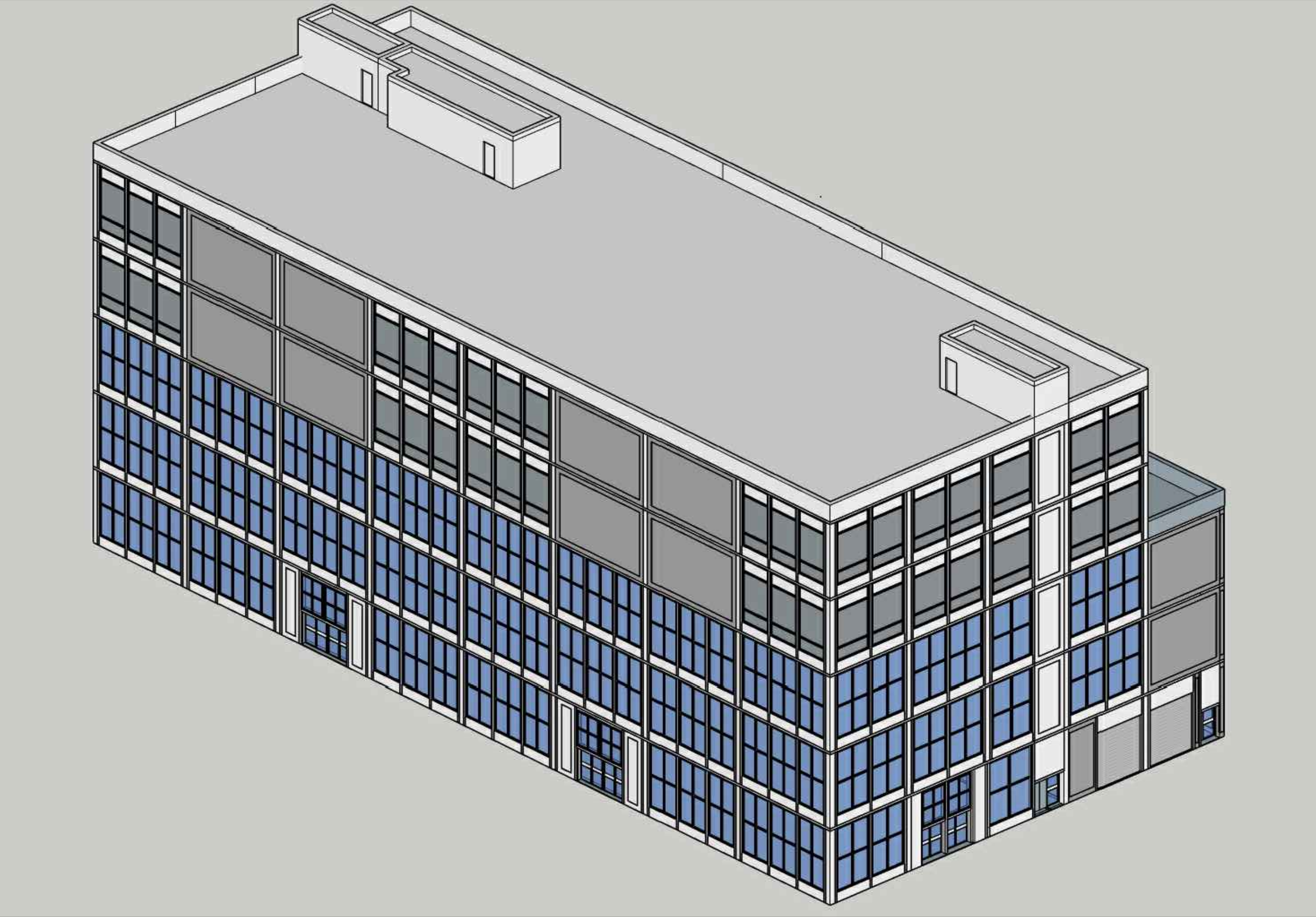


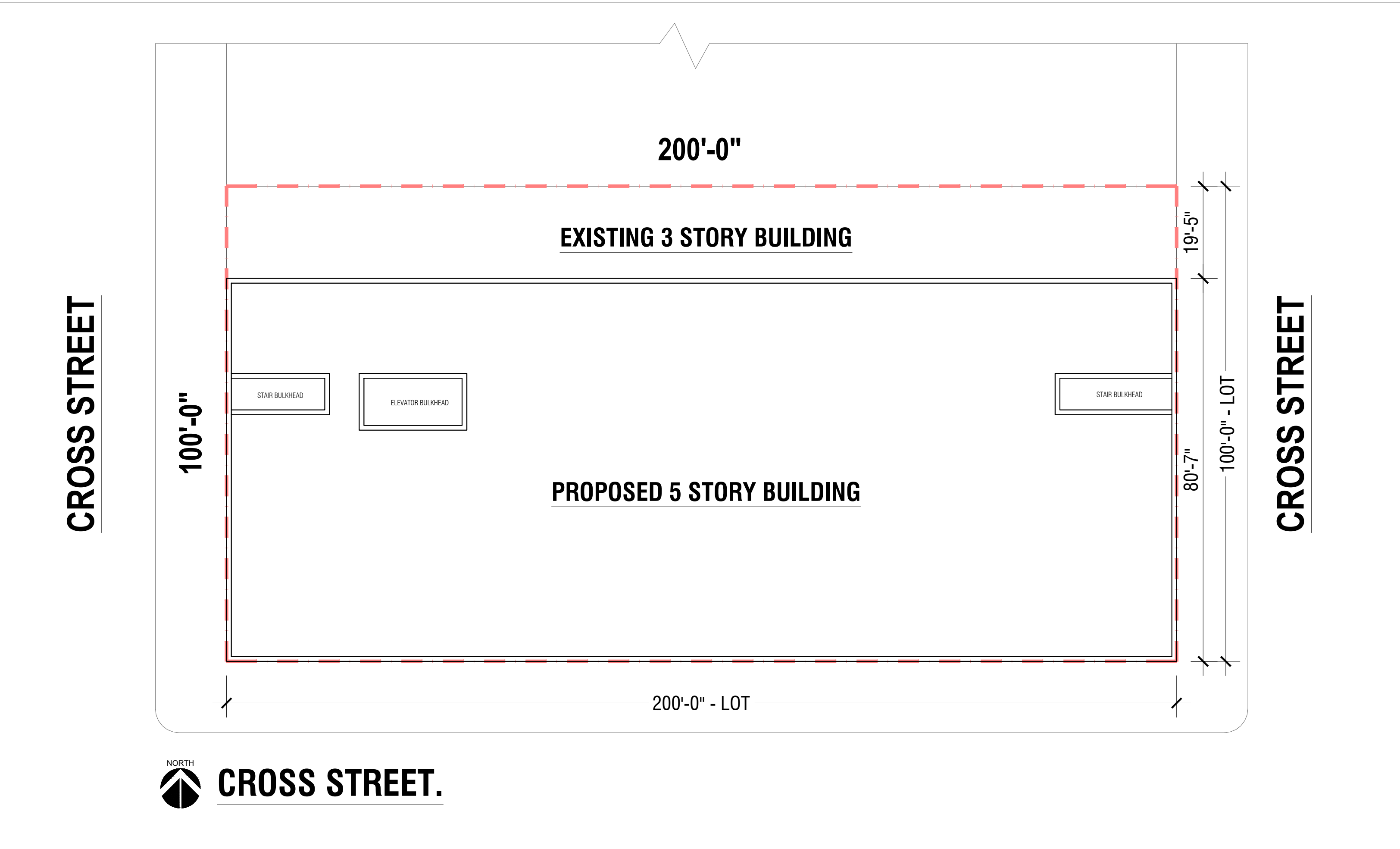
EBC CASE STUDY 02

BLOCK : # LOT : #

[ZONING COMPLIANCE IS NOT DEMONSTRATED IN THIS CASE STUDY]



PLOT PLAN



SCOPE OF WORK

2-STORY VERTICAL ENLARGEMENT FOR OFFICE USE (GROUP B - BUSINESS) TO A 3-STORY + CELLAR PRIOR CODE DEPARTMENT STORE.

LIST OF RELATED APPLICATIONS

ARCHITECTURAL APPLICATIONS

01GENERAL CONSTRUCTION APPLICATION

OTHER APPLICATIONS

02PLUMBING APPLICATION

03MECHANICAL APPLICATION

04SPRINKLER APPLICATION

05STRUCTURAL APPLICATION

06FIRE ALARM APPLICATION

#SHEETSHEET TITLEISSUANCE2026.06.162026.08.032026.08.14

ARCHITECTURAL DRAWINGS

01G-001.00PROJECT INFORMATION AND PLOT PLAN•••

02G-002.00GENERAL NOTES AND SPECIAL INSPECTION•••

03G-003.00ACCESSIBILITY DIAGRAMS AND NOTES•••

04G-004.00ARCHITECTURAL CODE ANALYSIS - PART 1•••

05G-005.00ARCHITECTURAL CODE ANALYSIS - PART 2•••

06G-006.00ARCHITECTURAL CODE ANALYSIS - PART 3•••

07G-007.00ARCHITECTURAL CODE ANALYSIS - PART 4•••

08G-008.00ARCHITECTURAL CONDITION ASSESSMENT REPORT•••

09G-009.00CODE ANALYSIS DIAGRAM•••

10G-010.00WORK AREA DIAGRAM•••

11G-100.00EGRESS ANALYSIS - CELLAR - 4TH FLOOR•••

12G-101.00EGRESS ANALYSIS - 5TH FLOOR & ANALYSIS•••

13DM-100.00DEMOLITION PLAN - CELLAR•••

14DM-101.00DEMOLITION PLAN - GROUND FLOOR•••

15DM-102.00DEMOLITION PLAN - 2ND & 3RD FLOOR•••

16DM-103.00DEMOLITION PLAN - ROOF•••

17A-100.00PROPOSED PLAN - CELLAR•••

18A-101.00PROPOSED PLAN - GROUND FLOOR•••

19A-102.00PROPOSED PLAN - 2ND & 3RD FLOOR•••

20A-103.00PROPOSED PLAN - 4TH FLOOR•••

21A-104.00PROPOSED PLAN - 5TH FLOOR•••

22A-105.00PROPOSED PLAN - ROOF•••

23A-200.00REFLECTED CEILING PLAN - GROUND FLOOR•••

24A-201.00REFLECTED CEILING PLAN - 3RD FLOOR•••

25A-202.00REFLECTED CEILING PLAN - 4TH FLOOR•••

26A-203.00REFLECTED CEILING PLAN - 5TH FLOOR•••

27A-204.00REFLECTED CEILING PLAN - NEW ROOF•••

28A-300.00BUILDING SECTION•••

29A-310.00BUILDING ELEVATION•••

30A-400.00EXTERIOR WALL DETAIL•••

31A-500.00PARTITION SCHEDULE•••

32A-501.00DOOR SCHEDULE•••

33A-510.00TYPICAL DETAILS: CEILING•••

34A-511.00TYPICAL DETAILS: FLOORING•••

35EN-100.00ENERGY ANALYSIS•••

36EN-101.00ENERGY ANALYSIS - WALL SECTION•••

37EN-102.00ENERGY ANALYSIS - ENVELOPE ANALYSIS•••

38EN-103.00ENERGY ANALYSIS - LIGHTING ANALYSIS•••

OWNER:

NYC

Buildings

ICC

INTERNATIONAL CODE COUNCIL

ARCHITECT :

MEP ENGINEER :

STRUCTURAL ENGINEER :

PROJECT:

CASE STUDY 02

VERTICAL ENLARGEMENT

DOB NOW JOB NUMBER:

DOB APPROVAL STAMP:

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

DRAWING TITLE:

PROJECT INFORMATION AND PLOT PLAN

PROJECT #:

DRAWN BY:

SHEET TITLE :

G-001.00

ADJ.

ADJACENT

A.F.F.

ABOVE FINISHED FLOOR

A.C.T

ACOUSTICAL CEILING TILE

ADA

AMERICANS WITH DISABILITIES ACT

ADAAG

ADA ACCESSIBILITY GUIDELINES

BLK.

BLOCKING

CL

CENTERLINE

CLR.

CLEAR

CLG.

CEILING

CNTR.

COUNTER

CNT.

CENTER

CONC.

CONCRETE

COL.

COLUMN

C.O.W.

CENTER OF WALL

CPT.

CARPET

CONT.

CONTINUOUS

CONST.

CONSTRUCTION

C.G.

CORNER GUARD

CMU

CONCRETE MASONRY UNIT

DEMO

DEMOLITION

DIM.

DIMENSION

DTL.

DETAIL

DWG.

DRAWING

DIA.

DIAMETER

DN.

DOWN

DR.

DOOR

ELEC.

ELECTRICAL

E.P.

ELECTRICAL PANELBOARD

EMER.

EMERGENCY

EQ.

EQUAL

(E)

EXISTING

EA.

EACH

EXT.

EXTERIOR

FBO.

FURNISHED BY OWNER

F.C.

FIXTURE CONTRACTOR

F.F.

FINISH FLOOR

F.D.

FLOOR DRAIN

FR

FRAME

FR.T.

FIRE RETARDANT TREATED

F.S.

FIRE EXTINGUISHER

FURN.

FURNISH

F.O.W.

FACE OF WALL

GA.

GAUGE

G.B.

GRAB BAR

G.C.

GENERAL CONTRACTOR

GWB.

GYPSUM WALL BOARD

HC

HOLLOW CORE

H.M.

HOLLOW METAL

HGT.

HEIGHT

HORIZ.

HORIZONTAL

IN.

INCH

INST.

INSTALL

INSUL.

INSULATION

KE

KITCHEN EQUIPMENT

L.O.D.

LEASE OUTLINE DRAWING

L.L.

LANDLORD

MAX

MAXIMUM

MAT'L

MATERIAL

M.O.F.

MAIN DISTRIBUTION FACILITY

MECH.

MECHANICAL

MFR.

MANUFACTURER

MIR.

MIRROR

MIN.

MINIMUM

M.A.

MOISTURE RESISTANT

M.O.

MASONRY OPENING

N/A

NOT APPLICABLE

(N)

NEW

N.I.C.

NOT IN CONTRACT

NO.

NUMBER

N.P.

NEUTRAL PIER

N.T.S.

NOT TO SCALE

O.C.

ON CENTER

O.D.

OUTSIDE DIAMETER

OPG.

OPENING

OPP.

OPPOSITE

PT.

PAINT

PLYWD.

PLYWOOD

P-LAM.

PLASTIC LAMINATE

PNL

PANEL

QTY.

QUANTITY

RCP

REFLECTED CEILING PLAN

R.B.

RUBBER BASE

REINF.

REINFORCING

REQ'D.

REQUIRED

REV.

REVISED/REVISION

SC

SOLID CORE

SCHED.

SCHEDULE

SIM.

SIMILAR

SPEC.

SPECIFICATION

SQ.

SQUARE

SUSP.

SUSPENDED

TEMP.

TEMPERED

TYP.

TYPICAL

UON

UNLESS OTHERWISE NOTED

V.C.A.

VINYL COMPOSITION TILE

V.I.F.

VERIFY IN FIELD

VERT.

VERTICAL

WD

WOOD

GENERAL NOTES:

1.

ALL WORK SHALL CONFORM TO THE REQUIREMENTS OF THE NEW YORK CITY CONSTRUCTION CODES.

2.

CONTRACTOR TO CHECK AND VERIFY ALL CONDITIONS AND DIMENSIONS AT THE SITE BEFORE COMMENCING THE WORK. THE ARCHITECT SHALL BE NOTIFIED OF ANY UNUSUAL CONDITIONS.

3.

CONTRACTOR IS TO FILE WORKMAN'S COMPENSATION AND TO SECURE ALL PERMITS BEFORE THE START OF WORK.

4.

THE CONTRACTOR SHALL NOT SCALE DRAWING TO OBTAIN DIMENSIONS. IF THERE IS A DISCREPANCY ON OR LACK OF DIMENSION, THE ARCHITECT SHALL BE NOTIFIED AND THE INFORMATION WILL BE PROVIDED.

5.

THE ENGINEER / ARCHITECT HAS NOT BEEN RETAINED FOR FIELD SUPERVISION OR INSPECTION.

6.

THE CONTRACTOR IS TO RETAIN A LICENSED PROFESSIONAL ENGINEER AS PART OF HAS CONTRACT, ON BEHALF OF THE OWNER TO PERFORM ALL REQUIRED SPECIAL INSPECTION WORK AS MAY BE REQUIRED.

7.

CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO INSURE THE SAFETY AFFECTED BY THIS WORK.

8.

FIVE DAYS PRIOR NOTICE SHALL BE GIVEN TO THE ADJOINING PROPERTY OWNERS AFFECTED BY THIS WORK.

9.

ALL MATERIALS, ASSEMBLIES, FORMS AND METHODS OF CONSTRUCTION AND SERVICE EQUIPMENT SHALL MEET THE FOLLOWING REQUIREMENT:

9.1.

IT SHALL HAVE BEEN ACCEPTED PRIOR TO THE EFFECTIVE DATE OF CODE.

9.2.

IT SHALL HAVE BEEN ACCEPTED FOR USE UNDER THE PRESCRIBED CODE TEST METHOD BY THE COMMISSIONER.

PARTITION FRAMING NOTES

1.

ALL FIRE RATED LIGHT GAUGE METAL STUD WALLS AND PARTITIONS REQUIRE GYPSUM BOARD ON BOTH SIDES FOR THE FULL HEIGHT OF THE STUDS (UNLESS SPECIFICALLY DETAILED OTHERWISE).

2.

ALL STUD WALLS AND PARTITIONS SHALL HAVE CONTINUOUS LINES OF BRIDGING SPACED AT 4'-0" ON-CENTER. THE BRIDGING SHALL BE SECURELY FASTENED TO THE STUDS WITH EITHER WELDS OR SCREWS.

3.

ALL STUDS SHALL BE 'C'-TYPE WITH FLANGE STIFFENERS.

4.

THE MATERIALS AND DETAILS SHOWN ARE FOR TYPICAL INSTALLATIONS. WHERE THE STUD MANUFACTURER RECOMMENDS OR LOCAL ORDINANCES AND/OR CODES ARE MORE RESTRICTIVE OR OF HIGHER STANDARDS, THESE SHALL PREVAIL AND APPLY.

TYPICAL FASTENERS:

A.

STEEL STUDS TO STEEL STUDS OR TRACKS:
#8-18 X 1/2" TEKS-2 WITH PHIL PAN-HEAD FOR 25 GA. OR 20 GA.
#10-16 X 9/16" TEK-3 WITH PHIL PAN-HEAD FOR INTERCONNECTION OF 18 GA. OR 16 GA.

B.

STEEL STUDS OR TRACKS TO WOOD PURLINS, GIRDERS, AND BEAMS:
#14-10 X 1/2" H.W.H. TYPE 'S' METAL-TO-WOOD TEKS

C.

STEEL STUDS OR TRACKS TO STRUCTURAL STEEL (WIDE FLANGE BEAMS, COLUMNS, GIRDERS, STEEL TUBE SHAPES, ETC): TEKS-3 OR TEKS-4 GAUGE AND LENGTH AS REQUIRED FOR THE COMBINED THICKNESS OF THE MATERIAL TO BE DRILLED

D.

PLYWOOD TO STEEL STUDS:
#10-24 X 3/4" TEKS-3 (PLYMETAL TEKS) WITH THIN WAFER HEAD.

E.

GYPSUM BOARD TO STEEL STUDS:
#7 X 1/4" TYPE 'S' BUGLE HEAD SCREWS FOR 3/8" TO 5/8" GYPSUM BOARD TO 25 GA. OR 20 GA. METAL STUDS.
#6 X 1/4" TYPE 'S'-12' BUGLE HEAD SCREWS FOR 3/8" TO 5/8" GYPSUM BOARD TO 18 GA. OR 16 GA. METAL STUDS OR TRACKS.

CONSTRUCTION NOTES

1.

WATER PROOF IN ALL WET AREAS.

2.

CONTINUOUS MEMBRANE WATER-PROOFING INSTALLED UNDER FLOOR FINISH AND UP PERIMETER WALLS 6" ABOVE FLOOR LINE OR PER LOCAL CODE; WHICH IS MORE RESTRICTIVE SHALL PREVAIL AND APPLY.

3.

GC IS RESPONSIBLE FOR VERIFYING SITE DIMENSIONS AND CONDITIONS.

4.

EMERGENCY LIGHTING CIRCUITS MUST BE ON A DEDICATED BREAKER. BREAKER LOCKS SHALL INSTALLED ON THE EMERGENCY LIGHTING BREAKER AND THE FIRE ALARM BREAKER.

5.

SITE SUPER TO VERIFY SPACE DIMENSIONS AFTER DEMOLITION.

6.

GC MUST COORDINATE ALL WALL OPENINGS' OVERALL DIMENSION DIRECTLY WITH MILLWORK SHOP DRAWINGS.

7.

STRUCTURAL COLUMNS SHALL BE COVERED BY 5/8" FIRE-RATED DRYWALL AS PART OF THE DEMISING WALL, AND SHALL BE SEALED TO THE UNDERSIDE OF THE STRUCTURE ABOVE IN THE SAME MANNER AS DEMISING WALLS.

8.

FIRESTOP ALL EXISTING AND NEW PENETRATIONS.

9.

ALL FLOOR PENETRATIONS SHALL BE FIRESTOPPED AND SEALED LIQUID TIGHT.

10.

FLOOR TRANSITIONS SHALL BE FLUSH. AT STOREFRONT, ALIGN FINISHED FLOOR WITH BORDER PAVER ELEVATION OF THE WALKWAY WITH A THRESHOLD OF MINIMAL THICKNESS (NOT TO EXCEED 1/2") PROVIDED AT THE DOORS. VINYL, RUBBER, OR METAL REDUCER STRIPS ARE NOT PERMITTED.

11.

CEILING SUPPORT SYSTEMS SHALL ATTACH TO STRUCTURAL MEMBERS ONLY; NOT PERMITTED TO BE ATTACHED TO THE LANDLORD'S ROOF OR FLOOR DECKING, BRIDGING OR WIND BRACING, AND SHALL COMPLY WITH SEISMIC SPECIFICATIONS.

12.

GC TO PROVIDE ACCESS TO ALL TENANT AND LANDLORD SYSTEMS AND CONTROLS WITHIN THE PREMISES, INCLUDING DIRECT ACCESS TO ANY FIRE SPRINKLER VALVE, BY MEANS OF FLUSH ACCESS PANELS.

CONSTRUCTION SYMBOLS

EXISTING WALL TO REMAIN

EXISTING WALL TO DEMOLISH

PROPERTY LINE

BUILDING SEPARATION LINE

N.I.C.

NOT IN CONTRACT

PARTITION TYPE

#

DOOR TAG

#

WINDOW TAG

#

SECTION CUT SYMBOL

#

ELEVATION SYMBOL

#

DETAIL SYMBOL WITH BUBBLE

℄

CENTER LINE

REVISION DELTA

SMOKE DETECTOR / CARBON MONOXIDE DETECTOR, HARD-WIRED

EXIT

EXIT SIGN

EXIT SIGN W/ INTEGRAL EMERGENCY LIGHT

Form 246-1924 Certificate of Occupancy. 16-9087-24-3

BUREAU OF BUILDINGS
BOROUGH OF MANHATTAN, CITY OF NEW YORK

CERTIFICATE OF OCCUPANCY No. XXXXXX 192

Supersedes Certificate of Occupancy No. XXXXX

To the owner or owners of the building: New York **Sept. 10 19 25**

THIS CERTIFIES that the building located on Block **xxx** Lot **xx**
known as **100-10 Commercial Avenue**
under a permit, Application No. **xxx-25** conforms to the approved plans and specifications accompanying said permit and any approved amendments thereto, and to the requirements of the building code and all other laws and ordinances and to the rules and regulations of the board of standards and appeals, applicable to a building of its class and kind, except that in the case of a building heretofore existing and for which no previous certificate of occupancy has been issued and which has not been altered or converted since March 14, 1916, to a use that changed its classification as defined in the building code, this certificate confirms and continues the existing uses to which the building has been put; and

CERTIFIES FURTHER that the building is of **fireproof** construction within the meaning of the building code and may be used and occupied as a **business** building as hereinafter qualified, in a **business** district under the building zone resolution, subject to all the privileges, requirements, limitations, and conditions prescribed by law or as hereinafter specified.

STORY	LIVE LOADS LBS. PER SQ. FT.	PERSONS ACCOMMODATED			USE
		MALE	FEMALE	TOTAL	
Cellar				250	Boiler, Mechanical Rooms, Storage
1st story	120	150	80	230	Department Store (Retail), (2) Accessory Loading Berths
2nd story	120	150	80	230	Department Store (Retail)
3rd story	120	150	80	230	Department Store (Retail)
Roof	100				Roof, Elevator Machine Room

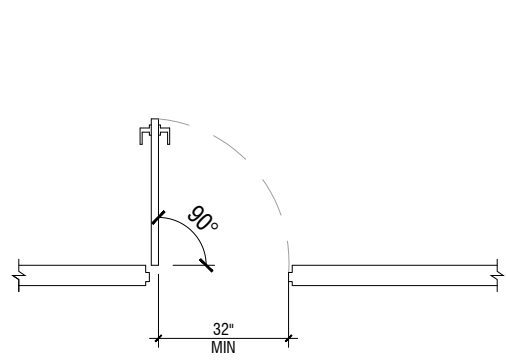
This certificate is issued to **XYZ Department Store**
100-10 Commercial Ave
New York, NY 10000 for the owner or owners.

TR1 & TR8 TABLE			
ENERGY CONSERVATION STATEMENT AND NOTES:			
"TO THE BEST OF MY KNOWLEDGE, BELIEF AND PROFESSIONAL JUDGEMENT, ALL WORK UNDER THIS APPLICATION COMPLIES WITH THE NYCECC 2022."			
TR1: SPECIAL INSPECTION CATEGORIES			
Y	N	INSPECTION CATEGORY	CODE SECTION
		STRUCTURAL STEEL - WELDING	BC 1704.3.1
		STRUCTURAL STEEL - DETAILS	BC 1704.3.2
		STRUCTURAL STEEL- HIGH STRENGTH BOLTING	BC 1704.3.3
		STRUCTURAL COLD-FRAMED STEEL	BC 1704.3.4
		CONCRETE - CAST-IN-PLACE	BC 1704.4
		CONCRETE - PRECAST	BC 1704.4
		CONCRETE - PRESTRESSED	BC 1704.4
		MASONRY	BC 1704.5
		WOOD - INSTALLTION OF HIGH-LOAD DIAPHRAMS	BC 1704.6.1
		WOOD - INSTALLATION OF METALPLATE-CONNECTED TRUSSES	BC 1704.6.2
		WOOD - INSTALLATION OF PREFABRICATED I-JOISTS	BC 1704.6.3
		SUBGRADE INSPECTION	BC 1704.7
		SUBSURFACE CONDITIONS - FILL PLACEMENT & IN-PLACE DENSITY	BC 1704.7.2 & BC 1704.7.3
		SUBSURFACE INVESTIGATIONS (BORINGS/TEST PITS)	TR4
		DEEP FOUNDATION ELEMETS	TR5
		HELICAL PILES (BB #2014-020)	TRSH
		WALL PANELS, CURATIN WALLS, AND VENEERS	BC 1704.9
		SPRAYED FIRE-RESISTANT MATERIALS	BC 1704.10
		MASTIC AND INTUMESCENT FIRE-RESISTANT COATINGS	BC 1704.11
		EXTERIOR INSULATION AND FINISH SYSTEMS (EIFS)	BC 1704.12
		ALTERNATIVE MATERIALS - OTCR BUILDING BULLETINS#	BC 1704.13
		SMOKE CONTRL SYSTEMS	BC 1704.14
		MECHANICAL SYSTEMS	BC 1704.15
		FUEL-OIL STORAGE AND FUEL-OIL PIPING SYSTEMS	BC 1704.16
		HIGH-PRESSURE STEAM PIPING (WELDING)	BC 1704.17
		HIGH TEMPERATURE HOT WATER PIPING (WELDING)	BC 1704.18
		HIGH-PRESSURE FUEL-GAS PIPING (WELDING)	BC 1704.19
		STRUCTURAL STABILITY - EXISTING BUILDINGS	BC 1704.20.1
		EXCAVATIONS - SHEETING, SHORING AND BRACING	BC 1704.20.2
		UNDERPINNING	BC 1704.20.3 & BC 1814
		MECHANICAL DEMOLITION	BC 1740.20.4
		RAISING AND MOVING OF A BUILDING	BC 1704.20.5
		SOIL PERCOLATION TEST - PRIVATE ON SITE STORM WATER DRAINAGE DISPOSAL SYSTEMS, AND DETENTION FACILITIES	BC 1704.21.1.2
		PRIVATE ON-SITE STORM WATER DRAINAGE DISPOSAL SYSTEMS, AND DETENTION FACILITIES	BC 1704.21.2
		INSTALLATION	BC 1704.22
		INDIVIDUAL ON-SITE PRIVATE SEWAGE DISPOSAL SYSTEMS INSTALLATION	BC 1704.22.2
		SOIL PERCOLATION TEST - INDIVIDUAL ON-SITE PRIVATE SEWAGE DISPOSAL SYSTEMS	BC 1704.22.3
		SPRINKLER SYSTEMS	BC 1704.23
		STAND PIPESYSTEMS	BC 1704.24
		HEATING SYSTEMS	BC 1704.25
		CHIMNEYS	BC 1704.26
Y		FIRE-RESISTANT PENETRATIONS AND JOINTS	BC 1704.27
		ALUMINUM WELDING	BC 1704.28
		FLOOD ZONE COMPLIANCE	BC 1704.29 & BC 6105
		LUMINOUS EGRESS PATH MARKINGS	TR7
		EMERGENCY AND STANDBY POWER SYSTEMS (GENERATORS)	BC 1704.31
		POST-INSTALLED ANCHORS (BB #2014-018, 2014-019)	BC 1704.32
		SEISMIC ISOLATION SYSTEMS	BC 1701.8
		CONCRETE DESIGN MIX	TR3
		CONCRETE DAMPLING AND TESTING	TR2
TR8: PROGRESS INSPECTION CATEGORIES			
Y	N	INSPECTION CATEGORY	CODE SECTION
		PRELIMINARY	28-116.2.1 & BC 110.2
		FOOTING AND FOUNDATION	BC 110.3.1
		LOWEST FLOOR ELEVATION	BC 110.3.2
		STRUCTRAL WOOD FRAME	BC 110.3.3
Y		ENERGY CODE COMPLIANCE INSPECTIONS	TR8
Y		FIRE-RESISTANCE RELATED CONSTRUCTION	BC 110.3.4
		PUBLIC ASSEMBLY EMERGENCY LIGHTING	28-116.2.2
		FINAL	28-116.2.4.2, BC 110.5, DIRECTIVE 14 OF 1975, AND RCOW §101-10
TR8: ENERGY CODE PROGRESS INSPECTION			
Y	N	INSPECTION CATEGORY	CODE SECTION
		PROTECTION OF EXPOSED FOUNDATION INSULATION	(IA1), (IA1)
Y		INSULATION PLACEMENT AND R-VALUES	(IA2), (IA2)
Y		FENESTRATION AND DOOR U-FACTOR AND PRODUCT RATINGS	(IA3), (IA3)
Y		FENESTRATION AIR LEAKAGE	(IA4), (IA4)
Y		FENESTRATION AREAS	(IA5), (IA5)
Y		AIR BARRIER - VISUAL INSPECTION	(IA6), (IA6)
		AIR BARRIER - TESTING	(IA7), (IA7)
		AIR BARRIER CONTINUITY PLAN TESTING/INSPECTION	(IA8)
		VESTIBULES	(IA9)
		FIREPLACES	(IB1), (IB1)
		VENTILATION AND AIR DISTRIBUTION SYSTEM	(IB2)
		SHUTOFF DAMPERS	(IB2)
		HVAC-R AND SERVICE WATER HEATING EQUIPMENT	(IB3), (IB3)
		HVAC-R AND SERVICE WATER HEATING SYSTEM CONTROLS	(IB4), (IB4)
		HVAC-R AND SERVICE WATER PIPING DESIGN AND INSULATION	(IB5), (IB5)
		DUCT LEAKAGE TESTING, INSULATION AND DESIGN	(IB6), (IB6)
		METERING	(IC1), (IC1)
		LIGHTING IN DWELLING UNITS	(IC2)
Y		INTERIOR LIGHTING POWER	(IC2), (IC3)
Y		EXTERIOR LIGHTING POWER	(IC4)
Y		LIGHTING CONTROLS	(IC5)
		ELECTRICAL MOTORS AND ELEVATORS	(IC6)
		MAINTENANCE INFORMATION	(ID1), (ID1)
		PERMANENT CERTIFICATE	(ID2)
		ELECTRIC VEHICLE SERVICE EQUIPMENT REQUIREMENTS	(ID3)

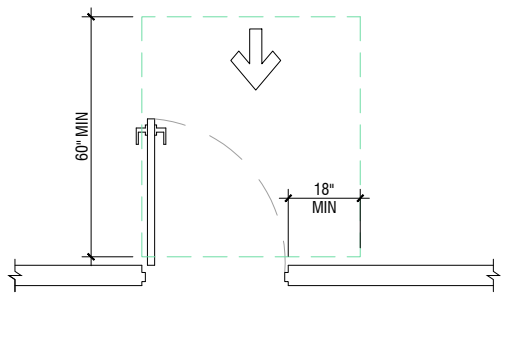
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404 DOORS, DOORWAYS, AND GATES

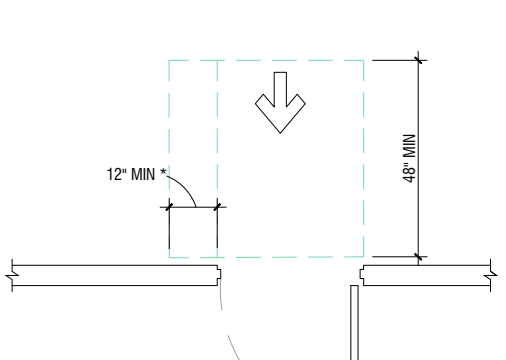
404.2.4.2 DOORWAYS WITHOUT DOORS OR GATES. SLIDING DOORS, AND FOLDING DOORS. DOORWAYS LESS THAN 36 INCHES WIDE WITHOUT DOORS OR GATES, SLIDING DOORS, OR FOLDING DOORS SHALL HAVE MANEUVERING CLEARANCES COMPLYING WITH TABLE 404.2.4.2. APPROACH FROM FRONT, PERPENDICULAR TO DOORWAY MINIMUM MANEUVERING CLEARANCE IS TO BE 48", PARALLEL TO DOORWAY TO BE 0". SEE FIGURE (a) FRONT APPROACH.



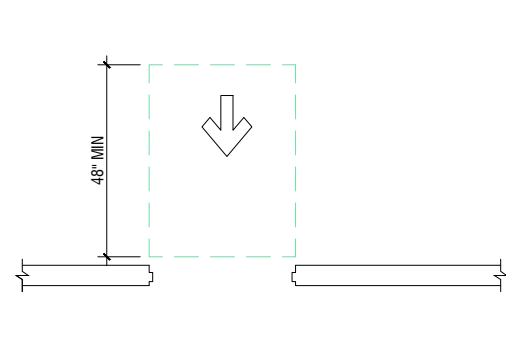
HINGED DOOR CLEAR WIDTH



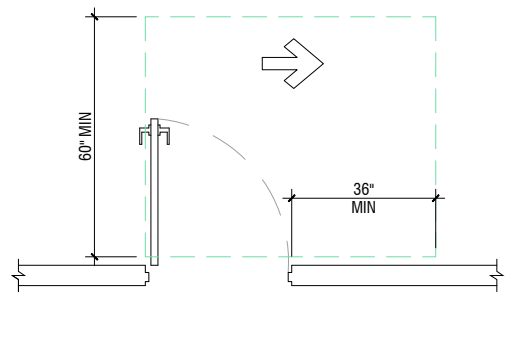
FRONT APPROACH, PULL SIDE



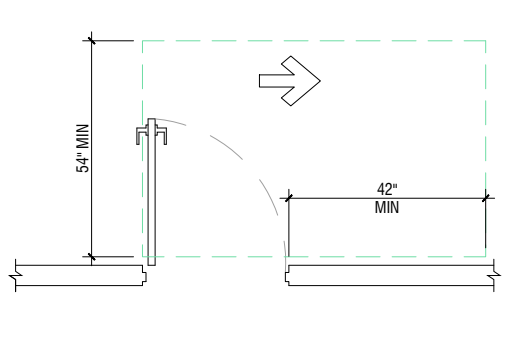
FRONT APPROACH, PUSH SIDE
*IF BOTH CLOSER AND LATCH ARE PROVIDED



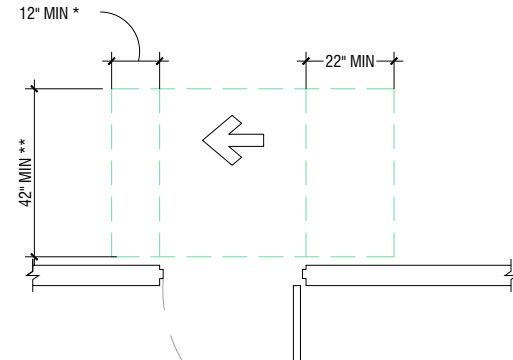
FRONT APPROACH
AT DOORWAYS WITHOUT DOORS



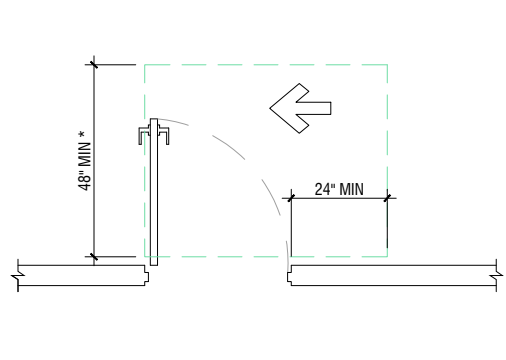
HINGE APPROACH, PULL SIDE



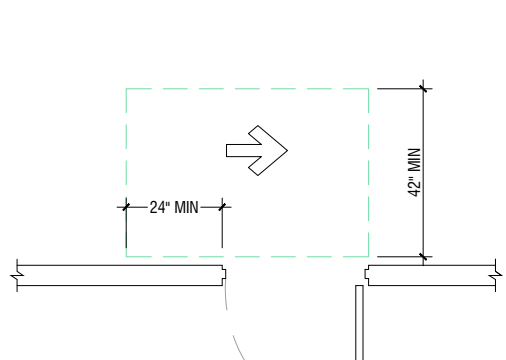
HINGE APPROACH, PULL SIDE



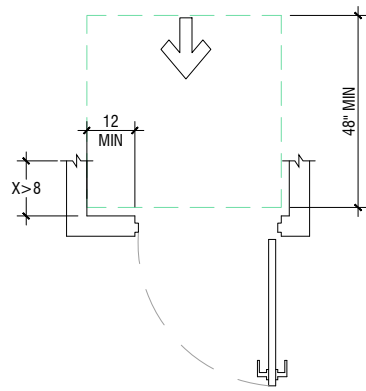
HINGE APPROACH, PUSH SIDE
*IF BOTH CLOSER AND LATCH ARE PROVIDED
** 48 MIN IF BOTH CLOSER AND LATCH PROVIDED



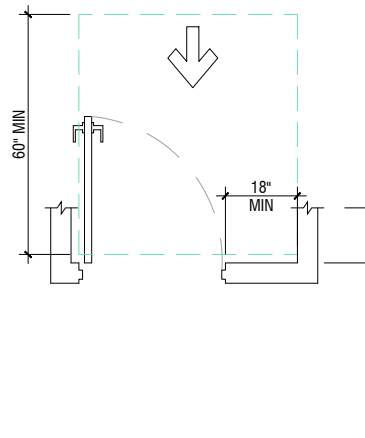
LATCH APPROACH, PULL SIDE
*54 MIN IF CLOSER IS PROVIDED



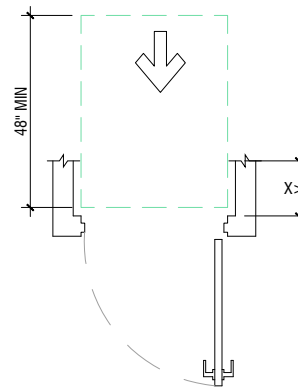
LATCH APPROACH, PUSH SIDE
*48 MIN IF CLOSER IS PROVIDED



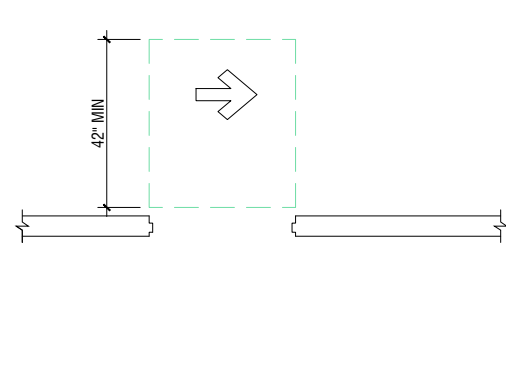
PUSH SIDE, DOOR PROVIDED WITH BOTH
CLOSER AND LATCH AT RECESSED DOOR



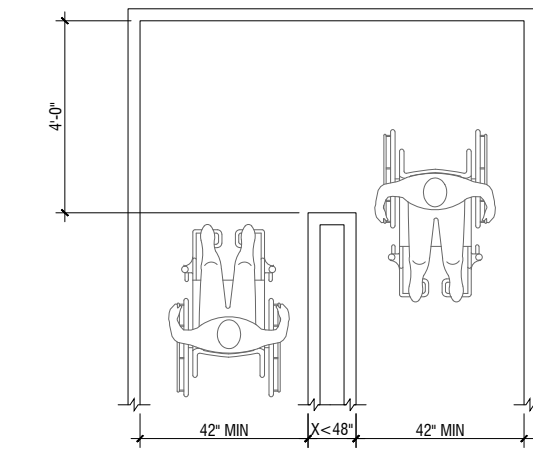
PULL SIDE
AT RECESSED DOOR



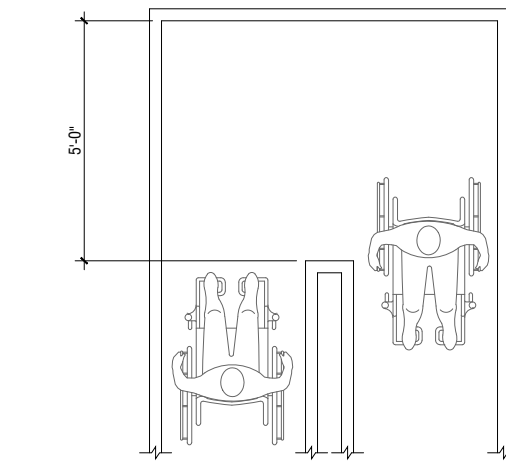
PUSH SIDE
AT RECESSED DOOR



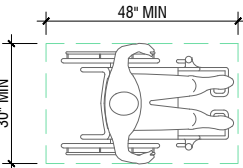
SIDE APPROACH
AT DOORWAYS WITHOUT DOORS



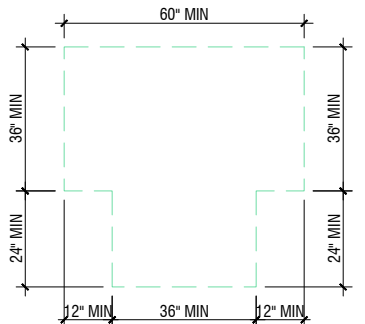
CLEAR WIDTH AT 180° TURN



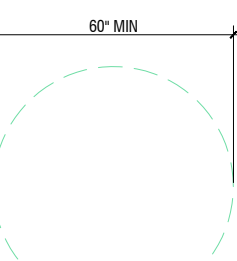
CLEAR WIDTH AT 180° TURN (EXCEPTION)



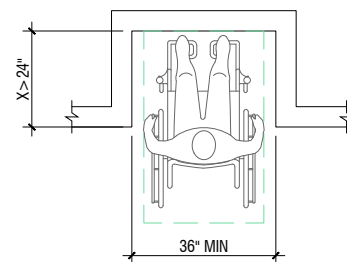
CLEAR FLOOR SPACE



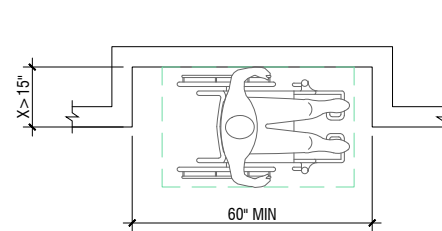
T-SHAPE



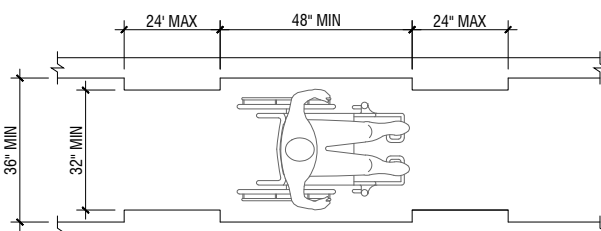
CIRCULAR



FORWARD APPROACH

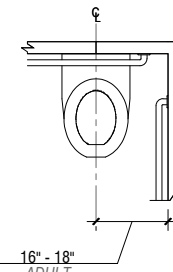


PARALLEL APPROACH

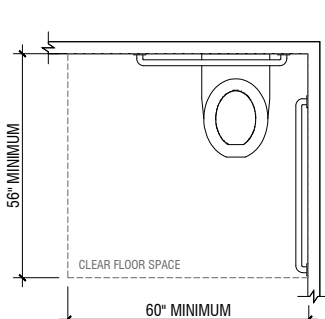


CLEAR WIDTH OF AN ACCESSIBLE ROUTE

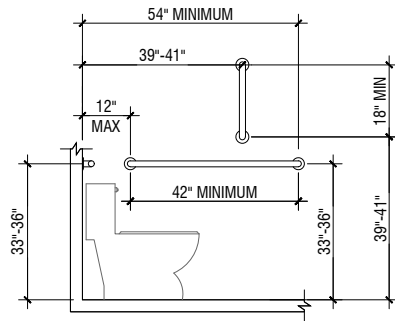
BATHROOMS



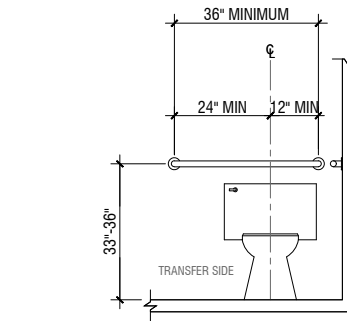
604.2
WATER CLOSET LOCATION



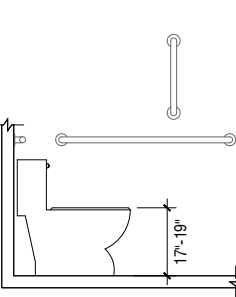
604.3.1
SIZE OF CLEARANCE AT WATER CLOSETS



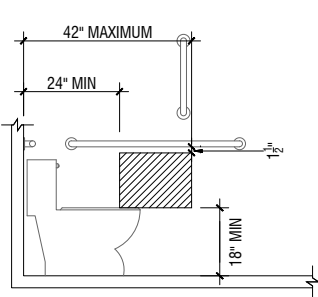
604.5.1
SIDE WALL GRAB BAR AT WATER CLOSETS



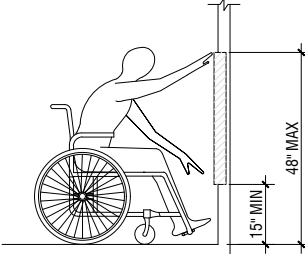
604.5.2
REAR WALL GRAB BAR AT WATER CLOSETS



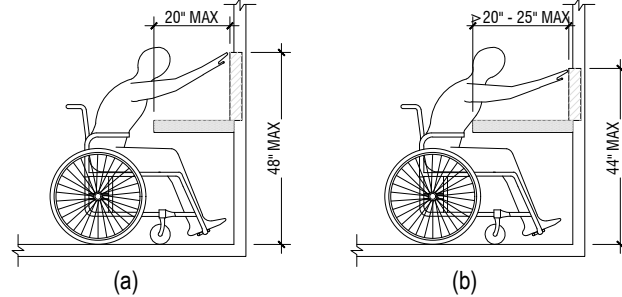
604.4
WATER CLOSET SEAT HEIGHT



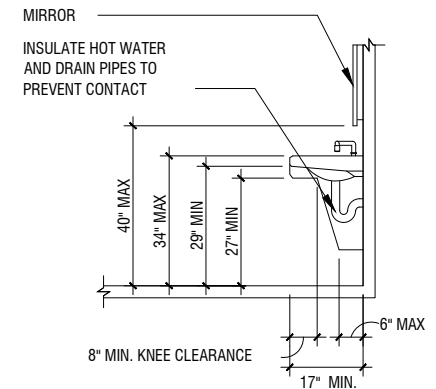
604.7
PROTRUDING DISPENSER OUTLET LOCATION



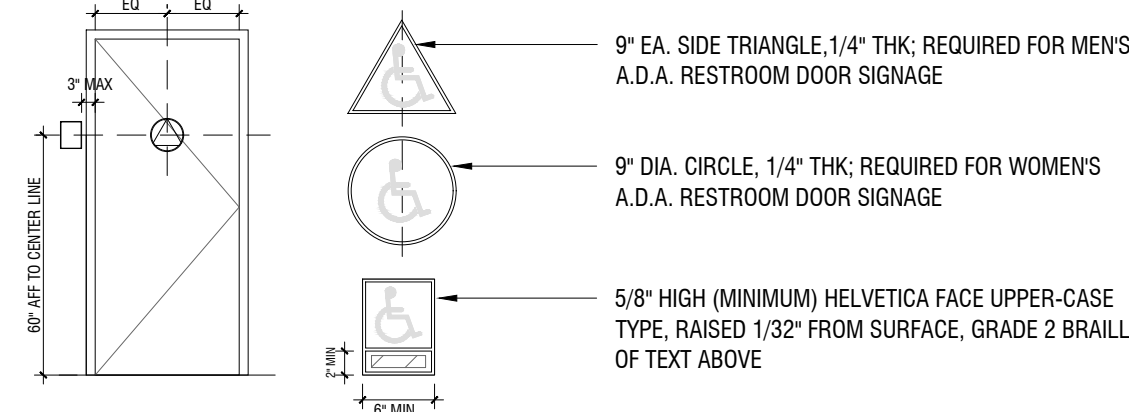
UNOBSTRUCTED FORWARD REACH



OBSTRUCTED HIGH FORWARD REACH

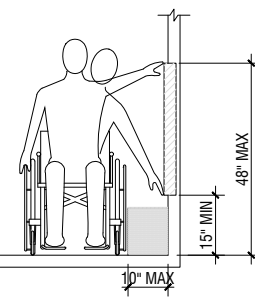


CLEARANCE AND HEIGHT REQUIREMENTS AT LAVATORY

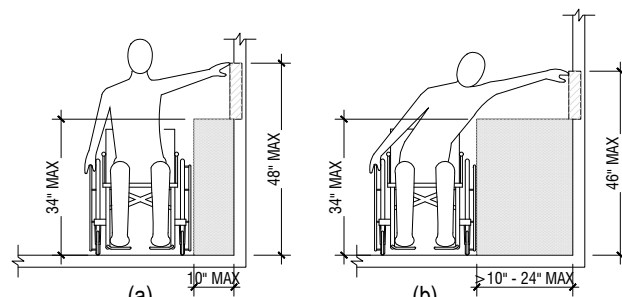


BATHROOM SIGNAGE

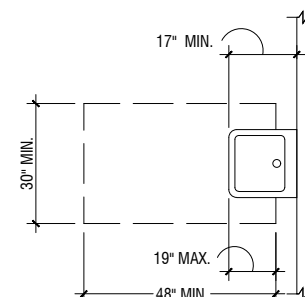
505.10.1
TOP AND BOTTOM HANDRAIL EXTENSIONS AT RAMPS
RAMP HANDRAILS SHALL EXTEND HORIZONTALLY ABOVE THE LANDING 12 INCHES (305 MM) MINIMUM BEYOND THE TOP AND BOTTOM OF RAMP RUNS. EXTENSIONS SHALL RETURN TO A WALL, GUARD, OR FLOOR, OR SHALL BE CONTINUOUS TO THE HANDRAIL OF AN ADJACENT RAMP RUN.



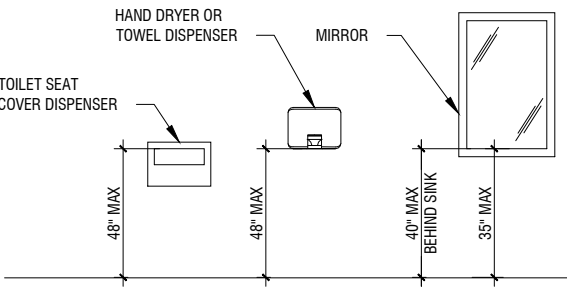
UNOBSTRUCTED SIDE REACH



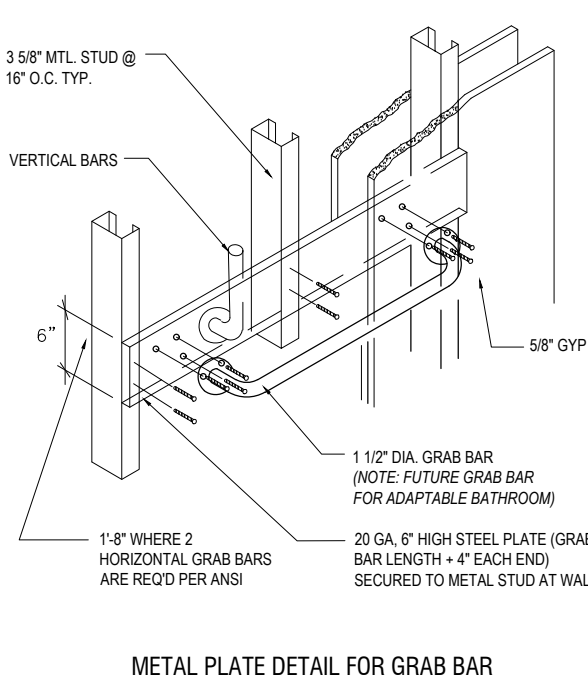
OBSTRUCTED HIGH SIDE REACH



FORWARD APPROACH



OTHER FIXTURE AND ACCESSORY MOUNTING HEIGHTS



METAL PLATE DETAIL FOR GRAB BAR

GRAB BAR NOTE
(2014 NYC BC APPENDIX P, P102.8.3 EXCEPTION):
GRAB BARS ARE **NOT REQUIRED** TO BE INSTALLED WHERE REINFORCEMENT FOR SUCH GRAB BARS IS INSTALLED AND LOCATED TO PERMIT FUTURE INSTALLATION OF GRAB BARS COMPLYING WITH SECTION P102.8.3.
PROPOSED:
1. GRAB BAR REINFORCEMENT TO BE INSTALLED PER METAL PLATE DETAIL.
2. NO GRAB BARS WILL BE INSTALLED UNLESS FUTURE TENANT WITH DISABILITIES REQUEST PRIOR TO MOVE IN.

ACCESSIBILITY NOTES

ACCESSIBILITY NOTES

ACCESSIBILITY & USABILITY FOR THE PHYSICALLY HANDICAPPED SHALL BE PROVIDED IN PUBLIC AREAS. THE PROVISIONS SHALL COMPLY WITH THE REQUIREMENTS OF THE AMERICAN NATIONAL INSTITUTE, INC. (ANSI A 117.1) AS REQUIRED BY THE NYC BUILDING CODE, SHOWN GRAPHICALLY ON THIS SHEET AND IN NOTES BELOW.

305 CLEAR FLOOR OR GROUND SPACE

305.1 GENERAL. CLEAR FLOOR OR GROUND SPACE SHALL COMPLY WITH 305.

305.2 FLOOR SURFACE. FLOOR SURFACES OF A CLEAR FLOOR SPACE SHALL COMPLY WITH SECTION 302. CHANGES IN LEVEL ARE NOT PERMITTED WITHIN THE CLEAR FLOOR SPACE. (EXCEPTION: SLOPES NOT STEEPER THAN 1:48 SHALL BE PERMITTED)

305.3 SIZE. THE CLEAR FLOOR SPACE SHALL BE 48 INCHES MINIMUM IN LENGTH AND 30 INCHES MINIMUM IN WIDTH.

305.4 KNEE AND TOE CLEARANCE. UNLESS OTHERWISE SPECIFIED, CLEAR FLOOR OR GROUND SPACE SHALL BE PERMITTED TO INCLUDE KNEE AND TOE CLEARANCE COMPLYING WITH SECTION 306.

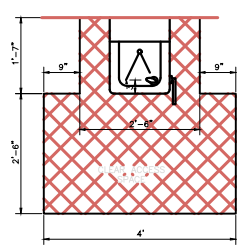
404 DOORS AND DOORWAYS

404.1 GENERAL. DOORS AND DOORWAYS THAT ARE PART OF AN ACCESSIBLE ROUTE SHALL COMPLY WITH SECTION 404

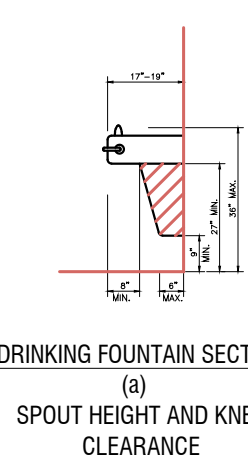
404.2.1 DOUBLE-LEAF DOORS AND GATES. AT LEAST ON OF THE ACTIVE LEAVES OF DOORWAYS WITH TWO LEAVES SHALL COMPLY WITH SECTION 404.2.2 AND 4.4.2.3

404.2.2 CLEAR WIDTH. DOORWAYS SHALL HAVE A CLEAR OPENING WIDTH OF 32 INCHES MINIMUM. CLEAR OPENING WIDTH OF DOORWAYS WITH SWINGING DOORS SHALL BE MEASURED BETWEEN THE FACE OF DOOR AND STOP, WITH THE DOOR OPEN 90 DEGREES. OPENINGS MORE THAN 24 INCHES IN DEPTH AT DOORS AND DOORWAYS WITHOUT DOORS SHALL PROVIDE A CLEAR OPENING WIDTH OF 36 INCHES MINIMUM. THERE SHALL BE NO PROJECTIONS INTO THE CLEAR OPENING WIDTH LOWER THAN 34 INCHES ABOVE THE FLOOR. PROJECTIONS INTO THE CLEAR OPENING WIDTH BETWEEN 34 INCHES AND 80 INCHES ABOVE THE FLOOR SHALL NOT EXCEED 4 INCHES.

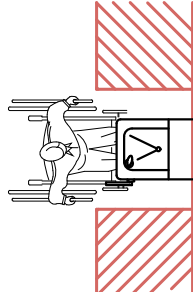
DRINKING FOUNDATION REQUIREMENT



DRINKING FOUNTAIN PLAN



DRINKING FOUNTAIN SECTION
(a) SPOUT HEIGHT AND KNEE CLEARANCE



(b) CLEAR FLOOR SPACE

OWNER:

NYC
Buildings

ICC
INTERNATIONAL
CODE COUNCIL

ARCHITECT :

MEP ENGINEER :

STRUCTURAL ENGINEER :

PROJECT:

CASE STUDY 02
VERTICAL
ENLARGEMENT

DOB NOW JOB NUMBER:

DOB APPROVAL STAMP:

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

DRAWING TITLE:

**ACCESSIBILITY DIAGRAMS
AND RELATED NOTES**

PROJECT #:

DRAWN BY:

SHEET TITLE :

G-003.00

ARCHITECTURAL CODE ANALYSIS - NYC Existing Building Code - Case Study 2 - Addition & Alteration Level 1

PART 01

SUMMARY				
Project Type		Change of Occupancy and Interior Alteration		
Job Description / Scope of Work		The project is a 2-story vertical addition for office use (Occupancy Group B – Business) to a 3-story + cellar prior code department store (Occupancy Group M – Mercantile) constructed in 1925. The project includes an Alteration Level 1 in the existing building to accommodate the addition.		
		Two existing stairs are extended to provide means of egress for the addition. A 1st floor entry lobby and two new elevators are provided to serve the addition. An Alteration Level 1 to the existing building includes the new office entrance and lobby, new elevators serving the addition, column reinforcement, partial floor slab repairs, and MEP/FP alterations. The roof slab above the existing 3rd floor is removed, but the steel framing is maintained. A new 4th floor slab is provided as part of the addition. Existing bulkheads are modified to match the new 4th floor level.		
		The existing building is Construction Class 1 Fireproof (1938 Code), equivalent to 2022 BC Construction Type IB. The addition is Construction Type IB. The existing building cellar is sprinklered and the addition 4th and 5th floors will be sprinklered. The building is considered "unsprinklered" because the entire building is not sprinklered.		
Stories	Existing: 3 stories + cellar,			
	Proposed vertical addition: 2 stories			
	Total: 5 stories + cellar			
Height	Existing height: 44 ft.			
	Addition height: 30 ft.			
	Total height: 74 ft. (< 75 ft., not a high rise)			
Occupancy	Existing: Occupancy Group M, Mercantile Addition: Occupancy Group B, Business (Offices)			
Construction Class	Existing: Class 1 Fireproof (1938 Code) equivalent to 2022 BC Constuction Type IB Addition: 2022 BC Class IB			
Existing Building Floor Area (SF) including cellar level		80,634 SF		
Addition Floor Area (SF)		33,038 SF		
Proposed Total Building Area (SF)		113,672 SF		
Prior Code Building (Y/N)?		Y, Building constructed in 1925, prior to July 1, 2008.		
EBC CONSIDERATIONS				
Work Area (SF)		25,496 SF (see Work Area analysis on Dwg. G-010)		
Work Area / Exist. Building Area %		31.62%		
Work Area relative to Building Area		<50%		
EBC Alteration Level (Level 1 or Level 2)		Level 1		
Change of Occupancy (Y/N)?		N		
Addition (Y/N)?		Y		
Addition Floor Area (SF)		33,038 SF		
Floor Surface Area		Increase in Floor Surface Area is < 110% (see Floor Surface Area analysis on Dwg. G-009)		
Floor surface area to remain (FSAR)		80,634 SF		
Floor surface area of addition		53,038 SF		
Floor surface area proposed (FSAP)		133,672 SF		
% increase in floor surface area		65.78% < 110%		
Tenant/Occupant Protection Plan required?		No. Building will be vacant during construction.		
Will the "Building safety performance and scoring method" be used? (Y/N)		N		
Applicable EBC Chapters (in addition to Chapter 1 – Administration and Chapter 2 – Definitions)		Chapter 3 – General Applicable Provisions		
		Chapter 7 - Structural		
		Chapter 8 – Alteration Level 1		
		Chapter 11 – Additions		
		Chapter 15 – Additional Safeguards During Construction or Demolition...		
Certificate of Occupancy required (AC 28-118)? (Y/N)		Y		
ARCHITECTURAL CODE ANALYSIS				
ADDITION				
GENERAL PROVISIONS				
Section	Subject	Requirements	Applies?	Compliance
1101.1	Scope	An addition to an existing building or structure shall comply with the NYC BC as required for new construction without requiring the existing building to be altered to meet such new construction requirements, except as required by this chapter. Where an addition impacts the existing building, that portion shall comply with this code.	Y	Complies. The addition is designed to comply with the NYC BC.
1101.2	Creation or extension of noncompliance.	An addition shall not create or extend any noncompliance in the existing building to which the addition is being made.	Y	Complies. The addition does not create or extend any noncompliance in the existing building.

1101.3	Other work.	Any alteration work within an existing building to which an addition is being made shall comply with the applicable requirements for the work as classified in Chapter 6.	Y	Complies. Work within the existing building is an Alteration Level 1. See analysis below.
1101.4	Work that increases floor surface area of an existing building by more than 110%.	Where an addition including alteration made to an existing building causes the existing floor surface area to be increased by more than 110% per Section 302.7, the entire building shall be made to comply with the provisions of the NYC BC as if it were a new construction hereafter erected.	N	Not applicable. The addition does not increase the existing floor surface area by more than 110%. See compliance analysis under Section 302.7.2 below.
302.7.2	Calculation of increase in floor surface area.	To determine the percentage by which the floor surface area is increased, the following formula shall be used:	Y	I = (FSAP – FSAR) / FSAR x 100
		I = (FSAP – FSAR) / FSAR x 100		(133,672 - 80,634) / 80,634 x 100 = 65.78% < 110%
				See Dwg. G-009 for Floor Surface Area Analysis.
303.6	Interior environment.	Alterations, additions, conversions and changes of use or occupancy shall comply with BC Chapter 12 and this code.	Y	Complies. The addition complies with BC Chapter 12.
HEIGHTS AND AREAS				
Section	Subject	Requirements	Applies?	Compliance
1102.1	Height limitations.	No addition shall increase the height of an existing building beyond that permitted under the applicable provisions of BC Chapter 5 for new construction.	Y	Complies. Per BC Table 504.3 allowable height for Groups B & M with Type IB construction is 160 ft. (non-sprinklered). Per BC Table 504.4 allowable number of stories for Groups B & M with Type IB construction is unlimited. Proposed building height is 74 ft. & 5 stories.
1102.2	Area limitations.	No addition shall increase the area of an existing building beyond that permitted under the applicable provisions of BC Chapter 5 for new construction unless fire separation, as required by the BC, is provided.	Y	Complies. Per BC Table 504.4 allowable area for Groups B & M with Type IB construction is unlimited. Proposed building area is 113,672 SF.
1102.5	Existing buildings within the fire district.	In accordance with Section 302.6 and BC Appendix D, an existing building shall not be increased in height or area unless it is of a type of construction permitted for new buildings within the fire district. Nor shall any existing building be hereafter extended on any side, nor square footage or floors added within the existing building, unless such modifications are of a type of construction permitted for new buildings within the fire district.	Y	Complies. Existing and proposed Construction Type IB complies. See Section 302.6.
302.6	Existing buildings in fire districts.	Alterations, additions, changes of use or occupancy and relocations of existing buildings inside the fire district, as described in BC Appendix D, shall be subject to BC Chapter 6 and Sections 302.6.1 and 302.6.2	Y	Complies. Existing and proposed Construction Type IB complies.
302.6.1	Group H-1 prohibited.	New Group H-1 occupancies shall be prohibited within the fire district.	N	No Group H-1 occupancy is proposed.
302.6.2	Changes to buildings.	An existing building shall not be hereafter altered, increased in height or area, changed to a new use or occupancy, relocated or moved into the fire district unless such building is of a type of construction permitted for new buildings within the fire district in accordance with the BC.	Y	Complies. Existing building (Group M occupancy) of Construction Type IA and proposed addition (Group B occupancy) of Construction Type IB complies with BC Chapters 5 & 6.
STRUCTURAL				
Section	Subject	Requirements	Applies?	Compliance
	See structural analysis and drawings.		Y	
FIRE PROTECTION				
Section	Subject	Requirements	Applies?	Compliance
	See fire protection code analysis and plans.		Y	
MEANS OF EGRESS				
Section	Subject	Requirements	Applies?	Compliance

OWNER:
NYC Buildings

ARCHITECT :

MEP ENGINEER :

STRUCTURAL ENGINEER :

PROJECT:

CASE STUDY 02
VERTICAL ENLARGEMENT

DOB NOW JOB NUMBER:

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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

DRAWING TITLE:

CODE ANALYSIS

PROJECT #:

DRAWN BY:

SHEET TITLE :

G-004.00

PART 02

1105.1	General.	Means of egress from an addition to an existing building or structure shall comply with BC Chapter 10 and with this section. Means of egress from additions shall be permitted to utilize existing exit facilities of the building or structure in accordance with Sections 1105.2 through 1105.3.	Y	Complies. The addition extends existing Stairs A & B as means of egress. Stairs A & B shall be in full compliance with BC Chapter 10 from highest level of addition to level of exit discharge and from the cellar level to the level of exit discharge.
1105.2	The addition does not increase the existing floor surface area by more than 110%.	Where the addition including alteration made to the building does not exceed the existing floor surface area by more than 110% per Section 302.7, the existing exit facilities shall be permitted to be utilized by the new addition to discharge onto the outside, subject to Sections 1105.2.1 and 1105.2.2. Such existing exit facilities shall be in compliance with the terms of their approval prior to the proposed addition.	Y	Complies. Addition does not increase existing floor surface area by more than 110%. See Section 302.7.2 analysis.
1105.2.1	Prior code buildings.	Means of egress components serving the addition shall comply with BC Chapter 10 or as permitted by Section 305.5.	Y	Complies. Means of egress serving the addition complies with BC Chapter 10 and EBC Section 305.5. See Dwg. G-100 and G-101 for Occupancy & Egress Analysis for Addition.
1105.2.1.1	Vertical exits.	In prior code buildings, existing vertical exits may be extended to serve the addition, maintaining its width, in compliance with Section 305.5 provided the occupant load of the new addition shall not exceed the capacity of the existing stairs.	Y	Complies. Stairs A & B are extended to serve the addition and comply with Section 305.5. See Dwg. G-100 and G-101 for Occupancy & Egress Analysis for Addition.
305.5	Special provisions for prior code buildings.	Alterations, additions, changes of occupancy or relocations of prior code buildings that require changes to means of egress shall be permitted to comply with Sections 305.5.1 through 305.5.19 of this code. Other means of egress components shall comply with BC Chapter 10.	Y	Complies. See Section 305.5 analysis below. See Dwg. G-100 and G-101 for Occupancy & Egress Analysis for Addition.
305.5.1	Occupant load and exit capacity.	The occupant load and exit capacity of prior code buildings or spaces shall be determined in accordance with BC Chapter 10.	Y	Complies. Occupant load and exit capacity shall comply with BC Chapter 10. See Dwg. G-100 and G-101 for Occupancy & Egress Analysis for Addition.
305.5.2	Accessible means of egress.	Accessible means of egress are not required in prior code buildings where the level of alterations does not trigger full building compliance with the accessibility provisions of the BC.	Y	Complies. Proposed addition does not trigger full building compliance with accessibility, as the increase in floor surface area does not exceed 110%, in accordance with Section 1106.2. Therefore, accessible means of egress are not required.
305.5.3	Remoteness.	Alterations that result in the same or a lesser hazard occupancy category as described in EBC Section 1005 may maintain the existing remoteness of exits.	Y	Complies. Occupancy Groups M & B are both classified as hazard category 3 per EBC Table 1005.2. Stairs A & B serving occupancy Group B are separated by more than 50% of the length of the maximum overall diagonal dimension of the area served, per BC 1007.1.1.
305.5.4	Travel distance.	The maximum travel distance measured from the most remote point within a story along the natural and unobstructed path of egress travel to an exterior exit door at the level of exit discharge, an entrance to an interior exit stairway, interior exit ramp, exit passageway, horizontal exit, exterior exit stairway, or exterior exit ramp shall not exceed the limits specified in BC Chapter 10.	Y	Complies. Travel distance in the addition complies with BC Chapter 10. Group B max. travel distance: 200 ft. in unsprinklered buildings per BC Table 1017.2. Although the cellar is sprinklered and the addition's 4th & 5th floors are sprinklered, the entire building is considered "unsprinklered" because the 1st, 2nd and 3rd floors are not sprinklered. Proposed max. travel distance on 4th & 5th floors: 179 ft. See Dwg. G-100 and G-101 for travel distance diagrams.
305.5.11	Stairs.	New or relocated stairs shall comply with BC Chapter 10 unless otherwise provided for in this code. Alteration or vertical extension of existing stairs shall comply with Section 305.5.11.1.	Y	Applies to the extension of Stairs A & B to the addition floors.
305.5.11.1	Stair width.	The width of existing stairs shall be measured as the clear width between walls, grilles, guards, or newel posts. Stair stringers may project into the required width not more than 2 inches on each side of the stair. Alterations to existing stairs shall maintain a minimum width of 44 inches.	Y	Complies. Existing Stairs A & B are 44 inches wide and extensions of the stairs to the 4th & 5th floors and addition roof maintain a width of 44 inches.

305.5.11.2	Riser height and tread depth.	Riser height and tread depth for new stairs and vertical extension of existing stairs shall comply with BC Chapter 10. Alteration or replacement within the same shaft made to existing stairs where the existing space and construction does not allow a reduction in pitch or slope shall be permitted to maintain the existing riser height and tread depth and shall comply with Table 305.5.11.2. Riser height and tread depth shall be constant from story to story.	Y	Due to the size of the existing stair shafts, treads (11") and risers (7") in accordance with BC Chapter 10 cannot be achieved. Riser height of 7.5" and tread depth of 10" are provided at Stair A & B extensions to the 4th & 5th floors to match the riser and tread dimensions of the existing stair runs. Riser height and tread depth are constant from story to story between the existing building and the addition to maintain safe exit travel for occupants. See Dwg. A-300.
				<i>Note: DOB interpretation of Section 305.5.11.2 is required to confirm that max. riser height and min. tread depth for prior code buildings is permitted for Stairs A & B extensions.</i>
Table 305.5.11.2	Max. Riser Height and Min. Tread Depth in Prior Code Buildings.	Max. riser height: 7-3/4"	Y	Complies. Riser height: 7.5". Tread depth: 10". Calculation: 2 x 7.5" + 1 x 10" = 25"
		Min. tread depth: 9-1/2" + nosing		
		2R + 1T > 24" and < 25-1/2"		
305.5.13	Handrails.	Where handrails are altered or added, they shall comply with BC Chapter 10.	Y	Complies. Handrails at Stair A & B extensions and within existing Stair A & B stair runs comply with BC Chapters 10 & 16.
305.5.14	Guards.	Where the alteration or repair of a building involves the addition or replacement of guards, such guards shall comply with BC Chapters 10 and 16.	Y	Complies. Guards at Stair A & B extensions and within existing Stair A & B stair runs comply with BC Chapters 10 & 16.
BC 1010.1.9.11	Stairway doors.	Interior stairway means of egress doors shall be openable from both sides without the use of a key or special knowledge or effort.	Y	Stairway doors at Stairs A & B are proposed to be locked on stair side to separate the Group M and B occupancies, subject to approval of a CCD1 to permit such locking with safety measures.
	Exception 2.	This section shall not apply to doors arranged in accordance with Section 403.5.3.		The Owner requests approval for the separation of the Group M and B occupancies for security reasons. A CCD1 will be submitted to permit the locking of stairway doors on the stair side in Stairs A & B with safety measures guided by the provisions of BC 403.5.3, as detailed below.
	BC 403.5.3	Stairway door operation.		A door locked from the stair side may be permitted provided that such door is equipped with an automatic fail-safe system for opening in the event of the activation of any automatic fire detection system, or when any elevator recall is activated, or when any signal is received from the fire command center. Such door shall be deemed as openable from the stair side. Stair reentry signs shall be posted throughout the stairway indicating that reentry is provided only during fire emergencies.
BC 403.5.3.1				Stairway communication system.
ACCESSIBILITY				
Section	Subject	Requirements	Applies?	Compliance
306.1	Compliance.	Alterations, including minor alterations, repairs excluding ordinary repairs, and alterations affecting an area containing a primary function, changes of use or occupancy, additions and relocation of existing buildings, shall comply with BC Chapter 11 and this code.	Y	Complies. Addition is designed to be accessible in accordance with BC Chapter 11.
1106.1	Minimum requirements.	Accessibility provisions of BC Chapter 11 for new construction shall apply to additions. An addition that affects the accessibility to, or contains an area of, primary function shall also comply with the requirements of Sections 806 and 906, as applicable.	Y	Complies. Addition is designed to be accessible in accordance with BC Chapter 11. Portions of the existing building being altered, including the new 1st floor office lobby, are addressed under the Alteration, Level 1 section of this analysis.
1106.2	Additions requiring accessibility throughout a building.	Where an addition, including any alteration made to the building, increases the existing floor surface area of the existing building by more than 110%, the entire building shall be made to comply with BC Chapter 11 as if it were new construction hereafter erected.	N	Not applicable, work does not increase the floor surface area by more than 110%. See Section 302.7.2 analysis above and Dwg. G-009.

ARCHITECTURAL CODE ANALYSIS - NYC Existing Building Code - Case Study 2 - Addition & Alteration Level 1

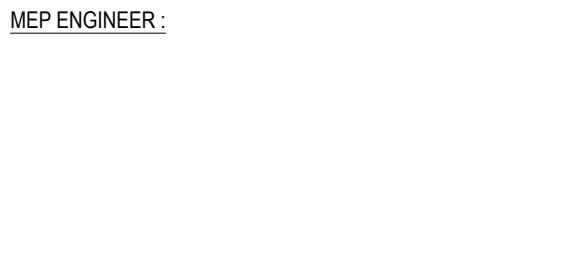
PART 03

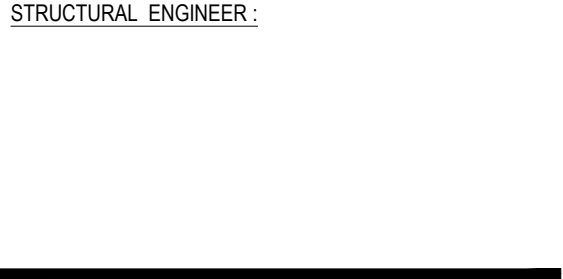
ENERGY CONSERVATION				
Section	Subject	Requirements	Applies?	Compliance
1107.1	Minimum requirements.	Additions to existing buildings shall conform to the energy requirements of the NYC Energy Conservation Code as they relate to new construction.	Y	Complies. See Energy Code analysis.
OTHER BUILDING SYSTEMS				
Section	Subject	Requirements	Applies?	Compliance
	See MEP code analysis and drawings.			
1108.6	Elevators	Where additions are made to existing buildings, the alterations and additions to existing elevators shall be in accordance with BC Chapter 30 and BC Appendix K. New elevators comply with the Building Code. Elevator work is filed under a separate application.	Y	Complies. Modifications to existing elevators at existing roof / new 4th floor level are in accordance with Chapter 30 and BC Appendix K. New elevators comply with the Building Code. Elevator work is filed under a separate application.
EXISTING BUILDING – ALTERATION LEVEL 1				
GENERAL PROVISIONS				
Section	Subject	Requirements	Applies?	Compliance
General	Supplemental requirements.	Where the work area on any floor exceeds 50% of that floor area, the supplemental requirements of Chapter 8 apply.	Y	The work area does not exceed 50% of the area of the cellar, 1st and 2nd floors. The work area does exceed 50% of the 3rd floor area, so that supplemental requirements apply to the 3rd floor. See work area analysis and diagrams on Dwg. G-010.
302.4	New and replacement materials, assemblies and details.	Except as otherwise required or permitted by this code, materials, assemblies, and details permitted by the NYC Construction Codes shall be used. Exception: For partial and restorative repairs, where such repairs are necessitated by deteriorating façade or roof conditions and are required by the NYC Construction Codes, like materials, assemblies and details are permitted if no unsafe condition is created...	Y	Complies. Partial existing building façade repairs incorporate like materials, assemblies and details as permitted by the Exception to Section 302.4.
302.6	Existing buildings in fire districts.	Alterations, additions, changes of use or occupancy and relocations of existing buildings inside the fire district, as described in BC Appendix D, shall be subject to BC Chapter 6 and Sections 302.6.1 and 302.6.2	Y	Complies. Existing Construction Type IB complies. See Addition analysis above.
302.7.2	Calculation of increase in floor surface area.	To determine the percentage by which the floor surface area is increased, the following formula shall be used: I = (FSAP – FSAR) / FSAR x 100	Y	Complies. Increase in floor surface area does not exceed 100%. See calculation under Addition analysis above.
BUILDING ELEMENTS AND MATERIALS				
Section	Subject	Requirements	Applies?	Compliance
303.2	Fire resistive elements.	The fire-resistance ratings of existing building elements and materials shall not be reduced.	Y	Complies. The fire-resistance rating of existing building elements is maintained.
303.5	Mold resistance.	Alterations, repairs, additions and relocations of buildings shall comply with BC Sections 2506 and 2509 relating to areas subject to moisture or water damage.	Y	Complies. Mold resistant finishes (tile and mold resistant gypsum board) are used in 3rd floor bathrooms.
303.6	Interior environment.	Alterations, additions, conversions and changes of use or occupancy shall comply with BC Chapter 12 and this code.	Y	Complies. The alteration complies with BC Chapter 12.
801.3	New and replacement materials, assemblies and details.	Materials, assemblies and details for all new work shall comply with Section 302.4.	Y	Complies. Materials, assemblies and details used within the work area comply with the NYC Construction Codes.
803.2	Shafts and vertical openings.	Existing shafts and vertical openings shall comply with the provisions of BC Chapter 7 except as stated in Sections 803.2.1 through 803.2.3 for prior code buildings.	Y	Provisions for prior code buildings apply. Existing shafts within the work area are limited to plumbing risers and the boiler flue and are enclosed in 2-hr fire rated construction.

803.2.1	Existing shafts and vertical openings in prior code buildings.	Existing shafts and vertical openings that are lawfully enclosed in accordance with a prior code shall not be reduced in fire-resistance rating.	Y	Complies. Existing and new shafts and vertical openings within the work area are enclosed with 2 hr. fire-rated construction and rating is not reduced.
803.2.2	Supplemental shaft and floor opening enclosure requirements.	Where the work area on any floor exceeds 50% of that floor area, the enclosure requirements of Section 803.2 shall apply to vertical openings other than stairways throughout the floor.	Y	Complies. Supplemental requirements apply to 3rd floor. All vertical openings comply with the enclosure requirements of Section 803.2.
803.2.3	Supplemental stairway enclosure requirements in prior code buildings.	Where the work area on any floor exceeds 50% of that floor area, stairways that are part of the means of egress serving the work area shall, at a minimum, be enclosed with 1-hour fire rated construction on the highest work area floor and all floors below.	Y	Complies. Supplemental requirements apply to 3rd floor. Stairs A, B & C have 2 hour rated enclosures at the 3rd floor and all floors below.
803.4	Interior finish.	The interior finish of walls and ceilings in exits and corridors in the work area shall comply with the NYC BC Chapter 8.	Y	Complies. Interior finishes in Stairs A & B and new elevator lobby on 1st floor are in accordance with BC Table 803.11 Class "A" finishes for unsprinklered buildings.
803.4.1	Supplemental interior finish requirements.	Where the work area on any floor exceeds 50% of the floor area, Section 803.4 shall also apply to the interior finish in exits and corridors serving the work area throughout the floor.	Y	Complies. Supplemental requirements apply to 3rd floor. Interior finishes in Stairs A, B & C serving the work area throughout the floor are in accordance with BC Table 803.11 Class "A" finishes .
803.9	Existing buildings in fire districts.	Alterations made to existing buildings shall comply with Section 302.6 and Sections 803.9.1 through 803.9.3.	Y	Complies. See Addition portion of this analysis for compliance with Section 302.6 and below for compliance with Section 803.9.1 and 803.9.2. Section 803.9.3 is not applicable.
803.9.1	Construction type.	Every existing building, room, or space hereafter altered shall be of a construction type as indicated in BC Chapter 6 including the required fire resistance rating of bearing walls, floors, roofs and their supporting structural members.	Y	Complies. Existing and proposed Construction Type IB complies.
803.9.2	Roof covering.	Roof covering in the fire district shall conform to the requirements of Class A or B roof coverings as defined in BC Section 1505.	Y	Complies. Roof coverings at the addition (4th floor setback roof and main roof) are Class A.
803.10	Architectural condition assessment.	Where a building is being altered and the work area exceeds 50% of the floor area, the registered design professional of record shall visually assess the condition of fire-resistant building elements and assemblies within the work area, and egress elements serving the work area on that same story.	Y	Complies. Supplemental requirements apply to 3rd floor. See Architectural condition assessment report.
FIRE PROTECTION				
Section	Subject	Requirements	Applies?	Compliance
	See fire protection code analysis and drawings.		Y	
EGRESS				
Section				
805.1	Means of Egress – Scope.	The requirements of this section shall be limited to work areas that include exits or corridors shared by more than 1 tenant within the work area in which Level 1 alterations are being performed, except that, where specified for supplemental requirements, they shall apply throughout the floor on which the work areas are located or otherwise beyond the work area.	N	Work area does not include exits or corridors shared by more than one tenant.
ACCESSIBILITY				
Section	Subject	Requirements	Applies?	Compliance

OWNER:


ARCHITECT :

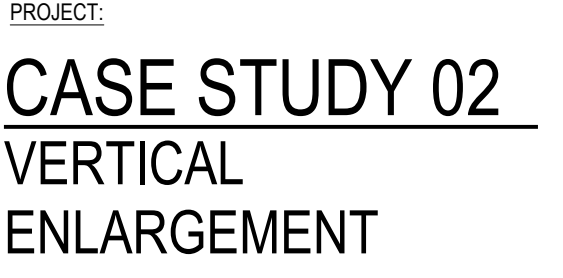

MEP ENGINEER :


STRUCTURAL ENGINEER :


PROJECT:

CASE STUDY 02

VERTICAL ENLARGEMENT

DOB NOW JOB NUMBER:


DOB APPROVAL STAMP:


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

DRAWING TITLE:

CODE ANALYSIS

PROJECT #:

DRAWN BY:

SHEET TITLE :

G-006.00

ARCHITECTURAL CODE ANALYSIS - NYC Existing Building Code - Case Study 2 - Addition & Alteration Level 1
PART 04

306.1	Compliance.	Alterations, including minor alterations, repairs excluding ordinary repairs, and alterations affecting an area containing a primary function, changes of use or occupancy, additions and relocation of existing buildings, shall comply with BC Chapter 11 and this code.	Y	General. See Section 806.
306.1.2	Alterations affecting an area containing a primary function.	Alterations affecting an area containing a primary function shall comply with Section 806.3.	Y	Complies. See Section 806.3.
806.2	Compliance.	A facility that is altered shall comply with the applicable provisions in Sections 806.2.1 through 806.2.14 of this code and Chapter 11 of the NYC BC to the extent of the alteration.	Y	See compliance with the applicable sections and Dwg. G-003 and A-100 through A-105.
806.2.1	Entrances and accessible routes.	Where an alteration includes alterations to an entrance or a route that would be required to be accessible by this code, such entrance and route shall be made accessible in accordance with BC Chapter 11.	Y	Complies. New office lobby on 1st floor is accessible and new accessible elevators provide an accessible route to the office floors of the addition. See Dwg. G-003 and A-101.
806.2.9	Toilet and bathing rooms.	Where it is technically infeasible to alter existing toilet and bathing rooms to be accessible, an accessible family or assisted-use toilet or bathing room constructed in accordance with the requirements of BC Sections 1109.2.1 through 1109.2.1.6 is permitted...	Y	Complies. 3rd floor bathrooms comply with BC Chapter 11 requirements.
806.2.12	Thresholds.	The maximum height of thresholds at doorways shall be in accordance with ICC A117.1.	Y	Complies. Thresholds at new office lobby entrance doors are in accordance with ICC A117.1. See Dwg. G-003 and A-101.
806.3	Alterations affecting an area containing a primary function.	Where an alteration affects the accessibility to or contains an area of primary function, the route to the primary function area, including entrances, shall be accessible in accordance with this section and Section 806.3.1.	Y	Complies. The route to the area of primary function from the office entrance and lobby via the new elevators to the office floors is accessible.
STRUCTURAL				
Section	Subject	Requirements	Applies?	Compliance
	See Structural code analysis and drawings.		Y	
ELECTRICAL				
Section	Subject	Requirements	Applies?	Compliance
	See MEP code analysis and drawings.		Y	
MECHANICAL				
Section	Subject	Requirements	Applies?	Compliance
	See MEP code analysis and drawings.		Y	
PLUMBING				
Section	Subject	Requirements	Applies?	Compliance
	See MEP code analysis and drawings.		Y	
FUEL GAS				
Section	Subject	Requirements	Applies?	Compliance
	See MEP code analysis and drawings.		Y	
ELEVATORS & CONVEYING SYSTEMS				
Section	Subject	Requirements	Applies?	Compliance
812.1	General	Alterations made to existing elevators and conveying systems shall comply with Chapter 30 and ASME A17.1 as modified by Appendix K of the NYC BC, as applicable, and this section.	N	New elevators within work area comply with BC Chapter 30 & ASME 17.1 as modified by BC Appendix K. Work related to existing elevators for this application is limited to elevator overruns and machine room modifications due to rebuilding the existing bulkheads and complies BC Chapter 30 & ASME 17.1 as modified by BC Appendix K.
ENERGY CONSERVATION				
Section	Subject	Requirements	Applies?	Compliance
	Minimum requirements.	Level 1 alterations are permitted without requiring the entire building to comply with the energy requirements of the NYC Energy Conservation Code. Level 1 alterations shall conform to the energy requirements of ECC Chapters R5 or C5, Existing Buildings.	Y	Complies. See energy code analysis.

CHAPTER 15 - ADDITIONAL SAFEGUARDS DURING CONSTRUCTION OR DEMOLITION			
FOR EXISTING BUILDINGS AND OCCUPIED BUILDINGS			
Subject	Requirements	Applies?	Compliance
Section 1502 – Safeguards for Occupants			
Occupant protection required.	When construction or demolition activity occurs in an occupied building... protective means shall be installed and maintained as necessary to provide reasonable protection for the occupants against hazard and nuisance.	N	Not applicable. Building will be vacant during demolition and construction.
Section 1504 – Occupant Protection Plan			
Occupant protection plan - Where required.	Alteration, construction, or partial demolition work performed in a building that will be occupied during the work... shall be conducted in accordance with an occupant protection plan.	N	Not applicable. Building will be vacant during demolition and construction.
Section 1505 – Maintaining Means of Egress			
Maintenance of means of egress.	Means of egress shall be maintained at all times during construction or demolition operations in occupied buildings.	N	Not applicable. Building will be vacant during demolition and construction. Means of egress are maintained for workers.
SECTION 1506 – AUTOMATIC SPRINKLER SYSTEM			
Sprinkler systems during alteration or demolition.	Existing sprinkler systems in buildings undergoing an alteration or demolition shall comply with the requirements of BC Section 3303.7.4 and EBC Section 1506.2.	Y	Complies. See Fire Protection code analysis.



MEP ENGINEER

STRUCTURAL ENGINEER :

PROJECT

CASE STUDY 02

VERTICAL ENLARGEMENT

DOB NOW JOB NUMBER:DOB APPROVAL STAMP:

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

DRAWING TITLE:

CODE ANALYSIS

PROJECT #:

DRAWN BY

SHEET TITLE :

G-007.00

ARCHITECTURAL CONDITION ASSESSMENT REPORT - NYC Existing Building Code -Case Study 2 - Addition & Alteration Level 1

Section 803.10 – Architectural condition assessment. Where a building is being altered and the work area exceeds 50% of the floor area, the registered design professional of record shall visually assess the condition of fire-resistant building elements and assemblies within the work area, and egress elements serving the work area on that same story. The results and findings of the assessment shall be incorporated in the scope of work as needed. Where the assessment reveals unsafe conditions or deteriorated building elements, such elements shall be remediated, and the unsafe conditions corrected. See Assessment Table below.

Section 803.10.1 Hazardous conditions. All conditions noted as hazardous to life, safety or health that are not immediately corrected shall be brought to the immediate attention of the commissioner.

Indicate locations of conditions identified by assessment on drawings and provide photographs.

Project Information				
Application No.:	XXXXXXXXXX			
Address:	XXXXXXXXXX			
Borough:	XXXXXXXXXX			
Block:	XXXX			
Lot(s):	XX			
Assessment of Floor #s:	3			
Assessment Table				
Element	Floor #	Condition Assessment	Corrective Action	
			Corrected	Included in Scope
			(Describe correction)	(indicate drawing #s)
1. Shafts and vertical openings enclosures.	3	Existing shafts and vertical openings are in code compliant condition and enclosed in 2 hr. rated walls as required by the 1968 code and comply.	NA	Removal of roof slab above 3rd floor will require partial rebuilding of shaft and vertical opening enclosures.
2. Stair A, B and C enclosures and material combustibility.	3	Stair A, B and C are in code-compliant condition including enclosure and interior finish as required by the 1968 code.	NA	Removal of roof slab above 3rd floor will require partial rebuilding of stair enclosures.
3. Fire walls and fire-rated partitions, including penetrations and protection of windows and doors.	3	Fire-rated partitions to be in code compliant condition. New pipe penetrations to be fire-stopped.	NA	New fire-rated patitions to comply with BC requirements. New duct/pipe penetrations shall be fire-stopped and provided with fire/smoke dampers per BC Chapter 7.
4. Protection of lot line windows.	3	Not applicable. No lot line windows.	NA	NA
5. Fire escape and access thereto, including attachment to exterior wall, stairs, balconies, fire protection of windows and railings.	3	Not applicable. No fire escape.	NA	NA
Section 803.10 Hazardous conditions.	3	None observed.	NA	NA
ASSESSED CONDITIONS BEYOND THE WORK AREA TO MEET SUPPLEMENTAL REQUIREMENTS				
803.2.2 Supplemental shaft & floor opening requirements.	3	Entire 3rd floor is included in the work area. Existing shafts and vertical openings are in code compliant condition. See Item 1 above.	NA	Removal of roof slab above 3rd floor will require partial rebuilding of shaft and vertical opening enclosures.
803.2.3 Supplemental stairway enclosure requirements.	3	Stair A, B and C are in code-compliant condition including enclosure and interior finish as required by the 1968 code, as noted in Item 2 above.	NA	Removal of roof slab above 3rd floor will require partial rebuilding of stair enclosures.
803.4.1 Supplemental interior finish requirements.	3	Interior finishes in Stairs B, and C are observed to be compliant.	NA	Removal of roof slab above 3rd floor will require partial rebuilding of stair enclosures with code compliant finishes.
805.4.2.1 Supplemental requirements for door swing.	3	Exit access doors at the 3rd floor swing in the direction of egress.	NA	Complies, no action needed.
805.4.3.1 Supplemental requirements for door closing.	3	Fire doors throughout the exit stairways from the level of the work area to the exit discharge are provided with self-closing mechanisms.	NA	Complies, no action needed.
805.7.1 Supplemental requirements for means of egress lighting.	3	Means of egress lighting is provided throughout the 3rd floor and complies.	NA	Removal of roof slab above 3rd floor will require reinstallation of means of egress lighting.
805.8.2 Supplemental requirements for exit signs.	3	Exit signs are provided throughout the 3rd floor.	No	Removal of roof slab above 3rd floor will require reinstallation of exit signs.
Signature and Attestation				
Applicant of Record:				

I state that the above assessment is accurate to the best of my knowledge, based on visual observations.				
Seal and Signature				

OWNER:

NYC Buildings

ICCINTERNATIONAL CODE COUNCIL

ARCHITECT :

MEP ENGINEER :

STRUCTURAL ENGINEER :

PROJECT:

CASE STUDY 02

VERTICAL ENLARGEMENT

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:

ARCHITECTURAL ASSESSMENT REPORT

PROJECT # :DRAWN BY :SHEET TITLE :

G-008.00

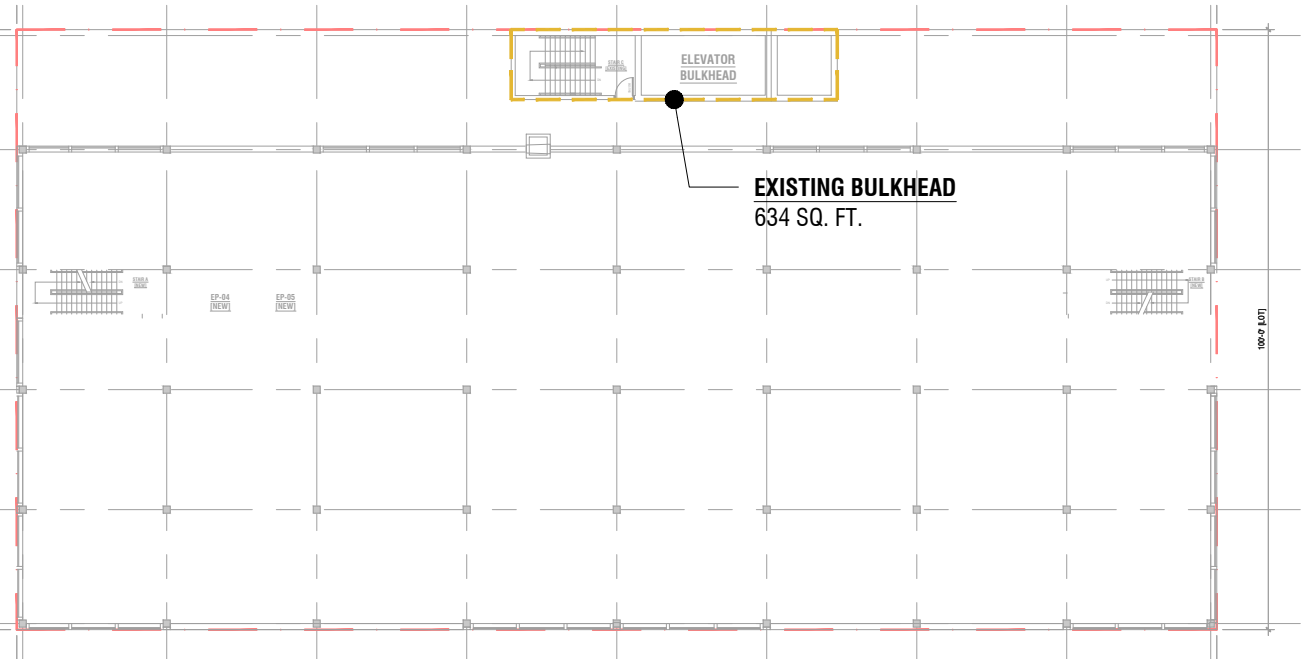
FLOOR AREA AND FLOOR SURFACE AREA

FLOOR SURFACE AREA			
EXISTING BUILDING	EXISTING FSA [SF]	DEMOLISHED / REMOVED [SF]	EXISTING FSA TO REMAIN [SF]
CELLAR	20,000		20,000
1ST FLOOR	20,000		20,000
2ND FLOOR	20,000		20,000
3RD FLOOR	20,000		20,000
EXIST. ROOF	20,000	-20,000	0
EXIST. BULKHEADS	634		634
FSAR			80,634
ADDITION			
4TH FLOOR			20,000
5TH FLOOR			16,117
ADDITION ROOF			16,117
ADDITION BULKHEAD ROOFS			804
Addtion FSAP			53,038
Exist. FSAR			80,634
Total FSAP			133,672
Floor Surface Area Calculation (EBC Section 302.7.2)			
I = (FSAP – FSAR) / FSAR x 100			
65.78%	(133,672 - 80,634) / 80,634 x 100		< 110% increase in FSA

EXISTING FLOOR SURFACE AREA

ADDITION FLOOR SURFACE AREA

EXISTING



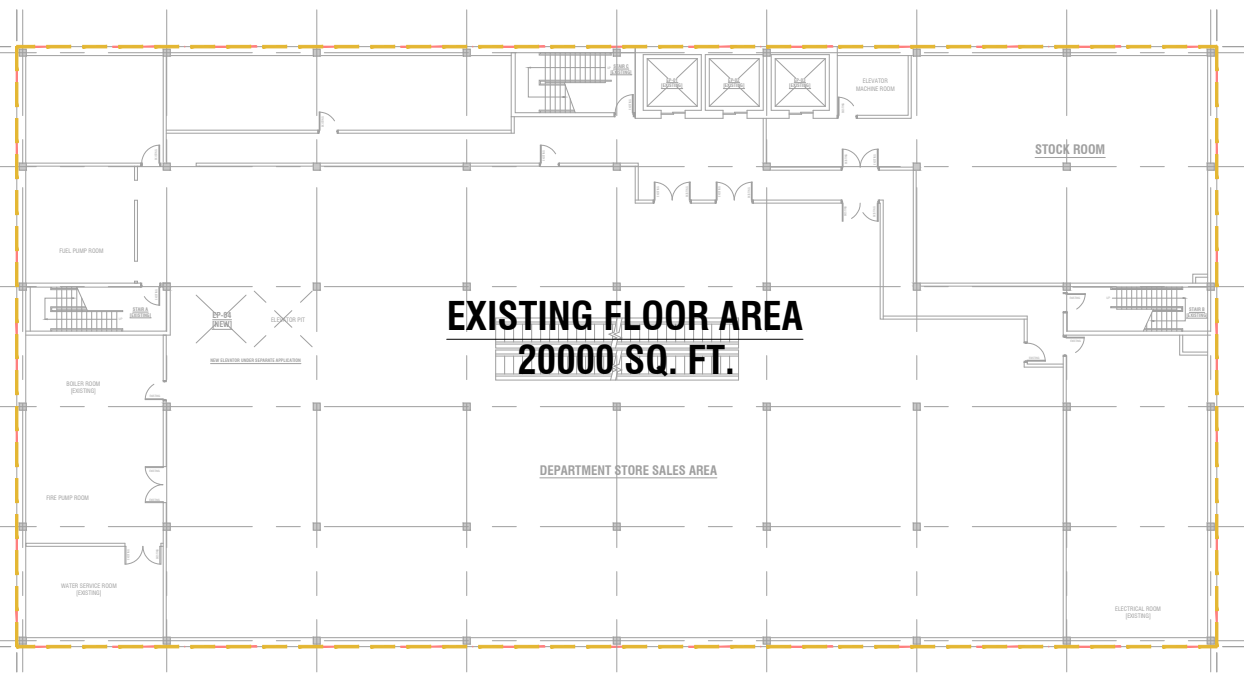
EXISTING - BULKHEAD



EXISTING - 2ND & 3RD FLOOR

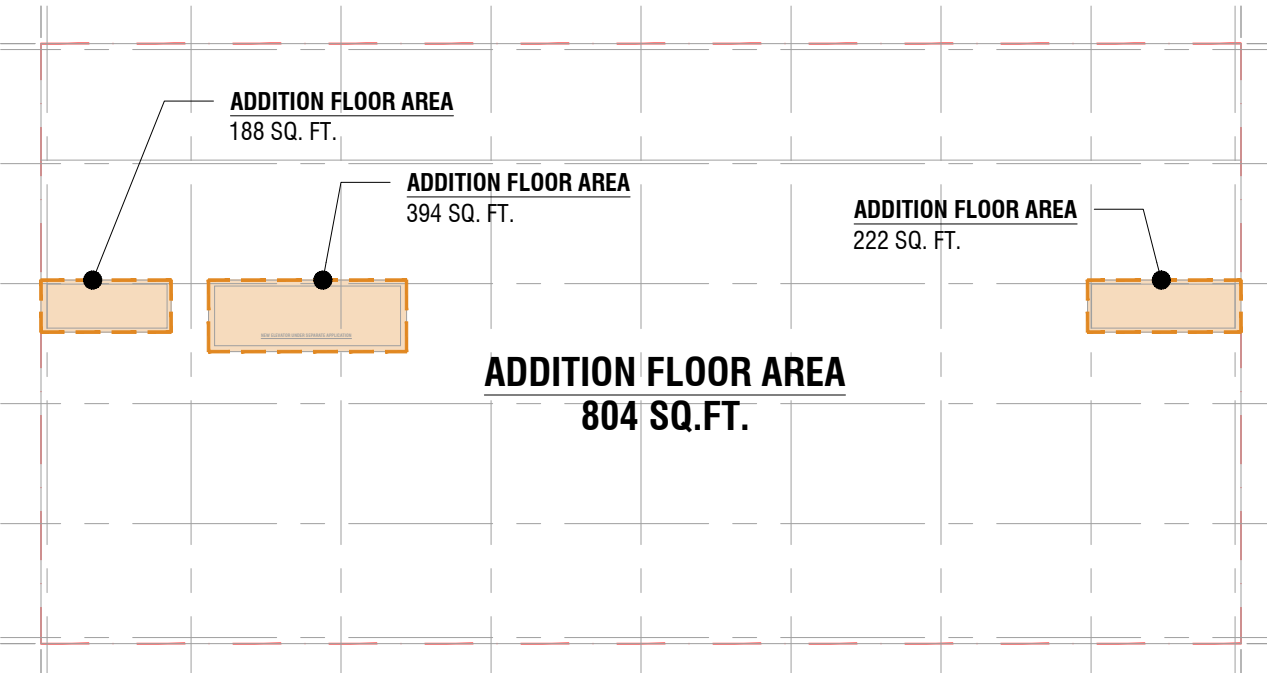


EXISTING - GROUND FLOOR

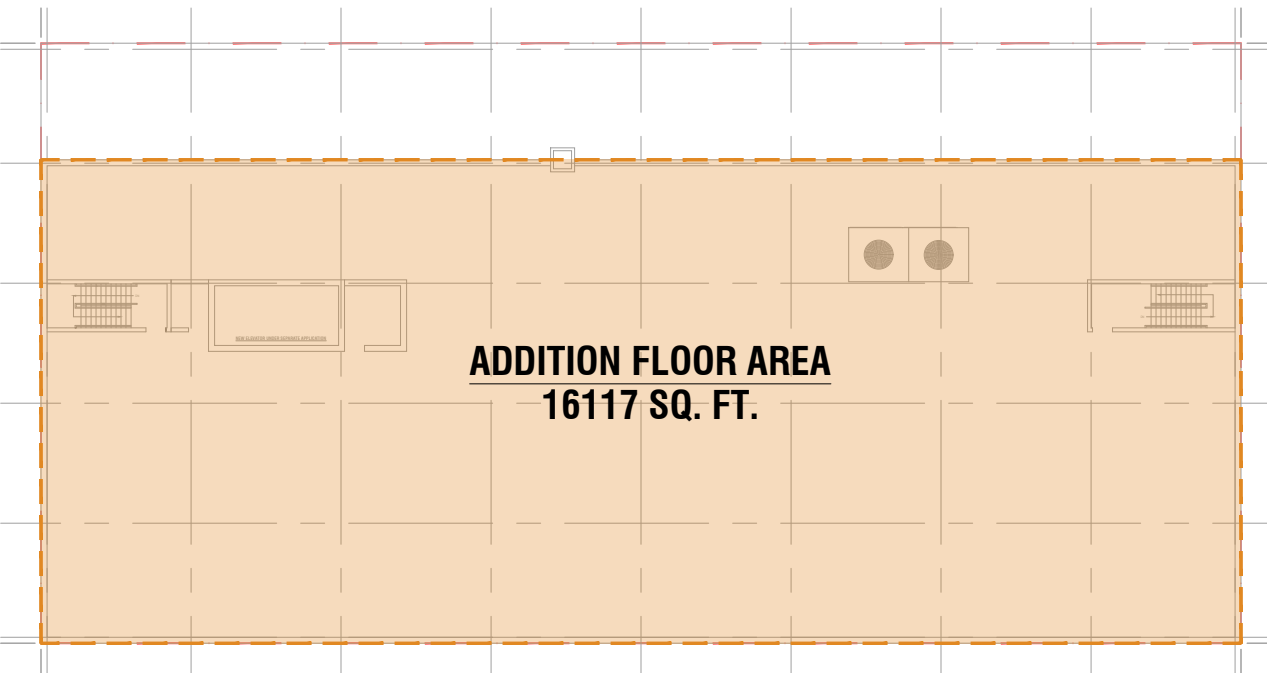


EXISTING - CELLAR

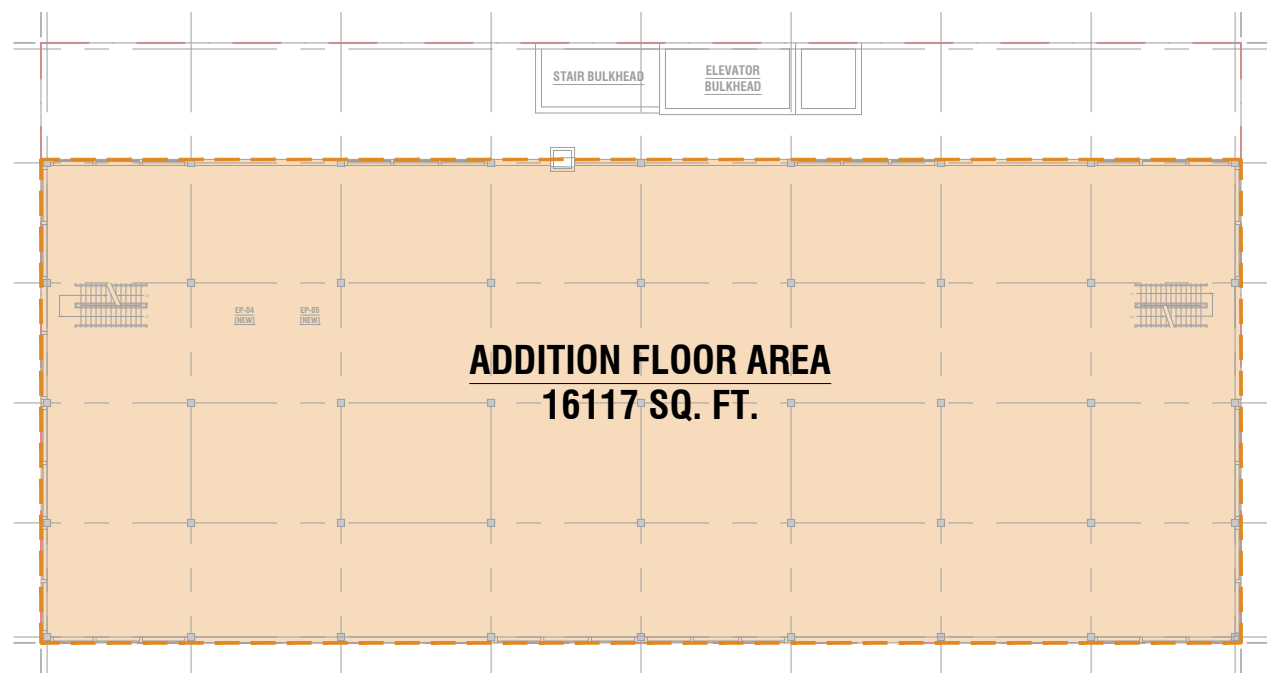
ADDITION



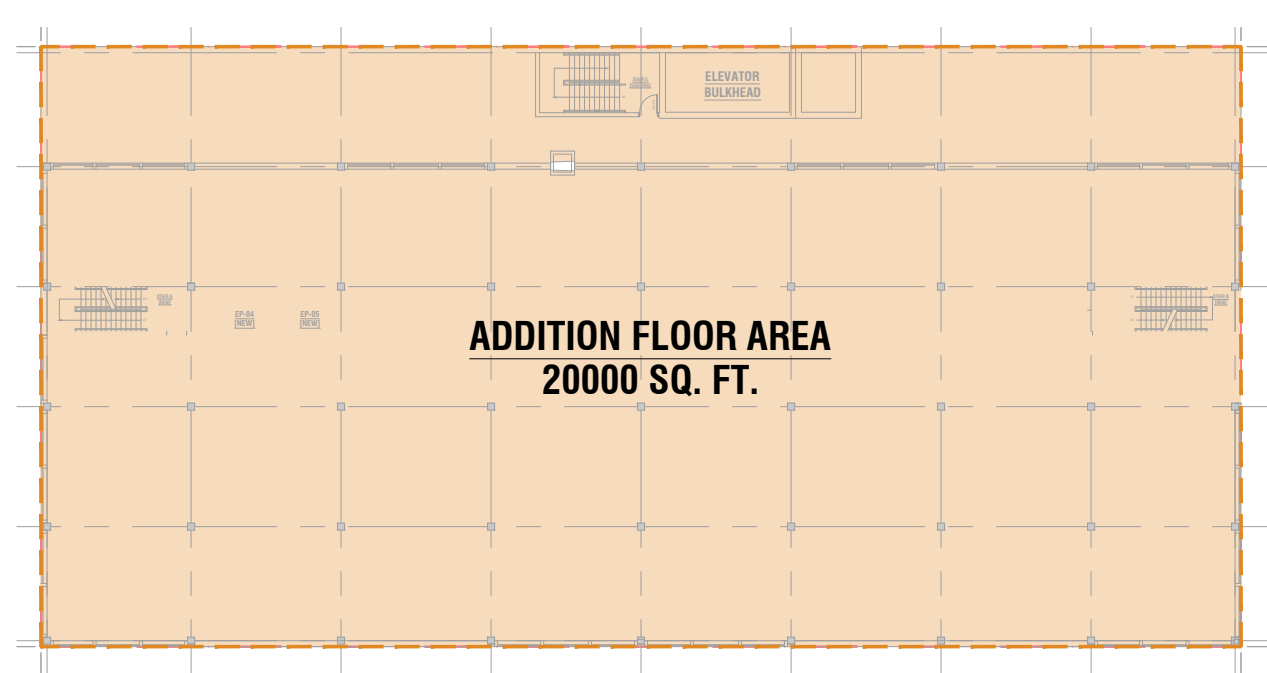
ADDITION - BULKHEAD



ADDITION - ROOF



ADDITION - 5TH FLOOR



ADDITION - 4TH FLOOR

MEP ENGINEER :

STRUCTURAL ENGINEER :

PROJECT:

CASE STUDY 02
VERTICAL
ENLARGEMENT

DOB NOW JOB NUMBER:

DOB APPROVAL STAMP:

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

DRAWING TITLE:

FLOOR AREA AND FLOOR
SURFACE AREA

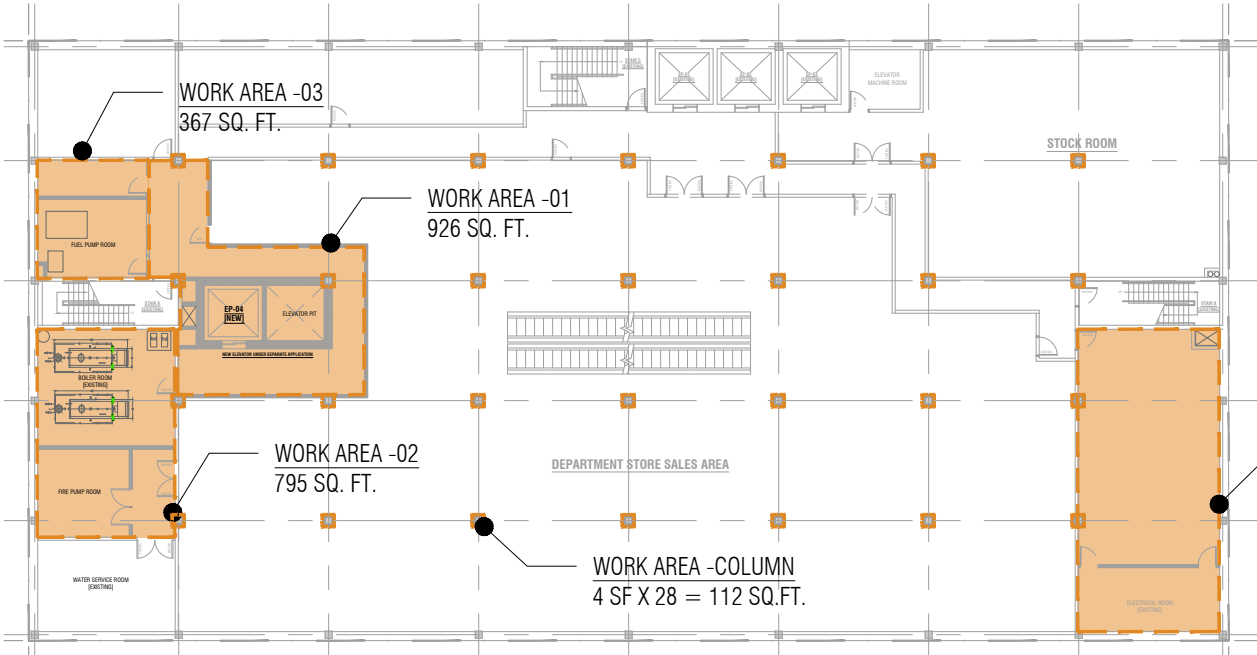
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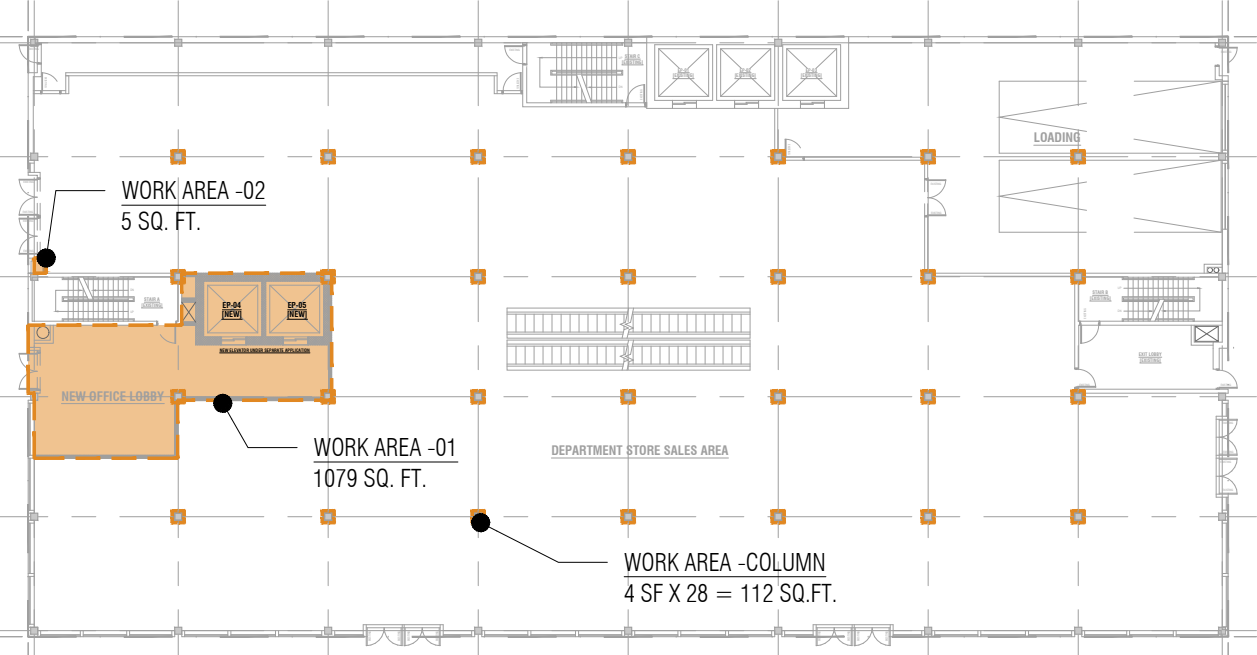
SHEET TITLE :

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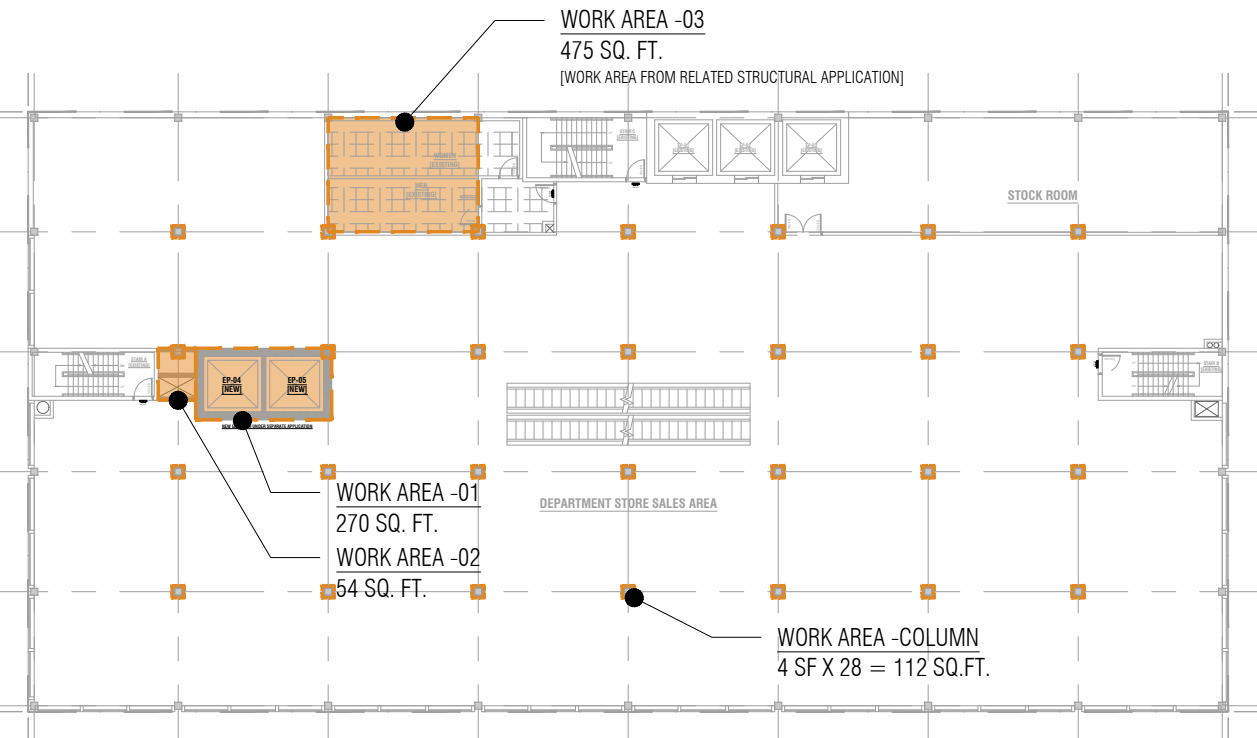
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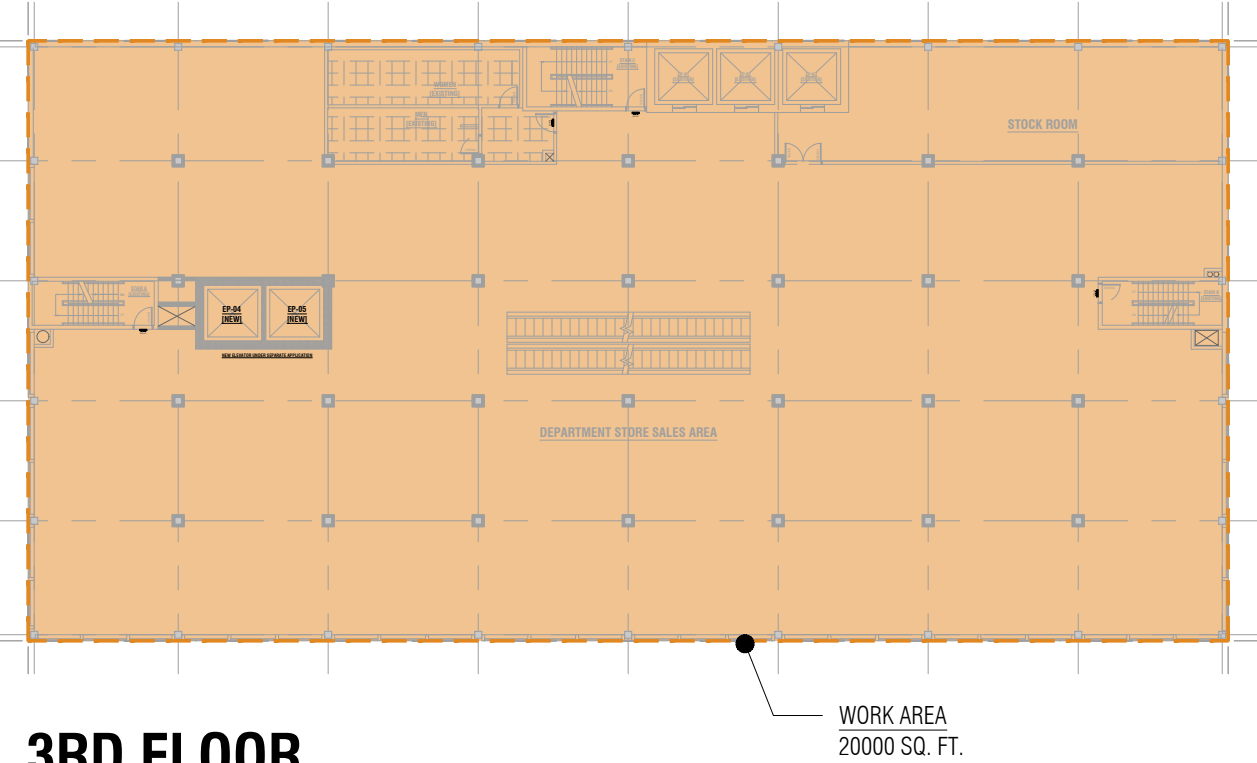
CELLAR



GROUND FL.

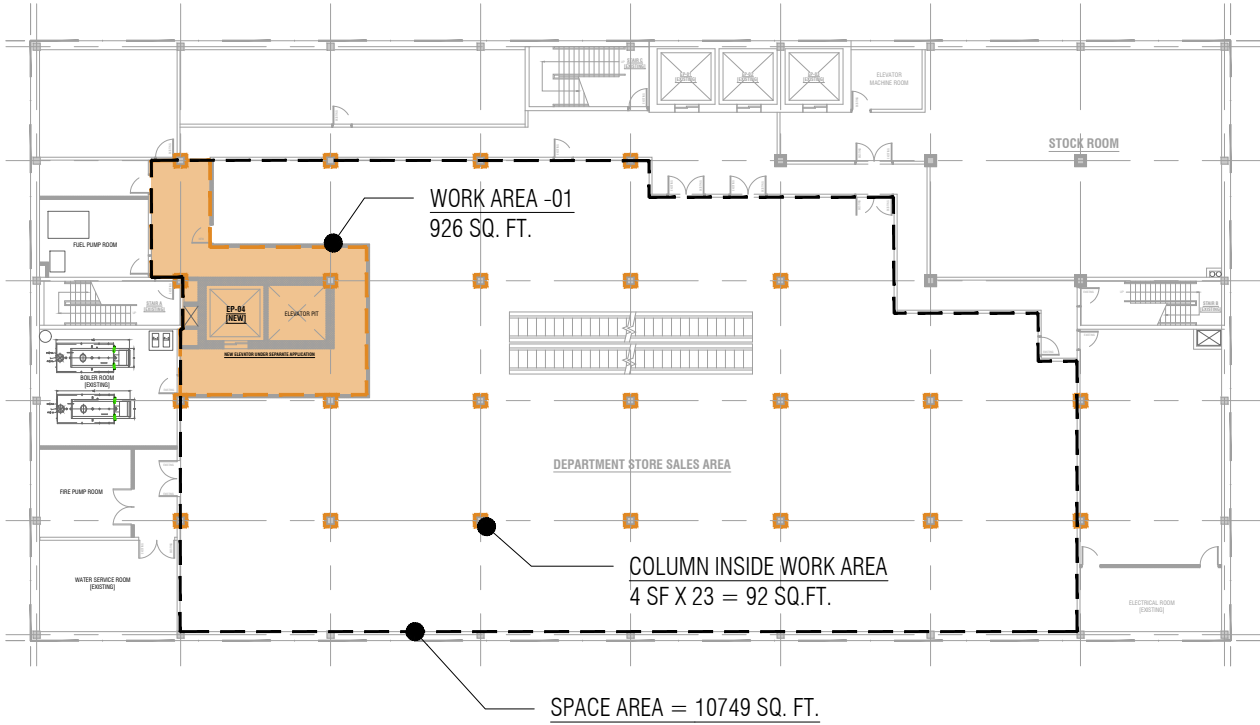


2ND FLOOR

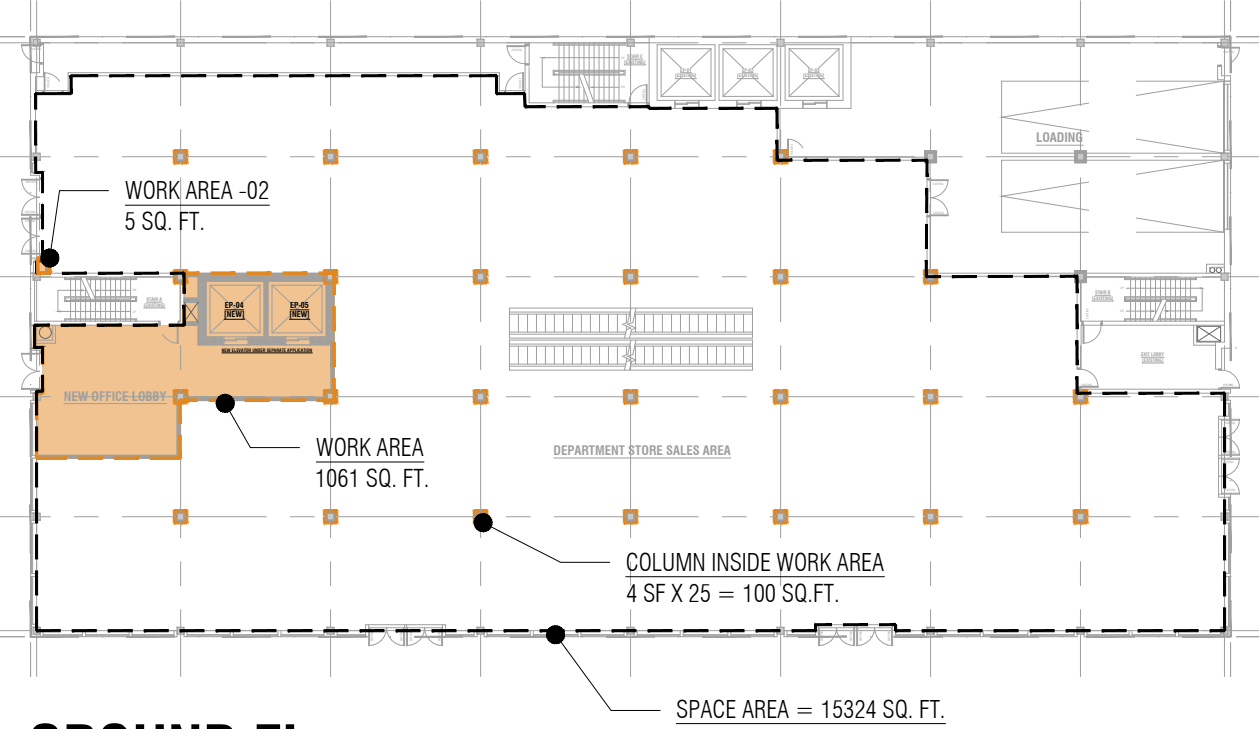


3RD FLOOR

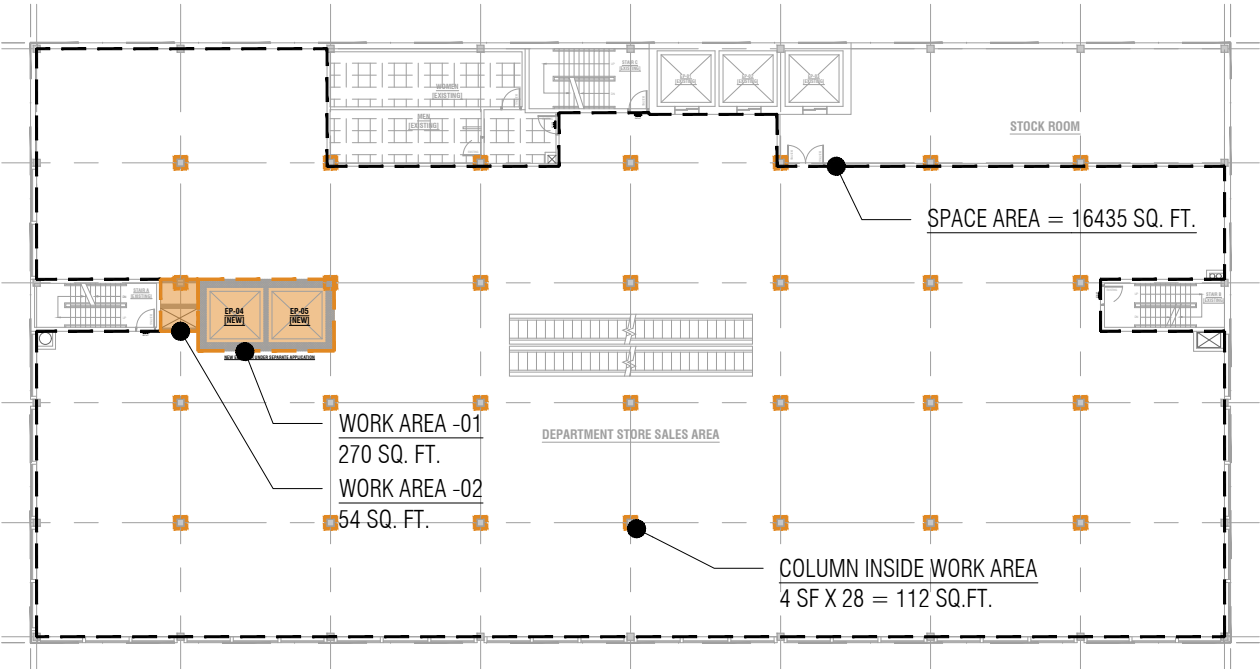
EXISTING BUILDING AREA PER SPACE/AREA PER FLOOR CALCULATION



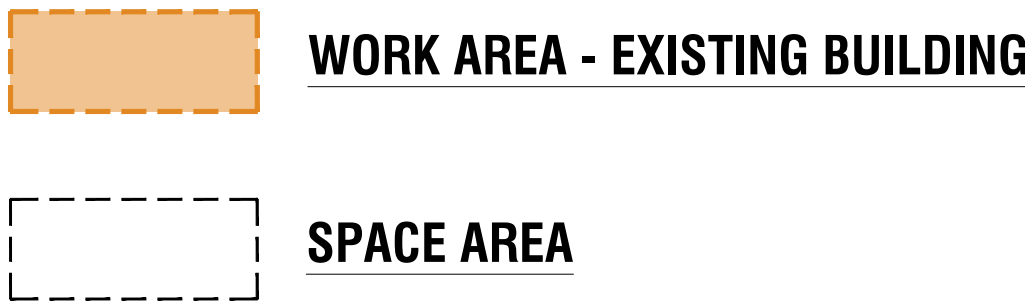
CELLAR



GROUND FL.



2ND FLOOR



EXISTING BUILDING AREA CALCULATION							
EXISTING BUILDING FLOOR AREA (SF)	CELLAR						20,000
	1ST - 3RD FLOORS	20,000 SF EA					60,000
	BULKHDS. TO REMAIN						634
	TOTAL EXISTING						80,634
WORK AREA CALCULATION							
WORK AREA IN EXISTING BUILDING (SF)		AREA -01 (SF)	AREA -02 (SF)	AREA -03 (SF)	AREA -04 (SF)	COLUMN (SF)	TOTAL
	CELLAR	926	795	367	1,189	112	3,389
	GROUND FLOOR	1,079	5			112	1,196
	2ND FLOOR	270	54	475		112	911
	3RD FLOOR	20,000					20,000
	ROOF (4TH FLOOR)						0
TOTAL WORK AREA							25,496
WORK AREA / EXISTING FLOOR AREA (%)			25,496	/		80,634	31.62%
WORK AREA RELATIVE TO BUILDING AREA		< 50% = ALTERATION LEVEL 1					
WORK AREA PER SPACE CALCULATION							
AREA PER SPACE (per EBC 601.2.3.1, Exception 2)		AREA -01 (SF)	AREA -02 (SF)	COLUMN (SF)	TOTAL(SF)	SPACE AREA (SF)	% (TOTAL/SPACE AREA)
	CELLAR	926		92	1,018	10,749	9%
	GROUND FLOOR	1,061	5	100	1,166	15,324	8%
	2ND FLOOR	270	54	112	436	16,435	3%
	3RD FLOOR	20,000			20,000	20,000	100%
THRESHOLD FOR RECONFIGURATION = 10%							
WORK AREA PER FLOOR CALCULATION							
AREA PER FLOOR (per EBC Chapter 8 - Supplemental Req's)					TOTAL WORK (SF)	FLOOR AREA (SF)	% (TOTAL/FLOOR AREA)
	CELLAR				3,389	20,000	17%
	GROUND FLOOR				1,196	20,000	6%
	2ND FLOOR				911	20,000	5%
	3RD FLOOR				20,000	20,000	100%
THRESHOLD FOR SUPPLEMENTAL REQUIREMENTS = 50%							

OWNER:

NYC Buildings

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PROJECT:

CASE STUDY 02

VERTICAL ENLARGEMENT

DOB NOW JOB NUMBER:

DOB APPROVAL STAMP:

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

DRAWING TITLE:

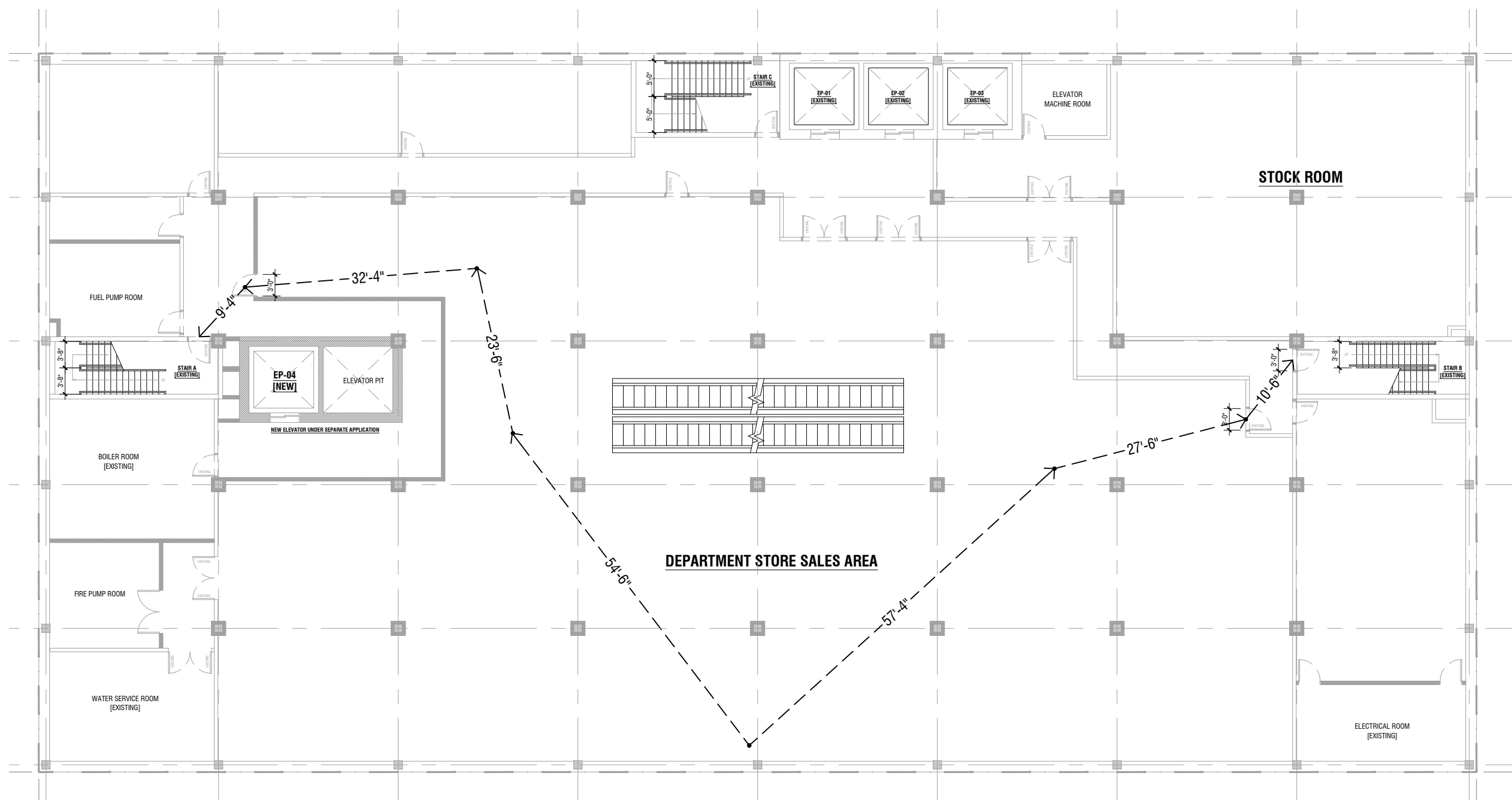
WORK AREA DIAGRAM

PROJECT #:

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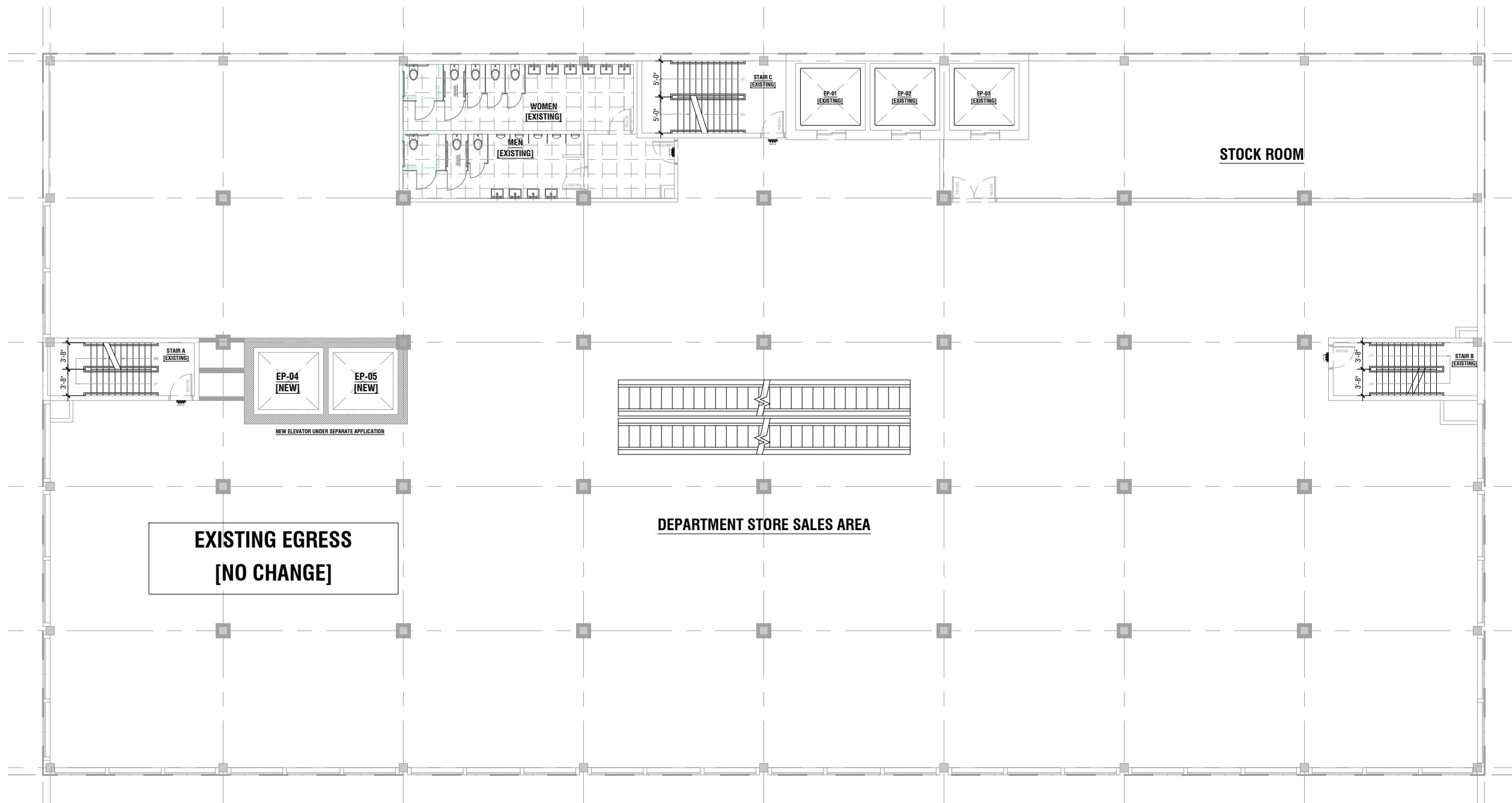
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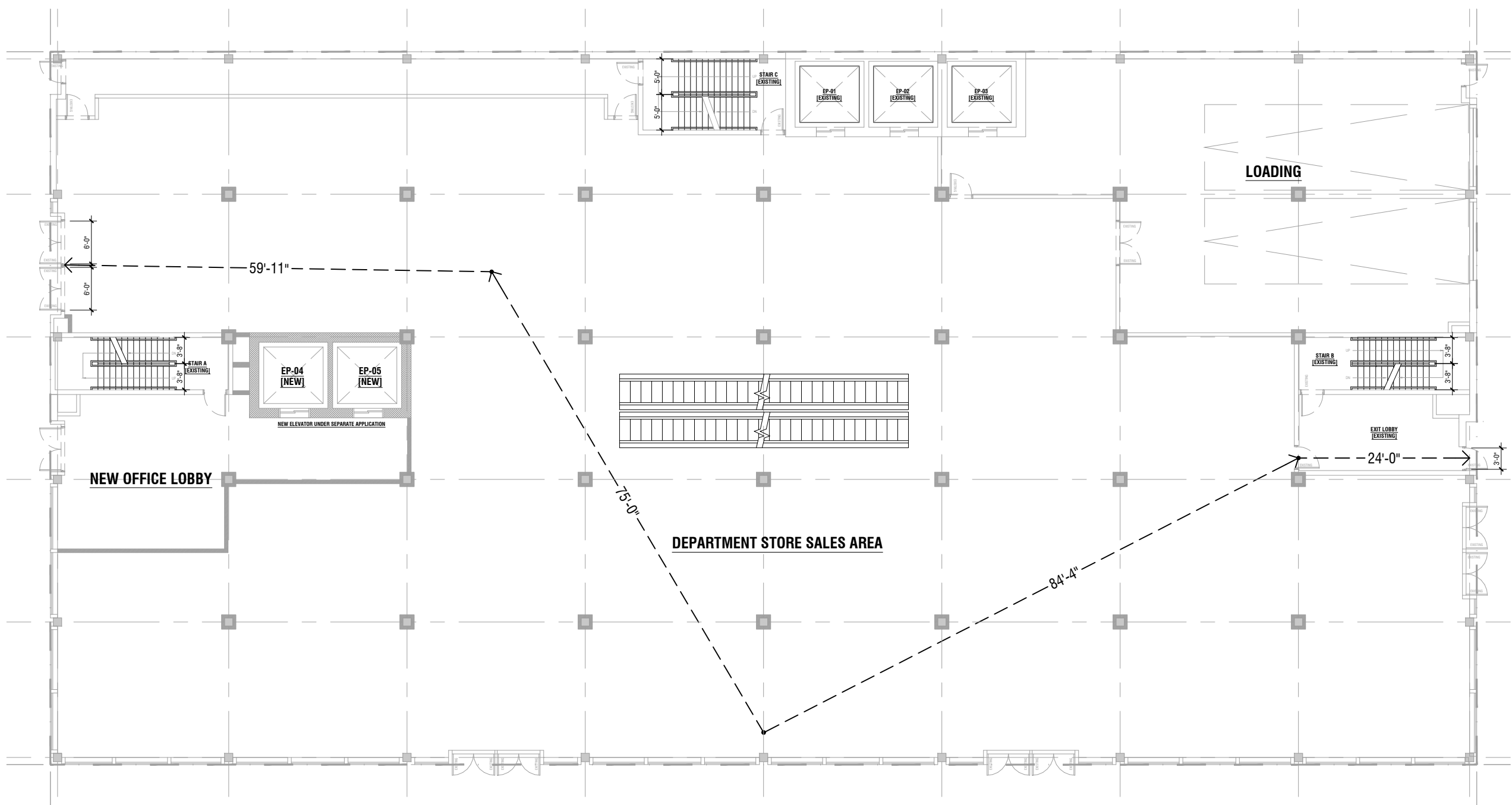


TRAVEL PATH - STAIR A = $54'-6'' + 23'-6'' + 32'-4'' + 9'-4'' = 119'-9''$
TRAVEL PATH - STAIR B = $57'-4'' + 27'-6'' + 10'-6'' = 87'-10''$

1 EGRESS PLAN - CELLAR
SCALE: 1/16" = 1'-0"

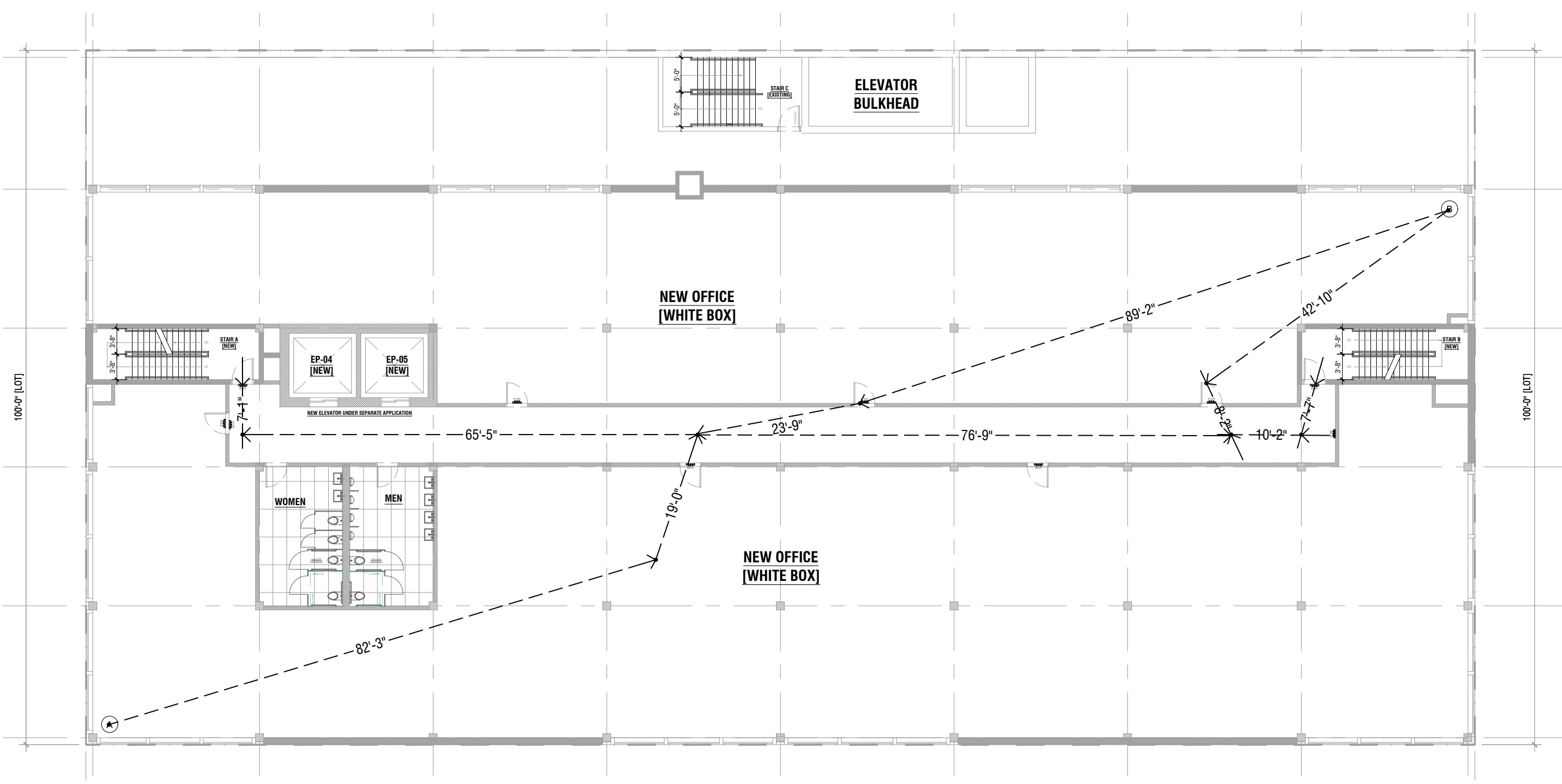


3 EGRESS PLAN - 2ND & 3RD FLOOR
SCALE: 1/16" = 1'-0"



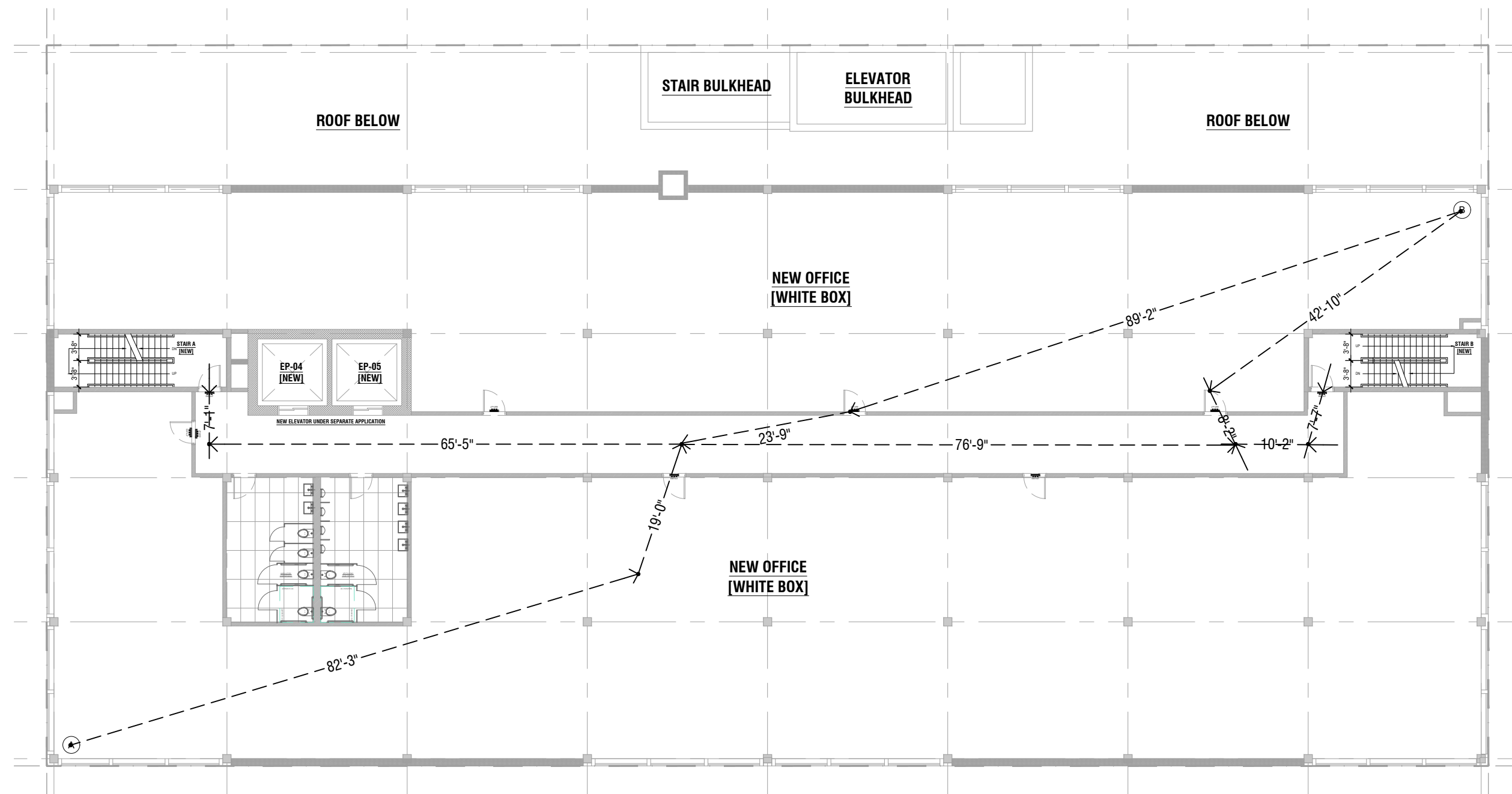
TRAVEL PATH - STAIR A = $75'-0'' + 59'-11'' = 134'-11''$
TRAVEL PATH - STAIR B = $84'-4'' + 24'-0'' = 108'-4''$

2 EGRESS PLAN - GROUND FLOOR
SCALE: 1/16" = 1'-0"



TRAVEL PATH - A TO STAIR A = $82'-3'' + 19'-0'' + 65'-5'' + 7'-1'' = 173'-10''$
TRAVEL PATH - A TO STAIR B = $82'-3'' + 19'-0'' + 76'-9'' + 10'-2'' + 7'-7'' = 195'-9''$
TRAVEL PATH - B TO STAIR A = $89'-2'' + 23'-9'' + 65'-5'' + 7'-1'' = 185'-6''$
TRAVEL PATH - B TO STAIR B = $42'-10'' + 8'-2'' + 10'-2'' + 7'-7'' = 68'-8''$

4 EGRESS PLAN - 4TH FLOOR
SCALE: 1/16" = 1'-0"



TRAVEL PATH - A TO STAIR A= $82^{\circ}\text{-}3^{\circ}+19^{\circ}\text{-}0^{\circ}+65^{\circ}\text{-}5^{\circ}+7^{\circ}\text{-}1^{\circ}=173^{\circ}\text{-}10^{\circ}$
 TRAVEL PATH - A TO STAIR B= $82^{\circ}\text{-}3^{\circ}+19^{\circ}\text{-}0^{\circ}+76^{\circ}\text{-}9^{\circ}+10^{\circ}\text{-}2^{\circ}+7^{\circ}\text{-}7^{\circ}=195^{\circ}\text{-}9^{\circ}$
 TRAVEL PATH - B TO STAIR A= $89^{\circ}\text{-}2^{\circ}+23^{\circ}\text{-}9^{\circ}+65^{\circ}\text{-}5^{\circ}+7^{\circ}\text{-}1^{\circ}=185^{\circ}\text{-}6^{\circ}$
 TRAVEL PATH - B TO STAIR B= $42^{\circ}\text{-}10^{\circ}+8^{\circ}\text{-}2^{\circ}+10^{\circ}\text{-}2^{\circ}+7^{\circ}\text{-}7^{\circ}=68^{\circ}\text{-}8^{\circ}$

1 EGRESS PLAN - 5TH FLOOR

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

NEW PARTITION FIRE RATING LEGEND

-

NOTE: REFER A-500 FOR PARTITION TYPES.

2 | **RESERVED**
SCALE: 1/16" = 1'-0"

OCCUPANCY AND EGRESS ANALYSIS

NYC BUILDING CODE REFERENCES

TABLE 1004.1.3	OCCUPANCY FACTOR					
	GROUP B		100	GSF/OCCUPANT		
	GROUP M - CELLAR & 1ST FL RETAIL		30	GSF/OCCUPANT		
	GROUP M - 2ND & 3RD FLS		60	GSF/OCCUPANT		
	GROUP M - STORAGE & MECH		300	GSF/OCCUPANT		

1005.3.1	STAIR WIDTH FACTOR	0.3	INCH PER OCCUPANT		
1005.3.2	OTHER EGRESS FACTOR	0.2	INCH PER OCCUPANT		

TABLE 1017.2	MAX. TRAVEL DISTANCE (GROUP B)		200	FT. (UNSPRINKLERED)		
	MAX. TRAVEL DISTANCE (GROUP M)		150	FT. (UNSPRINKLERED)		

ADDITION

GROSS AREA OF 4TH FL & 5TH FL EACH		16,117	SF	
OCCUPANCY OF 4TH FL & 5TH FL EACH	16,117/100	161	OCCUPANTS	
STAIR WIDTH REQUIRED AT EACH FL	161 x 0.3	48	INCHES	
STAIR WIDTH PROVIDED AT EACH FL		88	INCHES (STAIR A & B, EACH 44" WIDE)	COMPLIES
EXIT DOOR WIDTH REQUIRED AT EACH FL	161 x 0.2	32	INCHES	
EXIT DOOR WIDTH PROVIDED AT EACH FL		72	INCHES (STAIR A & B EXIT DOOR EA 36" W)	COMPLIES
MAX.TRAVEL DISTANCE PROVIDED		176	FT. < 200 FT.	COMPLIES

EXISTING BUILDING

OCCUPANCY PER 1925 C OF O						
CELLAR			230	OCCUPANTS		
1ST FLOOR			230	OCCUPANTS		
2ND FLOOR			230	OCCUPANTS		
3RD FLOOR			230	OCCUPANTS		

NO CHANGE TO OCCUPANCY OR EGRESS

EGRESS ANALYSIS

SCALE: N.T.C

OWNER



ARCHITECT

MEP ENGINEER

STRUCTURAL ENGINEER -

PROJECT

CASE STUDY 02

VERTICAL ENLARGEMENT

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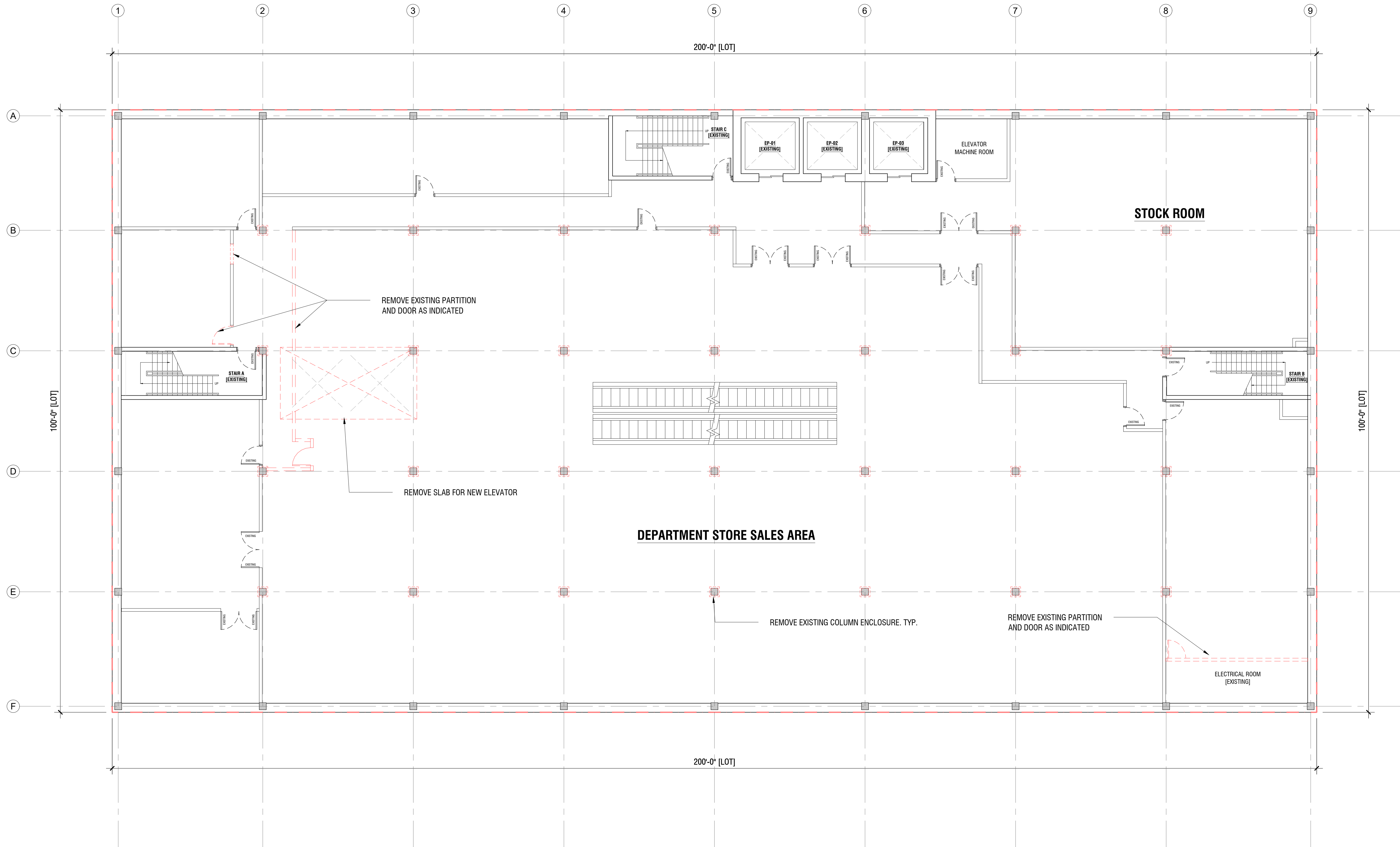
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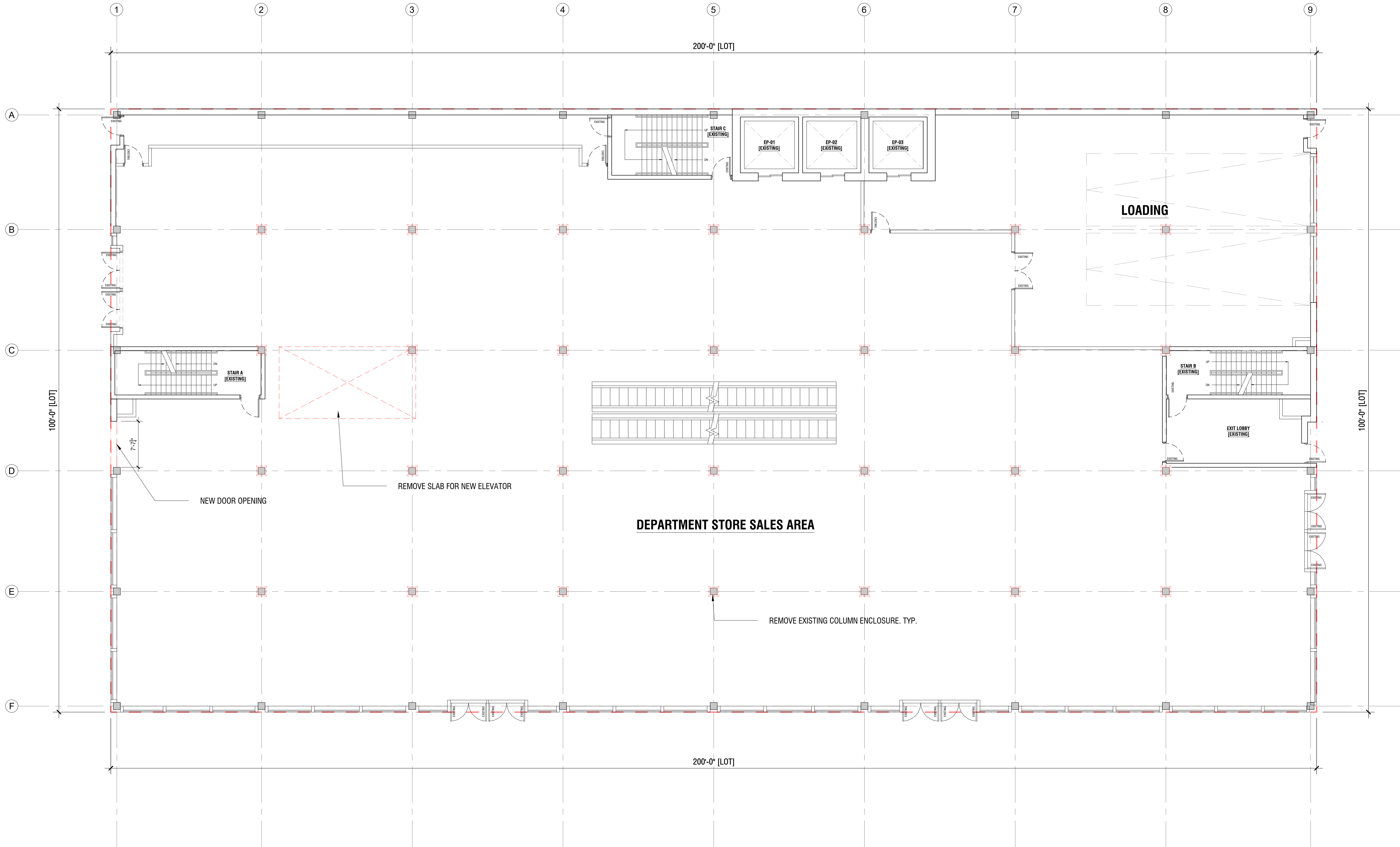
5TH FLOOR EGRESS PLAN & ANALYSIS

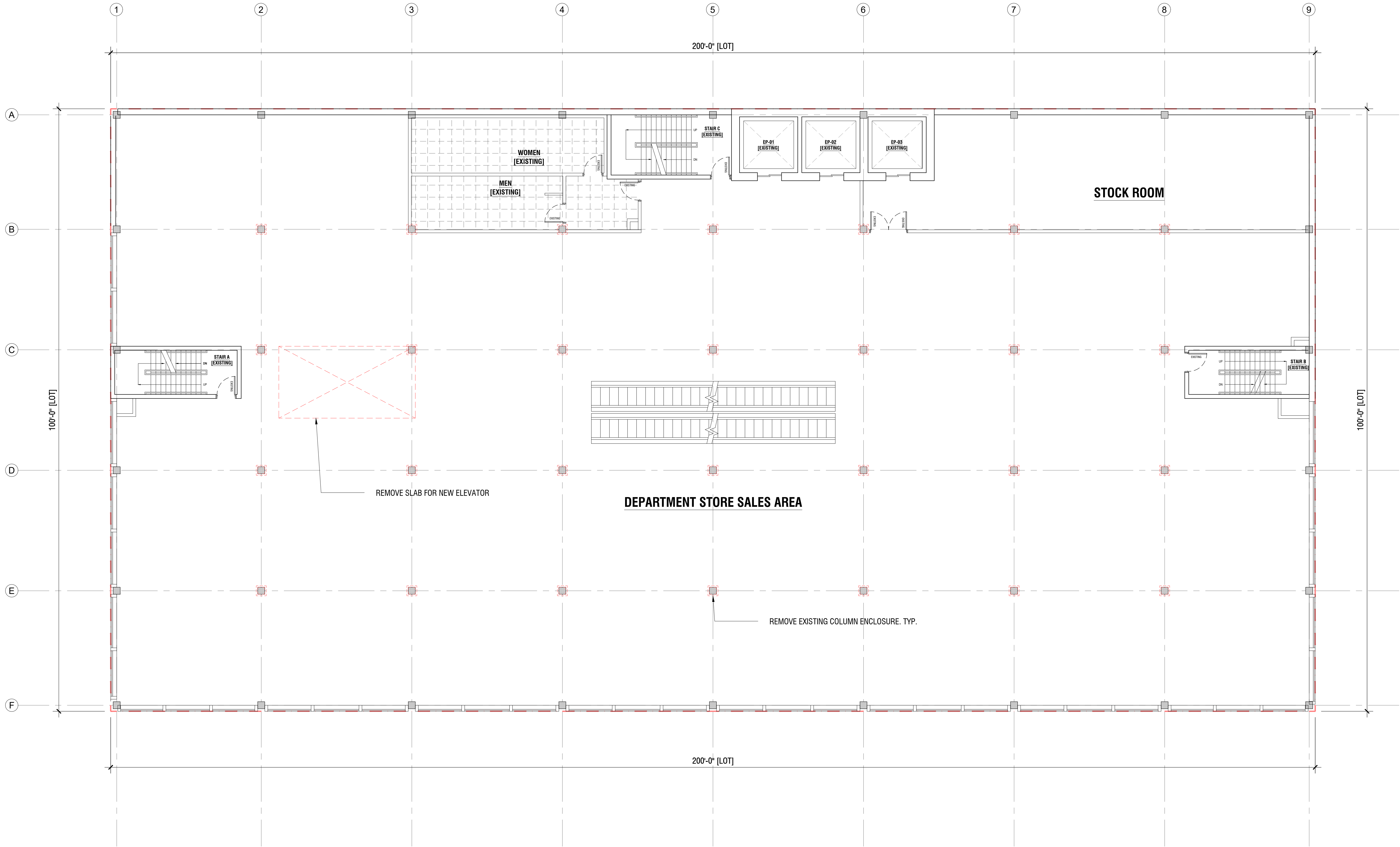
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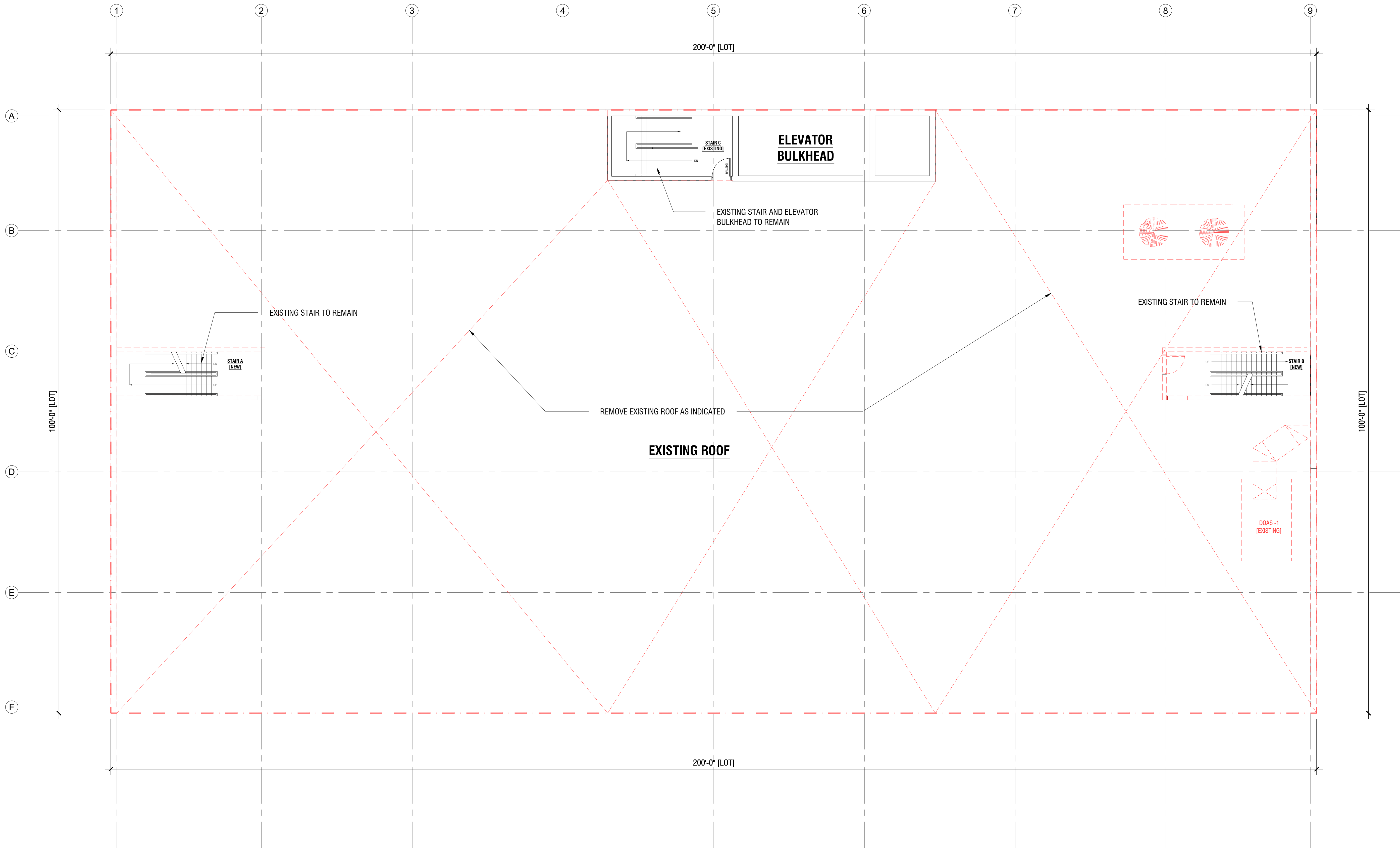
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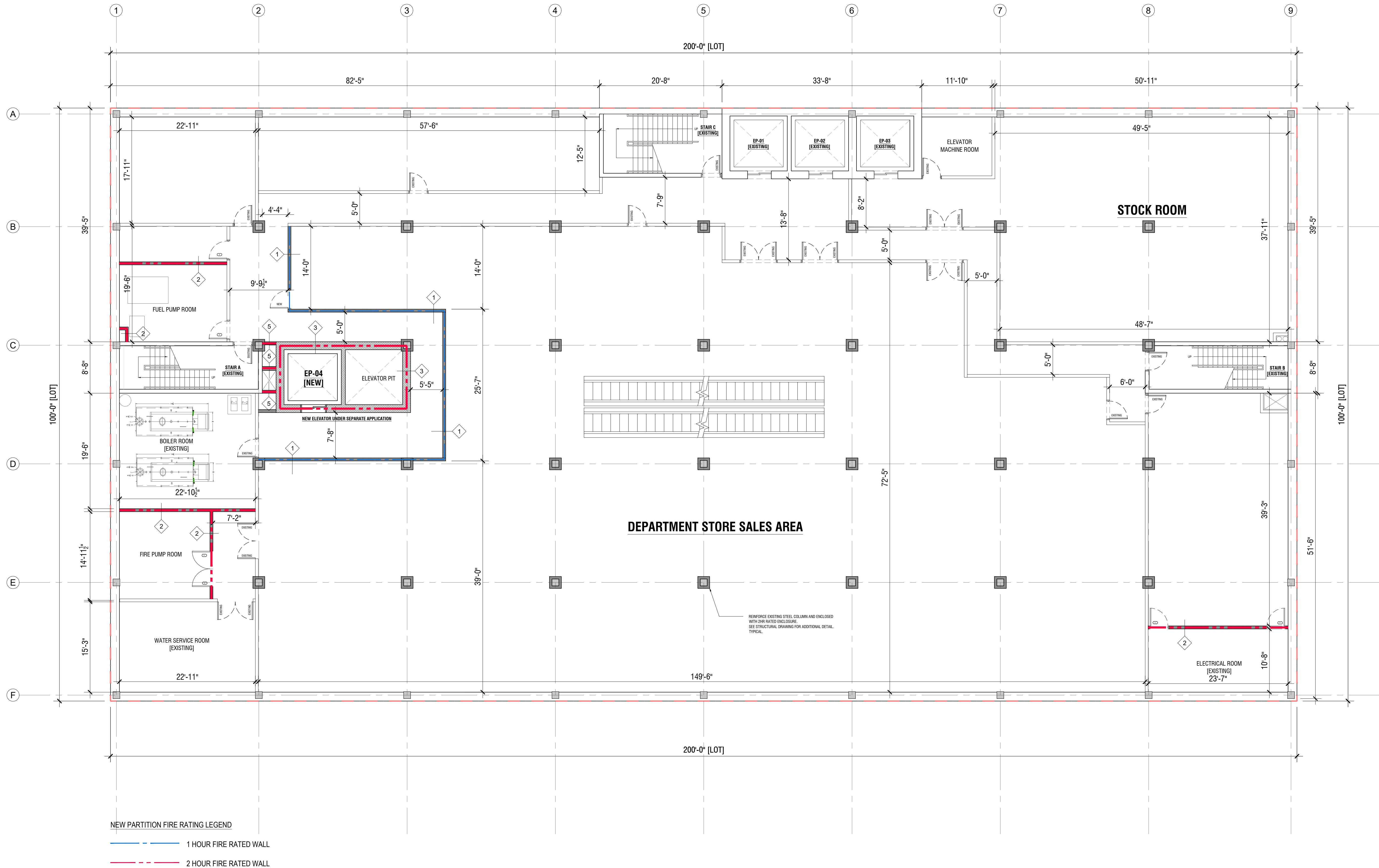
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NEW PARTITION FIRE RATING LEGEND

1 HOUR FIRE RATED WALL
2 HOUR FIRE RATED WALL

NOTE: REFER A-500 FOR PARTITION TYPES.

PROJECT:
CASE STUDY 02
VERTICAL
ENLARGEMENT

DOB NOW JOB NUMBER:

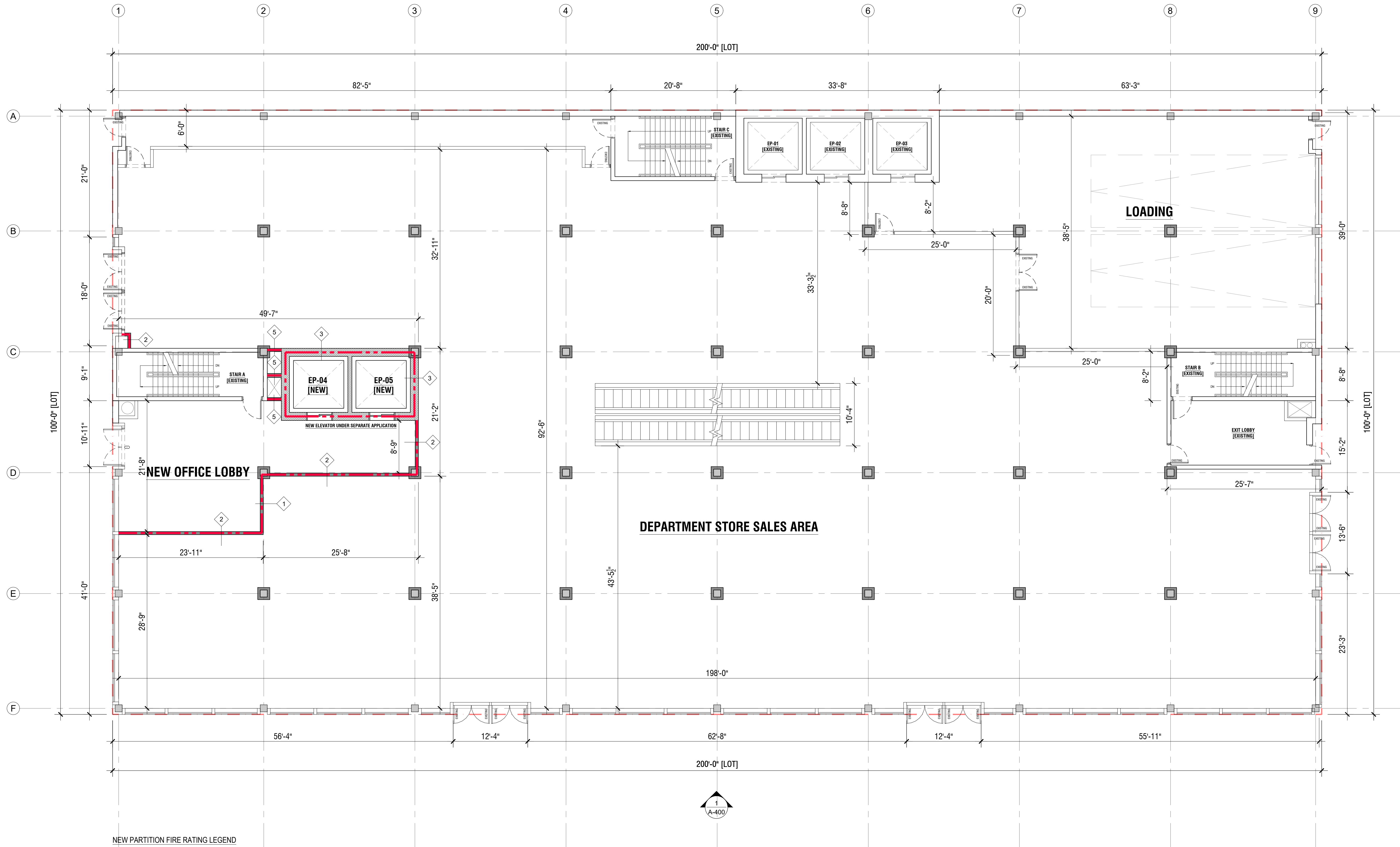
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DRAWING TITLE:
PROPOSED PLAN
GROUND FLOOR

PROJECT #: DRAWN BY: SHEET TITLE:

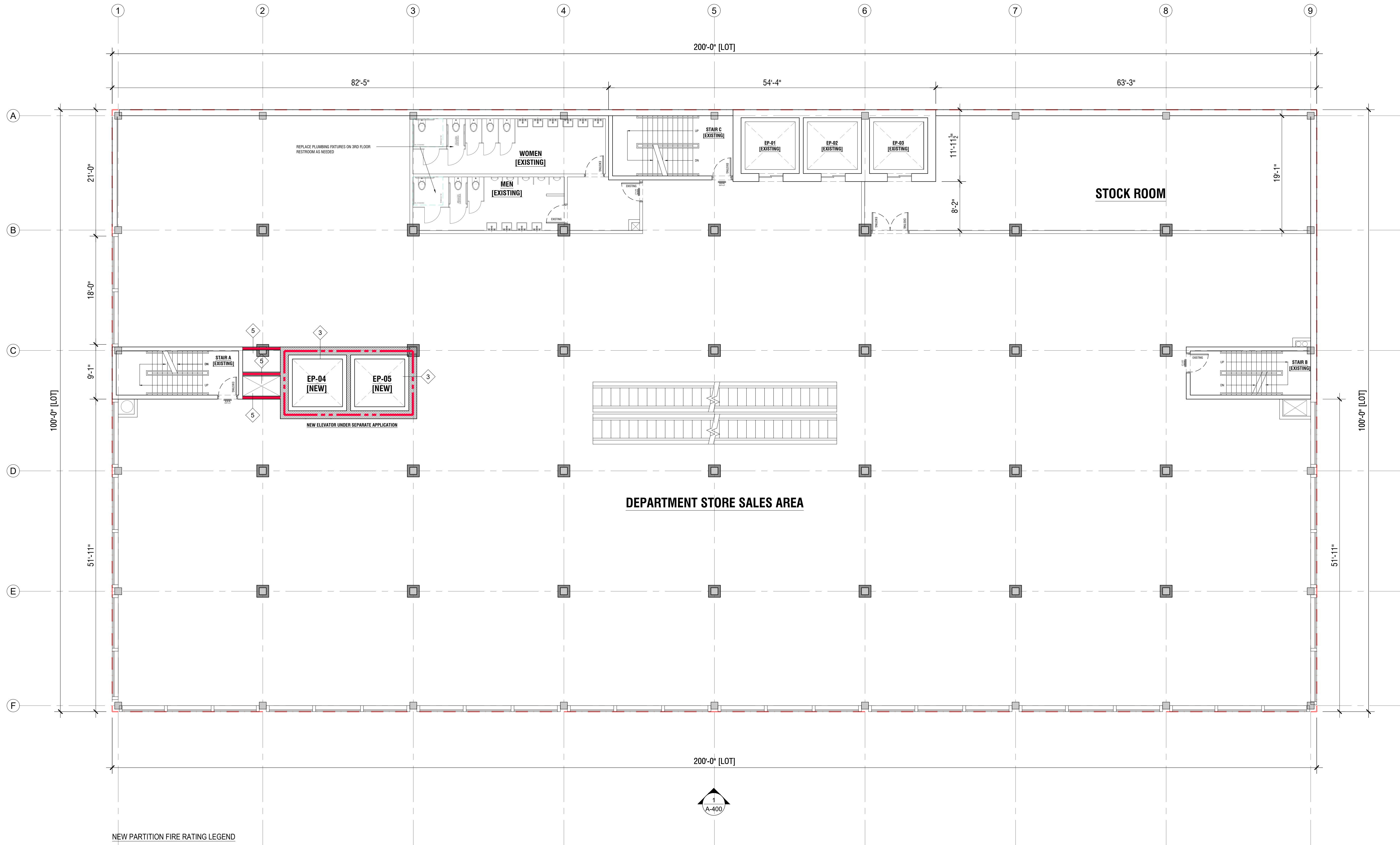
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NEW PARTITION FIRE RATING LEGEND

- 1 HOUR FIRE RATED WALL
- 2 HOUR FIRE RATED WALL

NOTE: REFER A-500 FOR PARTITION TYPES.

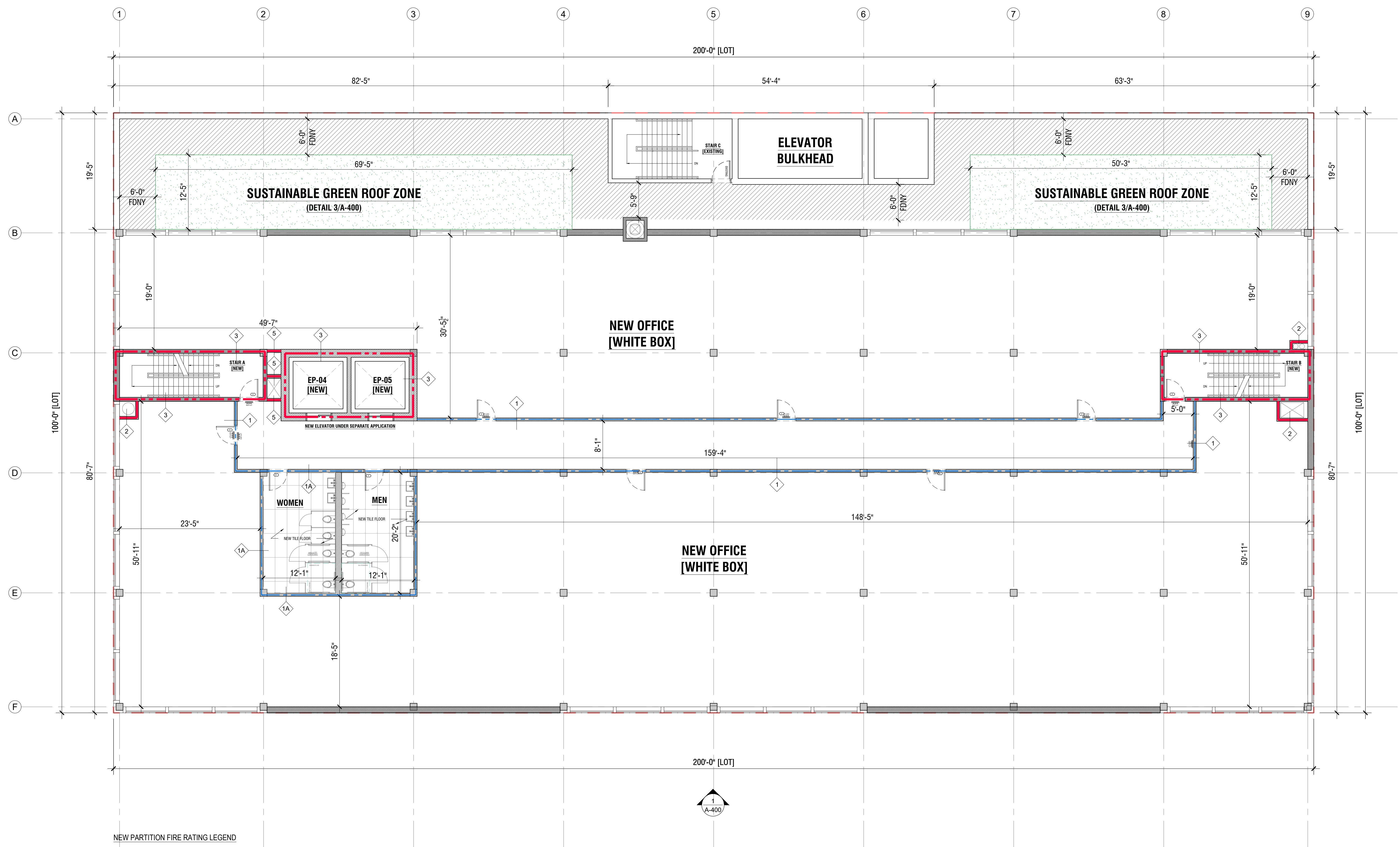


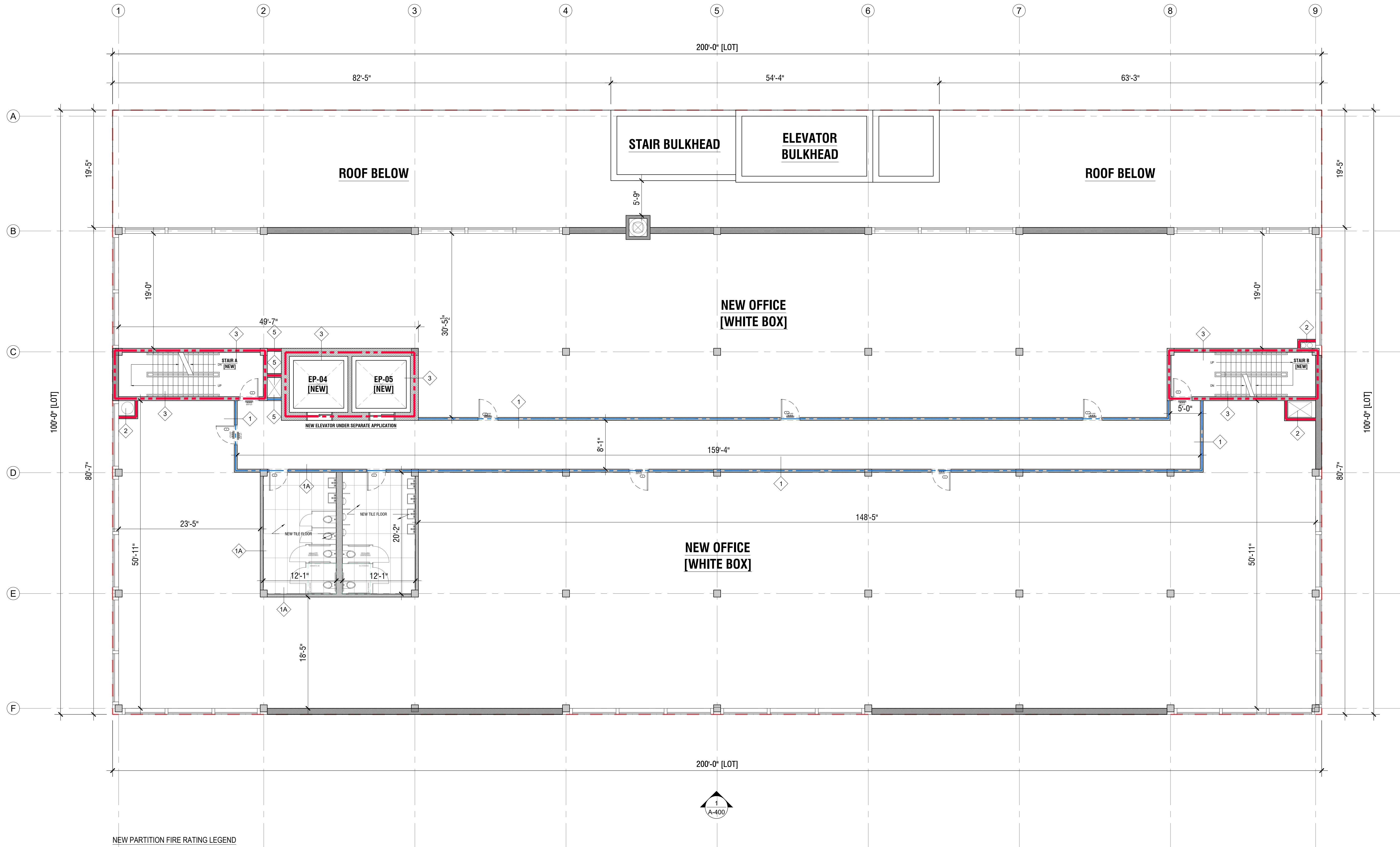
NEW PARTITION FIRE RATING LEGEND

1 HOUR FIRE RATED WALL

2 HOUR FIRE RATED WALL

NOTE: REFER A-500 FOR PARTITION TYPES.

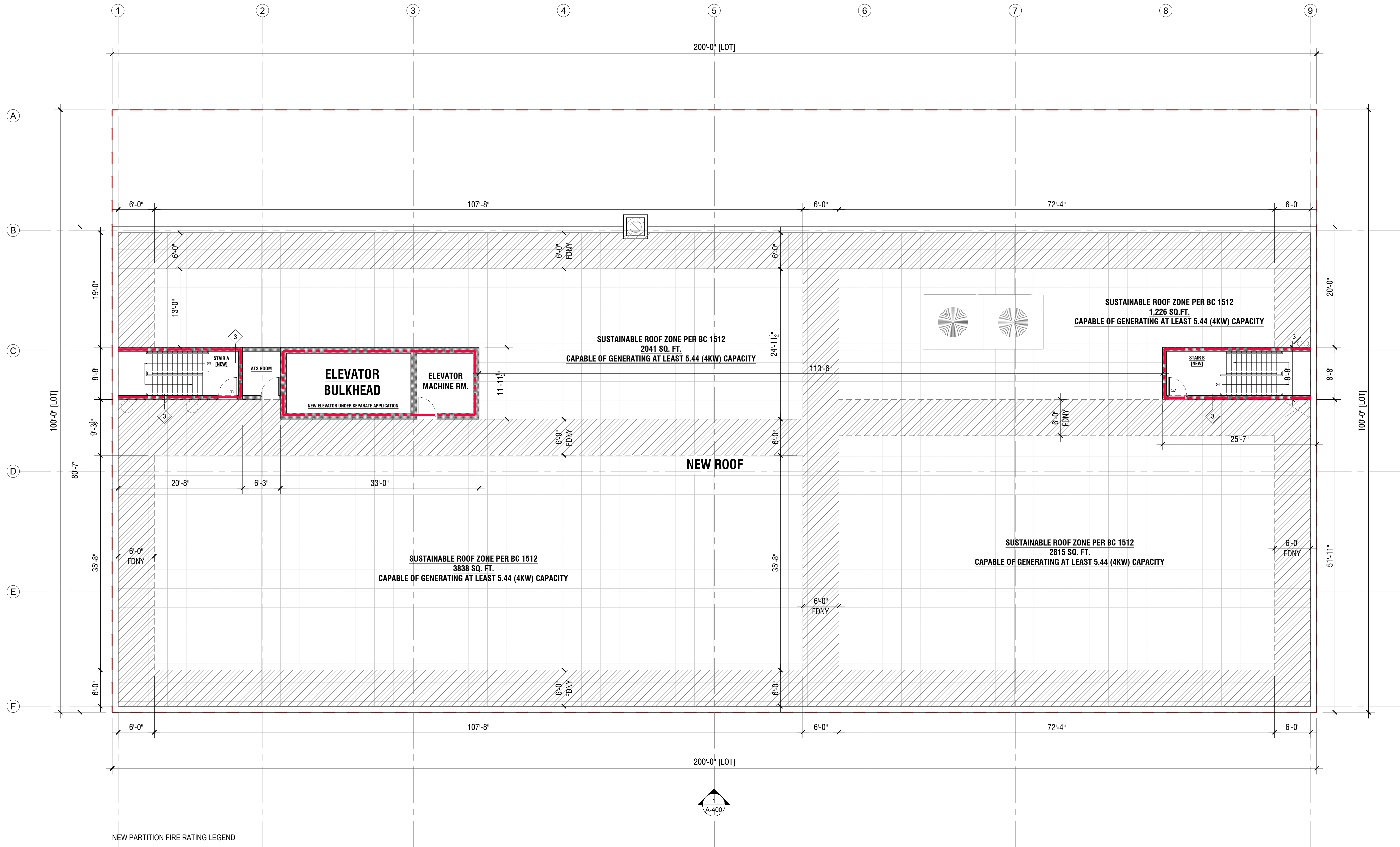




NEW PARTITION FIRE RATING LEGEND

1 HOUR FIRE RATED WALL
2 HOUR FIRE RATED WALL

NOTE: REFER A-500 FOR PARTITION TYPES.

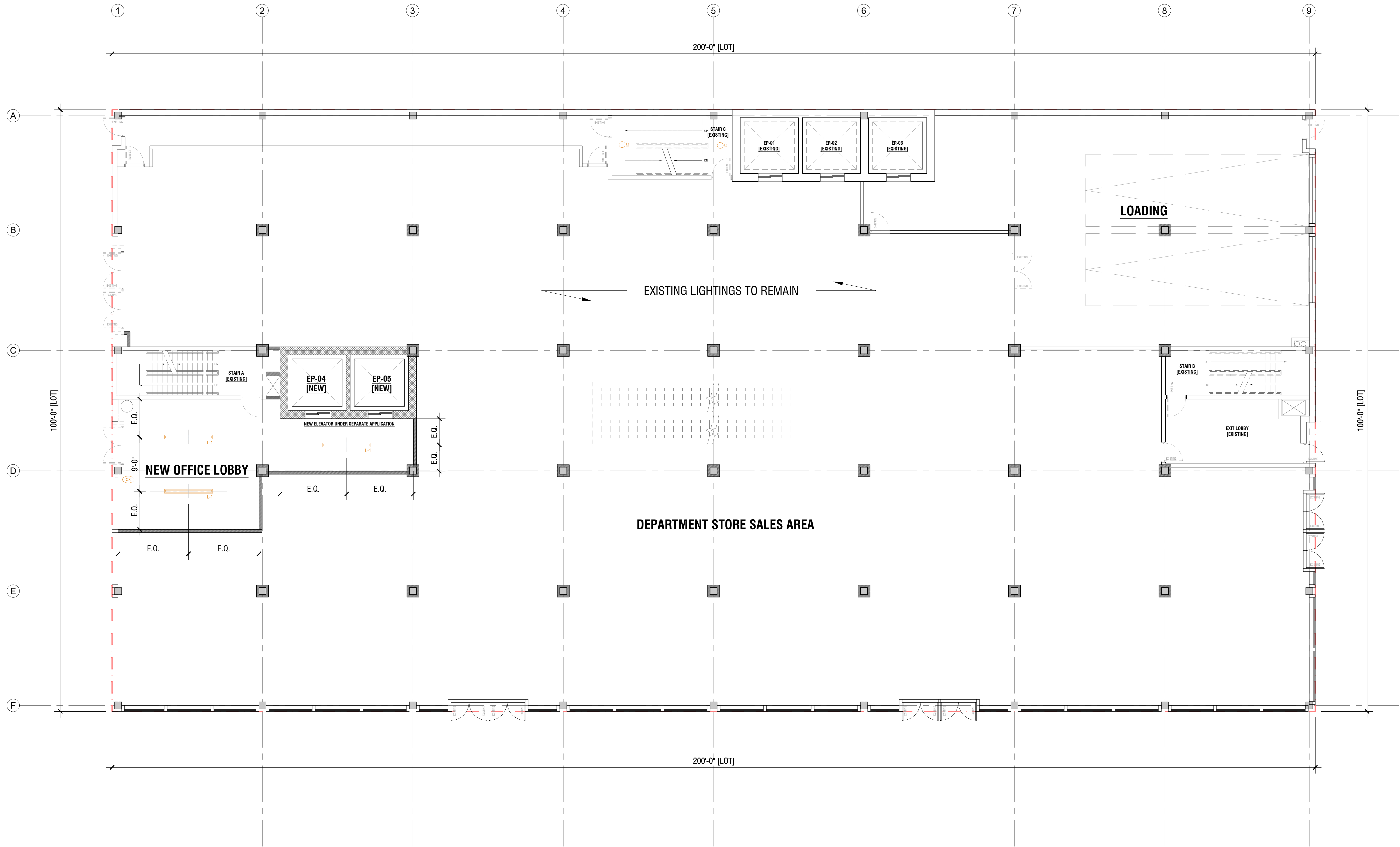


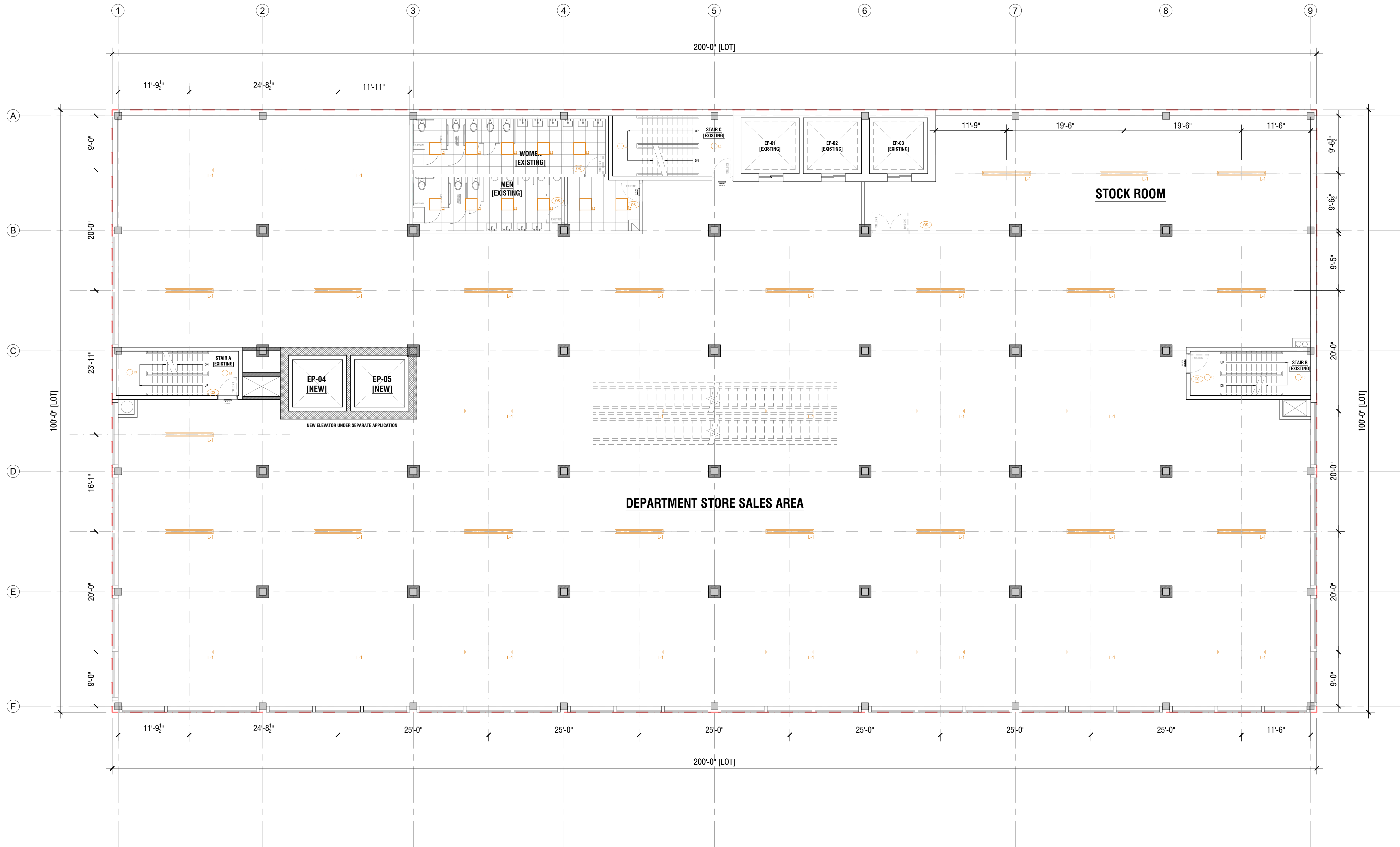
NEW PARTITION FIRE RATING LEGEND

1 HOUR FIRE RATED WALL

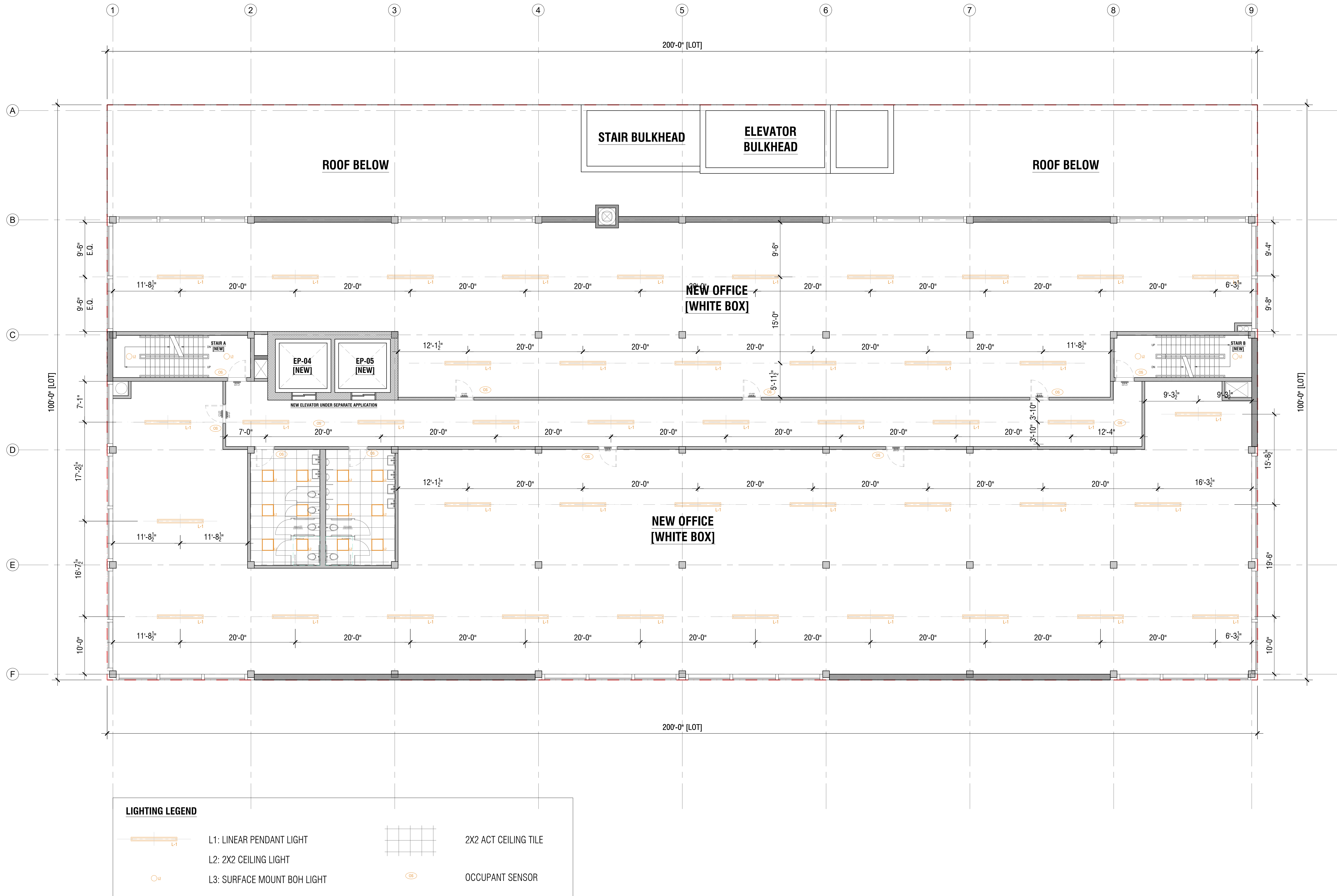
2 HOUR FIRE RATED WALL

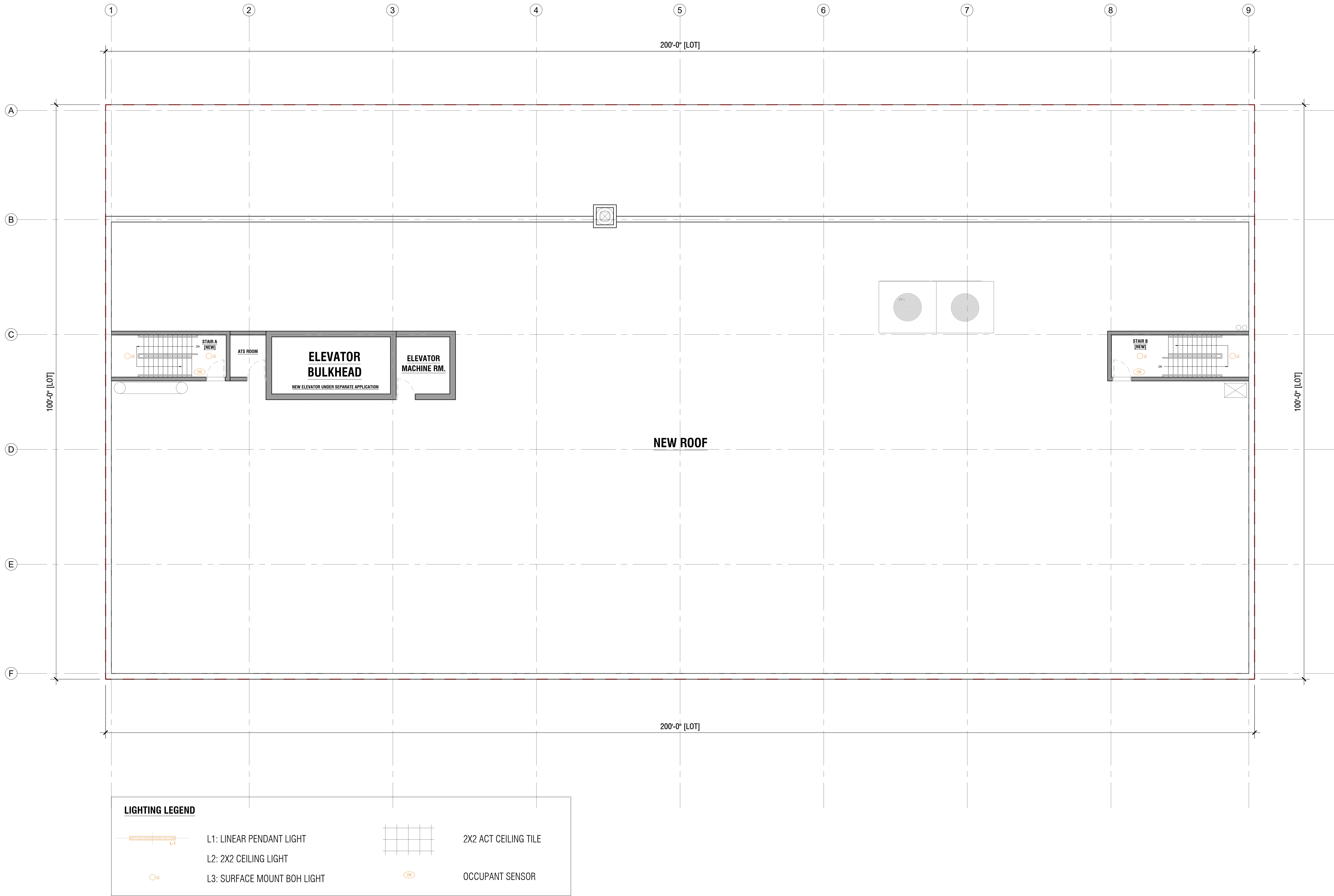
NOTE: REFER A-500 FOR PARTITION TYPES.

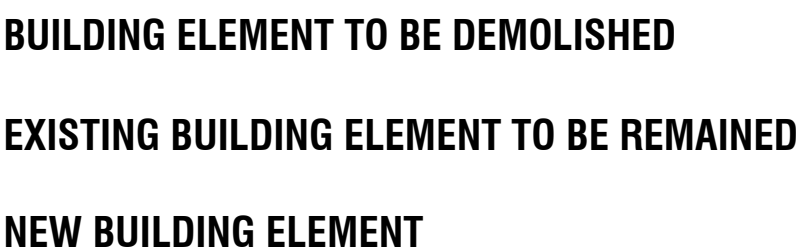




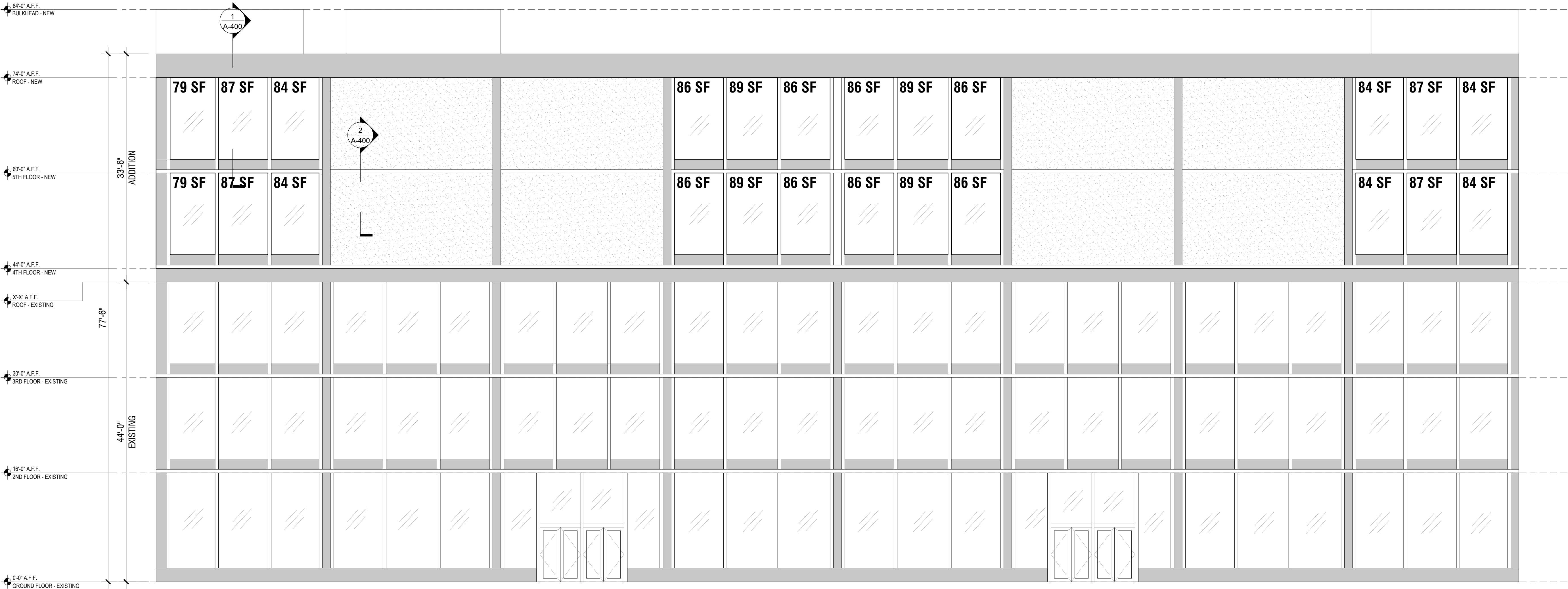


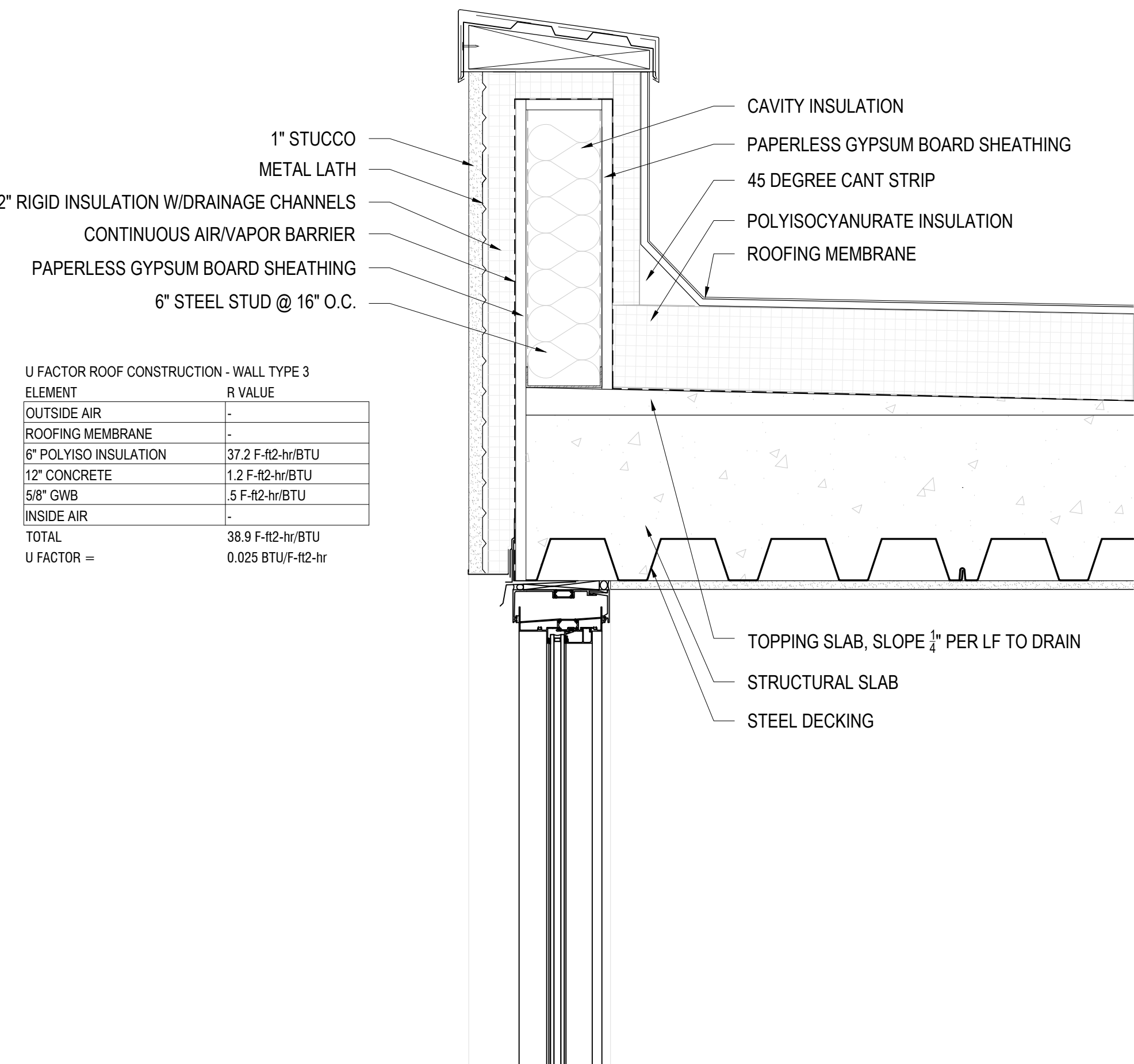




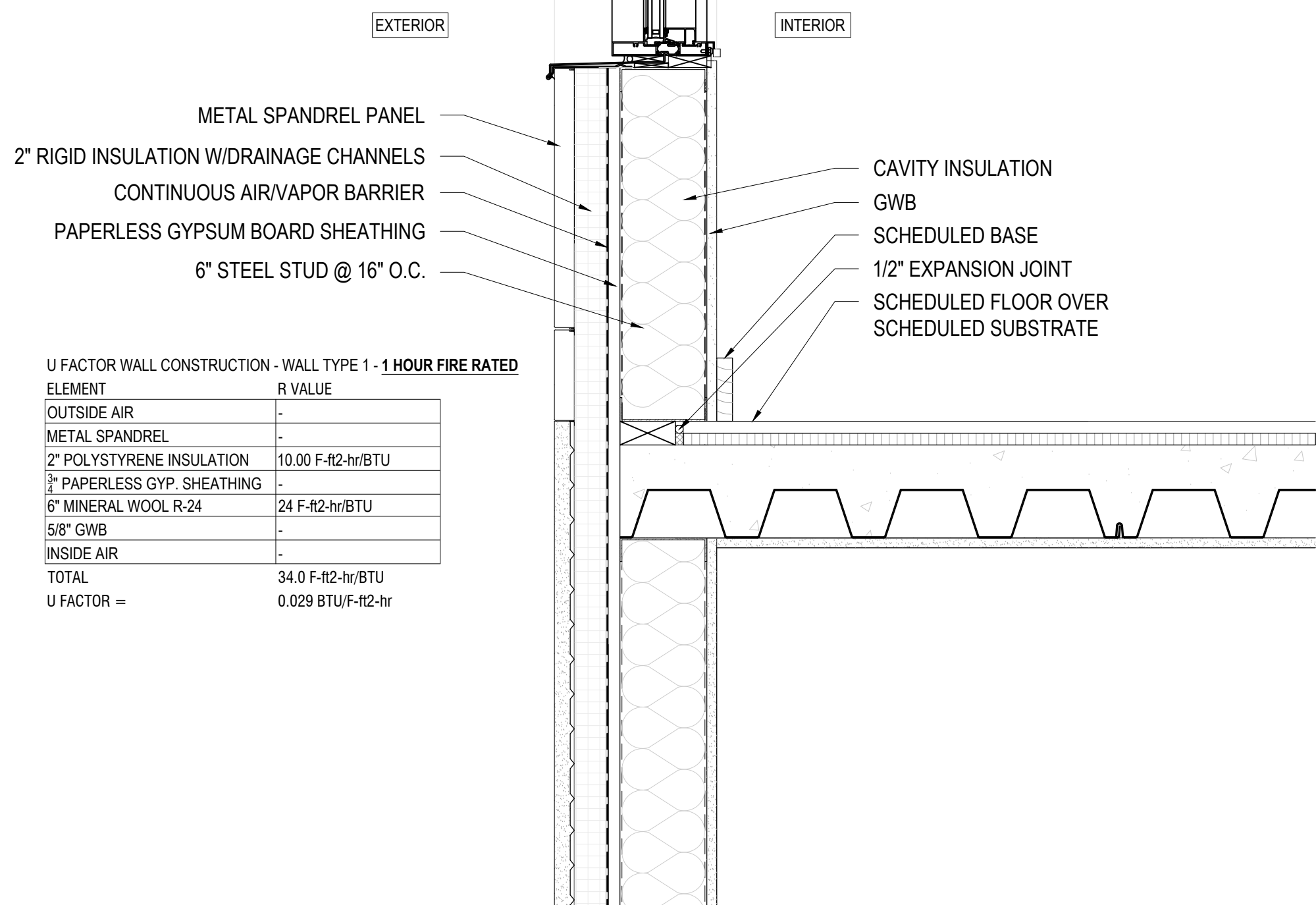


FACADE AREA: 5,600 SF
FENESTRATION AREA: 2,054 SF

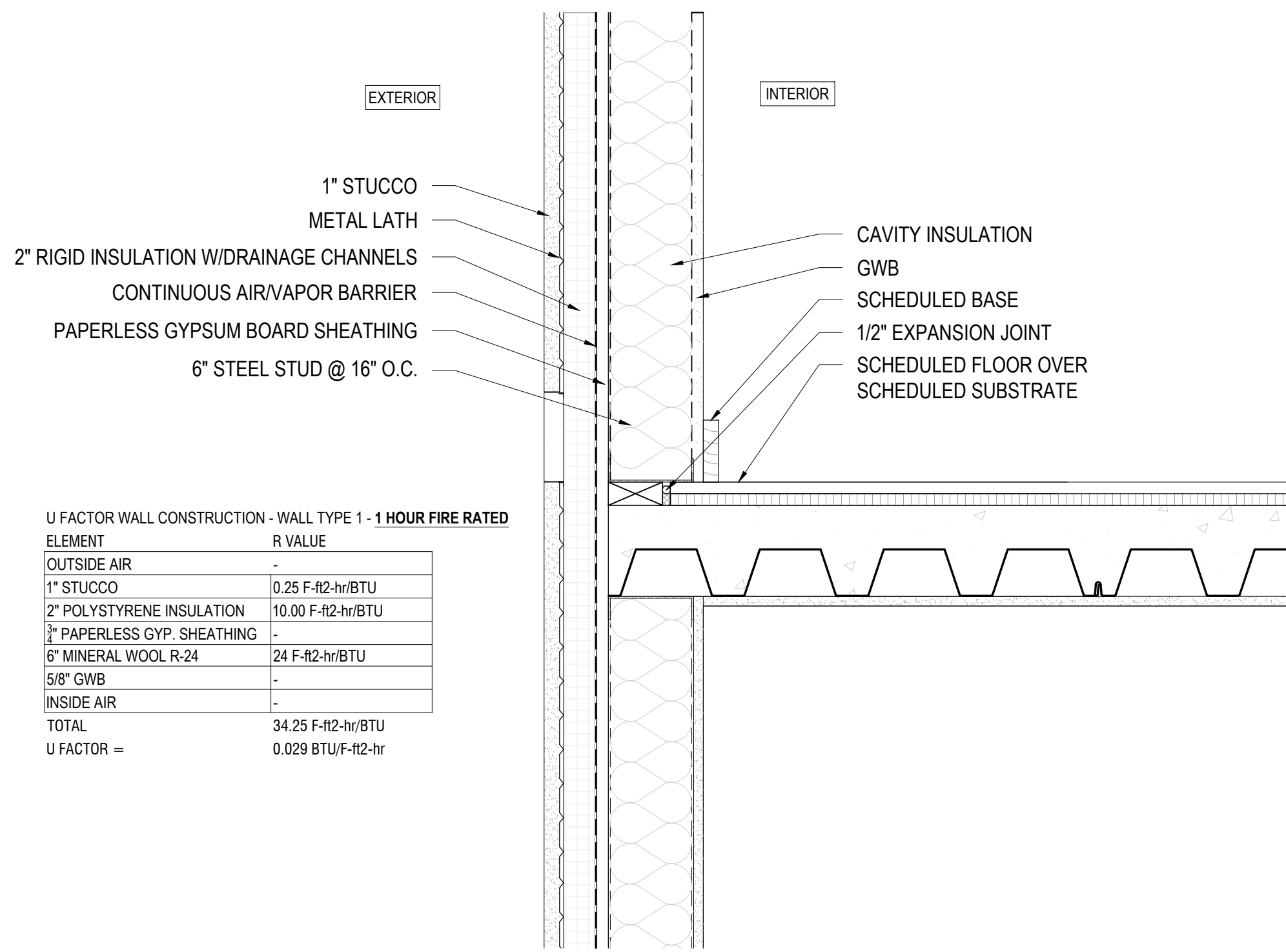




U FACTOR ROOF CONSTRUCTION - WALL TYPE 3	
ELEMENT	R VALUE
OUTSIDE AIR	-
ROOFING MEMBRANE	-
6" POLYISO INSULATION	37.2 F-ft2-hr/BTU
12" CONCRETE	1.2 F-ft2-hr/BTU
5/8" GWB	.5 F-ft2-hr/BTU
INSIDE AIR	-
TOTAL	38.9 F-ft2-hr/BTU
U FACTOR =	0.025 BTU/F-ft2-hr



U FACTOR WALL CONSTRUCTION - WALL TYPE 1 - 1 HOUR FIRE RATED	
ELEMENT	R VALUE
OUTSIDE AIR	-
METAL SPANDREL	-
2" POLYSTYRENE INSULATION	10.00 F-ft2-hr/BTU
3" PAPERLESS GYP. SHEATHING	-
6" MINERAL WOOL R-24	24 F-ft2-hr/BTU
5/8" GWB	-
INSIDE AIR	-
TOTAL	34.0 F-ft2-hr/BTU
U FACTOR =	0.029 BTU/F-ft2-hr



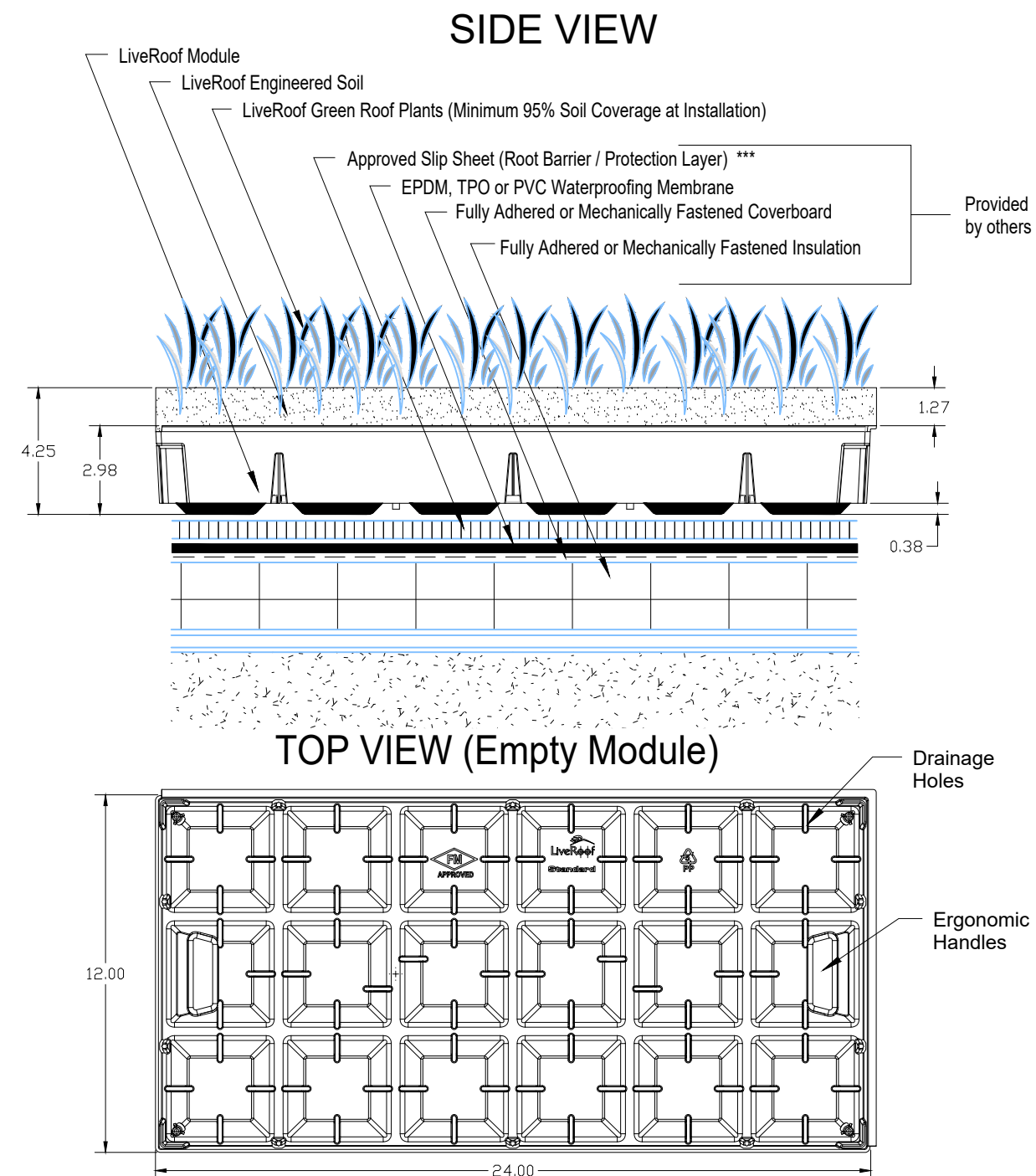
U FACTOR WALL CONSTRUCTION - WALL TYPE 1 - 1 HOUR FIRE RATED	
ELEMENT	R VALUE
OUTSIDE AIR	-
1" STUCCO	0.25 F-ft2-hr/BTU
2" POLYSTYRENE INSULATION	10.00 F-ft2-hr/BTU
3" PAPERLESS GYP. SHEATHING	-
6" MINERAL WOOL R-24	24 F-ft2-hr/BTU
5/8" GWB	-
INSIDE AIR	-
TOTAL	34.25 F-ft2-hr/BTU
U FACTOR =	0.029 BTU/F-ft2-hr

2 EXTERIOR SECTION DETAIL - 1 HR FIRE RATED

SCALE: 1-1/2" = 1'-0"

LiveRoof STANDARD SYSTEM

Over Conventional Roofing Assembly

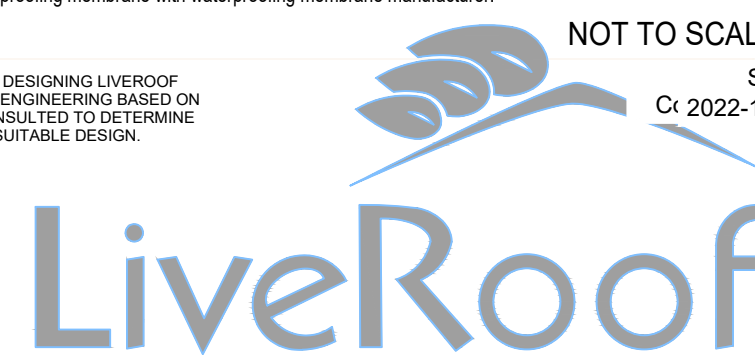


*** Examples of commonly used slip sheet include minimum 40mil EPDM, TPO, PVC polypropylene, Polyolefin or other product depending type of roof and/or warranty. Installer to confirm compatibility of slip sheet and waterproofing membrane with waterproofing membrane manufacturer.

LiveRoof System Saturated Weight: 27-29 lbs / sf

LiveRoof, LLC
P.O. Box 533
Spring Lake, MI
49456

(800) 875-1392
www.liveroof.com



NOT TO SCALE
STD
Ct 2022-11-8

3 GREEN ROOF DETAIL

SCALE: NTS

DOB NOW JOB NUMBER:

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EXTERIOR DETAIL

PROJECT #:

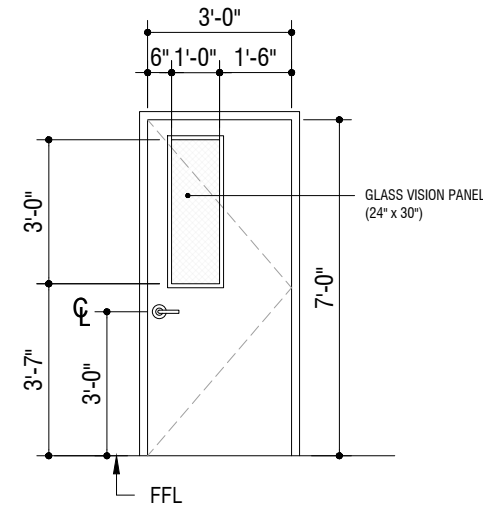
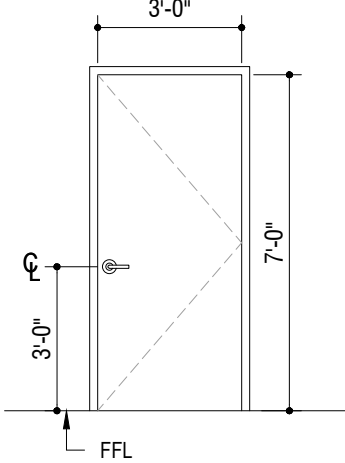
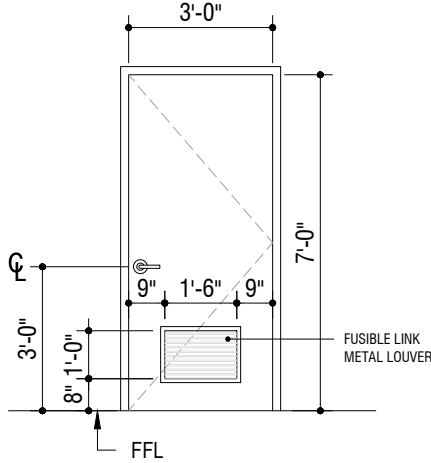
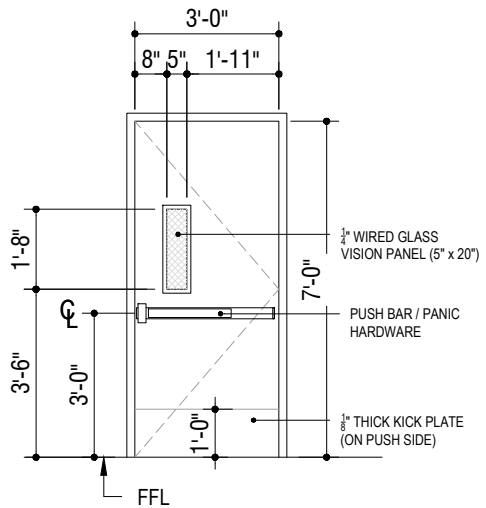
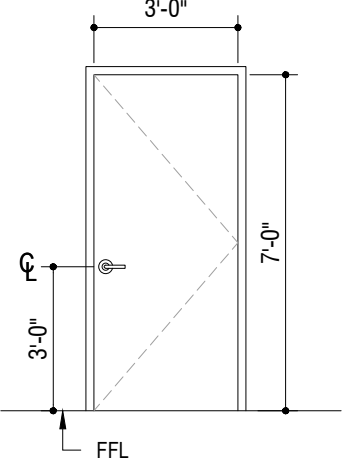
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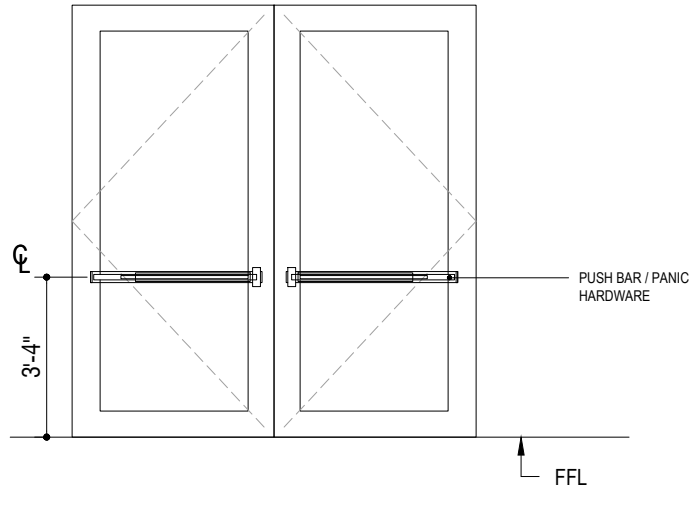
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1 EXTERIOR SECTION DETAIL - 1 HR FIRE RATED

SCALE: 1-1/2" = 1'-0"

DOOR NOTES		DOOR SCHEDULE				
1. FOR WINDOWS AND GLAZED DOORS PROVIDED BY OWNER, GENERAL CONTRACTOR TO CONFIRM U-VALUE, SHGC-VALUE AND AIR LEAKAGE WITH MINIMUM REQUIREMENT SET FORTH IN THIS SCHEDULE. 2. THE MAX. AIR LEAKAGE RATE FOR WINDOWS, SLIDING AND SWINGING DOORS, AND SKYLIGHTS IS PERMITTED TO BE 0.3 CFM/SF OF FENESTRATION OR DOOR AREA WHEN TESTED IN ACCORDANCE WITH AAMA / WDMA / CAS101 / I.S.2 / A440 AT 6.24 PSF (300PA). STUD SPACING 16" O.C. U.N.O. REFER TO LIMITING HEIGHT SCHEDULE ON THIS SHEET FOR MAXIMUM SPANS & MINIMUM FRAMING METAL THICKNESS 3. ALL NEW DOORS TO HAVE CLOSERS PROVIDED	ELEVATION					
	QUANTITY	SEE PLAN	SEE PLAN	SEE PLAN	STAIR ENCLOSURE	SEE PLAN
	DOOR SIZE	SEE ELEVATION FOR DETAIL	SEE ELEVATION FOR DETAIL	SEE ELEVATION FOR DETAIL	SEE ELEVATION FOR DETAIL	SEE ELEVATION FOR DETAIL
	PANEL THICKNESS	1 3/4"	1 3/4"	1 3/4"	1 3/4"	1 3/4"
	LOCATION	SEE PLAN	SEE PLAN	MECHANICAL	NEW STAIR	SEE PLAN
	FIRE RATING	45 MIN.	NONE	90 MIN.	90 MIN.	45 MIN.
	MATERIAL	HOLLOW METAL	HOLLOW METAL OR SOLID WOOD (PER CLIENT)	HOLLOW METAL	HOLLOW METAL (PER CLIENT)	HOLLOW METAL
	FRAME MATERIAL	PAINTED	PAINTED	METAL	PAINTED	PAINTED
	FINISH	PER CLIENT	PER CLIENT	PAINTED	PER CLIENT	PER CLIENT
	SWING	SINGLE SWING, SINGLE DOOR	SINGLE SWING, SINGLE DOOR	SINGLE	SINGLE SWING, SINGLE DOOR	SINGLE SWING, SINGLE DOOR
	HARDWARE	3 HINGES, PASSAGE SET (ALWAYS UNLOCKED)	3 HINGES, STORAGE SET (LOCKED, OPEN WITH KEY)	SELF-CLOSER: FALCON SC80, OR EQUIV.	3 HINGES, PASSAGE SET (ALWAYS UNLOCKED)	3 HINGES, PASSAGE SET (ALWAYS UNLOCKED)
		DOOR HOLDER	DOOR HOLDER		DOOR HOLDER	DOOR HOLDER
		SELF-CLOSING			SELF-CLOSING	SELF-CLOSING
	MANUFACTURER	GENERIC	GENERIC	GENERIC	GENERIC	GENERIC
	MODEL	GENERIC	GENERIC	GENERIC	FLUSH HM FIRE RATED DOORS - FNV	GENERIC
	REMARKS	W/ 12"x36" GLASS VISION PANEL	W/ FUSIBLE LINK FIRE RATED LOUVER	W/ FUSIBLE LINK FIRE RATED LOUVER	W/ PUSH (PANIC) BAR HARDWARE AND FIRE-RATED WIRED GLASS VISION PANEL	

DOOR SCHEDULE	
TYPE	F
ELEVATION	
QUANTITY	SEE PLAN
DOOR SIZE	SEE ELEVATION FOR DETAIL
PANEL THICKNESS	1 3/4"
LOCATION	SEE PLAN
FIRE RATING	N/A
MATERIAL	METAL / GLASS
FRAME MATERIAL	PAINTED
FINISH	PER CLIENT
SWING	SINGLE SWING, DOUBLE DOOR
HARDWARE	3 HINGES
	PUSH BAR
	SELF-CLOSER: FALCON SC80, OR EQUIV.
MANUFACTURER	GENERIC
MODEL	GENERIC
REMARKS	SEE ENERGY ANALYSIS FOR ENERGY REQUIREMENT

OWNER:

NYC Buildings

ICCINTERNATIONAL CODE COUNCIL

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MEP ENGINEER :

STRUCTURAL ENGINEER :

PROJECT:

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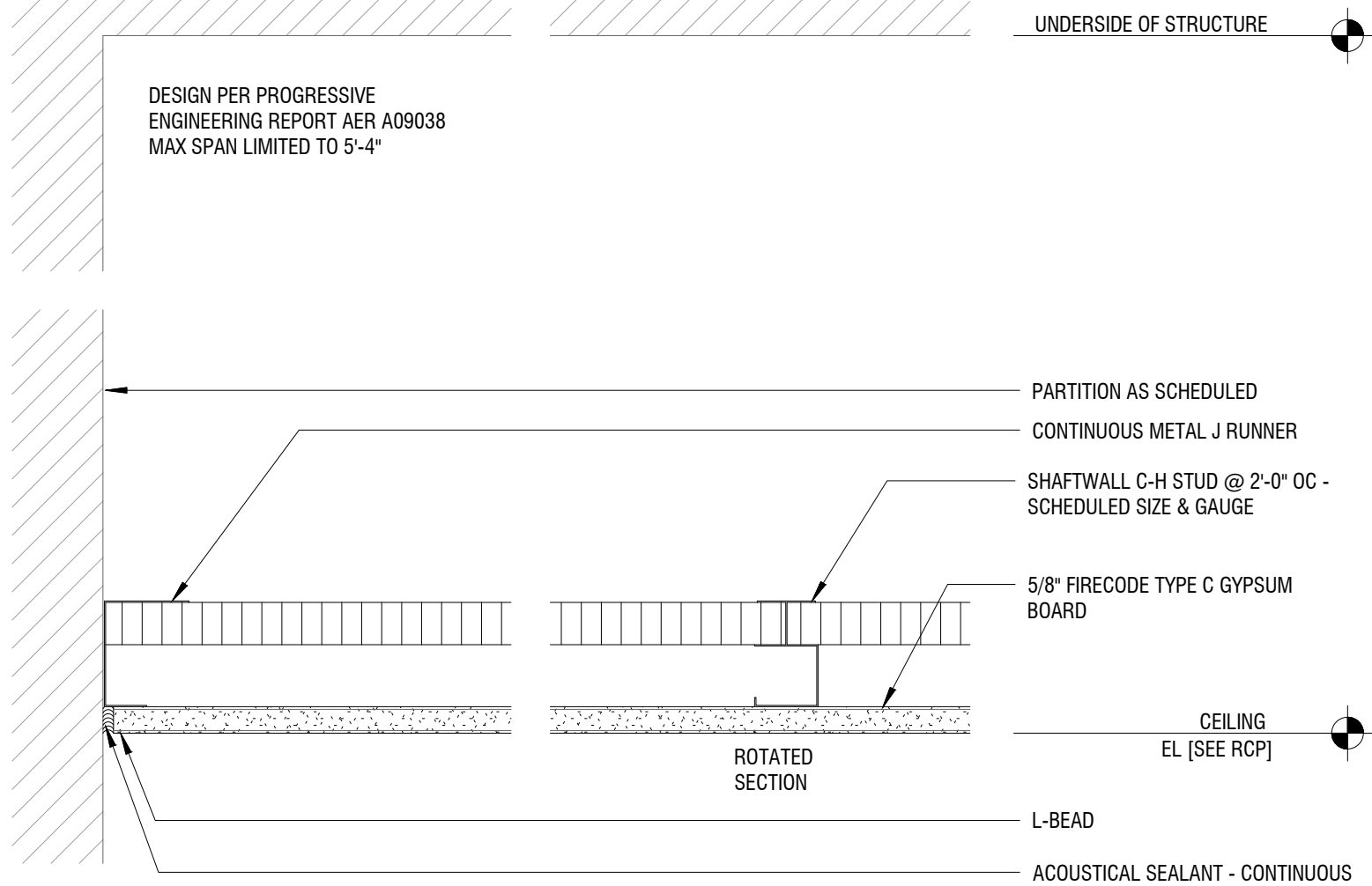
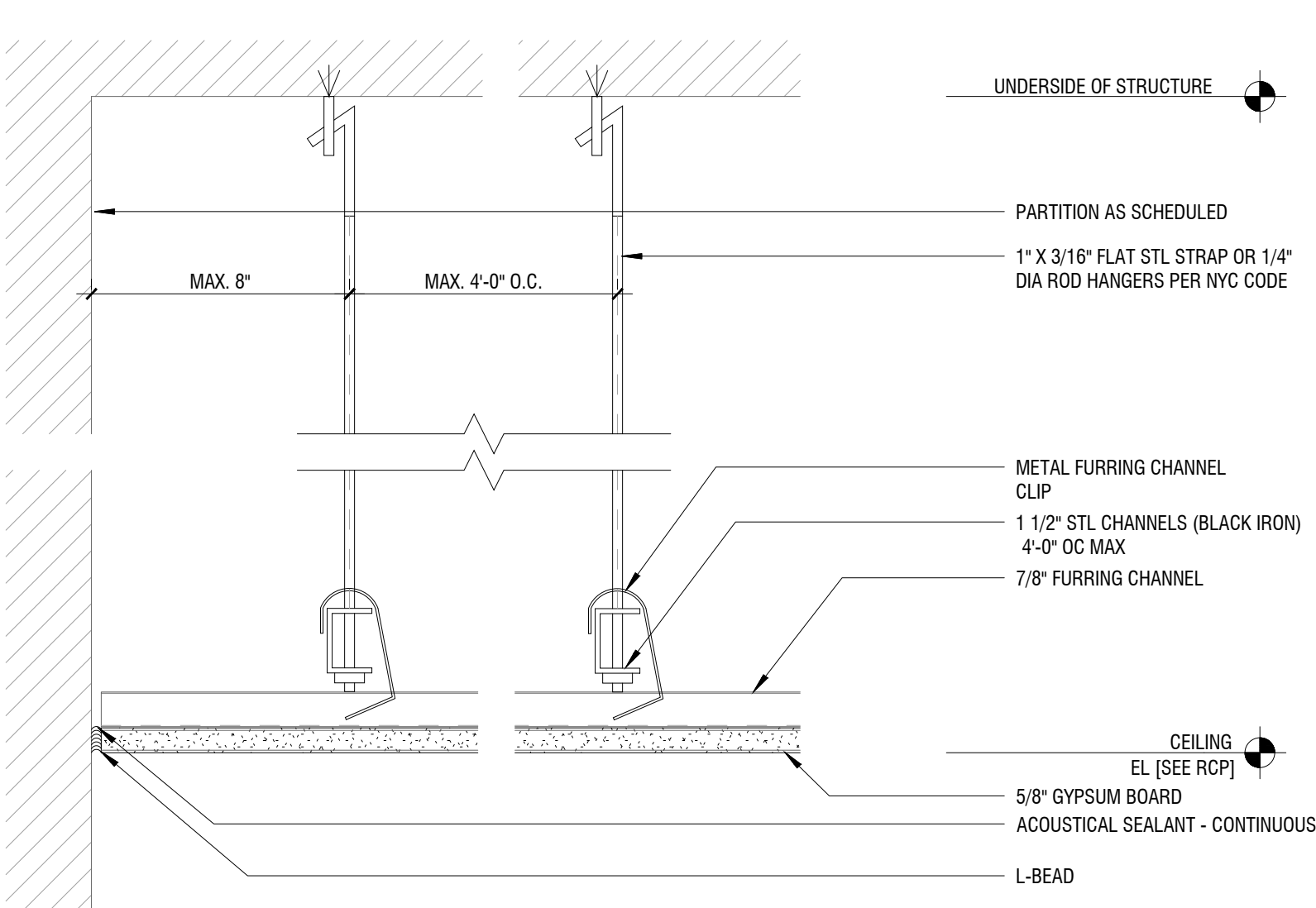
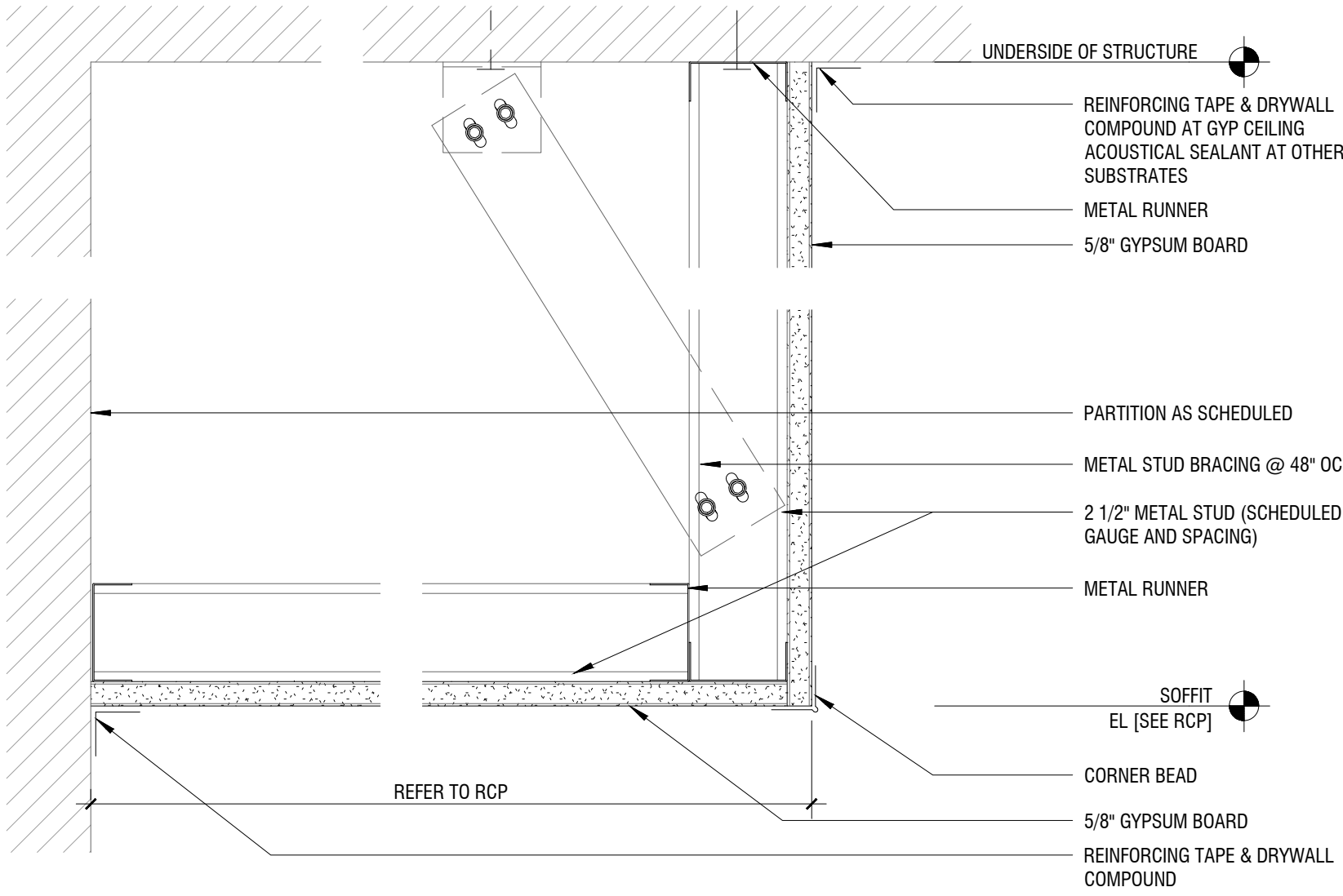
DOOR SCHEDULE

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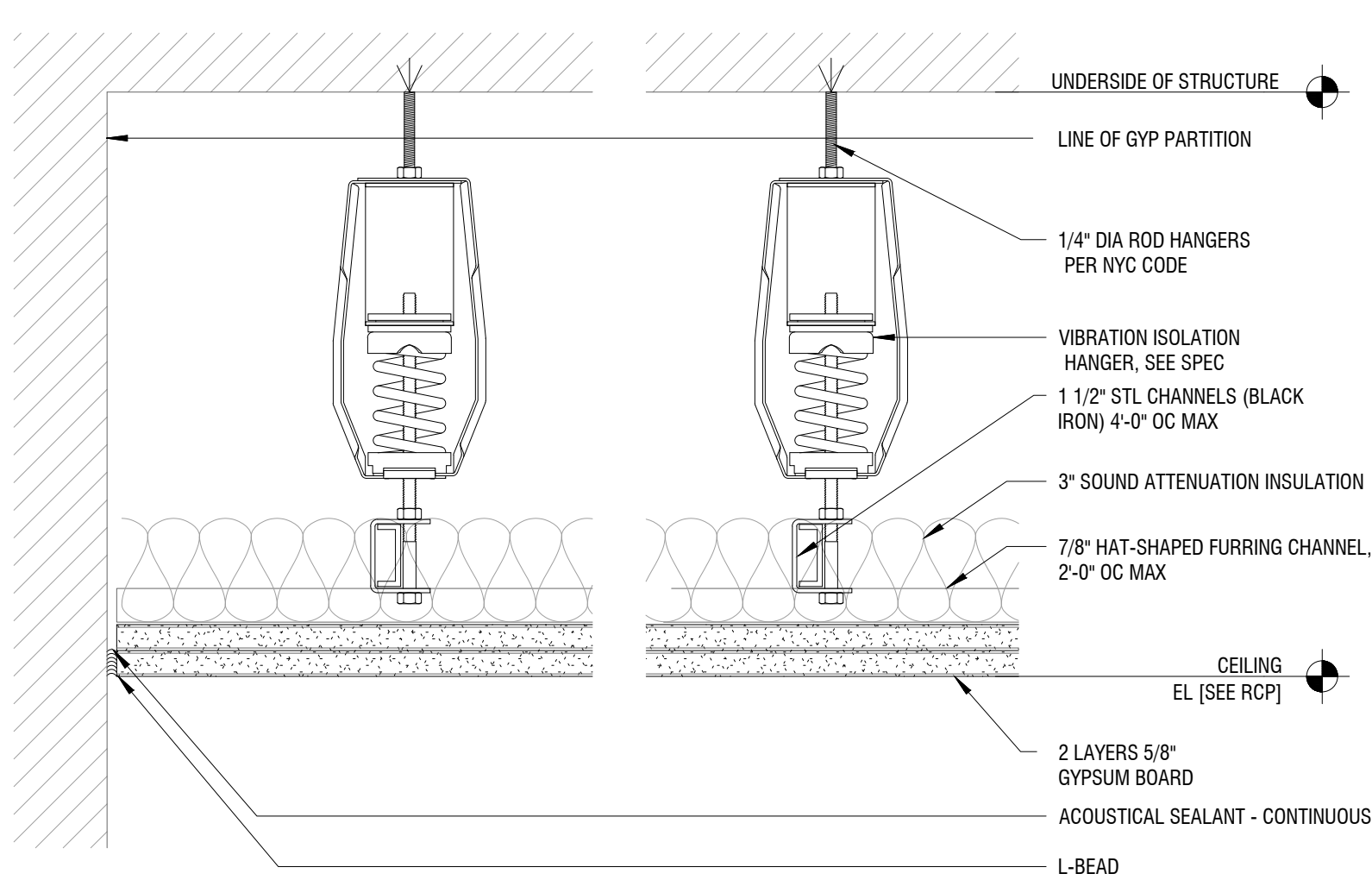
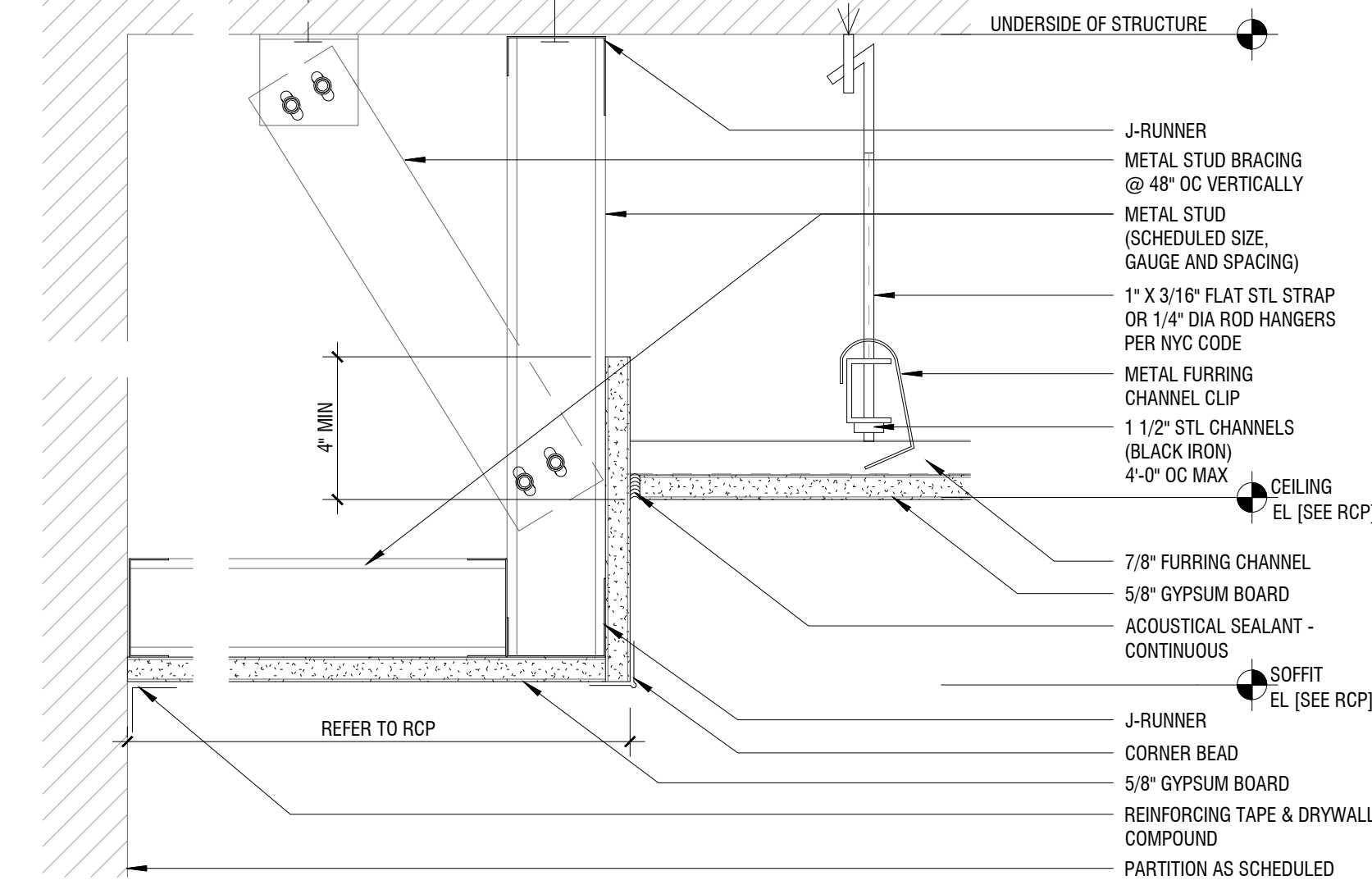
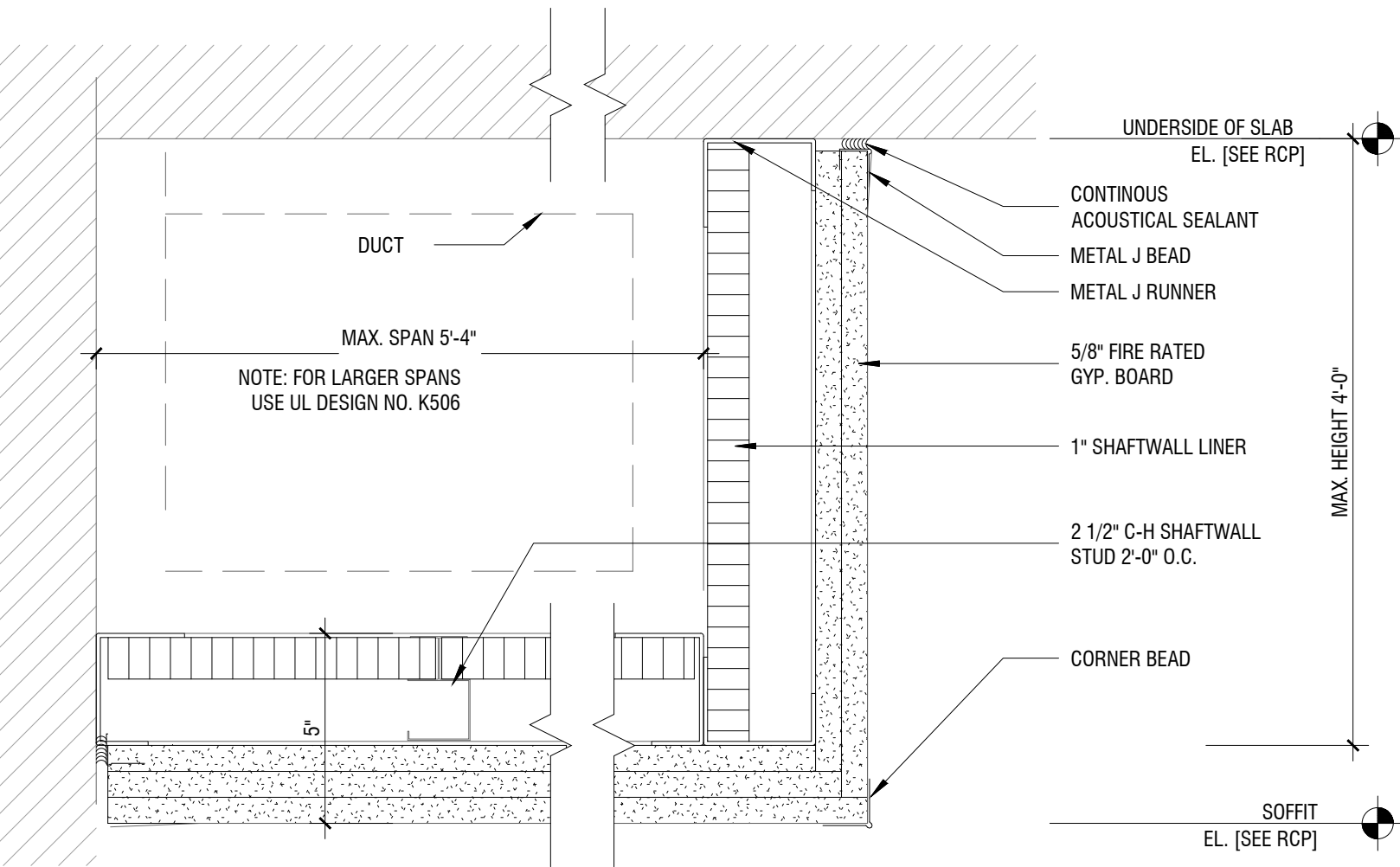
A-501.00



1 CEILING DETAILS - GYPSUM SOFFIT
SCALE: 3" = 1'-0"

2 CEILING DETAILS - TYPICAL SUSPENDED GYPSUM CEILING
SCALE: 3" = 1'-0"

3 CEILING DETAILS - TYPICAL 1HR CEILING MEMBRANE
SCALE: 3" = 1'-0"



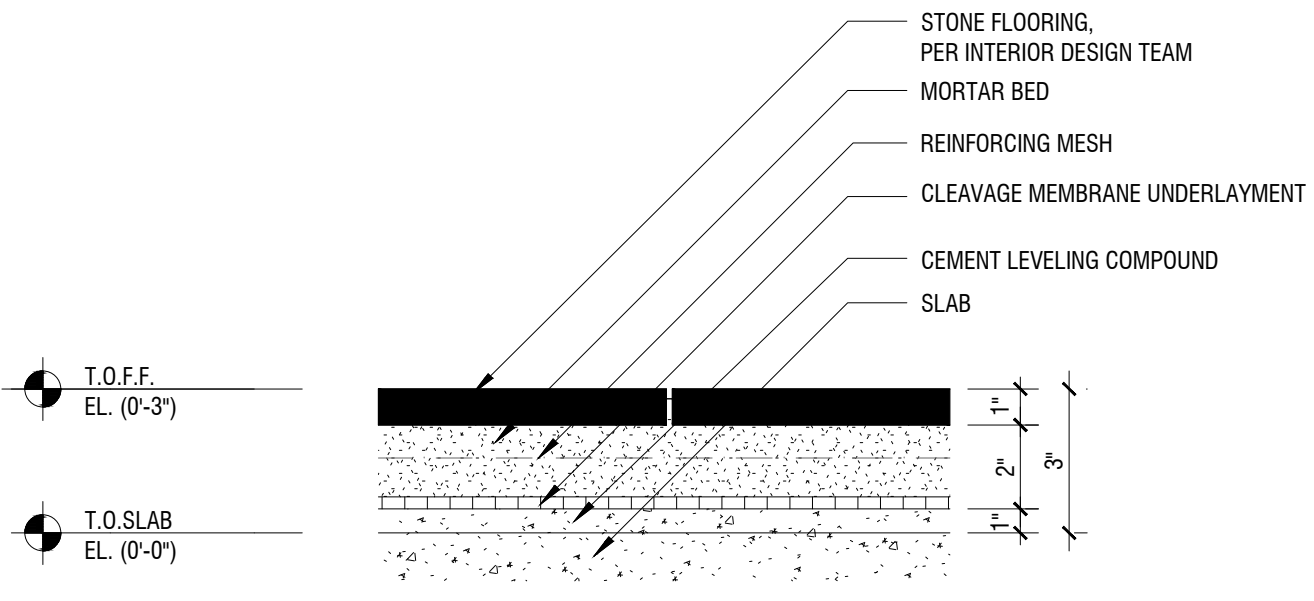
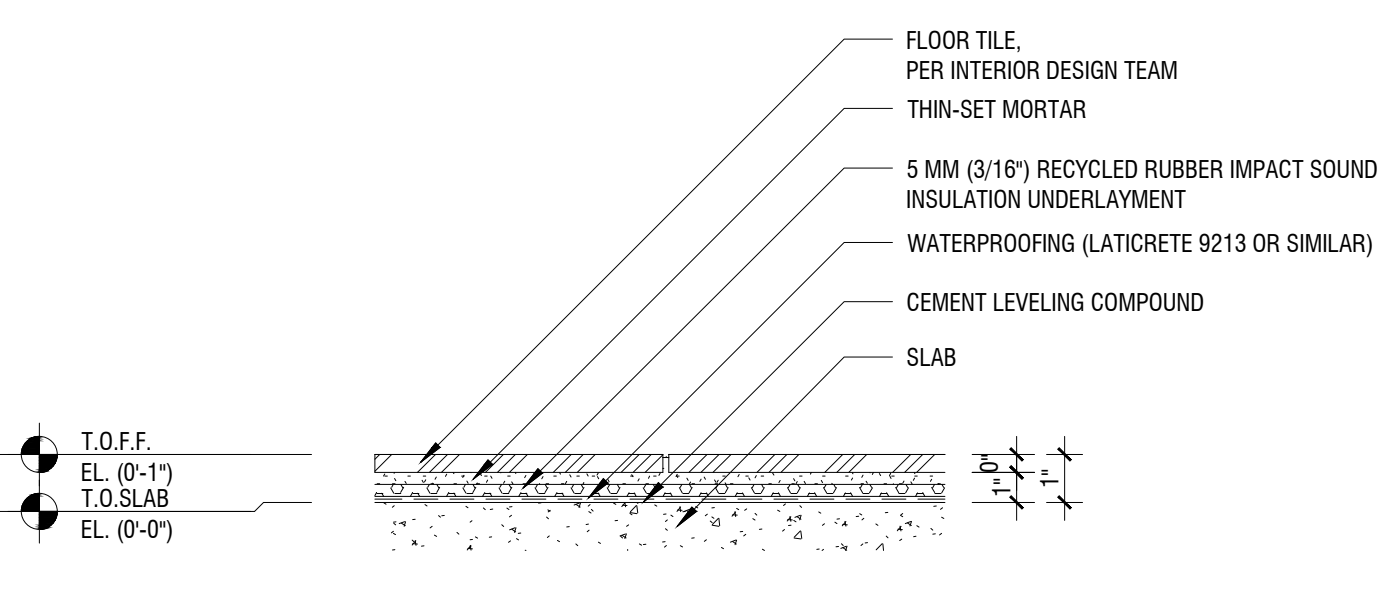
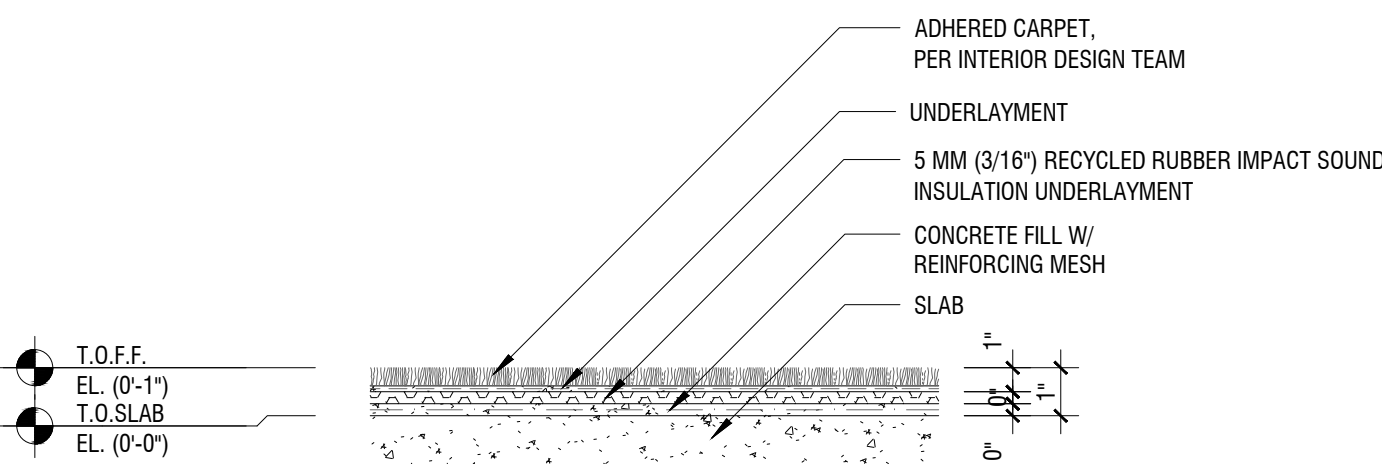
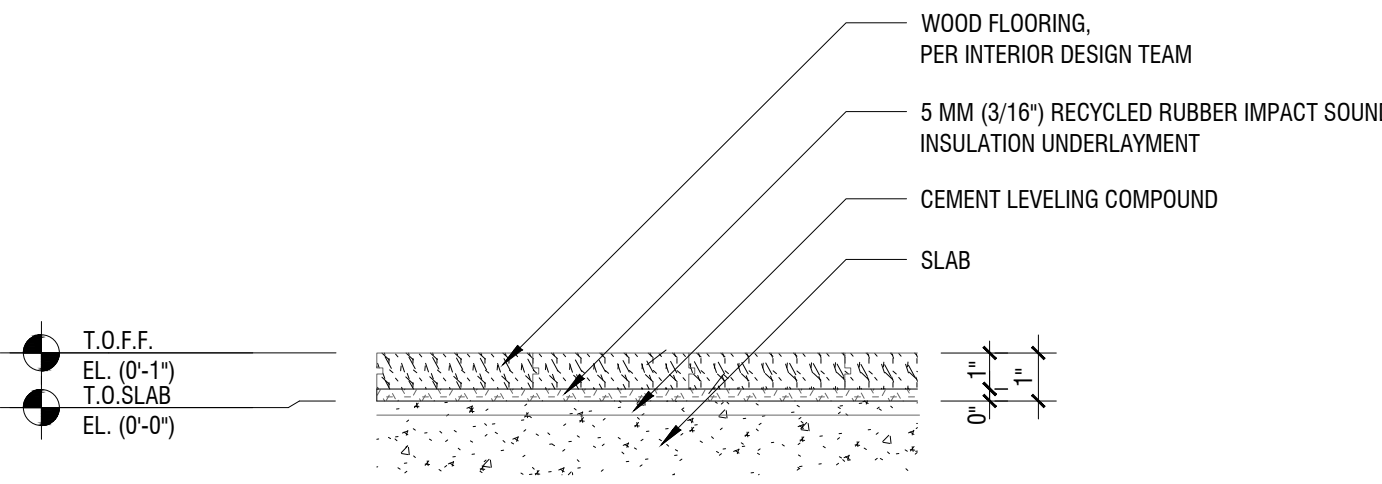
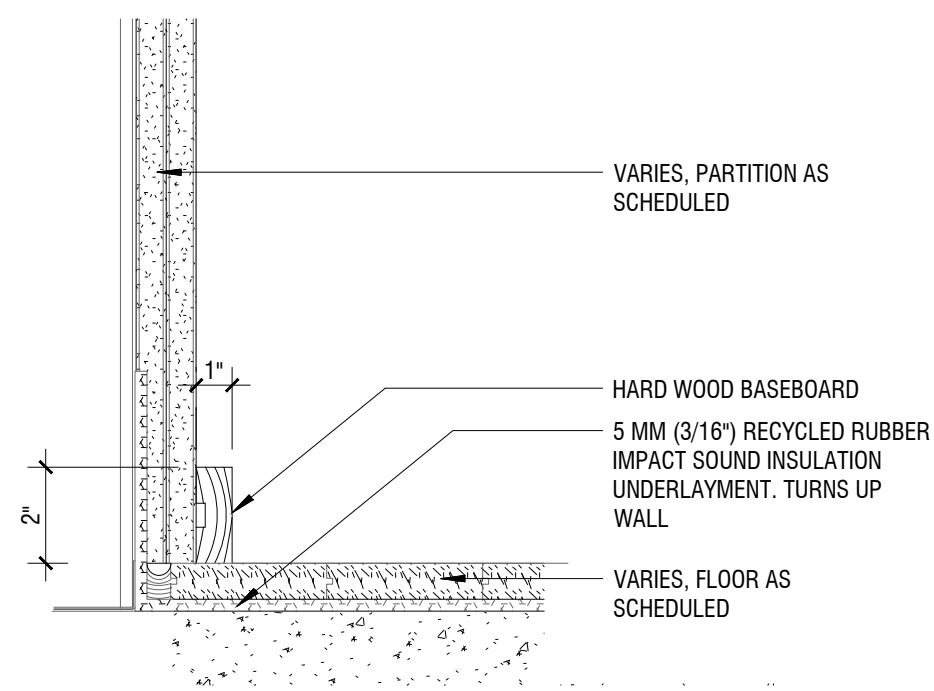
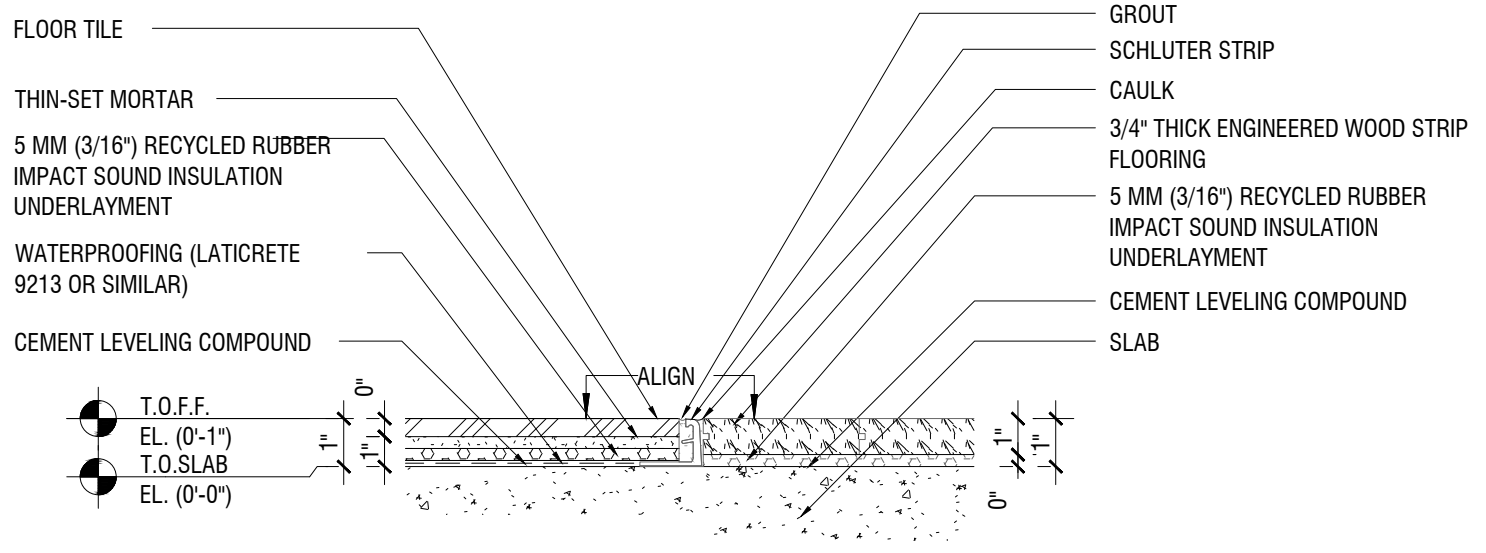
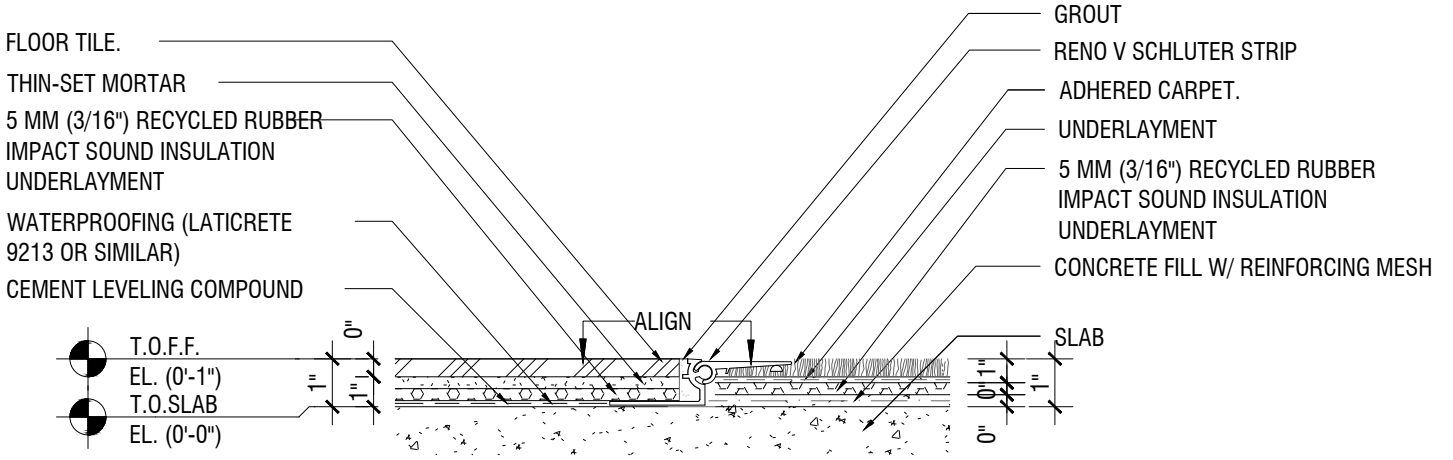
4 CEILING DETAILS - TYPICAL 2HR SOFFIT
SCALE: 3" = 1'-0"

5 CEILING DETAILS - TYPICAL SOFFIT LOWERED CEILING
SCALE: 3" = 1'-0"

6 CEILING DETAILS - TYPICAL SUSPENDED ACOUSTIC GYPSUM CEILING
SCALE: 3" = 1'-0"

NOTE:
NOT ALL CEILING TYPES ARE SELECTED TO BE USED, DETAILS ARE FOR WHERE APPLICABLE

- CEILING DETAILS - RESERVED
SCALE: 3" = 1'-0"

					
1	FLOOR DETAILS - STONE FLOOR (WHERE APPLICABLE) SCALE: 3" = 1'-0"	2	FLOOR DETAILS - TILE FLOOR (WHERE APPLICABLE) SCALE: 3" = 1'-0"	3	FLOOR DETAILS - CARPET FLOOR (WHERE APPLICABLE) SCALE: 3" = 1'-0"
					
4	FLOOR DETAILS - WOOD FLOOR (WHERE APPLICABLE) SCALE: 3" = 1'-0"	5	TYPICAL WOOD BASE DETAILS (WHERE APPLICABLE) SCALE: 3" = 1'-0"	6	TRANSITION DETAILS - TILE TO WOOD (WHERE APPLICABLE) SCALE: 3" = 1'-0"
		NOTE: NOT ALL FLOORING TYPES ARE SELECTED TO BE USED, DETAILS ARE FOR WHERE APPLICABLE			
7	FLOOR TRANSITION DETAILS - TILE TO CARPET (WHERE APPLICABLE) SCALE: 3" = 1'-0"	-	FLOOR DETAILS - RESERVED SCALE: 3" = 1'-0"	-	FLOOR DETAILS - RESERVED SCALE: 3" = 1'-0"

OWNER:

NYC

Buildings

ICC

INTERNATIONAL
CODE COUNCIL

ARCHITECT :

MEP ENGINEER :

STRUCTURAL ENGINEER :

PROJECT:

CASE STUDY 02

VERTICAL
ENLARGEMENT

DOB NOW JOB NUMBER:

DOB APPROVAL STAMP:

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

DRAWING TITLE:

TYPICAL DETAILS:
FLOORING

PROJECT #:

DRAWN BY:

SHEET TITLE :

A-511.00

THIS APPLICATION WILL COMPLY WITH 2025 NYC ENERGY CODE 101.5

NYC ENERGY CONSERVATION STATEMENT AND NOTES:
"TO THE BEST OF MY KNOWLEDGE, BELIEF AND PROFESSIONAL JUDGEMENT, THESE PLANS AND SPECIFICATIONS ARE IN COMPLIANCE WITH THE NEW YORK CITY ENERGY CONSERVATION CONSTRUCTION CODE, USING CHAPTER C4, NYCECC 2025"

2025 NYCECC ENERGY CODE ANALYSIS (CLIMATE ZONE 4A) COMMERCIAL CHAPTERS: C4 COMMERCIAL ENERGY EFFICIENCY

TABLE II – PROGRESS INSPECTIONS FOR ENERGY CODE COMPLIANCE – COMMERCIAL BUILDINGS				
	INSPECTION/TEST	PERIODIC (MINIMUM)	REFERENCE STANDARD (SEE ECC CHAPTER C6) OR OTHER CRITERIA	ECC OR OTHER CITATION
IIA ENVELOPE INSPECTIONS				
IIA2	INSULATION PLACEMENT AND R- VALUES: INSTALLED INSULATION FOR EACH COMPONENT OF THE CONDITIONED SPACE ENVELOPE AND AT JUNCTIONS BETWEEN COMPONENTS, INCLUDING THERMAL BRIDGES AND HEATED SLAB INSULATION, MUST BE VISUALLY INSPECTED TO ENSURE THAT THE R- VALUES ARE MARKED, THAT SUCH R- VALUES CONFORM TO THE R-VALUES IDENTIFIED IN THE CONSTRUCTION DOCUMENTS AND THAT THE INSULATION IS PROPERLY INSTALLED. CERTIFICATIONS FOR UNMARKED INSULATION ALSO BE VISUALLY INSPECTED.	AS REQUIRED TO VERIFY CONTINUOUS ENCLOSURE WHILE WALLS, CEILINGS AND FLOORS ARE OPEN	APPROVED CONSTRUCTION DOCUMENTS	*C303.1, C303.2, C402.1, C402.2, C402.6, C406; ASHRAE 90.1 –5.5, 5.6, 5.8, 5.9, 11 OR APPENDIX G, APPENDIX I"
IIA3	FENESTRATION AND DOOR U- FACTOR AND PRODUCT RATINGS: U-FACTORS, SHGC AND VT VALUES OF INSTALLED FENESTRATION MUST BE VISUALLY INSPECTED FOR CONFORMANCE WITH THE U- FACTORS, SHGC AND VT VALUES IDENTIFIED IN THE CONSTRUCTION	AS REQUIRED DURING INSTALLATION	*APPROVED CONSTRUCTION DOCUMENTS; NFRC 100, NFRC 200, NFRC 300, ANSI/DASMA 105, ASTM E972"	*C303.1, C303.1.3, C402.1.4, C402.4, C406; ASHRAE 90.1 –5.4.2, 5.5, 5.6, 5.8.2, 5.9, 11 OR APPENDIX G, APPENDIX I"
	DRAWINGS BY VERIFYING THE MANUFACTURER'S NFRC LABELS OR, WHERE NOT LABELED, USING THE RATINGS IN ECC TABLES C303.1.3(1), (2) AND (3).			
IIA4	*FENESTRATION AIR LEAKAGE: WINDOWS AND DOOR ASSEMBLIES, EXCEPT SITE-BUILT WINDOWS AND/OR DOORS, MUST BE VISUALLY INSPECTED TO VERIFY THAT INSTALLED ASSEMBLIES ARE LISTED AND LABELED BY THE MANUFACTURER TO THE REFERENCED STANDARD. FOR CURTAIN WALL, STOREFRONT GLAZING, COMMERCIAL ENTRANCE DOORS AND REVOLVING DOORS, THE TESTING REPORTS MUST BE REVIEWED TO VERIFY THAT THE INSTALLED ASSEMBLY COMPLIES WITH THE STANDARD CITED IN THE APPROVED PLANS. WEATHERSEALS AT LOADING DOCKS MUST BE VISUALLY VERIFIED.*	AS REQUIRED DURING INSTALLATION; PRIOR TO FINAL CONSTRUCTION INSPECTION	NFRC 400, AAMA/WDMA/CSA 101/I.S.2/A440; ASTM E283; ANSI/DASMA 105	*C402.5.2, C402.5.6; ASHRAE 90.1 – 5.4.3.2, 5.4.3.3, 5.8.2, 5.9"
IIA5	FENESTRATION AREAS: DIMENSIONS OF WINDOWS, DOORS AND SKYLIGHTS MUST BE VERIFIED BY VISUAL INSPECTION.	PRIOR TO FINAL CONSTRUCTION INSPECTION	APPROVED CONSTRUCTION DOCUMENTS	*C402.4; ASHRAE 90.1 – 5.4, 5.5.4, 5.6, 5.9, 11 OR APPENDIX G"
IIA6	*AIR BARRIER VISUAL INSPECTION: OPENINGS AND PENETRATIONS IN THE BUILDING ENVELOPE, INCLUDING SITE-BUILT FENESTRATION AND DOORS, MUST BE VISUALLY INSPECTED TO VERIFY THAT A CONTINUOUS AIR BARRIER AROUND THE ENVELOPE FORMS AN AIR-TIGHT ENCLOSURE. THE PROGRESS INSPECTOR MUST VISUALLY INSPECT TO VERIFY THAT MATERIALS AND/OR ASSEMBLIES HAVE BEEN TESTED AND MEET THE REQUIREMENTS OF THE RESPECTIVE STANDARDS, OR MUST OBSERVE THE TESTING OF THE BUILDING AND/OR ASSEMBLIES AND VERIFY THAT THE BUILDING AND/OR ASSEMBLIES MEET THE REQUIREMENTS OF THE STANDARD, IN ACCORDANCE WITH THE STANDARD(S) CITED IN THE APPROVED PLANS."	AS REQUIRED DURING CONSTRUCTION	APPROVED CONSTRUCTION DOCUMENTS; ASTM E2178, ASTM E2357, ASTM E1677, ASTM E779, ASTM E283.	*C402.5; ASHRAE 90.1 – 5.4.3.1, 5.4.3.5, 5.9"
IIA7	AIR BARRIER TESTING: TESTING MUST BE PERFORMED IN	AS REQUIRED DURING	APPROVED CONSTRUCTION DOCUMENTS; ASTM E 779,	C402.5, C402.5.1.3, C406; ASHRAE 90.1
	*"ACCORDANCE WITH SECTION ECC C402.5.1.3.1 OR ASHRAE 90.1 SECTION 5.4.3.1.3, AND SHALL BE ACCEPTED IF THE BUILDING MEETS THE REQUIREMENTS DETAILED IN SUCH SECTION. TEST RESULTS SHALL BE RETAINED IN ACCORDANCE WITH THE PROVISIONS OF TITLE 28 OF THE ADMINISTRATIVE CODE. TESTING MUST BE PERFORMED BY A THIRD- PARTY INDEPENDENT OF THE CONTRACTOR AND ACCEPTABLE TO THE DEPARTMENT."	CONSTRUCTION, OR PRIOR TO FINAL CONSTRUCTION INSPECTION	ANSI/BOMA Z65.1, ASTM E3158, RESNET/ICC 380	"– 5.4.3.1.3, 5.9, APPENDIX I"
IIA8	*AIR BARRIER CONTINUITY PLAN TESTING: EACH UNIQUE AIR BARRIER JOINT OR SEAM MUST BE TESTED OR INSPECTED FOR COMPLIANCE. DOCUMENTATION INCLUDES THE METHOD OF TEST PERFORMED ON EACH UNIQUE AIR BARRIER JOINT OR SEAM AND THE RESULTS OF THE TEST. IF AN AIR BARRIER JOINT OR SEAM HAS A DEFICIENCY, THE DEFICIENCY MUST BE NOTED, AND RETESTED UNTIL IT COMPLIES WITH THE TESTING REQUIREMENTS. TEST RESULTS MUST BE RETAINED IN ACCORDANCE WITH THE PROVISIONS OF TITLE 28 OF THE ADMINISTRATIVE CODE. TESTING MUST BE PERFORMED BY A THIRD-PARTY INDEPENDENT OF THE CONTRACTOR AND ACCEPTABLE TO THE DEPARTMENT."	AS REQUIRED DURING CONSTRUCTION	APPROVED CONSTRUCTION DOCUMENTS; ASTM E779, ASTM E1186, ASTM E2813, ASTM E3158	*C402.5.1.3; ASHRAE 90.1 – 5.4.3.1.3, 5.9"
IIB MECHANICAL AND SERVICE WATER HEATING INSPECTIONS				
IIB2	SHUTOFF DAMPERS: DAMPERS FOR STAIR AND ELEVATOR SHAFT VENTS AND OTHER OUTDOOR AIR INTAKES AND EXHAUST OPENINGS INTEGRAL TO THE BUILDING ENVELOPE MUST BE VISUALLY INSPECTED TO VERIFY THAT SUCH DAMPERS, EXCEPT WHERE PERMITTED TO BE GRAVITY DAMPERS, COMPLY WITH APPROVED CONSTRUCTION DRAWINGS.	AS REQUIRED DURING INSTALLATION	APPROVED CONSTRUCTION DOCUMENTS; AMCA 5000	*C402.5.5, C403.7.7; ASHRAE 90.1 – 6.4.3.4"
	MANUFACTURER'S LITERATURE MUST BE REVIEWED TO VERIFY THAT THE PRODUCT HAS BEEN TESTED AND FOUND TO MEET THE STANDARD.			
IIB3	HVAC-R, COMMERCIAL KITCHEN EQUIPMENT, AND SERVICE WATER HEATING EQUIPMENT: EQUIPMENT SIZING, EFFICIENCIES, PIPE SIZING AND OTHER PERFORMANCE FACTORS OF ALL MAJOR EQUIPMENT UNITS, AS DETERMINED BY THE APPLICANT OF RECORD, AND NO LESS THAN 15% OF MINOR EQUIPMENT UNITS, MUST BE VERIFIED BY VISUAL INSPECTION AND, WHERE NECESSARY, REVIEW OF MANUFACTURER'S DATA. POOL HEATERS AND COVERS MUST BE VERIFIED BY VISUAL INSPECTION.	PRIOR TO FINAL PLUMBING AND CONSTRUCTION INSPECTION	*APPROVED CONSTRUCTION DOCUMENTS, ASHRAE 183, ASHRAE HVAC SYSTEMS AND EQUIPMENT HANDBOOK"	*C403.1, C403.2, C403.3, C403.7.5, C404.2, C404.5, C404.9, C404.10, C406; ASHRAE 90.1 – 6.3, 6.4, 6.5, 6.7, 7.4, 7.5, 7.8, 10.4.6, APPENDIX I"

IIB4	HVAC-R AND SERVICE WATER HEATING SYSTEM CONTROLS: NO LESS THAN 20% OF EACH TYPE OF REQUIRED CONTROLS MUST BE VERIFIED BY VISUAL INSPECTION AND TESTED FOR FUNCTIONALITY AND PROPER OPERATION. SUCH CONTROLS MUST INCLUDE, BUT ARE NOT LIMITED TO: THERMOSTATIC OFF-HOUR ZONES FREEZE PROTECTION/SNOW- AND ICE-MELT SYSTEM VENTILATION SYSTEM AND FAN CONTROLS ENERGY RECOVERY SYSTEMS KITCHEN/LAB EXHAUST SYSTEMS FAN SYSTEMS SERVING SINGLE AND MULTIPLE ZONES OUTDOOR HEATING SYSTEMS HVAC CONTROL IN HOTEL/MOTEL GUEST ROOMS AIR/WATER ECONOMIZERS & CONTROLS HYDRONIC SYSTEMS HEAT REJECTION SYSTEMS HOT GAS BYPASS LIMITATION REFRIGERATION SYSTEMS DOOR SWITCHES COMPUTER ROOM SYSTEMS SERVICE WATER HEATING SYSTEMS POOL HEATER AND TIME SWITCHES CONTROLS WITH SEASONALLY DEPENDENT FUNCTIONALITY: CONTROLS WHOSE COMPLETE OPERATION CANNOT BE DEMONSTRATED DUE TO PREVAILING WEATHER CONDITIONS TYPICAL OF THE SEASON DURING WHICH PROGRESS INSPECTIONS WILL BE PERFORMED SHALL BE PERMITTED TO BE SIGNED OFF FOR THE PURPOSE OF A TEMPORARY CERTIFICATE OF OCCUPANCY WITH ONLY A VISUAL INSPECTION, PROVIDED, HOWEVER, THAT THE PROGRESS INSPECTOR MUST PERFORM A SUPPLEMENTAL INSPECTION WHERE THE CONTROLS ARE VISUALLY INSPECTED AND TESTED FOR FUNCTIONALITY AND PROPER OPERATION DURING THE NEXT IMMEDIATE SEASON THEREAFTER. THE OWNER MUST PROVIDE FULL ACCESS TO THE PROGRESS INSPECTOR WITHIN TWO WEEKS OF THE PROGRESS INSPECTOR'S REQUEST FOR SUCH ACCESS TO PERFORM THE PROGRESS INSPECTION. FOR SUCH SUPPLEMENTAL INSPECTIONS, THE DEPARTMENT MUST BE NOTIFIED BY THE APPROVED PROGRESS INSPECTION AGENCY OF ANY UNRESOLVED DEFICIENCIES IN THE INSTALLED WORK WITHIN 180 DAYS OF SUCH SUPPLEMENTAL INSPECTION.	AFTER INSTALLATION AND PRIOR TO FINAL ELECTRICAL AND CONSTRUCTION INSPECTION, EXCEPT THAT FOR CONTROLS WITH SEASONALLY DEPENDENT FUNCTIONALITY, SUCH TESTING MUST BE PERFORMED BEFORE SIGN-OFF FOR ISSUANCE OF A FINAL CERTIFICATE OF OCCUPANCY	"APPROVED CONSTRUCTION DOCUMENTS, INCLUDING CONTROL SYSTEM NARRATIVES; ASHRAE GUIDELINE 1: THE HVAC COMMISSIONING PROCESS WHERE APPLICABLE"	*C403, C404, C406, ASHRAE 90.1 – 6.3, 6.4, 6.5, 6.6, 7.4, 7.5, APPENDIX I"
IIB5	HVAC-R AND SERVICE WATER PIPING DESIGN AND INSULATION: INSTALLED PIPING INSULATION MUST BE VISUALLY INSPECTED TO VERIFY PROPER INSULATION PLACEMENT AND VALUES. SERVICE HOT WATER DISTRIBUTION SYSTEMS MUST BE INSPECTED TO VERIFY THE SUPPLY OF HEATED WATER.	AFTER INSTALLATION AND PRIOR TO CLOSING SHAFTS, CEILINGS AND WALLS	APPROVED CONSTRUCTION DOCUMENTS;	*C403.11, C404.4, C404.5; MC 603.9; ASHRAE 90.1 – 6.3, 6.4.4, 6.8.2, 6.8.3; 7.4.3"
IIB6	"DUCT LEAKAGE TESTING, INSULATION AND DESIGN: FOR DUCT SYSTEMS DESIGNED TO OPERATE AT STATIC PRESSURES IN EXCESS OF 3 INCHES W.G. (747 PA), REPRESENTATIVE SECTIONS, AS DETERMINED BY THE PROGRESS INSPECTOR, TOTALING AT LEAST 25% OF THE DUCT AREA, MUST BE TESTED TO VERIFY THAT ACTUAL AIR LEAKAGE IS BELOW ALLOWABLE AMOUNTS. INSTALLED DUCT INSULATION MUST BE VISUALLY INSPECTED TO VERIFY PROPER INSULATION PLACEMENT AND VALUES. JOINTS, LONGITUDINAL AND TRANSVERSE SEAMS AND CONNECTIONS IN DUCTWORK MUST BE VISUALLY INSPECTED FOR PROPER SEALING."	AFTER INSTALLATION AND SEALING AND PRIOR TO CLOSING SHAFTS, CEILINGS AND WALLS	APPROVED CONSTRUCTION DOCUMENTS; SMACNA HVAC AIR DUCT LEAKAGE TEST MANUAL; SMACNA DUCT CONSTRUCTION STANDARDS, METAL AND FLEXIBLE	C403.11; ASHRAE 90.1 – 6.4.4.2.2
IIC ELECTRICAL POWER AND LIGHTING SYSTEMS				
IIC1	METERING: THE PRESENCE AND OPERATION OF ALL REQUIRED METERS FOR MONITORING TOTAL ELECTRICAL ENERGY USAGE AND/OR TOTAL FUEL USE, SYSTEM ENERGY USAGE, TENANT ENERGY USAGE, OR ELECTRICAL ENERGY USAGE IN THE BUILDING, IN INDIVIDUAL DWELLING UNITS, OR IN TENANT SPACES MUST BE VERIFIED BY VISUAL INSPECTION.	PRIOR TO FINAL ELECTRICAL AND CONSTRUCTION INSPECTION	APPROVED CONSTRUCTION DOCUMENTS	*C405.5, C405.11, C405.12; ASHRAE 90.1 – 8.4.3, 8.4.5, 8.4.6, 10.4.5"
IIC2	LIGHTING IN DWELLING UNITS: LAMPS IN PERMANENTLY INSTALLED LIGHTING FIXTURES MUST BE VISUALLY INSPECTED TO VERIFY COMPLIANCE WITH HIGH-EFFICACY REQUIREMENTS.	PRIOR TO FINAL ELECTRICAL AND CONSTRUCTION INSPECTION	APPROVED CONSTRUCTION DOCUMENTS	C405.1; ASHRAE 90.1 – 9.1.1
IIC3	INTERIOR LIGHTING POWER: INSTALLED LIGHTING MUST BE VERIFIED FOR COMPLIANCE WITH THE LIGHTING POWER ALLOWANCE BY VISUAL INSPECTION OF FIXTURES, LAMPS, BALLASTS AND TRANSFORMERS.	PRIOR TO FINAL ELECTRICAL AND CONSTRUCTION INSPECTION	APPROVED CONSTRUCTION DOCUMENTS	*C405.3, C406; ASHRAE 90.1 –9.1, 9.2, 9.5, 9.6, 9.7; 1RCNY §101-07(C)(3)(V)(C)4, APPENDIX I"
IIC4	EXTERIOR LIGHTING POWER: INSTALLED LIGHTING MUST BE VERIFIED FOR COMPLIANCE WITH SOURCE EFFICACY AND/OR THE LIGHTING POWER ALLOWANCE BY VISUAL INSPECTION OF FIXTURES, LAMPS, BALLASTS AND RELEVANT TRANSFORMERS.	PRIOR TO FINAL ELECTRICAL AND CONSTRUCTION INSPECTION	APPROVED CONSTRUCTION DOCUMENTS	*C405.4; ASHRAE 90.1 –9.4.2; 1RCNY §101-07(C)(3)(V)(C)4"
IIC5	LIGHTING CONTROLS: EACH TYPE OF REQUIRED LIGHTING CONTROLS, INCLUDING: OCCUPANT SENSORS MANUAL INTERIOR LIGHTING CONTROLS LIGHT-REDUCTION CONTROLS AUTOMATIC LIGHTING SHUT- OFF DAYLIGHT ZONE CONTROLS SLEEPING UNIT CONTROLS EXTERIOR LIGHTING CONTROLS EGRESS ILLUMINATION CONTROLS MUST BE VERIFIED BY VISUAL INSPECTION AND TESTED FOR FUNCTIONALITY AND PROPER OPERATION.	PRIOR TO FINAL ELECTRICAL AND CONSTRUCTION INSPECTION	APPROVED CONSTRUCTION DOCUMENTS, INCLUDING CONTROL SYSTEM NARRATIVES	*C405.2, C406; ASHRAE 90.1 – 9.4.1, 9.4.3, 9.7, APPENDIX I"
IIC6	ELECTRIC MOTORS AND ELEVATORS: WHERE REQUIRED BY THE CONSTRUCTION DOCUMENTS FOR ENERGY CODE COMPLIANCE, MOTOR LISTING OR LABELS BE VISUALLY INSPECTED TO VERIFY THAT THEY COMPLY WITH THE RESPECTIVE ENERGY REQUIREMENTS IN THE CONSTRUCTION DOCUMENTS. ELEVATORS AND ESCALATORS MUST BE INSPECTED FOR COMPLIANCE WITH REGENERATIVE DRIVE REQUIREMENTS.	PRIOR TO FINAL ELECTRICAL AND CONSTRUCTION INSPECTION	APPROVED CONSTRUCTION DOCUMENTS	*C403.8, C405.6, C405.7, C405.8, C405.9; ASHRAE 90.1 – 8.4.4, 10.4, 10.8"
IID OTHER				
IID1	MAINTENANCE INFORMATION: MAINTENANCE MANUALS FOR MECHANICAL, SERVICE HOT WATER AND ELECTRICAL EQUIPMENT AND SYSTEMS REQUIRING PREVENTIVE MAINTENANCE MUST BE REVIEWED FOR APPLICABILITY TO INSTALLED EQUIPMENT AND SYSTEMS BEFORE SUCH MANUALS ARE PROVIDED TO THE OWNER. LABELS REQUIRED FOR SUCH EQUIPMENT OR SYSTEMS MUSTL BE INSPECTED FOR ACCURACY AND COMPLETENESS.	PRIOR TO SIGN- OFF OR ISSUANCE OF FINAL CERTIFICATE OF OCCUPANCY	APPROVED CONSTRUCTION DOCUMENTS, INCLUDING ELECTRICAL DRAWINGS WHERE APPLICABLE; ASHRAE GUIDELINE 4: PREPARATION OF OPERATING AND MAINTENANCE DOCUMENTATION FOR BUILDING SYSTEMS	*C408.11, C408.2.5.2, C408.3.2; ASHRAE 90.1 – 4.2.2.3, 6.7.2.2, 6.7.2.3.5.2, 8.7.2, 9.4.3.2.2, 9.7.2.2"

OWNER:

NYC

Buildings

ICC

INTERNATIONAL CODE COUNCIL

ARCHITECT:

MEP ENGINEER:

STRUCTURAL ENGINEER:

PROJECT:

CASE STUDY 02

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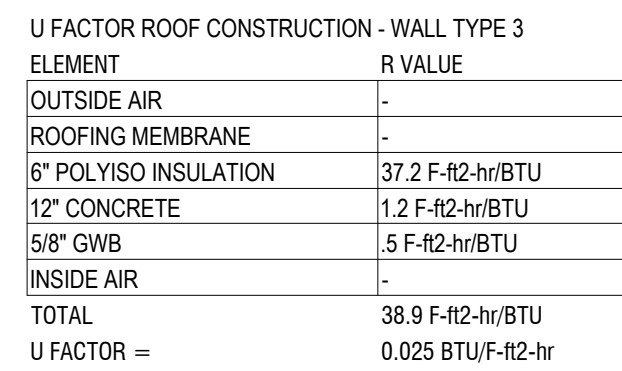
ENERGY ANALYSIS

PROJECT #:

DRAWN BY:

SHEET TITLE:

EN-100.00



STRUCTURAL ENGINEER -

CASE STUDY 02

VERTICAL ENLARGEMENT

2026.08.14	SUBMIT FOR DOB REVIEW
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2026.05.26	SUBMIT FOR DOB REVIEW

EN-102.00

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

FACADE AREA: 15,712 SF X .40 = 6,248 SF
FENESTRATION AREA: 6,234 SF
 $6,234 / 15,712 = .39$
.39 < .40 COMPLIES

2 REAR ELEVATION
SCALE: 1/16" = 1'-0"

3 EAST ELEVATION
SCALE: 1/16" = 1'-0"

4 WEST ELEVATION
SCALE: 1/16" = 1'-0"

OPAQUE WALL CALCULATIONS		
ELEVATION	WALL AREA	FENESTRATION
FRONT	5,600 SF	2,054 SF
BACK	5,600 SF	2,048 SF
EAST	2,256 SF	1,066 SF
WEST	2,256 SF	1,066 SF
TOTAL	15,712 SF	6,234 SF
$6,234 / 15,712 = .39$ $.39 < .40$ COMPLIES		

THESE DRAWINGS FOR EBC
TRAINING PURPOSES ONLY

