



CERTIFICATE OF APPROPRIATENESS PLACARD

for Raleigh Historic Resources

Project Description:

Install mounted gas heaters and conduit

*Beyond this expiration date, NC Session Law 2021-03 grants an extension to all valid development permits until 150-days after NC Executive Order 116 is rescinded.

214 E Martin St

Address

Moore Square

Historic District

City Market

Historic Property

COA-0018-2022

Certificate Number

2/11/2022

Date of Issue

8/11/2022*

Expiration Date

This card must be kept posted in a location within public view until all phases of the described project are complete. The work must conform with the code of the City of Raleigh and laws of the state of North Carolina. When your project is complete, you are required to ask for a final zoning inspection in a historic district area. Telephone the RHDC office at 832-7238 and commission staff will coordinate the inspection with the inspections Department. If you do not call for this final inspection, your Certificate of Appropriateness is null and void.

Signature, _____

Erin Morton

Raleigh Historic Development Commission

Pending the resolution of appeals, commencement of work is at your own risk.

Type or print the following:

Applicant name: Market Hall Inc.

Mailing address: 200 E. Martin St. Suite 200

City: Raleigh

State: NC

Zip code: 27601

Date: 2/1/2022

Daytime phone #: 984-212-1581

Email address: Adam@citymarketraleigh.com

Applicant signature: Adam J Hoffman

Minor work (staff review) – one copy

Major work (COA committee review) – ten
copies

Additions > 25% of building sq. footage

New buildings

Demolition of building or structure

All other

Post approval re-review of conditions of
approval

Office Use Only

Transaction #: _____

File #: COA-0018-2022

Fee: _____

Amount paid: _____

Received date: _____

Received by: _____

Property street address: 214 E. Martin St. Raleigh, NC 27601

Historic district: Moore Square District

Historic property/Landmark name (if applicable): City Market

Owner name: Mike Hakan

Owner mailing address: 200 E. Martin St. Suite 200 Raleigh, NC 27601

For applications that require review by the COA Committee (major work), provide addressed and stamped envelopes for owners for all properties with 100 feet on all sides of the property, as well as the property owner.

Property Owner Name & Address	Property Owner Name & Address

I understand that all major work applications that require review by the Raleigh Historic Development Commission's COA Committee must be submitted by 4 p.m. on the date of the application deadline; otherwise, consideration will be delayed until the following committee meeting. An incomplete application will not be accepted.

Will you be applying for rehabilitation tax credits for this project? Yes <input type="radio"/> No <input checked="" type="radio"/>	Office Use Only Type of work: <u>50</u>
Did you consult with staff prior to filing the application? Yes <input checked="" type="radio"/> No <input type="radio"/>	

Design Guidelines: please cite the applicable sections of the design guidelines (www.rhdc.org).		
Section/Page	Topic	Brief description of work (attach additional sheets as needed).
pg 59	Heating Additions	We would like to install some Infrared heaters up under the overhang of the Parham St. side of the building.
pg 59	Mechanical Additions	The heaters are tucked up in the overhang, and the necessary gas and electrical lines will be run up inside the overhang also.

Minor Work Approval (office use only)	
Upon being signed and dated below by the Planning Director or designee, this application becomes the Minor Work Certificate of Appropriateness. It is valid until <u>08/11/2022</u> .	
Please post the enclosed placard form of the certificate as indicated at the bottom of the card. Issuance of a Minor Work Certificate shall not relieve the applicant, contractor, tenant, or property owner from obtaining any other permit required by City Code or any law. Minor Works are subject to an appeals period of 30 days from the date of approval.	
Signature (City of Raleigh) <u><i>Semi Martin</i></u>	Date <u>02/11/2022</u>

Market Hall Inc. Minor COA Application Description

We would like to install 7 small infrared heaters under the overhang on the Parham St side of Market Hall. These heaters use natural gas to create infrared heat that will allow us to use the areas under the eaves of the building during the colder months of the year. They would require a small gas line to be run down the length of the building, we would make sure it matches the existing pipes that run throughout the eaves for the fire suppression system. It also would require an electrical connection, but there is already electricity up in the eaves, so we will be able to use the existing conduits in most places.

The units are small, about 22.5 inches long, 12.5 inches wide, and 11.5 inches tall. They fit nicely up into the eave of the building, as the attached pictures can show you. We temporarily mounted a unit to show how it fits up in the eave without being visible from outside of the building's footprint. The model of the unit is Dayton 5VD61, and a spec sheet is attached to the application. No fire retardant material is necessary with proper installation clearances.

In the attached pictures you can also see that there already exists multiple runs of pipes that supply the existing fire suppression system. The necessary gas line that will need to be run can be installed and painted to look exactly like those existing pipes. Also, there is already electrical conduit running in the eaves to supply the lights and some outlets, we will be able to use existing conduit in most places, and when necessary to add new, it will also be painted to match what is existing. The power requirements for the units (for ignition only) are also low voltage (only 24 V), making the installation much easier. All gas and electrical work will be done by licensed professionals that have worked on the City Market property for years and are familiar with the historic nature of the property.

Please see the attached drawing for the location of each unit and the attached pictures for the location of the existing pipes and to see how the unit tucks up into the eave. From street level on the sidewalk across from Market Hall the units are not visible at all, in fact they cease to be visible about halfway across Parham St, since they can be tucked up so high in the eave. In the attached photos all specified manufacturers clearances have been observed. Due to the size of the building, we were actually able to create the necessary clearance from the unit itself and not from the infrared panel as the manufacturer requires. So, all installation clearances have been exceeded. The top of the unit hangs 28 inches below the roof at the closest point, same with the back clearance the outer edge of the unit is 24 inches from the wall of the building, and to the sides the clearance is over 7 feet.

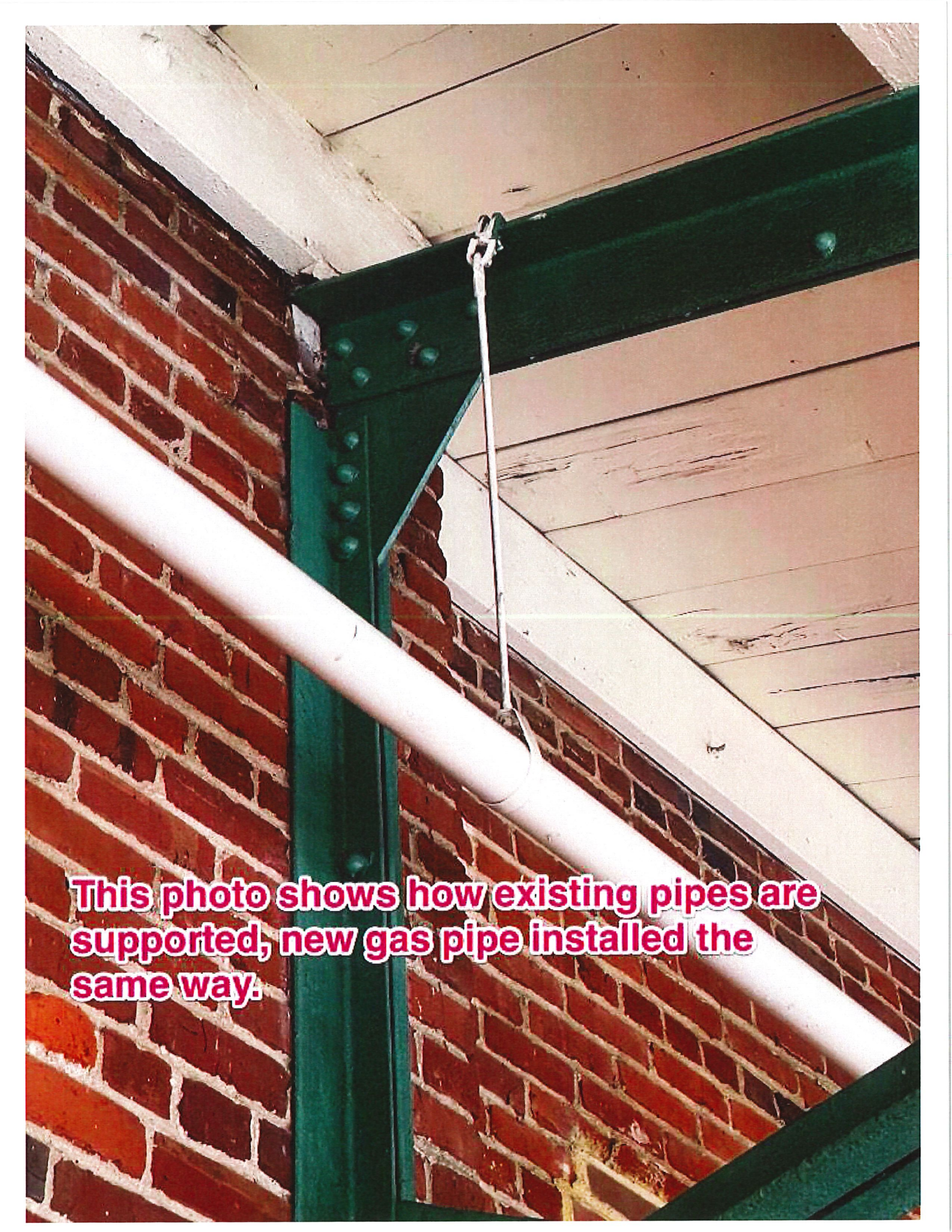
With the approval of this minor COA we will be able to use the outside of the building for a much greater number of events increasing the foot traffic for all of City Market. We believe this will be a great addition to the building and look forward to getting approved. If you have any questions please reach out to Adam Hoffman, General Manager of City Market and Market Hall at 984-212-1581. Thank you.



This photo shows existing electrical lines hidden behind the support beams.

Current gas lines coming into the building, new line can tip off of this and run up into the eave behind the staircase as the current line runs. Pink line shows approximate location of gas line.

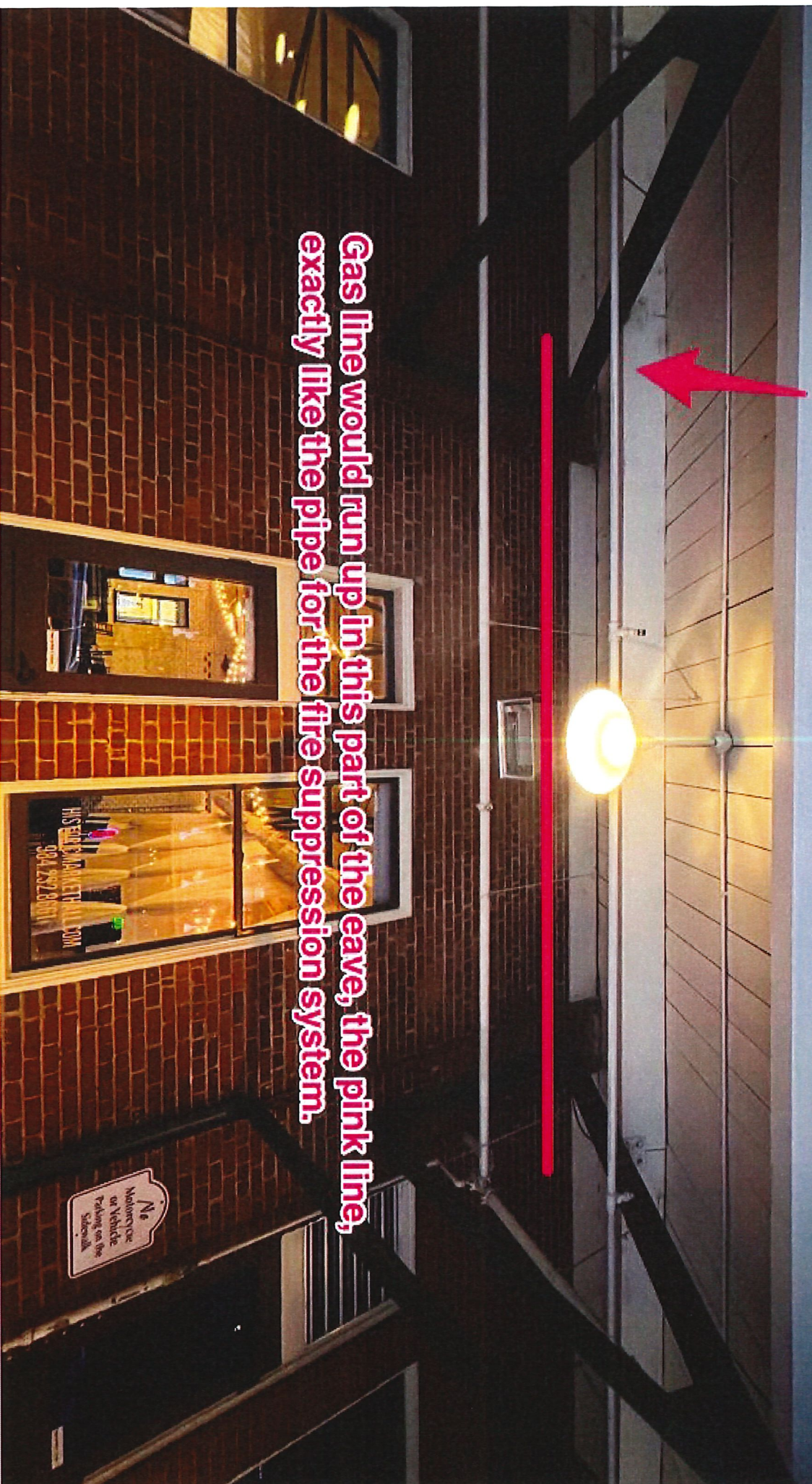




This photo shows how existing pipes are supported, new gas pipe installed the same way.

Arrow points to a support beam, all electrical is hidden behind the beams, as per the other installations outside, i.e. lights outlets.

Gas line would run up in this part of the eave, the pink line, exactly like the pipe for the fire suppression system.



Existing pipes and conduits for the fire suppression system and other electrical devices under the eaves.



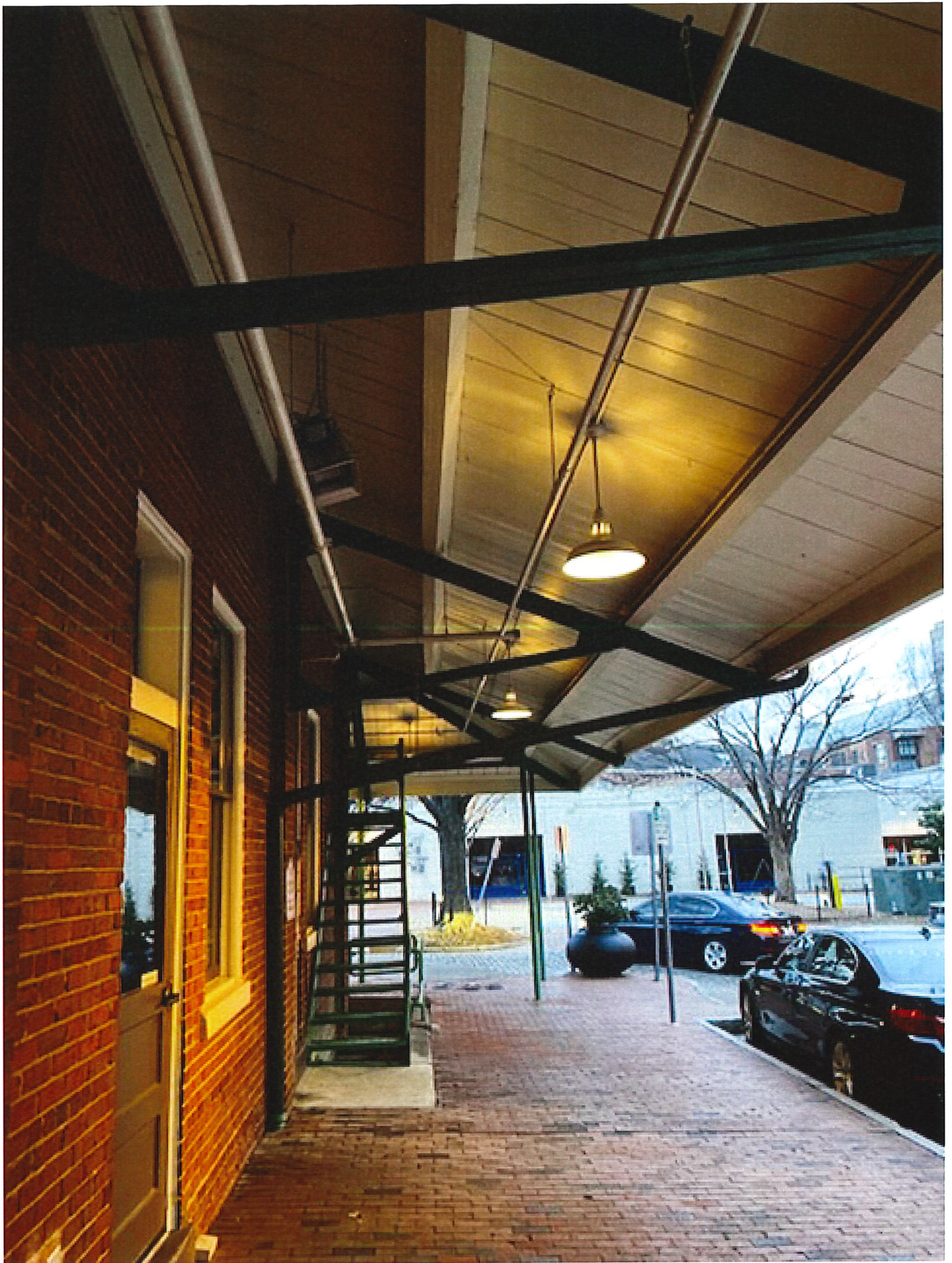
There are nine of these girder sections along the side of the building. Each section is 19 feet wide, and we want to install heaters in the middle seven sections.



There is a light in each section and the heater will be installed behind the light when facing the building from the road, as is pictured above.













3E132, 3E460, 5VD61, 5VD62, 3E133, 3E461,
5VD63, 5VD64, 3E134, 3E462, 5VD65, 5VD66

Dayton Gas Infra-Red Heaters Specification Sheet

⚠ WARNING! This heater must be installed and serviced by trained gas installation and service personnel only! Improper installation, adjustment, alteration, service or maintenance can cause property damage, injury or death. Read the installation, operating and maintenance instructions thoroughly before installing or servicing this equipment. Protect yourself and others by observing all safety information. Retain these instructions for future reference.

DAYTON[®] GAS INFRA-RED HEATERS

ENGINEERING SUBMITTAL DATA - GAS FIRED INFRA-RED HEATERS.

Model	Input	Gas	Volts	Operating Temp. °F	Square In. Radiant Surface	Recommended Mtg. Hgt.	Net Weight	Ship Weight Truckline	UPS
3E132	30,000	NATURAL	120V.	1780	85 SQ. IN.	12-14 FT.	18#	25#	30#
3E460	30,000	PROPANE	120V.	1780	85 SQ. IN.	12-14 FT.	18#	25#	30#
5VD61	30,000	NATURAL	25V.	1780	85 SQ. IN.	12-14 FT.	18#	25#	30#
5VD62	30,000	PROPANE	25V.	1780	85 SQ. IN.	12-14 FT.	18#	25#	30#
3E133	60,000	NATURAL	120V.	1780	170 SQ. IN.	14-16 FT.	27#	35#	35#
3E461	60,000	PROPANE	120V.	1780	170 SQ. IN.	14-16 FT.	27#	35#	35#
5VD63	60,000	NATURAL	25V.	1780	170 SQ. IN.	14-16 FT.	27#	35#	35#
5VD64	60,000	PROPANE	25V.	1780	170 SQ. IN.	14-16 FT.	27#	35#	35#
3E134	90,000	NATURAL	120V.	1780	255 SQ. IN.	16-18 FT.	36#	46#	70#
3E462	90,000	PROPANE	120V.	1780	255 SQ. IN.	16-18 FT.	36#	46#	70#
5VD65	90,000	NATURAL	25V.	1780	255 SQ. IN.	16-18 FT.	36#	46#	70#
5VD66	90,000	PROPANE	25V.	1780	255 SQ. IN.	16-18 FT.	36#	46#	70#

Project: _____ Date: _____

Location: _____

City: _____ State: _____ Zip: _____

Contractor: _____

Engineer: _____

Local Representative: _____

Customer Name: _____

Address: _____

City: _____ State: _____ Zip: _____ Phone #: _____

Notes: _____



DAYTON GAS INFRA-RED HEATER CONSTRUCTION FEATURES

- Proven design – manufactured for over 30 years
- Mounting chain set included with each unit.
- Exclusive DAYTON ceramic burner provides maximum conversion to radiant energy.
- A.G.A. Design Certified, U.L. Listed, Accepted by F.I.A. and F.M.
- Solid state direct spark ignition system.
- Lower installation cost through compact modular heater design.
- Rugged non-corrosive materials used throughout.
- Proven burner design – over 2,000,000 burners in use.
- Stainless steel re-radiating rods increase heater efficiency.
- Potted control circuitry (120V only) for high moisture applications.

DAYTON GAS INFRA-RED HEATER SPECIFICATIONS

1. HEATER PARAMETERS/SPECIFICATIONS

- A. Gas Infra-Red Heaters shall be DAYTON brand, as supplied by W. W. Grainger, Inc., Niles, IL.
- B. Gas Infra-Red Heaters shall be Designed Certified by the American Gas Association, (AGA), comply with current Occupational Safety and Health Act (OSHA) requirements, and be accepted by Factory Insurance Association (FIA) and Mutual Fire Insurance Companies (FM).
- C. The manufacturer shall provide a published warranty covering the heater's ceramic burner for a minimum five (5) year period and all components utilized in the heater control assembly for a period of one (1) year.
- D. Gas Infra-Red Heaters shall be designed to operate when burning natural gas having a heat value of 5 BTU per cubic foot with a specific gravity of _____, or when burning propane gas having a heat value of 2500 BTU per cubic foot with a specific gravity of 1.53.
- E. The ceramic burner face shall operate at a temperature range of 1660 degrees F. to 1810 degrees F. and shall incorporate a secondary re-radiating surface of stainless steel rods to obtain maximum operating temperature and radiant output.
- F. The manufacturer shall have a minimum of 25 years of manufacturing experience producing gas infra-red heaters.

2. GAS INFRA-RED HEATER BURNER CONTROLS

- A. Gas Infra-Red Heaters shall be equipped with a Direct Spark Ignition System where ignition of the main burner is achieved through a solid state ignition module operating a spark electrode mounted on the ceramic surface of the main burner. Loss of power causes 100% safety shut-off of the main burner(s). System shall operate on 120 or 24 volts (must be specified). Gas inlet shall be 1/2" FPT. Ampere ratings shall be 0.10 amps-120v. units and 0.48 amps-24 volt units.

3. GAS INFRA-RED HEATER CONSTRUCTION

- A. The heater reflector housing shall be constructed of on-side bright high polished aluminum. The emitter shall be composed of a perforated ceramic tile on which combustion takes place on the surface. The burner plenum shall be constructed of aluminized steel of one-piece construction. The heater shall be of a modular design employing multiple burners to achieve a specified input rating.
 - B. The venturi shall be constructed of stainless or aluminized steel.
 - C. The secondary re-radiating rods shall be constructed of high temperature stainless steel alloy placed in close proximity of the ceramic burner face.
-

CLEARANCE TO COMBUSTIBLES**WARNING**

Failure to comply with the stated clearance to combustibles could result in personal injury, death, and/or property damage.

WARNING

This heater should be installed so that the minimum clearances to vehicles, as marked on the heater, will be maintained. If vehicle lifts are present, ensure that these clearances will be maintained from the highest raised vehicle.

In locations used for the storage of combustible materials, signs *must* be posted to specify the maximum permissible stacking height to maintain the required clearances from the heater to the combustibles. Signs must either be posted adjacent to the heater thermostats or in the absence of such thermostats in a conspicuous location.

CLEARANCE TO COMBUSTIBLES

MODEL NO.	SIDE	BACK	TOP	BELOW
30 MBTU/H				
3E132 3E460 5VD61 5VD62	30"	18"	28"	72"
60 MBTU/H				
3E133 3E461 5VD63 5VD64	32"	18"	40"	72"
90 MBTU/H				
3E134 3E462 5VD65 5VD66	48"	30"	42"	98"

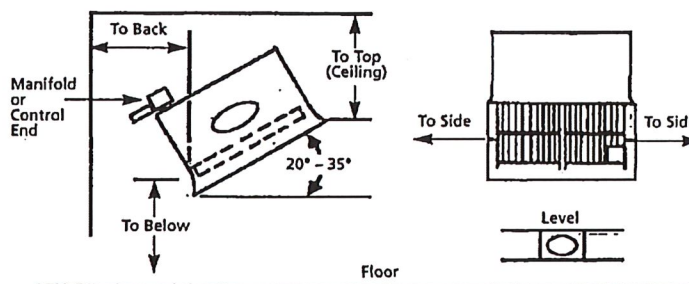
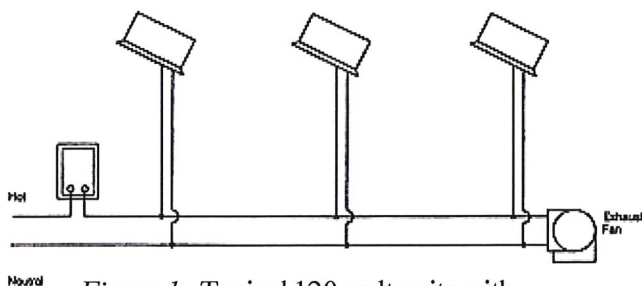
**TYPICAL WIRING DIAGRAMS**

Figure 1 - Typical 120-volt units with thermostat & exhaust.

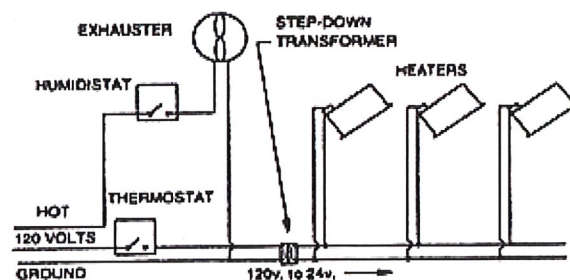
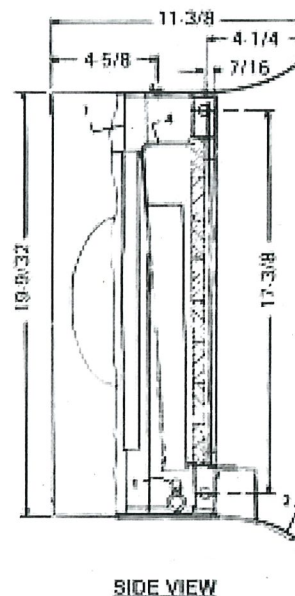
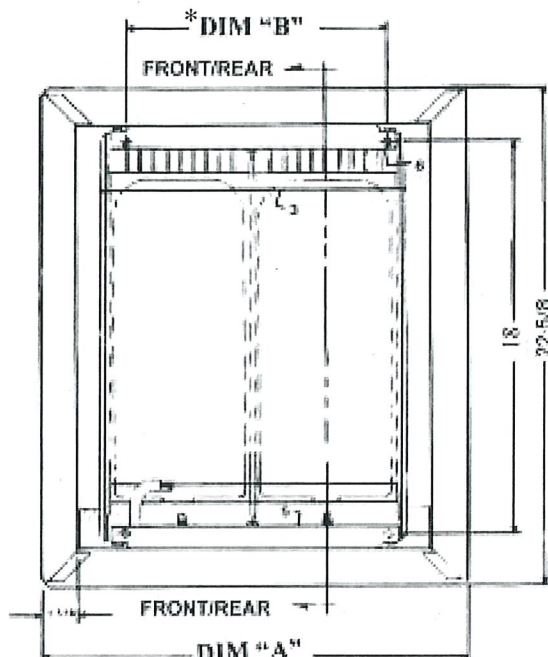


Figure 2 - Typical 24-volt units with 120/24 volt step down transformer, thermostat & exhaust.

DIMENSIONAL INFORMATION



(*) Hanger mounting hole "O.C."

DAYTON GAS INFRA-RED HEATERS					
MODEL #	BTU/H INPUT	GAS TYPE	VOLTAGE	DIM "A"	DIM "B"
3E132	30,000	NATURAL	120V.	12-3/8"	5"
3E460	30,000	PROPANE	120V.	12-3/8"	5"
5VD61	30,000	NATURAL	25V.	12-3/8"	5"
5VD62	30,000	PROPANE	25V.	12-3/8"	5"
3E133	60,000	NATURAL	120V.	18-7/8"	11-1/2"
3E461	60,000	PROPANE	120V.	18-7/8"	11-1/2"
5VD63	60,000	NATURAL	25V.	18-7/8"	11-1/2"
5VD64	60,000	PROPANE	25V.	18-7/8"	11-1/2"
3E134	90,000	NATURAL	120V.	25-3/8"	18"
3E462	90,000	PROPANE	120V.	25-3/8"	18"
5VD65	90,000	NATURAL	25V.	25-3/8"	18"
5VD66	90,000	PROPANE	25V.	25-3/8"	18"