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**Heapy Engineering**  
MEP Design Technology Planning Commissioning Energy  
**Nationally Recognized Leader in Sustainability**  
1400 W Dorothy Lane, Dayton, OH 45409-1310  
Ph 937-224-0861 Fax 937-224-5777 [www.heapy.com](http://www.heapy.com)  
Heapy Project No: **2014-04014** Firm License No: **01528**



**ASA**  
ALAN SCHERR ASSOCIATES  
33 WEST FIRST STREET  
SUITE NUMBER 440  
DAYTON, OHIO 45402  
PH: 937 - 222-4585  
FX: 937 - 222-4520

Date 02/27/2015

Checked  
MSG

JAS

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Department of  
Veterans Affairs



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CONSULTANTS:

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MEP Design Technology Planning Commissioning Energy

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Heapy Project No.: 2014-04014 Firm License No.: 01528



ARCHITECT/ENGINEERS:



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PH: 937 - 222-4585  
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Drawing Title
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## LIGHTING FIXTURE SCHEDULES

Project Title	
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## EXPAND ENERGY CONSERVATION MEASURES

Location	DAYTON, OHIO
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Date 02/27/2015

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**JAS**

Project No.  
VA Project No. 552-16-205

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Office of  
Construction  
and Facilities  
Management



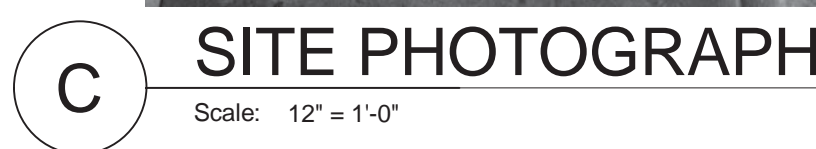






- B. REFER TO SHEET E001 FOR SYMBOL IDENTIFICATION AND SHEET E501 FOR LIGHTING FIXTURE DESCRIPTIONS.
- C. PROVIDE DETAIL FOR ALL OCCUPANCY SENSORS CONTROLLED BY OCCUPANCY SENSORS. WIRE SENSOR RAY PACK AREA OF LIGHT SWITCHING (EXCEPT FIRE SAFETY RELAY).
- D. PROVIDE DETAIL FOR ALL OCCUPANCY SENSORS AND CIRCUITS.
- E. COORDINATE ALL LIGHTING FIXTURE LOCATIONS WITH ARCHITECTURAL/PLANNING DETAILING PLANS.
- F. PROVIDE DETAIL FOR ALL OCCUPANCY SENSORS. SUBMIT AN IN-SPACE FLOOR PLAN SHOWING PROPOSED LAYOUT WITH DEVICES CLEARLY IDENTIFIED DURING SHOP DRAWING REVIEW. OCCUPANCY SENSOR DETAILING SHALL BE PROVIDED BY THE OCCUPANCY SENSOR MANUFACTURER. REQUEST ARM&CLAD FLOOR PLANS WITH IN-DELIVERY OF THE OCCUPANCY SENSOR DETAILING. PROVIDE DETAIL FOR ALL CEILINGMOUNTED OCCUPANCY SENSORS. ALL CEILINGMOUNTED OCCUPANCY SENSORS SHALL BE INDEPENDENT.
- G. COORDINATE OCCUPANCY SENSOR AIMING AND PLACEMENT WITH ARCHITECTURAL/PLANNING DETAILING PLANS.
- H. PROVIDE DETAIL FOR ALL EXISTING AREA OF LIGHT SWITCHING.
- I. CONTRACTOR SHALL INSTALL ELECTRICAL CONDUIT/FEEDERS THAT PROVIDE PROPER FLOOR AND CEILING CLEARANCES ABOVE OTHER TRADES ABOVE CEILING EQUIPMENT.
- J. PROVIDE PROGRAMMED RATED START BALLASTS FOR ALL INFORMATION DURING SHOP DRAWING REVIEW.
- K. PROVIDE DETAIL FOR ALL OCCUPANCY SENSORS HAVE MORE THAN THREE CIRCUITS. EACH BRANCH CIRCUIT SHALL HAVE A SEPARATE NEUTRAL AND COMMONSHARED GREEN INSULATED EQUIPMENT GROUNDING CONDUCTOR.
- L. INCLUDE ALL WORK NECESSARY TO ACCOMMODATE PHASING, REFER TO ARCHITECTURAL DRAWINGS AND GENERAL REQUIREMENTS SECTION 010100.
- M. REFER TO ARCHITECTURAL DRAWINGS FOR RATED WALL SWITCHES.
- N. PROVIDE PRINTED LABELS ON ALL RECEPTACLE AND SWITCH.
- O. PROVIDE DETAIL FOR ALL RECEPTACLE AND SWITCHES.
- P. WHERE MULTIPLE OCCUPANCY SENSORS ARE SHOWN IN A COMMON ROOM OR CORRIDOR, WIRE SENSORS IN PARALLEL FOR COMMON ZONE.

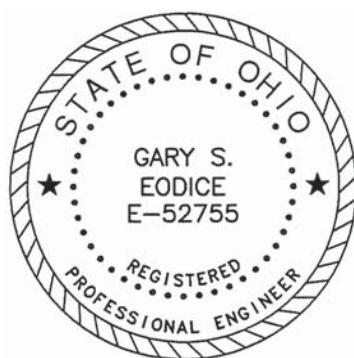
- PROVIDE 5-BUTTON RISE / LOWER SECTIONS 1 THRU 4 + (OFF) CONTROL STATION. COORDINATE EXIST LOCATION WITH COR PIER TO ROUGH-IN FOR THE FIRST PIER BOLT. PROVIDE 5-BUTTON LOWER SECTIONS 5 THRU 6 + (OFF) CONTROL WIRE BETWEEN THE TWO CONTROL STATIONS (#2 & 3).
- REMOVE EXISTING 500W INCANDESCENT HOUSE DOWNLIGHTS.
- REMOVE EXISTING 500W INCANDESCENT HOUSE DOWNLIGHTS. RECONNECT BACK TO DIMMER PANEL LOCATED ON STAGE.
- INSTALL SUPPORT STAGE (IF APPLICABLE) FOR FIXTURE INSTALLATION.
- UTILIZE EXISTING CATVAIL TO INSTALL PLANNING.
- REMOVE EXISTING 500W INCANDESCENT TRIM RING TO REMAIN. DO NOT REMOVE FOR INSTALLATION OF NEW LIGHTING. UTILIZE EXISTING.
- PROVIDE FLEXIBLE COR / CONNECTION FROM PULLBOX TO NEW DESK.
- REMOVE EXISTING 500W INCANDESCENT TRIM RING TO REMAIN. DO NOT REMOVE FOR INSTALLATION OF NEW LIGHTING. UTILIZE EXISTING.
- PROVIDE NEW SURFACE MOUNTED PULLBOX. SIZE PER NEC, AS14.
- REMOVE EXISTING FLOOR SLAB TO GAIN ACCESS TO CRAWL SPACE BELOW.
- UTILIZE THRU-BOLTS ON EXISTING TRIM RING TO SECURE NEW LED DOWNLIGHTS TO EXISTING TRIM RING. PROVIDE 1/2" X 1/2" X 1/2" MOUNTING BRACKET. ALL COMPONENTS OF NEW DOWNLIGHT TO BE ACCESSIBLE FROM ABOVE. PRIOR TO CONSTRUCTION / INSTALLATION OF NEW CONTRACTOR SHALL PROVIDE A DETAIL DRAWING OF THE DIAGRAM OF CUSTOM MOUNTING BRACKET TO ENGINEER FOR CONSTRUCTION PURPOSES. THRU-BOLTS ON EXISTING TRIM RING ARE 6" APART.

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SUITE NUMBER 440  
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FX: 937 - 222-4520

## SITE PHOTOGRAPHS

## EXPAND ENERGY CONSERVATION MEASURES

Location DAYTON, OHIO

Date 02/27/2015

Checked

Drawn

Project No.	VA Project No. 552-16-205
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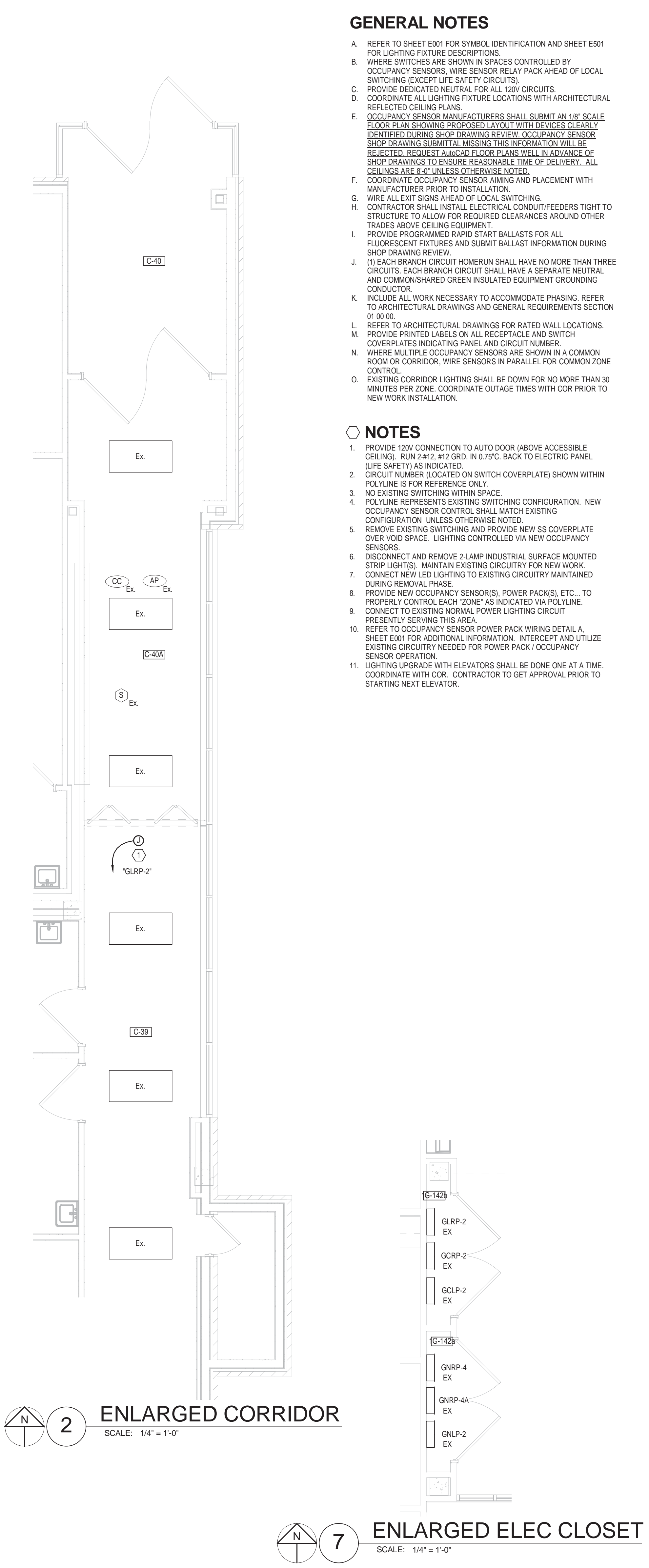
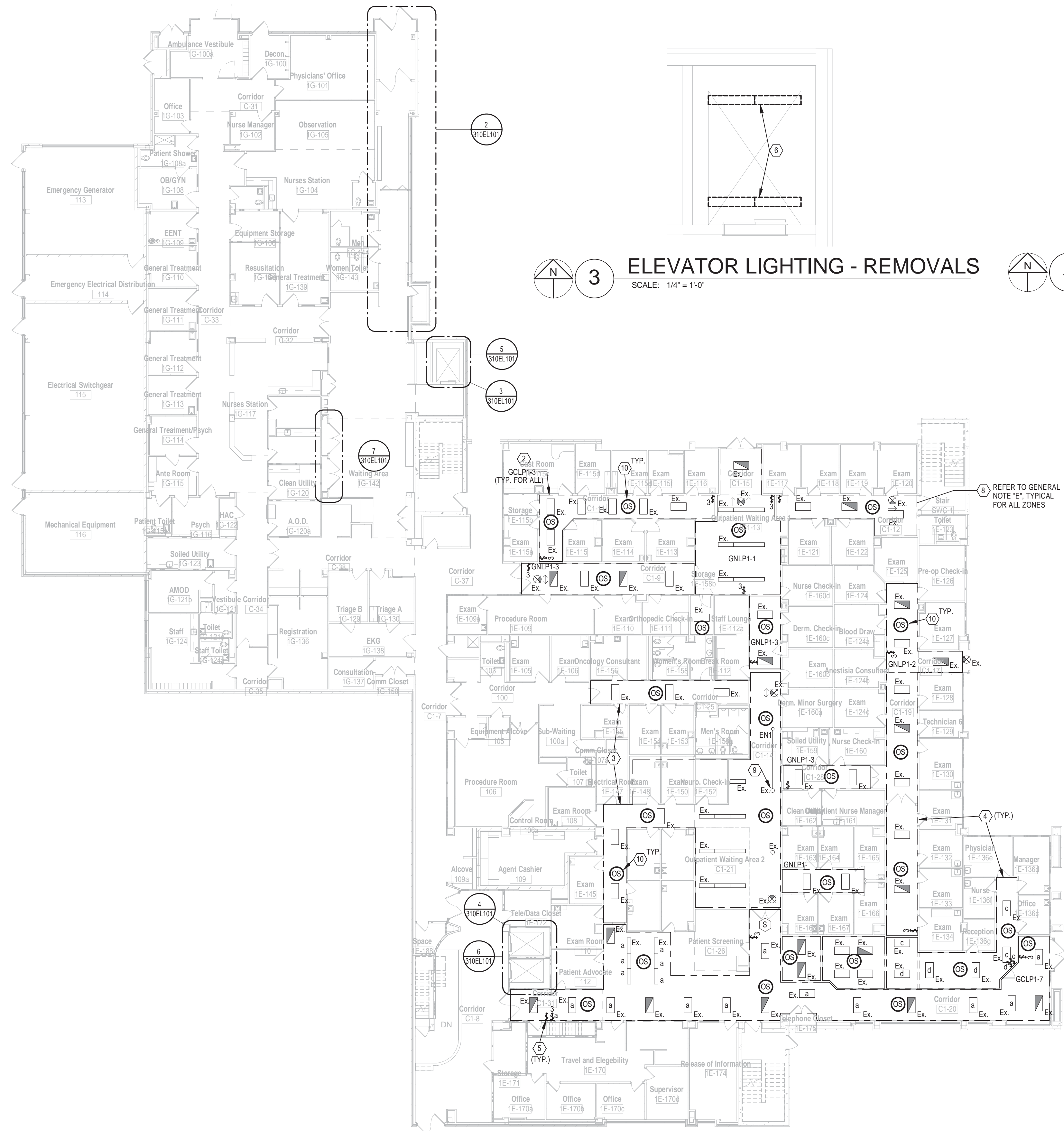
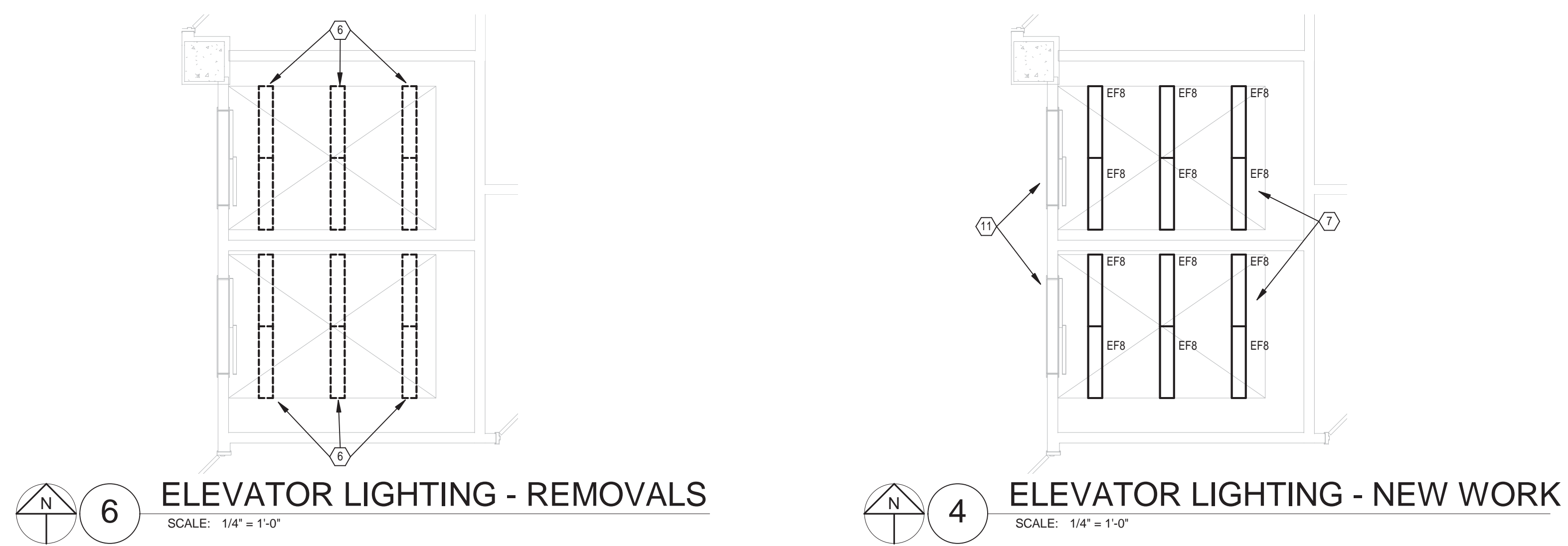
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Office of  
Construction  
and Facilities  
Management





three inches = one foot  
one and one-half inches = one foot  
three-quarters inch = one foot  
one-half inch = one foot  
three-eighths inch = one foot  
one-quarter inch = one foot  
one-eighth inch = one foot



- ### GENERAL NOTES
- REFER TO SHEET E001 FOR SYMBOL IDENTIFICATION AND SHEET E501 FOR LIGHTING FIXTURE DESCRIPTIONS.
  - WHERE SWITCHES ARE SHOWN IN SPACES CONTROLLED BY OCCUPANCY SENSORS, WIRE SENSOR RELAY PACK AHEAD OF LOCAL SWITCHING (EXCEPT LIFE SAFETY CIRCUITS).
  - PROVIDE DEDICATED NEUTRAL FOR ALL 120V CIRCUITS.
  - COORDINATE ALL LIGHTING FIXTURE LOCATIONS WITH ARCHITECTURAL REFLECTED CEILING PLANS.
  - OCCUPANCY SENSOR MANUFACTURERS SHALL SUBMIT A 1/8" SCALE FLOOR PLAN SHOWING PROPOSED LAYOUT WITH DEVICES CLEARLY IDENTIFIED DURING SHOP DRAWING REVIEW. OCCUPANCY SENSOR SHOP DRAWING SUBMITTAL MISSING THIS INFORMATION WILL BE REJECTED. REQUEST ANNOTATED FLOOR PLANS WELL IN ADVANCE OF SHOP DRAWINGS TO ENSURE REASONABLE TIME OF DELIVERY. ALL CEILING ARE 8'-0" UNLESS OTHERWISE NOTED.
  - COORDINATE OCCUPANCY SENSOR AIMING AND PLACEMENT WITH MANUFACTURER PRIOR TO INSTALLATION.
  - WIRE ALL EXT. SIGNS AHEAD OF LOCAL SWITCHING.
  - CONTRACTOR SHALL INSTALL ELECTRICAL CONDUIT/FEEDERS TIGHT TO STRUCTURE TO ALLOW FOR REQUIRED CLEARANCES AROUND OTHER TRADES ABOVE CEILING EQUIPMENT.
  - PROVIDE PROGRAMMED RAPID START BALLASTS FOR ALL FLUORESCENT FIXTURES AND SUBMIT BALLAST INFORMATION DURING SHOP DRAWING REVIEW.
  - (1) EACH BRANCH CIRCUIT HOMERUN SHALL HAVE NO MORE THAN THREE CIRCUITS. EACH BRANCH CIRCUIT SHALL HAVE A SEPARATE NEUTRAL AND COMMON/SHARED GREEN INSULATED EQUIPMENT GROUNDING CONDUCTOR.
  - INCLUDE ALL WORK NECESSARY TO ACCOMMODATE PHASING. REFER TO ARCHITECTURAL DRAWINGS AND GENERAL REQUIREMENTS SECTION 01 00 00.
  - REFER TO ARCHITECTURAL DRAWINGS FOR RATED WALL LOCATIONS.
  - PROVIDE PRINTED LABELS ON ALL RECEPTACLE AND SWITCH COVERPLATES INDICATING PANEL AND CIRCUIT NUMBER.
  - WHERE MULTIPLE OCCUPANCY SENSORS ARE SHOWN IN A COMMON ROOM OR CORRIDOR, WIRE SENSORS IN PARALLEL FOR COMMON ZONE CONTROL.
  - EXISTING CORRIDOR LIGHTING SHALL BE DOWN FOR NO MORE THAN 30 MINUTES PER ZONE. COORDINATE OUTAGE TIMES WITH COR PRIOR TO NEW WORK INSTALLATION.

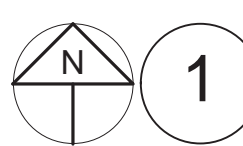
- ### NOTES
- PROVIDE 120V CONNECTION TO AUTO DOOR (ABOVE ACCESSIBLE CEILING). RUN 2-#12 RIGID GRD. IN 6" P.C. BACK TO ELECTRIC PANEL (LIFE SAFETY) AS INDICATED.
  - CIRCUIT NUMBER LOCATED ON SWITCH COVERPLATE SHOWN WITHIN POLYLINE IS FOR REFERENCE ONLY.
  - NO EXISTING SWITCHING WITHIN SPACE.
  - POLYLINE REPRESENTS EXISTING SWITCHING CONFIGURATION. NEW OCCUPANCY SENSOR CONTROL SHALL MATCH EXISTING CONFIGURATION UNLESS OTHERWISE NOTED.
  - REMOVE EXISTING SWITCHING AND PROVIDE NEW SS COVERPLATE OVER VOID SPACE. LIGHTING CONTROLLED VIA NEW OCCUPANCY SENSORS.
  - DISCONNECT AND REMOVE 2-LAMP INDUSTRIAL SURFACE MOUNTED STRIP LIGHTS). MAINTAIN EXISTING CIRCUITRY FOR NEW WORK.
  - CONNECT NEW LED LIGHTING TO EXISTING CIRCUITRY MAINTAINED DURING REMOVAL PHASE.
  - PROVIDE NEW OCCUPANCY SENSORS (POWER PACK(S), ETC., TO PROPERLY CONTROL EACH ZONE AS INDICATED VIA POLYLINE.
  - CONNECT TO EXISTING NORMAL POWER LIGHTING CIRCUIT PRESENTLY SERVING THIS AREA.
  - REFER TO OCCUPANCY SENSOR POWER PACK WIRING DETAIL A, SHEET E001 FOR ADDITIONAL INFORMATION. INTERCEPT AND UTILIZE EXISTING CIRCUITRY NEEDED FOR POWER PACK / OCCUPANCY SENSOR OPERATION.
  - LIGHTING UPGRADE WITH ELEVATORS SHALL BE DONE ONE AT A TIME. COORDINATE WITH COR. CONTRACTOR TO GET APPROVAL PRIOR TO STARTING NEXT ELEVATOR.

Revisions	Date	CONSULTANTS:	<b>Heapy Engineering</b> MEP Design Technology Planning Commissioning Energy <i>Nationally Recognized Leader in Sustainability</i> 1400 W Dorothy Lane, Dayton, OH 45409-1310 Ph 937-224-0861 Fax 937-224-5777 www.heapy.com Heapy Project No.: 2014-04014 Firm License No.: 01528		ARCHITECT/ENGINEERS: <b>ASA</b> ALAN SCHERR ASSOCIATES 33 WEST FIRST STREET SUITE NUMBER 440 DAYTON, OHIO 45402 PH: 937-222-4585 FX: 937-222-4520	Drawing Title <b>BUILDING 310 - FIRST FLOOR PLAN - NEW WORK - LIGHTING</b>	Project Title <b>EXPAND ENERGY CONSERVATION MEASURES</b>	Project No. VA Project No. 552-16-205	Office of Construction and Facilities Management	
						Approved: Project Director	Location DAYTON, OHIO	Building Number B-310		Drawing Number <b>310EL101</b>
							Date 02/27/2015	Checked MSG	Drawn JAS	



1. POLYLINE REPRESENTS EXISTING SWITCHING CONFIGURATION. NEW  
OCCUPANCY SENSOR CONTROL SHALL MATCH EXISTING  
CONFIGURATION UNLESS OTHERWISE NOTED.

2. REMOVE EXISTING SWITCHING AND PROVIDE NEW SS COVERPLATE OVER  
VOID SPACE. LIGHTING CONTROLLED VIA NEW OCCUPANCY SENSORS.  
PROVIDE NEW OCCUPANCY SENSOR(S), POWER PACK(S), ETC. TO  
POLYLINE CONTROL EACH ZONE AS INDICATED. POLYLINE  
REFER TO OCCUPANCY SENSOR POWER PACK/WIRING DETAIL SHEET  
E041 FOR ADDITIONAL INFORMATION. INTERCEPT AND UTILIZE EXISTING  
CIRCUITRY NEEDED FOR POWER PACK / OCCUPANCY SENSOR  
OPERATION.



SCALE: 1/16" = 1'-0"

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BUILDING 330 - BASEMENT FLOOR  
PLAN - NEW WORK - LIGHTING

## EXPAND ENERGY CONSERVATION MEASURES

Location DAYTON, OHIO

Date 02/27/2015

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Project No.  
VA Project No. 552-16-205

Building Number  
**B-330**

Drawing Number

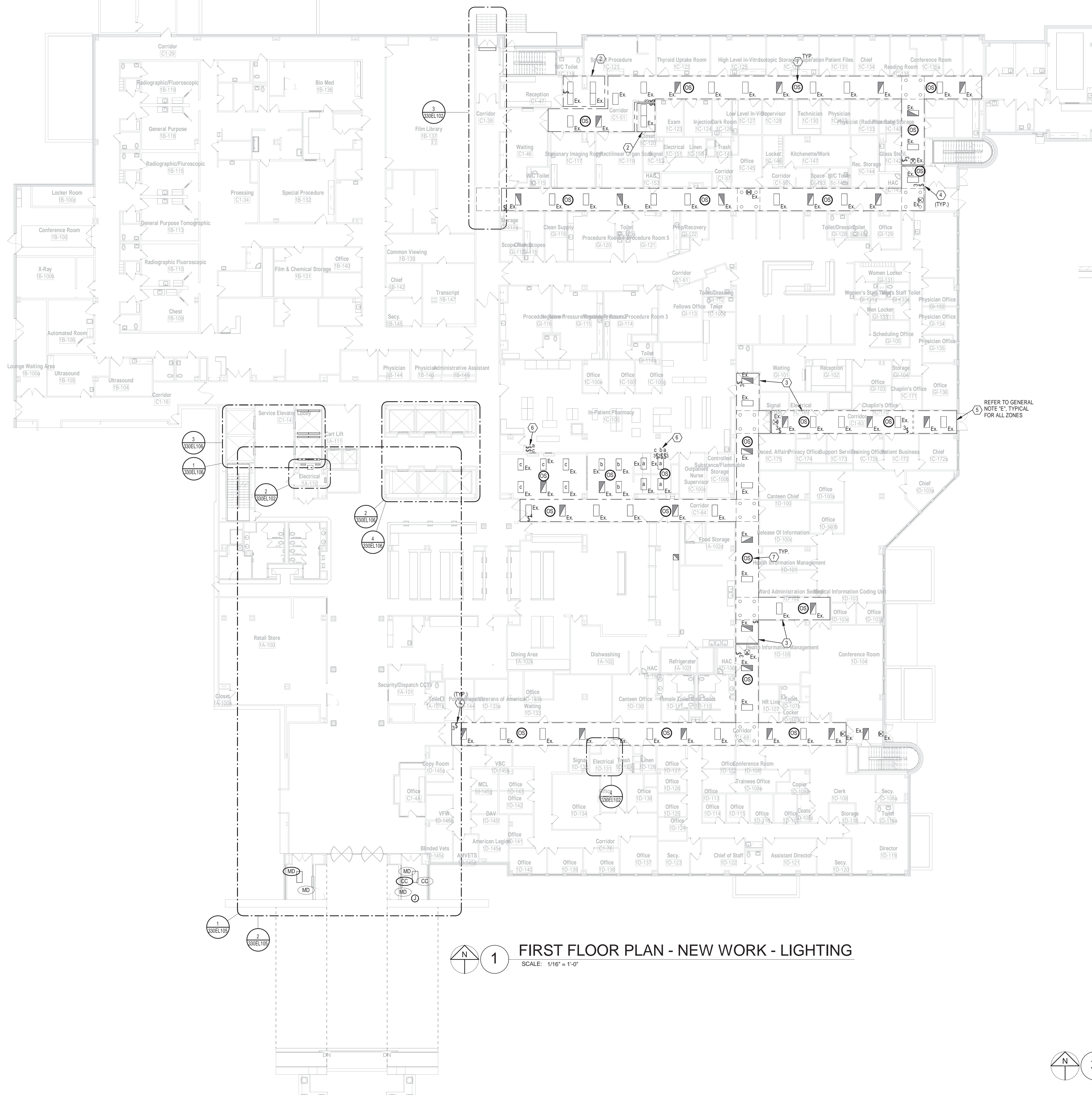
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Page 1 of 1

Office of  
Construction  
and Facilities  
Management





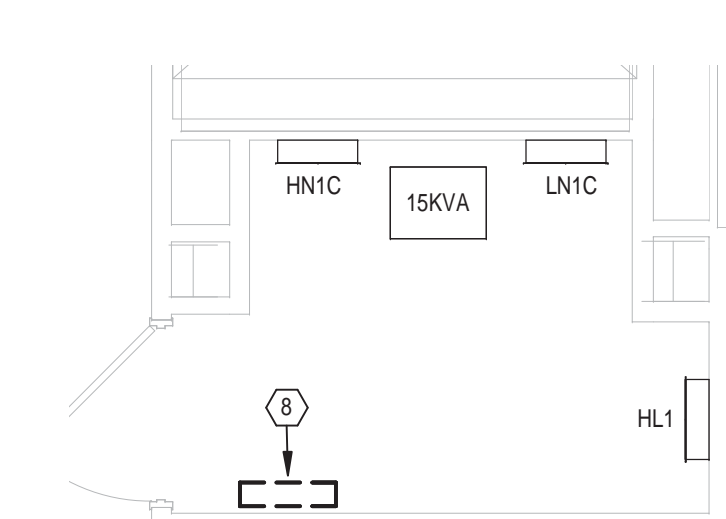
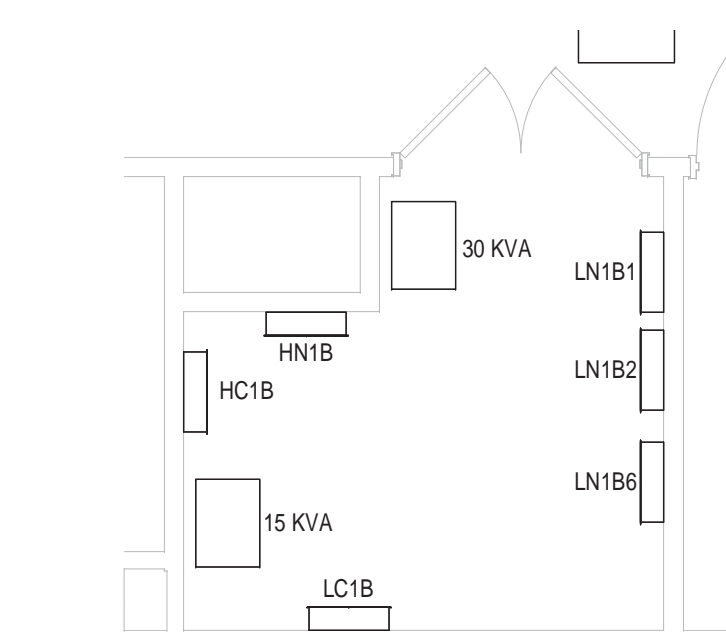
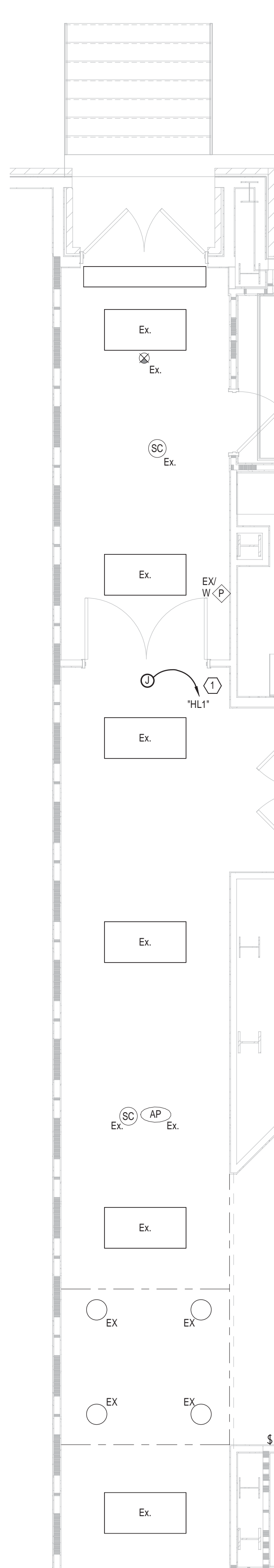


## GENERAL NOTES

- A. REFER TO SHEET E001 FOR SYMBOL, IDENTIFICATION AND SHEET E501 FOR LIGHTING FIXTURE DESCRIPTIONS.
- B. WHERE SWITCHES ARE SHOWN IN SPACES COORDINATED BY OCCUPANCY SENSOR, WIRE SENSORS SHALL BE INSTALLED INSTEAD OF LOCAL SWITCHING (EXCEPT LIFE SAFETY CIRCUITS).
- C. PROVIDE DEDICATED NEUTRAL FOR ALL 120V CIRCUITS.
- D. ALL ELECTRICAL LOCATIONS WITH ARCHITECTURAL REFLECTED CEILING PLANS.
- E. PROVIDE OCCUPANCY SENSORS SHALL SUBMIT AN 18" SCALE FLOOR PLAN SHOWING PROPOSED PLACING WITH DEVICES CLEARLY IDENTIFIED DURING SHOP DRAWING REVIEW. OCCUPANCY SENSOR SHOP DRAWINGS MUST INCLUDE: 1. DEVICE TYPE AND LOCATION. 2. REQUEST AMONG FLOOR PLANS WELL IN ADVANCE OF SHOP DRAWINGS TO ENSURE REASONABLE TIME OF DELIVERY. ALL CEILING ARE 8'-0" MINIMUM CLEARANCE.
- F. COORDINATE OCCUPANCY SENSOR AIMING AND PLACEMENT WITH MANUFACTURER PRIOR TO INSTALLATION.
- G. WIRE ALL EXISTING SIGNAL WIRING.
- H. CONTRACTOR SHALL INSTALL ELECTRICAL CONDUIT/FITTINGS TIGHT TO WALLS TO ALLOW FOR MINIMUM CLEARANCES AROUND OTHER TRADES ABOVE CEILING ELEMENT.
- I. PROVIDE PROGRAMMED RAPID START BALLASTS FOR ALL FLUORESCENT LIGHTS AND SUBMIT BALLAST INFORMATION DURING SHOP DRAWING REVIEW.
- J. (1) EACH CHAIR CROCKET HORMER SHALL HAVE NO MORE THAN THREE (3) BRANCHES OF WIRING TO EACH LIGHT FIXTURE. (2) ALL THREE BRANCHES OF WIRING SHALL BE INSTALLED IN A COMMON GROUND GREEN INSULATED EQUIPMENT GROUNDING CONDUCTOR.
- K. IN ADDITION TO WORK NECESSARY TO ACCOMMODATE PAGING, REFER TO ARCHITECTURAL DRAWINGS AND GENERAL REQUIREMENTS SECTION 01 00 00.
- L. REFER TO ARCHITECTURAL DRAWINGS FOR RATED WALL LOCATIONS.
- M. PROVIDE PRINTED LABELS ON ALL RECEPTACLE AND SWITCH. LABELS SHALL INDICATE THE TYPE OF DEVICE AND THE NUMBER OF THE DEVICE.
- N. WHERE MULTIPLE OCCUPANCY SENSORS ARE SHOWN IN A COMMON ROOM OR CORRIDOR, WIRE SENSORS IN PARALLEL FOR COMMON ZONE.
- O. EXISTING CORRIDOR LIGHTING SHALL BE DOWN FOR NO MORE THAN 30 MINUTES PER ZONE. COORDINATE OUTAGE TIMES WITH CORP RISK TO MINIMIZE DISRUPTION.

## NOTES

1. PROVIDE 27V CONNECTION TO AUTO DOOR (ABOVE ACCESSIBLE CEILING) RUN 2\*12 GND. IN 0.75' CAB BACK TO ELECTRIC PANEL AS INDICATED.
2. MAINTAIN EXISTING CONTROL WITHIN THIS AREA.
3. PROVIDE REPRESENTS EXISTING SWITCHING CONFIGURATION. NEW OCCUPANCY SENSOR CONTROL SHALL MATCH EXISTING CONFIGURATION UNLESS OTHERWISE NOTED.
4. REMOVE EXISTING SWITCHING AND PROVIDE NEW SCS COVERPLATE OVER VOID SPACE. LIGHTING CONTROLLED VIA NEW OCCUPANCY SENSORS.
5. PROVIDE NEW OCCUPANCY SENSOR(S), POWER PACK(S), ETC., TO PROPERLY CONTROL EACH "ZONE" AS INDICATED BY POLYLINE.
6. PROVIDE SWITCHING DETAIL AND WIRING DIAGRAMS. IF NOTED, REFER TO OCCUPANCY SENSOR POWER PACK WIRING DETAIL A, SHEET E001 FOR ADDITIONAL INFORMATION. INTERCEPT AND UTILIZE EXISTING CIRCUITRY NECESSARY FOR POWER PACK / OCCUPANCY SENSOR OPERATION.
7. EXISTING LOBBY HIG LIGHTING BALLAST LOCATION TO BE REMOVED.

[illegible]

CONSULTANTS:



ARCHITECT/ENGINEERS:



Drawing Title

**BUILDING 330 - FIRST FLOOR PLAN -  
NEW WORK - LIGHTING**

Project Title	EXPAND ENERGY CONSERVATION MEASURES
Location	DAYTON, OHIO

Date 02/27/2015

Project No.	VA Project No. 552-16-205
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B-330

Drawing Number

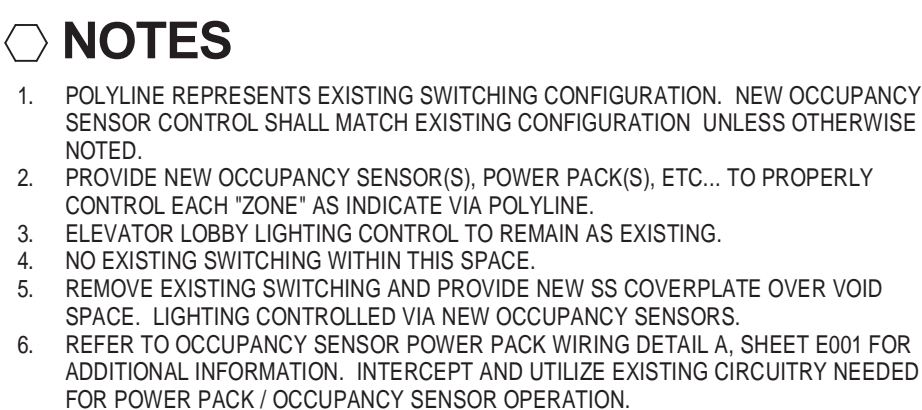
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Office of  
Construction  
and Facilities  
Management








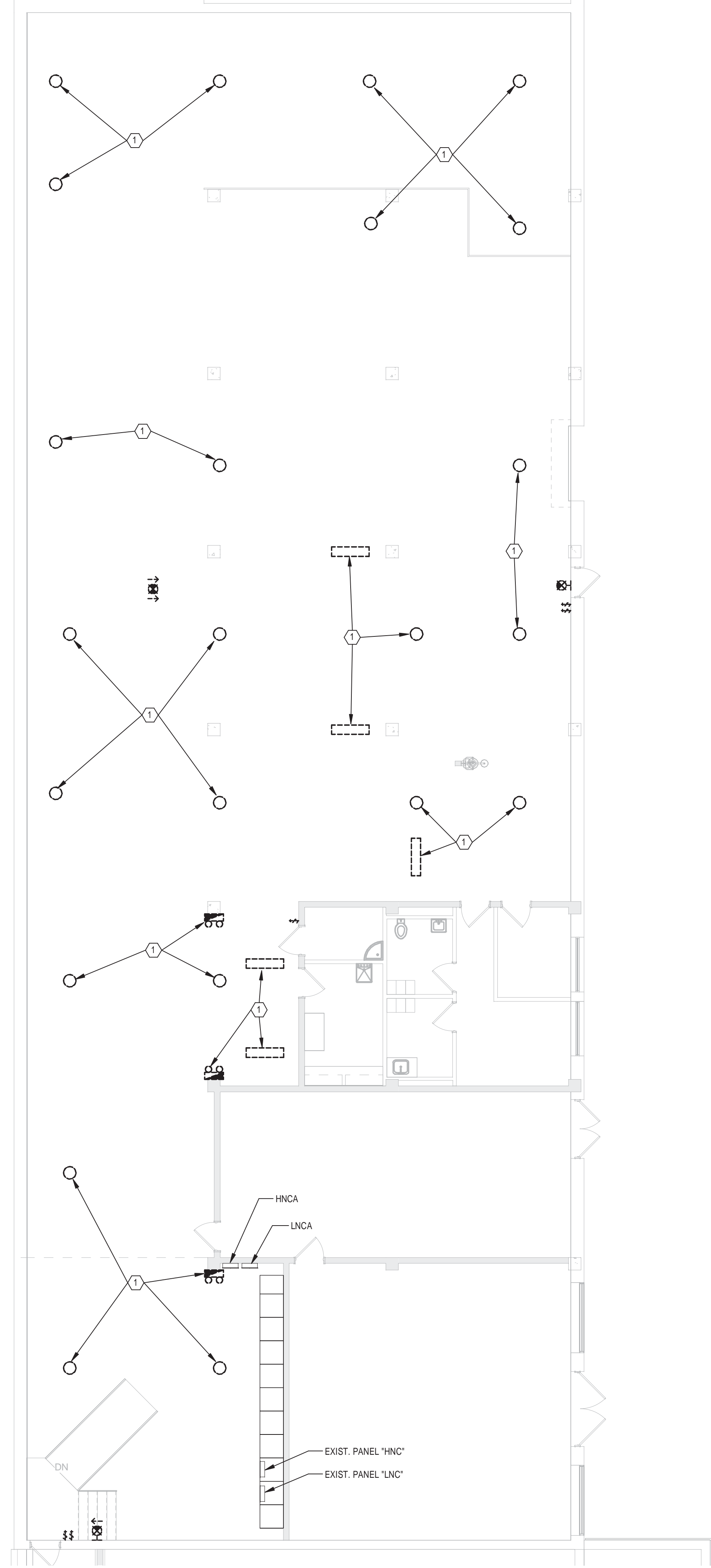
## SECOND FLOOR PLAN - NEW WORK - LIGHTING

Office of  
Construction  
and Facilities  
Management

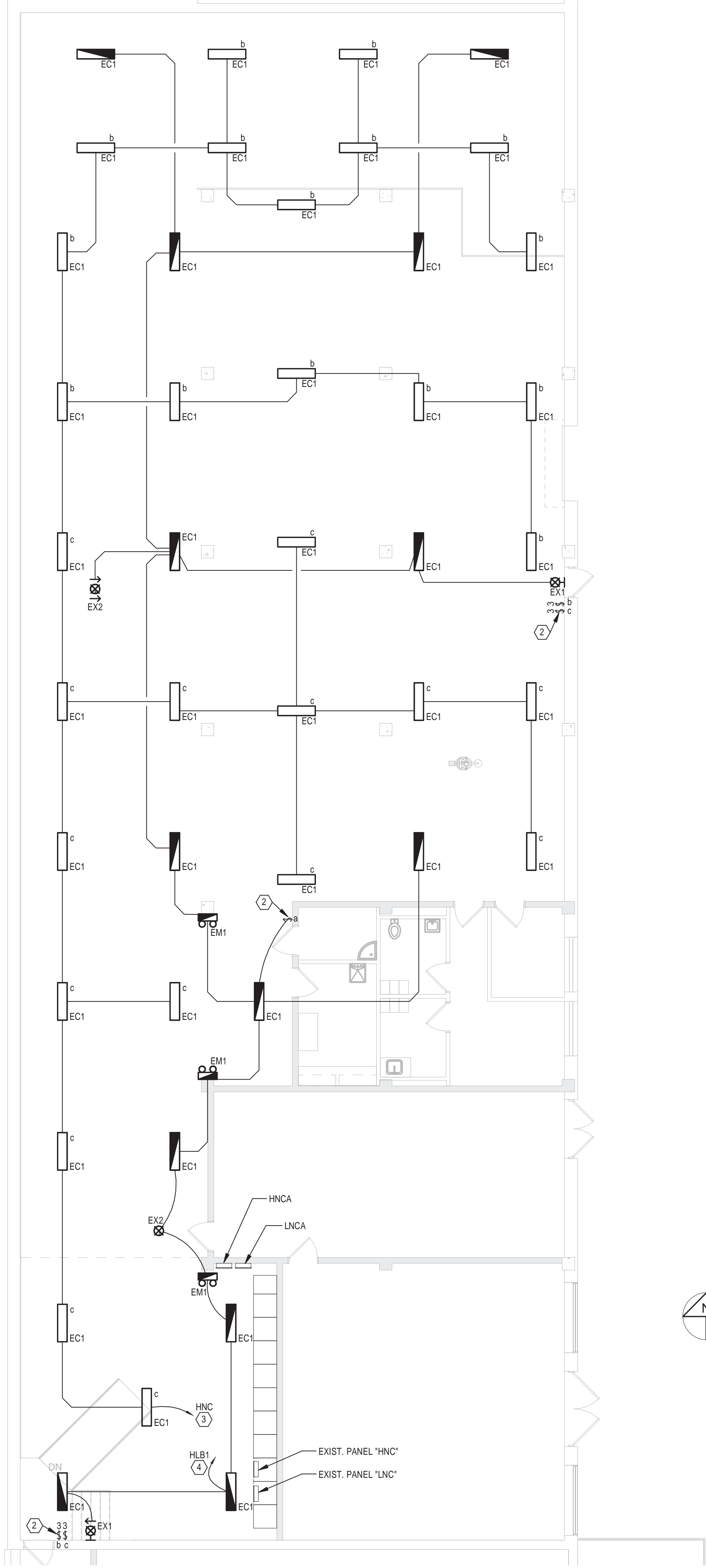
 Department of  
Veterans Affairs



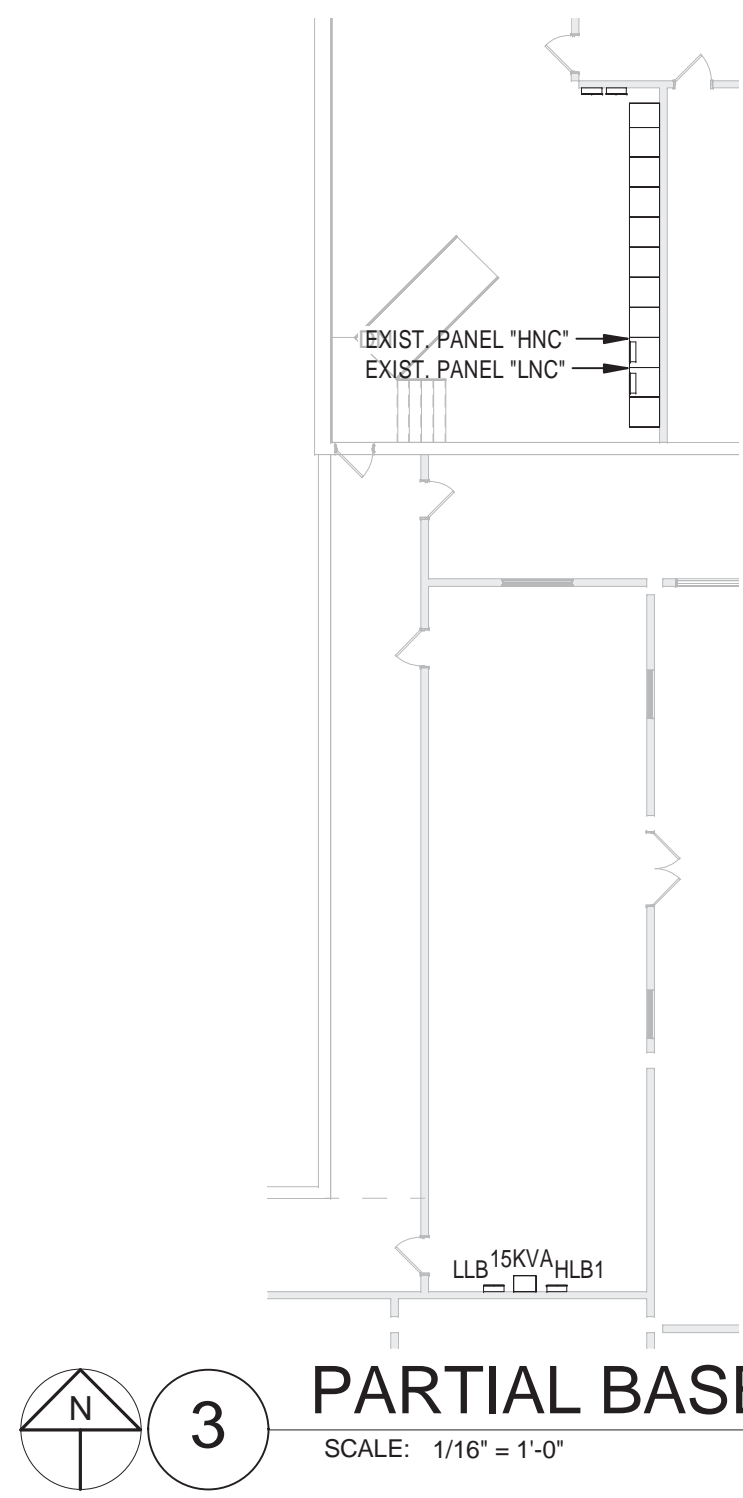
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one and one-half inches = one foot  
one inch = one foot  
three-quarters inch = one foot  
one-half inch = one foot  
three-eighths inch = one foot  
one-quarter inch = one foot  
one-eighth inch = one foot



1 CHILLER PLANT - REMOVAL - LIGHTING  
SCALE: 1/8" = 1'-0"



2 CHILLER PLANT - NEW WORK - LIGHTING  
SCALE: 1/8" = 1'-0"



3 PARTIAL BASEMENT PLAN  
SCALE: 1/16" = 1'-0"

## GENERAL NOTES

- REFER TO SHEET E001 FOR SYMBOL IDENTIFICATION AND SHEET E501 FOR LIGHTING FIXTURE DESCRIPTIONS.
- WHERE SWITCHES ARE SHOWN IN SPACES CONTROLLED BY OCCUPANCY SENSORS, WIRE SENSOR RELAY PACK AHEAD OF LOCAL SWITCHING (EXCEPT LIFE SAFETY CIRCUITS).
- PROVIDE DEDICATED NEUTRAL FOR ALL 120V CIRCUITS.
- COORDINATE ALL LIGHTING FIXTURE LOCATIONS WITH ARCHITECTURAL REFLECTED CEILING PLANS.
- OCCUPANCY SENSOR MANUFACTURERS SHALL SUBMIT AN 1/8" SCALE FLOOR PLAN SHOWING PROPOSED LAYOUT WITH DEVICES CLEARLY IDENTIFIED DURING SHOP DRAWING REVIEW. OCCUPANCY SENSOR SHOP DRAWING SUBMITTAL MISSING THIS INFORMATION WILL BE REJECTED. REQUEST ANNOTATED FLOOR PLANS WELL IN ADVANCE OF SHOP DRAWINGS TO ENSURE REASONABLE TIME OF DELIVERY. ALL CEILINGS ARE 8'-0" UNLESS OTHERWISE NOTED.
- COORDINATE OCCUPANCY SENSOR AIMING AND PLACEMENT WITH MANUFACTURER PRIOR TO INSTALLATION.
- WIRE ALL EXIT SIGNS AHEAD OF LOCAL SWITCHING.
- CONTRACTOR SHALL INSTALL ELECTRICAL CONDUIT/FEEDERS TIGHT TO STRUCTURE TO ALLOW FOR REQUIRED CLEARANCES AROUND OTHER TRADES ABOVE CEILING EQUIPMENT.
- PROVIDE PROGRAMMED RAPID START BALLASTS FOR ALL FLUORESCENT FIXTURES AND SUBMIT BALLAST INFORMATION DURING SHOP DRAWING REVIEW.
- (1) EACH BRANCH CIRCUIT HOMERUN SHALL HAVE NO MORE THAN THREE CIRCUITS. EACH BRANCH CIRCUIT SHALL HAVE A SEPARATE NEUTRAL AND COMMON/SHARED GREEN INSULATED EQUIPMENT GROUNDING CONDUCTOR.
- INCLUDE ALL WORK NECESSARY TO ACCOMMODATE PHASING. REFER TO ARCHITECTURAL DRAWINGS AND GENERAL REQUIREMENTS SECTION 01 00 00.
- REFER TO ARCHITECTURAL DRAWINGS FOR RATED WALL LOCATIONS.
- PROVIDE PRINTED LABELS ON ALL RECEPTACLE AND SWITCH COVERPLATES INDICATING PANEL AND CIRCUIT NUMBER.
- WHERE MULTIPLE OCCUPANCY SENSORS ARE SHOWN IN A COMMON ROOM OR CORRIDOR, WIRE SENSORS IN PARALLEL FOR COMMON ZONE CONTROL.
- LIGHTING LEVELS ARE TO BE MAINTAINED (I.E. NO LESS THAN CURRENT FC LEVELS) DURING CONSTRUCTION. IF A NEW LIGHTING FIXTURE LOCATION VS EXISTING LIGHTING FIXTURE LOCATION CONFLICT OCCURS, LOCATE NEW LIGHTING FIXTURE AS INDICATED ON NEW WORK PLANS. REMOVAL AND REPLACEMENT OF THAT SPECIFIC FIXTURE SHALL BE DONE AFTER NORMAL BUSINESS HOURS TO ENSURE MAINTAINED FC LEVELS DURING NORMAL BUSINESS HOURS. UTILIZE EXISTING CIRCUITRY FOR THAT PARTICULAR LIGHT UNTIL NEW CIRCUITRY IS INSTALLED. CIRCUITRY SWITCHOVER SHALL BE DONE AFTER NORMAL WORKING HOURS TO ENSURE MAINTAINED FC LEVELS DURING NORMAL BUSINESS HOURS.

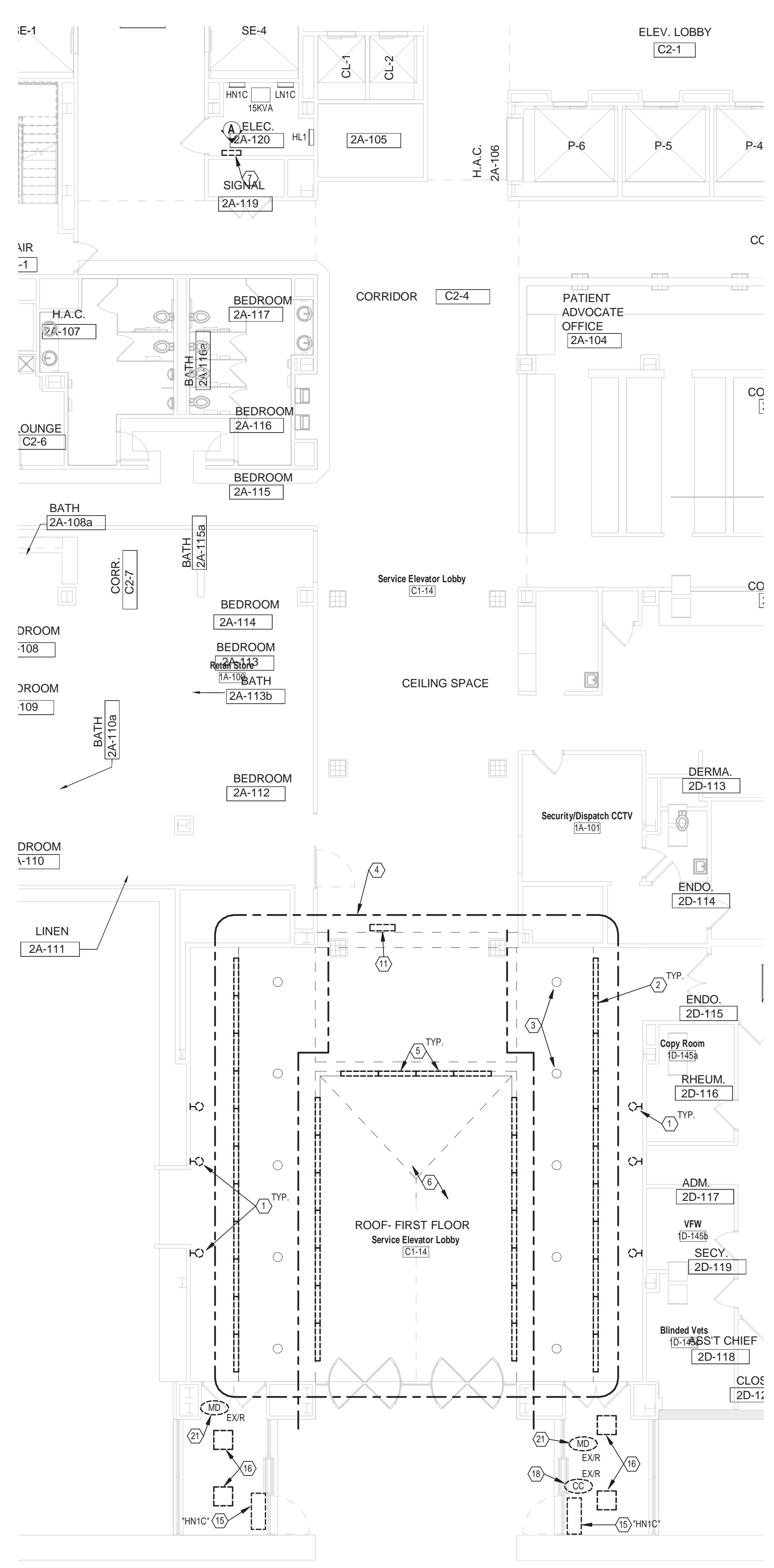
## NOTES

- REMOVE LIGHTING FIXTURE AND CIRCUITRY BACK TO SOURCE. MAINTAIN HOME RUN CIRCUIT.
- REPLACE SWITCHES WITH NEW. CONNECT SWITCHES TO NEW LIGHTING FIXTURES.
- PROVIDE NEW 277V-20A/1P BREAKER IN EXISTING NORMAL POWER PANEL (AS INDICATED) FOR NEW WORK. UPDATE PANEL INDEX CARD WITH PROPER DESCRIPTION OF LOAD.
- PROVIDE NEW 277V-20A/1P BREAKER IN EXISTING EMERGENCY POWER PANEL (AS INDICATED) FOR NEW WORK. UPDATE PANEL INDEX CARD WITH PROPER DESCRIPTION OF LOAD.

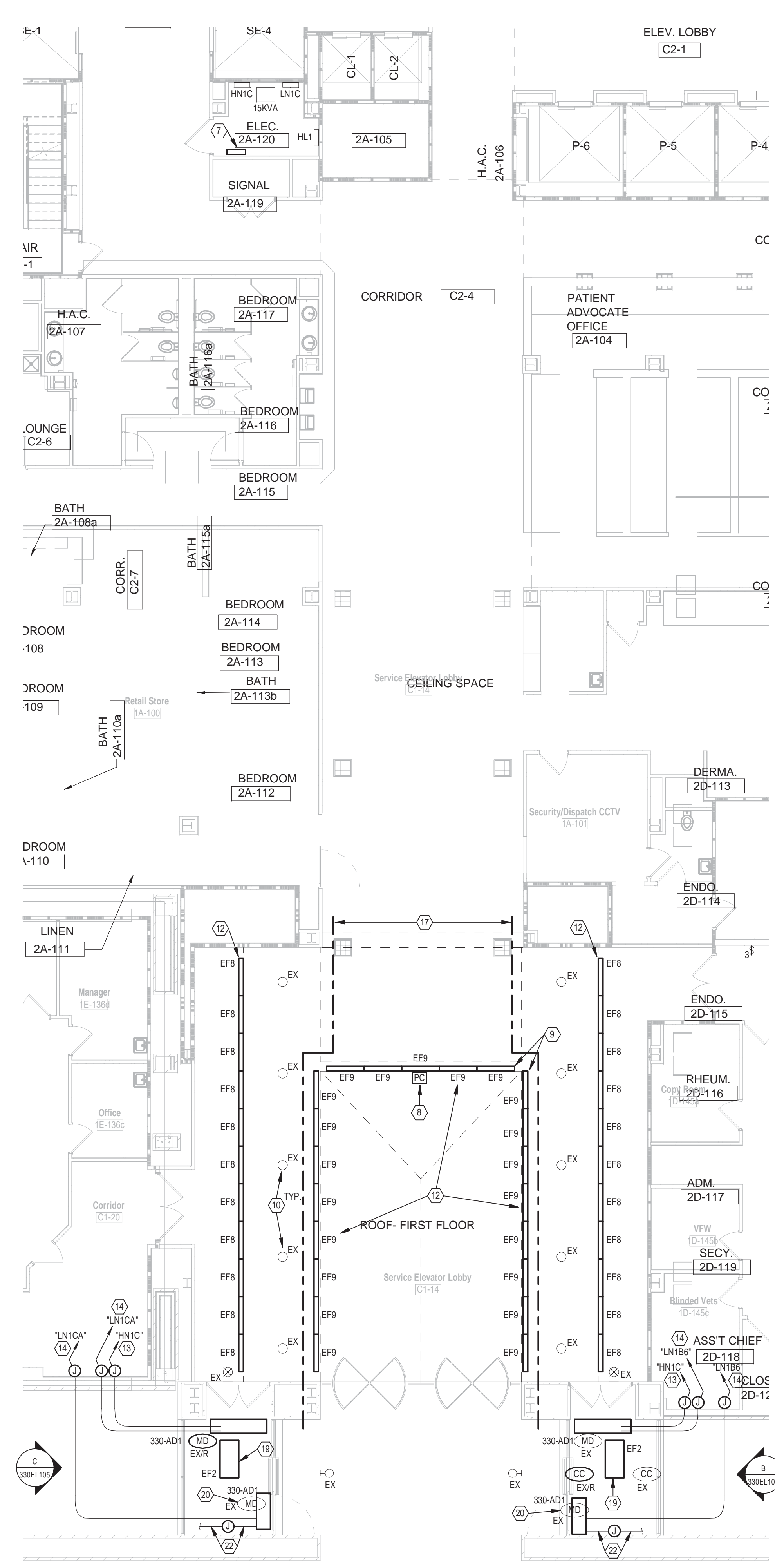
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three inches = one foot  
one and one-half inches = one foot  
one inch = one foot  
three-quarters inch = one foot  
one-half inch = one foot  
three-eighths inch = one foot  
one-quarter inch = one foot  
one-eighth inch = one foot



1 ENLARGED LOBBY - REMOVAL - LIGHTING & POWER  
SCALE: 1/8" = 1'-0"



2 ENLARGED LOBBY - NEW WORK - LIGHTING & POWER  
SCALE: 1/8" = 1'-0"



A SITE PHOTOGRAPH  
Scale: 12" = 1'-0"



B SITE PHOTOGRAPH  
Scale: 12" = 1'-0"



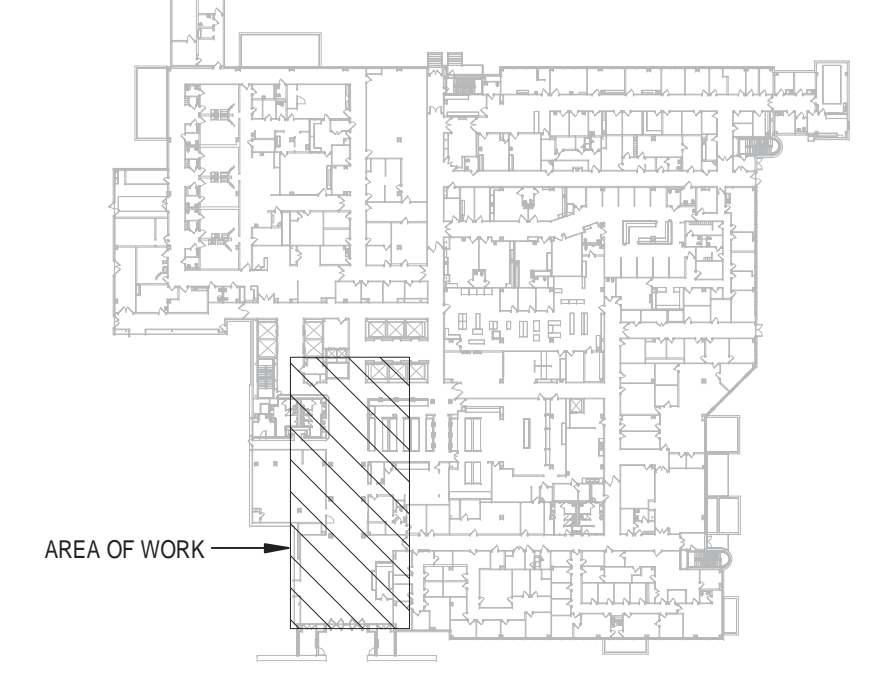
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Scale: 12" = 1'-0"

## GENERAL NOTES

- REFER TO SHEET E001 FOR SYMBOL IDENTIFICATION AND SHEET E501 FOR LIGHTING FIXTURE DESCRIPTIONS.
- WHERE SWITCHES ARE SHOWN IN SPACES CONTROLLED BY OCCUPANCY SENSORS, WIRE SENSORS RELAY PACK AHEAD OF LOCAL SWITCHING (EXCEPT LIFE SAFETY CIRCUITS).
- PROVIDE DEDICATED NEUTRAL FOR ALL 120V CIRCUITS.
- COORDINATE ALL LIGHTING FIXTURE LOCATIONS WITH ARCHITECTURAL REFLECTED CEILING PLANS.
- REFER TO SEQUENCE OF CONSTRUCTION GENERAL NOTE SHEET E001.
- COORDINATE OCCUPANCY SENSOR AIMING AND PLACEMENT WITH MANUFACTURER PRIOR TO INSTALLATION.
- WIRE ALL EXT. SIGNS AHEAD OF LOCAL SWITCHING.
- CONTRACTOR SHALL INSTALL ELECTRICAL CONDUIT/FEEDERS TIGHT TO STRUCTURE TO ALLOW FOR REQUIRED CLEARANCES AROUND OTHER TRADES ABOVE CEILING EQUIPMENT.
- PROVIDE PROGRAMMED RAPID START BALLASTS FOR ALL FLUORESCENT FIXTURES AND SUBMIT BALLAST INFORMATION DURING SHOP DRAWING REVIEW.
- (1) EACH BRANCH CIRCUIT HOMERUN SHALL HAVE NO MORE THAN THREE CIRCUITS. EACH BRANCH CIRCUIT SHALL HAVE A SEPARATE NEUTRAL AND COMMON/SHARED GREEN INSULATED EQUIPMENT GROUNDING CONDUCTOR.
- INCLUDE ALL WORK NECESSARY TO ACCOMMODATE PHASING. REFER TO ARCHITECTURAL DRAWINGS AND GENERAL REQUIREMENTS SECTION 01 00 00.
- REFER TO ARCHITECTURAL DRAWINGS FOR RATED WALL LOCATIONS.
- PROVIDE PRINTED LABELS ON ALL RECEPTACLE AND SWITCH COVERS/PLATES INDICATING PANEL AND CIRCUIT NUMBER.
- WHERE MULTIPLE OCCUPANCY SENSORS ARE SHOWN IN A COMMON ROOM OR CORRIDOR, WIRE SENSORS IN PARALLEL FOR COMMON ZONE CONTROL.
- CONSTRUCTION WITHIN MAIN LOBBY IS ONLY PERMITTED DURING WEEKEND HOURS (6PM FRIDAY THRU 5AM MONDAY) AND SHALL BE BROKEN UP INTO THIRDS AS REPRESENTED ON FLOOR PLANS VIA POLYLINE. PROVIDE SEPARATION BETWEEN EXISTING LOBBY BEING MAINTAINED AND CONSTRUCTION ZONE.

## NOTES

- REMOVE EXISTING WALL MOUNTED WALL SCONCE(S). DISCONNECT EXISTING CIRCUIT FROM BREAKER (HNIC-17) AND ABANDON CONDUIT IN PLACE. REMOVE EXISTING BOX AND WIRE. TAG CONDUIT AS "EXISTING LOBBY" WALL SCONCE CIRCUIT FOR REMOVAL UNDER FUTURE PROJECT.
- REMOVE EXISTING T12 COVE LIGHTING. MAINTAIN EXISTING CIRCUITRY FOR NEW WORK.
- EXISTING M.H. DOWNLIGHT TO REMAIN. REMOVE EXISTING 175 WATT LAMP AND ASSOCIATED BALLASTS LOCATED IN ELECTRIC ROOM 1A-110. REFER TO NEW WORK PLANS FOR ADDITIONAL INFORMATION.
- EXISTING NORMAL POWER LIGHTING CIRCUIT (HNIC-13&15) TO REMAIN FOR NEW WORK. UPDATE PANEL SCHEDULE TO READ "LOBBY DOWN LIGHTS, SKYLIGHT AND COVE LIGHTING".
- REMOVE EXISTING SKY LIGHT T12 LIGHTING. MAINTAIN EXISTING CIRCUITRY FOR NEW WORK.
- SKY LIGHT ABOVE.
- REMOVE EXISTING LOBBY H.I.D. BALLASTS AND LOCATE NEW BALLASTS IN SAME LOCATION.
- PROVIDE SURFACE MOUNTED, FIELD ADJUSTABLE, PHOTOCELL FOR ON/OFF CONTROL OF NEW LED SKYLIGHT LIGHTING FIXTURES. COORDINATE LIGHT LEVEL FIXTURE SHUT-OFF WITH ENERGY ENGINEER.
- ADJUST LIGHT SOURCE ON NEW LED FIXTURE(S) TO "WASH" OPPOSITE VERTICAL WALL AND SKY LIGHT.
- UTILIZE EXISTING H.I.D. DOWN LIGHT. PROVIDE NEW 100W M.H. VERTICAL LAMP AND BALLAST. UTILIZE ALL EXISTING CIRCUITRY AND CONTROL. BREAKER IN ELEC. ROOM. VERIFY EXACT LAMP TYPE WITH ENERGY ENGINEER PRIOR TO PURCHASE. LOCATE REMOTE BALLAST IN ELECTRIC ROOM. LAMP AND BALLAST SHALL BE ONE-FOR-ONE REPLACEMENT.
- REMOVE SKYLIGHT LIGHTING REMOTE BALLASTS LOCATED ABOVE CEILING IN THIS LOCATION.
- NEW LED LIGHTING TO BE CONCEALED WITHIN EXISTING COVE. ROTATE FIXTURE 90 DEGREES FOR HORIZONTAL LIGHT OUTPUT. COORDINATE WITH ENGINEER DURING CONSTRUCTION.
- PROVIDE NEW 480V/20A/3P BREAKER IN EXISTING PANEL (HNIC, LOCATED IN FIRST FLOOR ELEC. ROOM #1A-110) FOR NEW WORK. RUN 3-#12, 1412 GND. IN 0.75" C. CONTRACTOR IS ENCOURAGED TO FOLLOW EXISTING PATH OF CONDUIT TO GET FROM EXISTING ELECTRIC ROOM TO NEW AIR CURTAINS. UTILIZE RIGID CONDUIT WHEN RUNNING OUTSIDE AND TRANSITION TO EMT ONCE INSIDE.
- PROVIDE NEW 120V/20A/1P BREAKER IN EXISTING PANEL FOR NEW WORK. RUN 2-#12, 1412 GND. IN 0.75" C. CONTRACTOR IS ENCOURAGED TO FOLLOW EXISTING PATH OF CONDUIT TO GET FROM EXISTING ELECTRIC ROOM TO NEW AIR CURTAINS. UTILIZE RIGID CONDUIT WHEN RUNNING OUTSIDE AND TRANSITION TO EMT ONCE INSIDE.
- EXISTING RECESSED 2x4 FLUORESCENT TO BE REMOVED AND REPLACED WITH NEW. MAINTAIN ALL CIRCUITRY AND CONTROL FOR NEW WORK.
- REMOVE WORK WITHIN MAIN LOBBY INTO THIRDS. REFER TO ARCHITECTURAL SHEETS FOR ADDITIONAL DETAIL AND NOTES.
- REMOVE AND RELOCATE EXISTING SECURITY CAMERA AS INDICATED. EXTEND CABLES AS NECESSARY.
- CONNECT NEW 24" LIGHTING FIXTURE TO EXISTING CIRCUITRY MAINTAINED DURING REMOVAL PHASE. PROVIDE FLANGE KIT FOR HARD CEILING.
- EXISTING DOOR MOTION DETECTOR LOCATED AT TOP OF DOOR, BELOW AIR CURTAIN SHALL BE MAINTAINED.
- REMOVE AND RELOCATE EXISTING DOOR MOTION DETECTOR AS INDICATED. EXTEND CABLES AS NECESSARY. EXISTING AIR CURTAIN TO BE REMOVED BY DIVISION 23.
- UTILIZE EXISTING 480V/20A/3P BREAKER & CIRCUITRY FOR NEW WORK. INTERCEPT AND EXTEND TO NEW AIR CURTAIN. PROVIDE REQUIRED ELECTRICAL CONNECTION.



B330 - LOBBY - KEY PLAN  
Scale: 1" = 100'-0"

Revisions	Date	CONSULTANTS:	<b>Heapy Engineering</b> MEP Design Technology Planning Commissioning Energy <i>Nationally Recognized Leader in Sustainability</i> 1400 W Dorothy Lane, Dayton, OH 45409-1310 Ph 937-224-0861 Fax 937-224-5777 www.heapy.com Heapy Project No.: 2014-04014 Firm License No.: 01528		ARCHITECT/ENGINEERS:	<b>ASA</b> ALAN SCHERR ASSOCIATES 33 WEST FIRST STREET SUITE NUMBER 440 DAYTON, OHIO 45402 PH: 937-222-4585 FX: 937-222-4520	Drawing Title <b>BUILDING 330 - ENLARGED LOBBY - LIGHTING</b>	Project Title <b>EXPAND ENERGY CONSERVATION MEASURES</b>	Location <b>DAYTON, OHIO</b>	Date <b>02/27/2015</b>	Checked <b>MSG</b>	Drawn <b>JAS</b>	Project No. VA Project No. 552-16-205 Building Number <b>B330</b> Drawing Number <b>330EL105</b> Dwg. of	Office of Construction and Facilities Management Department of Veterans Affairs
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B408-PASSENGER ELEVATOR - NEW WORK - LTG

WHERE MULTIPLE OCCUPANCY SENSORS ARE SHOWN IN A COMMON ROOM CORRIDOR, WIRE SENSORS IN PARALLEL FOR COMMON ZONE.

WHEN SWITCHES ARE SHOWN IN SPACES CONTROLLED BY AN OCCUPANCY SENSOR, THE SWITCHES SHALL BE PACKAGED ON LOCAL SWITCHING (EXCEPT LIFE SAFETY CIRCUITS).

PROVIDE DEDICATED NEUTRAL FOR ALL 120V CIRCUITS.

NEUTRALIZATION LIGHTING SHALL BE PROVIDED FOR ALL ARCHITECTURAL RECESSED CEILING PLANS.

ALL RECESSED CEILING PLANS SHALL SUBMIT AN 18" SCALE FLOOR PLAN SHOWING PROPOSED LAYOUT WITH DEVICES CLEARLY IDENTIFIED DURING SHOP DRAWING REVIEW. OCCUPANCY SENSORS SHALL BE LOCATED AT LEAST 6' FROM ANY OTHER DEVICE AND BE REJECTED. REQUEST UNLESS OTHER FLOOR PLANS WELL IN ADVANCE OF MEETING. PROVIDE DETAIL FOR EACH TYPE OF DEVICE. ALL CEILINGS ARE 8'-0" UNLESS OTHERWISE NOTED.

COORDINATE OCCUPANCY SENSOR AIMING AND PLACING WITH ALL OTHER TRADES TO PREVENT INTERFERENCE.

WE HAVE ALL TEST SIGNS AHEAD OF LOCAL SWITCHING.

IF THERE IS A CHANGE IN THE NUMBER OF READERS TIGHT TO STRUCTURE TO ALLOW FOR REQUIRED CLEARANCES AROUND OTHER TRADES ABOVE CEILING EQUIPMENT.

FOR THE PROPOSED CHANGES, THE TESTS FOR ALL FLUORESCENT FIXTURES AND SUBMIT BALLAST INFORMATION FOR ALL NEW LIGHTING SHOWING THE FOLLOWING:

(1) EACH BRANCH CIRCUIT HOURS SHALL HAVE NO MORE THAN THREE CIRCUITS. EACH BRANCH CIRCUIT SHALL HAVE A SEPARATE GROUNDING CONDUCTOR.

(2) PROVIDE NECESSARY TO ACCOMMODATE PHASING. REFER TO ARCHITECTURAL DRAWINGS AND GENERAL REQUIREMENTS SECTION 01-00-00.

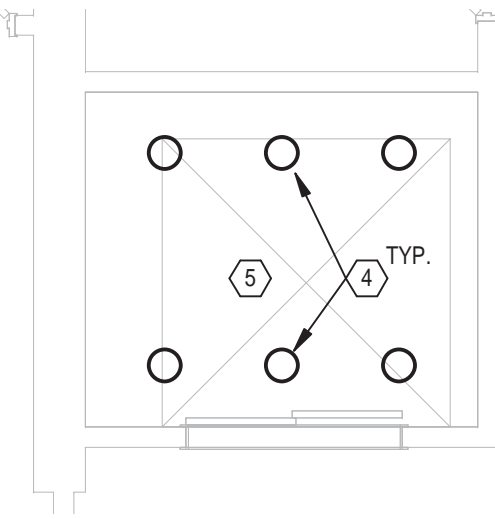
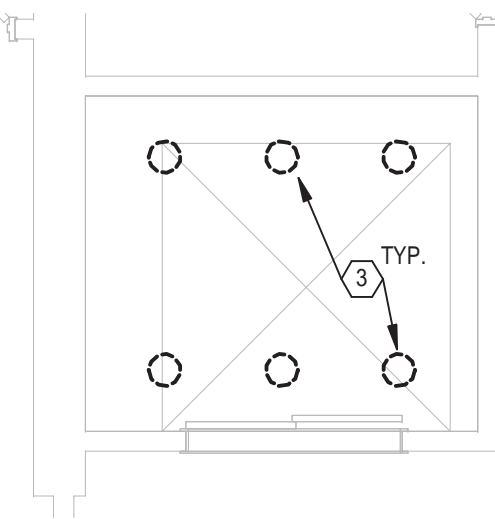
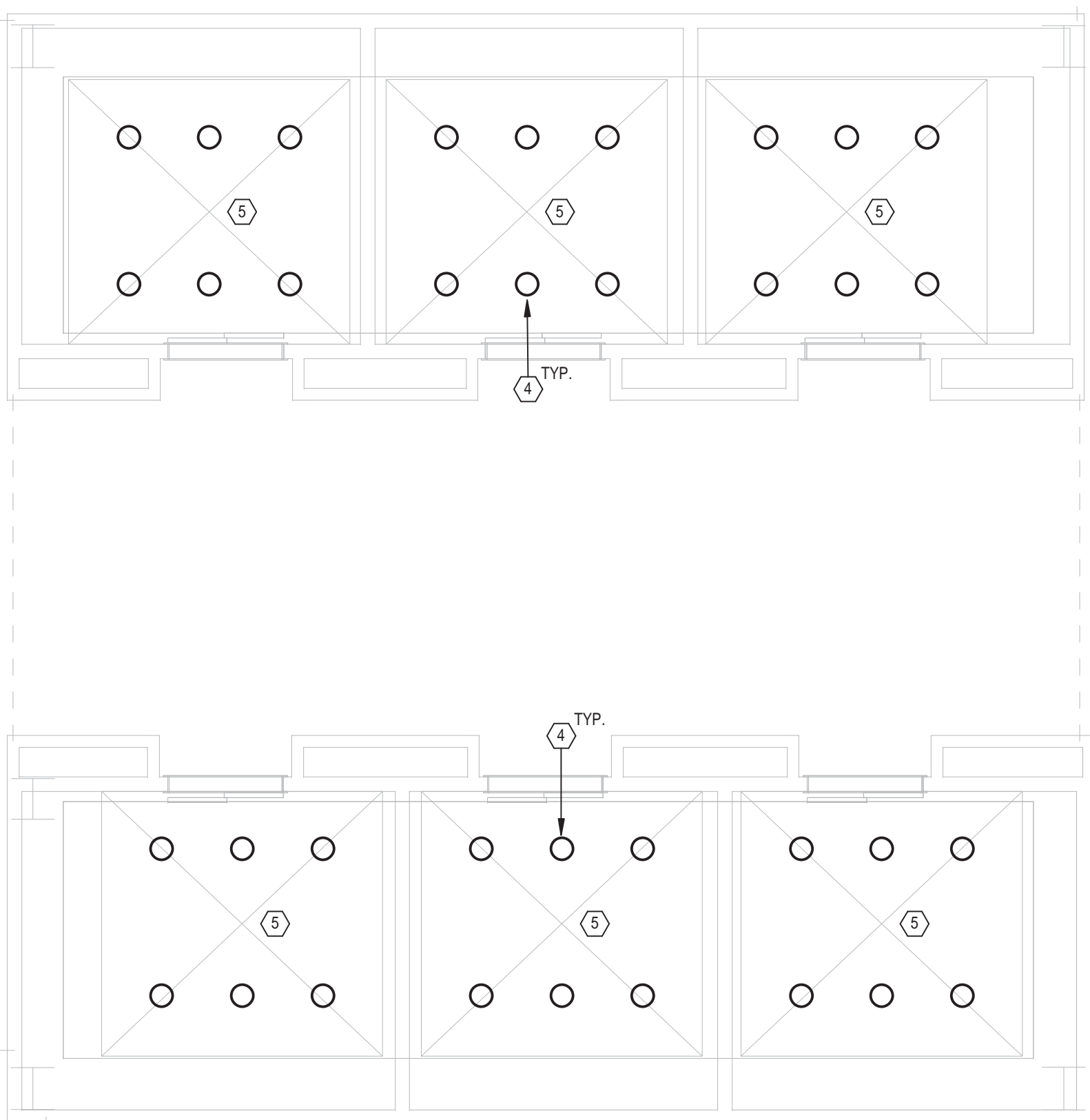
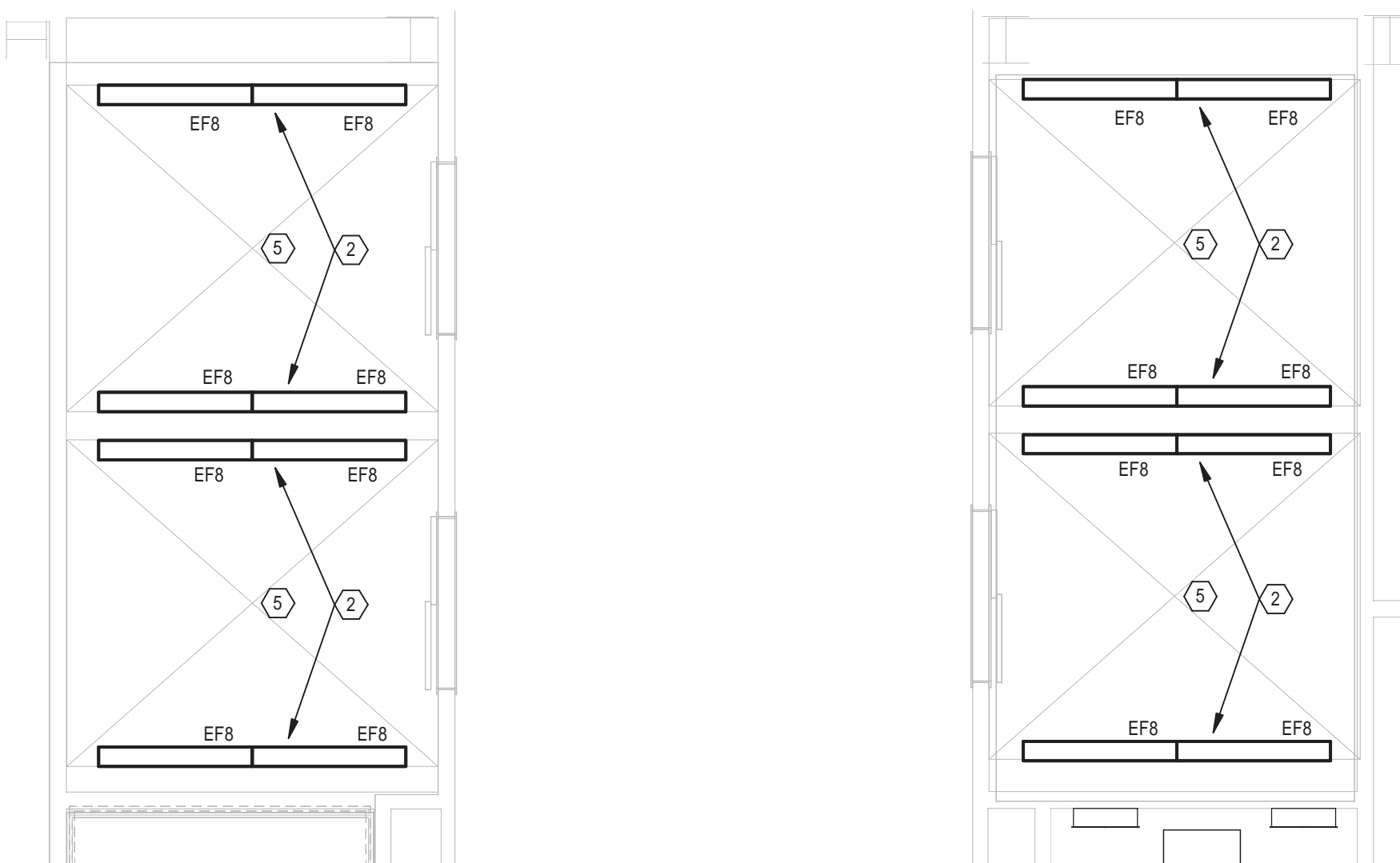
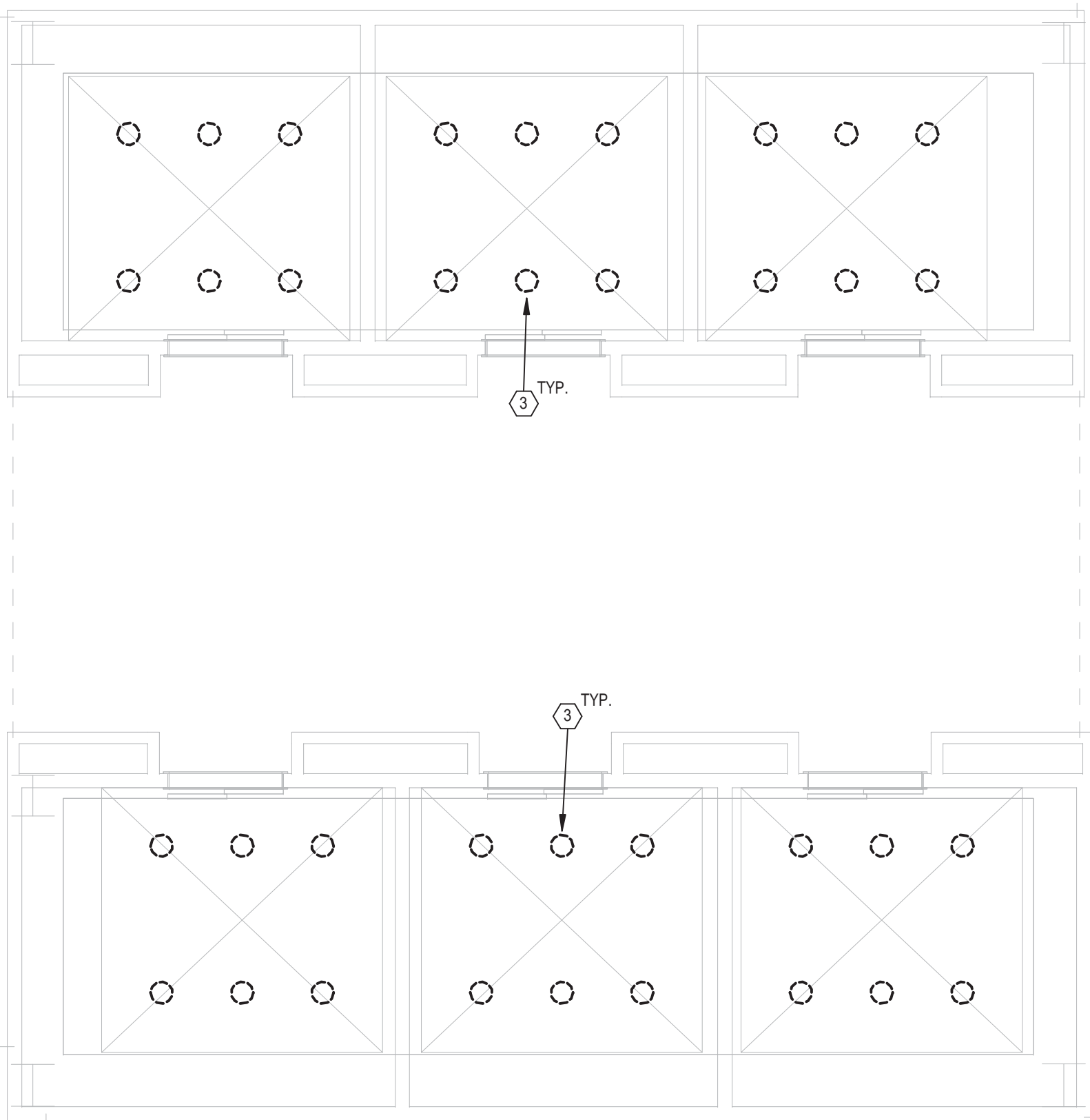
REFER TO ARCHITECTURAL DRAWINGS FOR RATED WALL LOCATION.

USE PRINTED LABELS ON ALL RECEPTACLE AND SWITCH COVERS/LABELS INDICATING PANEL AND CIRCUIT NUMBER.

REMOVE EXISTING BARE LAMP FIXTURE LOCATED ABOVE LENS IN ELEVATOR CAB. MAINTAIN EXISTING CIRCUITRY FOR NEW WORK. UTILIZE EXISTING CIRCUITRY MAINTAINED DURING REMOVAL PHASE FOR NEW WORK.

REMOVE EXISTING "SCREW IN INCANDESCENT LAMP. PROVIDE NEW LED INCANDESCENT "SCREW IN" REPLACEMENT LAMP.

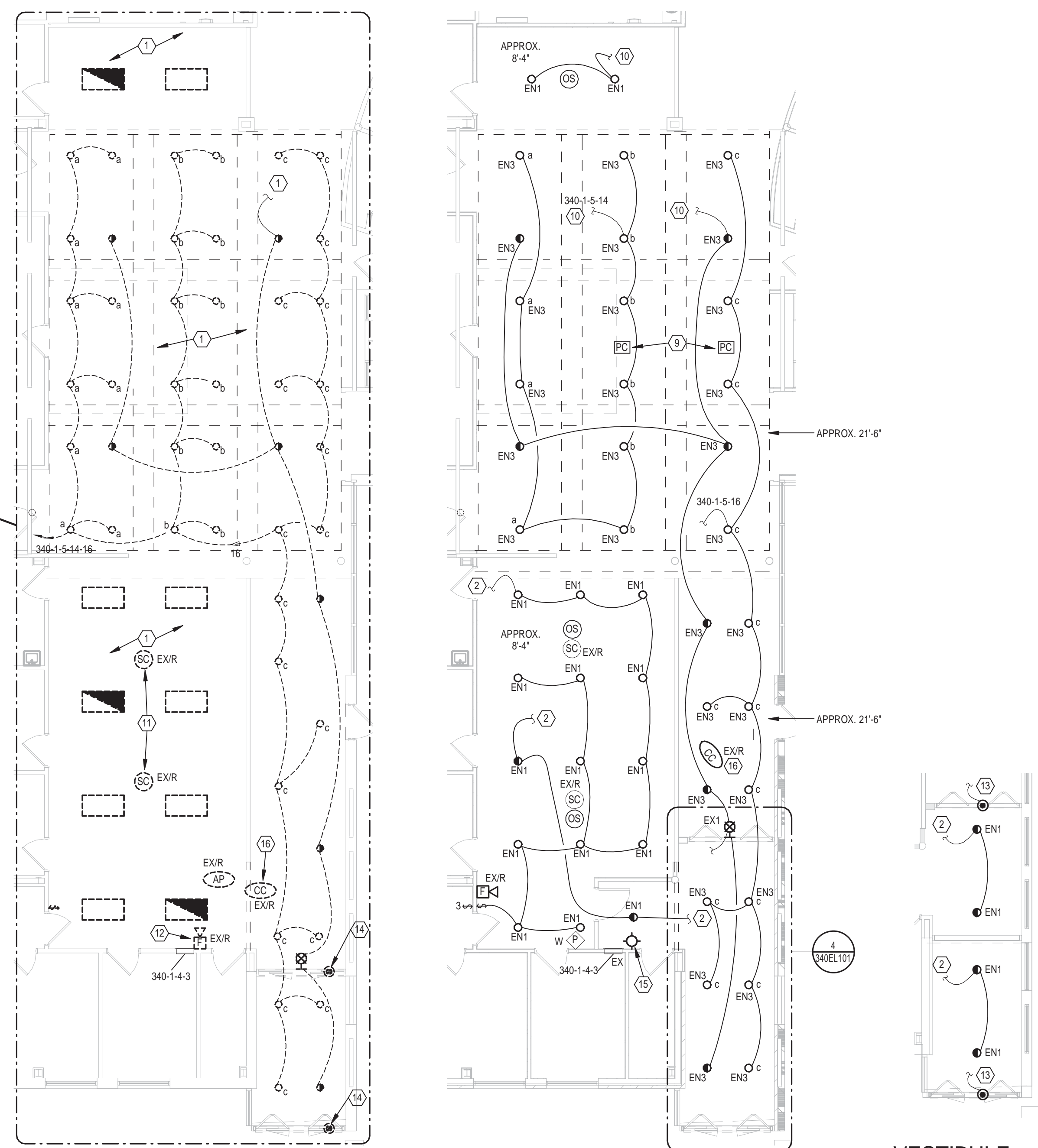
COORDINATE EXACT LAMP BASE, BULB TYPE, VOLTAGE AND LUMEN OUTPUT REQUIREMENTS WITH ENGINEER PRIOR TO ORDERING LIGHTING. UPGRADE WITHIN ELEVATORS SHALL BE DONE ONE AT A TIME. COORDINATE WITH COR. CONTRACTOR TO GET APPROVAL PRIOR TO STARTING NEXT ELEVATOR.



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## NOTES

1. REMOVE EXISTING CIRCUITRY AS NOTICED.
2. CONNECT TO EXISTING CIRCUITRY MAINTAINED DURING REMOVAL PHASE.
3. VERIFY REPRESENTATIVE SAMPLES OF WIRING CONFIGURATION. NEW OCCUPANCY SENSOR CONTROL SHALL MATCH EXISTING CONFIGURATION UNLESS OTHERWISE NOTED.
4. REMOVE EXISTING SWITCHING WITHIN NURSE STATION.
5. REMOVE EXISTING SWITCHING AND PROVIDE NEW SS COVERAGE OVER VOID SPACE. LIGHTING CONTROLLED VIA NEW OCCUPANCY SENSOR.
6. REMOVE EXISTING WIRING TO THE CIRCUITRY. REMOVE EXISTING WIRING VOID PHASE, REMOVE EXISTING CIRCUITRY TO REMAIN. #1, #2 & #3 ALL SEPARATELY.
7. REMOVE EXISTING WIRING TO THE CIRCUITRY. REMOVE EXISTING WIRING VOID PHASE, REMOVE EXISTING CIRCUITRY TO REMAIN. #4, #5 & #6 ALL SEPARATELY.
8. REMOVE EXISTING WIRING AND LIGHTING. REMOVE EXISTING. NO NEW WIRING IN THIS AREA.
9. REMOVE EXISTING ADJUSTABLE DAYLIGHT HARVESTING AUTOMATIC DIMMING CONTROL. PHOTO CELL SENSOR TO DIM NEW LED LIGHTING WITHIN CLUSTER. COORDINATE LIGHT LEVEL SETPOINT WITH ENGINEER.
10. REMOVE EXISTING RUN IN GENERAL AREA. REMOVE EXISTING WIRING IN GENERAL AREA AS INDICATED.
11. MAINTAIN PAGING WIRING TEMPORARILY. SPOKE SPEAKER FROM STRUCTURE TO STRUCTURE. MAINTAIN REINSTATEL IN GENERAL AREA AS BEFORE.
12. MAINTAIN SPEAKER/STROBE TO BE REMOVED AND RELOCATED. MAINTAIN REINSTATEL IN GENERAL AREA AS BEFORE.
13. EXISTING AUTO-DRY VOLTAGE IS UNDOCUMENTED. CONTRACTOR TO VERIFY SOURCE/VOLTAGE PRIOR TO ORDERING NEW. MATCH EXISTING AND EXTEND TO NEW. VERIFY AND DOCUMENT. NEW VOLTAGE TO BE 240V. NEW WIRING RUN. RUN 242. 1412 RUN. IN 0.75". FOR NEW LIFE SAFETY CIRCUITRY. EXTEND EXISTING SAFETY.
14. REMOVE EXISTING CIRCUITRY. EXISTING AUTO-DRY TO ALLOW FOR REMOVAL. MAINTAIN ALL SYSTEMS CIRCUITRY (SPEAKER, POWER, ETC.) FOR NEW.
15. CONNECT TO EXISTING FIRE ALARM NOTIFICATION CIRCUIT PRESENTLY SERVING THIS AREA. MATCH EXISTING FIRE ALARM MANIPULATOR EQUIPMENT.
16. REMOVE EXISTING CAMERA. MAINTAIN CAMERA. MAINTAIN ALL CABLES FOR NEW WORK. EXTEND AS NECESSARY.

VESTIBULE  
NEW WORK - LTG  
SCALE: 1/8" = 1'-0"

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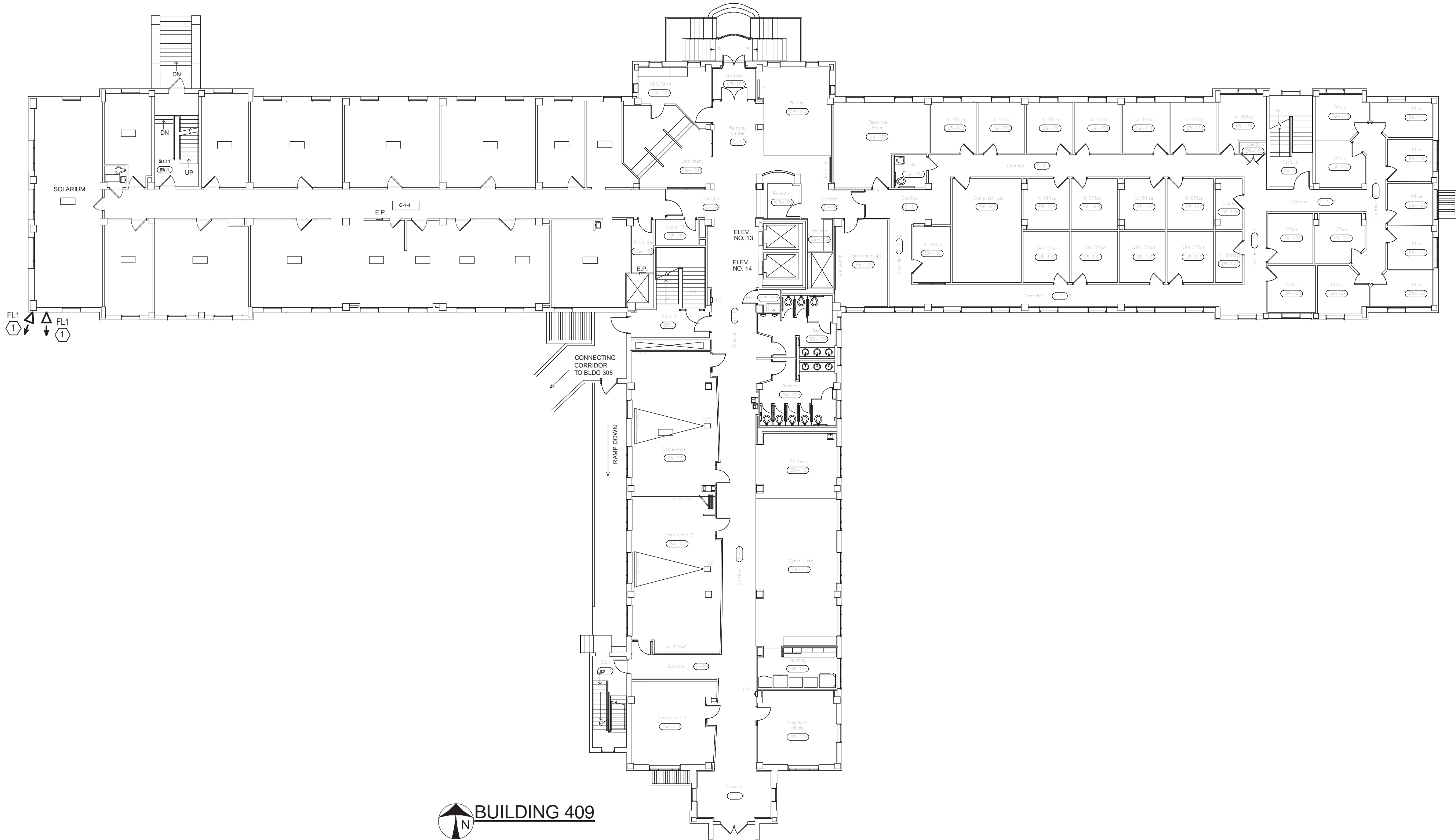
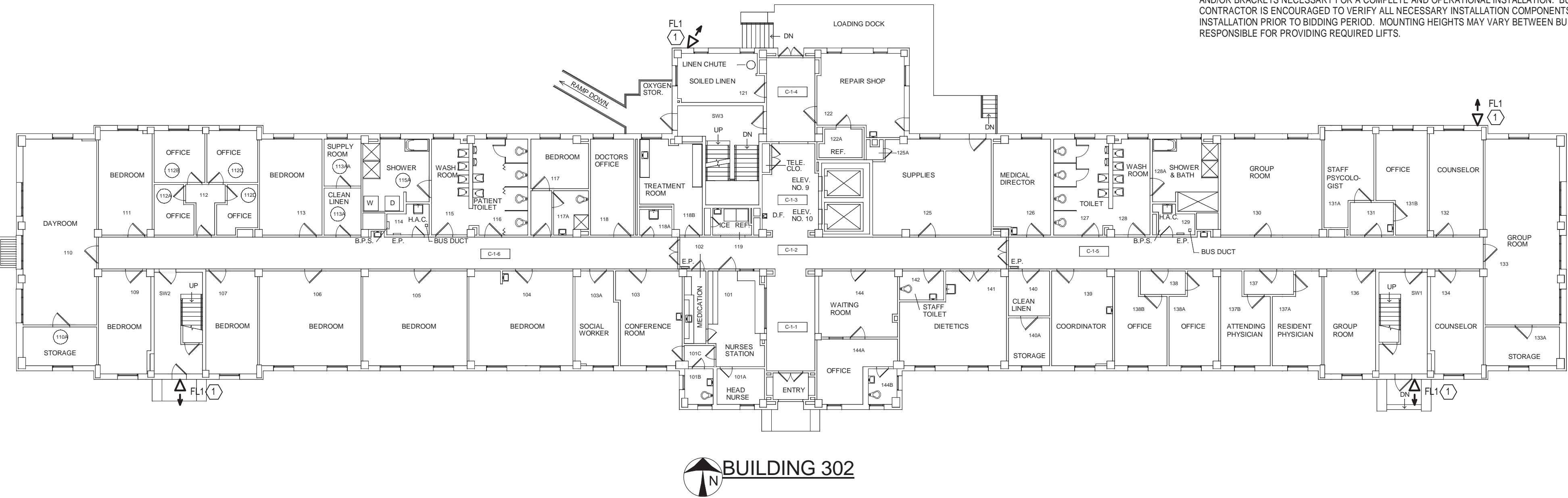
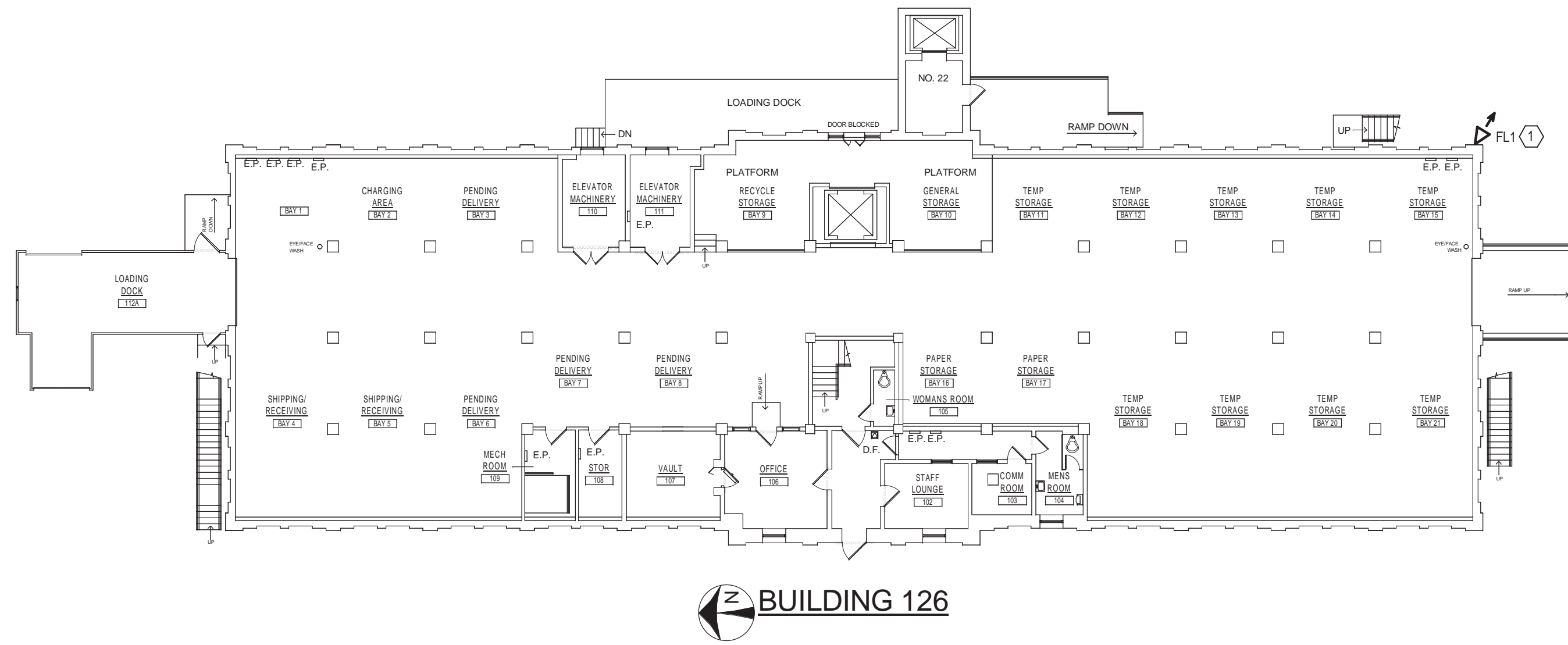




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one-half inch = one foot  
three-eighths inch = one foot  
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one-eighth inch = one foot

NOTES

1. EXISTING HID BUILDING MOUNTED FLOOD LIGHT TO BE REMOVED AND REPLACED WITH NEW LED TYPE. EXISTING CIRCUITRY SHALL BE MAINTAINED AND REUSED FOR NEW WORK. PROVIDE ALL REQUIRED MOUNTING HARDWARE AND/OR BRACKETS NECESSARY FOR A COMPLETE AND OPERATIONAL INSTALLATION. BUILDING SURFACES MAY VARY. CONTRACTOR IS ENCOURAGED TO VERIFY ALL NECESSARY INSTALLATION COMPONENTS REQUIRED FOR A PROPER INSTALLATION PRIOR TO BIDDING PERIOD. MOUNTING HEIGHTS MAY VARY BETWEEN BUILDINGS. CONTRACTOR IS RESPONSIBLE FOR PROVIDING REQUIRED LIFTS.

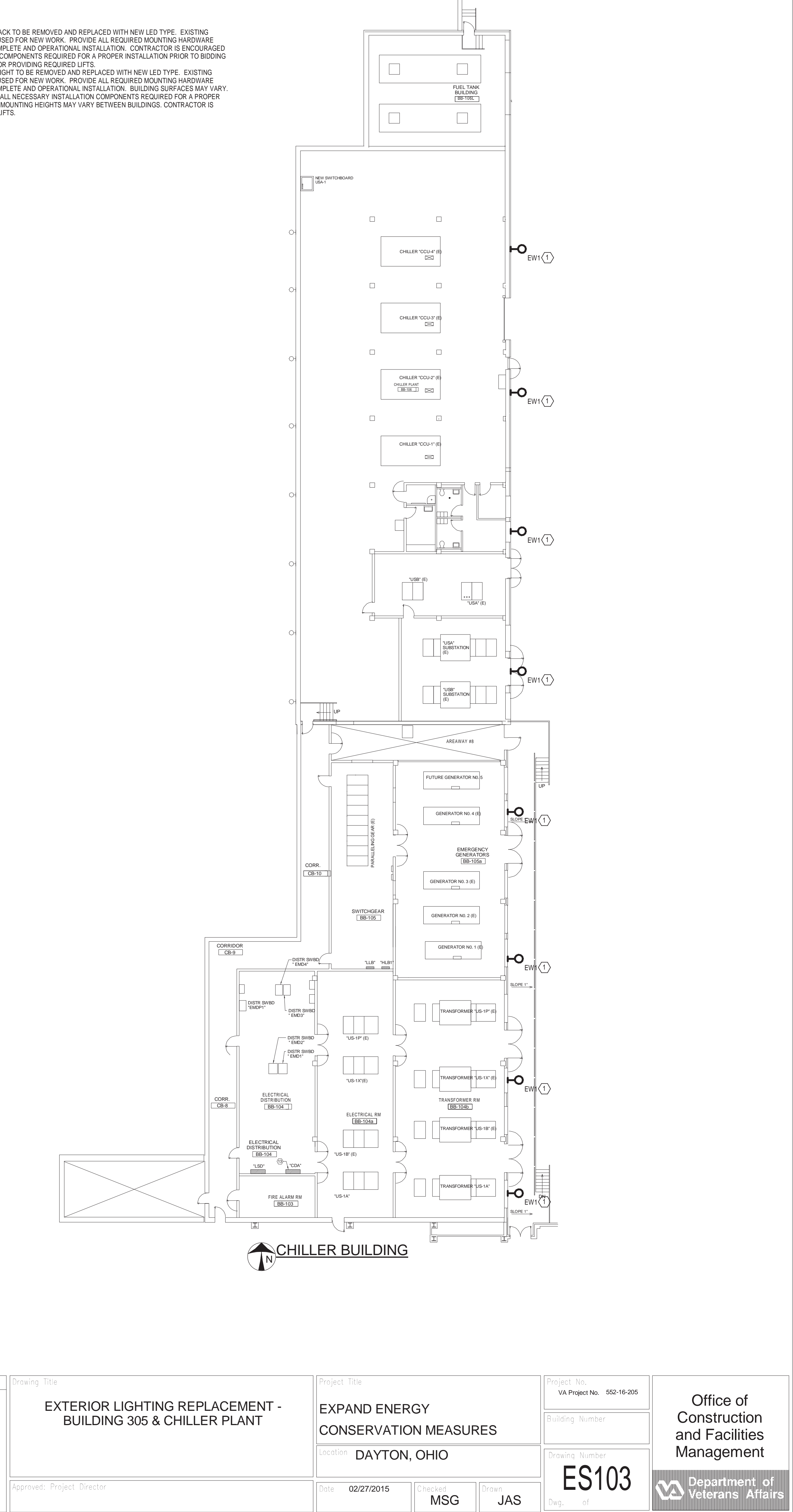
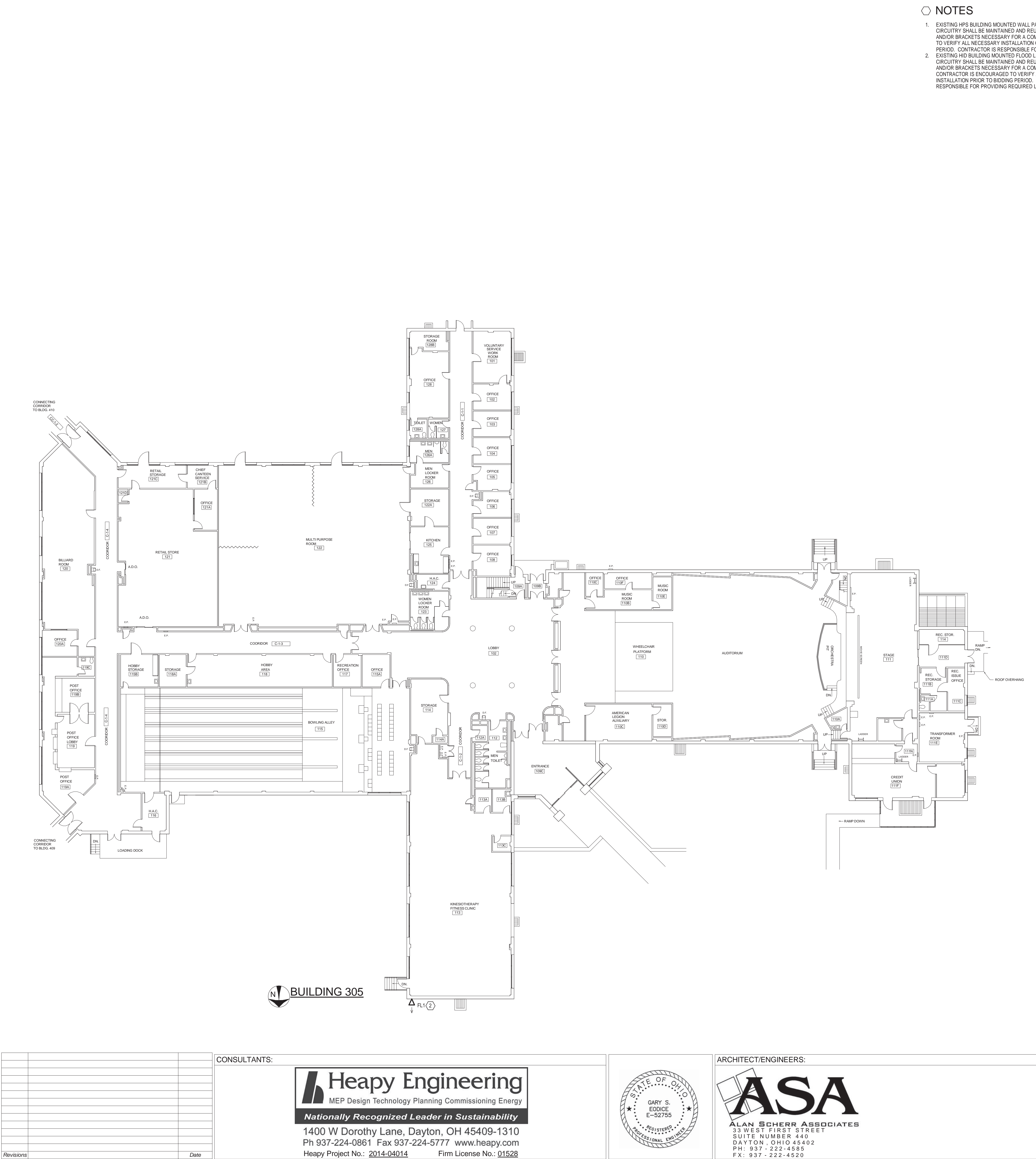


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one and one-half inches = one foot  
one inch = one foot  
three-quarters inch = one foot  
one-half inch = one foot  
three-eighths inch = one foot  
one-quarter inch = one foot  
one-eighth inch = one foot

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- NOTES
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CONSULTANTS:

**Heapy Engineering**  
MEP Design Technology Planning Commissioning Energy  
Nationally Recognized Leader in Sustainability  
1400 W Dorothy Lane, Dayton, OH 45409-1310  
Ph 937-224-0861 Fax 937-224-5777 www.heapy.com  
Heapy Project No.: 2014-04014 Firm License No.: 01528



ARCHITECT/ENGINEERS:

**ASA**  
ALAN SCHERR ASSOCIATES  
33 WEST FIRST STREET  
SUITE NUMBER 440  
DAYTON, OHIO 45402  
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FX: 937-222-4520

Drawing Title

EXTERIOR LIGHTING REPLACEMENT -  
BUILDING 305 & CHILLER PLANT

Approved: Project Director

Project Title

EXPAND ENERGY  
CONSERVATION MEASURES

Location DAYTON, OHIO

Date 02/27/2015

Checked MSG

Drawn JAS

Project No.  
VA Project No. 552-16-205

Building Number

Drawing Number  
**ES103**

Dwg. of

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Construction  
and Facilities  
Management

Department of  
Veterans Affairs





SCALE: 1" = 40'-0"

SCALE: 1" = 40'-0"

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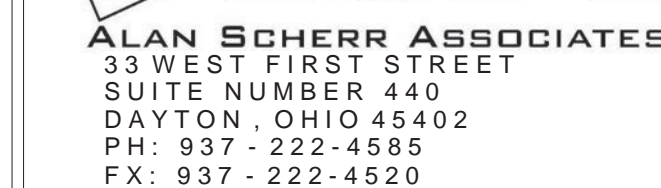
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Date 02/27/2015	Checked MSG	Drawn JAS	


Project Title

**EXPAND ENERGY  
CONSERVATION MEASURES**

Location	DAYTON, OHIO
----------	--------------

Date 02/27/2015

Office of  
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Management

 Department of  
Veterans Affairs

Office of  
Construction  
and Facilities  
Management

