



**ARLINGTON COUNTY, VIRGINIA  
OFFICE OF THE PURCHASING AGENT  
INVITATION TO BID NO. 24-DES-ITB-360**

**ADDENDUM NO. 1**

Arlington County (hereinafter referred to as the "County") Invitation to Bid (ITB) No. 24-DES-ITB-336 for Air Handler Replacement is amended as follows:

- **THE COUNTY IS HEREBY EXTENDING THE BID DUE DATE UNTIL JANUARY 26, 2024 AT 2:00 P.M.**
- **THE COUNTY IS HEREBY EXTENDING THE QUESTIONS DEADLINE.**

Questions regarding the original solicitation must be submitted by January 12, 2024 at 5:00 p.m. eastern time to be considered for an addendum. All questions received by the question deadline will be responded to within vendor registry and posted for all bidders. The system will not accept any questions after this date and time.

- **THE COUNTY WILL HOLD TWO ADDITIONAL SITE VISITS TO ALLOW BIDDERS THE OPPORTUNITY TO VIEW AND TOUR THE ELECTRICAL ROOM IN THE BASEMENT OF THE BUILDING. OPTIONAL SITE VISITS WILL BE HELD ON JANUARY 4, 2024, AT 10:00 A.M. AND JANUARY 8, 2024 AT 12:00 P.M. AT 2020 14<sup>TH</sup> STREET, ARLINGTON VA 22201. BIDDERS DESIRING TO ATTEND THE ADDITIONAL SITE VISIT SHOULD EMAIL [BHENLEY@ARLINGTONVA.US](mailto:BHENLEY@ARLINGTONVA.US) BY 4:00 P.M. THE DAY PRIOR TO THE SITE VISIT.**

- **THE COUNTY HAS MADE THE FOLLOWING DRAWING CLARIFICATIONS:**

**I. DRAWING M-2-01:**

- A. The 7<sup>th</sup> Floor Plan-HVAC-New Work: Provide sprinkler work is similar to 4<sup>th</sup>, 5<sup>th</sup> and 6<sup>th</sup> Floor Plans.

**II. DRAWING E-6-01:**

- A. Z Power Riser Diagram-Demolition: Feeder from Penthouse to the Main Switchgear demolition was accomplished under a previous Contract and is not in the Scope of this Contract.
- B. Riser Diagram Notes: Note 3 was accomplished under a previous Contract and is not in the Scope of this Contract.

**III. DRAWING E-6-02:**

- A. Power Riser Diagram-New Work: Feeder from Penthouse to the Main Switchgear work was accomplished under a previous Contract and is not in the Scope of this Contract.
- B. Diagram Notes: Note 8 was accomplished under a previous Contract and is not in the Scope of this Contract.

**IV. DRAWING E-6-03:**

- A. Load Analysis: Equipment associated with the Penthouse was accomplished under a previous Contract and is not in the Scope of this Contract.

- **THE COUNTY HAS AMENDED THE FOLLOWING SUPPLEMENTARY SPECIFICATIONS:**
  - I. **ADD SPRINKLER SYSTEM OUTAGES AS SHOWN BELOW.**
    - 24. Sprinkler System Outages  
The contractor shall minimize interruptions the sprinkler system service. Refer to ATTACHMENT B – Specifications, Section 211313 – wet-pipe sprinkler system, 1.9 field conditions for outages. During outages a fire-watch must be conducted per Arlington County Code Chapter 8.1 Fire Prevention Code.
  - II. **REPLACE SECTION 11. SCHEDULING AND COORDINATION OF MECHANICAL/UTILITY DISRUPTIONS WITH THE FOLLOWING:**
    - 11. Scheduling and Coordination of Mechanical/Utility Disruptions  
The Contractor shall provide the County 72-hours advanced notice prior to any mechanical or utility disruptions to the building. Outages should be scheduled for off-hours and be limited in duration to minimize the disruption to businesses and tenants of the building. Prior to performing the AHU replacement work, the Contractor shall schedule an off-hour outage and install isolation valves so the work on each floor can be completed without affecting system operation for the entire building. The System also supplies hot and cold water to the AHU located in the basement-level restaurant, Ragtime, and all outages affecting this space should be coordinated and scheduled around the restaurants operating hours. With each AHU replacement, the outage shall be limited to no longer than 72-hours per floor, and shall be completed off-hours and over a weekend to minimize disruption to the building occupants. Floors 5 and 6 are occupied and therefore outages on those floors shall be conducted during **weekends** and **off-hours** to limit tenant disruption. Outages on floor 7 **cannot** occur while Arlington County's hypothermia shelter is open from November 2023 through March 2024.
- **THE SUMMARY OF THE PRE-BID CONFERENCE HELD ON NOVEMBER 29, 2023 IS AS FOLLOWS:**  
During the pre-bid conference, the County reviewed key dates related to the ITB, prevailing wage requirements for construction services and the project officer provided a brief overview of the scope of services. Information highlighted during the scope of work included notices to as well as the different tenants currently in the building which includes a restaurant, hypothermia shelter and
- **THE PRE-BID CONFERENCE SIGN-IN SHEETS ON WEDNESDAY, NOVEMBER 29, 2023 AT 11:00 A.M. IS ATTACHED.**
- **THE PRE-BID SITE VISIT SIGN-IN SHEET ON WEDNESDAY, NOVEMBER 29, 2023 AT 1:00 P.M. AND DECEMBER 1, 2023 AT 11:00 A.M ARE ATTACHED.**
- **THE COUNTY HAS RECEIVED THE FOLLOWING QUESTIONS IN RESPONSE TO THIS ITB. QUESTIONS AND RESPONSES ARE INCLUDED BELOW.**
  - **Question #1: To include the mixing boxes as show on the drawing detail, AHU-4 & 5 might need to be upsized to a size 12 instead of the scheduled size 10. Did the AE take into account the configuration of the mixing boxes on the selected units?**  
**Answer #1:** The AE has considered the mixing box configurations. The mixing box size should follow the manufacturer’s recommendations.
  - **Question #2: Access to the floors was through a rather small elevator. Is there a larger elevator that can accommodate the unit sections to get them up to each floor?**

**Answer #2:** The only available freight elevator, that connects from the loading dock to floors 4 -7, has the following approximate clearances:

- Door width: 41 inches
  - Door height: 80 inches
  - Elevator length: 80 inches
  - Elevator width: 50 1/2 inches
  - Elevator height: 93 inches
- **Question #3: The only door from the “loading dock” is a 3 foot door. Why does the AE show walls, doorframes and water fountains being removed to access the machine rooms, when the first door the equipment needs to be taken through is less than 3 feet wide?**

**Answer #3:** Per Exhibit D Supplementary Specifications, 10. Architectural Work, the architectural work to access the machine rooms is to facilitate the removal and installation of mechanical equipment. The Contractor may choose to reduce the architectural work if the existing openings are sufficient to remove and install the mechanical equipment.

- **Question #4: Is there a shutoff valve on each floor in mechanical room or will the entire building need to be shut down?**

**Answer #4:** There are currently no existing shutoff valves in the mechanical rooms. Either scheduled building drain down or pipe freezing will be required. See Cooling/Heating Coil Detail (3-Way Valve) detail on sheet M-5-01 for coil piping arrangement.

- **Question #5: Can mechanical equipment and material be stored in working area? Or will contractor be provided a separate staging area?**

**Answer #5:** Yes, mechanical equipment and materials can be stored on site Per Exhibit D Supplementary Specifications, 4. Material Storage. Additional staging area may be provided on the 4th floor, as need, with prior County approval.

- **Question #6: Please confirm that there is no fire alarm scope included in this project?**

**Answer #6:** The fire alarm scope includes the air handling unit smoke detectors as indicated on ATTACHMENT C - Drawings, Sheet M-7-03, AHU Control Sequence of Operation Note 5.

- **Question #7: What are the work hours for this project?**

**Answer #7:** Please reference Section 11. Scheduling and Coordination of Mechanical/Utility Disruptions which has been revised above for the project work hours.

- **Question #8: Please provide the manufacturer's name and model number of the main switchboard in Garage B2.**

**Answer #8:** The main switchboard manufacturer's name is Park Detroit. For more details refer to images attached of the main switchboard provided as Attachment A to this Addendum.

- **Question #9:** Please provide the distance required for 2 sets of 4#300MCM + 1#1AWG in the two existing conduits, per note 8/E-6-02.

**Answer #9:** Note 8/E-602 on Attachment C – Drawings was deleted under this addendum as the work was accomplished under a previous contract and is not in this project scope. Refer to Addendum 1, III. Drawing E-6-02.

**Question #10:** Please provide the floor plans that indicate the location of the main switchboard and where the conduits need to be penetrated between Garage B2 and Garage B1 for the scope mentioned in note 6/E-6-02

**Answer #10:** Refer to Addendum 1, Add Drawing S1-03, for the Electrical Room location only. There are no available drawings showing the penetration locations required to follow the existing path per note 6/E-6-02. Bidders are encouraged to attend the additional site visits noted in this addendum.

- **Question #11:** What are the ceiling heights of the penthouse mechanical room and the garage floors?

**Answer #11:** Connections for the Siemens Control System are the only scope of work in the Penthouse. Therefore, the ceiling heights for the penthouse are not applicable. The approximate ceiling heights for the garage are as follows: G: 12'-0", B-1: 7'-6" , B-2: 7'-6".

- **Question #12:** What NEMA rating is required for disconnect switches and combination motor starters in the penthouse mechanical room?

**Answer #12:** The NEMA rating is not applicable as disconnecting switches and combination motor starters in the penthouse are not part of the scope of work. Connections for the Siemens Control System are the only scope of work in the Penthouse.

- **Question #13:** Please provide wage determination, if applicable.

**Answer #13:** The DOLI Wage determination is Exhibit A of the solicitation.

The balance of the solicitation remains unchanged.

Arlington County, Virginia  
Briana Henley  
Procurement Officer  
[Bhenley@arlingtonva.us](mailto:Bhenley@arlingtonva.us)

**RETURN THIS PAGE, FULLY COMPLETED AND SIGNED, WITH YOUR BID:**

**BIDDER ACKNOWLEDGES RECEIPT OF ADDENDUM NUMBER 1.**

**FIRM NAME:** \_\_\_\_\_

**AUTHORIZED SIGNATURE:** \_\_\_\_\_ **DATE:** \_\_\_\_\_



**ARLINGTON  
VIRGINIA**

**ARLINGTON COUNTY GOVERNMENT**

**OFFICE OF THE PURCHASING AGENT**

**OPTIONAL PRE-BID SITE VISIT ATTENDEES LIST**

**FOR:** Air Handler Replacement  
**DATE & TIME:** November 29, 2023 at 1:00 p.m.  
**PLACE:** 2020 14th Street, Arlington VA 22201  
**BID/PROPOSAL #:** 24-DES-ITBPW-336

ATTENDEE NAME	COMPANY REPRESENTED
Trey Rosch	Service Mechanical
ARON KINNEY	AIA Transfer
Jonathan Quintanilla	TMC Construction



**ARLINGTON**  
VIRGINIA

**ARLINGTON COUNTY GOVERNMENT**

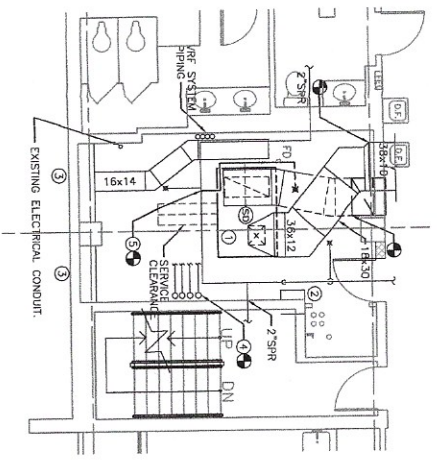
**OFFICE OF THE PURCHASING AGENT**

**OPTIONAL PRE-BID SITE VISIT ATTENDEES LIST**

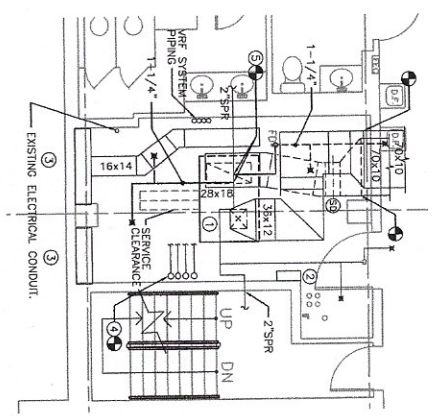
**FOR:** Air Handler Replacement  
**DATE & TIME:** December 1, 2023 at 11:00 a.m.  
**PLACE:** 2020 14th Street, Arlington VA 22201  
**BID/PROPOSAL #:** 24-DES-ITBPW-336

ATTENDEE NAME	COMPANY REPRESENTED
John Oglesbee	Do Solutions
Amin Hussein	Optima Contracting LLC
Kald Ali	Optima Contracting LLC
Pepper Bethel	Optima Contracting
Sean Gaghan	Gaghan Mechanical
Henke Kautsch	Duct and vent cleaning.
John Evans	ALMERTON INC

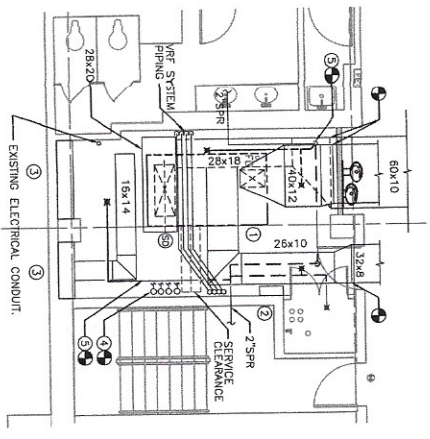




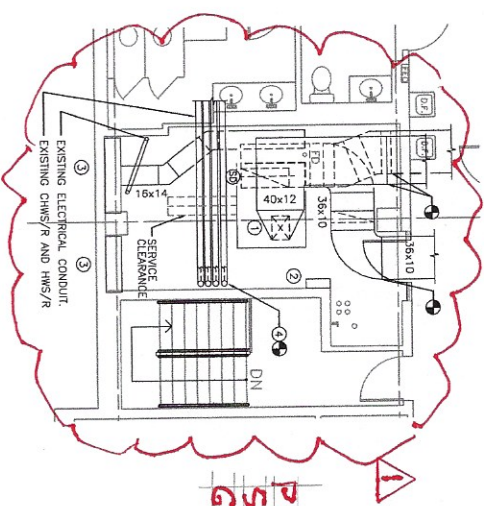
4 TH FLOOR PLAN - HVAC - NEW WORK  
SCALE: 1/4" = 1'-0"



5 TH FLOOR PLAN - HVAC - NEW WORK  
SCALE: 1/4" = 1'-0"



6 TH FLOOR PLAN - HVAC - NEW WORK  
SCALE: 1/4" = 1'-0"



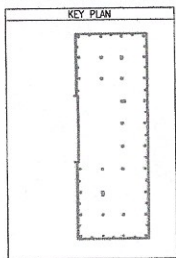
7 TH FLOOR PLAN - HVAC - NEW WORK  
SCALE: 1/4" = 1'-0"

**PROVIDE SPRINKLER  
SIMILAR TO 4TH, 5TH AND  
6TH FLOOR PLANS**

- GENERAL NOTES**
1. FIELD VERIFY PRIOR TO DEMOLITION. NOTIFY OWNER REPRESENTATIVE IF ANY POSSIBLE OBSTRUCTION TO NEW WORK.
  2. EXISTING HOT WATER SYSTEM SERVING 8RU ON 2ND FLOOR AND AHU AT RESTAURANT. EXISTING CHILLED WATER SERVING 8RU ON 2ND FLOOR. COORDINATE AND SCHEDULE FINISH TO NEW WORK.
  3. COORDINATE WITH ARLINGTON COUNTY, ASBESTOS ABATEMENT IS NOT IN SCOPE AND SHALL BE DONE BY COUNTY.
- KEY NOTES**
1. NEW AHU WITH DUCTWORK, PIPING, SUPPORTS AND CONTROLS. PROVIDE 1/2" CONDENSATE DRAIN TO NEAREST FLOOR DRAIN. PROVIDE DUCT SMOKE DETECTOR AT RETURN AIR DUCTWORK.
  2. 120V AHU CONTROL PANEL, POWERED BY ELECTRICAL. COORDINATE ON AIR AND RETURN AIR DAMPERS, THE DAMPER ACTUATORS SHALL BE POWER FROM CONTROL PANEL.
  3. NEW FLENUM SIZE MATCHING EXISTING LOUVER.
  4. INSTALL 1" 1-1/2" HWS/R, 2" CWS/R AND ASSOCIATED CONTROLS FOR AHU. INSULATE PIPING AND RESE.
  5. INSTALL SPRINKLER HEAD AND 1" SPR PIPING UNLESS INDICATED ON PLAN.

REV	DATE	DESCRIPTION
1	02/19/23	REVISED PERMIT SET
2	02/22/23	REVISED PERMIT SET
3	03/24/23	REVISED FOR PERMIT
4	07/13/23	REDUCED SCOPE
5	09/23/23	PERMIT SET

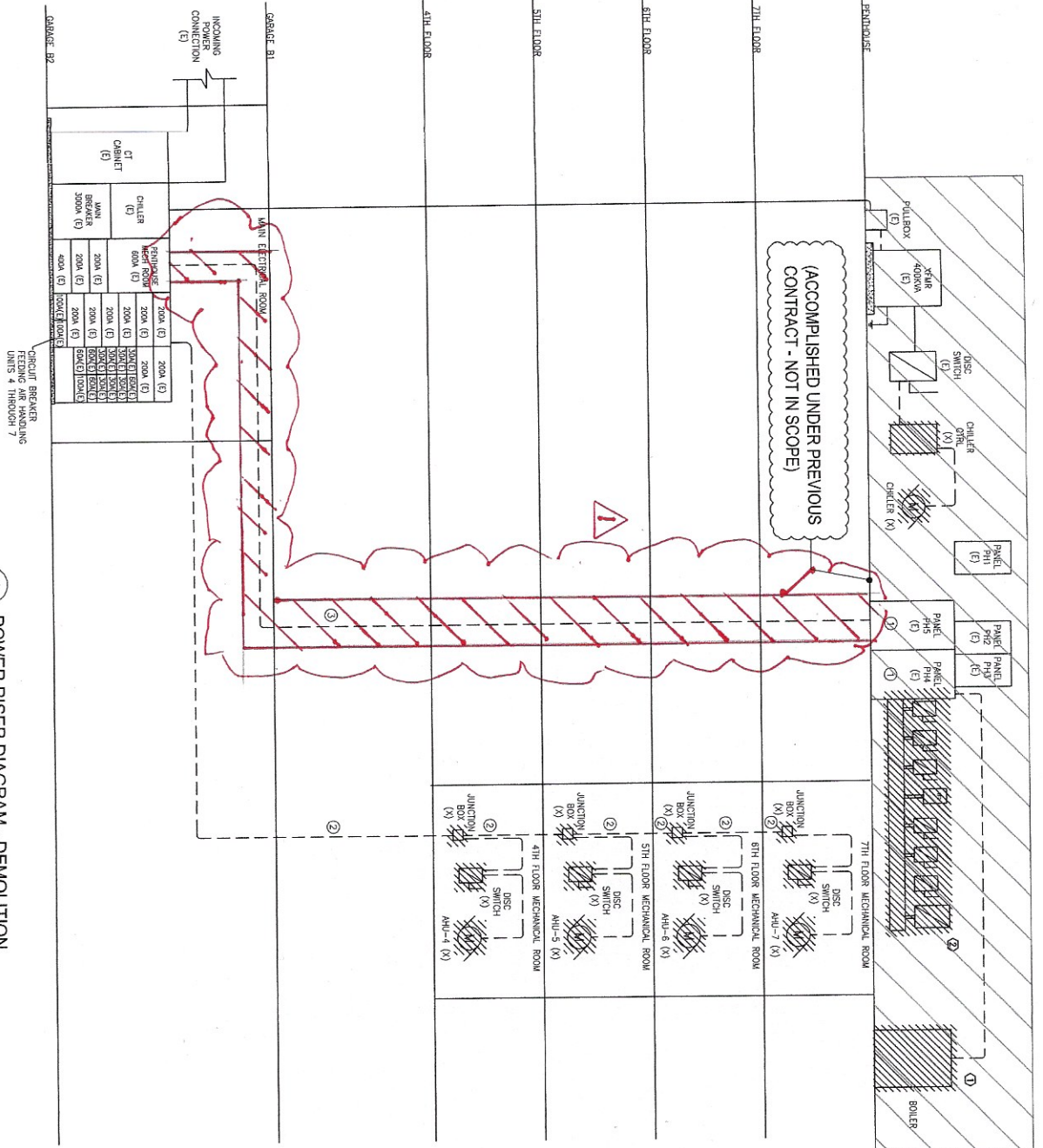
USE GRAPHIC SCALE FOR REDUCED PRINTS



**CONTRACTOR**  
**CONTRACT NUMBER**  
**A/E DESIGN**  
**CONTRACT**

**SEAL(S)**

CLIENT	
ARLINGTON COUNTY GOVERNMENT ARLINGTON VA 22201	
NAME: ARLINGTON COUNTY	
ADDRESS: 400 N. DALE STREET ARLINGTON VA 22201	
BUILDING	
NUMBER: 3201 14TH STREET	
OTHER ROOMS: HVAC REPLACEMENT	
DESCRIPTION: HVAC REPLACEMENT	
PROJECT NUMBER: 17-135-118	
PROJ. YEAR: 10-18-10	
DRAWING	
DRAWN BY: [Signature]	DATE: 02/12/18
CHECKED BY: [Signature]	TITLE: MECHANICAL PARTIAL PLANS - NEW WORK
NUMBER: M 2 01	SHEET: 02



CIRCUIT BREAKER  
FEEDING AIR HANDLING  
UNITS 4 THROUGH 7

1  
E-011-090 SCALE: NONE

POWER RISER DIAGRAM - DEMOLITION

RISER DIAGRAM NOTES

- ① CONTRACTOR TO PROVIDE AND DEMOLISH THE CONNECTION OF MECHANICAL EQUIPMENT IN NEW WORK.
- ② DEMOLISH POWER RISER SERVING AIR HANDLING UNITS AHU-4, AHU-5, AHU-6 & AHU-7, INCLUDING CONDUIT, JUNCTION BOXES AND WIRE BAYS TO SOURCE, COMPRESSOR, CONDENSER AND DRAIN PAN (DO NOT REMOVE OR DESTROY).
- ③ REMOVE EXISTING FEEDER FROM THE ELECTRICAL SWITCHBOARD IN THE MAIN ELECTRICAL ROOM, RECONNECT MECHANICAL ROOM IN MECHANICAL ROOM TO NEW FEEDER CONNECTION.

PHASING NOTES

- ① PROVIDE BOILER AND ASSOCIATED PUMPS AND DECKING.
- ② PROVIDE CHILLER, INDICATED PUMPS, CONTROLS, VENTILATION, LIGHTING AND ASSOCIATED DEMOLITION, EXISTING COOLING PUMPS, MECHANICAL ROOM AND BE CONNECTED TO CHILLER

REV	DATE	DESCRIPTION
1	02/12/13	ISSUED FOR SET
2	02/16/13	REMOVED FOR SET
3	02/19/13	REMOVED FOR SET
4	02/25/13	PERMIT SET

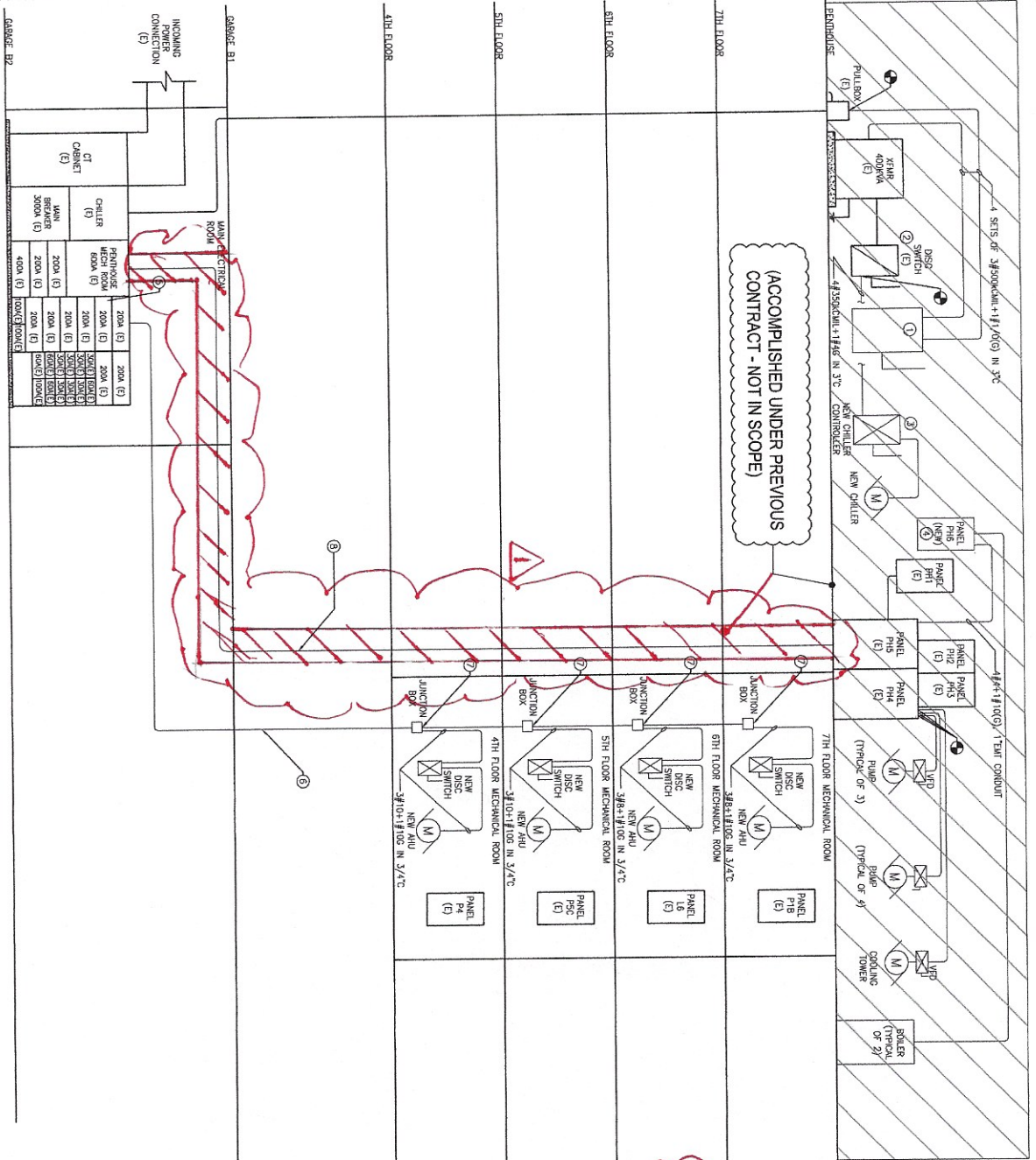
NO.	DATE	BY	CHKD
1	02/12/13	JYP	...

NO.	DATE	BY	CHKD
1	02/12/13	JYP	...

NO.	DATE	BY	CHKD
1	02/12/13	JYP	...

NO.	DATE	BY	CHKD
1	02/12/13	JYP	...





(ACCOMPLISHED UNDER PREVIOUS CONTRACT - NOT IN SCOPE)

**RISER DIAGRAM NOTES**

- ① NEW 1200A WIN-RISER DISCONNECT SWITCH.
- ② REPLACE RISER AT EXISTING DISCONNECT SWITCH PANEL WITH NEW 1200A WIN-RISER DISCONNECT SWITCH. PANEL TO BE RELOCATED TO CHILLER MANUFACTURER'S PANEL.
- ③ NEW MOTOR STARTER CONTROLLER FOR CHILLER.
- ④ NEW PANEL 965, 70A, 208/120V, 3φ, 4W.
- ⑤ REMOVE THE EXISTING DISCONNECT SWITCH L1-E, 1200-BREAK SWITCH WITH NEW RISER SERVICING NEW AIR HANDLING UNITS.
- ⑥ PROVIDE NEW AIR HANDLING UNITS, PRODUCT OFFER. PROVIDE NEW LABEL TO SWITCH COMPARTMENT.
- ⑦ PROVIDE NEW RISER 125A, TO SERVICING NEW RISER. PROVIDE NEW RISER 125A, TO SERVICING NEW RISER. PROVIDE NEW RISER 125A, TO SERVICING NEW RISER.
- ⑧ PROVIDE NEW RISER 125A, TO SERVICING NEW RISER. PROVIDE NEW RISER 125A, TO SERVICING NEW RISER.
- ⑨ NOT USED.

**PHASING NOTES**

- ① PROVIDE BOILER AND ASSOCIATED PUMPS AND DISCONNECT.
- ② PROVIDE CHILLER, INDICATED PUMPS, CONDENSERS, VENTILATION, LIGHTING AND TOWER. ALL REMAIN AND BE CONNECTED TO CHILLER.

ROOM	200A (E)	200A (E)	200A (E)	200A (E)	200A (E)
CHILLER	200A (E)	200A (E)	200A (E)	200A (E)	200A (E)
FAN ROOM	200A (E)	200A (E)	200A (E)	200A (E)	200A (E)
BOILER	200A (E)	200A (E)	200A (E)	200A (E)	200A (E)
CONDENSERS	200A (E)	200A (E)	200A (E)	200A (E)	200A (E)
VENTILATION	200A (E)	200A (E)	200A (E)	200A (E)	200A (E)
LIGHTING	200A (E)	200A (E)	200A (E)	200A (E)	200A (E)
TOWER	200A (E)	200A (E)	200A (E)	200A (E)	200A (E)

1 POWER RISER DIAGRAM - NEW WORK  
SCALE: NONE

<b>CONTRACTOR</b> CONSTRUCTION 5010 Woodloch Avenue, Suite 100 Arlington, VA 22201 Tel: (703) 528-2200 Fax: (703) 528-2541		<b>KEY PLAN</b>		<b>GRAPHIC SCALE</b> USE GRAPHIC SCALE FOR REDUCED PRINTS	
<b>CLIENT</b> ARRLINGTON COUNTY GOVERNMENT 1400 N. LIME STREET ARLINGTON, VA 22201		<b>A/E DESIGN</b> CONSULT		<b>REVISIONS</b>	
<b>BUILDING</b> NAME: ARRLINGTON COUNTY ADDRESS: 1400 N. LIME STREET ARLINGTON, VA 22201		<b>SEAL(S)</b> 		02/16/23 REVISED PERMIT SET 03/24/17 REVISED PERMIT SET 07/13/17 REVISED PERMIT SET 09/23/16 PERMIT SET	
<b>PROJECT</b> NUMBER: BID 1-17-15-11B DATE: 02/12/19		<b>OTHER BIDS</b> 2020 14th STREET HVAC REPLACEMENT JAN 19-18-1000		02/16/23 REVISED PERMIT SET 03/24/17 REVISED PERMIT SET 07/13/17 REVISED PERMIT SET 09/23/16 PERMIT SET	
<b>DRAWING</b> CHECKED BY: [Signature] TITLE: POWER RISER DIAGRAM - NEW WORK NUMBER: E 6 02 SHEET 6 OF 6					



LUMINAIRE SCHEDULE

FIGURE TYPES	MANUFACTURER (OR APPROVED EQUIV.)	CATALOG NO. (OR APPROVED EQUIV.)	DESCRIPTION (OR APPROVED EQUIV.)	MOUNTING HEIGHT (FEET)	LUMENS		REMARKS
					TYPE	WOL	
A	H.E. WILLIAMS	GL-4-150/835-WH-11	1'x4' PENDANT MOUNTED UNDER LED LIGHTING	PENDANT	LED 15W	120/277	COORDINATE MOUNTING WITH ROOMCASTER BULBS AND 5'x8'S
B	H.E. WILLIAMS	GL-4-150/840-WH-11	1'x2' SPRING MOUNTED UNDER LED LIGHTING	CEILING	LED 27W	120/277	
C	H.E. WILLIAMS	GL-4-150/840-WH-11	1'x2' SPRING MOUNTED UNDER LED LIGHTING	CEILING	LED 27W	120/277	
D	H.E. WILLIAMS	GL-4-150/840-WH-11	1'x2' SPRING MOUNTED UNDER LED LIGHTING	CEILING	LED 27W	120/277	
E	H.E. WILLIAMS	GL-4-150/840-WH-11	1'x2' SPRING MOUNTED UNDER LED LIGHTING	CEILING	LED 27W	120/277	
F	H.E. WILLIAMS	GL-4-150/840-WH-11	1'x2' SPRING MOUNTED UNDER LED LIGHTING	CEILING	LED 27W	120/277	
G	H.E. WILLIAMS	GL-4-150/840-WH-11	1'x2' SPRING MOUNTED UNDER LED LIGHTING	CEILING	LED 27W	120/277	
H	H.E. WILLIAMS	GL-4-150/840-WH-11	1'x2' SPRING MOUNTED UNDER LED LIGHTING	CEILING	LED 27W	120/277	
I	H.E. WILLIAMS	GL-4-150/840-WH-11	1'x2' SPRING MOUNTED UNDER LED LIGHTING	CEILING	LED 27W	120/277	
J	H.E. WILLIAMS	GL-4-150/840-WH-11	1'x2' SPRING MOUNTED UNDER LED LIGHTING	CEILING	LED 27W	120/277	
K	H.E. WILLIAMS	GL-4-150/840-WH-11	1'x2' SPRING MOUNTED UNDER LED LIGHTING	CEILING	LED 27W	120/277	
L	H.E. WILLIAMS	GL-4-150/840-WH-11	1'x2' SPRING MOUNTED UNDER LED LIGHTING	CEILING	LED 27W	120/277	
M	H.E. WILLIAMS	GL-4-150/840-WH-11	1'x2' SPRING MOUNTED UNDER LED LIGHTING	CEILING	LED 27W	120/277	
N	H.E. WILLIAMS	GL-4-150/840-WH-11	1'x2' SPRING MOUNTED UNDER LED LIGHTING	CEILING	LED 27W	120/277	
O	H.E. WILLIAMS	GL-4-150/840-WH-11	1'x2' SPRING MOUNTED UNDER LED LIGHTING	CEILING	LED 27W	120/277	
P	H.E. WILLIAMS	GL-4-150/840-WH-11	1'x2' SPRING MOUNTED UNDER LED LIGHTING	CEILING	LED 27W	120/277	
Q	H.E. WILLIAMS	GL-4-150/840-WH-11	1'x2' SPRING MOUNTED UNDER LED LIGHTING	CEILING	LED 27W	120/277	
R	H.E. WILLIAMS	GL-4-150/840-WH-11	1'x2' SPRING MOUNTED UNDER LED LIGHTING	CEILING	LED 27W	120/277	
S	H.E. WILLIAMS	GL-4-150/840-WH-11	1'x2' SPRING MOUNTED UNDER LED LIGHTING	CEILING	LED 27W	120/277	
T	H.E. WILLIAMS	GL-4-150/840-WH-11	1'x2' SPRING MOUNTED UNDER LED LIGHTING	CEILING	LED 27W	120/277	
U	H.E. WILLIAMS	GL-4-150/840-WH-11	1'x2' SPRING MOUNTED UNDER LED LIGHTING	CEILING	LED 27W	120/277	
V	H.E. WILLIAMS	GL-4-150/840-WH-11	1'x2' SPRING MOUNTED UNDER LED LIGHTING	CEILING	LED 27W	120/277	
W	H.E. WILLIAMS	GL-4-150/840-WH-11	1'x2' SPRING MOUNTED UNDER LED LIGHTING	CEILING	LED 27W	120/277	
X	H.E. WILLIAMS	GL-4-150/840-WH-11	1'x2' SPRING MOUNTED UNDER LED LIGHTING	CEILING	LED 27W	120/277	
Y	H.E. WILLIAMS	GL-4-150/840-WH-11	1'x2' SPRING MOUNTED UNDER LED LIGHTING	CEILING	LED 27W	120/277	
Z	H.E. WILLIAMS	GL-4-150/840-WH-11	1'x2' SPRING MOUNTED UNDER LED LIGHTING	CEILING	LED 27W	120/277	

MECHANICAL EQUIPMENT DISCONNECT SCHEDULE

TAG	DESCRIPTION	EQUIP. LOADS HP FULL LOAD VOLTS	DISCONNECT SWITCHES		PANEL	FEEDER SIZES	REMARKS
			SWITCH SIZE (A)	VOLTAGE (V)			
OT-1	COOLING TOWER	7.5HP 208	3	240	PHS NOTE 4	3#12+1#10G, 3/4" C	ROOF
CH-1	CHILLER	150A 480	3	240	PHS NOTE 3	3#12+1#10G, 3/4" C	PENHOUSE MECH ROOM
P-1	PUMP #1	7.5HP 208	3	240	PHS NOTE 1	3#12+1#10G, 3/4" C	PENHOUSE MECH ROOM
P-2	PUMP #2	7.5HP 208	3	240	PHS NOTE 1	3#12+1#10G, 3/4" C	PENHOUSE MECH ROOM
P-3	PUMP #3	7.5HP 208	3	240	PHS NOTE 2	3#12+1#10G, 3/4" C	PENHOUSE MECH ROOM
P-4	PUMP #4	7.5HP 208	3	240	PHS NOTE 1	3#12+1#10G, 3/4" C	PENHOUSE MECH ROOM
P-5	PUMP #5	7.5HP 208	3	240	PHS NOTE 3	3#12+1#10G, 3/4" C	PENHOUSE MECH ROOM
P-6	PUMP #6	7.5HP 208	3	240	PHS NOTE 3	3#12+1#10G, 3/4" C	PENHOUSE MECH ROOM
P-7	PUMP #7	7.5HP 208	3	240	PHS NOTE 2	3#12+1#10G, 3/4" C	PENHOUSE MECH ROOM
B-1	BOILER B-1	1.000A 120V	1	240	PHS NOTE 1	3#12+1#10G, 3/4" C	PENHOUSE MECH ROOM
B-2	BOILER B-2	1.000A 120V	1	240	PHS NOTE 1	3#12+1#10G, 3/4" C	PENHOUSE MECH ROOM
B-3	BOILER B-3	1.000A 120V	1	240	PHS NOTE 1	3#12+1#10G, 3/4" C	PENHOUSE MECH ROOM
B-4	BOILER B-4	1.000A 120V	1	240	PHS NOTE 1	3#12+1#10G, 3/4" C	PENHOUSE MECH ROOM
B-5	BOILER B-5	1.000A 120V	1	240	PHS NOTE 1	3#12+1#10G, 3/4" C	PENHOUSE MECH ROOM
B-6	BOILER B-6	1.000A 120V	1	240	PHS NOTE 1	3#12+1#10G, 3/4" C	PENHOUSE MECH ROOM
B-7	BOILER B-7	1.000A 120V	1	240	PHS NOTE 1	3#12+1#10G, 3/4" C	PENHOUSE MECH ROOM
REF-1	REFRIGERANT PACKAGED FAN	1/4HP 240	1	240	PHS	2#12+1#12G, 3/4" C	PENHOUSE MECH ROOM

- NOTES:
1. PROVIDE NEW RISE 40A, 240V AT EXISTING PANEL PH4. REPLACE THE EXISTING ONE.
  2. PROVIDE NEW RISE 40A, 240V AT EXISTING PANEL PH5. REPLACE THE EXISTING ONE.
  3. PROVIDE NEW RISE 50A, 240V AT EXISTING PANEL PH6. REPLACE THE EXISTING ONE.
  4. FEEDER SIZE BASED ON AVERAGE AMBIENT OF 94.5°F PER ASHRAE HANDBOOK FUNDAMENTALS, 25°F TEMPERATURE RAISE PER NEC 2011 TABLE 310.15(B)(3)(G) AND AMBIENT TEMPERATURE CORRECTION OF 119.5°F IN NEC 2011 TABLE 310.15(B)(2)(D).

(ACCOMPLISHED UNDER PREVIOUS CONTRACT - NOT IN SCOPE)

LOAD ANALYSIS

NAME	VOLTS	POWER (KW)	CONNECTED CIRCUIT	NAME	VOLTS	POWER (KW)	CONNECTED CIRCUIT	NEW WORK LOADS	
								LOADS	LOADS
CHILLER	480/3	11.1 (2.5HP)	MAIN SWITCHBOARD VIA 400VA 208-480/277V FEEDER	CHILLER	480/3	11.1 (2.5HP)	400VA 208-480/277V FEEDER	11.1 (2.5HP)	400VA 208-480/277V FEEDER
COOLING TOWER	208/3	8.7 (2.5HP)	PHS-2	COOLING TOWER	208/3	8.7 (2.5HP)	PHS-2	8.7 (2.5HP)	PHS-2
PUMP#1	208/3	8.7 (2.5HP)	PHS-4	PUMP#1	208/3	8.7 (2.5HP)	PHS-4	8.7 (2.5HP)	PHS-4
PUMP#2	208/3	8.7 (2.5HP)	PHS-10	PUMP#2	208/3	8.7 (2.5HP)	PHS-10	8.7 (2.5HP)	PHS-10
PUMP#3	208/3	8.7 (2.5HP)	PHS-3	PUMP#3	208/3	8.7 (2.5HP)	PHS-3	8.7 (2.5HP)	PHS-3
PUMP#4	208/3	8.7 (2.5HP)	PHS-4	PUMP#4	208/3	8.7 (2.5HP)	PHS-4	8.7 (2.5HP)	PHS-4
PUMP#5	208/3	8.7 (2.5HP)	PHS-8	PUMP#5	208/3	8.7 (2.5HP)	PHS-8	8.7 (2.5HP)	PHS-8
PUMP#6	208/3	8.7 (2.5HP)	PHS-5	PUMP#6	208/3	8.7 (2.5HP)	PHS-5	8.7 (2.5HP)	PHS-5
PUMP#7	208/3	8.7 (2.5HP)	PHS-3	PUMP#7	208/3	8.7 (2.5HP)	PHS-3	8.7 (2.5HP)	PHS-3
BOILER BROWER	208/3	1.8 (3HP)	PHS-4	BOILER BROWER	208/3	1.8 (3HP)	PHS-4	1.8 (3HP)	PHS-4
AR COMPRESSOR	208/3	3.0 (3HP)	PHS-12	AR COMPRESSOR	208/3	3.0 (3HP)	PHS-12	3.0 (3HP)	PHS-12
AHU-4	208/3	2.7 (2HP)	MAIN SIBD COMPARTMENT #4	AHU-4	208/3	2.7 (2HP)	MAIN SIBD COMPARTMENT #4	2.7 (2HP)	MAIN SIBD COMPARTMENT #4
AHU-5	208/3	6.3 (3HP)	MAIN SIBD COMPARTMENT #4	AHU-5	208/3	6.3 (3HP)	MAIN SIBD COMPARTMENT #4	6.3 (3HP)	MAIN SIBD COMPARTMENT #4
AHU-6	208/3	8.3 (3HP)	MAIN SIBD COMPARTMENT #4	AHU-6	208/3	8.3 (3HP)	MAIN SIBD COMPARTMENT #4	8.3 (3HP)	MAIN SIBD COMPARTMENT #4
AHU-7	208/3	10.0 (3HP)	MAIN SIBD COMPARTMENT #4	AHU-7	208/3	10.0 (3HP)	MAIN SIBD COMPARTMENT #4	10.0 (3HP)	MAIN SIBD COMPARTMENT #4

PHASING NOTES

1. PROVIDE CHILLER AND ASSOCIATED PUMPS AND DEMONITION.
2. PROVIDE CHILLER INDICATED PHASES, CONTROLS, VENTILATION, LIGHTING AND ASSOCIATED DEMONITION. EXISTING COOLING TOWER WILL REMAIN AND BE CONNECTED TO FEEDER.

PROJECT: ARlington COUNTY GOVERNMENT  
1400 N. LIME STREET, SUITE 403  
ARLINGTON, VA 22201

CLIENT: ARlington COUNTY GOVERNMENT

ADDRESS: 1400 N. LIME STREET  
ARLINGTON, VA 22201

DATE: 02/15/18

CONTRACTOR: J.E. O'SHEA

CONTRACT NUMBER: 17-13-118

DATE: 02/15/18

KEY PLAN

GRAPHIC SCALE

USE GRAPHIC SCALE FOR REDUCED PRINTS

REVISIONS

REV	DATE	DESCRIPTION
01	02/15/18	ISSUE FOR PERMIT SET
02	05/24/17	REDUCED SCOPE
03	07/13/17	BD-SET
04	02/23/18	PERMIT SET

DATE: 02/15/18

CHECKED BY: [Signature]

TITLE: MECHANICAL EQUIPMENT AND LOAD SCHEDULES AND LOAD ANALYSIS

NUMBER: E 6 03

SHEET: 1 OF 1



OWNER

THE COUNTY BOARD OF  
ARLINGTON COUNTY  
c/o CASSIDY TURLEY COMMERCIAL  
REAL ESTATE SERVICES, INC.  
2300 WILSON BLVD., SUITE 210  
ARLINGTON, VA 22201

CONSULTANT

**SK&A**

Smislova, Kehnemui & Associates, P.A.  
CONSULTING STRUCTURAL ENGINEERS  
12505 PARK POTOMAC AVENUE  
SUITE 200  
POTOMAC, MARYLAND 20854  
TEL: (301) 881-1441  
FAX: (301) 881-8664

2020 N. 14TH STREET  
GARAGE REPAIRS  
ARLINGTON, VA 22201

REVISIONS

ISSUED FOR REVIEW	12-16-15
ISSUED FOR REVIEW	01-29-16
ISSUED FOR REVIEW	02-11-16

SEAL

DRAWN BY: BFS  
CHECKED BY: CLG  
JOB NO: 1-13640-02  
DATE: 12-16-15

G  
LEVEL

S1.03



**G LEVEL**  
SCALE: 1/8"=1'-0"

NOTES:

- REPAIR QUANTITIES ON THIS SHEET ARE PER THE ORIGINAL SK&A SURVEY PERFORMED IN 2013. CONTRACTOR SHALL ASSUME THAT QUANTITIES SHOWN ARE A MINIMUM AS THEY DO NOT ACCOUNT FOR PATCH GROWTH.
- CONTRACTOR SHALL SOUND ALL CONCRETE SURFACES TO LOCATE REPAIRS. ALL REPAIRS SHALL THEN BE VERIFIED BY THE ENGINEER PRIOR TO PROCEEDING WITH THE WORK.

KEY	
	- TOP SURFACE DELAMINATION (X.X IN SQUARE FEET)
	- SLAB SOFFIT DELAMINATION (X.X IN SQUARE FEET)
	- EXISTING DRAIN TO BE REPLACED

ATTACHMENT A





**(P) PARK**

**TEGG**  
ELECTRICAL

**ON**

**Mona**  
ELECTRICAL SERVICES

**Mona**  
ELECTRICAL SERVICES

**Mona**  
ELECTRICAL SERVICES

**Mona**  
ELECTRICAL SERVICES

**CHILLER**

**OFF**

**DANGER  
THIS CIRCUIT ALIVE**

**MAIN  
3000 AMP  
120, 208**

2  
3  
L1-2 FLOOR PANEL  
L3-3 FLOOR PANEL  
L4-4 FLOOR PANEL

 **PARK**  
DETROIT

**ON**  
PUSH BUTTON  
TO UNLOCK HANDLE  
TO OFF POSITION  
→

1

**RULAND**  
ORGANIZATION  
CAL CONSTRUCTION



