

FIRE RATING

1.5 HOURS

1.5 HOURS

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ACTUATION

**FUSIBLE LINK** 

**FUSIBLE LINK** 

**FUSIBLE LINK** 

**FUSIBLE LINK** 

LOCATION SERVICE

SEE PLAN

SEE PLAN

SEE PLAN

SEE PLAN

FIRE DAMPER SCHEDULE

500

1200

1700

DESCRIPTION

SP

0.3

SIZE

10"X10"

12"X12"

24"X24"

**BRAND NAME** 

RUSKIN

RUSKIN

RUSKIN

RUSKIN

TAG SERVICE

FD-2

FD-3

MODEL NUM.

DIBD20G

DIBD20G

DIBD20G

DIBD20G

DIFFUSERS AND GRILLES

## EQUIPMENT SCHEDULE

- TAG | DESCRIPTION \_\_\_ INLINE EXHAUST FAN, FANTEK-FKD-12XL 2 STAGE OPERATIONAL
- SPLIT SYSTEM FURNACE, 80MBH, 3 TON TM9V080B12MP11C
- SPLIT SYSTEM FURNACE, 80 MBH, 4 TON TM9V080C16MP11C W/ ECONOMIZER DUCTED MINI SPLIT HEAT PUMP, 18MBH
- SPLIT SYSTEM FURNACE, 60MBH

SEZKD18NA4

5-18-17 CHANGE MARK NOTES

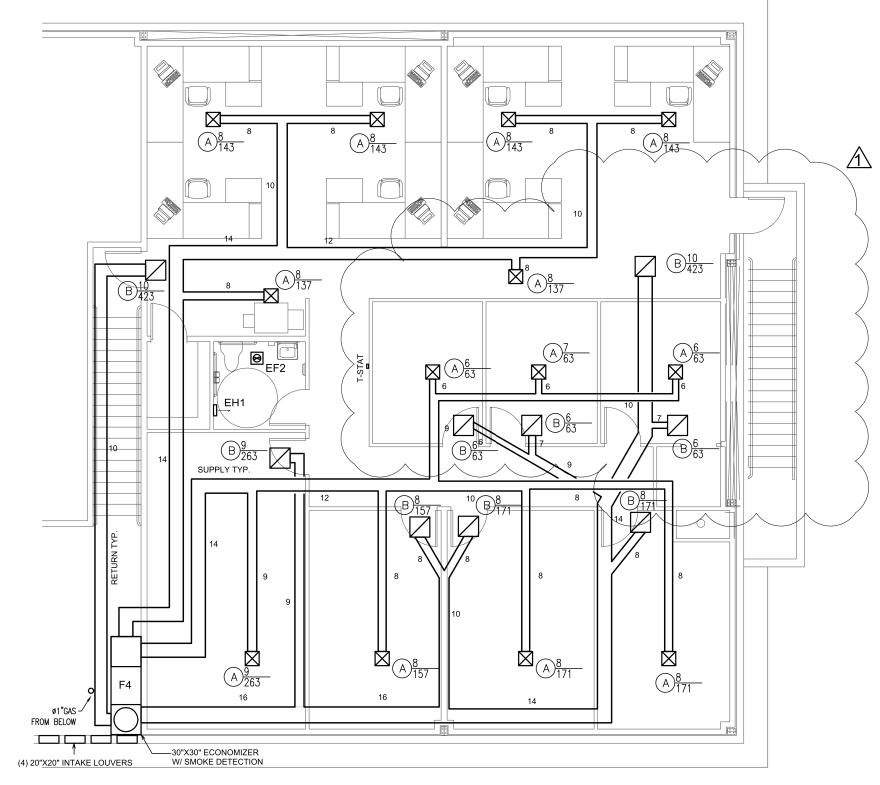
AREAS (ROOMS 108,110,112,114).

. DRAWING IS STAMPED BY ARCHITECT OF RECORD.

. EXPLOSION CONTROL SYSTEM PROVIDED BY OTHERS. RETURN AIR GRILLE REMOVED FROM CO2 EXTRACTION ROOM. EXHAUST SYSTEM

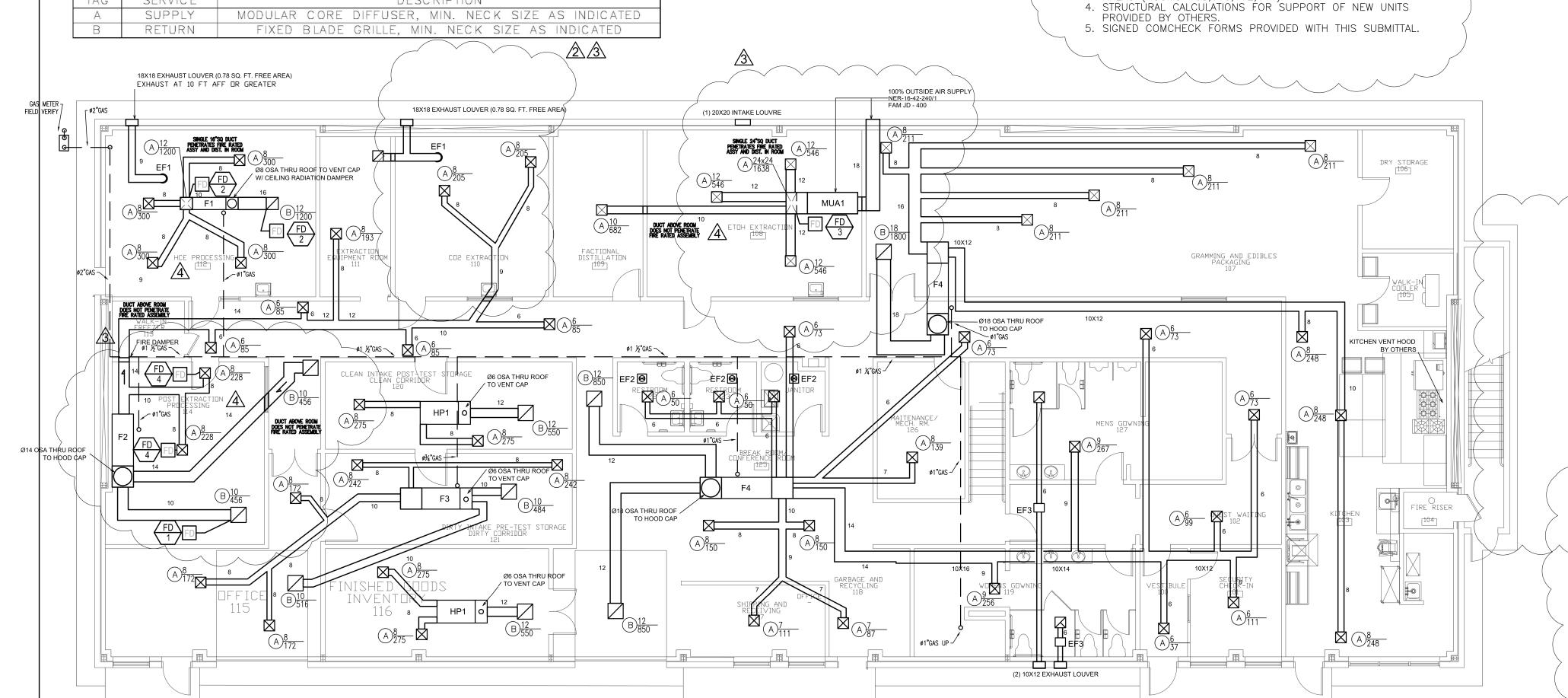
3. FIRE DAMPERS SHOWN ON ALL DUCTS PENETRATING CONTROL

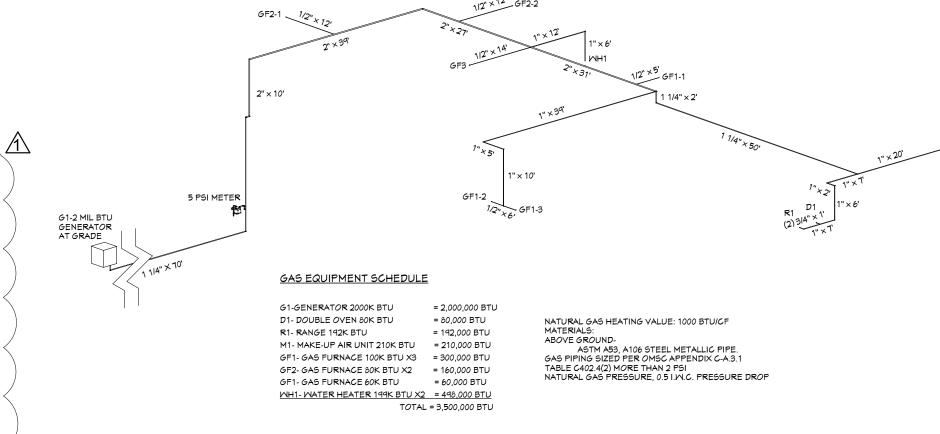
- TM9V060B12MP11C SPLIT SYSTEM FURNACE, 100MBH, 5 TON TM9V100C20MP11C W/ ECONOMIZER
- AND DUCT SMOKE DETECTOR EXHAUST FAN, 50 CFM @ 0.25 IWC
- 4" VENT THRU ROOF TO VENT CAP W/ BACKDRAFT DAMPER
- EF3 INLINE EXHAUST FAN, 200 CFM @ 0.25 IWC
- ELECTRIC MAKE UP AIR UNIT
- MUA1 | WITH INLINE FAN, 42kW, 2320 CFM @ 0.25 IWC NER-16-42-240/1, W/FAM JD - 400
- ELECTRIC WALL HEATER, 120V, 1000W INTEGRAL T-STAT











## GAS PIPING ISOMETRIC M1 NO SCALE

A EXPLOSION CONTROL NOTES

PER NFPA 69 SECTION 9 A PREDEFLAGRATION DETECTION AND CONTROL OF IGNITION SOURCES METHOD HAS BEEN DESIGNED.

HANDLING AND PROCESSES WHERE FLAMMABLE GASES ARE USED SHALL BE RESTRICTED TO THE DESIGNATED CONTROL AREAS AS INDICATED IN THE ARCHITECTURAL DRAWINGS. 3. PER NFPA 69 SECTION 9.1.2 GAS SENSING SYSTEMS HAVE BEEN SPECIFIED AS A MEANS TO MITIGATE RISK OF IGNITION AND TO

CONTROL AND PREVENT DEFLAGRATION. SENSING SYSTEMS ARE SHOWN ON ELECTRICAL DRAWINGS. THESE SYSTEMS ARE INTERLOCKED BY UL LISTED INTERLOCK PANEL PROVIDED BY KIRKLAND DYNAMICS, LLC. KIRKLAND, WASHINGTON. SYSTEM MEETS NFPA 70 ARTICLE 500 SECTION 507.1(K) PROTECTION METHOD. SYSTEM IS INSTALLED IN EACH CONTROL AREA AND ARE COMPLIANT TO NFPA 69 SECTION 9.3.3.1.

4. SEE PROCESS ANALYSIS FOR DEFLAGRATION MITIGATION AND CONTROL PER NFPA 69 SECTION 9.5.

5. DEFLAGRATION PREVENTION AND CONTROL SYSTEM AS PROVIDED BY KIRKLAND DYNAMICS SHALL CONTINUOUSLY MONITOR CONTROL AREAS FOR GAS DETECTION. PROVIDE FOR ACTIVATION OF VENTILATION AND LOCAL ALARM SYSTEMS AS WELL AS REMOVE ALL IGNITION SOURCES WITHIN CONTROL AREAS. SYSTEM SHALL, BE COMMISSIONED AND TESTED BY KIRKLAND DYNAMICS

GENERAL NOTES:

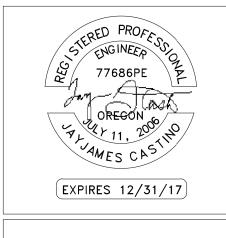
THIS DRAWING IS DIAGRAMMATIC. ALL LOCATIONS ARE APPROXIMATE. BEFORE INSTALLATION, VERIFY ALL ITEMS WITH CONDITIONS AT SITE. THIS DRAWING WAS PREPARED WITH INFORMATION PROVIDED BY OTHERS. RESPONSIBILITY FOR CORRECT INSTALLATION AND LOCATION RESTS WITH MECHANICAL CONTRACTOR.

PLUMBER SHALL ROUTE ALL CONDENSATE DRAINS TO NEAREST APPROVED RECEPTACLE, INCLUDING CONDENSATE PUMPS AS

MECHANICAL CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND DUCT IN ACCORDANCE WITH ALL APPLICABLE STATE AND LOCAL

MECHANICAL CONTRACTOR SHALL COORDINATE WITH ALL TRADES FOR EQUIPMENT AND DUCT INSTALLATION. MECHANICAL CONTRACTOR SHALL FIELD VERIFY ACCESSIBILITY FOR DUCT & EQUIPMENT INSTALLATION.

PLACE NEW CEILING DIFFUSERS AND RETURN GRILLES TO AVOID EXISTING LIGHT FIXTURES. PROVIDE INTERIOR DUCT LINING FOR AT LEAST FIRST 5 DUCT DIAMETERS ON ALL NEW MAIN SUPPLY TRUNK DUCTING.



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**REVISIONS** <u>/1</u>\ 3-1-17 <u>2</u> 4-26-17 <u>/3</u>\ 5-18-17 DRAWING:

**MECHANICAL SHEET** 

CHC M-00 DATE: 12/9/2016

1 OF 1

LOWER FLOOR MECHANICAL PLAN