



September 6, 2013

TO: PROSPECTIVE BIDDERS

**REMOVE AND REPLACE FURNACES  
AT THE LINCOLN PARK HARRISON CENTER  
No. P.W. 08-13-22**

**ADDENDUM NO. 1**

**Addendum No. 1** is hereby issued to make the following revision to the plan:

1. Plans:

The following plan is incorporated into the project:

Plan Sheet A-1, Project #2013010, Project Name: Harrison Center,  
Lincoln Park, Alameda, CA 94501, Drawing Title: Site Plans Furnace  
Specification (attached)

APPROVED:

  
\_\_\_\_\_  
Jesse Barajas  
Public Works Superintendent

9/6/2013  
\_\_\_\_\_  
Date

~~~~~  
Receipt is hereby acknowledged of Addendum No. 1, Remove and Replace Furnaces at  
the Lincoln Park Harrison Center, No. P.W. 08-13-22

\_\_\_\_\_  
Company Name / Contractor

Date: \_\_\_\_\_

By: \_\_\_\_\_

**NOTE: THIS COMPLETE ADDENDUM, SIGNED AND DATED MUST BE  
RETURNED WITH YOUR BID.**

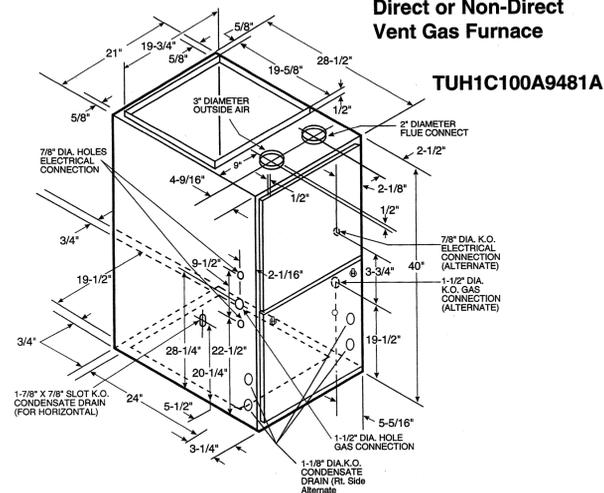


TUH1C100-SUB-1B

TAG: \_\_\_\_\_

### SUBMITTAL

Upflow / Horizontal  
Direct or Non-Direct  
Vent Gas Furnace



| FURNACE AIRFLOW (CFM) VS. EXTERNAL STATIC PRESSURE (in. w.c.) |                      |      |      |      |      |      |      |      |      |      |
|---------------------------------------------------------------|----------------------|------|------|------|------|------|------|------|------|------|
| MODEL                                                         | SPEED TAP            | 0.10 | 0.20 | 0.30 | 0.40 | 0.50 | 0.60 | 0.70 | 0.80 | 0.90 |
| TUH1C100A9481A                                                | 4 - HIGH - Black     | 1982 | 1912 | 1836 | 1761 | 1679 | 1593 | 1498 | 1389 | 1267 |
|                                                               | 3 - MED-HIGH - Blue  | 1892 | 1832 | 1765 | 1696 | 1621 | 1538 | 1446 | 1342 | 1205 |
|                                                               | 2 - MED-LOW - Yellow | 1759 | 1712 | 1660 | 1604 | 1536 | 1465 | 1383 | 1275 | 1149 |
|                                                               | 1 - LOW - Red        | 1593 | 1557 | 1521 | 1485 | 1433 | 1370 | 1294 | 1182 | 1068 |

\* = First letter may be "A" or "T"

| CFM VS. TEMPERATURE RISE |                             |      |      |      |      |      |      |      |      |      |      |
|--------------------------|-----------------------------|------|------|------|------|------|------|------|------|------|------|
| MODEL                    | Cubic Feet Per Minute (CFM) |      |      |      |      |      |      |      |      |      |      |
|                          | 1100                        | 1200 | 1300 | 1400 | 1500 | 1600 | 1700 | 1800 | 1900 | 2000 | 2100 |
| TUH1C100A9481A           | 68                          | 63   | 59   | 55   | 52   | 49   | 46   | 44   |      |      |      |

\* = First letter may be "A" or "T"

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### General Data

| Type                         | Upflow / Horizontal | Vent Pipe Diameter - Min. (in.)    | 3 Round                  |
|------------------------------|---------------------|------------------------------------|--------------------------|
| <b>RATINGS</b>               |                     |                                    |                          |
| Input BTUH                   | 97,000              | Type-Fired                         | Alum. Steel              |
| Capacity BTUH (ICS)          | 92,150              | Type-Untired                       |                          |
| AFUE                         | 95.0                | Gauge (Fired)                      | 20                       |
| Temp. Rise (Min.-Max.) °F    | 35 - 65             | <b>DRIPICES</b> - Main             | 5 - 45                   |
| <b>BLOWER DRIVE</b>          | DIRECT              | Net Gas Qty. - Drill Size          | 5 - 56                   |
| Diameter-Width (in.)         | 10 x 10             | L.P. Gas Qty. - Drill Size         | 5 - 56                   |
| No. Used                     | 1                   | <b>GAS VALVE</b>                   | Redundant - Single Stage |
| Speeds (No.)                 | See Fan Performance | <b>PILOT SAFETY DEVICE</b>         | Hot Surface Ignition     |
| CFM vs. In. w.g.             |                     | Type                               | Multipoint Inshot        |
| Motor HP                     | 1/2                 | <b>BURNERS</b> - Type              | 5                        |
| R.P.M.                       | 1075                | Number                             | 115/160                  |
| Volts/Phz                    | 115/160             | <b>POWER CONN.</b> - V/Phz         | 12.5                     |
| <b>COMBUSTION FAN</b> - Type | Centrifugal         | Amperage (in Amps)                 | 20                       |
| Drive - No. Speeds           | Direct - 1          | Max. Overcurrent Protection (amps) | 1/2                      |
| Motor HP - RPM               | 1/2 - 3450          | <b>PIPE CONN. SIZE (IN.)</b>       | H x W x D                |
| Volts/Phz                    | 115/160             | Created (in.)                      | 41 - 34 x 23 x 30-1/2    |
| F.L. Amps                    | 0.71                | Uncreated (in.)                    | 40 x 21 x 28             |
| <b>FILTER</b> - Furnished?   | No                  | <b>DIMENSIONS</b>                  |                          |
| Type Recommended             | High Velocity       | Shipping (Lbs.) / Net (Lbs)        | 171 / 160                |
| Hi Val. (No.-Size-Thk.)      | 1 - 20x25 - 1in.    |                                    |                          |

Notes:  
 ① Central Furnace heating designs are certified to ANSI Z21.47 / CSA 2.3  
 ② For U.S. applications, above input ratings (BTUH) are up to 2,000 feet, derate 4% per 1,000 feet for elevations above 2,000 feet above sea level.  
 ③ For Canadian applications, above input ratings (BTUH) are up to 4,500 feet, derate 4% per 1,000 feet for elevations above 4,500 feet above sea level.  
 ④ Based on U.S. government standard tests.  
 ⑤ The above wiring specifications are in accordance with National Electrical Code; however, installations must comply with local codes.  
 ⑥ Refer to the Vent Length Table in the Installer's Guide or the Allowable Vent Length label located on the furnace.  
 ⑦ All TUH1 furnace models have a vent outlet diameter that equals 2".

### Mechanical Specifications

**NATURAL GAS MODELS** - Central heating furnace designs are certified by the American Gas Association for both natural and L.P. gas. Limit setting and rating data were established and approved under standard rating conditions using American National Standards Institute standards.

**SAFE OPERATION** - The Integrated System Control has solid state devices, which continuously monitor for presence of flame, when the system is in the heating mode of operation. Slow opening, dual solenoid combination gas valve and regulator provide extra safety and quieter operation.

**QUICK HEATING** - Durable, cycle tested, heavy gauge aluminumized steel heat exchanger and stainless steel secondary heat exchanger quickly transfer over 90% of the heat to provide warm conditioned air to the structure. Low energy power vent blower, to increase efficiency and provide a positive discharge of gas fumes to the outside as it draws outdoor air in for sealed combustion, which means it uses no indoor air for combustion.

**BURNERS** - Multi-port, in-shot burners will give years of quiet and efficient service. All models can be converted to L.P. gas without changing burners.

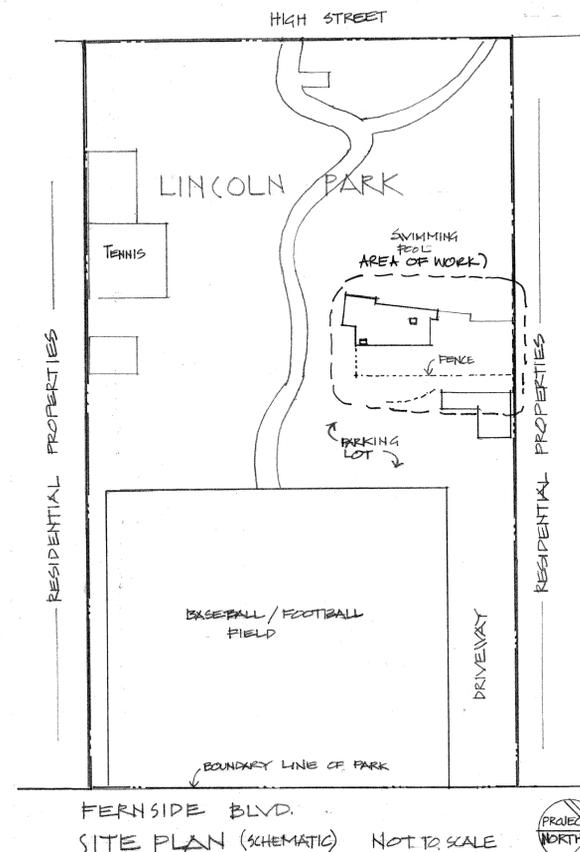
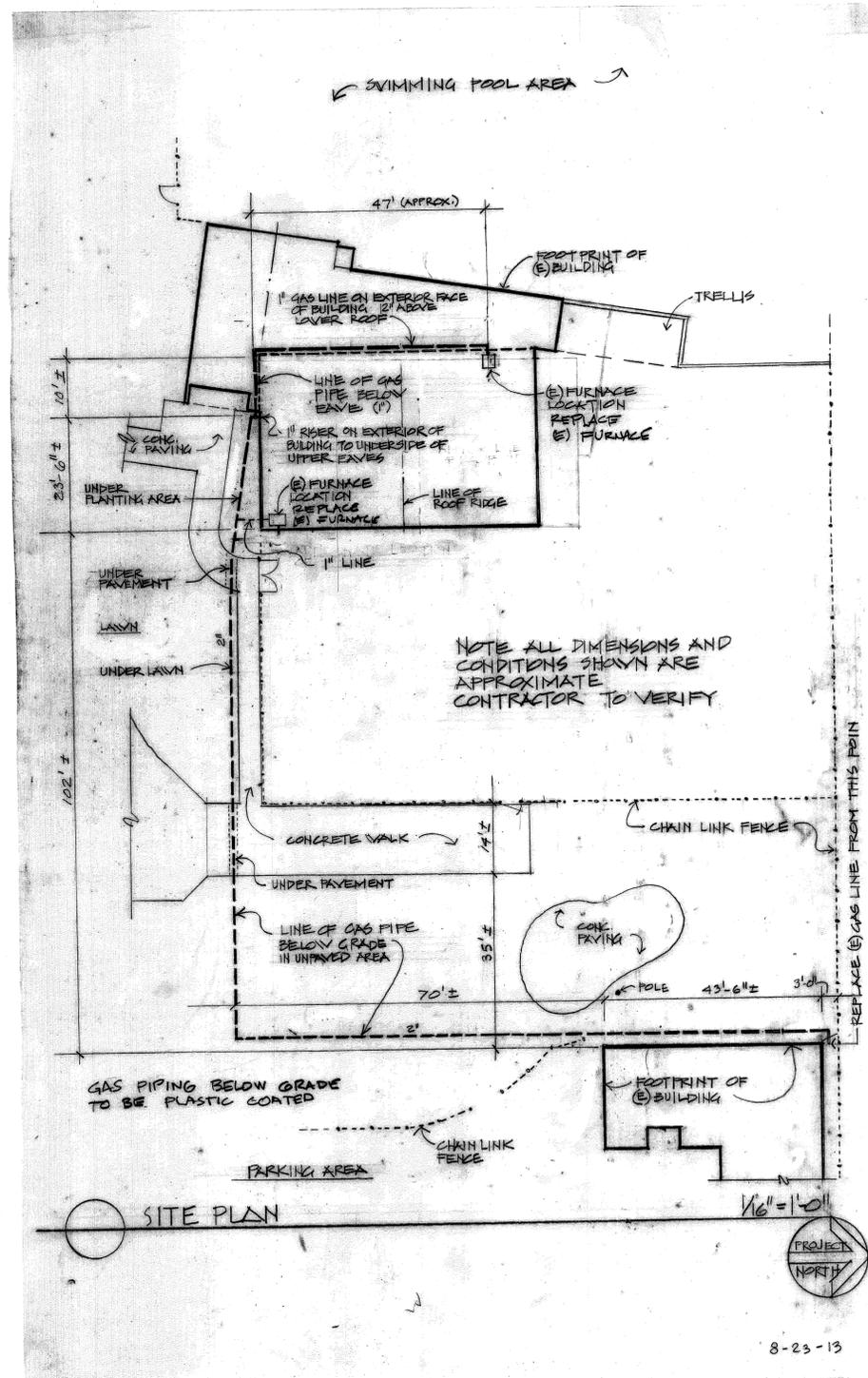
**INTEGRATED SYSTEM CONTROL** - Exclusively designed operational program provides total control of furnace limit sensors, blowers, gas valve, flame control and includes self diagnostics for ease of service. The built-in, selectable "Cooling Fan Off" feature provides time-delay capability like a BAY24X04S Time-Delay Kit for cooling operation. Also contains connection points for E.A.C./humidifier.

**AIR DELIVERY** - The multispeed, direct-drive blower motor, with sufficient airflow range for most heating and cooling requirements, will switch from heating to cooling speeds on demand from room thermostat. The blower door safety switch will prevent or terminate furnace operation when the blower door is removed. (Fan relay and 35VA control transformer is standard).

|                 |                  |
|-----------------|------------------|
| Library         | Utility          |
| Product Section | Furnaces         |
| Product         | Furnace          |
| Model           | TUH1             |
| Literature Type | Submittal        |
| Sequence        | -                |
| Date            | 12/11            |
| File No.        | TUH1C100A-SUB-1B |
| Supersedes      | TUH1C100A-SUB-1A |

Technical Literature - Printed in U.S.A.

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PLANS & SPECIFICATIONS ARE PREPARED AS INSTRUMENTS OF SERVICE FOR THE CLIENT AND ARE THE PROPERTY OF THE ARCHITECT AND SHALL NOT BE USED FOR OTHER WORK WITHOUT THE WRITTEN CONSENT OF THE ARCHITECT.

OWNER:

PROJECT  
HARRISON CENTER  
LINCOLN PARK  
ALAMEDA CA 94501

DRAWING TITLE  
SITE PLANS  
FURNACE SPECIFICATION

REVISIONS:

| No. | DESCRIPTION | DATE |
|-----|-------------|------|
|     |             |      |
|     |             |      |
|     |             |      |
|     |             |      |

PROJECT No.: 2013010

DRAWN BY:

CHECKED BY: IAC

DATE: 8/26/13

SCALE: AS NOTED

A-1

SHEET NO.: ONE OF ONE