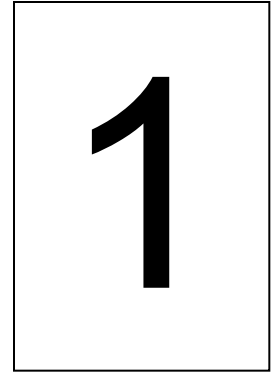


TOWN OF WATERTOWN

**Contract Number: 614.8
Chiller Replacement
Watertown Town Hall
149 Main Street,
Watertown, MA 02472**

ADDENDUM NO. 1
AUGUST 11, 2021



The attention of bidders submitting proposals for the subject project at the Watertown Town Hall, at 149 Main Street Watertown, MA, is called to the following addendum to the contract. The items set forth herein, whether of omission, addition, substitution or clarification are all to be included in and form a part of the proposal submitted.

THE NUMBER OF THIS ADDENDUM (NO. 1) MUST BE ENTERED IN THE APPROPRIATE SPACE B ON THE CONTRACT FORM ENTITLED "FORM OF GENERAL BID" AND IN SPACE B OF THE "FORM FOR SUB-BID".

A. SPECIFICATION CHANGES:

1. **Specification Section 00 7200 General Conditions:**

- 1.1. REPLACE the following in subparagraph 1.07 Time Allowance "The work shall commence on the date specified in a written order from the Town of Watertown as the date for such beginning, and shall be completed on or before 84 calendar days from the date of said order" with "The contract time shall commence on an agreed upon date, either the Notice to Proceed or the date of the preconstruction meeting, whichever is earlier (anticipated to be early to mid-October 2021) and shall be completed on or before 194 calendar days from the date of said order"

2. **Specification Section 01 1000 Summary:**

- 2.1. ADD the following to subparagraph 1.9A Coordination with Occupants:
- 4. The contractor shall maintain operation of the existing heating system through peak heating months (defined as mid-October through mid-March) whilst the existing chiller system is being removed and the new system is being installed.
 - 5. The general contractor shall utilize overtime and weekend working hours to schedule any temporary disconnection, drainage or installation of temporary valves etc. required to isolate the existing chiller system from the heating system.
 - 5A. For temporary heating during this time, refer to specification section 23 0000 HVAC subparagraph 2.21 for Temporary Heating by HVAC Subcontractor.

6. It is anticipated that the new chiller system will be operational (ie: Substantial Completion) by the end of March 2022 or early April 2022 in time for the changeover to cooling within the building. Refer to subparagraph 1.13 Times for Completion of this Summary Section for additional information.
- 2.2. Replace the following in subparagraph 1.13 Times for Completion “Liquidated Damages shall be assessed in the amount of \$500 per day” with “Liquidated Damages shall be assessed in the amount of \$1000 per day”
3. **Specification Section 23 0000 HVAC:**
 - 3.1. OMIT the following from subparagraph 2.11D sub item 1 “NOTE: All new piping within the mechanical room shall be provided with color coded PVC jackets, color as selected by Engineer/Architect.”
 - 3.2. OMIT the following from subparagraph 2.16C sub item 2 “Two station corrosion coupon rack.”
 - 3.3. OMIT subparagraph 2.17 “GLYCOL – 30% PROPYLENE GLYCOL SOLUTION”
 - 3.4. ADD the following subparagraph 2.21 for Temporary Heating:
 - 2.21 TEMPORARY CONSTRUCTION AND SUPPORT FACILITIES
 - A. Scope: Temporary construction and support facilities include, without limitation:
 1. Temporary heat and cooling (if required).
 - B. Temporary Heat and Ventilation: When building HVAC systems are not adequate for providing HVAC required to maintain adequate environmental conditions to facilitate progress of Work, provide temporary heat and ventilation as required. –
 1. Ventilate enclosed areas for curing of installed materials, to disperse humidity, and to prevent accumulations of dust, fumes, vapors, and gases.
 2. Portable heaters shall be standard approved units with controls.
 3. Pay costs of installation, maintenance, operation, removal, and fuel consumed.
 - C. Space temperature requirement
 1. Space heating temperature – 72 degrees
 2. Space cooling temperature – 75 degrees
- B. **DRAWING CHANGES:**
 1. **Architectural Sheet A102**
 - 1.1. ADD the following note to Drawing 1 Third Floor Plan “Provide core in concrete floors and at the existing roof for new electrical conduit to crawlspace see electrical drawings (26 0000) Refer to detail 8 A/500 for roof penetration detail (07 5323)”

2. **Architectural Sheet A500**

- 2.1. REPLACE “Provide firestopping at penetrations typ. (07 8413)” with “Provide firestopping at new penetrations regardless of existing fire rating typ. (07 8413)”

3. **HVAC Sheet SKH-01**

- 3.1. ADD the attached SKH-01 Chemical Shot Feeder sketch dated 08/09/21.

4. **HVAC Sheet H-0.2**

- 4.1. REPLACE “Bell & Gossett series E-1510” with “Bell & Gossett series E-1510-2.5AC.” in the Pump Schedule.

5. **Electrical Sheet E1.0:**

- 5.1. REPLACE Electrical Sheet E1.0 with the attached Electrical Sheet E1.0 Revision 1 dated 8/6/21.

6. **Electrical Sheet E1.1:**

- 6.1. REPLACE Electrical Sheet E1.1 with the attached Electrical Sheet E1.1 Revision 1 dated 8/6/21.

C. BIDDER QUESTIONS:

Q1: *Will off-hours demolition and off-hours general work be allowed?*

A1: Yes, off-hours demolition and general work will be allowed with minimum 72 hours' notice and pre-approval from the Town. The town will cover the cost for a Town custodian to be on-site during the off-hours work. The GC will be responsible for any of its overtime labor costs.

Q2: *What is the approximate height from the roof to the basement?*

A2: The approximate height from the roof to the basement crawlspace is 60' as noted on the MEP drawings.

Q3: *Is a building permit required and are the fees waived?*

A3: Yes, a building permit is required for the project. All permit fees payable to the Town shall be waived. (See section 01 1000 Summary subparagraph 1.15 Building Permit)

Q4: *On plan H-0.2 pump schedule it is calling for a Bell & Gossett E-1510 series pump what are the back- up numbers for the pump? There are many 1510 pumps we need the correct model number for the pump*

A4: Provide Bell & Gossett series E-1510 – 2.5AC.

Q5: *In the HVAC spec paragraph 2.17 It is calling for Glycol to be added to the system. If we are to add glycol we need to know what the system holds in order to figure the correct amount of glycol to add to the system. A question was asked when we met after the walkthrough whether there was glycol in the system now. The answer was that there was no glycol in the system. So are we to add glycol to the system?*

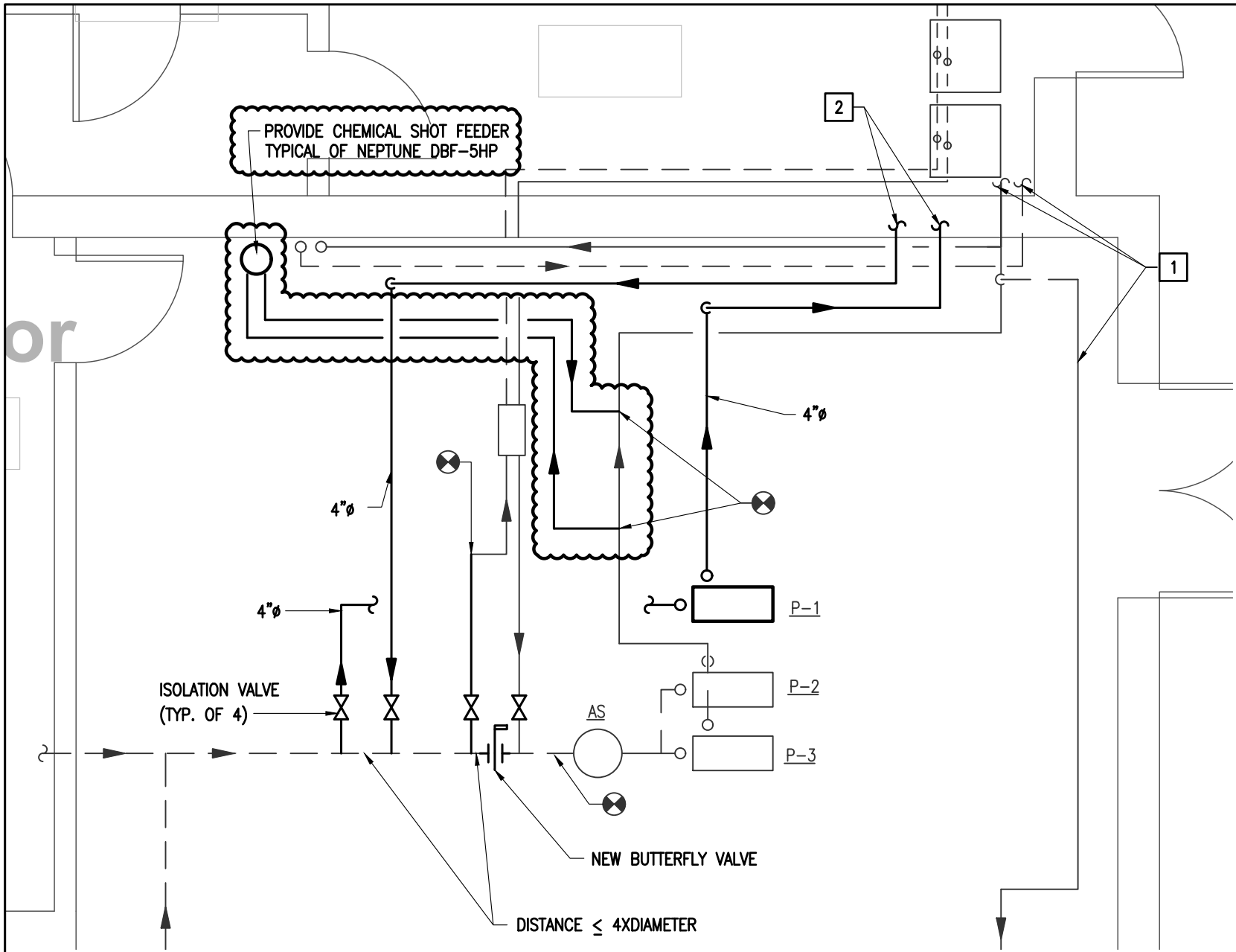
A5: There is currently no glycol in the existing system. Glycol shall not be added to the new system. See specification changes in this addenda (above) for the omission of this work.

- Q6: *In the spec paragraph 2.16 Water Treatment it calls for a chemical shot feeder and a two (2) station corrosion coupon rack. There is nothing on the plans that shows how and where to install this equipment. Are we to provide this equipment? If so, please send a sketch on where to install it.*
- A6: See attached enclosed SKH-01 Chemical Shot Feeder for integration to the chiller system. The coupon rack shall be omitted from the scope of work.
- Q7: *In the spec paragraph 2.11 Insulation there is a note that states all new piping within the mechanical room shall be provided with color coded PVC jackets, color as selected by Eng/Arch. Are we to provide the color-coded PVC jackets?*
- A7: Color coded PVC jacketing shall be omitted from the scope of work.
- Q8: *In the spec it calls for piping 2 ½" and larger to be schedule 40 seamless steel pipe and pipe 2" and smaller to be copper pipe type L. On plan H-0.2 pipe schedule 3" and larger to be welded or mechanical joints. With where we have to install the new chilled water piping, I would think welding would not work well within the building. Can Type L cooper pipe be used with pro-press fittings in the crawl space and going up thru the building? If black pipe is used in the crawl space and going up thru the building can mega press fittings be used with the black pipe?*
- A8: Hydronic piping 2-1/2" or smaller shall be type L copper. Piping 3" and larger shall be schedule 40 seamless black steel. Mechanical joints are acceptable.
- Q9: *Who is the current Automatic Temperature Controls contractor that currently services the building?*
- A9: Johnson Controls provides service for the Metasys Building Management System and for most HVAC work.
- Q10: *Will any draining of the existing hot water/chiller water system be required for the project?*
- A10: The existing hot water / chill water system shall be drained and refilled by the HVAC contractor as required to perform all work and pipe connections.

Enclosed attachments:

HVAC Sheet SKH-01 Chemical Shot Feeder sketch dated 08/09/21
Electrical Sheet E1.0 Revision 1 dated 8/6/21
Electrical Sheet E1.0 Revision 1 dated 8/6/21.

END OF ADDENDUM #1



H.V.A.C. - CHEMICAL FEEDER SKETCH

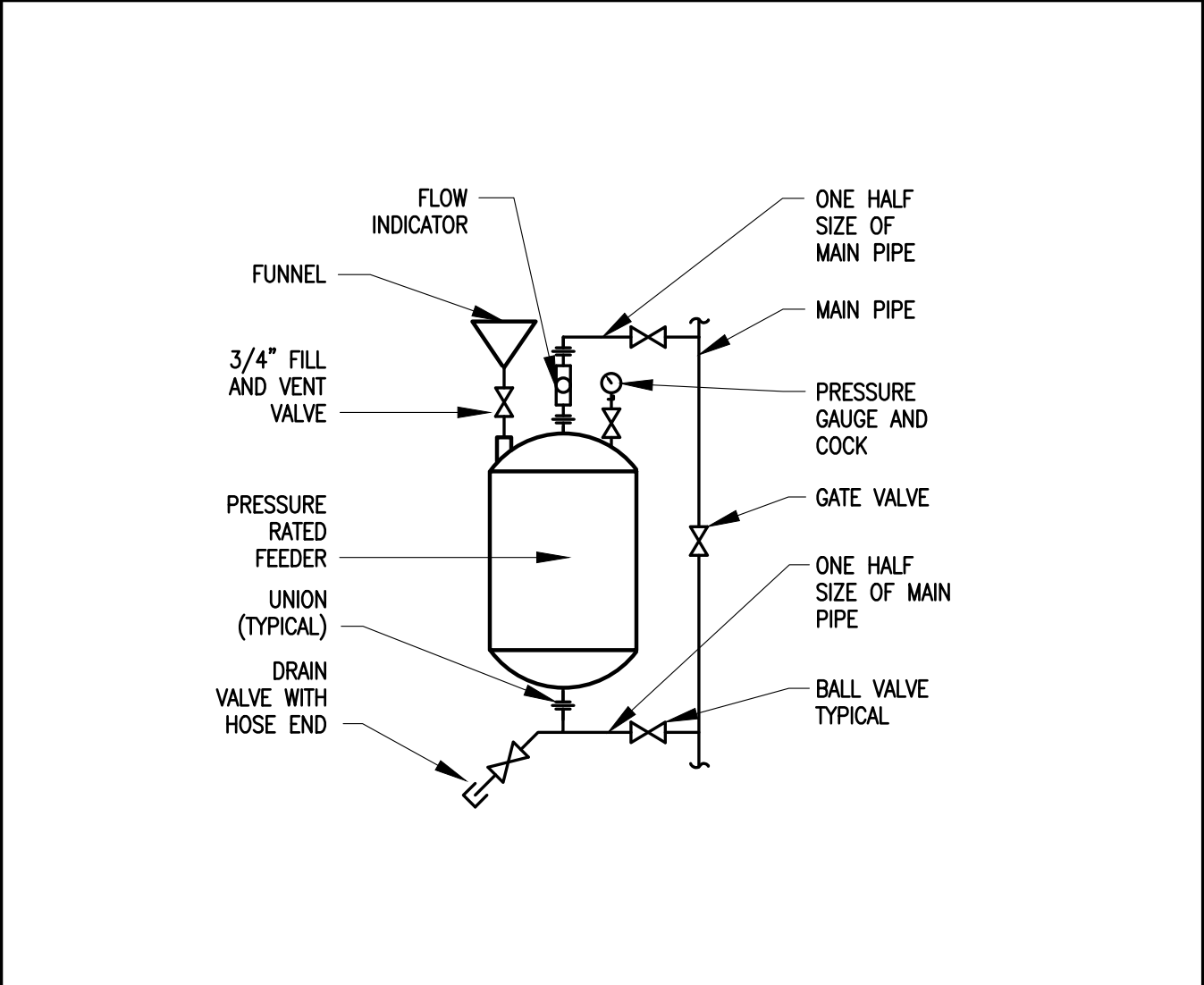
1/4" = 1'-0"

Project: WATERTOWN TOWN HALL, MA		Sketch No.: SKH-01	
Title: CHEMICAL SHOT FEEDER SKETCH			
Date: 08/09/21	Scale: As Noted	Project No.: 17055	
Drawn By: CW	Rev. No.: -	Dwg. Ref.: -	

BLW Engineers, Inc.
 311 Great Road, Post Office Box 1551
 Littleton, Massachusetts 01460
 T: 978-486-4301 F: 978-428-0067
 www.blwengineers.com



MECHANICAL * ELECTRICAL * PLUMBING * FIRE PROTECTION



SHOT FEEDER DETAIL (N.T.S)

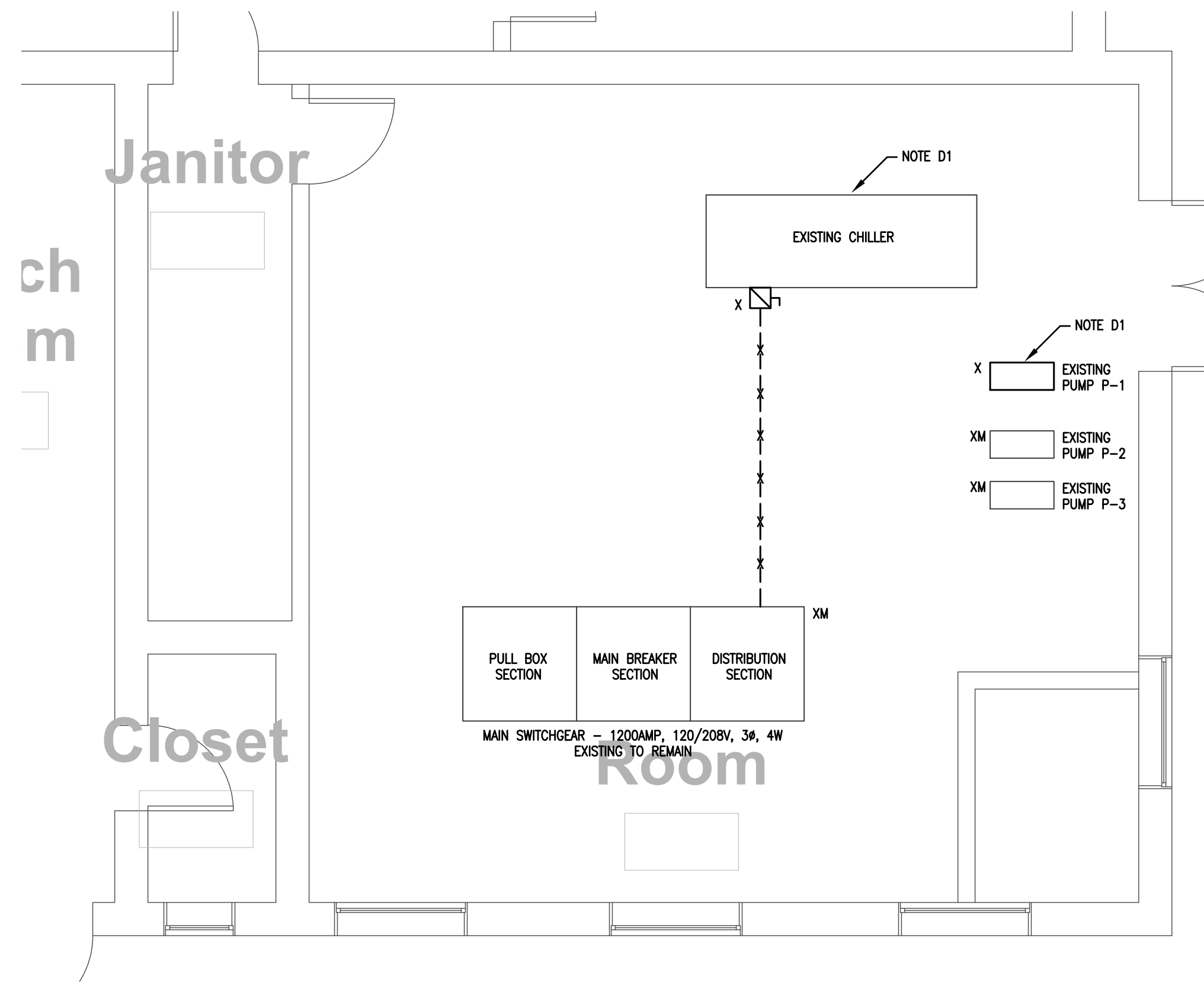
Sketch No.:
SKH-01

Project: WATERTOWN TOWN HALL, MA	
Title: DETAIL	Project No.: 17055
Date: 08/09/21	Scale: As Noted
Drawn By: CW	Rev. No.: -
	Dwg. Ref.: -

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IF THIS SHEET IS NOT 24 X 36 IT IS A REDUCED SCALE PRINT - SCALE ACCORDINGLY

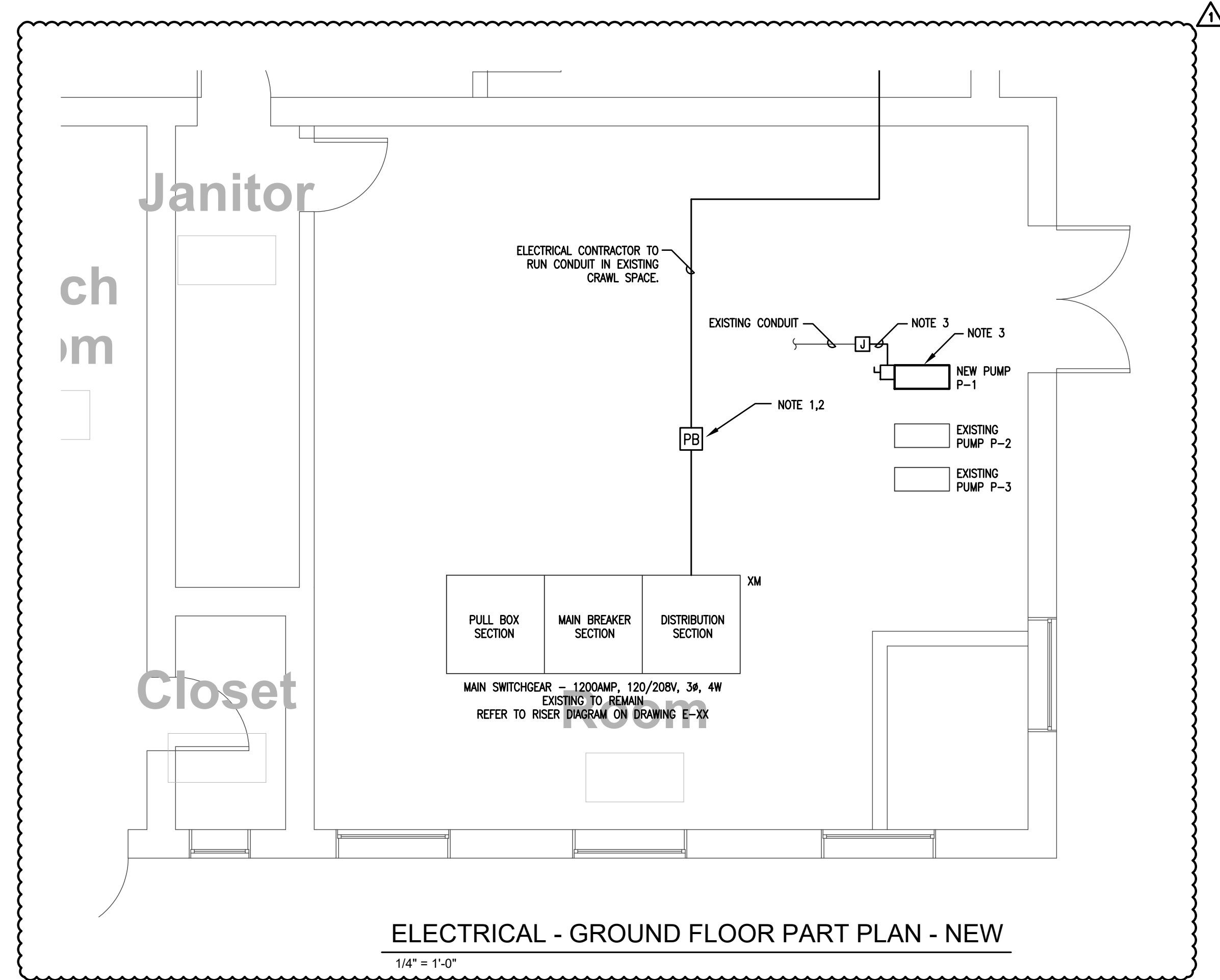


ELECTRICAL - GROUND FLOOR PART PLAN - DEMO

1/4" = 1'-0"

NOTES:

- D1. DISCONNECT EXISTING BRANCH CIRCUITRY AND REMOVE ALL ASSOCIATED ELECTRICAL EQUIPMENT.

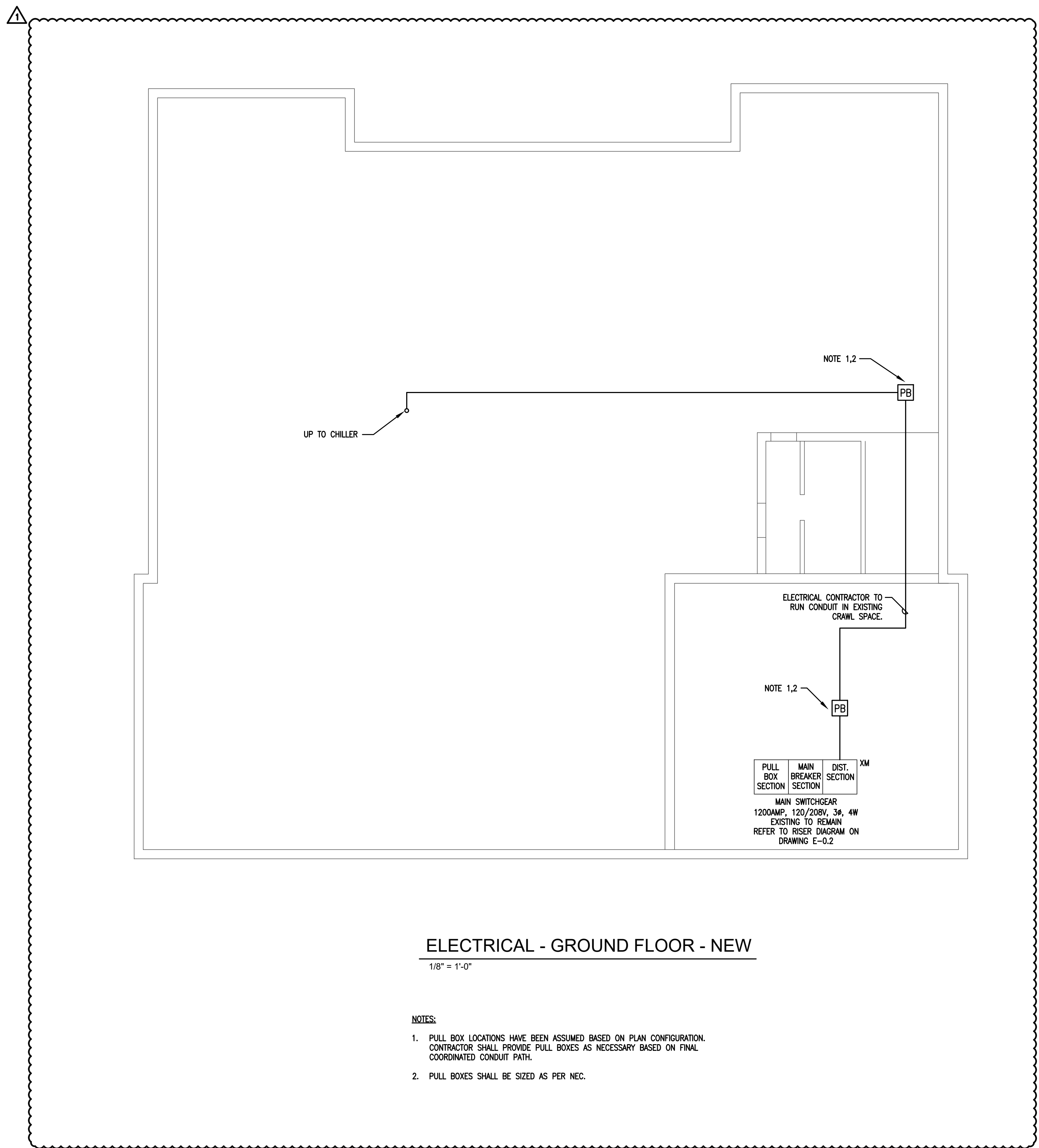


ELECTRICAL - GROUND FLOOR PART PLAN - NEW

1/4" = 1'-0"

NOTES:

- 1. PULL BOX LOCATIONS HAVE BEEN ASSUMED BASED ON PLAN CONFIGURATION. CONTRACTOR SHALL PROVIDE PULL BOXES AS NECESSARY BASED ON FINAL COORDINATED CONDUIT PATH.
- 2. PULL BOXES SHALL BE SIZED AS PER NEC.
- 3. CONTRACTOR SHALL INTERCEPT EXISTING CIRCUIT, EXTEND ASSOCIATED CONDUIT AND WIRE AND CONNECT TO NEW PUMP.

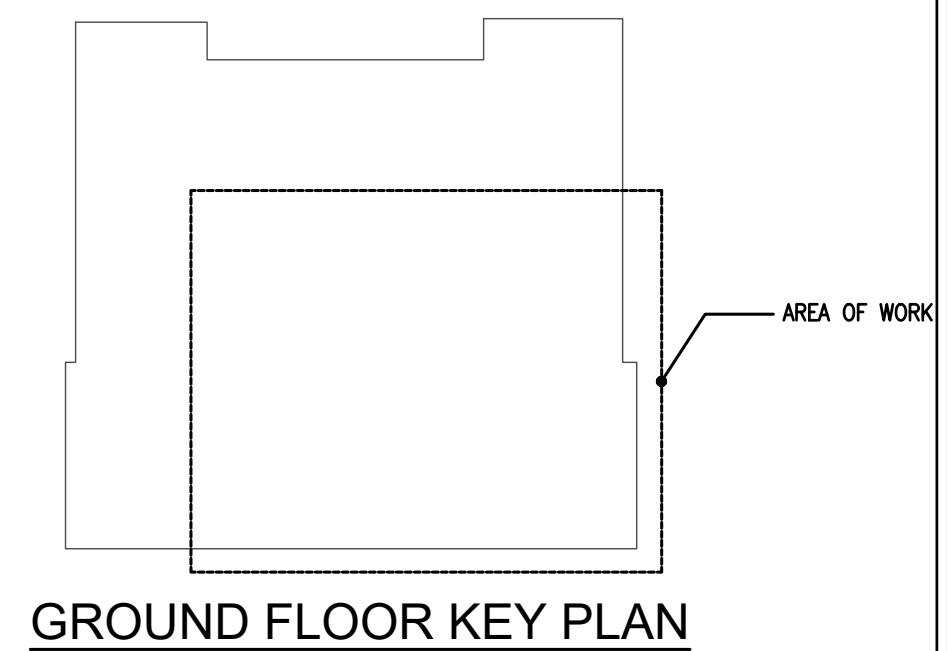


ELECTRICAL - GROUND FLOOR - NEW

1/8" = 1'-0"

NOTES:

- 1. PULL BOX LOCATIONS HAVE BEEN ASSUMED BASED ON PLAN CONFIGURATION. CONTRACTOR SHALL PROVIDE PULL BOXES AS NECESSARY BASED ON FINAL COORDINATED CONDUIT PATH.
- 2. PULL BOXES SHALL BE SIZED AS PER NEC.



Begin Here. Finish Well.

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Chiller Replacement
149 Main Street
Watertown, MA, 02472

Proj Date: 6/14/2021 9:12:11 AM

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No.	Date	Description
1	8/6/21	Addendum #1

Project: 614.8
Drawn by: JSG
Check by: MG
Date: 07/28/21
Scale: As indicated

**ELECTRICAL
GROUND FLOOR**

E-1.0

