NEW CHILLER ON NEW STEEL DUNNAGE

EXIST DUCTWORK TO REMAIN

EXISTING SAFETY RAILING W/ GATE ON EXG ROOF HATCH

NEW PIPE GUARD RAIL - ANCHOR AT EACH END WITH ESCUTCHEON FITTING INTO BACK OF EXIST CMU WALL

NEW STEEL DUNNAGE CONNECTED TO EXISTING STEEL BEAM

EXISTING BRICK SILL LINE OF EXISTING ROOF 3'-6" MIN

VIF 1' - 11 3/8" 2' - 1"

NEW STEEL BRACE (ANGLED)

EXIST STEEL DUNNAGE TO BE DEMOLISHED DOWN TO EXIST ROOF BEAMS

REMOVE PORTION OF ROOF AT EACH OF (4) DUNNAGE POSTS TO EXPOSE BASE PLATES

PROTECT ROOF PENETRATIONS DURING CONSTRUCTION UNTIL ROOF PATCHING IS COMPLETE

NOTE: ALL DIMENSIONS AND CONDITIONS SHALL BE VERIFIED BY THE CONTRACTOR AT THE SITE BEFORE PROCEEDING WITH THE WORK.

PHILADELPHIA ZOO
AMERICA'S FIRST ZOO

CITY OF PHILADELPHIA
DEPARTMENT OF PUBLIC PROPERTY
CITY OF PHILADELPHIA

ANIMAL HOSPITAL
MECHANICAL UPGRADES

ROOF PLAN AND DETAILS

71-19-4605-01

SCALE 1" = 10'-0"

1/4" = 1'-0" 2 GUARD RAIL ELEVATION

3" = 1'-0" 3 DUNNAGE POST PENETRATION DETAIL

1" = 10'-0" 4 ROOF DEMOLITION PLAN

1/4" = 1'-0" 5 ROOF PLAN

1/4" = 1'-0" 6 GUARD RAIL ELEVATION

1/4" = 1'-0" 7 DUNNAGE POST PENETRATION DETAIL

NEW PIPE GUARD RAIL AND EXISTING ROOF EDGE WITH ANSI 1021 GUARD RAIL SYSTEM SHOWN BACK OF EXIST CMU WALL

NEW PIPE GUARD RAIL AND EXISTING ROOF EDGE WITH ANSI 1021 GUARD RAIL SYSTEM SHOWN IN BACK OF EXIST CMU WALL

NOTE: NOT FOR CONSTRUCTION

6/16/2019 7:50:50 PM

SEALS
NOTE:
ALL DIMENSIONS AND CONDITIONS SHALL BE
VERIFIED BY THE CONTRACTOR AT THE SITE
BEFORE PROCEEDING WITH THE WORK.
**DEMOlITION GENERAL NOTES:**

1. **DEMOlITION REQUIREMENTS ASSOCIATED WITH THE PROJECT:**
   - Prior to the Issuance of a Permit, the Contractor shall adhere to the requirements of the City of Philadelphia Building Code.
   - The Contractor shall submit a plan for review and approval by the City of Philadelphia Building Code enforcement.
   - The Contractor shall adhere to all applicable regulations and requirements for the issuance of a permit.
   - The Contractor shall submit a final report to the Building Code enforcement upon completion of the work.

2. **DEMOlITION OF EXISTING EQUIPMENT AND MATERIALS:**
   - The Contractor shall remove all existing equipment and materials as directed by the owner.
   - The Contractor shall provide a written report of all materials removed.

3. **DEMOLITION OF EXISTING SUPPORTS:**
   - The Contractor shall remove all existing supports and provide a written report of all materials removed.

4. **DEMOlITION OF EXISTING PIPING:**
   - The Contractor shall remove all existing piping and provide a written report of all materials removed.

5. **DEMOlITION OF EXISTING SUPPORTS: TO RESTORE STRUCTURAL CAPABILITIES:**
   - The Contractor shall remove all existing supports and provide a written report of all materials removed.

6. **DEMOlITION OF EXISTING DEBRIS:**
   - The Contractor shall remove all existing debris and provide a written report of all materials removed.

7. **DEMOlITION OF EXISTING INSULATION:**
   - The Contractor shall remove all existing insulation and provide a written report of all materials removed.

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MECHANICAL BASEMENT DEMOLITION PLAN

MECHANICAL CHILLED WATER PUMP DEMOLITION

MECHANICAL CONDENSER/PUMP DEMOLITION

DEMODATION GENERAL NOTES:

1. PRIOR TO COMMENCING ANY DEMOLITION WORK, THE CONTRACTOR SHALL REVIEW WITH THE PROJECT TEAM THE SPECIFICATIONS AND CONTRACT DOCUMENTS TO CONFIRM THE EXACT WORK TO BE PERFORMED. THE CONTRACTOR SHALL PROVIDE A WRITTEN REPORT TO THE PROJECT TEAM BEFORE BEGINNING THE DEMOLITION WORK.

2. PRIOR TO COMMENCING ANY DEMOLITION WORK, THE CONTRACTOR SHALL PROVIDE A WRITTEN REPORT TO THE PROJECT TEAM BEFORE BEGINNING THE DEMOLITION WORK.

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MECHANICAL NEW WORK PUMP CONNECTION AND FILTER SECTION

CHILLED WATER PUMP SCHEDULE

<table>
<thead>
<tr>
<th>Location</th>
<th>Model</th>
<th>Size (inch)</th>
<th>Capacity (GPM)</th>
<th>Flow (GPM)</th>
<th>Pressure (PSI)</th>
<th>Efficiency (%)</th>
<th>Manufacturer &amp; Model No.</th>
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</table>

PUMP VFD SCHEDULE

<table>
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<tr>
<th>Location</th>
<th>Model</th>
<th>Size (inch)</th>
<th>Capacity (GPM)</th>
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BAG FILTER SCHEDULE

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<tr>
<th>Location</th>
<th>Model</th>
<th>Size (inch)</th>
<th>Capacity (GPM)</th>
<th>Flow (GPM)</th>
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MECHANICAL BASEMENT PLAN - CONDENSER WATER PIPING

MECHANICAL NEW WORK VFD SUPPORT DETAIL

ANIMAL HOSPITAL LOCATION
EXISTING ELECTRICAL GEAR.

CHASE CHP 1 VFD 1 VFD 2 CHP 2

RUN MS/TP TRUNK THROUGH CHASE TO CHILLER ABOVE. TWISTED PAIR MUST BE RUN IN CONDUIT AS NOTED IN SPECIFICATIONS.

NEW CONTROLLER ENCLOSURE WITH TRANSFORMER 120V MAINTENANCE OUTLET.

EXISTING SMALL PRIMATE HOLDING BOOSTER PUMP

UTILIZE CHASE TO BRING MS/TP TWISTED COMMUNICATION TRUNK THROUGH EXISTING CHASE TO BASEMENT PLANT CONTROLLER ALONG THIS PATH.

THIS CHILLER SHALL BE PROVIDED AND EQUIPPED WITH SELF CONTAINED TRACER SC CONTROLS AND WILL COMMUNICATE BACNET THROUGH AN MS/TP TRUNK THROUGH THE NEW SUPERVISORY CONTROLLER IN THE BASEMENT.

(N)NEMA 1 ATC PANEL MOUNTED NEXT TO EXISTING ATC PANEL JOHNSON CONTROLS FX-80 120/24V TRANSFORMER 120V DUPLEX MAINTENANCE OUTLET JOHNSON CONTROLS FX-PCG CH-1 TRANE TRACER SC CONTROLLER BACNET INTERFACE IN SHAFT FROM BASEMENT TO ROOF LOW VOLTAGE POWER 120 VOLT INTO PANEL PLC IN NEMA 1 ENCLOSURE ZOO IT IP TO JACE INTERFACE MS/TP TRUNK ALL EXTERIOR COMMUNICATION PIPING SHALL BE ENCASED IN "ALUMINUM RIGID CONDUIT.

MECHANICAL BASEMENT CONTROLS GENERAL LAYOUT

MECHANICAL ROOF CONTROLS GENERAL LAYOUT

MECHANICAL NEW CONTROLS PANEL

NOT TO SCALE

CONTRACT REQUIREMENTS:
1. REFER TO SPECIFICATION SECTION 230993 FOR REQUIREMENTS IN THIS BUILDING FOR CONTROLS
2. IT IS A CONTRACT REQUIREMENT TO REMOVE ALL EXISTING CONTROLS ASSOCIATED WITH THE CHILLERS AND PUMPS. THIS TO INCLUDE ALL SENSORS, VALVES, CONTROLLERS, ETC... TRANSFORMERS CAN BE RE-USED IN EXISTING ENCLOSURE.
DEMO\LITION/RELOCATIONS: EACH TRADE CONTRACTOR SHALL BE
NOT FOR CONSTRUCTION
NOTE:
CHECKED BY
ED1.0
DP/GP
DRAWN BY
AS NOTED
SCALE
DATE
71-19-4365-01
DRAWING NO.
PROJECT NO.
PLAN - DEMOLITION
ELECTRICAL ROOF
DRAWING TITLE
1/8" = 1'-0"
ED1.0
MECHANICAL UP\GRADES
1
ELECTRICAL ROOF PLAN - DEMOLITION
ANIMAL HOSPITAL
PROJECT TITLE
PENNSYLVANIA
PHILADELPHIA
VERIFY ALL CONDITIONS AT JOB SITE.
8.
MINIMIZE DISTURBANCE TO SURROUNDING AREAS.
7.
COORDINATE ALL WORK WITH OTHER TRADES.
6.
PANEL SCHEDULES REVISED.
PANELBOARDS WHICH ARE AFFECTED BY THE DEMOLITION AND NEW WORK SHALL HAVE THE
BREAKER TO BECOME SPARE.
5.
REMAIN.
ALL SYMBOLS SHOWN LIGHTLY SOLID ARE EXISTING ELECTRICAL DEVICES/EQUIPMENT TO
REMOVED.
4.
E.C. SHALL VERIFY THE PANEL DESIGNATION AND CIRCUIT NUMBER FOR EACH DEVICE TO BE
REMOVED.
3.
EXTENT OF DEMOLITION AND ADDITIONAL NOTES.
2.
MECHANICAL EQUIPMENT SHALL BE REMOVED. REFER TO MECHANICAL DRAWINGS FOR
ALL ELECTRICAL DEVICES AND WIRING/CONDUIT ASSOCIATED WITH DEMOLISHED
1.
ELECTRICAL DEMOLITION NOTES
1.
ALL ELECTRICAL DEVICES AND MACHINERY ARE DESIGNATED AS DEMOLISHED
EQUIPMENT AND WILL NOT BE CONSIDERED TO BE IN SERVICE DURING
THE MANNER INTENDED OR RESULTING IN DECREASED OPERATIONAL
ELEMENTS AND SAFETY-RELATED COMPONENTS IN A LEVEL. COMPLY WITH GOVERNING REGULATIONS PERTAINING TO
ENVIRONMENTAL PROTECTION.
2.
LIMIT DUST AND DIRT RISING AND SCATTERING TO LOWEST PRACTICAL
LEVEL. USE TEMPORARY ENCLOSURES, OR OTHER SUITABLE METHODS TO
PREVENT FAILURE. DO NOT ENDANGER OTHER WORK.
3.
PROTECT PANEL SCHEDULES REVISED.
PANELBOARDS WHICH ARE AFFECTED BY THE DEMOLITION AND NEW WORK SHALL HAVE THE
BREAKER TO BECOME SPARE.
4.
REMAIN.
ALL SYMBOLS SHOWN LIGHTLY SOLID ARE EXISTING ELECTRICAL DEVICES/EQUIPMENT TO
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6.
COORDINATE ALL WORK WITH OTHER TRADES.
7.
MINIMIZE DISTURBANCE TO SURROUNDING AREAS.
8.
VERIFY ALL CONDITIONS AT JOB SITE.

ELE\CTRICAL ROOF PLAN - DEMOLITION
1/8" = 1'-0"
1. ELECTRICAL DEMOLITION NOTES

- ELECTRICAL REMOVABLE AND PERFECT CIRCUIT ASSOCIATED WITH DUCTWORK AND MECHANICAL EQUIPMENT SHALL BE REMOVED. REFER TO MECHANICAL DRAWINGS FOR POINT OF EXCAVATION AND ADDITIONAL NOTES.

- ALL EXISTING MATERIALS SHOWN ON DUCT AND MECHANICAL DRAWINGS SHALL REMAIN.

- EXISTING PANELS AND PANEL BOXES SHALL BE REMOVED TO POINT OF ORIGIN AND CIRCUIT BREAKER LOCATION AND GUARDED.

- PANELBOARDS WHICH ARE AFFECTED BY THE DEMOLITION AND NEW WORK SHALL HAVE THE PANEL SCHEDULES REvised.

- CONTRACTORS ARE RESPONSIBLE FOR CLEARING WORK AREAS OF CONSTRUCTION EQUIPMENT AND MATERIAL RELATING TO THEIR RESPECTIVE TRADE.

- REMOVE CHILLER SUPPORT. REFER TO NOTES THIS SHEET FOR INERTIA PAD AND UNISTRUT.

- PANEL "LPB" TO BE REMOVED.

- SWITCH, ASSOCIATED WIRING, CONDUIT AND ETC. MAINTAIN THE TRANSITION WITH 2500A MAIN CIRCUIT BREAKER SHALL BE REMOVED AND REPLACED WITH NEW TRANSITION WITH 2500A MAIN CIRCUIT BREAKER SECTION.

- CO-7 - 07/09/19: CHECKED BY DP/GP AS NOTED.

- O/E - 07/19/19: CHECKED BY ED2.0 SCALE 1/8" = 1'-0".

- NOT FOR CONSTRUCTION.

2. ELECTRICAL BASEMENT PLAN - INITIAL PHASE DEMOLITION

- ELECTRICAL BASEMENT PLAN - FINAL PHASE DEMOLITION

3. DEMOLITION GENERAL NOTES

- CONTRACTORS SHALL REMOVE AND DELIVER THE ANY MATERIALS THE CONTRACTOR SHALL REMOVE AND DELIVER THE ANY MATERIALS.

- ELECTRICAL DEMOLITION NOTES

- ELECTRICAL REMOVABLE AND PERFECT CIRCUIT ASSOCIATED WITH DUCTWORK AND MECHANICAL EQUIPMENT SHALL BE REMOVED. REFER TO MECHANICAL DRAWINGS FOR POINT OF EXCAVATION AND ADDITIONAL NOTES.

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- CO-7 - 07/09/19: CHECKED BY DP/GP AS NOTED.

- O/E - 07/19/19: CHECKED BY ED2.0 SCALE 1/8" = 1'-0".

- NOT FOR CONSTRUCTION.

4. ELECTRICAL BASEMENT PLAN - DEMOLITION

- ELECTRICAL BASEMENT PLAN - INITIAL PHASE DEMOLITION
SHEET NOTES:

1. REPLACE EXISTING EATON IQ DATA WITH THE EATON IQ DP-4000 ELECTRICAL DISTRIBUTION SYSTEM MONITORING DEVICE. PROVIDE ALL REQUIRED ACCESSORIES, WIRING, TERMINATIONS, PROGRAMMING AND CALIBRATION. PROVIDE AS A SEPARATE, ADD-ON ALTERNATE BID ITEM.

2. THE EXISTING 750 KVA TRANSFORMER SHALL BE PROVIDED WITH NEW EATON TC-100 TRANSFORMER TEMPERATURE CONTROLLER, MONITOR(S), COOLING FANS, THERMOCOUPLES, ALARMS, ALL WIRING AND ETC TO ASSURE A COMPLETE AND FUNCTIONING SYSTEM. PROVIDE AS A SEPARATE, ADD-ON ALTERNATE BID ITEM.

3. THE AFOREMENTIONED INSTALLATION OF THE TRANSFORMER'S COOLING FANS AND CONTROLLER(S) SHALL BE COMPLETED PRIOR TO COMMENCING OF ANY WORK ASSOCIATED WITH SMALL PRIMATE HOLDING AND/OR ANIMAL CLINIC PROJECTS.

4. REPLACE EXISTING SPARE CIRCUIT BREAKER, AVAILABLE AFTER DEMOLITION OF EXISTING PUMP IS COMPLETED. FIELD VERIFY CIRCUIT NUMBER. ONLY ONE PUMP WILL OPERATE AT THE SAME TIME.

NOTE:

PROJECT NO.: 71-19-4365-01
DRAWING NO.: E2.0
DRAWN BY: AS NOTED
CHECKED BY: AS NOTED
DATE: DRAFT
SCALE: AS NOTED
PROJECT TITLE: ELECTRICAL NEW WORK BASEMENT PLAN
DRAWING TITLE: ELECTRICAL BASEMENT PLAN - POWER
SHEET NOTES:

1. REPLACE IDENTIFICATION ON ALL VERTICAL BUS WORK, VERTICAL BUSWORK, AND VERTICAL BUSWORK RACKS WITH THE EATON IQ DP-4000 ELECTRICAL DISTRIBUTION SYSTEM MONITORING DEVICE. PROVIDE ALL REQUIRED ACCESSORIES, WIRING, TERMINATIONS, PROGRAMMING AND CALIBRATION. PROVIDE AS A SEPARATE, ADD-ON ALTERNATE BID ITEM. 

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3. ALL WORK SHALL BE COORDINATED AND APPROVED BY THE OWNER. THE ELECTRICAL CONTRACTOR SHALL OBTAIN WRITTEN NOTICE TO PROCEED PRIOR TO COMMENCEMENT OF ANY WORK THAT REQUIRE SHUTTING DOWN ELECTRICAL SERVICE AND/OR DE-ENERGIZING OF ANY SYSTEM'S EQUIPMENT AND/OR SYSTEMS. ALL WORK AT THE SWITCHBOARD SHALL BE DESIGNATED AS OFF-HOURS WORK. THIS WORK SHALL BE DONE IN (2) FOUR-HOUR SHUTDOWNS: FIRST - INSTALLATION OF THE TRANSFORMER'S FAN COOLING KIT, SECOND SHUTDOWN - INSTALLATION OF THE CIRCUIT BREAKER AND BUS SYSTEM. IF LONGER SHUT-DOWN IS REQUIRED, IT HAS TO BE APPROVED BY ZOO AND DPP BEFORE COMMENCEMENT ANY WORK. 

4. **NOT TO SCALE** 

   SINGLE LINE DIAGRAM

   SCOPE OF WORK

   SET UP FOR CONSTRUCTION

   NOT FOR CONSTRUCTION
NOT FOR CONSTRUCTION

NOTE:

GSP

CHECKED BY

E6.0

DP/GP

DRAWN BY

AS NOTED

SCALE

DATE

71-19-4365-01

DRAWING NO.

PROJECT NO.

AND DIAGRAMS

ELECTRICAL DETAILS

DRAWING TITLE

Mechanical Upgrades

Animal Hospital

PROJECT TITLE

PENNSYLVANIA

PHILADELPHIA

[Image]

SEALS

NOTES:

1. MOUNTING HEIGHTS SHOWN ARE FOR THE CENTER OF THE UNIT. REFER TO THE DRAWINGS FOR DETAILS OF THE MOUNTING DEVICES OR DETAILS SHOWN ON THE ARCHITECTURAL DETAILS.

2. THE HEIGHT OF MOUNTING HOLES SHALL BE ADHERED TO SHOWN PRECEDING NOTES OR DETAILS SHOWN ON THE DRAWINGS OR DETAILS SHOWN ON THE ARCHITECTURAL DETAILS.

3. ALL MOUNTING MOUNTING TO WALLS, CURBS, AND OTHER PROJECTIONS TO FACILITATE PROPER FLASHING.

4. MOUNTING TO WALLS, CURBS, AND OTHER PROJECTIONS TO FACILITATE PROPER FLASHING.

5. MOUNTING CHANNEL

NOT TO SCALE:

1. NOT TO SCALE:

2. NOT TO SCALE:

3. NOT TO SCALE:

4. NOT TO SCALE:

5. NOT TO SCALE:

6. NOT TO SCALE:

7. NOT TO SCALE:

8. NOT TO SCALE:

9. NOT TO SCALE:

CONDUIT ROOF PENETRATION DETAIL

NOT TO SCALE

TYPICAL STANDARD MOUNTING HEIGHTS DETAIL

NOT TO SCALE

1. MOUNTING HEIGHTS SHOWN ARE FOR THE CENTER OF THE UNIT. REFER TO THE DRAWINGS FOR DETAILS OF THE MOUNTING DEVICES OR DETAILS SHOWN ON THE ARCHITECTURAL DETAILS.

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7. NOT TO SCALE:

8. NOT TO SCALE:

9. NOT TO SCALE:

CONDUIT ROOF PENETRATION DETAIL

NOT TO SCALE

TYPICAL STANDARD MOUNTING HEIGHTS DETAIL

NOT TO SCALE

1. MOUNTING HEIGHTS SHOWN ARE FOR THE CENTER OF THE UNIT. REFER TO THE DRAWINGS FOR DETAILS OF THE MOUNTING DEVICES OR DETAILS SHOWN ON THE ARCHITECTURAL DETAILS.

2. THE HEIGHT OF MOUNTING HOLES SHALL BE ADHERED TO SHOWN PRECEDING NOTES OR DETAILS SHOWN ON THE DRAWINGS OR DETAILS SHOWN ON THE ARCHITECTURAL DETAILS.

3. ALL MOUNTING MOUNTING TO WALLS, CURBS, AND OTHER PROJECTIONS TO FACILITATE PROPER FLASHING.

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