



Purchasing Division
Finance Department
Room 120
411 West First Street
Duluth, Minnesota 55802

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Addendum 2
Solicitation 22-99418
City Hall MEP Renewal Project

This addendum serves to notify all bidders of the following changes to the solicitation documents:

1. The **bid deadline** for this project has been **extended** to 2:00pm central time on Thursday, June 9, 2022.
2. Please see additional information in the attached documents.

Please acknowledge receipt of this Addendum by checking the acknowledgment box within the www.bidexpress.com solicitation. Posted: **5/24/22**

ADDENDUM



Date: May 24, 2022
Project: City of Duluth City Hall MEP Renewal
KFI Project Number: 21-0486.00
Addendum Number: 2

THIS ADDENDUM IS A CONTRACT DOCUMENT AND MAY APPLY TO ANY OR ALL CONTRACTS AND SUBCONTRACTS UNLESS OTHERWISE SPECIFIED HEREIN OR SHOWN ON THE ATTACHED DRAWINGS (IF ANY). ALL WORK REQUIRED BY THIS ADDENDUM SHALL BE IN COMPLETE ACCORD WITH THE CONTRACT DOCUMENTS AND SUBSEQUENT ADDENDA THERETO. THE ITEMS LISTED IN THIS ADDENDUM ARE NOT IN ANY ORDER IN REGARD TO THE DRAWINGS OR THE SPECIFICATIONS. ALL CONTRACTORS ARE CAUTIONED TO EXAMINE EACH AND EVERY ITEM OF THIS ADDENDUM.

THE FOLLOWING CHANGES OR CLARIFICATIONS TO THE PLANS & SPECIFICATIONS SHALL BE INCLUDED AS PART OF THE CONTRACT DOCUMENT

RESPONSES TO REQUESTS:

1. There will be an allowance carried by city to contract an abatement contractor to remove any hazardous materials.
2. Furniture layout sheets that are available, are included in this addendum. Removal and replacement/repair of ceilings and furniture will be by the General Contractor.
3. Elevator nameplate weight capacity is 3,000 lbs.
4. City will provide elevator protection (walls and floor) throughout the duration of the project.
5. There are 10 Red-plaque CJS areas for the building, the map was included in Addendum 1.
6. Estimated start date is September 5, 2022.
7. Estimated substantial completion date is October 25, 2024

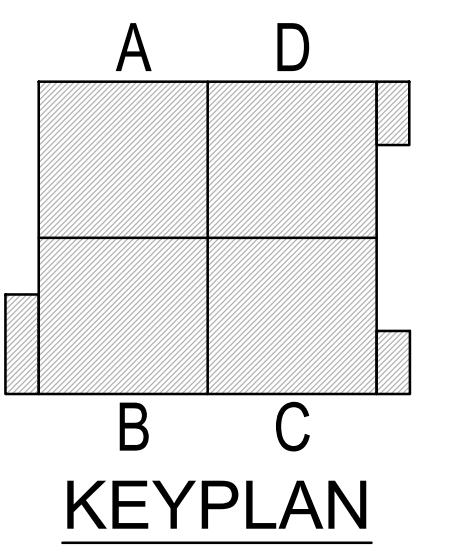
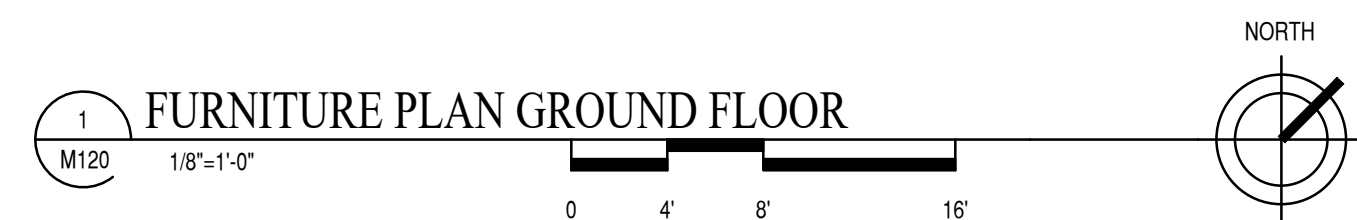
SPECIFICATION CHANGES:

1. 23 57 00 Heat Exchanger for HVAC, 2.01.A. Add the following approved manufacturer: Taco Shell and Tube

PLAN SHEET CHANGES:

1. Sheet E320 Ground Floor - Power - See attached for modifications
2. Sheet E502 Motor Schedule – See attached modifications
3. Sheet E505 Panelboard Schedules – See attached modifications
4. Sheet M120 Mechanical Floor Demo – Additional ductwork demo in Parks and Rec Department

END OF ADDENDUM



No:	Date:	By:	Revision:

KFI
ENGINEERS
670 County Road B West
St. Paul, Minnesota 55113
Tel: (651) 771-0880 Fax: (651) 771-0878
Email: kfi@kfi-eng.com

Project Title: CITY OF DULUTH
CITY HALL MEP RENEWAL DESIGN

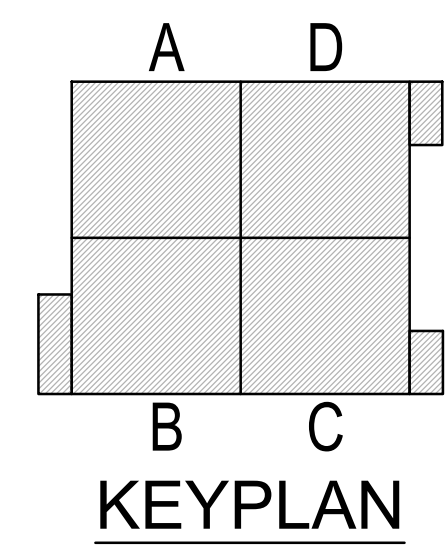
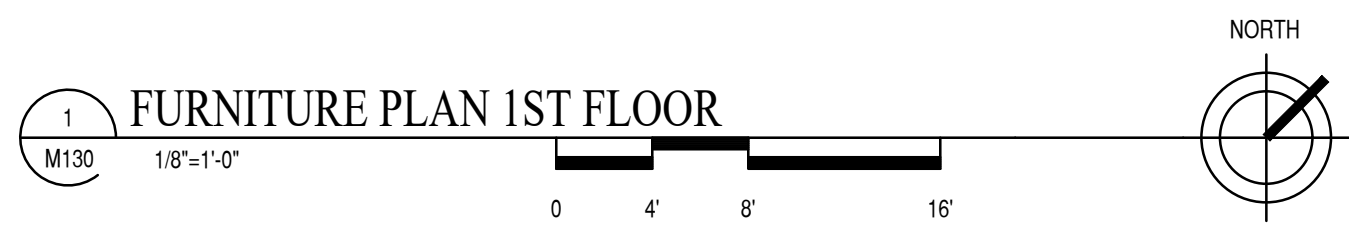
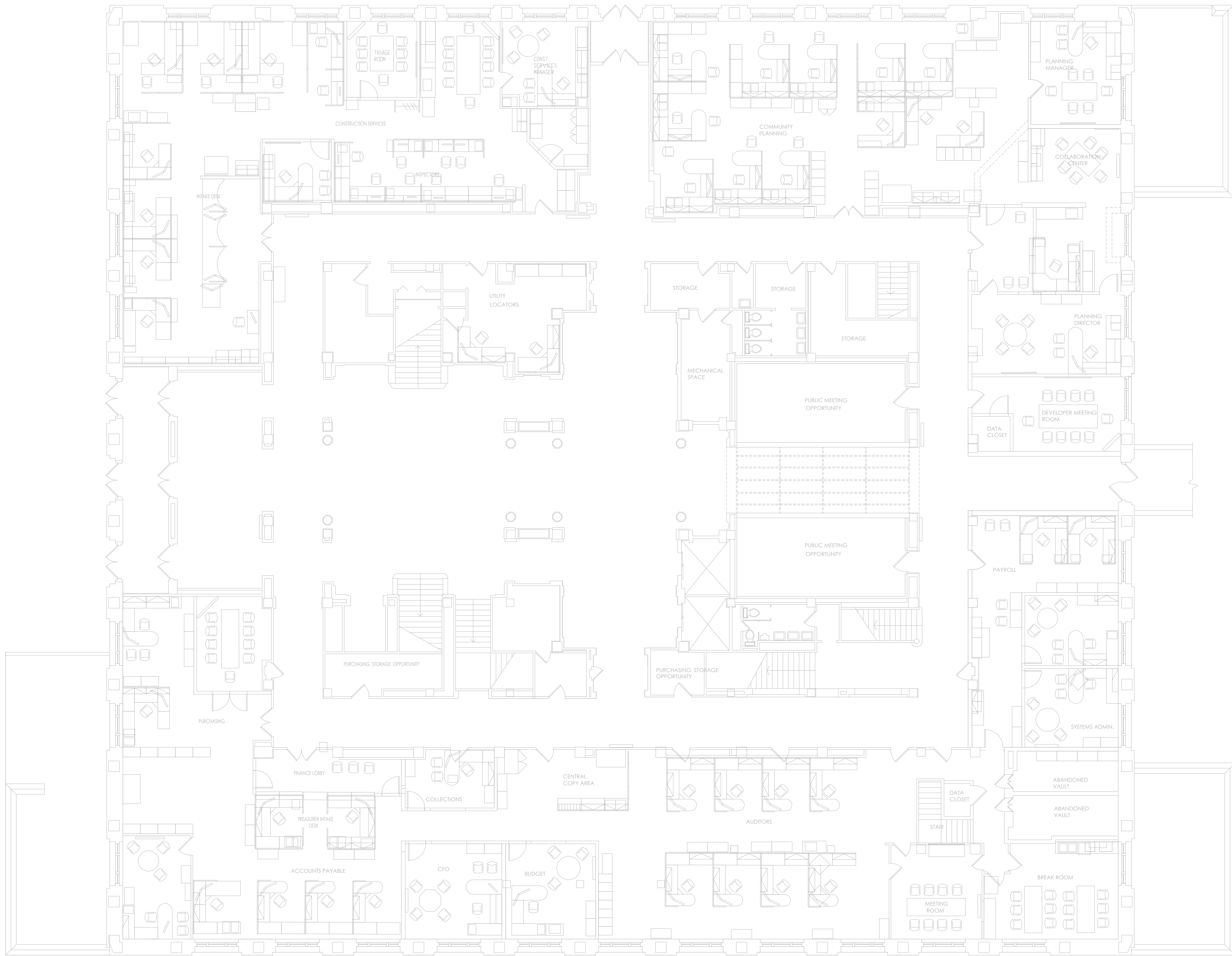
411 WEST 1ST STREET
DULUTH, MN 55802

Sheet Title:

FURNITURE PLAN
GROUND FLOOR

Date:	05-03-2022
Drawn By:	JCM
Checked By:	MDP
Project No:	21-0486
DWG Scale:	AS NOTED
Sheet Size:	30x42

Revision Number:	0
Sheet Number:	



No.	Date:	By:	Revision:

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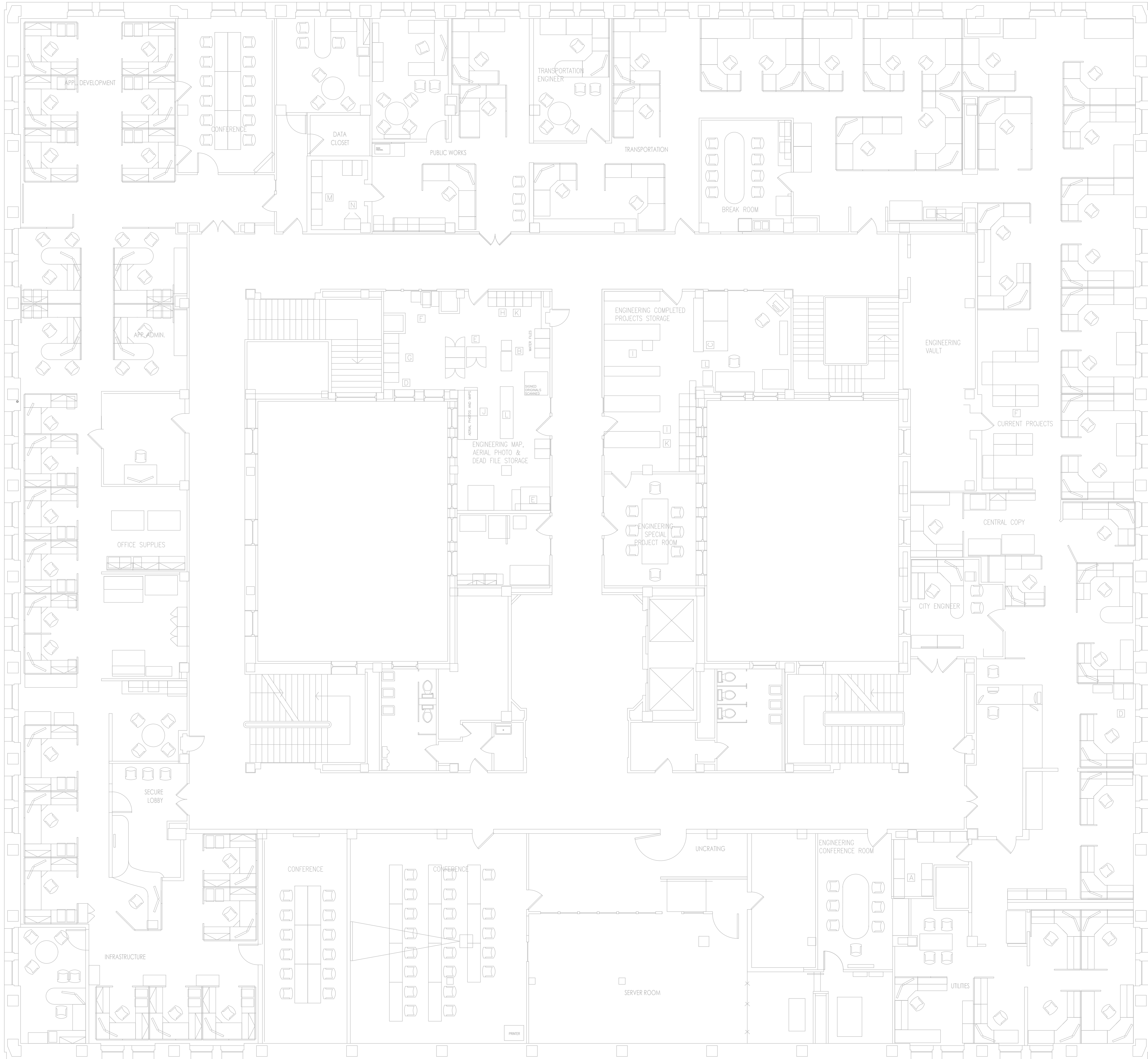
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CITY OF DULUTH
CITY HALL MEP RENEWAL DESIGN

411 WEST 1ST STREET
DULUTH, MN 55802

Sheet Title:
FURNITURE PLAN
1ST FLOOR

Date: 05-03-2022
Drawn By: JCM
Checked By: MDP
Project No: 21-0486
DWG Scale: AS NOTED
Sheet Size: 30x42

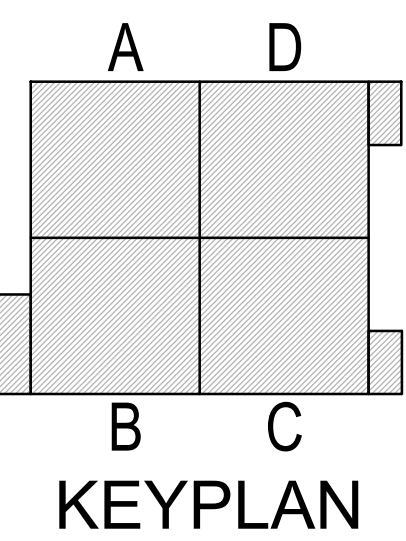
Revision Number:
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Sheet Number:



1 FURNITURE PLAN 2ND FLOOR
M140 1/8"=1'-0"

0 4' 8' 16'

NORTH



No.	Date	By	Revision

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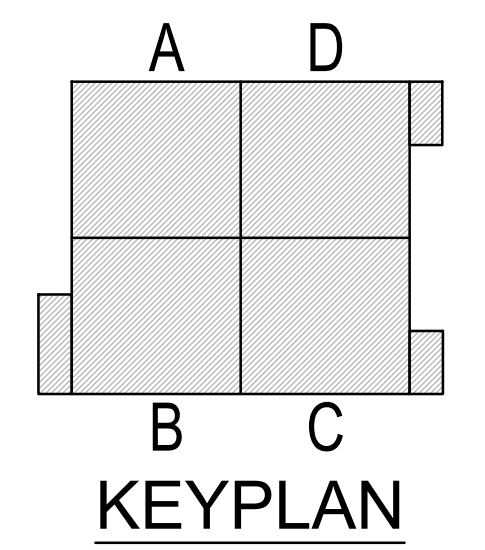
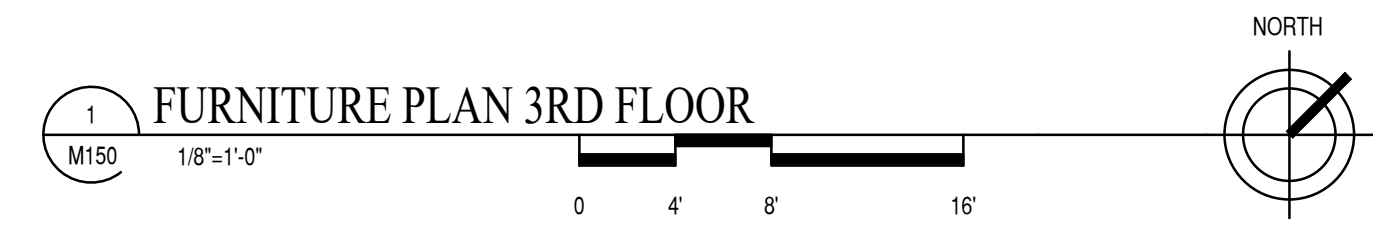
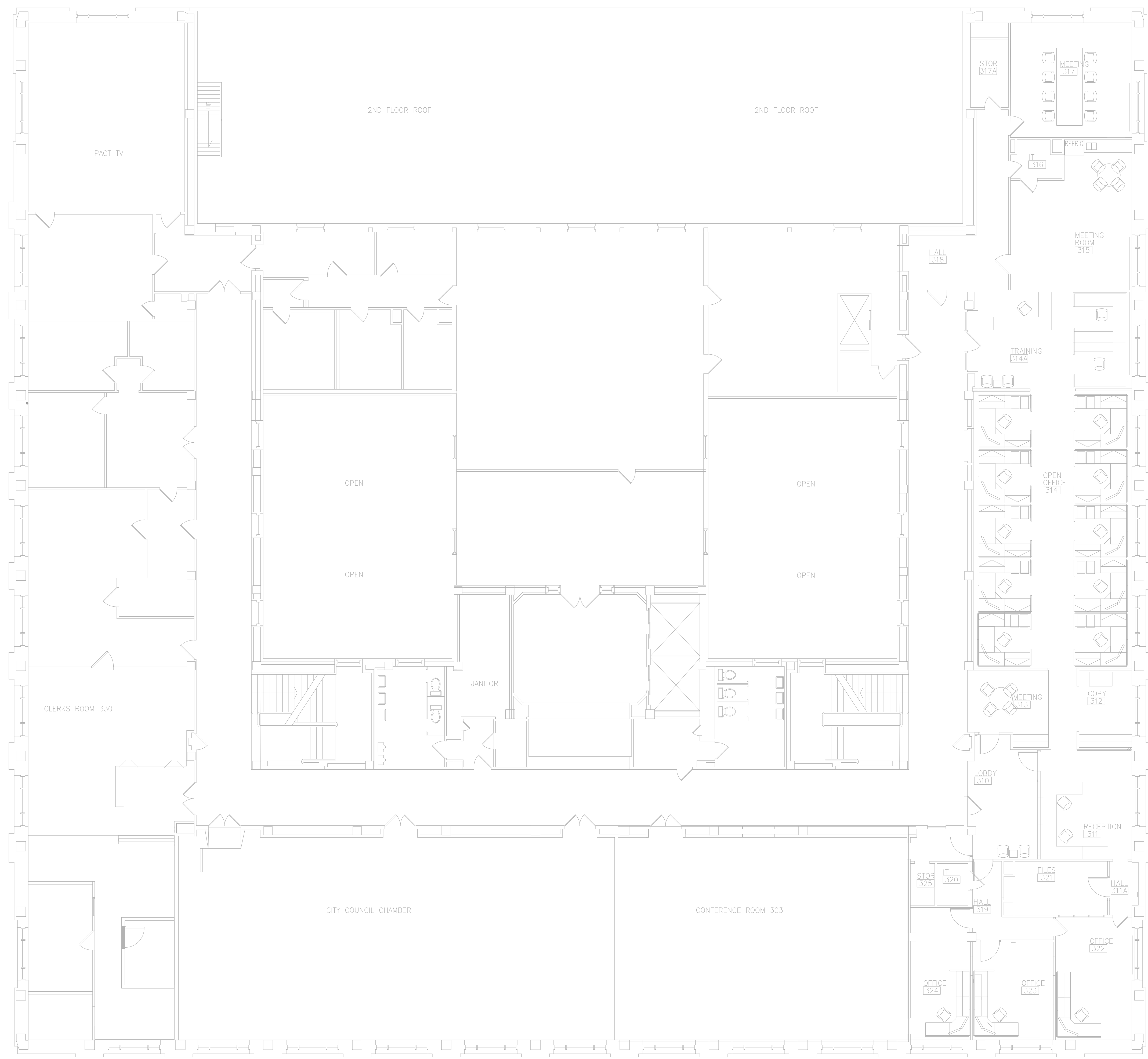
Project Title: CITY OF DULUTH
CITY HALL MEP RENEWAL DESIGN

411 WEST 1ST STREET
DULUTH, MN 55802

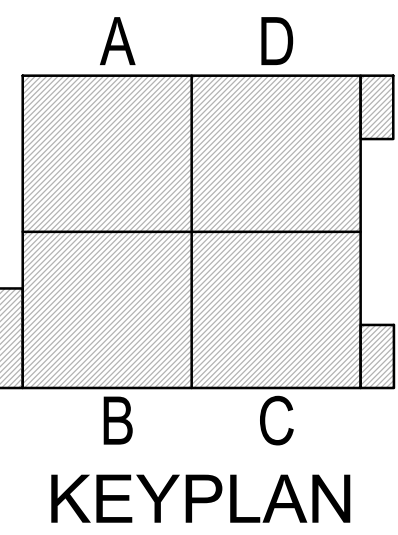
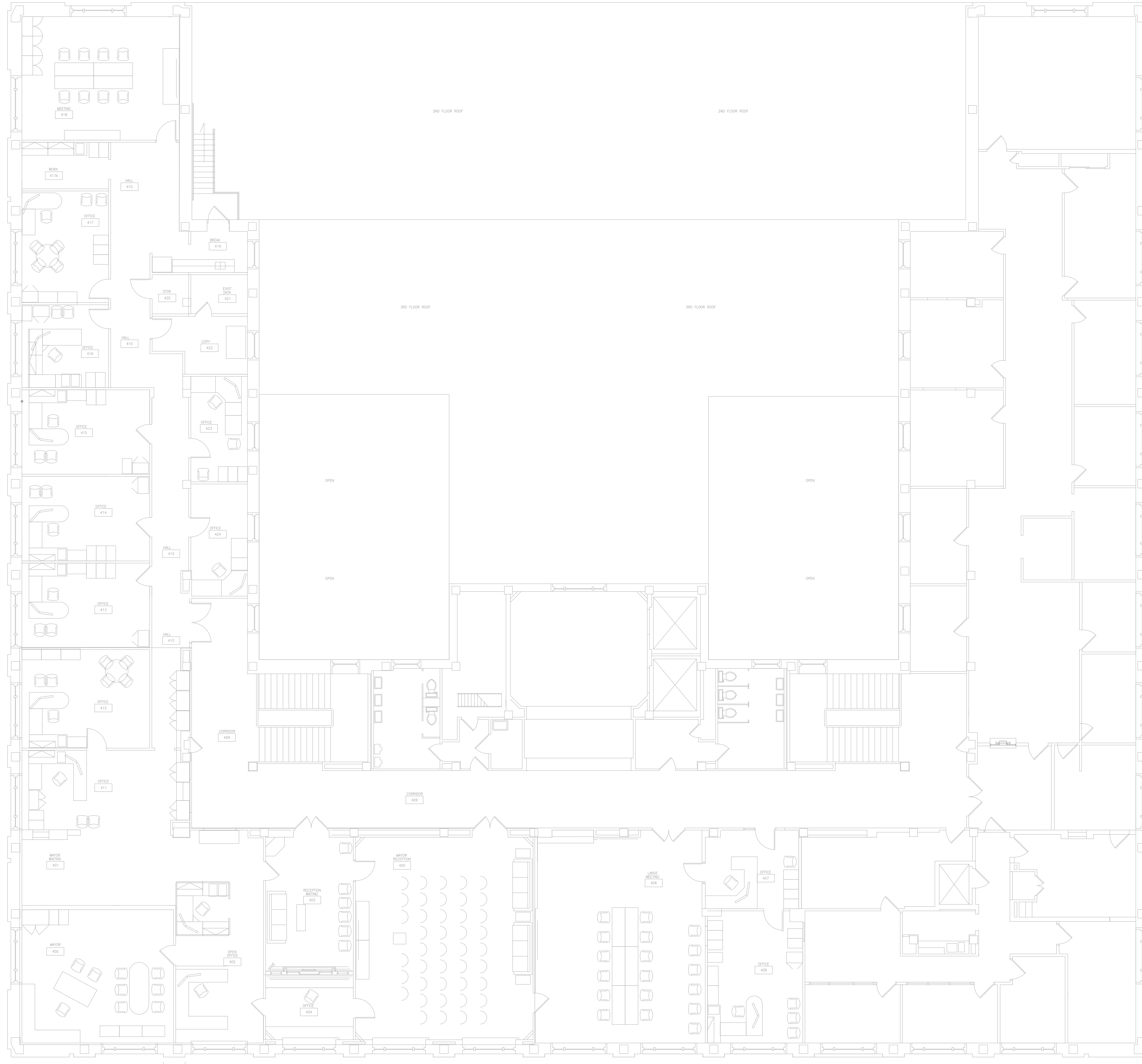
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2ND FLOOR

Date: 05-03-2022
Drawn By: JCM
Checked By: MDP
Project No: 21-0486
DWG Scale: AS NOTED
Sheet Size: 30x42

Revision Number: 0
Sheet Number:



No.	Date:	By:	Revision:																



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Project Title: CITY OF DULUTH
CITY HALL MEP RENEWAL DESIGN

411 WEST 1ST STREET
DULUTH, MN 55802

Sheet Title: FURNITURE PLAN
4TH FLOOR

Date: 05-03-2022
Drawn By: JCM
Checked By: MDP
Project No: 21-0486
DWG Scale: AS NOTED
Sheet Size: 30x42

Revision Number: 0
Sheet Number:

MOTOR AND EQUIPMENT WIRING SCHEDULE

		CONTROLLER/STARTER										DISCONNECT AT MOTOR				DUCT SMOKE		CONDUIT/CONDUCTOR		PANEL	CIRCUIT	OVERCURRENT	NOTES
UNIT NO.	DESCRIPTION		HP	KW	V/PH/Hz	MCA	MOCP	MIN	SCCR	TYPE	SIZE	FURN. BY	NEMA	SIZE	FURN. BY	FUSE SIZE	CONTROL BY	DETECTORS	SIZE & QUANTITY	NAME	NUMBER(S)	PROTECTION	
FC 3-101	VFR CASSETTE	3RD FLOOR	N/A	N/A	208/1/60	4.25	15	10000	N/A	N/A	N/A	N/A	N/A	N/A	MECH	N/A	BAS	N/A	3/4", 2W12, 1#12 GND	LPN-306	1.3	15A/2P	
FC 3-102	VFR CASSETTE	3RD FLOOR	N/A	N/A	208/1/60	1.75	15	10000	N/A	N/A	N/A	N/A	N/A	N/A	MECH	N/A	BAS	N/A	3/4", 2W12, 1#12 GND	LPN-306	5.7	15A/2P	
FC 3-103	VFR CASSETTE	3RD FLOOR	N/A	N/A	208/1/60	2.88	15	10000	N/A	N/A	N/A	N/A	N/A	N/A	MECH	N/A	BAS	N/A	3/4", 2W12, 1#12 GND	LPN-306	5.7	15A/2P	
FC 3-104	VFR CASSETTE	3RD FLOOR	N/A	N/A	208/1/60	1.75	15	10000	N/A	N/A	N/A	N/A	N/A	N/A	MECH	N/A	BAS	N/A	3/4", 2W12, 1#12 GND	LPN-306	9.11	15A/2P	
FC 3-105	VFR CASSETTE	3RD FLOOR	N/A	N/A	208/1/60	1.75	15	10000	N/A	N/A	N/A	N/A	N/A	N/A	MECH	N/A	BAS	N/A	3/4", 2W12, 1#12 GND	LPN-306	5.7	15A/2P	
FC 3-106	VFR CASSETTE	3RD FLOOR	N/A	N/A	208/1/60	2.88	15	10000	N/A	N/A	N/A	N/A	N/A	N/A	MECH	N/A	BAS	N/A	3/4", 2W12, 1#12 GND	LPN-306	9.11	15A/2P	
FC 3-108	VFR CASSETTE	3RD FLOOR	N/A	N/A	208/1/60	2.88	15	10000	N/A	N/A	N/A	N/A	N/A	N/A	MECH	N/A	BAS	N/A	3/4", 2W12, 1#12 GND	LPN-306	13.15	15A/2P	
FC 3-109	VFR CASSETTE	3RD FLOOR	N/A	N/A	208/1/60	1.75	15	10000	N/A	N/A	N/A	N/A	N/A	N/A	MECH	N/A	BAS	N/A	3/4", 2W12, 1#12 GND	LPN-306	9.11	15A/2P	
FC 3-110	VFR CASSETTE	2ND FLOOR	N/A	N/A	208/1/60	7.7	15	10000	N/A	N/A	N/A	N/A	N/A	N/A	MECH	N/A	BAS	N/A	3/4", 2W12, 1#12 GND	LPN-306	13.15	15A/2P	
FC 3-111	VFR CASSETTE	2ND FLOOR	N/A	N/A	208/1/60	4.38	15	10000	N/A	N/A	N/A	N/A	N/A	N/A	MECH	N/A	BAS	N/A	3/4", 2W12, 1#12 GND	LPN-306	17.19	15A/2P	
FC 3-112	VFR CASSETTE	3RD FLOOR	N/A	N/A	208/1/60	2.94	15	10000	N/A	N/A	N/A	N/A	N/A	N/A	MECH	N/A	BAS	N/A	3/4", 2W12, 1#12 GND	LPN-306	17.19	15A/2P	
FC 3-114	VFR CASSETTE	3RD FLOOR	N/A	N/A	208/1/60	1.75	15	10000	N/A	N/A	N/A	N/A	N/A	N/A	MECH	N/A	BAS	N/A	3/4", 2W12, 1#12 GND	LPN-306	21.23	15A/2P	
FC 3-115	VFR CASSETTE	3RD FLOOR	N/A	N/A	208/1/60	2.88	15	10000	N/A	N/A	N/A	N/A	N/A	N/A	MECH	N/A	BAS	N/A	3/4", 2W12, 1#12 GND	LPN-306	21.23	15A/2P	
FC 3-116	VFR CASSETTE	3RD FLOOR	N/A	N/A	208/1/60	2.88	15	10000	N/A	N/A	N/A	N/A	N/A	N/A	MECH	N/A	BAS	N/A	3/4", 2W12, 1#12 GND	LPN-306	21.23	15A/2P	
FC 3-119	VFR CASSETTE	3RD FLOOR	N/A	N/A	208/1/60	1.75	15	10000	N/A	N/A	N/A	N/A	N/A	N/A	MECH	N/A	BAS	N/A	3/4", 2W12, 1#12 GND	LPN-306	25.27	15A/2P	
FC 3-120	VFR CASSETTE	3RD FLOOR	N/A	N/A	208/1/60	2.88	15	10000	N/A	N/A	N/A	N/A	N/A	N/A	MECH	N/A	BAS	N/A	3/4", 2W12, 1#12 GND	LPN-306	29.31	15A/2P	
FC 3-121	VFR CASSETTE	3RD FLOOR	N/A	N/A	208/1/60	1.75	15	10000	N/A	N/A	N/A	N/A	N/A	N/A	MECH	N/A	BAS	N/A	3/4", 2W12, 1#12 GND	LPN-306	29.31	15A/2P	
FC 3-122	VFR CASSETTE	3RD FLOOR	N/A	N/A	208/1/60	2.88	15	10000	N/A	N/A	N/A	N/A	N/A	N/A	MECH	N/A	BAS	N/A	3/4", 2W12, 1#12 GND	LPN-306	33.35	15A/2P	
FC 3-123	VFR CASSETTE	3RD FLOOR	N/A	N/A	208/1/60	1.75	15	10000	N/A	N/A	N/A	N/A	N/A	N/A	MECH	N/A	BAS	N/A	3/4", 2W12, 1#12 GND	LPN-306	29.31	15A/2P	
FC 3-124	VFR CASSETTE	3RD FLOOR	N/A	N/A	208/1/60	2.88	15	10000	N/A	N/A	N/A	N/A	N/A	N/A	MECH	N/A	BAS	N/A	3/4", 2W12, 1#12 GND	LPN-306	33.35	15A/2P	
FC 3-125	VFR CASSETTE	3RD FLOOR	N/A	N/A	208/1/60	2.13	15	10000	N/A	N/A	N/A	N/A	N/A	N/A	MECH	N/A	BAS	N/A	3/4", 2W12, 1#12 GND	LPN-306	33.35	15A/2P	
FC 3-126	VFR CASSETTE	4TH FLOOR	N/A	N/A	208/1/60	4.25	15	10000	N/A	N/A	N/A	N/A	N/A	N/A	MECH	N/A	BAS	N/A	3/4", 2W12, 1#12 GND	LPN-306	37.39	15A/2P	
FC 3-127	VFR CASSETTE	4TH FLOOR	N/A	N/A	208/1/60	2.13	15	10000	N/A	N/A	N/A	N/A	N/A	N/A	MECH	N/A	BAS	N/A	3/4", 2W12, 1#12 GND	LPN-306	37.39	15A/2P	
FC 3-128	VFR CASSETTE	4TH FLOOR	N/A	N/A	208/1/60	2.94	15	10000	N/A	N/A	N/A	N/A	N/A	N/A	MECH	N/A	BAS	N/A	3/4", 2W12, 1#12 GND	LPN-306	37.39	15A/2P	
FC 4-101	VFR CASSETTE	4TH FLOOR	N/A	N/A	208/1/60	2.13	15	10000	N/A	N/A	N/A	N/A	N/A	N/A	MECH	N/A	BAS	N/A	3/4", 2W12, 1#12 GND	LPN-306	41.43	15A/2P	
FC 4-102	VFR CASSETTE	4TH FLOOR	N/A	N/A	208/1/60	1.75	15	10000	N/A	N/A	N/A	N/A	N/A	N/A	MECH	N/A	BAS	N/A	3/4", 2W12, 1#12 GND	LPN-306	41.43	15A/2P	
FC 4-103	VFR CASSETTE	4TH FLOOR	N/A	N/A	208/1/60	2.13	15	10000	N/A	N/A	N/A	N/A	N/A	N/A	MECH	N/A	BAS	N/A	3/4", 2W12, 1#12 GND	LPN-306	41.43	15A/2P	
FC 4-104	VFR CASSETTE	4TH FLOOR	N/A	N/A	208/1/60	2.94	15	10000	N/A	N/A	N/A	N/A	N/A	N/A	MECH	N/A	BAS	N/A	3/4", 2W12, 1#12 GND	LPN-306	45.47	15A/2P	
FC 4-105	VFR CASSETTE	4TH FLOOR	N/A	N/A	208/1/60	2.88	15	10000	N/A	N/A	N/A	N/A	N/A	N/A	MECH	N/A	BAS	N/A	3/4", 2W12, 1#12 GND	LPN-306	45.47	15A/2P	
FC 4-106	VFR CASSETTE	4TH FLOOR	N/A	N/A	208/1/60	2.88	15	10000	N/A	N/A	N/A	N/A	N/A	N/A	MECH	N/A	BAS	N/A	3/4", 2W12, 1#12 GND	LPN-306	49.51	15A/2P	
FC 4-107	VFR CASSETTE	4TH FLOOR	N/A	N/A	208/1/60	2.13	15	10000	N/A	N/A	N/A	N/A	N/A	N/A	MECH	N/A	BAS	N/A	3/4", 2W12, 1#12 GND	LPN-306	49.51	15A/2P	
FC 4-108	VFR CASSETTE	4TH FLOOR	N/A	N/A	208/1/60	1.75	15	10000	N/A	N/A	N/A	N/A	N/A	N/A	MECH	N/A	BAS	N/A	3/4", 2W12, 1#12 GND	LPN-306	49.51	15A/2P	
FC 4-110	VFR CASSETTE	4TH FLOOR	N/A	N/A	208/1/60	4.25	15	10000	N/A	N/A	N/A	N/A	N/A	N/A	MECH	N/A	BAS	N/A	3/4", 2W12, 1#12 GND	LPN-306	53.55	15A/2P	
FC 4-111	VFR CASSETTE	4TH FLOOR	N/A	N/A	208/1/60	2.88	15	10000	N/A	N/A	N/A	N/A	N/A	N/A	MECH	N/A	BAS	N/A	3/4", 2W12, 1#12 GND	LPN-306	55.47	15A/2P	
FC 4-112	VFR CASSETTE	4TH FLOOR	N/A	N/A	208/1/60	2.13	15	10000	N/A	N/A	N/A	N/A	N/A	N/A	MECH	N/A	BAS	N/A	3/4", 2W12, 1#12 GND	LPN-306	53.55	15A/2P	
FC 4-113	VFR CASSETTE	4TH FLOOR	N/A	N/A	208/1/60	1.75	15	10000	N/A	N/A	N/A	N/A	N/A	N/A	MECH	N/A	BAS	N/A	3/4", 2W12, 1#12 GND	LPN-306	57.59	15A/2P	
FC 4-114	VFR CASSETTE	4TH FLOOR	N/A	N/A	208/1/60	1.75	15	10000	N/A	N/A	N/A	N/A	N/A	N/A	MECH	N/A	BAS	N/A	3/4", 2W12, 1#12 GND	LPN-306	57.59	15A/2P	
FC 4-116	VFR CASSETTE	4TH FLOOR	N/A	N/A	208/1/60	4.25	15	10000	N/A	N/A	N/A	N/A	N/A	N/A	MECH	N/A	BAS	N/A	3/4", 2W12, 1#12 GND	LPN-306	57.59	15A/2P	
FC 4-117	VFR CASSETTE	4TH FLOOR	N/A	N/A	208/1/60	2.94	15	10000	N/A	N/A	N/A	N/A	N/A	N/A	MECH	N/A	BAS	N/A	3/4", 2W12, 1#12 GND	LPN-306	24.26	15A/2P	
FC 4-119	VFR CASSETTE	4TH FLOOR	N/A	N/A	208/1/60	1.75	15	10000	N/A	N/A	N/A	N/A	N/A	N/A	MECH	N/A	BAS	N/A	3/4", 2W12, 1#12 GND	LPN-306	24.26	15A/2P	
FC 4-120	VFR CASSETTE	4TH FLOOR	N/A	N/A	208/1/60	2.13	15	10000	N/A	N/A	N/A	N/A	N/A	N/A	MECH	N/A	BAS	N/A	3/4", 2W12, 1#12 GND	LPN-306	24.26	15A/2P	
FC 4-121	VFR CASSETTE	4TH FLOOR	N/A	N/A	208/1/60	1.75	15	10000	N/A	N/A	N/A	N/A	N/A	N/A	MECH	N/A	BAS	N/A	3/4", 2W12, 1#12 GND	LPN-306	32.34	15A/2P	
FC 4-123	VFR CASSETTE	4TH FLOOR	N/A	N/A	208/1/60	2.88	15	10000	N/A	N/A	N/A	N/A	N/A	N/A	MECH	N/A	BAS	N/A	3/4", 2W12, 1#12 GND	LPN-306	28.30	15A/2P	
FC 4-124	VFR CASSETTE	4TH FLOOR	N/A	N/A	208/1/60	2.88	15	10000	N/A	N/A	N/A	N/A	N/A	N/A	MECH	N/A	BAS	N/A	3/4", 2W12, 1#12 GND	LPN-306	28.30	15A/2P	
FC 4-125	VFR CASSETTE	4TH FLOOR	N/A	N/A	208/1/60	1.75	15	10000	N/A	N/A	N/A	N/A	N/A	N/A	MECH	N/A	BAS	N/A	3/4", 2W12, 1#12 GND	LPN-306	32.34	15A/2P	
FC 4-126	VFR CASSETTE	4TH FLOOR	N/A	N/A	208/1/60	2.94	15	10000	N/A	N/A	N/A	N/A	N/A	N/A	MECH	N/A	BAS	N/A	3/4", 2W12, 1#12 GND	LPN-306	32.34	15A/2P	
FC 4-127	VFR CASSETTE	4TH FLOOR	N/A	N/A	208/1/60	1.75	15	10000	N/A	N/A	N/A	N/A	N/A	N/A	MECH	N/A	BAS	N/A	3/4", 2W12, 1#12 GND	LPN-306	36.38	15A/2P	
FC 4-128	VFR CASSETTE	4TH FLOOR	N/A	N/A	208/1/60	2.88	15	10000	N/A	N/A	N/A	N/A	N/A	N/A	MECH	N/A	BAS	N/A	3/4", 2W12, 1#12 GND	LPN-306	40.42	15A/2P	
FC 4-130	VFR CASSETTE	4TH FLOOR	N/A	N/A	208/1/60	2.88	15	10000	N/A	N/A	N/A	N/A	N/A	N/A	MECH	N/A	BAS	N/A	3/4", 2W12, 1#12 GND	LPN-306	36.38	15A/2P	
FC 4-132	VFR CASSETTE	4TH FLOOR	N/A	N/A	208/1/60	1.75	15	10000	N/A	N/A	N/A	N/A	N/A	N/A	MECH	N/A	BAS	N/A	3/4", 2W12, 1#12 GND	LPN-306	40.42	15A/2P	
FC 4-133	VFR CASSETTE	4TH FLOOR	N/A	N/A	208/1/60	4.25	15	10000	N/A	N/A	N/A	N/A	N/A	N/A	MECH	N/A	BAS	N/A	3/4", 2W12, 1#12 GND	LPN-306	44.46	15A/2P	
FC 4-134	VFR CASSETTE	4TH FLOOR	N/A	N/A	208/1/60	2.13	15	10000	N/A	N/A	N/A	N/A	N/A	N/A	MECH	N/A	BAS	N/A	3/4", 2W12, 1#12 GND	LPN-306	20.22	15A/2P	
BCC-A1	BRANCH CIRCUIT CONTROLLER	GROUND FLOOR	N/A	MINIMAL	208/1/60	MINIMAL	15	10000	N/A	N/A	N/A	N/A	N/A	N/A	MECH	N/A	BAS	N/A	3/4", 2W12, 1#12 GND	LPN-G05	37.39	15A/2P	
BCC-A2	BRANCH CIRCUIT CONTROLLER	GROUND FLOOR	N/A	MINIMAL	208/1/60	MINIMAL	15	10000	N/A	N/A	N/A	N/A	N/A	N/A	MECH	N/A	BAS	N/A	3/4", 2W12, 1#12 GND	LPN-G03	44.46	15A/2P	
BCC-F1	BRANCH CIRCUIT CONTROLLER	1ST FLOOR	N/A	MINIMAL	208/1/60	MINIMAL	15	10000	N/A	N/A	N/A	N/A	N/A	N/A	MECH	N/A	BAS	N/A	3/4", 2W12, 1#12 GND	LPN-102	44.46	15A/2P	
BCC-G1	BRANCH CIRCUIT CONTROLLER	1ST FLOOR	N/A	MINIMAL	208/1/60	MINIMAL	15	10000	N/A	N/A	N/A	N/A	N/A	N/A	MECH	N/A	BAS	N/A	3/4", 2W12, 1#12 GND	LPN-101	68.20	15A/2P	
BCC-H1	BRANCH CIRCUIT CONTROLLER	2ND FLOOR	N/A	MINIMAL	208/1/60	MINIMAL	15	10000	N/A	N/A	N/A	N/A	N/A	N/A	MECH	N/A	BAS	N/A	3/4", 2W12, 1#12 GND	LPN-204	16.88	15A/2P	
BCC-H2	BRANCH CIRCUIT CONTROLLER	2ND FLOOR	N/A	MINIMAL	208/1/60	MINIMAL	15	10000	N/A	N/A	N/A	N/A	N/A	N/A	MECH	N/A	BAS	N/A	3/4", 2W12, 1#12 GND	LPN-203	82.84	15A/2P	
BCC-I1	BRANCH CIRCUIT CONTROLLER	2ND FLOOR	N/A	MINIMAL	208/1/60	MINIMAL	15	10000	N/A	N/A	N/A	N/A	N/A	N/A	MECH	N/A	BAS	N/A	3/4", 2W12, 1#12 GND	LPN-204	12.84	15A/2P	
BCC-I2	BRANCH CIRCUIT CONTROLLER	2ND FLOOR	N/A	MINIMAL	208/1/60	MINIMAL	15	10000	N/A	N/A	N/A	N/A											

GENERAL MOTOR AND EQUIPMENT SCHEDULE NOTES

- A. DIVISION 26 CONTRACTOR TO VERIFY EQUIPMENT SPECIFICATION INFORMATION WITH CORRESPONDING MECHANICAL SCHEDULES AND SHOP DRAWINGS PRIOR TO INSTALLATION.
- B. DIVISION 26 CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING REQUIRED ELECTRICAL INTERCONNECTING POWER WIRING BETWEEN STARTERS/VFDs, DISCONNECTS AND CONNECTIONS TO MECHANICAL EQUIPMENT LISTED UNLESS NOTED OTHERWISE.
- C. DUCT SMOKE DETECTORS SHALL BE PROVIDED ON BOTH THE SUPPLY AND RETURN DUCT WHEN INDICATED ON SCHEDULE.
- D. DUCT SMOKE DETECTORS SHALL BE FURNISHED AND WIRED BY DIVISION 26 CONTRACTOR, INSTALLED BY DIVISION 23 CONTRACTOR.
- E. ALL EQUIPMENT SIZES, LOADS, HP RATINGS, CIRCUIT BREAKER SIZES, STARTER SIZES, CONNECTION TYPE, AND CONDUIT/WIRE SIZES ARE AS PER THE SIZES AND BASIS OF DESIGN EQUIPMENT COORDINATED DURING DESIGN WITH THE VARIOUS DISCIPLINES. ALL REVISIONS AFTER BID (PER EQUIPMENT SUBMITTALS AND ACTUAL SUPPLIED EQUIPMENT) SHALL BE CONSOLIDATED INTO A SINGLE CONFIRMING RFI SUBMITTED BY THE ELECTRICAL CONTRACTOR SHOWING REDLINED PROPOSED REVISIONS TO BE REVIEWED BY KFI.

SPECIFIC MOTOR AND EQUIPMENT SCHEDULE NOTES:

1. PROVIDE (2) DEDICATED 120 VOLT, 20 AMP CIRCUIT TO UNIT, ONE FOR GENERAL PURPOSE GFCI OUTLETS AND GENERAL LIGHTING AND THE SECOND CIRCUIT FOR THE 120V HEAT WHEEL 3/4HP MOTOR.
2. PROVIDE DEDICATED 120 VOLT, 20 AMP CIRCUIT TO UNIT FOR GENERAL PURPOSE GFCI WEATHERPROOF OUTLET.
3. COORDINATE LOCATION OF ANY STARTERS/VFD'S AND DISCONNECTS PROVIDED BY MECHANICAL WITH EQUIPMENT, ALSO COORDINATE POINT OF CONNECTION TO EQUIPMENT FOR ELECTRICAL FEEDER WITH MECHANICAL CONTRACTOR.

1	05-25-2022	LAA	ADDENDUM #2
No:	Date:	By:	Revision:

I HEREBY CERTIFY THAT THIS PLAN,
SPECIFICATION OR REPORT WAS PREPARED BY
ME OR UNDER MY DIRECT SUPERVISION AND THAT
I AM A DULY LICENSED PROFESSIONAL ENGINEER
UNDER THE LAWS OF THE STATE OF MINNESOTA.
PRINT NAME: LUCIA A. ANDERSON

DATE: 05-03-2022 REG. NO.: 27049

KFI
ENGINEERS
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Project Title:

CITY OF DULUTH
CITY HALL MEP RENEWAL DESIGN

411 WEST 1ST STREET
DULUTH, MN 55802

Sheet Title: MOTOR SCHEDULE

Date:	05-03-2022
Drawn By:	GAA
Checked By:	LAA
Project No:	21-0486
DWG Scale:	AS NOTED
Sheet Size:	30x42

Revision Number:

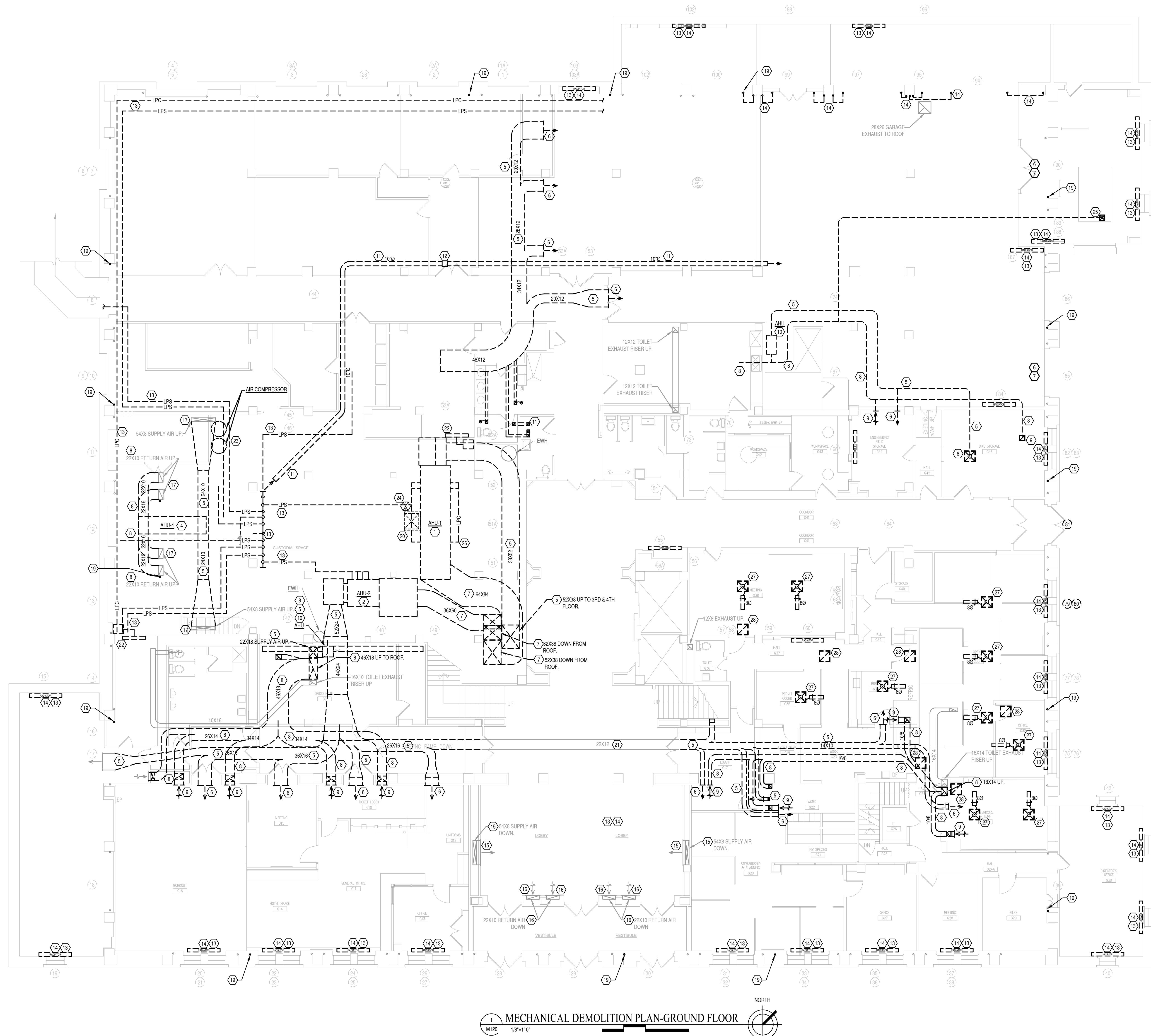
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Sheet Number:

E502

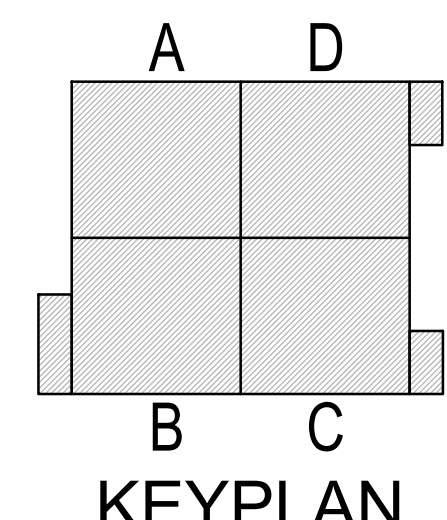
PANEL: LP3N-G09				VOLTAGE: 120/208V, 3PH, 4W							
NO.	AMP/P	NOTE	DESCRIPTION	PH	CODE L VA	CODE C VA	CODE R VA	CODE M VA	CODE E VA	CODE K VA	CODE D VA
3	30/3		DOAS-1 (RETURN FAN)	- A -				2795			
5				- B -				2795			
7				- C -				2795			
9	45/3		DOAS-1 (SUPPLY FAN)	- A -				3539			
11				- B -				3539			
13				- C -				3539			
15	30/3		DOAS-2 (RETURN FAN)	- A -				2795			
17				- B -				2795			
19				- C -				2795			
21	45/3		DOAS-2 (SUPPLY FAN)	- A -				3539			
23				- B -				3539			
25				- C -				3539			
27	50/3		WHP-A1 (WATER HEAT PUMP)	- A -				4198			
29				- B -				4198			
31				- C -				4198			
33	50/3		WHP-F1 (WATER HEAT PUMP)	- A -				4198			
35				- B -				4198			
37				- C -				4198			
39	80/3		WHP-G1 (WATER HEAT PUMP)	- A -				6477			
41				- B -				6477			
43				- C -				6477			
45	15/3		SPARE	- A -							
47				- B -							
49				- C -							
51	20/3		SPARE	- A -							
53				- B -							
55				- C -							
57	30/3		P-3 (HOT WATER PUMP)	- A -				2904			
59				- B -				2904			
2				- C -				2904			
4	30/3		P-4 (HOT WATER PUMP)	- A -				2904			
6				- B -				2904			
8				- C -				2904			
10	15/2		FC 0-102, FC 0-103	- A -					443		
12				- B -					443		
14	15/2		FC 0-105, FC 0-106	- A -					364		
16				- B -					364		
18	15/2		FC 0-107, FC 0-108, FC 0-109	- A -					703		
20				- B -					703		
22	15/2		FC 0-110, FC 0-111, FC 0-112	- A -					664		
24				- B -					664		
26	15/2		FC 0-113, FC 0-114, FC 0-116	- A -					664		
28				- B -					664		
30	15/2		FC 0-117, FC 0-118	- A -					404		
32				- B -					404		
34	15/2		FC 0-119, FC 0-120, FC 0-121	- A -					546		
36				- B -					546		
38	15/2		FC 0-115, FC 0-122, FC 0-123	- A -					546		
40				- B -					546		
42	20/3		SPARE	- A -							
44				- B -							
46				- C -							
48	20/3		SPARE	- A -							
50				- B -							
52				- C -							
54	20/3		SPARE	- A -							
56				- B -							
58	15/2		SPARE	- C -							
60				- A -							
THROUGH FEED LUG CONNECTION				- A -							
				- B -							
				- C -							
MAIN BREAKER				- A -	0	0	0	33349	3227	0	0
				- B -	0	0	0	33349	2760	0	0
				- C -	0	0	0	33349	2681	0	0
OVERCURRENT DEVICE NOTES:								Total	- A -	- B -	- C -
1 - PROVIDE LOCK-ON DEVICE					CONN KVA PHASE LOADS						
2 - CONNECT VIA TIMECLOCK					DMD	CONN	BUS KVA LOADS				
3 -					0.0	0.0	CODE L - LIGHTING				
4 -					0.0	0.0	CODE C - CONVENIENCE RECEPTACLES (180 W)				
5 -					0.0	0.0	CODE R - RECEPTACLES (NON CONVENIENCE)				
Panelboard Notes:					100.0	100.0	CODE M - MOTORS LARGEST MTR VA = 0				
1 - PROVIDE DUTY TYPE SWITCHES					8.7	8.7	CODE E - ELECTRIC HEAT				
2 - E.C SHALL BALANCE EACH PHASE WITHIN 10%					0.0	0.0	CODE K - KITCHEN EQUIP DMD = 100%				
3 -					0.0	0.0	CODE D - DWELLING UNITS (HOTEL/MOTEL ROOMS)				
4 -					109	109	TOTAL KVA				
5 -					0	0	SPARE KVA SPARE = 0%				
SURFACE					109	109	ADJUSTED KVA (DEMAND + SPARE KVA)				
22KA					302	302	ADJUSTED AMPS (DEMAND + SPARE KVA)				
400							AMP RATING OF BUS				
400							PANEL AMP RATING (MIN MAIN)				
208							PHASE TO PHASE VOLTAGE				
					FILE NAME:	PROJECT NUMBER :	PROJECT NAME :				
					120/208V	21-0486	Duluth City Hall				

PANEL: LP3N-G10				VOLTAGE: 120/208V, 3PH, 4W SD QMIF 08-1002-1							
NO.	AMP/P	NOTE	DESCRIPTION	PH	CODE L VA	CODE C VA	CODE R VA	CODE M VA	CODE E VA	CODE K VA	CODE D VA
3	60/3		EXISTING LOAD	- A -							
5				- B -							
7				- C -							
9	60/3		EXISTING LOAD	- A -							
11				- B -							
				- C -							
13	20/1		EXISTING LOAD	- A -							
15	20/1		EXISTING LOAD	- B -							
17	20/1		EXISTING LOAD	- C -							
19	20/1		EXISTING LOAD	- A -							
21	20/1		EXISTING LOAD	- B -							
23	20/1		SPARE	- C -							
25	20/1		SPARE	- A -							
27	20/1		SPARE	- B -							
29	20/1		SPARE	- C -							
31	20/1		SPARE	- A -							
33	20/1		SPACE	- B -							
35	20/1		SPACE	- C -							
37	20/1		SPACE	- A -							
39	20/1		SPACE	- B -							
41	20/1		SPACE	- C -							
2				- A -							
4	60/3		EXISTING LOAD	- B -							
6				- C -							
8	30/2		EXISTING LOAD	- A -							
10				- B -							
12	20/1			- C -							
14	20/1			- A -							
16	20/2		EXISTING LOAD	- B -							
18				- C -							
20	20/1		EXISTING LOAD	- A -							
22	20/1		EXISTING LOAD	- B -							
24	20/1		SPARE	- C -							
26	20/1		SPARE	- A -							
28	20/1		SPARE	- B -							
30	20/1		SPARE	- C -							
32	20/1		SPARE	- A -							
34	20/1		SPACE	- B -							
36	20/1		SPACE	- C -							
38	20/1		SPACE	- A -							
40	20/1		SPACE	- B -							
42	20/1		SPACE	- C -							
THROUGH FEED				- A -							
LUG				- B -							
CONNECTION				- C -							
MAIN BREAKER				- A -	0	0	0	0	0	0	0
				- B -	0	0	0	0	0	0	0
				- C -	0	0	0	0	0	0	0
OVERCURRENT DEVICE NOTES:											
1 - PROVIDE LOCK-ON DEVICE					CONN KVA PHASE LOADS			Total	- A -	- B -	- C -
2 - CONNECT VIA TIMECLOCK								0.0	0.0	0.0	0.0
					DMD	CONN	BUS KVA LOADS				
3 -					0.0	0.0	CODE L - LIGHTING				
4 -					0.0	0.0	CODE C - CONVENIENCE RECEPTACLES (180 W)				
5 -					0.0	0.0	CODE R - RECEPTACLES (NON CONVENIENCE)				
Panelboard Notes:					0.0	0.0	CODE M - MOTORS LARGEST MTR VA = 0				
1 - PROVIDE DUTY TYPE SWITCHES					0.0	0.0	CODE E - ELECTRIC HEAT				
2 - E.C SHALL BALANCE EACH PHASE WITHIN 10%					0.0	0.0	CODE K - KITCHEN EQUIP DMD = 100%				
3 -					0.0	0.0	CODE D - DWELLING UNITS (HOTEL/MOTEL ROOMS)				
4 -					0	0	TOTAL KVA				
5 -					0	0	SPARE KVA SPARE = 0%				
SURFACE					0	0	ADJUSTED KVA (DEMAND + SPARE KVA)				
10KA					0	0	ADJUSTED AMPS (DEMAND + SPARE KVA)				
200					AMP RATING OF BUS						
150					PANEL AMP RATING (MIN MAIN)						
208					PHASE TO PHASE VOLTAGE						
					FILE NAME:		PROJECT NUMBER :		PROJECT NAME		
					120/208V		21-0486		Duluth City Hall		
					5/23/2022						



- GENERAL NOTES:**
- A. CONTRACTOR SHALL REMOVE UNUSED STEAM AND CONDENSATE PIPING ENCOUNTERED DURING WALL AND CEILING WORK.
 - B. CONTRACTOR SHALL COORDINATE CONSTRUCTION PHASING PRIOR TO DEMOLITION. COORDINATE TIMING OF REMOVAL.
 - C. CONTRACTOR SHALL VERIFY EXACT LOCATION OF ALL EQUIPMENT ON SITE. CONTRACTOR SHALL VERIFY SIZE, LOCATION, AND ROUTING OF ALL DUCTWORK, PIPING, AND CONTROL COMPONENTS ON SITE.
 - D. CONTRACTOR SHALL REMOVE ALL EXISTING PNEUMATIC CONTROL COMPONENTS. VERIFY ALL CONDITIONS ON SITE.

- KEY NOTES (DEMOLITION):**
- 1 REMOVE EXISTING AIR HANDLING UNIT AHU-1 AND ALL ASSOCIATED COMPONENTS AND ACCESSORIES.
 - 2 REMOVE EXISTING AIR HANDLING UNIT AHU-2 AND ALL ASSOCIATED COMPONENTS AND ACCESSORIES.
 - 3 REMOVE ALL ABANDONED COMPONENTS, DUCTWORK, AND ACCESSORIES.
 - 4 REMOVE EXISTING AIR HANDLING UNIT AHU-4 AND ALL ASSOCIATED COMPONENTS AND ACCESSORIES.
 - 5 REMOVE EXISTING SUPPLY AIR DUCTWORK.
 - 6 REMOVE EXISTING SUPPLY AIR DIFFUSER OR GRILLE, COORDINATE PATCHING WALLS AS REQUIRED.
 - 7 REMOVE EXISTING OUTDOOR AIR DUCTWORK.
 - 8 REMOVE EXISTING RETURN AIR DUCTWORK.
 - 9 REMOVE EXISTING RETURN AIR GRILLE, COORDINATE PATCHING WALLS AS REQUIRED.
 - 10 REMOVE EXISTING AIR HANDLING UNIT AND ALL ASSOCIATED COMPONENTS AND ACCESSORIES.
 - 11 REMOVE EXISTING TRANSFER AIR DUCTWORK.
 - 12 REMOVE EXISTING TRANSFER AIR FAN.
 - 13 REMOVE EXISTING STEAM RADIATOR.
 - 14 REMOVE EXISTING LPS AND LPC BRANCH PIPING FOR INDICATED STEAM RADIATOR BACK TO RISER AND CAP AS CLOSE AS POSSIBLE.
 - 15 EXISTING SUPPLY AIR GRILLES AND SUPPLY DUCTWORK TO REMAIN.
 - 16 EXISTING RETURN AIR GRILLES AND RETURN DUCTWORK TO REMAIN.
 - 17 EXISTING SUPPLY AND RETURN DUCTWORK UP TO REMAIN.
 - 18 EXISTING STEAM RADIATOR TO REMAIN.
 - 19 REMOVE EXISTING STEAM RISER.
 - 20 REMOVE EXISTING MOP SINK, ASSOCIATED PLUMBING WALLS, AND REMOVE COLD WATER AND HOT WATER PIPING BACK TO MAIN AND CAP EXISTING PIPING. REUSE EXISTING WASTE AND VENT PIPING.
 - 21 EXISTING SUPPLY DUCTWORK ABOVE COFFERED CEILING TO REMAIN.
 - 22 REMOVE EXISTING SPLIT SYSTEM.
 - 23 REMOVE AND RETAIN EXISTING AIR COMPRESSORS. RETURN TO OWNER.
 - 24 REMOVE EXISTING EYE WASH STATION, ASSOCIATED ASSEMBLY, AND REMOVE HOT WATER AND COLD WATER PIPING BACK TO MAIN AND CAP PIPING. VERIFY SIZE AND ROUTING ON SITE.
 - 25 REMOVE ALL ASSOCIATED DUCTWORK, REMOVE CURB, AND PATCH ROOF.
 - 26 RELOCATE EXISTING WATER METER AND ASSOCIATED WATER PIPING.
 - 27 REMOVE SUPPLY DIFFUSERS, CONNECTED SUPPLY BRANCH DUCTWORK, DUCT MANS AND AIR HANDLING EQUIPMENT IN ENTIRETY. VERIFY DUCTWORK ROUTING AND AIR HANDLING EQUIPMENT EXACT LOCATIONS ON SITE.
 - 28 REMOVE RETURN GRILLES. VERIFY EXACT LOCATION ON SITE.



1 05-25-2022 CRE ADDENDUM #2 No. Date By: Revision:				I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA. PRINT NAME: <u>Randy P. Christenson</u> DATE: <u>05-03-2022</u> REG. NO.: <u>40493</u>				KFI ENGINEERS 570 County Road B West St. Paul, Minnesota 55113 Tel: (651) 771-0880 Fax: (651) 771-0878 Email: kfi@kfi-eng.com				Project Title: CITY OF DULUTH CITY HALL MEP RENEWAL DESIGN 411 WEST 1ST STREET DULUTH, MN 55802				Sheet Title: MECHANICAL DEMOLITION PLAN GROUND FLOOR				Date: <u>05-03-2022</u> Drawn By: <u>JCM</u> Checked By: <u>MOP</u> Project No: <u>21-0486</u> DWG Scale: <u>AS NOTED</u> Sheet Size: <u>30x42</u>				Revision Number: 0 Sheet Number: M120			
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