

NOTES:

- RISER DIAGRAM IS DIAGRAMMATIC AND IS SHOWN TO PROVIDE A GENERAL OVERVIEW OF MAJOR SYSTEM COMPONENTS AND INTERCONNECTIONS. THIS DIAGRAM IS NOT TO BE USED FOR FIELD INSTALLATION PURPOSES.
- ALL WIRING SHALL BE IN CONDUIT, 1-INCH MINIMUM. WIRING SHALL BE PROVIDED ACCORDING TO THE MANUFACTURER'S INSTRUCTIONS.
- PROVIDE ALL ANCILLARY COMPONENTS, HARDWARE, POWER CONNECTIONS AND WIRING AS REQUIRED FOR COMPLETE AND OPERATING DOOR INTERCOM SYSTEM.
- SYSTEM SHALL BE AS MANUFACTURED BY AIPHONE:
 - MASTER STATION: MODEL IX-MV-7B.
 - DOOR INTERCOM STATION: MODEL IX-DVF-P.
 - SELECTIVE DOOR RELEASE ADAPTOR: MODEL IXW-MA. ONE RELAY IXW-MA PER 4 DOORS.
 - POWER SUPPLY: PoE.
 - BACKBOX: SHALL BE INSTALLED WHEN BRICK WALL IS INDICATED. BACKBOX PROVIDED WITH MODEL SBX-LIXDVFP SECURITY LOCK BOX.
 - SECURITY LOCK BOX: MODEL SBX-LIXDVFP SHALL BE INSTALLED FOR AFTER HOURS LOCK DOWN.
- MAXIMUM DISTANCE FROM EACH STATION TO NETWORK DROP IS 328 FEET WITH CAT 6A CABLE.
- PROVIDE PULL STRING FOR FUTURE CARD ACCESS.
- PROVIDE 24 PORT CAT 6A PATCH PANEL (NEW CONSTRUCTION). PROVIDE 24 PORT CAT 5e/6 PATCH PANEL TO MATCH EXISTING (RENOVATION). TERMINATE DOOR AND MASTER STATION CABLES IN PANEL. SUPPLY AND INSTALL PATCH CORDS FOR CONNECTIVITY.
- JACKS FOR AIPHONE TERMINATIONS ARE TO BE YELLOW IN COLOR.
- ONE SECURITY LOCK BOX FOR EACH DOOR STATION.
- CONTACT AIPHONE COMMUNICATIONS (800) 692-0200 FOR FURTHER INFORMATION.
- CONVERTING FROM IX VERSION 1 TO VERSION 2, OR CHANGING FROM AN AX SYSTEM. PROVIDE BACKBOX SBX-LIXDVFP.
- FOR NEW CONSTRUCTION, THE DOOR STATION SHALL BE FLUSH MOUNTED AND FOR A RENOVATION PROJECT THE DOOR STATION MAY BE SURFACE MOUNTED. PROVIDE APPROPRIATE BACKBOX AND SECURITY COVER FOR EACH TYPE OF INSTALLATION.

OUTPUT TO
DOOR STRIKES
(PROVIDED BY DOOR
HARDWARE CONTRACTOR)

18AWG, 2 CONDUCTORS
(PER DOOR STRIKE)

OUTPUT TO
DOOR STRIKES
(PROVIDED BY DOOR
HARDWARE CONTRACTOR)

IXW-MA
(RELAY ADAPTOR)
PoE POWERED

IXW-MA
(RELAY ADAPTOR)
PoE POWERED

LAN

CAT 6A PATCH PANEL (NEW CONSTRUCTION)

CARD
ACCESS HOST
(NOT PROVIDED
BY AIPHONE)

CAT 6e

IX-DVF-P
(DOOR STATION #4)

IX-DVF-P
(DOOR STATION #3)

IX-DVF-P
(DOOR STATION #2)

IX-DVF-P
(DOOR STATION #1)

IX-DVF-P
(DOOR STATION #8)

IX-DVF-P
(DOOR STATION #7)

IX-DVF-P
(DOOR STATION #6)

IX-DVF-P
(DOOR STATION #5)

IX-MV7-HB
(MASTER STATION #1)

IX-MV7-HB
(MASTER STATION #2)

IX-MV7-HB
(MASTER STATION #3)

IX-MV7-HB
(MASTER STATION #4)

IX-MV7-HB
(MASTER STATION #5)

IX-MV7-HB
(MASTER STATION #6)

IX-MV7-HB
(MASTER STATION #7)

IX-MV7-HB
(MASTER STATION #8)

COP-SBX-LIXDVFP (SURFACE MOUNT BOX)
COP-SBX-LIXDFP-F (FLUSH MOUNT BOX)
(SECURITY LOCK BOX)

AP AIPHONE DOOR STATIONS (IX-DF-HID) WITH
STAINLESS STEEL ENCLOSURE PROVIDED BY
MANUFACTURER

MS AIPHONE MASTER STATION (IX-MV)



CHICAGO PUBLIC SCHOOLS
CAPITAL IMPROVEMENT PROGRAM
INFORMATION TECHNOLOGY SERVICES
INFRASTRUCTURE STANDARDS
IP DOOR INTERCOM SERIES 2
SYSTEM DETAIL

DESIGNED CPS				SHEET NO.	
DRAWN CPS				ED.823-2	
CHECKED CPS				PROJECT NUMBER	SCALE
APPROVED CPS				DATE	09/15/25
NO.	DATE	REVISION	BY		