

# WOODLAND ELEMENTARY SCHOOL - SECURITY CAMERAS

## PORTAGE PUBLIC SCHOOLS

Portage, Michigan  
BID DOCUMENTS

### DESIGN TEAM

#### ARCHITECT/ENGINEER

**TowerPinkster**  
Architecture · Engineering · Interiors

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### SITE ADDRESS

PORTAGE PUBLIC SCHOOLS  
1401 WOODLAND DR.  
PORTAGE, MI 49024

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ISSUED FOR DATE

PROJECT TITLE  
WOODLAND ELEMENTARY SCHOOL -  
SECURITY CAMERAS

OWNER  
PORTAGE PUBLIC SCHOOLS

Portage, Michigan




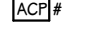



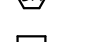
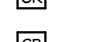
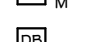
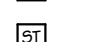
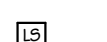
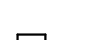
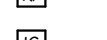


DATE  
NOVEMBER 22, 2024

SHEET TITLE  
COVER SHEET

SHEET NUMBER  
G 001.54  
21-237.50

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**SECURITY SYMBOLS**

	SECURITY CAMERA - WALL	
	SECURITY CAMERA - CEILING	
	SECURITY CABLING PATHWAY, 4 SQ, 5G BRUSH PLATE, 1" CONDUIT STUB	16"
	ACCESS CONTROL PANEL (REFER TO DETAILS)	
	RELEASE BUTTON	
	INTERCOM MASTER STATION	
	LOCKDOWN BUTTON	
	DURES5 ALARM PUSH BUTTON - UNDER DESK	
	CARD READER - 4 SQ BOX, 5G COVER, 3/4" CONDUIT STUB	40"
	CARD READER, MULLION MOUNT, 3/4" CONDUIT STUB	40"
	DOORBELL, 4 SQ BOX, 5G REDUCER, 3/4" CONDUIT STUB	40"
	DOORBELL STROBE, 4 SQ BOX, 5G REDUCER, 3/4" STUB	96"
	LOCKDOWN STROBE (REFER TO DETAILS)	
	KEY PAD - 4 SQ BOX, 5G COVER, 3/4" CONDUIT STUB	40"
	INTERCOM - 4 SQ BOX, 5G COVER, 3/4" CONDUIT STUB	40"
	ACCESS CONTROL DETAIL INDICATOR: REFER TO ACCESS CONTROL DETAILS AND SCHEDULE	

**NOTES:**  
MOUNT DEVICES AT HEIGHTS INDICATED UNLESS INDICATED OTHERWISE ON PLANS. HEIGHTS ARE TO BOTTOM OF DEVICE.

**GENERAL NOTES - SECURITY CAMERA**

- INSTALLATION SHALL BE COMPLETED BY OR OVERSEEN BY A MANUFACTURER CERTIFIED PROFESSIONAL.
- INSTALL CAMERAS USING ALL APPROPRIATE HANGERS, FASTENERS, ETC. CAMERAS INSTALLED IN GRIDLAY IN CEILING SHALL HAVE SAFETY WIRE TYING THE CAMERA TO STRUCTURE ABOVE. EXTERIOR CAMERAS SHALL HAVE WEATHERTIGHT SEALANT AND SURGE SUPPRESSION INSTALLED. REFER TO CAMERA ROUGH IN DETAILS.
- PRIOR TO CONNECTION TO OWNERS NETWORK, DEFAULT USERNAME AND PASSWORD SHALL BE CHANGED. COORDINATE WITH OWNER FOR DEVICE SPECIFIC USERNAMES AND PASSWORDS.
- CAMERA SHALL BE CONFIGURED BASED ON OWNERS NETWORK CONFIGURATION AND NAMING STANDARDS. COMPLETE AN IP ADDRESS REQUEST WITH THE OWNER, COORDINATE NAMING CONFIGURATION BASED ON CAMERA COORDINATION SPREADSHEET.
- INSTALL CAMERAS WITH INITIAL VIEW DEFINED BY THE CAMERA COORDINATION SPREADSHEET OR COVERAGE ANGLES PROVIDED BY ARCHITECT. VARIFOCAL AIMING WHERE REQUIRED TO OBTAIN INTENDED VIEW SHALL BE COMPLETED.
- FOLLOWING SETTING THE INITIAL VIEW, COORDINATE AIMING MODIFICATIONS WITH OWNER AND OBTAIN SIGN OFF PER CAMERA THROUGH THE CAMERA AIMING COORDINATION SPREADSHEET.
- CONFIGURE CAMERA TO RECORD TO NVR BASED ON OWNERS RECORDING CONFIGURATION STANDARDS: RESOLUTION, FRAMES PER SECOND, CONTINUOUSMOTION ACTIVATED RECORDING, ANALYTICS, AND ANY OTHER FEATURES SHALL BE COORDINATED.
- LABEL CAMERA HOUSING IN A LOCATION VISIBLE FROM THE GROUND. REFER TO CAMERA LABELING DETAIL FOR REQUIREMENTS.
- CAMERA SYMBOLS AND COVERAGE ANGLES SHALL BE SET IN VMS MAPS ONCE OWNER HAS SIGNED OFF ON VIEWS.
- THE SCOPE OF WORK FOR THIS PROJECT IS CAMERAS, MOUNTING HARDWARE, AND CAMERA LICENSES FOR THE EXISTING VMS. CAMERA CABLING, NVRs, AND VMS ARE ALREADY PROVIDED.

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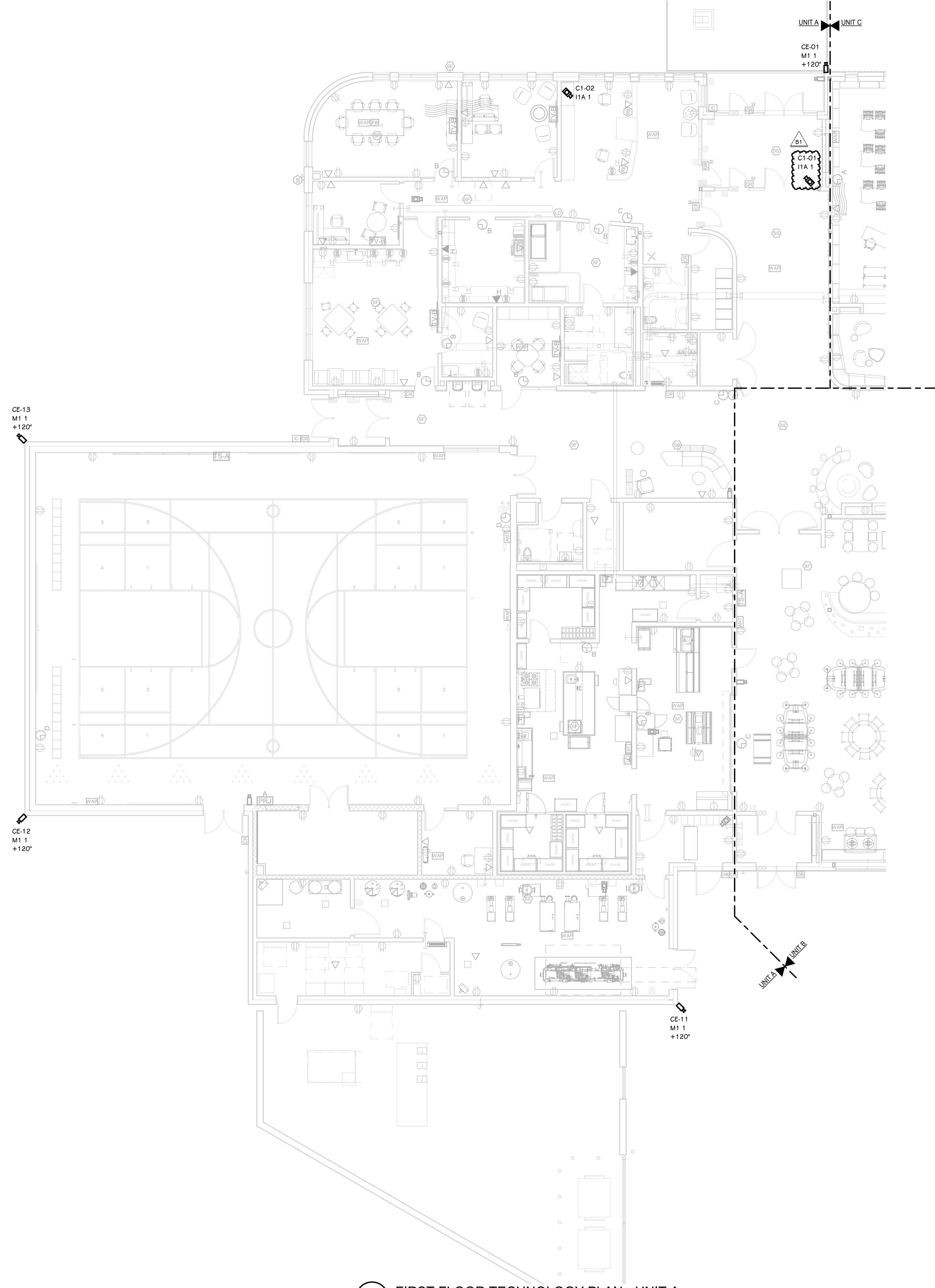
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WOODLAND ELEMENTARY SCHOOL -  
SECURITY CAMERAS

OWNER  
PORTAGE PUBLIC SCHOOLS

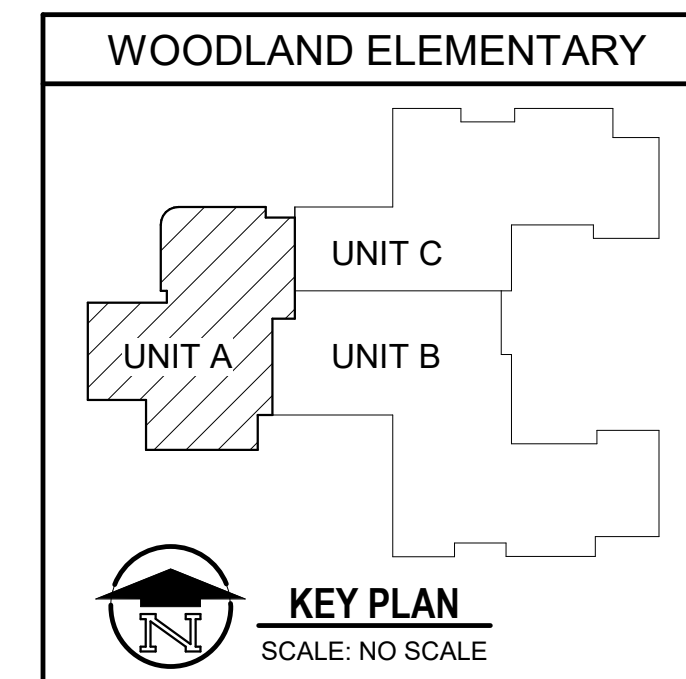
Portage, Michigan

SHEET TITLE  
TECHNOLOGY SYMBOLS AND GENERAL  
NOTES

SHEET NUMBER  
TG 001.54  
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21-237.50



**FIRST FLOOR TECHNOLOGY PLAN - UNIT A**  
1/8" = 1'-0"



**SHEET TITLE**  
FIRST FLOOR TECHNOLOGY PLAN -  
UNIT A

**OWNER**  
PORTAGE PUBLIC SCHOOLS

**PROJECT TITLE**  
WOODLAND ELEMENTARY SCHOOL -  
SECURITY CAMERAS

**BULLETIN NO. 1**      **04/16/2026**  
**ISSUED FOR**              **DATE**

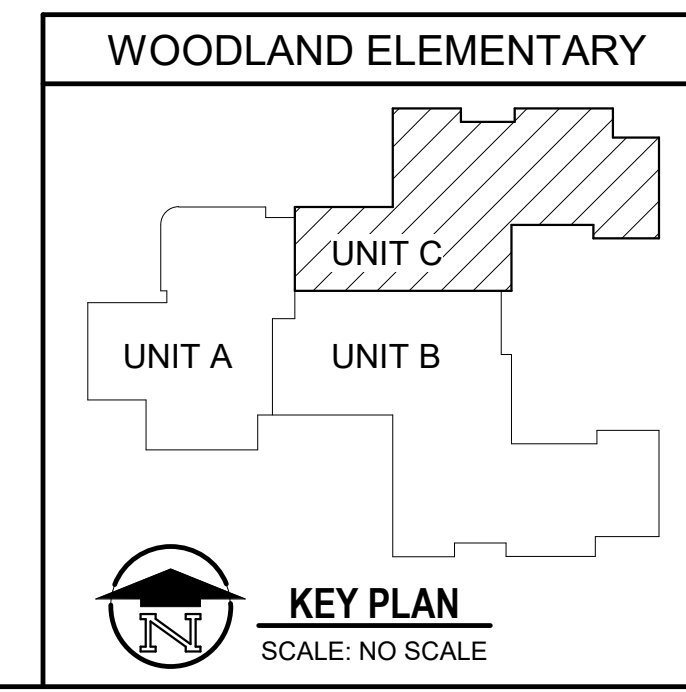
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Portage, Michigan

**DATE**  
NOVEMBER 22, 2024

**SHEET NUMBER**  
**T 101.54A**  
21-237.50



**FIRST FLOOR TECHNOLOGY PLAN - UNIT B**  
1/8" = 1'-0"



SHEET TITLE  
**FIRST FLOOR TECHNOLOGY PLAN - UNIT B**

SHEET NUMBER  
**T 101.54B**  
21-237.50

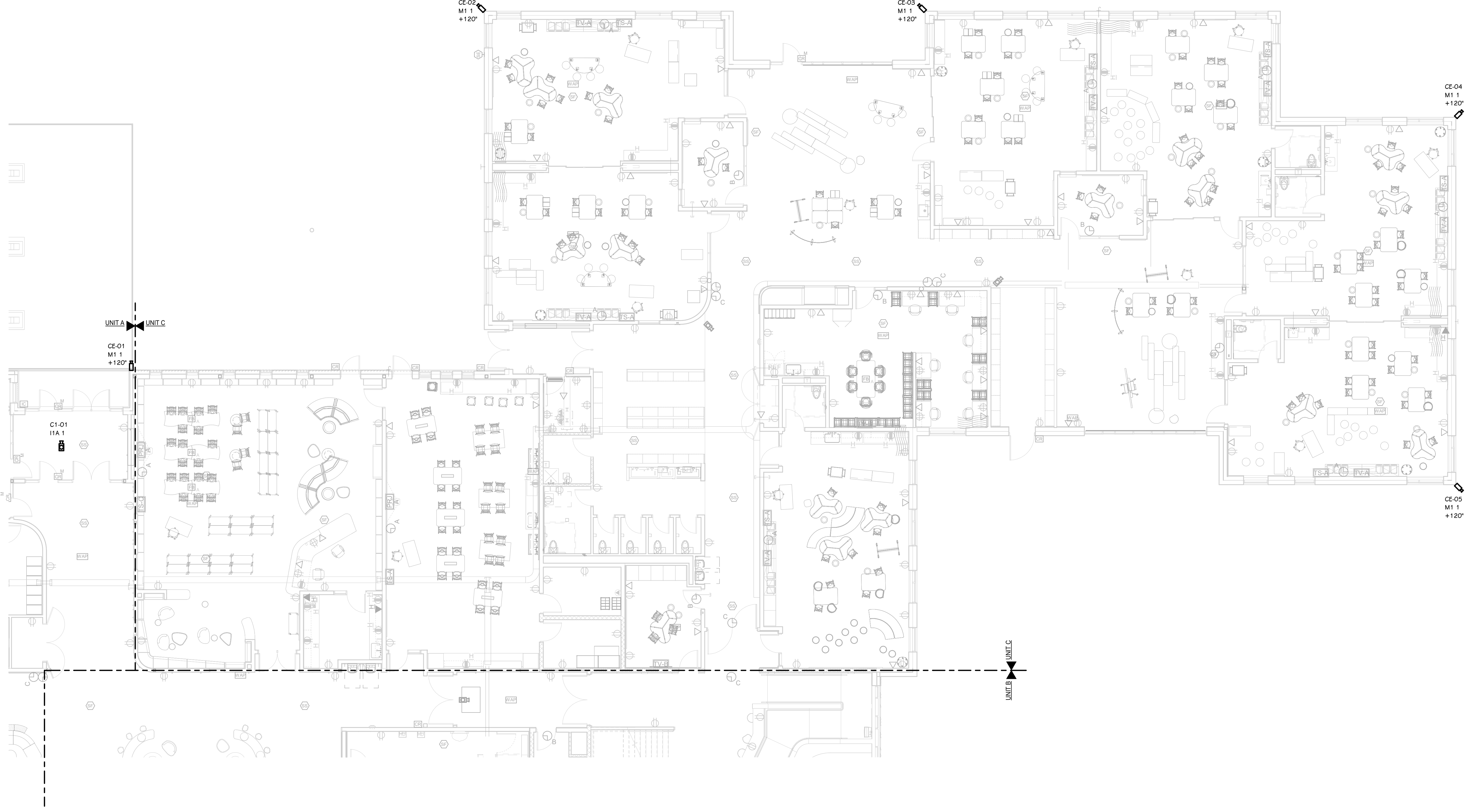
DATE  
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OWNER  
**PORTAGE PUBLIC SCHOOLS**

Portage, Michigan

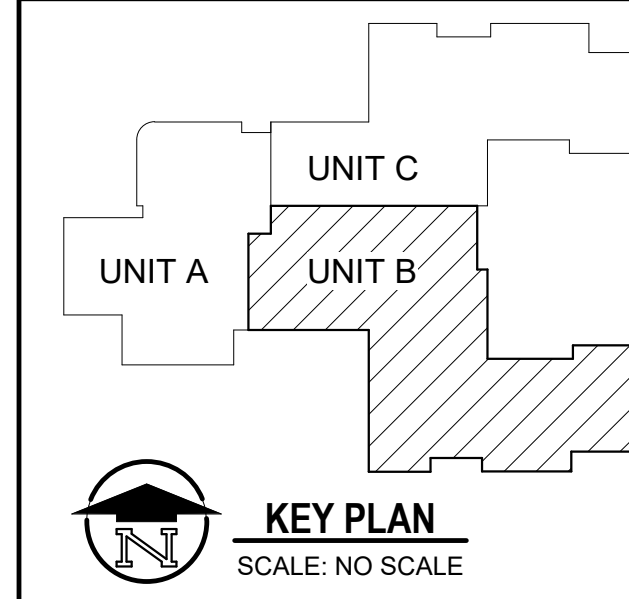
PROJECT TITLE  
**WOODLAND ELEMENTARY SCHOOL - SECURITY CAMERAS**

BULLETIN NO. 1  
ISSUED FOR  
04/16/2026  
DATE



**FIRST FLOOR TECHNOLOGY PLAN - UNIT C**  
 1/8" = 1'-0"

WOODLAND ELEMENTARY



**KEY PLAN**  
 SCALE: NO SCALE

SHEET TITLE  
**FIRST FLOOR TECHNOLOGY PLAN - UNIT C**

OWNER  
**PORTAGE PUBLIC SCHOOLS**

PROJECT TITLE  
**WOODLAND ELEMENTARY SCHOOL - SECURITY CAMERAS**

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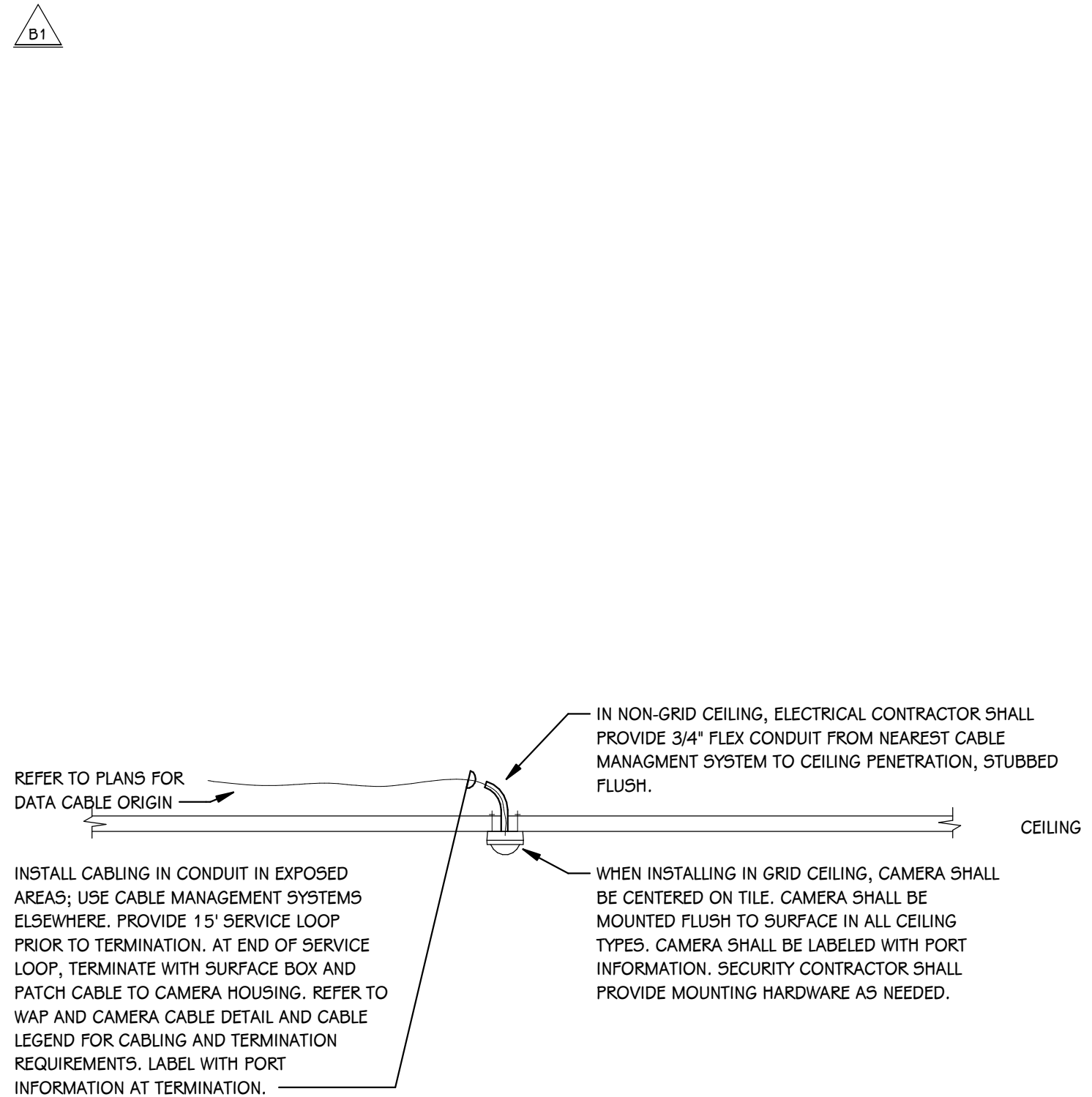
Portage, Michigan

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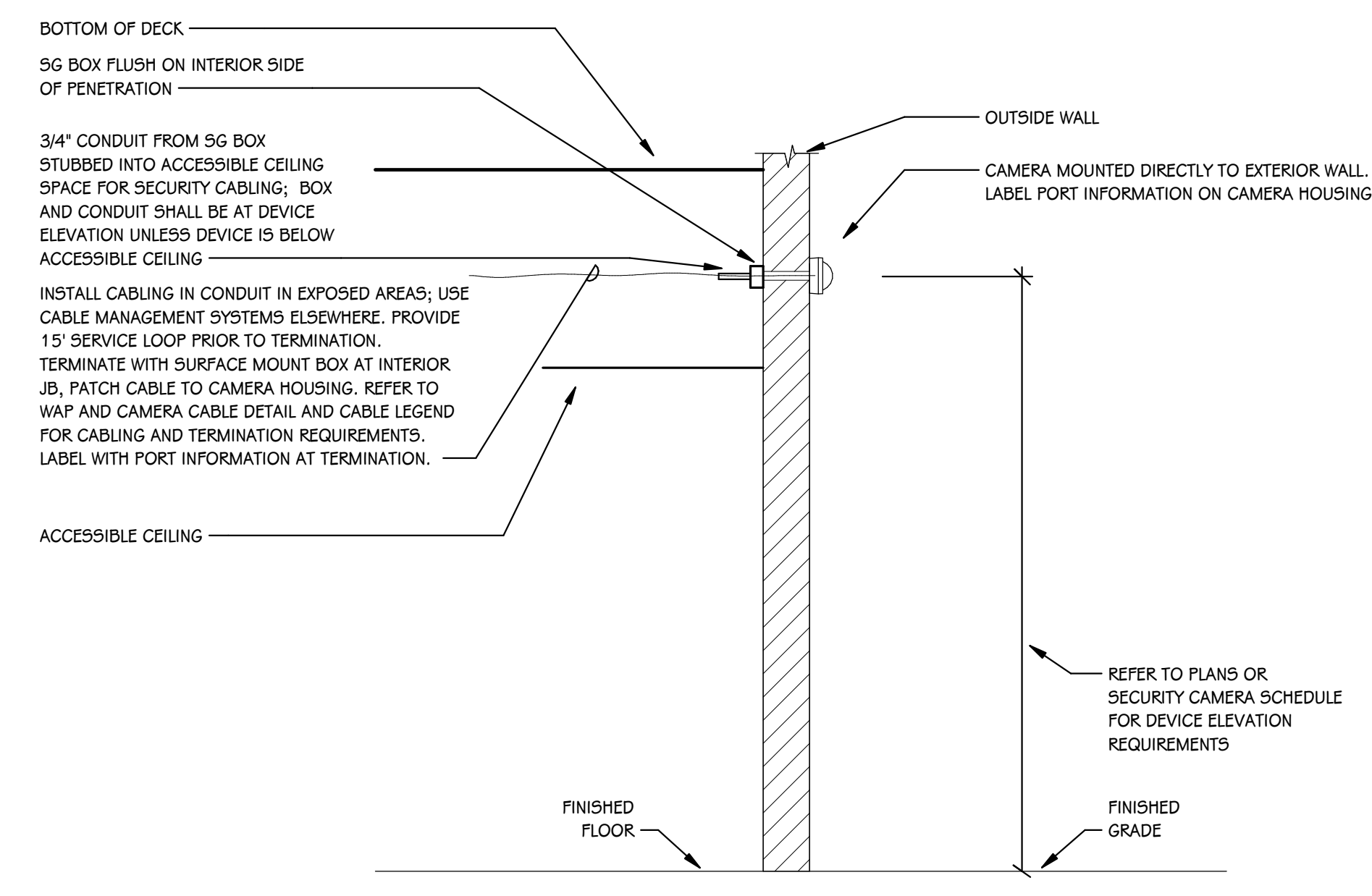
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**SECURITY CAMERA SCHEDULE**

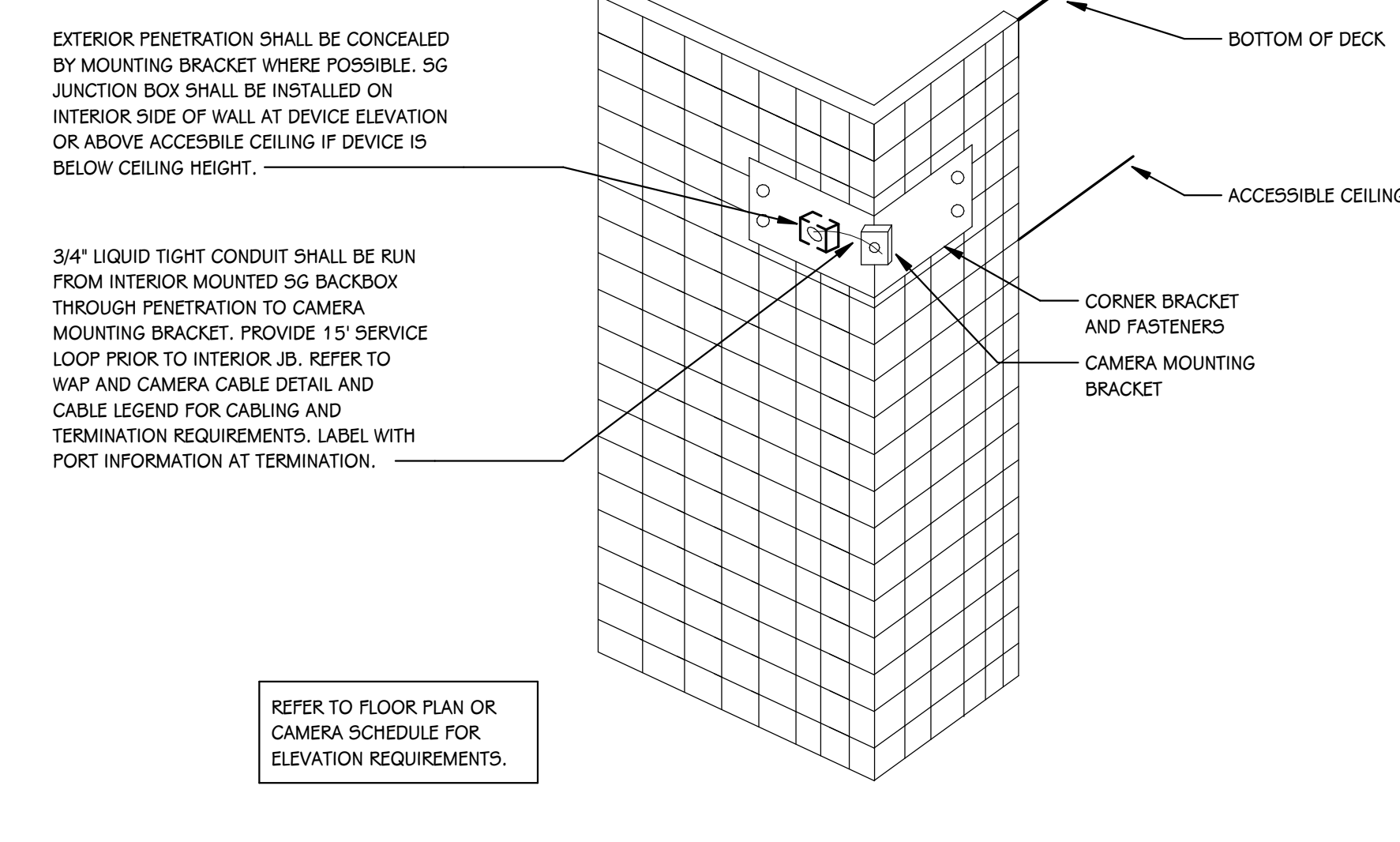
CAMERA NUMBER	MAKE/MODEL	MOUNTING HEIGHT	MOUNTING TYPE	EQUIPMENT ACCESSORIES	DATA DROPS	COMMENTS
C1-01	PND-A90B1RV		CEILING	SBP-160MMW1 + SBP-300CMW	1	
C1-02	PND-A90B1RV		CEILING	N/A	1	
CE-01	PNM-C320B3RVQ	10' - 0"	WALL	SBP-250MMW + SBP-250C	1	
CE-02	PNM-C320B3RVQ	10' - 0"	CORNER	SBP-250MMW + SBP-250C + SBP-156KMW	1	
CE-03	PNM-C320B3RVQ	10' - 0"	CORNER	SBP-250MMW + SBP-250C + SBP-156KMW	1	
CE-04	PNM-C320B3RVQ	10' - 0"	CORNER	SBP-250MMW + SBP-250C + SBP-156KMW	1	
CE-05	PNM-C320B3RVQ	10' - 0"	CORNER	SBP-250MMW + SBP-250C + SBP-156KMW	1	
CE-06	PNM-C320B3RVQ	10' - 0"	WALL	SBP-250MMW + SBP-250C	1	
CE-07	PNM-C320B3RVQ	10' - 0"	CORNER	SBP-250MMW + SBP-250C + SBP-156KMW	1	
CE-08	PNM-C320B3RVQ	10' - 0"	CORNER	SBP-250MMW + SBP-250C + SBP-156KMW	1	
CE-09	PNM-C320B3RVQ	10' - 0"	CORNER	SBP-250MMW + SBP-250C + SBP-156KMW	1	
CE-10	PNM-C320B3RVQ	10' - 0"	CORNER	SBP-250MMW + SBP-250C + SBP-156KMW	1	
CE-11	PNM-C320B3RVQ	10' - 0"	CORNER	SBP-250MMW + SBP-250C + SBP-156KMW	1	
CE-12	PNM-C320B3RVQ	10' - 0"	CORNER	SBP-250MMW + SBP-250C + SBP-156KMW	1	
CE-14	PNM-C320B3RVQ	10' - 0"	CORNER	SBP-250MMW + SBP-250C + SBP-156KMW	1	



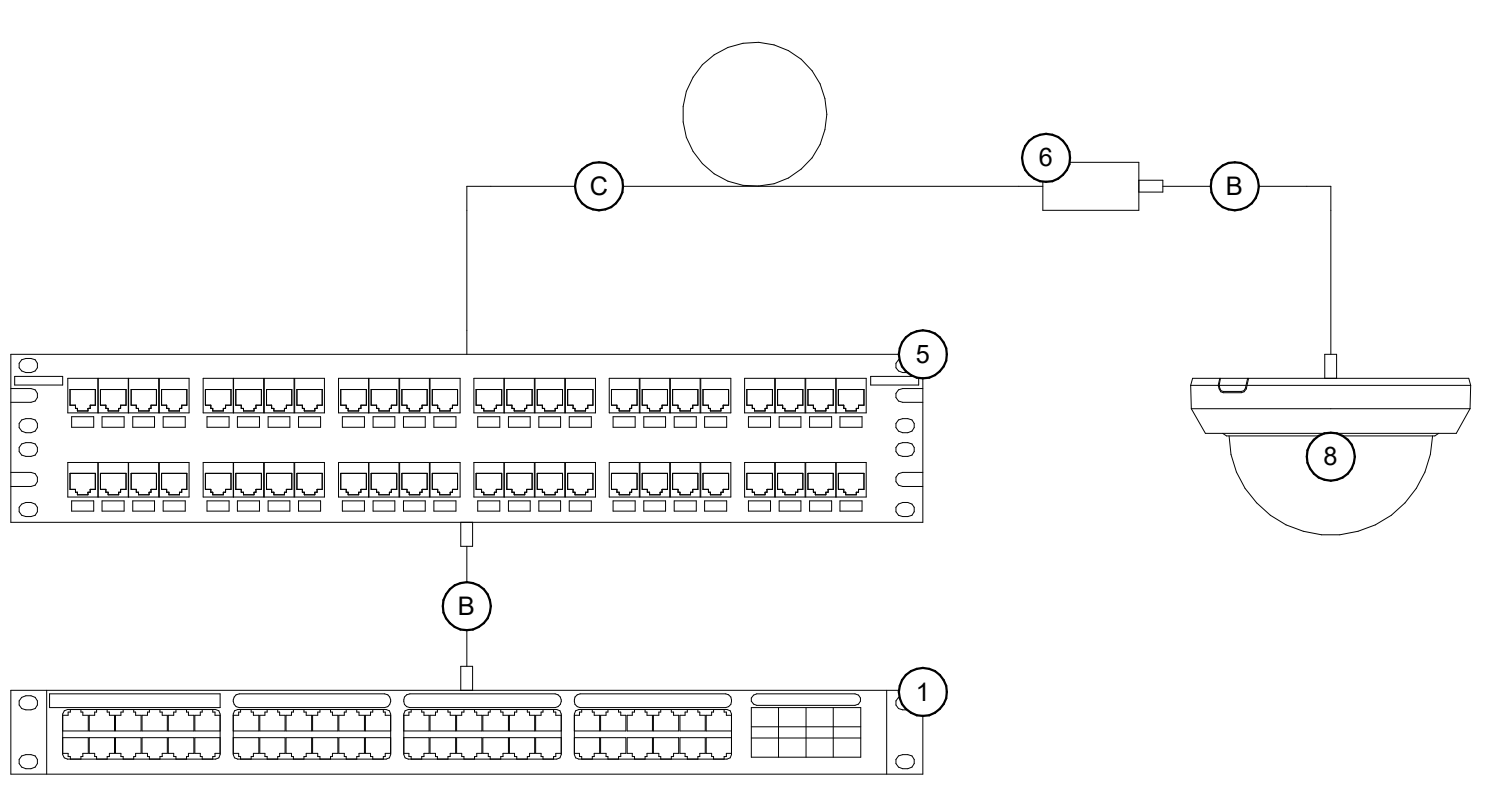
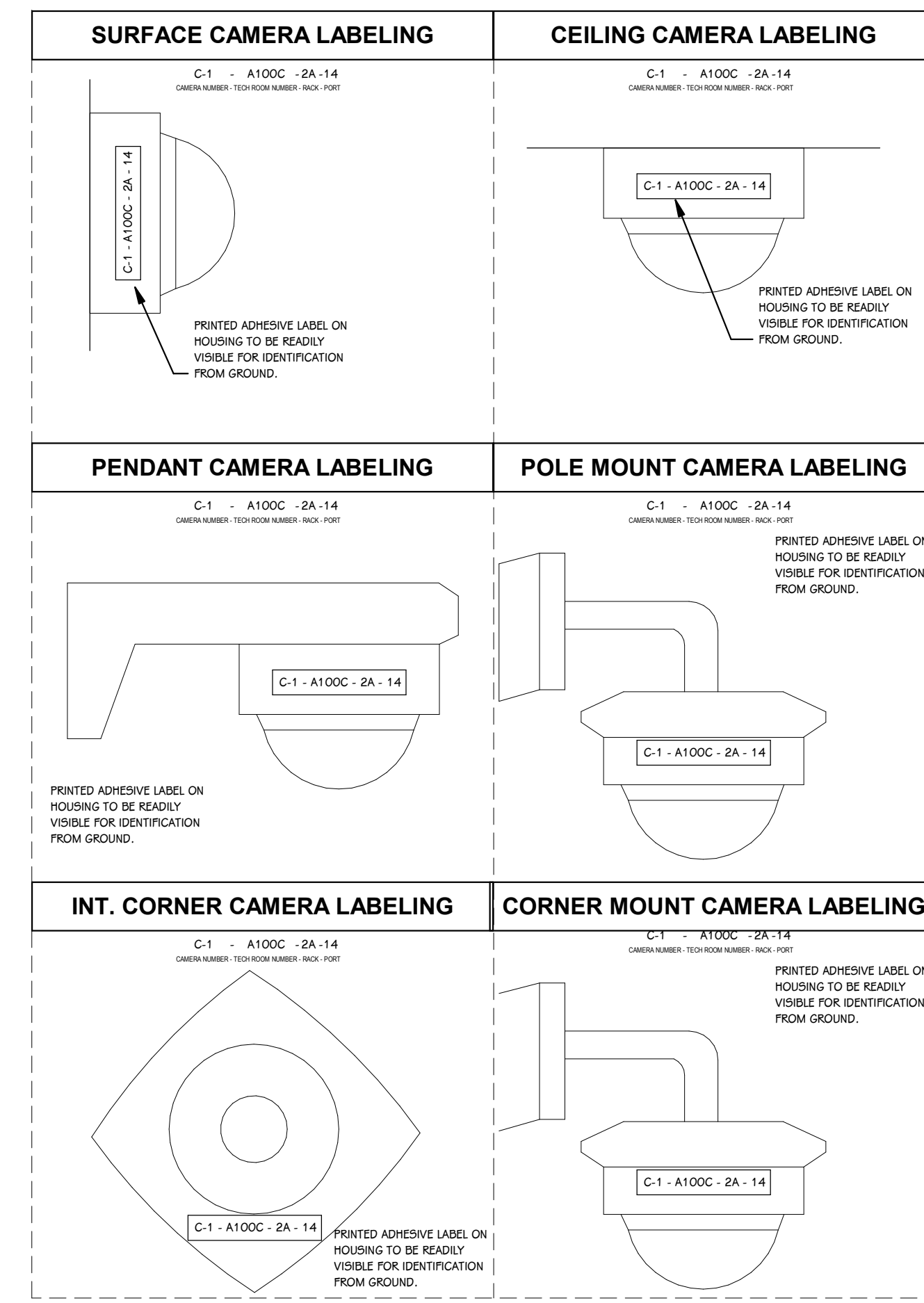
**TYPICAL SECURITY CAMERA ROUGH-IN - CEILING**  
SCALE: NONE



**TYPICAL SECURITY CAMERA ROUGH-IN - EXTERIOR WALL**  
SCALE: NONE

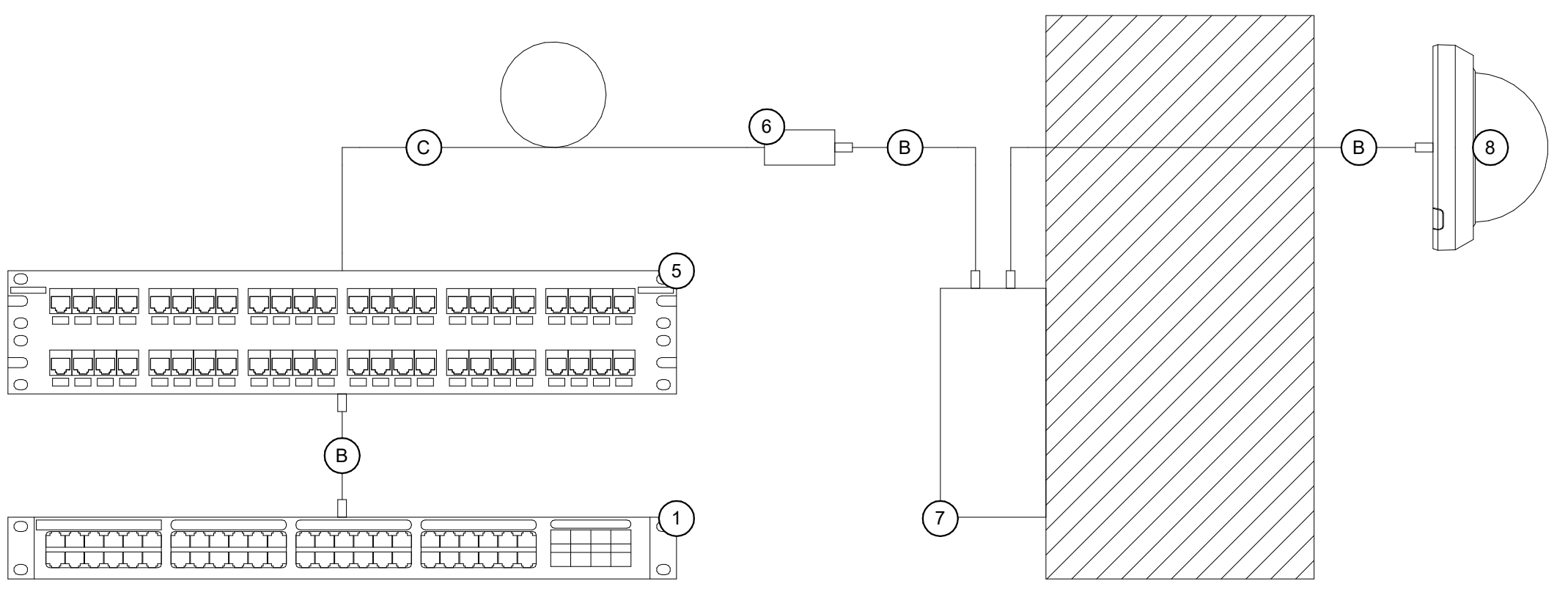


**EXTERIOR CORNER MOUNT CAMERA**  
SCALE: NONE



**INTERIOR SECURITY CAMERA CABLING DETAIL**  
SCALE: NONE

INTERIOR CAMERA EQUIPMENT SCHEDULE				
KEY #	DESCRIPTION	MANUFACTURER	PART #	COMMENTS
1	NETWORK SWITCH	PROVIDED BY OWNER	PROVIDED BY OWNER	
5	PATCH PANEL	REFER TO RACK SCHEDULE	REFER TO RACK SCHEDULE	
6	SURFACE MOUNT BOX	REFER TO SCHEDULE	REFER TO SCHEDULE	
8	CAMERA	SEE CAMERA SCHEDULE	SEE CAMERA SCHEDULE	
B	PATCH CORD	REFER TO SCHEDULE	REFER TO SCHEDULE	
C	CATEGORY CABLE	REFER TO SCHEDULE	REFER TO SCHEDULE	INCLUDE MINIMUM 15FT SERVICE LOOP



**EXTERIOR SECURITY CAMERA CABLING DETAIL**  
SCALE: NONE

EXTERIOR CAMERA EQUIPMENT SCHEDULE				
KEY #	DESCRIPTION	MANUFACTURER	PART #	COMMENTS
1	NETWORK SWITCH	PROVIDED BY OWNER	PROVIDED BY OWNER	
5	PATCH PANEL	REFER TO RACK SCHEDULE	REFER TO RACK SCHEDULE	
6	SURFACE MOUNT BOX	REFER TO SCHEDULE	REFER TO SCHEDULE	
7	ETHERNET SURGE PROECTOR	TRIPPLITE	B110-SP-POE-1	ONLY NEEDED FOR CAMERAS THAT ARE NOT MOUNTED DIRECTLY TO BUILDING
8	CAMERA	SEE CAMERA SCHEDULE	SEE CAMERA SCHEDULE	
B	PATCH CORD	REFER TO SCHEDULE	REFER TO SCHEDULE	
C	CATEGORY CABLE	REFER TO SCHEDULE	REFER TO SCHEDULE	INCLUDE MINIMUM 15FT SERVICE LOOP