

Michigan State University

Veterinary Medical Center Replace Elevators 3 and 4

CAPITAL PROJECT NO. : CP25044
784 Wilson Road
East Lansing, Michigan



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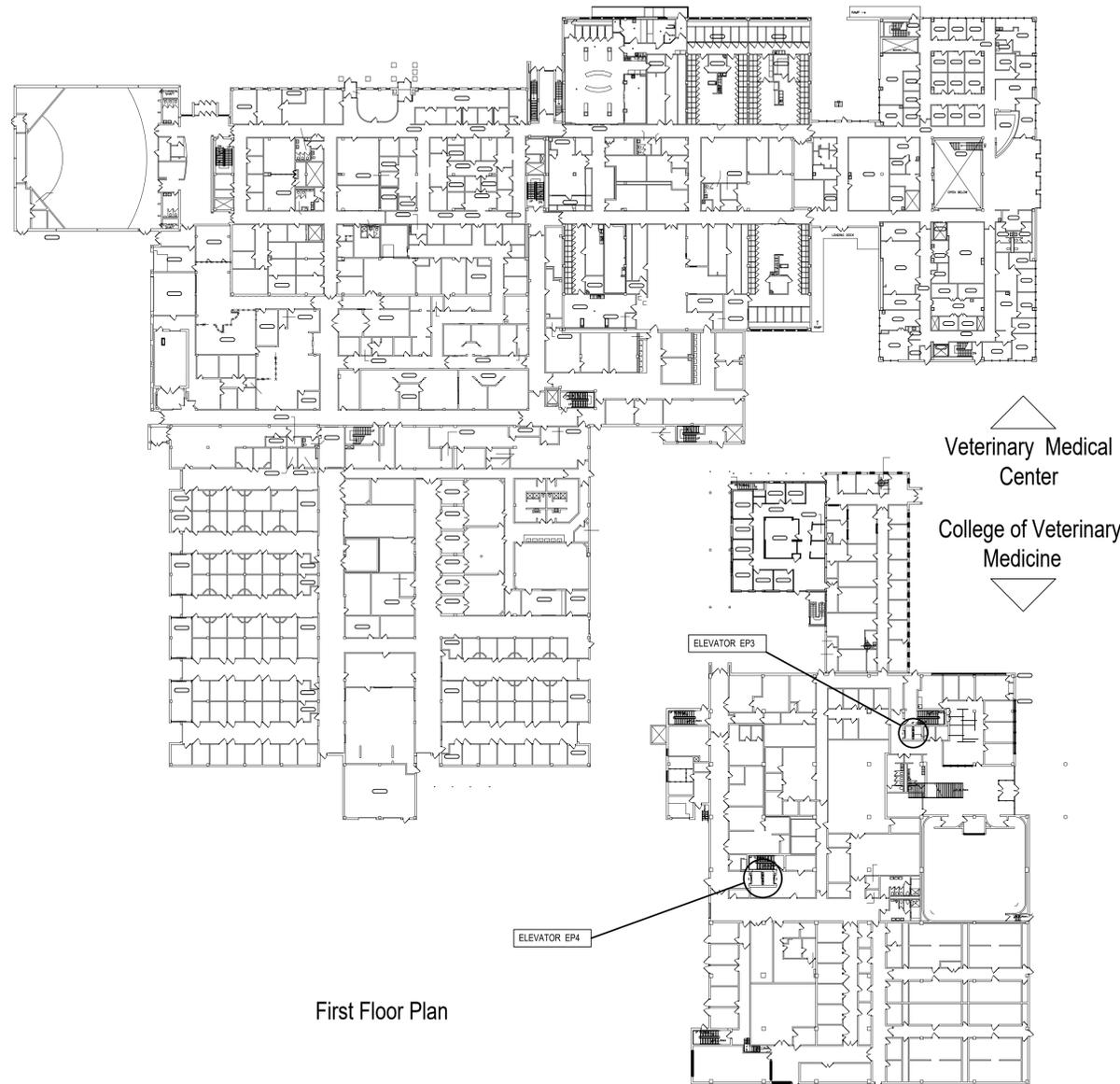
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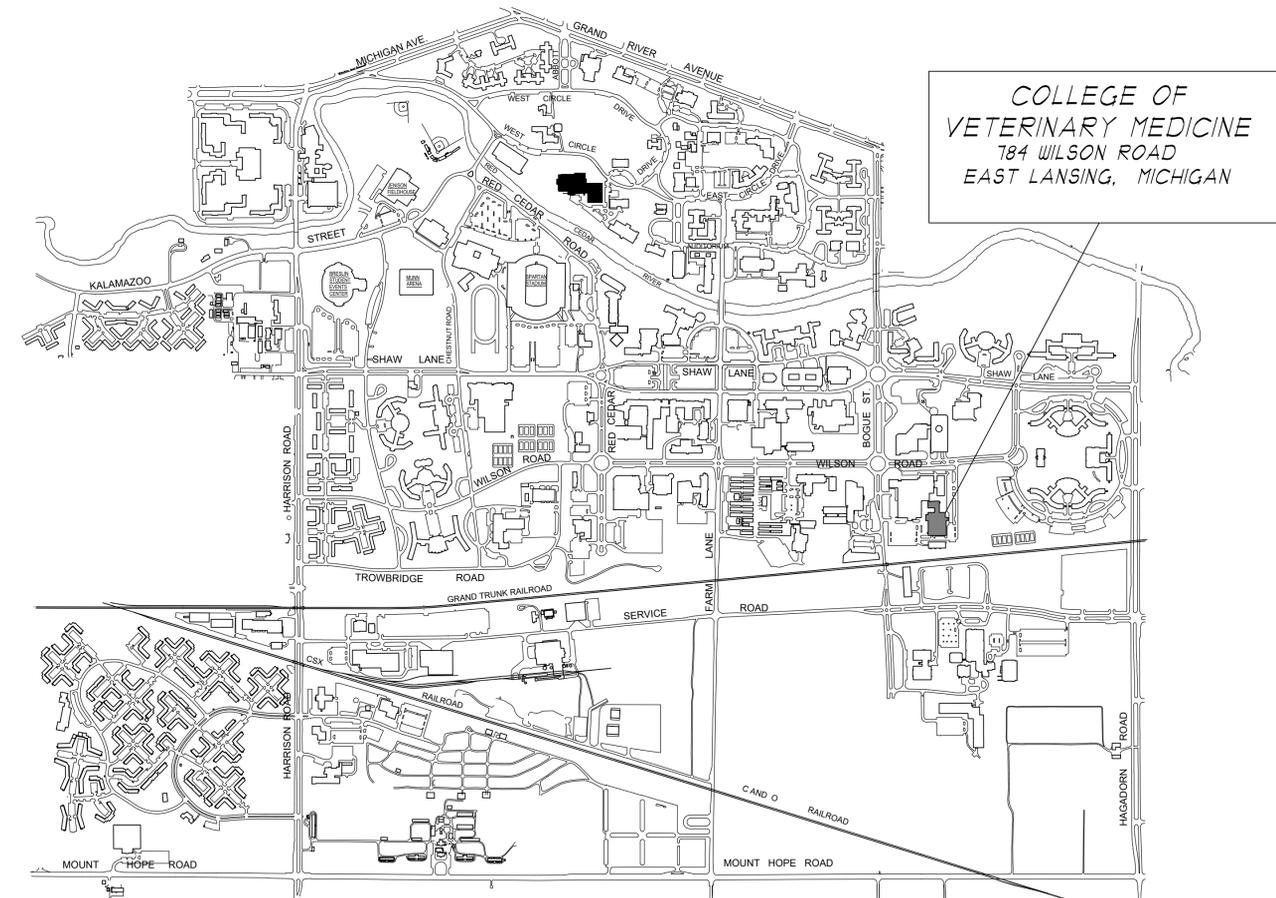
Veterinary Medical Center
REPLACE ELEVATORS 3 AND 4

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First Floor Plan

FIRST FLOOR KEY PLAN - COLLEGE OF VET MEDICINE
NTS



SITE LOCATION MAP
NTS

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DATE	Feb. 20, 2026

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REVISIONS

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A1



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A2

ELEVATOR DEMOLITION NOTES

ELEVATOR EP3 - VET MED

ELEVATOR LOBBIES AT ALL LEVELS

- 1 REMOVE EXISTING LANTERN ON WALL ABOVE HOISTWAY DOOR AND PREP FOR NEW LANTERN
- 2 REMOVE EXISTING CALL STATIONS AND PREP WALL AS REQUIRED FOR NEW CALL STATIONS
- 3 REMOVE EXISTING HOISTWAY DOOR CLOSERS. EXISTING S.S. HOISTWAY DOORS TO BE REUSED.
- 4 REMOVE EXIST FLOOR DESIGNATION SIGNAGE ON HOISTWAY DOOR JAMBS
- 5 EXISTING STAINLESS STEEL HOISTWAY DOOR FRAMES AND THRESHOLDS TO REMAIN. EXISTING STAINLESS STEEL HOISTWAY DOORS TO BE REUSED AND REINSTALLED WITH NEW DOOR OPERATING HARDWARE.

ELEVATOR CABS:

- 6 REMOVE EXISTING CAB DOOR, DOOR OPERATING HARDWARE AND TRACK
- 7 REMOVE EXISTING ELEVATOR CAB IN ITS ENTIRETY INCLUDING
 - SLING
 - SHELL
 - INSPECTION STATION
 - S.S. WALL PANELS AND PLASTIC LAMINATE ACCENTS
 - FLOOR FRAME AND FLOORING / CAB THRESHOLD
 - MAIN CAR AND AUXILIARY OPERATING PANELS
 - RAILINGS
 - LIGHTING
 - TRAVELING CABLES
 - ROLLER GUIDES

MACHINE ROOM:

- 8 REMOVE EXISTING CONTROLLER AND ASSOCIATED CONTROL CABLES AND POWER WIRING BETWEEN CAB, CONTROLLER, AND PUMP.
- 9 REMOVE EXISTING HYDRAULIC PUMP - RETAIN PIPING WERE POSSIBLE.

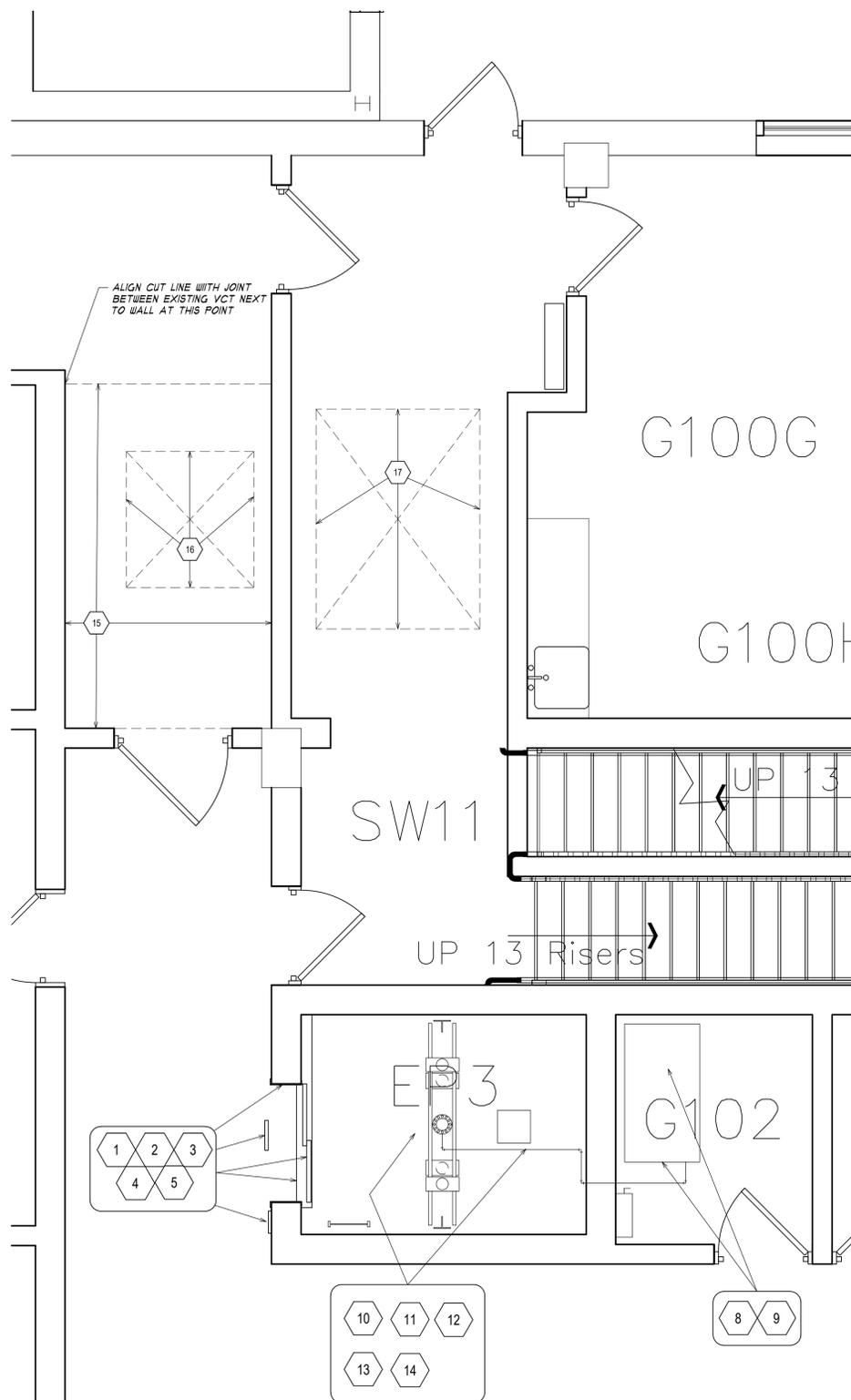
ELEVATOR PIT AREA:

- 10 REMOVE EXISTING HYDRAULIC CYLINDER (JACK). EXISTING CASING TO REMAIN.
- 11 EXISTING FABRICATED STEEL SUPPORT STRUCTURE FOR ELEVATED SUPPORT OF CYLINDER AND BUMPERS TO BE RETAINED. TEMPORARILY DISASSEMBLE AS REQUIRED FOR REPLACEMENT OF CYLINDER.
- 12 EXIST GUIDE RAILS AND SUPPORT STRUCTURE AT WALLS FOR GUIDE RAILS TO REMAIN
- 13 INSPECT EXISTING CASING CASING FOR DAMAGE DURING CONSTRUCTION - PROVIDE ALTERNATE PRICE FOR REPLACEMENT OF CASING SEPARATE FROM BASE BID.
- 14 CLEAN DIRT AND DEBRIS FROM PIT FLOOR AND WALLS.

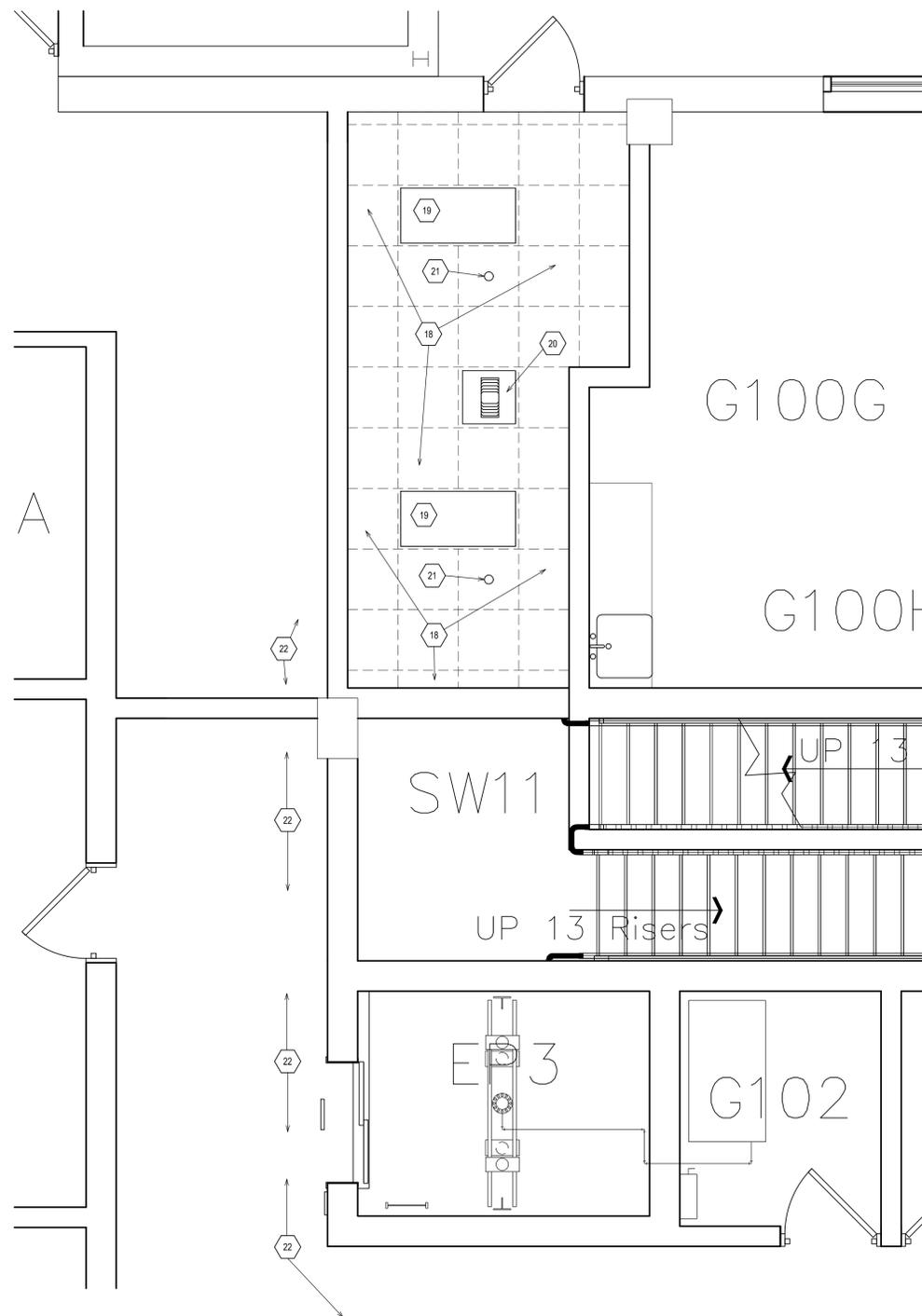
FLOOR & CEILING DEMO NOTES

CORRIDOR 1HW18 & STAIR EXITWAY SW11

- 15 REMOVE EXISTING VINYL COMPOSITION FLOOR TILE AND VINYL BASE BETWEEN DASHED LINE AND EXISTING DOOR OPENING
- 16 SAWCUT AND REMOVE EXISTING ON GRADE CONCRETE FLOOR SLAB IN PREPARATION FOR CONNECTING SANITARY LINE FROM OIL SEPARATOR TO EXISTING BUILDING SANITARY LOCATED BELOW FLOOR IN CORRIDOR. COORDINATE WITH MECHANICAL.
- 17 SAWCUT AND REMOVE EXISTING ON GRADE CONCRETE FLOOR SLAB IN PREPARATION FOR INSTALLATION OF BELOW GRADE OIL SEPARATOR TANK. SEE MECHANICAL PLANS.
- 18 REMOVE EXISTING 2X2 LAY-IN ACOUSTICAL TILE
- 19 EXISTING RECESSED 2X4 LIGHT FIXTURES TO REMAIN
- 20 EXISTING CEILING DIFFUSER TO REMAIN
- 21 EXISTING FIRE SPRINKLER HEADS TO REMAIN
- 22 TEMPORARILY REMOVE EXISTING LAY-IN ACOUSTICAL TILE AND GRID WHERE NECESSARY TO FACILITATE INSTALLATION OF MECHANICAL PIPING ABOVE CEILING. SEE MECHANICAL PLANS



FIRST FLOOR PLAN DEMO ELEVATOR EP3 - VET MED
3/8"=1'-0"



FIRST FLOOR REFL. CEIL. DEMO PLAN EP3 - VET MED
3/8"=1'-0"

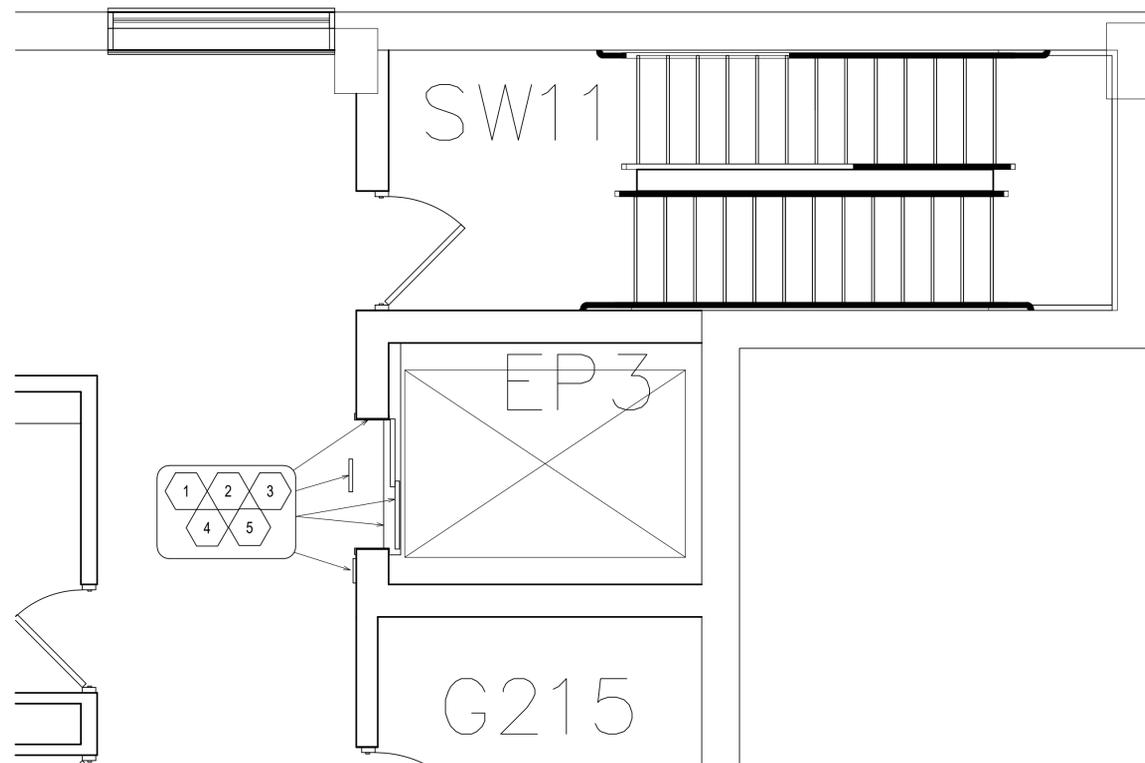


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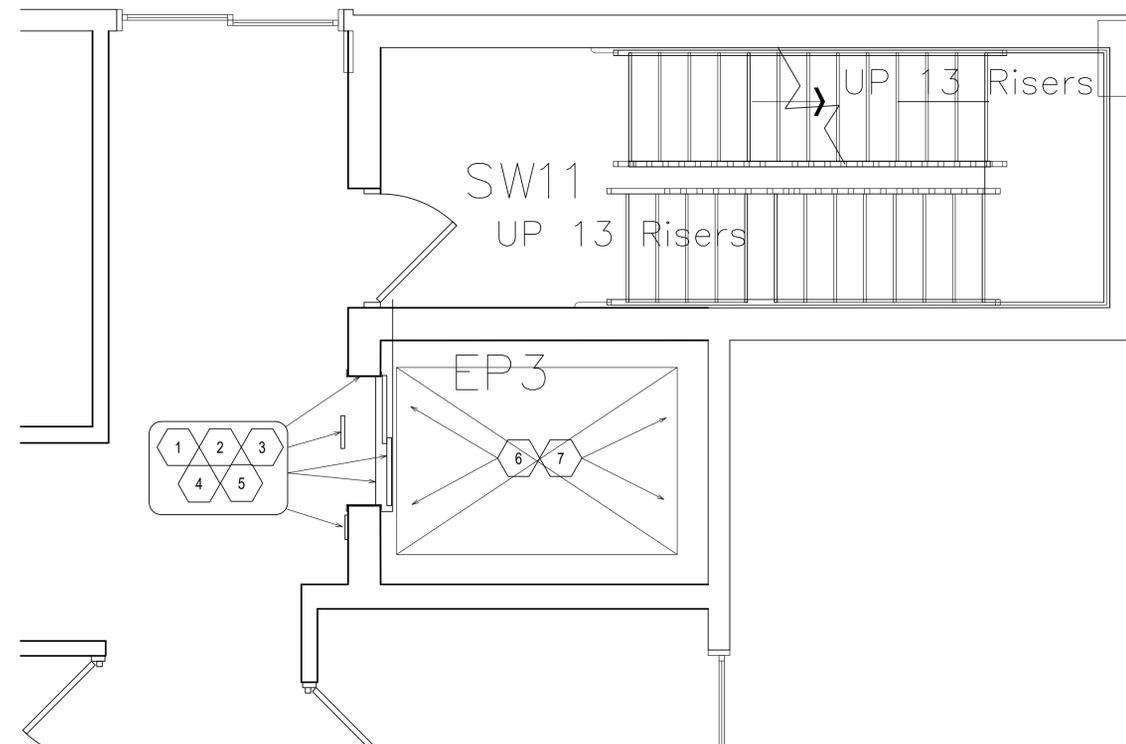
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 SECOND FLOOR DEMO PLAN ELEVATOR EP3 - VET MED
3/8"=1'-0"



 THIRD FLOOR DEMO PLAN ELEVATOR EP3 - VET MED
3/8"=1'-0"

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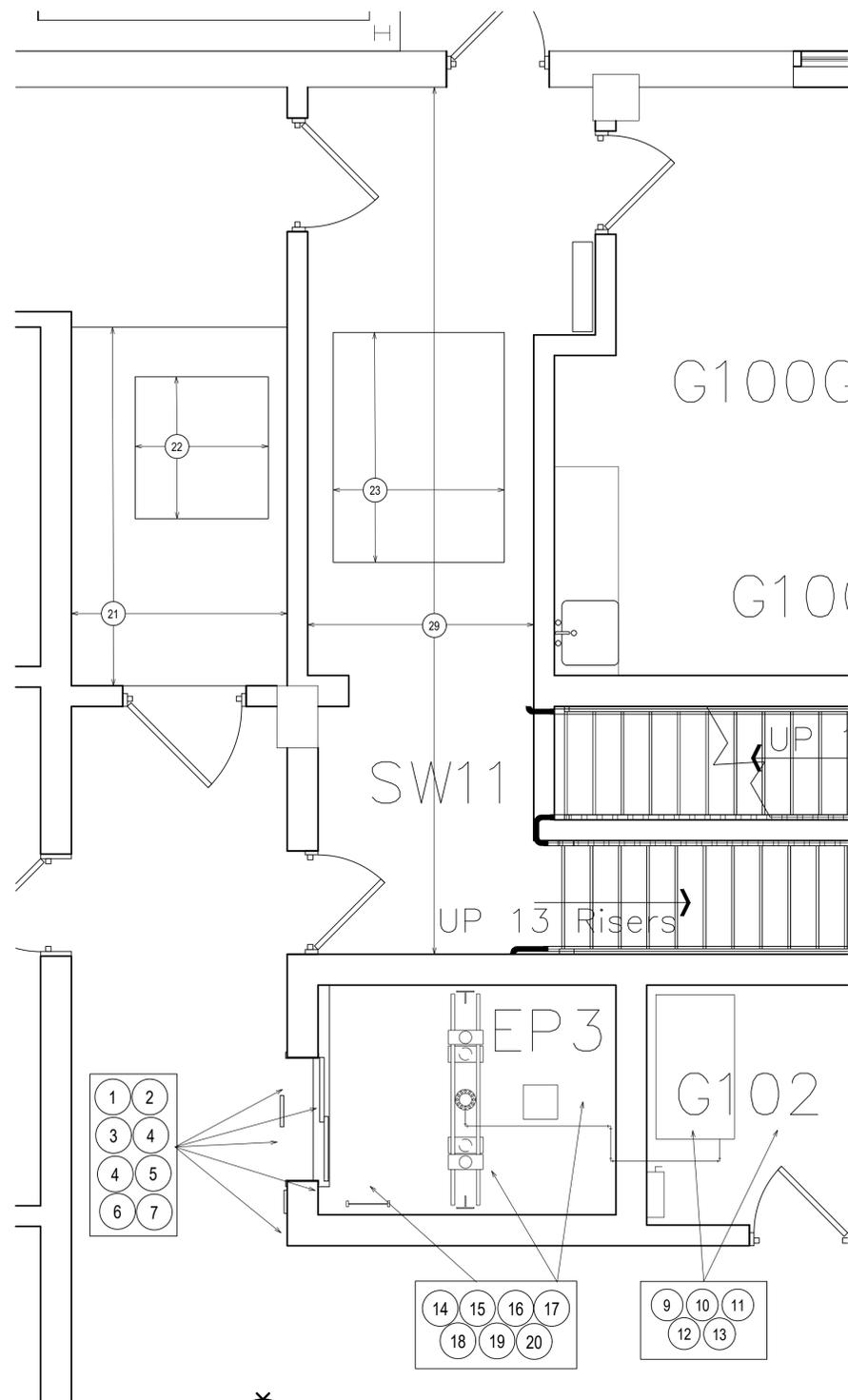
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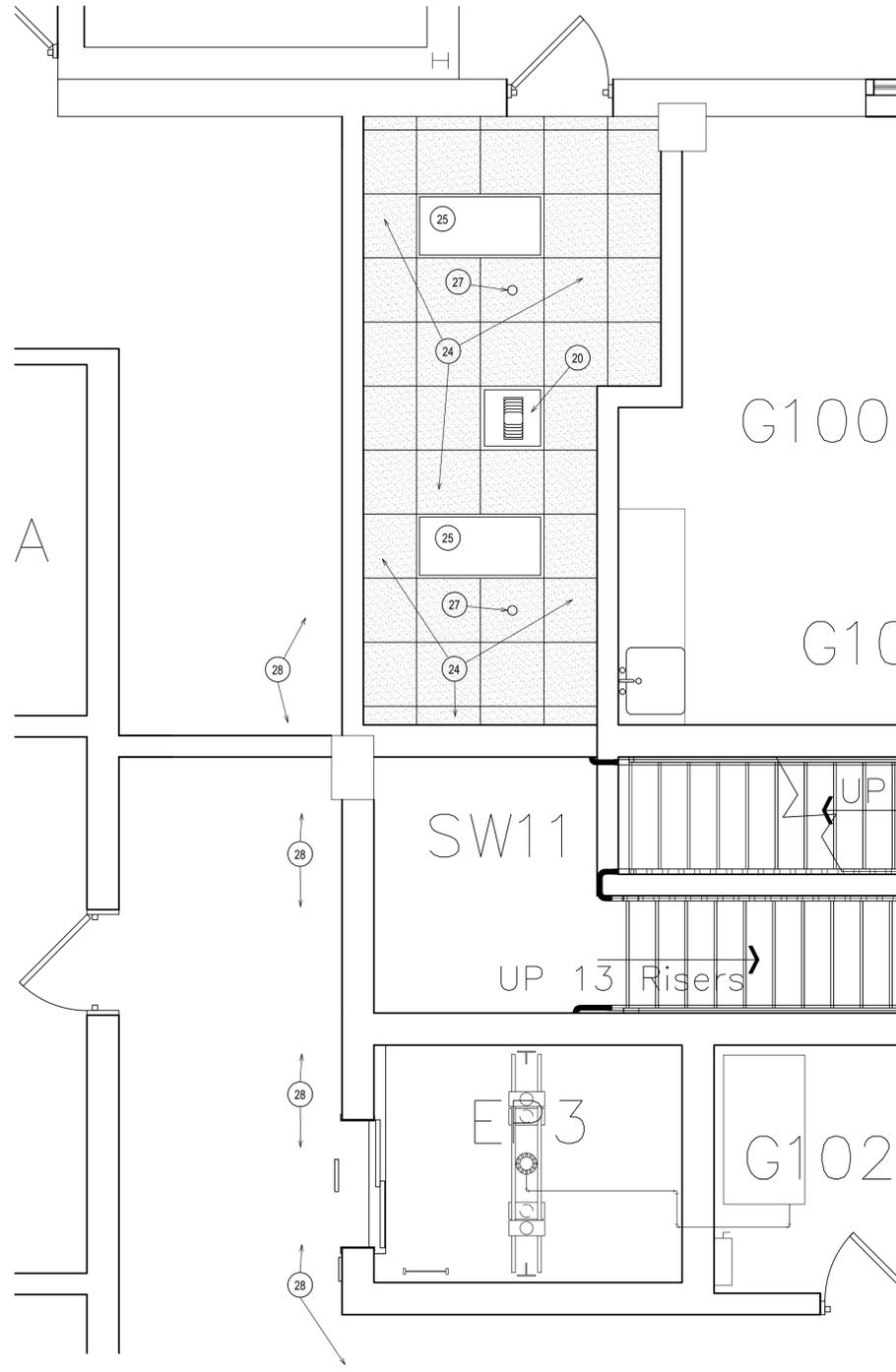
A3



NEW PARTIAL FIRST FLOOR PLAN
ELEVATOR EP3 - VET MED

3/24/02

3/8"-1"=0"



NEW PARTIAL FIRST FLOOR REFLECTED
CEILING PLAN - ELEVATOR EP3 - VET MED

3/24/02

3/8"-1"=0"

KEY ELEVATOR WORK
ELEVATOR EP3 - VET MED

ELEVATOR LOBBIES AT ALL STOPS PROVIDE THE FOLLOWING:

- 1 DIGITAL HALL LANTERNS WITH ILLUMINATED FLOOR INDICATORS AND DIRECTIONAL ARROWS WITH STAINLESS STEEL FINISH
- 2 CALL STATIONS AT EACH LANDING WITH ILLUMINATED CALL BUTTONS WITH KEYPED ACCESS AT TOP AND BOTTOM LEVELS WITH STAINLESS STEEL FINISH
- 3 PROVIDE SUFFICIENT SIZE S.S. PLATES W/ #4 BRUSHED FINISH TO COVER PREVIOUS OPENINGS AT CALL STATIONS & LANTERNS AS REQUIRED.
- 4 PROTECT FLOORS FROM CONSTRUCTION OPERATIONS. REPAIR WALL AND FLOOR SURFACES DAMAGED OR SOILED RESULTING FROM CONSTRUCTION OPERATIONS.
- 5 CLEAN, WIRE BRUSH, AND POLISH EXISTING HOISTWAY THRESHOLDS.
- 6 RESUSE EXISTING STAINLESS STEEL HOISTWAY DOORS AND REINSTALL WITH NEW OPERATING HARDWARE. CLEAN & POLISH EXISTING HOISTWAY DOOR FRAMES
- 7 TACTICAL/BRILLE FLOOR NUMBER SIGNS ON EACH JAMB AT ALL HOISTWAY OPENINGS

ELEVATOR CAB: PROVIDE THE FOLLOWING:

- 8 PROVIDE AND INSTALL NEW ELEVATOR CAB IN ITS ENTIRETY INCLUDING
 - STRUCTURAL CAB SLING FRAMING
 - STRUCTURAL CAB SHELL
 - CAR TOP INSPECTION STATION
 - #4 BRUSHED FINISH S.S. WALL PANEL INTERIOR WITH REPLACEABLE PLASTIC LAMINATE ACCENT PANELS
 - #4 BRUSHED FINISH STAINLESS STEEL CAB DOORS WITH OPERATING HARDWARE
 - SHEET VINYL FLOORING SELECTED BY MSU
 - NICKEL/ALUMINUM CAB THRESHOLD
 - STAINLESS STEEL COVE WITH STRIP LED LIGHTING AT CAB WALL PERIMETER
 - PAINTED STEEL FINISHED CEILING WITH ACCESS PANEL
 - EXHAUST FAN
 - MAIN CAR OPERATING PANEL
 - BARRIER FREE ACCESSIBLE AUXILIARY OPERATING PANEL
 - 8" WIDE STAINLESS STEEL CAB RAILINGS (3 WALLS...)
 - TRAVELING CONTROL AND POWER CABLES
 - ROLLER GUIDES

MACHINE ROOM: PROVIDE THE FOLLOWING:

- 9 PROGRAMMABLE SOLID STATE HYDRAULIC ELEVATOR CONTROLLER AND PROGRAMMING FOR ELEVATOR OPERATION TO MEET REQUIREMENTS OF MICHIGAN ELEVATOR CODE AND MSU SPECIFICATION STANDARDS.
- 10 CABLES, CONDUITS, FITTINGS, ETC. FOR CONNECTING CONTROLLER TO PUMP OPERATION AND CAR OPERATING PANELS.
- 11 HYDRAULIC ELEVATOR PUMP (CAPACITY AND ELECTRICAL CHARACTERISTICS TO BE SIMILAR TO EXISTING PUMP AND CAPABLE OF PROVIDING TRAVEL SPEED OF 125 FPM) PROVIDE NECESSARY ELECTRICAL AND PIPING MODIFICATIONS FOR CONNECTING PUMP AND CYLINDERS.
- 12 PREP AND PAINT MACHINE ROOM WALLS BENJAMIN MOORE PAINT COLOR "WINTER WHEAT #232)
- 13 PREP AND PAINT MACHINE ROOM FLOOR WITH BENJAMIN MOORE PAINT COLOR "DECK GRAY PF-71" -

HOISTWAY AND PIT AREA: PROVIDE THE FOLLOWING:

- 14 GALVANIZED STEEL GRATING TO FIT EXISTING SUMP. SUMP PUMP, PIPING, FITTINGS, FOR CONNECTION TO OIL SEPARATOR. SUMP PUMP INSTALLED BELOW GRATING - SEE MECHANICAL/ELECTRICAL DRAWINGS.
- 15 HYDRAULIC CYLINDER AT EACH HOISTWAY INSTALLED IN EXISTING CASING AND REWORK PIPING BETWEEN PUMP AND JACK.
- 16 INSPECT EXISTING CASING FOR DAMAGE DURING CONSTRUCTION - PROVIDE BASE COST FOR CASING REPLACEMENT AS AN ALTERNATE COST IN BID.
- 17 CLEAN AND TOUCH UP PAINT EXISTING STRUCTURAL STEEL SUPPORT STRUCTURE FOR HYDRAULIC JACK AND SPRING BUMPERS. MATCH EXISTING PAINT COLOR
- 18 CLEAN, PREP, AND PAINT ELEVATOR PIT FLOOR AND PIT WALLS WITH SHERWIN WILLIAMS COLOR "GRAY MATTERS - #SW7044. PAINT PIT WALLS UP TO THE FIRST FLOOR LINE. PAINT EXISTING PIT LADDERS. EXTEND UPPER RAILS WERE NECESSARY TO HEIGHT ABOVE ACCESS FLOOR LEVEL TO COMPLY WITH ELEV. CODE.
- 19 CHECK GUIDE RAILS FOR STRAIGHT AND UNIFORMLY VERTICAL ALIGNMENT. ADJUST AS NECESSARY TO ALIGN RAILS.
- 20 NEW SPRING BUMPERS CONFIGURED FOR NEW CAB STRUCTURE AND WEIGHT.

NEW FLOOR & CEILING NOTES
CORRIDOR 1HW18 & STAIR EXITWAY SW11

- | | | | |
|----|---|----|--|
| 21 | NEW VINYL COMPOSITION FLOOR TILE TO CLOSELY MATCH EXISTING FLOOR TILE BEING REMOVED AND NEW VINYL COVE BASE TO MATCH EXISTING. SELECTION BY MSU PROJECT MGR. | 25 | REMOVE EXISTING LIGHT FIXTURE DIFFUSER, CLEAN DIFFUSERS, REINSTALL DIFFUSER. |
| 22 | NEW 4" CONCRETE FLOOR SLAB PATCH WITH 4X4X1/4 WUF. DRILL AND INSTALL #3 X 1" STEEL REINFORCING DOWELS AT 18" O.C. TO CONNECT EXISTING AND NEW CONCRETE. COMPACT GRANULAR BACKFILL TO 95% OF MAX. DENSITY. CONCRETE FINISH TO BE SMOOTH AND IN SAME PLANE AS TOP OF EXISTING SURROUNDING CONCRETE FLOORS | 26 | EXISTING CEILING DIFFUSER REMAINS |
| 23 | NEW 4" CONCRETE FLOOR SLAB WITH 4X4X1/4 WUF. DRILL AND INSTALL #3 X 1" STEEL REINFORCING DOWELS AT 18" O.C. TO CONNECT EXISTING AND NEW CONCRETE. FINISH TO BE SMOOTH AND IN SAME PLANE AS TOP OF EXISTING SURROUNDING CONCRETE FLOOR. GRIND AND POLISH NEW CONC. FLOOR PATCH TO MATCH FLOOR TEXTURE OF SURROUNDING CONCRETE FLOOR. | 27 | EXISTING FIRE SPRINKLER HEADS REMAIN. ADJUST TRIM RING TO NEW CEILING TILE. |
| 24 | NEW 2X2 USG RADAR ACOUSTICAL LAY-IN TILE IN EXISTING SUSPENSION GRID. | 28 | REINSTALL EXISTING GRID AND CEILING TILE UPON COMPLETION OF MECHANICAL WORK ABOVE CEILING SEE MECHANICAL PLANS |
| | | 29 | PREP AND PAINT EXISTING AND PATCHED CONCRETE FLOOR WITH EPOXY SLIP RESISTANT PAINT. COLOR: MEDIUM GRAY |



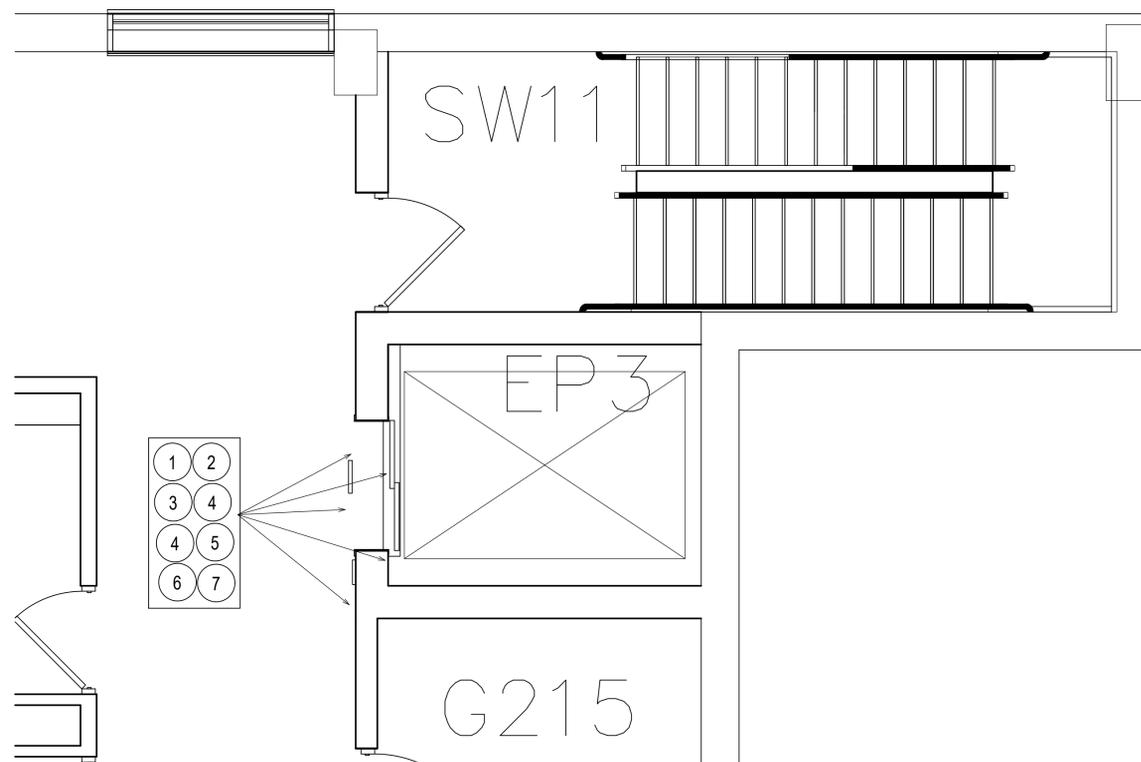
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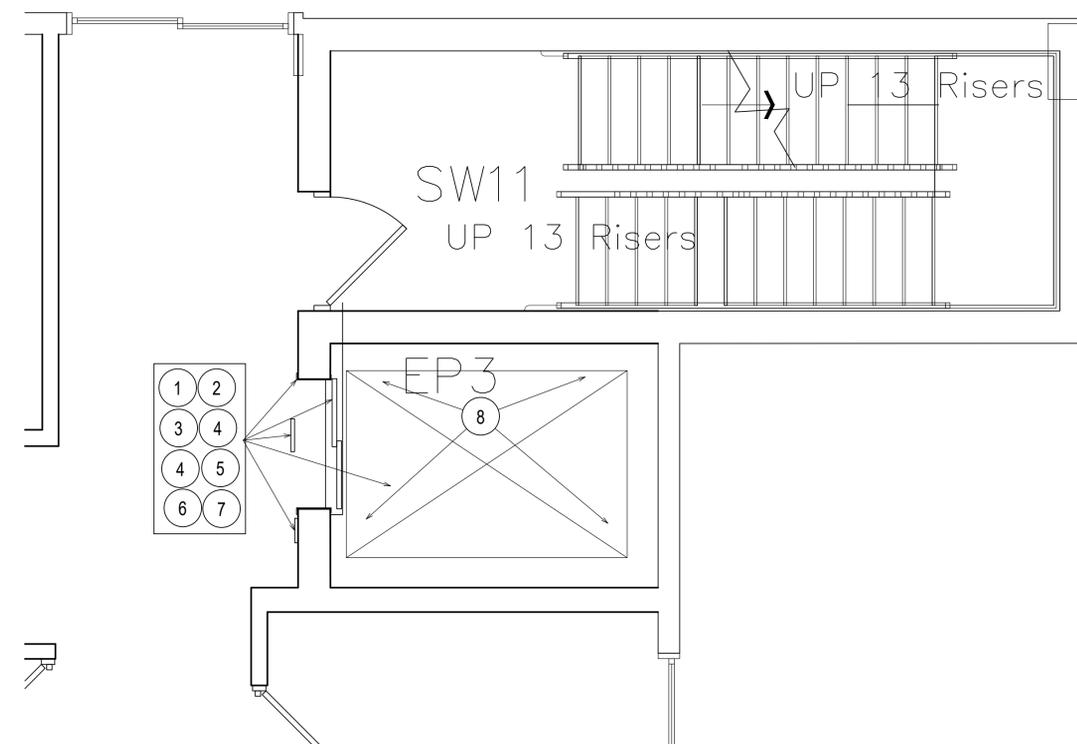
Veterinary Medical Center
REPLACE ELEVATORS 3 AND 4



SECOND FLOOR NEW PLAN ELEVATOR EP3 - VET MED



3/8"=1'-0"



THIRD FLOOR NEW PLAN ELEVATOR EP3 - VET MED



3/8"=1'-0"

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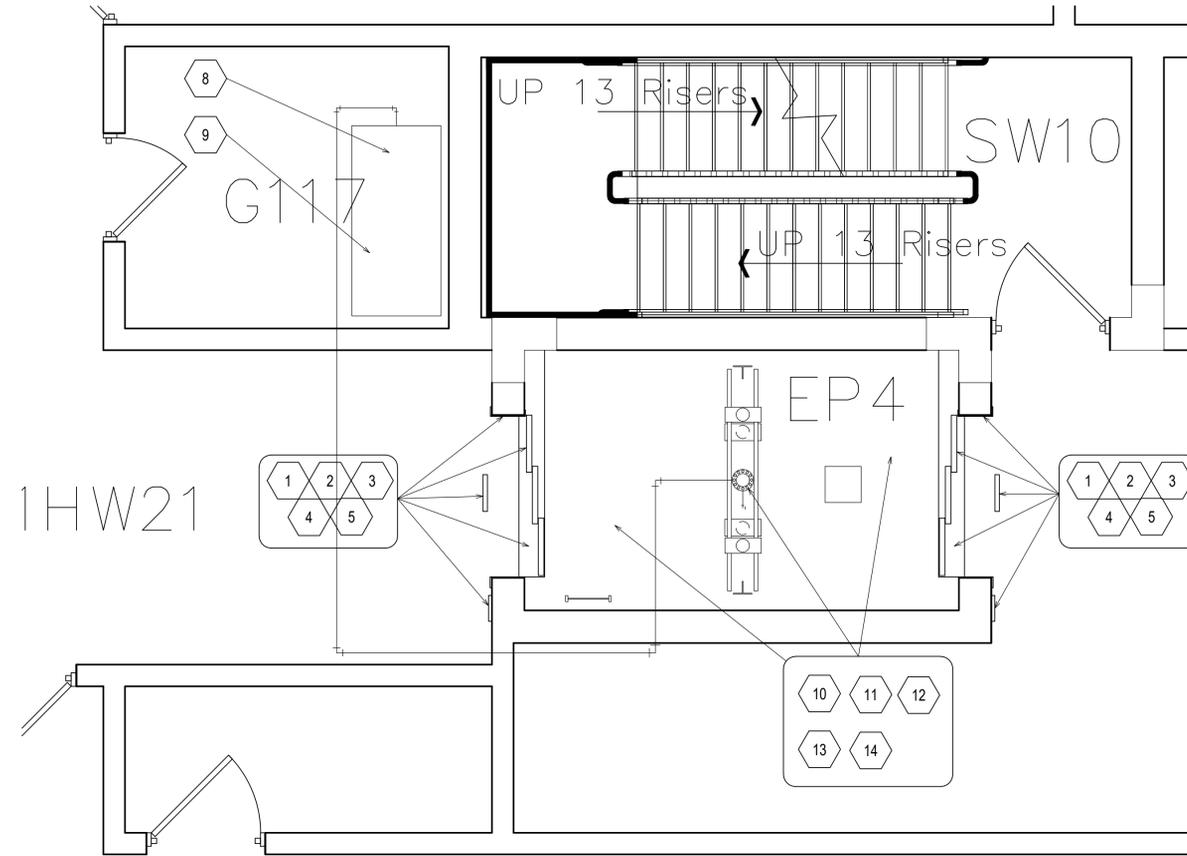
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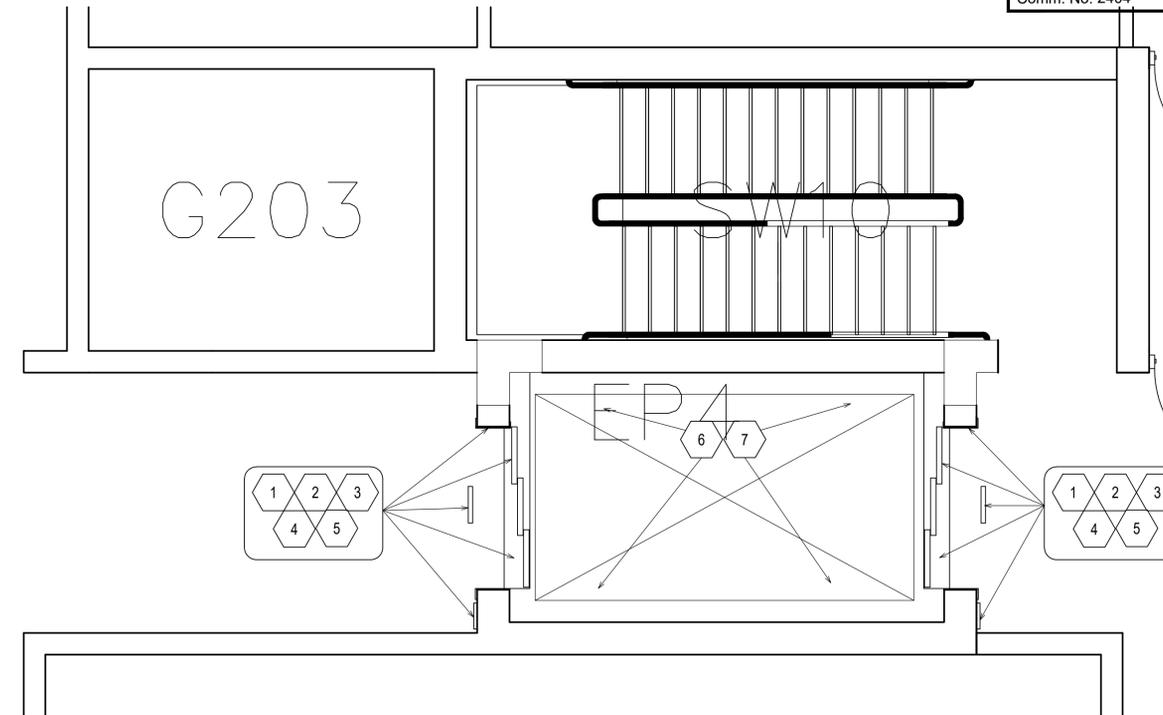
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FIRST FLOOR PLAN DEMO FREIGHT ELEV - EP4 VET MED
3/8"-1'-0"



SECOND FLOOR PLAN DEMO FREIGHT ELEV - EP4 VET MED
3/8"-1'-0"

**ELEVATOR DEMOLITION NOTES
FREIGHT ELEVATOR EP4 - VET MED**

ELEVATOR LOBBIES AT ALL LEVELS	
1	REMOVE EXISTING LANTERN ON WALL ABOVE HOISTWAY DOOR AND PREP FOR NEW LANTERN
2	REMOVE EXISTING CALL STATIONS AND PREP WALL AS REQUIRED FOR NEW CALL STATIONS
3	REMOVE EXISTING 3 PANEL SIDE CLOSING HOISTWAY DOORS AND DOOR OPERATORS
4	REMOVE EXIST FLOOR DESIGNATION SIGNAGE ON HOISTWAY DOOR JAMBS
5	EXISTING STAINLESS STEEL HOISTWAY DOOR FRAMES, THRESHOLDS, AND TRACKS TO REMAIN.
ELEVATOR CABS:	
6	REMOVE EXISTING 3 PANEL SIDE CLOSING CAB DOORS, DOOR OPERATING HARDWARE AND TRACKS
7	REMOVE EXISTING ELEVATOR CAB IN ITS ENTIRETY INCLUDING <ul style="list-style-type: none"> • SLING • SHELL • INSPECTION STATION • S.S. WALL PANELS AND CEILING • CAB DOOR AND DOOR OPERATORS • FLOOR FRAME AND FLOORING 1 CAB THRESHOLD • MAIN CAR AND AUXILIARY OPERATING PANELS • RAILINGS • LIGHTING • TRAVELING CABLES • ROLLER GUIDES

MACHINE ROOM:	
8	REMOVE EXISTING CONTROLLER AND ASSOCIATED CONTROL CABLES AND POWER WIRING BETWEEN CAB, CONTROLLER, AND PUMP.
9	REMOVE EXISTING HYDRAULIC PUMP - RETAIN PIPING WERE POSSIBLE.
ELEVATOR PIT AREA:	
10	REMOVE EXISTING HYDRAULIC CYLINDER (JACK). EXISTING CASING TO REMAIN.
11	EXISTING FABRICATED STEEL SUPPORT STRUCTURE FOR ELEVATED SUPPORT OF CYLINDER AND BUMPERS TO BE RETAINED. TEMPORARILY DISASSEMBLE AS REQUIRED FOR REPLACEMENT OF CYLINDER.
12	EXIST GUIDE RAILS AND SUPPORT STRUCTURE AT WALLS FOR GUIDE RAILS TO REMAIN
13	INSPECT EXISTING CASING CASING FOR DAMAGE DURING CONSTRUCTION - PROVIDE ALTERNATE PRICE FOR REPLACEMENT OF CASING SEPARATE FROM BASE BID.
14	CLEAN DIRT AND DEBRIS FROM PIT FLOOR AND WALLS.

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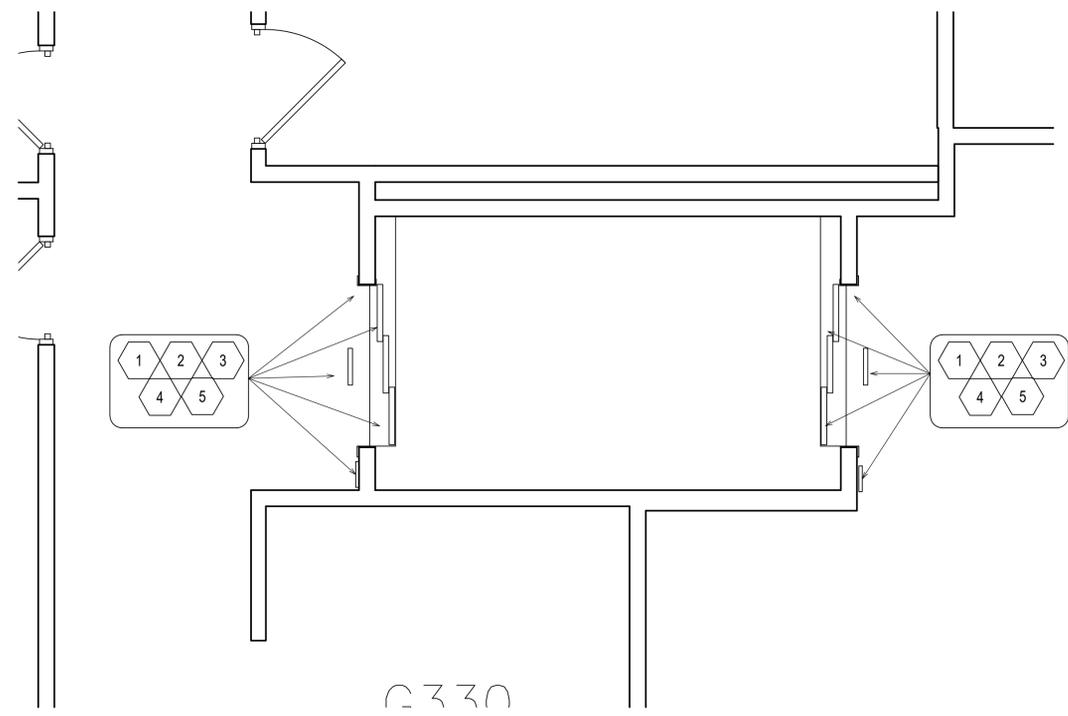
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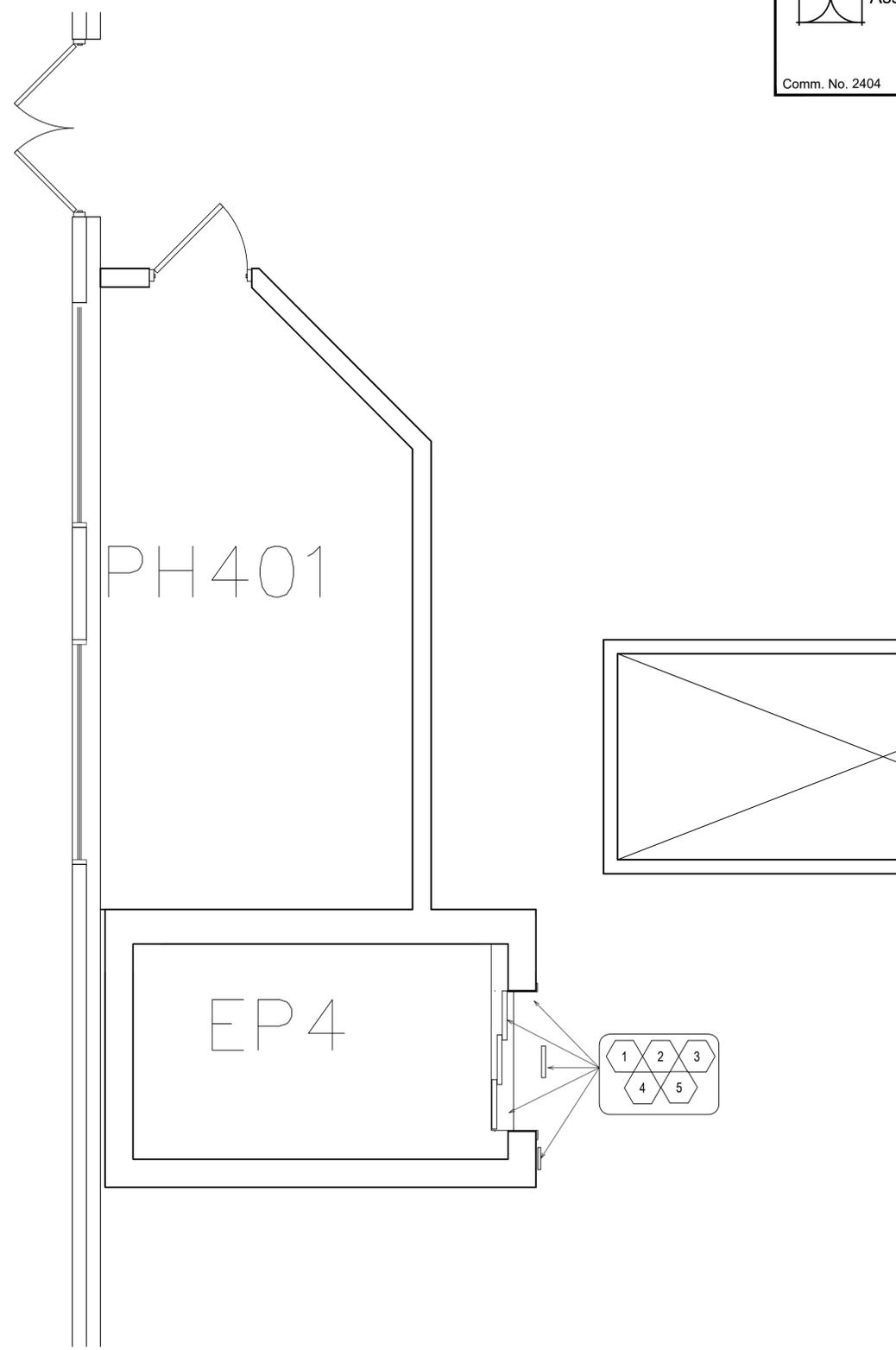
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THIRD FLOOR PLAN DEMO FREIGHT ELEV - EP4 VET MED
3/8"-1'-0"



PENTHOUSE FLOOR PLAN DEMO FREIGHT ELEV - EP4 VET MED
3/8"-1'-0"



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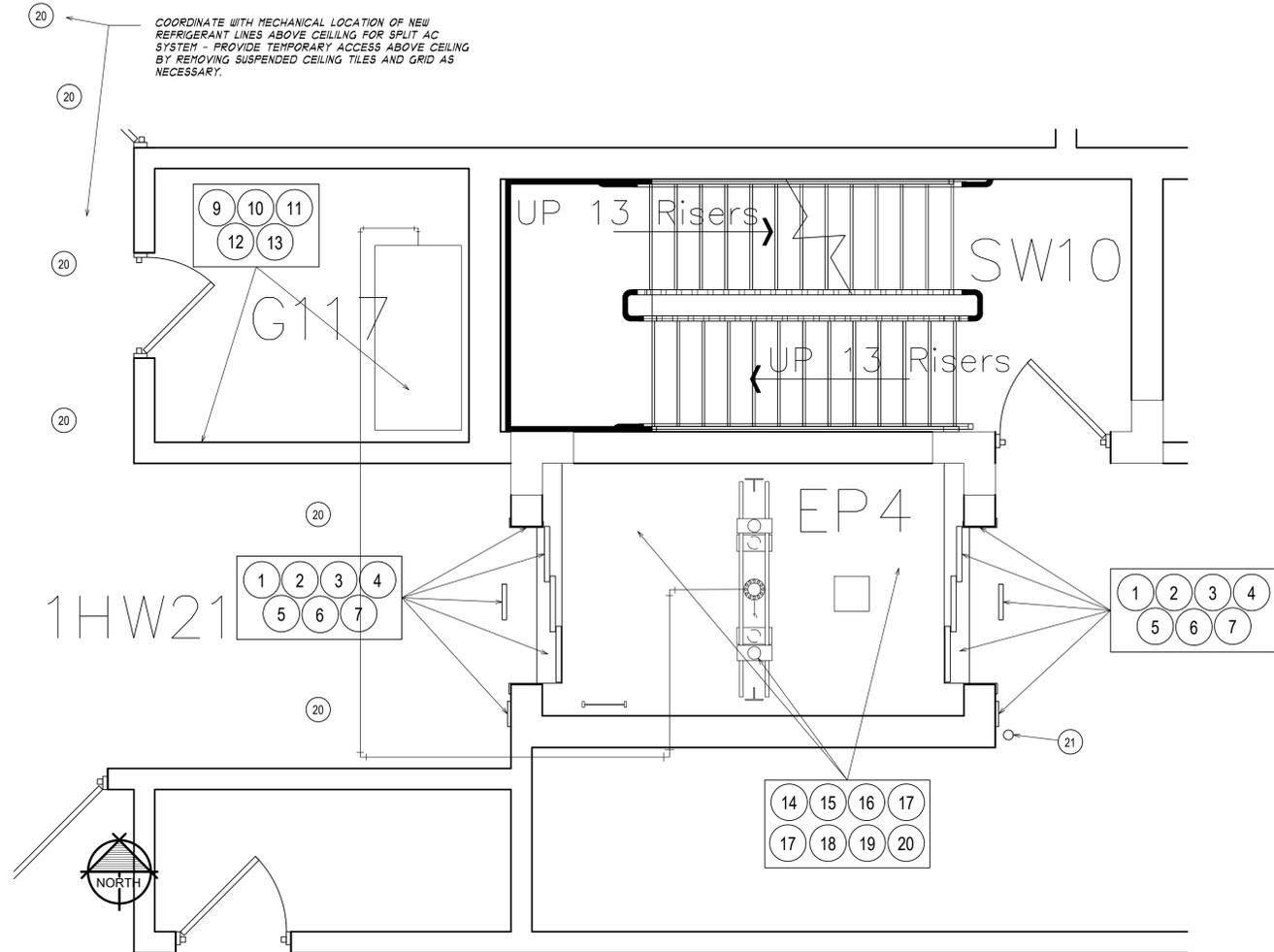
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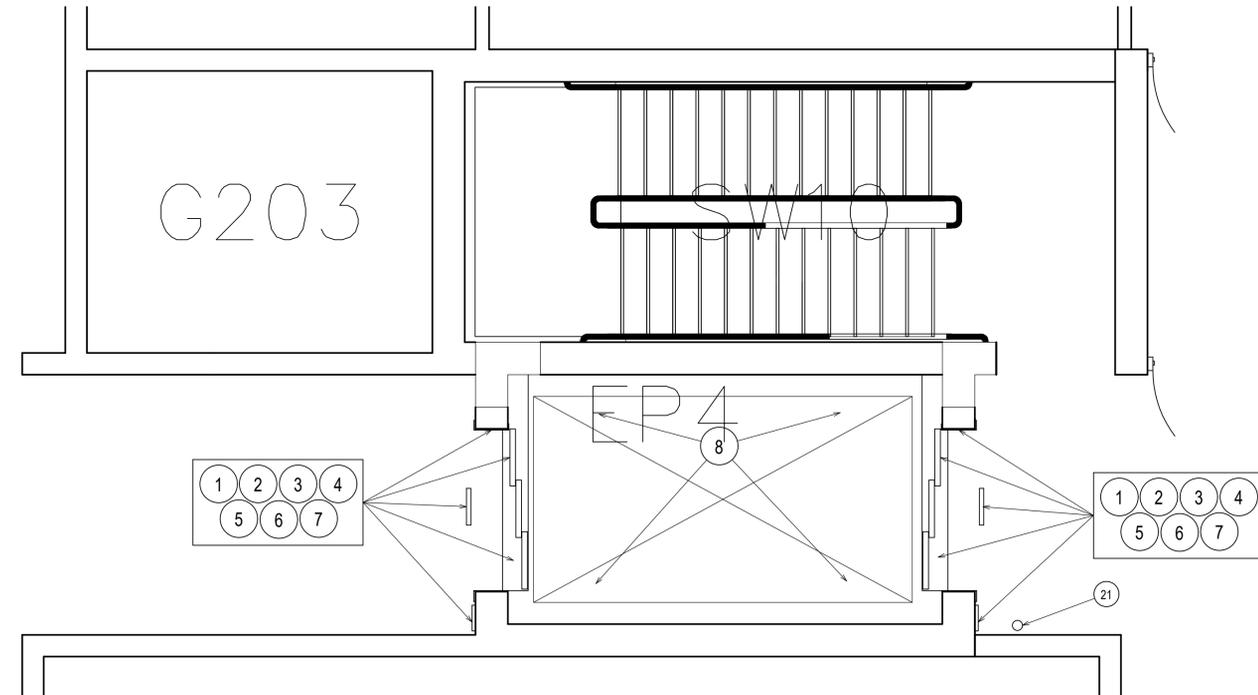
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FIRST FLOOR NEW PLAN FREIGHT ELEV - EP4 VET MED

3/24/2023 3/8"-1'-0"



SECOND FLOOR NEW PLAN FREIGHT ELEV - EP4 VET MED

3/24/2023 3/8"-1'-0"

**KEY ELEVATOR WORK
 FREIGHT ELEVATOR EP4 - VET MED**

ELEVATOR LOBBIES AT ALL STOPS PROVIDE THE FOLLOWING:	
1	DIGITAL HALL LANTERNS WITH ILLUMINATED FLOOR INDICATORS AND DIRECTIONAL ARROWS WITH STAINLESS STEEL FINISH
2	CALL STATIONS AT EACH LANDING WITH ILLUMINATED CALL BUTTONS WITH KEYS ACCESS AT TOP AND BOTTOM LEVELS WITH STAINLESS STEEL FINISH
3	PROVIDE SUFFICIENT SIZE S.S. PLATES W/ #4 BRUSHED FINISH TO COVER PREVIOUS OPENINGS AT CALL STATIONS / LANTERNS AS REQUIRED.
4	PROTECT FLOORS FROM CONSTRUCTION OPERATIONS. REPAIR WALL AND FLOOR SURFACES DAMAGED OR SOILED RESULTING FROM CONSTRUCTION OPERATIONS.
5	CLEAN, WIRE BRUSH, AND POLISH EXISTING HOISTWAY THRESHOLDS.
6	3 PANEL SIDE CLOSING STAINLESS STEEL HOISTWAY DOORS WITH NEW OPERATING HARDWARE. CLEAN / POLISH EXISTING HOISTWAY DOOR FRAMES
7	TACTICAL/BRILLE FLOOR NUMBER SIGNS ON EACH JAMB AT ALL HOISTWAY OPENINGS
ELEVATOR CAB: PROVIDE THE FOLLOWING:	
8	<ul style="list-style-type: none"> PROVIDE AND INSTALL NEW ELEVATOR CAB IN ITS ENTIRETY INCLUDING STRUCTURAL CAB SLING FRAMING STRUCTURAL CAB SHELL CAR TOP INSPECTION STATION #50L FINISH S.S. WALL PANELS AT LONG SIDE WALLS #50L FINISH STAINLESS STEEL CAB DOORS WITH OPERATING HARDWARE #14 BRUSHED STAINLESS STEEL FINISH ON DOOR RETURNS AND WALL SECTION AT MAIN CAR OPERATING #14 BRUSHED STAINLESS STEEL FINISH PERIMETER LIGHT COVE RUBBERIZED FLOORING SELECTED BY MSU DESIGNED FOR CUSHION AND DURABILITY FOR HOOFED ANIMALS INCLUDING HORSES AND CATTLE. NICKEL/ALUMINUM CAB THRESHOLD STAINLESS STEEL COVE WITH STRIP LED LIGHTING AT CAB WALL PERIMETER PAINTED STEEL FINISHED CEILING WITH ACCESS PANEL EXHAUST FAN MAIN CAR OPERATING PANEL BARRIER FREE ACCESSIBLE AUXILIARY OPERATING PANEL 8" WIDE STAINLESS STEEL CAB RAILINGS (3 WALLS) TRAVELING CONTROL AND POWER CABLES ROLLER GUIDES

MACHINE ROOM: PROVIDE THE FOLLOWING:	
9	PROGRAMMABLE SOLID STATE HYDRAULIC ELEVATOR CONTROLLER AND PROGRAMMING FOR ELEVATOR OPERATION TO MEET REQUIREMENTS OF MICHIGAN ELEVATOR CODE AND MSU SPECIFICATION STANDARDS.
10	CABLES, CONDUITS, FITTINGS, ETC. FOR CONNECTING CONTROLLER TO PUMP OPERATION AND CAR OPERATING PANELS.
11	HYDRAULIC ELEVATOR PUMP (CAPACITY AND ELECTRICAL CHARACTERISTICS TO BE SIMILAR TO EXISTING PUMP AND CAPABLE OF PROVIDING TRAVEL SPEED OF 125 FPM) PROVIDE NECESSARY ELECTRICAL AND PIPING MODIFICATIONS FOR CONNECTING PUMP AND CYLINDERS.
12	PREP AND PAINT MACHINE ROOM WALLS BENJAMIN MOORE PAINT COLOR "WINTER WHEAT #232"
13	PREP AND PAINT MACHINE ROOM FLOOR WITH BENJAMIN MOORE PAINT COLOR "DECK GRAY PF-1" -
HOISTWAY AND PIT AREA: PROVIDE THE FOLLOWING:	
14	GALVANIZED STEEL GRATING TO FIT EXISTING SUMP. SUMP PUMP, PIPING, FITTINGS, FOR CONNECTION TO OIL SEPARATOR. SUMP PUMP INSTALLED BELOW GRATING - SEE MECHANICAL/ELECTRICAL DRAWINGS.
15	HYDRAULIC CYLINDER AT EACH HOISTWAY INSTALLED IN EXISTING CASING AND REWORK PIPING BETWEEN PUMP AND JACK.
16	INSPECT EXISTING CASING FOR DAMAGE DURING CONSTRUCTION - PROVIDE BASE COST FOR CASING REPLACEMENT AS AN ALTERNATE COST IN BID.
17	CLEAN AND TOUCH UP PAINT EXISTING STRUCTURAL STEEL SUPPORT STRUCTURE FOR HYDRAULIC JACK AND SPRING BUMPERS. MATCH EXISTING PAINT COLOR
18	CLEAN, PREP, AND PAINT ELEVATOR PIT FLOOR AND PIT WALLS WITH SHERWIN WILLIAMS COLOR "GRAY MATTERS - #507044. PAINT PIT WALLS UP TO THE FIRST FLOOR LINE PAINT EXISTING PIT LADDERS. EXTEND UPPER RAILS WERE NECESSARY TO HEIGHT ABOVE ACCESS FLOOR LEVEL TO COMPLY WITH ELEV. CODE.
19	CHECK GUIDE RAILS FOR STRAIGHT AND UNIFORMLY VERTICAL ALIGNMENT. ADJUST AS NECESSARY TO ALIGN RAILS.
20	NEW SPRING BUMPERS CONFIGURED FOR NEW CAB STRUCTURE AND WEIGHT.
CEILING WORK REQUIRED FOR MECHANICAL PIPING INSTALLATION:	
20	TEMPORARILY REMOVE PORTIONS OF EXISTING SUSPENDED ACOUSTICAL CEILING TILE (AND GRID AS REQUIRED) TO FACILITATE INSTALLATION OF NEW MECHANICAL PIPING. REPLACE UPON COMPLETION OF PIPING. SEE MECHANICAL PLANS.
21	MODIFY AND REFINISH EXISTING CEILING AND/OR FLOOR WERE NEW SANITARY PIPING IS BEING INSTALLED FIRESTOP ALL OPENINGS WHERE NEW PIPE PASSES THROUGH FLOORS - SEE MECHANICAL



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Infrastructure
Planning and Facilities

MICHIGAN STATE
UNIVERSITY

Veterinary Medical Center
REPLACE ELEVATORS 3 AND 4

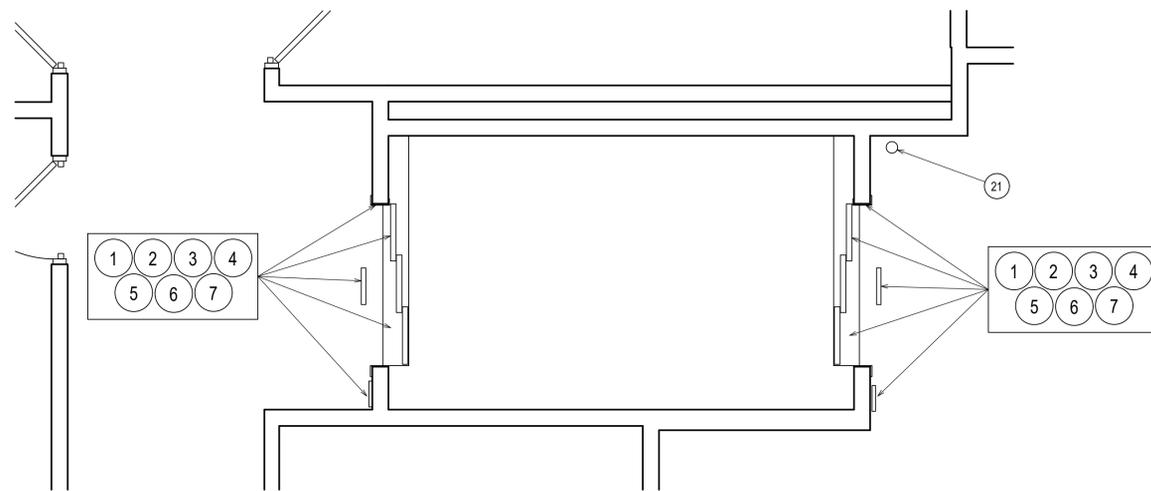
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CIVIL	
L.A.	
INT. DES.	
CONST REP	T. Pacifico
APPR.	D. Launstein
DATE	Feb. 20, 2026

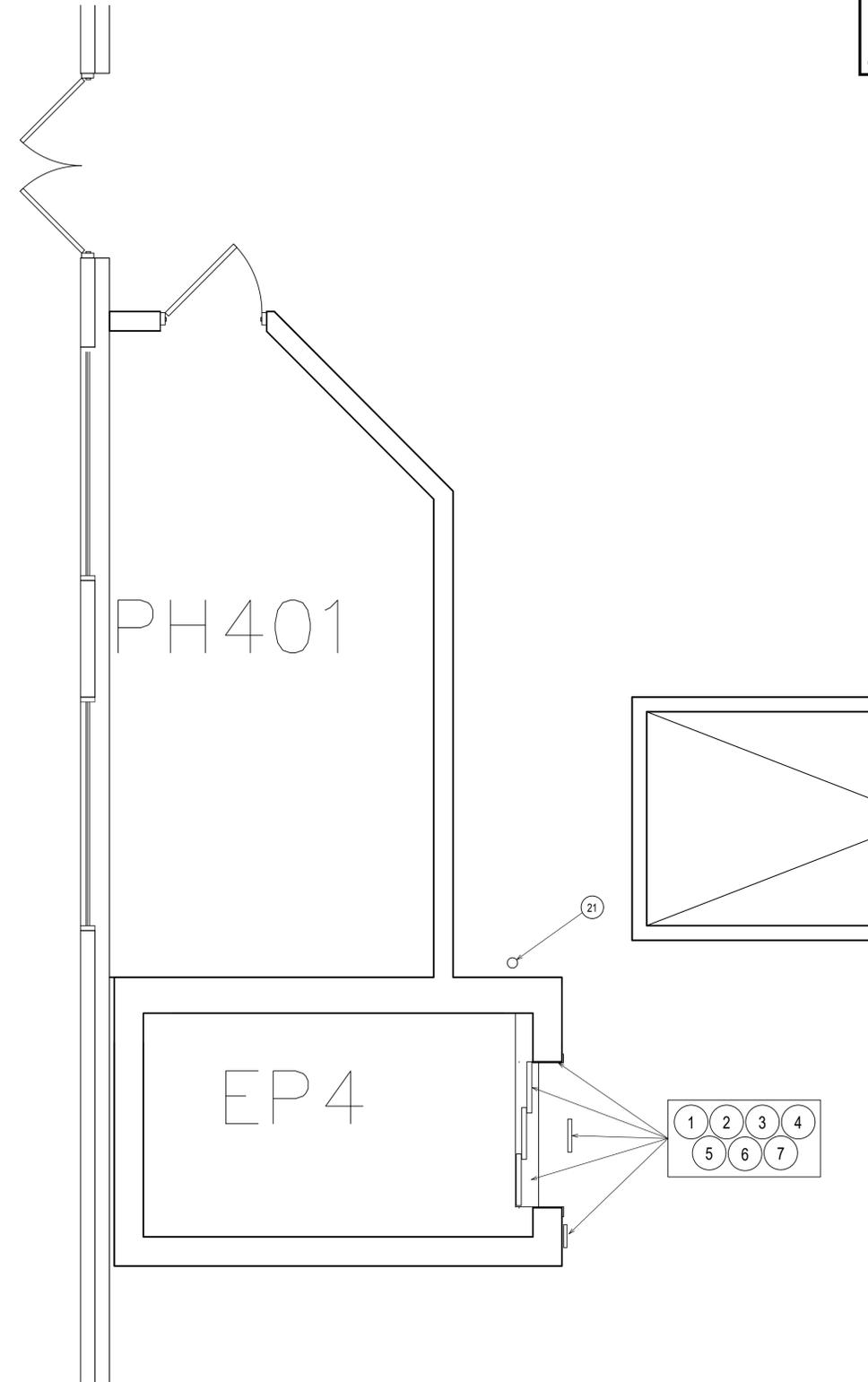
SCALE AS NOTED
REVISIONS

BID SET

A5.1



 **THIRD FLOOR NEW PLAN FREIGHT ELEV - EP4 VET MED**
3/8"=1'-0"



 **PENTHOUSE FLOOR NEW PLAN FREIGHT ELEV - EP4 VET MED**
3/8"=1'-0"



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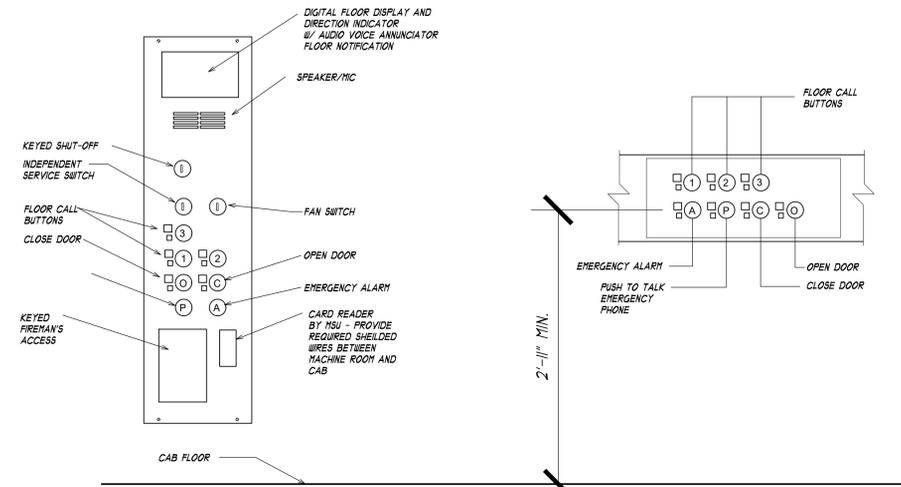
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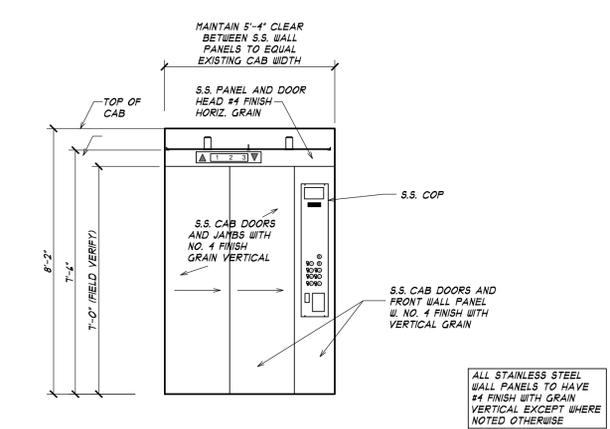
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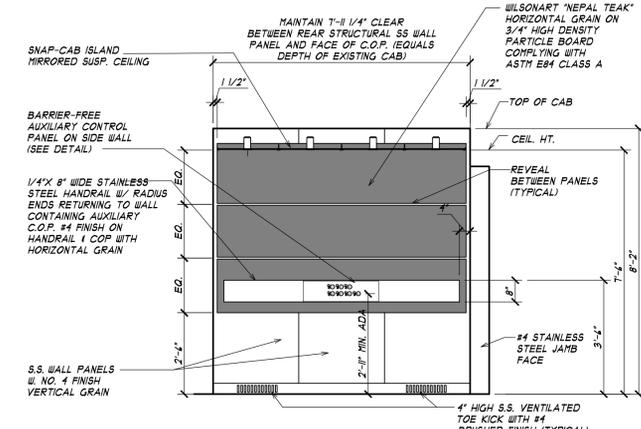


1
A6
MAIN AND AUXILIARY CAR OPERATING
PANELS PASSENGER ELEVATOR - EP3 VET MED
SCALE: 1/2" = 1'-0"

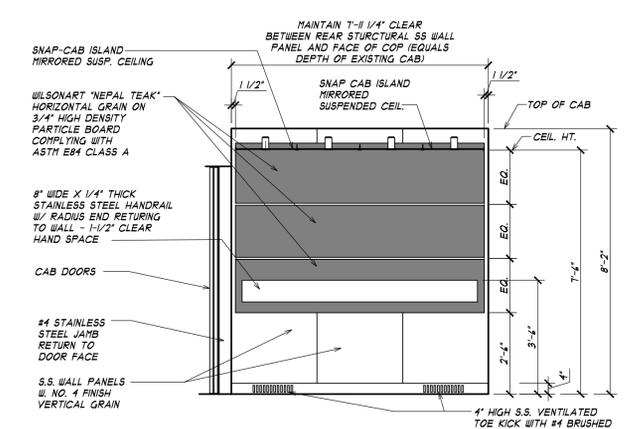
- NOTES:
1. SEE CAB ELEVATIONS FOR CONTROL PANEL LOCATION.
2. VERIFY BUTTON LAYOUT WITH MSU CONSTRUCTION REPRESENTATIVE.



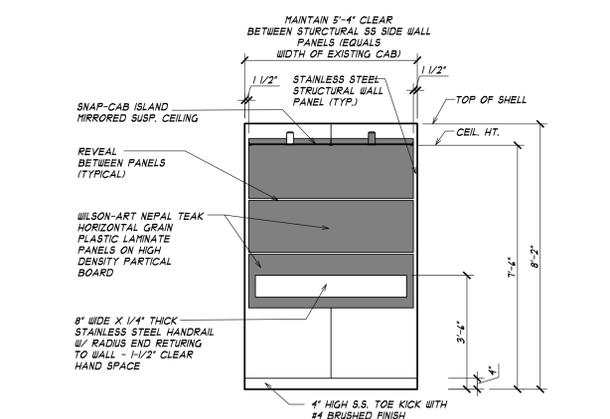
2
A6
FRONT CAB WALL ELEVATION
PASSENGER ELEV. EP3 - VET MED
3/8" x 1'-0"



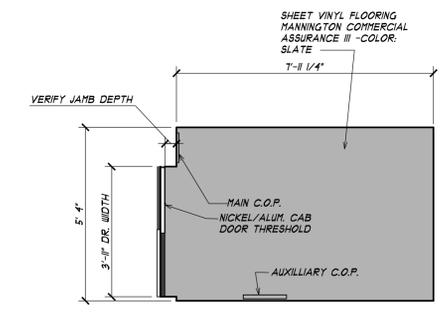
3
A6
SOUTH CAB WALL ELEVATION
PASSENGER ELEV. EP3 - VET MED
3/8" x 1'-0"



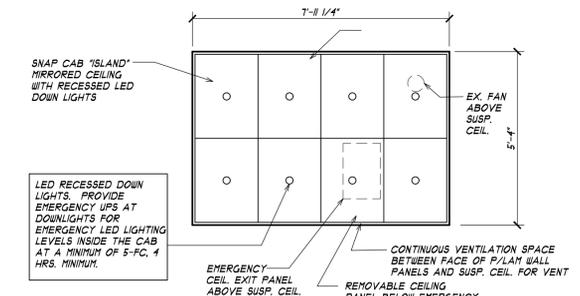
4
A6
NORTH CAB WALL ELEVATION
PASSENGER ELEV. EP3 - VET MED
3/8" x 1'-0"



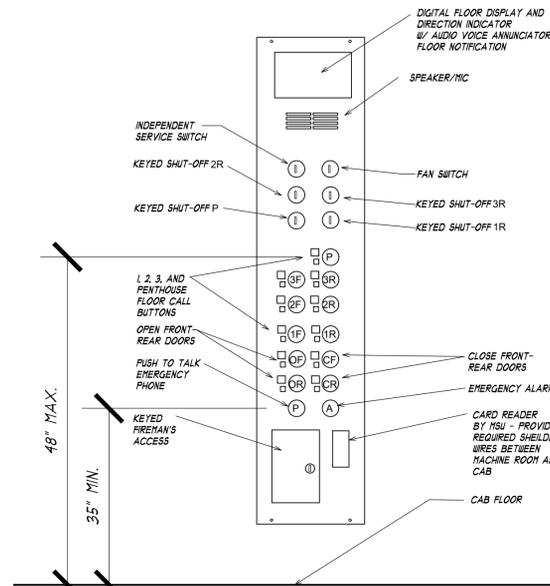
5
A6
REAR CAB WALL ELEVATION
PASSENGER ELEV. EP2 - VET MED
3/8" x 1'-0"



6
A6
CAB FLOOR PLAN PASSENGER
ELEVATOR EP3 - VET MED
3/8" x 1'-0"
MAINTAIN INSIDE CAB DIMENSIONS SHOWN WHICH MATCH OBSOLETE CAB DIMENSIONS



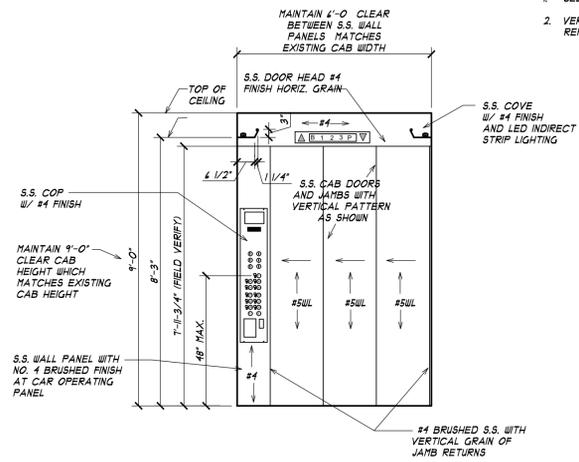
7
A6
CAB REFLECTED CEILING PLAN
PASSENGER ELEV. EP3 - VET MED
3/8" x 1'-0"



1 MAIN CAR OPERATING PANEL (2 REQUIRED) FREIGHT ELEVATOR - EP4

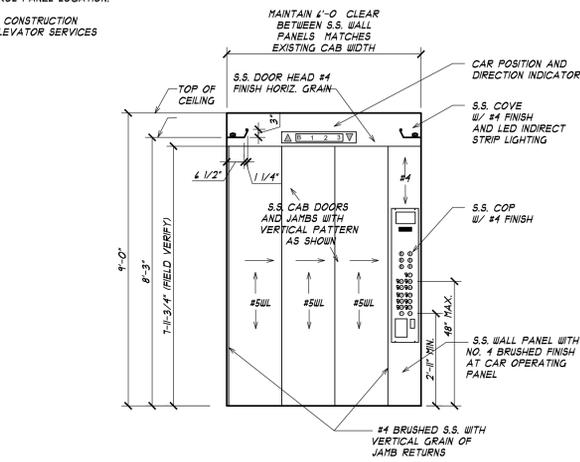
1
A7

NOTES:
 1. SEE CAB ELEVATIONS FOR CONTROL PANEL LOCATION.
 2. VERIFY BUTTON LAYOUT WITH MSU CONSTRUCTION REPRESENTATIVE AND/OR MSU ELEVATOR SERVICES.



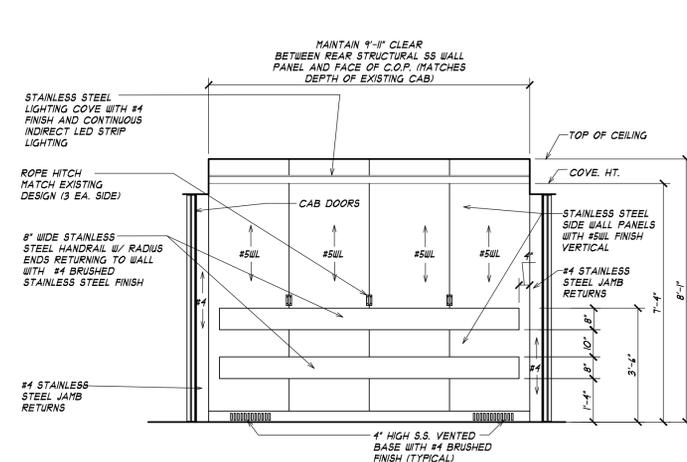
2 EAST (REAR) CAB WALL ELEVATION FREIGHT ELEV. EP4 - VET MED

2
A7



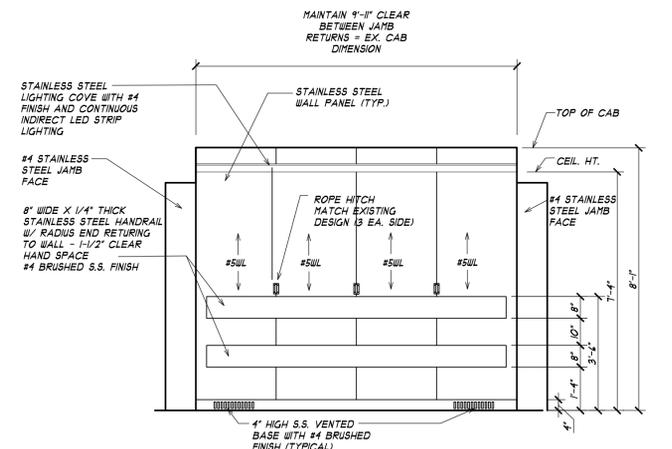
3 WEST (FRONT) CAB WALL ELEVATION FREIGHT ELEV. EP4 - VET MED

3
A7



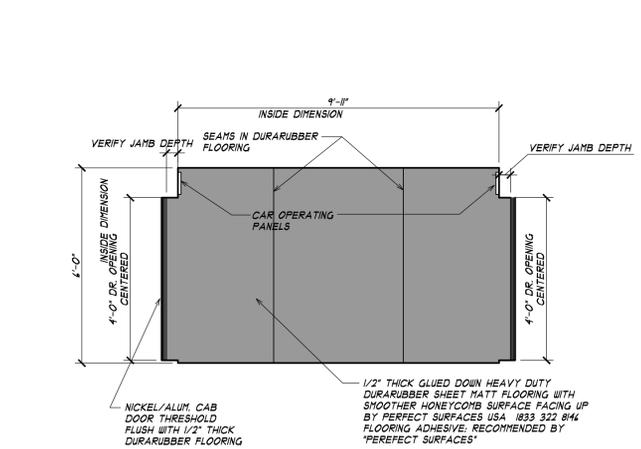
4 NORTH CAB WALL ELEVATION FREIGHT ELEVATOR - EP4 VET MED

4
A7



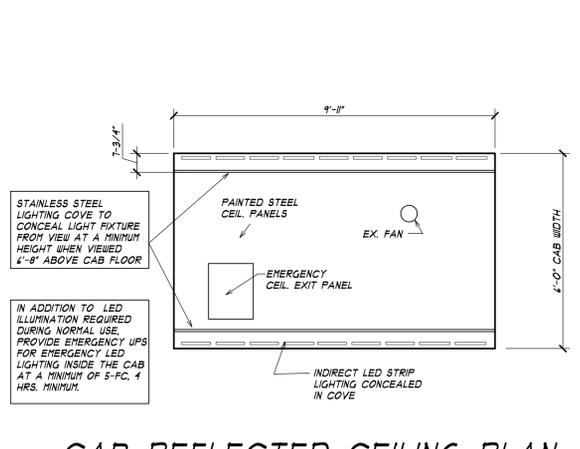
5 SOUTH CAB WALL ELEVATION FREIGHT ELEVATOR - EP4 VET MED

5
A7



6 CAB FLOOR PLAN FREIGHT ELEVATOR EP4 - VET MED

6
A7



7 CAB REFLECTED CEILING PLAN FREIGHT ELEV. EP4 - VET MED

7
A7

CAPITAL PROJ. NO. CP25044

LEAD ARCH. MECH. ELEC. CIVIL INT. DES. CONST REP. APPR. DATE
 T. Pacifico
 B. Chatland
 A. Vanderstelt
 G. Halsey
 L.A.
 T. Pacifico
 D. Launstein
 Feb. 20, 2026

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A7



ELEVATOR MODERNIZATION NOTES ELEVATORS EP3 & EP4 - VET MED

- REMOVE EXISTING ELEVATOR CAB IN ITS ENTIRETY. HOISTWAY DOORS WITH OPERATORS, AND ALL RELATED EQUIPMENT IN SHAFT EXCEPT EXISTING GUIDE RAILS, HOISTBEAM, AND STRUCTURAL SUPPORTING JACK AND BUMPERS. NEW ELEVATOR CAR TO BE SIZED TO FIT THE EXISTING HOISTWAY AND CAPACITY SPECIFIED AND INTERIOR DIMENSIONS BEING NO LESS THAN EXISTING CAR DIMENSIONS. INSTALL COMPLETE ELEVATOR CAR W/ RELATED EQUIPMENT AS GENERALLY DESCRIBED BELOW. SEE DESCRIPTIONS ON FLOOR PLANS AND CAB INTERIOR ELEVATION DRAWINGS FOR SPECIFIC FINISHES.
- INSIDE OF CAR TO INCLUDE THE FOLLOWING:
 - ADA-COMPLIANT MAIN CAR OPERATING PANEL WITH EMERGENCY TELEPHONE AND "ELITE PIT" DISPLAY UNIT, MANUFACTURED BY CE ELECTRONICS. INSTALL CARD SWIPE ACCESS AS DIRECTED BY MSJ ELEVATOR SERVICES.
 - CAR SLUNG STRUCTURE AND CAB SHELL AND RELATED COMPONENTS
 - GUIDE ROLLERS
 - NEW CAB INTERIOR FINISHED WALLS, FRONT WALL RETURNS AND HEADER ABOVE CAB DOORS.
 - NEW CAB CEILING
 - NEW CAB LED LIGHTING
 - NEW CAB FINISHED FLOORING
 - NEW NICKEL/ALUMINUM CAB THRESHOLDS
 - 6" WIDE STAINLESS STEEL CAB HANDRAILS
 - MAIN CAR OPERATING PANELS WITH FLOOR AND EMERGENCY BUTTON WITHIN ADA REACH RANGE BETWEEN 35" AND 48" ABOVE CAB FLOOR AT ELEVATOR EP4 (FREIGHT)
 - MAIN CAB CAR OPERATING PANEL AND AUXILIARY ACCESSIBLE OPERATING PANEL ON SIDE WALL RAILING AT ELEVATOR EP3 (PASSENGER)
 - CAB DOORS, OPERATORS, AND TRACKS
 - INSTALL (2) DATA LINES AND (1) PHONE LINE, FROM THE MACHINE ROOM, TERMINATED IN THE NEW ELEVATOR CONTROLLER.
 - ALL OTHER ITEMS REQUIRED FOR COMPLETE CAB REPLACEMENT
- HOISTWAY OPENINGS TO HAVE THE FOLLOWING:
 - EXISTING STAINLESS STEEL HOISTWAY DOOR FRAMES REMAIN - CLEAN AND POLISH
 - 1 1/2" X 1 1/2" X 94" 14GA. #4 BRUSHED STAINLESS STEEL CORNER GUARDS SECURED WITH REMOVABLE STAINLESS STEEL FASTENERS TO FACILITATE EASY REPLACEMENT FROM THE CORNER GUARD STORE 888-202-8792
 - CLEAN AND POLISH EXISTING HOISTWAY THRESHOLDS. CHECK EACH THRESHOLD FOR DAMAGE AND REPORT DAMAGE TO MSJ ELEVATOR SERVICES FOR EVALUATION DIRECTIONS FOR REPLACEMENT.
 - NEW #4 BRUSHED STAINLESS STEEL HOISTWAY DOORS, OPERATORS, AND TRACKS
 - NEW TACTILE ADA COMPLIANT FLOOR DESIGNATION PLATES WITH BRAILLE. MOUNT 60" A.F.F., EACH JAMB.
 - SURFACE MOUNTED HALL LANTERNS WITH POSITION INDICATORS W/ DIRECTIONAL ARROWS OVER EACH HOISTWAY DOOR OPENING WITH AUDIO ANNUNCIATORS.
 - SURFACE MOUNTED CALL STATIONS, WITH HOISTWAY ACCESS SWITCHES AT THE LOWEST AND HIGHEST PUBLIC LANDINGS.
- IN ADDITION, PROVIDE AND INSTALL THE FOLLOWING NEW EQUIPMENT:
 - SUNGS
 - PLATFORMS
 - HYDRAULIC JACK AND PVC LINER
 - SPRING CAR BUMPERS
 - ROLLER GUIDES AT RAILS
 - HOISTWAY WIRING
 - TRAVELING CABLES
 - CAR TOP INSPECTION STATIONS
 - CAR TOP LIGHTS AND RECEPTACLES
 - FIREFIGHTER'S SERVICE
 - LEVELING DEVICES
 - EMERGENCY CAR LIGHT
 - EMERGENCY POWER OPERATORS AT CONTROLLERS
 - HOISTWAY UNLOCKING DEVICES AT ALL FLOORS
 - ALL OTHER RELATED EQUIPMENT PER MSJ COMPLETE INSTALLATION CONTRACT TO HAVE PROVISIONS FOR FUTURE NEW CAR ACCESS SYSTEMS.

GENERAL NOTES

- CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND REPORT ANY DISCREPANCIES TO THE MSJ PROJECT REPRESENTATIVE.
- WHERE NEW WORK AFFECTS EXISTING CONSTRUCTION, PATCH AND PAINT AS REQUIRED TO PROVIDE AN ACCEPTABLE TRANSITION BETWEEN THE EXISTING AND NEW CONSTRUCTION. PAINT COLOR OF PATCHED AREAS SHALL MATCH EXISTING PAINT COLOR.
- CONTRACTOR SHALL INSPECT HOISTWAY WALLS AND REPAIR ANY VOIDS OR HOLES IN WALLS. ALL NEW HOLES MADE IN EXISTING HOISTWAY WALLS ARE ALSO TO BE FILLED, FULL DEPTH OF WALL. EXISTING EXPOSED LEDGES ARE TO BE BEVELED WITH SHEET METAL AT PROPER ANGLE, AS REQUIRED BY THE STATE OF MICHIGAN ELEVATOR CODE RULES.
- ALL NEW ELEVATOR WORK TO BE INSTALLED IN ACCORDANCE WITH THE LATEST EDITION OF THE STATE OF MICHIGAN ELEVATOR CODE RULES, ASME/ANS A17.1 - SAFETY CODE FOR ELEVATORS AND ESCALATORS, AND ALSO IN ACCORDANCE WITH THE AMERICANS WITH DISABILITIES ACT (ADA).
- ALL PIPES RUNNING THRU HOISTWAY WALLS SLEEVED AND FIRE CAULKED
- CONTRACTOR SHALL INSPECT HOISTWAY AND PROVIDE SHEET METAL ENCLOSURE OVER ANY EXISTING PIPES OR CONDUITS NOT RELATED TO ELEVATOR OPERATIONS.
- MACHINE ROOM NOTES:
 - REMOVE THE FOLLOWING EXISTING ELEVATOR EQUIPMENT FROM MACHINE ROOM:
 - HYDRAULIC ELEVATOR PUMPS
 - CONTROLLERS
 - EXACT LOCATION OF NEW CONTROLLER AND ALL ASSOCIATED CONTROL EQUIPMENT TO BE DETERMINED BY THE ELEVATOR CONTRACTOR IN CONSULTATION WITH MSJ ELEVATOR SERVICES. PROVIDE CLEARANCES REQUIRED BY CODE.
 - SEE "PAINTING INSTRUCTIONS" BOX.

PAINTING / FINISHING INSTRUCTIONS

- PRIOR TO PAINTING OPERATIONS, CLEAN DUST, GREASE, AND DIRT FROM ALL SURFACES.
- PRIME AND APPLY (2) COATS OF PAINT TO THE FOLLOWING SURFACES WITHIN THE HOISTWAY:
 - BUFFERS AND BUFFER STANDS COLOR: "DECK GREY"
 - PIT FLOOR AND HOISTWAY WALLS IN PIT UP TO FIRST FLOOR LINE.
 - PIT LADDER - SAFETY YELLOW
- PRIME AND APPLY (2) COATS OF PAINT TO THE FOLLOWING MACHINE ROOM SURFACES:
 - MACHINE ROOM FLOOR COLOR: "DECK GREY"
 - EXISTING BLOCK WALLS COLOR: "DETERMINED BY MSJ" (REPAINT EXISTING WALLS BEHIND EQUIP. BEING REMOVED OR REPLACED)

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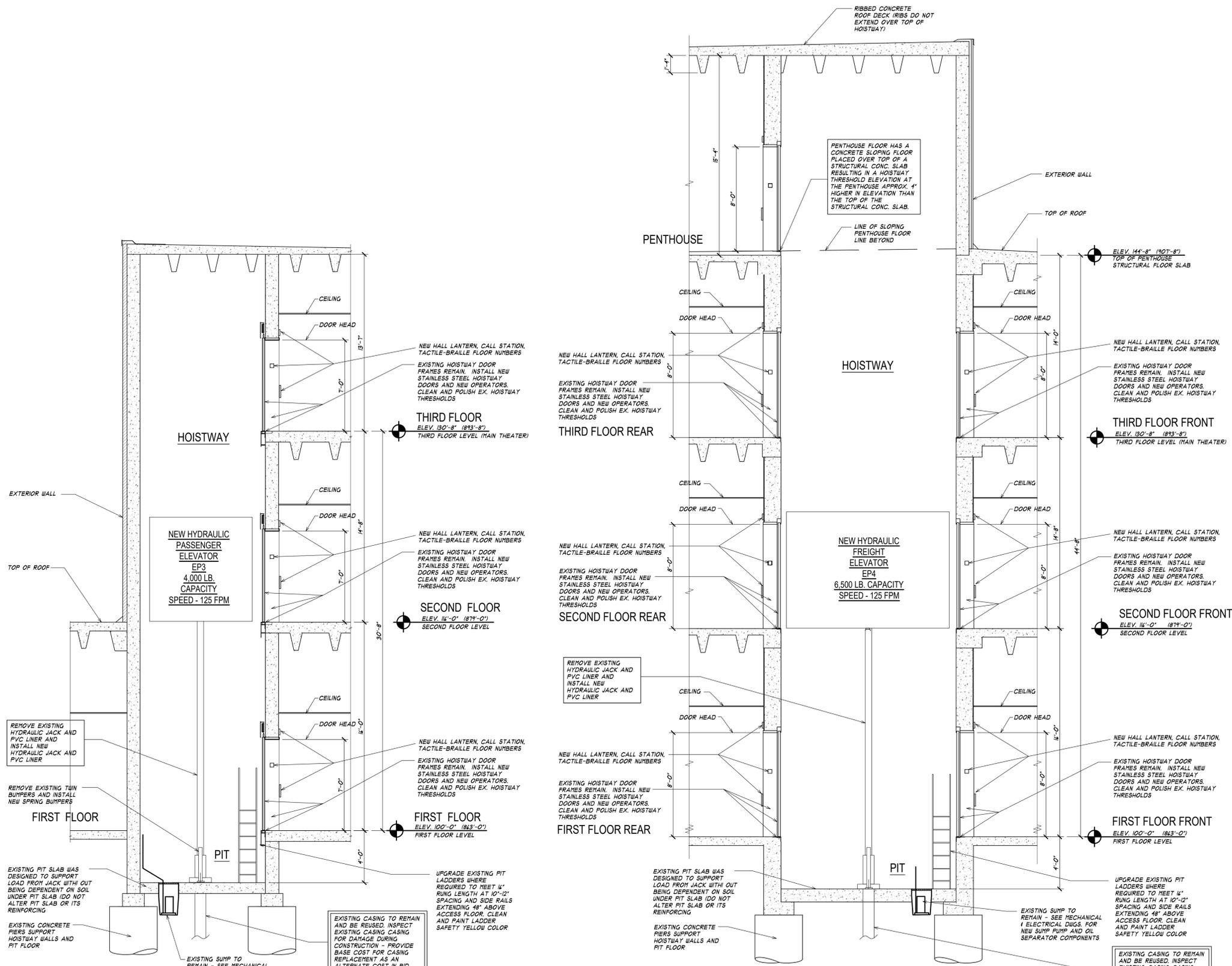
LEAD T. Pacifico
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ELEC. G. Halsey

CIVIL _____
L.A. _____
INT. DES. T. Pacifico
CONST REP D. Launstein
APPR. _____
DATE Feb. 20, 2026

SCALE AS NOTED
REVISIONS _____

BID SET _____

A8



1
A9
HOISTWAY SECTION PASSENGER
ELEVATOR - EP3 - VET MED
1/4"=1'-0"

2
A9
HOISTWAY SECTION FREIGHT
ELEVATOR EP4 - VET MED
1/4"=1'-0"

PLUMBING ABBREVIATIONS

BG	BELOW GROUND
CB	CATCH BASIN
CO	CLEAN OUT
DIA	DIAMETER
DN	DOWN
E.T.C.	ELECTRICAL TRADES CONTRACTOR
EP	ELEVATOR PIT
FD	FLOOR DRAIN
FF	FINISH FLOOR
FT	FEET
GAL	GALLON
GI	GREASE INTERCEPTOR
GPM	GALLONS PER MINUTE
HD	HEAD (FT)
HP	HORSE POWER
ID	INSIDE DIAMETER
I.E.	INVERT ELEVATION
MIN	MINIMUM
M/S	MOP SINK
M.T.C.	MECHANICAL TRADES CONTRACTOR
NTS	NOT TO SCALE
OS	OIL SEPERATOR
SAN	SANITARY
SK	SINK
SP	SUMP PUMP
SQ. FT.	SQUARE FEET
TYP.	TYPICAL
V	VENT
V.F.D	VARIABLE FREQUENCY DRIVE
VTR	VENT THRU ROOF
WB	WET BULB
WS	WASTE STACK
X-CW	EXIST. CW PIPING
ITEM	EXISTING
EXISTING	EXISTING

GENERAL PLUMBING NOTES

- ALL PLUMBING WORK SHALL CONFORM TO MICHIGAN PLUMBING CODE, LATEST APPLICABLE EDITION, AND ALL APPLICABLE LOCAL CODES.
- INSTALL ALL EQUIPMENT, MATERIALS, AND ACCESSORIES PER MANUFACTURERS WRITTEN INSTRUCTIONS.
- ALL PIPE SIZES SHOWN ARE SERVICE SIZE. SIZE SLEEVES FOR 1" CLEAR SPACE BETWEEN PIPE AND SLEEVE FOR INSTALLATION OF MECHANICAL SEAL.
- CONTRACTOR TO VERIFY LOCATIONS OF EXISTING UNDERGROUND UTILITIES BEFORE BEGINNING WORK.
- CONTRACTOR SHALL DEMOLISH & REMOVE EXISTING PIPING, FITTINGS, & EQUIPMENT AS REQUIRED FOR NEW INSTALLATIONS. VALVE & CAP PIPING TO REMAIN.
- FIELD VERIFY LOCATIONS OF EXISTING PIPING THAT MAY CONFLICT WITH NEW CONSTRUCTION AND RELOCATE AS NEEDED.
- NOTIFY OWNER OF ANY PIPING DEMOLITION THAT MAY AFFECT NORMAL OPERATION OF OTHER AREAS.
- MECHANICAL SEALS REQUIRED FOR BELOW GRADE WALL PENETRATIONS. ALL WALL AND SLAB PENETRATIONS OF MASONRY OR CONCRETE CONSTRUCTION SHALL BE SLEEVED.
- 2% SLOPE FOR ALL SANITARY PIPING 2-1/2" OR LESS IN DIAMETER. 1% SLOPE FOR ALL SANITARY PIPING 3" OR MORE IN DIAMETER.
- THE CONTRACTOR SHALL FIELD VERIFY THE SIZES, LOCATION, ELEVATIONS, AND DETAILS OF ALL EXISTING CONDITIONS THAT MAY AFFECT THE WORK.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE INTEGRITY OF ALL EQUIPMENT AND MATERIALS IN A "NEW" CONDITION DURING CONSTRUCTION.
- ALL WORK SHALL BE PERFORMED BY LICENSED CONTRACTORS AND SUBCONTRACTORS AS REQUIRED BY LAW.
- DESIGN AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CODES AND REGULATIONS ENFORCED BY LOCAL BUILDING OFFICIALS.
- DRAWINGS INDICATE REQUIRED SIZES AND POINTS OF TERMINATION OF PIPES AND SUGGESTED ROUTES. IT IS NOT INTENTION OF DRAWINGS TO INDICATE ALL NECESSARY OFFSETS. INSTALL WORK IN MANNER TO CONFORM TO STRUCTURE, AVOID OBSTRUCTIONS, PRESERVE HEADROOM AND KEEP OPENINGS AND PASSAGEWAYS CLEAR. DO NOT SCALE FROM DRAWINGS.
- ANY INFORMATION FOUND ON THE DRAWINGS AND NOT IN THE SPECIFICATIONS, OR FOUND IN SPECIFICATIONS AND NOT IN THE DRAWINGS, SHALL BE CONSTRUED AS TO BE INCLUDED IN BOTH THE SPECIFICATIONS AND THE DRAWINGS. ANY CONFLICT BETWEEN THE PLANS AND THE SPECIFICATIONS WILL BE INTERPRETED BY THE ARCHITECT. IN THE EVENT OF CONFLICT, FOR THE PURPOSE OF BIDDING, THE CONTRACTOR SHALL PRESUME THE MOST EXPENSIVE COMBINATION OF QUALITY AND QUANTITY OF WORK SHALL PREVAIL.
- PIPING LAYOUT IS SCHEMATIC. EXACT LOCATION OF PIPING AND EQUIPMENT SHALL BE COORDINATED WITH BUILDING STRUCTURE, EQUIPMENT FURNISHED, ARCHITECTURAL DRAWINGS AND ALL OTHER TRADES PRIOR TO INSTALLATION. ANY CONTRACTOR INSTALLING WORK WITHOUT PRIOR COORDINATION SHALL RELOCATE HIS WORK AT HIS EXPENSE TO ALLOW PROPER INSTALLATION OF ANY AND ALL TRADES WORK.
- UNLESS OTHERWISE NOTED, ALL PIPING SHALL BE CONCEALED WHEREVER POSSIBLE. PROVIDE CHROME ESCUTCHEON AT EACH PENETRATION OF A FINISHED SURFACE.
- PLUMBING UTILITY PIPING SHALL NOT BE RUN ABOVE ELECTRICAL GEAR OR IN THE SERVICE SPACE REQUIRED BY THE NATIONAL ELECTRICAL CODE.
- PROVIDE ISOLATION SEPARATORS FOR COPPER PIPING RUNNING THROUGH METAL STUDS.
- PROVIDE FIRE STOPPING AT ALL PENETRATIONS OF FIRE RATED ENCLOSURES.

PLUMBING SYMBOLS LEGEND

PLUMBING PIPING

- SAN ———— SANITARY WASTE
- SAN - - - - - SANITARY WASTE BELOW FINISH SLAB
- - V - - - - - VENT PIPING
- - - - - VENT PIPING BELOW FINISH SLAB

PLUMBING VALVES

- GATE VALVE
- GAS COCK
- CHECK VALVE
- BALANCE COCK
- CIRCUIT SETTER
- TWO-WAY CONTROL VALVE
- THREE-WAY CONTROL VALVE
- GLOBE VALVE
- BALL VALVE
- BUTTERFLY VALVE

MISCELLANEOUS NOTES

- POINT OF CONNECTION BETWEEN NEW AND EXISTING
- ◆ POINT OF EXISTING TO REMAIN AND EXISTING TO BE REMOVED
- (X) INDICATES PLAN NOTE
- ◇ INDICATES DEMOLITION NOTE
- DETAIL BUBBLE
- XX DETAIL NUMBER
- XXXX PAGE LOCATION INDICATES
- ↗ DIRECTION OF DETAIL SECTION

PLUMBING EQUIPMENT

- FLOW DIRECTION
- PIPING DROP
- PIPING RISE
- FLOOR CLEANOUT
- INLINE PIPING DROP
- INLINE PIPING RISE
- ┆ PIPING TEE
- ┆ PIPING ELBOW
- INLINE CLEANOUT
- PLUMBING TRAP
- THERMOMETER CONNECTION
- PUMP
- UNION
- PIPE ANCHOR
- PIPE GUIDE
- FLOOR DRAIN & FLOOR SINK
- BACK FLOW PREVENTER
- FLANGE END CONNECTION
- WALL HYDRANT & HOSE BIBB
- REGULAR & OVERFLOW ROOF DRAIN
- PIPE CAP
- PIPE BREAK

SUMP PUMP SCHEDULE														
TAG	MODEL	TYPE	GPM	FT. HEAD	DISCHARGE			BASIN			ELECTRICAL			REMARKS
					PIPE	TYPE	DIA	DEPTH	HP	VOLTS	PHASE	RPM		
SP-6	2443	SUBMERSIBLE	50	70	2"	EXISTING	EXISTING	EXISTING	2	208	3	3450	1, 2, 3, 4	
SP-7	1456	SUBMERSIBLE	50	25	2"	EXISTING	EXISTING	EXISTING	1/2	120	1	3450	1, 2, 3, 4	

NOTES:
 1. BASED ON WEIL
 2. PROVIDE STAINLESS STEEL SHAFT AND IMPELLER
 3. PROVIDE CONTROL PANEL W/ INTERNAL DISCONNECT & STARTER
 4. PROVIDE LEVEL CONTROL SYSTEM

OIL INTERCEPTOR SCHEDULE								
TAG	MODEL	LOCATION	OIL HOLDING CAPACITY (GALLONS)	INLET/OUTLET	DIMENSIONS			COMMENTS
					LENGTH	WIDTH	HEIGHT	
OS-2	OMC300	PENTHOUSE	156	4"	62"	32"	64"	1,2
OS-3	OMC300	UNDERGROUND	156	4"	62"	32"	64"	1,2,3

NOTES:
 1. BASED ON ZURN
 2. ELEVATOR OIL CAPACITIES PROVIDED BY ELEVATOR CONTRACTOR (ELEVATOR SERVICES)
 3. EXTENSION COLLAR FOR UNDERGROUND ACCESSWAY

SEQUENCE OF OPERATION: SUMP PUMP

BUILDING AUTOMATION SYSTEM INTERFACE:
 THE SUMP PUMP CONTROL PANEL SHALL BE MONITORED BY THE EXISTING SIEMENS BUILDING AUTOMATION SYSTEM THROUGH BACNET INTERFACE INCLUDED WITH CONTROL PANEL BY UNIT MANUFACTURER.

CONTROL POINTS:
 BAS SHALL DISPLAY THE FOLLOWING:
 1. PUMP STATUS
 2. HIGH WATER ALARM

1 SUMP PUMP SEQUENCE OF OPERATION

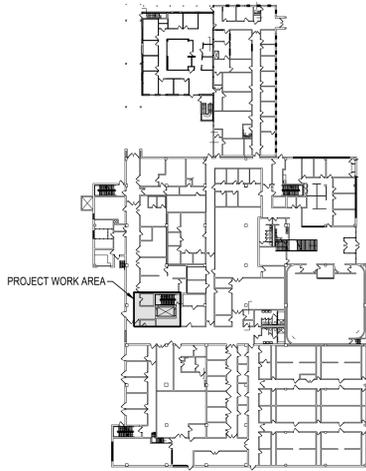
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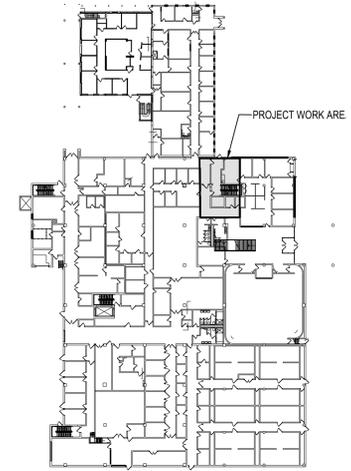
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 CP25044

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 ELEC. G. Halsey
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 L.A. _____
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 APPR. D. Launstein
 DATE Feb. 20, 2026
 SCALE AS NOTED
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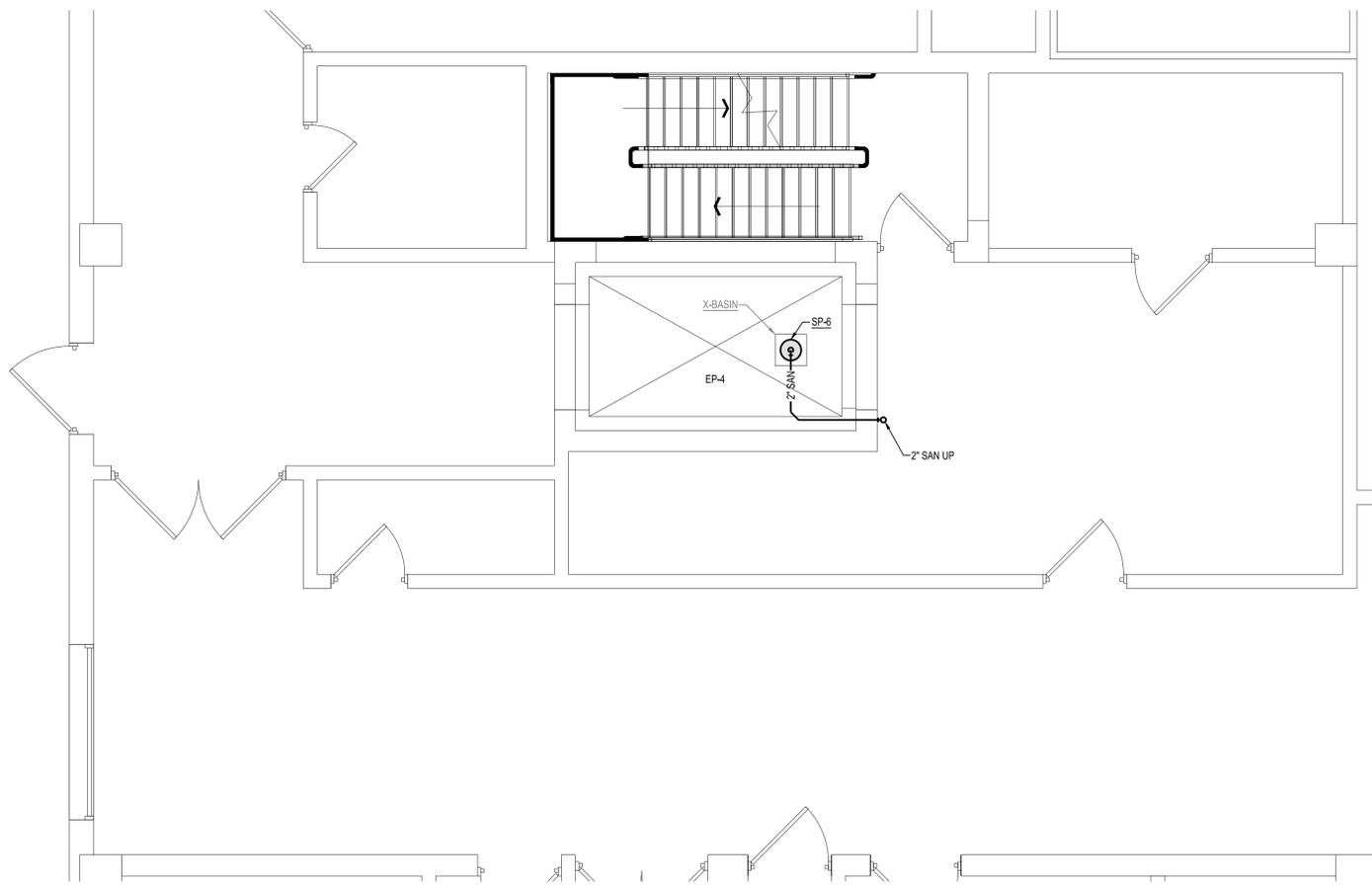
PLUMBING SYMBOLS, ABBREV. AND NOTES



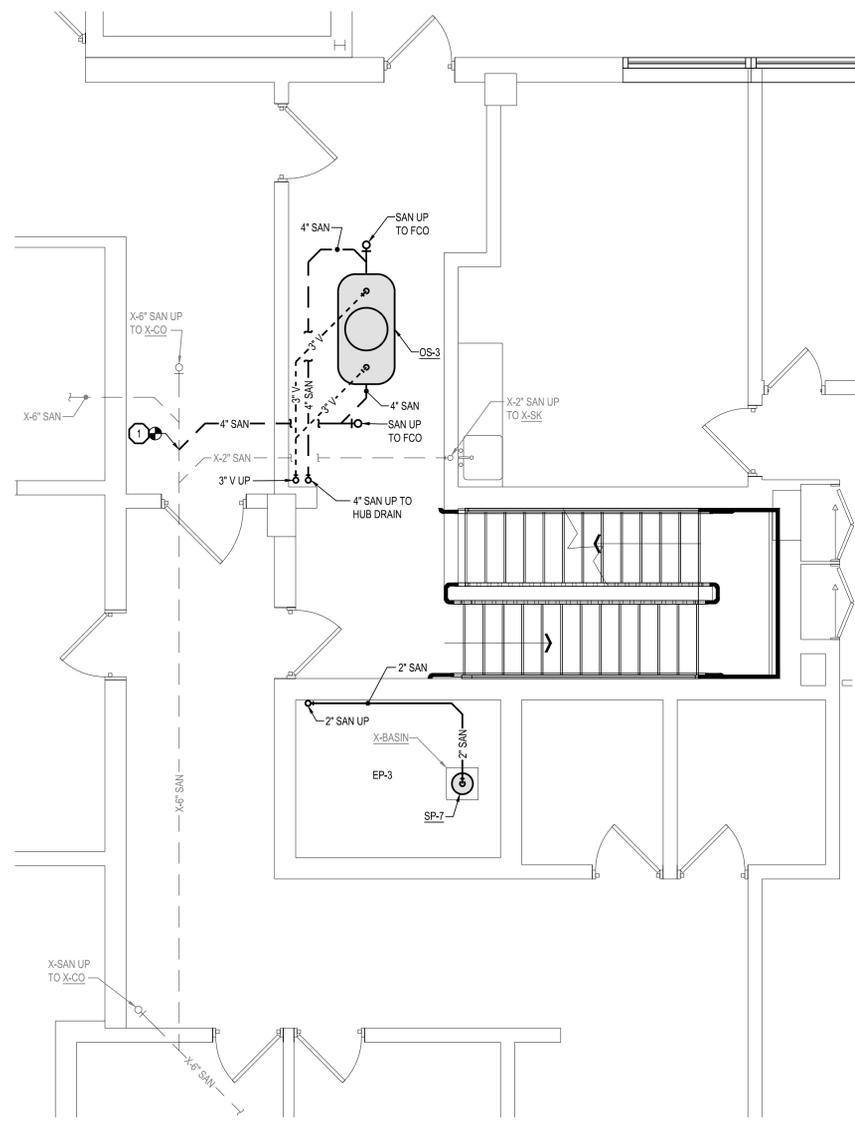
ELEVATOR EP4 KEY PLAN
NOT TO SCALE



ELEVATOR EP3 KEY PLAN
NOT TO SCALE



BELOW FLOOR ELEVATOR PIT FOUR - PLUMBING NEW
SCALE: 1/4" = 1'-0"



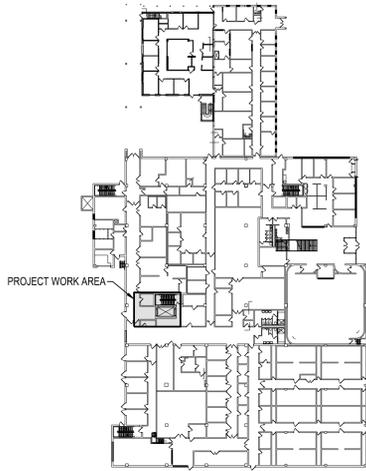
BELOW FLOOR ELEVATOR PIT THREE - PLUMBING NEW
SCALE: 1/4" = 1'-0"

- PLUMBING GENERAL NOTES**
- CONTRACTOR SHALL FIELD VERIFY ALL UNDERGROUND UTILITIES AND ASSOCIATED INVERT ELEVATIONS PRIOR TO STARTING CONSTRUCTION.
 - ALL WORK OUTSIDE OF THE ELEVATOR PIT IS TO BE COMPLETED DURING PHASE I OF CONSTRUCTION. PHASE I TO BE SCHEDULED DURING SPRING/SUMMER 2026.
- PLUMBING KEY NOTES**
- ROUTE SANITARY PIPING TO EXTENTS SHOWN. MODIFY EXISTING SANITARY PIPING AS REQUIRED FOR NEW CONNECTION.

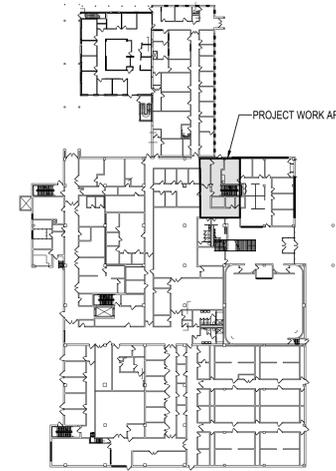
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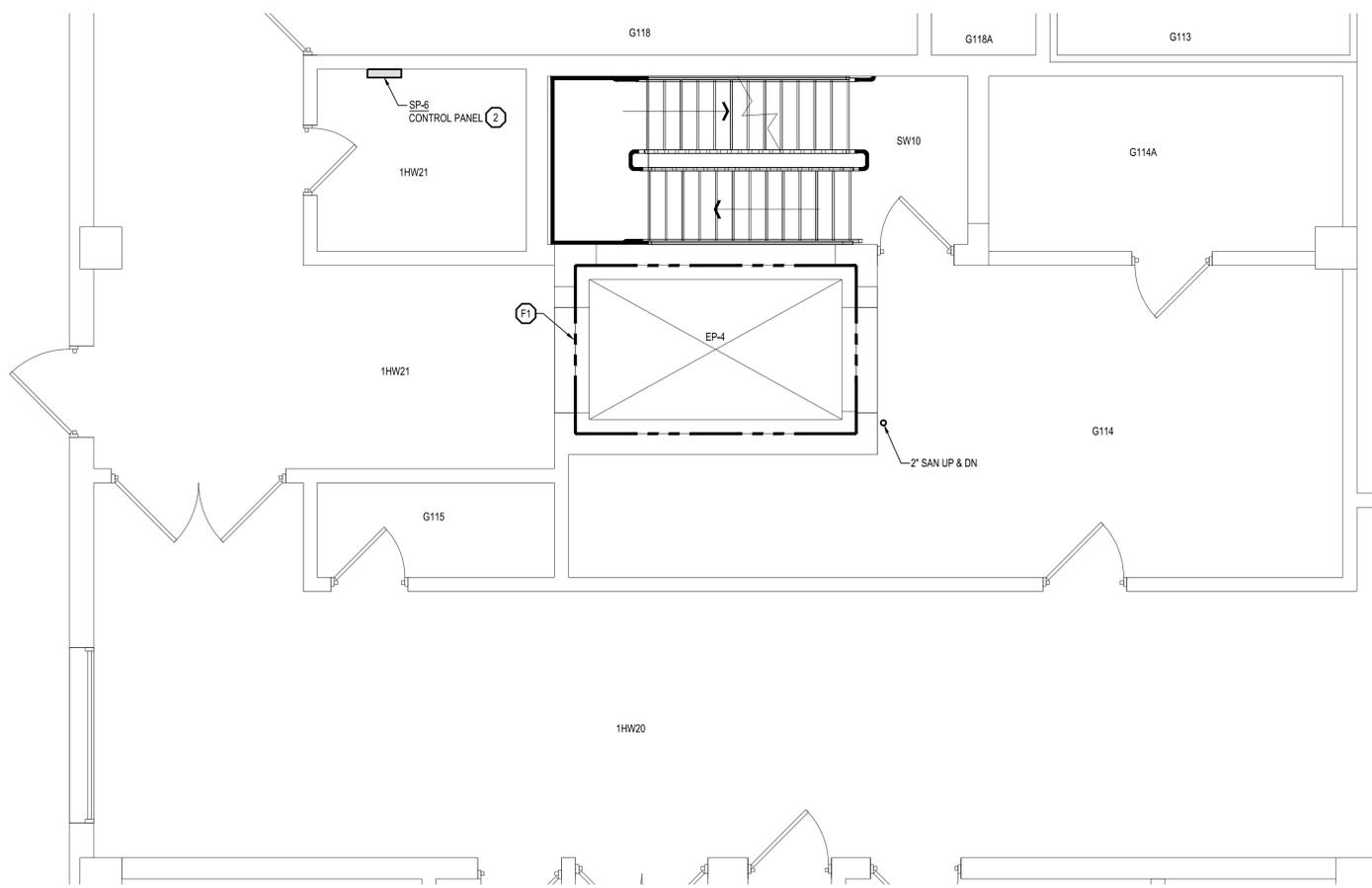
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APPR.	D. Launstein
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SCALE	AS NOTED
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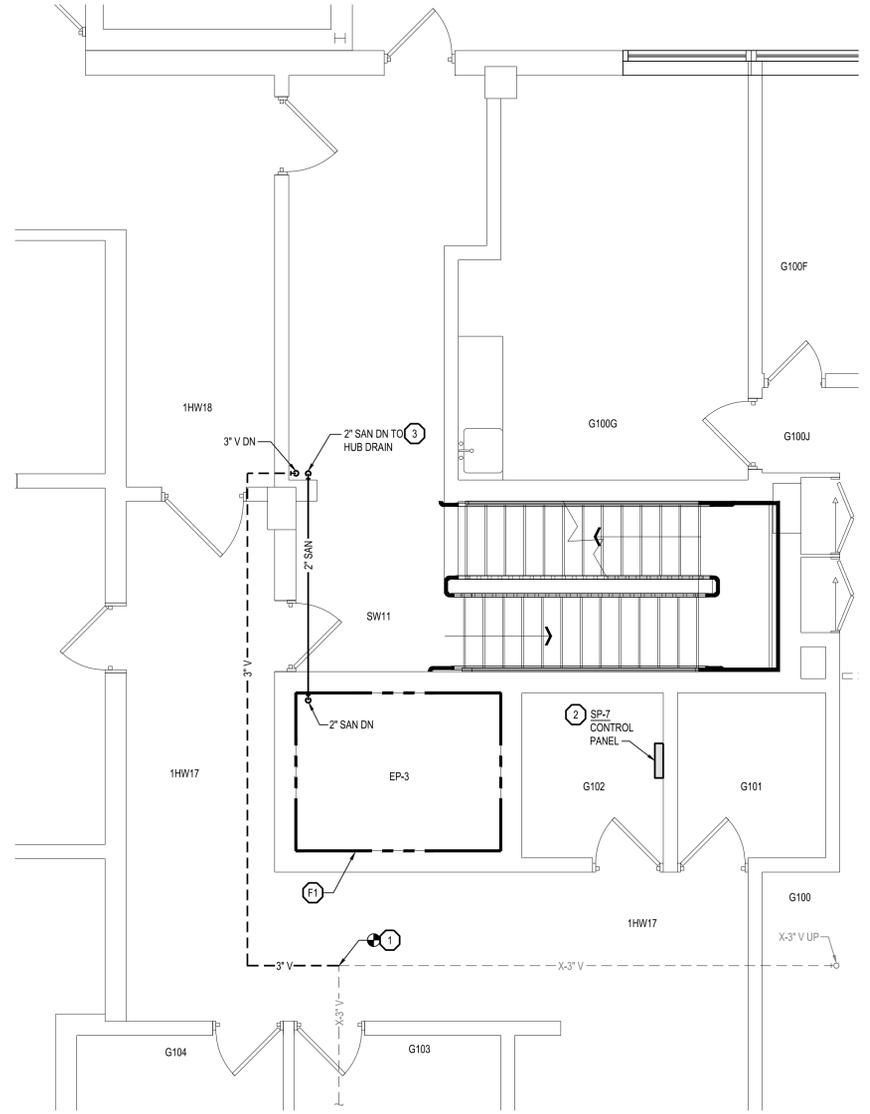
ELEVATOR EP4 KEY PLAN
NOT TO SCALE



ELEVATOR EP3 KEY PLAN
NOT TO SCALE



FIRST FLOOR ELEVATOR PIT FOUR - PLUMBING AND FIRE PROTECTION NEW
SCALE: 1/4" = 1'-0"



FIRST FLOOR ELEVATOR PIT THREE - PLUMBING AND FIRE PROTECTION NEW
SCALE: 1/4" = 1'-0"

PLUMBING GENERAL NOTES

1. ALL WORK OUTSIDE OF THE ELEVATOR PIT IS TO BE COMPLETED DURING PHASE I OF CONSTRUCTION. PHASE I TO BE SCHEDULED DURING SPRING/SUMMER 2026.

PLUMBING KEY NOTES

1. ROUTE VENT PIPING TO EXTENTS SHOWN. MODIFY EXISTING VENT PIPING AS REQUIRED FOR NEW CONNECTION.
2. CONNECT AND FULLY INTEGRATE NEW SUMP PUMP CONTROL PANEL TO EXISTING SIEMENS BUILDING AUTOMATION SYSTEM.
3. ROUTE SANITARY PIPING IN CEILING SPACE. EXTEND NEW SANITARY PIPING FROM ELEVATOR PIT DOWN TO NEW 4" HUB DRAIN LOCATED IN HALLWAY SPACE.

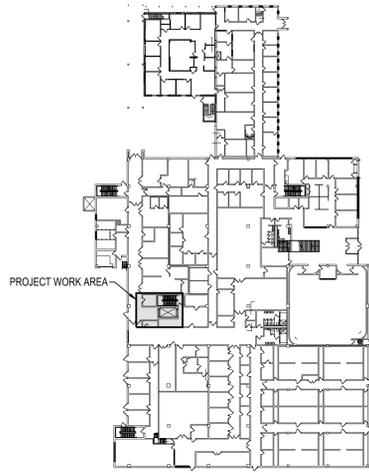
FIRE PROTECTION KEY NOTES

- F1. SPRINKLE ELEVATOR HOISTWAY AND PIT PER NFPA 13 AT LOCATION SHOWN. PROVIDE AND INSTALL SUPERVISED SHUT OFF VALVE AND ASSOCIATED ACCESSORIES AS REQUIRED PER NFPA 13.

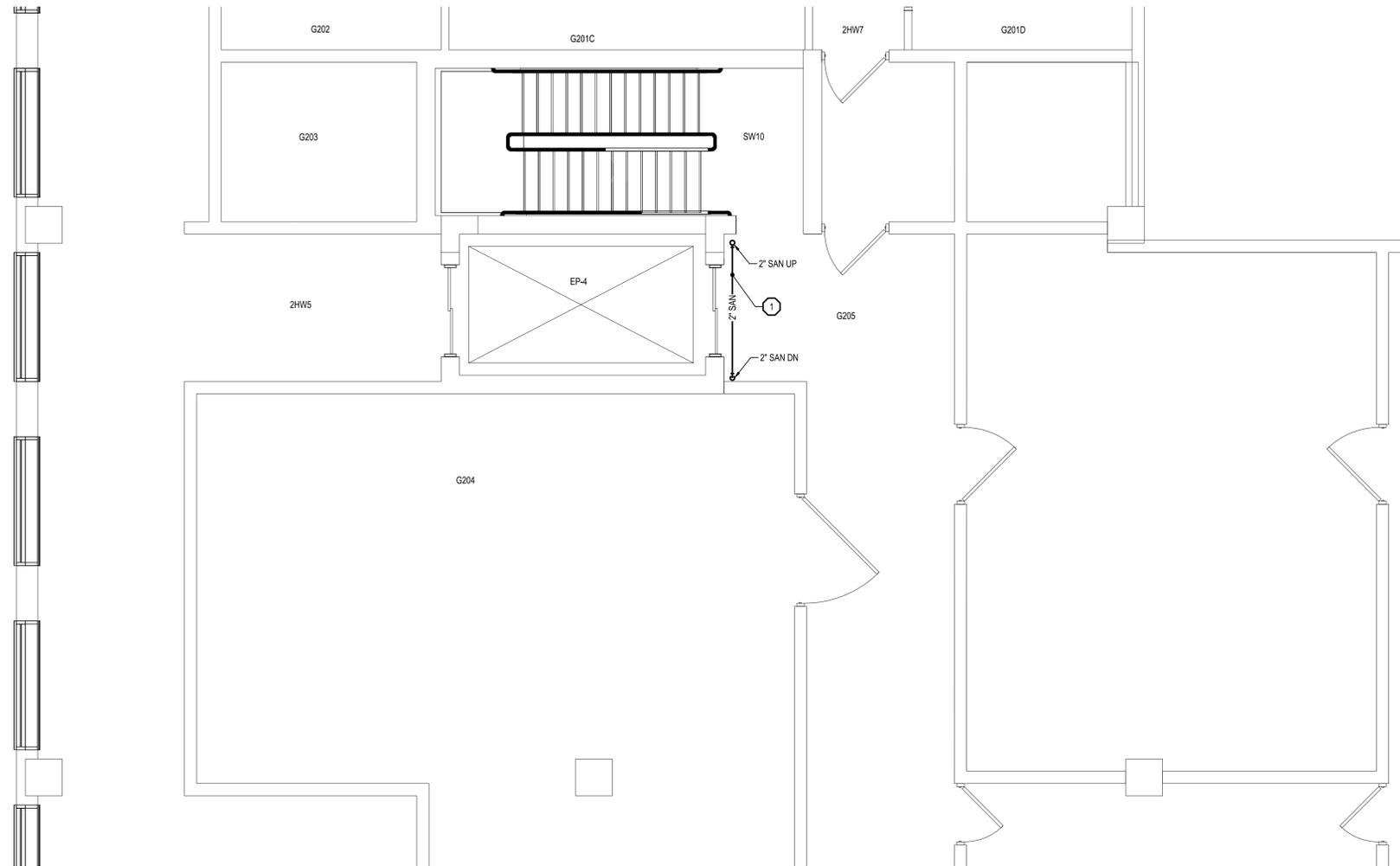
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ELEVATOR EP4 KEY PLAN
NOT TO SCALE



SECOND FLOOR ELEVATOR PIT FOUR - PLUMBING NEW
SCALE: 1/4" = 1'-0"

PLUMBING GENERAL NOTES

1. ALL WORK OUTSIDE OF THE ELEVATOR PIT IS TO BE COMPLETED DURING PHASE I OF CONSTRUCTION. PHASE I TO BE SCHEDULED DURING SPRING/SUMMER 2026.

PLUMBING KEY NOTES

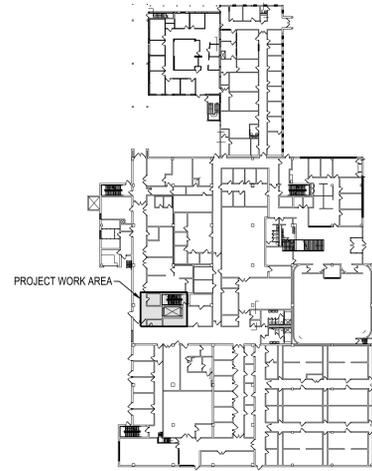
- ① ROUTE SANITARY PIPING WITHIN CEILING SPACE.

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Veterinary Medical Center
REPLACE ELEVATORS 3 AND 4

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ELEVATOR EP4 KEY PLAN
NOT TO SCALE

PLUMBING GENERAL NOTES

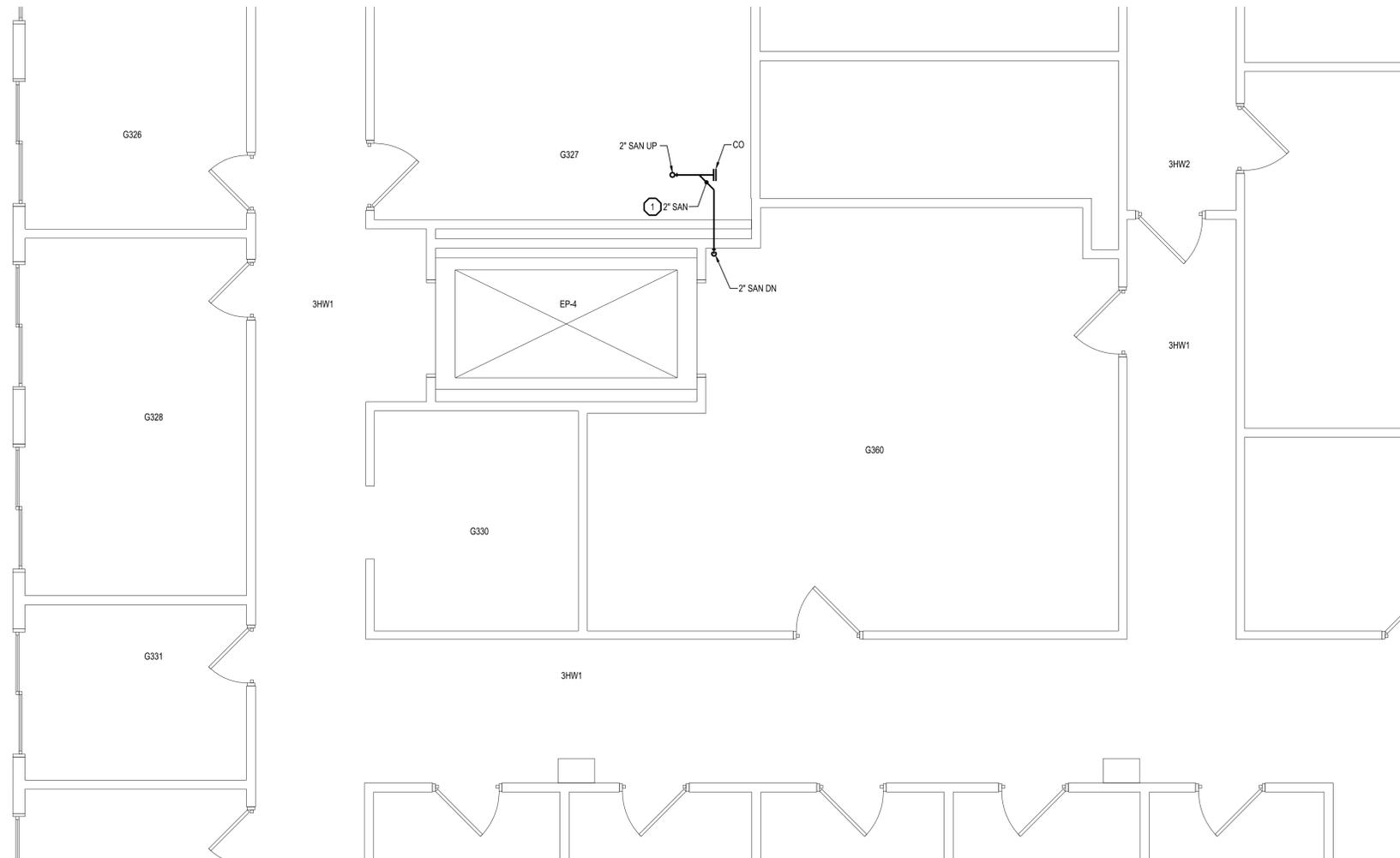
- ALL WORK OUTSIDE OF THE ELEVATOR PIT IS TO BE COMPLETED DURING PHASE I OF CONSTRUCTION. PHASE I TO BE SCHEDULED DURING SPRING/SUMMER 2026.

PLUMBING KEY NOTES

- ROUTE SANITARY PIPING WITHIN CEILING SPACE.

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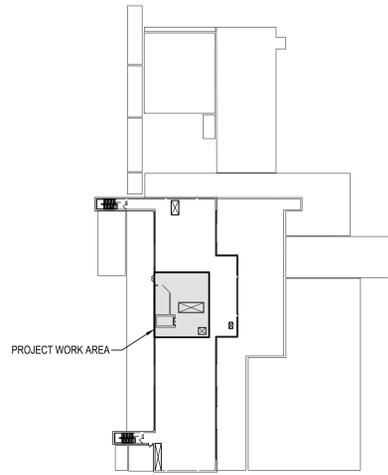


THIRD FLOOR ELEVATOR PIT FOUR - PLUMBING NEW

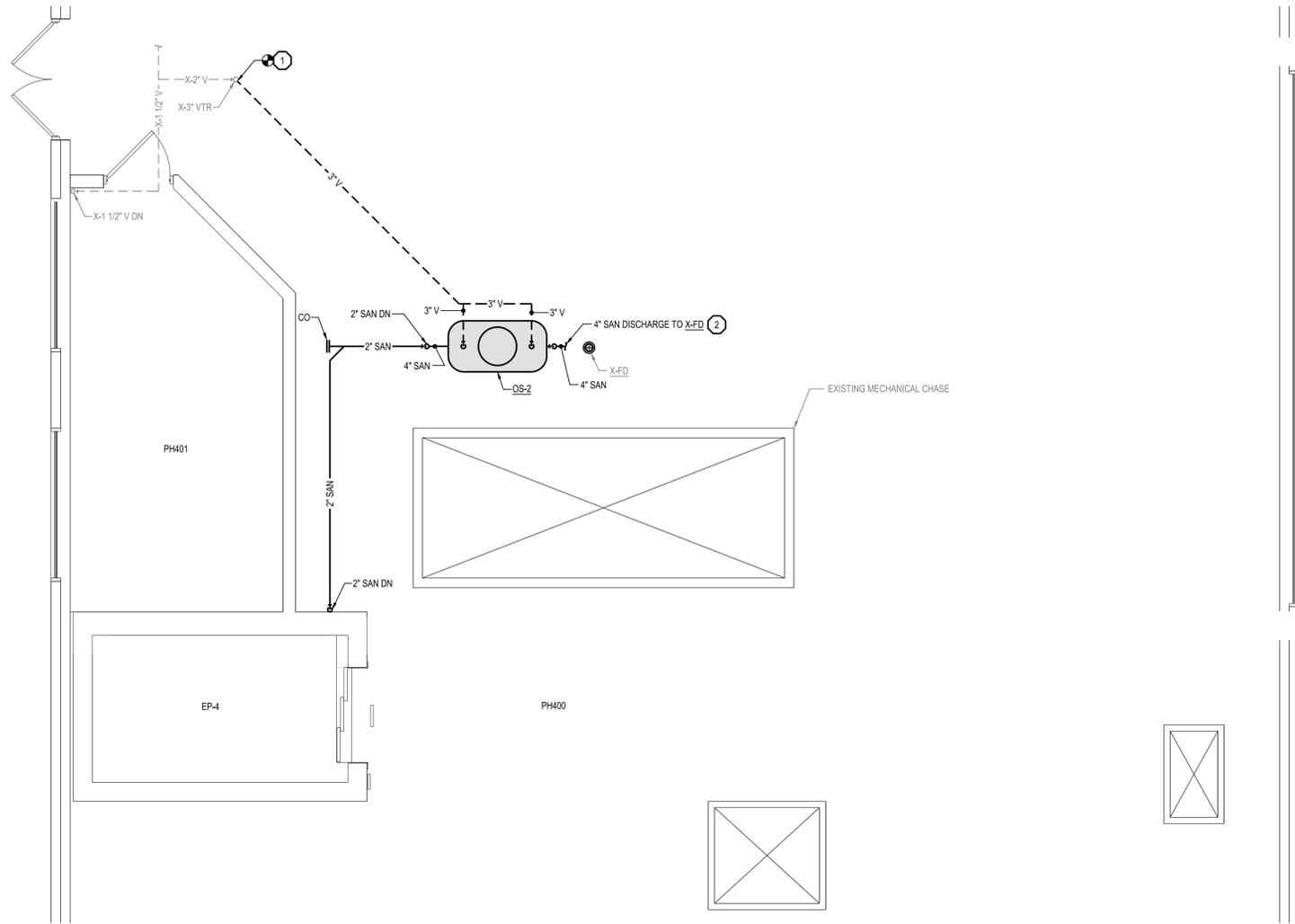


Veterinary Medical Center
REPLACE ELEVATORS 3 AND 4

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ELEVATOR EP4 KEY PLAN
NOT TO SCALE



PENTHOUSE ELEVATOR PIT FOUR - PLUMBING NEW
SCALE: 1/4" = 1'-0"

PLUMBING GENERAL NOTES

1. ALL WORK OUTSIDE OF THE ELEVATOR PIT IS TO BE COMPLETED DURING PHASE I OF CONSTRUCTION. PHASE I TO BE SCHEDULED DURING SPRING/SUMMER 2026.

PLUMBING KEY NOTES

1. ROUTE VENT PIPING TO EXTENTS SHOWN. MODIFY EXISTING VENT PIPING AS REQUIRED FOR NEW CONNECTION.
2. 4" SANITARY PIPING FROM OUTLET OF OIL INTERCEPTOR SHALL BE ROUTED TO THE FLOOR AND LEFT OPEN TO ALLOW FLOW TO BE DIRECTED TO EXISTING FLOOR DRAIN LOCATED WITHIN THE SPACE.

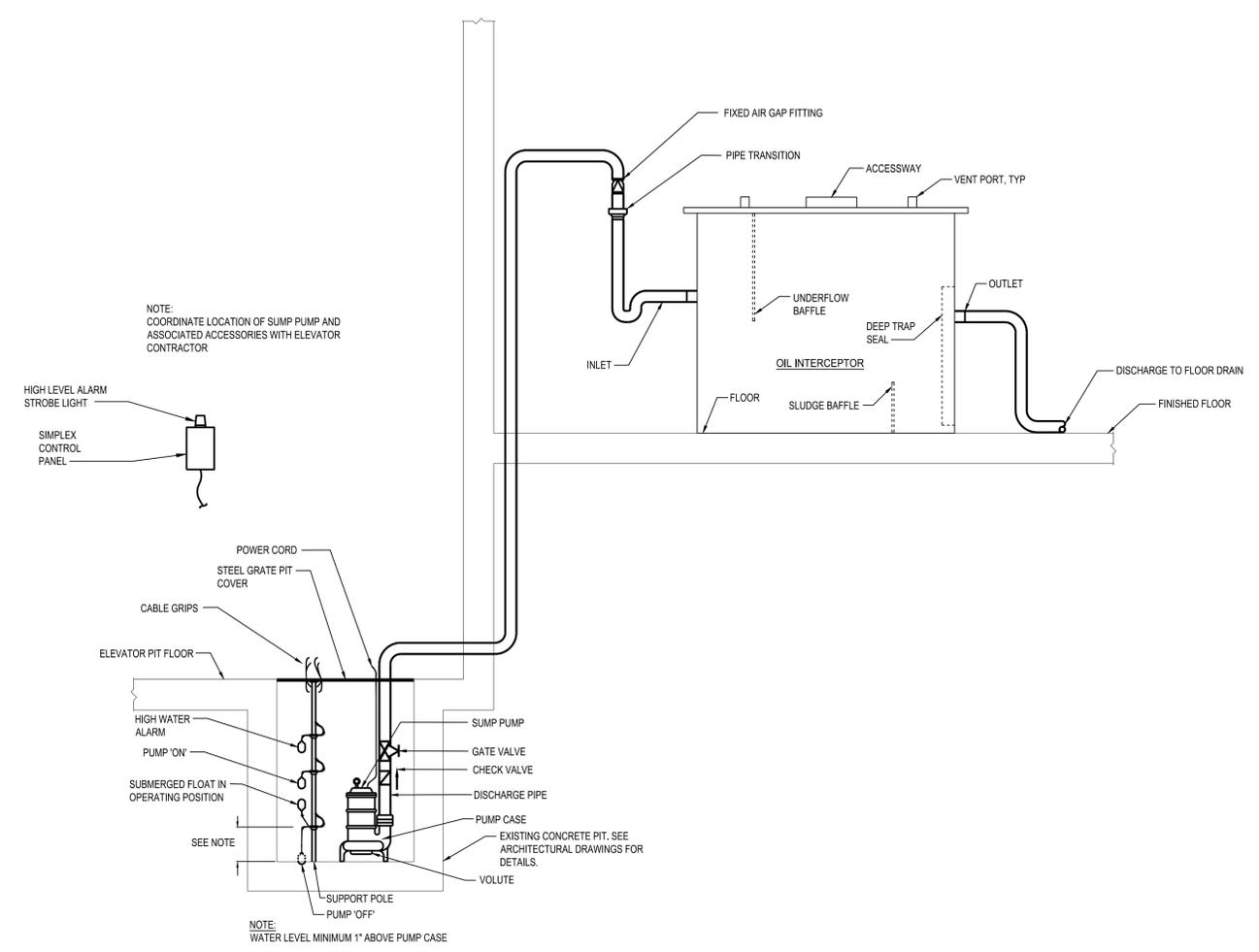
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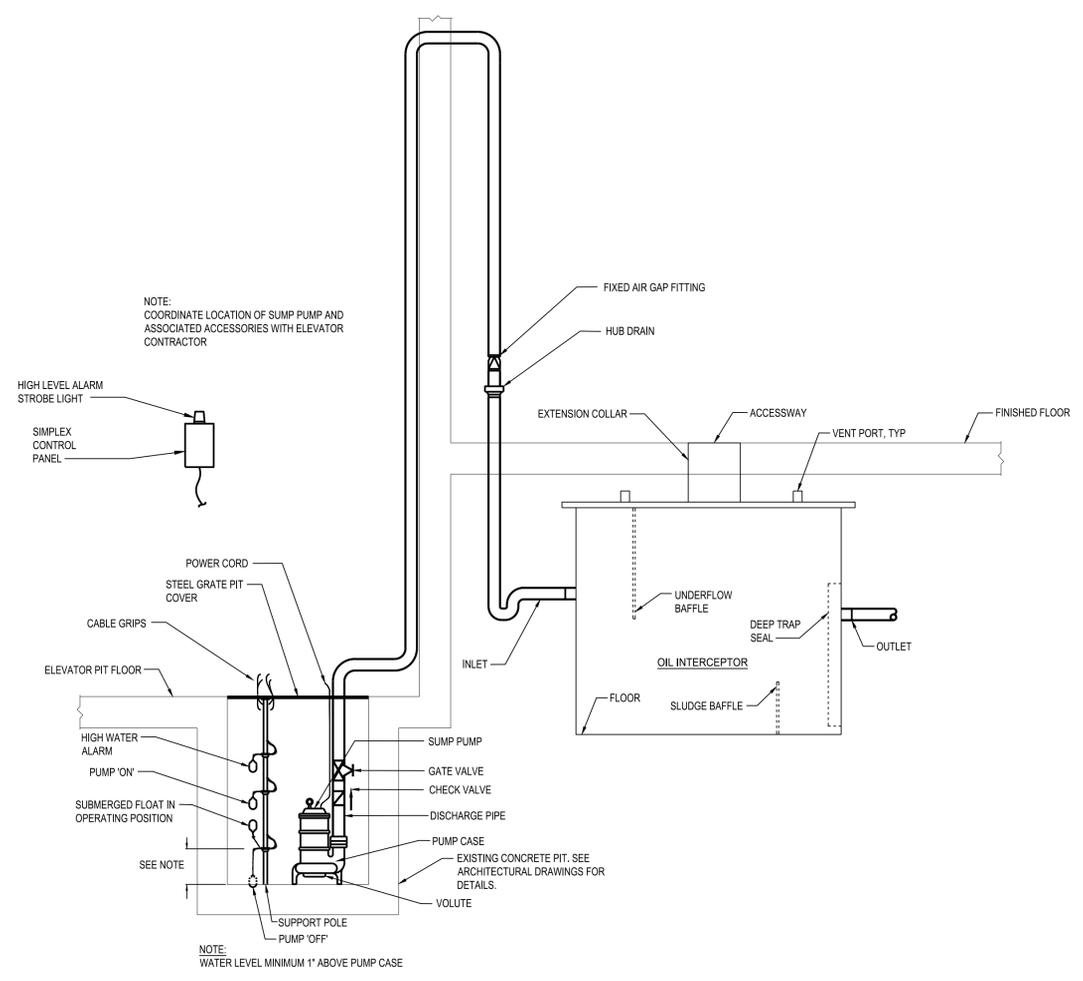
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PENTHOUSE
ELEVATOR PIT FOUR -
PLUMBING NEW



2 ELEVATOR SUMP PUMP AND ABOVE GROUND OIL INTERCEPTOR DETAIL
SCALE: NTS



1 ELEVATOR SUMP PUMP AND BELOW FLOOR OIL INTERCEPTOR DETAIL
SCALE: NTS

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MECHANICAL ABBREVIATIONS

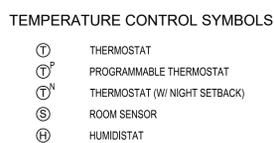
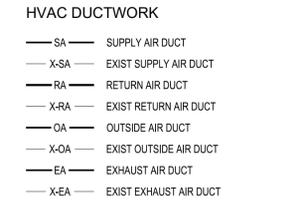
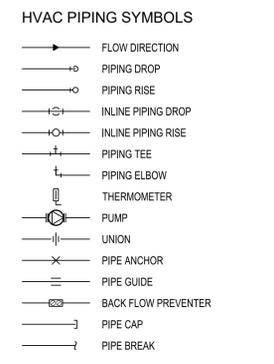
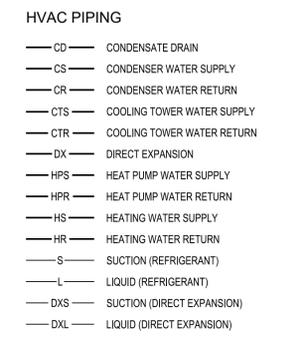
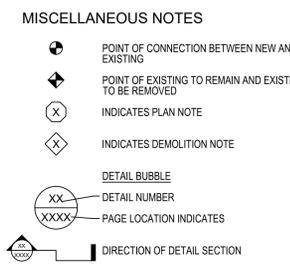
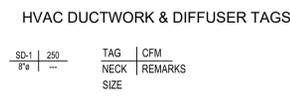
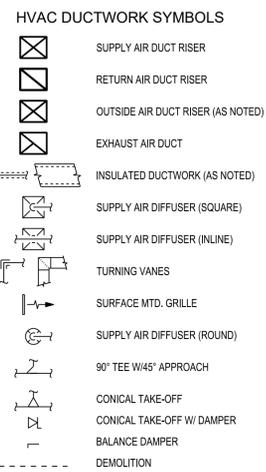
AFF	ABOVE FINISH FLOOR
AC	AIR CONDITIONER
B.A.C.	BUILDING AUTOMATION SYSTEM
CC	COOLING COIL
CFM	CUBIC FEET PER MINUTE
CU	CONDENSING UNIT
DB	DRY BULB
DIA	DIAMETER
DN	DOWN
DPR	DAMPER
EAT	ENTERING AIR TEMPERATURE
EG	EXHAUST GRILLE
EP	ELEVATOR PIT
EX	EXHAUST
FF	FINISH FLOOR
FT	FEET PER MINUTE
GR	GRILLE
HC	HEATING COIL
HD	HEAD (FT)
HP	HORSE POWER
HVAC	HEATING, VENTILATION, & AIR CONDITIONING
LAT	LEAVING AIR TEMPERATURE
MAX	MAXIMUM
MBH	BTU PER HOUR (THOUSAND)
MIN	MINIMUM
M.T.C.	MECHANICAL TRADES CONTRACTOR
NTS	NOT TO SCALE
RG	RETURN GRILLE
SD	SUPPLY DIFFUSER
SG	SUPPLY GRILLE
SH	SENSIBLE HEAT (MBH)
SQ. FT.	SQUARE FEET
TC	TOTAL COOLING (MBH)
TYP	TYPICAL
V.F.D	VARIABLE FREQUENCY DRIVE
X-SA	EXISTING ITEM (EXISTING SUPPLY AIR DUCT)
ITEM	EXISTING

GENERAL HVAC NOTES

- ALL WORK SHALL CONFORM TO MICHIGAN MECHANICAL CODE, LATEST APPLICABLE EDITION.
- INSTALL ALL EQUIPMENT, MATERIALS, AND ACCESSORIES PER MANUFACTURERS WRITTEN INSTRUCTIONS.
- NOTIFY OWNER OF ANY PIPING OR DUCTWORK DEMOLITION THAT MAY AFFECT NORMAL OPERATION OF OTHER AREAS.
- FIELD VERIFY LOCATIONS OF EXISTING PIPING THAT MAY CONFLICT WITH NEW CONSTRUCTION AND RELOCATE AS NEEDED.
- LOCATIONS OF THE THERMOSTATS TO BE VERIFIED IN FIELD.
- CONTRACTOR SHALL COORDINATE ALL WORK WITH OTHER DISCIPLINES PRIOR TO CONSTRUCTION TO AVOID CONFLICTS.
- THE CONTRACTOR SHALL FIELD VERIFY THE SIZES, LOCATION, ELEVATIONS, AND DETAILS OF ALL EXISTING CONDITIONS THAT MAY AFFECT THE WORK.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE INTEGRITY OF ALL EQUIPMENT AND MATERIALS IN A "NEW" CONDITION DURING CONSTRUCTION.
- ALL WORK SHALL BE PERFORMED BY LICENSED CONTRACTORS AND SUBCONTRACTORS AS REQUIRED BY LAW.
- ALL CONDENSATE DRAIN PIPING SET @ MIN. 1% SLOPE.
- IF THERE IS CONFLICTING INFORMATION IN THE PLANS OR SPECIFICATIONS THE MORE STRINGENT AND GREATER COST ITEM SHALL BE USED.
- PERFORM WORK IN ACCORDANCE WITH THE LATEST EDITIONS, REVISIONS, AMENDMENTS, OR SUPPLEMENTS OF APPLICABLE STATUTES, ORDINANCES, CODES OR REGULATIONS OF FEDERAL, STATE, AND LOCAL AUTHORITIES HAVING JURISDICTION IN EFFECT ON THE DATE BIDS ARE RECEIVED.

- WHERE APPROVED STANDARDS HAVE BEEN ESTABLISHED BY OSHA, UNDERWRITERS, LABORATORIES, AMERICAN CODES, ASA, ASHRAE, ARI, NEC, STATE FIRE INSURANCE REGULATION BODY, NFPA OR OTHERS, THESE STANDARDS SHALL BE FOLLOWED WHETHER OR NOT INDICATED ON THE DRAWING AND SPECIFICATIONS.
- DUCT/PIPING LAYOUT IS SCHEMATIC, EXACT LOCATION OF BUILDING STRUCTURE, EQUIPMENT FURNISHED, ARCHITECTURAL DRAWINGS, AND ALL OTHER TRADES PRIOR TO INSTALLATION. ANY CONTRACTOR INSTALLING WORK WITHOUT PRIOR COORDINATION SHALL RELOCATE HIS WORK AT HIS EXPENSE TO ALLOW PROPER INSTALLATION OF ANY AND ALL TRADES WORK.
- DUCT/PIPING SHALL NOT BE RUN ABOVE ELECTRICAL GEAR IN THE SERVICE SPACE REQUIRED BY THE NATIONAL ELECTRICAL CODE.
- ANY ADDITIONAL LOW VOLTAGE CONTROL WIRING THAT IS REQUIRED SHALL BE PROVIDED BY THE HVAC CONTRACTOR. CONTROL WIRING SHALL BE RUN IN CONDUIT IF REQUIRED BY LOCAL CODES OR THE SPECIFICATIONS. POWER SHALL BE PROVIDED BY THE ELECTRICAL CONTRACTOR.
- PROVIDE TRAP FOR CONDENSATION DRAIN LINES.
- PROVIDE VIBRATION ISOLATION AT EACH CONNECTION TO A MOTORIZED PIECE OF EQUIPMENT BY THE HVAC CONTRACTOR.
- MOUNT THERMOSTAT/SENSORS AT 48" AFF UNLESS NOTED OTHERWISE.
- THE HVAC CONTRACTOR SHALL CLOSELY COORDINATE AIR DEVICES WITH REFLECTED CEILING AND STRUCTURAL PLANS.

MECHANICAL SYMBOLS LEGEND

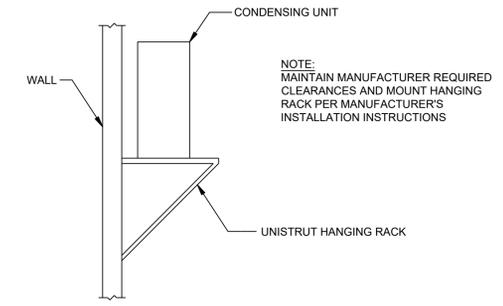


SEQUENCE OF OPERATION: SPLIT SYSTEM AIR CONDITIONING UNIT

BUILDING AUTOMATION SYSTEM INTERFACE:
EQUIPMENT CONTROLLED:
AC-10/CU-10, SPLIT SYSTEM AIR CONDITIONING UNIT SHALL BE MONITORED BY THE EXISTING SIEMENS BUILDING AUTOMATION CONTROLS SYSTEM THROUGH BACNET GATEWAY ACCESSORY PROVIDED BY AIR CONDITIONING UNIT MANUFACTURER.

THERMOSTAT:
MANUFACTURER PROVIDED WALL MOUNTED THERMOSTAT SHALL MONITOR SPACE TEMPERATURE AND SHALL CYCLE AIR CONDITIONING UNIT FAN AND STAGE COOLING AS REQUIRED TO MAINTAIN SPACE TEMPERATURE SETPOINT.

CONTROL POINTS:
BAS SHALL DISPLAY THE FOLLOWING:
1. UNIT ON/OFF
2. SPACE TEMPERATURE
3. SPACE THERMOSTAT SETPOINT
4. FAN SPEED
5. ALARM STATUS



2 SPLIT SYSTEM AIR CONDITIONING UNIT SEQUENCE OF OPERATION

1 CONDENSING UNIT SUPPORT DETAIL
SCALE: NTS

SPLIT SYSTEM AIR CONDITIONING UNIT SCHEDULE																	
TAG	LOCATIONS		INDOOR UNIT							CONDENSING UNIT						COMMENTS	
	INDOOR UNIT	COND. UNIT	TAG	MODEL	COOLING MBH	TONS	CFM	VOLTAGE	PHASE	TAG	MODEL	MBH	VOLTAGE	PHASE	MOCP		MCA
AC-10/CU-10	ELEV. MECH RM.	OUTDOOR	AC-10	PKA-AK24NL	24	2	775	208	1	CU-10	PUY-AH24NL	24	208	1	37	22	1,2,3,4,5,6,7,8

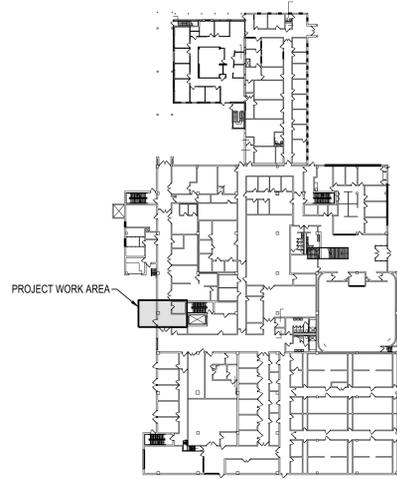
NOTES:
 1. BASED ON MITSUBISHI ELECTRIC
 2. R454-B REFRIGERANT
 3. COOLING DESIGN BASED ON 80°F DB AND 67°F WB, OUTDOOR 95°F
 4. 7-DAY PROGRAMMABLE THERMOSTAT BY MANUFACTURER
 5. UNIT TO BE INSTALLED ON CONTRACTOR PROVIDED HANGING RACK
 6. ROUTE CONDENSATE TO FLOOR DRAIN
 7. ELECTRICAL CONTRACTOR SHALL PROVIDE DISCONNECT SWITCH FOR CONDENSING UNIT
 8. INDOOR UNIT POWERED BY OUTDOOR UNIT

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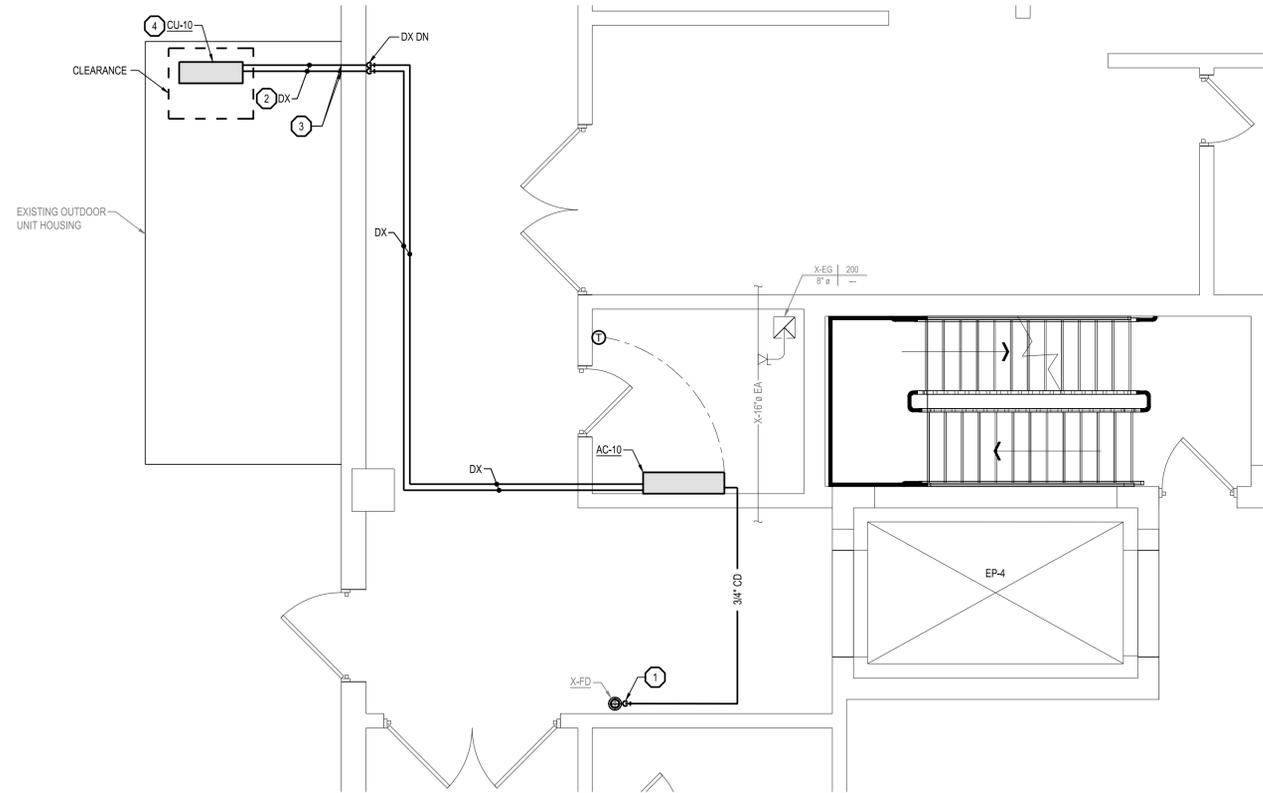
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ELEVATOR EP4 KEY PLAN
NOT TO SCALE



FIRST FLOOR ELEVATOR PIT FOUR - MECHANICAL NEW
SCALE: 1/4" = 1'-0"

MECHANICAL GENERAL NOTES

1. ALL WORK OUTSIDE OF THE ELEVATOR PIT IS TO BE COMPLETED DURING PHASE I OF CONSTRUCTION. PHASE I TO BE SCHEDULED DURING SPRING-SUMMER 2026.

MECHANICAL KEY NOTES

1. ROUTE 3/4" CONDENSATE DRAIN PIPING TO EXISTING FLOOR DRAIN. DISCHARGE WITH AIR GAP.
2. PROVIDE AND INSTALL 0.016" PEBBLE EMBOSSED JACKET ON ALL EXTERIOR REFRIGERANT PIPING.
3. CORE, SLEEVE, AND SEAL WALL AROUND REFRIGERANT PIPING.
4. INSTALL CONDENSING UNIT ON CONTRACTOR PROVIDED HANGING RACK AT LOCATION SHOWN. MAINTAIN REQUIRED MANUFACTURER CLEARANCES, AND ENSURE SERVICEABILITY ACCESS OF THE UNIT. COORDINATE FINAL LOCATION WITH MSU BUILDING SERVICES.



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BID SET

FIRST FLOOR
ELEVATOR PIT FOUR -
MECHANICAL NEW

ELECTRICAL SYMBOLS LEGEND

OUTLETS	FIXTURES	SERVICE and EQUIPMENT
<ul style="list-style-type: none"> ⊕ SINGLE RECEPTACLE (120 VOLT) ⊕ DUPLEX RECEPTACLE ⊕ EMERGENCY RECEPTACLE ⊕ DOUBLE DUPLEX RECEPTACLE ⊕ F FLUSH FLOOR BOX ⊕ S SURFACE FLOOR BOX ⊕ SPECIAL EQUIPMENT RECEPTACLE ⊕ TELEPHONE OUTLET ▽ DATA OUTLET ▽ TELEPHONE / DATA OUTLET ⊕ PP POWER POLE ⊕ JUNCTION BOX ⊕ WALL JUNCTION BOX ⊕ PULL (JUNCTION) BOX ⊕ UNDERFLOOR JUNCTION BOX ⊕ CEILING MOUNTED WIFI 	<ul style="list-style-type: none"> ⊕ LIGHT FIXTURE ⊕ STRIP FIXTURE ⊕ EMERGENCY LIGHT FIXTURE ⊕ IN-GRADE LIGHT FIXTURE ⊕ SPOTLIGHT (number of heads shown) ⊕ EXIT SIGN (face & direction as shown) ⊕ WALL MOUNT LIGHT FIXTURE ⊕ CEILING LIGHT FIXTURE ⊕ TRACK & FIXTURE ⊕ STREET TYPE POLE FIXTURE ⊕ POLE MOUNTED LIGHT FIXTURE ⊕ EXTERIOR WALL MOUNT LIGHT FIXTURE ⊕ WALLPACK LIGHT FIXTURE ⊕ SPECIAL PURPOSE LIGHT FIXTURE ⊕ HIGH BAY LIGHT FIXTURE ⊕ EMERGENCY EGRESS LIGHT FIXTURE (number of heads shown) ⊕ DOCK LIGHT FIXTURE 	<ul style="list-style-type: none"> ⊕ TRANSIENT VOLTAGE SURGE SUPPRESSION ⊕ VARIABLE FREQUENCY DRIVE ⊕ TRANSFORMER ⊕ DISCONNECT SWITCH ⊕ MAGNETIC STARTER ⊕ COMB. STARTER ⊕ PANELBOARD, SURFACE MOUNTED ⊕ PANELBOARD, FLUSH MOUNTED ⊕ WEATHERHEAD ⊕ UTILITY METER, AS REQUIRED ⊕ DIGITAL EQUIPMENT METER, AS REQUIRED ⊕ CURRENT TRANSFORMERS ⊕ GENERATOR, KW SHOWN ⊕ TELEPHONE TERMINAL BOARD ⊕ GROUND CONNECTION PER N.E.C. ⊕ WIREWAY ⊕ TRANSFER SWITCH ⊕ ENCLOSED CIRCUIT BREAKER ⊕ CAPACITOR
SWITCHES	CIRCUITRY and RACEWAYS	CONTROL
<ul style="list-style-type: none"> ⊕ SINGLE-POLE SWITCH ⊕ THREE-WAY SWITCH ⊕ FOUR-WAY SWITCH ⊕ SWITCH WITH PILOT LIGHT ⊕ THERMAL OVERLOAD SWITCH ⊕ MANUAL MOTOR SWITCH ⊕ KEY SWITCH ⊕ TIME SWITCH ⊕ DIMMER SWITCH ⊕ OCCUPANCY SENSOR SWITCH ⊕ OCCUPANCY SENSOR/DIMMER SWITCH 	<ul style="list-style-type: none"> — CONDUIT INSTALLED (by E.C.) --- CONDUIT INSTALLED (by others) → CONDUIT STUB UP ← CONDUIT STUB DOWN → 1-3 HOME RUN (with circuit numbers) → END OF CONDUIT RUN → END OF CONDUIT RUN, CAP AND STAKE → "CONDUIT RUN CONTINUES" INDICATION --- FLEXIBLE PIGTAILS/CONNECTIONS --- WM WIREMOLD AS SPECIFIED --- PM PLUGMOLD AS SPECIFIED --- BD BUS DUCT --- UFD UNDERFLOOR DUCT 	<ul style="list-style-type: none"> ⊕ THERMOSTAT ⊕ HUMIDISTAT ⊕ PC PHOTOCELL (voltage as required) ⊕ TIME CLOCK (24 hour U.O.N.) ⊕ PUSHBUTTON STATION (number of buttons indicated) ⊕ CONTROL TRANSFORMER ⊕ LIGHTING CONTACTOR ⊕ IRRIGATION CONTROLLER (120 volt xxVA connection by x/C)
MECHANICAL	SOUND and SIGNAL	FIRE ALARM
<ul style="list-style-type: none"> ⊕ SINGLE PHASE MOTOR ⊕ THREE PHASE MOTOR ⊕ RESISTANCE HEATER, KW SHOWN ⊕ PIPE TRACE HEATER ⊕ ELECTRIC UNIT HEATER ⊕ ELECTRIC WATER HEATER 	<ul style="list-style-type: none"> ⊕ SPEAKER ⊕ WALL MOUNTED SPEAKER ⊕ WALL MOUNTED SPEAKER / CLOCK COMBO ⊕ SINGLE FACE CLOCK ⊕ DUAL FACE CLOCK ⊕ VIDEO INPUT ⊕ AUDIO / VIDEO INPUT ⊕ BELL ⊕ VOLUME CONTROL ⊕ BUZZER ⊕ CHIME ⊕ TELEVISION OUTLET ⊕ MICROPHONE OUTLET ⊕ INTERCOM OUTLET ⊕ CAMERA ⊕ DOOR CONTACT ⊕ MOTION DETECTOR ⊕ BEAM DETECTOR ⊕ KEY PAD ⊕ SECURITY SYSTEM CONTROL PANEL ⊕ CCTV CONTROL PANEL ⊕ CARD READER ⊕ STUDENT STATION ⊕ ADMINISTRATION STATION ⊕ TEACHER STATION ⊕ GLASS BREAK 	<ul style="list-style-type: none"> ⊕ WALL MOUNT DUAL TECHNOLOGY SENSOR ⊕ OCCUPANCY SENSOR / PHOTOCCELL ⊕ ULTRASONIC SENSOR - 360° - 2 CIRCUIT ⊕ DUAL TECHNOLOGY SENSOR - 360° - 1000 SQ FT ⊕ DUAL TECHNOLOGY SENSOR - 360° - 500 SQ FT ⊕ SWITCH STYLE OCCUPANCY SENSOR - LUTRON MODEL MS-Z101-W ⊕ POWER PACK ⊕ DIGITAL TIME SWITCH ⊕ SMOKE DETECTOR ⊕ HEAT DETECTOR ⊕ DUCT SMOKE DETECTOR ⊕ DUCT SMOKE DETECTOR ⊕ HORN ⊕ HORN & LIGHT ⊕ SPEAKER ⊕ SPEAKER & LIGHT ⊕ PULL STATION ⊕ FIRE ALARM CONTROL PANEL ⊕ ANNUNCIATOR PANEL ⊕ END OF LINE DEVICE ⊕ REMOTE INDICATING LIGHT, WALL MTD. ⊕ REMOTE INDICATING LIGHT, CLG. MTD. ⊕ MAGNETIC DOOR HOLDER ⊕ FIREFIGHTER COMMUNICATION JACK ⊕ FLOW SWITCH (furnished by FP/C) ⊕ TAMPER SWITCH (furnished by FP/C) ⊕ VISUAL ONLY UNIT ⊕ FIRE CONTROL POWER SUPPLY ⊕ MONITOR MODULE ⊕ CONTROL MODULE ⊕ CARBON MONOXIDE DETECTOR
DESIGNATIONS		
<ul style="list-style-type: none"> ⊕ DEMOLITION NOTE ⊕ PLAN NOTE ⊕ ADDENDUM NOTE 		

GENERAL ELECTRICAL NOTES

1. ALL ELECTRICAL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE (NEC), LATEST APPLICABLE EDITION.
2. THE ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR COMPLIANCE WITH MSU STANDARDS FOR CONSTRUCTION.
3. ALL ITEMS REMOVED DURING DEMOLITION ARE TO BE TURNED OVER TO MSU RECYCLING.
4. ALL WALL AND FLOOR PENETRATIONS ARE TO BE SEALED TO MAINTAIN ORIGINAL RATING.
5. ALL CONDUITS TO BE FIELD ROUTED ALONG EXISTING PIPING AND STRUCTURAL STEEL.
6. THE DIVISION 26 CONTRACTORS SHALL VISIT THE PROJECT AND DETERMINE THE EXACT EXTENT OF THE DEMOLITION WORK REQUIRED BEFORE BIDDING THE PROJECT.
7. REMOVE ALL EXISTING OBSOLETE EXPOSED CONDUIT, WIRE AND UNUSED EQUIPMENT WHERE WORK IS BEING DONE EXCEPT ITEMS NOTED OTHERWISE.
8. WHERE BUILDING SURFACES ARE DAMAGED BY THE REMOVAL OF OLD WORK, SURFACES SHALL BE PATCHED TO MATCH ADJACENT.
9. EXISTING WORK WHICH IS PRESENTLY CONCEALED AND WHICH WILL REMAIN CONCEALED AND DOES NOT INTERFERE WITH ANY NEW WORK OF ANY TRADE NEED NOT BE REMOVED. HOWEVER, ALL CONDUIT SHALL BE CAPPED BELOW FINISH SURFACE AND THEN PATCHED TO MATCH, OR AS NOTED.
10. EXISTING OPENINGS, WHICH ARE TO BE REUSED, SHALL BE MODIFIED OR ENLARGED TO SUIT THE NEW SYSTEMS AS REQUIRED. PROVIDE ALL REQUIRED CUTTING AND PATCHING.
11. IF ASBESTOS IS PRESENT, IT WILL BE REMOVED OR RENDERED HARMLESS UNDER SEPARATE CONTRACT BY THE OWNER.
12. THE DIVISION 26 CONTRACTOR SHALL BE RESPONSIBLE FOR PATCHING THE EXISTING WALLS TO MATCH THE ADJACENT SURFACES BEHIND ALL SURFACE MOUNTED EQUIPMENT.
13. CONTRACTOR SHALL FIELD VERIFY ALL EQUIPMENT VOLTAGES AND LOADS PRIOR TO INSTALLING SERVICE TO EQUIPMENT.
14. DRAWINGS ARE BASED ON EXISTING RECORD DOCUMENT AND CASUAL FIELD OBSERVATION. REPORT ANY DISCREPANCIES TO ENGINEER FOR CLARIFICATION.

ABBREVIATIONS LEGEND

<ul style="list-style-type: none"> A AMPS AC ABOVE COUNTER ACU AIR CONDITIONING UNIT AFF ABOVE FINISHED FLOOR AHJ AUTHORITY HAVING JURISDICTION AHU- AIR HANDLING UNIT AIC AMPS INTERRUPTING CAPACITY AS ABOVE SHELF ATS AUTOMATIC TRANSFER SWITCH 	<ul style="list-style-type: none"> B- BOILER BC BELOW COUNTER BLDG BUILDING CHLR- CHILLER CND (C) CONDUIT CKT CIRCUIT CKT BKR CIRCUIT BREAKER CT- COOLING TOWER CU- CONDENSING UNIT CUH- CABINET UNIT HEATER DFU- DUCT FURNACE DISC DISCONNECT DWG DRAWING DWH- DOMESTIC WATER HEATER EBB- ELECTRIC BASEBOARD EC ELECTRICAL CONTRACTOR EF- EXHAUST FAN EM EMERGENCY EMT ELECTRICAL METALLIC TUBING EWV ELECTRIC WATER COOLER EXIST./EX. EXISTING FLA FULL LOAD AMPS FLEX FLEXIBLE CONDUIT FLR FLOOR FLUOR FLUORESCENT FSES FOOD SERVICE EQUIP. SUPPLIER F/S FIRE/SMOKE FU FURNACE 	<ul style="list-style-type: none"> GC GENERAL CONTRACTOR GFI GROUND FAULT INTERRUPTER GND GROUND H- HUMIDIFIER HID HIGH INTENSITY DISCHARGE HOA HAND-OFF-AUTO SELECTOR SWITCH HP HORSEPOWER HR HOUR HVAC HEATING/VENTILATING/AIR CONDITIONING IG ISOLATED GROUND IMC INTERMEDIATE METAL CONDUIT JB JUNCTION BOX LC LIGHT CONTROL LT LIGHT LTG LIGHTING LT FLEX LIQUID TIGHT FLEXIBLE METAL CONDUIT MAX MAXIMUM MC MECHANICAL CONTRACTOR MCC MOTOR CONTROL CENTER MIN MINIMUM MLO MAIN LUG ONLY MT MOUNT MTD MOUNTED MTG MOUNTING MUAU- MAKE-UP AIR UNIT NC NORMALLY CLOSED NIC NOT IN CONTRACT NL NIGHT LIGHT NO NORMALLY OPEN NTS NOT TO SCALE 	<ul style="list-style-type: none"> P POLE P- PUMP PB PULL BOX PNL PANEL PRV- POWER ROOF VENTILATOR PVC POLY VINYL CHLORIDE PWR POWER RECEPT RECEPTACLE RGC RIGID GALVANIZED STEEL CONDUIT RTU ROOF TOP UNIT SF- SUPPLY FAN SPEC SPECIFICATIONS SW SWITCH SWBD SWITCHBOARD TCC TEMPERATURE CONTROL CONTRACTOR TR TAMPER PROOF RECEPTACLE TS TAMPER PROOF SWITCH TYP TYPICAL UF UNDER FLOOR UH- UNIT HEATER UL UNDERWRITERS' LABORATORIES, INC. UNO UNLESS NOTED OTHERWISE V VOLTS VL VERIFY LOCATION WITH OWNER W WATTS W/ WITH W/O WITHOUT WP WEATHER PROOF XFMR TRANSFORMER
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LIGHTING FIXTURE SCHEDULE

TYPE	MANUFACTURER	CATALOG NO.	DESCRIPTION AND COMMENTS	DIMMING INFO	FIXTURE MOUNTING HEIGHT	DRIVER
LA	LITHONIA	FEM-L48-4000MLPAFL-40K-80CRI	LED VAPOR TITE FIXTURE WITH IMPACT RESISTANT POLYCARBONATE HOUSING, AND DIFFUSE POLYCARBONATE LENS.	0-10V	HORIZONTAL WALL	4118 LUMENS, 24 W, 4000K, LED
LB	LITHONIA	FEM-L48-4000MLPAFL-40K-80CRI	LED VAPOR TITE FIXTURE WITH IMPACT RESISTANT POLYCARBONATE HOUSING, AND DIFFUSE POLYCARBONATE LENS.	0-10V	VERTICAL WALL	4118 LUMENS, 24 W, 4000K, LED
LC	LITHONIA	FEM-L48-4000MLPAFL-40K-80CRI-MHKK120SS	LED VAPOR TITE FIXTURE WITH IMPACT RESISTANT POLYCARBONATE HOUSING, AND DIFFUSE POLYCARBONATE LENS.	0-10V	CEILING OR CHAIN HUNG	4118 LUMENS, 24 W, 4000K, LED
EM	SURE-LITES	SEL-M-60-R4-SD	BATTERY OPERATED EMERGENCY LIGHT WITH (2) LED LAMPS WITH ADJUSTABLE OPTICAL SEALED MAINTENANCE FREE LEAD NICKLE CADMIUM BATTERY, SOLID STATE CHARGER AND SWITCHING DEVICE, AUTOMATIC OVERLOAD DISCONNECT, AUTOMATIC BROWN OUT FEATURE, HIGH CHARGE - READY INDICATOR LIGHT, AND PUSH TO TEST SWITCH.	0-10V	MOUNT TOP AT 8'-0" UNLESS NOTED OTHERWISE	300 LUMENS, LED

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MICHIGAN STATE UNIVERSITY
Infrastructure Planning and Facilities

Veterinary Medical Center
REPLACE ELEVATORS 3 AND 4

CAPITAL PROJ. NO.
CP25044

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MECH.	A. Vanderstelt
ELEC.	G. Halsey
CIVIL	
L.A.	
INT. DES.	T. Pacifico
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SCALE	AS NOTED
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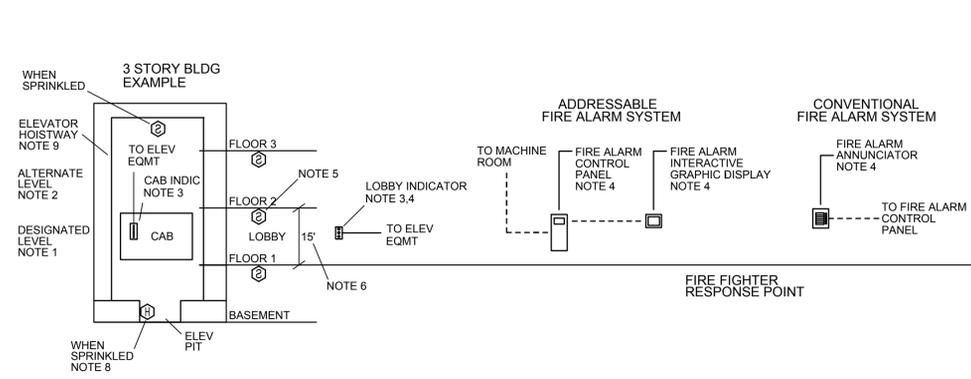
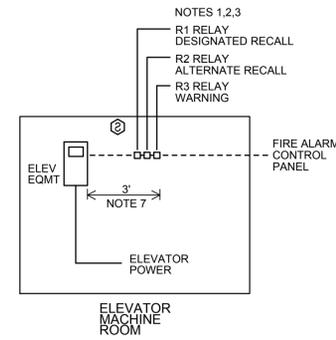
ELECTRICAL SYMBOLS
ABBREVIATIONS,
AND GENERAL NOTES

ELEVATOR RECALL - FIRE ALARM MATRIX ELEVATOR #EP3

SYSTEM INPUTS	SYSTEM OUTPUTS						
	R1 RELAY DESIGNATED RECALL	R2 RELAY ALTERNATE RECALL	R3 RELAY WARNING	ANNUNCIATOR RECALL STATUS	GENERAL ALARM	TROUBLE STATUS	SUPERVISORY STATUS
FIRST FLOOR LOBBY INITIATING DEVICE		●		●	●		
SECOND FLOOR LOBBY INITIATING DEVICE	●			●	●		
THIRD FLOOR LOBBY INITIATING DEVICE	●			●	●		
MACHINE ROOM INITIATING DEVICE	●		●	●	●		

ELEVATOR RECALL - FIRE ALARM MATRIX ELEVATOR #EP4

SYSTEM INPUTS	SYSTEM OUTPUTS						
	R1 RELAY DESIGNATED RECALL	R2 RELAY ALTERNATE RECALL	R3 RELAY WARNING	ANNUNCIATOR RECALL STATUS	GENERAL ALARM	TROUBLE STATUS	SUPERVISORY STATUS
FIRST FLOOR LOBBY INITIATING DEVICE		●		●	●		
SECOND FLOOR LOBBY INITIATING DEVICE	●			●	●		
THIRD FLOOR LOBBY INITIATING DEVICE	●			●	●		
PENTHOUSE LOBBY INITIATING DEVICE	●			●	●		
MACHINE ROOM INITIATING DEVICE	●		●	●	●		



SHEET NOTES:

- R1 RELAY - ELEVATOR RECALL TO DESIGNATED FLOOR WILL OCCUR IF SMOKE IS DETECTED IN ANY LOBBY (EXCEPT AT DESIGNATED LEVEL), HOISTWAY, OR MACHINE ROOM.
- R2 RELAY - ELEVATOR RECALL TO ALTERNATE FLOOR WILL OCCUR IF SMOKE IS DETECTED AT THE DESIGNATED FLOOR LOBBY.
- R3 RELAY WARNING FOR THE FIREFIGHTER HELMET LIGHT TO FLASH IN THE ELEVATOR CAB AND LOBBY IF SMOKE IS DETECTED IN THE ELEVATOR HOISTWAY OR MACHINE ROOM.
- THE ELEVATOR LOBBY ANNUNCIATOR, THE FIRE ALARM PANEL, AND THE FIRE ALARM ANNUNCIATOR WILL PROVIDE VISUAL INDICATION OF A RECALL. THE INDICATION WILL READ "ELEVATOR IN RECALL".
- THE LOBBY ELEVATOR SMOKE DETECTORS SHALL BE WITHIN 21" OF THE DOOR CENTERLINE.
- FOR LOBBIES WITH CEILINGS HIGHER THAN 15' THE SMOKE DETECTOR SHALL BE INSTALLED WITHIN 60" OF THE TOP OF THE ELEVATOR DOOR.
- THE ELEVATOR RECALL RELAYS SHALL BE LISTED, INSTALLED WITHIN 3' OF THE ELEVATOR EQUIPMENT, SUPERVISED, MONITORED FOR INTEGRITY, AND WILL INDICATE OPEN/SHORTED WIRES WITHIN 200 SEC. VERIFY REQUIREMENTS WITH LOCAL AHJ.
- VERIFY MOUNTING LOCATION OF WATERPROOF HEAT THERMOCOUPLE WHEN REQUIRED WITH ELEVATOR SUPPLIER.
- VERIFY WITH MSU FIRE PROTECTION IF A SMOKE EVACUATION SYSTEM IS REQUIRED.

ELECTRICAL SCOPE OF WORK:

ELEVATOR SUPPLIER:

- PROVIDE ELEVATOR EQUIPMENT WITH ELEVATOR CAB AND LOBBY VISUAL INDICATORS WITH THE ELEVATOR RECALL MESSAGES AND FLASHING FIRE FIGHTER HAT WARNING LIGHTS.
- PROVIDE CONDUIT / WIRING BETWEEN FIRE ALARM RELAYS R1 - R3 AND ELEVATOR EQUIPMENT.
- COORDINATE THE REQUIREMENTS OF THE SUPERVISION WIRING WITH THE FIRE ALARM CONTRACTOR FOR THE RELAYS R1 - R3.

ELECTRICAL CONTRACTOR OR MSU IPF ELECTRICIANS

- MODERN ADDRESSABLE FACP:
 - PROVIDE CONDUIT FROM THE FACP TO THE SMOKE DETECTOR LOCATIONS IN THE LOBBY, ELEVATOR MACHINE ROOM, AND RELAY LOCATION.
 - INSTALL THE FIRE ALARM CABLING AND PROVIDE TERMINATIONS.
 - INSTALL THE SMOKE DETECTORS AND CONNECT TO INITIATION LOOP.
 - INSTALL ELEVATOR RECALL RELAYS R1-R3.
 - IF HOISTWAY IS SPRINKLED:
 - INSTALL SMOKE DETECTOR AT THE TOP OF THE SHAFT.
 - INSTALL WATERPROOF HEAT THERMOCOUPLE SET FOR 135F IN THE ELEVATOR PIT WITHIN 18" OF 165F SPRINKLER HEAD. VERIFY LOCATION WITH MSU.
 - IF THE HOISTWAY IS NOT SPRINKLED:
 - SMOKE DETECTION IS NOT REQUIRED AT THE TOP OF THE SHAFT.
 - WATERPROOF HEAT THERMOCOUPLE MAY BE REQUIRED. VERIFY WITH MSU.

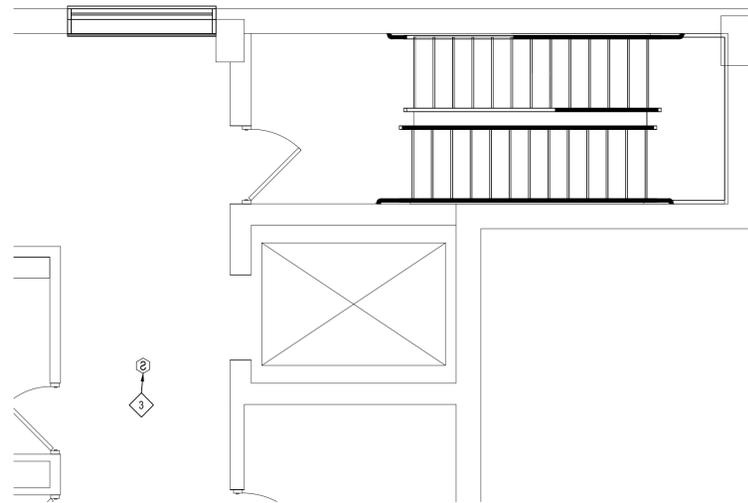
CONVENTIONAL FACP:

- PROVIDE AN EQUIVALENT SYSTEM WITH THE CONVENTIONAL FACP OR A SMALL ADDRESSABLE FACP DEDICATED FOR THE PURPOSE OF ELEVATOR RECALL MAY BE USED WITH THE CONVENTIONAL SYSTEM.

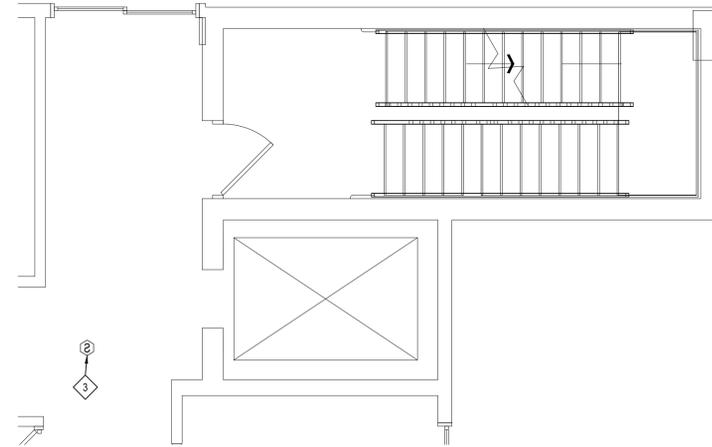
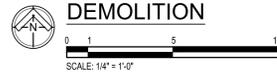
FIRE ALARM EQUIPMENT SUPPLIER:

- PROVIDE PROGRAMMING FOR NEW INITIATION DEVICES AND NOTIFICATION DEVICES
- PROVIDE PROGRAMMING FOR THE ELEVATOR RECALL RELAYS R1-R3.
- PROVIDE AN ELEVATOR RECALL FIRE ALARM BYPASS.
- PROVIDE THE FOLLOWING VISUAL INDICATIONS FOR ELEVATOR RECALL:
 - MODERN ADDRESSABLE FACP
 - FIRE ALARM CONTROL PANEL DIGITAL DISPLAY.
 - INTERACTIVE GRAPHIC DISPLAY OR LED GRAPHIC ANNUNCIATOR.
 - CONVENTIONAL FACP
 - LED GRAPHIC ANNUNCIATOR OR WINDOW ANNUNCIATOR.

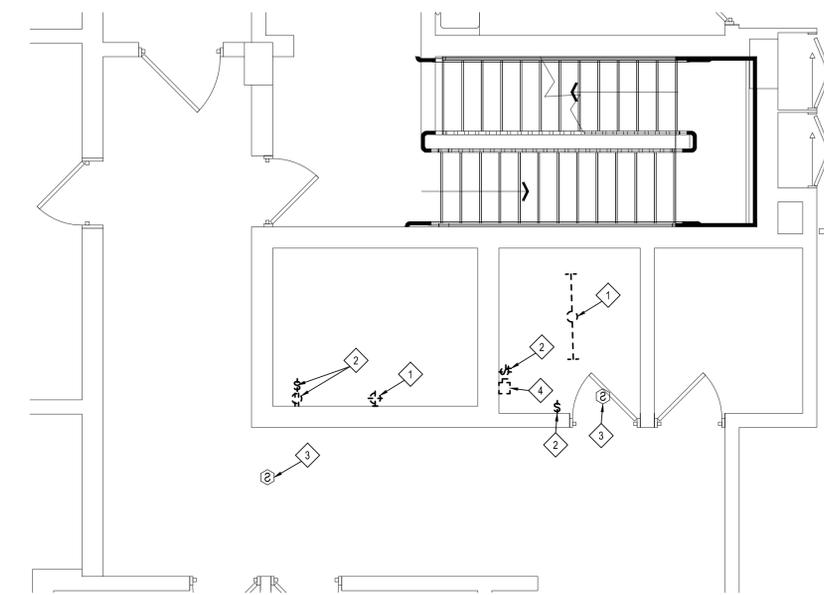
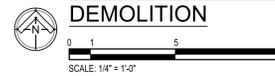




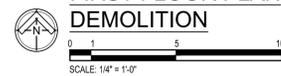
ELEVATOR EP3
ELECTRICAL PARTIAL
SECOND FLOOR PLAN
DEMOLITION



ELEVATOR EP3
ELECTRICAL PARTIAL
THIRD FLOOR PLAN
DEMOLITION



ELEVATOR EP3
ELECTRICAL PARTIAL
FIRST FLOOR PLAN
DEMOLITION

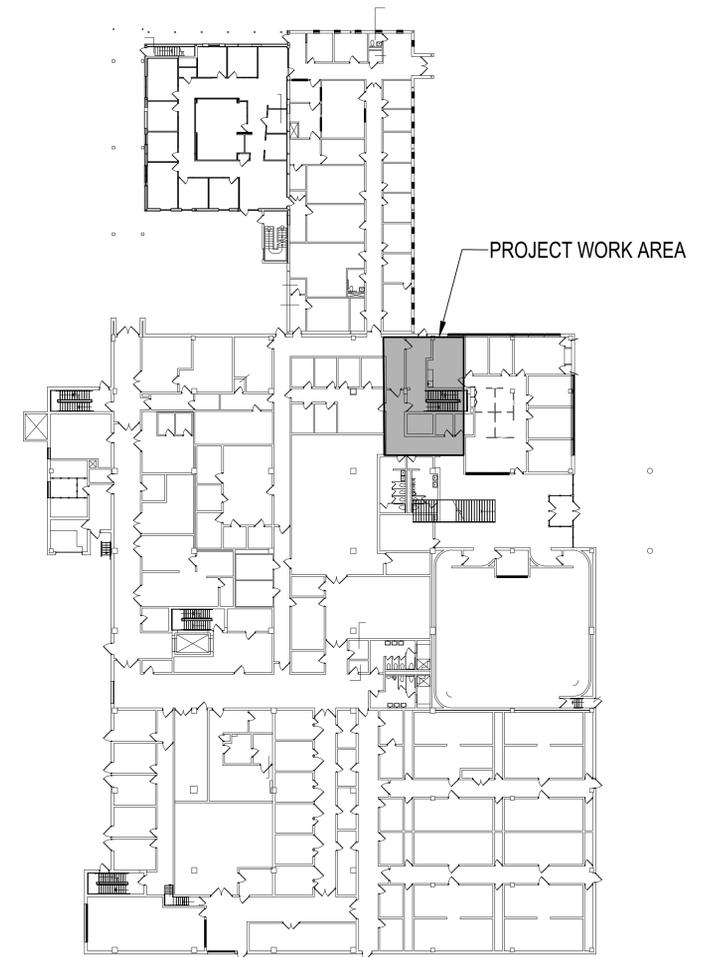


DEMOLITION NOTES

- 1 DISCONNECT & REMOVE EXISTING LIGHT FIXTURE. REMOVE ASSOCIATED CONDUIT & WIRE.
- 2 REMOVE EXISTING LIGHT FIXTURE. REMOVE ASSOCIATED CONDUIT & WIRE.
- 3 EXISTING DEVICE TO REMAIN.
- 4 REMOVE EXISTING EQUIPMENT. REMOVE ASSOCIATED CONDUIT & WIRE.
- 5 REMOVE EXISTING ELEVATOR FIRE ALARM PANEL. REMOVE ASSOCIATED CONDUIT & WIRE.
- 6 EXISTING SECURITY PANELS TO REMAIN.

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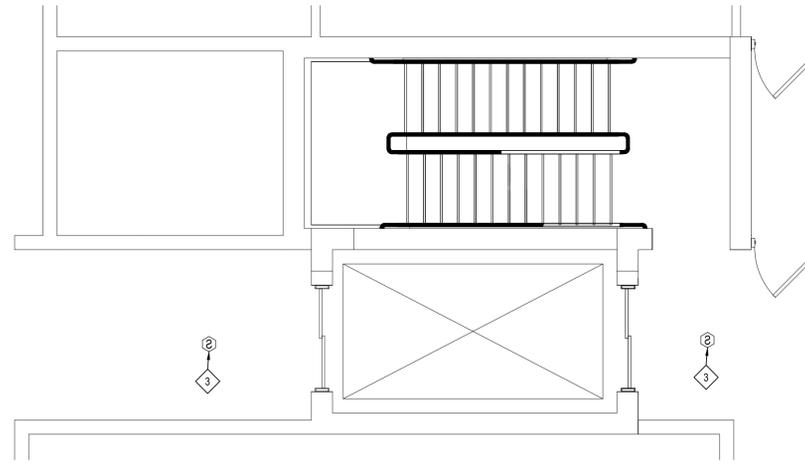


ELEVATOR EP3
KEY PLAN
NOT TO SCALE

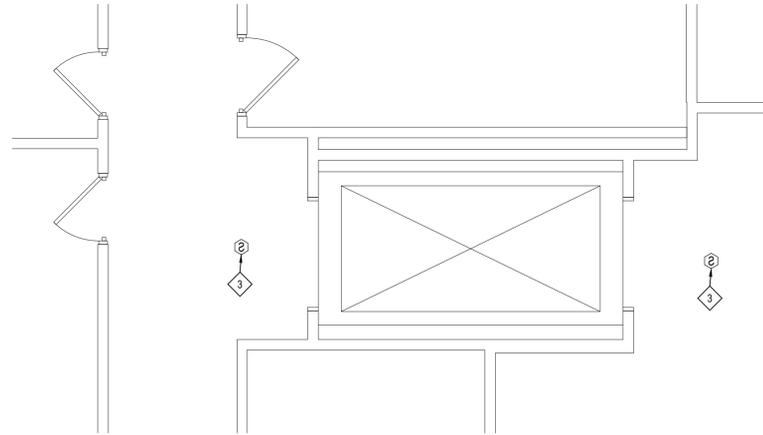
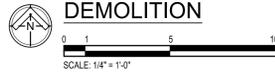
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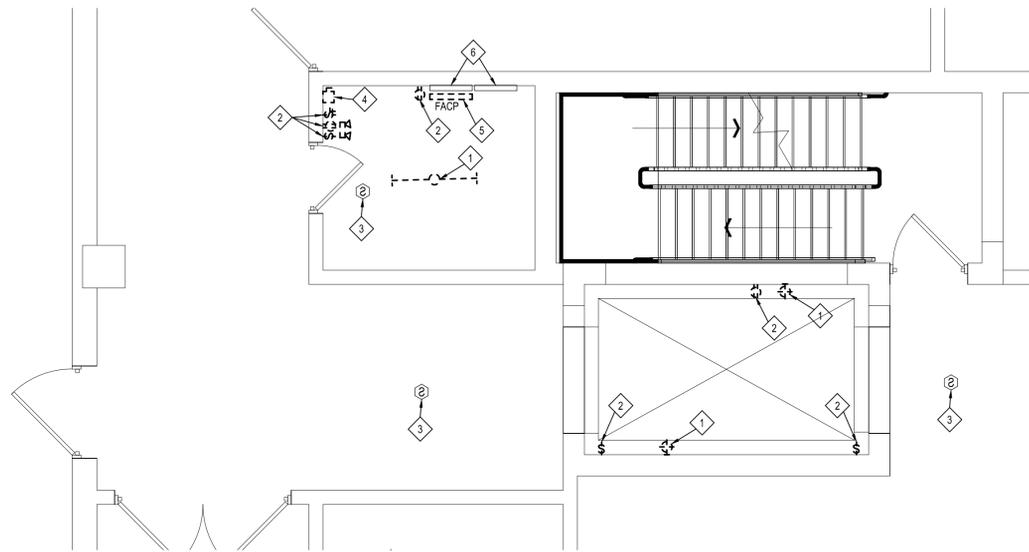
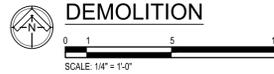
ELECTRICAL PARTIAL
FLOOR PLANS
DEMOLITION



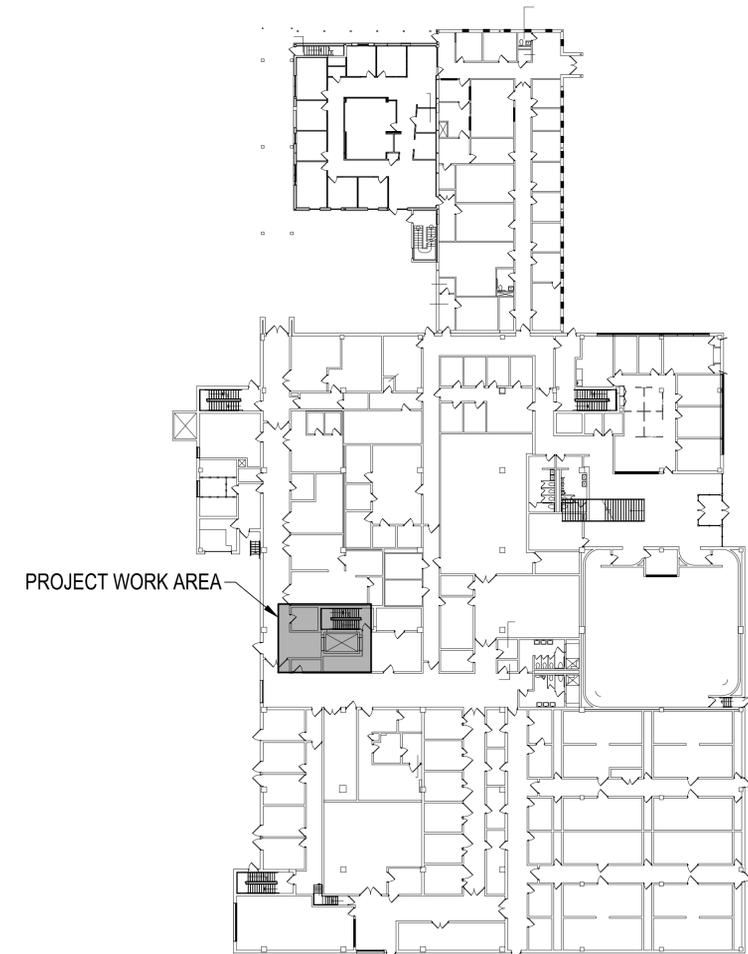
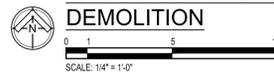
ELEVATOR EP4
ELECTRICAL PARTIAL
SECOND FLOOR PLAN
DEMOLITION



ELEVATOR EP4
ELECTRICAL PARTIAL
THIRD FLOOR PLAN
DEMOLITION



ELEVATOR EP4
ELECTRICAL PARTIAL
FIRST FLOOR PLAN
DEMOLITION



ELEVATOR EP4
KEY PLAN
NOT TO SCALE

DEMOLITION NOTES

- 1 DISCONNECT & REMOVE EXISTING LIGHT FIXTURE. REMOVE ASSOCIATED CONDUIT & WIRE.
- 2 REMOVE EXISTING LIGHT FIXTURE. REMOVE ASSOCIATED CONDUIT & WIRE.
- 3 EXISTING DEVICE TO REMAIN.
- 4 REMOVE EXISTING EQUIPMENT. REMOVE ASSOCIATED CONDUIT & WIRE.
- 5 REMOVE EXISTING ELEVATOR FIRE ALARM PANEL. REMOVE ASSOCIATED CONDUIT & WIRE.
- 6 EXISTING SECURITY PANELS TO REMAIN.


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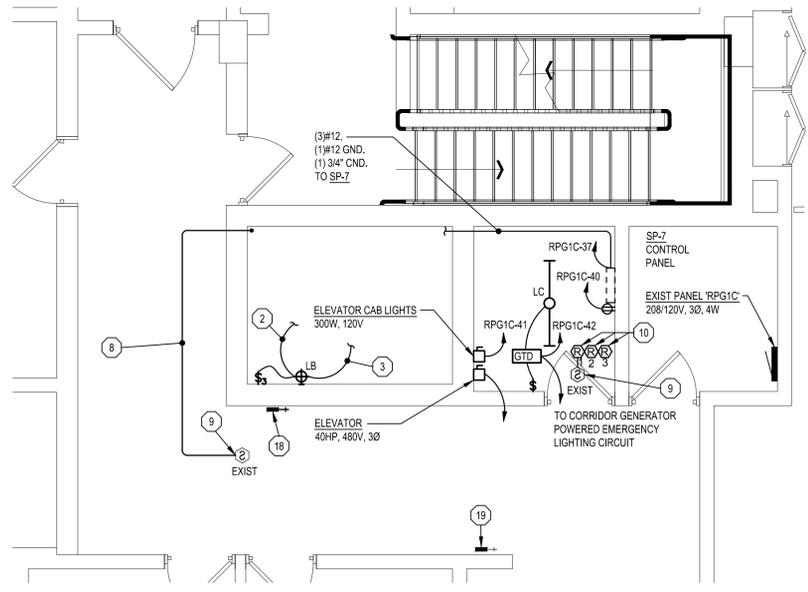
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 SCALE AS NOTED
 ISSUED _____
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ELECTRICAL
BASEMENT FLOOR
PLAN NEW

E-4

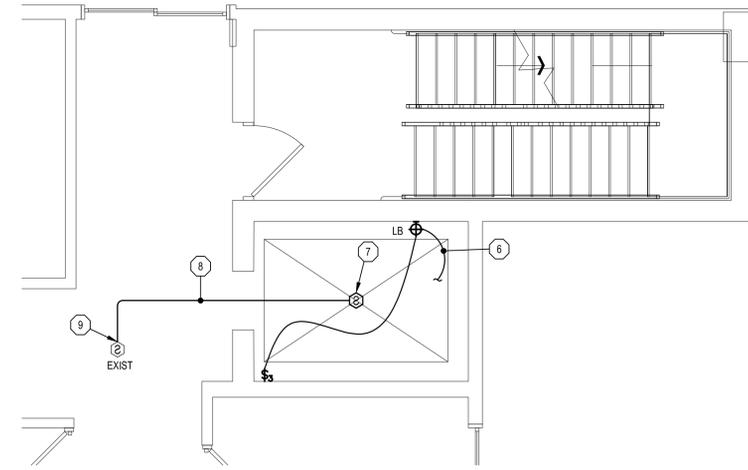
ELECTRICAL KEY NOTES

- 1 SWITCHED LIGHTING CIRCUIT UP TO TYPE 'LB' FIXTURE AT FIRST FLOOR. SEE ELECTRICAL PARTIAL FIRST FLOOR PLAN NEW THIS SHEET FOR CONTINUATION.
- 2 SWITCHED LIGHTING CIRCUIT DOWN TO TYPE 'LA' FIXTURE AT PIT LEVEL. SEE ELECTRICAL PARTIAL BASEMENT FLOOR PLAN NEW THIS SHEET FOR CONTINUATION.
- 3 SWITCHED LIGHTING CIRCUIT UP TO TYPE 'LB' FIXTURE AT SECOND FLOOR. SEE ELECTRICAL PARTIAL SECOND FLOOR PLAN NEW THIS SHEET FOR CONTINUATION.
- 4 SWITCHED LIGHTING CIRCUIT DOWN TO TYPE 'LB' FIXTURE AT FIRST FLOOR. SEE ELECTRICAL PARTIAL FIRST FLOOR PLAN NEW THIS SHEET FOR CONTINUATION.
- 5 SWITCHED LIGHTING CIRCUIT UP TO TYPE 'LB' FIXTURE AT THIRD FLOOR. SEE ELECTRICAL PARTIAL THIRD FLOOR PLAN NEW SHEET E-6 FOR CONTINUATION.
- 6 SWITCHED LIGHTING CIRCUIT DOWN TO TYPE 'LB' FIXTURE AT SECOND FLOOR. SEE ELECTRICAL PARTIAL SECOND FLOOR PLAN NEW SHEET E-5 FOR CONTINUATION.
- 7 INSTALL NEW FIRE ALARM SMOKE DETECTOR AND CONNECT TO EXISTING FIRE ALARM SYSTEM. COORDINATE FIRE ALARM WORK WITH MSU SAFETY AND SECURITY SERVICES.
- 8 NEW #18 TWISTED/SHIELDED PAIR, 3/4" CONDUIT.
- 9 CONNECT NEW #18 TWISTED SHIELDED PAIR TO EXISTING ADDRESSABLE FIRE ALARM DATA CIRCUIT.
- 10 INSTALL NEW FIRE ALARM ADDRESSABLE RELAY AND CONNECT TO EXISTING FIRE ALARM SYSTEM. COORDINATE FIRE ALARM WORK WITH MSU SAFETY AND SECURITY SERVICES.
- 11 SWITCHED LIGHTING CIRCUIT UP TO TYPE 'LB' FIXTURE AT PENTHOUSE. SEE ELECTRICAL PARTIAL BPENTHOUSE FLOOR PLAN NEW THIS SHEET FOR CONTINUATION.
- 12 SWITCHED LIGHTING CIRCUIT DOWN TO TYPE 'LA' FIXTURE AT FOURTH FLOOR. SEE ELECTRICAL PARTIAL FOURTH FLOOR PLAN NEW THIS SHEET FOR CONTINUATION.
- 13 NOT USED.
- 14 NOT USED.
- 15 COORDINATE INSTALLATION REQUIREMENTS OF SUMP PUMP ALARM PANEL WITH PLUMBING CONTRACTOR.
- 16 REMOVE EXISTING 20A/1P SPARE CIRCUIT BREAKERS IN EXISTING CIRCUITS #39 AND #41. INSTALL NEW 25A/2P CIRCUIT BREAKER IN CIRCUITS #39,41.
- 17 CONNECT NEW FIXTURE TO EXISTING SWITCHED LIGHTING CIRCUIT.
- 18 NEW TAMPER SWITCH FOR HOISTWAY SPRINKLER SHUT OFF. FIELD COORDINATE EXACT LOCATION WITH FIRE SUPPRESSION CONTRACTOR. CONNECT TO EXISTING FIRE ALARM CONTROL PANEL.
- 19 EXISTING TAMPER SWITCH FOR ELEVATOR MACHINE ROOM SPRINKLER SHUT OFF. FIELD COORDINATE EXACT LOCATION WITH FIRE SUPPRESSION CONTRACTOR. CONNECT TO EXISTING FIRE ALARM CONTROL PANEL.



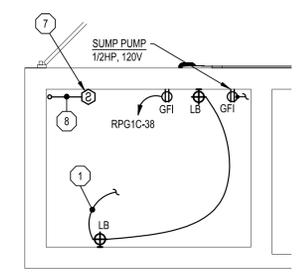
**ELEVATOR EP3
ELECTRICAL PARTIAL
FIRST FLOOR PLAN
NEW**

SCALE: 1/4" = 1'-0"



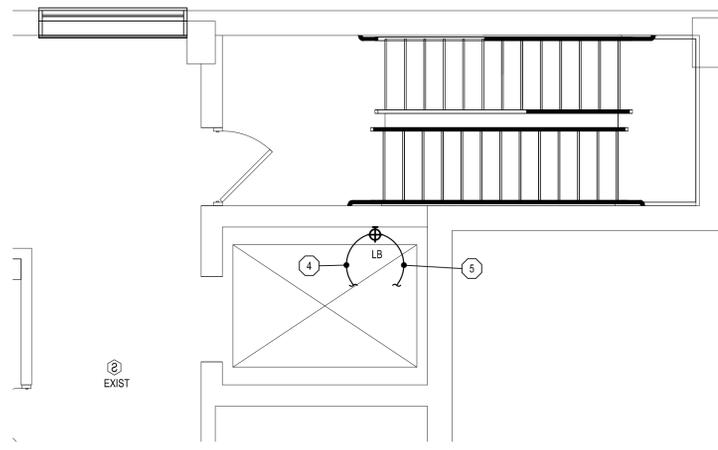
**ELEVATOR EP3
ELECTRICAL PARTIAL
THIRD FLOOR PLAN
NEW**

SCALE: 1/4" = 1'-0"



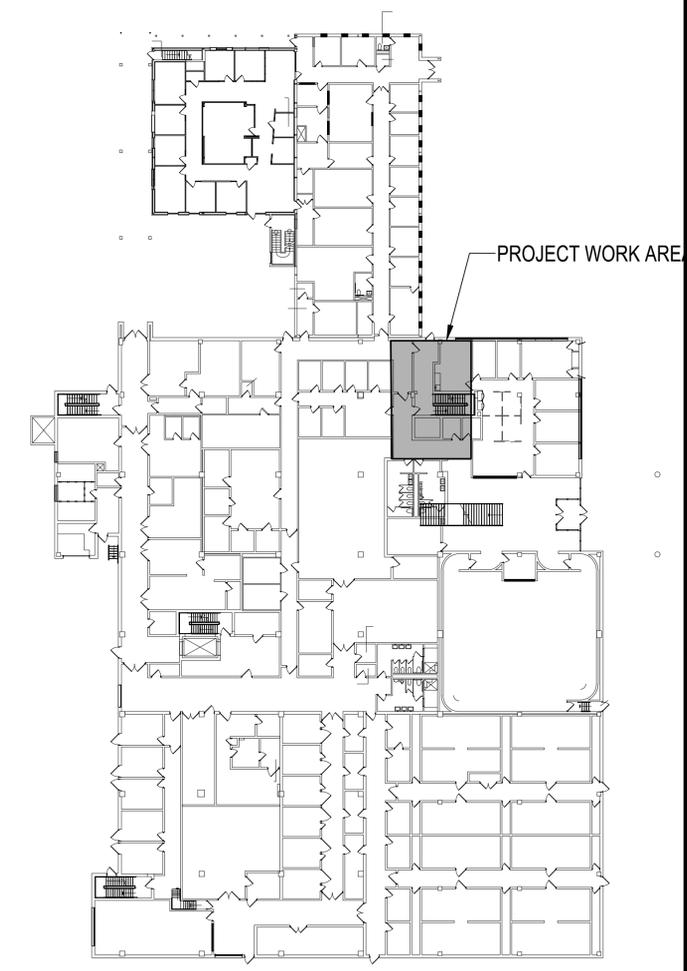
**ELEVATOR EP3
ELECTRICAL PARTIAL
PIT FLOOR PLAN
NEW**

SCALE: 1/4" = 1'-0"



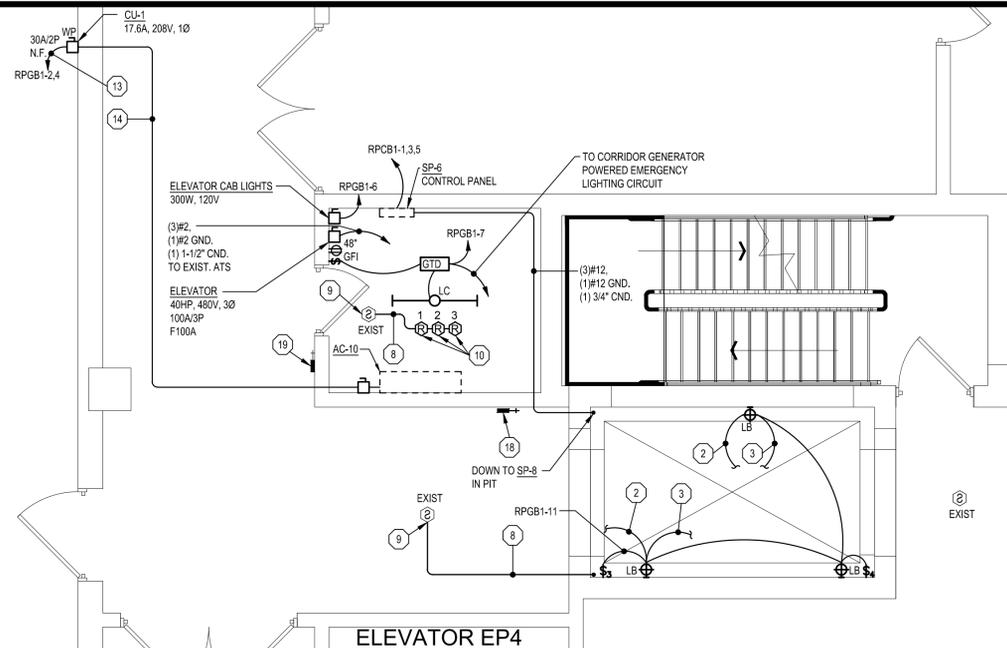
**ELEVATOR EP3
ELECTRICAL PARTIAL
SECOND FLOOR PLAN
NEW**

SCALE: 1/4" = 1'-0"

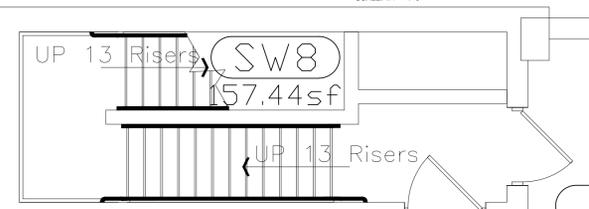
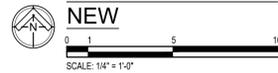


**ELEVATOR EP3
KEY PLAN
NOT TO SCALE**

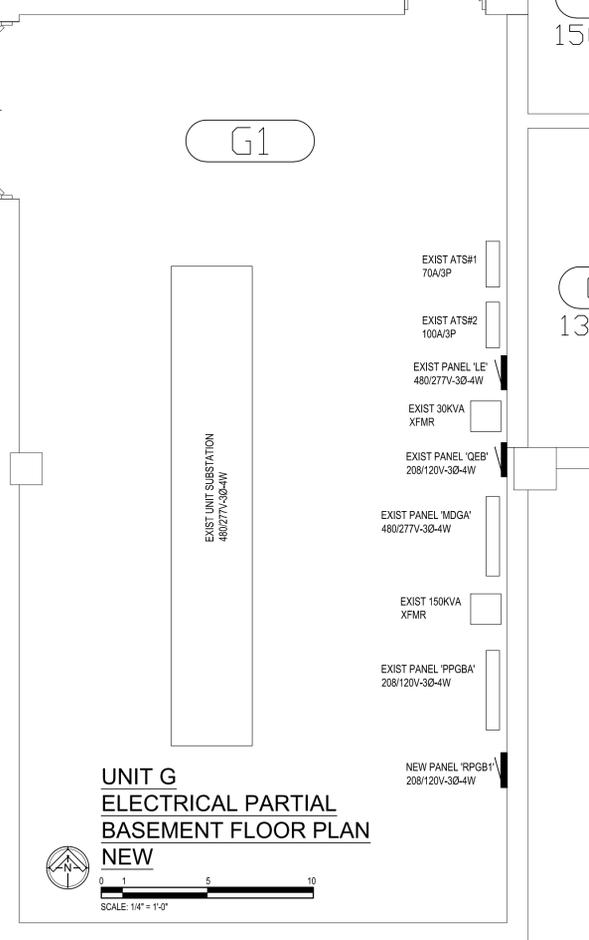
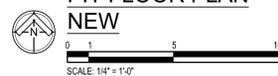
CAPITAL PROJ. NO. CP25044	
PR. MGR.	T. Pacifico
ARCH.	B. Charland
MECH.	A. Vanderstelt
ELEC.	G. Halsey
CIVIL	
L.A.	
INT. DES.	T. Pacifico
CONST. REP.	T. Pacifico
APPR.	D. Launstein
DATE	Feb. 20, 2026
SCALE	AS NOTED
ISSUED	
BID SET	



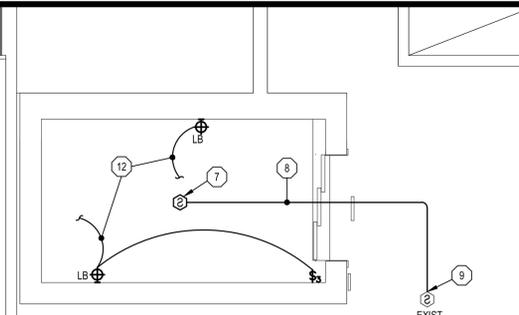
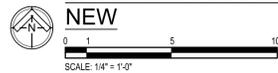
**ELEVATOR EP4
ELECTRICAL PARTIAL
FIRST FLOOR PLAN
NEW**



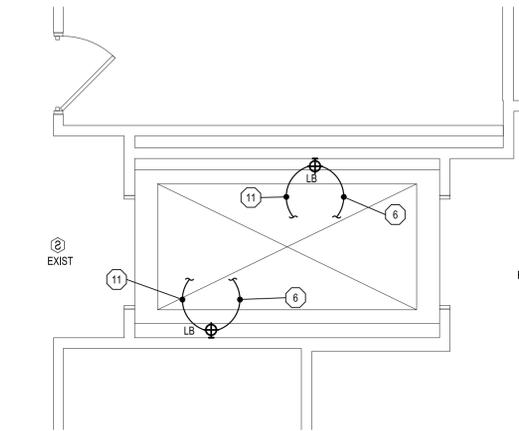
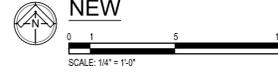
**ELEVATOR EP4
ELECTRICAL PARTIAL
PIT FLOOR PLAN
NEW**



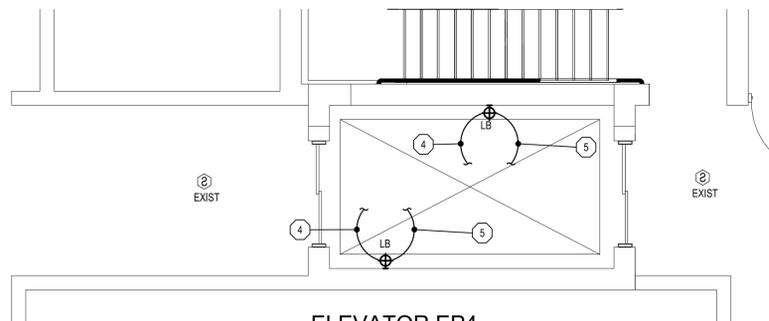
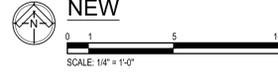
**UNIT G
ELECTRICAL PARTIAL
BASEMENT FLOOR PLAN
NEW**



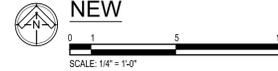
**ELEVATOR EP4
ELECTRICAL PARTIAL
PENTHOUSE FLOOR PLAN
NEW**



**ELEVATOR EP4
ELECTRICAL PARTIAL
THIRD FLOOR PLAN
NEW**

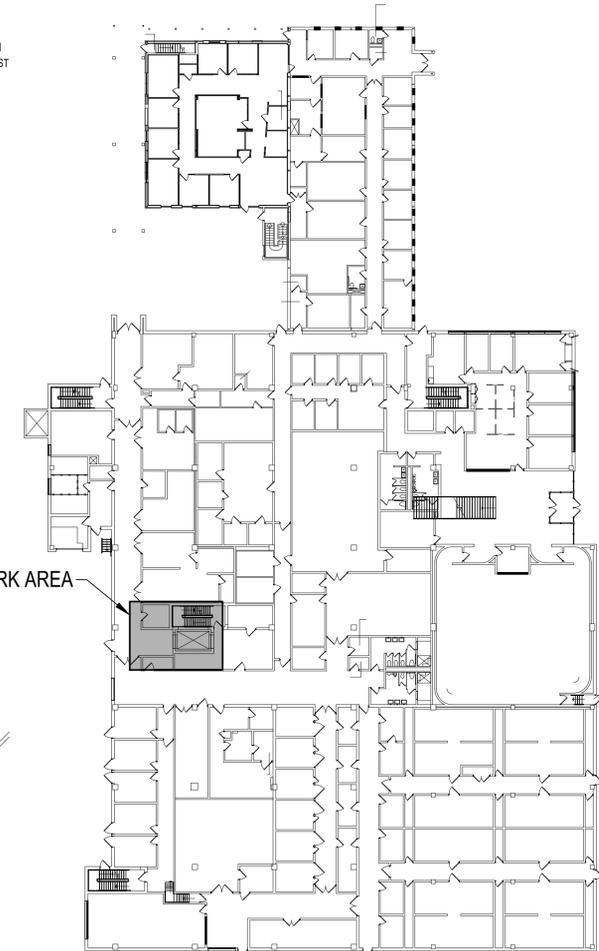


**ELEVATOR EP4
ELECTRICAL PARTIAL
SECOND FLOOR PLAN
NEW**



ELECTRICAL KEY NOTES

- 1 SWITCHED LIGHTING CIRCUIT UP TO TYPE 'LB' FIXTURE AT FIRST FLOOR. SEE ELECTRICAL PARTIAL FIRST FLOOR PLAN NEW THIS SHEET FOR CONTINUATION.
- 2 SWITCHED LIGHTING CIRCUIT DOWN TO TYPE 'LA' FIXTURE AT PIT LEVEL. SEE ELECTRICAL PARTIAL BASEMENT FLOOR PLAN NEW THIS SHEET FOR CONTINUATION.
- 3 SWITCHED LIGHTING CIRCUIT UP TO TYPE 'LB' FIXTURE AT SECOND FLOOR. SEE ELECTRICAL PARTIAL SECOND FLOOR PLAN NEW THIS SHEET FOR CONTINUATION.
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- 11 SWITCHED LIGHTING CIRCUIT UP TO TYPE 'LB' FIXTURE AT PENTHOUSE. SEE ELECTRICAL PARTIAL PENTHOUSE FLOOR PLAN NEW THIS SHEET FOR CONTINUATION.
- 12 SWITCHED LIGHTING CIRCUIT DOWN TO TYPE 'LA' FIXTURE AT FOURTH FLOOR. SEE ELECTRICAL PARTIAL FOURTH FLOOR PLAN NEW THIS SHEET FOR CONTINUATION.
- 13 2#10, 1#10 GND., 3/4" CONDUIT FROM 25A/2P CIRCUIT BREAKER, PANEL 'RP4A1-A', CIRCUITS #39,41.
- 14 3#12, 1#12, 3/4" CONDUIT FROM CU-1 TO AC-1.
- 15 COORDINATE INSTALLATION REQUIREMENTS OF SUMP PUMP ALARM PANEL WITH PLUMBING CONTRACTOR.
- 16 REMOVE EXISTING 20A/1P SPARE CIRCUIT BREAKERS IN EXISTING CIRCUITS #39 AND #41. INSTALL NEW 25A/2P CIRCUIT BREAKER IN CIRCUITS #39,41.
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**ELEVATOR EP4
KEY PLAN
NOT TO SCALE**



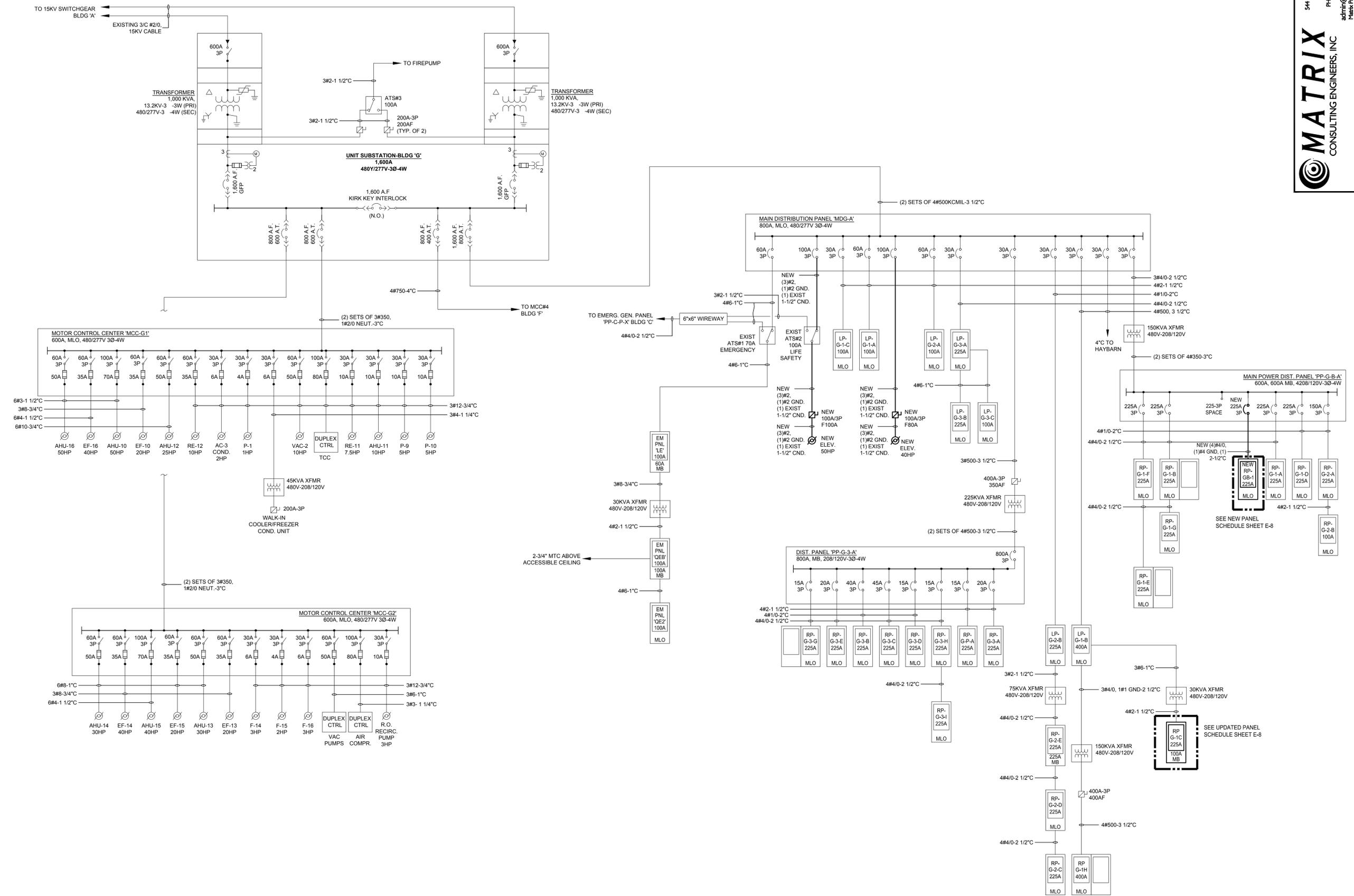
541 CHERBOURG DRIVE
LANSING, MI 48917
PHONE: (517) 487-2511
admin@matrixinc.com
Matrix Project No. 250757.00

MATRIX
CONSULTING ENGINEERS, INC.

CAPITAL PROJ. NO.	CP25044
PR. MGR.	T. Pacifico
ARCH.	B. Charland
MECH.	A. Vanderstelt
ELEC.	G. Halsey
CIVIL	
L.A.	
INT. DES.	
CONST. REP.	T. Pacifico
APPR.	D. Launstein
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SCALE	AS NOTED
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SEE NEW PANEL
SCHEDULE SHEET E-8

SEE UPDATED PANEL
SCHEDULE SHEET E-8



CAPITAL PROJ. NO. CP25044

PR. MGR. T. Pacifico
 ARCH. B. Charland
 MECH. A. Vanderstelt
 ELEC. G. Halsey
 CIVIL _____
 L.A. _____
 INT. DES. _____
 CONST. REP. T. Pacifico
 APPR. D. Launstein
 DATE Feb. 20, 2026
 SCALE AS NOTED
 ISSUED _____
 BID SET _____

NEW PANEL "RP-G-B-1"												
LOCATION: UNIT G BASEMENT ELECTRICAL VAULT				MOUNTING: SURFACE				A.I.C. RATING: 10 kA				
SUPPLY FROM: EXISTING PANEL "PP-G-BA"				ENCLOSURE: NEMA 1				NOTES:				
VOLTS: 208 /120		PHASE: 3		WIRE: 4		AMPS: 225A		MAIN: MCB				
BRKR	A	P	DESCRIPTION	CIRCUIT	PHASE LOADS			CIRCUIT	DESCRIPTION	BRKR	A	P
					VA	A	B					
20	1		SUMP PUMP SP-8	936	1	3048		2	2112	AC-1/CU-1	25	2
-	-		-	936	3		3048	4	2112	-	-	-
-	-		-	936	5			6	100	ELEVATOR EP4 CAB LIGHTS	20	1
20	1		ELEVATOR EP4 MACHINE ROOM LIGHTS	68	7	68		8		BLANK SPACE		
20	1		ELEVATOR EP4 MACHINE ROOM RECEPTACLES	180	9	180		10		BLANK SPACE		
20	1		ELEVATOR EP4 PIT LIGHTS	374	11		374	12		BLANK SPACE		
20	1		ELEVATOR EP4 PIT RECEPTACLES	180	13	180		14		BLANK SPACE		
			BLANK SPACE	15		0		16		BLANK SPACE		
			BLANK SPACE	17		0		18		BLANK SPACE		
			BLANK SPACE	19	0			20		BLANK SPACE		
			BLANK SPACE	21		0		22		BLANK SPACE		
			BLANK SPACE	23		0		24		BLANK SPACE		
			BLANK SPACE	25	0			26		BLANK SPACE		
			BLANK SPACE	27		0		28		BLANK SPACE		
			BLANK SPACE	29		0		30		BLANK SPACE		
			BLANK SPACE	31	0			32		BLANK SPACE		
			BLANK SPACE	33		0		34		BLANK SPACE		
			BLANK SPACE	35		0		36		BLANK SPACE		
			BLANK SPACE	37	0			38		BLANK SPACE		
			BLANK SPACE	39		0		40		BLANK SPACE		
			BLANK SPACE	41		0		42		BLANK SPACE		
CONNECTED				3296	3228	1410	TOTAL CONNECTED LOAD				7934	VOLT-AMPS
TOTAL CONNECTED				7934							22.02 AMPS	

LOAD CALCULATIONS			
LOAD TYPE	CONNECTED VA	DEMAND VA	N.E.C. SECTION
MECHANICAL	5160	5160	215.2(A)(1)
LIGHTING	542	678	215.2(A)(1)
RECEPTACLE	2232	2232	TABLE 220.44
KITCHEN EQUIPMENT	0	0	TABLE 220.56
OTHER	0	0	
TOTAL VA	7934	8070	
TOTAL AMPERAGE	22.02	22.40	

LOAD CATEGORY
MECHANICAL
RECEPTACLE
LIGHTING
RECEPTACLE
LIGHTING
RECEPTACLE

LOAD CATEGORY
MECHANICAL
LIGHTING

EXISTING PANEL "RP-G-1-C"												
LOCATION: SUPPLY FROM: EXISTING PANEL "LP-G-1-B"				MOUNTING: RECESSED				A.I.C. RATING: NOTES:				
ENCLOSURE: NEMA 1												
VOLTS: 208 /120		PHASE: 3		WIRE: 4		AMPS: 225A		MAIN: MCB				
BRKR	A	P	DESCRIPTION	CIRCUIT	PHASE LOADS			CIRCUIT	DESCRIPTION	BRKR	A	P
					VA	A	B					
20	1		1816 NORTH RECEPTACLE	360	1	720		2	360	MEN/WOMEN	20	1
20	1		1816 COUNTER RECEPTACLE	720	3		720	4		SPARE	20	1
20	1		1816 COUNTER	720	5		1800	6	1080	G-100 MODULAR OFF RECEPT	20	1
20	1		1816 COUNTER & MICROWAVE	1200	7	2280		8	1080	1810 FLOOR RECEPTACLES	20	1
20	1		1816 EAST & SOUTH RECEPTS	720	9		1440	10		720 UNKNOWN	20	1
20	1		1815 FLOOR & WALL RECEPTS	720	11		1440	12	720	1810 WEST WALL RECEPTACLES	20	1
20	1		1814 DESK & 1813 RECEPTS	720	13	1440		14	720	1802 RECEPTS & CLOCK	20	1
20	1		1814/1813 RECEPTS	720	15		1440	16	720	1802 RECEPTACLES	20	1
20	1		1811 RECEPTACLES	720	17		1416	18	696	1801 WATER COOLER	20	1
20	1		100E WALL RECEPTACLES	720	19	1440		20	720	100 MIDDLE FLOOR RECEPTACLE	20	1
20	1		1801 OVERHEAD HEATER	1800	21		2520	22	720	1818 CORRIDOR RECEPTACLES	20	1
20	1		UNKNOWN	720	23		1764	24	1044	1801 UH & EXTERIOR RECEPTS	20	1
20	1		UNKNOWN	720	25	1584		26	864	1817 UNIT HEATER	20	1
100	3		MAIN CIRCUIT BREAKER	27		1080		28	1080	G-100 MODULAR OFF RECEPT	20	1
-	-		-	29		1080		30	1080	G-100 MODULAR OFF RECEPT	20	1
-	-		-	31	720			32	720	UNKNOWN	20	1
20	1		SPARE	33		720		34	720	UNKNOWN	20	1
20	1		UNKNOWN	720	35		1680	36	960	LCN PNEUMATIC PUMP	20	1
20	1		ELEVATOR EP3 PIT SUMP PUMP	1176	37	1356		38	180	ELEVATOR EP3 PIT RECEPTACLE	20	1
20	1		ELEVATOR EP3 PIT LIGHTS	96	39		276	40	180	ELEVATOR EP3 MACHINE RM RECEPTACLE	20	1
20	1		ELEVATOR EP3 CAB LIGHTS	100	41		124	42	24	ELEVATOR MACHINE RM LIGHTS	20	1
CONNECTED				9540	8196	9304	TOTAL CONNECTED LOAD				27040	VOLT-AMPS
TOTAL CONNECTED				27040							75.06 AMPS	

LOAD CALCULATIONS			
LOAD TYPE	CONNECTED VA	DEMAND VA	N.E.C. SECTION
MECHANICAL	6540	6540	215.2(A)(1)
LIGHTING	220	275	215.2(A)(1)
RECEPTACLE	17640	13820	TABLE 220.44
KITCHEN EQUIPMENT	0	0	TABLE 220.56
OTHER	2640	2640	
TOTAL VA	27040	23275	
TOTAL AMPERAGE	75.06	64.60	