## PROJECT LOCATION MAP



## PROJECT COVER

## **HOOVER SHEET INDEX**

AG001.1	COVER SHEET
AG002.1	GENERAL BUILDING PLANS
AD100.1	DEMO FLOOR PLANS
AD200.1	EXISTING CONDITIONS
A100.1	FLOOR PLANS
A101.1	PENTHOUSE PLANS
ME000.1	MECHANICAL/ ELECTRICAL GENERAL NOTES & SYM
ME101.1	ELECTRICAL/MECHANICAL HOOVER

## ORAN PAPE SHEET INDEX

AG001.2	COVER SHEET
AG002.2	SITE LOGISTICS PLAN
AD100.2	DEMO FLOOR PLANS
AD200.2	EXISTING CONDITIONS
AD201.2	EXISTING CONDITIONS
A100.2	FLOOR PLANS
ME000.2	MECHANICAL / ELECTRICAL GENERAL NOTES & SYMBOLS
ME101.2	ELECTRICAL / MECHANICAL ORAN PAPE

## IWD SHEET INDEX

AG001.3	COVER SHEET
AG002.3	SITE LOGISTICS PLAN
AD100.3	DEMO FLOOR PLANS
AD101.3	DEMO FLOOR PLANS
AD200.3	EXISTING CONDITIONS
AD201.3	EXISTING CONDITIONS
AD202.3	EXISTING CONDITIONS
A100.3	FLOOR PLANS
A101.3	FLOOR PLANS
ME000.3	MECHANICAL / ELECTRICAL GENERAL NOTES & SYMBOLS
ME101.3	ELECTRICAL / MECHANICAL IWD EAST
ME102.3	ELECTRICAL / MECHANICAL IWD CENTRAL

## **GRIMES SHEET INDEX**

7.0001.1	
AG002.4	SITE LOGISTICS PLAN
AD100.4	DEMO FLOOR PLANS
AD200.4	EXISTING CONDITIONS
AD201.4	EXISTING CONDITIONS
A100.4	FLOOR PLANS
ME000.4	MECHANICAL / ELECTRICAL GENERAL NOTES & SYMBOLS
ME101 4	ELECTRICAL / MECHANICAL GRIMES

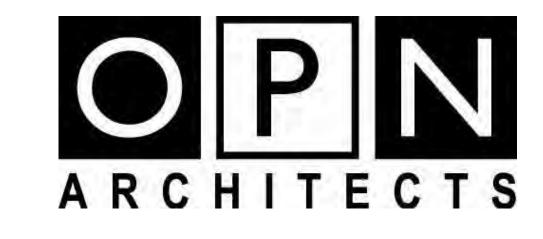
## **LUCAS SHEET INDEX**

AG001.5	COVER SHEET
AG002.5	SITE LOGISTICS PLAN
AD100.5	DEMO FLOOR PLANS
AD101.5	DEMO FLOOR PLANS
AD200.5	EXISTING CONDITIONS
AD201.5	EXISTING CONDITIONS
A100.5	FLOOR PLANS
A101.5	FLOOR PLANS
ME000.5	MECHANICAL / ELECTRICAL GENERAL NOTES & SYM
ME101.5	ELECTRICAL / MECHANICAL LUCAS HYDRAULIC
ME102.5	ELECTRICAL / MECHANICAL LUCAS FREIGHT

## **JESSIE PARKER SHEET INDEX**

AG001.6	COVER SHEET
AG002.6	SITE LOGISTICS PLAN
AD100.6	DEMO FLOOR PLANS
AD101.6	DEMO FLOOR PLANS
AD200.6	EXISTING CONDITIONS
AD201.6	EXISTING CONDITIONS
A100.6	FLOOR PLANS - NORTH
A101.6	FLOOR PLANS - SOUTH
ME000.6	MECHANICAL / ELECTRICAL GENERAL NOTES & SYMBOLS
ME101.6	ELECTRICAL / MECHANICAL JESSIE PARKER NORTH
ME102.6	ELECTRICAL / MECHANICAL JESSIE PARKER SOUTH

# STATE OF IOWA -CAPITOL COMPLEX ELEVATOR MODERNIZATIONS



100 Court Ave. Suite 100, Des Moines, IA 50309 P: 515-309-0722 F: 515-309-0725 www.opnarchitects.com

DES MOINES, IA 50309

MECHANICAL ENGINEER

**ELECTRICAL ENGINEER** 

AG001.

## PROJECT LOCATION MAP



## SHEET INDEX

AG001.1	COVER SHEET
AG002.1	SITE LOGISTICS PLAN
AD100.1	DEMO FLOOR PLANS
AD200.1	EXISTING CONDITIONS
A100.1	FLOOR PLANS
A101.1	PENTHOUSE PLANS

MECHANICAL / ELECTRICAL GENERAL NOTES & SYMBOLS

## APPLICABLE CODE INFORMATION

Elevator pit sump pump is not required per 72.13(3).

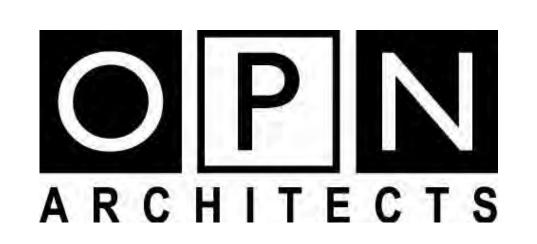
NFPA-13 Chapter 8 - Section 8.15.5

THE PRO	JECT SHALL COMPLY WITH THE FOLLOWING CODES
2015 INT	ERNATIONAL BUILDING CODE
	BILITY - DIVISION 7 of IOWA STATE BUILDING CODE, IOWA STATE ACCESSIBILITY CODE 2015 ANSI A117.1 - 2009 EDITION
2015 INT	ERNATIONAL MECHANICAL CODE
2015 INT	ERNATIONAL FIRE CODE
2011 NAT	TIONAL ELECTRICAL CODE
2015 INT	ERNATIONAL EXISTING BUILDING CODE
-	oter 2 - Use and Occupancy Classification
	mary Occupancy: e use and occupancy classification of the existing building are unchanged.
	oter 5 - General Building Heights and Areas
	sting building use and size to remain unchanged.
	oter 6 - Types of Construction
The	e type of construction for the existing building is unchanged.
	per 7 - Fire and Smoke Protection Features
	w construction is limited and existing construction is not being modified.
-	oter 8 - Interior Finishes
	w construction is limited and matches existing interior finishes.
-	oter 10 - Means of Egress means of egress are being maintained in the existing building.
	oter 30 - Elevators and Conveying Systems
OII	e resistance rated construction is provided at the elevator machine room.  oke protection at hoistway openings is not required per IBC 3006.2.
IBE Chap	e resistance rated construction is provided at the elevator machine room. oke protection at hoistway openings is not required per IBC 3006.2. oter 34 Existing Structures:
IBE Chap	e resistance rated construction is provided at the elevator machine room. oke protection at hoistway openings is not required per IBC 3006.2. oter 34 Existing Structures: e updates to the existing building conform to the requirements of the code for new construction and are to be made
IBE Chap The with	e resistance rated construction is provided at the elevator machine room. oke protection at hoistway openings is not required per IBC 3006.2. oter 34 Existing Structures: e updates to the existing building conform to the requirements of the code for new construction and are to be made the same materials of which the original building is constructed. The existing building is in compliance with the
IBE Chap The with ma	e resistance rated construction is provided at the elevator machine room. oke protection at hoistway openings is not required per IBC 3006.2.  oter 34 Existing Structures: e updates to the existing building conform to the requirements of the code for new construction and are to be made the same materials of which the original building is constructed. The existing building is in compliance with the indatory fire safety requirements, the mandatory means of egress requirements, and the general safety requirements.
IBE Chap The with ma of t	e resistance rated construction is provided at the elevator machine room. oke protection at hoistway openings is not required per IBC 3006.2. oter 34 Existing Structures: e updates to the existing building conform to the requirements of the code for new construction and are to be made the same materials of which the original building is constructed. The existing building is in compliance with the indatory fire safety requirements, the mandatory means of egress requirements, and the general safety requirements chapter.
IBE Chap The with ma of t	e resistance rated construction is provided at the elevator machine room. oke protection at hoistway openings is not required per IBC 3006.2.  oter 34 Existing Structures: e updates to the existing building conform to the requirements of the code for new construction and are to be made the same materials of which the original building is constructed. The existing building is in compliance with the indatory fire safety requirements, the mandatory means of egress requirements, and the general safety requirements.
IBE Chap The with ma of t Iowa Adn Public:	e resistance rated construction is provided at the elevator machine room. oke protection at hoistway openings is not required per IBC 3006.2. oter 34 Existing Structures: e updates to the existing building conform to the requirements of the code for new construction and are to be made in the same materials of which the original building is constructed. The existing building is in compliance with the indatory fire safety requirements, the mandatory means of egress requirements, and the general safety requirements chapter. In the code, Chapter 16, Division VII - Accessibility Requirements For Facilities Used by the General construction at the code of the code
IBE Chap The with ma of t lowa Adn Public: Acc	e resistance rated construction is provided at the elevator machine room. oke protection at hoistway openings is not required per IBC 3006.2. oter 34 Existing Structures:  e updates to the existing building conform to the requirements of the code for new construction and are to be made the same materials of which the original building is constructed. The existing building is in compliance with the indatory fire safety requirements, the mandatory means of egress requirements, and the general safety requirements chapter.

machine room nor at the bottom of the elevator pit (traction elevators). A sprinkler is not required a the top of the

# STATE OF IOWA - HOOVER BUILDING ELEVATOR MOD.

1305 E. Walnut Street, DES MOINES, IA 50319



100 Court Ave. Suite 100, Des Moines, IA 50309 P: 515-309-0722 F: 515-309-0725 www.opnarchitects.com

**ARCHITECT OPN ARCHITECTS** 100 COURT AVENUE - SUITE 100

DES MOINES, IA 50309

CONSTRUCTION MANAGER

220 SE 6TH STREET - SUITE 200

DES MOINES, IA 50309

MECHANICAL ENGINEER KCL ENGINEERING 300 4TH STREET WEST DES MOINES, IA 50265

KCL ENGINEERING 300 4TH STREET WEST DES MOINES, IA 50265

**ELECTRICAL ENGINEER** 

VERTICAL TRANSPORTATION LERCH BATES 706 SECOND AVENUE SOUTH MINNEAPOLIS, MN 55402

D2 OVERALL SITE PLAN



1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 25 |

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 22 23 23 24 25 25

NO CONTRACTOR PARKING IN THESE LOTS.

PROJECT ELEVATOR:
ELEVATOR GOES TO 5TH FLOOR - SEE PLANS
FOR ACCESS TO PENTHOUSE.

— EXTERIOR CONTRACTOR STAGING

CRANE STAGING AREA

CONTRACTOR PARKING IN PUBLIC LOTS ACROSS FROM HOOVER BUILDING.

Revision Description

100 Court Ave., Suite 100 Des Moines, IA 50309 P: 515-309-0722

www.opnarchitects.com

rights, including the copyright thereto.

© 2025 OPN Architects, Inc.

STATE OF IOWA 109 SE 13TH STREET DES MOINES, IA 50319

1305 E. Walnut Street DES MOINES, IA 50319

CONSTRUCTION MANAGER

DES MOINES, IA 50309

220 SE 6TH STREET, SUITE 200

7625 GOLDEN TRIANGLE DRIVE,

EDEN PRAIRIE, MN 55344

WEST DES MOINES, IA 50317

WEST DES MOINES, IA 50317

**DCI GROUP** 

ELEVATOR CONSULTANT

LERCH BATES

SUITE T

Mechanical Engineer

KCL ENGINEERING
300 4TH STREET

Electrical Engineer

KCL ENGINEERING

300 4TH STREET

Owner

All reports, plans, specifications, computer files, field data, notes and other documents and instruments prepared by OPN Architects, Inc. as instruments of service shall remain the property of OPN Architects, Inc. OPN Architects, Inc. shall retain all common law, statutory and other reserved

HOOVER BUILDING ELEVATOR MOD.

2485000

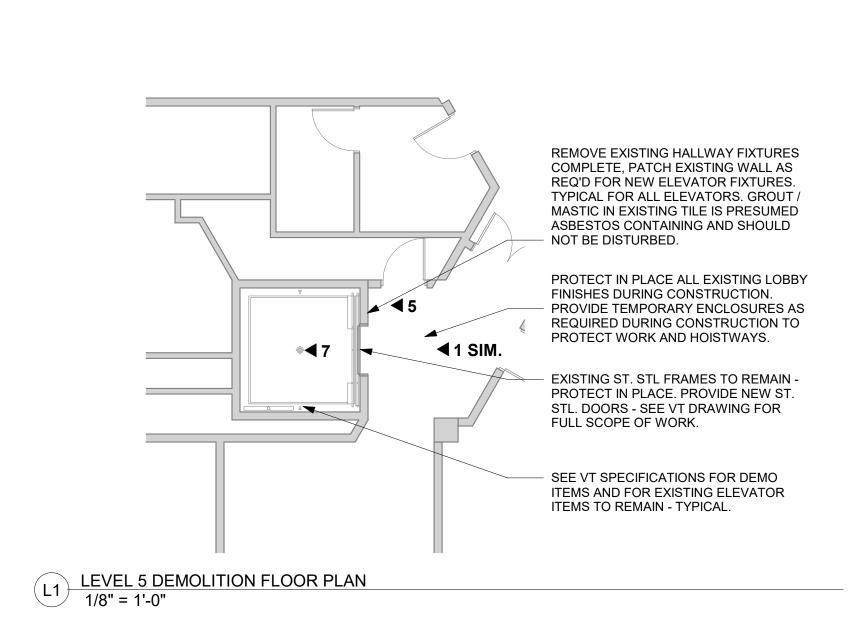
SET

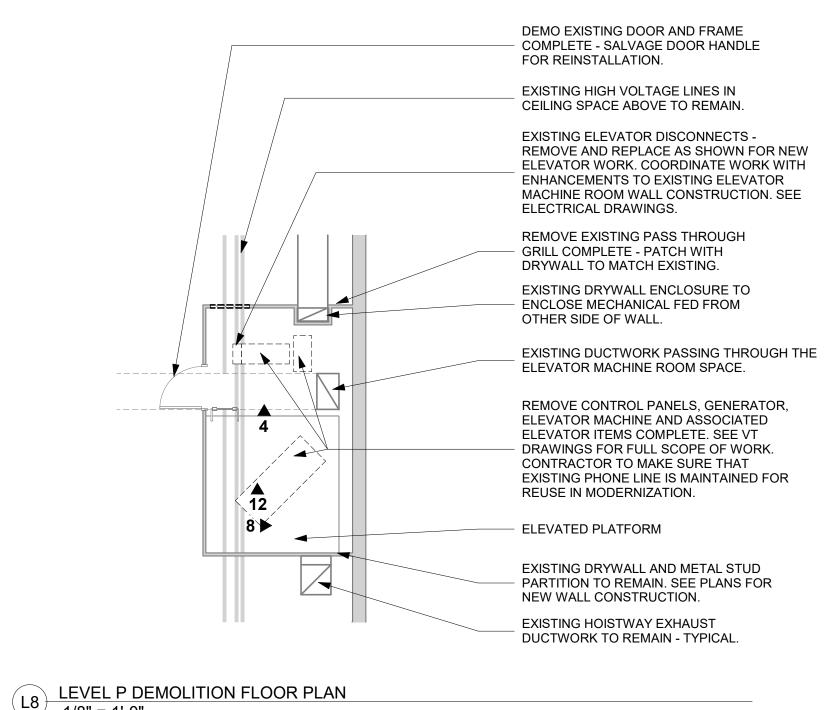
Name

SITE LOGISTICS PLAN

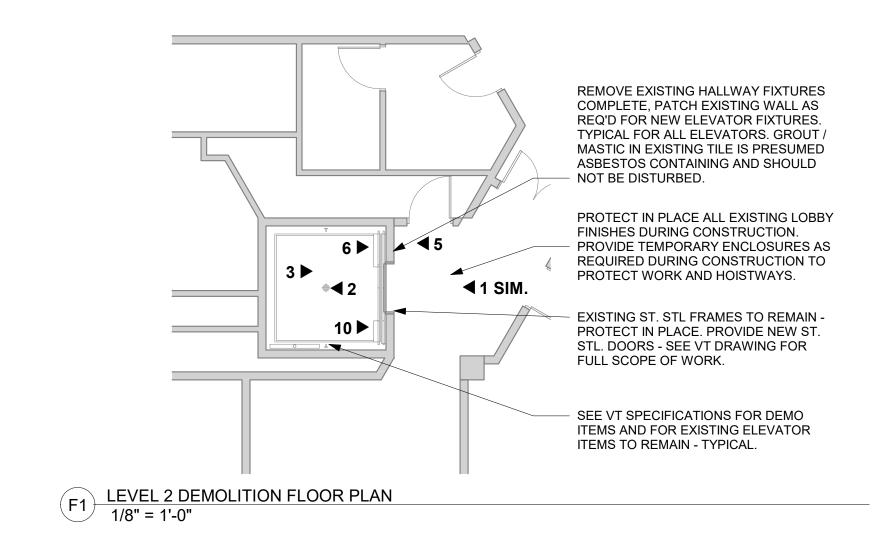
Sheet Number

AG002.1





1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 21 | 22 | 23 | 24 | 25



REMOVE EXISTING HALLWAY FIXTURES

COMPLETE, PATCH EXISTING WALL AS

REQ'D FOR NEW ELEVATOR FIXTURES.

TYPICAL FOR ALL ELEVATORS. GROUT /

MASTIC IN EXISTING TILE IS PRESUMED

PROTECT IN PLACE ALL EXISTING LOBBY

PROVIDE TEMPORARY ENCLOSURES AS

REQUIRED DURING CONSTRUCTION TO

- EXISTING ST. STL FRAMES TO REMAIN -

STL. DOORS - SEE VT DRAWING FOR

SEE VT SPECIFICATIONS FOR DEMO

ITEMS AND FOR EXISTING ELEVATOR

ITEMS TO REMAIN - TYPICAL.

FULL SCOPE OF WORK.

PROTECT IN PLACE. PROVIDE NEW ST.

FINISHES DURING CONSTRUCTION.

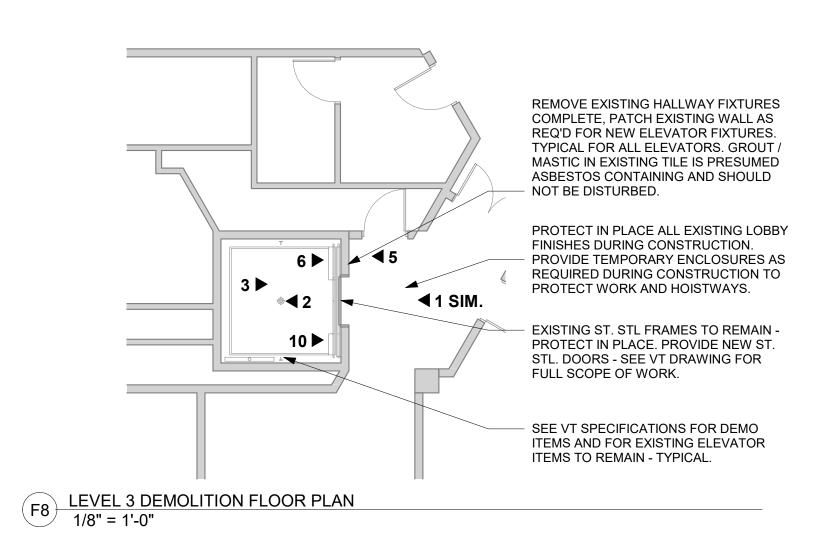
PROTECT WORK AND HOISTWAYS.

ASBESTOS CONTAINING AND SHOULD

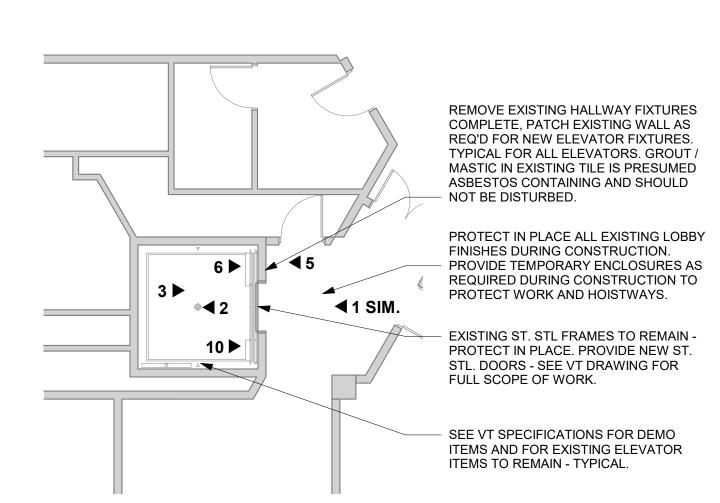
NOT BE DISTURBED.

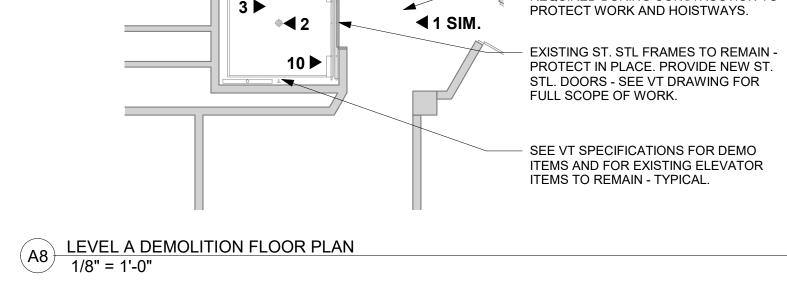
**◀** 1 SIM.

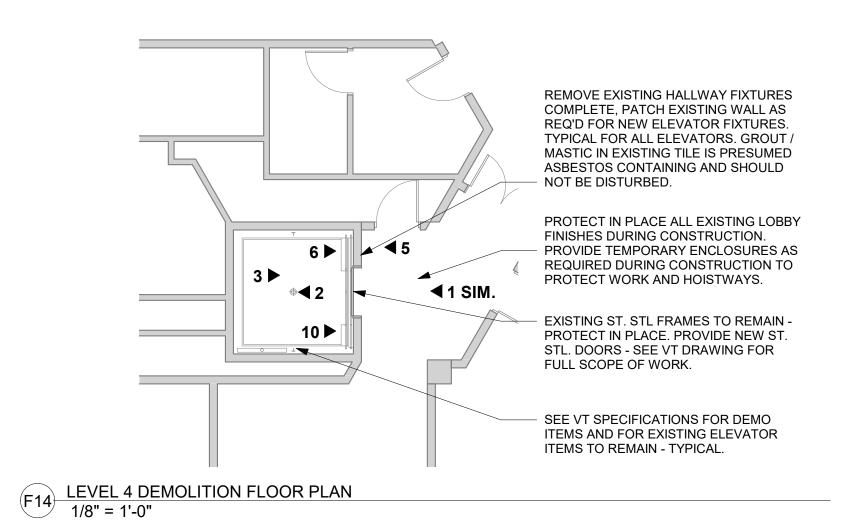
A1 LEVEL B. DEMOLITION FLOOR PLAN
1/8" = 1'-0"

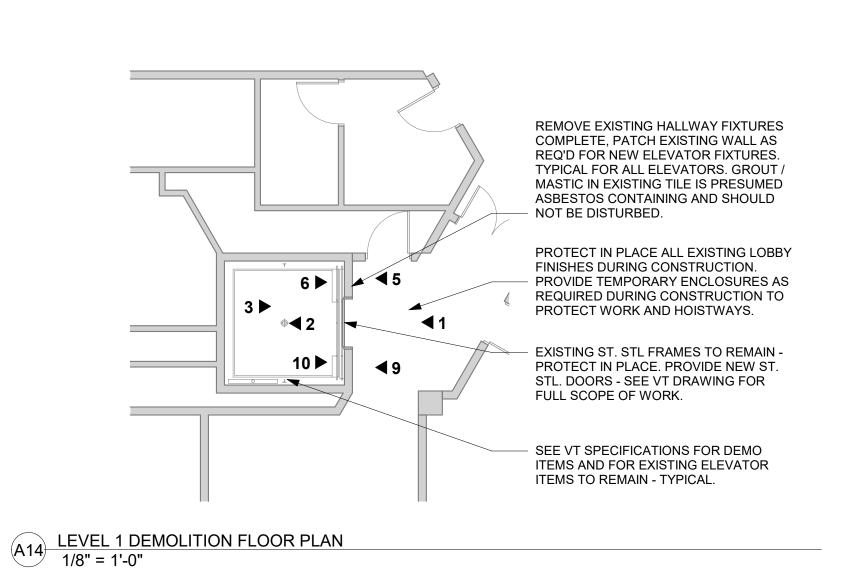


1/8" = 1'-0"











- 1. IDENTIFICATION AND/OR ABATEMENT OF HAZARDOUS MATERIALS IS NOT PART OF THIS SCOPE OF WORK. IF ASBESTOS OR OTHER HAZARDOUS
- MATERIALS ARE ENCOUNTERED. THE CONTRACTOR SHALL NOTIFY THE CM IMMEDIATELY. 2. REMOVE LOOSE PAINT AND MISCELLANEOUS HANGING OBJECTS
- FROM WALLS AND CEILINGS AT ALL AREAS TO RECEIVE NEW FINISHES. 3. OPENING IN THE EXISTING STRUCTURE SMALLER THAN 12" IN ANY DIRECTION ARE NOT IDENTIFIED ON THESE DRAWINGS. SUB-CONTRACTORS SHALL BE RESPONSIBLE FOR PROVIDING OPENINGS SMALLER THAN 12" AS REQUIRED FOR INSTALLATION
- OF THEIR WORK. 4. OPENINGS IN THE EXISTING STRUCTURE SHALL NOT BE MADE WITHOUT PRIOR APPROVAL OF THE STRUCTURAL ENGINEER. FLOOR SLABS AND WALL SURFACES
- 5. PATCH AND REPAIR ALL EXISTING DAMAGED FROM DEMOLITION OR PRIOR USE. 6. PATCH ALL AREAS OF ELECTRICAL
- AND MECHANICAL DEMOLITION THAT WILL NOT BE REUSED. 7. CONTRACTOR TO FIELD VERIFY ALL EXISTING DIMENSIONS AND CONDITIONS. IN THE EVENT OF A DISCREPANCY BETWEEN THE DRAWINGS AND THE EXISTING
- CONDITIONS, NOTIFY THE ARCHITECT BEFORE PROCEEDING. 8. DO NOT REMOVE ANY ITEMS WHICH JEOPARDIZE THE STRUCTURAL INTEGRITY OF THE BUILDING. IF HIDDEN ELEMENTS OR DETERIORATED ELEMENTS ARE ENCOUNTERED, NOTIFY THE ARCHITECT IMMEDIATELY. 9. EXISTING BUILDING IS TO REMAIN
- DEMOLITION ACTIVITIES. 10. REFER TO CONSULTANT DRAWINGS FOR ADDITIONAL DEMOLITION OF

WEATHER-TIGHT DURING ALL

- OTHER DISCIPLINES. 11. PROTECT ALL ADJACENT AREAS AND ITEMS "TO REMAIN" DURING DEMOLITION/CONSTRUCTION.
- REPAIR/REPLACE ALL ITEMS DAMAGED DURING CONSTRUCTION. 12. EXISTING BUILDING CONDITIONS SHOWN ON THESE DRAWINGS ARE
- DERIVED FROM DRAWINGS OF THE ORIGINAL BUILDING AND FROM LIMITED FIELD OBSERVATION. 13. INDICATED EXISTING BUILDING CONDITIONS ARE ASSUMED TO BE

REPRESENTATIVE OF THE ACTUAL

- CONSTRUCTION OF THE BUILDING. LOCAL CONDITIONS MAY VARY. 14. THE CONTRACTOR SHALL PROVIDE AND MAINTAIN ADDITIONAL MEANS OF EGRESS AS NEEDED AS A RESULT OF CONSTRUCTION SEQUENCING AND/OR
- REGULATORY REQUIREMENTS. 15. ALL PENETRATIONS IN FIRE RATED FLOORS AND WALLS MUST BE SEALED WITH APPROPRIATE FIRESTOPING
- 16. ELEVATOR SHAFT AND ELEVATOR MACHINE ROOM ARE 2-HOUR FIRE RESISTANCE RATED.

#### **DEMOLITION LEGEND**

DENOTES FLOOR AREA REQUIRING PROTECTION DURING CONSTRUCTION

MODIFIED

DENOTES EQUIPMENT OR BUILDING ELEMENT TO BE DEMOLISHED AND/OR

100 Court Ave., Suite 100

P: 515-309-0722 www.opnarchitects.com All reports, plans, specifications, computer files, field data, notes and other documents and instruments prepared by OPN Architects, Inc. as instruments of service shall remain the property of OPN Architects, Inc., OPN Architects, Inc. shall retain all common law, statutory and other reserved

Des Moines, IA 50309

rights, including the copyright thereto. © 2025 OPN Architects, Inc. Owner STATE OF IOWA

109 SE 13TH STREET

DES MOINES, IA 50319

HOOVER BUILDING ELEVATOR MOD.

1305 E. Walnut Street DES MOINES, IA 50319

CONSTRUCTION MANAGER DCI GROUP 220 SE 6TH STREET, SUITE 200 DES MOINES, IA 50309

ELEVATOR CONSULTANT LERCH BATES 7625 GOLDEN TRIANGLE DRIVE, EDEN PRAIRIE, MN 55344

Mechanical Engineer KCL ENGINEERING 300 4TH STREET WEST DES MOINES, IA 50317

Electrical Engineer KCL ENGINEERING 300 4TH STREET WEST DES MOINES, IA 50317

Key Plan

Revision Description

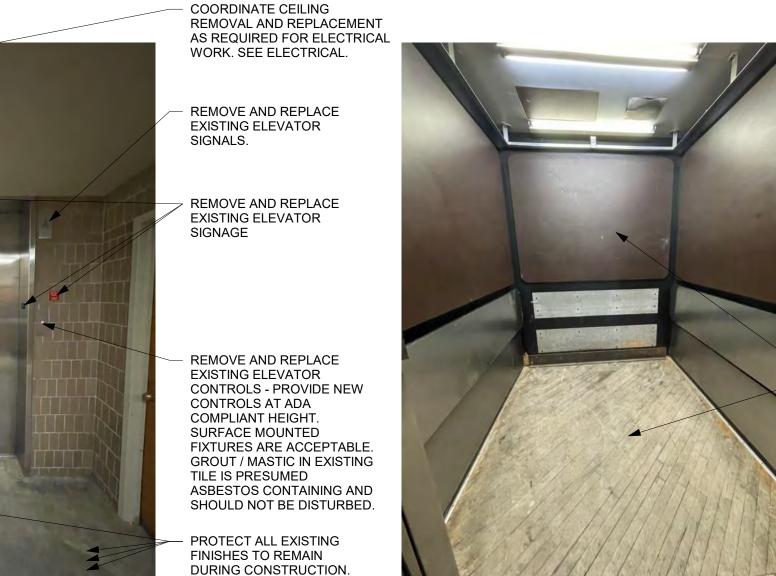
OPN Project No. 24850000

Sheet Issue Date

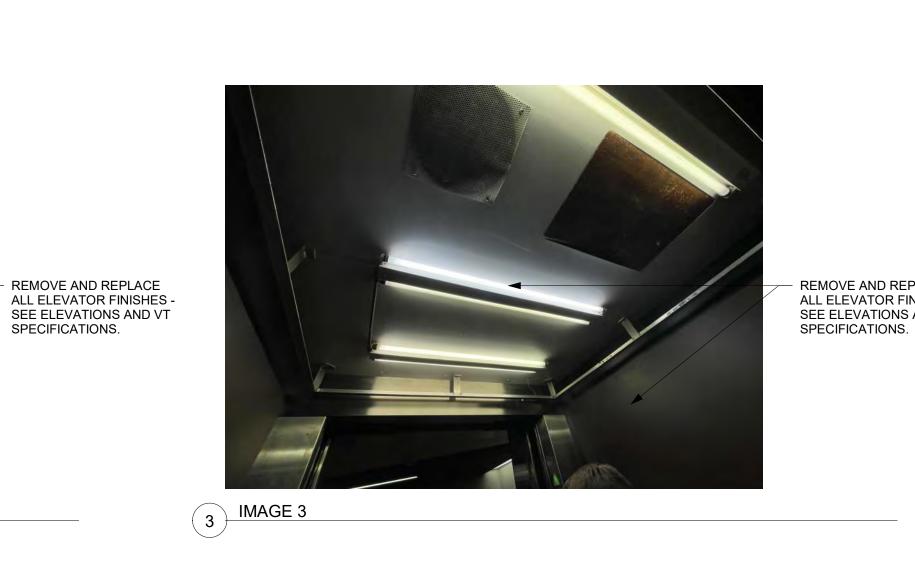
Sheet Name **DEMO FLOOR PLANS** 

Sheet Number

AD100.1

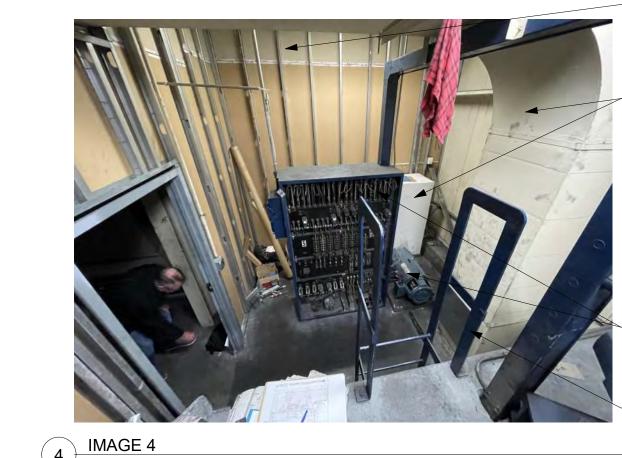


2 IMAGE 2



SPECIFICATIONS.

1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 21 | 22 | 23 | 24 | 25



OF NEW 2-HOUR RATED WALL CONSTRUCTION - SEE PLANS FOR DETAILS / CONFIGURATION. SEE NEW PENTHOUSE PLANS FOR RECONFIGURATION OF SPACE TO SEPARATE OUT NON RELATED ELEVATOR ITEMS FROM THE ELEVATOR MACHINE ROOM. REMOVE AND REPLACE EXISTING **ELEVATOR EQUIPMENT COMPLETE -**

SEE VT SPECIFICATIONS.

EXISTING WALL TO REMAIN AS PART

EXISTING LADDER TO REMAIN.

REMOVE AND REPLACE

ALL ELEVATOR FINISHES -

SEE ELEVATIONS AND VT

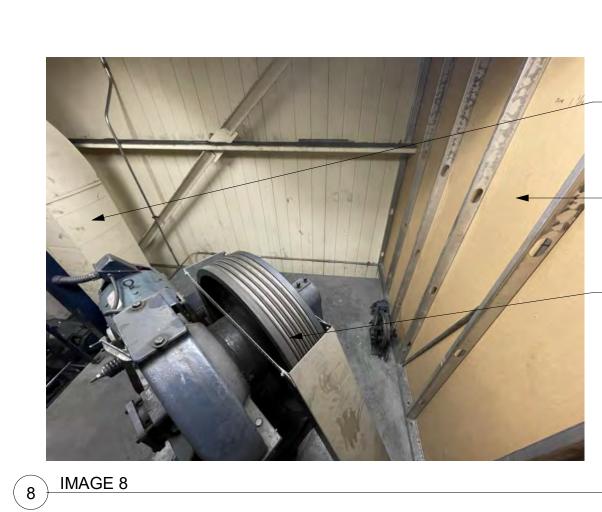


REMOVE AND REPLACE EXISTING ELEVATOR SIGNAGE REMOVE AND REPLACE EXISTING ELEVATOR CONTROLS - PROVIDE NEW CONTROLS AT ADA COMPLIANT HEIGHT. SURFACE MOUNTED FIXTURES ARE ACCEPTABLE. GROUT / MASTIC IN EXISTING TILE IS PRESUMED ASBESTOS CONTAINING AND SHOULD NOT BE DISTURBED.

6 IMAGE 6

REMOVE, SALVAGE AND REINSTALL CARD ACCESS CONTROL. PROVIDE PATHWAYS AS REQUIRED FOR REINSTALLATION IN NEW ELEVATOR CAB. PROVIDE NEW FULLY INTEGRATED CONTROL PANEL -SEE VT SPECIFICATIONS FOR FULL REQUIREMENTS. EXISTING FLOOR DESIGNATIONS FOR HOOVER BUILDING. PRIMARY SERVICE FLOOR ACCESS. REMOVE AND REPLACE ALL ELEVATOR FINISHES -SEE ELEVATIONS.

 DEMO EXISTING ELEVATOR EQUIPMENT -SEE VT SPECIFICATIONS FOR FULL SCOPE OF WORK. SEE ELECTRICAL FOR DETECTION REQUIREMENTS. - EXISTING SHAFT AND RAILS TO REMAIN - SEE VT SPECIFICATIONS FOR FULL SCOPE.



ELEVATOR ITEMS FROM THE ELEVATOR MACHINE ROOM. EXISTING WALL TO REMAIN AS PART OF NEW 2-HOUR RATED WALL CONSTRUCTION - SEE PLANS FOR DETAILS / CONFIGURATION.

SEE NEW PENTHOUSE PLANS FOR RECONFIGURATION OF SPACE TO

SEPARATE OUT NON RELATED

REMOVE AND REPLACE EXISTING

**ELEVATOR EQUIPMENT COMPLETE -**

SEE VT SPECIFICATIONS.

9 IMAGE 9

REQUIRED.

EXISTING INTERCOM TO REMAIN. PROTECT DURING CONSTRUCTION - NO WORK

INTEGRATED CONTROL PANEL -SEE VT SPECIFICATIONS FOR

 DEMO EXISTING ELEVATOR EQUIPMENT -SEE VT SPECIFICATIONS FOR FULL - CAP EXISTING DRAIN LOCATED IN ELEVATOR EXISTING SHAFT AND RAILS TO REMAIN - SEE VT SPECIFICATIONS FOR FULL LADDER COMPLETE AND PROVIDE NEW - SEE VT

SCOPE OF WORK.

PIT - SEE PLUMBING

DRAWINGS.

SCOPE.

- REMOVE EXISTING

SPECIFICATIONS.

EXISTING WALL TO REMAIN AS PART OF NEW 2-HOUR RATED WALL CONSTRUCTION - SEE PLANS FOR DETAILS / CONFIGURATION. - EXISTING ELECTRICAL LINES LOCATED IN CEILING SPACE OF MACHINE ROOM. SEE NEW PENTHOUSE PLANS FOR NEW CEILING WORK. RELOCATE ALL SENSORS TO CEILING AS REQUIRED - SEE ALSO ELECTRICAL. REMOVE AND REPLACE EXISTING LIGHTING COMPLETE - SEE ELECTRICAL DRAWINGS. SEE MECHANICAL FOR UPDATED MACHINE ROOM COOLING - PATCH ALL EXISTING OPENINGS IN MACHINE ROOM WALLS.

PROVIDE NEW FULLY

FULL REQUIREMENTS.

REMOVE AND REPLACE
 ALL ELEVATOR FINISHES SEE ELEVATIONS.

OPN Project No. 24850000

Sheet Issue Date

Key Plan

Revision Description

Sheet Name

100 Court Ave., Suite 100 Des Moines, IA 50309 P: 515-309-0722

www.opnarchitects.com

rights, including the copyright thereto.

© 2025 OPN Architects, Inc.

STATE OF IOWA

109 SE 13TH STREET DES MOINES, IA 50319

1305 E. Walnut Street

DES MOINES, IA 50319

CONSTRUCTION MANAGER

DES MOINES, IA 50309

220 SE 6TH STREET, SUITE 200

7625 GOLDEN TRIANGLE DRIVE,

EDEN PRAIRIE, MN 55344

WEST DES MOINES, IA 50317

WEST DES MOINES, IA 50317

DCI GROUP

ELEVATOR CONSULTANT

LERCH BATES

Mechanical Engineer

KCL ENGINEERING

KCL ENGINEERING 300 4TH STREET

300 4TH STREET

Electrical Engineer

SUITE T

Owner

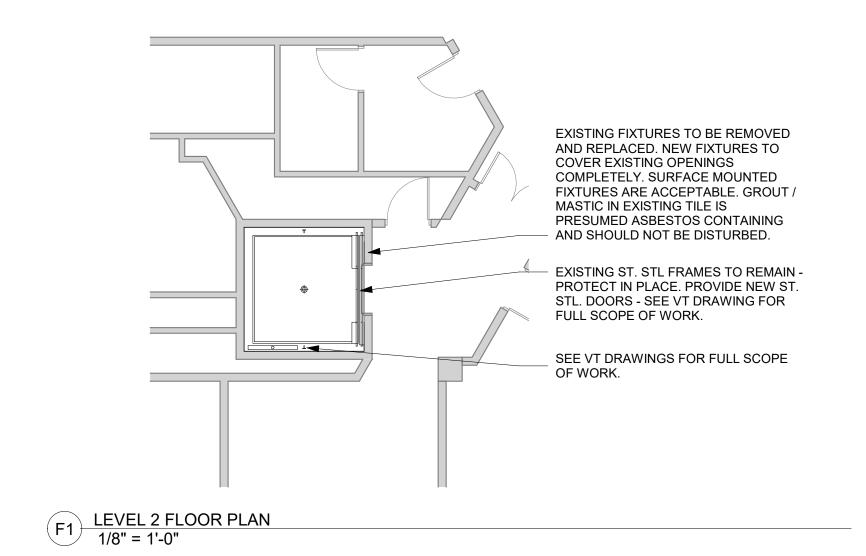
All reports, plans, specifications, computer files, field data, notes and other documents and instruments prepared by OPN Architects, Inc. as instruments of service shall remain the property of OPN Architects, Inc. OPN Architects, Inc. shall retain all common law, statutory and other reserved

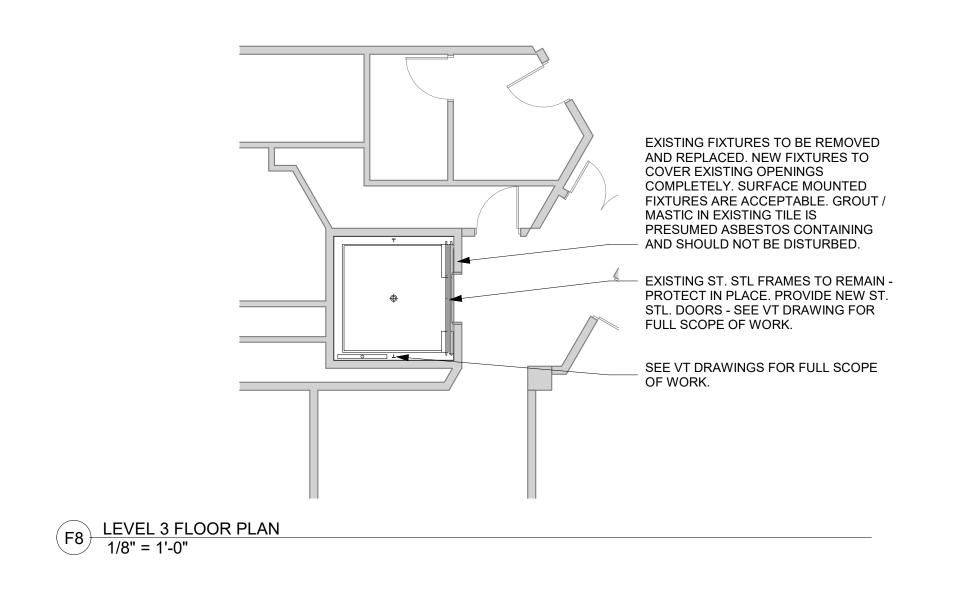
HOOVER BUILDING ELEVATOR MOD.

Sheet Number

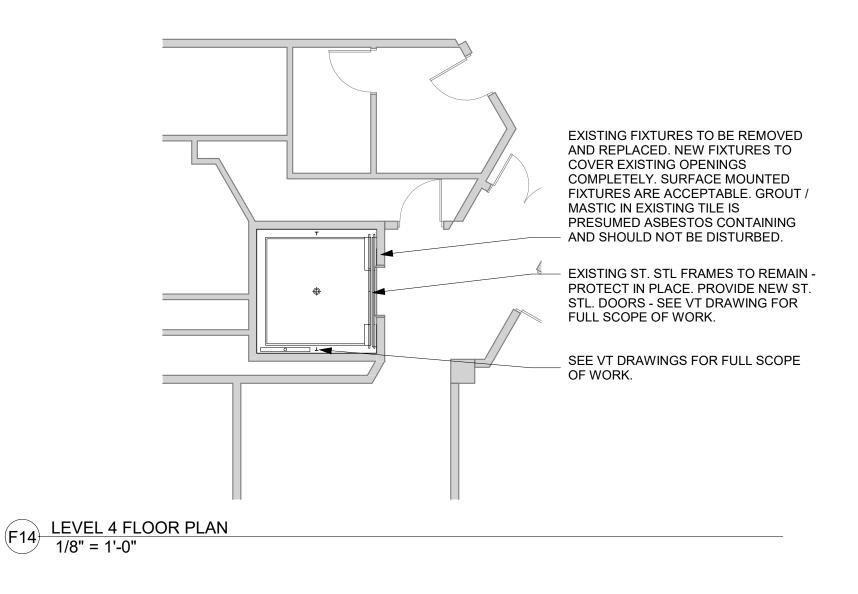
**EXISTING CONDITIONS** 

AD200.1





1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 21 | 22 | 23 | 24 | 25



STAINLESS STEEL

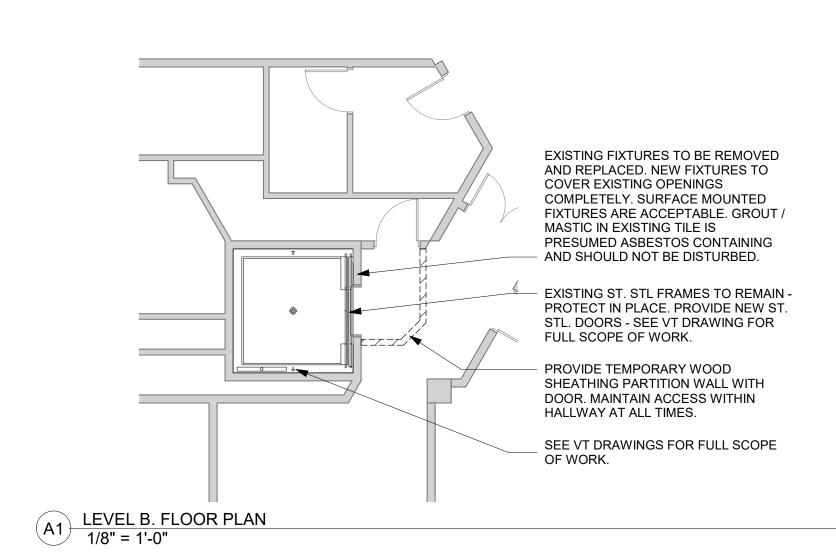
LINEAR LED RECESSED

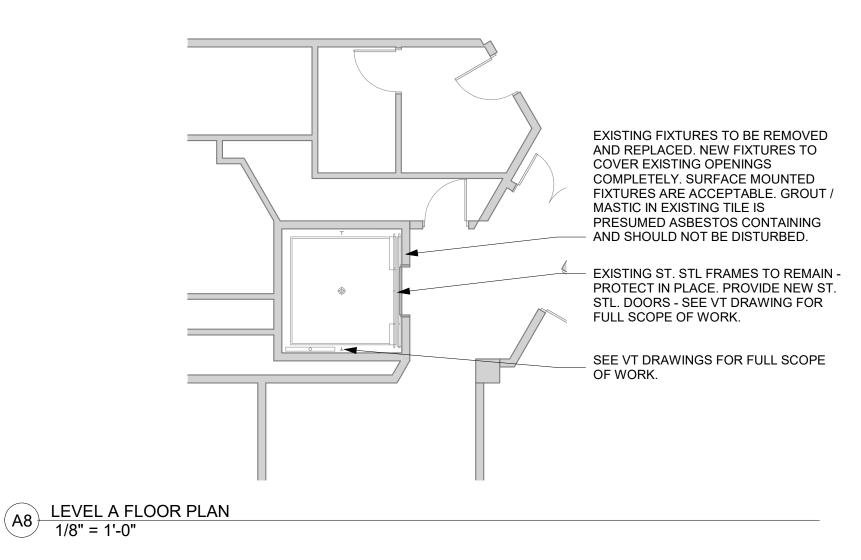
DROP CEILING

LIGHT FIXTURE

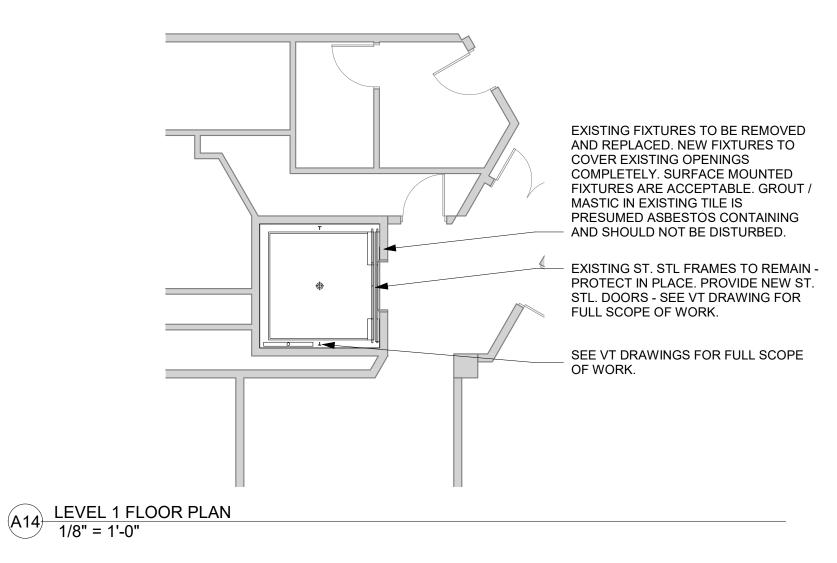
- CAB EXTERIOR

PERIMETER REVEAL





1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 25



**GENERAL NOTES** 

1. DIMENSIONS ARE MEASURED FACE-OF-FINISH TO FACE-OF-FINISH OR ROUGH MASONRY OPENING UNLESS

NOTED OTHERWISE - TYPICAL FOR ALL DRAWINGS. 2. FIELD VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS - TYPICAL FOR

ALL DRAWINGS. 3. IN THE EVENT OF A DISCREPANCY BETWEEN ARCHITECTURAL AND CONSULTANT DRAWINGS, NOTIFY ARCHITECT IMMEDIATELY PRIOR TO

COMMENCING WORK - TYPICAL FOR ALL DRAWINGS. 4. ALL PENETRATIONS IN FIRE RATED FLOORS AND WALLS MUST BE SEALED WITH APPROPRIATE FIRESTOPPING SYSTEM.

5. PATCH AND REPAIR EXISTING FLOOR SLABS AND WALL SURFACES DAMAGED FROM DEMOLITION. 6. ALL ROOF PENETRATIONS MUST FOLLOW ROOF MANUFACTURERS

DETAILS AND MAINTAIN ROOFING WARRANTY. 7. ELEVATOR SHAFT AND ELEVATOR MACHINE ROOM ARE 2-HOUR FIRE

RESISTANCE RATED. 8. MAINTAIN ALL EXISTING CONDITIONS THAT ARE TO REMAIN. CONTRACTOR TO PROVIDE NECESSARY MEASURES TO PROTECT IN PLACE ALL EXISTING FINISHES.

P: 515-309-0722

www.opnarchitects.com

rights, including the copyright thereto.

© 2025 OPN Architects, Inc.

STATE OF IOWA

109 SE 13TH STREET

DES MOINES, IA 50319

1305 E. Walnut Street

CONSTRUCTION MANAGER

ELEVATOR CONSULTANT

**LERCH BATES** 

Mechanical Engineer

Electrical Engineer

KCL ENGINEERING 300 4TH STREET

KCL ENGINEERING

300 4TH STREET

SUITE T

DES MOINES, IA 50309

220 SE 6TH STREET, SUITE 200

7625 GOLDEN TRIANGLE DRIVE,

EDEN PRAIRIE, MN 55344

WEST DES MOINES, IA 50317

WEST DES MOINES, IA 50317

**DCI GROUP** 

DES MOINES, IA 50319

Owner

100 Court Ave., Suite 100 Des Moines, IA 50309

All reports, plans, specifications, computer files, field data,

notes and other documents and instruments prepared by

OPN Architects, Inc. as instruments of service shall remain the property of OPN Architects, Inc. OPN Architects, Inc.

shall retain all common law, statutory and other reserved

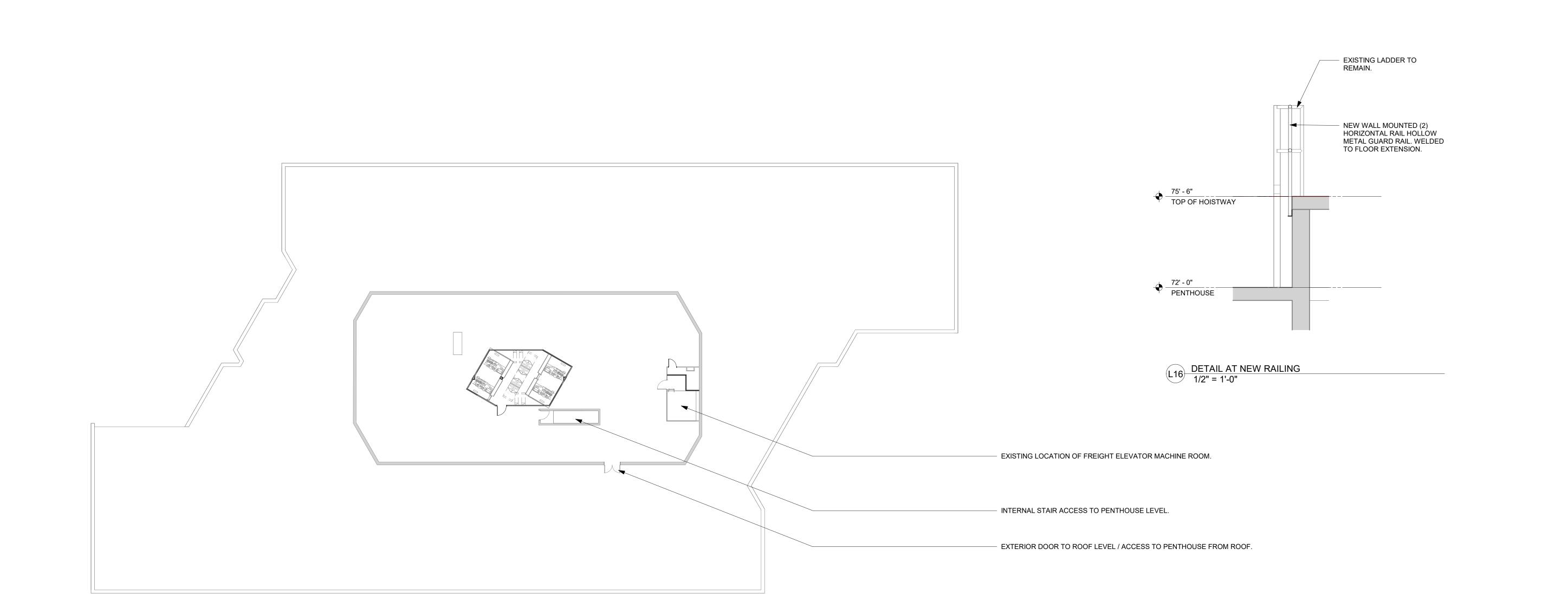
HOOVER BUILDING ELEVATOR MOD.

A100.1

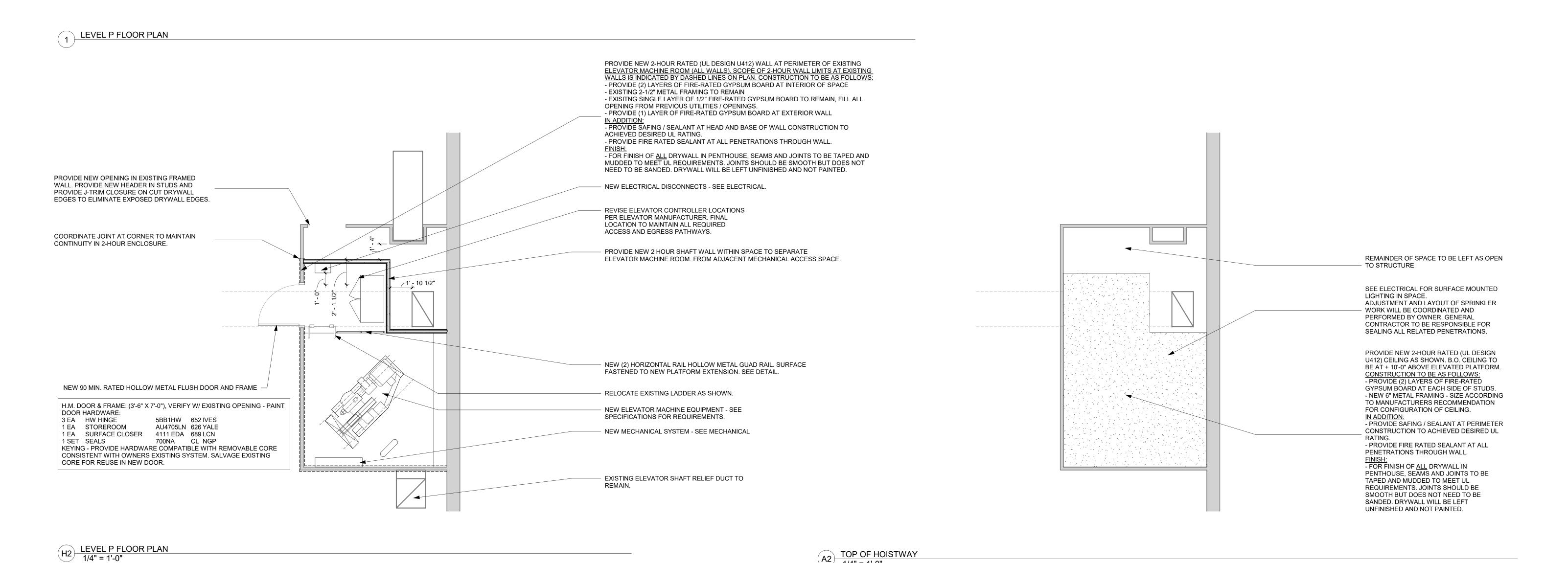
Key Plan

Revision Description

**FLOOR PLANS & DETAILS** 



1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 21 | 22 | 23 | 24 | 25



A2 TOP OF HOISTWAY
1/4" = 1'-0"

**GENERAL NOTES** 

1. DIMENSIONS ARE MEASURED FACE-OF-FINISH TO FACE-OF-FINISH OR ROUGH MASONRY OPENING UNLESS

NOTED OTHERWISE - TYPICAL FOR ALL DRAWINGS. 2. FIELD VERIFY ALL DIMENSIONS AND **EXISTING CONDITIONS - TYPICAL FOR** 

ALL DRAWINGS. 3. IN THE EVENT OF A DISCREPANCY BETWEEN ARCHITECTURAL AND CONSULTANT DRAWINGS, NOTIFY ARCHITECT IMMEDIATELY PRIOR TO COMMENCING WORK - TYPICAL FOR

ALL DRAWINGS. 4. ALL PENETRATIONS IN FIRE RATED FLOORS AND WALLS MUST BE SEALED WITH APPROPRIATE FIRESTOPPING SYSTEM.

5. PATCH AND REPAIR EXISTING FLOOR SLABS AND WALL SURFACES DAMAGED FROM DEMOLITION. 6. ALL ROOF PENETRATIONS MUST

FOLLOW ROOF MANUFACTURERS DETAILS AND MAINTAIN ROOFING WARRANTY. 7. ELEVATOR SHAFT AND ELEVATOR MACHINE ROOM ARE 2-HOUR FIRE

RESISTANCE RATED. 8. MAINTAIN ALL EXISTING CONDITIONS THAT ARE TO REMAIN. CONTRACTOR TO PROVIDE NECESSARY MEASURES TO PROTECT IN PLACE ALL EXISTING FINISHES.

100 Court Ave., Suite 100 Des Moines, IA 50309 P: 515-309-0722

www.opnarchitects.com All reports, plans, specifications, computer files, field data, notes and other documents and instruments prepared by OPN Architects, Inc. as instruments of service shall remain the property of OPN Architects, Inc. OPN Architects, Inc. shall retain all common law, statutory and other reserved rights, including the copyright thereto. © 2025 OPN Architects, Inc.

Owner STATE OF IOWA 109 SE 13TH STREET DES MOINES, IA 50319

HOOVER BUILDING ELEVATOR MOD. 1305 E. Walnut Street DES MOINES, IA 50319

CONSTRUCTION MANAGER **DCI GROUP** 220 SE 6TH STREET, SUITE 200

DES MOINES, IA 50309 ELEVATOR CONSULTANT

**LERCH BATES** 7625 GOLDEN TRIANGLE DRIVE, SUITE T EDEN PRAIRIE, MN 55344

Mechanical Engineer

KCL ENGINEERING 300 4TH STREET WEST DES MOINES, IA 50317

Electrical Engineer KCL ENGINEERING 300 4TH STREET WEST DES MOINES, IA 50317

Key Plan

24850000

Sheet Name PENTHOUSE PLANS

Sheet Number

A101.1

# **MECHANICAL - GENERAL NOTES**

- 1. COORDINATE MECHANICAL AND ELECTRICAL WORK WITH ALL OTHER TRADES. BEGIN INSTALLATION AND ROUGH-IN AFTER COORDINATION WITH ALL TRADES ASSOCIATED WITH THE INSTALLATION IS COMPLETE. COORDINATE BUILDING STRUCTURE, ARCHITECTURAL ASSEMBLIES, SHEET METAL, ALL PIPING SYSTEMS, LIGHT FIXTURES, CONDUITS, CABLE TRAYS, ETC. REFER TO ALL GENERAL, MECHANICAL, AND ELECTRICAL DRAWINGS AND SPECIFICATIONS FOR THIS PROJECT. CONTRACTOR IS RESPONSIBLE FOR REWORK ASSOCIATED WITH FAILURE TO COORDINATE.
- INCORPORATE MECHANICAL SPECIFICATIONS, DRAWINGS, STATE AND LOCAL CODES, AND OWNER STANDARDS INTO WORK.
- EACH TRADE IS RESPONSIBLE FOR MAKING PENETRATIONS WHERE REQUIRED IN EXISTING WALLS, FLOORS, CEILINGS, AND ROOFS. MAKE PENETRATIONS NEAT. PATCH, CONCEAL, OR CAULK OVERCUT.
- COVER EXPOSED WALL PENETRATIONS WITH ESCUTCHEONS OR SHEET METAL AS
- CAULK ALL CONCEALED AND EXPOSED PIPING AND DUCT WALL PENETRATIONS TO PREVENT NOISE TRANSFER BETWEEN SPACES.
- ON COMPLETION OF THE INSTALLATION, COOPERATE WITH THE OWNER TO PROVIDE TESTING, ADJUSTING, AND BALANCING TO OBTAIN PROPER OPERATION OF ALL EQUIPMENT AND SYSTEMS. PROVIDE ALL FACILITIES AND EQUIPMENT AND COMPLETE ALL TESTS REQUIRED FOR ADJUSTMENTS AND BALANCING TO ESTABLISH THE PROPER PERFORMANCE OF EQUIPMENT.

#### **MECHANICAL** – DEMOLITION NOTES

- MECHANICAL DEMOLITION DRAWINGS SHOWING EXISTING CONDITIONS HAVE BEEN PREPARED BASED ON NON-DESTRUCTIVE FIELD OBSERVATION AND AS-BUILT DRAWINGS PROVIDED BY THE OWNER. FIELD VERIFY EXISTING SYSTEMS BEFORE BEGINNING WORK. NOTIFY ARCHITECT/ENGINEER IF EXISTING CONDITIONS ARE MATERIALLY DIFFERENT THAN THOSE SHOWN ON THE PLANS.
- BE FAMILIAR WITH EXISTING MECHANICAL SYSTEMS THAT WILL BE AFFECTED BY THE DEMOLITION WORK. OBTAIN PERMISSION FROM THE OWNER'S REPRESENTATIVE TO SHUT OFF SERVICES OR SYSTEMS THAT AFFECT AREAS BEYOND THE LIMITS OF THE IMMEDIATE DEMOLITION AREA. INFORM THE OWNER'S REPRESENTATIVE OF THE REASON FOR AND DURATION OF THE SHUTDOWN. MINIMIZE IMPACT TO OTHER AREAS. PROCEED WITH THE SHUT-DOWN AFTER PERMISSION FROM THE OWNER IS GRANTED.
- REMOVE PIPING, HANGERS, DUCTWORK, GRILLES, REGISTERS, DIFFUSERS, ETC. THAT ARE INDICATED TO BE REMOVED IN A TIMELY MANNER IN ACCORDANCE WITH THE GENERAL DEMOLITION SPECIFICATIONS. COORDINATE WITH THE OWNER AND OTHER CONTRACTORS.

EXTEND EXISTING SIEMENS CONTROL SYSTEM AS REQUIRED FOR ADDITIONAL SENSOR NEAR ELEVATOR EQUIPMENT.

#### SPLIT SYSTEM INDOOR UNIT SCHEDULE REFERENCE MANUFACTURER **MITSUBISHI** MODEL# PKA-A24 WALL MOUNT **SERVES HOOVER PENTHOUSE** WEIGHT (LBS) DIMENSIONS - L x W x D (INCHES) 46x14x11 **NOMINAL CAPACITY (TONS)** MAX UNIT AIRFLOW (CFM) EXTERNAL STATIC PRESSURE (IN. W.G.) 0.2 24,000 COOLING CAPACITY - RATED (BTU/H) 21.1 REFRIGERANT TYPE R454B **VOLTAGE - PH** 208 - 1 **ELECTRICAL DATA** MCA 1.00 MOCP SEE SSO SCHEDULE NOTES 1 THROUGH 5

## 1. PROVIDE WITH REMOTE WALL MOUNTED THERMOSTAT. WIRING BY M.C.

- 2. INDOOR UNIT RECEIVES POWER FROM OUTDOOR UNIT BY INTERCONNECTED WIRING PROVIDED WITH UNIT, WIRING INSTALLATION AND DISCONNECT BY E.C.
- 3. COOLING RATED CAPACITY IS BASED ON THE FOLLOWING CONDITIONS. INDOOR: 80°F/67°FF, OUTDOOR: 95°F/75°F 4. PROVIDE FILTER WITH UNIT.
- 5. UNIT IS COOLING ONLY.

SPLIT SYSTEM OUTDOOR UNIT SCHEDULE				
REFERENCE	SSO-1			
MANUFACTURER	MITSUBISHI			
MODEL#	PUY-A24NHA7			
SERVES	SSI-1			
WEIGHT (LBS)	151			
DIMENSIONS W/ CURB & ACCESSORIES - L x W x H (INCHES)	37x37x13			
NOMINAL CAPACITY (TONS)	2.00			
COOLING CAPACITY - RATED (BTU/H)	24,000			
REFRIGERANT TYPE	R454B			
COMPRESSOR QUANTITY	1			
EFFICIENCY				
SEER	21.1			
ELECTRICAL DATA				
VOLTAGE - PH	208 - 1			
MCA	22			
MOCP	37			
NOTES	1,2,3,4			

- 1. DISCONNECT SHALL BE PROVIDED / INSTALLED BY E.C.
- 2. PROVIDE WITH FLOOR STAND BY UNIT MFR TO SIT ON FLOOR AS SHOWN. 3. REFER TO SPLIT SYSTEM INDOOR UNIT SCHEDULE FOR CAPACITY RATING CONDITIONS.
- 4. SYSTEM REQUIRES LOW AMBIENT AIR COOLING OPERATION (-20 °F), PROVIDE LOW AMBIENT WIND BAFFLES.

#### **ELECTRICAL ABBREVIATIONS**

A DEVICE MOUNTED +8" ABOVE NIC NOT IN CONTRACT COUNTER TOP (VERIFY LOCATION) NM NONMETALLIC AFF ABOVE FINISHED FLOOR NTS NOT TO SCALE ATS AUTOMATIC TRANSFER SWITCH OC ON CENTER OFCI OWNER FURNISHED CEILING CIRCUIT BREAKER

1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 |

CURRENT TRANSFORMER **EXISTING ITEM TO REMAIN** ELECTRICAL CONTRACTOR EMERGENCY LIGHT FIXTURE NEW LOCATION OF EXISTING ITEM ROUGH IN FOR FUTURE DEVICE FAAP FIRE ALARM ANNUNCIATOR PANEL

FSD FIRE SMOKE DAMPER

KVA KILO-VOLT-AMPERES

GND GROUND

KW KILOWATTS

- CONTRACTOR INSTALLED OFOL OWNER FURNISHED. OWNER INSTALLED EXISTING ITEM TO BE REMOVED EXISTING ITEM TO BE REMOVED AND RELOCATED
- RN EXISTING ITEM TO BE REMOVED AND REPLACED WITH NEW FACP FIRE ALARM CONTROL PANEL SCCR SHORT CIRCUIT CURRENT RATING TAMPER PROOF DEVICE GROUND FAULT CIRCUIT INTERRUPTER TCC TEMPERATURE CONTROL CONTRACTOR
- TELEVISION TYP TYPICAL UPS UNINTERRUPTIBLE POWER SUPPLY MC MECHANICAL CONTRACTOR VOLTS VA VOLT-AMPERES
- MCB MAIN CIRCUIT BREAKER MDP MAIN DISTRIBUTION PANEL WIREGUARD COVER MLO MAIN LUGS ONLY WEATHERPROOF DEVICE WEATHER RESISTANT DEVICE N NEW DEVICE IN EXISTING LOCATION WR +24" INDICATES MOUNTING HEIGHT CENTER LINE OF DEVICE TO FINISHED FLOOR

#### **GENERAL NOTES - ELECTRICAL**

- COORDINATE LOCATION/INSTALLATION OF MECHANICAL AND ELECTRICAL WORK WITH ALL OTHER TRADES. BEGIN INSTALLATION AND ROUGH-IN ONLY AFTER PROPER AND TIMELY COORDINATION WITH ALL TRADES ASSOCIATED WITH THE INSTALLATION IS COMPLETE. COORDINATE WITH BUILDING STRUCTURE, ARCHITECTURE, MECHANICAL SHEET METAL, ALL PIPING SYSTEMS, LIGHT FIXTURES, CONDUITS, CABLE TRAYS, EQUIPMENT ACCESS/CLEARANCE, ETC. REFER TO ALL GENERAL, MECHANICAL, AND ELECTRICAL DRAWINGS AND SPECIFICATIONS FOR THIS PROJECT. CONTRACTOR IS RESPONSIBLE FOR REWORK OF INSTALLED EQUIPMENT RESULTING FROM INSUFFICIENT COORDINATION.
- ELECTRICAL DRAWINGS ARE ONLY A PORTION OF THE COMPLETE SET OF PLANS AND CONTRACT DOCUMENTS. THE ELECTRICAL SCOPE OF WORK IS DEFINED BY THE COMPLETE SET OF CONTRACT DOCUMENTS. THIS INCLUDES BUT IS NOT LIMITED TO REFERENCING; ARCHITECTURAL PLANS FOR DIMENSIONS AND DETAILS; EQUIPMENT PLANS FOR ROUGH-IN REQUIREMENTS, MECHANICAL PLANS FOR EQUIPMENT SIZES AND LOCATIONS.

## **INSTALLATION NOTES - ELECTRICAL**

- INCREASE CONDUCTOR SIZES ON 20A 120V-1 PHASE CIRCUITS EXCEEDING 100 FEET TO CENTER OF LOAD TO ACCOUNT FOR VOLTAGE DROP.
- RACEWAYS AND BOXES ARE SHOWN DIAGRAMMATICALLY ONLY AND INDICATE GENERAL AND APPROXIMATE LOCATIONS. LAYOUTS DO NOT ALWAYS SHOW THE TOTAL NUMBER OF RACEWAYS OR BOXES FOR THE CIRCUITS REQUIRED, NOR ARE THE LOCATIONS OF INDICATED RUNS INTENDED TO SHOW THE ACTUAL ROUTING OF THE RACEWAYS.
- LIGHT FIXTURES, SWITCHES, DEVICES, ETC. ARE SHOWN IN PREFERRED LOCATION. MODIFY CONDUIT, HANGERS, CIRCUITING, ETC. TO PROVIDE A COMPLETE AND OPERATIONAL SYSTEM.
  - PROVIDE A DEDICATED GREEN INSULATED GROUND CONDUCTOR TO ALL DEVICES. DO NOT USE CONDUIT SYSTEM AS THE ONLY EQUIPMENT GROUNDING METHOD.
- PROVIDE TYPED PANEL DIRECTORY AT PROJECT COMPLETION FOR NEW PANELS AND EXISTING PANELS WITH CIRCUITS MODIFIED DURING PROJECT. USE OWNER'S CURRENT ROOM NUMBERS AND EQUIPMENT NAMES. PROVIDE UNIQUE CIRCUIT IDENTIFICATION PER NEC 408.4(A)
- 6. CONTRACTOR IS RESPONSIBLE FOR OPENINGS IN WALLS, FLOORS, CEILINGS, AND ROOFS THAT ARE REQUIRED TO COMPLETE THEIR SCOPE OF WORK. SEAL PENETRATIONS IN ACCORDANCE WITH THE RATING OF THE AFFECTED ASSEMBLY REFER TO ARCHITECTURAL CODE PLAN FOR RATED WALLS, FLOORS, AND CEILINGS.

PROVIDE ELECTRICAL INSTALLATION IN ACCORDANCE WITH STATE CODES.

#### CODE NOTES - ELECTRICAL

- THE CURRENT ADOPTED EDITION OF THE ELECTRICAL CODE IS THE STANDARD FOR THE ELECTRICAL INSTALLATION. VERIFY WITH STATE OFFICIALS WHEN PERMITS ARE OBTAINED. NOTIFY DESIGN TEAM OF ANY DISCREPANCIES BETWEEN THE PROJECT MANUAL OR DRAWINGS AND THE GOVERNING CODE.
- INSTALLATION SHALL FOLLOW REQUIREMENTS OF THE ADAAG -AMERICANS WITH
- REFER TO PROJECT MANUAL AND PROJECT CODE REVIEW SHEET FOR LIST OF APPLICABLE
- PER NEC EVERY CIRCUIT AND CIRCUIT MODIFICATION SHALL BE LEGIBLY IDENTIFIED AS TO

ITS CLEAR, EVIDENT AND SPECIFIC PURPOSE OR USE. CONTRACTOR TO PROVIDE FINAL

CIRCUIT IDENTIFICATION FOR ALL NEW AND MODIFIED CIRCUITS AT PROJECT COMPLETION.

## <u>DEVICE INSTALLATION AND MATERIALS - ELECTRICAL</u>

HEIGHT UNLESS OTHERWISE SPECIFICALLY INDICATED.

- 1. PROVIDE NORMAL WIRING DEVICES AS <u>GRAY</u> UNLESS OTHERWISE NOTED.
- PROVIDE EMERGENCY WIRING DEVICES AS <u>ORANGE</u> UNLESS OTHERWISE NOTED.
- PROVIDE DEVICES COVER PLATES AS <u>STAINLESS STEEL</u>. MATCH WIRING DEVICES COLOR. PROVIDE GFCI TYPE RECEPTACLES AT ALL LOCATIONS REQUIRED BY THE NEC.
- INSTALL ABOVE COUNTERTOP RECEPTACLES +8" ABOVE COUNTERTOP OR AS OTHERWISE
- INDICATED. AT A COMMON COUNTERTOP, INSTALL ALL RECEPTACLES AND SWITCHES AT THE SAME

## FIRE DETECTION & ALARM NOTES

- INSTALL HEAT DETECTORS IN WORK AREAS DURING CONSTRUCTION TO MINIMIZE FALSE TRIPS. INSTALL PERMANENT DETECTORS IN LOCATIONS SHOWN UPON CONSTRUCTION COMPLETION.
- INSTALL MODULES AT ELEVATOR EQUIPMENT TO PROVIDE PRIMARY RECALL, SECONDARY RECALL, FIRE HAT AND SHUNT TRIP. PROVIDE PROGRAMMING AS NECESSARY FOR FUNCTION SYSTEM.
- FIRE ALARM ITEMS AND DEVICES ARE SHOWN IN SUGGESTED LOCATIONS, FINAL LAYOUTS, LOCATIONS, AND QUANTITIES SHALL BE IN ACCORDANCE WITH APPLICABLE CODES, MANUFACTURER'S RECOMMENDATIONS, AND EQUIPMENT LISTINGS. COORDINATE LOCATIONS WITH LIGHTING AND AIR HANDLING SYSTEMS.
- 4. ALL FIRE ALARM CIRCUITRY IN EXPOSED CEILING SPACES SHALL BE IN 3/4" CONDUIT PER SPECIFICATIONS. EXPOSED CABLING SHALL NOT BE ACCEPTED.
- ALL CONCEALED. ACCESSIBLE CEILING TILE LOCATIONS SHALL BE ALLOWED TO HAVE OPEN AIR CABLING INSTALLED. PROVIDE J-HOOKS, BRIDLE RINGS AND ASSOCIATED
- CABLE SUPPORTS TO KEEP INFRASTRUCTURE MANAGED AND OFF OF THE CEILING TILE. ELECTRICAL CONTRACTOR SHALL PROVIDE FIRESTOPPING AT ALL PENETRATIONS PER

## COMMUNICATION NOTES

SPECIFICATION.

REUSE EXISTING POTS LINE IN THE ELEVATOR EQUIPMENT ROOM FOR THE ELEVATOR TELEPHONE. REVISE LOCATION AND EXTEND AS NECESSARY FOR NEW EQUIPMENT

1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 21 | 22 | 23 | 24

INSTALL NEW DATA CABLING FROM IDF LOCATIONS SHOWN ON PLANS TO EACH ELEVATOR EQUIPMENT ROOM FOR NEW 2-WAY COMMUNICATION SYSTEM.

## LIGHTING SYMBOLS RECESSED LIGHT FIXTURE, LETTER INDICATES SWITCH LEG (TYPICAL), SHADING INDICATES EMERGENCY LIGHT (TYPICAL) ROUND APERTURE RECESSED DOWNLIGHT FIXTURE, ARROW INDICATES WALLWASH SURFACE MOUNTED STRIP FIXTURE LINEAR PENDANT MOUNTED FIXTURE INDUSTRIAL STRIP LIGHT FIXTURE WALL MOUNTED STRIP LIGHT FIXTURE. EMERGENCY LIGHT FIXTURE, WALL MOUNT, +96" OR AS NOTED EMERGENCY LIGHT FIXTURE, CEILING MOUNT EXIT SIGN. WALL MOUNT +96". SHADED AREAS INDICATE NUMBER OF FACES, ARROWS INDICATE SIGN ARROWS EXIT SIGN, CEILING MOUNT, SHADED AREAS INDICATE NUMBER OF FACES, ARROWS INDICATE SIGN ARROWS SINGLE POLE SWITCH, WALL MOUNT, LETTER INDICATES SWITCH LEG **\$** a THREE WAY SWITCH, WALL MOUNT, LETTER INDICATES SWITCH LEG PILOT LIGHT SWITCH, WALL MOUNT, LETTER INDICATES SWITCH LEG DIMMER SWITCH, WALL MOUNT, LETTER INDICATES SWITCH LEG LIGHTING CONTROLS LOW VOLTAGE SWITCH, WALL MOUNT, LETTER INDICATES SWITCH LEG, REFER TO LIGHTING CONTROLS SCHEDULE EMERGENCY TRANSFER DEVICE

## TECHNOLOGY RESPONSIBILITY MATRIX PROVISION RESPONSIBILITIES DEFINED | OFOI | OFCI | CFCI **COMMUNICATIONS - TELECOM SYSTEMS** ROUGH-IN, PATHWAYS AND SLEEVES RACKS, FRAMES AND ENCLOSURES REUSE EXISTING COPPER HORIZONTAL CABLING DATA COMMUNICATIONS SWITCHES AND HUBS REUSE EXISTING **SECURITY - ACCESS CONTROL:** ROUGH-IN, PATHWAYS AND SLEEVES SECURITY MANAGEMENT SYSTEM - HEAD END COMPONENTS SECURITY MANAGEMENT SYSTEM - FIELD DEVICES SECURITY MANAGEMENT SYSTEM - ELECTRIFIED DOOR HARDWARE SECURITY MANAGEMENT SYSTEM - ALL CABLING **SECURITY - VIDEO SURVEILLANCE:** ROUGH-IN, PATHWAYS AND SLEEVES N/A N/A N/A N/A N/A N/A HEAD END EQUIPMENT AND COMPONENTS N/A N/A N/A **SAFETY - FIRE DETECTION AND ALARM:** ROUGH-IN, PATHWAYS AND SLEEVES INITIATING FIELD DEVICES (SMOKE, MANUAL PULL, MONITOR MODULES) NOTIFICATION APPLIANCES (HORNS, STROBES, SPEAKERS) MISCELLANEOUS DEVICES (RELAYS, TEST STATION, ANNUNCIATOR) OFOI OWNER FURNISHED & OWNER INSTALLED

CFCI <u>c</u>ontractor <u>f</u>urnished & <u>c</u>ontractor <u>i</u>nstalled MATRIX IS NOT INTENDED TO BE EXHAUSTIVE TO COVER ALL MATERIALS NECESSARY FOR

SCOPE AND SHOULD ONLY BE USED TO QUICKLY IDENTIFY SYSTEMS AND RELATED INFRASTRUCTURE INSIDE AND OUTSIDE THE BID OF THIS PROJECT. ANY ITEMS FURNISHED OR INSTALLED BY THE BIDDING CONTRACTOR SHALL COVER ALL REQUIRED APPERTUNANCES NECESSARY FOR A COMPLETE SYSTEM. THIS SHALL INCLUDE BUT NOT BE LIMITED TO, EQUIPMENT, ACCESSORIES, TERMINATIONS, TERMINATION COMPONENTS, ALL FINAL CORDAGE CONNECTIVITY, SOFTWARE, PROGRAMMING, AND THE LABOR TO INSTALL.

OFCI <u>o</u>wner <u>f</u>urnished & <u>c</u>ontractor <u>i</u>nstalled

**GENERAL SYMBOLS** E CONDUIT SLEEVE CONDUIT UP, REFER TO TAG ON DRAWING FOR SIZE CONDUIT DOWN, REFER TO TAG ON DRAWING FOR SIZE JUNCTION BOX, CEILING OR FLOOR MOUNTED. JUNCTION BOX, WALL MOUNTED, ELEVATION AS NOTED. KEYNOTE EQUIPMENT IDENTIFICATION TAG. REFER TO EQUIPMENT CONNECTION SCHEDULE SIM DETAIL DRAWING REFERENCE TAG, SIM-SIMILAR, TYP-TYPICAL, OPP-OPPOSITE SHEET REFERENCE SECTION CUT REFERENCE TAG, SIM-SIMILAR, TYP-TYPICAL, OPP-OPPOSITE SHEET REFERENCE

1 INTERIOR ELEVATION DRAWING REFERENCE TAG

DRAWINGS REVISION. REFER TO TITLEBLOCK FOR REVISION NAME AND DATE

POWER SYMBOLS						
φ	SINGLE RECEPTACLE, WALL MOUNTED					
Ф	DUPLEX RECEPTACLE, WALL MOUNTED, TAMPER-RESISTANT					
Ψ	DUPLEX GFCI RECEPTACLE, TAMPER-RESISTANT, WALL MOUNT, PROTECTION INCLUDED IN DEVICE.					
₽W	DUPLEX GFCI WEATHER RESISTANT RECEPTACLE WITH WEATHER-PROOF IN-USE COVER, TAMPER-RESISTANT, WALL MOUNT					
•	EQUIPMENT CONNECTION, REFER TO EQUIPMENT CONNECTION SCHEDULE FOR CONNECTION TYPE. REFER TO PANEL SCHEDULES FOR GFCI PROTECTION WHERE REQUIRED					
69	MOTOR CONNECTION, REFER TO EQUIPMENT CONNECTION SCHEDULE FOR CONNECTION TYPE. REFER TO PANEL SCHEDULES FOR GFCI PROTECTION WHERE REQUIRED					
•	EQUIPMENT CONNECTION, WALL MOUNT, REFER TO EQUIPMENT CONNECTION SCHEDULE FOR CONNECTION TYPE. REFER TO PANEL SCHEDULES FOR GFCI PROTECTION WHERE REQUIRED					
4	SAFETY DISCONNECT SWITCH					
SPD	SURGE PROTECTIVE DEVICE					
-	PANELBOARD - SURFACE MOUNTED					
-	PANELBOARD - RECESSED IN WALL					
	DISTRIBUTION PANELBOARD/SWITCHBOARD - SURFACE MOUNTED AS NOTED.					

TEMPERATURE CONTROLS SYMBOLS - DEVICES PROVIDED BY T.C.C

- THERMOSTAT JUNCTION BOX ROUGH-IN. WALL MOUNTED +48" OR AS NOTED. EXTEND 3/4" CONDUIT TO ACCESSIBLE LOCATION ABOVE CEILING.
- HUMIDISTAT JUNCTION BOX ROUGH-IN. WALL MOUNTED +48" OR AS NOTED.
- EXTEND 3/4" CONDUIT TO ACCESSIBLE LOCATION ABOVE CEILING.

4. INCLUDE AUXILLIARY CONTACTS AND LOW-VOLTAGE WIRING TO AUXILLIARY EQUIPMENT THAT RUNS IN TANDEM WITH

- CARBON DIOXIDE SENSOR JUNCTION BOX ROUGH-IN. WALL MOUNTED +48" OR AS NOTED. EXTEND 3/4" CONDUIT TO ACCESSIBLE LOCATION ABOVE CEILING.
- TEMPERATURE SENSOR JUNCTION BOX ROUGH-IN. WALL MOUNTED +48" OR AS NOTED. EXTEND 3/4" CONDUIT TO ACCESSIBLE LOCATION ABOVE CEILING.

		EQUIP	MENT CONNECTION SCHEDULE
ABBREVIATIONS:			NOTES:
1 NEMA 1 ENCLOSURE	INT INTEGRAL V	VITH EQUIPMENT FROM FACTORY	1. PROVIDE AND INSTALL ELECTRICAL SYSTEMS MEETING THE REQUIREMENTS OF THE PROVIDED MECHANICAL SYSTEMS
3R NEMA 3R ENCLOSURE	NFD NON-FUSED	DISCONNECT SWITCH, HEAVY DUT	$ TY ^{-2}$ . REVIEW EQUIPMENT SHOP DRAWINGS FOR COMPLIANCE AND COORDINATION WITH ELECTRICAL CONNECTIONS. NOTIF
CB CIRCUIT BREAKER IN PANE	. ST SHUNT TRIF	,	ENGINEER IF CHANGES TO ELECTRICAL CONNECTIONS, WIRING, AND BREAKER REQUIREMENTS ARE NECESSARY.
FAR FIRE ALARM SHUTDOWN RE	LAY TS TOGGLE SW	/ITCH	3. PROVIDE HEAVY DUTY DISCONNECTS FOR THE INSTALLED ENVIRONMENT; NEMA 1 INDOORS, MINIMUM NEMA 3R
FDS FUSED DISCONNECT SWITC	H, HEAVY		OUTDOORS.

EQUIPMENT, (I.E. 120V DAMPERS WITH 480V MOTORS).

								`		·
	ELECTRICAL CHARACTERISTICS					D	ISCONNECT			
					<u> </u>		_			
							SIZE	<u>NEMA</u>	<b>FUSE SIZE</b>	
<u>TAG</u>	VOLTAGE	PHASE	<b>MOTOR HP</b>	KW	MCA	TYPE	(AMPS)	RATING	(AMPS)	REMARKS
SSI-1	208 V	1			1	NFD	30	1		
331-1	206 V	I	-		ı	INFD	30	Į.	-	-
SSO-1	208 V	1	_	_	19	NFD	30	3R	_	-

<u>TAG</u>	VOLTAGE PHASE	MOTOR HP	<u>KW</u>	<u>MCA</u>	TYPE	SIZE (AMPS)	NEMA RATING	FUSE SIZE (AMPS)	<u>REMARKS</u>
SSI-1	208 V 1	-	-	1	NFD	30	1	-	-
SSO-1	208 V 1	-	-	19	NFD	30	3R	-	-

	LIGHTING FIXTURE SCHEDULE
NIALL DE LLE OD CIMILADI VILICTED	

1. ALL FIXTURES SHALL BE U.L. OR SIMILARLY LISTED.

RET-UNV

- 4. VERIFY COMPATIBILITY OF LIGHT FIXTURES WITH ARCHITECTUREAL CEILING PLAN, MATERIALS, ADJACENT CONSTRUCTION, AND ADJACENT FINISHES PRIOR TO SHOP DRAWINGS SUBMITTAL. ADJUST FIXTURE TYPE,
- 6. AIM AND TARGET ADJUSTABLE INTERIOR AND EXTERIOR LIGHT FIXTURES UNDER THE OBSERVATION AND IN COMPLIANCE WITH RECOMMENDATIONS OF THE ARCHITECT.
- INCLUDE LABOR AND MATERIAL COSTS MADE NECESSARY BY THIS REQUIREMENT.

DESIGNED BY: EDIC HEVNEN

03/14/2025 Sheet Name **ELECTRICAL/MECHANICAL GENERAL NOTES & SYMBOLS HOOVER** 

**ME000.1** 

OPN Project No. 24850000

Sheet Issue Date

100 Court Ave., Suite 100

www.opnarchitects.com

rights, including the copyright thereto.

All reports, plans, specifications, computer files, field data

notes and other documents and instruments prepared by

the property of OPN Architects, Inc., OPN Architects, Inc.

shall retain all common law, statutory and other reserved

**Hoover Elevator Modernization** 

220 SE 6TH Street - SUITE 200

7625 GOLDEN TRIANGLE DRIVE, SUITE T

DES MOINES, IA 50309

EDEN PRAIRIE, MN 55344

P. 515-244-5043

LERCH BATES

P. 612-441-4335

KCL ENGINEERING

KCL ENGINEERING

WEST DES MOINES, IA 50265

WEST DES MOINES, IA 50265

Mechanical Engineer

300 4TH ST

Electrical Engineer

300 4TH ST

P. 515-724-7938

P. 515-724-7938

Elevator Consultant

1305 E. Walnut Street

DES MOINES, IA 50319

Construction Manager

DCI Group

OPN Architects, Inc. as instruments of service shall remain

Des Moines, IA 50309

P: 515-309-0722

© 2024 OPN Architects, Inc

West Des Moines, IA 50265 515-724-7938

2. INCLUDE A MINIMUM 1 YEAR WARRANTY FOR LIGHTING FIXTURES, WHERE NOT OTHERWISE SPECIFIED.

. REFER TO ARCHITECTURAL DOCUMENTS FOR EXACT MOUNTING LOCATIONS, DETAILS, AND CONFIGURATIONS OF ALL LUMINAIRES. IF ARCHITECTURAL DRAWINGS DO NOT CLARIFY EXACT MOUNTING LOCATION OR DETAIL, ISSUE AN RFI FOR ARCHITECT TO SPECIFICALLY CLARIFY PRIOR TO FIXTURE ROUGH-IN.

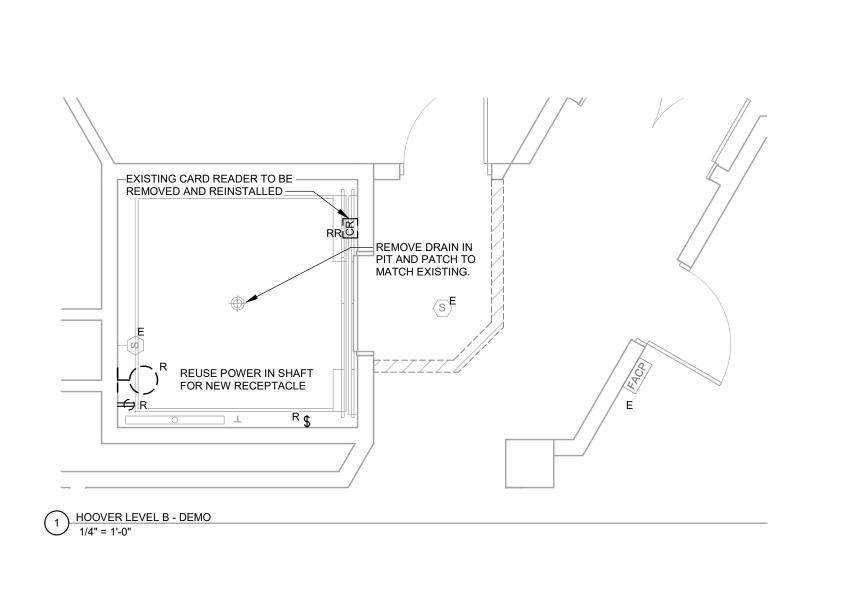
CONSTRUCTION, FLANGE,...

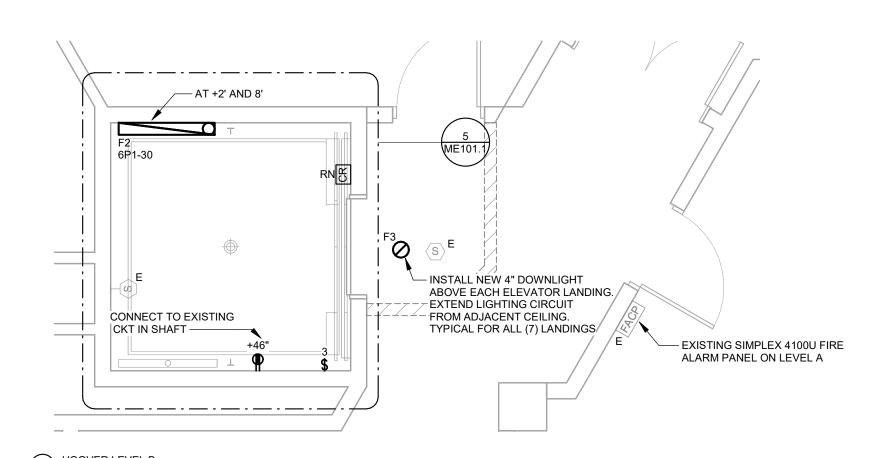
5. CONTRACTOR IS RESPONSIBLE FOR ALL MISCELLANEOUS HARDWARE NECESSARY TO INSTALL AND SUPPORT THE LUMINAIRES.

SPACE

7. CONTRACTOR IS RESPONSIBLE FOR OBTAINING AND FILLING OUT ALL UTILITY REBATE FORMS FOR OWNER.

									DESIGNE	D BY: ERIC HEYNEN
TYPE	MANUFACTURER	MODEL	DESCRIPTION	FINISH	LUMENS	DRIVER TYPE	SOURCE-CC T	VOLTAGE	LOAD-VA	APPROVED EQUAL
<u> </u>	MANOTACTONER	WODEL					<u> </u>	VOLIAGE	LOAD-VA	AI I ICALD EGOAL
EM	HUBBELL DUAL-LITE	LZ-2-I-03L	EMERGENCY LIGHT, WALL OR CEILING MOUNTED, THERMOPLASTIC HOUSING, 2 LED ADJUSTABLE LAMP HEADS, LEAD-CALCIUM MAINTENANCE FREE BATTERY, SELF-DIAGNOSTICS. MULTI-VOLT REQUIRED	WHITE	300	LED	LED - 4000K	120 V	2 VA	SURE-LITES, LIGHTALARM LITHONIA
F1	LITHONIA	CSVT L48 5000LM MVOLT 40K 80CRI	UTILITY STRIP FIXTURE 4', WET LISTED, GASKETED, POLYCARB LENS, MULTI-VOLT REQUIRED	WHITE	5000	LED	LED - 4000K	120 V	35 VA	COOPER, CURRENT
F2	LITHONIA	CSVT L48 5000LM MVOLT 40K 80CRI	SAME AS F1 BUT WALL MOUNTED	WHITE	5000	LED	LED - 4000K	120 V	35 VA	COOPER, CURRENT
F3	ALPHABET	NU4E4-RD-SW-15LM-3 5K-90-60D-CL-WH-WH-	4" RECESSED DOWNLIGHT, MULTI-VOLT, RETROFIT IN EXISTING DRYWALL CEILING, EXTEND CIRCUIT/SWITCHLEG FROM EXISTING LIGHTING IN	WHITE	1500	LED	LED - 3500K	120 V	16 VA	GOTHAM, PORTFOLIO





HEAT & SMOKE DETECTORS INSTALLED AT TOP OF HOISTWAY.

HEAT DETECTOR LOCATED <2' FROM SPRINKLER HEAD. —

ELEVATOR LOBBY SMOKE DECTOR.

DOOR. TYP FOR EVERY LOBBY. -

LOBBY, FIFTH LEVEL FLOOR

NEW LIGHTING FIXTURE IN EACH

LEVATOR SYSTEM DETAIL

NOT TO SCALE

West Des Moines, IA

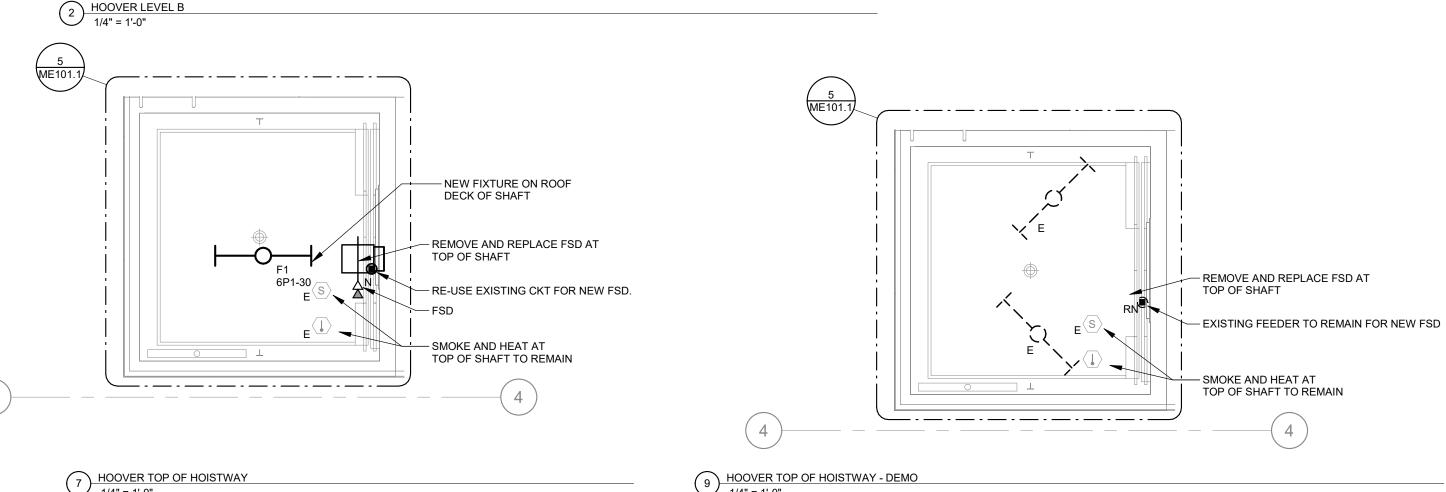
50265

515-724-7938

LOBBY. 7 TOTAL FIXTURES. —

<21' FROM CENTERLINE OF ELEVATOR

(7) HOISTWAY LIGHTING SWITCH —



(6) ELEVATOR HOISTWAY LIGHTING. TYP.

**TOP OF HOISTWAY** 

FIFTH LEVEL FLOOR CEILING

FIFTH LEVEL FLOOR

## **KEY NOTES:**

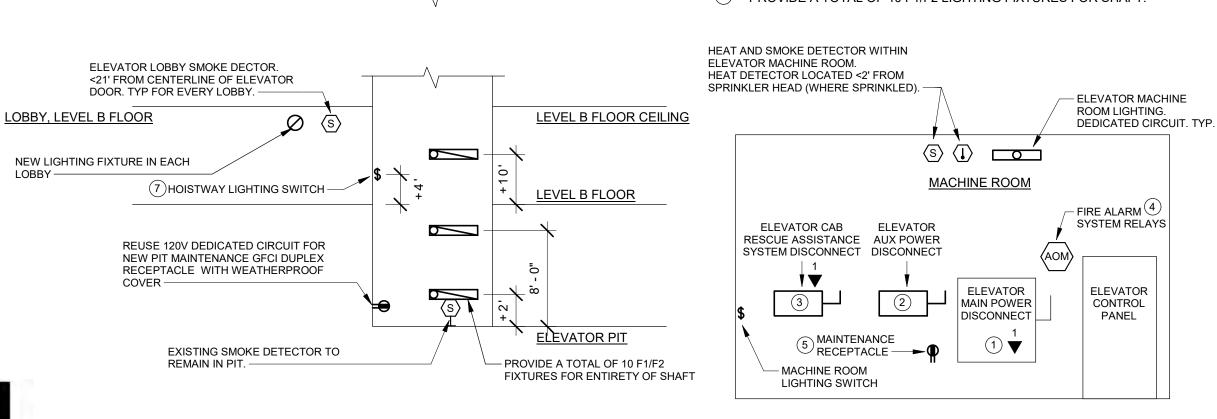
- 1) FUSED, LOCKABLE 100A MAIN DISCONNECT SWITCH AND DEDICATED CAT6 DATA TERMINATION TO SERVE ELEVATOR MAIN POWER. PROVIDED WITH NO/NC LOW VOLTAGE CONTACTS.
- FUSED, LOCKABLE 30A 120V/1POLE DISCONNECT SWITCH TO SERVE ELEVATOR AUXILIARY LIGHTING/VENTILATION,
- FUSED, LOCKABLE 30A 120V/1POLE DISCONNECT SWITCH AND DEDICATED CAT6 DATA TERMINATION TO SERVE ELEVATOR CAB INTERNAL RESCUE ASSISTANCE SYSTEM.
- FIRE ALARM SYSTEM HAT FLASH, PRIMARY RECALL, SECONDARY RECALL, SHUNT TRIP, AND SHUNT TRIP MONITOR RELAYS.
- DEDICATED CIRCUIT 120V DUPLEX GFCI MAINTENANCE RECEPTACLE WITHIN MACHINE ROOM SPACE ADJACENT TO
- DISCONNECTS. ELEVATOR HOISTWAY LIGHTING POWERED BY DEDICATED CIRCUIT. FOR EACH CAR, PROVIDE LIGHT FIXTURE AT TOP OF HOISTWAY, PIT, AND AT EACH FLOOR. FIXTURES ABOVE PIT
- LOCATED TO ILLUMINATE TOP OF CAR AT EACH STOP, TYPICAL 10' ABOVE EACH LEVEL. PROVIDE HOISTWAY LIGHTING CONTROLS THREE WAY SWITCHES AT BOTTOM AND TOP FLOOR HOISTWAY ENTRIES. WHERE MULTIPLE CARS SHARE A COMMON HOISTWAY, PROVIDE 4 WAY SWITCHES AND PROVIDE

SWITCH AT EACH CARS BOTTOM AND TOP FLOORS. SWITCH SHALL

CONTROLS ALL LIGHTING IN HOISTWAY AND PIT PROVIDE A TOTAL OF 10 F1/F2 LIGHTING FIXTURES FOR SHAFT.

TYPICAL ELEVATOR MACHINE ROOM

2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |



TYPICAL ELEVATOR HOISTWAY ELEVATION

**POWER GENERAL NOTES** 

1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 21 | 22 | 23 | 24 | 25

**ELECTRICAL DEMOLITION NOTES** 

WHICH ARE SHOWN.

RECEIVE THE NEW WORK.

DEMOLITION.

SPECIFICALLY NOTED OTHERWISE.

G. PLAN ABBREVIATIONS:

6 ELEVATOR SYSTEM DETAIL NOT TO SCALE

REMOVE ELECTRICAL FACILITIES AND CLEAR THE AREA TO

REMOVE ALL CONDUIT, WIRE, BOXES, ETC., AS

DISCONNECTED BRANCH CIRCUITS BEFORE

BEYOND THE DEMOLITION AREA.

REQUIRED BY WALL AND CEILING DEMOLITION.

IDENTIFY THE LOCATION OR ITEMS SERVED FOR ALL

DEMOLITION. MAINTAIN CIRCUITS SERVING AREAS

REMOVE AND REINSTALL CEILING TILES AS REQUIRED

TO REMOVE THE ELECTRICAL FACILITIES NOTED.

KEEP EXISTING SYSTEMS OPERATIONAL DURING ALL

PHASES OF CONSTRUCTION UNLESS NECCESARY FOR

OBTAIN OWNER'S PERMISSION TO SHUT OFF SERVICES

BEYOND DEMOLITION AREA. INFORM OWNER AS TO THE

REASON FOR AND THE DURATION OF THE SHUTDOWN.

REPAIR AT CONTRACTORS EXPENSE ANY DAMAGED

INSTALL BLANK COVERPLATES/COVERS OVER

OPENINGS AT REMOVED DEVICE LOCATIONS.

ALL WIRING FOR REMODELED AREAS SHALL BE NEW UNLESS

REMOVED/DEMOLISHED EQUIPMENT REMAINS THE PROPERTY OF THE OWNER UNLESS OTHERWISE NOTED. VERIFY OWNERS

SALVAGE SELECTIONS AND DISPOSE ALL OTHER MATERIALS.

R - EXISTING ITEM TO BE REMOVED, PATCH AND/OR

RR - EXISTING ITEM TO BE REMOVED AND RELOCATED

PROTECT EXISTING DEVICES IDENTIFIED TO REMAIN OR BE RELOCATED. IF AN EXISTING DEVICE CANNOT BE REINSTALLED

NOTIFY DESIGN TEAM DURING DEMOLITION. REPLACE FUNCTIONING ITEMS DAMAGED DURING DEMOLITION.

ER - NEW LOCATION OF EXISTING ITEM

N - NEW ITEM IN EXISTING LOCATION

RN - REPLACE EXISTING WITH NEW

E - EXISTING ITEM TO REMAIN

CONDUIT OR WIRE NOT IDENTIFIED FOR DEMOLITION.

OR SYSTEMS WHICH MAY AFFECT OTHER AREAS

REPLACE CEILINGS TILES DAMAGED DURING

DEMOLITION DRAWINGS PRESENT LAYOUT OF EXISTING COORDINATE LOCATION/INSTALLATION OF MECHANICAL AND CONDITIONS AND MAJOR MECHANICAL/ELECTRICAL ITEMS. ELECTRICAL WORK WITH ALL OTHER TRADES. NO ASPECT OF A FIELD VERIFY EXISTING CONDITIONS AND BECOME FAMILIAR SYSTEM INSTALLATION OR ITS ROUGH-IN SHALL COMMENCE UNTIL WITH EXISTING ELECTRICAL SYSTEM AND DEMOLITION SCOPE PROPER AND TIMELY COORDINATION WITH ALL TRADES ASSOCIATED BEFORE WORK BEGINS. WITH THE INSTALLATION HAS TRANSPIRED. ITEMS TO BE COORDINATED SHALL INCLUDE BUT NOT BE LIMITED TO: BUILDING ADDITIONAL COMPONENTS MAY EXIST WHICH ARE NOT SHOWN. STRUCTURE, SHEET METAL, PIPING SYSTEMS, LIGHT FIXTURES, HANDLE SUCH ITEMS IN A MANNER SIMILAR TO THOSE ITEMS CONDUITS, CABLE TRAYS, ETC. REFER TO ALL GENERAL, MECHANICAL, AND ELECTRICAL DRAWINGS AND SPECIFICATIONS FOR

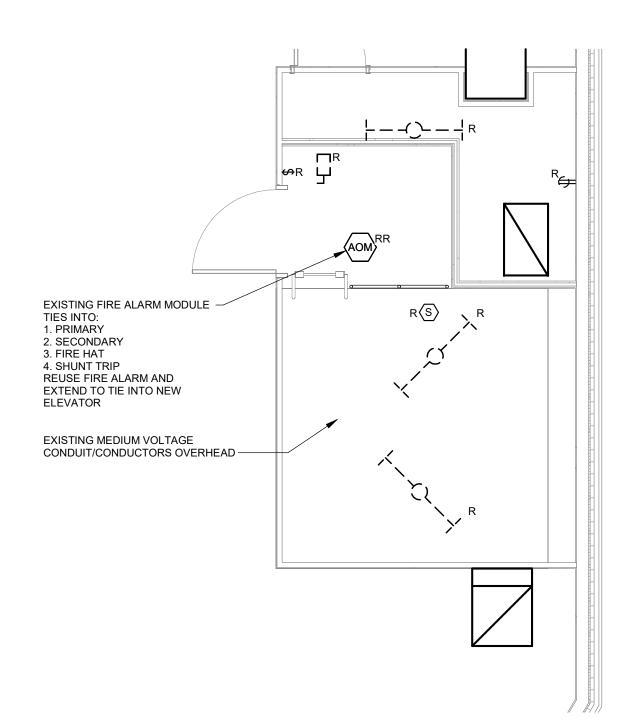
THIS PROJECT.

- COORDINATE ELECTRICAL REQUIREMENTS FOR MECHANICAL UNITS WITH MECHANICAL CONTRACTOR AND FINAL MECHANICAL SHOP
- PROVIDE PENETRATIONS REQUIRED FOR ROUTING RACEWAYS THROUGH THE BUILDING. COORDINATE FIRE RATED WALL PENETRATIONS AND PROVIDE CONDUIT SLEEVES AND FIRE STOPPING TO MAINTAIN RATING.

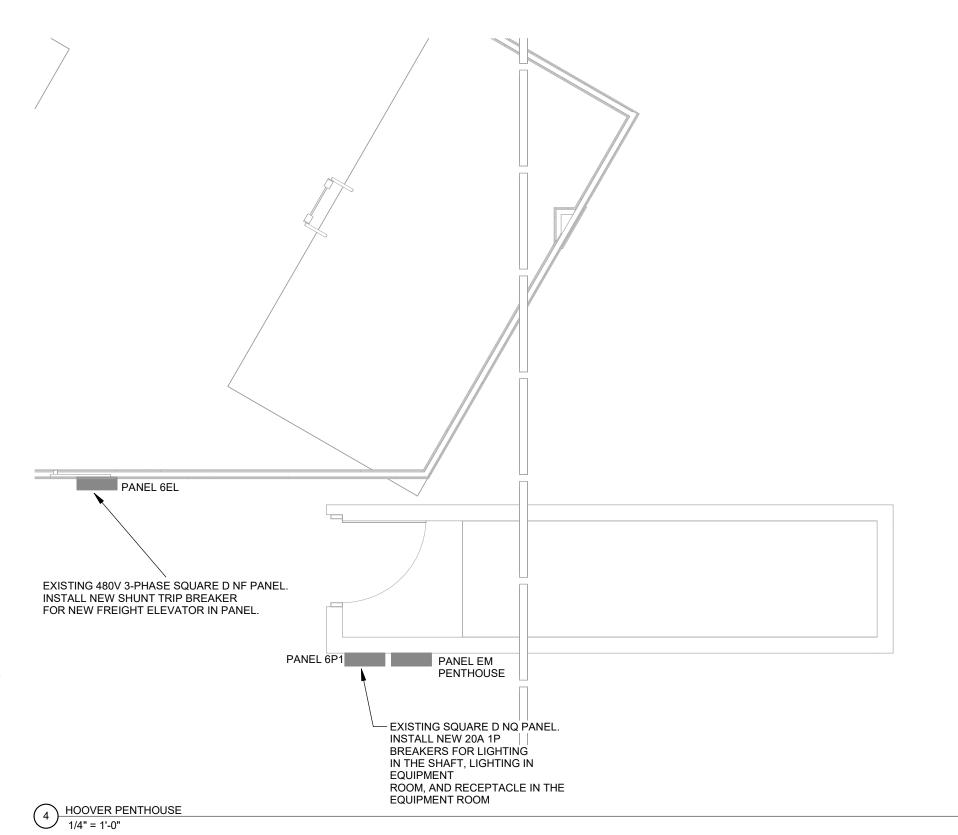
#### **LIGHTING GENERAL NOTES**

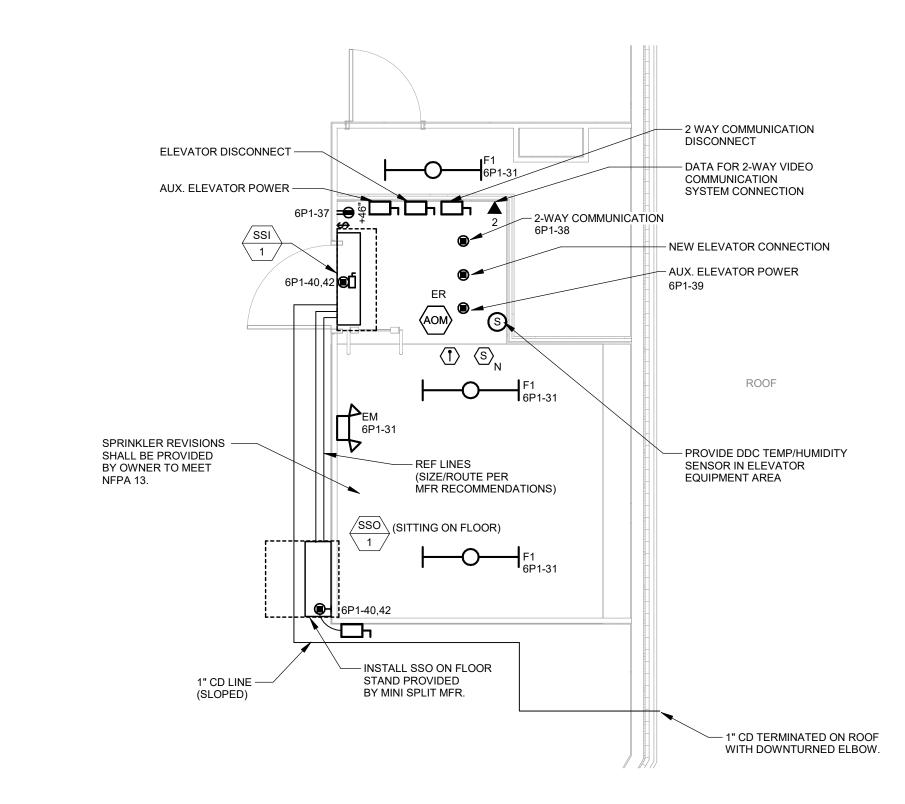
- COORDINATE LOCATION/INSTALLATION OF MECHANICAL AND ELECTRICAL WORK WITH ALL OTHER TRADES. NO ASPECT OF A SYSTEM INSTALLATION OR ITS ROUGH-IN SHALL COMMENCE UNTIL PROPER AND TIMELY COORDINATION WITH ALL TRADES ASSOCIATED WITH THE INSTALLATION HAS TRANSPIRED. ITEMS TO BE COORDINATED SHALL INCLUDE BUT NOT BE LIMITED TO: BUILDING STRUCTURE, SHEET METAL, ALL PIPING SYSTEMS, LIGHT FIXTURES, CONDUITS, CABLE TRAYS, ETC. REFER TO ALL GENERAL, MECHANICAL, AND ELECTRICAL DRAWINGS AND
- UNLESS NOTED OTHERWISE, CONNECT ALL EMERGENCY BATTERY FIXTURES WITH AN UN-SWITCHED LEG OF THE LIGHTING CIRCUIT THAT SERVES THE FIXTURES SPACE. MAINTAIN NORMAL SWITCHING SCHEME OF EMERGENCY FIXTURES UNDER NORMAL OPERATION.

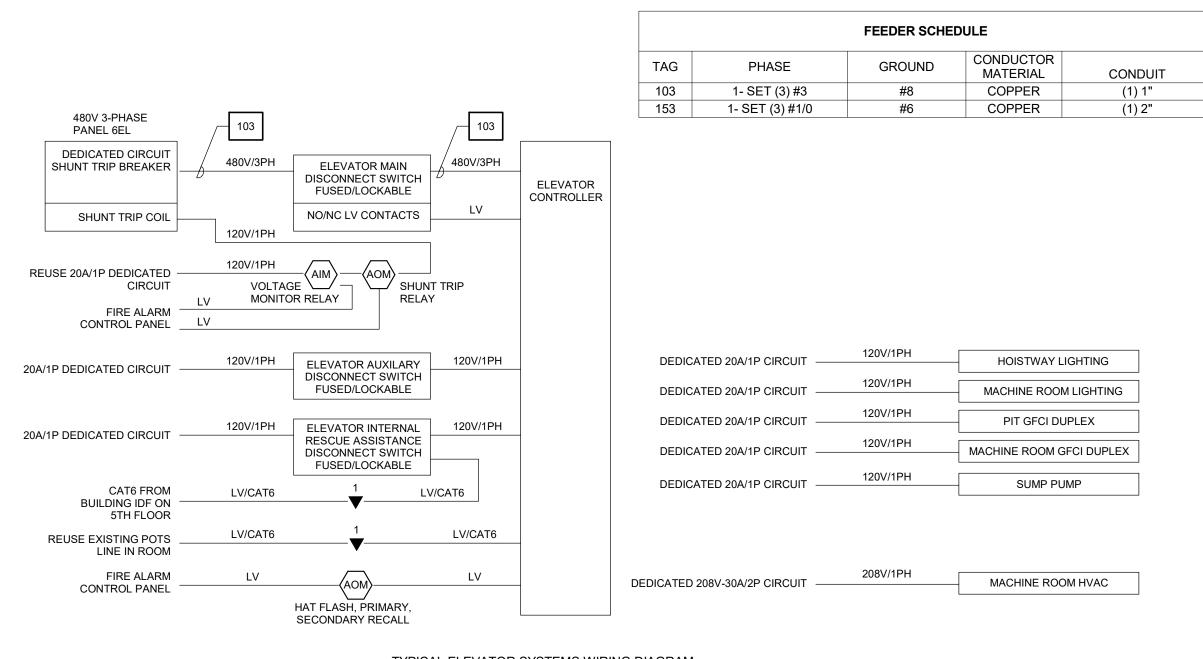
SPECIFICATIONS FOR THIS PROJECT



3 HOOVER PENTHOUSE - DEMO 1/4" = 1'-0"







— 3-WAY SWITCH AT LEVEL 5 LANDING EXISTING DATA RACK (5T3) – ROUTE DATA CABLING FROM RACK TO NEW DATA PORT AS SHOWN ON HOOVER PENTHOUSE PLAN. -

TYPICAL ELEVATOR SYSTEMS WIRING DIAGRAM

8 HOOVER LEVEL 5 1/4" = 1'-0"

| 16 | 17 | 18 |

100 Court Ave., Suite 100 Des Moines, IA 50309 P: 515-309-0722 www.opnarchitects.com

All reports, plans, specifications, computer files, field data, notes and other documents and instruments prepared by OPN Architects, Inc. as instruments of service shall remain the property of OPN Architects, Inc. OPN Architects, Inc. shall retain all common law, statutory and other reserved rights, including the copyright thereto. © 2024 OPN Architects, Inc.

**Hoover Elevator Modernization** 1305 E. Walnut Street DES MOINES, IA 50319

Construction Manager DCI Group 220 SE 6TH Street - SUITE 200 DES MOINES, IA 50309

P. 515-244-5043 Elevator Consultant LERCH BATES 7625 GOLDEN TRIANGLE DRIVE, SUITE T EDEN PRAIRIE, MN 55344

Mechanical Engineer KCL ENGINEERING 300 4TH ST WEST DES MOINES, IA 50265

P. 612-441-4335

P. 515-724-7938

Electrical Engineer KCL ENGINEERING 300 4TH ST WEST DES MOINES, IA 50265 P. 515-724-7938

Key Plan

OPN Project No.

24850000 Sheet Issue Date 03/14/2025

Sheet Name **ELECTRICAL/MECHANICAL HOOVER** 

Sheet Number

**ME101.1** 

AG001.

## PROJECT LOCATION MAP



## SHEET INDEX

COVER SHEET SITE LOGISTICS PLAN AD100.2 DEMO FLOOR PLANS **EXISTING CONDITIONS** EXISTING CONDITIONS FLOOR PLANS MECHANICAL / ELECTRICAL GENERAL NOTES & SYMBOLS

ELECTRICAL / MECHANICAL ORAN PAPE

## APPLICABLE CODE INFORMATION

THE PROJECT SHALL COMPLY WITH THE FOLLOWING CODES

2015 INTERNATIONAL BUILDING CODE AS ADOPTED BY IOWA ADMINISTRATIVE RULE 661-201 AND 661-301

2010 AMERICANS WITH DISABILITIES ACT AS ADOPTED BY IOWA ADMINISTRATIVE RULE 661-302 STATE MECHANICAL CODE AS ADOPTED BY THE DEPARTMENT OF PUBLIC HEALTH IOWA ADMINISTRATIVE RULE 641-61

STATE PLUMBING CODE AS ADOPTED BY THE DEPARTMENT OF PUBLIC HEALTH IOWA ADMINISTRATIVE RULE 641-25

2015 INTERNATIONAL FIRE CODE AS ADOPTED BY IOWA ADMINISTRATIVE RULE 661-201

STATE ELECTRICAL CODE AS ADOPTED BY THE STATE ELECTRICAL LICENSING BOARD IOWA ADMINISTRATIVE RULE 661-504

2015 INTERNATIONAL EXISTING BUILDING CODE AS ADOPTED BY IOWA ADMINISTRATIVE RULE 661-301 AND 661-350

IBC Chapter 2 - Use and Occupancy Classification

Primary Occupancy:
The use and occupancy classification of the existing building are unchanged.

IBC Chapter 5 - General Building Heights and Areas Existing building use and size to remain unchanged.

IBC Chapter 6 - Types of Construction

The type of construction for the existing building is unchanged.

IBC Chaper 7 - Fire and Smoke Protection Features

New construction is limited and existing construction is not being modified. For construction purposes, shaft is considered to be 2 HR construction.

IBC Chapter 8 - Interior Finishes New construction is limited and matches existing interior finishes. IBC Chapter 10 - Means of Egress

All means of egress are being maintained in the existing building.

IBC Chapter 30 - Elevators and Conveying Systems

Fire resistance rated construction is provided at the elevator machine room. Smoke protection at hoistway openings is not required per IBC 3006.2.

with the same materials of which the original building is constructed. The existing building is in compliance with the mandatory fire safety requirements, the mandatory means of egress requirements, and the general safety

Accessibility within the building will be maintained.

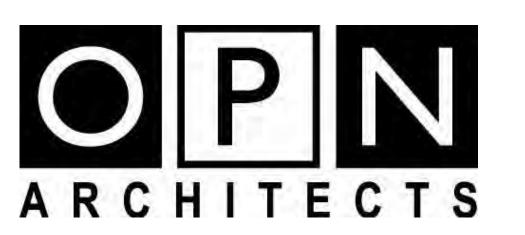
lowa Administrative Code, Chapter 72 - Conveyances Installed on or After January 1, 1975

Elevator pit sump pump is not required per 72.13(3). NFPA-13 Chapter 8 - Section 8.15.5

Building is fully sprinklered. In accordance with NFPA 13-2013, sprinkler coverage will not be provided in the new elevator machine room nor at the bottom of the elevator pit (traction elevators). A sprinkler is not required a the top of the hoistway due to compliance with 8.15.5.6.

# STATE OF IOWA - ORAN PAPE ELEVATOR MOD.

215 E 7th STREET, Des Moines, IA 50319



100 Court Ave. Suite 100, Des Moines, IA 50309 P: 515-309-0722 F: 515-309-0725 www.opnarchitects.com

ARCHITECT OPN ARCHITECTS 100 COURT AVENUE

DES MOINES, IA 50309

CONSTRUCTION MANAGER DCI GROUP 220 SE 6th STREET, SUITE 200

DES MOINES, IA 50309

KCL ENGINEERING 300 4th STREET WEST DES MOINES, IA 50317

**MECHANICAL ENGINEER** 

KCL ENGINEERING 300 4th STREET WEST DES MOINES, IA 50317

**ELECTRICAL ENGINEER** 

LERCH BATES 7625 GOLDEN TRIANGLE DRIVE, SUITE T EDEN PRAIRIE, MN 55344

1 SITE ARIEL



1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 25

CONTRACTOR PARKING - COORDINATE FINAL LOCATION WITH CONSTRUCTION MANAGER.

POTENTIAL CRANE SETUP OPTIONS COORDINATE FINAL LOCATION AND
TIMING WITH CONSTRUTION MANAGER.

PROJECT FREIGHT ELEVATOR

100 Court Ave., Suite 100 Des Moines, IA 50309 P: 515-309-0722

www.opnarchitects.com

rights, including the copyright thereto.

ORAN PAPE ELEVATOR MOD.

220 SE 6TH STREET, SUITE 200

7625 GOLDEN TRIANGLE DRIVE,

EDEN PRAIRIE, MN 55344

WEST DES MOINES, IA 50317

WEST DES MOINES, IA 50317

© 2025 OPN Architects, Inc.

STATE OF IOWA 109 SE 13TH STREET DES MOINES, IA 50319

215 E 7th STREET Des Moines, IA 50319

CONSTRUCTION MANAGER

DES MOINES, IA 50309

DCI GROUP

ELEVATOR CONSULTANT **LERCH BATES** 

Mechanical Engineer KCL ENGINEERING 300 4TH STREET

Electrical Engineer

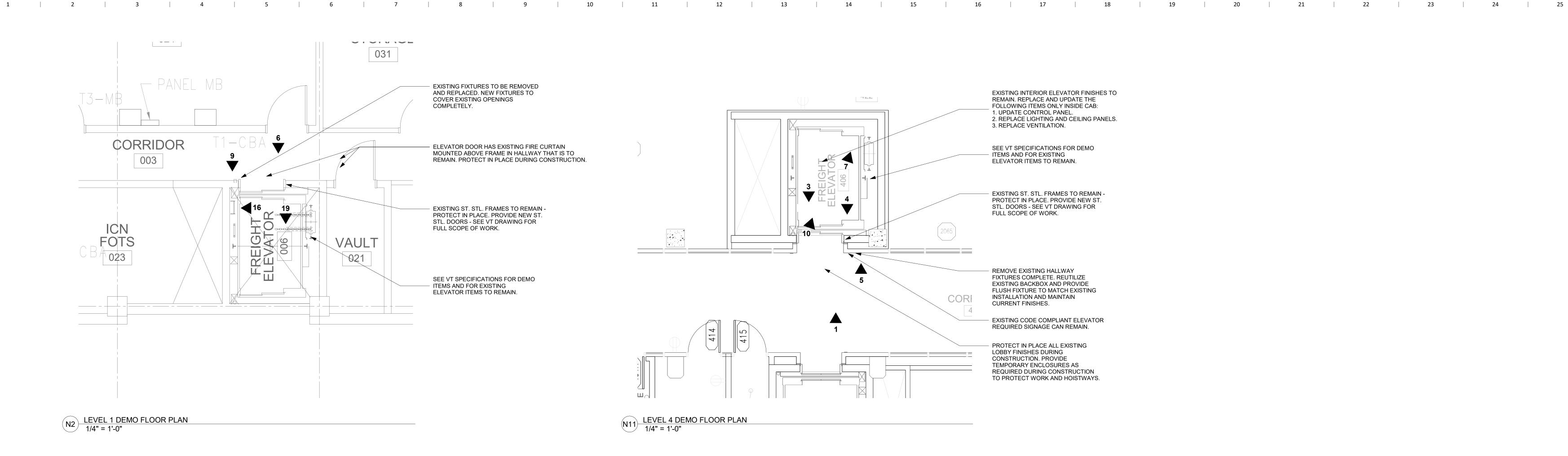
KCL ENGINEERING 300 4TH STREET

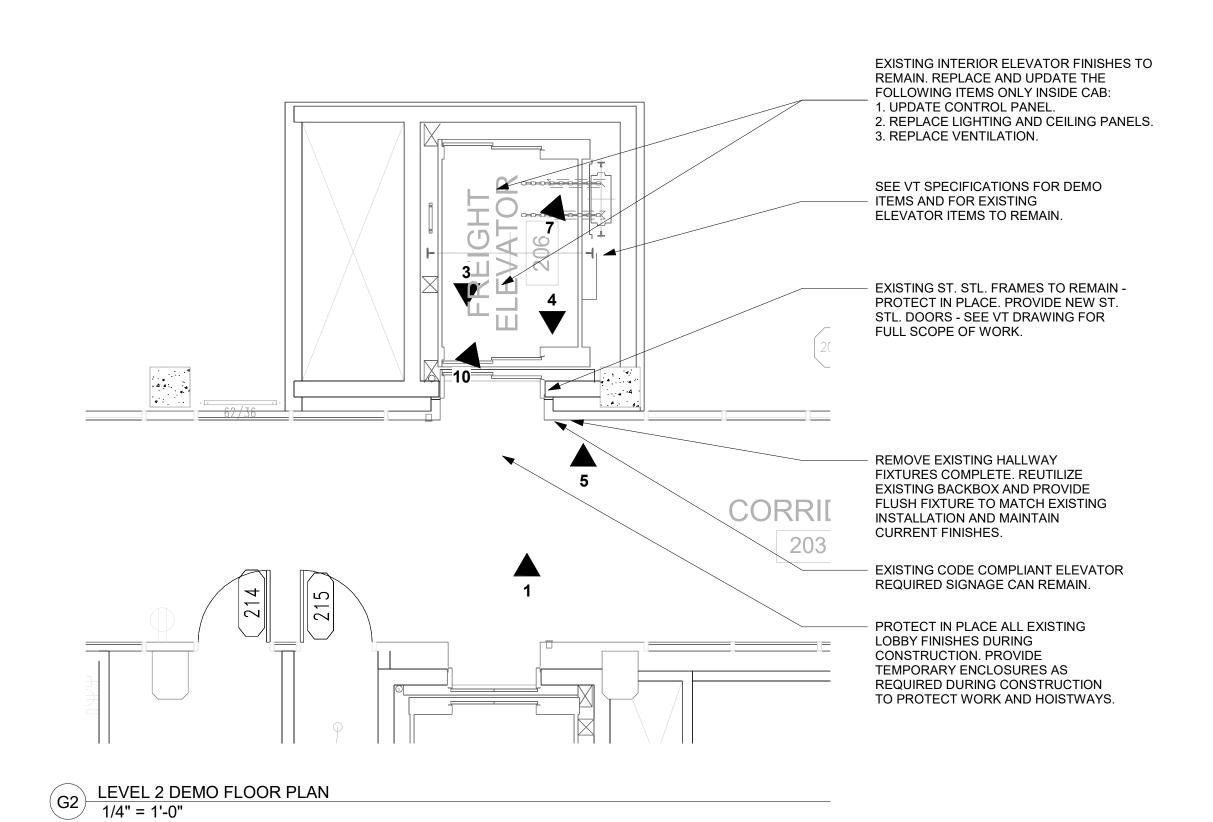
Owner

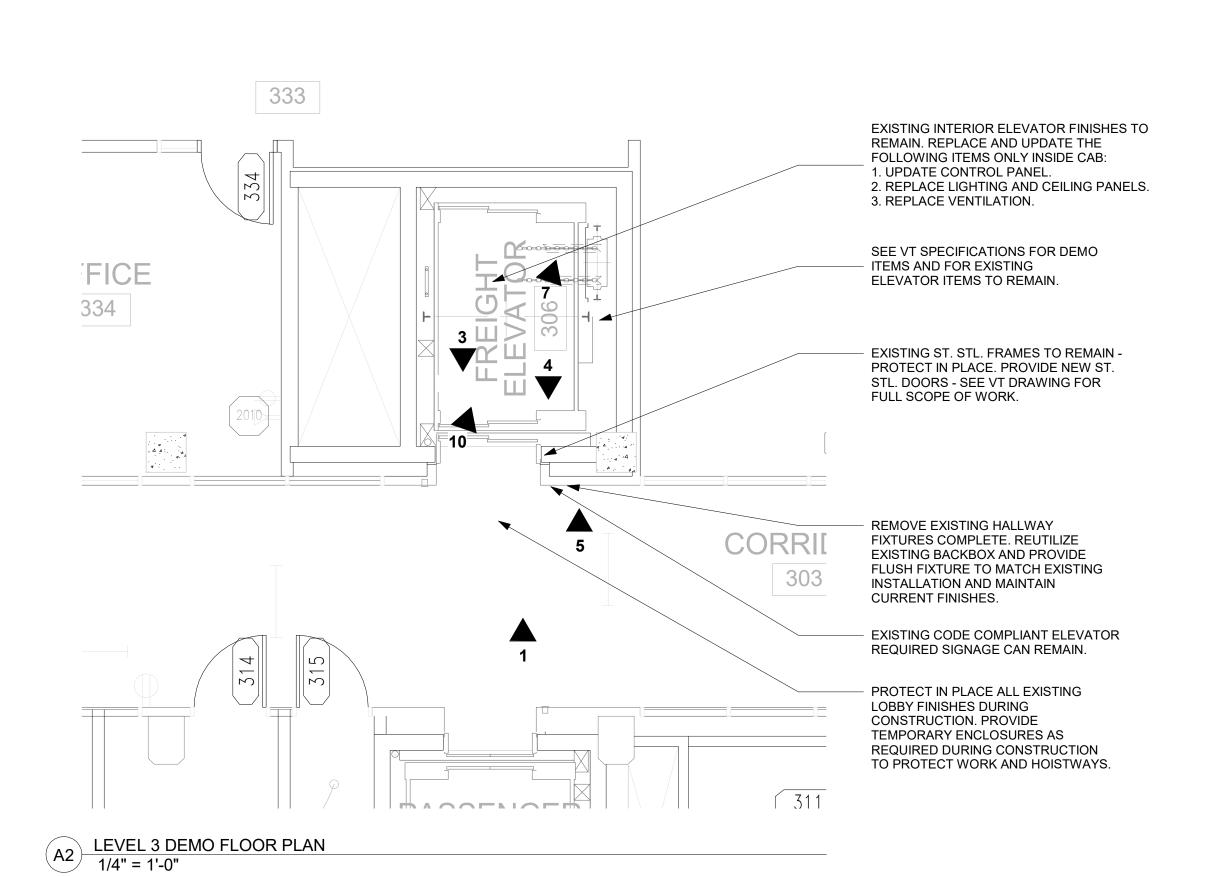
All reports, plans, specifications, computer files, field data, notes and other documents and instruments prepared by OPN Architects, Inc. as instruments of service shall remain the property of OPN Architects, Inc. OPN Architects, Inc. shall retain all common law, statutory and other reserved sight including the compressible theoretic plant.

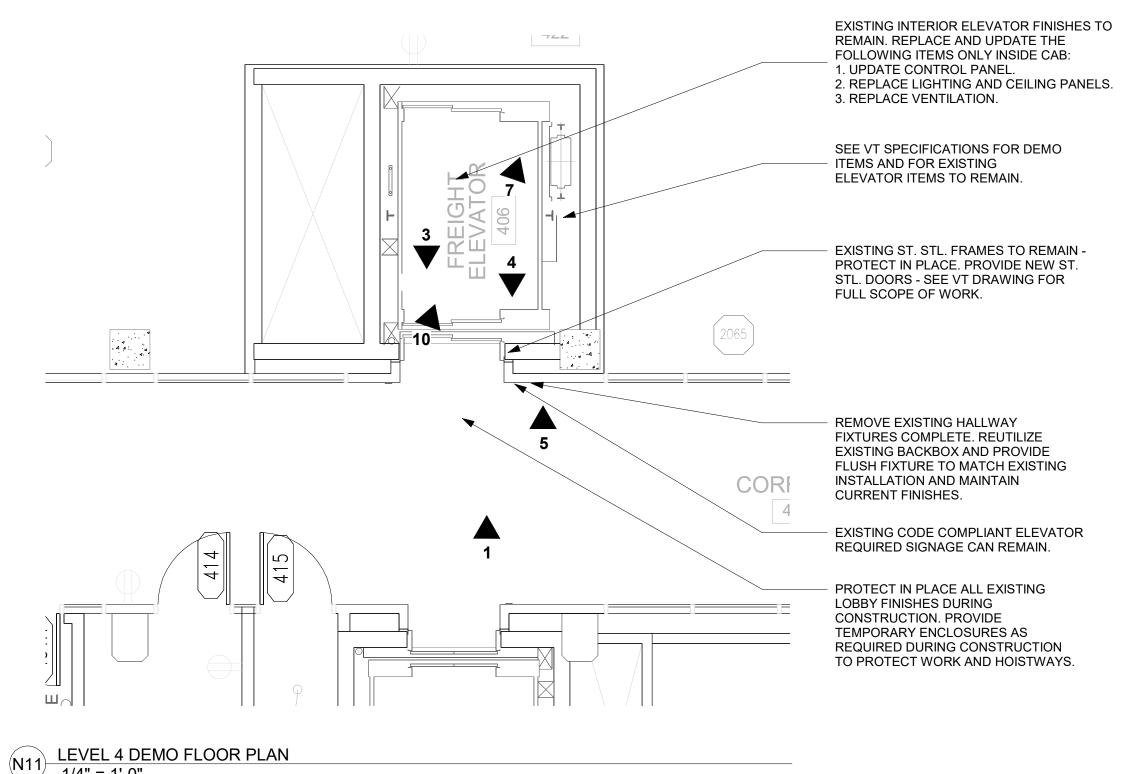
SITE LOGISTICS PLAN

AG002.2

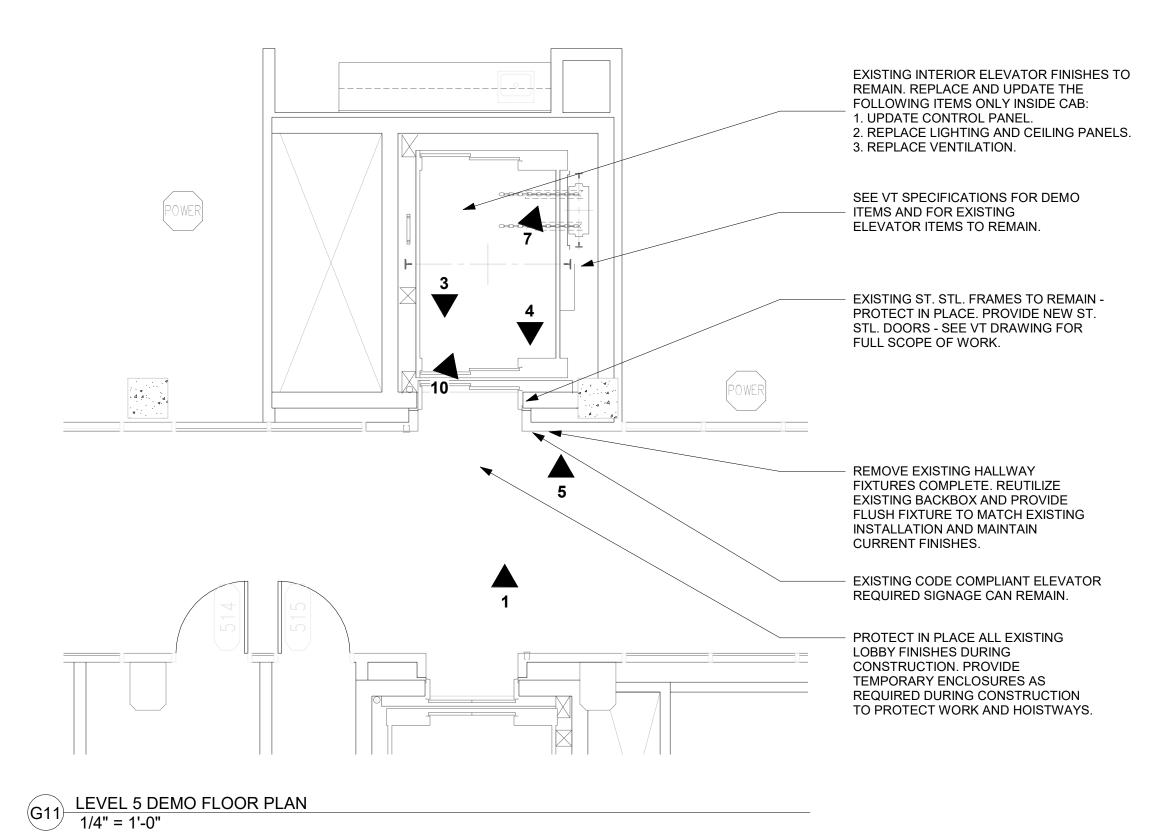


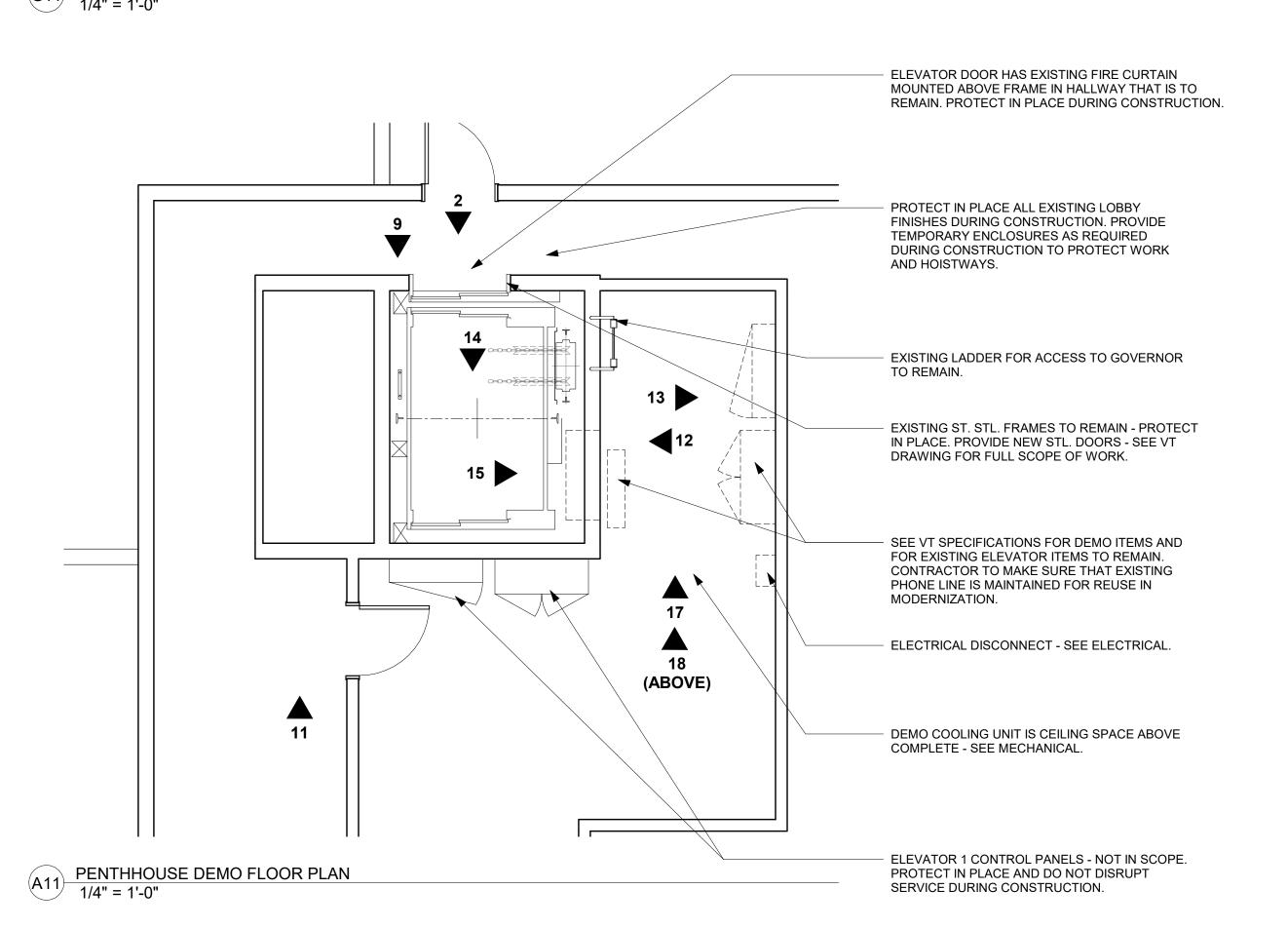






1/4" = 1'-0"





1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 25 |

100 Court Ave., Suite 100 Des Moines, IA 50309 P: 515-309-0722 www.opnarchitects.com

All reports, plans, specifications, computer files, field data, notes and other documents and instruments prepared by OPN Architects, Inc. as instruments of service shall remain the property of OPN Architects, Inc. OPN Architects, Inc. shall retain all common law, statutory and other reserved rights, including the copyright thereto. © 2025 OPN Architects, Inc.

Owner STATE OF IOWA 109 SE 13TH STREET DES MOINES, IA 50319

ORAN PAPE ELEVATOR MOD. 215 E 7th STREET Des Moines, IA 50319

CONSTRUCTION MANAGER **DCI GROUP** 220 SE 6TH STREET, SUITE 200

DES MOINES, IA 50309 ELEVATOR CONSULTANT **LERCH BATES** 

7625 GOLDEN TRIANGLE DRIVE, SUITE T EDEN PRAIRIE, MN 55344 Mechanical Engineer

KCL ENGINEERING 300 4TH STREET WEST DES MOINES, IA 50317

WEST DES MOINES, IA 50317

Electrical Engineer

KCL ENGINEERING

300 4TH STREET

Key Plan

Revision Description

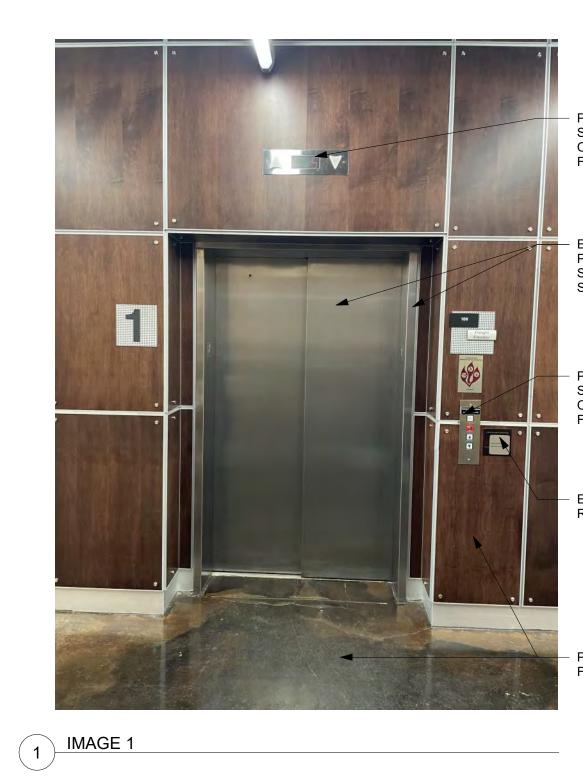
OPN Project No. 24850000

Sheet Issue Date 03/14/2025

Sheet Name **DEMO FLOOR PLANS** 

Sheet Number

**AD100.2** 



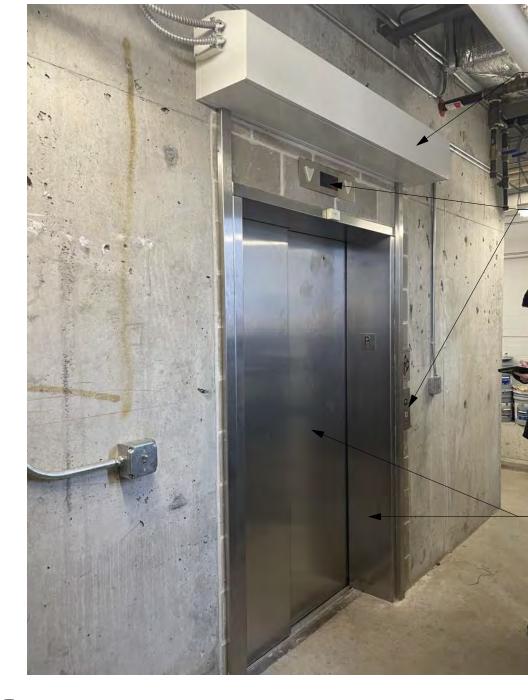
PROVIDE NEW FIXTURES. FIXTURES SHOULD COMPLETELY COVER EXISTING OPENINGS AND MAINTAIN THE EXISTING FINISHES.

 EXISTING ST. STL. FRAMES TO REMAIN -PROTECT IN PLACE. PROVIDE NEW ST. STL. DOORS - SEE VT DRAWING FOR FULL SCOPE OF WORK.

PROVIDE NEW FIXTURES. FIXTURES SHOULD COMPLETELY COVER EXISTING OPENINGS AND MAINTAIN THE EXISTING

EXISTING CODE COMPLIANT ELEVATOR REQUIRED SIGNAGE CAN REMAIN.

PROTECT ALL EXISTING HALLWAY FINISHES DURING CONSTRUCTION.



EXISTING ST. STL. FRAMES TO REMAIN -PROTECT IN PLACE. PROVIDE NEW ST. STL. DOORS - SEE VT DRAWING FOR FULL SCOPE OF WORK.

1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 25 | 25 |

ELEVATOR DOOR HAS EXISTING FIRE

CURTAIN MOUNTED ABOVE FRAME IN

IN PLACE DURING CONSTRUCTION.

CONSTRUCTION - SEE ELECTRICAL.

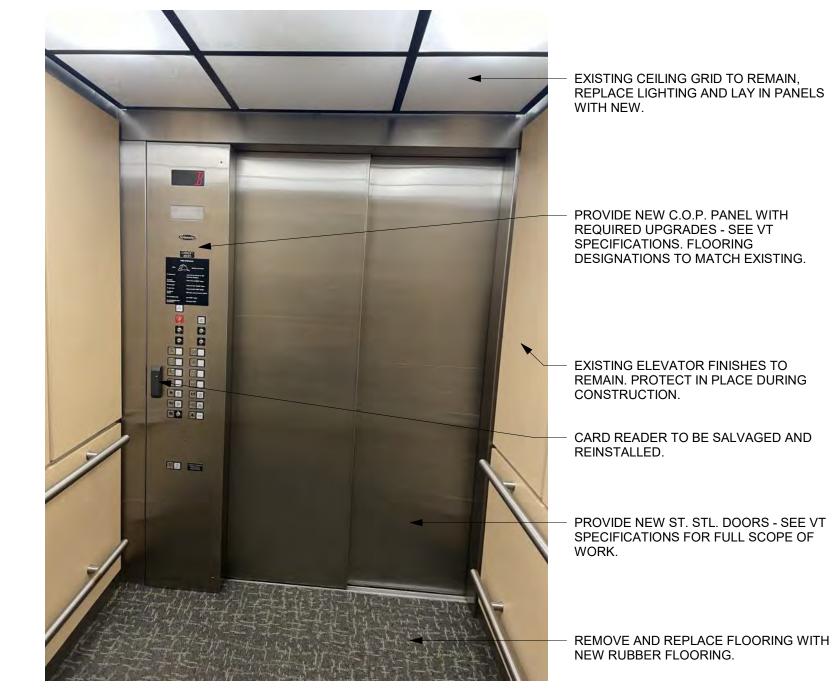
- PROVIDE NEW FIXTURES. FIXTURES

SHOULD COMPLETELY COVER EXISTING

CURTAIN TO BE AT END OF

OPENINGS.

HALLWAY THAT IS TO REMAIN. PROTECT



PROVIDE NEW C.O.P. PANEL WITH REQUIRED UPGRADES - SEE VT SPECIFICATIONS. FLOORING DESIGNATIONS TO MATCH EXISTING.

- EXISTING ELEVATOR FINISHES TO REMAIN. PROTECT IN PLACE DURING CONSTRUCTION.

- CARD READER TO BE SALVAGED AND REINSTALLED.

PROVIDE NEW ST. STL. DOORS - SEE VT SPECIFICATIONS FOR FULL SCOPE OF

REMOVE AND REPLACE FLOORING WITH NEW RUBBER FLOORING.



- CARD READER TO BE SALVAGED AND REINSTALLED.

- EXISTING ELEVATOR FINISHES TO

REMAIN. PROTECT IN PLACE DURING CONSTRUCTION.

- ALL REQUIRED SIGNAGE TO BE

ENGRAVED ON C.O.P. PANEL.

PROVIDE NEW C.O.P. PANEL

WITH REQUIRED UPGRADES -

FLOORING DESIGNATIONS TO

SEE VT SPECIFICATIONS.

MATCH EXISTING.

ELEVATOR CONSULTANT **LERCH BATES** 7625 GOLDEN TRIANGLE DRIVE,

220 SE 6TH STREET, SUITE 200

DES MOINES, IA 50309

100 Court Ave., Suite 100 Des Moines, IA 50309 P: 515-309-0722

www.opnarchitects.com

rights, including the copyright thereto.

© 2025 OPN Architects, Inc.

STATE OF IOWA

215 E 7th STREET

CONSTRUCTION MANAGER

**DCI GROUP** 

Des Moines, IA 50319

109 SE 13TH STREET

DES MOINES, IA 50319

ORAN PAPE ELEVATOR MOD.

Owner

All reports, plans, specifications, computer files, field data,

notes and other documents and instruments prepared by

OPN Architects, Inc. as instruments of service shall remain the property of OPN Architects, Inc. OPN Architects, Inc.

shall retain all common law, statutory and other reserved

SUITE T EDEN PRAIRIE, MN 55344 Mechanical Engineer

KCL ENGINEERING 300 4TH STREET WEST DES MOINES, IA 50317

Electrical Engineer KCL ENGINEERING 300 4TH STREET WEST DES MOINES, IA 50317



5 IMAGE 5

8 IMAGE 8

EXISTING CODE COMPLIANT ELEVATOR REQUIRED SIGNAGE CAN REMAIN.

PROVIDE NEW FIXTURES. FIXTURES SHOULD COMPLETELY COVER EXISTING OPENINGS AND MAINTAIN THE EXISTING

EXISTING CODE COMPLIANT ELEVATOR REQUIRED SIGNAGE CAN REMAIN.

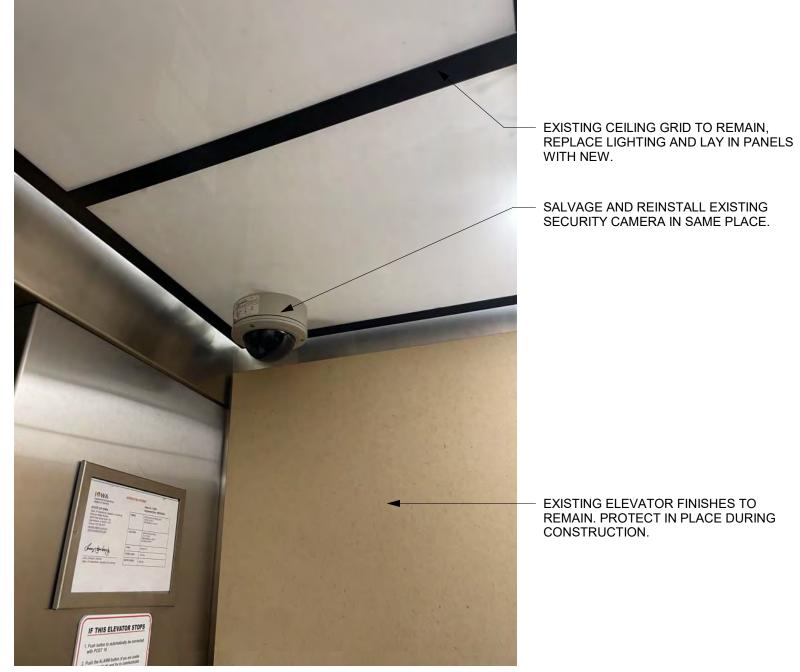
PROTECT ALL EXISTING HALLWAY FINISHES DURING CONSTRUCTION.

6 IMAGE 6

EXISTING ST. STL. FRAMES TO REMAIN -PROTECT IN PLACE. PROVIDE NEW ST. STL. DOORS - SEE VT DRAWING FOR FULL

ELEVATOR DOOR HAS EXISTING FIRE CURTAIN MOUNTED ABOVE FRAME IN HALLWAY THAT IS TO REMAIN. PROTECT IN PLACE DURING CONSTRUCTION. CURTAIN TO BE AT END OF

CONSTRUCTION - SEE ELECTRICAL.



EXISTING ELEVATOR FINISHES TO REMAIN. PROTECT IN PLACE DURING CONSTRUCTION.



PROVIDE NEW FIXTURES. FIXTURES SHOULD COMPLETELY COVER EXISTING OPENINGS AND MAINTAIN THE EXISTING FINISHES.

- EXISTING ST. STL. FRAMES TO REMAIN -PROTECT IN PLACE. PROVIDE NEW ST. STL. DOORS - SEE VT DRAWING FOR FULL SCOPE OF WORK.

EXISTING CODE COMPLIANT ELEVATOR REQUIRED SIGNAGE CAN REMAIN.

PROVIDE NEW FIXTURES. FIXTURES SHOULD COMPLETELY COVER EXISTING OPENINGS AND MAINTAIN THE EXISTING FINISHES.

- PROTECT ALL EXISTING HALLWAY FINISHES DURING CONSTRUCTION.



SHOULD COMPLETELY COVER EXISTING

1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 25 |

PROVIDE NEW FIXTURES. FIXTURES

OPENINGS.

EXISTING CODE COMPLIANT ELEVATOR

REQUIRED SIGNAGE CAN REMAIN.

EXISTING CEILING GRID TO REMAIN, REPLACE LIGHTING AND LAY IN PANELS WITH NEW. EXISTING ELEVATOR FINISHES TO REMAIN. PROTECT IN PLACE DURING CONSTRUCTION. EXISTING RAILINGS TO REMAIN. PROVIDE NEW ST. STL. DOORS - SEE VT SPECIFICATIONS FOR FULL SCOPE OF REMOVE AND REPLACE FLOORING WITH NEW RUBBER FLOORING.

OPN Project No. 24850000

Sheet Issue Date

Key Plan

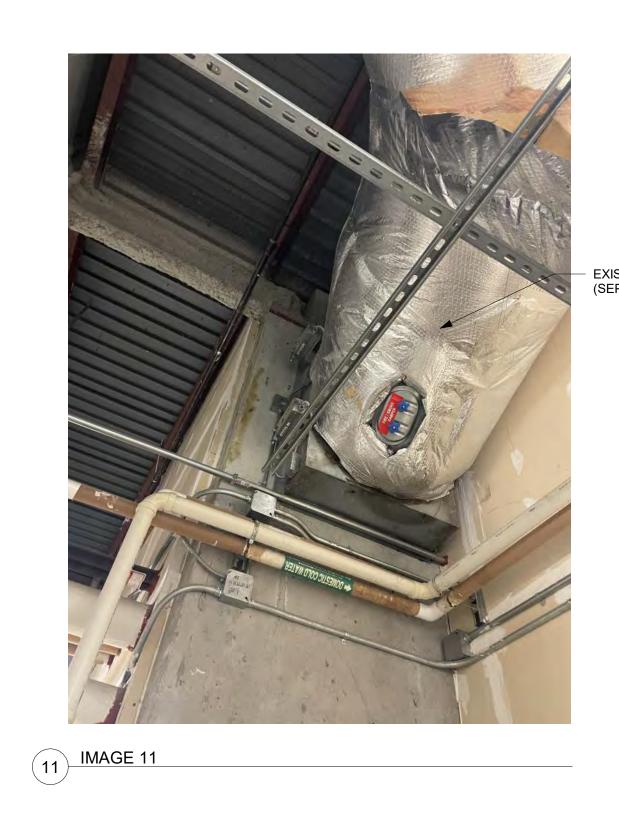
Revision Description

Sheet Name

Sheet Number

**AD200.2** 

03/14/2025 **EXISTING CONDITIONS** 



EXISTING BUILDING SUPPLY IN ADJACENT (SEPARATE) SHAFT NEXT TO ELEVATOR SHAFT.

- EXISTING LADDER FOR ACCESS TO GOVERNOR. MAINTAIN PROPER CODE ACCESS TO EQUIPMENT. REQUIRED SHAFT PROTECTION - MAINTAIN OR PROVIDE NEW AS REQUIRED BY NEW

ELEVATOR EQUIPMENT.

1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 25 |

REMOVE AND REPLACE EXISTING ELEVATOR MACHINERY - SEE VT SPECIFICATIONS FOR SPECIFIC REQUIREMENTS.

REPLACE EXISTING THERMOSTAT AND MECHANICAL UNIT - SEE MECHANICAL.

> REMOVE AND REPLACE EXISTING ELEVATOR CONTROLLER - SEE VT SPECIFICATIONS FOR SPECIFIC REQUIREMENTS.

> > ELEVATOR CONSULTANT **LERCH BATES** 7625 GOLDEN TRIANGLE DRIVE, SUITE T EDEN PRAIRIE, MN 55344

DES MOINES, IA 50309

100 Court Ave., Suite 100 Des Moines, IA 50309 P: 515-309-0722

www.opnarchitects.com

rights, including the copyright thereto.

© 2025 OPN Architects, Inc.

STATE OF IOWA

215 E 7th STREET

Des Moines, IA 50319

CONSTRUCTION MANAGER

DCI GROUP

109 SE 13TH STREET

DES MOINES, IA 50319

ORAN PAPE ELEVATOR MOD.

220 SE 6TH STREET, SUITE 200

Owner

All reports, plans, specifications, computer files, field data,

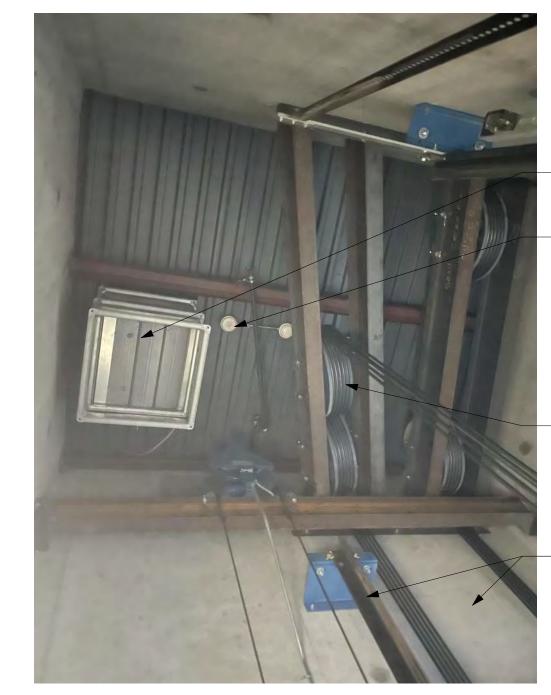
notes and other documents and instruments prepared by OPN Architects, Inc. as instruments of service shall remain the property of OPN Architects, Inc. OPN Architects, Inc. shall retain all common law, statutory and other reserved

Mechanical Engineer KCL ENGINEERING 300 4TH STREET

Electrical Engineer KCL ENGINEERING 300 4TH STREET

WEST DES MOINES, IA 50317

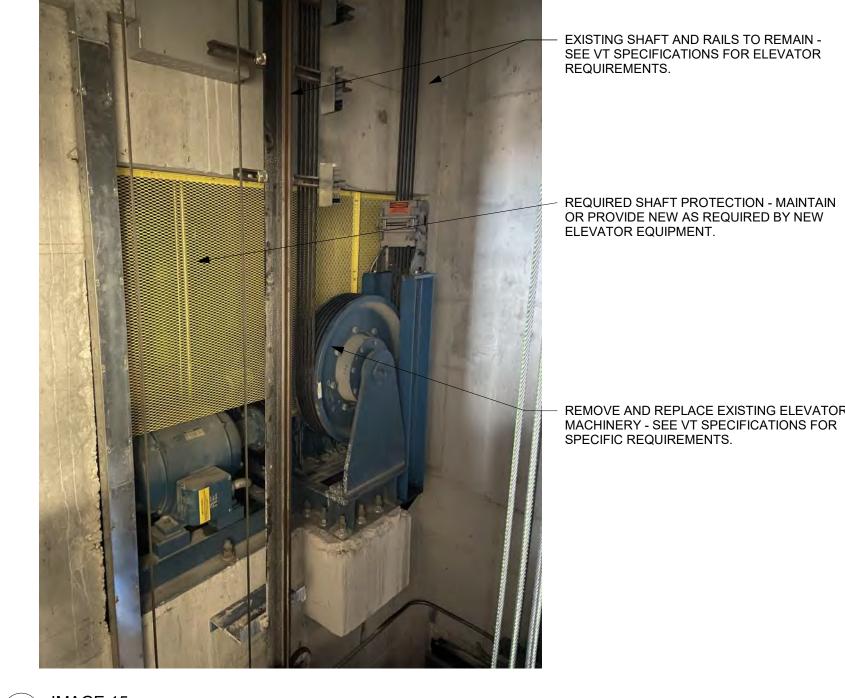
WEST DES MOINES, IA 50317



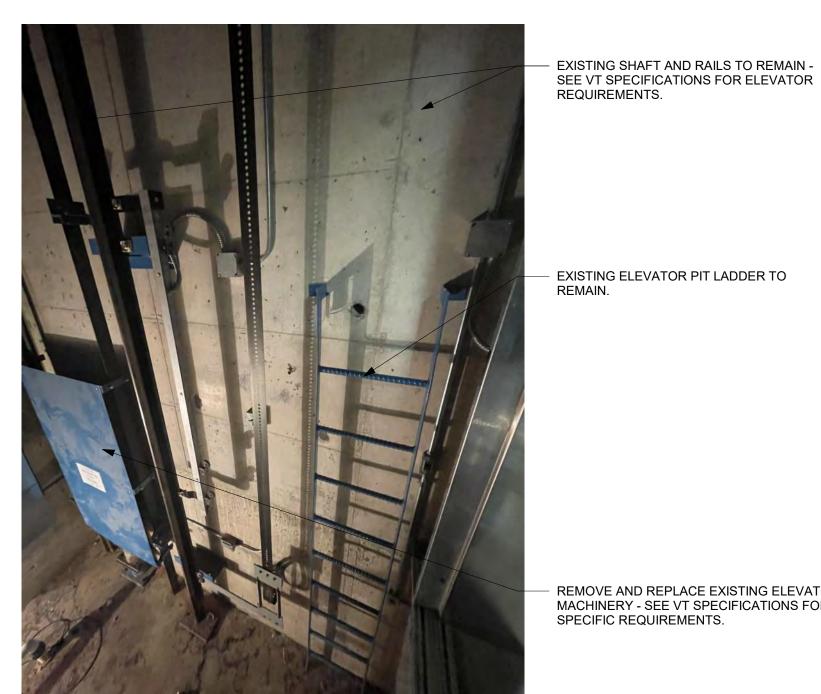
EXISTING ELEVATOR HOISTWAY VENTILATION TO BE MAINTAINED. EXISTING ELEVATOR HOISTWAY DETECTION - SEE ELECTRICAL.

REMOVE AND REPLACE EXISTING ELEVATOR MACHINERY - SEE VT SPECIFICATIONS FOR SPECIFIC REQUIREMENTS.

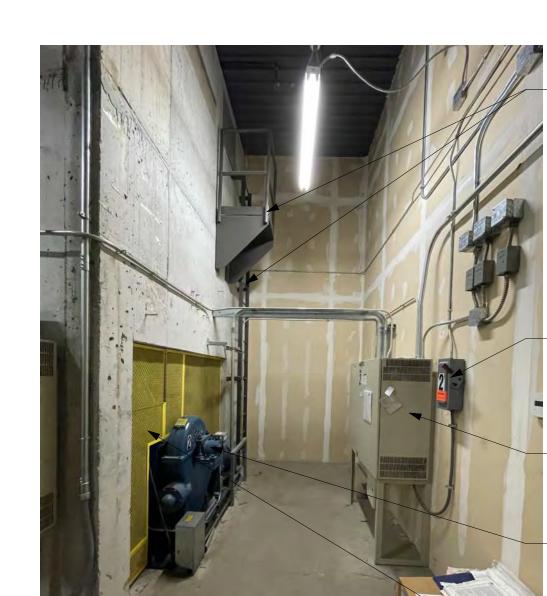
EXISTING SHAFT AND RAILS TO REMAIN -SEE VT SPECIFICATIONS FOR ELEVATOR REQUIREMENTS.



REMOVE AND REPLACE EXISTING ELEVATOR MACHINERY - SEE VT SPECIFICATIONS FOR SPECIFIC REQUIREMENTS.



REMOVE AND REPLACE EXISTING ELEVATOR
MACHINERY - SEE VT SPECIFICATIONS FOR SPECIFIC REQUIREMENTS.



17 IMAGE 17

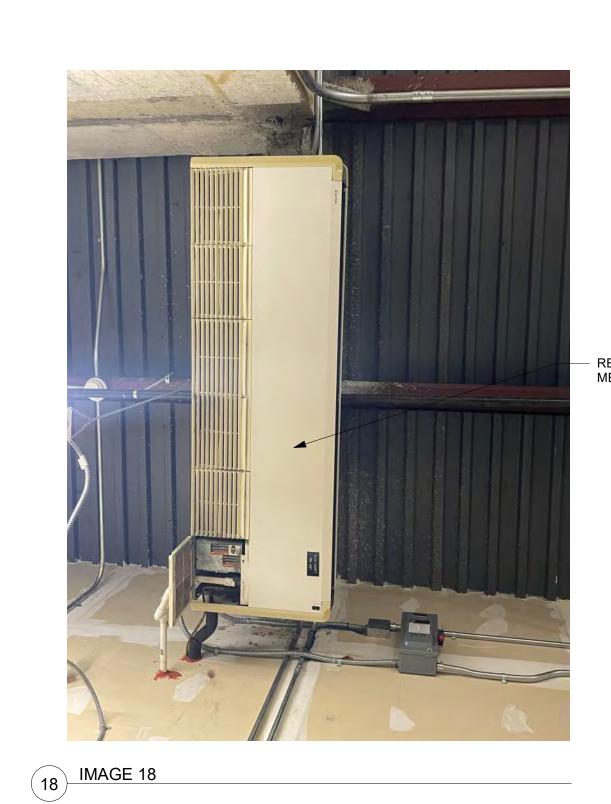
- EXISTING LADDER AND PLATFORM FOR ACCESS TO GOVERNOR. MAINTAIN PROPER CODE ACCESS TO EQUIPMENT.

- ELECTRICAL DISCONNECT - SEE ELECTRICAL.

REMOVE AND REPLACE EXISTING ELEVATOR CONTROLLER - SEE VT SPECIFICATIONS FOR SPECIFIC REQUIREMENTS.

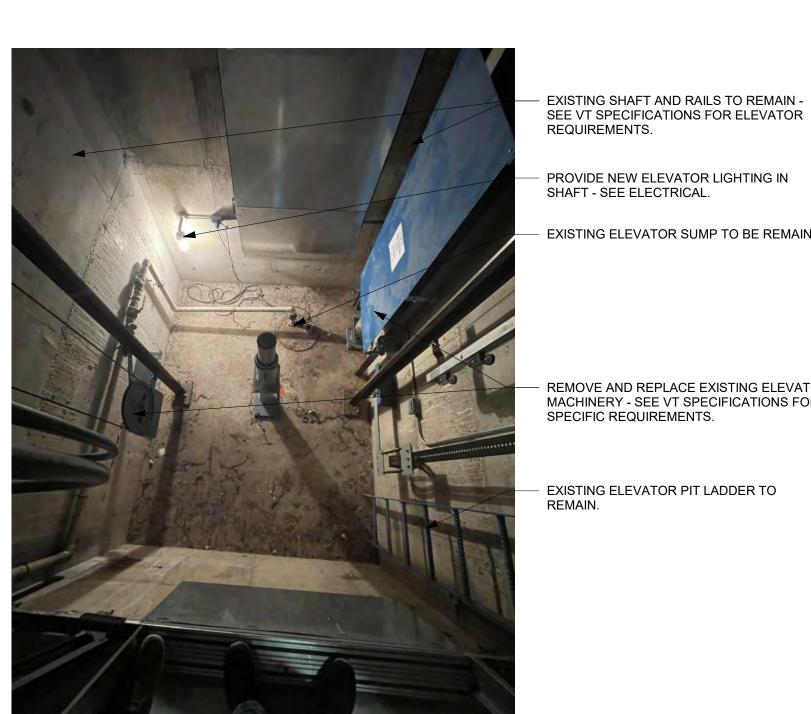
REMOVE AND REPLACE EXISTING ELEVATOR MACHINERY - SEE VT SPECIFICATIONS FOR SPECIFIC REQUIREMENTS.

REQUIRED SHAFT PROTECTION - MAINTAIN OR PROVIDE NEW AS REQUIRED BY NEW ELEVATOR EQUIPMENT.



REMOVE AND REPLACE EXISTING MECHANICAL UNIT - SEE MECHANICAL.

1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 25 |



PROVIDE NEW ELEVATOR LIGHTING IN SHAFT - SEE ELECTRICAL. - EXISTING ELEVATOR SUMP TO BE REMAIN.

REMOVE AND REPLACE EXISTING ELEVATOR MACHINERY - SEE VT SPECIFICATIONS FOR SPECIFIC REQUIREMENTS.

EXISTING ELEVATOR PIT LADDER TO

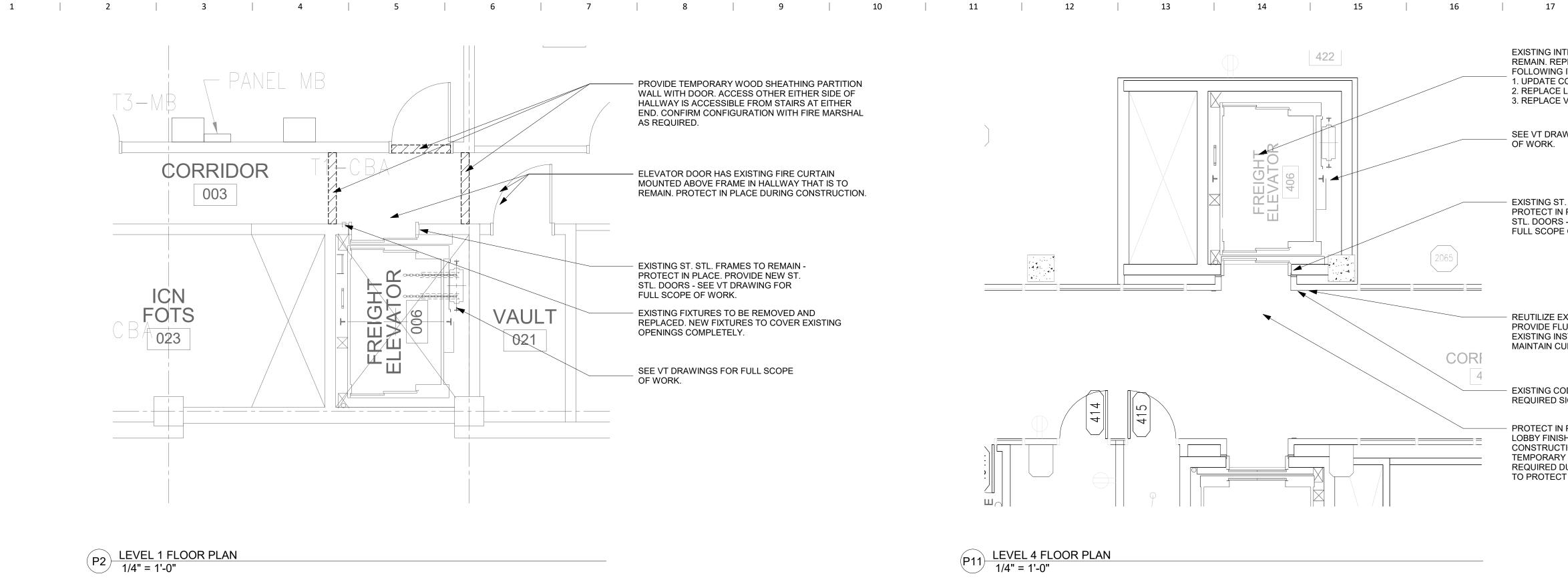
OPN Project No. 24850000 Sheet Issue Date

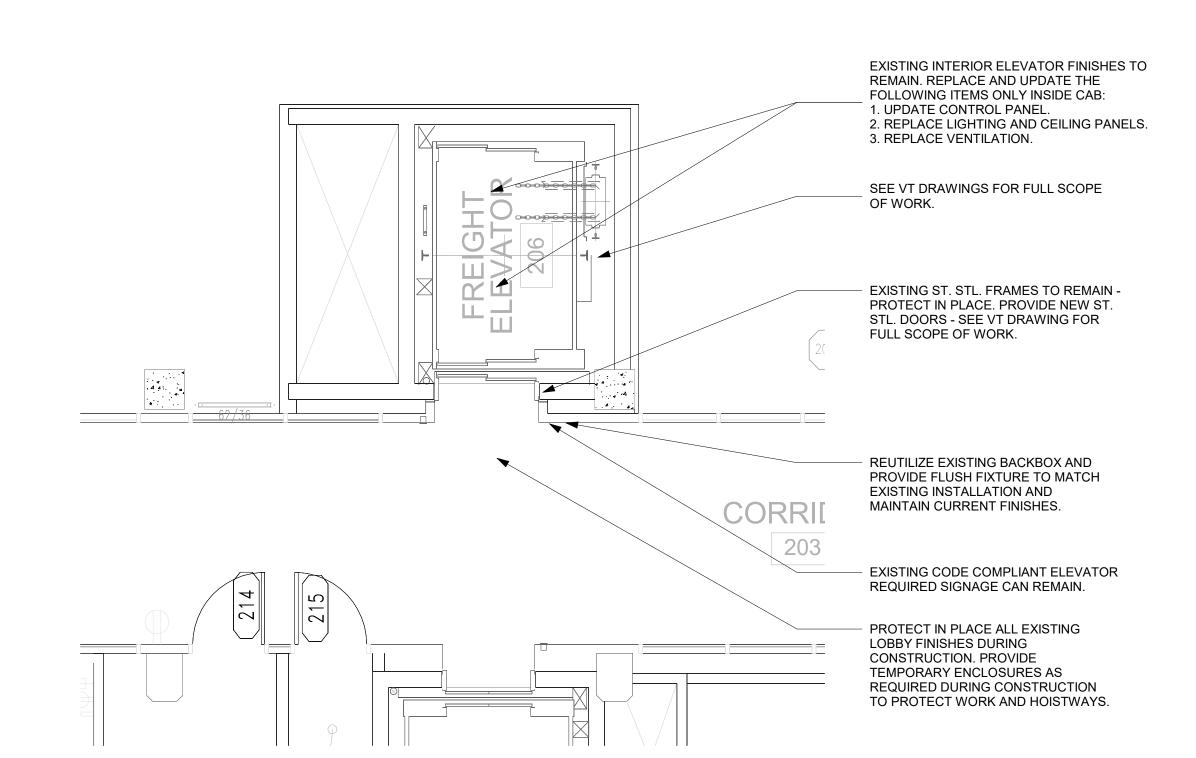
Sheet Name

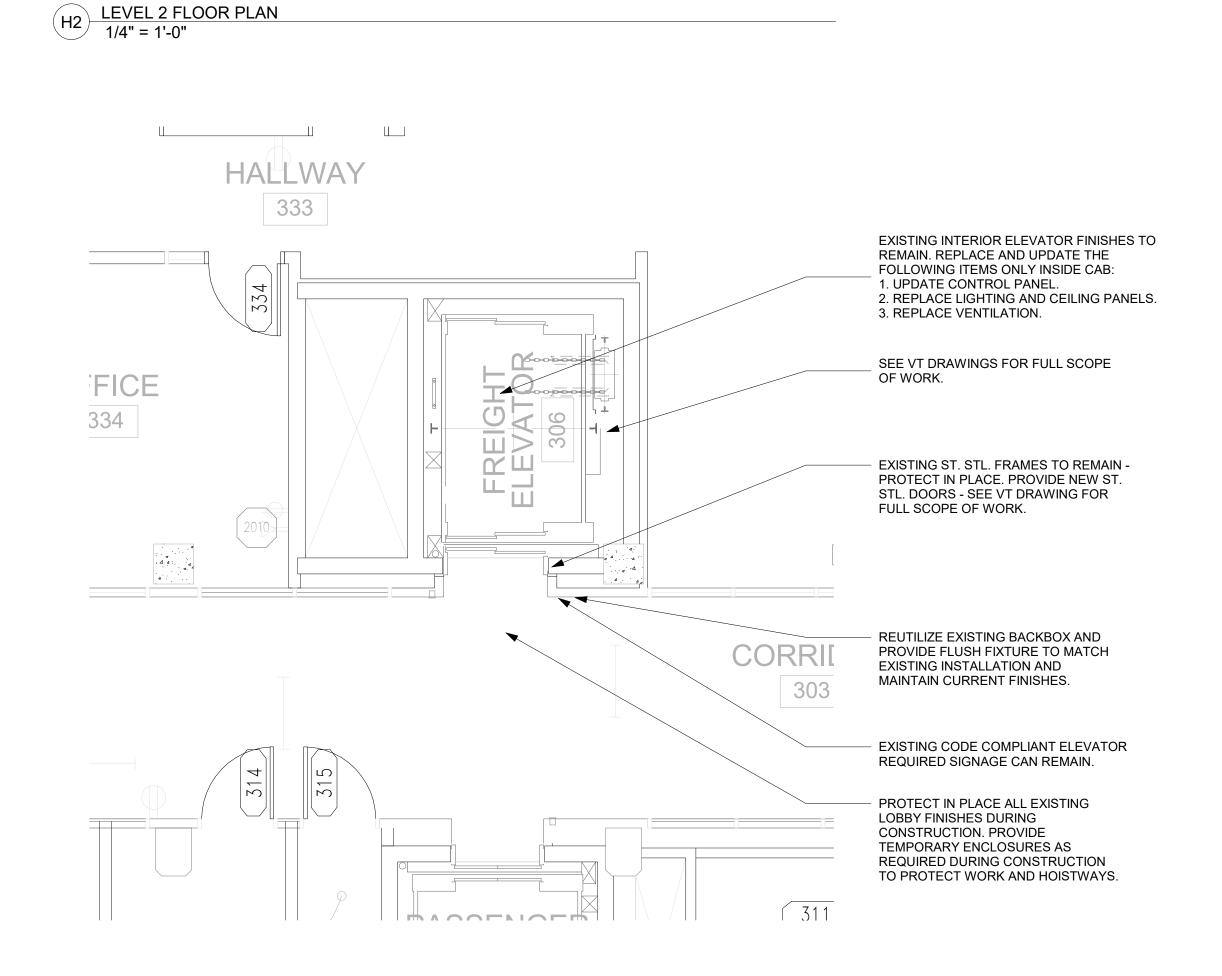
Key Plan

**EXISTING CONDITIONS** 

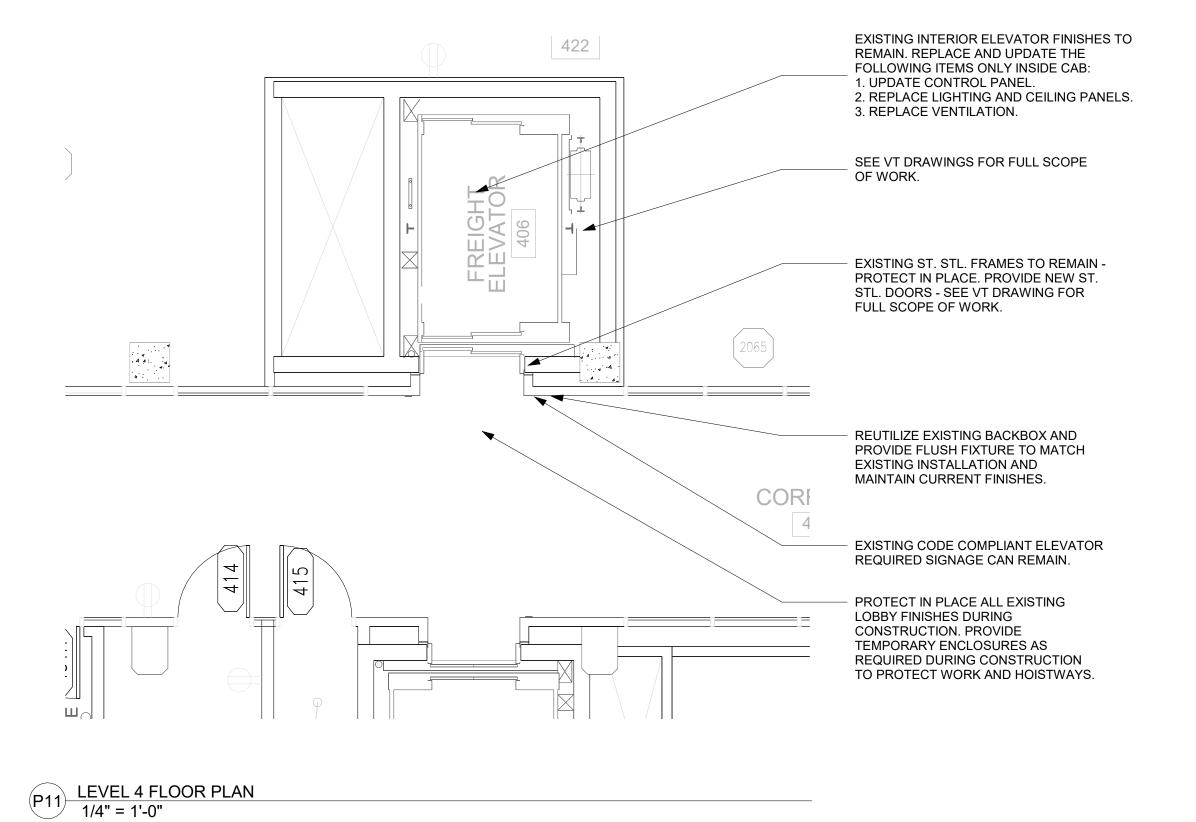
Sheet Number AD201.2

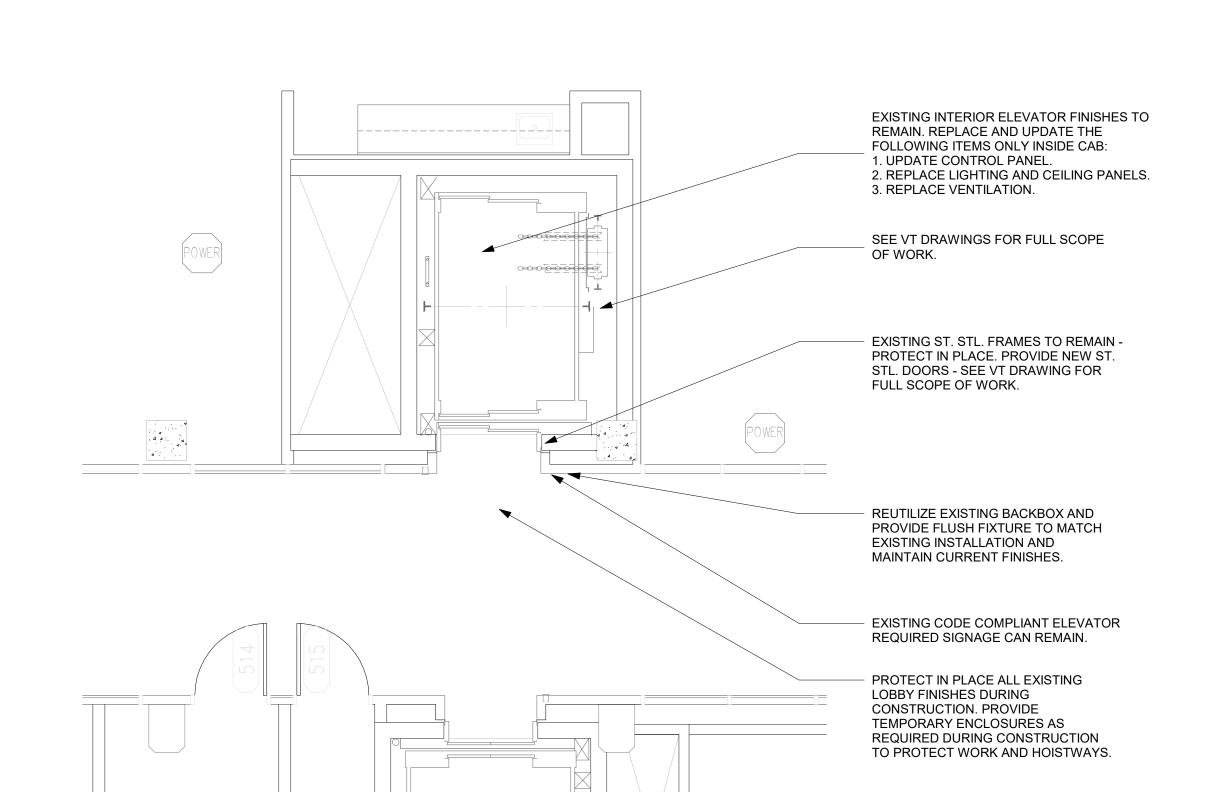


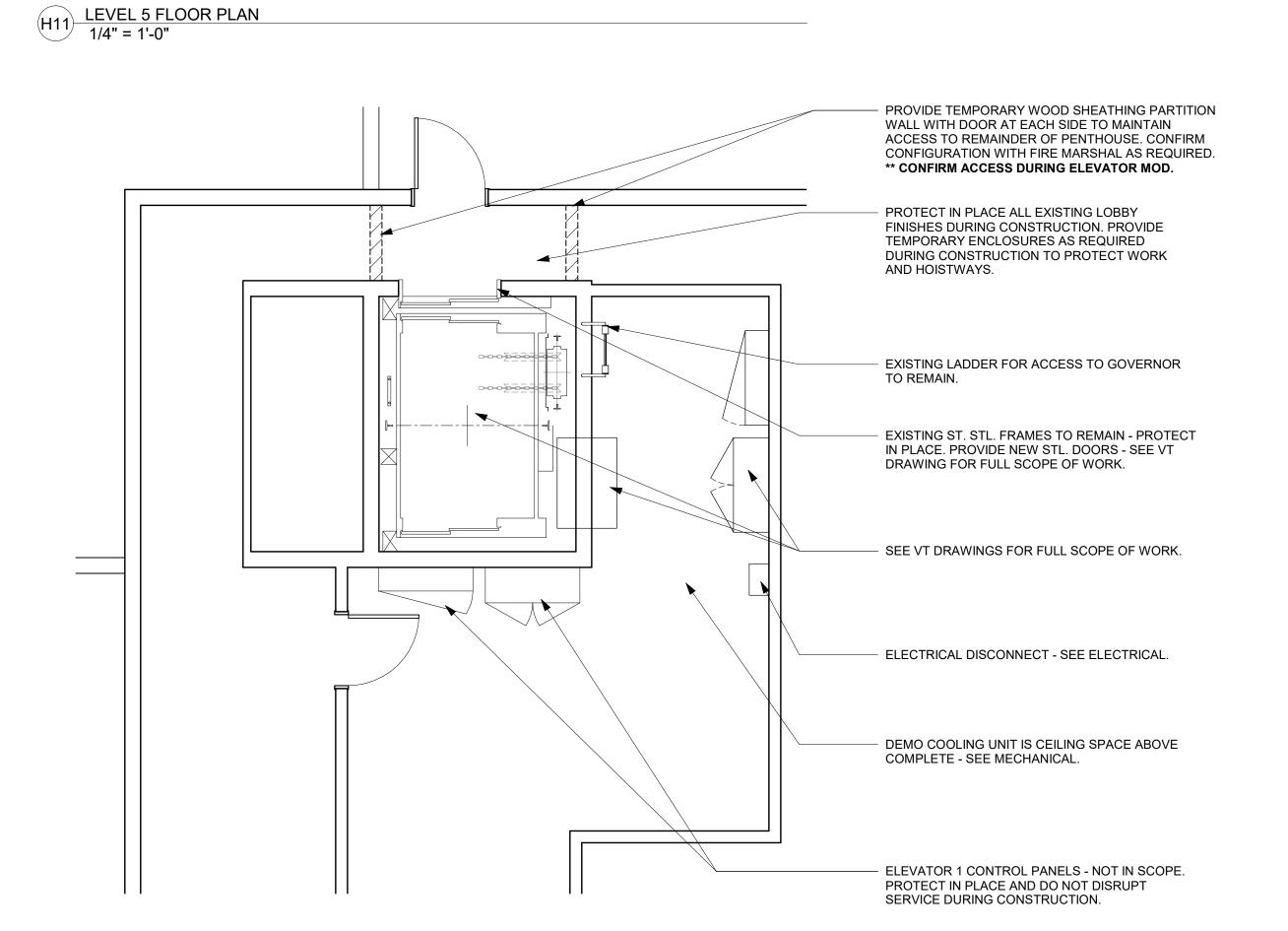




A2 LEVEL 3 FLOOR PLAN
1/4" = 1'-0"







A11 PENTHHOUSE FLOOR PLAN 1/4" = 1'-0"

1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 21 | 22 | 23 | 24 | 25

**GENERAL NOTES** 

1. DIMENSIONS ARE MEASURED FACE OF-FINISH TO FACE-OF-FINISH OR ROUGH MASONRY OPENING UNLESS NOTED OTHERWISE - TYPICAL FOR ALI

DRAWINGS. 2. FIELD VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS - TYPICAL FOR ALL DRAWINGS.

3. IN THE EVENT OF A DISCREPANCY BETWEEN ARCHITECTURAL AND CONSULTANT DRAWINGS, NOTIFY ARCHITECT IMMEDIATELY PRIOR TO COMMENCING WORK - TYPICAL FOR ALL DRAWINGS. 4. ALL PENETRATIONS IN FIRE RATED

FLOORS AND WALLS MUST BE SEALED WITH APPROPRIATE FIRESTOPPING 5. PATCH AND REPAIR EXISTING FLOOR SLABS AND WALL SURFACES DAMAGED FROM DEMOLITION.

> DES MOINES, IA 50319 ORAN PAPE ELEVATOR MOD.

100 Court Ave., Suite 100

www.opnarchitects.com

rights, including the copyright thereto.

© 2025 OPN Architects, Inc.

STATE OF IOWA

215 E 7th STREET

Des Moines, IA 50319

109 SE 13TH STREET

All reports, plans, specifications, computer files, field data,

notes and other documents and instruments prepared by OPN Architects, Inc. as instruments of service shall remain

the property of OPN Architects, Inc. OPN Architects, Inc.

shall retain all common law, statutory and other reserved

Des Moines, IA 50309

P: 515-309-0722

CONSTRUCTION MANAGER **DCI GROUP** 220 SE 6TH STREET, SUITE 200

DES MOINES, IA 50309 ELEVATOR CONSULTANT **LERCH BATES** 

7625 GOLDEN TRIANGLE DRIVE, SUITE T EDEN PRAIRIE, MN 55344 Mechanical Engineer KCL ENGINEERING

300 4TH STREET

WEST DES MOINES, IA 50317 Electrical Engineer KCL ENGINEERING 300 4TH STREET

WEST DES MOINES, IA 50317

Key Plan

Revision Description

OPN Project No. 24850000

Sheet Issue Date **BID SET** 03/14/2025

Sheet Name **FLOOR PLANS** 

Sheet Number A100.2

#### **MECHANICAL - GENERAL NOTES**

- COORDINATE MECHANICAL AND ELECTRICAL WORK WITH ALL OTHER TRADES. BEGIN INSTALLATION AND ROUGH-IN AFTER COORDINATION WITH ALL TRADES ASSOCIATED WITH THE INSTALLATION IS COMPLETE. COORDINATE BUILDING STRUCTURE, ARCHITECTURAL ASSEMBLIES, SHEET METAL, ALL PIPING SYSTEMS, LIGHT FIXTURES, CONDUITS, CABLE TRAYS, ETC. REFER TO ALL GENERAL, MECHANICAL, AND ELECTRICAL DRAWINGS AND SPECIFICATIONS FOR THIS PROJECT. CONTRACTOR IS RESPONSIBLE FOR REWORK ASSOCIATED WITH FAILURE TO COORDINATE.
- INCORPORATE MECHANICAL SPECIFICATIONS, DRAWINGS, STATE AND LOCAL CODES, AND OWNER STANDARDS INTO WORK.
- REFER TO ARCHITECTURAL SPECIFICATIONS FOR THROUGH-PENETRATION FIRESTOPPING AND TO ARCHITECTURAL CODE PLAN FOR FIRE RATED WALLS, FLOORS, AND CEILINGS. EACH TRADE IS RESPONSIBLE TO FIRESTOP PENETRATIONS THROUGH RATED ASSEMBLIES.
- EACH TRADE IS RESPONSIBLE FOR MAKING PENETRATIONS WHERE REQUIRED IN EXISTING WALLS, FLOORS, CEILINGS, AND ROOFS. MAKE PENETRATIONS NEAT. PATCH, CONCEAL, OR CAULK OVERCUT.
- COVER EXPOSED WALL PENETRATIONS WITH ESCUTCHEONS OR SHEET METAL AS APPROPRIATE.
- CAULK ALL CONCEALED AND EXPOSED PIPING AND DUCT WALL PENETRATIONS TO PREVENT NOISE TRANSFER BETWEEN SPACES.
- CREATE OPENINGS IN THE BUILDING THAT ARE REQUIRED TO REMOVE EXISTING ITEMS AND TO BRING IN NEW EQUIPMENT. PATCH ALL OPENINGS CREATED AND FINISHED WITH MATERIALS TO MATCH EXISTING CONDITIONS. INCLUDE THIS WORK IN BID.
- ON COMPLETION OF THE INSTALLATION. COOPERATE WITH THE OWNER TO PROVIDE TESTING, ADJUSTING, AND BALANCING TO OBTAIN PROPER OPERATION OF ALL EQUIPMENT AND SYSTEMS. PROVIDE ALL FACILITIES AND EQUIPMENT AND COMPLETE ALL TESTS REQUIRED FOR ADJUSTMENTS AND BALANCING TO ESTABLISH THE PROPER PERFORMANCE OF EQUIPMENT.
- PROVIDE WARRANTIES FOR ALL EQUIPMENT AND INSTALLATION PER THE CONTRACT DOCUMENTS. CONDITIONING REFRIGERATION SYSTEMS SHALL BE WARRANTED FOR A MINIMUM OF 5 YEARS, PARTS ONLY, NON-PRORATED, FROM THE DATE OF OCCUPANCY OR SUBSTANTIAL COMPLETION, OR WHICHEVER OCCURS FIRST. THE WARRANTY SHALL COVER COMPRESSORS, EVAPORATORS, CONDENSER COILS, HIGH AND LOW SIDE PIPING, AND PIPING SPECIALTIES INCLUDING EXPANSION AND SOLENOID VALVES, RELIEF VALVES, FILTER-DRYER, AND SIGHT GLASSES. PRESSURE GAUGES AND PRESSURE SWITCHES ARE NOT UNDER THE EXTENDED WARRANTY EXCEPT FOR LOSS OF REFRIGERANT AND CONSEQUENTIAL DAMAGE TO THE SYSTEM WHICH WILL BE AN EXTENDED WARRANTY OBLIGATION. ALL DEFECTS THAT BECOME APPARENT WITHIN THE WARRANTY PERIOD SHALI BE REPAIRED BY THE MECHANICAL CONTRACTOR AS DIRECTED BY THE ENGINEER THROUGH THE OWNER'S REPRESENTATIVE. WARRANTY DOES NOT OBLIGATE THE MECHANICAL CONTRACTOR TO REPAIR DAMAGE RESULTING FROM THE OWNER'S ACCIDENT, IMPROPER OPERATION, OR FAILURE TO PROVIDE MAINTENANCE. WARRANTY COVERS DEFECTIVE MATERIAL AND INSTALLATION. REFER TO SPECIFICATIONS FOR ADDITIONAL DETAILS AND OTHER WARRANTY INFORMATION.

### **MECHANICAL – DEMOLITION NOTES**

- MECHANICAL DEMOLITION DRAWINGS SHOWING EXISTING CONDITIONS HAVE BEEN PREPARED BASED ON NON-DESTRUCTIVE FIELD OBSERVATION AND AS-BUILT DRAWINGS PROVIDED BY THE OWNER. FIELD VERIFY EXISTING SYSTEMS BEFORE BEGINNING WORK. NOTIFY ARCHITECT/ENGINEER IF EXISTING CONDITIONS ARE MATERIALLY DIFFERENT THAN THOSE SHOWN ON THE PLANS.
- BE FAMILIAR WITH EXISTING MECHANICAL SYSTEMS THAT WILL BE AFFECTED BY THE DEMOLITION WORK, OBTAIN PERMISSION FROM THE OWNER'S REPRESENTATIVE TO SHUT OFF SERVICES OR SYSTEMS THAT AFFECT AREAS BEYOND THE LIMITS OF THE IMMEDIATE DEMOLITION AREA. INFORM THE OWNER'S REPRESENTATIVE OF THE REASON FOR AND DURATION OF THE SHUTDOWN. MINIMIZE IMPACT TO OTHER AREAS. PROCEED WITH THE SHUT-DOWN AFTER PERMISSION FROM THE OWNER IS GRANTED.
- REMOVE PIPING, HANGERS, DUCTWORK, GRILLES, REGISTERS, DIFFUSERS, ETC. THAT ARE INDICATED TO BE REMOVED IN A TIMELY MANNER IN ACCORDANCE WITH THE GENERAL DEMOLITION SPECIFICATIONS. COORDINATE WITH THE OWNER AND OTHER CONTRACTORS.

REFERENCE

**MANUFACTURER** 

MODEL#

**TYPE** 

**SERVES** 

WEIGHT (LBS)

**DIMENSIONS - L x W x D (INCHES)** 

**EXTERNAL STATIC PRESSURE (IN. W.G.)** 

**ELECTRICAL DATA** 

1. PROVIDE WITH REMOTE WALL MOUNTED THERMOSTAT. WIRING BY M.C.

COOLING CAPACITY - RATED (BTU/H)

INSTALLATION AND DISCONNECT BY E.C.

NOMINAL CAPACITY (TONS)

MAX UNIT AIRFLOW (CFM)

**REFRIGERANT TYPE** 

4. PROVIDE FILTER WITH UNIT.

5. UNIT IS COOLING ONLY.

**VOLTAGE - PH** 

MCA

**MOCP** 

**NOTES** 

SPLIT SYSTEM INDOOR UNIT SCHEDULE

EXTEND EXISTING SIEMENS CONTROL SYSTEM AS REQUIRED FOR

ADDITIONAL SENSOR NEAR ELEVATOR EQUIPMENT.

#### PROVIDE FIRE CAULKING ASSEMBLIES FOR PENETRATIONS OF RATED ASSEMBLIES. REFER TO ARCHITECTURAL DRAWINGS FOR ASSEMBLY RATINGS.

**MITSUBISHI** 

PKA-A36

WALL MOUNT

ORAN PAPE

41x52x13

3.00

920

0.2

36,000

20.3

R454B

208 - 1

1.00

SEE SSO SCHEDULE

1 THROUGH 5

MECHANICAL GENERAL NOTE #1.

PROVIDE MECHANICAL EQUIPMENT, SUPPORTS, HANGERS, AND ALL APPURTENANCES. INSTALL ALL EQUIPMENT PER MANUFACTURER'S RECOMMENDATIONS. INSTALL SYSTEM TO MEET ALL CITY AND STATE CODES AND REQUIREMENTS.

COORDINATE WORK WITH ALL OTHER TRADES AS DESCRIBED IN

- CONTINUE PIPE INSULATION THROUGH WALLS, FLOORS, AND CEILING PENETRATIONS UNBROKEN, EXCEPT WHERE FIRE OR FIRE/SMOKE DAMPERS ARE INSTALLED IN DUCTWORK.

#### **ELECTRICAL ABBREVIATIONS** NIC NOT IN CONTRACT A DEVICE MOUNTED +8" ABOVE COUNTER TOP (VERIFY LOCATION) NM NONMETALLIC AFF ABOVE FINISHED FLOOR NTS NOT TO SCALE ATS AUTOMATIC TRANSFER SWITCH OC ON CENTER OFCI OWNER FURNISHED CEILING CIRCUIT BREAKER CONTRACTOR INSTALLED CURRENT TRANSFORMER OFOI OWNER FURNISHED, EXISTING ITEM TO REMAIN OWNER INSTALLED EXISTING ITEM TO BE REMOVED ELECTRICAL CONTRACTOR RR EXISTING ITEM TO BE REMOVED AND EM EMERGENCY LIGHT FIXTURE ER NEW LOCATION OF EXISTING ITEM RELOCATED ROUGH IN FOR FUTURE DEVICE RN EXISTING ITEM TO BE REMOVED AND FAAP FIRE ALARM ANNUNCIATOR PANEL REPLACED WITH NEW

2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 21 | 22 | 23 | 24 | 25

SCCR SHORT CIRCUIT CURRENT RATING

UPS UNINTERRUPTIBLE POWER SUPPLY

TCC TEMPERATURE CONTROL CONTRACTOR

+24" INDICATES MOUNTING HEIGHT CENTER

LINE OF DEVICE TO FINISHED FLOOR

TAMPER PROOF DEVICE

WEATHERPROOF DEVICE

WR WEATHER RESISTANT DEVICE

TELEVISION

WG WIREGUARD COVER

TYP TYPICAL

VOLTS VA VOLT-AMPERES

## **GENERAL NOTES - ELECTRICAL**

FACP FIRE ALARM CONTROL PANEL

MC MECHANICAL CONTRACTOR

MDP MAIN DISTRIBUTION PANEL

N NEW DEVICE IN EXISTING LOCATION

MCB MAIN CIRCUIT BREAKER

GROUND FAULT CIRCUIT INTERRUPTER

FSD FIRE SMOKE DAMPER

KVA KILO-VOLT-AMPERES

MLO MAIN LUGS ONLY

GND GROUND

KW KILOWATTS

COORDINATE LOCATION/INSTALLATION OF MECHANICAL AND ELECTRICAL WORK WITH ALL OTHER TRADES. BEGIN INSTALLATION AND ROUGH-IN ONLY AFTER PROPER AND TIMELY COORDINATION WITH ALL TRADES ASSOCIATED WITH THE INSTALLATION IS COMPLETE. COORDINATE WITH BUILDING STRUCTURE, ARCHITECTURE, MECHANICAL SHEET METAL, ALL PIPING SYSTEMS, LIGHT FIXTURES, CONDUITS, CABLE TRAYS, EQUIPMENT ACCESS/CLEARANCE, ETC. REFER TO ALL GENERAL, MECHANICAL, AND ELECTRICAL DRAWINGS AND SPECIFICATIONS FOR THIS PROJECT. CONTRACTOR IS RESPONSIBLE FOR REWORK OF INSTALLED EQUIPMENT RESULTING FROM INSUFFICIENT COORDINATION.

ELECTRICAL DRAWINGS ARE ONLY A PORTION OF THE COMPLETE SET OF PLANS AND CONTRACT DOCUMENTS. THE ELECTRICAL SCOPE OF WORK IS DEFINED BY THE COMPLETE SET OF CONTRACT DOCUMENTS. THIS INCLUDES BUT IS NOT LIMITED TO REFERENCING: ARCHITECTURAL PLANS FOR DIMENSIONS AND DETAILS; EQUIPMENT PLANS FOR ROUGH-IN REQUIREMENTS, MECHANICAL PLANS FOR EQUIPMENT SIZES AND LOCATIONS.

#### **INSTALLATION NOTES - ELECTRICAL**

- INCREASE CONDUCTOR SIZES ON 20A 120V-1 PHASE CIRCUITS EXCEEDING 100 FEET TO CENTER OF LOAD TO ACCOUNT FOR VOLTAGE DROP.
- RACEWAYS AND BOXES ARE SHOWN DIAGRAMMATICALLY ONLY AND INDICATE GENERAL AND APPROXIMATE LOCATIONS. LAYOUTS DO NOT ALWAYS SHOW THE TOTAL NUMBER OF RACEWAYS OR BOXES FOR THE CIRCUITS REQUIRED, NOR ARE THE LOCATIONS OF INDICATED RUNS INTENDED TO SHOW THE ACTUAL ROUTING OF THE RACEWAYS.
- LIGHT FIXTURES, SWITCHES, DEVICES, ETC. ARE SHOWN IN PREFERRED LOCATION. MODIFY CONDUIT, HANGERS, CIRCUITING, ETC, TO PROVIDE A COMPLETE AND OPERATIONAL SYSTEM.
- PROVIDE A DEDICATED GREEN INSULATED GROUND CONDUCTOR TO ALL DEVICES. DO NOT USE CONDUIT SYSTEM AS THE ONLY EQUIPMENT GROUNDING METHOD.
- PROVIDE TYPED PANEL DIRECTORY AT PROJECT COMPLETION FOR NEW PANELS AND EXISTING PANELS WITH CIRCUITS MODIFIED DURING PROJECT. USE OWNER'S CURRENT ROOM NUMBERS AND EQUIPMENT NAMES. PROVIDE UNIQUE CIRCUIT IDENTIFICATION PER NEC 408.4(A)
- 6. CONTRACTOR IS RESPONSIBLE FOR OPENINGS IN WALLS, FLOORS, CEILINGS, AND ROOFS THAT ARE REQUIRED TO COMPLETE THEIR SCOPE OF WORK. SEAL PENETRATIONS IN ACCORDANCE WITH THE RATING OF THE AFFECTED ASSEMBLY. REFER TO ARCHITECTURAL CODE PLAN FOR RATED WALLS, FLOORS, AND CEILINGS.

#### CODE NOTES - ELECTRICAL

## PROVIDE ELECTRICAL INSTALLATION IN ACCORDANCE WITH STATE CODES.

- THE CURRENT ADOPTED EDITION OF THE ELECTRICAL CODE IS THE STANDARD FOR THE ELECTRICAL INSTALLATION. VERIFY WITH STATE OFFICIALS WHEN PERMITS ARE OBTAINED. NOTIFY DESIGN TEAM OF ANY DISCREPANCIES BETWEEN THE PROJECT MANUAL OR DRAWINGS AND THE GOVERNING CODE.
- INSTALLATION SHALL FOLLOW REQUIREMENTS OF THE ADAAG -AMERICANS WITH
- REFER TO PROJECT MANUAL AND PROJECT CODE REVIEW SHEET FOR LIST OF APPLICABLE
- PER NEC EVERY CIRCUIT AND CIRCUIT MODIFICATION SHALL BE LEGIBLY IDENTIFIED AS TO ITS CLEAR, EVIDENT AND SPECIFIC PURPOSE OR USE. CONTRACTOR TO PROVIDE FINAL

CIRCUIT IDENTIFICATION FOR ALL NEW AND MODIFIED CIRCUITS AT PROJECT COMPLETION.

## **DEVICE INSTALLATION AND MATERIALS - ELECTRICAL**

HEIGHT UNLESS OTHERWISE SPECIFICALLY INDICATED.

- PROVIDE NORMAL WIRING DEVICES AS <u>GRAY</u> UNLESS OTHERWISE NOTED.
- PROVIDE EMERGENCY WIRING DEVICES AS <u>ORANGE</u> UNLESS OTHERWISE NOTED.
- PROVIDE DEVICES COVER PLATES AS <u>STAINLESS STEEL</u>. MATCH WIRING DEVICES COLOR. PROVIDE GFCI TYPE RECEPTACLES AT ALL LOCATIONS REQUIRED BY THE NEC.
- INSTALL ABOVE COUNTERTOP RECEPTACLES +8" ABOVE COUNTERTOP OR AS OTHERWISE

AT A COMMON COUNTERTOP, INSTALL ALL RECEPTACLES AND SWITCHES AT THE SAME

## **FIRE DETECTION & ALARM NOTES**

- INSTALL HEAT DETECTORS IN WORK AREAS DURING CONSTRUCTION TO MINIMIZE FALSE TRIPS. INSTALL PERMANENT DETECTORS IN LOCATIONS SHOWN UPON CONSTRUCTION COMPLETION.
- INSTALL MODULES AT ELEVATOR EQUIPMENT TO PROVIDE PRIMARY RECALL, SECONDARY RECALL, FIRE HAT AND SHUNT TRIP. PROVIDE PROGRAMMING AS NECESSARY FOR FUNCTION SYSTEM.
- FIRE ALARM ITEMS AND DEVICES ARE SHOWN IN SUGGESTED LOCATIONS. FINAL LAYOUTS, LOCATIONS, AND QUANTITIES SHALL BE IN ACCORDANCE WITH APPLICABLE CODES. MANUFACTURER'S RECOMMENDATIONS. AND EQUIPMENT LISTINGS. COORDINATE LOCATIONS WITH LIGHTING AND AIR HANDLING SYSTEMS.
- ALL FIRE ALARM CIRCUITRY IN EXPOSED CEILING SPACES SHALL BE IN 3/4" CONDUIT PER SPECIFICATIONS. EXPOSED CABLING SHALL NOT BE ACCEPTED.
- ALL CONCEALED. ACCESSIBLE CEILING TILE LOCATIONS SHALL BE ALLOWED TO HAVE OPEN AIR CABLING INSTALLED. PROVIDE J-HOOKS, BRIDLE RINGS AND ASSOCIATED CABLE SUPPORTS TO KEEP INFRASTRUCTURE MANAGED AND OFF OF THE CEILING TILE.
- ELECTRICAL CONTRACTOR SHALL PROVIDE FIRESTOPPING AT ALL PENETRATIONS PER SPECIFICATION.

## **COMMUNICATION NOTES**

- REUSE EXISTING POTS LINE IN THE ELEVATOR EQUIPMENT ROOM FOR THE ELEVATOR TELEPHONE. REVISE LOCATION AND EXTEND AS NECESSARY FOR NEW EQUIPMENT
- INSTALL NEW DATA CABLING FROM IDF LOCATIONS SHOWN ON PLANS TO EACH ELEVATOR EQUIPMENT ROOM FOR NEW 2-WAY COMMUNICATION SYSTEM.

SPLIT SYSTEM OUTDOOR UNIT SCHEDULE									
REFERENCE	SSO-1								
MANUFACTURER	MITSUBISHI								
MODEL#	PUY-AK36NL								
SERVES	SSI-1								
WEIGHT (LBS)	211								
DIMENSIONS W/ CURB & ACCESSORIES - L x W x H (INCHES)	41x52x13								
NOMINAL CAPACITY (TONS)	3.00								
COOLING CAPACITY - RATED (BTU/H)	36,000								
REFRIGERANT TYPE	R454B								
COMPRESSOR QUANTITY	1								
EFFICIENCY	·								
SEER	20.3								
ELECTRICAL DATA									
VOLTAGE - PH	208 - 1								
MCA	34								
MOCP	56								
NOTES	1,2,3,4								

2. INDOOR UNIT RECEIVES POWER FROM OUTDOOR UNIT BY INTERCONNECTED WIRING PROVIDED WITH UNIT, WIRING

3. COOLING RATED CAPACITY IS BASED ON THE FOLLOWING CONDITIONS. INDOOR: 80°F/67°FF, OUTDOOR: 95°F/75°F

LIGHTING	SYMBOLS	GENERAL	SYMB
a	RECESSED LIGHT FIXTURE, LETTER INDICATES SWITCH LEG (TYPICAL), SHADING INDICATES EMERGENCY LIGHT (TYPICAL)	<del>□</del> 3	COND
$\overrightarrow{\lozenge}$	ROUND APERTURE RECESSED DOWNLIGHT FIXTURE, ARROW INDICATES WALLWASH	0	COND
0	SURFACE MOUNTED STRIP FIXTURE	•	CONDU
• •	LINEAR PENDANT MOUNTED FIXTURE	<b>①</b>	JUNCT
$\vdash \!$	INDUSTRIAL STRIP LIGHT FIXTURE	Ψ	JUNCT
	WALL MOUNTED STRIP LIGHT FIXTURE.	#)	KEYNC
4	EMERGENCY LIGHT FIXTURE, WALL MOUNT, +96" OR AS NOTED	(XXX) X	EQUIPI
<b>Þ</b> □4	EMERGENCY LIGHT FIXTURE, CEILING MOUNT	SIN	DETAIL
lacktriangle	EXIT SIGN, WALL MOUNT +96", SHADED AREAS INDICATE NUMBER OF FACES, ARROWS INDICATE SIGN ARROWS	A101	SHEET
<b>S</b>	EXIT SIGN, CEILING MOUNT, SHADED AREAS INDICATE NUMBER OF FACES, ARROWS INDICATE SIGN ARROWS	1 A101	SECTION SHEET
<b>\$</b> a	SINGLE POLE SWITCH, WALL MOUNT, LETTER INDICATES SWITCH LEG	A101	INTERI
<b>\$</b> 3 b	THREE WAY SWITCH, WALL MOUNT, LETTER INDICATES SWITCH LEG	A101 1	
P	PILOT LIGHT SWITCH, WALL MOUNT, LETTER INDICATES SWITCH LEG		DRAWI

## TECHNOLOGY RESPONSIBILITY MATRIX PROVISION RES **COMMUNICATIONS - TELECOM SYSTEMS:** ROUGH-IN, PATHWAYS AND SLEEVES RACKS, FRAMES AND ENCLOSURES COPPER HORIZONTAL CABLING DATA COMMUNICATIONS SWITCHES AND HUBS **SECURITY - ACCESS CONTROL:** ROUGH-IN, PATHWAYS AND SLEEVES SECURITY MANAGEMENT SYSTEM - HEAD END ( SECURITY MANAGEMENT SYSTEM - FIELD DEVICE SECURITY MANAGEMENT SYSTEM - ELECTRIFIE SECURITY MANAGEMENT SYSTEM - ALL CABLING SECURITY - VIDEO SURVEILLANCE: ROUGH-IN, PATHWAYS AND SLEEVES HEAD END EQUIPMENT AND COMPONENTS SAFETY - FIRE DETECTION AND ALARM: ROUGH-IN, PATHWAYS AND SLEEVES INITIATING FIELD DEVICES (SMOKE, MANUAL PU NOTIFICATION APPLIANCES (HORNS, STROBES, MISCELLANEOUS DEVICES (RELAYS, TEST STAT OFOI <u>o</u>wner <u>f</u>urnished & <u>c</u> OFCI <u>o</u>wner <u>f</u>urnished & <u>c</u>

DIMMER SWITCH, WALL MOUNT, LETTER INDICATES SWITCH LEG

LETTER INDICATES SWITCH LEG, REFER TO LIGHTING CONTROLS SCHEDULE

LIGHTING CONTROLS LOW VOLTAGE SWITCH, WALL MOUNT,

EMERGENCY TRANSFER DEVICE

CFCI <u>c</u>ontractor <u>f</u>urnish MATRIX IS NOT INTENDED TO BE EXHAUSTI' SCOPE AND SHOULD ONLY BE USED TO QU INFRASTRUCTURE INSIDE AND OUTSIDE TH INSTALLED BY THE BIDDING CONTRACTOR NECESSARY FOR A COMPLETE SYSTEM. THIS SHALL INCLUDE BUT NOT BE LIMITED TO, EQUIPMENT, ACCESSORIES, TERMINATIONS, TERMINATION COMPONENTS, ALL FINAL CORDAGE CONNECTIVITY, SOFTWARE, PROGRAMMING, AND THE LABOR TO INSTALL.

CONTRACTOR IS RESPONSIBLE FOR OBTAINING AND FILLING OUT ALL UTILITY REBATE FORMS FOR OWNER.

GENERAL S	SYMBOLS
<del>[3</del>	CONDUIT SLEEVE
0	CONDUIT UP, REFER TO TAG ON DRAWING FOR SIZE
•	CONDUIT DOWN, REFER TO TAG ON DRAWING FOR SIZE
<b>①</b>	JUNCTION BOX, CEILING OR FLOOR MOUNTED.
9	JUNCTION BOX, WALL MOUNTED, ELEVATION AS NOTED.
#	KEYNOTE
$\left\langle \begin{array}{c} xxx \\ x \end{array} \right\rangle$	EQUIPMENT IDENTIFICATION TAG. REFER TO EQUIPMENT CONNECTION SCHEDULI
<u> </u>	DETAIL DRAWING REFERENCE TAG, SIM-SIMILAR, TYP-TYPICAL, OPP-OPPOSITE SHEET REFERENCE
	SECTION CUT REFERENCE TAG, SIM-SIMILAR, TYP-TYPICAL, OPP-OPPOSITE SHEET REFERENCE
A101	INTERIOR ELEVATION DRAWING REFERENCE TAG
	DRAWINGS REVISION. REFER TO TITLEBLOCK FOR REVISION NAME AND DATE

CARBON DIOXIDE SENSOR JUNCTION BOX ROUGH-IN. WALL MOUNTED +48" OR AS

TEMPERATURE SENSOR JUNCTION BOX ROUGH-IN. WALL MOUNTED +48" OR AS NOTED.

NOTED. EXTEND 3/4" CONDUIT TO ACCESSIBLE LOCATION ABOVE CEILING.

EXTEND 3/4" CONDUIT TO ACCESSIBLE LOCATION ABOVE CEILING.

				POWERS	TIVIBULS
<u>X</u>					
ESPONSIBILITIES DEFINED	OFOI	OFCI	CFCI	φ	SINGLE RECEPTACLE, WALL MOUNTED
				Ф	DUPLEX RECEPTACLE, WALL MOUNTED, TAMPER-RESISTANT
	REU	SE EXISTI	NG	₩	DUPLEX GFCI RECEPTACLE, TAMPER-RESISTANT, WALL MOUNT, PROTECTION INCLUDED IN DEVICE.
S	REU	SE EXISTI	ING	₽w	DUPLEX GFCI WEATHER RESISTANT RECEPTACLE WITH WEATHER-PROOF IN-USE COVER, TAMPER-RESISTANT, WALL MOUNT
O COMPONENTS			•	•	EQUIPMENT CONNECTION, REFER TO EQUIPMENT CONNECTION SCHEDULE FOR CONNECTION TYPE. REFER TO PANEL SCHEDULES FOR GFCI PROTECTION WHERE REQUIRED
/ICES IED DOOR HARDWARE			•	69	MOTOR CONNECTION, REFER TO EQUIPMENT CONNECTION SCHEDULE FOR CONNECTION TYPE. REFER TO PANEL SCHEDULES FOR GFCI PROTECTION WHERE REQUIRED
NG					REFER TO PANEL SCHEDULES FOR GFOI PROTECTION WHERE REQUIRED
	N/A	N/A	N/A	•	EQUIPMENT CONNECTION, WALL MOUNT, REFER TO EQUIPMENT CONNECTION SCHEDULE FOR CONNECTION TYPE. REFER TO PANEL SCHEDULES FOR GFCI PROTECTION WHERE REQUIRED
	N/A N/A	N/A N/A	N/A N/A	. —	
	IN/A	IN/A	IN/A		SAFETY DISCONNECT SWITCH
				SPD	SURGE PROTECTIVE DEVICE
PULL, MONITOR MODULES) S, SPEAKERS)			•	_	PANELBOARD - SURFACE MOUNTED
ATION, ANNUNCIATOR)				-	PANELBOARD - RECESSED IN WALL
& <u>O</u> WNER <u>I</u> NSTALLED					DISTRIBUTION PANELBOARD/SWITCHBOARD - SURFACE MOUNTED AS NOTED.
& <u>C</u> ONTRACTOR <u>I</u> NSTALLED					
SHED & <u>C</u> ONTRACTOR <u>I</u> NST	ALLED			TEMPERA	TURE CONTROLS SYMBOLS - DEVICES PROVIDED BY T.C.C
TIVE TO COVER ALL MATER	S AND REI	LATED		①	THERMOSTAT JUNCTION BOX ROUGH-IN. WALL MOUNTED +48" OR AS NOTED. EXTEND 3/4" CONDUIT TO ACCESSIBLE LOCATION ABOVE CEILING.
FHE BID OF THIS PROJECT. R SHALL COVER ALL REQUI THIS SHALL INCLUDE BUT N NS. TERMINATION COMPON	IRED APPI IOT BE LIN	ERTUNAN ⁄IITED TO,	ICES	$\Theta$	HUMIDISTAT JUNCTION BOX ROUGH-IN. WALL MOUNTED +48" OR AS NOTED. EXTEND 3/4" CONDUIT TO ACCESSIBLE LOCATION ABOVE CEILING.

POWER SYMBOLS

					<u>EQUI</u>	PMENT CO	NNECTIO	N SCHEDULI	<u>E - ORAN PAPE</u>					
ABBREVIAT	IONS:						NOTES:							
1 NEMA	1 ENCLOSURE	IN	T INTEGRAL W	ITH EQU	IPMENT F	ROM FACTORY	1. PROVID	E AND INSTALL E	ELECTRICAL SYSTE	MS MEETING THE REQUIREMENTS OF THE PROVIDED MECHANICAL				
3R NEMA 3R ENCLOSURE NFD NON-FUSED DISCONNECT SWITCH, HEAVY CB CIRCUIT BREAKER IN PANEL ST SHUNT TRIP										COMPLIANCE AND COORDINATION WITH ELECTRICAL CONNECTIONS ICAL CONNECTIONS, WIRING, AND BREAKER REQUIREMENTS ARE				
	LARM SHUTDOWN DISCONNECT SW		TOGGLE SW	ITCH			3. PROVID		DISCONNECTS FOR	THE INSTALLED ENVIRONMENT; NEMA 1 INDOORS, MINIMUM NEMA 3R				
FDS FUSED DISCONNECT SWITCH, HEAVY DUTY								4. INCLUDE AUXILLIARY CONTACTS AND LOW-VOLTAGE WIRING TO AUXILLIARY EQUIPMENT THAT RUNS IN TANDEM WITH EQUIPMENT, (I.E. 120V DAMPERS WITH 480V MOTORS).						
							******	~~····	201 27 1111 2110 1111	1400 V INIO 1 O1(0).				
	ELE	CTRICAL C	HARACTERI	STICS				CONNECT	200 27 4111 2100 1111					
	<u>ELE</u>	CTRICAL C	HARACTERI	STICS				. ,	FUSE SIZE	T400V IVIOTORO).				
TAG	ELE VOLTAGE	CTRICAL C	HARACTERI MOTOR HP		MCA	TYPE	DIS	CONNECT		REMARKS				
TAG SSI-1					<u>MCA</u>	TYPE (	DIS SIZE	SCONNECT NEMA	FUSE SIZE	, 				

SSO-1	208 V 1	-	- 34	NFD	60	3R	-	-			
					LIGHTIN	NG FIXTURE	SCHEDULE				
OTES:											
. ALL FIXTURES	S SHALL BE U.L. OR SIN	/IILARLY LISTED.									
. INCLUDE A M	INIMUM 1 YEAR WARRA	ANTY FOR LIGHTING	FIXTURES, WHEF	RE NOT OTHERV	ISE SPECIFIE	ΞD.					
. REFER TO AF	CHITECTURAL DOCUM	IENTS FOR EXACT N	MOUNTING LOCAT	IONS. DETAILS.	AND CONFIGI	URATIONS OF ALI	_LUMINAIRES. IF	ARCHITECTURAL DRAWI	NGS DO NOT CLARIFY	EXACT MOUNTING	
	R DETAIL, ISSUE AN RF										
VERIEY COME	PATIBILITY OF LIGHT FI	XTURES WITH ARCH	HITECTUREAL CEL	ING PLAN MAT	FRIALS ADJA	ACENT CONSTRU	CTION AND ADJA	ACENT FINISHES PRIOR TO	SHOP DRAWINGS SU	IBMITTAL ADJUST FIXTUR	?F TYPF
	ON, FLANGE,	ATORES WITH A ROL	III LOTOILLA CEI		LI (1) (LO, ) (DO)	toent concinto	011011,7111271207	TOLIVI I II I	JOHOL BIGWINGS SO	DIMIT IAL. ABOOCT TIXTOR	<b>\</b> _
CONTRACTO	R IS RESPONSIBLE FOR	O ALL MISCELLANEC		IECESSADV TO	NCTALL AND	SLIDDODT THE LI	IMINIAIDES				
			-				_	MMENDATIONS OF THE A	RCHITECT		
	OR AND MATERIAL CO	-		-							

									DESIG	NED BY: ERIC HEYNEN
TYPE	MANUFACTURER	MODEL	DESCRIPTION	FINISH	LUMENS	DRIVER TYPE	SOURCE-CC T	VOLTAGE	LOAD-VA	APPROVED EQUALS
EM	HUBBELL DUAL-LITE	LZ-2-I-03L	EMERGENCY LIGHT, WALL OR CEILING MOUNTED, THERMOPLASTIC HOUSING, 2 LED ADJUSTABLE LAMP HEADS, LEAD-CALCIUM MAINTENANCE FREE BATTERY, SELF-DIAGNOSTICS. MULTI-VOLT REQUIRED	WHITE	300	LED	LED - 4000K	120 V	2 VA	SURE-LITES, LIGHTALARMS, LITHONIA
F1	LITHONIA		UTILITY STRIP FIXTURE 4', WET LISTED, GASKETED, POLYCARB LENS, MULTI-VOLT REQUIRED	WHITE	5000	LED	LED - 4000K	120 V	35 VA	COOPER, CURRENT
F2	LITHONIA	CSVT L48 5000LM MVOLT 40K 80CRI	SAME AS F1 BUT WALL MOUNTED	WHITE	5000	LED	LED - 4000K	120 V	35 VA	COOPER, CURRENT
F3	ALPHABET	FK 00 60D CL WH WH	4" RECESSED DOWNLIGHT, MULTI-VOLT, RETROFIT IN EXISTING DRYWALL CEILING, EXTEND CIRCUIT/SWITCHLEG FROM EXISTING LIGHTING IN	WHITE	1500	LED	LED - 3500K	120 V	16 VA	GOTHAM, PORTFOLIO

1. DISCONNECT SHALL BE PROVIDED / INSTALLED BY E.C. 2. UNIT TO BE MOUNTED ON EXISTING EXTERIOR METAL SUPPORTS. 3. REFER TO SPLIT SYSTEM INDOOR UNIT SCHEDULE FOR CAPACITY RATING CONDITIONS. West Des Moines, IA 4. SYSTEM REQUIRES LOW AMBIENT AIR COOLING OPERATION (-20 °F), PROVIDE LOW AMBIENT WIND BAFFLES. 50265 515-724-7938

100 Court Ave., Suite 100 Des Moines, IA 50309 P: 515-309-0722 www.opnarchitects.com

rights, including the copyright thereto.

© 2024 OPN Architects, Inc

All reports, plans, specifications, computer files, field data, notes and other documents and instruments prepared by OPN Architects, Inc. as instruments of service shall remain the property of OPN Architects, Inc., OPN Architects, Inc. shall retain all common law, statutory and other reserved

1305 E. Walnut Street DES MOINES, IA 50319

DCI Group 220 SE 6TH Street - SUITE 200 DES MOINES, IA 50309

P. 515-244-5043 Elevator Consultant LERCH BATES 7625 GOLDEN TRIANGLE DRIVE, SUITE T

EDEN PRAIRIE, MN 55344

P. 612-441-4335 Mechanical Engineer KCL ENGINEERING 300 4TH ST

WEST DES MOINES, IA 50265

Electrical Engineer KCL ENGINEERING 300 4TH ST WEST DES MOINES, IA 50265 P. 515-724-7938

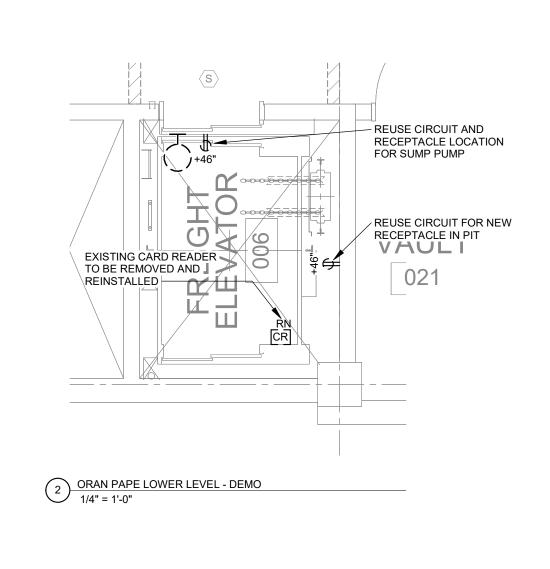
P. 515-724-7938

OPN Project No. 24850000

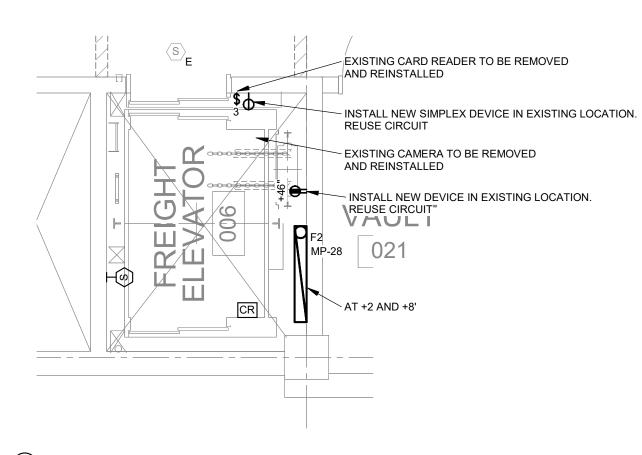
Sheet Issue Date 03/14/2025

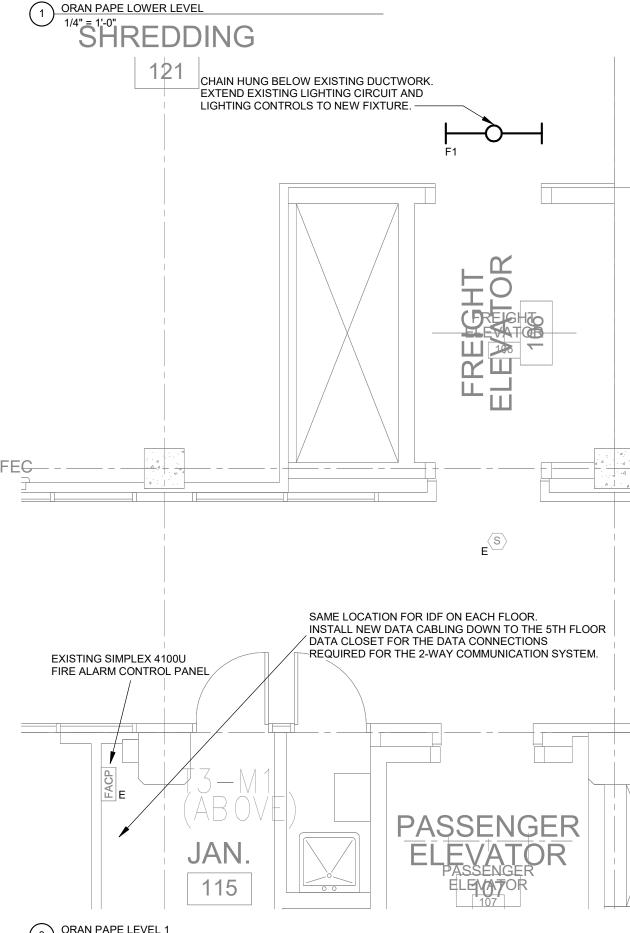
Sheet Name ELECTRICAL/MECHANICAL **GENERAL NOTES & SYMBOLS ORAN PAPE** 

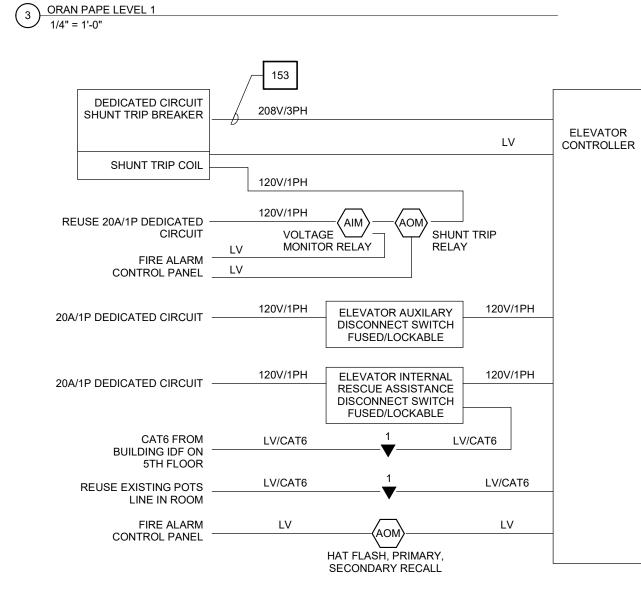
**ME000.2** 



| 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10







7 ELEVATOR SYSTEM DETAIL

NOT TO SCALE

## **ELECTRICAL DEMOLITION NOTES**

- DEMOLITION DRAWINGS PRESENT LAYOUT OF EXISTING CONDITIONS AND MAJOR MECHANICAL/ELECTRICAL ITEMS. FIELD VERIFY EXISTING CONDITIONS AND BECOME FAMILIAR WITH EXISTING ELECTRICAL SYSTEM AND DEMOLITION SCOPE BEFORE WORK BEGINS.
- ADDITIONAL COMPONENTS MAY EXIST WHICH ARE NOT SHOWN. HANDLE SUCH ITEMS IN A MANNER SIMILAR TO THOSE ITEMS WHICH ARE SHOWN.
- REMOVE ELECTRICAL FACILITIES AND CLEAR THE AREA TO RECEIVE THE NEW WORK. REMOVE ALL CONDUIT, WIRE, BOXES, ETC., AS REQUIRED BY WALL AND CEILING DEMOLITION.
- IDENTIFY THE LOCATION OR ITEMS SERVED FOR ALL DISCONNECTED BRANCH CIRCUITS BEFORE DEMOLITION. MAINTAIN CIRCUITS SERVING AREAS BEYOND THE DEMOLITION AREA.
- REMOVE AND REINSTALL CEILING TILES AS REQUIRED TO REMOVE THE ELECTRICAL FACILITIES NOTED. REPLACE CEILINGS TILES DAMAGED DURING DEMOLITION.
- KEEP EXISTING SYSTEMS OPERATIONAL DURING ALL PHASES OF CONSTRUCTION UNLESS NECCESARY FOR
- OBTAIN OWNER'S PERMISSION TO SHUT OFF SERVICES OR SYSTEMS WHICH MAY AFFECT OTHER AREAS BEYOND DEMOLITION AREA. INFORM OWNER AS TO THE REASON FOR AND THE DURATION OF THE SHUTDOWN.
- REPAIR AT CONTRACTORS EXPENSE ANY DAMAGED CONDUIT OR WIRE NOT IDENTIFIED FOR DEMOLITION.
- INSTALL BLANK COVERPLATES/COVERS OVER OPENINGS AT REMOVED DEVICE LOCATIONS.
- ALL WIRING FOR REMODELED AREAS SHALL BE NEW UNLESS SPECIFICALLY NOTED OTHERWISE.
- PROTECT EXISTING DEVICES IDENTIFIED TO REMAIN OR BE RELOCATED. IF AN EXISTING DEVICE CANNOT BE REINSTALLED NOTIFY DESIGN TEAM DURING DEMOLITION. REPLACE FUNCTIONING ITEMS DAMAGED DURING DEMOLITION.
- REMOVED/DEMOLISHED EQUIPMENT REMAINS THE PROPERTY OF THE OWNER UNLESS OTHERWISE NOTED. VERIFY OWNERS SALVAGE SELECTIONS AND DISPOSE ALL OTHER MATERIALS.
- G. PLAN ABBREVIATIONS: E - EXISTING ITEM TO REMAIN ER - NEW LOCATION OF EXISTING ITEM N - NEW ITEM IN EXISTING LOCATION
- R EXISTING ITEM TO BE REMOVED, PATCH AND/OR RN - REPLACE EXISTING WITH NEW RR - EXISTING ITEM TO BE REMOVED AND RELOCATED

## **POWER GENERAL NOTES**

- COORDINATE LOCATION/INSTALLATION OF MECHANICAL AND ELECTRICAL WORK WITH ALL OTHER TRADES. NO ASPECT OF A SYSTEM INSTALLATION OR ITS ROUGH-IN SHALL COMMENCE UNTIL PROPER AND TIMELY COORDINATION WITH ALL TRADES ASSOCIATED WITH THE INSTALLATION HAS TRANSPIRED. ITEMS TO BE COORDINATED SHALL INCLUDE BUT NOT BE LIMITED TO: BUILDING STRUCTURE, SHEET METAL, PIPING SYSTEMS, LIGHT FIXTURES, CONDUITS, CABLE TRAYS, ETC. REFER TO ALL GENERAL, MECHANICAL, AND ELECTRICAL DRAWINGS AND SPECIFICATIONS FOR THIS PROJECT.
- COORDINATE ELECTRICAL REQUIREMENTS FOR MECHANICAL UNITS WITH MECHANICAL CONTRACTOR AND FINAL MECHANICAL SHOP
- PROVIDE PENETRATIONS REQUIRED FOR ROUTING RACEWAYS THROUGH THE BUILDING. COORDINATE FIRE RATED WALL PENETRATIONS AND PROVIDE CONDUIT SLEEVES AND FIRE STOPPING TO MAINTAIN RATING.

## **LIGHTING GENERAL NOTES**

COORDINATE LOCATION/INSTALLATION OF MECHANICAL AND ELECTRICAL WORK WITH ALL OTHER TRADES. NO ASPECT OF A SYSTEM INSTALLATION OR ITS ROUGH-IN SHALL COMMENCE UNTIL PROPER AND TIMELY COORDINATION WITH ALL TRADES ASSOCIATED WITH THE INSTALLATION HAS TRANSPIRED. ITEMS TO BE COORDINATED SHALL INCLUDE BUT NOT BE LIMITED TO: BUILDING STRUCTURE, SHEET METAL, ALL PIPING SYSTEMS, LIGHT FIXTURES, CONDUITS, CABLE TRAYS, ETC. REFER TO ALL GENERAL, MECHANICAL, AND ELECTRICAL DRAWINGS AND SPECIFICATIONS FOR THIS PROJECT

FEEDER SCHEDULE

GROUND

PHASE

1- SET (3) #3

1- SET (3) #1/0

DEDICATED 20A/1P CIRCUIT

DEDICATED 20A/1P CIRCUIT —

DEDICATED 20A/1P CIRCUIT

DEDICATED 20A/1P CIRCUIT

DEDICATED 20A/1P CIRCUIT —

DEDICATED 208V-30A/2P CIRCUIT ——

TYPICAL ELEVATOR SYSTEMS WIRING DIAGRAM

CONDUCTOR

MATERIAL

COPPER

COPPER

HOISTWAY LIGHTING

MACHINE ROOM LIGHTING

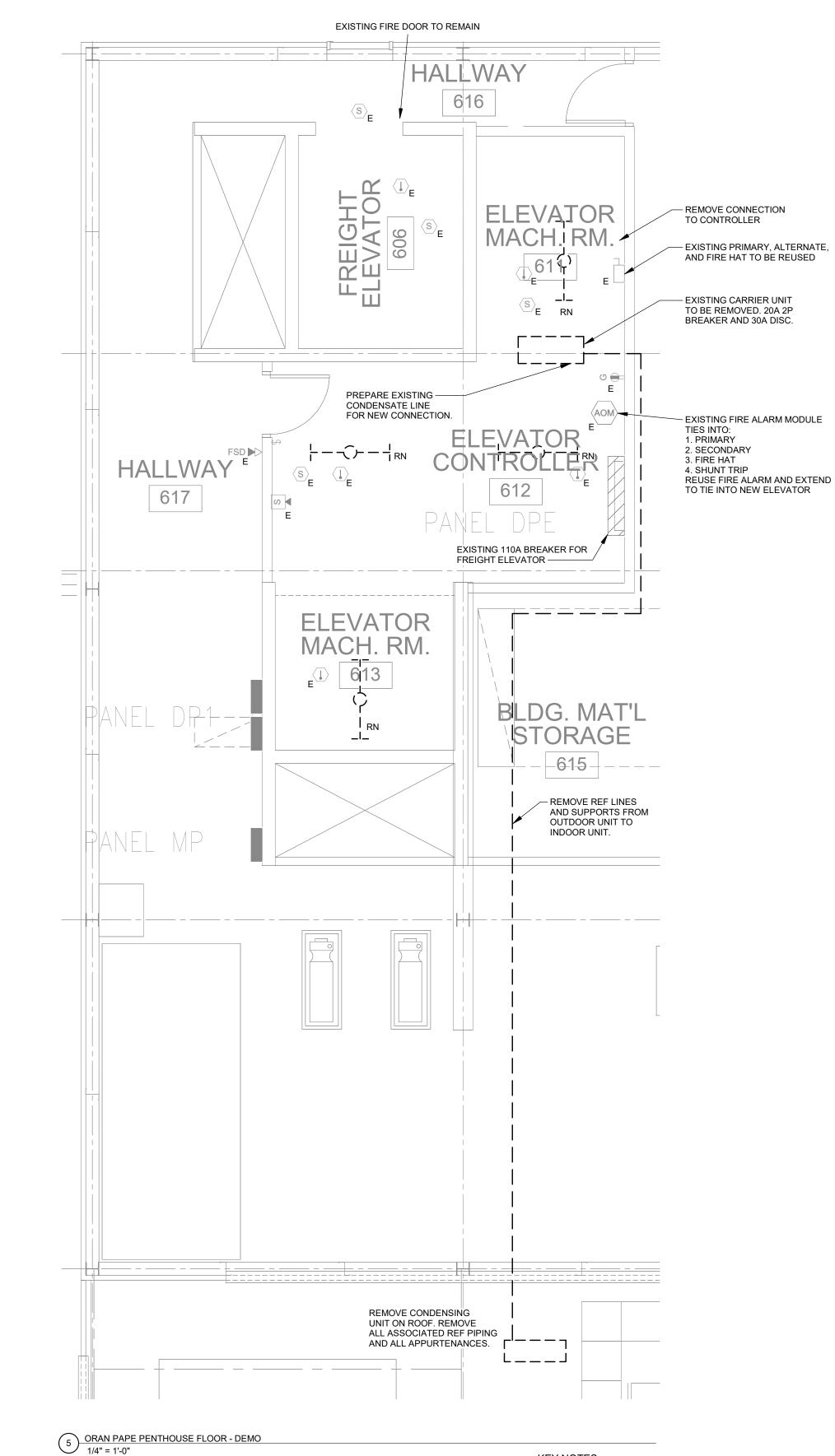
PIT GFCI DUPLEX

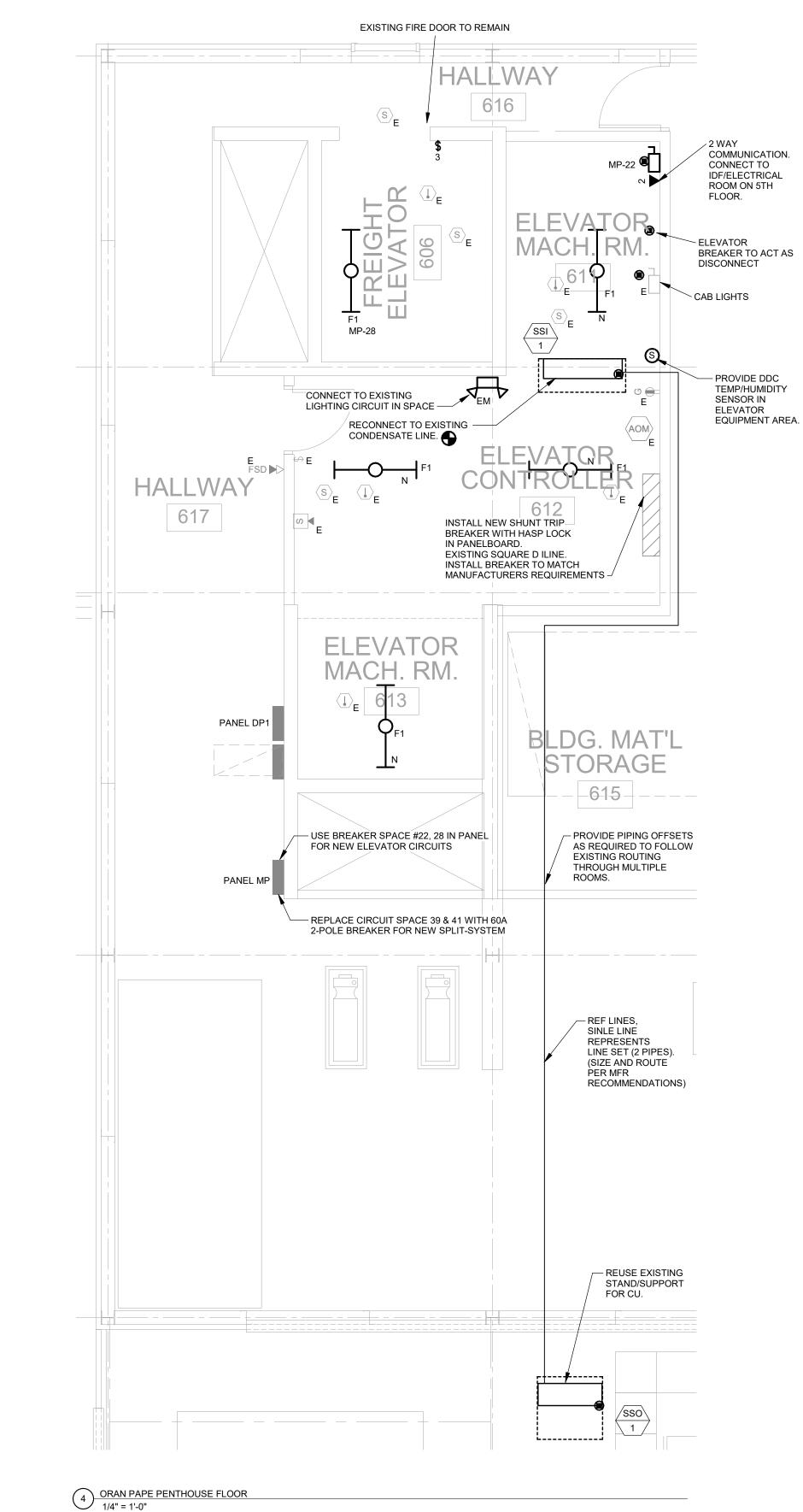
MACHINE ROOM GFCI DUPLEX

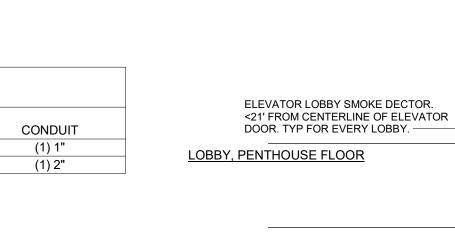
SUMP PUMP

MACHINE ROOM HVAC

UNLESS NOTED OTHERWISE, CONNECT ALL EMERGENCY BATTERY FIXTURES WITH AN UN-SWITCHED LEG OF THE LIGHTING CIRCUIT THAT SERVES THE FIXTURES SPACE. MAINTAIN NORMAL SWITCHING SCHEME OF EMERGENCY FIXTURES UNDER NORMAL OPERATION.







HEAT & SMOKE DETECTORS INSTALLED AT TOP OF HOISTWAY.

7) HOISTWAY LIGHTING SWITCH —

HEAT DETECTOR LOCATED <2' FROM SPRINKLER HEAD. —

**KEY NOTES:** (1) FUSED, LOCKABLE 100A MAIN DISCONNECT SWITCH AND DEDICATED CAT6 DATA TERMINATION TO SERVE ELEVATOR MAIN POWER. PROVIDED WITH NO/NC LOW VOLTAGE CONTACTS.

(2) FUSED, LOCKABLE 30A 120V/1POLE DISCONNECT SWITCH TO SERVE ELEVATOR AUXILIARY LIGHTING/VENTILATION, FUSED, LOCKABLE 30A 120V/1POLE DISCONNECT SWITCH AND

DEDICATED CAT6 DATA TERMINATION TO SERVE ELEVATOR CAB INTERNAL RESCUE ASSISTANCE SYSTEM. FIRE ALARM SYSTEM HAT FLASH, PRIMARY RECALL, SECONDARY RECALL, SHUNT TRIP, AND SHUNT TRIP MONITOR RELAYS.

DEDICATED CIRCUIT 120V DUPLEX GFCI MAINTENANCE RECEPTACLE WITHIN MACHINE ROOM SPACE ADJACENT TO DISCONNECTS. ELEVATOR HOISTWAY LIGHTING POWERED BY DEDICATED

8 PROVIDE A TOTAL OF 9 F1/F2 LIGHTING FIXTURES FOR SHAFT.

CIRCUIT. FOR EACH CAR, PROVIDE LIGHT FIXTURE AT TOP OF

HOISTWAY, PIT, AND AT EACH FLOOR. FIXTURES ABOVE PIT LOCATED TO ILLUMINATE TOP OF CAR AT EACH STOP, TYPICAL 10' ABOVE EACH LEVEL. PROVIDE HOISTWAY LIGHTING CONTROLS THREE WAY SWITCHES AT BOTTOM AND TOP FLOOR HOISTWAY ENTRIES. WHERE MULTIPLE CARS SHARE A COMMON HOISTWAY, PROVIDE 4 WAY SWITCHES AND PROVIDE SWITCH AT EACH CARS BOTTOM AND TOP FLOORS. SWITCH SHALL CONTROLS ALL LIGHTING IN HOISTWAY AND PIT

— ELEVATOR MACHINE

DEDICATED CIRCUIT. TYP.

ROOM LIGHTING

— FIRE ALARM ூ

SYSTEM RELAYS

ELEVATOR

CONTROL

HEAT AND SMOKE DETECTOR WITHIN ELEVATOR MACHINE ROOM. ELEVATOR LOBBY SMOKE DECTOR. HEAT DETECTOR LOCATED <2' FROM <21' FROM CENTERLINE OF ELEVATOR SPRINKLER HEAD (WHERE SPRINKLED). DOOR. TYP FOR EVERY LOBBY. **BASEMENT FLOOR CEILING** LOBBY, BASEMENT FLOOR MACHINE ROOM (7)HOISTWAY LIGHTING SWITCH -BASEMENT FLOOR ELEVATOR CAB ELEVATOR RESCUE ASSISTANCE AUX POWER REUSE 120V DEDICATED CIRCUIT FOR SYSTEM DISCONNECT DISCONNECT NEW PIT MAINTENANCE GFCI DUPLEX RECEPTACLE WITH WEATHERPROOF COVER -**ELEVATOR** MAIN POWER REUSE 120V DEDICATED CIRCUIT FOR DISCONNECT NEW SUMP PUMP RECEPTACLE WITH WEATHERPROOF COVER -<u>ELEVATOR PIT</u> SRECEPTACLE — P PROVIDE A TOTAL OF 9 F1/F2 — MACHINE ROOM FIXTURES FOR ENTIRETY OF SHAFT LIGHTING SWITCH

(6) ELEVATOR HOISTWAY LIGHTING. TYP.

TOP OF HOISTWAY

PENTHOUSE FLOOR CEILING

PENTHOUSE FLOOR

<u>TYPICAL ELEVATOR HOISTWAY ELEVATION</u>

TYPICAL ELEVATOR MACHINE ROOM

18

17

West Des Moines, IA 50265

515-724-7938

6 ELEVATOR SYSTEM DETAIL NOT TO SCALE

ORAN PAPE

**ME101.2** 

100 Court Ave., Suite 100

www.opnarchitects.com

rights, including the copyright thereto.

© 2024 OPN Architects, Inc.

All reports, plans, specifications, computer files, field data,

notes and other documents and instruments prepared by

OPN Architects, Inc. as instruments of service shall remain

the property of OPN Architects, Inc. OPN Architects, Inc.

**Oran Pape Elevator Modernization** 

1305 E. Walnut Street

DES MOINES, IA 50319

DES MOINES, IA 50309

EDEN PRAIRIE, MN 55344

WEST DES MOINES, IA 50265

WEST DES MOINES, IA 50265

220 SE 6TH Street - SUITE 200

7625 GOLDEN TRIANGLE DRIVE, SUITE T

Construction Manager

P. 515-244-5043

Elevator Consultant

LERCH BATES

P. 612-441-4335

Mechanical Engineer

300 4TH ST

Electrical Engineer

300 4TH ST

P. 515-724-7938

P. 515-724-7938

KCL ENGINEERING

KCL ENGINEERING

DCI Group

shall retain all common law, statutory and other reserved

Des Moines, IA 50309

P: 515-309-0722

OPN Project No. 24850000 Sheet Issue Date

03/14/2025 Sheet Name

**ELECTRICAL/MECHANICAL** Sheet Number

## APPLICABLE CODE INFORMATION

THE PROJECT SHALL COMPLY WITH THE FOLLOWING CODES



COVER SHEET SITE LOGISTICS PLAN DEMO FLOOR PLANS **DEMO FLOOR PLANS** AD200.3 **EXISTING CONDITIONS EXISTING CONDITIONS EXISTING CONDITIONS** FLOOR PLANS A100.3 FLOOR PLANS

**SHEET INDEX** 

MECHANICAL / ELECTRICAL GENERAL NOTES & SYMBOLS ELECTRICAL / MECHANICAL IWD EAST

ELECTRICAL / MECHANICAL IWD CENTRAL

2015 INTERNATIONAL BUILDING CODE ACCESSIBILITY - DIVISION 7 of IOWA STATE BUILDING CODE, IOWA STATE ACCESSIBILITY CODE 2015 IBC and ANSI A117.1 - 2009 EDITION 2015 INTERNATIONAL MECHANICAL CODE 2015 INTERNATIONAL FIRE CODE 2011 NATIONAL ELECTRICAL CODE 2015 INTERNATIONAL EXISTING BUILDING CODE **IBC Chapter 2 - Use and Occupancy Classification** The use and occupancy classification of the existing building are unchanged. IBC Chapter 5 - General Building Heights and Areas Existing building use and size to remain unchanged. IBC Chapter 6 - Types of Construction The type of construction for the existing building is unchanged. Fire resistance rated construction is not required at the elevator machine room per IBC 3005.4 Exception 2. IBC Chaper 7 - Fire and Smoke Protection Features New construction is limited and existing construction is not being modified. IBC Chapter 8 - Interior Finishes New construction is limited and matches existing interior finishes. **IBC Chapter 10 - Means of Egress** All means of egress are being maintained in the existing building. IBC Chapter 30 - Elevators and Conveying Systems Fire resistance rated construction is provided at the elevator machine room. Smoke protection at hoistway openings is not required per IBC 3006.2. **IBE Chapter 34 Existing Structures:** The updates to the existing building conform to the requirements of the code for new construction and are to be made with the same materials of which the original building is constructed. The existing building is in compliance with the mandatory fire safety requirements, the mandatory means of egress requirements, and the general safety requirements

Iowa Administrative Code, Chapter 16, Division VII - Accessibility Requirements For Facilities Used by the General Accessibility within the building will be maintained.

Iowa Administrative Code, Chapter 72 - Conveyances Installed on or After January 1, 1975 Elevator pit sump pump is not required per 72.13(3). NFPA-13 Chapter 8 - Section 8.15.5

Building is not fully sprinklered. In accordance with NFPA 13-2013, sprinkler coverage in not required for the existing elevator maching room, nor the shaft (traction elevator). A sprinkler is not required a the top of the hoistway due to compliance with 8.15.5.6.

# STATE OF IOWA - IOWA WORKFORCE DEVELOPMENT ELEVATOR MODERNIZATIONS

1000 E GRAND AVENUE, DES MOINES, IA 50319



100 Court Ave. Suite 100, Des Moines, IA 50309 P: 515-309-0722 F: 515-309-0725 www.opnarchitects.com

**ARCHITECT** 

DES MOINES, IA 50309

**OPN ARCHITECTS** 100 COURT AVENUE - SUITE 100 **CONSTRUCTION MANAGER** 

220 SE 6TH STREET - SUITE 200 DES MOINES, IA 50309

MECHANICAL ENGINEER KCL ENGINEERING 300 4TH STREET WEST DES MOINES, IA 50265 **ELECTRICAL ENGINEER** KCL ENGINEERING 300 4TH STREET WEST DES MOINES, IA 50265 **VERTICAL TRANSPORTATION** LERCH BATES 706 SECOND AVENUE SOUTH MINNEAPOLIS, MN 55402



1 LEVEL 2 FLOOR PLAN - CODE PLAN

O P N

ARCHITECTS

212 N 3rd Avenue, Ste. 312 Minneapolis, MN 55401 P: 612-355-7111 www.opnarchitects.com

All reports, plans, specifications, computer files, field data, notes and other documents and instruments prepared by OPN Architects, Inc. as instruments of service shall remain the property of OPN Architects, Inc. OPN Architects, Inc. shall retain all common law, statutory and other reserved rights, including the copyright thereto.

© 2025 OPN Architects, Inc.

STATE OF IOWA

109 SE 13TH STREET
DES MOINES, IA 50319

CONSTRUCTION MANAGER

IOWA WORKFORCE DEVELOPMENT ELEVATOR MODERNIZATIONS

1000 E GRAND AVENUE DES MOINES, IA 50319

DCI GROUP 220 SE 6TH STREET, SUITE 200 DES MOINES, IA 50309

ELEVATOR CONSULTANT

LERCH BATES

7625 GOLDEN TRIANGLE DRIVE,
SUITE T
EDEN PRAIRIE, MN 55344

Mechanical Engineer

KCL ENGINEERING

300 4TH STREET

WEST DES MOINES, IA 50317

KCL ENGINEERING
300 4TH STREET
WEST DES MOINES, IA 50317

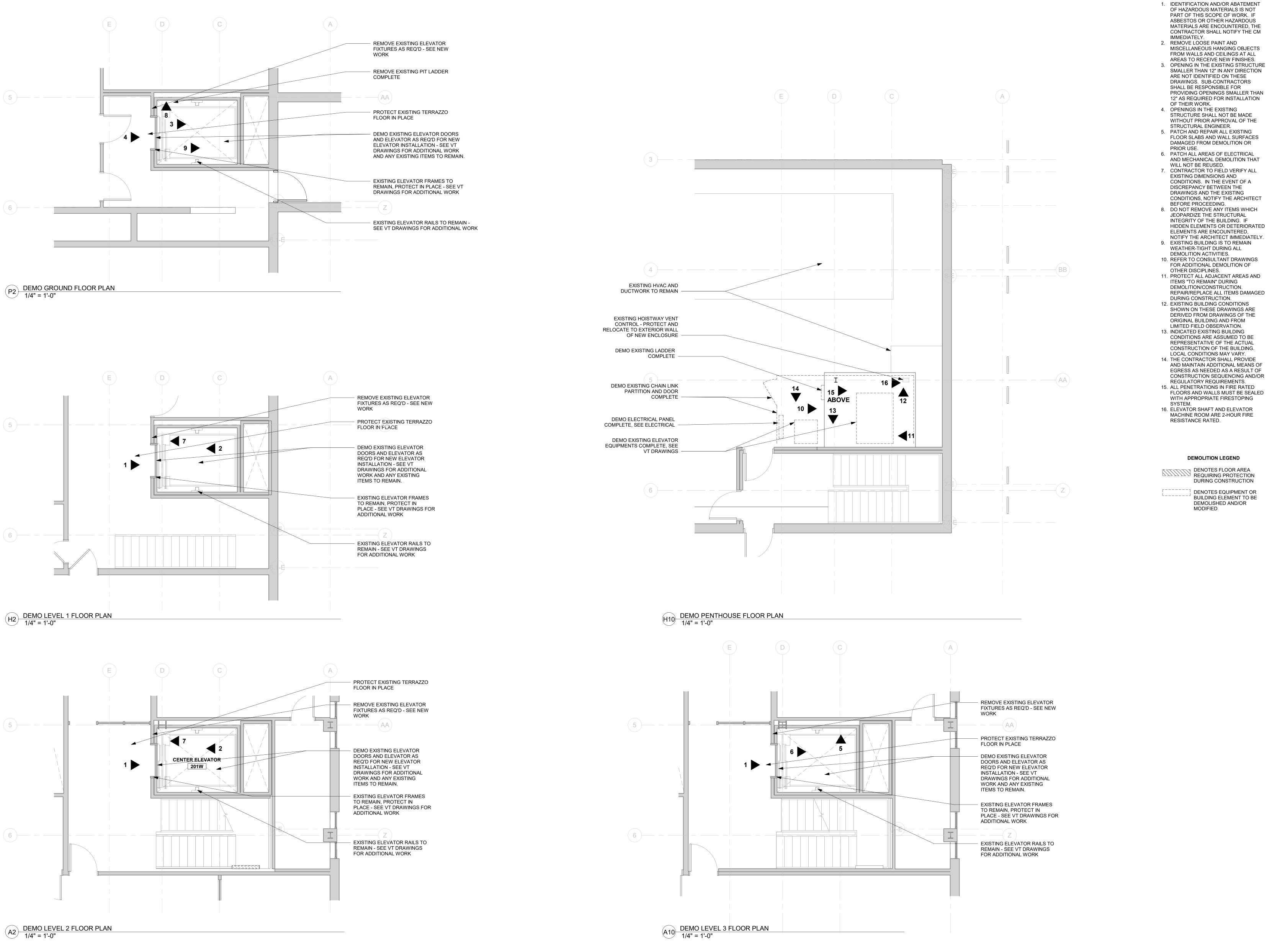
Key Plan

OPN Projec **248500** 

Sheet Issue Date

BID SET 03

SITE LOGISTICS PLAN



212 N 3rd Avenue, Ste. 312 Minneapolis, MN 55401 P: 612-355-7111 www.opnarchitects.com

All reports, plans, specifications, computer files, field data, notes and other documents and instruments prepared by OPN Architects, Inc. as instruments of service shall remain the property of OPN Architects, Inc. OPN Architects, Inc. shall retain all common law, statutory and other reserved rights, including the copyright thereto. © 2025 OPN Architects, Inc.

STATE OF IOWA 109 SE 13TH STREET DES MOINES, IA 50319

CONSTRUCTION MANAGER

IOWA WORKFORCE DEVELOPMENT **ELEVATOR MODERNIZATIONS** 1000 E GRAND AVENUE DES MOINES, IA 50319

DCI GROUP 220 SE 6TH STREET, SUITE 200 DES MOINES, IA 50309

ELEVATOR CONSULTANT LERCH BATES 7625 GOLDEN TRIANGLE DRIVE, EDEN PRAIRIE, MN 55344

Mechanical Engineer KCL ENGINEERING 300 4TH STREET WEST DES MOINES, IA 50317

Electrical Engineer KCL ENGINEERING 300 4TH STREET

WEST DES MOINES, IA 50317

**DEMOLITION LEGEND** 

**GENERAL NOTES** 

DENOTES FLOOR AREA REQUIRING PROTECTION DURING CONSTRUCTION

DENOTES EQUIPMENT OR BUILDING ELEMENT TO BE DEMOLISHED AND/OR MODIFIED

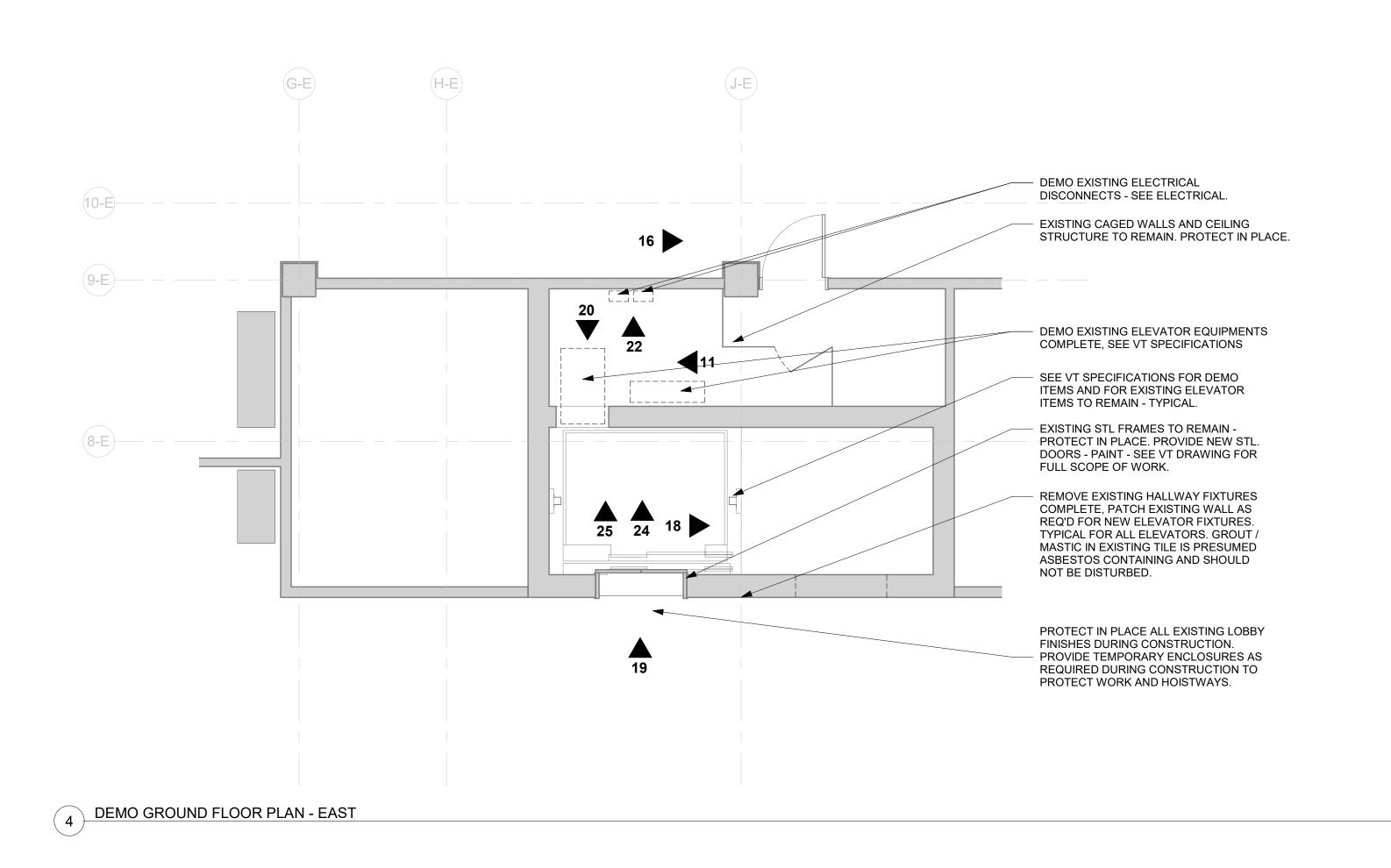
24850000

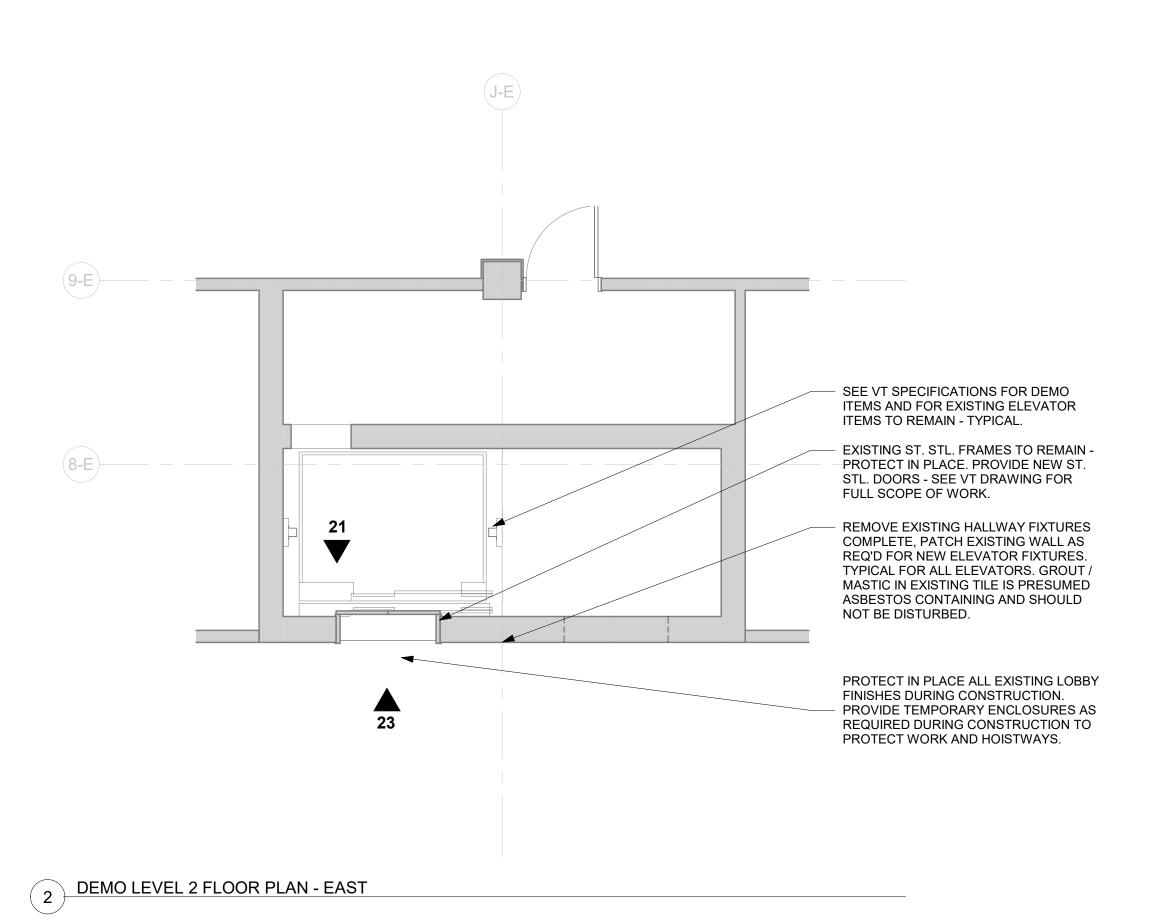
Key Plan

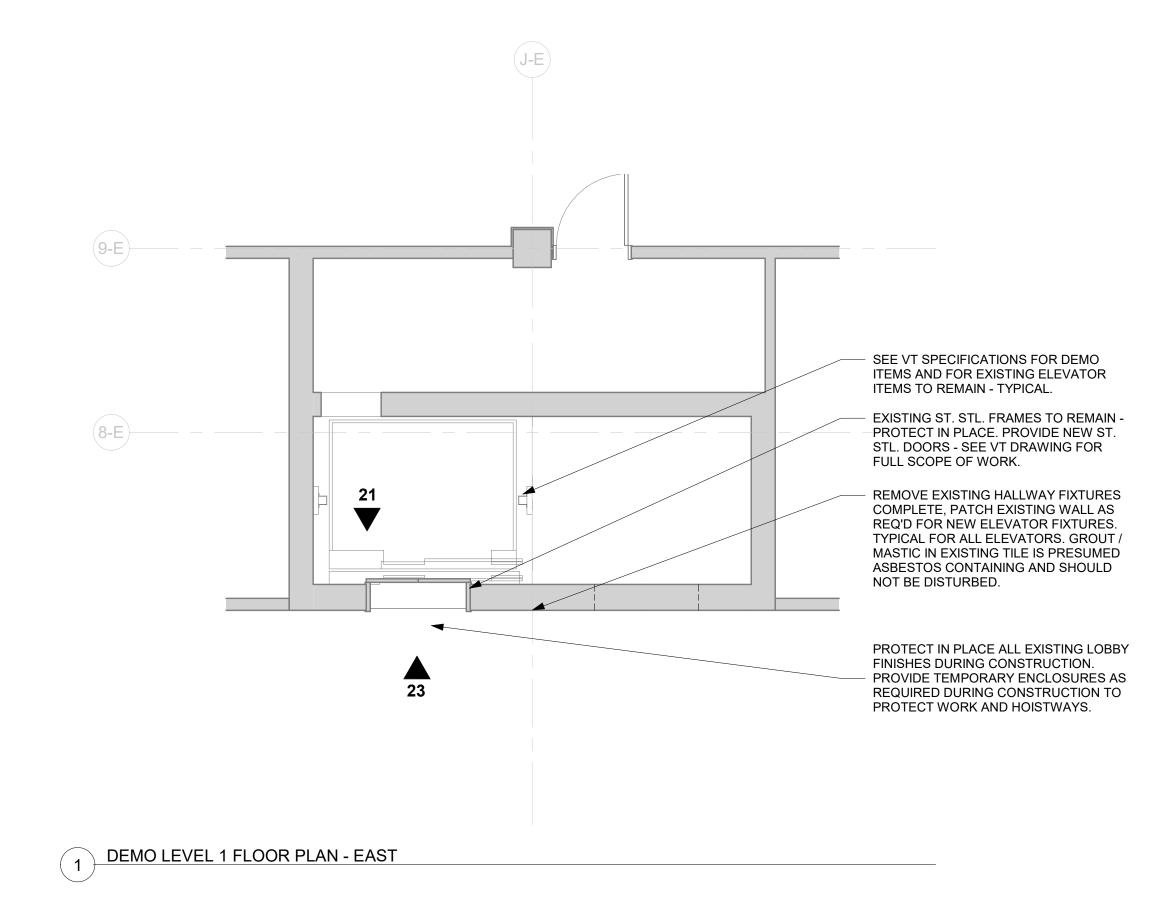
Sheet Issue Date

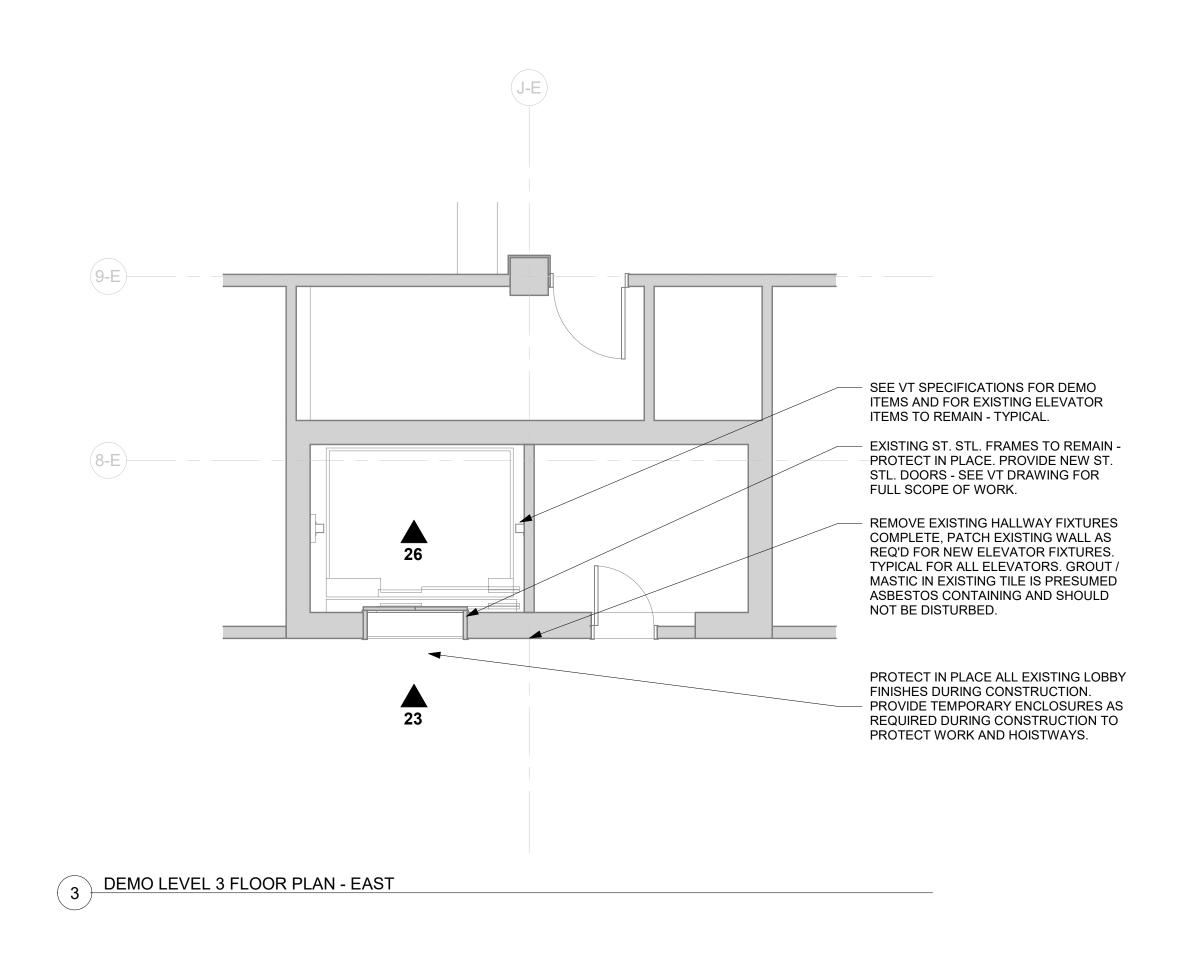
Sheet Name

**DEMO PLANS** 









O P N

ARCHITECTS

212 N 3rd Avenue, Ste. 312 Minneapolis, MN 55401 P: 612-355-7111 www.opnarchitects.com

All reports, plans, specifications, computer files, field data, notes and other documents and instruments prepared by OPN Architects, Inc. as instruments of service shall remain the property of OPN Architects, Inc. OPN Architects, Inc. shall retain all common law, statutory and other reserved rights, including the copyright thereto.

© 2025 OPN Architects, Inc.

STATE OF IOWA

109 SE 13TH STREET
DES MOINES, IA 50319

CONSTRUCTION MANAGER

Project

IOWA WORKFORCE DEVELOPMENT
ELEVATOR MODERNIZATIONS

1000 E GRAND AVENUE
DES MOINES, IA 50319

DCI GROUP 220 SE 6TH STREET, SUITE 200 DES MOINES, IA 50309

LERCH BATES

7625 GOLDEN TRIANGLE DRIVE,
SUITE T
EDEN PRAIRIE, MN 55344

Mechanical Engineer

KCL ENGINEERING

300 4TH STREET

WEST DES MOINES, IA 50317

KCL ENGINEERING
300 4TH STREET
WEST DES MOINES, IA 50317

Revision

Key Plan

OPN Project No. **24850000** 

Sheet Issue Date

BID SET

Sheet Name

DEMO PLANS

03/14/2025



SPECIFICATIONS FOR DEMO ITEMS AND FOR EXISTING ELEVATOR ITEMS TO REMAIN.

- EXISTING STL FRAMES TO REMAIN - PROTECT IN PLACE -PAINT. PROVIDE NEW STL. DOORS, COLOR TO MATCH -SEE VT DRAWING FOR FULL SCOPE OF WORK.

2 3 4 5 6 7 8 9 10 11 12 13 14

REMOVE AND REPLACE EXISTING SIGNAGE.

REMOVE EXISTING HALLWAY FIXTURES COMPLETE. NEW ELEVATOR FIXTURES SHOULD COMPLETELY COVER EXISTING CONDITION.

- PROTECT IN PLACE ALL EXISTING LOBBY FINISHES DURING CONSTRUCTION. PROVIDE TEMPORARY ENCLOSURES AS REQUIRED DURING CONSTRUCTION TO PROTECT WORK AND HOISTWAYS.

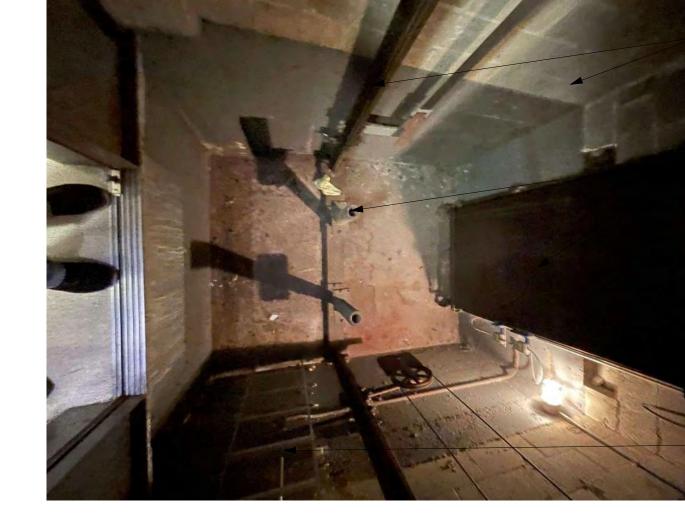


PROVIDE ALL NEW FINISHES IN
\_ ELEVATOR CAB - SEE ELEVATIONS AND VT SPECIFICATIONS.

PROVIDE NEW ELEVATOR CONTROL PANEL IN CAB - SEE ELEVATIONS.
MAINTAIN EXISTING FLOOR DESIGNATIONS.

PROVIDE NEW RESILIENT FLOORING -SEE SPECIFICATIONS.

5 IMAGE 5



- EXISTING SHAFT AND RAILS TO REMAIN - SEE VT SPECIFICATIONS FOR FULL

> DEMO EXISTING ELEVATOR EQUIPMENT -SEE VT SPECIFICATIONS FOR FULL SCOPE OF WORK .

212 N 3rd Avenue, Ste. 312 Minneapolis, MN 55401 P: 612-355-7111

All reports, plans, specifications, computer files, field data, notes and other documents and instruments prepared by

OPN Architects, Inc. as instruments of service shall remain the property of OPN Architects, Inc. OPN Architects, Inc. shall retain all common law, statutory and other reserved

IOWA WORKFORCE DEVELOPMENT

**ELEVATOR MODERNIZATIONS** 

220 SE 6TH STREET, SUITE 200

7625 GOLDEN TRIANGLE DRIVE,

EDEN PRAIRIE, MN 55344

WEST DES MOINES, IA 50317

WEST DES MOINES, IA 50317

1000 E GRAND AVENUE DES MOINES, IA 50319

DES MOINES, IA 50309

CONSTRUCTION MANAGER

**DCI GROUP** 

ELEVATOR CONSULTANT LERCH BATES

Mechanical Engineer

Electrical Engineer

KCL ENGINEERING 300 4TH STREET

KCL ENGINEERING 300 4TH STREET

www.opnarchitects.com

rights, including the copyright thereto.

© 2025 OPN Architects, Inc.

STATE OF IOWA

109 SE 13TH STREET DES MOINES, IA 50319

Owner

REMOVE EXISTING
 LADDER COMPLETE AND
 PROVIDE NEW - SEE VT
 SPECIFICATIONS.



SPECIFICATIONS FOR DEMO ITEMS AND FOR EXISTING ELEVATOR ITEMS TO REMAIN.

EXISTING STL FRAMES TO REMAIN - PROTECT IN PLACE -PAINT. PROVIDE NEW STL. DOORS, COLOR TO MATCH -SEE VT DRAWING FOR FULL SCOPE OF WORK.

REMOVE AND REPLACE EXISTING SIGNAGE.

REMOVE EXISTING HALLWAY FIXTURES COMPLETE. NEW ELEVATOR FIXTURES SHOULD COMPLETELY COVER EXISTING CONDITION.

 PROTECT IN PLACE ALL EXISTING LOBBY FINISHES DURING CONSTRUCTION. PROVIDE TEMPORARY ENCLOSURES AS REQUIRED DURING CONSTRUCTION TO PROTECT WORK AND HOISTWAYS.

4 IMAGE 4

7 IMAGE 7



SEE ELECTRICAL FOR DETECTION REQUIREMENTS.

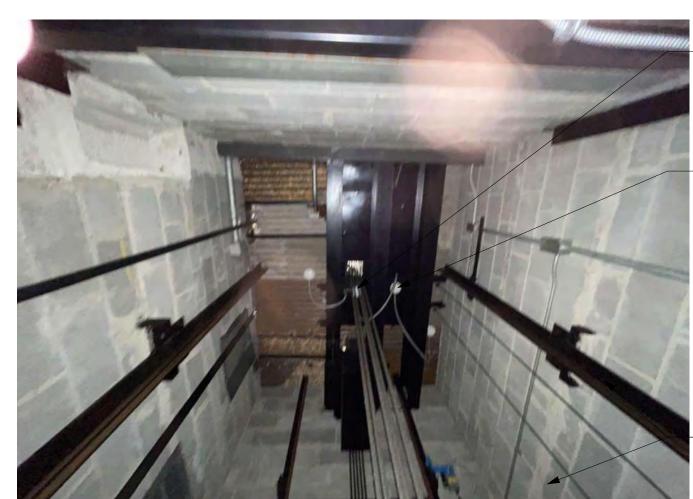
DEMO EXISTING ELEVATOR EQUIPMENT -SEE VT SPECIFICATIONS FOR FULL SCOPE OF WORK.

EXISTING SHAFT VENTING TO REMAIN.

EXISTING SHAFT AND RAILS TO REMAIN - SEE VT

SPECIFICATIONS FOR FULL

SCOPE.



DEMO EXISTING ELEVATOR EQUIPMENT -SEE VT SPECIFICATIONS FOR FULL SCOPE OF WORK .

SEE ELECTRICAL FOR DETECTION REQUIREMENTS.

EXISTING SHAFT AND RAILS TO REMAIN - SEE VT SPECIFICATIONS FOR FULL SCOPE.

9 IMAGE 9

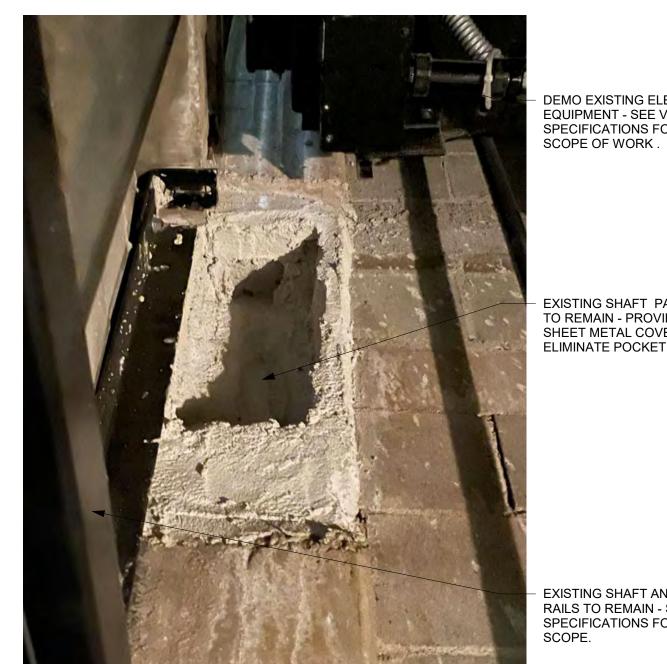


PROVIDE ALL NEW FINISHES IN ELEVATOR CAB - SEE ELEVATIONS AND VT SPECIFICATIONS.

PROVIDE NEW ELEVATOR CONTROL PANEL IN CAB - SEE ELEVATIONS. MAINTAIN EXISTING FLOOR DESIGNATIONS.

PROVIDE NEW RESILIENT FLOORING - SEE SPECIFICATIONS.

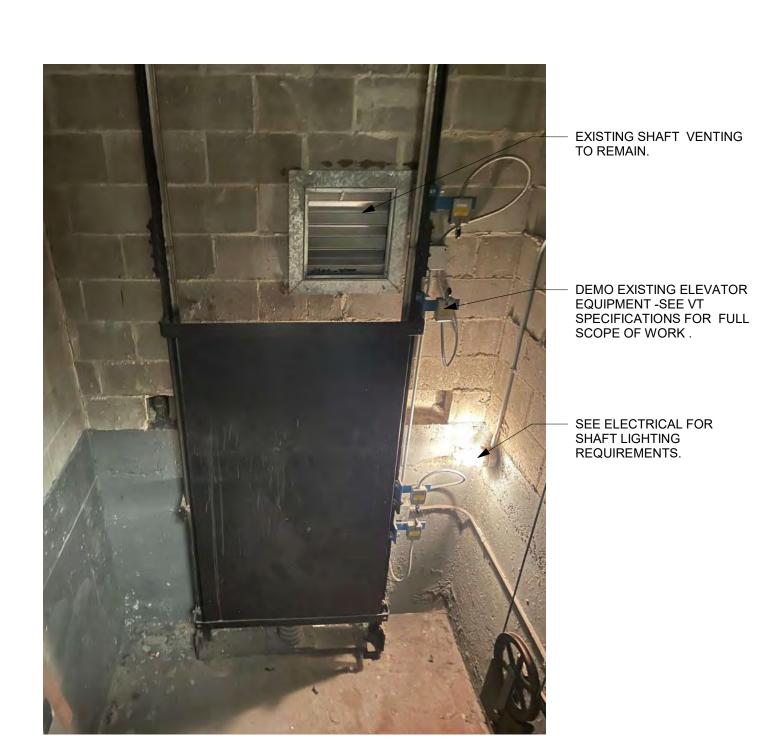
8 IMAGE 8



DEMO EXISTING ELEVATOR EQUIPMENT - SEE VT SPECIFICATIONS FOR FULL

EXISTING SHAFT PATCHING TO REMAIN - PROVIDE SHEET METAL COVER TO ELIMINATE POCKET.

- EXISTING SHAFT AND RAILS TO REMAIN - SEE VT SPECIFICATIONS FOR FULL



OPN Project No. **24850000** 

Key Plan

Sheet Issue Date

Sheet Name **EXISTING CONDITIONS** 

03/14/2025



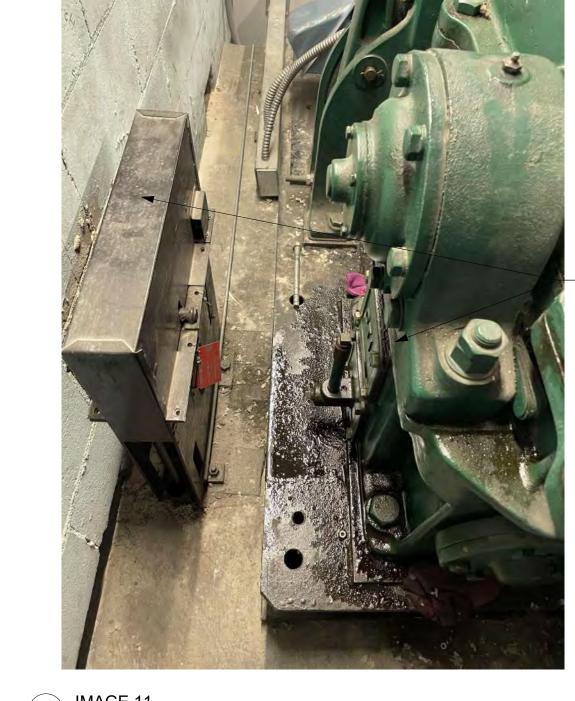
- PANNING TO REMAIN ABOVE, PROVIDE NEW 2 HR GYPSUM ENCLOSURE AROUND MACHINE ROOM.

SEE VT SPECIFICATIONS FOR DEMO ITEMS AND FOR EXISTING ELEVATOR ITEMS TO REMAIN.

NEW OSHA APPROVED ACCESS LADDER - LADDER RAIL TO BE WITHIN 4" OF ADJACENT WALL. PROVIDE NEW HM PIPE GUARDRAIL - RAIL TO BE 42" TALL 2-PIPE, 1-1/2" DIA. - HM PIPE PAINT - SIDE WALL MOUNT TO ENCLOSURE. INSTALL TO PROVIDE NO LARGER THAN 4" GAP AT WALL OR LADDER.

- DEMO EXISTING CHAIN LINK FENCE COMPLETE.





SPECIFICATIONS FOR DEMO ITEMS AND FOR EXISTING ELEVATOR ITEMS TO REMAIN.



> EXISTING SHAFT VENTING TO REMAIN. RELOCATE CONTROLLER TO BE ACCESSIBLE OUTSIDE THE NEW ELEVATOR MACHINE ROOM.

DEMO EXISTING CHAIN LINK FENCE COMPLETE.

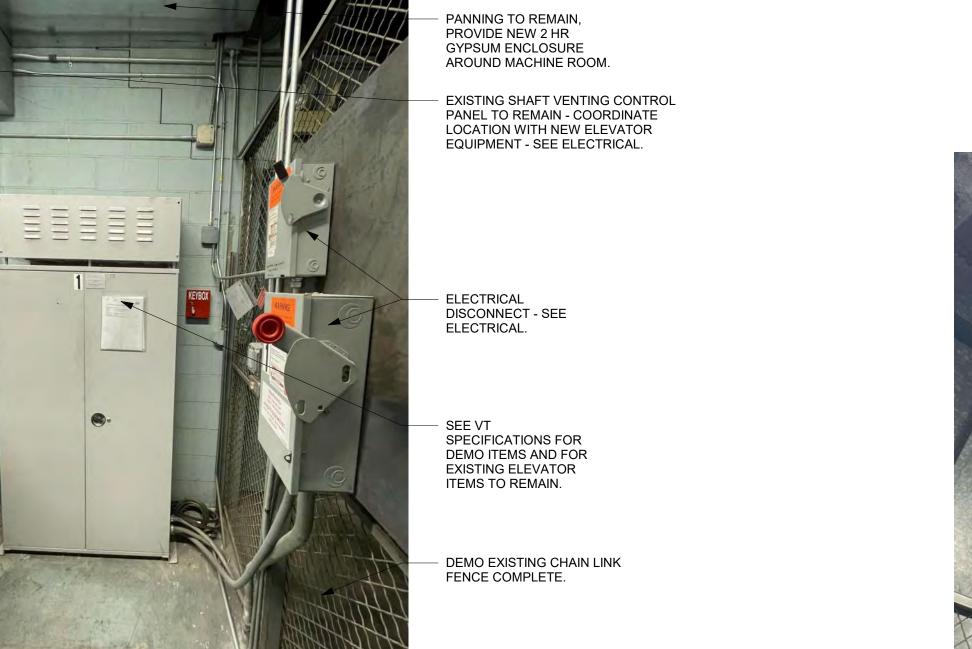




EXISTING SHAFT VENTING CONTROL PANEL TO REMAIN - COORDINATE LOCATION WITH NEW ELEVATOR EQUIPMENT - SEE ELECTRICAL.



14 IMAGE 14



15 IMAGE 15

DEMO EXISTING CHAIN LINK FENCE COMPLETE.

— EXISTING SHAFT VENTING CONTROL PANEL TO REMAIN - COORDINATE LOCATION WITH NEW ELEVATOR EQUIPMENT - SEE ELECTRICAL.

PANNING TO REMAIN,
PROVIDE NEW 2 HR
GYPSUM ENCLOSURE
AROUND MACHINE ROOM.

ELECTRICAL LIGHTING -SEE ELECTRICAL.



 EXISTING SHAFT VENTING TO REMAIN. RELOCATE CONTROLLER TO BE ACCESSIBLE OUTSIDE THE NEW ELEVATOR MACHINE ROOM.

DEMO EXISTING CHAIN LINK FENCE COMPLETE.



13 IMAGE 13

Key Plan

Sheet Issue Date

212 N 3rd Avenue, Ste. 312 Minneapolis, MN 55401 P: 612-355-7111

All reports, plans, specifications, computer files, field data, notes and other documents and instruments prepared by

OPN Architects, Inc. as instruments of service shall remain the property of OPN Architects, Inc. OPN Architects, Inc. shall retain all common law, statutory and other reserved rights, including the copyright thereto.

IOWA WORKFORCE DEVELOPMENT **ELEVATOR MODERNIZATIONS** 

www.opnarchitects.com

© 2025 OPN Architects, Inc.

STATE OF IOWA 109 SE 13TH STREET DES MOINES, IA 50319

1000 E GRAND AVENUE DES MOINES, IA 50319

DES MOINES, IA 50309

220 SE 6TH STREET, SUITE 200

7625 GOLDEN TRIANGLE DRIVE,

SUITE T EDEN PRAIRIE, MN 55344

WEST DES MOINES, IA 50317

WEST DES MOINES, IA 50317

CONSTRUCTION MANAGER **DCI GROUP** 

ELEVATOR CONSULTANT **LERCH BATES** 

Mechanical Engineer

Electrical Engineer

KCL ENGINEERING 300 4TH STREET

KCL ENGINEERING 300 4TH STREET

Owner

Sheet Name **EXISTING CONDITIONS** 

AD201.3



SPECIFICATIONS FOR DEMO ITEMS AND FOR EXISTING ELEVATOR ITEMS TO REMAIN.

EXISTING ST. STL FRAMES TO REMAIN -PROTECT IN PLACE. PROVIDE NEW ST. STL. DOORS - SEE VT DRAWING FOR FULL SCOPE OF WORK.

REMOVE AND REPLACE EXISTING SIGNAGE.

 REMOVE EXISTING HALLWAY FIXTURES COMPLETE. NEW ELEVATOR FIXTURES SHOULD COMPLETELY COVER EXISTING CONDITION.

 PROTECT IN PLACE ALL EXISTING LOBBY FINISHES DURING CONSTRUCTION. PROVIDE TEMPORARY ENCLOSURES AS REQUIRED DURING CONSTRUCTION TO PROTECT WORK AND HOISTWAYS.





SEE VT SPECIFICATIONS FOR DEMO ITEMS AND FOR EXISTING ELEVATOR ITEMS TO REMAIN.

EXISTING STL FRAMES TO REMAIN -PROTECT IN PLACE - PAINT. PROVIDE NEW STL. DOORS - SEE VT DRAWING FOR FULL SCOPE OF WORK.

REMOVE AND REPLACE EXISTING SIGNAGE.

REMOVE EXISTING HALLWAY FIXTURES COMPLETE. NEW ELEVATOR FIXTURES SHOULD COMPLETELY COVER EXISTING CONDITION.

 PROTECT IN PLACE ALL EXISTING LOBBY FINISHES DURING CONSTRUCTION. PROVIDE TEMPORARY ENCLOSURES AS REQUIRED DURING CONSTRUCTION TO PROTECT WORK AND HOISTWAYS.



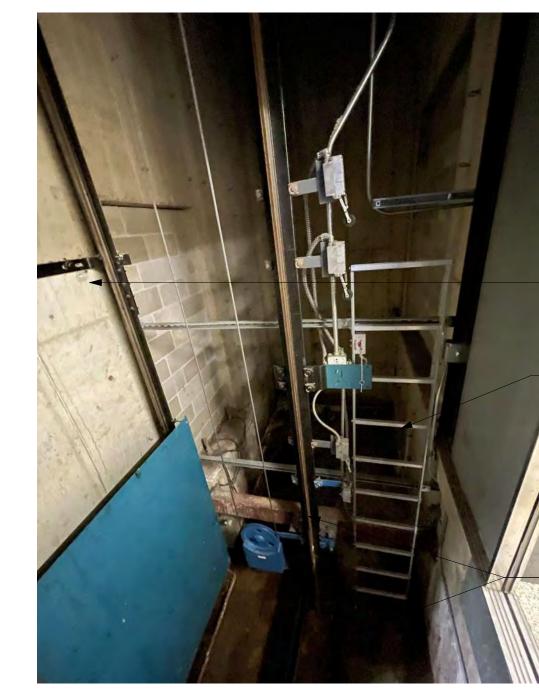


PROVIDE ALL NEW FINISHES IN
\_ ELEVATOR CAB - SEE ELEVATIONS AND
VT SPECIFICATIONS.

PROVIDE NEW ELEVATOR CONTROL PANEL IN CAB - SEE ELEVATIONS. MAINTAIN EXISTING FLOOR DESIGNATIONS.

PROVIDE NEW RESILIENT FLOORING - SEE SPECIFICATIONS.





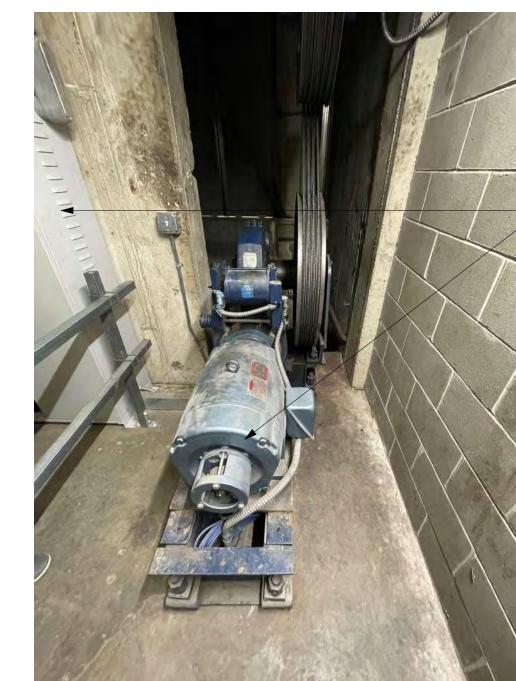
- EXISTING SHAFT AND RAILS TO REMAIN - SEE VT SPECIFICATIONS FOR FULL SCOPE.

SPECIFICATIONS FOR DEMO ITEMS AND FOR EXISTING ELEVATOR ITEMS TO REMAIN.

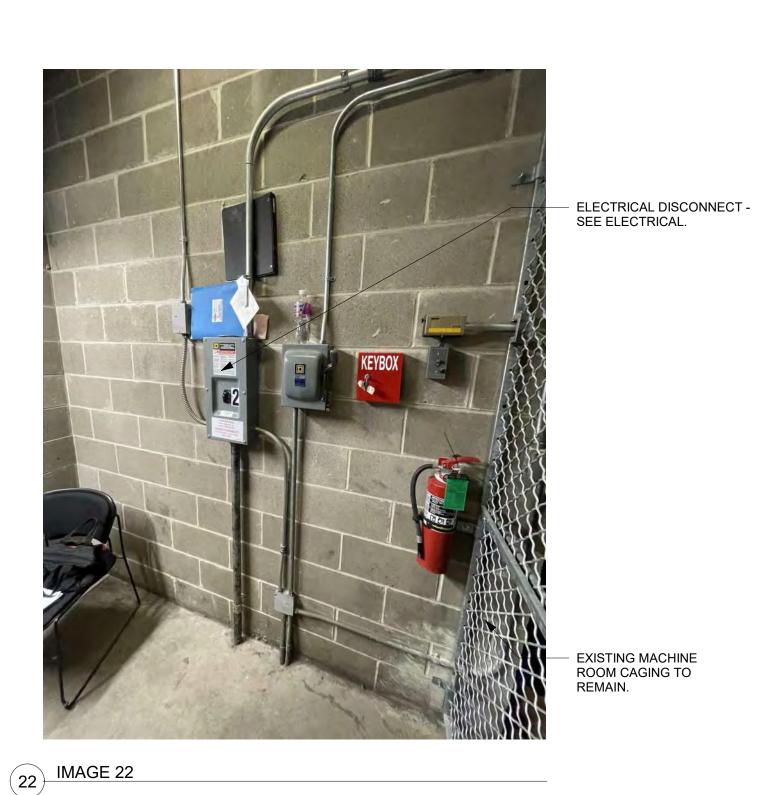
PROVIDE NEW ELEVATOR
 SHAFT LIGHTING - SEE
 ELECTRICAL.

REMOVE AND PROVIDE NEW CODE COMPLIANT ELEVATOR PIT LADDER.

(18) IMAGE 18



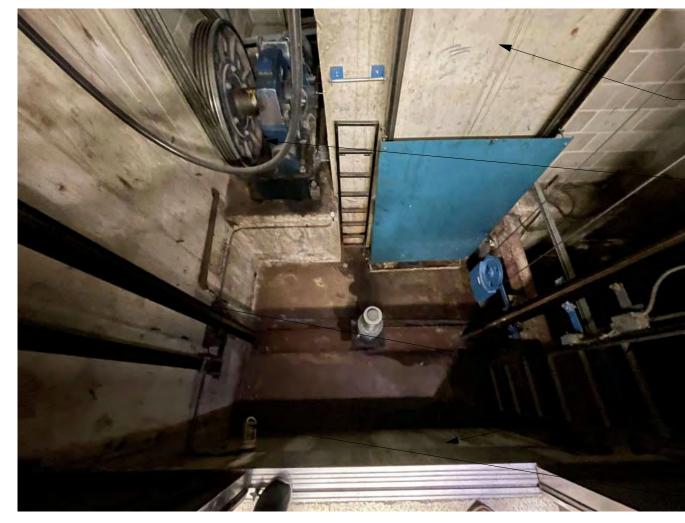
(20) IMAGE 20



EXISTING MACHINE ROOM CAGING TO REMAIN.



(24) IMAGE 24



PROVIDE NEW ELEVATOR
SHAFT LIGHTING - SEE
ELECTRICAL.

SEE VT SPECIFICATIONS
 FOR DEMO ITEMS AND FOR
 EXISTING ELEVATOR ITEMS

TO REMAIN.

SPECIFICATIONS FOR DEMO ITEMS AND FOR EXISTING ELEVATOR ITEMS TO REMAIN.

REMOVE AND PROVIDE NEW CODE COMPLIANT ELEVATOR PIT LADDER.

 EXISTING SHAFT AND RAILS TO REMAIN - SEE VT SPECIFICATIONS FOR FULL SCOPE.

EXISTING PIT DETECTION AND SHAFT LIGHTING - SEE ELECTRICAL.

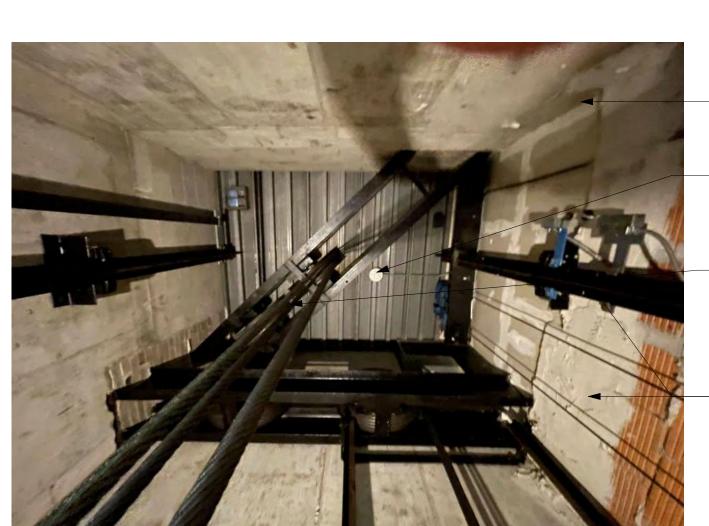


PROVIDE NEW ELEVATOR
SHAFT LIGHTING - SEE
ELECTRICAL.

SEE VT SPECIFICATIONS
 FOR DEMO ITEMS AND FOR
 EXISTING ELEVATOR ITEMS
 TO REMAIN.

- EXISTING SHAFT AND RAILS TO REMAIN - SEE VT SPECIFICATIONS FOR FULL SCOPE.

25 IMAGE 25



PROVIDE NEW ELEVATOR
 SHAFT LIGHTING - SEE
 ELECTRICAL.

SHAFT DETECTION - SEE ELECTRICAL.

SEE VT SPECIFICATIONS FOR DEMO ITEMS AND FOR EXISTING ELEVATOR ITEMS

EXISTING SHAFT AND
 RAILS TO REMAIN - SEE
 VT SPECIFICATIONS FOR
 FULL SCOPE.

Key Plan

212 N 3rd Avenue, Ste. 312 Minneapolis, MN 55401 P: 612-355-7111

All reports, plans, specifications, computer files, field data, notes and other documents and instruments prepared by

OPN Architects, Inc. as instruments of service shall remain the property of OPN Architects, Inc. OPN Architects, Inc. shall retain all common law, statutory and other reserved

IOWA WORKFORCE DEVELOPMENT **ELEVATOR MODERNIZATIONS** 

www.opnarchitects.com

rights, including the copyright thereto.

© 2025 OPN Architects, Inc.

STATE OF IOWA

109 SE 13TH STREET DES MOINES, IA 50319

1000 E GRAND AVENUE DES MOINES, IA 50319

DES MOINES, IA 50309

220 SE 6TH STREET, SUITE 200

7625 GOLDEN TRIANGLE DRIVE,

SUITE T EDEN PRAIRIE, MN 55344

WEST DES MOINES, IA 50317

WEST DES MOINES, IA 50317

CONSTRUCTION MANAGER

DCI GROUP

ELEVATOR CONSULTANT

**LERCH BATES** 

Mechanical Engineer

Electrical Engineer

KCL ENGINEERING

KCL ENGINEERING 300 4TH STREET

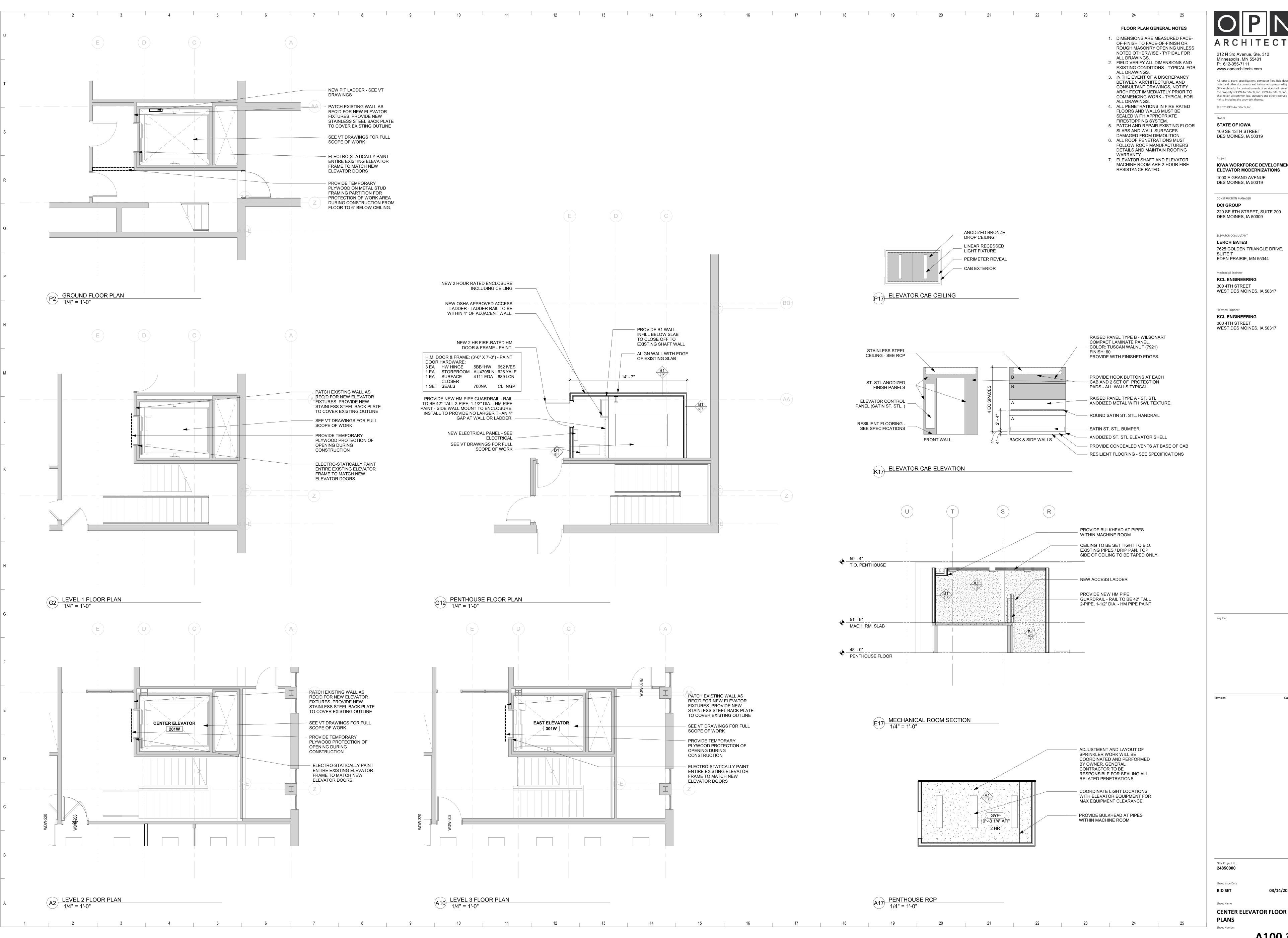
300 4TH STREET

Owner

Sheet Issue Date

OPN Project No. **24850000** 

Sheet Name **EXISTING CONDITIONS** 



212 N 3rd Avenue, Ste. 312 Minneapolis, MN 55401 P: 612-355-7111 www.opnarchitects.com

All reports, plans, specifications, computer files, field data, notes and other documents and instruments prepared by OPN Architects, Inc. as instruments of service shall remain the property of OPN Architects, Inc. OPN Architects, Inc. shall retain all common law, statutory and other reserved rights, including the copyright thereto. © 2025 OPN Architects, Inc.

> STATE OF IOWA 109 SE 13TH STREET DES MOINES, IA 50319

IOWA WORKFORCE DEVELOPMENT **ELEVATOR MODERNIZATIONS** 

CONSTRUCTION MANAGER DCI GROUP 220 SE 6TH STREET, SUITE 200 DES MOINES, IA 50309

ELEVATOR CONSULTANT LERCH BATES 7625 GOLDEN TRIANGLE DRIVE, EDEN PRAIRIE, MN 55344

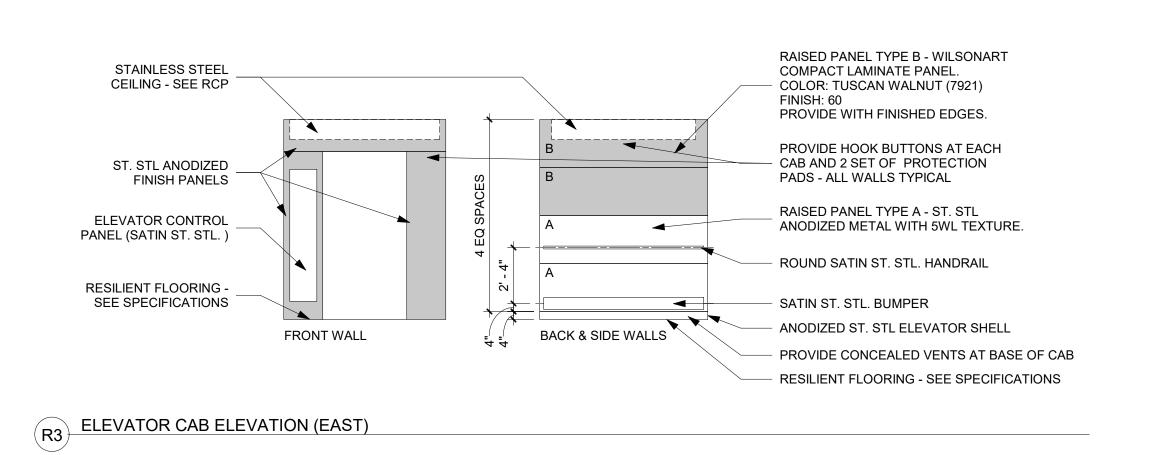
Mechanical Engineer KCL ENGINEERING 300 4TH STREET WEST DES MOINES, IA 50317

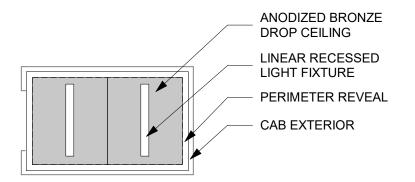
Electrical Engineer KCL ENGINEERING 300 4TH STREET WEST DES MOINES, IA 50317

OPN Project No. 24850000

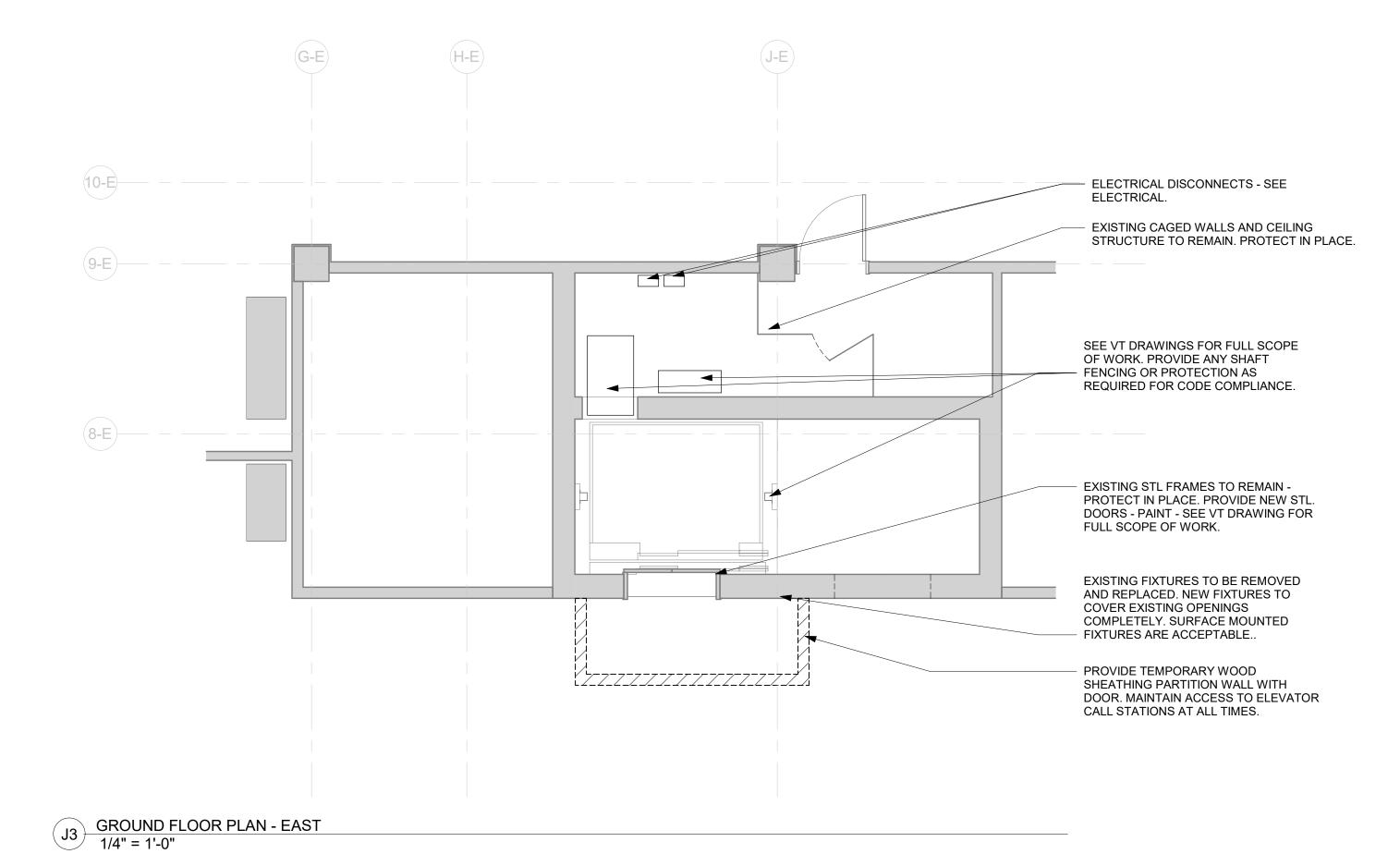
03/14/2025 **BID SET** Sheet Name

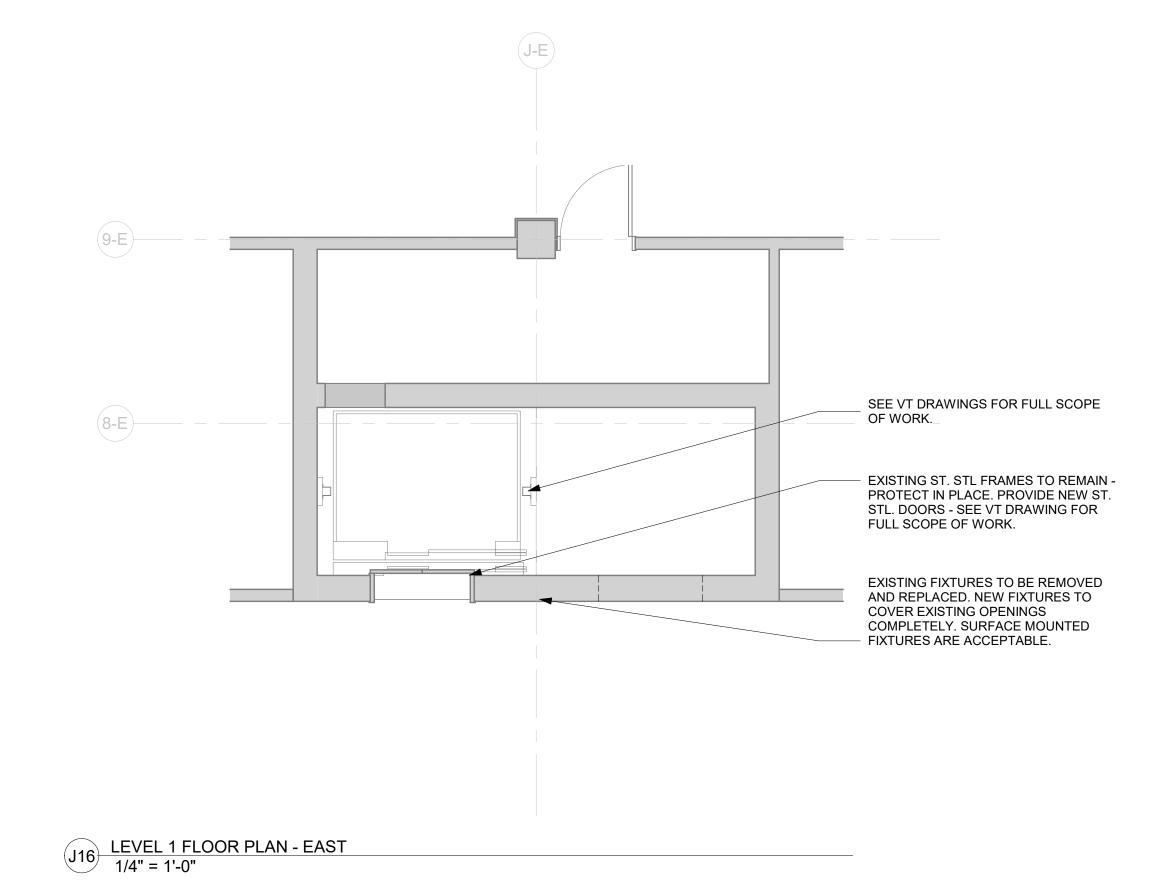
A100.3

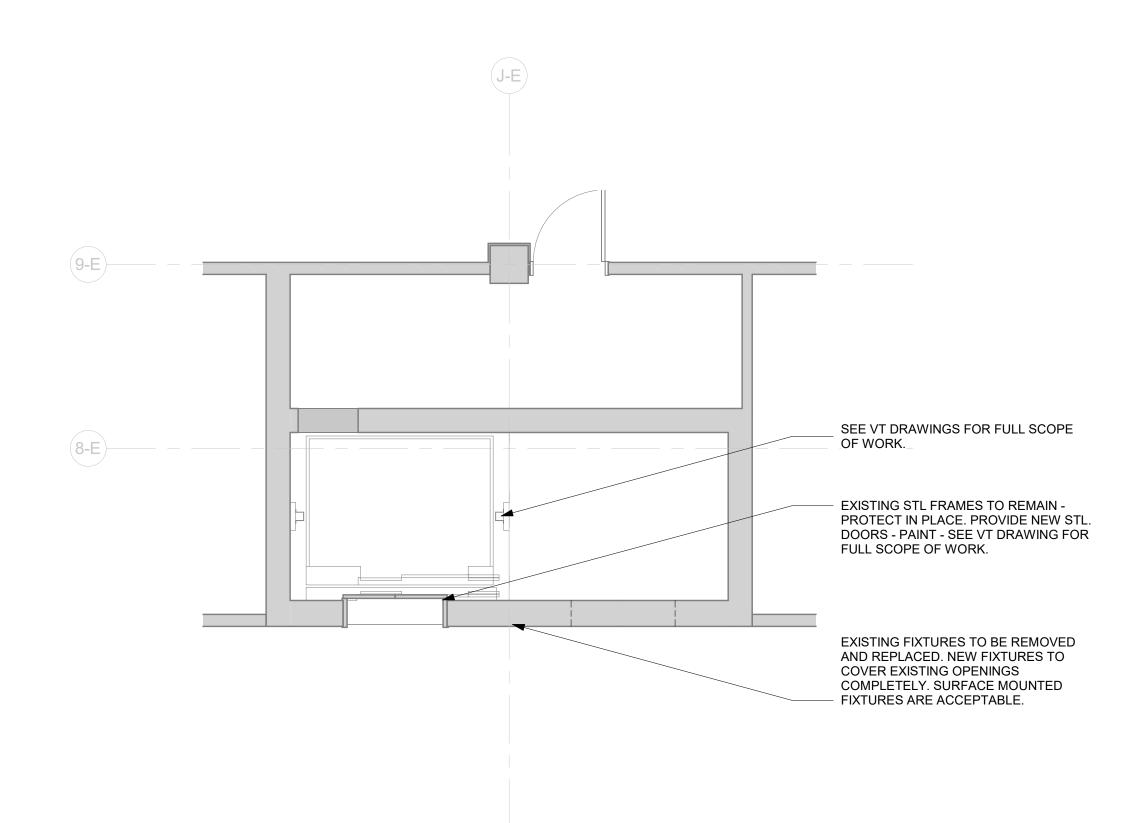




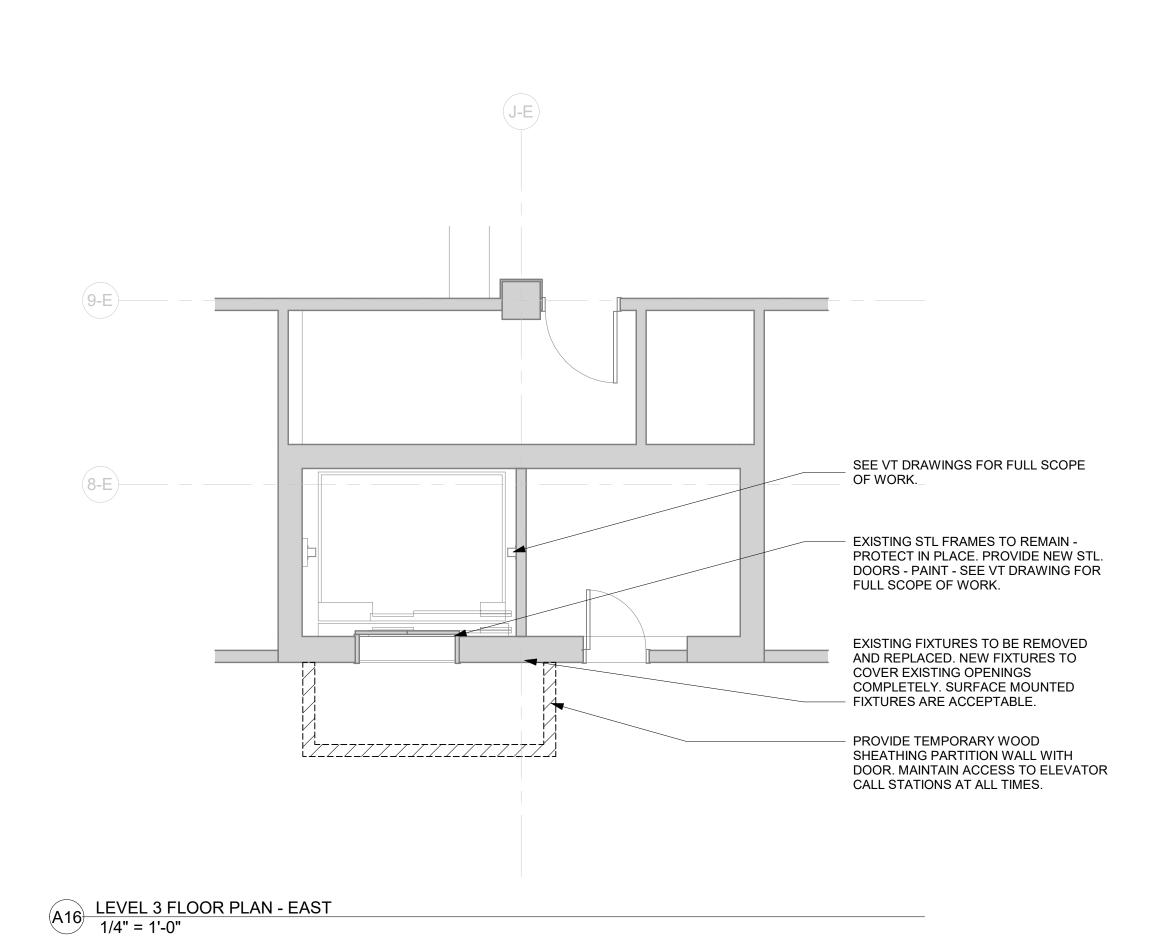
R11 ELEVATOR CAB CEILING (EAST)







A2 LEVEL 2 FLOOR PLAN - EAST 1/4" = 1'-0"



OPN Project No. **24850000** 

Key Plan

Sheet Issue Date
BID SET 03/14/2025

212 N 3rd Avenue, Ste. 312 Minneapolis, MN 55401 P: 612-355-711

All reports, plans, specifications, computer files, field data, notes and other documents and instruments prepared by

OPN Architects, Inc. as instruments of service shall remain

IOWA WORKFORCE DEVELOPMENT ELEVATOR MODERNIZATIONS

the property of OPN Architects, Inc. OPN Architects, Inc. shall retain all common law, statutory and other reserved

www.opnarchitects.com

rights, including the copyright thereto.

© 2025 OPN Architects, Inc.

STATE OF IOWA

109 SE 13TH STREET

DES MOINES, IA 50319

1000 E GRAND AVENUE DES MOINES, IA 50319

DES MOINES, IA 50309

220 SE 6TH STREET, SUITE 200

7625 GOLDEN TRIANGLE DRIVE,

EDEN PRAIRIE, MN 55344

WEST DES MOINES, IA 50317

WEST DES MOINES, IA 50317

CONSTRUCTION MANAGER

DCI GROUP

LERCH BATES

Mechanical Engineer

Electrical Engineer

KCL ENGINEERING
300 4TH STREET

KCL ENGINEERING
300 4TH STREET

Owner

Sheet Name

EAST ELEVATOR FLOOR

PLANS

A101.3

#### MECHANICAL - GENERAL NOTES

- COORDINATE MECHANICAL AND ELECTRICAL WORK WITH ALL OTHER TRADES. BEGIN INSTALLATION AND ROUGH-IN AFTER COORDINATION WITH ALL TRADES ASSOCIATED WITH THE INSTALLATION IS COMPLETE. COORDINATE BUILDING STRUCTURE, ARCHITECTURAL ASSEMBLIES, SHEET METAL, ALL PIPING SYSTEMS, LIGHT FIXTURES, CONDUITS, CABLE TRAYS, ETC. REFER TO ALL GENERAL, MECHANICAL, AND ELECTRICAL DRAWINGS AND SPECIFICATIONS FOR THIS PROJECT. CONTRACTOR IS RESPONSIBLE FOR REWORK ASSOCIATED WITH FAILURE TO COORDINATE.
- INCORPORATE MECHANICAL SPECIFICATIONS, DRAWINGS, STATE AND LOCAL CODES, AND OWNER STANDARDS INTO WORK.
- REFER TO ARCHITECTURAL SPECIFICATIONS FOR THROUGH-PENETRATION FIRESTOPPING AND TO ARCHITECTURAL CODE PLAN FOR FIRE RATED WALLS, FLOORS, AND CEILINGS. EACH TRADE IS RESPONSIBLE TO FIRESTOP PENETRATIONS THROUGH RATED ASSEMBLIES.
- EACH TRADE IS RESPONSIBLE FOR MAKING PENETRATIONS WHERE REQUIRED IN EXISTING WALLS, FLOORS, CEILINGS, AND ROOFS. MAKE PENETRATIONS NEAT. PATCH, CONCEAL, OR
- COVER EXPOSED WALL PENETRATIONS WITH ESCUTCHEONS OR SHEET METAL AS
- CAULK ALL CONCEALED AND EXPOSED PIPING AND DUCT WALL PENETRATIONS TO PREVENT NOISE TRANSFER BETWEEN SPACES.
- ON COMPLETION OF THE INSTALLATION, COOPERATE WITH THE OWNER TO PROVIDE TESTING, ADJUSTING, AND BALANCING TO OBTAIN PROPER OPERATION OF ALL EQUIPMENT AND SYSTEMS. PROVIDE ALL FACILITIES AND EQUIPMENT AND COMPLETE ALL TESTS REQUIRED FOR ADJUSTMENTS AND BALANCING TO ESTABLISH THE PROPER PERFORMANCE OF EQUIPMENT.
- PROVIDE WARRANTIES FOR ALL EQUIPMENT AND INSTALLATION PER THE CONTRACT DOCUMENTS, CONDITIONING REFRIGERATION SYSTEMS SHALL BE WARRANTED FOR A MINIMUM OF 5 YEARS, PARTS ONLY, NON-PRORATED, FROM THE DATE OF OCCUPANCY OR SUBSTANTIAL COMPLETION, OR WHICHEVER OCCURS FIRST. THE WARRANTY SHALL COVER COMPRESSORS. EVAPORATORS. CONDENSER COILS. HIGH AND LOW SIDE PIPING. AND PIPING SPECIALTIES INCLUDING EXPANSION AND SOLENOID VALVES. RELIEF VALVES. FILTER-DRYER, AND SIGHT GLASSES. PRESSURE GAUGES AND PRESSURE SWITCHES ARE NOT UNDER THE EXTENDED WARRANTY EXCEPT FOR LOSS OF REFRIGERANT AND CONSEQUENTIAL DAMAGE TO THE SYSTEM WHICH WILL BE AN EXTENDED WARRANTY OBLIGATION. ALL DEFECTS THAT BECOME APPARENT WITHIN THE WARRANTY PERIOD SHALL BE REPAIRED BY THE MECHANICAL CONTRACTOR AS DIRECTED BY THE ENGINEER THROUGH THE OWNER'S REPRESENTATIVE. WARRANTY DOES NOT OBLIGATE THE MECHANICAL CONTRACTOR TO REPAIR DAMAGE RESULTING FROM THE OWNER'S ACCIDENT. IMPROPER OPERATION, OR FAILURE TO PROVIDE MAINTENANCE. WARRANTY COVERS DEFECTIVE MATERIAL AND INSTALLATION. REFER TO SPECIFICATIONS FOR ADDITIONAL DETAILS AND OTHER WARRANTY INFORMATION.

#### **HVAC - NOTES**

- 1. COORDINATE WORK WITH ALL OTHER TRADES AS DESCRIBED IN MECHANICAL GENERAL NOTE #1.
- PROVIDE MECHANICAL EQUIPMENT, SUPPORTS, HANGERS, AND ALL APPURTENANCES. INSTALL ALL EQUIPMENT PER MANUFACTURER'S RECOMMENDATIONS. INSTALL SYSTEM TO MEET ALL CITY AND STATE CODES AND REQUIREMENTS.
- DRAWING PLANS, SCHEMATICS, AND DIAGRAMS INDICATE GENERAL LOCATION AND ARRANGEMENT OF DUCT SYSTEM. INDICATED DUCT LOCATIONS, CONFIGURATIONS, AND ARRANGEMENTS WERE USED TO SIZE DUCTS AND CALCULATE FRICTION LOSS FOR AIR-HANDLING EQUIPMENT SIZING AND FOR OTHER DESIGN CONSIDERATIONS. INSTALL DUCT SYSTEMS AS INDICATED UNLESS DEVIATIONS TO LAYOUT ARE APPROVED BY ARCHITECT/ENGINEER.
- PROVIDE FIRE CAULKING ASSEMBLIES FOR PENETRATIONS OF RATED ASSEMBLIES. REFER TO ARCHITECTURAL DRAWINGS FOR ASSEMBLY RATINGS.
- CONTINUE PIPE INSULATION THROUGH WALLS, FLOORS, AND CEILING PENETRATIONS UNBROKEN, EXCEPT WHERE FIRE OR

FIRE/SMOKE DAMPERS ARE INSTALLED IN DUCTWORK.

EXTEND EXISTING SIEMENS CONTROL SYSTEM AS REQUIRED FOR ADDITIONAL SENSOR NEAR ELEVATOR EQUIPMENT.

#### SPLIT SYSTEM INDOOR UNIT SCHEDULE REFERENCE **MANUFACTURER** MITSUBISHI PKA-A24 MODEL# **TYPE** WALL MOUNT **HOOVER PENTHOUSE SERVES** WEIGHT (LBS) **DIMENSIONS - L x W x D (INCHES)** 46x14x11 NOMINAL CAPACITY (TONS) 2.00 775 MAX UNIT AIRFLOW (CFM) **EXTERNAL STATIC PRESSURE (IN. W.G.)** 0.2 COOLING CAPACITY - RATED (BTU/H) SEER 21.1 **R454B REFRIGERANT TYPE** 208 - 1 **VOLTAGE - PH ELECTRICAL DATA** MCA 1.00 MOCP SEE SSO SCHEDULE **NOTES** 1 THROUGH 5

## 1. PROVIDE WITH REMOTE WALL MOUNTED THERMOSTAT. WIRING BY M.C.

- 2. INDOOR UNIT RECEIVES POWER FROM OUTDOOR UNIT BY INTERCONNECTED WIRING PROVIDED WITH UNIT, WIRING
- INSTALLATION AND DISCONNECT BY E.C. 3. COOLING RATED CAPACITY IS BASED ON THE FOLLOWING CONDITIONS. INDOOR: 80°F/67°FF, OUTDOOR: 95°F/75°F
- 4. PROVIDE FILTER WITH UNIT.

5. UNIT IS COOLING ONLY.

REFERENCE	SSO-1
MANUFACTURER	MITSUBISHI
MODEL#	PUY-A24NHA7
SERVES	SSI-1
WEIGHT (LBS)	151
DIMENSIONS W/ CURB & ACCESSORIES - L x W x H (INCHES)	37x37x13
NOMINAL CAPACITY (TONS)	2.00
COOLING CAPACITY - RATED (BTU/H)	24,000
REFRIGERANT TYPE	R454B
COMPRESSOR QUANTITY	1
EFFICIENCY	
SEER	17.5
ELECTRICAL DATA	
VOLTAGE - PH	208 - 1
MCA	19
MOCP	26
NOTES	1,2,3,4

## 1. DISCONNECT SHALL BE PROVIDED / INSTALLED BY E.C.

ENGINEERING

300 4th St

West Des Moines, IA

50265

515-724-7938

- 2. UNIT TO BE MOUNTED ON EXTERIOR SIDEWALL. REFER TO INSTALLATION DETAIL ON PLANS.
- 3. REFER TO SPLIT SYSTEM INDOOR UNIT SCHEDULE FOR CAPACITY RATING CONDITIONS.
- 4. SYSTEM REQUIRES LOW AMBIENT AIR COOLING OPERATION (-20 °F), PROVIDE LOW AMBIENT WIND BAFFLES.

#### **ELECTRICAL ABBREVIATIONS**

FACP FIRE ALARM CONTROL PANEL

N NEW DEVICE IN EXISTING LOCATION

FSD FIRE SMOKE DAMPER

MLO MAIN LUGS ONLY

- A DEVICE MOUNTED +8" ABOVE NIC NOT IN CONTRACT COUNTER TOP (VERIFY LOCATION) NM NONMETALLIC AFF ABOVE FINISHED FLOOR
- NTS NOT TO SCALE ATS AUTOMATIC TRANSFER SWITCH OC ON CENTER OFCI OWNER FURNISHED CEILING CIRCUIT BREAKER CONTRACTOR INSTALLED

1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21

CURRENT TRANSFORMER OFOI OWNER FURNISHED, EXISTING ITEM TO REMAIN OWNER INSTALLED **ELECTRICAL CONTRACTOR** EXISTING ITEM TO BE REMOVED EMERGENCY LIGHT FIXTURE RR EXISTING ITEM TO BE REMOVED AND NEW LOCATION OF EXISTING ITEM RELOCATED ROUGH IN FOR FUTURE DEVICE RN EXISTING ITEM TO BE REMOVED AND FAAP FIRE ALARM ANNUNCIATOR PANEL REPLACED WITH NEW

SCCR SHORT CIRCUIT CURRENT RATING

TAMPER PROOF DEVICE

WEATHERPROOF DEVICE

WEATHER RESISTANT DEVICE

INDICATES MOUNTING HEIGHT CENTER

LINE OF DEVICE TO FINISHED FLOOR

- GROUND FAULT CIRCUIT INTERRUPTER TCC TEMPERATURE CONTROL CONTRACTOR GND GROUND TELEVISION TYP TYPICAL KVA KILO-VOLT-AMPERES UPS UNINTERRUPTIBLE POWER SUPPLY KW KILOWATTS MC MECHANICAL CONTRACTOR VOLTS MCB MAIN CIRCUIT BREAKER VOLT-AMPERES MDP MAIN DISTRIBUTION PANEL WIREGUARD COVER
- **GENERAL NOTES ELECTRICAL**
- COORDINATE LOCATION/INSTALLATION OF MECHANICAL AND ELECTRICAL WORK WITH ALL OTHER TRADES. BEGIN INSTALLATION AND ROUGH-IN ONLY AFTER PROPER AND TIMELY COORDINATION WITH ALL TRADES ASSOCIATED WITH THE INSTALLATION IS COMPLETE. COORDINATE WITH BUILDING STRUCTURE, ARCHITECTURE, MECHANICAL SHEET METAL, ALL PIPING SYSTEMS, LIGHT FIXTURES, CONDUITS, CABLE TRAYS, EQUIPMENT ACCESS/CLEARANCE, ETC. REFER TO ALL GENERAL, MECHANICAL, AND ELECTRICAL DRAWINGS AND SPECIFICATIONS FOR THIS PROJECT. CONTRACTOR IS RESPONSIBLE FOR REWORK OF INSTALLED EQUIPMENT RESULTING FROM INSUFFICIENT COORDINATION.

WR

ELECTRICAL DRAWINGS ARE ONLY A PORTION OF THE COMPLETE SET OF PLANS AND CONTRACT DOCUMENTS. THE ELECTRICAL SCOPE OF WORK IS DEFINED BY THE COMPLETE SET OF CONTRACT DOCUMENTS. THIS INCLUDES BUT IS NOT LIMITED TO REFERENCING; ARCHITECTURAL PLANS FOR DIMENSIONS AND DETAILS; EQUIPMENT PLANS FOR ROUGH-IN REQUIREMENTS, MECHANICAL PLANS FOR EQUIPMENT SIZES AND LOCATIONS.

### **INSTALLATION NOTES - ELECTRICAL**

- INCREASE CONDUCTOR SIZES ON 20A 120V-1 PHASE CIRCUITS EXCEEDING 100 FEET TO CENTER OF LOAD TO ACCOUNT FOR VOLTAGE DROP.
- RACEWAYS AND BOXES ARE SHOWN DIAGRAMMATICALLY ONLY AND INDICATE GENERAL AND APPROXIMATE LOCATIONS. LAYOUTS DO NOT ALWAYS SHOW THE TOTAL NUMBER OF RACEWAYS OR BOXES FOR THE CIRCUITS REQUIRED, NOR ARE THE LOCATIONS OF INDICATED RUNS INTENDED TO SHOW THE ACTUAL ROUTING OF THE RACEWAYS.
- LIGHT FIXTURES, SWITCHES, DEVICES, ETC. ARE SHOWN IN PREFERRED LOCATION. MODIFY CONDUIT, HANGERS, CIRCUITING, ETC. TO PROVIDE A COMPLETE AND OPERATIONAL SYSTEM.
- PROVIDE A DEDICATED GREEN INSULATED GROUND CONDUCTOR TO ALL DEVICES. DO NOT USE CONDUIT SYSTEM AS THE ONLY EQUIPMENT GROUNDING METHOD.
- PROVIDE TYPED PANEL DIRECTORY AT PROJECT COMPLETION FOR NEW PANELS AND EXISTING PANELS WITH CIRCUITS MODIFIED DURING PROJECT. USE OWNER'S CURRENT ROOM NUMBERS AND EQUIPMENT NAMES. PROVIDE UNIQUE CIRCUIT IDENTIFICATION PER NEC 408.4(A)
- 6. CONTRACTOR IS RESPONSIBLE FOR OPENINGS IN WALLS, FLOORS, CEILINGS, AND ROOFS THAT ARE REQUIRED TO COMPLETE THEIR SCOPE OF WORK. SEAL PENETRATIONS IN ACCORDANCE WITH THE RATING OF THE AFFECTED ASSEMBLY REFER TO ARCHITECTURAL CODE PLAN FOR RATED WALLS, FLOORS, AND CEILINGS.

#### **CODE NOTES - ELECTRICAL**

- PROVIDE ELECTRICAL INSTALLATION IN ACCORDANCE WITH STATE CODES.
- THE CURRENT ADOPTED EDITION OF THE ELECTRICAL CODE IS THE STANDARD FOR THE ELECTRICAL INSTALLATION. VERIFY WITH STATE OFFICIALS WHEN PERMITS ARE OBTAINED. NOTIFY DESIGN TEAM OF ANY DISCREPANCIES BETWEEN THE PROJECT MANUAL OR DRAWINGS AND THE GOVERNING CODE.
- INSTALLATION SHALL FOLLOW REQUIREMENTS OF THE ADAAG -AMERICANS WITH
- REFER TO PROJECT MANUAL AND PROJECT CODE REVIEW SHEET FOR LIST OF APPLICABLE
- PER NEC EVERY CIRCUIT AND CIRCUIT MODIFICATION SHALL BE LEGIBLY IDENTIFIED AS TO ITS CLEAR, EVIDENT AND SPECIFIC PURPOSE OR USE. CONTRACTOR TO PROVIDE FINAL

CIRCUIT IDENTIFICATION FOR ALL NEW AND MODIFIED CIRCUITS AT PROJECT COMPLETION.

## <u>DEVICE INSTALLATION AND MATERIALS - ELECTRICAL</u>

HEIGHT UNLESS OTHERWISE SPECIFICALLY INDICATED.

- PROVIDE NORMAL WIRING DEVICES AS <u>GRAY</u> UNLESS OTHERWISE NOTED.
- PROVIDE EMERGENCY WIRING DEVICES AS ORANGE UNLESS OTHERWISE NOTED. PROVIDE DEVICES COVER PLATES AS <u>STAINLESS STEEL</u>. MATCH WIRING DEVICES COLOR.
- PROVIDE GFCI TYPE RECEPTACLES AT ALL LOCATIONS REQUIRED BY THE NEC.
- INSTALL ABOVE COUNTERTOP RECEPTACLES +8" ABOVE COUNTERTOP OR AS OTHERWISE INDICATED.
- AT A COMMON COUNTERTOP, INSTALL ALL RECEPTACLES AND SWITCHES AT THE SAME

## FIRE DETECTION & ALARM NOTES

- INSTALL HEAT DETECTORS IN WORK AREAS DURING CONSTRUCTION TO MINIMIZE FALSE TRIPS. INSTALL PERMANENT DETECTORS IN LOCATIONS SHOWN UPON CONSTRUCTION COMPLETION.
- INSTALL MODULES AT ELEVATOR EQUIPMENT TO PROVIDE PRIMARY RECALL, SECONDARY RECALL, FIRE HAT AND SHUNT TRIP. PROVIDE PROGRAMMING AS NECESSARY FOR FUNCTION SYSTEM.
- FIRE ALARM ITEMS AND DEVICES ARE SHOWN IN SUGGESTED LOCATIONS. FINAL LAYOUTS, LOCATIONS, AND QUANTITIES SHALL BE IN ACCORDANCE WITH APPLICABLE CODES, MANUFACTURER'S RECOMMENDATIONS, AND EQUIPMENT LISTINGS. COORDINATE LOCATIONS WITH LIGHTING AND AIR HANDLING SYSTEMS.

ALL FIRE ALARM CIRCUITRY IN EXPOSED CEILING SPACES SHALL BE IN 3/4" CONDUIT PER

- SPECIFICATIONS. EXPOSED CABLING SHALL NOT BE ACCEPTED.
- ALL CONCEALED, ACCESSIBLE CEILING TILE LOCATIONS SHALL BE ALLOWED TO HAVE OPEN AIR CABLING INSTALLED. PROVIDE J-HOOKS, BRIDLE RINGS AND ASSOCIATED
- CABLE SUPPORTS TO KEEP INFRASTRUCTURE MANAGED AND OFF OF THE CEILING TILE. ELECTRICAL CONTRACTOR SHALL PROVIDE FIRESTOPPING AT ALL PENETRATIONS PER

## **COMMUNICATION NOTES**

SPECIFICATION.

- REUSE EXISTING POTS LINE IN THE ELEVATOR EQUIPMENT ROOM FOR THE ELEVATOR TELEPHONE. REVISE LOCATION AND EXTEND AS NECESSARY FOR NEW EQUIPMENT LOCATIONS.
- INSTALL NEW DATA CABLING FROM IDF LOCATIONS SHOWN ON PLANS TO EACH ELEVATOR EQUIPMENT ROOM FOR NEW 2-WAY COMMUNICATION SYSTEM.

1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21

## LIGHTING SYMBOLS

RECESSED LIGHT FIXTURE, LETTER INDICATES SWITCH LEG (TYPICAL), SHADING INDICATES EMERGENCY LIGHT (TYPICAL)

ROUND APERTURE RECESSED DOWNLIGHT FIXTURE. ARROW INDICATES WALLWASH

SURFACE MOUNTED STRIP FIXTURE

LINEAR PENDANT MOUNTED FIXTURE

INDUSTRIAL STRIP LIGHT FIXTURE

EMERGENCY LIGHT FIXTURE, WALL MOUNT, +96" OR AS NOTED

EMERGENCY LIGHT FIXTURE, CEILING MOUNT

WALL MOUNTED STRIP LIGHT FIXTURE.

EXIT SIGN, WALL MOUNT +96", SHADED AREAS INDICATE NUMBER OF FACES, ARROWS INDICATE SIGN ARROWS

EXIT SIGN, CEILING MOUNT, SHADED AREAS INDICATE NUMBER OF FACES, ARROWS INDICATE SIGN ARROWS

SINGLE POLE SWITCH, WALL MOUNT, LETTER INDICATES SWITCH LEG

THREE WAY SWITCH, WALL MOUNT, LETTER INDICATES SWITCH LEG

PILOT LIGHT SWITCH, WALL MOUNT, LETTER INDICATES SWITCH LEG

DIMMER SWITCH, WALL MOUNT, LETTER INDICATES SWITCH LEG

LIGHTING CONTROLS LOW VOLTAGE SWITCH, WALL MOUNT,

LETTER INDICATES SWITCH LEG, REFER TO LIGHTING CONTROLS SCHEDULE

EMERGENCY TRANSFER DEVICE

#### TECHNOLOGY RESPONSIBILITY MATRIX PROVISION RESPONSIBILITIES DEFINED | OFOI | OFCI | CFCI **COMMUNICATIONS - TELECOM SYSTEMS:** ROUGH-IN. PATHWAYS AND SLEEVES RACKS, FRAMES AND ENCLOSURES REUSE EXISTING COPPER HORIZONTAL CABLING DATA COMMUNICATIONS SWITCHES AND HUBS REUSE EXISTING **SECURITY - ACCESS CONTROL:** ROUGH-IN, PATHWAYS AND SLEEVES SECURITY MANAGEMENT SYSTEM - HEAD END COMPONENTS SECURITY MANAGEMENT SYSTEM - FIELD DEVICES SECURITY MANAGEMENT SYSTEM - ELECTRIFIED DOOR HARDWARE SECURITY MANAGEMENT SYSTEM - ALL CABLING **SECURITY - VIDEO SURVEILLANCE:** ROUGH-IN, PATHWAYS AND SLEEVES N/A N/A N/A N/A N/A N/A HEAD END EQUIPMENT AND COMPONENTS N/A N/A N/A **SAFETY - FIRE DETECTION AND ALARM:** ROUGH-IN, PATHWAYS AND SLEEVES INITIATING FIELD DEVICES (SMOKE, MANUAL PULL, MONITOR MODULES) NOTIFICATION APPLIANCES (HORNS, STROBES, SPEAKERS) MISCELLANEOUS DEVICES (RELAYS, TEST STATION, ANNUNCIATOR)

OFOI <u>o</u>wner <u>f</u>urnished & <u>o</u>wner <u>i</u>nstalled OFCI <u>o</u>wner <u>f</u>urnished & <u>c</u>ontractor <u>i</u>nstalled

ABBREVIATIONS:

NEMA 1 ENCLOSURE

CB CIRCUIT BREAKER IN PANEL

FAR FIRE ALARM SHUTDOWN RELAY

FDS FUSED DISCONNECT SWITCH, HEAVY

1. ALL FIXTURES SHALL BE U.L. OR SIMILARLY LISTED.

RET-UNV

3R NEMA 3R ENCLOSURE

MATRIX IS NOT INTENDED TO BE EXHAUSTIVE TO COVER ALL MATERIALS NECESSARY FOR SCOPE AND SHOULD ONLY BE USED TO QUICKLY IDENTIFY SYSTEMS AND RELATED INFRASTRUCTURE INSIDE AND OUTSIDE THE BID OF THIS PROJECT. ANY ITEMS FURNISHED OR INSTALLED BY THE BIDDING CONTRACTOR SHALL COVER ALL REQUIRED APPERTUNANCES NECESSARY FOR A COMPLETE SYSTEM. THIS SHALL INCLUDE BUT NOT BE LIMITED TO, EQUIPMENT, ACCESSORIES, TERMINATIONS, TERMINATION COMPONENTS, ALL FINAL

CORDAGE CONNECTIVITY, SOFTWARE, PROGRAMMING, AND THE LABOR TO INSTALL.

CFCI <u>c</u>ontractor <u>f</u>urnished & <u>c</u>ontractor <u>i</u>nstalled

CONDUIT UP, REFER TO TAG ON DRAWING FOR SIZE CONDUIT DOWN, REFER TO TAG ON DRAWING FOR SIZE JUNCTION BOX, CEILING OR FLOOR MOUNTED. JUNCTION BOX, WALL MOUNTED, ELEVATION AS NOTED. EQUIPMENT IDENTIFICATION TAG. REFER TO EQUIPMENT CONNECTION SCHEDULE OPP-OPPOSITE DETAIL DRAWING REFERENCE TAG, SIM-SIMILAR, TYP-TYPICAL, OPP-OPPOSITE SHEET REFERENCE SECTION CUT REFERENCE TAG. SIM-SIMILAR, TYP-TYPICAL, OPP-OPPOSITE

DRAWINGS REVISION. REFER TO TITLEBLOCK FOR REVISION NAME AND DATE

## POWER SYMBOLS

**GENERAL SYMBOLS** 

- SINGLE RECEPTACLE, WALL MOUNTED
- DUPLEX RECEPTACLE, WALL MOUNTED, TAMPER-RESISTANT

INTERIOR ELEVATION DRAWING REFERENCE TAG

- DUPLEX GFCI RECEPTACLE, TAMPER-RESISTANT, WALL MOUNT, PROTECTION INCLUDED IN DEVICE.
- DUPLEX GFCI WEATHER RESISTANT RECEPTACLE WITH WEATHER-PROOF IN-USE COVER, TAMPER-RESISTANT, WALL MOUNT
- EQUIPMENT CONNECTION, REFER TO EQUIPMENT CONNECTION SCHEDULE FOR CONNECTION TYPE. REFER TO PANEL SCHEDULES FOR GFCI PROTECTION WHERE REQUIRED
- MOTOR CONNECTION, REFER TO EQUIPMENT CONNECTION SCHEDULE FOR CONNECTION TYPE.
- EQUIPMENT CONNECTION, WALL MOUNT, REFER TO EQUIPMENT CONNECTION SCHEDULE FOR CONNECTION TYPE.

REFER TO PANEL SCHEDULES FOR GFCI PROTECTION WHERE REQUIRED

REFER TO PANEL SCHEDULES FOR GFCI PROTECTION WHERE REQUIRED

- SAFETY DISCONNECT SWITCH
- SURGE PROTECTIVE DEVICE
- PANELBOARD SURFACE MOUNTED
- PANELBOARD RECESSED IN WALL
- DISTRIBUTION PANELBOARD/SWITCHBOARD SURFACE MOUNTED AS NOTED.

TEMPERATURE CONTROLS SYMBOLS - DEVICES PROVIDED BY T.C.C

- THERMOSTAT JUNCTION BOX ROUGH-IN. WALL MOUNTED +48" OR AS NOTED. EXTEND 3/4" CONDUIT TO ACCESSIBLE LOCATION ABOVE CEILING.
- HUMIDISTAT JUNCTION BOX ROUGH-IN. WALL MOUNTED +48" OR AS NOTED. EXTEND 3/4" CONDUIT TO ACCESSIBLE LOCATION ABOVE CEILING.
- CARBON DIOXIDE SENSOR JUNCTION BOX ROUGH-IN. WALL MOUNTED +48" OR AS
- NOTED. EXTEND 3/4" CONDUIT TO ACCESSIBLE LOCATION ABOVE CEILING.
- TEMPERATURE SENSOR JUNCTION BOX ROUGH-IN. WALL MOUNTED +48" OR AS NOTED. EXTEND 3/4" CONDUIT TO ACCESSIBLE LOCATION ABOVE CEILING.

# **EQUIPMENT CONNECTION SCHEDULE**

INT INTEGRAL WITH EQUIPMENT FROM FACTORY 1. PROVIDE AND INSTALL ELECTRICAL SYSTEMS MEETING THE REQUIREMENTS OF THE PROVIDED MECHANICAL SYSTEMS. NFD NON-FUSED DISCONNECT SWITCH, HEAVY DUTY | 2. REVIEW EQUIPMENT SHOP DRAWINGS FOR COMPLIANCE AND COORDINATION WITH ELECTRICAL CONNECTIONS. NOTIFY ENGINEER IF CHANGES TO ELECTRICAL CONNECTIONS, WIRING, AND BREAKER REQUIREMENTS ARE NECESSARY.

3. PROVIDE HEAVY DUTY DISCONNECTS FOR THE INSTALLED ENVIRONMENT; NEMA 1 INDOORS, MINIMUM NEMA 3R

4. INCLUDE AUXILLIARY CONTACTS AND LOW-VOLTAGE WIRING TO AUXILLIARY EQUIPMENT THAT RUNS IN TANDEM WITH EQUIPMENT, (I.E. 120V DAMPERS WITH 480V MOTORS).

	ELECTRICAL CHARACTERISTICS						DI	SCONNECT		
							SIZE	NEMA	<b>FUSE SIZE</b>	
<u>TAG</u>	<u>VOLTAGE</u>	<b>PHASE</b>	<b>MOTOR HP</b>	<u>KW</u>	MCA	<b>TYPE</b>	(AMPS)	<b>RATING</b>	(AMPS)	<u>REMARKS</u>
SSI-1	208 V	1	-	-	1	NFD	30	1	-	-
SSO-1	208 V	1	_	-	19	NFD	30	3R	-	_

# LIGHTING FIXTURE SCHEDULE

2. INCLUDE A MINIMUM 1 YEAR WARRANTY FOR LIGHTING FIXTURES, WHERE NOT OTHERWISE SPECIFIED.

ST SHUNT TRIP

TS TOGGLE SWITCH

- 3. REFER TO ARCHITECTURAL DOCUMENTS FOR EXACT MOUNTING LOCATIONS, DETAILS, AND CONFIGURATIONS OF ALL LUMINAIRES. IF ARCHITECTURAL DRAWINGS DO NOT CLARIFY EXACT MOUNTING
- 4. VERIFY COMPATIBILITY OF LIGHT FIXTURES WITH ARCHITECTUREAL CEILING PLAN, MATERIALS, ADJACENT CONSTRUCTION, AND ADJACENT FINISHES PRIOR TO SHOP DRAWINGS SUBMITTAL. ADJUST FIXTURE TYPE CONSTRUCTION, FLANGE,..
- 5. CONTRACTOR IS RESPONSIBLE FOR ALL MISCELLANEOUS HARDWARE NECESSARY TO INSTALL AND SUPPORT THE LUMINAIRES. 6. AIM AND TARGET ADJUSTABLE INTERIOR AND EXTERIOR LIGHT FIXTURES UNDER THE OBSERVATION AND IN COMPLIANCE WITH RECOMMENDATIONS OF THE ARCHITECT. INCLUDE LABOR AND MATERIAL COSTS MADE NECESSARY BY THIS REQUIREMENT.

7. CONTRACTOR IS RESPONSIBLE FOR OBTAINING AND FILLING OUT ALL UTILITY REBATE FORMS FOR OWNER.

DESIGNED BY: ERIC HEYNEN

TYPE MANUFACTURER **DESCRIPTION APPROVED EQUALS** EMERGENCY LIGHT, WALL OR CEILING MOUNTED, THERMOPLASTIC HOUSING, 2 LED ADJUSTABLE SURE-LITES, LIGHTALARMS, LAMP HEADS, LEAD-CALCIUM MAINTENANCE FREE EM HUBBELL DUAL-LITE LZ-2-I-03L LED - 4000K 120 V AINOHTI I BATTERY, SELF-DIAGNOSTICS. MULTI-VOLT UTILITY STRIP FIXTURE 4', WET LISTED, GASKETED, WHITE CSVT L48 5000LM F1 LITHONIA LED - 4000K 120 V COOPER, CURRENT 35 VA MVOLT 40K 80CRI POLYCARB LENS, MULTI-VOLT REQUIRED CSVT L48 5000LM 5000 SAME AS F1 BUT WALL MOUNTED F2 LITHONIA LED - 4000K 120 V COOPER, CURRENT 35 VA MVOLT 40K 80CRI 4" RECESSED DOWNLIGHT, MULTI-VOLT, RETROFIT WHITE 1500 NU4E4-RD-SW-15LM-3 IN EXISTING DRYWALL CEILING, EXTEND 5K-90-60D-CL-WH-WH- CIRCUIT/SWITCHLEG FROM EXISTING LIGHTING IN F3 ALPHABET LED - 3500K 120 V 16 VA GOTHAM, PORTFOLIO

100 Court Ave., Suite 100 Des Moines, IA 50309 P: 515-309-0722 www.opnarchitects.com All reports, plans, specifications, computer files, field data notes and other documents and instruments prepared by OPN Architects, Inc. as instruments of service shall remain

> the property of OPN Architects, Inc., OPN Architects, Inc. shall retain all common law, statutory and other reserved rights, including the copyright thereto. © 2024 OPN Architects, Inc

IWD Elevator Modernization 1305 E. Walnut Street DES MOINES, IA 50319

Construction Manager DCI Group 220 SE 6TH Street - SUITE 200 DES MOINES, IA 50309

P. 612-441-4335

P. 515-244-5043 Elevator Consultant LERCH BATES 7625 GOLDEN TRIANGLE DRIVE, SUITE T EDEN PRAIRIE, MN 55344

Mechanical Engineer KCL ENGINEERING 300 4TH ST WEST DES MOINES, IA 50265 P. 515-724-7938

KCL ENGINEERING 300 4TH ST WEST DES MOINES, IA 50265 P. 515-724-7938

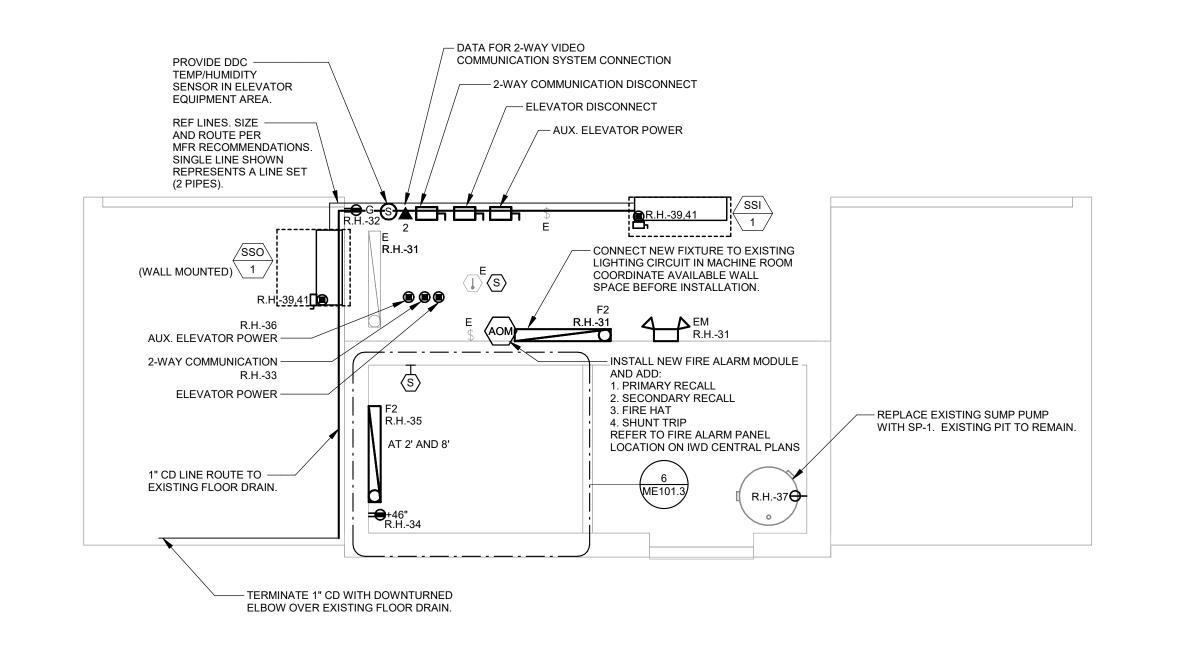
Electrical Engineer

OPN Project No. 24850000

Sheet Issue Date

03/14/2025 Sheet Name **ELECTRICAL/MECHANICAL** 

**GENERAL NOTES &** SYMBOLS IWD **ME000.3**  1 IWD EAST BASEMEN



— · — · — · — · — · — · —

SMOKE DETECTOR AT TOP OF SHAFT TO REMAIN ---- R.H.-35

3-WAY SWITCH AT LEVEL 3 LANDING —

#### SUMP PUMP SCHEDULE **REFERENCE MANUFACTURER HYDOMATIC** MODEL# SPD **SERVES ELEVATOR PIT CONFIGURATION** SINGLE **BASIN TYPE EXISTING CONCRETE BASIN SIZE (DIAM x HEIGHT) EXISTING 36x48** FT HEAD 25 **VOLTAGE/PH** 120/1

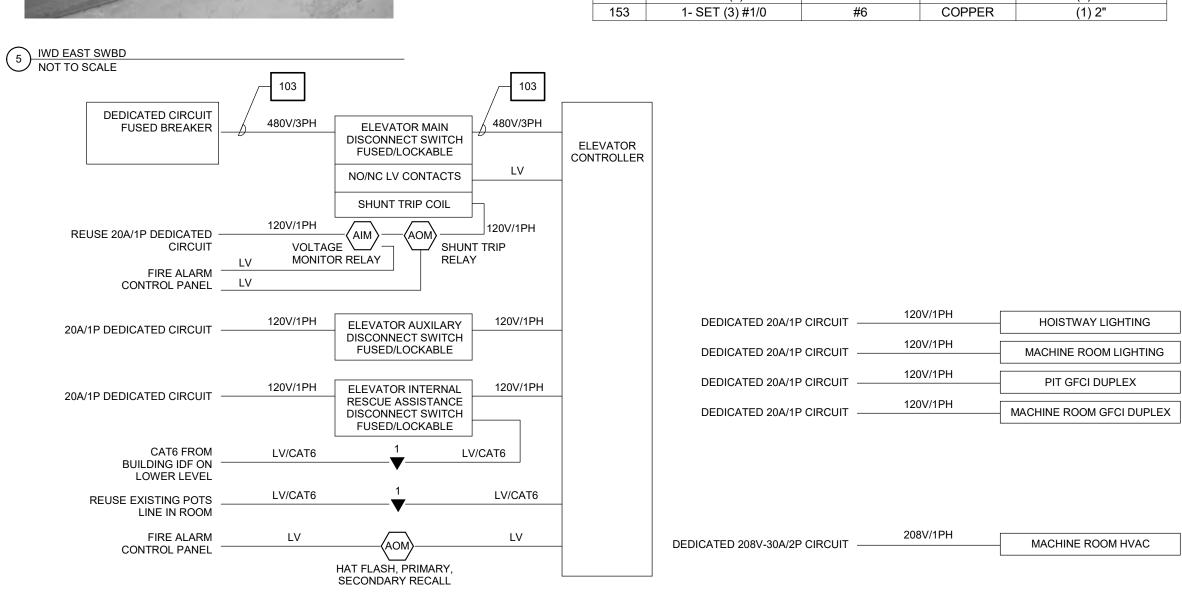
1. PROVIDE WITH WATERPROOF POWER CABLE, VERIFY LENGTH. MINIMUM 20 FT. 2. PROVIDE WITH INTEGRAL FLOAT SWITCH OR PIGGY BACK FLOAT.

1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 |



7 ELEVATOR SYSTEM DETAIL NOT TO SCALE

FEEDER SCHEDULE						
TAG	PHASE	GROUND	CONDUCTOR MATERIAL	CONDUIT		
103	1- SET (3) #3	#8	COPPER	(1) 1"		
450	4 OFT (0) 11410	110	CORRER	(4) 0"		



## **LIGHTING GENERAL NOTES**

- COORDINATE LOCATION/INSTALLATION OF MECHANICAL AND ELECTRICAL WORK WITH ALL OTHER TRADES. NO ASPECT OF A SYSTEM INSTALLATION OR ITS ROUGH-IN SHALL COMMENCE UNTIL PROPER AND TIMELY COORDINATION WITH ALL TRADES ASSOCIATED WITH THE INSTALLATION HAS TRANSPIRED. ITEMS TO BE COORDINATED SHALL INCLUDE BUT NOT BE LIMITED TO: BUILDING STRUCTURE, SHEET METAL, ALL PIPING SYSTEMS, LIGHT FIXTURES, CONDUITS, CABLE TRAYS, ETC. REFER TO ALL GENERAL, MECHANICAL, AND ELECTRICAL DRAWINGS AND SPECIFICATIONS FOR THIS PROJECT
- UNLESS NOTED OTHERWISE, CONNECT ALL EMERGENCY BATTERY FIXTURES WITH AN UN-SWITCHED LEG OF THE LIGHTING CIRCUIT THAT SERVES THE FIXTURES SPACE. MAINTAIN NORMAL SWITCHING SCHEME OF EMERGENCY FIXTURES UNDER NORMAL OPERATION.

#### **POWER GENERAL NOTES**

- COORDINATE LOCATION/INSTALLATION OF MECHANICAL AND ELECTRICAL WORK WITH ALL OTHER TRADES. NO ASPECT OF A SYSTEM INSTALLATION OR ITS ROUGH-IN SHALL COMMENCE UNTIL PROPER AND TIMELY COORDINATION WITH ALL TRADES ASSOCIATED WITH THE INSTALLATION HAS TRANSPIRED. ITEMS TO BE COORDINATED SHALL INCLUDE BUT NOT BE LIMITED TO: BUILDING STRUCTURE, SHEET METAL, PIPING SYSTEMS, LIGHT FIXTURES, CONDUITS, CABLE TRAYS, ETC. REFER TO ALL GENERAL. MECHANICAL, AND ELECTRICAL DRAWINGS AND SPECIFICATIONS FOR THIS PROJECT.
- COORDINATE ELECTRICAL REQUIREMENTS FOR MECHANICAL UNITS WITH MECHANICAL CONTRACTOR AND FINAL MECHANICAL SHOP DRAWINGS.

100 Court Ave., Suite 100

www.opnarchitects.com

rights, including the copyright thereto.

IWD Elevator Modernization

220 SE 6TH Street - SUITE 200

7625 GOLDEN TRIANGLE DRIVE, SUITE T

DES MOINES, IA 50309

EDEN PRAIRIE, MN 55344

1305 E. Walnut Street

Construction Manager

P. 515-244-5043

Elevator Consultant

LERCH BATES

P. 612-441-4335

Mechanical Engineer

300 4TH ST

Electrical Engineer

300 4TH ST

P. 515-724-7938

P. 515-724-7938

KCL ENGINEERING

KCL ENGINEERING

WEST DES MOINES, IA 50265

WEST DES MOINES, IA 50265

DCI Group

DES MOINES, IA 50319

© 2024 OPN Architects, Inc.

All reports, plans, specifications, computer files, field data,

notes and other documents and instruments prepared by

OPN Architects, Inc. as instruments of service shall remain

the property of OPN Architects, Inc., OPN Architects, Inc.

shall retain all common law, statutory and other reserved

Des Moines, IA 50309

P: 515-309-0722

PROVIDE PENETRATIONS REQUIRED FOR ROUTING RACEWAYS THROUGH THE BUILDING. COORDINATE FIRE RATED WALL PENETRATIONS AND PROVIDE CONDUIT SLEEVES AND FIRE STOPPING TO MAINTAIN RATING.

## **ELECTRICAL DEMOLITION NOTES**

- A. DEMOLITION DRAWINGS PRESENT LAYOUT OF EXISTING CONDITIONS AND MAJOR MECHANICAL/ELECTRICAL ITEMS. FIELD VERIFY EXISTING CONDITIONS AND BECOME FAMILIAR WITH EXISTING ELECTRICAL SYSTEM AND DEMOLITION SCOPE BEFORE WORK BEGINS.
- ADDITIONAL COMPONENTS MAY EXIST WHICH ARE NOT SHOWN. HANDLE SUCH ITEMS IN A MANNER SIMILAR TO THOSE ITEMS WHICH ARE SHOWN.
- REMOVE ELECTRICAL FACILITIES AND CLEAR THE AREA TO RECEIVE THE NEW WORK.

DISCONNECTED BRANCH CIRCUITS BEFORE

DEMOLITION. MAINTAIN CIRCUITS SERVING AREAS

- a. REMOVE ALL CONDUIT, WIRE, BOXES, ETC., AS REQUIRED BY WALL AND CEILING DEMOLITION. IDENTIFY THE LOCATION OR ITEMS SERVED FOR ALL
- BEYOND THE DEMOLITION AREA. REMOVE AND REINSTALL CEILING TILES AS REQUIRED TO REMOVE THE ELECTRICAL FACILITIES NOTED. REPLACE CEILINGS TILES DAMAGED DURING
- DEMOLITION. KEEP EXISTING SYSTEMS OPERATIONAL DURING ALL
- OBTAIN OWNER'S PERMISSION TO SHUT OFF SERVICES OR SYSTEMS WHICH MAY AFFECT OTHER AREAS BEYOND DEMOLITION AREA. INFORM OWNER AS TO THE REASON FOR AND THE DURATION OF THE SHUTDOWN.

PHASES OF CONSTRUCTION UNLESS NECCESARY FOR

- REPAIR AT CONTRACTORS EXPENSE ANY DAMAGED CONDUIT OR WIRE NOT IDENTIFIED FOR DEMOLITION.
- INSTALL BLANK COVERPLATES/COVERS OVER OPENINGS AT REMOVED DEVICE LOCATIONS.

DEMOLITION.

- ALL WIRING FOR REMODELED AREAS SHALL BE NEW UNLESS SPECIFICALLY NOTED OTHERWISE.
- PROTECT EXISTING DEVICES IDENTIFIED TO REMAIN OR BE RELOCATED. IF AN EXISTING DEVICE CANNOT BE REINSTALLED NOTIFY DESIGN TEAM DURING DEMOLITION. REPLACE FUNCTIONING ITEMS DAMAGED DURING DEMOLITION.
- REMOVED/DEMOLISHED EQUIPMENT REMAINS THE PROPERTY OF THE OWNER UNLESS OTHERWISE NOTED. VERIFY OWNERS SALVAGE SELECTIONS AND DISPOSE ALL OTHER MATERIALS.
- G. PLAN ABBREVIATIONS:
  - E EXISTING ITEM TO REMAIN ER - NEW LOCATION OF EXISTING ITEM
  - N NEW ITEM IN EXISTING LOCATION R - EXISTING ITEM TO BE REMOVED, PATCH AND/OR
  - RN REPLACE EXISTING WITH NEW RR - EXISTING ITEM TO BE REMOVED AND RELOCATED

**KEY NOTES:** 

6) ELEVATOR HOISTWAY LIGHTING. TYP.

**TOP OF HOISTWAY** 

THIRD FLOOR CEILING

**GROUND FLOOR CEILING** 

GROUND FLOOR

**ELEVATOR PIT** 

PROVIDE A TOTAL OF 7 F1/F2

FIXTURES FOR ENTIRETY OF SHAFT

THIRD FLOOR

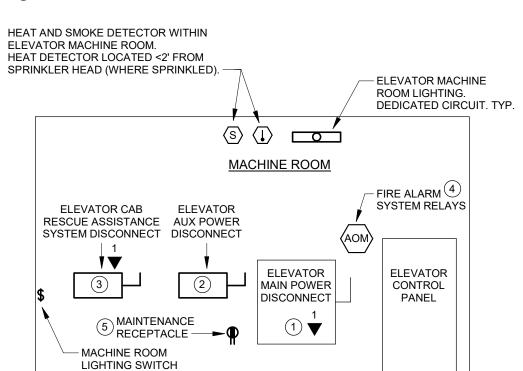
- (1) FUSED, LOCKABLE 100A MAIN DISCONNECT SWITCH AND DEDICATED CAT6 DATA TERMINATION TO SERVE ELEVATOR MAIN POWER.
- PROVIDED WITH NO/NC LOW VOLTAGE CONTACTS.
- FUSED, LOCKABLE 30A 120V/1POLE DISCONNECT SWITCH TO SERVE ELEVATOR AUXILIARY LIGHTING/VENTILATION,
- FUSED, LOCKABLE 30A 120V/1POLE DISCONNECT SWITCH AND DEDICATED CAT6 DATA TERMINATION TO SERVE ELEVATOR CAB
- INTERNAL RESCUE ASSISTANCE SYSTEM. FIRE ALARM SYSTEM HAT FLASH, PRIMARY RECALL, SECONDARY
- RECALL, SHUNT TRIP, AND SHUNT TRIP MONITOR RELAYS. DEDICATED CIRCUIT 120V DUPLEX GFCI MAINTENANCE RECEPTACLE WITHIN MACHINE ROOM SPACE ADJACENT TO
- ELEVATOR HOISTWAY LIGHTING POWERED BY DEDICATED CIRCUIT. FOR EACH CAR, PROVIDE LIGHT FIXTURE AT TOP OF HOISTWAY, PIT, AND AT EACH FLOOR. FIXTURES ABOVE PIT

SHARE A COMMON HOISTWAY, PROVIDE 4 WAY SWITCHES AND PROVIDE

SWITCH AT EACH CARS BOTTOM AND TOP FLOORS. SWITCH SHALL

- LOCATED TO ILLUMINATE TOP OF CAR AT EACH STOP, TYPICAL 10' ABOVE EACH LEVEL. PROVIDE HOISTWAY LIGHTING CONTROLS THREE WAY SWITCHES AT BOTTOM AND TOP FLOOR HOISTWAY ENTRIES. WHERE MULTIPLE CARS
- CONTROLS ALL LIGHTING IN HOISTWAY AND PIT

8 PROVIDE A TOTAL OF 7 F1/F2 LIGHTING FIXTURES FOR SHAFT.



TYPICAL ELEVATOR HOISTWAY ELEVATION

TYPICAL ELEVATOR MACHINE ROOM

OPN Project No. 24850000 Sheet Issue Date

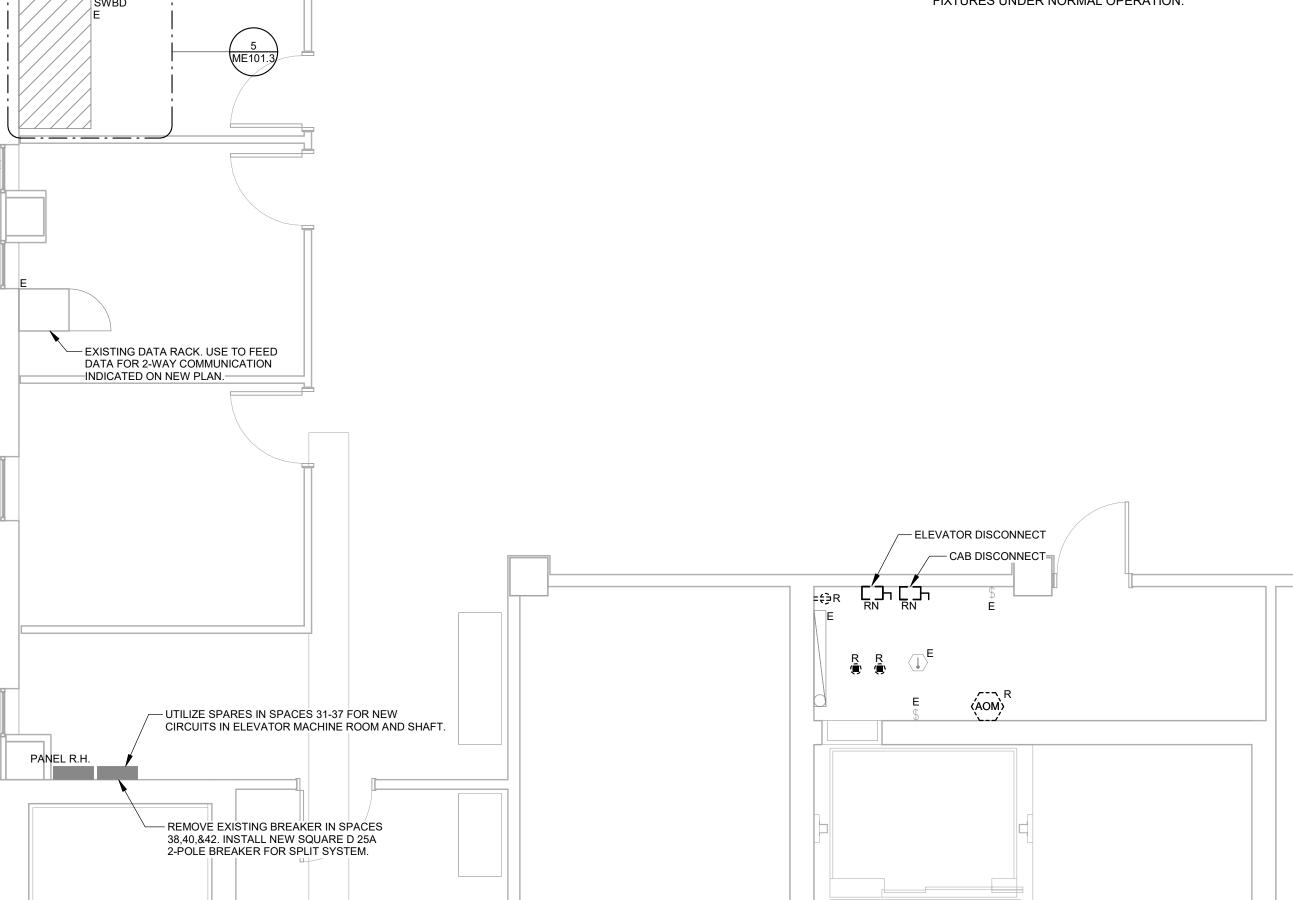
Key Plan

**BID SET** 03/14/2025 Sheet Name **ELECTRICAL/MECHANICAL** 

**IWD EAST** Sheet Number **ME101.3** 

West Des Moines, IA 50265 515-724-7938

3 IWD TOP OF HOISTWAY EAST 1/4" = 1'-0"



PANFL FAST

4 IWD EAST BASEMENT - DEMO

TYPICAL ELEVATOR SYSTEMS WIRING DIAGRAM

6 ELEVATOR SYSTEM DETAIL NOT TO SCALE

HEAT & SMOKE DETECTORS INSTALLED AT TOP OF HOISTWAY.

HEAT DETECTOR LOCATED <2' FROM SPRINKLER HEAD. —

ELEVATOR LOBBY SMOKE DECTOR.

DOOR. TYP FOR EVERY LOBBY. -

ELEVATOR LOBBY SMOKE DECTOR.

DOOR. TYP FOR EVERY LOBBY. -

<21' FROM CENTERLINE OF ELEVATOR

NEW LIGHTING FIXTURE IN EACH

LOBBY, GROUND FLOOR

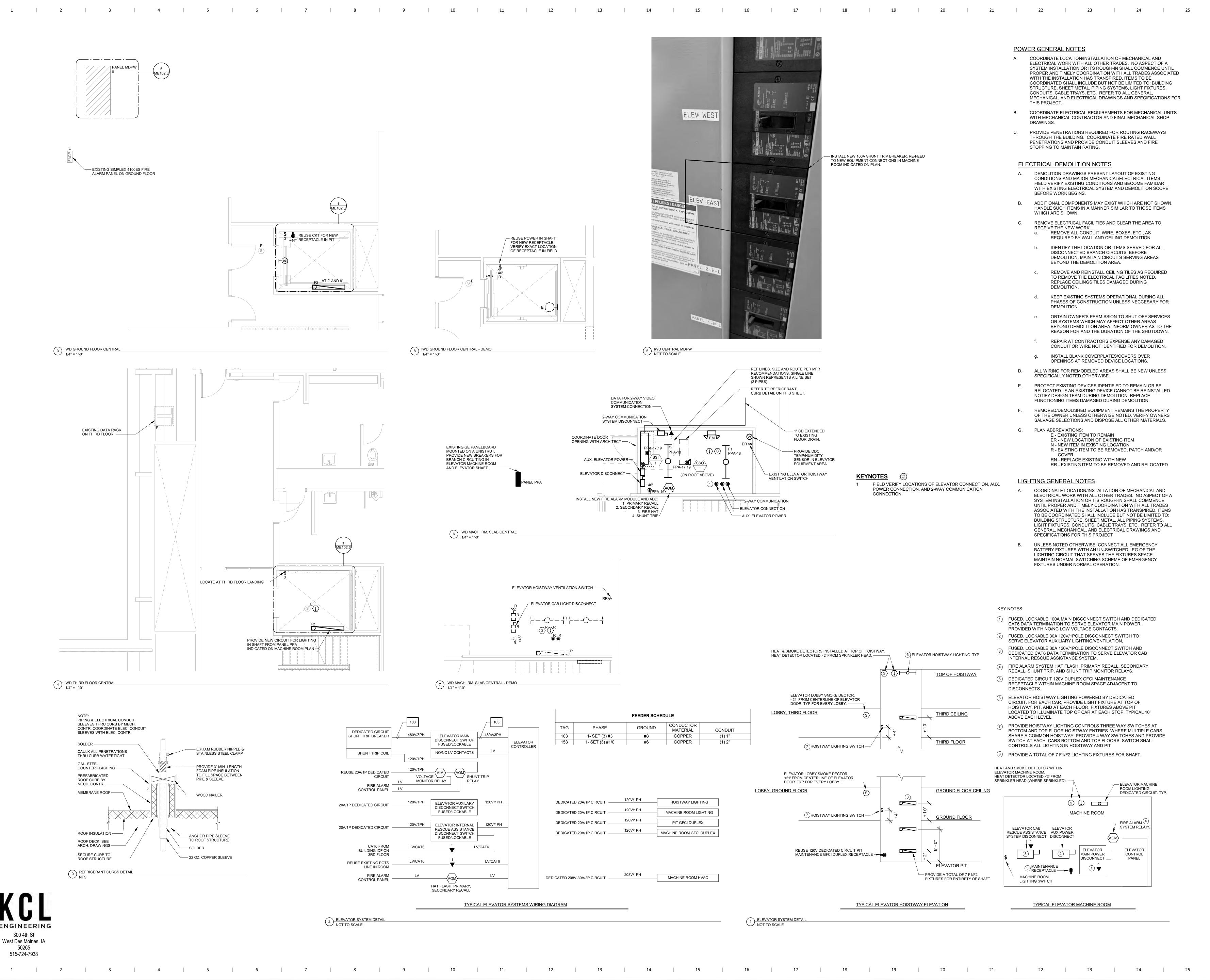
NEW LIGHTING FIXTURE IN EACH

<21' FROM CENTERLINE OF ELEVATOR

(7) HOISTWAY LIGHTING SWITCH —

 $\overline{(7)}$ HOISTWAY LIGHTING SWITCH -

INSTALL NEW 120V DEDICATED CIRCUIT FOR NEW PIT MAINTENANCE GFCI DUPLEX
RECEPTACLE WITH WEATHERPROOF



100 Court Ave., Suite 100 Des Moines, IA 50309 P: 515-309-0722

www.opnarchitects.com All reports, plans, specifications, computer files, field data, notes and other documents and instruments prepared by OPN Architects, Inc. as instruments of service shall remain the property of OPN Architects, Inc., OPN Architects, Inc. shall retain all common law, statutory and other reserved rights, including the copyright thereto.

© 2024 OPN Architects, Inc.

IWD Elevator Modernization 1305 E. Walnut Street DES MOINES, IA 50319

Construction Manager DCI Group 220 SE 6TH Street - SUITE 200 DES MOINES, IA 50309

P. 515-244-5043 Elevator Consultant LERCH BATES 7625 GOLDEN TRIANGLE DRIVE, SUITE T

EDEN PRAIRIE, MN 55344 P. 612-441-4335 Mechanical Engineer KCL ENGINEERING

300 4TH ST WEST DES MOINES, IA 50265 P. 515-724-7938 Electrical Engineer

KCL ENGINEERING 300 4TH ST WEST DES MOINES, IA 50265 P. 515-724-7938

Key Plan

OPN Project No. 24850000

Sheet Issue Date 03/14/2025

Sheet Name **ELECTRICAL/MECHANICAL IWD CENTRAL** Sheet Number

**ME102.3** 

## PROJECT LOCATION MAP



## SHEET INDEX

AG001.4	COVER SHEET
AG002.4	SITE LOGISTICS PLAN
AD100.4	DEMO FLOOR PLANS
AD200.4	EXISTING CONDITIONS
AD201.4	EXISTING CONDITIONS
A100.4	FLOOR PLANS

MECHANICAL / ELECTRICAL GENERAL NOTES & SYMBOLS ELECTRICAL / MECHANICAL GRIMES

## APPLICABLE CODE INFORMATION

THE PROJECT SHALL COMPLY WITH THE FOLLOWING CODES

2015 INTERNATIONAL BUILDING CODE AS ADOPTED BY IOWA ADMINISTRATIVE RULE 661-201 AND 661-301

2010 AMERICANS WITH DISABILITIES ACT AS ADOPTED BY IOWA ADMINISTRATIVE RULE 661-302

STATE MECHANICAL CODE AS ADOPTED BY THE DEPARTMENT OF PUBLIC HEALTH IOWA ADMINISTRATIVE RULE 641-61

STATE PLUMBING CODE AS ADOPTED BY THE DEPARTMENT OF PUBLIC HEALTH IOWA ADMINISTRATIVE RULE 641-25

2015 INTERNATIONAL FIRE CODE AS ADOPTED BY IOWA ADMINISTRATIVE RULE 661-201

STATE ELECTRICAL CODE AS ADOPTED BY THE STATE ELECTRICAL LICENSING BOARD IOWA ADMINISTRATIVE RULE 661-504

2015 INTERNATIONAL EXISTING BUILDING CODE AS ADOPTED BY IOWA ADMINISTRATIVE RULE 661-301 AND 661-350

IBC Chapter 2 - Use and Occupancy Classification

Primary Occupancy:

The use and occupancy classification of the existing building are unchanged.

IBC Chapter 5 - General Building Heights and Areas

Existing building use and size to remain unchanged.

IBC Chapter 6 - Types of Construction The type of construction for the existing building is unchanged.

IBC Chaper 7 - Fire and Smoke Protection Features New construction is limited and existing construction is not being modified. For construction purposes, shaft is considered to be 2 HR construction.

IBC Chapter 8 - Interior Finishes New construction is limited and matches existing interior finishes.

IBC Chapter 10 - Means of Egress All means of egress are being maintained in the existing building.

IBC Chapter 30 - Elevators and Conveying Systems Fire resistance rated construction is provided at the elevator machine room.

Smoke protection at hoistway openings is not required per IBC 3006.2.

The updates to the existing building conform to the requirements of the code for new construction and are to be made with the same materials of which the original building is constructed. The existing building is in compliance with the

requirements of this chapter. <u>lowa Administrative Code, Chapter 16, Division VII - Accessibility Requirements For Facilities Used by the General Public:</u>

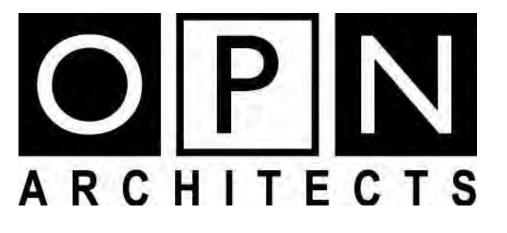
Accessibility within the building will be maintained.

<u>lowa Administrative Code, Chapter 72 - Conveyances Installed on or After January 1, 1975</u> Elevator pit sump pump is not required per 72.13(3).

NFPA-13 Chapter 8 - Section 8.15.5 Building is fully sprinklered. In accordance with NFPA 13-2013, sprinkler coverage will not be provided in the new elevator machine room nor at the bottom of the elevator pit (traction elevators). A sprinkler is not required a the top of the hoistway due to compliance with 8.15.5.6.

# STATE OF IOWA - GRIMES BUILDING ELEVATOR MOD.

400 E 14TH STREET, DES MOINES, IA 50319



100 Court Ave. Suite 100, Des Moines, IA 50309 P: 515-309-0722 F: 515-309-0725 www.opnarchitects.com

**OPN ARCHITECTS** 

100 COURT AVENUE - SUITE 100

DES MOINES, IA 50309

**ARCHITECT** 

CONSTRUCTION MANAGER

220 SE 6TH STREET - SUITE 200 DES MOINES, IA 50309

KCL ENGINEERING 300 4TH STREET WEST DES MOINES, IA 50265

MECHANICAL ENGINEER

**ELECTRICAL ENGINEER** KCL ENGINEERING 300 4TH STREET WEST DES MOINES, IA 50265 VERTICAL TRANSPORTATION LERCH BATES 706 SECOND AVENUE SOUTH MINNEAPOLIS, MN 55402



1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 23 | 24 | 25 |

1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 25 | 25 |

OVERALL SITE PLAN

OPN

ARCHITEC

100 Court Ave., Suite 100
Des Moines, IA 50309
P: 515-309-0722

www.opnarchitects.com

All reports, plans, specifications, computer files, field data, notes and other documents and instruments prepared by OPN Architects, Inc. as instruments of service shall remain the property of OPN Architects, Inc. OPN Architects, Inc. shall retain all common law, statutory and other reserved rights, including the copyright thereto.

© 2025 OPN Architects, Inc.

Owner

STATE OF IOWA

109 SE 13TH STREET

DES MOINES, IA 50319

DES MOINES, IA 50319

Project

GRIMES BUILDING ELEVATOR MOD.

400 E 14TH STREET

CONSTRUCTION MANAGER

DCI GROUP

220 SE 6TH STREET, SUITE 200

DES MOINES, IA 50309

ELEVATOR CONSULTANT

LERCH BATES

7625 GOLDEN TRIANGLE DRIVE,
SUITE T
EDEN PRAIRIE, MN 55344

Mechanical Engineer

KCL ENGINEERING

300 4TH STREET

WEST DES MOINES, IA 50317

KCL ENGINEERING
300 4TH STREET
WEST DES MOINES, IA 50317

Koy Blan

Revision Description

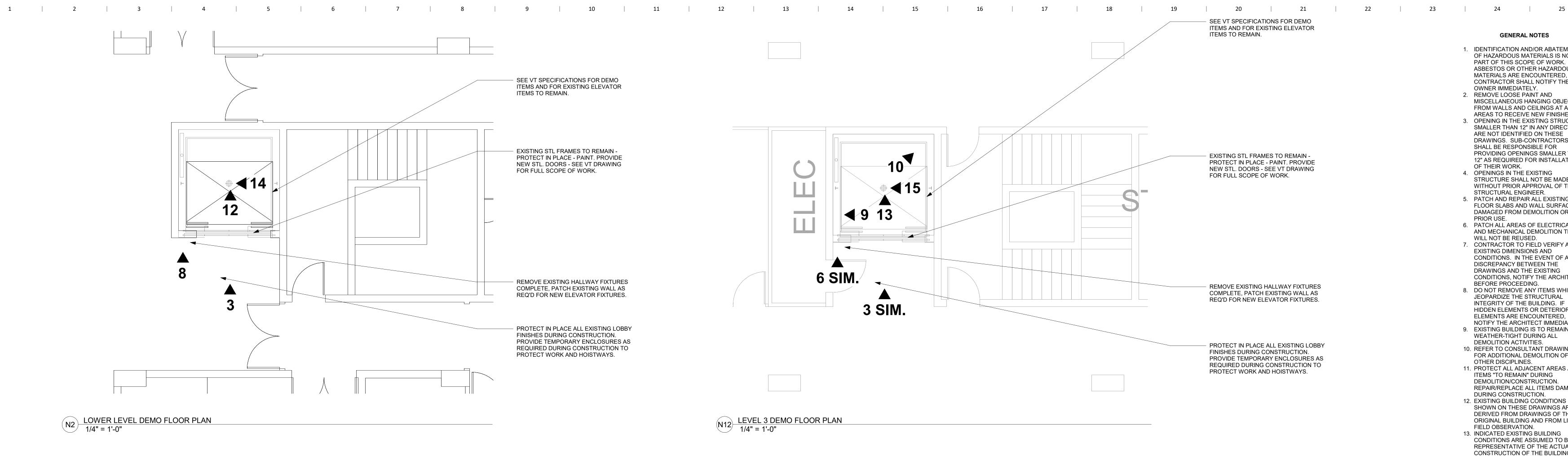
**24850000** 

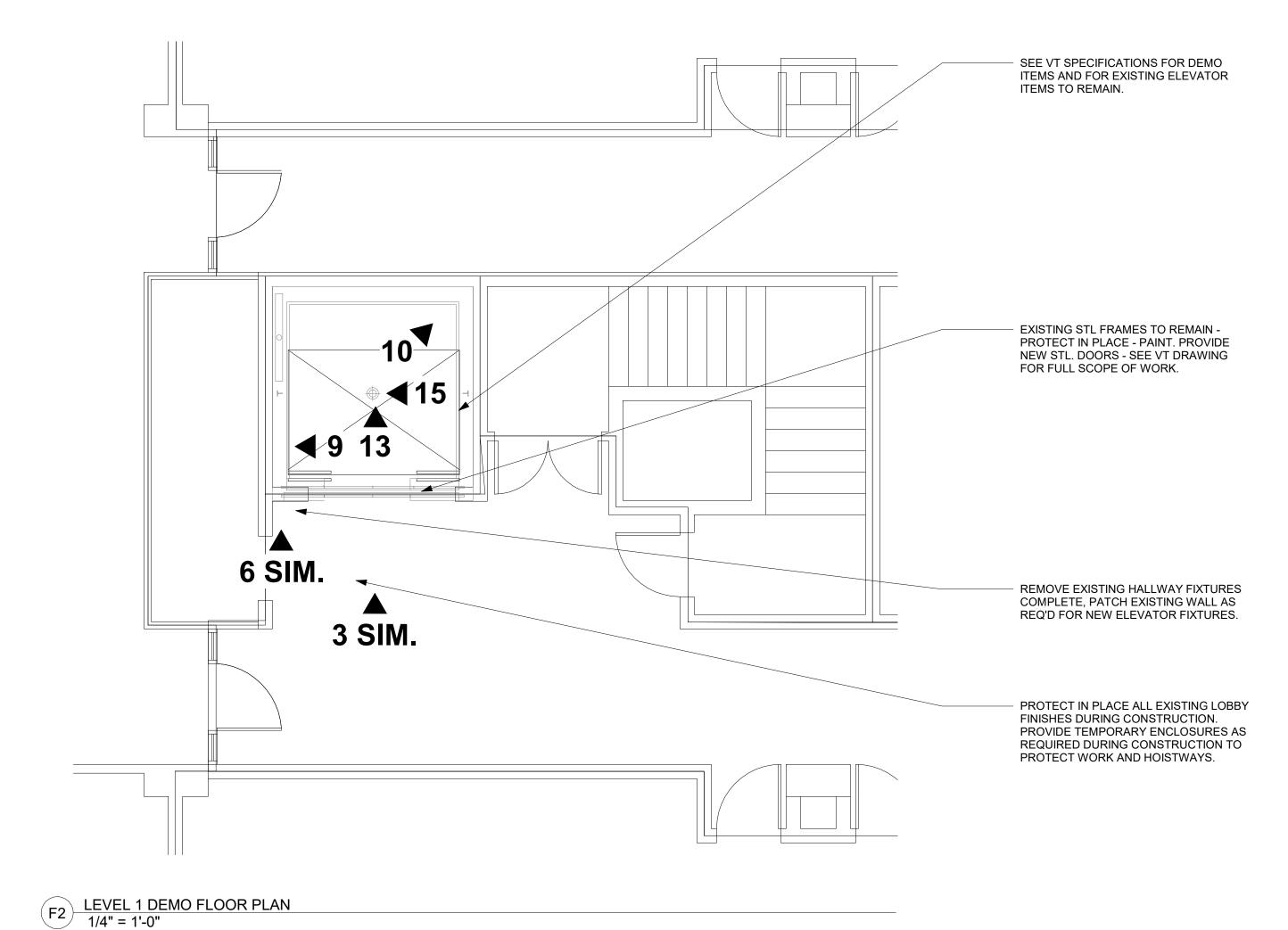
D SET 03/1

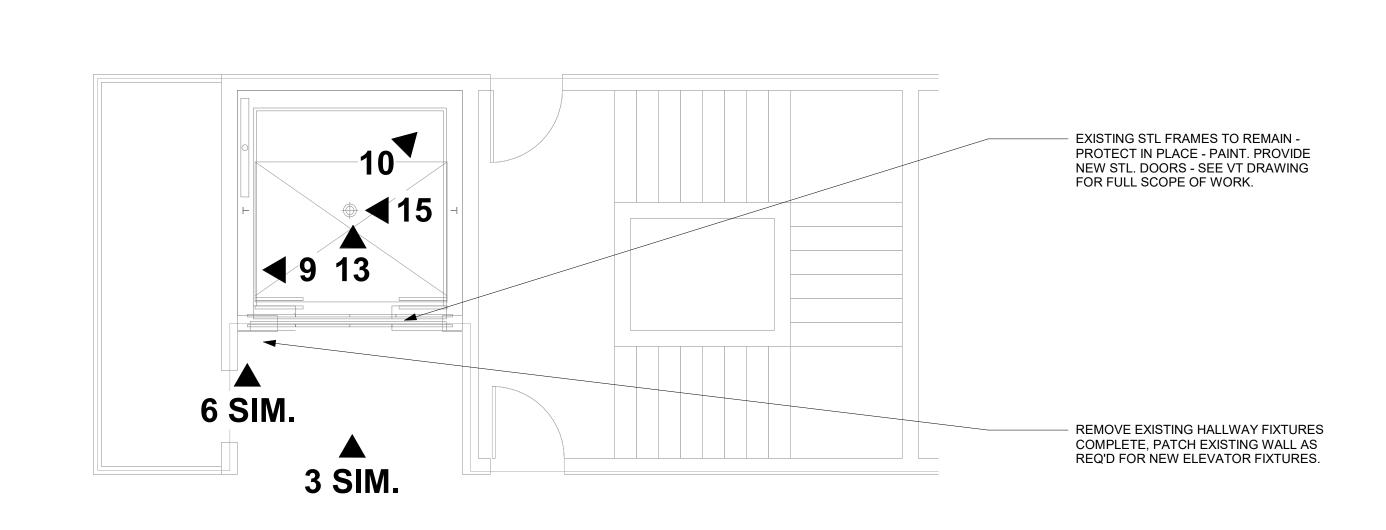
SITE LOGISTICS PLAN

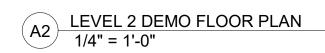
Sheet Number

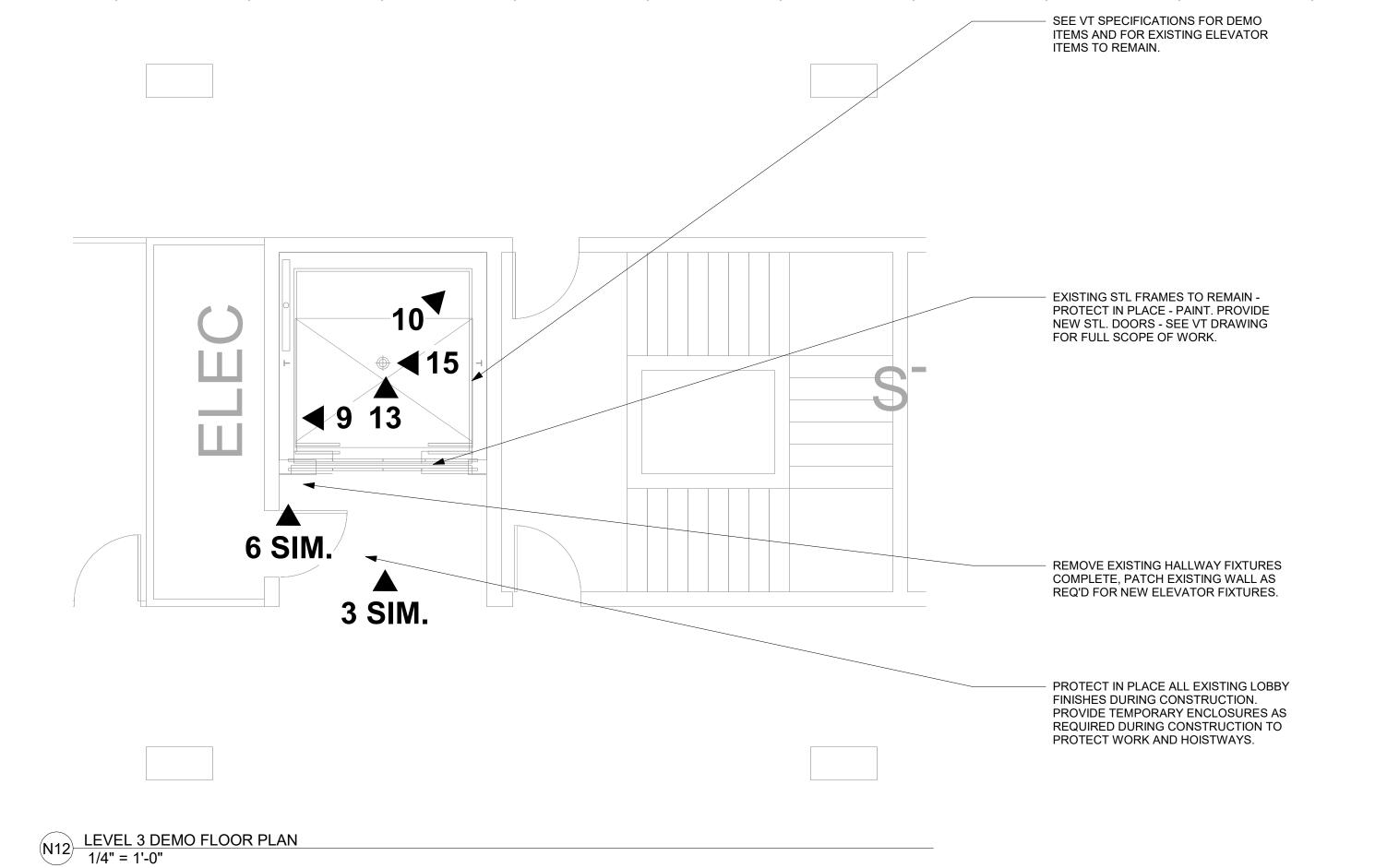
AG002.4

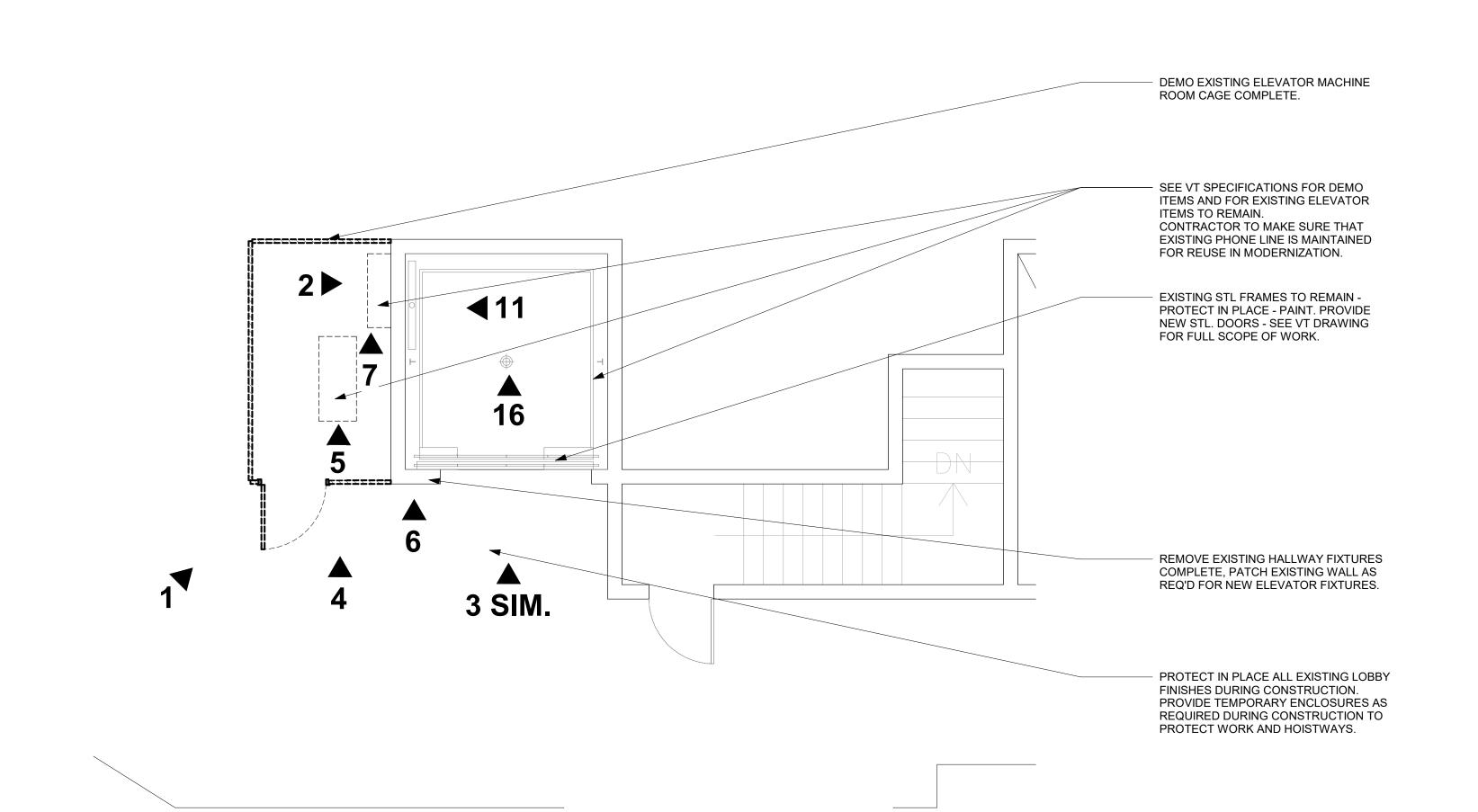












F12 PENTHOUSE DEMO FLOOR PLAN
1/4" = 1'-0"

1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 25 | 25 |

## **GENERAL NOTES**

1. IDENTIFICATION AND/OR ABATEMENT OF HAZARDOUS MATERIALS IS NOT PART OF THIS SCOPE OF WORK. IF

OF THEIR WORK.

PRIOR USE.

- ASBESTOS OR OTHER HAZARDOUS MATERIALS ARE ENCOUNTERED, THE CONTRACTOR SHALL NOTIFY THE OWNER IMMEDIATELY. REMOVE LOOSE PAINT AND
- MISCELLANEOUS HANGING OBJECTS FROM WALLS AND CEILINGS AT ALL AREAS TO RECEIVE NEW FINISHES. 3. OPENING IN THE EXISTING STRUCTURE SMALLER THAN 12" IN ANY DIRECTION ARE NOT IDENTIFIED ON THESE
- DRAWINGS. SUB-CONTRACTORS SHALL BE RESPONSIBLE FOR PROVIDING OPENINGS SMALLER THAN 12" AS REQUIRED FOR INSTALLATION
- 4. OPENINGS IN THE EXISTING DES MOINES, IA 50319 STRUCTURE SHALL NOT BE MADE WITHOUT PRIOR APPROVAL OF THE STRUCTURAL ENGINEER. PATCH AND REPAIR ALL EXISTING FLOOR SLABS AND WALL SURFACES DAMAGED FROM DEMOLITION OR
- 400 E 14TH STREET 6. PATCH ALL AREAS OF ELECTRICAL DES MOINES, IA 50319 AND MECHANICAL DEMOLITION THAT WILL NOT BE REUSED. CONTRACTOR TO FIELD VERIFY ALL
- EXISTING DIMENSIONS AND CONDITIONS. IN THE EVENT OF A CONSTRUCTION MANAGER DISCREPANCY BETWEEN THE DCI GROUP DRAWINGS AND THE EXISTING CONDITIONS, NOTIFY THE ARCHITECT BEFORE PROCEEDING. 8. DO NOT REMOVE ANY ITEMS WHICH
- JEOPARDIZE THE STRUCTURAL INTEGRITY OF THE BUILDING. IF HIDDEN ELEMENTS OR DETERIORATED ELEMENTS ARE ENCOUNTERED, NOTIFY THE ARCHITECT IMMEDIATELY. 9. EXISTING BUILDING IS TO REMAIN WEATHER-TIGHT DURING ALL
- DEMOLITION ACTIVITIES. 10. REFER TO CONSULTANT DRAWINGS FOR ADDITIONAL DEMOLITION OF OTHER DISCIPLINES.
- 11. PROTECT ALL ADJACENT AREAS AND ITEMS "TO REMAIN" DURING DEMOLITION/CONSTRUCTION. REPAIR/REPLACE ALL ITEMS DAMAGED DURING CONSTRUCTION. 12. EXISTING BUILDING CONDITIONS
- SHOWN ON THESE DRAWINGS ARE DERIVED FROM DRAWINGS OF THE ORIGINAL BUILDING AND FROM LIMITED FIELD OBSERVATION. 13. INDICATED EXISTING BUILDING CONDITIONS ARE ASSUMED TO BE REPRESENTATIVE OF THE ACTUAL CONSTRUCTION OF THE BUILDING.
- LOCAL CONDITIONS MAY VARY. 14. THE CONTRACTOR SHALL PROVIDE AND MAINTAIN ADDITIONAL MEANS OF EGRESS AS NEEDED AS A RESULT OF CONSTRUCTION SEQUENCING AND/OR REGULATORY REQUIREMENTS.

100 Court Ave., Suite 100

Des Moines, IA 50309 P: 515-309-0722 www.opnarchitects.com All reports, plans, specifications, computer files, field data, notes and other documents and instruments prepared by OPN Architects, Inc. as instruments of service shall remain the property of OPN Architects, Inc. OPN Architects, Inc. shall retain all common law, statutory and other reserved

rights, including the copyright thereto. © 2025 OPN Architects, Inc. STATE OF IOWA 109 SE 13TH STREET

GRIMES BUILDING ELEVATOR MOD.

220 SE 6TH STREET, SUITE 200 DES MOINES, IA 50309 ELEVATOR CONSULTANT

LERCH BATES

7625 GOLDEN TRIANGLE DRIVE, EDEN PRAIRIE, MN 55344 Mechanical Engineer KCL ENGINEERING

300 4TH STREET WEST DES MOINES, IA 50317 Electrical Engineer KCL ENGINEERING

WEST DES MOINES, IA 50317

300 4TH STREET

OPN Project No. 24850000

Key Plan

Sheet Issue Date

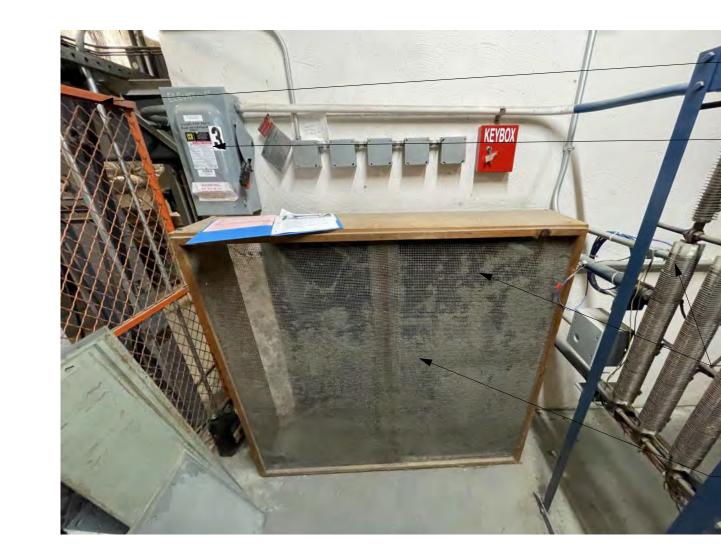
Sheet Name **DEMO FLOOR PLANS** 

Sheet Number

**AD100.4** 

DEMO EXISTING ELEVATOR EQUIPMENT -SEE VT SPECIFICATIONS FOR FULL SCOPE OF WORK.

REMOVE AND PROVIDE NEW ELEVATOR MACHINE ROOM CAGE COMPLETE WITH NEW ENCLOSURE CAGE WITH LID.



REMOVE AND PROVIDE NEW ELEVATOR MACHINE ROOM CAGE COMPLETE WITH NEW ENCLOSURE CAGE WITH LID.

ELECTRICAL DISCONNECT - SEE ELECTRICAL.

1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 25 |



ELEVATOR CONTRACTOR RESPONSIBLE FOR REMOVAL AND NEW SHAFT OPENING FENCING AS REQUIRED TO MEET CODE REQUIREMENTS.



 SEE VT SPECIFICATIONS FOR DEMO ITEMS AND FOR EXISTING ELEVATOR ITEMS TO REMAIN.

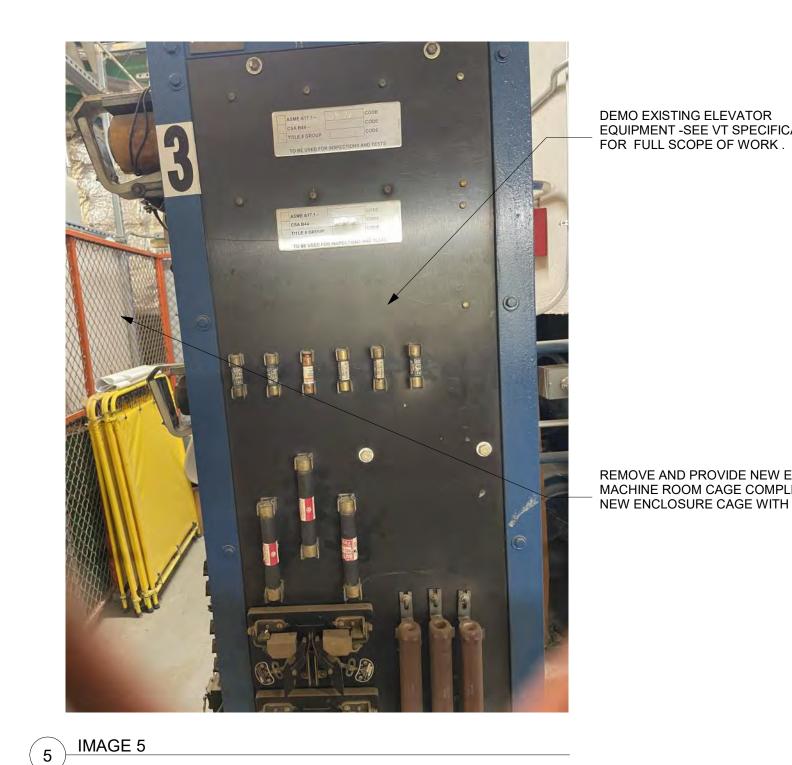
 EXISTING STL FRAMES TO REMAIN -PROTECT IN PLACE - PAINT. PROVIDE NEW STL. DOORS - SEE VT DRAWING FOR FULL SCOPE OF WORK.

REMOVE EXISTING HALLWAY FIXTURES COMPLETE, PROVIDE NEW SURFACE MOUNTED FIXTURES. PATCH EXISTING WALL AS REQ'D OR PROVIDE NEW ELEVATOR FIXTURES IN SIMILAR SIZE TO COVER EXISTING.

PROTECT IN PLACE ALL EXISTING LOBBY FINISHES DURING CONSTRUCTION. PROVIDE TEMPORARY ENCLOSURES AS REQUIRED DURING CONSTRUCTION TO PROTECT WORK AND HOISTWAYS.

DEMO EXISTING ELEVATOR EQUIPMENT -SEE VT SPECIFICATIONS FOR FULL SCOPE OF WORK

REMOVE AND PROVIDE NEW ELEVATOR MACHINE ROOM CAGE COMPLETE WITH NEW ENCLOSURE CAGE WITH LID.



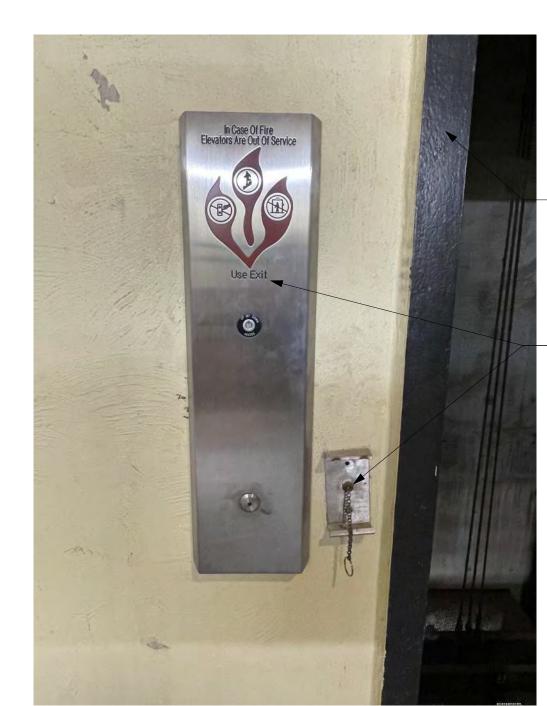
2 IMAGE 2

REMOVE AND PROVIDE NEW ELEVATOR MACHINE ROOM CAGE COMPLETE WITH NEW ENCLOSURE CAGE WITH LID.

1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 25 |

DEMO EXISTING ELEVATOR

EQUIPMENT -SEE VT SPECIFICATIONS



3 IMAGE 3

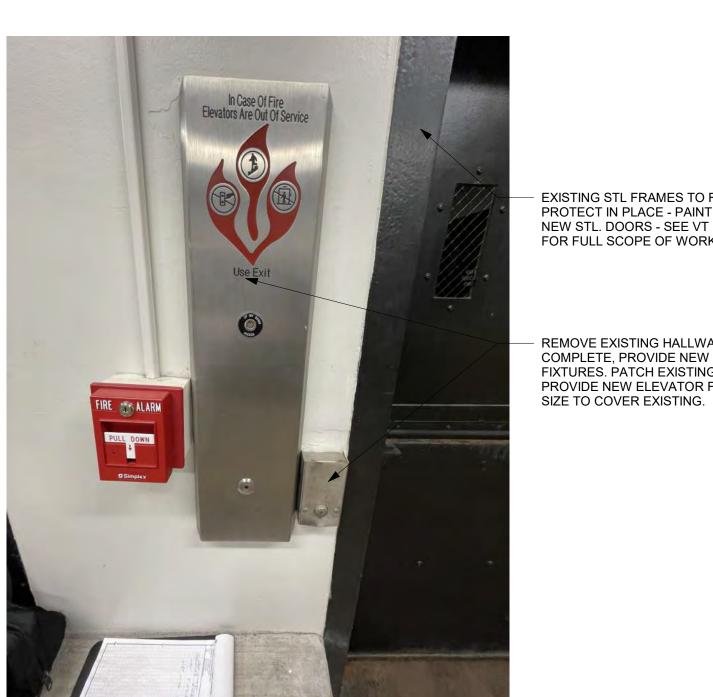
EXISTING STL FRAMES TO REMAIN -PROTECT IN PLACE - PAINT. PROVIDE NEW STL. DOORS - SEE VT DRAWING FOR FULL SCOPE OF WORK.

REMOVE EXISTING HALLWAY FIXTURES COMPLETE, PROVIDE NEW SURFACE MOUNTED FIXTURES. PATCH EXISTING WALL AS REQ'D OR PROVIDE NEW ELEVATOR FIXTURES IN SIMILAR SIZE TO COVER EXISTING.



DEMO EXISTING ELEVATOR EQUIPMENT -SEE VT SPECIFICATIONS FOR FULL SCOPE OF WORK .

- EXISTING REMOTE RESET



- EXISTING STL FRAMES TO REMAIN -PROTECT IN PLACE - PAINT. PROVIDE NEW STL. DOORS - SEE VT DRAWING FOR FULL SCOPE OF WORK.

- REMOVE EXISTING HALLWAY FIXTURES COMPLETE, PROVIDE NEW SURFACE MOUNTED FIXTURES. PATCH EXISTING WALL AS REQ'D OR PROVIDE NEW ELEVATOR FIXTURES IN SIMILAR

24850000

Key Plan

100 Court Ave., Suite 100 Des Moines, IA 50309 P: 515-309-0722

www.opnarchitects.com

rights, including the copyright thereto.

© 2025 OPN Architects, Inc.

STATE OF IOWA 109 SE 13TH STREET

DES MOINES, IA 50319

400 E 14TH STREET DES MOINES, IA 50319

CONSTRUCTION MANAGER

DES MOINES, IA 50309

220 SE 6TH STREET, SUITE 200

7625 GOLDEN TRIANGLE DRIVE,

EDEN PRAIRIE, MN 55344

WEST DES MOINES, IA 50317

WEST DES MOINES, IA 50317

DCI GROUP

ELEVATOR CONSULTANT

LERCH BATES

Mechanical Engineer

KCL ENGINEERING

KCL ENGINEERING 300 4TH STREET

300 4TH STREET

Electrical Engineer

SUITE T

Owner

All reports, plans, specifications, computer files, field data, notes and other documents and instruments prepared by OPN Architects, Inc. as instruments of service shall remain the property of OPN Architects, Inc. OPN Architects, Inc. shall retain all common law, statutory and other reserved

GRIMES BUILDING ELEVATOR MOD.

Sheet Name **EXISTING CONDITIONS** 

AD200.4

- EXISTING PERFORATED METAL CEILING PANELS TO REMAIN - PAINT - TYPICAL.

> EXISTING RAISED PERIMETER TRIM TO REMAIN - PAINT - TYPICAL.

REMOVE ALL SIGNAGE COMPLETE. PROVIDE NEW CODE REQUIRED

SIGNAGE ONLY.

PROVIDE WINDOW IN COP PANEL FOR ELEVATOR CERTIFICATE.

 REMOVE, SALVAGE AND REINSTALL INTERCOM SYSTEM. MAINTAIN EXISTING WIRING FOR REINSTALLATION.

REMOVE, SALVAGE AND REINSTALL CARD ACCESS CONTROL. PROVIDE PATHWAYS AS REQUIRED FOR REINSTALLATION IN NEW ELEVATOR CAB. REPLACE CONTROL PANEL AND PROVIDE NEW. MAINTAIN EXISTING FLOOR DESIGNATIONS.

- NEW ST. STL. CHECKER PLATE PANELS TO BE INSTALLED OVER EXISTING SHELL WITHIN THE EXISTING PERIMETER TRIM. FLUSH MOUNT WITH CONSTRUCTION ADHESIVE AND COUNTERSUNK ATTACHMENTS AT MAX. 2' O.C. EACH DIRECTION.

9 IMAGE 9



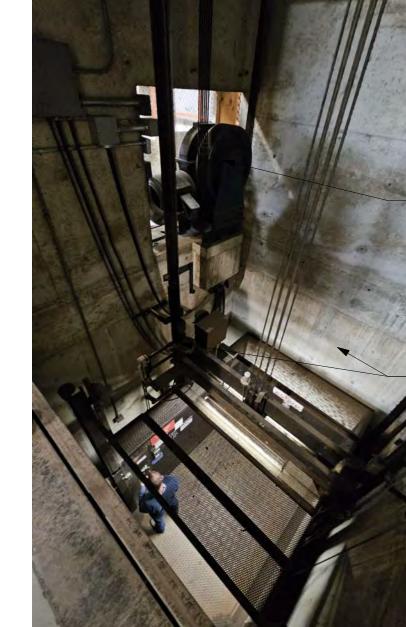
1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 25 | 25 |

➤ EXISTING PERFORATED METAL CEILING PANELS TO REMAIN - PAINT - TYPICAL.

 EXISTING RAISED PERIMETER TRIM TO REMAIN - PAINT - TYPICAL.

- NEW ST. STL. CHECKER PLATE PANELS TO BE INSTALLED OVER EXISTING SHELL WITHIN THE EXISTING PERIMETER TRIM. FLUSH MOUNT WITH CONSTRUCTION ADHESIVE AND COUNTERSUNK ATTACHMENTS AT MAX. 2' O.C. EACH DIRECTION.

> > EXISTING PERFORATED METAL CEILING PANELS TO REMAIN - PAINT - TYPICAL.



EXISTING SHAFT AND RAILS TO

FOR FULL SCOPE.

REMAIN - SEE VT SPECIFICATIONS

DEMO EXISTING ELEVATOR

FOR FULL SCOPE OF WORK.

QUIPMENT -SEE VT SPECIFICATIONS

Mechanical Engineer KCL ENGINEERING 300 4TH STREET

100 Court Ave., Suite 100 Des Moines, IA 50309

www.opnarchitects.com

rights, including the copyright thereto.

All reports, plans, specifications, computer files, field data,

notes and other documents and instruments prepared by OPN Architects, Inc. as instruments of service shall remain the property of OPN Architects, Inc. OPN Architects, Inc. shall retain all common law, statutory and other reserved

GRIMES BUILDING ELEVATOR MOD.

P: 515-309-0722

© 2025 OPN Architects, Inc.

STATE OF IOWA

109 SE 13TH STREET DES MOINES, IA 50319

400 E 14TH STREET

CONSTRUCTION MANAGER

DES MOINES, IA 50309

220 SE 6TH STREET, SUITE 200

7625 GOLDEN TRIANGLE DRIVE,

EDEN PRAIRIE, MN 55344

DCI GROUP

ELEVATOR CONSULTANT

LERCH BATES

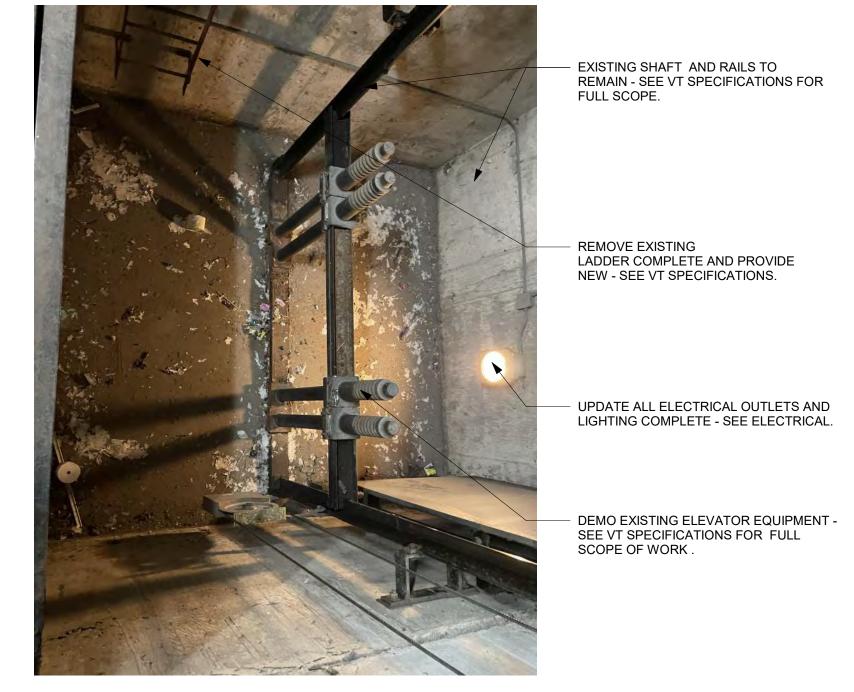
SUITE T

DES MOINES, IA 50319

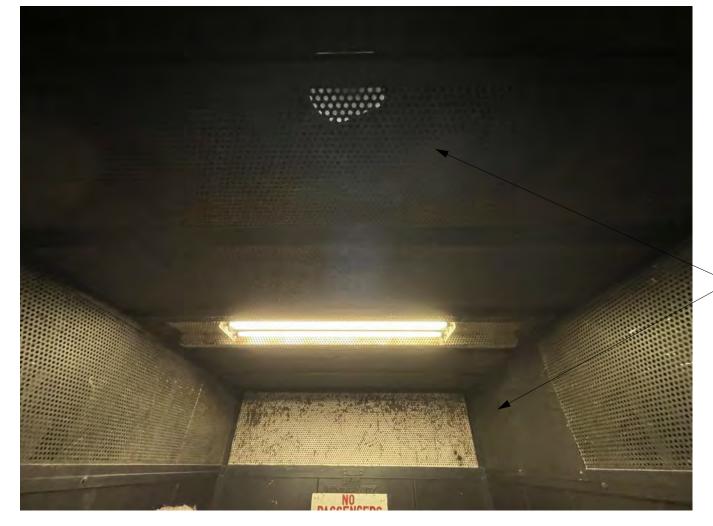
Owner

Electrical Engineer KCL ENGINEERING 300 4TH STREET WEST DES MOINES, IA 50317

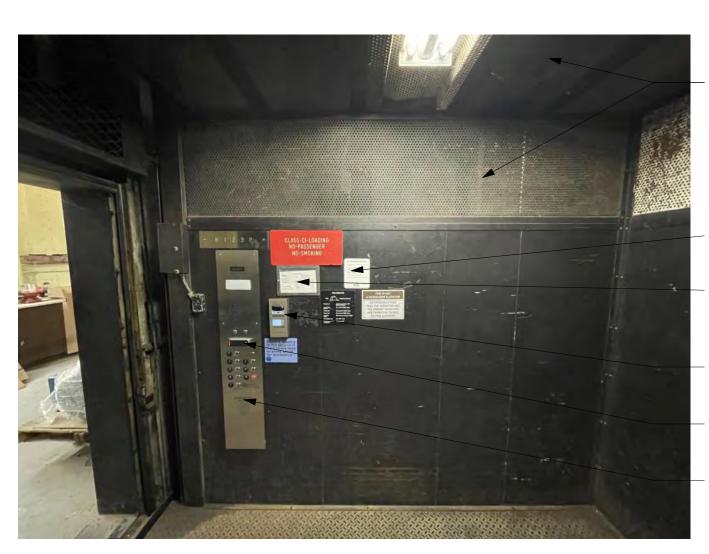
WEST DES MOINES, IA 50317



(12) IMAGE 12



- EXISTING SHAFT AND RAILS TO REMAIN - SEE VT SPECIFICATIONS FOR FULL SCOPE. REMOVE EXISTING LADDER COMPLETE AND PROVIDE NEW - SEE VT SPECIFICATIONS. UPDATE ALL ELECTRICAL OUTLETS AND LIGHTING COMPLETE - SEE ELECTRICAL. DEMO EXISTING ELEVATOR EQUIPMENT -SEE VT SPECIFICATIONS FOR FULL SCOPE OF WORK .



1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 25 |

- EXISTING PERFORATED METAL CEILING AND WALL PANELS TO REMAIN - PAINT - TYPICAL.

- REMOVE ALL SIGNAGE COMPLETE. PROVIDE NEW CODE REQUIRED SIGNAGE ONLY. PROVIDE WINDOW IN COP PANEL FOR ELEVATOR CERTIFICATE.

REMOVE, SALVAGE AND REINSTALL INTERCOM SYSTEM. MAINTAIN EXISTING WIRING FOR REINSTALLATION. REMOVE, SALVAGE AND REINSTALL CARD ACCESS CONTROL. PROVIDE PATHWAYS AS REQUIRED FOR

REINSTALLATION IN NEW ELEVATOR CAB. REPLACE CONTROL PANEL AND PROVIDE NEW.



PROVIDE GALVANIZED PAN CLOSURE, FILL VOID ABOVE WITH INSULATION ABOVE TO HEIGHT OF ROOF CAP. AT ROOF, REMOVE VENT COVER AND PROVIDE WEATHER BARRIER AND GALVANIZED SHEET METAL COVERING WITH EXPOSED FASTENERS.

EXISTING SHAFT AND RAILS TO REMAIN - SEE VT SPECIFICATIONS

Sheet Issue Date

OPN Project No.

24850000

Key Plan

Sheet Name **EXISTING CONDITIONS** 

Sheet Number

AD201.4

03/14/2025

EXPOSE OPEN SHAFT.

EXISTING FIXTURES TO BE REMOVED

AND REPLACED. NEW FIXTURES TO

COMPLETELY. SURFACE MOUNTED

COVER EXISTING OPENINGS

FIXTURES ARE ACCEPTABLE.

A2 LEVEL 2 FLOOR PLAN
1/4" = 1'-0"

NEW ALUM. CHECKER PLATE PANELS TO

BE INSTALLED OVER EXISTING SHELL

FLUSH MOUNT WITH CONSTRUCTION

ATTACHMENTS AT MAX. 2' O.C. EACH

ADHESIVE AND COUNTERSUNK

ALUM. CHECKER PLATE

FLOORING - SEE ELEVATOR

A12 ELEVATOR CAB FINISHES
3/8" = 1'-0"

DIRECTION.

BACK WALL

SPECIFICATIONS

1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 21 | 22 | 23 | 24 | 25

WITHIN THE EXISTING PERIMETER TRIM.

**GENERAL NOTES** 

- 1. DIMENSIONS ARE MEASURED FACE-OF-FINISH TO FACE-OF-FINISH OR ROUGH MASONRY OPENING UNLESS NOTED OTHERWISE - TYPICAL FOR ALI
- DRAWINGS. 2. FIELD VERIFY ALL DIMENSIONS AND **EXISTING CONDITIONS - TYPICAL FOR** ALL DRAWINGS. 3. IN THE EVENT OF A DISCREPANCY
- BETWEEN ARCHITECTURAL AND CONSULTANT DRAWINGS, NOTIFY ARCHITECT IMMEDIATELY PRIOR TO COMMENCING WORK - TYPICAL FOR ALL DRAWINGS. 4. ALL PENETRATIONS IN FIRE RATED
- FLOORS AND WALLS MUST BE SEALED WITH APPROPRIATE FIRESTOPPING 5. PATCH AND REPAIR EXISTING FLOOR SLABS AND WALL SURFACES DAMAGED FROM DEMOLITION.

GRIMES BUILDING ELEVATOR MOD. 400 E 14TH STREET

100 Court Ave., Suite 100

www.opnarchitects.com

rights, including the copyright thereto.

© 2025 OPN Architects, Inc.

STATE OF IOWA

109 SE 13TH STREET DES MOINES, IA 50319

All reports, plans, specifications, computer files, field data,

notes and other documents and instruments prepared by OPN Architects, Inc. as instruments of service shall remain

the property of OPN Architects, Inc. OPN Architects, Inc.

shall retain all common law, statutory and other reserved

Des Moines, IA 50309

P: 515-309-0722

DES MOINES, IA 50319 CONSTRUCTION MANAGER **DCI GROUP** 

220 SE 6TH STREET, SUITE 200 DES MOINES, IA 50309 ELEVATOR CONSULTANT

LERCH BATES 7625 GOLDEN TRIANGLE DRIVE, SUITE T EDEN PRAIRIE, MN 55344 Mechanical Engineer

KCL ENGINEERING 300 4TH STREET WEST DES MOINES, IA 50317 Electrical Engineer

KCL ENGINEERING 300 4TH STREET WEST DES MOINES, IA 50317

Key Plan

OPN Project No. 24850000

EXISTING PERFORATED

NEW LINEAR LED CAB

LIGHTING IN EXISTING

CAB EXTERIOR

A21 ELEVATOR CAB CEILING
3/8" = 1'-0"

RECESSED PANEL POCKET.

REMAIN - PAINT - TYPICAL.

METAL PANELS TO

- FLUSH SET C.O.P. PANEL

NEW ALUM. CHECKER PLATE PANELS TO

WITHIN THE EXISTING PERIMETER TRIM.

BE INSTALLED OVER EXISTING SHELL

FLUSH MOUNT WITH CONSTRUCTION

ATTACHMENTS AT MAX. 2' O.C. EACH

EXISTING RAISED PERIMETER TRIM

TO REMAIN - PAINT - TYPICAL.

SIDE WALLS

ADHESIVE AND COUNTERSUNK

Sheet Issue Date **BID SET** 03/14/2025

Sheet Name **FLOOR PLANS** 

Sheet Number A100.4

## **MECHANICAL - GENERAL NOTES**

- COORDINATE MECHANICAL AND ELECTRICAL WORK WITH ALL OTHER TRADES. BEGIN INSTALLATION AND ROUGH-IN AFTER COORDINATION WITH ALL TRADES ASSOCIATED WITH THE INSTALLATION IS COMPLETE. COORDINATE BUILDING STRUCTURE, ARCHITECTURAL ASSEMBLIES, SHEET METAL, ALL PIPING SYSTEMS, LIGHT FIXTURES, CONDUITS, CABLE TRAYS, ETC. REFER TO ALL GENERAL, MECHANICAL, AND ELECTRICAL DRAWINGS AND SPECIFICATIONS FOR THIS PROJECT. CONTRACTOR IS RESPONSIBLE FOR REWORK ASSOCIATED WITH FAILURE TO COORDINATE.
- INCORPORATE MECHANICAL SPECIFICATIONS, DRAWINGS, STATE AND LOCAL CODES, AND OWNER STANDARDS INTO WORK.
- EACH TRADE IS RESPONSIBLE FOR MAKING PENETRATIONS WHERE REQUIRED IN EXISTING WALLS, FLOORS, CEILINGS, AND ROOFS. MAKE PENETRATIONS NEAT. PATCH, CONCEAL, OR CAULK OVERCUT.
- COVER EXPOSED WALL PENETRATIONS WITH ESCUTCHEONS OR SHEET METAL AS
- CAULK ALL CONCEALED AND EXPOSED PIPING AND DUCT WALL PENETRATIONS TO PREVENT NOISE TRANSFER BETWEEN SPACES.
- ON COMPLETION OF THE INSTALLATION, COOPERATE WITH THE OWNER TO PROVIDE TESTING, ADJUSTING, AND BALANCING TO OBTAIN PROPER OPERATION OF ALL EQUIPMENT AND SYSTEMS. PROVIDE ALL FACILITIES AND EQUIPMENT AND COMPLETE ALL TESTS REQUIRED FOR ADJUSTMENTS AND BALANCING TO ESTABLISH THE PROPER PERFORMANCE OF EQUIPMENT.

#### **MECHANICAL - DEMOLITION NOTES**

- MECHANICAL DEMOLITION DRAWINGS SHOWING EXISTING CONDITIONS HAVE BEEN PREPARED BASED ON NON-DESTRUCTIVE FIELD OBSERVATION AND AS-BUILT DRAWINGS PROVIDED BY THE OWNER. FIELD VERIFY EXISTING SYSTEMS BEFORE BEGINNING WORK. NOTIFY ARCHITECT/ENGINEER IF EXISTING CONDITIONS ARE MATERIALLY DIFFERENT THAN THOSE SHOWN ON THE PLANS.
- BE FAMILIAR WITH EXISTING MECHANICAL SYSTEMS THAT WILL BE AFFECTED BY THE DEMOLITION WORK. OBTAIN PERMISSION FROM THE OWNER'S REPRESENTATIVE TO SHUT OFF SERVICES OR SYSTEMS THAT AFFECT AREAS BEYOND THE LIMITS OF THE IMMEDIATE DEMOLITION AREA. INFORM THE OWNER'S REPRESENTATIVE OF THE REASON FOR AND DURATION OF THE SHUTDOWN. MINIMIZE IMPACT TO OTHER AREAS. PROCEED WITH THE SHUT-DOWN AFTER PERMISSION FROM THE OWNER IS GRANTED.
- REMOVE PIPING, HANGERS, DUCTWORK, GRILLES, REGISTERS, DIFFUSERS, ETC. THAT ARE INDICATED TO BE REMOVED IN A TIMELY MANNER IN ACCORDANCE WITH THE GENERAL DEMOLITION SPECIFICATIONS. COORDINATE WITH THE OWNER AND OTHER CONTRACTORS.
- UNLESS EQUIPMENT TO BE REMOVED IS NOTED AS OWNER'S SALVAGE, DISPOSE OF EQUIPMENT AND/OR MATERIALS INDICATED TO BE REMOVED PROMPTLY.
- REMOVE ALL ABANDONED PIPING AND DUCTWORK THAT IS EXPOSED OR ACCESSIBLE WITHOUT WALL OR CEILING DEMOLITION. REFER TO ARCH PLANS FOR CEILINGS TO BE
- REPAIR OR REPLACE TELECOMMUNICATIONS FACILITIES OR EQUIPMENT FOUND TO BE DAMAGED OR NON-FUNCTIONAL AFTER SUBSTANTIAL COMPLETION.

EXTEND EXISTING SIEMENS CONTROL SYSTEM AS REQUIRED FOR ADDITIONAL SENSOR NEAR ELEVATOR EQUIPMENT.

#### ELECTRICAL ABBREVIATIONS

- DEVICE MOUNTED +8" ABOVE COUNTER TOP (VERIFY LOCATION) AFF ABOVE FINISHED FLOOR ATS AUTOMATIC TRANSFER SWITCH CEILING
- CIRCUIT BREAKER **CURRENT TRANSFORMER** EXISTING ITEM TO REMAIN ELECTRICAL CONTRACTOR
- EMERGENCY LIGHT FIXTURE NEW LOCATION OF EXISTING ITEM ROUGH IN FOR FUTURE DEVICE
- FAAP FIRE ALARM ANNUNCIATOR PANEL FACP FIRE ALARM CONTROL PANEL FSD FIRE SMOKE DAMPER GROUND FAULT CIRCUIT INTERRUPTER TCC TEMPERATURE CONTROL CONTRACTOR
- GND GROUND KVA KILO-VOLT-AMPERES TYP TYPICAL UPS UNINTERRUPTIBLE POWER SUPPLY KW KILOWATTS MC MECHANICAL CONTRACTOR MCB MAIN CIRCUIT BREAKER MDP MAIN DISTRIBUTION PANEL
- V VOLTS VA VOLT-AMPERES WG WIREGUARD COVER WP WEATHERPROOF DEVICE N NEW DEVICE IN EXISTING LOCATION WR WEATHER RESISTANT DEVICE

1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22

NIC NOT IN CONTRACT

OFCI OWNER FURNISHED

OFOI OWNER FURNISHED.

RELOCATED

TELEVISION

OWNER INSTALLED

REPLACED WITH NEW

TAMPER PROOF DEVICE

CONTRACTOR INSTALLED

EXISTING ITEM TO BE REMOVED

RR EXISTING ITEM TO BE REMOVED AND

RN EXISTING ITEM TO BE REMOVED AND

+24" INDICATES MOUNTING HEIGHT CENTER

LINE OF DEVICE TO FINISHED FLOOR

SCCR SHORT CIRCUIT CURRENT RATING

NM NONMETALLIC

NTS NOT TO SCALE

OC ON CENTER

## **GENERAL NOTES - ELECTRICAL**

MLO MAIN LUGS ONLY

- COORDINATE LOCATION/INSTALLATION OF MECHANICAL AND ELECTRICAL WORK WITH ALL OTHER TRADES, BEGIN INSTALLATION AND ROUGH-IN ONLY AFTER PROPER AND TIMELY COORDINATION WITH ALL TRADES ASSOCIATED WITH THE INSTALLATION IS COMPLETE. COORDINATE WITH BUILDING STRUCTURE, ARCHITECTURE, MECHANICAL SHEET METAL, ALL PIPING SYSTEMS, LIGHT FIXTURES, CONDUITS, CABLE TRAYS, EQUIPMENT ACCESS/CLEARANCE, ETC. REFER TO ALL GENERAL, MECHANICAL, AND ELECTRICAL DRAWINGS AND SPECIFICATIONS FOR THIS PROJECT. CONTRACTOR IS RESPONSIBLE FOR REWORK OF INSTALLED EQUIPMENT RESULTING FROM INSUFFICIENT COORDINATION.
- ELECTRICAL DRAWINGS ARE ONLY A PORTION OF THE COMPLETE SET OF PLANS AND CONTRACT DOCUMENTS. THE ELECTRICAL SCOPE OF WORK IS DEFINED BY THE COMPLETE SET OF CONTRACT DOCUMENTS. THIS INCLUDES BUT IS NOT LIMITED TO REFERENCING; ARCHITECTURAL PLANS FOR DIMENSIONS AND DETAILS; EQUIPMENT PLANS FOR ROUGH-IN REQUIREMENTS, MECHANICAL PLANS FOR EQUIPMENT SIZES AND LOCATIONS.

## **INSTALLATION NOTES - ELECTRICAL**

- INCREASE CONDUCTOR SIZES ON 20A 120V-1 PHASE CIRCUITS EXCEEDING 100 FEET TO CENTER OF LOAD TO ACCOUNT FOR VOLTAGE DROP.
- RACEWAYS AND BOXES ARE SHOWN DIAGRAMMATICALLY ONLY AND INDICATE GENERAL AND APPROXIMATE LOCATIONS, LAYOUTS DO NOT ALWAYS SHOW THE TOTAL NUMBER OF RACEWAYS OR BOXES FOR THE CIRCUITS REQUIRED, NOR ARE THE LOCATIONS OF INDICATED RUNS INTENDED TO SHOW THE ACTUAL ROUTING OF THE RACEWAYS.
- LIGHT FIXTURES, SWITCHES, DEVICES, ETC. ARE SHOWN IN PREFERRED LOCATION. MODIFY CONDUIT, HANGERS, CIRCUITING, ETC. TO PROVIDE A COMPLETE AND OPERATIONAL SYSTEM.
- PROVIDE A DEDICATED GREEN INSULATED GROUND CONDUCTOR TO ALL DEVICES, DO NOT USE CONDUIT SYSTEM AS THE ONLY EQUIPMENT GROUNDING METHOD.
- PROVIDE TYPED PANEL DIRECTORY AT PROJECT COMPLETION FOR NEW PANELS AND EXISTING PANELS WITH CIRCUITS MODIFIED DURING PROJECT. USE OWNER'S CURRENT ROOM NUMBERS AND EQUIPMENT NAMES. PROVIDE UNIQUE CIRCUIT IDENTIFICATION
- CONTRACTOR IS RESPONSIBLE FOR OPENINGS IN WALLS, FLOORS, CEILINGS, AND ROOFS THAT ARE REQUIRED TO COMPLETE THEIR SCOPE OF WORK. SEAL PENETRATIONS IN ACCORDANCE WITH THE RATING OF THE AFFECTED ASSEMBLY. REFER TO ARCHITECTURAL CODE PLAN FOR RATED WALLS, FLOORS, AND CEILINGS.

## **CODE NOTES - ELECTRICAL**

- PROVIDE ELECTRICAL INSTALLATION IN ACCORDANCE WITH STATE CODES.
- THE CURRENT ADOPTED EDITION OF THE ELECTRICAL CODE IS THE STANDARD FOR THE ELECTRICAL INSTALLATION. VERIFY WITH STATE OFFICIALS WHEN PERMITS ARE OBTAINED. NOTIFY DESIGN TEAM OF ANY DISCREPANCIES BETWEEN THE PROJECT MANUAL OR DRAWINGS AND THE GOVERNING CODE.
- INSTALLATION SHALL FOLLOW REQUIREMENTS OF THE ADAAG -AMERICANS WITH DISABILITIES ACT.
- REFER TO PROJECT MANUAL AND PROJECT CODE REVIEW SHEET FOR LIST OF APPLICABLE
- PER NEC EVERY CIRCUIT AND CIRCUIT MODIFICATION SHALL BE LEGIBLY IDENTIFIED AS TO ITS CLEAR, EVIDENT AND SPECIFIC PURPOSE OR USE. CONTRACTOR TO PROVIDE FINAL CIRCUIT IDENTIFICATION FOR ALL NEW AND MODIFIED CIRCUITS AT PROJECT COMPLETION.

## **DEVICE INSTALLATION AND MATERIALS - ELECTRICAL**

- 1. PROVIDE NORMAL WIRING DEVICES AS <u>GRAY</u> UNLESS OTHERWISE NOTED.
- PROVIDE EMERGENCY WIRING DEVICES AS <u>ORANGE</u> UNLESS OTHERWISE NOTED.
- PROVIDE DEVICES COVER PLATES AS <u>STAINLESS STEEL</u>. MATCH WIRING DEVICES COLOR. PROVIDE GFCI TYPE RECEPTACLES AT ALL LOCATIONS REQUIRED BY THE NEC.
- INSTALL ABOVE COUNTERTOP RECEPTACLES +8" ABOVE COUNTERTOP OR AS OTHERWISE
- AT A COMMON COUNTERTOP, INSTALL ALL RECEPTACLES AND SWITCHES AT THE SAME HEIGHT UNLESS OTHERWISE SPECIFICALLY INDICATED.

## FIRE DETECTION & ALARM NOTES

- INSTALL HEAT DETECTORS IN WORK AREAS DURING CONSTRUCTION TO MINIMIZE FALSE TRIPS. INSTALL PERMANENT DETECTORS IN LOCATIONS SHOWN UPON CONSTRUCTION COMPLETION.
- INSTALL MODULES AT ELEVATOR EQUIPMENT TO PROVIDE PRIMARY RECALL, SECONDARY RECALL, FIRE HAT AND SHUNT TRIP. PROVIDE PROGRAMMING AS NECESSARY FOR FUNCTION SYSTEM.
- FIRE ALARM ITEMS AND DEVICES ARE SHOWN IN SUGGESTED LOCATIONS. FINAL LAYOUTS. LOCATIONS, AND QUANTITIES SHALL BE IN ACCORDANCE WITH APPLICABLE CODES, MANUFACTURER'S RECOMMENDATIONS, AND EQUIPMENT LISTINGS. COORDINATE LOCATIONS WITH LIGHTING AND AIR HANDLING SYSTEMS.
- ALL FIRE ALARM CIRCUITRY IN EXPOSED CEILING SPACES SHALL BE IN 3/4" CONDUIT PER SPECIFICATIONS. EXPOSED CABLING SHALL NOT BE ACCEPTED.
- ALL CONCEALED, ACCESSIBLE CEILING TILE LOCATIONS SHALL BE ALLOWED TO HAVE OPEN AIR CABLING INSTALLED. PROVIDE J-HOOKS, BRIDLE RINGS AND ASSOCIATED CABLE SUPPORTS TO KEEP INFRASTRUCTURE MANAGED AND OFF OF THE CEILING TILE.
- ELECTRICAL CONTRACTOR SHALL PROVIDE FIRESTOPPING AT ALL PENETRATIONS PER

## COMMUNICATION NOTES

SPECIFICATION.

1 2 3 4 5 6 7 8 9 10 11 12 13

- REUSE EXISTING POTS LINE IN THE ELEVATOR EQUIPMENT ROOM FOR THE ELEVATOR TELEPHONE. REVISE LOCATION AND EXTEND AS NECESSARY FOR NEW EQUIPMENT LOCATIONS.
- INSTALL NEW DATA CABLING FROM IDF LOCATIONS SHOWN ON PLANS TO EACH ELEVATOR EQUIPMENT ROOM FOR NEW 2-WAY COMMUNICATION SYSTEM.

## LIGHTING SYMBOLS

RECESSED LIGHT FIXTURE, LETTER INDICATES SWITCH LEG (TYPICAL), SHADING INDICATES EMERGENCY LIGHT (TYPICAL)

ROUND APERTURE RECESSED DOWNLIGHT FIXTURE, ARROW INDICATES WALLWASH

LINEAR PENDANT MOUNTED FIXTURE

SURFACE MOUNTED STRIP FIXTURE

INDUSTRIAL STRIP LIGHT FIXTURE

WALL MOUNTED STRIP LIGHT FIXTURE.

EMERGENCY LIGHT FIXTURE, WALL MOUNT, +96" OR AS NOTED

EMERGENCY LIGHT FIXTURE, CEILING MOUNT

EXIT SIGN, WALL MOUNT +96", SHADED AREAS INDICATE NUMBER OF FACES, ARROWS INDICATE SIGN ARROWS

EXIT SIGN, CEILING MOUNT, SHADED AREAS INDICATE NUMBER OF FACES, ARROWS INDICATE SIGN ARROWS

SINGLE POLE SWITCH, WALL MOUNT, LETTER INDICATES SWITCH LEG

THREE WAY SWITCH, WALL MOUNT, LETTER INDICATES SWITCH LEG

PILOT LIGHT SWITCH, WALL MOUNT, LETTER INDICATES SWITCH LEG

LIGHTING CONTROLS LOW VOLTAGE SWITCH, WALL MOUNT, LETTER INDICATES SWITCH LEG, REFER TO LIGHTING CONTROLS SCHEDULE

DIMMER SWITCH, WALL MOUNT, LETTER INDICATES SWITCH LEG

EMERGENCY TRANSFER DEVICE

## <u>TECHNOLOGY RESPONSIBILITY MATRIX</u>

PROVISION RESPONSIBILITIES DEFINED		OFOI	OFCI	CFCI
COMMUNICATIONS - TELECOM SYST	EMS:			
ROUGH-IN, PATHWAYS AND SLE	EVES			
RACKS, FRAMES AND ENCLOSU	ND ENCLOSURES REUSE EXISTI		NG	

RACKS, FRAMES AND ENCLOSURES	REU:	SE EXISTI	NG
COPPER HORIZONTAL CABLING			
DATA COMMUNICATIONS SWITCHES AND HUBS	REU	SE EXISTII	NG
SECURITY - ACCESS CONTROL:			
ROUGH-IN, PATHWAYS AND SLEEVES			

			_		
SECURITY MANAGEMENT SYSTEM - HEAD END COMPONENTS					
SECURITY MANAGEMENT SYSTEM - FIELD DEVICES					
SECURITY MANAGEMENT SYSTEM - ELECTRIFIED DOOR HARDWAF	RE		•		
SECURITY MANAGEMENT SYSTEM - ALL CABLING					
SECURITY - VIDEO SURVEILLANCE:					
ROUGH-IN, PATHWAYS AND SLEEVES	N/A	N/A	N/A		
CAMERA(S)	N/A	N/A	N/A		
HEAD END EQUIPMENT AND COMPONENTS	N/A	N/A	N/A		

CAMERA(S)	N/A	N/A	
HEAD END EQUIPMENT AND COMPONENTS	N/A	N/A	
SAFETY - FIRE DETECTION AND ALARM:			
ROUGH-IN, PATHWAYS AND SLEEVES			
INITIATING FIELD DEVICES (SMOKE, MANUAL PULL, MONITOR MODULES)			
NOTIFICATION APPLIANCES (HORNS, STROBES, SPEAKERS)			
MISCELLANEOUS DEVICES (RELAYS, TEST STATION, ANNUNCIATOR)			

- OFOI <u>o</u>wner <u>f</u>urnished & <u>o</u>wner <u>i</u>nstalled
- OFCI <u>o</u>wner <u>f</u>urnished & <u>c</u>ontractor <u>i</u>nstalled CFCI <u>c</u>ontractor <u>f</u>urnished & <u>c</u>ontractor <u>i</u>nstalled

MATRIX IS NOT INTENDED TO BE EXHAUSTIVE TO COVER ALL MATERIALS NECESSARY FOR SCOPE AND SHOULD ONLY BE USED TO QUICKLY IDENTIFY SYSTEMS AND RELATED INFRASTRUCTURE INSIDE AND OUTSIDE THE BID OF THIS PROJECT. ANY ITEMS FURNISHED OR INSTALLED BY THE BIDDING CONTRACTOR SHALL COVER ALL REQUIRED APPERTUNANCES NECESSARY FOR A COMPLETE SYSTEM. THIS SHALL INCLUDE BUT NOT BE LIMITED TO, EQUIPMENT. ACCESSORIES. TERMINATIONS, TERMINATION COMPONENTS, ALL FINAL CORDAGE CONNECTIVITY, SOFTWARE, PROGRAMMING, AND THE LABOR TO INSTALL.

E CONDUIT SLEEVE

GENERAL SYMBOLS

CONDUIT UP, REFER TO TAG ON DRAWING FOR SIZE

CONDUIT DOWN, REFER TO TAG ON DRAWING FOR SIZE

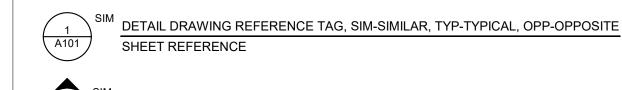
JUNCTION BOX, CEILING OR FLOOR MOUNTED.

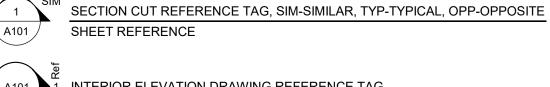
JUNCTION BOX, WALL MOUNTED, ELEVATION AS NOTED.

KEYNOTE

EQUIPMENT IDENTIFICATION TAG. REFER TO EQUIPMENT CONNECTION SCHEDULE

DRAWINGS REVISION. REFER TO TITLEBLOCK FOR REVISION NAME AND DATE





INTERIOR ELEVATION DRAWING REFERENCE TAG

## POWER SYMBOLS

- SINGLE RECEPTACLE, WALL MOUNTED
- DUPLEX RECEPTACLE, WALL MOUNTED, TAMPER-RESISTANT
- DUPLEX GFCI RECEPTACLE, TAMPER-RESISTANT, WALL MOUNT, PROTECTION INCLUDED IN DEVICE.
- DUPLEX GFCI WEATHER RESISTANT RECEPTACLE WITH WEATHER-PROOF IN-USE COVER, TAMPER-RESISTANT, WALL MOUNT
  - EQUIPMENT CONNECTION. REFER TO EQUIPMENT CONNECTION SCHEDULE FOR CONNECTION TYPE. REFER TO PANEL SCHEDULES FOR GFCI PROTECTION WHERE REQUIRED
- MOTOR CONNECTION, REFER TO EQUIPMENT CONNECTION SCHEDULE FOR CONNECTION TYPE. REFER TO PANEL SCHEDULES FOR GFCI PROTECTION WHERE REQUIRED
- EQUIPMENT CONNECTION, WALL MOUNT, REFER TO EQUIPMENT CONNECTION SCHEDULE FOR CONNECTION TYPE.
- REFER TO PANEL SCHEDULES FOR GFCI PROTECTION WHERE REQUIRED
- SURGE PROTECTIVE DEVICE
- PANELBOARD SURFACE MOUNTED

SAFETY DISCONNECT SWITCH

- PANELBOARD RECESSED IN WALL
- DISTRIBUTION PANELBOARD/SWITCHBOARD SURFACE MOUNTED AS NOTED.

## TEMPERATURE CONTROLS SYMBOLS - DEVICES PROVIDED BY T.C.C

- THERMOSTAT JUNCTION BOX ROUGH-IN. WALL MOUNTED +48" OR AS NOTED. EXTEND 3/4" CONDUIT TO ACCESSIBLE LOCATION ABOVE CEILING.
- HUMIDISTAT JUNCTION BOX ROUGH-IN. WALL MOUNTED +48" OR AS NOTED.
- CARBON DIOXIDE SENSOR JUNCTION BOX ROUGH-IN. WALL MOUNTED +48" OR AS

EXTEND 3/4" CONDUIT TO ACCESSIBLE LOCATION ABOVE CEILING.

- NOTED. EXTEND 3/4" CONDUIT TO ACCESSIBLE LOCATION ABOVE CEILING.
- TEMPERATURE SENSOR JUNCTION BOX ROUGH-IN. WALL MOUNTED +48" OR AS NOTED. EXTEND 3/4" CONDUIT TO ACCESSIBLE LOCATION ABOVE CEILING.

## **EQUIPMENT CONNECTION SCHEDULE**

## <u> ABBREVIATIONS:</u>

- NEMA 1 ENCLOSURE 3R NEMA 3R ENCLOSURE CB CIRCUIT BREAKER IN PANEL
- FAR FIRE ALARM SHUTDOWN RELAY
  - ST SHUNT TRIP TS TOGGLE SWITCH
- FDS FUSED DISCONNECT SWITCH, HEAVY
- INT INTEGRAL WITH EQUIPMENT FROM FACTORY
- 1. PROVIDE AND INSTALL ELECTRICAL SYSTEMS MEETING THE REQUIREMENTS OF THE PROVIDED MECHANICAL SYSTEMS. NFD NON-FUSED DISCONNECT SWITCH, HEAVY DUTY | 2. REVIEW EQUIPMENT SHOP DRAWINGS FOR COMPLIANCE AND COORDINATION WITH ELECTRICAL CONNECTIONS. NOTIFY ENGINEER IF CHANGES TO ELECTRICAL CONNECTIONS, WIRING, AND BREAKER REQUIREMENTS ARE NECESSARY. 3. PROVIDE HEAVY DUTY DISCONNECTS FOR THE INSTALLED ENVIRONMENT; NEMA 1 INDOORS, MINIMUM NEMA 3R
  - 4. INCLUDE AUXILLIARY CONTACTS AND LOW-VOLTAGE WIRING TO AUXILLIARY EQUIPMENT THAT RUNS IN TANDEM WITH

# EQUIPMENT, (I.E. 120V DAMPERS WITH 480V MOTORS).

ELECTRICAL CHARACTERISTICS SSI-1 NFD 208 V 1 SSO-1

## LIGHTING FIXTURE SCHEDULE

- 1. ALL FIXTURES SHALL BE U.L. OR SIMILARLY LISTED.
- . INCLUDE A MINIMUM 1 YEAR WARRANTY FOR LIGHTING FIXTURES, WHERE NOT OTHERWISE SPECIFIED.
- 3. REFER TO ARCHITECTURAL DOCUMENTS FOR EXACT MOUNTING LOCATIONS, DETAILS, AND CONFIGURATIONS OF ALL LUMINAIRES. IF ARCHITECTURAL DRAWINGS DO NOT CLARIFY EXACT MOUNTING
- LOCATION OR DETAIL, ISSUE AN RFI FOR ARCHITECT TO SPECIFICALLY CLARIFY PRIOR TO FIXTURE ROUGH-IN. 4. VERIFY COMPATIBILITY OF LIGHT FIXTURES WITH ARCHITECTUREAL CEILING PLAN, MATERIALS, ADJACENT CONSTRUCTION, AND ADJACENT FINISHES PRIOR TO SHOP DRAWINGS SUBMITTAL. ADJUST FIXTURE TYPE,
- CONSTRUCTION, FLANGE,...

17

5. CONTRACTOR IS RESPONSIBLE FOR ALL MISCELLANEOUS HARDWARE NECESSARY TO INSTALL AND SUPPORT THE LUMINAIRES. 6. AIM AND TARGET ADJUSTABLE INTERIOR AND EXTERIOR LIGHT FIXTURES UNDER THE OBSERVATION AND IN COMPLIANCE WITH RECOMMENDATIONS OF THE ARCHITECT.

INCLUDE LABOR AND MATERIAL COSTS MADE NECESSARY BY THIS REQUIREMENT. 7. CONTRACTOR IS RESPONSIBLE FOR OBTAINING AND FILLING OUT ALL UTILITY REBATE FORMS FOR OWNER.

RET-UNV

DESIGNED BY: ERIC HEYNEN

DRIVER | SOURCE-CC TYPE MANUFACTURER **DESCRIPTION** <u>APPROVED EQUALS</u> EMERGENCY LIGHT, WALL OR CEILING MOUNTED, WHITE 300 THERMOPLASTIC HOUSING, 2 LED ADJUSTABLE SURE-LITES, LIGHTALARMS, LAMP HEADS, LEAD-CALCIUM MAINTENANCE FREE EM HUBBELL DUAL-LITE LZ-2-I-03L LED - 4000K 120 V 2 VA BATTERY, SELF-DIAGNOSTICS. MULTI-VOLT UTILITY STRIP FIXTURE 4', WET LISTED, GASKETED, WHITE 5000 F1 LITHONIA COOPER, CURRENT LED - 4000K 120 V 35 VA POLYCARB LENS, MULTI-VOLT REQUIRED MVOLT 40K 80CRI CSVT L48 5000LM WHITE 5000 F2 LITHONIA SAME AS F1 BUT WALL MOUNTED LED - 4000K COOPER, CURRENT 120 V 35 VA MVOLT 40K 80CRI NU4E4-RD-SW-15LM-3

FK 00 60D CL WH WH

A" RECESSED DOWNLIGHT, MULTI-VOLT, RETROFIT IN EXISTING DRYWALL CEILING, EXTEND 5K-90-60D-CL-WH-WH-CIRCUIT/SWITCHLEG FROM EXISTING LIGHTING IN F3 ALPHABET LED - 3500K 120 V 16 VA GOTHAM, PORTFOLIO

West Des Moines, IA 50265 515-724-7938

100 Court Ave., Suite 100 Des Moines, IA 50309 P: 515-309-0722

www.opnarchitects.com All reports, plans, specifications, computer files, field data, notes and other documents and instruments prepared by OPN Architects, Inc. as instruments of service shall remain the property of OPN Architects, Inc. OPN Architects, Inc. shall retain all common law, statutory and other reserved rights, including the copyright thereto.

© 2024 OPN Architects, Inc.

1305 E. Walnut Street DES MOINES, IA 50319

Construction Manager DCI Group 220 SE 6TH Street - SUITE 200 DES MOINES, IA 50309 P. 515-244-5043

P. 612-441-4335

Elevator Consultant LERCH BATES 7625 GOLDEN TRIANGLE DRIVE, SUITE T EDEN PRAIRIE, MN 55344

Mechanical Engineer KCL ENGINEERING 300 4TH ST WEST DES MOINES, IA 50265 P. 515-724-7938

Electrical Engineer KCL ENGINEERING 300 4TH ST WEST DES MOINES, IA 50265 P. 515-724-7938

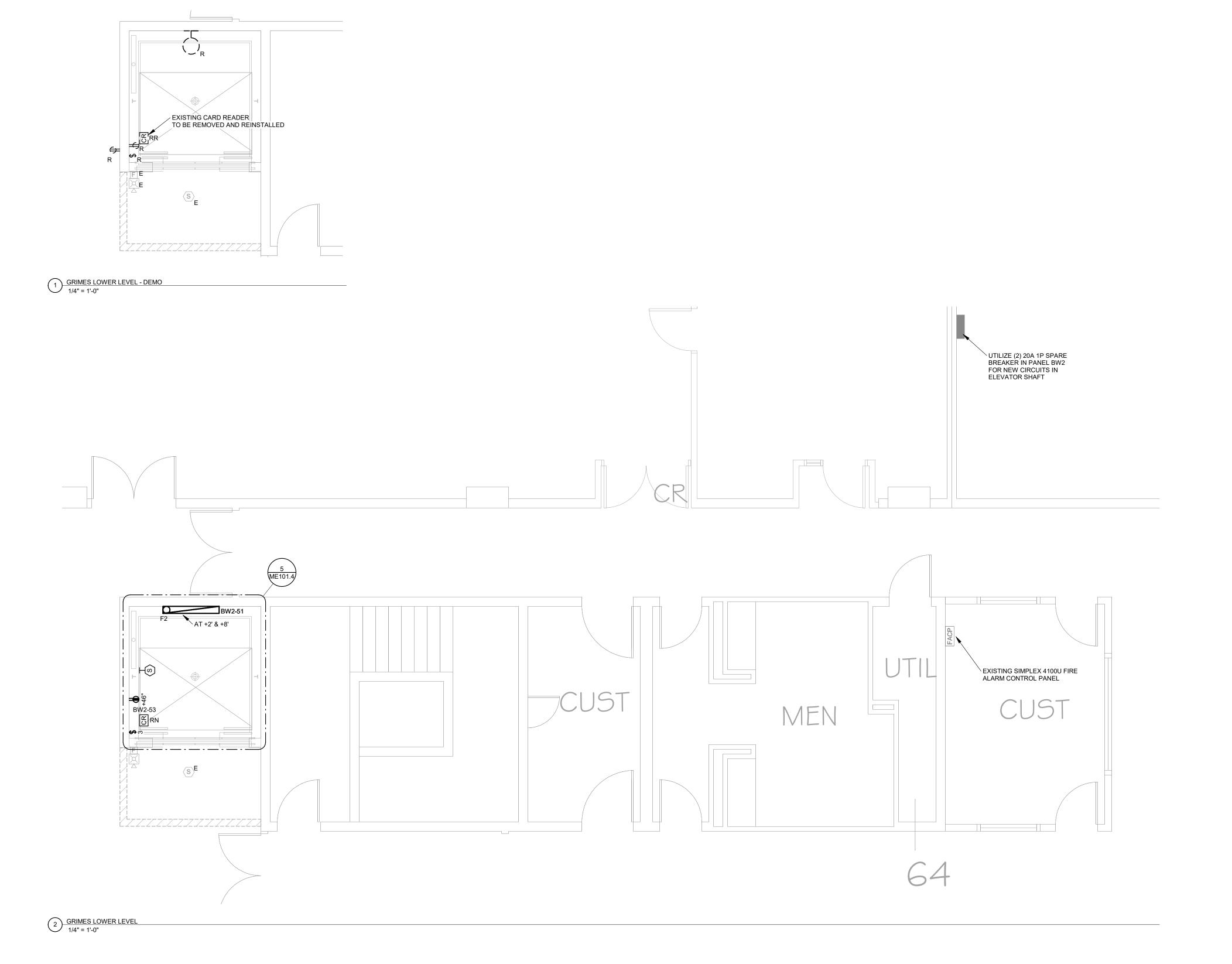
OPN Project No.

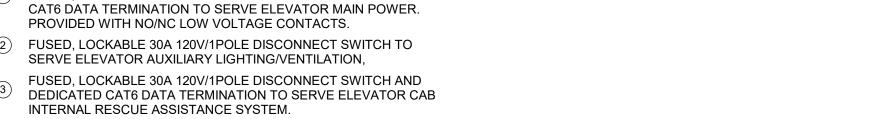
24850000

Sheet Issue Date

Sheet Name **ELECTRICAL/MECHANICAL GENERAL NOTES & SYMBOLS GRIMES ME000.4** 

03/14/2025





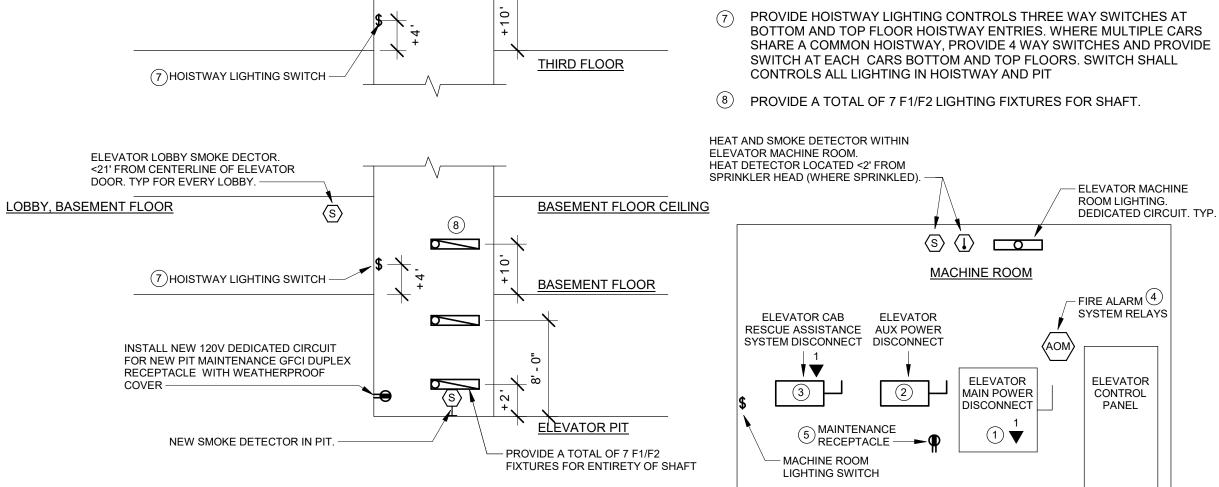
1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20

FIRE ALARM SYSTEM HAT FLASH, PRIMARY RECALL, SECONDARY RECALL, SHUNT TRIP, AND SHUNT TRIP MONITOR RELAYS. TOP OF HOISTWAY DEDICATED CIRCUIT 120V DUPLEX GFCI MAINTENANCE RECEPTACLE WITHIN MACHINE ROOM SPACE ADJACENT TO DISCONNECTS. 6) ELEVATOR HOISTWAY LIGHTING POWERED BY DEDICATED CIRCUIT. FOR EACH CAR, PROVIDE LIGHT FIXTURE AT TOP OF HOISTWAY, PIT, AND AT EACH FLOOR. FIXTURES ABOVE PIT LOCATED TO ILLUMINATE TOP OF CAR AT EACH STOP, TYPICAL 10' THIRD FLOOR CEILING ABOVE EACH LEVEL. PROVIDE HOISTWAY LIGHTING CONTROLS THREE WAY SWITCHES AT

**KEY NOTES:** 

SWITCH AT EACH CARS BOTTOM AND TOP FLOORS. SWITCH SHALL CONTROLS ALL LIGHTING IN HOISTWAY AND PIT

(1) FUSED, LOCKABLE 100A MAIN DISCONNECT SWITCH AND DEDICATED



6) ELEVATOR HOISTWAY LIGHTING. TYP.

HEAT & SMOKE DETECTORS INSTALLED AT TOP OF HOISTWAY.

HEAT DETECTOR LOCATED <2' FROM SPRINKLER HEAD. —

ELEVATOR LOBBY SMOKE DECTOR.

DOOR. TYP FOR EVERY LOBBY. -

LOBBY, THIRD FLOOR

West Des Moines, IA 50265

515-724-7938

<21' FROM CENTERLINE OF ELEVATOR

TYPICAL ELEVATOR HOISTWAY ELEVATION TYPICAL ELEVATOR MACHINE ROOM

DEMOLITION DRAWINGS PRESENT LAYOUT OF EXISTING CONDITIONS AND MAJOR MECHANICAL/ELECTRICAL ITEMS. FIELD VERIFY EXISTING CONDITIONS AND BECOME FAMILIAR WITH EXISTING ELECTRICAL SYSTEM AND DEMOLITION SCOPE BEFORE WORK BEGINS.

ADDITIONAL COMPONENTS MAY EXIST WHICH ARE NOT SHOWN. HANDLE SUCH ITEMS IN A MANNER SIMILAR TO THOSE ITEMS WHICH ARE SHOWN.

REMOVE ELECTRICAL FACILITIES AND CLEAR THE AREA TO RECEIVE THE NEW WORK. a. REMOVE ALL CONDUIT, WIRE, BOXES, ETC., AS REQUIRED BY WALL AND CEILING DEMOLITION.

DISCONNECTED BRANCH CIRCUITS BEFORE DEMOLITION. MAINTAIN CIRCUITS SERVING AREAS BEYOND THE DEMOLITION AREA.

TO REMOVE THE ELECTRICAL FACILITIES NOTED. REPLACE CEILINGS TILES DAMAGED DURING DEMOLITION.

REMOVE AND REINSTALL CEILING TILES AS REQUIRED

PHASES OF CONSTRUCTION UNLESS NECCESARY FOR DEMOLITION.

OR SYSTEMS WHICH MAY AFFECT OTHER AREAS BEYOND DEMOLITION AREA. INFORM OWNER AS TO THE REASON FOR AND THE DURATION OF THE SHUTDOWN.

REPAIR AT CONTRACTORS EXPENSE ANY DAMAGED CONDUIT OR WIRE NOT IDENTIFIED FOR DEMOLITION.

INSTALL BLANK COVERPLATES/COVERS OVER OPENINGS AT REMOVED DEVICE LOCATIONS.

ALL WIRING FOR REMODELED AREAS SHALL BE NEW UNLESS SPECIFICALLY NOTED OTHERWISE.

RELOCATED. IF AN EXISTING DEVICE CANNOT BE REINSTALLED NOTIFY DESIGN TEAM DURING DEMOLITION. REPLACE FUNCTIONING ITEMS DAMAGED DURING DEMOLITION.

REMOVED/DEMOLISHED EQUIPMENT REMAINS THE PROPERTY OF THE OWNER UNLESS OTHERWISE NOTED. VERIFY OWNERS SALVAGE SELECTIONS AND DISPOSE ALL OTHER MATERIALS.

E - EXISTING ITEM TO REMAIN ER - NEW LOCATION OF EXISTING ITEM N - NEW ITEM IN EXISTING LOCATION R - EXISTING ITEM TO BE REMOVED, PATCH AND/OR RN - REPLACE EXISTING WITH NEW RR - EXISTING ITEM TO BE REMOVED AND RELOCATED

#### **POWER GENERAL NOTES**

WITH MECHANICAL CONTRACTOR AND FINAL MECHANICAL SHOP

PROVIDE PENETRATIONS REQUIRED FOR ROUTING RACEWAYS THROUGH THE BUILDING. COORDINATE FIRE RATED WALL PENETRATIONS AND PROVIDE CONDUIT SLEEVES AND FIRE STOPPING TO MAINTAIN RATING.

#### **LIGHTING GENERAL NOTES**

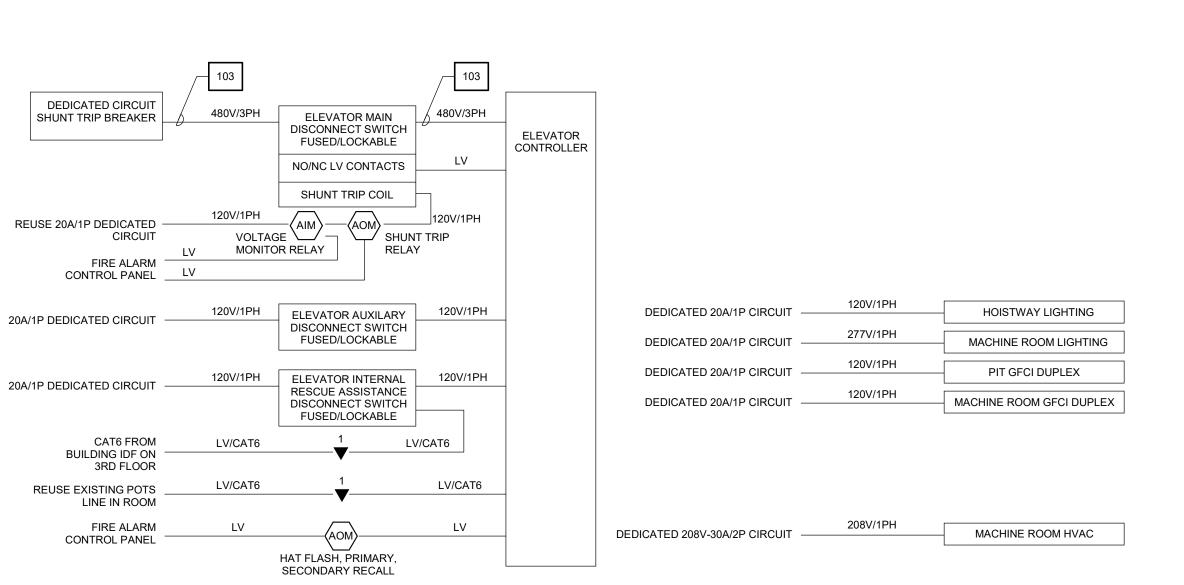
ELECTRICAL WORK WITH ALL OTHER TRADES. NO ASPECT OF A SYSTEM INSTALLATION OR ITS ROUGH-IN SHALL COMMENCE UNTIL PROPER AND TIMELY COORDINATION WITH ALL TRADES ASSOCIATED WITH THE INSTALLATION HAS TRANSPIRED. ITEMS TO BE COORDINATED SHALL INCLUDE BUT NOT BE LIMITED TO: BUILDING STRUCTURE, SHEET METAL, ALL PIPING SYSTEMS, LIGHT FIXTURES, CONDUITS, CABLE TRAYS, ETC. REFER TO ALL GENERAL, MECHANICAL, AND ELECTRICAL DRAWINGS AND

BATTERY FIXTURES WITH AN UN-SWITCHED LEG OF THE LIGHTING CIRCUIT THAT SERVES THE FIXTURES SPACE. MAINTAIN NORMAL SWITCHING SCHEME OF EMERGENCY

FIELD VERIFY LOCATIONS OF ELEVATOR CONNECTION, AUX. POWER CONNECTION, AND 2-WAY COMMUNICATION CONNECTION.

COPPER

FEEDER SCHEDULE											
TAG	PHASE	GROUND	CONDUCTOR MATERIAL	CONDUIT							
103	1- SET (3) #3	#8	COPPER	(1) 1"							



TYPICAL ELEVATOR SYSTEMS WIRING DIAGRAM

6 ELEVATOR SYSTEM DETAIL NOT TO SCALE



IDENTIFY THE LOCATION OR ITEMS SERVED FOR ALL

KEEP EXISTING SYSTEMS OPERATIONAL DURING ALL

OBTAIN OWNER'S PERMISSION TO SHUT OFF SERVICES

PROTECT EXISTING DEVICES IDENTIFIED TO REMAIN OR BE

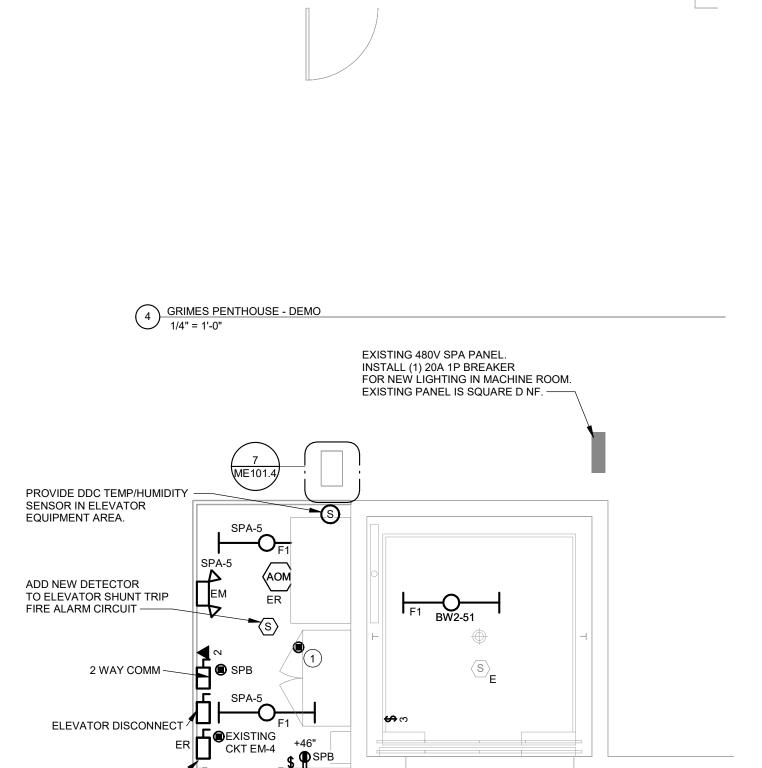
G. PLAN ABBREVIATIONS:

COORDINATE LOCATION/INSTALLATION OF MECHANICAL AND ELECTRICAL WORK WITH ALL OTHER TRADES. NO ASPECT OF A SYSTEM INSTALLATION OR ITS ROUGH-IN SHALL COMMENCE UNTIL PROPER AND TIMELY COORDINATION WITH ALL TRADES ASSOCIATED WITH THE INSTALLATION HAS TRANSPIRED. ITEMS TO BE COORDINATED SHALL INCLUDE BUT NOT BE LIMITED TO: BUILDING STRUCTURE, SHEET METAL, PIPING SYSTEMS, LIGHT FIXTURES, CONDUITS, CABLE TRAYS, ETC. REFER TO ALL GENERAL, MECHANICAL, AND ELECTRICAL DRAWINGS AND SPECIFICATIONS FOR THIS PROJECT.

COORDINATE ELECTRICAL REQUIREMENTS FOR MECHANICAL UNITS

COORDINATE LOCATION/INSTALLATION OF MECHANICAL AND SPECIFICATIONS FOR THIS PROJECT

UNLESS NOTED OTHERWISE, CONNECT ALL EMERGENCY FIXTURES UNDER NORMAL OPERATION.



CONSOLIDATE CIRCUITS ON

MACHINE ROOM AND (1) FOR

THE 2 WAY COMM. EXISTING

PANEL IS SQUARE D NQ

CIRCUIT IN ELEVATOR —

PANEL SPB TO MAKE WAY FOR (2) 120V CIRCUITS. (1) FOR

**60A EXISTING FUSED DISCONNECT** 

**EXISTING PRIMARY** 

SHUNT TRIP, CAR LIGHTING, AND MONITOR.

AS NECESSARY.

RECALL, ALT RECALL,

REUSE AND RELOCATE

REPROGRAM FOR NEW

FOR ELEVATOR CONNECTED TO BUS

EXISTING CAB LIGHTS FEED

CONTROLLER

REMOVE OPEN VENT -

AT TOP OF SHAFT. PATCH WITH INSULATED

CAB DISCONNECT /

APPROXIMATE LOCATION

OF THE DATA RACK ON THE THIRD FLOOR. PROVIDE NEW PATHWAYS, FIRE STOPPING. AND CONNECTION FOR ELEVATOR EQUIPMENT FROM DATA RACK.



Key Plan

100 Court Ave., Suite 100

www.opnarchitects.com

rights, including the copyright thereto.

© 2024 OPN Architects, Inc.

All reports, plans, specifications, computer files, field data,

notes and other documents and instruments prepared by

OPN Architects, Inc. as instruments of service shall remain

the property of OPN Architects, Inc., OPN Architects, Inc.

shall retain all common law, statutory and other reserved

**Grimes Elevator Modernization** 

220 SE 6TH Street - SUITE 200

7625 GOLDEN TRIANGLE DRIVE, SUITE T

1305 E. Walnut Street

DES MOINES, IA 50319

DES MOINES, IA 50309

EDEN PRAIRIE, MN 55344

WEST DES MOINES, IA 50265

WEST DES MOINES, IA 50265

Construction Manager

P. 515-244-5043

Elevator Consultant

LERCH BATES

P. 612-441-4335

KCL ENGINEERING

KCL ENGINEERING

Mechanical Engineer

300 4TH ST

Electrical Engineer

300 4TH ST

P. 515-724-7938

P. 515-724-7938

DCI Group

Des Moines, IA 50309

P: 515-309-0722

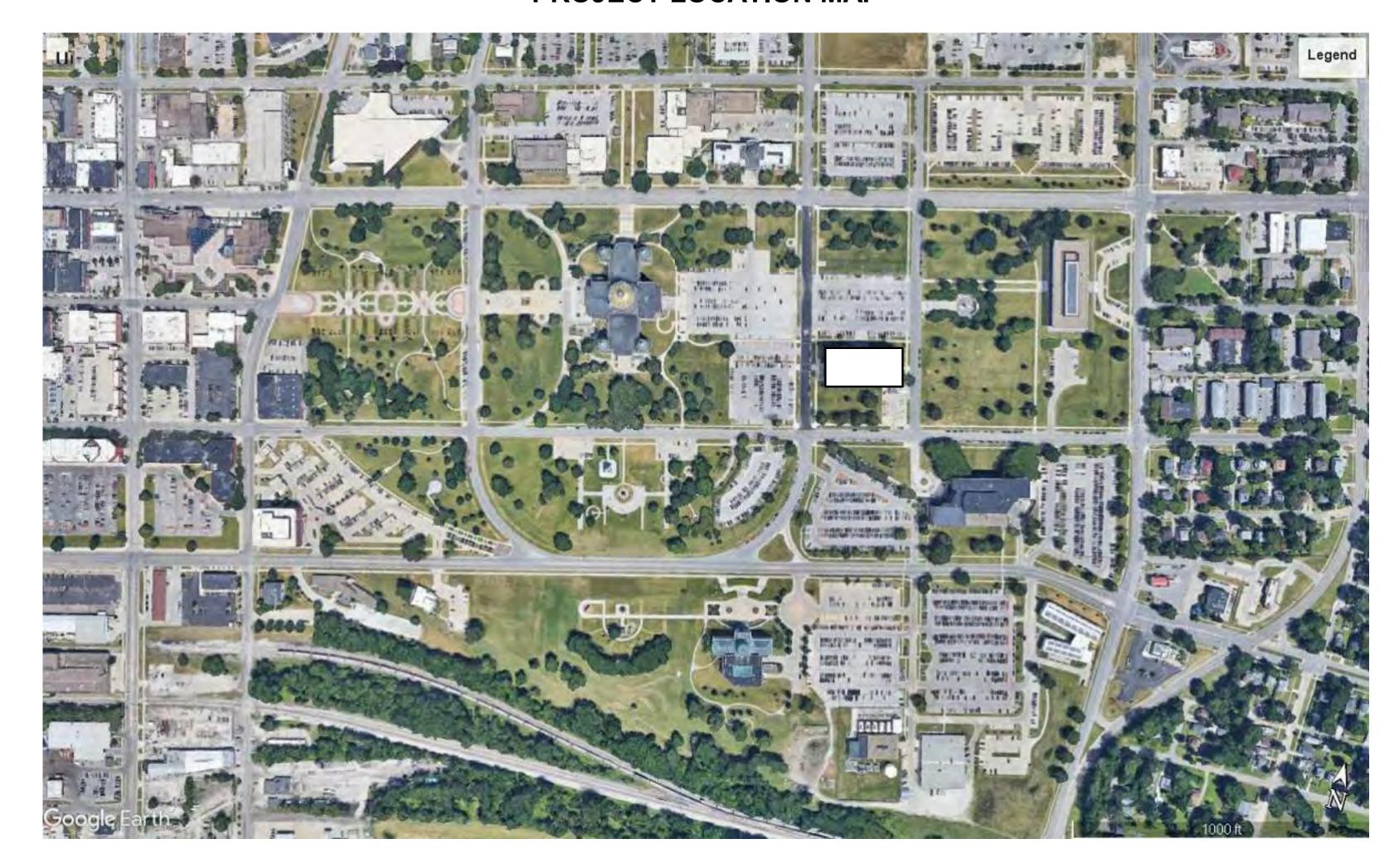
OPN Project No. 24850000

Sheet Issue Date 03/14/2025

Sheet Name **ELECTRICAL/MECHANICAL GRIMES** Sheet Number

**ME101.4** 

## PROJECT LOCATION MAP



#### SHEET INDEX

AG001.5	COVER SHEET
AG002.5	SITE LOGISTICS PLAN
AD100.5	DEMO FLOOR PLANS
AD101.5	DEMO FLOOR PLANS
AD200.5	EXISTING CONDITIONS
AD201.5	EXISTING CONDITIONS
A100.5	FLOOR PLANS
A101.5	FLOOR PLANS
ME000.5	MECHANICAL / ELECTRICAL GENERAL NOTES & SYMBOL
ME101.5	ELECTRICAL / MECHANICAL LUCAS HYDRAULIC
ME102.5	ELECTRICAL / MECHANICAL LUCAS FREIGHT

#### APPLICABLE CODE INFORMATION

#### THE PROJECT SHALL COMPLY WITH THE FOLLOWING CODES

2015 INTERNATIONAL BUILDING CODE AS ADOPTED BY IOWA ADMINISTRATIVE RULE 661-201 AND 661-301

2010 AMERICANS WITH DISABILITIES ACT AS ADOPTED BY IOWA ADMINISTRATIVE RULE 661-302

STATE MECHANICAL CODE AS ADOPTED BY THE DEPARTMENT OF PUBLIC HEALTH IOWA ADMINISTRATIVE RULE 641-61

STATE PLUMBING CODE AS ADOPTED BY THE DEPARTMENT OF PUBLIC HEALTH IOWA ADMINISTRATIVE RULE 641-25

2015 INTERNATIONAL FIRE CODE AS ADOPTED BY IOWA ADMINISTRATIVE RULE 661-201

STATE ELECTRICAL CODE AS ADOPTED BY THE STATE ELECTRICAL LICENSING BOARD IOWA ADMINISTRATIVE RULE 661-504

2015 INTERNATIONAL EXISTING BUILDING CODE AS ADOPTED BY IOWA ADMINISTRATIVE RULE 661-301 AND 661-350

IBC Chapter 2 - Use and Occupancy Classification

The use and occupancy classification of the existing building are unchanged.

IBC Chapter 5 - General Building Heights and Areas Existing building use and size to remain unchanged.

IBC Chapter 6 - Types of Construction

The type of construction for the existing building is unchanged. IBC Chaper 7 - Fire and Smoke Protection Features

New construction is limited and existing construction is not being modified. For construction purposes, shaft is considered to be 2 HR construction.

IBC Chapter 8 - Interior Finishes New construction is limited and matches existing interior finishes.

IBC Chapter 10 - Means of Egress All means of egress are being maintained in the existing building.

IBC Chapter 30 - Elevators and Conveying Systems

Fire resistance rated construction is provided at the elevator machine room Smoke protection at hoistway openings is not required per IBC 3006.2.

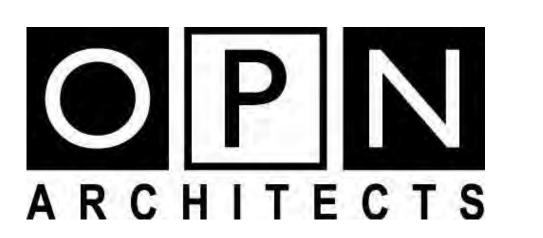
Iowa Administrative Code, Chapter 16, Division VII - Accessibility Requirements For Facilities Used by the General

<u>Iowa Administrative Code, Chapter 72 - Conveyances Installed on or After January 1, 1975</u>

Elevator pit sump pump is not required per 72.13(3).

# STATE OF IOWA - LUCAS BUILDING ELEVATOR MOD.

321 E. 12th Street, DES MOINES, IA 50319



100 Court Ave. Suite 100, Des Moines, IA 50309 P: 515-309-0722 F: 515-309-0725 www.opnarchitects.com

ARCHITECT OPN ARCHITECTS 100 COURT AVENUE

DES MOINES, IA 50309

**CONSTRUCTION MANAGER** DCI GROUP

220 SE 6th STREET, SUITE 200

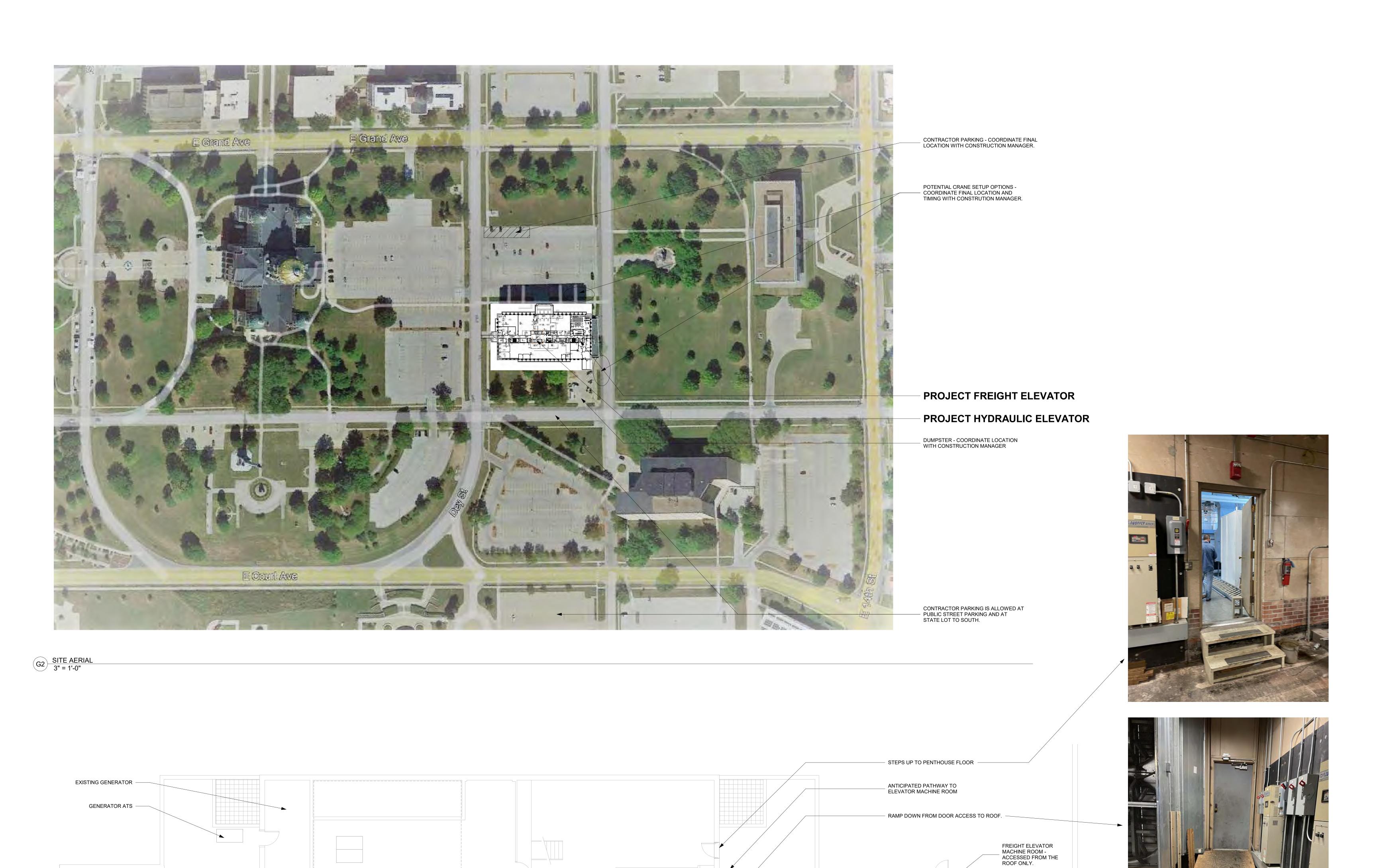
DES MOINES, IA 50309

**MECHANICAL ENGINEER** KCL ENGINEERING 300 4th STREET WEST DES MOINES, IA 50317

KCL ENGINEERING 300 4th STREET WEST DES MOINES, IA 50317

**ELECTRICAL ENGINEER** 

**ELEVATOR CONSULTANT** LERCH BATES 7625 GOLDEN TRIANGLE DRIVE, SUITE T EDEN PRAIRIE, MN 55344



1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 21 | 22 | 23 | 24 | 25

100 Court Ave., Suite 100 Des Moines, IA 50309 P: 515-309-0722

www.opnarchitects.com All reports, plans, specifications, computer files, field data, notes and other documents and instruments prepared by OPN Architects, Inc. as instruments of service shall remain the property of OPN Architects, Inc. OPN Architects, Inc. shall retain all common law, statutory and other reserved sight including the compressible theoretic plant. rights, including the copyright thereto.

> Owner STATE OF IOWA 109 SE 13TH STREET DES MOINES, IA 50319

© 2025 OPN Architects, Inc.

LUCAS BUILDING ELEVATOR MOD. 321 E. 12th Street DES MOINES, IA 50319

CONSTRUCTION MANAGER DCI GROUP 220 SE 6TH STREET, SUITE 200

DES MOINES, IA 50309 ELEVATOR CONSULTANT **LERCH BATES** 

7625 GOLDEN TRIANGLE DRIVE, EDEN PRAIRIE, MN 55344 Mechanical Engineer

300 4TH STREET WEST DES MOINES, IA 50317 Electrical Engineer

KCL ENGINEERING

KCL ENGINEERING 300 4TH STREET WEST DES MOINES, IA 50317

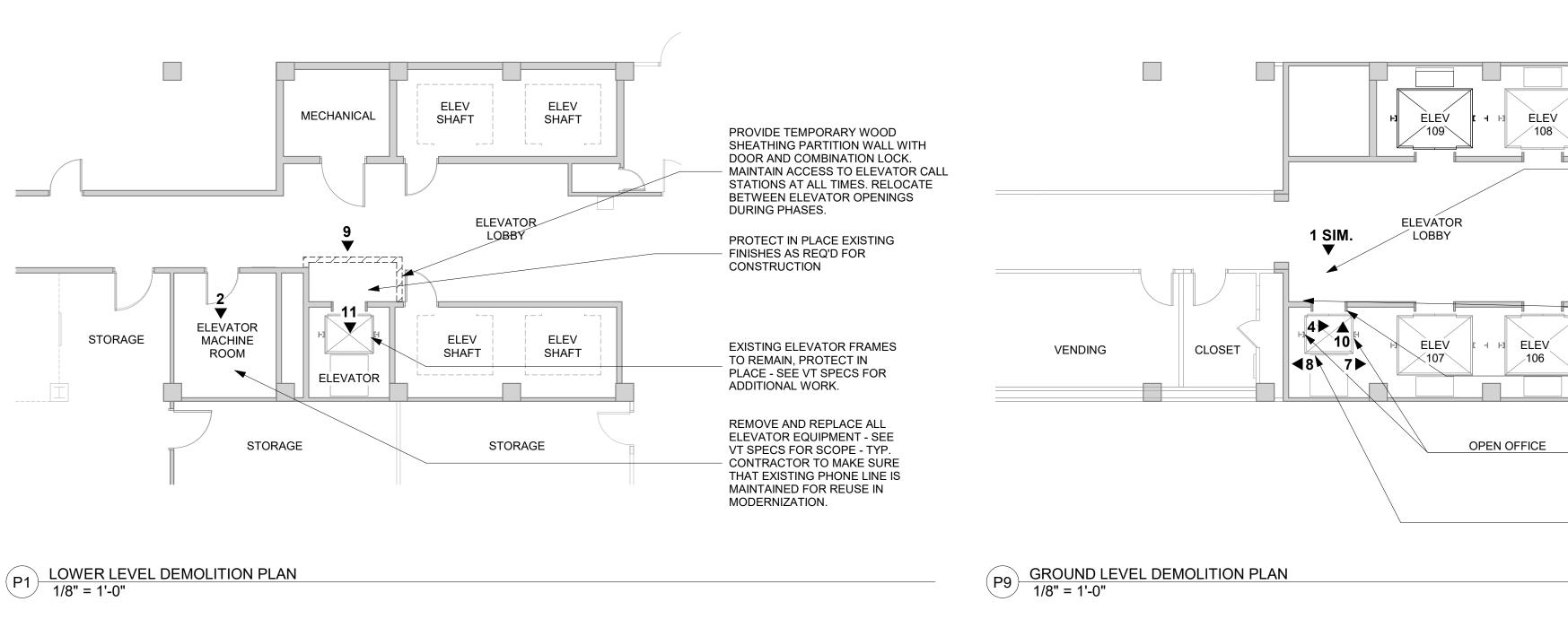
24850000

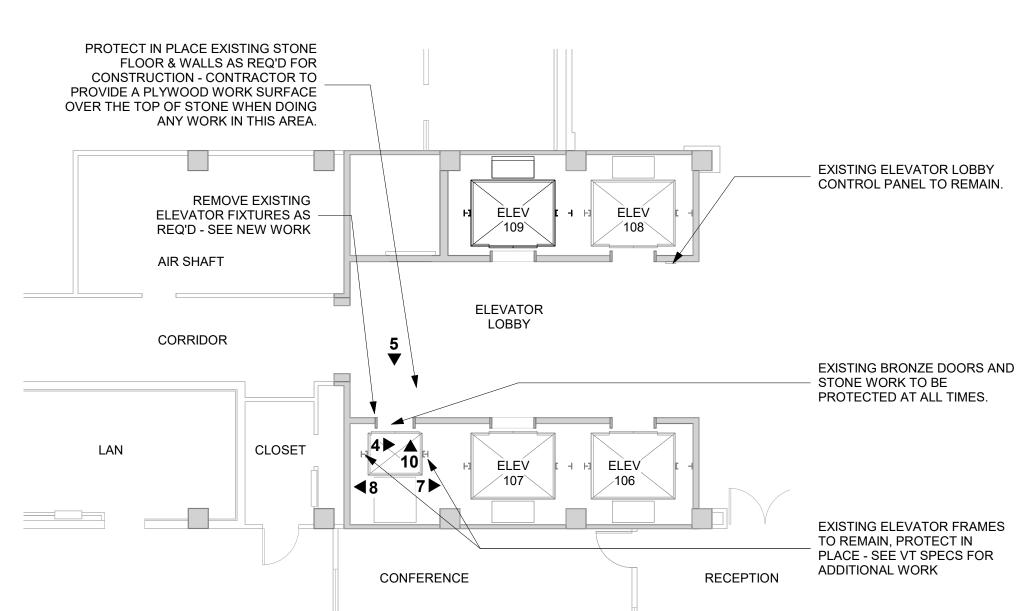
ROOF ACCESS -CRANE DROP ZONE

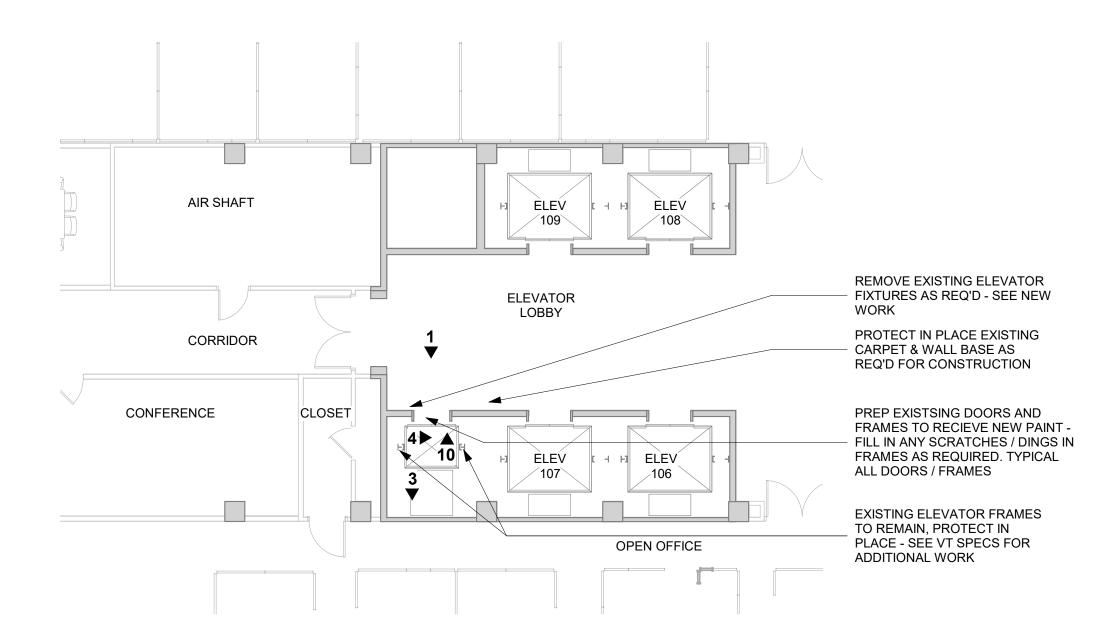
Sheet Name SITE LOGISTICS PLANS

Sheet Number

AG002.5







1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 21 | 22 | 23 | 24 | 25

J1) LEVEL 2 DEMOLITION FLOOR PLAN

1/8" = 1'-0"

PROTECT IN PLACE EXISTING

REQ'D FOR CONSTRUCTION -

PLASTIC OVER CARPET AND

LAY DOWN A PLYWOOD WORK

REMOVE EXISTING ELEVATOR

PREP EXISTING DOORS AND

ALL DOORS / FRAMES

ADDITIONAL WORK

FRAMES TO RECEIVE NEW PAINT -

FRAMES AS REQUIRED. TYPICAL

EXISTING ELEVATOR FRAMES

PLACE - SEE VT SPECS FOR

REUSE THE EXISTING CARD

CONTRACTOR TO SALVAGE AND

READERS IN NEW ELEVATOR CABS.

REMOVE AND PROVIDE ALL NEW

CABLING FOR REINSTALLATION.

TO REMAIN, PROTECT IN

FILL IN ANY SCRATCHES / DINGS IN

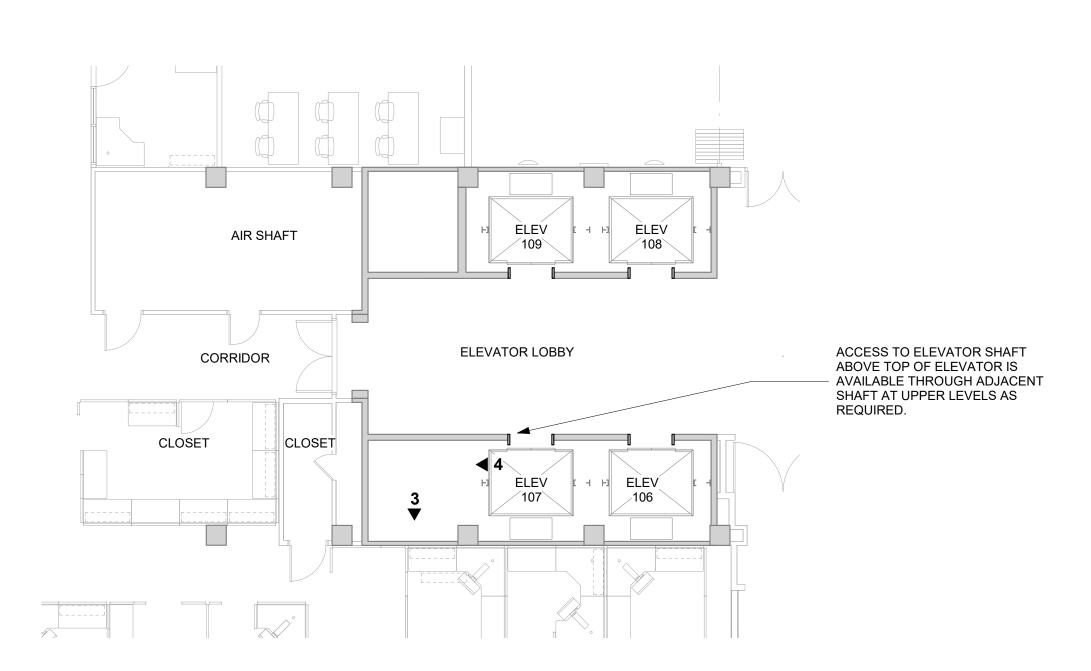
FIXTURES AS REQ'D - SEE NEW WORK

CONTRACTOR TO PROVIDE

SURFACE OVER THE TOP.

CARPET & WALL BASE AS

P16 LEVEL 1 DEMOLITION FLOOR PLAN 1/8" = 1'-0"



C9 LEVEL 6 DEMOLITION FLOOR PLAN
1/8" = 1'-0"

1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 22 | 23 | 24 **GENERAL NOTES** 

IMMEDIATELY.

- 1. IDENTIFICATION AND/OR ABATEMENT OF HAZARDOUS MATERIALS IS NOT PART OF THIS SCOPE OF WORK. IF
- ASBESTOS OR OTHER HAZARDOUS MATERIALS ARE ENCOUNTERED, THE CONTRACTOR SHALL NOTIFY THE Des Moines, IA 50309 CONSTRUCTION MANAGER P: 515-309-0722 REMOVE LOOSE PAINT AND www.opnarchitects.com
- MISCELLANEOUS HANGING OBJECTS FROM WALLS AND CEILINGS AT ALL AREAS TO RECEIVE NEW FINISHES. 3. OPENING IN THE EXISTING STRUCTURE SMALLER THAN 12" IN ANY DIRECTION ARE NOT IDENTIFIED ON THESE DRAWINGS. SUB-CONTRACTORS SHALL BE RESPONSIBLE FOR PROVIDING OPENINGS SMALLER THAN 12" AS REQUIRED FOR INSTALLATION
- OF THEIR WORK. 4. OPENINGS IN THE EXISTING STRUCTURE SHALL NOT BE MADE WITHOUT PRIOR APPROVAL OF THE STRUCTURAL ENGINEER. 5. PATCH AND REPAIR ALL EXISTING FLOOR SLABS AND WALL SURFACES DAMAGED FROM DEMOLITION OR
- PRIOR USE. 6. PATCH ALL AREAS OF ELECTRICAL AND MECHANICAL DEMOLITION THAT WILL NOT BE REUSED. PATCH TO MATCH FIRE RATING OF EXISTING WALL CONSTRUCTION.
- 7. CONTRACTOR TO FIELD VERIFY ALL EXISTING DIMENSIONS AND CONDITIONS. IN THE EVENT OF A DISCREPANCY BETWEEN THE DRAWINGS AND THE EXISTING CONDITIONS, NOTIFY THE ARCHITECT BEFORE PROCEEDING.
- 8. DO NOT REMOVE ANY ITEMS WHICH JEOPARDIZE THE STRUCTURAL INTEGRITY OF THE BUILDING. IF HIDDEN ELEMENTS OR DETERIORATED ELEMENTS ARE ENCOUNTERED, NOTIFY THE ARCHITECT IMMEDIATELY. 9. EXISTING BUILDING IS TO REMAIN WEATHER-TIGHT DURING ALL
- DEMOLITION ACTIVITIES. 10. REFER TO CONSULTANT DRAWINGS FOR ADDITIONAL DEMOLITION OF OTHER DISCIPLINES. 11. PROTECT ALL ADJACENT AREAS AND
- ITEMS "TO REMAIN" DURING DEMOLITION/CONSTRUCTION. REPAIR/REPLACE ALL ITEMS DAMAGED DURING CONSTRUCTION. 12. EXISTING BUILDING CONDITIONS SHOWN ON THESE DRAWINGS ARE
- DERIVED FROM DRAWINGS OF THE ORIGINAL BUILDING AND FROM LIMITED FIELD OBSERVATION. 13. INDICATED EXISTING BUILDING CONDITIONS ARE ASSUMED TO BE REPRESENTATIVE OF THE ACTUAL

CONSTRUCTION OF THE BUILDING.

LOCAL CONDITIONS MAY VARY. 14. THE CONTRACTOR SHALL PROVIDE AND MAINTAIN ADDITIONAL MEANS OF EGRESS AS NEEDED AS A RESULT OF CONSTRUCTION SEQUENCING AND/OR REGULATORY REQUIREMENTS.

**KEYNOTE LEGEND** 

# EXISTING CONDITION IMAGE REFERENCE - SEE AD102

100 Court Ave., Suite 100

All reports, plans, specifications, computer files, field data,

notes and other documents and instruments prepared by

shall retain all common law, statutory and other reserved

**LUCAS BUILDING ELEVATOR MOD.** 

220 SE 6TH STREET, SUITE 200

7625 GOLDEN TRIANGLE DRIVE,

EDEN PRAIRIE, MN 55344

WEST DES MOINES, IA 50317

WEST DES MOINES, IA 50317

DES MOINES, IA 50309

rights, including the copyright thereto.

© 2025 OPN Architects, Inc.

STATE OF IOWA

109 SE 13TH STREET

321 E. 12th Street

CONSTRUCTION MANAGER

ELEVATOR CONSULTANT

LERCH BATES

Mechanical Engineer

KCL ENGINEERING

300 4TH STREET

Electrical Engineer

KCL ENGINEERING

300 4TH STREET

DCI GROUP

DES MOINES, IA 50319

DES MOINES, IA 50319

OPN Architects, Inc. as instruments of service shall remain the property of OPN Architects, Inc. OPN Architects, Inc.

OPN Project No. 24850000

Key Plan

Revision Description

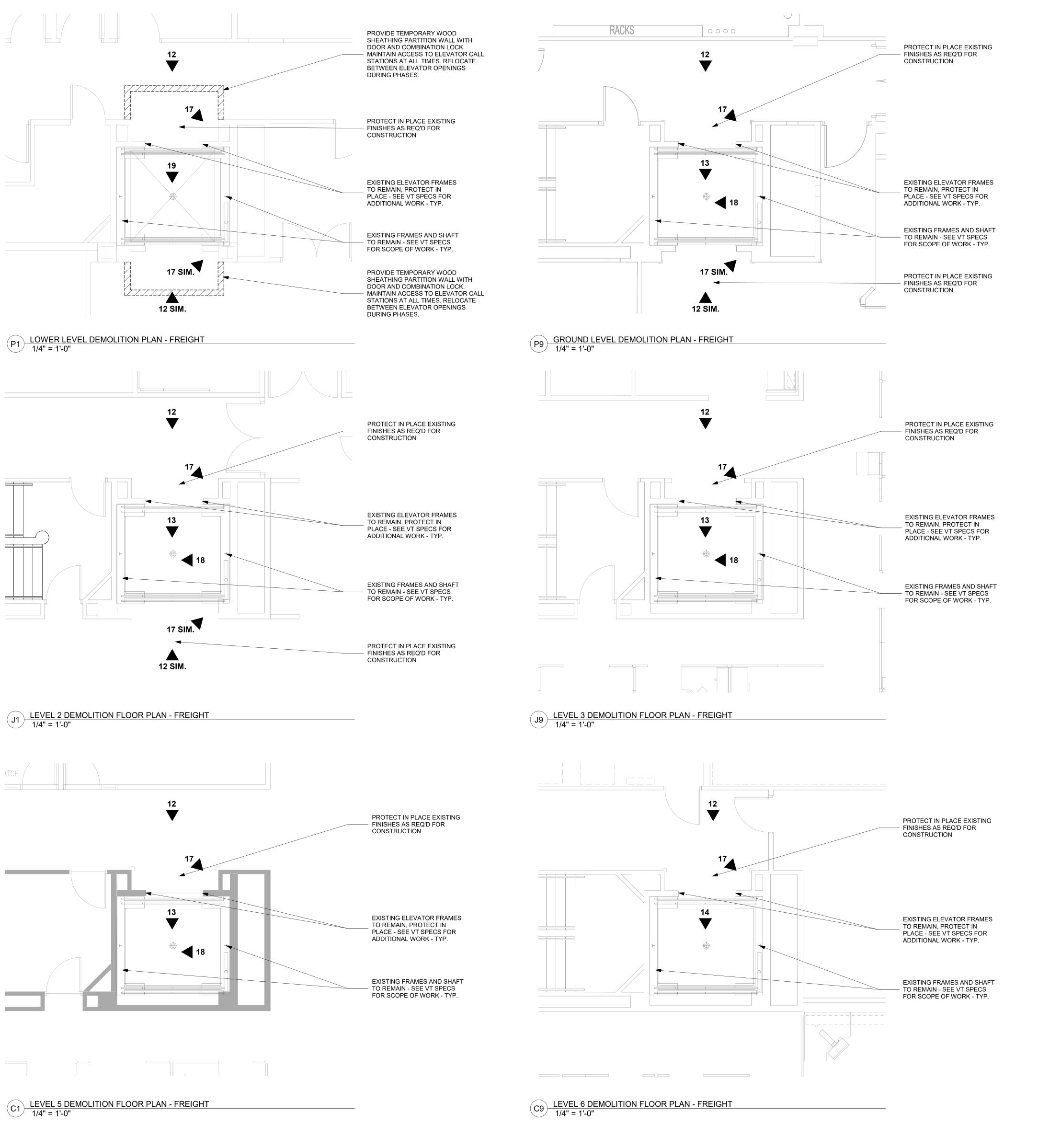
Sheet Issue Date

**DEMO FLOOR PLANS** 

Sheet Name

Sheet Number

**AD100.5** 

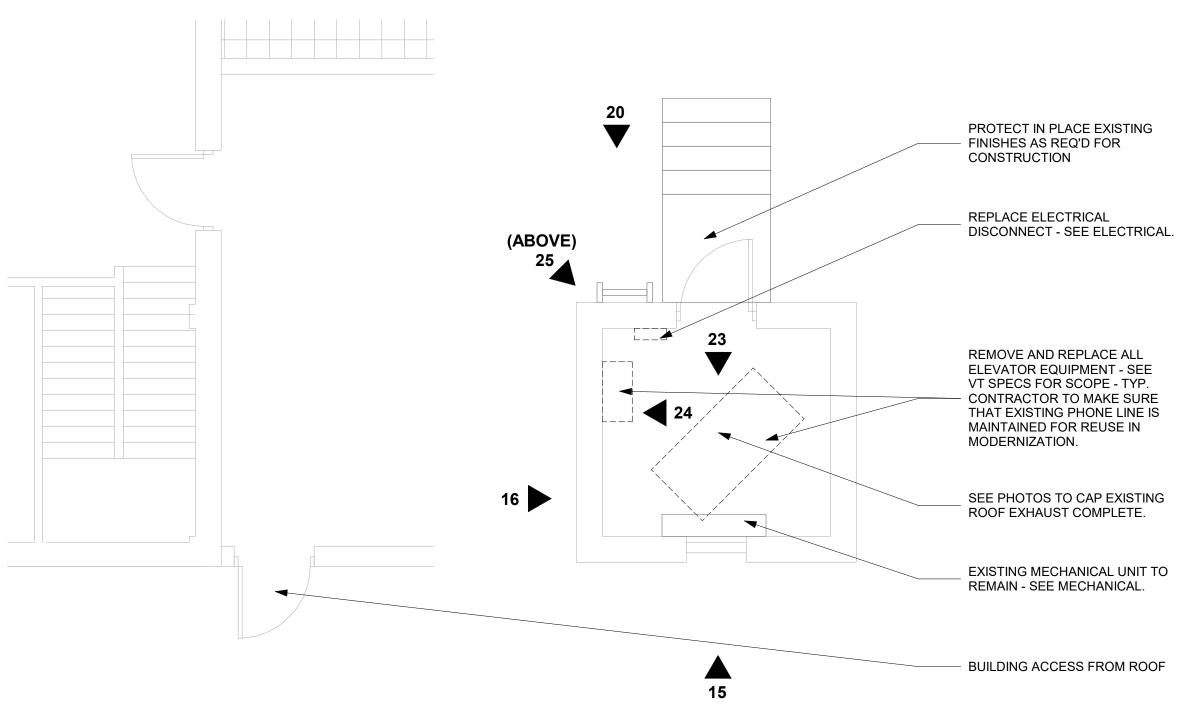


1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21

1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17

CONTRACTOR SHALL NOTIFY THE CONSTRUCTION MANAGER IMMEDIATELY. 2. REMOVE LOOSE PAINT AND MISCELLANEOUS HANGING OBJECTS FROM WALLS AND CEILINGS AT ALL AREAS TO RECEIVE NEW FINISHES. 3. OPENING IN THE EXISTING STRUCTURE SMALLER THAN 12" IN ANY DIRECTION ARE NOT IDENTIFIED ON THESE PROTECT IN PLACE EXISTING DRAWINGS. SUB-CONTRACTORS FINISHES AS REQ'D FOR SHALL BE RESPONSIBLE FOR CONSTRUCTION PROVIDING OPENINGS SMALLER THAN 12" AS REQUIRED FOR INSTALLATION OF THEIR WORK. 4. OPENINGS IN THE EXISTING STRUCTURE SHALL NOT BE MADE WITHOUT PRIOR APPROVAL OF THE STRUCTURAL ENGINEER. 5. PATCH AND REPAIR ALL EXISTING FLOOR SLABS AND WALL SURFACES DAMAGED FROM DEMOLITION OR PRIOR USE. 6. PATCH ALL AREAS OF ELECTRICAL AND MECHANICAL DEMOLITION THAT EXISTING ELEVATOR FRAMES WILL NOT BE REUSED. PATCH TO TO REMAIN, PROTECT IN MATCH FIRE RATING OF EXISTING PLACE - SEE VT SPECS FOR WALL CONSTRUCTION. ADDITIONAL WORK - TYP. 7. CONTRACTOR TO FIELD VERIFY ALL EXISTING DIMENSIONS AND CONDITIONS. IN THE EVENT OF A DISCREPANCY BETWEEN THE DRAWINGS AND THE EXISTING CONDITIONS, NOTIFY THE ARCHITECT BEFORE PROCEEDING. 8. DO NOT REMOVE ANY ITEMS WHICH EXISTING FRAMES AND SHAFT JEOPARDIZE THE STRUCTURAL TO REMAIN - SEE VT SPECS INTEGRITY OF THE BUILDING. IF FOR SCOPE OF WORK - TYP. HIDDEN ELEMENTS OR DETERIORATED ELEMENTS ARE ENCOUNTERED, NOTIFY THE ARCHITECT IMMEDIATELY. 9. EXISTING BUILDING IS TO REMAIN WEATHER-TIGHT DURING ALL DEMOLITION ACTIVITIES. 10. REFER TO CONSULTANT DRAWINGS FOR ADDITIONAL DEMOLITION OF OTHER DISCIPLINES. P16 LEVEL 1 DEMOLITION FLOOR PLAN - FREIGHT 11. PROTECT ALL ADJACENT AREAS AND ITEMS "TO REMAIN" DURING DEMOLITION/CONSTRUCTION. DURING CONSTRUCTION. 12. EXISTING BUILDING CONDITIONS SHOWN ON THESE DRAWINGS ARE DERIVED FROM DRAWINGS OF THE FIELD OBSERVATION. 13. INDICATED EXISTING BUILDING PROTECT IN PLACE EXISTING - FINISHES AS REQ'D FOR CONSTRUCTION OF THE BUILDING. CONSTRUCTION LOCAL CONDITIONS MAY VARY. 14. THE CONTRACTOR SHALL PROVIDE AND MAINTAIN ADDITIONAL MEANS OF EGRESS AS NEEDED AS A RESULT OF CONSTRUCTION SEQUENCING AND/OR REGULATORY REQUIREMENTS. **EXISTING ELEVATOR FRAMES** TO REMAIN, PROTECT IN PLACE - SEE VT SPECS FOR ADDITIONAL WORK - TYP.

**KEYNOTE LEGEND** # EXISTING CONDITION IMAGE REFERENCE - SEE AD102 EXISTING FRAMES AND SHAFT TO REMAIN - SEE VT SPECS FOR SCOPE OF WORK - TYP. J16 LEVEL 4 DEMOLITION FLOOR PLAN - FREIGHT 1/4" = 1'-0" CONSTRUCTION



UPPER PENTHOUSE DEMOLITION FLOOR PLAN - FREIGHT
1/4" = 1'-0"

100 Court Ave., Suite 100

Des Moines, IA 50309 P: 515-309-0722 www.opnarchitects.com

**GENERAL NOTES** 

1. IDENTIFICATION AND/OR ABATEMEN OF HAZARDOUS MATERIALS IS NOT PART OF THIS SCOPE OF WORK. IF ASBESTOS OR OTHER HAZARDOUS MATERIALS ARE ENCOUNTERED, THE

> All reports, plans, specifications, computer files, field data, notes and other documents and instruments prepared by OPN Architects, Inc. as instruments of service shall remain the property of OPN Architects, Inc. OPN Architects, Inc. shall retain all common law, statutory and other reserved rights, including the copyright thereto. © 2025 OPN Architects, Inc.

STATE OF IOWA 109 SE 13TH STREET DES MOINES, IA 50319

**LUCAS BUILDING ELEVATOR MOD.** 321 E. 12th Street DES MOINES, IA 50319

CONSTRUCTION MANAGER DCI GROUP 220 SE 6TH STREET, SUITE 200 DES MOINES, IA 50309

ELEVATOR CONSULTANT LERCH BATES 7625 GOLDEN TRIANGLE DRIVE,

EDEN PRAIRIE, MN 55344 Mechanical Engineer KCL ENGINEERING 300 4TH STREET

WEST DES MOINES, IA 50317 REPAIR/REPLACE ALL ITEMS DAMAGED Electrical Engineer KCL ENGINEERING

ORIGINAL BUILDING AND FROM LIMITED 300 4TH STREET WEST DES MOINES, IA 50317 CONDITIONS ARE ASSUMED TO BE REPRESENTATIVE OF THE ACTUAL

Key Plan

Revision Description

OPN Project No. 24850000

Sheet Issue Date

Sheet Name **DEMO FLOOR PLANS** 

Sheet Number **AD101.5**  REMOVE AND REPLACE EXISTING **ELEVATOR SIGNAGE - COORDINATE** LOCATION OF NEW SIGNAGE WITH **CURRENT LOCATION - STAINLESS** STEEL FINISH. MATCH OTHER FIXTURES IN ELEVATOR LOBBY. ALL NEW FIXTURES TO BE RECESSED -

EXISTING FRAME TO REMAIN - SEE VT SPECIFICATIONS FOR FULL SCOPE OF WORK -PROTECT EXISTING METAL PANEL COVER DURING CONSTRUCTION. PREP EXISTING DOORS AND FRAMES TO RECEIVE NEW PAINT - FILL IN ANY SCRATCHES / DINGS IN FRAMES AS REQUIRED. TYPICAL ALL DOORS / FRAMES

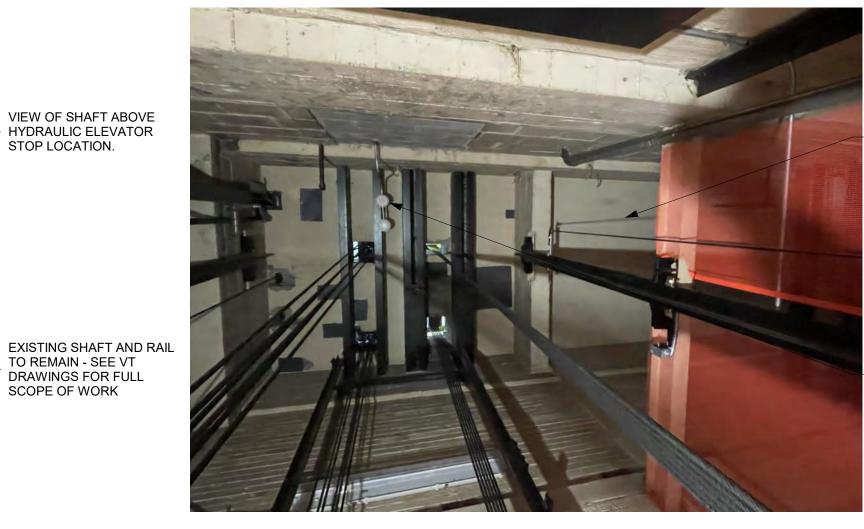
PROVIDE CUSTOM SIZED BACKPLATE FOR NEW ELEVATOR CONTROLS. SIZE AS REQ'D TO COVER EXISTING PENETRATIONS AND ACCOMMODATE NEW CONTROLS AND CODE REQUIRED SIGNAGE. PROVIDE WITH STAINLESS STEEL FIXTURES AT ALL FLOORS EXCEPT MAIN LOBBY. MATCH OTHER FIXTURES IN LOBBY.

PROTECT IN PLACE EXISTING CARPET & WALL BASE AS REQ'D FOR CONSTRUCTION - CONTRACTOR TO PROVIDE PLASTIC COVER OVER CARPET AND LAY DOWN A PLYWOOD WORK SURFACE OVER THE TOP



EXISTING SHAFT AND RAIL TO REMAIN - SEE VT DRAWINGS FOR FULL SCOPE OF WORK

STOP LOCATION.



VIEW OF ADJACENT ELEVATOR WITH DETECTION WITHIN SPACE.

EXISTING SHAFT AND RAIL TO

REMAIN - SEE VT DRAWINGS FOR

FULL SCOPE OF WORK

VIEW OF TOP OF SHAFT

- ABOVE HYDRAULIC

ELEVATOR.

Electrical Engineer KCL ENGINEERING 300 4TH STREET WEST DES MOINES, IA 50317

WEST DES MOINES, IA 50317

100 Court Ave., Suite 100

www.opnarchitects.com

rights, including the copyright thereto.

© 2025 OPN Architects, Inc.

STATE OF IOWA

109 SE 13TH STREET

321 E. 12th Street DES MOINES, IA 50319

CONSTRUCTION MANAGER

ELEVATOR CONSULTANT

**LERCH BATES** 

Mechanical Engineer KCL ENGINEERING 300 4TH STREET

SUITE T

**DCI GROUP** 

DES MOINES, IA 50319

LUCAS BUILDING ELEVATOR MOD.

220 SE 6TH STREET, SUITE 200

7625 GOLDEN TRIANGLE DRIVE,

EDEN PRAIRIE, MN 55344

DES MOINES, IA 50309

Owner

All reports, plans, specifications, computer files, field data,

notes and other documents and instruments prepared by OPN Architects, Inc. as instruments of service shall remain the property of OPN Architects, Inc. OPN Architects, Inc. shall retain all common law, statutory and other reserved

Des Moines, IA 50309

P: 515-309-0722



REPLACE ELEVATOR SIGNALS WITH SIMILAR CUSTOM BRONZE SIGNAL LAYOUT.

PROVIDE CUSTOM SIZED BRONZE BACKPLATE FOR NEW ELEVATOR CONTROLS AT MAIN LOBBY. SIZE TO MATCH EXISTING LOCATION AND SIZE TO COVER EXISTING PENETRATIONS AND ACCOMMODATE - NEW CONTROLLERS. AT MAIN LOBBY, COLOR TO BE BRONZE TO MATCH EXISTING ELEVATORS AND SHOULD INCLUDE REQUIRED SIGNAGE SIMILAR TO OTHER UNITS. ALL NEW FIXTURES TO BE RECESSED - TYP.

EXISTING BRONZE DOORS AND STONE WORK TO BE PROTECTED AT ALL



PROVIDE ALL NEW FINISHES IN
\_ ELEVATOR CAB - SEE ELEVATIONS AND VT SPECIFICATIONS.

1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 25 | 25 |

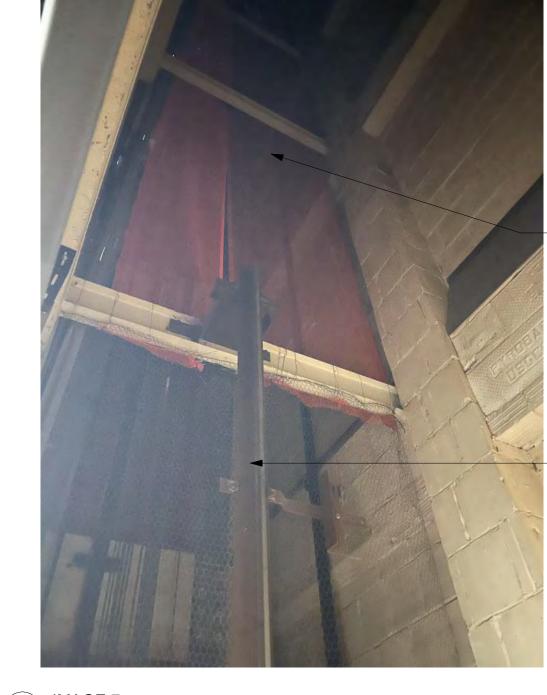
DEMO EXISTING ELEVATOR EQUIPMENT

COMPLETE AND PROVIDE NEW - SEE VT - SPECIFICATIONS FOR COMPLETE

REMOVE, SALVAGE AND REINSTALL CARD ACCESS CONTROL. PROVIDE PATHWAYS AS REQUIRED FOR REINSTALLATION IN NEW ELEVATOR CAB.

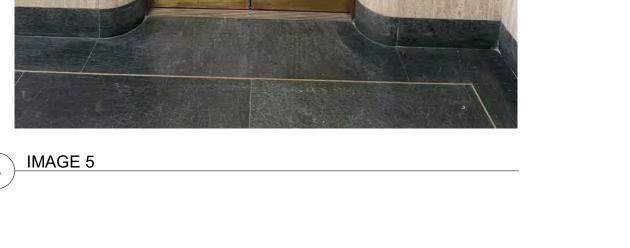
PROVIDE NEW DUAL ELEVATOR CONTROL PANEL (BRONZE FINISH) IN CAB - STYLE AND LAYOUT TO MATCH OTHER CABS IN SHARED ELEVATOR

PROVIDE NEW RESILIENT FLOORING -SEE SPECIFICATIONS.



VIEW OF SHAFT ABOVE HYDRAULIC ELEVATOR STOP LOCATION.

EXISTING RAIL TO REMAIN - SEE VT DRAWINGS FOR FULL SCOPE OF WORK

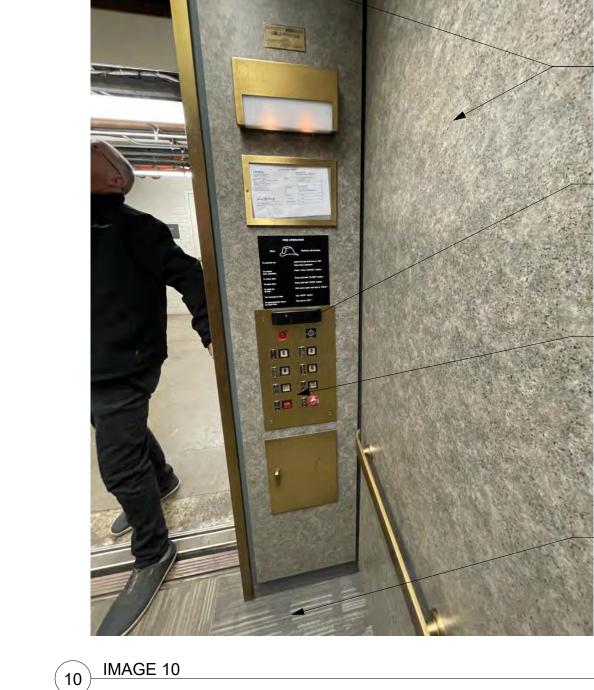


REMOVE AND REPLACE EXISTING **ELEVATOR SIGNAGE - COORDINATE** LOCATION OF NEW SIGNAGE WITH **CURRENT LOCATION - STAINLESS** STEEL FINISH. ALL NEW FIXTURES TO BE RECESSED -

EXISTING FRAME TO REMAIN - SEE VT DRAWINGS FOR FULL SCOPE OF WORK -PROTECT EXISTING METAL PANEL COVER DURING CONSTRUCTION. PREP EXISTING DOORS AND FRAMES TO RECEIVE NEW PAINT - FILL IN ANY SCRATCHES / DINGS IN FRAMES AS REQUIRED. TYPICAL ALL DOORS / FRAMES

PROVIDE CUSTOM SIZED BACKPLATE FOR NEW ELEVATOR CONTROLS. SIZE AS REQ'D TO COVER EXISTING PENETRATIONS AND ACCOMMODATE NEW CONTROLS. PROVIDE WITH STAINLESS STEEL FIXTURES AT ALL FLOORS EXCEPT MAIN LOBBY.

— PROTECT IN PLACE EXISTING FINISHES.

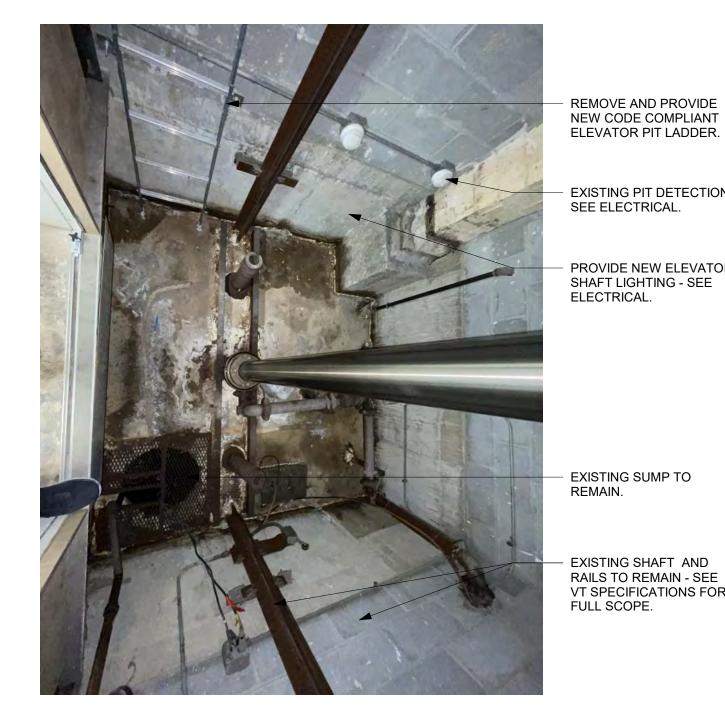


PROVIDE ALL NEW FINISHES IN ELEVATOR CAB - SEE ELEVATIONS AND VT SPECIFICATIONS.

REMOVE, SALVAGE AND REINSTALL CARD ACCESS CONTROL.

PROVIDE NEW DUAL ELEVATOR CONTROL PANEL (BRONZE FINISH) IN CAB - STYLE AND LAYOUT TO MATCH OTHER CABS IN SHARED ELEVATOR

PROVIDE NEW RESILIENT FLOORING -SEE SPECIFICATIONS.

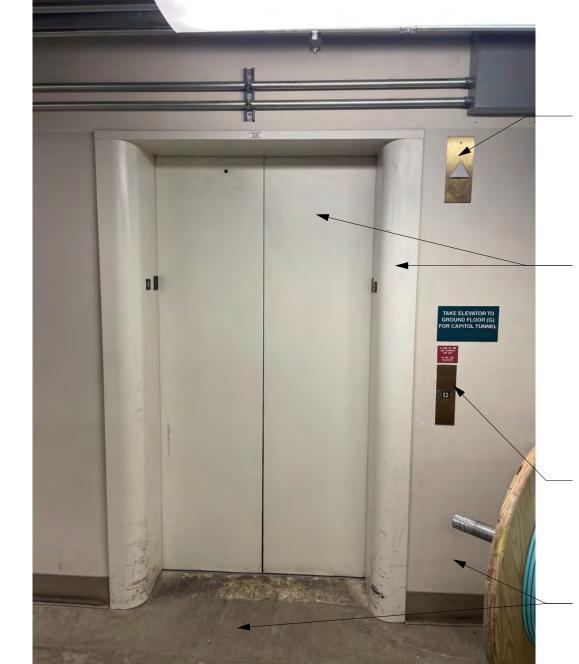


**EXISTING PIT DETECTION -**SEE ELECTRICAL.

PROVIDE NEW ELEVATOR SHAFT LIGHTING - SEE ELECTRICAL.

REMAIN. - EXISTING SHAFT AND RAILS TO REMAIN - SEE VT SPECIFICATIONS FOR FULL SCOPE.

1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 25 |



OPN Project No. 24850000

Key Plan

Revision Description

Sheet Issue Date

Sheet Name **EXISTING CONDITIONS** 

Sheet Number

**AD200.5** 

03/14/2025

SPECIFICATIONS FOR DEMO ITEMS AND FOR EXISTING ELEVATOR ITEMS TO REMAIN. EXISTING STL FRAMES TO REMAIN -PROTECT IN PLACE -PAINT. PROVIDE NEW STL. DOORS - SEE VT DRAWING FOR FULL SCOPE OF WORK.

1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10

REMOVE EXISTING HALLWAY FIXTURES COMPLETE, PATCH EXISTING WALL AS REQ'D FOR NEW ELEVATOR FIXTURES. PROTECT IN PLACE ALL EXISTING LOBBY

FINISHES DURING CONSTRUCTION. PROVIDE TEMPORARY **ENCLOSURES AS** REQUIRED DURING **CONSTRUCTION TO** PROTECT WORK AND HOISTWAYS.

13 IMAGE 13



REMOVE AND REPLACE EXISTING ELEVATOR FINISHES.

SPECIFICATIONS FOR

EXISTING ELEVATOR

ITEMS TO REMAIN.

**ELEVATOR DOORS -**

FOR FULL SCOPE OF

SEE VT DRAWING

REMOVE AND

REPLACE ALL

WORK.

DEMO ITEMS AND FOR

REMOVE AND REPLACE ELEVATOR FLOOR WITH NEW STAINLESS STEEL CHECKER PLATE FLOORING.

> SPECIFICATIONS FOR DEMO ITEMS AND FOR EXISTING ELEVATOR ITEMS TO REMAIN.

REMOVE AND

REPLACE ALL

WORK.

**ELEVATOR DOORS -**

FOR FULL SCOPE OF

REPLACE CONTROL

REMOVE, SALVAGE

ACCESS CONTROL.

AS REQUIRED FOR

REINSTALLATION IN NEW ELEVATOR CAB.

REPLACE EXISTING

REPLACE ELEVATOR

FLOOR WITH NEW

STAINLESS STEEL

CHECKER PLATE FLOORING.

ELEVATOR FINISHES.

REMOVE AND

REMOVE AND

PROVIDE PATHWAYS

AND REINSTALL CARD

PANEL AND PROVIDE

FLOOR DESIGNATIONS.

SEE VT DRAWING



SPECIFICATIONS FOR DEMO ITEMS AND FOR EXISTING ELEVATOR ITEMS TO REMAIN.

EXISTING DETECTION - SEE ELECTRICAL FOR SCOPE.

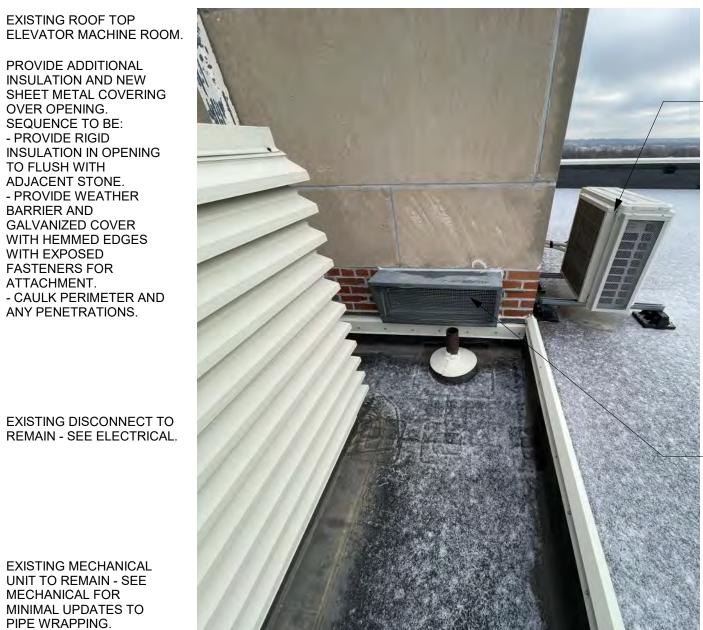
PROVIDE NEW **ELEVATOR SHAFT** LIGHTING - SEE ELECTRICAL.



PROVIDE ADDITIONAL INSULATION AND NEW SHEET METAL COVERING OVER OPENING. SEQUENCE TO BE: - PROVIDE RIGID INSULATION IN OPENING TO FLUSH WITH ADJACENT STONE. - PROVIDE WEATHER BARRIER AND GALVANIZED COVER WITH HEMMED EDGES WITH EXPOSED **FASTENERS FOR** ATTACHMENT. - CAULK PERIMETER AND ANY PENETRATIONS.

EXISTING ROOF TOP

**EXISTING MECHANICAL** UNIT TO REMAIN - SEE MECHANICAL FOR MINIMAL UPDATES TO PIPE WRAPPING.



EXISTING MECHANICAL UNIT TO REMAIN - SEE MECHANICAL FOR MINIMAL UPDATES TO PIPE WRAPPING.

PROVIDE INFILL TO

VENTING. SEQUENCE TO

SHEET METAL COVER

- FILL SHAFT WALL

DEPTH WITH RIGID

FASTENED TO INTERIOR

- FILL PERIMETER WITH

CAULKING TO SEAL OFF

- PROVIDE WEATHER

METAL COVERING WITH

EXPOSED FASTENERS.

**GALVANIZED SHEET** 

CLOSE OFF SHAFT

BE AS FOLLOWS: - AT INTERIOR OF SHAFT, PROVIDE GALVANIZED

SHAFT WALL.

INSULATION.

BARRIER AND

OPENING.

DES MOINES, IA 50319 **LUCAS BUILDING ELEVATOR MOD.** 321 E. 12th Street

100 Court Ave., Suite 100 Des Moines, IA 50309 P: 515-309-0722

www.opnarchitects.com

rights, including the copyright thereto.

© 2025 OPN Architects, Inc.

STATE OF IOWA

109 SE 13TH STREET

Owner

All reports, plans, specifications, computer files, field data, notes and other documents and instruments prepared by OPN Architects, Inc. as instruments of service shall remain the property of OPN Architects, Inc. OPN Architects, Inc. shall retain all common law, statutory and other reserved

DES MOINES, IA 50319 CONSTRUCTION MANAGER DCI GROUP 220 SE 6TH STREET, SUITE 200

DES MOINES, IA 50309 ELEVATOR CONSULTANT

LERCH BATES 7625 GOLDEN TRIANGLE DRIVE, EDEN PRAIRIE, MN 55344

Mechanical Engineer KCL ENGINEERING 300 4TH STREET

WEST DES MOINES, IA 50317

WEST DES MOINES, IA 50317

Electrical Engineer KCL ENGINEERING 300 4TH STREET

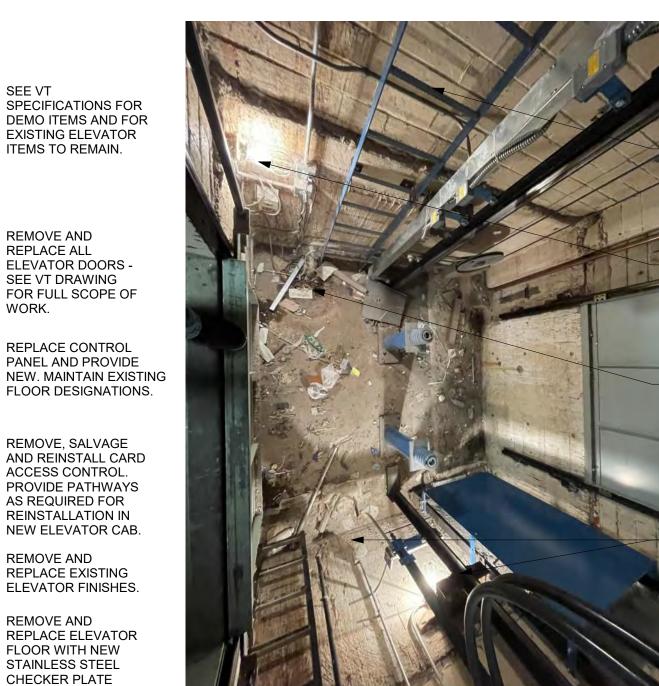


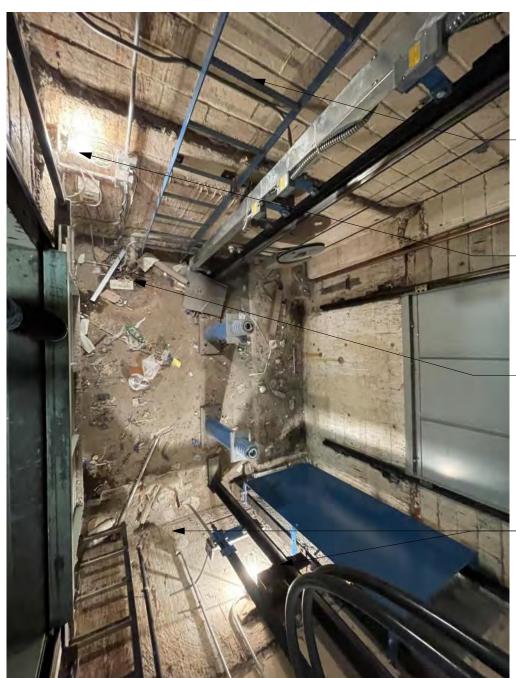
REMOVE EXISTING HALLWAY FIXTURES COMPLETE, PATCH EXISTING WALL AS REQ'D FOR NEW ELEVATOR FIXTURES.

REMOVE AND REPLACE ALL **ELEVATOR SIGNAGE** WITH NEW CODE COMPLIANT SIGNAGE.



18 IMAGE 18





- EXISTING SHAFT AND RAILS TO REMAIN - SEE VT SPECIFICATIONS FOR FULL SCOPE.

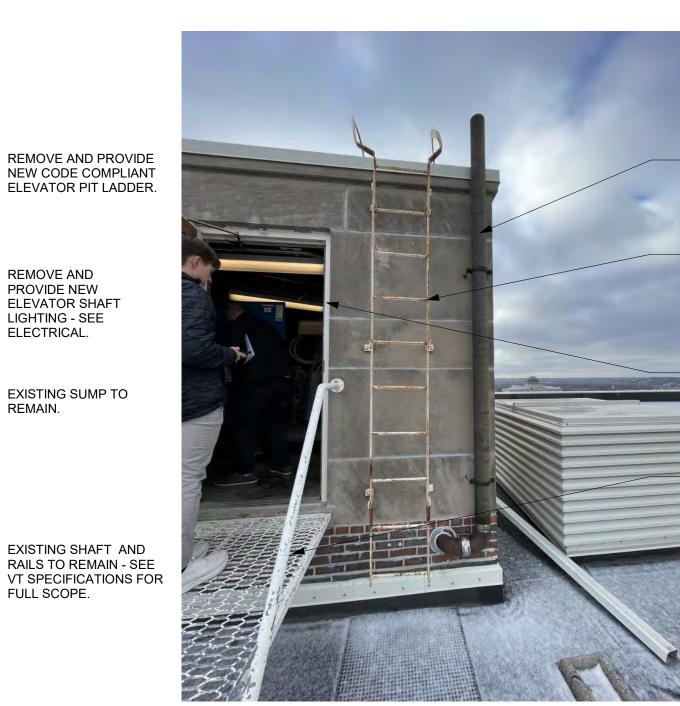
REMOVE AND PROVIDE NEW ELEVATOR SHAFT

LIGHTING - SEE

EXISTING SUMP TO

ELECTRICAL.

REMAIN.



IS PROPERLY PROTECTED IN SHAFT. EXISTING ROOF ACCESS LADDER.

EXISTING PLUMBING

REMAIN - EXISTING PIPE

VENT STACK TO

PROVIDE NEW DOOR SEALS AT PERIMETER OF EXISTING DOOR. DOOR TO REMAIN.

EXISTING ACCESS PLATFORM TO MACHINE ROOM.



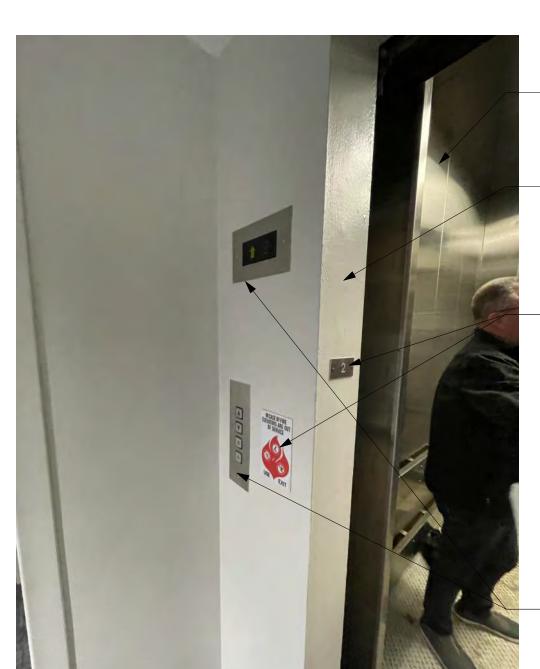
LOCATED IN ELEVATOR

- EXISTING ROOF VENT

INTENT IS TO CLOSE OFF EXHAUST VENT. PROVIDE BREAK METAL CLOSURE AT INTERIOR OF SPACE, AND FILL CAVITY WITH RIGID INSULATION AND SPRAY FOAM.

EXISTING VENT SHAFT TO BE CAPPED. PROVIDE GALVANIZED PAN CLOSURE, FILL VOID ABOVE WITH INSULATION ABOVE TO HEIGHT OF ROOF CAP. AT ROOF, REMOVE VENT COVER AND PROVIDE WEATHER BARRIER AND GALVANIZED SHEET METAL COVERING WITH EXPOSED FASTENERS.

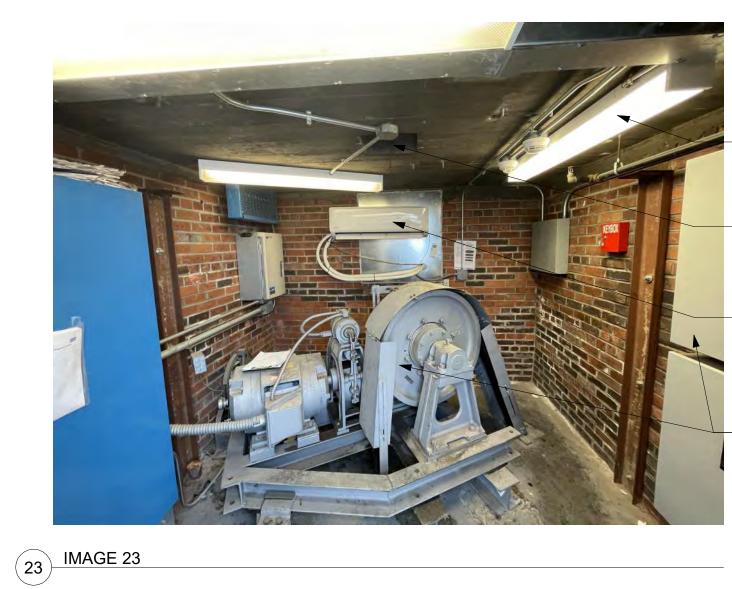
25 IMAGE 25



SPECIFICATIONS FOR DEMO ITEMS AND FOR **EXISTING ELEVATOR** ITEMS TO REMAIN. **EXISTING STL** FRAMES TO REMAIN -PROTECT IN PLACE -PAINT. PROVIDE NEW STL. DOORS - SEE VT DRAWING FOR FULL SCOPE OF WORK.

REMOVE AND REPLACE ALL **ELEVATOR SIGNAGE** WITH NEW CODE COMPLIANT SIGNAGE.

REMOVE EXISTING HALLWAY FIXTURES COMPLETE, PATCH EXISTING WALL AS REQ'D FOR NEW ELEVATOR FIXTURES.

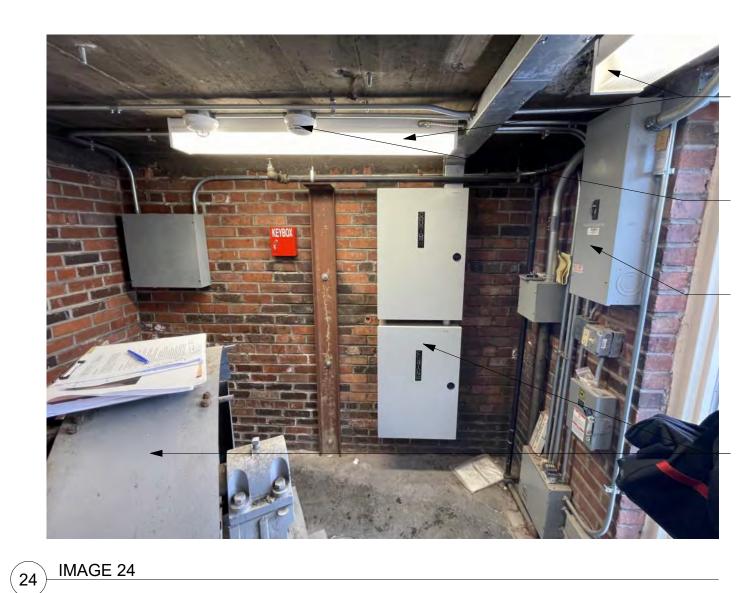


PROVIDE NEW ELECTRICAL LIGHTING -SEE ELECTRICAL.

CAP EXISTING MACHINE ROOM SHAFT -SEE CLOSE UP PICTURES.

EXISTING MECHANICAL UNIT TO

DEMO EXISTING ELEVATOR
\_ EQUIPMENT -SEE VT SPECIFICATIONS
FOR FULL SCOPE OF WORK .



20 IMAGE20

PROVIDE NEW ELECTRICAL LIGHTING -SEE ELECTRICAL.

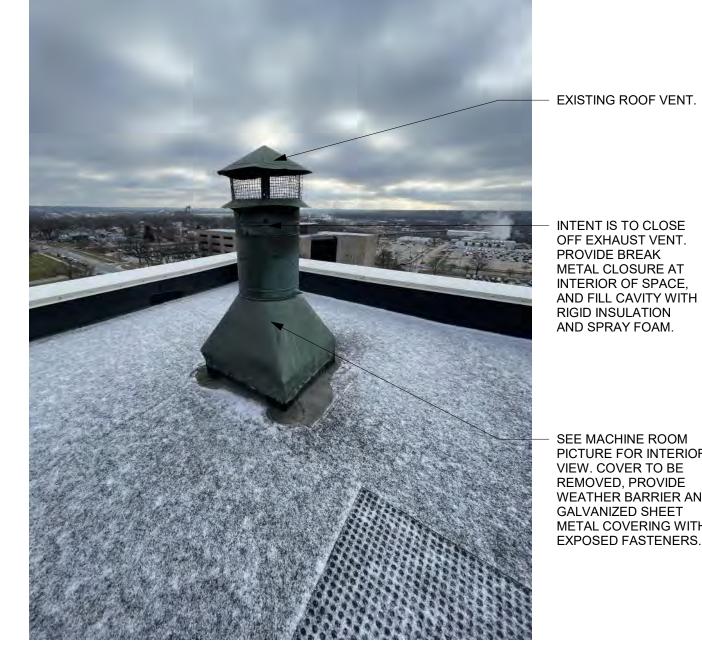
**EXISTING DETECTION - SEE** ELECTRICAL.

EXISTING ELECTRICAL DISCONNECT -SEE ELECTRICAL.

DEMO EXISTING ELEVATOR

EQUIPMENT -SEE VT SPECIFICATIONS

FOR FULL SCOPE OF WORK .



INTENT IS TO CLOSE OFF EXHAUST VENT. PROVIDE BREAK METAL CLOSURE AT INTERIOR OF SPACE, AND FILL CAVITY WITH RIGID INSULATION AND SPRAY FOAM.

SEE MACHINE ROOM PICTURE FOR INTERIOR VIEW. COVER TO BE REMOVED, PROVIDE
WEATHER BARRIER AND
GALVANIZED SHEET METAL COVERING WITH EXPOSED FASTENERS.

OPN Project No. 24850000

Sheet Name

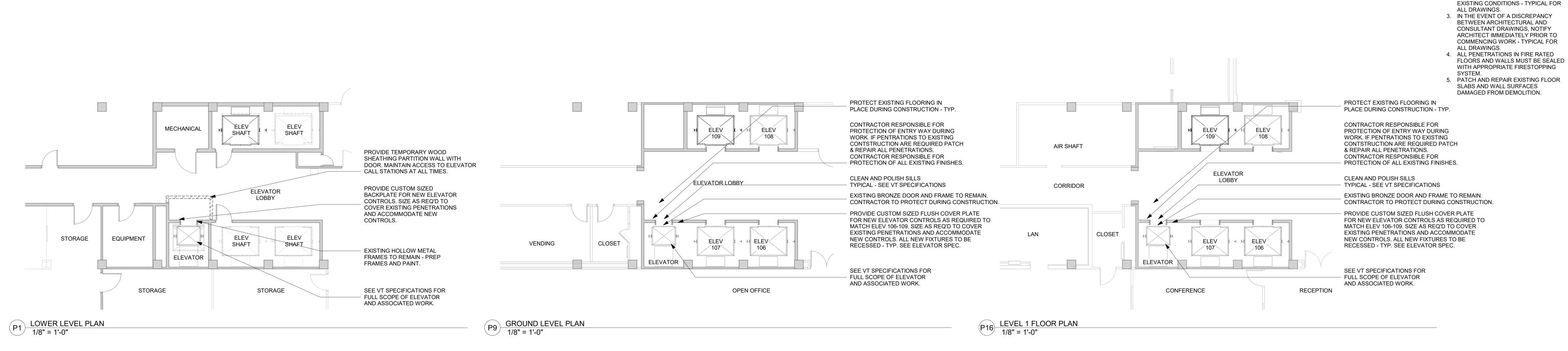
Sheet Number

Key Plan

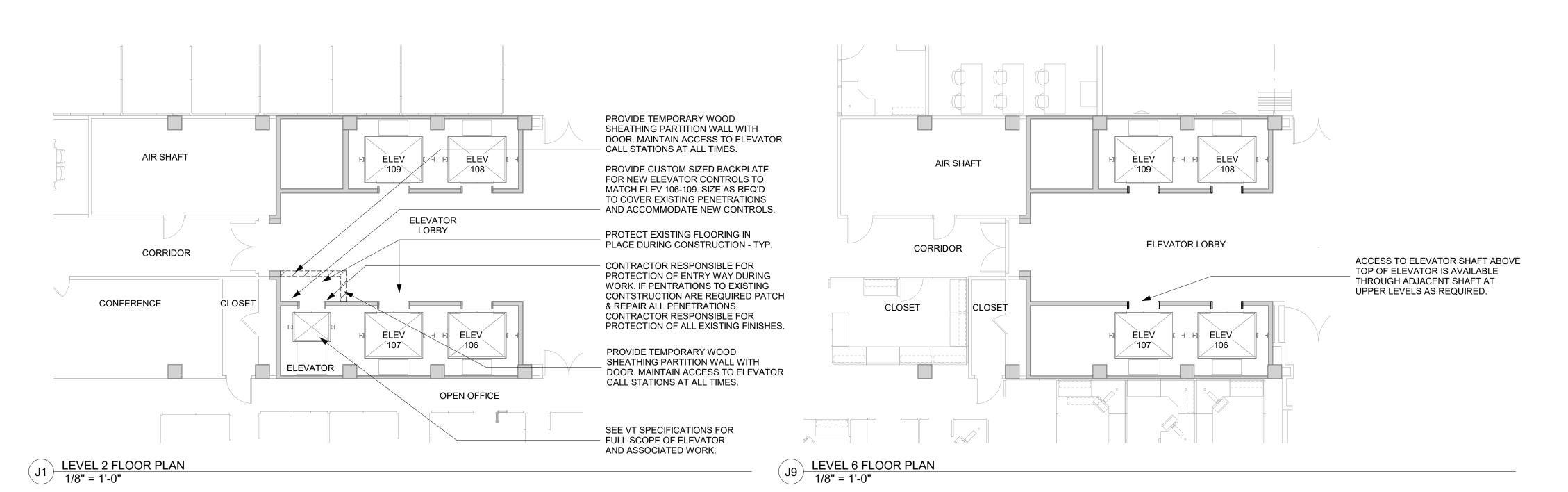
Sheet Issue Date

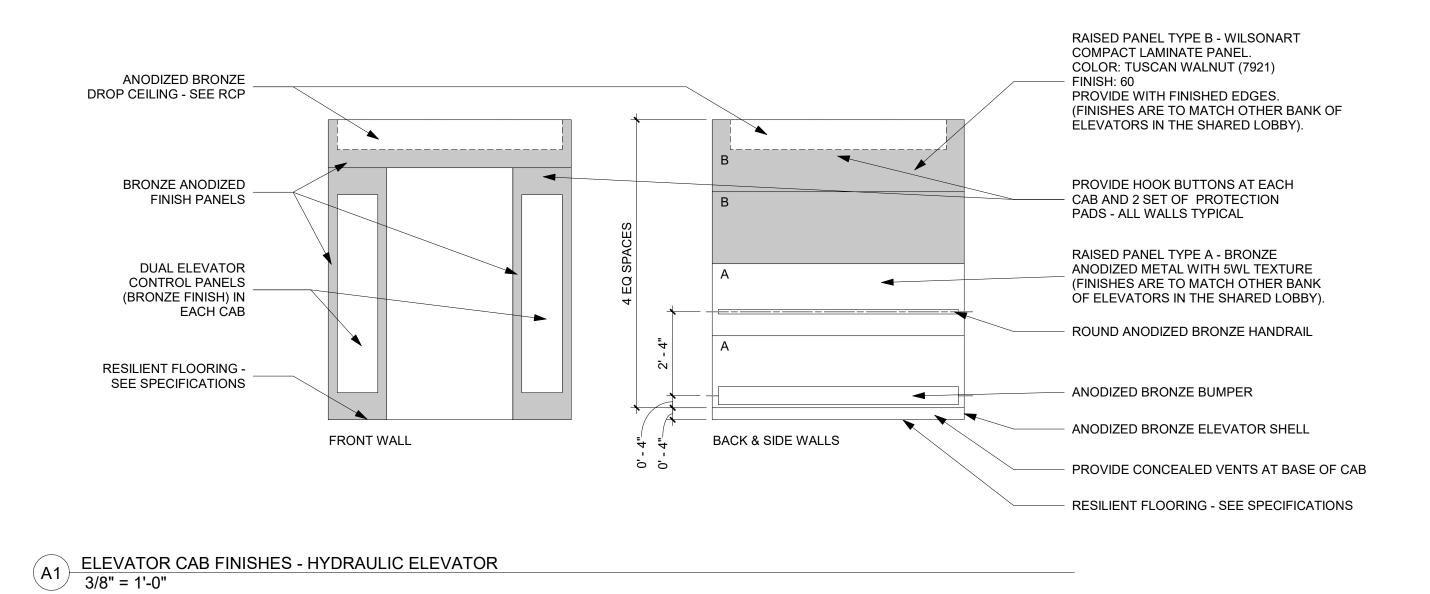
**EXISTING CONDITIONS** 

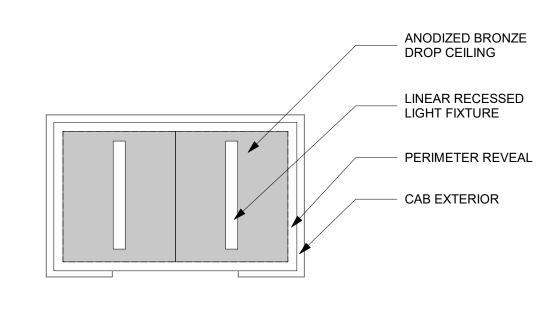
**AD201.5** 



1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 21 | 22 | 23 | 24







ELEVATOR CAB FINISHES - RCP - HYDRAULIC ELEVATOR
3/8" = 1'-0"

14 | 15 | 16 | 17 | 18 |

11 12 13

100 Court Ave., Suite 100

ROUGH MASONRY OPENING UNLESS NOTED OTHERWISE - TYPICAL FOR ALL 2. FIELD VERIFY ALL DIMENSIONS AND Des Moines, IA 50309 P: 515-309-0722

**GENERAL NOTES** 

1. DIMENSIONS ARE MEASURED FACE OF-FINISH TO FACE-OF-FINISH OR

DRAWINGS.

www.opnarchitects.com All reports, plans, specifications, computer files, field data, notes and other documents and instruments prepared by OPN Architects, Inc. as instruments of service shall remain the property of OPN Architects, Inc. OPN Architects, Inc. shall retain all common law, statutory and other reserved rights, including the copyright thereto. © 2025 OPN Architects, Inc.

STATE OF IOWA 109 SE 13TH STREET DES MOINES, IA 50319

LUCAS BUILDING ELEVATOR MOD. 321 E. 12th Street DES MOINES, IA 50319

CONSTRUCTION MANAGER **DCI GROUP** 220 SE 6TH STREET, SUITE 200

DES MOINES, IA 50309 ELEVATOR CONSULTANT

**LERCH BATES** 7625 GOLDEN TRIANGLE DRIVE, SUITE T EDEN PRAIRIE, MN 55344

KCL ENGINEERING 300 4TH STREET WEST DES MOINES, IA 50317

Mechanical Engineer

Electrical Engineer KCL ENGINEERING 300 4TH STREET WEST DES MOINES, IA 50317

Key Plan

Revision Description

OPN Project No. 24850000

Sheet Issue Date 03/14/2025

Sheet Name

**FLOOR PLANS** 

Sheet Number

A100.5

1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 21 | 22 | 23 | 24

100 Court Ave., Suite 100 Des Moines, IA 50309 P: 515-309-0722

www.opnarchitects.com All reports, plans, specifications, computer files, field data, notes and other documents and instruments prepared by OPN Architects, Inc. as instruments of service shall remain the property of OPN Architects, Inc. OPN Architects, Inc. shall retain all common law, statutory and other reserved rights, including the copyright thereto. © 2025 OPN Architects, Inc.

STATE OF IOWA 109 SE 13TH STREET DES MOINES, IA 50319

**LUCAS BUILDING ELEVATOR MOD.** 321 E. 12th Street DES MOINES, IA 50319

CONSTRUCTION MANAGER **DCI GROUP** 220 SE 6TH STREET, SUITE 200 DES MOINES, IA 50309

ELEVATOR CONSULTANT **LERCH BATES** 7625 GOLDEN TRIANGLE DRIVE, SUITE T

EDEN PRAIRIE, MN 55344 Mechanical Engineer KCL ENGINEERING 300 4TH STREET

Electrical Engineer KCL ENGINEERING 300 4TH STREET

Key Plan

OPN Project No. 24850000

03/14/2025 Sheet Name

**FLOOR PLANS** 

Sheet Number A101.5

#### **MECHANICAL - GENERAL NOTES**

- COORDINATE MECHANICAL AND ELECTRICAL WORK WITH ALL OTHER TRADES. BEGIN INSTALLATION AND ROUGH-IN AFTER COORDINATION WITH ALL TRADES ASSOCIATED WITH THE INSTALLATION IS COMPLETE. COORDINATE BUILDING STRUCTURE, ARCHITECTURAL ASSEMBLIES, SHEET METAL, ALL PIPING SYSTEMS, LIGHT FIXTURES, CONDUITS, CABLE TRAYS, ETC. REFER TO ALL GENERAL, MECHANICAL, AND ELECTRICAL DRAWINGS AND SPECIFICATIONS FOR THIS PROJECT. CONTRACTOR IS RESPONSIBLE FOR REWORK ASSOCIATED WITH FAILURE TO COORDINATE.
- INCORPORATE MECHANICAL SPECIFICATIONS, DRAWINGS, STATE AND LOCAL CODES, AND OWNER STANDARDS INTO WORK.
- REFER TO ARCHITECTURAL SPECIFICATIONS FOR THROUGH-PENETRATION FIRESTOPPING AND TO ARCHITECTURAL CODE PLAN FOR FIRE RATED WALLS, FLOORS, AND CEILINGS, EACH TRADE IS RESPONSIBLE TO FIRESTOP PENETRATIONS THROUGH RATED ASSEMBLIES.
- EACH TRADE IS RESPONSIBLE FOR MAKING PENETRATIONS WHERE REQUIRED IN EXISTING WALLS, FLOORS, CEILINGS, AND ROOFS. MAKE PENETRATIONS NEAT. PATCH, CONCEAL, OR
- COVER EXPOSED WALL PENETRATIONS WITH ESCUTCHEONS OR SHEET METAL AS APPROPRIATE.
- CAULK ALL CONCEALED AND EXPOSED PIPING AND DUCT WALL PENETRATIONS TO PREVENT NOISE TRANSFER BETWEEN SPACES.
- ON COMPLETION OF THE INSTALLATION, COOPERATE WITH THE OWNER TO PROVIDE TESTING, ADJUSTING, AND BALANCING TO OBTAIN PROPER OPERATION OF ALL EQUIPMENT AND SYSTEMS. PROVIDE ALL FACILITIES AND EQUIPMENT AND COMPLETE ALL TESTS REQUIRED FOR ADJUSTMENTS AND BALANCING TO ESTABLISH THE PROPER PERFORMANCE
- PROVIDE WARRANTIES FOR ALL EQUIPMENT AND INSTALLATION PER THE CONTRACT DOCUMENTS. CONDITIONING REFRIGERATION SYSTEMS SHALL BE WARRANTED FOR A MINIMUM OF 5 YEARS, PARTS ONLY, NON-PRORATED, FROM THE DATE OF OCCUPANCY OR SUBSTANTIAL COMPLETION, OR WHICHEVER OCCURS FIRST, THE WARRANTY SHALL COVER COMPRESSORS, EVAPORATORS, CONDENSER COILS, HIGH AND LOW SIDE PIPING, AND PIPING SPECIALTIES INCLUDING EXPANSION AND SOLENOID VALVES, RELIEF VALVES, FILTER-DRYER, AND SIGHT GLASSES, PRESSURE GAUGES AND PRESSURE SWITCHES ARE NOT UNDER THE EXTENDED WARRANTY EXCEPT FOR LOSS OF REFRIGERANT AND CONSEQUENTIAL DAMAGE TO THE SYSTEM WHICH WILL BE AN EXTENDED WARRANTY OBLIGATION. ALL DEFECTS THAT BECOME APPARENT WITHIN THE WARRANTY PERIOD SHALL BE REPAIRED BY THE MECHANICAL CONTRACTOR AS DIRECTED BY THE ENGINEER THROUGH THE OWNER'S REPRESENTATIVE. WARRANTY DOES NOT OBLIGATE THE MECHANICAL CONTRACTOR TO REPAIR DAMAGE RESULTING FROM THE OWNER'S ACCIDENT, IMPROPER OPERATION, OR FAILURE TO PROVIDE MAINTENANCE, WARRANTY COVERS DEFECTIVE MATERIAL AND INSTALLATION. REFER TO SPECIFICATIONS FOR ADDITIONAL DETAILS AND OTHER WARRANTY INFORMATION.

#### **MECHANICAL – DEMOLITION NOTES**

- MECHANICAL DEMOLITION DRAWINGS SHOWING EXISTING CONDITIONS HAVE BEEN PREPARED BASED ON NON-DESTRUCTIVE FIELD OBSERVATION AND AS-BUILT DRAWINGS PROVIDED BY THE OWNER. FIELD VERIFY EXISTING SYSTEMS BEFORE BEGINNING WORK. NOTIFY ARCHITECT/ENGINEER IF EXISTING CONDITIONS ARE MATERIALLY DIFFERENT THAN THOSE SHOWN ON THE PLANS.
- BE FAMILIAR WITH EXISTING MECHANICAL SYSTEMS THAT WILL BE AFFECTED BY THE DEMOLITION WORK. OBTAIN PERMISSION FROM THE OWNER'S REPRESENTATIVE TO SHUT OFF SERVICES OR SYSTEMS THAT AFFECT AREAS BEYOND THE LIMITS OF THE IMMEDIATE DEMOLITION AREA. INFORM THE OWNER'S REPRESENTATIVE OF THE REASON FOR AND DURATION OF THE SHUTDOWN. MINIMIZE IMPACT TO OTHER AREAS. PROCEED WITH THE SHUT-DOWN AFTER PERMISSION FROM THE OWNER IS GRANTED.

EXTEND EXISTING SIEMENS CONTROL SYSTEM AS REQUIRED FOR

REFERENCE

**MANUFACTURER** 

WEIGHT (LBS)

**DIMENSIONS - L x W x D (INCHES)** 

**EXTERNAL STATIC PRESSURE (IN. W.G.)** 

**ELECTRICAL DATA** 

1. PROVIDE WITH REMOTE WALL MOUNTED THERMOSTAT. WIRING BY M.C.

DIMENSIONS W/ CURB & ACCESSORIES - L x W x H (INCHES)

2. INDOOR UNIT RECEIVES POWER FROM OUTDOOR UNIT BY INTERCONNECTED WIRING PROVIDED WITH UNIT, WIRING

3. COOLING RATED CAPACITY IS BASED ON THE FOLLOWING CONDITIONS. INDOOR: 80°F/67°FF, OUTDOOR: 95°F/75°F

SPLIT SYSTEM OUTDOOR UNIT SCHEDULE

COOLING CAPACITY - RATED (BTU/H)

INSTALLATION AND DISCONNECT BY E.C.

4. PROVIDE FILTER AND CONDENSATE PUMP WITH UNIT.

**NOMINAL CAPACITY (TONS)** 

MAX UNIT AIRFLOW (CFM)

**REFRIGERANT TYPE** 

5. UNIT IS COOLING ONLY.

REFERENCE

**MANUFACTURER** 

WEIGHT (LBS)

NOMINAL CAPACITY (TONS)

**REFRIGERANT TYPE** 

**COMPRESSOR QUANTITY** 

COOLING CAPACITY - RATED (BTU/H)

MODEL#

SEER

MOCP

NOTES:

**VOLTAGE - PH** 

**VOLTAGE - PH** 

MCA

MOCP

MODEL#

ADDITIONAL SENSOR NEAR ELEVATOR EQUIPMENT

REMOVE PIPING, HANGERS, DUCTWORK, GRILLES, REGISTERS, DIFFUSERS, ETC. THAT ARE INDICATED TO BE REMOVED IN A TIMELY MANNER IN ACCORDANCE WITH THE GENERAL DEMOLITION SPECIFICATIONS. COORDINATE WITH THE OWNER AND OTHER CONTRACTORS.

SPLIT SYSTEM INDOOR UNIT SCHEDULE

MECHANICAL GENERAL NOTE #1. PROVIDE MECHANICAL EQUIPMENT, SUPPORTS, HANGERS, AND ALL APPURTENANCES. INSTALL ALL EQUIPMENT PER MANUFACTURER'S RECOMMENDATIONS. INSTALL SYSTEM TO MEET ALL CITY AND STATE CODES AND REQUIREMENTS.

PROVIDE FIRE CAULKING ASSEMBLIES FOR PENETRATIONS OF

RATED ASSEMBLIES. REFER TO ARCHITECTURAL DRAWINGS

COORDINATE WORK WITH ALL OTHER TRADES AS DESCRIBED IN

CONTINUE PIPE INSULATION THROUGH WALLS, FLOORS, AND CEILING PENETRATIONS UNBROKEN, EXCEPT WHERE FIRE OR FIRE/SMOKE DAMPERS ARE INSTALLED IN DUCTWORK.

FOR ASSEMBLY RATINGS.

**MITSUBISHI** 

PKA-A24

WALL MOUNT

**HOOVER PENTHOUSE** 

46x14x11

**R454B** 

208 - 1

1.00

SEE SSO SCHEDULE

1 THROUGH 5

MITSUBISHI

PUY-A24NHA7

SSI-1

151

37x37x13

24,000

**R454B** 

17.5

208 - 1

19

26

1.2.3.4

### **ELECTRICAL ABBREVIATIONS**

A DEVICE MOUNTED +8" ABOVE NIC NOT IN CONTRACT COUNTER TOP (VERIFY LOCATION)

1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22

- NM NONMETALLIC AFF ABOVE FINISHED FLOOR NTS NOT TO SCALE ATS AUTOMATIC TRANSFER SWITCH OC ON CENTER OFCI OWNER FURNISHED CFILING CB CIRCUIT BREAKER CONTRACTOR INSTALLED
- CURRENT TRANSFORMER OFOI OWNER FURNISHED, EXISTING ITEM TO REMAIN OWNER INSTALLED ELECTRICAL CONTRACTOR R EXISTING ITEM TO BE REMOVED EMERGENCY LIGHT FIXTURE RR EXISTING ITEM TO BE REMOVED AND NEW LOCATION OF EXISTING ITEM RELOCATED RN EXISTING ITEM TO BE REMOVED AND ROUGH IN FOR FUTURE DEVICE
- FAAP FIRE ALARM ANNUNCIATOR PANEL FACP FIRE ALARM CONTROL PANEL SCCR SHORT CIRCUIT CURRENT RATING TAMPER PROOF DEVICE FSD FIRE SMOKE DAMPER G GROUND FAULT CIRCUIT INTERRUPTER TCC TEMPERATURE CONTROL CONTRACTOR GND GROUND TELEVISION

REPLACED WITH NEW

WEATHERPROOF DEVICE

VA VOLT-AMPERES

WG WIREGUARD COVER

- KVA KILO-VOLT-AMPERES TYP TYPICAL UPS UNINTERRUPTIBLE POWER SUPPLY KW KILOWATTS MECHANICAL CONTRACTOR VOLTS
- N NEW DEVICE IN EXISTING LOCATION WR WEATHER RESISTANT DEVICE +24" INDICATES MOUNTING HEIGHT CENTER LINE OF DEVICE TO FINISHED FLOOR

#### **GENERAL NOTES - ELECTRICAL**

MCB MAIN CIRCUIT BREAKER

MLO MAIN LUGS ONLY

MDP MAIN DISTRIBUTION PANEL

COORDINATE LOCATION/INSTALLATION OF MECHANICAL AND ELECTRICAL WORK WITH ALL OTHER TRADES. BEGIN INSTALLATION AND ROUGH-IN ONLY AFTER PROPER AND TIMELY COORDINATION WITH ALL TRADES ASSOCIATED WITH THE INSTALLATION IS COMPLETE. COORDINATE WITH BUILDING STRUCTURE, ARCHITECTURE, MECHANICAL SHEET METAL, ALL PIPING SYSTEMS, LIGHT FIXTURES, CONDUITS, CABLE TRAYS, EQUIPMENT ACCESS/CLEARANCE, ETC. REFER TO ALL GENERAL, MECHANICAL, AND ELECTRICAL DRAWINGS AND SPECIFICATIONS FOR THIS PROJECT. CONTRACTOR IS RESPONSIBLE FOR

REWORK OF INSTALLED EQUIPMENT RESULTING FROM INSUFFICIENT COORDINATION.

ELECTRICAL DRAWINGS ARE ONLY A PORTION OF THE COMPLETE SET OF PLANS AND CONTRACT DOCUMENTS. THE ELECTRICAL SCOPE OF WORK IS DEFINED BY THE COMPLETE SET OF CONTRACT DOCUMENTS. THIS INCLUDES BUT IS NOT LIMITED TO REFERENCING: ARCHITECTURAL PLANS FOR DIMENSIONS AND DETAILS; EQUIPMENT PLANS FOR ROUGH-IN REQUIREMENTS, MECHANICAL PLANS FOR EQUIPMENT SIZES AND LOCATIONS.

#### **INSTALLATION NOTES - ELECTRICAL**

- INCREASE CONDUCTOR SIZES ON 20A 120V-1 PHASE CIRCUITS EXCEEDING 100 FEET TO CENTER OF LOAD TO ACCOUNT FOR VOLTAGE DROP.
- RACEWAYS AND BOXES ARE SHOWN DIAGRAMMATICALLY ONLY AND INDICATE GENERAL AND APPROXIMATE LOCATIONS. LAYOUTS DO NOT ALWAYS SHOW THE TOTAL NUMBER OF RACEWAYS OR BOXES FOR THE CIRCUITS REQUIRED, NOR ARE THE LOCATIONS OF INDICATED RUNS INTENDED TO SHOW THE ACTUAL ROUTING OF THE RACEWAYS.
- LIGHT FIXTURES, SWITCHES, DEVICES, ETC. ARE SHOWN IN PREFERRED LOCATION. MODIFY CONDUIT, HANGERS, CIRCUITING, ETC. TO PROVIDE A COMPLETE AND OPERATIONAL SYSTEM.
- PROVIDE A DEDICATED GREEN INSULATED GROUND CONDUCTOR TO ALL DEVICES. DO NOT USE CONDUIT SYSTEM AS THE ONLY EQUIPMENT GROUNDING METHOD.
- PROVIDE TYPED PANEL DIRECTORY AT PROJECT COMPLETION FOR NEW PANELS AND EXISTING PANELS WITH CIRCUITS MODIFIED DURING PROJECT. USE OWNER'S CURRENT ROOM NUMBERS AND EQUIPMENT NAMES. PROVIDE UNIQUE CIRCUIT IDENTIFICATION PER NEC 408.4(A)
- 6. CONTRACTOR IS RESPONSIBLE FOR OPENINGS IN WALLS, FLOORS, CEILINGS, AND ROOFS THAT ARE REQUIRED TO COMPLETE THEIR SCOPE OF WORK. SEAL PENETRATIONS IN ACCORDANCE WITH THE RATING OF THE AFFECTED ASSEMBLY REFER TO ARCHITECTURAL CODE PLAN FOR RATED WALLS, FLOORS, AND CEILINGS

#### **CODE NOTES - ELECTRICAL**

- PROVIDE ELECTRICAL INSTALLATION IN ACCORDANCE WITH STATE CODES.
- THE CURRENT ADOPTED EDITION OF THE ELECTRICAL CODE IS THE STANDARD FOR THE ELECTRICAL INSTALLATION. VERIFY WITH STATE OFFICIALS WHEN PERMITS ARE OBTAINED. NOTIFY DESIGN TEAM OF ANY DISCREPANCIES BETWEEN THE PROJECT MANUAL OR DRAWINGS AND THE GOVERNING CODE.
- INSTALLATION SHALL FOLLOW REQUIREMENTS OF THE ADAAG -AMERICANS WITH
- REFER TO PROJECT MANUAL AND PROJECT CODE REVIEW SHEET FOR LIST OF APPLICABLE
- PER NEC EVERY CIRCUIT AND CIRCUIT MODIFICATION SHALL BE LEGIBLY IDENTIFIED AS TO ITS CLEAR, EVIDENT AND SPECIFIC PURPOSE OR USE. CONTRACTOR TO PROVIDE FINAL CIRCUIT IDENTIFICATION FOR ALL NEW AND MODIFIED CIRCUITS AT PROJECT COMPLETION.

### <u>DEVICE INSTALLATION AND MATERIALS - ELECTRICAL</u>

- PROVIDE NORMAL WIRING DEVICES AS <u>GRAY</u> UNLESS OTHERWISE NOTED.
- PROVIDE EMERGENCY WIRING DEVICES AS <u>ORANGE</u> UNLESS OTHERWISE NOTED.
- PROVIDE DEVICES COVER PLATES AS <u>STAINLESS STEEL</u>. MATCH WIRING DEVICES COLOR.
- PROVIDE GFCI TYPE RECEPTACLES AT ALL LOCATIONS REQUIRED BY THE NEC.
- INSTALL ABOVE COUNTERTOP RECEPTACLES +8" ABOVE COUNTERTOP OR AS OTHERWISE
- 6. AT A COMMON COUNTERTOP, INSTALL ALL RECEPTACLES AND SWITCHES AT THE SAME HEIGHT UNLESS OTHERWISE SPECIFICALLY INDICATED.

### FIRE DETECTION & ALARM NOTES

- INSTALL HEAT DETECTORS IN WORK AREAS DURING CONSTRUCTION TO MINIMIZE FALSE TRIPS. INSTALL PERMANENT DETECTORS IN LOCATIONS SHOWN UPON CONSTRUCTION COMPLETION.
- INSTALL MODULES AT ELEVATOR EQUIPMENT TO PROVIDE PRIMARY RECALL, SECONDARY RECALL, FIRE HAT AND SHUNT TRIP. PROVIDE PROGRAMMING AS NECESSARY FOR FUNCTION SYSTEM.
- FIRE ALARM ITEMS AND DEVICES ARE SHOWN IN SUGGESTED LOCATIONS. FINAL LAYOUTS, LOCATIONS, AND QUANTITIES SHALL BE IN ACCORDANCE WITH APPLICABLE CODES, MANUFACTURER'S RECOMMENDATIONS, AND EQUIPMENT LISTINGS. COORDINATE LOCATIONS WITH LIGHTING AND AIR HANDLING SYSTEMS.
- ALL FIRE ALARM CIRCUITRY IN EXPOSED CEILING SPACES SHALL BE IN 3/4" CONDUIT PER SPECIFICATIONS. EXPOSED CABLING SHALL NOT BE ACCEPTED.
- ALL CONCEALED, ACCESSIBLE CEILING TILE LOCATIONS SHALL BE ALLOWED TO HAVE OPEN AIR CABLING INSTALLED. PROVIDE J-HOOKS, BRIDLE RINGS AND ASSOCIATED
- CABLE SUPPORTS TO KEEP INFRASTRUCTURE MANAGED AND OFF OF THE CEILING TILE. ELECTRICAL CONTRACTOR SHALL PROVIDE FIRESTOPPING AT ALL PENETRATIONS PER

#### **COMMUNICATION NOTES**

- REUSE EXISTING POTS LINE IN THE ELEVATOR EQUIPMENT ROOM FOR THE ELEVATOR TELEPHONE. REVISE LOCATION AND EXTEND AS NECESSARY FOR NEW EQUIPMENT
- INSTALL NEW DATA CABLING FROM IDF LOCATIONS SHOWN ON PLANS TO EACH ELEVATOR EQUIPMENT ROOM FOR NEW 2-WAY COMMUNICATION SYSTEM.

#### TECHNOLOGY RESPONSIBILITY MATRIX PROVISION RESPONSIBILITIES DEFINED | OFOI | OFCI | CFCI **COMMUNICATIONS - TELECOM SYSTEMS:** ROUGH-IN, PATHWAYS AND SLEEVES RACKS, FRAMES AND ENCLOSURES REUSE EXISTING COPPER HORIZONTAL CABLING REUSE EXISTING DATA COMMUNICATIONS SWITCHES AND HUBS SECURITY - ACCESS CONTROL: ROUGH-IN, PATHWAYS AND SLEEVES SECURITY MANAGEMENT SYSTEM - HEAD END COMPONENTS SECURITY MANAGEMENT SYSTEM - FIELD DEVICES SECURITY MANAGEMENT SYSTEM - ELECTRIFIED DOOR HARDWARE SECURITY MANAGEMENT SYSTEM - ALL CABLING **SECURITY - VIDEO SURVEILLANCE:** ROUGH-IN, PATHWAYS AND SLEEVES N/A N/A N/A N/A N/A N/A HEAD END EQUIPMENT AND COMPONENTS N/A N/A N/A SAFETY - FIRE DETECTION AND ALARM: ROUGH-IN, PATHWAYS AND SLEEVES INITIATING FIELD DEVICES (SMOKE, MANUAL PULL, MONITOR MODULES) NOTIFICATION APPLIANCES (HORNS, STROBES, SPEAKERS) MISCELLANEOUS DEVICES (RELAYS, TEST STATION, ANNUNCIATOR) OFOI <u>o</u>wner <u>f</u>urnished & <u>o</u>wner <u>i</u>nstalled OFCI OWNER FURNISHED & CONTRACTOR INSTALLED CFCI <u>c</u>ontractor <u>f</u>urnished & <u>c</u>ontractor <u>i</u>nstalled MATRIX IS NOT INTENDED TO BE EXHAUSTIVE TO COVER ALL MATERIALS NECESSARY FOR SCOPE AND SHOULD ONLY BE USED TO QUICKLY IDENTIFY SYSTEMS AND RELATED INFRASTRUCTURE INSIDE AND OUTSIDE THE BID OF THIS PROJECT. ANY ITEMS FURNISHED OR INSTALLED BY THE BIDDING CONTRACTOR SHALL COVER ALL REQUIRED APPERTUNANCES NECESSARY FOR A COMPLETE SYSTEM. THIS SHALL INCLUDE BUT NOT BE LIMITED TO, EQUIPMENT, ACCESSORIES, TERMINATIONS, TERMINATION COMPONENTS, ALL FINAL CORDAGE CONNECTIVITY, SOFTWARE, PROGRAMMING, AND THE LABOR TO INSTALL

7. CONTRACTOR IS RESPONSIBLE FOR OBTAINING AND FILLING OUT ALL UTILITY REBATE FORMS FOR OWNER.

LIGHTING SYMBOLS

RECESSED LIGHT FIXTURE, LETTER INDICATES SWITCH LEG (TYPICAL), SHADING

INDICATES EMERGENCY LIGHT (TYPICAL)

ARROW INDICATES WALLWASH

INDUSTRIAL STRIP LIGHT FIXTURE

SURFACE MOUNTED STRIP FIXTURE

LINEAR PENDANT MOUNTED FIXTURE

WALL MOUNTED STRIP LIGHT FIXTURE.

EMERGENCY LIGHT FIXTURE, CEILING MOUNT

FACES, ARROWS INDICATE SIGN ARROWS

ARROWS INDICATE SIGN ARROWS

EMERGENCY TRANSFER DEVICE

ROUND APERTURE RECESSED DOWNLIGHT FIXTURE,

EMERGENCY LIGHT FIXTURE, WALL MOUNT, +96" OR AS NOTED

EXIT SIGN, WALL MOUNT +96", SHADED AREAS INDICATE NUMBER OF

EXIT SIGN, CEILING MOUNT, SHADED AREAS INDICATE NUMBER OF FACES,

SINGLE POLE SWITCH, WALL MOUNT, LETTER INDICATES SWITCH LEG

THREE WAY SWITCH, WALL MOUNT, LETTER INDICATES SWITCH LEG

PILOT LIGHT SWITCH, WALL MOUNT, LETTER INDICATES SWITCH LEG

DIMMER SWITCH, WALL MOUNT, LETTER INDICATES SWITCH LEG

LETTER INDICATES SWITCH LEG, REFER TO LIGHTING CONTROLS SCHEDULE

LIGHTING CONTROLS LOW VOLTAGE SWITCH, WALL MOUNT,

GENERAL SYMBOLS E ☐ CONDUIT SLEEVE CONDUIT UP, REFER TO TAG ON DRAWING FOR SIZE CONDUIT DOWN, REFER TO TAG ON DRAWING FOR SIZE JUNCTION BOX, CEILING OR FLOOR MOUNTED. JUNCTION BOX, WALL MOUNTED, ELEVATION AS NOTED. EQUIPMENT IDENTIFICATION TAG. REFER TO EQUIPMENT CONNECTION SCHEDULE DETAIL DRAWING REFERENCE TAG, SIM-SIMILAR, TYP-TYPICAL, OPP-OPPOSITE SHEET REFERENCE SECTION CUT REFERENCE TAG, SIM-SIMILAR, TYP-TYPICAL, OPP-OPPOSITE SHEET REFERENCE INTERIOR ELEVATION DRAWING REFERENCE TAG DRAWINGS REVISION. REFER TO TITLEBLOCK FOR REVISION NAME AND DATE

POWER SYMBOLS SINGLE RECEPTACLE, WALL MOUNTED DUPLEX RECEPTACLE, WALL MOUNTED, TAMPER-RESISTANT DUPLEX GFCI RECEPTACLE, TAMPER-RESISTANT, WALL MOUNT, PROTECTION INCLUDED IN DEVICE. DUPLEX GFCI WEATHER RESISTANT RECEPTACLE WITH WEATHER-PROOF IN-USE COVER, TAMPER-RESISTANT, WALL MOUNT EQUIPMENT CONNECTION, REFER TO EQUIPMENT CONNECTION SCHEDULE FOR CONNECTION TYPE REFER TO PANEL SCHEDULES FOR GFCI PROTECTION WHERE REQUIRED MOTOR CONNECTION REFER TO EQUIPMENT CONNECTION SCHEDULE FOR CONNECTION TYPE REFER TO PANEL SCHEDULES FOR GFCI PROTECTION WHERE REQUIRED EQUIPMENT CONNECTION, WALL MOUNT, REFER TO EQUIPMENT CONNECTION SCHEDULE FOR CONNECTION TYPE. REFER TO PANEL SCHEDULES FOR GFCI PROTECTION WHERE REQUIRED SAFETY DISCONNECT SWITCH SURGE PROTECTIVE DEVICE PANELBOARD - SURFACE MOUNTED PANELBOARD - RECESSED IN WALL DISTRIBUTION PANELBOARD/SWITCHBOARD - SURFACE MOUNTED AS NOTED.

TEMPERAT	TURE CONTROLS SYMBOLS - DEVICES PROVIDED BY T.C.C
1	THERMOSTAT JUNCTION BOX ROUGH-IN. WALL MOUNTED +48" OR AS NOTED. EXTEND 3/4" CONDUIT TO ACCESSIBLE LOCATION ABOVE CEILING.
$\Theta$	HUMIDISTAT JUNCTION BOX ROUGH-IN. WALL MOUNTED +48" OR AS NOTED. EXTEND 3/4" CONDUIT TO ACCESSIBLE LOCATION ABOVE CEILING.
©	CARBON DIOXIDE SENSOR JUNCTION BOX ROUGH-IN. WALL MOUNTED +48" OR AS NOTED. EXTEND 3/4" CONDUIT TO ACCESSIBLE LOCATION ABOVE CEILING.
<u>\$</u>	TEMPERATURE SENSOR JUNCTION BOX ROUGH-IN. WALL MOUNTED +48" OR AS NOTEI EXTEND 3/4" CONDUIT TO ACCESSIBLE LOCATION ABOVE CEILING.

**EQUIPMENT CONNECTION SCHEDULE** BBREVIATIONS: 1. PROVIDE AND INSTALL ELECTRICAL SYSTEMS MEETING THE REQUIREMENTS OF THE PROVIDED MECHANICAL SYSTEMS. NEMA 1 ENCLOSURE INT INTEGRAL WITH EQUIPMENT FROM FACTORY 3R NEMA 3R ENCLOSURE NFD NON-FUSED DISCONNECT SWITCH, HEAVY DUTY  $^{2+}$  REVIEW EQUIPMENT SHOP DRAWINGS FOR COMPLIANCE AND COORDINATION WITH ELECTRICAL CONNECTIONS. NOTIFY CB CIRCUIT BREAKER IN PANEL ST SHUNT TRIP ENGINEER IF CHANGES TO ELECTRICAL CONNECTIONS, WIRING, AND BREAKER REQUIREMENTS ARE NECESSARY. 3. PROVIDE HEAVY DUTY DISCONNECTS FOR THE INSTALLED ENVIRONMENT; NEMA 1 INDOORS, MINIMUM NEMA 3R FAR FIRE ALARM SHUTDOWN RELAY TS TOGGLE SWITCH FDS FUSED DISCONNECT SWITCH, HEAVY 4. INCLUDE AUXILLIARY CONTACTS AND LOW-VOLTAGE WIRING TO AUXILLIARY EQUIPMENT THAT RUNS IN TANDEM WITH EQUIPMENT, (I.E. 120V DAMPERS WITH 480V MOTORS). **ELECTRICAL CHARACTERISTICS** SSO\_1

550	·1   208 V  1	-	-	19	NFD	30	3R		-	-
						LIGHT	ING FIXTUR	RE SCHEDU	<u>JLE</u>	
NOTES:										
1. ALL I	FIXTURES SHALL BE U.L. OR SIMILAI	RLY LISTED.								
2. INCL	UDE A MINIMUM 1 YEAR WARRANTY	FOR LIGHTING F	FIXTURES	S, WHERE N	OT OTHER	WISE SPECIF	IED.			
	ER TO ARCHITECTURAL DOCUMENT ATION OR DETAIL, ISSUE AN RFI FOR							ALL LUMINAIF	RES. IF AR	RCHITECTURAL DRAWINGS DO NOT CLARIFY EXACT MOUNTING
	FY COMPATIBILITY OF LIGHT FIXTUI STRUCTION, FLANGE,	RES WITH ARCHI	TECTURE	EAL CEILING	G PLAN, MA	TERIALS, AD.	JACENT CONST	TRUCTION, AN	D ADJACE	ENT FINISHES PRIOR TO SHOP DRAWINGS SUBMITTAL. ADJUST FIXTURE TYPE,
6. AIM	TRACTOR IS RESPONSIBLE FOR ALI AND TARGET ADJUSTABLE INTERIOI UDE LABOR AND MATERIAL COSTS	R AND EXTERIOR	LIGHT FI	IXTURES UI	NDER THE					MENDATIONS OF THE ARCHITECT.

									DESIGNE	D BY: ERIC HEYNEN
TYPE	MANUFACTURER	MODEL	DESCRIPTION	FINISH	LUMENS	DRIVER TYPE	SOURCE-CC T	VOLTAGE	LOAD-VA	APPROVED EQUALS
EM	HUBBELL DUAL-LITE	LZ-2-I-03L	EMERGENCY LIGHT, WALL OR CEILING MOUNTED, THERMOPLASTIC HOUSING, 2 LED ADJUSTABLE LAMP HEADS, LEAD-CALCIUM MAINTENANCE FREE BATTERY, SELF-DIAGNOSTICS. MULTI-VOLT REQUIRED	WHITE	300	LED	LED - 4000K	120 V	2 VA	SURE-LITES, LIGHTALARMS, LITHONIA
F1	ΙΙΙΗ()ΝΙΙΔ		UTILITY STRIP FIXTURE 4', WET LISTED, GASKETED, POLYCARB LENS, MULTI-VOLT REQUIRED	WHITE	5000	LED	LED - 4000K	120 V	35 VA	COOPER, CURRENT
F2		CSVT L48 5000LM MVOLT 40K 80CRI	SAME AS F1 BUT WALL MOUNTED	WHITE	5000	LED	LED - 4000K	120 V	35 VA	COOPER, CURRENT
F3	ALPHABET	5K-90-60D-CL-WH-WH-	4" RECESSED DOWNLIGHT, MULTI-VOLT, RETROFIT IN EXISTING DRYWALL CEILING, EXTEND CIRCUIT/SWITCHLEG FROM EXISTING LIGHTING IN SPACE	WHITE	1500	LED	LED - 3500K	120 V	16 VA	GOTHAM, PORTFOLIO



1. DISCONNECT SHALL BE PROVIDED / INSTALLED BY E.C.

2. UNIT TO BE MOUNTED ON INTERIOR MECH ROOM WALL. REFER TO INSTALLATION DETAIL ON PLANS.

3. REFER TO SPLIT SYSTEM INDOOR UNIT SCHEDULE FOR CAPACITY RATING CONDITIONS.

**EFFICIENCY** 

**ELECTRICAL DATA** 

4. SYSTEM REQUIRES LOW AMBIENT AIR COOLING OPERATION (-20 °F), PROVIDE LOW AMBIENT WIND BAFFLES.

1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 21 | 22 | 23 | 24 | 25

Sheet Name ELECTRICAL/MECHANICAL **GENERAL NOTES &** 

OPN Project No. 24850000

Sheet Issue Date

100 Court Ave., Suite 100

www.opnarchitects.com

rights, including the copyright thereto.

**Lucas Elevator Modernization** 

220 SE 6TH Street - SUITE 200

7625 GOLDEN TRIANGLE DRIVE, SUITE T

1305 E. Walnut Street

DES MOINES, IA 50319

DES MOINES, IA 50309

EDEN PRAIRIE, MN 55344

WEST DES MOINES, IA 50265

WEST DES MOINES, IA 50265

P. 515-244-5043

LERCH BATES

P. 612-441-4335

Mechanical Engineer

300 4TH ST

Electrical Engineer

300 4TH ST

P. 515-724-7938

P. 515-724-7938

KCL ENGINEERING

KCL ENGINEERING

Elevator Consultant

Construction Manager

DCI Group

All reports, plans, specifications, computer files, field data,

notes and other documents and instruments prepared by

the property of OPN Architects, Inc., OPN Architects, Inc.

shall retain all common law, statutory and other reserved

OPN Architects, Inc. as instruments of service shall remain

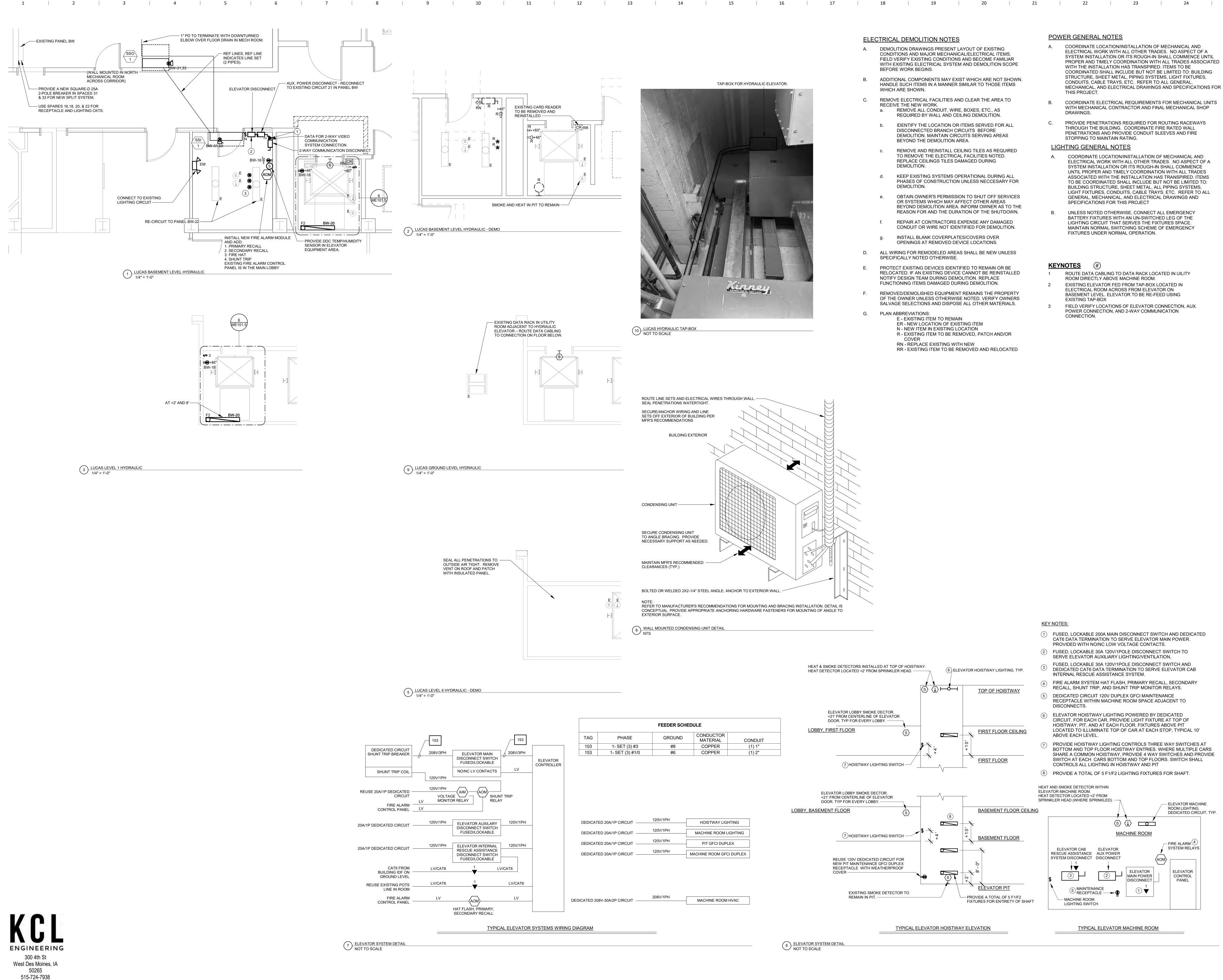
Des Moines, IA 50309

P: 515-309-0722

© 2024 OPN Architects, Inc

**SYMBOLS LUCAS ME000.5** 

03/14/2025



14 | 15 | 16 | 17 | 18 |

1 2 3 4 5 6 7 8 9 10 11 12 13 1

100 Court Ave., Suite 100

Des Moines, IA 50309 P: 515-309-0722 www.opnarchitects.com All reports, plans, specifications, computer files, field data, notes and other documents and instruments prepared by OPN Architects, Inc. as instruments of service shall remain the property of OPN Architects, Inc. OPN Architects, Inc.

shall retain all common law, statutory and other reserved rights, including the copyright thereto. © 2024 OPN Architects, Inc.

Lucas Elevator Modernization 1305 E. Walnut Street DES MOINES, IA 50319

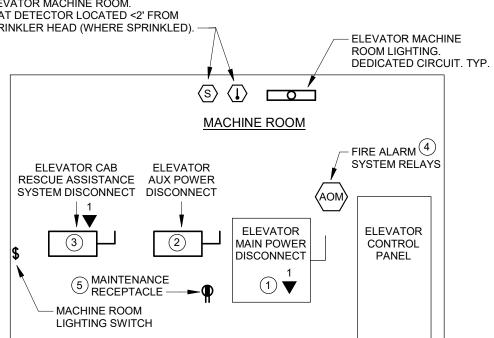
Construction Manager DCI Group 220 SE 6TH Street - SUITE 200 DES MOINES, IA 50309 P. 515-244-5043

Elevator Consultant LERCH BATES 7625 GOLDEN TRIANGLE DRIVE, SUITE T EDEN PRAIRIE, MN 55344

P. 612-441-4335 Mechanical Engineer KCL ENGINEERING 300 4TH ST WEST DES MOINES, IA 50265

P. 515-724-7938

Electrical Engineer KCL ENGINEERING 300 4TH ST WEST DES MOINES, IA 50265 P. 515-724-7938

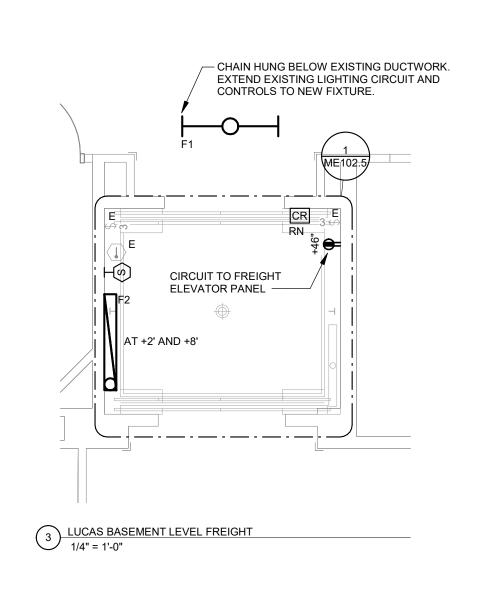


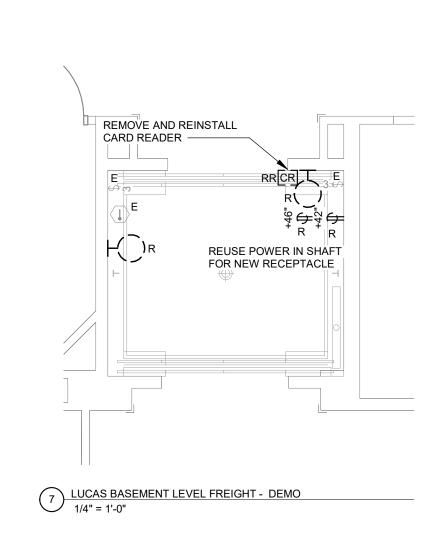
OPN Project No. 24850000

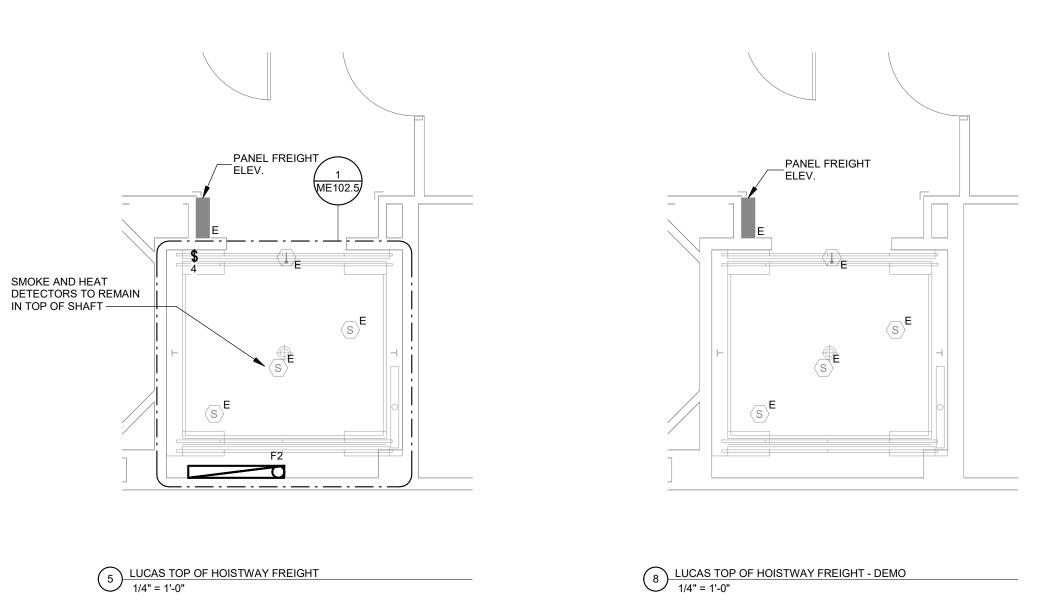
Sheet Issue Date 03/14/2025

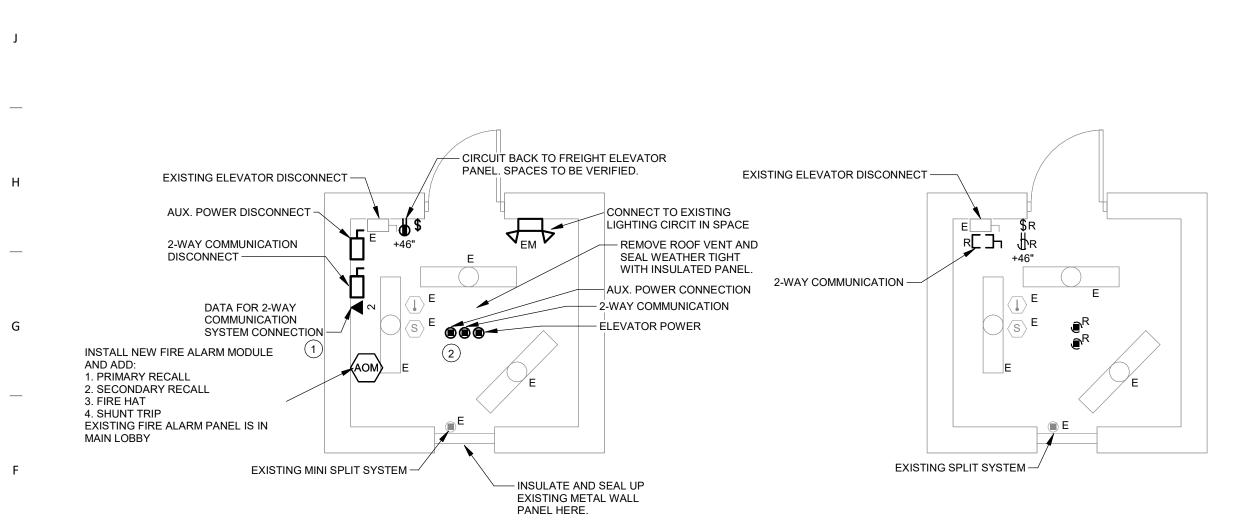
Sheet Name **ELECTRICAL/MECHANICAL LUCAS HYDRAULIC** Sheet Number

**ME101.5** 









6 LUCAS MACH. RM. FREIGHT



9 LUCAS FREIGHT ELEV DISCONNECT
1/4" = 1'-0"

REUSE ELEVATOR MAIN CONDUCTORS

RELAY

LV/CAT6

TYPICAL ELEVATOR SYSTEMS WIRING DIAGRAM

**ELEVATOR** 

CONTROLLER

DISCONNECT SWITCH

FUSED/LOCKABLE

NO/NC LV CONTACTS

VOLTAGE SHUNT TRIP

120V/1PH ELEVATOR AUXILARY 120V/1PH

DISCONNECT SWITCH FUSED/LOCKABLE

ELEVATOR INTERNAL

RESCUE ASSISTANCE

DISCONNECT SWITCH

FUSED/LOCKABLE

HAT FLASH, PRIMARY SECONDARY RECALL

1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20



## **ELECTRICAL DEMOLITION NOTES**

- DEMOLITION DRAWINGS PRESENT LAYOUT OF EXISTING CONDITIONS AND MAJOR MECHANICAL/ELECTRICAL ITEMS. FIELD VERIFY EXISTING CONDITIONS AND BECOME FAMILIAR WITH EXISTING ELECTRICAL SYSTEM AND DEMOLITION SCOPE BEFORE WORK BEGINS.
- ADDITIONAL COMPONENTS MAY EXIST WHICH ARE NOT SHOWN. HANDLE SUCH ITEMS IN A MANNER SIMILAR TO THOSE ITEMS WHICH ARE SHOWN.
- REMOVE ELECTRICAL FACILITIES AND CLEAR THE AREA TO RECEIVE THE NEW WORK. a. REMOVE ALL CONDUIT, WIRE, BOXES, ETC., AS REQUIRED BY WALL AND CEILING DEMOLITION.
- IDENTIFY THE LOCATION OR ITEMS SERVED FOR ALL DISCONNECTED BRANCH CIRCUITS BEFORE DEMOLITION. MAINTAIN CIRCUITS SERVING AREAS BEYOND THE DEMOLITION AREA.
- REMOVE AND REINSTALL CEILING TILES AS REQUIRED TO REMOVE THE ELECTRICAL FACILITIES NOTED. REPLACE CEILINGS TILES DAMAGED DURING DEMOLITION.
- KEEP EXISTING SYSTEMS OPERATIONAL DURING ALL PHASES OF CONSTRUCTION UNLESS NECCESARY FOR
- e. OBTAIN OWNER'S PERMISSION TO SHUT OFF SERVICES OR SYSTEMS WHICH MAY AFFECT OTHER AREAS BEYOND DEMOLITION AREA. INFORM OWNER AS TO THE REASON FOR AND THE DURATION OF THE SHUTDOWN.
- REPAIR AT CONTRACTORS EXPENSE ANY DAMAGED CONDUIT OR WIRE NOT IDENTIFIED FOR DEMOLITION.

INSTALL BLANK COVERPLATES/COVERS OVER

- OPENINGS AT REMOVED DEVICE LOCATIONS. ALL WIRING FOR REMODELED AREAS SHALL BE NEW UNLESS
- SPECIFICALLY NOTED OTHERWISE. PROTECT EXISTING DEVICES IDENTIFIED TO REMAIN OR BE RELOCATED. IF AN EXISTING DEVICE CANNOT BE REINSTALLED

NOTIFY DESIGN TEAM DURING DEMOLITION. REPLACE

FUNCTIONING ITEMS DAMAGED DURING DEMOLITION.

N - NEW ITEM IN EXISTING LOCATION

- REMOVED/DEMOLISHED EQUIPMENT REMAINS THE PROPERTY OF THE OWNER UNLESS OTHERWISE NOTED. VERIFY OWNERS SALVAGE SELECTIONS AND DISPOSE ALL OTHER MATERIALS.
- PLAN ABBREVIATIONS: E - EXISTING ITEM TO REMAIN ER - NEW LOCATION OF EXISTING ITEM

DEMOLITION.

R - EXISTING ITEM TO BE REMOVED, PATCH AND/OR RN - REPLACE EXISTING WITH NEW RR - EXISTING ITEM TO BE REMOVED AND RELOCATED

#### **POWER GENERAL NOTES**

- COORDINATE LOCATION/INSTALLATION OF MECHANICAL AND ELECTRICAL WORK WITH ALL OTHER TRADES. NO ASPECT OF A SYSTEM INSTALLATION OR ITS ROUGH-IN SHALL COMMENCE UNTIL PROPER AND TIMELY COORDINATION WITH ALL TRADES ASSOCIATED WITH THE INSTALLATION HAS TRANSPIRED. ITEMS TO BE COORDINATED SHALL INCLUDE BUT NOT BE LIMITED TO: BUILDING STRUCTURE, SHEET METAL, PIPING SYSTEMS, LIGHT FIXTURES, CONDUITS, CABLE TRAYS, ETC. REFER TO ALL GENERAL, MECHANICAL, AND ELECTRICAL DRAWINGS AND SPECIFICATIONS FOR THIS PROJECT.
- COORDINATE ELECTRICAL REQUIREMENTS FOR MECHANICAL UNITS WITH MECHANICAL CONTRACTOR AND FINAL MECHANICAL SHOP DRAWINGS.
- PROVIDE PENETRATIONS REQUIRED FOR ROUTING RACEWAYS THROUGH THE BUILDING. COORDINATE FIRE RATED WALL PENETRATIONS AND PROVIDE CONDUIT SLEEVES AND FIRE STOPPING TO MAINTAIN RATING.

#### **LIGHTING GENERAL NOTES**

- COORDINATE LOCATION/INSTALLATION OF MECHANICAL AND ELECTRICAL WORK WITH ALL OTHER TRADES. NO ASPECT OF A SYSTEM INSTALLATION OR ITS ROUGH-IN SHALL COMMENCE UNTIL PROPER AND TIMELY COORDINATION WITH ALL TRADES ASSOCIATED WITH THE INSTALLATION HAS TRANSPIRED. ITEMS TO BE COORDINATED SHALL INCLUDE BUT NOT BE LIMITED TO: BUILDING STRUCTURE, SHEET METAL, ALL PIPING SYSTEMS, LIGHT FIXTURES, CONDUITS, CABLE TRAYS, ETC. REFER TO ALL GENERAL, MECHANICAL, AND ELECTRICAL DRAWINGS AND SPECIFICATIONS FOR THIS PROJECT
- UNLESS NOTED OTHERWISE, CONNECT ALL EMERGENCY BATTERY FIXTURES WITH AN UN-SWITCHED LEG OF THE LIGHTING CIRCUIT THAT SERVES THE FIXTURES SPACE. MAINTAIN NORMAL SWITCHING SCHEME OF EMERGENCY FIXTURES UNDER NORMAL OPERATION.

#### <u>KEYNOTES</u>

DATA TO BE FEED FROM 5TH FLOOR EAST UTILITY ROOM. FIELD VERIFY LOCATIONS OF ELEVATOR CONNECTION, AUX. POWER CONNECTION, AND 2-WAY COMMUNICATION CONNECTION.

Electrical Engineer KCL ENGINEERING 300 4TH ST WEST DES MOINES, IA 50265 P. 515-724-7938

100 Court Ave., Suite 100

www.opnarchitects.com

rights, including the copyright thereto.

© 2024 OPN Architects, Inc.

All reports, plans, specifications, computer files, field data,

notes and other documents and instruments prepared by

OPN Architects, Inc. as instruments of service shall remain

shall retain all common law, statutory and other reserved

the property of OPN Architects, Inc., OPN Architects, Inc.

Lucas Elevator Modernization

220 SE 6TH Street - SUITE 200

7625 GOLDEN TRIANGLE DRIVE, SUITE T

DES MOINES, IA 50309

EDEN PRAIRIE, MN 55344

1305 E. Walnut Street

Construction Manager

P. 515-244-5043

Elevator Consultant

LERCH BATES

P. 612-441-4335

Mechanical Engineer

300 4TH ST

Key Plan

P. 515-724-7938

KCL ENGINEERING

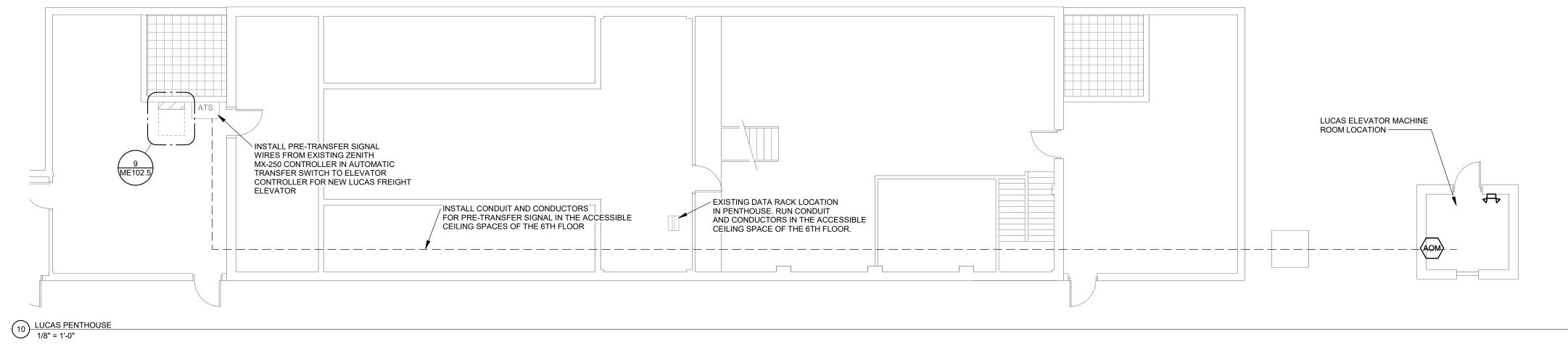
WEST DES MOINES, IA 50265

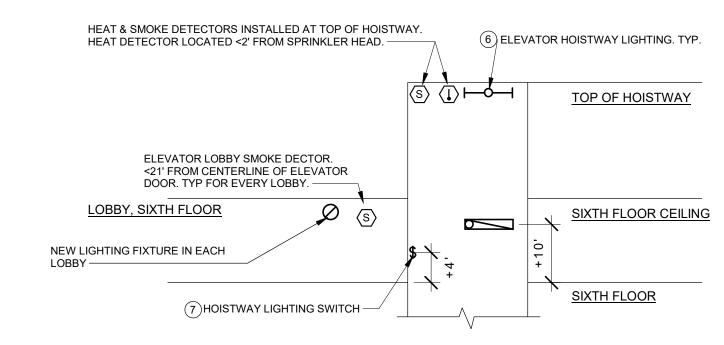
DCI Group

DES MOINES, IA 50319

Des Moines, IA 50309

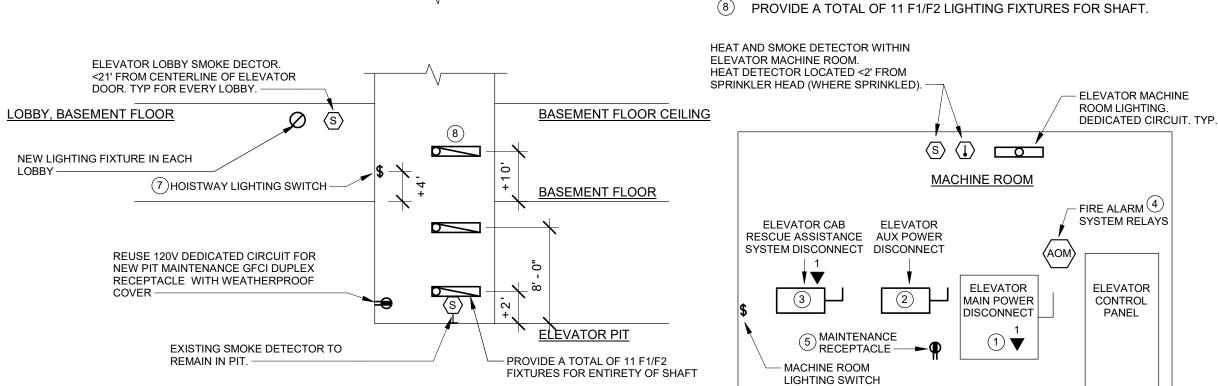
P: 515-309-0722







- ELEVATOR AUXILLIARY LIGHTING/VENTILATION,
- FUSED, LOCKABLE 120V/1POLE DISCONNECT SWITCH AND DEDICATED CAT6 DATA TERMINATION TO SERVE ELEVATOR CAB INTERNAL RESCUE ASSISTANCE SYSTEM.
- FIRE ALARM SYSTEM HAT FLASH, PRIMARY RECALL, SECONDARY
- RECALL, SHUNT TRIP, AND SHUNT TRIP MONITOR RELAYS. DEDICATED CIRCUIT 120V DUPLEX GFCI MAINTENANCE
- RECEPTACLE WITHIN MACHINE ROOM SPACE ADJACENT TO DISCONNECTS.
- ELEVATOR HOISTWAY LIGHTING POWERED BY DEDICATED CIRCUIT. FOR EACH CAR, PROVIDE LIGHT FIXTURE AT TOP OF HOISTWAY, PIT, AND AT EACH FLOOR. FIXTURES ABOVE PIT LOCATED TO ILLUMINATE TOP OF CAR AT EACH STOP, TYPICAL 10' ABOVE EACH LEVEL.
- PROVIDE HOISTWAY LIGHTING CONTROLS THREE WAY SWITCHES AT BOTTOM AND TOP FLOOR HOISTWAY ENTRIES. WHERE MULTIPLE CARS SHARE A COMMON HOISTWAY, PROVIDE 4 WAY SWITCHES AND PROVIDE SWITCH AT EACH CARS BOTTOM AND TOP FLOORS. SWITCH SHALL CONTROLS ALL LIGHTING IN HOISTWAY AND PIT



TYPICAL ELEVATOR HOISTWAY ELEVATION

TYPICAL ELEVATOR MACHINE ROOM

Sheet Issue Date Sheet Name

**ELECTRICAL/MECHANICAL LUCAS FREIGHT** Sheet Number

OPN Project No.

24850000

**ME102.5** 

03/14/2025



| 13

DEDICATED 20A/1P CIRCUIT

DEDICATED 20A/1P CIRCUIT -

DEDICATED 20A/1P CIRCUIT

DEDICATED 20A/1P CIRCUIT -

1 ELEVATOR SYSTEM DETAIL NOT TO SCALE

| 17

HOISTWAY LIGHTING

MACHINE ROOM LIGHTING

PIT GFCI DUPLEX

MACHINE ROOM GFCI DUPLEX

2 ELEVATOR SYSTEM DETAIL NOT TO SCALE

DEDICATED CIRCUIT REUSE EXISTING CONDUCTORS

CIRCUIT

FIRE ALARM

CAT6 FROM

PENTHOUSE

BUILDING IDF IN

LINE IN ROOM

CONTROL PANEL

FIRE ALARM

REUSE EXISTING POTS

CONTROL PANEL

120V/1PH

LV/CAT6

MONITOR RELAY

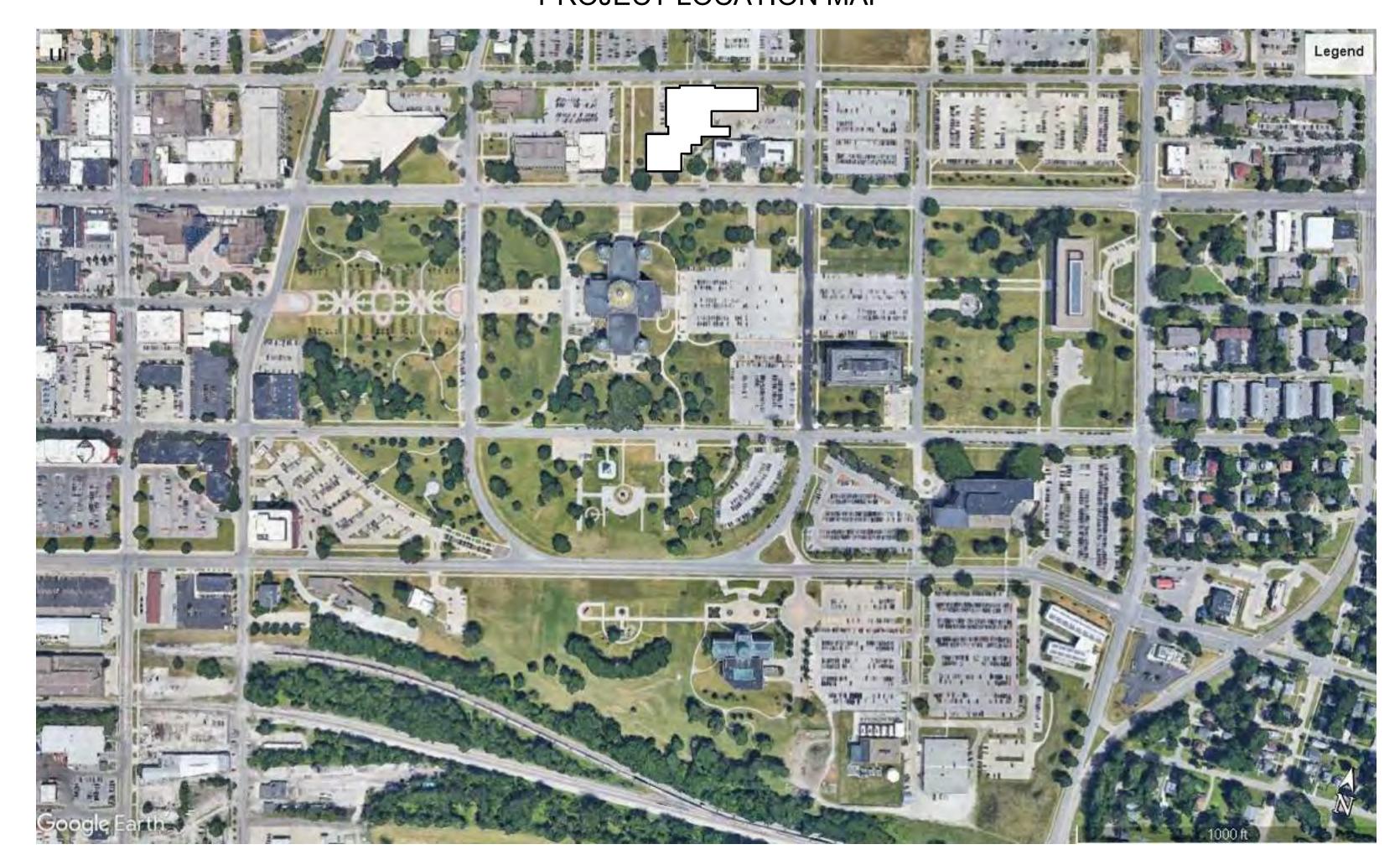
SHUNT TRIP BREAKER

REUSE 20A/1P DEDICATED -

20A/1P DEDICATED CIRCUIT

20A/1P DEDICATED CIRCUIT

## PROJECT LOCATION MAP



## SHEET INDEX

COVER SHEET

AG002.6	SITE LOGISTICS PLAN
AD100.6	DEMO FLOOR PLANS
AD101.6	DEMO FLOOR PLANS
AD200.6	EXISTING CONDITIONS
AD201.6	EXISTING CONDITIONS
A100.6	FLOOR PLANS - NORTH
A101.6	FLOOR PLANS - SOUTH
ME000.6	MECHANICAL / ELECTRICAL GENERAL NOTES & SYN
ME101.6	ELECTRICAL / MECHANICAL JESSIE PARKER NORTH
ME102.6	ELECTRICAL / MECHANICAL JESSIE PARKER SOUTH

#### APPLICABLE CODE INFORMATION

#### THE PROJECT SHALL COMPLY WITH THE FOLLOWING CODES

2015 INTERNATIONAL BUILDING CODE AS ADOPTED BY IOWA ADMINISTRATIVE RULE 661-201 AND 661-301

2010 AMERICANS WITH DISABILITIES ACT AS ADOPTED BY IOWA ADMINISTRATIVE RULE 661-302

STATE MECHANICAL CODE AS ADOPTED BY THE DEPARTMENT OF PUBLIC HEALTH IOWA ADMINISTRATIVE RULE 641-61

STATE PLUMBING CODE AS ADOPTED BY THE DEPARTMENT OF PUBLIC HEALTH IOWA ADMINISTRATIVE RULE 641-25

2015 INTERNATIONAL FIRE CODE AS ADOPTED BY IOWA ADMINISTRATIVE RULE 661-201

STATE ELECTRICAL CODE AS ADOPTED BY THE STATE ELECTRICAL LICENSING BOARD IOWA ADMINISTRATIVE RULE 661-504

2015 INTERNATIONAL EXISTING BUILDING CODE AS ADOPTED BY IOWA ADMINISTRATIVE RULE 661-301 AND 661-350

IBC Chapter 2 - Use and Occupancy Classification

Primary Occupancy:

The use and occupancy classification of the existing building are unchanged.

IBC Chapter 5 - General Building Heights and Areas

Existing building use and size to remain unchanged. **IBC Chapter 6 - Types of Construction** 

The type of construction for the existing building is unchanged. IBC Chaper 7 - Fire and Smoke Protection Features

New construction is limited and existing construction is not being modified. For construction purposes, shaft is considered to be 2 HR construction.

New construction is limited and matches existing interior finishes. IBC Chapter 10 - Means of Egress

All means of egress are being maintained in the existing building. IBC Chapter 30 - Elevators and Conveying Systems

Fire resistance rated construction is provided at the elevator machine room. Smoke protection at hoistway openings is not required per IBC 3006.2.

with the same materials of which the original building is constructed. The existing building is in compliance with the

mandatory fire safety requirements, the mandatory means of egress requirements, and the general safety

Accessibility within the building will be maintained.

lowa Administrative Code, Chapter 72 - Conveyances Installed on or After January 1, 1975 Elevator pit sump pump is not required per 72.13(3).

NFPA-13 Chapter 8 - Section 8.15.5

Building is fully sprinklered. In accordance with NFPA 13-2013, sprinkler coverage will not be provided in the new elevator machine room nor at the bottom of the elevator pit (traction elevators). A sprinkler is not required a the top of

the hoistway due to compliance with 8.15.5.6.

Building is fully sprinklered. In accordance with NFPA 13-2013, sprinkler coverage will be provided in the existing elevator machine room and at the bottom of the elevator pit (hydraulic elevator). A sprinkler is not required a the top of the hoistway due to compliance with 8.15.5.6.

# STATE OF IOWA - JESSIE PARKER ELEVATOR MOD.

1000 E GRAND AVENUE, DES MOINES, IA 50319



2100 NC3 mot tAkee Stitite & 100 MD ess & Apioless, NAN 505001 P: 515-3099-671222355-751513009v07/25pn@rwtwitepotsacchritects.com

ARCHITECT OPN ARCHITECTS 100 COURT AVENUE

DES MOINES, IA 50309

CONSTRUCTION MANAGER DCI GROUP

220 SE 6th STREET, SUITE 200

DES MOINES, IA 50309

KCL ENGINEERING 300 4th STREET WEST DES MOINES, IA 50317

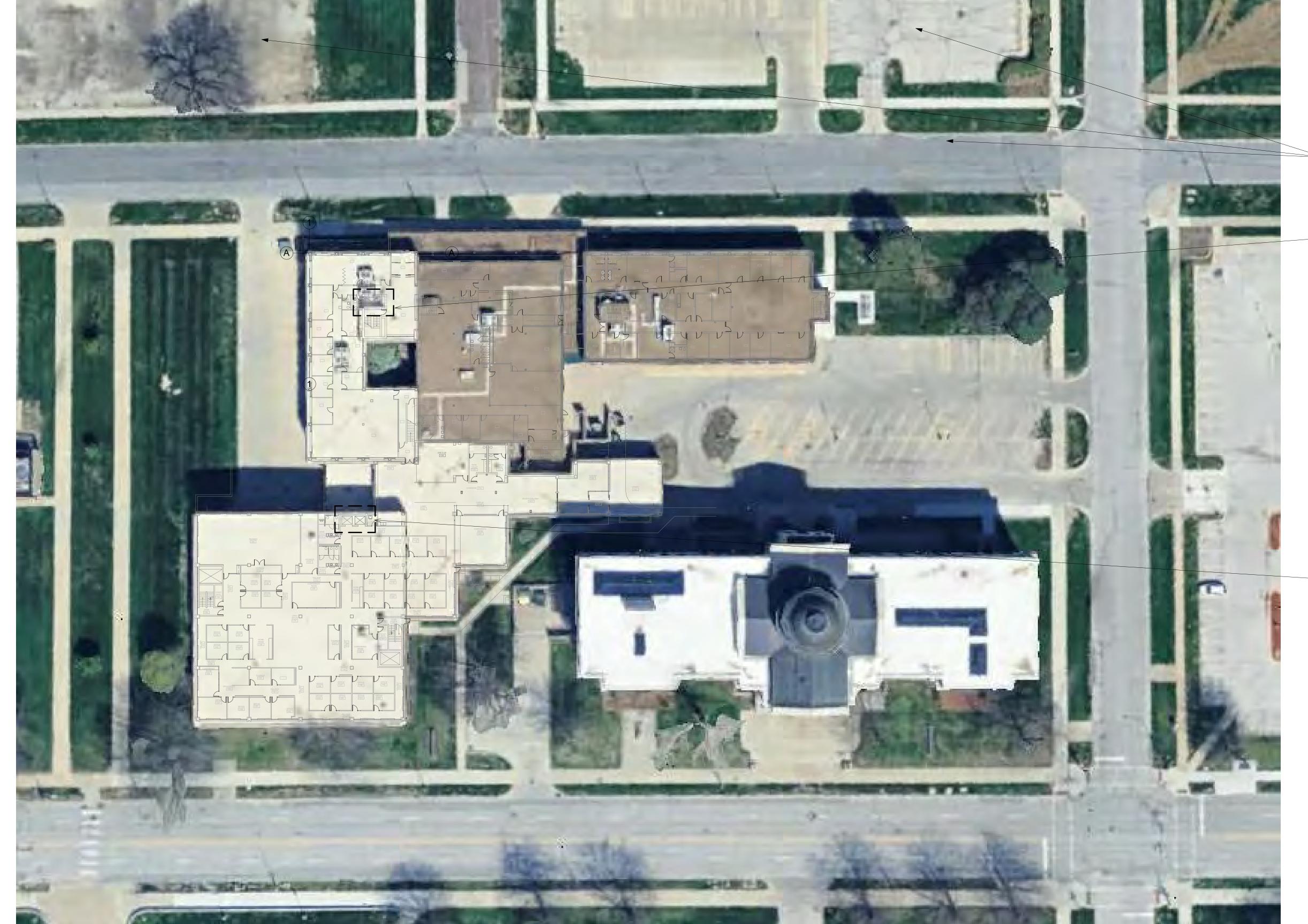
**MECHANICAL ENGINEER** 

KCL ENGINEERING 300 4th STREET WEST DES MOINES, IA 50317

**ELECTRICAL ENGINEER** 

LERCH BATES 7625 GOLDEN TRIANGLE DRIVE, SUITE T EDEN PRAIRIE, MN 55344

**ELEVATOR CONSULTANT** 



1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 24 | 25 |

CONTRACTOR PARKING AVAILABLE AT STREET AND ADJACENT LOTS TO NORTH.

NORTH PROJECT ELEVATOR - SEE AD100 / A100

SOUTH PROJECT ELEVATOR - SEE AD101 / A101

1 SITE ARIEL 1" = 30'-0" OPN

100 Court Ave., Suite 100 Des Moines, IA 50309 P: 515-309-0722

www.opnarchitects.com

All reports, plans, specifications, computer files, field data, notes and other documents and instruments prepared by OPN Architects, Inc. as instruments of service shall remain the property of OPN Architects, Inc. OPN Architects, Inc. shall retain all common law, statutory and other reserved rights, including the copyright thereto.

Owner

STATE OF IOWA

109 SE 13TH STREET
DES MOINES, IA 50319

© 2025 OPN Architects, Inc.

Project

JESSIE PARKER ELEVATOR MOD.

1000 E GRAND AVENUE

CONSTRUCTION MANAGER

DCI GROUP

220 SE 6TH STREET, SUITE 200

DES MOINES, IA 50319

DES MOINES, IA 50309

ELEVATOR CONSULTANT

LERCH BATES

7625 GOLDEN TRIANGLE DRIVE,

SUITE T
EDEN PRAIRIE, MN 55344

Mechanical Engineer

KCL ENGINEERING

WEST DES MOINES, IA 50317

300 4TH STREET

KCL ENGINEERING
300 4TH STREET
WEST DES MOINES, IA 50317

Koy Blan

**24850000** 

Sheet Issue Date

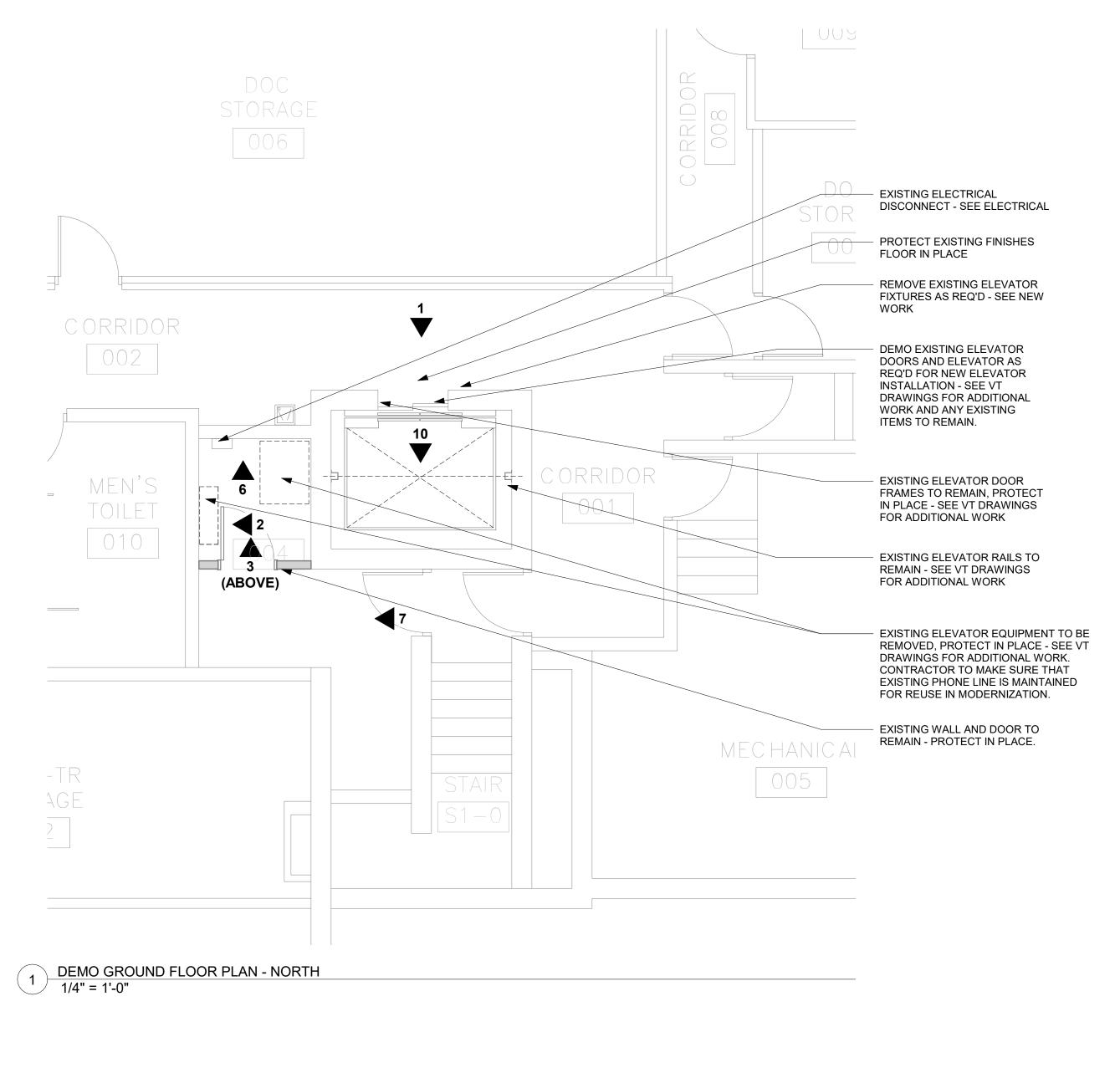
BID SET

Sheet Name
SITE LOGISTICS PLAN

....

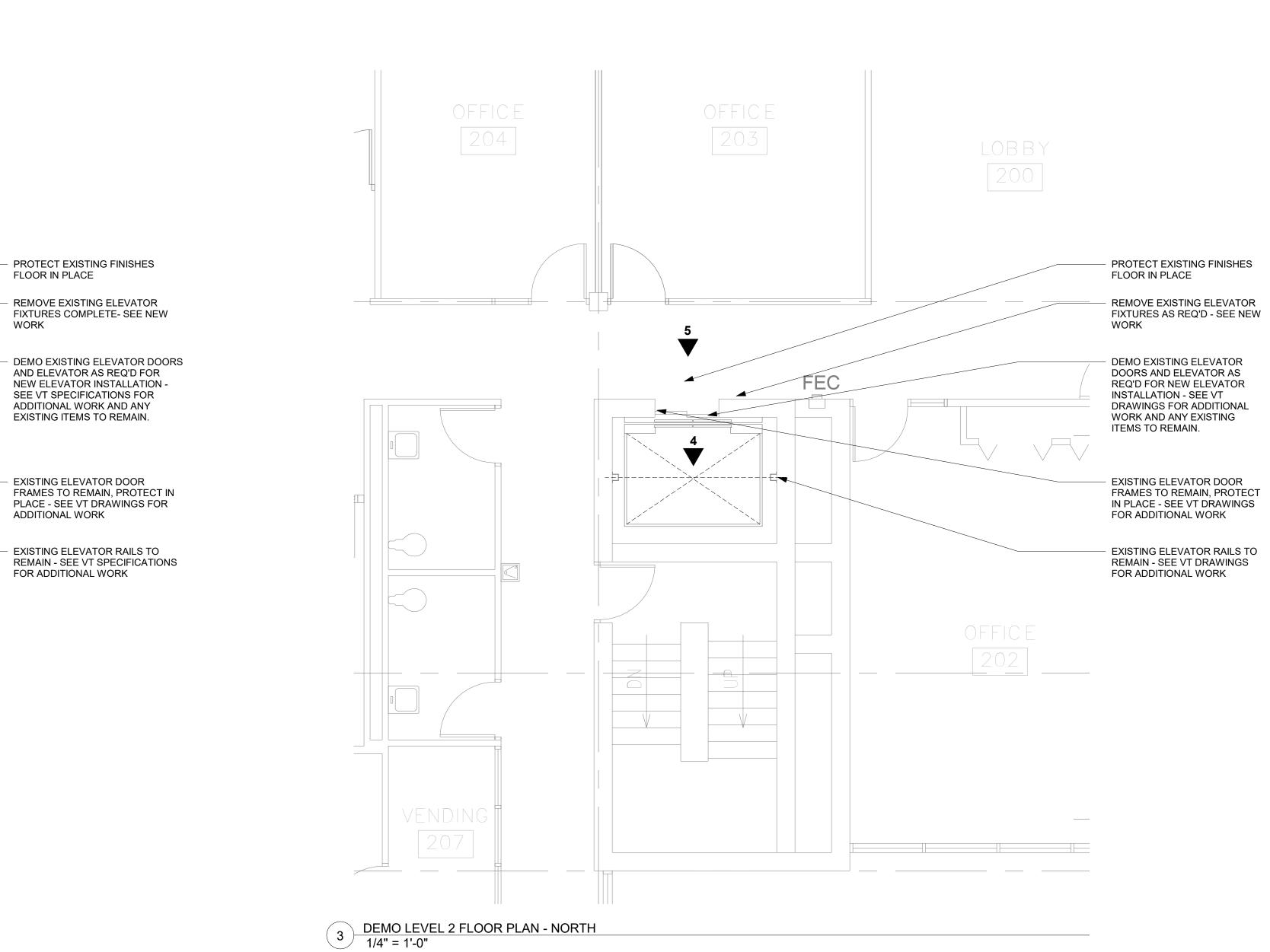
Sheet Number

AG002.6



DEMO LEVEL 1 FLOOR PLAN - NORTH

1/4" = 1'-0"



1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 25

1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 21 | 22 | 23 | 24 | 25

O P N

ARCHITECTS

100 Court Ave., Suite 100
Des Moines, IA 50309
P: 515-309-0722
www.opnarchitects.com

© 2025 OPN Architects, Inc.

All reports, plans, specifications, computer files, field data, notes and other documents and instruments prepared by OPN Architects, Inc. as instruments of service shall remain the property of OPN Architects, Inc. OPN Architects, Inc. shall retain all common law, statutory and other reserved rights, including the copyright thereto.

STATE OF IOWA

109 SE 13TH STREET
DES MOINES, IA 50319

JESSIE PARKER ELEVATOR MOD. 1000 E GRAND AVENUE DES MOINES, IA 50319

CONSTRUCTION MANAGER

DCI GROUP

220 SE 6TH STREET, SUITE 200

DCI GROUP

220 SE 6TH STREET, SUITE 200

DES MOINES, IA 50309

ELEVATOR CONSULTANT

LERCH BATES

7625 GOLDEN TRIANGLE DRIVE,
SUITE T
EDEN PRAIRIE, MN 55344

Mechanical Engineer

KCL ENGINEERING

300 4TH STREET

WEST DES MOINES, IA 50317

Electrical Engineer

KCL ENGINEERING

KCL ENGINEERING 300 4TH STREET WEST DES MOINES, IA 50317

Key Plan

Revision Description

OPN Project No. **24850000** 

Sheet Issue Date

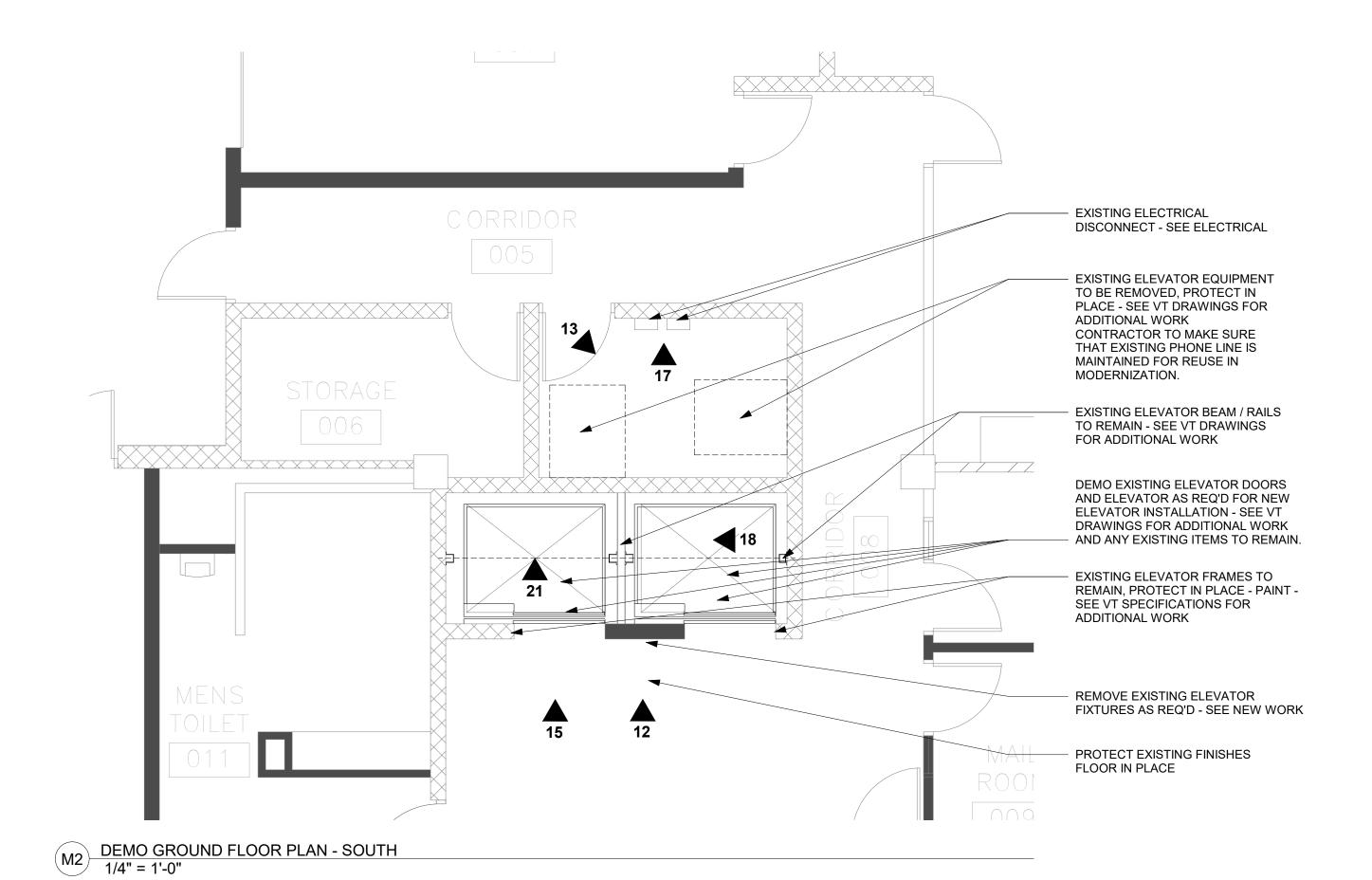
BID SET 03/14

Sheet Name

DEMO FLOOR PLANS -

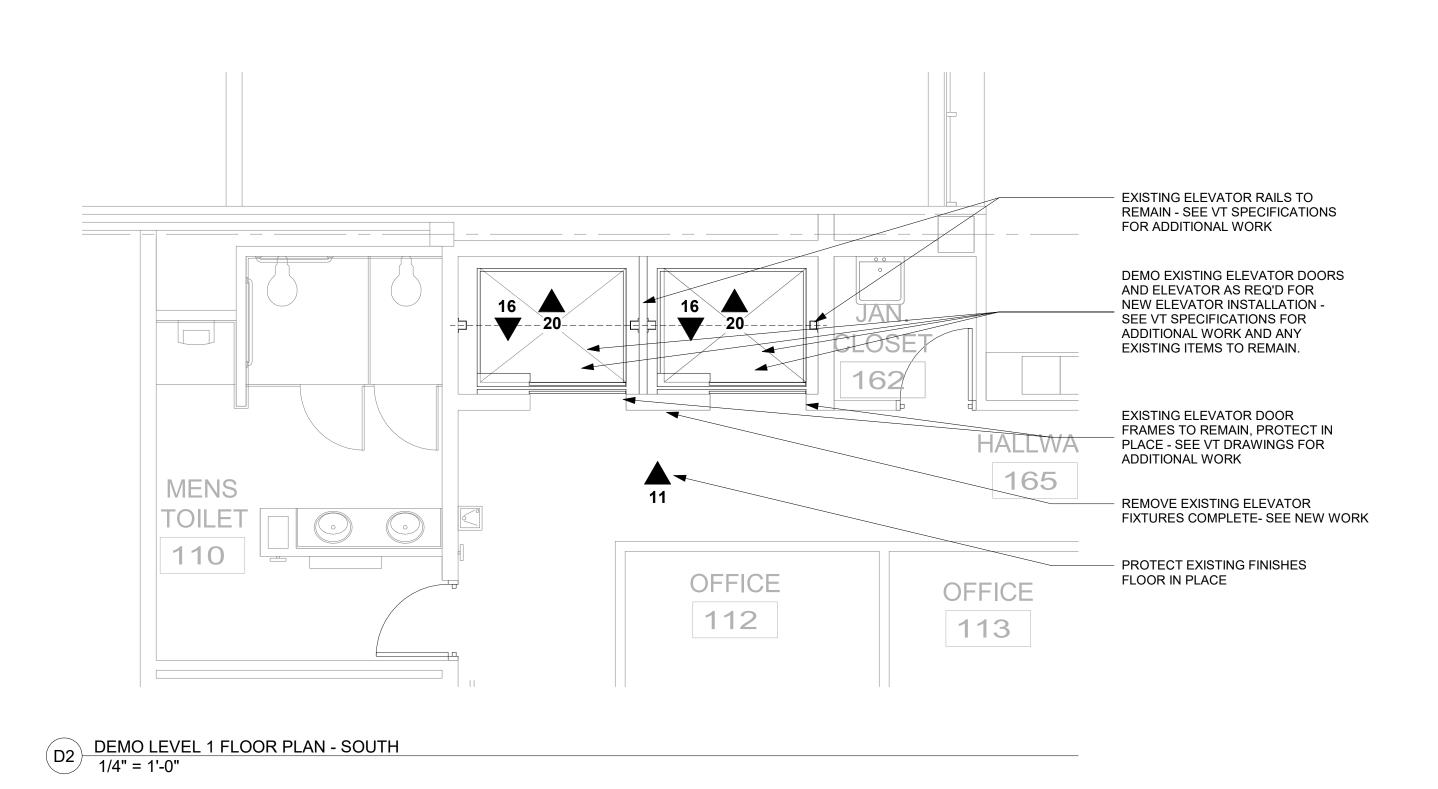
NORTH
Sheet Number

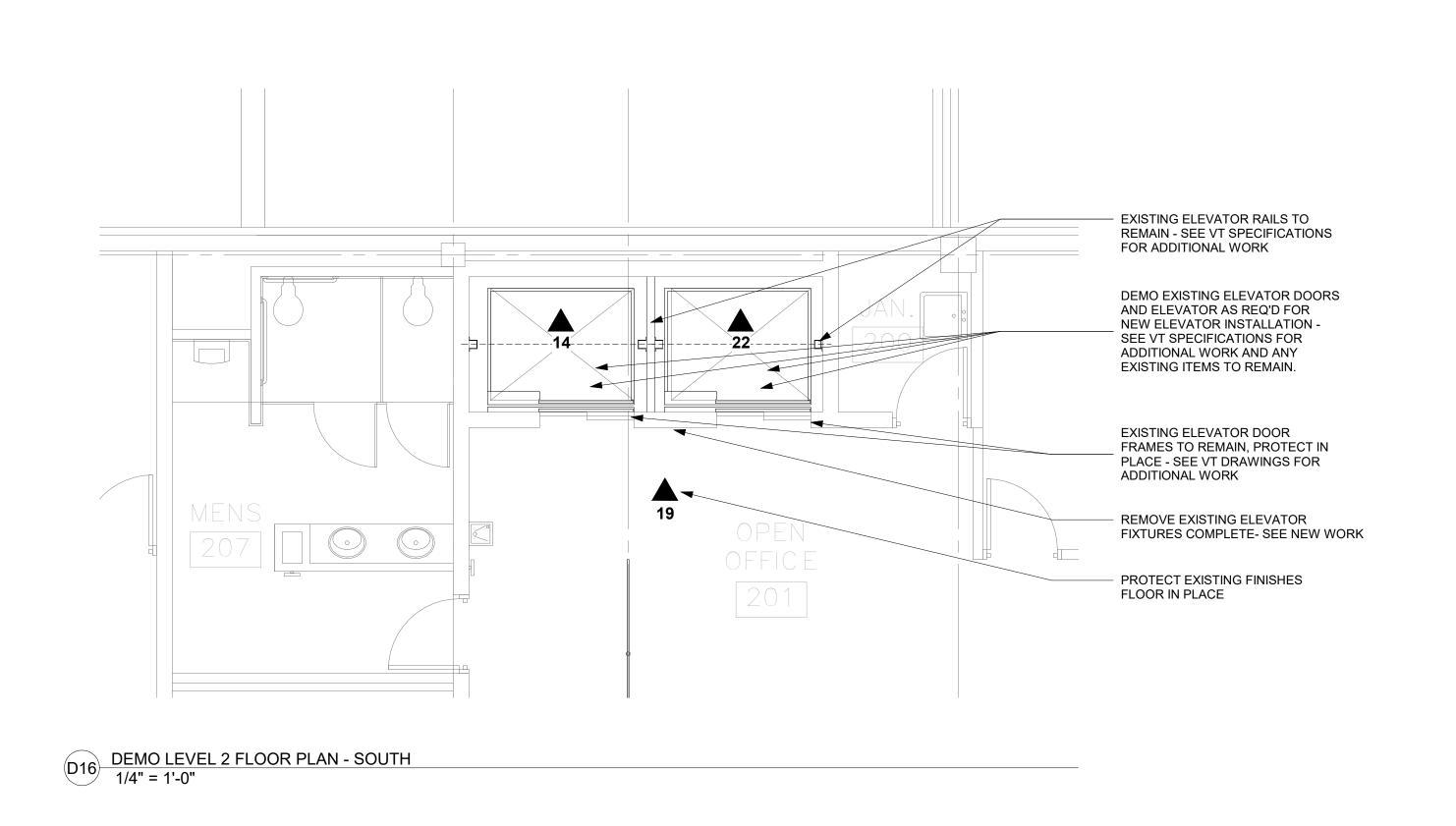
AD100.6



1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 25 | 25 |

1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 25





O P N

ARCHITECTS

100 Court Ave., Suite 100 Des Moines, IA 50309 P: 515-309-0722 www.opnarchitects.com

All reports, plans, specifications, computer files, field data, notes and other documents and instruments prepared by OPN Architects, Inc. as instruments of service shall remain the property of OPN Architects, Inc. OPN Architects, Inc. shall retain all common law, statutory and other reserved rights, including the copyright thereto.

© 2025 OPN Architects, Inc.

STATE OF IOWA

109 SE 13TH STREET
DES MOINES, IA 50319

JESSIE PARKER ELEVATOR MOD.

1000 E GRAND AVENUE
DES MOINES, IA 50319

construction Manager

DCI GROUP

220 SE 6TH STREET, SUITE 200

220 SE 6TH STREET, SUITE 200
DES MOINES, IA 50309

ELEVATOR CONSULTANT

LERCH BATES
7625 GOLDEN TRIANGLE DRIVE,
SUITE T
EDEN PRAIRIE, MN 55344

Mechanical Engineer

KCL ENGINEERING
300 4TH STREET
WEST DES MOINES, IA 50317

KCL ENGINEERING
300 4TH STREET
WEST DES MOINES, IA 50317

Key Plan

Revision Description

OPN Project No. **24850000** 

Sheet Issue Date
BID SET

DEMO FLOOR PLANS SOUTH

Sheet Number

AD101.6

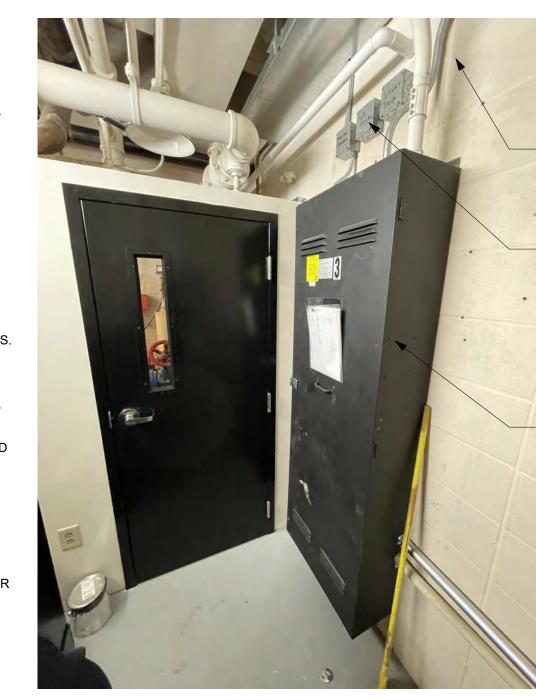
EXISTING FRAME TO REMAIN - SEE VT SPECIFICATIONS FOR FULL SCOPE OF WORK - PROTECT EXISTING METAL FRAME DURING CONSTRUCTION. PREP FRAMES TO RECEIVE NEW PAINT - FILL IN ANY SCRATCHES / DINGS IN FRAMES AS REQUIRED. TYPICAL ALL FRAMES. PROVIDE NEW DOORS TO MATCH.

REMOVE AND REPLACE ELEVATOR SIGNAGE COMPLETE - TYP. ALL DOORS.

PROVIDE NEW ELEVATOR CONTROLS. SIZE AS REQ'D TO COVER EXISTING PENETRATIONS AND ACCOMMODATE NEW CONTROLS AND CODE REQUIRED SIGNAGE. PROVIDE WITH STAINLESS STEEL FIXTURES AT ALL FLOORS. SURFACE MOUNTED FIXTURES ARE ACCEPTABLE.

PROTECT IN PLACE EXISTING FLOORING & WALL BASE AS REQ'D FOR CONSTRUCTION - CONTRACTOR TO PROVIDE PLASTIC COVER OVER CARPET AND LAY DOWN A PLYWOOD WORK SURFACE OVER THE TOP

2 IMAGE 2



PROVIDE NEW DRYWALL CEILING IN SPACE TO SEPARATE MACHINE ROOM FROM PIPING DUCTWORK ABOVE. SIZE METAL FRAMING TO BE SIZED TO PROVIDE A 300 LB LIVE LOAD. PROVIDE (1) LAYER EACH SIDE OF STUDS WITH LÁYER OF DRYWALL ON TOP.

1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 25 | 25 |

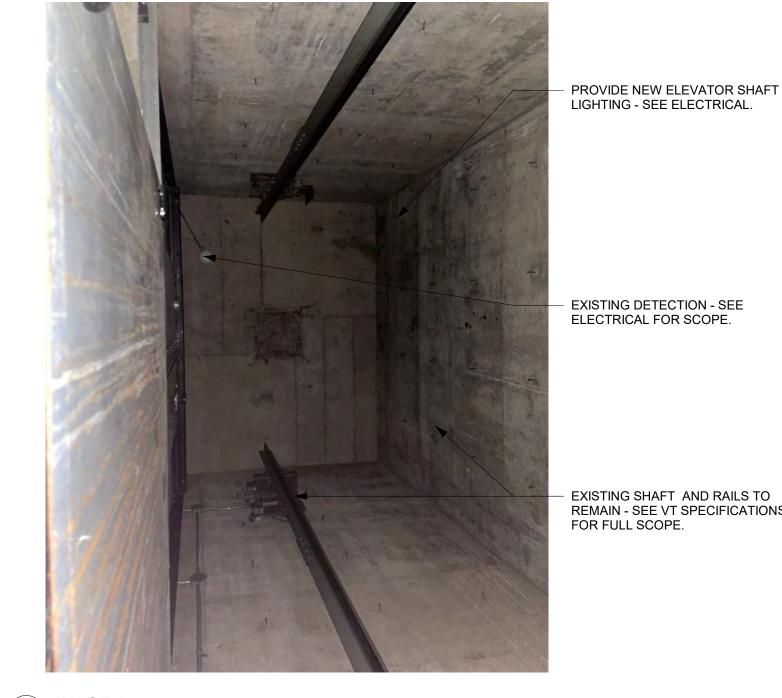
REVISE CONNECTIONS AS REQUIRED FOR NEW MACHINE ROOM CEILING.

DEMO EXISTING ELEVATOR EQUIPMENT COMPLETE AND PROVIDE NEW - SEE VT SPECIFICATIONS FOR COMPLETE SCOPE.



PROVIDE NEW DRYWALL CEILING IN SPACE TO SEPARATE MACHINE ROOM FROM PIPING DUCTWORK ABOVE. SIZE METAL FRAMING TO BE SIZED TO PROVIDE A 300 LB LIVE LOAD. PROVIDE (1) LAYER EACH SIDE OF STUDS WITH LAYER OF DRYWALL ON TOP.

ADJUST DETECTION AND LIGHTING AS REQUIRED FOR NEW CEILING.



- EXISTING SHAFT AND RAILS TO REMAIN - SEE VT SPECIFICATIONS

100 Court Ave., Suite 100 Des Moines, IA 50309 P: 515-309-0722

www.opnarchitects.com

rights, including the copyright thereto.

© 2025 OPN Architects, Inc.

STATE OF IOWA

109 SE 13TH STREET

DES MOINES, IA 50319

1000 E GRAND AVENUE

DES MOINES, IA 50319

CONSTRUCTION MANAGER

ELEVATOR CONSULTANT

**LERCH BATES** 

Mechanical Engineer

Electrical Engineer

KCL ENGINEERING 300 4TH STREET

KCL ENGINEERING 300 4TH STREET

SUITE T

DES MOINES, IA 50309

**DCI GROUP** 

JESSIE PARKER ELEVATOR MOD.

220 SE 6TH STREET, SUITE 200

7625 GOLDEN TRIANGLE DRIVE,

EDEN PRAIRIE, MN 55344

WEST DES MOINES, IA 50317

WEST DES MOINES, IA 50317

Owner

All reports, plans, specifications, computer files, field data, notes and other documents and instruments prepared by OPN Architects, Inc. as instruments of service shall remain

the property of OPN Architects, Inc. OPN Architects, Inc.

shall retain all common law, statutory and other reserved

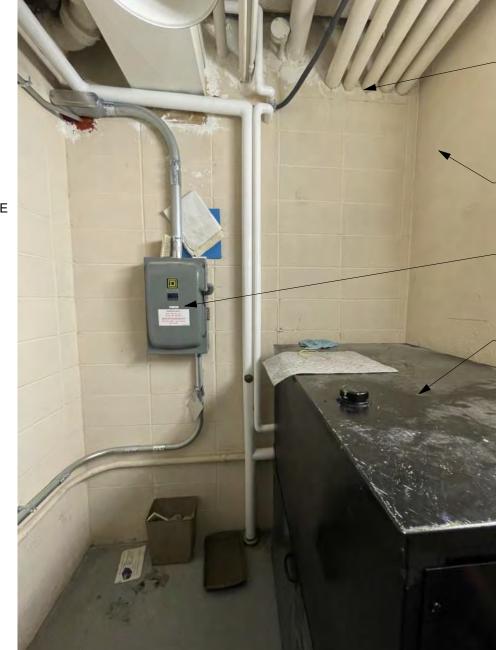
REMOVE AND REPLACE EXISTING **ELEVATOR SIGNALS - COORDINATE** LOCATION OF NEW SIGNAGE WITH CURRENT LOCATION - STAINLESS ALL NEW FIXTURES TO BE RECESSED -

EXISTING FRAME TO REMAIN - SEE VT SPECIFICATIONS FOR FULL SCOPE OF WORK - PROTECT EXISTING METAL FRAME DURING CONSTRUCTION. PROVIDE NEW ST. STL DOOR TO MATCH. TYPICAL AT BOTH UPPER FLOORS.

REMOVE AND REPLACE ELEVATOR SIGNAGE COMPLETE - TYP. ALL DOORS.

PROVIDE NEW ELEVATOR CONTROLS.
SIZE AS REQ'D TO COVER EXISTING PENETRATIONS AND ACCOMMODATE NEW CONTROLS AND CODE REQUIRED SIGNAGE. PROVIDE WITH STAINLESS STEEL FIXTURES AT ALL FLOORS. SURFACE MOUNTED FIXTURES ARE ACCEPTABLE.

PROTECT IN PLACE EXISTING FLOORING AS REQ'D FOR CONSTRUCTION - CONTRACTOR TO PROVIDE PLASTIC COVER OVER CARPET AND LAY DOWN A PLYWOOD WORK SURFACE OVER THE TOP

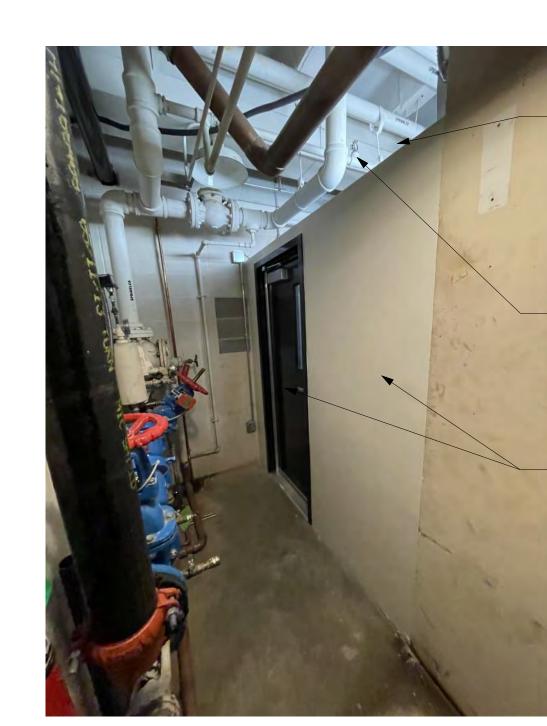


PROVIDE NEW DRYWALL CEILING IN SPACE TO SEPARATE MACHINE ROOM FROM PIPING DUCTWORK ABOVE. SIZE METAL FRAMING TO PROVIDE A 300 LB LIVE LOAD. PROVIDE (1) LAYER DRYWALL AT EACH SIDE OF STUDS WITH LAYER OF PLYWOOD ON TOP.

PROVIDE NEW MACHINE ROOM - CONDITIONING - SEE MECHANICAL.

EXISTING ELECTRICAL - DISCONNECTS - SEE ELECTRICAL.

DEMO EXISTING ELEVATOR EQUIPMENT COMPLETE AND PROVIDE NEW - SEE VT SPECIFICATIONS FOR COMPLETE SCOPE.



PROVIDE NEW DRYWALL CEILING IN SPACE TO SEPARATE MACHINE ROOM FROM PIPING DUCTWORK ABOVE. SIZE METAL FRAMING TO BE SIZED TO PROVIDE A 300 LB LIVE LOAD. PROVIDE (1) LAYER EACH SIDE OF STUDS WITH LÁYER OF DRYWALL ON TOP. HEIGHT TO ALIGN WITH TOP OF EXISTING WALL. VERIFY ALL CODE

REQUIRED CLEARANCES ARE MET.

ADJUSTMENT AND LAYOUT OF SPRINKLER WORK WILL BE COORDINATED AND PERFORMED BY OWNER. GENERAL CONTRACTOR TO BE RESPONSIBLE FOR SEALING ALL RELATED PENETRATIONS.

EXISTING ELEVATOR MACHINE ROOM DIVIDER WALL AND DOOR.



8 IMAGE 8

PROVIDE ALL NEW FINISHES IN ELEVATOR CAB - SEE ELEVATIONS AND VT SPECIFICATIONS.

PROVIDE NEW ELEVATOR CONTROL PANEL IN CAB - SEE VT SPECIFICATIONS FOR REQUIREMENTS. MATCH FLOOR DESIGNATIONS.

PROVIDE NEW ST. STL ENTRY DOOR.

PROVIDE NEW RESILIENT FLOORING - SEE SPECIFICATIONS.



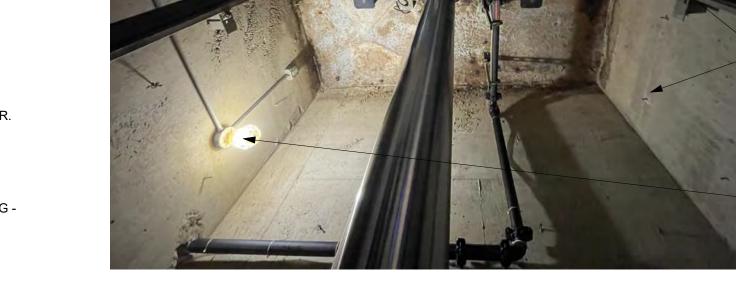
ELEVATOR CAB - SEE ELEVATIONS AND VT SPECIFICATIONS.

PROVIDE ALL NEW FINISHES IN

PROVIDE NEW ELEVATOR CONTROL PANEL IN CAB - SEE VT SPECIFICATIONS FOR REQUIREMENTS. MATCH FLOOR DESIGNATIONS.

PROVIDE NEW ST. STL ENTRY DOOR.

PROVIDE NEW RESILIENT FLOORING - SEE SPECIFICATIONS.



10 IMAGE 10

REMOVE AND PROVIDE NEW CODE COMPLIANT ELEVATOR PIT LADDER.

- EXISTING SHAFT AND RAILS TO REMAIN - SEE VT SPECIFICATIONS FOR FULL SCOPE.

PROVIDE NEW ELEVATOR SHAFT LIGHTING - SEE ELECTRICAL.

Sheet Issue Date

OPN Project No.

24850000

Sheet Name

Sheet Number

Key Plan

**EXISTING CONDITIONS** 

AD200.6

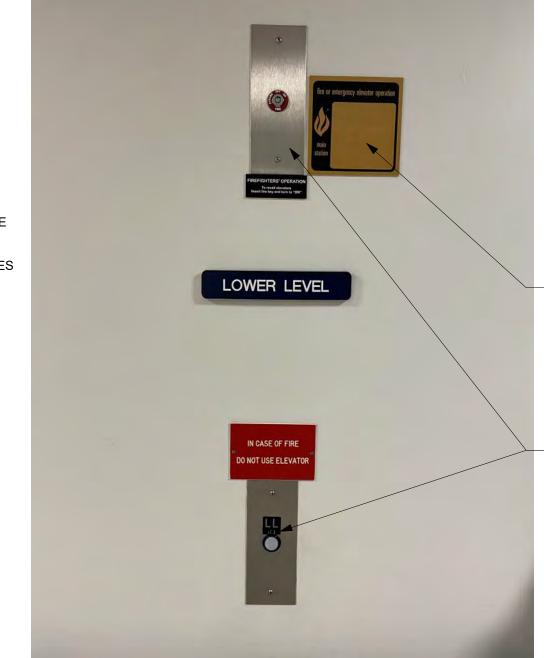
REMOVE AND REPLACE EXISTING **ELEVATOR SIGNALS - COORDINATE** LOCATION OF NEW SIGNAGE WITH CURRENT LOCATION - STAINLESS STEEL FINISH. ALL NEW FIXTURES TO BE RECESSED -

EXISTING FRAME TO REMAIN - SEE VT SPECIFICATIONS FOR FULL SCOPE OF WORK - PROTECT EXISTING METAL FRAME DURING CONSTRUCTION. PREP FRAMES TO RECEIVE NEW PAINT -FILL IN ANY SCRATCHES / DINGS IN FRAMES AS REQUIRED. TYPICAL ALL FRAMES. PROVIDE NEW FINISHED DOORS TO

REMOVE AND REPLACE ELEVATOR SIGNAGE COMPLETE - TYP. ALL DOORS.

PROVIDE BACKPLATE FOR NEW ELEVATOR CONTROLS. SIZE AS REQ'D TO COVER EXISTING PENETRATIONS - AND ACCOMMODATE NEW CONTROLS AND CODE REQUIRED SIGNAGE. PROVIDE WITH STAINLESS STEEL FIXTURES AT ALL FLOORS.

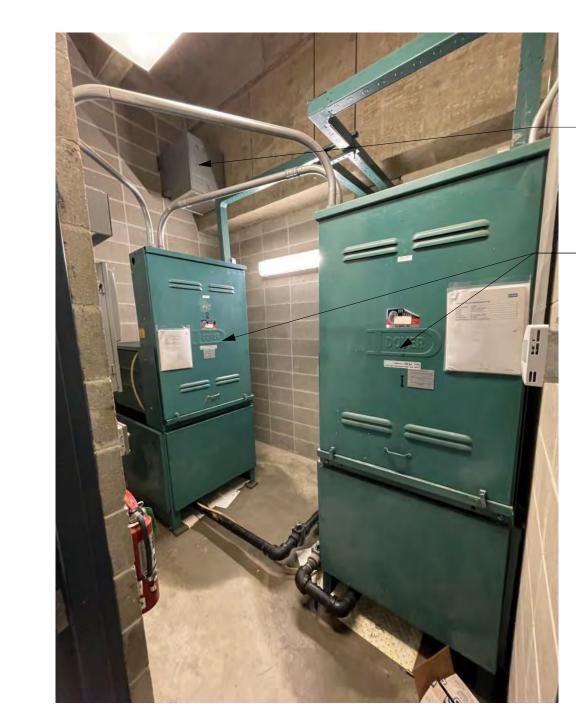
PROTECT IN PLACE EXISTING FLOORING & WALL BASE AS REQ'D FOR CONSTRUCTION - CONTRACTOR TO PROVIDE PLASTIC COVER OVER CARPET AND LAY DOWN A PLYWOOD WORK SURFACE OVER THE TOP



REMOVE AND REPLACE ELEVATOR SIGNAGE COMPLETE - TYP.

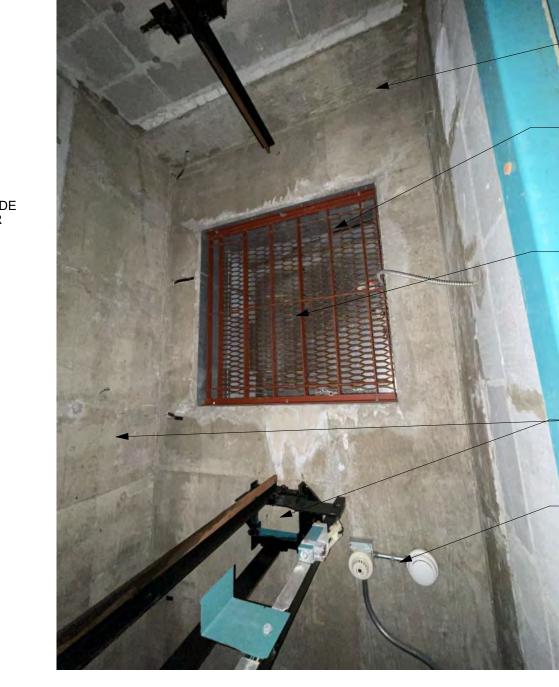
1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 21 | 22 | 23 | 24 | 25

PROVIDE BACKPLATE FOR NEW ELEVATOR CONTROLS. SIZE AS REQ'D TO COVER EXISTING PENETRATIONS AND ACCOMMODATE NEW CONTROLS AND CODE REQUIRED SIGNAGE. PROVIDE WITH STAINLESS STEEL FIXTURES AT ALL FLOORS.



EXISTING MACHINE ROOM VENTILATION TO REMAIN.

DEMO EXISTING ELEVATOR EQUIPMENT COMPLETE AND PROVIDE NEW - SEE VT SPECIFICATIONS FOR COMPLETE SCOPE.



PROVIDE NEW ELEVATOR SHAFT LIGHTING - SEE ELECTRICAL.

- AT ROOF, REMOVE VENT

WEATHER BARRIER AND

WEATHER TIGHT SHEET

EXISTING SHAFT AND

RAILS TO REMAIN - SEE

COVER, PROVIDE A

METAL CAP.

FULL SCOPE.

**DETECTION - SEE** ELECTRICAL.

© 2025 OPN Architects, Inc. INTENT IS TO CLOSE OFF EXHAUST VENT. PROVIDE BREAK METAL Owner CLOSURE AT INTERIOR OF SPACE, STATE OF IOWA AND FILL CAVITY WITH RIGID 109 SE 13TH STREET INSULATION AND SPRAY FOAM. DES MOINES, IA 50319

JESSIE PARKER ELEVATOR MOD.

CONSTRUCTION MANAGER **DCI GROUP** 

DES MOINES, IA 50309 VT SPECIFICATIONS FOR ELEVATOR CONSULTANT EXISTING ELEVATOR

**LERCH BATES** 7625 GOLDEN TRIANGLE DRIVE, SUITE T

220 SE 6TH STREET, SUITE 200

1000 E GRAND AVENUE

DES MOINES, IA 50319

100 Court Ave., Suite 100 Des Moines, IA 50309 P: 515-309-0722

www.opnarchitects.com

rights, including the copyright thereto.

All reports, plans, specifications, computer files, field data,

notes and other documents and instruments prepared by OPN Architects, Inc. as instruments of service shall remain

the property of OPN Architects, Inc. OPN Architects, Inc.

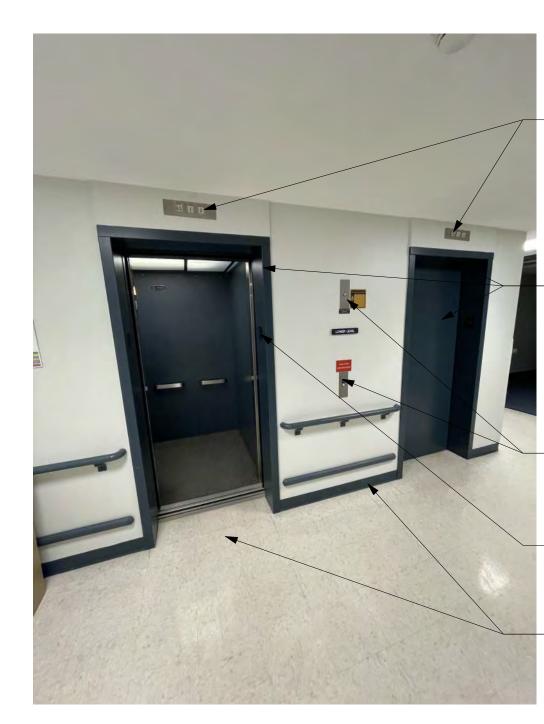
shall retain all common law, statutory and other reserved

EDEN PRAIRIE, MN 55344 Mechanical Engineer KCL ENGINEERING

300 4TH STREET WEST DES MOINES, IA 50317 Electrical Engineer KCL ENGINEERING

WEST DES MOINES, IA 50317

300 4TH STREET



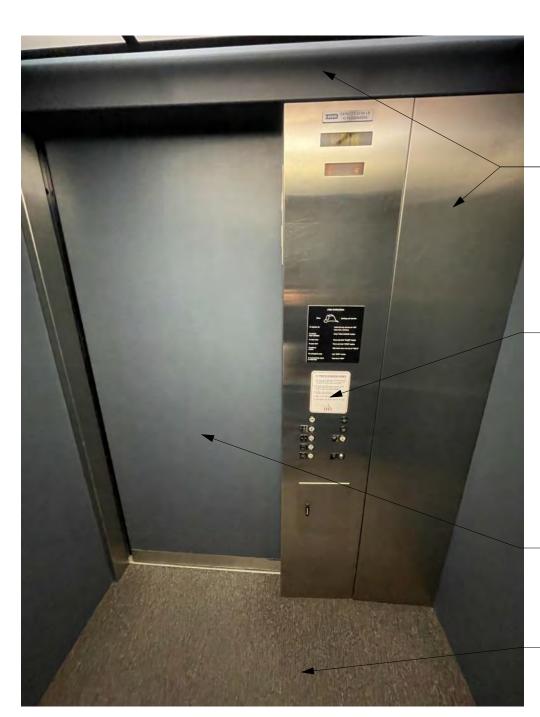
REMOVE AND REPLACE EXISTING ELEVATOR SIGNALS - COORDINATE LOCATION OF NEW SIGNAGE WITH **CURRENT LOCATION - STAINLESS** STEEL FINISH. ALL NEW FIXTURES TO BE RECESSED -

EXISTING FRAME TO REMAIN - SEE VT SPECIFICATIONS FOR FULL SCOPE OF WORK - PROTECT EXISTING METAL FRAME DURING CONSTRUCTION. PREP FRAMES TO RECEIVE NEW PAINT -FILL IN ANY SCRATCHES / DINGS IN FRAMES AS REQUIRED. TYPICAL ALL FRAMES. PROVIDE NEW DOORS TO MATCH.

PROVIDE BACKPLATE FOR NEW ELEVATOR CONTROLS. SIZE AS REQ'D TO COVER EXISTING PENETRATIONS AND ACCOMMODATE NEW CONTROLS AND CODE REQUIRED SIGNAGE. PROVIDE WITH STAINLESS STEEL FIXTURES AT ALL FLOORS.

REMOVE AND REPLACE ELEVATOR SIGNAGE COMPLETE - TYP. ALL DOORS.

PROTECT IN PLACE EXISTING FLOORING & WALL BASE AS REQ'D FOR CONSTRUCTION - CONTRACTOR TO PROVIDE PLASTIC COVER OVER CARPET AND LAY DOWN A PLYWOOD WORK SURFACE OVER THE TOP



PROVIDE ALL NEW FINISHES IN ELEVATOR CAB - SEE ELEVATIONS AND VT SPECIFICATIONS.

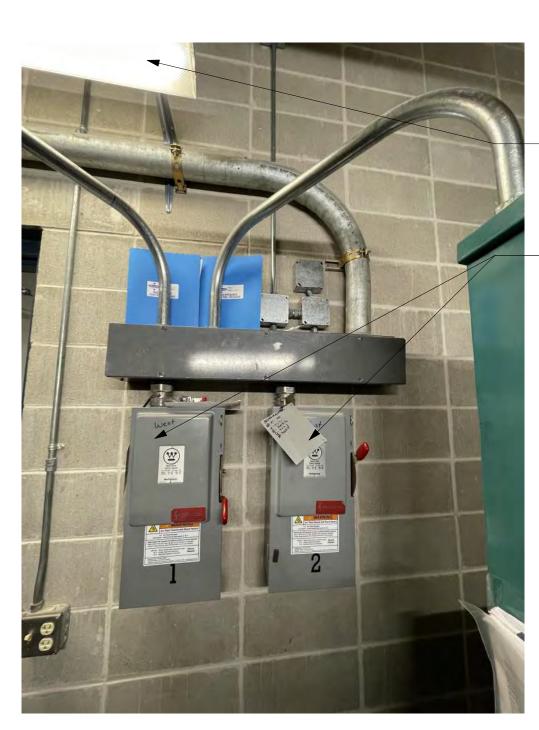
13 IMAGE 13

17 IMAGE 17

PROVIDE NEW ELEVATOR CONTROL PANEL IN CAB - SEE VT SPECIFICATIONS FOR REQUIREMENTS. MATCH FLOOR DESIGNATIONS.

- PROVIDE NEW ST. STL ENTRY DOOR.

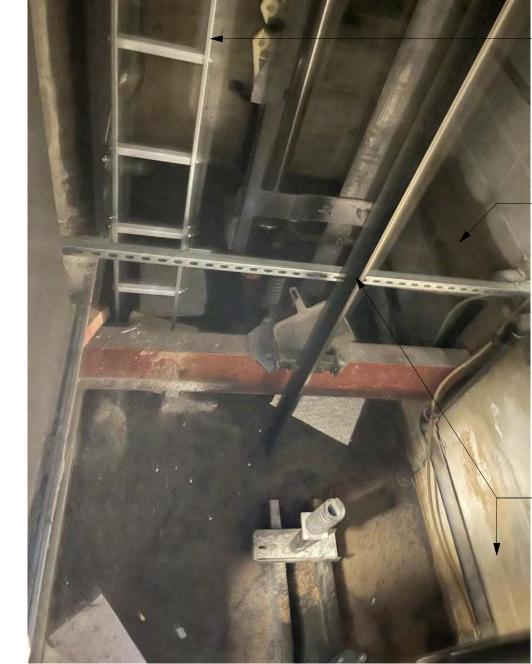
PROVIDE NEW RESILIENT FLOORING -SEE SPECIFICATIONS.



EXISTING MACHINE ROOM LIGHTING -SEE ELECTRICAL.

EXISTING ELECTRICAL

DISCONNECTS - SEE ELECTRICAL.



PROVIDE NEW ELEVATOR SHAFT LIGHTING - SEE

ELECTRICAL.

REMOVE AND PROVIDE

NEW CODE COMPLIANT

ELEVATOR PIT LADDER.

 EXISTING SHAFT AND RAILS TO REMAIN - SEE VT SPECIFICATIONS FOR FULL SCOPE.

- EXISTING SHAFT AND

FULL SCOPE.

RAILS TO REMAIN - SEE

VT SPECIFICATIONS FOR



15 IMAGE 15

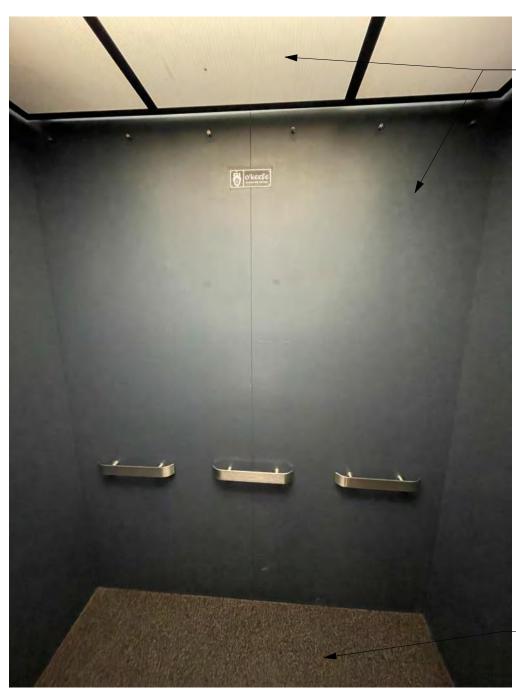
REMOVE AND REPLACE EXISTING **ELEVATOR SIGNALS - COORDINATE** LOCATION OF NEW SIGNAGE WITH **CURRENT LOCATION - STAINLESS** STEEL FINISH. ALL NEW FIXTURES TO BE RECESSED -

EXISTING FRAME TO REMAIN - SEE VT SPECIFICATIONS FOR FULL SCOPE OF WORK - PROTECT EXISTING METAL FRAME DURING CONSTRUCTION. PREP FRAMES TO RECEIVE NEW PAINT - FILL IN ANY SCRATCHES / DINGS IN FRAMES AS REQUIRED. TYPICAL ALL FRAMES. PROVIDE NEW DOORS TO MATCH.

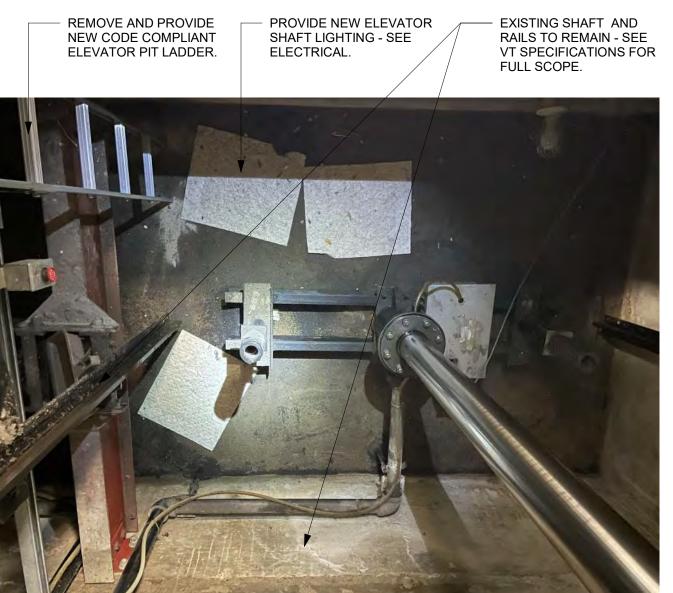
PROVIDE BACKPLATE FOR NEW ELEVATOR CONTROLS. SIZE AS REQ'D TO COVER EXISTING PENETRATIONS AND ACCOMMODATE NEW CONTROLS AND CODE REQUIRED SIGNAGE. PROVIDE WITH STAINLESS STEEL FIXTURES AT ALL FLOORS.

REMOVE AND REPLACE ELEVATOR SIGNAGE COMPLETE - TYP. ALL DOORS.

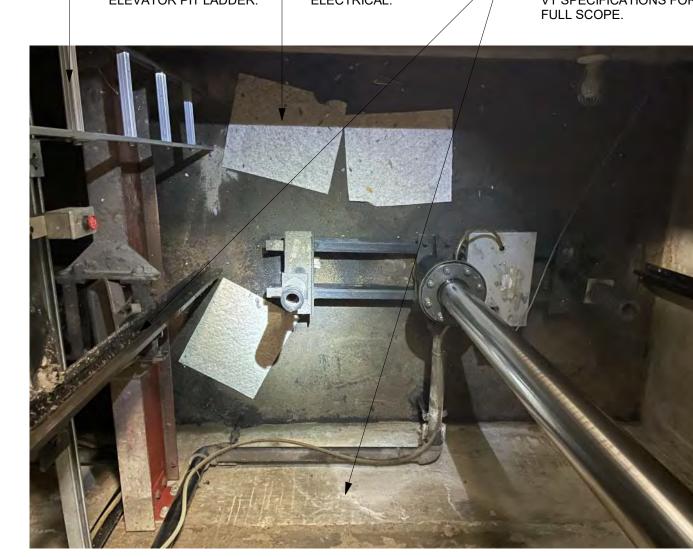
PROTECT IN PLACE EXISTING FLOORING & WALL BASE AS REQ'D FOR CONSTRUCTION - CONTRACTOR TO PROVIDE PLASTIC COVER OVER WORK SURFACE OVER THE TOP



PROVIDE ALL NEW FINISHES IN **ELEVATOR CAB - SEE ELEVATIONS** AND VT SPECIFICATIONS.



PROVIDE NEW RESILIENT
- FLOORING - SEE SPECIFICATIONS.



PROVIDE NEW ELEVATOR

SHAFT LIGHTING - SEE

ELECTRICAL.

22 IMAGE 22

Sheet Issue Date **BID SET** 

OPN Project No.

24850000

Key Plan

Revision Description

Sheet Name **EXISTING CONDITIONS** 

Sheet Number

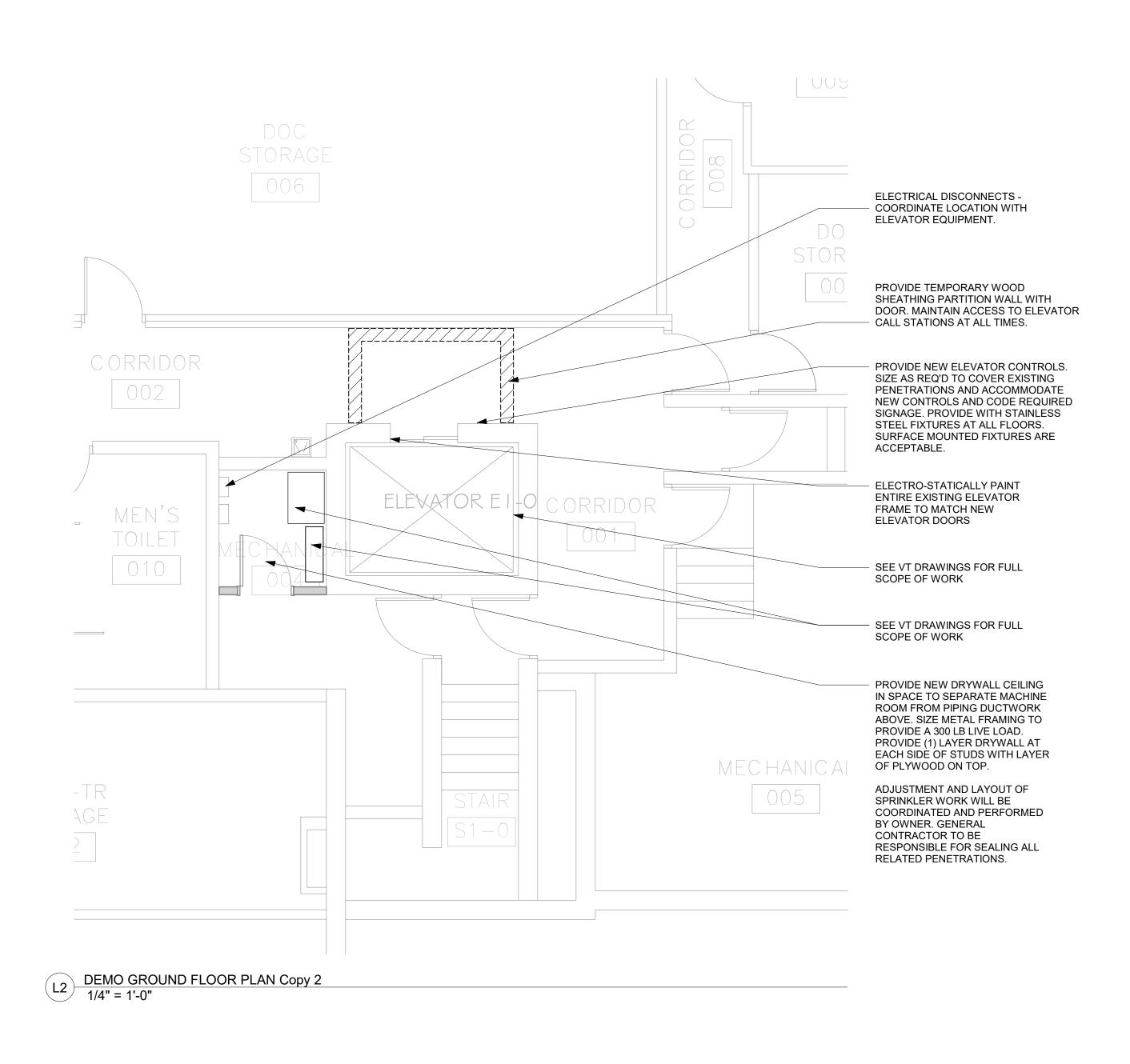
AD201.6

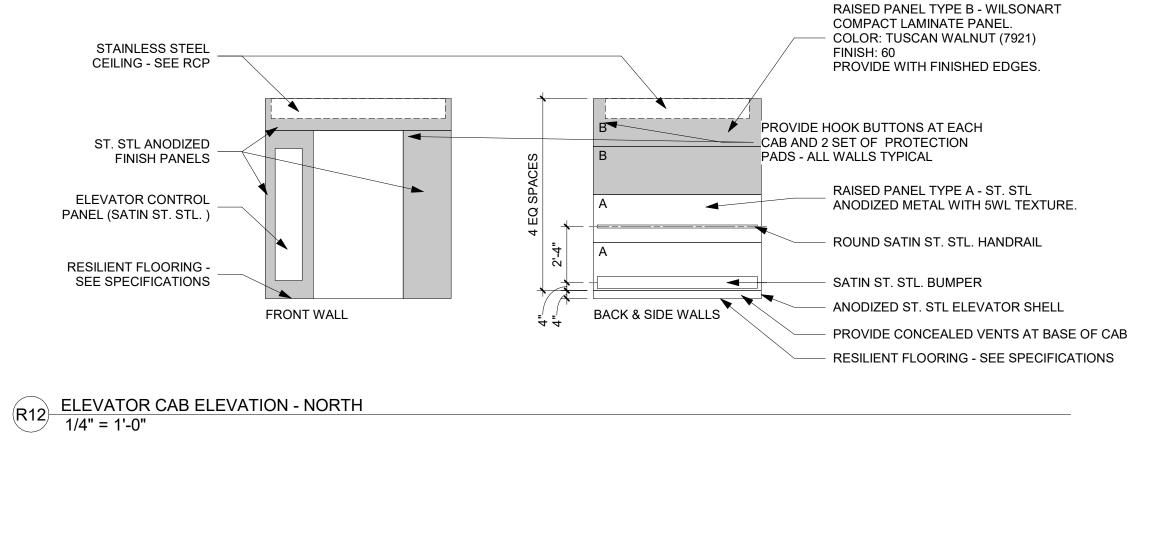
CARPET AND LAY DOWN A PLYWOOD 19 IMAGE 19

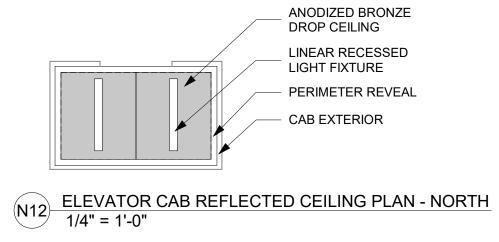
EXISTING ELEVATOR

**DETECTION - SEE** 

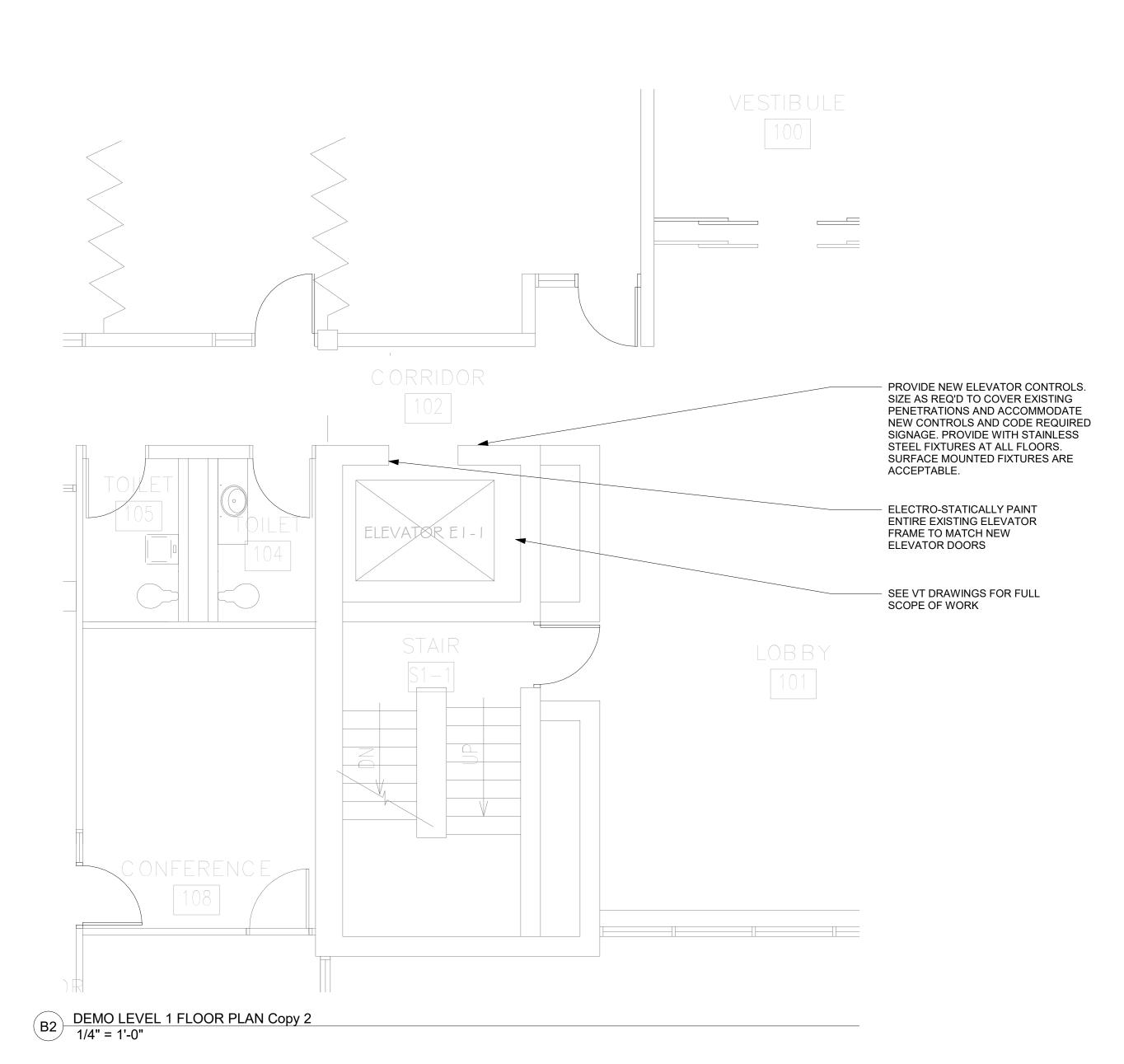
ELECTRICAL.

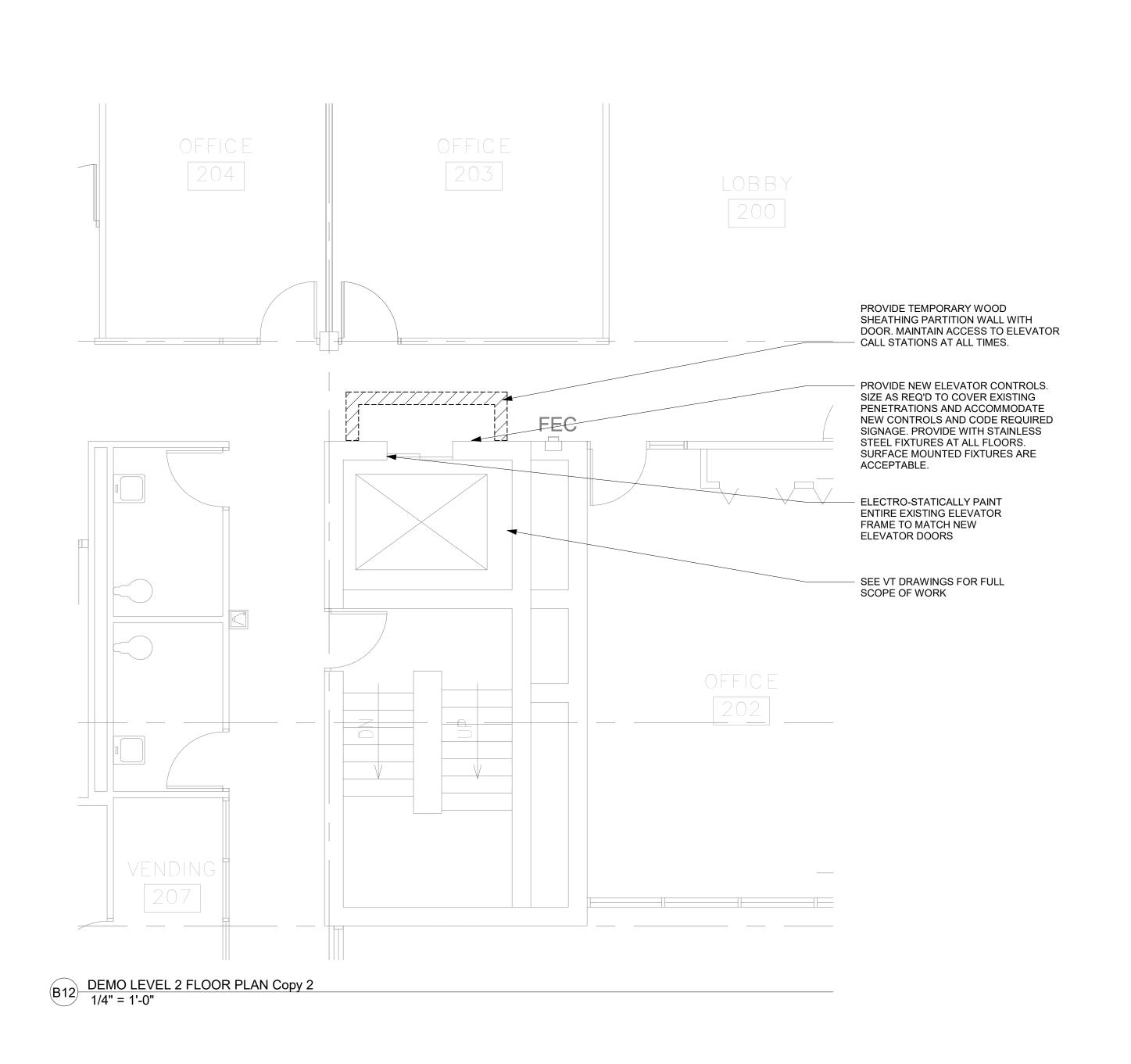






1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 21 | 22 | 23 | 24 | 25





O P N

ARCHITECTS

100 Court Ave., Suite 100 Des Moines, IA 50309 P: 515-309-0722 www.opnarchitects.com

All reports, plans, specifications, computer files, field data, notes and other documents and instruments prepared by OPN Architects, Inc. as instruments of service shall remain the property of OPN Architects, Inc. OPN Architects, Inc. shall retain all common law, statutory and other reserved rights, including the copyright thereto.

© 2025 OPN Architects, Inc.

STATE OF IOWA

109 SE 13TH STREET
DES MOINES, IA 50319

JESSIE PARKER ELEVATOR MOD.

1000 E GRAND AVENUE
DES MOINES, IA 50319

CONSTRUCTION MANAGER

DCI GROUP

220 SE 6TH STREET, SUITE 200

DCI GROUP

220 SE 6TH STREET, SUITE 200

DES MOINES, IA 50309

ELEVATOR CONSULTANT

LERCH BATES

7625 GOLDEN TRIANGLE DRIVE,

SUITE T
EDEN PRAIRIE, MN 55344

Mechanical Engineer

KCL ENGINEERING
300 4TH STREET
WEST DES MOINES, IA 50317
Electrical Engineer

300 4TH STREET WEST DES MOINES, IA 50317

KCL ENGINEERING

Key Plan

Revision Description

OPN Project No. **24850000** 

Sheet Issue Date

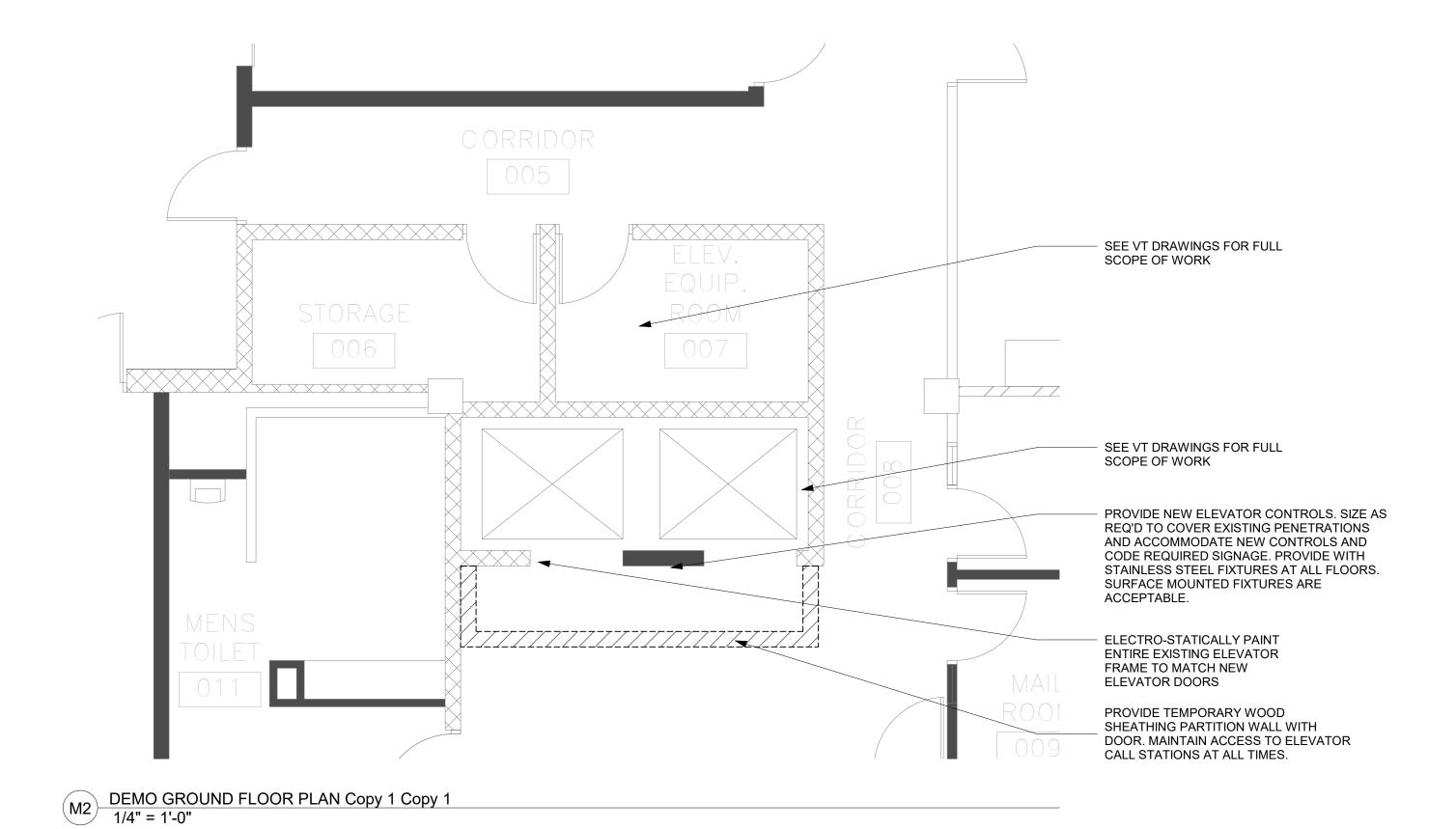
BID SET

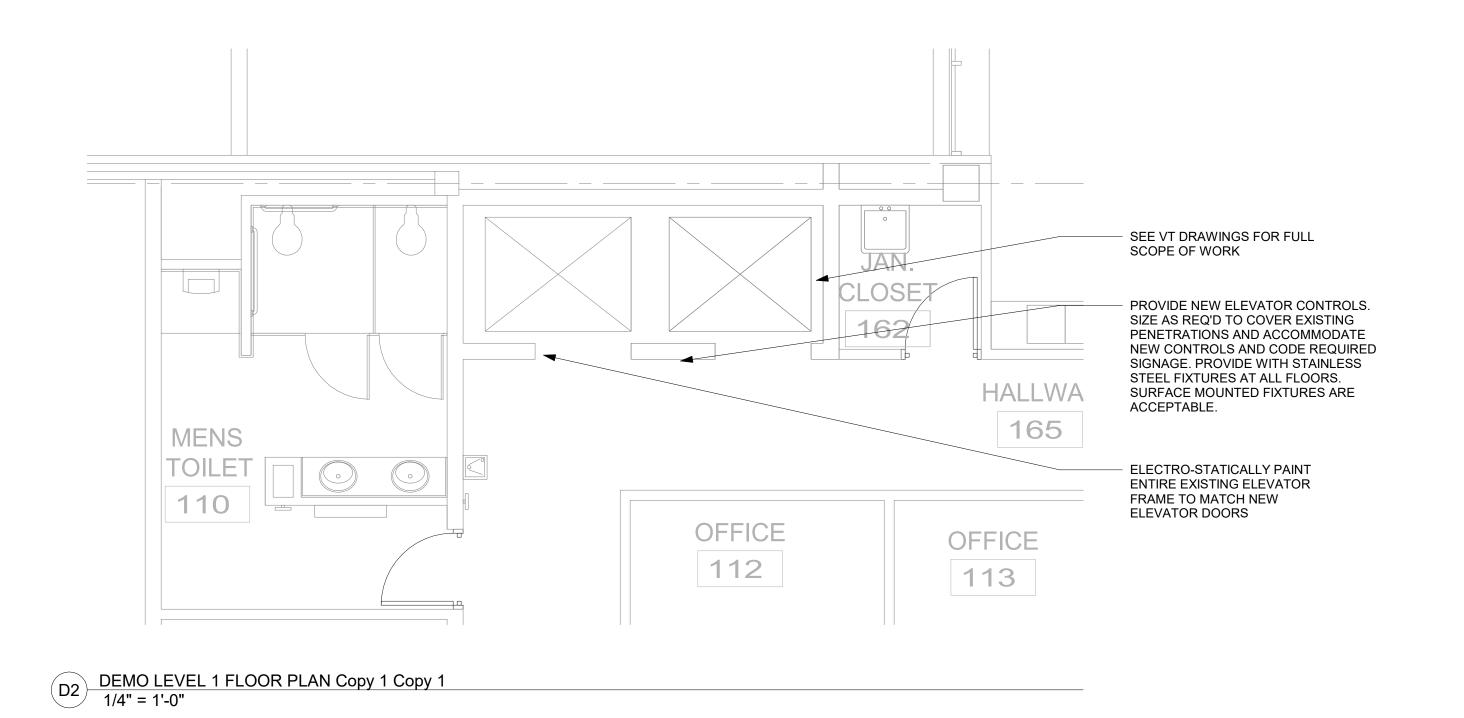
Sheet Name

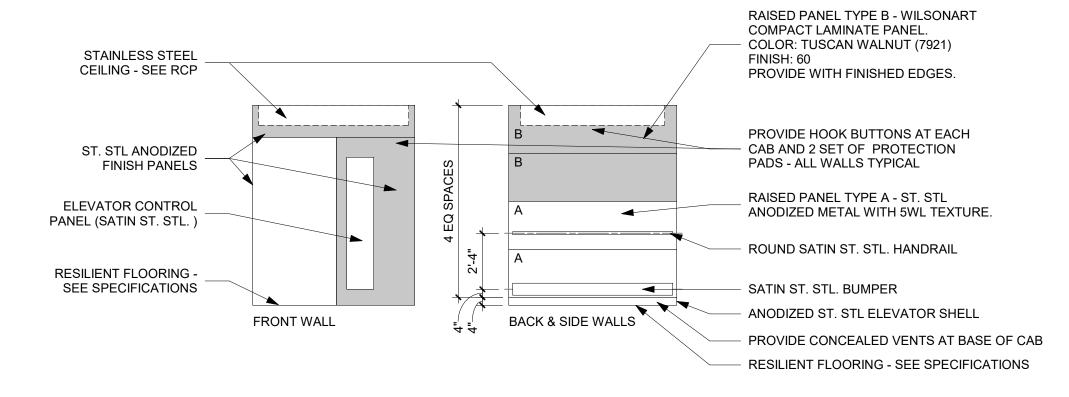
FLOOR PLANS - NORTH

Sheet Number

A100.6

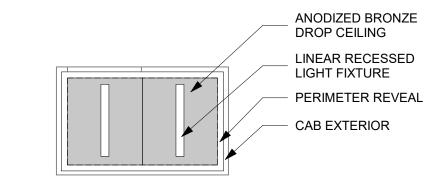




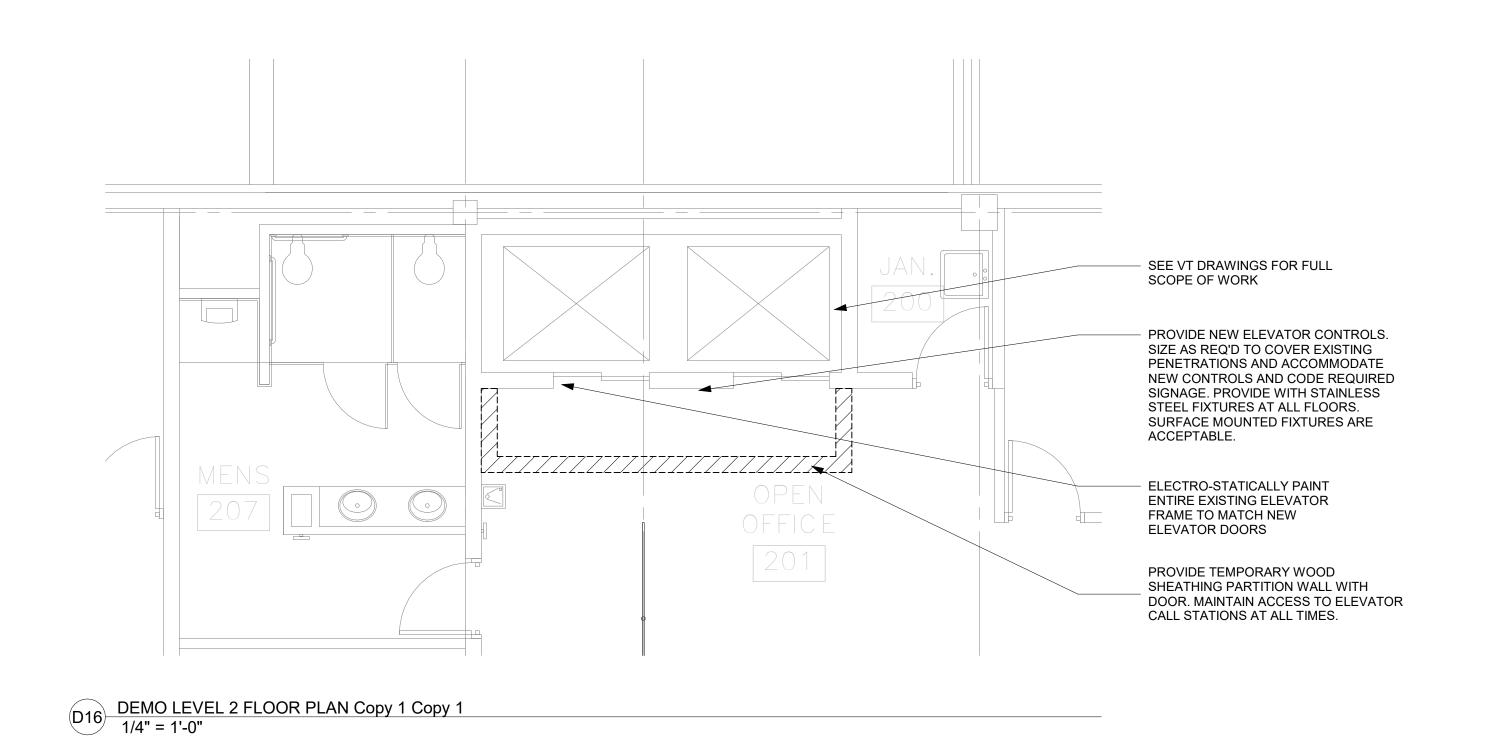


Q16 ELEVATOR CAB ELEVATION - SOUTH 1/4" = 1'-0"

1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 21 | 22 | 23 | 24 | 25



M16 ELEVATOR CAB REFLECTED CEILING PLAN - SOUTH 1/4" = 1'-0"



O P N
RCHITECTS

100 Court Ave., Suite 100 Des Moines, IA 50309 P: 515-309-0722 www.opnarchitects.com

All reports, plans, specifications, computer files, field data, notes and other documents and instruments prepared by OPN Architects, Inc. as instruments of service shall remain the property of OPN Architects, Inc. OPN Architects, Inc. shall retain all common law, statutory and other reserved rights, including the copyright thereto.

© 2025 OPN Architects, Inc.

STATE OF IOWA

109 SE 13TH STREET
DES MOINES, IA 50319

Project

JESSIE PARKER ELEVATOR MOD.

1000 E GRAND AVENUE
DES MOINES, IA 50319

CONSTRUCTION MANAGER

DCI GROUP

DCI GROUP 220 SE 6TH STREET, SUITE 200 DES MOINES, IA 50309

ELEVATOR CONSULTANT

LERCH BATES

7625 GOLDEN TRIANGLE DRIVE,
SUITE T
EDEN PRAIRIE, MN 55344

Mechanical Engineer

KCL ENGINEERING

300 4TH STREET

WEST DES MOINES, IA 50317

KCL ENGINEERING
300 4TH STREET
WEST DES MOINES, IA 50317

Key Plan

Revision Description

OPN Project No. **24850000** 

Sheet Issue Date
BID SET 0

Sheet Name

FLOOR PLANS - SOUTH

Number

A101.6

#### **MECHANICAL - GENERAL NOTES**

- COORDINATE MECHANICAL AND ELECTRICAL WORK WITH ALL OTHER TRADES. BEGIN INSTALLATION AND ROUGH-IN AFTER COORDINATION WITH ALL TRADES ASSOCIATED WITH THE INSTALLATION IS COMPLETE, COORDINATE BUILDING STRUCTURE, ARCHITECTURAL ASSEMBLIES, SHEET METAL, ALL PIPING SYSTEMS, LIGHT FIXTURES, CONDUITS, CABLE TRAYS, ETC. REFER TO ALL GENERAL, MECHANICAL, AND ELECTRICAL DRAWINGS AND SPECIFICATIONS FOR THIS PROJECT. CONTRACTOR IS RESPONSIBLE FOR REWORK ASSOCIATED WITH FAILURE TO COORDINATE.
- INCORPORATE MECHANICAL SPECIFICATIONS, DRAWINGS, STATE AND LOCAL CODES, AND OWNER STANDARDS INTO WORK.
- REFER TO ARCHITECTURAL SPECIFICATIONS FOR THROUGH-PENETRATION FIRESTOPPING AND TO ARCHITECTURAL CODE PLAN FOR FIRE RATED WALLS, FLOORS, AND CEILINGS. EACH TRADE IS RESPONSIBLE TO FIRESTOP PENETRATIONS THROUGH RATED ASSEMBLIES.
- EACH TRADE IS RESPONSIBLE FOR MAKING PENETRATIONS WHERE REQUIRED IN EXISTING WALLS, FLOORS, CEILINGS, AND ROOFS. MAKE PENETRATIONS NEAT. PATCH, CONCEAL, OR CAULK OVERCUT.
- COVER EXPOSED WALL PENETRATIONS WITH ESCUTCHEONS OR SHEET METAL AS
- CAULK ALL CONCEALED AND EXPOSED PIPING AND DUCT WALL PENETRATIONS TO PREVENT NOISE TRANSFER BETWEEN SPACES.
- ON COMPLETION OF THE INSTALLATION, COOPERATE WITH THE OWNER TO PROVIDE TESTING, ADJUSTING, AND BALANCING TO OBTAIN PROPER OPERATION OF ALL EQUIPMENT AND SYSTEMS. PROVIDE ALL FACILITIES AND EQUIPMENT AND COMPLETE ALL TESTS REQUIRED FOR ADJUSTMENTS AND BALANCING TO ESTABLISH THE PROPER PERFORMANCE
- PROVIDE WARRANTIES FOR ALL EQUIPMENT AND INSTALLATION PER THE CONTRACT DOCUMENTS. CONDITIONING REFRIGERATION SYSTEMS SHALL BE WARRANTED FOR A MINIMUM OF 5 YEARS, PARTS ONLY, NON-PRORATED, FROM THE DATE OF OCCUPANCY OR SUBSTANTIAL COMPLETION, OR WHICHEVER OCCURS FIRST. THE WARRANTY SHALL COVER COMPRESSORS, EVAPORATORS, CONDENSER COILS, HIGH AND LOW SIDE PIPING, AND PIPING SPECIALTIES INCLUDING EXPANSION AND SOLENOID VALVES, RELIEF VALVES, FILTER-DRYER, AND SIGHT GLASSES. PRESSURE GAUGES AND PRESSURE SWITCHES ARE NOT UNDER THE EXTENDED WARRANTY EXCEPT FOR LOSS OF REFRIGERANT AND CONSEQUENTIAL DAMAGE TO THE SYSTEM WHICH WILL BE AN EXTENDED WARRANTY OBLIGATION. ALL DEFECTS THAT BECOME APPARENT WITHIN THE WARRANTY PERIOD SHALL BE REPAIRED BY THE MECHANICAL CONTRACTOR AS DIRECTED BY THE ENGINEER THROUGH THE OWNER'S REPRESENTATIVE. WARRANTY DOES NOT OBLIGATE THE MECHANICAL CONTRACTOR TO REPAIR DAMAGE RESULTING FROM THE OWNER'S ACCIDENT, IMPROPER OPERATION, OR FAILURE TO PROVIDE MAINTENANCE, WARRANTY COVERS DEFECTIVE MATERIAL AND INSTALLATION. REFER TO SPECIFICATIONS FOR ADDITIONAL DETAILS AND OTHER WARRANTY INFORMATION.

#### **HVAC - NOTES**

COORDINATE WORK WITH ALL OTHER TRADES AS DESCRIBED IN MECHANICAL GENERAL NOTE #1.

- PROVIDE MECHANICAL EQUIPMENT, SUPPORTS, HANGERS, AND ALL APPURTENANCES. INSTALL ALL EQUIPMENT PER MANUFACTURER'S RECOMMENDATIONS. INSTALL SYSTEM TO
- PROVIDE FIRE CAULKING ASSEMBLIES FOR PENETRATIONS OF RATED ASSEMBLIES. REFER TO ARCHITECTURAL DRAWINGS FOR ASSEMBLY RATINGS.

MEET ALL CITY AND STATE CODES AND REQUIREMENTS.

CONTINUE PIPE INSULATION THROUGH WALLS, FLOORS, AND CEILING PENETRATIONS UNBROKEN, EXCEPT WHERE FIRE OR FIRE/SMOKE DAMPERS ARE INSTALLED IN DUCTWORK.

EXTEND EXISTING SIEMENS CONTROL SYSTEM AS REQUIRED FOR ADDITIONAL SENSOR NEAR ELEVATOR EQUIPMENT.

REFERENCE	SSI-1
MANUFACTURER	MITSUBISHI
MODEL #	PKA-A24
YPE	WALL MOUNT
ERVES	HOOVER PENTHOUSE
VEIGHT (LBS)	46
IMENSIONS - L x W x D (INCHES)	46x14x11
IOMINAL CAPACITY (TONS)	2.00
IAX UNIT AIRFLOW (CFM)	775
XTERNAL STATIC PRESSURE (IN. W.G.)	0.2
OOLING CAPACITY - RATED (BTU/H)	24
EER	21.1
EFRIGERANT TYPE	R454B
OLTAGE - PH	208 - 1
ELECTRICAL DATA	
ICA	1.00
IOCP	SEE SSO SCHEDULE
IOTES	1 THROUGH 5

- 1. PROVIDE WITH REMOTE WALL MOUNTED THERMOSTAT. WIRING BY M.C. 2. INDOOR UNIT RECEIVES POWER FROM OUTDOOR UNIT BY INTERCONNECTED WIRING PROVIDED WITH UNIT, WIRING
- INSTALLATION AND DISCONNECT BY E.C.
- 3. COOLING RATED CAPACITY IS BASED ON THE FOLLOWING CONDITIONS. INDOOR: 80°F/67°FF, OUTDOOR: 95°F/75°F 4. PROVIDE FILTER WITH UNIT.
- 5. UNIT IS COOLING ONLY.

SPLIT SYSTEM OUTDOOR UNIT SCHEDULE							
REFERENCE	SSO-1						
MANUFACTURER	MITSUBISHI						
MODEL#	PUY-A24NHA7						
SERVES	SSI-1						
WEIGHT (LBS)	151						
DIMENSIONS W/ CURB & ACCESSORIES - L x W x H (INCHES)	37x37x13						
NOMINAL CAPACITY (TONS)	2.00						
COOLING CAPACITY - RATED (BTU/H)	24,000						
REFRIGERANT TYPE	R454B						
COMPRESSOR QUANTITY	1						
EFFICIENCY							
SEER	17.5						
ELECTRICAL DATA							
VOLTAGE - PH	208 - 1						
MCA	19						
MOCP	26						
NOTES	1,2,3,4						

- 1. DISCONNECT SHALL BE PROVIDED / INSTALLED BY E.C.
- 2. UNIT TO BE MOUNTED ON EXTERIOR SIDEWALL. REFER TO INSTALLATION DETAIL ON PLANS. 3. REFER TO SPLIT SYSTEM INDOOR UNIT SCHEDULE FOR CAPACITY RATING CONDITIONS.
- 4. SYSTEM REQUIRES LOW AMBIENT AIR COOLING OPERATION (-20 °F), PROVIDE LOW AMBIENT WIND BAFFLES.

#### **ELECTRICAL ABBREVIATIONS**

Α	DEVICE MOUNTED +8" ABOVE	NIC	NOT IN CONTRACT
Α.	COLINTED TOD (VEDIEV LOCATION)	NM	NONMETALLIC
A ==	COUNTER TOP (VERIFY LOCATION) ABOVE FINISHED FLOOR AUTOMATIC TRANSFER SWITCH	NIVI	
AFF	ABOVE FINISHED FLOOR	NTS	NOT TO SCALE
ATS			ON CENTER
С	CEILING	OFCI	OWNER FURNISHED
CB	CIRCUIT BREAKER		CONTRACTOR INSTALLED
CT	CURRENT TRANSFORMER	OFOI	OWNER FURNISHED,
E	EXISTING ITEM TO REMAIN		OWNER INSTALLED
EC	ELECTRICAL CONTRACTOR	R	EXISTING ITEM TO BE REMOVED
EM	EXISTING ITEM TO REMAIN ELECTRICAL CONTRACTOR EMERGENCY LIGHT FIXTURE	RR	EXISTING ITEM TO BE REMOVED AND
ER	NEW LOCATION OF EXISTING ITEM		RELOCATED
F			EXISTING ITEM TO BE REMOVED AND
FAAP	FIRE ALARM ANNUNCIATOR PANEL		REPLACED WITH NEW
FACP	FIRE ALARM CONTROL PANEL	SCCR	SHORT CIRCUIT CURRENT RATING
FSD		T	TAMPER PROOF DEVICE
G	GROUND FAULT CIRCUIT INTERRUPTER	TCC	TEMPERATURE CONTROL CONTRACTOR
GND	GROUND	TV	TELEVISION
KVA	KILO-VOLT-AMPERES	TYP UPS	TYPICAL
KW	KILOWATTS	UPS	UNINTERRUPTIBLE POWER SUPPLY
MC	MECHANICAL CONTRACTOR	V	VOLTS
MCB	MAIN CIRCUIT BREAKER	VA	VOLT-AMPERES
MDP	MAIN DISTRIBUTION PANEL	WG	WIREGUARD COVER
MLO	MAIN LUGS ONLY	WP	WEATHERPROOF DEVICE
N	NEW DEVICE IN EXISTING LOCATION		WEATHER RESISTANT DEVICE
• •		+24"	INDICATES MOUNTING HEIGHT CENTER
			LINE OF DEVICE TO FINISHED FLOOR
			22 3. 22.102 101 11101125 120010

1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 21 | 22 | 23 | 24 | 25

#### **GENERAL NOTES - ELECTRICAL**

- COORDINATE LOCATION/INSTALLATION OF MECHANICAL AND ELECTRICAL WORK WITH ALL OTHER TRADES, BEGIN INSTALLATION AND ROUGH-IN ONLY AFTER PROPER AND TIMELY COORDINATION WITH ALL TRADES ASSOCIATED WITH THE INSTALLATION IS COMPLETE. COORDINATE WITH BUILDING STRUCTURE, ARCHITECTURE, MECHANICAL SHEET METAL, ALL PIPING SYSTEMS, LIGHT FIXTURES, CONDUITS, CABLE TRAYS, FOUIPMENT ACCESS/CLEARANCE, ETC. REFER TO ALL GENERAL, MECHANICAL, AND ELECTRICAL DRAWINGS AND SPECIFICATIONS FOR THIS PROJECT. CONTRACTOR IS RESPONSIBLE FOR REWORK OF INSTALLED EQUIPMENT RESULTING FROM INSUFFICIENT COORDINATION.
- ELECTRICAL DRAWINGS ARE ONLY A PORTION OF THE COMPLETE SET OF PLANS AND CONTRACT DOCUMENTS. THE ELECTRICAL SCOPE OF WORK IS DEFINED BY THE COMPLETE SET OF CONTRACT DOCUMENTS. THIS INCLUDES BUT IS NOT LIMITED TO REFERENCING; ARCHITECTURAL PLANS FOR DIMENSIONS AND DETAILS: EQUIPMENT PLANS FOR ROUGH-IN REQUIREMENTS, MECHANICAL PLANS FOR EQUIPMENT SIZES AND LOCATIONS.

#### **INSTALLATION NOTES - ELECTRICAL**

- INCREASE CONDUCTOR SIZES ON 20A 120V-1 PHASE CIRCUITS EXCEEDING 100 FEET TO CENTER OF LOAD TO ACCOUNT FOR VOLTAGE DROP.
- RACEWAYS AND BOXES ARE SHOWN DIAGRAMMATICALLY ONLY AND INDICATE GENERAL AND APPROXIMATE LOCATIONS. LAYOUTS DO NOT ALWAYS SHOW THE TOTAL NUMBER OF RACEWAYS OR BOXES FOR THE CIRCUITS REQUIRED, NOR ARE THE LOCATIONS OF INDICATED RUNS INTENDED TO SHOW THE ACTUAL ROUTING OF THE RACEWAYS.
- LIGHT FIXTURES, SWITCHES, DEVICES, ETC. ARE SHOWN IN PREFERRED LOCATION. MODIFY CONDUIT, HANGERS, CIRCUITING, ETC. TO PROVIDE A COMPLETE AND OPERATIONAL SYSTEM.
- PROVIDE A DEDICATED GREEN INSULATED GROUND CONDUCTOR TO ALL DEVICES. DO NOT USE CONDUIT SYSTEM AS THE ONLY EQUIPMENT GROUNDING METHOD.
- PROVIDE TYPED PANEL DIRECTORY AT PROJECT COMPLETION FOR NEW PANELS AND EXISTING PANELS WITH CIRCUITS MODIFIED DURING PROJECT. USE OWNER'S CURRENT ROOM NUMBERS AND EQUIPMENT NAMES. PROVIDE UNIQUE CIRCUIT IDENTIFICATION PER NEC 408.4(A)
- CONTRACTOR IS RESPONSIBLE FOR OPENINGS IN WALLS, FLOORS, CEILINGS, AND ROOFS THAT ARE REQUIRED TO COMPLETE THEIR SCOPE OF WORK. SEAL PENETRATIONS IN ACCORDANCE WITH THE RATING OF THE AFFECTED ASSEMBLY REFER TO ARCHITECTURAL CODE PLAN FOR RATED WALLS, FLOORS, AND CEILINGS.

#### **CODE NOTES - ELECTRICAL**

- PROVIDE ELECTRICAL INSTALLATION IN ACCORDANCE WITH STATE CODES.
- THE CURRENT ADOPTED EDITION OF THE ELECTRICAL CODE IS THE STANDARD FOR THE ELECTRICAL INSTALLATION. VERIFY WITH STATE OFFICIALS WHEN PERMITS ARE OBTAINED. NOTIFY DESIGN TEAM OF ANY DISCREPANCIES BETWEEN THE PROJECT MANUAL OR DRAWINGS AND THE GOVERNING CODE.
- INSTALLATION SHALL FOLLOW REQUIREMENTS OF THE ADAAG -AMERICANS WITH DISABILITIES ACT.
- REFER TO PROJECT MANUAL AND PROJECT CODE REVIEW SHEET FOR LIST OF APPLICABLE
- PER NEC EVERY CIRCUIT AND CIRCUIT MODIFICATION SHALL BE LEGIBLY IDENTIFIED AS TO ITS CLEAR, EVIDENT AND SPECIFIC PURPOSE OR USE. CONTRACTOR TO PROVIDE FINAL CIRCUIT IDENTIFICATION FOR ALL NEW AND MODIFIED CIRCUITS AT PROJECT COMPLETION.

#### DEVICE INSTALLATION AND MATERIALS - ELECTRICAL

- PROVIDE NORMAL WIRING DEVICES AS <u>GRAY</u> UNLESS OTHERWISE NOTED.
- PROVIDE EMERGENCY WIRING DEVICES AS <u>ORANGE</u> UNLESS OTHERWISE NOTED.
- PROVIDE DEVICES COVER PLATES AS  $\underline{\text{STAINLESS STEEL}}.$  MATCH WIRING DEVICES COLOR.
- PROVIDE GFCI TYPE RECEPTACLES AT ALL LOCATIONS REQUIRED BY THE NEC. INSTALL ABOVE COUNTERTOP RECEPTACLES +8" ABOVE COUNTERTOP OR AS OTHERWISE
- AT A COMMON COUNTERTOP, INSTALL ALL RECEPTACLES AND SWITCHES AT THE SAME HEIGHT UNLESS OTHERWISE SPECIFICALLY INDICATED.

### FIRE DETECTION & ALARM NOTES

- INSTALL HEAT DETECTORS IN WORK AREAS DURING CONSTRUCTION TO MINIMIZE FALSE TRIPS. INSTALL PERMANENT DETECTORS IN LOCATIONS SHOWN UPON CONSTRUCTION COMPLETION.
- INSTALL MODULES AT ELEVATOR EQUIPMENT TO PROVIDE PRIMARY RECALL, SECONDARY RECALL, FIRE HAT AND SHUNT TRIP. PROVIDE PROGRAMMING AS NECESSARY FOR FUNCTION SYSTEM.
- FIRE ALARM ITEMS AND DEVICES ARE SHOWN IN SUGGESTED LOCATIONS. FINAL LAYOUTS, LOCATIONS, AND QUANTITIES SHALL BE IN ACCORDANCE WITH APPLICABLE CODES, MANUFACTURER'S RECOMMENDATIONS, AND EQUIPMENT LISTINGS. COORDINATE LOCATIONS WITH LIGHTING AND AIR HANDLING SYSTEMS.
- ALL FIRE ALARM CIRCUITRY IN EXPOSED CEILING SPACES SHALL BE IN 3/4" CONDUIT PER SPECIFICATIONS. EXPOSED CABLING SHALL NOT BE ACCEPTED.
- ALL CONCEALED, ACCESSIBLE CEILING TILE LOCATIONS SHALL BE ALLOWED TO HAVE OPEN AIR CABLING INSTALLED. PROVIDE J-HOOKS, BRIDLE RINGS AND ASSOCIATED CABLE SUPPORTS TO KEEP INFRASTRUCTURE MANAGED AND OFF OF THE CEILING TILE.
- 6. ELECTRICAL CONTRACTOR SHALL PROVIDE FIRESTOPPING AT ALL PENETRATIONS PER

### **COMMUNICATION NOTES**

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18

- REUSE EXISTING POTS LINE IN THE ELEVATOR EQUIPMENT ROOM FOR THE ELEVATOR TELEPHONE. REVISE LOCATION AND EXTEND AS NECESSARY FOR NEW EQUIPMENT
- INSTALL NEW DATA CABLING FROM IDF LOCATIONS SHOWN ON PLANS TO EACH ELEVATOR EQUIPMENT ROOM FOR NEW 2-WAY COMMUNICATION SYSTEM.

## LIGHTING SYMBOLS RECESSED LIGHT FIXTURE, LETTER INDICATES SWITCH LEG (TYPICAL), SHADING INDICATES EMERGENCY LIGHT (TYPICAL) ROUND APERTURE RECESSED DOWNLIGHT FIXTURE, ARROW INDICATES WALLWASH SURFACE MOUNTED STRIP FIXTURE LINEAR PENDANT MOUNTED FIXTURE **INDUSTRIAL STRIP LIGHT FIXTURE** WALL MOUNTED STRIP LIGHT FIXTURE. EMERGENCY LIGHT FIXTURE, WALL MOUNT, +96" OR AS NOTED EMERGENCY LIGHT FIXTURE, CEILING MOUNT EXIT SIGN, WALL MOUNT +96", SHADED AREAS INDICATE NUMBER OF FACES, ARROWS INDICATE SIGN ARROWS EXIT SIGN, CEILING MOUNT, SHADED AREAS INDICATE NUMBER OF FACES, ARROWS INDICATE SIGN ARROWS SINGLE POLE SWITCH, WALL MOUNT, LETTER INDICATES SWITCH LEG

## THREE WAY SWITCH, WALL MOUNT, LETTER INDICATES SWITCH LEG PILOT LIGHT SWITCH, WALL MOUNT, LETTER INDICATES SWITCH LEG DIMMER SWITCH, WALL MOUNT, LETTER INDICATES SWITCH LEG LIGHTING CONTROLS LOW VOLTAGE SWITCH, WALL MOUNT, LETTER INDICATES SWITCH LEG, REFER TO LIGHTING CONTROLS SCHEDULE

**EMERGENCY TRANSFER DEVICE** 

	PROVISION RESPONSIBILITIES DEFINED	OFOI	OFCI	CF
COMMUNICATION	S - TELECOM SYSTEMS:			
ROUGH-IN, P	ATHWAYS AND SLEEVES			
RACKS, FRAM	MES AND ENCLOSURES	REU:	SE EXISTI	NG
COPPER HOR	RIZONTAL CABLING			
DATA COMM	UNICATIONS SWITCHES AND HUBS	REU	SE EXISTI	NG
SECURITY - ACCE	SS CONTROL:			
ROUGH-IN, P	ATHWAYS AND SLEEVES			
SECURITY MA	ANAGEMENT SYSTEM - HEAD END COMPONENTS			•
SECURITY MA	ANAGEMENT SYSTEM - FIELD DEVICES			•
SECURITY MA			•	
SECURITY MA	ANAGEMENT SYSTEM - ALL CABLING			
SECURITY - VIDEO	SURVEILLANCE:			
ROUGH-IN, P	ATHWAYS AND SLEEVES	N/A	N/A	N/A
CAMERA(S)		N/A	N/A	N/A
HEAD END E	QUIPMENT AND COMPONENTS	N/A	N/A	N/A
SAFETY - FIRE DE	TECTION AND ALARM:			
ROUGH-IN, P	ATHWAYS AND SLEEVES			
INITIATING FI	ELD DEVICES (SMOKE, MANUAL PULL, MONITOR MODULES)			
NOTIFICATIO	N APPLIANCES (HORNS, STROBES, SPEAKERS)			

CFCI CONTRACTOR FORMISHED & CONTRACTOR INSTALLED

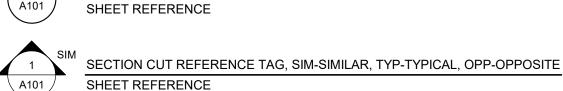
MATRIX IS NOT INTENDED TO BE EXHAUSTIVE TO COVER ALL MATERIALS NECESSARY FOR SCOPE AND SHOULD ONLY BE USED TO QUICKLY IDENTIFY SYSTEMS AND RELATED INFRASTRUCTURE INSIDE AND OUTSIDE THE BID OF THIS PROJECT. ANY ITEMS FURNISHED OR INSTALLED BY THE BIDDING CONTRACTOR SHALL COVER ALL REQUIRED APPERTUNANCES NECESSARY FOR A COMPLETE SYSTEM. THIS SHALL INCLUDE BUT NOT BE LIMITED TO, EQUIPMENT, ACCESSORIES, TERMINATIONS, TERMINATION COMPONENTS, ALL FINAL CORDAGE CONNECTIVITY, SOFTWARE, PROGRAMMING, AND THE LABOR TO INSTALL.

#### **GENERAL SYMBOLS**

- E CONDUIT SLEEVE
- CONDUIT UP, REFER TO TAG ON DRAWING FOR SIZE
- CONDUIT DOWN, REFER TO TAG ON DRAWING FOR SIZE
- JUNCTION BOX, CEILING OR FLOOR MOUNTED.
- JUNCTION BOX, WALL MOUNTED, ELEVATION AS NOTED.
- KEYNOTE

EQUIPMENT IDENTIFICATION TAG. REFER TO EQUIPMENT CONNECTION SCHEDULE

DETAIL DRAWING REFERENCE TAG. SIM-SIMILAR, TYP-TYPICAL, OPP-OPPOSITE



INTERIOR ELEVATION DRAWING REFERENCE TAG

DRAWINGS REVISION. REFER TO TITLEBLOCK FOR REVISION NAME AND DATE

#### POWER SYMBOLS

- SINGLE RECEPTACLE, WALL MOUNTED
- DUPLEX RECEPTACLE, WALL MOUNTED, TAMPER-RESISTANT
- DUPLEX GFCI RECEPTACLE, TAMPER-RESISTANT, WALL MOUNT. PROTECTION INCLUDED IN DEVICE.
- DUPLEX GFCI WEATHER RESISTANT RECEPTACLE WITH WEATHER-PROOF IN-USE COVER, TAMPER-RESISTANT, WALL MOUNT
- EQUIPMENT CONNECTION, REFER TO EQUIPMENT CONNECTION SCHEDULE FOR CONNECTION TYPE. REFER TO PANEL SCHEDULES FOR GFCI PROTECTION WHERE REQUIRED
- MOTOR CONNECTION, REFER TO EQUIPMENT CONNECTION SCHEDULE FOR CONNECTION TYPE.
- REFER TO PANEL SCHEDULES FOR GFCI PROTECTION WHERE REQUIRED EQUIPMENT CONNECTION, WALL MOUNT
- REFER TO EQUIPMENT CONNECTION SCHEDULE FOR CONNECTION TYPE. REFER TO PANEL SCHEDULES FOR GFCI PROTECTION WHERE REQUIRED
- SAFETY DISCONNECT SWITCH
- SURGE PROTECTIVE DEVICE
- PANELBOARD SURFACE MOUNTED
- PANELBOARD RECESSED IN WALL
- DISTRIBUTION PANELBOARD/SWITCHBOARD SURFACE MOUNTED AS NOTED.
- - THERMOSTAT JUNCTION BOX ROUGH-IN. WALL MOUNTED +48" OR AS NOTED.

EXTEND 3/4" CONDUIT TO ACCESSIBLE LOCATION ABOVE CEILING.

TEMPERATURE CONTROLS SYMBOLS - DEVICES PROVIDED BY T.C.C

- HUMIDISTAT JUNCTION BOX ROUGH-IN. WALL MOUNTED +48" OR AS NOTED.
- EXTEND 3/4" CONDUIT TO ACCESSIBLE LOCATION ABOVE CEILING.
- NOTED. EXTEND 3/4" CONDUIT TO ACCESSIBLE LOCATION ABOVE CEILING.

CARBON DIOXIDE SENSOR JUNCTION BOX ROUGH-IN. WALL MOUNTED +48" OR AS

TEMPERATURE SENSOR JUNCTION BOX ROUGH-IN. WALL MOUNTED +48" OR AS NOTED. EXTEND 3/4" CONDUIT TO ACCESSIBLE LOCATION ABOVE CEILING.

#### **EQUIPMENT CONNECTION SCHEDULE**

- NEMA 1 ENCLOSURE 3R NEMA 3R ENCLOSURE
  - ST SHUNT TRIP
- CB CIRCUIT BREAKER IN PANEL FAR FIRE ALARM SHUTDOWN RELAY FDS FUSED DISCONNECT SWITCH, HEAVY
- TS TOGGLE SWITCH

- INT INTEGRAL WITH EQUIPMENT FROM FACTORY 1. PROVIDE AND INSTALL ELECTRICAL SYSTEMS MEETING THE REQUIREMENTS OF THE PROVIDED MECHANICAL SYSTEMS. NFD NON-FUSED DISCONNECT SWITCH, HEAVY DUTY | 2. REVIEW EQUIPMENT SHOP DRAWINGS FOR COMPLIANCE AND COORDINATION WITH ELECTRICAL CONNECTIONS. NOTIFY ENGINEER IF CHANGES TO ELECTRICAL CONNECTIONS, WIRING, AND BREAKER REQUIREMENTS ARE NECESSARY. 3. PROVIDE HEAVY DUTY DISCONNECTS FOR THE INSTALLED ENVIRONMENT; NEMA 1 INDOORS, MINIMUM NEMA 3R

  - 4. INCLUDE AUXILLIARY CONTACTS AND LOW-VOLTAGE WIRING TO AUXILLIARY EQUIPMENT THAT RUNS IN TANDEM WITH EQUIPMENT, (I.E. 120V DAMPERS WITH 480V MOTORS).

								, , , , , , , , , , , , , , , , , ,		
	ELECTRICAL CHARACTERISTICS				DISCONNECT					
<u>TAG</u>	VOLTAGE	PHASE	MOTOR HP	KW	MCA	TYPE	SIZE (AMPS)	<u>NEMA</u> RATING	FUSE SIZE (AMPS)	REMARKS
SSI-1	208 V	1	-	-	1	NFD	30	1	-	-
SSO-1	208 V	1	-	-	19	NFD	30	3R	-	-

#### LIGHTING FIXTURE SCHEDULE

- 1. ALL FIXTURES SHALL BE U.L. OR SIMILARLY LISTED.
- 2. INCLUDE A MINIMUM 1 YEAR WARRANTY FOR LIGHTING FIXTURES, WHERE NOT OTHERWISE SPECIFIED.
- 3. REFER TO ARCHITECTURAL DOCUMENTS FOR EXACT MOUNTING LOCATIONS, DETAILS, AND CONFIGURATIONS OF ALL LUMINAIRES. IF ARCHITECTURAL DRAWINGS DO NOT CLARIFY EXACT MOUNTING LOCATION OR DETAIL, ISSUE AN RFI FOR ARCHITECT TO SPECIFICALLY CLARIFY PRIOR TO FIXTURE ROUGH-IN.
- 4. VERIFY COMPATIBILITY OF LIGHT FIXTURES WITH ARCHITECTUREAL CEILING PLAN, MATERIALS, ADJACENT CONSTRUCTION, AND ADJACENT FINISHES PRIOR TO SHOP DRAWINGS SUBMITTAL. ADJUST FIXTURE TYPE, CONSTRUCTION, FLANGE,...
- 5. CONTRACTOR IS RESPONSIBLE FOR ALL MISCELLANEOUS HARDWARE NECESSARY TO INSTALL AND SUPPORT THE LUMINAIRES.
- 6. AIM AND TARGET ADJUSTABLE INTERIOR AND EXTERIOR LIGHT FIXTURES UNDER THE OBSERVATION AND IN COMPLIANCE WITH RECOMMENDATIONS OF THE ARCHITECT. INCLUDE LABOR AND MATERIAL COSTS MADE NECESSARY BY THIS REQUIREMENT.

7. CONTRACTOR IS RESPONSIBLE FOR OBTAINING AND FILLING OUT ALL UTILITY REBATE FORMS FOR OWNER.

					DESIGNED BY: ERIC HEYNEN					
TYPE	MANUFACTURER	MODEL	DESCRIPTION	FINISH	LUMENS	DRIVER TYPE	SOURCE-CC T	VOLTAGE	LOAD-VA	APPROVED EQUALS
EM	HUBBELL DUAL-LITE	LZ-2-I-03L	EMERGENCY LIGHT, WALL OR CEILING MOUNTED, THERMOPLASTIC HOUSING, 2 LED ADJUSTABLE LAMP HEADS, LEAD-CALCIUM MAINTENANCE FREE BATTERY, SELF-DIAGNOSTICS. MULTI-VOLT REQUIRED	WHITE	300	LED	LED - 4000K	120 V	2 VA	SURE-LITES, LIGHTALARMS, LITHONIA
F1	LITHONIA	CSVT L48 5000LM MVOLT 40K 80CRI	UTILITY STRIP FIXTURE 4', WET LISTED, GASKETED, POLYCARB LENS, MULTI-VOLT REQUIRED	WHITE	5000	LED	LED - 4000K	120 V	35 VA	COOPER, CURRENT
F2	LITHONIA	CSVT L48 5000LM MVOLT 40K 80CRI	SAME AS F1 BUT WALL MOUNTED	WHITE	5000	LED	LED - 4000K	120 V	35 VA	COOPER, CURRENT
F3	ALPHABET	NU4E4-RD-SW-15LM-3 5K-90-60D-CL-WH-WH-	4" RECESSED DOWNLIGHT, MULTI-VOLT, RETROFIT IN EXISTING DRYWALL CEILING, EXTEND CIRCUIT/SWITCHLEG FROM EXISTING LIGHTING IN	WHITE	1500	LED	LED - 3500K	120 V	16 VA	GOTHAM, PORTFOLIO

100 Court Ave., Suite 100

Des Moines, IA 50309 P: 515-309-0722

www.opnarchitects.com All reports, plans, specifications, computer files, field data, notes and other documents and instruments prepared by OPN Architects, Inc. as instruments of service shall remain the property of OPN Architects, Inc., OPN Architects, Inc. shall retain all common law, statutory and other reserved rights, including the copyright thereto.

© 2024 OPN Architects, Inc

1305 E. Walnut Street DES MOINES, IA 50319

Construction Manager DCI Group 220 SE 6TH Street - SUITE 200 DES MOINES, IA 50309 P. 515-244-5043

Elevator Consultant LERCH BATES 7625 GOLDEN TRIANGLE DRIVE, SUITE T EDEN PRAIRIE, MN 55344

Mechanical Engineer KCL ENGINEERING 300 4TH ST WEST DES MOINES, IA 50265

P. 612-441-4335

P. 515-724-7938

Electrical Engineer KCL ENGINEERING 300 4TH ST WEST DES MOINES, IA 50265 P. 515-724-7938

OPN Project No. 24850000

Sheet Issue Date 03/14/2025

Sheet Name **ELECTRICAL/MECHANICAL GENERAL NOTES & SYMBOLS JESSIE PARKER ME000.6** 

West Des Moines, IA 50265 515-724-7938

6 ELEVATOR SYSTEM DETAIL NOT TO SCALE

| 13

West Des Moines, IA 50265

515-724-7938

5 ELEVATOR SYSTEM DETAIL NOT TO SCALE

**POWER GENERAL NOTES** COORDINATE LOCATION/INSTALLATION OF MECHANICAL AND ELECTRICAL WORK WITH ALL OTHER TRADES. NO ASPECT OF A

SYSTEM INSTALLATION OR ITS ROUGH-IN SHALL COMMENCE UNTIL

COORDINATED SHALL INCLUDE BUT NOT BE LIMITED TO: BUILDING

STRUCTURE, SHEET METAL, PIPING SYSTEMS, LIGHT FIXTURES,

WITH THE INSTALLATION HAS TRANSPIRED. ITEMS TO BE

CONDUITS, CABLE TRAYS, ETC. REFER TO ALL GENERAL,

DRAWINGS.

STOPPING TO MAINTAIN RATING.

SPECIFICATIONS FOR THIS PROJECT

FIXTURES UNDER NORMAL OPERATION.

PROPER AND TIMELY COORDINATION WITH ALL TRADES ASSOCIATED

MECHANICAL, AND ELECTRICAL DRAWINGS AND SPECIFICATIONS FOR

COORDINATE ELECTRICAL REQUIREMENTS FOR MECHANICAL UNITS

WITH MECHANICAL CONTRACTOR AND FINAL MECHANICAL SHOP

PROVIDE PENETRATIONS REQUIRED FOR ROUTING RACEWAYS

ELECTRICAL WORK WITH ALL OTHER TRADES. NO ASPECT OF A

ASSOCIATED WITH THE INSTALLATION HAS TRANSPIRED. ITEMS

LIGHT FIXTURES, CONDUITS, CABLE TRAYS, ETC. REFER TO ALL

TO BE COORDINATED SHALL INCLUDE BUT NOT BE LIMITED TO:

BUILDING STRUCTURE, SHEET METAL, ALL PIPING SYSTEMS,

GENERAL, MECHANICAL, AND ELECTRICAL DRAWINGS AND

UNLESS NOTED OTHERWISE, CONNECT ALL EMERGENCY BATTERY FIXTURES WITH AN UN-SWITCHED LEG OF THE

LIGHTING CIRCUIT THAT SERVES THE FIXTURES SPACE.

APPROXIMATE CONDUIT PATHWAY ABOVE ACCESSIBLE CEILING FROM PANELS PA AND LA TO THE EQUIPMENT ROOM. COORDINATE REMOVAL

INSTALL NEW 20A 2P BREAKER IN

EXISTING PANEL IS SQUARE D ILINE HCM PANEL. —

UTILIZE EXISTING SPARE BREAKERS

IN SPACES 37, 39, AND 41 FOR 20A

CIRCUITS REQUIRED FOR THE

ELEVATOR ROOM. —

PANEL PA FOR NEW SPLIT SYSTEM.

PANEL PA

PANEL LA

OF TILES AND EXACT PATHWAY WITH

CONSTRUCTION MANAGER

MAINTAIN NORMAL SWITCHING SCHEME OF EMERGENCY

SYSTEM INSTALLATION OR ITS ROUGH-IN SHALL COMMENCE UNTIL PROPER AND TIMELY COORDINATION WITH ALL TRADES

THROUGH THE BUILDING. COORDINATE FIRE RATED WALL

PENETRATIONS AND PROVIDE CONDUIT SLEEVES AND FIRE

100 Court Ave., Suite 100 Des Moines, IA 50309 P: 515-309-0722

www.opnarchitects.com All reports, plans, specifications, computer files, field data, notes and other documents and instruments prepared by OPN Architects, Inc. as instruments of service shall remain

the property of OPN Architects, Inc. OPN Architects, Inc. shall retain all common law, statutory and other reserved rights, including the copyright thereto.

© 2024 OPN Architects, Inc.

**Jessie Parker Elevator Modernization** 1305 E. Walnut Street DES MOINES, IA 50319

Construction Manager DCI Group 220 SE 6TH Street - SUITE 200 DES MOINES, IA 50309 P. 515-244-5043

Elevator Consultant LERCH BATES 7625 GOLDEN TRIANGLE DRIVE, SUITE T EDEN PRAIRIE, MN 55344 P. 612-441-4335

Mechanical Engineer KCL ENGINEERING 300 4TH ST WEST DES MOINES, IA 50265 P. 515-724-7938

Electrical Engineer KCL ENGINEERING 300 4TH ST WEST DES MOINES, IA 50265 P. 515-724-7938

OPN Project No. 24850000

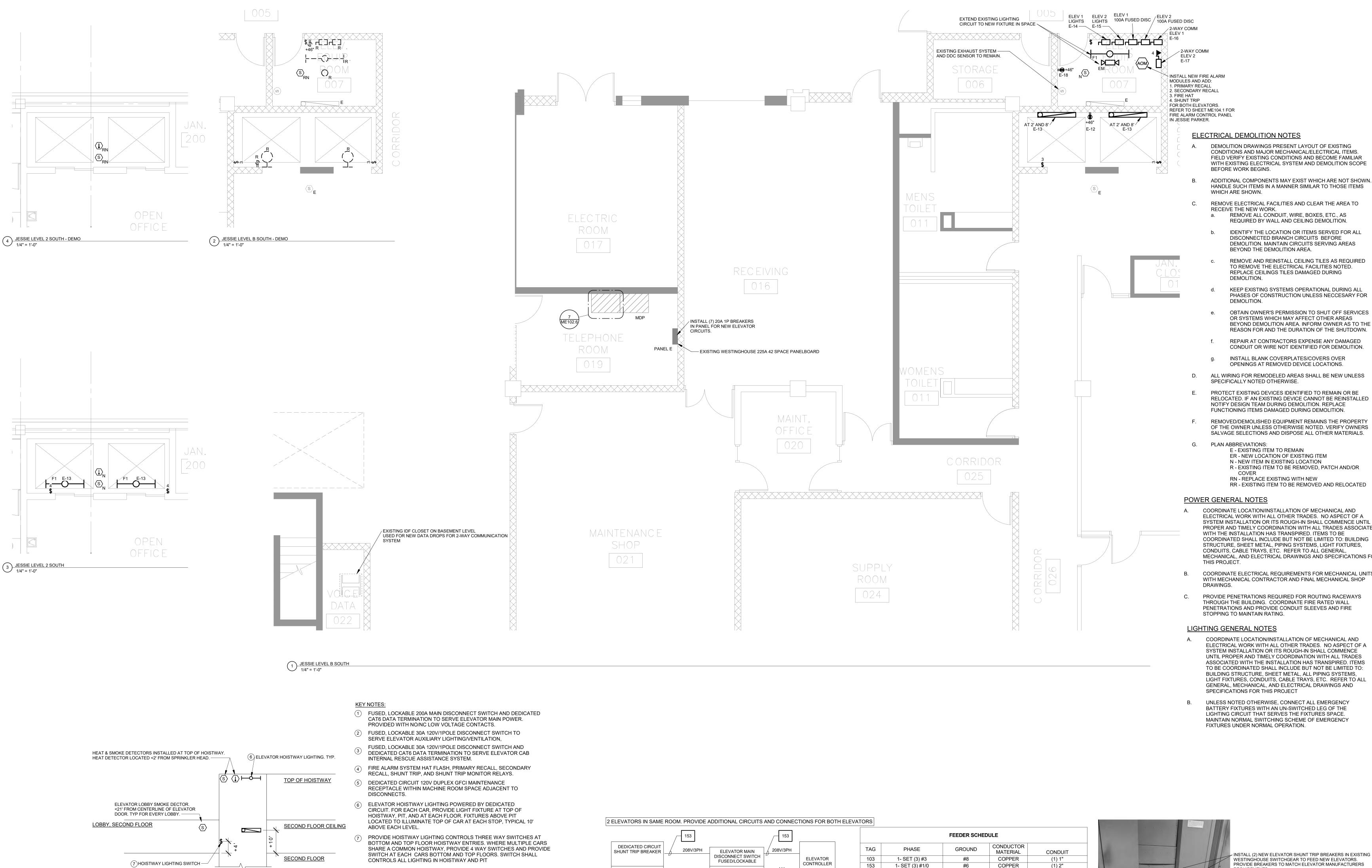
Sheet Issue Date

Sheet Number

03/14/2025

Sheet Name **ELECTRICAL/MECHANICAI JESSIE PARKER NORTH** 

**ME101.6** 



1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 21 | 22 | 23 | 24 | 25

100 Court Ave., Suite 100 Des Moines, IA 50309 P: 515-309-0722 www.opnarchitects.com All reports, plans, specifications, computer files, field data, notes and other documents and instruments prepared by OPN Architects, Inc. as instruments of service shall remain the property of OPN Architects, Inc. OPN Architects, Inc. shall retain all common law, statutory and other reserved rights, including the copyright thereto. © 2024 OPN Architects, Inc. Jessie Parker Elevator Modernization DEMOLITION DRAWINGS PRESENT LAYOUT OF EXISTING CONDITIONS AND MAJOR MECHANICAL/ELECTRICAL ITEMS. 1305 E. Walnut Street FIELD VERIFY EXISTING CONDITIONS AND BECOME FAMILIAR DES MOINES, IA 50319 WITH EXISTING ELECTRICAL SYSTEM AND DEMOLITION SCOPE ADDITIONAL COMPONENTS MAY EXIST WHICH ARE NOT SHOWN. Construction Manager HANDLE SUCH ITEMS IN A MANNER SIMILAR TO THOSE ITEMS DCI Group 220 SE 6TH Street - SUITE 200 REMOVE ELECTRICAL FACILITIES AND CLEAR THE AREA TO DES MOINES, IA 50309 REMOVE ALL CONDUIT, WIRE, BOXES, ETC., AS P. 515-244-5043 REQUIRED BY WALL AND CEILING DEMOLITION. Elevator Consultant IDENTIFY THE LOCATION OR ITEMS SERVED FOR ALL LERCH BATES DISCONNECTED BRANCH CIRCUITS BEFORE DEMOLITION. MAINTAIN CIRCUITS SERVING AREAS 7625 GOLDEN TRIANGLE DRIVE, SUITE T BEYOND THE DEMOLITION AREA. EDEN PRAIRIE, MN 55344 P. 612-441-4335 REMOVE AND REINSTALL CEILING TILES AS REQUIRED TO REMOVE THE ELECTRICAL FACILITIES NOTED. REPLACE CEILINGS TILES DAMAGED DURING Mechanical Engineer KCL ENGINEERING 300 4TH ST KEEP EXISTING SYSTEMS OPERATIONAL DURING ALL PHASES OF CONSTRUCTION UNLESS NECCESARY FOR WEST DES MOINES, IA 50265 P. 515-724-7938 OBTAIN OWNER'S PERMISSION TO SHUT OFF SERVICES Electrical Engineer OR SYSTEMS WHICH MAY AFFECT OTHER AREAS KCL ENGINEERING BEYOND DEMOLITION AREA. INFORM OWNER AS TO THE REASON FOR AND THE DURATION OF THE SHUTDOWN. 300 4TH ST WEST DES MOINES, IA 50265 REPAIR AT CONTRACTORS EXPENSE ANY DAMAGED P. 515-724-7938 CONDUIT OR WIRE NOT IDENTIFIED FOR DEMOLITION. INSTALL BLANK COVERPLATES/COVERS OVER OPENINGS AT REMOVED DEVICE LOCATIONS. D. ALL WIRING FOR REMODELED AREAS SHALL BE NEW UNLESS PROTECT EXISTING DEVICES IDENTIFIED TO REMAIN OR BE RELOCATED. IF AN EXISTING DEVICE CANNOT BE REINSTALLED NOTIFY DESIGN TEAM DURING DEMOLITION. REPLACE FUNCTIONING ITEMS DAMAGED DURING DEMOLITION. REMOVED/DEMOLISHED EQUIPMENT REMAINS THE PROPERTY SALVAGE SELECTIONS AND DISPOSE ALL OTHER MATERIALS. E - EXISTING ITEM TO REMAIN ER - NEW LOCATION OF EXISTING ITEM N - NEW ITEM IN EXISTING LOCATION R - EXISTING ITEM TO BE REMOVED, PATCH AND/OR RN - REPLACE EXISTING WITH NEW RR - EXISTING ITEM TO BE REMOVED AND RELOCATED

PROPER AND TIMELY COORDINATION WITH ALL TRADES ASSOCIATED WITH THE INSTALLATION HAS TRANSPIRED. ITEMS TO BE COORDINATED SHALL INCLUDE BUT NOT BE LIMITED TO: BUILDING STRUCTURE, SHEET METAL, PIPING SYSTEMS, LIGHT FIXTURES, CONDUITS, CABLE TRAYS, ETC. REFER TO ALL GENERAL, MECHANICAL, AND ELECTRICAL DRAWINGS AND SPECIFICATIONS FOR

DEMOLITION.

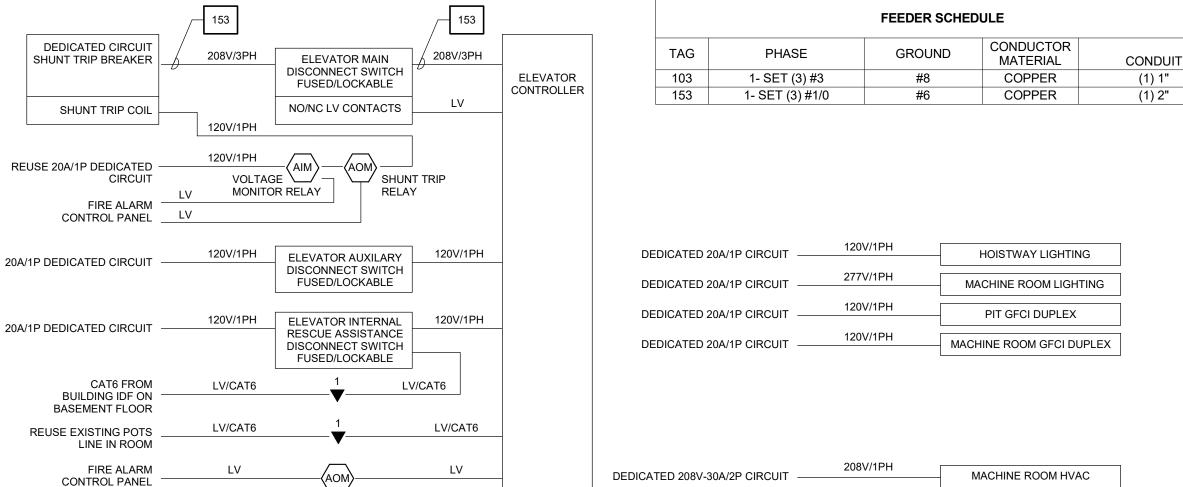
COORDINATE ELECTRICAL REQUIREMENTS FOR MECHANICAL UNITS WITH MECHANICAL CONTRACTOR AND FINAL MECHANICAL SHOP

PROVIDE PENETRATIONS REQUIRED FOR ROUTING RACEWAYS THROUGH THE BUILDING. COORDINATE FIRE RATED WALL PENETRATIONS AND PROVIDE CONDUIT SLEEVES AND FIRE STOPPING TO MAINTAIN RATING.

### LIGHTING GENERAL NOTES

COORDINATE LOCATION/INSTALLATION OF MECHANICAL AND ELECTRICAL WORK WITH ALL OTHER TRADES. NO ASPECT OF A SYSTEM INSTALLATION OR ITS ROUGH-IN SHALL COMMENCE UNTIL PROPER AND TIMELY COORDINATION WITH ALL TRADES ASSOCIATED WITH THE INSTALLATION HAS TRANSPIRED. ITEMS TO BE COORDINATED SHALL INCLUDE BUT NOT BE LIMITED TO: BUILDING STRUCTURE, SHEET METAL, ALL PIPING SYSTEMS, LIGHT FIXTURES, CONDUITS, CABLE TRAYS, ETC. REFER TO ALL GENERAL, MECHANICAL, AND ELECTRICAL DRAWINGS AND SPECIFICATIONS FOR THIS PROJECT

B. UNLESS NOTED OTHERWISE, CONNECT ALL EMERGENCY BATTERY FIXTURES WITH AN UN-SWITCHED LEG OF THE LIGHTING CIRCUIT THAT SERVES THE FIXTURES SPACE. MAINTAIN NORMAL SWITCHING SCHEME OF EMERGENCY FIXTURES UNDER NORMAL OPERATION.



INSTALL (2) NEW ELEVATOR SHUNT TRIP BREAKERS IN EXISTING WESTINGHOUSE SWITCHGEAR TO FEED NEW ELEVATORS. PROVIDE BREAKERS TO MATCH ELEVATOR MANUFACTURERS REQUIREMENTS.

— EXISTING ELEVATOR BREAKER. RELABEL AS SPARE.

OPN Project No. 24850000

Sheet Issue Date

Key Plan

03/14/2025

Sheet Name **ELECTRICAL/MECHANICAL JESSIE PARKER SOUTH** 

TYPICAL ELEVATOR SYSTEMS WIRING DIAGRAM

ROOM LIGHTING. **GROUND FLOOR CEILING** LOBBY, GROUND FLOOR DEDICATED CIRCUIT. TYP. (S) (1) \_\_\_\_\_ MACHINE ROOM — FIRE ALARM 션 SYSTEM RELAYS ELEVATOR CAB ELEVATOR (7) HOISTWAY LIGHTING SWITCH — RESCUE ASSISTANCE AUX POWER SYSTEM DISCONNECT DISCONNECT INSTALL NEW 120V DEDICATED CIRCUIT FOR NEW PIT MAINTENANCE GFCI DUPLEX ELEVATOR RECEPTACLE WITH WEATHERPROOF MAIN POWER ELEVATOR PIT EXISTING SMOKE DETECTOR TO SPRECEPTACLE — P - PROVIDE A TOTAL OF 12 F1/F2 FIXTURES FOR ENTIRETY OF SHAFT REMAIN IN PIT. — - MACHINE ROOM LIGHTING SWITCH

ELEVATOR LOBBY SMOKE DECTOR.

5 ELEVATOR SYSTEM DETAIL NOT TO SCALE

West Des Moines, IA

50265

515-724-7938

<21' FROM CENTERLINE OF ELEVATOR DOOR. TYP FOR EVERY LOBBY. -

> TYPICAL ELEVATOR HOISTWAY ELEVATION TYPICAL ELEVATOR MACHINE ROOM

8) PROVIDE A TOTAL OF 12 F1/F2 LIGHTING FIXTURES FOR SHAFTS.

— ELEVATOR MACHINE

CONTROL

HEAT AND SMOKE DETECTOR WITHIN

HEAT DETECTOR LOCATED <2' FROM

SPRINKLER HEAD (WHERE SPRINKLED).

ELEVATOR MACHINE ROOM.

6 ELEVATOR SYSTEM DETAIL NOT TO SCALE

HAT FLASH, PRIMARY SECONDARY RECALL

**ME102.6**