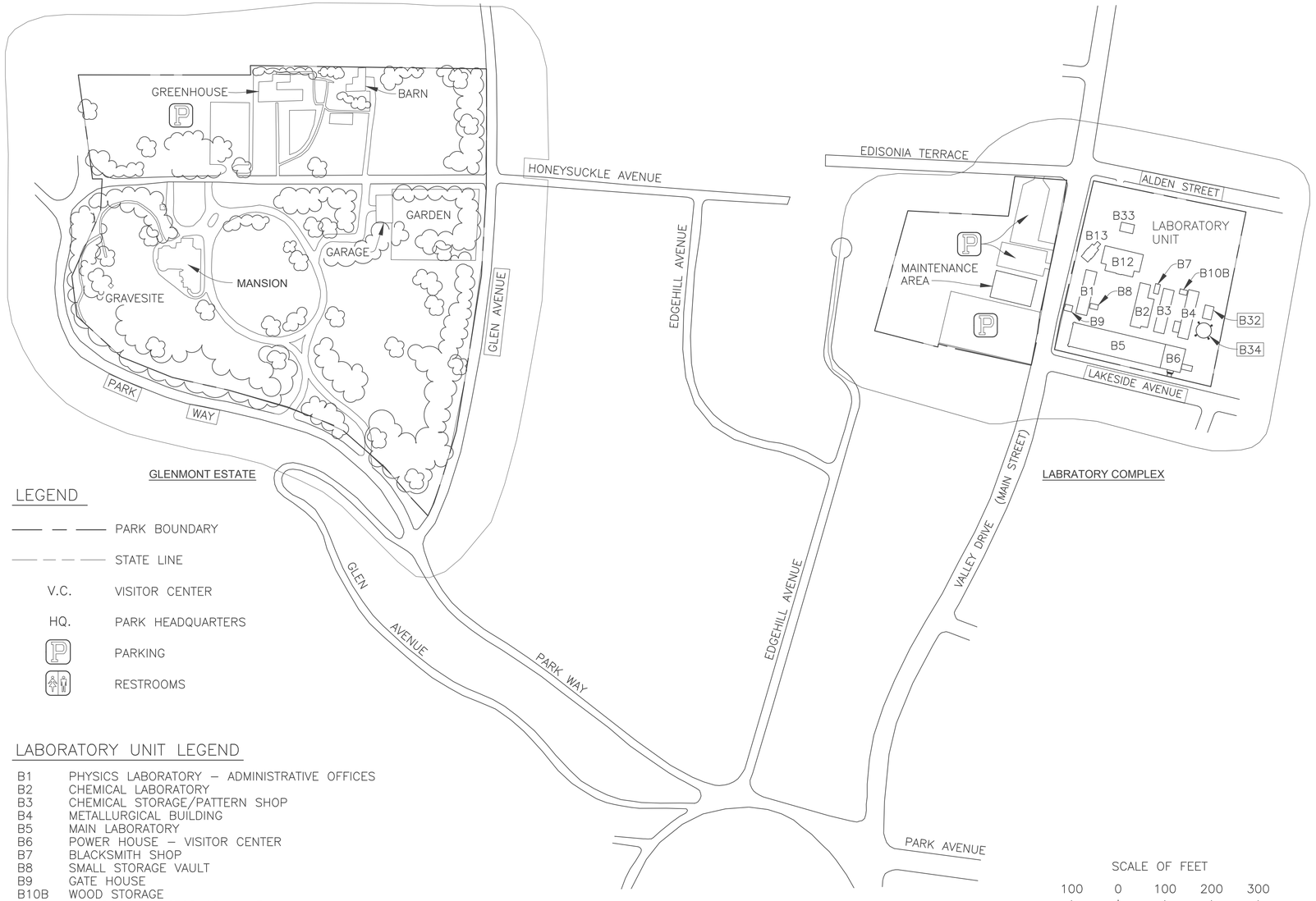
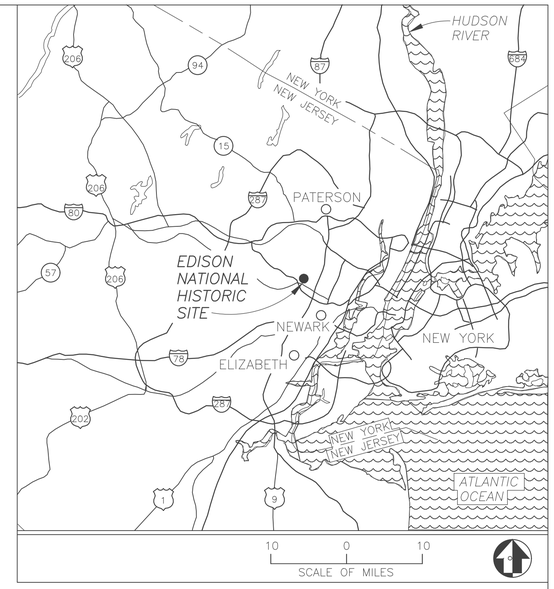
DRAWING INFO: SCALE IS.75–100'
PSZOOM IS XP 1600



GLENMONT ESTATE

LABRATORY COMPLEX



LEGEND

- PARK BOUNDARY
- STATE LINE
- V.C. VISITOR CENTER
- HQ. PARK HEADQUARTERS
- PARKING
- RESTROOMS

LABORATORY UNIT LEGEND

B1	PHYSICS LABORATORY – ADMINISTRATIVE OFFICES
B2	CHEMICAL LABORATORY
B3	CHEMICAL STORAGE/PATTERN SHOP
B4	METALLURGICAL BUILDING
B5	MAIN LABORATORY
B6	POWER HOUSE – VISITOR CENTER
B7	BLACKSMITH SHOP
B8	SMALL STORAGE VAULT
B9	GATE HOUSE
B10B	WOOD STORAGE
B12	UNDERGROUND STORAGE VAULT
B13	BLACK MARIA
B32	VAULT
B33	BLUE AMBEROL VAULT
B34	WATER TOWER

SCALE OF FEET
100 0 100 200 300
25 0 25 50 75
SCALE OF METERS

SHEET	SUB SHEET	TITLE OF SHEET
1	N/A	COVER SHEET & DRAWINGS LIST
2	E.01	GENERAL NOTES & SYMBOLS LIST
3	E.02	PART BASEMENT PLAN – SOUTH
4	E.03	PART PLAN BASEMENT – NORTH
5	E.04	PART FIRST FLOOR PLAN – SOUTH
6	E.05	PART FIRST FLOOR PLAN – NORTH
7	E.06	PART SECOND FLOOR PLAN – SOUTH
8	E.07	PART SECOND FLOOR PLAN – NORTH
9	E.08	THIRD FLOOR PLAN
10	E.09	ATTIC PLAN
11	E.10	SECURITY RISER DIAGRAM

EDISON NATIONAL HISTORIC SITE

APR 8 2025

UNITED STATES
DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE
HISTORIC ARCITECTURE, CONSERVATION & ENGINEERING
INTERIOR REGION 1
NORTH ATLANTIC & APPALACHIAN

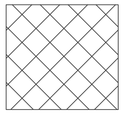
TITLE OF DRAWING
INTRUSION DETECTION SYSTEM
GLENMONT MANSION
NAME OF PARK
EDISON NATIONAL HISTORIC SITE
REGION 1 | COUNTY ESSEX | STATE NEW JERSEY

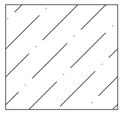
DRAWING NO. 403
PMIS/PKG NO. 315008
SHEET 1 OF 11

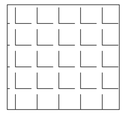
GENERAL NOTES:

1. DRAWINGS ARE CONCEPTUAL AND ARE INTENDED TO SHOW GENERAL SYSTEM CONFIGURATION AND PERFORMANCE. NOT ALL NECESSARY DEVICES AND COMPONENTS ARE SHOWN. PROVIDE ALL DEVICES AND COMPONENTS FOR A FULLY FUNCTIONAL SYSTEM.
2. PREPARE SHOP DRAWINGS AND FURNISH AND INSTALL ALL MATERIALS AND EQUIPMENT FOR A COMPLETE AND OPERATIONAL SYSTEM.
3. INSTALL DEVICES AND SYSTEM WIRING TO AVOID DISTURBANCE TO HISTORIC FABRIC AND TO AVOID VISUAL INTRUSION INTO PUBLIC VISITATION AREAS. HISTORIC PRESERVATION SHALL BE TAKEN INTO ACCOUNT THROUGHOUT THIE PROJECT.
4. NEW INTRUSION DETECTION DEVICES SHALL BE WIRELESS UNLESS OTHERWISE CALLED FOR IN THE DRAWINGS OR PROJECT MANUAL. WHERE WIRING IS CALLED FOR NEW WIRING SHALL TRACE THE PATH OF THE EXISTING WIRING AND UTILIZE THE SAME PENETRATIONS OF WALLS, FLOORS AND CEILINGS.
5. WIRING SHALL BE CONCEALED IN CHASES, WALLS, UNDER FLOORS, AND ABOVE CEILINGS. WHEN SUCH ROUTING IS UNAVAILABLE FOR THE CONCEALMENT OF CABLES, ROUTE CABLES EXPOSED AND SURFACE MOUNTED IN DISCRETE LOCATIONS. ALL VISIBLE MOUNTING SHALL BE CONFIRMED WITH NPS COR PRIOR TO INSTALLATION. WHERE REQUIRED, PAINT CABLE TO MATCH ADJACENT SURFACES.
6. IT IS RECOMMENDED THAT CONTRACTOR VISIT AND BECOME FAMILIAR WITH SITES PRIOR TO SUBMITTING BID.
7. EXISTING INTRUSION DETECTION SYSTEM SHALL TO REMAIN FUNCTIONAL, AND IN SERVICE, UNTIL THE NEW SYSTEM IS INSTALLED AND FULLY FUNCTIONAL, TESTED AND ACCEPTED.
8. ALL ADDRESSABLE DEVICES SHALL BE PROGRAMMED WITH A MINIMUM DESCRION TO INCLUDE DEVICE: ADDRESS; TYPE; FLOOR; AND ROOM OR AREA. DESCRIPTIONS IN ADDITION TO DEVICE ADDRESS IN ACCORDANCE WITH DESIRED NPS NAMING CONVENTION, TO BE PROVIDED TO CONTRACTOR.
9. CONTRACT DRAWINGS AND SPECIFICATIONS ARE COMPLEMENTARY AND MUST BE USED IN CONJUNCTION TO OBTAIN COMPLETE CONSTRUCTION INFORMATION. CONTRACTOR SHALL COORDINATE ALL DRAWINGS AND SPECIFICATIONS PRIOR TO COMMENCING WORK.QUESTIONS REGARDING DESIGN INTENT OR SYSTEM OPERATION SHALL BE PROMPTLY BROUGHT TO NPS COR ATTENTION.
10. THE TERM "REMOVE" MEANS CONTRACTOR SHALL DISCONNECT AND LEGALLY CLEAR FROM SITE.
11. THE TERM “PROVIDE” MEANS FURNISH AND INSTALL, COMPLETE AND READY FOR USE.
12. THE TERM “CONTRACT DOCUMENTS” MEANS THE SPECIFICATIONS, DRAWINGS, ADDENDUMS, SKETCHES AND OTHER DOCUMENTATION THAT DEFINE THE WORK.
13. ANY CONFLICTS BETWEEN SPECIFICATIONS AND DRAWINGS SHALL BE PROMPTLY BROUGHT TO COR’S ATTENTION. THE CONTRACTOR SHALL NOT PROCEED WITH ANY WORK EXCEPT AT THEIR OWN RISK, UNTIL CLARIFICATIONS OF CONFLICTS ARE ISSUED TO THE CONTRACTORS BY THE NPS COR.
14. IF CONDITION OF WINDOW SASH OR OTHER WOODWORK IS NOT SUITABLE FOR THE INSTALLATION OF THE INTRUSION DETECTION DEVICE, NOTIFY THE COR BEFORE PROCEEDING WITH THE INSTALLATION.
15. WHERE DEVICES, WIRING, MOLDING, ETC. ARE TO BE REMOVED FROM EXISTING HISTORIC FABRIC AND REMOVAL MAY NOT BE POSSIBLE WITHOUT DAMAGING EXISTING HISTORIC FABRIC, NOTIFY NPS COR PRIOR TO THE REMOVAL OF THE ITEM.

SECURITY PARTITIONING AND PROGRAMMING NOTES


INDICATES PUBLIC AREAS


INDICATES STAFF AREAS


INDICATES LIMITED AREAS

SECURITY SYSTEM NOTES: (APPLY TO ENTIRE PROJECT)

1. ALL DEVICES WILL BE ARMED DURING NON-BUISNESS HOURS. ALARMS SHALL ANNUNCIATE LOCALLY AND TO THE MONITORING STATION.
2. LIMITED AREAS WILL BE ARMED AT ALL TIMES. THEY WILL BE DISARMED AND RE-ARMED FOR ENTRY AS NEEDED USING THE LOCAL KEYPAD. EACH ROOM SHALL BE CAPABLE OF BEING DISARMED/ARMED INDIVIDUALLY.
3. ALL DEVICES SHALL BE ABLE TO BE DISARMED AND ARMED FROM ANY KEYPAD.
4. DURESS BUTTONS AT ALL LOCATIONS SHALL REMAIN ARMED AT ALL TIMES.
5. ASSET PROTECTION DEVICES SHALL REMAIN ARMED AT ALL TIMES.
6. KNOX BOX SHALL REMAIN ARMED AT ALL TIMES.
7. MOST MOTION DETECTORS IN STAFF AREAS WILL BE DISARMED DURING BUSINESS HOURS. APPROXIMATELY 10 TO 20 DEVICES SHALL BE ARMED AND ABLE TO ALERT LOCALLY ("DAY ALERT").
8. MOST PERIMETER DEVICES (WINDOWS AND DOORS) SHALL REMAIN ARMED AT ALL TIMES. MAIN ENTRY DOORS WILL BE DISARMED DURING BUSINESS HOURS.
9. SYSTEM WILL HAVE APPROXIMATELY 25 USERS, EACH WITH A DIFFERENT LEVEL OF ACCESS.
10. COORDINATE FINAL PROGRAMMING OF SECURITY SYSTEM DEVICES WITH CONTRACTING OFFICER PRIOR TO COMPLETING ZONE/DEVICE SCHEDULES ON DEPARTMENT OF HOMELAND SECURITY FPS MEGACENTER SUBSCRIBER FORM.

SYMBOL LIST

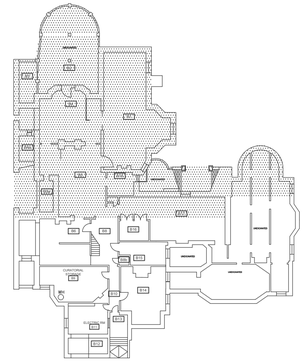
SYMBOL	DESCRIPTION
IDWS	SECURITY/INTRUSION SYSTEM WORKSTATION.
K	KEYPAD, WALL MOUNTED ON RECESSED OUTLET
M	DOOR OR WINDOW MAGNETIC CONTACT, SURFACE MOUNTED.
MR	DOOR OR WINDOW MAGNETIC CONTACT, RECESSED IN JAMB OR SASH.
MG	GARAGE DOOR OR BULKHEAD MAGNETIC CONTACT.
A	MAGNETIC CONTACT FOR ASSET PROTECTION, MINIATURE RECESSED MOUNTED.
	MOTION SENSOR, BULLET-TYPE, DUAL TECHNOLOGY, WALL MOUNTED.
	MOTION SENSOR, DUAL TECHNOLOGY, 360°, CEILING MOUNTED.
	MOTION SENSOR, PIR CURTAIN BEAM.
SM	COMBINATION SHOCK SENSOR AND MAGNETIC CONTACT.
GB	GLASS BREAK/SHOCK SENSOR, WINDOW MOUNTED, ON-THE-GLASS.
GB	GLASS BREAK/SHOCK SENSOR, CEILING MOUNTED.
GB	GLASS BREAK/SHOCK SENSOR, WALL MOUNTED.
	DURESS BUTTON, WIRELESS WITH LANYARD.
CC	CELLULAR COMMUNICATOR
WR	WIRELESS RECEIVER
AV	COMBINATION AUDIBLE AND VISUAL ALARM, WALL MOUNTED.
PS	BACK-UP POWER SUPPLY IN VENTILATED, NEMA 1 ENCLOSURE.

SYMBOLS KEY

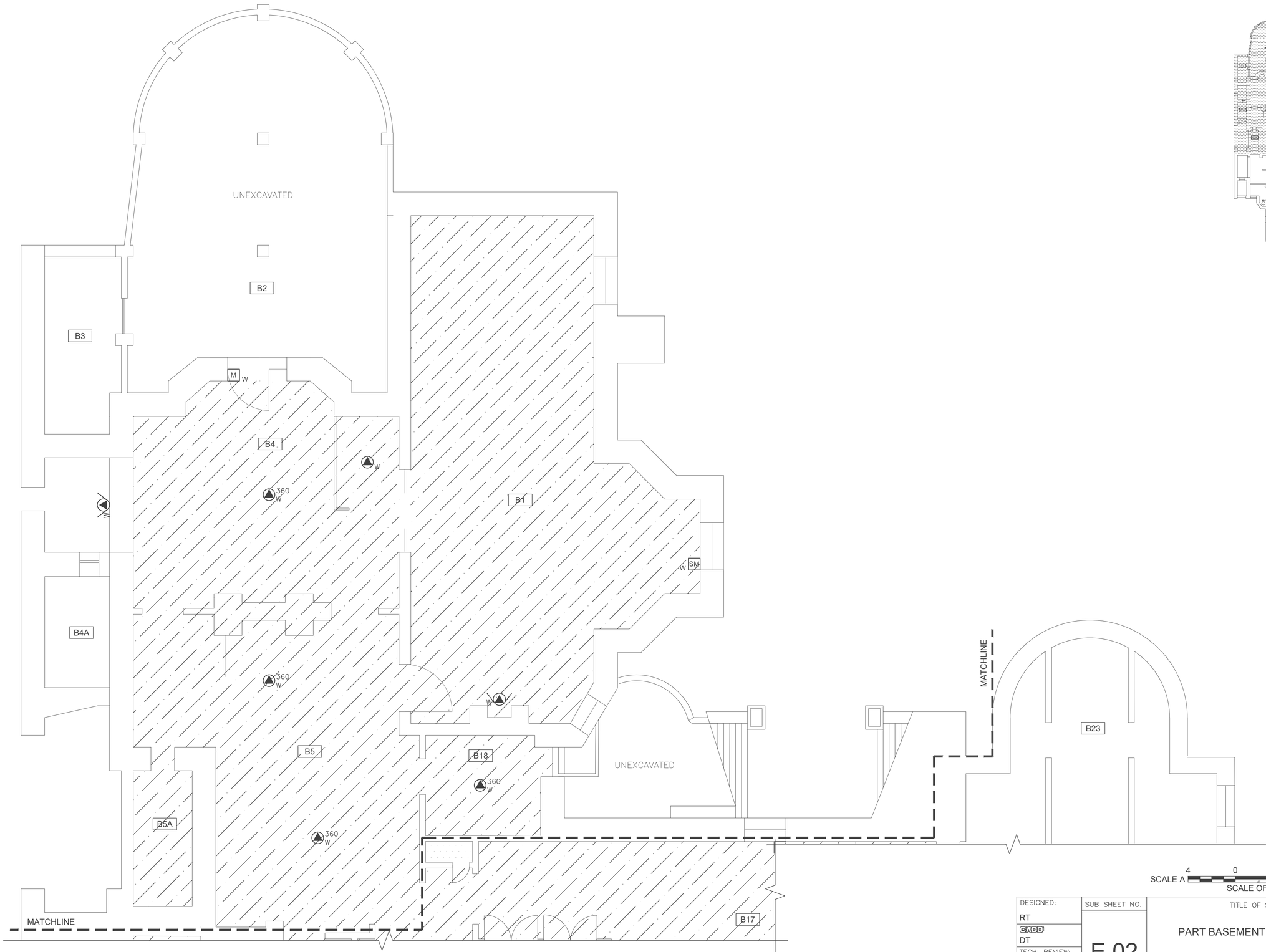
W	WIRELESS DEVICE
360	360° VIEW
135	135°F FIXED TEMPERATURE & RATE-OF-RISE

INITIATING DEVICES	ANNUNCIATION: ALARM ANNUNCIATION	ANNUNCIATION: SUPERVISORY ANNUNCIATION	ANNUNCIATION: TROUBLE ANNUNCIATION	NOTIFICATION: ACTIVATE FIRE ALARM LOCAL SOUNDER BASE APPLIANCES	NOTIFICATION: ACTIVATE LOCAL INTRUSION SOUNDER AND STROBE DEVICES	MONITORING: TRANSMIT ALARM SIGNAL TO MONITORING STATION	MONITORING: TRANSMIT SUPERVISORY SIGNAL TO MONITORING STATION	MONITORING: TRANSMIT TROUBLE SIGNAL TO MONITORING STATION
FIRE DETECTION DEVICE	X			X		X		
SPRINKLER FLOW OR TAMPER SWITCH	X			X		X		
SPRINKLER HI-LOW PRESSURE SWITCH		X					X	
ARMED INTRUSION DETECTION DEVICE	X				X	X		
EMERGENCY GENERATOR RUNNING								
ALARM AC POWER FAIL		X					X	
ALARM SYSTEM LOW BATTERY			X					X
ALARM PANEL GROUND FAULT			X					X
ALARM PANEL OPEN CIRCUIT			X					X
SLC/INITITATING DEVICE CIRCUIT SHORT			X					X

DESIGNED: RT	SUB SHEET NO.	TITLE OF SHEET: GENERAL NOTES & SYMBOLS LIST	DRAWING NO. 403 195112
CADD DT	E.01	INTRUSION DETECTION SYSTEM GLENMONT ESTATE MANSION THOMAS EDISON NATIONAL HISTORICAL PARK	PMIS/PKG NO. 315008
TECH. REVIEW:			SHEET 2 OF 11
DATE: APR 8 2025			



KEY PLAN



SCALE A 4 0 4 8
SCALE OF FEET

PLAN NORTH

DESIGNED: RT CADD DT TECH. REVIEW: DATE: APR 8 2025	SUB SHEET NO. E.02	TITLE OF SHEET PART BASEMENT PLAN - SOUTH INTRUSION DETECTION SYSTEM GLENMONT ESTATE MANSION THOMAS EDISON NATIONAL HISTORICAL PARK	DRAWING NO. 403 195112 PMIS/PKG NO. 315008 SHEET 3 OF 11

B4A

B5

B18

UNEXCAVATED

B5A

MATCHLINE

B23

MATCHLINE

B17

B7

B6

B8

B16

IDWS BP WR CC

B8B

B15

UNEXCAVATED

UNEXCAVATED

B9

B14

B10

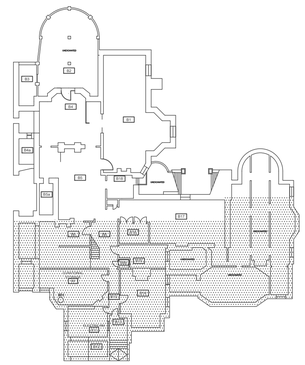
B11

B13

B12

MAIN DISTRIBUTION PANEL, PANEL 10:
120/240V, 1ø, 3W, 400A.

SUB–PANEL, PANEL 10A:
120/240V, 1ø, 3W, 100A.



KEY PLAN

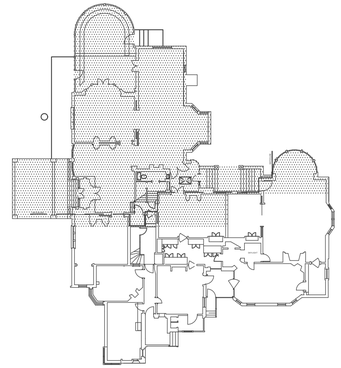
SHEET NOTES: (#)

1. PROVIDE NEW 2-#12 & 1-#12G - 3/4"C FROM DEDICATED, 20A, 1P BRANCH BREAKER IN EXISTING PANEL 10A IN THE ELECTRICAL ROOM, B11.

SCALE A 4 0 4 8
SCALE OF FEET

PLAN NORTH

DESIGNED: RT CADD DT TECH. REVIEW: DATE: APR 8 2025	SUB SHEET NO. E.03	TITLE OF SHEET PART BASEMENT PLAN - NORTH INTRUSION DETECTION SYSTEM GLENMONT ESTATE MANSION THOMAS EDISON NATIONAL HISTORICAL PARK	DRAWING NO. 403 195112 PMIS/PKG NO. 315008 SHEET 4 OF 11



KEY PLAN

SHEET NOTES: (#)

1. GLASS BREAK DETECTORS MOUNTED TO SIDE OF BEAM. MOTION SENSOR MOUNTED ON UNDERSIDE OF BEAM.

CONSERVATORY 101
RECEPTION 102
RECEPTION HALL 103
DRAWING ROOM 100
FERN ROOM 116
DINING ROOM 115
VESTIBULE 103a
CLOSET 103b
119
119a
SKYLIGHT
COAL CHUTE
MOUNT ON LEDGE
AIM BEAM STARIGHT DOWN
MATCHLINE
MATCHLINE

SCALE A 4 0 4 8
SCALE OF FEET

PLAN NORTH

DESIGNED: RT CADD DT TECH. REVIEW: DATE: APR 8 2025	SUB SHEET NO. E.04	TITLE OF SHEET PART FIRST FLOOR PLAN - SOUTH INTRUSION DETECTION SYSTEM GLENMONT ESTATE MANSION THOMAS EDISON NATIONAL HISTORICAL PARK	DRAWING NO. 403 195112 PMIS/PKG NO. 315008 SHEET 5 OF 11

RECEPTION HALL 103

MOUNT ON LEDGE

AIM BEAM STARIGHT DOWN

VESTIBULE 103a

119

119a

SKYLIGHT

FERN ROOM 116

MATCHLINE

MOUNT ON WINDOW SILL, TYP OF 5.

SUSPEND FROM PICTURE RAIL

MOUNT ON WINDOW SILL, TYP OF 4.

DINING ROOM 115

CLOSET 103b

DEN 114

MOUNT ON LEDGE

PEDDLER LIBRARY 104

BUTLER'S PANTRY 108

111

SKYLIGHT

112

PRESERVING ROOM 110

BUTLER'S ROOM 113

109

SERVANT'S DINING ROOM 105

KITCHEN 107

107a

LAUNDRY ROOM 106

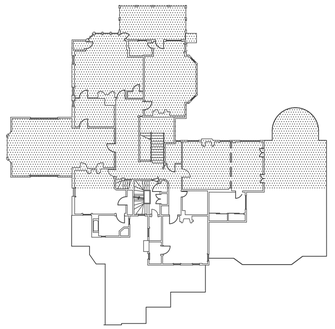
PORCH 121

KEY PLAN

SCALE A 4 0 4 8
SCALE OF FEET

PLAN NORTH

DESIGNED: RT DRAFTED: DT TECH. REVIEW: DATE: APR 8 2025	SUB SHEET NO. E.05	TITLE OF SHEET PART FIRST FLOOR PLAN - NORTH INTRUSION DETECTION SYSTEM GLENMONT ESTATE MANSION THOMAS EDISON NATIONAL HISTORICAL PARK	DRAWING NO. 403 195112 PMIS/PKG NO. 315008 SHEET 6 OF 11

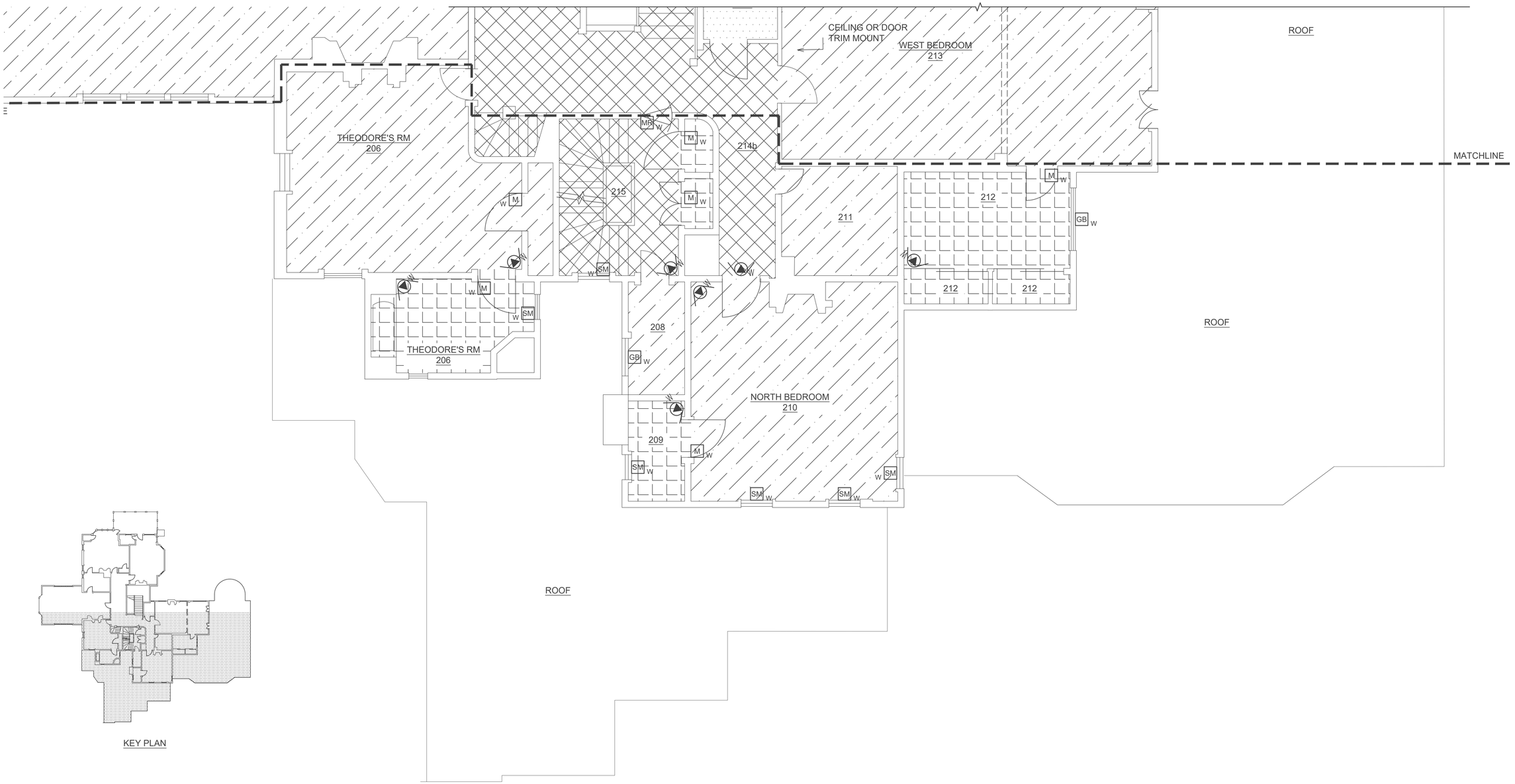


KEY PLAN

SCALE A 4 0 4 8
SCALE OF FEET

PLAN NORTH

DESIGNED: RT DRAWN: DT TECH. REVIEW: DATE: APR 8 2025	SUB SHEET NO. E.06	TITLE OF SHEET PART SECOND FLOOR PLAN - SOUTH INTRUSION DETECTION SYSTEM GLENMONT ESTATE MANSION THOMAS EDISON NATIONAL HISTORICAL PARK	DRAWING NO. 403 195112 PMIS/PKG NO. 315008 SHEET 7 OF 11

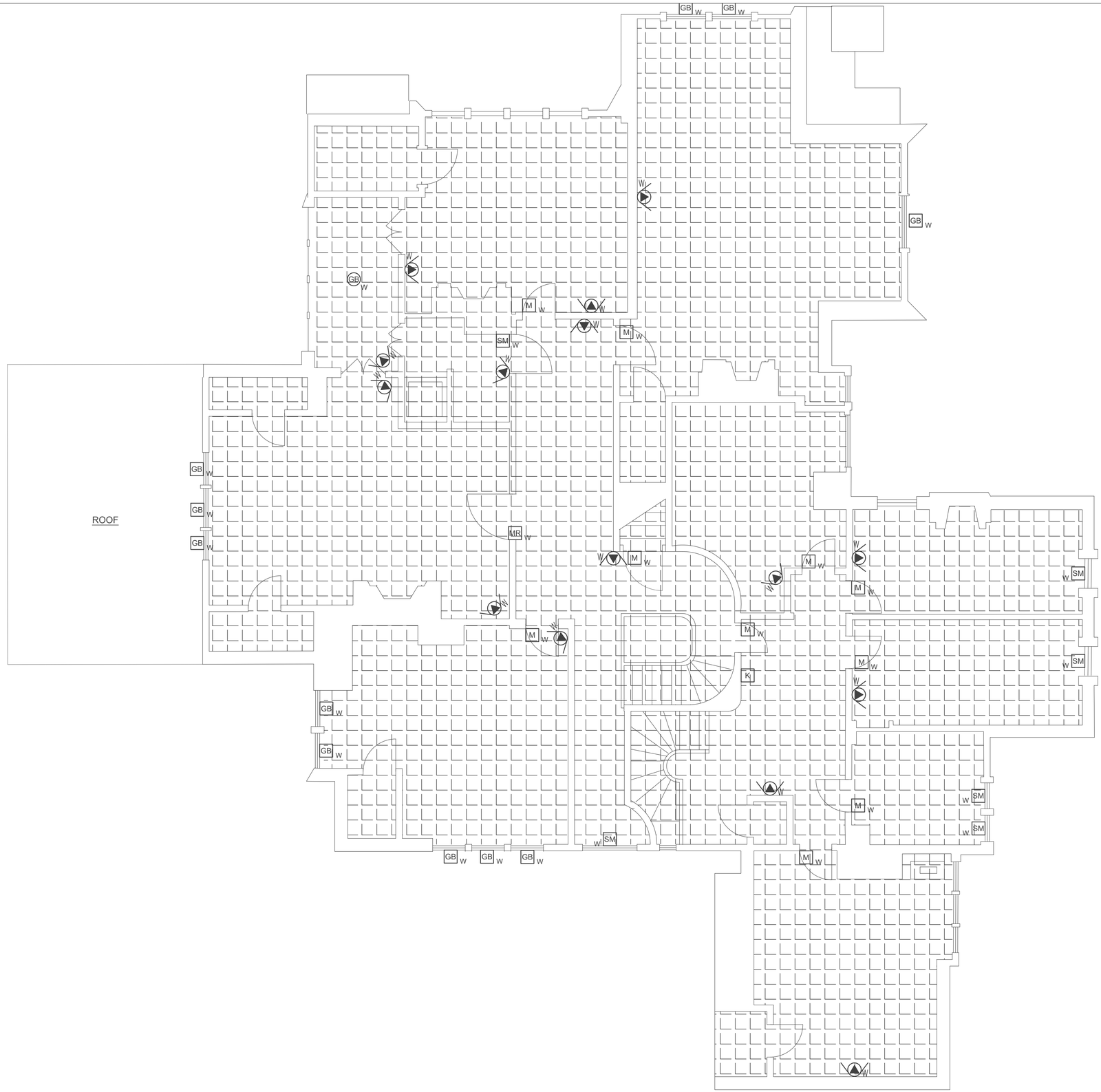


KEY PLAN

SCALE A 4 0 4 8
SCALE OF FEET

PLAN NORTH

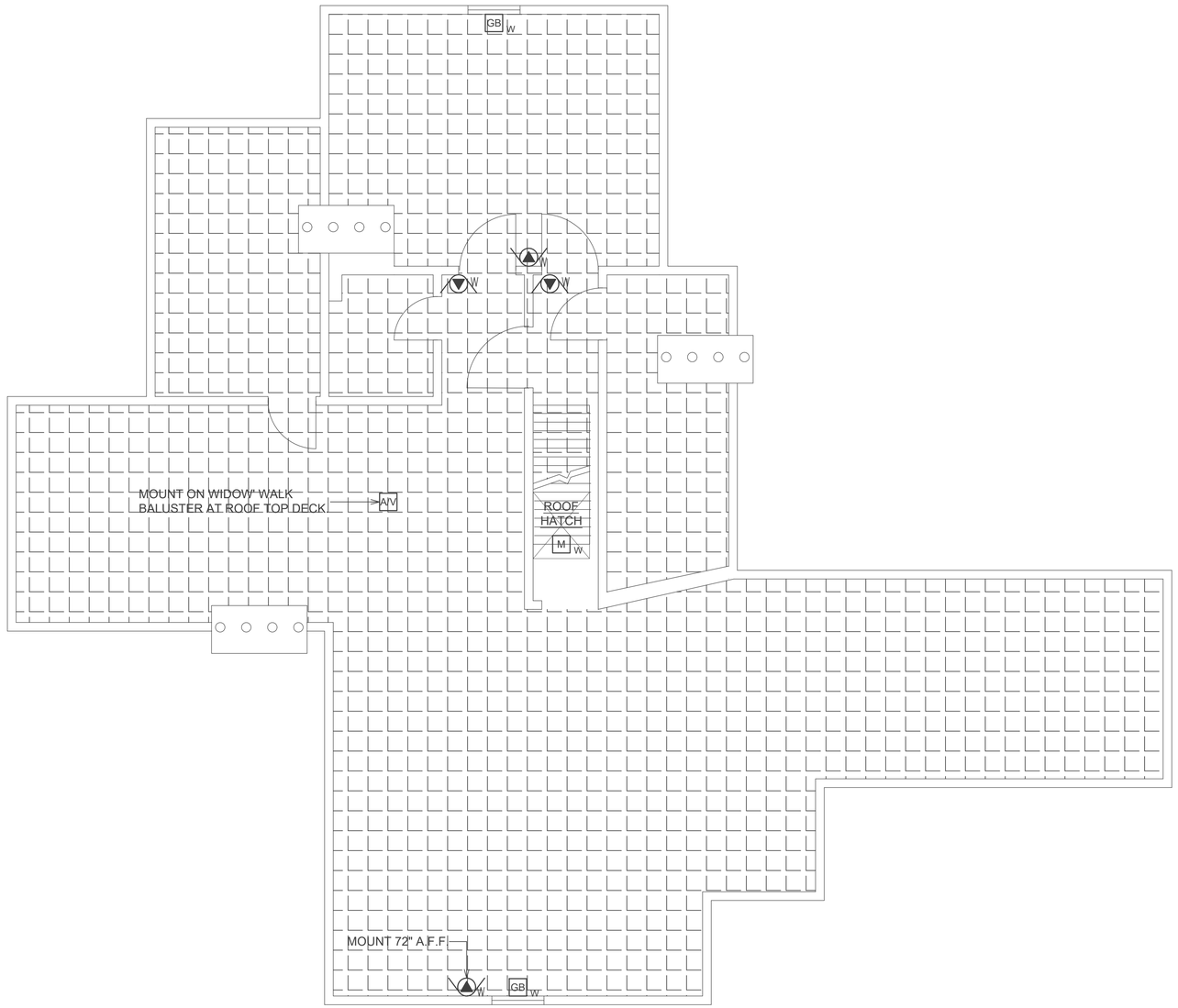
DESIGNED: RT DRAFTED: DT TECH. REVIEW: DATE: APR 8 2025	SUB SHEET NO. E.07	TITLE OF SHEET PART SECOND FLOOR PLAN - NORTH INTRUSION DETECTION SYSTEM GLENMONT ESTATE MANSION THOMAS EDISON NATIONAL HISTORICAL PARK	DRAWING NO. 403 195112 PMIS/PKG NO. 315008 SHEET 8 OF 11



SCALE A 4 0 4 8
SCALE OF FEET

PLAN NORTH

DESIGNED: RT CADD DT TECH. REVIEW: DATE: APR 8 2025	SUB SHEET NO. E.08	TITLE OF SHEET THIRD FLOOR PLAN INTRUSION DETECTION SYSTEM GLENMONT ESTATE MANSION THOMAS EDISON NATIONAL HISTORICAL PARK	DRAWING NO. 403 195112 PMIS/PKG NO. 315008 SHEET 9 OF 11

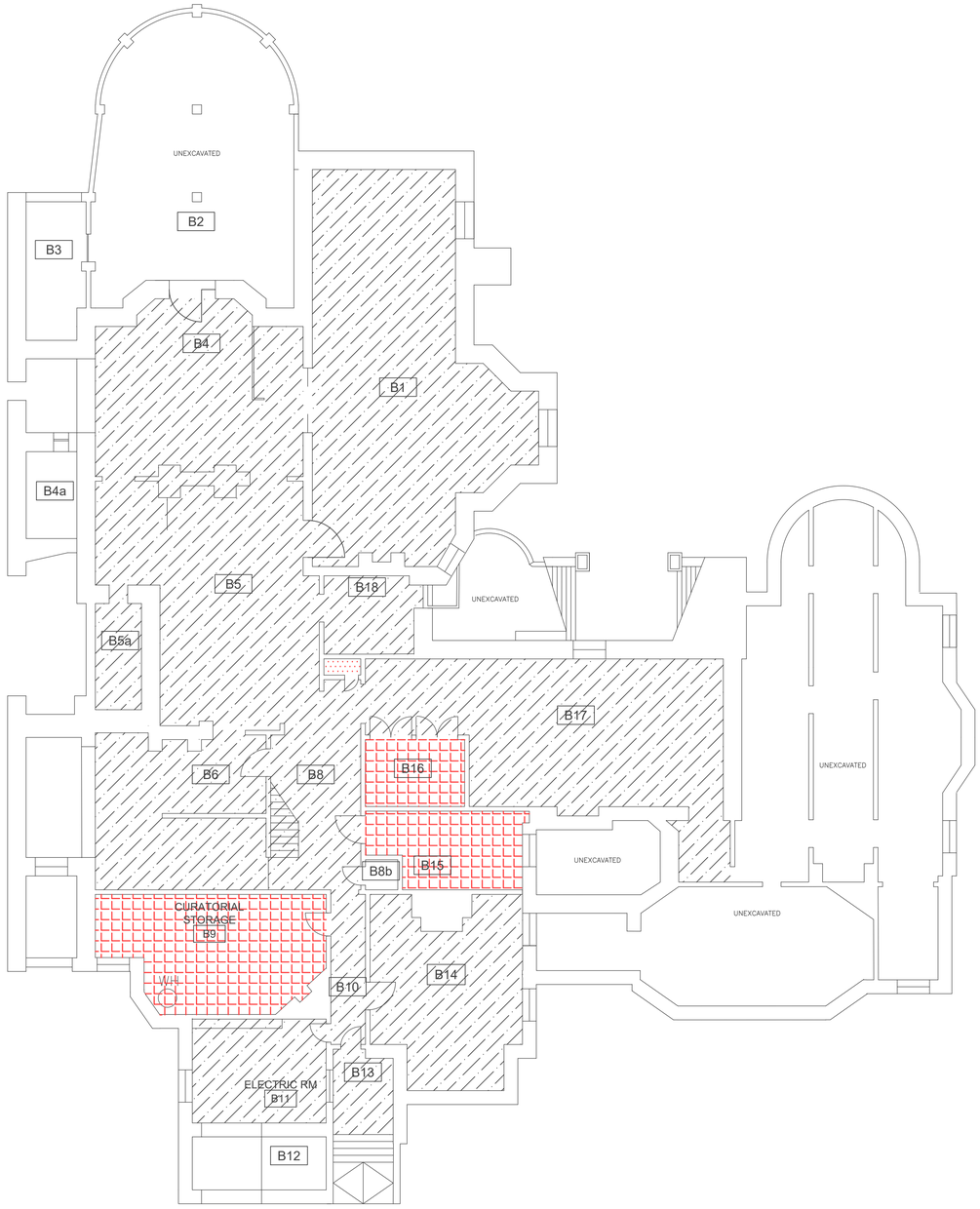


GLENMONT ESTATE MANSION - EAST ELEVATION
NO SCALE

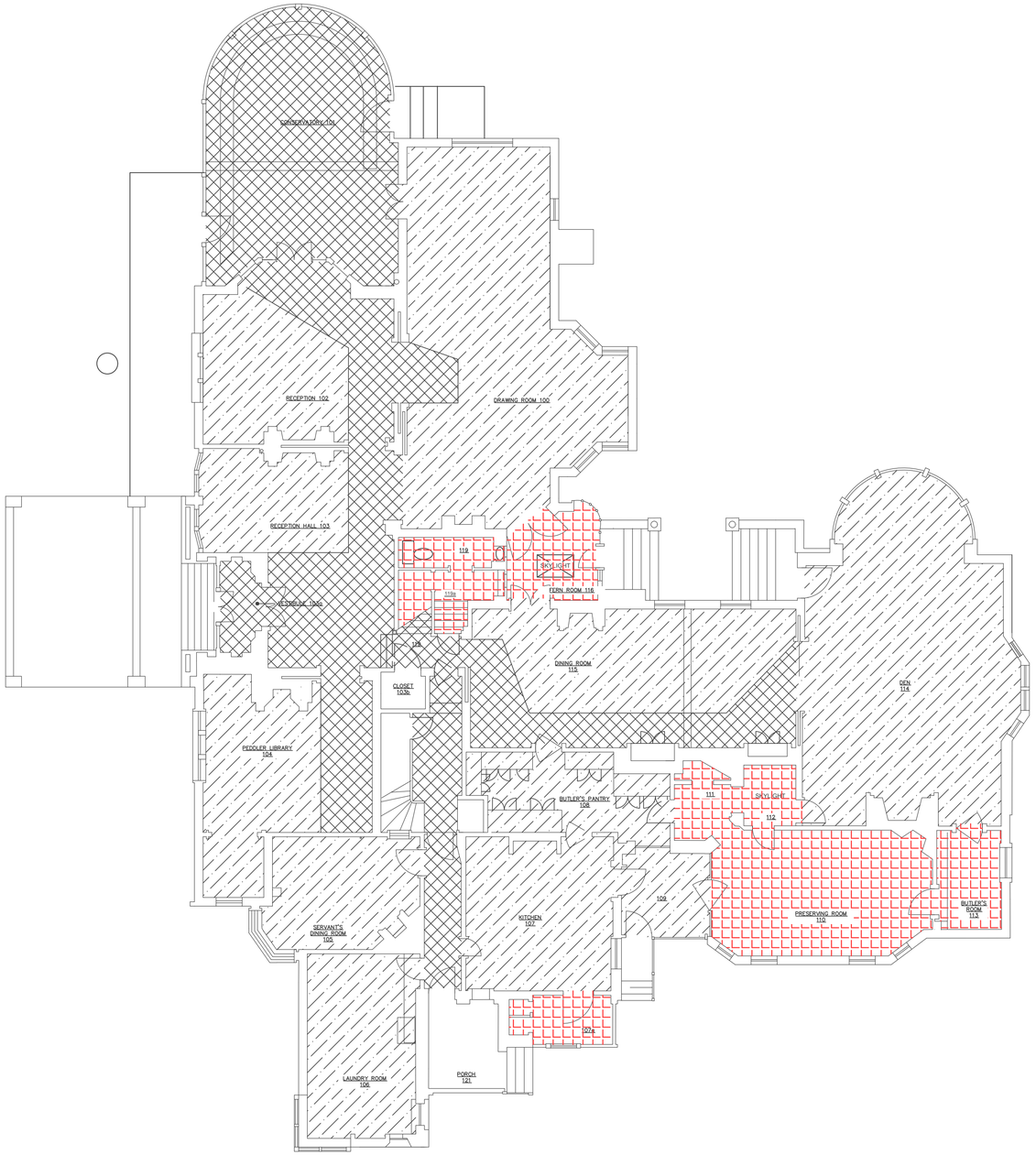
SCALE A 4 0 4 8
SCALE OF FEET

PLAN NORTH

DESIGNED: RT	SUB SHEET NO.	TITLE OF SHEET	DRAWING NO. 403 195112
CADD DT	E.09	ATTIC PLAN	PMIS/PKG NO. 315008
TECH. REVIEW:		INTRUSION DETECTION SYSTEM GLENMONT ESTATE MANSION THOMAS EDISON NATIONAL HISTORICAL PARK	SHEET 10 OF 11
DATE: APR 8 2025			



BASEMENT PLAN



FIRST FLOOR PLAN

PARTITION KEY

NO SHADING STAFF AREA

LIMITED STAFF AREA

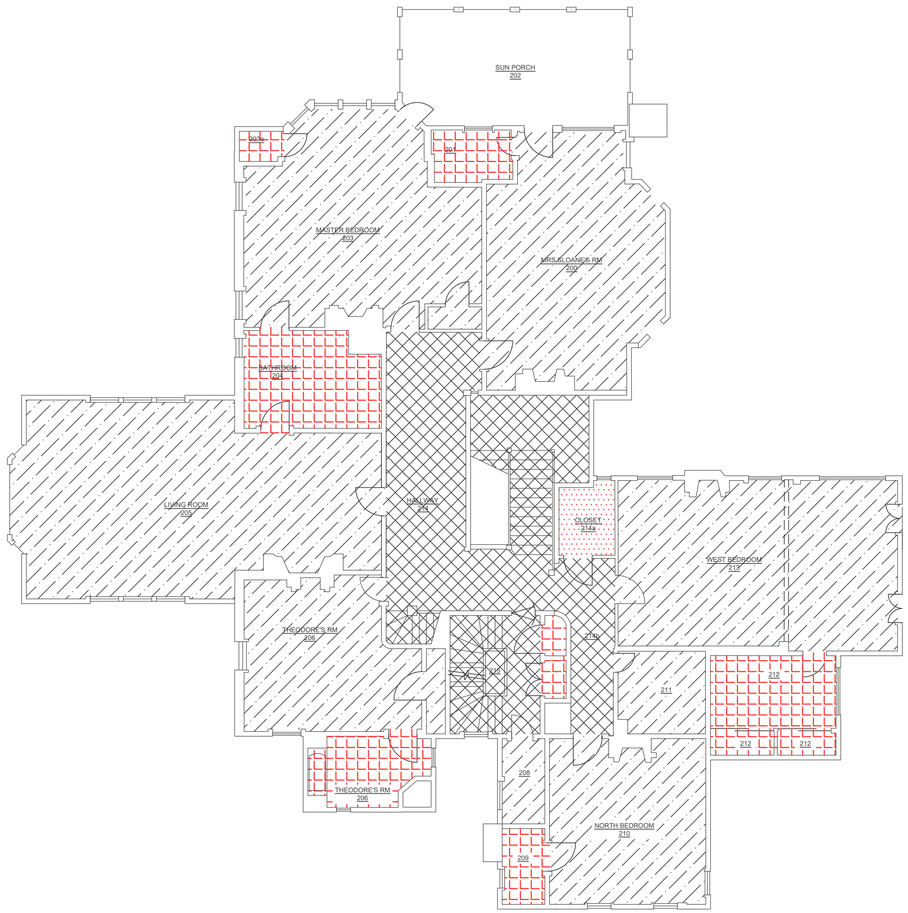
PARTITION AS "LIMITED AREA"

SCALE A 8 0 8 16

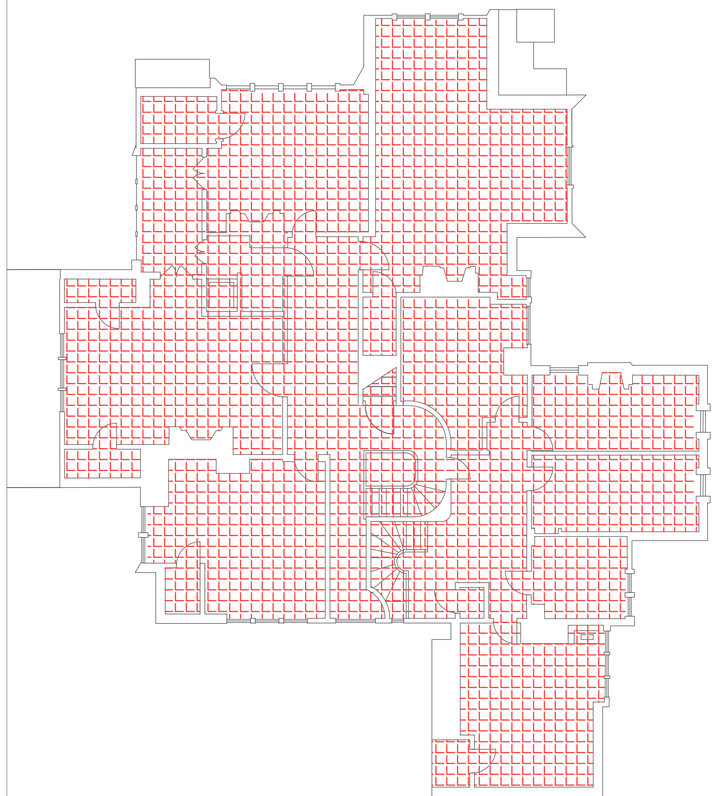
SCALE OF FEET

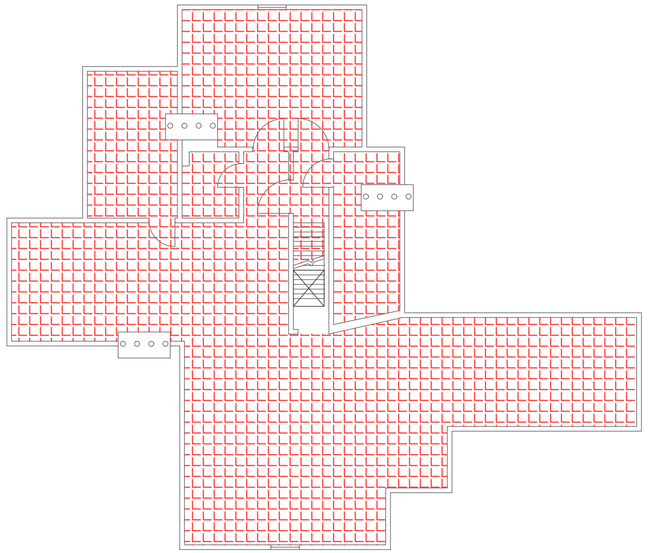
PLAN NORTH

DESIGNED: RT	SUB SHEET NO.	TITLE OF SHEET	DRAWING NO.
CADD DT	E.10	PARTITIONING PLANS BASEMENT & FIRST FLOOR	403 195112
TECH. REVIEW:		INTRUSION DETECTION SYSTEM	PMIS/PKG NO.
DATE: APR 8 2025		GLENMONT ESTATE MANSION THOMAS EDISON NATIONAL HISTORICAL PARK	315008
			SHEET 11 OF 11



SECOND FLOOR PLAN





SECOND FLOOR PLAN

SCALE A 8 0 8 16
SCALE OF FEET

PLAN NORTH

DESIGNED: RT CADD: DT TECH. REVIEW: DATE: APR 8 2025	SUB SHEET NO. E.11	TITLE OF SHEET PARTITIONING PLANS SECOND FLOOR, THIRD FLOOR & ATTIC INTRUSION DETECTION SYSTEM GLENMONT ESTATE MANSION THOMAS EDISON NATIONAL HISTORICAL PARK	DRAWING NO. 403 195112 PMIS/PKG NO. 315008 SHEET 12 OF 11