FINISH. 18 GAUGE STEEL DOOR. FURNISH WITH TAMPERS GLASS PATTERNS T3 SHIELDS. 277 VOLT HFF BALLAST.
J1	COLUMBIA	PH22	2' x 2' RECESSED TWO FIXTURE FOR MOUNTING IN GRID CEILING. FIXTURE FOR ONE (1) T13 175 WATT METAL HALIDE LAMP. CODE GAUGE STEEL HOUSING. WHITE POLYESTER POST PAINTED FINISH. 18 GAUGE STEEL DOOR. FURNISH WITH TAMPERS GLASS PATTERNS T3 SHIELDS. 277 VOLT HFF BALLAST.
K	LITHONIA	FWC SERIES	MINI WALL MOUNTED CLUTCH FIXTURE FOR ONE (1) 100 WATT METAL HALIDE LAMP. CORROSION-RESISTANT DIE-CAST ALUMINUM HOUSING. ONE-PIECE UH-RESISTANT INJECTION MOLDED POLYCARBONATE. INTERNALLY PAINTED FRONT COVER. ONE-PIECE ALUMINUM DIE-FORMED REFLECTOR. CLEAR POLYCARBONATE REFLECTOR. HIGH POWER FACTOR BALLAST. U/L LISTED WET LOCATION. FINISH AS DIRECTED BY THE ARCHITECT. 277 VOLT OPERATION.
K1	LITHONIA	FWC SERIES	MINI WALL MOUNTED CLUTCH FIXTURE FOR ONE (1) 100 WATT METAL HALIDE LAMP. CORROSION-RESISTANT DIE-CAST ALUMINUM HOUSING. ONE-PIECE UH-RESISTANT INJECTION MOLDED POLYCARBONATE. INTERNALLY PAINTED FRONT COVER. ONE-PIECE ALUMINUM DIE-FORMED REFLECTOR. CLEAR POLYCARBONATE REFLECTOR. HIGH POWER FACTOR BALLAST. U/L LISTED WET LOCATION. FINISH AS DIRECTED BY THE ARCHITECT. 277 VOLT OPERATION.
L	NAVY VERSION	R7330	RECESSED EXTERIOR HED DOWNLIGHT FOR ONE (1) 100 WATT METAL HALIDE LAMP. ELLIPSOIDAL PRIMARY REFLECTOR. MEDIUM DISTRIBUTION. TOP OR BOTTOM SOURCE. SPECULUM CLEAR ALZAK REFLECTOR. HIGH POWER FACTOR, DICHROIC AND PORTED BALLAST FOR -SOFT STARTING. FURNISH WITH ALL NECESSARY MOUNTING HARDWARE AND BRACKETS. 277 VOLT OPERATION. U/L LISTED DAMP LOCATION. FURNISH OPEN REFLECTOR DOORLENS. DO NOT FURNISH WITH LAMP SHIELD.
M	ALICO	E-3058-3	RECESSED INCANDESCENT DARK ROOM SAFELIGHT FIXTURE FOR TWO (2) 15 WATT A15 LAMPS AND ONE (1) 200 WATT A25 LAMP. 20 GAUGE STEEL CONSTRUCTION WITH CONTINUOUS PIANO FINISH FINISH. FURNISH FILTER TYPES AS REQUESTED BY OWNER.
N	APPLETON	PNV 10800	DIE-CAST FITTER FOR WALL OR CEILING MOUNT WITH A 60 WATT A-21 LAMP. GASHEATED GLASS GLOBE WITH GUARD. 120 VOLT OPERATION.
P	INFINITY	SERIES PH40	6" ROUND APERTURE RECESSED DOWNLIGHT FOR TWO (2) 35 WATT COMPACT FLUORESCENT LAMPS. HORIZONTAL MOUNT. CLEAR ALZAK REFLECTOR. FURNISH AND INSTALL ALL NECESSARY MOUNTING HARDWARE AND BRACKETS. 120 VOLT OPERATION. ELECTRONIC BALLAST.
O	LITHONIA	MONARCH KS71 250M R15	PARVING LOT LIGHT FIXTURE FOR ONE (1) 250 WATT ED-38 METAL HALIDE LAMP. LIGHTWEIGHT ALUMINUM HOUSING. EXTRUDED ALUMINUM DOORS WITH MITERED CORNERS AND QUICK-RELEASE FASTENER. WEATHERPROOF EXTRUDED SILICONE GASKETING. .135" THICK. IMPACT RESISTANT TAMPERS GLASS. TYPE IV FORWARD THROWN DISTRIBUTION. U/L LISTED WET LOCATION. HFF LOW TEMP. BALLAST. 277 VOLT OPERATION. BLACK POWDERCOAT FINISH. 25" SQUARE STRAIGHT ALUMINUM POLE.
O1	LITHONIA	MONARCH KS71 250M R15	PARVING LOT LIGHT FIXTURE FOR TRIM MOUNTING OF TWO FIXTURES. FURNISH EACH FIXTURE FOR ONE (1) 250 WATT ED-38 METAL HALIDE LAMP. LIGHTWEIGHT ALUMINUM HOUSING. EXTRUDED ALUMINUM DOORS WITH MITERED CORNERS AND QUICK-RELEASE FASTENER. WEATHERPROOF EXTRUDED SILICONE GASKETING. .135" THICK. IMPACT RESISTANT TAMPERS GLASS. TYPE IV FORWARD THROWN DISTRIBUTION. U/L LISTED WET LOCATION. HFF LOW TEMP. BALLAST. 277 VOLT OPERATION. BLACK POWDERCOAT FINISH. 25" SQUARE STRAIGHT ALUMINUM POLE. FURNISH WITH OPTIONAL TRIM MOUNTING BAR.

NOTE: CONTRACTOR TO FURNISH AND INSTALL FLANGE TRIM KITS FOR FIXTURES, AS REQUIRED, WHERE SAME ARE TO BE INSTALLED IN A HANG CEILING. REFER TO ARCHITECTURAL DRAWINGS FOR CEILING TYPES.

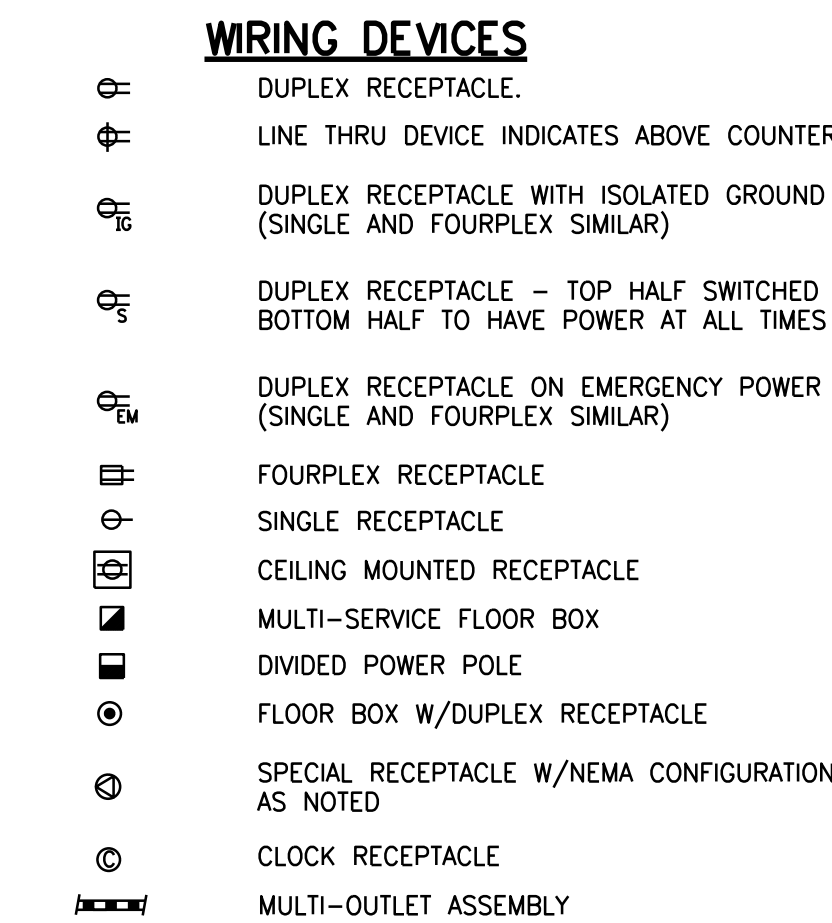
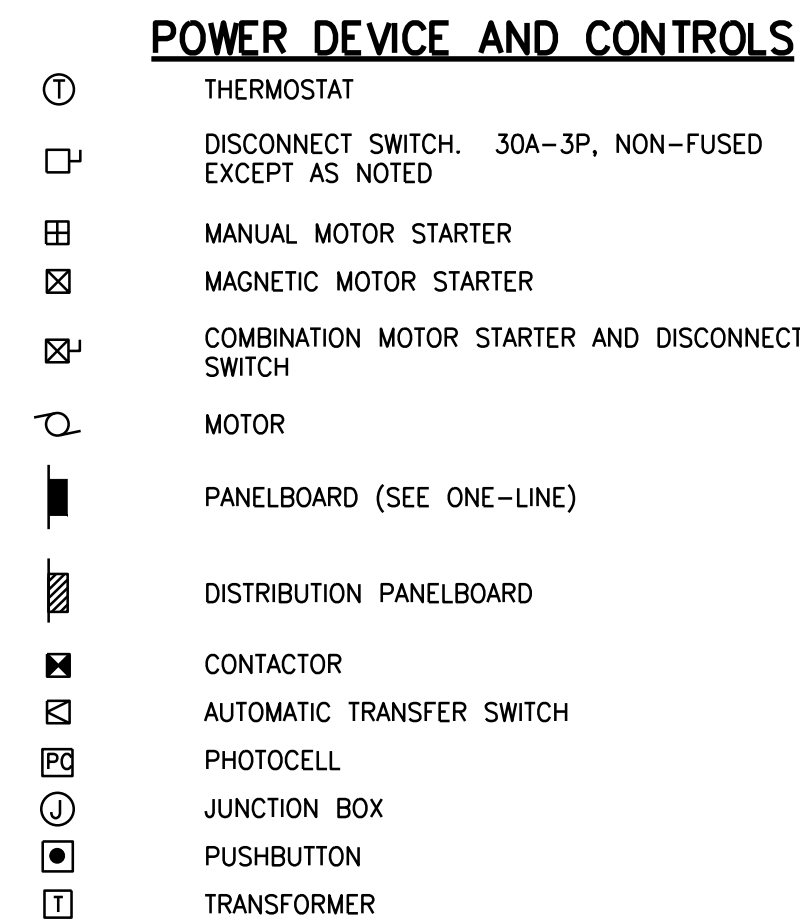
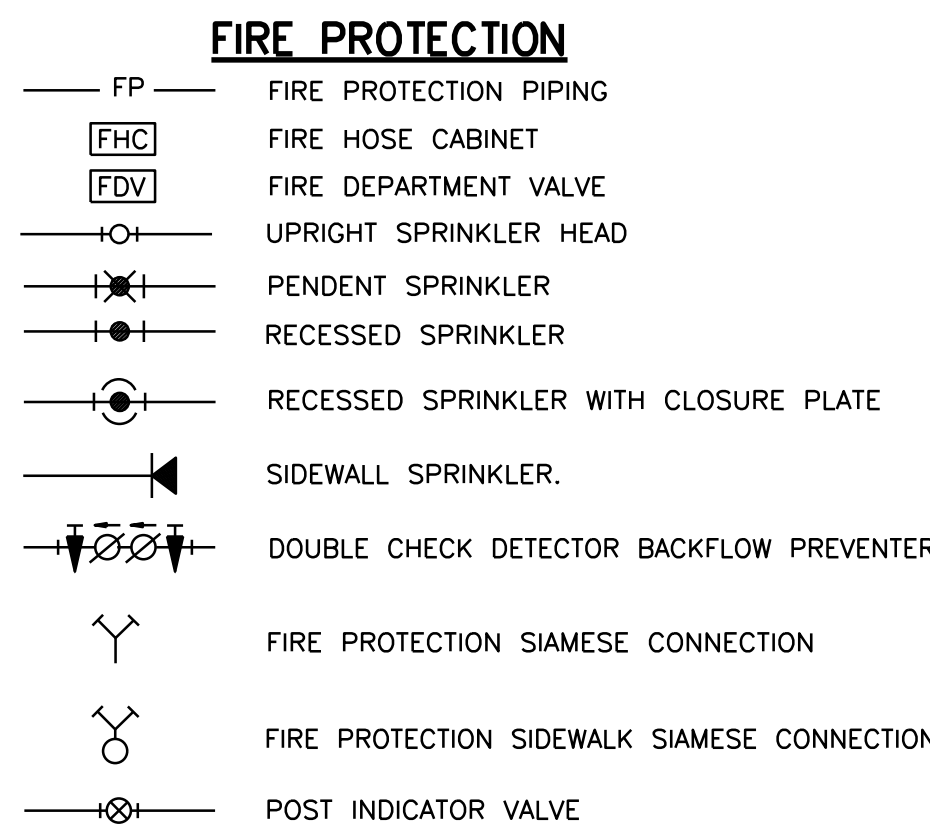
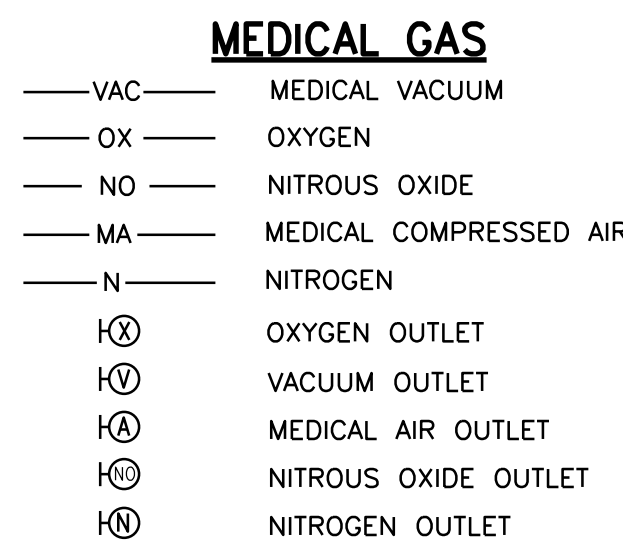
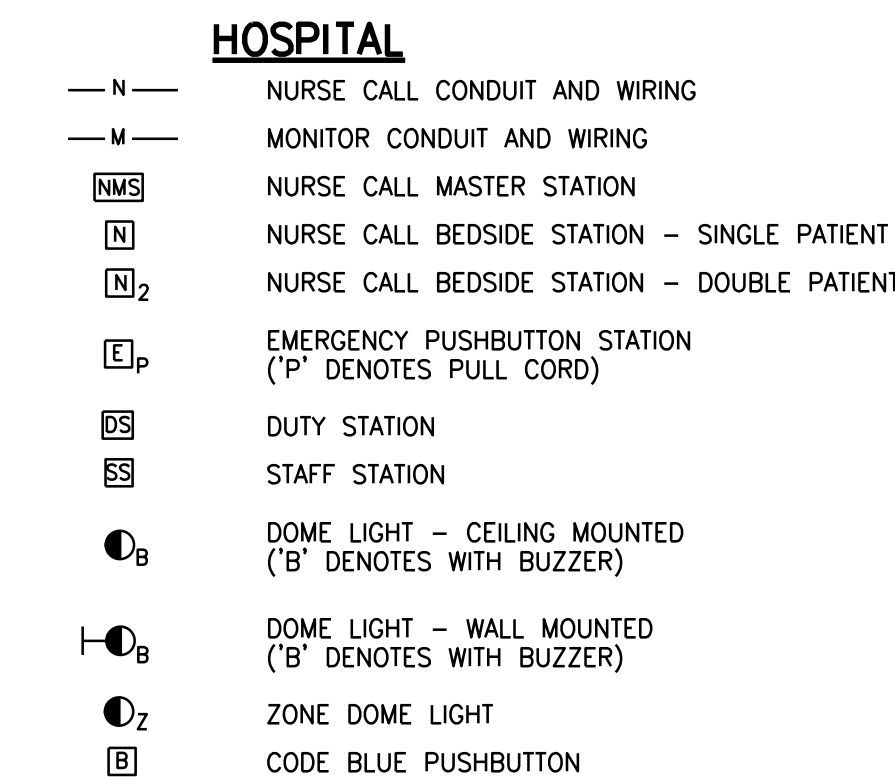
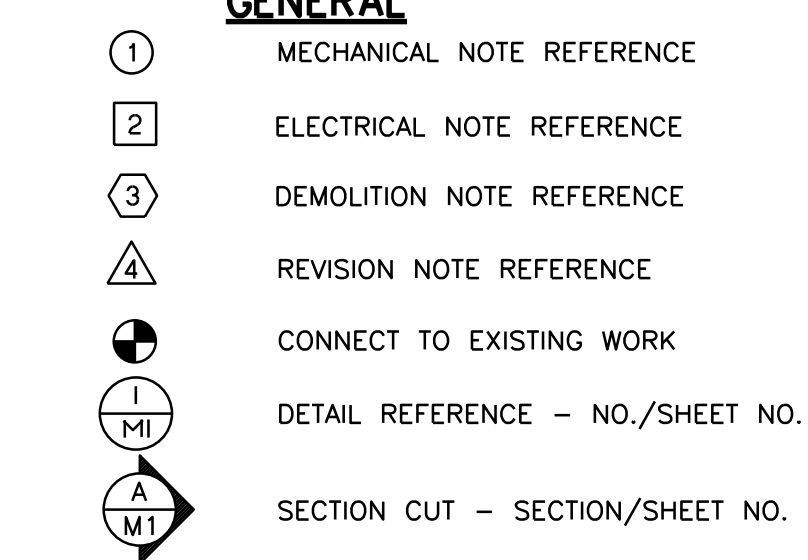
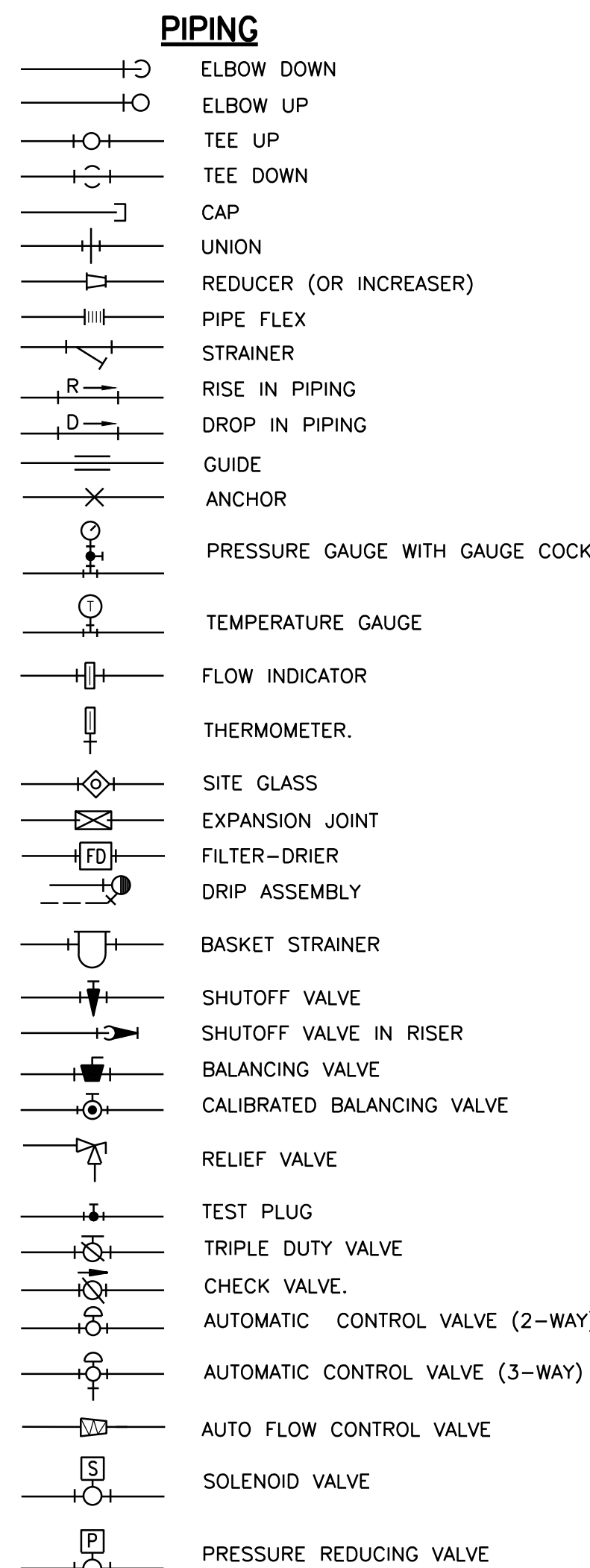
ELECTRICAL SYMBOL LEGEND

SOME SYMBOLS AND ABBREVIATIONS ON THIS LEGEND MAY NOT BE USED

	HOME RUN (2 #12 @ 1/2" UNLESS NOTED OTHERWISE)		DUPLEX RECEPTACLE		MANUAL PULL STATION
	INDICATES 3 PHASE, 1 NEUTRAL, AND 1 GROUND CONDUCTOR		LINE THRU DEVICE INDICATES ABOVE COUNTER		CEILING SMOKE DETECTOR
	INDICATES 1 PHASE, 1 NEUTRAL, AND 1 GROUND CONDUCTOR		DUPLEX RECEPTACLE WITH ISOLATED GROUND (DUPLEX AND DUPLEX SIMULA)		DUCT SMOKE DETECTOR
	HOME RUN (2 #10 CONDUCTORS THROUGHOUT CIRCUIT)		GANGED RECEPTACLE		HEAT DETECTOR
	TELEPHONE CONDUIT		INDICATES TAMPER PROOF RECEPTACLE		DOOR HOLDER
	OVERHEAD ELECTRICAL		DUPLEX RECEPTACLE		SMOKE LIGHT
	UNDERGROUND ELECTRICAL		CEILING MOUNTED RECEPTACLE		SPEAKER
	FLUORESCENT LIGHT FIXTURE		SPECIAL RECEPTACLE (NEMA CONFIG AS NOTED)		HORN
	FLUORESCENT STRIP FIXTURE		PORT-THRU R/DUPLEX RECEPTACLE		COMBINATION HORN/STROKE
	SURFACE/RECESSED LIGHT FIXTURE		PORT-THRU R/DUPLEX RECEPTABLES		COMBINATION SPEAKER/STROKE
	EXIT LIGHT		PORT-THRU R/POWER AND DATA		RELAY
	BATTERY OPERATED EMERGENCY LIGHT (WALL MNT)		SINGLE GANG FLOOR BOX (2, 3, 4 GANG SIMULA)		BELL
	BATTERY OPERATED EMERGENCY LIGHT (CEILING MNT)		GANGED POWER POLE		FIRE ALARM CONTROL PANEL
	LIGHT SWITCH - SINGLE POLE		CLOCK RECEPTACLE		FIRE ALARM ANNUNCIATOR PANEL
	LIGHT SWITCH - 3-WAY		PLUG MOLD / WIRE MOLD AS SPECIFIED		REMOTE ANNUNCIATOR PANEL
	LIGHT SWITCH - 4-WAY		JUNCTION BOX		ZONE ADDRESSABLE MODULE
	LIGHT SWITCH - KEY		PUSH BUTTON		INDIVIDUAL ADDRESSABLE MODULE
	LIGHT SWITCH - DIMMER		MOTOR		WATERFLOW SWITCH
	LIGHT SWITCH - 3-WAY DIMMER		THERMOSTAT - ELECTRIC		TAMPER SWITCH
	LIGHT SWITCH - PILOT LIGHT		DISCONNECT SWITCH, 30A-3P, NON-FUSED EXCEPT AS NOTED		BOX AROUND DEVICE INDICATES CEILING MNT
	LIGHT SWITCH - 2 POLE		COMBINATION MOTOR STARTER		BEAM DETECTOR
	MOTOR SWITCH		MAGNETIC MOTOR STARTER		FLAME DETECTOR
	TELEPHONE OUTLET (SINGLE GANG BOX WITH 3/4" C TO ABOVE ACCESSIBLE CEILING)		TOGGLE DISCONNECT SWITCH/MANUAL MOTOR STARTER		HEAT DETECTOR
	LINE THRU DEVICE INDICATES ABOVE COUNTER		SURFACE PANELBOARD		AREA OF RESCUE ASSISTANCE STATION
	DATA OUTLET (DOUBLE GANG BOX W/ 3/4" C TO ABOVE ACCESSIBLE CEILING)		ACCESSORY PANELBOARD		AREA OF RESCUE ASSISTANCE MASTER STATION
	TELEPHONE/DATA OUTLET (DOUBLE GANG BOX W/ 3/4" C TO ABOVE ACCESSIBLE CEILING)		DISTRIBUTION PANELBOARD		FIREMAN'S PHONE
	TELEVISION OUTLET (SINGLE GANG BOX W/ 3/4" C TO ABOVE ACCESSIBLE CEILING)		AUTOMATIC TRANSFER SWITCH		FIXED CAMERA
	NON FUSED DISCTING		LIGHTING CONTACTOR		PAN/TILT/ZOOM CAMERA
	ISOLATED GROUND		INDICATES CONNECT TO EXISTING		CIRD READER
	SURGE SUPPRESSION		INDICATES ELEVATION		ELECTRIC STRIKE
	RESISTOR PROOF GROUND FAULT INTERRUPT		INTERCOM MASTER STATION		SECURITY MOTION DETECTOR
	EMERGENCY NIGHT LIGHT		INTERCOM CALL STATION		
			INTERCOM HANDSET		
			INTERCOM MASTER STATION		

HOPE FAITH MINISTRIES

705 VIRGINIA, KCMO



WWW.HTKARCHITECTS.NET

Revised Date

SHEET CONTENTS

- SYMBOLS AND ABBREVIATIONS -
- MECHANICAL AND ELECTRICAL

●0908.02

ME1.0

PERMIT DOCUMENTS

Hope Faith Ministries

MECHANICAL AND ELECTRICAL SYMBOLS AND ABBREVIATIONS


smith&boucher
ENGINEERS
25501 west valley parkway, suite 200 olathe, ks 66061
p.913.345.2127 / 888.299.7540 f.913.345.0617
project number 0919700

HOPE FAITH MINISTRIES - WAREHOUSE RENOVATION
PROJECT NAME: C:\projects\hopefaith\warehouse\dwg\plumbing\plumbing.dwg
DRAWN BY: J. L. SMITH
LAST CORRECTION BY: J. L. SMITH
PLOT DATE: 11/11/11
PLOT TIME: 11:29 am
PLOT BY: J. L. SMITH

PLUMBING FIXTURE SCHEDULE					
MARK	MANUFACTURER / MODEL	DESCRIPTION	MANUFACTURER / MODEL	FITTINGS DESCRIPTION	REMARKS
WC-1	AMERICAN STANDARD	WATER CLOSET: WHITE VITREOUS CHINA, ELONGATED BOWL, WALL MOUNTED, FLUSH VALVE BOWL WITH TOP SPUD AND FLAT BOLT COVERS. 1.6 GALLON SIPHON JET FLUSHING ACTION.	SLOAN OPTIMA PLUS 8111	EXPOSED, TOP SPUD, BATTERY POWERED, SENSOR ACTIVATED WATER CLOSET FLUSHOMETER	
	AF-WALL 2257.103				
	WADE	PROVIDE CARRIER AS REQUIRED TO SUIT APPLICATION FOR MOUNTING IN CHASE			
WC-2	CHURCH 9500C	SEAT: SOLID PLASTIC, OPEN FRONT, WHITE, ELONGATED BOWL, INTEGRAL BUMPERS, EXTERNAL CHECK HINGES WITH STAINLESS STEEL POSTS.	SLOAN OPTIMA PLUS 8111	EXPOSED, TOP SPUD, BATTERY POWERED, SENSOR ACTIVATED WATER CLOSET FLUSHOMETER	
	AMERICAN STANDARD	ADA COMPLIANT WATER CLOSET: WHITE VITREOUS CHINA, ELONGATED BOWL, WALL MOUNTED, FLUSH VALVE BOWL WITH TOP SPUD AND FLAT BOLT COVERS. 1.6 GALLON SIPHON JET FLUSHING ACTION.			
	AF-WALL 2257.103				
WC-3	WADE	PROVIDE CARRIER AS REQUIRED TO SUIT APPLICATION FOR MOUNTING IN CHASE	SLOAN OPTIMA PLUS 8111	EXPOSED, TOP SPUD, BATTERY POWERED, SENSOR ACTIVATED WATER CLOSET FLUSHOMETER	
	CHURCH 9500C	SEAT: SOLID PLASTIC, OPEN FRONT, WHITE, ELONGATED BOWL, INTEGRAL BUMPERS, EXTERNAL CHECK HINGES WITH STAINLESS STEEL POSTS.			
	AMERICAN STANDARD	WATER CLOSET: WHITE VITREOUS CHINA, ELONGATED BOWL, FLOOR MOUNTED, BOTTOM OUTLET, FLUSH VALVE BOWL WITH TOP SPUD AND FLAT BOLT COVERS. 1.6 GALLON SIPHON JET FLUSHING ACTION.			
U-1	MADERA 2305.156		SLOAN OPTIMA PLUS 8111	EXPOSED, TOP SPUD, BATTERY POWERED, SENSOR ACTIVATED WATER CLOSET FLUSHOMETER	
	CHURCH 9500C	SEAT: SOLID PLASTIC, OPEN FRONT, WHITE, ELONGATED BOWL, INTEGRAL BUMPERS, EXTERNAL CHECK HINGES WITH STAINLESS STEEL POSTS.			
	AMERICAN STANDARD	ADA COMPLIANT URINAL: WHITE VITREOUS CHINA WALL HUNG URINAL WITH 3/4" TOP SPUD, 1.0 GALLON SIPHON JET FLUSHING ACTION.			
U-2	TRIMBROOK 6561.017		SLOAN OPTIMA PLUS 8180-1.0	EXPOSED, TOP SPUD, BATTERY POWERED, SENSOR ACTIVATED WATER CLOSET FLUSHOMETER	
	WADE	PROVIDE CARRIER AS REQUIRED TO SUIT APPLICATION FOR MOUNTING IN CHASE			
	AMERICAN STANDARD	URINAL: WHITE VITREOUS CHINA WALL HUNG URINAL WITH 3/4" TOP SPUD, 1.0 GALLON SIPHON JET FLUSHING ACTION.			
L-1	LUCERNE 0355.012		AMERICAN STANDARD PILLER TAP 1340M.105	CAST SPOUT, 1.5 GPM PRESSURE COMPENSATING VANDAL-RESISTANT AERATOR 1.5 GPM PRESSURECOMPENSATING WITH THERMOSTATIC MIXING VALVE	1,2,3,4
	WADE	PROVIDE CARRIER AS REQUIRED TO SUIT APPLICATION FOR MOUNTING IN CHASE			
	AMERICAN STANDARD	ADA COMPLIANT WALL HUNG LAVATORY: WHITE VITREOUS CHINA WITH SPLASHBACK AND CONCEALED ARM CARRIER.			
WB-1	GUY GRAY 8200	GALVANISED STEEL CENTER DRAIN WASHING MACHINE WALL BOX WITH 3/4" HOT AND COLD OUTLETS.	-		
EW-1		FURNISHED BY OWNER INSTALLED BY CONTRACTOR	-		
EW-2		FURNISHED BY OWNER INSTALLED BY CONTRACTOR	-		
JS-1	STERN-WILLIAMS SB-900	24"x24"x12" TERRAZO SERVICEPORT. FLOOR MOUNTED WITH INTEGRAL BRASS DRAIN. FURNISH WITH FLANGES AS APPROPRIATE FOR INSTALLATION	AMERICAN STANDARD 8344.111	EXPOSED YOKE WALL-MOUNT UTILITY FAUCET WITH TOP BRACE. CAST BRASS BODY WITH METAL LEVER HANDLES, CERAMIC DISC VALVE CARTRIDGES, VACUUM BREAKER, BUTTON HOOK, AND THREADED HOSE END.	

REMARKS
1 PROVIDE CHROME PLATED BRASS TAILPIECE AND GRID DRAIN.
2 PROVIDE LOOSE KEY STOPS AND FLEXIBLE RISERS.
3 PROVIDE CONCEALED ARM TYPE CARRIER WITH SQUARE TUBULAR STEEL UP-RIGHTS AND BLOCK TYPE BASES.
4 INSULATE EXPOSED TAILPIECE, P-TRAP, AND WATER RISERS. REFER TO SPECIFICATIONS FOR INSULATION METHODS.

CONDENSING UNIT SCHEDULE									
DESIGNATION	CU-1	CU-2	CU-3	CU-4	CU-5	CU-6	CU-7	CU-8 (FUTURE)	
MANUFACTURER	YORK	YORK	YORK	YORK	YORK	YORK	YORK	YORK	
MODEL NO.	TCGD60	TCGD60	TCGD36	TCGD60	TCGD60	TCGD36	TCGD60	TCGD36	
SYSTEM	AHU-1	AHU-2	AHU-3	AHU-4	AHU-5	AHU-6	AHU-7	AHU-8	
UNIT DATA									
TOTAL MBH (NOTE 1)	60	60	35	60	35	60	35	60	
SENSIBLE MBH (NOTE 1)	42	42	25	42	25	42	25	42	
AMBIENT AIR TEMP. (°F)	95	95	95	95	95	95	95	95	
NO. COMPRESSORS	1	1	1	1	1	1	1	1	
CONTROL STEPS	1	1	1	1	1	1	1	1	
FANS (NO./HP)	(1) 1/4	(1) 1/4	(1) 1/4	(1) 1/4	(1) 1/4	(1) 1/4	(1) 1/4	(1) 1/4	
ELEC./CONTROL DATA									
MCA	23.9	23.9	12.3	23.9	23.9	12.3	23.9	12.3	
MAXIMUM OVERCURRENT PROTECTION	40	40	20	40	40	20	40	20	
VOLTAGE/PHASE	208/3	208/3	208/3	208/3	208/3	208/3	208/3	208/3	
PANEL & CIRCUIT	MP-1,3,5	MP-7,9,11	MP-13,15,17	MP-19,21,23	MP-25,27,29	MP-31,33,35	MP-37,39,41	MP	
WIRE & CONDUIT	(3)#8,#10G.,3/4"C.	(3)#8,#10G.,3/4"C.	(3)#12,#12G.,3/4"C.	(3)#8,#10G.,3/4"C.	(3)#8,#10G.,3/4"C.	(3)#12,#12G.,3/4"C.	(3)#8,#10G.,3/4"C.	(3)#12,#12G.,3/4"C.	
OVERCURRENT DEVICE	40A-3P	40A-3P	20A-3P	40A-3P	40A-3P	20A-3P	40A-3P	20A-3P	
DISCONNECT	60A-3P, NF NEMA 3R	60A-3P, NF NEMA 3R	30A-3P, NF NEMA 3R	60A-3P, NF NEMA 3R	60A-3P, NF NEMA 3R	30A-3P, NF NEMA 3R	60A-3P, NF NEMA 3R	30A-3P, NF NEMA 3R	
REFERENCE DRAWING/DETAIL									
REMARKS									

NOTE 1 : CAPACITY WHEN MATCHED WITH SCHEDULED AIR HANDLING UNIT.

GRILLE, REGISTER & DIFFUSER SCHEDULE						
PLAN MARK	MANUFACTURER MODEL NUMBER	SERVICE	MOUNT TYPE	VOLUME DAMPER	MATERIAL COLOR	REMARKS
SD-1	TITUS TMS	SUPPLY	LAY-IN	NO	WHITE	NOTE 1
SD-2	TITUS TMS	SUPPLY	SURFACE	YES	WHITE	
SD-3	TITUS 300RL	SUPPLY	DUCT	YES	WHITE	
SD-4	TITUS 300RL	SUPPLY	SURFACE	YES	WHITE	
RG-1	TITUS 350RL	RETURN	LAY-IN	NO	WHITE	NOTE 1
RG-2	TITUS 350RL	RETURN	SURFACE/WALL	YES	WHITE	
RG-3	TITUS 63FL	RETURN	SURFACE	NO	ARCH	
RG-4	TITUS 63FL	RETURN	LAY-IN	NO	ARCH	NOTE 1
ER-1	TITUS 350RL	EXHAUST	LAY-IN	YES	WHITE	NOTE 1
ER-2	TITUS 350RL	EXHAUST	DUCT	YES	WHITE	

NOTE 1: BORDER TYPE 1, NO SCREW HOLES.

PUMP SCHEDULE	
DESIGNATION	HCP-2
UNIT DATA	
MANUFACTURER	BELL & GOSSETT
LOCATION	MECH MEZZ C201
MODEL NO.	100
SERVICE	BUILDING RECIRC
PUMP TYPE	IN-LINE
GPM	10
PUMP HEAD (FT.)	8
MOTOR HORSEPOWER	1/12
MOTOR RPM	1750
VOLTAGE/PHASE	120/1
PANEL & CIRCUIT	LP-23
WIRE & CONDUIT	(2)#12, #12G., 1/2" C.
OVERCURRENT DEVICE	1P-20A
DISCONNECT	NOTE 1
STARTER	---
CONTROL	AQUATSTAT
REFERENCE DRAWING/DETAIL	M2.2
REMARKS	

NOTES:
1. FURNISH AND INSTALL MOTOR RATED SWITH AT PUMP

FURNACE SCHEDULE - GAS HEAT									
DESIGNATION	AHU-1	AHU-2	AHU-3	AHU-4	AHU-5	AHU-6	AHU-7	AHU-8	
UNIT									
SIZE	TCG9560 (5 TON)	TCG9560 (5 TON)	TCGD36 (3 TON)	TCG9560 (5 TON)	TCG9560 (5 TON)	TCGD36 (3 TON)	TCG9560 (5 TON)	TCGD36 (3 TON)	
SERVICE	MULTIPURPOSE RM 1	MULTIPURPOSE RM 1	ENTRANCE LOBBY	MULTIPURPOSE RM 2	MULTIPURPOSE RM 2	RB/STORAGE	KITCHEN	UPPER STOR	
MANUFACTURER	YORK	YORK	YORK	YORK	YORK	YORK	YORK	YORK	
CFM	1800	1800	1200	1800	1800	1200	1800	1200	
EXTERNAL STATIC PRES. (IN. W.G.)	0.6	0.6	0.5	0.6	0.6	0.5	0.6	0.5	
MOTOR HORSEPOWER	1	1	1/2	1	1	1/2	1	1/2	
VOLTAGE/PHASE	120/1	120/1	120/1	120/1	120/1	120/1	120/1	120/1	
CFM	1800	1800	1200	1800	1800	1200	1800	1200	
INPUT BTUH	120	120	80	120	120	80	120	80	
OUTPUT BTUH	114	114	76	114	114	76	114	76	
AFUE	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	
TEMP RISE (MIN-MAX) °F	52.3	52.3	58.6	52.3	52.3	58.6	52.3	58.6	
CFM	1800	1800	1200	1800	1800	1200	1800	1200	
OUTSIDE AIR - CFM	325	325	120	325	325	120	325	215	
ENT. AIR (DB/WB)	79.5/67.0	79.5/67.0	77.5/65.5	79.5/67.0	79.5/67.0	77.5/65.5	79.5/67.0	79.5/67.0	
LVG. AIR (DB/WB)	55/54	55/54	55/54	55/54	55/54	55/54	55/54	55/54	
SENSIBLE HEAT MBH	60	60	34	60	60	34	60	34	
TOTAL MBH	42	42	26	42	42	26	42	26	
MCA	17	17	10	17	17	10	17	10	
PANEL AND CIRCUIT	LP-41	LP-39	LP-37	LP-35	LP-33	LP-31	LP-29	LP	
WIRE AND CONDUIT	(2)#12,#12G.,3/4"C.	(2)#12,#12G.,3/4"C.	(2)#12,#12G.,3/4"C.	(2)#12,#12G.,3/4"C.	(2)#12,#12G.,3/4"C.	(2)#12,#12G.,3/4"C.	(2)#12,#12G.,3/4"C.	(2)#12,#12G.,3/4"C.	
VOLTAGE/PHASE	120/1	120/1	120/1	120/1	120/1	120/1	120/1	120/1	
OVERCURRENT DEVICE	20A-1P	20A-1P	15A-1P	20A-1P	20A-1P	15A-1P	20A-1P	15A-1P	
CONTROL SEQUENCE									
REFERENCE DRAWING/DETAIL	M2.2	M2.2	M2.2	M2.2	M2.2	M1.1	M2.2	M1.1	
REMARKS								NOTE 1	

NOTES:
1. UNIT TO BE INSTALLED WITH GAS HEAT. OPTION FOR FUTURE COOLING TO BE CONSIDERED FUTURE AND EXERCISED BY DISCRETION OF OWNER.

DRAIN SCHEDULE		
MARK	MANUFACTURER/ MODEL	DESCRIPTION
FD-1	WADE W-1100-STD-6	CAST IRON DRAIN WITH ADJUSTABLE TOP AND 6" NICKEL BRASS STRAINER WITH VANDAL RESISTANT SCREWS. FURNISH WITH TRAP GUARD
KFS-1	MIFAB F1730	CAST IRON DRAIN BODY WITH A.R.E. COATING. 12"X12"X8" DEEP. WITH 1/2 GRATE

NOTE 1: REFER TO PLANS FOR OUTLET SIZES
NOTE 2: PROVIDE BACKWATER VALVE FOR ALL SLAB ON GRADE FLOOR DRAINS.

PLUMBING FIXTURE CONN. SCHEDULE					
FIXTURE	DESIG.	CW	HW	WASTE	VENT
LAVATORY	L-1	1/2"	1/2"	1-1/2"	2"
FLUSH VALVE WATER CLOSET	WC-1, 2, 3	1-1/4"	-----	4"	2"
URINAL	U-1, U-2	3/4"	-----	2"	1-1/2"
JANITOR SINK	JS-1	1/2"	1/2"	3"	1-1/2"
WASHING MACHINE	WB-1	1/2"	1/2"	2"	2"
ELECTRIC DRINKING FOUNTAIN	EW-1, 2	1/2"	-----	1-1/2"	1-1/4"

NOTE: PIPE SIZES ARE MINIMUM, REFER TO RISER DIAGRAM.

UNIT HEATER SCHEDULE - GAS					
DESIGNATION	UH-1	UH-2	UH-3	UH-4	UH-5 (EXISTING)
HEATER TYPE	GRAVITY VENT	GRAVITY VENT	GRAVITY VENT	GRAVITY VENT	GRAVITY VENT
LOCATION	RECEIVING 126	MEN'S CLOTHING 130	MEN'S CLOTHING 130	ENTRY VESTIBULE	RECEIVING 126
MOUNTING	CEILING/STRUCTURE	CEILING/STRUCTURE	CEILING/STRUCTURE	CEILING/STRUCTURE	CEILING/STRUCTURE
MANUFACTURER	REZNOR	REZNOR	REZNOR	REZNOR	--
MODEL	MODEL B-75	MODEL B-75	MODEL B-75	MODEL B-50	--
UNIT DATA					
CFM	1200	1200	1200	800	--
FAN QTY.	1	1	1	1	--
FAN DRIVE	BELT	BELT	BELT	BELT	--
MOTOR QTY.	1	1	1	1	1
HEATER INPUT (MBH)	75	75	75	50	200
HEATER OUTPUT (MBH)	60	60	60	10	160
MOTOR HP	1/3	1/3	1/3	1/6	1/2
VOLTAGE/PHASE	120/1	120/1	120/1	120/1	120/1
PANEL & CIRCUIT	LP-2	LP-2	LP-4	LP-4	LP-6
WIRE & CONDUIT	2#12,#12 G., 1/2" C.	2#12,#12 G., 1/2" C.	2#12,#12 G., 1/2" C.	2#12,#12 G., 1/2" C.	2#12,#12 G., 1/2" C.
OVERCURRENT DEVICE	1P-20A	1P-20A	1P-20A	1P-20A	1P-20A
DISCONNECT	1P/30/NF	1P/30/NF	1P/30/NF	1P/30/NF	1P/30/NF
CONTROL	T-STAT	T-STAT	T-STAT	T-STAT	T-STAT
REFERENCE DRAWING/DETAIL	M1.1	M1.1	M1.1	M1.1	M1.1
REMARKS	1, 2, 4	1, 2, 4	1, 2, 4	1, 2, 4	1, 3, 4

NOTES
1 SUPPORT UNITS IN ACCORDANCE WITH STRUCTURAL REQUIREMENTS.
2 EXTEND 5" OVAL VENT UP THROUGH ROOF IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
3 RELOCATE EXISTING UNIT FROM MULTIPURPOSE ROOM 2. EXTEND VENT THROUGH ROOF.
4 FURNISH WITH INTEGRAL T-STAT.

THERMOSTATIC MIXING VALVE	
DESIGNATION	TMV-1
MANUFACTURER	SYMMONS
MODEL	5-400-102-PRV
MIN GPM	0.5
PEAK DEMAND GPM	30
SYSTEM MAX PRESSURE DROP	10
OUTLET TEMP. (°F)	120
REFERENCE DRAWING/DETAIL	M2.2
REMARKS	

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Date
• June 25, 2010

Revised Date
• CITY COMMENTS 1-10-11

SHEET CONTENTS
• SCHEDULES - MECHANICAL AND ELECTRICAL

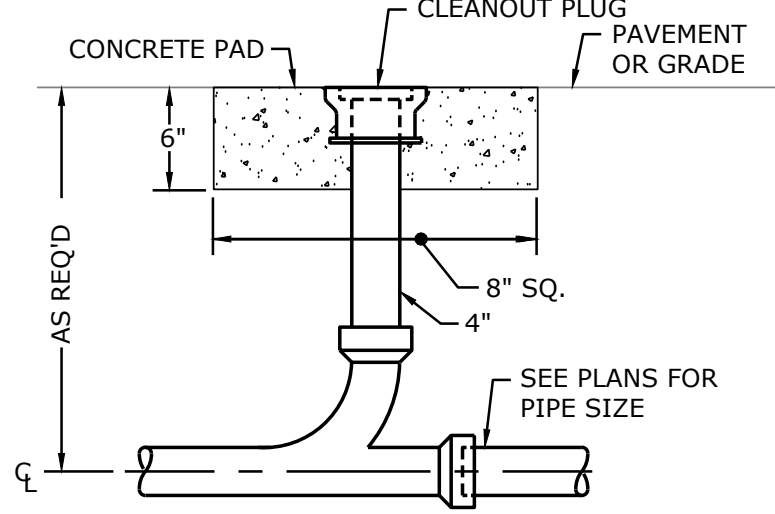
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• 0908.02

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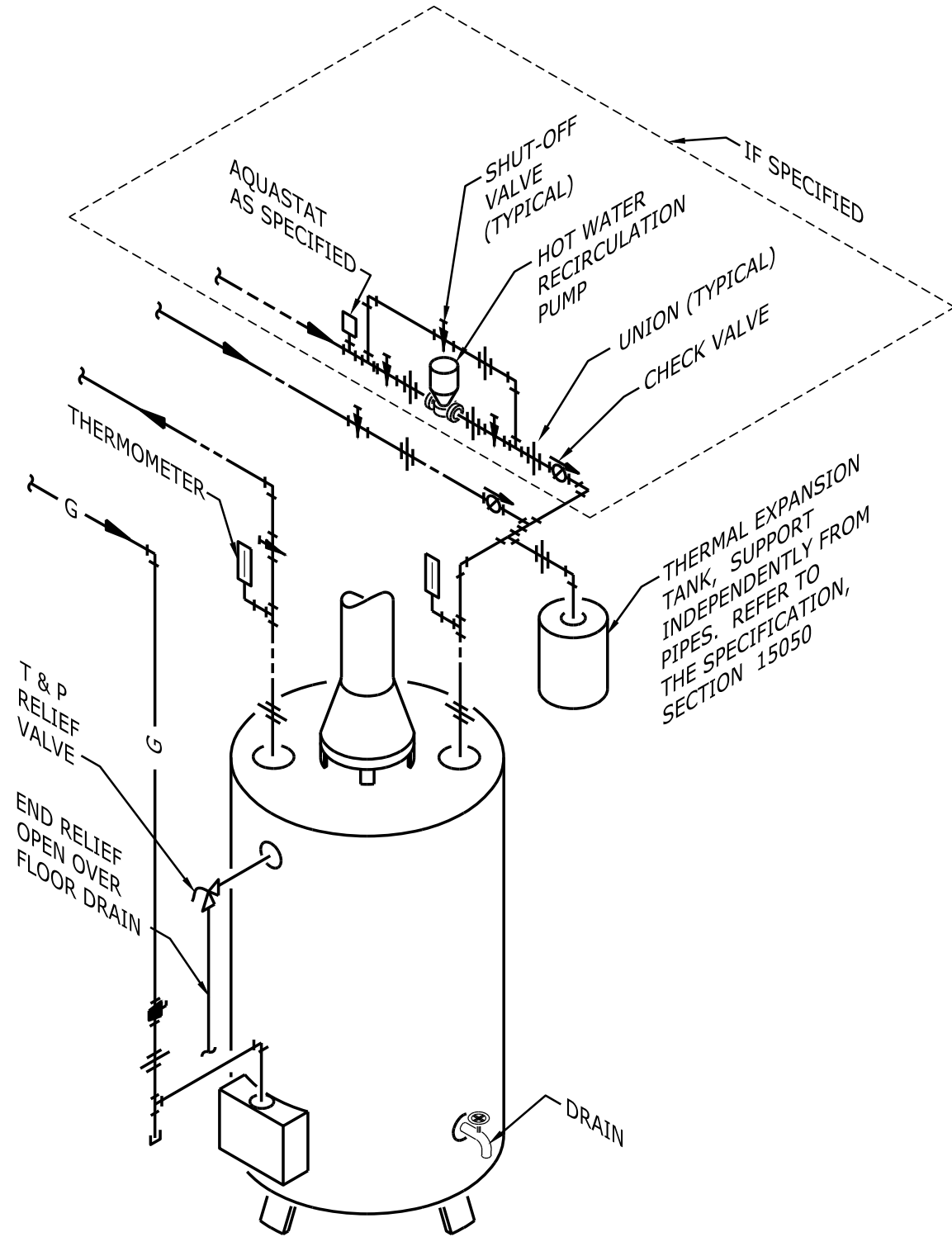
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PERMIT DOCUMENTS

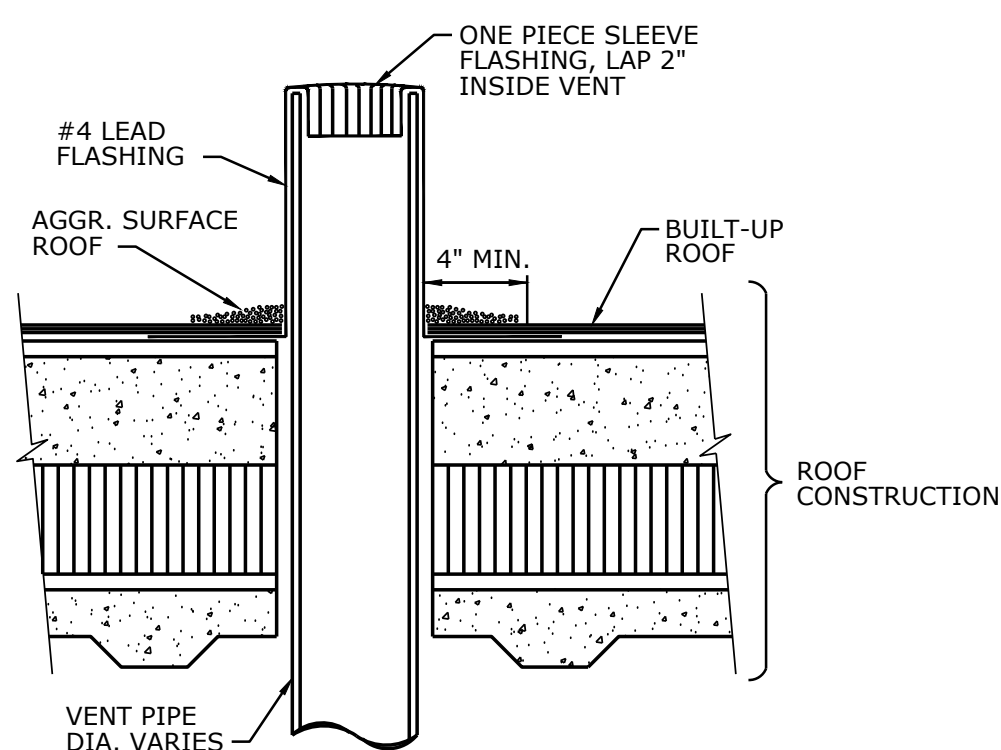
PROJECT NAME: WAREHOUSE RENOVATION
DRAWN BY: J. B. B. / J. B. B.
LAST CORRECTION BY: J. B. B. / J. B. B.
DATE: 03/10
PLOT BY: J. B. B. / J. B. B.
DATE: 03/10
TIME: 3:34 pm



GRADE CLEANOUT DETAIL
NOT TO SCALE

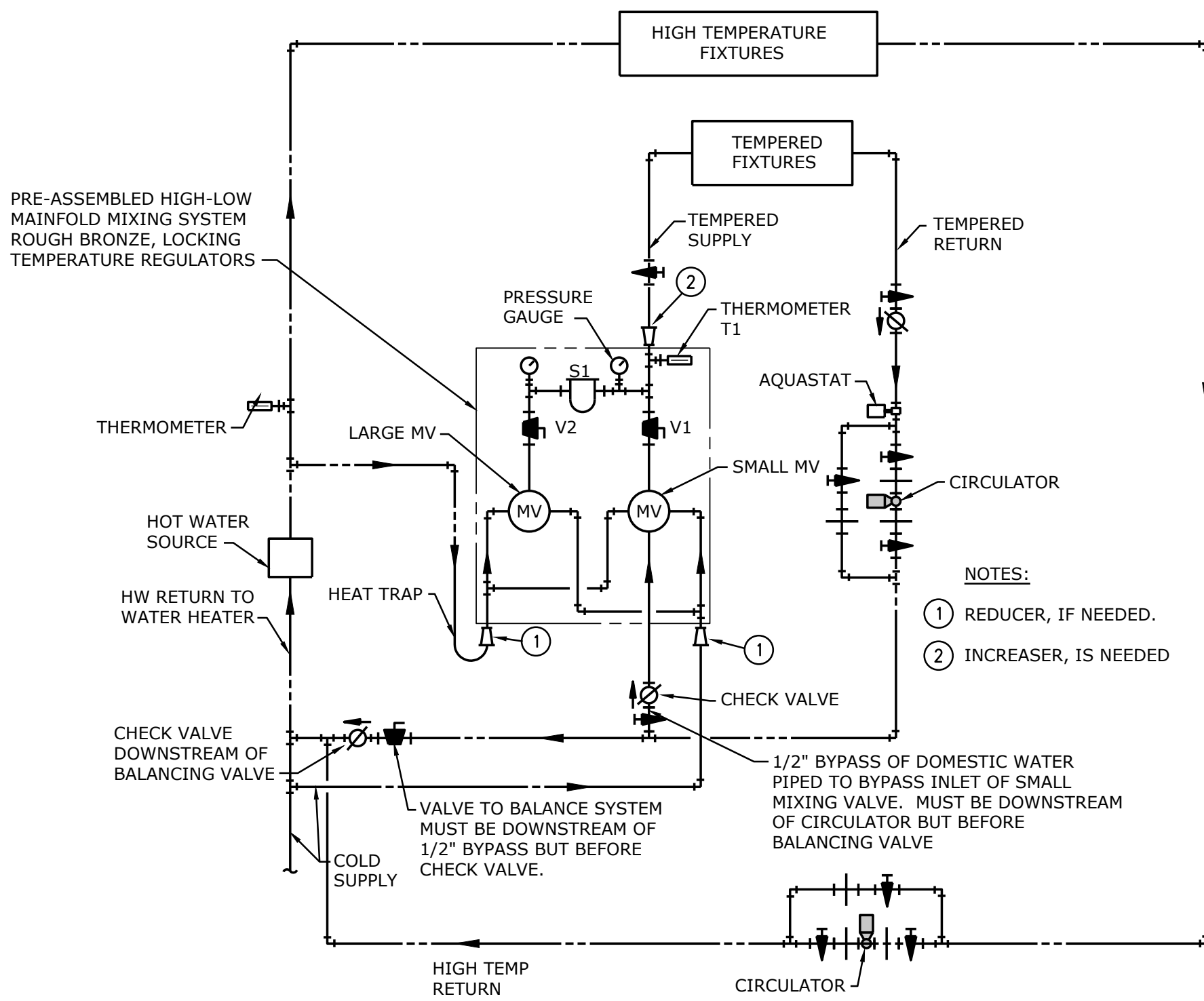


GAS FIRED WATER HEATER DETAIL
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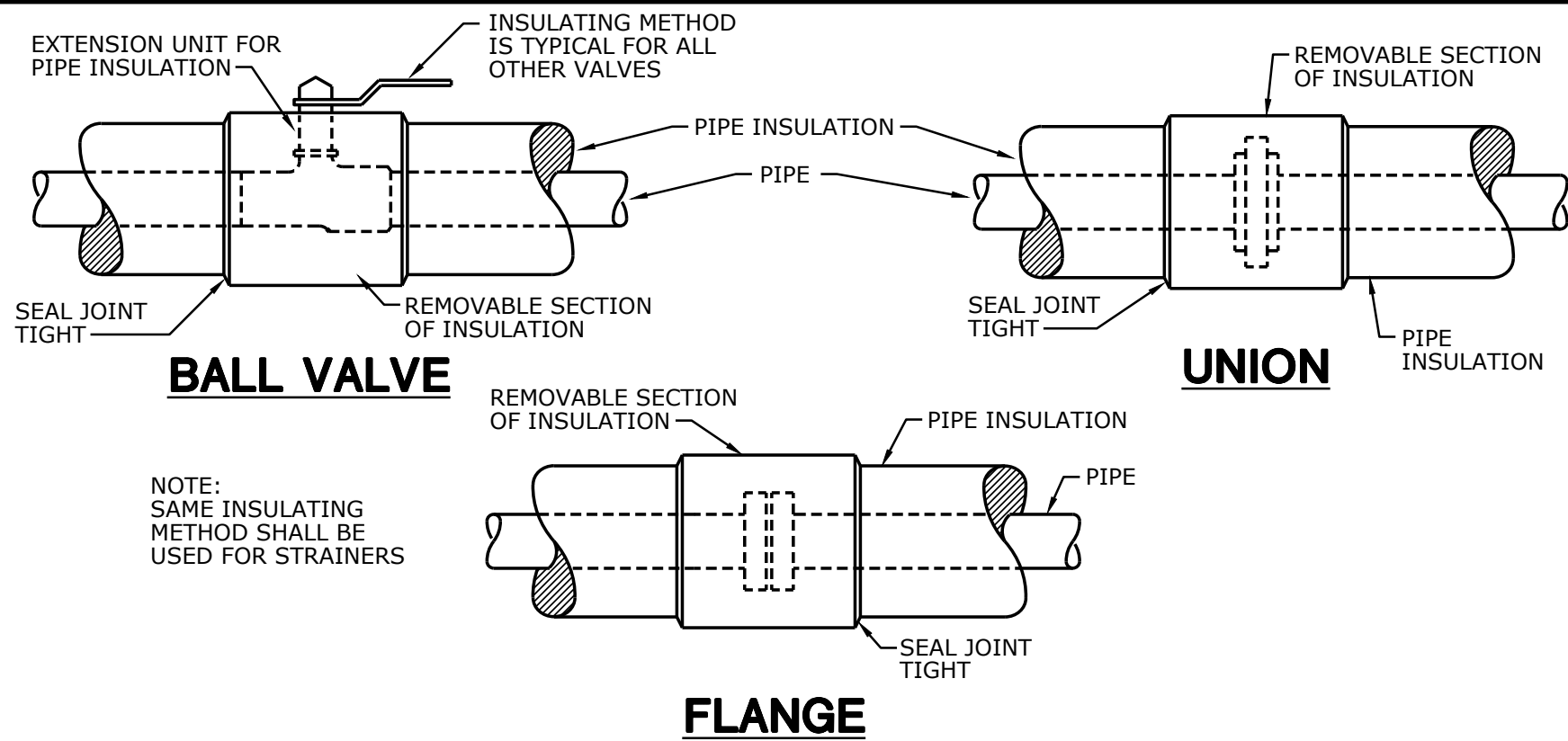


- NOTES:
1. MAX. SIZE OF ROOF OPENING 1" LARGER THAN OUTSIDE DIA. OF VENT PIPE.
 2. VENT PIPE SHALL NOT BE INSTALLED WITHIN 5'-0" OF ROOF VALLEYS OR 2'-0" FROM ANY VERTICAL SURFACE.
 3. VENT PIPE SHALL TERMINATE NOT LESS THAN 10'-0" FROM ANY AIR INTAKE OR VENT SHAFT.

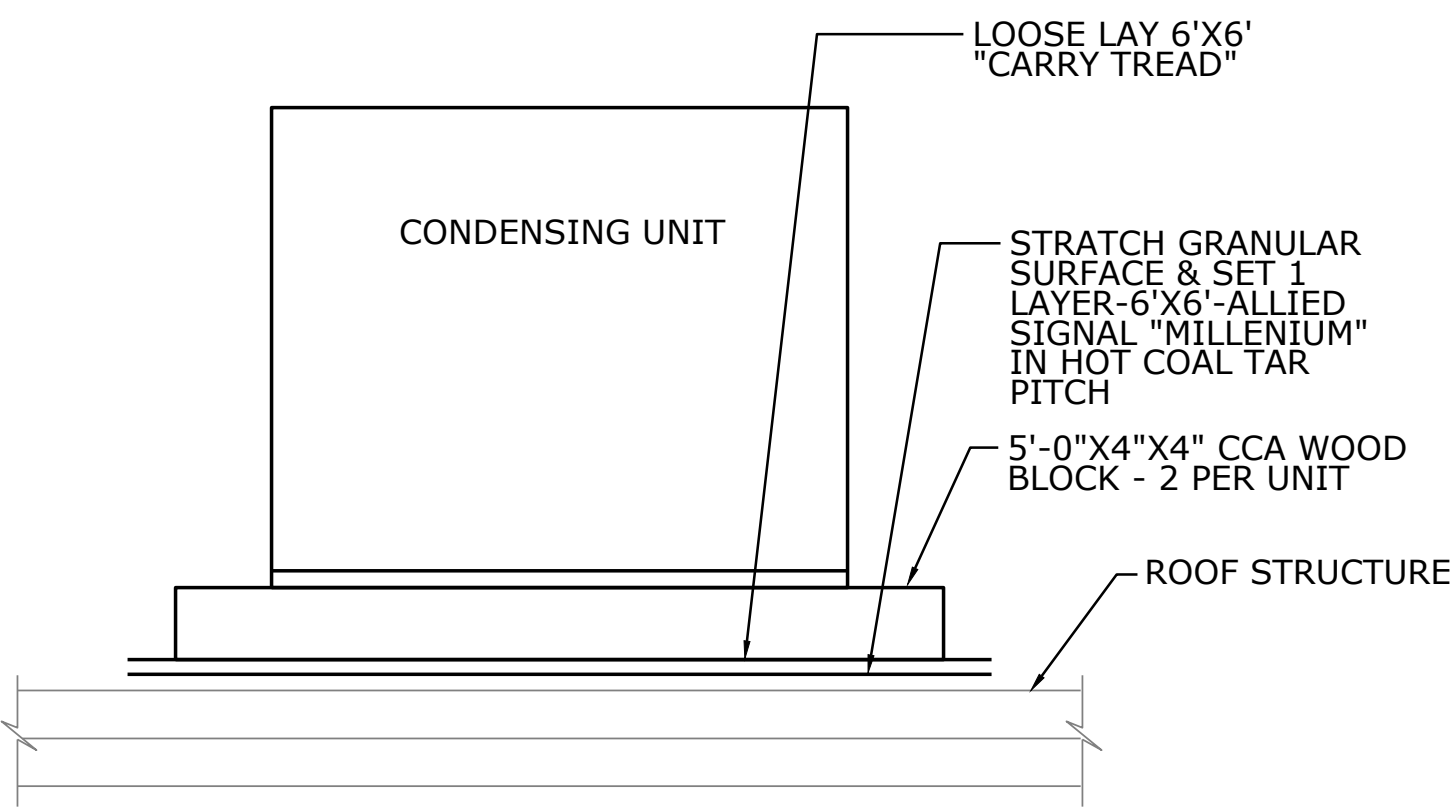
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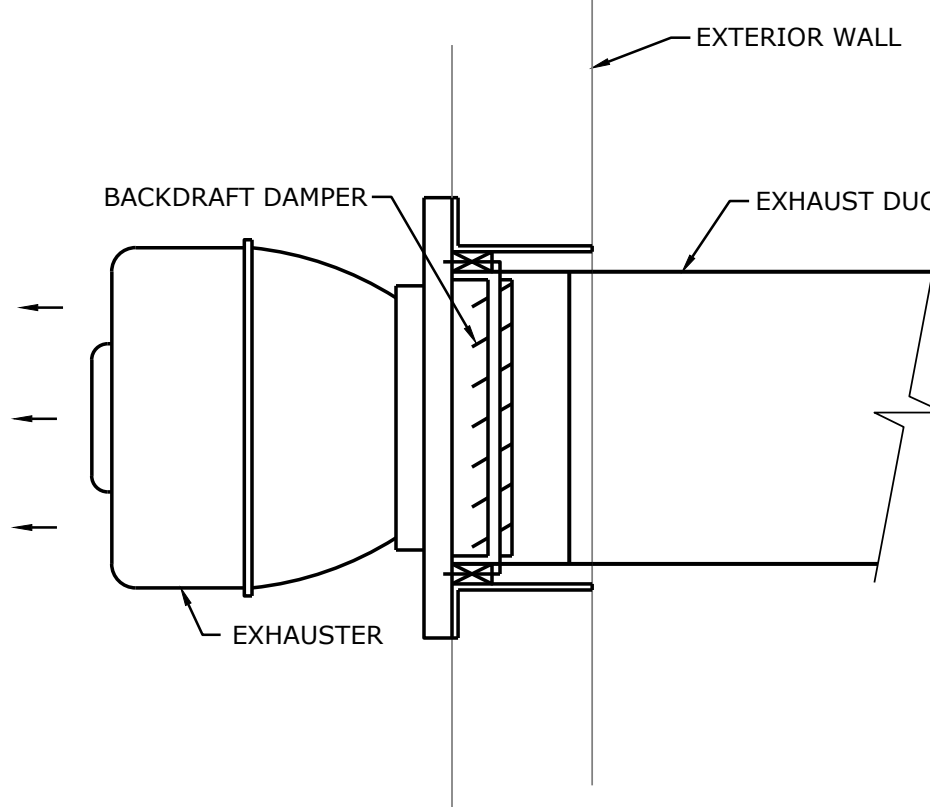
HI/LO 2 TEMP MIXING VALVE ASSEMBLY
NOT TO SCALE



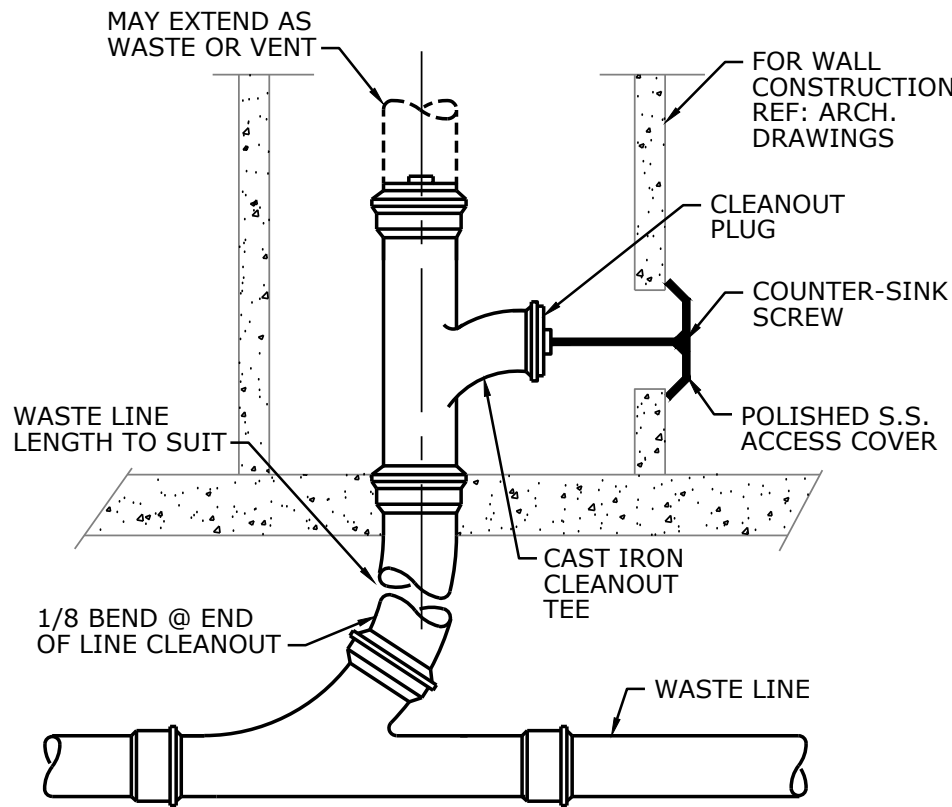
PIPE INSULATION DETAILS
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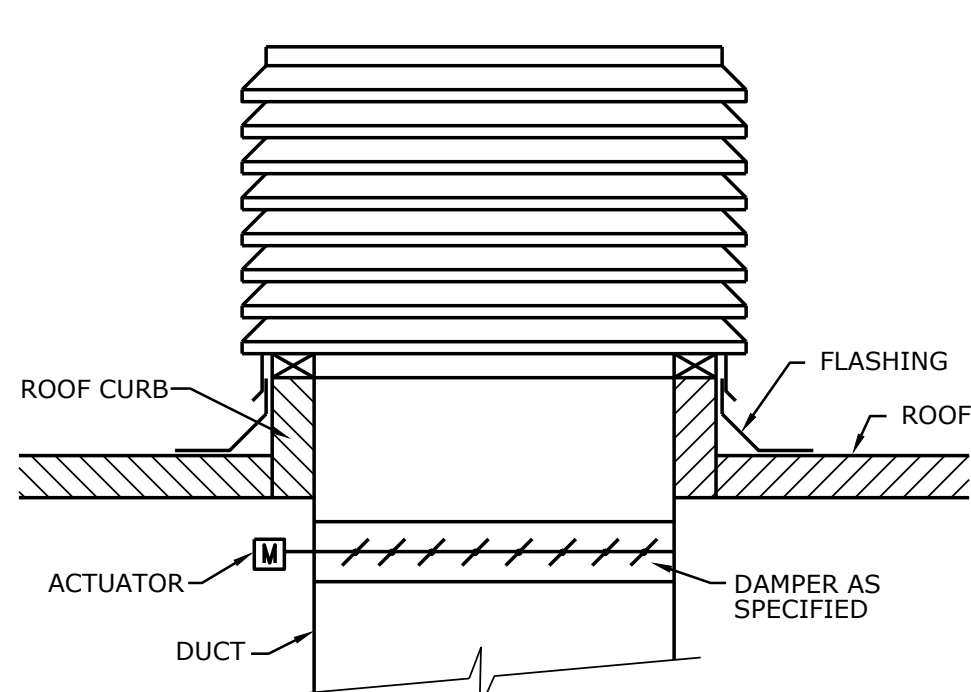
CONDENSING UNIT MOUNTING DETAIL
NOT TO SCALE



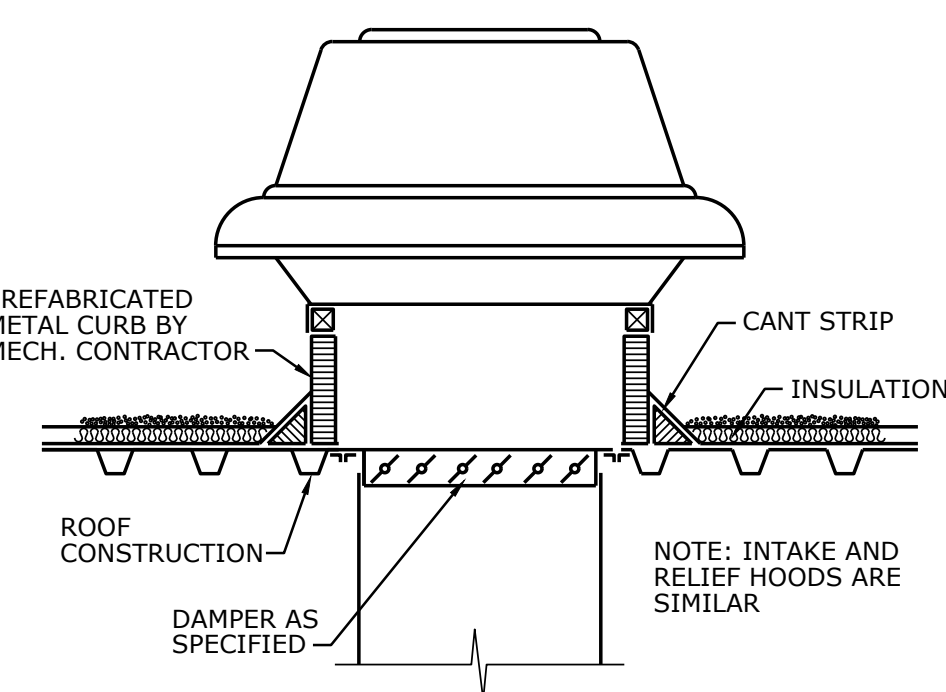
EXHAUST FAN DETAIL
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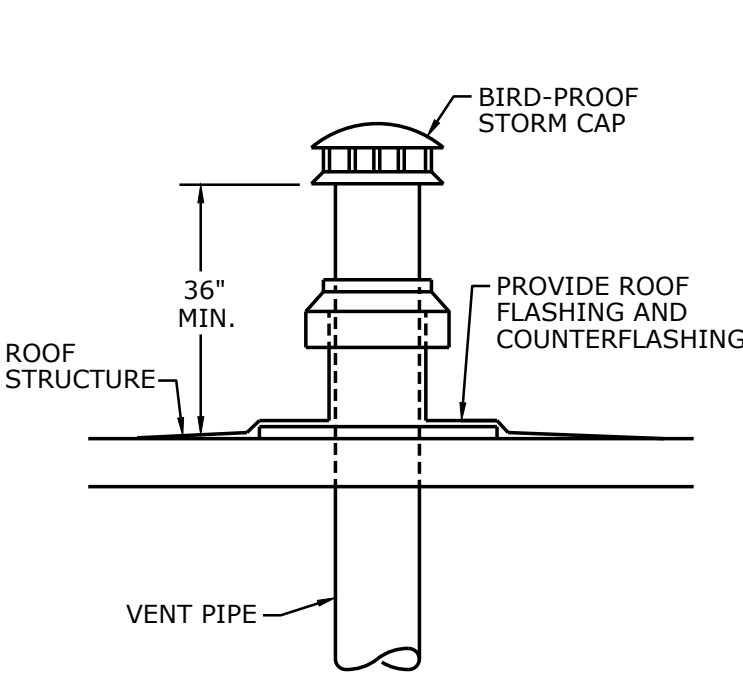
WALL CLEANOUT
NOT TO SCALE



FRESH AIR INTAKE/RELIEF VENT DETAIL
NOT TO SCALE



POWER ROOF VENTILATOR
NOT TO SCALE



GAS VENT STACK DETAIL
NOT TO SCALE

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Date
• June 25, 2010

Revised Date

SHEET CONTENTS
• DETAILS - MECHANICAL AND
• ELECTRICAL

PROJECT NUMBER

• 0908.02

SHEET NUMBER

ME3.1

PERMIT DOCUMENTS

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project number 0919700

PROJECT NAME: WAREHOUSE RENOVATION
DRAWING NO: W-109-100-01
DATE: 01/10/2024
BY: J. B. BOUCHER
CHECKED BY: J. B. BOUCHER
DATE: 01/10/2024
BY: J. B. BOUCHER

SECTION 15B

PLUMBING

1. GENERAL CONDITIONS:

- A. THIS CONTRACTOR SHALL INSPECT THE SITE WHERE THIS WORK IS TO BE PERFORMED AND FULLY FAMILIARIZE HIMSELF WITH ALL CONDITIONS RELATED TO THIS PROJECT.
- B. THIS CONTRACTOR SHALL OBTAIN AND PAY FOR ALL PERMITS AND LICENSES AND SHALL MAKE ALL DEPOSITS AND PAY ALL FEES REQUIRED FOR THE PERFORMANCE OF WORK UNDER THIS SECTION OTHER THAN THOSE DEPOSITS OR FEES WHICH ARE FULLY REFUNDABLE TO THE OWNER.
- C. DRAWINGS SHOW THE GENERAL ARRANGEMENT OF ALL SYSTEMS AND COMPONENTS COVERED UNDER THIS SECTION, WHERE LOCAL CONDITIONS NECESSITATE A REARRANGEMENT, THIS CONTRACTOR SHALL PREPARE, AND SUBMIT FOR APPROVAL, DRAWINGS OF THE PROPOSED REARRANGEMENT. BECAUSE OF THE SMALL SCALE OF THE DRAWINGS, IT IS NOT POSSIBLE TO INDICATE ALL OFFSETS, FITTINGS, AND ACCESSORIES THAT MAY BE REQUIRED. THIS CONTRACTOR SHALL CAREFULLY INVESTIGATE THE STRUCTURAL AND FINISH CONDITIONS AFFECTING ALL OF HIS WORK AND SHALL ARRANGE SUCH WORK ACCORDINGLY, FURNISHING SUCH FITTINGS AND ACCESSORIES AS MAY BE REQUIRED TO MEET SUCH MATERIAL DELIVERIES WITHOUT COST TO THE OWNER. THIS CONTRACTOR SHALL VERIFY ALL DIMENSIONS.
- D. SPECIFICATIONS AND DRAWINGS ARE COMPLEMENTARY AND WHAT IS CALLED FOR IN ONE SHALL BE AS BINDING AS IF CALLED FOR BY BOTH.

2. LAWS, REGULATIONS, ORDINANCES, STATUTES AND CODES:

- A. THIS CONTRACTOR SHALL BE INSTAL LED IN ACCORDANCE WITH ALL APPLICABLE LOCAL LAWS, REGULATIONS, ORDINANCES, STATUTES AND CODES. SHOULD ANY WORK SHOWN ON THE DRAWINGS OR SPECIFIED HEREIN BE OF LOWER STANDARD THAN SAID LAWS, REGULATIONS, ORDINANCES, STATUTES, OR CODES, THE WORK SHALL BE EXECUTED IN ACCORDANCE WITH SAID LAWS, REGULATIONS, ORDINANCES, STATUTES OR CODES, WITHOUT INCREASED COST TO THE OWNER, BUT NOT UNTIL THE POINTS IN QUESTION HAVE BEEN REFERRED TO THE ENGINEER FOR APPROVAL.

3. SCOPE OF WORK:

- A. WORK UNDER THIS SECTION SHALL CONSIST OF FURNISHING ALL LABOR, MATERIAL AND ASSOCIATED SERVICES REQUIRED TO COMPLETELY CONSTRUCT AND LEAVE READY FOR OPERATION SYSTEMS AS SHOWN ON THE DRAWINGS AND HEREIN DESCRIBED.
- B. ALL WORK PERFORMED UNDER THIS SECTION SHALL BE DONE IN A NEAT AND WORKMANLIKE MANNER.
- C. THE WORK REQUIRED UNDER THIS SECTION SHALL BE CAREFULLY LAID OUT IN ADVANCE, AND ANY EXCESS CUTTING OR CONSTRUCTION WILL NOT BE PERMITTED. CUTTING OF BUILDING STRUCTURAL MEMBERS IS PROHIBITED UNLESS SPECIFICALLY APPROVED BY THE ARCHITECT. CUTTING SHALL BE CAREFULLY DONE, AND DAMAGE TO BUILDINGS, PIPING, WIRING OR EQUIPMENT AS A RESULT OF CUTTING FOR INSTALLATION SHALL BE REPAIRED BY THE PLUMBER. MECHANICS OF THE TRADE INVOLVED AT NO ADDITIONAL EXPENSE TO THE OWNER.
- D. THE GENERAL CONTRACTOR WILL PROVIDE ALL CHASES IN WALLS WHERE INDICATED ON THE DRAWINGS FOR SYSTEMS REQUIRED UNDER THIS SECTION. THIS CONTRACTOR SHALL CHECK THE LOCATION AND FURNISH ALL INFORMATION TO THE GENERAL CONTRACTOR AS TO SIZE, ETC. SHOULD THIS CONTRACTOR FAIL TO NOTIFY THE GENERAL CONTRACTOR OF THE CHASE SPACE REQUIREMENTS PRIOR TO THE CONSTRUCTION OF SUCH CHASES, ALL COSTS INCURRED IN REVISING OR RELOCATING SUCH CHASES SHALL BE PAID BY THIS CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
- E. THIS CONTRACTOR SHALL EMPLOY A COMPETENT FOREMAN ON THE JOB TO SEE THAT WORK IS DONE IN ACCORDANCE WITH THE BEST PRACTICES AND IN A SATISFACTORY AND WORKMANLIKE MANNER. SHALL KEEP INFORMED AS TO THE WORK OF OTHER TRADES ENGAGED IN THE CONSTRUCTION OF THE PROJECT, AND SHALL EXECUTE HIS WORK IN SUCH A MANNER AS NOT TO INTERFERE WITH OR DELAY THE WORK OF OTHER TRADES.
- F. BEFORE FINAL ACCEPTANCE, EACH PIECE OF EQUIPMENT IN THE ENTIRE SYSTEM SHALL BE ADJUSTED AND READJUSTED TO INSURE PROPER FUNCTIONING. ALL SYSTEMS INSTALLED UNDER THIS SECTION SHALL BE OPERATED BY THIS CONTRACTOR FOR NOT LESS THAN ONE FULL DAY FOR INSTRUCTION OF THE OWNER'S REPRESENTATIVE. THIS CONTRACTOR SHALL FURNISH TO THE OWNER, CERTIFICATES OF FINAL INSPECTION AND APPROVAL FROM THE INSPECTION AUTHORITIES HAVING JURISDICTION.

4. MATERIALS AND EQUIPMENT:

- A. ALL ITEMS OF MATERIALS AND EQUIPMENT SHALL BE NEW, UNLESS OTHERWISE SPECIFIED HEREIN, FREE FROM DEFECTS AND OF THE BEST QUALITY NORMALLY USED FOR THE PURPOSE IN GOOD COMMERCIAL PRACTICE.

5. MATERIALS AND EQUIPMENT REVIEW:

- A. AS SOON AS POSSIBLE AFTER THE AWARD OF THE CONTRACT, THIS CONTRACTOR SHALL SUBMIT FOR REVIEW SIX COPIES OF SHOP DRAWINGS FOR ALL EQUIPMENT TO BE FURNISHED FOR THIS PROJECT. SUBMITTALS SHALL INCLUDE MANUFACTURER'S NAME, MODEL NUMBER, CAPACITY DATA, DESCRIPTIVE ENGINEERING DATA AND ALL NECESSARY INFORMATION AS TO FINISH, MATERIAL, GAUGES AND ACCESSORIES. AFTER SUCH SHOP DRAWINGS ARE PROCESSED, THREE COPIES WILL BE RETURNED TO THE CONTRACTOR. THE CONTRACTOR SHALL, UPON RECEIPT OF REVIEWED SHOP DRAWINGS, PROCEED WITH THE PROCUREMENT AND INSTALLATION OF SUCH APPROVED EQUIPMENT.
- B. PROPOSALS SUBMITTED FOR THIS PROJECT SHALL BE BASED ON SPECIFIED MATERIALS ONLY.

- C. AS SOON AS POSSIBLE AFTER THE AWARD OF THE CONTRACT, THIS CONTRACTOR SHALL MAKE ALL NECESSARY ARRANGEMENTS FOR THE DELIVERY OF ALL MATERIAL AND EQUIPMENT REQUIRED FOR THESE INSTALLATIONS. THIS CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY INABILITY TO OBTAIN SUITABLE DELIVERY OF ANY MATERIALS OR EQUIPMENT, AND THE POSSIBILITY OF SUBSTITUTIONS WILL BE CONSIDERED. MATERIAL DELIVERIES SHALL BE MADE SO THAT NO DELAYS IN CONSTRUCTION WILL OCCUR.
- D. FIXTURES AND EQUIPMENT SHALL BE TIGHTLY COVERED AND PROTECTED AGAINST DIRT OR WATER, AND AGAINST CHEMICAL OR MECHANICAL INJURY DURING INSTALLATION AND CONSTRUCTION PERIODS.

6. GUARANTEE:

- A. THIS CONTRACTOR SHALL GUARANTEE COMPLETE SYSTEM OPERATION AND THAT THE APPARATUS FURNISHED AND INSTALLED WILL BE FREE FROM DEFECTS IN WORKMANSHIP AND MATERIALS AND WILL GIVE SATISFACTORY SERVICE UNDER THE SPECIFIED OPERATING CONDITIONS. THIS CONTRACTOR AGREES TO REPLACE, WITHOUT EXPENSE TO THE OWNER, ANY PART OF THE APPARATUS WHICH PROVES OR BECOMES DEFECTIVE WITHIN ONE YEAR AFTER THE SYSTEM IS ACCEPTED.

7. FINAL REVIEW:

- A. THIS ENGINEER WILL PERFORM A FINAL REVIEW OF THIS WORK AND, IF ALL WORK IS FOUND TO BE AS REPRESENTED BY THE CONTRACTOR, THE ENGINEER WILL SUBMIT WRITTEN RECOMMENDATION OF ACCEPTANCE.

8. CLEAN-UP:

- A. AFTER COMPLETION OF THE WORK DESCRIBED IN THIS SPECIFICATION AND SHOWN ON THE DRAWINGS, THIS CONTRACTOR SHALL THOROUGHLY CLEAN ALL EQUIPMENT, REMOVE ALL LABELS AND STICKERS AND ANY DEBRIS, CRATING, CARTONS, ETC., AND LEAVE ALL INSTALLATIONS FINISHED AND READY FOR OPERATION.

9. COORDINATION:

- A. THIS CONTRACTOR SHALL EXAMINE ALL ARCHITECTURAL, STRUCTURAL AND OTHER DRAWINGS RELATED TO THIS PROJECT, AND IT SHALL BE HIS RESPONSIBILITY TO FURNISH AND INSTALL ALL ITEMS OF PLUMBING SYSTEMS REQUIRED FOR THIS PROJECT WITHOUT ADDITIONAL COST WHETHER OR NOT THEY ARE SPECIFICALLY CALLED FOR IN THIS SECTION OR SHOWN ON THE ASSOCIATED DRAWINGS.

10. TRAPS:

- A. ALL FLOOR DRAINS AND FIXTURES WITH WASTE CONNECTIONS SHALL BE SEPARATELY TRAPPED WITH A WATER SEALED TRAP PLACED AS CLOSE TO THE FIXTURE OR DRAIN AS POSSIBLE. THIS CONTRACTOR SHALL FURNISH AND INSTALL ALL TRAPS REQUIRED INCLUDING TRAPS NOT FURNISHED IN COMBINATION WITH FIXTURES AND EQUIPMENT. ALL EXPOSED TRAPS IN FINISHED SPACES SHALL BE CHROMIUM PLATED BRASS. PROVIDE DEEP SEAL TRAPS AND RUNNING TRAPS WHERE REQUIRED.

11. PIPING INSTALLATION:

- A. ENDS OF PIPE SHALL BE REAMED AND ALL BURRS REMOVED BEFORE INSTALLATION. PIPING SHALL BE CUT ACCURATELY TO MEASUREMENTS TAKEN ON THE JOB AND SHALL BE INSTALLED WITH AMPLE CLEARANCE FOR INSTALLATION OF COVERINGS.
- B. PIPING PASSING THROUGH WALLS OR FLOOR SHALL BE RUN FREE, USING PIPE SLEEVES AND SHALL NOT BE GROUTED IN PLACE. SLEEVES FOR PIPING TO BE INSULATED SHALL BE SIZED TO ALLOW FOR INSULATION THICKNESS. PIPING SHALL BE INSTALLED CONCEALED IN FINISHED ROOMS AND WHEREVER POSSIBLE. EXPOSED PIPES, WHERE PASSING THROUGH FLOORS, FINISHED WALL, OR FINISHED CEILINGS SHALL BE FITTED WITH CHROMIUM PLATED ESCUTCHEON PLATES. PLATES SHALL BE LARGE ENOUGH TO COMPLETELY CLOSE THE HOLES AROUND THE PIPES AND SHALL BE ROUND, NOT LESS THAN 1-1/2 INCHES LARGER THAN THE DIAMETER OF THE PIPE. PLATES SHALL BE SECURELY FASTENED IN PLACE.

- C. AT LEAST ONE PIPE UNION SHALL BE INSTALLED ADJACENT TO ALL VALVES THAT ARE SCREWED. HOT AND COLD SUPPLIES TO EACH FIXTURE AND WATER HEATER SHALL BE VALVED SEPARATELY AT THE FIXTURE. ALL SUPPLY PIPES TERMINATING AT VALVES OR FIXTURES SHALL BE PROVIDED WITH AIR CHAMBERS OF SUFFICIENT CAPACITY TO PREVENT WATER HAMMER.
- D. ALL HOT AND COLD WATER BRANCH LINES SHALL BE VALVED IN AN ACCESSIBLE LOCATION.

- E. ALL HOT AND COLD WATER PIPING SHALL BE ARRANGED TO DRAIN THE LOWEST POINT AND DRAIN VALVES WITH HOSE THREADS SHALL BE PROVIDED SO THAT THE ENTIRE SYSTEM CAN BE EMPTIED.

12. PIPING JOINTS:

- A. THREADED JOINTS SHALL BE CUT FULL AND CLEAN, WITH NOT MORE THAN THREE THREADS EXPOSED BEYOND FITTINGS. JOINTS SHALL BE MADE UP TIGHT WITH GRAPHITE BASE PIPE JOINT OF ALL MATERIAL AND EQUIPMENT REQUIRED FOR THESE INSTALLATIONS. THIS CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY INABILITY TO OBTAIN SUITABLE DELIVERY OF ANY MATERIALS OR EQUIPMENT, AND THE POSSIBILITY OF SUBSTITUTIONS WILL BE CONSIDERED. MATERIAL DELIVERIES SHALL BE MADE SO THAT NO DELAYS IN CONSTRUCTION WILL OCCUR.
- B. SWEAT OR SOLDERED JOINTS IN COPPER WATER PIPING SHALL BE MADE BY THE APPROPRIATE USE OF APPROVED BRASS WATER FITTINGS PROPERLY SWEATED OR SOLDERED TOGETHER. FLARED JOINTS WHERE SPECIFIED FOR SOFT COPPER TUBING SHALL BE MADE WITH FITTINGS MEETING APPROVED STANDARDS. SURFACES TO BE SOLDERED OR SWEAT SHALL BE CLEANED BRIGHT, PROPERLY FLUXED WITH APPROVED NONCORROSIVE PASTE TYPE FLUX AND MADE WITH 95-5 OR 94-6 SOLDER. THE USE OF SELF-CLEANING FLUXES, 50-50 SOLDER OR PASTE TYPE SOLDER IS PROHIBITED. FLARED JOINTS SHALL BE MADE BY EXPANDING THE TUBE WITH A PROPER FLARING TOOL. ALL TUBES SHALL BE PROPERLY REAMED.
- C. JOINTS IN BELL AND SPIGOT CAST IRON SOIL PIPE SHALL BE OF SOFT PIG LEAD AND OKUM WITH LEAD NOT LESS THAN 1 INCH DEEP, AND INSTALLED IN ONE FOUR OR TYLER TV-SEAL GASKETS UNDERGROUND ONLY.
- D. JOINTS FOR NO-HUB PIPE SHALL BE NEOPRENE WITH STAINLESS STEEL BANDS.
- E. JOINTS FOR PLASTIC PIPE, WHEN PERMITTED, SHALL BE SOLVENT WELDED IN ACCORDANCE WITH THE PIPE MANUFACTURER'S RECOMMENDATIONS.

13. DOMESTIC HOT AND COLD WATER PIPING:

- A. ALL DOMESTIC HOT AND COLD WATER PIPING WITHIN THE BUILDING SHALL BE COPPER. UNDERGROUND WATER SERVICE OUTSIDE OF THE BUILDING MAY BE TYPE "K" SOFT TEMPER COPPER OR DUCTILE IRON OR CAST IRON PIPE WITH SUPER BELL-TITE, MECHANICAL OR FLANGED JOINTS.
- B. COPPER PIPING INSTALLED UNDERGROUND SHALL BE OF TYPE "K" SOFT TEMPER COPPER. PIPING SHALL BE HARD TEMPER TYPE "L". ALL COPPER PIPING SHALL CONFORM TO ASTM-B-88 REQUIREMENTS. CAST IRON OR DUCTILE IRON PIPE SHALL CONFORM TO USASI, AWWA AND FEDERAL SPECIFICATIONS.
- C. FITTINGS FOR USE WITH TYPE "K" AND "L" COPPER PIPING SHALL BE WROUGHT COPPER SOLDER-JOINT. UNIONS SHALL BE GROUND JOINT TYPE AND SHALL BE INSTALLED WHERE NECESSARY TO PROVIDE EASE OF DISCONNECTION OF THE PIPING SYSTEM. FITTINGS INSTALLED UNDERGROUND SHALL BE HELD TO A MINIMUM.
- D. WHEN A CONNECTION BETWEEN COPPER PIPE AND FERROUS PIPE IS NECESSARY, SAID CONNECTION SHALL BE MADE BY USING BRASS CONVERTER FITTING.
- E. DRAINS INDICATED ON THE DRAWINGS AND AT LOW POINTS IN CONNECTION WITH THE HOT AND COLD WATER DISTRIBUTION SYSTEM SHALL CONSIST OF 1/2 INCH FAUCET WITH HOSE THREADS. DRAINS SHALL BE INSTALLED AT LOW POINTS IN THE HOT AND COLD WATER PIPING AND ALL PIPING SHALL GRADE TO DRAIN.
- F. DOMESTIC HOT AND COLD WATER PIPING SHALL BE 1-1/2 INCH PIPE AND SMALLER - 6 FEET 2 INCH PIPE AND LARGER - 10 FEET

14. CROSS CONNECTIONS AND INTERCONNECTIONS:

- A. NO INSTALLATION SHALL BE MADE OF PLUMBING FIXTURE, DEVICE OR PIPING THAT WILL PROVIDE A CROSS CONNECTION OR INTERCONNECTION BETWEEN A DISTRIBUTING WATER SUPPLY FOR DRINKING OR DOMESTIC PURPOSES AND A POLLUTED SUPPLY SUCH AS A DRAINAGE SYSTEM OR A SOIL OR WASTE PIPE THAT WILL PERMIT OR MAKE POSSIBLE A BACKFLOW OF SEWAGE, POLLUTED WATER OR WASTE INTO THE WATER SUPPLY SYSTEM.

15. SOIL, WASTE, DRAIN AND VENT PIPING:

- A. UNDERGROUND SOIL, WASTE, DRAIN AND VENT PIPE AND FITTINGS, THROUGHOUT THE BUILDING BELOW THE BASE SLAB TO THE LOCATIONS NOTED OUTSIDE OF THE BUILDING, SHALL BE COATED HUB-AND- SPIGOT CAST IRON AND PVC SCHEDULE 40 PLASTIC WHERE PERMITTED BY GOVERNING CODES. NO-HUB PIPE WILL NOT BE PERMIT TEST UNDERGROUND.
- B. SOIL, WASTE, DRAIN, VENT PIPE, AND FITTINGS ABOVE GROUND INSIDE OF THE BUILDING SHALL BE SERVICE WEIGHT HUB-AND- SPIGOT, NO-HUB CAST IRON PIPE, WROUGHT IRON, OR PVC SCHEDULE 40 PLASTIC WHERE PERMITTED BY GOVERNING CODES. GALVANIZED STEEL OR WROUGHT IRON MAY BE USED FOR VENT PIPING ONLY.

- C. CHANGES IN PIPE SIZE ON SOIL, WASTE, AND DRAIN LINES SHALL BE MADE WITH REDUCING FITTINGS. CHANGES IN DIRECTION IN DRAINAGE PIPING SHALL BE MADE BY THE APPROPRIATE USE OF 45 DEGREE Y'S, LONG OR SHORT SWEEP, QUARTER BENDS, SIXTH, EIGHTH, OR SIXTEENTH BENDS, OR BY A COMBINATION OF THESE OR EQUIVALENT FITTINGS. SINGLE AND DOUBLE SANITARY TEES AND SHORT QUARTER BENDS MAY BE USED IN DRAINAGE LINES ONLY WHERE THE DIRECTION OF FLOW IS FROM THE HORIZONTAL TO THE VERTICAL. QUARTER BENDS MAY BE USED IN SOIL AND WASTE LINES ON THE DISCHARGE FROM WATER CLOSETS IN SLAB ON GRADE AREAS.
- D. SEWER LINES SHALL BE LOCATED IN GENERAL AS SHOWN ON THE DRAWINGS. THE EXACT LOCATIONS SHALL BE DETERMINED BY THIS CONTRACTOR IN SUCH A MANNER AS TO MAINTAIN PROPER CLEARANCES AND SUFFICIENT SLOPE TO INSURE DRAINAGE.

- E. HORIZONTAL SOIL, WASTE, AND DRAIN PIPES SHALL BE GIVEN A GRADE OF NOT LESS THAN 1/4 INCH PER FOOT FOR SIZES UP TO 3 INCHES UNLESS OTHERWISE SHOWN ON THE DRAWINGS OR APPROVED IN WRITING BY THE ENGINEER. HORIZONTAL SOIL, WASTE, AND DRAIN PIPES SHALL BE GIVEN A GRADE OF NOT LESS THAN 1/8 INCH PER FOOT FOR SIZES 4 INCHES AND LARGER WHEN FIRST APPROVED BY THE ADMINISTRATIVE AUTHORITY.

- F. VENT STACKS SHALL BE EXTENDED FULL SIZE THROUGH THE ROOF AND FLASHED WITH 4 POUND LEAD SHEETS TURNED DOWN INTO THE STACK AT LEAST 2 INCHES AND EXTENDED 12 INCHES IN ALL DIRECTIONS FROM THE PIPE AT THE ROOF LINE. VENTS THROUGH ROOF SHALL NOT BE LESS THAN 2 INCHES

- G. VENTS SHALL BE AIR AND WATER TIGHT.

- H. VENT CONNECTIONS SHALL BE INSTALLED ON ALL FIXTURES AND EQUIPMENT CONNECTED TO SOIL AND WASTE SYSTEMS AND ALL FLOOR DRAINS SHALL BE VENTED OR CONNECTED TO A VENTED LINE AS SHOWN ON THE DRAWINGS AND AS REQUIRED BY CODE.

- I. ALL VENT STACKS IN OR AT OUTSIDE WALLS SHALL BE OFFSET 1'-6" MINIMUM FROM OUTSIDE WALLS BEFORE GOING THROUGH THE ROOF, TO FACILITATE FLASHING.

- J. RISERS SHALL BE INSTALLED ABSOLUTELY PLUMB AND STRAIGHT. BRANCHES SHALL BE RUN IN STRAIGHT LINES AND PITCH UNIFORMLY TO MAINS.

- K. RISERS, BRANCHES AND MAINS SHALL BE CONCEALED IN THE CONSTRUCTION EXCEPT WHERE SHOWN OTHERWISE. BRANCHES FOR CLOSETS SHALL BE FINISHED AT THE WALL LINE WITH PROPER FLANGE TO RECEIVE THE FIXTURE WHEN SET, AND THEY SHALL BE TRUE AND LEVEL SO THAT CLOSET BASE WILL HAVE FULL BEARING ON THE WALL.

- L. ALL SOIL AND VENT STACKS SHALL OFFSET WHERE REQUIRED TO MISS OBSTRUCTIONS AND AS REQUIRED TO CLEAR FLOOR BEAMS AND SPANDREL BEAMS AT FLOOR LINES AND HUG WALL CONSTRUCTION ABOVE FLOOR.

- M. PROHIBITED FITTINGS, THE DRILLING AND TAPPING OF BUILDING DRAINS, SOIL, WASTE OR VENT PIPE AND THE USE OF SADDLE HUBS OR BANDS IS PROHIBITED. ANY FITTING OR CONNECTION WHICH HAS AN ENLARGEMENT CHAMBER OR RECESS WITH A LEDGE, SHOULDER OR REDUCTION OF THE PIPE AREA THAT OFFERS AN OBSTRUCTION TO THE FLOW IS PROHIBITED.

- N. PROHIBITED CONNECTIONS. NO FIXTURES, DEVICES OR CONSTRUCTION SHALL BE INSTALLED WHICH WOULD ALLOW A BACKFLOW CONNECTION BETWEEN A DISTRIBUTION SYSTEM OF WATER FOR DRINKING AND DOMESTIC PURPOSES TO THE DRAINAGE SYSTEM, SOIL OR WASTE PIPING SO AS TO PERMIT OR MAKE POSSIBLE THE BACKFLOW OF SEWAGE OR WASTE INTO THE WATER SYSTEM.

16. INSULATION:

- A. ALL COLD WATER PIPING SHALL BE INSULATED WITH CERTAIN-TEED/ST. GOBAIN SNAP-ON 1/2 INCH THICK GLASS FIBER PIPE INSULATION IN MOLDED SECTIONS WITH FACTORY APPLIED VAPOR BARRIER JACKET, UNIVERSAL JACKET, OR APPROVED EQUAL. THE END JOINT STRIPS AND OVERLAP SEAMS SHALL BE SEALED WITH A VAPOR BARRIER MASTIC AND STAPLED WITH OUTWARD CLINCHING STAPLES SPACED NOT TO EXCEED 4 INCH CENTERS. STAPLES AND SEAMS SHALL BE SEALED WITH A COAT OF VAPOR BARRIER MASTIC.

- B. ALL DOMESTIC HOT WATER PIPING SHALL BE INSULATED WITH 1/2 INCH THICK CERTAIN-TEED/ST. GOBAIN SNAP-ON GLASS FIBER PIPE INSULATION IN MOLDED SECTIONS WITH FACTORY APPLIED CANVAS JACKET, UNIVERSAL JACKET, OR APPROVED EQUAL. THIS INSULATION SHALL BE CLOSELY BUTTED TOGETHER AND SECURED BY PASTING THE CANVAS LAP.

- C. ALL PIPING SURFACES TO BE INSULATED SHALL BE CLEAN AND DRY AND PIPING SHALL HAVE BEEN TESTED AND APPROVED BEFORE THE INSULATION IS APPLIED.

- D. ALL VALVES, FITTINGS AND FLANGES SHALL BE INSULATED WITH CERTAIN-TEED/ST. GOBAIN SNAP-ON GLASS FIBER PIPE INSULATION, OR APPROVED EQUAL. INSULATION SHALL BE SECURELY HELD IN PLACE AND COVERED WITH ZESTON PER-MOLTED FEED CHLORINE TIGHT COVERS. FITTING COVERS MAY BE PROVIDED WITH FIBERGLASS INSULATION INSERTS.

- E. ALL PIPE INSULATION SHALL BE INSTALLED IN A NEAT AND WORKMANLIKE MANNER BY AN INSULATION CONTRACTOR REGULARLY ENGAGED IN INSULATION WORK.

- F. PROVIDE HEAVY DENSITY CALCIUM SILICATE BLOCKS AT ALL HANGER LOCATIONS ON LINES TO BE INSULATED, UNLESS OTHERWISE NOTED OR SPECIFIED.

17. WATER HAMMER:

- A. WATER HAMMER ARRESTORS SHALL BE PROVIDED FOR ALL QUICK CLOSING VALVES INCLUDING BUT NOT LIMITED TO DRINKING FOUNTAINS, DISHWASHERS, FAUCETS, FLUSHOMETER VALVES, ICE MAKERS, SELF-CLOSING VALVES, SPRING LOADED VALVES, AND WASHING MACHINES AND AS REQUIRED BY THE LOCAL INSPECTION AUTHORITY HAVING JURISDICTION.
- B. WATER HAMMER ARRESTORS SHALL BE INSTALLED PER MANUFACTURER SPECIFICATIONS AND SHALL CONFORM TO ASSE 1010 AND PER STANDARD PDI-WH-201.
- C. WATER HAMMER ARRESTOR SHALL BE WILKINS MODEL 1250 OR APPROVED EQUAL. AIR CHAMBERS ARE NOT PERMITTED.

18. PIPE HANGERS AND SUPPORTS:

- A. ALL NON-INSULATED COPPER PIPING SHALL BE SUPPORTED BY GRINNELL FIGURE CT109 WITH GRINNELL FIGURE CT114 MALLEABLE IRON COPPER PLATED HANGERS. ALL NON-INSULATED STEEL AND CAST IRON PIPE SHALL BE SUPPORTED WITH GRINNELL FIGURE 108 WITH FIGURE 114 HANGERS COMPLETE WITH TURNBUCKLE ADJUSTERS OR APPROVED EQUAL. NO PERFORATED STRAP IRON HANGERS OR WIRE HANGERS WILL BE ALLOWED.

- B. INSULATED PIPING SHALL BE PROVIDED WITH GRINNELL FIGURE 260 ADJUSTABLE CLEVIS HANGERS INSTALLED EXTERIOR TO INSULATION AND PROVIDE FIGURE 168 SHIELD AT EACH HANGER, UNLESS OTHERWISE NOTED OR SPECIFIED.

- C. PROVIDE GRINNELL FIGURE 261 RISER CLAMPS AT ALL FLOOR PENETRATIONS.

19. TESTING:

- A. ALL PLUMBING SYSTEMS INSTALLED UNDER THIS SECTION OF THESE SPECIFICATIONS SHALL BE TESTED AND APPROVED AS HEREIN DESCRIBED AND AS REQUIRED BY THE LOCAL INSPECTION AUTHORITY HAVING JURISDICTION.
- B. THE NEW DRAINAGE AND VENT SYSTEM SHALL BE TESTED BY PLUGGING ALL OPERATING TRAPS, PLUGS, EXCEPT THOSE AT THE TOPS OF STACKS, AND FILLING THE SYSTEM WITH WATER. TEST RESULTS WILL BE SATISFACTORY IF THE WATER LEVEL REMAINS STATIONARY FOR NOT LESS THAN ONE HOUR WHEN ALL PARTS OF THE SYSTEM ARE SUBJECTED TO A PRESSURE OF AT LEAST 10 FEET OF WATER. IF LEAKS DEVELOP, THEY SHALL BE REMEDIED AND THE TEST REPEATED AFTER THE SYSTEM IS MADE TIGHT.
- C. THE WATER SYSTEM TEST PROCEDURE SHALL CONSIST OF CHARGING THE ENTIRE SYSTEM TO OPERATING PRESSURE AND THEN ISOLATING THE SYSTEM FROM ITS SOURCE. THE SYSTEM SHALL REMAIN CLOSED FOR A PERIOD OF 24 HOURS WITH NO FIXTURE BEINGS USED. THE PRESSURE DIFFERENTIAL FOR THIS 24-HOUR PERIOD SHALL NOT EXCEED 5 PSIG.
- D. THE INSPECTION AUTHORITY HAVING JURISDICTION AND THE ARCHITECT SHALL BE NOTIFIED AT LEAST 24 HOURS PRIOR TO THE PERFORMANCE OF ALL TESTS SO THE TESTS MAY BE WITNESSED IF DEEMED NECESSARY.
- E. ALL PLUMBING FIXTURES AND ACCESSORIES SHALL BE TESTED, ADJUSTED AND MADE FREE OF LEAKS.

20. WATER SYSTEM FLUSHING AND STERILIZATION:

- A. IMMEDIATELY UPON COMPLETION OF THE NEW WATER DISTRIBUTION SYSTEM AND PRIOR TO PLACING THIS SYSTEM IN SERVICE, THE ENTIRE NEW SYSTEM SHALL BE FLUSHED AND STERILIZED.
- B. THIS SYSTEM SHALL BE FILLED WITH WATER SLOWLY AND CAREFULLY SO THAT AIR MAY READILY ESCAPE THROUGH OPEN DRAINS AND FIXTURE VALVES. ALL DRAINS AND FIXTURE VALVES SHALL BE OPENED, STARTING WITH VALVES NEAREST THE WATER SERVICE ENTRY, AND WATER RUN UNTIL IT HAS RUN CLEAR FROM ALL OUTLETS FOR NOT LESS THAN 10 MINUTES.

- C. AFTER THIS ENTIRE WATER SYSTEM HAS BEEN THOROUGHLY FLUSHED, THIS CONTRACTOR SHALL STERILIZE THE ENTIRE SYSTEM AS REQUIRED BY LOCAL CODES AND THE STATE BOARD OF HEALTH. IN THE EVENT THAT LOCAL CODES OR THE STATE BOARD OF HEALTH DO NOT HAVE SPECIFIC REQUIREMENTS FOR WATER SYSTEM STERILIZATION, THE FOLLOWING PROCEDURE SHALL BE EMPLOYED:

- (1) A CHLORINE WATER MIXTURE OF A CHLORINE BEARING COMPOUND SUCH AS HIGH TEST CALCIUM HYPOCHLORITE OR SODIUM HYPOCHLORITE SHALL BE INTRODUCED INTO THE SYSTEM AT THE BEGINNING OF THE BUILDING WATER SERVICE.
- (2) IF A CHLORINE GAS WATER MIXTURE IS USED, IT SHALL BE FED INTO THE SYSTEM BY MEANS OF A SOLUTION FEED CHLORINE TIGHT DEVICE WHICH MUST BE EQUIPPED WITH MEANS FOR PREVENTING THE BACKFLOW OF WATER INTO THE CHLORINE CYLINDER.
- (3) IF CHLORINE BEARING COMPOUND SUCH AS A HIGH TEST CALCIUM HYPOCHLORITE OR SODIUM HYPOCHLORITE IS USED, THE POWDER SHALL FIRST BE MADE INTO A PASTE AND THEN THINNED TO APPROXIMATELY 1% CHLORINE SOLUTION (10,000 PPM).

- (4) THE RATE OF CHLORINE MIXTURES FLOW INTO THE SYSTEM SHALL BE PROPORTIONATE TO THE RATE OF WATER ENTERING THE PIPE SO THAT A CHLORINE DOSE OF NOT LESS THAN 10 PPM WILL BE PRODUCED THROUGHOUT THE SYSTEM. THIS SOLUTION SHALL BE RETAINED IN THE SYSTEM FOR NOT LESS THAN 24 HOURS AND SHALL PRODUCE NOT LESS THAN 10 PPM OF CHLORINE AT THE END OF THE RETENTION PERIOD.

- (5) THE SYSTEM BEING STERILIZED SHALL BE ISOLATED FROM THE WATER SUPPLY SOURCE SO AS TO POSITIVELY ASSURE THAT TREATED WATER WILL NOT BACKFLOW INTO THE WATER SUPPLY LINE. SYSTEM STERILIZATION SHALL BE PERFORMED IN COOPERATION WITH THE SERVING UTILITY AND SHALL COMPLY IN ALL RESPECTS WITH THEIR REQUIREMENTS.

- (6) AFTER STERILIZATION IS COMPLETED THE ENTIRE SYSTEM SHALL BE FLUSHED AND TESTED. TEST RESULTS SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW PRIOR TO ACCEPTANCE OF THIS PROJECT.

21. ACCESS DOORS:

- A. THIS PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR REVIEWING THE ARCHITECTURAL PLANS/ SPECIFICATIONS AND ADVISING THE GENERAL CONTRACTOR PRIOR TO BIDDING OF THE NEED FOR ACCESS DOORS IN SHEETROCK OR PLASTERED CEILINGS AND WALLS AND ALL OTHER LOCATIONS WHERE ACCESS IS REQUIRED FOR PLUMBING COMPONENTS.
- B. ACCESS DOORS SHALL BE FLUSH-MOUNTED OF A STYLE SPECIFICALLY SUITED FOR THE TYPE OF CONSTRUCTION IN WHICH THEY ARE TO BE USED, AND SIZES AND COLORS SHALL BE SUBMITTED TO THE ARCHITECT FOR APPROVAL. IN AREAS WHERE THERE ARE REMOVABLE CEILINGS, ACCESS DOORS MAY BE OMITTED, PROVIDED CEILING PANELS USED FOR ACCESS ARE CLEARLY MARKED. THE TYPE OF ACCESS DOOR USED SHALL BE MILCOR, OR AN APPROVED EQUAL.
- C. ACCESS DOORS SHALL BE FURNISHED BY THE PLUMBING CONTRACTOR FOR INSTALLATION BY THE GENERAL CONTRACTOR.
- D. IN THE EVENT THAT THE PLUMBING CONTRACTOR FAILS TO ADVISE THE GENERAL CONTRACTOR OF THE NEED FOR ACCESS DOORS PRIOR TO BIDDING, THE COST TO FURNISH AND INSTALL ACCESS DOORS SHALL BE THE RESPONSIBILITY OF THE PLUMBING CONTRACTOR.

22. PLUMBING FIXTURES:

- A. ALL FIXTURES SHOWN ON THE DRAWINGS OR HEREIN SPECIFIED SHALL BE FURNISHED AND INSTALLED, SET FIRM AND TRUE, CONNECTED TO ALL REQUIRED PIPING SERVICES, THOROUGHLY CLEANED, AND LEFT READY FOR USE.
- B. ALL EXPOSED FITTINGS AND PIPING AT THE FIXTURES SHALL BE CHROME PLATED. SUPPLY PIPING SHALL BE VALVED AT EACH FIXTURE.
- C. ALL CHINA FIXTURES SHALL BE NEW, OF THE BEST GRADE VITREOUS WARE, WITHOUT PIT HOLES OR BLEMISHES, AND THE OUTLINES SHALL BE GENERALLY TRUE. ALL FIXTURES OF THE SAME TYPE SHALL BE OF ONE MANUFACTURER THROUGHOUT THE ENTIRE INSTALLATION. THE ENGINEER RESERVES THE RIGHT TO REJECT ANY EQUIPMENT WHICH, IN HIS OPINION, IS FAULTY. ALL FIXTURES AND FLANGES ON SOIL PIPE SHALL BE MADE ABSOLUTELY TIGHT AND PUTTY WILL NOT BE PERMITTED FOR THE WATER CONNECTION. CLOSET BOLTS SHALL BE NOT LESS THAN 1/4 INCH IN DIAMETER AND SHALL BE ELEVATED ABOVE THE FINISH FLOOR SURFACE. WASHERS, FIXTURES WITH OUTLET FLANGES SHALL BE SET AT THE PROPER DISTANCE FROM FLOOR OR WALL TO MAKE A FIRST CLASS JOINT WITH THE CLOSET SETTING COMPOUND OR GASKET AND THE FIXTURES USED.

- D. PLUMBING FIXTURES SHALL BE AS SPECIFIED BELOW, OR EQUIVALENT PRODUCTS AS MANUFACTURED BY ELJER, AMERICAN STANDARD, JAY R. SMITH, OR WADE, AS APPLICABLE. ALL WATER CLOSETS, LAVATORIES, URINALS AND SINKS SHALL BE PRODUCTS OF ONE MANUFACTURER. FIXTURES SHALL BE INSTALLED CONFORM WITH ALL NECESSARY REQUIREMENTS AND TRIM. INSTALLATION OF COUNTERTOP SINKS SHALL BE COORDINATED WITH THE COUNTERTOP SUPPLIER.
- E. LAVATORY (SYMBOL "LAV-1"): KOHLER K-7404 TRITON II FAUCET WITH 4 INCH SPOUT WITH AERATOR AND GRID DRAIN; K-7607 3/8 INCH SUPPLY PIPE RISER WITH LOOSEKEY STOPS; K-9000 1-1/4 INCH CAST BRASS "P" TRAP WITH ESCUTCHEON AND ZURN Z-1231 CARRIER. INSULATE WITH PLUMBEREX MODEL NO. 3012 AND 3022, OR EQUAL, IVORY TRAP AND SUPPLY COVERS.
- F. LAVATORY (SYMBOL "LAV-2"): KOHLER K-2005 "KINGSTON", VITREOUS CHINA LAVATORY WITH 4 INCH CENTERS FOR CONCEALED ARMS, WITH FRONT OVERFLOW, SIZE 20 INCH X 18 INCH, K-7404 TRITON II FAUCET WITH 4 INCH SPOUT WITH AERATOR AND GRID DRAIN; K-7607 3/8 INCH SUPPLY PIPE RISER WITH LOOSEKEY STOPS; K-9000 1-1/4 INCH CAST BRASS "P" TRAP WITH ESCUTCHEON AND ZURN Z-1231 CARRIER. INSULATE WITH PLUMBEREX MODEL NO. 3012 AND 3022, OR EQUAL, IVORY TRAP AND SUPPLY COVERS.

23. PAINTING: (SEE ARCHITECTURAL SECTION "PAINTING")

- A. EQUIPMENT WHICH HAS DAMAGED FINISH SHALL BE REPAINTED TO MATCH THE ORIGINAL FACTORY FINISH.
- B. ALL EXPOSED FERROUS METAL FURNISHED UNDER THIS CONTRACT, SUCH AS HANGERS, STRUTS, STRUCTURAL STEEL, ETC. SHALL BE GIVEN ONE COAT OF TNEMC GRAY PRIMER.

24. CONTINGENCIES:

- A. THE PLUMBING CONTRACTOR SHALL DO ALL DEMOLITION, ALTERATIONS AND REWORK INDICATED AND/OR REQUIRED TO MAINTAIN THE OPERATION OF ALL EXISTING PLUMBING SYSTEMS AND TO INTEGRATE THE SYSTEMS IN THE NEW AND EXISTING BUILDINGS WHERE REQUIRED. THIS CONTRACTOR SHALL INCLUDE ALL CONTINGENCIES WHICH MAY ARISE AND WHICH MAY BE REQUIRED BY ALTERATIONS AND DEMOLITION WORK. THIS SHALL INCLUDE ALL REMOVAL, RELOCATION AND REWORKING OF PIPING, ITEMS OF PLUMBING EQUIPMENT, ETC. EXISTING SYSTEMS AND NEW SYSTEMS SHALL BE COMPLETELY INTEGRATED AS INTENDED AND AS INDICATED ON THE PLANS AND IN THE SPECIFICATIONS. THIS CONTRACTOR SHALL VISIT THE SITE AND SHALL SATISFY HIMSELF AS TO THE EXTENT OF ALL CONTINGENCIES AND SHALL INCLUDE THE COST OF SAME IN HIS BID.

25. SCHEDULE OF WORK:

- A. THE PLUMBING CONTRACTOR SHALL SCHEDULE ALL SERVICE INTERRUPTIONS TO THE EXISTING BUILDING WITH THE OWNER'S REPRESENTATIVE. SUCH INTERRUPTIONS SHALL BE PLANNED SO AS TO BE AT TIMES TO CAUSE THE LEAST INCONVENIENCE AND INTERRUPTION TO THE FACILITY'S SCHEDULE. WHEN POSSIBLE, SERVICE INTERRUPTIONS TO ANY CERTAIN AREA SHALL BE SCHEDULED TO COINCIDE WITH TIMES WHEN OTHER CONTRACTORS ARE WORKING IN THE SAME AREA.
- B. DEMOLITION-ABANDONED WORK MOVING OF EXISTING EQUIPMENT:
- A. THE PLUMBING CONTRACTOR SHALL REMOVE ALL PLUMBING, PIPING, EQUIPMENT, ETC., WHICH NO LONGER SERVES A PURPOSE IN ALTERED AREAS. HE SHALL REMOVE UNUSED FIXTURES AND EXPOSED PIPING. REMOVE PIPING CONNECTED TO FIXTURES BACK TO MAIN AND CAP, OR REMOVE TO AT LEAST 2 INCHES BEHIND FINISHED SURFACES AND CAP. UNLESS OTHERWISE NOTED, FIXTURES SHALL BE SALVAGED FOR THE OWNER. THE PLUMBING CONTRACTOR SHALL MAINTAIN PLUMBING SERVICES (WASTE, VENTS, GAS, HOT AND COLD WATER PIPING AND ROOF DRAIN) TO ALL EXISTING AREAS REQUIRING SUCH SERVICES. HE SHALL REROUTE AS REQUIRED SUCH SERVICES WHICH ARE DISRUPTED DUE TO ARCHITECTURAL CHANGES IN THE EXISTING STRUCTURE. ANY EQUIPMENT WHICH IS DESIGNATED TO BE REUSED AND WHICH IS DAMAGED IN THE PROCESS, SHALL BE REPLACED BY THE PLUMBING CONTRACTOR WITH NEW EQUIPMENT OF LIKE KIND AT NO COST TO THE OWNER.

27. JOB REQUIREMENT:

- A. ALL EXISTING CONDITIONS SHOWN ON THE DRAWINGS AND DESCRIBED IN THE SPECIFICATIONS FOR THIS PROJECT HAVE BEEN DETERMINED FROM ALLEGED AS-BUILT DRAWINGS AND FIELD INVESTIGATIONS. CONTRACTORS MAKING PROPOSALS FOR THIS WORK SHALL INVESTIGATE ALL EXISTING CONDITIONS AND BASE THEIR PROPOSALS ON THEIR OBSERVATIONS TO PROVIDE COMPLETE AND FUNCTIONING INSTALLATIONS IN ACCORDANCE WITH THE INTENT OF THE DRAWING AND SPECIFICATIONS FOR THIS PROJECT AND ALL APPLICABLE GOVERNING CODES, RULES, REGULATIONS AND ORDINANCES. FAILURE TO DETERMINE EXISTING CONDITIONS WHICH CAUSE ADDITIONAL WORK WILL NOT CONSTITUTE GROUNDS FOR ADDITIONAL COMPENSATION. *****

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• June 25, 2010

Revised Date

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SHEET CONTENTS
• SPECIFICATIONS
• PLUMBING

PROJECT NUMBER

• 0908.02

SHEET NUMBER

ME4.2

PERMIT DOCUMENTS

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NOTES:

- 1 GAS PRESSURE TO BE REDUCED AT METER ASSEMBLY TO 7 IN. WG.
- 2 PRESSURE TO BE REDUCED TO 7 IN. WG. TO SERVE EQUIPMENT.
- 3 LOADS ABOVE ARE MAXIMUM SCHEDULED VALUES. ACTUAL CONSUMPTION MAY BE LESS

- 10 INSTALL AHU-8 ON ELEVATED DECK ABOVE MEN'S TOILET 124. DUCT SUPPLY AND RETURN AIR UP TO DISCHARGE SIDEWALL INTO STORAGE ROOM ON UPPER LEVEL
- 11 INSTALL GRILLES TO DISCHARGE/DRAW SIDEWALL INTO UPPER STORAGE.
- 12 8"x8" OUTSIDE AIR DUCT UP TO 8" OPENING ON ROOF. PROVIDE DAMPER FOR AIRFLOW BALANCING.

PLAN NOTES:

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Date
● June 25, 2010

Revised Date
● 1 CITY COMMENTS 1-10-11

SHEET CONTENTS

- MAIN LEVEL FLOOR PLAN -
- HVAC

PROJECT NUMBER
● 0908.02

SHEET NUMBER

M1.1

PERMIT DOCUMENTS



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project number 0919700

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project number 0919700

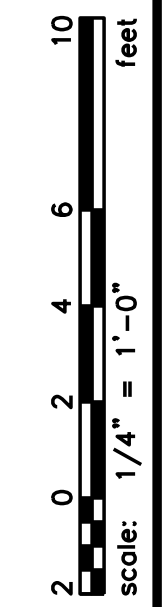
project number 0919700

 **MAIN LEVEL FLOOR PLAN - HVAC**
SCALE: 1/8" = 1'-0"

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HOPE FAITH MINISTRIES - WAREHOUSE RENOVATION
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PROJECT NAME:
AUTOCAD FILE LOCATION \ NAME:
LAST CORRECTION BY ♦ DATE ♦ TIME:
PLOTTED BY ♦ DATE ♦ TIME:



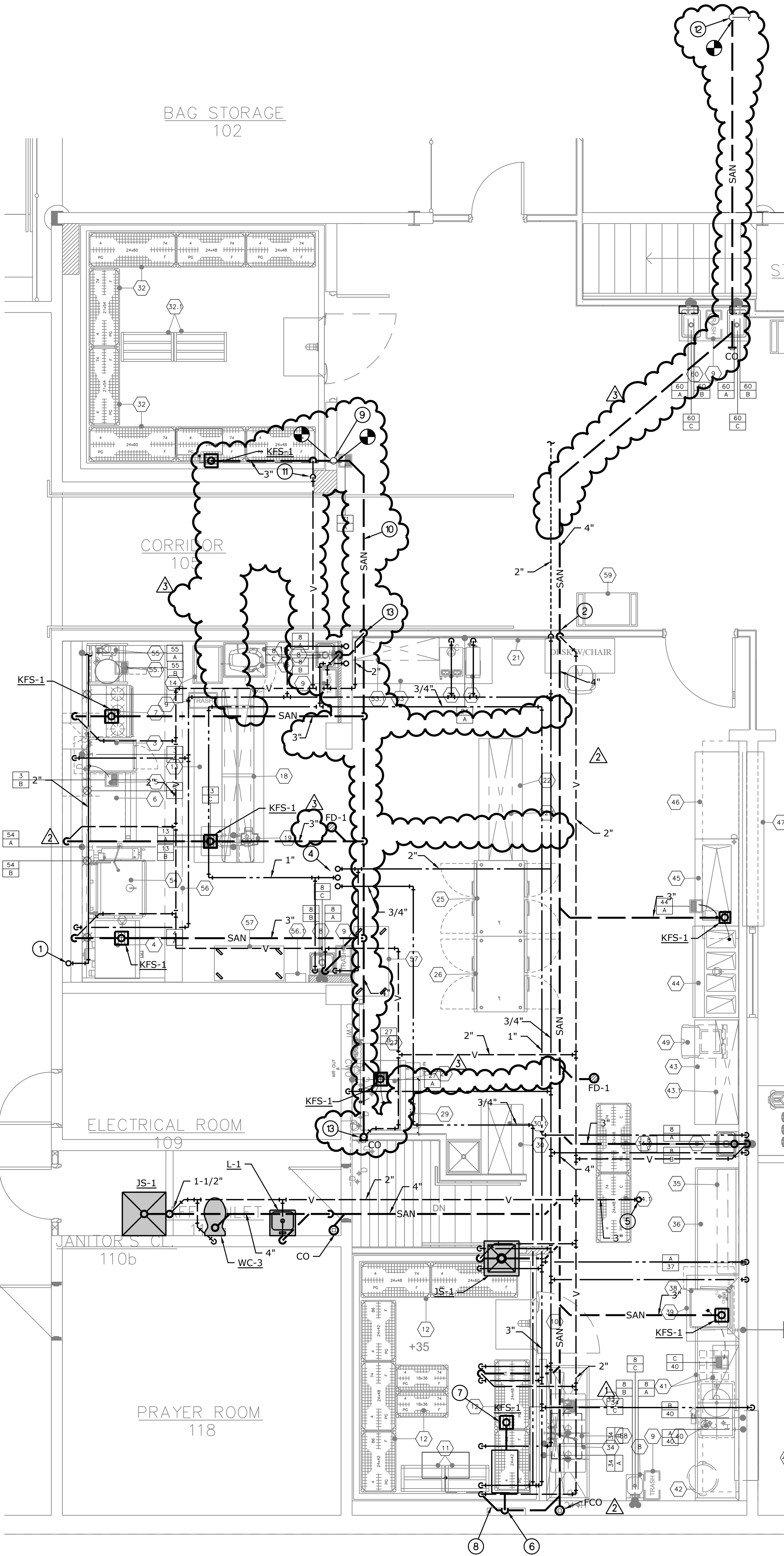
HOPE FAITH MINISTRIES - WAREHOUSE RENOVATION
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LAST CORRECTION: 10/12/10 2:57 pm
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PROJECT NAME: HOPE FAITH MINISTRIES - WAREHOUSE RENOVATION
LAST CORRECTION: 10/12/10 2:57 pm
PLOT BY: DATE: TIME:
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EQUIPMENT SCHEDULE		
ITEM NO	QTY	EQUIPMENT CATEGORY
1	1LT	DRY STORAGE SHELVING - BY OWNER/NOT SHOWN
2	1	DRY STORAGE PALLET - BY OWNER/NOT SHOWN
3	1	CONVECTION STEAMER, ELEC.
4	1	DOUBLE CONVECTION OVEN, GAS
5	1	48" GRIDDLE, GAS
6	1	GRIDDLE STAND
7	1	6 BURNER RANGE, GAS (EXISTING)
8	4	HAND SINK
9	4	TRASH RECEPTACLE
10	1	WALK-IN COOLER
11	2	COOLER PALLET
12	1LT	WALK-IN COOLER SHELVING
13	1	WORK TABLE WITH SINK, 48" X 10'-0"
14	1	SIDE LOADING PAN RACK
15	1	MIXER STAND
16	1	MIXER
17	-	SPARE NO.
18	1	CEILING MOUNT POT RACK
19	1	FOOD PROCESSOR
20	-	SPARE NO.
21	1	BULLETIN BOARD - BY OWNER
22	1	WORK TABLE (30X84)
22.1	1	TABLE MOUNTED OVERSHELF, (16X84)
23	1	ICED TEA BREWER - BY OWNER
24	1	AIRPOT COFFEE MAKER - BY OWNER
25	1	REFRIGERATOR, PASS-THRU
26	1	CABINET, HEATED, PASS-THRU
27	1	WATER FILTER SYSTEM
28	1	ICE MAKER
29	1	ICE BIN
30	1	WORK TABLE (24X48)
30.1	1	WALL SHELF, (16X48)
31	1	WALK-IN FREEZER
32	1LT	WALK-IN FREEZER SHELVING
32.1	2	FREEZER DUNNAGE RACK
33	1	SINK MOUNTED POT RACK/SHELF
34	1	3 COMP'T. SINK
34.1	1	MOBILE POT & PAN RACK - BY OWNER
35	1	POT RACK, WALL MOUNT
36	1	CLEAN DISHTABLE
37	-	SPARE NO.
38	1	WAREWASHER, DOOR TYPE, HIGH TEMP
39	1	WAREWASHER HOOD
40	1	COLLECTOR, FOOD WASTE
41	1	SOILED DISHTABLE W/RACKING SHELF
42	1	TRASH RECEPTACLE
43	1	WORK TABLE (30X72)
43.1	1	WALL SHELF (16X72)
44	1	TABLE, HOT FOOD
45	1	BUFFET/CAFETERIA, COLD FOOD STATION
46	1	SERVING TABLE
47	1	PASS-THRU WINDOW SHELF
47.1	1	SOILED DISH LANDING SHELF
48	1	BEVERAGE COUNTER W/TRAY SHELF, 48" X 30"
49	1	ICE TRANSPORT CART
50	1	INSULATED BEVERAGE DISPENSER
51	6	AIRPOT
52	-	SPARE NO.
53	1	WORK TABLE (30X96)
53.1	1	15X60 S.S. WALL SHELF
54	1	30 GAL. TILTING SKILLET, GAS
55	1	40 QT. TILTING KETTLE, ELEC.
55.1	1	TILTING KETTLE STAND
56	1	EXHAUST HOOD SYSTEM
56.1	1	ANSUL SYSTEM
57	2	MOBILE WORK TABLE, 24" X 48"
58	1	GREASE TRAP (BY OTHERS)
59	8	SERVING CART (SMALLWARES)
60	1	HAND WASH COUNTER

MECHANICAL SCHEDULE

- 31A. 3/4" CW, S.O. 66", CONVECTION STEAMER, "TEE" TO "UNTREATED WATER CONNECTION AND CONNECT THRU WATER FILTER TO "TREATED WATER CONNECTION
38. FLOOR SINK, RUN INDIRECT 2" WASTE FROM STEAMER WITH 1 1/2" AIR GAP PER MFG'R'S INSTALL INSTRUCTIONS
- 4A. 1/2" NAT GAS, 88,000 BTU, S.D. TO 24" A.F.F., CONN. OVEN), IC TO INSTALL KEC PROVIDED GAS MANIFOLD, CONNECT OVEN WITH NSF APPROVED GAS HOSE WITH QUICK DISCONNECT
- 5A. 3/4" NAT. GAS, 108,000 BTU, S.D. 30" AFF, GRIDDLE, INTER-CONNECT WITH NSF APPROVED GAS HOSE WITH QUICK DISCONNECT
- 7A. 3/4" NAT. GAS, 215,000 BTU, S.D. 30" AFF, RANGE, INTER-CONNECT WITH NSF APPROVED GAS HOSE WITH QUICK DISCONNECT
- 8A. 1/2" HW, S.O. 18" AFF, HAND SINK (4 PLACES)
- 8B. 1/2" CW, S.O. 18" AFF, HAND SINK (4 PLACES)
- 8C. 1/2" DRAIN, S.O. 18" A.F.F., HAND SINK (4 PLACES)
- 13A. 1/2" HW, S.U. 8" A.F.F., SINK FAUCET
- 13B. 1/2" CW, S.U. 8" AFF, SINK FAUCET
- 13C. FLOOR SINK W/HALF GRATE, RUN 1 1/2" INDIRECT WASTE FROM PREP SINK WITH 1 1/2" AIR GAP
- 24A. 1/2" CW, S.O. 48" AFF, COFFEE BREWER, TEE TO TEA BREWER AND REDUCE AS REQ'D INSTALL INLINE WATER FILTER IF SUPPLIED WITH EQUIPMENT
- 27A. 3/4" CW, S.O. 72" A.F.F., WATER FILTER, INTER-CONNECT FROM FILTER TO ICE MAKER AND REDUCE AS REQ'D
- 27B. FLOOR SINK W/HALF GRATE, RUN 1" INDIRECT WASTES FROM ICE MACHINE (2) AND ICE BIN (1), WITH 1 1/2" AIR GAPS (ALL DRAINS MUST BE RUN SEPARATELY ... NO MANIFOLDING
- 31A. FLOOR SINK, RUN 1" INDIRECT WASTE FROM FREEZER EVAP COIL W/ 1 1/2" AIR GAP
- 34A. INSULATE AND WRAP FREEZER DRAIN WITH HEAT TAPE WHERE EXPOSED IN FREEZER
- 41A. 1/2" HW, S.O. 18" A.F.F., SCULLERY SINK FAUCET (TEE TO 2ND FAUCET IF REQ'D)
- 43A. 1/2" CW, S.O. 18" A.F.F., SCULLERY SINK FAUCET (TEE TO 2ND FAUCET IF REQ'D)
- 34C. FLOOR SINK W/HALF GRATE, MANIFOLD THREE SINK COMP'TS RUN 2" INDIRECT WASTE TO FLOOR SINK ... ALSO RUN 1" INDIRECT WASTE FROM COOLER EVAP COIL (ITEM #10) ... ALL WITH 1 1/2" AIR GAPS
- 38A. 3/4" HW (140 DEG. MIN), S.O. 65", DISH WASHER
- 40A. 1/2" HW, S.O. 18" A.F.F., SCRAP COLLECTOR
- 40B. 1/2" CW, S.O. 18" A.F.F., SCRAP COLLECTOR
- 40C. FLOOR SINK W/HALF GRATE, RUN 2" INDIRECT WASTE FROM SCRAP COLLECTOR AND DISHWASHER ... BOTH WITH 1 1/2" AIR GAPS
- 44A. FLOOR SINK W/HALF GRATE, RUN 1" INDIRECT WASTE FROM ICE BIN AND HOT FOOD TABLE ... BOTH WITH 1 1/2" AIR GAPS
- 48A. FLOOR SINK WITH HALF GRATE, RUN INDIRECT WASTE FROM DRAIN TROUGH WITH 1 1/2" AIR GAP
- 49A. 1/2" CW, S.O. 48" A.F.F., ICE & WATER DISPENSER, REDUCE AS REQ'D
- 54A. 1/2" CW, S.O. 24" A.F.F., BRAISING PAN FILL FAUCET
- 54B. 1/2" NAT GAS, 104,000 BTU, BRAISING PAN
- 55A. 1/2" CW, S.O. 24" A.F.F., KETTLE FILL FAUCET
- 55B. FLOOR SINK W/HALF GRATE, RUN 1 1/2" INDIRECT WASTE FROM KETTLE STAND W/ 1 1/2" AIR GAP
- 60A. 1/2" HW, S.O. 18" A.F.F., SINK FAUCET (2 PLACES)
- 60B. 1/2" CW, S.O. 18" A.F.F., SINK FAUCET (2 PLACES)
- 60C. FLOOR SINK W/HALF GRATE, RUN 1 1/2" INDIRECT WASTE FROM SINK, 1" FROM BEVERAGE TROUGH, AND FROM ICE DISPENSER ... ALL WITH 1 1/2" AIR GAPS (2 PLACES)



- PLAN NOTES:
- 1 2" GAS UP TO MECHANICAL MEZZANINE. FURNISH AND INSTALL AUTOMATIC/SOLENOID GAS SHUT-OFF VALVE.
- 2 4" SANITARY WASTE DOWN TO BASEMENT LEVEL FOR CONNECTION TO EXISTING. EXTEND COMBO VENT UP AND TRANSITION TO 2" VENT UP IN WALL.
- 3 2" COLD WATER UP FROM BASEMENT LEVEL. CONNECT TO EXISTING AND INSTALL ISOLATION VALVE.
- 4 2" COLD WATER, 1-1/4" HOT WATER, 3/4" RHW UP TO MEZZANINE ABOVE.
- 5 3" VENT UP TO 4" VTR.
- 6 FURNISH AND INSTALL 75 GALLONS RECESSED FLOOR MOUNTED GREASE INTERCEPTOR TO RECEIVE DISCHARGE FROM 3-COMPARTMENT SINK. DIRECT EXISTING PIPE TO SANITARY BELOW GRADE. EXTEND VENT UP IN WALL PER MANUFACTURERS RECOMMENDATIONS.
- 7 FLOOR SINK TO RECEIVE INDIRECT WASTE FROM 3-COMPARTMENT SINK.
- 8 2" VENT DOWN IN WALL TO GREASE INTERCEPTOR VENT CONNECTION AT UNIT DISCHARGE.
- 9 EXISTING 4" SAN DOWN AT COLUMN, COORDINATE CONNECTIONS IN FIELD.
- 10 REPLACE EXISTING 3" SAN WITH 4" SAN. SECURE WITH PROPER SLOPE ADJACENT TO BASEMENT WALL.
- 11 1-1/2" VENT UP IN CORNER OF ROOM.
- 12 ROUTE SANITARY AGAINST WALL CONNECT TO EXISTING SANITARY PIPE ROUTED DOWN THRU FLOOR.
- 13 2" VENT UP IN WALL.

ENLARGED KITCHEN PLAN - PLUMBING
SCALE: 1/4" = 1'-0"

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Hope Faith Ministries - Warehouse Renovation

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HEALTH DEPT. COMMENTS 07-27-10
CITY COMMENTS 08-06-10
SAN REVISIONS 09-14-10

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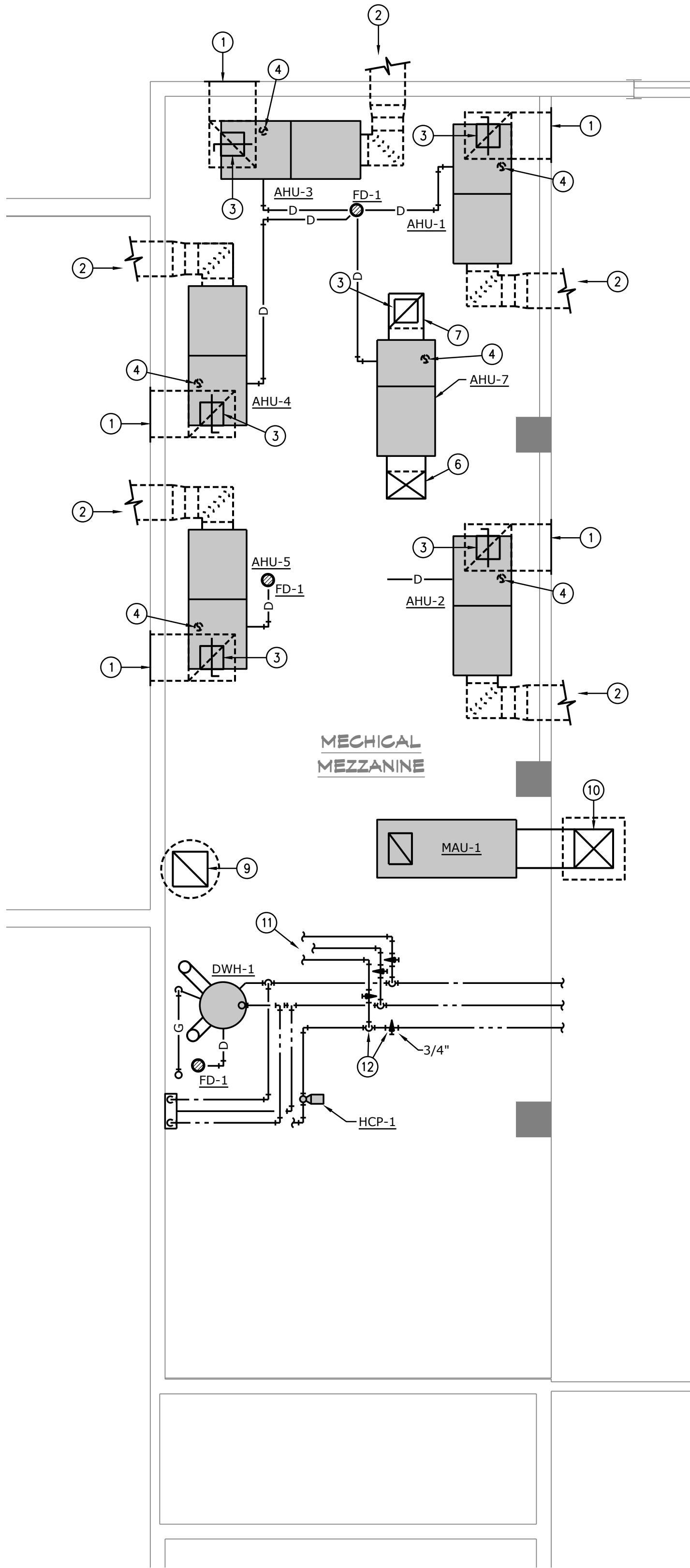
SHEET CONTENTS
ENLARGED KITCHEN PLAN -
HVAC

PROJECT NUMBER
0908.02
SHEET NUMBER
M2.1

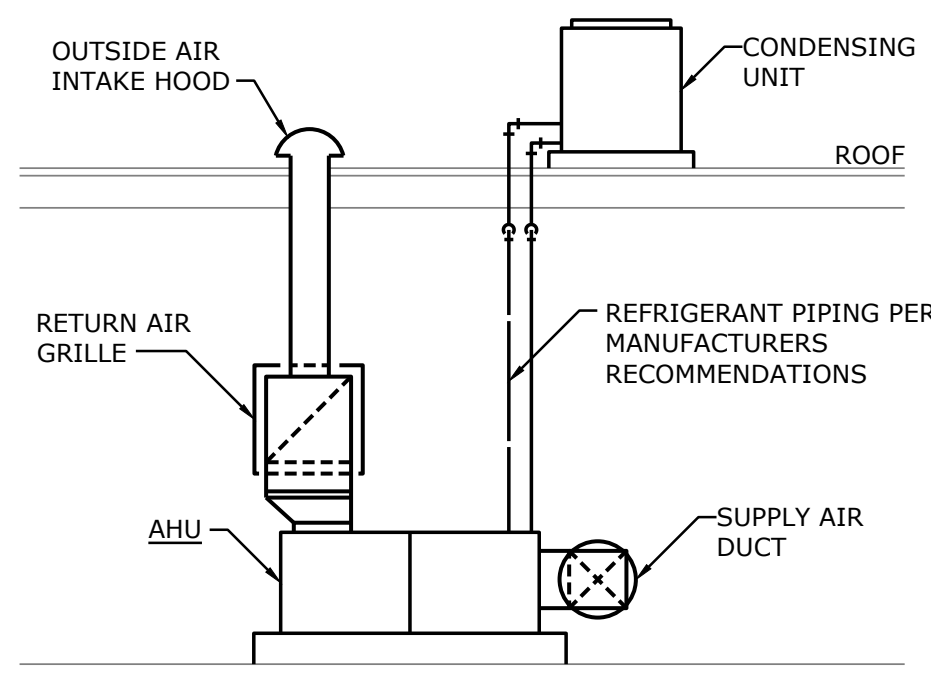
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PROJECT NAME: HOPE FAITH MINISTRIES - WAREHOUSE RENOVATION
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PLOTTED BY: JUNE 25, 2010
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SCALE: 1/4" = 1'-0"



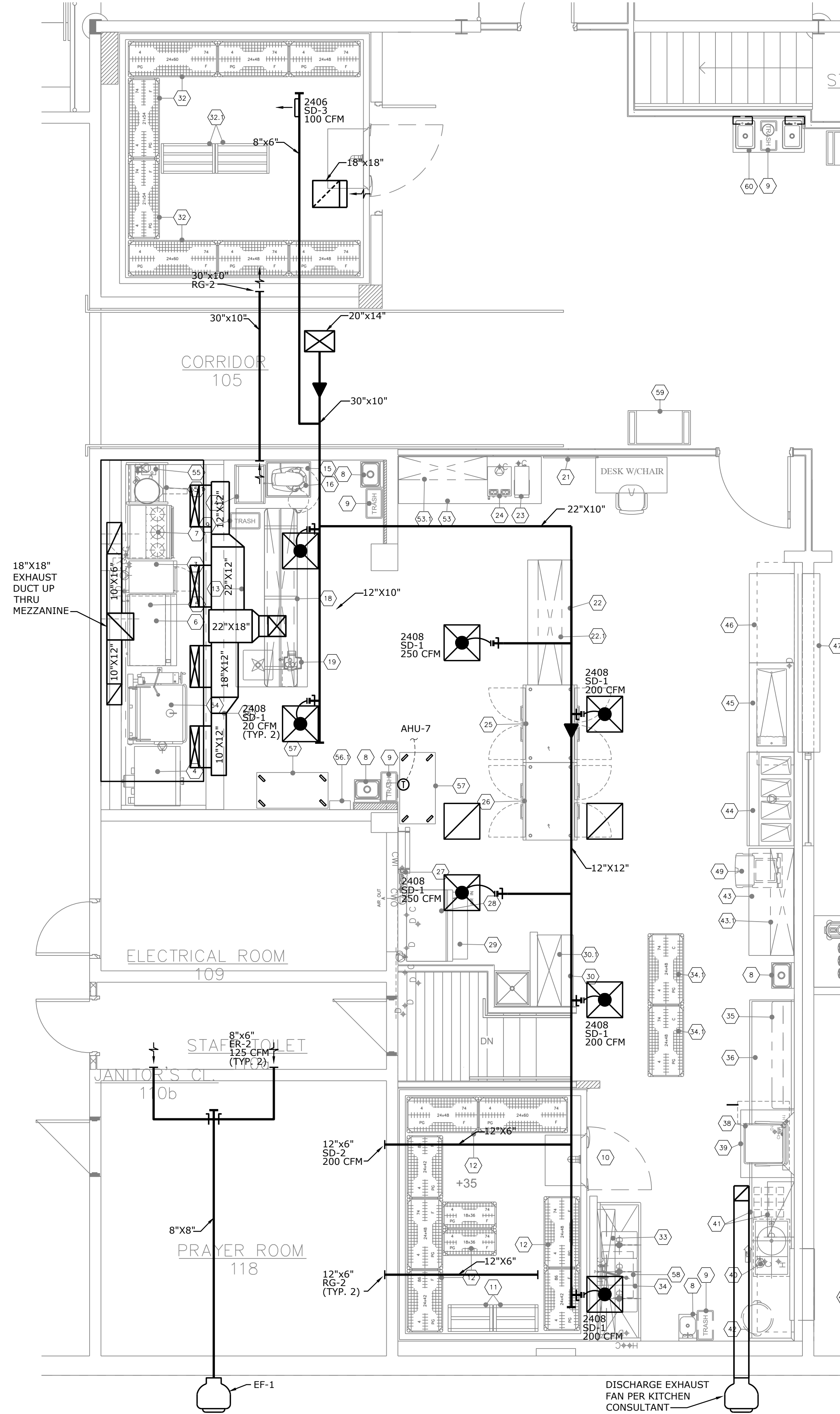
MECHANICAL ROOM MEZZANINE - HVAC
SCALE: 1/4" = 1'-0"



MECHANICAL AHU/CU SECTION - HVAC
SCALE: 1/4" = 1'-0"

- PLAN NOTES:
- 24"x24" RETURN FROM SPACE.
 - 18"Ø SUPPLY TO SPACE.
 - 12"x12" OSA DUCTS UP TO INTAKE ON ROOF, CONNECT TO TOP OF RA PLENUM.
 - 4" FLUE UP TO ROOF, EXTEND 24" ABOVE INTAKE.
 - 14"x20" RA UP FROM BELOW MEZZANINE. CONNECT TO BOTTOM OF PLENUM.
 - 20"x14" SUPPLY AIR FROM UNIT DOWN THRU MEZZANINE FLOOR.
 - 18"x18" RETURN FROM SPACE.
 - 16"Ø SUPPLY TO SPACE.
 - 18"x18" EXHAUST DUCT UP TO EXHAUST FAN ON ROOF.
 - 20"x20" OSA DUCT UP TO LOUVERED PENTHOUSE ON ROOF ABOVE.
 - TO RESTROOM.
 - FURNISH AND INSTALL CIRCUIT SETTERS TO BALANCE RECIRCULATION.

EQUIPMENT SCHEDULE		
ITEM NO	QTY	EQUIPMENT CATEGORY
1	1LT	DRY STORAGE SHELVING - BY OWNER/NOT SHOW
2	1	DRY STORAGE PALLET - BY OWNER/NOT SHOWN
3	1	CONVECTION STEAMER, ELEC.
4	1	DOUBLE CONVECTION OVEN, GAS
5	1	48" GRIDDLE, GAS
6	1	GRIDDLE STAND
7	1	6 BURNER RANGE, GAS (EXISTING)
8	4	HAND SINK
9	4	TRASH RECEPTACLE
10	1	WALK-IN COOLER
11	2	COOLER PALLET
12	1LT	WALK-IN COOLER SHELVING
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15	1	MIXER STAND
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19	1	FOOD PROCESSOR
20	-	SPARE NO.
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22	1	WORK TABLE (30X84)
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23	1	ICED TEA BREWER - BY OWNER
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25	1	REFRIGERATOR, PASS-THRU
26	1	CABINET, HEATED, PASS-THRU
27	1	WATER FILTER SYSTEM
28	1	ICE MAKER
29	1	ICE BIN
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32	1LT	WALK-IN FREEZER SHELVING
32.1	2	FREEZER DUNNAGE RACK
33	1	SINK MOUNTED POT RACK/SHELF
34	1	3 COMPT. SINK
34.1	1	MOBILE POT & PAN RACK - BY OWNER
35	1	POT RACK, WALL MOUNT
36	1	CLEAN DISHTABLE
37	-	SPARE NO.
38	1	WAREWASHER, DOOR TYPE, HIGH TEMP
39	1	WAREWASHER HOOD
40	1	COLLECTOR, FOOD WASTE
41	1	SOILED DISHTABLE W/RACKING SHELF
42	1	TRASH RECEPTACLE
43	1	WORK TABLE (30X72)
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45	1	BUFFET/CAFETERIA, COLD FOOD STATION
46	1	SERVING TABLE
47	1	PASS-THRU WINDOW SHELF
47.1	1	SOILED DISH LANDING SHELF
48	1	BEVERAGE COUNTER W/TRAY SHELF, 48" X 30"
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50	1	INSULATED BEVERAGE DISPENSER
51	6	AIRPOT
52	-	SPARE NO.
53	1	WORK TABLE (30X96)
53.1	1	15X60 S.S. WALL SHELF
54	1	30 GAL. TILTING SKILLET, GAS
55	1	40 QT. TILTING KETTLE, ELEC.
55.1	1	TILTING KETTLE STAND
56	1	EXHAUST HOOD SYSTEM
56.1	1	ANSUL SYSTEM
57	2	MOBILE WORK TABLE, 24" X 48"



ENLARGED KITCHEN PLAN - HVAC
SCALE: 1/4" = 1'-0"

- GENERAL NOTES:
- ALL RA GRILLES 22"x22" RG-1 UNLESS OTHERWISE NOTED.
 - ALL GREASE EXHAUST TO BE WELDED BLACK STEEL WRAPPED WITH 2 HR FIRE RATED INSULATION.
 - ALL DISHWASHER EXHAUST TO BE ALUMINUM.

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Date
June 25, 2010

Revised Date

SHEET CONTENTS
• ENLARGED KITCHEN PLAN
• AND MECHANICAL ROOM
• MEZZANINE - HVAC

PROJECT NUMBER

0908.02

SHEET NUMBER

M2.2

PERMIT DOCUMENTS



PLAN NOTES:

- 1 EXISTING LIGHTING TO REMAIN AND BE REUSED. RECIRCUIT AS SHOWN OR AS REQUIRED.
- 2 EXIT/EMERGENCY FIXTURES SHALL BE CIRCUITED UNSWITCHED TO ADJACENT LIGHTING CIRCUIT.

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CITY COMMENTS

08-06-10

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SHEET CONTENTS
● MAIN LEVEL FLOOR PLAN -
● LIGHTING

PROJECT NUMBER

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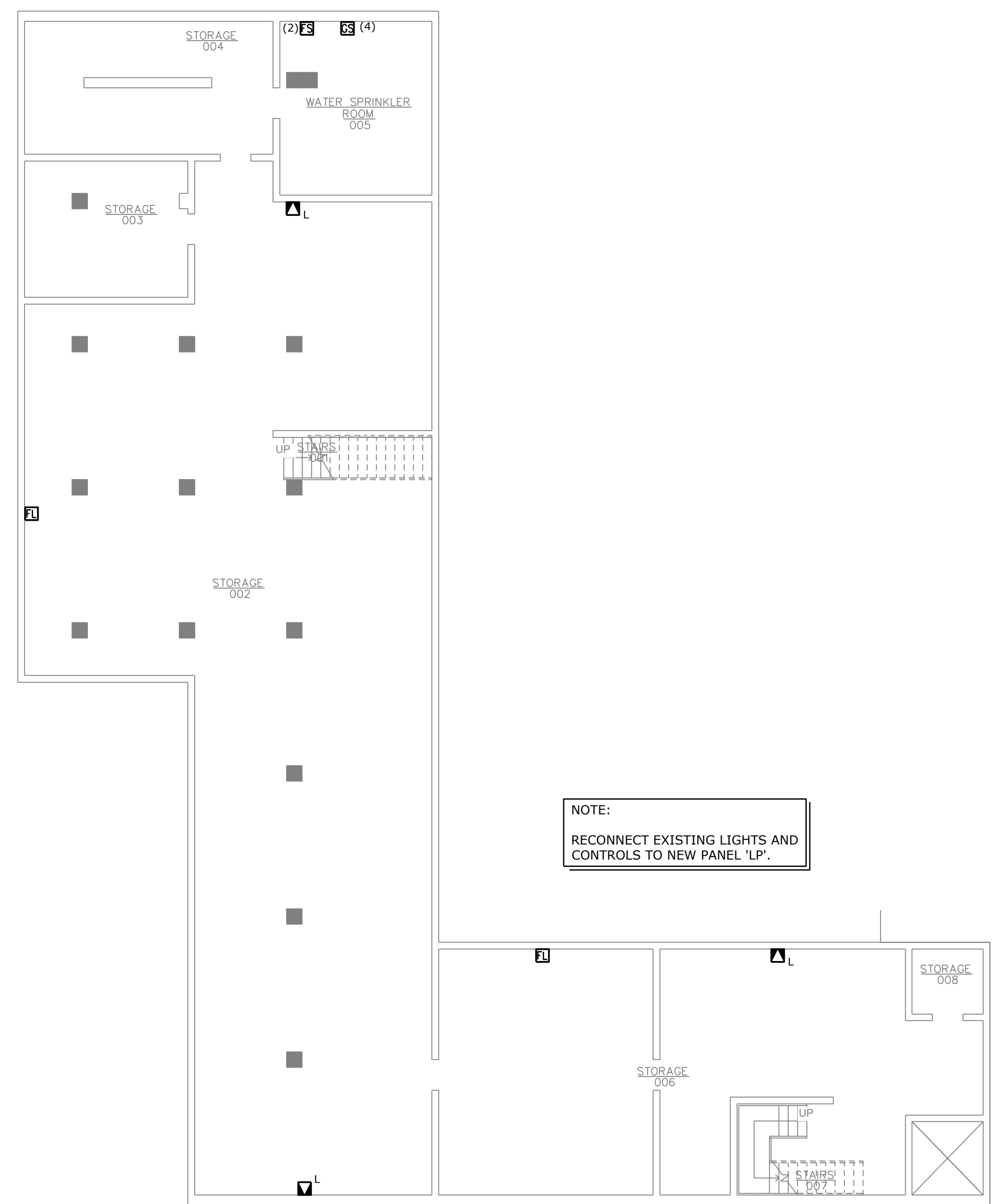
MAIN LEVEL FLOOR PLAN - LIGHTING

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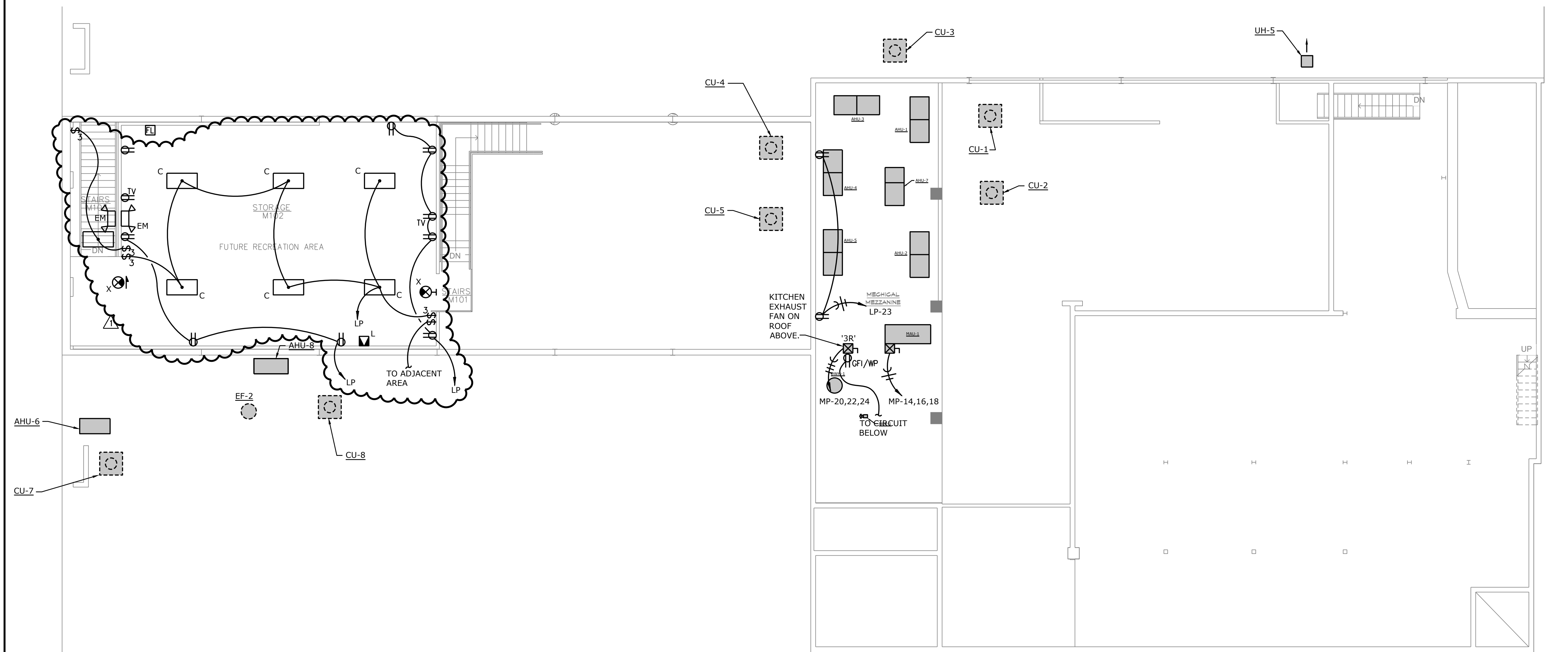
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HOPE FAITH MINISTRIES - WAREHOUSE RENOVATION
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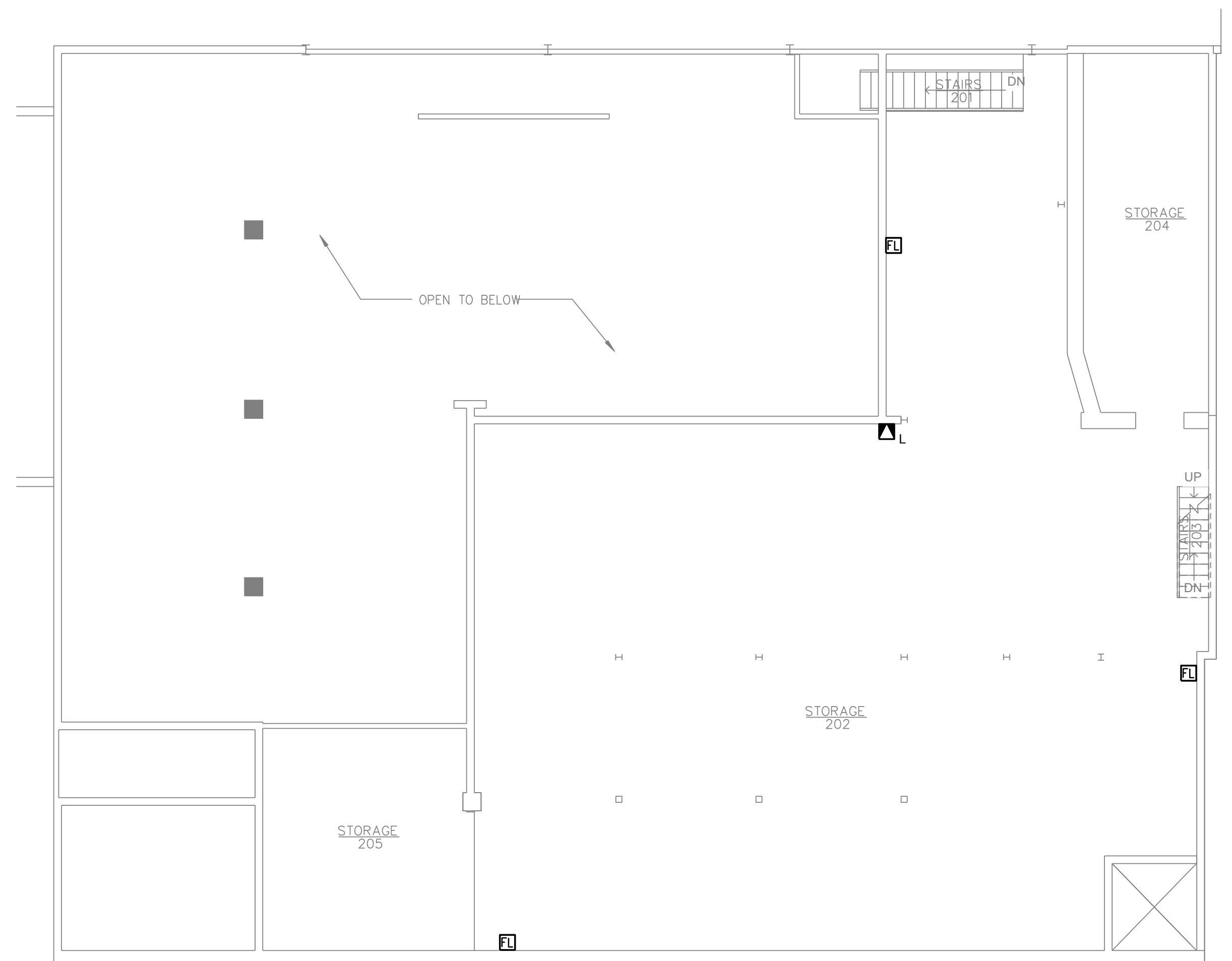
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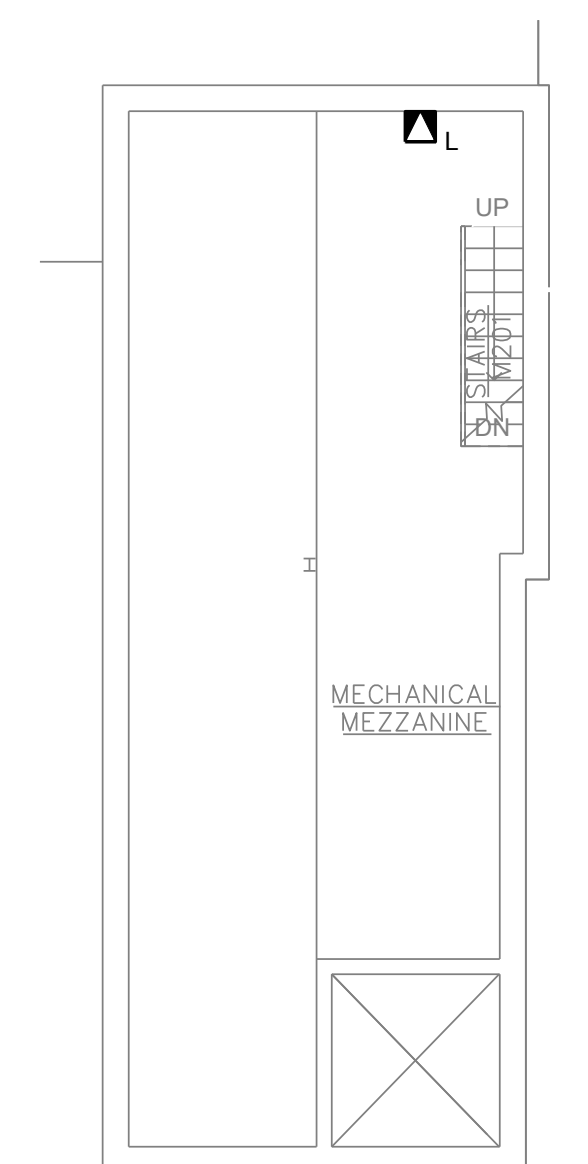
 **BASEMENT FLOOR PLAN - ELECTRICAL**
SCALE: 1/8" = 1'-0"



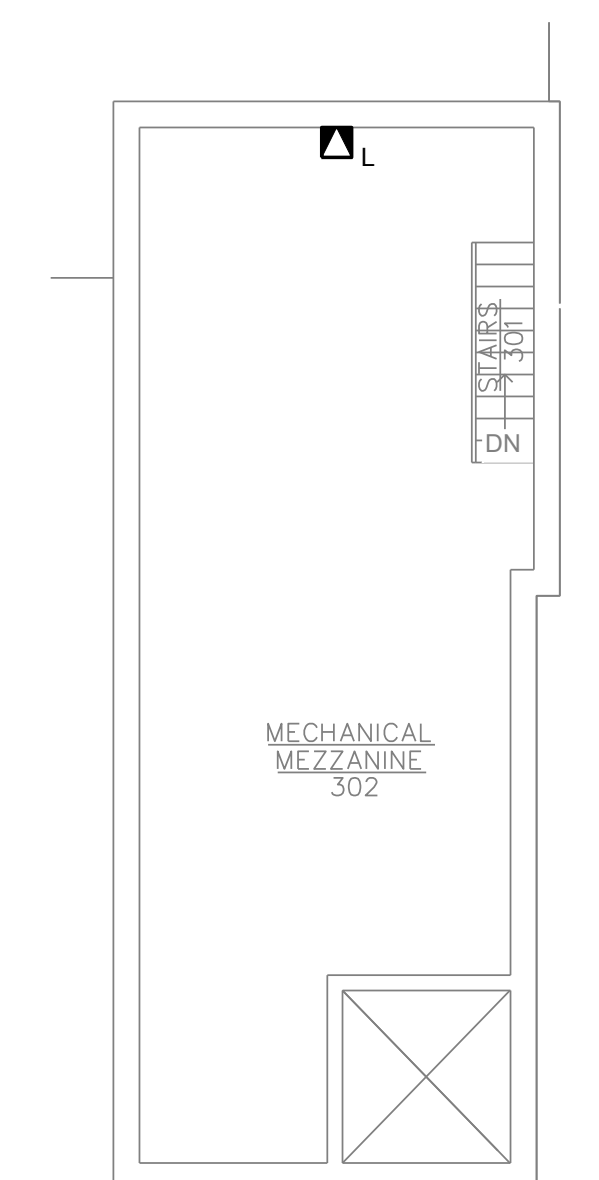
 **MAIN MEZZANINE FLOOR PLAN - ELECTRICAL**
SCALE: 1/8" = 1'-0"



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



 SECOND MEZZANINE FLOOR PLAN - ELECTRICAL
SCALE: 1/8" = 1'-0"



 **THIRD FLOOR PLAN - ELECTRICAL**
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SHEET CONTENTS
● FLOOR PLANS - ELECTRICAL

PROJECT NUMBER
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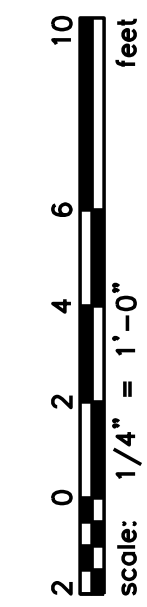
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E1.3

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HOPE FAITH MINISTRIES - WAREHOUSE RENOVATION
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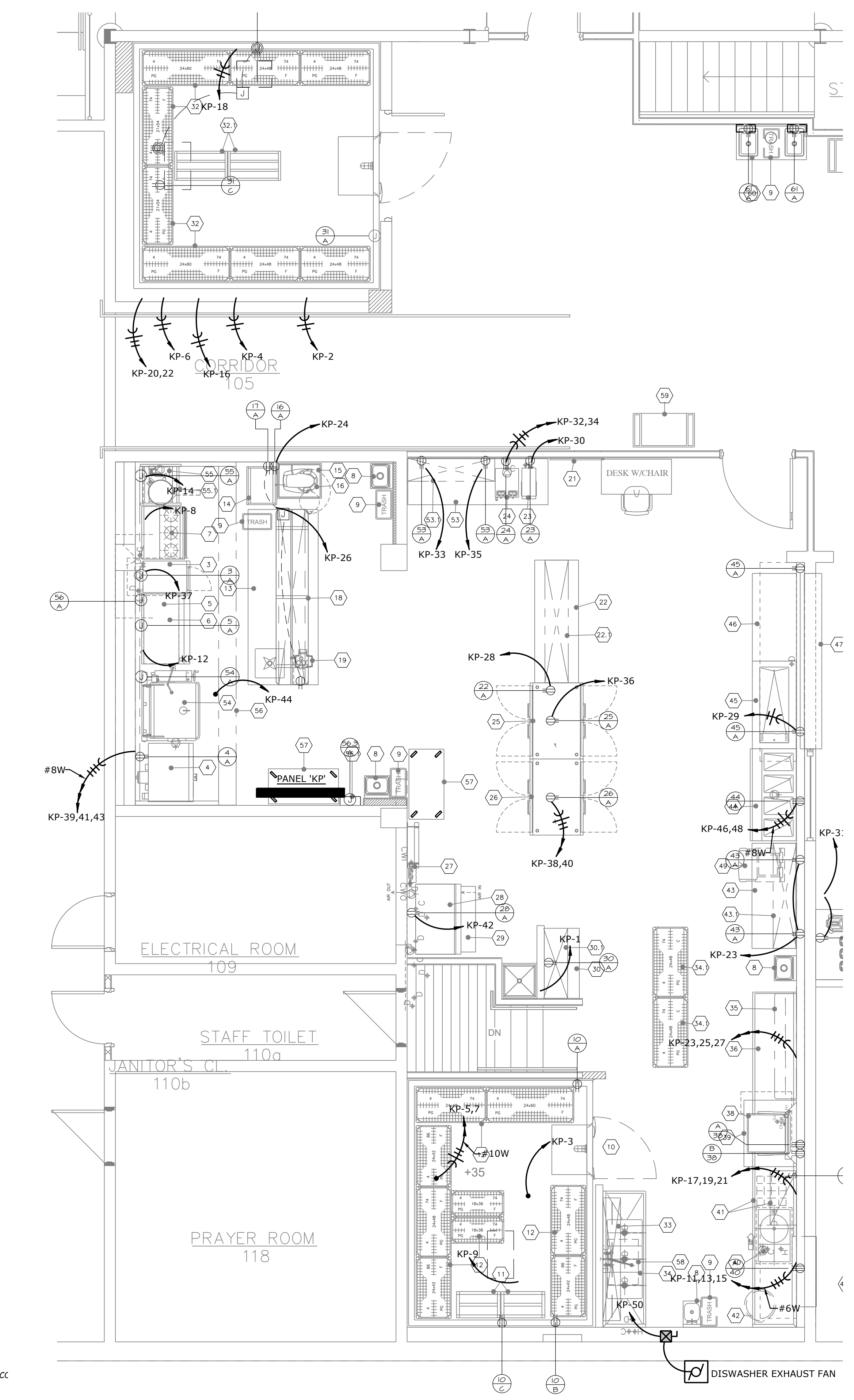


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23	1	ICED TEA BREWER - BY OWNER
24	1	AIRPOT COFFEE MAKER - BY OWNER
25	1	REFRIGERATOR, PASS-THRU
26	1	CABINET, HEATED, PASS-THRU
27	1	WATER FILTER SYSTEM
28	1	ICE MAKER
29	1	ICE BIN
30	1	WORK TABLE (24X48)
30.1	1	WALL SHELF, (16X48)
31	1	WALK-IN FREEZER
32	1LT	WALK-IN FREEZER SHELVING
32.1	2	FREEZER DUNNAGE RACK
33	1	SINK MOUNTED POT RACK/SHELF
34	1	3 COMPT. SINK
34.1	1	MOBILE POT & PAN RACK - BY OWNER
35	1	POT RACK, WALL MOUNT
36	1	CLEAN DISHTABLE
37	-	SPARE NO.
38	1	WAREWASHER, DOOR TYPE, HIGH TEMP
39	1	WAREWASHER HOOD
40	1	COLLECTOR, FOOD WASTE
41	1	SOILED DISHTABLE W/RACKING SHELF
42	1	TRASH RECEPTACLE
43	1	WORK TABLE (30X72)
43.1	1	WALL SHELF (16X72)
44	1	TABLE, HOT FOOD
45	1	BUFFET/CAFETERIA, COLD FOOD STATION
46	1	SERVING TABLE
47	1	PASS-THRU WINDOW SHELF
47.1	1	SOILED DISH LANDING SHELF
48	1	BEVERAGE COUNTER W/TRAY SHELF, 48" X 30"
49	1	ICE TRANSPORT CART
50	1	INSULATED BEVERAGE DISPENSER
51	6	AIRPOT
52	-	SPARE NO.
53	1	WORK TABLE (30X96)
53.1	1	15X60 S.S. WALL SHELF
54	1	30 GAL. TILTING SKILLET, GAS
55	1	40 QT. TILTING KETTLE, ELEC.
55.1	1	TILTING KETTLE STAND
56	1	EXHAUST HOOD SYSTEM
56.1	1	ANSUL SYSTEM
57	2	MOBILE WORK TABLE, 24" X 48"
58	1	GREASE TRAP (BY OTHERS)
59	8	SERVING CART (SMALLWARES)
60	1	HAND WASH COUNTER

ELECTRICAL SCHEDULE		
3A.	208/60/3, 44.0 A., J.B. 36" A.F.F., CONVECTION STEAMER	
4A.	120/60/, 10 A., D.O. 24" AND 36" A.F.F., CONVECTION OVEN	
5A.	120/60/1, 5 A., D.O. 24" A.F.F., GRIDDLE CONTROLS (FUTURE)	
10A.	120/60/1, 10 A., J.B. ABOVE CEILING, WALK-IN COOLER LIGHTS	
10B.	120/60/1, 14.2 A., J.B. ABOVE CEILING, WALK-IN COOLER EVAP. COIL	
10C.	208/60/1, 9.8 A., J.B. ON ROOF, WALK-IN COOLER CONDENSING UNIT	
16A.	120/60/1, 15 A., D.O. 48" A.F.F., MIXER	
17A.	120/60/1, 20 A. CIRCUIT, D.O. 24" A.F.F., WORK TABLE OUTLET	
22A.	120/60/1, 20 A. CIRCUIT, DUPLEX PENDANT OUTLET HUNG 90" A.F.F., WORK TABLE OUTLETS	
23A.	120/60/1, 20 A. CIRCUIT, D.O. 48" A.F.F., TEA BREWER - BY OWNER - VERIFY	
24A.	208/60/1, 20 A. CIRCUIT, S.R. 48" A.F.F., COFFEE BREWER - BY OWNER - VERIFY	
25A.	120/60/1, 9.1 A., DUPLEX PENDANT OUTLET HUNG 90" A.F.F., PASS-THRU REFRIGERATOR	
26A.	208/60/1, 13 A., DUPLEX PENDANT OUTLET HUNG 90" A.F.F., PASS-THRU HEATED CABINET	
28A.	208/60/1, 20 A. CIRCUIT, J.B. 88" A.F.F., ICE MAKER	
30A.	120/60/1, 20 A. CIRCUIT, D.O. 48" A.F.F., CONVENIENCE OUTLET	
31A.	120/60/1, 10 A., J.B. 108" A.F.F., WALK-IN FREEZER LIGHTS AND DOOR HEATER STRIP	
31B.	208/60/1, 21.5 A., J.B. ON ROOF, WALK-IN FREEZER REFRIG. SYSTEM	
31C.	120/60/1, 10 A., WEATHER PROOF D.O. INSIDE FREEZER, DRAIN HEAT TAPE	
38A.	208/60/3, 24.5 A., J.B. 15" A.F.F., DISHWASHER	
38B.	208/60/3, 20.4 A., J.B. 15" A.F.F., DISHWASHER BOOSTER HEATER	
39A.	120/60/1, 4 A., WEATHER PROOF J.B. AT ROOF, EXH. FAN, INTER-WIRE TO SWITCH ON WALL	
40A.	208/60/3, 3.2 A., J.B. 12" A.F.F., FOOD WASTE COLLECTOR	
43A.	120/60/1, 20 A. CIRCUIT, D.O. 48" A.F.F., WORK TABLE CONVENIENCE OUTLETS (2 PLACES)	
44A.	208/60/1, 16.4 A., S.R. 24" A.F.F., HOT FOOD TABLE, NEMA 6-30R, EC TO PROVIDE & INSTALL CC	
45A.	120/60/1, 20 A., D.O. 48" A.F.F., CONVENIENCE OUTLET	
49A.	120/60/1, 15.4 A., D.O. 12" A.F.F., ICE DISPENSER	
49A.	120/60/1, 15.4 A., D.O. 12" A.F.F., ICE DISPENSER	
52A.	120/60/1, 10 A., D.O. 48" A.F.F., BEVERAGE COUNTER	
53A.	120/60/1, 20 A. CIRCUIT, D.O. 48" A.F.F., WORK TABLE CONVENIENCE OUTLETS (2 PLACES)	
54A.	120/60/1, 5 A., D.O. 24" A.F.F., BRAISING PAN CONTROLS	
55A.	208/60/3, 30.0 A., J.B. 24" A.F.F., TILTING KETTLE	
56A.	120/60/1, 10 A., J.B. 108" A.F.F., EXH. HOOD LIGHTS	
56.1A.	(SEE HOOD SHOP DWGS FOR ADDITIONAL DETAILS)	
56.1A.	208/60/3, 6.0 A., WEATHER PROOF DISCONNECT AT ROOF, EXH. FAN	
56.2A.	120-208/60/3 (4 WIRES), 6.0 A., WEATHER PROOF DISCONNECT AT ROOF, MAKEUP FAN	
56.3A.	(SEE HOOD SHOP DWGS FOR ADDITIONAL DETAILS) - NOT SHOWN, VERIFY LOCATION W/AI	
56.3A.	120/60/1, 20 A. CIRCUIT, 108" A.F.F., FIRE SUPPRESSION CIRCUIT	
61A.	(SEE HOOD SHOP DWGS FOR ADDITIONAL DETAILS), VERIFY LOCATION WITH FIRE MARSHAL	
61A.	120/60/1, 17.0 A., J.B. @ 60" A.F.F., HAND DRYER, (VERY ROUGH-IN WITH MFRGR CUT SHEET), (2 PL	



ENLARGED KITCHEN PLAN - POWER
SCALE: 1/4" = 1'-0"

PANEL		KP		AIC:		10,000 A		MAIN LUGS ONLY	
MAIN BUS AMPS:		200 A		SECTIONS:		2 - 30 SPACE		EQUIPMENT GROUND BUS	
MAIN BREAKER:		N/A		MOUNTING:		SURFACE			
VOLTAGE:		208Y/120 V		LOCATION:					
PHASES/WIRES:		3 PH / 4 W							
CIRCUIT DESCRIPTION		POLES	AMPS	CKT NO	CKT NO	AMPS	POLES	CIRCUIT DESCRIPTION	
RECEPTACLES	1	20	1	2	20	1		CHEST FREEZER	3
FREEZER	1	20	3	4	20	1		CHEST FREEZER	3
FREEZER	2	30	5	6	20	1		CHEST FREEZER	3
FREEZER	1	20	7	8	20	1		SHUNT TRIP	
FREEZER	1	20	9	10				SHUNT TRIP	
BOOSTER HEATER	3	50	11	12	20	1		GRIDDLE	
			13	14	20	1		HOOD	
			15	16	20	1		COOLER LTS	
			17	18	20	1		COOLER EVAP.	
			19	20	20	2		COOLER COND. UNIT	
			21	22					
			23	24	20	1		MIXER	
			25	26	20	1		RECEPTACLE	
			27	28	20	1		RECEPTACLE	
			29	30	20	1		TEA BREWER	
			31	32	20	2		COFFEE	
			33	34					
			35	36	20	1		REFRIG	
			37	38	20	2		HEATED CABINET	
			39	40					
			41	42	20	1		ICE MAKER	
			43	44	20	1		HOOD FIRE SUPPRESSION	
			45	46	40	2		HOT FOOD TABLE	
			47	48					
			49	50	20	1		DISHWASHER EX. FAN	
			51	52					
			53	54					
			55	56					
			57	58					
			59	60					

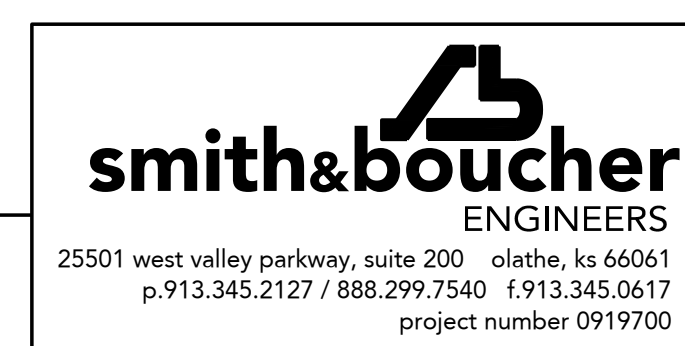
- PLAN NOTES:
1. ALL RECEPTACLES IN KITCHEN A GFCI.
 2. VERIFY EXACT RECEPTACLE TYPE WITH EQUIPMENT FURNISHED.
 3. VERIFY WITH OWNER LOCATION OF EQUIPMENT.

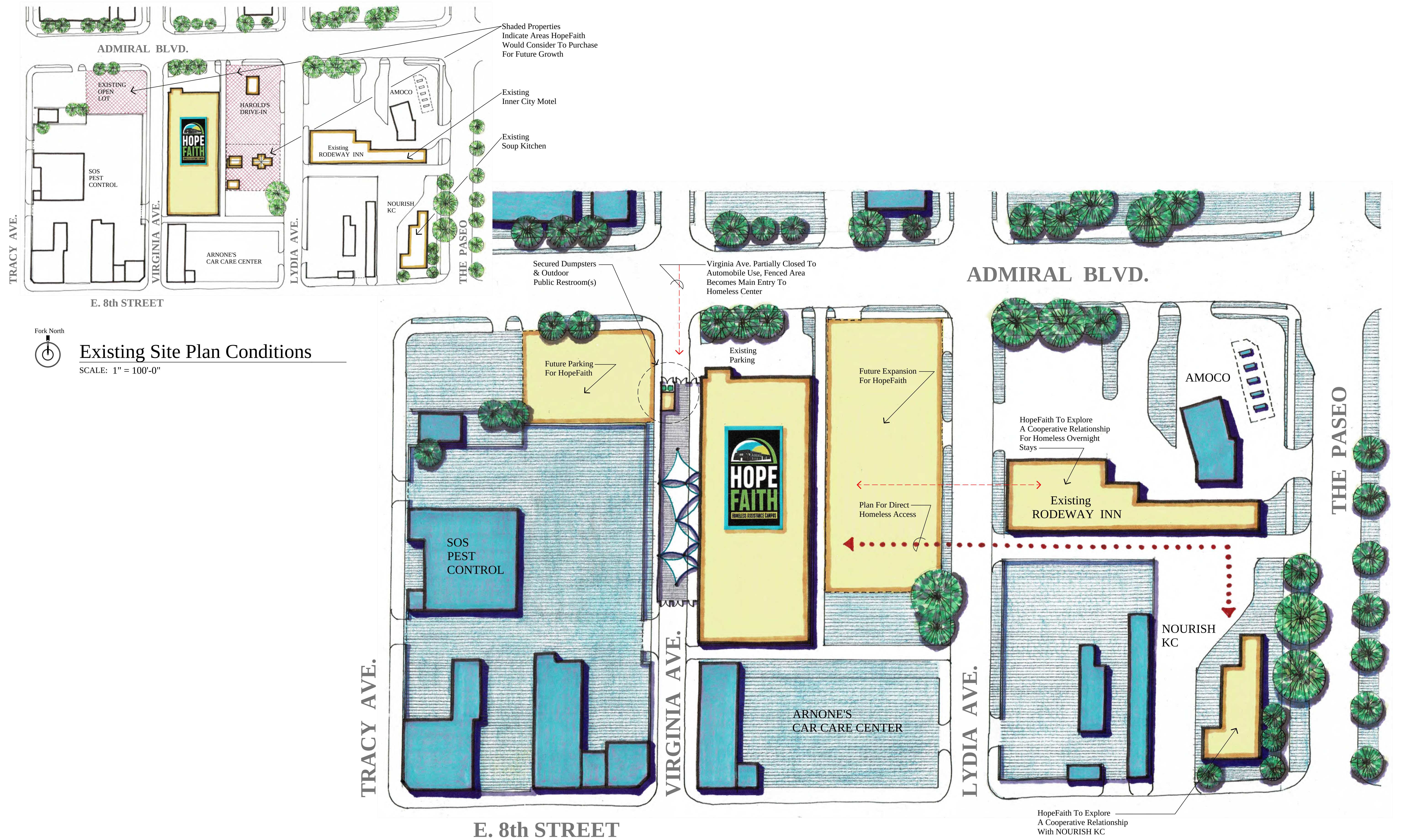


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P 785.266.5373

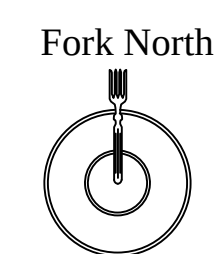
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OVERLAND PARK, KS 66210
P 913.663.5373

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Homeless Assistance Campus
705 Virginia Avenue
Kansas City, Missouri 64106



Future Site Plan Considerations

SCALE: 1" = 40'-0"

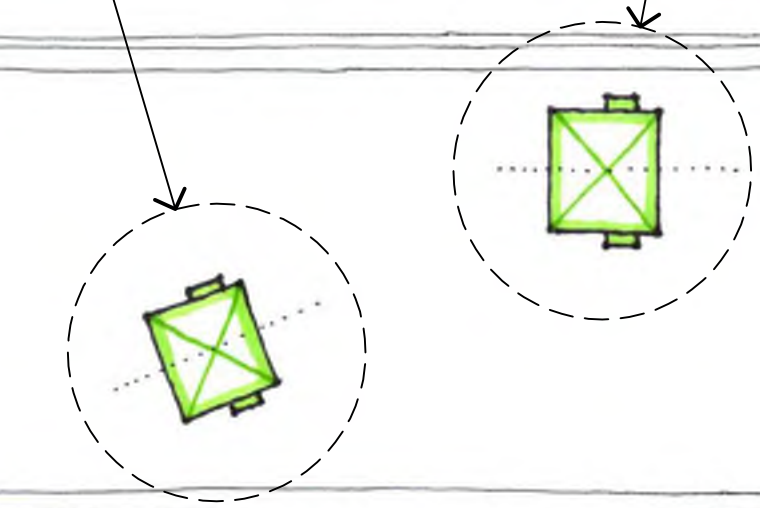


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Studio B
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Overland Park, Kansas 66212
913-341-5053
March 2023

Existing
Life Outside
Hope Faith



Existing
Trash Dumpsters



VIRGINIA AVE.

Security
Check Point
"Charlie"

Guest
Entry & Exit

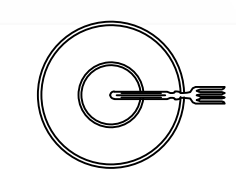
Public
Entry

ALLEYWAY

PARKING

ADMIRAL BLVD.

ALLEYWAY



Fork North

Floor Plan: Existing Conditions

SCALE: $\frac{3}{32}$ " = 1'-0"



HOPE FAITH
Homeless Assistance Campus

705 Virginia Avenue
Kansas City, Missouri 64106

Existing
Dining Room
Conditions



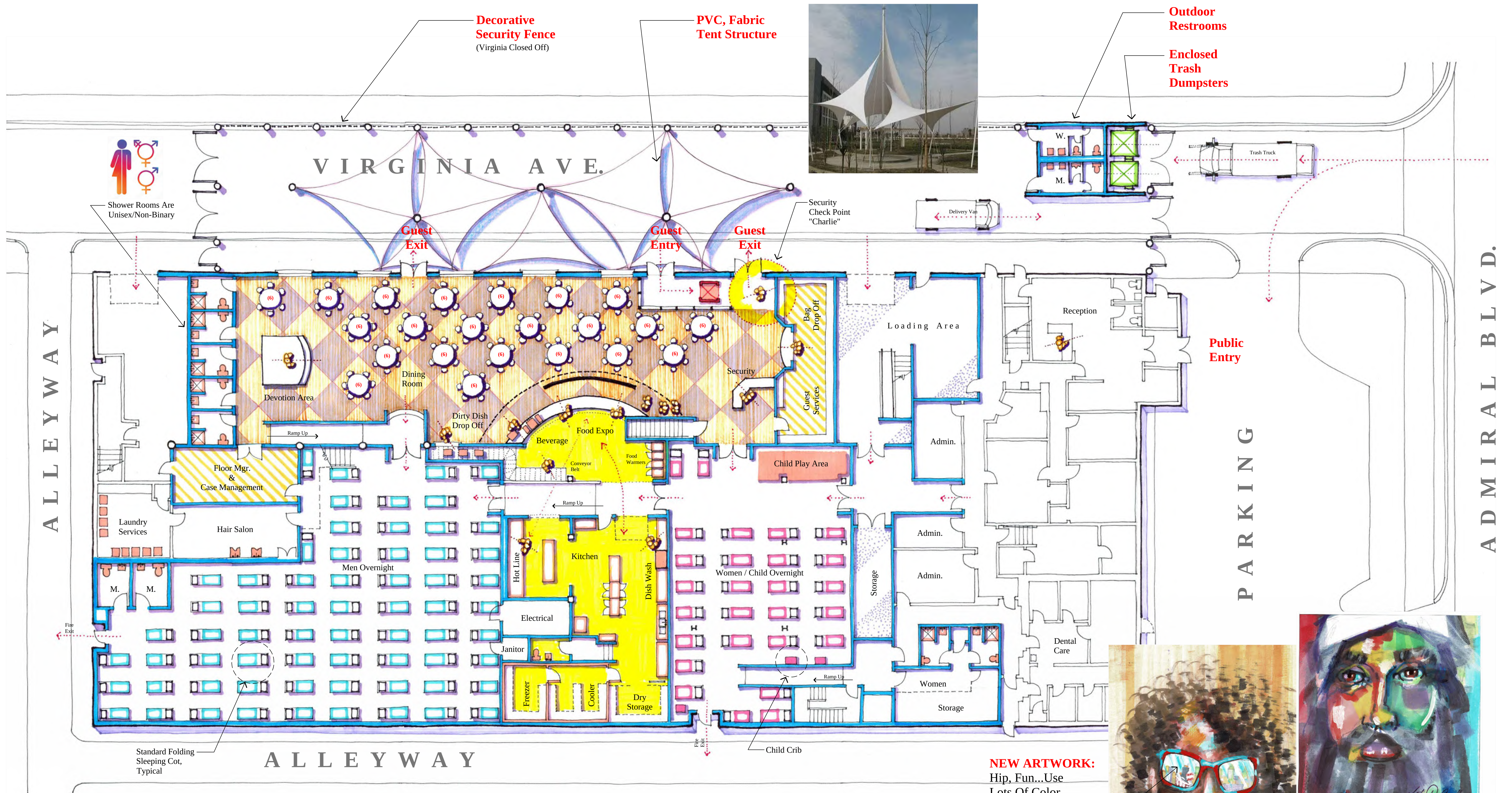
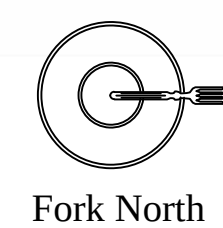
The Need
Encompasses
All Generations



MDC Architecture, Inc.
Studio B

9701 Russell Street
Overland Park, Kansas 66212
913-341-5053

March 2023



Floor Plan: Proposed Concept

Fork North

SCALE: $\frac{3}{32}" = 1'-0"$



HOPE FAITH
Homeless Assistance Campus

705 Virginia Avenue
Kansas City, Missouri 64106



FOOD SERVICE:
Continue Providing
Healthy, Well
Balanced Meals



MDC Architecture, Inc.
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913-341-5053

May 2023

Video Monitor(s)
For Program
Announcements

Sneeze Guards

New Food Expo
Counter

Beverage Station
Coffee, Juice &
Water

A.D.A.
Height
Counter
Height

Elevation @ Food Expo Line

SCALE: $\frac{3}{8}" = 1'-0"$



View From Admiral Boulevard



HOPE FAITH
Homeless Assistance Campus

705 Virginia Avenue
Kansas City, Missouri 64106



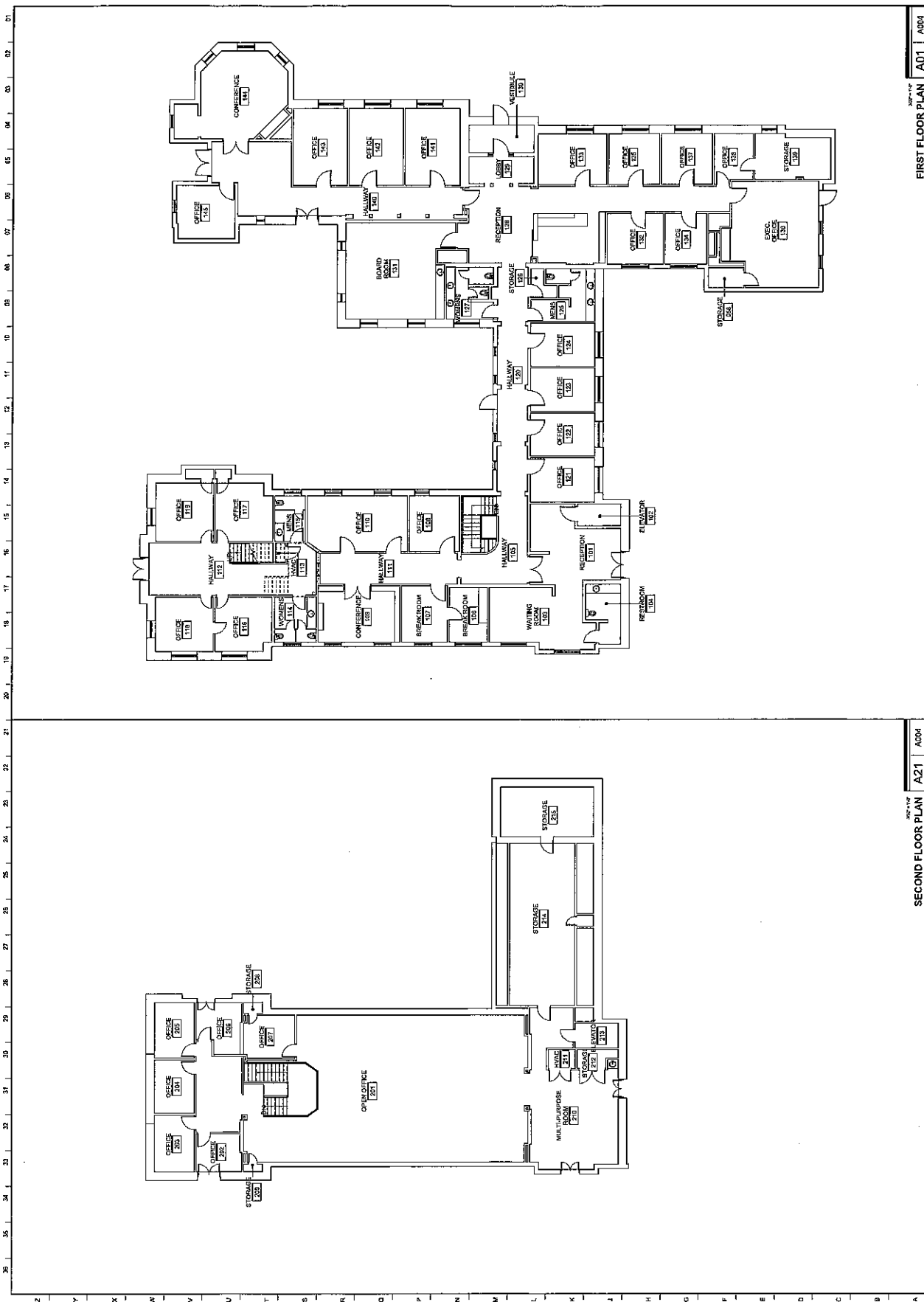
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March 2023

JEWISH VOCATIONAL SERVICES

4600 The Paseo, KCMO



Cornerstones of Care Photos



SW CYR

MANCOSA 6-036-90-5

5608M07539



SE
CYR



WARNING

Hazardous Moving Machinery and Electric Shock

Can cause severe injury or death.
All electric power must be disconnected before servicing. Do not enter this section while unit is operating.

LP73ED001A



WARNING

Fire/Explosion Hazard.

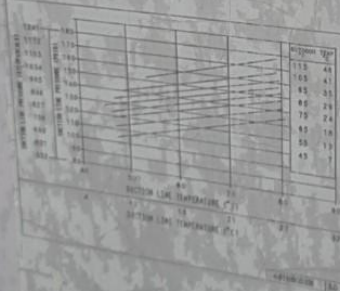
System contains oil & refrigerant under pressure. Do not torch to remove component. Wear your protective goggles.

1. Shut off electrical power to unit.
2. Relieve all pressure from system.
3. Cut connecting piping with tube cutter.
4. Remove component from unit.
5. Unravel piping stubs carefully. Oil may ignite when exposed to open flame.

Refer to service instructions manual for details.

COMMON

3 TON CHARGING CHART R410A REFRIGERANT



Puron
The environmentally friendly refrigerant.
This system contains R-410A Refrigerant.
Refer to product literature before
installing or servicing this unit.
Ce système contient du réfrigérant R-410A et l'huile polyol ester.
Référer à la littérature pour ce produit avant l'installation ou
l'entretien de l'unité.
92222-101 REV D

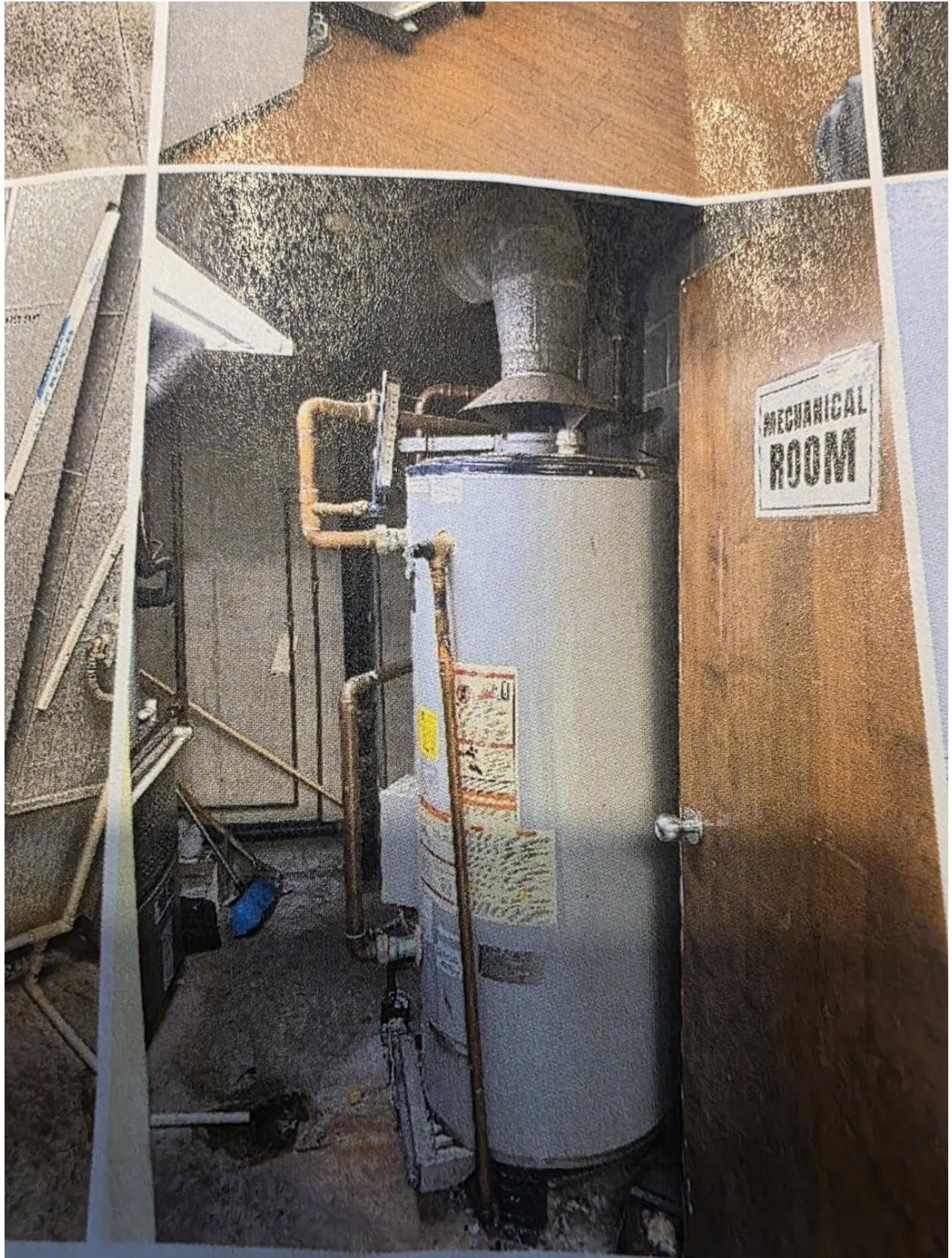


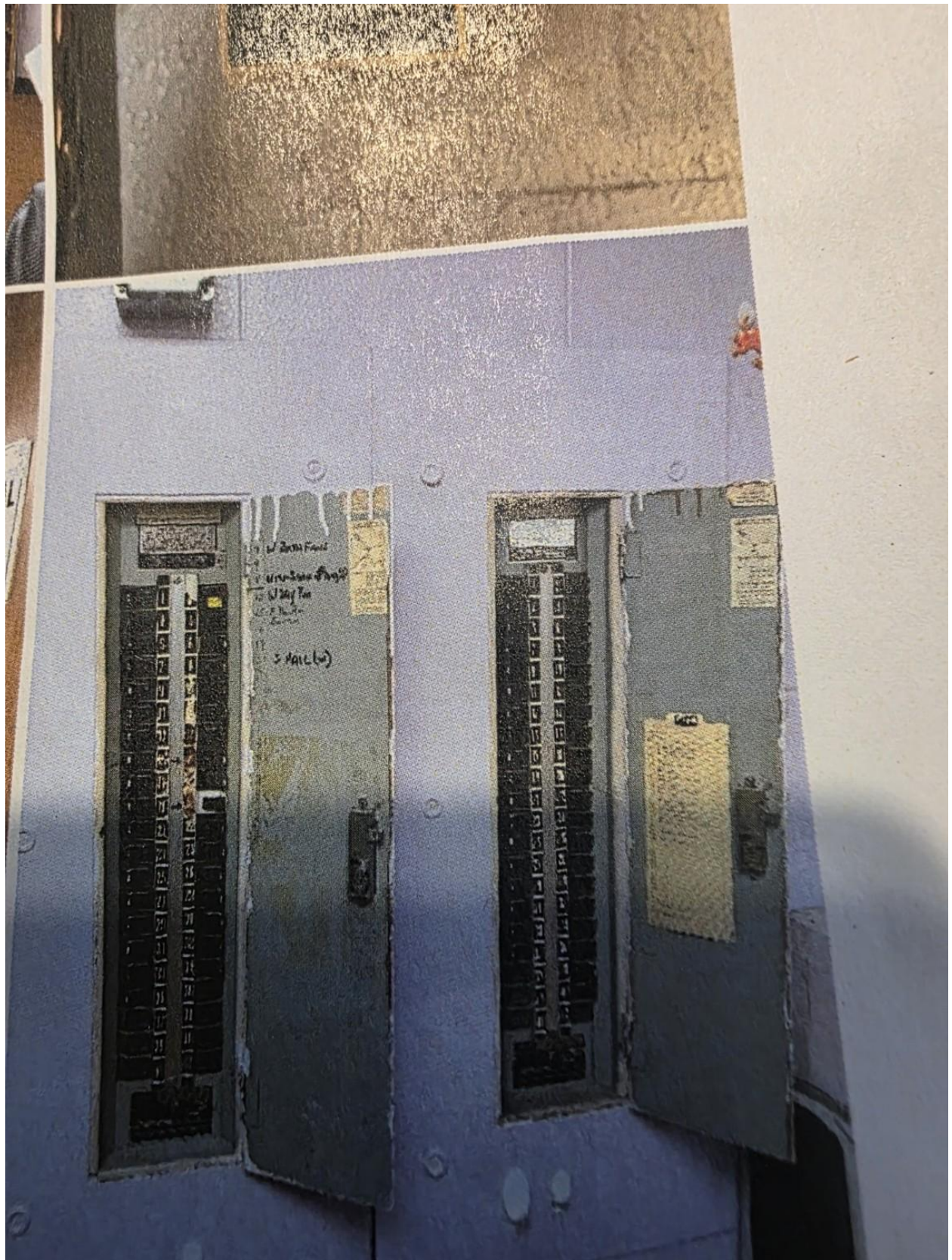


- 19
- 360
- OK

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SYNERGY SERVICES

PARKVILLE , MO

3	York	ZF048N10A2AAA2A	N1A3386256	4	40" x 70"	42" x 72"
4	York	ZF060N10A2AAA5A	N1B2592741	5	41" x 71"	45" x 82"
5	York	ZF036N08A2AAA2A	N1H2072621	3	40" x 70"	42" x 72"
6	York	ZF090N15N2AAA5A	N1A3449365	7.5	53" x 82"	55" x 83.5"
7	York	ZF048N10A2AAA2A	N1A3457653	4	40" x 70"	42" x 72"
8	York	ZF036N08A2AAA2A	N1N2341908	3	41" x 71"	42" x 72"

YMCA OF GREATER KANSAS CITY
LINWOOD BRANCH

Product	Description	Qty	Total Price
Ceiling Fan Kit, Powerfoil X4, 16', 400-480V/3PH, Stainless Steel Hardware <ul style="list-style-type: none"> - PFX/PFD Standard Industrial Mount Kit, 5-9 7/8" Beam Mount, 5 ft Extension Tube, Stainless Steel Hardware - Wired Standard Control - Tariff Surcharge, Big Fans (\$60, included) - Upgrade Credit 			

(877) 244-3267 | BIGASSFANS.COM

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EXCEPTIONALLY
ENGINEERED

LINWOOD PROPERTY

3210 MICHIGAN

Unit at Linwood Property in closet





Company	Hope Faith	reStart	Synergy	Mattie Rhodes	YMCA Linwood
Tempcon	X	X	X	X	X
B+C Mechanical	X	X	X	X	
Helm	X	X	X	X	X
Dialectic Engineering	X	X	X	X	X
Universal Mechanical	X				
Vazquez Electrical	X	X	X	X	
Sowards Glass	X				
KC Guys Heat and Cool/Amina	X	X		X	X
Summit Heating and Cooling			X		X
Haren Companies		X	X		
HVAC Cowboys					
Automated Controls System (ACS)					
Odell Service				X	
MetroAir		X	X		
Supreme Mechanical			X		
Emcor Services Fagan		X	X		
Trane					
Sage Restoration					

Company	Linwood Property	JVS	Guadalupe Centers	KC Library Waldo	Cornerstones of Care	Sam Rodgers
Tempcon	X	X	X	X	X	X
B+C Mechanical	X	X	X	X	X	X
Helm			X	X	X	X
Dialectic Engineering	X	X	X	X	X	X
Universal Mechanical						
Vazquez Electrical		X	X	X		X
Sowards Glass						
KC Guys Heat and Cool/Amina	X	X	X			X
Summit Heating and Cooling	X	X	X	X		X
Haren Companies		X	X		X	
HVAC Cowboys	X					
Automated Controls System (ACS)				X		
Odell Service						
MetroAir						
Supreme Mechanical						
Emcor Services Fagan						
Trane						X
Sage Restoration					X	