



HISTORIC DISTRICT COMMISSION APPLICATION FOR WORK APPROVAL

City of Detroit - Planning & Development Department
2 Woodward Avenue, Suite 808
Detroit, Michigan 48226

APPLICATION ID

HDC2025-00112

PROPERTY INFORMATION

ADDRESS(ES): 4704 Anthony Wayne Drive

HISTORIC DISTRICT: Warren-Prentis

SCOPE OF WORK: (Check ALL that apply)

- | | | | | | |
|---|--|--|---|---|--------------------------------|
| <input checked="" type="checkbox"/> Windows/
Doors | <input checked="" type="checkbox"/> Walls/
Siding | <input checked="" type="checkbox"/> Painting | <input type="checkbox"/> Roof/Gutters/
Chimney | <input type="checkbox"/> Porch/Deck/Balcony | <input type="checkbox"/> Other |
| <input checked="" type="checkbox"/> Demolition | <input checked="" type="checkbox"/> Signage | <input type="checkbox"/> New
Building | <input type="checkbox"/> Addition | <input type="checkbox"/> Site Improvements
(landscape, trees, fences,
patios, etc.) | |

BRIEF PROJECT DESCRIPTION:

The current condition of the areas subject to change are in severe disrepair, did not function or meet barrier free standards, and provided no natural light to the space. The existing facade existed primarily of painted masonry.

APPLICANT IDENTIFICATION

TYPE OF APPLICANT: Tenant or Business Occupant

NAME: Alexandra Sawa

COMPANY NAME: My Big Fat Shawarma

ADDRESS: 30800 Telegraph Rd. Suite 1724

CITY: Bingham Farms

STATE: MI

ZIP: 48025

PHONE: +1 (248) 789-0563

EMAIL: alex@mybigfatshawarma.com

I AGREE TO AND AFFIRM THE FOLLOWING:

- ☒ I understand that the failure to upload all required documentation may result in extended review times for my project and/or a denied application.
- ☒ I understand that the review of this application by the Historic District Commission does not waive my responsibility to comply with any other applicable ordinances including obtaining appropriate permits (building, sign, etc.) or other department approvals prior to beginning the work.
- ☒ I hereby certify that the information on this application is true and correct. I certify that the proposed work is authorized by the owner of record and I have been authorized to make this application as the property owner(s) authorized agent.

Signed by:

Alexandra Sawa

3EC2CA3DADE6455...

SIGNATURE

03/12/2025

DATE

30800 Telegraph Rd. Suite 1724

Bingham Farms

Questions? Contact us at hdc@detroitmi.gov or (313)224-1762

48025

MI

NOTE: Based on the scope of work, additional documentation may be required. See www.detroitmi.gov/hdc for scope-specific requirements.

PROJECT DETAILS – TELL US ABOUT YOUR PROJECT



Instructions: Add project details using the text box in each section. If your details exceed the space provided, attach the details via the attachment icon for that section.

ePLANS PERMIT NUMBER: (only applicable if you've already applied for permits through ePLANS)	BLD2024-01878
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GENERAL

<p>1. DESCRIPTION OF EXISTING CONDITION <i>Please tell us about the current appearance and conditions of the areas you want to change. You may use a few sentences or attach a separate prepared document on the right. (For example, "existing roof on my garage is covered in gray asphalt shingles in poor condition.")</i></p> <p>The current condition of the areas subject to change are in severe disrepair, did not function or meet barrier free standards, and provided no natural light to the space. The existing facade existed primarily of painted masonry.</p> <div>Attachment icon</div>
<p>2. PHOTOGRAPHS <i>Help us understand your project. Please attach photographs of all areas where work is proposed.</i></p> <div>Attachment icon</div>
<p>3. DESCRIPTION OF PROJECT <i>In this box, tell us about what you want to do at the areas described above in box #1. (For example, Install new asphalt shingle roofing at garage.)</i></p> <p>We are renovating what was a vacant space into a fast casual restaurant called My Big Fat Shawarma. The project called for a complete interior renovation, plans of which have been submitted to the building department and permitted for construction. From an exterior standpoint, our objective was to create an atmosphere of maximum natural light to a very narrow and deep space. We relocated the front door to accommodate interior circulation. We have preserved the two limestone masonry pilasters at the edges of the building.</p> <div>Attachment icon</div>
<p>4. DETAILED SCOPE OF WORK <i>In this box, please describe all steps necessary to complete the work described in box #3. (For example, "remove existing shingles, replace wood deck as necessary, replace wood eaves, install roof vents, replace rotted fascia boards, paint, clean worksite.")</i></p> <p>The current condition of the areas we want to change were in severe disrepair, did not function or meet barrier free standards, and provided no natural light to the space. The existing facade existed primarily of painted masonry.</p>
<p>5. BROCHURES/CUT SHEETS <i>Please provide information on the products or materials you are proposing to install. For example, a brochure on the brand and color of the shingles proposed.</i></p> <div>Attachment icon</div>

ADDITIONAL DETAILS

<p>6. WINDOWS/DOORS</p> <p><i>Detailed photographs of window(s) and/or door(s) proposed for replacement showing the condition of the interior and exterior of the window(s) and/or door(s)</i></p>	
<p>7. DEMOLITION</p> <p><i>If demolition is proposed for reasons of structural failure or catastrophic damage, please provide illustrated report from structural engineer or licensed architect.</i></p>	

52 sq ft max @ 20 feet wide business frontage

How much signage can I have?
All sign districts other than high-density commercial/industrial sign district. If your sign is in a high-density commercial/industrial sign district, turn to page 52.

Maximum Aggregate Signage Area (MASA) is the maximum amount of business signage you can have on your property, in square feet. Whether you have just one sign or many, if the combined area can't be more than the MASA for your property.

Before you begin calculating your MASA, enter the information you gathered in the previous section below, or go ahead and gather the information now.

1. Enter the width of your **building frontage** in feet.

answer: **20** ft.

2. Enter the width of your **premises frontage** in feet.

answer: **1BLDG = 80** ft.

130 feet horizontal entire property with multi-tenants

3. Multiply your answer from step 1 by 2.6.

2.6 x **20** = **52** sq. ft.

4. Compare your answers from steps 2 and 3. Write the **larger** number below.

answer: **52** sq. ft.

5. Is your answer from step 4 **larger than 500**? If yes, write the number 500 below. If no, write your answer from step 4 below.

MASA = 52 sq. ft.

Your answer from step 5 is your MASA. If you add up all the business signs on your property, the total area can't be larger than this number. Now, let's see what types of signs you can have. Continue to your sign district, based on the pages listed below.

Page 54 for signs in low-density residential sign district.
Page 56 for signs in low-density residential sign district.
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Page 64 for signs in a recreation/open space sign district.



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- Black TrimCap around edges of sign.
- Fabricated from 1/8" thick Aluminum Backers
- 3/16" Translucent white acrylic faces with Black and Yellow Vinyl as shown
- Remote power supply to be affixed inside the building.
- We will connect to your existing 20 amp 120 volt dedicated electrical sign circuit.
(If circuit does not exist, you'll need an electrician to run a dedicated circuit.
We can pull a permit for the Sign electrical connection itself, but not for a new circuit)

A Quality Name Since 1929

LaVANWAY

SIGN COMPANY, INC.

22124 Telegraph Rd.
Southfield, MI 48033
(O)248.356.1600 (F)248.356.1694
www.lavanwaysigns.com

My Big Fat Shawarma

Notes / Remarks

Alexandra Jona
(248) 789-0563

4704 Anthony Wayne Drive,
Detroit, Michigan 48201

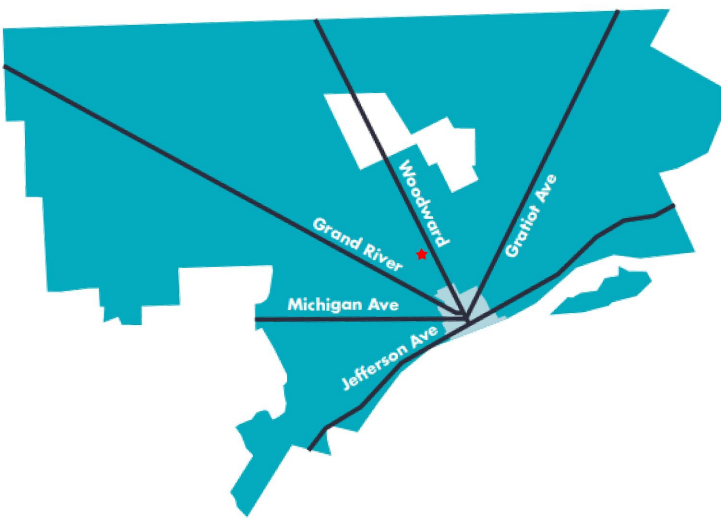
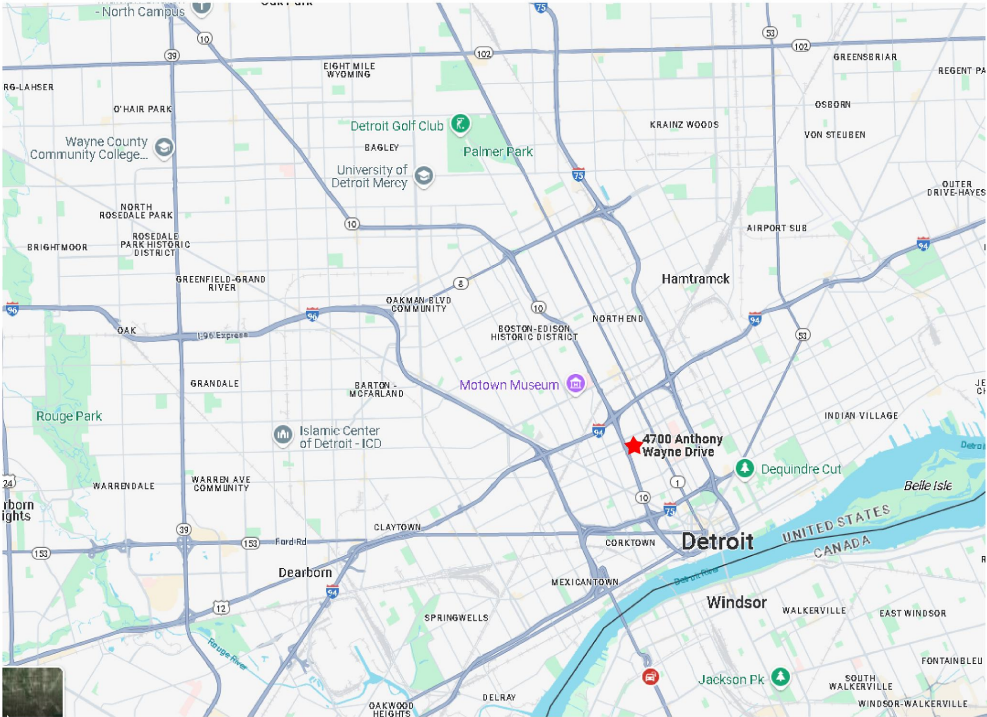
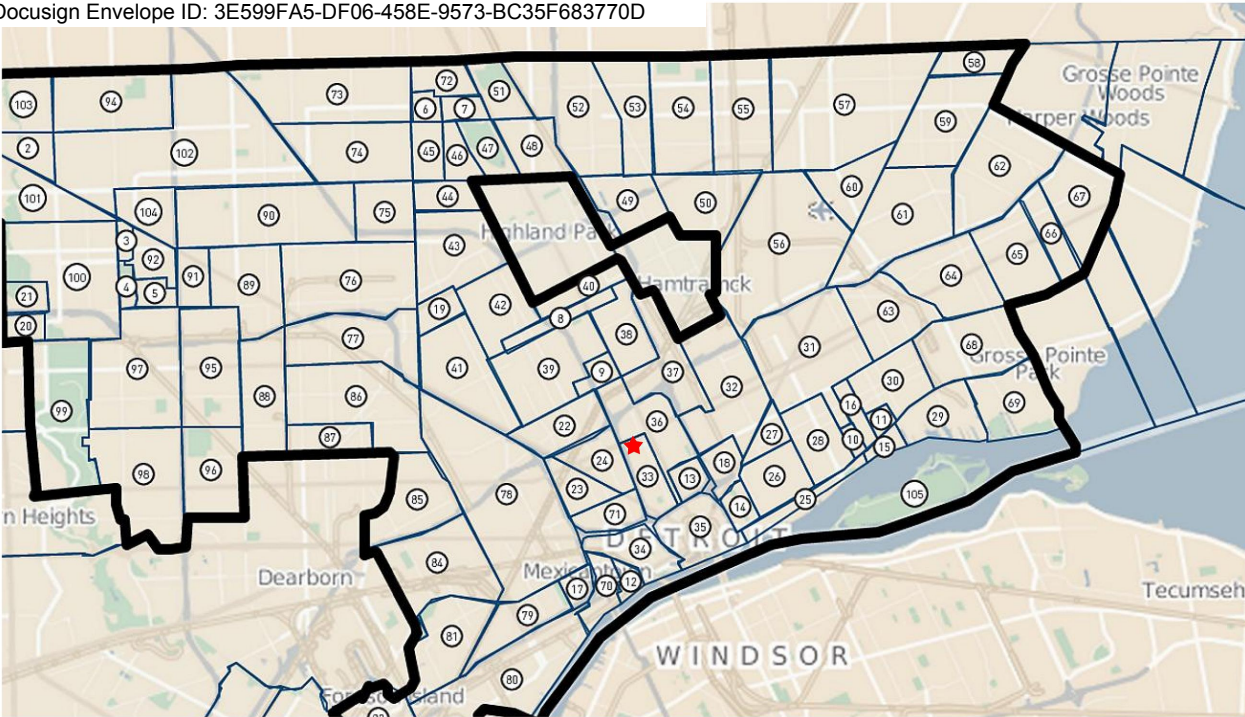
2-26-25

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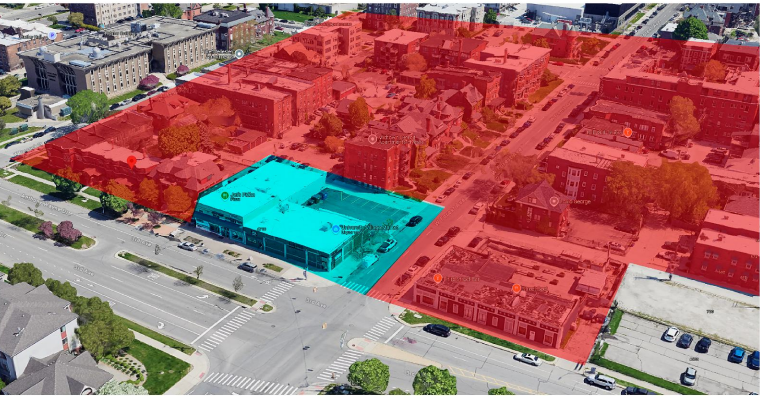
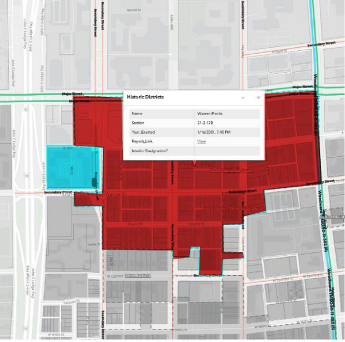
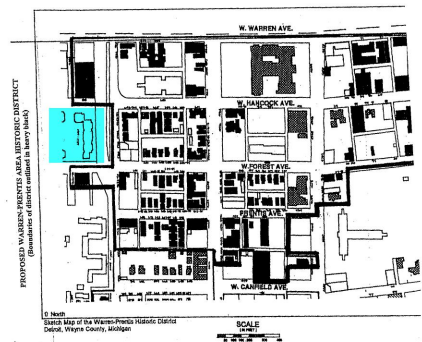
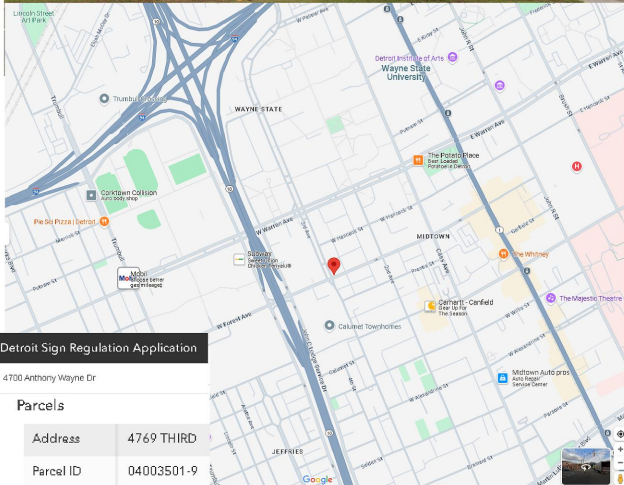
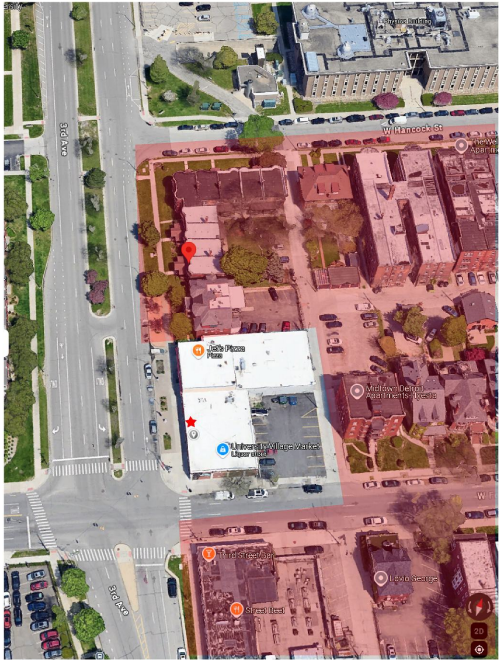
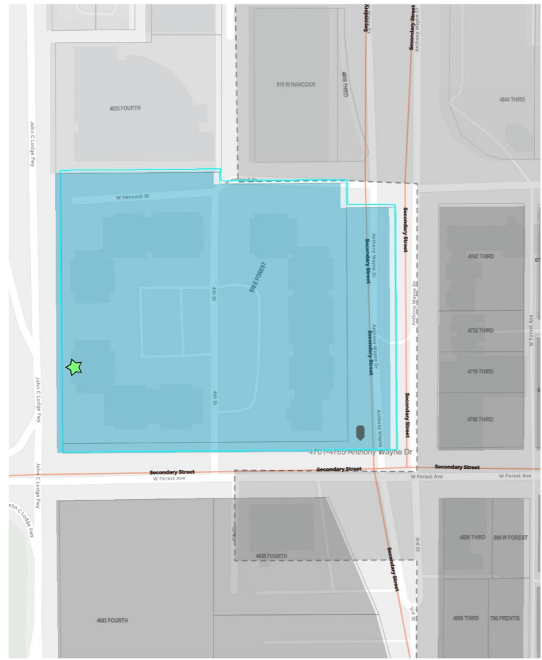
PROPOSED 144 "



144"x51.6"vertical as shown = 51.6 Square Feet.
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BUILDING LOCATED JUST OUTSIDE THE HISTORIC DISTRICT
Property is NOT in the Warren-Prentiss Historic District or any Historic District Overlay Area

Current Master Plan Future General Land Use

Zoning

RHHigh Density Residential: High-density residential/mixed use sign district

Zoning: Planned Development District

Future General Land Use Description

High Density Residential

Sign Regulation

High-density residential/mixed use sign district

Zoning:

PD

Zoning Description:

Planned Development District

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2-26-25



How much signage space I have?
All sign districts within Detroit have different signage regulations. The following table provides a general overview of the signage regulations for each district. For more detailed information, please refer to the Detroit Signage Ordinance.

District	Maximum Signage Area (MSA) in sq ft	Maximum Signage Area (MSA) in sq ft
Central Business District	20	20
Midtown	20	20
University City	20	20
West Village	20	20

Maximum Aggregate Signage Area (MASA)
The Maximum Aggregate Signage Area (MASA) is the total area of all signs on a building facade. The MASA is calculated by multiplying the building frontage by the maximum sign height. The MASA is limited to 52 square feet for buildings with a frontage of 20 feet or less. For buildings with a frontage greater than 20 feet, the MASA is calculated as follows: $MASA = \text{Building Frontage} \times 2.6$.

Signage Regulations
Signage must be installed in accordance with the Detroit Signage Ordinance. Signs must be illuminated with LED lights. Signs must be made of aluminum or other durable material. Signs must be maintained in good condition at all times.

- LED illuminated Channel Letters: 5" Deep Returns: BLACK
- Black TrimCap around edges of sign.
- Fabricated from 1/8" thick Aluminum Backers
- 3/16" Translucent white acrylic faces with Black and Yellow Vinyl as shown
- Remote power supply to be affixed inside the building.
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My Big Fat Shawarma 20 Feet horizontal store frontage 2-26-25. Rev 3/7/2025. Site Photo & measurement: 3-10-25.

Notes / Remarks

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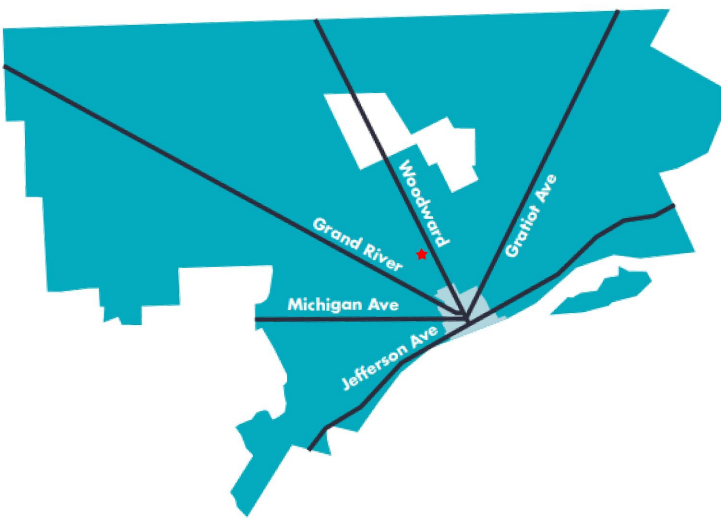
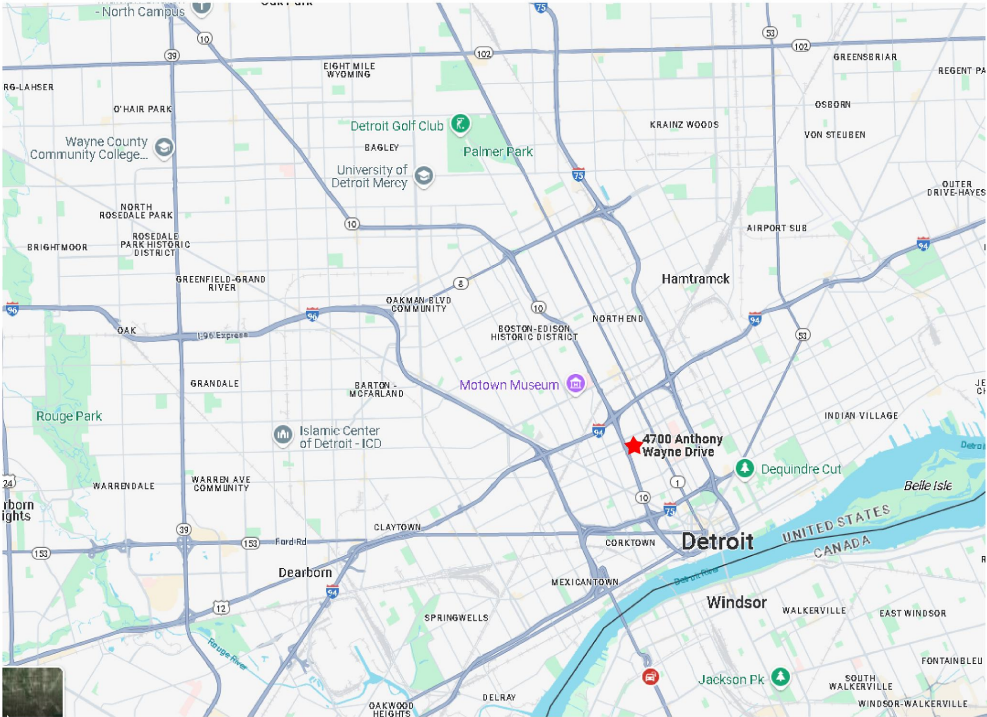
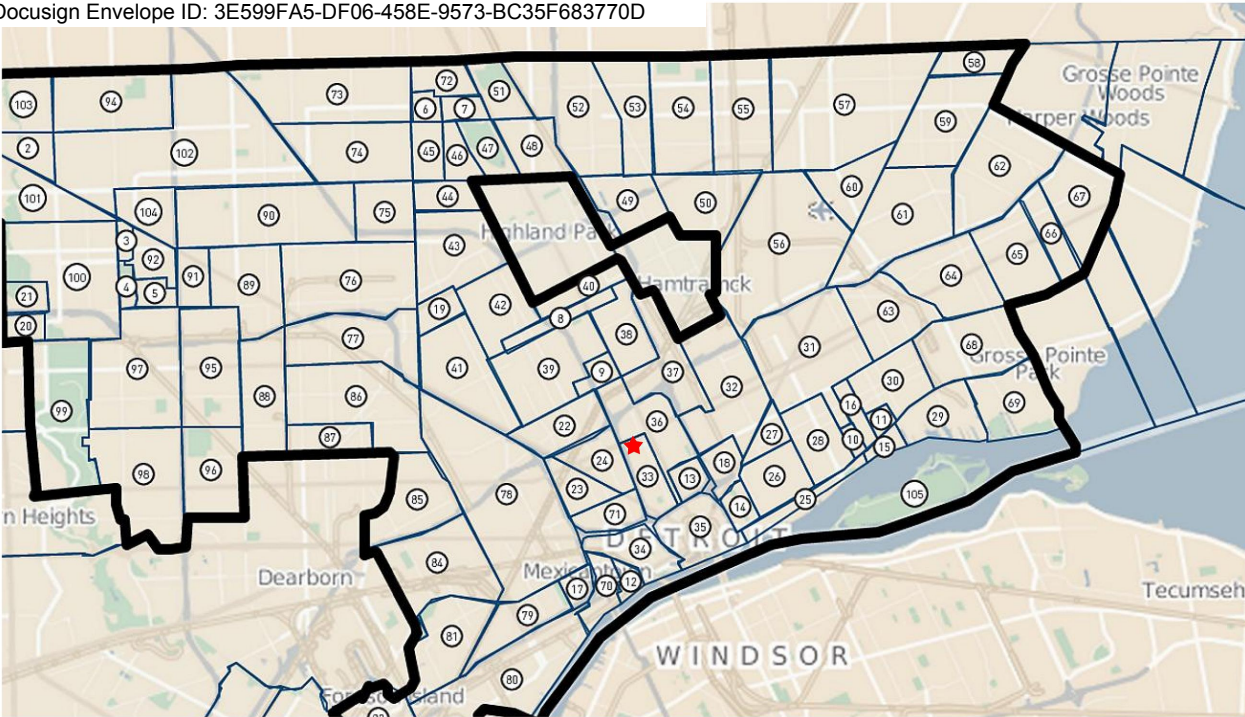
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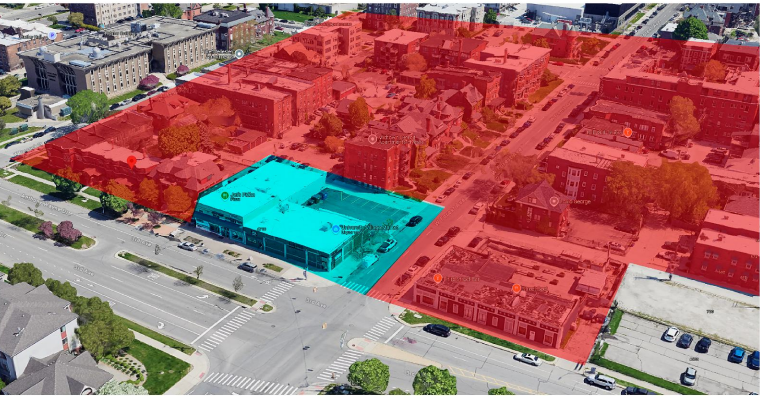
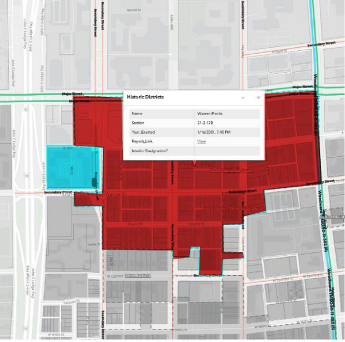
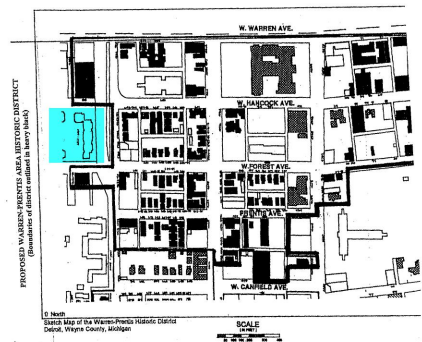
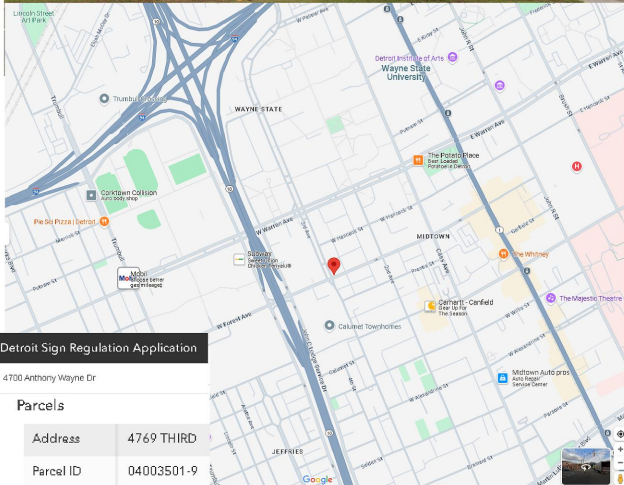
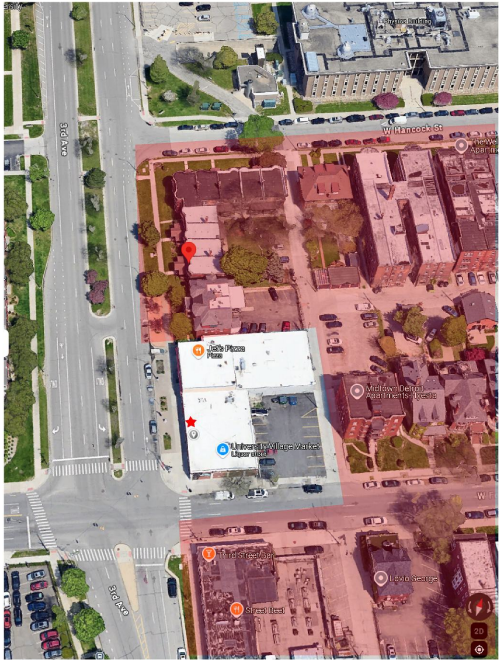
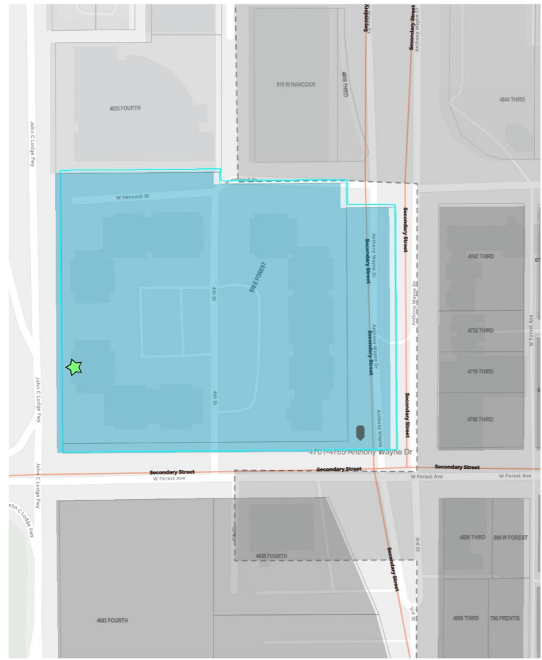
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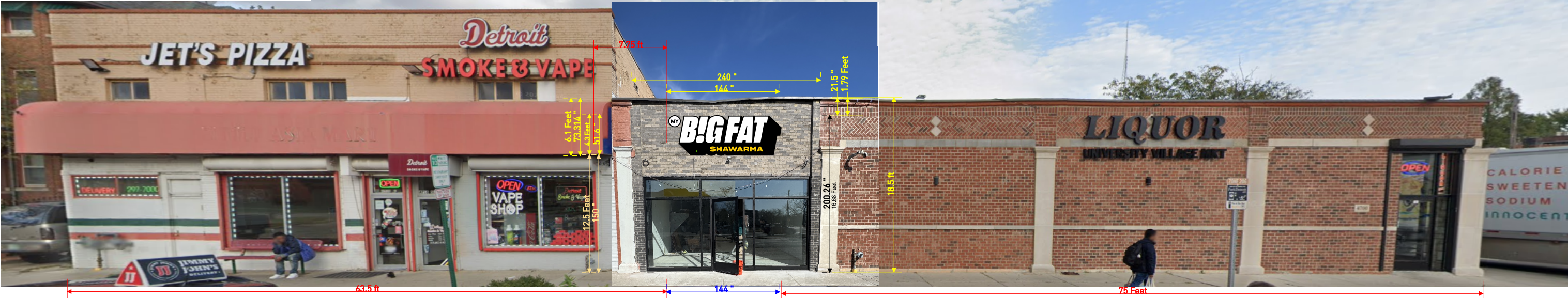
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All sign boards other than high-density channel letter boards, backlit sign boards, neon signs, etc.

Maximum Aggregate Signage Area (MASA) is the amount of signage permitted on the lot based on the amount of signage allowed. While you may have one sign, you may not have more than 52 sq. ft. of signage on the lot.

When installing signage on your MASA, use the information on general information on the frontage street and gather the information now.

1. Enter the width of your building frontage in feet.

2. Enter the width of your premises frontage in feet.

3. Calculate your MASA. If you are using a building frontage, the MASA will be the same as the building frontage. If you are using a premises frontage, the MASA will be the same as the premises frontage.

4. Compare your MASA to the MASA limit. If your MASA is greater than the MASA limit, you must reduce the size of your sign.

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City of Detroit
Buildings, Safety Engineering and Environmental Department
Building Division
Coleman A. Young Municipal Center
2 Woodward Avenue, 4th Floor, Suite 408, Detroit, Michigan 48226
(313) 224-3202

BUILDING PERMIT

SITE ADDRESS: 4700 THIRD **PERMIT NO.:** BLD2024-01878
PARCEL NUMBER: 04003415.002L **SECTOR:** **APPLIED:** 09/10/2024
TYPE OF WORK: Alteration **ISSUED:** 10/30/2024
ESTIMATED COST : \$90,000.00 **EXPIRES:** 04/28/2025
USE: Restaurant (Carry-Out) **PMR No.:**
PERMIT DESCRIPTION: AKA 4704 Anthony Wayne Dr. Interior Tenant alterations to Code per plans. Subject to Field Approval, Detroit Restaurant Business License requirements.

ZONING DISTRICT: B4-General Business **USE GRP:** B-304.1 **FL AREA:**
BLDG TYPE CODE: 3B - MASONRY (FP 200) **STORIES:** 1 **GROUND AREA:**
BETWEEN: Between and **SIZE:** 1000.00
LOT NO.: **SUBDIVISION:** 04003415.002L

<u>Owner</u>	<u>Applicant</u>	<u>Contractor</u>
GRESHAM MNGMNT CO 4700 ANTHONY WAYNE DR DETROIT, MI 48201 110	Moneer Alahwal 8331 Whitefield St. Dearborn Heights, MI 48127	

Fees			
Type	Status	Date	Amount
Building Permit Fee Balance (65%)	INVOICED	10/29/2024	\$1,722.51
Building Permit Deposit (35%)	INVOICED	10/29/2024	\$927.51
Electrical Plan Review Fee	INVOICED	10/29/2024	\$185.50
Mechanical Plan Review Fee	INVOICED	10/29/2024	\$185.50
Plumbing Plan Review Fee	INVOICED	10/29/2024	\$185.50
Fire Plan Review Fee	INVOICED	10/29/2024	\$225.00
Total:			\$3,431.52

Please be advised per the **2015** Michigan Building Code: Each permit issued by the code official under the provisions of the code shall expire by limitation and become null and void if the work authorized by the permit has not begun within 180 days from the issued date of the permit or if not inspected, after the work has begun for a period of 180 days. Before the work may be restarted, the permit shall be reinstated if the code has not changed. If the code has changed and the work was not started, a new permit is required based on the current requirements.

PROJECT:

MY BIG FAT SHAWARMA

ADDRESS:

4704 ANTHONY WAYNE DR. DETROIT, MI 48201

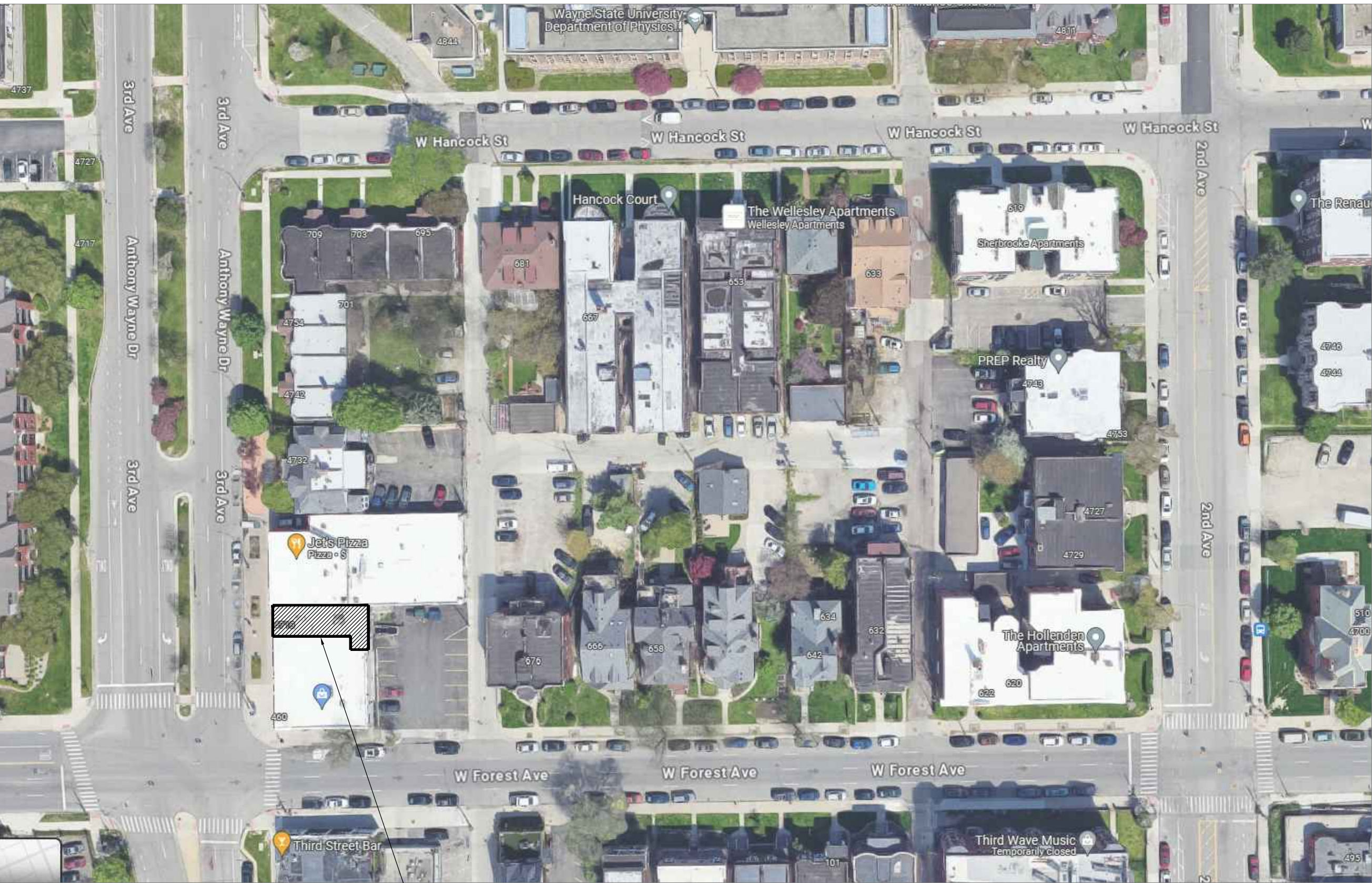
DRAWING INDEX		
SHEET No.	SHEET TITLE	
A-1	EXISTING/DEMO FLOOR PLAN (COVER SHEET)	ARCHITECTURAL
A-2	PROPOSED FLOOR PLAN & EQUIPMENT PLAN	
A-3	PROP. FRONT ELEVATION & REFLECTED CEILING PLAN	
P-1	ROUGH-IN PLUMBING & WATER PIPING PLANS	PLUMBING
M-1	MECHANICAL - HVAC PLAN	MECHANICAL
M-2	MECHANICAL EQUIPMENT DETAILS	
E-1	ELECTRICAL - LIGHTING PLAN	ELECTRICAL
E-2	ELECTRICAL - POWER PLAN	

* GENERAL CONTRACTOR TO MAINTAIN AT THE PROJECT SITE ONE COPY OF THE CITY APPROVED PLANS.

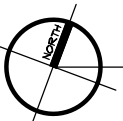
PROPOSED WORK:
THE BUILDING IS AN EXISTING BUILDING, AND THERE WILL NOT BE ANY STRUCTURAL ALTERATIONS. THE PROPOSED WORK IS INTERIOR BUILD OUT, NEW KITCHEN EQUIPMENT, NEW PLUMBING MATERIALS, NEW MECHANICAL/HVAC MATERIALS, AND NEW ELECTRICAL MATERIALS WILL BE INSTALLED.

DEFERRED SUBMITTAL:
FIRE ALARM SYSTEM & FIRE SUPPRESSION PLANS, AND SPECS FOR KITCHEN HOOD SHALL BE PROVIDED BY TENANT'S FIRE ALARM CONTRACTOR.

NOTE TO CONTRACTOR:
- CONTRACTOR TO VERIFY THAT ALL DIMENSIONS SHOWN COMPLY WITH BUILDING CONDITIONS.
- THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE FINAL HOOK-UPS ON ALL PIECES OF EQUIPMENT.
- GENERAL CONTRACTOR RESPONSIBILITIES INCLUDE:
• ALL ELECTRICAL AND PLUMBING CONNECTION. THIS INCLUDES GAS LINES, RESTRAINING DEVICES, WATER LINES, DRAIN LINES, WIRING, ETC.
• INSTALLATION OF ALL WALL BACKING.
• SUPPLY OF WATER HEATER (TO BE INSTALLED BY PLUMBER)
• INSTALLATION OF THE FURNITURE AND MILLWORK BY GC. (TO INCLUDE TABLES AND BASE ASSEMBLY)



MY BIG FAT SHAWARMA, 4704 ANTHONY WAYNE DR.



AERIAL VIEW OF LOCATION

N.T.S.

GENERAL NOTES:

- ALL WORK SHALL BE DONE IN ACCORDANCE WITH ALL APPLICABLE LOCAL AND STATE CODES AND ORDINANCES, INCLUDING 2015 MICHIGAN BUILDING CODE, NFPA, NEC & MICHIGAN BARRIER FREE DESIGN.
- CONTRACTOR SHALL VISIT THE SITE TO FAMILIARIZE HIMSELF WITH THE CONDITIONS UNDER WHICH THE WORK IS TO BE PERFORMED. SUBMITTAL OF A BID SIGNIFIES THE ACCEPTANCE OF SUCH CONDITIONS.
- CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS IN THE FIELD PRIOR TO CONSTRUCTION.
- CONTRACTOR SHALL BE RESPONSIBLE FOR TEMPORARY BRACING AND SHORING OF STRUCTURES DURING DEMOLITION AND CONSTRUCTION, AS REQUIRED.
- CONTRACTOR SHALL REMOVE OR CAP ALL EXISTING ELECTRICAL LINES THAT WILL NOT BE USED.
- CONTRACTOR SHALL BE RESPONSIBLE FOR PROPER DISPOSAL OF DEBRIS FROM THE JOB SITE AND SHALL KEEP THE JOB SITE IN A CLEAN AND ORDERLY MANNER AT ALL TIMES.
- CONTRACTOR SHALL VERIFY ANY ADDITIONAL OWNER REQUIREMENTS NOT NOTED ON DRAWINGS PRIOR TO CONSTRUCTION.
- CONTRACTOR SHALL INCLUDE THE COST OF ALL REQUIRED PERMITS IN HIS BID AND SHALL SECURE SAME.
- ALL DIMENSIONS ARE TO FINISH UNLESS NOTED OTHERWISE (U.N.O.).
- ALL INTERIOR PARTITIONS ARE 3 5/8" STEEL STUDS @ 16" o.c., U.N.O.
- DO NOT SCALE DRAWINGS, USE FIGURED DIMENSIONS ONLY.
- INSTALL SOLID WOOD BLOCKING AS REQUIRED FOR MOUNTING OF GRAB BARS, MIRRORS, SHELVES, COUNTERS, ETC.

DEMOLITION NOTES:

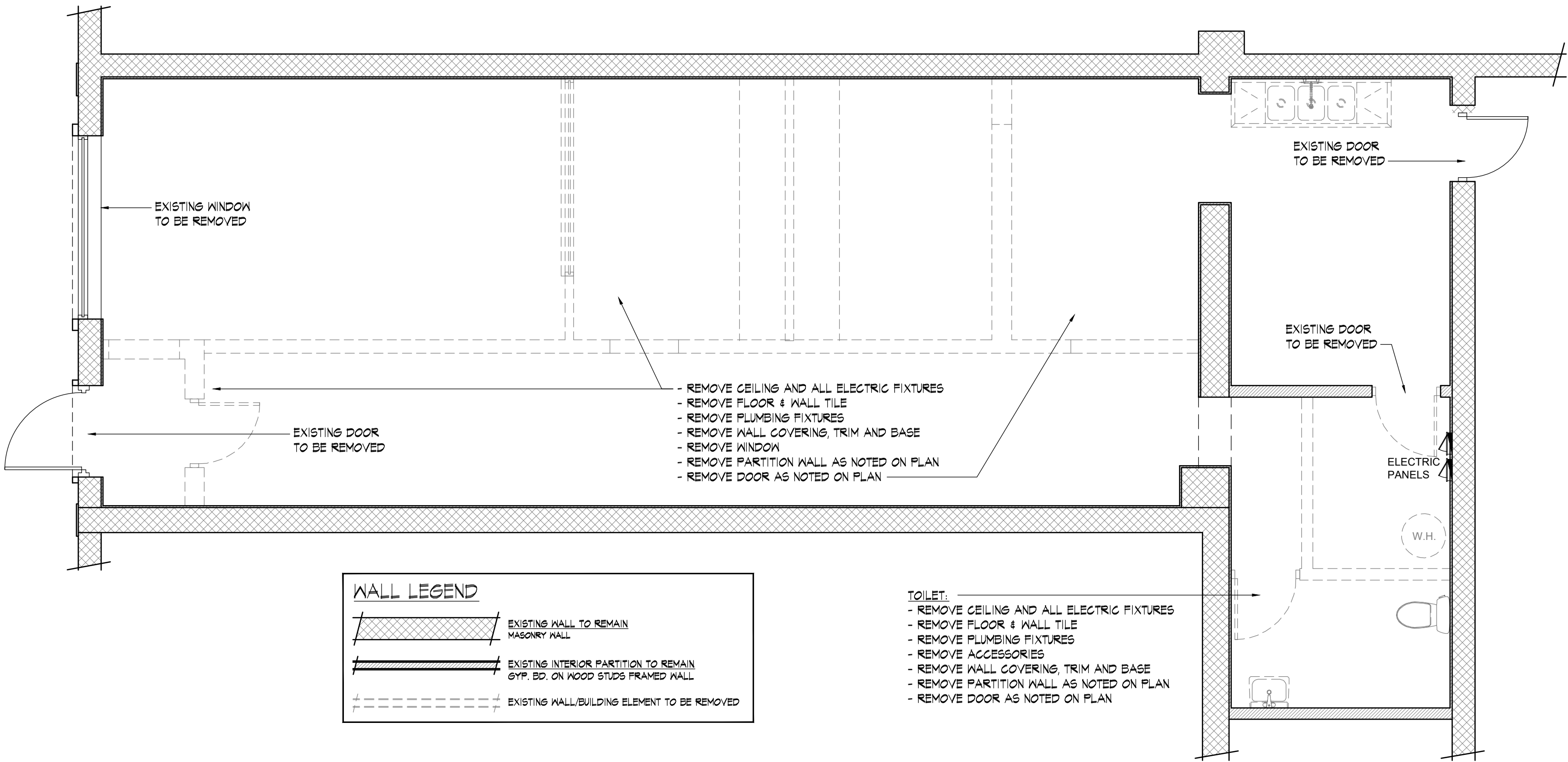
- ELECTRICAL CONTRACTOR SHALL REMOVE ALL WIRING AND OUTLETS IN EXISTING WALLS THAT ARE TO BE REMOVED BACK TO ELEC. PANEL.
- PLUMBING CONTRACTOR SHALL CAP ALL EXISTING PLUMBING SUPPLY AND WASTE LINES THAT WILL NOT BE RE-USED.
- PATCH AND REPAIR ALL EXISTING WALL SURFACES THAT ARE TO REMAIN AT AREAS WHERE EXISTING CONSTRUCTION IS TO BE REMOVED.
- GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR PROPER REMOVAL OF ALL DEBRIS AND CONSTRUCTION SPOILS.
- SHORE & BRACE EXISTING CONSTRUCTION AS REQUIRED DURING DEMOLITION.
- CONTRACTORS SHALL NOT ENGAGE IN ANY WORK ACTIVITY THAT WILL RESULT IN THE PRODUCTION OF ANY NOXIOUS ODORS OR SMOKE WITHOUT THE CONSENT OF THE OWNER.
- CONTRACTORS SHALL HAVE AN APPROVED FIRE EXTINGUISHER AVAILABLE AT ALL TIMES WHEN OPEN FLAME IS REQUIRED IN THE PERFORMANCE OF THE WORK.

GENERAL MECHANICAL NOTES:

- ALL WORK SHALL BE IN ACCORDANCE WITH THE "AMERICAN SOCIETY OF HEATING, REFRIGERATION AND AIR CONDITIONING ENGINEERS".
- CONTRACTOR IS TO CLEAN ALL FIXTURES THAT ARE TO REMAIN AND REMOVE DIRT FROM ALL DUCTWORK.
- CONTRACTOR IS TO ASSURE THAT THE VENTILATION SYSTEM WILL BE RENOVATED TO A FULLY OPERATIONAL CONDITION. ALL CONTROLS ARE TO BE FUNCTIONAL, AND THE SYSTEM WILL BE COMPLETE.
- CONTRACTOR IS TO BALANCE THE VENTILATION SYSTEM IN ALL WORK AREAS TO ASSURE UNIFORM, AND ACCEPTABLE, LEVELS OF SUPPLY AND RETURN AIR.
- ALL WORK TO BE DONE BY A LICENSED MECHANICAL CONTRACTOR WHO WILL BE RESPONSIBLE FOR ALL PERMITS AND INSPECTIONS RELATED TO THE MECHANICAL WORK.

NOTES:

- ALL DIMENSIONS SHOWN ON THE PLANS MUST BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO THE START OF CONSTRUCTION. CONTRACTOR MUST NOTIFY ARCHITECT, IN WRITING, IF ANY CONFLICTS, DISCREPANCIES, OR AMBIGUITIES EXIST PRIOR TO PROCEEDING WITH CONSTRUCTION.
- ALL EXISTING UTILITIES MUST BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO THE START OF CONSTRUCTION.



WALL LEGEND

- EXISTING WALL TO REMAIN MASONRY WALL
- EXISTING INTERIOR PARTITION TO REMAIN GYP. BD. ON WOOD STUDS FRAMED WALL
- EXISTING WALL/BUILDING ELEMENT TO BE REMOVED

TOILET:

- REMOVE CEILING AND ALL ELECTRIC FIXTURES
- REMOVE FLOOR & WALL TILE
- REMOVE PLUMBING FIXTURES
- REMOVE ACCESSORIES
- REMOVE WALL COVERING, TRIM AND BASE
- REMOVE PARTITION WALL AS NOTED ON PLAN
- REMOVE DOOR AS NOTED ON PLAN

GENERAL PLUMBING NOTES:

- IT IS THE RESPONSIBILITY OF THE OWNER TO SUBMIT THESE PLANS FOR APPROVAL PRIOR TO START OF WORK.
- ALL MATERIAL AND WORKMANSHIP SHALL CONFIRM TO THE REQ. OF APPLICABLE BUILDING CODES AND ORDINANCES.
- CONTRACTORS SHALL OBTAIN AND PAY FOR ALL THE PERMIT FEES THAT IS RELATED TO THEIR PART OF WORK.
- PRIOR TO BIDDING, CONTRACTORS MUST VISIT THE JOB SITE TO BECOME FAMILIAR WITH THE SCOPE OF WORK.
- PRIOR TO START OF WORK, CONTRACTORS TO CHECK AND VERIFY ALL DIMENSIONS ON THE FIELD, REPORT ANY ERRORS, OMISSIONS, OR POSSIBLE DISCREPANCIES TO THE OWNER/ OR ARCHITECT.
- PLUMBING CONTRACTOR SHALL VERIFY LOCATION AND SIZE OF EXISTING SANITARY AND WATER LINES, PERFORM ANY NEEDED CHANGES ON PLANS TO MEET JOB REQ. AS PER CODE.
- THESE PLANS SHOW ROUGH-IN REQ. FOR THE EQUIPMENTS DISCUSSED WITH OWNER AT THE START AND DURING THE DESIGN PROCESS. CONTRACTORS TO CHECK WITH OWNER FOR ANY CHANGES, SO THE SERVICE REQ. ARE SIZED AND ROUGHED- IN PROPERLY.
- CONTRACTORS ARE RESPONSIBLE TO CHECK THE SPECIFICATION SHEETS OF ALL EQUIPMENTS TO BE USED ON THIS JOB, TO PROPERLY LOCATE THE ROUGH -IN LOCATION AND TO SUPPLY ALL FITTINGS NEEDED TO DO THE FINAL CONNECTIONS OF ALL EQUIPMENTS.
- ALL SERVICES SHOWN WITH SYMBOLS CENTERED ON FACE OF WALL, STUBBED OUT OF THE WALL CENTERED AT HEIGHT SHOWN, DO NOT STUB OUT OF FLOOR AND RUN EXPOSED ON FACE OF WALL.
- ALL SERVICES SHOWN WITH SYMBOLS AWAY FROM ANY WALL OR COLUMN SHOULD BE STUBBED OUT OF THE FLOOR TO A MAXIMUM OVERALL HEIGHT AS SHOWN.

GENERAL ELECTRICAL NOTES:

- THIS CONTRACTOR SHALL, AT HIS OWN EXPENSE, OBTAIN ALL NECESSARY PERMITS, INSPECTIONS & LICENSES & COMPLY WITH ALL LOCAL AND STATE ORDINANCES, THE MOST RECENTLY ADOPTED NATIONAL ELECTRICAL CODE & THE SPECIFIC REQUIREMENTS OF THE LOCAL ELECTRICAL POWER UTILITY.
- THIS CONTRACTOR SHALL FURNISH ALL SUPERVISION, LABOR, EQUIPMENT & MATERIALS AND INSTALL ALL AS CALLED FOR IN THESE SPECIFICATIONS & AS SHOWN ON THE PLANS OR AS MAY BE REASONABLY IMPLIED BY BOTH, FOR A COMPLETE ELECTRICAL SYSTEM INSTALLATION.
- ALL MATERIAL SHALL BE NEW AND SHALL CONFORM TO ALL APPLICABLE STANDARDS OR REQUIREMENTS GOVERNING SAME.
- THE ELECTRICAL CONTRACTOR SHALL SUBMIT BROCHURES AND/OR DRAWINGS OF ALL FIXTURES AND OTHER ELECTRICAL EQUIPMENT FOR APPROVAL BEFORE THE EQUIPMENT IS PURCHASED.
- THE PLANS ARE DIAGRAMATIC ONLY. CONTRACTOR SHALL FOLLOW AS CLOSELY AS POSSIBLE.
- THIS CONTRACTOR IS RESPONSIBLE FOR THE INTEGRATION OF HIS ELECTRICAL WORK WITH THE OTHER TRADES INVOLVED IN THE PROJECT AND MUST REASONABLY COOPERATE THROUGH COMMUNICATION AND COORDINATION TO FACILITATE THE PROGRESS OF THE PROJECT.
- ALL WORK SHALL BE ACCOMPLISHED BY QUALIFIED CRAFTSMEN ADHERING TO ACCEPTABLE PRACTICES, STANDARDS AND TOLERANCES.
- THIS CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DAMAGE TO OTHER WORK CAUSED BY HIS WORKMEN THROUGH NEGLECT OR OTHERWISE.
- ALL WIRE SHALL BE THIN OR THIN INSULATED COPPER AND OF REQUIRED SIZE.
- ALL CONDUIT SHALL BE INSTALLED CONCEALED WHERE PHYSICALLY POSSIBLE. ALL EXPOSED CONDUIT SHALL BE INSTALLED PARALLEL OR AT RIGHT ANGLES WITH THE BUILDING WALLS.
- A PROPER WORKING CLEARANCE MUST BE PROVIDED AND MAINTAINED ABOUT ALL ELECTRICAL EQUIPMENT. ELECTRICAL EQUIPMENT SUCH AS PANELS, DISCONNECTS, TRANSFORMERS ETC. SHALL BE LOCATED IN DEDICATED SPACES.
- EACH CONDUCTOR OF EVERY SYSTEM SHALL BE PERMANENTLY TAGGED IN EACH PANELBOARD, FULLBOX, JUNCTION BOX ETC. TYPEWRITTEN CIRCUIT INDEX CARDS SHALL BE AFFIXED TO THE EXPOSED SURFACE OF EACH PANELBOARD DOOR, CLEARLY INDICATING AREA AND TYPE OF LOAD SERVED BY EACH CIRCUIT BREAKER.



Permit Number: BLD2024-01878



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PROJECT:
MY BIG FAT SHAWARMA

ADDRESS:
4704 ANTHONY WAYNE DR. DETROIT, MI 48201

REVISIONS:

10/18/2024

DATE:

08/26/2024

DRAWN BY:

MONAER ALAHWAL

SCALE:

AS NOTED

SHEET TITLE:

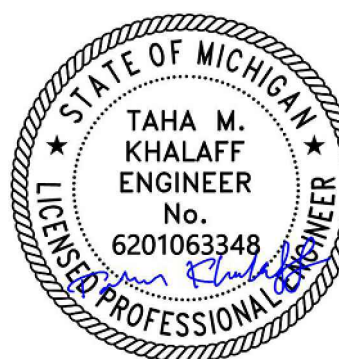
- EXISTING/DEMO FLOOR PLAN

(COVER SHEET)

SHEET #:

A-1

APPROVED BY:

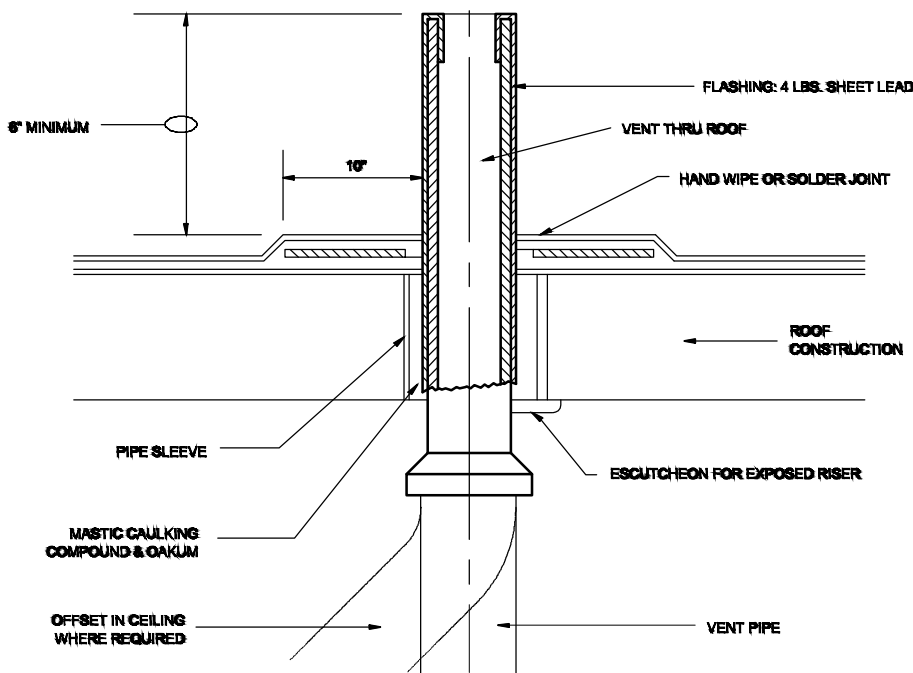


IMPORTANT NOTE:

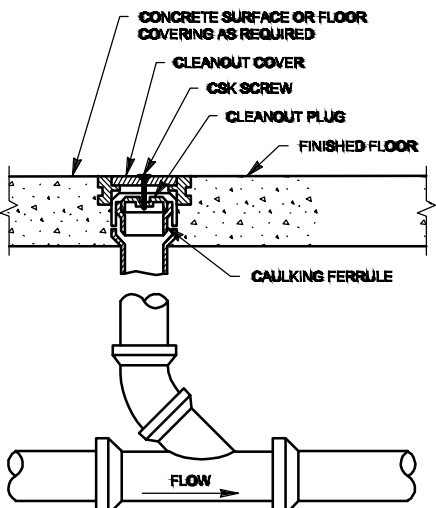
- PLUMBING CONTRACTOR TO REMOVE ALL PIPING, FIXTURES, EQUIPMENTS THAT ARE NOT BEING USED FROM FLOOR, CEILING AND ROOF.
- WATER HEATER FLUE & FRESH AIR COMBUSTION PIPS BY PLUMBER.
- PLUMBING CONTRACTOR TO VERIFY THE EXACT LOCATION OF THE EXISTING SANITARY LINE BEFORE STARTING TO RUN NEW LINES. VERIFY SIZE AND DIRECTION OF FLOW.
- PROVIDE TRAP PRIMERS ON FLOOR DRAINS PER MFC 1002.4
- PROVIDE A BACKFLOW PREVENTER AFTER THE WATER METER PER MFC 608.1
- PROVIDE TEMPERING VALVE FOR ALL HAND SINKS
- REMOVE AND CAP ALL EXISTING PLUMBING NOT BEING USED.
- VERIFY CONDITIONS OF ALL EXISTING PLUMBING PRIOR TO START OF WORK.
- PROVIDE VENTS AS REQUIRED BY LOCAL CODES.
- RE-USE WHEN POSSIBLE ALL EXISTING UNDER GROUND PLUMBING.
- PROVIDE VENTS REQUIRED BY CODE. VENT PIPES TO BE CONCEALED INSIDE WALLS ADDED TO MAIN VENT PIPE THRU-ROOF. PROVIDE THE REQUIRED DISTANCE FROM FRESH AIR INTAKE DEVICES ON ROOF.
- PROVIDE CLEAN OUTS AT THE END OF DRAIN & AT CHANGE OF DIRECTION.

GENERAL PLUMBING NOTES

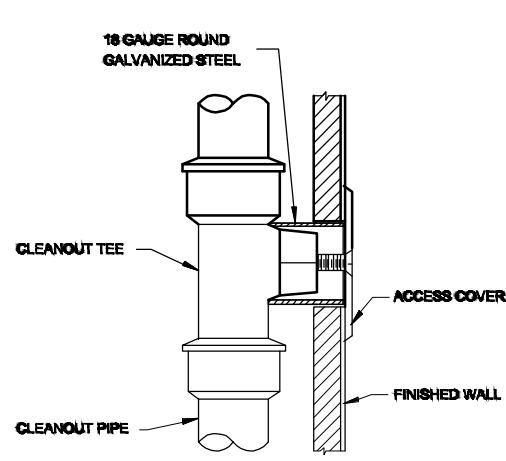
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- CONTRACTORS ARE RESPONSIBLE TO CHECK THE SPECIFICATION SHEETS OF ALL EQUIPMENTS TO BE USED ON THIS JOB. TO PROPERLY LOCATE THE ROUGH -IN LOCATION AND TO SUPPLY ALL FITTINGS NEEDED TO DO THE FINAL CONNECTIONS OF ALL EQUIPMENTS.
- ALL SERVICES SHOWN WITH SYMBOLS CENTERED ON FACE OF WALL STUBBED OUT OF THE WALL CENTERED AT HEIGHT SHOWN. DO NOT STUB OUT OF FLOOR AND RUN EXPOSED ON FACE OF WALL.
- ALL SERVICES SHOWN WITH SYMBOLS AWAY FROM ANY WALL OR COLUMN SHOULD BE STUBBED OUT OF THE FLOOR TO A MAXIMUM OVERALL HEIGHT AS SHOWN.



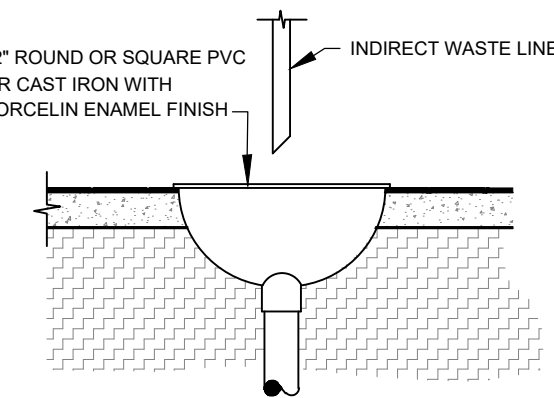
VENT THRU ROOF DETAIL
N.T.S.



FLOOR CLEANOUT-FINISHED ROOMS
N.T.S.

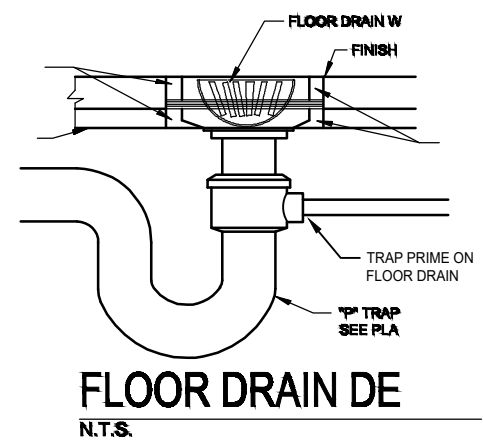


WALL CLEANOUT DETAIL
N.T.S.



12" INDIRECT WASTE DETAIL
N.T.S.

WATER PIPING ROUGH-IN	
①	(1) 1/2" CW & HW, BT MOP SINK FAUCET
②	(3) 1/2" CW & HW, 16" AFF, BT SINK FAUCETS (PROVIDE TEMPERING VALVES)
③	(1) 3/4" CW, BT WATER CLOSET (VERIFY BRAND WITH OWNER)
④	(2) 3/4" CW & HW, 16" AFF, BT 3-COMPARTMENT SINK (VERIFY BRAND WITH OWNER)
⑤	(1) 3/4" CW & HW, 16" AFF, BT PREP SINK (VERIFY BRAND WITH OWNER)
⑥	(1) 1/2" CW, ICE & WATER DISPENSER (VERIFY BRAND WITH OWNER)
⑧	(2) 3/4" CW & HW, WATER HEATER (VERIFY BRAND WITH OWNER)
NOTES:	
- PROVIDE WATER HAMMER ARRESTOR UPSTREAM OF ALL ELECTRICAL SOLENOID WATER VALVES.	
- PROVIDE TEMPERING VALVE FOR ALL HAND SINKS (60 °MAX. TEMP. RISE)	
- VERIFY CONDITIONS OF ALL EXISTING WATER PIPES PRIOR TO START OF WORK.	
PLUMBING ROUGH-IN	
①	(1) 2" WT, BT MOP SINK DRAIN (VERIFY TYPE)
②	(3) 1 1/2" WT, 16" AFF, BT SINKS DRAINS
③	(1) 3" WT, BT WATER CLOSET (VERIFY BRAND)
④	(1) 12" INDIRECT WASTE, 3-COMPARTMENT SINK
⑤	(1) 12" INDIRECT WASTE, PREP SINK
⑥	(1) 12" INDIRECT WASTE, ICE & WATER DISPENSER (VERIFY BRAND)
⑦	(1) 12" INDIRECT WASTE, COILS CONDENSATE DRAIN
NOTES:	
- REMOVE AND CAP ALL EXISTING PLUMBING NOT BEING USED.	
- VERIFY CONDITIONS OF ALL EXISTING PLUMBING PRIOR TO START OF WORK.	
- PROVIDE VENTS AS REQUIRED BY LOCAL CODES.	
- RE-USE WHEN POSSIBLE ALL EXISTING UNDER GROUND PLUMBING.	

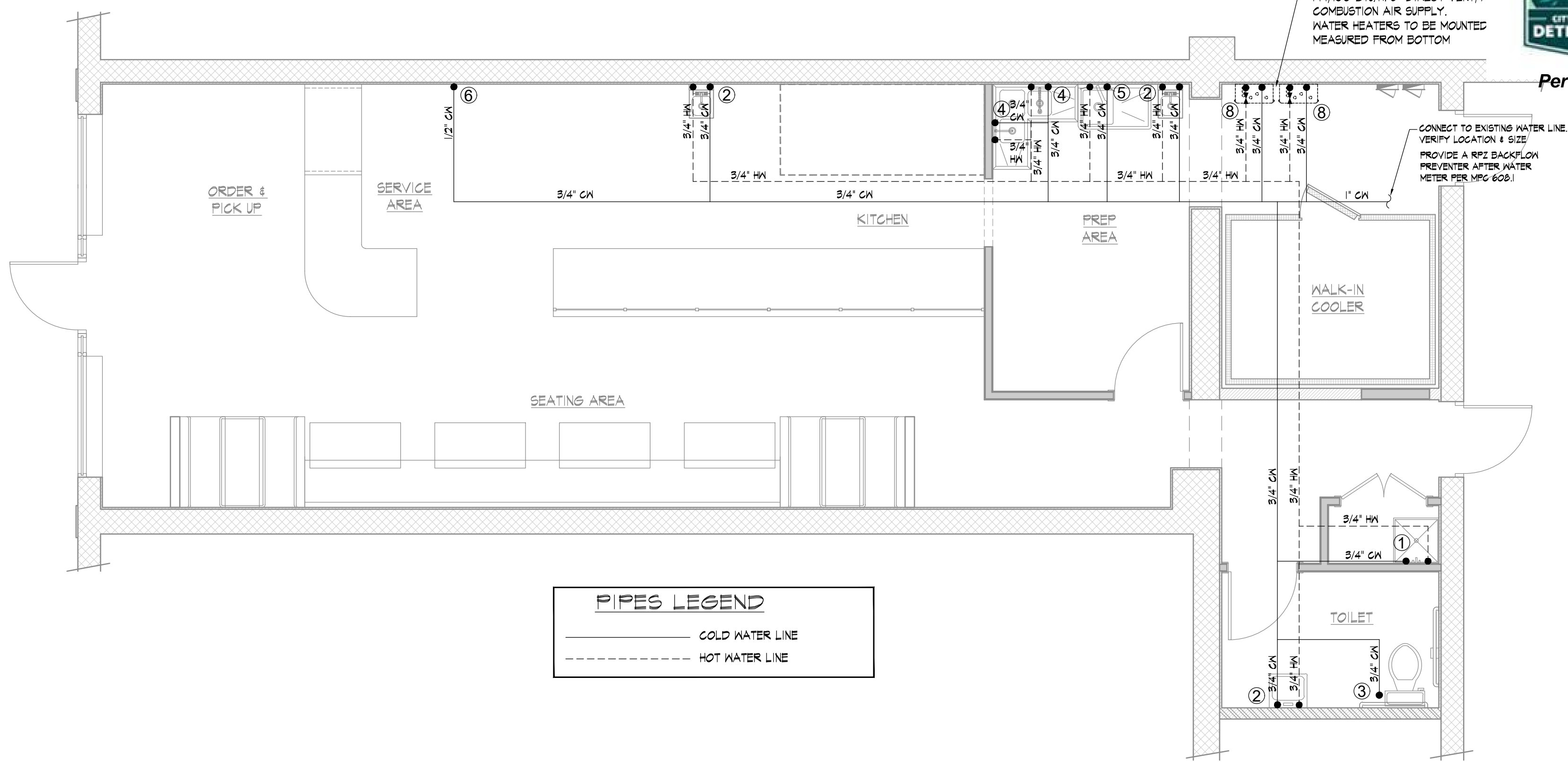


FLOOR DRAIN DE
N.T.S.

PLUMBING CROSS- CONNECTION (BACKFLOW PREVENTION)	
UNIT	BACKFLOW DEVICE
MOP SINK	HB
3-COMPARTMENT SINK	AB
PREP SINK	AB
DISH CLEANING SINK	AB
TOILET (WATER CLOSET)	ASV
WATER METER	RPZ
SYMBOLS:	
HB: HOSE BIB VACUUM BREAKER	
AB: AIR BREAK	
ASV: ANTI SIPHON VALVE	
RPZ: REDUCED PRESSURE ZONE.	

HOT WATER REQUIREMENT				
FIXTURE	QUANTITY	GPM	BTU/KWH	
MOP SINK	1	100	15	15,620
HAND SINKS	3	70	5 EACH = 15	10,944
3-COMPARTMENT SINK	1	100	45	46,856
PREP SINK	1	100	30	31,237
			TOTAL	104,657
NOTES:				
- HOT WATER CALCULATIONS ARE BASED ON 80% THERMAL EFFICIENCY OF COMMERCIAL WATER HEATER.				
- USE (2) TANKLESS WATER HEATERS WALL MOUNT BY AMERICAN MODEL NO. GT-540 NH, 3/4" GAS SUPPLY, 199,900 BTU/H, 3" DIRECT VENT, AND 3" PVC COMBUSTION AIR SUPPLY, 10.0 GPM MAX @ 100 DEG. RISE & 5.7 GPM @ 80DEG. RISE, ASA, UL, & NSF APPROVED.				

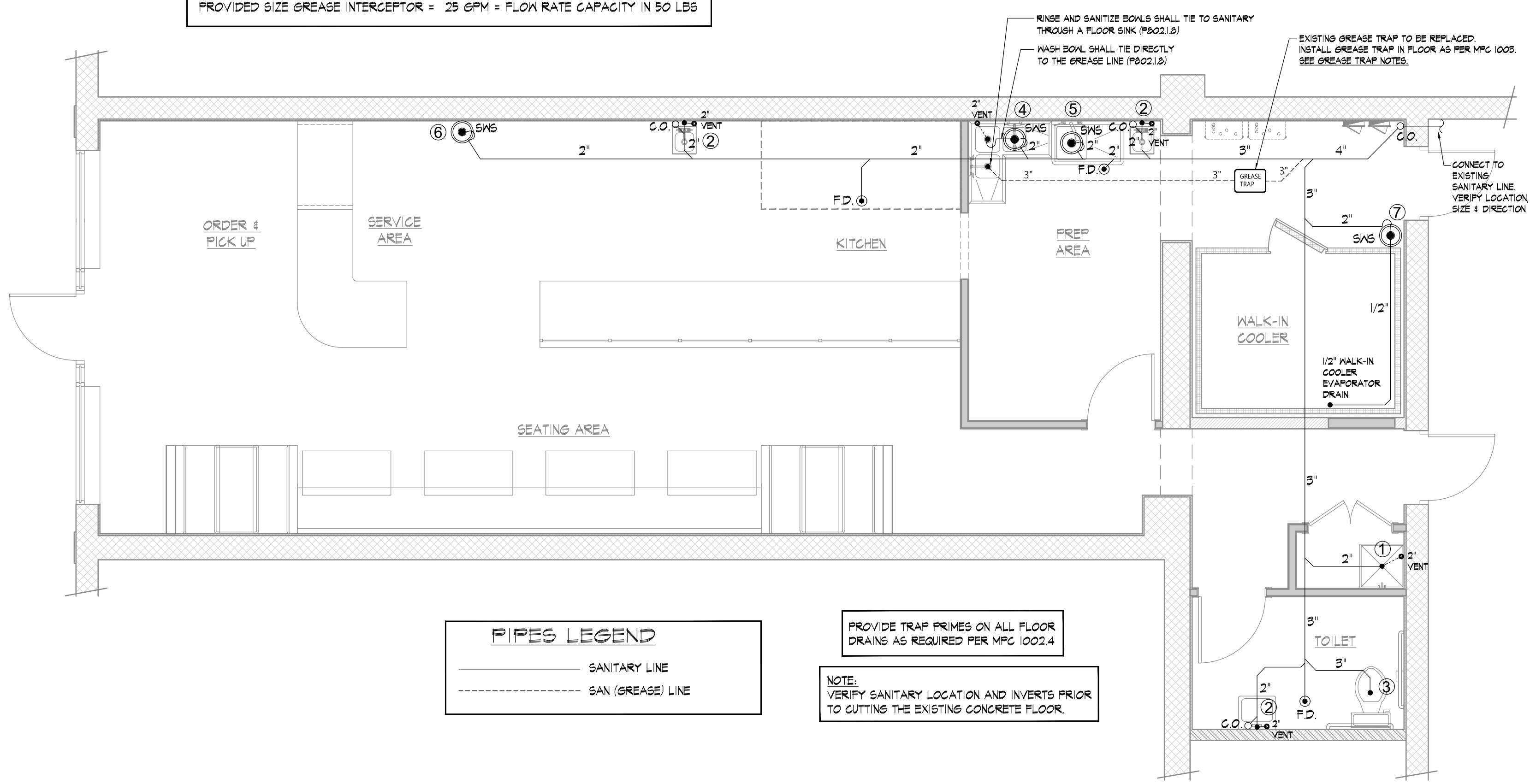
NOTES:	
A	PLUMBER TO PROVIDE BACKFLOW PREVENTERS IN WATER SUPPLY LINES AS REQUIRED BY LOCAL CODES
B	PLUMBER TO SPECIFY AND LOCATE EQUIPMENT AND UTILITIES FOR THESE LOCATIONS.
C	PLUMBER TO CONNECT ALL WATER LINES, GAS LINES, WASTE LINES, ETC. TO FULLY GROUND ALL EQUIPMENT AND RUN CONDENSATE LINES FROM UNITS TO DRAINS AND THESE LINES TO BE NO SMALLER THAN THE STUB-OUT OF THE FUTURE. PLUMBER TO PROVIDE SATE VALVES, CUT-OFFS, TRAPS, HYDROSTATIC SHOCK ELIMINATORS, PRESSURE REGULATORS AND MATERIALS NECESSARY TO CONNECT ALL LINES UNLESS OTHERWISE SPECIFIED IN THE ITEM SPECIFICATIONS. FAUCETS, DRAIN OUTLET FITTINGS, FIXTURES AND SPECIALTY ITEMS ARE TO BE FURNISHED BY THE KITCHEN EQUIPMENT SUPPLIER AS OUTLINED IN THE ITEM SPECIFICATIONS. ALL WORK TO BE PERFORMED IN FULL ACCORDANCE WITH THE APPLICABLE CODES RELATING TO INSTALLATION AND HOOK-UP OF EQUIPMENT. OMISSIONS OR ERRORS ON THE SCHEDULE DO NOT RELIEVE THE PLUMBING CONTRACTOR FROM COMPLETE FINAL PLUMBING RESPONSIBILITY.
D	ALL OUTLETS AND CONNECTIONS SHOWN RELATE TO KITCHEN EQUIPMENT ONLY. REFER TO ARCHITECTURAL/ENGINEERING PLANS FOR ADDITIONAL REQUIREMENTS.
E	ALL DIMENSIONS GIVEN ARE FROM COLUMN CENTERLINES AND/OR FINISHED WALLS AND ARE IN INCHES TO 2'-0". ELEVATIONS GIVEN ARE FROM FINISHED FLOORS. ALL ROUGH-INS SHOWN ARE TO BE RUN INSIDE WALLS (EXCEPT STUB-UPS) LOCATIONS INDICATE POINT OF EXIT FROM WALLS, CEILINGS OR FLOORS.
F	ALL FLOOR DRAINS TO SET 1/2" BELOW FINISHED FLOOR UNLESS OTHERWISE NOTED. DO NOT SLOPE FLOORS SO CLOSE TO DRAINS AS TO CREATE "PITS" OR "DIPS" IN FLOOR. MINIMUM RADIUS OF SLOPE TO BE 24" FROM CENTERLINE OF DRAIN.
G	PLUMBER TO RUN HARD COPPER DRAINLINE HIGH AS POSSIBLE IN WALK-IN VAULT FROM BLOWER COIL TO WALL THEN SLOPING DOWN TO A POINT 18" ABOVE FLOOR THEN THRU WALL FORMING A 18" TRAP FLAT AGAINST WALL ABOVE DRAIN THEN EXTENDING TO DRAINAGE LINES IN A NEAT MANNER AND FINISH WITH CHROMATONE PAINT - SEAL ALL PENETRATIONS.
H	REFER TO P-2 DRAWING FOR TRUNK LINES



ROUGH-IN WATER PIPING PLAN

GREASE INTERCEPTOR CALCULATIONS:
BOWL SIZE = 18" X 18" X 16" = 5184 CUBIC INCHES
5184 C/I / 231 = 22.44 GALLONS PER MINUTE
ADJUSTING FOR DISPLACEMENT: 22.44 X 0.75 = 16.83 GPM
CALCULATE FLOW RATE FOR ONE-MINUTE PERIOD.
REQUIRED FLOW RATE INTERCEPTOR = 17 GPM = FLOW RATE CAPACITY IN LBS = 34
PROVIDED SIZE GREASE INTERCEPTOR = 25 GPM = FLOW RATE CAPACITY IN 50 LBS

GREASE TRAP NOTES:
1. APPROVAL FROM FOR PROPOSED GREASE TRAP NEEDS APPROVAL FROM DPM AND A COPY OF IT BEING APPROVED TURNED INTO THE BUILDING DEPARTMENT.
2. WASH BOWL SHALL TIE DIRECTLY TO THE GREASE LINE (P802.1.8)



ROUGH-IN PLUMBING PLAN



APPROVED

ePLAN

PLAN REVIEW

Buildings, Safety Engineering
& Environmental Department

Date: 10/30/2024

Permit Number: BLD2024-01878



MA ARCHMASTER

Residential & Commercial Designs

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PROJECT:

MY BIG FAT SHAWARMA

ADDRESS:

4704 ANTHONY WAYNE DR. DETROIT, MI 48201

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REVISIONS:

	10/18/2024

DATE:

08/26/2024

DRAWN BY:

MONIEER ALAHWAL

SCALE:

AS NOTED

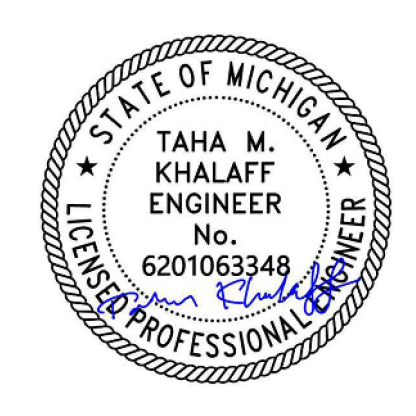
SHEET TITLE:

- ROUGH-IN PLUMBING PLAN

SHEET #:

P-1

APPROVED BY:



TAHAR M. KHALAFF
ENGINEER
No. 6201063348
LOUISIANA PROFESSIONAL ENGINEER

WALK-IN COOLER SPECIFICATIONS WILL BE PROVIDED (BY OTHER)

WALK-IN COOLER & WALK-IN FREEZER NOTES:

MICHIGAN ENERGY CODE 2015 & ASHRAE 90.1-2013 SECT.6.4.5

A. (WALK-INS) SHALL BE EQUIPPED WITH AUTOMATIC DOOR CLOSERS TO CLOSE WITH-IN 1" OF FULL CLOSURE EXCEPT DOORS WIDER THAN 3'4" & TALLER THAN 7'. MICHIGAN ENERGY CODE 2015 7 ASHRAE 90.1-2013 SECT. 6.4.5 (A)

B. DOORS SHALL HAVE STRIP (CURTAIN) DOORS, SPRING HINGED DOORS OR OTHER METHODS OF MINIMIZING INFILTRATION WHEN DOORS ARE OPEN. MICHIGAN ENERGY CODE 2015 7 ASHRAE 90.1-2013 SECT. 6.4.5 (B)

C. WALK-IN COOLER SHALL HAVE MINIMUM R-25 WALL, CEILING & DOOR INSULATION. WALK-IN FREEZERS SHALL HAVE MINIMUM OF R-52 WALL, CEILING & DOOR INSULATION. EXCEPTION: GLAZING IN DOORS & STRUCTURAL MEMBERS. MICHIGAN ENERGY CODE 2015 7 ASHRAE 90.1-2013 SECT. 6.4.5 (C)

D. WALK-IN FREEZER FLOORS REQUIRE MINIMUM OF R-28. MICHIGAN ENERGY CODE 2015 7 ASHRAE 90.1-2013 SECT. 6.4.5 (D)

E. EVAPORATOR FAN MOTORS LESS THAN 1HP & LESS THAN 460 VOLT SHALL USE ECM MOTORS (ELECTRICALLY COMMUTATED MOTORS) (BRUSHLESS DIRECT-CURRENT MOTORS). MICHIGAN ENERGY CODE 2015 7 ASHRAE 90.1-2013 SECT. 6.4.5 (E)

F. LIGHT SHALL USE LIGHTS WITH AN EFFICACY OF 40 LM/W OR MORE INCLUDING BALLAST LOSSES. LIGHTS WITH AN EFFICACY LESS THAN 40 LM/W INCLUDING BALLAST LOSSES MAY BE USED WITH A TIMER OR DEVICE THAT TURNS OFF THE LIGHTS WITHIN 15 MINUTES OF WHEN THE WALK-IN COOLER/FREEZER IS NOT OCCUPIED. MICHIGAN ENERGY CODE 2015 7 ASHRAE 90.1-2013 SECT. 6.4.5 (F)

G. TRANSPARENT REACH-IN DOORS FOR WALK-IN FREEZERS, AND WINDOWS IN IN WALK-IN FREEZER DOORS SHALL BE TRIPLE PANE OR DOUBLE PANE WITH REFLECTIVE GLASS FILLED WITH AN INERT GAS OR HEAT -REFLECTIVE GLASS. MICHIGAN ENERGY CODE 2015 & ASHRAE 90.1-2013 SECT. 6.4.5 (G)

H. TRANSPARENT REACH-IN DOORS FOR WALK-IN COOLERS, AND WINDOWS IN IN WALK-IN COOLERS DOORS SHALL BE DOUBLE-PANE WITH HEAT TREATED REFLECTIVE GLASS AND GAS FILLED OR TRIPLE-PANE FILLED WITH AN INERT GAS OR HEAT-REFLECTIVE TREATED GLASS. MICHIGAN ENERGY CODE 2015 & ASHRAE 90.1-2013 SECT. 6.4.5 (H)

I. ANTISNEAT HEATER WITH-OUT ANTISNEAT HEATER CONTROLS SHALL HAVE A TOTAL DOOR RAIL, GLASS AND FRAME HEATER POWER DRAW OF <= 7.1 W/SQ. FT. FOR DOOR OPENINGS FOR WALK-IN FREEZERS AND <=3.0 W/SQ. OF DOOR OPENING FOR WALK-IN COOLERS. MICHIGAN ENERGY CODE 2015 & ASHRAE 90.1-2013 SECT. 6.4.5 (I)

J. ANTISNEAT HEATER CONTROLS SHALL REDUCE ENERGY USE AS A FUNCTION OF RELATIVE HUMIDITY OUTSIDE THE DOOR OR TO THE CONDENSATION ON THE GLASS. MICHIGAN ENERGY CODE 2015 7 ASHRAE 90.1-2013 SECT. 6.4.5 (J)

K. CONDENSER FAN MOTORS LESS THAN 1 HP SHALL USE ECM OR SPLIT CAPACITOR, OR 3 PHASE TYPE MOTORS. MICHIGAN ENERGY CODE 2015 & ASHRAE 90.1-2013 SECT. 6.4.5 (K)

L. ALL WALK-IN FREEZERS SHALL INCORPORATE TEMPERATURE BASED DEFROST TERMINATION CONTROL WITH TIME LIMIT. DEFAULT, THE DEFROST CYCLE SHALL TERMINATE FIRST ON TEMPERATURE LIMIT BREACH AND SECOND ON TIME LIMIT BREACH. EXCEPTION: WALK-IN COOLER / FREEZER COMBINATION GREATER THAN 3,000 SQ. FT.. MICHIGAN ENERGY CODE 2015 & ASHRAE 90.1-2013 SECT. 6.4.5 (L)

TOILETS EXHAUST FANS PERFORMANCE:

DELTABREEZ 15 CFM;
PRODUCT HEIGHT (IN.) 4.76
PRODUCT LENGTH (IN.) 10.75
PRODUCT WIDTH (IN.) 9.375
AIR VOLUME (CFM) 10
DUCT COMPATIBLE SIZES 3 IN
FAN SOUND LEVEL (SONES) 2.0
PRODUCT WEIGHT (LB.) 6LB
VOLTAGE (VOLTS) 120
AMPERAGE (AMPS) 0.24
WATTAGE (WATTS) 13

RTU PERFORMANCE:

DAIKIN - DF60903DH, PACKAGED GAS/ELEC. ROOFTOP UNIT SHALL BE DOWNFLOW TYPE COMPLETE WITH FACTORY MADE ROOF CURB.

COOLING CAPACITY	7.5 TON NOMINAL / 86,000 BTU
HEATING CAPACITY	INPUT- 225,000 BTU
AIR DELIVERY	MAX. 3,020 CFM
VOLTAGE / PHASE	208/230V-3 PHASE-60HZ
AMPS	41.6

DIRECT DRIVE GAS-FIRED HEATED MAKE UP AIR UNIT - 2,000 CFM
MODEL:VD-VID-DFHMU-2000

- SUPPLY FAN HANDLES 2000 CFM @ 0.451" WC ESP. FAN RUNS AT 2020 RPM.
- HEATER SUPPLIES 117517 BTUS, 55°F TEMPERATURE RISE. [FUEL: NATURAL GAS]
- SUPPLY MOTOR: 2,000 HP, 3 PHASE, 208 V, 60HZ, 6.1 FLA, ODP, PREMIUM (E-PLUS3) EFF.
- DOWN DISCHARGE - AIR FLOW RIGHT -> LEFT

200/240 V, SINGLE OR THREE PHASE INPUT *AVAILABLE, PLEASE CALL FOR 1 PHASE INPUT

CONSTRUCTION FEATURES:

- SLOPED FILTERED INTAKE FOR SIZE #1 MODULAR HEATER, 21.813" WIDE X 44.375" LONG X 23.375" HIGH.
- INCLUDES 3 MV EZ KLEEN METAL MESH FILTER, 16"X 20"X 2"
- RTC SOLUTIONS *40-90°F DISCHARGE TEMP CONTROL
- GAS MANIFOLD FOR DFI GM - BTU 0 - 550001 - 7 IN. W.C. - 14 IN. W.C., NO INSURANCE REQUIREMENT (ANSI), BV250-66
- MOTORIZED BACK DRAFT DAMPER 16" X 18" FOR SIZE 1 STANDARD & MODULAR HEATER UNITS W/EXTENDED SHAFT, STANDARD GALVANIZED CONSTRUCTION, 3/4" REAR FLANGE, LOW LEAKAGE, TFB1205 ACTUATOR INCLUDED
- LOW FIRE START: ALLOWS THE BURNER CIRCUIT TO ENERGIZE WHEN THE MODULATION CONTROL IS IN A LOW FIRE POSITION.
- GAS PRESSURE GAUGE, 0-35", 2.5" DIAMETER, 1/4" THREAD SIZE
- GAS PRESSURE GAUGE, -5 TO +15 INCHES WC, 2.5" DIAMETER, 1/4" THREAD SIZE
- CURB CRB21X12X20INS INSULATED ON FAN # 1 FLAT CURB
- VAV (VARIABLE-AIR-VOLUME) WIRING PACKAGE FOR COMMERCIAL FANS, MANUAL SPEED CONTROL VARIABLE FREQUENCY DRIVE INCLUDED
- SUPPLY VARIABLE FREQUENCY DRIVE - 2 HP MAX., 200/240 V, SINGLE OR THREE PHASE INPUT, T.O. A MAX., NEMA 1 ENCLOSURE

GAS SCHEDULE

#	ITEM DESCRIPTION	SIZE @ A.F.F.	BTU/H	REMARKS
(61)	PITCO - GAS FRYER (107,000 BTU/H EACH)	3/4" @ 18" A.F.F.	214,000	STUB OUT OF WALL
(62)	48" 4-BURNER COUNTERTOP GRIDDLE	3/4" @ 18" A.F.F.	120,000	STUB OUT OF WALL
(63)	GAS RICE COOKERS	3/4" @ 18" A.F.F.	34,600	STUB OUT OF WALL
(64)	(2) TANKLESS GAS WATER HEATER (199,900 BTU/H EACH)	3/4" @ 84" A.F.F.	399,800	VERIFY
(65)	RTU	3/4" ON ROOF	225,000	VERIFY
(66)	MAU	3/4" ON ROOF	117,517	VERIFY
TOTAL BTUs			1,110,917	

2 1/2" MIN. GAS LINE (VERIFY EXISTING LINE SIZE AND LOCATION)

NOTE: OWNER TO CONTACT NATURAL GAS SUPPLIER TO VERIFY CAPACITY OF EXISTING GAS METER TO MEET NEW REQUIREMENT.

GAS LINE & GAS METER NOTES:

- CONTRACTOR TO VERIFY LOCATION OF GAS METER AT JOB SITE.
- SIZE THE NEW GAS LINE AS PER FUEL GAS CODE, SECTION 402.
- OWNER TO CONTACT UTILITY COMPANY TO VERIFY CAPACITY OF THE EXISTING GAS METER AND/OR UPGRADE OR INSTALL NEW METER IF NEEDED.

OCCUPANCY CALCULATIONS:

ORDER & PICK UP AREA:	(15 GROSS/PERSON)	= 45 SQ. FT./15	= 3 OCCUPANTS
SEATING AREA:	(15 NET/PERSON)	= 150 SQ. FT./15	= 10 OCCUPANTS
KITCHEN & SERVICE AREA	(200 GROSS/PERSON)	= 200 SQ. FT./200	= 1 OCCUPANTS
PREP AREA:	(200 GROSS/PERSON)	= 200 SQ. FT./200	= 1 OCCUPANTS
TOTAL OCCUPANT LOAD			= 15 OCCUPANTS

CALCULATED OUTDOOR VENTILATION AIRFLOW RATE

AREA: Voz = Rp Pz + Ra Az
OCCUPANT LOAD: Pz = 15 PERSON
NET OCCUPIED USABLE AREA = 1,080 SQ.FT.

Voz = (7.5X15) + (0.18X1,080) = 112.5 + 194.4
Voz = 307 CFM
Ez = 2 ZONE EFF. FACTOR: 0.8
Voz = 307/0.8 = 384 CFM

FRESH AIR REQUIRED= 384 CFM

MINIMUM FRESH AIR SHALL BE PROVIDED FROM RTU = 400 CFM

REQUIRED EXHAUST AIRFLOW RATE FOR KITCHEN AREA

NET OCCUPIED/ USABLE AREA (Az) = 200 S.F.
EXHAUST AIR FLOW RATE (a) = 0.75/SF
EXHAUST AIR REQUIRED = 200 X 0.75 = 150 CFM
EXHAUST AIR PROVIDED = 2,000 CFM

NOTE:
PERMANENT FALL ARREST/RESTRAINT ANCHORAGE CONNECTOR DEVICES SHALL BE PROVIDED AND ARE AFFIXED FOR USE DURING THE ENTIRE LIFETIME OF THE ROOF COVERING. THE DEVICES SHALL BE RE-EVALUATED FOR POSSIBLE REPLACEMENT WHEN THE ENTIRE ROOF COVERING IS REPLACED. THE DEVICES SHALL BE PLACED NOT MORE THAN 10 FEET ON CENTER ALONG HIP AND RIDGE LINES AND PLACED NOT LESS THAN 10 FEET FROM ROOF EDGES AND THE OPEN SIDES OF WALKING SURFACES.

NOTE:
CONTRACTOR SHALL CLOSE, REPAIR, AND SEAL ALL UNUSED OPENINGS ON THE EXISTING ROOF.

NOTE:
AIR BALANCE TEST W/ REPORT TO BE PERFORMED AND PROVIDED BY A THIRD PARTY LICENSED MECHANICAL ENGINEER.

NOTE:
STRUCTURAL CONTRACTOR/OWNER TO REINFORCED EXISTING ROOF STRUCTURE FOR EXPECTED WEIGHT OF NEW EQUIPMENT AND SUPPLY SOUND AND VIBRATION DEADENING AS REQUIRED.

SYMBOL LEGEND

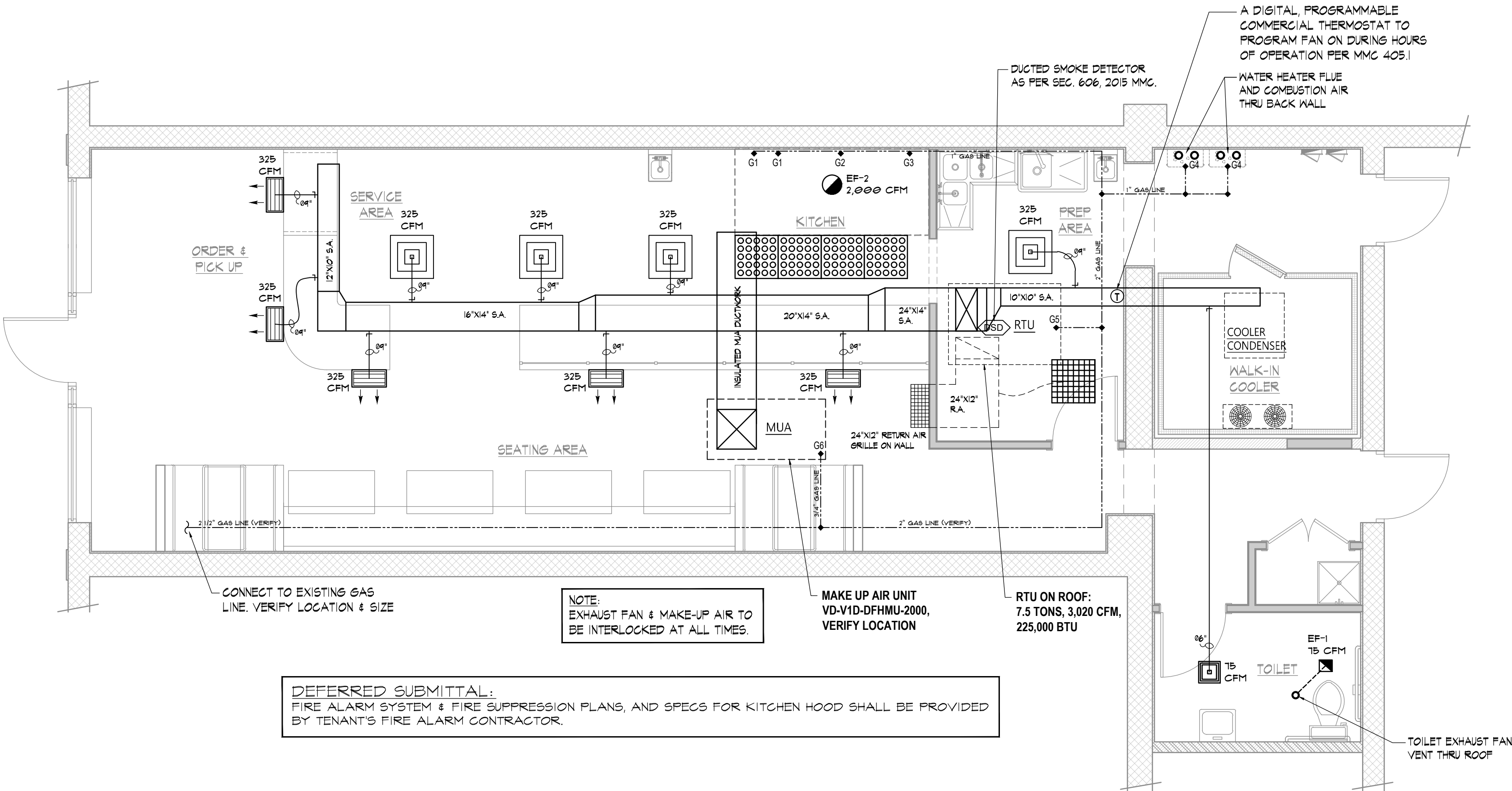
24"X24" 10"X20" 12"X12" 4-WAYS LAY-IN SUPPLY AIR HVAC DIFFUSER

24"X24" 12"X24" RETURN AIR GRILLE

2'X2' M.A.U. AIR SUPPLY DIFFUSER

KITCHEN HOOD EXHAUST FAN 2,000 CFM

15 CFM, TOILET EXHAUST FAN



REVISIONS:

	10/18/2024

DATE: 08/26/2024

DRAWN BY: MONEER ALAHWAL

SCALE: AS NOTED

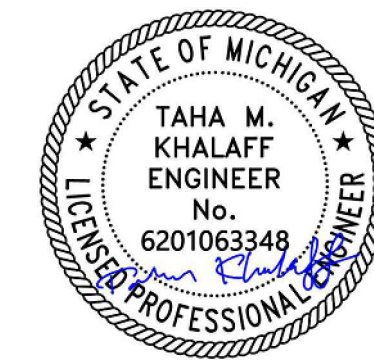
SHEET TITLE:

- MECHANICAL/HVAC PLAN

SHEET #:

M-1

APPROVED BY:



VENTILATION-HVAC NOTES

1. HVAC SYSTEM CONSTRUCTION AND MATERIAL SHALL COMPLY WITH THE LATEST STATE OF MICHIGAN AND LOCAL MECHANICAL CODES.
2. HVAC CONTRACTOR SHALL SUPPLY ROOF CURBS FOR ALL ROOF TO EQUIPMENT AND LOCATE AT ROOF (CUTTING, FRAMING AND FLASHING BY ROOF CONTRACTOR AFTER APPROVAL FROM A STRUCTURAL ENGINEER, OWNER, AND LOCAL ORDINANCE.
3. TERMINATE EXHAUST FAN 40" MINIMUM ABOVE ROOF OR 12" ABOVE ANY PARAPET WALL WITHIN 10 FEET.
4. KEEP FRESH AIR INTAKES 10' HORIZONTAL OR 3' VERTICAL FROM FANS, VENTS OR FLUES.
5. ALL PERMITS TO BE PULLED IN ADVANCE.
6. PERFORM AIR BALANCE WITH TEST W/ REPORT.

- * ALL EQUIPMENT AND COMPONENT PERFORMANCE INFORMATION FOR THE HEATING, VENTILATING AND AIR CONDITIONING SYSTEMS MUST MEET THE STANDARD EFFICIENCY UTILIZATION OF ENERGY IN ACCORDANCE WITH THE 2015 INTERNATIONAL ENERGY CONSERVATION CODE. PLEASE NOTE THAT A REVIEW IN FINAL APPROVAL OF THE ENERGY CODE PROVISION IS SUBJECT TO THE BUILDING OFFICIAL. (301.1)
- * ALL MECHANICAL EQUIPMENT MUST BE LABELED AND INSTALLED IN ACCORDANCE WITH THE MANUFACTURERS INSTALLATION INSTRUCTIONS. PROVIDE VERIFICATION THAT THE INSTRUCTIONS WILL BE AVAILABLE AT THE JOB SITE. SPECIFY THE APPLICABLE STANDARD FOR EACH PIECE OF EQUIPMENT SUCH AS THE GAS-FIRED ROOF TOP UNITS AND GAS-FIRED WATER HEATER. FOR EXAMPLE, THE GAS-FIRED WATER HEATER MUST BE SPECIFIED TO CONFORM WITH ANSI Z21.10.1 AND ANSI Z21.10.3. PLEASE NOTE THAT ONLY THE BUILDING OFFICIAL HAS THE AUTHORITY TO WAIVE THE INFORMATION REQUESTED HEREIN TO BE ON THE CONSTRUCTION DOCUMENTS AND APPROVE THE APPROPRIATE LABELS DURING A FIELD INSPECTION. (106.3, 301.3, 301.4, 301.5, 306, 1003, 1101.2, IFGC 617, 623)
- * INDICATE THE HORIZONTAL AND VERTICAL PIPING SUPPORT REQUIREMENTS FOR THE GAS PIPING. (IFGC 415.1)
- * ALL CONDENSATE DRAINAGE SYSTEMS SERVING THE ROOF TOP UNITS MUST BE INSTALL AS TO MANUFACTORY SPECIFICATIONS
- * (IF REQUIRED) PROVIDE SMOKE DETECTORS LISTED AND LABELED FOR INSTALLATION IN AIR DISTRIBUTION SYSTEMS, AS PER SECTION 606 MMC 2015. DUCT SMOKE DETECTORS SHALL COMPLY WITH UL 268A. OTHER SMOKE DETECTORS SHALL COMPLY WITH UL 268.

MECHANICAL NOTES:

1. ALL WORK SHALL BE IN ACCORDANCE WITH THE "AMERICAN SOCIETY OF HEATING, REFRIGERATION AND AIR CONDITIONING ENGINEERS".
2. CONTRACTOR IS TO CLEAN ALL FIXTURES THAT ARE TO REMAIN AND REMOVE DIRT FROM ALL DUCTWORK.
3. CONTRACTOR IS TO ASSURE THAT THE VENTILATION SYSTEM WILL BE RENOVATED TO A FULLY OPERATIONAL CONDITION. ALL CONTROLS ARE TO BE FUNCTIONAL AND THE SYSTEM WILL BE COMPLETE.
4. CONTRACTOR IS TO BALANCE THE VENTILATION SYSTEM IN ALL WORK AREAS TO ASSURE UNIFORM, AND ACCEPTABLE, LEVELS OF SUPPLY AND RETURN AIR.
5. ALL WORK IS TO DONE BY A LICENSED MECHANICAL CONTRACTOR WHO WILL BE RESPONSIBLE FOR ALL PERMITS AND INSPECTIONS RELATED TO THE MECHANICAL WORK.
6. PIPING SUPPORT SHALL COMPLY WITH MSS SP-58.

PACKAGED ROOFTOP GAS/ELEC. AIR CONDITIONER UNIT:

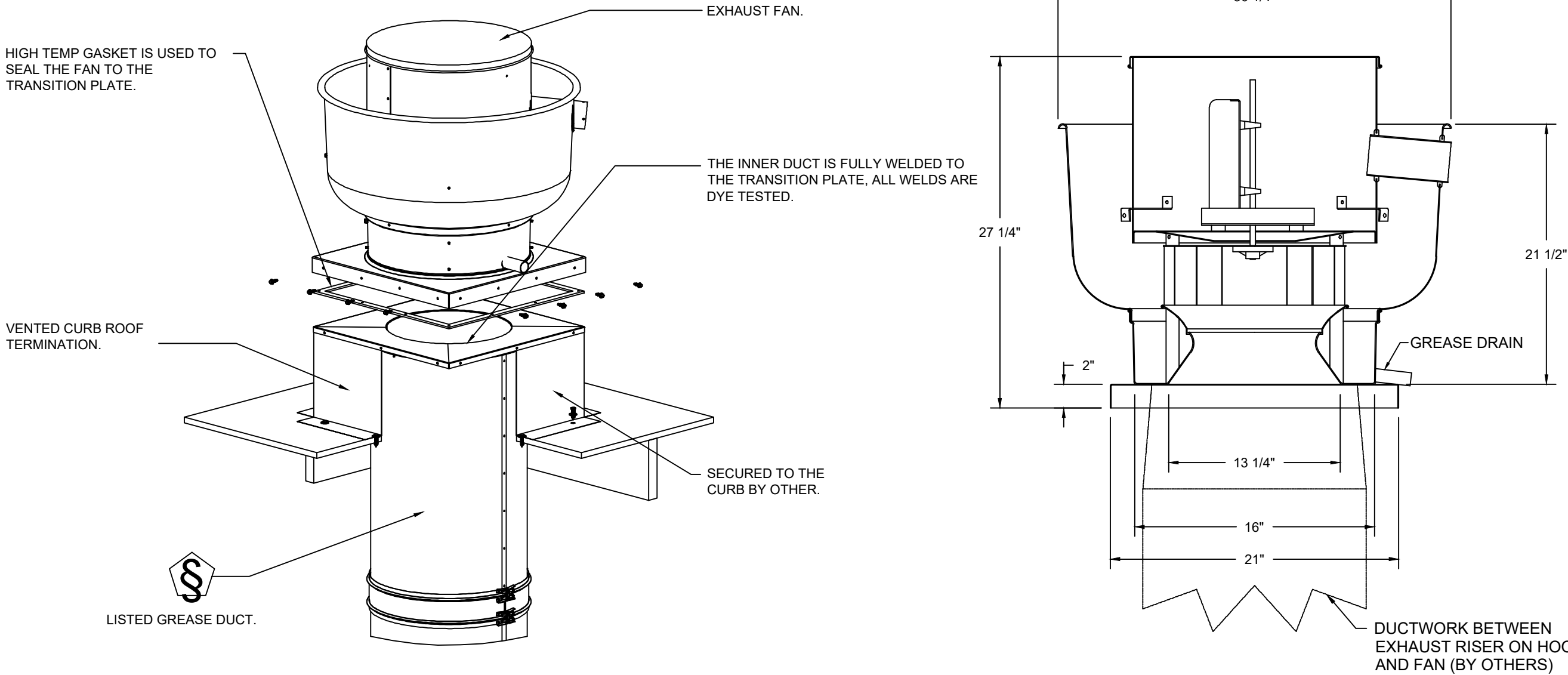
- THE UNIT SHALL BE FACTORY ASSEMBLED INTERNALLY WIRED, FULLY CHARGED WITH REFRIGERANT AND 100 PERCENT RUN TESTED TO CHECK COOLING OPERATION, FAN AND BLOWER ROTATION AND CONTROL SEQUENCE BEFORE LEAVING THE FACTORY.
- UNIT SHALL BE UL LISTED AND SEALED, CLASSIFIED IN ACCORDANCE TO UL 1995/CAN/CSA NO. 236-M90 FOR CENTRAL COOLING AIR CONDITIONERS.
- UNIT CASTING SHALL BE CONSTRUCTED OF ZINC COATED, HEAVY GAUGE, GALVANIZED STEEL.
- THE ROOF TOP UNIT SHALL INCLUDE A FULLY MODULATED 0-100 PERCENT MOTOR AND DAMPERS, BAROMETRIC RELIEF, MINIMUM POSITION SETTING, PRESET LINKAGE, FIXED DRY BULB AND SPRING RETURN ACTUATOR.
- FILTERS SHALL BE TWO INCH THROWAWAY TYPE.
- COMPRESSOR SHALL BE DIRECT DRIVE, HERMETIC, SCROLL TYPE COMPRESSORS WITH CENTERFUGAL OIL PUMPS, MOTOR SHALL BE SUCTION GAS-COOLED.
- REFRIGERANT CIRCUITS SHALL HAVE THERMAL EXPANSION VALVES AS STANDARD. SERVICE PRESSURE PORTS, REFRIGERANT LINE FILTER DRIERS AND LOW AND HIGH PRESSURE CONTROLS SHALL BE FACTORY INSTALLED.
- EVAPORATOR AND CONDENSER COILS SHALL BE INTERNALLY FINNED, 5/16" COPPER TUBES MECHANICALLY BONDED TO A CONFIGURED ALUMINUM PLATE FIN COILS SHALL BE LEAK TESTED TO 200 PSIG & PRESSURED TESTED TO 450 PSIG.
- THE OUTDOOR FAN SHALL BE DIRECT DRIVE, STATICALLY AND DYNAMICALLY BALANCED, THE FAN MOTOR SHALL BE PERMANENTLY LUBRICATED AND SHALL HAVE BUILT-IN THERMAL OVELOAD PROTECTION.
- THE INDOOR FAN SHALL HAVE BELT DRIVE MOTOR WITH AN ADJUSTABLE IDLER-ARM ASSEMBLY FOR QUICK ADJUSTMENT TO FAN BELT AND MOTOR SHEAVES.
- THE MOTOR SHALL BE THERMALLY PROTECTED.

DUCT WORK GENERAL NOTES

1. BRANCH TAKE-OFF FITTING HAVE A LETTER DESIGNATION AND ARE SHOWN PLAN VIEWS.
2. ALL JOINTS, CORNERS AND SEAMS TO BE FULLY SEALED WITH SMACNA APPROVED OUTWORK SEALANT.
3. ALL DUCTWORK IS TO BE LEAK TESTED AT PRESSURES SPECIFIED.
4. ALL DUCTWORK ELBOWS SHALL HAVE MINIMUM 1.5 CENTERLINE RADIUS.
5. USE METERED ELBOW WITH TURNING VANES WHEN CENTERLINE RADIUS IS LESS THAN 1.5.
6. ALL EXHAUST DUCT WORK MUST BE DOUBLE WRAPPED ENTIRELY AS PER CODE.
7. AN AIR BALANCE REPORT WILL BE PROVIDED PRIOR TO FINAL INSPECTION.

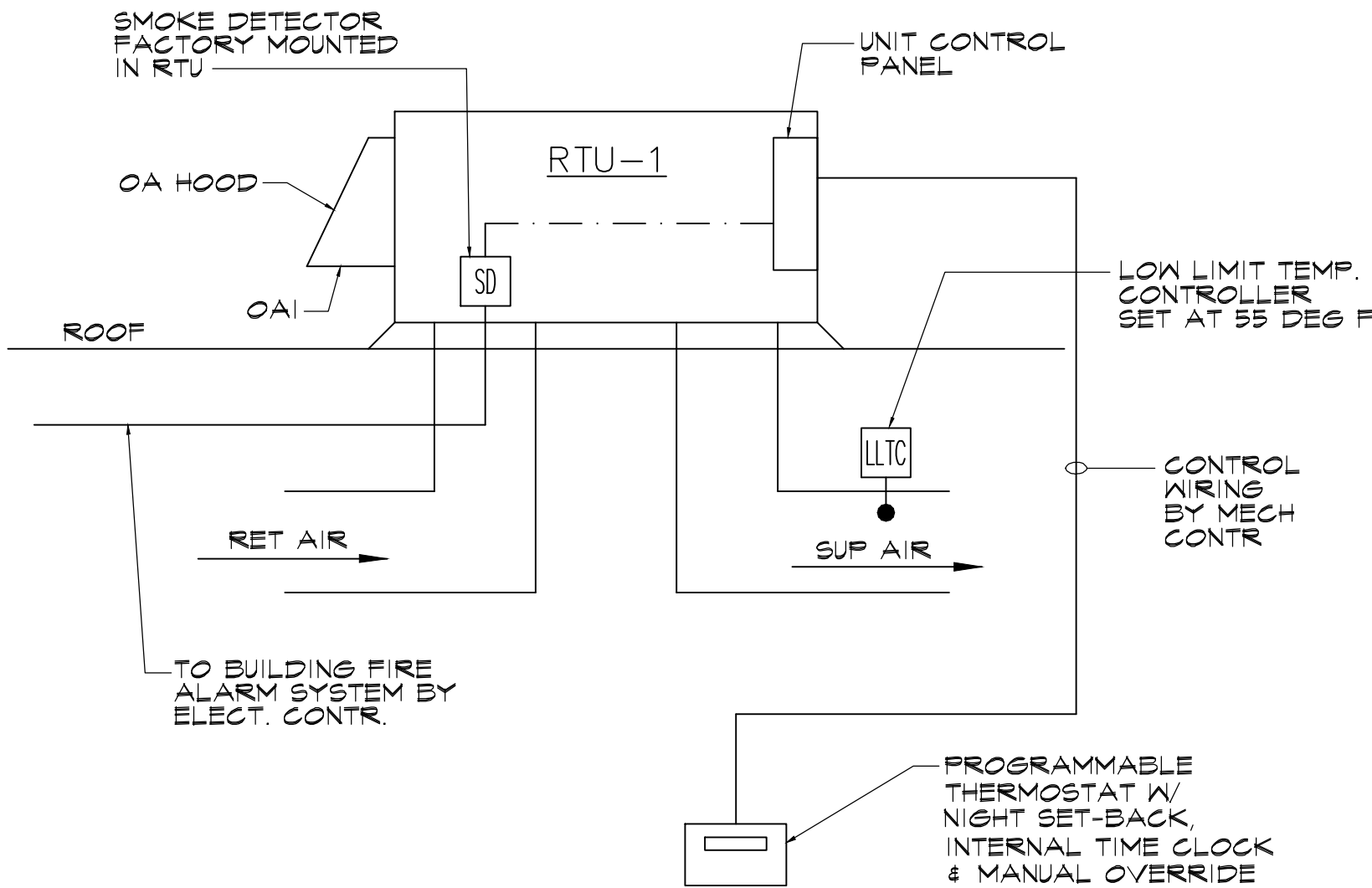
DUCTSHAFT NOTES

1. DUCTSHAFT MUST BE CONSTRUCTED IN ACCORDANCE WITH THE CURRENT EDITION OF NFPA CODE #96, MBC.
2. SHAFT MUST EXTEND TO THE BOTTOM OF THE CEILING/(FLOOR OR ROOF) ASSEMBLY AND THE TOP OF THE ROOF/CEILING ASSEMBLY.
3. SHAFT MUST BE FIRE SEALED TO BUILDING, 6" MINIMUM CLEARANCE BETWEEN SHAFT AND DUCT.
4. SHAFT TO BE CONSTRUCTED OF MINIMUM 2x4 STUDS @ 16" O.C. W/ 2 LAYERS OF TYPE 'X' FIRE RATED GYP. BRD. ON BOTH SIDES, 2-HR. FIRE RATED REQUIRED.
5. DUCT CLEANOUT DOORS AND SHAFT CLEANOUT ACCESS DOORS (IF REQUIRED) TO BE UL-LISTED.
6. DUCT FIRE DAMPER TO BE INSTALLED WHERE SHAFT PENETRATES FIRE RATED FLOOR OR ROOF ASSEMBLY. DAMPERS TO BE INSTALLED PER MANUFACTURER'S INSTRUCTIONS.
7. DUCT SHAFT MUST BE 2-HR. FIRE RATED AND SEALED WHERE DUCT PENETRATES CEILING/(FLOOR OR ROOF) ASSEMBLY(IES).



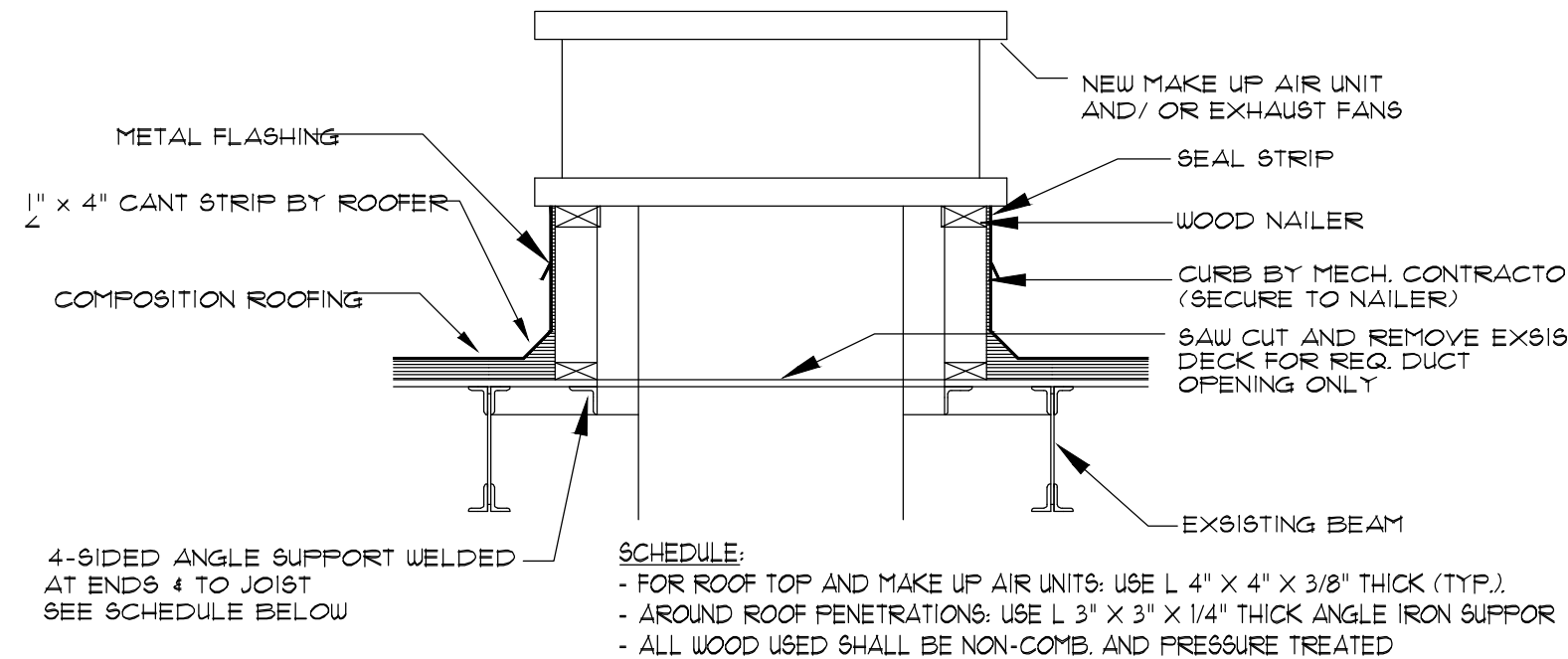
GREASE DUCT & CHIMNEY SPECIFICATIONS:
PROVIDE GREASE DUCT EQUAL TO A.D.M. AIR CONTROL MODEL "DW" ROUND 20 GAUGE 430 STAINLESS STEEL DUCTWORK. MODEL "DW" IS LISTED TO UL-1978 AND IS INSTALLED USING "V" CLAMP LOCKING CONNECTIONS SEALED WITH 3M FIRE BARRIER 2000 PLUS. MODEL "DW" DOES NOT REQUIRE WELDING PROVIDING IT HAS BEEN INSTALLED PER THE MANUFACTURES INSTALLATION GUIDE.
PROVIDE RATED ACCESS DOORS AT EVERY CHANGE IN DIRECTION AND EVERY 12' ON CENTER. PER MANUFACTURES LISTING MODEL "DW" HORIZONTAL RUNS LESS THAN 75 FT. CAN BE SLOPED 1/16" PER 12", HORIZONTAL RUNS MORE THAN 75 FT. CAN BE SLOPED 3/16" PER 12". DUCT SHOULD BE SLOPED AS MUCH AS POSSIBLE TO REDUCE THE CHANCE OF GREASE ACCUMULATION IN HORIZONTAL RUNS.

IF THE DUCT OR CHIMNEY IS WITHIN 18 INCHES OF COMBUSTIBLE MATERIAL, PROVIDE UL-2221 OR UL-103 HT LISTED DOUBLE WALL GREASE DUCT OR DOUBLE WALL CHIMNEY EQUAL TO A.D.M. AIR CONTROL MODEL "DW-2R, 2R TYPE HT, 3R, OR 3Z" ROUND 20 GAUGE 430 STAINLESS INNER DUCT INSULATED WITH A 24 GAUGE 430 STAINLESS OUTER SHELL.



SCHEMATIC TEMPERATURE CONTROL DIAGRAM FOR RTU

N.T.S.



ROOF PENETRATION, SUPPORT AND CURB FLASHING DETAIL

N.T.S.

HOOD EXHAUST FAN - NCA10FA

FEATURES:

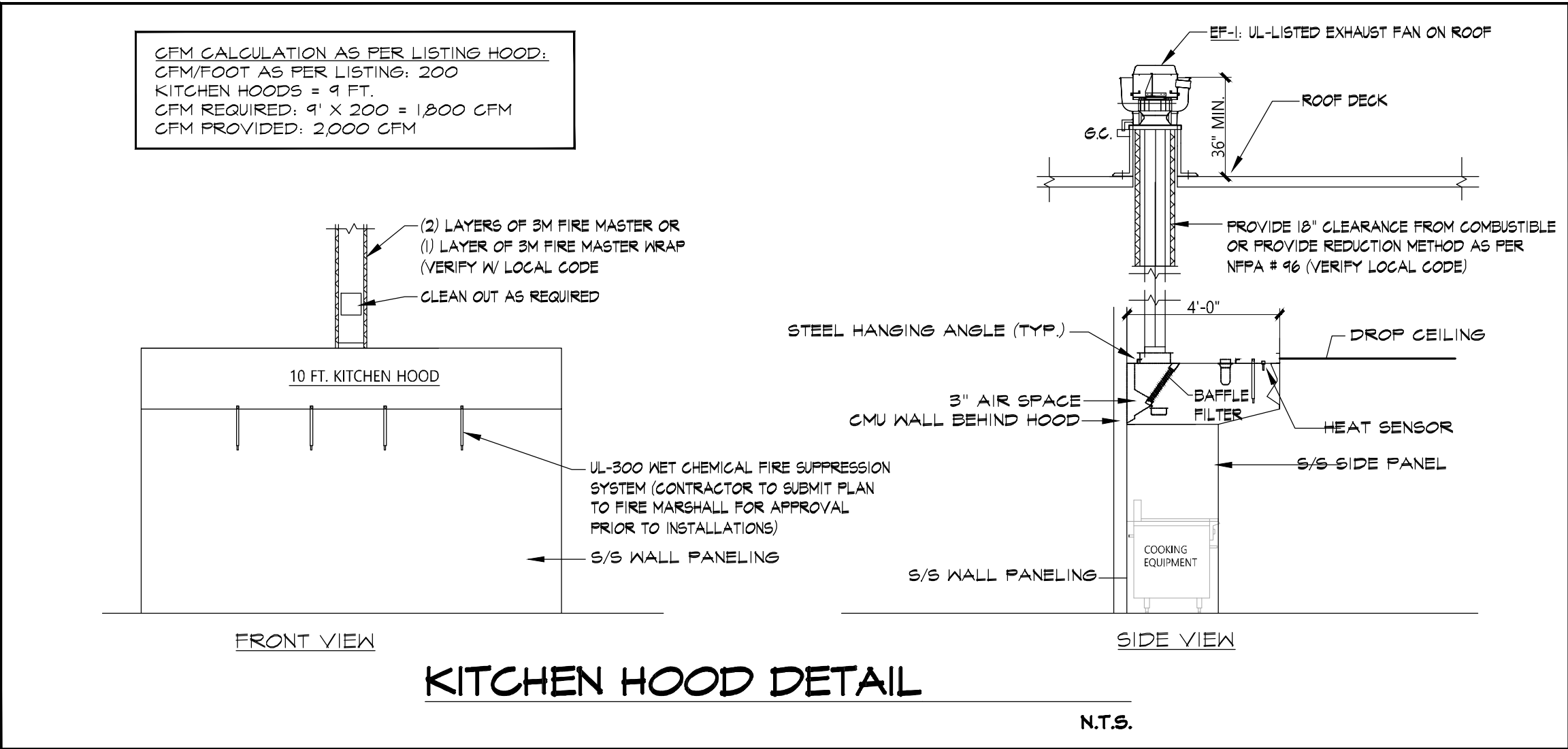
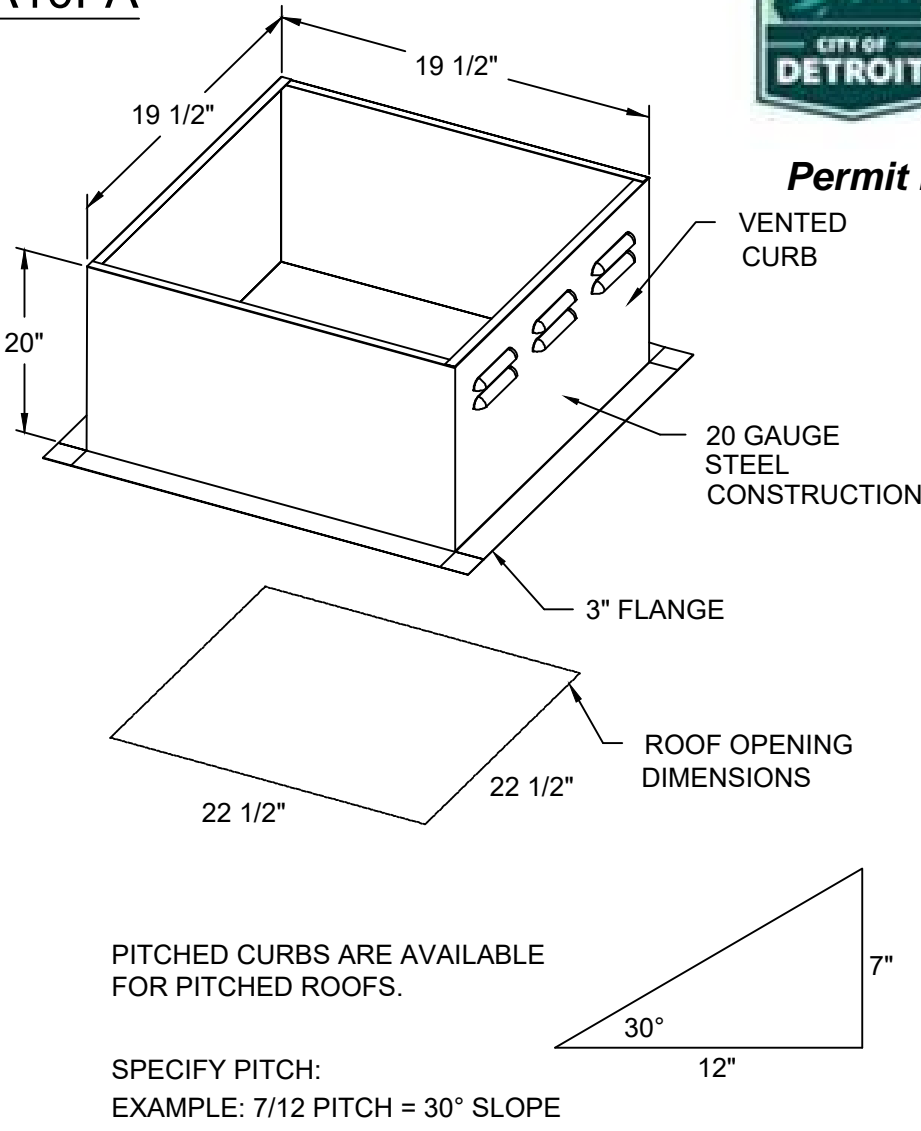
- ROOF MOUNTED FANS
- RESTAURANT MODEL
- UL705 AND UL762 AND ULC-S645
- AMCA SOUND AND AIR CERTIFIED
- WIRING FROM MOTOR TO DISCONNECT SWITCH
- WEATHERPROOF DISCONNECT
- HIGH HEAT OPERATION 300°F (149°C)
- GREASE CLASSIFICATION TESTING

NORMAL TEMPERATURE TEST
EXHAUST FAN MUST OPERATE CONTINUOUSLY WHILE EXHAUSTING AIR AT 300°F (149°C) UNTIL ALL FAN PARTS HAVE REACHED THERMAL EQUILIBRIUM, AND WITHOUT ANY DETERIORATING EFFECTS TO THE FAN WHICH WOULD CAUSE UNSAFE OPERATION.

ABNORMAL FLARE-UP TEST
EXHAUST FAN MUST OPERATE CONTINUOUSLY WHILE EXHAUSTING BURNING GREASE VAPORS AT 600°F (316°C) FOR A PERIOD OF 15 MINUTES WITHOUT THE FAN BECOMING DAMAGED TO ANY EXTENT THAT COULD CAUSE AN UNSAFE CONDITION.

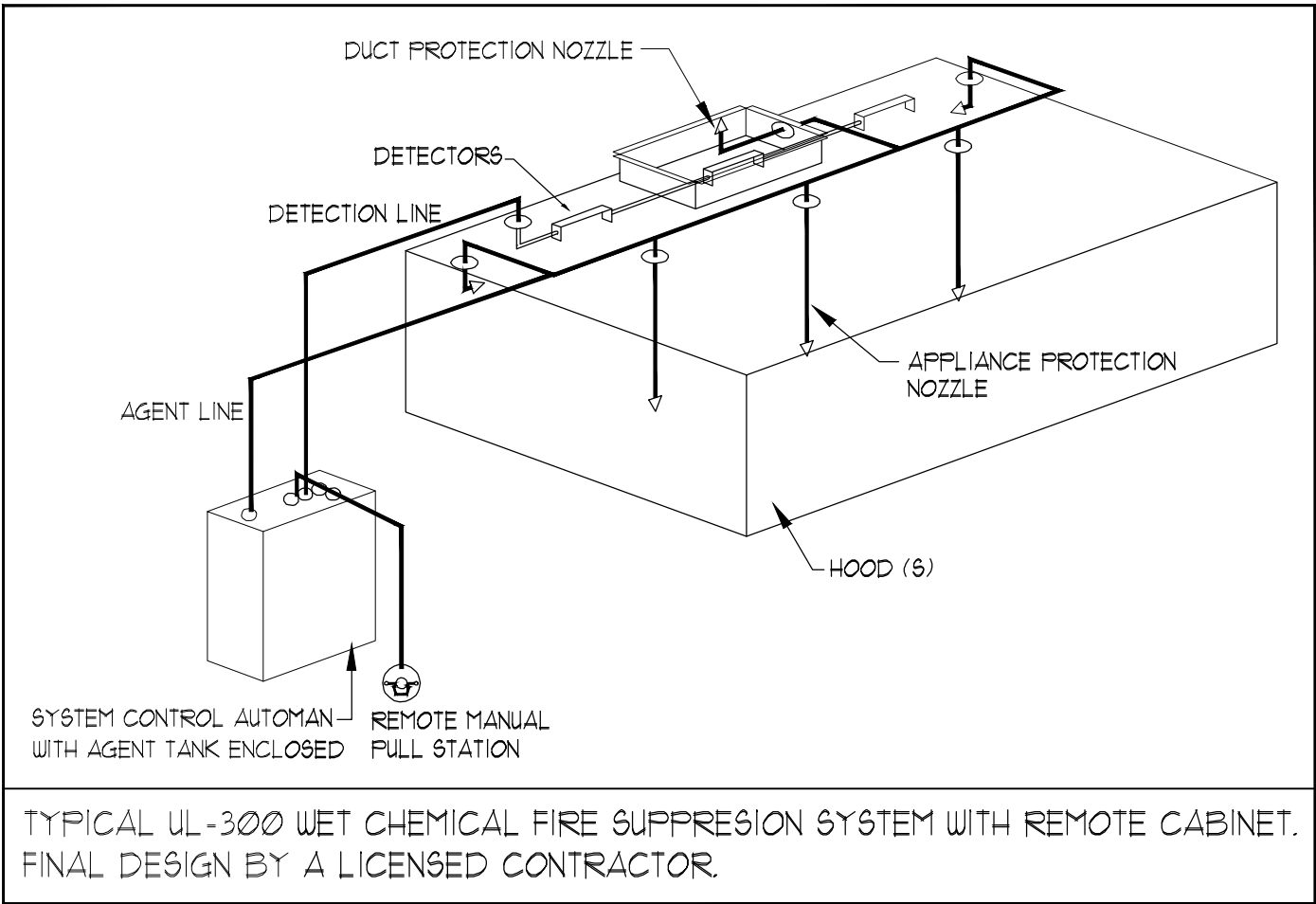
OPTIONS

GREASE BOX.
HINGE KIT - SHIPS LOOSE FOR CURB SUPPLIED BY OTHERS.



KITCHEN HOOD DETAIL

N.T.S.



Date: 10/30/2024

Permit Number: BLD2024-01878



Cell Phone: (313) 505-7744
Email: alahwalmoneer@gmail.com



PROJECT:
MY BIG FAT SHAWARMA

ADDRESS:
4704 ANTHONY WAYNE DR. DETROIT, MI 48201

REVISIONS:

	10/18/2024

DATE:

08/26/2024

DRAWN BY:

MONIEER ALAHWAL

SCALE:

AS NOTED

SHEET TITLE:

- MECHANICAL EQUIPMENT DETAILS

SHEET #:

M-2

APPROVED BY:



ELECTRICAL NOTES AND SPECIFICATIONS

1. ALL WORK SHALL BE IN ACCORDANCE WITH NATIONAL ELECTRICAL CODE, LATEST EDITION, AND ALL LOCAL AND STATE AUTHORITIES HAVING JURISDICTION THEREOF.
2. ALL EQUIPMENT SHALL BE SPECIFICATION GRADE AND SHALL HAVE U.L. LABEL FOR INTENDED USE.
3. ELECTRICAL SYSTEMS SHALL BE COMPLETE IN EVERY DETAIL, INCLUDING ALL INCIDENTAL ITEMS FOR A PROPER AND FUNCTIONING INSTALLATION SUBJECT TO FINAL APPROVAL OF ARCHITECT/ OWNER.
4. ALL REQUIRED PERMITS AND INSPECTIONS SHALL BE OBTAINED BY CONTRACTOR AND SUCH COSTS SHALL BE INCLUDED IN BID PRICE FOR THIS WORK.
5. PROVIDE TEMPORARY POWER AND LIGHTING DURING CONSTRUCTION. REMOVE TEMPORARY WIRING UPON COMPLETION OF THE PROJECT. TEMPORARY SERVICES SHALL BE AS REQUIRED BY NEC, AND OSHA.
6. GROUND CONTINUITY SHALL BE MAINTAINED THROUGHOUT THE ELECTRICAL SYSTEM. CONSULT NEC-250.94 AND .95. INSTALL GROUND WIRING AND/OR SYSTEM AS INDICATED.

7. CONTRACTOR SHALL VISIT THE JOB SITE AND THOROUGHLY CHECK THE FIELD CONDITIONS PRIOR TO SUBMITTING HIS BID.
8. COORDINATE EXACT LOCATION AND MOUNTING HEIGHTS OF ALL LIGHTING FIXTURES AND ELECTRICAL DEVICES WITH OTHER TRADES BEFORE INSTALLATION.
9. ALL WALL MOUNTED CONTROL DEVICES, LIGHT SWITCHES SHALL BE 4'-6" A.F.F. UNLESS OTHERWISE NOTED ON THE DRAWINGS. SWITCHES SHALL BE 30A, 120/277V, 1 POLE, 2 POLE, AS INDICATED, HUBBELL #1221 SERIES OR EQUAL, WHERE COUNTERS ARE INSTALLED, LOCATE LIGHT SWITCHES 6" TO CENTER, ABOVE COUNTER TOP WHERE APPLICABLE.
10. WALL MOUNTED DISCONNECT SWITCHES AND CONTROL PANELS SHALL BE 5'-6" TO TOP ABOVE FINISH FLOOR.
11. EXPANSION FITTINGS SHALL BE PROVIDED FOR ALL CONDUIT CROSSING BUILDING EXPANSION JOINTS.
12. ALL WEATHERPROOF (WP) DUPLEX RECEPTACLES SHALL BE INSTALLED HORIZONTALLY SUCH THAT COVER DOORS OPEN UPWARD.
13. ALL PENETRATIONS OF FIRE WALLS OR FLOORS SHALL BE SEALED AFTER INSTALLATION OF CONDUIT WITH A FIRE RETARDANT SEALANT THAT IS RATED THE SAME AS THE FIRE WALL OR FLOOR.
14. PROVIDE A GREEN GROUND CONDUCTOR IN ALL SYSTEMS CONDUITS INCLUDING BRANCH CIRCUIT CONDUITS FOR LIGHTING AND RECEPTACLES PER NEC TABLE 250-145.
15. MINIMUM CONDUIT SIZE SHALL BE 3/4" C. IMT. ALL OTHERS SHALL BE OF THE SIZES REQUIRED TO ACCOMMODATE NUMBER OF CONDUCTORS IN ACCORDANCE WITH NEC WIRING TABLES, OR AS INDICATED ON DRAWINGS, WHICHEVER IS LARGER.
16. FEEDERS SHALL BE TYPE "THN" OR "XHHN", AND ALL 120 VAC LIGHTING AND RECEPTACLE CIRCUITS RUN 2#12 (THAN/THHN) MIN. + GND IN 3/4" C. MIN. TO THE LIGHTING PANELBOARD INDICATED UNLESS NOTED OTHERWISE. HOME RUN TO PANEL IF MORE THAN 60' SHALL BE #10 IN 3/4" C. OR CONTRACTOR SHALL USE A CONDUCTOR SO THAT VOLTAGE DROP IS LESS THAN 2%. ALL WIRES SHALL BE COPPER, HAVE 600 VOLT INSULATION, RATED FOR 75 DEGREE C, AND INSTALLED IN CONDUIT.
17. RECEPTACLES SHALL BE DUPLEX GROUNDING TYPE 20A, 125V, HUBBELL #5362 OR EQUAL. SPECIAL PURPOSE RECEPTACLES 30A, 40A, 50A-2P OR 3P, ETC., SHALL BE SPECIFICATIONS GRADE. WHERE COUNTERS ARE INSTALLED, LOCATE RECEPTACLES 6" TO CENTER, ABOVE COUNTERS TOP. ALL OTHERS 15" TO BOTTOM, A.F.F. COORDINATE RECEPTACLES LOCATIONS/TYPE WITH OWNER/EQUIPMENT FURNISHED.
18. WALL PLATES FOR SWITCHES, RECEPTACLES AND TELEPHONE OUTLETS SHALL BE SUPER STAINLESS STEEL, TYPE 302, HUBBELL #43000 SERIES OR EQUAL. FULL NYLON CORD FOR TELEPHONE OUTLETS.
19. THE CONTRACTOR SHALL PREPARE AND MAINTAIN ACCURATE RECORD DRAWINGS, AS-BUILT, AND SUBMIT THESE DRAWINGS TO THE OWNER UPON REQUEST.
20. DISCONNECT SWITCHES SHALL BE HEAVY DUTY TYPE, FUSED OR NON-FUSED AS INDICATED, IN A NEMA 1 OR 12 ENCLOSURE. DISCONNECT SWITCHES INSTALLED OUTDOOR SHALL BE NEMA 3R ENCLOSURE, WETTINGHOUSE, SQUARE D, OR EQUAL.
21. FLUORESCENT LAMPS SHALL BE ENERGY SAVING TYPE, GENERAL ELECTRIC MATT MISER II OR EQUAL.
22. FLUORESCENT LAMP BALLAST SHALL BE HIGH POWER FACTOR, TYPE ADVANCE, GENERAL ELECTRIC MAXI-MISER I OR EQUAL.
23. ALL WALL MOUNTED ELECTRICAL EQUIPMENT SHALL HAVE A 1/2" MIN. AIR SPACE BETWEEN WALL AND EQUIPMENT. PROVIDE A NON-CORROSIVE SPACERS AND BRACKETS AS REQUIRED.
24. VERIFY ALL ROUGH-IN LOCATIONS, FINAL CONNECTIONS, MOUNTING HEIGHTS, VOLTAGES AND PHASES WITH OTHER TRADES EQUIPMENT SUPPLIERS SHOP DRAWINGS PRIOR TO INSTALLATION OF EQUIPMENT. FAILURE TO DO SO SHALL RESULT IN NO EXTRA CHARGE TO THE OWNER.
25. EXACT LOCATIONS OF ELECTRICAL EQUIPMENT MAY BE ADJUSTED IN THE FIELD TO AVOID EXISTING AND UNEXPECTED CONSTRUCTION OBSTACLES.
26. WHEN THE JOB IS COMPLETED, THE CONTRACTOR SHALL PROVIDE THE OWNER WITH CERTIFICATE OF APPROVAL FROM THE LOCAL INSPECTION AUTHORITY. THE CONTRACTOR SHALL GIVE THE OWNER A WRITTEN GUARANTEE THAT HE WILL MAKE GOOD, AT HIS OWN EXPENSE, ANY DEFECTS IN MATERIALS OR WORKMANSHIP WHICH MAY DEVELOP WITHIN ONE (1) YEAR FROM THE DATE OF FINAL ACCEPTANCE.

27. PANELS SHALL BE OF VOLTAGE, PHASE, SERVICE, AND NUMBER OF WIRES AS INDICATED ON THE DRAWINGS. BREAKERS SHALL BE THERMAL MAGNETIC, TRIP FREE, SINGLE OR MULTIPOLE, BOLTED DESIGN, MOLDED CASE, MINIMUM 22000 A.I.C AT 240 VOLTS. PANELS SHALL BE RATED FOR SERVICE ENTRANCE WHERE APPLICABLE. PANELS RATED FOR 120/240V, 1-PHASE, 3-WIRE SERVICE SHALL BE SQUARE D TYPE "NODP" OR EQUAL. LOAD CENTER ARE NOT PERMITTED. PROVIDE ALL NECESSARY FUSES AND REPLACE ALL THOSE BLOWN DURING CONSTRUCTION. ALL FUSES SHALL BE TIME LAG, DUAL ELEMENT SIMILAR TO FPE "ECGNS" OR BUSSMAN "FUSETRONS", OR EQUAL.

28. CIRCUIT IDENTIFICATION AND LOADING
- PROVIDE CIRCUIT IDENTIFICATIONS FOR ALL RECEPTACLES AND LIGHTS. IDENTIFICATIONS FOR RECEPTACLES SHALL BE LOCATED ON FACE PLATE. IDENTIFICATIONS FOR LIGHTS SHALL BE LOCATED ON THE BOX ABOVE THE CEILING TO WHICH THE FIXTURE IS CONNECTED.
29. CONTRACTOR SHALL PROVIDE TYPED PANEL BRANCH CIRCUIT DIRECTORIES REFLECTING THE ACTUAL AS-BUILT CONDITION PRIOR TO FINAL ACCEPTANCE
30. CIRCUIT RUNS AND NUMBERING ARE INTENDED TO INDICATE THE LOADING INTEND OF THE DESIGN, AND THE CONTRACTOR SHALL OBSERVE AND IMPLEMENT, HOWEVER ACTUAL CIRCUIT NUMBERING AND ROUTING IS FOR THE CONTRACTOR TO DETERMINE.
31. CONTRACT DRAWINGS ARE DIAGRAMMATIC AND INTENDED TO CONVEY THE SCOPE OF WORK AND GENERAL ARRANGEMENT OF EQUIPMENT, PANELBOARDS, CONDUITS, WALL AND DISC. SWITCHES, AND RECEPTACLES, HOWEVER EXACT LOCATIONS ARE TO THE CONTRACTOR TO DETERMINE.
32. ELECTRICAL CONTRACTOR FOR THIS PROJECT SHALL BE LICENSED FROM THE STATE OF MICHIGAN, AND HAS PRIOR WORK EXPERIENCE IN SIMILAR INSTALLATIONS.
33. EACH CASH REGISTER, AND CREDIT CARD MACHINE, SHALL HAVE DEDICATED CIRCUIT BREAKER, CONDUIT AND WIRES. NO OTHER WIRE SHALL OCCUPY SUCH DEDICATED CONDUIT.

- OUTSIDE LIGHTS AND SIGN SHALL BE CONTROLLED VIA TIME SWITCH (TORK, PARASON OR EQUAL).
- CIRCUITS PROTECTED BY A 30A BREAKER SHALL USE # 10 AWG WIRE. CIRCUITS PROTECTED BY A 20A BREAKER SHALL USE # 12 AWG WIRE. CIRCUITS PROTECTED BY A 15A BREAKER SHALL USE # 14 AWG WIRE. UNLESS NOTED OTHERWISE
- ACTUAL ELECTRICAL EQUIPMENT RATINGS SHALL BE FIELD VERIFIED BY THE ELECTRICAL CONTRACTOR BEFORE INSTALLATION. E. CONTRACTOR IS TO MAKE APPROPRIATE CHANGES IF RATINGS VARY FROM WHAT IT IS SHOWN.
- COORDINATE ELECTRICAL/POWER REQUIREMENTS WITH THE FUEL SYSTEM REQUIREMENTS

NOTE: MAKE THE BRANCH CIRCUIT THAT FEEDS ALL EXIT SIGNS, EGRESS ILLUMINATION, AND EMERGENCY ILLUMINATION SYSTEM UNIT EQUIPMENT THE SAME BRANCH CIRCUIT AS THAT SERVING THE NORMAL LIGHTING IN THE AREA AND CONNECTED AHEAD OF ANY LOCAL SWITCHES.

- NOTES:
- ACTUAL ELECTRICAL EQUIPMENT RATINGS SHALL BE FIELD VERIFIED BY THE ELECTRICAL CONTRACTOR BEFORE INSTALLATION.
 - ELECTRICAL CONTRACTOR IS TO MAKE APPROPRIATE CHANGES IF RATINGS VARY FROM WHAT IS SHOWN.
 - EXHAUST FAN PROVIDED & INSTALLED BY MECH. CONTRACTOR. CONNECT TO ROOM LIGHT CIRCUIT USING FLEXIBLE METAL CONDUIT.

- NOTES:
- DISCUSS LIGHT DIMMERS W/ OWNER
 - EMERGENCY LIGHTING DESIGN METHOD SHOWS ONLY MOST PRACTICAL LOCATIONS. ADDITIONAL LIGHTS MAY ADDED AND/OR REQUIRED TO MEET LOCAL CODE.

NOTE: MAKE THE BRANCH CIRCUIT THAT FEEDS ALL EXIT SIGNS, EGRESS ILLUMINATION, AND EMERGENCY ILLUMINATION SYSTEM UNIT EQUIPMENT THE SAME BRANCH CIRCUIT AS THAT SERVING THE NORMAL LIGHTING IN THE AREA AND CONNECTED AHEAD OF ANY LOCAL SWITCHES.

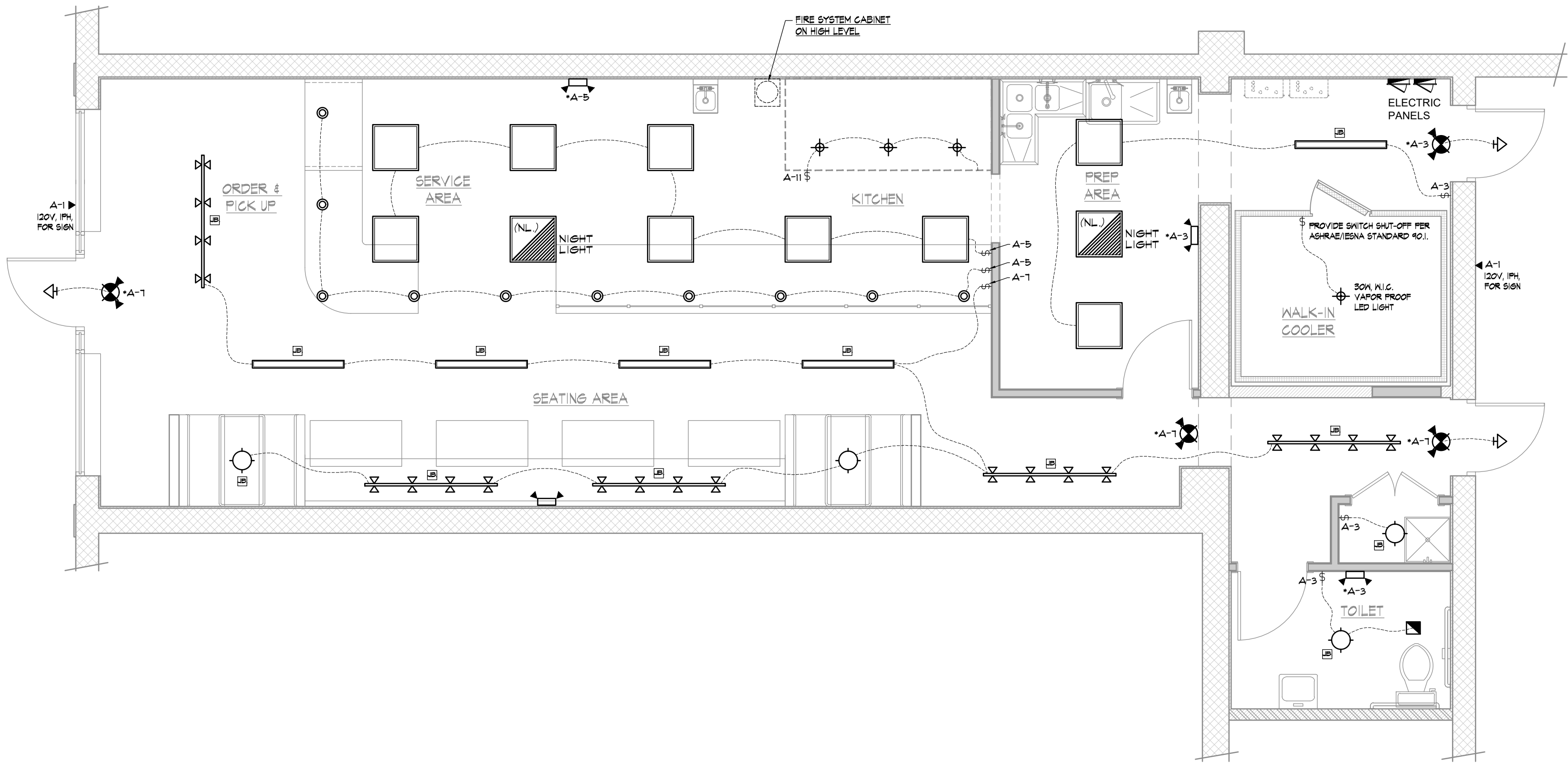
ELEC. ABBREVIATIONS & SYMBOLS			
E.G.G.	▼	ELECTRICAL CONNECTION - CONDUIT	AMP
D.R.	⊗	DUPLEX RECEPTACLE	V.
S.R.	⊗	30P VOLT RECEPTACLE (VERIFY TYPE)	J.B.
SW	⏏	SWITCH	HP
E.P.	⏏	ETHERNET/PHONE OUTLET	A.F.F.
K.W.		KILOWATT	D.F.A.
K.		KWATT	D.S.

NOTES:

- A ALL ELECTRICAL OUTLETS SHOWN ON THIS PLAN ARE FOR FIXTURES SPECIFIED AS FURNISHED BY THE KITCHEN EQUIPMENT SUPPLIER. FOR FURTHER BLDG ELECTRICAL REQUIREMENTS (TELEPHONES, CLOCKS, SIGNS, EXHAUST HOOD SWITCHING, ETC.) SEE OTHER PLANS
- B ALL DIMENSIONS GIVEN ARE IN INCHES TO 2'-0" AND ARE FROM CENTERLINES AND/OR FINISHED WALLS. ELEVATIONS GIVEN ARE FROM FINISHED FLOOR TO CENTERLINE OF OUTLET. ALL ROUGH-INS SHOWN ARE TO BE RUN INSIDE WALLS (EXCEPT STUB-UPS). LOCATION INDICATES POINT OF EXIT FROM WALLS, CEILINGS OR FLOORS. ALL CONVENIENCE OUTLETS ARE TO BE SET HORIZONTALLY. ALL 120 VOLT OUTLETS NOT DESIGNATED WITH SPECIFIC LOADS TO BE RATED AT 20.0 AMPS.
- C ELECTRICIAN TO CONNECT ALL ELECTRICAL EQUIPMENT AND FIXTURES AND DO ANY INTERNAL WIRING REQUIRED IN THE FIXTURES AS REQUIRED BY THE SPECIFICATIONS. ALL ELECTRICAL OUTLET COVER PLATES ARE TO BE STAINLESS STEEL AND ARE TO BE FURNISHED BY THE ELECTRICIAN, AS WELL AS THE RECEPTACLE. UNLESS OTHERWISE SPECIFIED IN THE ITEM SPECIFICATIONS. KITCHEN EQUIPMENT SUPPLIER TO FURNISH A GALVANIZED JUNCTION BOX IN THE FIXTURE CUTOUT TO RECEIVE THE RECEPTACLE. UNLESS OTHERWISE NOTED. ALL DISCONNECT SWITCHES REQUIRED ARE TO BE FURNISHED AND INSTALLED BY THE ELECTRICIAN AT TIME OF INSTALLATION.
- D ALL WORK TO BE PERFORMED IN FULL ACCORDANCE WITH ALL APPLICABLE CODES RELATING TO HOOK-UP, INSTALLATION AND WIRING OF EQUIPMENT. OMISSIONS OR ERRORS ON THE SCHEDULE DO NOT RELIEVE THE ELECTRICIAN FROM COMPLETE FINAL CONNECTION RESPONSIBILITY.
- E ELECTRICAL REQUIREMENTS FOR THIS AREA SHALL BE SPECIFIED AND LOCATED BY OTHERS.
- F CONTROL CIRCUIT FROM ELECTRICIAN FURNISHED AND INSTALL SHUNT TRIP BREAKER(S) TO FIRE CONTROL SYSTEM CONTROL MICRO-SWITCH SHUNT TRIP BREAKER(S) TO BE UNDER EXHAUST HOOD. IN CASE OF FIRE, ALL POWER TO EQUIPMENT UNDER HOOD WILL BE SHUT OFF. ALL GAS EQUIPMENT LOCATED UNDER HOOD WILL ALSO BE SHUT OFF IN CASE OF FIRE. MUST BE WIRED THAT IN THE EVENT OF POWER FAILURE, FIRE CONTROL SYSTEM WILL NOT BE ACTIVATED AND WHEN POWER IS RESTORED, FIRE SYSTEM WILL NOT DISCHARGE.
- G SPIRAL WRAP NECESSARY LENGTH OF STRIP HEATER ON DRAIN LINE. USE "E-Z" HEAT (OR EQUAL) 120 lph. WIRE HEATER TO FAN CIRCUIT OF BLOWER COIL SO THAT HEATER IS ALWAYS ON EXCEPT DURING DEFROST CYCLE. STRIP HEATER FURNISHED BY KITCHEN EQUIPMENT SUPPLIER TO ELECTRICAL CONTRACTOR FOR HOOK-UP.

SYMBOL LEGEND

- 2'X2' LET24, 40W LED RECESSED FLAT PANEL LIGHT (NL) NIGHT LIGHT
- 7'X1 LED DIMMABLE LAMP (EACH LAMP) ON SUSPENDED LIGHT TRACK
- 48" L, 40W, SUSPENDED LINEAR LED LIGHT FIXTURE
- 40W, LED GLOBE LIGHT FIXTURE
- 6", 20W, RECESSED LED LIGHT FIXTURE
- 30W, K.I.C. VAPOR PROOF LED LIGHT
- WALL OR CEILING MOUNTED EMERGENCY LIGHT WITH BUILT-IN 90 MIN. BATTERY BACK-UP, DIRECTLY WIRED
- WALL MOUNT EMERGENCY/EXIT LIGHT WITH BUILT-IN 90 MIN. BATTERY BACK-UP, DIRECTLY WIRED
- EXTERIOR REMOTE EMERGENCY LIGHT POWERED FROM EXIT SIGN
- KITCHEN HOOD EXHAUST FAN 2,000 CFM
- 75 CFM, TOILET EXHAUST FAN



ELECTRICAL - LIGHTING PLAN

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



Permit Number: BLD2024-01878



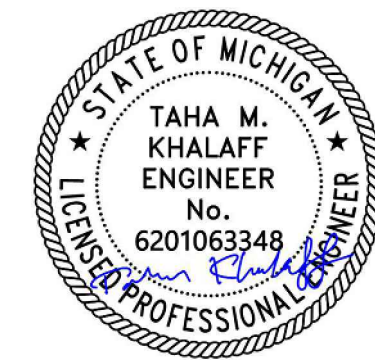
PROJECT:
MY BIG FAT SHAWARMA

ADDRESS:
4704 ANTHONY WAYNE DR. DETROIT, MI 48201

REVISIONS:	10/18/2024

DATE:	08/26/2024
DRAWN BY:	MONIEER ALAHWAL
SCALE:	AS NOTED
SHEET TITLE:	- ELECTRICAL - LIGHTING PLAN

SHEET #:	E-1
APPROVED BY:	



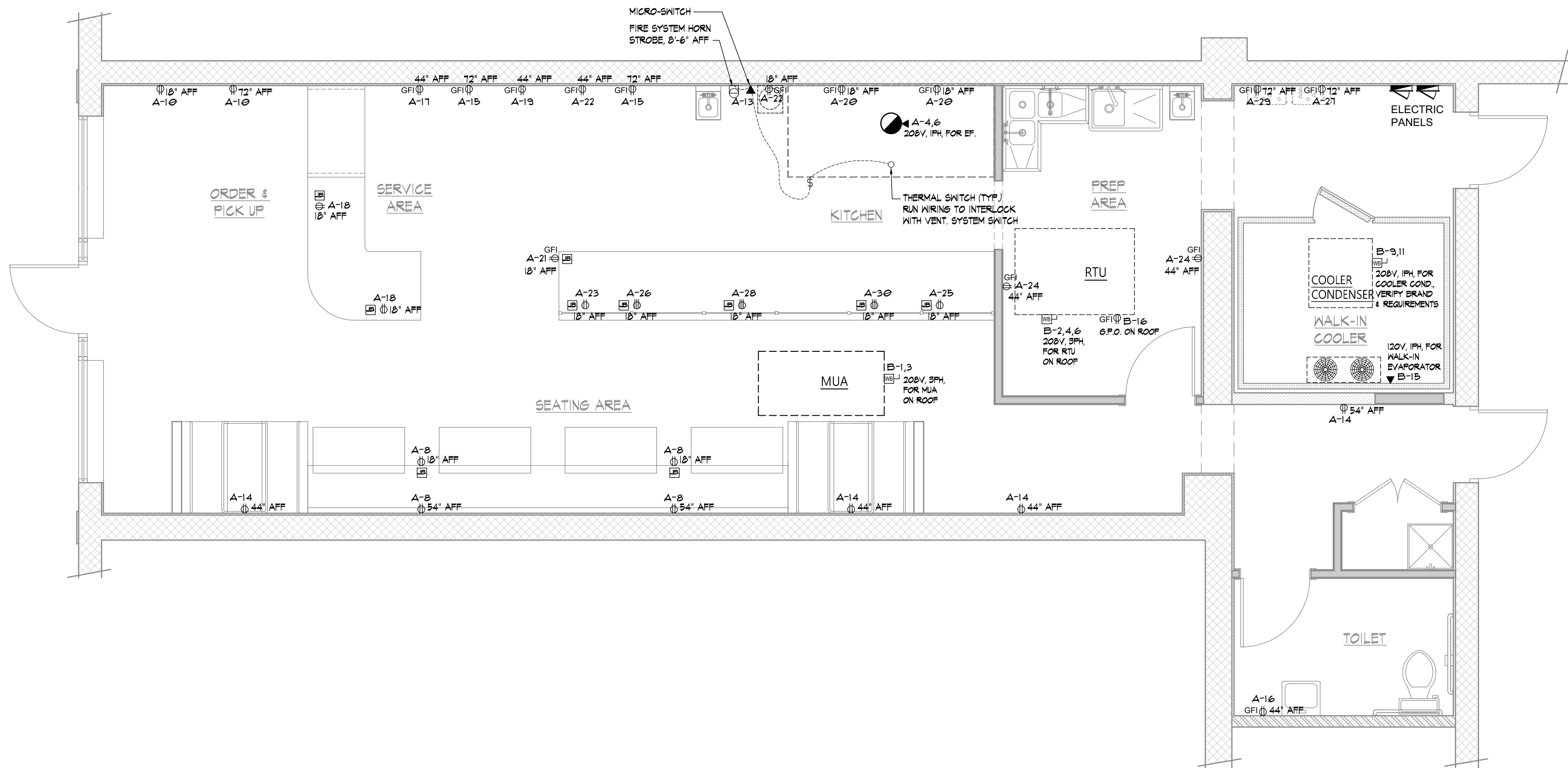


- ## POWER DISTRIBUTION RISER DIAGRAM

PANEL 'A' DESIGNATION						200 AMP PANEL 200 MLO COPPER BUS 22KAIC	
LOCATION: BACK AREA							
VOLTAGE: 240/120V		PHASE: 1 PH		WIRE: 3N			
CIRC.	AMP/P	DESCRIPTION	KVA	CIRC.	AMP/P	DESCRIPTION	KVA
1	20/1	OUTDOOR LIGHTS & SIGN	0.3	2	20/1	SFAPRE	-
3	20/1	TOILET & PREP LIGHTS	0.3	4	30/2	HOOD EXHAUST FAN	3.4
5	20/1	KITCHEN & SERVICE LIGHTS	0.6	6			
7	20/1	TRACK & SEATING LIGHTS	0.7	8	20/1	SEATING BENCH OUTLETS	1.6
9	20/1	SFAPRE	-	10	20/1	ORDER & PICK UP OUTLETS	0.8
11	20/1	KITCHEN HOOD	0.4	12	20/1	MENU MONITORS	1.6
13	20/1	HOOD FIRE SYSTEM	0.6	14	20/1	GENERAL OUTLETS	1.6
15	20/1	MONITORS OUTLETS	0.8	16	20/1	TOILET SFI	0.4
17	20/1	FROZEN GRANITA MACHINE	1.4	18	20/1	SERVICE COUNTER OUTLETS	1.2
19	20/1	ICE & WATER DISPENSER	1.8	20	20/1	UNDER HOOD OUTLETS	0.8
21	20/1	REF. SELF-SERVICE	1.8	22	20/1	KITCHEN OUTLETS	0.4
23	20/1	SANDWICH GRILLS	2.2	24	20/1	2-DOOR FREEZER	1.6
25	20/1	SANDWICH GRILLS	2.2	26	20/1	ONE PAN HOT FOOD WELL	1.2
27	20/1	WATER HEATER	0.8	28	20/1	REF. DROP-IN WELLS	2.4
29	20/1	WATER HEATER	0.8	30	20/1	TWO PAN HOT FOOD WELLS	2.4
31	20/1	SFAPRE	-	32	20/1	SFAPRE	-
33	20/1	SFAPRE	-	34	20/1	SFAPRE	-
35	20/1	SFAPRE	-	36	20/1	SFAPRE	-
37	20/1	SFAPRE	-	38	20/1	SFAPRE	-
39	20/1	SFAPRE	-	40	20/1	SFAPRE	-
41	20/1	EMERGENCY/NIGHT LIGHTS	0.2	42	20/1	SECURITY CAMERAS	0.4
SUBTOTAL			14.9	SUBTOTAL			19.8
TOTAL LOAD ON THE PANEL: 34.7 KVA (166.8 AMPS)							

PANEL B' DESIGNATION						200 AMP F 200 MLI COPPER BUS 22KALG	
LOCATION: BACK AREA							
VOLTAGE: 240/120V		PHASE: 3 PH		WIRE: 4N			
CIRC.	AMP/F	DESCRIPTION	KVA	CIRC.	AMP/F	DESCRIPTION	KVA
1	20/2	MJA	3.0	2			
3	20/1	SPARE	-	4	60/3	RTU	18.0
7	20/1	SPARE	-	8	20/1	SPARE	-
9	40/2	COOLER CONDENSER	8.3	10	20/1	SPARE	-
11	20/1	SPARE	-	12	20/1	SPARE	-
13	20/1	SPARE	-	14	20/1	SPARE	-
15	20/1	H.I. COOLER EVAPORATOR	1.8	16	20/1	ROOF GENERAL OUTLET	0.4
17	20/1	SPARE	-	18	20/1	SPARE	-
19	20/1	SPARE	-	20	20/1	SPARE	-
21	20/1	SPARE	-	22	20/1	SPARE	-
23	20/1	SPARE	-	24	20/1	SPARE	-
25	20/1	SPARE	-	26	20/1	SPARE	-
27	20/1	SPARE	-	28	20/1	SPARE	-
29	20/1	SPARE	-	30	20/1	SPARE	-
31	20/1	SPARE	-	32	20/1	SPARE	-
33	20/1	SPARE	-	34	20/1	SPARE	-
35	20/1	SPARE	-	36	20/1	SPARE	-
37	20/1	SPARE	-	38	20/1	SPARE	-
39	20/1	SPARE	-	40	20/1	SPARE	-
41	20/1	SPARE	-	42	20/1	SPARE	-
SUBTOTAL			13.1	SUBTOTAL			18.4
TOTAL LOAD ON THE PANEL: 31.5 KVA (27.4 AMPS)							

ELEC. ABBREVIATIONS & SYMBOLS				
E.G.C.	▼	ELECTRICAL CONNECTION - CONDUIT	AMP	AMPERAGE
D.R.		DUPLEX RECEPTACLE	V.	VOLTAGE
SW		200 VOLT RECEPTACLE (VERIFY TYPE)	J.B.	□ JUNCTION BOX
S.W.	⚡	SWITCH	HP	HORSE POWER
E.P.	▼	ETHERNET/PHONE OUTLET	A.F.F.	ABOVE FINISHED FLOOR
K.W.		KILOWATT	D.F.A.	DROP FROM ABOVE
K.V.		KVLT	D.	ⓓ DISCONNECT SWITCH



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

PROJECT:
MY BIG FAT SHAWARMA

ADDRESS:
4704 ANTHONY WAYNE DR. DETROIT, MI 48201

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REVISIONS:

10/18/2024

DATE _____

08/26/2024

DRAWN BY:

NEER ALAHWAL

SCALE:

AS NOTED

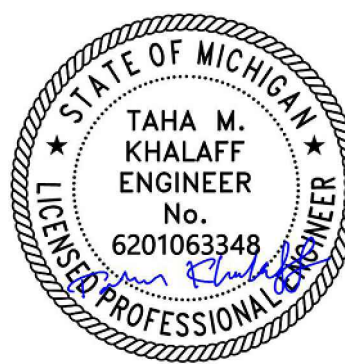
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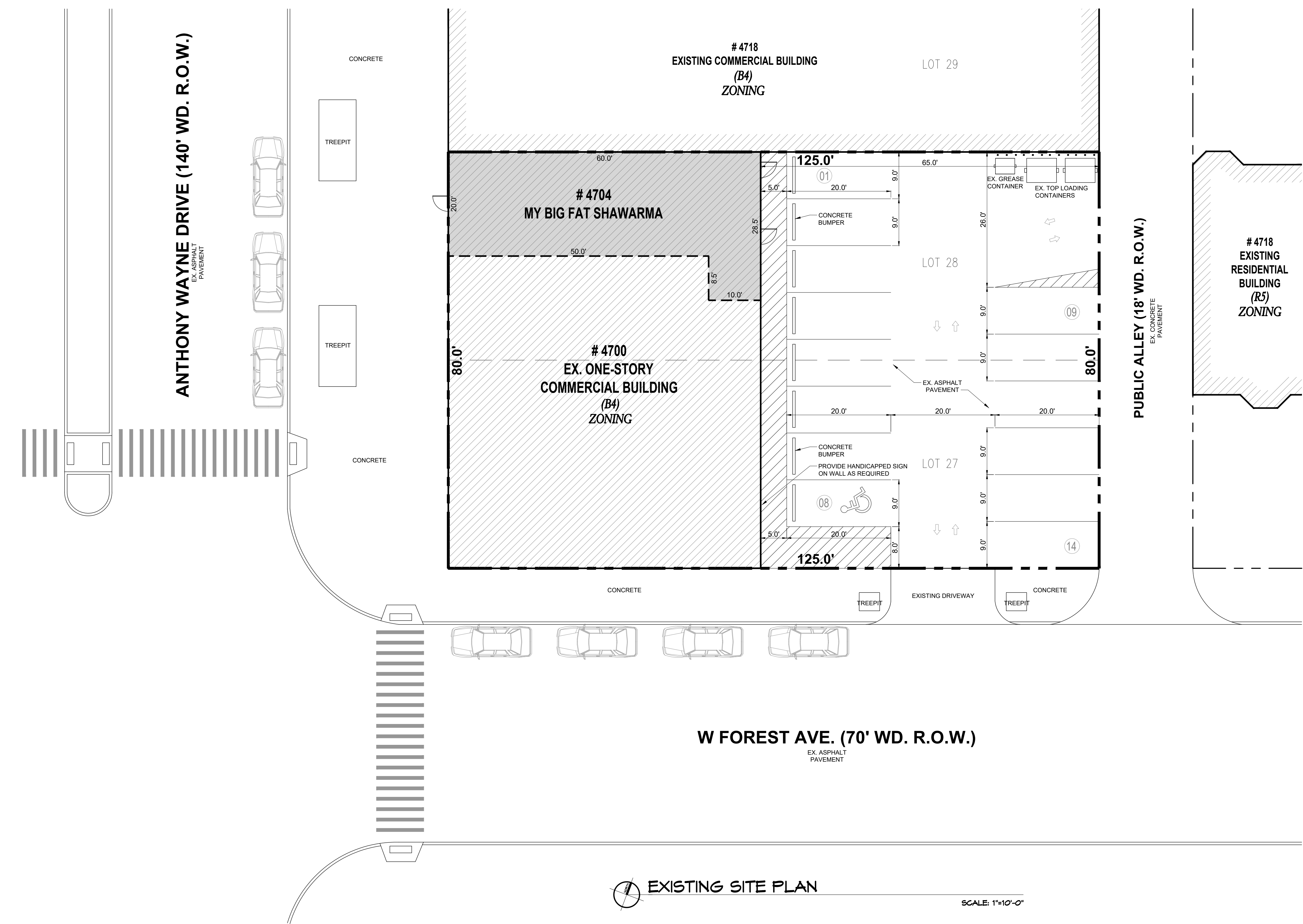
- ELECTRICAL - POWER PLAN

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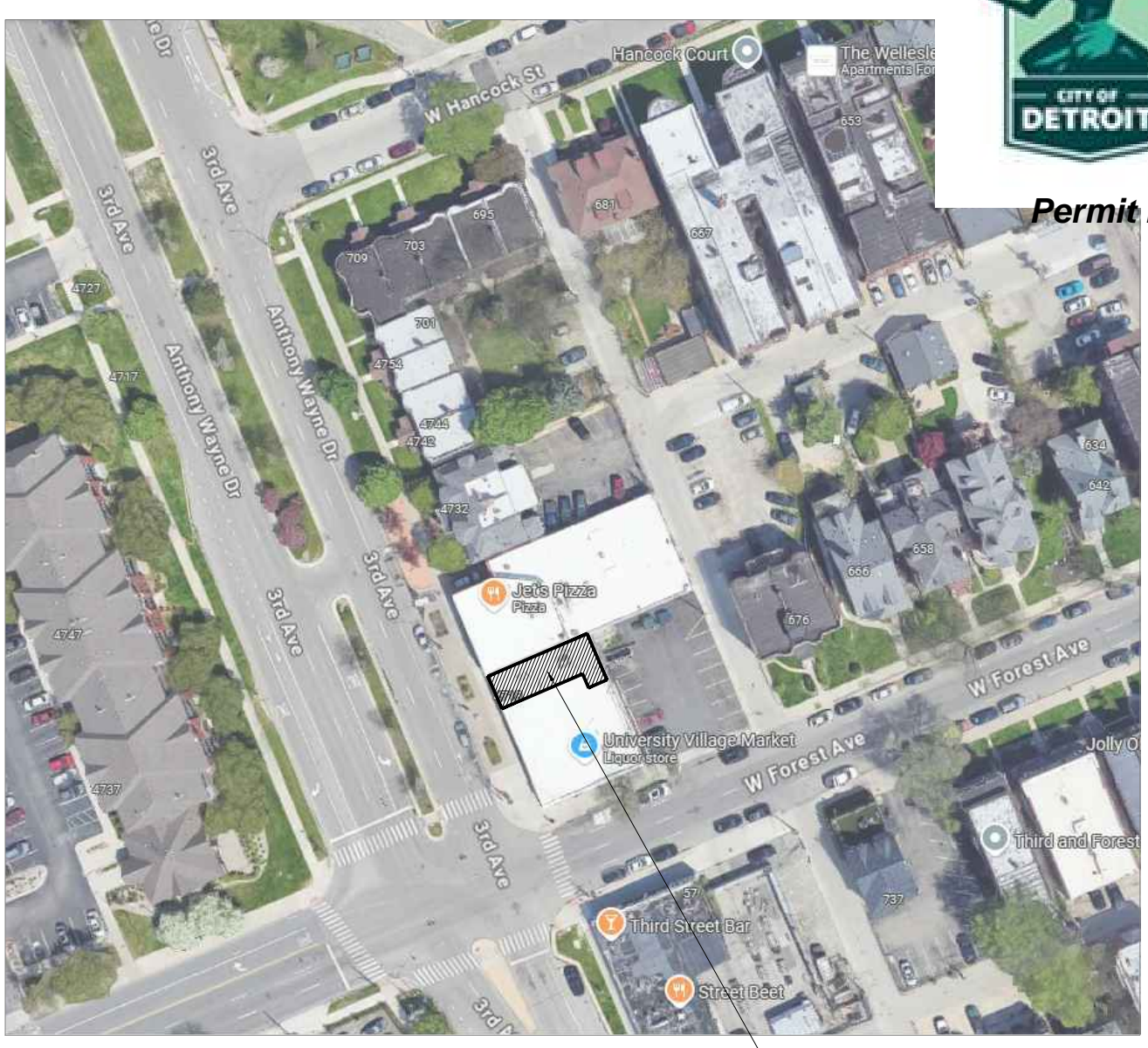
E-2

APPROVED BY: _____





EXISTING SITE PLAN
SCALE: 1"=10'-0"



LOCATION MAP N.T.S.

PARCEL ID: 04003415.002L

LEGAL DESCRIPTION:
E THIRD 27-28 WM A BUTLERS SUB L11 P89 PLATS, W C R 4/46 80 X 125

ZONING	B4 (GENERAL BUSINESS DISTRICT)
BUILDING DATA:	
PREVIOUS USE:	RESTAURANT
PROPOSED USE:	CARRY-OUT RESTAURANT.
USE GROUP:	B (CARRY-OUT) (FOOD PROCESSING ESTABLISHMENTS AND COMMERCIAL KITCHENS NOT ASSOCIATED WITH RESTAURANTS, CAFETERIAS AND SIMILAR DINING FACILITIES NOT MORE THAN 2,500 SQUARE FEET)
AREA OF SUBJECT TENANT:	1,343 SQ.FT.
TOTAL EXISTING BUILDING ARE:	4,800 SQ. FT.
EXISTING BUILDING HEIGHT:	16.0 FT.

APPROVED
ePLAN
PLAN REVIEW
Buildings, Safety Engineering
& Environmental Department
Date: 10/30/2024
Permit Number: BLD2024-01878

MA ARCHMASTER
Residential & Commercial Designs
Cell Phone: (313) 505-7744
Email: alahwalmoneer@gmail.com

VIVID
DESIGN STUDIO

PROJECT:
MY BIG FAT SHAWARMA

ADDRESS:
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SCALE:	AS NOTED
SHEET TITLE:	- EXISTING SITE PLAN

SHEET #:
SP-1

APPROVED BY:

