MECHANICAL GENERAL NOTES:

1. CONTRACTOR SHALL CONFORM TO ALL LOCAL, STATE, AND APPLICABLE CODES. WORK SHALL BE INSTALLED IN A WORKMAN LIKE FASHION.
2. DUCTWORK SHALL CONFORM TO ALL SMACNA STANDARDS.
3. FLEX DUCT SHALL NOT EXCEED 8'-0".
4. DUCTWORK AND PIPING INSULATION SHALL RUN CONTINUOUSLY THROUGH PENETRATIONS. CONTRACTOR TO PROVIDE NECESSARY SLEEVES AND FLASHING AT WALL PENETRATIONS.
5. CONTRACTOR SHALL MAINTAIN A DISTANCE OF 10'0" BETWEEN ALL OUTDOOR DUCTS, INTAKES VS. EXHAUST DUCTS AND PLUMBING VENTS.
6. PRIOR TO BID OR CONSTRUCTION, CONTRACTOR SHALL FAMILIARIZE THEMSELVES WITH THE PROJECT CONDITIONS AND PROJECT DRAWINGS. CONTRACTOR SHALL NOTIFY OWNER AND ENGINEER, PRIOR TO BID, OF ANY DISCREPANCIES BETWEEN PLAN AND FIELD CONDITIONS.
7. LOCATE DIFFUSERS AND GRILLES TO ACCOMMODATE LIGHTING LAYOUT. RE: ARCH.
8. CONTRACTOR TO PROVIDE ALL REQUIRED OFFSETS AND FITTINGS REQUIRED TO PROVIDE COMPLETE DESIGN. MECHANICAL DRAWINGS ARE SCHEMATIC IN NATURE. CONTRACTOR TO PROVIDE SHOP DRAWINGS AND AS-BUILTS AS NECESSARY.
9. ALL DUCTWORK AND PIPING TO BE PROPERLY SUPPORTED AND SECURED.
10. ALL DAMPERS (BALANCING, FIRE, CONTROL, ETC.) SHALL BE LOCATED ABOVE ACCESSIBLE CEILINGS OR CONTRACTOR SHALL PROVIDE A CEILING ACCESS DOOR.
11. DUCT DIMENSIONS SHOWN ON PLAN ARE INTERNAL DIMENSIONS.
12. PROVIDE VOLUME DAMPERS AT BRANCH CONNECTIONS. VOLUME DAMPERS SHALL BE LOCATED AS NEAR AS POSSIBLE TO BRANCH TAKE-OFF AND SHALL BE ACCESSIBLE VIA ACCESS PANEL IN SOLID FINISH CEILING OR VIA REMOTE ACTUATOR. DAMPERS LOCATED ABOVE REMOVABLE CEILING PANELS SHALL BE MANUAL TYPE.
13. PROVIDE VOLUME DAMPERS FOR EACH DIFFUSER. CEILING DIFFUSERS INSTALLED IN HARD CEILINGS SHALL BE PROVIDED WITH REMOTELY CONTROLLED VOLUME DAMPER.
14. CONTRACTOR SHALL NOTIFY AND COORDINATE WITH OWNER FOR ANY SUBSTITUTIONS OR ENTRY INTO SPACES TO ROUTE DUCTWORK OR PIPING THAT IS REQUIRED.
15. CONTRACTOR SHALL VERIFY THAT ALL HVAC COMPONENTS MEET SPACING AND CLEARANCE REQUIREMENTS PER EQUIPMENT MANUFACTURER'S INSTRUCTIONS.

MECHANICAL KEY NOTES:

NOTE: ALL KEYNOTES MAY NOT BE USED ON THIS SHEET.

[1] 4" Ø BATHROOM VENT CONNECTED TO EXHAUST FAN AND RUN THROUGH EXTERIOR WALL. USE 26 GAUGE GALVANIZED METAL DUCT. SEAL ALL DUCT PENETRATIONS THROUGH FIRE RATED CEILINGS AND WALLS WITH FIRE RETARDANT SEALER IN ACCORDANCE WITH NFPA AND CITY REQUIREMENTS. TERMINATE AT EXTERIOR WITH WALL CAP AND BACKDRAFT DAMPER.

[2] THERMOSTAT, SIMILAR TO HONEYWELL RTH6580WF. REFER TO ARCHITECTURAL DRAWINGS AND LOCAL CODES FOR MOUNTING HEIGHT. THERMOSTAT TO BE CONNECTED TO MOTORIZED CONTROL DAMPER ASSOCIATED WITH RESPECTIVE FLOOR.

[3] 4" Ø DRYER VENT CONNECTED TO EXHAUST FAN AND RUN TO ROOF. USE 26 GAUGE GALVANIZED METAL DUCT. SEAL ALL DUCT PENETRATIONS THROUGH FIRE RATED CEILINGS AND WALLS WITH FIRE RETARDANT SEALER IN ACCORDANCE WITH NFPA AND CITY REQUIREMENTS. TERMINATE AT BUILDING EXTERIOR WITH ROOF CAP.

[4] 4" Ø OUTSIDE AIR DUCT CONNECTED CONNECTED TO AHU INLET. USE 26 GAUGE GALVANIZED METAL DUCT. SEAL ALL DUCT PENETRATIONS THROUGH FIRE RATED CEILINGS AND WALLS WITH FIRE RETARDANT SEALER IN ACCORDANCE WITH NFPA AND CITY REQUIREMENTS. TERMINATE AT BUILDING EXTERIOR WITH 6"x6" OR EQUIVALENT WALL CAP WITH BACKDRAFT DAMPER, SIMILAR TO ACTIVE VENTILATION WV-4. OUTSIDE AIR INLETS TO BE LOCATED A MINIMUM OF 10' AWAY FROM ALL BUILDING EXHAUSTS AND PLUMBING VENTS.

[5] AIR HANDLING UNIT LOCATED WITHIN ATTIC. PROVIDE MANUFACTURER'S RECOMMENDED CLEARANCES FOR MAINTENANCE, ACCESSIBILITY, AND AHU REMOVAL. ROUTE 3/4" CONDENSATE DRAIN PIPING TO NEAREST DRAIN RECEPTACLE. INSTALL WITH FIELD OR FACTORY ASSEMBLED DRAIN PAN. ROUTE EMERGENCY DRAIN PIPING OUTSIDE OF BUILDING.

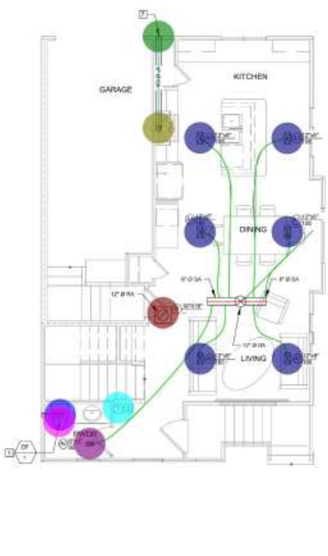
[6] PROVIDE MANUFACTURER'S RECOMMENDED CLEARANCES FOR MAINTENANCE, ACCESSIBILITY, AND AIR FLOW. PROVIDE REFRIGERANT SUCTION AND DISCHARGE PIPING SIZED AND INSULATED PER MANUFACTURER'S RECOMMENDATIONS.

[7] 6" Ø KITC… MICROW… OR WITH… DUCT. SE… RATED C… SEALER… REQUIRE… WITH SA… CAP.

[8] BACKDRA… TO TOP… BYPASS… ENGAGE… AIR DISC…

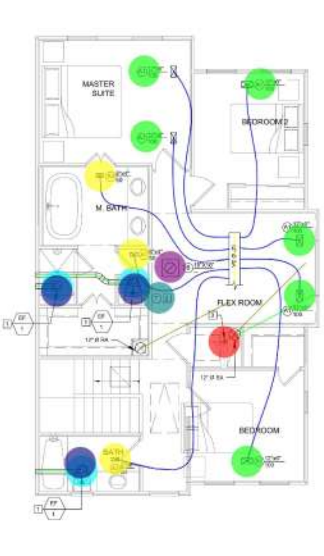
[9] AUTOMA… ARD1272… THERMO…

[10] PROVIDE… SENSOR… TO RESP… FURNACE… CONTRO…



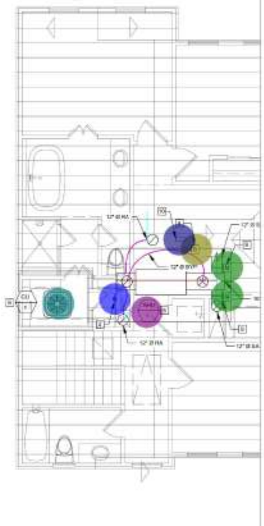
1 LEVEL 1 MECHANICAL FLOOR PLAN - UNIT A

1/4" = 1'0"



2 LEVEL 2 MECHANICAL FLOOR PLAN - UNIT A

1/4" = 1'0"



3 ROOF MECHANICAL FLOOR PLAN -

1/4" = 1'0"

Mechanical	0.0 FT	
4" Dia 26 Gauge Galvanize...	1.7 FT	
6" Dia 26 Gauge Galvanize...	8.3 FT	
8" Dia Air Supply Duct	5.3 FT	
12" Dia BYP.Flexible Duct	75.1 FT	
Fixtures	0.0 FT	
EF1-Ceiling Mounted Exhaust F	1.0	
Wall Cap & Backdraft Damper	1.0	
Thermostat	1.0	
18" x 18" Return GrilleManuf...	1.0	
Exhaust Hood	1.0	
6" x 6" Wal Cap W/ Backdraft...	1.0	
12" x 6" Air Diffuser	6.0	
8" x 4" Air Diffuser	1.0	
Level-02	0.0 FT	
4" Dia 26 Gauge Galvaniz...	24.4 FT	
12" Dia 26 Gauge Galvaniz...	4.8 FT	
12" Dia BYP. Flexible Duct	133.9 FT	
Fixtures	0.0 FT	
EF1-Ceiling Mounted Exhaust F	3.0	
12" Dia 26 Gauge Galvaniz...	9.1 FT	
12" Dia 26 Gauge Galvani...	18.2 FT	
Wall Cap & Backdraft Damper	3.0	
18" x 18" Return Grille	1.0	
Thermostat	1.0	
Roof Cap	1.0	
12" x 6" Air Diffuser	6.0	
8" x 4" Air DiffuserManufactur...	3.0	
Roof Level	0.0 FT	
12" Dia BYP	18.2 FT	
12" Dia 26 Gauge Galvani...	12.2 FT	
16" Dia 26 Gauge Galvaniz...	9.1 FT	
Automatic Control Damper	2.0	
Backdraft Damper	1.0	
Control Panel	1.0	
AHU1-Air Handler Unit	1.0	
CU1-Condensing Unit	1.0	
6" x 6" Wall Cap W/ Backdraf...	1.0	

MECHANICAL FLOOR PLAN

M200

MECHANICAL GENERAL NOTES:

1. CONTRACTOR SHALL CONFORM TO ALL LOCAL, STATE, AND APPLICABLE CODES. WORK SHALL BE INSTALLED IN A WORKMAN LIKE FASHION.
2. DUCTWORK SHALL CONFORM TO ALL SMACNA STANDARDS.
3. FLEX DUCT SHALL NOT EXCEED 8'-0".
4. DUCTWORK AND PIPING INSULATION SHALL RUN CONTINUOUSLY THROUGH PENETRATIONS. CONTRACTOR TO PROVIDE NECESSARY SLEEVES AND FLASHING AT WALL PENETRATIONS.
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2. THERMOSTAT, SIMILAR TO HONEYWELL RTH6580WF. REFER TO ARCHITECTURAL DRAWINGS AND LOCAL CODES FOR MOUNTING HEIGHT. THERMOSTAT TO BE CONNECTED TO MOTORIZED CONTROL DAMPER ASSOCIATED WITH RESPECTIVE FLOOR.
3. 4" Ø DRYER VENT CONNECTED TO EXHAUST FAN AND RUN TO ROOF. USE 26 GAUGE GALVANIZED METAL DUCT. SEAL ALL DUCT PENETRATIONS THROUGH FIRE RATED CEILINGS AND WALLS WITH FIRE RETARDANT SEALER IN ACCORDANCE WITH NFPA AND CITY REQUIREMENTS. TERMINATE AT BUILDING EXTERIOR WITH ROOF CAP.
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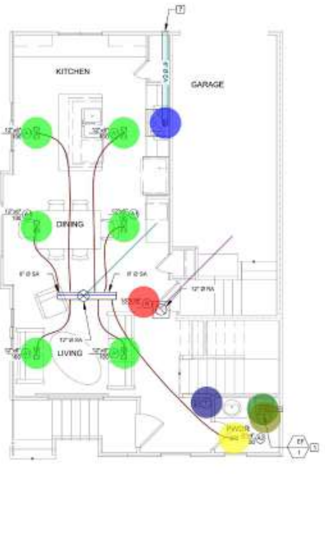
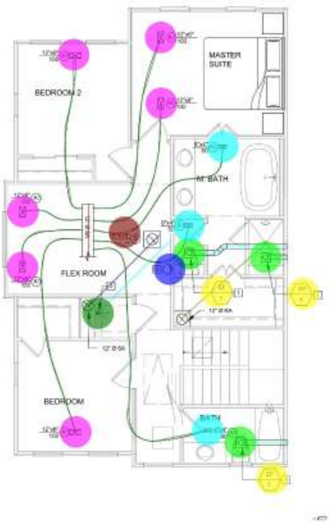


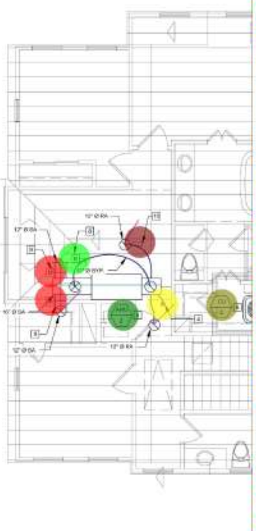
1 LEVEL 1 MECHANICAL FLOOR PLAN - UNIT E

1/4" = 1'0"



2 LEVEL 2 MECHANICAL FLOOR PLAN - UNIT E

1/4" = 1'0"



3 ROOF MECHANICAL FLOOR PLAN

1/4" = 1'0"

Unit E	0.0 FT	
Level-01	0.0 FT	
8" Dia Air Supply Duct	5.3 FT	
4" Dia 26 Gauge Galvanized M...	1.8 FT	
6" Dia 26 Gauge Galvanized M...	8.3 FT	
12" Dia BYP. Flexible Duct	74.9 FT	
Wall Cap & Backdraft Damper	1.0	
EF1-Ceiling Mounted Exhaust Fan	1.0	
Thermostat	1.0	
12" Dia Air Return Duct	9.2 FT	
12" Dia Air Supply Duct	9.3 FT	
18" x 18" Return Grille	1.0	
12" x 6" Air DiffuserManufacturer:...	6.0	
8" x 4" Air Diffuser	1.0	
6" x 6" Wal Cap W/ Backdraft Da...	1.0	
Level-02	0.0 FT	
4" Dia 26 Gauge Galvanized ...	24.5 FT	
12" Dia 26 Gauge Galvanized ...	4.9 FT	
12" Dia BYP. Flexible Duct	135.3 FT	
12" Dia Air Return Duct	9.2 FT	
12" Dia Air Supply Duct	9.1 FT	
Fixtures	0.0 FT	
Fixtures	0.0 FT	
Wall Cap & Backdraft Damper	3.0	
EF1-Ceiling Mounted Exhaust Fan	3.0	
Thermostat	1.0	
12" x 6" Air Diffuser	6.0	
8" x 4" Air Diffuser	3.0	
18" x 18" Return GrilleManufactur...	1.0	
Roof Cap	1.0	
Roof Level	0.0 FT	
12" Dia BYP. Flexible Duct	18.7 FT	
12" Dia 26 Gauge Galvanized ...	12.3 FT	
16" Dia 26 Gauge Galvanized ...	9.8 FT	
Automatic Control Damper	2.0	
Backdraft Damper	1.0	
6" x 6" Wall Cap W/ Backdraft Da...	1.0	
Fixtures	0.0 FT	
Control Panel	1.0	
AHU2-Air Handling Unit	1.0	
CU2-Condensing Unit	1.0	

MECHANICAL FLOOR PLAN

M201

MECHANICAL GENERAL NOTES:

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3. FLEX DUCT SHALL NOT EXCEED 8'-0".
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NOTE: ALL KEYNOTES MAY NOT BE USED ON THIS SHEET.

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2. THERMOSTAT. SIMILAR TO HONEYWELL RTH6580WF. REFER TO ARCHITECTURAL DRAWINGS AND LOCAL CODES FOR MOUNTING HEIGHT. THERMOSTAT TO BE CONNECTED TO MOTORIZED CONTROL DAMPER ASSOCIATED WITH RESPECTIVE FLOOR.
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4. 4" Ø OUTSIDE AIR DUCT CONNECTED CONNECTED TO AHU INLET. USE 26 GAUGE GALVANIZED METAL DUCT. SEAL ALL DUCT PENETRATIONS THROUGH FIRE RATED CEILINGS AND WALLS WITH FIRE RETARDANT SEALER IN ACCORDANCE WITH NFPA AND CITY REQUIREMENTS. TERMINATE AT BUILDING EXTERIOR WITH 6"x6" OR EQUIVALENT WALL CAP WITH BACKDRAFT DAMPER, SIMILAR TO ACTIVE VENTILATION RV-4. OUTSIDE AIR INLETS TO BE LOCATED A MINIMUM OF 10' AWAY FROM ALL BUILDING EXHAUSTS AND PLUMBING VENTS.
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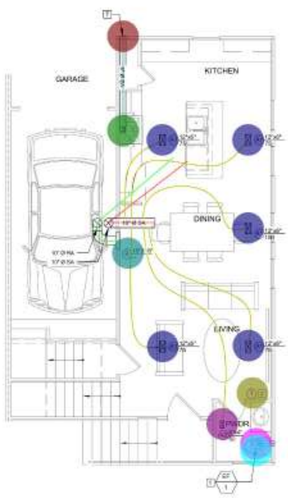
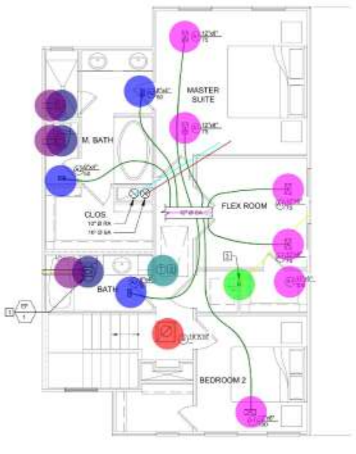
7. 6" Ø KITCH… MICROWA… OR WITHI… DUCT. SEA… RATED CE… SEALER I… REQUIRE… WITH BAC… CAP.
8. BACKDRA… TO TOP O… BYPASS I… ENGAGED… AIR DISCH…
9. AUTOMAT… ARD1272… THERMOS…
10. PROVIDE… SENSORS… TO RE-PR… FURNACE… CONTROL…



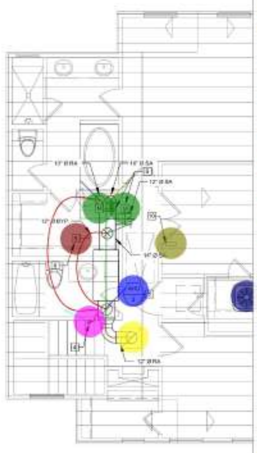
1 LEVEL 1 MECHANICAL FLOOR PLAN - UNIT B,C,D

1/4" = 1'0"



2 LEVEL 2 MECHANICAL FLOOR PLAN - UNIT B,C,D

1/4" = 1'0"



3 ROOF MECHANICAL FLOOR PLAN - …

1/4" = 1'0"

Unit B.C & D (Typical)	0.0 FT
4" Dia 26 Gauge Galvanized Metal ...	1.7 FT
6" Dia 26 Gauge Galvanized Metal ...	8.5 FT
10" Dia Air Supply Duct	13.4 FT
10" Dia Returning Air Duct	12.5 FT
12" Dia BYP. Flexible Duct	87.6 FT
Fixtures	0.0 FT
• EF1-Ceiling Mounted Exhaust FanM...	1.0
• Wall Cap & Backdraft Damper	1.0
• Exhaust Hood	1.0
• 6" x 6" Wal Cap W/ Backdraft Damper	1.0
• Thermostat	1.0
• 12" x 6" Air Diffuser	5.0
• 8" x 4" Air DiffuserManufacturer: Titu...	1.0
• 18" x 18" Return Grille	1.0
Level-02	0.0 FT
Level-01	0.0 FT
4" Dia 26 Gauge Galvanized Meta...	16.7 FT
12" Dia Air Supply Duct	4.3 FT
10" Air Return Duct	9.1 FT
10" Dia Supply Air Duct	9.2 FT
12" Dia BYP. Flexible Duct	95.7 FT
Fixtures	0.0 FT
• EF1-Ceiling Mounted Exhaust Fan	3.0
• Wall Cap & Backdraft Damper	3.0
• Thermostat Manufacturer: HoneyWel...	1.0
• 18" x 18" Return Grille	1.0
• Roof Cap	1.0
• 8" x 4" Air Diffuser	3.0
• 12" x 6" Air Diffuser	6.0
Roof Level	0.0 FT
12" Dia Return Air Duct	3.7 FT
14" Supply Air Duct	12.5 FT
10" Supply Air Duct	3.5 FT
10" Dia Return Air Duct	5.3 FT
12" Dia Supply Air Duct	2.5 FT
12" Dia BYP. Flexible Duct	28.0 FT
Fixtures	0.0 FT
• Return Air Grille	1.0
• AHU3	1.0
• Wall Cap W/ Backdraft Damper	1.0
4" Dia 26 Gauge Galvanized Metal ...	2.5 FT
• Backdraft Damper	1.0
• Automatic Control Damper	2.0
• Control Panel	1.0
• CU1	1.0

MECHANICAL FLOOR PLAN

M202

GENERAL NOTES:

1. CONTRACTOR SHALL CONFORM TO ALL LOCAL, STATE, AND APPLICABLE CODES. WORK SHALL BE INSTALLED IN A WORKMAN LIKE FASHION.
2. PIPING INSULATION SHALL RUN CONTINUOUSLY THROUGH PENETRATIONS. CONTRACTOR TO PROVIDE NECESSARY SLEEVES AND FLASHING AT WALL PENETRATIONS.
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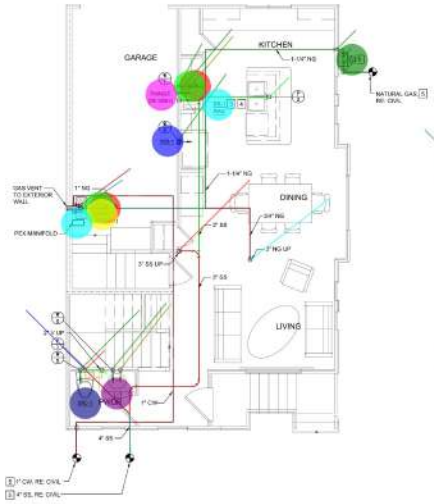
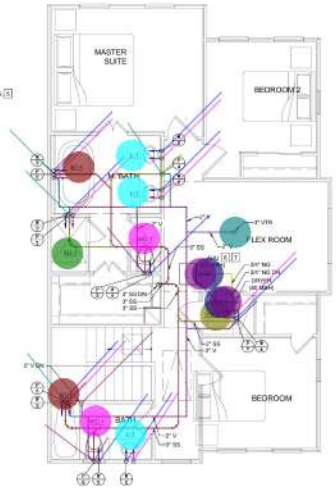
5. ALL PIPING TO BE PROPERLY SUPPORTED AND SECURED.
6. PIPE DIMENSIONS SHOWN ON PLANS ARE INTERNAL DIMENSIONS.
7. CONTRACTOR SHALL VERIFY THAT ALL PLUMBING COMPONENTS MEET SPACING AND CLEARANCE REQUIREMENTS PER EQUIPMENT MANUFACTURER'S INSTRUCTIONS.
8. ALL COLD AND HOT WATER PIPING SHALL BE INSULATED. SEE SPECIFICATION FOR INSULATION REQUIREMENTS.
9. ALL HAND SINKS AND LAVATORIES SHALL BE PROVIDED WITH "TMV" THERMOSTATIC MIXING VALVES. RE: PLBG SCHEDULES
10. PROVIDE AND INSTALL 1/4 TURN SHUT OFF VALVE OR INTEGRAL SHUT OFF VALVE AT EACH WATER SUPPLY CONNECTION TO EACH PLUMBING FIXTURE OR EQUIPMENT.
11. ALL WATER TAPS TO PLUMBING FIXTURES SHALL BE DOWNSTREAM OF WATER METER.
12. REFER TO ARCHITECTURAL AND MILLWORK DRAWINGS FOR DETAILS OF COUNTERTOPS, CASEWORK, AND OTHER FIXTURES SHOWING EXACT LOCATION OF OPENINGS FOR PLUMBING ITEMS BEING INSTALLED. COORDINATE THE COMPLETE INSTALLATION WITH THE GENERAL CONTRACTOR.
13. ALL PENETRATIONS IN FIRE RATED WALL ASSEMBLIES SHALL BE SEALED WITH UL LISTED FIRE STOPPING MATERIAL.
14. PLUMBING CONTRACTOR TO ARRANGE AND PAY FOR ALL REQUIRED FEES, PERMITS, AND MISCELLANEOUS COSTS ASSOCIATED WITH THE PLUMBING WORK PER LOCAL PLUMBING CODES.

SHEET NOTES:

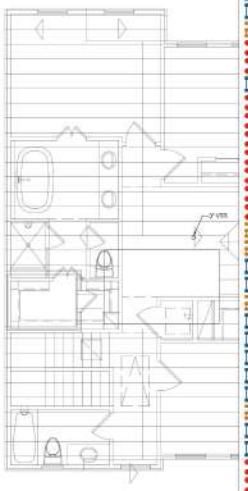
1. INSTALL PIPING UNDERGROUND TO / FROM ISLAND SINK
2. PIPING TO / FROM UNDERGROUND TO / FROM ABOVE CEILING
3. PROVIDE AND INSTALL GARBAGE DISPOSAL TO KITCHEN SINK TRAP PER GARBAGE DISPOSAL MANUFACTURER'S INSTRUCTIONS.
4. CONNECT DISHWASHER DRAIN TO KITCHEN SINK TRAP PER DISHWASHER MANUFACTURER'S INSTRUCTIONS.
5. CONNECTION OF STORM / SEWER / WATER WITH UTILITIES SHALL BE VERIFIED BY CONTRACTOR PRIOR TO ORDERING OR INSTALLATION OF ANY MATERIALS
6. INSTALL 1/2" NATURAL GAS CONNECTION TO APPLIANCE PER MANUFACTURER'S INSTRUCTIONS. PROVIDE LOCAL SHUT OFF VALVE. PROVIDE ADDITIONAL EQUIPMENT, SUCH AS LOCAL GAS REGULATOR, THERMOSTATIC GAS VALVE, ETC. PER MANUFACTURERS REQUIREMENTS.
7. AIR INTAKE AND FLUE VENT PIPES FROM GAS FURNACE TO EXTERIOR WALL. TERMINATE WITH CONCENTRIC SIDEWALL VENT KIT BY GAS FURNACE MANUFACTURER. PROVIDE ADEQUATE DISTANCE BETWEEN COMBUSTION AIR AND FLUE VENT PER MANUFACTURER'S STANDARDS AND NFPA.
8. PROVIDE GAS METER FOR AS REQUIRED BY CITY. CONTRACTOR TO PAY ALL FEES ASSOCIATED WITH INSTALLATION OF METER. FIELD COORDINATE METER LOCATION WITH UTILITY PROVIDER AND ARCHITECT PRIOR TO ROUGH IN.



1 LEVEL 1 PLUMBING FLOOR PLAN - UNIT A



2 LEVEL 2 PLUMBING FLOOR PLAN - UNIT A



3 ROOF PLUMBING FLOOR PLAN - U

Plumbing	0.0 FT
Unit A	0.0 FT
Level-01	0.0 FT
Domestic Piping	0.0 FT
1" CW Pipe	48.5 FT
1/2" CW Pipe	35.5 FT
1/2" HW Pipe	17.7 FT
Sanitary & Vent Piping	0.0 FT
4" San Pipe	4.0 FT
3" San Pipe	39.5 FT
2" San Pipe	25.2 FT
1-1/2" Vent Pipe	2.9 FT
2" Vent Pipe	7.6 FT
Gas Piping	0.0 FT
3" NG Pipe	9.1 FT
3/4" NG Pipe	8.8 FT
1-1/4" NG Pipe	45.3 FT
Fixtures	0.0 FT
WC-1 Water Closet- 1.28 GPF Two Piece ...	1.0
L-1 Lavatory	1.0
1" NG Pipe	15.8 FT
Ball Valve	2.0
Union	2.0
IWGH-1 Gas Tankless Water Heater	1.0
WB-1 Water Box(For Ice Maker)- One Piec...	1.0
Kitchen Range	1.0
SK-1 Sink	1.0
Gas Meter W/ Regulator	1.0
Level-02	0.0 FT
Domestic Piping	0.0 FT
1/2" CW Pipe	79.0 FT
1/2" HW Pipe	61.5 FT
Sanitary & Vent Piping	0.0 FT
3" San Pipe	62.2 FT
2" San Pipe	27.3 FT
1-1/2" San Pipe	2.6 FT
2" Vent Pipe	86.2 FT
1-1/2" Vent Pipe	33.6 FT
Gas Piping	0.0 FT
1/2" NG Pipe	6.3 FT
3/4" NG Pipe	3.3 FT
WC-1 Water Closet- 1.28 GPF Two Piece ...	2.0
L-1 Lavatory	3.0
BT-1 Bath Tub	2.0
SH-1 Shower- Bathtub Shower W/ Drain 1....	1.0
WB-2 Water Box(ForWashing Machine)	1.0
Ball Valve	2.0
Union	2.0
3" VTR	1.0
Gas Vent	1.3 FT
Pex Manifold	1.0

PLUMBING FLOOR PLAN -SEWER & VENT

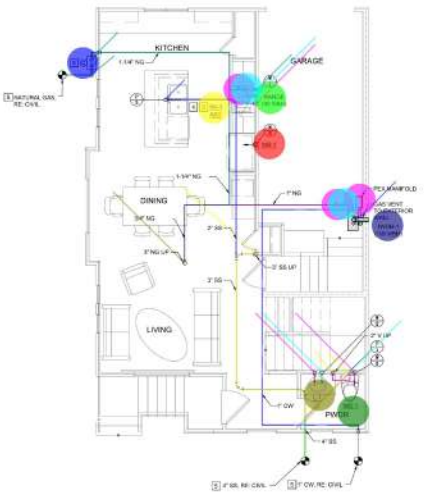
P200

GENERAL NOTES:

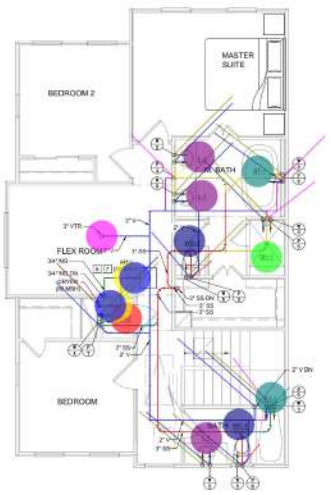
1. CONTRACTOR SHALL CONFORM TO ALL LOCAL, STATE, AND APPLICABLE CODES. WORK SHALL BE INSTALLED IN A WORKMAN LIKE FASHION.
2. PIPING INSULATION SHALL RUN CONTINUOUSLY THROUGH PENETRATIONS. CONTRACTOR TO PROVIDE NECESSARY SLEEVES AND FLASHING AT WALL PENETRATIONS.
3. PRIOR TO BID OR CONSTRUCTION, CONTRACTOR SHALL FAMILIARIZE THEMSELVES WITH THE PROJECT CONDITIONS AND PROJECT DRAWINGS. CONTRACTOR SHALL NOTIFY OWNER AND ENGINEER, PRIOR TO BID, OR ANY DISCREPANCIES BETWEEN PLAN AND FIELD CONDITIONS.
4. CONTRACTOR TO PROVIDE ALL REQUIRED OFFSETS AND FITTINGS REQUIRED TO PROVIDE COMPLETE DESIGN. PLUMBING DRAWINGS ARE SCHEMATIC IN NATURE. CONTRACTOR TO PROVIDE SHOP DRAWINGS AND AS-BUILTS AS NECESSARY.
5. ALL PIPING TO BE PROPERLY SUPPORTED AND SECURED.
6. PIPE DIMENSIONS SHOWN ON PLANS ARE INTERNAL DIMENSIONS.
7. CONTRACTOR SHALL VERIFY THAT ALL PLUMBING COMPONENTS MEET SPACING AND CLEARANCE REQUIREMENTS PER EQUIPMENT MANUFACTURER'S INSTRUCTIONS.
8. ALL COLD AND HOT WATER PIPING SHALL BE INSULATED. SEE SPECIFICATION FOR INSULATION REQUIREMENTS.
9. ALL HAND SINKS AND LAVATORIES SHALL BE PROVIDED WITH "TMV" THERMOSTATIC MIXING VALVES. RE: PLBG SCHEDULES
10. PROVIDE AND INSTALL 1/4 TURN SHUT OFF VALVE OR INTEGRAL SHUT OFF VALVE AT EACH WATER SUPPLY CONNECTION TO EACH PLUMBING FIXTURE OR EQUIPMENT.
11. ALL WATER TAPS TO PLUMBING FIXTURES SHALL BE DOWNSTREAM OF WATER METER.
12. REFER TO ARCHITECTURAL AND MILLWORK DRAWINGS FOR DETAILS OF COUNTERTOPS, CASEWORK, AND OTHER FIXTURES SHOWING EXACT LOCATION OF OPENINGS FOR PLUMBING ITEMS BEING INSTALLED. COORDINATE THE COMPLETE INSTALLATION WITH THE GENERAL CONTRACTOR.
13. ALL PENETRATIONS IN FIRE RATED WALL ASSEMBLIES SHALL BE SEALED WITH UL LISTED FIRE STOPPING MATERIAL.
14. PLUMBING CONTRACTOR TO ARRANGE AND PAY FOR ALL REQUIRED FEES, PERMITS, AND MISCELLANEOUS COSTS ASSOCIATED WITH THE PLUMBING WORK PER LOCAL PLUMBING CODES.

SHEET NOTES:

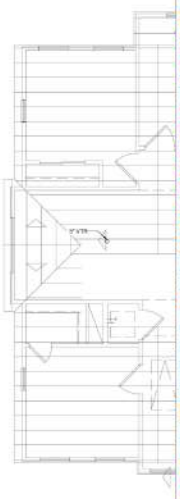
1. INSTALL PIPING UNDERGROUND TO / FROM ISLAND SINK
2. PIPING TO / FROM UNDERGROUND TO / FROM ABOVE CEILING
3. PROVIDE AND INSTALL GARBAGE DISPOSAL TO KITCHEN SINK TRAP PER GARBAGE DISPOSAL MANUFACTURER'S INSTRUCTIONS.
4. CONNECT DISHWASHER DRAIN TO KITCHEN SINK TRAP PER DISHWASHER MANUFACTURER'S INSTRUCTIONS.
5. CONNECTION OF STORM / SEWER / WATER WITH UTILITIES SHALL BE VERIFIED BY CONTRACTOR PRIOR TO ORDERING OR INSTALLATION OF ANY MATERIALS
6. INSTALL 1/2" NATURAL GAS CONNECTION TO APPLIANCE PER MANUFACTURER'S INSTRUCTIONS. PROVIDE LOCAL SHUT OFF VALVE, PROVIDE ADDITIONAL EQUIPMENT, SUCH AS LOCAL GAS REGULATOR, THERMOSTATIC GAS VALVE, ETC. PER MANUFACTURERS REQUIREMENTS.
7. AIR INTAKE AND FLUE VENT PIPES FROM GAS FURNACE TO EXTERIOR WALL. TERMINATE WITH CONCENTRIC SIDEWALL VENT KIT BY GAS FURNACE MANUFACTURER. PROVIDE ADEQUATE DISTANCE BETWEEN COMBUSTION AIR AND FLUE VENT PER MANUFACTURER'S STANDARDS AND IRC.
8. PROVIDE GAS METER FOR AS REQUIRED BY CITY. CONTRACTOR TO PAY ALL FEES ASSOCIATED WITH INSTALLATION OF METER. FIELD COORDINATE METER LOCATION WITH UTILITY PROVIDER AND ARCHITECT PRIOR TO ROUGH IN



1 LEVEL 1 PLUMBING FLOOR PLAN - UNIT E



2 LEVEL 2 PLUMBING FLOOR PLAN - UNIT E



3 ROOF PLUMBING F

Unit E	0.0 FT
Level-01	0.0 FT
Domestic Piping	0.0 FT
1" CW Pipe	43.8 FT
1/2" CW Pipe	26.6 FT
1/2" HW Pipe	17.7 FT
Gas Piping	0.0 FT
3" NG Pipe	9.2 FT
3/4" NG Pipe	9.4 FT
1" NG Pipe	11.7 FT
1-1/4" NG Pipe	45.3 FT
Sanitary & Vent Piping	0.0 FT
4" San Pipe	4.0 FT
3" San Pipe	43.8 FT
2" San Pipe	23.1 FT
1-1/2" Vent Pipe	3.1 FT
2" Vent Pipe	6.5 FT
Fixtures	0.0 FT
WC-1 Water Closet	1.0
L-1 Lavatory	1.0
IWGH-1 Gas Tankless Water Heater	1.0
Gas Vent	1.4 FT
WB-1 Water Box(For Ice Maker)	1.0
Kitchen Range	1.0
SK-1 Sink	1.0
Gas Meter W/ Regulator	1.0
Ball Valve	2.0
Union	2.0
Level-02	0.0 FT
Domestic Piping	0.0 FT
1/2" CW Pipe	79.5 FT
1/2" HW Pipe	61.9 FT
Sanitary & Vent Piping	0.0 FT
1-1/2" San Pipe	15.5 FT
3" San Pipe	46.2 FT
2" San Pipe	29.5 FT
2" Vent Pipe	86.3 FT
1-1/2" Vent Pipe	33.2 FT
Gas Piping	0.0 FT
1/2" NG Pipe	11.8 FT
3/4" NG Pipe	3.3 FT
WC-1 Water Closet	2.0
L-1 Lavatory	3.0
BT-1 Bath Tub	2.0
WB-2 Water Box(ForWashing Machine)	1.0
SH-1 Shower	1.0
Ball Valve	2.0
Union	2.0
3" VTR	1.0
Pex Manifold	1.0

PLUMBING FLOOR PLAN -SEWER & VENT

P201

GENERAL NOTES:

1. CONTRACTOR SHALL CONFORM TO ALL LOCAL, STATE, AND APPLICABLE CODES. WORK SHALL BE INSTALLED IN A WORKMAN LIKE FASHION.
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3. PROVIDE AND INSTALL GARBAGE DISPOSAL TO KITCHEN SINK TRAP PER GARBAGE DISPOSAL MANUFACTURER'S INSTRUCTIONS.
4. CONNECT DISHWASHER DRAIN TO KITCHEN SINK TRAP PER DISHWASHER MANUFACTURER'S INSTRUCTIONS.
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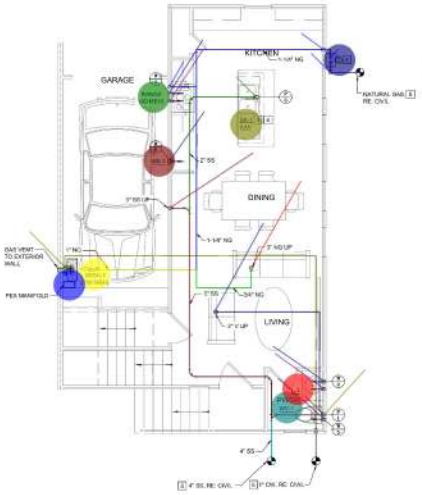

1 LEVEL 1 PLUMBING FLOOR PLAN - UNIT B,C,D

2 LEVEL 2 PLUMBING FLOOR PLAN - UNIT B,C,D

3 ROOF PL

Level-01	0.0 FT
Demostic Piping	0.0 FT
1" CW Pipe	45.0 FT
1/2" CW Pipe	27.9 FT
1/2" HW Pipe	13.7 FT
Gas Piping	0.0 FT
3" NG Pipe	9.1 FT
3/4" NG Pipe	8.4 FT
1" NG Pipe	11.2 FT
1-1/4" NG Pipe	49.1 FT
Sanitary & Vent Piping	0.0 FT
4" San Pipe	3.9 FT
3" San Pipe	44.3 FT
2" San Pipe	18.8 FT
1-1/2" Vent Pipe	5.5 FT
2" Vent Pipe	28.2 FT
WC-1 Water Closet	1.0
L-1 Lavatory	1.0
Gas Vent	1.4 FT
IWGH-1 Gas Tankless Water Heater	1.0
Pex Manifold	1.0
WB-1 Water Box(For Ice Maker)	1.0
Kitchen Range	1.0
SK-1 Sink	1.0
Gas Meter W/ Regulator	1.0
Level-02	0.0 FT
Domestic Piping	0.0 FT
1/2" CW Pipe	80.0 FT
1/2" HW Pipe	61.9 FT
Gas Piping	0.0 FT
Gas Piping	0.0 FT
1/2" NG Pipe	13.9 FT
3/4" NG Pipe	3.6 FT
Sanitary & Vent Piping	0.0 FT
1-1/2" San Pipe	2.5 FT
2" San Pipe	30.3 FT
3" San Pipe	3.0 FT
3" San Pipe	24.3 FT
2" Vent Pipe	60.9 FT
1-1/2" Vent Pipe	22.3 FT
Fixtures	0.0 FT
Fixtures	0.0 FT
WB-2 Water Box(ForWashing Machine)	1.0
WC-1 Water Closet	2.0
L-1 Lavatory	3.0
BT-1 Bath Tub	2.0
SH-1 Shower	1.0
3" VTR	1.0
Ball Valve	2.0
Union	2.0

PLUMBING FLOOR PLAN -SEWER & VENT

P202