City of Page - Encompass Shelter Facility

PROJECT LOCATION:
OSPREY DRIVE PAGE, ARIZONA
86040
DATE: 4-18-2022

DEFERRED SUBMITTALS

1) PRE-ENGINEERED TRUSSES
2) FIRE SPRINKLING SYSTEM
3) FIRE ALARM SYSTEM

CODE REVIEW AND DESIGN CRITERIA

<table>
<thead>
<tr>
<th>Code Item</th>
<th>Code Requirement</th>
<th>Actual Building Design</th>
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<tr>
<td>WATER CLOSETS</td>
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<td>DRINKING FOUNTAIN</td>
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<td>SHOWERS</td>
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<td>RESTROOM ACCESSIBILITY</td>
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CONSULTANTS

CIVIL
ROSENBERG ASSOCIATES
1391 S. 100 WEST
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STRUCTURAL
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86040
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230 NORTH 1680 EAST, BUILDING V
STAFF
ATT. PAUL. DUGGAN (435) 674-2300

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SHELF LIFE:
CONFIDENTIALITY:
VIRUS FREE:
DATED:
2018 EDITION OF THE IPC WAS USED.
2018 EDITION OF THE NFPA WAS USED.
EXIT ACCESS TRAVEL DISTANCE: (2018 IBC TABLE 1017.2)
B1-1/2 OCCUPANCY
= 200' MAX
THAT PORTION OF A MEANS OF
ESCAPES SYSTEM THAT LEADS FROM
ANY OCCUPIED PORTION OF A
BUILDING OR STRUCTURE TO AN EXIT
SUCH AS:
EXTERIOR EXIT DOOR AT GRADE
LEVEL
EXIT PASSAGeways
HORIZONTAL EXITS
EXIT AND EXIT ACCESS MINIMUM
SEPARATION DISTANCE: (2018 IBC
1007.1.1)
COMMON PATH OF EGRESS TRAVEL:
(2018 IBC 1006.2.1)
"THAT PORTION OF EXIT ACCESS
WHICH THE OCCUPANTS ARE
REQUIRED TO TRAVERSE BEFORE TWO
SEPARATE AND DISTINCT PATHS OF
ESCAPES TRAVEL TO TWO EXITS ARE
AVAILABLE." "COMMON PATHS OF
ESCAPES TRAVEL SHALL BE INCLUDED
WITHIN THE PERMITTED TRAVEL
DISTANCE."

<table>
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<th>TRAVEL DISTANCE</th>
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<td>C 67'</td>
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<td>D 33'</td>
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PERMIT SET
1. Refer to typical notes, details, & schedules.

2. See civil & arch plans for exterior concrete work and site grading.

3. See architectural drawings for slab slopes, depressions, dimensions, and elevations.

4. Where slab depression is indicated for tile or similar flooring, recess floor 2".

5. Place structural fill beneath footings & building slabs per typical detail "structural fill placement" and per earthwork notes.

6. Provide temporary shoring until main floor framing is complete for any wall over 6' tall that retains soil to resist induced lateral loads.

FOUNDATION NOTES:

- Snow drift area and load, on top of base snow load. Drift load is 0 psf at dotted line and increases linearly to maximum load.

- Structural plan legend:
  - Steel column
  - Joist or truss
  - Beam or girder
  - Concrete column
  - Non-bearing structural wall
  - Recessed foundation wall
  - Concrete footing
  - Masonry column
  - Steel strap
  - Beam in wall
  - Bearing wall
  - Purlin
  - Steel deck
  - OWS joist cross bridging
  - Structural connector, see connector schedule
  - Holdown, see holdown schedule.
  - "H" indicates location of holdown identified on level above.

- Sheathing:
  - Shearwall type and length, see shearwall schedule

- Foundation notes:
  - 4" concrete slab w/#4 bars @ 18" OC centered in slab. Place over 6" free draining gravel or crushed rock.

- Foundation plan:
  - Scale 1/8" = 1'-0"
### Anchor Bolt Schedule

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### Shearwall Schedule

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### Wood Beam Schedule

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### Wood Wall Schedule

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</table>
Keynote Legend

08 51 23.A7 Steel Attic Access W/Lock
08 95 00.B1 2" Continuous Soffit Vent
09 24 00.B0 3/8" Stucco

ALL TYPE 'X' CEILINGS ARE 1-1/2 HR FIRE RATED.
USE 25 GA. MIN. RESILIENT CHANNEL @ 16" O.C. BETWEEN GYP AND BOTTOM OF TRUSS.

BASIS OF DESIGN: UL P522

CEILING PLAN GENERAL NOTES
NEW MILLWORK SHALL BE PREMIUM GRADE, PLASTIC LAMINATE, INCLUDING EXPOSED SHELVES. OWNER TO PICK COLORS. SHELVES INSIDE OF CABINETS W/ DOORS CAN BE FINISHED CDX MELAMINE. ALL NEW TOPS AND BACKS TO BE SOLID SURFACE. ALL EXPOSED ENDS TO BE PLASTIC LAMINATE. COLOR SPECIFIED BY OWNER.
MILLWORK

NEW MILLWORK SHALL BE PREMIUM GRADE, PLASTIC LAMINATE INCLUDING EXPOSED SHELVES. OWNER TO PICK COLORS. SHELVES INSIDE OF CABINETS WITH DOORS CAN BE FINISHED WITH MELAMINE.

ALL NEW TOPS AND BACK TO BE SOLID SURFACE.

ALL EXPOSED ENDS TO BE PLASTIC LAMINATE. COLOR SPECIFIED BY OWNER.
TOP OF HOOD SKIRTING
UP TO CEILING  TYP.
RANGE HOOD
QUARTER END PANEL
30" DROP
RANGE
5 1/2" STEEL STUDS @ 16" OC TYP.
BEHIND STOVES AND HOOD.
SEE WALL TYPES
1/2" RESILIENT CHANNEL @ 16" OC. TYP.
5/8" CEMENT BACKER BOARD
20 GA. STAINLESS STEEL PLATE
FROM FLOOR TO THE BASE OF THE EXHAUST FAN HOOD. RETURN THE STAINLESS STEEL BACK TO WALL.
CAULK SEAM AT WALLS.

5' - 11"
8' - 11 3/8"

2" SQUARE TUBE POST
2" SQUARE TUBE BASE OUTRIGGER
DOUBLE 2X6
ICE & WATER SHIELD. CONTINUE OVER BLOCKING AS SHOWN.
1/8" METAL COVER. ATTACH VIA GASKETED SCREW TO LUMBER (BOTH SIDES)
ATTACH RAILING VIA GASKETED SCREW INTO LUMBER
2X6 BLOCKING
BUTT ASPHALT SHINGLE TO COVER (BOTH SIDES)
**STAINED CONCRETE W/ GRIT SEALER**

**4" CARPET BASE**

**TEXTURED PAINTED GYP. BD.**

**4" COVED TILE BASE**

**CARPET TILE**

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**Door Schedule**

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<td>2'6&quot;</td>
<td>7'0&quot;</td>
<td>1 3/4&quot;</td>
<td>20 20</td>
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</table>

**WALL TILE TYP. ELEVATION**

---

**Flooring**

- 1/4" = 1'-0"

**Notes**

- Painted and Textured Vinyl above tile Schedules.
- Light 12" x 12" Wall Tile Pattern as shown.
- Dark 12" x 12" Wall Tile Pattern as shown.
- See reflected ceiling plan.
- Painted, Textured Gypseous above.

---

**TILE PATTERN**

1 1/2" = 1'-0"
FURNITURE PLAN
6,066 SF
1. FIRE PROTECTION LINING SHOULD BE DESIGNED AND INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF THE NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) STANDARDS AND OTHER APPLICABLE CODES AND STANDARDS.

2. ALL FIRE PROTECTION LINES SHALL BE DESIGNED OR INSTALLED PRIOR TO CLOSE COORDINATION WITH ALL OTHER TRADES TO AVOID CONFLICTS.

3. WHERE FLOOR DRAINS OCCUR WITHIN THE LIMITS OF CONSTRUCTION, PREVENT CONSTRUCTION WORK IN THIS AREA AND NOTIFY THE OWNER.

4. PROVIDE AND INSTALL TURNING VANES IN ALL SQUARE LOW PRESSURE DUCTWORK AT ELBOWS OR TEES, TYPICAL.

5. THE CONTRACTOR SHALL BE FAMILIAR WITH ALL THE CONDITIONS BOTH EXISTING AND THOSE IN THE CONTRACT DOCUMENT.

6. MECHANICAL GENERAL NOTES

7. CONDENSATE DRAINS SHALL BE SUPPLIED FOR ALL COOLING EQUIPMENT. CONTRACTOR SHALL ENSURE PROPER INSTALLATION AND DRAINAGE AS REQUIRED BY FEDERAL, STATE, AND LOCAL CODES. CONDENSATE PIPING SHALL BE TYPE "L" COPPER UNLESS OTHERWISE NOTED IN THE PROJECT TO PREVENT CONFLICTS.

8. INSTALLATION INSTRUCTIONS, AT A LEVEL OF WORKMANSHIP CONSISTENT WITH THE REQUIREMENTS OF THE CONTRACT DOCUMENT.

9. THIS CONTRACTOR SHALL PROVIDE ALL ADDITIONAL SPRINKLER HEADS AS REQUIRED TO ENSURE ALL REQUIRED HEADS ARE INSTALLED.

10. AT LOCATIONS WHERE DIFFUSERS OR GRILLES ARE UNDER DUCTWORK, CONTRACTOR TO LOCATE THE GRADE AT A MAXIMUM 5'-0" AFF, A MINIMUM OF 2'-0" ABOVE THE DIFFUSER HANDLES ON WIDE SIDE OF ALL FIXTURES.

11. THE MECHANICAL CONTRACTOR SHALL PROVIDE CEILING MOUNTED ACCESS DOORS FOR ALL FIRE, MECHANICAL, ELECTRICAL, AND PLUMBING EQUIPMENT, UNLESS NOTED OTHERWISE IN THE PROJECT TO PREVENT CONFLICTS.

12. INSTALL ALL DOMESTIC WATER LINES BELOW DUCTWORK.

13. FOR DETAILS, EQUIPMENT CONNECTIONS, AND PIPE SIZES NOT SHOWN ON THE SEGMENTS, REFER TO THE LATEST ARCHITECTURAL LIFE SAFETY PLANS FOR ALL FIRE AND SMOKE PARTITION LOCATIONS.

14. INSTALL ALL EQUIPMENT IN ACCORDANCE WITH THE RESPECTIVE MANUFACTURER'S WRITTEN INSTALLATION INSTRUCTIONS, AT A LEVEL OF WORKMANSHIP CONSISTENT WITH THE REQUIREMENTS OF THE CONTRACT DOCUMENT.

15. LOCATE SPRINKLER PIPING SUCH THAT IT DOES NOT RUN ABOVE ELECTRICAL PANELS, SWITCHGEAR, MCC'S. PROTECT EQUIPMENT WITH A 42" DEEP ZONE IN FRONT OF PANELS, VFD'S AND MCC'S.

16. LOCATIONS OF PIPING, DUCTWORK AND EQUIPMENT AS INDICATED ON THE DRAWING, ARE TO SITE UTILITIES 5'-0" FROM BUILDING UNLESS NOTED OTHERWISE. REFER TO CIVIL PLANS.

17. LOCATE EQUIPMENT REQUIRING ACCESS 2'-0" MAXIMUM ABOVE CEILING.

18. LOCATE AT MINIMUM INTERVALS OF 50 FT FOR PIPING 4" NPS AND SMALLER AND 100 FT FOR ALL LARGE PIPING 4" NPS AND LARGER TO THE DIFFUSER AND SHALL BE CONNECTED WITH A HARD CONNECTION OR A FLEX DUCT TO THE DIFFUSER.

19. DETAILS REFERENCE ALL SHEETS.
1 INSTALL ROOF TOP HEAT PUMP UNIT ON A MANUFACTURED INSULATED CURB TO MATCH 4:1 SLOPE OF ROOF. SHORT SIDE TO BE 8 IN. TALL (FASTCURB OR EQUAL, REFER TO DETAIL SHEET).

2 ROOF TOP UNITS TO HAVE FACTORY THRU-THE-BASE CONNECTIONS. CONDENSATE DRAIN LINE TO BE INSTALLED IN THE BASE PAN DOWN INSIDE CURB. REFER TO PLUMBING PLANS FOR CONDENSATE DRAIN PIPING.

3 FALL ARREST/RESTRAINT ANCHORAGE DEVICE LOCATION. REFER TO THE ARCHITECTURAL PLANS FOR INSTALLATION.

4 COORDINATE WITH THE PLUMBING CONTRACTOR TO INSTALL THE CONDENSATE DRAIN LINE INTO THE CURB AND DOWN THROUGH THE ROOF. FLASH AND SEAL WATER TIGHT AS NEEDED.

1/8" = 1'-0"
SECTION 23.39(13) 23.39(13)

SPECIFICATIONS

TAB Commercial Kitchen Ventilation Hoods, Listed Commercial Kitchen

PART 1 - GENERAL

1.1 SUMMARY
A. The D50 panel is a Type I, low pressure hood for use over 0.97
   cooking surface temperatures. The low pressure hood refers to the
   pressure drop across the hood. The hood shall be designed to over
   come pressure loss due to friction in the ductwork.
B. The hood shall have the size, shape, and performance specified on
   drawing.

1.2 SUBMITTALS
A. The manufacturer assumes no liability for the use or results of
   use from this document. Specifications are to be reviewed by the
   engineer to control the project requirements and meet Federal,
   State, and Local codes.
B. As the manufacturer continues product development, it reserves
   the right to change design and specifications without notice.
C. All submitted drawings, calculations, and specifications shall be
   prepared in accordance with the American National Standards
   Institute, American Society for Testing and Materials, and
   American National Standards Institute, American Society for
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   Testing and Materials, American National Standards Institute,
SYSTEM DESIGN VERIFICATION (SDV)

IF ORDERED, GAS SERVICE WILL PERFORM A SYSTEM DESIGN VERIFICATION (SDV) ONCE ALL EQUIPMENT HAS HAD A COMPLETE START UP PER THE OPERATION AND INSTALLATION MANUAL. TYPICALLY, THE SDV WILL BE PERFORMED AFTER ALL INSPECTIONS ARE COMPLETE.

ANY FIELD RELATED DISCREPANCIES THAT ARE DISCOVERED DURING THE SDV WILL BE BROUGHT TO THE ATTENTION OF THE GENERAL CONTRACTOR AND CORRESPONDING TRADES ON SITE. THESE ISSUES WILL BE DOCUMENTED AND FORWARDED TO THE APPROPRIATE SALES OFFICE. IF GAS SERVICES HAS TO RESOLVE A DISCREPANCY THAT IS A FIELD ISSUE, THE GENERAL CONTRACTOR WILL BE NOTIFIED AND BILLED FOR THE WORK. SHOULD A RETURN TRIP BE REQUIRED DUE TO ANY FIELD RELATED DISCREPANCY THAT CANNOT BE RESOLVED DURING THE SDV, THERE WILL BE ADDITIONAL TRIP CHARGES.

DURING THE SDV, GAS SERVICE WILL ADDRESS ANY DISCREPANCY THAT IS THE FAULT OF THE MANUFACTURER. SHOULD A RETURN TRIP BE REQUIRED, THE GENERAL CONTRACTOR AND APPROPRIATE SALES OFFICE WILL BE NOTIFIED. THERE WILL BE NO ADDITIONAL CHARGES FOR MANUFACTURER DISCREPANCIES.
A. PROTECTION: TAKE ALL PRECAUTIONS NECESSARY TO PROTECT THE MATERIALS OF THIS SECTION.

B. EXAMINATION OF SITE: EXAMINE THE SITE AND INCLUDE IN BID PROPOSAL ALL CONDITIONS UNDER WHICH THE WORK IS TO BE PERFORMED.

C. RESPONSIBILITY FOR OBTAINING CLARIFICATION OF DISCREPANCIES BETWEEN MECHANICAL SPECIFICATIONS AND LIMITATIONS OF SPACE AVAILABLE FOR INSTALLATION OF WORK UNDER THIS CONTRACT.

D. OPERATING MANUALS AND MAINTENANCE MANUALS:

1. SUBMIT SIX (6) COPIES OF ALL MANUFACTURER’S OPERATING AND MAINTENANCE MANUALS SIMULTANEOUSLY WITH ALL OTHER SUBMITTED DOCUMENTS.

2. SUBMIT ONE (1) ADDITIONAL SET OF APPROVED INSTRUCTIONS AND ONE (1) ADDITIONAL SET OF APPROVED CONTROL DIAGRAMS.

3. SUBMIT ONE (1) ADDITIONAL SET OF AIR CONDITIONING UNIT AND ONE (1) ADDITIONAL SET OF AIR DISTRIBUTION UNIT.

4. LEAKS OR BREAKS IN PIPE OR EQUIPMENT PROVIDED UNDER THIS SECTION.

A. ROOF MOUNTED EXHAUST FANS OF THE CAPACITY SHOWN ON THE DRAWINGS SHALL BE INSTALLED SELECTING THE TYPE, LOCATION, AND SIZE TO ACCOMMODATE INSULATION.

B. THE FAN SHALL HAVE A HINGED BASE ALLOWING INSPECTION AND CLEANING OF THE DUCTWORK FROM THE TOP OF THE UNIT.

C. THE FAN SHALL BE LINED WITH KNAUF LINACOUSTIC OR EQUAL, 1 INCH, 1-1/2 LB, THERMAL RESISTIVE VALUE OF LEAST 2" AND SECURED WITH 16 GAUGE GALVANIZED WIRE ON 12" CENTERS. INSULATION SHALL BE A MINIMUM OF R-6.

D. DIFFUSER RADIATION SHIELD SHALL CONSIST OF AN APPROPRIATE CEILING FIRE DAMPER IN ACCORDANCE WITH THE AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI) 28.1-1983 FOR THE FIRE AREA TO WHICH IT IS CONNECTED.

E. DIFFUSER GRADE SHALL BE APPROPRIATE FOR THE VENTILATION APPLICATION.

F. ALL DIFFUSER GRADE SHALL BE DESIGNATED FOR THE Duct suchen and shall be inscribed on the object with the appropriate grade.
A. CABINET SHALL BE CONSTRUCTED OF GALVANIZED STEEL, BONDERIZED AND COATED WITH A.

B. ALL AIR HEATING EQUIPMENT SHALL INCLUDE AN ELECTRIC AUTOMATIC FAN FORCED AIR HEATER.

C. COMPRESSORS SHALL BE WELDED, FULLY HERMETIC WITH CRANKCASE HEATERS. COMPRESSORS LISTED AND CARRY A U.L. LABEL.

D. HEATING ELEMENT: THE HEATING ELEMENT SHALL BE OF THE NON-GLOWING DESIGN CONSISTING ALL MODELS. THERMAL CUTOUT SHALL BE BI-METALLIC, SNAP-ACTION TYPE DESIGNED TO SHUT

E. HEATING/COOLING SYSTEM SHALL BE PROTECTED WITH HIGH PRESSURE STATS, LOW PRESSURE CUTOUTS, ACCESSIBLE FOR ADJUSTMENT FROM ABOVE, CONCEALED CEILING REGULATORS WITH

F. Dampers, Barometric Dampers, and Controls to Make Operational. Economizer shall

G. Complete testing and balancing of the HVAC system as herein specified.

H. Prior to the use of the design and systems, testing systems shall operate quietly and without vibration or noise.

I. All major equipment shall be mounted on shock absorbing pads or vibration dampers. All joint and pipe connections shall be included with the equipment. All systems shall operate quietly and without vibration or noise.

J. BAILED ENAMEL FINISH. CABINET INTERIOR SHALL BE INSULATED WITH 1 INCH THICK NEOPRENE

K. Complete testing and balancing of the HVAC systems as herein specified. Systems shall operate quietly and without vibration or noise. Systems shall continue the operation of same during each working day of testing.

L. Before operating any mechanical systems, equipment bearings shall be lubricated

M. All joint and pipe connections shall be included with the equipment. All systems shall operate quietly and without vibration or noise.

N. ALL AIR HEATING EQUIPMENT SHALL INCLUDE AN ELECTRIC AUTOMATIC FAN FORCED AIR HEATER.
LEVEL 1 PLUMBING PLAN

**NOTES**

1. PROVIDE 2" CDW BELOW GRADE.
2. PROVIDE 4" FP W-BELOW GRADE.
3. PROVIDE 6" FP W-BELOW GRADE.
4. PROVIDE 1" LEVEL 1 PLUMBING PLAN.
5. PROVIDE 4" GW NFH-1.
6. PROVIDE 4" GW C127.
7. PROVIDE 4" GW 128.
8. PROVIDE 2" W 131.
9. PROVIDE 2" W 132.
10. PROVIDE 1/4" CD UP.

**SCHEDULE**

- Entry
- MENS RESTROOM
- WOMENS RESTROOM
- KITCHEN
- BREAKROOM
- STAFF/PUBLIC
- STORAGE
- LAUNDRY
- CONFERENCE ROOM
- COMMON AREA
- CORRIDOR
- MOVING EQUIPMENT PROVIDED BY OWNER
- COORDINATE WITH OWNER FOR ALL CONNECTIONS TO KITCHEN EQUIPMENT PER MANUFACTURER'S RECOMMENDATIONS.

**RECOMMENDATIONS**

- PROVIDE AND INSTALL A 4" FIRE LINE BELOW GRADE TO THE REMOTE FIRE DEPARTMENT CONNECTION, SEE CIVIL PLANS FOR CONTINUATION.
- PROVIDE A 1" AIR GAP.
- PROVIDE SHUT-OFF VALVES IN AN ACCESSIBLE LOCATION.
- PROVIDE SECURE ACCESS PANEL.
- PROVIDE A 4" FIRE LINE FOR THE REMOTE FIRE DEPARTMENT CONNECTION TO THE BOTTOM OUTLET OF THE UNIT, PER MANUFACTURER'S RECOMMENDATIONS.
- PROVIDE A 1" AIR GAP.
- PROVIDE A SECURE ACCESS PANEL.
- PROVIDE 1/4" CD UP.
- PROVIDE A 1" AIR GAP.
- PROVIDE A SECURE ACCESS PANEL.
- PROVIDE A 1/4" CD UP.
- PROVIDE A 1" AIR GAP.
- PROVIDE A SECURE ACCESS PANEL.
- PROVIDE A 1/4" CD UP.
- PROVIDE A 1" AIR GAP.
- PROVIDE A SECURE ACCESS PANEL.
- PROVIDE A 1/4" CD UP.
- PROVIDE A 1" AIR GAP.
- PROVIDE A SECURE ACCESS PANEL.
- PROVIDE A 1/4" CD UP.
- PROVIDE A 1" AIR GAP.
- PROVIDE A SECURE ACCESS PANEL.
- PROVIDE A 1/4" CD UP.
- PROVIDE A 1" AIR GAP.
- PROVIDE A SECURE ACCESS PANEL.
- PROVIDE A 1/4" CD UP.
- PROVIDE A 1" AIR GAP.
- PROVIDE A SECURE ACCESS PANEL.
- PROVIDE A 1/4" CD UP.
- PROVIDE A 1" AIR GAP.
- PROVIDE A SECURE ACCESS PANEL.
- PROVIDE A 1/4" CD UP.
- PROVIDE A 1" AIR GAP.
- PROVIDE A SECURE ACCESS PANEL.
- PROVIDE A 1/4" CD UP.
- PROVIDE A 1" AIR GAP.
- PROVIDE A SECURE ACCESS PANEL.
- PROVIDE A 1/4" CD UP.
- PROVIDE A 1" AIR GAP.
- PROVIDE A SECURE ACCESS PANEL.
1 HVAC EQUIPMENT, SEE MECHANICAL PLANS.
2 PLUMBING VENT THRU ROOF (VTR) TO BE LOCATED AND INSTALLED A MINIMUM OF 10'-0" FROM ALL FRESH AIR INTAKES.
3 3/4" CONDENSATE CONNECTION IN THE BASE OF THE RTU. DROP DOWN INTO THE CEILING AND INSTALL TO A DRAIN LOCATION. SEE SHEET P101 FOR CONTINUATION.
4 1" CONDENSATE CONNECTION ON THE SIDE OUTLET OF THE MAKE-UP AIR UNIT. INSTALL CONDENSATE LINE PER MANUFACTURER'S RECOMMENDATIONS, SEE MECHANICAL MAU DETAILS. CONDENSATE DRAIN LINE TO RETURN BACK THROUGH THE CURB AND INSTALL DOWN INTO THE CEILING SPACE. SEE SHEET P101 FOR CONTINUATION.
KEYNOTES:
1. WALL CLEANOUT, TYPICAL.
2. VENT THRU ROOF (VTR) TO BE LOCATED AND INSTALLED A MINIMUM OF 10'-0" FROM ALL FRESH AIR INTAKES, TYPICAL.
3. PROVIDE AND INSTALL A WATER HAMMER ARRESTOR IN THE BRANCH LINE TO FLUSH VALVE FIXTURE. LOCATE ABOVE THE CEILING OR IN THE WALL AND PROVIDE WITH A SECURE ACCESS PANEL.
4. INSTALL DHW LOOP THROUGH THE RESTROOM IN CLOSE PROXIMITY TO FIXTURES TO MINIMIZE PIPING BRANCH LENGTHS TO FIXTURES, TYPICAL.
5. PROVIDE AND INSTALL AN IN FLOOR LINT INTERCEPTOR FOR THE WASTE DISCHARGE FROM THE WASHING MACHINES. UNIT TO BE INSTALLED FLUSH TO FINISH FLOOR WITH A SECURE ACCESS COVER RATED FOR FOOT TRAFFIC. LOCATE IN AN ACCESSIBLE LOCATION.
6. PROVIDE AND INSTALL AN EMERGENCY FLOOR DRAIN, COORDINATE LOCATION WITH EQUIPMENT IN SPACE.
7. FOR SIZES, VALVES, ETC. NOT SHOWN, SEE WATER HEATER DETAIL.
8. DOMESTIC WATER PRV STATION, SEE DETAIL. COORDINATE MOUNTING HEIGHT WITH FIRE ALARM PANEL AND FIRE RISER IN THE SAME ROOM.
9. 4" FIRE LINE TO REMOTE FDC, SEE SHEET P101 FOR CONTINUATION.
10. CONDENSATE DRAIN LINE FROM ROOF MOUNTED EQUIPMENT. MAKE CONNECTION TO THE BOTTOM OUTLET OF THE UNIT, PER MANUFACTURER'S RECOMMENDATIONS.
11. 3/4" CONDENSATE DRAIN LINE TO DROP DOWN IN THE WALL AND SPILL INTO THE SERVICE SINK. ENSURE DRAIN TERMINATES WITH AN INDIRECT AIR GAP.
### Plumbing Fixture Schedule

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<tr>
<th>SYMBOL</th>
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### Electric Water Heater Schedule

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### Domestic Expansion Tank Schedule

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### Domestic Pump Schedule

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### Minimum Pipe Insulation Thickness (in.)

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1.05 SUBMITTALS

A. EXAMINATION OF THE SITE: EXERCISE CARE IN EXAMINING THE SITE AND COORDINATE ALL WORK.

B. PROTECTION: TAKE ALL PRECAUTIONS NECESSARY TO PROTECT THE MATERIALS OF THIS SECTION.

C. SERVICE CONNECTIONS: MAKE ALL NECESSARY ARRANGEMENTS WITH APPLICABLE UTILITY COMPANIES FOR CONNECTION TO EXISTING SERVICE LINES. PAY ALL FEES ASSOCIATED WITH WORK BEFORE, DURING AND AFTER INSTALLATION.

D. OPERATION AND MAINTENANCE INSTRUCTIONS: DELIVER TO ARCHITECT TWO COMPLETE SETS IN ALL GOVERNING AGENCIES.

E. RECORD DRAWINGS: KEEP AN ACCURATE DIMENSIONED RECORD OF AS-BUILT LOCATIONS AND MEMORANDUMS OF ALL MATERIAL, WORK AND TESTS PERFORMED AS APPROPRIATE.

F. CONCLUSIONS AND OBSERVATIONS: A MEMORANDUM OF ANY OBSERVATIONS MADE DURING THE INSTALLATION OF THIS SECTION WILL BE FURNISHED TO THE ARCHITECT AND TO THE COMPANY FOR CONNECTION TO EXISTING SERVICE LINES.

G. CAST IRON SOIL PIPE AND FITTINGS: ASTM A74, R. ALL SOIL, WASTE, AND VENT SHALL BE ABS OR PVC PLASTIC PIPE, RATED FOR DOMESTIC WASTE AND VENT, INSTALLED IN THE OPEN, NOT FURNACE PIPING.

H. PARTITION STOP VALVES: T&S B415, LOOSE KEY TYPE WITH WALL FLANGE.

I. PIPE COVERING, INSULATION AND WRAPPING: THE MATERIALS ARE REQUIRED TO BE IN CONFORMITY WITH THE MANUFACTURER'S SPECIFICATIONS AND WHERE NOT SPECIFIED UNDER DIVISION 1, THE APPROPRIATE ASTM, ASME, AGA, AND ASA STANDARDS.

J. CLEANOUTS, VALVES, PLUGGED TEES, CAPPED ENDS, AND OTHER WORK WHICH IS INSTALLED THROUGH FLOORS. WALL SLEEVES SHALL BE FLUSH WITH FINISHED SURFACE. SLEEVES SHALL BE FACTORY CEMENTED WITH THE EXISTING CONCRETE.

K. PIPE HANGERS & SUPPORTS: GRINNELL, FEE & MASON OR B-LINE.

L. PIPE SLEEVES:

B. ALL CLEANOUTS SHALL BE INSTALLED IN LOCATIONS EASILY ACCESSIBLE FOR RODDING.

C. ALL PIPING, FITTINGS, FLANGES, ETC. SHALL BE FREE FROM DEFECTS AND SHALL COMPLY WITH APPLICABLE ASTM, ASME, AGA, AND ASA STANDARDS.

D. PIPE IDENTIFICATION: USE ACORN 3500 THREAD COMPOUND.

E. ALL GAS FIRED EQUIPMENT SHALL INCLUDE A LABEL INDICATING THAT THE APPLIANCE HAS BEEN SIMULATED ON SNA OR STR MARKER.

F. ALL FLUSH VALVES AND FIXTURE STOPS SHALL BE CHECKED FOR PROPER OPERATION AND FINAL USE OF THE APPLIANCE.

G. ALL GAS FIRED EQUIPMENT SHALL INCLUDE A COMPLIANCE STATEMENT INDICATING THAT THE APPLIANCE HAS BEEN SIMULATED ON SNA OR STR MARKER.

H. ALL PIPE SLEEVES AND FLUSH VALVES shall be made of COOLING FOAM W/5% DCF.

I. ALL GAS FIRED EQUIPMENT shall include a compliance statement indicating that the appliance has been simulated on SNA or STR marker.

J. ALL WASTE, VALVES, PLUGGED TEES, CLEANOUTS, AND ALL EXISTING CONDITIONS SHALL BE REPORTED TO THE ARCHITECT IN WRITING.

K. ALL GAS FIRED EQUIPMENT shall include a compliance statement indicating that the appliance has been simulated on SNA or STR marker.

L. ALL GAS FIRED EQUIPMENT shall include a compliance statement indicating that the appliance has been simulated on SNA or STR marker.

M. ALL PIPE SLEEVES AND FLUSH VALVES shall be made of COOLING FOAM W/5% DCF.

N. ALL GAS FIRED EQUIPMENT shall include a compliance statement indicating that the appliance has been simulated on SNA or STR marker.

O. ALL GAS FIRED EQUIPMENT shall include a compliance statement indicating that the appliance has been simulated on SNA or STR marker.

P. ALL GAS FIRED EQUIPMENT shall include a compliance statement indicating that the appliance has been simulated on SNA or STR marker.

Q. ALL GAS FIRED EQUIPMENT shall include a compliance statement indicating that the appliance has been simulated on SNA or STR marker.
vbfa Project #: 22055
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O: (435)674-5800

Building V
230 N. 1680 E.

PART A. ACTIVATION FOR SPRINKLER SYSTEMS

1. ULTRASONIC SPRINKLER SYSTEMS: ULTRASONIC SPRINKLERS SHAL BE INSTALLED AT THEppeHOFMEN  TO SIGNAL THE APPORTUINITY OF A FIRE-BALANCED SPRINKLER SYSTEM.

2. DOORS AND WINDOWS NOT TO BE ATTACHED TO THE FOLLOWING SPRINKLER SYSTEMS:

3. SPRINKLER SYSTEMS NOT TO BE ATTACHED TO THE FOLLOWING SPRINKLER SYSTEMS:

4. SPRINKLER SYSTEMS NOT TO BE ATTACHED TO THE FOLLOWING SPRINKLER SYSTEMS:

5. SPRINKLER SYSTEMS NOT TO BE ATTACHED TO THE FOLLOWING SPRINKLER SYSTEMS:

PART B. ACTIVATION FOR SPRINKLER SYSTEMS

1. SPRINKLER SYSTEMS NOT TO BE ATTACHED TO THE FOLLOWING SPRINKLER SYSTEMS:

2. SPRINKLER SYSTEMS NOT TO BE ATTACHED TO THE FOLLOWING SPRINKLER SYSTEMS:

3. SPRINKLER SYSTEMS NOT TO BE ATTACHED TO THE FOLLOWING SPRINKLER SYSTEMS:

4. SPRINKLER SYSTEMS NOT TO BE ATTACHED TO THE FOLLOWING SPRINKLER SYSTEMS:

PART C. ACTIVATION FOR SPRINKLER SYSTEMS

1. SPRINKLER SYSTEMS NOT TO BE ATTACHED TO THE FOLLOWING SPRINKLER SYSTEMS:

2. SPRINKLER SYSTEMS NOT TO BE ATTACHED TO THE FOLLOWING SPRINKLER SYSTEMS:

3. SPRINKLER SYSTEMS NOT TO BE ATTACHED TO THE FOLLOWING SPRINKLER SYSTEMS:

4. SPRINKLER SYSTEMS NOT TO BE ATTACHED TO THE FOLLOWING SPRINKLER SYSTEMS:

PART D. ACTIVATION FOR SPRINKLER SYSTEMS

1. SPRINKLER SYSTEMS NOT TO BE ATTACHED TO THE FOLLOWING SPRINKLER SYSTEMS:

2. SPRINKLER SYSTEMS NOT TO BE ATTACHED TO THE FOLLOWING SPRINKLER SYSTEMS:

3. SPRINKLER SYSTEMS NOT TO BE ATTACHED TO THE FOLLOWING SPRINKLER SYSTEMS:

4. SPRINKLER SYSTEMS NOT TO BE ATTACHED TO THE FOLLOWING SPRINKLER SYSTEMS:
KEYNOTES

1. NEW NEMA 3R PAD MOUNTED 208Y/120V SERVICE TRANSFORMER. COORDINATE INSTALLATION REQUIREMENTS WITH PAGE ELECTRIC.

2. NEW UNDERGROUND SERVICE FEEDERS. COORDINATE EXACT ROUTING AND QUANTITY/SIZE OF CONDUIT AND CONDUCTORS WITH PAGE ELECTRIC AND APPROVED CIVIL SITE UTILITY PLAN.

3. NEW 600A 208Y/120 CT CABINET WITH METER PROVISION PER PAGE ELECTRIC UTILITY REQUIREMENTS.

4. EXISTING TELEPHONE PEDESTAL TO REMAIN.

5. NEW UNDERGROUND CONDUIT FOR TELECOM UTILITY. REFER TO APPROVED CIVIL SITE UTILITY PLAN AND TELECOM COMPANY FOR CONDUIT SIZE AND INSTALLATION REQUIREMENTS.

SITE GENERAL NOTES

A. ALL LIGHTING AND POWER CONDUCTORS SHALL BE INSTALLED BETWEEN 24" (MINIMUM) AND 36" (MAXIMUM) BELOW FINISHED GRADE.

B. ALL COMMUNICATIONS CONDUIT AND CABLES SHALL BE INSTALLED 36" (MINIMUM) BELOW FINISHED GRADE.

C. ALL CONDUCTORS FOR EXTERIOR LIGHTING AND POWER CIRCUITS SHALL BE #10 AWG MINIMUM.

1" = 20'-0"
ARROW - 3

LEVEL 1 LIGHTING PLAN

PROJECT NUMBER

4/12/2022 11:13:59 AM

4/12/2022 11:13:59 AM

GENERAL LIGHTING NOTES

A. CONSTRUCT EMERGENCY EXIT/ESCAPE LIGHT FIXTURES TO X-5 TRANSFORMER CONDUCTOR OF NEAREST 120V LIGHTING OUTLET.

B. PROVIDE ON TRANSCODER FOR AN AMOUNT OF LIGHTING OFFSET TO EMERGENCY EXIT/ELECTRIC PROJECT NORMAL, OR SELF-CONTAINED OR THROUGH RELAY METHOD.

C. PROVIDE OCCUPANCY/VACANCY SENSORS IDENTIFY SPACES IN THE LIGHTS IN THE SPACE ARE TO BE CONTROLLED BY OCCUPANCY Sensors, AND DO NOT NECESSARILY INDICATE EXACT QUANTITY AND PLACEMENT. INSTALLATION WILL BE A FUNCTION OF THE LIGHTING PLAN AND QUANTITIES FOR A MINIMUM ON-SLADE OF THE SPACE. PROVIDE REALED POWER PANELS, ETC. AS REQUIRED PER CODE. INSTALLATION WILL BE DETECTION FROM ANY SINGLE SENSOR. INSTALLATION WILL BE DETECTION FROM ANY SINGLE SENSOR. INSTALLATION WILL BE DETECTION FROM ANY SINGLE SENSOR.

D. RUN ALL LIGHTING IN SPACES NOT CONTROLLED BY OCCUPANCY Sensors OR TIMES THROUGH THE LIGHTING PANEL.

E. TYPE INCANDESCENT IS ACCEPTABLE FOR USE ON THIS PROJECT.

F. PROVIDE ALLING OF CODE AND PANEL CONSULTANTS IN WATERS OR ABOVE CEILINGS.
LEVEL 1 POWER PLAN

GENERAL POWER NOTES

A. All areas are to be kept clean and clear of debris at all times.
B. Route all conduit as neatly and visibly as possible. All conduit run through a wall or other barrier shall be concealed in the wall or barrier.
C. Provide sufficient access to ALL equipment for future maintenance. Install conduit directly adjacent to the equipment to ensure good access. Provide conduit access to facility fire extinguishing devices.
D. Recessed lighting fixtures installed in fire rated ceiling assemblies need to be protected by firestop enclosures. Provide a minimum of 1/8" of firestop for each fixture to the enclosure.
E. Coordination and provided conduit to all equipment. Ensure all conduit is labeled with conduit number.
F. Provide conduit where required to be water tight. Coordinate conduit with other trades.
G. Refer to Division 26 for penetrations requiring protected openings.
H. Refer to Division 26 for penetrations requiring firestopping.

GENERAL KITCHEN NOTES

A. This drawing is intended to show various locations for electrical, mechanical, and food service equipment. The general intent is to indicate electrical, mechanical, and food service requirements and coordinate all electrical, mechanical, and food service drawings for additional requirements and coordinate all electrical, mechanical, and food service equipment.
B. Provide all required materials and labor to install all existing equipment in the kitchen area. Coordinate all work with current codes including Division 360 notes.
C. Verify all materials required for each connection, such as junction boxes, switches, covers, outlets, and other electrical equipment.
D. Provide all required materials and labor to install all existing equipment in the kitchen area. Coordinate all work with current codes including Division 360 notes.
E. Provide all required materials and labor to install all existing equipment in the kitchen area. Coordinate all work with current codes including Division 360 notes.
F. Provide all required materials and labor to install all existing equipment in the kitchen area. Coordinate all work with current codes including Division 360 notes.
G. Provide all required materials and labor to install all existing equipment in the kitchen area. Coordinate all work with current codes including Division 360 notes.
H. Provide all required materials and labor to install all existing equipment in the kitchen area. Coordinate all work with current codes including Division 360 notes.
I. Provide all required materials and labor to install all existing equipment in the kitchen area. Coordinate all work with current codes including Division 360 notes.
J. Provide all required materials and labor to install all existing equipment in the kitchen area. Coordinate all work with current codes including Division 360 notes.
K. Provide all required materials and labor to install all existing equipment in the kitchen area. Coordinate all work with current codes including Division 360 notes.
L. Provide all required materials and labor to install all existing equipment in the kitchen area. Coordinate all work with current codes including Division 360 notes.
M. Provide all required materials and labor to install all existing equipment in the kitchen area. Coordinate all work with current codes including Division 360 notes.
N. Provide all required materials and labor to install all existing equipment in the kitchen area. Coordinate all work with current codes including Division 360 notes.
O. Provide all required materials and labor to install all existing equipment in the kitchen area. Coordinate all work with current codes including Division 360 notes.
P. Provide all required materials and labor to install all existing equipment in the kitchen area. Coordinate all work with current codes including Division 360 notes.
Q. Provide all required materials and labor to install all existing equipment in the kitchen area. Coordinate all work with current codes including Division 360 notes.
R. Provide all required materials and labor to install all existing equipment in the kitchen area. Coordinate all work with current codes including Division 360 notes.
S. Provide all required materials and labor to install all existing equipment in the kitchen area. Coordinate all work with current codes including Division 360 notes.
T. Provide all required materials and labor to install all existing equipment in the kitchen area. Coordinate all work with current codes including Division 360 notes.
U. Provide all required materials and labor to install all existing equipment in the kitchen area. Coordinate all work with current codes including Division 360 notes.
V. Provide all required materials and labor to install all existing equipment in the kitchen area. Coordinate all work with current codes including Division 360 notes.
W. Provide all required materials and labor to install all existing equipment in the kitchen area. Coordinate all work with current codes including Division 360 notes.
X. Provide all required materials and labor to install all existing equipment in the kitchen area. Coordinate all work with current codes including Division 360 notes.
Y. Provide all required materials and labor to install all existing equipment in the kitchen area. Coordinate all work with current codes including Division 360 notes.
Z. Provide all required materials and labor to install all existing equipment in the kitchen area. Coordinate all work with current codes including Division 360 notes.

COORDINATE ALL WORK WITH CURRENT CODES, INCLUDING
DIVISION 360 NOTES.
A. All areas are to be kept clean and clear of debris at all times.

B. Route all conduit in neat and orderly fashion. All conduit in finished spaces shall be concealed above ceilings or in walls unless otherwise indicated on the plans.

C. Provide clean typed punch list labels on the coversheets of all submittals indicating the panel and circuit numbers as tied to.

D. Provide clear, typed punch list labels on the coversheets of all submittals indicating the panel and circuit numbers as tied to.

GENERAL POWER NOTES

1. INSTALL DUCT SMOKE DETECTOR WITHIN RETURN AIR DUCT OF ROOF-TOP UNIT PER MANUFACTURER'S RECOMMENDATIONS. CONNECT TO FIRE ALARM RELAY AS SHOWN.

2. TO FAN CONTROLLER FOR FAN SHUTDOWN.

3. UNIT PROVIDED WITH FACTORY INSTALLED DISCONNECT AND POWERED CONVENIENCE OUTLET WITH POWER PROVIDED BY UNIT.

4. REFER TO SHEET M507 FOR CONTROL CONNECTIONS THROUGH HOOD CONTROL PANEL.

KEYNOTES

1. Duct smoke detector is factory installed and will be connected to fire alarm system. Connect to fire alarm relay as shown.

2. Unit provided with factory installed disconnect and powered convenience outlet with power provided by unit.

3. Refer to smart panel for control connections through hood control panel.
7. PROVIDE MONITOR MODULE AT DUCT SMOKE DETECTOR.
6. PROVIDE DUCT SMOKE DETECTOR WITHIN 5' OF THE INTEGRAL TO THE DAMPER.
5. COORDINATE NAC PANEL LOCATION(S) WITH THE ENGINEER.
4. IN EACH SPACE WITH A FIRE ALARM CONTROL PANEL, REQUIRE A FIRE ALARM JUNCTION BOX, MARKED RED, WITH A NOTE ON PANEL DIRECTORY: “FIRE ALARM SYSTEM - DO NOT TURN OFF”.
3. CIRCUIT BREAKER(S) FEEDING FIRE ALARM PANEL.
2. PAINT ALL ACCESSIBLE FIRE ALARM JUNCTION BOXES RED.
1. DETAIL IS FOR REFERENCE ONLY. REFER TO MANUFACTURER'S SHOP DRAWINGS FOR WIRING REQUIREMENTS. ALL WIRING SHALL BE INSTALLED IN MINIMUM 3/4" CONDUIT, UNLESS NOTED OTHERWISE.

NOTES:
- PROVIDE A SMOKE EQUIPMENT, NOT OF SAME MANUFACTURER AS FIRE ALARM SYSTEM.
- ANNUCIATOR, OR NAC PANEL, PROVIDE A SMOKE DETECTOR.
- PROVIDE A SMOKE DETECTOR.
- DETECTOR.
- DETECTOR.
- ENGINEER.
SECTION VIEW

2 OR 3 HOUR, FIRE RATED, CONCRETE FLOOR SLAB

METAL PIPE OR CONDUIT

FILL GAP COMPLETELY AROUND PIPE WITH CAULK

CP-25 OR PUTTY 303 FLUSH TO SURFACE OF SLAB (SEE NOTE 3)

SUPPORTING MATERIAL

AS FIBERGLASS INSULATION
BACKER ROD OR SAFING.
ENOUGH TO SUPPORT WEIGHT OF CP-25 OR PUTTY 303.

SECTION VIEW

2 OR 3 HOUR, FIRE RATED, CONCRETE/BLOCK WALL

METAL PIPE OR CONDUIT

COVER CAULK SURFACE WITH MASKING TAPE OR BACKER ROD UNTIL CURED (24-72 HOURS) TO PREVENT SAGGING OF CAULK. SEE NOTE 5.

1" DEPTH CAULK CP-25 OR PUTTY 303 WITHIN WALL

NOTES:

1. FOR CONCRETE BLOCK WALLS, CENTER CAULK CP-25 OR PUTTY 303 WITHIN WALL WITH DAMPING ON BOTH SIDES.

2. RECOMMENDATIONS BASED ON PRODUCT PERFORMENCE PER ASTM E-814 (UL 1479) FIRE TEST AND UL CLASSIFICATION FIRE STOP SYSTEMS.

3. WET INSTALLED DEPTH OF CAULK CP-25 OR PUTTY 303 DEPENDED ON THE SIZE AND TYPE OF PIPE PENETRATING FIRE RATING. WET DEPTH PIPE SIZE AND FIRE RATING 1/2" MAX 8" 2 HOURS.

2" MAX 6" 3 HOURS.

4. UP TO 40% SHRINKAGE OF CP-25 OR PUTTY 303 IS ACCEPTABLE AFTER WET DEPTH INSTALLATION.

5. OPTIONS TO MASKING TAPE TO PREVENT SAGGING:

a. INSTALL ADDITIONAL DAMMING MATERIAL OVER PRODUCT TO HOLD WITHIN OPENING.
b. REMOVE PRODUCT FROM CONTAINER AND ALLOW TO AIR CURE IN SMALL BATCHES FOR 12 HOURS AND HAND FOR INTO OPENING.

6. WHEN ANNULAR SPACE EXCEEDS 3/4" A 28 AWG METAL COVERPLATE MUST BE MECHANICLLY SECURED ATOP THE 3M FIRE BARRIER APPLICATION OR TIGHTLY PACK A NON-COMBUSTIBLE MATERIAL ATOP INSTALLED CAULK OR PUTTY.
### Notes:

- Non-Continuous 23988 VA 100.00% 23988 VA
- Continuous 782 VA 125.00% 978 VA

#### CKT Circuit Description Code
- 53 SPARE 20 A 1 0 0 1 20 A SPARE 54
- 43 SPARE 20 A 1 0 0 1 20 A SPARE 44
- 37 SPARE 20 A 1 0 0 1 20 A SPARE 38

#### Notes:

- 5 = GFCI Breaker
- 6 = GFEP Breaker
- 1 = See Drawings For Conduit & Conductor Sizes
- 2 = Shunt-Trip Breaker

### Electrical Schedules

#### EQUIPMENT SCHEDULE

<table>
<thead>
<tr>
<th>TYPE</th>
<th>DESCRIPTION</th>
<th>CTE</th>
<th>LINE</th>
<th>FLA</th>
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### Notes:

- Supply From:
- Enclosure:
- Mounting:
- Location:

- Volts:
- Mains Rating:
- Mains Type:

### ABBREVIATIONS:

<table>
<thead>
<tr>
<th>ABBREVIATION</th>
<th>DESCRIPTION</th>
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<tbody>
<tr>
<td>HP</td>
<td>HORSEPOWER</td>
</tr>
<tr>
<td>FLA</td>
<td>FULL LOAD AMPERES</td>
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<tr>
<td>MOCP</td>
<td>MAXIMUM OCPD</td>
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### ABBREVIATIONS:

- RPM = REVOLUTIONS PER MINUTE
- kW = KILOWATTS
- kVA = KILOWATT AMPLITUDE
- MVA = MEGAVATT AMPLITUDE
- V = VOLTS
- F = FACTORS
- PF = POWER FACTOR
- C = COEFFICIENTS
- Q = QUANTITIES
- F(S) = FREQUENCY (SYMMETRIC)
- I(S) = CURRENT (SYMMETRIC)
- W(S) = WATTS (SYMMETRIC)
- S = SOURCES
- K = KILO
- M = MEGA
- G = GIGA
- T = TERA

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230 N. 1680 E.
**RELAY PANEL CONTROL SCHEDULE**

<table>
<thead>
<tr>
<th>NO.</th>
<th>Description</th>
<th>Panel-Circuit Load (VA)</th>
<th>Low Voltage Switch A B C D E F G H I J</th>
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<tr>
<td>19</td>
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<td>17</td>
<td>BLDG LTG A-3</td>
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<td>SITE LTG A-12</td>
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<td>15</td>
<td>ENTRY 100 LTG A-4</td>
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<td>DINING/KITCHEN LTG A-14</td>
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<td>CORRIDOR 121 LTG A-9</td>
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**GENERAL NOTES**

1. PROVIDE FACES AND CHEVRONS AS SHOWN ON THE DRAWINGS.
2. COLOR TEMPERATURE FOR ALL LAMPING SHALL BE 3500K FOR INTERIOR LIGHTING AND 4000K FOR EXTERIOR LIGHTING UNLESS NOTED OTHERWISE IN THIS SCHEDULE.
3. PROVIDE ALL FIXTURE SUPPORT AND SEISMIC BRACING TO SECURE FIXTURE TO STRUCTURE, WALLS AND CEILING SYSTEMS. REFER TO MOUNTING DETAILS FOR ADDITIONAL REQUIREMENTS.
4. PRIOR APPROVAL SHALL BE REQUIRED FOR ALL MANUFACTURERS WHO ARE NOT LISTED ON THIS SCHEDULE. THE PRIOR APPROVALS SHALL BE SUBMITTED TO THE ELECTRICAL ENGINEER (7) WORKING DAYS PRIOR TO BID.
5. SUBMITTALS FOR PRIOR APPROVAL SHALL BE EQUIVALENT TO THE SPECIFIED FIXTURES AND REVIEWED AND SIGNED BY THE PRINCIPLE OF THE ORGANIZATION THAT IS SUBMITTING FOR APPROVAL.
6. FIXTURES THAT HAVE BEEN REVIEWED AND APPROVED AS EQUIVALENT TO THE SPECIFIED FIXTURES SHALL BE LISTED IN AND ADDENDUM PRIOR TO BID. LIGHT FIXTURES WITHOUT PRIOR APPROVAL ARE REJECTED.
7. PROVIDE PHOTOCELL ON/TIMED OFF OR APPROVED EQUIVALENT.
8. PROVIDE UNLESS NOTED OTHERWISE IN THE SCHEDULE.
9. PROVIDE THREE PHASE 3-WIRE 208V AC.
10. PROVIDE THREE PHASE 3-WIRE 208V AC.
11. PROVIDE THREE PHASE 3-WIRE 208V AC.
PART I - GENERAL
A. DESCRIPTION
1. All labor, materials, equipment and transportation as required to properly install all complete and comparable electrical system.

B. RULES AND REQUIREMENTS
1. All work and materials shall be installed as shown and herein specified.
2. The latest editions of the following specifications, standards, and manuals as approved by the owner's representative shall be used:
   a. NFPA 70, National Electrical Code®
   b. ANSI Z21.1, Automatic Fire Detector and Water Sprinkler Accessory Standards
   c. UL 322, Low Voltage Circuit Breakers
   d. UL 924, Power Switches
   e. UL 508, Industrial Control Panels
   f. IEC 60309, Electrical Cords and Receptacles
   g. IEC 60364-7-71, Low Voltage Installations (Electrical Equipment and Installations in Buildings Except for Dwellings)
   h. IEC 60502-1, National Electrical Wiring Code
   i. ASTM C 175, Portland Cement
   j. ASTM C 494, Portland Cements
   k. ASTM C 511, Portland Pozzolana Cements
   l. ASTM C 595, Portland Blast Furnace Slag Cements
   m. ASTM C 618, Coal Fly Ash Cements
   n. ASTM C 624, Class F Fly Ash Cements
   o. ASTM C 666, Class G Fly Ash Cements
   p. ASTM C 687, Blast Furnace Slag Cements
   q. ASTM C 1157, Light Weight Aggregate Cements
   r. ASTM C 150, Hydraulic Cement
   s. ASTM C 165, Ordinary Portland Cement
   t. ASTM C 166, Portland Slag Cement
   u. ASTM C 175, Portland Blast Furnace Slag Cements
   v. ASTM C 178, Portland Pozzolana Cements
   w. ASTM C 185, Portland Blast Furnace Slag Cements
   x. ASTM C 195, Portland Slag Cements
   y. ASTM C 208, Portland Blast Furnace Slag Cements
   z. ASTM C 220, Portland Pozzolana Cements

C. SUBMITTALS
1. All equipment and materials shall be submitted to the owner's representative for approval prior to installation.
2. All materials and equipment to be used should be pre-approved prior to submittal.
3. All materials and equipment to be used under this installation shall be under the owner's representative.
4. All materials and equipment to be used shall be under the owner's representative.
5. All materials and equipment to be used shall be under the owner's representative.

D. WORKSHOPS AND MATERIALS
1. The latest editions of the following standards and specifications shall be used as needed on this job.
2. The latest editions of the following standards and specifications shall be used as needed on this job.
3. The latest editions of the following standards and specifications shall be used as needed on this job.
4. The latest editions of the following standards and specifications shall be used as needed on this job.

E. WIRING CONNECTORS
1. Connectors shall be UL Listed.
2. Connectors shall be UL Listed.
3. Connectors shall be UL Listed.
4. Connectors shall be UL Listed.
5. Connectors shall be UL Listed.

F. ELECTRICAL SPECIFICATIONS
1. ELECTRICAL METALLIC TUBING (EMT) SHALL BE USED IN INTERIOR DRY LOCATIONS.
2. ELECTRICAL METALLIC TUBING (EMT) SHALL BE USED IN INTERIOR DRY LOCATIONS.
3. ELECTRICAL METALLIC TUBING (EMT) SHALL BE USED IN INTERIOR DRY LOCATIONS.
4. ELECTRICAL METALLIC TUBING (EMT) SHALL BE USED IN INTERIOR DRY LOCATIONS.
5. ELECTRICAL METALLIC TUBING (EMT) SHALL BE USED IN INTERIOR DRY LOCATIONS.

G. NAMEPLATES
1. Provide one nameplate on each component of motor control equipment as specified.
2. Provide one nameplate on each component of motor control equipment as specified.
3. Provide one nameplate on each component of motor control equipment as specified.
4. Provide one nameplate on each component of motor control equipment as specified.
5. Provide one nameplate on each component of motor control equipment as specified.

H. SAFETY SPECIFICATIONS
1. The electrical contractor shall furnish and install safety switches as indicated.
2. The electrical contractor shall furnish and install safety switches as indicated.
3. The electrical contractor shall furnish and install safety switches as indicated.
4. The electrical contractor shall furnish and install safety switches as indicated.
5. The electrical contractor shall furnish and install safety switches as indicated.

I. BUSINESSES
1. General
2. General
3. General
4. General
5. General

J. FRACTIONAL HORSEPOWER MANUAL STARTERS
1. Provide fractional horsepower manual starters in the following features:
2. Provide fractional horsepower manual starters in the following features:
3. Provide fractional horsepower manual starters in the following features:
4. Provide fractional horsepower manual starters in the following features:
5. Provide fractional horsepower manual starters in the following features:

K. FUSES
1. FUSES SHALL BE CLASS 4A SHUNT REJECTION TYPE.
2. FUSES SHALL BE CLASS 4A SHUNT REJECTION TYPE.
3. FUSES SHALL BE CLASS 4A SHUNT REJECTION TYPE.
4. FUSES SHALL BE CLASS 4A SHUNT REJECTION TYPE.
5. FUSES SHALL BE CLASS 4A SHUNT REJECTION TYPE.

L. RIM OF JUNCTION BOXES
1. Junction boxes shall be located as shown.
2. Junction boxes shall be located as shown.
3. Junction boxes shall be located as shown.
4. Junction boxes shall be located as shown.
5. Junction boxes shall be located as shown.

M. OUTLET AND JUNCTION BOXES
1. Junction boxes shall be furnished and installed.
2. Junction boxes shall be furnished and installed.
3. Junction boxes shall be furnished and installed.
4. Junction boxes shall be furnished and installed.
5. Junction boxes shall be furnished and installed.

N. RACIWEAYS
1. All fittings shall be steel.
2. All fittings shall be steel.
3. All fittings shall be steel.
4. All fittings shall be steel.
5. All fittings shall be steel.

O. GROUNDING
1. Install a code sized grounding conductor in each raceway as shown. Do not use the existing grounding conductor. See paragraph 8 for grounding.
2. Install a code sized grounding conductor in each raceway as shown. Do not use the existing grounding conductor. See paragraph 8 for grounding.
3. Install a code sized grounding conductor in each raceway as shown. Do not use the existing grounding conductor. See paragraph 8 for grounding.
4. Install a code sized grounding conductor in each raceway as shown. Do not use the existing grounding conductor. See paragraph 8 for grounding.
5. Install a code sized grounding conductor in each raceway as shown. Do not use the existing grounding conductor. See paragraph 8 for grounding.

P. CONDUCTORS
1. All conductors shall be installed in concert with UL 746B, Article 700, and UL 738, Article 400, as stated in the NFPA 70, National Electrical Code.
2. All conductors shall be installed in concert with UL 746B, Article 700, and UL 738, Article 400, as stated in the NFPA 70, National Electrical Code.
3. All conductors shall be installed in concert with UL 746B, Article 700, and UL 738, Article 400, as stated in the NFPA 70, National Electrical Code.
4. All conductors shall be installed in concert with UL 746B, Article 700, and UL 738, Article 400, as stated in the NFPA 70, National Electrical Code.
5. All conductors shall be installed in concert with UL 746B, Article 700, and UL 738, Article 400, as stated in the NFPA 70, National Electrical Code.

Q. SVC OUTER CONDUIT BOXES
1. Provide all conduit boxes specified in the drawings.
2. Provide all conduit boxes specified in the drawings.
3. Provide all conduit boxes specified in the drawings.
4. Provide all conduit boxes specified in the drawings.
5. Provide all conduit boxes specified in the drawings.

R. FRACTIONAL HORSEPOWER MANUAL STARTERS
1. Provide fractional horsepower manual starters in the following features:
2. Provide fractional horsepower manual starters in the following features:
3. Provide fractional horsepower manual starters in the following features:
4. Provide fractional horsepower manual starters in the following features:
5. Provide fractional horsepower manual starters in the following features:

S. FUSES
1. FUSES SHALL BE CLASS 4A SHUNT REJECTION TYPE.
2. FUSES SHALL BE CLASS 4A SHUNT REJECTION TYPE.
3. FUSES SHALL BE CLASS 4A SHUNT REJECTION TYPE.
4. FUSES SHALL BE CLASS 4A SHUNT REJECTION TYPE.
5. FUSES SHALL BE CLASS 4A SHUNT REJECTION TYPE.

T. IMPACT OF JUNCTION BOXES
1. Impact of junction boxes shall be as shown.
2. Impact of junction boxes shall be as shown.
3. Impact of junction boxes shall be as shown.
4. Impact of junction boxes shall be as shown.
5. Impact of junction boxes shall be as shown.

U. GROUNDING
1. Install grounding conductors as shown.
2. Install grounding conductors as shown.
3. Install grounding conductors as shown.
4. Install grounding conductors as shown.
5. Install grounding conductors as shown.