

ELECTRICAL — EBC COMPLIANCE				
ADDITION — NEW CONSTRUCTION STANDARD (EBC Chapter 11)				
Section	Subject	Requirements	Applies?	Compliance
EBC §1108.5 / §308.1	COMPLIANCE OF NEW ELECTRICAL SYSTEMS	ALL NEW ELECTRICAL SYSTEMS SERVING THE ADDITION SHALL COMPLY WITH THE NYC ELECTRICAL CODE AS NEW CONSTRUCTION.	Y	COMPLIES. NEW ELECTRICAL DISTRIBUTION, PANELS, FEEDERS, AND BRANCH CIRCUITRY FOR 4TH AND 5TH FLOORS DESIGNED TO NYC ELECTRICAL CODE AS NEW CONSTRUCTION.
EBC §308.1	NEW ELECTRICAL SERVICE	ADDITION ADDS 32,000 SF GROUP B OFFICE, TWO NEW ELEVATORS, NEW HVAC LOADS, RELOCATED COOLING TOWER, AND LIKELY NEW FIRE PUMP. EXISTING ELECTRICAL SERVICE SHALL BE EVALUATED FOR CAPACITY; NEW OR UPGRADED SERVICE SHALL COMPLY WITH NYC ELECTRICAL CODE.	Y	COMPLIES. NEW OR UPGRADED ELECTRICAL SERVICE AND MAIN DISTRIBUTION PROVIDED FOR THE ADDITION TO ACCOMMODATE NEW LOADS.
EBC §308.4 / §308.3.1	EMERGENCY AND STANDBY POWER	WHERE A NEW FIRE PUMP IS REQUIRED, IT SHALL BE SERVED BY AN EMERGENCY POWER SYSTEM. OPTIONAL STANDBY SYSTEM LOADS PER NYC BC §2702.4. WHERE NATURAL GAS FUELS AN OPTIONAL STANDBY SYSTEM SUPPLYING EMERGENCY OR STANDBY LOADS, GAS SUPPLY SHALL BE TAKEN AHEAD OF THE MAIN WITH A DEDICATED OUTSIDE CUT-OFF VALVE PER NYC FUEL GAS CODE APPENDIX E §E.6.	Y	COMPLIES. NEW EMERGENCY POWER SYSTEM (GENERATOR) PROVIDED TO SERVE THE NEW FIRE PUMP. STANDBY LOADS AND GAS SUPPLY DESIGN PER NYC BC §2702.4 AND NYC FGC APPENDIX E §E.6.
EBC §1107.1 / NYC ECC	LIGHTING CONTROLS	LIGHTING CONTROLS FOR THE ADDITION SHALL COMPLY WITH THE NYC ENERGY CONSERVATION CODE AS NEW CONSTRUCTION.	Y	COMPLIES. LIGHTING CONTROLS FOR ADDITION FLOORS AND COMMON AREAS DESIGNED PER NYC ECC AS NEW CONSTRUCTION.
EXISTING BUILDING — ALTERATION LEVEL 1 (EBC Chapter 8)				
Section	Subject	Requirements	Applies?	Compliance
EBC §808.1	NEW ELECTRICAL INSTALLATIONS IN WORK AREA	ALL NEW ELECTRICAL INSTALLATIONS WITHIN THE LEVEL 1 ALTERATION WORK AREA SHALL COMPLY WITH THE NYC ELECTRICAL CODE.	Y	COMPLIES. NEW ELECTRICAL INSTALLATIONS FOR 1ST FLOOR LOBBY, NEW ELEVATOR CONNECTIONS, AND STAIR MODIFICATIONS COMPLY WITH NYC ELECTRICAL CODE.
EBC §808.2	DEFECTIVE WIRING	MANDATORY UPGRADE OF EXISTING DEFECTIVE WIRING APPLIES ONLY TO GROUPS A-1, A-2, A-5, H, AND I. GROUP M IS NOT INCLUDED; EXISTING WIRING IS NOT REQUIRED TO BE CORRECTED UNLESS IT PRESENTS IMMINENT DANGER.	N	DOES NOT APPLY. EXISTING BUILDING OCCUPANCY IS GROUP M (DEPARTMENT STORE), WHICH IS NOT LISTED IN §808.2. EXISTING WIRING NOT REQUIRED TO BE UPGRADED ABSENT IMMINENT DANGER.
EBC §908.1.1	75% THRESHOLD FOR FULL ELECTRICAL UPGRADE	WHERE THE WORK AREA EXCEEDS 75% OF THE BUILDING, THE ENTIRE ELECTRICAL SYSTEM SHALL COMPLY WITH NYC ELECTRICAL CODE AS NEW CONSTRUCTION.	N	DOES NOT APPLY. LEVEL 1 ALTERATION WORK AREA IS A SMALL FRACTION OF THE BUILDING. 75% THRESHOLD NOT MET.

ELECTRICAL SYMBOLS LIST

	20A SPST WALL MOUNTED SWITCH "a" DENOTES LIGHTING FIXTURE CONTROLLED.
	20A 3-WAY WALL MOUNTED SWITCH U.N.O. "a" DENOTES LIGHTING FIXTURE CONTROLLED
	CEILING OCCUPANCY SENSOR, NUMBER INDICATES TYPE; SET FOR AUTO "ON" AUTO "OFF" AND 15 MINUTES TIME DELAY AND MAXIMUM SENSITIVITY.
	DUPLEX PUMP. NUMBER INDICATES HP RATING OF PUMP.
	AC INDOOR UNIT MOTOR AS NOTED WITH LIQUID TIGHT FLEXIBLE CONNECTION WITH JUNCTION BOX AND MOTOR SWITCH.
	AC OUTDOOR UNIT MOTOR AS NOTED WITH CONTROLLER AND DISCONNECT SWITCH WITH WEATHER PROOF.
	DUPLEX RECEPTACLE, +18" AFF OR AS NOTED.
	JUNCTION BOX WITH BLANK COVER PLATE, CEILING MOUNTED.

ARCHITECT :

MEP ENGINEER :

STRUCTURAL ENGINEER :

PROJECT:

EBC CASE STUDY 02

DEPARTMENT STORE

DOB NOW JOB NUMBER:

DOB APPROVAL STAMP:

2026.08.14SUBMIT FOR DOB REVIEW

2026.07.21SUBMIT FOR DOB REVIEW

2026.06.16SUBMIT FOR DOB REVIEW

2026.06.02SUBMIT FOR DOB REVIEW

2026.05.26SUBMIT FOR DOB REVIEW

DRAWING TITLE:

ELECTRICAL
CODE ANALYSIS

PROJECT #:

DRAWN BY:

SHEET TITLE :

E-001.00

FOR EBC TRAINING PURPOSES ONLY

ENERGY SUBMISSION AND SPECIAL INSPECTIONS ARE
REQUIRED BUT NOT SHOWN FOR EBC TRAINING
PURPOSES.

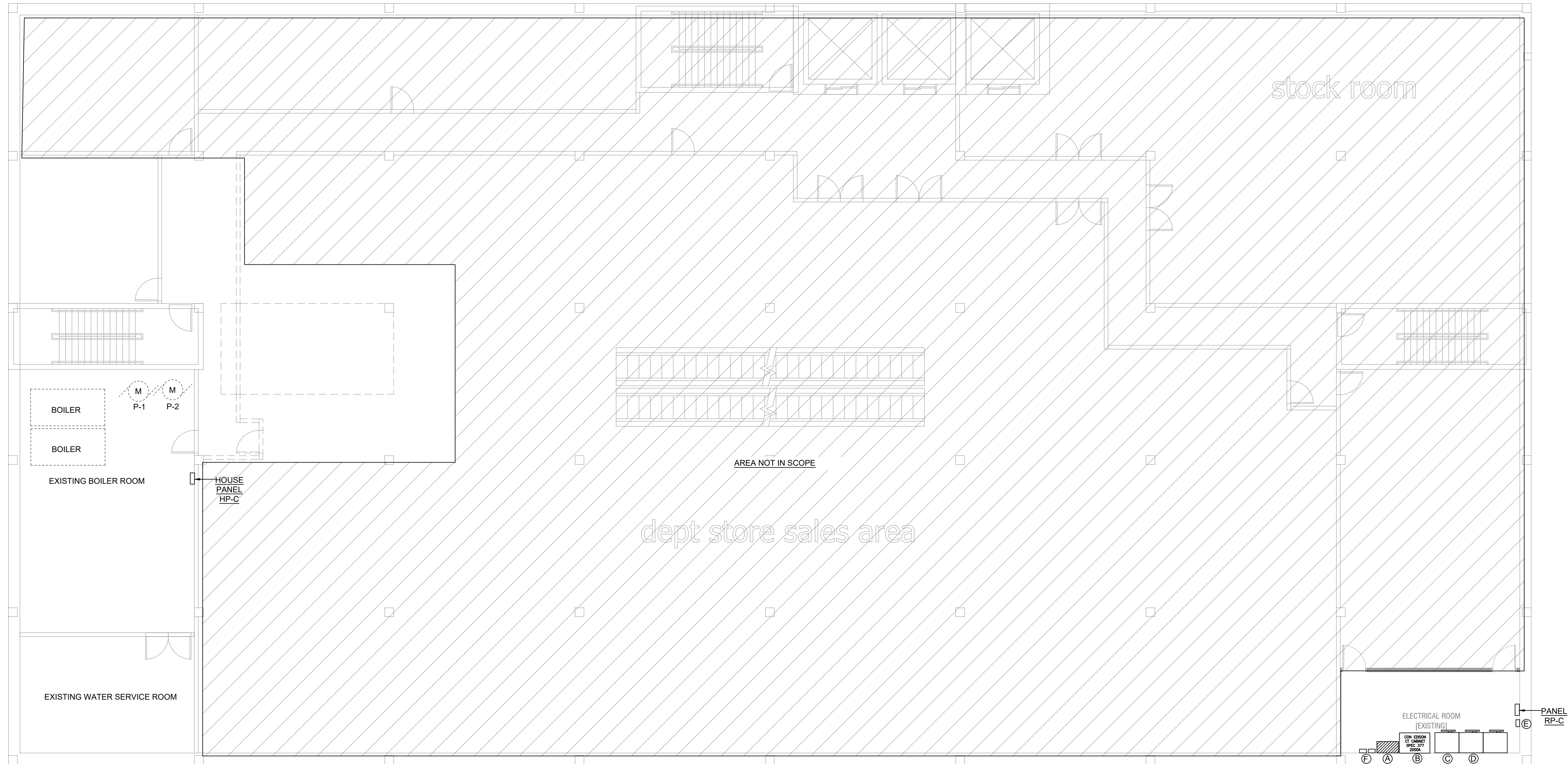
EBC CASE STUDY 02

DEPARTMENT STORE

2026.08.14	SUBMIT FOR DOB REVIEW
2026.07.21	SUBMIT FOR DOB REVIEW
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2026.06.02	SUBMIT FOR DOB REVIEW
2026.05.26	SUBMIT FOR DOB REVIEW

ELECTRICAL
CELLAR DEMOLITION PLAN

E-100.00



KEY NOTES:

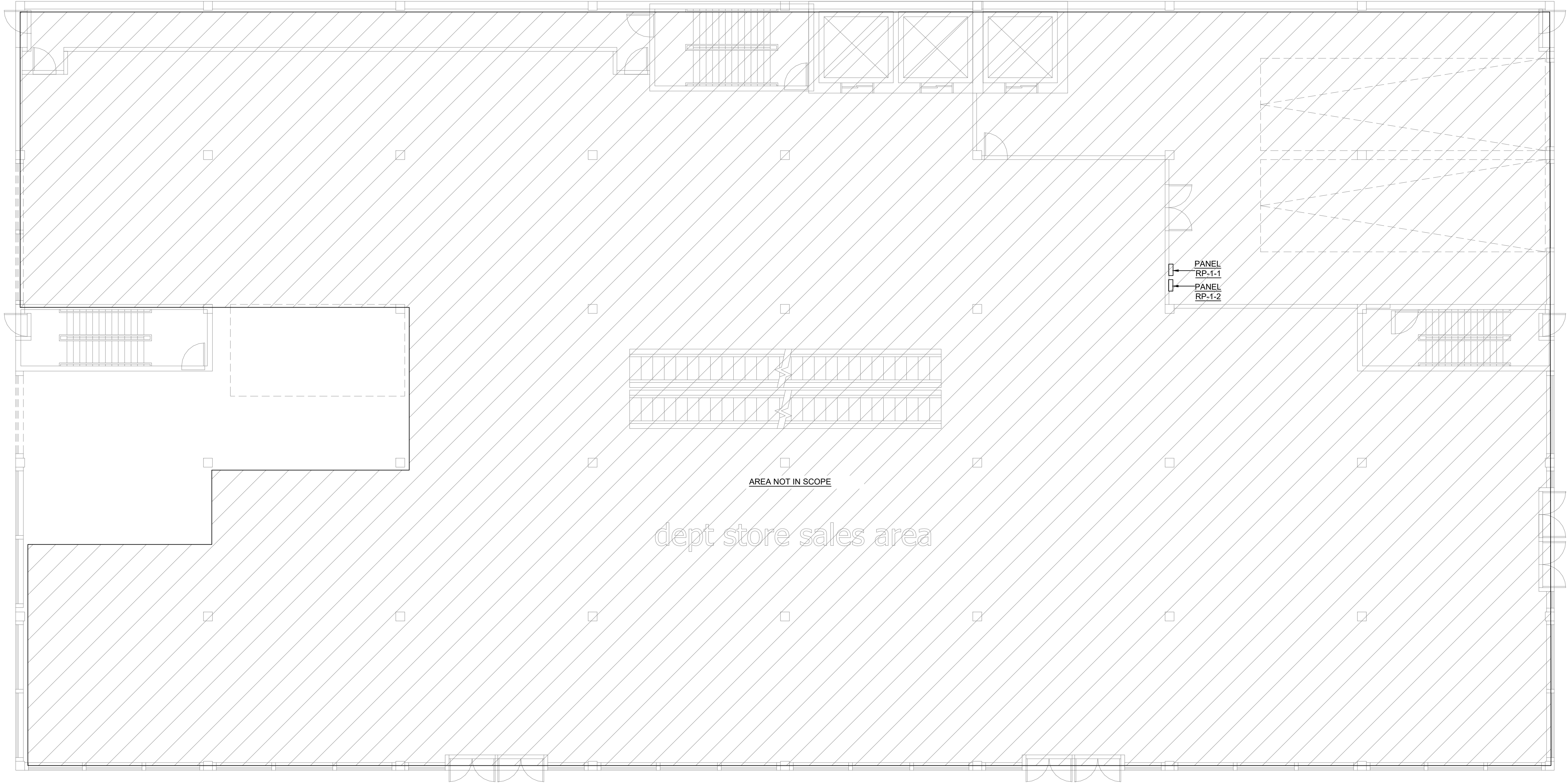
- Ⓐ EXISTING CON EDISON SERVICE END BOX RATED FOR 2000A, 120/208V, 3 PHASE SERVICE. EQUIPMENT SHALL BE DEMOLISHED FOR SERVICE UPGRADE.
- Ⓑ EXISTING 2000A CT CABINET TO BE DEMOLISHED
- Ⓒ EXISTING 2000A, 120/208V, 3 PHASE SERVICE DISCONNECT SWITCH (SS#1) FOR DEPARTMENT STORE TO REMAIN
- Ⓓ EXISTING 2000A, 120/208V, 3 PHASE MAIN DISTRIBUTION PANEL FOR DEPARTMENT STORE TO REMAIN
- Ⓔ CON EDISON METER FOR DEPARTMENT STORE TO BE RELOCATED
- Ⓕ EXISTING 30AF/30AS FIRE ALARM FUSE CUTOUT BOX AND METER TO BE REMOVED

1 CELLAR - DEMOLITION PLAN

SCALE: 1/8" = 1'-0"

FOR EBC TRAINING PURPOSES ONLY

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1 GROUND FLOOR DEMOLITION PLAN
SCALE: 1/8" = 1'-0"

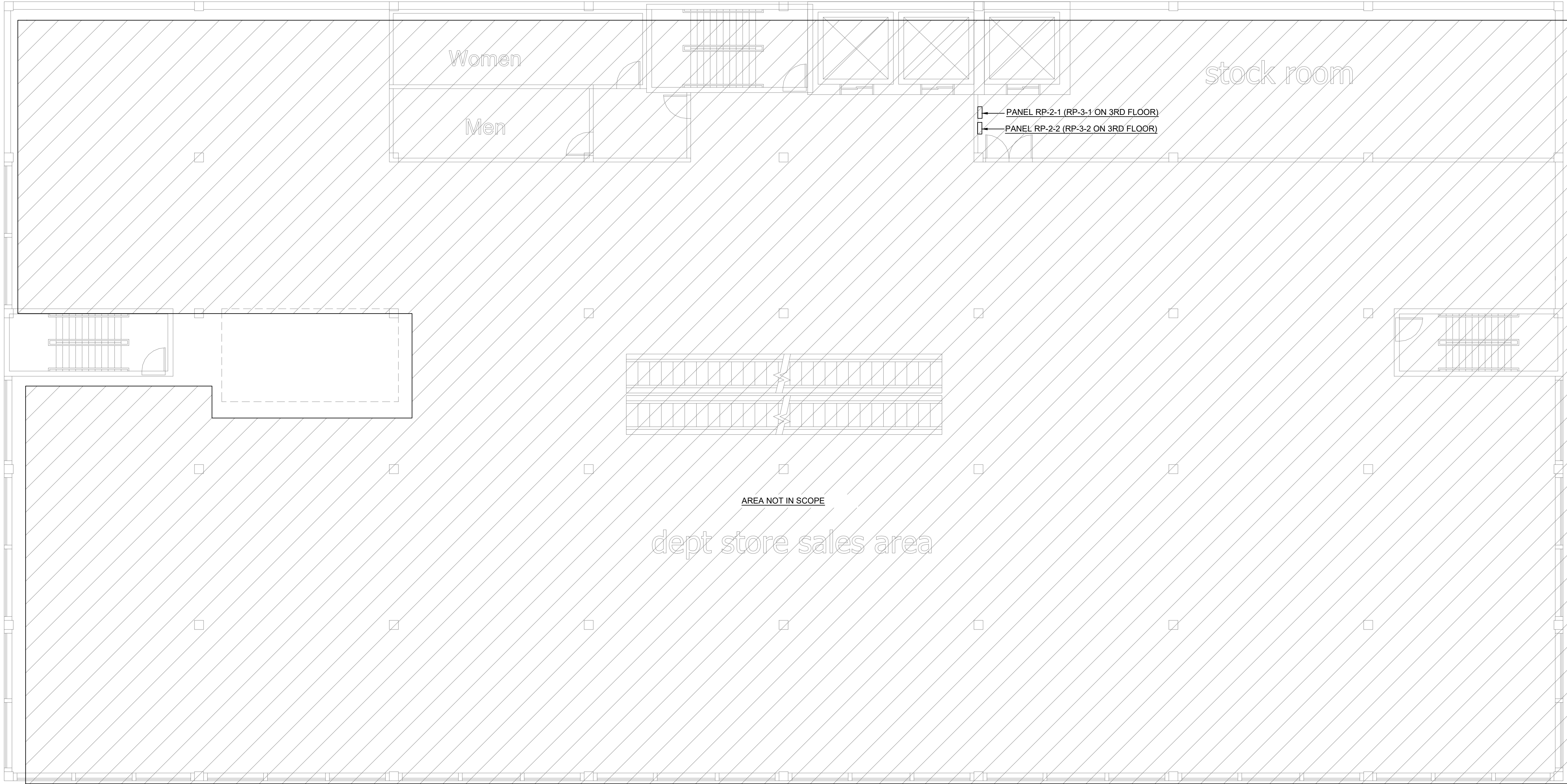
FOR EBC TRAINING PURPOSES ONLY
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PROJECT:
EBC CASE STUDY 02
DEPARTMENT STORE

DOB NOW JOB NUMBER:

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2026.06.02	SUBMIT FOR DOB REVIEW
2026.05.26	SUBMIT FOR DOB REVIEW



1 2ND&3RD FLOOR DEMOLITION PLAN
SCALE: 1/8" = 1'-0"

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PROJECT:

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2026.05.26	SUBMIT FOR DOB REVIEW

MEP ENGINEER :

STRUCTURAL ENGINEER :

PROJECT :

EBC CASE STUDY 02

DEPARTMENT STORE

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2026.06.02	SUBMIT FOR DOB REVIEW
2026.05.26	SUBMIT FOR DOB REVIEW

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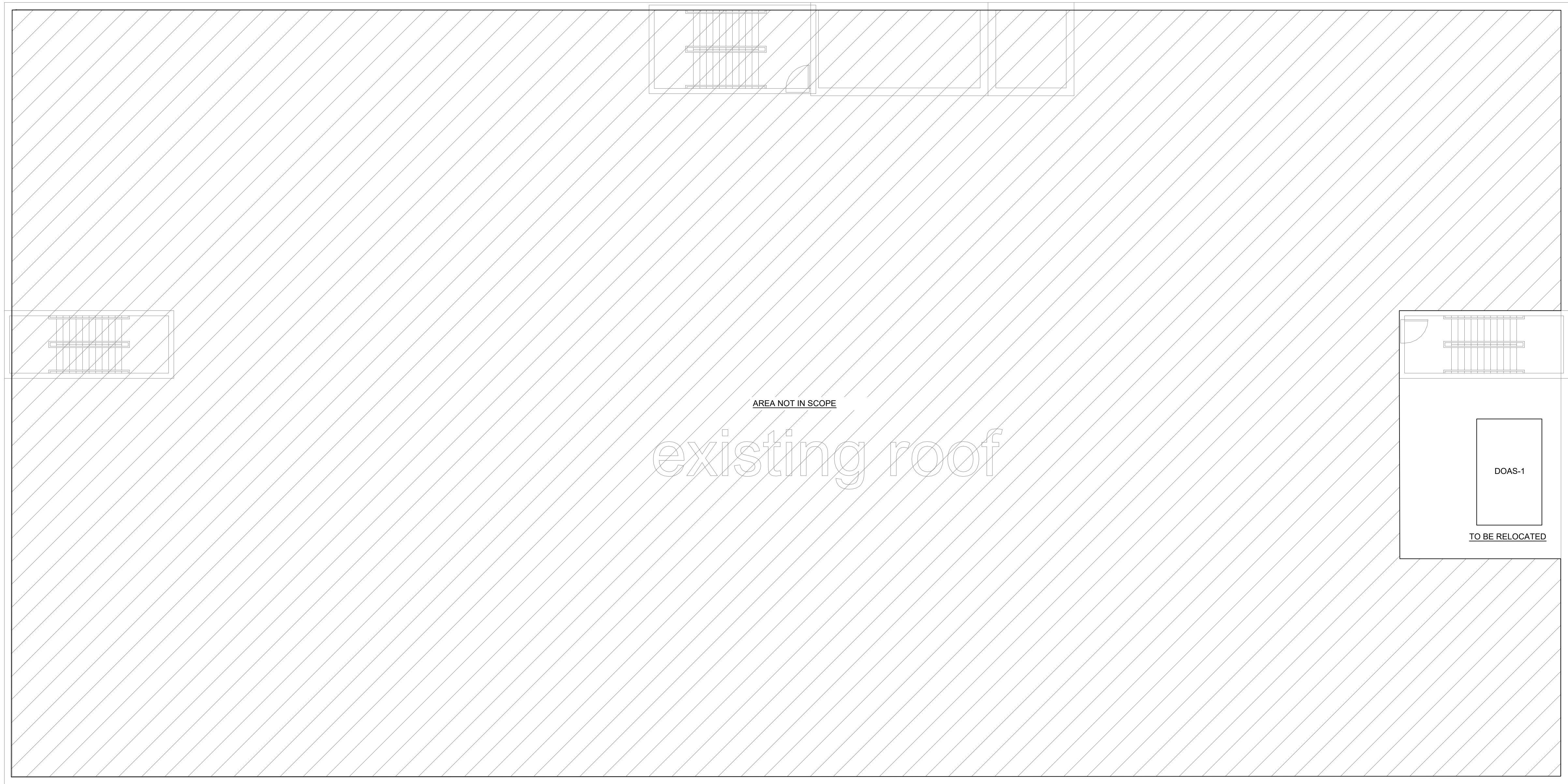
ELECTRICAL
ROOF DEMOLITION PLAN

PROJECT #:

DRAWN BY:

SHEET TITLE :

E-103.00

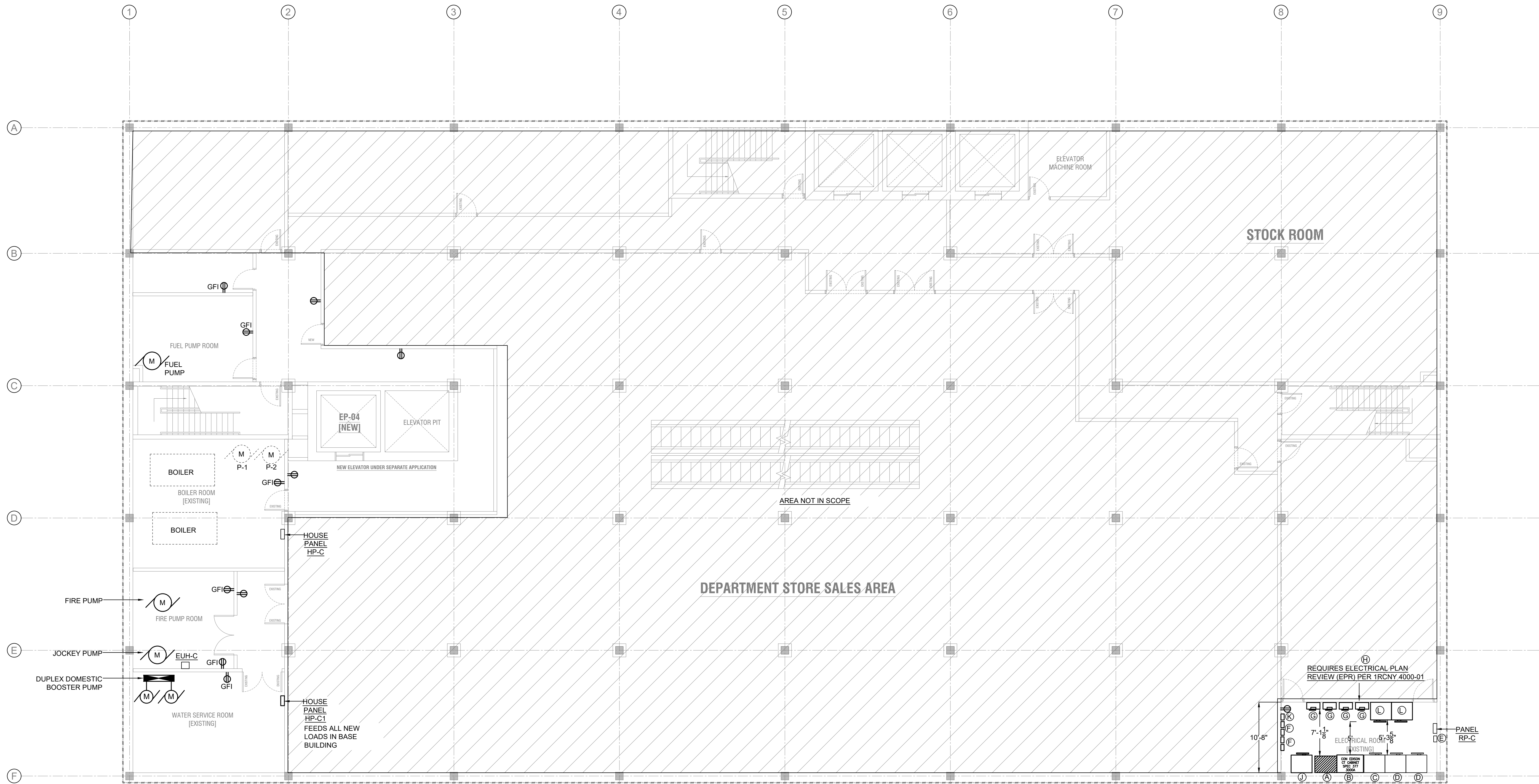


1 ROOF DEMOLITION PLAN

SCALE: 1/8" = 1'-0"

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ENERGY SUBMISSION AND SPECIAL INSPECTIONS ARE
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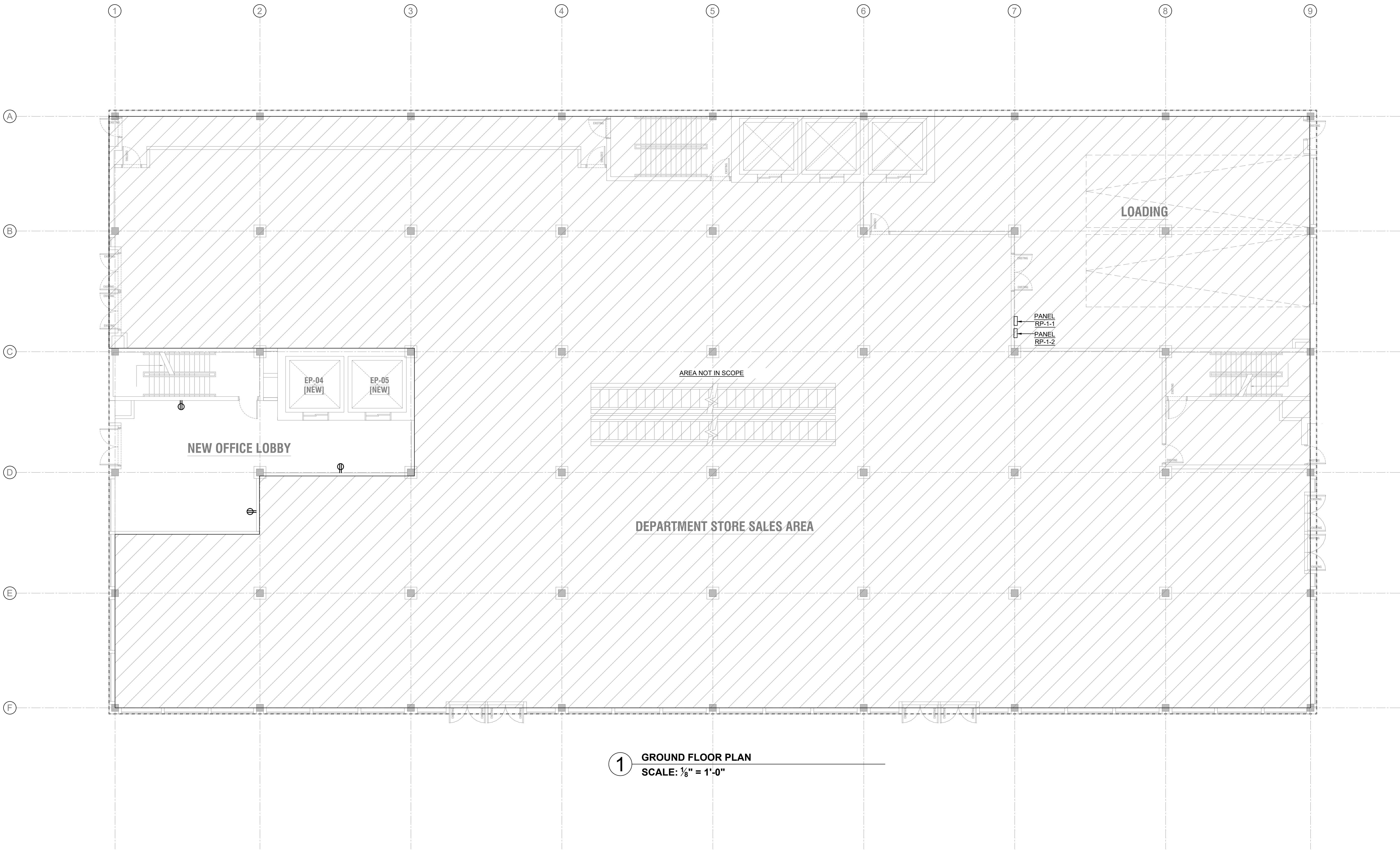
1 CELLAR PLAN
SCALE: 1/8" = 1'-0"

KEY NOTES:

- A NEW CON EDISON SERVICE END BOX RATED FOR 4000A, 120/208V, 3 PHASE SERVICE.
- B NEW 4000A CT CABINET
- C EXISTING 2000A, 120/208V, 3 PHASE SERVICE DISCONNECT SWITCH (SS#1) FOR DEPARTMENT STORE TO REMAIN
- D EXISTING 2000A, 120/208V, 3 PHASE MAIN DISTRIBUTION PANEL FOR DEPARTMENT STORE TO REMAIN
- E CON EDISON METER FOR DEPARTMENT STORE TO REMAIN. RECONNECT TO NEW CT CABINET.
- F NEW 70AF/100AS FIRE ALARM FUSE CUTOFF BOX AND METER FOR BASE BUILDING AND RETAIL FACP.
- G NEW TRANS-S SWITCH/METER COMBO RATED FOR 400AS/400AF SERVICE DISCONNECT SWITCHES FOR OFFICE ADDITIONS ON FLOORS 4-5 (TOTAL QUANTITY = 4)
- H ELECTRICAL ADVISORY BOARD APPROVAL REQUIRED FOR ROOMS WITH OVER 1000KVA. TWO MEANS OF EGRESS REQUIRED. DOORS MUST SWING OUT AND PROVIDED WITH PANIC HARDWARE.
- J FIRE PUMP SERVICE SWITCH
- K HOUSE METER
- L NEW MDP FOR HOUSE LOADS RATED FOR 600AF/600AS, 120/208V, 3PH.

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EBC CASE STUDY 02

DEPARTMENT STORE

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2026.06.02	SUBMIT FOR DOB REVIEW
2026.05.26	SUBMIT FOR DOB REVIEW

DRAWING TITLE:
ELECTRICAL
GROUND FLOOR PLAN

PROJECT #:	DRAWN BY:	SHEET TITLE:
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E-201.00

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ENERGY SUBMISSION AND SPECIAL INSPECTIONS ARE REQUIRED BUT NOT SHOWN FOR EBC TRAINING PURPOSES.

PROJECT:

EBC CASE STUDY 02

DEPARTMENT STORE

DOB NOW JOB NUMBER:

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2026.06.14	SUBMIT FOR DOB REVIEW
2026.07.21	SUBMIT FOR DOB REVIEW
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2026.05.26	SUBMIT FOR DOB REVIEW

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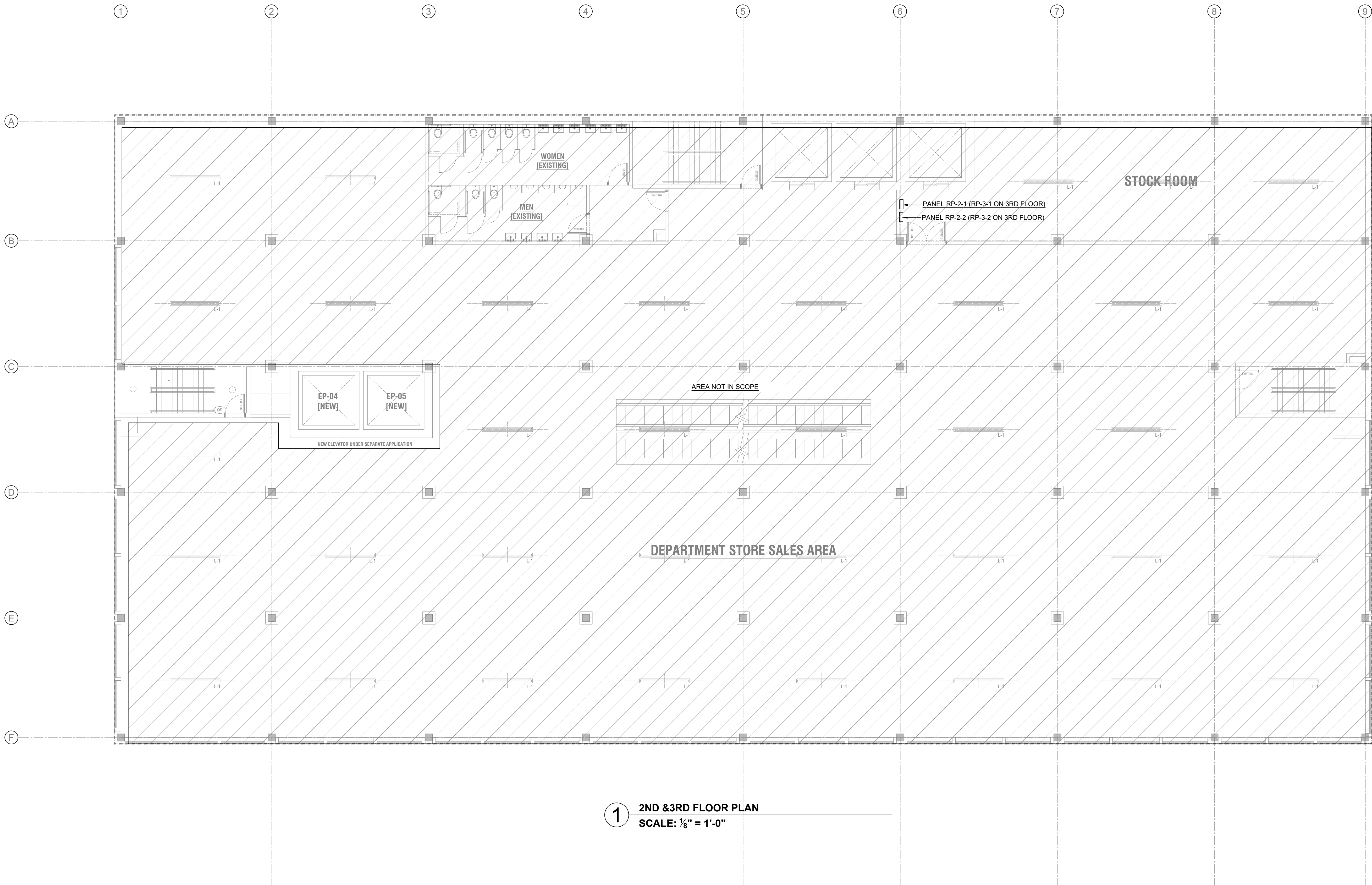
ELECTRICAL
2ND&3RD FLOOR PLAN

PROJECT #:

DRAWN BY:

SHEET TITLE:

E-202.00



1 2ND & 3RD FLOOR PLAN
SCALE: 1/8" = 1'-0"

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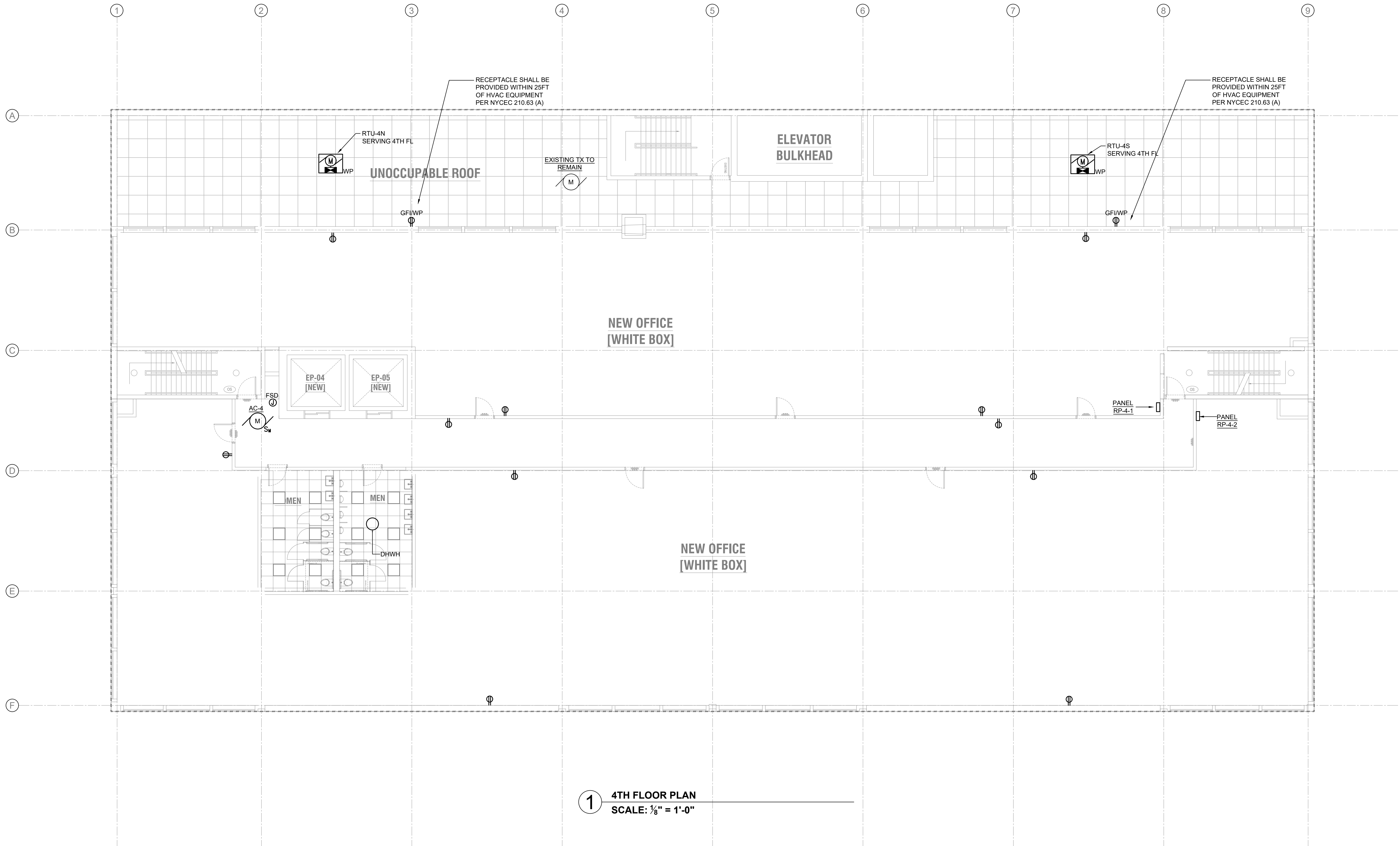
PROJECT:
EBC CASE STUDY 02
DEPARTMENT STORE

DOB NOW JOB NUMBER:	
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2026.05.26	SUBMIT FOR DOB REVIEW

DRAWING TITLE:
**ELECTRICAL
4TH FLOOR PLAN**

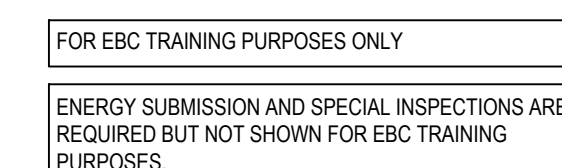
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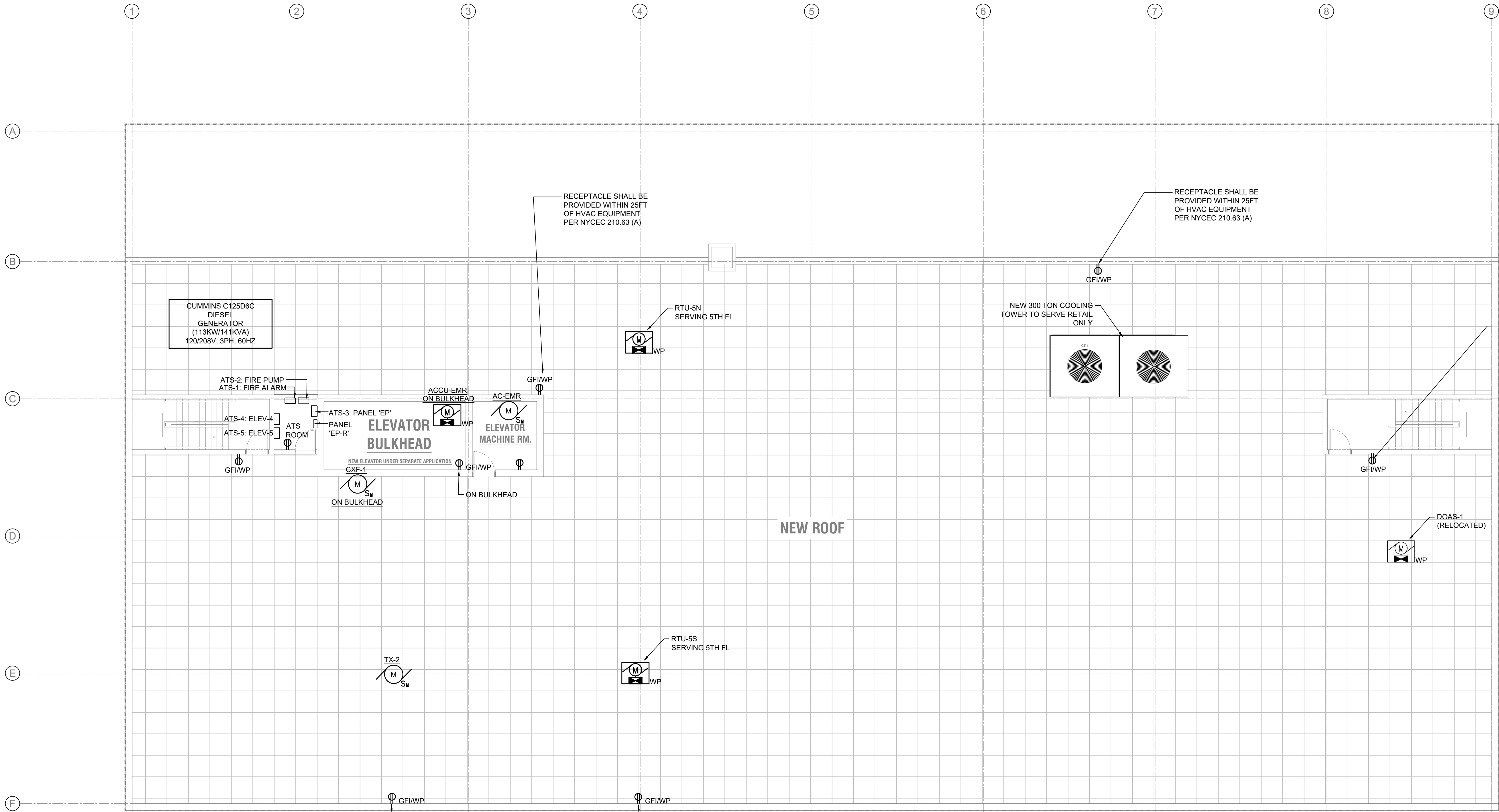
E-203.00



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1 ROOF PLAN
SCALE: 1/8" = 1'-0"

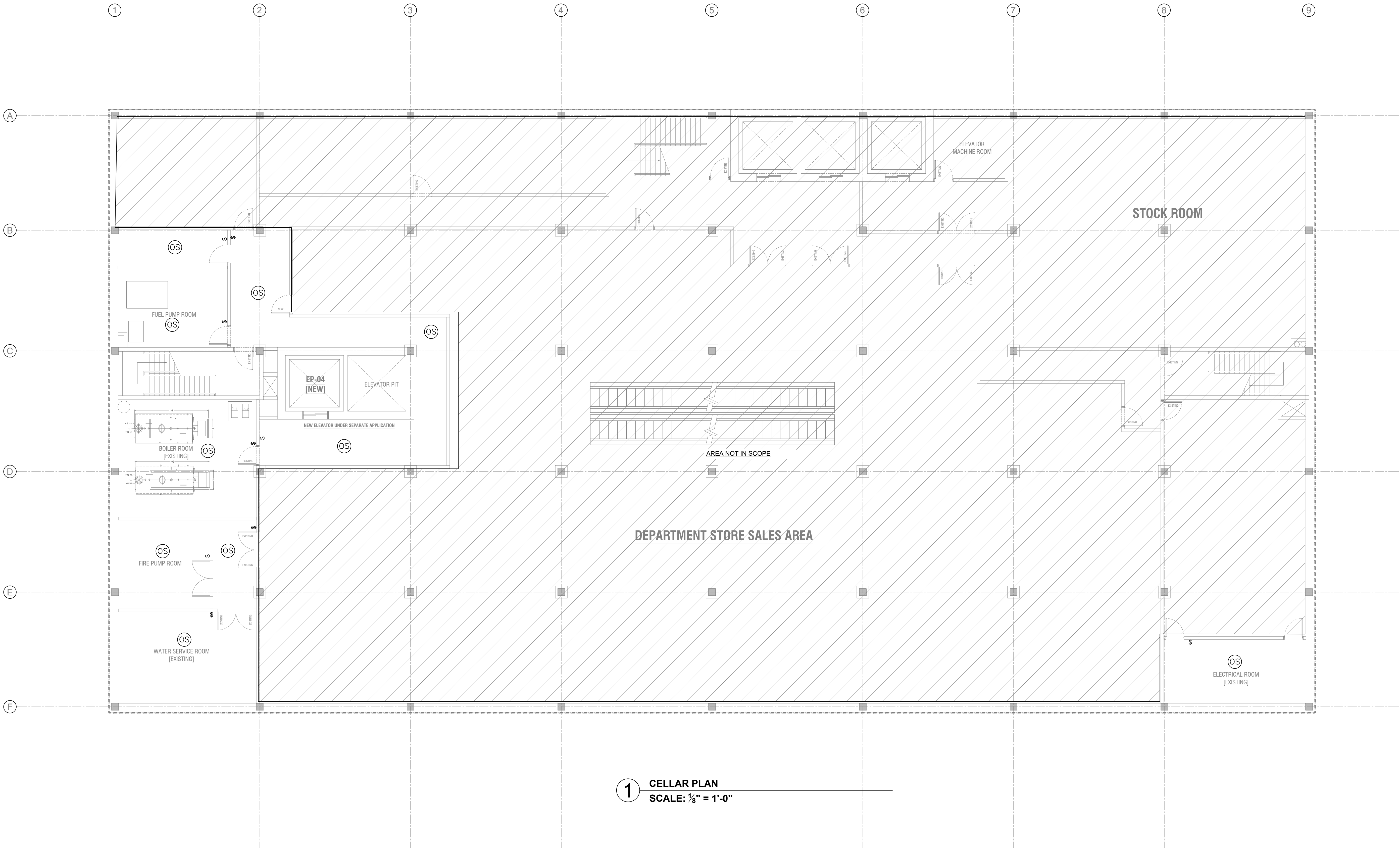
FOR EBC TRAINING PURPOSES ONLY
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PROJECT:
EBC CASE STUDY 02
DEPARTMENT STORE

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DRAWING TITLE:
**ELECTRICAL
ROOF PLAN**

PROJECT #: DRAWN BY:
SHEET TITLE:



1 CELLAR PLAN
SCALE: 1/8" = 1'-0"

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PROJECT:
EBC CASE STUDY 02
DEPARTMENT STORE

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2026.06.02	SUBMIT FOR DOB REVIEW
2026.05.26	SUBMIT FOR DOB REVIEW

DRAWING TITLE:
**LIGHTING
CELLAR PLAN**

PROJECT #: DRAWN BY: SHEET TITLE:

E-300.00

PROJECT:

EBC CASE STUDY 02

DEPARTMENT STORE

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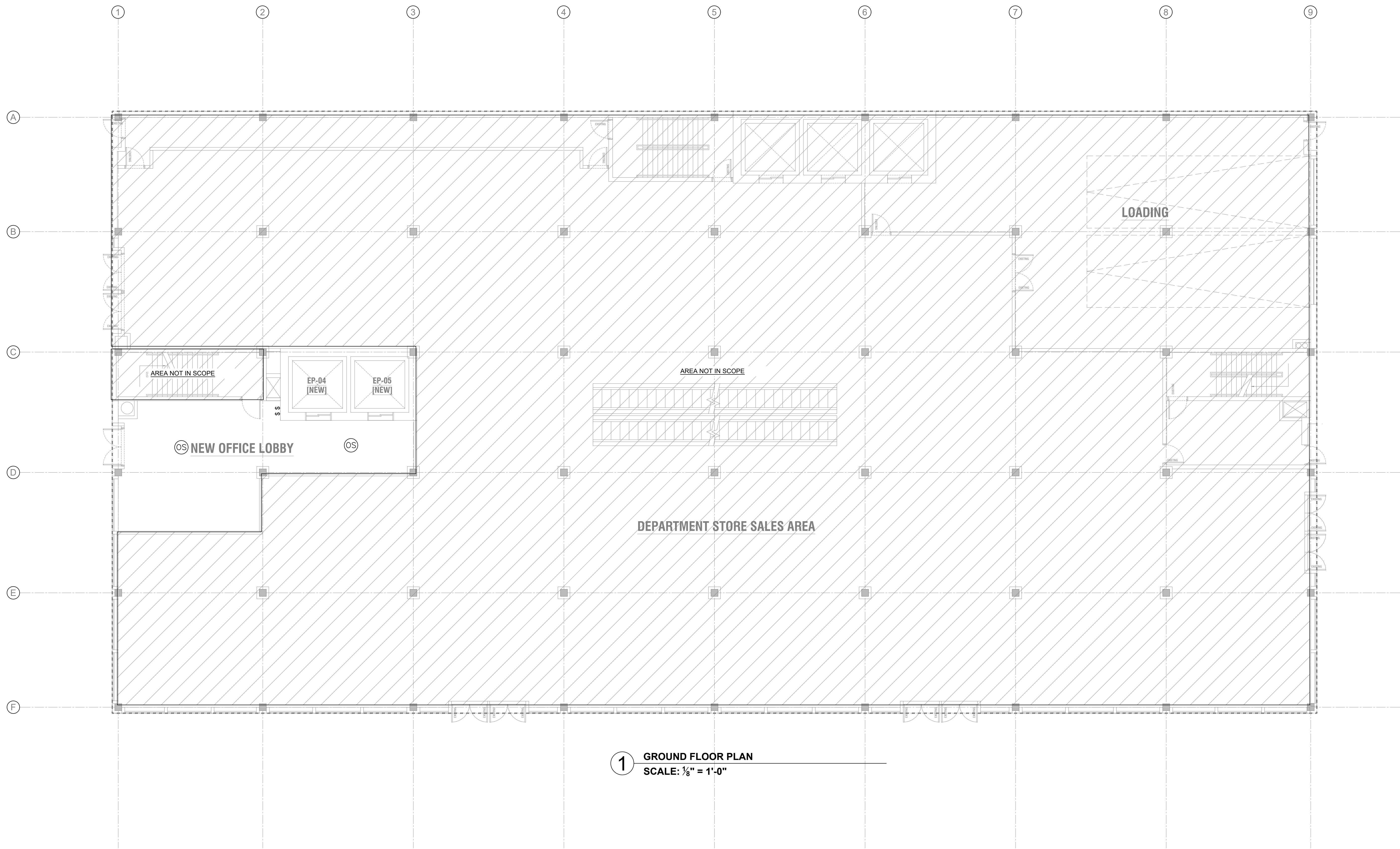
LIGHTING
GROUND FLOOR PLAN

PROJECT #: _____

DRAWN BY: _____

SHEET TITLE: _____

E-301.00



1 GROUND FLOOR PLAN

SCALE: 1/8" = 1'-0"

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PROJECT:

EBC CASE STUDY 02

DEPARTMENT STORE

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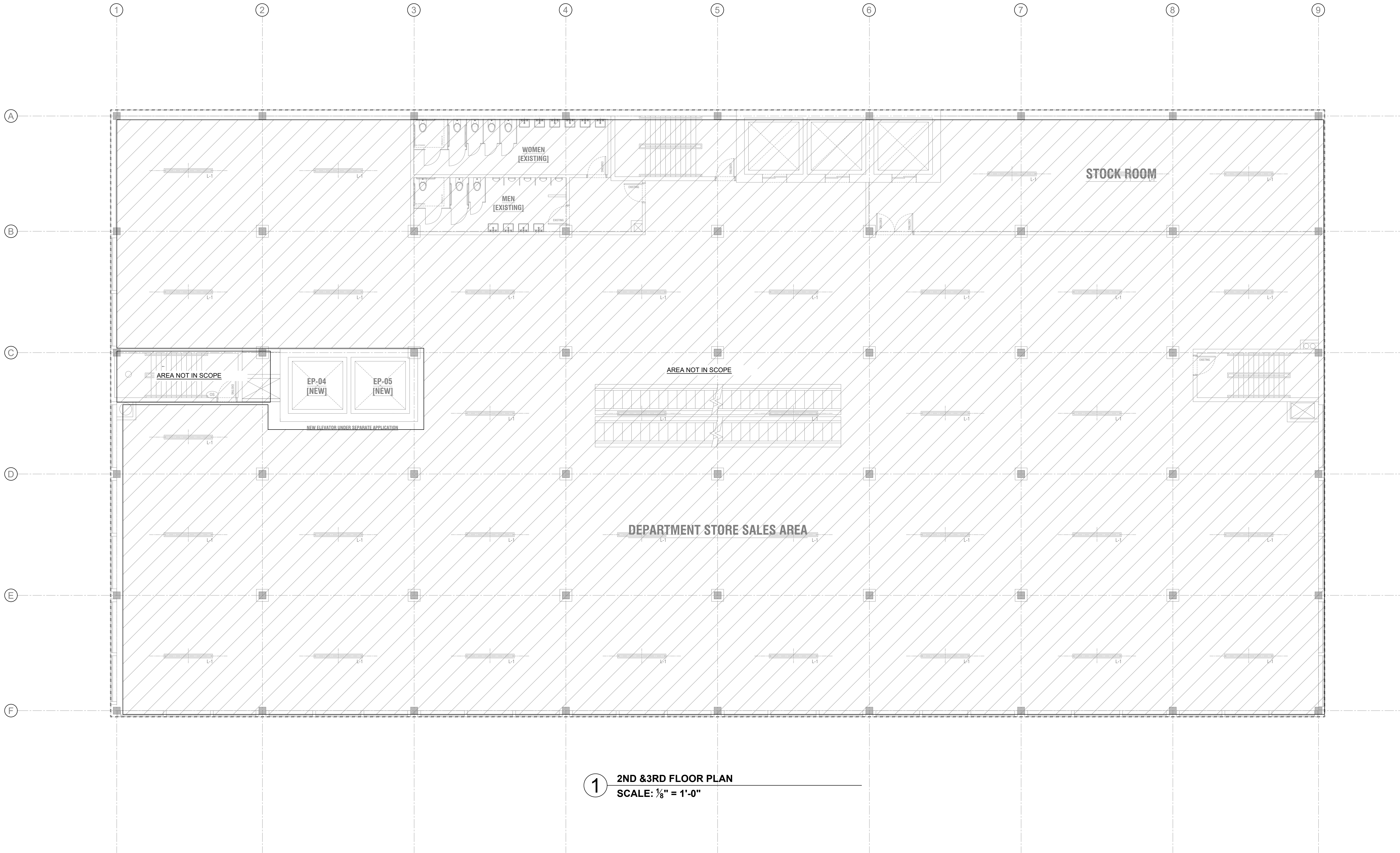
LIGHTING
2ND&3RD FLOOR PLAN

PROJECT #:

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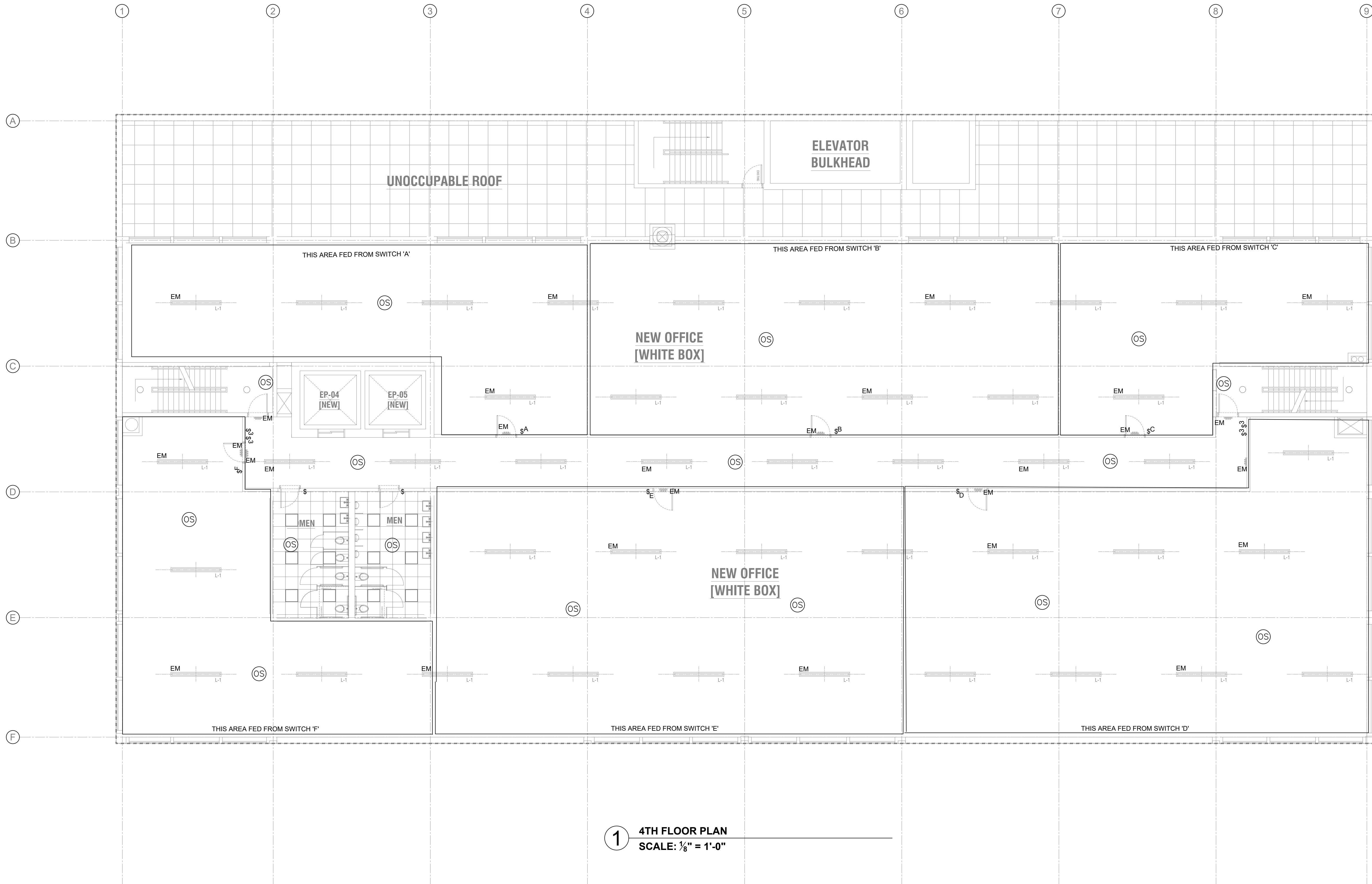
SHEET TITLE:

E-302.00



FOR EBC TRAINING PURPOSES ONLY

ENERGY SUBMISSION AND SPECIAL INSPECTIONS ARE
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PURPOSES.



FOR EBC TRAINING PURPOSES ONLY

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EBC CASE STUDY 02

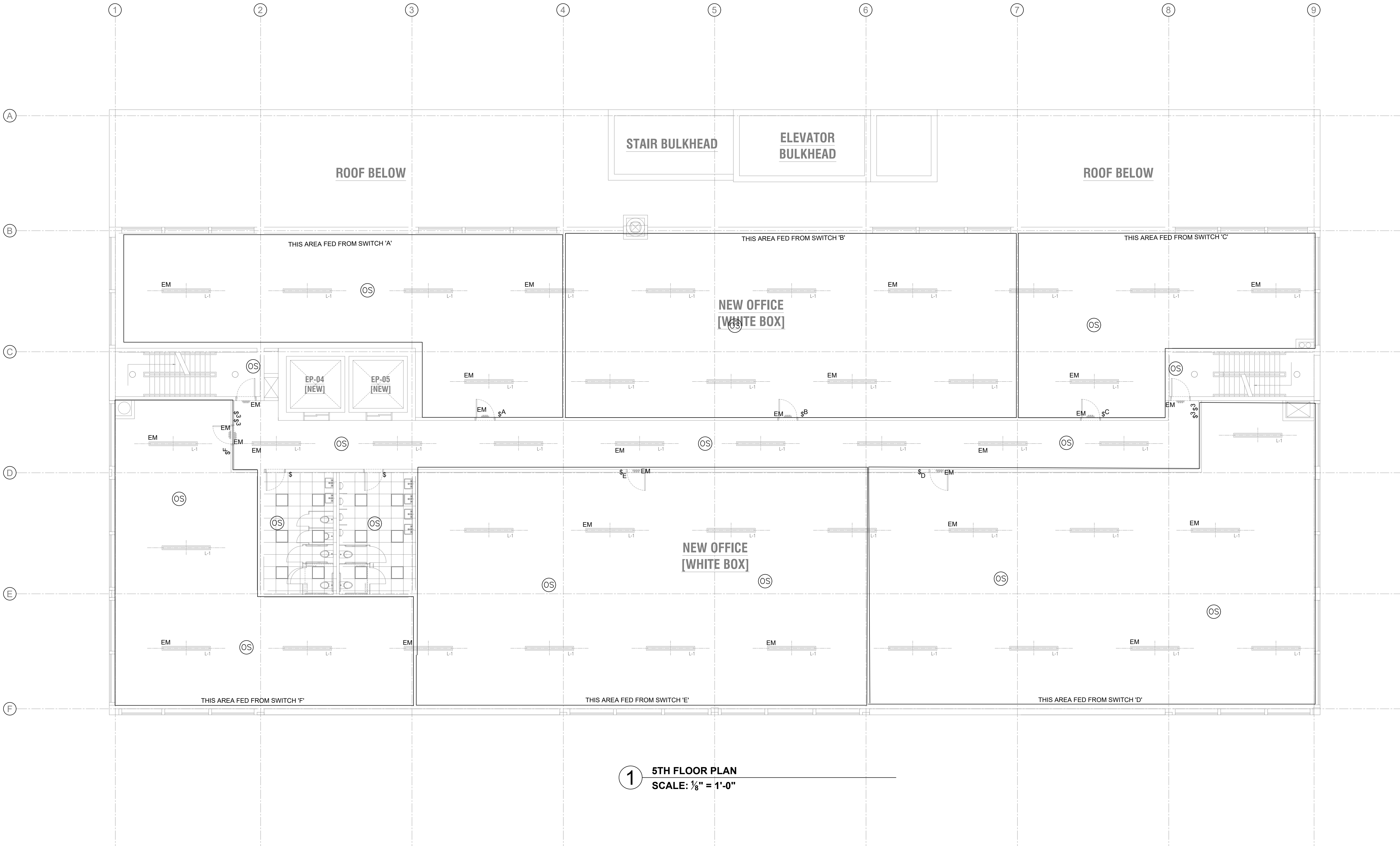
DEPARTMENT STORE

2026.08.14	SUBMIT FOR DOB REVIEW
2026.07.21	SUBMIT FOR DOB REVIEW
2026.06.16	SUBMIT FOR DOB REVIEW
2026.06.02	SUBMIT FOR DOB REVIEW
2026.05.26	SUBMIT FOR DOB REVIEW

LIGHTING

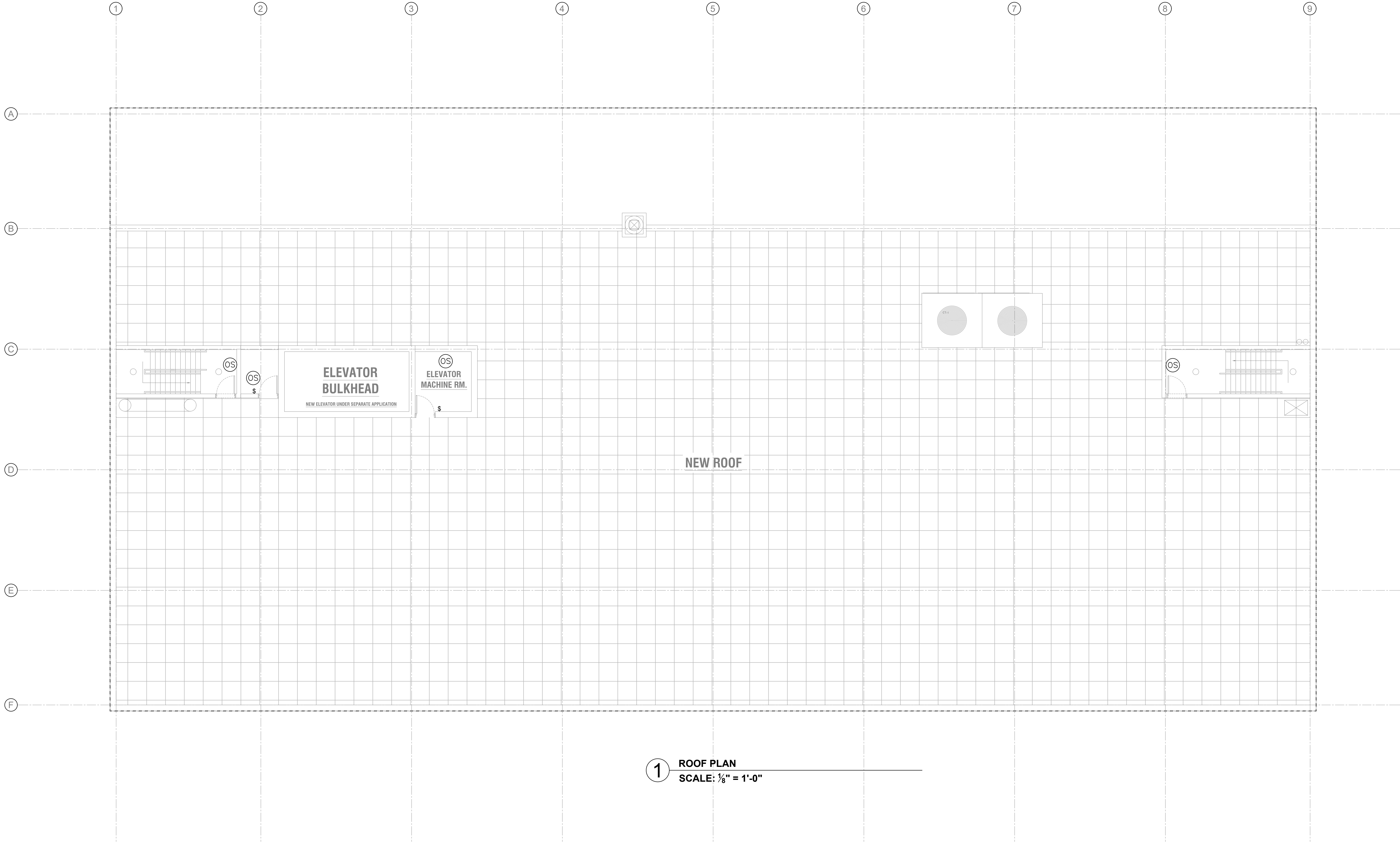
5TH FLOOR PLAN

E-304.00



1 5TH FLOOR PLAN

SCALE: 1/8" = 1'-0"



1 ROOF PLAN
SCALE: 1/8" = 1'-0"

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PROJECT:

EBC CASE STUDY 02
DEPARTMENT STORE

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2026.05.26	SUBMIT FOR DOB REVIEW

DRAWING TITLE:

**LIGHTING
ROOF PLAN**

PROJECT #: DRAWN BY: SHEET TITLE:

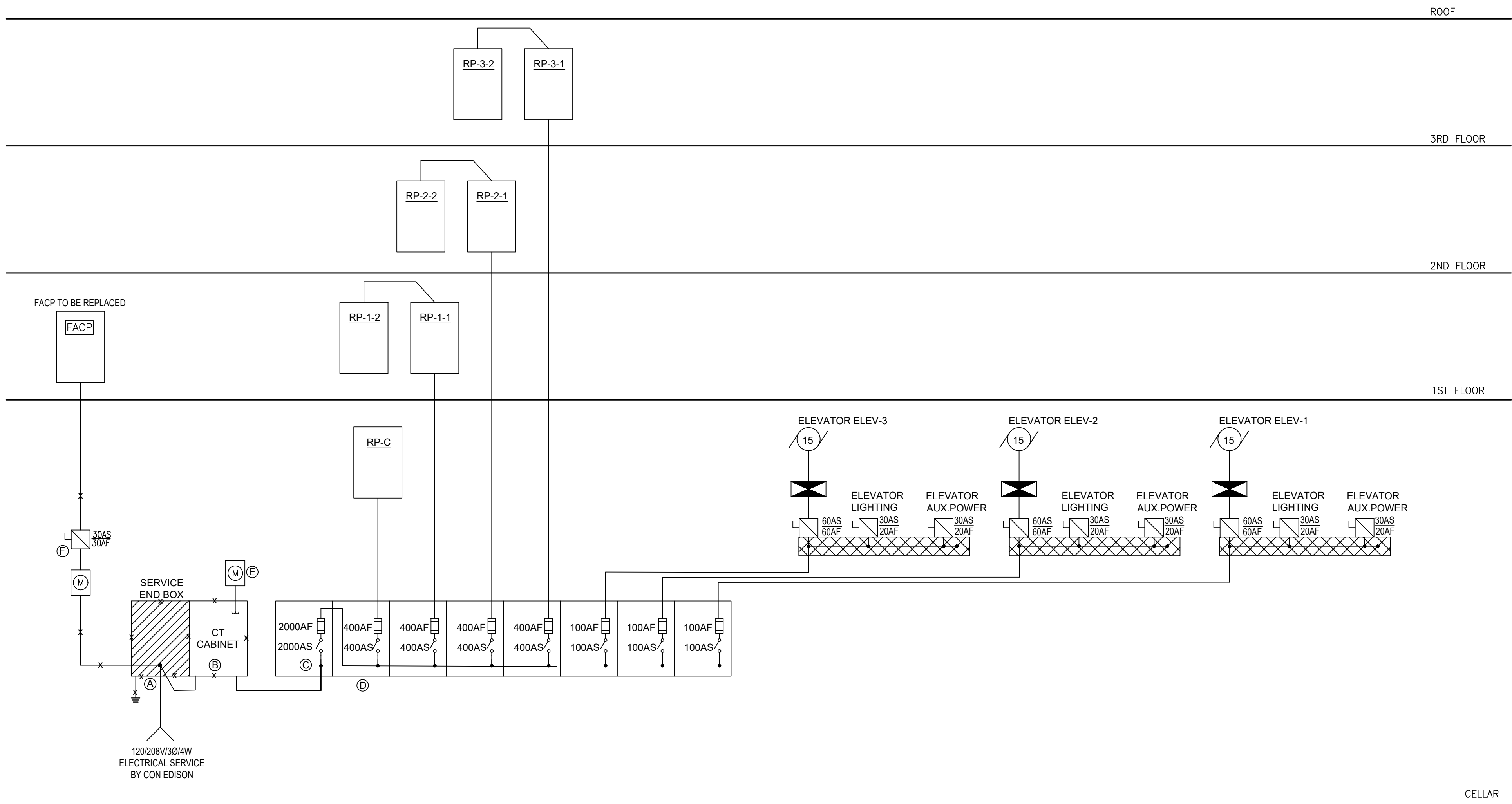
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EBC CASE STUDY 02

DEPARTMENT STORE

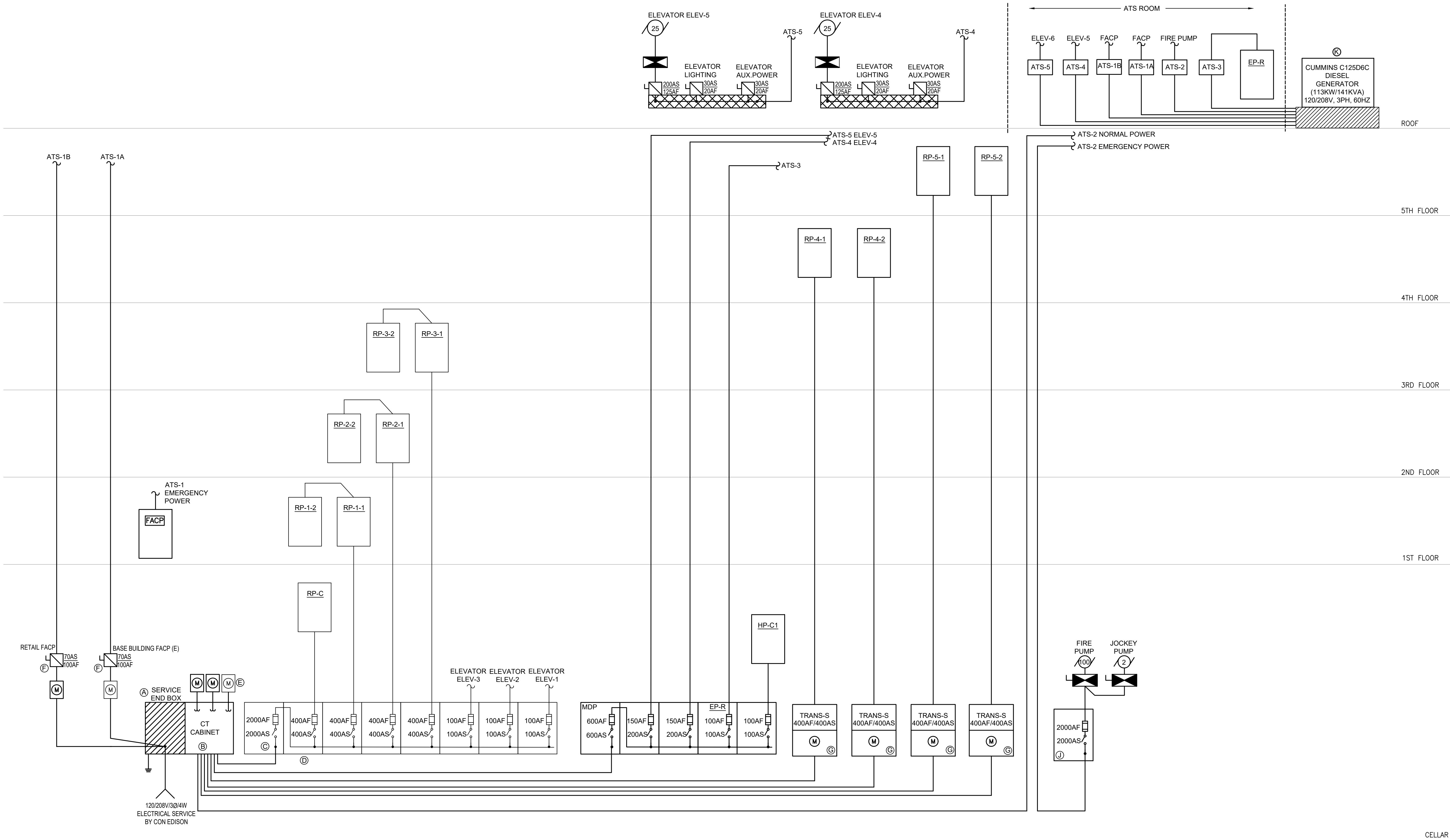
ELECTRICAL RISER
DIAGRAM - DEMOLITION

E-700.00



KEY NOTES:

- Ⓐ EXISTING CON EDISON SERVICE END BOX RATED FOR 2000A, 120/208V, 3 PHASE SERVICE. EQUIPMENT SHALL BE DEMOLISHED FOR SERVICE UPGRADE.
- Ⓑ EXISTING 2000A CT CABINET TO BE DEMOLISHED
- Ⓒ EXISTING 2000A, 120/208V, 3 PHASE SERVICE DISCONNECT SWITCH (SS#1) FOR DEPARTMENT STORE TO REMAIN
- Ⓓ EXISTING 2000A, 120/208V, 3 PHASE MAIN DISTRIBUTION PANEL FOR DEPARTMENT STORE TO REMAIN
- Ⓔ CON EDISON METER FOR DEPARTMENT STORE TO REMAIN
- Ⓕ EXISTING 30AF/30AS FIRE ALARM FUSE COUTOUT BOX AND METER TO BE REMOVED



KEY NOTES:

- (A) NEW CON EDISON SERVICE END BOX RATED FOR 4000A, 120/208V, 3 PHASE SERVICE.
(B) NEW 4000A CT CABINET
(C) EXISTING 2000A, 120/208V, 3 PHASE SERVICE DISCONNECT SWITCH (SS#1) FOR DEPARTMENT STORE TO REMAIN
(D) EXISTING 2000A, 120/208V, 3 PHASE MAIN DISTRIBUTION PANEL FOR DEPARTMENT STORE TO REMAIN
(E) CON EDISON METER FOR DEPARTMENT STORE TO REMAIN. RECONNECT TO NEW CT CABINET.
(F) NEW 70AF/100AS FIRE ALARM FUSE COUTOUT BOX AND METER FOR BASE BUILDING AND RETAIL FACP

- (G) NEW TRANS-S SWITCH/METER COMBO RATED FOR 400AS/400AF SERVICE DISCONNECT SWITCHES FOR OFFICE ADDITIONS ON FLOORS 4-5 (TOTAL QUANTITY = 4)
(H) ELECTRICAL ADVISORY BOARD APPROVAL REQUIRED FOR ROOMS WITH OVER 1000KVA. TWO MEANS OF EGRESS REQUIRED. DOORS MUST SWING OUT AND PROVIDED WITH PANIC HARDWARE.
(J) FIRE PUMP SERVICE SWITCH
(K) NEW CUMMINS GENERATOR

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