US Army Corps
of Engineers ®

WEST POINT, NY
USMA BUILDING 607 LINCOLN HALL RENOVATION

D3296400

SOLICITATION NUMBER : W912DS-19-R-0014
CONTRACT NUMBER : W912DS-19-C-0031-L
ISSUE DATE: 01 MARCH 2023

VOLUME FOUR

HAZMAT	CIVIL	LANDSCAPE	STRUCTURAL	ARCHITECTURE	INTERIORS	FIRE PROTECTION LIFE SAFTEY	PLUMBING MECHANICAL	ELECTRICAL	TELECOM SECURITY
NO SEAL SHEETS ARE FOR BIDDING AND INFORMATION ONLY	STATE OF NEW YORK · KENNETH R. BIENKOWSKI · LICENSED PROFESSIONAL ENGINEER · 03/01/2023	REGISTERED LANDSCAPE ARCHITECT · TAMARA L. SCHLOGBAUM · 001981 · STATE OF NEW YORK	COMMONWEALTH OF VIRGINIA · JOHN CHARLES GALLAGHER · Lic. No. 031804 · 03/01/2023 · PROFESSIONAL ENGINEER	COMMONWEALTH OF VIRGINIA · DERRICK RUDOLF STELTZER · Lic. No. 0401015567 · 03/01/2023 · ARCHITECT	COMMONWEALTH OF VIRGINIA · 03/01/2023 · Digital Signature Briana C. Ernsting 0412000817 · CERTIFIED INTERIOR DESIGNER	COMMONWEALTH OF VIRGINIA · JEFFREY C. MCLAUGHLIN · Lic. No. 030373 · 03/01/2023 · PROFESSIONAL ENGINEER	COMMONWEALTH OF VIRGINIA · NASRI SLEEM · Lic. No. 033845 · 03/01/2023 · PROFESSIONAL ENGINEER	COMMONWEALTH OF VIRGINIA · 03/01/2023 · YOSEPH Z. SOLOMON · Lic. No. 0402047869 · PROFESSIONAL ENGINEER	REGISTERED COMMUNICATIONS DISTRIBUTION DESIGNER · Bicsi · SCOTT L HANSBERRY · BICSI ID# 112947 · EXPIRES 12-31-24 · RCDD · 03/01/2023

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US ARMY CORPS OF ENGINEERS
LINCOLN HALL
WEST POINT, NEW YORK

JACOBS / EWING COLE A Joint Venture

BUILDINGS 605/607 RENOVATION - LINCOLN HALL

COVER SHEET - VOLUME FOUR

SHEET ID
G-041

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WEST POINT, NEW YORK

JACOBS / EWING COLE *A Joint Venture*

BUILDINGS 605/607 RENOVATION - LINCOLN HALL

INDEX OF DRAWINGS - VOLUME ONE AND TWO

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G-042

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US Army Corps of Engineers ®

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SUBMITTED BY:

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US ARMY CORPS OF ENGINEERS
LINCOLN HALL
WEST POINT, NEW YORK

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BUILDINGS 605/607 RENOVATION - LINCOLN HALL

INDEX OF DRAWINGS - VOLUME THREE AND FOUR

SHEET ID

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REVISED RTA SUBMISSION 03/01/2023

ELECTRICAL ABBREVIATIONS

AFF	ABOVE FINISHED FLOOR
ANN	ANNUNCIATOR
ARCH	ARCHITECTURAL
AS	AMMETER SWITCH
ASYM	ASYMMETRICAL
ATS	AUTOMATIC TRANSFER SWITCH
AV	AUDIO AND VISUAL
BATT	BATTERY
BB	BACKBONE
BBV	BACKBONE VOICE
BEPB	BUILDING ENTRANCE PROTECTION BLOCKS
BKR	BREAKER
BLDG	BUILDING
C	CONDUIT
CAB	CABINET
CAT	CATEGORY
CB	CIRCUIT BREAKER
CCTV	CLOSED CIRCUIT TELEVISION
CKT	CIRCUIT
CLG	CEILING
CLP	CITY LIGHT AND POWER (THE UTILITY COMPANY)
COMM	COMMUNICATIONS
CONST	CONSTRUCTION
CONT	CONTROL
CPT	CONTROL POWER TRANSFORMER
CT	COUNTER TOP
△	DELTA CONNECTED
DB	DISTRIBUTION BOARD
DIST	DISTRIBUTION
DS	DISCONNECT SWITCH
DPW	DIRECTORATE OF PUBLIC WORKS
DWG	DRAWING
EL	ELEVATION
ELEC	ELECTRICAL
ELEV	ELEVATOR
EGB	ELECTRICAL GROUND BUS
EMGB	ELECTRICAL MAIN GROUND BUS
EMER	EMERGENCY
EQPT	EQUIPMENT
EWC	ELECTRIC WATER COOLER
EXIST	EXISTING
FA	FIRE ALARM
FACP	FIRE ALARM CONTROL PANEL
FDR	FEEDER
FIXT	FIXTURE
FLR	FLOOR
FLUOR	FLUORESCENT
FO	FIBER OPTIC
FT	FOOT
G	GROUND
EGB	ELECTRICAL GROUND BUS
GFI	GROUND FAULT CIRCUIT INTERRUPTER
H	HOT (UNSWITCHED)
HTR	HEATER
HVAC	HEATING, VENTILATION AND AIR CONDITIONING
IDS	INTRUSION DETECTION SYSTEM
JB	JUNCTION BOX
LC	LIGHTING CONTACTOR
LTG	LIGHTING
MCB	MAIN CIRCUIT BREAKER
MECH	MECHANICAL
MFR	MANUFACTURER
MH	MOUNTING HEIGHT
MLO	MAIN LUGS ONLY
MMF	MULTI MODE FIBER
MTD	MOUNTED
N	NEUTRAL
NC	NORMALLY CLOSED
NF	NON FUSED
NIC	NOT IN CONTRACT
NO	NORMALLY OPEN
NTS	NOT TO SCALE
OH	OVERHEAD
OL	OVERLOAD
PB	PULL BOX
PC	PERSONAL COMPUTER
PLAS	PLASTIC
PNL	PANEL
PR	PAIR
PWR	POWER
QTY	QUANTITY
RAF	RAISED ACCESS FLOOR
RECP	RECEPTACLE
REQD	REQUIRED
REX	REQUEST TO EXIT
RM	ROOM
RSC	RIGID STEEL CONDUIT
SCRT	SECURITY
SECT	SECTION
SN	SOLID NEUTRAL
SPD	SURGE PROTECTIVE DEVICE
SPEC	SPECIFICATION
ST	SHUNT TRIP
SURF	SURFACE
SW	SWITCH
SYM	SYMMETRICAL
SYS	SYSTEMS
TEL	TELEPHONE
TELCOM	TELECOMMUNICATIONS
TGB	TELECOM GROUND BUS
TMGB	TELECOM MAIN GROUND BUS
TYP	TYPICAL
UON	UNLESS OTHERWISE NOTED
UPS	UNINTERRUPTIBLE POWER SUPPLY
VD	VOLTAGE DROP
VFD	VARIABLE FREQUENCY DRIVE
VT	VOLTAGE TRANSFORMER
XFMR	TRANSFORMER
XFR	TRANSFER
Y	WYE CONNECTED

ELECTRICAL GENERAL NOTES

1. ALL SYMBOLS, ABBREVIATIONS AND GENERAL NOTES SHOWN ARE NOT NECESSARILY USED ON THIS PROJECT.
2. LIGHTING CONTROL ZONE DESIGNATIONS INDICATE WHICH DEVICES CONTROL WHICH GROUPS OF FIXTURES. WHERE LOCAL SWITCHES AND DIMMERS ARE SHOWN, OR WHERE NO CONTROL ZONE DESIGNATION IS INDICATED, LOCAL CONTROL DEVICES SHALL ONLY CONTROL FIXTURES IN THEIR RESPECTIVE ROOMS OR AREAS.
3. COORDINATE INSTALLATION OF LIGHTING FIXTURES WITH LOCATION OF EQUIPMENT, PIPING, AND DUCTWORK.
4. SEE EQUIPMENT CONNECTION SCHEDULE AND SINGLE LINE DIAGRAM FOR WIRE SIZES, CONDUIT SIZES, AND DEVICE RATINGS NOT SHOWN ON POWER PLANS.
5. EACH BRANCH CIRCUIT SHALL HAVE A DEDICATED NEUTRAL CONDUCTOR, UNLESS OTHERWISE NOTED.
6. MOUNTING HEIGHTS FOR CEILING MOUNTED FIXTURES OR DEVICES ARE TO BOTTOM OF FIXTURES OR DEVICES, UNLESS OTHERWISE NOTED.
7. MOUNTING HEIGHTS FOR WALL MOUNTED FIXTURES OR DEVICES ARE TO CENTER LINE OF OUTLET BOXES, UNLESS OTHERWISE NOTED.
8. FOR MOUNTING HEIGHTS AND EXACT LOCATION OF DEVICES, REFER TO ARCHITECTURAL ELEVATIONS. IF NOT DETAILED ON ARCHITECTURAL ELEVATIONS, THEN USE REQUIREMENTS AS FOLLOWS. MOUNTING HEIGHTS ARE ABOVE FINISHED FLOOR AND TO CENTERLINE OF DEVICE, UNLESS OTHERWISE NOTED:

WALL AND END MOUNTED EXIT SIGNS	96-INCHES
LIGHTING SWITCHES	48-INCHES
OCCUPANCY SENSOR SWITCH	48-INCHES
WALL MOUNTED OCCUPANCY SENSORS	96-INCHES
GENERAL PURPOSE RECEPTACLES	18-INCHES
COUNTER TOP RECEPTACLES (CT)	8-INCHES ABOVE COUNTER
FURNITURE JUNCTION BOXES	18-INCHES
MONITOR (M)	MOUNT AT CENTERLINE BEHIND EQUIPMENT
LED SINAGE (L)	MOUNT AT CENTERLINE BEHIND EQUIPMENT
CLOCK (C)	MOUNT AT CENTERLINE BEHIND EQUIPMENT
WALL PHONE RECEPTACLE	48-INCHES

9. UTILIZE TWO PIECE CONDUIT CLAMPS FOR CONDUIT RUNS ON SLAB TO MAINTAIN A MINIMUM 1/4-INCHES GAP BETWEEN CONDUIT AND CONCRETE.
10. CRITICAL EQUIPMENT ITEMS THAT ARE INHERENTLY INFLEXIBLE SHALL BE BRACED OR STIFFENED SO THAT THE LOWEST INTERNAL NATURAL FREQUENCY IS GREATER THAN TWO TIMES THE MOUNT SYSTEM NATURAL FREQUENCY.
11. ALL SUSPENDED ITEMS OF THE WORK EXCEEDING 14 KILOGRAMS IN WEIGHT SHALL BE ANCHORED TO RESIST A HORIZONTAL LOAD EQUAL TO 0.5 TIMES THE COMPONENT WEIGHT APPLIED SIMULTANEOUSLY WITH A VERTICAL DOWNWARD LOAD OF 1.5 TIMES THE COMPONENT WEIGHT IN ACCORDANCE WITH UFC-4-010-01. THIS REQUIREMENT DOES NOT PRECLUDE REQUIREMENTS FOR SEISMIC ANCHORAGE IN ACCORDANCE WITH ASCE-7-05 AND THE PROJECT SPECIFICATIONS.
12. USE COMMON GANG BOX WITH SEPARATION BETWEEN POWER AND TELECOM SECTIONS OR COMMON MOUNTING BRACKET SO THAT POWER AND TELECOM BOXES ARE NEATLY ALIGNED AND GROUPED WHERE POWER AND TELECOM OUTLETS ARE SHOWN ADJACENT TO EACH OTHER.
13. WHERE OUTLETS AND DEVICES ARE IN HALF-WALLS OR WALLS WITH TRANSOMS, ROUTE CONDUITS FROM BELOW WITHIN WALL.
14. STEPDOWN TRANSFORMERS MUST BE LABELED TO IDENTIFY THE LOCATION OF THE DISCONNECTING MEANS.
15. PROVIDE OFFSETS, TRANSITIONS, AND PULL BOXES AS NECESSARY TO ROUTE CONDUITS TO NOT INTERFERE WITH OTHER CONDUITS AND SERVICES ABOVE CEILING AND UNDER RAISED ACCESS FLOOR.
16. FURNISH LABOR, MATERIALS, EQUIPMENT AND SERVICES NECESSARY FOR THE PROPER AND COMPLETE INSTALLATION OF ALL ELECTRIC WORK SHOWN ON THE DRAWINGS AND AS HEREIN SPECIFIED.
17. ALL ITEMS NOT SHOWN ON THE DRAWINGS OR CALLED FOR IN THE SPECIFICATIONS, BUT WHICH ARE NECESSARY TO MAKE A COMPLETE ELECTRICAL INSTALLATION, SHALL BE FURNISHED AND INSTALLED AS PART OF THIS PROJECT.
18. CLEAN AT THE END OF EACH DAY ALL AREAS WORKED IN. EMPTY BOXES, RUBBISH, AND OTHER MATERIALS OF NO USE SHALL BE REMOVED FROM THE SITE.
19. COORDINATE WORK SO THAT IT DOES NOT INTERFERE WITH THE WORK OF OTHER TRADES. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO SEE THAT HIS WORK IS INSTALLED IN A TIMELY MANNER.
20. ALL CUTTING, PATCHING AND FIRE STOPPING FOR ELECTRICAL INSTALLATION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
21. ELECTRICAL ARRANGEMENTS AND LOCATIONS OF EQUIPMENT SHALL BE VERIFIED IN FIELD.
22. ALL WORK SHALL BE NEW, UNLESS NOTED OTHERWISE.
23. WHERE WIRING IS NOT IDENTIFIED, IT SHALL BE 2#12 (PHASE & NEUTRAL) CONDUCTORS AND 1#12 INSULATED GROUND IN 3/4 INCHES CONDUIT.
24. ALL WORK SHALL BE IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE (NEC) AND SHALL BE IN A NEAT PROFESSIONAL WORKMAN LIKE MANNER.
25. FURNISH AND INSTALL TESTED AND LISTED FIRESTOPPING SYSTEMS, COMBINATION OF MATERIALS, OR DEVICES TO FORM AN EFFECTIVE BARRIER AGAINST THE SPREAD OF FLAME, SMOKE AND GASES, AND MAINTAIN THE INTEGRITY OF FIRE RESISTANCE RATED WALLS, PARTITIONS, FLOORS, AND CEILING-FLOOR ASSEMBLIES, INCLUDING THROUGH-PENETRATIONS BY CONDUITS. FIRESTOPPING MATERIALS SHALL PROVIDE FIRE RESISTANCE RATING IN ACCORDANCE WITH ASTM E814 OR UL 1479.
26. PROVIDE LABELS FOR ALL OUTLETS, INDICATING SOURCE PANELBOARD AND CIRCUIT NUMBER.
27. PROVIDE EQUIPMENT PAD FOR FLOOR MOUNTED EQUIPMENT. REFER TO STRUCTURAL DRAWINGS FOR EQUIPMENT PAD DETAILS.
28. THE ELECTRICAL DISTRIBUTION SYSTEM HAS BEEN PRIVATIZED THROUGH THE ARMY'S UTILITY PRIVATIZATION (UP) INITIATIVE. THE ELECTRICAL SYSTEM OWNER (SO) IS CITY LIGHT AND POWER AWP, LLC (CLP). ALL WORK IMPACTING THE UTILITY ELECTRICAL DISTRIBUTION SYSTEM MUST BE COORDINATED WITH CLP. REFER TO CLP'S SERVICE CONNECTION MANUAL FOR REQUIREMENTS.

US Army Corps of Engineers ®

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US ARMY CORPS OF ENGINEERS
LINCOLN HALL
WEST POINT, NEW YORK

JACOBS / EWING COLE *A Joint Venture*

BUILDING S 605/607 RENOVATION - LINCOLN HALL

GENERAL NOTES, AND ABBREVIATIONS

SHEET ID

E-001

REVISED RTA SUBMISSION 3/1/2023

ELECTRICAL SYMBOLS

LIGHTING FIXTURES

A1b — SUBSCRIPTS: A1b = TYPE A, CIRCUIT 1, CONTROL ZONE b

(E) — INDICATES EMERGENCY LIGHT FIXTURE

RECESSED, CEILING OR PENDANT FIXTURE

WALL MOUNTED FIXTURE

EMERGENCY FIXTURE

WALL WASHER

LINEAR WALL WASHER

RECESSED, CEILING OR PENDANT HID WITH QUARTZ RE-STRIKE

SURFACE OR PENDANT STRIP FIXTURE

EMERGENCY FIXTURE

RECESSED OR SURFACE 2 X 2 FIXTURE

RECESSED OR SURFACE 2 X 2 EMERGENCY FIXTURE

RECESSED OR SURFACE 2 X 4 FIXTURE

RECESSED OR SURFACE 1 X 4 FIXTURE

WALL MOUNTED FIXTURE

EMERGENCY FIXTURE

PENDANT LINEAR FIXTURE

EMERGENCY FIXTURE

BATTERY PACK WITH HEADS

FLOODLIGHT

SPOTLIGHT, ARROW INDICATES DIRECTION OF AIM

ILLUMINATED BOLLARD

ROADWAY OR PARKING LOT STANDARD

POST TOP WALKWAY OR PARKING LOT STANDARD

BUILDING MOUNTED WALLPACK

LIGHTING TRACK WITH FIXTURES

DOCK LIGHT

STEP OR AISLE LIGHT

CEILING OR PENDANT MOUNTED EXIT SIGN

WALL MOUNTED EXIT SIGN

SHADING INDICATES ILLUMINATED FACE OF EXIT SIGN
ARROW INDICATES EXIT SIGN DIRECTIONAL ARROW

GROUNDING AND LIGHTNING PROTECTION

G — BURIED GROUNDING ELECTRODE

LP — LIGHTNING PROTECTION CONDUCTOR

LP — LIGHTNING PROTECTION CONDUCTOR, CHANGE IN ELEVATION

WELDED CONNECTION

BOLTED CONNECTION

GROUND ROD WITH WELDED CONNECTION

LIGHTNING PROTECTION AIR TERMINAL (LIGHTNING ROD)

GROUND ROD WITH TEST WELL

ELECTRICAL GROUND BUS (EGB); ELECTRICAL MAIN GROUND BUS (EMGB)

GROUND

RECEPTACLES

1b — SUBSCRIPTS NEXT TO RECEPTACLES, WHERE APPLICABLE: 1b = CIRCUIT 1, CONTROL ZONE b. POWER, P=PROJECTOR,
GFI = GROUND FAULT INTERRUPTER, WP = WEATHERPROOF WHILE IN USE COVER,
CT = COUNTER TOP HEIGHT, S = SPLIT WIRED SWITCHED, F = FLUSH FLOOR,
SM = SURFACE MOUNT FLOOR, M = MONITOR, C = CONTROLLED, L = LED SIGNAGE,
W = WALL PHONE RECEPTACLE, "+" = ABOVE COUNTER TOP RECEPTACLE

DUPLEX RECEPTACLE

DUPLEX RECEPTACLE ABOVE COUNTER. MOUNT THE RECEPTACLE 6" ABOVE FINISHED COUNTER

SINGLE RECEPTACLE

QUADRUPLEX RECEPTACLE

SPECIAL RECEPTACLE, NEMA L5-50R

220V, 16A, SCHUKO TYPE F, 2 GANG SOCKET OUTLET

DUPLEX GFCI TYPE RECEPTACLE

DUPLEX CEILING RECEPTACLE

QUADRUPLEX CEILING RECEPTACLE

A — SPECIAL PURPOSE RECEPTACLE, 120V, 20A, 1P, 3W, NEMA L5-20R MOUNTED TO CABLE TRAY

B — SPECIAL PURPOSE RECEPTACLE, 208V, 20A, 2P, 3W, NEMA L6-20R MOUNTED TO CABLE TRAY

C — SPECIAL PURPOSE RECEPTACLE, 120V, 20A, 1P, 3W, NEMA L5-30R MOUNTED TO CABLE TRAY

FLUSH POKE-THROUGH WITH QUADRUPLEX OR DUPLEX POWER RECEPTACLE,
20A, 125V AC. LOCATE BASED ON ACTUAL FURNITURE LAYOUTS. POKE-THROUGH
MUST ACCOMODATE COMBINATION OF POWER, AND TELECOM DEVICES AT
LOCATIONS SHOWN. COORDINATE WITH TELECOM DRAWINGS FOR REQUIRED
TELECOM DEVICES.

JUNCTION BOX WITH FLEXIBLE WHIP TO FURNITURE BASE POWER FEED

DUPLEX GFCI RECEPTACLE ABOVE COUNTER, MOUNT THE RECEPTACLE 6" ABOVE FINISHED COUNTER

AUTOMATICALLY SWITCHED RECEPTACLE, RECEPTACLE CONTROLLED BY ROOM OCCUPANCY SENSOR, OR VACANCY SENSOR

MECHANICAL EQUIPMENT

M — MOTOR

DISTRIBUTION EQUIPMENT

208/120V PANELBOARD

EMERGENCY LIGHTING PANELBOARD

480/277V PANELBOARD

INV-1 — EMERGENCY LIGHTING INVERTER

SWITCHBOARD

TRANSFORMER

SWITCHES AND CONTROLS

S — MANUAL CONTROL STATION FOR LIGHTS. REFER TO LIGHTING CONTROL ROOM SCHEDULE FOR REQUIRED CONTROL FEATURES FOR EACH ROOM.

S 3b — SUBSCRIPTS: 3b = TYPE 3, CONTROL ZONE b
3 = 3-WAY, 2 = DOUBLE POLE, 4 = 4 WAY,
D = LOW VOLTAGE DIMMER, K = KEY OPERATED, XP = EXPLOSION PROOF, T = TIMER OPERATED,
L = LOW VOLTAGE, OC = OCCUPANCY SENSOR, F = FUSED, P = PILOT LIGHT, M = MANUAL MOTOR STARTER

O — OCCUPANCY SENSOR, CEILING MOUNTED

V — VACANCY SENSOR, CEILING MOUNTED

TIME CLOCK

PUSHBUTTON OR CONTROL STATION

PE — PHOTOELECTRIC RELAY

CONTACTOR

MOTOR STARTER

COMBINATION MOTOR STARTER AND DISCONNECT SWITCH

COMBINATION MOTOR STARTER AND MOTOR CIRCUIT PROTECTOR

FUSED DISCONNECT SWITCH

NON-FUSED DISCONNECT SWITCH

VFD — VARIABLE FREQUENCY DRIVE

PWCP — PRE-WIRED CONTROL PANEL

RACEWAYS AND WIRES

CONDUIT OR CABLE (RUN AS INDICATED)

CONDUIT OR CABLE BELOW RAISED FLOOR

CONDUIT OR CABLE BELOW SLAB, IN SLAB OR UNDERGROUND

CONDUIT OR CABLE TURNING UP

CONDUIT OR CABLE TURNING DOWN

CONDUIT CAPPED

B — OUTLET BOX WITH BLANK COVER

J — JUNCTION BOX CEILING MOUNTED

J — JUNCTION BOX WALL MOUNTED

J — JUNCTION BOX FLOOR MOUNTED

PB — PULL BOX

HOMERUN, N4-PNL-LA5-1A = PANEL DESTINATION, 2,4,6 = CIRCUITS
N4-PNL-LA5-1A:2,4,6

ONE-LINE DIAGRAMS

(XX) — FUSED CUTOUT

TRANSFORMER

CURRENT TRANSFORMER

VOLTAGE TRANSFORMER

PANELBOARD

30 / (20) — DISCONNECT SWITCH, 30 = AMPERE RATING
FUSE, (20) = AMPERE RATING

20 — MOLDED CASE CIRCUIT BREAKER, 20 = TRIP RATING

20 — ENCLOSED MOLDED CASE CIRCUIT BREAKER, 20 = TRIP RATING

600 — DRAWOUT CIRCUIT BREAKER, 600 = TRIP RATING

ST — SHUNT TRIP

G — GROUND FAULT RELAY

GFP — GROUND FAULT PROTECTION

SPD — SURGE PROTECTIVE DEVICE

AUTOMATIC OR MANUAL TRANSFER SWITCH

LOAD-OPERABLE MANUAL SELECTOR SWITCH

LIGHTNING ARRESTER

M — ELECTRICAL METER: M = UTILITY METER
V = VOLT METER
W = WATT METER

30 / (20) / 0 — PLUG-IN DISCONNECT SWITCH, FUSED 30 = SWITCH AMPERE
RATING (20) = FUSE AMPERE RATING
MOTOR STARTER, SINGLE SPEED 0 = STARTER SIZE

ALT — ALTERNATING MOTOR CONTROLLER

K — KIRK KEY INTERLOCK

BATTERY

US Army Corps of Engineers ®

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US ARMY CORPS OF ENGINEERS
LINCOLN HALL
WEST POINT, NEW YORK

JACOBS / EWING COLE — A Joint Venture

BUILDINGS 605/607 RENOVATION - LINCOLN HALL

SYMBOLS

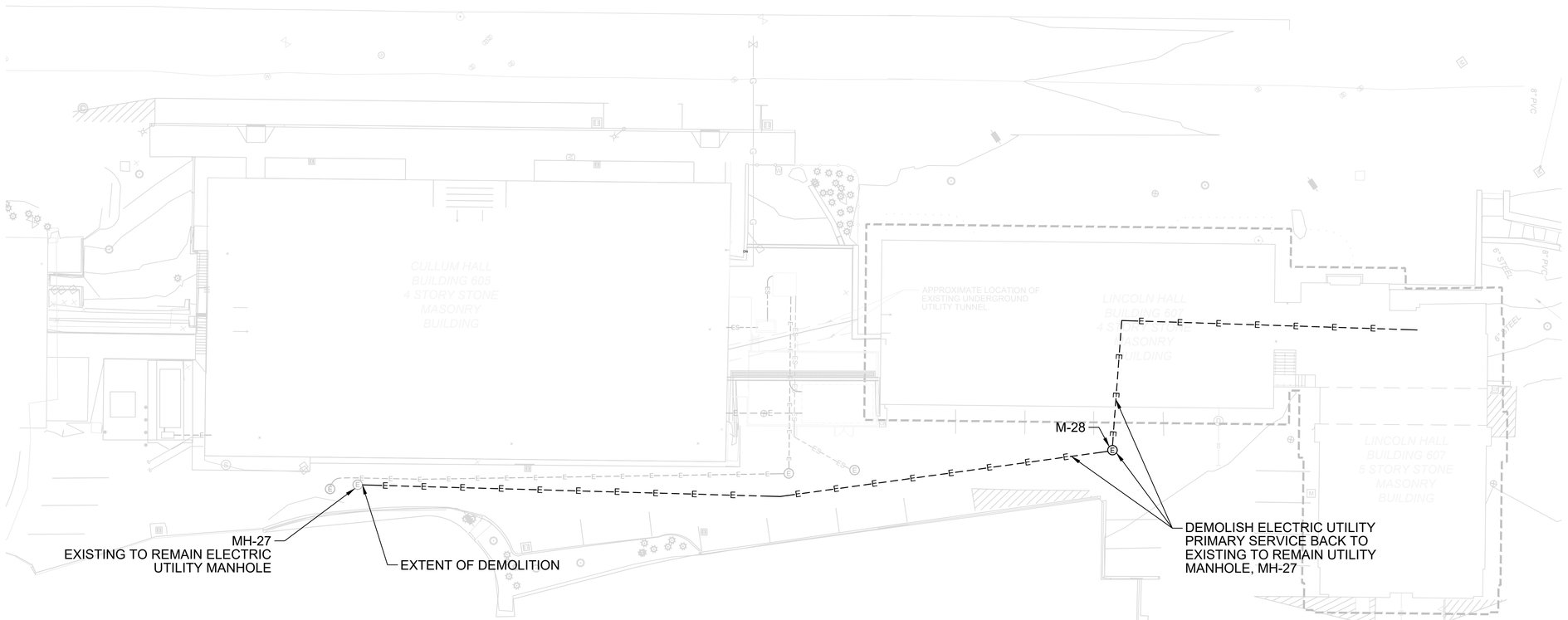
SHEET ID

E-002

REVISED RTA SUBMISSION 3/1/2023

GENERAL SHEET NOTES

1. COORDINATE ALL PRIMARY DEMOLITION WORK WITH CLP.
2. CITY LIGHT AND POWER (CLP) WILL BE RESPONSIBLE FOR DISCONNECTING AND REMOVING THE EXISTING PRIMARY CABLE FROM LINCOLN HALL TO MANHOLE MH-27.
3. CONTRACTOR WILL BE RESPONSIBLE FOR DEMOLISHING CONDUITS, DUCTBANK, AND MANHOLES BETWEEN LINCOLN HALL AND MH-27. REFER TO CIVIL PLANS FOR EXTENT OF DUCTBANK DEMOLITION.
4. CONTRACTOR WILL BE RESPONSIBLE FOR DEMOLISHING ALL SERVICE EQUIPMENT FROM LINCOLN HALL. COORDINATE WITH CLP TO DE-ENERGIZE PRIMARY LINE.
5. UTILITY SERVICE CONDUITS THAT ARE RUN UNDER THE FOOTPRINT OF THE BUILDING, THROUGH UNEXCAVATED AREA SHALL BE ABANDONED IN PLACE. ABANDONED CONDUCTORS SHALL BE TAGGED AND PROPERLY IDENTIFIED AS DE-ENERGIZED.
6. COORDINATE WORK WITH CIVIL DEMOLITION PLANS.



A1 SITE DEMOLITION PLAN
SCALE: 1"=20'

N

0 30' 60'

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LINCOLN HALL
WEST POINT, NEW YORK

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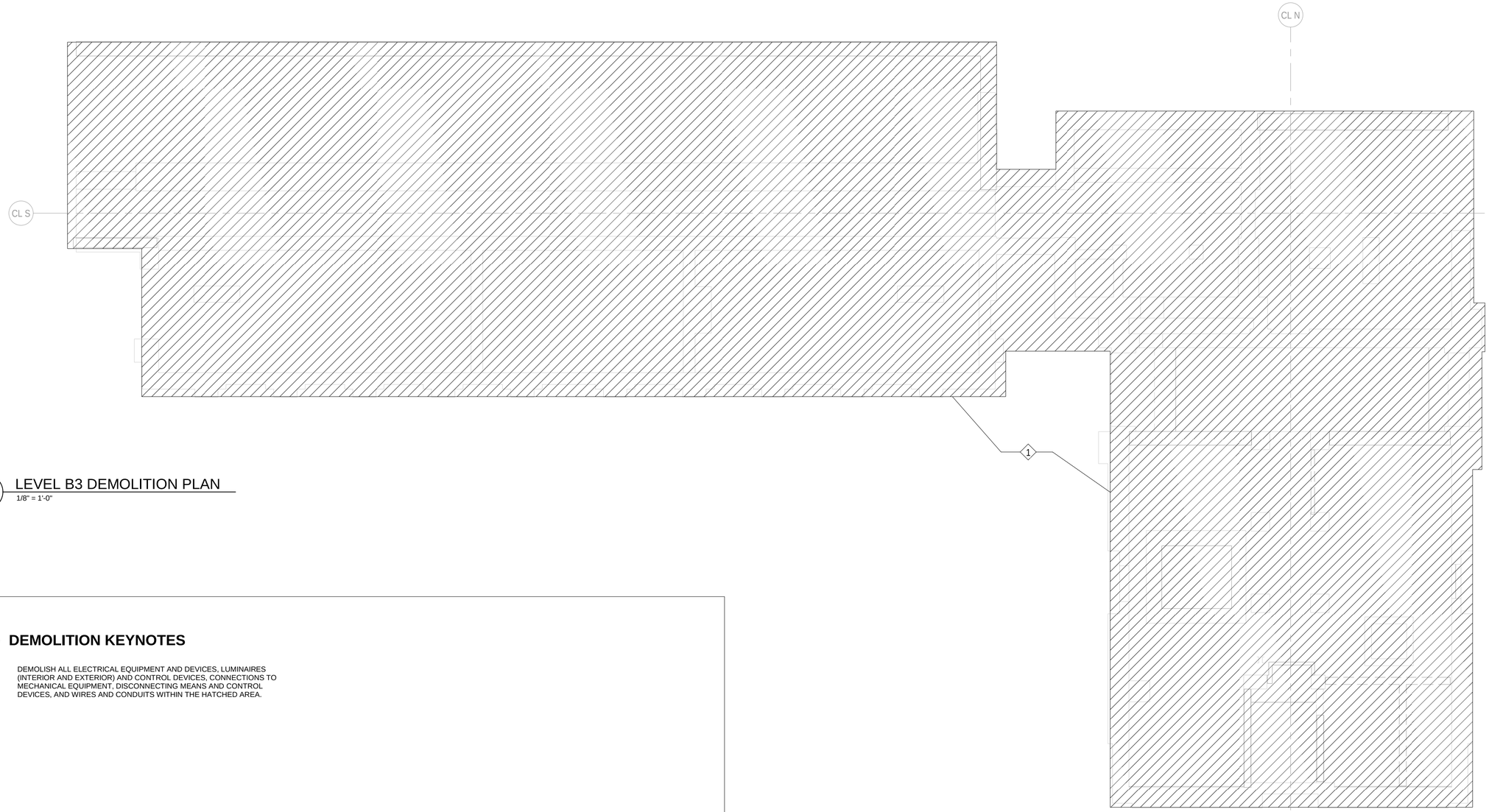
BUILDINGS 605/607 RENOVATION - LINCOLN HALL

SITE DEMOLITION PLAN

SHEET ID

ED100

REVISED RTA SUBMISSION 3/1/2023



C1 LEVEL B3 DEMOLITION PLAN

1/8" = 1'-0"

DEMOLITION KEYNOTES

1. DEMOLISH ALL ELECTRICAL EQUIPMENT AND DEVICES, LUMINAIRES (INTERIOR AND EXTERIOR) AND CONTROL DEVICES, CONNECTIONS TO MECHANICAL EQUIPMENT, DISCONNECTING MEANS AND CONTROL DEVICES, AND WIRES AND CONDUITS WITHIN THE HATCHED AREA.

GENERAL NOTES

1. REFER TO DRAWING SHEETS E-001, AND E-002 FOR ELECTRICAL GENERAL NOTES, ABBREVIATIONS, AND SYMBOLS.
2. REFER TO DRAWING SHEET ESD100 FOR ELECTRICAL SITE DEMOLITION PLAN.
3. REFER TO DRAWING SHEET ED601 FOR ELECTRICAL DEMOLITION RISER DIAGRAM.

0 4' 8' 16'

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

N

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SUBMITTED BY:

ISSUE DATE: 01 MARCH 2023
SOLICITATION NO.: W912DS-19-R-0014
CONTRACT NO.: W912DS-19-C-0031-L
FILE NUMBER:

SIZE: ANSI D
FILE NAME:

US ARMY CORPS OF ENGINEERS
LINCOLN HALL
WEST POINT, NEW YORK

JACOBS / EWING COLE *A Joint Venture*

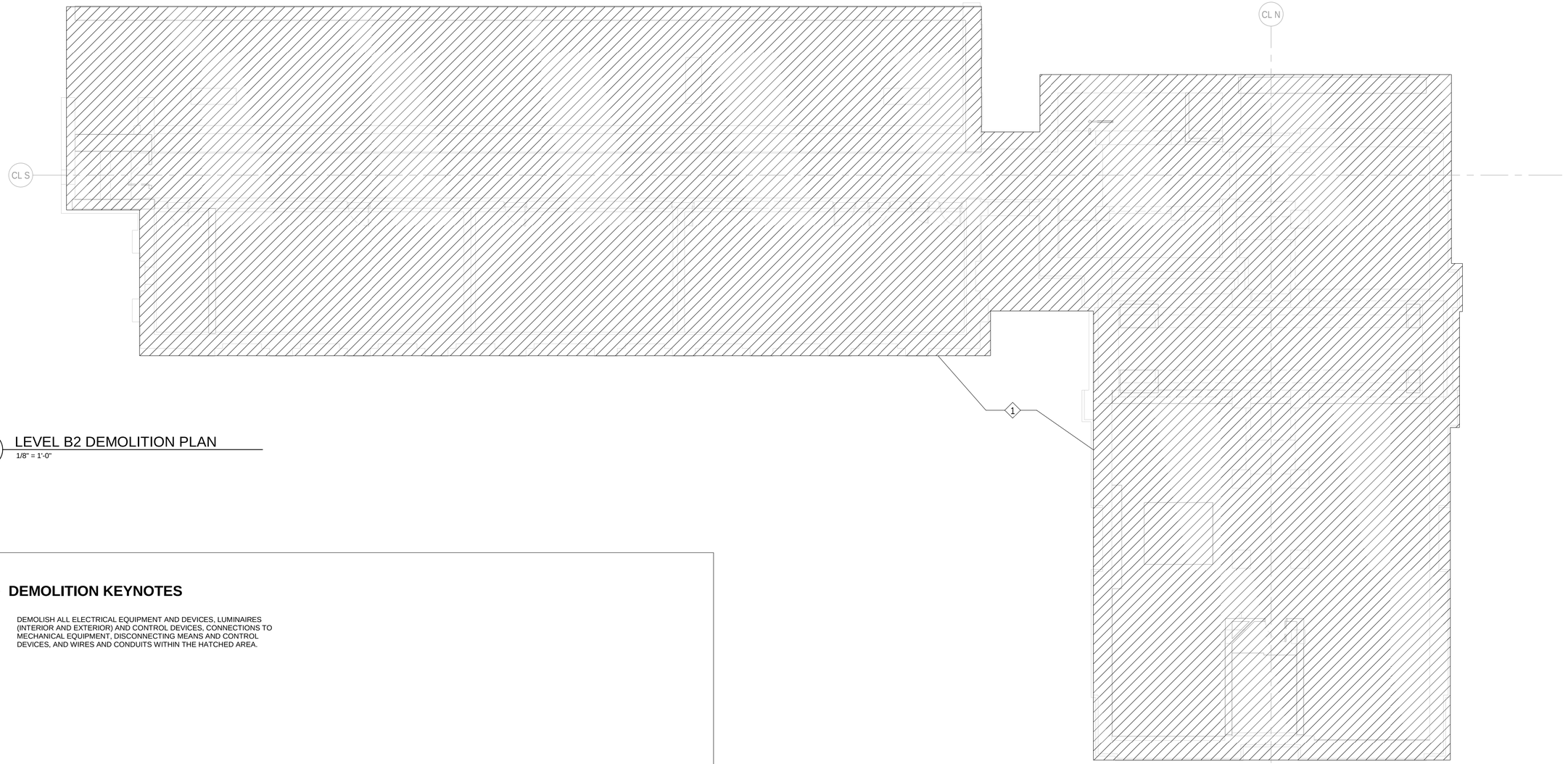
BUILDINGS 605/607 RENOVATION - LINCOLN HALL

LEVEL B3 DEMOLITION PLAN

SHEET ID

ED101

REVISED RTA SUBMISSION 3/1/2023



C1 LEVEL B2 DEMOLITION PLAN

1/8" = 1'-0"

DEMOLITION KEYNOTES

1. DEMOLISH ALL ELECTRICAL EQUIPMENT AND DEVICES, LUMINAIRES (INTERIOR AND EXTERIOR) AND CONTROL DEVICES, CONNECTIONS TO MECHANICAL EQUIPMENT, DISCONNECTING MEANS AND CONTROL DEVICES, AND WIRES AND CONDUITS WITHIN THE HATCHED AREA.

GENERAL NOTES

1. REFER TO DRAWING SHEETS E-001, AND E-002 FOR ELECTRICAL GENERAL NOTES, ABBREVIATIONS, AND SYMBOLS.
2. REFER TO DRAWING SHEET ESD100 FOR ELECTRICAL SITE DEMOLITION PLAN.
3. REFER TO DRAWING SHEET ED601 FOR ELECTRICAL DEMOLITION RISER DIAGRAM.

0 4' 8' 16'

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

N

US Army Corps of Engineers ®

MARK	DESCRIPTION	DATE

DESIGNED BY: D. PAXTON
DRAWN BY: D. PAXTON
CHECKED BY: Y. SOLOMON
SUBMITTED BY:

ISSUE DATE: 01 MARCH 2023
SOLICITATION NO.: W912DS-19-R-0014
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LINCOLN HALL
WEST POINT, NEW YORK

JACOBS / EWING COLE *A Joint Venture*

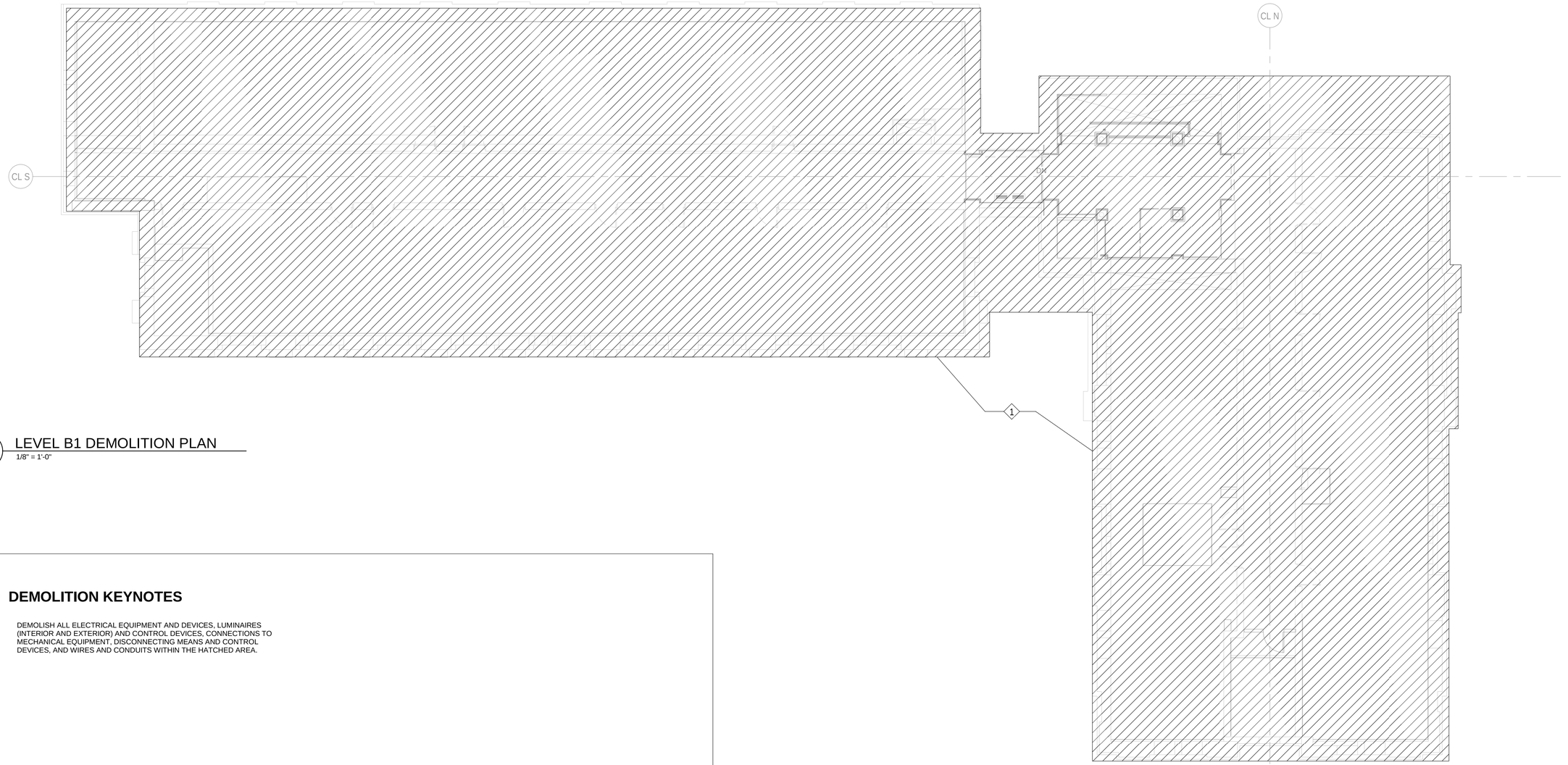
BUILDINGS 605/607 RENOVATION - LINCOLN HALL

LEVEL B2 DEMOLITION PLAN

SHEET ID

ED102

REVISED RTA SUBMISSION 3/1/2023



C1 LEVEL B1 DEMOLITION PLAN

1/8" = 1'-0"

DEMOLITION KEYNOTES

1. DEMOLISH ALL ELECTRICAL EQUIPMENT AND DEVICES, LUMINAIRES (INTERIOR AND EXTERIOR) AND CONTROL DEVICES, CONNECTIONS TO MECHANICAL EQUIPMENT, DISCONNECTING MEANS AND CONTROL DEVICES, AND WIRES AND CONDUITS WITHIN THE HATCHED AREA.

GENERAL NOTES

1. REFER TO DRAWING SHEETS E-001, AND E-002 FOR ELECTRICAL GENERAL NOTES, ABBREVIATIONS, AND SYMBOLS.
2. REFER TO DRAWING SHEET ESD100 FOR ELECTRICAL SITE DEMOLITION PLAN.
3. REFER TO DRAWING SHEET ED601 FOR ELECTRICAL DEMOLITION RISER DIAGRAM.

0 4' 8' 16'

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

N

US Army Corps of Engineers ®

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LINCOLN HALL
WEST POINT, NEW YORK

JACOBS / EWING COLE *A Joint Venture*

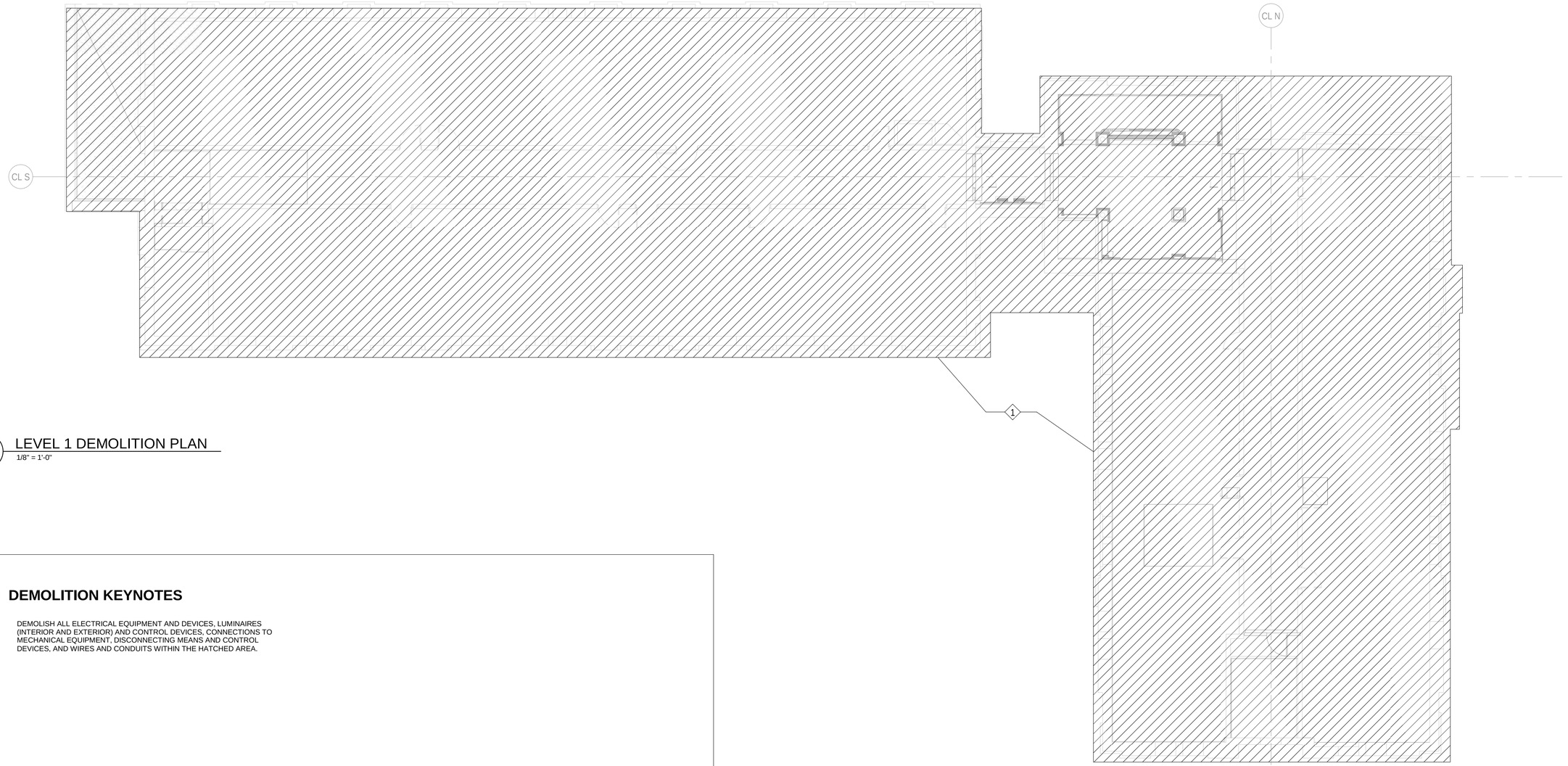
BUILDINGS 605/607 RENOVATION - LINCOLN HALL

LEVEL B1 DEMOLITION PLAN

SHEET ID

ED103

REVISED RTA SUBMISSION 3/1/2023



C1 LEVEL 1 DEMOLITION PLAN
1/8" = 1'-0"

DEMOLITION KEYNOTES

1. DEMOLISH ALL ELECTRICAL EQUIPMENT AND DEVICES, LUMINAIRES (INTERIOR AND EXTERIOR) AND CONTROL DEVICES, CONNECTIONS TO MECHANICAL EQUIPMENT, DISCONNECTING MEANS AND CONTROL DEVICES, AND WIRES AND CONDUITS WITHIN THE HATCHED AREA.

GENERAL NOTES

1. REFER TO DRAWING SHEETS E-001, AND E-002 FOR ELECTRICAL GENERAL NOTES, ABBREVIATIONS, AND SYMBOLS.
2. REFER TO DRAWING SHEET ESD100 FOR ELECTRICAL SITE DEMOLITION PLAN.
3. REFER TO DRAWING SHEET ED601 FOR ELECTRICAL DEMOLITION RISER DIAGRAM.

0 4' 8' 16'
SCALE: 1/8"=1'-0"

N

US Army Corps of Engineers ®

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LINCOLN HALL
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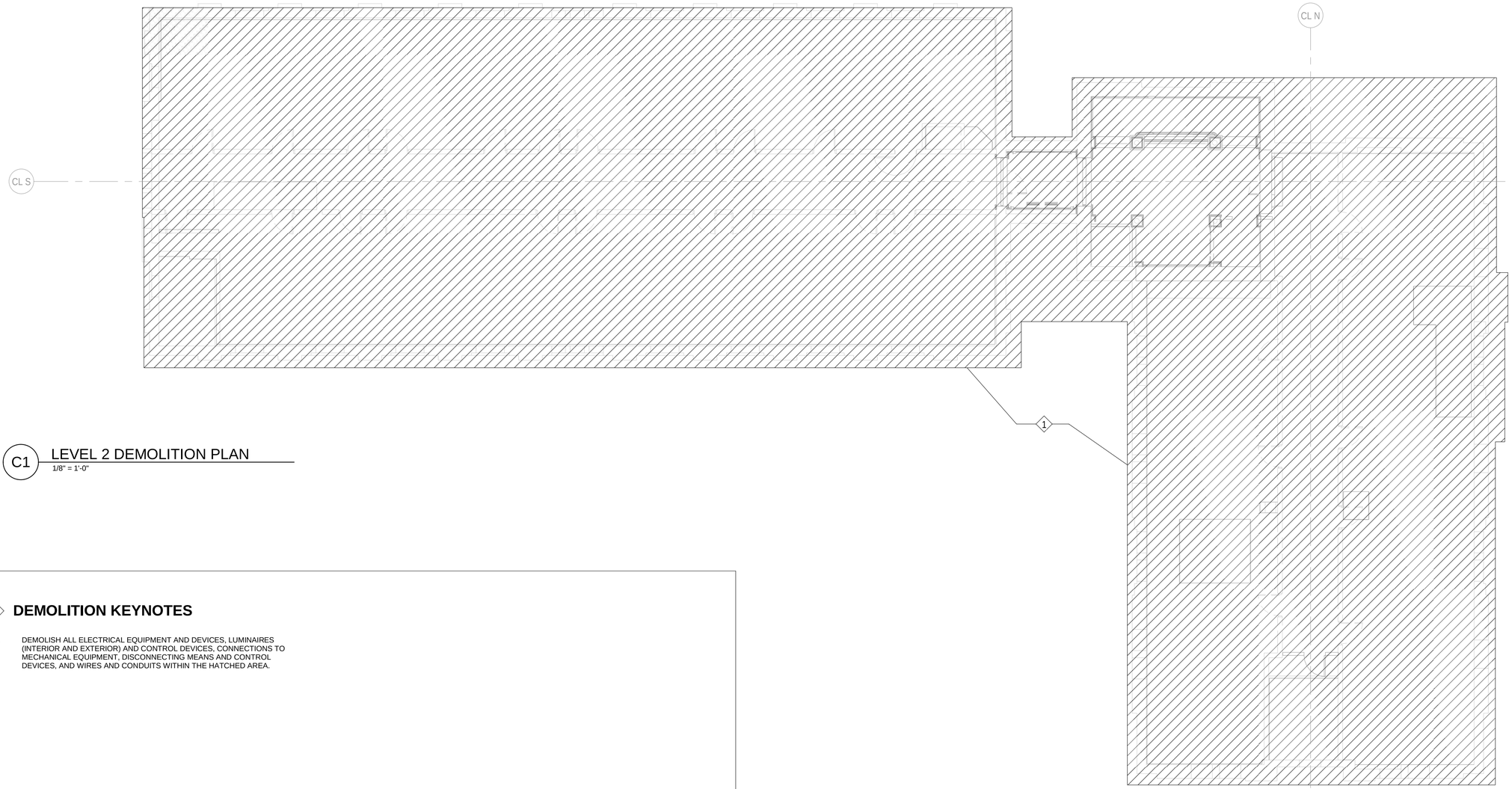
JACOBS / EWING COLE *A Joint Venture*

BUILDINGS 605/607 RENOVATION - LINCOLN HALL

LEVEL 1 DEMOLITION PLAN

SHEET ID
ED104

REVISED RTA SUBMISSION 3/1/2023



C1 LEVEL 2 DEMOLITION PLAN
1/8" = 1'-0"

DEMOLITION KEYNOTES

1. DEMOLISH ALL ELECTRICAL EQUIPMENT AND DEVICES, LUMINAIRES (INTERIOR AND EXTERIOR) AND CONTROL DEVICES, CONNECTIONS TO MECHANICAL EQUIPMENT, DISCONNECTING MEANS AND CONTROL DEVICES, AND WIRES AND CONDUITS WITHIN THE HATCHED AREA.

GENERAL NOTES

1. REFER TO DRAWING SHEETS E-001, AND E-002 FOR ELECTRICAL GENERAL NOTES, ABBREVIATIONS, AND SYMBOLS.
2. REFER TO DRAWING SHEET ESD100 FOR ELECTRICAL SITE DEMOLITION PLAN.
3. REFER TO DRAWING SHEET ED601 FOR ELECTRICAL DEMOLITION RISER DIAGRAM.

0 4' 8' 16'
SCALE: 1/8"=1'-0"

N

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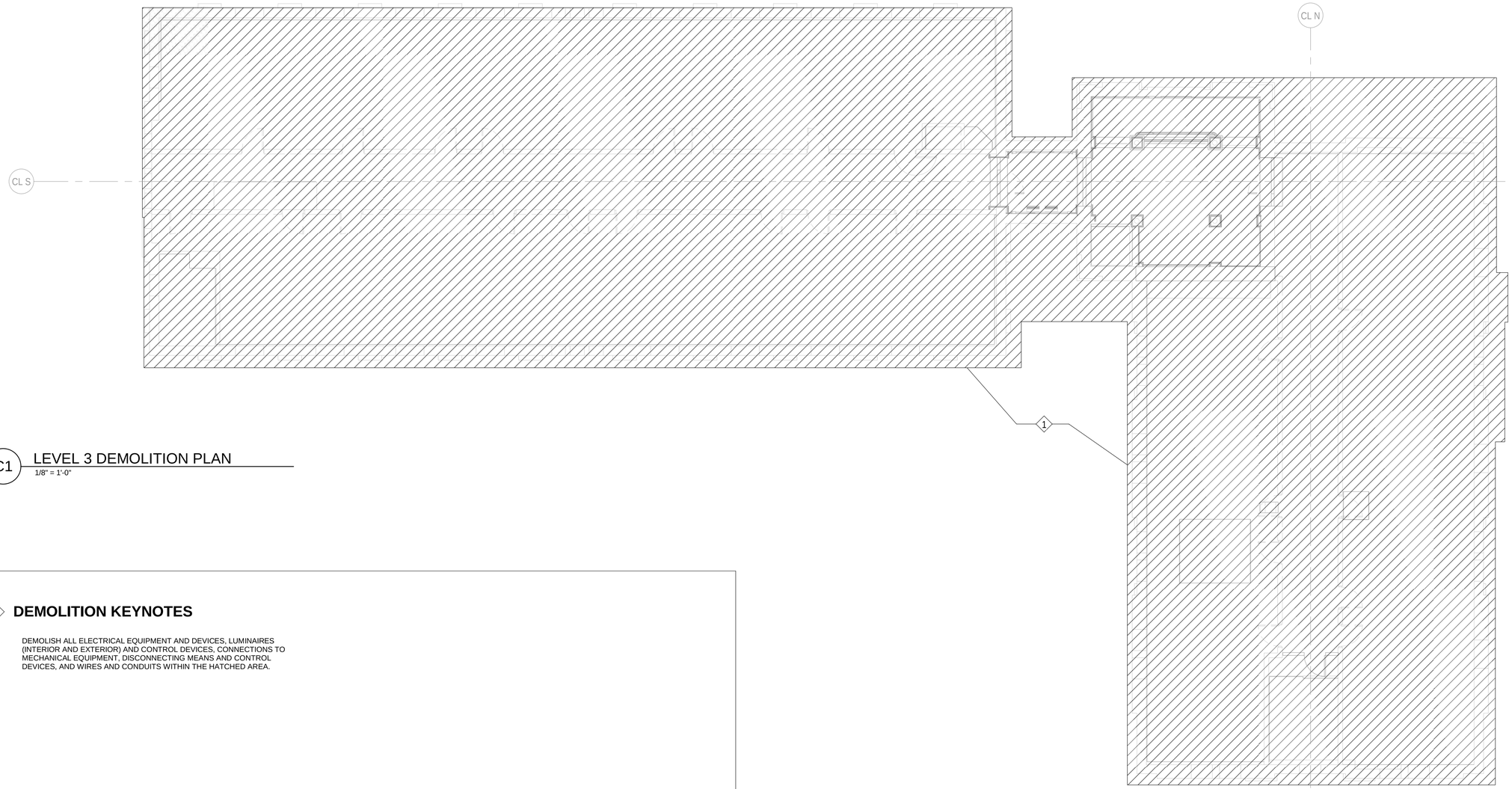
BUILDINGS 605/607 RENOVATION - LINCOLN HALL

LEVEL 2 DEMOLITION PLAN

SHEET ID

ED105

REVISED RTA SUBMISSION 3/1/2023



C1 LEVEL 3 DEMOLITION PLAN

1/8" = 1'-0"

DEMOLITION KEYNOTES

1. DEMOLISH ALL ELECTRICAL EQUIPMENT AND DEVICES, LUMINAIRES (INTERIOR AND EXTERIOR) AND CONTROL DEVICES, CONNECTIONS TO MECHANICAL EQUIPMENT, DISCONNECTING MEANS AND CONTROL DEVICES, AND WIRES AND CONDUITS WITHIN THE HATCHED AREA.

GENERAL NOTES

1. REFER TO DRAWING SHEETS E-001, AND E-002 FOR ELECTRICAL GENERAL NOTES, ABBREVIATIONS, AND SYMBOLS.
2. REFER TO DRAWING SHEET ESD100 FOR ELECTRICAL SITE DEMOLITION PLAN.
3. REFER TO DRAWING SHEET ED601 FOR ELECTRICAL DEMOLITION RISER DIAGRAM.

0 4' 8' 16'

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

N

US Army Corps of Engineers ®

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SUBMITTED BY:

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JACOBS / EWING COLE *A Joint Venture*

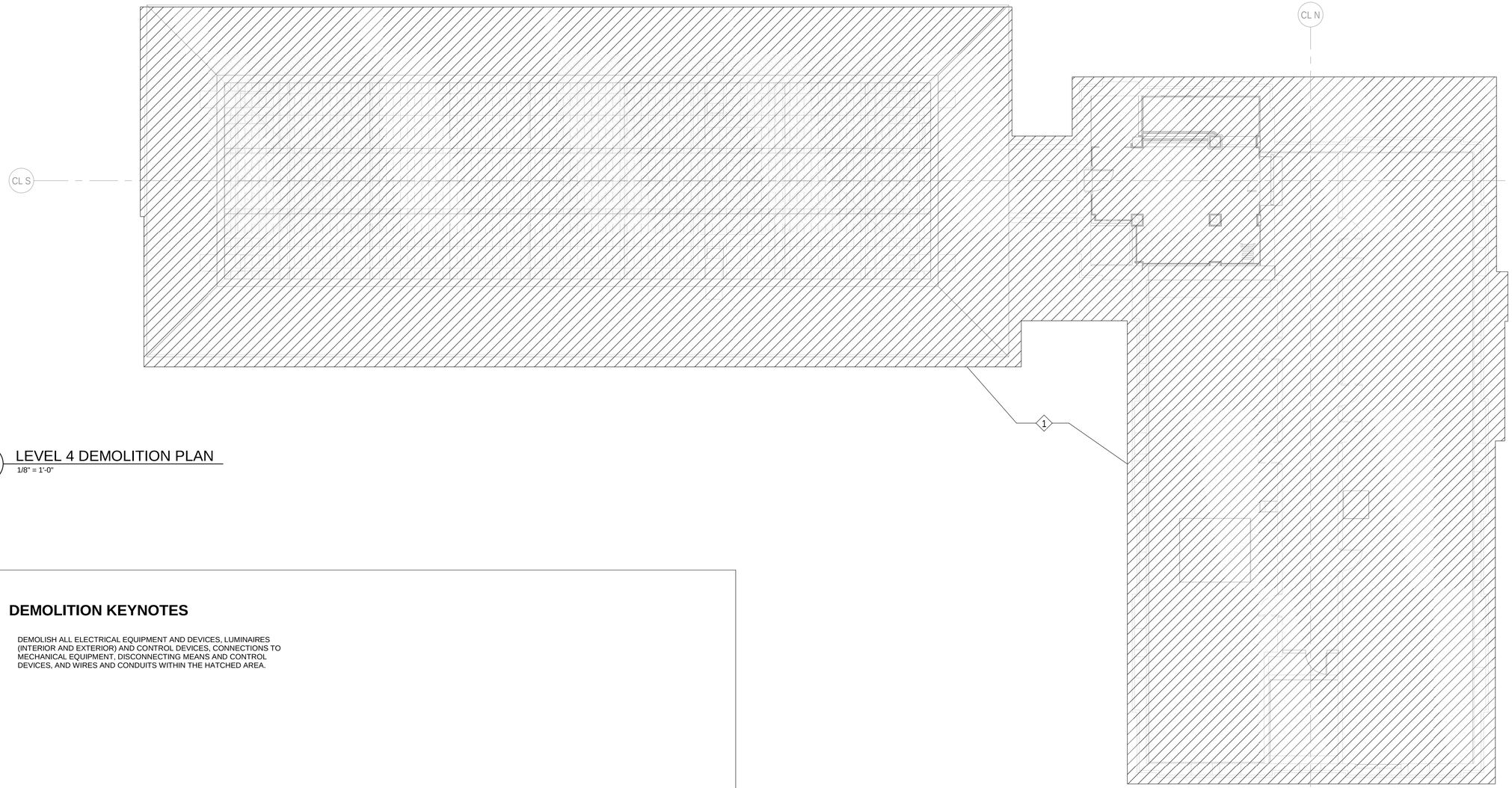
BUILDINGS 605/607 RENOVATION - LINCOLN HALL

LEVEL 3 DEMOLITION PLAN

SHEET ID

ED106

REVISED RTA SUBMISSION 3/1/2023



C1 LEVEL 4 DEMOLITION PLAN

1/8" = 1'-0"

DEMOLITION KEYNOTES

1. DEMOLISH ALL ELECTRICAL EQUIPMENT AND DEVICES, LUMINAIRES (INTERIOR AND EXTERIOR) AND CONTROL DEVICES, CONNECTIONS TO MECHANICAL EQUIPMENT, DISCONNECTING MEANS AND CONTROL DEVICES, AND WIRES AND CONDUITS WITHIN THE HATCHED AREA.

GENERAL NOTES

1. REFER TO DRAWING SHEETS E-001, AND E-002 FOR ELECTRICAL GENERAL NOTES, ABBREVIATIONS, AND SYMBOLS.
2. REFER TO DRAWING SHEET ESD100 FOR ELECTRICAL SITE DEMOLITION PLAN.
3. REFER TO DRAWING SHEET ED601 FOR ELECTRICAL DEMOLITION RISER DIAGRAM.

0 4' 8' 16'

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

N

US Army Corps of Engineers ®

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CHECKED BY: Y. SOLOMON
SUBMITTED BY:

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JACOBS / EWING COLE *A Joint Venture*

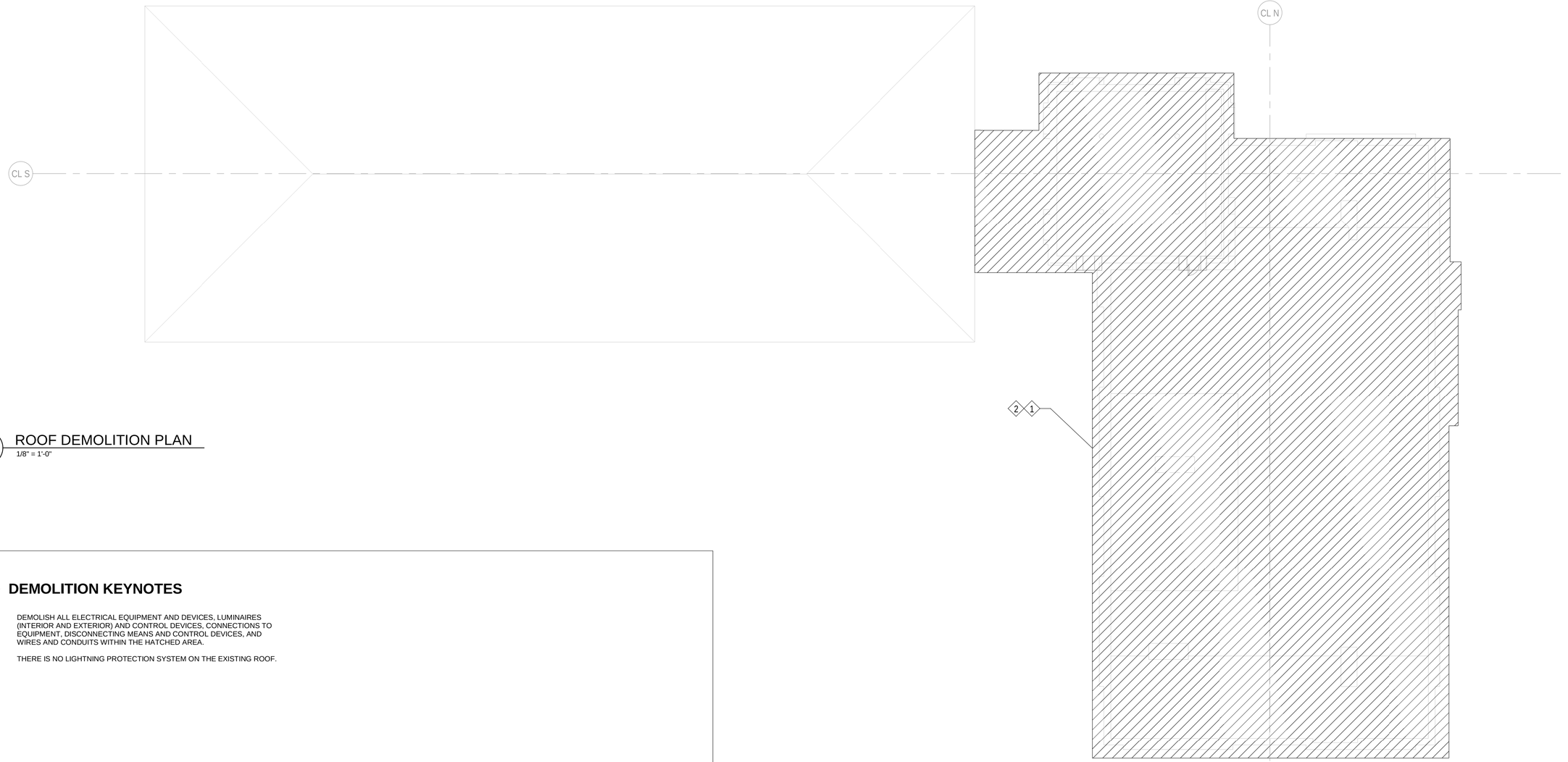
BUILDINGS 605/607 RENOVATION - LINCOLN HALL

LEVEL 4 DEMOLITION PLAN

SHEET ID

ED107

REVISED RTA SUBMISSION 3/1/2023



C1 ROOF DEMOLITION PLAN

1/8" = 1'-0"

DEMOLITION KEYNOTES

1. DEMOLISH ALL ELECTRICAL EQUIPMENT AND DEVICES, LUMINAIRES (INTERIOR AND EXTERIOR) AND CONTROL DEVICES, CONNECTIONS TO EQUIPMENT, DISCONNECTING MEANS AND CONTROL DEVICES, AND WIRES AND CONDUITS WITHIN THE HATCHED AREA.
2. THERE IS NO LIGHTNING PROTECTION SYSTEM ON THE EXISTING ROOF.

GENERAL NOTES

1. REFER TO DRAWING SHEETS E-001, AND E-002 FOR ELECTRICAL GENERAL NOTES, ABBREVIATIONS, AND SYMBOLS.
2. REFER TO DRAWING SHEET ESD100 FOR ELECTRICAL SITE DEMOLITION PLAN.
3. REFER TO DRAWING SHEET ED601 FOR ELECTRICAL DEMOLITION RISER DIAGRAM.

0 4' 8' 16'

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

N

US Army Corps of Engineers ®

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WEST POINT, NEW YORK

JACOBS / EWING COLE *A Joint Venture*

BUILDINGS 605/607 RENOVATION - LINCOLN HALL

ROOF DEMOLITION PLAN

SHEET ID

ED108

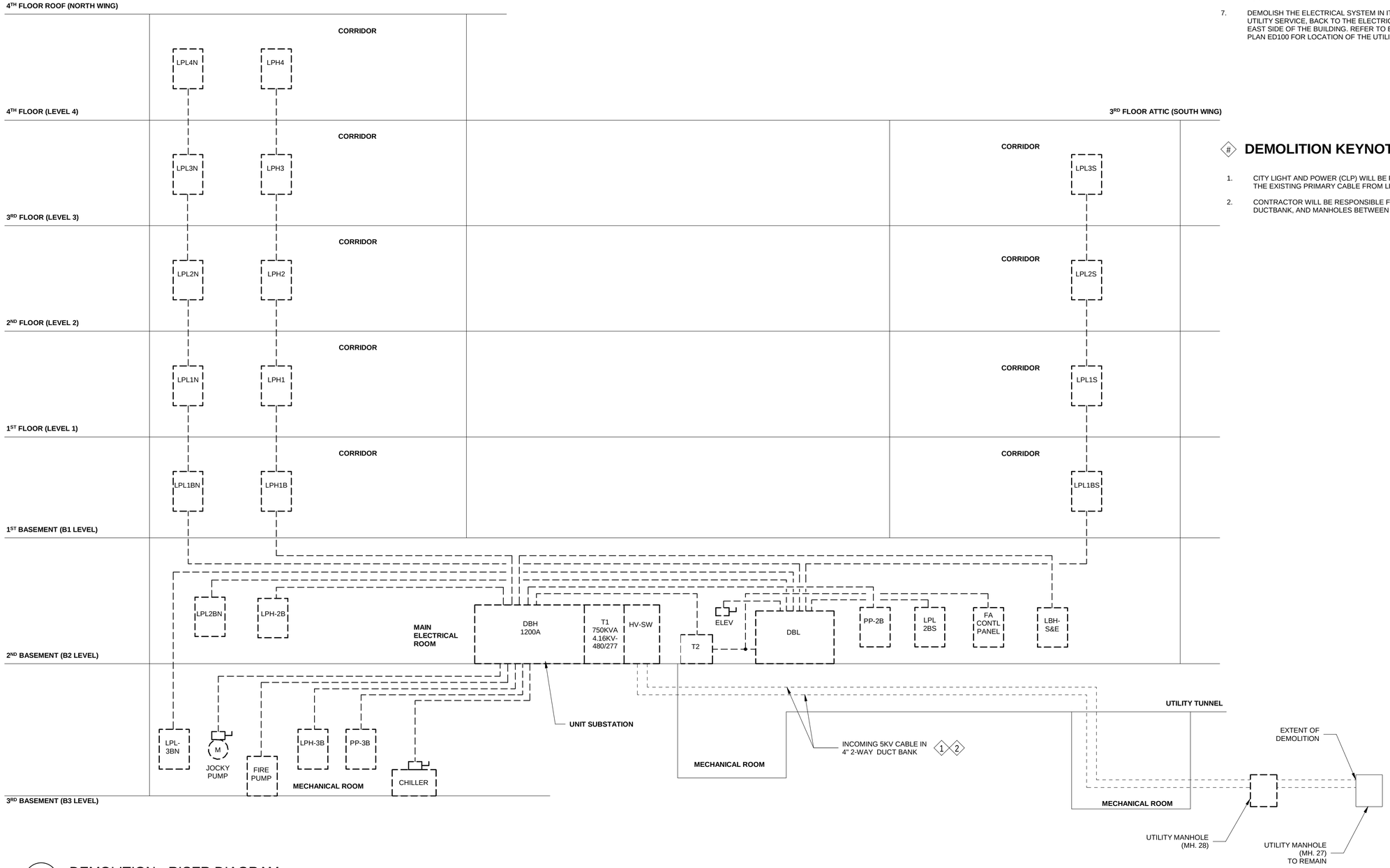
REVISED RTA SUBMISSION 3/1/2023

GENERAL NOTES

1. REFER TO DRAWING SHEETS E-001, AND E-002 FOR ELECTRICAL GENERAL NOTES, ABBREVIATIONS, AND SYMBOLS.
2. REFER TO DRAWING SHEET E-602 FOR ELECTRICAL RISER DIAGRAMS.
3. REFER TO DRAWING SHEET E-601 FOR FEEDER SCHEDULE.
4. REFER TO E-700 SERIES DRAWINGS FOR ELECTRICAL PANEL SCHEDULES.
5. REFER TO DRAWING SHEET ED100 FOR ELECTRICAL SITE DEMOLITION PLAN.
6. REFER TO DRAWING SHEET ES100 FOR NEW WORK ELECTRICAL SITE PLAN.
7. DEMOLISH THE ELECTRICAL SYSTEM IN ITS ENTIRETY, INCLUDING THE UTILITY SERVICE, BACK TO THE ELECTRICAL UITILITY MANHOLE ON THE EAST SIDE OF THE BUILDING. REFER TO ELECTRICAL SITE DEMOLITION PLAN ED100 FOR LOCATION OF THE UTILITY MANHOLE.

DEMOLITION KEYNOTES

1. CITY LIGHT AND POWER (CLP) WILL BE RESPONSIBLE FOR DISCONNECTING THE EXISTING PRIMARY CABLE FROM LINCOLN HALL TO MANHOLE MH-27.
2. CONTRACTOR WILL BE RESPONSIBLE FOR DEMOLISHING CONDUITS, DUCTBANK, AND MANHOLES BETWEEN LINCOLN HALL AND MANHOLE MH-27.



1 DEMOLITION - RISER DIAGRAM
NTS

US Army Corps of Engineers ®

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US ARMY CORPS OF ENGINEERS
LINCOLN HALL
WEST POINT, NEW YORK

JACOBS / EWING COLE *A Joint Venture*

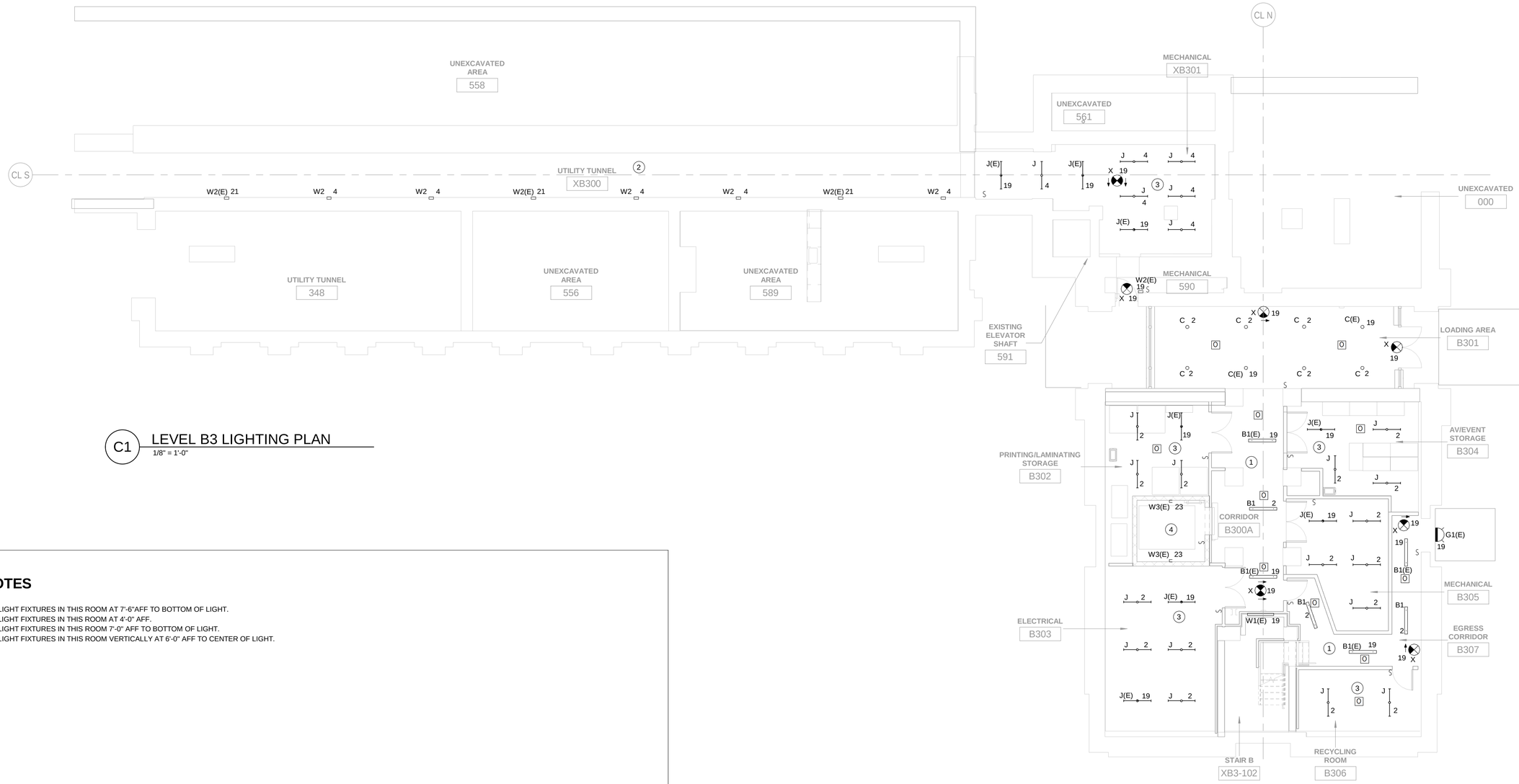
BUILDINGS 605/607 RENOVATION - LINCOLN HALL

DEMOLITION - RISER DIAGRAM

SHEET ID

ED601

REVISED RTA SUBMISSION 3/1/2023



C1 LEVEL B3 LIGHTING PLAN

1/8" = 1'-0"

(#) KEYNOTES

1 INSTALL LIGHT FIXTURES IN THIS ROOM AT 7'-6"AFF TO BOTTOM OF LIGHT.
2 INSTALL LIGHT FIXTURES IN THIS ROOM AT 4'-0" AFF.
3 INSTALL LIGHT FIXTURES IN THIS ROOM 7'-0" AFF TO BOTTOM OF LIGHT.
4 INSTALL LIGHT FIXTURES IN THIS ROOM VERTICALLY AT 6'-0" AFF TO CENTER OF LIGHT.

GENERAL NOTES

1. REFER TO DRAWING SHEETS E-001, AND E-002 FOR ELECTRICAL GENERAL NOTES, ABBREVIATIONS, AND SYMBOLS.
2. REFER TO SHEET EL701 FOR LUMINAIRE SCHEDULE.
3. REFER TO EL702 FOR LIGHTING CONTROL ROOM SCHEDULE.
4. UNLESS OTHERWISE NOTED, ALL NORMAL LIGHT FIXTURES MUST BE CIRCUITED TO PANEL HNB3.
5. UNLESS OTHERWISE NOTED, ALL EMERGENCY LIGHT FIXTURES AND EXIT LIGHTS MUST BE CIRCUITED TO PANEL HB3-E.
6. ALL LIGHT FIXTURES TO BE MOUNTED 8'-0" AFF, UNLESS OTHERWISE NOTED.

0 4' 8' 16'

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

N

US Army Corps of Engineers ®

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LINCOLN HALL
WEST POINT, NEW YORK

JACOBS / EWING COLE A Joint Venture

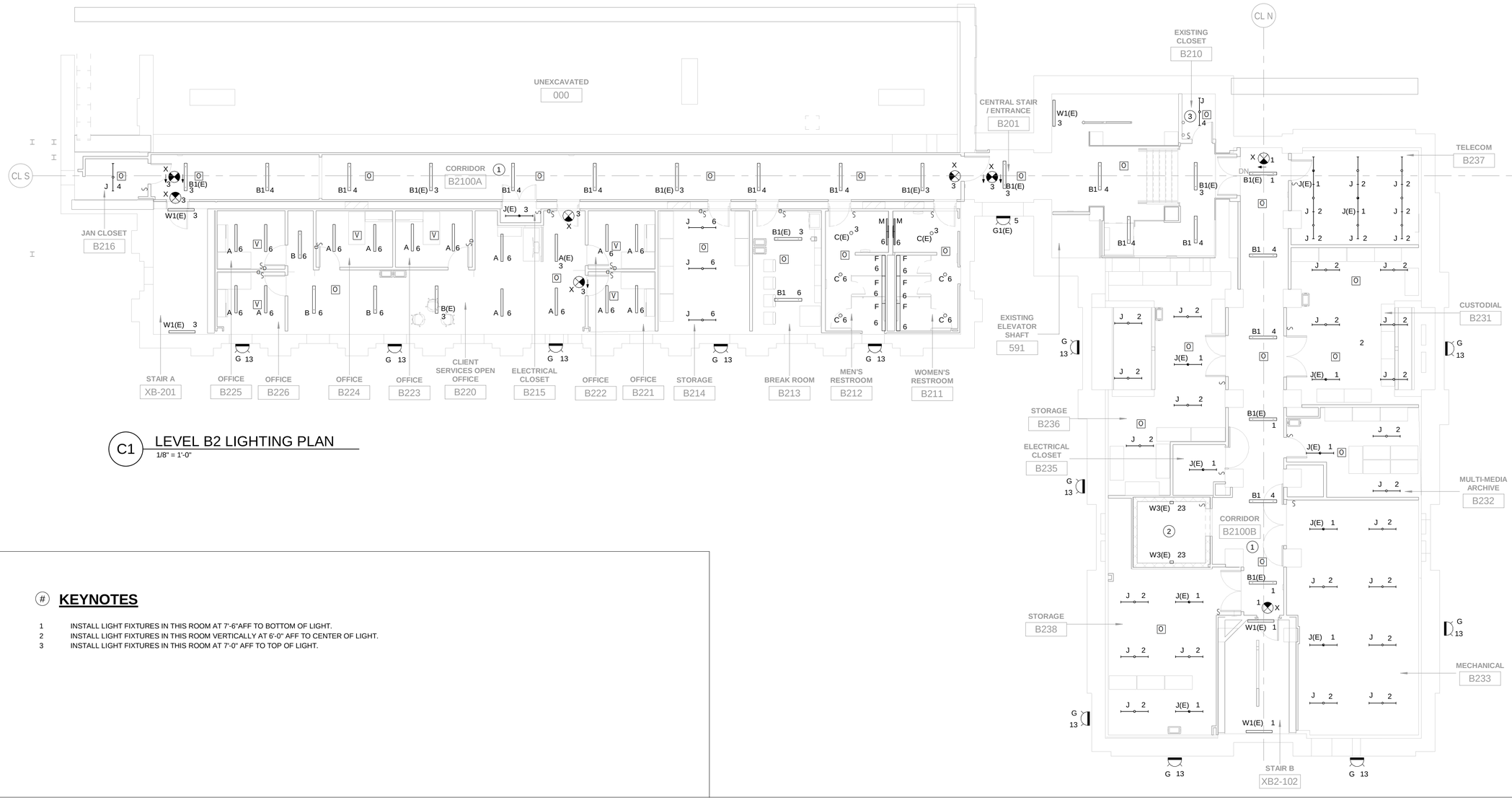
BUILDINGS 605/607 RENOVATION - LINCOLN HALL

LEVEL B3 LIGHTING PLAN

SHEET ID

EL101

REVISED RTA SUBMISSION 3/1/2023



C1 LEVEL B2 LIGHTING PLAN

1/8" = 1'-0"

KEYNOTES

1 INSTALL LIGHT FIXTURES IN THIS ROOM AT 7'-6"AFF TO BOTTOM OF LIGHT.
2 INSTALL LIGHT FIXTURES IN THIS ROOM VERTICALLY AT 6'-0" AFF TO CENTER OF LIGHT.
3 INSTALL LIGHT FIXTURES IN THIS ROOM AT 7'-0" AFF TO TOP OF LIGHT.

GENERAL NOTES

1. REFER TO DRAWING SHEETS E-001, AND E-002 FOR ELECTRICAL GENERAL NOTES, ABBREVIATIONS, AND SYMBOLS.
2. REFER TO SHEET EL701 FOR LUMINAIRE SCHEDULE.
3. REFER TO EL702 FOR LIGHTING CONTROL ROOM SCHEDULE.
4. UNLESS OTHERWISE NOTED, ALL NORMAL LIGHT FIXTURES MUST BE CIRCUITED TO PANEL HNB2.
5. UNLESS OTHERWISE NOTED, ALL EMERGENCY LIGHT FIXTURES AND EXIT LIGHTS MUST BE CIRCUITED TO PANEL HB2-E.
6. ALL LIGHT FIXTURES TO BE MOUNTED 8'-0" AFF, UNLESS OTHERWISE NOTED.

0 4' 8' 16'
SCALE: 1/8"=1'-0"

N

US Army Corps of Engineers ®

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LINCOLN HALL
WEST POINT, NEW YORK

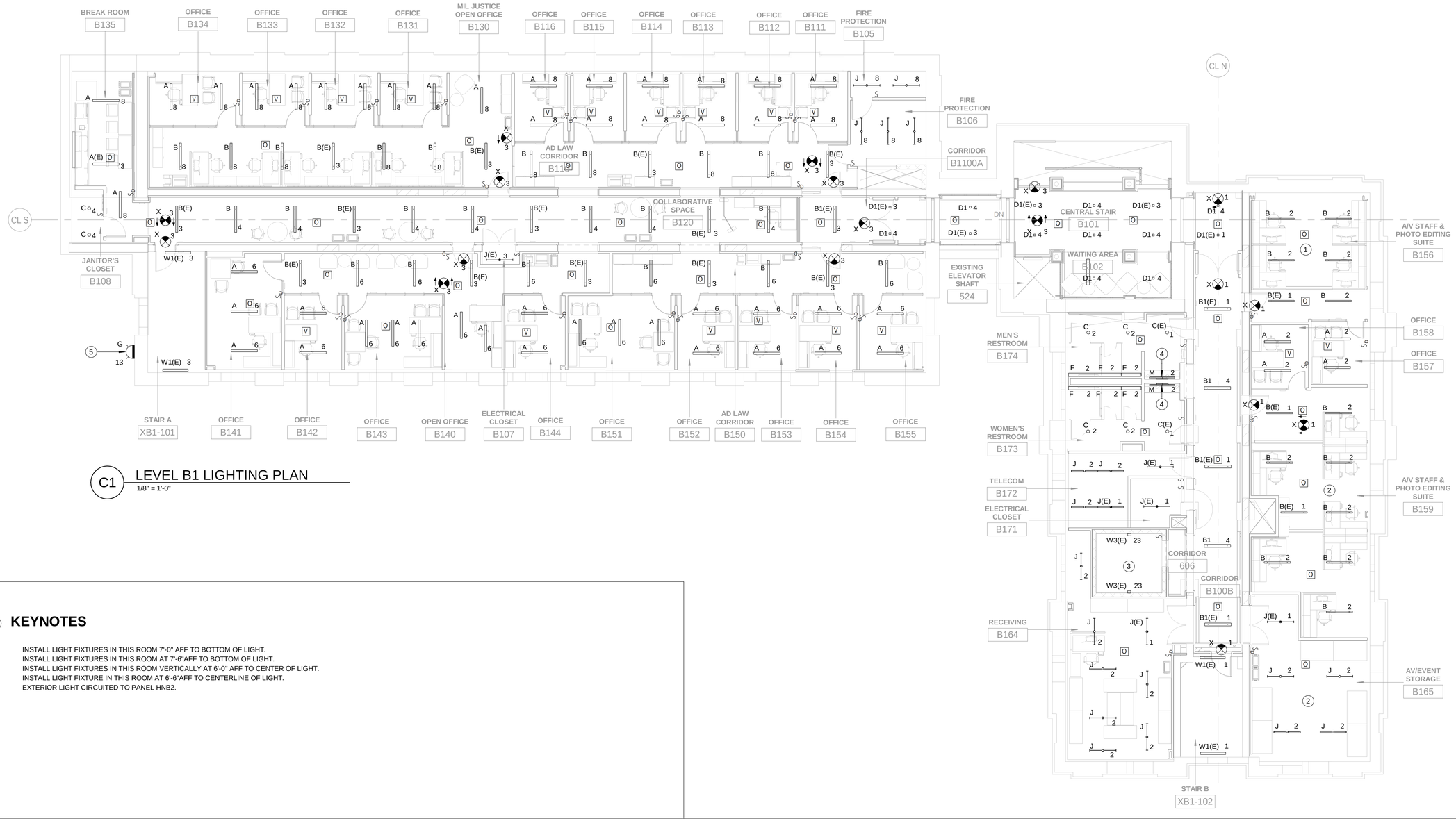
JACOBS / EWING COLE A Joint Venture

BUILDINGS 605/607 RENOVATION - LINCOLN HALL

LEVEL B2 LIGHTING PLAN

SHEET ID
EL102

REVISED RTA SUBMISSION 3/1/2023



C1 LEVEL B1 LIGHTING PLAN

1/8" = 1'-0"

KEYNOTES

1 INSTALL LIGHT FIXTURES IN THIS ROOM 7'-0" AFF TO BOTTOM OF LIGHT.
2 INSTALL LIGHT FIXTURES IN THIS ROOM AT 7'-6"AFF TO BOTTOM OF LIGHT.
3 INSTALL LIGHT FIXTURES IN THIS ROOM VERTICALLY AT 6'-0" AFF TO CENTER OF LIGHT.
4 INSTALL LIGHT FIXTURE IN THIS ROOM AT 6'-6"AFF TO CENTERLINE OF LIGHT.
5 EXTERIOR LIGHT CIRCUITED TO PANEL HNB2.

GENERAL NOTES

1. REFER TO DRAWING SHEETS E-001, AND E-002 FOR ELECTRICAL GENERAL NOTES, ABBREVIATIONS, AND SYMBOLS.
2. REFER TO SHEET EL701 FOR LUMINAIRE SCHEDULE.
3. REFER TO EL702 FOR LIGHTING CONTROL ROOM SCHEDULE.
4. UNLESS OTHERWISE NOTED, ALL NORMAL LIGHT FIXTURES MUST BE CIRCUITED TO PANEL HNB1.
5. UNLESS OTHERWISE NOTED, ALL EMERGENCY LIGHT FIXTURES AND EXIT LIGHTS MUST BE CIRCUITED TO PANEL HB1-E
6. ALL LIGHT FIXTURES TO BE MOUNTED 8'-0" AFF, UNLESS OTHERWISE NOTED.

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

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WEST POINT, NEW YORK

JACOBS / EWING COLE A Joint Venture

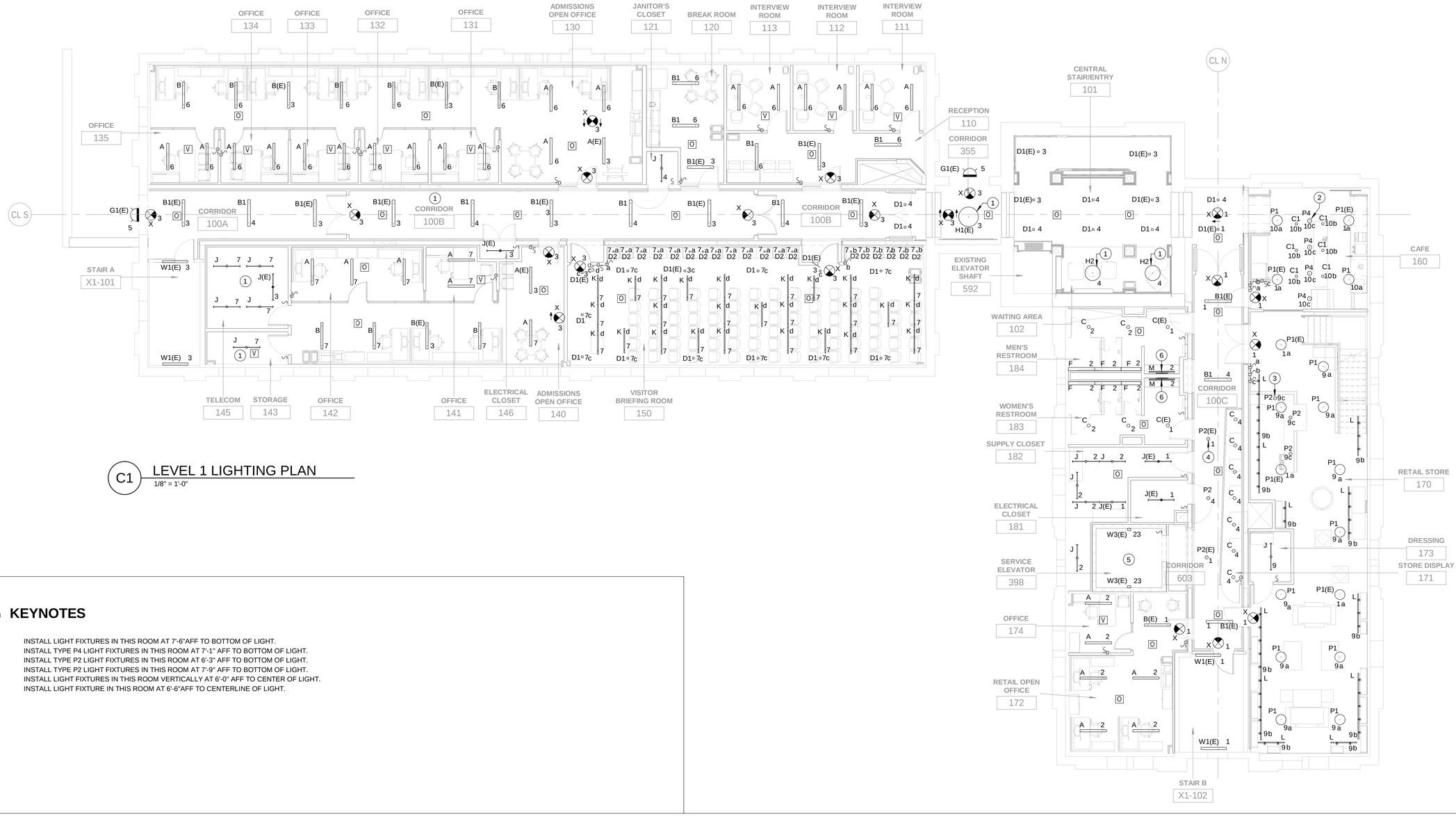
BUILDINGS 605/607 RENOVATION - LINCOLN HALL

LEVEL B1 LIGHTING PLAN

SHEET ID

EL103

REVISED RTA SUBMISSION 3/1/2023



C1 LEVEL 1 LIGHTING PLAN

1/8" = 1'-0"

KEYNOTES

1 INSTALL LIGHT FIXTURES IN THIS ROOM AT 7'-6"AFF TO BOTTOM OF LIGHT.
2 INSTALL TYPE P4 LIGHT FIXTURES IN THIS ROOM AT 7'-1" AFF TO BOTTOM OF LIGHT.
3 INSTALL TYPE P2 LIGHT FIXTURES IN THIS ROOM AT 6'-3" AFF TO BOTTOM OF LIGHT.
4 INSTALL TYPE P2 LIGHT FIXTURES IN THIS ROOM AT 7'-9" AFF TO BOTTOM OF LIGHT.
5 INSTALL LIGHT FIXTURES IN THIS ROOM VERTICALLY AT 6'-0" AFF TO CENTER OF LIGHT.
6 INSTALL LIGHT FIXTURE IN THIS ROOM AT 6'-6"AFF TO CENTERLINE OF LIGHT.

GENERAL NOTES

1. REFER TO DRAWING SHEETS E-001, AND E-002 FOR ELECTRICAL GENERAL NOTES, ABBREVIATIONS, AND SYMBOLS.
2. REFER TO SHEET EL701 FOR LUMINAIRE SCHEDULE.
3. REFER TO EL702 FOR LIGHTING CONTROL ROOM SCHEDULE.
4. UNLESS OTHERWISE NOTED, ALL NORMAL LIGHT FIXTURES MUST BE CIRCUITED TO PANEL HN1.
5. UNLESS OTHERWISE NOTED, ALL EMERGENCY LIGHT FIXTURES AND EXIT LIGHTS MUST BE CIRCUITED TO PANEL H1-E.
6. ALL LIGHT FIXTURES TO BE MOUNTED 8'-0" AFF, UNLESS OTHERWISE NOTED.

0 4' 8' 16'

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

N

US Army Corps of Engineers ®

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US ARMY CORPS OF ENGINEERS
LINCOLN HALL
WEST POINT, NEW YORK

JACOBS / EWING COLE A Joint Venture

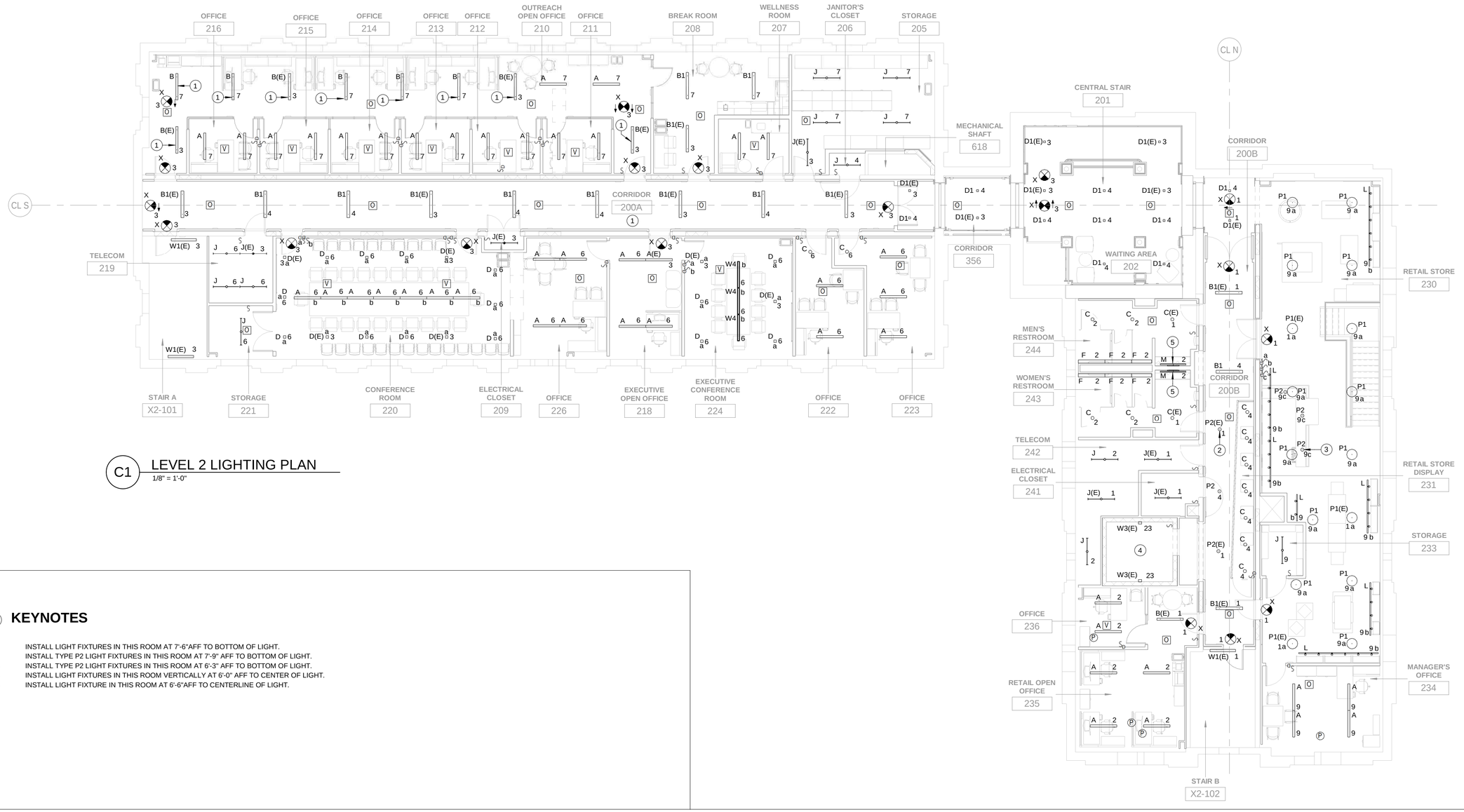
BUILDINGS 605/607 RENOVATION - LINCOLN HALL

LEVEL 1 LIGHTING PLAN

SHEET ID

EL104

REVISED RTA SUBMISSION 3/1/2023



C1 LEVEL 2 LIGHTING PLAN

1/8" = 1'-0"

KEYNOTES

1 INSTALL LIGHT FIXTURES IN THIS ROOM AT 7'-6"AFF TO BOTTOM OF LIGHT.
2 INSTALL TYPE P2 LIGHT FIXTURES IN THIS ROOM AT 7'-9" AFF TO BOTTOM OF LIGHT.
3 INSTALL TYPE P2 LIGHT FIXTURES IN THIS ROOM AT 6'-3" AFF TO BOTTOM OF LIGHT.
4 INSTALL LIGHT FIXTURES IN THIS ROOM VERTICALLY AT 6'-0" AFF TO CENTER OF LIGHT.
5 INSTALL LIGHT FIXTURE IN THIS ROOM AT 6'-6"AFF TO CENTERLINE OF LIGHT.

GENERAL NOTES

1. REFER TO DRAWING SHEETS E-001, AND E-002 FOR ELECTRICAL GENERAL NOTES, ABBREVIATIONS, AND SYMBOLS.
2. REFER TO SHEET EL701 FOR LUMINAIRE SCHEDULE.
3. REFER TO EL702 FOR LIGHTING CONTROL ROOM SCHEDULE.
4. UNLESS OTHERWISE NOTED, ALL NORMAL LIGHT FIXTURES MUST BE CIRCUITED TO PANEL HN2.
5. UNLESS OTHERWISE NOTED, ALL EMERGENCY LIGHT FIXTURES AND EXIT LIGHTS MUST BE CIRCUITED TO PANEL H2-E.
6. ALL LIGHT FIXTURES TO BE MOUNTED 8'-0" AFF, UNLESS OTHERWISE NOTED.

0 4' 8' 16'

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

N

US Army Corps of Engineers ®

MARK	DESCRIPTION	DATE

DESIGNED BY: D. PAXTON
DRAWN BY: D. PAXTON
CHECKED BY: Y. SOLOMON
SUBMITTED BY:

ISSUE DATE: 01 MARCH 2023
SOLICITATION NO.: W912DS-19-R-0014
CONTRACT NO.: W912DS-19-C-0031-L
FILE NUMBER:

SIZE: ANSI 'D' FILE NAME:

US ARMY CORPS OF ENGINEERS
LINCOLN HALL
WEST POINT, NEW YORK

JACOBS / EWING COLE *A Joint Venture*

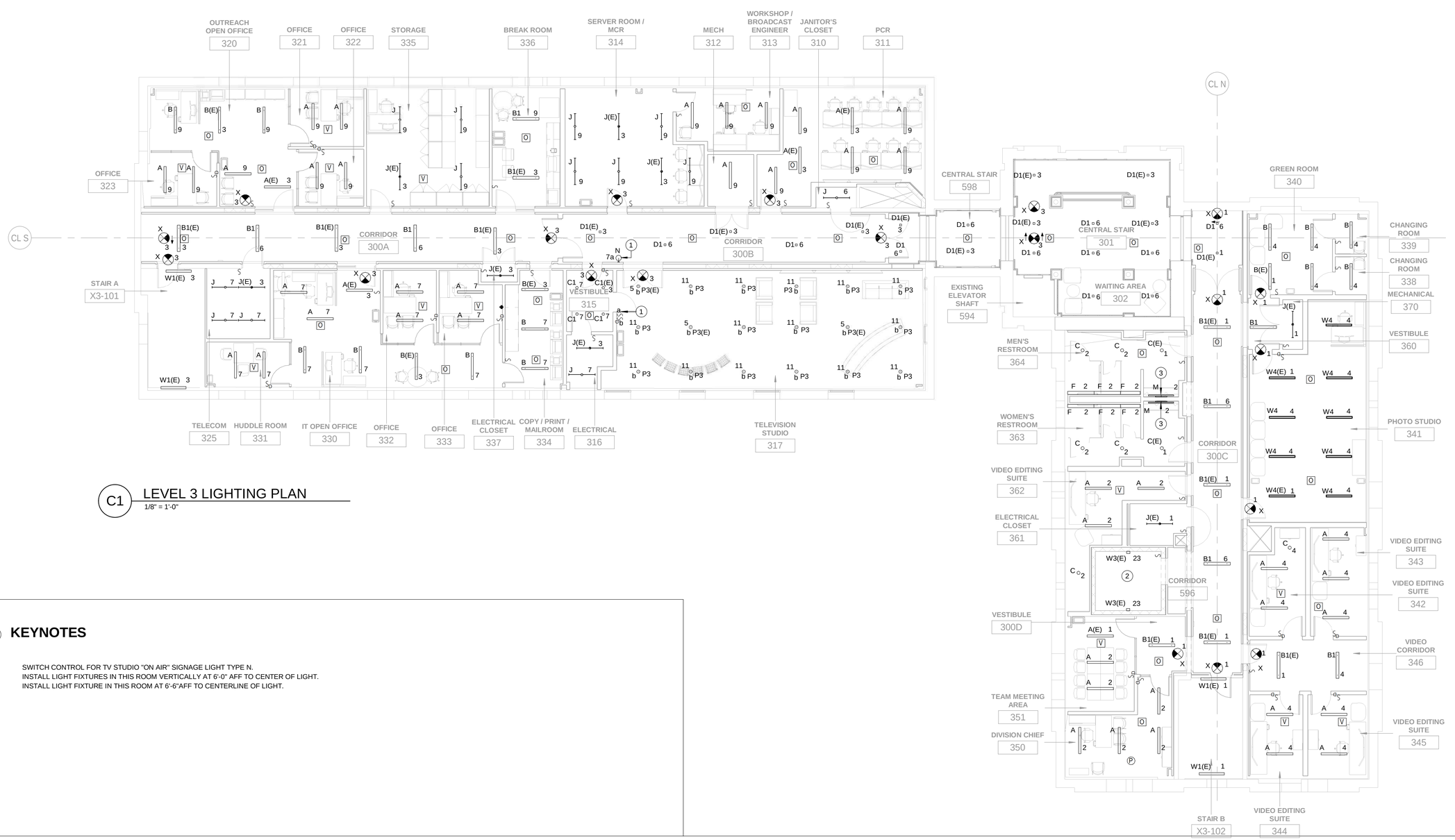
BUILDINGS 605/607 RENOVATION - LINCOLN HALL

LEVEL 2 LIGHTING PLAN

SHEET ID

EL105

REVISED RTA SUBMISSION 3/1/2023



C1 LEVEL 3 LIGHTING PLAN

1/8" = 1'-0"

KEYNOTES

1 SWITCH CONTROL FOR TV STUDIO "ON AIR" SIGNAGE LIGHT TYPE N.
2 INSTALL LIGHT FIXTURES IN THIS ROOM VERTICALLY AT 6'-0" AFF TO CENTER OF LIGHT.
3 INSTALL LIGHT FIXTURE IN THIS ROOM AT 6'-6"AFF TO CENTERLINE OF LIGHT.

GENERAL NOTES

1. REFER TO DRAWING SHEETS E-001, AND E-002 FOR ELECTRICAL GENERAL NOTES, ABBREVIATIONS, AND SYMBOLS.
2. REFER TO SHEET EL701 FOR LUMINAIRE SCHEDULE.
3. REFER TO EL702 FOR LIGHTING CONTROL ROOM SCHEDULE.
4. UNLESS OTHERWISE NOTED, ALL NORMAL LIGHT FIXTURES MUST BE CIRCUITED TO PANEL HN3.
5. UNLESS OTHERWISE NOTED, ALL EMERGENCY LIGHT FIXTURES AND EXIT LIGHTS MUST BE CIRCUITED TO PANEL H3-E.
6. ALL LIGHT FIXTURES TO BE MOUNTED 8'-0" AFF, UNLESS OTHERWISE NOTED.

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

REVISED RTA SUBMISSION 3/1/2023

US Army Corps of Engineers ®

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US ARMY CORPS OF ENGINEERS
LINCOLN HALL
WEST POINT, NEW YORK

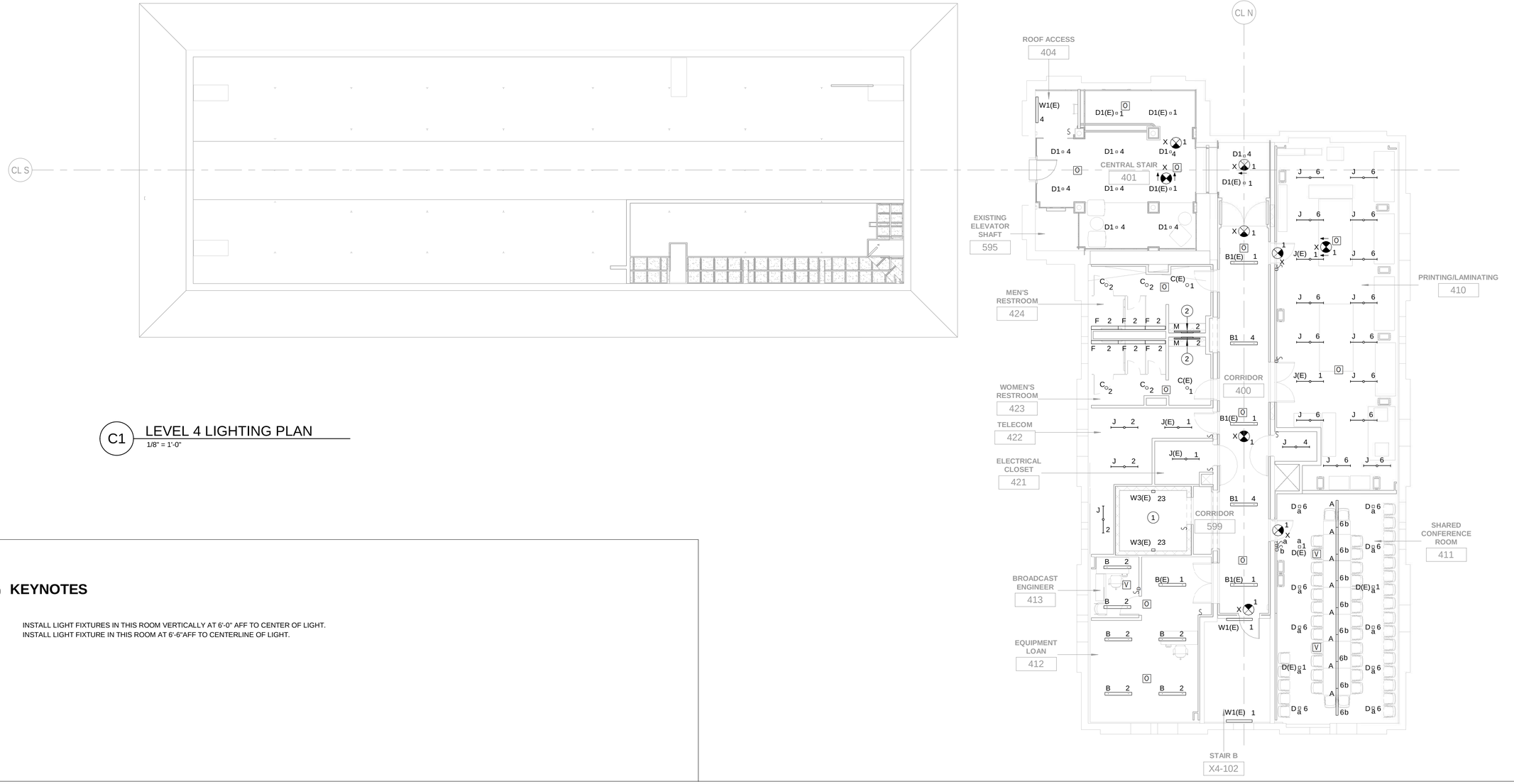
JACOBS / EWING COLE A Joint Venture

BUILDINGS 605/607 RENOVATION - LINCOLN HALL

LEVEL 3 LIGHTING PLAN

SHEET ID

EL106



C1 LEVEL 4 LIGHTING PLAN

1/8" = 1'-0"

KEYNOTES

1 INSTALL LIGHT FIXTURES IN THIS ROOM VERTICALLY AT 6'-0" AFF TO CENTER OF LIGHT.
2 INSTALL LIGHT FIXTURE IN THIS ROOM AT 6'-6"AFF TO CENTERLINE OF LIGHT.

GENERAL NOTES

1. REFER TO DRAWING SHEETS E-001, AND E-002 FOR ELECTRICAL GENERAL NOTES, ABBREVIATIONS, AND SYMBOLS.
2. REFER TO SHEET EL701 FOR LUMINAIRE SCHEDULE.
3. REFER TO EL702 FOR LIGHTING CONTROL ROOM SCHEDULE.
4. UNLESS OTHERWISE NOTED, ALL NORMAL LIGHT FIXTURES MUST BE CIRCUITED TO PANEL HN4.
5. UNLESS OTHERWISE NOTED, ALL EMERGENCY LIGHT FIXTURES AND EXIT LIGHTS MUST BE CIRCUITED TO PANEL H4-E.
6. ALL LIGHT FIXTURES TO BE MOUNTED 8'-0" AFF, UNLESS OTHERWISE NOTED

0 4' 8' 16'
SCALE: 1/8"=1'-0"

N

US Army Corps of Engineers ®

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LINCOLN HALL
WEST POINT, NEW YORK

JACOBS / EWING COLE A Joint Venture

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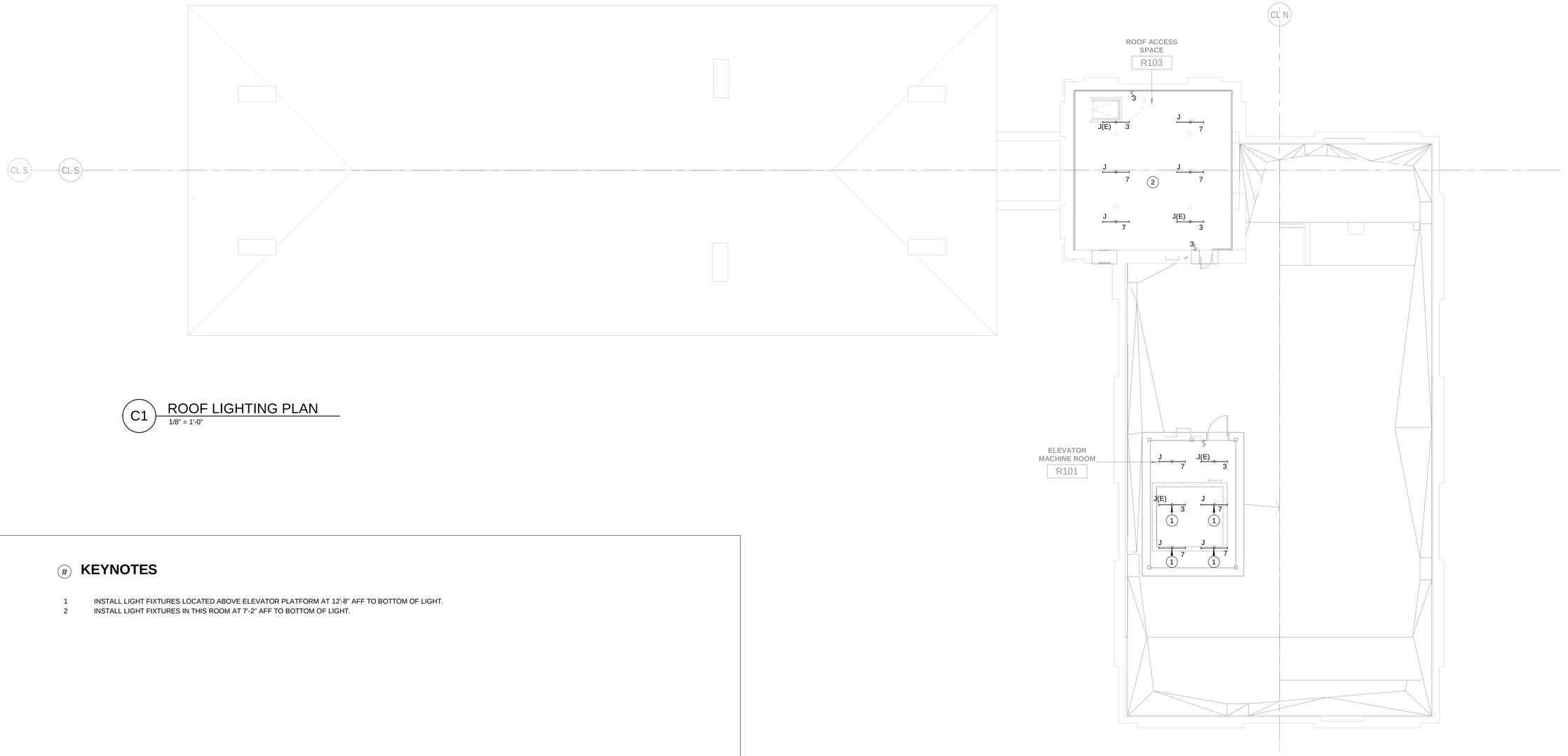
FILE NUMBER:

BUILDINGS 605/607 RENOVATION - LINCOLN HALL

LEVEL 4 LIGHTING PLAN

SHEET ID
EL107

REVISED RTA SUBMISSION 3/1/2023



C1 ROOF LIGHTING PLAN

1/8" = 1'-0"

KEYNOTES

1 INSTALL LIGHT FIXTURES LOCATED ABOVE ELEVATOR PLATFORM AT 12'-8" AFF TO BOTTOM OF LIGHT.
2 INSTALL LIGHT FIXTURES IN THIS ROOM AT 7'-2" AFF TO BOTTOM OF LIGHT.

GENERAL NOTES

1. REFER TO DRAWING SHEETS E-001, AND E-002 FOR ELECTRICAL GENERAL NOTES, ABBREVIATIONS, AND SYMBOLS.
2. REFER TO SHEET EL701 FOR LUMINAIRE SCHEDULE.
3. REFER TO EL702 FOR LIGHTING CONTROL ROOM SCHEDULE.
4. UNLESS OTHERWISE NOTED, ALL NORMAL LIGHT FIXTURES MUST BE CIRCUITED TO PANEL HN4.
5. UNLESS OTHERWISE NOTED, ALL EMERGENCY LIGHT FIXTURES MUST BE CIRCUITED TO PANEL H4-E.
6. ALL LIGHT FIXTURES TO BE MOUNTED 8'-0" AFF, UNLESS OTHERWISE NOTED

0 4' 8' 16'

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

N

US Army Corps of Engineers ®

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US ARMY CORPS OF ENGINEERS
LINCOLN HALL
WEST POINT, NEW YORK

JACOBS / EWING COLE A Joint Venture

BUILDINGS 605/607 RENOVATION - LINCOLN HALL

ROOF LIGHTING PLAN

SHEET ID

EL108

REVISED RTA SUBMISSION 3/1/2023

LUMINAIRE SCHEDULE

TYPE	LUMINAIRE DESCRIPTION	MANUFACTURER (OR APPROVED EQUAL)	CATALOG NUMBER (OR APPROVED EQUAL)	LAMP TYPE	WATTAGE	VOLTAGE	LUMMENS OUTPUT	MOUNTING METHOD	NOTES
		GENERIC	GENERIC	LED					
A	RECESSED LINEAR LED	AXIS	BBRLED-750-80-35-30-FL-4-W	LED	34 W	277 V	2998 lm		
B	LINEAR LED PENDANT DIRECT	AXIS	TB4DLED-800-80-35-0.25G-4	LED	28 W	277 V	3199 lm	PENDANT MOUNTED	
B1	LINEAR LED PENDANT DIRECT	FINELITE	HP-6-R-4FT-B-8-35	LED	18 W	277 V	1938 lm	PENDANT MOUNTED	
C	RECESSED LED 4" ROUND DOWNLIGHT	GOTHAM	EVO4_35_07_4AR_WD_LS	LED	10 W	277 V	700 lm		
C1	RECESSED LED 2.5" ROUND DOWNLIGHT	FOCAL POINT	FLS2DD-RO-500L-NFL-120-LD1-T/LS2-RD-35K-DNC-NFL-CD-WH	LED	6 W	277 V	500 lm	RECESSED	
D	RECESSED LED 4" SQUARE DOWNLIGH	GOTHAM	EVO4SQ_35_07_AR_MWD-LSS_90CRI	LED	10 W	277 V	750 lm	RECESSED	
D1	RECESSED LED 4" SQUARE DOWNLIGH	FOCAL POINT	FLC33D-SDT-SW-1100L-SDT-1100L-35K-DNS-FL2-CD	LED	12 W	277 V	1100 lm	RECESSED	
D2	RECESSED LED 2.5" SQUARE DOWNLIGH	FOCAL POINT	FLC22D-SDO-SW-500L-LZ1	LED	6 W	277 V	500 lm	RECESSED	
F	RECESSED LINEAR COVE	SELUX	L60-1B25-40-NB-X-04-XX-UN	LED	28 W	277 V	2210 lm	RECESSED	
G	SURFACE MOUNTED LOW PROFILE WALL PACK TBD.	STONCO	LPW32-50-NW-G3-4-UNV-EMP	LED	45 W	277 V	4584 lm	SURFACE MOUNTED	
G1	WALL MOUNTED ORNAMENTAL SCONCE	US ARCHITECTURAL LIGHTING	COL12-CPA-WM-PLED-3-M-20LED-525MA-NW	LED	33 W	277 V	3416 lm		
H1	DECORATIVE PENDANT	BOYD LIGHTING	10122 36INCH	LED	100 W	277 V	2550 lm	PENDANT MOUNTED	
H2	DECORATIVE PENDANT	BOYD LIGHTING	10118 28INCH	LED	75 W	277 V	1612 lm	PENDANT MOUNTED	
J	INDUSTRIAL LED PENDANT	EATON	4SNLED-LD4-24SL-LW-UNV-L835	LED	22 W	277 V	2400 lm	PENDANT MOUNTED	PROVIDE FIXTURE WITH WIRE GUARD
K	LINEAR LED PENDANT DIRECT	FOCAL POINT	FSM1LS 250LF 35K	LED	10 W	277 V	1015 lm	PENDANT MOUNTED	
L	PENDANT TRACK LIGHT	LIGHTOLIER	LIGHTOLIER TRACK LIGHT SYSTEM LLAV11	LED	14 W	277 V	1300 lm	SURFACE MOUNTED	
M	WALL LED DIRECT/INDIRECT	EUREKA	3540+74540-47-LED_REG	LED	26 W	277 V	2452 lm	SURFACE MOUNTED	
N	DIE CAST LED CUSTOM SIGNAGE "ON AIR"	MULE LIGHTING	RPRO-NB-2-G-W-W-LE	LED	3 W	277 V	300 lm	SURFACE MOUNTED	
P1	DECORATIVE PENDANT	LUMINIS	HC-1600-L475	LED	77 W	277 V	7789 lm	PENDANT MOUNTED	
P2	DECORATIVE PENDANT	LUMINIS	AR160 35K	LED	16 W	277 V	1247 lm	PENDANT MOUNTED	
P3	DECORATIVE PENDANT	LIGHTOLIER	C6PDL15940M	LED	15 W	277 V	1500 lm	PENDANT MOUNTED	
P4	DECORATIVE PENDANT	VISA LIGHTING	CP7120-8-L35K-90-MVOLT	LED	8 W	277 V	1100 lm	PENDANT MOUNTED	
W1	WALL SCONCE DIRECT/INDIRECT	LITHONIA	WL4 30L LP840	LED	28 W	277 V	3000 lm	SURFACE MOUNTED	PROVIDE FIXTURE WITH INTEGRAL OCCUPANCY SENSOR
W2	WALL SCONCE DIRECT/INDIRECT	HUBBELL	VTC-SK-G-U-P2-G-GR	LED	28 W	277 V	1396 lm	SURFACE MOUNTED	
W3	SURFACE MOUNTED LED	LITHONIA	FEM-L48-3000LM-LPPFL-MD-XX-40K	LED	22 W	277 V	3000 lm	SURFACE MOUNTED	
W4	SURFACE MOUNTED LED	AXIS	ARSLED-900-80-35-S-4-W-277-DP	LED	38 W	277 V	3599 lm	SURFACE MOUNTED	
X	EXIT SIGN	LITHONIA	LQC	LED	1 W	277 V	50 lm	SURFACE MOUNTED	

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LINCOLN HALL
WEST POINT, NEW YORK

JACOBS / EWING COLE *A Joint Venture*

BUILDINGS 605/607 RENOVATION - LINCOLN HALL

LUMINAIRE SCHEDULE

SHEET ID

EL701

LIGHTING CONTROL ROOM SCHEDULE

ROOM#	ROOM NAME	MANUAL CONTROL STATION	DIMMING SCHEME	AUTOMATIC CONTROL TYPE	LIGHTING CONTROL SCHEME
B306-2	RECYCLING ROOM-2	ON/OFF/DIMMER/PRESET	STANDARD	OCCUPANCY SENSOR	SHARED
B307	EGRESS CORRIDOR	-	CIRCULATION	OCCUPANCY SENSOR	PUBLIC
B300A	CORRIDOR	-	CIRCULATION	OCCUPANCY SENSOR	PUBLIC
B301	LOADING AREA	ON/OFF	-	VACANCY SENSOR	SHARED
B302	PRINTING/LAMINATING STORAGE	ON/OFF/DIMMER/PRESET	STANDARD	OCCUPANCY SENSOR	SHARED
B303	ELECTRICAL	ON/OFF	-	-	-
B304	AV/EVENT STORAGE	ON/OFF/DIMMER/PRESET	STANDARD	VACANCY SENSOR	PRIVATE
B305	MECHANICAL	ON/OFF	-	-	-
B306	RECYCLING ROOM	ON/OFF/DIMMER/PRESET	STANDARD	OCCUPANCY SENSOR	SHARED
XB3-102	STAIR B	-	-	OCCUPANCY SENSOR	PUBLIC
XB301	MECHANICAL	ON/OFF	-	-	-
B201	CENTRAL STAIR / ENTRANCE	ON/OFF	-	VACANCY SENSOR	PUBLIC
B211	WOMEN'S RESTROOM	ON/OFF	-	VACANCY SENSOR	PRIVATE
B212	MEN'S RESTROOM	ON/OFF	-	VACANCY SENSOR	PRIVATE
B213	BREAK ROOM	ON/OFF/DIMMER/PRESET	STANDARD	VACANCY SENSOR	SHARED
B214	STORAGE	ON/OFF/DIMMER/PRESET	STANDARD	VACANCY SENSOR	PRIVATE
B215	ELECTRICAL CLOSET	ON/OFF	-	-	-
B220	CLIENT SERVICES OPEN OFFICE	ON/OFF/DIMMER/MULTI-ZONE/ PRESET	STANDARD	OCCUPANCY SENSOR	SHARED
B221	OFFICE	ON/OFF/DIMMER/PRESET	STANDARD	VACANCY SENSOR	PRIVATE
B222	OFFICE	ON/OFF/DIMMER/PRESET	STANDARD	VACANCY SENSOR	PRIVATE
B223	OFFICE	ON/OFF/DIMMER/PRESET	STANDARD	VACANCY SENSOR	PRIVATE
B224	OFFICE	ON/OFF/DIMMER/PRESET	STANDARD	VACANCY SENSOR	PRIVATE
B225	OFFICE	ON/OFF/DIMMER/PRESET	STANDARD	VACANCY SENSOR	PRIVATE
B226	OFFICE	ON/OFF/DIMMER/PRESET	STANDARD	VACANCY SENSOR	PRIVATE
B231	CUSTODIAL	ON/OFF	-	-	-
B232	MULTI-MEDIA ARCHIVE	ON/OFF/DIMMER/PRESET	STANDARD	OCCUPANCY SENSOR	SHARED
B233	MECHANICAL	ON/OFF	-	-	-
B235	ELECTRICAL CLOSET	ON/OFF	-	-	-
B236	STORAGE	ON/OFF/DIMMER/PRESET	STANDARD	VACANCY SENSOR	PRIVATE
B237	TELECOM	ON/OFF	-	-	-
B238	STORAGE	ON/OFF/DIMMER/PRESET	STANDARD	VACANCY SENSOR	PRIVATE
B2100A	CORRIDOR	-	CIRCULATION	OCCUPANCY SENSOR	PUBLIC
B2100B	CORRIDOR	-	CIRCULATION	OCCUPANCY SENSOR	PUBLIC
XB2-102	STAIR B	-	-	OCCUPANCY SENSOR	PUBLIC
B105	FIRE PROTECTION	ON/OFF	-	-	-
B106	FIRE PROTECTION	ON/OFF	-	-	-
B107	ELECTRICAL CLOSET	ON/OFF	-	-	-
B108	JANITOR'S CLOSET	ON/OFF	-	-	-
B110	AD LAW CORRIDOR	-	CIRCULATION	OCCUPANCY SENSOR	PUBLIC
B111	OFFICE	ON/OFF/DIMMER/PRESET	STANDARD	VACANCY SENSOR	PRIVATE
B112	OFFICE	ON/OFF/DIMMER/PRESET	STANDARD	VACANCY SENSOR	PRIVATE
B113	OFFICE	ON/OFF/DIMMER/PRESET	STANDARD	VACANCY SENSOR	PRIVATE
B114	OFFICE	ON/OFF/DIMMER/PRESET	STANDARD	VACANCY SENSOR	PRIVATE
B115	OFFICE	ON/OFF/DIMMER/PRESET	STANDARD	VACANCY SENSOR	PRIVATE
B116	OFFICE	ON/OFF/DIMMER/PRESET	STANDARD	VACANCY SENSOR	PRIVATE
B120	COLLABORATIVE SPACE	-	CIRCULATION	OCCUPANCY SENSOR	PUBLIC
B130	MIL JUSTICE OPEN OFFICE	ON/OFF/DIMMER/MULTI-ZONE/ PRESET	STANDARD	OCCUPANCY SENSOR	SHARED
B131	OFFICE	ON/OFF/DIMMER/PRESET	STANDARD	VACANCY SENSOR	PRIVATE
B132	OFFICE	ON/OFF/DIMMER/PRESET	STANDARD	VACANCY SENSOR	PRIVATE
B133	OFFICE	ON/OFF/DIMMER/PRESET	STANDARD	VACANCY SENSOR	PRIVATE
B134	OFFICE	ON/OFF/DIMMER/PRESET	STANDARD	VACANCY SENSOR	PRIVATE
B135	BREAK ROOM	ON/OFF/DIMMER/PRESET	STANDARD	VACANCY SENSOR	SHARED
B140	OPEN OFFICE	ON/OFF/DIMMER/MULTI-ZONE/ PRESET	STANDARD	OCCUPANCY SENSOR	SHARED
B141	OFFICE	ON/OFF/DIMMER/PRESET	STANDARD	VACANCY SENSOR	PRIVATE
B142	OFFICE	ON/OFF/DIMMER/PRESET	STANDARD	VACANCY SENSOR	PRIVATE
B143	OFFICE	ON/OFF/DIMMER/PRESET	STANDARD	VACANCY SENSOR	PRIVATE
B144	OFFICE	ON/OFF/DIMMER/PRESET	STANDARD	VACANCY SENSOR	PRIVATE
B145	OFFICE	ON/OFF/DIMMER/PRESET	STANDARD	VACANCY SENSOR	PRIVATE
B150	AD LAW CORRIDOR	-	CIRCULATION	OCCUPANCY SENSOR	PUBLIC
B151	OFFICE	ON/OFF/DIMMER/PRESET	STANDARD	VACANCY SENSOR	PRIVATE
B152	OFFICE	ON/OFF/DIMMER/PRESET	STANDARD	VACANCY SENSOR	PRIVATE
B153	OFFICE	ON/OFF/DIMMER/PRESET	STANDARD	VACANCY SENSOR	PRIVATE
B154	AD LAW OPEN OFFICE	ON/OFF/DIMMER/MULTI-ZONE/ PRESET	STANDARD	OCCUPANCY SENSOR	SHARED
B1100A	CORRIDOR	-	CIRCULATION	OCCUPANCY SENSOR	PUBLIC
XB1-101	STAIR A	-	-	OCCUPANCY SENSOR	PUBLIC
B100B	CORRIDOR	-	CIRCULATION	OCCUPANCY SENSOR	PUBLIC
B101	CENTRAL STAIR	-	-	OCCUPANCY SENSOR	PUBLIC
B156	A/V STAFF & PHOTO EDITING SUITE	ON/OFF/DIMMER/PRESET	STANDARD	VACANCY SENSOR	PRIVATE
B157	OFFICE	ON/OFF/DIMMER/PRESET	STANDARD	VACANCY SENSOR	PRIVATE
B158	OFFICE	ON/OFF/DIMMER/PRESET	STANDARD	VACANCY SENSOR	PRIVATE
B159	A/V STAFF & PHOTO EDITING SUITE	ON/OFF/DIMMER/PRESET	STANDARD	VACANCY SENSOR	PRIVATE
B164	STORAGE	ON/OFF/DIMMER/PRESET	STANDARD	VACANCY SENSOR	PRIVATE
B165	AV/EVENT STORAGE	ON/OFF/DIMMER/PRESET	STANDARD	VACANCY SENSOR	PRIVATE
B171	ELECTRICAL CLOSET	ON/OFF	-	-	-
B172	TELECOM	ON/OFF	-	-	-
B173	WOMEN'S RESTROOM	ON/OFF	-	VACANCY SENSOR	PRIVATE
B174	MEN'S RESTROOM	ON/OFF	-	VACANCY SENSOR	PRIVATE
XB1-102	STAIR B	-	-	OCCUPANCY SENSOR	PUBLIC
100A	CORRIDOR	-	CIRCULATION	OCCUPANCY SENSOR	PUBLIC
100B	CORRIDOR	-	CIRCULATION	OCCUPANCY SENSOR	PUBLIC
100C	CORRIDOR	-	CIRCULATION	OCCUPANCY SENSOR	PUBLIC
101	CENTRAL STAIR/ENTRY	-	CIRCULATION	OCCUPANCY SENSOR	PUBLIC
102	WAITING AREA	ON/OFF	-	OCCUPANCY SENSOR	SHARED
110	RECEPTION	ON/OFF/DIMMER/MULTI-ZONE/ PRESET	STANDARD	OCCUPANCY SENSOR	SHARED
111	INTERVIEW ROOM	ON/OFF/DIMMER/PRESET	STANDARD	VACANCY SENSOR	PRIVATE
112	INTERVIEW ROOM	ON/OFF/DIMMER/PRESET	STANDARD	VACANCY SENSOR	PRIVATE
113	INTERVIEW ROOM	ON/OFF/DIMMER/PRESET	STANDARD	VACANCY SENSOR	PRIVATE
120	BREAK ROOM	ON/OFF/DIMMER/PRESET	STANDARD	VACANCY SENSOR	SHARED
121	JANITOR'S CLOSET	ON/OFF/DIMMER/PRESET	STANDARD	VACANCY SENSOR	PRIVATE
130	ADMISSIONS OPEN OFFICE	ON/OFF/DIMMER/MULTI-ZONE/ PRESET	STANDARD	OCCUPANCY SENSOR	SHARED
131	OFFICE	ON/OFF/DIMMER/PRESET	STANDARD	VACANCY SENSOR	PRIVATE
132	OFFICE	ON/OFF/DIMMER/PRESET	STANDARD	VACANCY SENSOR	PRIVATE
133	OFFICE	ON/OFF/DIMMER/PRESET	STANDARD	VACANCY SENSOR	PRIVATE
134	OFFICE	ON/OFF/DIMMER/PRESET	STANDARD	VACANCY SENSOR	PRIVATE
135	OFFICE	ON/OFF/DIMMER/PRESET	STANDARD	VACANCY SENSOR	PRIVATE
140	ADMISSIONS OPEN OFFICE	ON/OFF/DIMMER/MULTI-ZONE/ PRESET	STANDARD	OCCUPANCY SENSOR	SHARED
141	OFFICE	ON/OFF/DIMMER/PRESET	STANDARD	VACANCY SENSOR	SHARED
142	OFFICE	ON/OFF/DIMMER/PRESET	STANDARD	VACANCY SENSOR	PRIVATE
143	STORAGE	ON/OFF/DIMMER/PRESET	STANDARD	VACANCY SENSOR	PRIVATE
145	TELECOM	ON/OFF	-	-	-
146	ELECTRICAL CLOSET	ON/OFF	-	-	-
150	VISITOR BRIEFING ROOM	MULTI-SCENE/MULTI-ZONE/DIMMER	CONFERENCE ROOM	OCCUPANCY SENSOR	PRIVATE
160	CAFE	ON/OFF/DIMMER/PRESET	STANDARD	VACANCY SENSOR	SHARED
170	RETAIL STORE	ON/OFF/DIMMER/PRESET	STANDARD	VACANCY SENSOR	SHARED

LIGHTING CONTROL ROOM SCHEDULE

ROOM#	ROOM NAME	MANUAL CONTROL STATION	DIMMING SCHEME	AUTOMATIC CONTROL TYPE	LIGHTING CONTROL SCHEME
171	STORE DISPLAY	ON/OFF/DIMMER/PRESET	STANDARD	VACANCY SENSOR	SHARED
172	OPEN OFFICE	ON/OFF/DIMMER/MULTI-ZONE/ PRESET	STANDARD	OCCUPANCY SENSOR	SHARED
173	DRESSING	ON/OFF/DIMMER/PRESET	STANDARD	VACANCY SENSOR	SHARED
174	OFFICE	ON/OFF/DIMMER/PRESET	STANDARD	VACANCY SENSOR	PRIVATE
181	ELECTRICAL CLOSET	ON/OFF	-	-	-
182	SUPPLY CLOSET	ON/OFF	-	-	-
183	WOMEN'S RESTROOM	ON/OFF	-	VACANCY SENSOR	PRIVATE
184	MEN'S RESTROOM	ON/OFF	-	VACANCY SENSOR	PRIVATE
355	CORRIDOR	-	CIRCULATION	OCCUPANCY SENSOR	PUBLIC
X1-101	STAIR A	-	-	OCCUPANCY SENSOR	PUBLIC
X1-102	STAIR B	-	-	OCCUPANCY SENSOR	PUBLIC
XB1-106	Space				
200A	CORRIDOR	-	CIRCULATION	OCCUPANCY SENSOR	PUBLIC
200B	CORRIDOR	-	CIRCULATION	OCCUPANCY SENSOR	PUBLIC
200B-1	CORRIDOR-1	-	CIRCULATION	OCCUPANCY SENSOR	PUBLIC
200B-2	CORRIDOR-2	-	CIRCULATION	OCCUPANCY SENSOR	PUBLIC
201	CENTRAL STAIR	-	-	OCCUPANCY SENSOR	PUBLIC
205	STORAGE	ON/OFF/DIMMER/PRESET	STANDARD	VACANCY SENSOR	PRIVATE
207	WELLNESS ROOM	ON/OFF/DIMMER/PRESET	STANDARD	VACANCY SENSOR	PRIVATE
208	BREAKROOM	ON/OFF/DIMMER/PRESET	STANDARD	VACANCY SENSOR	SHARED
209	ELECTRICAL CLOSET	ON/OFF	-	-	-
210	OUTREACH OPEN OFFICE	ON/OFF/DIMMER/MULTI-ZONE/ PRESET	STANDARD	OCCUPANCY SENSOR	SHARED
211	OFFICE	ON/OFF/DIMMER/PRESET	STANDARD	VACANCY SENSOR	PRIVATE
212	OFFICE	ON/OFF/DIMMER/PRESET	STANDARD	VACANCY SENSOR	PRIVATE
213	OFFICE	ON/OFF/DIMMER/PRESET	STANDARD	VACANCY SENSOR	PRIVATE
214	OFFICE	ON/OFF/DIMMER/PRESET	STANDARD	VACANCY SENSOR	PRIVATE
215	OFFICE	ON/OFF/DIMMER/PRESET	STANDARD	VACANCY SENSOR	PRIVATE
216	OFFICE	ON/OFF/DIMMER/PRESET	STANDARD	VACANCY SENSOR	PRIVATE
218	EXECUTIVE OPEN OFFICE	ON/OFF/DIMMER/MULTI-ZONE/ PRESET	STANDARD	OCCUPANCY SENSOR	SHARED
219	TELECOM	ON/OFF	-	-	-
220	CONFERENCE ROOM	MULTI-SCENE/MULTI-ZONE/DIMMER	CONFERENCE ROOM	OCCUPANCY SENSOR	PRIVATE
221	STORAGE	ON/OFF/DIMMER/PRESET	STANDARD	VACANCY SENSOR	PRIVATE
222	OFFICE	ON/OFF/DIMMER/PRESET	STANDARD	VACANCY SENSOR	PRIVATE
223	OFFICE	ON/OFF/DIMMER/PRESET	STANDARD	VACANCY SENSOR	PRIVATE
224	EXECUTIVE CONFERENCE ROOM	MULTI-SCENE/MULTI-ZONE/DIMMER	CONFERENCE ROOM	OCCUPANCY SENSOR	PRIVATE
226	OFFICE	ON/OFF/DIMMER/PRESET	STANDARD	VACANCY SENSOR	PRIVATE
230	RETAIL STORE	ON/OFF/DIMMER/PRESET	STANDARD	VACANCY SENSOR	SHARED
233	STORAGE	ON/OFF/DIMMER/PRESET	STANDARD	VACANCY SENSOR	SHARED
234	MANAGER'S OFFICE	ON/OFF/DIMMER/PRESET	STANDARD	VACANCY SENSOR	PRIVATE
235	RETAIL OPEN OFFICE	ON/OFF/DIMMER/MULTI-ZONE/ PRESET	STANDARD	OCCUPANCY SENSOR	SHARED
236	OFFICE	ON/OFF/DIMMER/PRESET	STANDARD	VACANCY SENSOR	PRIVATE
241	ELECTRICAL CLOSET	ON/OFF	-	-	-
242	TELECOM	ON/OFF	-	-	-
243	WOMEN'S RESTROOM	ON/OFF	-	VACANCY SENSOR	PRIVATE
244	MEN'S RESTROOM	ON/OFF	-	VACANCY SENSOR	PRIVATE
595	EXISTING ELEVATOR SHAFT				
600	CORRIDOR	-	CIRCULATION	OCCUPANCY SENSOR	PUBLIC
X2-101	STAIR A	-	-	OCCUPANCY SENSOR	PUBLIC
X2-102	STAIR B	-	-	OCCUPANCY SENSOR	PUBLIC
300A	CORRIDOR	-	CIRCULATION	OCCUPANCY SENSOR	PUBLIC
300B	CORRIDOR	-	CIRCULATION	OCCUPANCY SENSOR	PUBLIC
300C	CORRIDOR	-	CIRCULATION	OCCUPANCY SENSOR	PUBLIC
300D	VESTIBULE	-	CIRCULATION	OCCUPANCY SENSOR	PUBLIC
301	CENTRAL STAIR	-	-	OCCUPANCY SENSOR	PUBLIC
302	WAITING AREA	-	-	OCCUPANCY SENSOR	PUBLIC
311	PCR	ON/OFF/DIMMER/PRESET	STANDARD	OCCUPANCY SENSOR	SHARED
312	MECH	ON/OFF/DIMMER/PRESET	STANDARD	OCCUPANCY SENSOR	SHARED
313	WORKSHOP / BROADCAST ENGINEER	ON/OFF/DIMMER/PRESET	STANDARD	OCCUPANCY SENSOR	SHARED
314	SERVER ROOM / MCR	ON/OFF	-	-	-
315	VESTIBULE	-	CIRCULATION	OCCUPANCY SENSOR	PUBLIC
316	ELECTRICAL	ON/OFF	-	-	-
317	TELEVISION STUDIO	ON/OFF/DIMMER/PRESET	STANDARD	OCCUPANCY SENSOR	SHARED
320	OUTREACH OPEN OFFICE	ON/OFF/DIMMER/MULTI-ZONE/ PRESET	STANDARD	OCCUPANCY SENSOR	SHARED
321	OFFICE	ON/OFF/DIMMER/PRESET	STANDARD	VACANCY SENSOR	PRIVATE
322	OFFICE	ON/OFF/DIMMER/PRESET	STANDARD	VACANCY SENSOR	PRIVATE
323	OFFICE	ON/OFF/DIMMER/PRESET	STANDARD	VACANCY SENSOR	PRIVATE
325	TELECOM	ON/OFF	-	-	-
330	IT OPEN OFFICE	ON/OFF/DIMMER/MULTI-ZONE/ PRESET	STANDARD	OCCUPANCY SENSOR	SHARED
331	HUDDLE ROOM	MULTI-SCENE/MULTI-ZONE/DIMMER	CONFERENCE ROOM	OCCUPANCY SENSOR	PRIVATE
332	OFFICE	ON/OFF/DIMMER/PRESET	STANDARD	VACANCY SENSOR	PRIVATE
333	OFFICE	ON/OFF/DIMMER/PRESET	STANDARD	VACANCY SENSOR	PRIVATE
334	COPY / PRINT / MAILROOM	ON/OFF/DIMMER/PRESET	STANDARD	OCCUPANCY SENSOR	SHARED
335	STORAGE	ON/OFF/DIMMER/PRESET	STANDARD	VACANCY SENSOR	PRIVATE
336	BREAKROOM	ON/OFF/DIMMER/PRESET	STANDARD	VACANCY SENSOR	SHARED
337	ELECTRICAL CLOSET	ON/OFF	-	-	-
340	GREEN ROOM	ON/OFF/DIMMER/MULTI-ZONE/ PRESET	STANDARD	OCCUPANCY SENSOR	SHARED
341	PHOTO STUDIO	ON/OFF/DIMMER/PRESET	STANDARD	OCCUPANCY SENSOR	SHARED
342	VIDEO EDITING SUITE	ON/OFF	-	OCCUPANCY SENSOR	SHARED
343	VIDEO EDITING SUITE	ON/OFF/DIMMER/PRESET	STANDARD	VACANCY SENSOR	PRIVATE
344	VIDEO EDITING SUITE	ON/OFF/DIMMER/PRESET	STANDARD	VACANCY SENSOR	PRIVATE
345	VIDEO EDITING SUITE	ON/OFF/DIMMER/PRESET	STANDARD	VACANCY SENSOR	PRIVATE
346	VIDEO CORRIDOR	-	CIRCULATION	OCCUPANCY SENSOR	PUBLIC
350	DIVISION CHIEF	ON/OFF/DIMMER/MULTI-ZONE/ PRESET	STANDARD	OCCUPANCY SENSOR	SHARED
351	TEAM MEETING AREA	MULTI-SCENE/MULTI-ZONE/DIMMER	CONFERENCE ROOM	OCCUPANCY SENSOR	PRIVATE
360	VESTIBULE	-	CIRCULATION	OCCUPANCY SENSOR	PUBLIC
361	ELECTRICAL CLOSET	ON/OFF	-	-	-
362	VIDEO EDITING SUITE	ON/OFF/DIMMER/PRESET	STANDARD	VACANCY SENSOR	PRIVATE
363	WOMEN'S RESTROOM	ON/OFF	-	VACANCY SENSOR	PRIVATE
364	MEN'S RESTROOM	ON/OFF	-	VACANCY SENSOR	PRIVATE
370	MECHANICAL	ON/OFF	-	-	-
598	CENTRAL STAIR	-	-	OCCUPANCY SENSOR	PUBLIC
X3-101	STAIR A	-	-	OCCUPANCY SENSOR	PUBLIC
X3-102	STAIR B	-	-	OCCUPANCY SENSOR	PUBLIC
400	CORRIDOR	-	CIRCULATION	OCCUPANCY SENSOR	PUBLIC
401	CENTRAL STAIR	-	-	OCCUPANCY SENSOR	PUBLIC
402	WAITING AREA	-	-	OCCUPANCY SENSOR	PUBLIC
404	ROOF ACCESS	ON/OFF	-	-	-
410	PRINTING/LAMINATING	ON/OFF/DIMMER/PRESET	STANDARD	OCCUPANCY SENSOR	SHARED
411	SHARED CONFERENCE ROOM	MULTI-SCENE/MULTI-ZONE/DIMMER	CONFERENCE ROOM	OCCUPANCY SENSOR	PRIVATE

LIGHTING CONTROL ROOM SCHEDULE

ROOM#	ROOM NAME	MANUAL CONTROL STATION	DIMMING SCHEME	AUTOMATIC CONTROL TYPE	LIGHTING CONTROL SCHEME
412	EQUIPMENT LOAN	ON/OFF	-	-	-
420	JANITOR'S CLOSET	ON/OFF	-	-	-
421	ELECTRICAL CLOSET	ON/OFF	-	-	-
422	TELECOM	ON/OFF	-	-	-
423	WOMEN'S RESTROOM	ON/OFF	-	VACANCY SENSOR	PRIVATE
424	MEN'S RESTROOM	ON/OFF	-	VACANCY SENSOR	PRIVATE
X4-102	STAIR B	-	-	OCCUPANCY SENSOR	PUBLIC
R101	ELEV MACHINE RM	ON/OFF	-	-	-
R103	ROOF ACCESS SPACE	ON/OFF/DIMMER/PRESET	STANDARD	VACANCY SENSOR	PRIVATE

GENERAL NOTES

1. REFER TO EL703 FOR DIMMING SCHEME AND LIGHTING CONTROL SEQUENCE OF OPERATIONS.

US Army Corps of Engineers ®

MARK	DESCRIPTION	DATE

DESIGNED BY: D. PAXTON
DRAWN BY: D. PAXTON
CHECKED BY: Y. SOLOMON
SUBMITTED BY:

ISSUE DATE: 01 MARCH 2023
SOLICITATION NO.: W912DS-19-R-0014
CONTRACT NO.: W912DS-19-C-0031-L
FILE NUMBER:

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US ARMY CORPS OF ENGINEERS
LINCOLN HALL
WEST POINT, NEW YORK

JACOBS / EWING COLE *A Joint Venture*

BUILDINGS 605/607 RENOVATION - LINCOLN HALL

LIGHTING CONTROL SCHEDULES

SHEET ID

EL702

REVISED RTA SUBMISSION 3/1/2023

LIGHTING - DIMMING SCHEDULE

DIMMING SCHEME	SCENE NUMBER	SCENE NAME	ZONES					
CONFERENCE ROOM	1	FULL	CON1 @ 100%					
	2	VTC	CON1 @ 90%					
	3	MEETING	CON1 @ 60%					
	4	PRESENTATION	CON1 @ 60%					
	OFF	OFF	ALL OFF					
STANDARD	1	ON*	CONTROLLED ZONES @100%					
	2	OFF	CONTROLLED ZONES OFF					
		*WHEN RAISE OR LOWER BUTTON IS ADJUSTED, THE CONTROLLED ZONES RESPOND TO THE RESPECTIVE RAISE OR LOWER COMMAND (DOES NOT APPLY TO SWITCH MODULES).						
CIRCULATION	-	-	CONTROLLED ZONE / CIRCUIT TURNS ON OR OFF BASED ON ASTRONOMIC TIME CLOCK SET FOR WORKING HOURS.					

DIMMING SCHEDULE NOTES:

1. LIGHTING FIXTURES DESIGNATED AS EMERGENCY FIXTURES SHALL DIM OR OTHERWISE OPERATE IN CONJUNCTION WITH NORMAL LIGHTING FIXTURES IN THE SAME ZONE WHEN UNDER NORMAL POWER. UPON LOSS OF NORMAL POWER, THE DESIGNATED EMERGENCY FIXTURES SHALL IMMEDIATELY BE SET TO 100% RATED LAMP OUTPUT REGARDLESS OF SELECTED SCENE. IF FIXTURES ARE IN THE "OFF" SCENE, THEY SHALL AUTOMATICALLY AND IMMEDIATELY TURN ON TO 100% RATED LAMP OUTPUT. WHEN IN "EMERGENCY MODE," VACANCY SENSOR AND DAYLIGHT SENSOR OVERRIDES SHALL BE DISREGARDED AND THE EMERGENCY FIXTURES SHALL OPERATE AT 100% RATED LAMP OUTPUT.
2. EMERGENCY LIGHTING IN PUBLIC AND SHARED SPACES SHALL REMAIN "ON" AND BE USED AS NIGHT-LIGHTS DURING NON-WORK HOURS. DURING NON-WORK HOURS, NIGHT LIGHTS SHALL OPERATE AT 100% RATED LAMP OUTPUT.
3. LIGHTING WITHIN DAYLIT ZONES SHALL BE CONTROLLED AS DEFINED BY ASHRAE/IES 90.1 2013 AND THE CALIFORNIA ENERGY CODE. DAYLIGHT SENSOR WILL ADJUST LIGHT LEVELS TO MAINTAIN 30fc IN OFFICE SPACES, MEASURED AT 30" AFF. FIXTURES LOCATED WITHIN THE DAYLIT ZONE WILL RESPOND TO INPUTS IN CONJUNCTION WITH OTHER LIGHTS IN THE OVERALL ZONE BUT WILL NOT EXCEED THE MAXIMUM LIGHT OUTPUT NECESSARY TO MEET THE MINIMUM FOOTCANDLE REQUIREMENTS. PRIMARY DAYLIT ZONES SHALL DIM TO "OFF" IF MINIMUM OF 30fc IS ACHIEVED BY DAYLIGHT ALONE. PRIMARY AND SECONDARY DAYLIGHT ZONES SHALL BE INDEPENDENTLY CONTROLLED.
4. DO NOT CONNECT EXIT SIGNS TO LIGHTING CONTROL SYSTEM.
5. WORK HOURS ARE DEFINED AS 0600-1800 MONDAY THROUGH FRIDAY EXCLUDING HOLIDAYS.
6. SELECTION OF A SCENE TEMPORARILY OVERRIDES OCCUPANCY/VACANCY SENSOR CONTROL. UPON MANUAL SELECTION OF ANY SCENE, CONTROLLED ZONES WILL BE SET TO THAT SCENE REGARDLESS OF WHETHER SENSORS ASSOCIATED WITH THE ZONES DETECT MOTION.
7. DIMMING ZONES ARE CONTROLLED ONLY BY THE CONTROL STATION WITHIN THE CONTROLLED AREA BOUNDARY.

LIGHTING CONTROL SEQUENCE OF OPERATIONS

OCCUPANCY CONTROL SCHEME	OCCUPANCY STATE	SEQUENCE OF OPERATION DURING WORK HOURS (0600-1800 MON-FRI)	SEQUENCE OF OPERATION DURING NON-WORK HOURS (1800-0600 MON-FRI, ALL DAY SAT-SUN, HOLIDAYS)
		LIGHTING	LIGHTING
PUBLIC	OCCUPIED	CONTROLLED ZONES AT SELECTED OR ADJUSTED VALUE. WHEN NO MOTION IS SENSED AFTER 20 MINUTES, LIGHTS AUTOMATICALLY SET TO "UNOCCUPIED" STATE.	CONTROLLED ZONES AT SELECTED OR ADJUSTED VALUE. WHEN NO MOTION IS SENSED AFTER 1 MINUTE, LIGHTS AUTOMATICALLY SET TO "UNOCCUPIED" STATE.
	UNOCCUPIED	CONTROLLED ZONES DIM TO 50% RATED LAMP OUTPUT. UPON SENSING MOTION, LIGHTS AUTOMATICALLY RETURN TO "OCCUPIED" STATE WITHIN 1 SECOND.	LIGHTING CONNECTED TO NORMAL POWER IN CONTROLLED ZONES IS "OFF." EMERGENCY LIGHTING REMAINS ON AT 100% RATED LAMP OUTPUT. UPON SENSING MOTION, LIGHTS AUTOMATICALLY RETURN TO "OCCUPIED" STATE WITHIN 1 SECOND.
SHARED	OCCUPIED	CONTROLLED ZONES AT SELECTED OR ADJUSTED VALUE. WHEN NO MOTION IS SENSED AFTER 20 MINUTES, LIGHTS AUTOMATICALLY SET TO "UNOCCUPIED" STATE.	CONTROLLED ZONES AT SELECTED OR ADJUSTED VALUE. WHEN NO MOTION IS SENSED AFTER 10 MINUTES, LIGHTS AUTOMATICALLY SET TO "UNOCCUPIED" STATE.
	UNOCCUPIED	CONTROLLED ZONES DIMMED TO 50% OUTPUT. UPON SENSING MOTION, LIGHTS AUTOMATICALLY RETURN TO "OCCUPIED" STATE WITHIN 3 SECONDS. IF "OFF" SCENE WAS SELECTED, MANUAL INPUT IS REQUIRED TO TURN LIGHTS ON.	LIGHTING CONNECTED TO NORMAL POWER IN CONTROLLED ZONES IS "OFF." EMERGENCY LIGHTING REMAINS ON AT 100% OUTPUT. MANUAL INPUT IS REQUIRED TO TURN LIGHTS ON.
PRIVATE	OCCUPIED	CONTROLLED ZONES AT SELECTED OR ADJUSTED VALUE. WHEN NO MOTION IS SENSED AFTER 20 MINUTES, LIGHTS AUTOMATICALLY SET TO "UNOCCUPIED" STATE.	CONTROLLED ZONES AT SELECTED OR ADJUSTED VALUE. WHEN NO MOTION IS SENSED AFTER 10 MINUTES, LIGHTS AUTOMATICALLY SET TO "UNOCCUPIED" STATE.
	UNOCCUPIED	CONTROLLED ZONES ARE "OFF." MANUAL INPUT IS REQUIRED TO TURN LIGHTS ON.	CONTROLLED ZONES ARE "OFF." MANUAL INPUT IS REQUIRED TO TURN LIGHTS ON.

LIGHTING CONTROL SEQUENCE OF OPERATION SCHEDULE NOTES:

1. SENSORS ALONG CONTROLLED AREA BOUNDARIES IN OPEN AREAS SHALL AFFECT LIGHTS IN ADJACENT CONTROL AREAS WITHIN A 20' RADIUS OF THE SENSOR.
2. SELECTING ANY SCENE EXCEPT "OFF" AT WALL STATION SHALL OVERRIDE OCCUPANCY STATE IN THE ASSOCIATED CONTROLLED AREA TO "OCCUPIED."

LIGHTING CONTROL ROOM SCHEDULE - BY ROOM TYPE

ROOM TYPE	MANUAL CONTROL STATION	AUTOMATIC CONTROL TYPE	DIMMING SCHEME	LIGHTING CONTROL SCHEME
BREAK ROOM	ON/OFF/DIMMER/PRESET	VACANCY SENSOR	STANDARD	SHARED
CONFERENCE RM	MULTI-SCENE/MULTI-ZONE/DIMMER	OCCUPANCY SENSOR	CONFERENCE ROOM	PRIVATE
CORRIDOR	-	OCCUPANCY SENSOR	CIRCULATION	PUBLIC
ENTRANCE	ON/OFF	VACANCY SENSOR	-	PUBLIC
LOADING DOCK	ON/OFF	VACANCY SENSOR	-	SHARED
LOBBY/RECEPTION	ON/OFF	OCCUPANCY SENSOR	-	SHARED
MECH/ELEC ROOM	ON/OFF	-	-	-
MULTIPURPOSE RM	ON/OFF/DIMMER/PRESET	OCCUPANCY SENSOR	STANDARD	SHARED
OFFICE - OPEN	ON/OFF/DIMMER/MULTI-ZONE/ PRESET	OCCUPANCY SENSOR	STANDARD	SHARED
OFFICE - PRIVATE	ON/OFF/DIMMER/PRESET	VACANCY SENSOR	STANDARD	PRIVATE
RESTROOM	ON/OFF	VACANCY SENSOR	-	PRIVATE
RETAIL FACILITIES	ON/OFF/DIMMER/PRESET	VACANCY SENSOR	STANDARD	SHARED
ROOF ACCESS	ON/OFF	-	-	-
STAIRWELL	-	OCCUPANCY SENSOR	-	PUBLIC
STORAGE	ON/OFF/DIMMER/PRESET	VACANCY SENSOR	STANDARD	PRIVATE
TELECOM/SERVER ROOM	ON/OFF	-	-	-

US Army Corps of Engineers ®

MARK	DESCRIPTION	DATE

DESIGNED BY: D. PAXTON
DRAWN BY: D. PAXTON
CHECKED BY: Y. SOLOMON
SUBMITTED BY:

ISSUE DATE: 01 MARCH 2023
SOLICITATION NO.: W912DS-19-R-0014
CONTRACT NO.: W912DS-19-C-0031-L
FILE NUMBER:

SIZE: ANSI D
FILE NAME:

US ARMY CORPS OF ENGINEERS
LINCOLN HALL
WEST POINT, NEW YORK

JACOBS / EWING COLE *A Joint Venture*

BUILDINGS 605/607 RENOVATION - LINCOLN HALL

LIGHTING CONTROL SCHEDULES

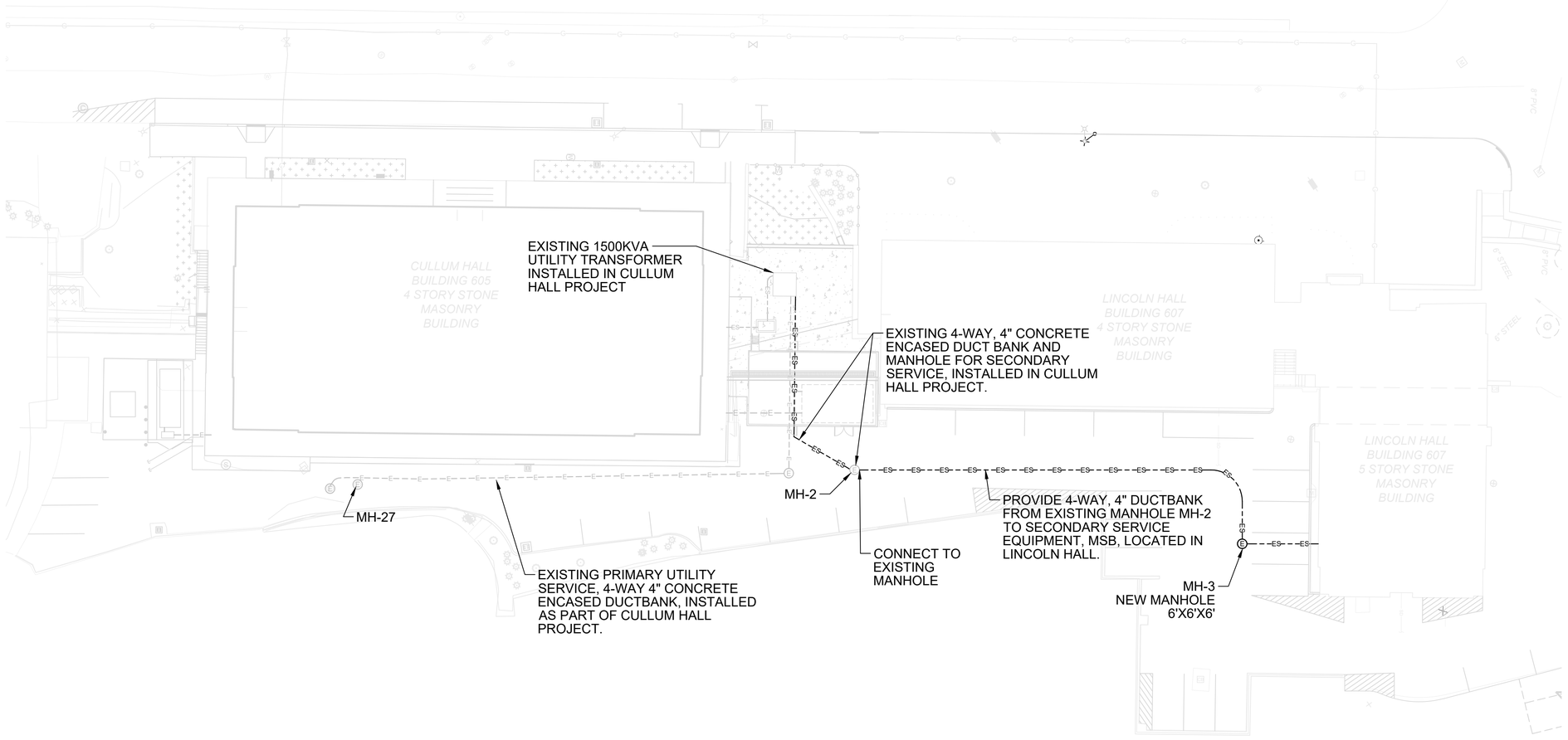
SHEET ID

EL703

REVISED RTA SUBMISSION 3/1/2023

GENERAL SHEET NOTES

1. CONTRACTOR TO PROVIDE RACEWAY FROM EXISTING MAHNOLE MH-2 TO SERVICE EQUIPMENT LOCATED IN LINCOLN HALL MAIN ELECTRICAL ROOM, B3 LEVEL.
2. CONTRACTOR TO PROVIDE SERVICE WIRING FROM EXISTING UTILITY TRANSFORMER TO SERVICE EQUIPMENT, MSB, LOCATED IN LINCOLN HALL. CONTRACTOR TO TERMINATE SECONDARY SERVICE WIRING AT THE UTILITY TRANSFORMER AND AT MSB.
3. UTILITY SERVICE WIRING MUST BE SUBMITTED TO UTILITY COMPANY, CLP, FOR APPROVAL PRIOR TO PROCUREMENT AND INSTALLATION.
4. COORDINATE ALL WORK WITH UTILITY COMPANY.
5. COORDINATE WITH CIVIL UTILITY PLANS.



A1 SITE PLAN
SCALE: 1"=20'

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U.S. ARMY CORPS OF ENGINEERS
WEST POINT, NEW YORK

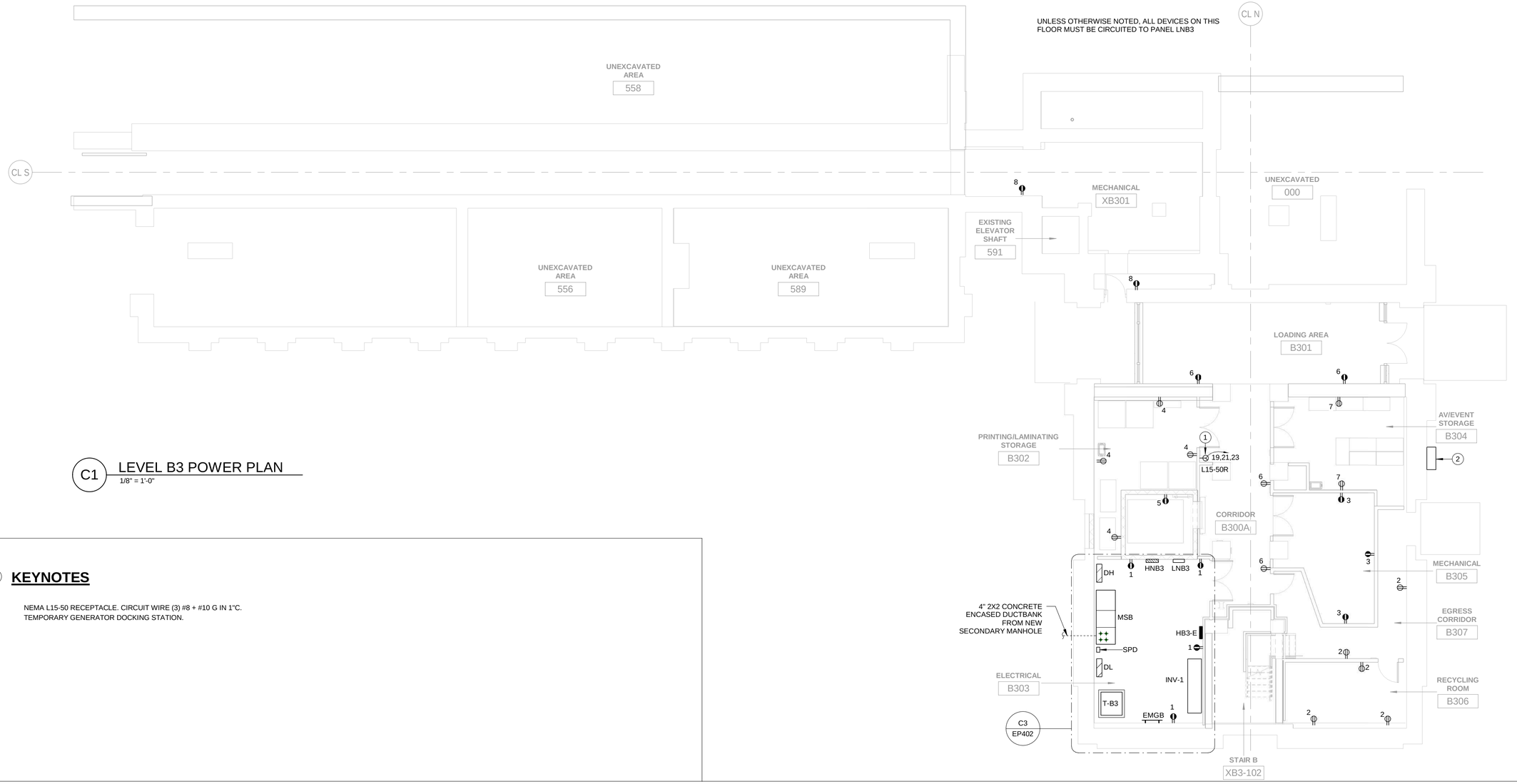
JACOBS / EWING COLE A Joint Venture

BUILDINGS 605/607 RENOVATION - LINCOLN HALL

SITE PLAN

SHEET ID
ES100

REVISED RTA SUBMISSION 3/1/2023



C1 LEVEL B3 POWER PLAN

1/8" = 1'-0"

KEYNOTES

1 NEMA L15-50 RECEPTACLE. CIRCUIT WIRE (3) #8 + #10 G IN 1"C.
2 TEMPORARY GENERATOR DOCKING STATION.

GENERAL NOTES

1. REFER TO DRAWING SHEETS E-001, AND E-002 FOR ELECTRICAL GENERAL NOTES, ABBREVIATIONS, AND SYMBOLS.
2. REFER TO DRAWING SHEETS E-601 AND E-602 FOR ELECTRICAL SINGLE LINE AND RISER DIAGRAMS.
3. PROVIDE EQUIPMENT PAD FOR FLOOR MOUNTED EQUIPMENT. REFER TO STRUCTURAL DRAWINGS FOR EQUIPMENT PAD REQUIREMENTS.

0 4' 8' 16'

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

N

US Army Corps of Engineers ®

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US ARMY CORPS OF ENGINEERS
LINCOLN HALL
WEST POINT, NEW YORK

JACOBS / EWING COLE A Joint Venture

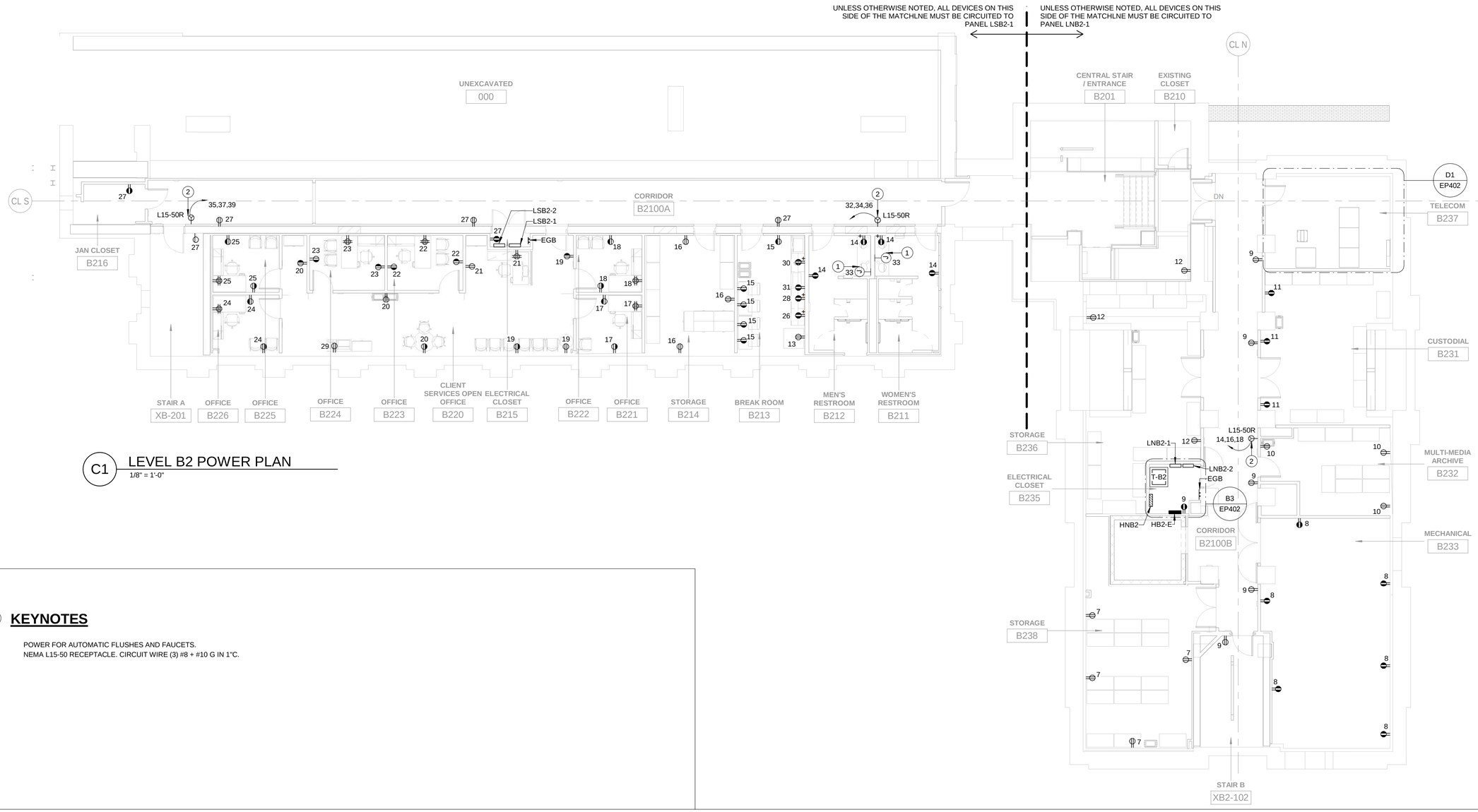
BUILDINGS 605/607 RENOVATION - LINCOLN HALL

LEVEL B3 POWER PLAN

SHEET ID

EP101

REVISED RTA SUBMISSION 3/1/2023



C1 LEVEL B2 POWER PLAN

1/8" = 1'-0"

KEYNOTES

1 POWER FOR AUTOMATIC FLUSHES AND FAUCETS.
2 NEMA L15-50 RECEPTACLE. CIRCUIT WIRE (3) #8 + #10 G IN 1"C.

GENERAL NOTES

1. REFER TO DRAWING SHEETS E-001, AND E-002 FOR ELECTRICAL GENERAL NOTES, ABBREVIATIONS, AND SYMBOLS.
2. REFER TO DRAWING SHEETS E-601 AND E-602 FOR ELECTRICAL SINGLE LINE AND RISER DIAGRAMS.
3. PROVIDE EQUIPMENT PAD FOR FLOOR MOUNTED EQUIPMENT. REFER TO STRUCTURAL DRAWINGS FOR EQUIPMENT PAD REQUIREMENTS.

0 4' 8' 16'
SCALE: 1/8"=1'-0"

N

US Army Corps of Engineers ®

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US ARMY CORPS OF ENGINEERS
LINCOLN HALL
WEST POINT, NEW YORK

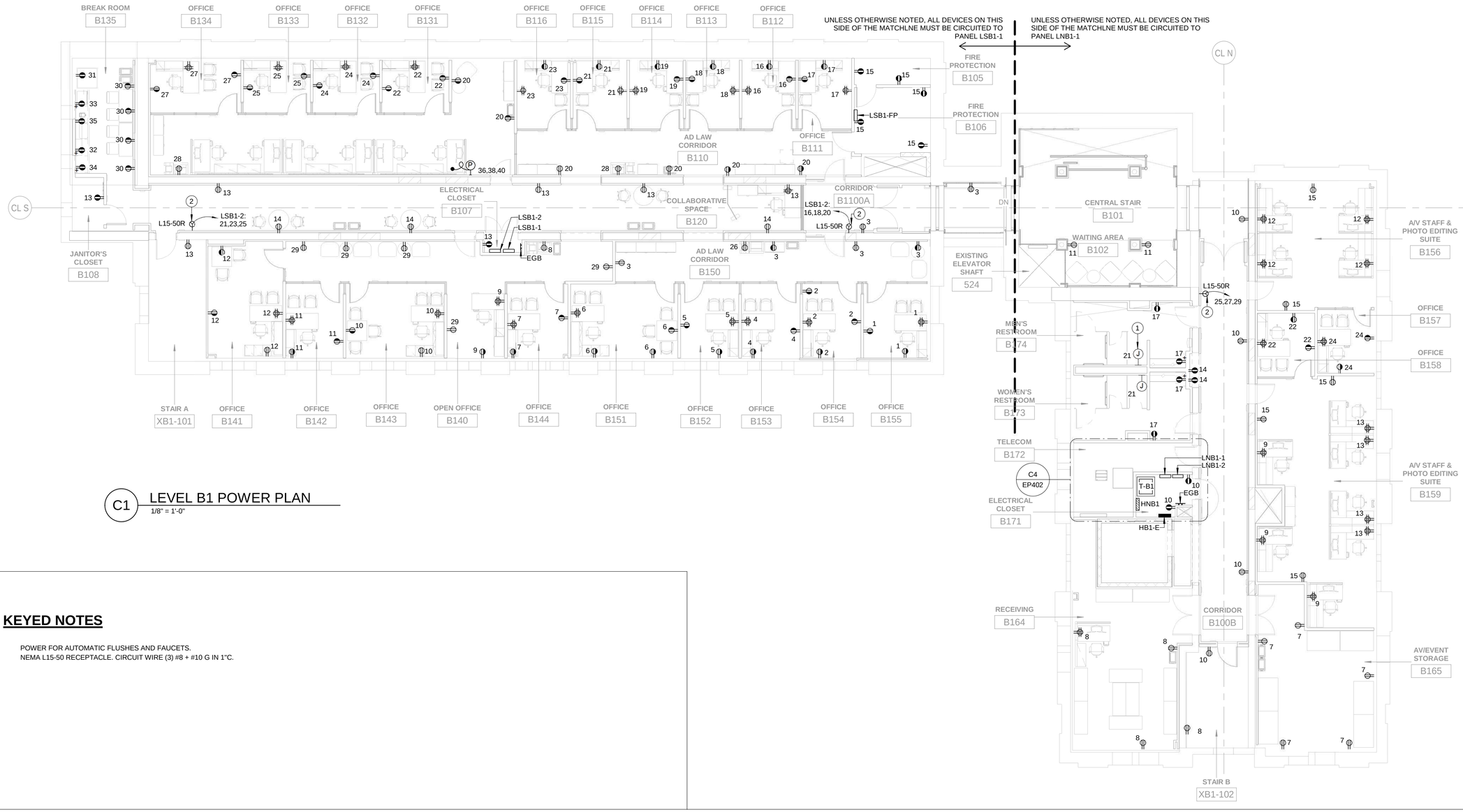
JACOBS / EWING COLE A Joint Venture

BUILDINGS 605/607 RENOVATION - LINCOLN HALL

LEVEL B2 POWER PLAN

SHEET ID
EP102

REVISED RTA SUBMISSION 3/1/2023



C1 LEVEL B1 POWER PLAN

1/8" = 1'-0"

KEYED NOTES

1 POWER FOR AUTOMATIC FLUSHES AND FAUCETS.
2 NEMA L15-50 RECEPTACLE. CIRCUIT WIRE (3) #8 + #10 G IN 1"C.

GENERAL NOTES

1. REFER TO DRAWING SHEETS E-001, AND E-002 FOR ELECTRICAL GENERAL NOTES, ABBREVIATIONS, AND SYMBOLS.
2. REFER TO DRAWING SHEETS E-601 AND E-602 FOR ELECTRICAL SINGLE LINE AND RISER DIAGRAMS.
3. PROVIDE EQUIPMENT PAD FOR FLOOR MOUNTED EQUIPMENT. REFER TO STRUCTURAL DRAWINGS FOR EQUIPMENT PAD REQUIREMENTS.

0 4' 8' 16'
SCALE: 1/8"=1'-0"

N

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WEST POINT, NEW YORK

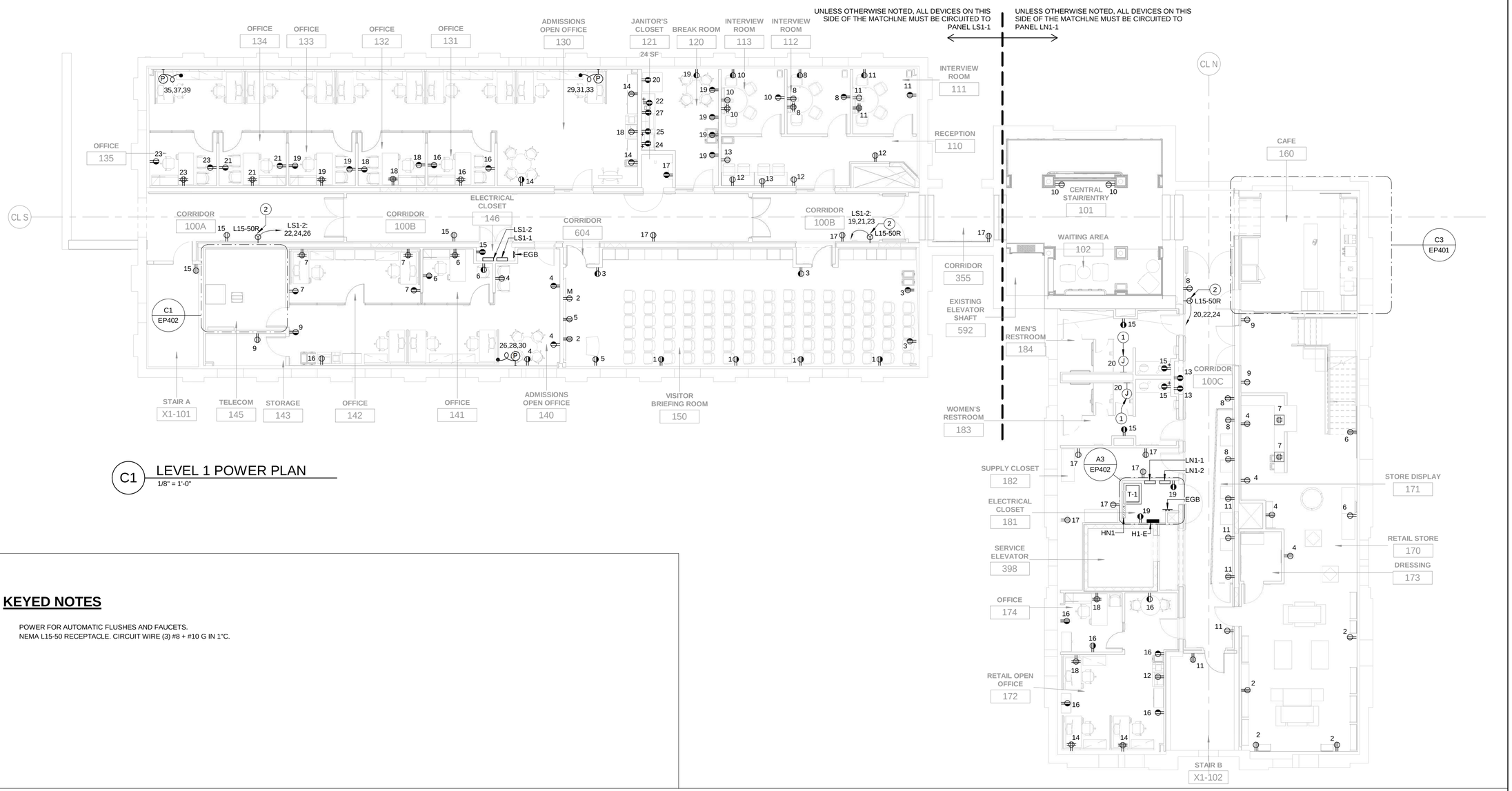
JACOBS / EWING COLE A Joint Venture

BUILDINGS 605/607 RENOVATION - LINCOLN HALL

LEVEL B1 POWER PLAN

SHEET ID
EP103

REVISED RTA SUBMISSION 3/1/2023



C1 LEVEL 1 POWER PLAN

1/8" = 1'-0"

KEYED NOTES

1 POWER FOR AUTOMATIC FLUSHES AND FAUCETS.
2 NEMA L15-50 RECEPTACLE. CIRCUIT WIRE (3) #8 + #10 G IN 1"C.

GENERAL NOTES

1. REFER TO DRAWING SHEETS E-001, AND E-002 FOR ELECTRICAL GENERAL NOTES, ABBREVIATIONS, AND SYMBOLS.
2. REFER TO DRAWING SHEETS E-601 AND E-602 FOR ELECTRICAL SINGLE LINE AND RISER DIAGRAMS.
3. PROVIDE EQUIPMENT PAD FOR FLOOR MOUNTED EQUIPMENT. REFER TO STRUCTURAL DRAWINGS FOR EQUIPMENT PAD REQUIREMENTS.

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

US Army Corps of Engineers ®

MARK	DESCRIPTION	DATE

ISSUE DATE: 01 MARCH 2023
SOLICITATION NO.: W912DS-19-R-0014
CONTRACT NO.: W912DS-19-C-0031-L
FILE NUMBER:

DESIGNED BY: D. PAXTON
DRAWN BY: D. PAXTON
CHECKED BY: Y. SOLOMON
SUBMITTED BY:
SIZE: ANSI 'D'
FILE NAME:

US ARMY CORPS OF ENGINEERS
LINCOLN HALL
WEST POINT, NEW YORK

JACOBS / EWING COLE A Joint Venture

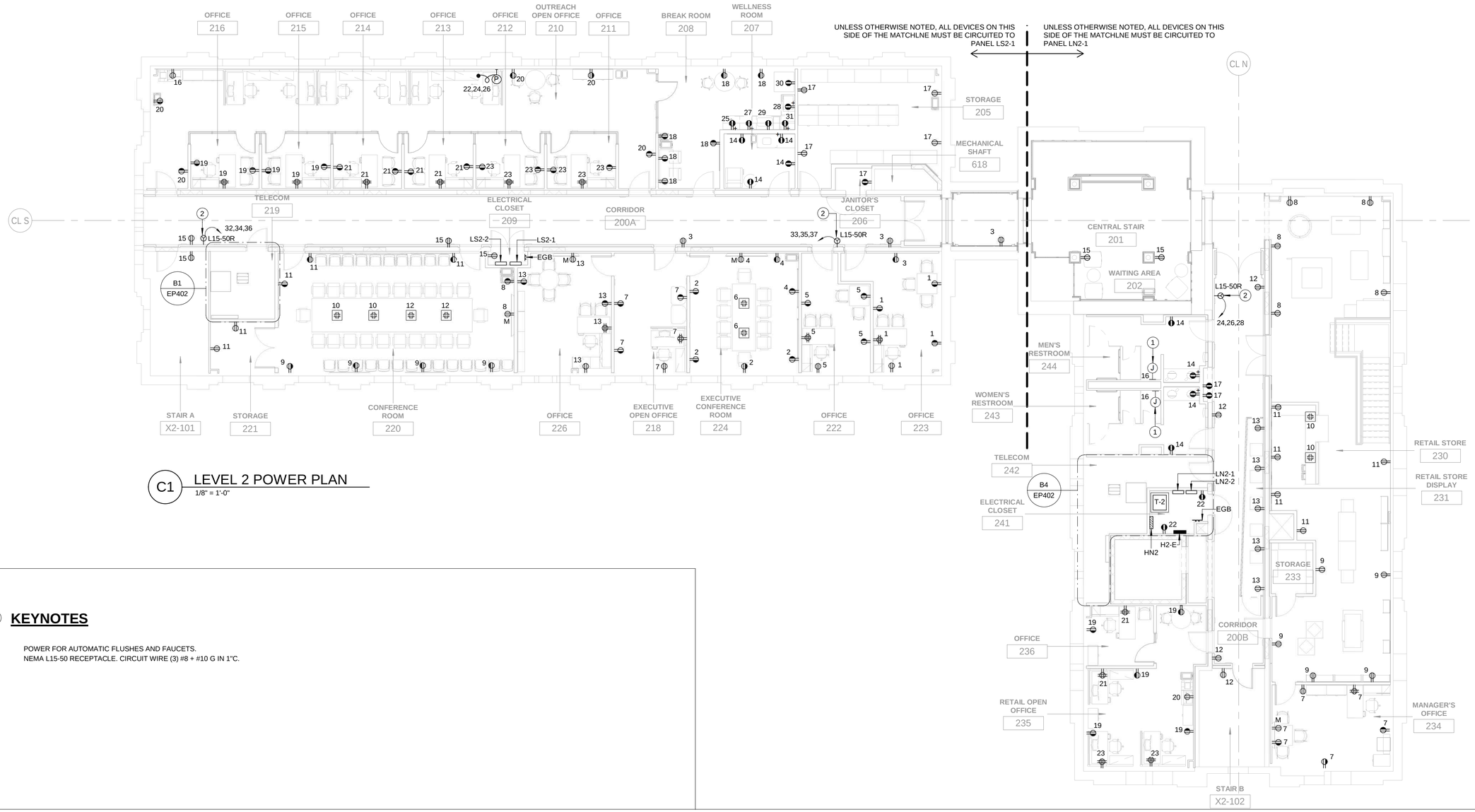
BUILDINGS 605/607 RENOVATION - LINCOLN HALL

LEVEL 1 POWER PLAN

SHEET ID

EP104

REVISED RTA SUBMISSION 3/1/2023



C1 LEVEL 2 POWER PLAN

1/8" = 1'-0"

KEYNOTES

1 POWER FOR AUTOMATIC FLUSHES AND FAUCETS.
2 NEMA L15-50 RECEPTACLE. CIRCUIT WIRE (3) #8 + #10 G IN 1"C.

GENERAL NOTES

1. REFER TO DRAWING SHEETS E-001, AND E-002 FOR ELECTRICAL GENERAL NOTES, ABBREVIATIONS, AND SYMBOLS.
2. REFER TO DRAWING SHEETS E-601 AND E-602 FOR ELECTRICAL SINGLE LINE AND RISER DIAGRAMS.
3. PROVIDE EQUIPMENT PAD FOR FLOOR MOUNTED EQUIPMENT. REFER TO STRUCTURAL DRAWINGS FOR EQUIPMENT PAD REQUIREMENTS.

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

US Army Corps of Engineers ®

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LINCOLN HALL
WEST POINT, NEW YORK

JACOBS / EWING COLE A Joint Venture

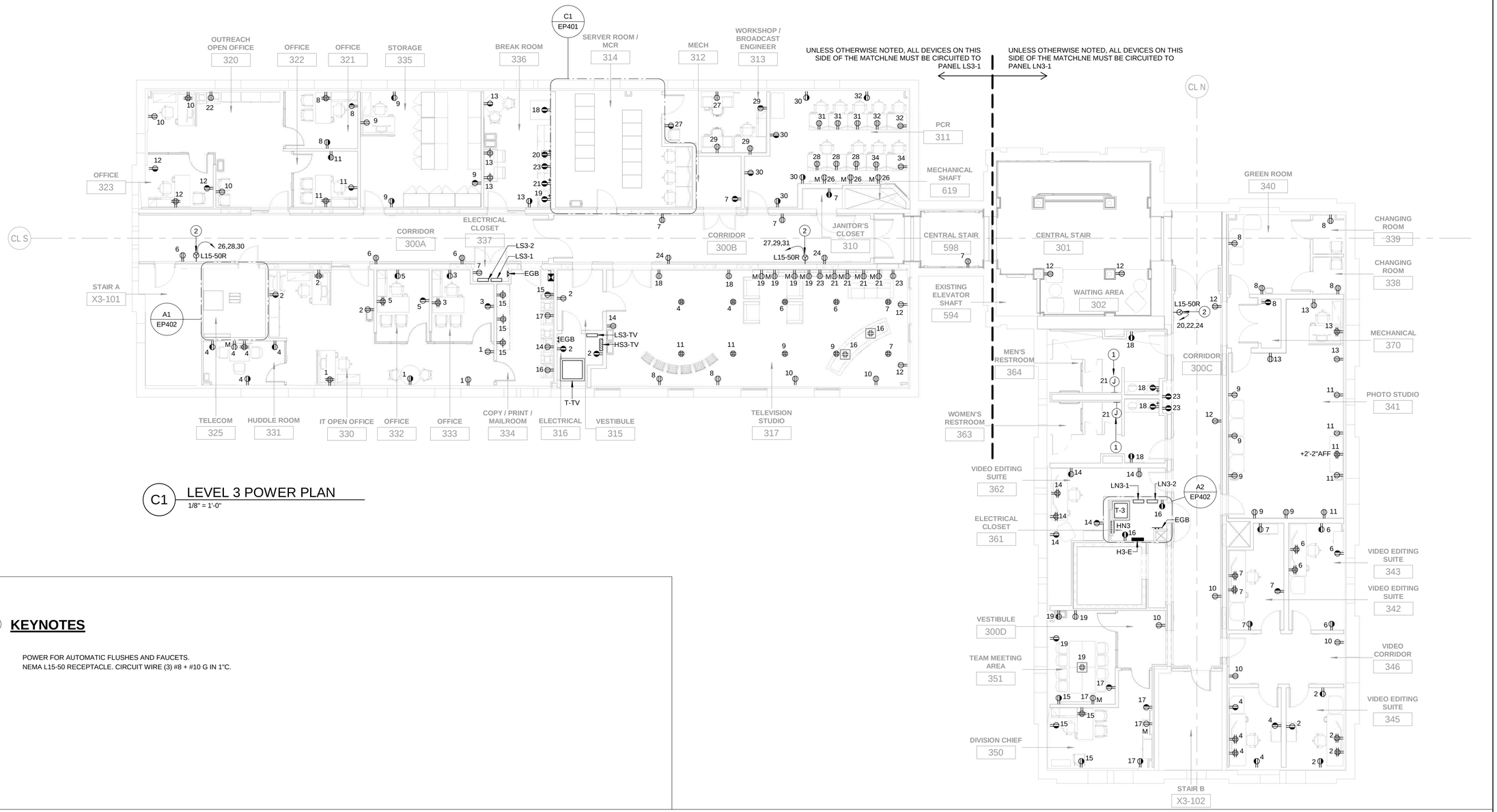
BUILDINGS 605/607 RENOVATION - LINCOLN HALL

LEVEL 2 POWER PLAN

SHEET ID

EP105

REVISED RTA SUBMISSION 3/1/2023



C1 LEVEL 3 POWER PLAN

1/8" = 1'-0"

KEYNOTES

1 POWER FOR AUTOMATIC FLUSHES AND FAUCETS.
2 NEMA L15-50 RECEPTACLE. CIRCUIT WIRE (3) #8 + #10 G IN 1"C.

GENERAL NOTES

1. REFER TO DRAWING SHEETS E-001, AND E-002 FOR ELECTRICAL GENERAL NOTES, ABBREVIATIONS, AND SYMBOLS.
2. REFER TO DRAWING SHEETS E-601 AND E-602 FOR ELECTRICAL SINGLE LINE AND RISER DIAGRAMS.
3. PROVIDE EQUIPMENT PAD FOR FLOOR MOUNTED EQUIPMENT. REFER TO STRUCTURAL DRAWINGS FOR EQUIPMENT PAD REQUIREMENTS.

0 4' 8' 16'

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

N

US Army Corps of Engineers ®

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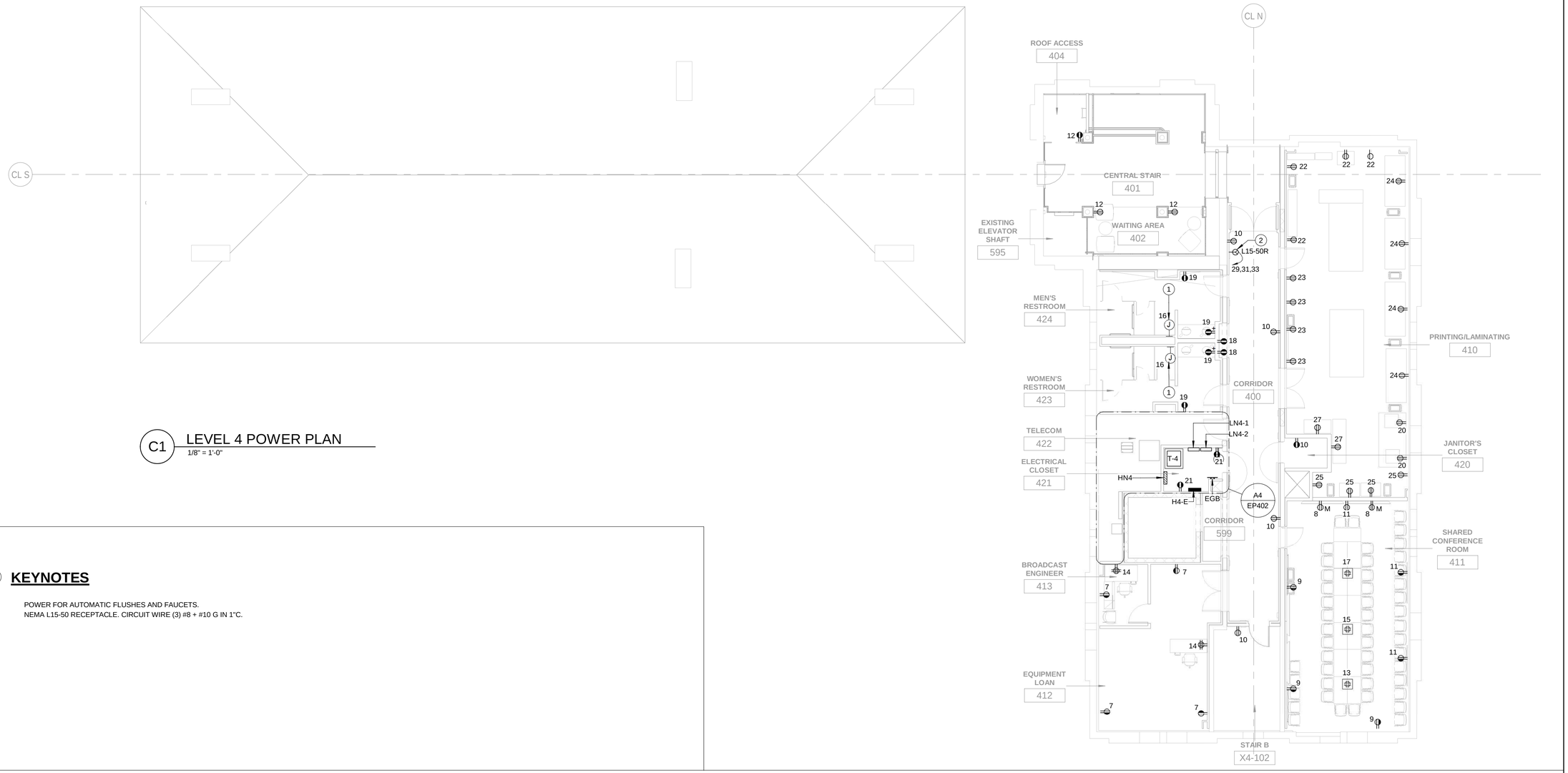
BUILDINGS 605/607 RENOVATION - LINCOLN HALL

LEVEL 3 POWER PLAN

SHEET ID

EP106

REVISED RTA SUBMISSION 3/1/2023



C1 LEVEL 4 POWER PLAN

1/8" = 1'-0"

KEYNOTES

1 POWER FOR AUTOMATIC FLUSHES AND FAUCETS.

2 NEMA L15-50 RECEPTACLE. CIRCUIT WIRE (3) #8 + #10 G IN 1"C.

GENERAL NOTES

1. REFER TO DRAWING SHEETS E-001, AND E-002 FOR ELECTRICAL GENERAL NOTES, ABBREVIATIONS, AND SYMBOLS.
2. REFER TO DRAWING SHEETS E-601 AND E-602 FOR ELECTRICAL SINGLE LINE AND RISER DIAGRAMS.
3. PROVIDE EQUIPMENT PAD FOR FLOOR MOUNTED EQUIPMENT. REFER TO STRUCTURAL DRAWINGS FOR EQUIPMENT PAD REQUIREMENTS.

0 4' 8' 16'

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

N

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BUILDINGS 605/607 RENOVATION - LINCOLN HALL

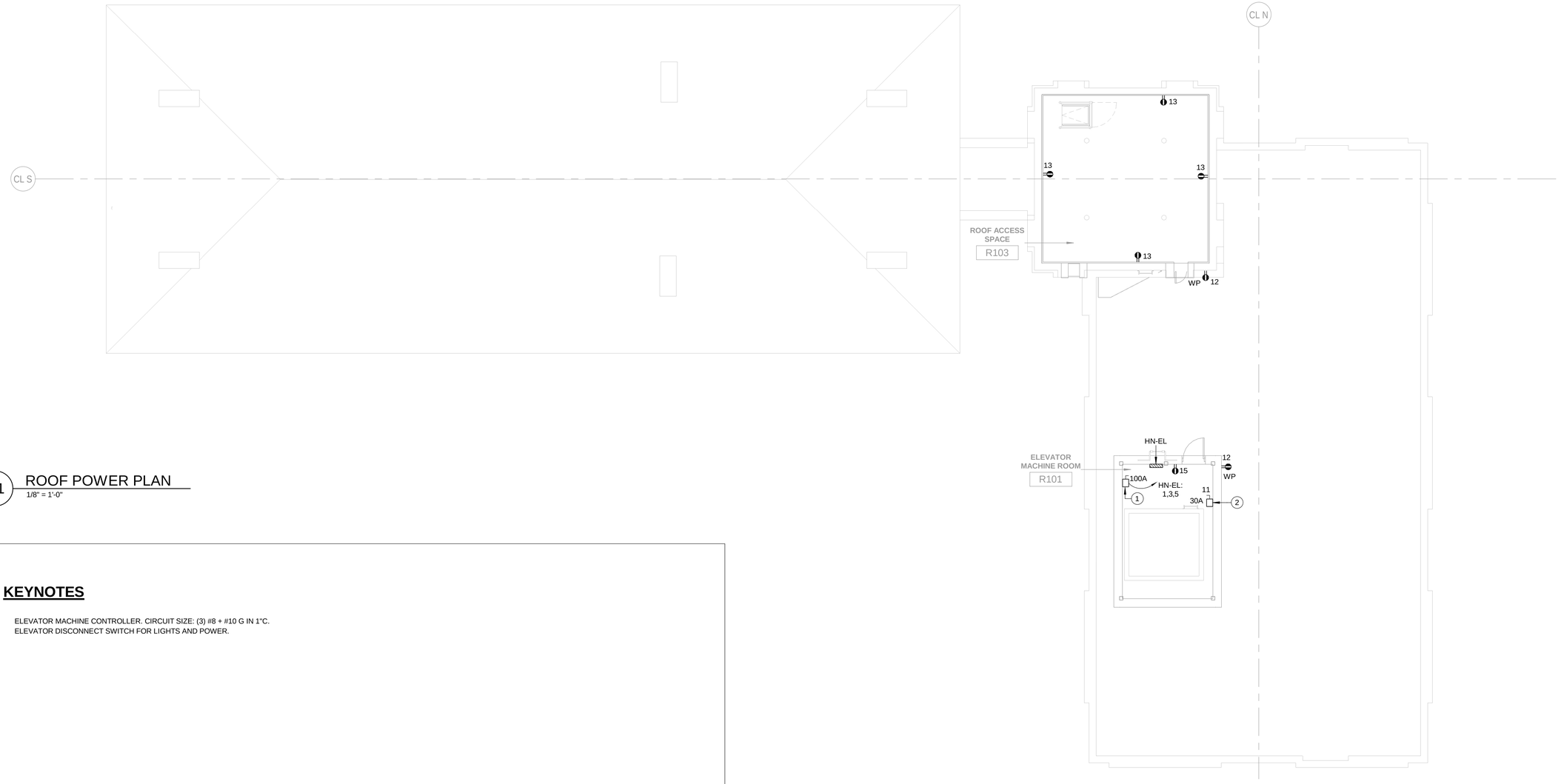
LEVEL 4 POWER PLAN

SHEET ID

EP107

REVISED RTA SUBMISSION 3/1/2023

UNLESS OTHERWISE NOTED, ALL DEVICES ON THIS FLOOR MUST BE CIRCUITED TO PANEL LN4-2



C1 ROOF POWER PLAN

1/8" = 1'-0"

KEYNOTES

1 ELEVATOR MACHINE CONTROLLER. CIRCUIT SIZE: (3) #8 + #10 G IN 1"C.
2 ELEVATOR DISCONNECT SWITCH FOR LIGHTS AND POWER.

GENERAL NOTES

1. REFER TO DRAWING SHEETS E-001, AND E-002 FOR ELECTRICAL GENERAL NOTES, ABBREVIATIONS, AND SYMBOLS.
2. REFER TO DRAWING SHEETS E-601 AND E-602 FOR ELECTRICAL SINGLE LINE AND RISER DIAGRAMS.
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0 4' 8' 16'
SCALE: 1/8"=1'-0"

N

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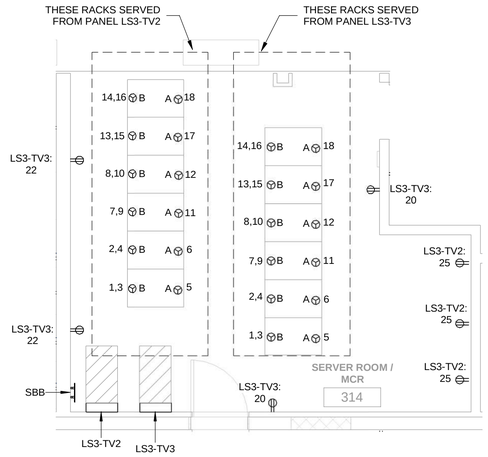
BUILDINGS 605/607 RENOVATION - LINCOLN HALL

ELECTRICAL ROOF POWER PLAN

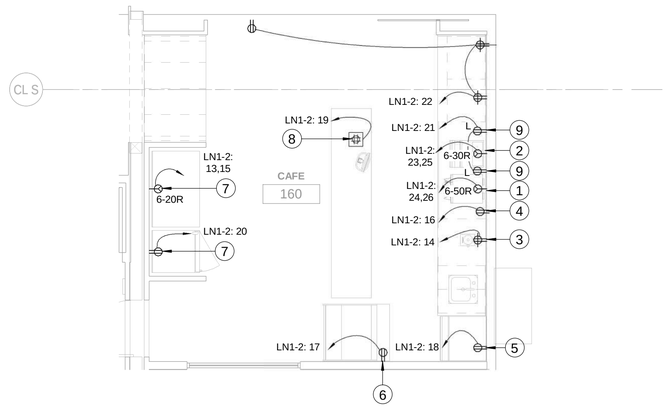
SHEET ID

EP108

REVISED RTA SUBMISSION 3/1/2023



C1 SERVER ROOM - ENLARGED PLAN
1/4" = 1'-0"



C3 CAFE 160- ENLARGED POWER PLAN
1/4" = 1'-0"

GENERAL NOTES

1. REFER TO DRAWING SHEETS E-001, AND E-002 FOR ELECTRICAL GENERAL NOTES, ABBREVIATIONS, AND SYMBOLS.
2. REFER TO DRAWING SHEETS E-601 AND E-602 FOR ELECTRICAL SINGLE LINE AND RISER DIAGRAMS.
3. PROVIDE EQUIPMENT PAD FOR FLOOR MOUNTED EQUIPMENT. REFER TO STRUCTURAL DRAWINGS FOR EQUIPMENT PAD REQUIREMENTS.

(#) KEYNOTES

1. POWER FOR DUAL BREWER. CIRCUIT SIZE: (2) #8 + #10G IN 1"C.
2. POWER FOR ESPRESSO MACHINE. CIRCUIT SIZE: (2) #10 + #10G IN 3/4"C.
3. POWER FOR VITAMIX.
4. POWER FOR UNDER COUNTER REFRIGERATOR.
5. POWER FOR UNDER COUNTER ICE MACHINE. PROVIDE POWER FROM GFCI BREAKER.
6. POWER FOR PASTRY CASE. PROVIDE POWER FROM GFCI BREAKER.
7. POWER FOR TRUE COOLER. PROVIDE POWER FROM GFCI BREAKER.
8. POWER FOR ISLAND RETAIL SYSTEM REGISTER.
9. POWER FOR DIGITAL DISPLAY BOARD +8'-6"AFF.

US Army Corps of Engineers ®

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WEST POINT, NEW YORK

JACOBS / EWING COLE *A Joint Venture*

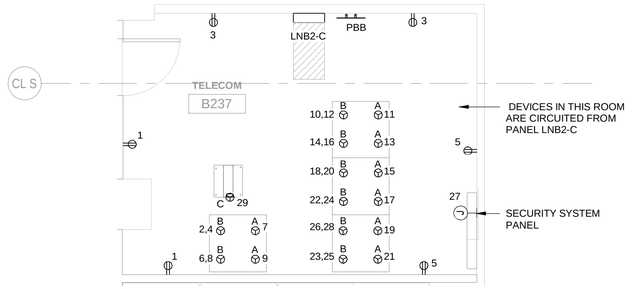
BUILDINGS 605/607 RENOVATION - LINCOLN HALL

ELARGED POWER PLANS

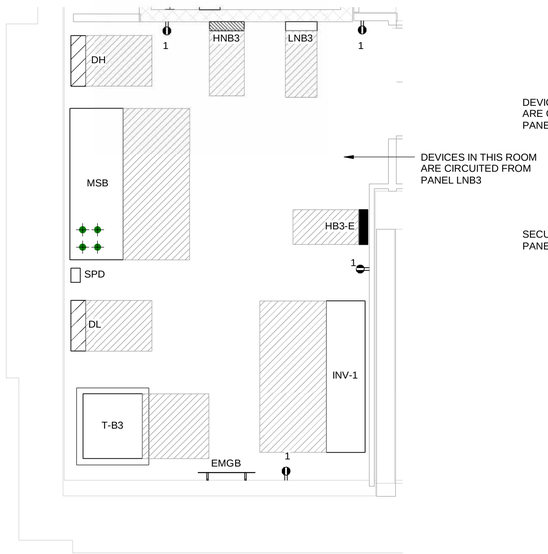
SHEET ID

EP401

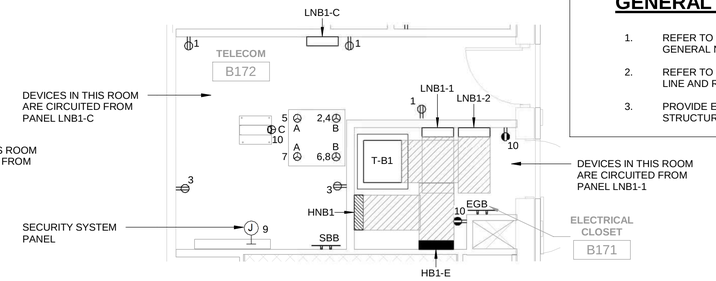
REVISED RTA SUBMISSION 3/1/2023



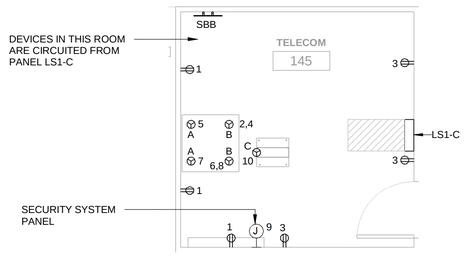
D1 TELECOM ROOM B237 - ENLARGED PLAN
1/4" = 1'-0"



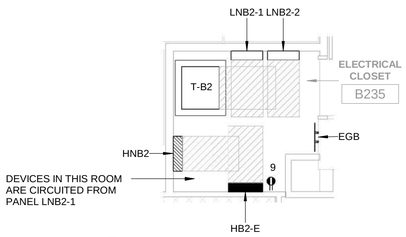
C3 ELECTRICL ROOM B303 - ENLARGED PLAN
1/4" = 1'-0"



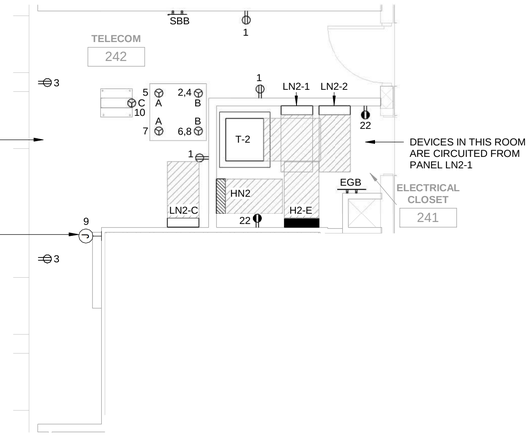
C4 ELECTRICAL ROOM B171 AND TELECOM ROOM B172 - ENLARGED PLAN
1/4" = 1'-0"



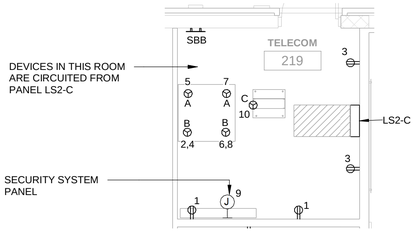
C1 TELECOM ROOM 145 - ENLARGED PLAN
1/4" = 1'-0"



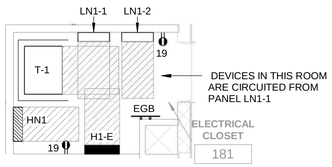
B3 ELECTRICAL ROOM B235 - ENLARGED PLAN
1/4" = 1'-0"



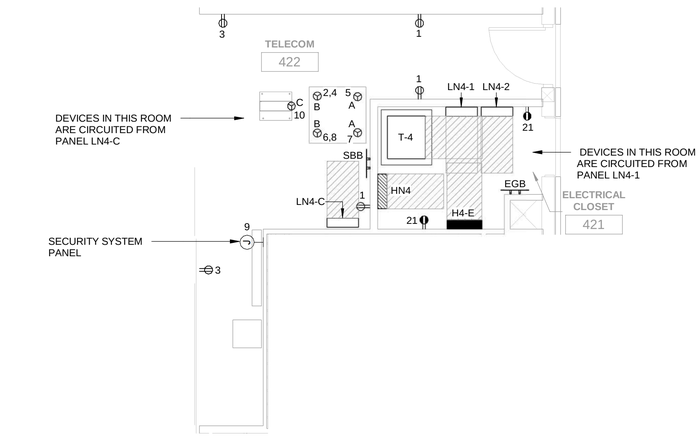
B4 ELECTRICAL ROOM 241 AND TELECOM ROOM 242 ENLARGED PLAN
1/4" = 1'-0"



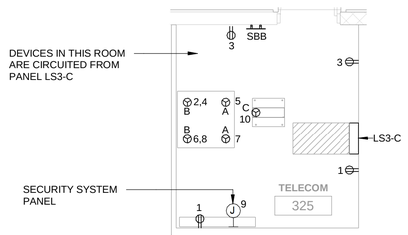
B1 TELECOM ROOM 219 - ENLARGED PLAN
1/4" = 1'-0"



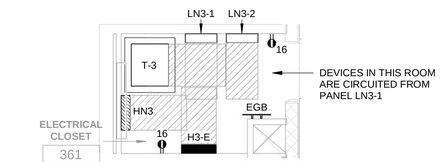
A3 ELECTRICAL ROOM 181 - ENLARGED PLAN
1/4" = 1'-0"



A4 ELECTRICAL ROOM 421 AND TELECOM ROOM 422 - ENLARGED PLAN
1/4" = 1'-0"



A1 TELECOM ROOM 325 ENLARGED PLAN
1/4" = 1'-0"



A2 ELECTRICAL ROOM 361 - ENLARGED PLAN
1/4" = 1'-0"

GENERAL NOTES

1. REFER TO DRAWING SHEETS E-001, AND E-002 FOR ELECTRICAL GENERAL NOTES, ABBREVIATIONS, AND SYMBOLS.
2. REFER TO DRAWING SHEETS E-601 AND E-602 FOR ELECTRICAL SINGLE LINE AND RISER DIAGRAMS.
3. PROVIDE EQUIPMENT PAD FOR FLOOR MOUNTED EQUIPMENT. REFER TO STRUCTURAL DRAWINGS FOR EQUIPMENT PAD REQUIREMENTS.

US Army Corps of Engineers ®

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FILE NAME:

US ARMY CORPS OF ENGINEERS
LINCOLN HALL
WEST POINT, NEW YORK

JACOBS / EWING COLE A Joint Venture

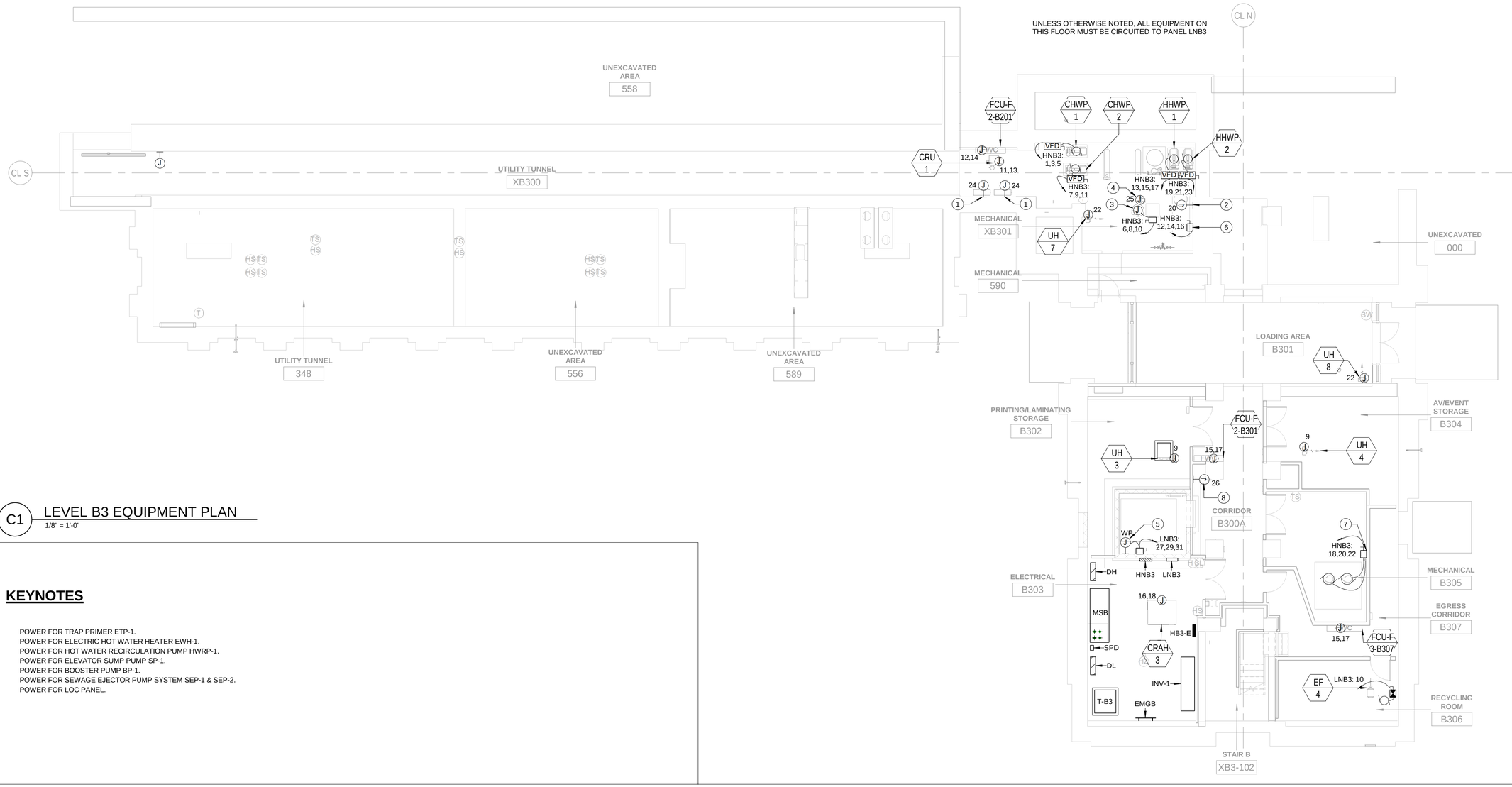
BUILDINGS 605/607 RENOVATION - LINCOLN HALL

ENLARGED POWER PLANS

SHEET ID

EP402

REVISED RTA SUBMISSION 3/1/2023



C1 LEVEL B3 EQUIPMENT PLAN

1/8" = 1'-0"

KEYNOTES

1
2 POWER FOR TRAP PRIMER ETP-1.
3 POWER FOR ELECTRIC HOT WATER HEATER EWH-1.
4 POWER FOR HOT WATER RECIRCULATION PUMP HWRP-1.
5 POWER FOR ELEVATOR SUMP PUMP SP-1.
6 POWER FOR BOOSTER PUMP BP-1.
7 POWER FOR SEWAGE EJECTOR PUMP SYSTEM SEP-1 & SEP-2.
8 POWER FOR LOC PANEL.

GENERAL NOTES

1. REFER TO DRAWING SHEETS E-001, AND E-002 FOR ELECTRICAL GENERAL NOTES, ABBREVIATIONS, AND SYMBOLS.
2. REFER TO DRAWING SHEETS E-601 AND E-602 FOR ELECTRICAL SINGLE LINE AND RISER DIAGRAMS.
3. REFER TO DRAWING SHEET EM701 FOR MECHANICAL POWER CONNECTION SCHEDULE.

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

US Army Corps of Engineers ®

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US ARMY CORPS OF ENGINEERS
LINCOLN HALL
WEST POINT, NEW YORK

JACOBS / EWING COLE A Joint Venture

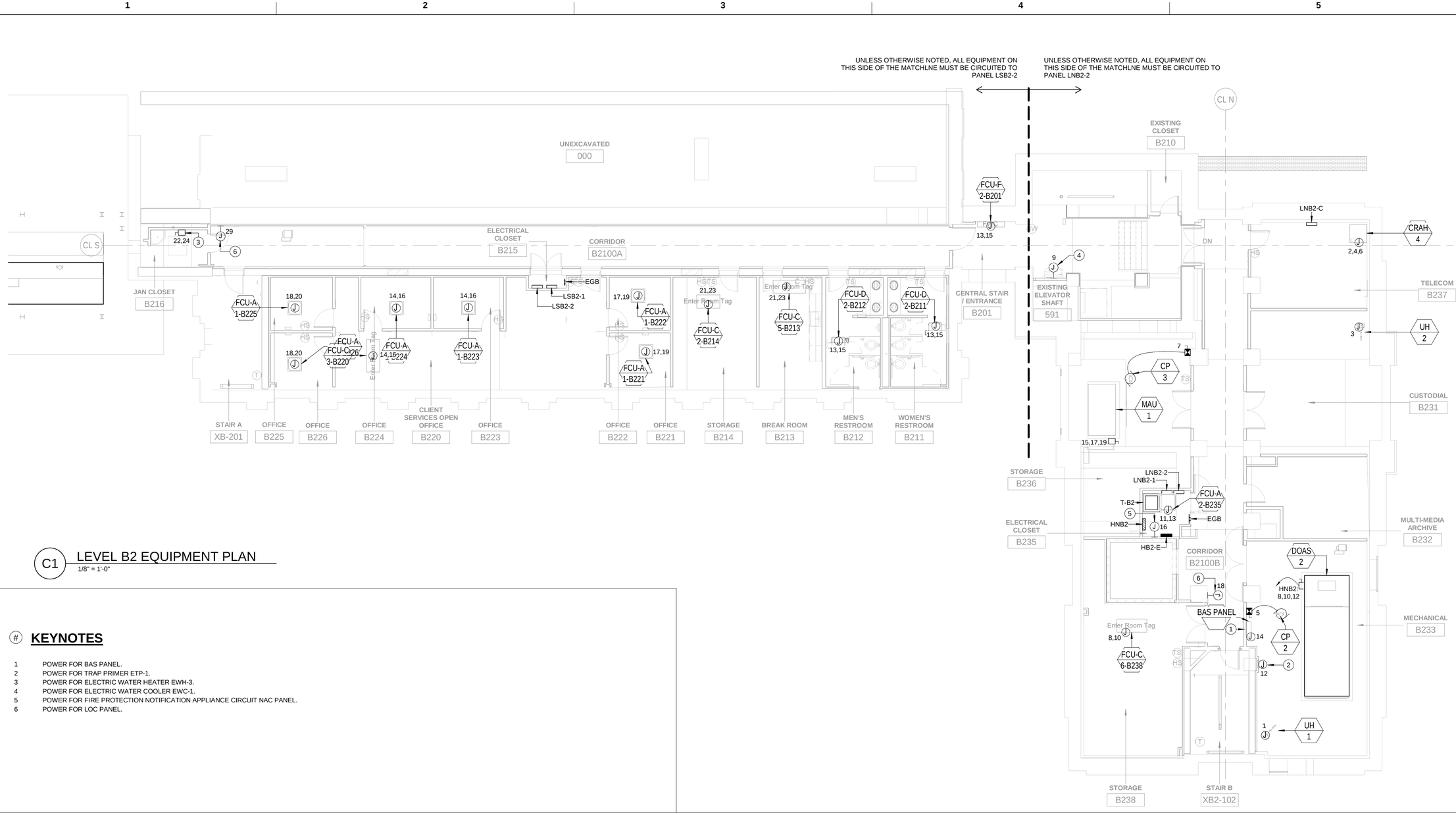
BUILDINGS 605/607 RENOVATION - LINCOLN HALL

ELECTRICAL LEVEL B3 EQUIPMENT PLAN

SHEET ID

EM101

REVISED RTA SUBMISSION 3/1/2023



C1 LEVEL B2 EQUIPMENT PLAN

1/8" = 1'-0"

KEYNOTES

1 POWER FOR BAS PANEL.
2 POWER FOR TRAP PRIMER ETP-1.
3 POWER FOR ELECTRIC WATER HEATER EWH-3.
4 POWER FOR ELECTRIC WATER COOLER EWC-1.
5 POWER FOR FIRE PROTECTION NOTIFICATION APPLIANCE CIRCUIT NAC PANEL.
6 POWER FOR LOC PANEL.

GENERAL NOTES

1. REFER TO DRAWING SHEETS E-001, AND E-002 FOR ELECTRICAL GENERAL NOTES, ABBREVIATIONS, AND SYMBOLS.
2. REFER TO DRAWING SHEETS E-601 AND E-602 FOR ELECTRICAL SINGLE LINE AND RISER DIAGRAMS.
3. REFER TO DRAWING SHEET EM701 FOR MECHANICAL POWER CONNECTION SCHEDULE.

0 4' 8' 16'
SCALE: 1/8"=1'-0"

US Army Corps of Engineers ®

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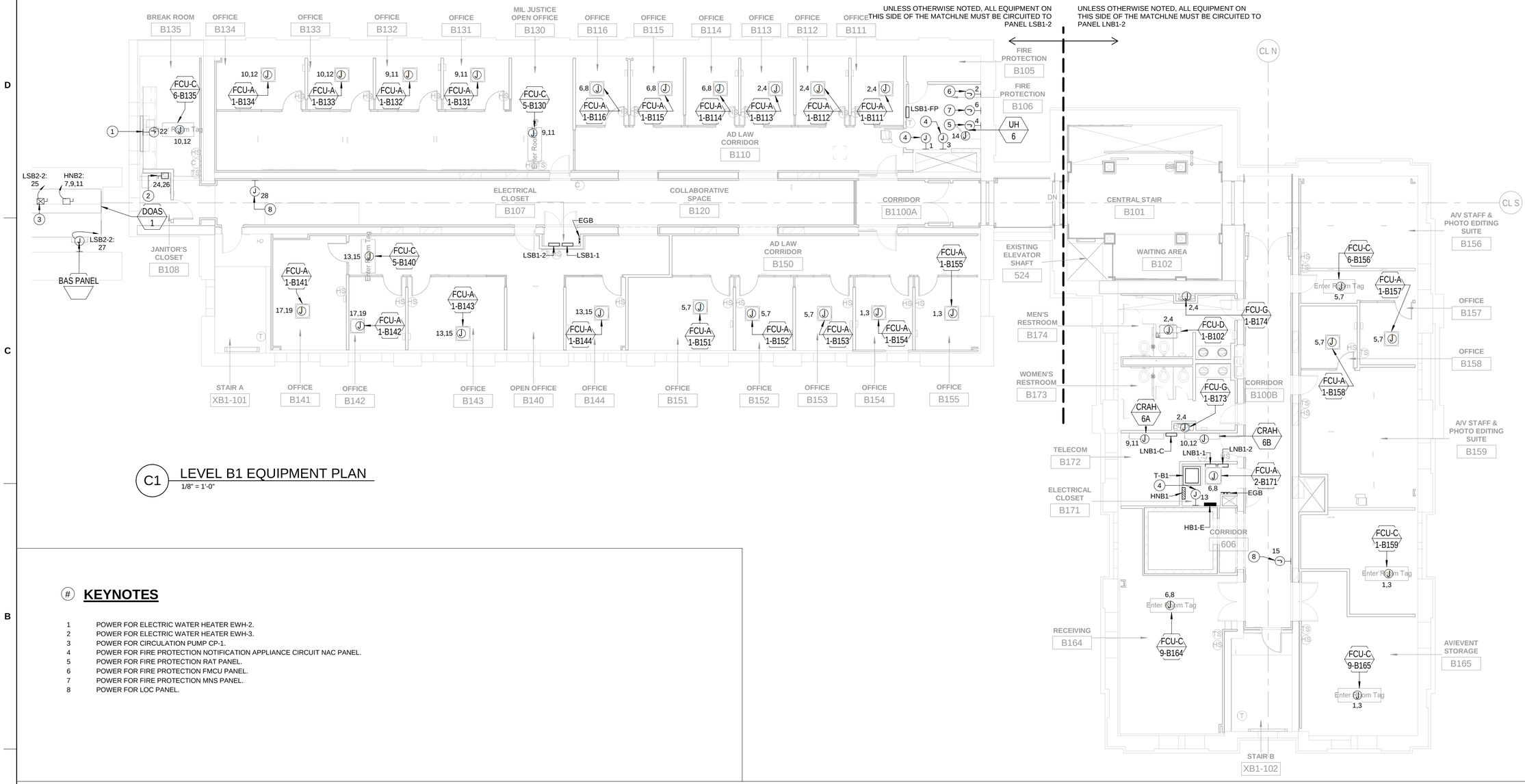
BUILDINGS 605/607 RENOVATION - LINCOLN HALL

ELECTRICAL LEVEL B2 EQUIPMENT PLAN

SHEET ID

EM102

REVISED RTA SUBMISSION 3/1/2023



C1 LEVEL B1 EQUIPMENT PLAN

1/8" = 1'-0"

KEYNOTES

1 POWER FOR ELECTRIC WATER HEATER EWH-2.
2 POWER FOR ELECTRIC WATER HEATER EWH-3.
3 POWER FOR CIRCULATION PUMP CP-1.
4 POWER FOR FIRE PROTECTION NOTIFICATION APPLIANCE CIRCUIT NAC PANEL.
5 POWER FOR FIRE PROTECTION RAT PANEL.
6 POWER FOR FIRE PROTECTION FMCU PANEL.
7 POWER FOR FIRE PROTECTION MNS PANEL.
8 POWER FOR LOC PANEL.

GENERAL NOTES

1. REFER TO DRAWING SHEETS E-001, AND E-002 FOR ELECTRICAL GENERAL NOTES, ABBREVIATIONS, AND SYMBOLS.
2. REFER TO DRAWING SHEETS E-601 AND E-602 FOR ELECTRICAL SINGLE LINE AND RISER DIAGRAMS.
3. REFER TO DRAWING SHEET EM701 FOR MECHANICAL POWER CONNECTION SCHEDULE.

0 4' 8' 16'
SCALE: 1/8"=1'-0"

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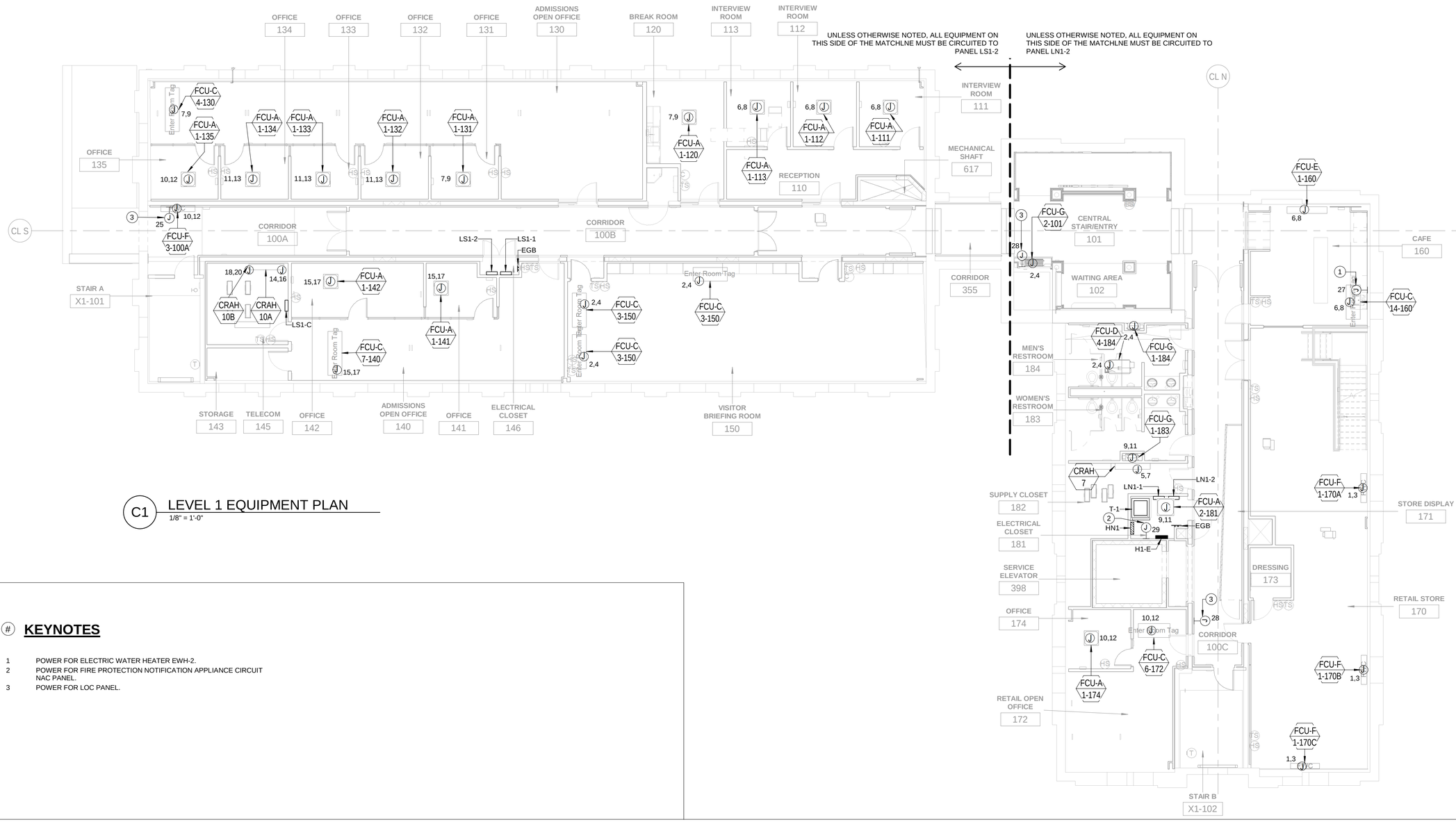
BUILDINGS 605/607 RENOVATION - LINCOLN HALL

ELECTRICAL LEVEL B1 EQUIPMENT PLAN

SHEET ID

EM103

REVISED RTA SUBMISSION 3/1/2023



C1 LEVEL 1 EQUIPMENT PLAN

1/8" = 1'-0"

KEYNOTES

1 POWER FOR ELECTRIC WATER HEATER EWH-2.
2 POWER FOR FIRE PROTECTION NOTIFICATION APPLIANCE CIRCUIT NAC PANEL.
3 POWER FOR LOC PANEL.

GENERAL NOTES

1. REFER TO DRAWING SHEETS E-001, AND E-002 FOR ELECTRICAL GENERAL NOTES, ABBREVIATIONS, AND SYMBOLS.
2. REFER TO DRAWING SHEETS E-601 AND E-602 FOR ELECTRICAL SINGLE LINE AND RISER DIAGRAMS.
3. REFER TO DRAWING SHEET EM701 FOR MECHANICAL POWER CONNECTION SCHEDULE.

0 4' 8' 16'

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

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FILE NAME:

US ARMY CORPS OF ENGINEERS
LINCOLN HALL
WEST POINT, NEW YORK

JACOBS / EWING COLE A Joint Venture

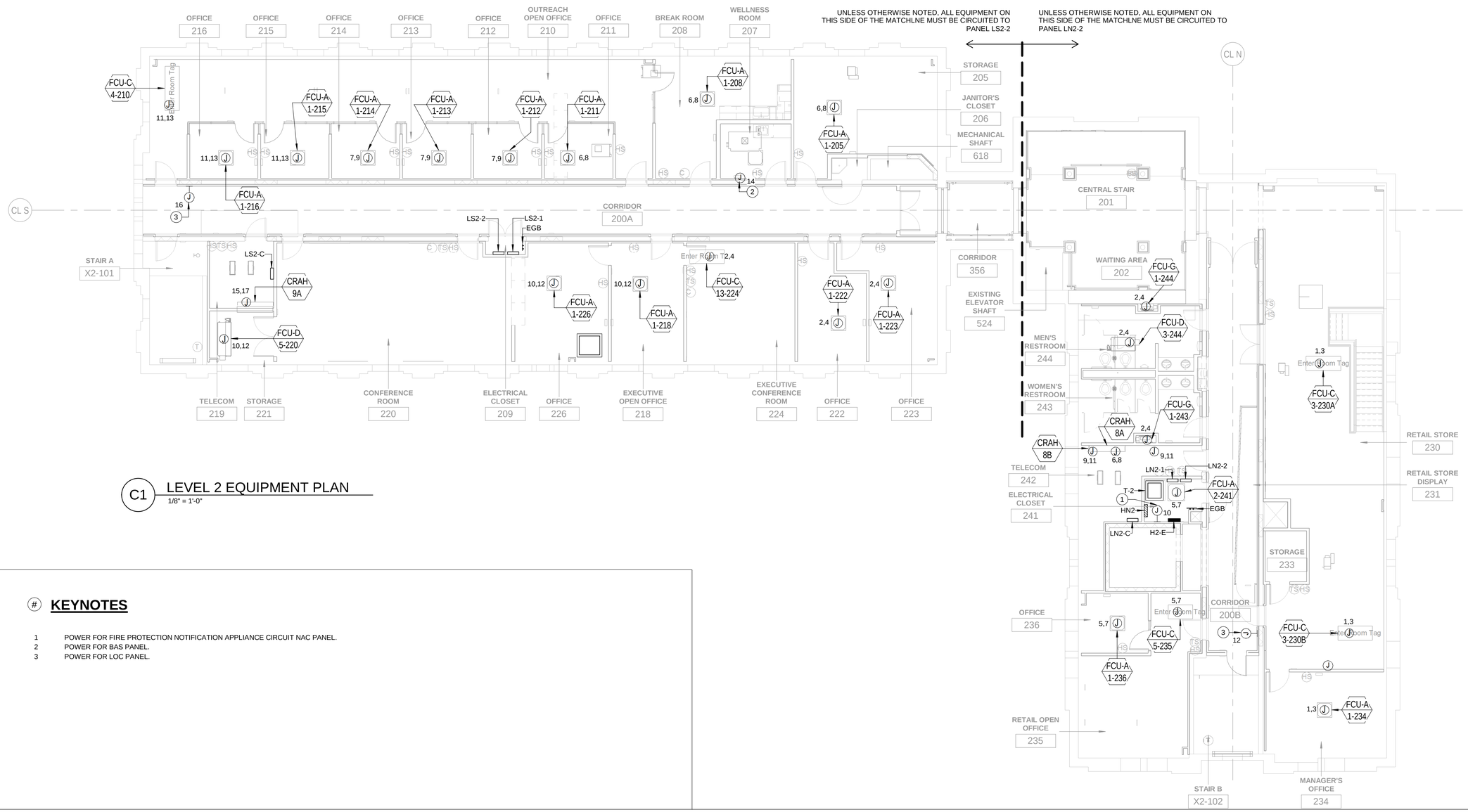
BUILDINGS 605/607 RENOVATION - LINCOLN HALL

ELECTRICAL LEVEL 1 EQUIPMENT PLAN

SHEET ID

EM104

REVISED RTA SUBMISSION 3/1/2023



C1 LEVEL 2 EQUIPMENT PLAN

1/8" = 1'-0"

KEYNOTES

1 POWER FOR FIRE PROTECTION NOTIFICATION APPLIANCE CIRCUIT NAC PANEL.
2 POWER FOR BAS PANEL.
3 POWER FOR LOC PANEL.

GENERAL NOTES

1. REFER TO DRAWING SHEETS E-001, AND E-002 FOR ELECTRICAL GENERAL NOTES, ABBREVIATIONS, AND SYMBOLS.
2. REFER TO DRAWING SHEETS E-601 AND E-602 FOR ELECTRICAL SINGLE LINE AND RISER DIAGRAMS.
3. REFER TO DRAWING SHEET EM701 FOR MECHANICAL POWER CONNECTION SCHEDULE.

0 4' 8' 16'

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

N

US Army Corps of Engineers ®

MARK	DESCRIPTION	DATE

DESIGNED BY: D. PAXTON
DRAWN BY: D. PAXTON
CHECKED BY: Y. SOLOMON
SUBMITTED BY:
ISSUE DATE: 01 MARCH 2023
SOLICITATION NO.: W912DS-19-R-0014
CONTRACT NO.: W912DS-19-C-0031-L
FILE NUMBER:
SIZE: ANSI 'D'
FILE NAME:

US ARMY CORPS OF ENGINEERS
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WEST POINT, NEW YORK

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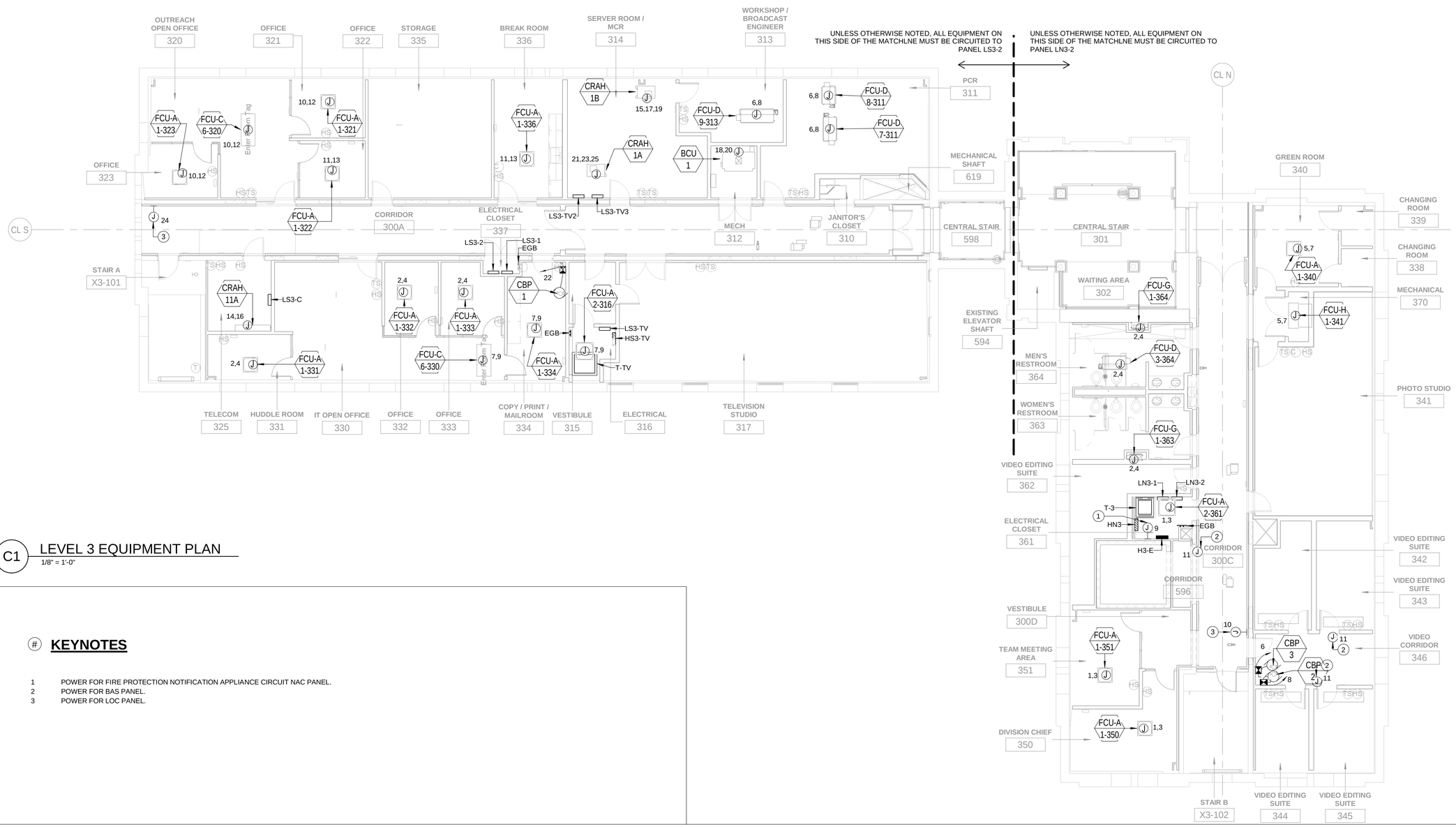
BUILDINGS 605/607 RENOVATION - LINCOLN HALL

ELECTRICAL LEVEL 2 EQUIPMENT PLAN

SHEET ID

EM105

REVISED RTA SUBMISSION 3/1/2023



C1 LEVEL 3 EQUIPMENT PLAN

1/8" = 1'-0"

KEYNOTES

1 POWER FOR FIRE PROTECTION NOTIFICATION APPLIANCE CIRCUIT NAC PANEL.
2 POWER FOR BAS PANEL.
3 POWER FOR LOC PANEL.

GENERAL NOTES

1. REFER TO DRAWING SHEETS E-001, AND E-002 FOR ELECTRICAL GENERAL NOTES, ABBREVIATIONS, AND SYMBOLS.
2. REFER TO DRAWING SHEETS E-601 AND E-602 FOR ELECTRICAL SINGLE LINE AND RISER DIAGRAMS.
3. REFER TO DRAWING SHEET EM701 FOR MECHANICAL POWER CONNECTION SCHEDULE.

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

US Army Corps of Engineers ®

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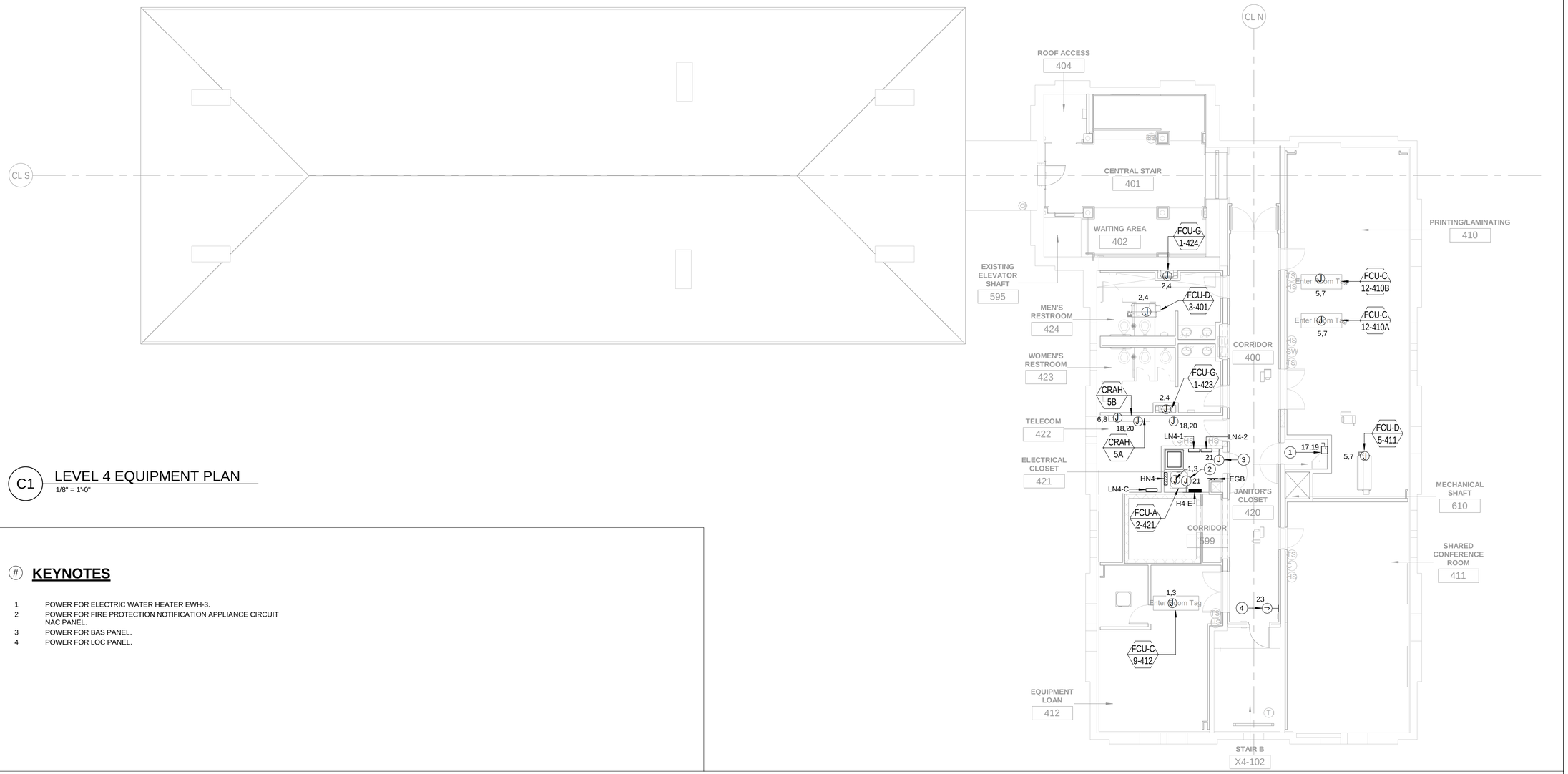
BUILDINGS 605/607 RENOVATION - LINCOLN HALL

ELECTRICAL LEVEL 3 EQUIPMENT PLAN

SHEET ID

EM106

REVISED RTA SUBMISSION 3/1/2023



C1 LEVEL 4 EQUIPMENT PLAN

1/8" = 1'-0"

KEYNOTES

1 POWER FOR ELECTRIC WATER HEATER EWH-3.
2 POWER FOR FIRE PROTECTION NOTIFICATION APPLIANCE CIRCUIT NAC PANEL.
3 POWER FOR BAS PANEL.
4 POWER FOR LOC PANEL.

GENERAL NOTES

1. REFER TO DRAWING SHEETS E-001, AND E-002 FOR ELECTRICAL GENERAL NOTES, ABBREVIATIONS, AND SYMBOLS.
2. REFER TO DRAWING SHEETS E-601 AND E-602 FOR ELECTRICAL SINGLE LINE AND RISER DIAGRAMS.
3. REFER TO DRAWING SHEET EM701 FOR MECHANICAL POWER CONNECTION SCHEDULE.

0 4' 8' 16'

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

N

US Army Corps of Engineers ®

MARK	DESCRIPTION	DATE

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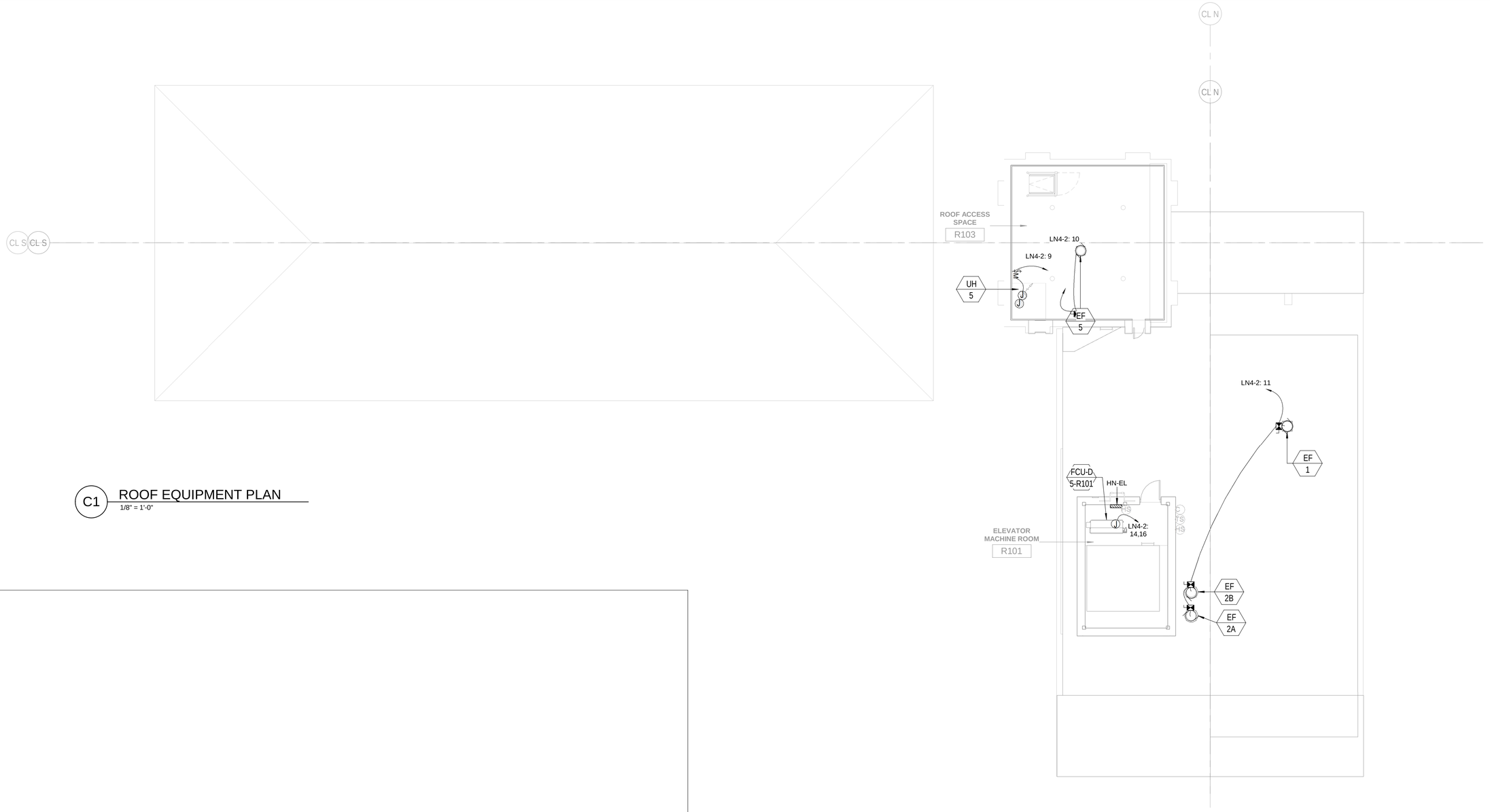
BUILDINGS 605/607 RENOVATION - LINCOLN HALL

ELECTRICAL LEVEL 4 EQUIPMENT PLAN

SHEET ID

EM107

REVISED RTA SUBMISSION 3/1/2023



C1 ROOF EQUIPMENT PLAN

1/8" = 1'-0"

GENERAL NOTES

1. REFER TO DRAWING SHEETS E-001, AND E-002 FOR ELECTRICAL GENERAL NOTES, ABBREVIATIONS, AND SYMBOLS.
2. REFER TO DRAWING SHEETS E-601 AND E-602 FOR ELECTRICAL SINGLE LINE AND RISER DIAGRAMS.
3. REFER TO DRAWING SHEET EM701 FOR MECHANICAL POWER CONNECTION SCHEDULE.

0 4' 8' 16'

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

N

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BUILDINGS 605/607 RENOVATION - LINCOLN HALL

ELECTRICAL ROOF EQUIPMENT PLAN

SHEET ID

EM108

REVISED RTA SUBMISSION 3/1/2023

FAN COIL UNIT - CONNECTION SCHEDULE

FCU #	TYPE	FCU ID	VOLTAGE	FLA	PHASE	DISCONNECT/STARTER	WIRE SIZE
1-111	FCU-A	FCU-A-1-111	208 V	0.4 A	1	DISCONNECT INTEGRAL TO UNIT	2 - #12 + #12G IN 3/4"C
1-112	FCU-A	FCU-A-1-112	208 V	0.4 A	1	DISCONNECT INTEGRAL TO UNIT	2 - #12 + #12G IN 3/4"C
1-113	FCU-A	FCU-A-1-113	208 V	0.4 A	1	DISCONNECT INTEGRAL TO UNIT	2 - #12 + #12G IN 3/4"C
1-120	FCU-A	FCU-A-1-120	208 V	0.4 A	1	DISCONNECT INTEGRAL TO UNIT	2 - #12 + #12G IN 3/4"C
1-131	FCU-A	FCU-A-1-131	208 V	0.4 A	1	DISCONNECT INTEGRAL TO UNIT	2 - #12 + #12G IN 3/4"C
1-132	FCU-A	FCU-A-1-132	208 V	0.4 A	1	DISCONNECT INTEGRAL TO UNIT	2 - #12 + #12G IN 3/4"C
1-133	FCU-A	FCU-A-1-133	208 V	0.4 A	1	DISCONNECT INTEGRAL TO UNIT	2 - #12 + #12G IN 3/4"C
1-134	FCU-A	FCU-A-1-134	208 V	0.4 A	1	DISCONNECT INTEGRAL TO UNIT	2 - #12 + #12G IN 3/4"C
1-135	FCU-A	FCU-A-1-135	208 V	0.4 A	1	DISCONNECT INTEGRAL TO UNIT	2 - #12 + #12G IN 3/4"C
1-141	FCU-A	FCU-A-1-141	208 V	0.4 A	1	DISCONNECT INTEGRAL TO UNIT	2 - #12 + #12G IN 3/4"C
1-142	FCU-A	FCU-A-1-142	208 V	0.4 A	1	DISCONNECT INTEGRAL TO UNIT	2 - #12 + #12G IN 3/4"C
1-160	FCU-E	FCU-E-1-160	208 V	0.6 A	1	DISCONNECT INTEGRAL TO UNIT	2 - #12 + #12G IN 3/4"C
1-170A	FCU-F	FCU-F-1-170A	208 V	1.4 A	1	DISCONNECT INTEGRAL TO UNIT	2 - #12 + #12G IN 3/4"C
1-170B	FCU-F	FCU-F-1-170B	208 V	1.4 A	1	DISCONNECT INTEGRAL TO UNIT	2 - #12 + #12G IN 3/4"C
1-170C	FCU-F	FCU-F-1-170C	208 V	1.4 A	1	DISCONNECT INTEGRAL TO UNIT	2 - #12 + #12G IN 3/4"C
1-174	FCU-A	FCU-A-1-174	208 V	0.4 A	1	DISCONNECT INTEGRAL TO UNIT	2 - #12 + #12G IN 3/4"C
1-183	FCU-G	FCU-G-1-183	208 V	0.3 A	1	DISCONNECT INTEGRAL TO UNIT	2 - #12 + #12G IN 3/4"C
1-184	FCU-G	FCU-G-1-184	208 V	0.3 A	1	DISCONNECT INTEGRAL TO UNIT	2 - #12 + #12G IN 3/4"C
1-205	FCU-A	FCU-A-1-205	208 V	0.4 A	1	DISCONNECT INTEGRAL TO UNIT	2 - #12 + #12G IN 3/4"C
1-208	FCU-A	FCU-A-1-208	208 V	0.4 A	1	DISCONNECT INTEGRAL TO UNIT	2 - #12 + #12G IN 3/4"C
1-208	FCU-A	FCU-A-1-208	208 V	0.4 A	1	DISCONNECT INTEGRAL TO UNIT	2 - #12 + #12G IN 3/4"C
1-211	FCU-A	FCU-A-1-211	208 V	0.4 A	1	DISCONNECT INTEGRAL TO UNIT	2 - #12 + #12G IN 3/4"C
1-212	FCU-A	FCU-A-1-212	208 V	0.4 A	1	DISCONNECT INTEGRAL TO UNIT	2 - #12 + #12G IN 3/4"C
1-213	FCU-A	FCU-A-1-213	208 V	0.4 A	1	DISCONNECT INTEGRAL TO UNIT	2 - #12 + #12G IN 3/4"C
1-214	FCU-A	FCU-A-1-214	208 V	0.4 A	1	DISCONNECT INTEGRAL TO UNIT	2 - #12 + #12G IN 3/4"C
1-215	FCU-A	FCU-A-1-215	208 V	0.4 A	1	DISCONNECT INTEGRAL TO UNIT	2 - #12 + #12G IN 3/4"C
1-216	FCU-A	FCU-A-1-216	208 V	0.4 A	1	DISCONNECT INTEGRAL TO UNIT	2 - #12 + #12G IN 3/4"C
1-218	FCU-A	FCU-A-1-218	208 V	0.4 A	1	DISCONNECT INTEGRAL TO UNIT	2 - #12 + #12G IN 3/4"C
1-222	FCU-A	FCU-A-1-222	208 V	0.4 A	1	DISCONNECT INTEGRAL TO UNIT	2 - #12 + #12G IN 3/4"C
1-223	FCU-A	FCU-A-1-223	208 V	0.4 A	1	DISCONNECT INTEGRAL TO UNIT	2 - #12 + #12G IN 3/4"C
1-226	FCU-A	FCU-A-1-226	208 V	0.4 A	1	DISCONNECT INTEGRAL TO UNIT	2 - #12 + #12G IN 3/4"C
1-234	FCU-A	FCU-A-1-234	208 V	0.4 A	1	DISCONNECT INTEGRAL TO UNIT	2 - #12 + #12G IN 3/4"C
1-236	FCU-A	FCU-A-1-236	208 V	0.4 A	1	DISCONNECT INTEGRAL TO UNIT	2 - #12 + #12G IN 3/4"C
1-243	FCU-G	FCU-G-1-243	208 V	0.3 A	1	DISCONNECT INTEGRAL TO UNIT	2 - #12 + #12G IN 3/4"C
1-244	FCU-G	FCU-G-1-244	208 V	0.3 A	1	DISCONNECT INTEGRAL TO UNIT	2 - #12 + #12G IN 3/4"C
1-321	FCU-A	FCU-A-1-321	208 V	0.4 A	1	DISCONNECT INTEGRAL TO UNIT	2 - #12 + #12G IN 3/4"C
1-322	FCU-A	FCU-A-1-322	208 V	0.4 A	1	DISCONNECT INTEGRAL TO UNIT	2 - #12 + #12G IN 3/4"C
1-323	FCU-A	FCU-A-1-323	208 V	0.4 A	1	DISCONNECT INTEGRAL TO UNIT	2 - #12 + #12G IN 3/4"C
1-331	FCU-A	FCU-A-1-331	208 V	0.4 A	1	DISCONNECT INTEGRAL TO UNIT	2 - #12 + #12G IN 3/4"C
1-332	FCU-A	FCU-A-1-332	208 V	0.4 A	1	DISCONNECT INTEGRAL TO UNIT	2 - #12 + #12G IN 3/4"C
1-333	FCU-A	FCU-A-1-333	208 V	0.4 A	1	DISCONNECT INTEGRAL TO UNIT	2 - #12 + #12G IN 3/4"C
1-334	FCU-A	FCU-A-1-334	208 V	0.4 A	1	DISCONNECT INTEGRAL TO UNIT	2 - #12 + #12G IN 3/4"C
1-336	FCU-A	FCU-A-1-336	208 V	0.4 A	1	DISCONNECT INTEGRAL TO UNIT	2 - #12 + #12G IN 3/4"C
1-340	FCU-A	FCU-A-1-340	208 V	0.4 A	1	DISCONNECT INTEGRAL TO UNIT	2 - #12 + #12G IN 3/4"C
1-341	FCU-H	FCU-H-1-341	208 V	5.6 A	1	DISCONNECT INTEGRAL TO UNIT	2 - #12 + #12G IN 3/4"C
1-350	FCU-A	FCU-A-1-350	208 V	0.4 A	1	DISCONNECT INTEGRAL TO UNIT	2 - #12 + #12G IN 3/4"C
1-351	FCU-A	FCU-A-1-351	208 V	0.4 A	1	DISCONNECT INTEGRAL TO UNIT	2 - #12 + #12G IN 3/4"C
1-363	FCU-G	FCU-G-1-363	208 V	0.3 A	1	DISCONNECT INTEGRAL TO UNIT	2 - #12 + #12G IN 3/4"C
1-364	FCU-G	FCU-G-1-364	208 V	0.3 A	1	DISCONNECT INTEGRAL TO UNIT	2 - #12 + #12G IN 3/4"C
1-413	FCU-A	FCU-A-1-413	208 V	0.4 A	1		
1-423	FCU-G	FCU-G-1-423	208 V	0.3 A	1	DISCONNECT INTEGRAL TO UNIT	2 - #12 + #12G IN 3/4"C
1-424	FCU-G	FCU-G-1-424	208 V	0.3 A	1	DISCONNECT INTEGRAL TO UNIT	2 - #12 + #12G IN 3/4"C
1-B102	FCU-D	FCU-D-1-B102	208 V	1.9 A	1	DISCONNECT INTEGRAL TO UNIT	2 - #12 + #12G IN 3/4"C
1-B111	FCU-A	FCU-A-1-B111	208 V	0.4 A	1	DISCONNECT INTEGRAL TO UNIT	2 - #12 + #12G IN 3/4"C
1-B112	FCU-A	FCU-A-1-B112	208 V	0.4 A	1	DISCONNECT INTEGRAL TO UNIT	2 - #12 + #12G IN 3/4"C
1-B113	FCU-A	FCU-A-1-B113	208 V	0.4 A	1	DISCONNECT INTEGRAL TO UNIT	2 - #12 + #12G IN 3/4"C
1-B114	FCU-A	FCU-A-1-B114	208 V	0.4 A	1	DISCONNECT INTEGRAL TO UNIT	2 - #12 + #12G IN 3/4"C
1-B115	FCU-A	FCU-A-1-B115	208 V	0.4 A	1	DISCONNECT INTEGRAL TO UNIT	2 - #12 + #12G IN 3/4"C
1-B116	FCU-A	FCU-A-1-B116	208 V	0.4 A	1	DISCONNECT INTEGRAL TO UNIT	2 - #12 + #12G IN 3/4"C
1-B131	FCU-A	FCU-A-1-B131	208 V	0.4 A	1	DISCONNECT INTEGRAL TO UNIT	2 - #12 + #12G IN 3/4"C
1-B132	FCU-A	FCU-A-1-B132	208 V	0.4 A	1	DISCONNECT INTEGRAL TO UNIT	2 - #12 + #12G IN 3/4"C
1-B133	FCU-A	FCU-A-1-B133	208 V	0.4 A	1	DISCONNECT INTEGRAL TO UNIT	2 - #12 + #12G IN 3/4"C
1-B134	FCU-A	FCU-A-1-B134	208 V	0.4 A	1	DISCONNECT INTEGRAL TO UNIT	2 - #12 + #12G IN 3/4"C
1-B141	FCU-A	FCU-A-1-B141	208 V	0.4 A	1	DISCONNECT INTEGRAL TO UNIT	2 - #12 + #12G IN 3/4"C
1-B142	FCU-A	FCU-A-1-B142	208 V	0.4 A	1	DISCONNECT INTEGRAL TO UNIT	2 - #12 + #12G IN 3/4"C
1-B143	FCU-A	FCU-A-1-B143	208 V	0.4 A	1	DISCONNECT INTEGRAL TO UNIT	2 - #12 + #12G IN 3/4"C
1-B144	FCU-A	FCU-A-1-B144	208 V	0.4 A	1	DISCONNECT INTEGRAL TO UNIT	2 - #12 + #12G IN 3/4"C
1-B151	FCU-A	FCU-A-1-B151	208 V	0.4 A	1	DISCONNECT INTEGRAL TO UNIT	2 - #12 + #12G IN 3/4"C
1-B152	FCU-A	FCU-A-1-B152	208 V	0.4 A	1	DISCONNECT INTEGRAL TO UNIT	2 - #12 + #12G IN 3/4"C
1-B153	FCU-A	FCU-A-1-B153	208 V	0.4 A	1	DISCONNECT INTEGRAL TO UNIT	2 - #12 + #12G IN 3/4"C

FAN COIL UNIT - CONNECTION SCHEDULE

FCU #	TYPE	FCU ID	VOLTAGE	FLA	PHASE	DISCONNECT/STARTER	WIRE SIZE
1-B154	FCU-A	FCU-A-1-B154	208 V	0.4 A	1	DISCONNECT INTEGRAL TO UNIT	2 - #12 + #12G IN 3/4"C
1-B155	FCU-A	FCU-A-1-B155	208 V	0.4 A	1	DISCONNECT INTEGRAL TO UNIT	2 - #12 + #12G IN 3/4"C
1-B157	FCU-A	FCU-A-1-B157	208 V	0.4 A	1	DISCONNECT INTEGRAL TO UNIT	2 - #12 + #12G IN 3/4"C
1-B158	FCU-A	FCU-A-1-B158	208 V	0.4 A	1	DISCONNECT INTEGRAL TO UNIT	2 - #12 + #12G IN 3/4"C
1-B159	FCU-C	FCU-C-1-B159	208 V	2.8 A	1	DISCONNECT INTEGRAL TO UNIT	2 - #12 + #12G IN 3/4"C
1-B173	FCU-G	FCU-G-1-B173	208 V	0.3 A	1	DISCONNECT INTEGRAL TO UNIT	2 - #12 + #12G IN 3/4"C
1-B174	FCU-G	FCU-G-1-B174	208 V	0.3 A	1	DISCONNECT INTEGRAL TO UNIT	2 - #12 + #12G IN 3/4"C
1-B221	FCU-A	FCU-A-1-B221	208 V	0.4 A	1	DISCONNECT INTEGRAL TO UNIT	2 - #12 + #12G IN 3/4"C
1-B222	FCU-A	FCU-A-1-B222	208 V	0.4 A	1	DISCONNECT INTEGRAL TO UNIT	2 - #12 + #12G IN 3/4"C
1-B223	FCU-A	FCU-A-1-B223	208 V	0.4 A	1	DISCONNECT INTEGRAL TO UNIT	2 - #12 + #12G IN 3/4"C
1-B224	FCU-A	FCU-A-1-B224	208 V	0.4 A	1	DISCONNECT INTEGRAL TO UNIT	2 - #12 + #12G IN 3/4"C
1-B225	FCU-A	FCU-A-1-B225	208 V	0.4 A	1	DISCONNECT INTEGRAL TO UNIT	2 - #12 + #12G IN 3/4"C
1-B226	FCU-A	FCU-A-1-B226	208 V	0.4 A	1	DISCONNECT INTEGRAL TO UNIT	2 - #12 + #12G IN 3/4"C
2-101	FCU-G	FCU-G-2-101	208 V	0.3 A	1	DISCONNECT INTEGRAL TO UNIT	2 - #12 + #12G IN 3/4"C
2-181	FCU-A	FCU-A-2-181	208 V	0.4 A	1	DISCONNECT INTEGRAL TO UNIT	2 - #12 + #12G IN 3/4"C
2-241	FCU-A	FCU-A-2-241	208 V	0.4 A	1	DISCONNECT INTEGRAL TO UNIT	2 - #12 + #12G IN 3/4"C
2-316	FCU-A	FCU-A-2-316	208 V	0.4 A	1	DISCONNECT INTEGRAL TO UNIT	2 - #12 + #12G IN 3/4"C
2-361	FCU-A	FCU-A-2-361	208 V	0.4 A	1	DISCONNECT INTEGRAL TO UNIT	2 - #12 + #12G IN 3/4"C
2-421	FCU-A	FCU-A-2-421	208 V	0.4 A	1	DISCONNECT INTEGRAL TO UNIT	2 - #12 + #12G IN 3/4"C
2-B171	FCU-A	FCU-A-2-B171	208 V	0.4 A	1	DISCONNECT INTEGRAL TO UNIT	2 - #12 + #12G IN 3/4"C
2-B201	FCU-F	FCU-F-2-B201	208 V	0.8 A	1	DISCONNECT INTEGRAL TO UNIT	2 - #12 + #12G IN 3/4"C
2-B211	FCU-D	FCU-D-2-B211	208 V	0.5 A	1	DISCONNECT INTEGRAL TO UNIT	2 - #12 + #12G IN 3/4"C
2-B212	FCU-D	FCU-D-2-B212	208 V	0.5 A	1	DISCONNECT INTEGRAL TO UNIT	2 - #12 + #12G IN 3/4"C
2-B214	FCU-C	FCU-C-2-B214	208 V	1.2 A	1	DISCONNECT INTEGRAL TO UNIT	2 - #12 + #12G IN 3/4"C
2-B235	FCU-A	FCU-A-2-B235	208 V	0.4 A	1	DISCONNECT INTEGRAL TO UNIT	2 - #12 + #12G IN 3/4"C
2-B236	FCU-E	FCU-E-2-B236	208 V	0.6 A	1		
2-B301	FCU-F	FCU-F-2-B301	208 V	0.8 A	1	DISCONNECT INTEGRAL TO UNIT	2 - #12 + #12G IN 3/4"C
3-100A	FCU-F	FCU-F-3-100A	208 V	1.6 A	1	DISCONNECT INTEGRAL TO UNIT	2 - #12 + #12G IN 3/4"C
3-150	FCU-C	FCU-C-3-150	208 V	2.7 A	1	DISCONNECT INTEGRAL TO UNIT	2 - #12 + #12G IN 3/4"C
3-150	FCU-C	FCU-C-3-150	208 V	2.7 A	1	DISCONNECT INTEGRAL TO UNIT	2 - #12 + #12G IN 3/4"C
3-150	FCU-C	FCU-C-3-150	208 V	2.7 A	1	DISCONNECT INTEGRAL TO UNIT	2 - #12 + #12G IN 3/4"C
3-230A	FCU-C	FCU-C-3-230A	208 V	2.7 A	1	DISCONNECT INTEGRAL TO UNIT	2 - #12 + #12G IN 3/4"C
3-230B	FCU-C	FCU-C-3-230B	208 V	2.7 A	1	DISCONNECT INTEGRAL TO UNIT	2 - #12 + #12G IN 3/4"C
3-244	FCU-D	FCU-D-3-244	208 V	1.2 A	1	DISCONNECT INTEGRAL TO UNIT	2 - #12 + #12G IN 3/4"C
3-364	FCU-D	FCU-D-3-364	208 V	1.2 A	1	DISCONNECT INTEGRAL TO UNIT	2 - #12 + #12G IN 3/4"C
3-401	FCU-D	FCU-D-3-401	208 V	1.2 A	1	DISCONNECT INTEGRAL TO UNIT	2 - #12 + #12G IN 3/4"C
3-B220	FCU-C	FCU-C-3-B220	208 V	2.7 A	1	DISCONNECT INTEGRAL TO UNIT	2 - #12 + #12G IN 3/4"C
3-B307	FCU-F	FCU-F-3-B307	208 V	1.6 A	1	DISCONNECT INTEGRAL TO UNIT	2 - #12 + #12G IN 3/4"C
4-130	FCU-C	FCU-C-4-130	208 V	2.2 A	1	DISCONNECT INTEGRAL TO UNIT	2 - #12 + #12G IN 3/4"C
4-184	FCU-D	FCU-D-4-184	208 V	1.2 A	1	DISCONNECT INTEGRAL TO UNIT	2 - #12 + #12G IN 3/4"C
4-210	FCU-C	FCU-C-4-210	208 V	2.2 A	1	DISCONNECT INTEGRAL TO UNIT	2 - #12 + #12G IN 3/4"C
5-220	FCU-D	FCU-D-5-220	208 V	2.2 A	1	DISCONNECT INTEGRAL TO UNIT	2 - #12 + #12G IN 3/4"C
5-235	FCU-C	FCU-C-5-235	208 V	1.2 A	1	DISCONNECT INTEGRAL TO UNIT	2 - #12 + #12G IN 3/4"C
5-411	FCU-D	FCU-D-5-411	208 V	2.2 A	1	DISCONNECT INTEGRAL TO UNIT	2 - #12 + #12G IN 3/4"C
5-B130	FCU-C	FCU-C-5-B130	208 V	1.2 A	1	DISCONNECT INTEGRAL TO UNIT	2 - #12 + #12G IN 3/4"C
5-B140	FCU-C	FCU-C-5-B140	208 V	1.2 A	1	DISCONNECT INTEGRAL TO UNIT	2 - #12 + #12G IN 3/4"C
5-B213	FCU-C	FCU-C-5-B213	208 V	1.2 A	1	DISCONNECT INTEGRAL TO UNIT	2 - #12 + #12G IN 3/4"C
5-R101	FCU-D	FCU-D-5-R101	208 V	0.8 A	1	DISCONNECT INTEGRAL TO UNIT	2 - #12 + #12G IN 3/4"C
6-172	FCU-C	FCU-C-6-172	208 V	1.2 A	1	DISCONNECT INTEGRAL TO UNIT	2 - #12 + #12G IN 3/4"C
6-320	FCU-C	FCU-C-6-320	208 V	1.2 A	1	DISCONNECT INTEGRAL TO UNIT	2 - #12 + #12G IN 3/4"C
6-330	FCU-C	FCU-C-6-330	208 V	1.2 A	1	DISCONNECT INTEGRAL TO UNIT	2 - #12 + #12G IN 3/4"C
6-B135	FCU-C	FCU-C-6-B135	208 V	1.2 A	1	DISCONNECT INTEGRAL TO UNIT	2 - #12 + #12G IN 3/4"C
6-B156	FCU-C	FCU-C-6-B156	208 V	1.2 A	1	DISCONNECT INTEGRAL TO UNIT	2 - #12 + #12G IN 3/4"C
6-B238	FCU-C	FCU-C-6-B238	208 V	1.2 A	1	DISCONNECT INTEGRAL TO UNIT	2 - #12 + #12G IN 3/4"C
7-140	FCU-C	FCU-C-7-140	208 V	2.0 A	1	DISCONNECT INTEGRAL TO UNIT	2 - #12 + #12G IN 3/4"C
7-311	FCU-D	FCU-D-7-311	208 V	1.2 A	1	DISCONNECT INTEGRAL TO UNIT	2 - #12 + #12G IN 3/4"C
8-311	FCU-D	FCU-D-8-311	208 V	1.6 A	1	DISCONNECT INTEGRAL TO UNIT	2 - #12 + #12G IN 3/4"C
9-313	FCU-D	FCU-D-9-313	208 V	2.0 A	1	DISCONNECT INTEGRAL TO UNIT	2 - #12 + #12G IN 3/4"C
9-412	FCU-C	FCU-C-9-412	208 V	2.2 A	1	DISCONNECT INTEGRAL TO UNIT	2 - #12 + #12G IN 3/4"C
9-B164	FCU-C	FCU-C-9-B164	208 V	2.2 A	1	DISCONNECT INTEGRAL TO UNIT	2 - #12 + #12G IN 3/4"C
9-B165	FCU-C	FCU-C-9-B165	208 V	2.2 A	1	DISCONNECT INTEGRAL TO UNIT	2 - #12 + #12G IN 3/4"C
12-410A	FCU-C	FCU-C-12-410A	208 V	2.2 A	1	DISCONNECT INTEGRAL TO UNIT	2 - #12 + #12G IN 3/4"C
12-410B	FCU-C	FCU-C-12-410B	208 V	2.2 A	1	DISCONNECT INTEGRAL TO UNIT	2 - #12 + #12G IN 3/4"C
13-224	FCU-C	FCU-C-13-224	208 V	1.2 A	1	DISCONNECT INTEGRAL TO UNIT	2 - #12 + #12G IN 3/4"C
14-160	FCU-C	FCU-C-14-160	208 V	2.2 A	1	DISCONNECT INTEGRAL TO UNIT	2 - #12 + #12G IN 3/4"C

ELECTRIC WATER HEATER SCHEDULE

TAG	LOCATION	kW	V	PH	Hz	DISCONNECT	DISCONNECT SIZE	WIRE SIZE
EWH-1	MECHANICAL RM XB301	30	480	3	60	DISCONNECT EXTERNAL TO UNIT	30A	3 - #8 + #10G IN 3/4"C
EWH-2	BREAK ROOM SINK B135	1.4	115	1	60	DISCONNECT EXTERNAL TO UNIT	30A	2 - #12 + #12G IN 3/4"C
EWH-3	JANITOR CLOSETS	6.7	208	1	60	DISCONNECT EXTERNAL TO UNIT	30A	2 - #12 + #12G IN 3/4"C

DOMESTIC WATER BOOSTER PUMP - CONNECTION SCHEDULE

TAG	TYPE	LOCATION	HP	VOLTS	PHASE	HZ	DISCONNECT	DISCONNECT SIZE	WIRE SIZE
BP-1	DUPLEX	B3 MECH RM	5	480	3	60	FIELD INSTALLED DISCONNECT	30A	3 - #12 + #12G IN 3/4"C

HOT WATER RECIRCULATING PUMP - CONNECTION SCHEDULE

TAG	LOCATION	HP	VOLTS	PHASE	HZ	DISCONNECT	DISCONNECT SIZE	WIRE SIZE
HWRP-1	B3 MECH RM	1/3	120	1	60	FIELD INSTALLED DISCONNECT	30A	2 - #12 + 12G IN 3/4" C

SEWAGE EJECTOR PUMP CONNECTION SCHEDULE

Key Name	TYPE	LOCATION	HP	VOLTS	PHASE	HZ	DISCONNECT	DISCONNECT SIZE	WIRE SIZE
SEP1&2	DUPLEX	B3 LEVEL	1 1/2	480	3	60	FIELD INSTALLED DISCONNECT	30A	3 - #12 + #12G IN 3/4"C

GENERAL NOTES

1. REFER TO DRAWING SHEETS E-001, AND E-002 FOR ELECTRICAL GENERAL NOTES, ABBREVIATIONS, AND SYMBOLS.
2. REFER TO DRAWING SHEET EM701 FOR MECHANICAL POWER CONNECTION SCHEDULE.
3. DISCONNECTS THAT ARE NOT INDICATED AS BEING INTEGRAL TO UNIT, MUST BE INSTALLED IN THE FIELD. PROVIDE DISCONNECT SWITCHES IN ACCORDANCE WITH NEC.

DEDICATED OUTDOOR AIR SYSTEM (DOAS) - CONNECTION SCHEDULE

EQUIPMENT ID	EQUIPMENT LOCATION	VOLTAGE	PHASE	FLA	WIRE SIZE	DISCONNECT/STARTER
DOAS-1	SOUTH MECHANICAL YARD	460 V	3	37.0 A	3 - #8 + #10G IN 3/4"C	DISCONNECT/STARTER INTEGRAL TO UNIT
DOAS-2	B233 MECHANICAL	460 V	3	37.0 A	3 - #8 + #10G IN 3/4"C	DISCONNECT/STARTER INTEGRAL TO UNIT

PUMP - CONNECTION SCHEDULE

EQUIPMENT ID	EQUIPMENT LOCATION	VOLTAGE	PHASE	HP	WIRE SIZE	DISCONNECT/STARTER	DISCONNECT/ STARTER RATING
HHWP-1	XB301 MECHANICAL	480 V	3	10.0	3 - #10 + #10G IN 3/4"C	VFD WITH INTEGRAL DISCONNECT	30A
HHWP-2	XB301 MECHANICAL	480 V	3	10.0	3 - #10 + #10G IN 3/4"C	VFD WITH INTEGRAL DISCONNECT	30A
CP-1	DOAS-1 INTERIOR VESTIBULE	120 V	1	0.8	2 - #12 + #12G IN 3/4"C	COMBINATION STARTER/DISCONNECT	30A
CP-2	B233 MECHANICAL	120 V	1	0.8	2 - #12 + #12G IN 3/4"C	COMBINATION STARTER/DISCONNECT	30A
CP-3	B236 STORAGE	120 V	1	0.8	2 - #12 + #12G IN 3/4"C	COMBINATION STARTER/DISCONNECT	30A
CHWP-1	XB301 MECHANICAL	480 V	3	15.0	3 - #10 + #10G IN 3/4"C	VFD WITH INTEGRAL DISCONNECT	30A
CHWP-2	XB301 MECHANICAL	480 V	3	15.0	3 - #10 + #10G IN 3/4"C	VFD WITH INTEGRAL DISCONNECT	30A
CBP-1	315 VESTIBULE	120 V	1	0.5	2 - #12 + #12G IN 3/4"C	COMBINATION STARTER/DISCONNECT	30A
CBP-2	346 VIDEO CORRIDOR	120 V	1	0.5	2 - #12 + #12G IN 3/4"C	COMBINATION STARTER/DISCONNECT	30A
CBP-3	346 VIDEO CORRIDOR	120 V	1	0.5	2 - #12 + #12G IN 3/4"C	COMBINATION STARTER/DISCONNECT	30A

COMPUTER ROOM AIR HANDLER - CONNECTION SCHEDULE

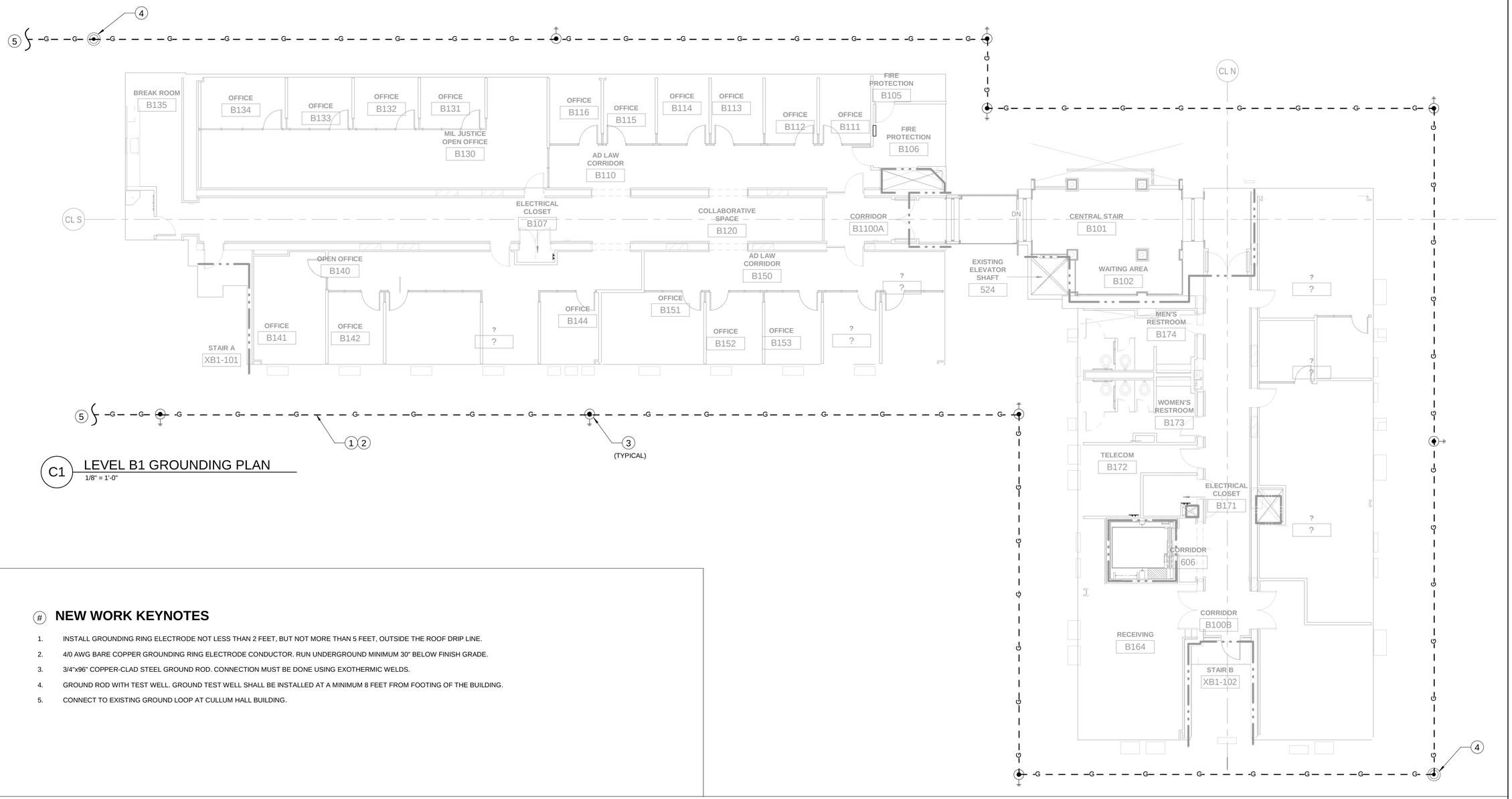
CRAH ID	VOLTAGE	PHASE	FLA	WIRE SIZE	DISCONNECT/STARTER
CRAH-1A	208 V	3	3.3 A	3 - #12 + #12G IN 3/4"C	DISCONNECT/STARTER INTEGRAL TO UNIT
CRAH-1B	208 V	3	3.3 A	3 - #12 + #12G IN 3/4"C	DISCONNECT/STARTER INTEGRAL TO UNIT
CRAH-3	208 V	1	2.6 A	2 - #12 + #12G IN 3/4"C	DISCONNECT/STARTER INTEGRAL TO UNIT
CRAH-4	208 V	3	2.6 A	3 - #12 + #12G IN 3/4"C	DISCONNECT/STARTER INTEGRAL TO UNIT
CRAH-5A	208 V	1	1.9 A	2 - #12 + #12G IN 3/4"C	DISCONNECT/STARTER INTEGRAL TO UNIT
CRAH-5B	208 V	1	1.9 A	2 - #12 + #12G IN 3/4"C	DISCONNECT/STARTER INTEGRAL TO UNIT
CRAH-6A	208 V	1	1.9 A	2 - #12 + #12G IN 3/4"C	DISCONNECT/STARTER INTEGRAL TO UNIT
CRAH-6B	208 V	1	1.9 A	2 - #12 + #12G IN 3/4"C	DISCONNECT/STARTER INTEGRAL TO UNIT
CRAH-7	208 V	1	1.9 A	2 - #12 + #12G IN 3/4"C	DISCONNECT/STARTER INTEGRAL TO UNIT
CRAH-8A	208 V	1	1.9 A	2 - #12 + #12G IN 3/4"C	DISCONNECT/STARTER INTEGRAL TO UNIT
CRAH-8B	208 V	1	1.9 A	2 - #12 + #12G IN 3/4"C	DISCONNECT/STARTER INTEGRAL TO UNIT
CRAH-9A	208 V	1	1.9 A	2 - #12 + #12G IN 3/4"C	DISCONNECT/STARTER INTEGRAL TO UNIT
CRAH-9B	208 V	1	1.9 A	2 - #12 + #12G IN 3/4"C	DISCONNECT/STARTER INTEGRAL TO UNIT
CRAH-10A	208 V	1	1.9 A	2 - #12 + #12G IN 3/4"C	DISCONNECT/STARTER INTEGRAL TO UNIT
CRAH-10B	208 V	1	1.9 A	2 - #12 + #12G IN 3/4"C	DISCONNECT/STARTER INTEGRAL TO UNIT
CRAH-11A	208 V	1	1.9 A	2 - #12 + #12G IN 3/4"C	DISCONNECT/STARTER INTEGRAL TO UNIT
CRAH-11B	208 V	1	1.9 A	2 - #12 + #12G IN 3/4"C	DISCONNECT/STARTER INTEGRAL TO UNIT

EXHAUST FAN - CONNECTION SCHEDULE

EF ID	VOLTAGE	PHASE	POWER	WIRE SIZE	DISCONNECT/STARTER	DISCONNECT/ STARTER RATING
EF-1	115 V	1	67 W	2 - #12 + #12G IN 3/4"C	COMBINATION STARTER/DISCONNECT	30A
EF-2A	115 V	1	52 W	2 - #12 + #12G IN 3/4"C	COMBINATION STARTER/DISCONNECT	30A
EF-2B	115 V	1	52 W	2 - #12 + #12G IN 3/4"C	COMBINATION STARTER/DISCONNECT	30A
EF-4	115 V	1	30 W	2 - #12 + #12G IN 3/4"C	COMBINATION STARTER/DISCONNECT	30A
EF-5	115 V	1	7 W	2 - #12 + #12G IN 3/4"C	COMBINATION STARTER/DISCONNECT	30A

UNIT HEATER - CONNECTION SCHEDULE

DH ID	VOLTAGE	PHASE	FLA	WIRE SIZE	DISCONNECT/STARTER
UH-1	115 V	1	1.2 A	2 - #12 + #12G IN 3/4"C	DISCONNECT INTEGRAL TO UNIT
UH-2	115 V	1	0.8 A	2 - #12 + #12G IN 3/4"C	DISCONNECT INTEGRAL TO UNIT
UH-3	115 V	1	0.8 A	2 - #12 + #12G IN 3/4"C	DISCONNECT INTEGRAL TO UNIT
UH-4	115 V	1	0.8 A	2 - #12 + #12G IN 3/4"C	DISCONNECT INTEGRAL TO UNIT
UH-5	115 V	1	1.2 A	2 - #12 + #12G IN 3/4"C	DISCONNECT INTEGRAL TO UNIT
UH-6	115 V	1	0.8 A	2 - #12 + #12G IN 3/4"C	DISCONNECT INTEGRAL TO UNIT
UH-7	115 V	1	0.8 A	2 - #12 + #12G IN 3/4"C	DISCONNECT INTEGRAL TO UNIT
UH-8



C1 LEVEL B1 GROUNDING PLAN

1/8" = 1'-0"

NEW WORK KEYNOTES

1. INSTALL GROUNDING RING ELECTRODE NOT LESS THAN 2 FEET, BUT NOT MORE THAN 5 FEET, OUTSIDE THE ROOF DRIP LINE.
2. 4/0 AWG BARE COPPER GROUNDING RING ELECTRODE CONDUCTOR. RUN UNDERGROUND MINIMUM 30" BELOW FINISH GRADE.
3. 3/4"x96" COPPER-CLAD STEEL GROUND ROD. CONNECTION MUST BE DONE USING EXOTHERMIC WELDS.
4. GROUND ROD WITH TEST WELL. GROUND TEST WELL SHALL BE INSTALLED AT A MINIMUM 8 FEET FROM FOOTING OF THE BUILDING.
5. CONNECT TO EXISTING GROUND LOOP AT CULLUM HALL BUILDING.

GENERAL NOTES

1. REFER TO DRAWING SHEETS E-001, AND E-002 FOR ELECTRICAL GENERAL NOTES, ABBREVIATIONS, AND SYMBOLS.
2. REFER TO SHEET ES100 FOR ELECTRICAL SITE UTILITIES PLAN.

0 4' 8' 16'

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

N

US Army Corps of Engineers ®

MARK	DESCRIPTION	DATE

DESIGNED BY:	D. PAXTON
DRAWN BY:	D. PAXTON
CHECKED BY:	Y. SOLOMON
SUBMITTED BY:	
ISSUE DATE:	01 MARCH 2023
SOLICITATION NO.:	W912DS-18-R-0014
CONTRACT NO.:	W912DS-19-C-0031-L
FILE NUMBER:	
SIZE: ANSI D	FILE NAME:

US ARMY CORPS OF ENGINEERS
LINCOLN HALL
WEST POINT, NEW YORK

JACOBS / EWING COLE *A Joint Venture*

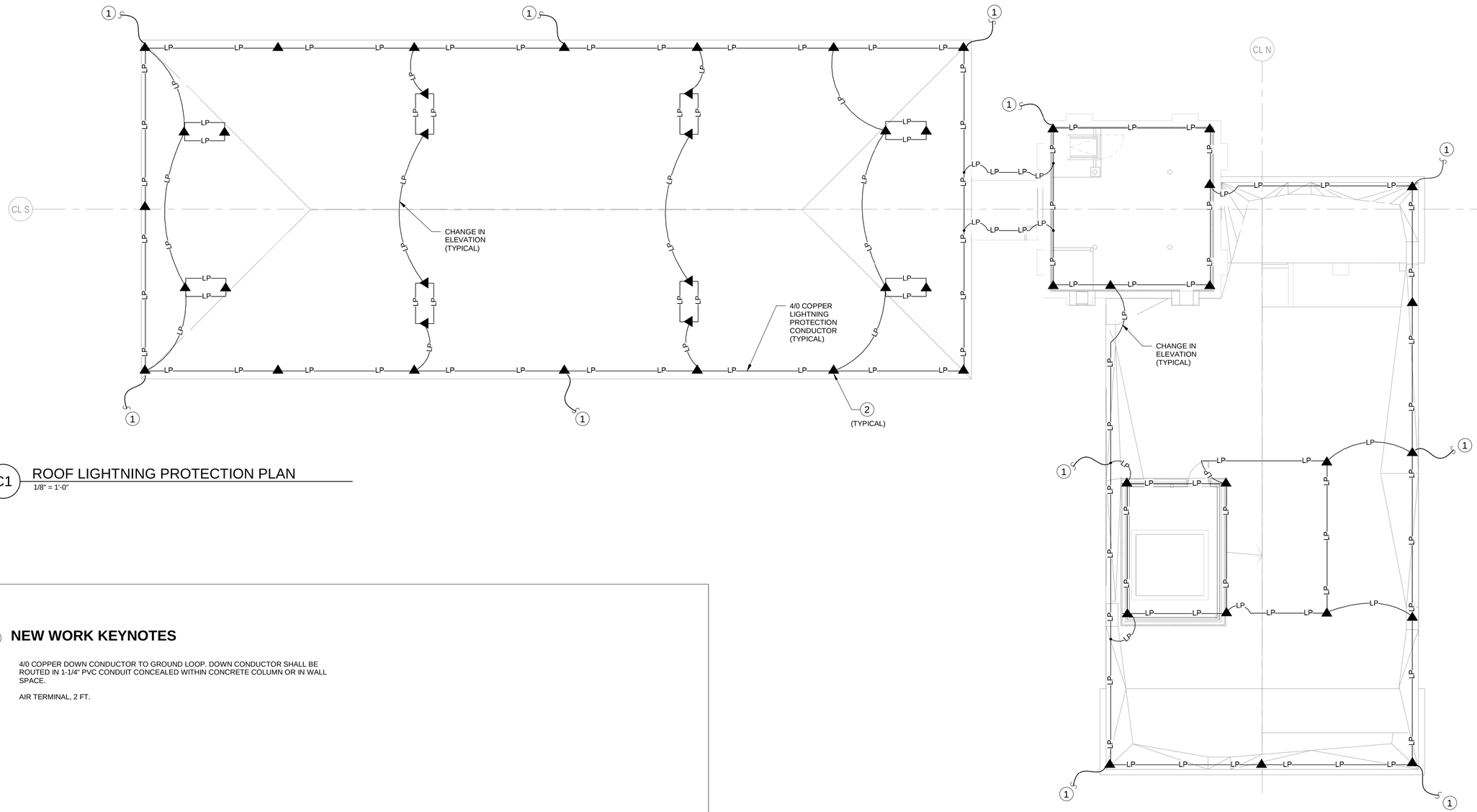
BUILDINGS 605/607 RENOVATION - LINCOLN HALL

LEVEL B1 GROUNDING PLAN

SHEET ID

EG101

REVISED RTA SUBMISSION 3/1/2023



C1 ROOF LIGHTNING PROTECTION PLAN

1/8" = 1'-0"

NEW WORK KEYNOTES

1. 4/0 COPPER DOWN CONDUCTOR TO GROUND LOOP. DOWN CONDUCTOR SHALL BE ROUTED IN 1-1/4" PVC CONDUIT CONCEALED WITHIN CONCRETE COLUMN OR IN WALL SPACE.
2. AIR TERMINAL, 2 FT.

GENERAL NOTES

1. REFER TO DRAWING SHEETS E-001, AND E-002 FOR ELECTRICAL GENERAL NOTES, ABBREVIATIONS, AND SYMBOLS.
2. PROVIDE COMPLETE LIGHTNING PROTECTION SYSTEM IN ACCORDANCE TO THE REQUIREMENTS OF THE NATIONAL FIRE PROTECTION ASSOCIATION'S "STANDARD FOR THE INSTALLATION OF LIGHTNING PROTECTION SYSTEMS, ALL RELATED APPENDICES LATEST EDITION" (NFPA 780) AND THE "INSTALLATION REQUIREMENTS FOR LIGHTNING PROTECTION SYSTEMS, UL 96A" OF UNDERWRITERS LABORATORIES INC.
3. CONNECT ALL METALLIC EQUIPMENT ENCLOSURE WITH THE LIGHTNING PROTECTION GRID.
4. ALL DOWN CONDUCTORS SHALL BE CONCEALED INSIDE THE BUILDING. EXPOSED DOWN CONDUCTORS ON THE EXTERIOR FACE OF THE BUILDING SHALL NOT BE INSTALLED.
5. UL MASTER LABEL CIRTIFICATION MUST BE PROVIDED TO THE GOVERNMENT FOR THE LPS SYSTEM.
6. INDEPENDENT 3RD PARTY TEST INSPECTION OF THE LPS SYSTEM MUST BE PERFORMED AND SIGNED OFF BY PROFESSIONAL ENGINEER. RESULTS MUST BE PROVIDED TO DPW.

0 4' 8' 16'

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

N

US Army Corps of Engineers ®

MARK	DESCRIPTION	DATE

DESIGNED BY: D. PAXTON
DRAWN BY: D. PAXTON
CHECKED BY: Y. SOLOMON
SUBMITTED BY:

ISSUE DATE: 01 MARCH 2023
SOLICITATION NO.: W912DS-19-R-0014
CONTRACT NO.: W912DS-19-C-0031-L
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LINCOLN HALL
WEST POINT, NEW YORK

JACOBS / EWING COLE *A Joint Venture*

BUILDINGS 605/607 RENOVATION - LINCOLN HALL

ROOF LIGHTNING PROTECTION PLAN

SHEET ID

EG102

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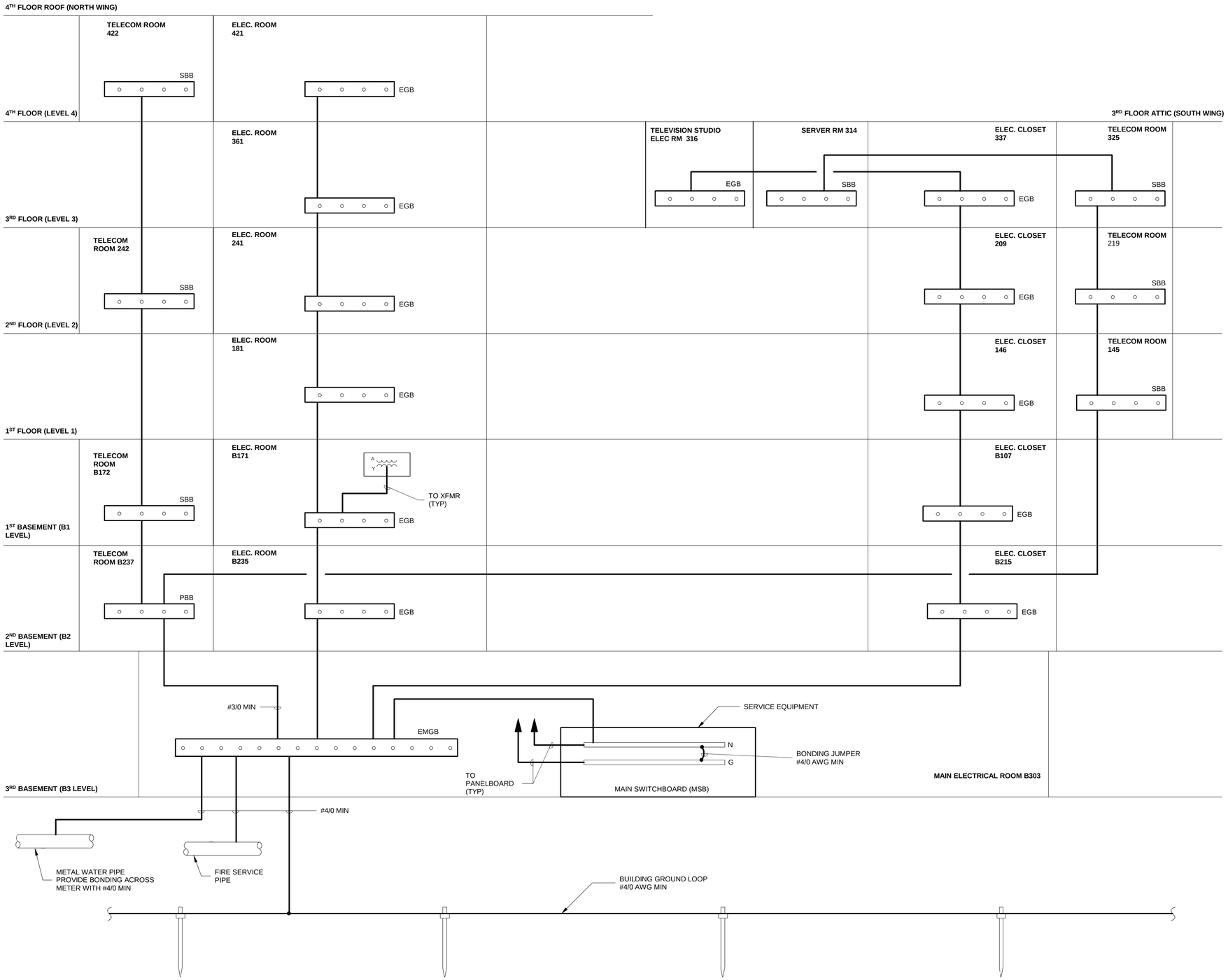

A1 GROUNDING RISER DIAGRAM
NTS

REVISED RTA SUBMISSION 3/1/2023

US Army Corps of Engineers ®

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WEST POINT, NEW YORK

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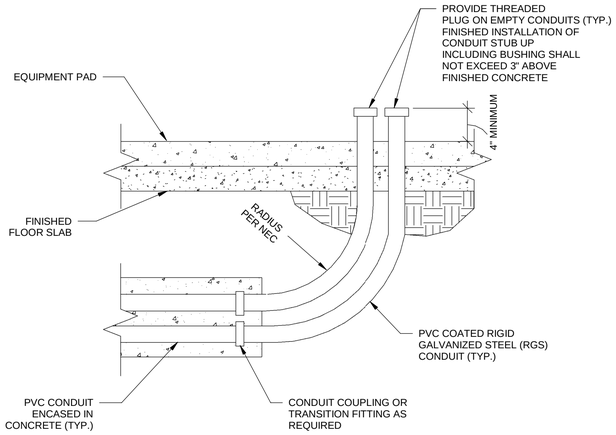
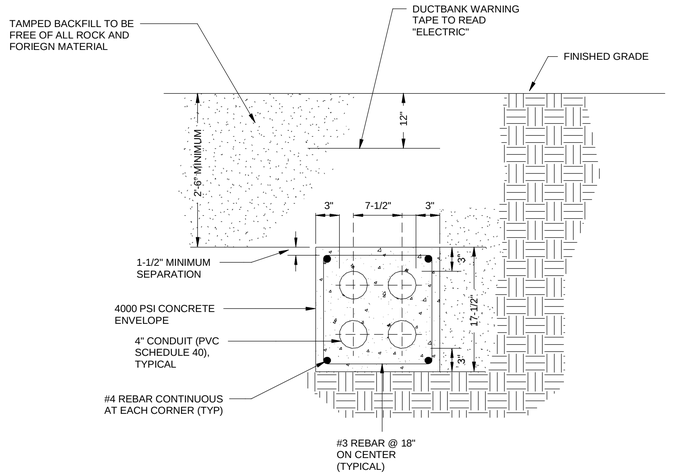
GROUNDING RISER DIAGRAM

SHEET ID

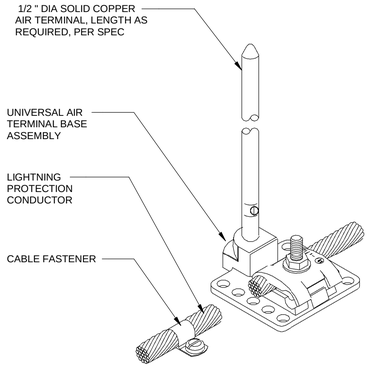
EG601



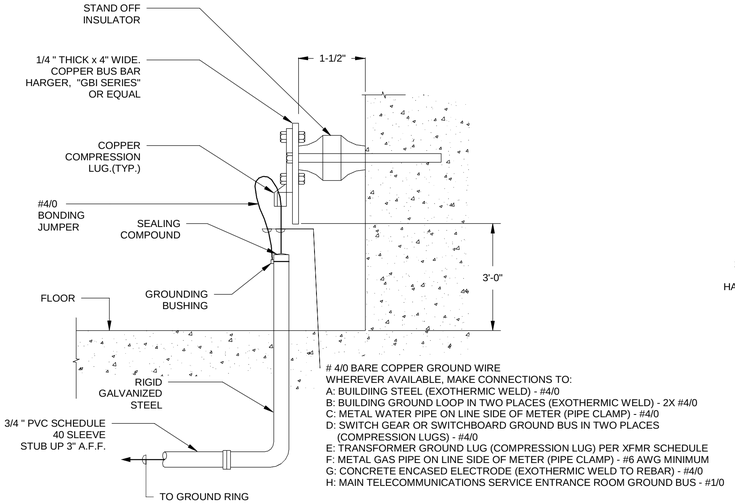
C1 SERVICE ENTRANCE CONDUIT STUB UP
NTS



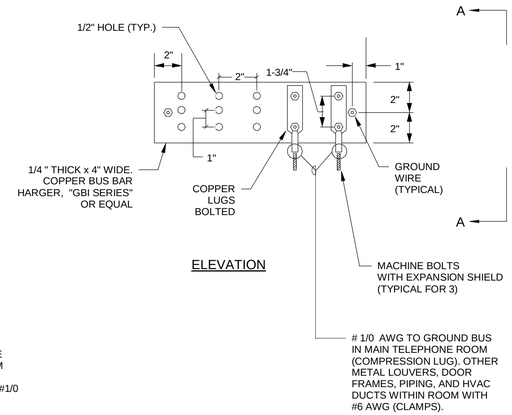
C3 4 WAY CONCRETE ENCASED DUCTBANK
NTS



C4 TYPICAL AIR TERMINAL
NTS

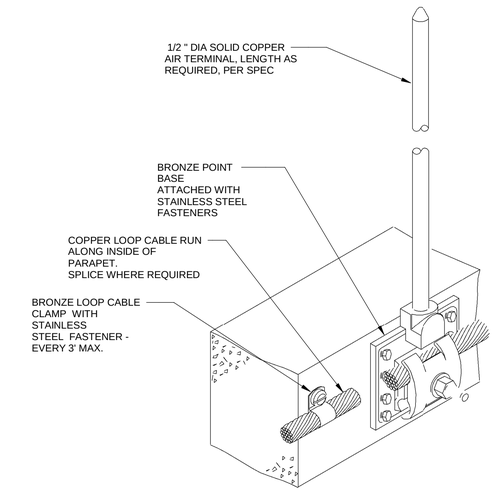


SECTION 'A-A'



ELEVATION

A1 "MAIN ELECTRICAL ROOM" GROUND BUS DETAIL
NTS



A4 PARAPET/WALL RIGID AIR TERMINAL BASE-MOUNTING
NTS

US Army Corps of Engineers ®

MARK	DESCRIPTION	DATE

DESIGNED BY: D. PAXTON
DRAWN BY: D. PAXTON
CHECKED BY: Y. SOLOMON
SUBMITTED BY:
ISSUE DATE: 01 MARCH 2023
SOLICITATION NO.: W912DS-19-R-0014
CONTRACT NO.: W912DS-19-C-0031-L
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US ARMY CORPS OF ENGINEERS
LINCOLN HALL
WEST POINT, NEW YORK

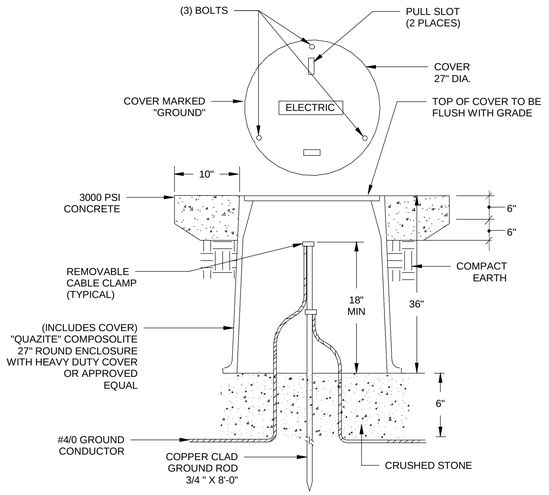
JACOBS / EWING COLE A Joint Venture

BUILDINGS 605/607 RENOVATION - LINCOLN HALL

DETAILS

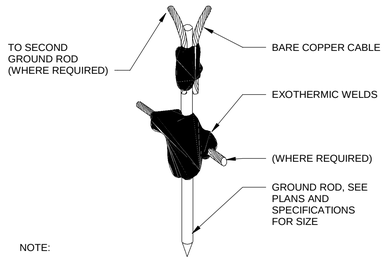
SHEET ID
E-501

REVISED RTA SUBMISSION 3/1/2023



NOTE:
LOCATE WHERE SUFFICIENT SITE CLEARING EXISTS FOR "FALL OF POTENTIAL IMPEDANCE TEST".

C1 ACCESSIBLE GROUND ROD TEST WELL
NTS

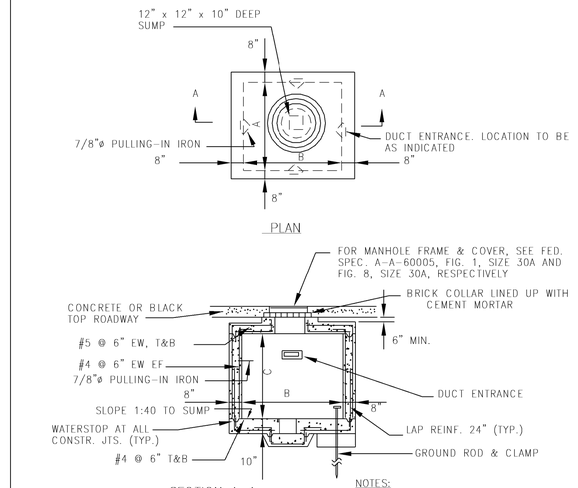


NOTE:

ALL GROUND RODS SHALL HAVE A RESISTANCE OF 10 OHMS OR LESS UNLESS OTHERWISE NOTED ON PLANS OR SPECIFICATIONS. PROVIDE AN ADDITIONAL ROD WHERE SHOWN ON PLANS OR IF RESISTANCE IS NOT ACHIEVED WITH ONE ROD.

SPACE ADDITIONAL ROD FROM THE FIRST ROD A DISTANCE OF 2 TIMES THE LENGTH OF THE ROD OR MAXIMUM DISTANCE SPACE PERMITS BUT NO LESS THAN LENGTH OF ROD, WHICHEVER IS GREATER.

C2 TYPICAL GROUND ROD
NTS



MANHOLE DIMENSIONS			
TYPE	A	B	C (AT HIGH PT.)
3	6'-0"	6'-0"	6'-6"
4	6'-0"	8'-0"	6'-6"

NOTES:

1. MANHOLE AND COVERS ARE DESIGNED FOR MAXIMUM WHEEL LOAD IN ACCORDANCE WITH AASHTO HS20-44.
2. FOR DETAILS OF CABLE RACKS, DUCT ENTRANCE AND PULLING-IN IRONS, SEE PLATE UG-7.
3. MINIMUM CONCRETE COMPRESSIVE STRENGTH SHALL BE 3000 PSI.

STANDARD ELECTRICAL MANHOLE (TRAFFIC)
TYPES 3 & 4

SKETCH DATE	JUNE 2002	STYLE	UG-2

B4 MANHOLE DETAIL
NTS

REVISED RTA SUBMISSION 3/1/2023

US Army Corps of Engineers ®

MARK	DESCRIPTION	DATE

DESIGNED BY: D. PAXTON
DRAWN BY: D. PAXTON
CHECKED BY: Y. SOLOMON
SUBMITTED BY:
ISSUE DATE: 01 MARCH 2023
SOLICITATION NO.: W912DS-19-R-0014
CONTRACT NO.: W912DS-19-C-0031-L
FILE NUMBER:
SIZE: ANSI D
FILE NAME:

US ARMY CORPS OF ENGINEERS
LINCOLN HALL
WEST POINT, NEW YORK

JACOBS / EWING COLE A Joint Venture

BUILDINGS 605/607 RENOVATION - LINCOLN HALL

DETAILS

SHEET ID
E-502

LUMINAIRE REQUIREMENTS:

1. HOUSING - DIE-FORMED, COLD-ROLLED STEEL, WITH REINFORCEMENT RIBS FOR RIGIDITY AND SPECULAR ALUMINUM OR HIGHLY-REFLECTIVE PAINTED STEEL REFLECTORS. OPTIONAL LENGTHS OF 4FT OR 8FT.
2. FINISH - MULTI-STAGE PHOSPHATE BONDING TREATMENT FINISHED WITH HIGH-REFLECTANCE, WHITE POLYESTER POWDER COAT, PAINTED AFTER FABRICATION.
3. LIGHT SOURCE - SOLID STATE LEDS WITH MINIMUM 50K HOURS RATED LIFE AT L70, 3500K CCT UON, MINIMUM 80 CRI, MAXIMUM 4-STEP MCADAM ELLIPSE BINNING TOLERANCE FOR COLOR CONSISTENCY, AND MINIMUM EFFICACY OF 100 LUMENS/WATT. INITIAL LUMEN OUTPUT AS INDICATED IN LUMINAIRE SCHEDULE.
4. DRIVER - REPLACEABLE, INTEGRAL, HIGH-EFFICIENCY DRIVER WITH MINIMUM 0.9 PF, OPERATING VOLTAGE OF 120-277V, THERMAL MANAGEMENT, < 20% TOTAL HARMONIC DISTORTION. ON-OFF CONTROL, STEP-DIMMABLE OR FULLY DIMMABLE AS INDICATED.
5. CERTIFICATION - UL 1598, DAMP LOCATION, DLC QUALIFIED, AND ROHS COMPLIANT. COMPLIES WITH LM79, LM80 AND TM21 TESTING STANDARDS. UL 924 WHEN EQUIPPED WITH EMERGENCY BATTERY BACK-UP.
6. MOUNTING - SURFACE ON CEILING OR SUSPENDED.
7. OPTIONS - WIRE GUARD, CHAIN, STEM OR SWIVEL STEM HANGERS.
8. THIS SKETCH IS A NON-PROPRIETARY GRAPHIC REPRESENTATION OF A LUMINAIRE THAT MAY MEET THE SPECIFICATION REQUIREMENTS. IT IS NOT INTENDED TO INDICATE A CERTAIN MANUFACTURER OR PREFERENCE.

LED INDUSTRIAL TYPE W2

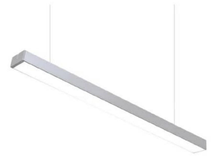
REVISED: APRIL 2016 | LIGHTING PLATE: NL-7

LUMINAIRE REQUIREMENTS:

1. HOUSING - FIBERGLASS OR FIBERGLASS-REINFORCED POLYESTER OUTER HOUSING, WITH ALUMINUM COMPONENT TRAY AND HEAT SINK. OPTIONAL LENGTHS OF 4FT OR 8FT.
2. LENS - IMPACT-RESISTANT ACRYLIC OR OPTIONAL POLYCARBONATE, WITH CONTINUOUS CLOSED-CELL POLYURETHANE GASKET, SECURED WITH STAINLESS STEEL OR POLYCARBONATE LATCHES.
3. LIGHT SOURCE - SOLID STATE LEDS WITH MINIMUM 50K HOURS RATED LIFE AT L70, 3500K CCT UON, MINIMUM 80 CRI, MAXIMUM 4-STEP MCADAM ELLIPSE BINNING TOLERANCE FOR COLOR CONSISTENCY, AND MINIMUM EFFICACY OF 100 LUMENS/WATT. INITIAL LUMEN OUTPUT AS INDICATED IN LUMINAIRE SCHEDULE.
4. DRIVER - REPLACEABLE, INTEGRAL, HIGH-EFFICIENCY DRIVER WITH MINIMUM 0.9 PF, OPERATING VOLTAGE OF 120-277V, THERMAL MANAGEMENT, < 20% TOTAL HARMONIC DISTORTION. ON-OFF CONTROL, STEP-DIMMABLE OR FULLY DIMMABLE AS INDICATED.
5. CERTIFICATION - UL 1598, WET LOCATION (IP65, IP66, IP67), DLC QUALIFIED, AND ROHS COMPLIANT. COMPLIES WITH LM79, LM80 AND TM21 TESTING STANDARDS. UL 924 WHEN EQUIPPED WITH EMERGENCY BATTERY BACK-UP.
6. MOUNTING - SURFACE-MOUNTED OR SUSPENDED FROM CEILING.
7. OPTIONS - POWER CORD, INTEGRAL MOTION SENSOR, EMERGENCY BACK-UP.
8. THIS SKETCH IS A NON-PROPRIETARY GRAPHIC REPRESENTATION OF A LUMINAIRE THAT MAY MEET THE SPECIFICATION REQUIREMENTS. IT IS NOT INTENDED TO INDICATE A CERTAIN MANUFACTURER OR PREFERENCE.

LED ENCLOSED AND GASKETED TYPE W3

REVISED: APRIL 2016 | LIGHTING PLATE: NL-11



LUMINAIRE REQUIREMENTS:

1. HOUSING - DIE-CAST ALUMINUM FRAME AND HEAT SINK WITH SILVER TONES or WHITE ENAMELED FINISH. APPROXIMATELY 4-inch x 4 FT.
2. LENS - IMPACT-RESISTANT ACRYLIC.
3. LIGHT SOURCE - SOLID STATE LEDS WITH MINIMUM 50K HOURS RATED LIFE AT L70, 3500K CCT UON, MINIMUM 80 CRI, MAXIMUM 4-STEP MCADAM ELLIPSE BINNING TOLERANCE FOR COLOR CONSISTENCY, AND MINIMUM EFFICACY OF 75 LUMENS/WATT. INITIAL LUMEN OUTPUT AS INDICATED IN LUMINAIRE SCHEDULE.
4. DRIVER - REPLACEABLE, HIGH-EFFICIENCY DRIVER WITH MINIMUM 0.9 PF, OPERATING VOLTAGE OF 120-277V, THERMAL MANAGEMENT, < 20% TOTAL HARMONIC DISTORTION. ON-OFF CONTROL, STEP-DIMMABLE OR FULLY DIMMABLE AS INDICATED.
5. CERTIFICATION - UL 1598, DLC QUALIFIED, AND ROHS COMPLIANT. COMPLIES WITH LM79, LM80 AND TM21 TESTING STANDARDS.
6. MOUNTING - SUSPENDED FROM HARD OR ACOUSTICAL TILE CEILING.
7. OPTIONS - 0-10V OR DALI SYSTEM DIMMING.
8. THIS IMAGE IS A NON-PROPRIETARY GRAPHIC REPRESENTATION OF A LUMINAIRE THAT MAY MEET THE SPECIFICATION REQUIREMENTS. IT IS NOT INTENDED TO INDICATE A CERTAIN MANUFACTURER OR PREFERENCE.

LED LINEAR PENDANT TYPE B, B1 & K

REVISED: APRIL 2016 | LIGHTING PLATE: NL-13

LUMINAIRE REQUIREMENTS:

1. HOUSING - DIE-FORMED, COLD-ROLLED STEEL, WITH REINFORCEMENT RIBS FOR RIGIDITY; END CAPS SAME MATERIAL AS HOUSING, SECURED WITH TABS, SCREWS OR RIVETS. WHITE ENAMEL FINISH APPLIED AFTER FABRICATION. OPTIONAL LENGTHS OF 2FT OR 4FT.
2. LENS - ACRYLIC PRISMATIC OR WHITE OPAL TO PROVIDE EVEN ILLUMINATION AND TO ELIMINATE PIXILATION FROM LED LIGHT SOURCE.
3. LIGHT SOURCE - SOLID STATE LEDS WITH MINIMUM 50K HOURS RATED LIFE AT L70, 3500K CCT UON, MINIMUM 80 CRI, MAXIMUM 4-STEP MCADAM ELLIPSE BINNING TOLERANCE FOR COLOR CONSISTENCY, AND MINIMUM EFFICACY OF 90 LUMENS/WATT. INITIAL LUMEN OUTPUT AS INDICATED IN LUMINAIRE SCHEDULE.
4. DRIVER - REPLACEABLE, INTEGRAL, HIGH-EFFICIENCY DRIVER WITH MINIMUM 0.9 PF, OPERATING VOLTAGE OF 120-277V, THERMAL MANAGEMENT, < 20% TOTAL HARMONIC DISTORTION. ON-OFF CONTROL, STEP-DIMMABLE OR FULLY DIMMABLE AS INDICATED.
5. CERTIFICATION - UL 1598, DAMP LOCATION, DLC QUALIFIED, AND ROHS COMPLIANT. COMPLIES WITH LM79, LM80 AND TM21 TESTING STANDARDS. UL 924 WHEN EQUIPPED WITH EMERGENCY BATTERY BACK-UP.
6. MOUNTING - SURFACE.
7. OPTIONS - INTEGRAL MOTION SENSOR, EMERGENCY BACK-UP.
8. THIS SKETCH IS A NON-PROPRIETARY GRAPHIC REPRESENTATION OF A LUMINAIRE THAT MAY MEET THE SPECIFICATION REQUIREMENTS. IT IS NOT INTENDED TO INDICATE A CERTAIN MANUFACTURER OR PREFERENCE.

WALL MOUNTED LED TYPE W1

REVISED: | LIGHTING PLATE: NL-9

LUMINAIRE REQUIREMENTS:

1. HOUSING - DIE-FORMED, COLD-ROLLED STEEL, OR FORGED ALUMINUM WITH HEAT SINK. DRIVER MUST BE ACCESSIBLE FROM BOTTOM OF LUMINAIRE. PROVIDE T-BAR HANGERS FOR INSTALLATION IN ACOUSTICAL TILE CEILINGS OR TABS WHEN MOUNTING IN HARD CEILINGS.
2. REFLECTOR AND TRIM - SPECIFICATION GRADE, LOW IRRIDESCENT, SPECULAR ALUMINUM REFLECTOR WITH METALLIC OR PAINTED TRIM RING..
3. LIGHT SOURCE - SOLID STATE LEDS WITH MINIMUM 50K HOURS RATED LIFE AT L70, 3500K CCT UON, MINIMUM 80 CRI, MAXIMUM 4-STEP MCADAM ELLIPSE BINNING TOLERANCE FOR COLOR CONSISTENCY, AND MINIMUM EFFICACY OF 90 LUMENS/WATT. INITIAL LUMEN OUTPUT AS INDICATED IN LUMINAIRE SCHEDULE.
4. DRIVER - REPLACEABLE, INTEGRAL, HIGH-EFFICIENCY DRIVER WITH MINIMUM 0.9 PF, OPERATING VOLTAGE OF 120-277V, THERMAL MANAGEMENT, < 20% TOTAL HARMONIC DISTORTION. ON-OFF CONTROL, STEP-DIMMABLE OR FULLY DIMMABLE AS INDICATED.
5. CERTIFICATION - UL 1598, DAMP LOCATION, DLC QUALIFIED, AND ROHS COMPLIANT. COMPLIES WITH LM79, LM80 AND TM21 TESTING STANDARDS. UL 924 WHEN EQUIPPED WITH EMERGENCY BATTERY BACK-UP.
6. MOUNTING - RECESSED IN HARD OR ACOUSTICAL TILE CEILING.
7. OPTIONS - EMERGENCY BATTERY BACK-UP, WALL-WASH TRIM, IC RATED FOR DIRECT CONTACT WITH INSULATION, VARIOUS APERTURE DIAMETERS, AND VARIOUS GLASS LENSES.
8. THIS SKETCH IS A NON-PROPRIETARY GRAPHIC REPRESENTATION OF A LUMINAIRE THAT MAY MEET THE SPECIFICATION REQUIREMENTS. IT IS NOT INTENDED TO INDICATE A CERTAIN MANUFACTURER OR PREFERENCE.

LED RECESSED DOWNLIGHT TYPE C

REVISED: APRIL 2016 | LIGHTING PLATE: NL-19

LUMINAIRE REQUIREMENTS:

1. HOUSING - COMPACT-DESIGN CHANNEL AND CONVER ARE FORMED FROM COLD-GAUGE COLD-ROLLED STEEL. APPROXIMATELY 2.5" x 4 FT.
2. LENS - DIFFUSE LINEAR POLYCARBONATE LENS.
3. LIGHT SOURCE - SOLID STATE LEDS WITH MINIMUM 50K HOURS RATED LIFE AT L70, 3500K CCT UON, MINIMUM 80 CRI, AND MINIMUM EFFICACY OF 4000 LUMENS. INITIAL LUMEN OUTPUT AS INDICATED IN LUMINAIRE SCHEDULE.
4. DRIVER - REPLACEABLE, HIGH-EFFICIENCY DRIVER WITH MINIMUM 0.9 PF, OPERATING VOLTAGE OF 120-277V, THERMAL MANAGEMENT, < 20% TOTAL HARMONIC DISTORTION. ON-OFF CONTROL, & FULLY DIMMABLE AS INDICATED.
5. CERTIFICATION - UL 1598, DLC QUALIFIED, AND ROHS COMPLIANT. COMPLIES WITH LM79, LM80 AND TM21 TESTING STANDARDS.
6. MOUNTING - SUSPENDED OR SURFACE TO HARD CEILING.
7. OPTIONS - 0-10V OR DALI SYSTEM DIMMING.
8. ACCESSORIES - 4' WIRE GUARD.
9. THIS IMAGE IS A NON-PROPRIETARY GRAPHIC REPRESENTATION OF A LUMINAIRE THAT MAY MEET THE SPECIFICATION REQUIREMENTS. IT IS NOT INTENDED TO INDICATE A CERTAIN MANUFACTURER OR PREFERENCE.

LED STRIP LIGHT TYPE J

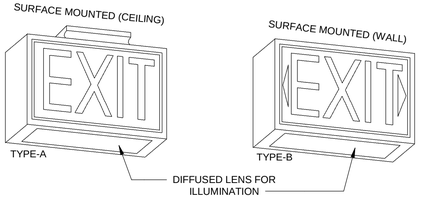
REVISED: MARCH 2020 | LIGHTING PLATE: NL-27

LUMINAIRE REQUIREMENTS:

1. HOUSING - METALIC HOUSING WITH THREE MULTIPLE AIRCRAFT CABLE SUPPORT A SINGLE RING, PENDANT MOUNTED, COOL STEEL FINISH.
2. INTERFACING LENS - ACRYLIC LENS AND LED LIGHT SOURCE.
3. LIGHT SOURCE - DIRECT/INDIRECT SOLID STATE LEDS WITH MINIMUM 50K HOURS RATED LIFE AT L70, 3500 CCT UON, MINIMUM 80 CRI WITH WHITE LEDs ONLY. DELIVERED LUMENS & LPW BASED ON 3500K. +80 CRI COLOR CONSISTENCY, AND MINIMUM EFFICACY OF 200 LUMENS/WATT. INITIAL LUMEN OUTPUT AS INDICATED IN LUMINAIRE SCHEDULE.
4. DRIVER - REPLACEABLE, HIGH-EFFICIENCY DRIVER, WIRE CONNECTION & OPERATING MULTI-VOLTAGE @ 120-277V, THERMAL MANAGEMENT, <20% THD. ON-OFF CONTROL OR FULLY DIMMABLE AS INDICATED.
5. CERTIFICATION - UL 1598, DAMP LOCATION (INDOOR USE ONLY), DLC QUALIFIED, AND ROHS COMPLIANT. COMPLIES WITH LM79, LM80 AND TM21 TESTING STANDARDS.
6. MOUNTING - SUSPENDED FROM HARD CEILING WITH AIRCRAFT CABLE, WITH POWER CABLE ATTACHING TO CABLE FROM CEILING OUTLET & PLATE. MULTIPLE-POINT ANCHORING FOR SUPPORT.
7. OPTIONS - NONE.
8. THIS IMAGE OR GRAPHIC REPRESENTATION OF A LUMINAIRE THAT MAY MEET THE SPECIFICATION REQUIREMENTS. IT IS NOT INTENDED TO INDICATE A CERTAIN MANUFACTURER OR PREFERENCE.

ROUND LED PENDANT TYPE H1 & H2

REVISED: APRIL 2020 | LIGHTING PLATE: NL-29



LUMINAIRE REQUIREMENTS

1. HOUSING - UNITS MOUNTED EXPOSED TO THE ENVIRONMENT SHALL HAVE A DAMP OR WET U.L. LABEL AS APPROPRIATE AND SHALL NOT BE CONSTRUCTED OF STEEL. INTERNAL PROVISIONS FOR GROUNDING.
2. LENS - IMPACT-RESISTANT ACRYLIC - RED FIBERGLASS PANEL BEHIND STENCIL FACE.
3. LIGHT SOURCE - SOLID STATE LEDS WITH MINIMUM 50K HOURS RATED LIFE AND MINIMUM EFFICACY OF 10 LUMENS/WATT.
4. DRIVER - ENERGY EFFICIENCY DRIVER WITH MINIMUM 0.9 PF, OPERATING VOLTAGE OF 120-277V, THERMAL MANAGEMENT, < 20% TOTAL HARMONIC DISTORTION. ON-OFF CONTROL.
5. CERTIFICATION - ANSI/UL 924 AND TESTING STANDARDS. COMPLIES WITH NFPA 5000, NEC 700 & 701, IBC & IFC INSTALLATION CRITERIA.
6. MOUNTING - SURFACE MOUNTED TO EITHER HARD OR ACOUSTICAL TILE CEILING, END WALL, BACK WALL OR PENDANT MOUNTING AS INDICATED.
7. OPTIONS - INTERNATIONAL SYMBOL OF ACCESS ON SIGN WHEN INDICATED. EITHER SINGLE OR DOUBLE FACE, AS INDICATED, WITH OR WITHOUT DIRECTIONAL ARROWS.
8. THIS IMAGE IS A NON-PROPRIETARY GRAPHIC REPRESENTATION OF A LUMINAIRE THAT MAY MEET THE SPECIFICATION REQUIREMENTS. IT IS NOT INTENDED TO INDICATE A CERTAIN MANUFACTURER OR PREFERENCE.

TYPE A - ALUMINUM OR PAINTED STEEL HOUSING AND STENCIL FACE. (SEE NOTE 8.)

TYPE B - PLASTIC HOUSING ENCLOSED IN POLYCARBONATE WITH STENCIL ON INSIDE OF POLYCARBONATE HOUSING. (SEE NOTE 8.)

LED EXIT SIGN TYPE X

REVISED: MARCH 2020 | LIGHTING PLATE: NL-30

REVISED RTA SUBMISSION 3/1/2023

US Army Corps of Engineers ®

MARK	DESCRIPTION	DATE

ISSUE DATE:
01 MARCH 2023
SOLICITATION NO.:
W912DS-19-R-0014
CONTRACT NO.:
W912DS-19-C-0031-L
FILE NUMBER:

DESIGNED BY: D. PAXTON
DRAWN BY: D. PAXTON
CHECKED BY: Y. SOLOMON
SUBMITTED BY:
SIZE: ANSI 'D'
FILE NAME:

US ARMY CORPS OF ENGINEERS
LINCOLN HALL
WEST POINT, NEW YORK

JACOBS / EWING COLE A Joint Venture

BUILDINGS 605/607 RENOVATION - LINCOLN HALL

DETAILS

SHEET ID

E-503

LUMINAIRE REQUIREMENTS:

1. HOUUSING - DIE-FORMED, COLD-ROLLED STEEL, OR FORGED ALUMINUM WITH HEAT SINK. DRIVER MUST BE ACCESSIBLE FROM BOTTOM OF LUMINAIRE. PROVIDE T-BAR HANGERS FOR INSTALLATION IN ACOUSTICAL TILE CEILINGS OR TABS WHEN MOUNTING IN HARD CEILINGS.
2. REFLECTOR AND TRIM - SPECIFICATION GRADE, LOW IRRIDESCENT, SPECULAR ALUMINUM REFLECTOR WITH METALLIC OR PAINTED TRIM RING..
3. LIGHT SOURCE - SOLID STATE LEDS WITH MINIMUM 50K HOURS RATED LIFE AT L70, 3500K CCT UON, MINIMUM 80 CRI, MAXIMUM 4-STEP MCADAM ELLIPSE BINNING TOLERANCE FOR COLOR CONSISTENCY, AND MINIMUM EFFICACY OF 90 LUMENS/WATT. INITIAL LUMEN OUTPUT AS INDICATED IN LUMINAIRE SCHEDULE.
4. DRIVER - REPLACEABLE, INTEGRAL, HIGH-EFFICIENCY DRIVER WITH MINIMUM 0.9 PF, OPERATING VOLTAGE OF 120-277V, THERMAL MANAGEMENT, < 20% TOTAL HARMONIC DISTORTION. ON-OFF CONTROL, STEP-DIMMABLE OR FULLY DIMMABLE AS INDICATED.
5. CERTIFICATION - UL 1598, DAMP LOCATION, DLC QUALIFIED, AND ROHS COMPLIANT. COMPLIES WITH LM79, LM80 AND TM21 TESTING STANDARDS. UL 924 WHEN EQUIPPED WITH EMERGENCY BATTERY BACK-UP.
6. MOUNTING - RECESSED IN HARD OR ACOUSTICAL TILE CEILING.
7. OPTIONS - EMERGENCY BATTERY BACK-UP, WALL-WASH TRIM, IC RATED FOR DIRECT CONTACT WITH INSULATION, VARIOUS APERTURE DIAMETERS, AND VARIOUS GLASS LENSES.
8. THIS SKETCH IS A NON-PROPRIETARY GRAPHIC REPRESENTATION OF A LUMINAIRE THAT MAY MEET THE SPECIFICATION REQUIREMENTS. IT IS NOT INTENDED TO INDICATE A CERTAIN MANUFACTURER OR PREFERENCE.

RECESSED SQUARE DOWNLIGHT TYPE D, D1& D2

REVISED: APRIL 2016 | LIGHTING PLATE: NL-18

LUMINAIRE REQUIREMENTS

1. HOUSING - GEAR-TRAY AND BRACKETS, DIE FORMED ALUMINUM, EXTRUDED ALUMINUM WITH HEAT SINK AND STAINLESS STEEL HARDWARE.
2. LENS - CLEAR ACRYIC EXTRUDED LENS, UL DAMP LOCATION LISTED.
3. LIGHT SOURCE - SOLID STATE LEDS WITH MINIMUM L70/50,000 HOURS RATED LIFE AND MINIMUM EFFICACY OF 9 LUMENS/WATT PER FOOT.
4. DRIVER - ENERGY EFFICIENCY DRIVER WITH MINIMUM 0.9 PF, OPERATING VOLTAGE OF 120-277V, THERMAL MANAGEMENT, MAINTAINS 70% LIGHT OUTPUT. ON-OFF CONTROL.
5. CERTIFICATION - ANSIA LM-79 AND AND LM-80 TESTING STANDARDS. COMPLIES WITH NFPA, NEC, IBC & IFC INSTALLATION CRITERIA.
6. MOUNTING - SURFACE MOUNTED TO EITHER DRYWALL CEILING OR WALL MOUNTING, AS INDICATED, LAMP IN EITHER HORIZONTALY OR VERITICALLY POSITION.
7. OPTIONS - LAMP ADJUSTABLE FROM 0 TO 30 DEGREE TILT.
8. THIS IMAGE IS A NON-PROPRIETARY GRAPHIC REPRESENTATION OF A LUMINAIRE THAT MAY MEET THE SPECIFICATION REQUIREMENTS. IT IS NOT INTENDED TO INDICATE A CERTAIN MANUFACTURER OR PREFERENCE.

COVE LIGHT TYPE F

REVISED: MARCH 2020 | LIGHTING PLATE: NL-32

LUMINAIRE REQUIREMENTS

1. HOUSING - DIE-CAST LOW COPPER ALLOY, ALUMINUM WITH CLEAR ANODIZED FINISH.
2. LENS - SILICONE GASKET, ATTACHES TO HOUSING WITH TWO CAPTIVE 10-32 STAINLESS STEEL, HEX SOCKET CAP SCREWS. TEMPERED PRISMATIC GLASS. UL WET & DAMP LOCATION LISTED.
3. LIGHT SOURCE - SOLID STATE, 3 OR 9 LED, EMITTERSWITH MINIMUM L70/50,000 HOURS RATED LIFE AND MINIMUM EFFICACY OF 3 LED (3.6W) OR 9 LED (10.8W) PER FOOT.
4. DRIVER - POWER ENERGY EFFICIENCY DRIVER WITH MINIMUM 0.9 PF, OPERATING VOLTAGE EITHER 120 VAC OR 277 VAC, SPECIFY VOLTAGE WHEN ORDERING. ON-OFF CONTROL.
5. CERTIFICATION - ANSIA LM-79 AND AND LM-80 TESTING STANDARDS. COMPLIES WITH NFPA, NEC, IBC & IFC INSTALLATION CRITERIA.
6. MOUNTING - HOUSING MOUNTS INTO CONCRETE, BRICK, OR MASONY.
7. OPTIONS - COLOR IN EITHER BLACK, DARK BRONZE, VERDE GREEN.
8. THIS IMAGE IS A NON-PROPRIETARY GRAPHIC REPRESENTATION OF A LUMINAIRE THAT MAY MEET THE SPECIFICATION REQUIREMENTS. IT IS NOT INTENDED TO INDICATE A CERTAIN MANUFACTURER OR PREFERENCE.

EXTERIOR WALLPACK TYPE G

REVISED: MARCH 2020 | LIGHTING PLATE: NL-34

LUMINAIRE REQUIREMENTS:

1. HOUUSING - DIE-FORMED, COLD-ROLLED STEEL, OR FORGED ALUMINUM WITH HEAT SINK. DRIVER MUST BE ACCESSIBLE FROM BOTTOM OF LUMINAIRE. PROVIDE T-BAR HANGERS FOR INSTALLATION IN ACOUSTICAL TILE CEILINGS OR TABS WHEN MOUNTING IN HARD CEILINGS.
2. REFLECTOR AND TRIM - SPECIFICATION GRADE, LOW IRRIDESCENT, SMALL APERATURE WITH DROPPED DECORATIVE LENS, REFLECTOR WITH METALLIC OR PAINTED TRIM RING..
3. LIGHT SOURCE - SOLID STATE LEDS WITH MINIMUM 50K HOURS RATED LIFE AT L70, 3500K CCT UON, MINIMUM 80 CRI, MAXIMUM 4-STEP MCADAM ELLIPSE BINNING TOLERANCE FOR COLOR CONSISTENCY, AND MINIMUM EFFICACY OF 90 LUMENS/WATT. INITIAL LUMEN OUTPUT AS INDICATED IN LUMINAIRE SCHEDULE.
4. DRIVER - REPLACEABLE, INTEGRAL, HIGH-EFFICIENCY DRIVER WITH MINIMUM 0.9 PF, OPERATING VOLTAGE OF 120-277V, THERMAL MANAGEMENT, < 20% TOTAL HARMONIC DISTORTION. ON-OFF CONTROL, STEP-DIMMABLE OR FULLY DIMMABLE AS INDICATED.
5. CERTIFICATION - UL 1598, DAMP LOCATION, DLC QUALIFIED, AND ROHS COMPLIANT. COMPLIES WITH LM79, LM80 AND TM21 TESTING STANDARDS. UL 924 WHEN EQUIPPED WITH EMERGENCY BATTERY BACK-UP.
6. MOUNTING - RECESSED IN HARD OR ACOUSTICAL TILE CEILING.
7. OPTIONS - EMERGENCY BATTERY BACK-UP, WALL-WASH TRIM, IC RATED FOR DIRECT CONTACT WITH INSULATION, VARIOUS APERTURE DIAMETERS, AND VARIOUS GLASS LENSES.
8. THIS SKETCH IS A NON-PROPRIETARY GRAPHIC REPRESENTATION OF A LUMINAIRE THAT MAY MEET THE SPECIFICATION REQUIREMENTS. IT IS NOT INTENDED TO INDICATE A CERTAIN MANUFACTURER OR PREFERENCE.

LED RECESSED LENSED DOWNLIGHT TYPE C1

REVISED: APRIL 2016 | LIGHTING PLATE: NL-20

LUMINAIRE REQUIREMENTS:

1. HOUUSING - DIE-FORMED, COLD-ROLLED STEEL, OR FORGED ALUMINUM WITH HEAT SINK. DRIVER MUST BE ACCESSIBLE FROM BOTTOM OF LUMINAIRE. PROVIDE T-BAR HANGERS FOR INSTALLATION IN ACOUSTICAL TILE CEILINGS OR TABS WHEN MOUNTING IN HARD CEILINGS.
2. REFLECTOR AND TRIM - SPECIFICATION GRADE, LOW IRRIDESCENT, SPECULAR ALUMINUM REFLECTOR WITH METALLIC OR PAINTED TRIM RING..
3. LIGHT SOURCE - SOLID STATE LEDS WITH MINIMUM 50K HOURS RATED LIFE AT L70, 3500K CCT UON, MINIMUM 80 CRI, MAXIMUM 4-STEP MCADAM ELLIPSE BINNING TOLERANCE FOR COLOR CONSISTENCY, AND MINIMUM EFFICACY OF 90 LUMENS/WATT. INITIAL LUMEN OUTPUT AS INDICATED IN LUMINAIRE SCHEDULE.
4. DRIVER - REPLACEABLE, INTEGRAL, HIGH-EFFICIENCY DRIVER WITH MINIMUM 0.9 PF, OPERATING VOLTAGE OF 120-277V, THERMAL MANAGEMENT, < 20% TOTAL HARMONIC DISTORTION. ON-OFF CONTROL, STEP-DIMMABLE OR FULLY DIMMABLE AS INDICATED.
5. CERTIFICATION - UL 1598, DAMP LOCATION, DLC QUALIFIED, AND ROHS COMPLIANT. COMPLIES WITH LM79, LM80 AND TM21 TESTING STANDARDS. UL 924 WHEN EQUIPPED WITH EMERGENCY BATTERY BACK-UP.
6. MOUNTING - SURFACE CEILING MOUNT.
7. OPTIONS - EMERGENCY BATTERY BACK-UP, WALL-WASH TRIM, IC RATED FOR DIRECT CONTACT WITH INSULATION, VARIOUS APERTURE DIAMETERS, AND VARIOUS GLASS LENSES.
8. THIS SKETCH IS A NON-PROPRIETARY GRAPHIC REPRESENTATION OF A LUMINAIRE THAT MAY MEET THE SPECIFICATION REQUIREMENTS. IT IS NOT INTENDED TO INDICATE A CERTAIN MANUFACTURER OR PREFERENCE.

LED PENDANT DOWNLIGHT TYPE P2

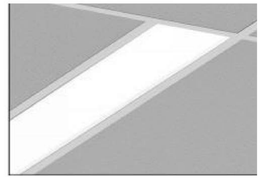
REVISED: APRIL 2016 | LIGHTING PLATE: NL-21

LUMINAIRE REQUIREMENTS:

1. HOUUSING - DIE-FORMED, COLD-ROLLED STEEL, OR FORGED ALUMINUM WITH HEAT SINK. DRIVER MUST BE ACCESSIBLE FROM BOTTOM OF LUMINAIRE. PROVIDE T-BAR HANGERS FOR INSTALLATION IN ACOUSTICAL TILE CEILINGS OR TABS WHEN MOUNTING IN HARD CEILINGS.
2. REFLECTOR AND TRIM - SPECIFICATION GRADE, LOW IRRIDESCENT, SPECULAR ALUMINUM REFLECTOR WITH METALLIC OR PAINTED TRIM RING..
3. LIGHT SOURCE - SOLID STATE LEDS WITH MINIMUM 50K HOURS RATED LIFE AT L70, 3500K CCT UON, MINIMUM 80 CRI, MAXIMUM 4-STEP MCADAM ELLIPSE BINNING TOLERANCE FOR COLOR CONSISTENCY, AND MINIMUM EFFICACY OF 90 LUMENS/WATT. INITIAL LUMEN OUTPUT AS INDICATED IN LUMINAIRE SCHEDULE.
4. DRIVER - REPLACEABLE, INTEGRAL, HIGH-EFFICIENCY DRIVER WITH MINIMUM 0.9 PF, OPERATING VOLTAGE OF 120-277V, THERMAL MANAGEMENT, < 20% TOTAL HARMONIC DISTORTION. ON-OFF CONTROL, STEP-DIMMABLE OR FULLY DIMMABLE AS INDICATED.
5. CERTIFICATION - UL 1598, DAMP LOCATION, DLC QUALIFIED, AND ROHS COMPLIANT. COMPLIES WITH LM79, LM80 AND TM21 TESTING STANDARDS. UL 924 WHEN EQUIPPED WITH EMERGENCY BATTERY BACK-UP.
6. MOUNTING - SURFACE CEILING MOUNT.
7. OPTIONS - EMERGENCY BATTERY BACK-UP, WALL-WASH TRIM, IC RATED FOR DIRECT CONTACT WITH INSULATION, VARIOUS APERTURE DIAMETERS, AND VARIOUS GLASS LENSES.
8. THIS SKETCH IS A NON-PROPRIETARY GRAPHIC REPRESENTATION OF A LUMINAIRE THAT MAY MEET THE SPECIFICATION REQUIREMENTS. IT IS NOT INTENDED TO INDICATE A CERTAIN MANUFACTURER OR PREFERENCE.

LED PENDANT TYPE P1

REVISED: APRIL 2016 | LIGHTING PLATE: NL-22



LUMINAIRE REQUIREMENTS:

1. HOUUSING - DIE-FORMED, COLD-ROLLED STEEL, OR FORGED ALUMINUM WITH HEAT SINK. DRIVER MUST BE ACCESSIBLE FROM BOTTOM OF LUMINAIRE. PROVIDE T-BAR HANGERS FOR INSTALLATION IN ACOUSTICAL TILE CEILINGS OR TABS WHEN MOUNTING IN HARD CEILINGS.
2. REFLECTOR AND TRIM - SPECIFICATION GRADE, LOW IRRIDESCENT, SPECULAR ALUMINUM REFLECTOR WITH METALLIC OR PAINTED TRIM RING..
3. LIGHT SOURCE - SOLID STATE LEDS WITH MINIMUM 50K HOURS RATED LIFE AT L70, 3500K CCT UON, MINIMUM 80 CRI, MAXIMUM 4-STEP MCADAM ELLIPSE BINNING TOLERANCE FOR COLOR CONSISTENCY, AND MINIMUM EFFICACY OF 90 LUMENS/WATT. INITIAL LUMEN OUTPUT AS INDICATED IN LUMINAIRE SCHEDULE.
4. DRIVER - REPLACEABLE, INTEGRAL, HIGH-EFFICIENCY DRIVER WITH MINIMUM 0.9 PF, OPERATING VOLTAGE OF 120-277V, THERMAL MANAGEMENT, < 20% TOTAL HARMONIC DISTORTION. ON-OFF CONTROL, STEP-DIMMABLE OR FULLY DIMMABLE AS INDICATED.
5. CERTIFICATION - UL 1598, DAMP LOCATION, DLC QUALIFIED, AND ROHS COMPLIANT. COMPLIES WITH LM79, LM80 AND TM21 TESTING STANDARDS. UL 924 WHEN EQUIPPED WITH EMERGENCY BATTERY BACK-UP.
6. MOUNTING - COMPATIBLE WITH MONOPOINT, MULTIPOINT RECESSED TRACK, SUSPENSION SYSTEMS, SLOPPED CEILING ADAPTERSAS WELL AS BASIC ADVENT AND RADIUS TRACK SYSTEMS.
7. OPTIONS - WALL-WASH TRIM, IC RATED FOR DIRECT CONTACT WITH INSULATION, VARIOUS APERTURE DIAMETERS, AND VARIOUS GLASS LENSES.
8. THIS SKETCH IS A NON-PROPRIETARY GRAPHIC REPRESENTATION OF A LUMINAIRE THAT MAY MEET THE SPECIFICATION REQUIREMENTS. IT IS NOT INTENDED TO INDICATE A CERTAIN MANUFACTURER OR PREFERENCE.

LED TRACK LIGHT TYPE L

REVISED: APRIL 2016 | LIGHTING PLATE: NL-23

LUMINAIRE REQUIREMENTS:

1. HOUSING - DIE-FORMED, COLD ROLLED STEEL, WITH ONE-PIECE LOWER REFLECTOR HAVING TEXTURED, HIGH REFLECTANCE, WHITE POLYESTER POWDER-COATED FINISH. OPTIONAL SIZES OF 1FT x 4FT, 2FT x 2FT, AND 2FT x 4FT AVAILABLE.
2. LIGHT SOURCE - UPWARD-FACING LEDS WITH DIFFUSE LENS TO ELIMINATE DIRECT VIEW OF LIGHT SOURCE. 3500K COLOR TEMPERATURE UON, MAXIMUM BINNING TOLERANCE OF A 4-STEP MCADAM ELLIPSE, MINIMUM EFFICACY OF 90 LUMENS/WATT, WITH A MINIMUM CRI OF 80. INITIAL LUMEN OUTPUT AS INDICATED IN LUMINAIRE SCHEDULE.
3. DRIVER - REPLACEABLE, INTEGRAL, HIGH-EFFICIENCY DRIVER WITH MINIMUM 0.9 PF, OPERATING VOLTAGE OF 120-277V, THERMAL MANAGEMENT, < 20% TOTAL HARMONIC DISTORTION. STEP-DIMMABLE OR FULLY DIMMABLE AS INDICATED IN LUMINAIRE SCHEDULE.
4. CERTIFICATION - UL 1598, DAMP LOCATION, DLC QUALIFIED, AND ROHS COMPLIANT. COMPLIES WITH LM79, LM80 AND TM21 TESTING STANDARDS. UL 924 WHEN EQUIPPED WITH EMERGENCY BATTERY BACK-UP. IC RATED WHEN INDICATED.
5. MOUNTING - RECESSED IN SUSPENDED ACOUSTICAL TILE OR HARD CEILING.
6. THIS SKETCH IS A NON-PROPRIETARY GRAPHIC REPRESENTATION OF A LUMINAIRE THAT MAY MEET THE SPECIFICATION REQUIREMENTS. IT IS NOT INTENDED TO INDICATE A CERTAIN MANUFACTURER OR PREFERENCE.

RECESSED LED TROFFER TYPE A

REVISED: APRIL 2016 | LIGHTING PLATE: NL-1

US Army Corps of Engineers ®

MARK	DESCRIPTION	DATE

ISSUE DATE: 01 MARCH 2023
SOLICITATION NO.: W912DS-19-R-0014
CONTRACT NO.: W912DS-19-C-0031-L
FILE NUMBER:

DESIGNED BY: D. PAXTON
DRAWN BY: D. PAXTON
CHECKED BY: Y. SOLOMON
SUBMITTED BY:
SIZE: ANSI D
FILE NAME:

US ARMY CORPS OF ENGINEERS
LINCOLN HALL
WEST POINT, NEW YORK

JACOBS / EWING COLE *A Joint Venture*

BUILDING S 605/607 RENOVATION - LINCOLN HALL

DETAILS

SHEET ID

E-504

REVISED RTA SUBMISSION 3/1/2023

LUMINAIRE REQUIREMENTS

1. HOUSING - DIE-CAST LOW COPPER ALLOY, ALUMINUM WITH POLYESTER POWDER COATED BAKED FINISH.
2. LENS - SILICONE GASKET, ATTACHES TO HOUSING WITH TWO CAPTIVE 10-32 STAINLESS STEEL, SIX CLEAR ACRYLIC LENSES. UL WET & DAMP LOCATION LISTED.
3. LIGHT SOURCE - SOLID STATE, 3 OR 9 LED, EMITTERSWITH MINIMUM L70/50,000 HOURS RATED LIFE AND MINIMUM EFFICACY OF 3 LED (3.6W) OR 9 LED (10.8W) PER FOOT.
4. DRIVER - POWER ENERGY EFFICIENCY DRIVER WITH MINIMUM 0.9 PF, OPERATING VOLTAGE EITHER 120 VAC OR 277 VAC, SPECIFY VOLTAGE WHEN ORDERING. ON-OFF CONTROL. MINIMUM OPERATING TEMPERATURE OF -40F.
5. CERTIFICATION - ANSIA LM-79 AND AND LM-80 TESTING STANDARDS. COMPLIES WITH NFPA, NEC, IBC & IFC INSTALLATION CRITERIA.
6. MOUNTING - WALL MOUNTING PLATE AFFIXED TO RECESSED JUNCTION BOX IN CONCRETE, BRICK, OR MASONY.
7. OPTIONS - COLOR IN EITHER BLACK, DARK BRONZE, VERDE GREEN.
8. THIS IMAGE IS A NON-PROPRIETARY GRAPHIC REPRESENTATION OF A LUMINAIRE THAT MAY MEET THE SPECIFICATION REQUIREMENTS. IT IS NOT INTENDED TO INDICATE A CERTAIN MANUFACTURER OR PREFERENCE.

EXTERIOR LED WALL SCONCE TYPE G1

REVISED: MARCH 2020 | LIGHTING PLATE: NL-34

LUMINAIRE REQUIREMENTS

1. HOUSING - UNITS MOUNTED EXPOSED TO THE ENVIRONMENT SHALL HAVE A DAMP OR WET U.L. LABEL AS APPROPRIATE, ONE-PEICE GASKET SEAL, AND SHALL NOT BE CONSTRUCTED OF STEEL. INTERNAL PROVISIONS FOR GROUNDING. CAST-ALUMINUM, CORROSION-RESISTANT HOUSING WITH POLYESTER POWDER PAINT.
2. LENS - IMPACT-RESISTANT, TRANSLUCENT OR FROSTED LENS.
3. LIGHT SOURCE - SOLID STATE LEDS WITH MINIMUM L70/50,000 HOURS RATED LIFE AND MINIMUM EFFICACY OF 400 LUMENS/WATT.
4. DRIVER - ENERGY EFFICIENCY DRIVER WITH MINIMUM 0.9 PF, OPERATING VOLTAGE OF 120-277V, THERMAL MANAGEMENT, MAINTAINS 70% LIGHT OUTPUT. ON-OFF CONTROL.
5. CERTIFICATION - ANSI/UL LM-79 AND AND LM-80 TESTING STANDARDS. COMPLIES WITH NFPA, NEC, IBC & IFC INSTALLATION CRITERIA.
6. MOUNTING - SURFACE MOUNTED TO EITHER HARD CEILING OR CANOPY OR PENDANT MOUNTING AS INDICATED.
7. OPTIONS - POLYESTER POWDER PAINT COLOR IN EITHER DARK BRONZE OR WHITE.
8. THIS IMAGE IS A NON-PROPRIETARY GRAPHIC REPRESENTATION OF A LUMINAIRE THAT MAY MEET THE SPECIFICATION REQUIREMENTS. IT IS NOT INTENDED TO INDICATE A CERTAIN MANUFACTURER OR PREFERENCE.

LED WALL LIGHT TYPE M

REVISED: MARCH 2020 | LIGHTING PLATE: NL-31

LUMINAIRE REQUIREMENTS:

1. HOUUSING - DIE-FORMED, COLD-ROLLED STEEL, OR FORGED ALUMINUM WITH HEAT SINK. DRIVER MUST BE ACCESSIBLE FROM BOTTOM OF LUMINAIRE. PROVIDE T-BAR HANGERS FOR INSTALLATION IN ACOUSTICAL TILE CEILINGS OR TABS WHEN MOUNTING IN HARD CEILINGS.
2. REFLECTOR AND TRIM - SPECIFICATION GRADE, LOW IRRIDESCENT, SPECULAR ALUMINUM REFLECTOR WITH METALLIC OR PAINTED TRIM RING..
3. LIGHT SOURCE - SOLID STATE LEDS WITH MINIMUM 50K HOURS RATED LIFE AT L70, 3500K CCT UON, MINIMUM 80 CRI, MAXIMUM 4-STEP MCADAM ELLIPSE BINNING TOLERANCE FOR COLOR CONSISTENCY, AND MINIMUM EFFICACY OF 90 LUMENS/WATT. INITIAL LUMEN OUTPUT AS INDICATED IN LUMINAIRE SCHEDULE.
4. DRIVER - REPLACEABLE, INTEGRAL, HIGH-EFFICIENCY DRIVER WITH MINIMUM 0.9 PF, OPERATING VOLTAGE OF 120-277V, THERMAL MANAGEMENT, < 20% TOTAL HARMONIC DISTORTION. ON-OFF CONTROL, STEP-DIMMABLE OR FULLY DIMMABLE AS INDICATED.
5. CERTIFICATION - UL 1598, DAMP LOCATION, DLC QUALIFIED, AND ROHS COMPLIANT. COMPLIES WITH LM79, LM80 AND TM21 TESTING STANDARDS.
6. MOUNTING - PENDANT MOUNT.
7. OPTIONS - WALL-WASH TRIM, IC RATED FOR DIRECT CONTACT WITH INSULATION, VARIOUS APERTURE DIAMETERS, AND OPTICAL SYSTEM WITH PRIMARY AND SECONDARY OPTICS.
8. THIS SKETCH IS A NON-PROPRIETARY GRAPHIC REPRESENTATION OF A LUMINAIRE THAT MAY MEET THE SPECIFICATION REQUIREMENTS. IT IS NOT INTENDED TO INDICATE A CERTAIN MANUFACTURER OR PREFERENCE.

LED PENDANT DOWNLIGHT TYPE P3

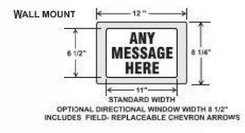
REVISED: APRIL 2016 | LIGHTING PLATE: NL-25

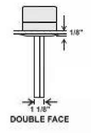
LUMINAIRE REQUIREMENTS:

1. HOUSING - METALIC HOUSING WITH AIRCRAFT CABLE SUPPORT A SINGLE RING, PENDANT MOUNTED, COOL STEEL FINISH.
2. INTERFACING LENS - ACRYLIC GLOBE LENS AND LED LIGHT SOURCE.
3. LIGHT SOURCE - DIRECT/INDIRECT SOLID STATE LEDS WITH MINIMUM 50K HOURS RATED LIFE AT L70, 3500 CCT UON, MINIMUM 80 CRI WITH WHITE LEDs ONLY. DELIVERED LUMENS & LPW BASED ON 3500K. +80 CRI COLOR CONSISTENCY, AND MINIMUM EFFICACY OF 200 LUMENS/WATT. INITIAL LUMEN OUTPUT AS INDICATED IN LUMINAIRE SCHEDULE.
4. DRIVER - REPLACEABLE, HIGH-EFFICIENCY DRIVER, WIRE CONNECTION & OPERATING MULTI-VOLTAGE @ 120-277V, THERMAL MANAGEMENT, <20% THD. ON-OFF CONTROL OR FULLY DIMMABLE AS INDICATED.
5. CERTIFICATION - UL 1598, DAMP LOCATION (INDOOR USE ONLY), DLC QUALIFIED, AND ROHS COMPLIANT. COMPLIES WITH LM79, LM80 AND TM21 TESTING STANDARDS.
6. MOUNTING - SUSPENDED FROM HARD CEILING WITH AIRCRAFT CABLE, WITH POWER CABLE ATTACHING TO CABLE FROM CEILING OUTLET & PLATE. MULTIPLE-POINT ANCHORING FOR SUPPORT.
7. OPTIONS - NONE.
8. THIS IMAGE OR GRAPHIC REPRESENTATION OF A LUMINAIRE THAT MAY MEET THE SPECIFICATION REQUIREMENTS. IT IS NOT INTENDED TO INDICATE A CERTAIN MANUFACTURER OR PREFERENCE.

ROUND LED PENDANT TYPE P4

REVISED: APRIL 2020 | LIGHTING PLATE: NL-26





LUMINAIRE REQUIREMENTS

1. HOUSING - UNIT WITH ULTRA SLIM DIECAST ALUMINUM RUGGED IMPACT RESISTANT. INTERNAL PROVISIONS FOR GROUNDING.
2. LENS - IMPACT-RESISTANT ACRYLIC - RED OR GREEN STENCIL FACE.
3. LIGHT SOURCE - SOLID STATE LEDS WITH MINIMUM 50K HOURS RATED LIFE AND MINIMUM EFFICACY OF 10 LUMENS/WATT.
4. DRIVER - ENERGY EFFICIENCY DRIVER WITH MINIMUM 0.9 PF, OPERATING VOLTAGE OF 120-277V, THERMAL MANAGEMENT, < 20% TOTAL HARMONIC DISTORTION. ON-OFF CONTROL.
5. CERTIFICATION - ANSI/UL 924 AND TESTING STANDARDS. COMPLIES WITH NFPA 5000, NEC 700 & 701, IBC & IFC INSTALLATION CRITERIA.
6. MOUNTING - SURFACE MOUNTED TO EITHER HARD OR ACOUSTICAL TILE CEILING, END WALL, BACK WALL OR WALL VERTICAL AND TOP VERTICAL MOUNTING AS INDICATED.
7. OPTIONS - INTERNATIONAL SYMBOL OF ACCESS ON SIGN WHEN INDICATED. EITHER SINGLE OR DOUBLE FACE, AS INDICATED.
8. THIS IMAGE IS A NON-PROPRIETARY GRAPHIC REPRESENTATION OF A LUMINAIRE THAT MAY MEET THE SPECIFICATION REQUIREMENTS. IT IS NOT INTENDED TO INDICATE A CERTAIN MANUFACTURER OR PREFERENCE.

TYPE A - ALUMINUM OR PAINTED STEEL HOUSING AND STENCIL FACE. (SEE NOTE 8.)

TYPE B - PLASTIC HOUSING ENCLOSED IN POLYCARBONATE WITH STENCIL ON INSIDE OF POLYCARBONATE HOUSING. (SEE NOTE 8.)

DIE CAST LED SIGNAGE "ON AIR" TYPE N

REVISED: MARCH 2020 | LIGHTING PLATE: NL-27

LUMINAIRE REQUIREMENTS:

1. HOUSING - DIE-FORMED, EXTRUDED ALUMINUM, WITH REINFORCEMENT RIBS FOR RIGIDITY; END CAPS SAME MATERIAL AS HOUSING, SECURED WITH TABS, SCREWS OR RIVETS. WHITE ENAMEL FINISH APPLIED AFTER FABRICATION. OPTIONAL LENGTHS OF 2FT THROUGH 12FT.
2. LENS - ACRYLIC PRISMATIC OR WHITE OPAL TO PROVIDE EVEN ILLUMINATION AND TO ELIMINATE PIXILATION FROM LED LIGHT SOURCE.
3. LIGHT SOURCE - SOLID STATE LEDS WITH MINIMUM 50K HOURS RATED LIFE AT L70, 3500K CCT UON, MINIMUM 80 CRI, MAXIMUM 4-STEP MCADAM ELLIPSE BINNING TOLERANCE FOR COLOR CONSISTENCY, AND MINIMUM EFFICACY OF 94 LUMENS/WATT. INITIAL LUMEN OUTPUT AS INDICATED IN LUMINAIRE SCHEDULE.
4. DRIVER - REPLACEABLE, INTEGRAL, HIGH-EFFICIENCY DRIVER WITH MINIMUM 0.9 PF, OPERATING VOLTAGE OF 120-277V, THERMAL MANAGEMENT, < 20% TOTAL HARMONIC DISTORTION. ON-OFF CONTROL, STEP-DIMMABLE OR FULLY DIMMABLE AS INDICATED.
5. CERTIFICATION - UL 1598, DAMP LOCATION, DLC QUALIFIED, AND ROHS COMPLIANT. COMPLIES WITH LM79, LM80 AND TM21 TESTING STANDARDS. UL 924 WHEN EQUIPPED WITH EMERGENCY BATTERY BACK-UP.
6. MOUNTING - SURFACE.
7. OPTIONS - INTEGRAL MOTION SENSOR, EMERGENCY BACK-UP.
8. THIS SKETCH IS A NON-PROPRIETARY GRAPHIC REPRESENTATION OF A LUMINAIRE THAT MAY MEET THE SPECIFICATION REQUIREMENTS. IT IS NOT INTENDED TO INDICATE A CERTAIN MANUFACTURER OR PREFERENCE.

SURFACE MOUNTED LED TYPE W4

REVISED: | LIGHTING PLATE: NL-28

US Army Corps of Engineers ®

MARK	DESCRIPTION	DATE

ISSUE DATE: 01 MARCH 2023
SOLICITATION NO.: W912DS-19-R-0014
CONTRACT NO.: W912DS-19-C-0031-L
FILE NUMBER:

DESIGNED BY: D. PAXTON
DRAWN BY: D. PAXTON
CHECKED BY: Y. SOLOMON
SUBMITTED BY:
SIZE: ANSI 'D'
FILE NAME:

US ARMY CORPS OF ENGINEERS
LINCOLN HALL
WEST POINT, NEW YORK

JACOBS / EWING COLE A Joint Venture

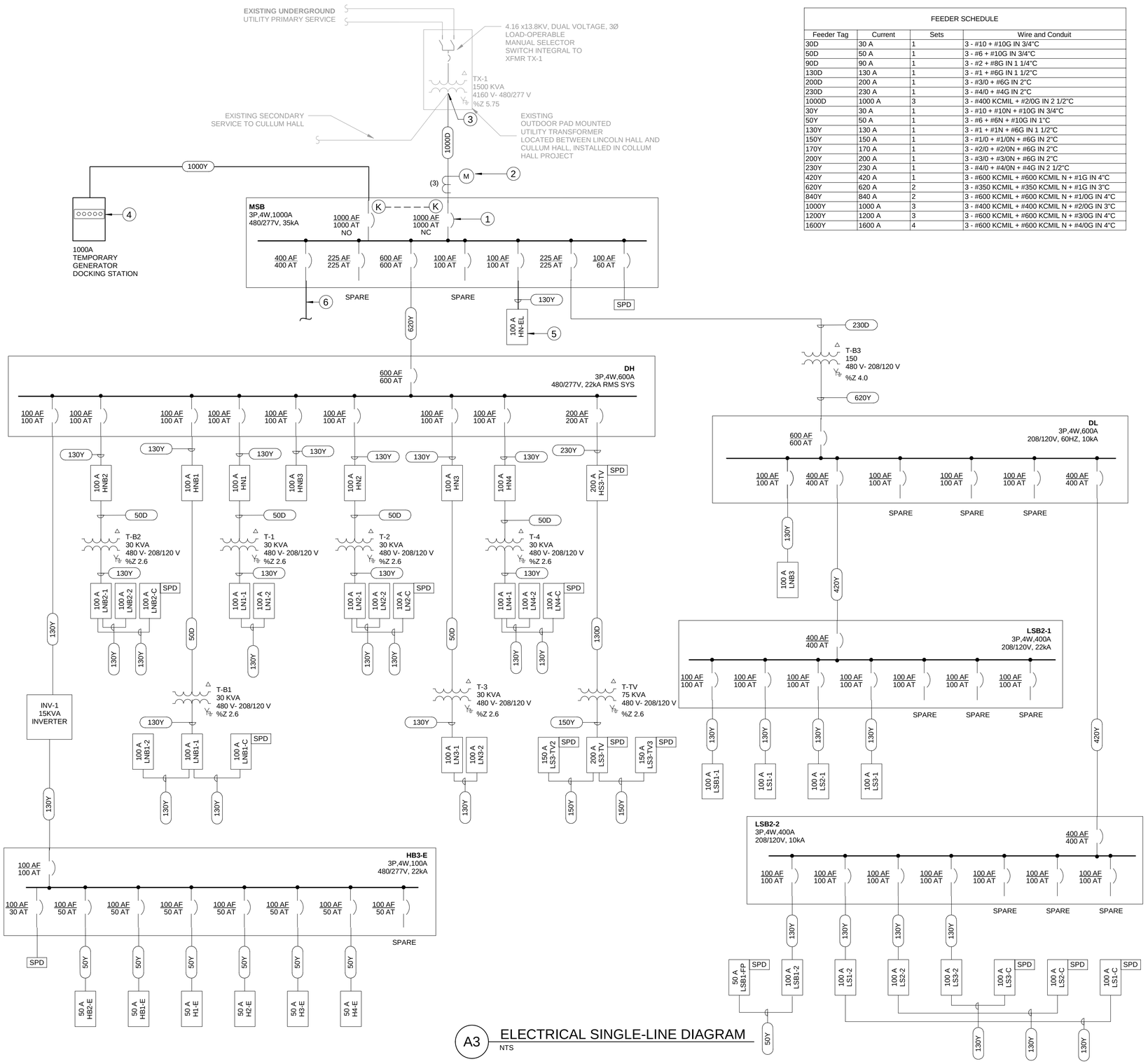
BUILDINGS 605/607 RENOVATION - LINCOLN HALL

DETAILS

SHEET ID

E-505

REVISED RTA SUBMISSION 3/1/2023



A3 ELECTRICAL SINGLE-LINE DIAGRAM
NTS

FEEDER SCHEDULE			
Feeder Tag	Current	Sets	Wire and Conduit
30D	30 A	1	3 - #10 + #10G IN 3/4"C
50D	50 A	1	3 - #6 + #10G IN 3/4"C
90D	90 A	1	3 - #2 + #8G IN 1 1/4"C
130D	130 A	1	3 - #1 + #6G IN 1 1/2"C
200D	200 A	1	3 - #3/0 + #6G IN 2"C
230D	230 A	1	3 - #4/0 + #4G IN 2"C
1000D	1000 A	3	3 - #400 KCMIL + #2/0G IN 2 1/2"C
30Y	30 A	1	3 - #10 + #10N + #10G IN 3/4"C
50Y	50 A	1	3 - #6 + #6N + #10G IN 1"C
130Y	130 A	1	3 - #1 + #1N + #6G IN 1 1/2"C
150Y	150 A	1	3 - #1/0 + #1/0N + #6G IN 2"C
170Y	170 A	1	3 - #2/0 + #2/0N + #6G IN 2"C
200Y	200 A	1	3 - #3/0 + #3/0N + #6G IN 2"C
230Y	230 A	1	3 - #4/0 + #4/0N + #4G IN 2 1/2"C
420Y	420 A	1	3 - #600 KCMIL + #600 KCMIL N + #1G IN 4"C
620Y	620 A	2	3 - #350 KCMIL + #350 KCMIL N + #1G IN 3"C
840Y	840 A	2	3 - #600 KCMIL + #600 KCMIL N + #1/0G IN 4"C
1000Y	1000 A	3	3 - #400 KCMIL + #400 KCMIL N + #2/0G IN 3"C
1200Y	1200 A	3	3 - #600 KCMIL + #600 KCMIL N + #3/0G IN 4"C
1600Y	1600 A	4	3 - #600 KCMIL + #600 KCMIL N + #4/0G IN 4"C

GENERAL NOTES

1. REFER TO DRAWING SHEETS E-001, AND E-002 FOR ELECTRICAL GENERAL NOTES, ABBREVIATIONS, AND SYMBOLS.
2. REFER TO DRAWING SHEET E-602 FOR ELECTRICAL RISER DIAGRAMS.
3. REFER TO DRAWING SHEET ES-100 FOR ELECTRICAL SITE PLAN.
4. UTILITY SERVICE WIRING MUST BE SUBMITTED TO THE UTILITY COMPANY CLP FOR APPROVAL PRIOR TO PROCURMENT AND INSTALLATION.
5. ALL THE CIRCUIT BREAKERS SHOWN IN THIS SINGLE - LINE DIAGRAM ARE 3 POLE UNLESS OTHERWISE NOTED.
6. ALL PANELBOARDS MUST BE FED FROM A DEDICATED CIRCUIT AND CIRCUIT BREAKERS. FEED THRU PANELBOARDS ARE NOT PERMITTED.

(#) KEYNOTES

1. 100% RATED BREAKER WITH GROUND FAULT PROTECTION.
2. BUILDING POWER METER MUST BE SHARK 200. CONNECT METER TO DPW BASE-WIDE POWER MONITORING SYSTEM.
3. COORDINATE WITH GOVERNMENT AND UTILITY COMPANY (CLP) PRIOR TO SHUTDOWN, TO CONNECT TO UTILITY TRANSFORMER.
4. TEMPORARY GENERATOR DOCKING STATION. BASIS OF DESIGN: TRISTAR GDS. REFER TO KEY NOTE #2 ON EP101 FOR LOCATION OF THE DOCKING STATION.
5. ELEVATOR MACHINE ROOM PANELBOARD. COORDINATE ELEVATOR'S REQUIRED CIRCUIT PROTECTION EQUIPMENT, WITH ELEVATOR MANUFACTURER.
6. PROVIDE TWO EMPTY 4" CONDUITS TO PROPOSED TEMPORARY CHILLER LOCATION. COORDINATE TEMPORARY CHILLER'S LOCATION WITH MECHANICAL PLANS. COORDINATE CIRCUIT BREAKER WITH EQUIPMENT PROVIDED.

PANELBOARD/SWITCHBOARD SUMMARY								
PANEL ID	LOCATION	V	MCB/ MLO	MCB Rating	BUS RATING	INCOMING FEEDER SIZE	SHORT CIRCUIT RATING	PROVIDE PANEL MAIN METER
208 V								
DL	ELECTRICAL B303	208 V	MCB	600 A	600 A	620Y	10KA	Yes
LN1-1	ELECTRICAL CLOSET 181	208 V	MCB	100 A	100 A	130Y	10KA	Yes
LN1-2	ELECTRICAL CLOSET 181	208 V	MCB	100 A	100 A	130Y	10KA	Yes
LN2-1	ELECTRICAL CLOSET 241	208 V	MCB	100 A	100 A	130Y	10KA	Yes
LN2-2	ELECTRICAL CLOSET 241	208 V	MCB	100 A	100 A	130Y	10KA	Yes
LN2-C	TELECOM 242	208 V	MCB	100 A	100 A	130Y	10KA	Yes
LN3-1	ELECTRICAL CLOSET 361	208 V	MCB	100 A	100 A	130Y	10KA	Yes
LN3-2	ELECTRICAL CLOSET 361	208 V	MCB	100 A	100 A	130Y	10KA	Yes
LN4-1	ELECTRICAL CLOSET 421	208 V	MCB	100 A	100 A	130Y	10KA	Yes
LN4-2	ELECTRICAL CLOSET 421	208 V	MCB	100 A	100 A	130Y	10KA	Yes
LN4-C	TELECOM 422	208 V	MCB	100 A	100 A	130Y	10KA	Yes
LNB1-1	ELECTRICAL CLOSET B171	208 V	MCB	100 A	100 A	130Y	10KA	Yes
LNB1-2	ELECTRICAL CLOSET B171	208 V	MCB	100 A	100 A	130Y	10KA	Yes
LNB1-C	TELECOM B172	208 V	MCB	100 A	100 A	130Y	10KA	Yes
LNB2-1	ELECTRICAL CLOSET B235	208 V	MCB	100 A	100 A	130Y	10KA	Yes
LNB2-2	ELECTRICAL CLOSET B235	208 V	MCB	100 A	100 A	130Y	10KA	Yes
LNB2-C	TELECOM B237	208 V	MCB	100 A	100 A	130Y	10KA	Yes
LNB3	ELECTRICAL B303	208 V	MCB	100 A	100 A	130Y	10KA	Yes
LS1-1	ELECTRICAL CLOSET 146	208 V	MCB	100 A	100 A	130Y	10KA	Yes
LS1-2	ELECTRICAL CLOSET 146	208 V	MCB	100 A	100 A	130Y	10KA	Yes
LS1-C	TELECOM 145	208 V	MCB	100 A	100 A	130Y	10KA	Yes
LS2-1	ELECTRICAL CLOSET 209	208 V	MCB	100 A	100 A	130Y	10KA	Yes
LS2-2	ELECTRICAL CLOSET 209	208 V	MCB	100 A	100 A	130Y	10KA	Yes
LS2-C	TELECOM 219	208 V	MCB	100 A	100 A	130Y	10KA	Yes
LS3-1	ELECTRICAL CLOSET 337	208 V	MCB	100 A	100 A	130Y	10KA	Yes
LS3-2	ELECTRICAL CLOSET 337	208 V	MCB	100 A	100 A	130Y	10KA	Yes
LS3-C	TELECOM 325	208 V	MCB	100 A	100 A	130Y	10KA	Yes
LS3-TV	ELECTRICAL 316	208 V	MCB	200 A	200 A	230Y	10KA	Yes
LS3-TV2	SERVER ROOM / MCR 314	208 V	MCB	150 A	150 A	150Y	10KA	Yes
LS3-TV3	SERVER ROOM / MCR 314	208 V	MCB	150 A	150 A	150Y	10KA	Yes
LSB1-1	ELECTRICAL CLOSET B107	208 V	MCB	100 A	100 A	130Y	10KA	Yes
LSB1-2	ELECTRICAL CLOSET B107	208 V	MCB	100 A	100 A	130Y	10KA	Yes
LSB1-FP	AD LAW CORRIDOR B110	208 V	MCB	50 A	100 A	150Y	10KA	Yes
LSB2-1	ELECTRICAL CLOSET B215	208 V	MCB	400 A	400 A	420Y	10KA	Yes
LSB2-2	ELECTRICAL CLOSET B215	208 V	MCB	400 A	400 A	420Y	10KA	Yes
480 V								
DH	ELECTRICAL B303	480 V	MCB	600 A	600 A	620Y	22KA	Yes
H1-E	ELECTRICAL CLOSET 181	480 V	MCB	50 A	50 A	50Y	22KA	Yes
H2-E	ELECTRICAL CLOSET 241	480 V	MCB	50 A	100 A	50Y	22KA	Yes
H3-E	ELECTRICAL CLOSET 361	480 V	MCB	50 A	100 A	50Y	22KA	Yes
H4-E	ELECTRICAL CLOSET 421	480 V	MCB	50 A	100 A	50Y	22KA	Yes
HB1-E	ELECTRICAL CLOSET B171	480 V	MCB	50 A	50 A	50Y	22KA	Yes
HB2-E	ELECTRICAL CLOSET B235	480 V	MCB	50 A	50 A	50Y	22KA	Yes
HB3-E	ELECTRICAL B303	480 V	MCB	100 A	100 A	130Y	22KA	Yes
HN1	ELECTRICAL CLOSET 181	480 V	MCB	100 A	100 A	130Y	22KA	Yes
HN2	ELECTRICAL CLOSET 241	480 V	MCB	100 A	100 A	130Y	22KA	Yes
HN3	ELECTRICAL CLOSET 361	480 V	MCB	100 A	100 A	130Y	22KA	Yes
HN4	ELECTRICAL CLOSET 421	480 V	MCB	100 A	100 A	130Y	22KA	Yes
HN-EL	ELEV MACHINE RM R101	480 V	MCB	100 A	100 A	130Y	22KA	Yes
HNB1	ELECTRICAL CLOSET B171	480 V	MCB	100 A	100 A	130Y	22KA	Yes
HNB2	ELECTRICAL CLOSET B235	480 V	MCB	100 A	100 A	130Y	22KA	Yes
HNB3	ELECTRICAL B303	480 V	MCB	100 A	100 A	130Y	22KA	Yes
HS3-TV	ELECTRICAL 316	480 V	MCB	200 A	200 A	230Y	22KA	Yes
MSB	ELECTRICAL B303	480 V	MCB	1000 A	1000 A	1000Y	35KA	Yes

NOTES:
1. CONNECT ALL PANELBOARD POWER METERS TO THE BUILDING AUTOMATION SYSTEM (BAS) UNLESS OTHERWISE NOTED. COORDINATE WITH MECHANICAL PLANS FOR CONNECTION REQUIRMENTS TO THE BAS.

US Army Corps of Engineers ®

MARK	DESCRIPTION	DATE

DESIGNED BY:	D. PAXTON
DRAWN BY:	D. PAXTON
CHECKED BY:	Y. SOLOMON
SUBMITTED BY:	
SIZE:	ANSI 'D'
FILE NAME:	

US ARMY CORPS OF ENGINEERS
LINCOLN HALL
WEST POINT, NEW YORK

JACOBS / EWING COLE A Joint Venture

ISSUE DATE:	01 MARCH 2023
SOLICITATION NO.:	W912DS-19-R-0014
CONTRACT NO.:	W912DS-19-C-0031-L
FILE NUMBER:	

BUILDINGS 605/607 RENOVATION - LINCOLN HALL

SINGLE LINE DIAGRAM

SHEET ID

E-601

REVISED RTA SUBMISSION 3/1/2023

A1 POWER RISER DIAGRAM
NTS

GENERAL NOTES

1. REFER TO DRAWING SHEETS E-001, AND E-002 FOR ELECTRICAL GENERAL NOTES, ABBREVIATIONS, AND SYMBOLS.
2. REFER TO DRAWING SHEET E-601 FOR ELECTRICAL SINGLE-LINE DIAGRAM.
3. REFER TO E-700 SERIES DRAWING FOR ELECTRICAL PANEL SCHEDULES.
4. REFER TO DRAWING SHEET ES100 FOR ELECTRICAL SITE PLAN.

(#) KEYNOTES

1. FEEDERS THAT SERVE EQUIPMENT LOCATED ON SOUTH WING OF THE BUILDING, MUST CROSS TO THE SOUTH SIDE ON B2 LEVEL.

US Army Corps of Engineers ®

MARK	DESCRIPTION	DATE

DESIGNED BY: D. PAXTON
DRAWN BY: D. PAXTON
CHECKED BY: Y. SOLOMON
SUBMITTED BY:
SIZE: ANSI D
ISSUE DATE: 01 MARCH 2023
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US ARMY CORPS OF ENGINEERS
LINCOLN HALL
WEST POINT, NEW YORK

JACOBS / EWING COLE A Joint Venture

BUILDINGS 605/607 RENOVATION - LINCOLN HALL

POWER RISER DIAGRAM

SHEET ID
E-602

REVISED RTA SUBMISSION 3/1/2023

PANEL SCHEDULE INDEX										
WT	Panel Schedule Drawing#	LOCATION	V	MCB/ MLO	MCB Rating	BUS RATING	INCOMING FEEDER SIZE	SHORT CIRCUIT RATING	PROVIDE PANEL MAIN METER	Mounting
208 V										
DL	E-701	ELECTRICAL B303	208 V	MCB	600 A	600 A	620Y	10KA	Yes	SURFACE
LN1-1	E-705	ELECTRICAL CLOSET 181	208 V	MCB	100 A	100 A	130Y	10KA	Yes	SURFACE
LN1-2	E-705	ELECTRICAL CLOSET 181	208 V	MCB	100 A	100 A	130Y	10KA	Yes	SURFACE
LN2-1	E-707	ELECTRICAL CLOSET 241	208 V	MCB	100 A	100 A	130Y	10KA	Yes	SURFACE
LN2-2	E-707	ELECTRICAL CLOSET 241	208 V	MCB	100 A	100 A	130Y	10KA	Yes	SURFACE
LN2-C	E-707	TELECOM 242	208 V	MCB	100 A	100 A	130Y	10KA	Yes	SURFACE
LN3-1	E-708	ELECTRICAL CLOSET 361	208 V	MCB	100 A	100 A	130Y	10KA	Yes	SURFACE
LN3-2	E-709	ELECTRICAL CLOSET 361	208 V	MCB	100 A	100 A	130Y	10KA	Yes	SURFACE
LN4-1	E-710	ELECTRICAL CLOSET 421	208 V	MCB	100 A	100 A	130Y	10KA	Yes	SURFACE
LN4-2	E-710	ELECTRICAL CLOSET 421	208 V	MCB	100 A	100 A	130Y	10KA	Yes	SURFACE
LN4-C	E-710	TELECOM 422	208 V	MCB	100 A	100 A	130Y	10KA	Yes	SURFACE
LNB1-1	E-704	ELECTRICAL CLOSET B171	208 V	MCB	100 A	100 A	130Y	10KA	Yes	SURFACE
LNB1-2	E-704	ELECTRICAL CLOSET B171	208 V	MCB	100 A	100 A	130Y	10KA	Yes	SURFACE
LNB1-C	E-704	TELECOM B172	208 V	MCB	100 A	100 A	130Y	10KA	Yes	SURFACE
LNB2-1	E-702	ELECTRICAL CLOSET B235	208 V	MCB	100 A	100 A	130Y	10KA	Yes	SURFACE
LNB2-2	E-702	ELECTRICAL CLOSET B235	208 V	MCB	100 A	100 A	130Y	10KA	Yes	SURFACE
LNB2-C	E-703	TELECOM B237	208 V	MCB	100 A	100 A	130Y	10KA	Yes	SURFACE
LNB3	E-702	ELECTRICAL B303	208 V	MCB	100 A	100 A	130Y	10KA	Yes	SURFACE
LS1-1	E-706	ELECTRICAL CLOSET 146	208 V	MCB	100 A	100 A	130Y	10KA	Yes	SURFACE
LS1-2	E-706	ELECTRICAL CLOSET 146	208 V	MCB	100 A	100 A	130Y	10KA	Yes	SURFACE
LS1-C	E-706	TELECOM 145	208 V	MCB	100 A	100 A	130Y	10KA	Yes	SURFACE
LS2-1	E-707	ELECTRICAL CLOSET 209	208 V	MCB	100 A	100 A	130Y	10KA	Yes	SURFACE
LS2-2	E-708	ELECTRICAL CLOSET 209	208 V	MCB	100 A	100 A	130Y	10KA	Yes	SURFACE
LS2-C	E-708	TELECOM 219	208 V	MCB	100 A	100 A	130Y	10KA	Yes	SURFACE
LS3-1	E-709	ELECTRICAL CLOSET 337	208 V	MCB	100 A	100 A	130Y	10KA	Yes	SURFACE
LS3-2	E-709	ELECTRICAL CLOSET 337	208 V	MCB	100 A	100 A	130Y	10KA	Yes	SURFACE
LS3-C	E-709	TELECOM 325	208 V	MCB	100 A	100 A	130Y	10KA	Yes	SURFACE
LS3-TV	E-711	ELECTRICAL 316	208 V	MCB	200 A	200 A	230Y	10KA	Yes	SURFACE
LS3-TV2	E-711	SERVER ROOM / MCR 314	208 V	MCB	150 A	150 A	150Y	10KA	Yes	SURFACE
LS3-TV3	E-711	SERVER ROOM / MCR 314	208 V	MCB	150 A	150 A	150Y	10KA	Yes	SURFACE
LSB1-1	E-704	ELECTRICAL CLOSET B107	208 V	MCB	100 A	100 A	130Y	10KA	Yes	SURFACE
LSB1-2	E-705	ELECTRICAL CLOSET B107	208 V	MCB	100 A	100 A	130Y	10KA	Yes	SURFACE
LSB1-FP	E-714	AD LAW CORRIDOR B110	208 V	MCB	50 A	100 A	150Y	10KA	Yes	SURFACE
LSB2-1	E-703	ELECTRICAL CLOSET B215	208 V	MCB	400 A	400 A	420Y	10KA	Yes	SURFACE
LSB2-2	E-703	ELECTRICAL CLOSET B215	208 V	MCB	400 A	400 A	420Y	10KA	Yes	SURFACE
480 V										
DH	E-701	ELECTRICAL B303	480 V	MCB	600 A	600 A	620Y	22KA	Yes	SURFACE
H1-E	E-712	ELECTRICAL CLOSET 181	480 V	MCB	50 A	50 A	50Y	22KA	Yes	SURFACE
H2-E	E-713	ELECTRICAL CLOSET 241	480 V	MCB	50 A	100 A	50Y	22KA	Yes	SURFACE
H3-E	E-713	ELECTRICAL CLOSET 361	480 V	MCB	50 A	100 A	50Y	22KA	Yes	SURFACE
H4-E	E-713	ELECTRICAL CLOSET 421	480 V	MCB	50 A	100 A	50Y	22KA	Yes	SURFACE
HB1-E	E-712	ELECTRICAL CLOSET B171	480 V	MCB	50 A	50 A	50Y	22KA	Yes	SURFACE
HB2-E	E-712	ELECTRICAL CLOSET B235	480 V	MCB	50 A	50 A	50Y	22KA	Yes	SURFACE
HB3-E	E-712	ELECTRICAL B303	480 V	MCB	100 A	100 A	130Y	22KA	Yes	SURFACE
HN1	E-705	ELECTRICAL CLOSET 181	480 V	MCB	100 A	100 A	130Y	22KA	Yes	SURFACE
HN2	E-706	ELECTRICAL CLOSET 241	480 V	MCB	100 A	100 A	130Y	22KA	Yes	SURFACE
HN3	E-708	ELECTRICAL CLOSET 361	480 V	MCB	100 A	100 A	130Y	22KA	Yes	SURFACE
HN4	E-710	ELECTRICAL CLOSET 421	480 V	MCB	100 A	100 A	130Y	22KA	Yes	SURFACE
HN-EL	E-713	ELEV MACHINE RM R101	480 V	MCB	100 A	100 A	130Y	22KA	Yes	SURFACE
HNB1	E-703	ELECTRICAL CLOSET B171	480 V	MCB	100 A	100 A	130Y	22KA	Yes	SURFACE
HNB2	E-702	ELECTRICAL CLOSET B235	480 V	MCB	100 A	100 A	130Y	22KA	Yes	SURFACE
HNB3	E-701	ELECTRICAL B303	480 V	MCB	100 A	100 A	130Y	22KA	Yes	SURFACE
HS3-TV	E-711	ELECTRICAL 316	480 V	MCB	200 A	200 A	230Y	22KA	Yes	SURFACE
MSB	E-701	ELECTRICAL B303	480 V	MCB	1000 A	1000 A	1000Y	35KA	Yes	FLOOR

REVISED RTA SUBMISSION 3/1/2023

US Army Corps of Engineers ®

MARK	DESCRIPTION	DATE

DESIGNED BY: D. PAXTON
DRAWN BY: D. PAXTON
CHECKED BY: Y. SOLOMON
SUBMITTED BY:

ISSUE DATE: 01 MARCH 2023
SOLICITATION NO.: W912DS-19-R-0014
CONTRACT NO.: W912DS-19-C-0031-L
FILE NUMBER:

SIZE: ANSI D
FILE NAME:

US ARMY CORPS OF ENGINEERS
LINCOLN HALL
WEST POINT, NEW YORK

JACOBS / EWING COLE *A Joint Venture*

BUILDINGS 605/607 RENOVATION - LINCOLN HALL

ELECTRICAL PANEL SCHEDULE INDEX

SHEET ID

E-700

Switchboard: MSB

Location: ELECTRICAL B303 | **Volts:** 480/277 Wye | **A.I.C. Rating:** 35KA
Supply From: | **Phases:** 3 | **Mains Type:** MCB
Mounting: FLOOR | **Wires:** 4 | **Mains Rating:** 1000 A
Enclosure: | **MCB Rating:** 1000 A

Notes:
SERVICE RATED

CKT	Circuit Description	# of Poles	Frame Size	Trip Rating	Load	Remarks
1	DH	3	600 A	600 A	317864 VA	
2	T-B3	3	225 A	225 A	158337 VA	
3	HN-EL	3	100 A	100 A	33226 VA	
4	SPARE	3	--	225 A	0 VA	
5	SPARE	3	--	100 A	0 VA	
6	SPD	3	--	60 A	0 VA	
7	TEMPORARY CHILLER FEEDER	3	--	400 A	0 VA	
8						
9						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
				Total Conn. Load:	508776 VA	
				Total Amps:	612 A	

Panel Totals	
Total Conn. Load:	508776 VA
Total Est. Demand:	399358 VA
Total Conn. Current:	612 A
Total Est. Demand Current:	480 A

Notes:

Branch Panel: DH

Location: ELECTRICAL B303 | **Volts:** 480/277 Wye | **A.I.C. Rating:** 22KA
Supply From: MSB | **Phases:** 3 | **Mains Type:** MCB
Mounting: SURFACE | **Wires:** 4 | **Bus Rating:** 600 A
Enclosure: Type 1 | **MCB Rating:** 600 A

Notes:

#	Load Name	Trip	Poles	A		B		C		Poles	Trip	Load Name	#
1				3060	11183								2
3	INV-1	100 A	3			2801	7284			3	100 A	HN4	4
5								455	10647				6
7				8321	9260								8
9	HN3	100 A	3			6260	8360			3	200 A	HS3-TV	10
11								8453	9600				12
13				8048	13489								14
15	HN2	100 A	3			7957	11381			3	100 A	HN1	16
17								5164	11886				18
19				8898	24033								20
21	HNB1	100 A	3			6944	21626			3	100 A	HNB2	22
23								4995	21813				24
25				30398									26
27	HNB3	100 A	3			30213							28
29								29960					30
31													32
33													34
35													36
37													38
39													40
41													42
			Total Load:	115124 VA		101308 VA		101437 VA					
			Total Amps:	416 A		366 A		366 A					

Panel Totals	
Total Conn. Load:	317864 VA
Total Est. Demand:	260877 VA
Total Conn. Current:	382 A
Total Est. Demand Current:	314 A

Notes:

Branch Panel: DL

Location: ELECTRICAL B303 | **Volts:** 120/208 Wye | **A.I.C. Rating:** 10KA
Supply From: T-B3 | **Phases:** 3 | **Mains Type:** MCB
Mounting: SURFACE | **Wires:** 4 | **Bus Rating:** 600 A
Enclosure: Type 1 | **MCB Rating:** 600 A

Notes:

#	Load Name	Trip	Poles	A		B		C		Poles	Trip	Load Name	#
1				5285	16243								2
3	LNB3	100 A	3			3279	17641			3	400 A	LSB2-2	4
5								3622	15322				6
7				34624	0								8
9	LSB2-1	400 A	3			33004	0			3	100 A	SPARE	10
11								29332	0				12
13					0								14
15							0			3	100 A	SPARE	16
17									0				18
19					0								20
21							0			3	100 A	SPARE	22
23									0				24
25													26
27													28
29													30
31													32
33													34
35													36
37													38
39													40
41													42
			Total Load:	56152 VA		53910 VA		48276 VA					
			Total Amps:	475 A		456 A		402 A					

Panel Totals	
Total Conn. Load:	158337 VA
Total Est. Demand:	112072 VA
Total Conn. Current:	439 A
Total Est. Demand Current:	311 A

Notes:

Branch Panel: HNB3

Location: ELECTRICAL B303 | **Volts:** 480/277 Wye | **A.I.C. Rating:** 22KA
Supply From: DH | **Phases:** 3 | **Mains Type:** MCB
Mounting: SURFACE | **Wires:** 4 | **Bus Rating:** 100 A
Enclosure: Type 1 | **MCB Rating:** 100 A

Notes:

#	Load Name	Trip	Poles	A		B		C		Poles	Trip	Load Name	#
1				5577	471					1	20 A	LTG B3 NORTH	2
3	CHWP-1 MECHANICAL RM XB301	40 A	3			5577	272			1	20 A	LTG MECHANICAL XB301 & TUNNEL...	4
5								5577	10000				6
7				5577	10000					3	50 A	EWH-1 MECHANICAL RM XB301	8
9	CHWP-2 MECHANICAL RM XB301	40 A	3			5577	10000						10
11								5577	2104				12
13				3718	2104					3	20 A	BP-1 MECHANICAL RM XB301	14
15	HWP-1 MECHANICAL RM XB301	25 A	3			3718	2104						16
17								3718	830				18
19				3718	830					3	20 A	SEP-1 & SEP-2 MECHANICAL RM B305	20
21	HWP-2 MECHANICAL RM XB301	25 A	3			3718	830						22
23								3718					24
25													26
27													28
29													30
31													32
33													34
35													36
37													38
39													40
41													42
			Total Load:	30398 VA		30213 VA		29960 VA					
			Total Amps:	110 A		109 A		108 A					

Panel Totals	
Total Conn. Load:	90571 VA
Total Est. Demand:	79860 VA
Total Conn. Current:	109 A
Total Est. Demand Current:	96 A

Notes:

US Army Corps of Engineers ®

MARK	DESCRIPTION	DATE

DESIGNED BY: D. PAXTON
DRAWN BY: D. PAXTON
CHECKED BY: Y. SOLOMON
SUBMITTED BY:
ISSUE DATE: 01 MARCH 2023
SOLICITATION NO.: W912DS-19-R-0014
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US ARMY CORPS OF ENGINEERS
LINCOLN HALL
WEST POINT, NEW YORK

JACOBS / EWING COLE *A Joint Venture*

BUILDINGS 605/607 RENOVATION - LINCOLN HALL

ELECTRICAL PANEL SCHEDULES

SHEET ID

E-701

REVISED RTA SUBMISSION 3/1/2023

Branch Panel: LNB3

Location: ELECTRICAL B303 | **Volts:** 208/120 Wye | **A.I.C. Rating:** 10KA
Supply From: DL | **Phases:** 3 | **Mains Type:** MCB
Mounting: SURFACE | **Wires:** 4 | **Bus Rating:** 100 A
Enclosure: Type 1 | **MCB Rating:** 100 A

Notes:

#	Load Name	Trip	Poles	A		B		C		Poles	Trip	Load Name	#
1	REC - RM B303	20 A	1	720	900					1	20 A	REC - RB B306, B307	2
3	REC MECHANICAL B305	20 A	1			540	720			1	20 A	REC PRINTING/LAMINATING STORAGE...	4
5	REC - ELEV PIT	20 A	1					180	720	1	20 A	REC Room B300A, RM B301	6
7	REC AV/EVENT STORAGE B304	20 A	1	360	360					1	20 A	REC MECHANICAL XB301	8
9	UH-3 RM B302 & UH-4 RM B304	20 A	1			192	528			1	20 A	EF-4 - RECYCLING RM B306	10
11	CRU 1 MECHANICAL RM XB301	20 A	2					1019	146	2	20 A	FCU-F 2-B201 MECHANICAL XB301	12
13				1019	146								14
15	FCU-F 2-B301 RM B300A & FCU-F 3 RM B307	20 A	2			291	270			2	20 A	CRAH-3 ELECTRICAL RM B303	16
17								291	270				18
19	REC NEMA L15-50R CORRIDOR B300A	50 A	3	60	100					1	20 A	TP-1 MECHANICAL XB301 TRAP PRIMER	20
21						60	192			1	20 A	UH-7 MECH XB301 & UH-8 LOADING B301	22
23								60	360	1	20 A	BAS PANELS MECHANICAL XB301	24
25	HWRP-1 MECHANICAL RM XB301	20 A	1	864	180					1	20 A	LOC PANEL CORRIDOR B300A	26
27	SP-1 ELEVATOR PIT	20 A	3			576							28
29								576					30
31				576									32
33													34
35													36
37													38
39													40
41													42
			Total Load:	5285 VA		3279 VA		3622 VA					
			Total Amps:	44 A		27 A		31 A					

Panel Totals	
Total Conn. Load:	12174 VA
Total Est. Demand:	12088 VA
Total Conn. Current:	34 A
Total Est. Demand Current:	34 A

Notes:

Branch Panel: HNB2

Location: ELECTRICAL CLOSET B235 | **Volts:** 480/277 Wye | **A.I.C. Rating:** 22KA
Supply From: DH | **Phases:** 3 | **Mains Type:** MCB
Mounting: SURFACE | **Wires:** 4 | **Bus Rating:** 100 A
Enclosure: Type 1 | **MCB Rating:** 100 A

Notes:

#	Load Name	Trip	Poles	A		B		C		Poles	Trip	Load Name	#
1				6866	638					1	20 A	LTG Room B233, B238	2
3	T-B2 ELECTRICAL CLOSET B235	50 A	3			5411	272			1	20 A	LTG CORRIDOR	4
5								5247	623	1	20 A	LTG WOMEN'S RESTROOM B211	6
7				7972	7972								8
9	HVAC	20 A	3			7972	7972			3	50 A	DOAS-2 EXTERIOR SOUTH WING	10
11								7972	7972				12
13	EXTERIOR LIGHTING	20 A	1	585									14
15													16
17													18
19													20
21													22
23													24
25													26
27													28
29													30
31													32
33													34
35													36
37													38
39													40
41													42
			Total Load:	24033 VA		21626 VA		21813 VA					
			Total Amps:	87 A		78 A		79 A					

Panel Totals	
Total Conn. Load:	67472 VA
Total Est. Demand:	67619 VA
Total Conn. Current:	81 A
Total Est. Demand Current:	81 A

Notes:

Branch Panel: LNB2-1

Location: ELECTRICAL CLOSET B235 | **Volts:** 120/208 Wye | **A.I.C. Rating:** 10KA
Supply From: T-B2 | **Phases:** 3 | **Mains Type:** MCB
Mounting: SURFACE | **Wires:** 4 | **Bus Rating:** 100 A
Enclosure: Type 1 | **MCB Rating:** 100 A

Notes:

#	Load Name	Trip	Poles	A		B		C		Poles	Trip	Load Name	#
1				2846	1440								2
3	LNB2-2	100 A	3			1781	1950			3	100 A	LNB2-C	4
5								2757	1350				6
7	REC STORAGE B238	20 A	1	720	1080					1	20 A	REC MECHANICAL B233	8
9	REC Room B2100B, XB2-102	20 A	1			1080	540			1	20 A	REC MULTI-MEDIA ARCHIVE B232	10
11	REC CUSTODIAL B231	20 A	1					540	540	1	20 A	REC RM B236, B201	12
13	CENTRAL STAIR / ENTRANCE B201...	20 A	1	720	60								14
15							60			3	50 A	REC NEMA L15-50R CORRIDOR B2100B	16
17									60				18
19													20
21													22
23													24
25													26
27													28
29													30
31													32
33													34
35													36
37													38
39													40
41													42
			Total Load:	6866 VA		5411 VA		5247 VA					
			Total Amps:	57 A		45 A		44 A					

Panel Totals	
Total Conn. Load:	17524 VA
Total Est. Demand:	17524 VA
Total Conn. Current:	49 A
Total Est. Demand Current:	49 A

Notes:

Branch Panel: LNB2-2

Location: ELECTRICAL CLOSET B235 | **Volts:** 120/208 Wye | **A.I.C. Rating:** 10KA
Supply From: LNB2-1 | **Phases:** 3 | **Mains Type:** MCB
Mounting: SURFACE | **Wires:** 4 | **Bus Rating:** 100 A
Enclosure: Type 1 | **MCB Rating:** 100 A

Notes:

#	Load Name	Trip	Poles	A		B		C		Poles	Trip	Load Name	#
1	UH-1 MECHANICAL B233	20 A	1	144	312								2
3	UH-2 CUSTODIAL B231	20 A	1			96	312			3	30 A	CRAH-4 TELECOM B237	4
5	CP-2 MECHANICAL B233	25 A	1					1656	312				6
7	CP-3 STORAGE B236	20 A	1	1656	125					2	20 A	FCU-C 6-B238 STORAGE B238	8
9	EWC-1 CENTRAL STAIR / ENTRANCE B201	20 A	1			180	125						10
11	FCU-A 2-B235 ELECTRICAL CLOSET B235	20 A	2					42	100	1	20 A	ETP-1 MECHANICAL B233 TRAP PRIMER	12
13				42	100					1	20 A	BAS PANEL MECHANICAL B233	14
15						468	600			1	20 A	NAC PANEL ELECTRICAL CLOSET B235	16
17	MAU 1 STORAGE B236	20 A	3					468	180	1	20 A	LOC PANEL CORRIDOR B2100B	18
19				468									20
21													22
23													24
25													26
27													28
29													30
31													32
33													34
35													36
37													38
39													40
41													42
			Total Load:	2846 VA		1781 VA		2757 VA					
			Total Amps:	25 A		15 A		24 A					

Panel Totals	
Total Conn. Load:	7384 VA
Total Est. Demand:	7384 VA
Total Conn. Current:	20 A
Total Est. Demand Current:	20 A

Notes:

US Army Corps of Engineers ®

DATE | DESCRIPTION | MARK

ISSUE DATE: 01 MARCH 2023
SOLICITATION NO.: W912DS-19-R-0014
CONTRACT NO.: W912DS-19-C-0031-L
FILE NUMBER:

DESIGNED BY: D. PAXTON
DRAWN BY: D. PAXTON
CHECKED BY: Y. SOLOMON
SUBMITTED BY:
FILE NAME:
SIZE: ANSI 'D'

US ARMY CORPS OF ENGINEERS
LINCOLN HALL
WEST POINT, NEW YORK

JACOBS / EWING COLE A Joint Venture

BUILDINGS 605/607 RENOVATION - LINCOLN HALL

ELECTRICAL PANEL SCHEDULES

SHEET ID

E-702

Branch Panel: LNB2-C

Location: TELECOM B237
Supply From: LNB2-1
Mounting: SURFACE
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 10KA
Mains Type: MCB
Bus Rating: 100 A
MCB Rating: 100 A

Notes:

#	Load Name	Trip	Poles	A		B		C		Poles	Trip	Load Name	#
1	REC TELECOM B237	20 A	1	360	90					2	20 A	REC TELECOM B237 SPECIAL CLG OUTLET B	2
3	REC TELECOM B237	20 A	1			360	90						4
5	REC TELECOM B237	20 A	1					360	90	2	20 A	REC TELECOM B237 SPECIAL CLG OUTLET B	6
7	REC TELECOM B237 SPECIAL CLG...	20 A	1	180	90								8
9	REC TELECOM B237 SPECIAL CLG...	20 A	1			180	90			2	20 A	REC TELECOM B237 SPECIAL CLG OUTLET B	10
11	REC TELECOM B237 SPECIAL CLG...	20 A	1					180	90				12
13	REC TELECOM B237 SPECIAL CLG...	20 A	1	180	90					2	20 A	REC TELECOM B237 SPECIAL CLG OUTLET B	14
15	REC TELECOM B237 SPECIAL CLG...	20 A	1			180	90						16
17	REC TELECOM B237 SPECIAL CLG...	20 A	1					180	90	2	20 A	REC TELECOM B237 SPECIAL CLG OUTLET B	18
19	REC TELECOM B237 SPECIAL CLG...	20 A	1	180	90								20
21	REC TELECOM B237 SPECIAL CLG...	20 A	1			180	90			2	20 A	REC TELECOM B237 SPECIAL CLG OUTLET B	22
23	REC TELECOM B237 SPECIAL CLG OUTLET B	20 A	2					90	90				24
25				90	90					2	20 A	REC TELECOM B237 SPECIAL CLG OUTLET B	26
27	SECURITY SYSTYEM PANEL TELECOM...	20 A	1			600	90						28
29	REC TELECOM B237 SPECIAL OUTLET C	30 A	1					180	0	1	20 A	SPARE	30
31	SPARE	20 A	1	0	0					--	--	SPACE	32
33	SPARE	20 A	1			0	0			--	--	SPACE	34
35	SPARE	20 A	1					0	0	--	--	SPACE	36
37	SPACE	--	--	0	0					3	30 A	SPD	38
39	SPACE	--	--			0	0						40
41	SPACE	--	--					0	0				42
			Total Load:	1440 VA		1950 VA		1350 VA					
			Total Amps:	12 A		16 A		11 A					

Panel Totals	
Total Conn. Load:	4740 VA
Total Est. Demand:	4740 VA
Total Conn. Current:	13 A
Total Est. Demand Current:	13 A

Notes:

Branch Panel: LSB2-1

Location: ELECTRICAL CLOSET B215
Supply From: DL
Mounting: SURFACE
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 10KA
Mains Type: MCB
Bus Rating: 400 A
MCB Rating: 400 A

Notes:

#	Load Name	Trip	Poles	A		B		C		Poles	Trip	Load Name	#
1				8100	5520								2
3	LSB1-1	100 A	3			7720	7164			3	100 A	LS1-1	4
5								7524	5940				6
7				9660	6020								8
9	LS2-1	100 A	3			7280	5740			3	100 A	LS3-1	10
11								8244	4244				12
13	REC BREAK ROOM B213 REFRIGERATOR	20 A	1	800	720					1	20 A	REC MEN'S RESTROOM B212	14
15	REC BREAK ROOM B213	20 A	1			900	540			1	20 A	REC Room B214	16
17	REC OFFICE B221	20 A	1					540	540	1	20 A	REC OFFICE B222	18
19	REC Room B220	20 A	1	540	540					1	20 A	REC CLIENT SERVICES OPEN OFFICE...	20
21	REC CLIENT SERVICES OPEN OFFICE...	20 A	1			360	540			1	20 A	REC OFFICE B223	22
23	REC OFFICE B224	20 A	1					540	540	1	20 A	REC OFFICE B226	24
25	REC OFFICE B225	20 A	1	540	1200					1	20 A	REC BREAK ROOM B213 MICROWAVE	26
27	REC CORRIDOR B2100A	20 A	1			1080	1200			1	20 A	REC BREAK ROOM B213 MICROWAVE	28
29	REC CLIENT SERVICES OPEN OFFICE...	20 A	1					500	600	1	20 A	REC BREAK ROOM B213 COFFEE...	30
31	REC BREAK ROOM B213 SINK DISPOSAL	20 A	1	864	60								32
33	RESTROOMS B211 & B212 FLUSH...	20 A	1			360	60			3	50 A	REC NEMA L15-50R CORRIDOR B2100A	34
35								60	60				36
37	REC NEMA L15-50R CORRIDOR B2100A	50 A	3	60									38
39						60							40
41													42
			Total Load:	34624 VA		33004 VA		29332 VA					
			Total Amps:	293 A		280 A		244 A					

Panel Totals	
Total Conn. Load:	96960 VA
Total Est. Demand:	54740 VA
Total Conn. Current:	269 A
Total Est. Demand Current:	152 A

Notes:

Branch Panel: LSB2-2

Location: ELECTRICAL CLOSET B215
Supply From: DL
Mounting: SURFACE
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 10KA
Mains Type: MCB
Bus Rating: 400 A
MCB Rating: 400 A

Notes:

#	Load Name	Trip	Poles	A		B		C		Poles	Trip	Load Name	#
1				4917	2999								2
3	LSB1-2	100 A	3			3782	3360			3	100 A	LS1-2	4
5								5419	1316				6
7				1790	4101								8
9	LS2-2	100 A	3			2252	3936			3	100 A	LS3-2	10
11								1216	3509				12
13	FCU-D-2-B211, FCU-D-2-B212,	20 A	2	250	364					2	20 A	FCU-A-1-B223, FCU-A-1-B224, FCU-C-3-B220	14
15	FCU-F-2-B201					250	364						16
17	FCU-A-1-B221, FCU-A-1-B222	20 A	2					83	83	2	20 A	FCU-A-1-B225, FCU-A-1-B226	18
19				83	83								20
21	FCU-C-2-B214	20 A	2			166	3350			2	45 A	EWH-3 JANITOR CLOSET B216	22
23								166	3350				24
25	CP-1 EXTERIOR SOUTH AT DOAS-1	20 A	1	1656									26
27	BAS PANEL EXTERIOR SOUTH AT DOAS-1	20 A	1			180							28
29	LOC PANEL CORRIDOR B2100A	20 A	1					180					30
31													32
33													34
35													36
37													38
39													40
41													42
			Total Load:	16243 VA		17641 VA		15322 VA					
			Total Amps:	137 A		148 A		128 A					

Panel Totals	
Total Conn. Load:	49207 VA
Total Est. Demand:	49207 VA
Total Conn. Current:	137 A
Total Est. Demand Current:	137 A

Notes:

Branch Panel: HNB1

Location: ELECTRICAL CLOSET B171
Supply From: DH
Mounting: SURFACE
Enclosure: Type 1

Volts: 480/277 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 22KA
Mains Type: MCB
Bus Rating: 100 A
MCB Rating: 100 A

Notes:

#	Load Name	Trip	Poles	A		B		C		Poles	Trip	Load Name	#
1				7218	895					1	20 A	LTG Room B165, B164	2
3	T-B1	50 A	3			6565	379			1	20 A	LTG CORRIDOR	4
5								4404	591	1	20 A	LTG	6
7					785					1	20 A	LTG	8
9													10
11													12
13													14
15													16
17													18
19													20
21													22
23													24
25													26
27													28
29													30
31													32
33													34
35													36
37													38
39													40
41													42
			Total Load:	8898 VA		6944 VA		4995 VA					
			Total Amps:	33 A		26 A		18 A					

Panel Totals	
Total Conn. Load:	20837 VA
Total Est. Demand:	20077 VA
Total Conn. Current:	25 A
Total Est. Demand Current:	24 A

Notes:

US Army Corps of Engineers ®

DATE | DESCRIPTION | MARK

DESIGNED BY: D. PAXTON
DRAWN BY: D. PAXTON
CHECKED BY: Y. SOLOMON
SUBMITTED BY:
ISSUE DATE: 01 MARCH 2023
SOLICITATION NO.: W912DS-19-R-0014
CONTRACT NO.: W912DS-19-C-0031-L
FILE NUMBER:
SIZE: ANSI 'D'
FILE NAME:

US ARMY CORPS OF ENGINEERS
LINCOLN HALL
WEST POINT, NEW YORK

JACOBS / EWING COLE A Joint Venture

BUILDINGS 605/607 RENOVATION - LINCOLN HALL

ELECTRICAL PANEL SCHEDULES

SHEET ID

E-703

REVISED RTA SUBMISSION 3/1/2023

Branch Panel: LNB1-1

Location: ELECTRICAL CLOSET B171
Supply From: T-B1
Mounting: SURFACE
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 10KA
Mains Type: MCB
Bus Rating: 100 A
MCB Rating: 100 A

Notes:

#	Load Name	Trip	Poles	A		B		C		Poles	Trip	Load Name	#
1				1858	900								2
3	LNB1-2	100 A	3			1355	1230			3	100 A	LNB1-C	4
5								874	270				6
7	REC AV/EVENT STORAGE B165	20 A	1	900	720					1	20 A	REC STORAGE B164	8
9	REC A/V STAFF & PHOTO EDITING SUIT...	20 A	1			540	1080			1	20 A	REC CORRIDOR B100B	10
11	REC CENTRAL STAIR B101	20 A	1					360	720	1	20 A	REC A/V STAFF & PHOTO EDITING SUIT...	12
13	REC A/V STAFF PHOTO EDITING SUITE...	20 A	1	720	800					1	20 A	REC EWC CORRIDOR B100B	14
15	REC A/V STAFF PHOTO EDITING SUITE...	20 A	1			900	500			1	20 A	REC ADMISSIONS OPEN OFFICE 140	16
17	REC RESTROOMS B173 & B174	20 A	1					720	500	1	20 A	REC ADMISSIONS OPEN OFFICE 130	18
19	REC BREAK ROOM 120	20 A	1	900	360					1	20 A	WOMEN RESTROOM 183	20
21	RESTROOMS B173 & B174 FLUSH VALVES	20 A	1			360	540			1	20 A	REC OFFICE B158	22
23	MEN'S RESTROOM 184	20 A	1					360	540	1	20 A	REC OFFICE B157	24
25				60									26
27	REC NEMA L15-50R CORRIDOR B100B	50 A	3			60							28
29								60					30
31													32
33													34
35													36
37													38
39													40
41													42
			Total Load:	7218 VA		6565 VA		4404 VA					
			Total Amps:	63 A		57 A		37 A					

Panel Totals	
Total Conn. Load:	18187 VA
Total Est. Demand:	17427 VA
Total Conn. Current:	50 A
Total Est. Demand Current:	48 A

Notes:

Branch Panel: LNB1-C

Location: TELECOM B172
Supply From: LNB1-1
Mounting: SURFACE
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 10KA
Mains Type: MCB
Bus Rating: 100 A
MCB Rating: 100 A

Notes:

#	Load Name	Trip	Poles	A		B		C		Poles	Trip	Load Name	#
1	REC TELECOM B172	20 A	1	540	90					2	20 A	REC TELECOM B172 SPECIAL CLG OUTLET B	2
3	REC TELECOM B172	20 A	1			360	90						4
5	REC TELECOM B172 SPECIAL CLG...	20 A	1					180	90	2	20 A	REC TELECOM B172 SPECIAL CLG OUTLET B	6
7	REC TELECOM B172 SPECIAL CLG...	20 A	1	180	90								8
9	SECURITY SYSTEM PANEL TELECOM...	20 A	1			600	180			1	30 A	REC TELECOM B172 SPECIAL OUTLET C	10
11	SPARE	20 A	1					0	0	1	20 A	SPARE	12
13	SPARE	20 A	1	0	0					1	20 A	SPARE	14
15	SPARE	20 A	1			0	0			1	20 A	SPARE	16
17	SPARE	20 A	1					0	0	1	20 A	SPARE	18
19	SPACE	--	--	0	0					--	--	SPACE	20
21	SPACE	--	--			0	0			--	--	SPACE	22
23	SPACE	--	--					0	0	--	--	SPACE	24
25	SPACE	--	--	0	0					--	--	SPACE	26
27	SPACE	--	--			0	0			--	--	SPACE	28
29	SPACE	--	--					0	0	--	--	SPACE	30
31	SPACE	--	--	0	0					--	--	SPACE	32
33	SPACE	--	--			0	0			--	--	SPACE	34
35	SPACE	--	--					0	0	--	--	SPACE	36
37	SPACE	--	--	0	0								38
39	SPACE	--	--			0	0			3	30 A	SPD	40
41	SPACE	--	--					0	0				42
			Total Load:	900 VA		1230 VA		270 VA					
			Total Amps:	8 A		11 A		2 A					

Panel Totals	
Total Conn. Load:	2400 VA
Total Est. Demand:	2400 VA
Total Conn. Current:	7 A
Total Est. Demand Current:	7 A

Notes:

Branch Panel: LNB1-2

Location: ELECTRICAL CLOSET B171
Supply From: LNB1-1
Mounting: SURFACE
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 10KA
Mains Type: MCB
Bus Rating: 100 A
MCB Rating: 100 A

Notes:

#	Load Name	Trip	Poles	A		B		C		Poles	Trip	Load Name	#
1	FCU-C-9-B165, FCU-C-1-B159	20 A	2	520	260					2	20 A	FCU-D-1-B102, FCU-G-1-B173, FCU-G-1-B174	2
3						520	260						4
5	FCU-A-1-B158, FCU-A-1-B157, FCU-C-6-B156	20 A	2					208	270	2	20 A	FCU-C-9-B164, FCU-A-2-B171	6
7				208	270								8
9	CRAH-6A TELECOM B172	20 A	2			198	198			2	20 A	CRAH-6B TELECOM B172	10
11								198	198				12
13	NAC PANEL ELECTRICAL CLOSET B171	20 A	1	600									14
15	LOC PANEL CORRIDOR B100B	20 A	1			180							16
17													18
19													20
21													22
23													24
25													26
27													28
29													30
31													32
33													34
35													36
37													38
39													40
41													42
			Total Load:	1858 VA		1355 VA		874 VA					
			Total Amps:	16 A		12 A		7 A					

Panel Totals	
Total Conn. Load:	4087 VA
Total Est. Demand:	4087 VA
Total Conn. Current:	11 A
Total Est. Demand Current:	11 A

Notes:

Branch Panel: LSB1-1

Location: ELECTRICAL CLOSET B107
Supply From: LSB2-1
Mounting: SURFACE
Enclosure: Type 1

Volts: 208/120 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 10KA
Mains Type: MCB
Bus Rating: 100 A
MCB Rating: 100 A

Notes:

#	Load Name	Trip	Poles	A		B		C		Poles	Trip	Load Name	#
1	REC OFFICE B153	20 A	1	540	720					1	20 A	REC AD LAW OPEN OFFICE B154	2
3	REC Room B154, B1100A	20 A	1			1080	540			1	20 A	REC OFFICE B152	4
5	REC OFFICE B151	20 A	1					540	720	1	20 A	REC OFFICE B145	6
7	REC OFFICE B144	20 A	1	540	500					1	20 A	REC OPEN OFFICE B140	8
9	REC OPEN OFFICE B140	20 A	1			360	540			1	20 A	REC OFFICE B143	10
11	REC OFFICE B142	20 A	1					540	720	1	20 A	REC OFFICE B141	12
13	REC COLLABORATIVE SPACE B120	20 A	1	1260	540					1	20 A	REC COLLABORATIVE SPACE B120	14
15	REC Room B106, B105	20 A	1			900	540			1	20 A	REC OFFICE B112	16
17	REC OFFICE B111	20 A	1					540	540	1	20 A	REC OFFICE B113	18
19	REC OFFICE B114	20 A	1	540	1080					1	20 A	REC Room B130, B110	20
21	REC OFFICE B115	20 A	1			540	540			1	20 A	REC OFFICE B131	22
23	REC OFFICE B116	20 A	1					540	540	1	20 A	REC OFFICE B132	24
25	REC OFFICE B133	20 A	1	540	500					1	20 A	REC AD LAW CORRIDOR B150	26
27	REC OFFICE B134	20 A	1			540	1000			1	20 A	REC AD LAW CORRIDOR B110	28
29	REC OPEN OFFICE B140	20 A	1					900	720	1	20 A	RECBREAK RM B135	30
31	REC BREAK RM B135 REFRIGERATOR	20 A	1	800	180					1	20 A	REC BREAK RM B135 MICROWAVE	32
33	REC BREAK RM B135 COFFEE MACHINE	20 A	1			600	180			1	20 A	REC BREAK RM B135 MICROWAVE	34
35	REC BEAK RM B135 SINK DISPOSAL	20 A	1					864	360				36
37					360					3	20 A	REC MIL JUSTICE OPEN OFFICE B130 FURNITURE PARTITION SYSTEM	38
39							360						40
41													42
			Total Load:	8100 VA		7720 VA		7524 VA					
			Total Amps:	68 A		65 A		63 A					

Panel Totals	
Total Conn. Load:	23344 VA
Total Est. Demand:	16672 VA
Total Conn. Current:	65 A
Total Est. Demand Current:	46 A

Notes:

US Army Corps of Engineers ®

MARK	DESCRIPTION	DATE

DESIGNED BY: D. PAXTON
DRAWN BY: D. PAXTON
CHECKED BY: Y. SOLOMON
SUBMITTED BY:
ISSUE DATE: 01 MARCH 2023
SOLICITATION NO.: W912DS-19-R-0014
CONTRACT NO.: W912DS-19-C-0031-L
FILE NUMBER:
SIZE: ANSI 'D'
FILE NAME:

US ARMY CORPS OF ENGINEERS
LINCOLN HALL
WEST POINT, NEW YORK

JACOBS / EWING COLE *A Joint Venture*

BUILDINGS 605/607 RENOVATION - LINCOLN HALL

ELECTRICAL PANEL SCHEDULES

SHEET ID

E-704

REVISED RTA SUBMISSION 3/1/2023

Branch Panel: LSB1-2

Location: ELECTRICAL CLOSET B107
Supply From: LSB2-2
Mounting: SURFACE
Enclosure: Type 1

Volts: 208/120 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 10KA
Mains Type: MCB
Bus Rating: 100 A
MCB Rating: 100 A

Notes:

#	Load Name	Trip	Poles	A		B		C		Poles	Trip	Load Name	#
1	FCU-A-1-B154, FCU-A-1-B155	20 A	2	83	125					2	20 A	FCU-A-1-B111, FCU-A-1-B112, FCU-A-1-B113	2
3						83	125						4
5	FCU-A1-B153, FCU-A-1-B151, FCU-A-1-B152	20 A	2					125	125	2	20 A	FCU-A-1-B114, FCU-A-1-B115, FCU-A-1-B116	6
7				125	125								8
9	FCU-C-5-B130, FCU-A-1-B131, FCU-A-1-B132	20 A	2			208	208			2	20 A	FCU-A-1-B133, FCU-A-1-B134, FCU-C-6-B135	10
11								208	208				12
13	FCU-C-5-B140, FCU-A-1-B143, FCU-A-1-B144	20 A	2	258	48					1	20 A	UH-6 FIRE PROTECTION RM B106	14
15						258	60						16
17	FCU-A-1-B141, FCU-A-1-B142	20 A	2					83	60	3	50 A	REC NEMA L15-50R CORRIDOR B1100A	18
19				83	60								20
21	REC NEMA L15-50R COLLABORATIVE SPACE B120	50 A	3			60	1400			1	20 A	EWH-2 BREAK RM B135	22
23								60	3350	2	45 A	EWH-3 JANITOR'S CLOSET B108	24
25				60	3350								26
27						1200	180			1	20 A	LOC PANEL COLLABORATIVE SPACE...	28
29	LSB1-FP FIRE PROTECTION RM B106	50 A	3					1200					30
31				600									32
33													34
35													36
37													38
39													40
41													42
		Total Load:		4917 VA		3782 VA		5419 VA					
		Total Amps:		42 A		32 A		47 A					

Panel Totals	
Total Conn. Load:	14118 VA
Total Est. Demand:	14118 VA
Total Conn. Current:	39 A
Total Est. Demand Current:	39 A

Notes:

Branch Panel: HN1

Location: ELECTRICAL CLOSET 181
Supply From: DH
Mounting: SURFACE
Enclosure: Type 1

Volts: 480/277 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 22KA
Mains Type: MCB
Bus Rating: 100 A
MCB Rating: 100 A

Notes:

#	Load Name	Trip	Poles	A		B		C		Poles	Trip	Load Name	#
1	T-1	50 A	3	12285	398					1	20 A	LTG Room 174, 172	2
3						8771	443			1	20 A	LTG CORRIDOR 100C	4
5								11320	566	1	20 A	LTG RECEPTION 110	6
7	LTG TELECOM 145	20 A	1	807									8
9	LTG RETAIL STORE 170	20 A	1			1945	223			1	20 A	LTG CAFE 160	10
11													12
13													14
15													16
17													18
19													20
21													22
23													24
25													26
27													28
29													30
31													32
33													34
35													36
37													38
39													40
41													42
		Total Load:		13489 VA		11381 VA		11886 VA					
		Total Amps:		49 A		41 A		43 A					

Panel Totals	
Total Conn. Load:	36756 VA
Total Est. Demand:	28100 VA
Total Conn. Current:	44 A
Total Est. Demand Current:	34 A

Notes:

Branch Panel: LN1-1

Location: ELECTRICAL CLOSET 181
Supply From: T-1
Mounting: SURFACE
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 10KA
Mains Type: MCB
Bus Rating: 100 A
MCB Rating: 100 A

Notes:

#	Load Name	Trip	Poles	A		B		C		Poles	Trip	Load Name	#
1	LN1-2	100 A	3	8905	720					1	20 A	REC RETAIL STORE 170	2
3						5471	720			1	20 A	REC RETAIL STORE 170	4
5								8240	360	1	20 A	REC RETAIL STORE 170	6
7	REC RETAIL STORE 170	20 A	1	360	720					1	20 A	REC CORRIDOR 100C	8
9	REC RETAIL STORE 170	20 A	1			360	360			1	20 A	REC WAITING AREA 102	10
11	REC CORRIDOR 100C	20 A	1					900	500	1	20 A	REC OPEN OFFICE 172 PRINTER	12
13	REC CORRIDOR 100C EWC	20 A	1	800	360					1	20 A	REC OPEN OFFICE 172	14
15	REC WOMEN'S RESTROOM 183	20 A	1			720	1080			1	20 A	REC OPEN OFFICE 172	16
17	REC TELECOM 182	20 A	1					900	360	1	20 A	REC OFFICE 174	18
19	REC ELECTRICAL CLOSET 181	20 A	1	360	60								20
21							60			3	50 A	REC NEMA L15-50R CORRIDOR 100C	22
23									60				24
25													26
27													28
29													30
31													32
33													34
35													36
37													38
39													40
41													42
		Total Load:		12285 VA		8771 VA		11320 VA					
		Total Amps:		106 A		73 A		98 A					

Panel Totals	
Total Conn. Load:	32376 VA
Total Est. Demand:	23720 VA
Total Conn. Current:	90 A
Total Est. Demand Current:	66 A

Notes:

Branch Panel: LN1-2

Location: ELECTRICAL CLOSET 181
Supply From: LN1-1
Mounting: SURFACE
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 10KA
Mains Type: MCB
Bus Rating: 100 A
MCB Rating: 100 A

Notes:

#	Load Name	Trip	Poles	A		B		C		Poles	Trip	Load Name	#
1	FCU-F-1-170A, FCU-F-1-170B, FCU-F-1-170C	20 A	2	437	187					2	20 A	FCU-G-4-184, FCU-G-2-101, FCU-D-3-184	2
3						437	187						4
5	CRAH 7 TELECOM 182	20 A	2					198	291	2	20 A	FCU-C-14-160, FCU-E-1-160	6
7				198	291								8
9	FCU-A-2-181, FCU-G-1-183	20 A	2			73	166			2	20 A	FCU-A-1-174, FCU-C-6-172	10
11								73	166				12
13	REC CAFE 160 LARGE COOLER SEE NOTE 1	20 A	2	1144	1200					1	20 A	REC CAFE 160 VATAMIX SEE NOTE 1	14
15						1144	804			1	20 A	REC CAFE 160 REFRIG SEE NOTE 1	16
17	REC CAFE 160 PASTRY CASE SEE NOTE 1	20 A	1					1200	720	1	20 A	REC CAFE 160 ICE MACH SEE NOTE 1	18
19	REC CAFE 160 REGISTER SEE NOTE 1	20 A	1	180	276					1	20 A	REC CAFE 160 TRUE COOLER SEE NOT...	20
21	2 REC CAFE 160 DISPLAY SIGNAGE	20 A	1			360	540			1	20 A	REC CAFE 160 SEE NOTE 1	22
23	REC CAFE 160 ESPRESSO SEE NOTE 1	30 A	2					2184	2808	2	40 A	REC CAFE 160 DUAL BREWER SEE NOTE 1	24
25				2184	2808								26
27	EWH-2 CAFE 160	20 A	1			1400	360			1	20 A	LOC PANEL CORRIDOR 100C	28
29	NAC PANEL ELECTRICAL CLOSET 181	20 A	1					600					30
31													32
33													34
35													36
37													38
39													40
41													42
		Total Load:		8905 VA		5471 VA		8240 VA					
		Total Amps:		78 A		46 A		72 A					

Panel Totals	
Total Conn. Load:	22616 VA
Total Est. Demand:	18840 VA
Total Conn. Current:	63 A
Total Est. Demand Current:	52 A

Notes: 1. PROVIDE GFCI TYPE BRANCH CIRCUIT BREAKER.

US Army Corps of Engineers ®

MARK	DESCRIPTION	DATE

DESIGNED BY: D. PAXTON
DRAWN BY: D. PAXTON
CHECKED BY: Y. SOLOMON
SUBMITTED BY:
SIZE: ANSI 'D'
FILE NAME:

ISSUE DATE: 01 MARCH 2023
SOLICITATION NO.: W912DS-19-R-0014
CONTRACT NO.: W912DS-19-C-0031-L
FILE NUMBER:

US ARMY CORPS OF ENGINEERS
LINCOLN HALL
WEST POINT, NEW YORK

JACOBS / EWING COLE *A Joint Venture*

BUILDINGS 605/607 RENOVATION - LINCOLN HALL

ELECTRICAL PANEL SCHEDULES

SHEET ID

E-705

REVISED RTA SUBMISSION 3/1/2023

Branch Panel: LS1-1

Location: ELECTRICAL CLOSET 146
Supply From: LSB2-1
Mounting: SURFACE
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 10KA
Mains Type: MCB
Bus Rating: 100 A
MCB Rating: 100 A

Notes:

#	Load Name	Trip	Poles	A		B		C		Poles	Trip	Load Name	#
1	REC VISITOR BRIEFING ROOM 150	20 A	1	720	360					1	20 A	REC VISITOR BRIEFING ROOM 150-...	2
3	REC VISITOR BRIEFING ROOM 150	20 A	1			720	720			1	20 A	REC ADMISSIONS OPEN OFFICE 140	4
5	REC VISITOR BRIEFING ROOM 150	20 A	1					360	540	1	20 A	REC OFFICE 141	6
7	REC OFFICE 142	20 A	1	720	720					1	20 A	REC INTERVIEW ROOM 112	8
9	REC Room 143, 140	20 A	1			360	720			1	20 A	REC INTERVIEW ROOM 113	10
11	REC INTERVIEW ROOM 111	20 A	1					720	540	1	20 A	REC RECEPTION 110	12
13	REC RECEPTION 110	20 A	1	360	540					1	20 A	REC ADMISSIONS OPEN OFFICE 130	14
15	REC Room 100A, 100B, X1-101	20 A	1			720	540			1	20 A	REC OFFICE 131	16
17	REC Room 100B, 355	20 A	1					720	540	1	20 A	REC OFFICE 132	18
19	REC OFFICE 133	20 A	1	540	180					1	20 A	REC BREAK ROOM 120 REFRIGERATOR	20
21	REC OFFICE 134	20 A	1			540	1200			1	20 A	REC BREAK ROOM 120 MICROWAVE	22
23	REC OFFICE 135	20 A	1					540	1200	1	20 A	REC BREAK ROOM 120 MICROWAVE	24
25	REC BREAK ROOM 120 COFFEE MACHINE	20 A	1	600	180					3	20 A	REC ADMISSIONS OPEN OFFICE 140 FURNITURE PARTITION SYSTEM	26
27	REC BREAK ROOM 120 SINK DISPOSAL	20 A	1			864	180						28
29	REC ADMISSIONS OPEN OFFICE 130 FURNITURE PARTITION SYSTEM	20 A	3					300	180				30
31				300									32
33						300							34
35								300					36
37	REC ADMISSIONS OPEN OFFICE 130	20 A	3	300									38
39						300							40
41													42
			Total Load:	5520 VA		7164 VA		5940 VA					
			Total Amps:	46 A		60 A		50 A					

Panel Totals	
Total Conn. Load:	18624 VA
Total Est. Demand:	14312 VA
Total Conn. Current:	52 A
Total Est. Demand Current:	40 A

Notes:

Branch Panel: LS1-2

Location: ELECTRICAL CLOSET 146
Supply From: LSB2-2
Mounting: SURFACE
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 10KA
Mains Type: MCB
Bus Rating: 100 A
MCB Rating: 100 A

Notes:

#	Load Name	Trip	Poles	A		B		C		Poles	Trip	Load Name	#
1				900	842					2	20 A	FCU-C-3-150, FCU-C-3-150, FCU-C-3-150	2
3	LS1-C	100 A	3			1410	842						4
5								270	125	2	20 A	FCU-A-1-111, FCU-A-1-112, FCU-A-1-113	6
7	FCU-A-1-120, FCU-C-4-130, FCU-A-1-131	20 A	2	312	125								8
9						312	187			2	20 A	FCU-F-3-100A, FCU-A-1-135	10
11	FCU-A-1-132, FCU-A-1-133, FCU-A-1-134	20 A	2					125	187				12
13				125	198					2	45 A	CRAH 10A TELECOM 145	14
15	FCU-C-7-140, FCU-A-1-141, FCU-A-1-142	20 A	2			291	198						16
17								291	198	2	20 A	CRAH-10B TELECOM 145	18
19				60	198								20
21	REC NEMA L15-50R CORRIDOR 100B	50 A	3			60	60						22
23								60	60	3	50 A	REC NEMA L15-50R CORRIDOR 100A	24
25	Power CORRIDOR 100A	20 A	1	180	60								26
27													28
29													30
31													32
33													34
35													36
37													38
39													40
41													42
			Total Load:	2999 VA		3360 VA		1316 VA					
			Total Amps:	27 A		30 A		11 A					

Panel Totals	
Total Conn. Load:	7675 VA
Total Est. Demand:	7675 VA
Total Conn. Current:	21 A
Total Est. Demand Current:	21 A

Notes:

Branch Panel: LS1-C

Location: TELECOM 145
Supply From: LS1-2
Mounting: SURFACE
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 10KA
Mains Type: MCB
Bus Rating: 100 A
MCB Rating: 100 A

Notes:

#	Load Name	Trip	Poles	A		B		C		Poles	Trip	Load Name	#
1	REC TELECOM 145	20 A	1	540	90					2	20 A	REC TELECOM 145 SPECIAL CLG OUTLET B	2
3	REC TELECOM 145	20 A	1			540	90						4
5	REC TELECOM 145 SPECIAL CLG OUTLE...	20 A	1					180	90	2	20 A	REC TELECOM 145 SPECIAL CLG OUTLET B	6
7	REC TELECOM 145 SPECIAL CLG OUTLE...	20 A	1	180	90								8
9	POWER TELECOM 145	20 A	1			600	180			1	30 A	REC TELECOM 145 SPECIAL OUTLET C	10
11	SPARE	20 A	1					0	0	1	20 A	SPARE	12
13	SPARE	20 A	1	0	0					1	20 A	SPARE	14
15	SPARE	20 A	1			0	0			1	20 A	SPARE	16
17	SPARE	20 A	1					0	0	1	20 A	SPARE	18
19	SPACE	--	--	0	0					--	--	SPACE	20
21	SPACE	--	--			0	0			--	--	SPACE	22
23	SPACE	--	--					0	0	--	--	SPACE	24
25	SPACE	--	--	0	0					--	--	SPACE	26
27	SPACE	--	--			0	0			--	--	SPACE	28
29	SPACE	--	--					0	0	--	--	SPACE	30
31	SPACE	--	--	0	0					--	--	SPACE	32
33	SPACE	--	--			0	0			--	--	SPACE	34
35	SPACE	--	--					0	0	--	--	SPACE	36
37	SPACE	--	--	0	0								38
39	SPACE	--	--			0	0			3	30 A	SPD	40
41	SPACE	--	--					0	0				42
			Total Load:	900 VA		1410 VA		270 VA					
			Total Amps:	8 A		13 A		2 A					

Panel Totals	
Total Conn. Load:	2580 VA
Total Est. Demand:	2580 VA
Total Conn. Current:	7 A
Total Est. Demand Current:	7 A

Notes:

Branch Panel: HN2

Location: ELECTRICAL CLOSET 241
Supply From: DH
Mounting: SURFACE
Enclosure: Type 1

Volts: 480Y/277V
Phases: 3
Wires: 4

A.I.C. Rating: 22KA
Mains Type: MCB
Bus Rating: 100 A
MCB Rating: 100 A

Notes:

#	Load Name	Trip	Poles	A		B		C		Poles	Trip	Load Name	#
1				7156	333					1	20 A	LTG Room 236, 235	2
3	T-2	50 A	3			5776	331			1	20 A	LTG CORRIDOR	4
5								4451	713	1	20 A	LTG OFFICE 223	6
7	LTG	20 A	1	560									8
9	LTG MANAGER'S OFFICE 234	20 A	1			1850							10
11													12
13													14
15													16
17													18
19													20
21													22
23													24
25													26
27													28
29													30
31													32
33													34
35													36
37													38
39													40
41													42
			Total Load:	8048 VA		7957 VA		5164 VA					
			Total Amps:	31 A		30 A		19 A					

Panel Totals	
Total Conn. Load:	21168 VA
Total Est. Demand:	20568 VA
Total Conn. Current:	25 A
Total Est. Demand Current:	25 A

Notes:

US Army Corps of Engineers ®

MARK	DESCRIPTION	DATE

DESIGNED BY: D. PAXTON
DRAWN BY: D. PAXTON
CHECKED BY: Y. SOLOMON
SUBMITTED BY:
ISSUE DATE: 01 MARCH 2023
SOLICITATION NO.: W912DS-19-R-0014
CONTRACT NO.: W912DS-19-C-0031-L
FILE NUMBER:
SIZE: ANSI 'D'
FILE NAME:

US ARMY CORPS OF ENGINEERS
LINCOLN HALL
WEST POINT, NEW YORK

JACOBS / EWING COLE *A Joint Venture*

BUILDINGS 605/607 RENOVATION - LINCOLN HALL

ELECTRICAL PANEL SCHEDULES

SHEET ID

E-706

REVISED RTA SUBMISSION 3/1/2023

Branch Panel: LN2-1

Location: ELECTRICAL CLOSET 241 | **Volts:** 120/208 Wye | **A.I.C. Rating:** 10KA
Supply From: T-2 | **Phases:** 3 | **Mains Type:** MCB
Mounting: SURFACE | **Wires:** 4 | **Bus Rating:** 100 A
Enclosure: Type 1 | **MCB Rating:** 100 A

Notes:

#	Load Name	Trip	Poles	A		B		C		Poles	Trip	Load Name	#
1				1196	900								2
3	LN2-2	100 A	3			1786	1230			3	100 A	LN2-C	4
5								981	270				6
7	REC MANAGER'S OFFICE 234	20 A	1	1080	900					1	20 A	REC RETAIL STORE 230	8
9	REC RETAIL STORE 230	20 A	1			900	360			1	20 A	REC RETAIL STORE 230	10
11	REC RETAIL STORE 230	20 A	1					900	720	1	20 A	REC ROOM 200B, X2-102	12
13	REC CORRIDOR 200B	20 A	1	900	720					1	20 A	REC RESTROOMS 243 & 244	14
15	REC CENTRAL STAIR 201	20 A	1			360	360			1	20 A	POWER MEN'S RESTROOM 244	16
17	REC EWC CORRIDOR 200B	20 A	1					800	360	1	20 A	POWER WOMEN'S RESTROOM 243	18
19	REC RETAIL OPEN OFFICE 235 & OFFIC...	20 A	1	900	500					1	20 A	REC RETAIL OPEN OFFICE 235 PRINTER	20
21	REC RETAIL OPEN OFFICE 235 & OFFIC...	20 A	1			360	360			1	20 A	REC ELECTRICAL CLOSET 241	22
23	REC RETAIL OPEN OFFICE 235	20 A	1					360	60				24
25					60					3	50 A	REC NEMA L15-50R CORRIDOR-1 200B	26
27							60						28
29													30
31													32
33													34
35													36
37													38
39													40
41													42
		Total Load:		7156 VA		5776 VA		4451 VA					
		Total Amps:		61 A		50 A		37 A					

Panel Totals	
Total Conn. Load:	17382 VA
Total Est. Demand:	16782 VA
Total Conn. Current:	48 A
Total Est. Demand Current:	47 A

Notes:

Branch Panel: LN2-2

Location: ELECTRICAL CLOSET 241 | **Volts:** 120/208 Wye | **A.I.C. Rating:** 10KA
Supply From: LN2-1 | **Phases:** 3 | **Mains Type:** MCB
Mounting: SURFACE | **Wires:** 4 | **Bus Rating:** 100 A
Enclosure: Type 1 | **MCB Rating:** 100 A

Notes:

#	Load Name	Trip	Poles	A		B		C		Poles	Trip	Load Name	#
1	FCU-A-1-234, FCU-C-3-230A, FCU-C-3-230B	20 A	2	603	187					2	20 A	FCU-D-3-244, FCU-G-1-243, FCU-G-1-244	2
3						603	187						4
5	FCU-A-1-236, FCU-A-2-241, FCU-C-5-235	20 A	2					208	198	2	20 A	CRAH 8A TELECOM 242	6
7				208	198								8
9	CRAH 8B TELECOM 242	20 A	2			395	600			1	20 A	NAC PANEL ELECTRICAL CLOSET 181	10
11								395	180	1	20 A	LOC PANEL CORRIDOR 200B	12
13													14
15													16
17													18
19													20
21													22
23													24
25													26
27													28
29													30
31													32
33													34
35													36
37													38
39													40
41													42
		Total Load:		1196 VA		1786 VA		981 VA					
		Total Amps:		10 A		15 A		8 A					

Panel Totals	
Total Conn. Load:	3962 VA
Total Est. Demand:	3962 VA
Total Conn. Current:	11 A
Total Est. Demand Current:	11 A

Notes:

Branch Panel: LN2-C

Location: TELECOM 242 | **Volts:** 120/208 Wye | **A.I.C. Rating:** 10KA
Supply From: LN2-1 | **Phases:** 3 | **Mains Type:** MCB
Mounting: SURFACE | **Wires:** 4 | **Bus Rating:** 100 A
Enclosure: Type 1 | **MCB Rating:** 100 A

Notes:

#	Load Name	Trip	Poles	A		B		C		Poles	Trip	Load Name	#
1	REC TELECOM 242	20 A	1	540	90					2	20 A	REC TELECOM 242 SPECIAL CLG OUTLET B	2
3	REC TELECOM 242	20 A	1			360	90						4
5	REC TELECOM 242 SPECIAL CLG OUTLE...	20 A	1					180	90	2	20 A	REC TELECOM 242 SPECIAL CLG OUTLET B	6
7	REC TELECOM 242 SPECIAL CLG OUTLE...	20 A	1	180	90								8
9	SECURITY SYSTEM PANEL TELECOM 242	20 A	1			600	180			1	30 A	REC TELECOM 242 SPECIAL OUTLET C	10
11	SPARE	20 A	1					0	0	1	20 A	SPARE	12
13	SPARE	20 A	1	0	0					1	20 A	SPARE	14
15	SPARE	20 A	1			0	0			--	--	SPACE	16
17	SPACE	--	--					0	0	--	--	SPACE	18
19	SPACE	--	--	0	0					--	--	SPACE	20
21	SPACE	--	--			0	0			--	--	SPACE	22
23	SPACE	--	--					0	0	--	--	SPACE	24
25	SPACE	--	--	0	0					--	--	SPACE	26
27	SPACE	--	--			0	0			--	--	SPACE	28
29	SPACE	--	--					0	0	--	--	SPACE	30
31	SPACE	--	--	0	0					--	--	SPACE	32
33	SPACE	--	--			0	0			--	--	SPACE	34
35	SPACE	--	--					0	0	--	--	SPACE	36
37	SPACE	--	--	0	0								38
39	SPACE	--	--			0	0			3	30 A	SPD	40
41	SPACE	--	--					0	0				42
		Total Load:		900 VA		1230 VA		270 VA					
		Total Amps:		8 A		11 A		2 A					

Panel Totals	
Total Conn. Load:	2400 VA
Total Est. Demand:	2400 VA
Total Conn. Current:	7 A
Total Est. Demand Current:	7 A

Notes:

Branch Panel: LS2-1

Location: ELECTRICAL CLOSET 209 | **Volts:** 120/208 Wye | **A.I.C. Rating:** 10KA
Supply From: LSB2-1 | **Phases:** 3 | **Mains Type:** MCB
Mounting: SURFACE | **Wires:** 4 | **Bus Rating:** 100 A
Enclosure: Type 1 | **MCB Rating:** 100 A

Notes:

#	Load Name	Trip	Poles	A		B		C		Poles	Trip	Load Name	#
1	REC OFFICE 223	20 A	1	900	720					1	20 A	REC EXECUTIVE CONFERENCE 224	2
3	REC ROOM 200A, 223	20 A	1			720	540			1	20 A	REC EXECUTIVE CONFERENCE 224...	4
5	REC OFFICE 222	20 A	1					900	720	1	20 A	REC EXECUTIVE CONFERENCE 224	6
7	REC EXECUTIVE OPEN OFFICE 218	20 A	1	900	360					1	20 A	REC CONFERENCE ROOM 220 MONITOR	8
9	REC CONFERENCE ROOM 220	20 A	1			720	720			1	20 A	REC CONFERENCE ROOM 220	10
11	REC CONFERENCE ROOM 220	20 A	1					900	720	1	20 A	REC CONFERENCE ROOM 220	12
13	REC OFFICE 226 MONITOR	20 A	1	900	720					1	20 A	REC MOTHER'S ROOM 207	14
15	REC ROOM 209, 200A, X2-101	20 A	1			720	500			1	20 A	REC OUTREACH OPEN OFFICE 210	16
17	REC ROOM 205	20 A	1					900	1080	1	20 A	REC BREAKROOM 208	18
19	REC OFFICE 216	20 A	1	1080	900					1	20 A	REC OUTREACH OPEN OFFICE 210	20
21	REC OFFICE 214	20 A	1			1080	360						22
23	REC OFFICE 212	20 A	1					1080	360	3	20 A	REC OUTREACH OPEN OFFICE 210 FURNITURE PARTITION SYSTEM	24
25	REC BREAKROOM 208 MICROWAVE	20 A	1	1200	360								26
27	REC BREAKROOM 208 MICROWAVE	20 A	1			1200	600			1	20 A	REC BREAKROOM 208 COFFEE MACHINE	28
29	REC BREAKROOM 208 DISPOSAL	20 A	1					864	600	1	20 A	REC BREAKROOM 208 REFRIGERATOR	30
31	REC BREAKROOM 208 TOASTER OVEN	20 A	1	1500	60								32
33						60	60			3	50 A	REC NEMA L15-50R CORRIDOR 200A	34
35	REC NEMA L15-50R CORRIDOR 200A	50 A	3					60	60				36
37				60									38
39													40
41													42
		Total Load:		9660 VA		7280 VA		8244 VA					
		Total Amps:		82 A		61 A		70 A					

Panel Totals	
Total Conn. Load:	25184 VA
Total Est. Demand:	18672 VA
Total Conn. Current:	70 A
Total Est. Demand Current:	52 A

Notes:

US Army Corps of Engineers ®

MARK	DESCRIPTION	DATE

DESIGNED BY: D. PAXTON
DRAWN BY: D. PAXTON
CHECKED BY: Y. SOLOMON
SUBMITTED BY:
ISSUE DATE: 01 MARCH 2023
SOLICITATION NO.: W912DS-19-R-0014
CONTRACT NO.: W912DS-19-C-0031-L
FILE NUMBER:
SIZE: ANSI 'D'
FILE NAME:

US ARMY CORPS OF ENGINEERS
LINCOLN HALL
WEST POINT, NEW YORK

JACOBS / EWING COLE *A Joint Venture*

BUILDINGS 605/607 RENOVATION - LINCOLN HALL

ELECTRICAL PANEL SCHEDULES

SHEET ID

E-707

REVISED RTA SUBMISSION 3/1/2023

Branch Panel: LS2-2

Location: ELECTRICAL CLOSET 209
Supply From: LSB2-2
Mounting: SURFACE
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 10KA
Mains Type: MCB
Bus Rating: 100 A
MCB Rating: 100 A

Notes:

#	Load Name	Trip	Poles	A		B		C		Poles	Trip	Load Name	#
1				720	208					2	20 A	FCU-A-1-222, FCU-A-1-223, FCU-C-13-224	2
3	LS2-C	100 A	3			1230	208						4
5								270	125	2	20 A	FCUA-1-205, FCU-A-1-208, FCU-A-1-211	6
7	FCUA-1-212, FCU-A-1-213, FCU-A-1-214	20 A	2	125	125								8
9						125	312						10
11	FCU-A-1-215, FCU-A-1-216, FCU-C-4-210	20 A	2					312	312	2	20 A	FCU-A-1-222, FCU-A-1-223, FCU-D-5-220	12
13				312	300					1	20 A	BAS PANEL CORRIDOR 200A	14
15	CRAH 9A TELECOM 219	20 A	2			198	180			1	20 A	LOC PANEL STAIR A X2-101	16
17								198					18
19													20
21													22
23													24
25													26
27													28
29													30
31													32
33													34
35													36
37													38
39													40
41													42
			Total Load:	1790 VA		2252 VA		1216 VA					
			Total Amps:	16 A		20 A		10 A					

Panel Totals	
Total Conn. Load:	5258 VA
Total Est. Demand:	5258 VA
Total Conn. Current:	15 A
Total Est. Demand Current:	15 A

Notes:

Branch Panel: LS2-C

Location: TELECOM 219
Supply From: LS2-2
Mounting: SURFACE
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 10KA
Mains Type: MCB
Bus Rating: 100 A
MCB Rating: 100 A

Notes:

#	Load Name	Trip	Poles	A		B		C		Poles	Trip	Load Name	#
1	REC TELECOM 219	20 A	1	360	90					2	20 A	REC TELECOM 219 SPECIAL CLG OUTLET B	2
3	REC TELECOM 219	20 A	1			360	90						4
5	REC TELECOM 219 SPECIAL CLG OUTLE...	20 A	1					180	90	2	20 A	REC TELECOM 219 SPECIAL CLG OUTLET B	6
7	REC TELECOM 219 SPECIAL CLG OUTLE...	20 A	1	180	90								8
9	SECURITY SYSTEM PANEL TELECOM 145	20 A	1			600	180			1	30 A	REC TELECOM 219 SPECIAL OUTLET C	10
11	SPARE	20 A	1					0	0	1	20 A	SPARE	12
13	SPARE	20 A	1	0	0					1	20 A	SPARE	14
15	SPARE	20 A	1			0	0			1	20 A	SPARE	16
17	SPARE	20 A	1					0	0	1	20 A	SPARE	18
19	SPACE	--	--	0	0					--	--	SPACE	20
21	SPACE	--	--			0	0			--	--	SPACE	22
23	SPACE	--	--					0	0	--	--	SPACE	24
25	SPACE	--	--	0	0					--	--	SPACE	26
27	SPACE	--	--			0	0			--	--	SPACE	28
29	SPACE	--	--					0	0	--	--	SPACE	30
31	SPACE	--	--	0	0					--	--	SPACE	32
33	SPACE	--	--			0	0			--	--	SPACE	34
35	SPACE	--	--					0	0	--	--	SPACE	36
37	SPACE	--	--	0	0								38
39	SPACE	--	--			0	0			3	30 A	SPD	40
41	SPACE	--	--					0	0				42
			Total Load:	720 VA		1230 VA		270 VA					
			Total Amps:	7 A		11 A		2 A					

Panel Totals	
Total Conn. Load:	2220 VA
Total Est. Demand:	2220 VA
Total Conn. Current:	6 A
Total Est. Demand Current:	6 A

Notes:

Branch Panel: HN3

Location: ELECTRICAL CLOSET 361
Supply From: DH
Mounting: SURFACE
Enclosure: Type 1

Volts: 480Y/277V
Phases: 3
Wires: 4

A.I.C. Rating: 22KA
Mains Type: MCB
Bus Rating: 100 A
MCB Rating: 100 A

Notes:

#	Load Name	Trip	Poles	A		B		C		Poles	Trip	Load Name	#
1				7572	354					1	20 A	LTG Room 350, 351	2
3	T-3	50 A	3			5112	603			1	20 A	LTG VIDEO EDITING SUITE 344	4
5								8000	228	1	20 A	LTG CORRIDOR	6
7	LTG	20 A	1	396									8
9	LTG OFFICE 323	20 A	1			545							10
11	LTG TELEVISION STUDIO 317	20 A	1					225					12
13													14
15													16
17													18
19													20
21													22
23													24
25													26
27													28
29													30
31													32
33													34
35													36
37													38
39													40
41													42
			Total Load:	8321 VA		6260 VA		8453 VA					
			Total Amps:	31 A		23 A		32 A					

Panel Totals	
Total Conn. Load:	23034 VA
Total Est. Demand:	21154 VA
Total Conn. Current:	28 A
Total Est. Demand Current:	25 A

Notes:

Branch Panel: LN3-1

Location: ELECTRICAL CLOSET 361
Supply From: T-3
Mounting: SURFACE
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 10KA
Mains Type: MCB
Bus Rating: 100 A
MCB Rating: 100 A

Notes:

#	Load Name	Trip	Poles	A		B		C		Poles	Trip	Load Name	#
1				2112	900					1	20 A	REC VIDEO EDITING SUITE 345	2
3	LN3-2	100 A	3			1092	900			1	20 A	REC VIDEO EDITING SUITE 344	4
5								3000	900	1	20 A	REC VIDEO EDITING SUITE 343	6
7	REC VIDEO EDITING SUITE 342	20 A	1	900	900					1	20 A	REC GREEN ROOM 340	8
9	REC PHOTO STUDIO 341	20 A	1			900	720			1	20 A	REC ROOM 346, 300D, 300C	10
11	REC PHOTO STUDIO 341	20 A	1					900	720	1	20 A	REC ROOM 302, 300C	12
13	REC PHOTO STUDIO 341	20 A	1	720	1080					1	20 A	REC VIDEO EDITING SUITE 362	14
15	REC ROOM 351, 350	20 A	1			720	360			1	20 A	REC ELECTRICAL CLOSET 361	16
17	REC ROOM 351 MONITOR, 350 MONITOR	20 A	1					900	720	1	20 A	REC MEN'S & WOMENS RESTROOM 364 ...	18
19	TEAM MEETING AREA 351	20 A	1	900	60								20
21	RESTROOM 364 & 363 FLUSH VAVLE	20 A	1			360	60			3	50 A	REC NEMA L15-50R CORRIDOR 300C	22
23	REC CORRIDOR 300C EWC	20 A	1					800	60				24
25													26
27													28
29													30
31													32
33													34
35													36
37													38
39													40
41													42
			Total Load:	7572 VA		5112 VA		8000 VA					
			Total Amps:	66 A		43 A		70 A					

Panel Totals	
Total Conn. Load:	20684 VA
Total Est. Demand:	18804 VA
Total Conn. Current:	57 A
Total Est. Demand Current:	52 A

Notes:

US Army Corps of Engineers ®

MARK	DESCRIPTION	DATE

DESIGNED BY: D. PAXTON
DRAWN BY: D. PAXTON
CHECKED BY: Y. SOLOMON
SUBMITTED BY:

ISSUE DATE: 01 MARCH 2023
SOLICITATION NO.: W912DS-19-R-0014
CONTRACT NO.: W912DS-19-C-0031-L
FILE NUMBER:
FILE NAME:
SIZE: ANSI 'D'

US ARMY CORPS OF ENGINEERS
LINCOLN HALL
WEST POINT, NEW YORK

JACOBS / EWING COLE *A Joint Venture*

BUILDINGS 605/607 RENOVATION - LINCOLN HALL

ELECTRICAL PANEL SCHEDULES

SHEET ID

E-708

REVISED RTA SUBMISSION 3/1/2023

Branch Panel: LN3-2

Location: ELECTRICAL CLOSET 361
Supply From: LN3-1
Mounting: SURFACE
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 10KA
Mains Type: MCB
Bus Rating: 100 A
MCB Rating: 100 A

Notes:

#	Load Name	Trip	Poles	A		B		C		Poles	Trip	Load Name	#
1				125	187					2	20 A	FCUD-3-364, FCU-G-1-363, FCUD-G-1-364	2
3	FCU-A-1-350, FCU-A-1-351, FCU-A-2-361	20 A	2			125	187						4
5								624	1176	1	20 A	CBP 3 VIDEO CORRIDOR 346	6
7	FCUA-1-340, FCU-H-1-341	20 A	2	624	1176					1	20 A	CBP 2 VIDEO CORRIDOR 346	8
9	NAC PANEL ELECTRICAL CLOSET 361	20 A	1			600	180			1	20 A	LOC PANEL CORRIDOR 300C	10
11	BAS PANELS VIDEO CORR 346 & VEST....	20 A	1					1200					12
13													14
15													16
17													18
19													20
21													22
23													24
25													26
27													28
29													30
31													32
33													34
35													36
37													38
39													40
41													42
		Total Load:		2112 VA		1092 VA		3000 VA					
		Total Amps:		19 A		9 A		26 A					

Panel Totals	
Total Conn. Load:	6204 VA
Total Est. Demand:	6204 VA
Total Conn. Current:	17 A
Total Est. Demand Current:	17 A

Notes:

Branch Panel: LS3-1

Location: ELECTRICAL CLOSET 337
Supply From: LSB2-1
Mounting: SURFACE
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 10KA
Mains Type: MCB
Bus Rating: 100 A
MCB Rating: 100 A

Notes:

#	Load Name	Trip	Poles	A		B		C		Poles	Trip	Load Name	#
1	REC IT OPEN OFFICE 330	20 A	1	720	540					1	20 A	REC IT OPEN OFFICE 330	2
3	REC OFFICE 333	20 A	1			540	900			1	20 A	REC HUDDLE ROOM 331 MONITOR	4
5	REC OFFICE 332	20 A	1					540	540	1	20 A	REC ROOM 300A, 300B	6
7	REC ROOM 337, 300B	20 A	1	1080	540					1	20 A	REC OFFICE 321	8
9	REC STORAGE 335	20 A	1			720	540			1	20 A	REC OUTREACH OPEN OFFICE 320	10
11	REC OFFICE 322	20 A	1					540	540	1	20 A	REC ROOM 323	12
13	REC BREAKROOM 336	20 A	1	720	500					1	20 A	REC COPY / PRINT / MAILROOM 334...	14
15	REC COPY / PRINT / MAILROOM 334	20 A	1			720	500			1	20 A	REC COPY / PRINT / MAILROOM 334...	16
17	REC COPY / PRINT / MAILROOM 334...	20 A	1					500	600	1	20 A	REC BREAKROOM 336 REFRIGERATOR	18
19	REC BREAKROOM 336 MICROWAVE	20 A	1	1200	600					1	20 A	REC BREAKROOM 336 COFFEE MACHINE	20
21	REC BREAKROOM 336 MICROWAVE	20 A	1			1200	500			1	20 A	REC OUTREACH OPEN OFFICE 320...	22
23	REC BREAKROOM 336 DISPOSAL	20 A	1					864					24
25					60								26
27						60	60			3	50 A	REC NEMA L15-50R CORRIDOR 300A	28
29	REC NEMA L15-50R CORRIDOR 300B	50 A	3					60	60				30
31				60									32
33													34
35													36
37													38
39													40
41													42
		Total Load:		6020 VA		5740 VA		4244 VA					
		Total Amps:		52 A		50 A		35 A					

Panel Totals	
Total Conn. Load:	16004 VA
Total Est. Demand:	13002 VA
Total Conn. Current:	44 A
Total Est. Demand Current:	36 A

Notes:

Branch Panel: LS3-2

Location: ELECTRICAL CLOSET 337
Supply From: LSB2-2
Mounting: SURFACE
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 10KA
Mains Type: MCB
Bus Rating: 100 A
MCB Rating: 100 A

Notes:

#	Load Name	Trip	Poles	A		B		C		Poles	Trip	Load Name	#
1				720	125					2	20 A	FCU-A-1-331, FCU-A-1-332, FCU-A-1-333	2
3	LS3-C	100 A	3			1230	125						4
5								270	458	2	20 A	FCU-D-6-311, FCU-D-7-311, FCU-D-9-313	6
7	FCU-A-1-334, FCU-A-2-316, FCU-C-6-330	20 A	2	208	458								8
9						208	208			2	20 A	FCU-A-1-321, FCU-A-1-323, FCU-C-5-320	10
11	FCU-A-1-322, FCU-A-1-336	20 A	2					83	208				12
13				83	198					2	45 A	CAH 11A TELECOM ROOOM 235	14
15						396	198						16
17	CRAH-1A SERVER ROOM / MCR 314	20 A	3					396	1518	2	20 A	BCU-1 MECH 312	18
19				396	1518								20
21						396	1176			1	20 A	CBP-1 COPY / PRINT / MAILROOM 334	22
23	CRAH-1B SERVER ROOM / MCR 314	20 A	3					396	180	1	20 A	LOC PANEL CORRIDOR 300A	24
25				396									26
27													28
29													30
31													32
33													34
35													36
37													38
39													40
41													42
		Total Load:		4101 VA		3936 VA		3509 VA					
		Total Amps:		35 A		33 A		29 A					

Panel Totals	
Total Conn. Load:	11546 VA
Total Est. Demand:	11546 VA
Total Conn. Current:	32 A
Total Est. Demand Current:	32 A

Notes:

Branch Panel: LS3-C

Location: TELECOM 325
Supply From: LS3-2
Mounting: SURFACE
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 10KA
Mains Type: MCB
Bus Rating: 100 A
MCB Rating: 100 A

Notes:

#	Load Name	Trip	Poles	A		B		C		Poles	Trip	Load Name	#
1	REC TELECOM 325	20 A	1	360	90					2	20 A	REC TELECOM 325 SPECIAL CLG OUTLET B	2
3	REC TELECOM 325	20 A	1			360	90						4
5	REC TELECOM 325 SPECIAL CLG OUTLE...	20 A	1					180	90	2	20 A	REC TELECOM 325 SPECIAL CLG OUTLET B	6
7	REC TELECOM 325 SPECIAL CLG OUTLE...	20 A	1	180	90								8
9	SECURITY SYSTEM PANEL TELECOM 325	20 A	1			600	180			1	30 A	REC TELECOM 325 SPECIAL OUTLET C	10
11	SPARE	20 A	1					0	0	1	20 A	SPARE	12
13	SPARE	20 A	1	0	0					1	20 A	SPARE	14
15	SPARE	20 A	1			0	0			1	20 A	SPARE	16
17	SPARE	20 A	1					0	0	1	20 A	SPARE	18
19	SPACE	--	--	0	0					--	--	SPACE	20
21	SPACE	--	--			0	0			--	--	SPACE	22
23	SPACE	--	--					0	0	--	--	SPACE	24
25	SPACE	--	--	0	0					--	--	SPACE	26
27	SPACE	--	--			0	0			--	--	SPACE	28
29	SPACE	--	--					0	0	--	--	SPACE	30
31	SPACE	--	--	0	0					--	--	SPACE	32
33	SPACE	--	--			0	0			--	--	SPACE	34
35	SPACE	--	--					0	0	--	--	SPACE	36
37	SPACE	--	--	0	0								38
39	SPACE	--	--			0	0			3	30 A	SPD	40
41	SPACE	--	--					0	0				42
		Total Load:		720 VA		1230 VA		270 VA					
		Total Amps:		7 A		11 A		2 A					

Panel Totals	
Total Conn. Load:	2220 VA
Total Est. Demand:	2220 VA
Total Conn. Current:	6 A
Total Est. Demand Current:	6 A

Notes:

US Army Corps of Engineers ®

MARK	DESCRIPTION	DATE

DESIGNED BY: D. PAXTON
DRAWN BY: D. PAXTON
CHECKED BY: Y. SOLOMON
SUBMITTED BY:
SIZE: ANSI 'D'
FILE NAME:

ISSUE DATE: 01 MARCH 2023
SOLICITATION NO.: W912DS-19-R-0014
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US ARMY CORPS OF ENGINEERS
LINCOLN HALL
WEST POINT, NEW YORK

JACOBS / EWING COLE *A Joint Venture*

BUILDINGS 605/607 RENOVATION - LINCOLN HALL

ELECTRICAL PANEL SCHEDULES

SHEET ID

E-709

REVISED RTA SUBMISSION 3/1/2023

Branch Panel: HN4

Location: ELECTRICAL CLOSET 421
Supply From: DH
Mounting: SURFACE
Enclosure: Type 1

Volts: 480/277 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 22KA
Mains Type: MCB
Bus Rating: 100 A
MCB Rating: 100 A

Notes:

#	Load Name	Trip	Poles	A	B	C	Poles	Trip	Load Name	#
1				10596	412		1	20 A	LTG EQUIPMENT LOAN 412	2
3	T-4	50 A	3		7101	182	1	20 A	LTG CORRIDOR 400	4
5						10083 564	1	20 A	LTG SHARED CONFERENCE ROOM 411	6
7	LTG ROOF ACCESS 103, ELEV RM R101	20 A	1	176						8
9										10
11										12
13										14
15										16
17										18
19										20
21										22
23										24
25										26
27										28
29										30
31										32
33										34
35										36
37										38
39										40
41										42
		Total Load:		11183 VA	7284 VA	10647 VA				
		Total Amps:		42 A	26 A	40 A				

Panel Totals	
Total Conn. Load:	29113 VA
Total Est. Demand:	27683 VA
Total Conn. Current:	35 A
Total Est. Demand Current:	33 A

Notes:

Branch Panel: LN4-1

Location: ELECTRICAL CLOSET 421
Supply From: T-4
Mounting: SURFACE
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 10KA
Mains Type: MCB
Bus Rating: 100 A
MCB Rating: 100 A

Notes:

#	Load Name	Trip	Poles	A	B	C	Poles	Trip	Load Name	#
1				6036	900					2
3	LN4-2	100 A	3		2211	1230	3	100 A	LN4-C	4
5						5173 1170				6
7	REC EQUIPMENT LOAN 412	20 A	1	720	360		1	20 A	REC SHARED CONFERENCE 411...	8
9	REC SHARED CONFERENCE ROOM 411	20 A	1		540	900	1	20 A	REC ROOM 400, X4-102	10
11	REC SHARED CONFERENCE ROOM 411	20 A	1			540 540	1	20 A	REC ROOM 402, 404	12
13	REC SHARED CONFERENCE ROOM 411	20 A	1	360	360		1	20 A	REC ROOM 412, 413	14
15	REC SHARED CONFERENCE ROOM 411	20 A	1		360	360	1	20 A	POWER RESTROOM 423 & 424 FLUSH...	16
17	REC SHARED CONFERENCE ROOM 411	20 A	1			360 800	1	20 A	REC CORRIDOR 400 EWC	18
19	REC RESTROOM ROOM 423 & 424	20 A	1	720	360		1	20 A	REC PRINTING/LAMINATING 410...	20
21	REC ELECTRICAL CLOSET 421	20 A	1		360	720	1	20 A	REC PRINTING/LAMINATING 410 HEPA 500	22
23	REC PRINTING/LAMINATING 410	20 A	1			720 720	1	20 A	REC PRINTING/LAMINATING 410	24
25	REC PRINTING/LAMINATING 410	20 A	1	720						26
27	REC PRINTING/LAMINATING 410...	20 A	1		360					28
29						60				30
31	REC NEMA L15-50R CORRIDOR 400	50 A	3	60						32
33					60					34
35										36
37										38
39										40
41										42
	Total Load:			10596 VA	7101 VA	10083 VA				
	Total Amps:			92 A	59 A	88 A				

Panel Totals	
Total Conn. Load:	27780 VA
Total Est. Demand:	26350 VA
Total Conn. Current:	77 A
Total Est. Demand Current:	73 A

Notes:

Branch Panel: LN4-2

Location: ELECTRICAL CLOSET 421
Supply From: LN4-1
Mounting: SURFACE
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 10KA
Mains Type: MCB
Bus Rating: 100 A
MCB Rating: 100 A

Notes:

#	Load Name	Trip	Poles	A	B	C	Poles	Trip	Load Name	#
1				270	187					2
3	FCU-A-2-421, FCU-C-9-412	20 A	2		270	187	2	20 A	FCU-D-3-401, FCU-G-1-423, FCU-G-1-424	4
5	FCU-C-12-410A, FCU-C-12-410B,	20 A	2			686 198	2	20 A	CRAH 5B TELECOM 422	6
7	FCU-D-5-411			686	198					8
9	UH 5 ROOF ACCESS SPACE R103	20 A	1		144	1	1	20 A	EF 5 ROOF ACCESS SPACE R103	10
11	EF-1, EF-2A, EF- 2B ROOF	20 A	1			4 360	1	20 A	REC WP ROOF	12
13	REC ROOF ACCESS SPACE R103	20 A	1	720	229		2	20 A	FCU-D-5-R101 ELEVATOR MACHINE RM R101	14
15	REC ELEVATOR MACHINE RM R101	20 A	1		180	229				16
17	EWH-3 JANITOR'S CLOSET 420	45 A	2			3350 395	2	20 A	CRAH-5A TELECOM 422	18
19				3350	395					20
21	NAC PANEL ELECTRICAL CLOSET 421	20 A	1		1200					22
23	LOC PANEL CORRIDOR 400	20 A	1			180				24
25										26
27										28
29										30
31										32
33										34
35										36
37										38
39										40
41										42
	Total Load:			6036 VA	2211 VA	5173 VA				
	Total Amps:			54 A	18 A	47 A				

Panel Totals	
Total Conn. Load:	13420 VA
Total Est. Demand:	13420 VA
Total Conn. Current:	37 A
Total Est. Demand Current:	37 A

Notes:

Branch Panel: LN4-C

Location: TELECOM 422
Supply From: LN4-1
Mounting: SURFACE
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 10KA
Mains Type: MCB
Bus Rating: 100 A
MCB Rating: 100 A

Notes:

#	Load Name	Trip	Poles	A	B	C	Poles	Trip	Load Name	#
1	REC TELECOM 422	20 A	1	540	90					2
3	REC TELECOM 422	20 A	1		360	90	2	20 A	REC TELECOM 422 SPECIAL CLG OUTLET B	4
5	REC TELECOM 422 SPECIAL CLG OUTLE...	20 A	1			180 90				6
7	Other TELECOM 422	20 A	1	180	90		2	20 A	REC TELECOM 422 SPECIAL CLG OUTLET B	8
9	SECURITY SYSTEM PANEL TELECOM 422	20 A	1		600	180				10
11	HVAC	20 A	1			900 0	1	20 A	SPARE	12
13	SPARE	20 A	1	0	0		1	20 A	SPARE	14
15	SPARE	20 A	1		0	0	1	20 A	SPARE	16
17	SPARE	20 A	1			0 0	1	20 A	SPARE	18
19	SPACE	--	--	0	0		--	--	SPACE	20
21	SPACE	--	--		0	0	--	--	SPACE	22
23	SPACE	--	--			0 0	--	--	SPACE	24
25	SPACE	--	--	0	0		--	--	SPACE	26
27	SPACE	--	--		0	0	--	--	SPACE	28
29	SPACE	--	--			0 0	--	--	SPACE	30
31	SPACE	--	--	0	0		--	--	SPACE	32
33	SPACE	--	--		0	0	--	--	SPACE	34
35	SPACE	--	--			0 0	--	--	SPACE	36
37	SPACE	--	--	0	0					38
39	SPACE	--	--		0	0	3	30 A	SPD	40
41	SPACE	--	--			0 0				42
	Total Load:			900 VA	1230 VA	1170 VA				
	Total Amps:			8 A	11 A	10 A				

Panel Totals	
Total Conn. Load:	3300 VA
Total Est. Demand:	3300 VA
Total Conn. Current:	9 A
Total Est. Demand Current:	9 A

Notes:

REVISED RTA SUBMISSION 3/1/2023

US Army Corps of Engineers ®

MARK	DESCRIPTION	DATE

DESIGNED BY: D. PAXTON
DRAWN BY: D. PAXTON
CHECKED BY: Y. SOLOMON
SUBMITTED BY:
SIZE: ANSI 'D'
FILE NAME:

ISSUE DATE: 01 MARCH 2023
SOLICITATION NO.: W912DS-19-R-0014
CONTRACT NO.: W912DS-19-C-0031-L
FILE NUMBER:

US ARMY CORPS OF ENGINEERS
LINCOLN HALL
WEST POINT, NEW YORK

JACOBS / EWING COLE A Joint Venture

BUILDINGS 605/607 RENOVATION - LINCOLN HALL

ELECTRICAL PANEL SCHEDULES

SHEET ID

E-710

Branch Panel: HS3-TV

Location: ELECTRICAL 316
Supply From: DH
Mounting: SURFACE
Enclosure: Type 1

Volts: 480Y/277V
Phases: 3
Wires: 4

A.I.C. Rating: 22KA
Mains Type: MCB
Bus Rating: 200 A
MCB Rating: 200 A

Notes:

#	Load Name	Trip	Poles	A		B		C		Poles	Trip	Load Name	#
1				9260	0					1	20 A	SPARE	2
3	T-TV	125 A	3			8360	0			1	20 A	SPARE	4
5								9600	0	1	20 A	SPARE	6
7	SPARE	20 A	1	0	0					1	20 A	SPARE	8
9	SPARE	20 A	1			0	0			1	20 A	SPARE	10
11	SPARE	20 A	1					0	0	1	20 A	SPARE	12
13	SPACE	--	--	0	0					--	--	SPACE	14
15	SPACE	--	--			0	0			--	--	SPACE	16
17	SPACE	--	--					0	0	--	--	SPACE	18
19	SPACE	--	--	0	0					--	--	SPACE	20
21	SPACE	--	--			0	0			--	--	SPACE	22
23	SPACE	--	--					0	0	--	--	SPACE	24
25	SPACE	--	--	0	0					--	--	SPACE	26
27	SPACE	--	--			0	0			--	--	SPACE	28
29	SPACE	--	--					0	0	--	--	SPACE	30
31	SPACE	--	--	0	0					--	--	SPACE	32
33	SPACE	--	--			0	0			--	--	SPACE	34
35	SPACE	--	--					0	0	--	--	SPACE	36
37	SPACE	--	--	0	0								38
39	SPACE	--	--			0	0			3	30 A	SPD	40
41	SPACE	--	--					0	0				42
			Total Load:	9260 VA		8360 VA		9600 VA					
			Total Amps:	34 A		30 A		35 A					

Panel Totals	
Total Conn. Load:	27220 VA
Total Est. Demand:	23610 VA
Total Conn. Current:	33 A
Total Est. Demand Current:	28 A

Notes:

Branch Panel: LS3-TV

Location: ELECTRICAL 316
Supply From: T-TV
Mounting: SURFACE
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 10KA
Mains Type: MCB
Bus Rating: 200 A
MCB Rating: 200 A

Notes:

#	Load Name	Trip	Poles	A		B		C		Poles	Trip	Load Name	#
1				4410	540					1	20 A	REC Room 315, 316	2
3	LS3-TV2	150 A	3			3510	360			1	20 A	CEILING REC -TV STUDIO LIGHTS B217	4
5								4440	360	1	20 A	CEILING REC -TV STUDIO LIGHTS B217	6
7	CEILING REC -TV STUDIO LIGHTS B217	20 A	1	360	360					1	20 A	REC TELEVISION STUDIO 317	8
9	CEILING REC -TV STUDIO LIGHTS B217	20 A	1			360	360			1	20 A	REC TELEVISION STUDIO 317	10
11	CEILING REC -TV STUDIO LIGHTS B217	20 A	1					360	360	1	20 A	REC TELEVISION STUDIO 317	12
13				2610	180					1	20 A	REC TELEVISION STUDIO 317	14
15	LS3-TV3	20 A	3			2610	360			1	20 A	REC TELEVISION STUDIO 317	16
17								3360	360	1	20 A	REC TELEVISION STUDIO 317	18
19	REC TELEVISION STUDIO 317 (4)...	20 A	1	800	0					1	20 A	SPARE	20
21	REC TELEVISION STUDIO 317 (4)...	20 A	1			800	0			1	20 A	SPARE	22
23	REC TELEVISION STUDIO 317	20 A	1					360	0	1	20 A	SPARE	24
25	SPARE	20 A	1	0	0					1	20 A	SPARE	26
27	SPARE	20 A	1			0	0			1	20 A	SPARE	28
29	SPARE	20 A	1					0	0	1	20 A	SPARE	30
31	SPACE	--	--	0	0					--	--	SPACE	32
33	SPACE	--	--			0	0			--	--	SPACE	34
35	SPACE	--	--					0	0	--	--	SPACE	36
37	SPACE	--	--	0	0								38
39	SPACE	--	--			0	0			3	30 A	SPD	40
41	SPACE	--	--					0	0				42
			Total Load:	9260 VA		8360 VA		9600 VA					
			Total Amps:	78 A		70 A		81 A					

Panel Totals	
Total Conn. Load:	27220 VA
Total Est. Demand:	23610 VA
Total Conn. Current:	76 A
Total Est. Demand Current:	66 A

Notes:

Branch Panel: LS3-TV2

Location: SERVER ROOM / MCR 314
Supply From: LS3-TV
Mounting: SURFACE
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 10KA
Mains Type: MCB
Bus Rating: 150 A
MCB Rating: 150 A

Notes:

#	Load Name	Trip	Poles	A		B		C		Poles	Trip	Load Name	#
1	RACK SERVER ROOM 314	20 A	2	375	375					2	20 A	RACK SERVER ROOM 314	2
3						375	375						4
5	RACK SERVER ROOM 314	20 A	1					500	500	1	20 A	RACK SERVER ROOM 314	6
7	RACK SERVER ROOM 314	20 A	2	375	375					2	20 A	RACK SERVER ROOM 314	8
9						375	375						10
11	RACK SERVER ROOM 314	20 A	1					500	500	1	20 A	RACK SERVER ROOM 314	12
13	RACK SERVER ROOM 314	20 A	2	375	375					2	20 A	RACK SERVER ROOM 314	14
15						375	375						16
17	RACK SERVER ROOM 314	20 A	1					500	500	1	20 A	RACK SERVER ROOM 314	18
19	SPACE	--	--	0	0					--	--	SPACE	20
21	SPACE	--	--			0	0			--	--	SPACE	22
23	SPACE	--	--					0	0	--	--	SPACE	24
25	REC MCR 312	20 A	1	540	540					1	20 A	REC PCR 311 TV MONITORS	26
27	REC CCR 313	20 A	1			360	540			1	20 A	REC PCR 311	28
29	REC CCR 313	20 A	1					540	900	1	20 A	REC Room 311, 312	30
31	REC PCR 311	20 A	1	540	540					1	20 A	REC PCR 311	32
33	SPACE	--	--			0	360			1	20 A	REC PCR 311	34
35	SPACE	--	--					0	0	--	--	SPACE	36
37	SPACE	--	--	0	0								38
39	SPACE	--	--			0	0			3	30 A	SPD	40
41	SPACE	--	--					0	0				42
			Total Load:	4410 VA		3510 VA		4440 VA					
			Total Amps:	38 A		29 A		38 A					

Panel Totals	
Total Conn. Load:	12360 VA
Total Est. Demand:	12360 VA
Total Conn. Current:	34 A
Total Est. Demand Current:	34 A

Notes:

Branch Panel: LS3-TV3

Location: SERVER ROOM / MCR 314
Supply From: LS3-TV
Mounting: SURFACE
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 10KA
Mains Type: MCB
Bus Rating: 150 A
MCB Rating: 150 A

Notes:

#	Load Name	Trip	Poles	A		B		C		Poles	Trip	Load Name	#
1	RACK SERVER ROOM 314	20 A	2	375	375					2	20 A	RACK SERVER ROOM 314	2
3						375	375						4
5	RACK SERVER ROOM 314	20 A	1					500	500	1	20 A	RACK SERVER ROOM 314	6
7	RACK SERVER ROOM 314	20 A	2	375	375					2	20 A	RACK SERVER ROOM 314	8
9						375	375						10
11	RACK SERVER ROOM 314	20 A	1					500	500	1	20 A	RACK SERVER ROOM 314	12
13	RACK SERVER ROOM 314	20 A	2	375	375					2	20 A	RACK SERVER ROOM 314	14
15						375	375						16
17	RACK SERVER ROOM 314	20 A	1					500	500	1	20 A	RACK SERVER ROOM 314	18
19	SPARE	20 A	1	0	360					1	20 A	REC SERVER ROOM 314	20
21	SPARE	20 A	1			0	360			1	20 A	REC SERVER ROOM 314	22
23	SPARE	20 A	1					0	360	1	20 A	REC CORRIDOR 300B	24
25	SPACE	--	--	0	0					--	--	SPACE	26
27	SPACE	--	--			0	0			--	--	SPACE	28
29	SPACE	--	--					0	0	--	--	SPACE	30
31	SPACE	--	--	0	0					--	--	SPACE	32
33	SPACE	--	--			0	0			--	--	SPACE	34
35	SPACE	--	--					0	0	--	--	SPACE	36
37	SPACE	--	--	0	0								38
39	SPACE	--	--			0	0			3	30 A	SPD	40
41	SPACE	--	--					0	0				42
			Total Load:	2610 VA		2610 VA		3360 VA					
			Total Amps:	22 A		22 A		28 A					

Panel Totals	
Total Conn. Load:	8580 VA
Total Est. Demand:	8580 VA
Total Conn. Current:	24 A
Total Est. Demand Current:	24 A

Notes:

US Army Corps of Engineers ®

DATE | DESCRIPTION | MARK

DESIGNED BY: D. PAXTON
DRAWN BY: D. PAXTON
CHECKED BY: Y. SOLOMON
SUBMITTED BY:
ISSUE DATE: 01 MARCH 2023
SOLICITATION NO.: W912DS-19-R-0014
CONTRACT NO.: W912DS-19-C-0031-L
FILE NUMBER:
SIZE: ANSI 'D'
FILE NAME:

US ARMY CORPS OF ENGINEERS
LINCOLN HALL
WEST POINT, NEW YORK

JACOBS / EWING COLE A Joint Venture

BUILDINGS 605/607 RENOVATION - LINCOLN HALL

ELECTRICAL PANEL SCHEDULES

SHEET ID

E-711

REVISED RTA SUBMISSION 3/1/2023

Branch Panel: HB3-E

Location: ELECTRICAL B303 | **Volts:** 480/277 Wye | **A.I.C. Rating:** 22KA
Supply From: INV-1 | **Phases:** 3 | **Mains Type:** MCB
Mounting: SURFACE | **Wires:** 4 | **Bus Rating:** 100 A
Enclosure: Type 1 | **MCB Rating:** 100 A

Notes:

#	Load Name	Trip	Poles	A	B	C	Poles	Trip	Load Name	#
1				343	396					2
3	HB2-E	50 A	3			336	559			4
5							33	0		6
7				675	487					8
9	H1-E	50 A	3			598	543			10
11							66	0		12
13				390	372					14
15	H3-E	50 A	3			594	88			16
17							45	0		18
19	LTG B3 NORTH	20 A	1	397	0					20
21	LTG MECHANICAL XB301	20 A	1			84	0			22
23	LTG ELECTRICAL B303 ELEVATOR SHAFT	20 A	1				311	0		24
25	SPACE	--	--	0	0					26
27	SPACE	--	--			0	0			28
29	SPACE	--	--				0	0		30
31	SPACE	--	--	0	0					32
33	SPACE	--	--			0	0			34
35	SPACE	--	--				0	0		36
37	SPACE	--	--	0	0					38
39	SPACE	--	--			0	0			40
41	SPACE	--	--				0	0		42
			Total Load:	3060 VA	2801 VA	455 VA				
			Total Amps:	12 A	11 A	2 A				

Panel Totals	
Total Conn. Load:	6316 VA
Total Est. Demand:	6349 VA
Total Conn. Current:	8 A
Total Est. Demand Current:	8 A

Notes:

Branch Panel: HB2-E

Location: ELECTRICAL CLOSET B235 | **Volts:** 480/277 Wye | **A.I.C. Rating:** 22KA
Supply From: HB3-E | **Phases:** 3 | **Mains Type:** MCB
Mounting: SURFACE | **Wires:** 4 | **Bus Rating:** 50 A
Enclosure: Type 1 | **MCB Rating:** 50 A

Notes:

#	Load Name	Trip	Poles	A	B	C	Poles	Trip	Load Name	#
1	LTG RM B233, B238 & B2100B	20 A	1	343						2
3	LTG	20 A	1		336					4
5	EXTERIOR LIGHTING	20 A	1			33				6
7										8
9										10
11										12
			Total Load:	343 VA	336 VA	33 VA				
			Total Amps:	1 A	1 A	0 A				

Panel Totals	
Total Conn. Load:	712 VA
Total Est. Demand:	720 VA
Total Conn. Current:	1 A
Total Est. Demand Current:	1 A

Notes:

Branch Panel: HB1-E

Location: ELECTRICAL CLOSET B171 | **Volts:** 480/277 Wye | **A.I.C. Rating:** 22KA
Supply From: HB3-E | **Phases:** 3 | **Mains Type:** MCB
Mounting: SURFACE | **Wires:** 4 | **Bus Rating:** 50 A
Enclosure: Type 1 | **MCB Rating:** 50 A

Notes:

#	Load Name	Trip	Poles	A	B	C	Poles	Trip	Load Name	#
1	LTG Room B165, B164, B100B	20 A	1	396						2
3	LTG	20 A	1		559					4
5										6
7										8
9										10
11										12
			Total Load:	396 VA	559 VA	0 VA				
			Total Amps:	2 A	2 A	0 A				

Panel Totals	
Total Conn. Load:	955 VA
Total Est. Demand:	955 VA
Total Conn. Current:	1 A
Total Est. Demand Current:	1 A

Notes:

Branch Panel: H1-E

Location: ELECTRICAL CLOSET 181 | **Volts:** 480/277 Wye | **A.I.C. Rating:** 22KA
Supply From: HB3-E | **Phases:** 3 | **Mains Type:** MCB
Mounting: SURFACE | **Wires:** 4 | **Bus Rating:** 50 A
Enclosure: Type 1 | **MCB Rating:** 50 A

Notes:

#	Load Name	Trip	Poles	A	B	C	Poles	Trip	Load Name	#
1	LTG Room 100C, 172, XB1-106, 200B	20 A	1	675						2
3	LTG	20 A	1		598					4
5	EXTERIOR LIGHTING	20 A	1			66				6
7										8
9										10
11										12
			Total Load:	675 VA	598 VA	66 VA				
			Total Amps:	3 A	2 A	0 A				

Panel Totals	
Total Conn. Load:	1339 VA
Total Est. Demand:	1355 VA
Total Conn. Current:	2 A
Total Est. Demand Current:	2 A

Notes:

US Army Corps of Engineers ®

MARK	DESCRIPTION	DATE

DESIGNED BY: D. PAXTON
DRAWN BY: D. PAXTON
CHECKED BY: Y. SOLOMON
SUBMITTED BY:
ISSUE DATE: 01 MARCH 2023
SOLICITATION NO.: W912DS-19-R-0014
CONTRACT NO.: W912DS-19-C-0031-L
FILE NUMBER:
SIZE: ANSI 'D'
FILE NAME:

US ARMY CORPS OF ENGINEERS
LINCOLN HALL
WEST POINT, NEW YORK

JACOBS / EWING COLE *A Joint Venture*

BUILDINGS 605/607 RENOVATION - LINCOLN HALL

ELECTRICAL PANEL SCHEDULES

SHEET ID

E-712

REVISED RTA SUBMISSION 3/1/2023

Branch Panel: H2-E

Location: ELECTRICAL CLOSET 241
Supply From: HB3-E
Mounting: SURFACE
Enclosure: Type 1

Volts: 480/277 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 22KA
Mains Type: MCB
Bus Rating: 100 A
MCB Rating: 50 A

Notes:

#	Load Name	Trip	Poles	A	B	C	Poles	Trip	Load Name	#
1	LTG Room 235	20 A	1	487						2
3	LTG CENTRAL STAIR 201	20 A	1		543					4
5										6
7										8
9										10
11										12
		Total Load:		487 VA	543 VA	0 VA				
		Total Amps:		2 A	2 A	0 A				

Panel Totals	
Total Conn. Load:	1030 VA
Total Est. Demand:	1030 VA
Total Conn. Current:	1 A
Total Est. Demand Current:	1 A

Notes:

Branch Panel: H3-E

Location: ELECTRICAL CLOSET 361
Supply From: HB3-E
Mounting: SURFACE
Enclosure: Type 1

Volts: 480/277 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 22KA
Mains Type: MCB
Bus Rating: 100 A
MCB Rating: 50 A

Notes:

#	Load Name	Trip	Poles	A	B	C	Poles	Trip	Load Name	#
1	LTG Room 351, 300D	20 A	1	390						2
3	LTG CENTRAL STAIR 301	20 A	1		594					4
5	LTG TELEVISION STUDIO 317	20 A	1			45				6
7										8
9										10
11										12
		Total Load:		390 VA	594 VA	45 VA				
		Total Amps:		2 A	2 A	0 A				

Panel Totals	
Total Conn. Load:	1029 VA
Total Est. Demand:	1029 VA
Total Conn. Current:	1 A
Total Est. Demand Current:	1 A

Notes:

Branch Panel: H4-E

Location: ELECTRICAL CLOSET 421
Supply From: HB3-E
Mounting: SURFACE
Enclosure: Type 1

Volts: 480/277 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 22KA
Mains Type: MCB
Bus Rating: 100 A
MCB Rating: 50 A

Notes:

#	Load Name	Trip	Poles	A	B	C	Poles	Trip	Load Name	#
1	LTG Room 412, 400	20 A	1	372						2
3	LTG ROOF ACCESS R103, ELEV RM R101	20 A	1		88					4
5										6
7										8
9										10
11										12
		Total Load:		372 VA	88 VA	0 VA				
		Total Amps:		1 A	0 A	0 A				

Panel Totals	
Total Conn. Load:	460 VA
Total Est. Demand:	460 VA
Total Conn. Current:	1 A
Total Est. Demand Current:	1 A

Notes:

Branch Panel: HN-EL

Location: ELEV MACHINE RM R101
Supply From: MSB
Mounting: SURFACE
Enclosure: Type 1

Volts: 480Y/277V
Phases: 3
Wires: 4

A.I.C. Rating: 22KA
Mains Type: MCB
Bus Rating: 100 A
MCB Rating: 100 A

Notes:

#	Load Name	Trip	Poles	A	B	C	Poles	Trip	Load Name	#
1				11075						2
3	HVAC ELEVATOR 1 ROOF ELEV MACH RM R101	80 A	3		11075					4
5						11075				6
7										8
9										10
11										12
13										14
15										16
17										18
19										20
21										22
23										24
25										26
27										28
29										30
		Total Load:		11075 VA	11075 VA	11075 VA				
		Total Amps:		40 A	40 A	40 A				

Panel Totals	
Total Conn. Load:	33226 VA
Total Est. Demand:	33226 VA
Total Conn. Current:	40 A
Total Est. Demand Current:	40 A

Notes:

US Army Corps of Engineers ®

MARK	DESCRIPTION	DATE

DESIGNED BY: D. PAXTON
DRAWN BY: D. PAXTON
CHECKED BY: Y. SOLOMON
SUBMITTED BY:
SIZE: ANSI 'D'
FILE NAME:

ISSUE DATE: 01 MARCH 2023
SOLICITATION NO.: W912DS-19-R-0014
CONTRACT NO.: W912DS-19-C-0031-L
FILE NUMBER:

US ARMY CORPS OF ENGINEERS
LINCOLN HALL
WEST POINT, NEW YORK

JACOBS / EWING COLE *A Joint Venture*

BUILDINGS 605/607 RENOVATION - LINCOLN HALL

ELECTRICAL PANEL SCHEDULES

SHEET ID

E-713

REVISED RTA SUBMISSION 3/1/2023

Branch Panel: LSB1-FP

Location: AD LAW CORRIDOR B110
Supply From: LSB1-2
Mounting: SURFACE
Enclosure: Type 1

Volts: 208/120 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 10KA
Mains Type: MCB
Bus Rating: 100 A
MCB Rating: 50 A

Notes:

#	Load Name	Trip	Poles	A		B		C		Poles	Trip	Load Name	#
1	NAC PANEL FIRE PROTECTION B106	20 A	1	600	600					1	20 A	FMCU PANEL FIRE PROTECTION B106	2
3	NAC PANEL FIRE PROTECTION B106	20 A	1			600	600			1	20 A	RAT PANEL FIRE PROTECTION B106	4
5	SPARE	20 A	1					0	600	1	20 A	MNS PANEL FIRE PROTECTION B106	6
7	SPARE	20 A	1	0	0					--	--	SPACE	8
9	SPARE	20 A	1			0	0			--	--	SPACE	10
11	SPACE	--	--					0	0	--	--	SPACE	12
13	SPACE	--	--	0	0								14
15	SPACE	--	--			0	0			3	30 A	SPD	16
17	SPACE	--	--					0	0				18
			Total Load:	1200 VA		1200 VA		600 VA					
			Total Amps:	11 A		11 A		5 A					

Panel Totals	
Total Conn. Load:	3000 VA
Total Est. Demand:	3000 VA
Total Conn. Current:	8 A
Total Est. Demand Current:	8 A

Notes:

REVISED RTA SUBMISSION 3/1/2023

US Army Corps of Engineers ®

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SOLICITATION NO.: W912DS-19-R-0014
CONTRACT NO.: W912DS-19-C-0031-L
FILE NUMBER:
SIZE: ANSI D
FILE NAME:

US ARMY CORPS OF ENGINEERS
LINCOLN HALL
WEST POINT, NEW YORK

JACOBS / EWING COLE *A Joint Venture*

BUILDINGS 605/607 RENOVATION - LINCOLN HALL

ELECTRICAL PANEL SCHEDULES

SHEET ID

E-714

SYMBOLS

TELEPHONE AND DATA COMMUNICATIONS

- TELEPHONE TERMINAL BOARD (TB)
- TELEPHONE TERMINAL CABINET (TC)
- EQUIPMENT CABINET
- TWO POST RELAY RACK
- TELEPHONE WALL OUTLET
- DATA WALL OUTLET
  BAS = BUILDING AUTOMATION SYSTEM
  WAP = WIRELESS ACCESS POINT
  AV = AUDIO VISUAL OUTLET
  TV = AUDIO VISUAL BEHIND MONITOR
  F = FIBER OPTIC CABLE/JACK
  DS = DIGITAL DISPLAY
  +72" = MOUNTING HEIGHT OF OUTLET
- COMBINATION TELEPHONE AND DATA WALL OUTLET
  M= MODULAR OR SYSTEM FURNITURE OUTLET
- TELEPHONE OUTLET IN COMMON FLOOR BOX WITH ELECTRICAL OUTLET
- DATA OUTLET IN COMMON FLOOR BOX WITH ELECTRICAL OUTLET
- COMBINATION TELEPHONE AND DATA OUTLET IN COMMON FLOOR BOX WITH ELECTRICAL OUTLET
- TELEPHONE CEILING OUTLET
- CEILING OR SURFACE MOUNTED GFCI WAP DEVICE
- COMBINATION TELEPHONE AND DATA CEILING OUTLET
- WALL MOUNTED JUNCTION BOX WITH FLEXIBLE WHIP TO FURNITURE BASE TELECOM FEED, MOUNT AT 18-INCHES ABOVE FINISHED FLOOR
- FLOOR BOX FEED WITH FLEXIBLE WHIP TO FURNITURE BASE TELECOM FEED
- TELECOM POLE FEED WITH FLEXIBLE WHIP TO FURNITURE BASE POWER FEED
- TELECOM/POWER POKE THRU
  POS = POINT OF SALE
- PRIMARY BONDING BUSBAR (PBB); SECONDARY BONDING BUSBAR (SBB)
- PET — BUILDING ENTRANCE PROTECTION BLOCKS
- BBV — 110 BLOCKS
- CP — CONSOLIDATION POINT
- BASKET CABLE TRAY
- LADDER CABLE TRAY

MISCELLANEOUS SYSTEMS

- MIC — MICROPHONE OUTLET CEILING
- MIC — MICROPHONE OUTLET FLOOR
- MIC — MICROPHONE OUTLET WALL
- PA — PUBLIC ADDRESS PUSHBUTTON
- V — VOLUME CONTROL AND CHANNEL SELECTOR
- CEILING MOUNTED SPEAKER
  S=SOUND MASKING
- WALL MOUNTED SPEAKER
- WIRELESS DIGITAL SINGLE FACE CLOCK, 2 = WIRELESS DIGITAL DOUBLE FACE
- MASTER CLOCK — WIRELESS MASTER CLOCK
- TV — TELEVISION OUTLET
- AMP — AMPLIFIER
- DAS — CELLULAR DISTRIBUTION SYSTEM
- ECS — EMERGENCY RADIO COMMUNICATION SYSTEM
- BFPP — BACKBONE FIBER PATCH PANEL WITH SPLICE CASSETTE MODULES
- BVPP — BACKBONE VOICE COPPER PATCH PANEL (2U, CAT 6, 48 PORT UNLOADED)
- HVPP — HORIZONTAL VOICE COPPER PATCH PANEL (2U, CAT 6, 48 PORT UNLOADED)
- HDPP — HORIZONTAL DATA COPPER PATCH PANEL (2U, CAT 6, 48 PORT UNLOADED)
- HWPP — HORIZONTAL WIRELESS COPPER PATCH PANEL (2U, CAT 6A, 48 PORT UNLOADED)

ACCESS CONTROL & INTRUSION DETECTION

- CCTV CAMERA, FIXED
  W = WALL MOUNTED
  P = PENDANT MOUNTED
- CCTV CAMERA, PAN-TILT-ZOOM
- CARD READER
- CARD READER WITH KEYPAD
- KEYPAD
- ML — ELECTROMAGNETIC LOCKING DEVICE
- EL — ELECTRIFIED LOCK SET
- DS — DOOR STRIKE
- BREAK GLASS SENSOR
- 360° PASSIVE INFRARED/MICROWAVE SENSOR
- PASSIVE INFRARED/MICROWAVE SENSOR
- BALANCED MAGNETIC SWITCH
- REQUEST TO EXIT PUSH BUTTON
- REQUEST TO EXIT PASSIVE INFRARED SENSOR
- SEISMIC SENSOR
- AUDIO SENSOR DEVICE
- P — DURESS PANIC SWITCH
- INTERCOM:
  M = MASTER STATION
  R = REMOTE STATION
- VIDEO INTERCOM (MASTER)
- VIDEO INTERCOM (REMOTE)
- CCTV MONITOR
- SIREN
- AREA NOTIFICATION EQUIPMENT
- CELLULAR TRANSMITTER
- POWER SUPPLY
- SP — SECURITY PANEL
- CBE — CELL BOOSTER ENCLOSURE
- ENC — SECURITY ENCLOSURE
- BWS — BADGING WORKSTATION
- AWS — ALARM MONITORING WORKSTATION
- ACS — ACCESS CONTROL SYSTEM PANEL
- IDS — INTRUSION DETECTION SYSTEM PANEL

SITE

- MH — EXISTING MAINTENANCE HOLE (MH)
- C — NEW MAINTENANCE HOLE (CMH) OR NEW HANDHOLE (CHH)
- CU — COMMUNICATIONS DUCTBANK
- CU_x — EXISTING COMMUNICATIONS DUCTBANK
- C — COMMUNICATIONS OVERHEAD LINE
- C_x — EXISTING COMMUNICATIONS OVERHEAD LINE

ABBREVIATIONS

ACEG	ALTERNATING CURRENT ELECTRICAL GROUND
ACS	ACCESS CONTROL SYSTEM
AFC	ABOVE FINISHED CEILING
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
ANN	ANNUNCIATOR
ARCH	ARCHITECTURAL
AV	AUDIO AND VISUAL
BAS	BUILDING AUTOMATION SYSTEM
BATT	BATTERY
BB	BACKBONE
BFPP	BACKBONE FIBER PATCH PANEL
BBV	BACKBONE VOICE
BEPB	BUILDING ENTRANCE PROTECTION BLOCKS
BLDG	BUILDING
BMS	BALANCED MAGNETIC SWITCH
C	CONDUIT
CAB	CABINET
CAT	CATEGORY
CCTV	CLOSED CIRCUIT TELEVISION
CFCI	CONTRACTOR FURNISHED CONTRACTOR INSTALLED
CLG	CEILING
CMH	COMMUNICATIONS MAINTENANCE HOLE
CMP	COMMUNICATIONS PLENUM
COB	CENTER OF BOX
COMM	COMMUNICATIONS
CONST	CONSTRUCTION
CONT	CONTINUATION
CRAH	COMPUTER ROOM AIR HANDLER
DAS	DISTRIBUTED ANTENNA SYSTEM
DIST	DISTRIBUTION
DWG	DRAWING
EF	ENTRANCE FACILITY
EL	ELEVATION
ELEC	ELECTRICAL
ELEV	ELEVATOR
EMER	EMERGENCY
EQPT	EQUIPMENT
EXIST	EXISTING
FA	FIRE ALARM
FACP	FIRE ALARM CONTROL PANEL
FIXT	FIXTURE
FLR	FLOOR
FO	FIBER OPTIC
HCPP	HORIZONTAL COPPER PATCH PANEL
HFPP	HORIZONTAL FIBER PATCH PANEL
HOV	HORIZONTAL VOICE
HVPP	HORIZONTAL VOICE PATCH PANEL
IDS	INTRUSION DETECTION SYSTEM
JB	JUNCTION BOX
MFR	MANUFACTURER
MH	MOUNTING HEIGHT
MMF	MULTI MODE FIBER
MTD	MOUNTED
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE
OH	OVERHEAD
OFNP	OPTICAL FIBER PLENUM
OSP	OUTSIDE PLANT
PA	PUBLIC ADDRESS
PB	PULL BOX
PBB	PRIMARY BONDING BUSBAR
PBX	PRIVATE BRANCH EXCHANGE
PC	PERSONAL COMPUTER
PLAS	PLASTIC
POS	POINT OF SALE
PP	PATCH PANEL
PR	PAIR
PWR	POWER
QTY	QUANTITY
RBB	RACK BONDING BUSBAR
RBC	RACK BONDING CONDUCTOR
RECP	RECEPTACLE
REQD	REQUIRED
RGS	RIGID GALVANIZED STEEL
RM	ROOM
RSC	RIGID STEEL CONDUIT
SBB	SECONDARY BONDING BUSBAR
SCRT	SECURITY
SECT	SECTION
SPEC	SPECIFICATION
SMF	SINGLE MODE FIBER
SP	SERVICE PROVIDER
SURF	SURFACE
SW	SWITCH
SYM	SYMMETRICAL
SYS	SYSTEMS
TBB	TELECOMMUNICATIONS BONDING BACKBONE
TBC	TELECOMMUNICATIONS BONDING CONDUCTOR
TEBC	TELECOMMUNICATIONS EQUIPMENT BONDING CONDUCTOR
TEL	TELEPHONE
TELCOM	TELECOMMUNICATIONS
TER	TELECOMMUNICATIONS EQUIPMENT ROOM
TR	TELECOMMUNICATIONS ROOM
TYP	TYPICAL
UG	UNDERGROUND
UON	UNLESS OTHERWISE NOTED
UPS	UNINTERRUPTIBLE POWER SUPPLY
WP	WEATHERPROOF
XFR	TRANSFER
XP	EXPLOSION PROOF

GENERAL NOTES

1. ALL SYMBOLS, ABBREVIATIONS AND GENERAL NOTES SHOWN ARE NOT NECESSARILY USED ON THIS PROJECT.
2. REFER TO ONE-LINE DIAGRAMS FOR CABLE SIZES, CONDUIT SIZES, AND DEVICES NOT SHOWN ON PLANS.
3. MOUNTING HEIGHTS FOR CEILING MOUNTED DEVICES ARE TO THE BOTTOM OF THE DEVICE, UNLESS OTHERWISE NOTED.
4. MOUNTING HEIGHTS ABOVE FINISHED FLOOR, TO CENTERLINE OF DEVICE, ARE AS FOLLOWS, UNLESS OTHERWISE NOTED:

TELEPHONE OUTLETS	18-INCHES
DATA OUTLETS WALL AND PUBLIC	18-INCHES
TELEPHONE OUTLETS	48-INCHES
COUNTER TOP OUTLETS (CT)	8 INCHES ABOVE COUNTER
WIRELESS ACCESS POINT	6-INCHES ABOVE FINISHED CEILING
CAMERAS	96-INCHES
HORN SPEAKERS	AS INDICATED
TELEVISION OUTLET (TV)	60-INCHES
CARD READER BACK BOX	42-INCHES
SPEAKER VOLUME CONTROL	42-INCHES

5. ALL EXPOSED CABLES IN THE TELECOM EQUIPMENT ROOM (TER) AND TELECOM ROOMS (TR) MUST BE INSTALLED INSIDE POLYETHYLENE TEREPHTHALATE (PET) EXPANDABLE BRAIDED SLEEVING TO PROVIDE A PROFESSIONAL LOOK ON FINISHED PRODUCT. PROVIDE YELLOW COLORED SLEEVING FOR DATA CABLING AND GREEN COLORED SLEEVING FOR VOICE CABLES.
6. SUPPLY FACTORY TERMINATED FIBER OPTIC AND CAT 6 PATCH CORDS FOR EACH VOICE, AND DATA PORTS AND CAT 6A FOR WIRELESS PORTS AT THE TELECOM EQUIPMENT ROOM (TER) AND TELECOM ROOMS (TR) ON EACH FLOOR FOR A COMPLETE AND WORKING TURNKEY COMMUNICATIONS SYSTEM. LENGTH OF PATCH CORDS TO BE DETERMINED BY USMA/NEC PROJECT MANAGER. PROVIDE 100 EACH 5 FEET AND 100 EACH 7 FEET GREEN JACKET CAT 6 PATCH CORDS FOR THE OUTSIDE PLANT (OSP) COPPER CABLE CROSS CONNECTION IN THE TELECOM ROOMS.
7. THE FOLLOWING COLOR CODED MUST BE USED FOR HORIZONTAL WIRING:
   - YELLOW (JACKET, JACKS, PATCH CORDS) FOR NIPR DATA.
   - BLUE (JACKET, JACKS, PATCH CORDS) FOR WREN DATA
   - GREEN (JACKET, JACKS, PATCH CORDS) FOR VOICE.
   - ORANGE (JACKET, JACKS, PATCH CORDS) FOR WIRELESS.
   - WHITE (JACKET, JACKS, PATCH CORDS) FOR CCTV, EMCS, CARD READER.

DEMOLITION NOTES

1. COORDINATE AND REMOVE ALL DAS SYSTEM AMPLIFIERS, ANTENNAS, SPLITTERS, REPEATERS, HUBS, AND RACK MOUNTED EQUIPMENT WITH MR. GARY ALBAUGH, WP STAFF CIO/G6. REMOVE ALL DEVICES, PROVIDE COMPLETE INVENTORY AND STORE IN LOCATION PROVIDED BY CIO/G6.
2. COORDINATE AND REMOVE ALL NETWORK SWITCHES PRIOR TO BUILDING DEMOLITION WITH MR. CANH NGO, NETWORK ENTERPRISE CENTER (NEC). REMOVE ALL SWITCHES, PROVIDE COMPLETE INVENTORY AND STORE IN LOCATION PROVIDED BY NEC.
3. REMOVE (43) CISCO AIRONET 3600 SERIES EXISTING WIRELESS ACCESS POINTS (WAPS) PRIOR TO BUILDING DEMOLITION AND TURN OVER TO MR. GARY ALBAUGH, WP STAFF CIO/G6. CONTRACTOR WILL REINSTALL WAPS IN NEW LOCATIONS UPON BUILDING COMPLETION. REMOVE ALL EXISTING MOUNTING HARDWARE AND RESINSTALL HARDWARE WITH THE WAPS.

US Army Corps of Engineers ®

MARK	DESCRIPTION	DATE

DESIGNED BY:	S. MAHABERRY
DRAWN BY:	C. TINKER
CHECKED BY:	J. HEITZ
SUBMITTED BY:	
ISSUE DATE:	01 MARCH 2023
SOLICITATION NO.:	W912DS-18-R-0014
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US ARMY CORPS OF ENGINEERS
LINCOLN HALL
WEST POINT, NEW YORK

JACOBS / EWING COLE A Joint Venture

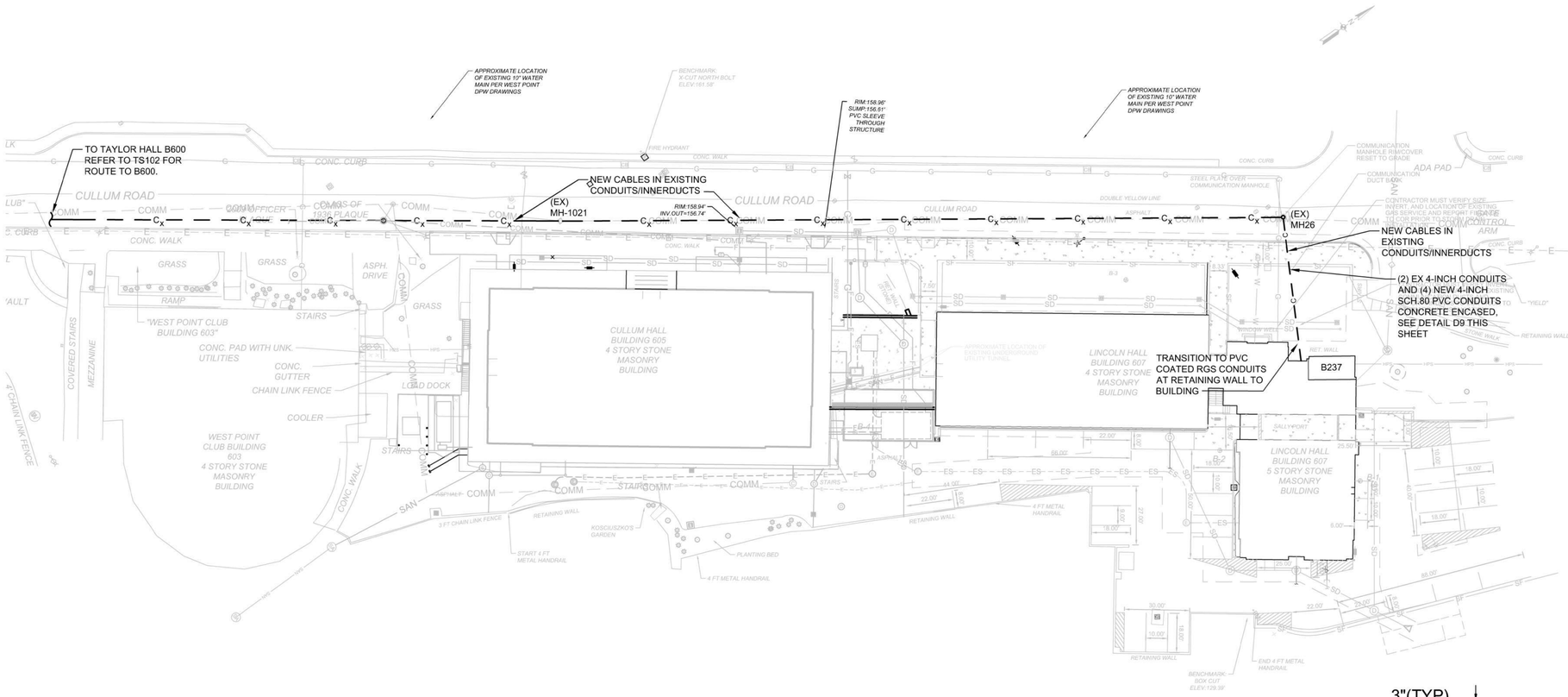
BUILDINGS 605/607 RENOVATION - LINCOLN HALL

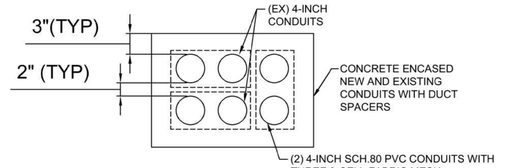
SYMBOLS, ABBREVIATIONS AND GENERAL NOTES

SHEET ID

T-001

REVISED RTA SUBMISSION 3/1/2023





B9 6-WAY CONCRETE ENCASED DUCTBANK
SCALE: NOT TO SCALE

A1 SITE PLAN
SCALE: 1"=30'

0 30' 60'

US Army Corps of Engineers®

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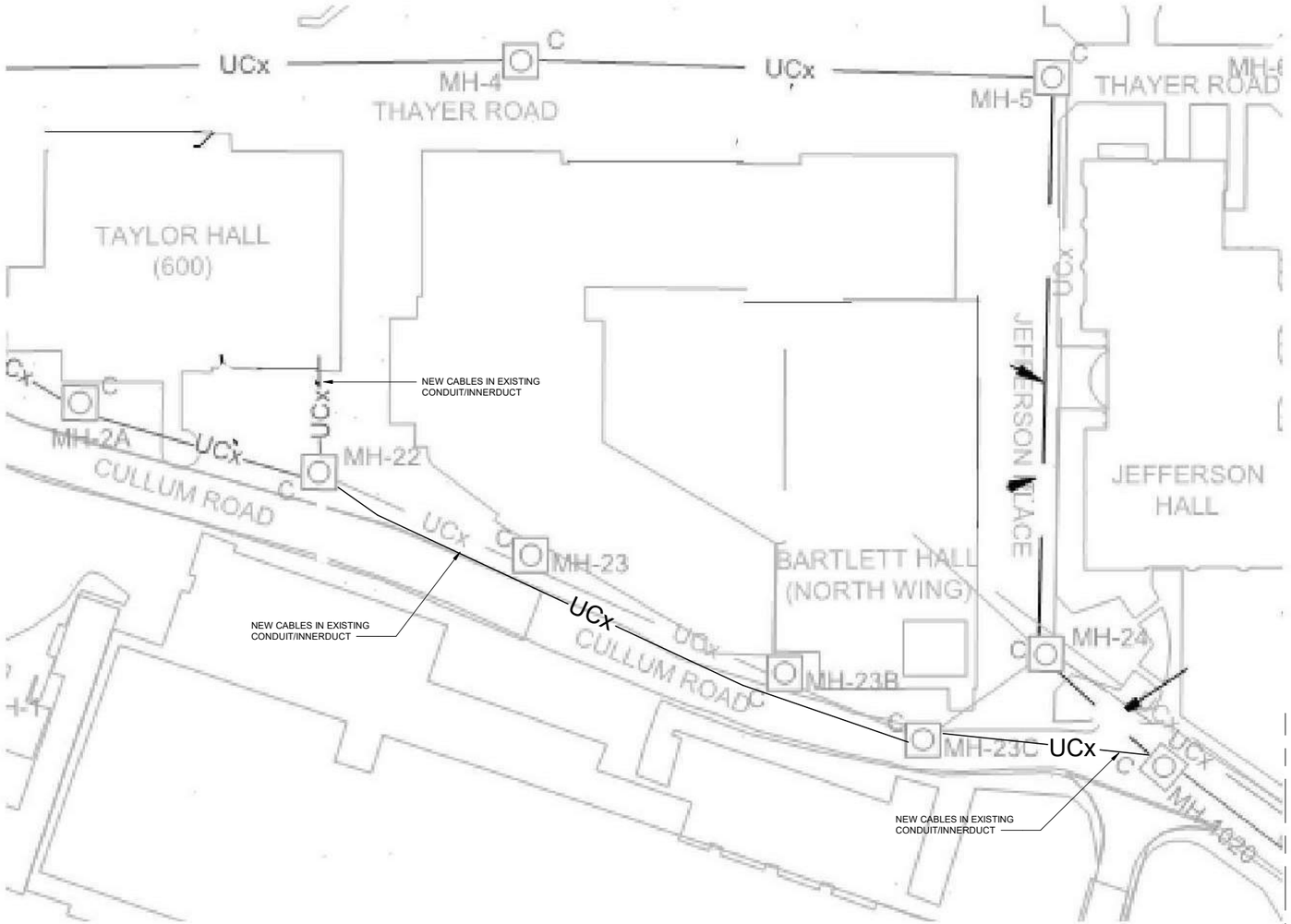
BUILDINGS 605/607 RENOVATION - LINCOLN HALL

TELECOM
SITE PLAN

SHEET ID

TS101

REVISED RTA SUBMISSION 3/1/2023



A1 PARTIALTELECOM SITE PLAN
NOT TO SCALE

GENERAL NOTES

1. SEE T-600 FOR CABLING REQUIREMENTS.

US Army Corps of Engineers ®

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JACOBS / EWING COLE *A Joint Venture*

BUILDINGS 605/607 RENOVATION - LINCOLN HALL

PARTIAL TELECOM SITE PLAN

SHEET ID

TS102

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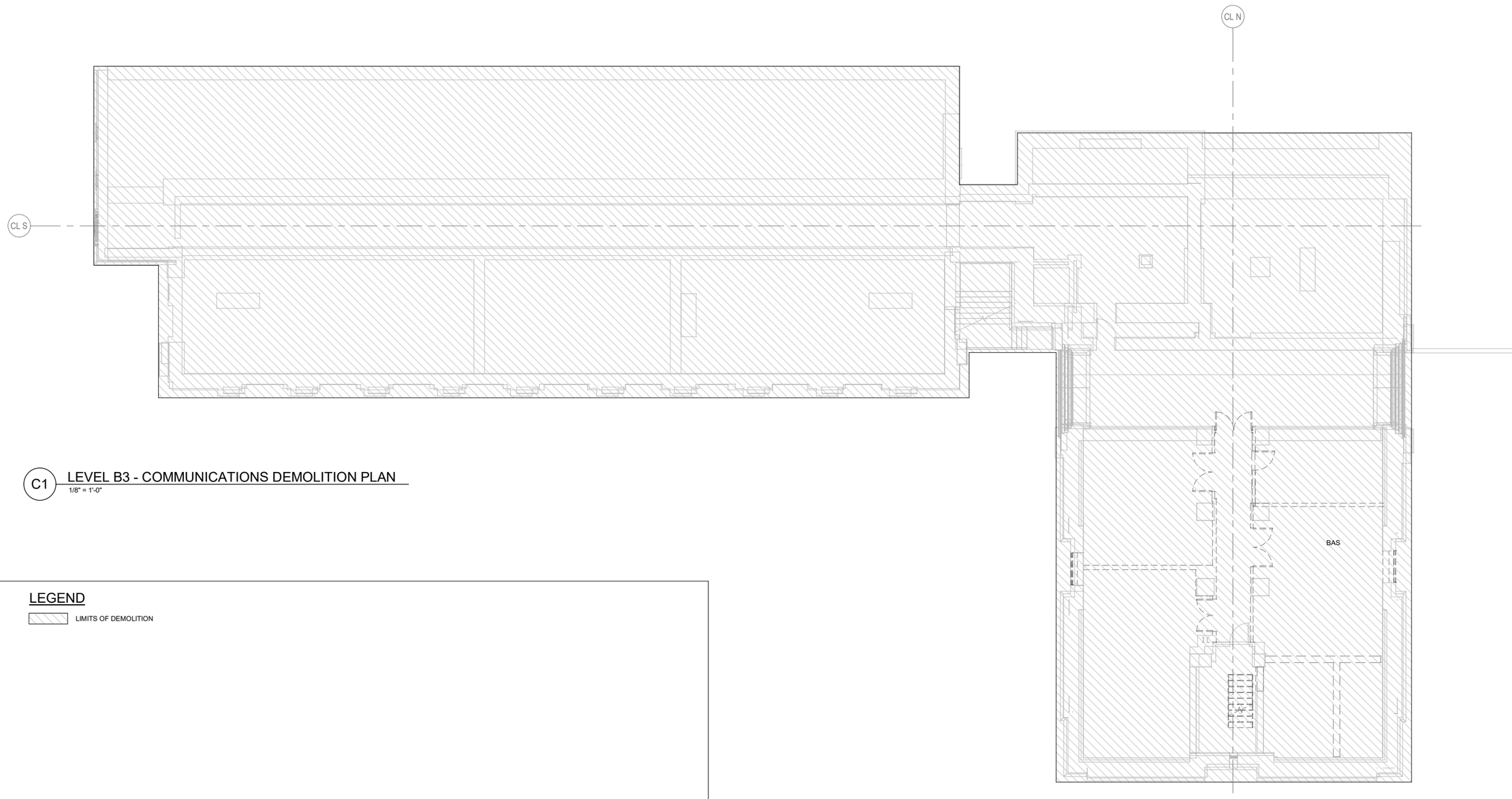

C1 LEVEL B3 - COMMUNICATIONS DEMOLITION PLAN
1/8" = 1'-0"

LEGEND

LIMITS OF DEMOLITION

DEMOLITION NOTES

1 REMOVE ALL COMMUNICATIONS AND SECURITY DEVICES INCLUDING BUT NOT LIMITED TO CABINETS, RACKS, OUTLETS AND CABLING BACK TO IT'S SOURCE.

2 INVENTORY, REMOVE AND STORE ALL DAS SYSTEM AMPLIFIERS, ANTENNAS, SPLITTERS, REPEATERS, HUBS AND RACK MOUNTED EQUIPMENT AS DIRECTED BY WEST POINT CIO/G6 GARY ALBAUGH. REMOVE ALL CABLING ASSOCIATED WITH THE DAS SYSTEM BACK TO IT'S SOURCE.

3 INVENTORY, REMOVE AND STORE ALL WIRELESS ACCESS POINT (WAP) ELECTRONIC EQUIPMENT AS DIRECTED BY WEST POINT CIO/G6 GARY ALBAUGH. WAPS MUST BE RE-INSTALLED BY THE CONTRACTOR PRIOR TO BUILDING TURN OVER. PROVIDE MOUNTING HARDWARE AND CAT 6A PATCH CORDS AS NEEDED TO COMPLETE THE INSTALLATION.

4 INVENTORY, REMOVE AND STORE ALL EXISTING NETWORK SWITCHES AND ELECTRONIC EQUIPMENT AS DIRECTED BY USMA NETWORK ENTERPRISE CENTER (NEC) MR. CANH NGO.

0 4' 8' 16'
SCALE: 1/8"=1'-0"

N

US Army Corps of Engineers ®

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LINCOLN HALL
WEST POINT, NEW YORK

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BUILDINGS 605/607 RENOVATION - LINCOLN HALL

LEVEL B3 COMMUNICATION DEMOLITION PLAN

SHEET ID

TD101

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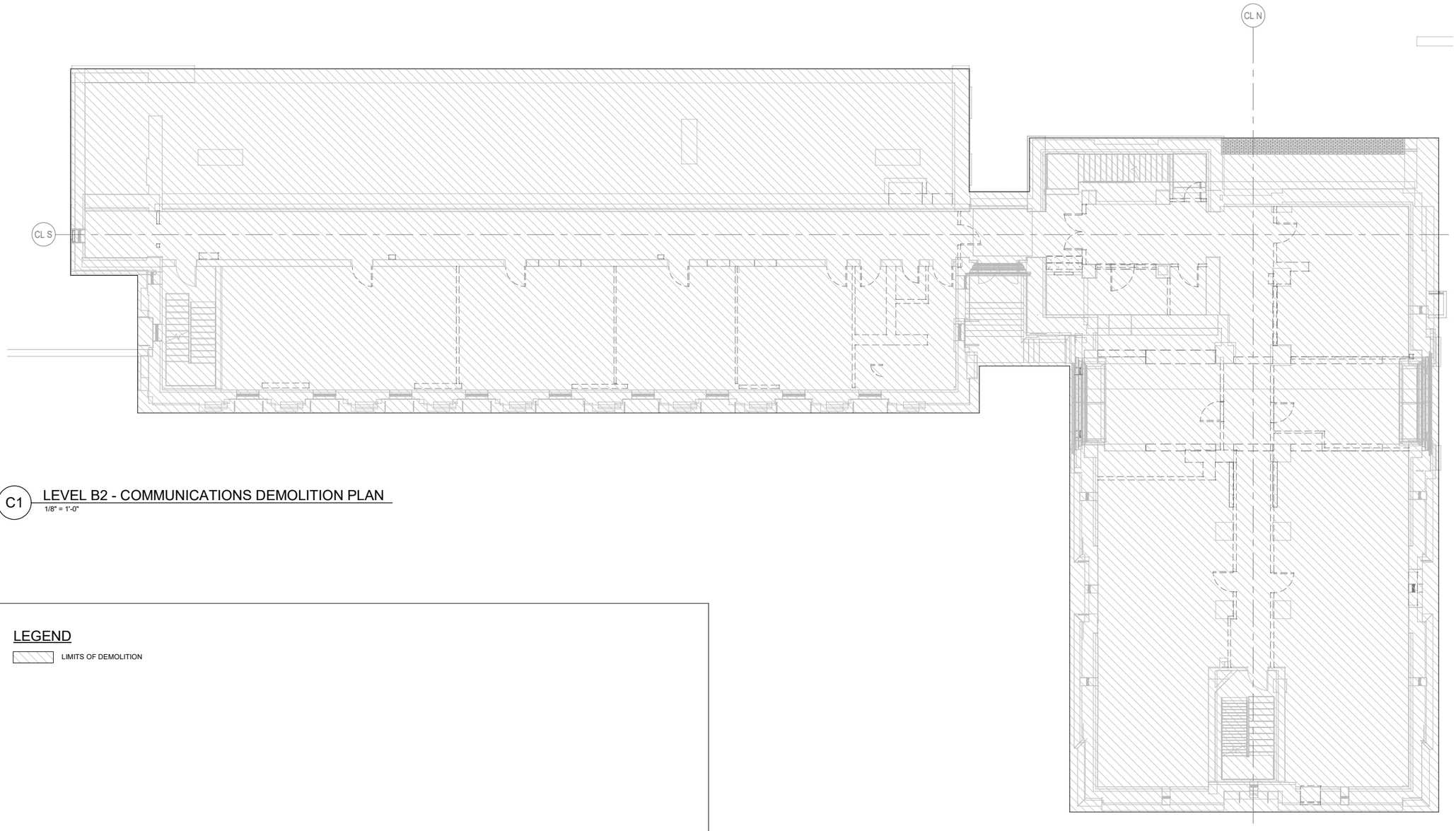

C1 LEVEL B2 - COMMUNICATIONS DEMOLITION PLAN
1/8" = 1'-0"

LEGEND

LIMITS OF DEMOLITION

DEMOLITION NOTES

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

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US Army Corps of Engineers ®

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LINCOLN HALL
WEST POINT, NEW YORK

JACOBS / EWING COLE A Joint Venture

BUILDINGS 605/607 RENOVATION - LINCOLN HALL

LEVEL B2 COMMUNICATIONS DEMOLITION PLAN

SHEET ID

TD102

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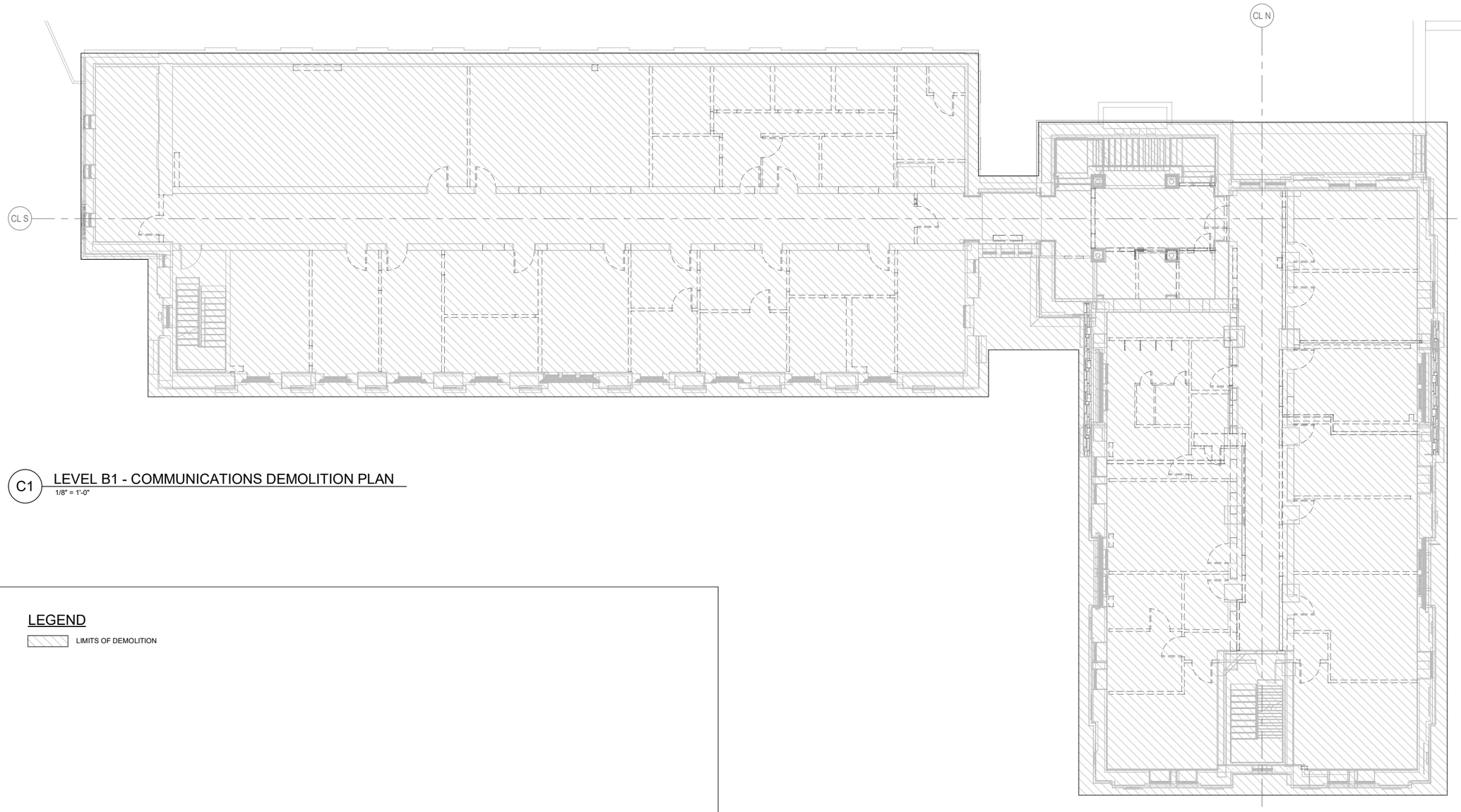

C1 LEVEL B1 - COMMUNICATIONS DEMOLITION PLAN
1/8" = 1'-0"

LEGEND

LIMITS OF DEMOLITION

DEMOLITION NOTES

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BUILDINGS 605/607 RENOVATION - LINCOLN HALL

LEVEL B1 COMMUNICATIONS DEMOLITION PLAN

SHEET ID
TD103

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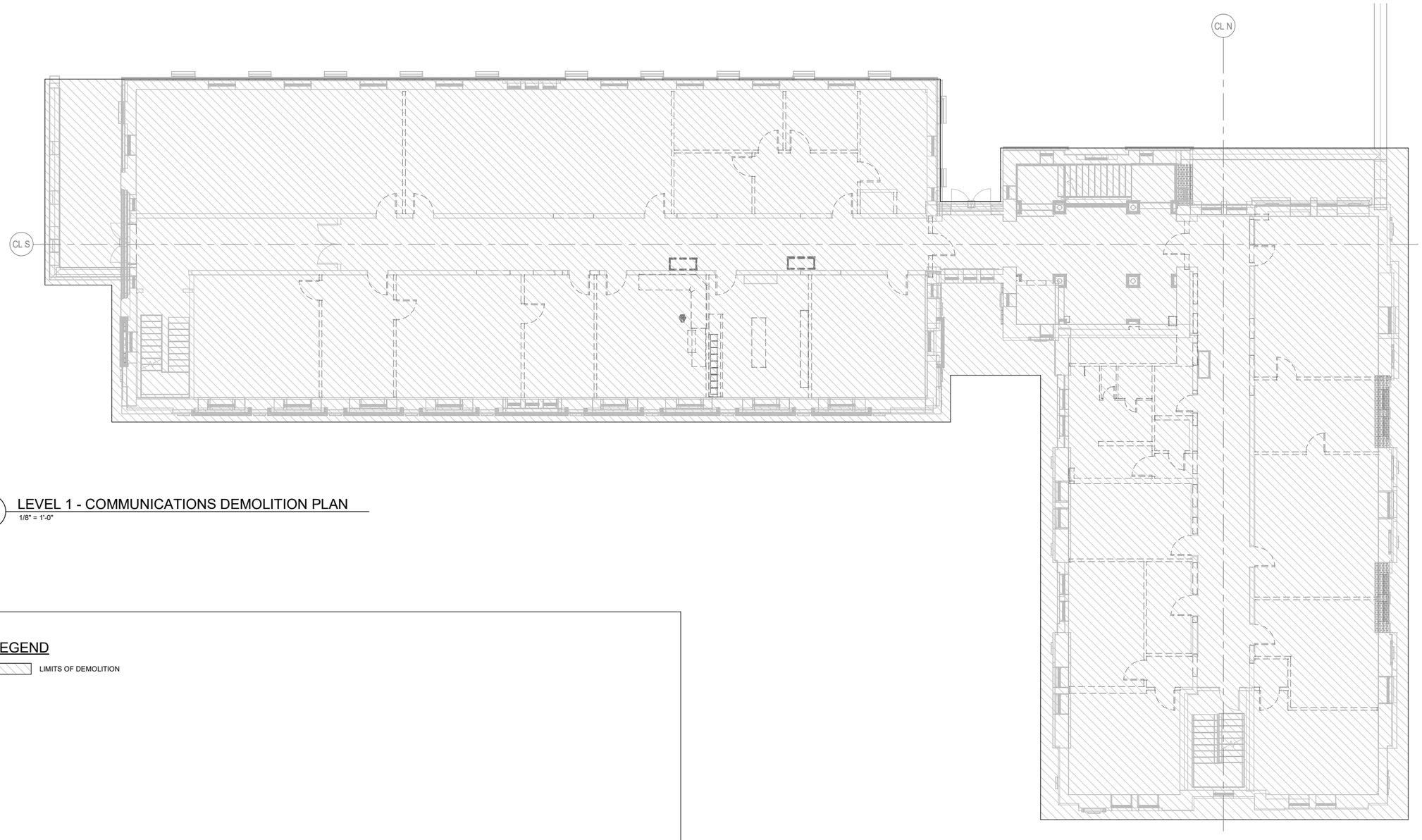

C1 LEVEL 1 - COMMUNICATIONS DEMOLITION PLAN
1/8" = 1'-0"

LEGEND

LIMITS OF DEMOLITION

DEMOLITION NOTES

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LINCOLN HALL
WEST POINT, NEW YORK

JACOBS / EWING COLE A Joint Venture

BUILDINGS 605/607 RENOVATION - LINCOLN HALL

LEVEL 1 - COMMUNICATIONS DEMOLITION PLAN

SHEET ID
TD104

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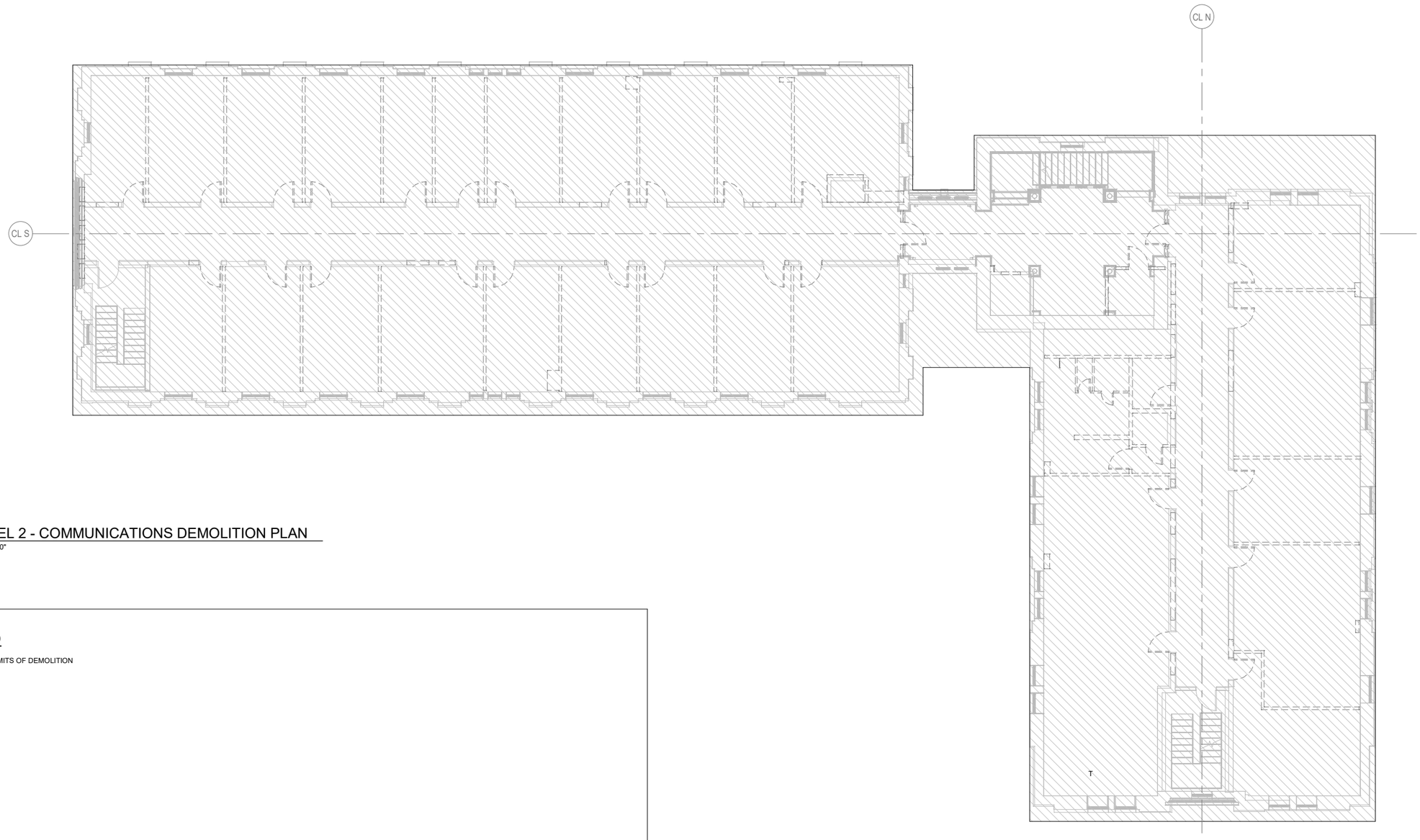


C1 LEVEL 2 - COMMUNICATIONS DEMOLITION PLAN
1/8" = 1'-0"

LEGEND

LIMITS OF DEMOLITION

DEMOLITION NOTES

1 REMOVE ALL COMMUNICATIONS AND SECURITY DEVICES INCLUDING BUT NOT LIMITED TO CABINETS, RACKS, OUTLETS AND CABLING BACK TO IT'S SOURCE.

2 INVENTORY, REMOVE AND STORE ALL DAS SYSTEM AMPLIFIERS, ANTENNAS, SPLITTERS, REPEATERS, HUBS AND RACK MOUNTED EQUIPMENT AS DIRECTED BY WEST POINT CIO/G6 GARY ALBAUGH. REMOVE ALL CABLING ASSOCIATED WITH THE DAS SYSTEM BACK TO IT'S SOURCE.

3 INVENTORY, REMOVE AND STORE ALL WIRELESS ACCESS POINT (WAP) ELECTRONIC EQUIPMENT AS DIRECTED BY WEST POINT CIO/G6 GARY ALBAUGH. WAPS MUST BE RE-INSTALLED BY THE CONTRACTOR PRIOR TO BUILDING TURN OVER. PROVIDE MOUNTING HARDWARE AND CAT 6A PATCH CORDS AS NEEDED TO COMPLETE THE INSTALLATION.

4 INVENTORY, REMOVE AND STORE ALL EXISTING NETWORK SWITCHES AND ELECTRONIC EQUIPMENT AS DIRECTED BY USMA NETWORK ENTERPRISE CENTER (NEC) MR. CANH NGO.

0 4' 8' 16'
SCALE: 1/8"=1'-0"

N

US Army Corps of Engineers ®

MARK	DESCRIPTION	DATE

ISSUE DATE:
01 MARCH 2023
SOLICITATION NO.:
W912DS-18-R-0014
CONTRACT NO.:
W912DS-19-C-0031-L
FILE NUMBER:

DESIGNED BY:
S. HAMED
DRAWN BY:
C. TINKER
CHECKED BY:
J. HEITZ
SUBMITTED BY:
SIZE:
ANSI 'D'
FILE NAME:

US ARMY CORPS OF ENGINEERS
LINCOLN HALL
WEST POINT, NEW YORK

JACOBS / EWING COLE A Joint Venture

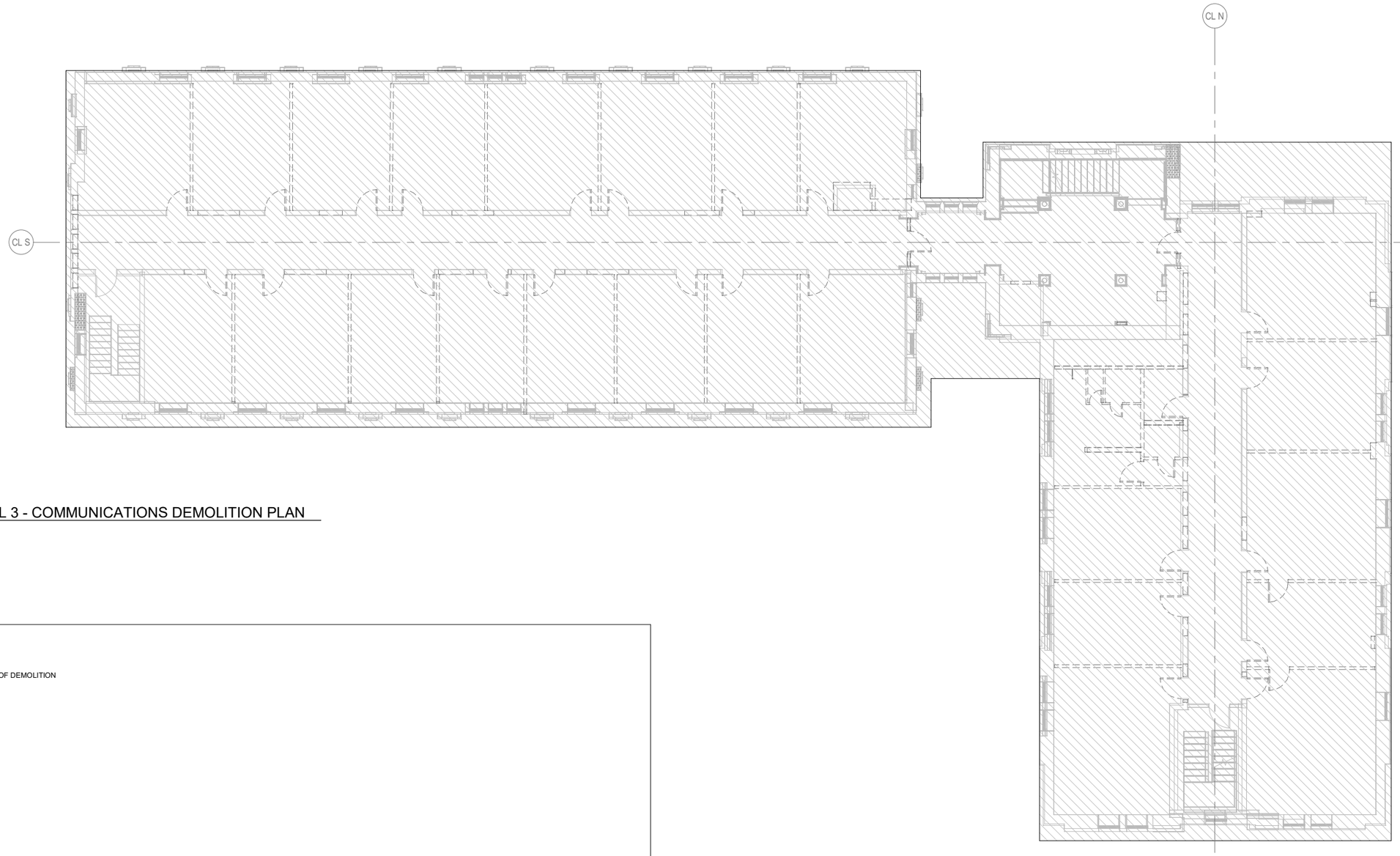
BUILDINGS 605/607 RENOVATION - LINCOLN HALL

LEVEL 2 - COMMUNICATIONS DEMOLITION PLAN

SHEET ID

TD105

REVISED RTA SUBMISSION 3/1/2023



C1 LEVEL 3 - COMMUNICATIONS DEMOLITION PLAN
1/8" = 1'-0"

LEGEND

LIMITS OF DEMOLITION

DEMOLITION NOTES

1 REMOVE ALL COMMUNICATIONS AND SECURITY DEVICES INCLUDING BUT NOT LIMITED TO CABINETS, RACKS, OUTLETS AND CABLING BACK TO IT'S SOURCE.

2 INVENTORY, REMOVE AND STORE ALL DAS SYSTEM AMPLIFIERS, ANTENNAS, SPLITTERS, REPEATERS, HUBS AND RACK MOUNTED EQUIPMENT AS DIRECTED BY WEST POINT CIO/G6 GARY ALBAUGH. REMOVE ALL CABLING ASSOCIATED WITH THE DAS SYSTEM BACK TO IT'S SOURCE.

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4 INVENTORY, REMOVE AND STORE ALL EXISTING NETWORK SWITCHES AND ELECTRONIC EQUIPMENT AS DIRECTED BY USMA NETWORK ENTERPRISE CENTER (NEC) MR. CANH NGO.

0 4' 8' 16'
SCALE: 1/8"=1'-0"

N

US Army Corps of Engineers ®

MARK	DESCRIPTION	DATE

DESIGNED BY: S. MANSBERRY
DRAWN BY: C. TINKER
CHECKED BY: J. HEITZ
SUBMITTED BY:
ISSUE DATE: 01 MARCH 2023
SOLICITATION NO.: W912DS-18-R-0014
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US ARMY CORPS OF ENGINEERS
LINCOLN HALL
WEST POINT, NEW YORK

JACOBS / EWING COLE A Joint Venture

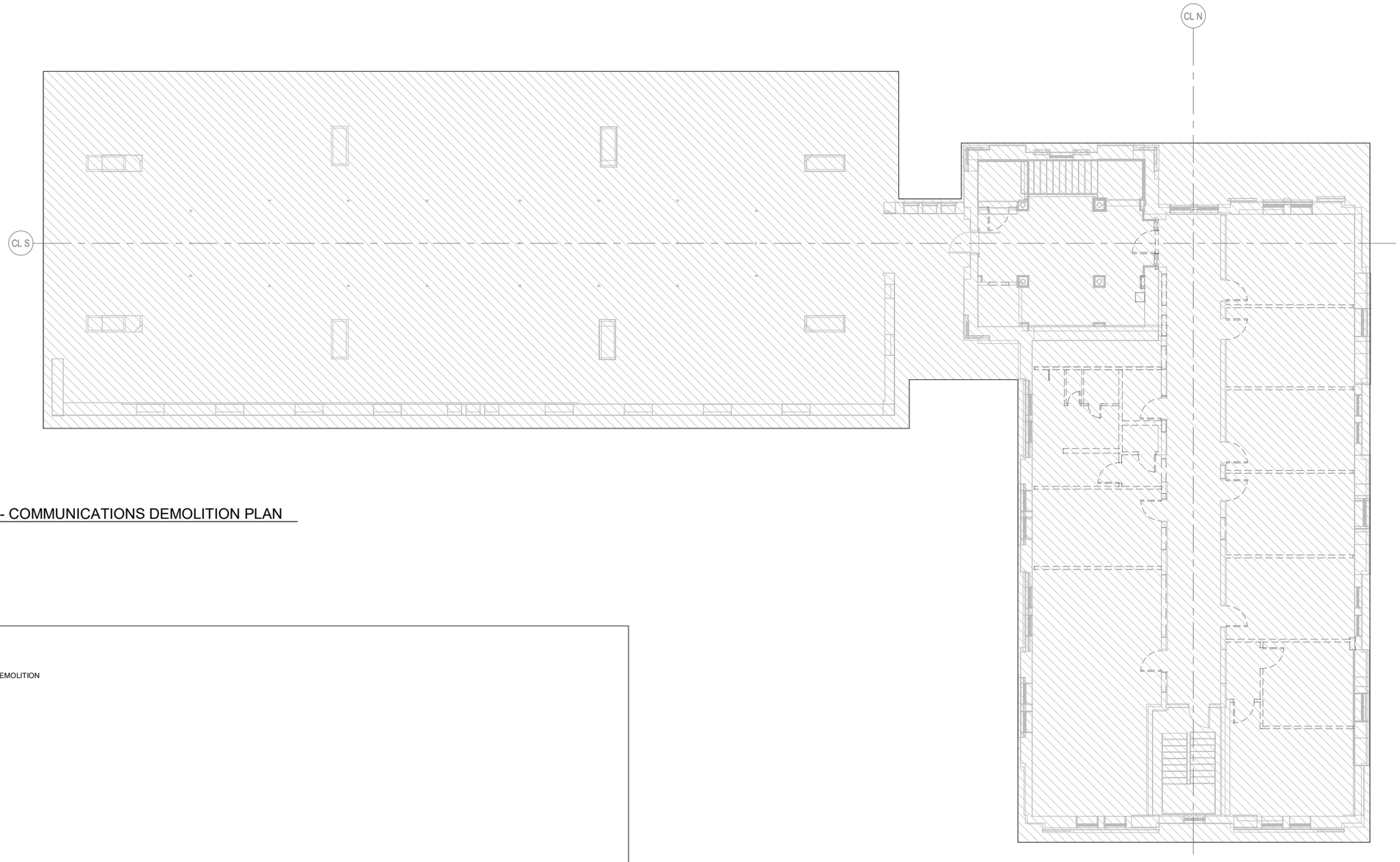
BUILDINGS 605/607 RENOVATION - LINCOLN HALL

LEVEL 3 - COMMUNICATIONS DEMOLITION PLAN

SHEET ID

TD106

REVISED RTA SUBMISSION 3/1/2023



C1 LEVEL 4 - COMMUNICATIONS DEMOLITION PLAN
1/8" = 1'-0"

LEGEND

LIMITS OF DEMOLITION

DEMOLITION NOTES

1 REMOVE ALL COMMUNICATIONS AND SECURITY DEVICES INCLUDING BUT NOT LIMITED TO CABINETS, RACKS, OUTLETS AND CABLING BACK TO IT'S SOURCE.

2 INVENTORY, REMOVE AND STORE ALL DAS SYSTEM AMPLIFIERS, ANTENNAS, SPLITTERS, REPEATERS, HUBS AND RACK MOUNTED EQUIPMENT AS DIRECTED BY WEST POINT CIO/G6 GARY ALBAUGH. REMOVE ALL CABLING ASSOCIATED WITH THE DAS SYSTEM BACK TO IT'S SOURCE.

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0 4' 8' 16'
SCALE: 1/8"=1'-0"

N

US Army Corps of Engineers ®

MARK	DESCRIPTION	DATE

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DRAWN BY: C. TINKER
CHECKED BY: J. HEITZ
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US ARMY CORPS OF ENGINEERS
LINCOLN HALL
WEST POINT, NEW YORK

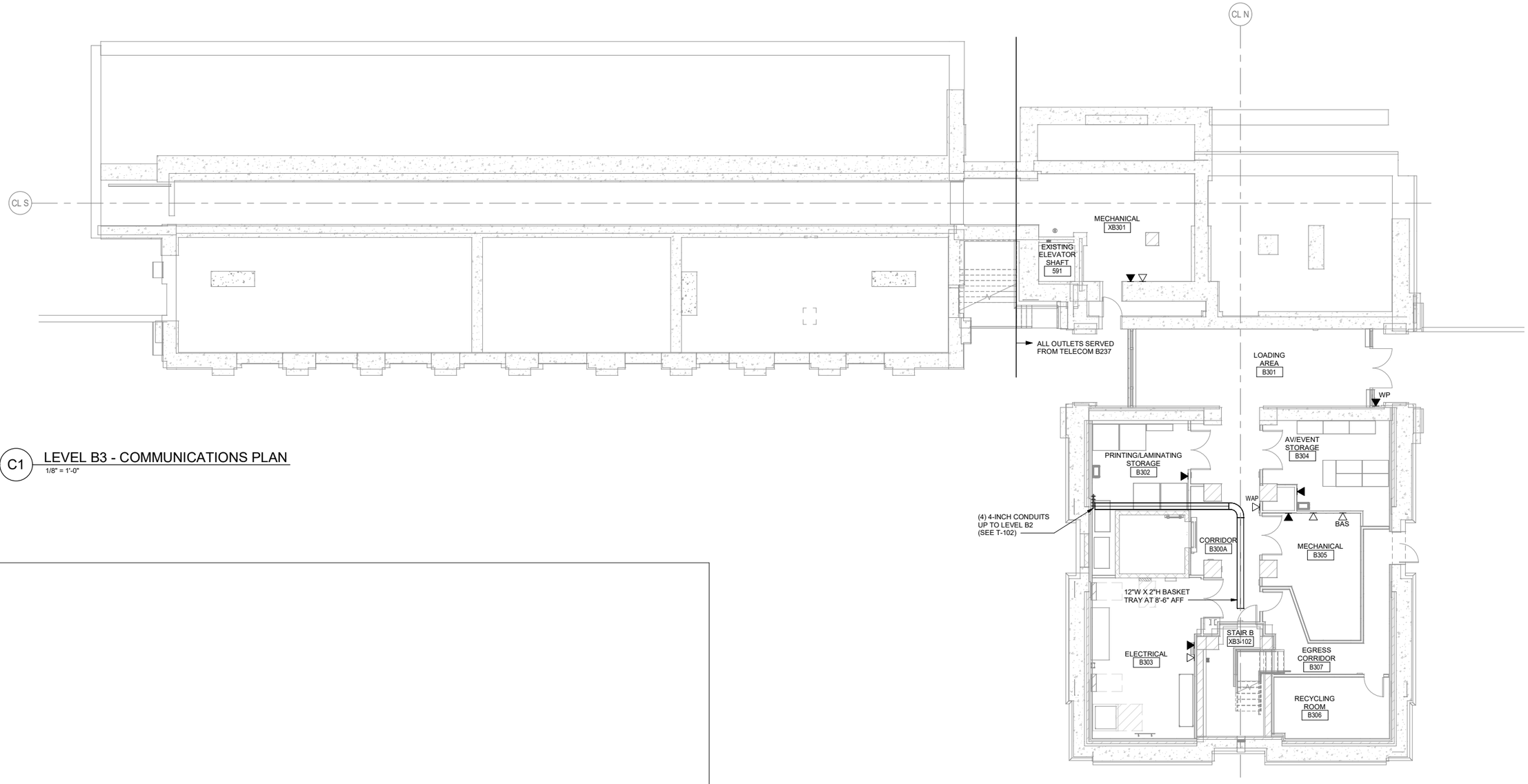
JACOBS / EWING COLE A Joint Venture

BUILDINGS 605/607 RENOVATION - LINCOLN HALL

LEVEL 4 - COMMUNICATIONS DEMOLITION PLAN

SHEET ID

TD107



C1 LEVEL B3 - COMMUNICATIONS PLAN

1/8" = 1'-0"

0 4' 8' 16'

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

N

REVISED RTA SUBMISSION 3/1/2023

US Army Corps of Engineers ®

MARK	DESCRIPTION	DATE

DESIGNED BY: S. MANBERRY
DRAWN BY: C. TINKER
CHECKED BY: J. HEITZ
SUBMITTED BY:
ISSUE DATE: 01 MARCH 2023
SOLICITATION NO.: W912DS-18-R-0014
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US ARMY CORPS OF ENGINEERS
LINCOLN HALL
WEST POINT, NEW YORK

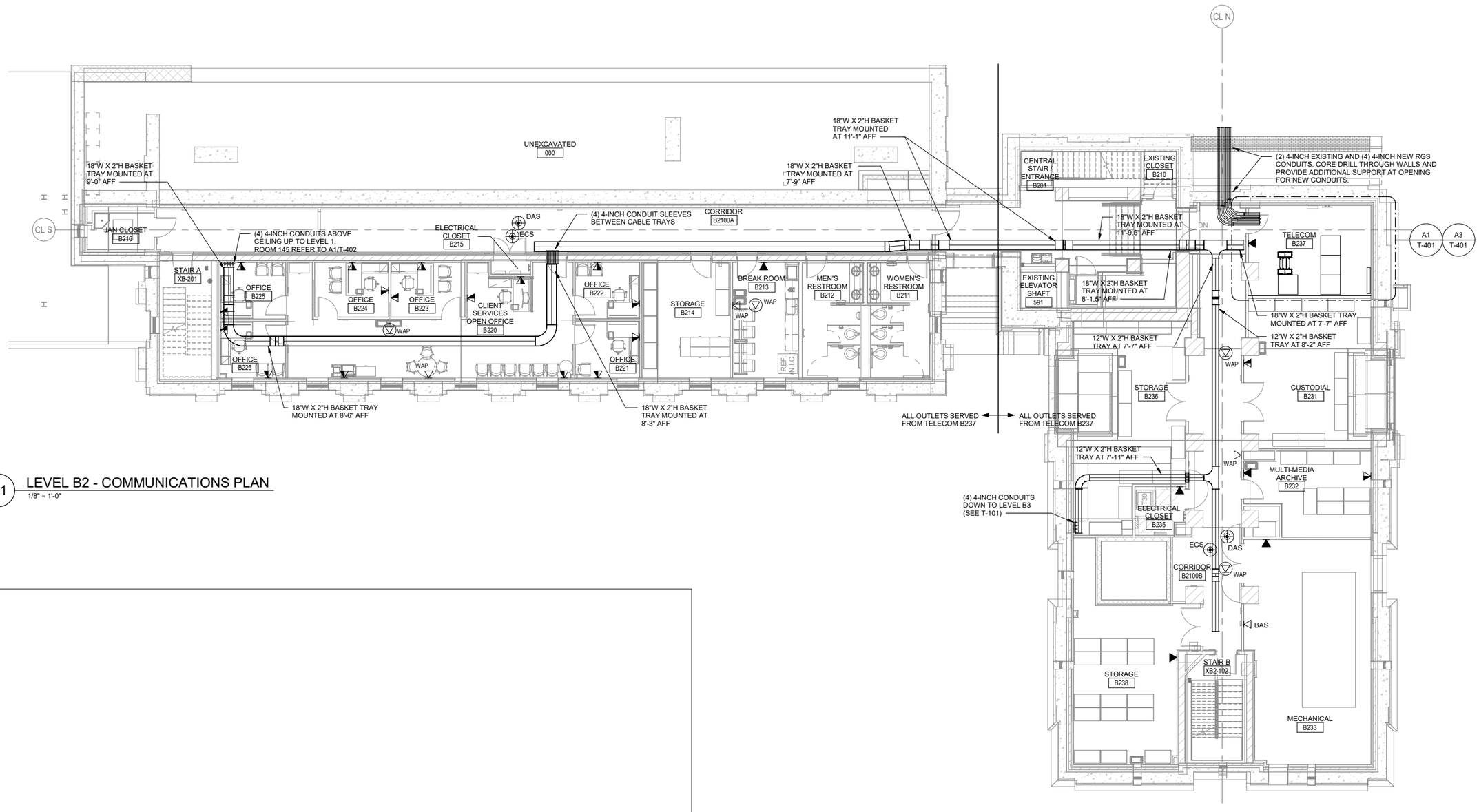
JACOBS / EWING COLE A Joint Venture

BUILDINGS 605/607 RENOVATION - LINCOLN HALL

LEVEL B3 FLOOR PLAN - COMMUNICATIONS

SHEET ID

T-101



C1 LEVEL B2 - COMMUNICATIONS PLAN

1/8" = 1'-0"

0 4' 8' 16'

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

N

REVISED RTA SUBMISSION 3/1/2023

US Army Corps of Engineers ®

MARK	DESCRIPTION	DATE

DESIGNED BY: S. MANSBERRY
DRAWN BY: C. TINKER
CHECKED BY: J. HEITZ
SUBMITTED BY:
ISSUE DATE: 01 MARCH 2023
SOLICITATION NO.: W912DS-18-R-0014
CONTRACT NO.: W912DS-19-C-0031-L
FILE NUMBER:
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FILE NAME:

US ARMY CORPS OF ENGINEERS
LINCOLN HALL
WEST POINT, NEW YORK

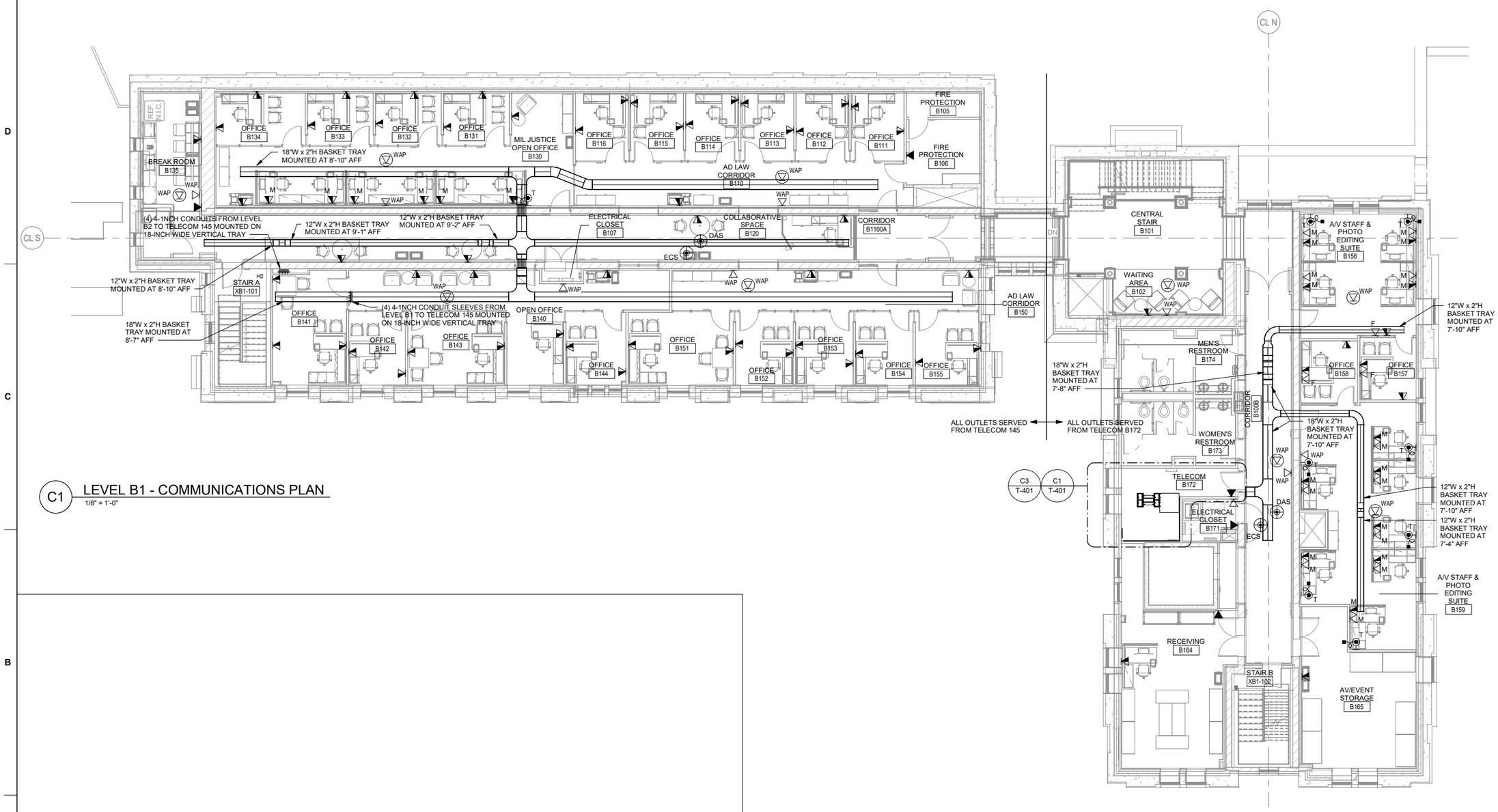
JACOBS / EWING COLE A Joint Venture

BUILDINGS 605/607 RENOVATION - LINCOLN HALL

LEVEL B2 FLOOR PLAN - COMMUNICATIONS

SHEET ID

T-102



C1 LEVEL B1 - COMMUNICATIONS PLAN

1/8" = 1'-0"

0 4' 8' 16'

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

N

REVISED RTA SUBMISSION 3/1/2023

US Army Corps of Engineers ®

MARK	DESCRIPTION	DATE

DESIGNED BY: S. MANBERG
DRAWN BY: C. TINKER
CHECKED BY: J. HEITZ
SUBMITTED BY:
ISSUE DATE: 01 MARCH 2023
SOLICITATION NO.: W912DS-18-R-0014
CONTRACT NO.: W912DS-19-C-0031-L
FILE NUMBER:
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FILE NAME:

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LINCOLN HALL
WEST POINT, NEW YORK

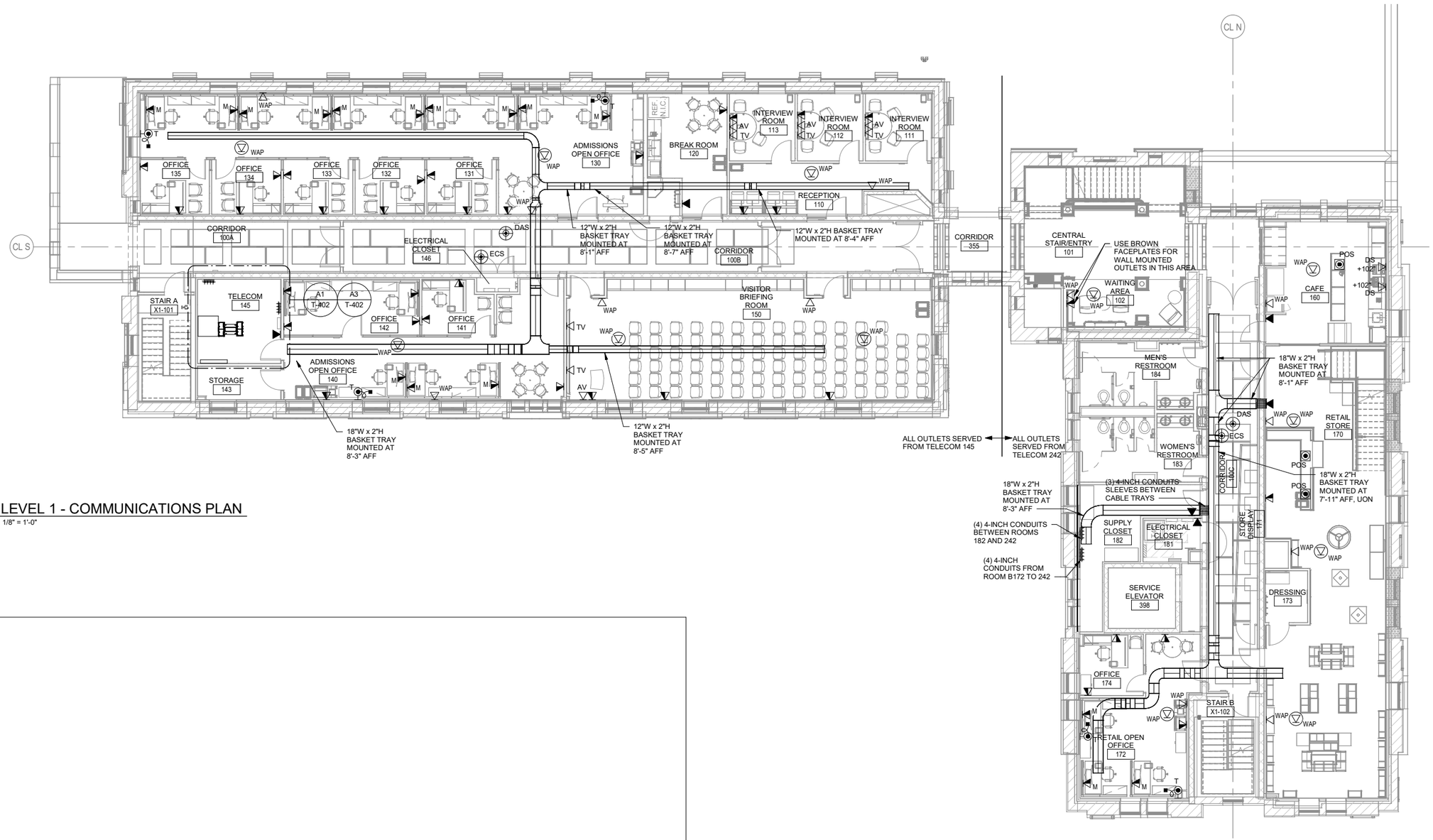
JACOBS / EWING COLE A Joint Venture

BUILDINGS 605/607 RENOVATION - LINCOLN HALL

LEVEL B1 FLOOR PLAN - COMMUNICATIONS

SHEET ID

T-103



C1 LEVEL 1 - COMMUNICATIONS PLAN

1/8" = 1'-0"

0 4' 8' 16'

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

N

REVISED RTA SUBMISSION 3/1/2023

US Army Corps of Engineers ®

MARK	DESCRIPTION	DATE

DESIGNED BY:	S. MANSBERY
DRAWN BY:	C. TINKER
CHECKED BY:	J. HEITZ
SUBMITTED BY:	
SIZE:	ANSI 'D'
ISSUE DATE:	01 MARCH 2023
SOLICITATION NO.:	W912DS-18-R-0014
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US ARMY CORPS OF ENGINEERS
LINCOLN HALL
WEST POINT, NEW YORK

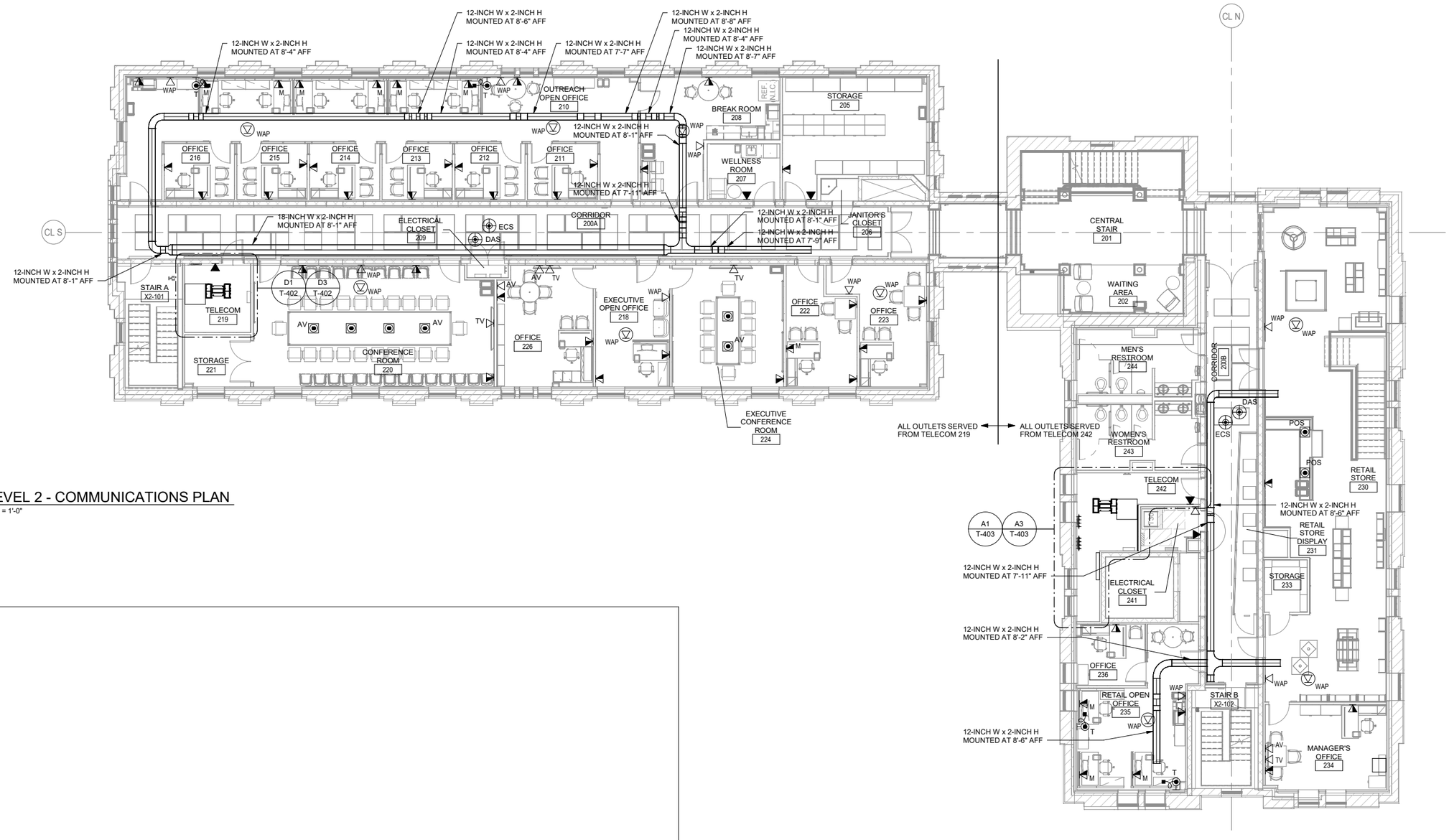
JACOBS / EWING COLE A Joint Venture

BUILDINGS 605/607 RENOVATION - LINCOLN HALL

LEVEL 1 FLOOR PLAN - COMMUNICATIONS

SHEET ID

T-104



C1 LEVEL 2 - COMMUNICATIONS PLAN

1/8" = 1'-0"

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

US Army Corps of Engineers ®

MARK	DESCRIPTION	DATE

DESIGNED BY: S. MANSBERRY
DRAWN BY: C. TINKER
CHECKED BY: J. HEITZ
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ISSUE DATE: 01 MARCH 2023
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CONTRACT NO.: W912DS-19-C-0031-L
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US ARMY CORPS OF ENGINEERS
LINCOLN HALL
WEST POINT, NEW YORK

JACOBS / EWING COLE A Joint Venture

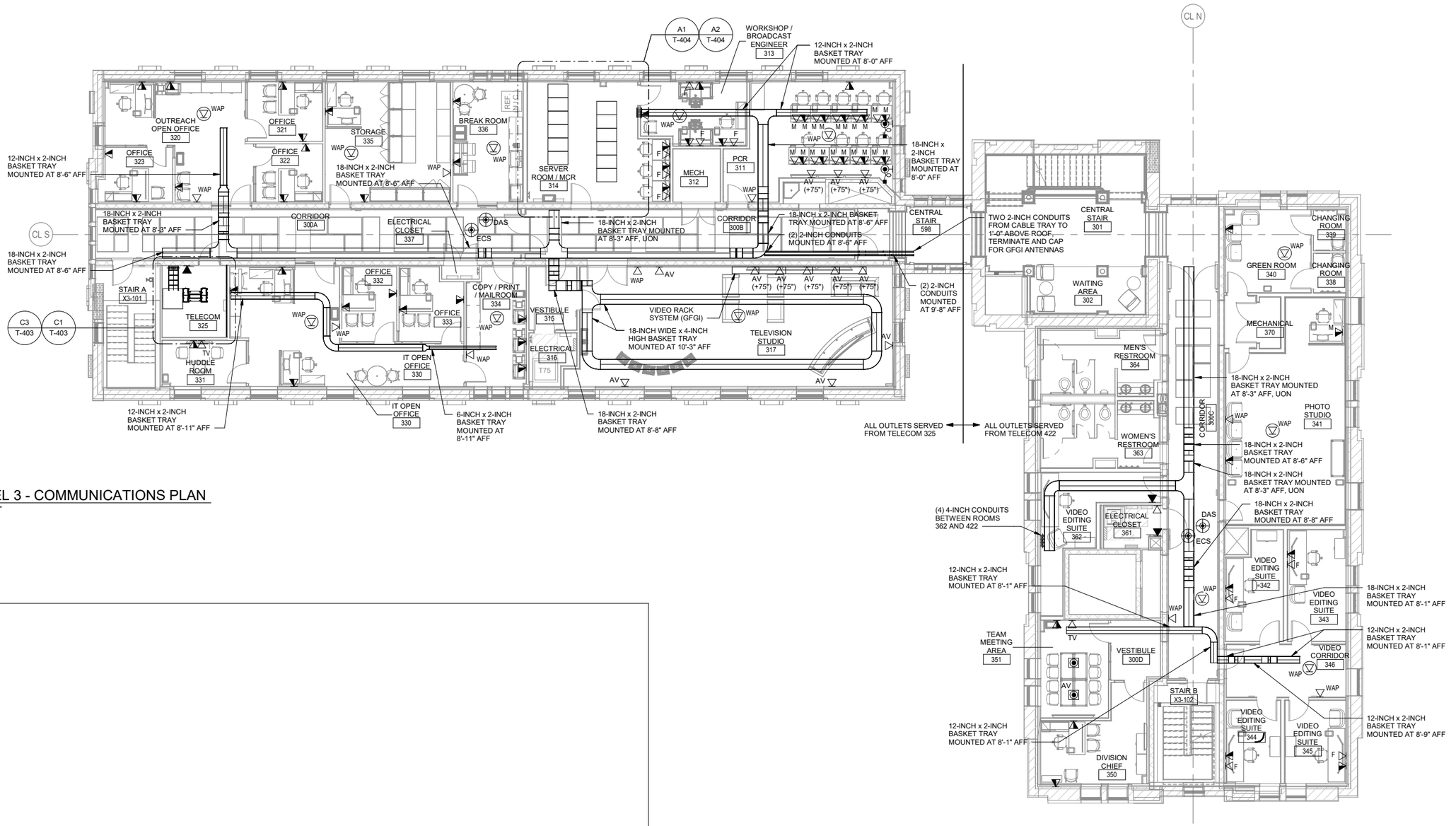
BUILDINGS 605/607 RENOVATION - LINCOLN HALL

LEVEL 2 FLOOR PLAN - COMMUNICATIONS

SHEET ID

T-105

REVISED RTA SUBMISSION 3/1/2023



A1 LEVEL 3 - COMMUNICATIONS PLAN

1/8" = 1'-0"

0 4' 8' 16'

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

N

US Army Corps of Engineers ®

MARK	DESCRIPTION	DATE

DESIGNED BY: S. MANBERRY
DRAWN BY: C. TINKER
CHECKED BY: J. HEITZ
SUBMITTED BY:

ISSUE DATE: 01 MARCH 2023
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US ARMY CORPS OF ENGINEERS
LINCOLN HALL
WEST POINT, NEW YORK

JACOBS / EWING COLE A Joint Venture

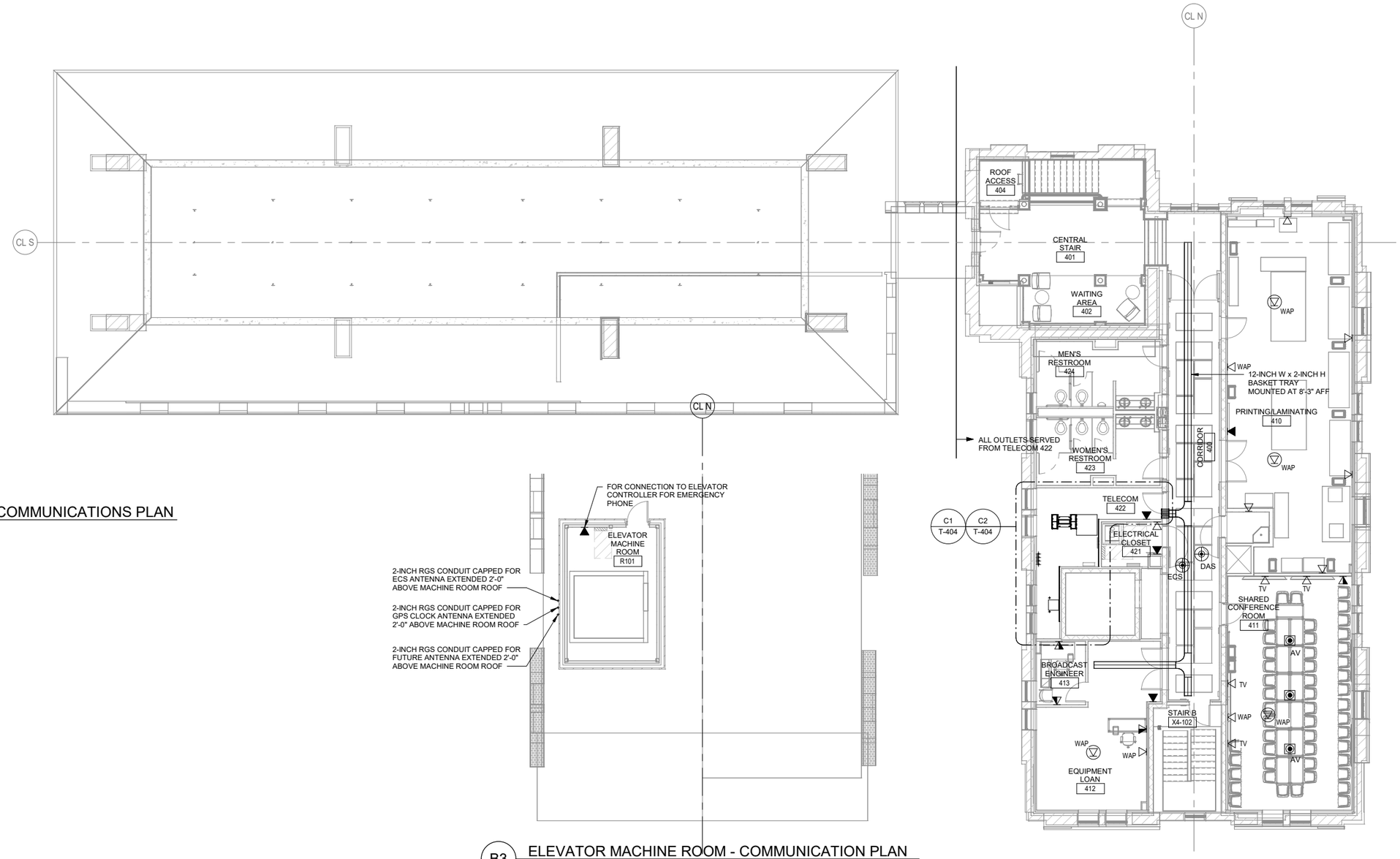
BUILDINGS 605/607 RENOVATION - LINCOLN HALL

LEVEL 3 FLOOR PLAN - COMMUNICATIONS

SHEET ID

T-106

REVISED RTA SUBMISSION 3/1/2023



C1 LEVEL 4 - COMMUNICATIONS PLAN
1/8" = 1'-0"

B3 ELEVATOR MACHINE ROOM - COMMUNICATION PLAN
1/8" = 1'-0"

0 4' 8' 16'
SCALE: 1/8"=1'-0"

N

US Army Corps of Engineers ®

MARK	DESCRIPTION	DATE

DESIGNED BY: S SAMBERRY
DRAWN BY: C. TINKER
CHECKED BY: J. HEITZ
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US ARMY CORPS OF ENGINEERS
LINCOLN HALL
WEST POINT, NEW YORK

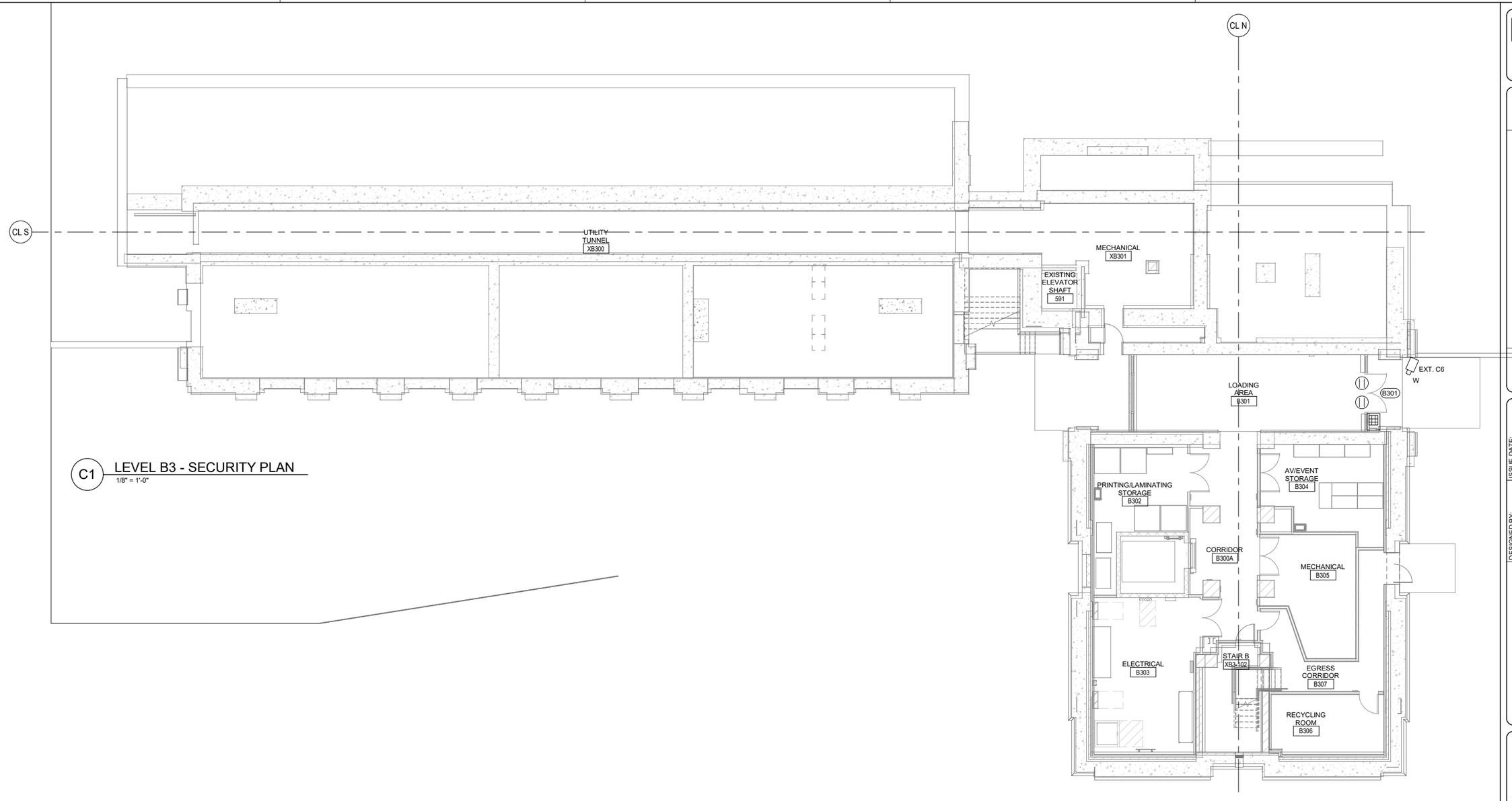
JACOBS / EWING COLE A Joint Venture

BUILDINGS 605/607 RENOVATION - LINCOLN HALL

LEVEL 4 FLOOR PLAN - COMMUNICATIONS

SHEET ID
T-107

REVISED RTA SUBMISSION 3/1/2023



C1 LEVEL B3 - SECURITY PLAN

1/8" = 1'-0"

0 4' 8' 16'

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

N

US Army Corps of Engineers ®

MARK	DESCRIPTION	DATE

DESIGNED BY: S. MANSBERRY
DRAWN BY: C. TINKER
CHECKED BY: J. HEITZ
SUBMITTED BY:
ISSUE DATE: 01 MARCH 2023
SOLICITATION NO.: W912DS-18-R-0014
CONTRACT NO.: W912DS-19-C-0031-L
FILE NUMBER:
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US ARMY CORPS OF ENGINEERS
LINCOLN HALL
WEST POINT, NEW YORK

JACOBS / EWING COLE A Joint Venture

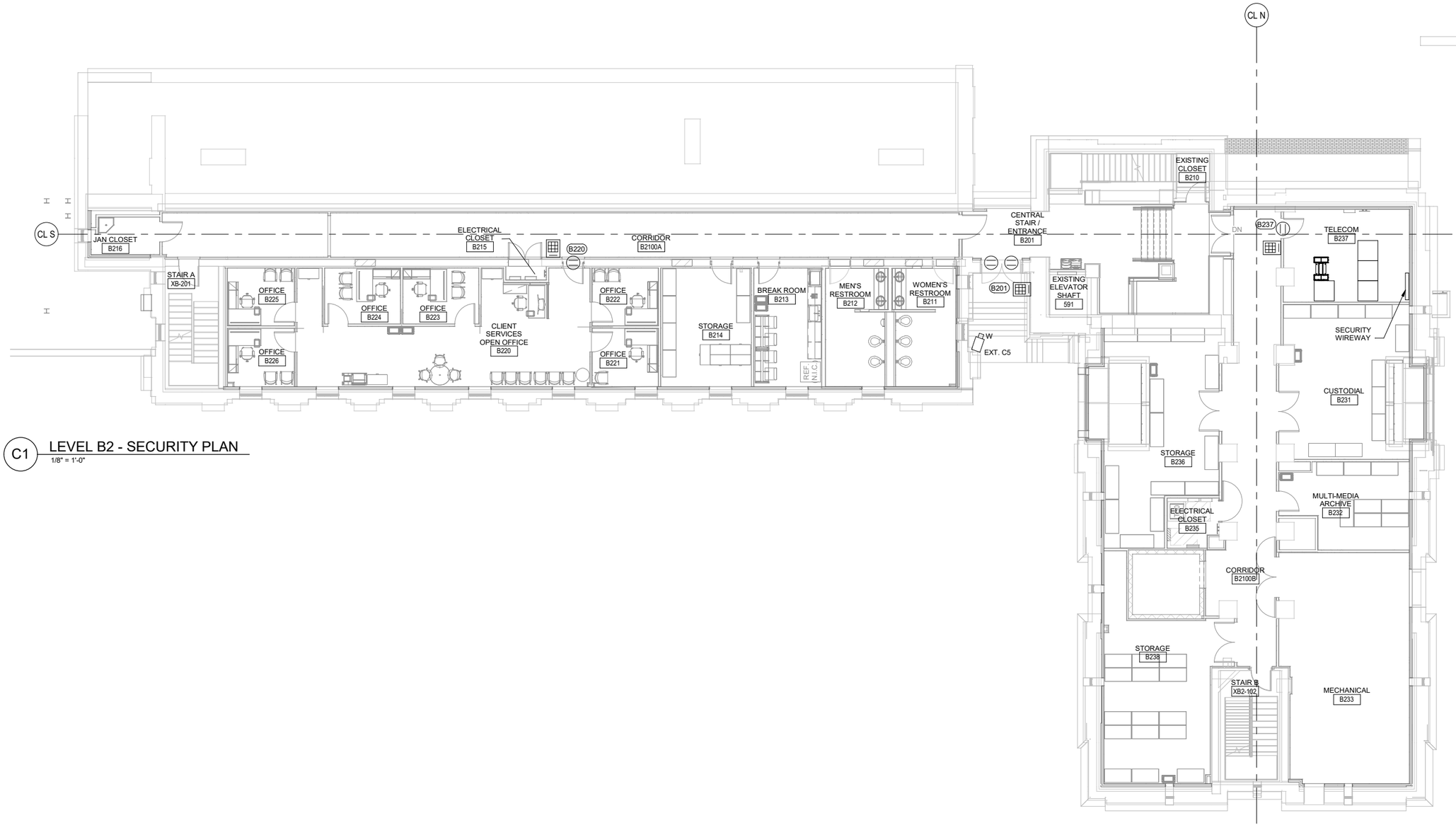
BUILDINGS 605/607 RENOVATION - LINCOLN HALL

LEVEL B3 FLOOR PLAN - SECURITY

SHEET ID

TY101

REVISED RTA SUBMISSION 3/1/2023



C1 LEVEL B2 - SECURITY PLAN

1/8" = 1'-0"

0 4' 8' 16'

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

N

REVISED RTA SUBMISSION 3/1/2023

US Army Corps of Engineers ®

MARK	DESCRIPTION	DATE

DESIGNED BY: S. MANSBERY
DRAWN BY: C. TINKER
CHECKED BY: J. HEITZ
SUBMITTED BY:
ISSUE DATE: 01 MARCH 2023
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CONTRACT NO.: W912DS-19-C-0031-L
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US ARMY CORPS OF ENGINEERS
LINCOLN HALL
WEST POINT, NEW YORK

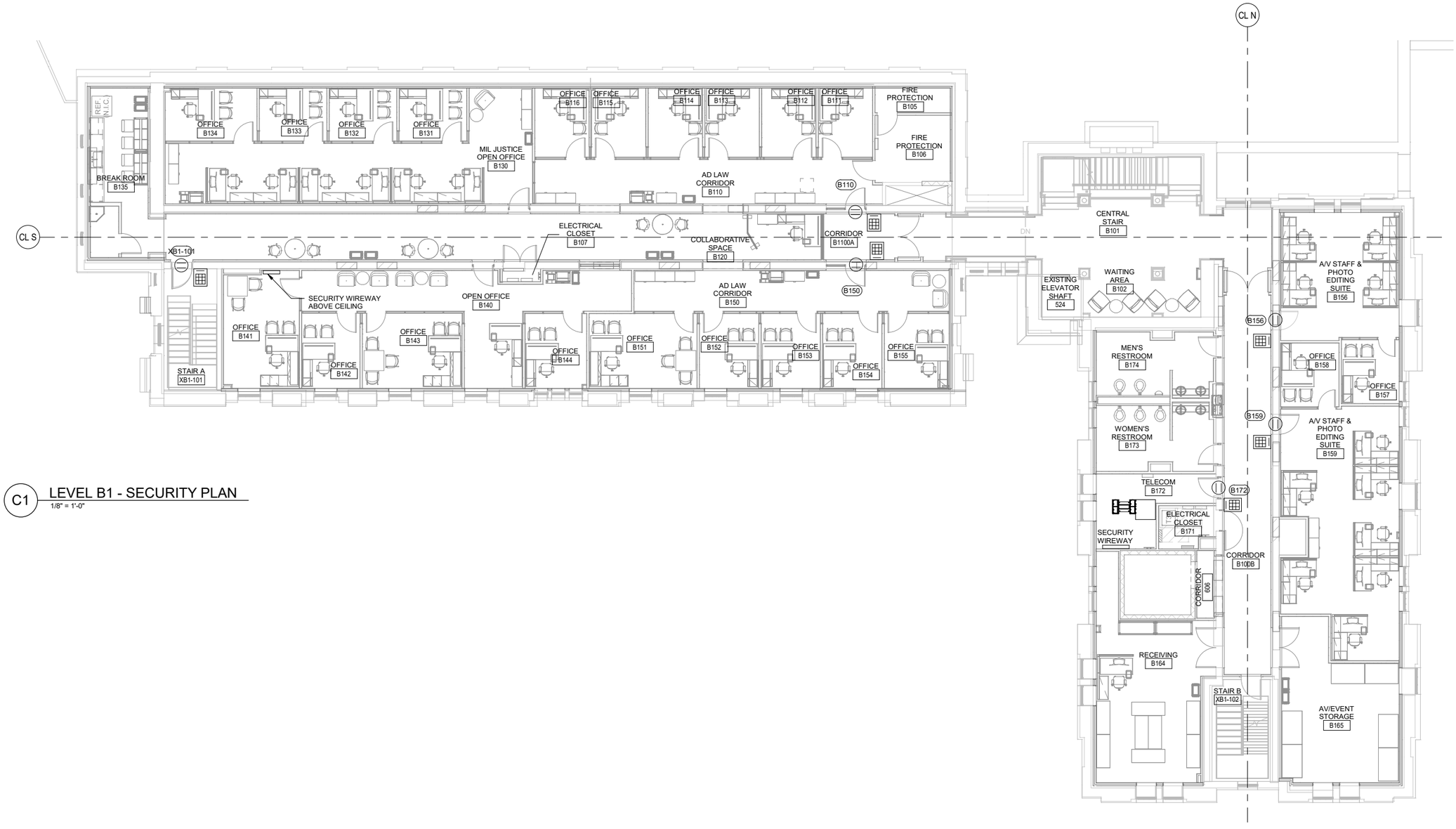
JACOBS / EWING COLE A Joint Venture

BUILDINGS 605/607 RENOVATION - LINCOLN HALL

LEVEL B2 FLOOR PLAN - SECURITY

SHEET ID

TY102



C1 LEVEL B1 - SECURITY PLAN
1/8" = 1'-0"

0 4' 8' 16'
SCALE: 1/8"=1'-0"

N

US Army Corps of Engineers ®

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DRAWN BY: C. TINKER
CHECKED BY: J. HEITZ
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US ARMY CORPS OF ENGINEERS
LINCOLN HALL
WEST POINT, NEW YORK

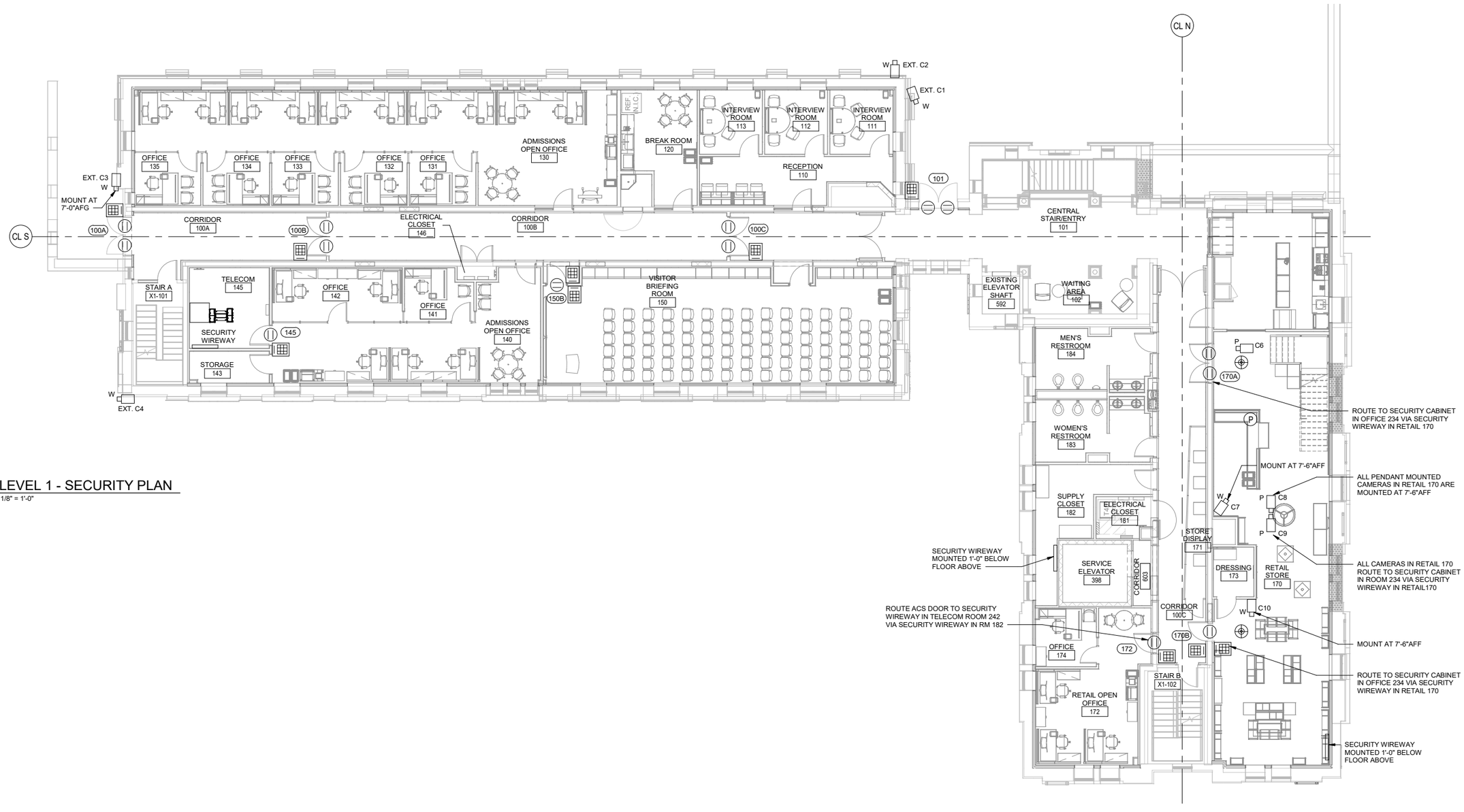
JACOBS / EWING COLE A Joint Venture

BUILDINGS 605/607 RENOVATION - LINCOLN HALL

LEVEL B1 FLOOR PLAN - SECURITY

SHEET ID

TY103



C1 LEVEL 1 - SECURITY PLAN
1/8" = 1'-0"

0 4' 8' 16'
SCALE: 1/8"=1'-0"

N

US Army Corps of Engineers ®

MARK	DESCRIPTION	DATE

DESIGNED BY: S. VANSLEET
DRAWN BY: C. TINKER
CHECKED BY: J. HEITZ
SUBMITTED BY:
SIZE: ANSI 'D'
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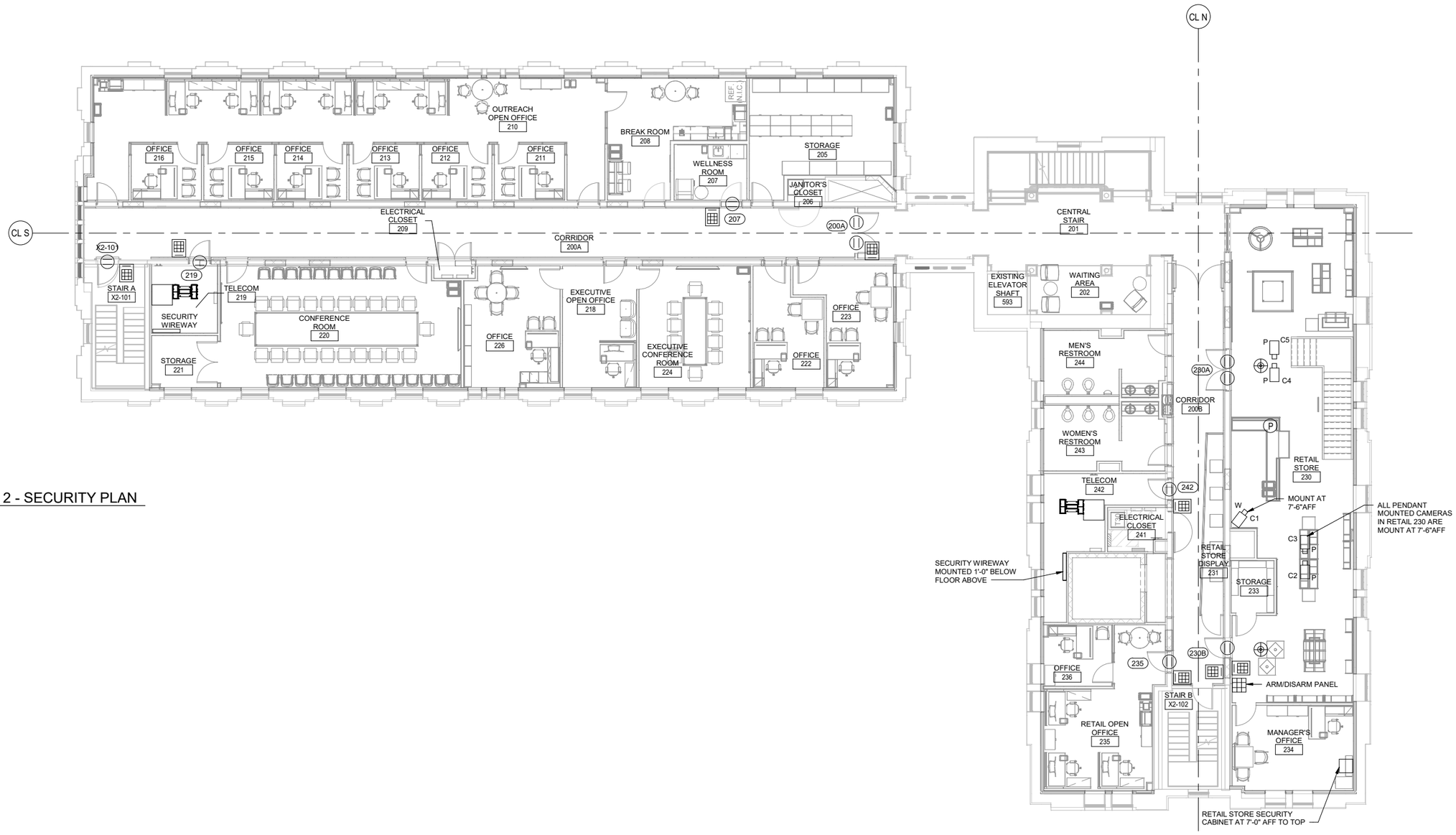
US ARMY CORPS OF ENGINEERS
LINCOLN HALL
WEST POINT, NEW YORK

JACOBS / EWING COLE A Joint Venture

BUILDINGS 605/607 RENOVATION - LINCOLN HALL

LEVEL 1 FLOOR PLAN - SECURITY

SHEET ID
TY104



C1 LEVEL 2 - SECURITY PLAN

1/8" = 1'-0"

0 4' 8' 16'

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

N

US Army Corps of Engineers ®

MARK	DESCRIPTION	DATE

DESIGNED BY: S. MANSBERY
DRAWN BY: C. TINKER
CHECKED BY: J. HEITZ
SUBMITTED BY:
ISSUE DATE: 01 MARCH 2023
SOLICITATION NO.: W912DS-16-R-0014
CONTRACT NO.: W912DS-19-C-0031-L
FILE NUMBER:
SIZE: ANSI 'D'
FILE NAME:

US ARMY CORPS OF ENGINEERS
LINCOLN HALL
WEST POINT, NEW YORK

JACOBS / EWING COLE A Joint Venture

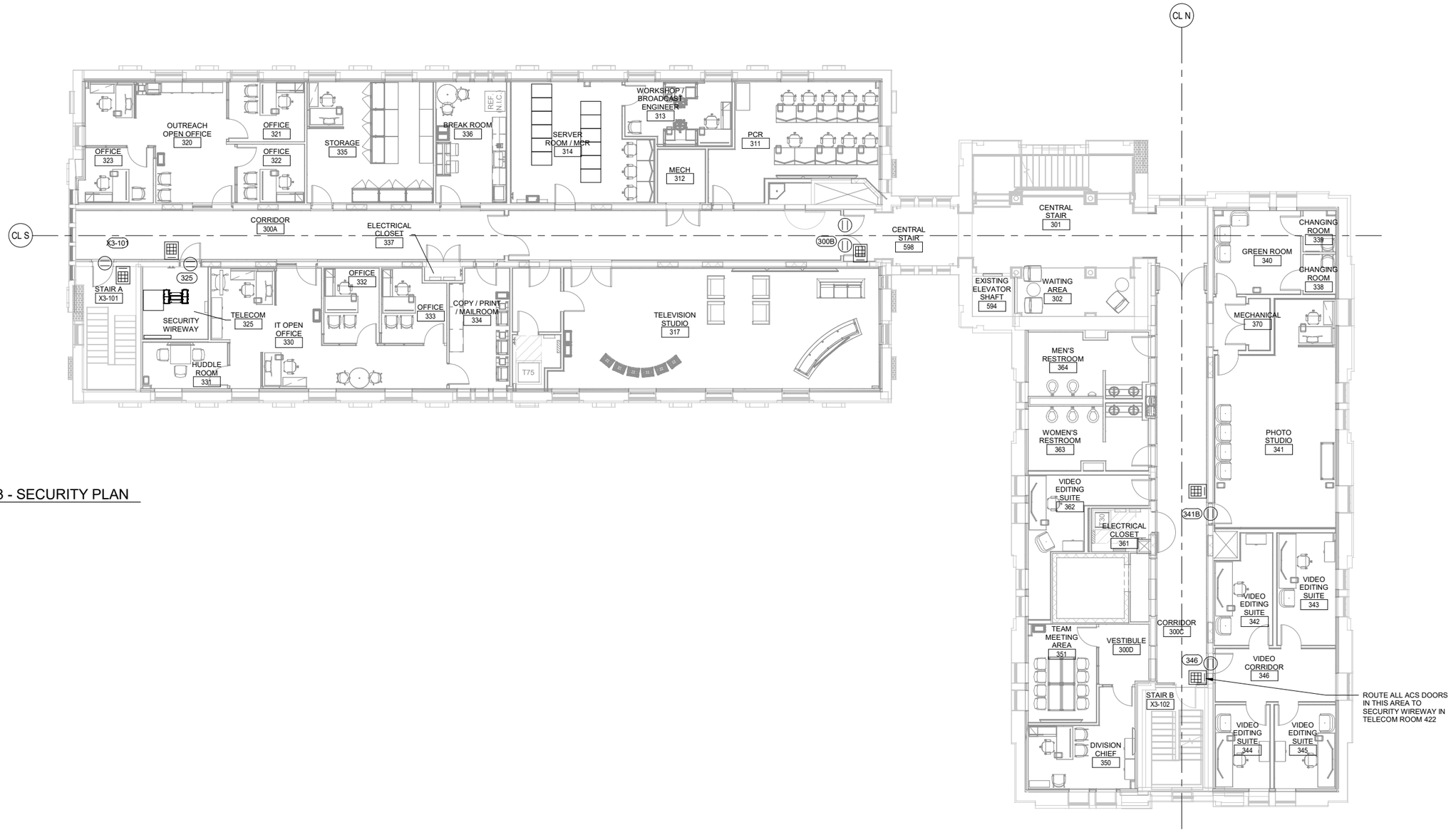
BUILDINGS 605/607 RENOVATION - LINCOLN HALL

LEVEL 2 FLOOR PLAN - SECURITY

SHEET ID

TY105

REVISED RTA SUBMISSION 3/1/2023



C1 LEVEL 3 - SECURITY PLAN
1/8" = 1'-0"

US Army Corps of Engineers ®

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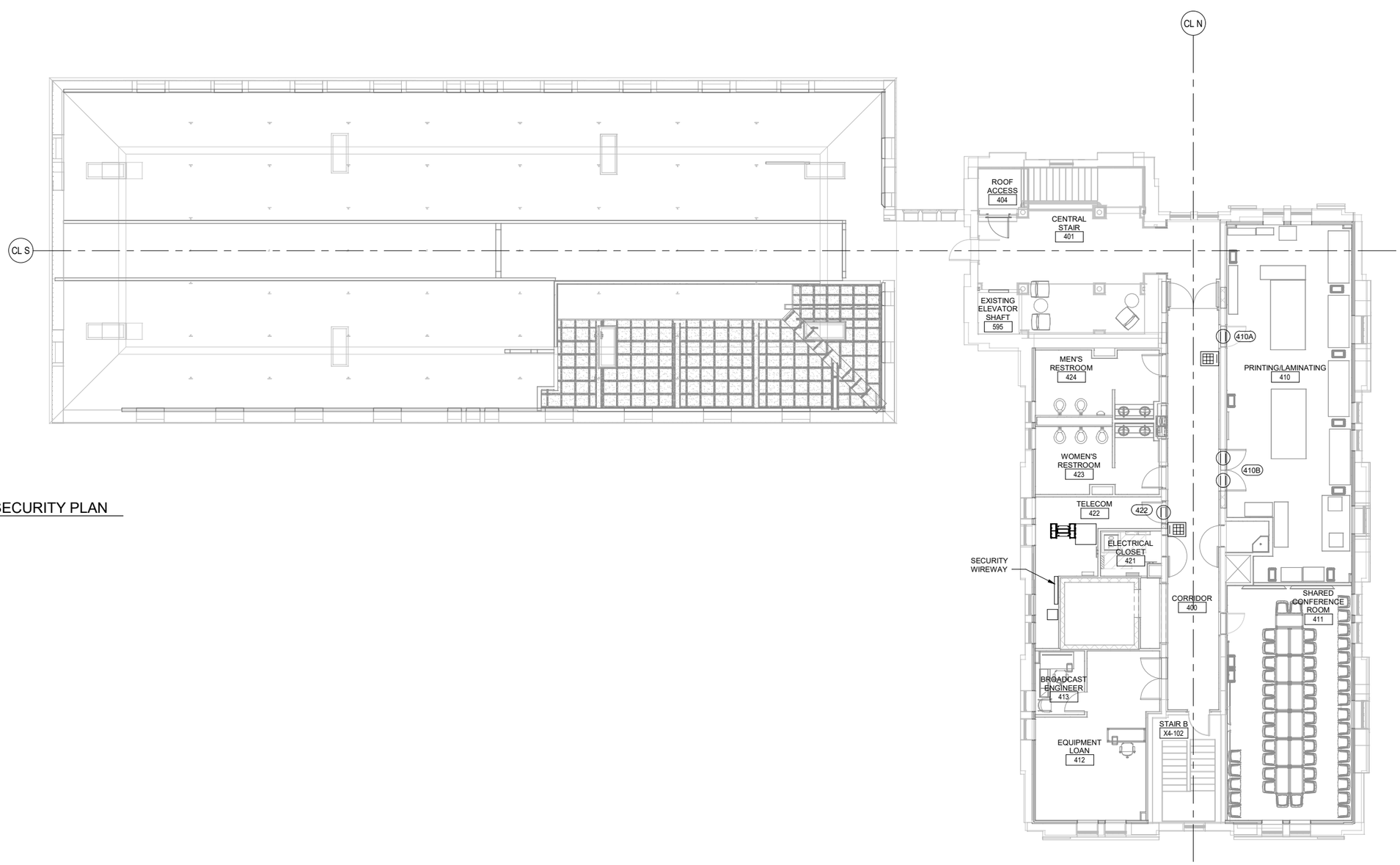
BUILDINGS 605/607 RENOVATION - LINCOLN HALL

LEVEL 3 FLOOR PLAN - SECURITY

SHEET ID

TY106

REVISED RTA SUBMISSION 3/1/2023



C1 LEVEL 4 - SECURITY PLAN
1/8" = 1'-0"

0 4' 8' 16'
SCALE: 1/8"=1'-0"

US Army Corps of Engineers ®

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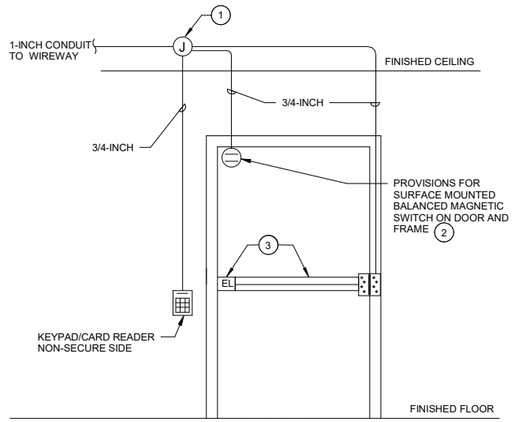
BUILDINGS 605/607 RENOVATION - LINCOLN HALL

LEVEL 4 FLOOR PLAN - SECURITY

SHEET ID

TY107

REVISED RTA SUBMISSION 3/1/2023

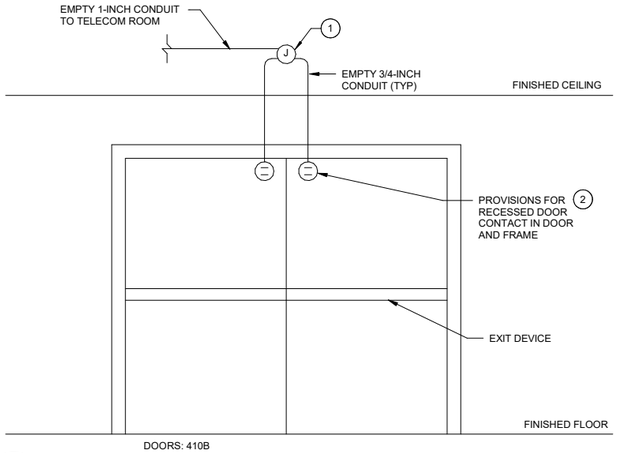


DOORS: XB1-101, X2-101, X3-101

NOTE: ROUGH-INS AT EXTERIOR DOORS MUST BE SURFACE MOUNTED. UTILIZE EXISTING ROUGH-IN WHERE FEASIBLE

C1 TYPICAL SECURED (EX) SINGLE DOOR WITH CARD READER

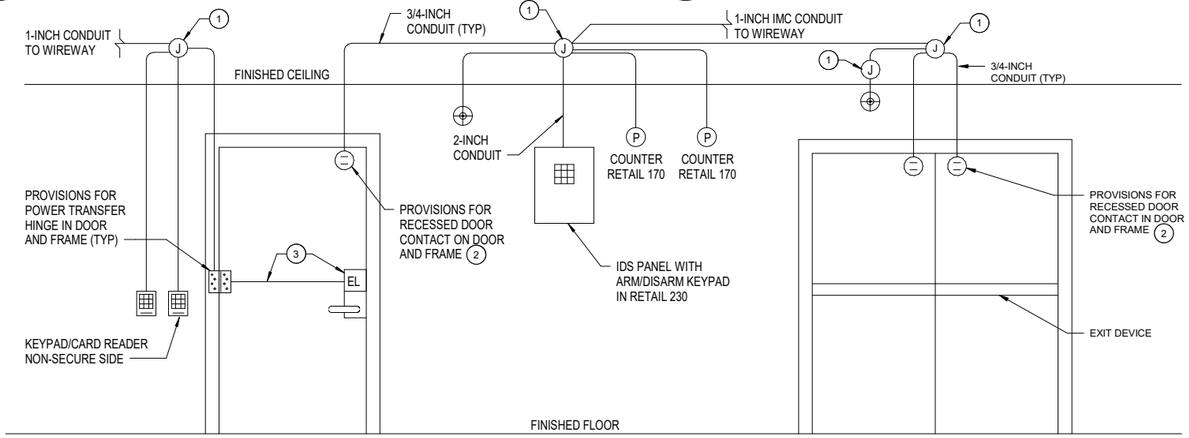
NOT TO SCALE



DOORS: 410B

C3 TYPICAL MONITORED DOUBLE DOOR

NOT TO SCALE

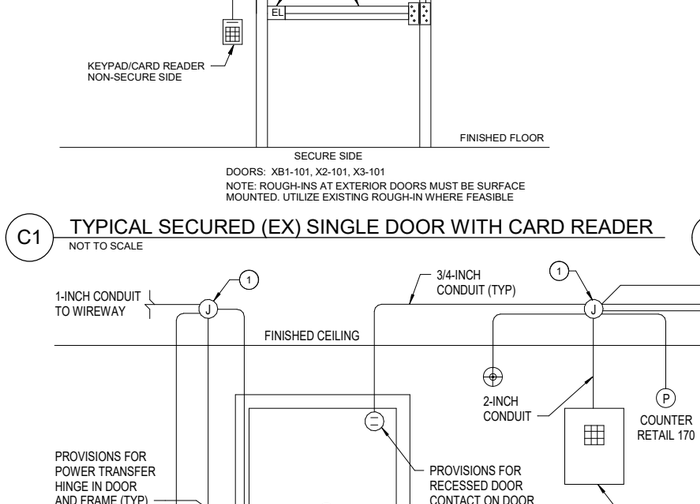


DOORS: 170B, 230B

DOORS: 170A, 230A

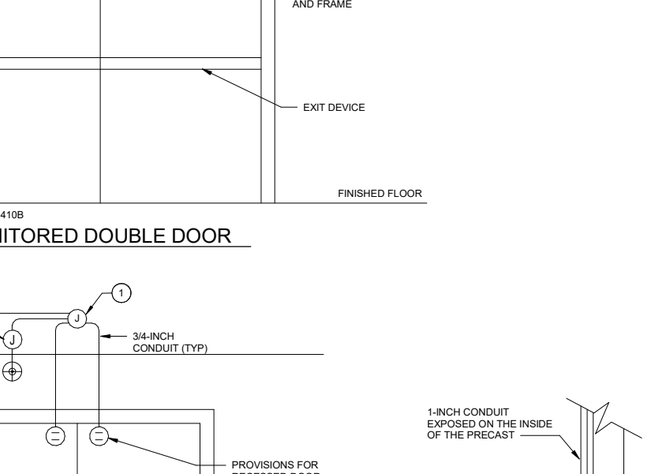
B1 RETAIL STORE 170/230 - ACS/IDS DETAIL (4)

NOT TO SCALE

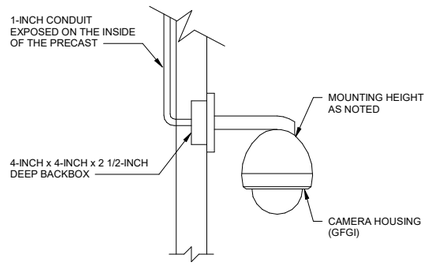


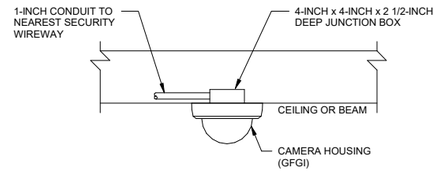
DOORS: B301, B201, 100A, 101

NOTE: ROUGH-INS AT EXTERIOR DOORS MUST BE SURFACE MOUNTED. UTILIZE EXISTING ROUGH-IN WHERE FEASIBLE



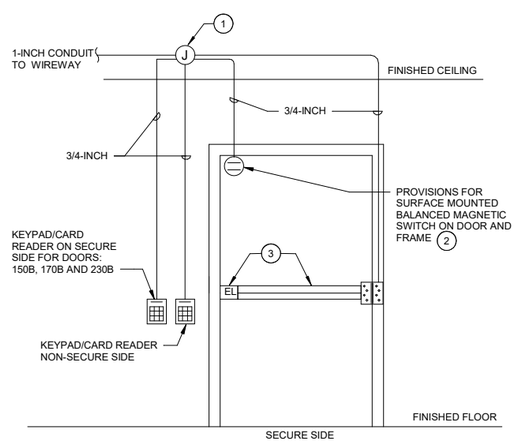
DOORS: 100B, 100C, 200A, 300B





B4 CAMERA DETAILS

NOT TO SCALE



DOORS: B220, B237, B110, B150, B156, B159, B172, 145, 172,219, 207, 242-T, 235, 325, 341B, 346, 410A, 422

A1 TYPICAL SECURED (EX) DOUBLE DOOR WITH CARD READER & EXIT DEVICE

NOT TO SCALE

A3 TYPICAL MONITORED DOUBLE DOOR WITH CARD READER & EXIT DEVICE

NOT TO SCALE

A5 TYPICAL SECURED SINGLE DOOR WITH CARD READER

NOT TO SCALE

GENERAL NOTES

1. ALL CONDUITS MUST HAVE 200 POUND TEST PULL STRINGS.
2. ALL INTERIOR SECURITY CONDUITS ARE 3/4-INCH EMT WITHCOMPRESSION FITTING, UON. ALL EXTERIOR SECUIRTY CONDUITS ARE RGS, UON.
3. ALL SECUIRTY SYSTEM ELECTRONICS AND WIRING ARE CFCI. COORDINATE BACKBOX REQUIREMENTS WITH EQUIPMENT PRIOR TO INSTALLATION.

KEYNOTES (#)

1 6-INCH BY 6-INCH BY 4-INCH DEEP BOX WITH BLANK COVER. RECESS WITHIN 24-INCHES ABOVE DOOR.

2 PREP ALL DOORS TO ACCEPT RECESSED OR FLUSH MOUNTED BMS. REFERNCE ARCHITECTURAL DOOR HARDWARE SCHEDULE FOR ADDITIONAL INFORMATION.

3 REQUEST TO EXIT SWITCH INTEGRAL TO DOOR HARDWARE.

4 WORK DEPICTED ON THIS DETAIL AND PLANS FOR THE IDS ONLY FOR THE RETAIL STORE MUST BE INCLUDED IN CLIN 007 PRICING SCHEDULE.

US Army Corps of Engineers ®

MARK	DESCRIPTION	DATE

ISSUE DATE: 01 MARCH 2023
SOLICITATION NO.: W912DS-18-R-0014
CONTRACT NO.: W912DS-19-C-0031-L
FILE NUMBER:

DESIGNED BY: S. HANSBERRY
DRAWN BY: C. TINKER
CHECKED BY: J. HEITZ
SUBMITTED BY:
SIZE: ANSI 'D'
FILE NAME:

US ARMY CORPS OF ENGINEERS
LINCOLN HALL
WEST POINT, NEW YORK

JACOBS / EWING COLE A Joint Venture

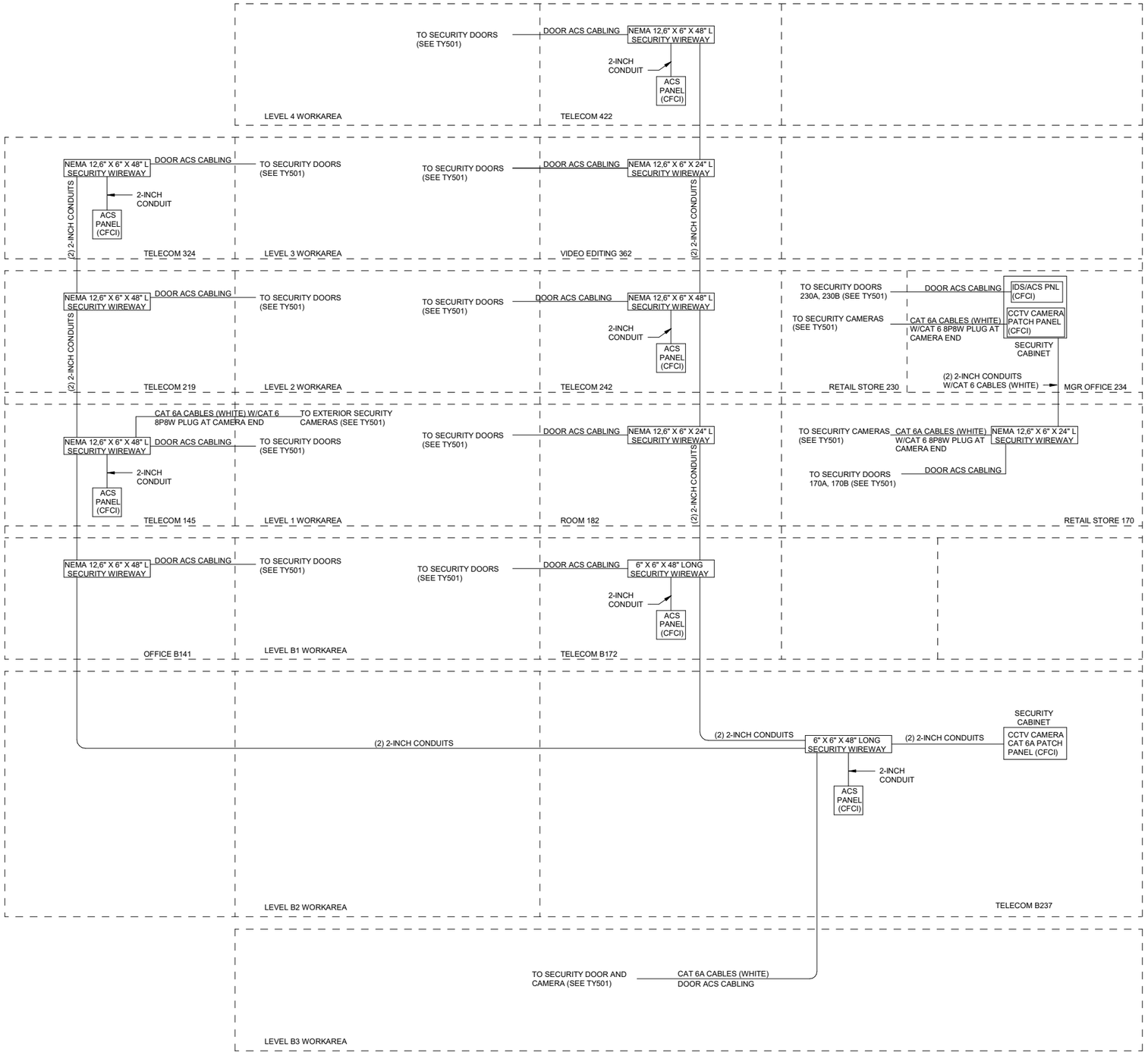
BUILDINGS 605/607 RENOVATION - LINCOLN HALL

SECURITY DOOR AND CAMERA DETAILS

SHEET ID

TY501

REVISED RTA SUBMISSION 3/1/2023



A1 SECURITY PATHWAY DIAGRAM
NOT TO SCALE

GENERAL NOTES

1. ALL CONDUITS MUST HAVE 200 POUND TEST PULL STRINGS.
2. ALL INTERIOR SECURITY CONDUITS ARE 3/4-INCH EMT WITH COMPRESSION FITTING, UON. ALL EXTERIOR SECUIRTY CONDUITS ARE RGS, UON.
3. ALL SECUIRTY SYSTEM ELECTRONICS ACCESS CONTROL SYSTEM (ACS), INTRUSION DETECTION SYSTEM (IDS) AND WIRING ARE CFCI. COORDINATE BACKBOX REQUIREMENTS WITH EQUIPMENT PRIOR TO INSTALLATION.
4. THE ACS MUST BE A STANDALONE SYSTEM AND MUST INCLUDE BUT NOT LIMITED TO CONTROL PANEL WITH BATTERY BACKUP, FIPS COMPLIANT CARD/KEYPAD READERS, DOOR POSITION SWITCHES, ELECTRIC STRIKES, CABLING, MONITORING AND REPORTING FOR A COMPLETE AND FUNCTIONAL. FINAL PROGRAMMING MUST BE BY THE GOVERNMENT.
5. AN IDS WILL BE REQUIRED FOR THE CADET STORE. THE SYSTEM MUST INCLUDE BUT NOT LIMITED TO CONTROL PANEL, ARM/DISARM PANEL, MOTIONS SENSORS AND BALANCED MAGNETIC SENSORS (BMS) FOR DOORS AND CABLING FOR A COMPLETE AND FUNCTIONAL SYSTEM WITH FINAL PROGRAMMING BY THE GOVERNMENT. ALARMS WILL BE TRANSMITTED BACK TO THE MILITARY POLICE (MP) BUILDING VIA EXISTING INFRASTRUCTURE AND VIEWABLE AT THE MP DESK AND KACH SECURITY.
6. THE CCTV DESIGN MUST INCLUDE CONDUIT, JUNCTION BOXES AND CAT 6A PER STANDARDS CABLING TO SUPPORT GOVERNMENT FURNISHED, GOVERNMENT INSTALLED (GFGI) IP CCTV EQUIPMENT INCLUDING HEADEND EQUIPMENT AND CAMERAS. THE CCTV HEADEND AND DVRS MUST BE IN THE TER. CCTV FEEDS WILL BE TRANSMITTED BACK TO THE MILITARY POLICE (MP) BUILDING VIA EXISTING INFRASTRUCTURE AND VIEWABLE AT THE MP DESK AND KACH SECURITY.

US Army Corps of Engineers ®

MARK	DESCRIPTION	DATE

DESIGNED BY: S. MAHLBERRY
DRAWN BY: C. TINKER
CHECKED BY: J. HEITZ
SUBMITTED BY:
ISSUE DATE: 01 MARCH 2023
SOLICITATION NO.: W912DS-18-R-0014
CONTRACT NO.: W912DS-19-C-0031-L
FILE NUMBER:
SIZE: ANSI 'D'
FILE NAME:

US ARMY CORPS OF ENGINEERS
LINCOLN HALL
WEST POINT, NEW YORK

JACOBS / EWING COLE A Joint Venture

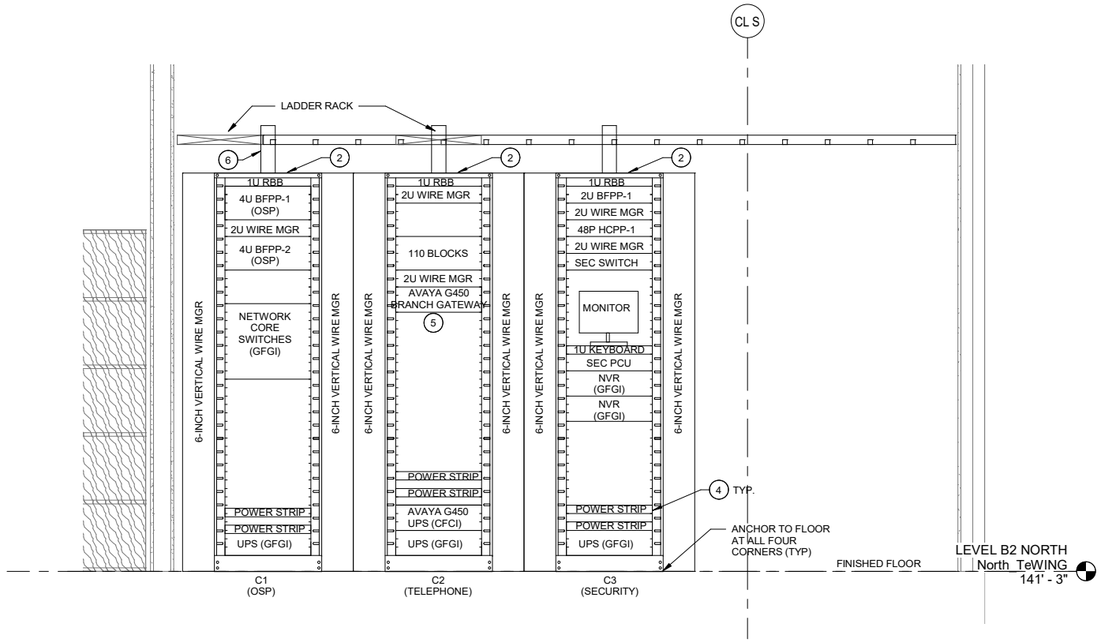
BUILDINGS 605/607 RENOVATION - LINCOLN HALL

SECURITY PATHWAY DIAGRAM

SHEET ID

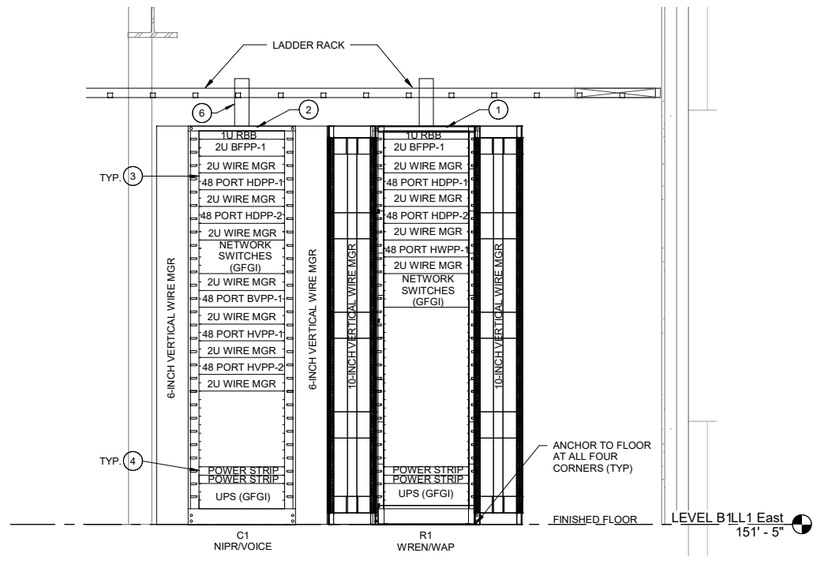
TY601

REVISED RTA SUBMISSION 3/1/2023



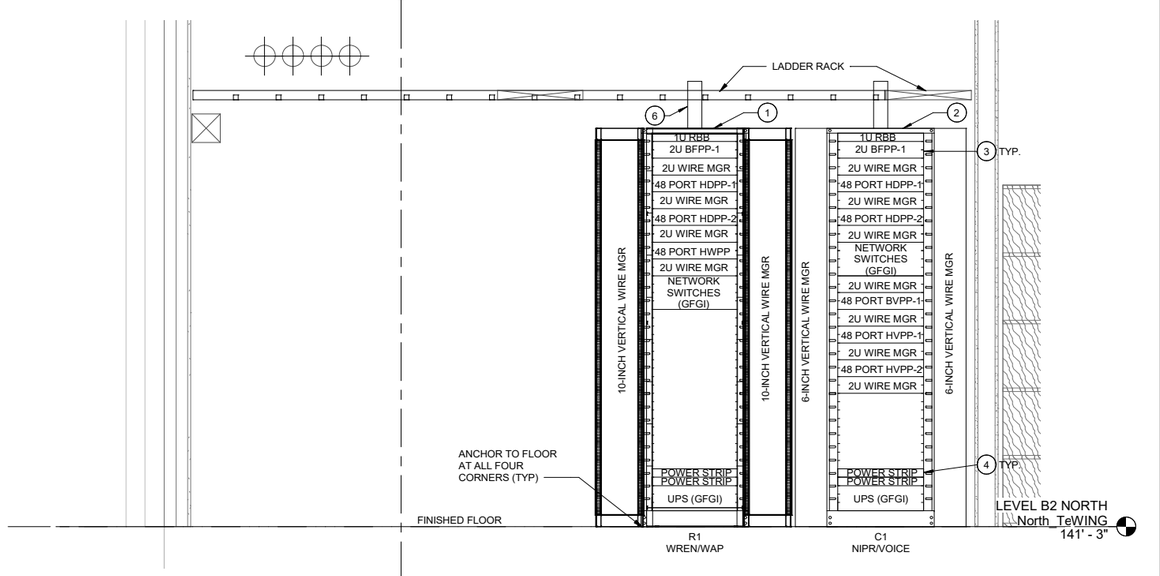
C1 TER B237 - CABINET ELEVATION

3/4" = 1'-0"



A1 TR B172 - RACK ELEVATION

3/4" = 1'-0"



A4 TER B237 - CABINET/RACK ELEVATION

3/4" = 1'-0"

KEYNOTES (#)

1 PROVIDE 84-INCH HIGH (45RU) x 19-INCH WIDE TWO-POST EQUIPMENT RACK WITH (2) 84-INCH HIGH x 10-INCH WIDE x 16.4-INCH DEEP DOUBLE-SIDED, HIGH DENSITY, FINGER TYPE WITH METAL DOORS FOR VERTICAL CABLE MANAGERS.

2 PROVIDE 84-INCH HIGH (45RU) x 36-INCH WIDE x 36-INCH DEEP TELECOM CABINET WITH FRONT AND REAR MESH LOCKABLE DOORS, MINIMUM 6-INCH WIDE INTERNAL VERTICAL WIRE MANAGERS ON BOTH SIDES AND EXHAUST AT TOP.

3 PROVIDE 2RU HORIZONTAL CABLE MANAGEMENT FRONT, BACK, ABOVE, BELOW AND BETWEEN ALL PATCH PANELS WITH COVERS.

4 PROVIDE 20 AMP, 120V, NEMA L5-20P PLUG CORD HORIZONTAL SURGE PROTECTED POWER STRIP WITH 13 OUTLETS AND 208V, NEMA L6-20P PLUG CORD HORIZONTAL SURGE PROTECTED POWER STRIP WITH 13 OUTLETS.

5 PROVIDE THE LATEST VERSION OF AVAYA G450 BRANCH GATEWAYS WITH A CAPABILITY OF SUPPORTING 600 DIGITAL PHONES, INTEGRATED SERVICES DIGITAL NETWORK (ISDN) STATIONS, PRIMARY RATE INTERFACE (PRI) TRUNK INTERFACES, AND VOICE OVER INTERNET PROTOCOL (VOIP). THE G450 BRANCH GATEWAY MUST BE CONNECTED TO THE HOST DIAL CENTRAL OFFICE (DCO), LOCATED IN BUILDING 600, WHICH CONSISTS OF AN AVAYA AURA COMMUNICATION MANAGER (CM) 6 VERSION 6.3.6 VIA THE USMA NETWORK CONNECTION WITH STATIC IP ADDRESSES. THE G450 BRANCH GATEWAYS MUST BE ABLE TO DIAL E911, DEFENSE SWITCHED NETWORK (DSN) NUMBERS, 938 EXCHANGE, 446 NUMBERS, TOLL-FREE NUMBERS, AND LONG-DISTANCE CALLS. PROVIDE AN UNINTERRUPTIBLE POWER SUPPLY (UPS) WITH BATTERY PACKS PROVIDING 3 HRS OF BACK UP FOR THE G450 BRANCH GATEWAYS VOICE EQUIPMENT. PROVIDE ALL REQUIRED ACCESSORIES AND ANCILLARY EQUIPMENT SUCH AS DEDICATED POWERS, HARDWARE, CABLING, 110 TERMINAL BLOCKS, DIGITAL CARDS, MEDIA MODULES, AND RELATED EQUIPMENT FOR A COMPLETE AND FUNCTIONAL TURNKEY TELEPHONE SWITCH. USE VOICE HARDWARE/SOFTWARE THAT IS ON THE UNIFIED CAPABILITIES APPROVED PRODUCTS LIST (UCAPL) THAT IS PUBLISHED BY DISA AT THE TIME OF PROPOSAL AND THAT WILL REMAIN ON THE UCAPL FOR AT LEAST ONE YEAR FROM THE DATE OF PROPOSAL. AN AVAYA PARTNER MUST BE USED TO INSTALL THE G450 BRANCH GATEWAY WITH THE TELEPHONE SYSTEM IN BUILDING 600. COORDINATE ALL WORK WITH THE GOVERNMENT.

6 PROVIDE STANDOFF BRACKETS, BLACK FOR EACH CABINET AND RACK (TYP).

US Army Corps of Engineers ®

MARK	DESCRIPTION	DATE

DESIGNED BY: S. MAHBERRY
DRAWN BY: C. TINKER
CHECKED BY: J. HEITZ
SUBMITTED BY:
ISSUE DATE: 01 MARCH 2023
SOLICITATION NO.: W912DS-18-R-0014
CONTRACT NO.: W912DS-19-C-0031-L
FILE NUMBER:
SIZE: ANSI 'D' FILE NAME:

US ARMY CORPS OF ENGINEERS
LINCOLN HALL
WEST POINT, NEW YORK

JACOBS / EWING COLE A Joint Venture

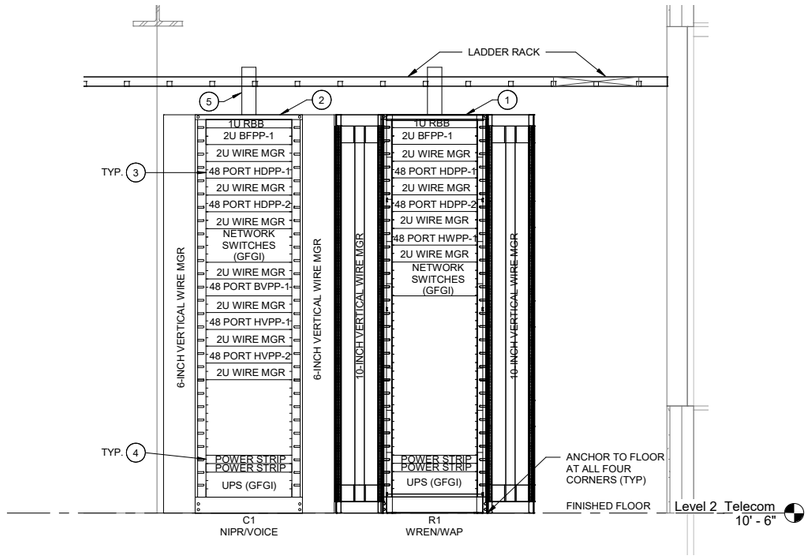
BUILDINGS 605/607 RENOVATION - LINCOLN HALL

RACK ELEVATIONS

SHEET ID

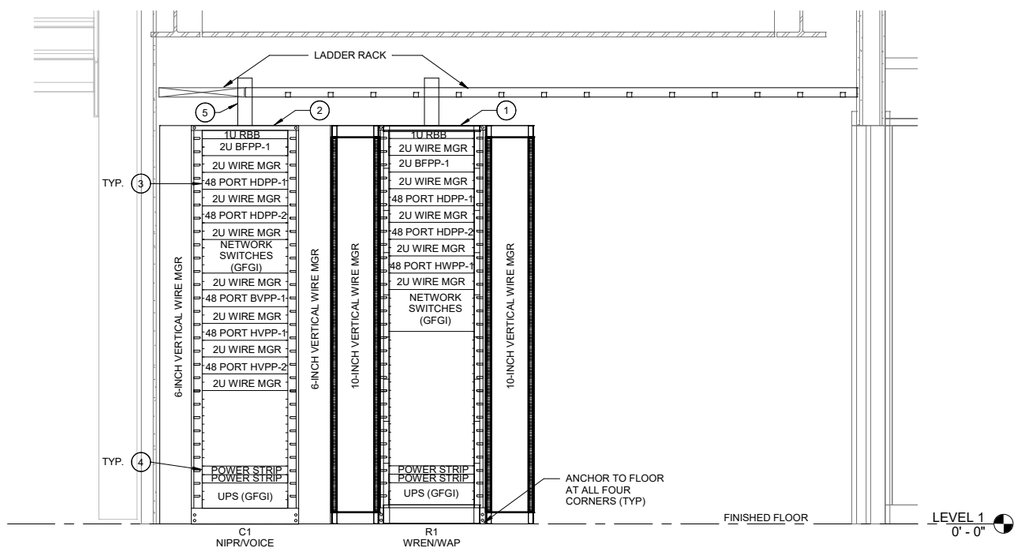
T-201

REVISED RTA SUBMISSION 3/1/2023



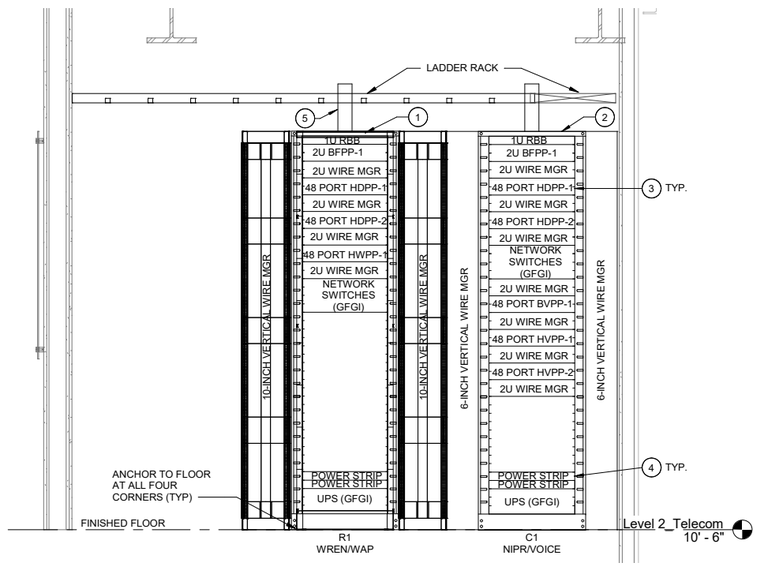
C1 TR 242 - RACK ELEVATION

3/4" = 1'-0"



A1 TR 145 - RACK ELEVATION

3/4" = 1'-0"



A4 TR 219 - RACK ELEVATION

3/4" = 1'-0"

KEYNOTES (#)

1 PROVIDE 84-INCH HIGH (45RU) x 19-INCH WIDE TWO-POST EQUIPMENT RACK WITH (2) 84-INCH HIGH x 10-INCH WIDE x 16.4-INCH DEEP DOUBLE-SIDED, HIGH DENSITY, FINGER TYPE WITH METAL DOORS FOR VERTICAL CABLE MANAGERS.

2 PROVIDE 84-INCH HIGH (45RU) x 36-INCH WIDE x 36-INCH DEEP TELECOM CABINET WITH FRONT AND REAR MESH LOCKABLE DOORS, MINIMUM 6-INCH WIDE INTERNAL VERTICAL WIRE MANAGERS ON BOTH SIDES AND EXHAUST AT TOP.

3 PROVIDE 2RU HORIZONTAL CABLE MANAGEMENT FRONT, BACK, ABOVE, BELOW AND BETWEEN ALL PATCH PANELS WITH COVERS.

4 PROVIDE 20 AMP, 120V, NEMA L5-20P PLUG CORD HORIZONTAL SURGE PROTECTED POWER STRIP WITH 13 OUTLETS AND 208V, NEMA L6-20P PLUG CORD HORIZONTAL SURGE PROTECTED POWER STRIP WITH 13 OUTLETS.

5 PROVIDE STANDOFF BRACKETS, BLACK FOR EACH CABINET AND RACK (TYP).

US Army Corps of Engineers ®

MARK	DESCRIPTION	DATE

DESIGNED BY: S. MANNEBERY
DRAWN BY: C. TINKER
CHECKED BY: J. HEITZ
SUBMITTED BY:
ISSUE DATE: 01 MARCH 2023
SOLICITATION NO.: W912DS-18-R-0014
CONTRACT NO.: W912DS-19-C-0031-L
FILE NUMBER:
SIZE: ANSI 'D'
FILE NAME:

US ARMY CORPS OF ENGINEERS
LINCOLN HALL
WEST POINT, NEW YORK

JACOBS / EWING COLE A Joint Venture

BUILDINGS 605/607 RENOVATION - LINCOLN HALL

RACK ELEVATIONS

SHEET ID

T-202

REVISED RTA SUBMISSION 3/1/2023

KEYNOTES (#)

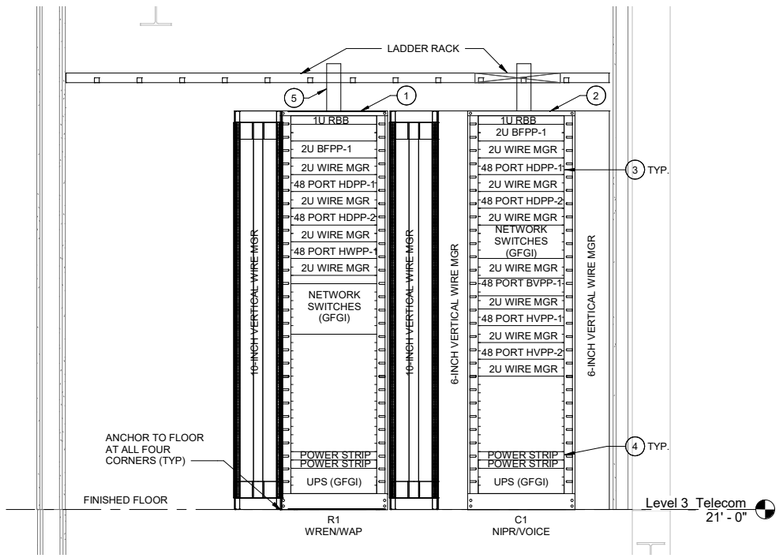
1 PROVIDE 84-INCH HIGH (45RU) x 19-INCH WIDE TWO-POST EQUIPMENT RACK WITH (2) 84-INCH HIGH x 10-INCH WIDE x 16.4-INCH DEEP DOUBLE-SIDED, HIGH DENSITY, FINGER TYPE WITH METAL DOORS FOR VERTICAL CABLE MANAGERS.

2 PROVIDE 84-INCH HIGH (45RU) x 36-INCH WIDE x 36-INCH DEEP TELECOM CABINET WITH FRONT AND REAR MESH LOCKABLE DOORS, MINIMUM 6-INCH WIDE INTERNAL VERTICAL WIRE MANAGERS ON BOTH SIDES AND EXHAUST AT TOP.

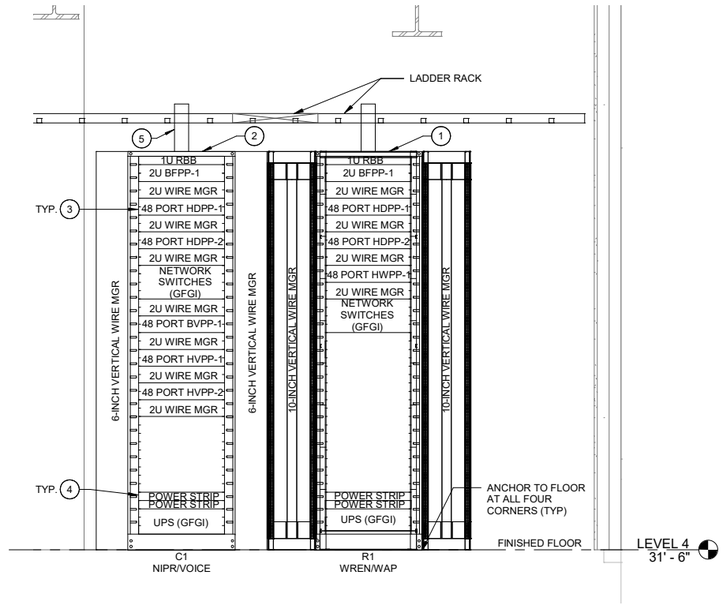
3 PROVIDE 2RU HORIZONTAL CABLE MANAGEMENT FRONT, BACK, ABOVE, BELOW AND BETWEEN ALL PATCH PANELS WITH COVERS.

4 PROVIDE 20 AMP, 120V, NEMA L5-20P PLUG CORD HORIZONTAL SURGE PROTECTED POWER STRIP WITH 13 OUTLETS AND 208V, NEMA L6-20P PLUG CORD HORIZONTAL SURGE PROTECTED POWER STRIP WITH 13 OUTLETS.

5 PROVIDE STANDOFF BRACKETS, BLACK FOR EACH CABINET AND RACK (TYP).



A1 TR 325 - RACK ELEVATION
3/4" = 1'-0"



A3 TR 422 - RACK ELEVATION
3/4" = 1'-0"

US Army Corps of Engineers ®

MARK	DESCRIPTION	DATE

DESIGNED BY: S. VANSLEET
DRAWN BY: C. TINKER
CHECKED BY: J. HEITZ
SUBMITTED BY:
SIZE: ANSI 'D'
FILE NAME:

ISSUE DATE: 01 MARCH 2023
SOLICITATION NO.: W912DS-18-R-0014
CONTRACT NO.: W912DS-19-C-0031-L
FILE NUMBER:

US ARMY CORPS OF ENGINEERS
LINCOLN HALL
WEST POINT, NEW YORK

JACOBS / EWING COLE A Joint Venture

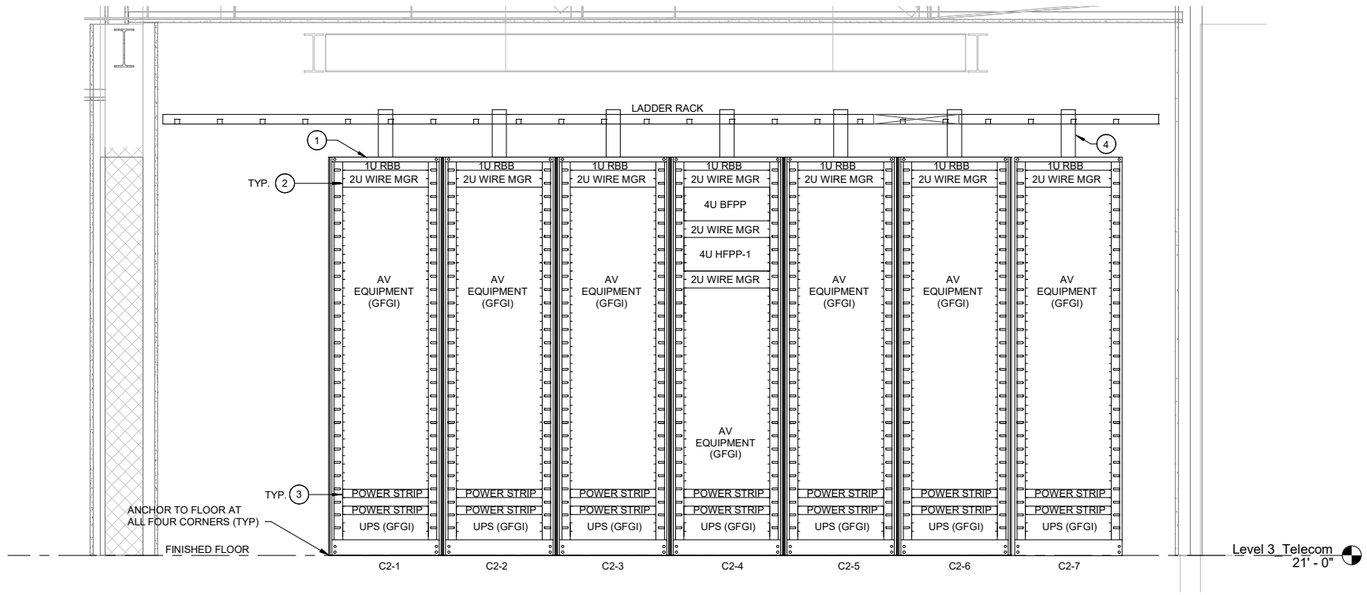
BUILDINGS 605/607 RENOVATION - LINCOLN HALL

RACK ELEVATIONS

SHEET ID

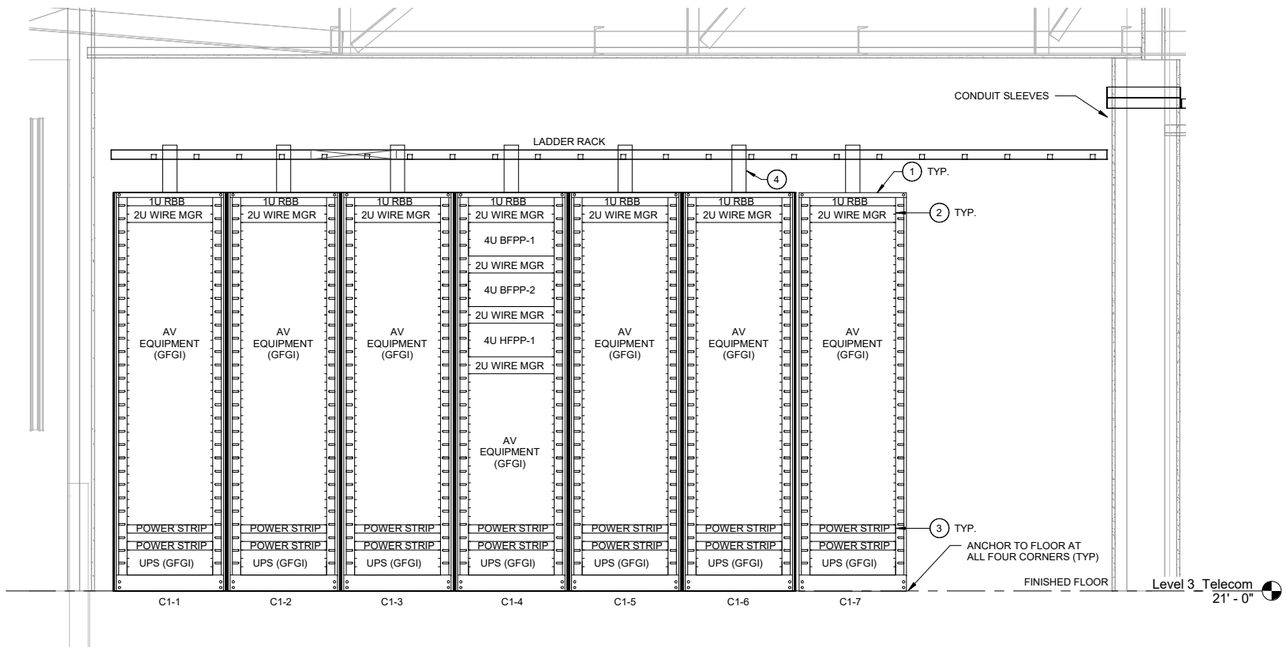
T-203

REVISED RTA SUBMISSION 3/1/2023



C1 PDC 314 - RACK ELEVATION C2

3/4" = 1'-0"



A1 PDC 314 - RACK ELEVATION C1

3/4" = 1'-0"

KEYNOTES (#)

1 PROVIDE 84-INCH HIGH (45RU) x 36-INCH WIDE x 36-INCH DEEP TELECOM CABINET WITH FRONT AND REAR MESH LOCKABLE DOORS. MINIMUM 6-INCH WIDE INTERNAL VERTICAL WIRE MANAGERS ON BOTH SIDES AND EXHAUST AT TOP.

2 PROVIDE 2RU HORIZONTAL CABLE MANAGEMENT FRONT, BACK, ABOVE, BELOW AND BETWEEN ALL PATCH PANELS WITH COVERS.

3 PROVIDE 20 AMP, 120V, NEMA L5-20P PLUG CORD HORIZONTAL SURGE PROTECTED POWER STRIP WITH 13 OUTLETS AND 208V, NEMA L6-20P PLUG CORD HORIZONTAL SURGE PROTECTED POWER STRIP WITH 13 OUTLETS.

4 PROVIDE STANDOFF BRACKETS, BLACK FOR EACH CABINET AND RACK (TYP).

US Army Corps of Engineers ®

MARK	DESCRIPTION	DATE

DESIGNED BY: S. HANEBERRY
DRAWN BY: C. TINKER
CHECKED BY: J. HEITZ
SUBMITTED BY:
SIZE: ANSI 'D'
ISSUE DATE: 01 MARCH 2023
SOLICITATION NO.: W912DS-18-R-0014
CONTRACT NO.: W912DS-19-C-0031-L
FILE NUMBER:
FILE NAME:

US ARMY CORPS OF ENGINEERS
LINCOLN HALL
WEST POINT, NEW YORK

JACOBS / EWING COLE A Joint Venture

BUILDINGS 605/607 RENOVATION - LINCOLN HALL

RACK ELEVATIONS

SHEET ID

T-204

REVISED RTA SUBMISSION 3/1/2023

KEYNOTES (#)

1 PLYWOOD BACKBOARD, FIRE-RETARDANT TREATED, AC GRADE, VOID FREE 48-INCH WIDE x 96-INCH HIGH x 3/4-INCH THICK ON ENTIRE WALL, MOUNTED AT 6-INCHES AFF TO BOTOOM OF PLYWOOD BACKBOARD.

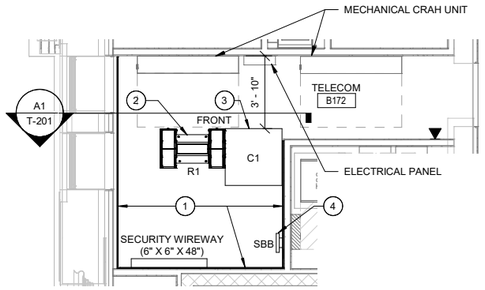
2 TWO-POST EQUIPMENT RACK, REFER TO RACK ELEVATION FOR ADDITIONAL INFORMATION.

3 CABINET, REFER TO CABINET ELEVATION FOR ADDITIONAL INFORMATION.

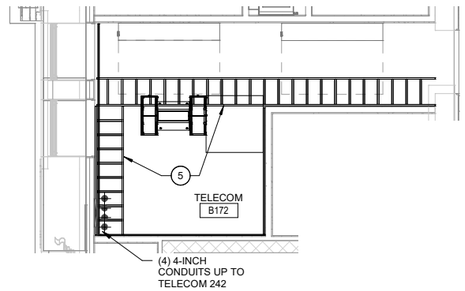
4 SECONDARY BONDING BUSBAR, REFER TO DETAIL ON T-503.

5 18-INCH WIDE LADDER RACK MOUNTED AT 7'-6" AFF.

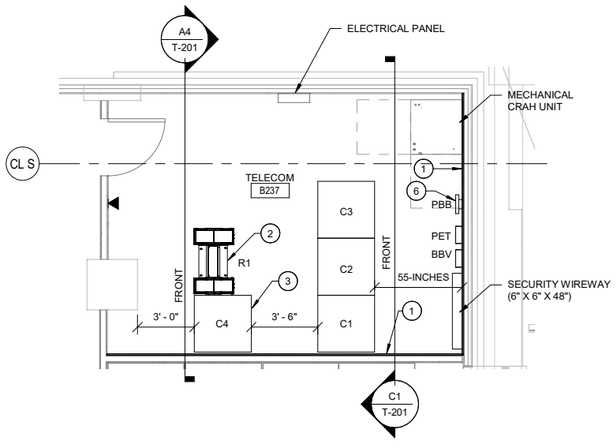
6 PRIMARY BONDING BUSBAR, REFER TO DETAIL ON T-503.



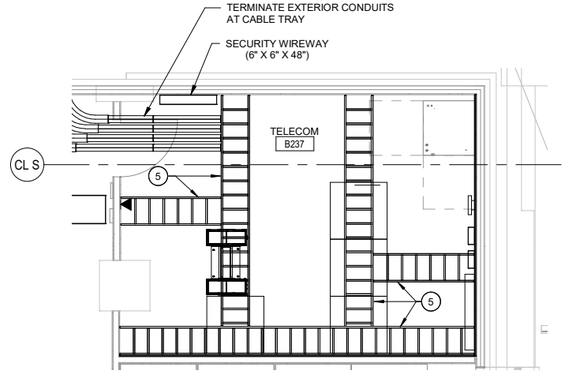
C1 ENLARGED TELECOM B172 - EQUIPMENT PLAN
1/4" = 1'-0"



C3 ENLARGED TELECOM B172 - LADDER RACK PLAN
1/4" = 1'-0"



A1 ENLARGED TELECOM B237 - EQUIPMENT PLAN
1/4" = 1'-0"



A3 ENLARGED TELECOM B237 - LADDER RACK PLAN
1/4" = 1'-0"

0' 4'-2" 8'-4" 16'-8"
SCALE: 1/4" = 1'-0"

N

US Army Corps of Engineers ®

MARK	DESCRIPTION	DATE

DESIGNED BY: S. MANNEBERY
DRAWN BY: C. TINKER
CHECKED BY: J. HEITZ
SUBMITTED BY:
ISSUE DATE: 01 MARCH 2023
SOLICITATION NO.: W912DS-16-R-0014
CONTRACT NO.: W912DS-19-C-0031-L
FILE NUMBER:
SIZE: ANSI 'D'
FILE NAME:

US ARMY CORPS OF ENGINEERS
LINCOLN HALL
WEST POINT, NEW YORK

JACOBS / EWING COLE A Joint Venture

BUILDINGS 605/607 RENOVATION - LINCOLN HALL

ENLARGED TELECOM ROOM PLANS

SHEET ID
T-401

REVISED RTA SUBMISSION 3/1/2023

KEYNOTES (#)

1 PLYWOOD BACKBOARD, FIRE-RETARDANT TREATED, AC GRADE, VOID FREE 48-INCH WIDE x 96-INCH HIGH x 3/4-INCH THICK ON ENTIRE WALL, MOUNTED AT 6-INCHES AFF TO BOTTOM OF PLYWOOD BACKBOARD..

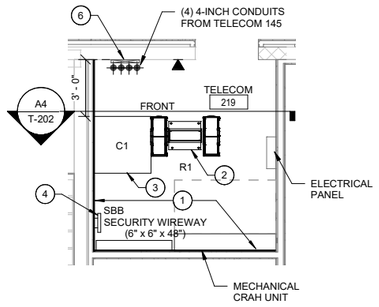
2 TWO-POST EQUIPMENT RACK, REFER TO RACK ELEVATION FOR ADDITIONAL INFORMATION.

3 CABINET, REFER TO CABINET ELEVATION FOR ADDITIONAL INFORMATION.

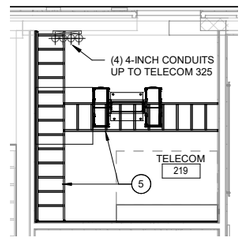
4 SECONDARY BONDING BUSBAR, REFER TO DETAIL ON T-503.

5 18-INCH WIDE LADDER RACK MOUNTED AT 7'-6" AFF.

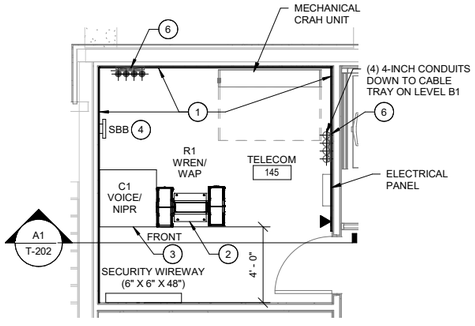
6 18-INCH WIDE VERTICAL LADDER RACK FOR CONDUIT SUPPORT.



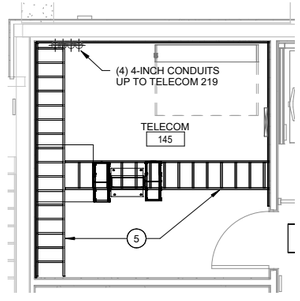
D1 ENLARGED TELECOM 219 - EQUIPMENT PLAN
1/4" = 1'-0"



D3 ENLARGED TELECOM 219 - LADDER RACK PLAN
1/4" = 1'-0"



A1 ENLARGED TELECOM 145 - EQUIPMENT PLAN
1/4" = 1'-0"



A3 ENLARGED TELECOM 145 - LADDER RACK PLAN
1/4" = 1'-0"

0 2' 4' 8'
SCALE: 1/4" = 1'-0"

N

US Army Corps of Engineers ®

MARK	DESCRIPTION	DATE

DESIGNED BY: S. MANNEBERY
DRAWN BY: C. TINKER
CHECKED BY: J. HEITZ
SUBMITTED BY:
ISSUE DATE: 01 MARCH 2023
SOLICITATION NO.: W912DS-18-R-0014
CONTRACT NO.: W912DS-19-C-0031-L
FILE NUMBER:
SIZE: ANSI 'D'
FILE NAME:

US ARMY CORPS OF ENGINEERS
LINCOLN HALL
WEST POINT, NEW YORK

JACOBS / EWING COLE A Joint Venture

BUILDINGS 605/607 RENOVATION - LINCOLN HALL

ENLARGED TELECOM ROOM PLANS

SHEET ID
T-402

REVISED RTA SUBMISSION 3/1/2023

KEYNOTES (#)

1 PLYWOOD BACKBOARD, FIRE-RETARDANT TREATED, VOID FREE AC GRADE, 48-INCH WIDE x 96-INCH HIGH x 3/4-INCH THICK ON ENTIRE WALL, MOUNTED AT 6-INCHES AFF TO BOTTOM OF PLYWOOD BACKBOARD.

2 TWO-POST EQUIPMENT RACK, REFER TO RACK ELEVATION FOR ADDITIONAL INFORMATION.

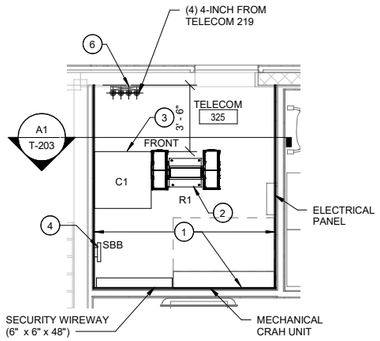
3 CABINET, REFER TO CABINET ELEVATION FOR ADDITIONAL INFORMATION.

4 SECONDARY BONDING BUSBAR, REFER TO DETAIL ON T-503.

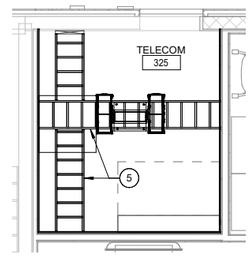
5 18-INCH WIDE LADDER RACK MOUNTED AT 7'-6" AFF.

6 18-INCH WIDE VERTICAL LADDER RACK FOR CONDUIT SUPPORT.

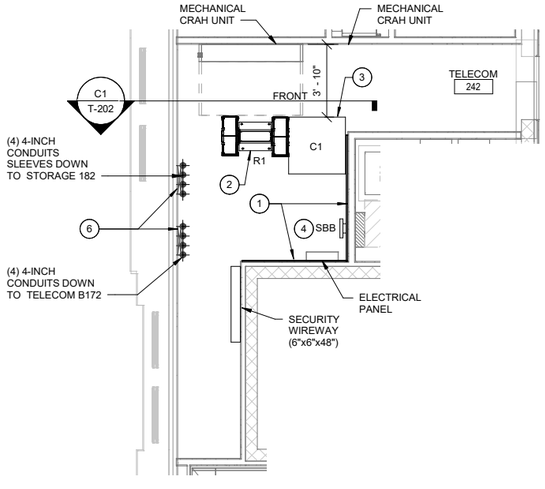
7 (3) 4-INCH CONDUIT SLEEVES.



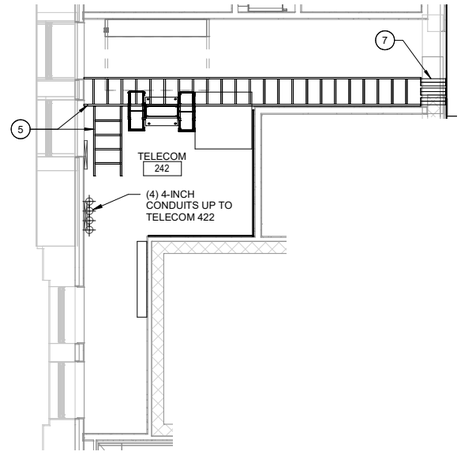
C1 ENLARGED TELECOM 325 - EQUIPMENT PLAN
1/4" = 1'-0"



C3 ENLARGED TELECOM 325 - LADDER RACK PLAN
1/4" = 1'-0"



A1 ENLARGED TELECOM 242 - EQUIPMENT PLAN
1/4" = 1'-0"



A3 ENLARGED TELECOM 242 - LADDER RACK PLAN
1/4" = 1'-0"

0 2' 4' 8'
SCALE: 1/4" = 1'-0"

N

US Army Corps of Engineers ®

MARK	DESCRIPTION	DATE

DESIGNED BY: S. MANBERRY
DRAWN BY: C. TINKER
CHECKED BY: J. HEITZ
SUBMITTED BY:
ISSUE DATE: 01 MARCH 2023
SOLICITATION NO.: W912DS-18-R-0014
CONTRACT NO.: W912DS-19-C-0031-L
FILE NUMBER:
SIZE: ANSI 'D'
FILE NAME:

US ARMY CORPS OF ENGINEERS
LINCOLN HALL
WEST POINT, NEW YORK

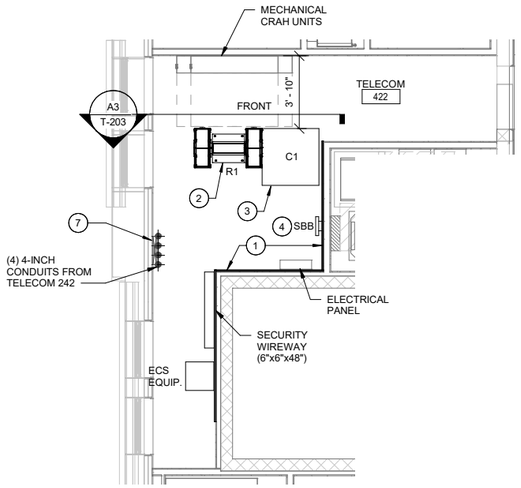
JACOBS / EWING COLE A Joint Venture

BUILDINGS 605/607 RENOVATION - LINCOLN HALL

ENLARGED TELECOM ROOM PLANS

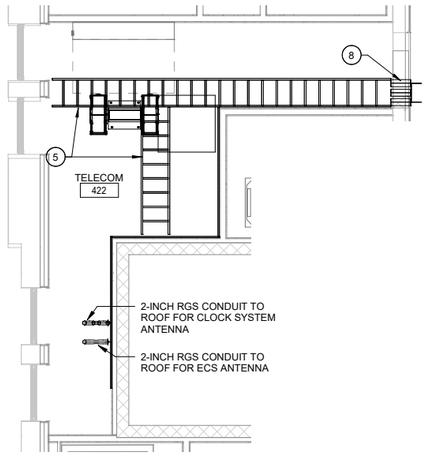
SHEET ID
T-403

REVISED RTA SUBMISSION 3/1/2023



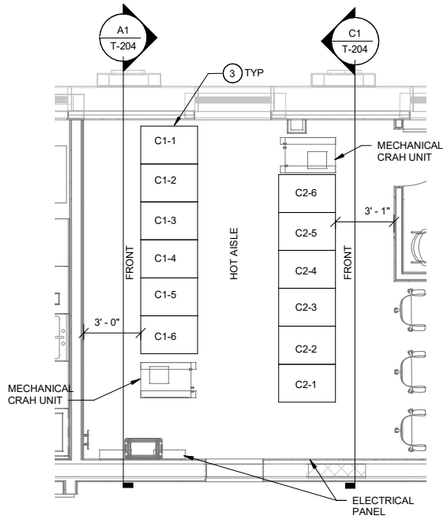
C1 ENLARGED TELECOM 422 - EQUIPMENT PLAN

1/4" = 1'-0"



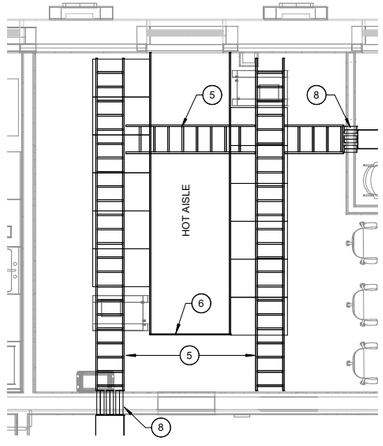
C2 ENLARGED TELECOM 422 - LADDER RACK PLAN

1/4" = 1'-0"



A1 ENLARGED PDC 314 - EQUIPMENT PLAN

1/4" = 1'-0"



A2 ENLARGED PDC 314 - LADDER RACK PLAN

1/4" = 1'-0"

KEYNOTES (#)

1. PLYWOOD BACKBOARD, FIRE-RETARDANT TREATED, AC GRADE VOID FREE, 48-INCH WIDE x 96-INCH HIGH x 3/4-INCH THICK ON ENTIRE WALL, MOUNTED AT 6-INCHES AFFTO BOTTOM OF PLYWOOD BACKBOARD.
2. TWO-POST EQUIPMENT RACK, REFER TO RACK ELEVATION FOR ADDITIONAL INFORMATION.
3. CABINET, REFER TO CABINET ELEVATION FOR ADDITIONAL INFORMATION.
4. SECONDARY BONDING BUSBAR, REFER TO DETAIL ON T-503.
5. 18-INCH WIDE LADDER RACK MOUNTED AT 7'-6" AFF.
6. HOT AISLE CONTAINMENT SYSTEM CONSISTING OF 8-INCH WIDE CROSS-LINK POLMER WITH 25% OVERLAP AND THREADED ROD SUPPORTED UNIVERSAL CEILING HANGAR WITH PINS. MOUNT STRIPS FROM CEILING TO TOP OF CABINETS OVER TWO ROWS AND HOT AISLE.
7. 18-INCH WIDE VERTICAL LADDER RACK FOR CONDUIT SUPPORT.
8. (3) 4-INCH CONDUIT SLEEVES.

0 4' 8' 16'

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

N

US Army Corps of Engineers ®

MARK	DESCRIPTION	DATE

DESIGNED BY: S. MANNERY
DRAWN BY: C. TINKER
CHECKED BY: J. HEITZ
SUBMITTED BY:
ISSUE DATE: 01 MARCH 2023
SOLICITATION NO.: W912DS-18-R-0014
CONTRACT NO.: W912DS-19-C-0031-L
FILE NUMBER:
SIZE: ANSI 'D'
FILE NAME:

US ARMY CORPS OF ENGINEERS
LINCOLN HALL
WEST POINT, NEW YORK

JACOBS / EWING COLE A Joint Venture

BUILDINGS 605/607 RENOVATION - LINCOLN HALL

ENLARGED TELECOM ROOM PLANS

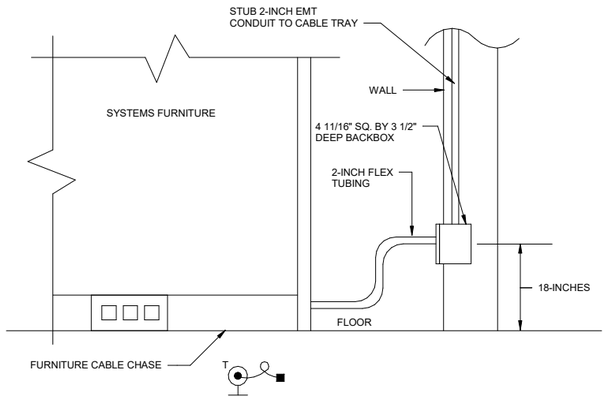
SHEET ID

T-404

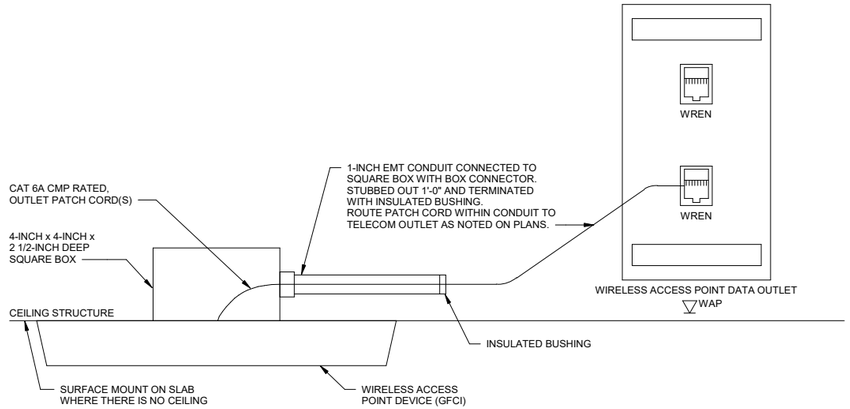
REVISED RTA SUBMISSION 3/1/2023

GENERAL NOTES

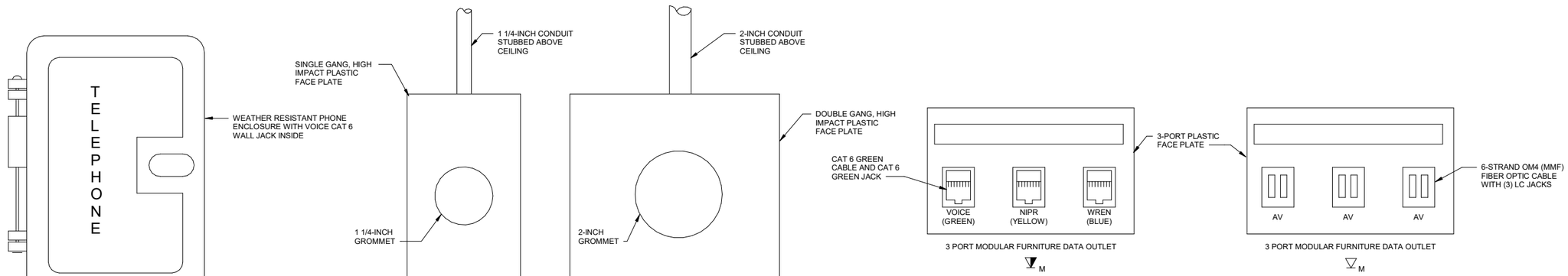
1. TERMINATE ALL COPPER CABLES (VOICE AND DATA) ON JACKS WITH T-568A PIN-OUT.



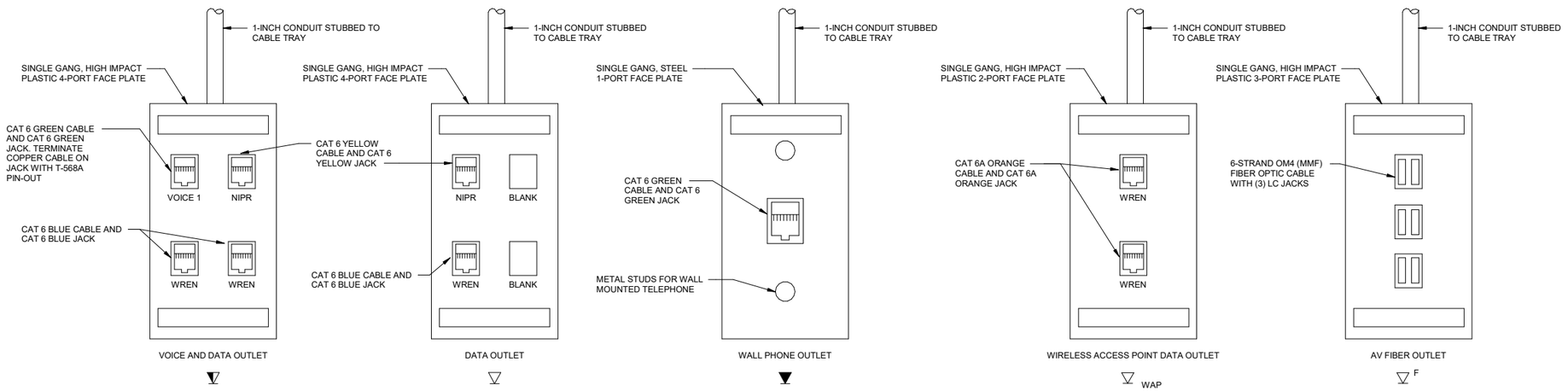
D1 MODULAR SYSTEMS FURNITURE OUTLET INSTALLATION
NOT TO SCALE



D3 WIRELESS ACCESS POINT MOUNTED TO CEILING
NOT TO SCALE



B4 MODULAR FURNITURE OUTLET
NOT TO SCALE



A1 VOICE AND DATA WALL OUTLET DETAILS
NOT TO SCALE

US Army Corps of Engineers ®

MARK	DESCRIPTION	DATE

ISSUE DATE:
01 MARCH 2023
SOLICITATION NO.:
W912DS-18-R-0014
CONTRACT NO.:
W912DS-19-C-0031-L
FILE NUMBER:

DESIGNED BY:
S. HANSBERRY
DRAWN BY:
C. TINKER
CHECKED BY:
J. HEITZ
SUBMITTED BY:

SIZE: ANSI 'D'
FILE NAME:

US ARMY CORPS OF ENGINEERS
LINCOLN HALL
WEST POINT, NEW YORK

JACOBS / EWING COLE A Joint Venture

BUILDINGS 605/607 RENOVATION - LINCOLN HALL

COMMUNICATIONS OUTLET DETAILS

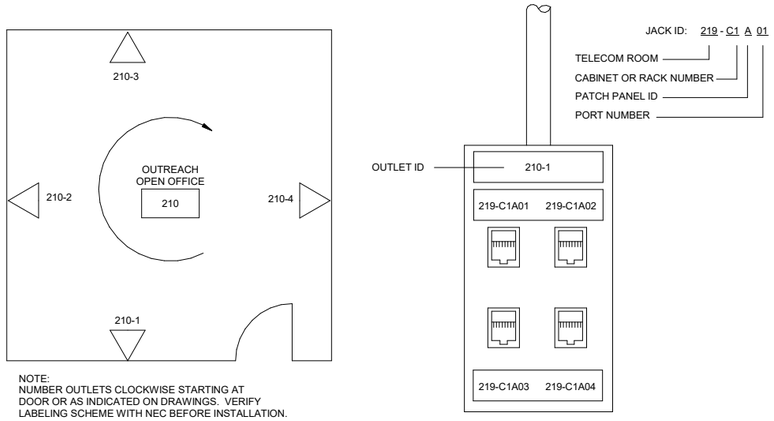
SHEET ID

T-501

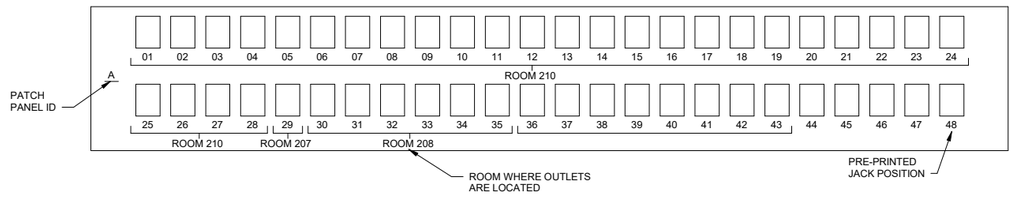
REVISED RTA SUBMISSION 3/1/2023

GENERAL NOTES

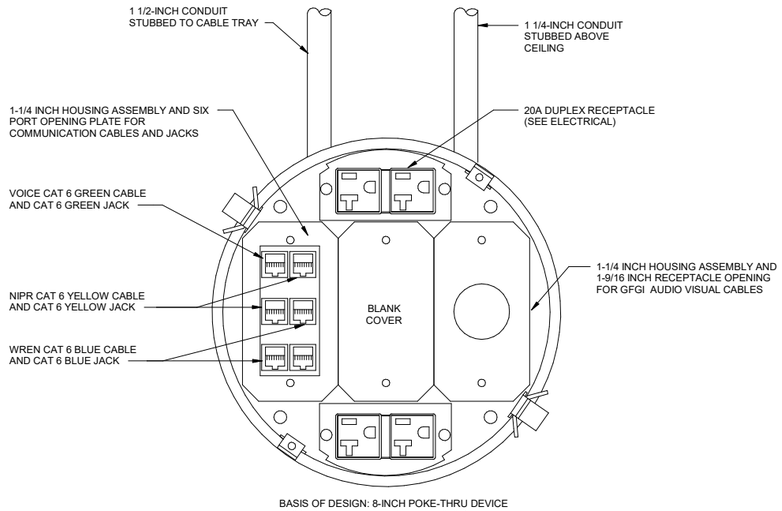
1. TERMINATE ALL COPPER CABLES (VOICE AND DATA) ON JACKS WITH T-568A PIN-OUT.

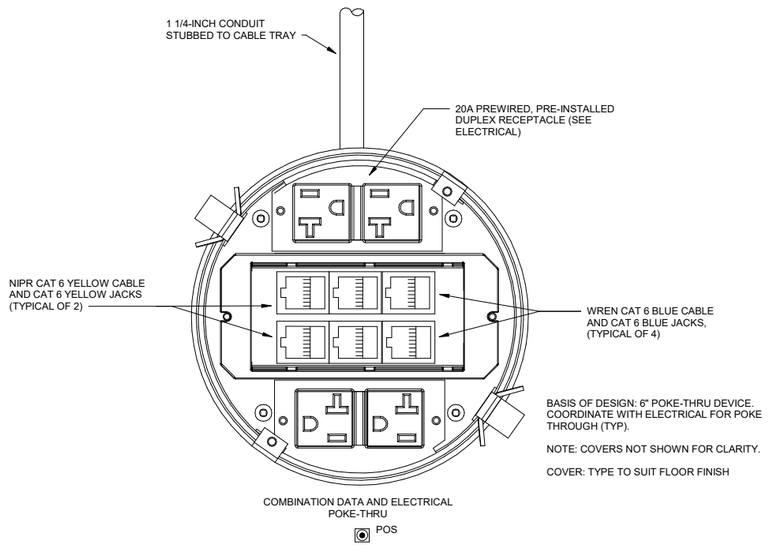


C1 OUTLET LABELING
NOT TO SCALE



C3 PATCH PANEL LABELING
NOT TO SCALE





A1 VOICE, DATA, AV POKE-THRU DETAILS
NOT TO SCALE

US Army Corps of Engineers ®

MARK	DESCRIPTION	DATE

DESIGNED BY: S. SAMBERRY
DRAWN BY: C. TINKER
CHECKED BY: J. HEITZ
SUBMITTED BY:
ISSUE DATE: 01 MARCH 2023
SOLICITATION NO.: W912DS-18-R-0014
CONTRACT NO.: W912DS-19-C-0031-L
FILE NUMBER:
SIZE: ANSI 'D'
FILE NAME:

US ARMY CORPS OF ENGINEERS
LINCOLN HALL
WEST POINT, NEW YORK

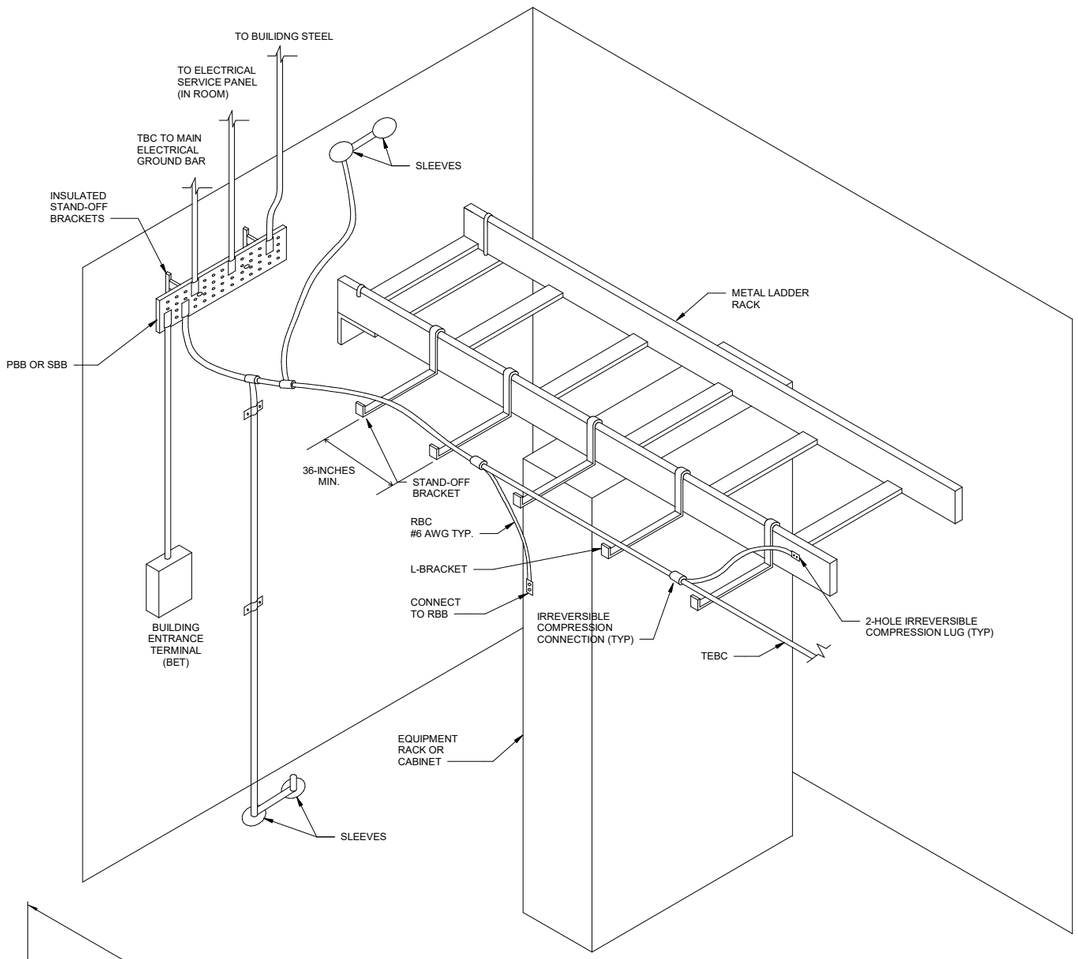
JACOBS / EWING COLE A Joint Venture

BUILDINGS 605/607 RENOVATION - LINCOLN HALL

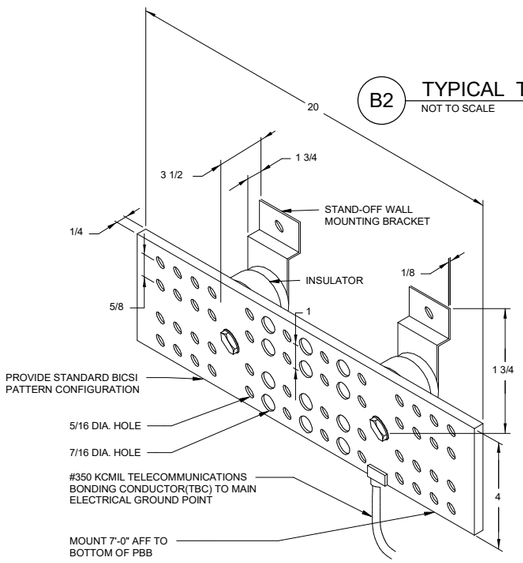
COMMUNICATIONS DETAILS

SHEET ID
T-502

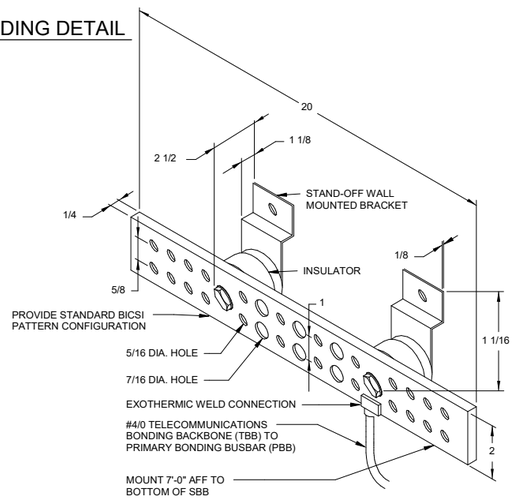
REVISED RTA SUBMISSION 3/1/2023



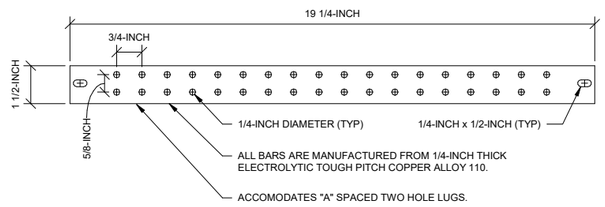
B2 TYPICAL TELECOM ROOM GROUNDING DETAIL
NOT TO SCALE



A1 PRIMARY BONDING BUSBAR (PBB) DETAIL
NOT TO SCALE



A2 SECONDARY BONDING BUSBAR (SBB) DETAIL
NOT TO SCALE



A4 RACK BONDING BUSBAR (RBB) DETAIL
NOT TO SCALE

GENERAL NOTES

1. PBB'S MUST MEET ANSI / TIA-607-D 6.2.1.
2. SBB'S MUST MEET ANSI / TIA-607-D 6.2.2.
3. RBB'S MUST MEET ANSI / TIA-607-D 6.2.3.
4. UNLESS OTHERWISE NOTED, SIZE TBB / BBC CONDUCTORS TO ANSI / TIA-607-D TABLE 1 THESE CONDUCTORS MUST BE THE SAME SIZE WHEN CONNECTED.
5. BONDING CONNECTIONS ARE EITHER LISTED EXOTHERMIC WELDS, LISTED IRREVERSIBLE COMPRESSION CONNECTORS, OR LISTED MECHANICAL CONNECTORS. CONNECTORS, LUGS, AND COMPONENTS MUST BE LISTED FOR THE PURPOSE.
6. VERIFY TELECOMMUNICATIONS GROUND REFERENCE POINT WITH THE GOVERNMENT, PRIOR TO TESTING GROUND RESISTANCE.

US Army Corps of Engineers ®

MARK	DESCRIPTION	DATE

ISSUE DATE:
01 MARCH 2023
SOLICITATION NO.:
W912DS-18-R-0014
CONTRACT NO.:
W912DS-19-C-0031-L
FILE NUMBER:

DESIGNED BY:
S. VANSLEET
DRAWN BY:
C. TINKER
CHECKED BY:
J. HEITZ
SUBMITTED BY:
SIZE:
ANSI 'D'
FILE NAME:

US ARMY CORPS OF ENGINEERS
LINCOLN HALL
WEST POINT, NEW YORK

JACOBS / EWING COLE A Joint Venture

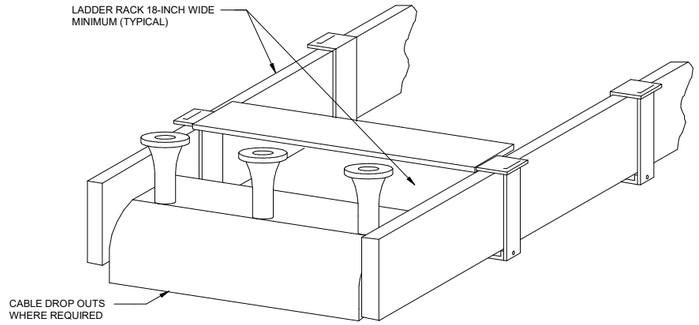
BUILDINGS 605/607 RENOVATION - LINCOLN HALL

GROUNDING AND BONDING DETAILS

SHEET ID

T-503

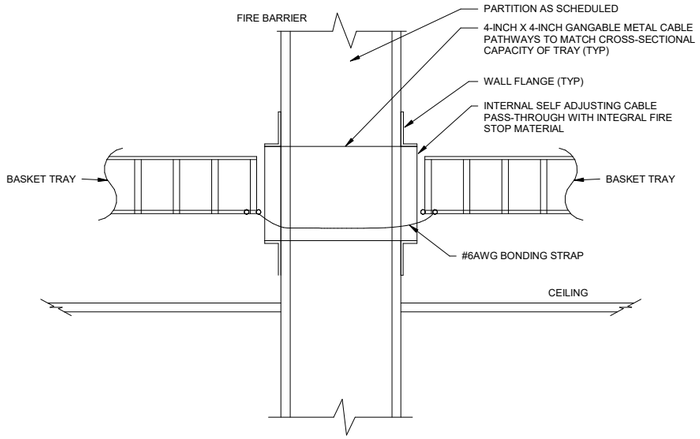
REVISED RTA SUBMISSION 3/1/2023



NOTES:

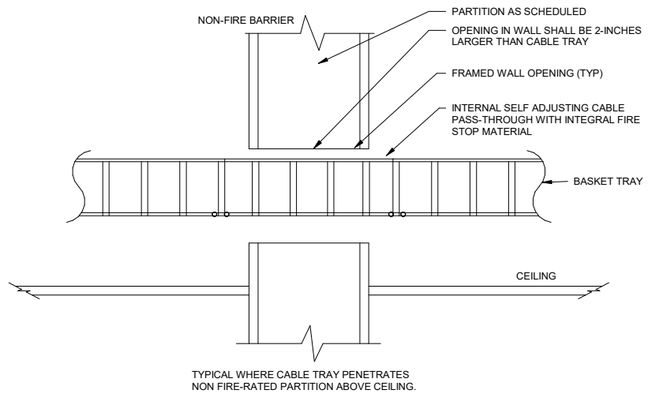
LADDER RACK CABLE TRAY DETAIL AT COMMUNICATION ROOMS ONLY

D1 LADDER CABLE TRAY DETAIL
NOT TO SCALE



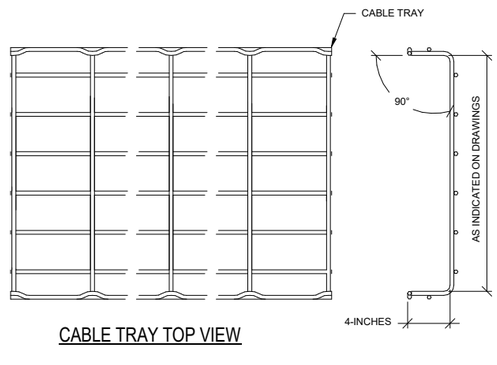
TYPICAL WHERE CABLE TRAY PENETRATES FIRE-RATED PARTITION ABOVE CEILING.

D3 STRAIGHT CABLE TRAY WALL DETAIL
NOT TO SCALE

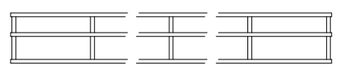


TYPICAL WHERE CABLE TRAY PENETRATES NON FIRE-RATED PARTITION ABOVE CEILING.

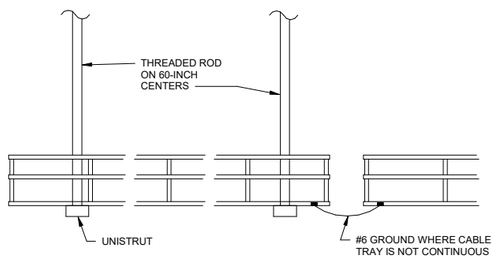
C1 STRAIGHT CABLE TRAY PASS-THRU WALL DETAIL
NOT TO SCALE



CABLE TRAY TOP VIEW

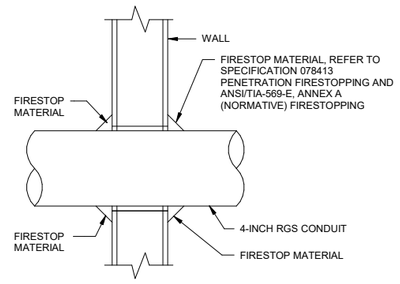


CABLE TRAY SIDE VIEW

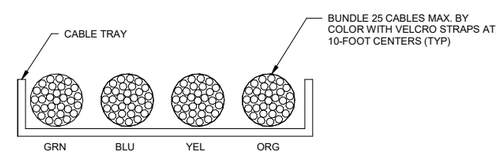


MOUNTING AND BONDING DETAIL

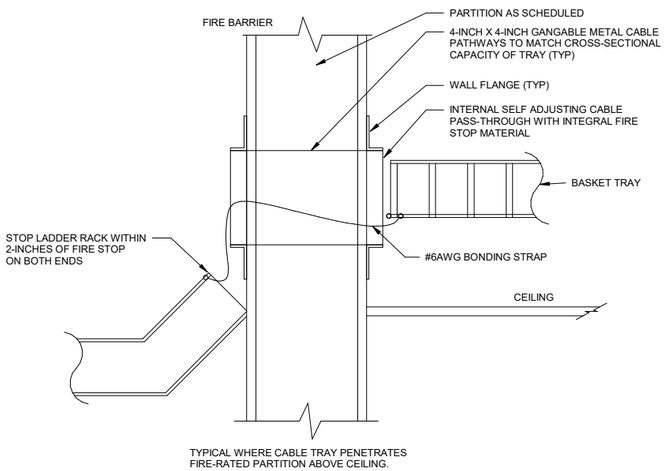
A3 TYPICAL CABLE TRAY DETAILS
NOT TO SCALE



B4 HORIZONTAL CONDUIT PENETRATION
NOT TO SCALE



A4 CABLE TRAY CABLE MANGEMENT DETAIL
NOT TO SCALE



TYPICAL WHERE CABLE TRAY PENETRATES FIRE-RATED PARTITION ABOVE CEILING.

A1 ANGLED CABLE TRAY WALL PENETRATION DETAIL
NOT TO SCALE

US Army Corps of Engineers ®

MARK	DESCRIPTION	DATE

DESIGNED BY: S. MANSBERY
DRAWN BY: C. TINKER
CHECKED BY: J. HEITZ
SUBMITTED BY:
ISSUE DATE: 01 MARCH 2023
SOLICITATION NO.: W912DS-18-R-0014
CONTRACT NO.: W912DS-19-C-0031-L
FILE NUMBER:
SIZE: ANSI 'D'
FILE NAME:

US ARMY CORPS OF ENGINEERS
LINCOLN HALL
WEST POINT, NEW YORK

JACOBS / EWING COLE A Joint Venture

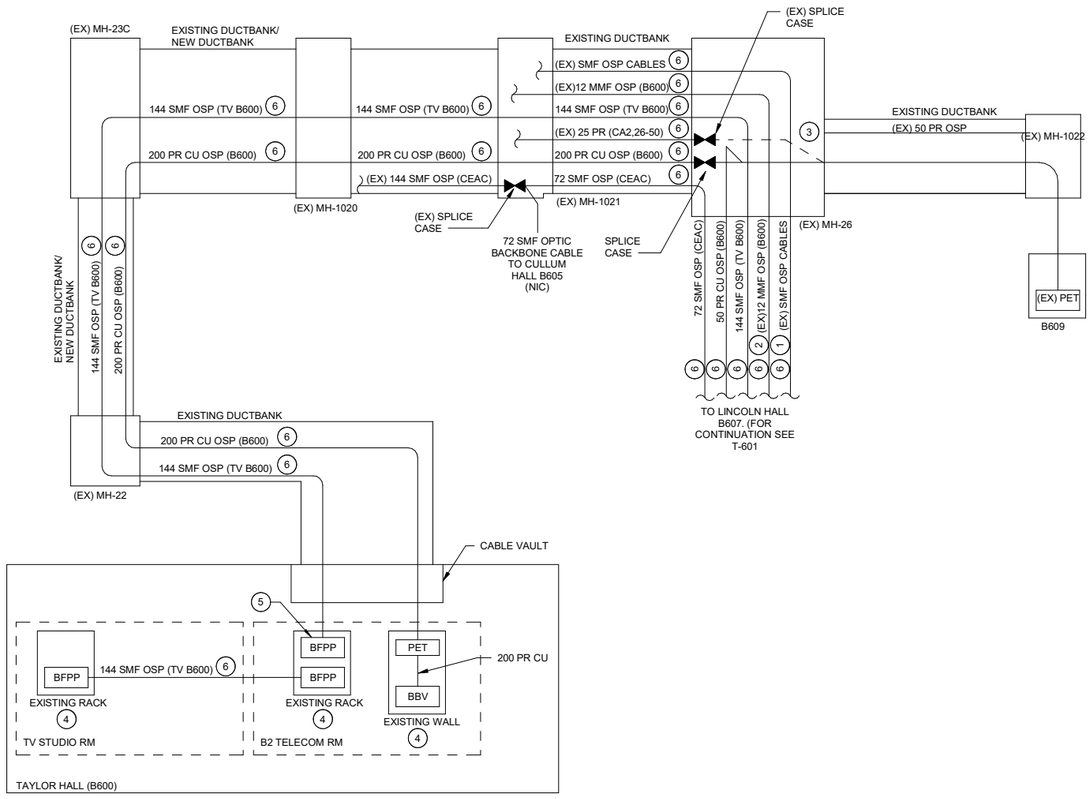
BUILDINGS 605/607 RENOVATION - LINCOLN HALL

CABLE TRAY DETAILS

SHEET ID

T-504

REVISED RTA SUBMISSION 3/1/2023



A1 VOICE AND DATA OSP ONE-LINE DIAGRAM
NOT TO SCALE

GENERAL NOTES

1. TAG COPPER AND FIBER OPTIC CABLES IN EACH MANHOLE AND AT TERMINATION POINTS BY USING YELLOW, SELF-LAMINATING BLANK MARKER TAG, 3.5"X2", WITH NO LEGEND. THE TAG MUST BE DURABLE FOR INDOOR AND OUTDOOR ENVIRONMENTS. ATTACH THE TAG TO THE COPPER AND FIBER OPTIC CABLES WITH TWO ZIP TIES ONE AT EACH END. LABEL THE TAG USING A LABEL MAKER. LABEL NEW 200-PR COPPER CABLE OSP AS CA607, 1-200.

KEYNOTES (#)

1 PULL EXISTING SINGLEMODE FIBER OPTIC CABLES BACK INTO MH-26 DURING CONSTRUCTION AND THEN PULL BACK INTO THE TER, TERMINATE, LABEL AND TEST AS FOLLOWS

A. 12 SMF (FOC 02, 13-24)
B. 24 SMF (FOC 600D2, 1-24)
C. 96 SMF (FOC 600/607, 1-96)
D. 24 SMF (CELLULAR DAS)

VERIFY EXISTING CABLE LENGTHS AND PROVIDE ALL NECESSARY EQUIPMENT REQUIRED TO RE-INSTALL EXISTING CABLES FROM MANHOLE MH-26 TO NEW COMMUNICATIONS ROOM. IF CABLES ARE NOT LONG ENOUGH THEN NEW OSP COPPER OR FIBER CABLES WILL BE SPLICED TO EXISTING CABLES IN MANHOLE 26. USE SPLICE ENCLOSURE FOR COPPER CABLES WITH CONNECTOR MODULES AND SPLICE ENCLOSURE FOR FIBER OPTIC CABLES.

2 EXISTING MULTIMODE FIBER OPTIC CABLE, 12 MMF (FOC 600, 1-12) MUST BE PULLED BACK INTO MH-26 DURING CONSTRUCTION AND THEN PULLED BACK INTO THE TER, TERMINATED, LABELED AND TESTED.

3 PROVIDE NEW 200-PR COPPER CABLE FROM B600 TO MH-26 PRIOR TO DEMOLITION OF LINCOLN HALL. SPLICE NEW 200-PR TO EXISTING 50-PR COPPER CABLE TO B609 (COUNTS 151-200). CLEAR AND CAP COUNTS 1-100 IN SPLICE FOR FUTURE USE. CONTRACTOR MUST COORDINATE WITH USMA NETWORK ENTERPRISE CENTER (NEC) TO TRANSFER ALL WORKING LINES TO THE NEW COPPER IN B609.

4 COORDINATE LOCATION OF EXISTING RACKS AND NEW EQUIPMENT WITH NEC.

5 TERMINATE 144 SMF TV FIBER CABLE ON SC/APC PIGTAIL SPLICE CASSETTES.

6 WORK DEPICTED ON THIS DETAIL AND PLANS FOR THE OSP FIBER AND COPPER CABLES, PATCH PANELS, TESTING AND LABELING MUST BE INCLUDED IN CLIN 0010 PRINCING SCHEDULE.

US Army Corps of Engineers ®

MARK	DESCRIPTION	DATE

DESIGNED BY: S. SANBERRY
DRAWN BY: C. TINKER
CHECKED BY: J. HEITZ
SUBMITTED BY:
ISSUE DATE: 01 MARCH 2023
SOLICITATION NO.: W912DS-18-R-0014
CONTRACT NO.: W912DS-19-C-0031-L
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US ARMY CORPS OF ENGINEERS
LINCOLN HALL
WEST POINT, NEW YORK

JACOBS / EWING COLE A Joint Venture

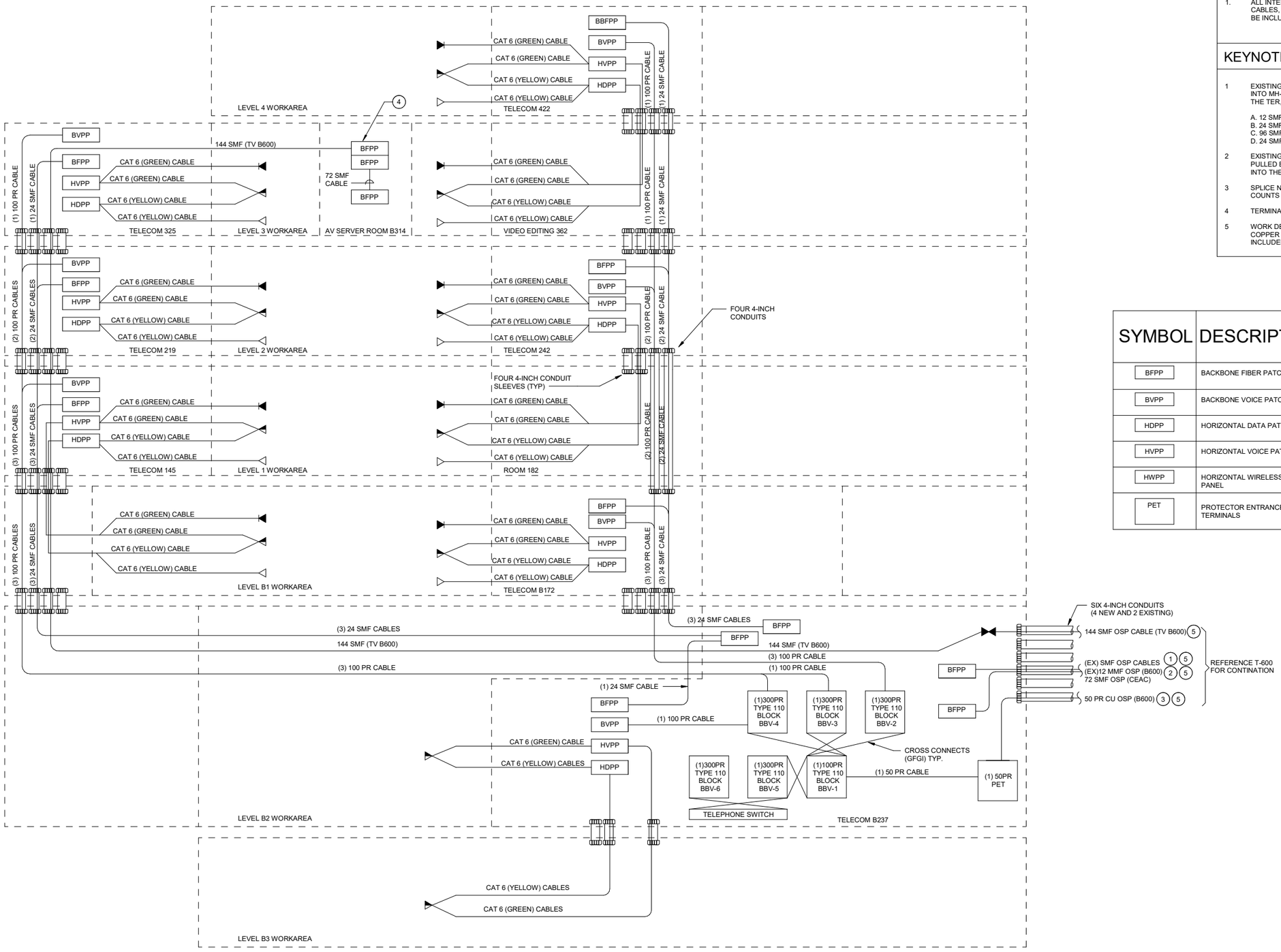
BUILDINGS 605/607 RENOVATION - LINCOLN HALL

VOICE AND DATA OSP ONE-LINE DIAGRAM

SHEET ID

T-600

REVISED RTA SUBMISSION 3/1/2023



A1 NIPR VOICE AND DATA ONE-LINE DIAGRAM
NOT TO SCALE

GENERAL NOTES

1. ALL INTERIOR PASSIVE BACKBONE AND HORIZONTAL FIBER AND COPPER CABLES, PATCH PANELS, JACKS, FACEPLATES, TESTING AND LABELING MUST BE INCLUDED IN CLIN 0012 PRICING SCHEDULE.

KEYNOTES

1 EXISTING SINGLEMODE FIBER OPTIC CABLES MUST BE PULLED BACK INTO MH-26 DURING CONSTRUCTION AND THEN PULL BACK INTO THE TER, TERMINATE, LABEL AND TEST AS FOLLOWS

A. 12 SMF (FOC 02, 13-24)
B. 24 SMF (FOC 600D2, 1-24)
C. 96 SMF (FOC 600/607, 1-96)
D. 24 SMF (CELLULAR DAS)

2 EXISTING MULTIMODE FIBER OPTIC CABLE, 12 MMF (FOC 600, 1-12) MUST BE PULLED BACK INTO MH-26 DURING CONSTRUCTION AND THEN PULLED BACK INTO THE TER, TERMINATED, LABELED AND TESTED.

3 SPLICE NEW 50-PAIR CU CABLE TO NEW 200-PAIR CU CABLE IN MH-26, COUNTS 101-150.

4 TERMINATE 144 SMF TV FIBER CABLE ON SC/APC PIGTAIL SPLICE CASSETTES.

5 WORK DEPICTED ON THIS DETAIL AND PLANS FOR THE OSP FIBER AND COPPER CABLES, PATCH PANELS, TESTING AND LABELING MUST BE INCLUDED IN CLIN 0010 PRINCING SCHEDULE.

SYMBOL	DESCRIPTION	EQUIPMENT INFORMATION
BFPP	BACKBONE FIBER PATCH PANEL	2U OR 4U FIBER PATCH PANEL WITH LC PIGTAILED FUSION SPLICE CASSETTES AS REQUIRED
BVPP	BACKBONE VOICE PATCH PANEL	48 PORT CAT 6 PATCH PANEL. TERMINATE ONE PAIR PER PORT (PINS 4 AND 5) EXCEPT PORT 48 TERMINATE 2-PAIR
HDPP	HORIZONTAL DATA PATCH PANEL	48-PORT UNLOADED PATCH PANEL WITH CAT 6, RJ-45 YELLOW JACKS
HVPP	HORIZONTAL VOICE PATCH PANEL	48-PORT UNLOADED PATCH PANEL WITH CAT 6, RJ-45 GREEN JACKS
HWPP	HORIZONTAL WIRELESS PATCH PANEL	48-PORT UNLOADED PATCH PANEL WITH CAT 6A, RJ-45 ORANGE JACKS
PET	PROTECTOR ENTRANCE TERMINALS	100-PAIR PROTECTION ENTRANCE TERMINAL (PET) WITH 110 CONNECTORS INPUT/OUTPUT AND (100) 5-PIN GAS TUBES

US Army Corps of Engineers ®

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WEST POINT, NEW YORK

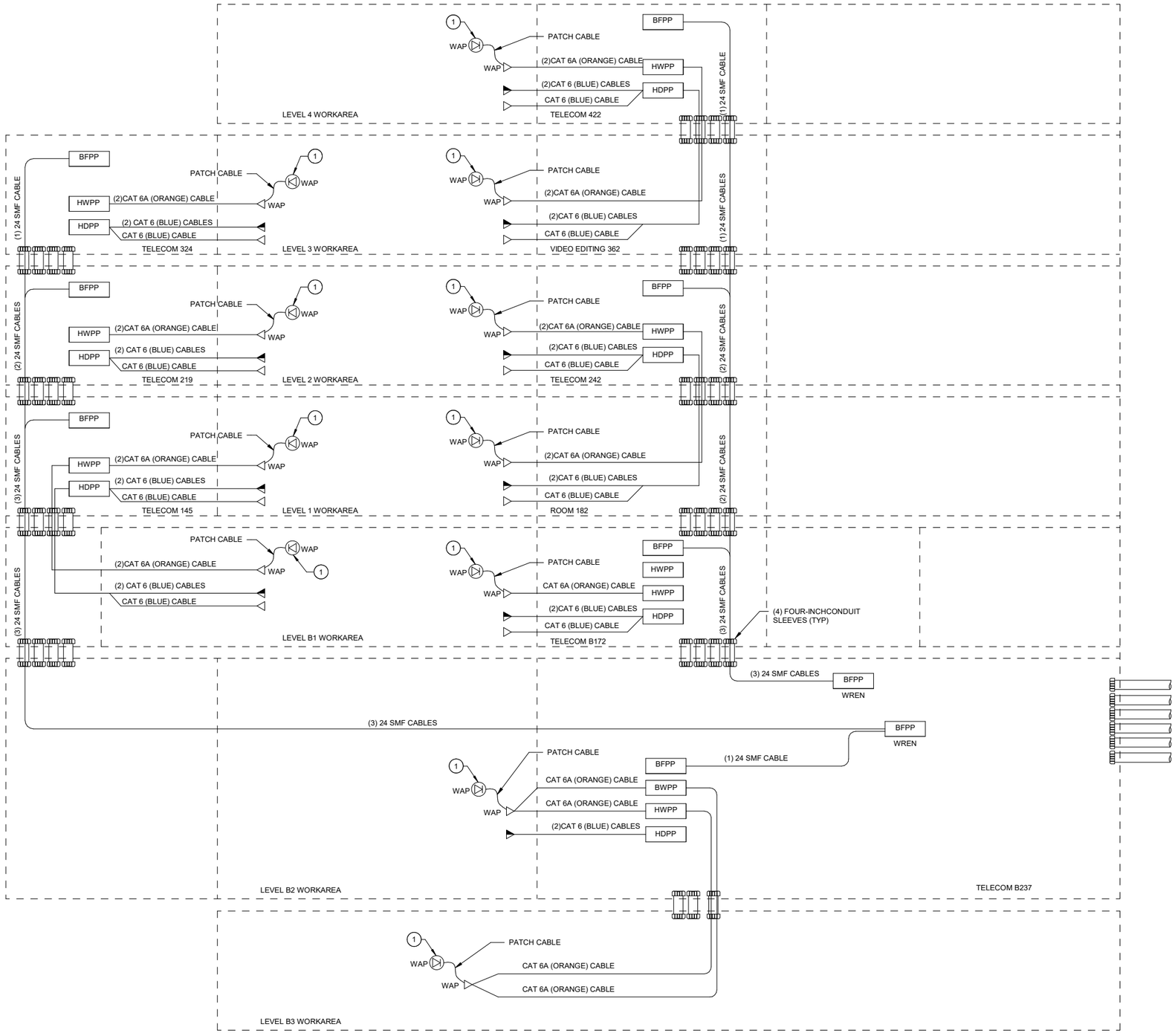
JACOBS / EWING COLE A Joint Venture

BUILDINGS 605/607 RENOVATION - LINCOLN HALL

NIPR VOICE AND DATA ONE-LINE DIAGRAM

SHEET ID
T-601

REVISED RTA SUBMISSION 3/1/2023



A1 WREN AND WAP DATA ONE-LINE DIAGRAM
NOT TO SCALE

KEYNOTES (#)

1 WORK DEPICTED ON THIS DETAIL AND PLANS FOR THE WAP SYSTEM MUST BE INCLUDED IN CLIN 0009 PRINCING SCHEDULE. FINAL LOCATION OF WAP DEVICES MUST BE BASED ON SIGNAL STRENGTH MAPPING SOFTWARE.

SYMBOL	DESCRIPTION	EQUIPMENT INFORMATION
BFPP	BACKBONE FIBER PATCH PANEL	2U OR 4U FIBER PATCH PANEL WITH LC PIGTAILED FUSION SPLICE CASSETTES AS REQUIRED
BVPP	BACKBONE VOICE PATCH PANEL	48 PORT CAT 6 PATCH PANEL. TERMINATE ONE PAIR PER PORT (PINS 4 AND 5) EXCEPT PORT 48 TERMINATE 2-PAIR
HDPP	HORIZONTAL DATA PATCH PANEL	48-PORT UNLOADED PATCH PANEL WITH CAT 6, RJ-45 BLUE JACKS
HVPP	HORIZONTAL VOICE PATCH PANEL	48-PORT UNLOADED PATCH PANEL WITH CAT 6, RJ-45 GREEN JACKS
HWPP	HORIZONTAL WIRELESS PATCH PANEL	48-PORT UNLOADED PATCH PANEL WITH CAT 6A, RJ-45 ORANGE JACKS
PET	PROTECTOR ENTRANCE TERMINALS	100-PAIR PROTECTION ENTRANCE TERMINAL (PET) WITH 110 CONNECTORS INPUT/OUTPUT AND (100) 5-PIN GAS TUBES

US Army Corps of Engineers ®

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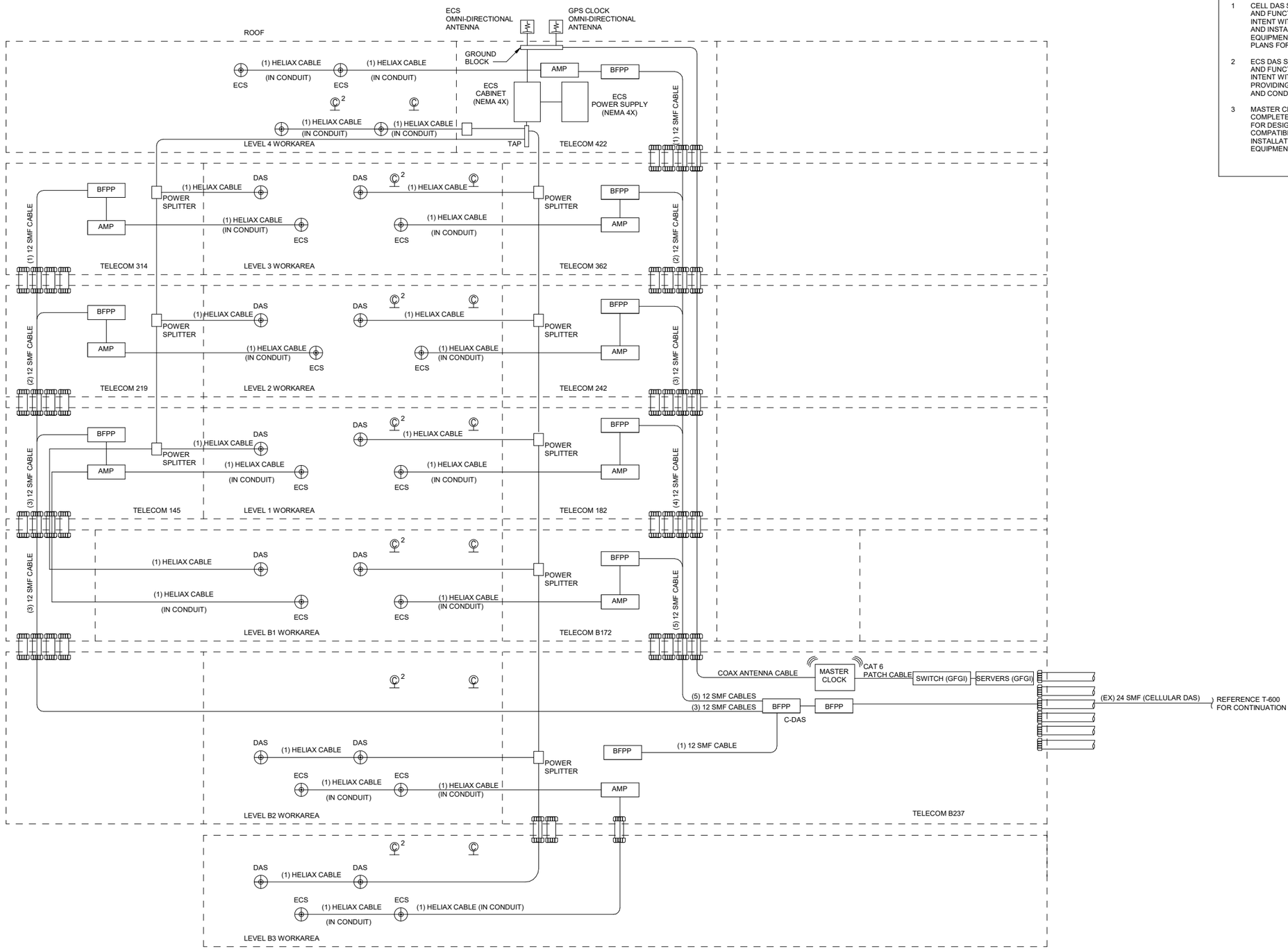
JACOBS / EWING COLE A Joint Venture

BUILDINGS 605/607 RENOVATION - LINCOLN HALL

WREN AND WAP DATA ONE-LINE DIAGRAM

SHEET ID

T-602



A1 F-DAS, C-DAS AND CLOCK ONE-LINE DIAGRAM

NOT TO SCALE

GENERAL NOTES

1. CELL DAS SYSTEM ELECTRONICS AND WIRING ARE CFCI FOR A COMPLETE AND FUNCTIONAL SYSTEM INFORMATION ON THE DRAWINGS IS FOR DESIGN INTENT WITH C-SQUARED SYSTEMS LLC MUST PROVIDE COMPLETE DESIGN AND INSTALLATION. COORDINATE BACKBOX REQUIREMENTS WITH EQUIPMENT PRIOR TO INSTALLATION. WORK DEPICTED ON THIS DETAIL AND PLANS FOR THE C-DAS MUST BE INCLUDED IN CLIN 0008 PRICING SCHEDULE.
2. ECS DAS SYSTEM ELECTRONICS AND WIRING ARE CFCI FOR A COMPLETE AND FUNCTIONAL SYSTEM. INFORMATION ON THE DRAWINGS IS FOR DESIGN INTENT WITH MOTOROLA OR APPROVED COMPATIBLE MANUFACTURER PROVIDING A COMPLETE DESIGN AND INSTALLATION. COORDINATE BACKBOX AND CONDUIT REQUIREMENTS WITH EQUIPMENT PRIOR TO INSTALLATION.
3. MASTER CLOCK SYSTEM ELECTRONICS AND WIRING ARE CFCI FOR A COMPLETE AND FUNCTIONAL SYSTEM. INFORMATION ON THE DRAWINGS IS FOR DESIGN INTENT WITH SAPLING MANUFACTURER OR APPROVED COMPATIBLE MANUFACTURER PROVIDING A COMPLETE DESIGN AND INSTALLATION. COORDINATE BACKBOX AND CONDUIT REQUIREMENTS WITH EQUIPMENT PRIOR TO INSTALLATION.

US Army Corps of Engineers ®

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WEST POINT, NEW YORK

JACOBS / EWING COLE A Joint Venture

BUILDINGS 605/607 RENOVATION - LINCOLN HALL

F-DAS, C-DAS AND CLOCK ONE-LINE DIAGRAM

SHEET ID

T-603

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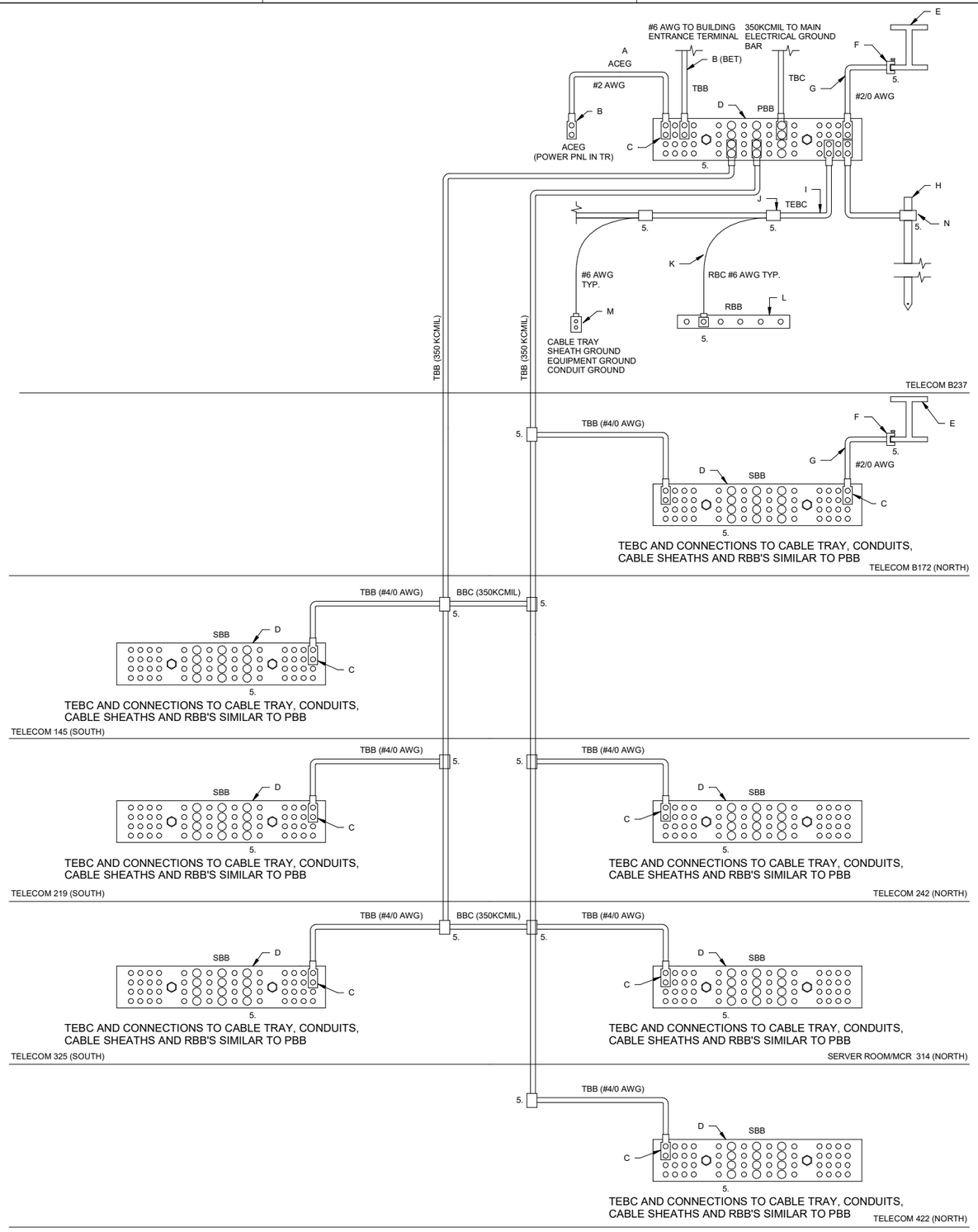

A1 TELECOM BONDING AND GROUNDING DIAGRAM

NOT TO SCALE

GENERAL NOTES:

1. PBB'S MUST MEET ANSI / TIA-607-D 6.2.1.
2. SBB'S MUST MEET ANSI / TIA-607-D 6.2.2.
3. RBB'S MUST MEET ANSI / TIA-607-D 6.2.3.
4. UNLESS NOTED OTHERWISE, SIZE TBB / BBC CONDUCTORS TO ANSI / TIA-607-D TABLE 1 THESE CONDUCTORS MUST BE THE SAME SIZE WHEN CONNECTED.
5. BONDING CONNECTIONS ARE EITHER LISTED EXOTHERMIC WELDS, LISTED IRREVERSIBLE COMPRESSION CONNECTORS, OR LISTED MECHANICAL CONNECTORS. CONNECTORS, LUGS, AND COMPONENTS MUST BE LISTED FOR THE PURPOSE.
6. CONTRACTOR IS TO VERIFY TELECOMMUNICATIONS GROUND REFERENCE POINT WITH THE GOVERNMENT, PRIOR TO TESTING GROUND RESISTANCE.

KEYNOTES:

A. IF PANELBOARD IS LOCATED IN SAME SPACE, BOND PBB TO ACEG BUS. MAINTAIN 12-INCHES SEPARATION.

B. THIS CONDUCTOR MUST BE CONTINUOUS AND AS SHORT AS POSSIBLE IN A STRAIGHT-LINE PATH.

C. CONNECTIONS TO THE PBB / SBB MUST UTILIZE EXOTHERMIC WELDING OR LISTED TWO-HOLE IRREVERSIBLE COMPRESSION LUGS.

D. PBB OR SBB MUST MEET REQUIREMENTS OF ANSI / TIA-607-D 6.2.1.

E. BUILDING STEEL (STRUCTURAL METAL) VERIFIED ELECTRONICALLY CONTINUOUS VIA TWO-POINT TEST OR EQUIPMENT.

F. LISTED BONDING CONNECTOR. LISTED EXOTHERMIC, COMPRESSION, OR MECHANICAL CONNECTION.

G. SIZE THIS BONDING CONDUCTOR TO TIA 607-D TABLE 1. THIS CONDUCTOR MUST BE NO SMALLER THAN ANY OTHER CONDUCTOR IN THE TELECOM BONDING BACKBONE SYSTEM. USE #2/0 AWG UON.

H. MINIMUM GROUND ELECTRODE IS 3/4-INCH DIAMETER BY 10'-0" LONG BURIED 24-INCHES FOR A SUM OF 10'-0" DRIVEN DEPTH. ROD / ELECTRODE SHOULD HAVE A 10 MIL COPPER PLATING THICKNESS OR MWE. B237 ONLY.

I. TEBC MUST BE SIZED TO LARGEST-SIZE GROUNDING CONDUCTOR. USE #2/0 AWG, UNLESS OTHERWISE NOTED.

J. USE IRREVERSIBLE COMPRESSION CONNECTORS TO BOND TEBC TO RBC'S OR OTHER GROUNDING CONDUCTORS.

K. USE #6 AWG AS A MINIMUM RBC SIZE, UNLESS OTHERWISE NOTED.

L. WHEN USING RBBS, USE LISTED RBBS SIZED TO ANSI / TIA-607-D 6.2.3.

M. BOND EQUIPMENT TO TEBC VIA IRREVERSIBLE COMPRESSION CONNECTORS AND #6 AWG.

N. BOND GROUND CABLE TO GROUND ELECTRODE.

O. STAND-OFF BRACKET TO MAINTAIN SEPARATION (MINIMUM 2-INCHES) FROM OTHER CABLE SPACE BRACKETS NO GREATER THAN 36-INCHES CENTER TO CENTER.

P. PROVIDE #2/0 AWG XHHW. EXOTHERMIC WELD IT TO THE SBB AND GROUND ROD.

Q. PROVIDE #2/0 AWG XHHW. EXOTHERMIC WELD IT TO THE GROUND ROD.

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BUILDINGS 605/607 RENOVATION - LINCOLN HALL

TELECOM BONDING AND GROUNDING ONE-LINE DIAGRAM

SHEET ID

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