

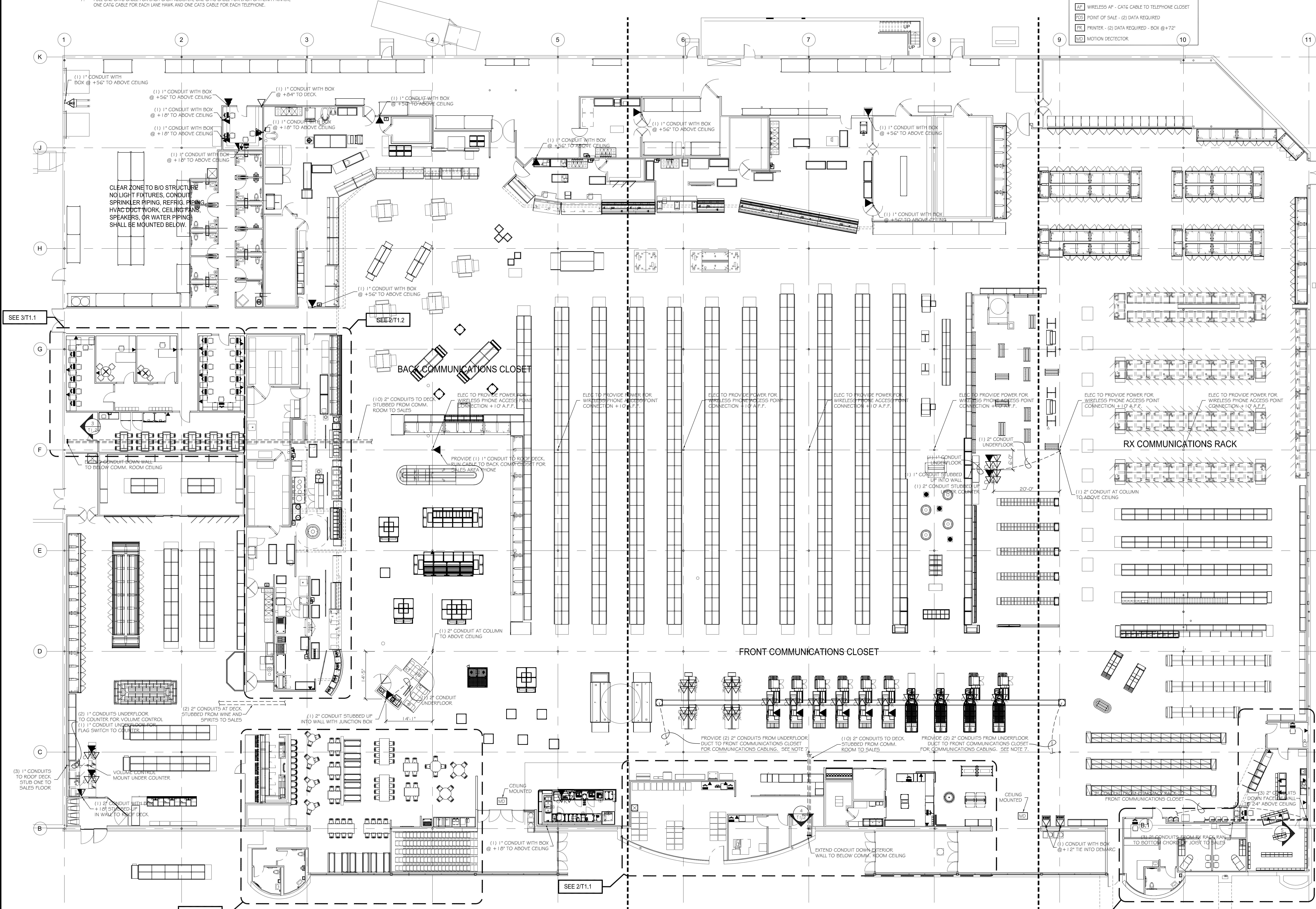
COMMUNICATIONS PLAN NOTES:

1. REFER TO E2.0 SHEETS FOR CIRCUIT AND ADDITIONAL INFORMATION.
2. 2" CONDUIT WITH FILLWIRE FOR OWNER FURNISHED REMOTE READER, COORDINATE LOCATION WITH OWNER.
3. 2" CONDUIT WITH FILLWIRE TO TOWER PROCESSOR FOR COMMUNICATIONS CABLE.
4. CUSTOMER SERVICE CONDUIT STUB UP LOCATION. ALL CONDUITS ROUTED TO THIS LOCATION AND BRANCH CIRCUITS, TELEPHONE AND NCR CABLES TO BE ROUTED IN CASEWORK AS REQUIRED. VERIFY NUMBER AND SIZE OF CONDUITS.
5. 1" CONDUIT WITH FILLWIRE FOR COMPUTER LOOP AND CABLE T.V. ROUTE CONDUIT TO ABOVE CEILING.
6. PROVIDE 4" CONDUIT FOR TELEPHONE SERVICE AND 2" CONDUIT FOR CABLE TV OUT TO 5' BEYOND BUILDING LINE.
7. PULL ONE CAT6 CABLE FOR EACH CASH REGISTER, ONE CAT6 CABLE FOR EACH CATALINA PRINTER, ONE CAT6 CABLE FOR EACH LANE HAWK AND ONE CAT3 CABLE FOR EACH TELEPHONE.

- NOTES:
1. ALL EXPOSED WIRING TO BE IN 1" CONDUIT UNLESS OTHERWISE NOTED.
  2. PULLSTRUNG REQUIRED IN ALL UNDERGROUND CONDUIT.
  3. ALL UNDERGROUND CONDUIT TO HAVE WATER REMOVED BEFORE CABLEING CONTRACTOR WORK BEGINS.

COMMUNICATIONS PLAN SYMBOLS:

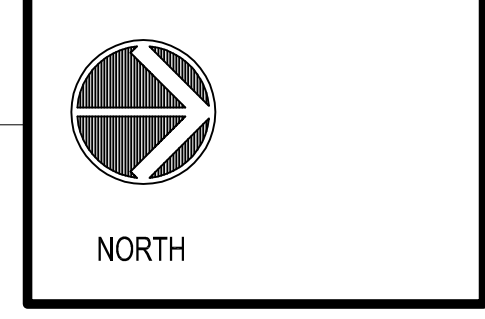
▼	TELEPHONE DATA OUTLET - CAT6
▽	TELEPHONE OUTLET - CAT6
▽	COMPUTER DATA OUTLET - CAT6
▽	CATALINA DATA OUTLET - CAT6
⊗	REGISTER DATA OUTLET - CAT6
○	JUNCTION BOX
AP	WIRELESS AP - CAT6 CABLE TO TELEPHONE CLOSET
POS	POINT OF SALE - (2) DATA REQUIRED
PK	PRINTER - (2) DATA REQUIRED - BOX @ +72"
MD	MOTION DETECTOR



LOCATION: LEES SUMMIT #2, MO

HY-VEE INC.  
5820 WESTOWN PARKWAY  
WEST DES MOINES, IOWA 50266  
TEL: (515) 267-2800  
FAX: (515) 267-2835

**Hy-Vee**  
EMPLOYEE OWNED



COMMUNICATIONS PLAN

DRAWN: BP  
SCALE: 3/32" = 1'-0"  
SHEET:

DATE: OCT. 2020  
JOB NUMBER:

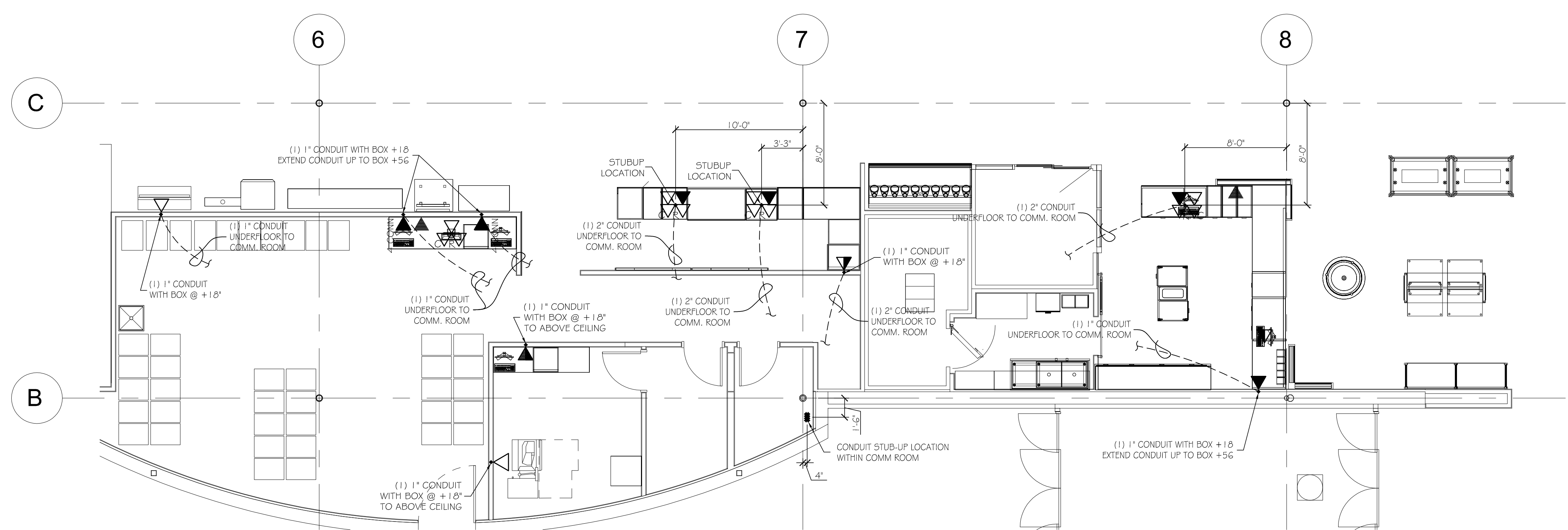
T1.0

1 COMMUNICATIONS PLAN  
SCALE: 3/32" = 1'-0"

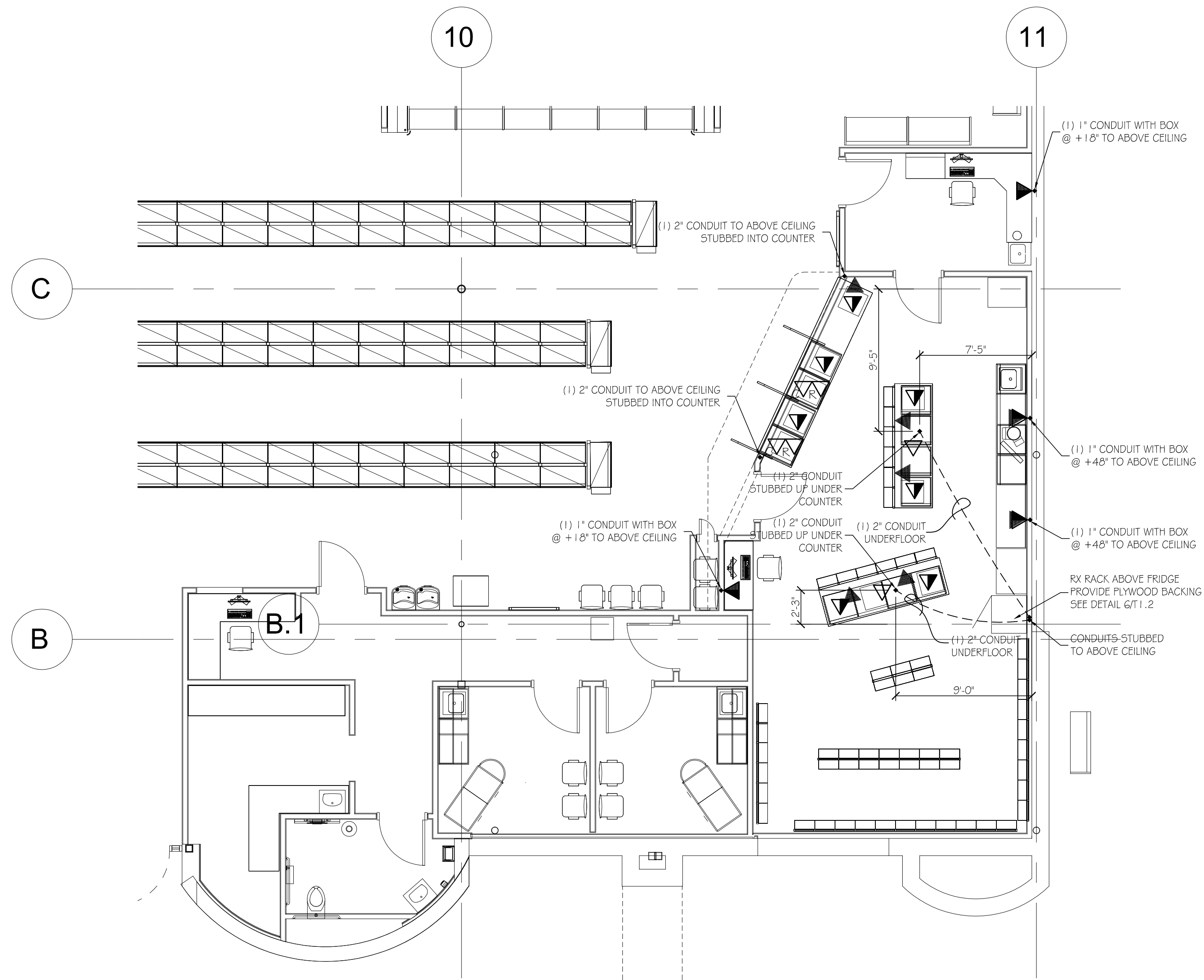


- COMMUNICATIONS PLAN SYMBOLS:
- TELEPHONE DATA OUTLET - CAT6
  - TELEPHONE OUTLET - CAT6
  - COMPUTER DATA OUTLET - CAT6
  - CATALINA DATA OUTLET - CAT6
  - REGISTER DATA OUTLET - CAT6
  - JUNCTION BOX
  - WIRELESS AP - CAT6 CABLE TO TELEPHONE CLOSET
  - POINT OF SALE - (2) DATA REQUIRED
  - PRINTER - (2) DATA REQUIRED - BOX @ +72"
  - MOTION DETECTOR

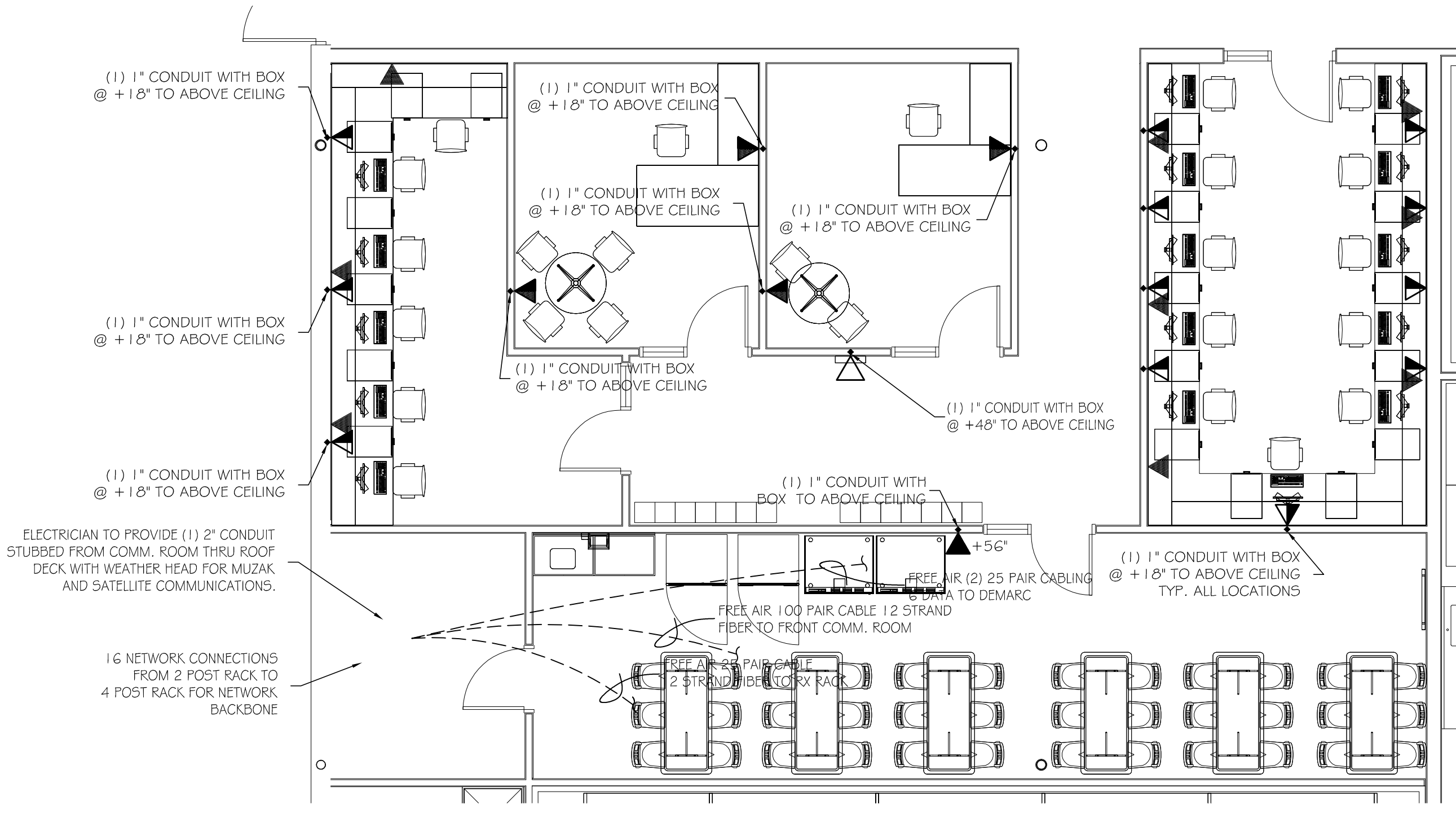
- NOTES:
- ALL EXPOSED WIRING TO BE IN 1" CONDUIT UNLESS OTHERWISE NOTED.
  - PULLSTRING REQUIRED IN ALL UNDERGROUND CONDUIT.
  - ALL UNDERGROUND CONDUIT TO HAVE WATER REMOVED BEFORE CABLEING CONTRACTOR WORK BEGINS.



2 ENLARGED COMMUNICATIONS PLAN - CUSTOMER SERVICE/FLORAL  
SCALE: 3/16" = 1'-0"



1 ENLARGED COMMUNICATIONS PLAN - PHARMACY AND CLINIC  
SCALE: 3/16" = 1'-0"



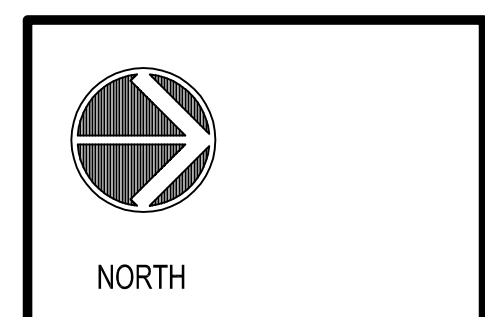
3 ENLARGED COMMUNICATIONS PLAN - OFFICE  
SCALE: 3/16" = 1'-0"



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**Hy-Vee**  
EMPLOYEE OWNED



ENLARGED COMMUNICATIONS PLANS

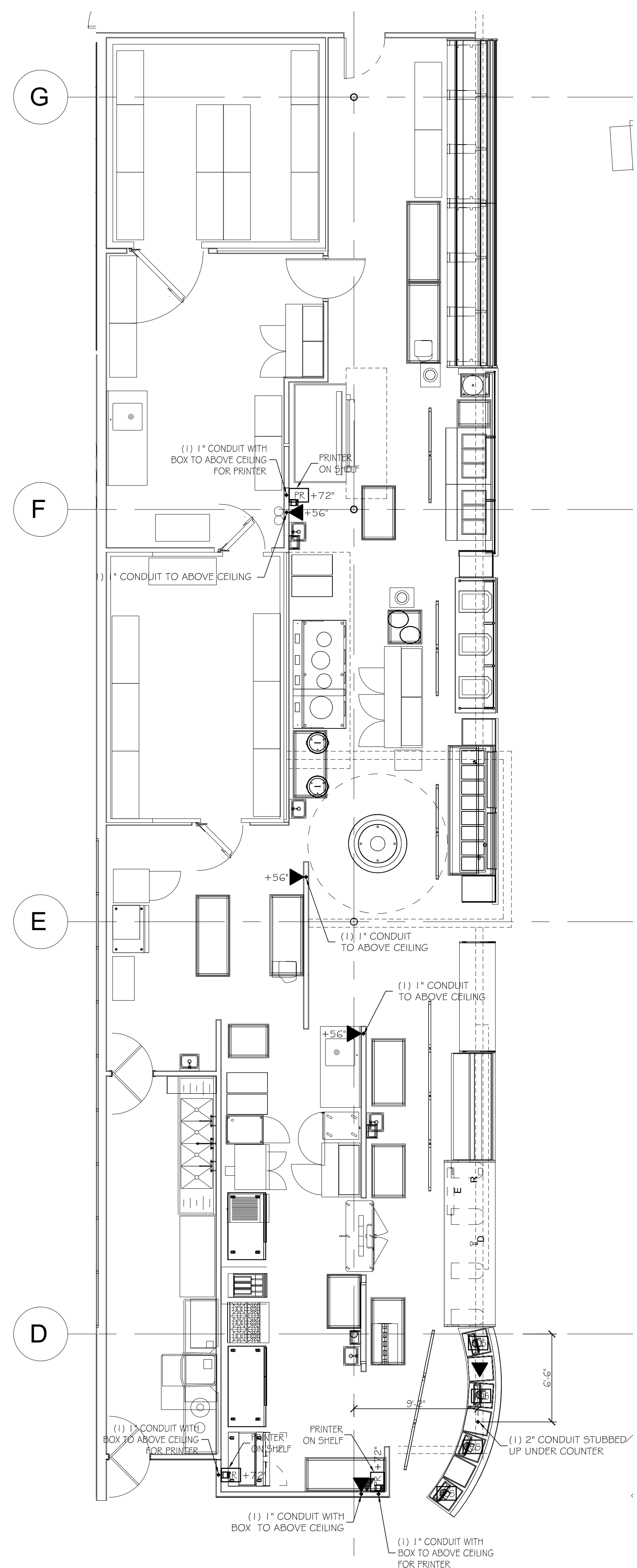
DRAWN: BP	DATE: OCT. 2020
SCALE: SEE SHEET	JOB NUMBER:
SHEET:	

T1.1

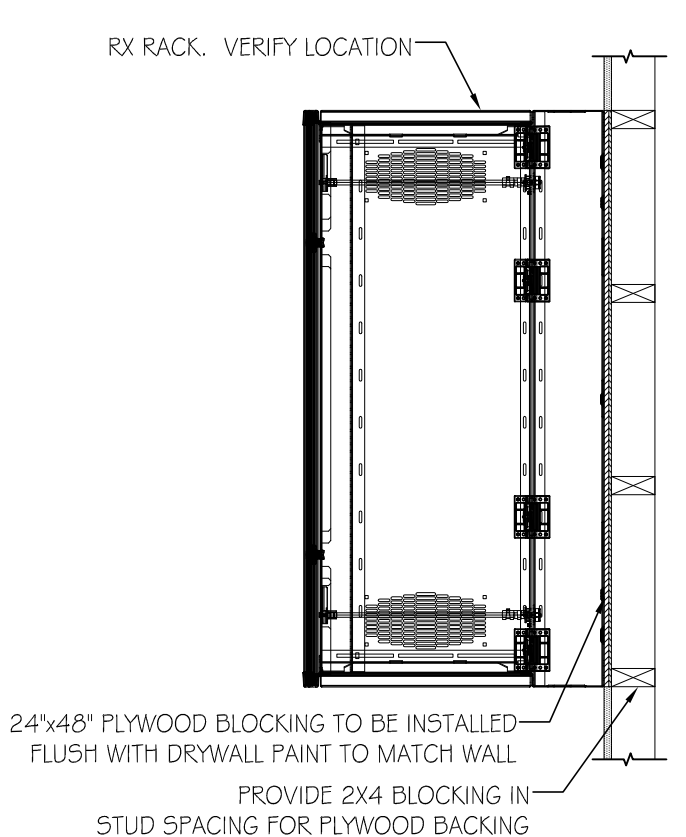


- COMMUNICATIONS PLAN SYMBOLS:
- TELEPHONE/DATA OUTLET - CAT6
  - TELEPHONE OUTLET - CAT6
  - COMPUTER DATA OUTLET - CAT6
  - CATALINA DATA OUTLET - CAT6
  - REGISTER DATA OUTLET - CAT6
  - JUNCTION BOX
  - WIRELESS AP - CAT6 CABLE TO TELEPHONE CLOSET
  - POINT OF SALE - (2) DATA REQUIRED
  - PRINTER - (2) DATA REQUIRED - BOX @+72"
  - MOTION DETECTOR

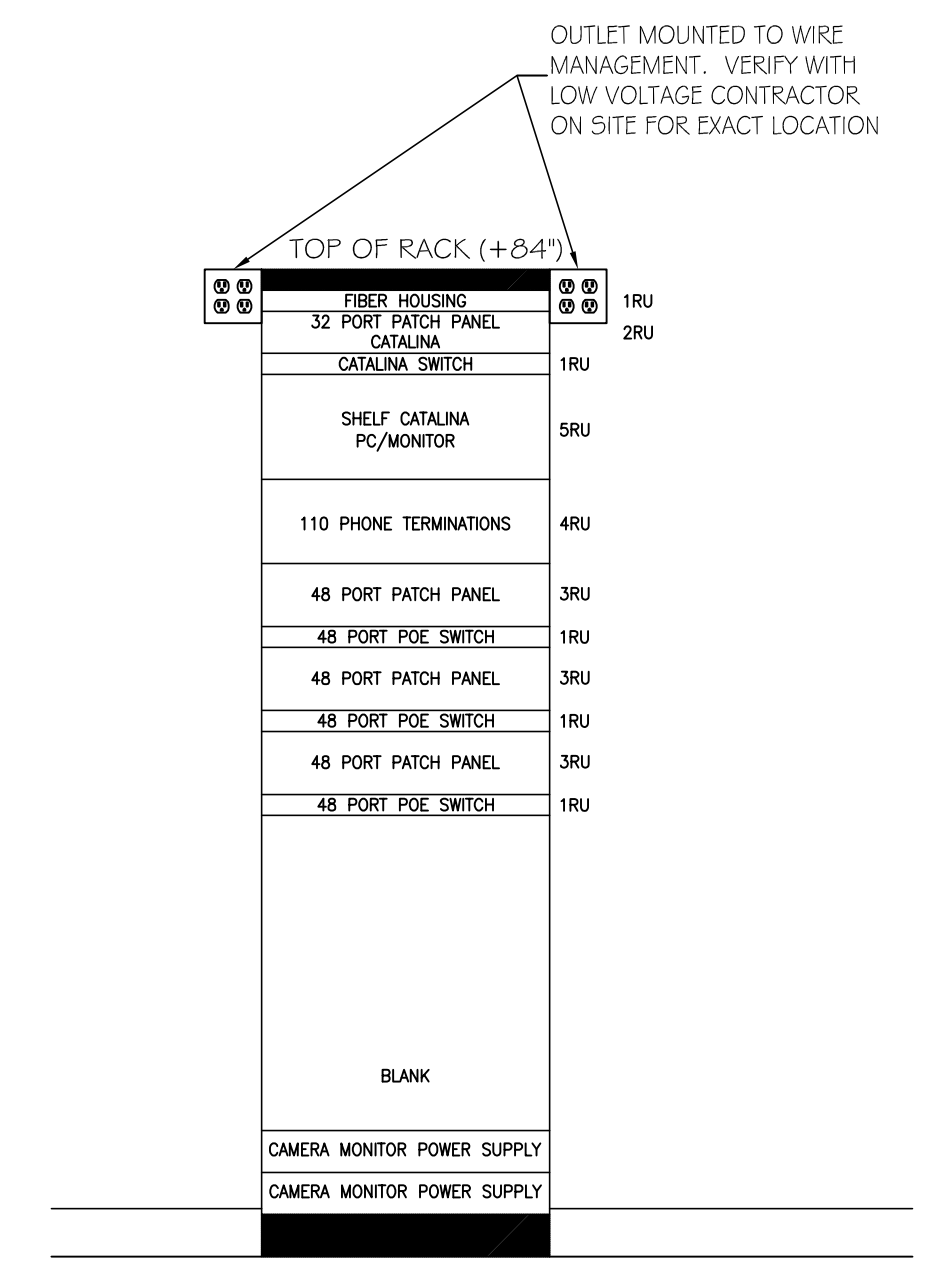
NOTES:  
1. ALL EXPOSED WIRING TO BE IN 1" CONDUIT UNLESS OTHERWISE NOTED.  
2. FULLSTRING REQUIRED IN ALL UNDERGROUND CONDUIT.  
3. ALL UNDERGROUND CONDUIT TO HAVE WATER REMOVED BEFORE CABLING CONTRACTOR WORK BEGINS.



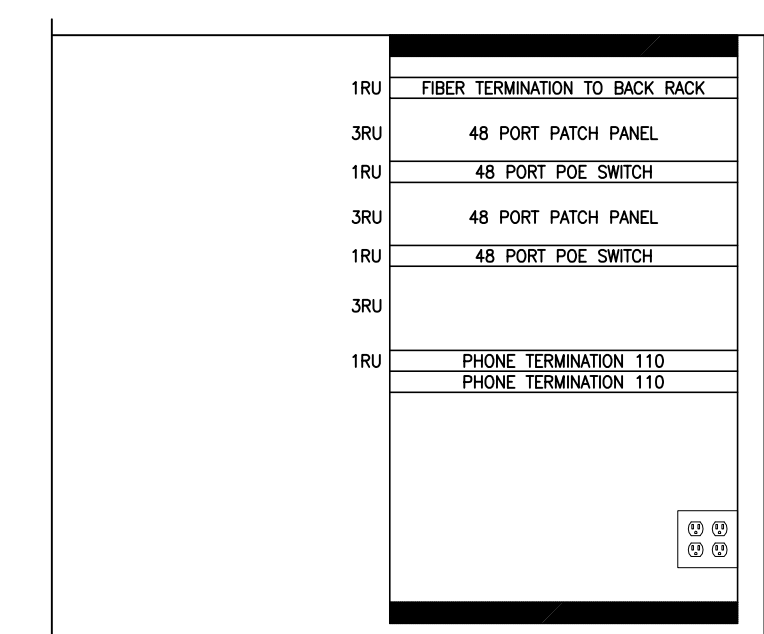
2 ENLARGED COMMUNICATIONS PLAN - KITCHEN  
SCALE: 3/16" = 1'-0"



6 RX COMMUNICATIONS RACK ELEVATION  
SCALE: 3/4" = 1'-0"

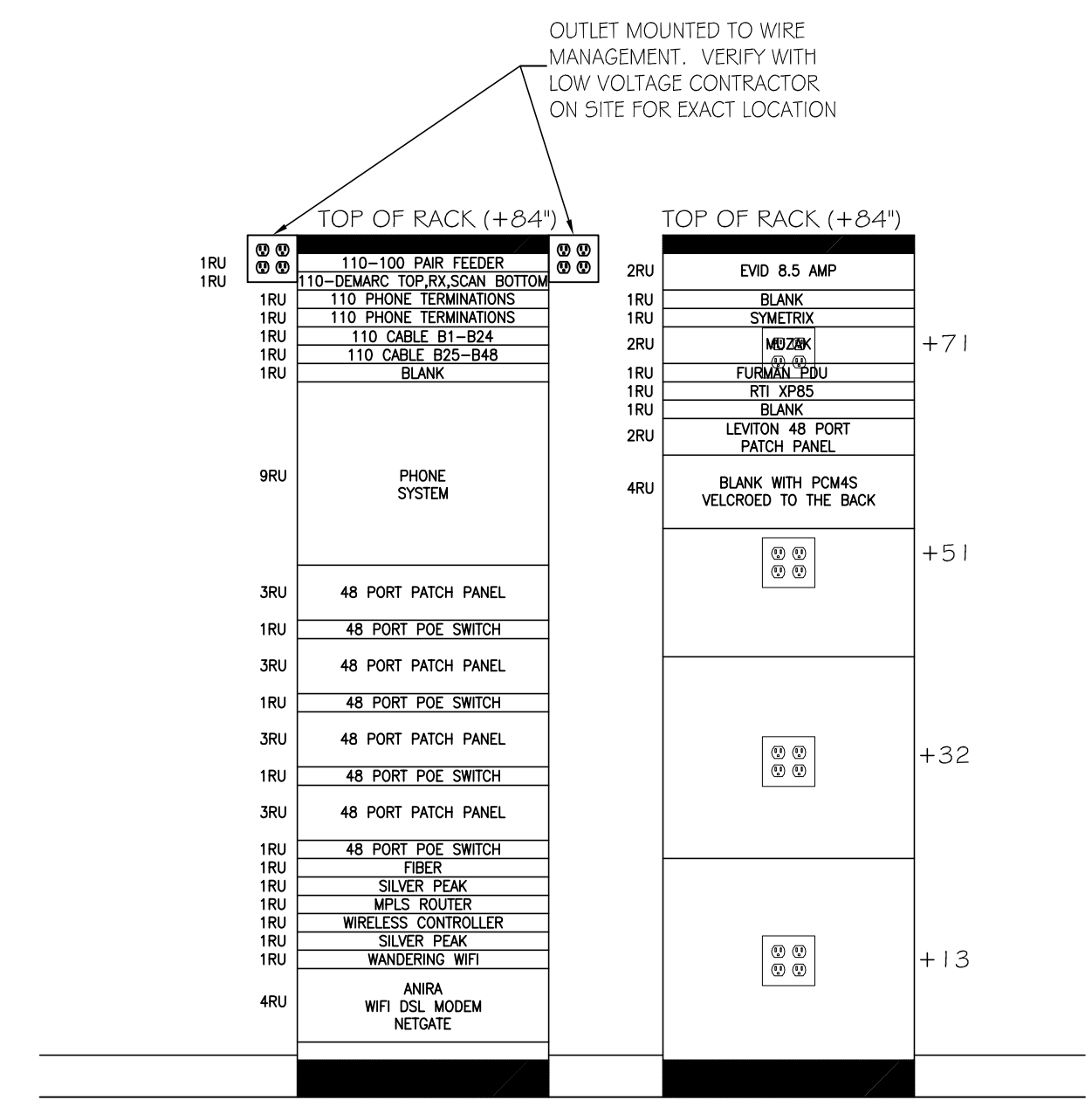


4 FRONT COMMUNICATIONS RACK ELEVATION  
SCALE: 3/4" = 1'-0"



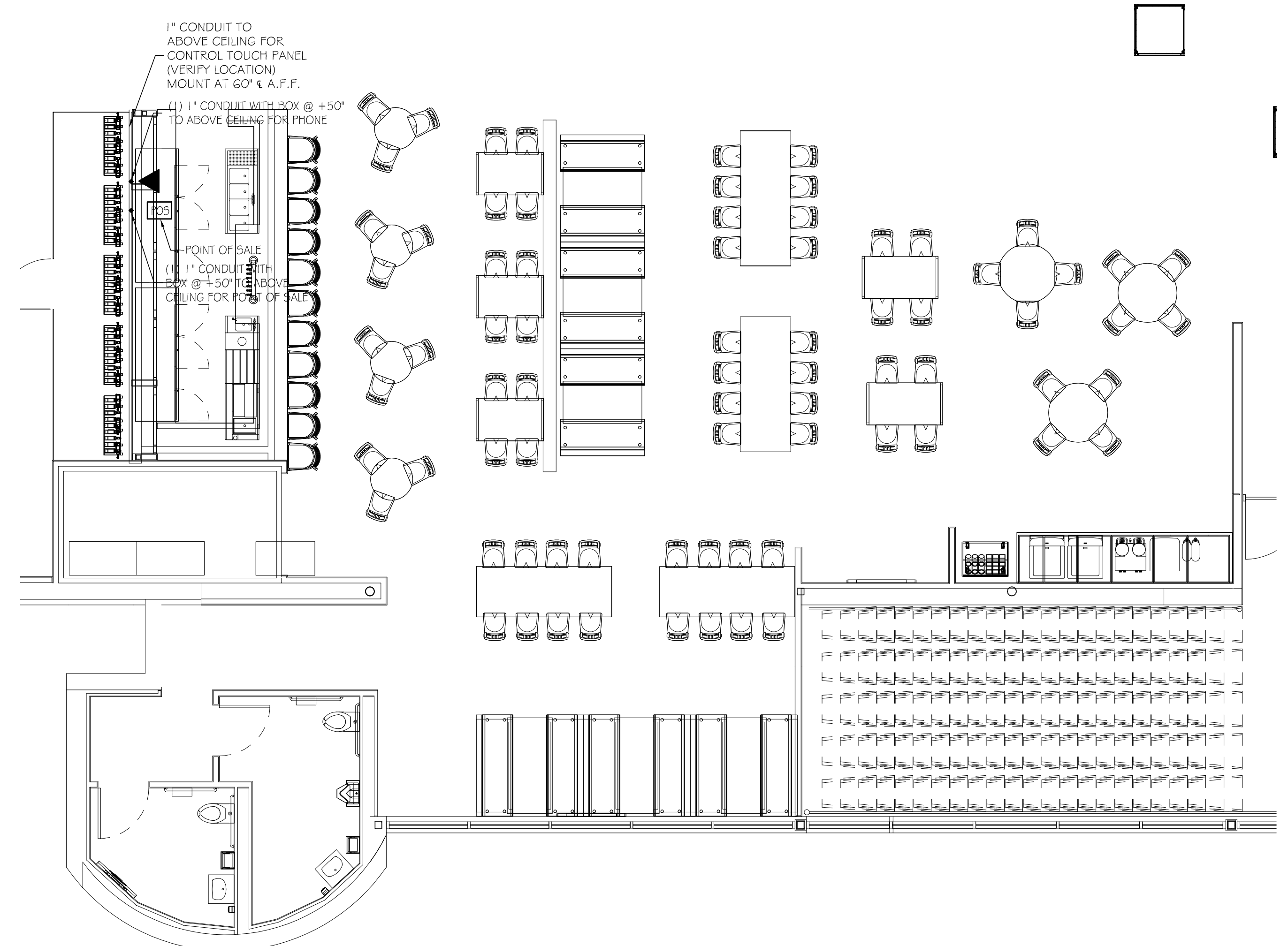
NOTE:  
ELECTRICIAN TO PROVIDE PLYWOOD BACKING

5 RX COMMUNICATIONS RACK ELEVATION  
SCALE: 3/4" = 1'-0"



NOTE:  
ELECTRICIAN TO PROVIDE CLEAN GENERATED POWER TO PLUG MOLDS ON RACK

3 BACK COMMUNICATIONS RACK ELEVATION  
SCALE: 3/4" = 1'-0"



1 ENLARGED COMMUNICATIONS PLAN - MARKET GRILLE  
SCALE: 3/16" = 1'-0"



LOCATION:  
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5820 WESTOWN PARKWAY  
WEST DES MOINES, IOWA 50266  
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FAX: (515) 267-2635

**Hy-Vee**  
EMPLOYEE OWNED



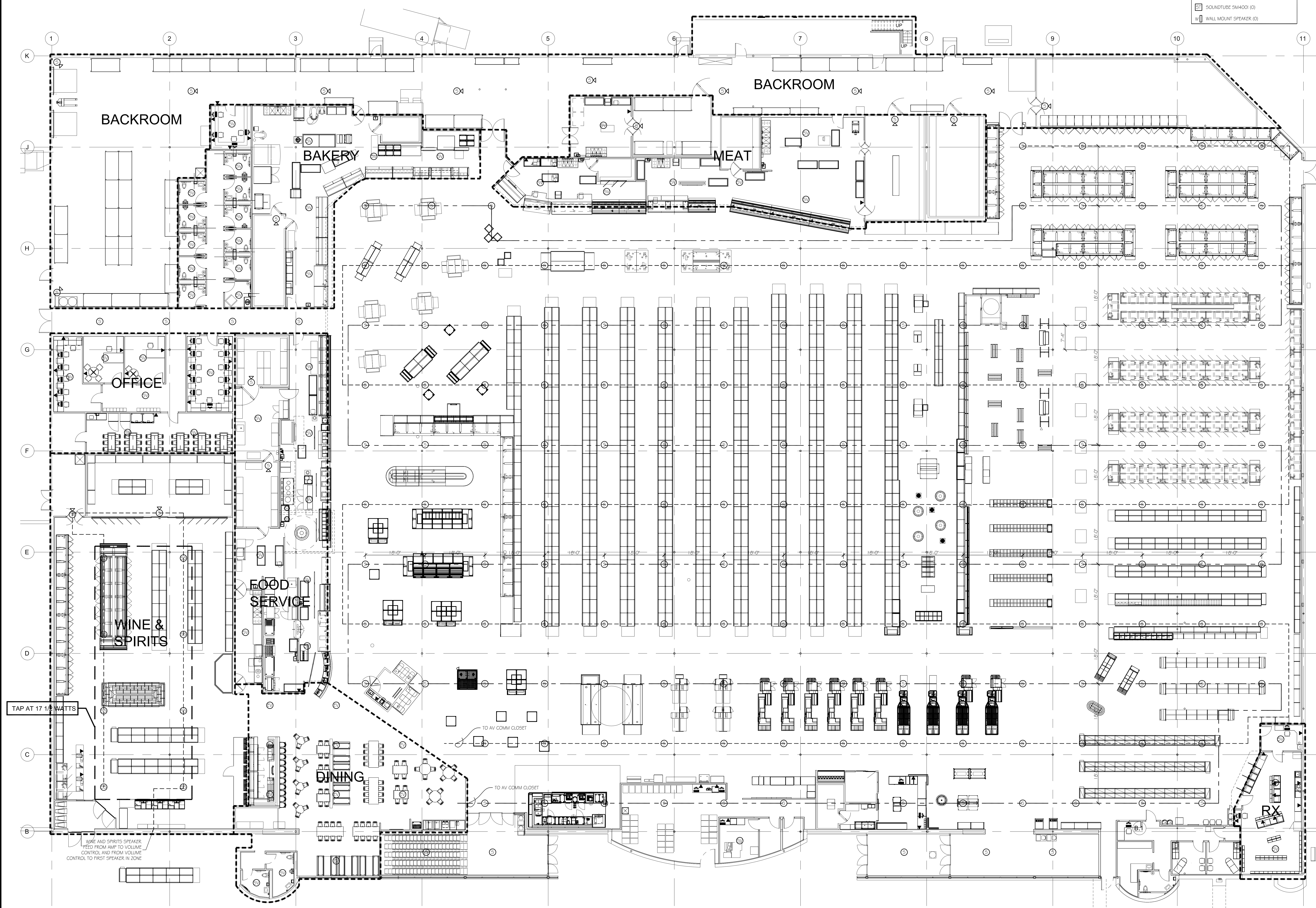
ENLARGED  
COMMUNICATIONS  
PLANS AND  
ELEVATIONS

DRAWN: BP  
SCALE: SEE SHEET  
SHEET:  
DATE: OCT 2020  
JOB NUMBER:

T1.2



- SPEAKER PLAN SYMBOLS:
- ① SPEAKER - (177)
  - ② SPEAKER - HORN TYPE - WITH VOLUME ADJUSTMENT (45)
  - ③ SPEAKER WITH VOLUME CONTROL - (45)
  - ④ SOUND TUBE SPEAKER (6)
  - ⑤ ELECTRO-VOICE SPEAKER (7)
  - ⑥ SOUND TUBE SPEAKER RS-31 (0)
  - ⑦ SOUND TUBE SM4001 (0)
  - ⑧ WALL MOUNT SPEAKER (0)



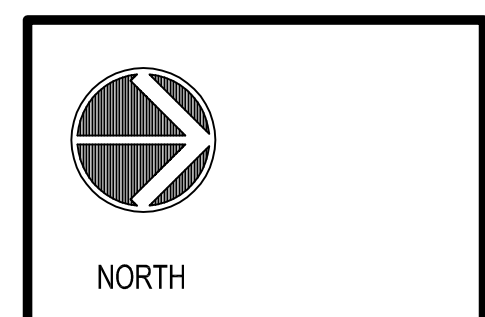
1 SPEAKER PLAN  
SCALE: 3/32" = 1'-0"



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**Hy-Vee**  
EMPLOYEE OWNED



SPEAKER PLAN

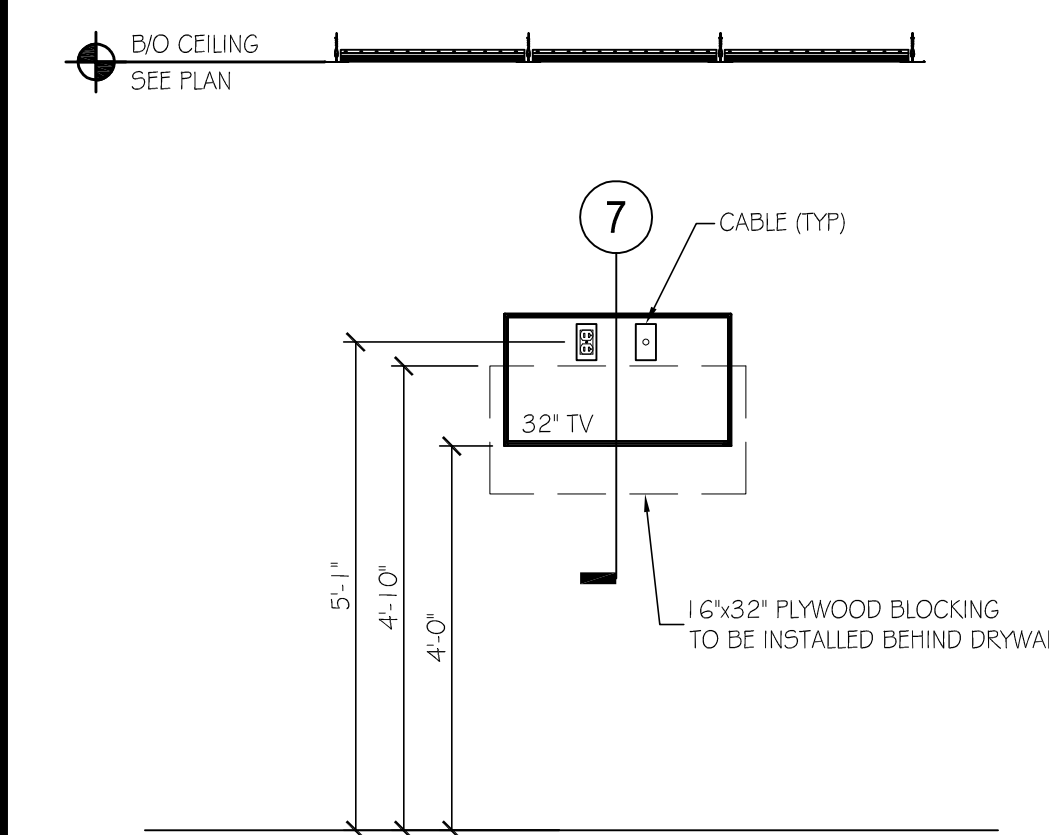
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JOB NUMBER:  
SHEET:

T2.0

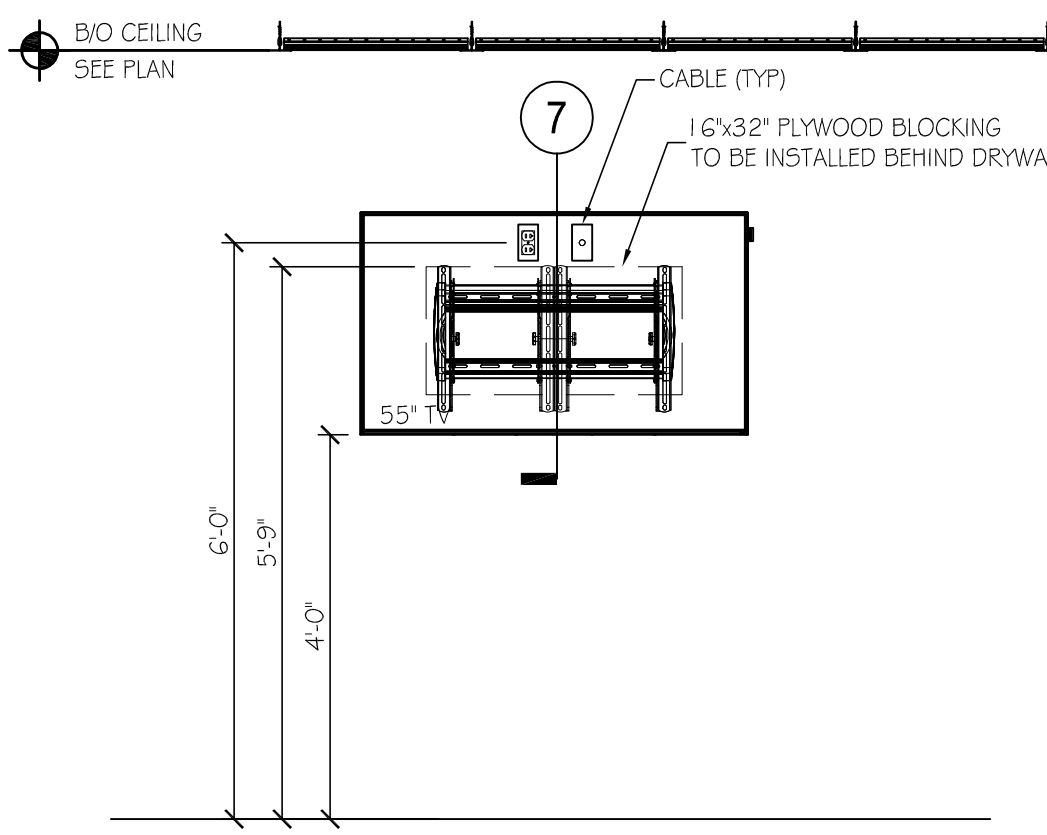




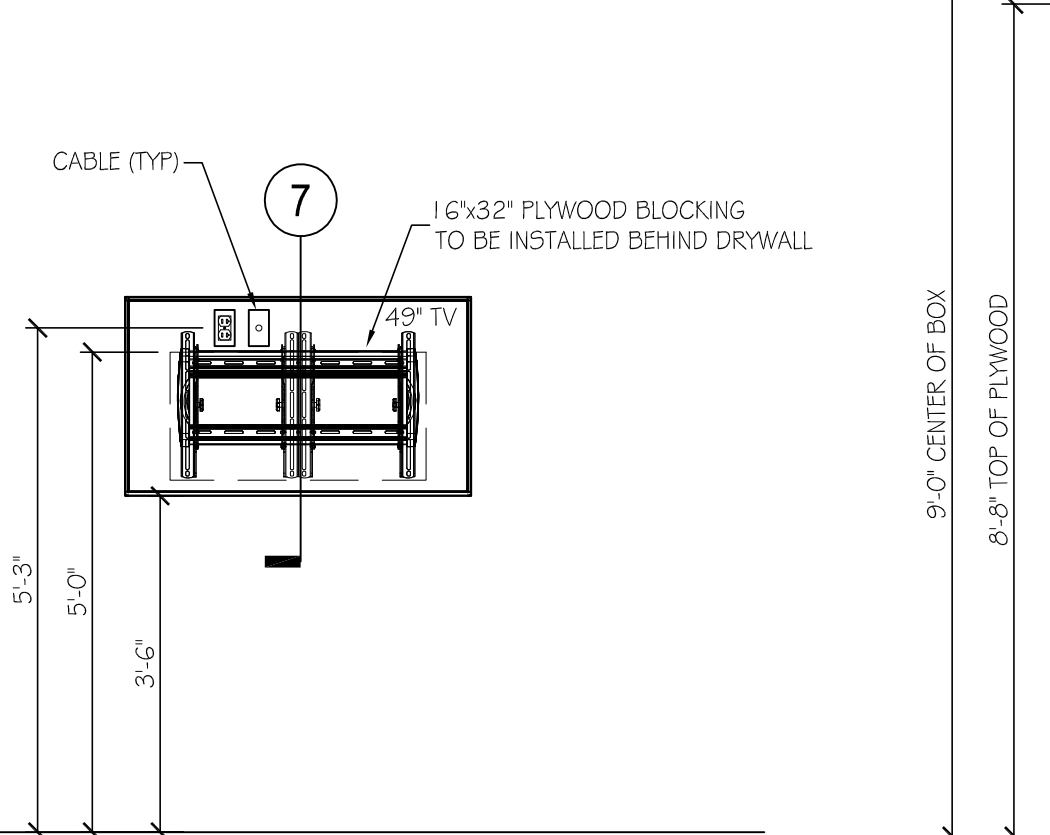




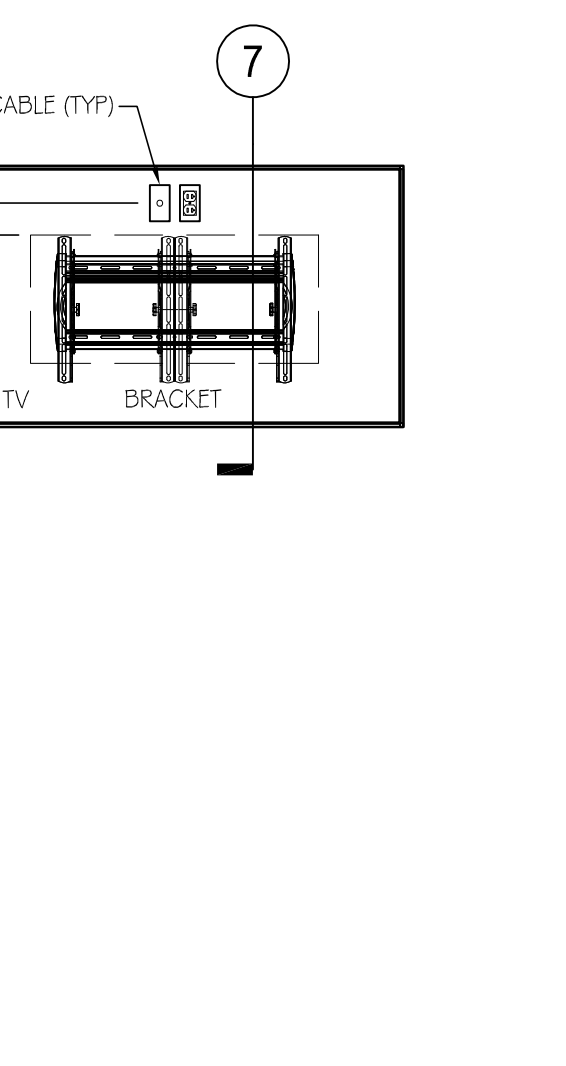
1 MOTHERS ROOM TELEVISION ELEVATION  
SCALE: 1/2" = 1'-0"



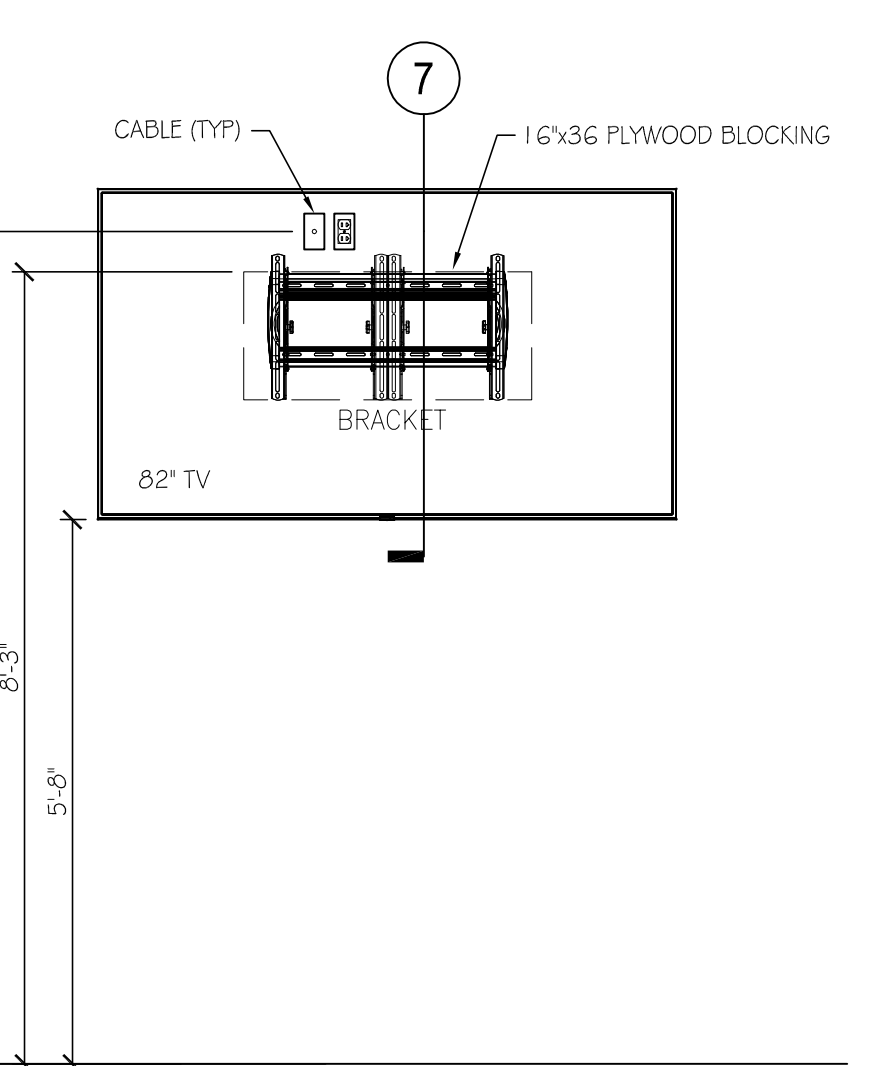
2 BREAKROOM TELEVISION ELEVATION  
SCALE: 1/2" = 1'-0"



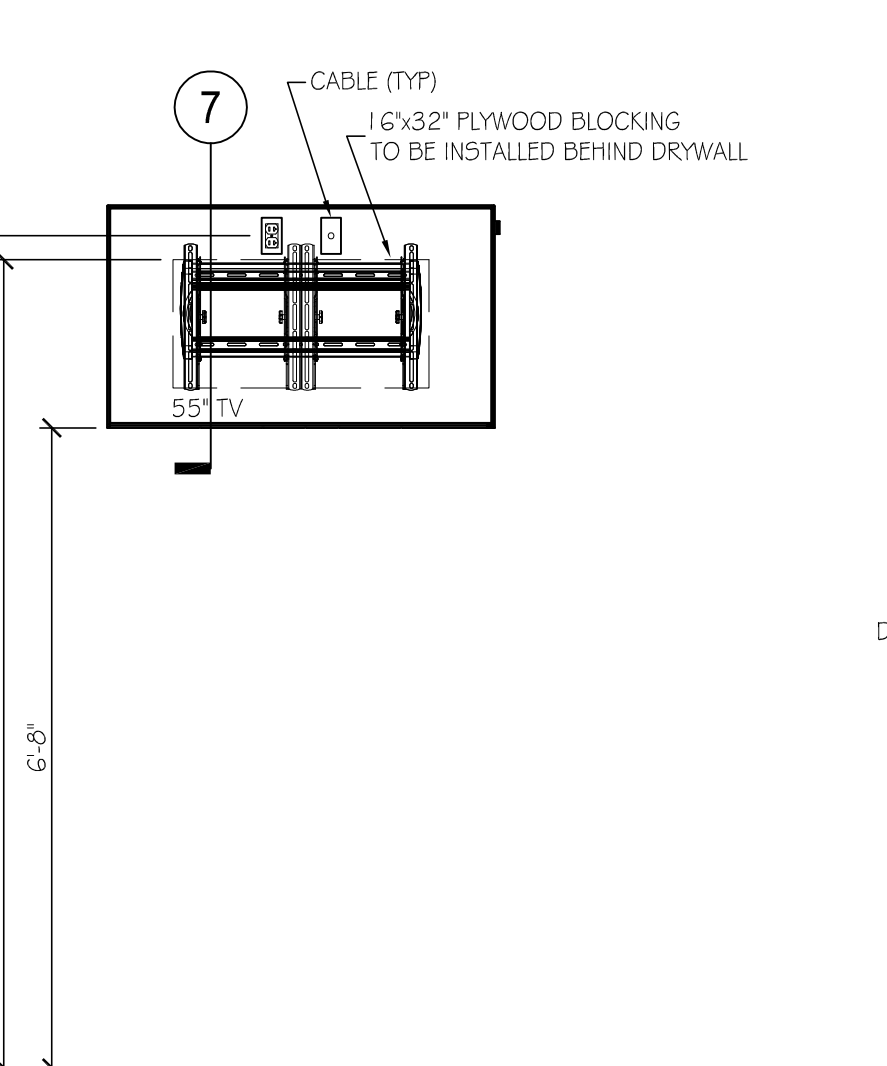
3 DIETITIAN MONITOR ELEVATION  
SCALE: 1/2" = 1'-0"



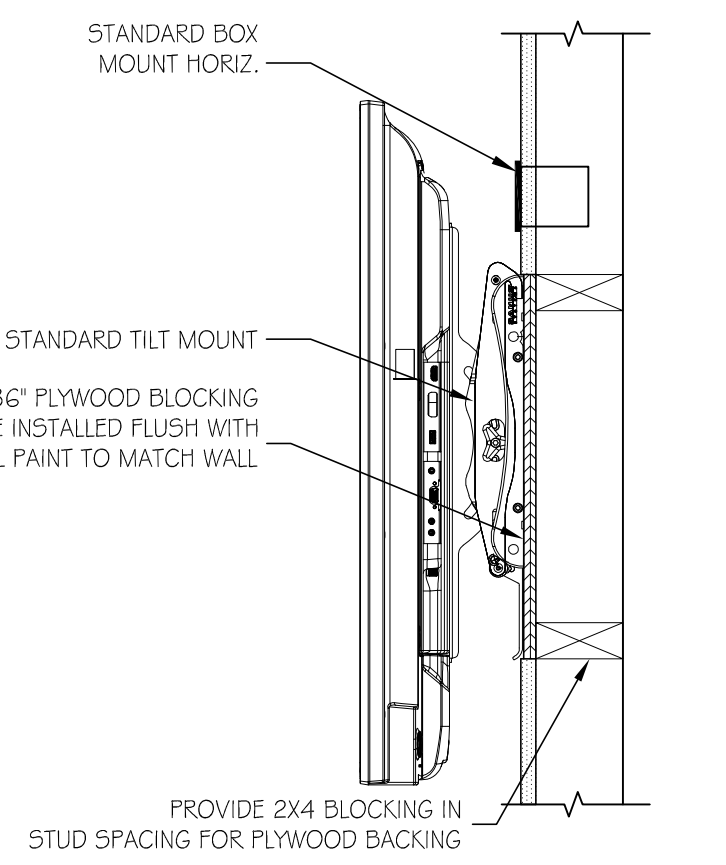
4 SEAFOOD TELEVISION ELEVATION  
SCALE: 1/2" = 1'-0"



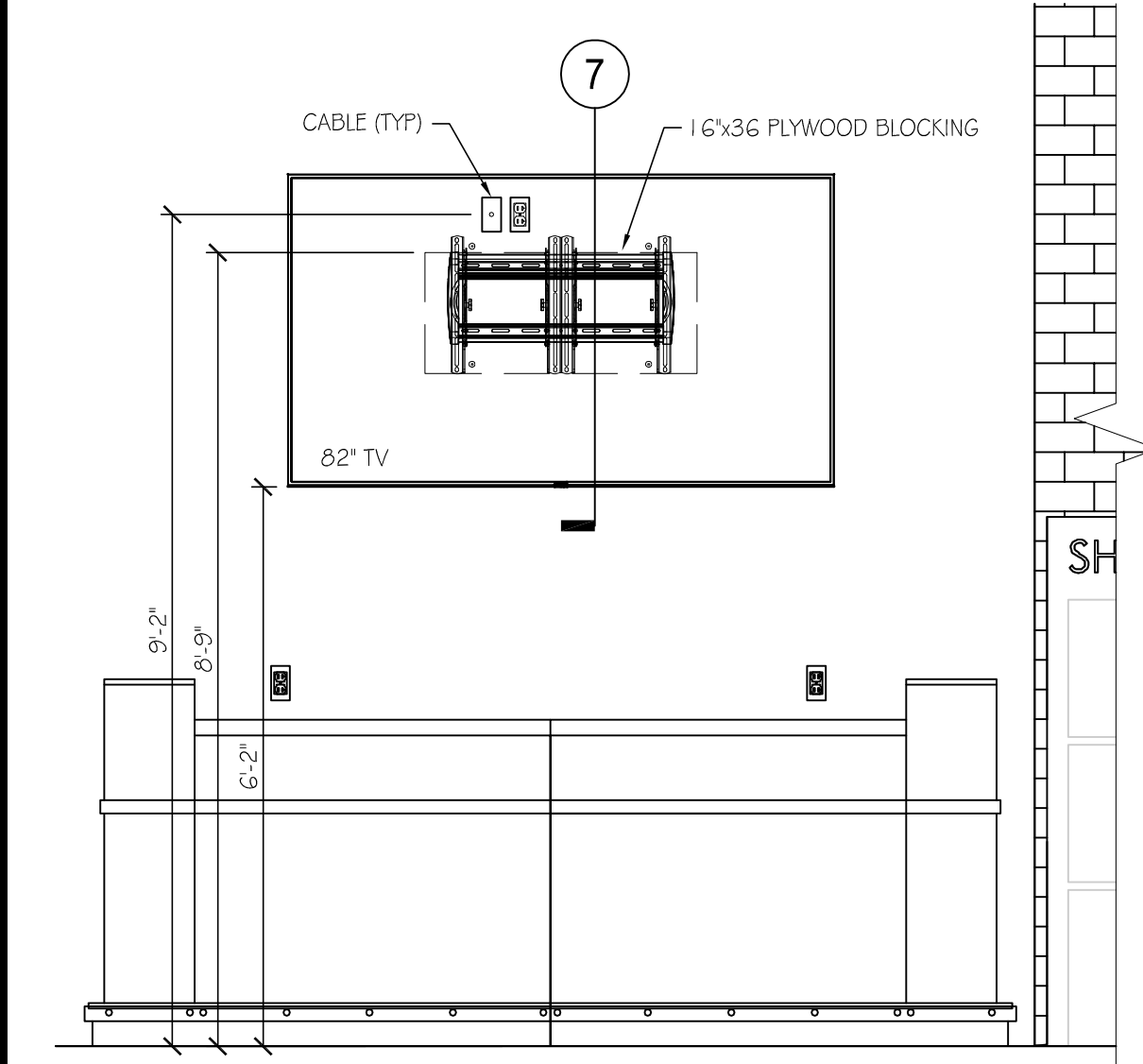
5 MEAT TELEVISION ELEVATION  
SCALE: 1/2" = 1'-0"



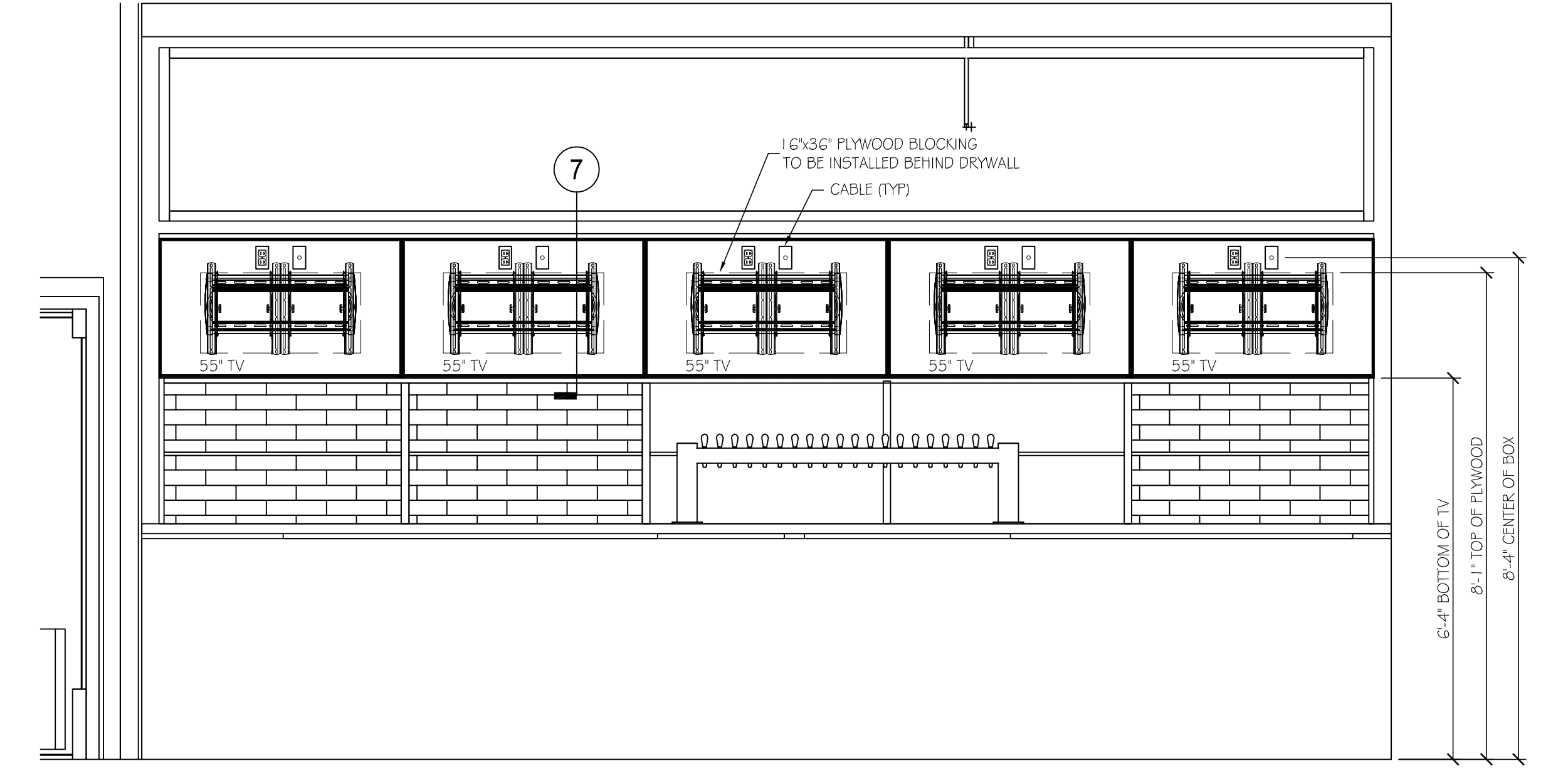
6 TYP. 55" DINING TELEVISION ELEV  
SCALE: 1/2" = 1'-0"



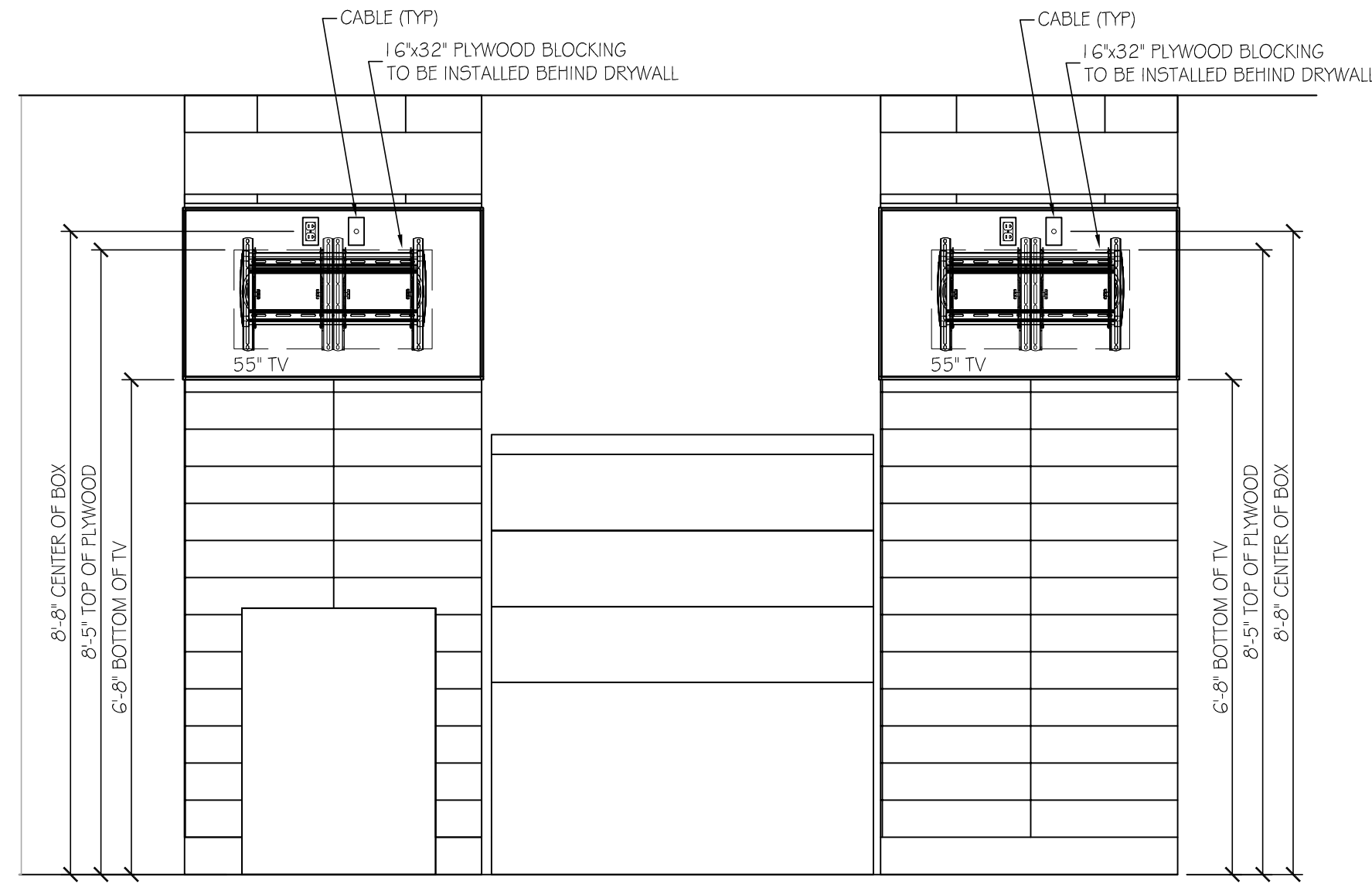
7 TYPICAL TELEVISION SECTION  
SCALE: 1 1/2" = 1'-0"



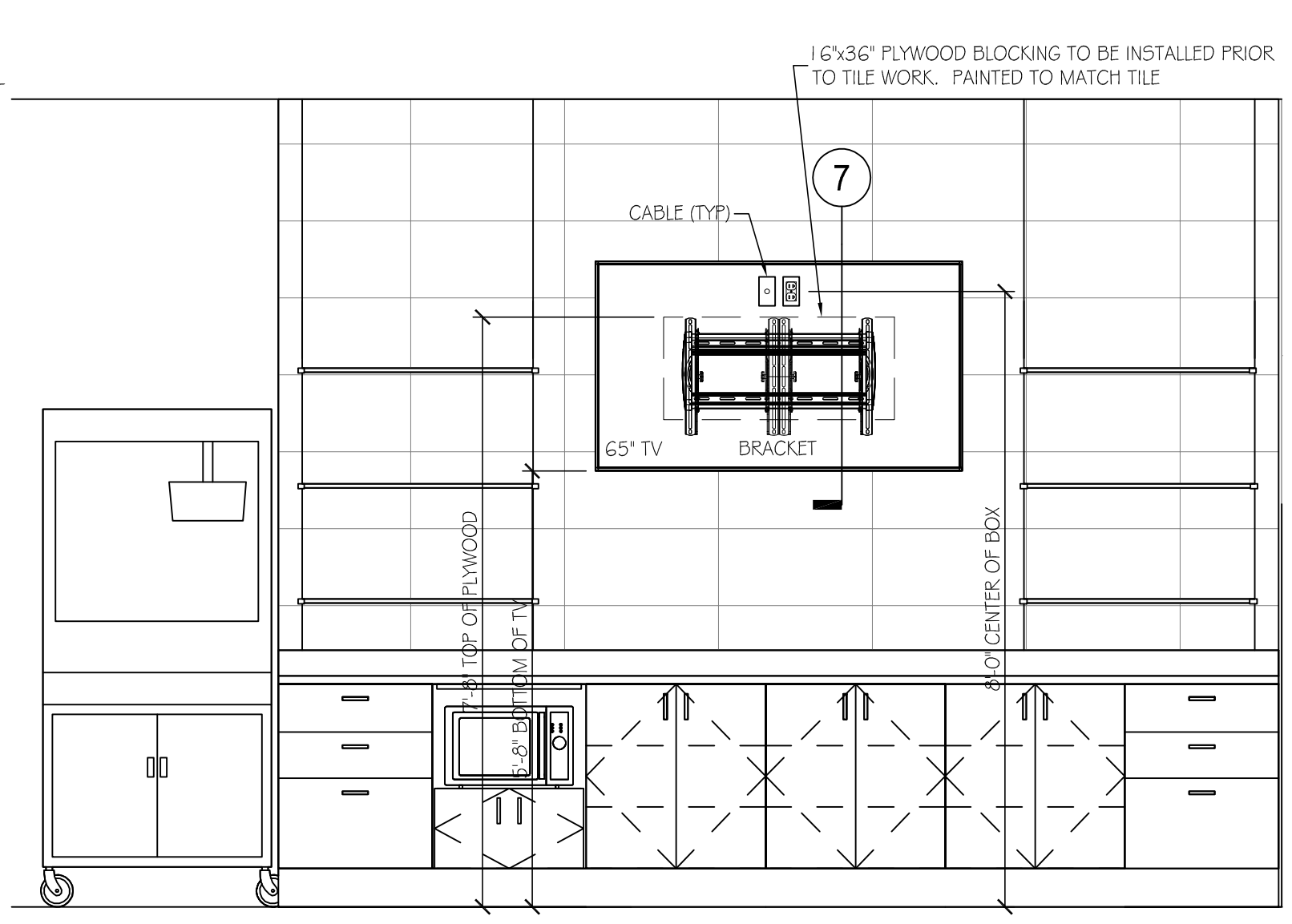
8 APPAREL TELEVISION ELEVATION  
SCALE: 1/2" = 1'-0"



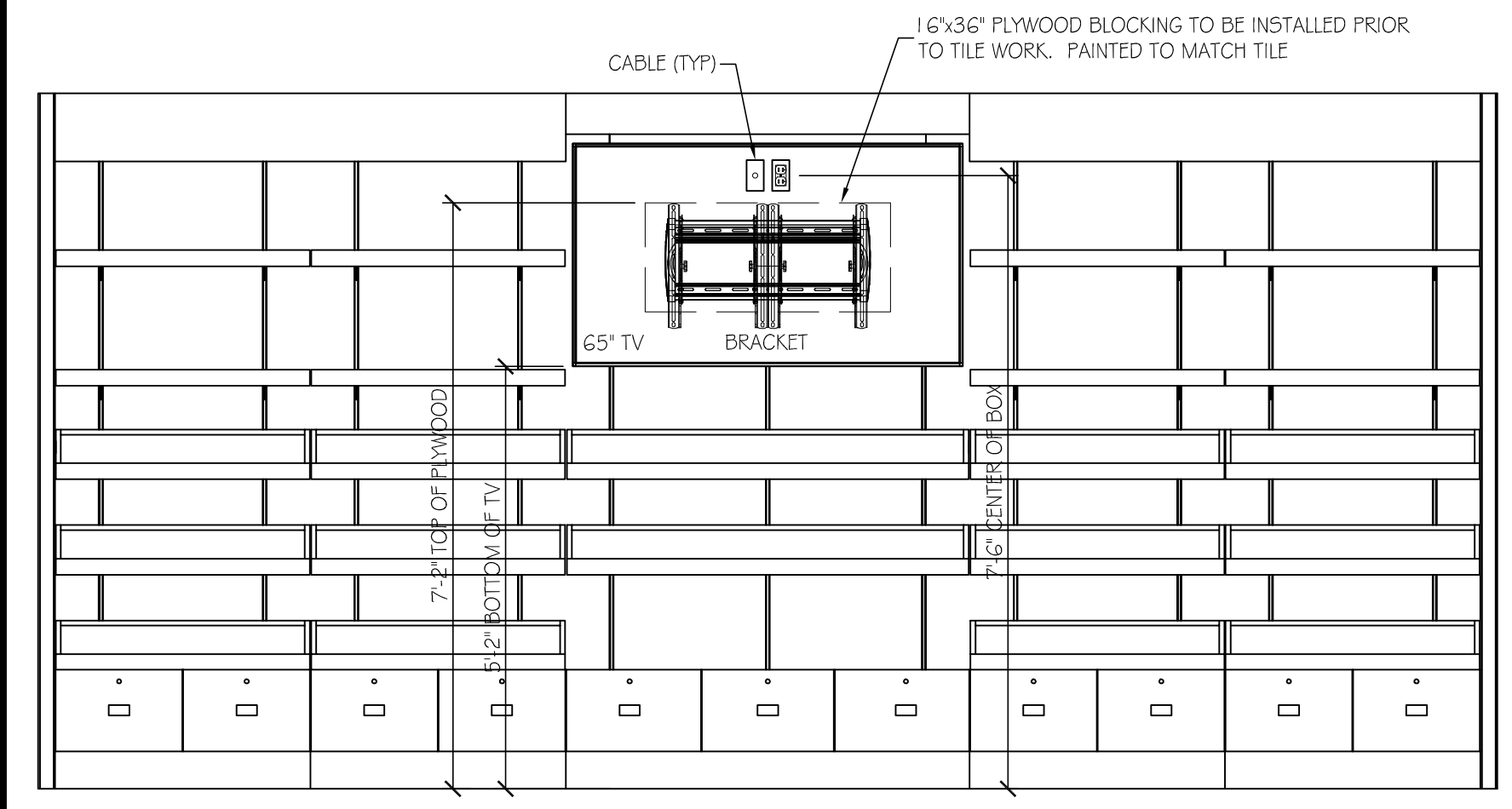
9 BAR WALL ELEVATION  
SCALE: 1/2" = 1'-0"



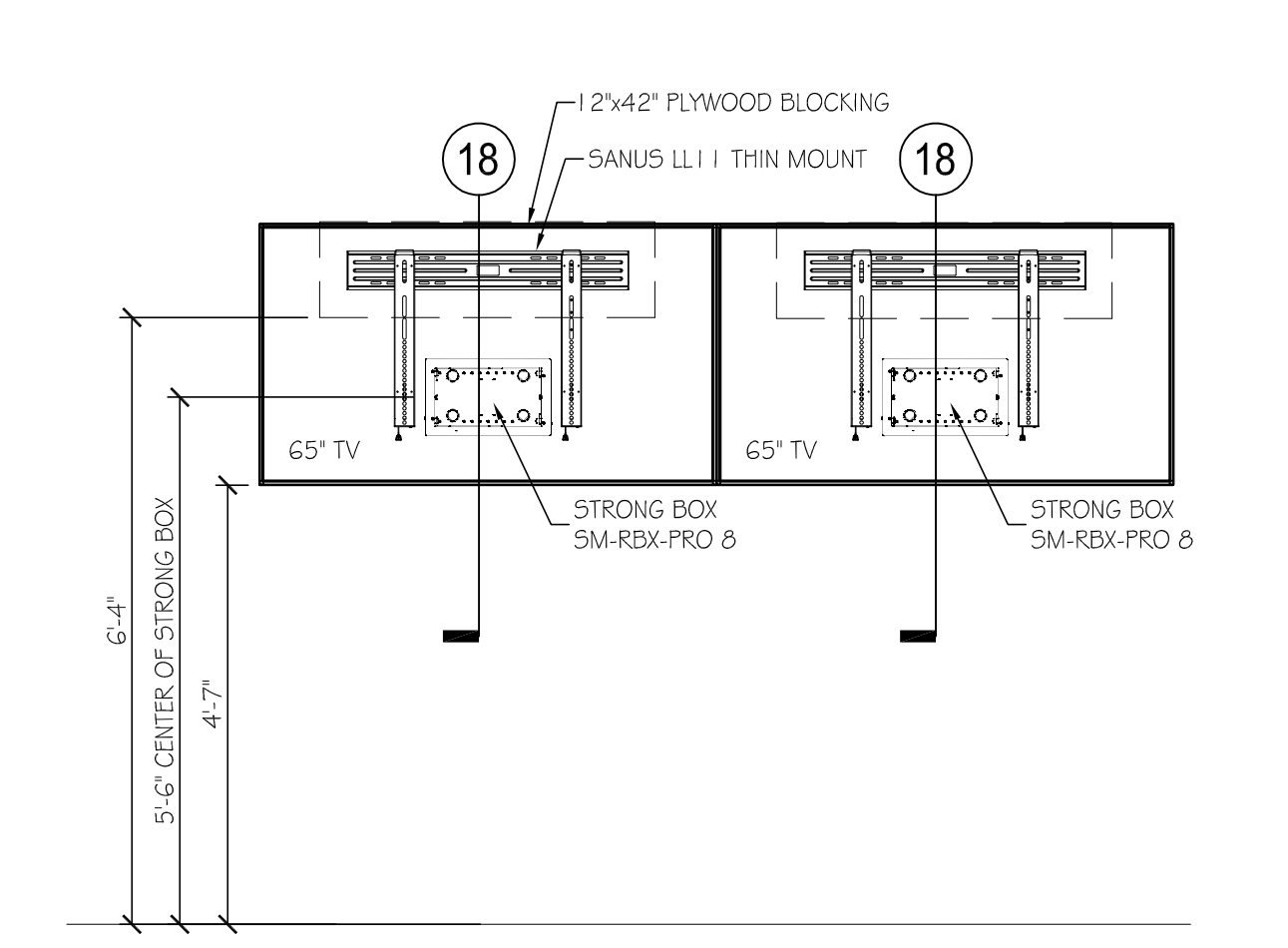
10 BAKERY BREAD WALL ELEVATION  
SCALE: 1/2" = 1'-0"



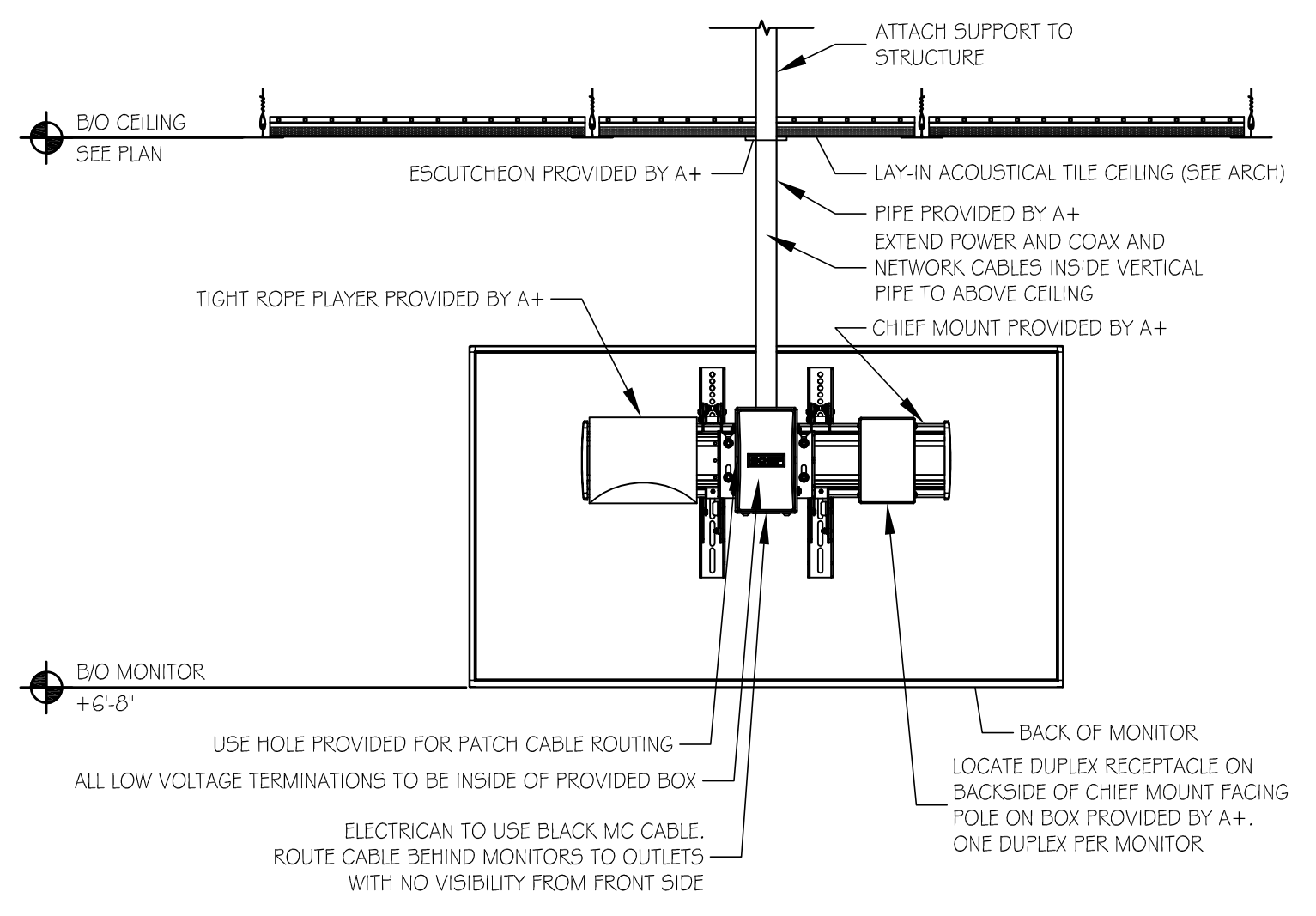
11 BAKERY CAKE WALL ELEVATION  
SCALE: 1/2" = 1'-0"



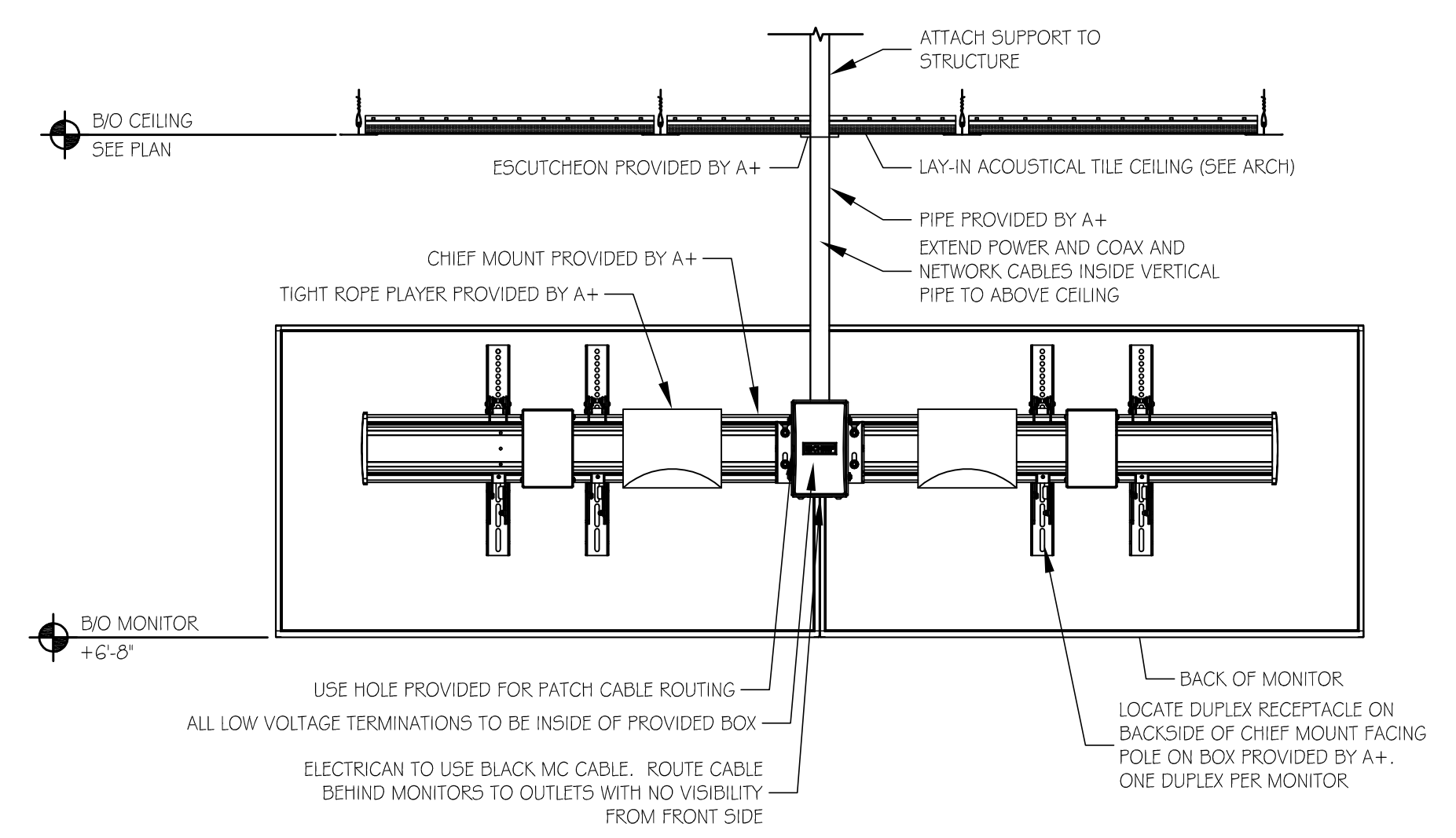
12 BASIN TELEVISION ELEVATION  
SCALE: 1/2" = 1'-0"



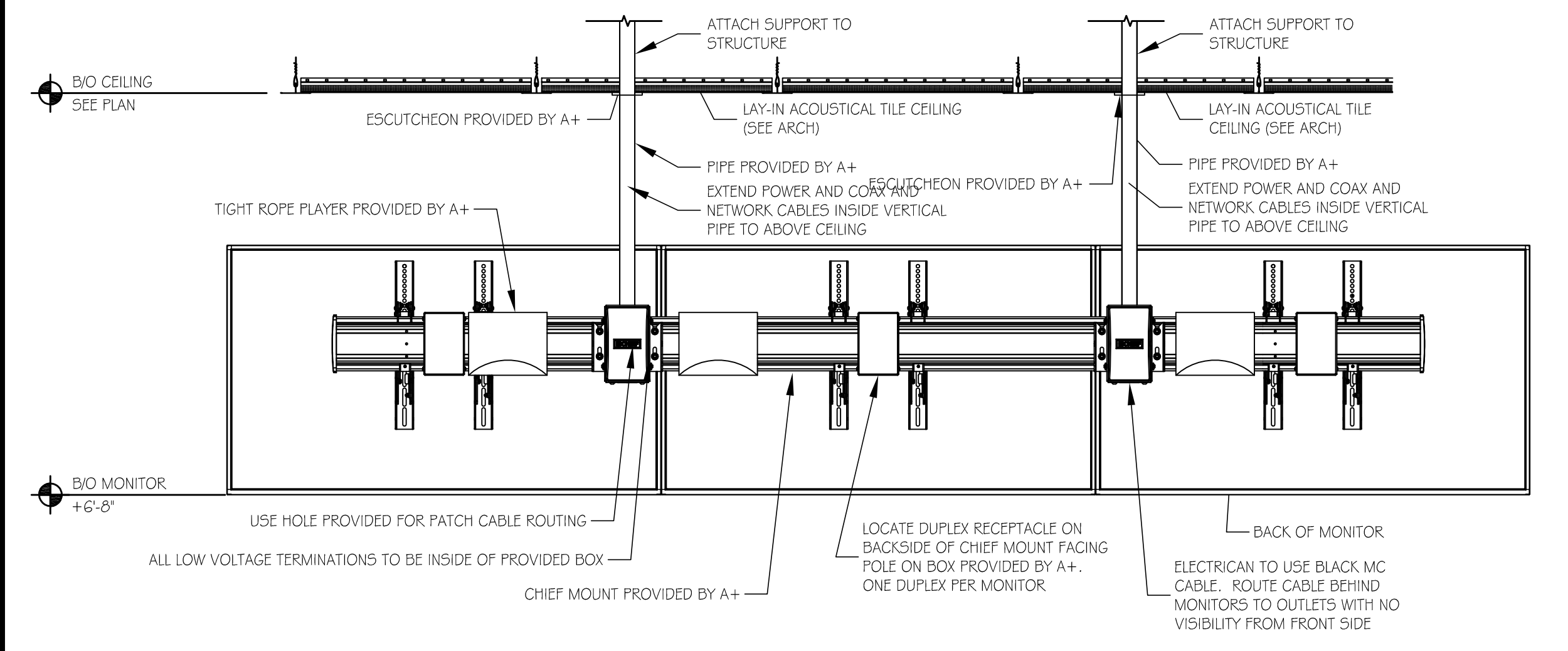
13 CUSTOMER SERVICE TELEVISION ELEVATION  
SCALE: 1/2" = 1'-0"



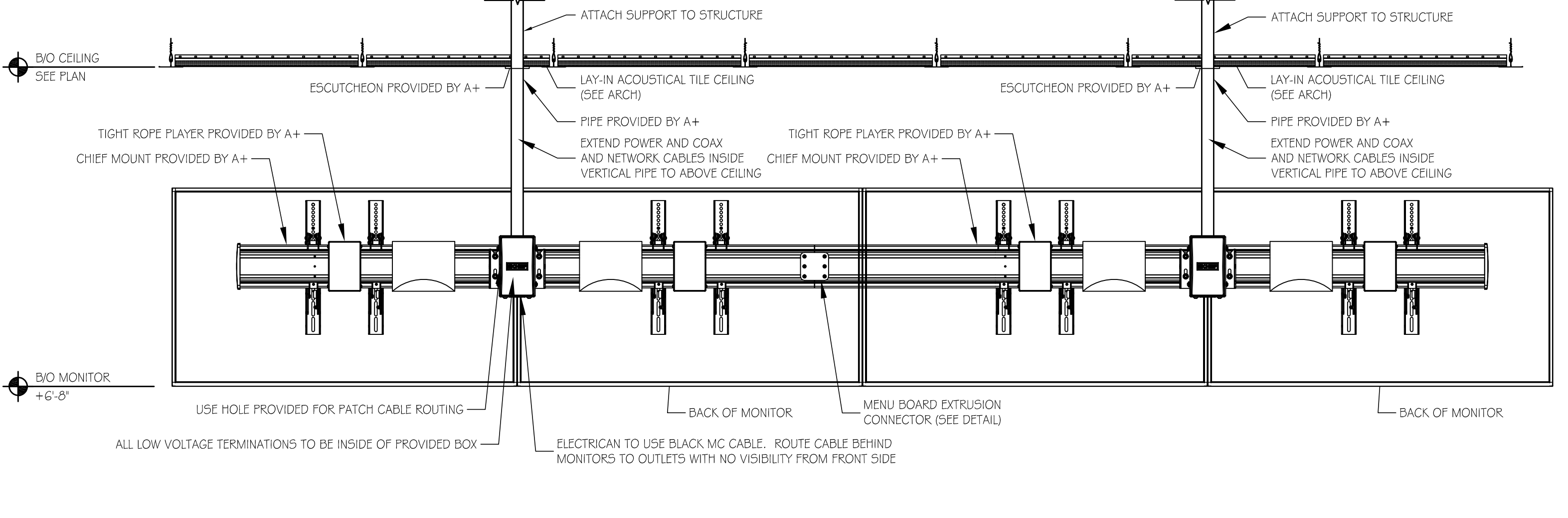
14 49" POLE MOUNTED MENU MONITOR DETAIL (1 MONITOR)  
SCALE: 1" = 1'-0"



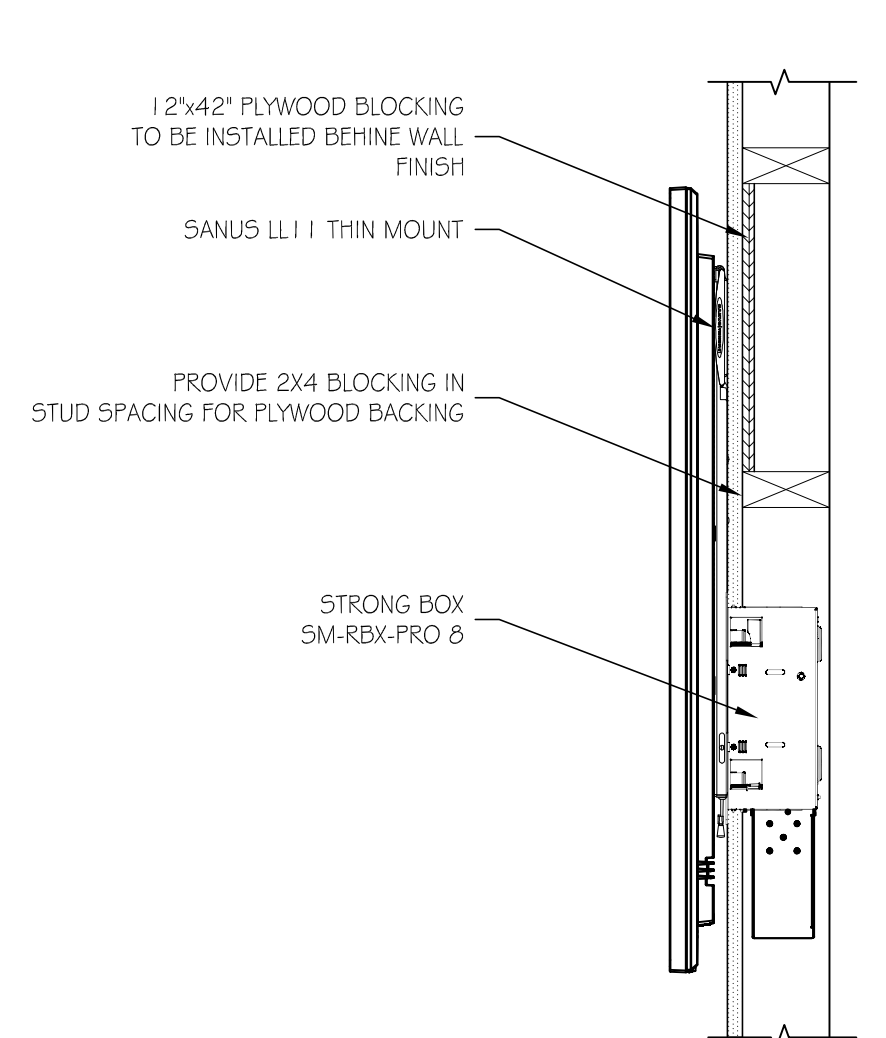
15 49" POLE MOUNTED MENU MONITOR DETAIL (2 MONITORS)  
SCALE: 1" = 1'-0"



16 49" POLE MOUNTED MENU MONITOR DETAIL (3 MONITORS)  
SCALE: 1" = 1'-0"



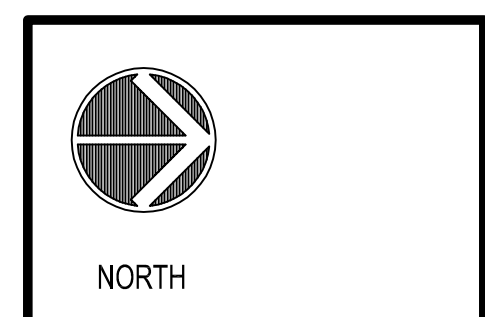
17 49" POLE MOUNTED MENU MONITOR DETAIL (4 MONITORS)  
SCALE: 1" = 1'-0"



18 CUSTOMER SERVICE SECTION  
SCALE: 1 1/2" = 1'-0"



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5820 WESTOWN PARKWAY  
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FAX: (515) 267-2835  
EMPLOYEE OWNED

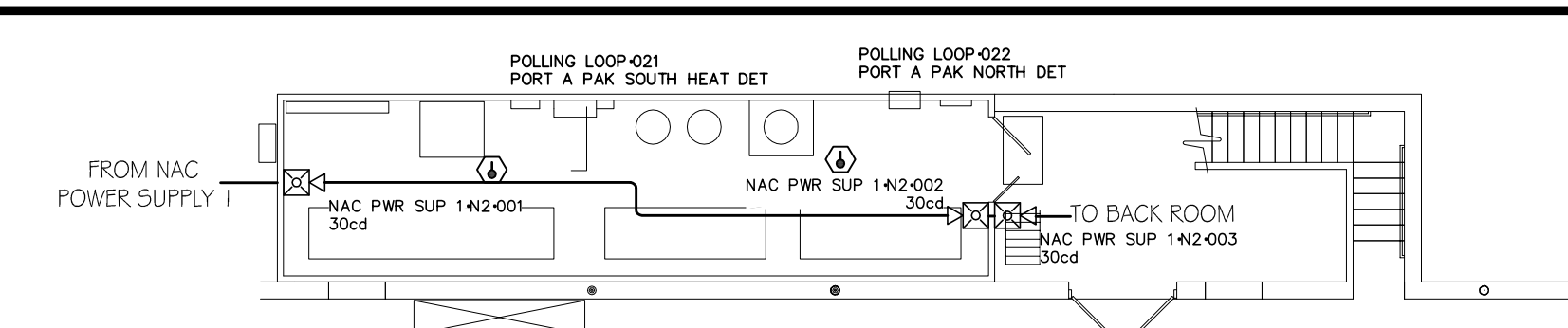


AUDIO/VIDEO  
ELEVATIONS  
AND DETAILS

DRAWN: BP  
SCALE: SEE SHEET  
DATE: OCT. 2020  
JOB NUMBER:

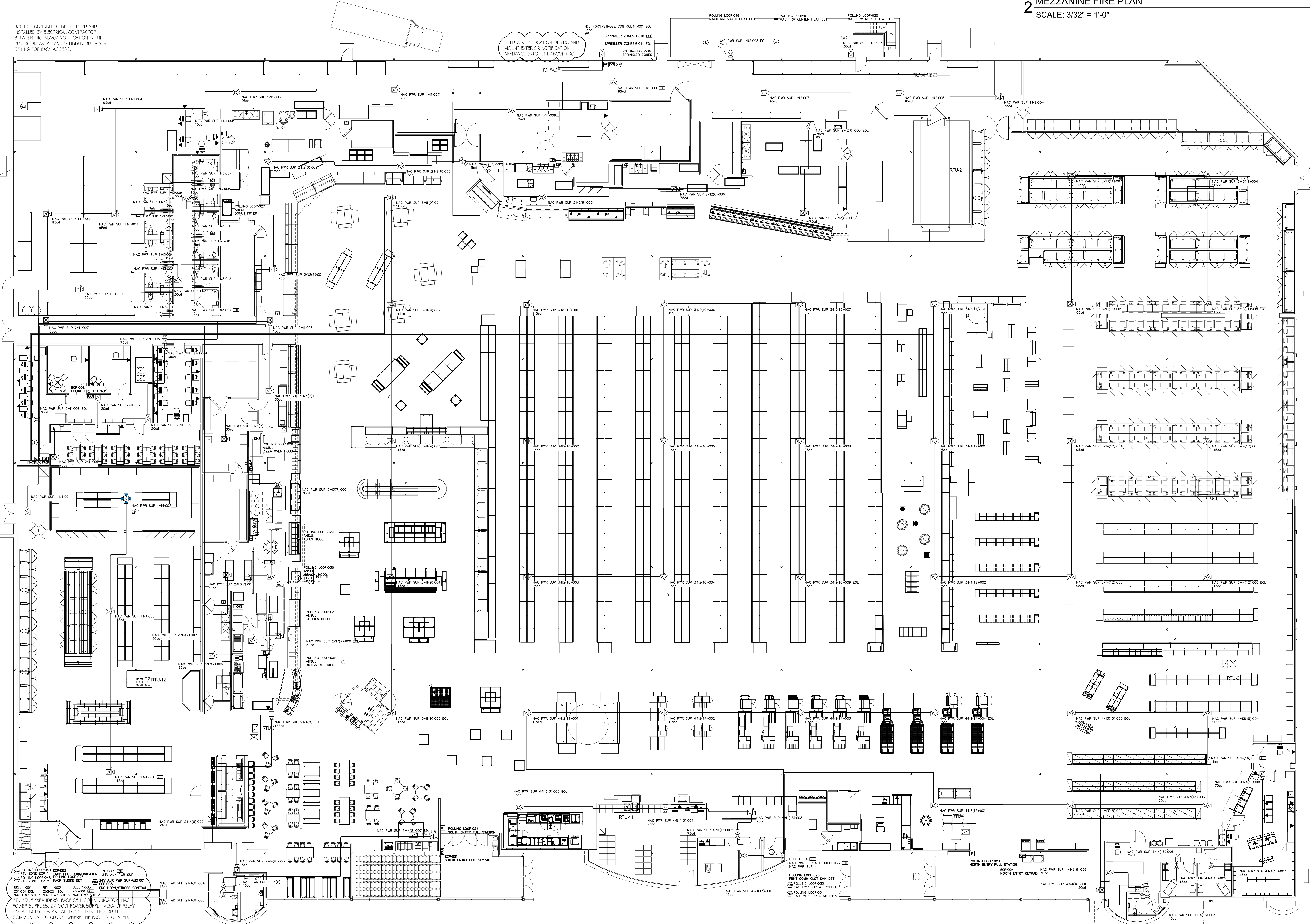
T3.1





2 MEZZANINE FIRE PLAN  
SCALE: 3/32" = 1'-0"

3/4 INCH CONDUIT TO BE SUPPLIED AND  
INSTALLED BY ELECTRICAL CONTRACTOR  
BETWEEN FIRE ALARM NOTIFICATION IN THE  
RESTROOM AREAS AND STUBBED OUT ABOVE  
CEILING FOR EASY ACCESS.

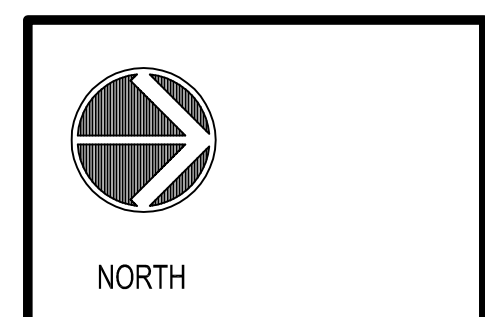


3/4 INCH CONDUIT TO BE SUPPLIED AND  
INSTALLED BY ELECTRICAL CONTRACTOR  
BETWEEN FIRE ALARM NOTIFICATION IN THE  
RESTROOM AREAS AND STUBBED OUT ABOVE  
CEILING FOR EASY ACCESS.

1 FIRE PLAN  
SCALE: 3/32" = 1'-0"



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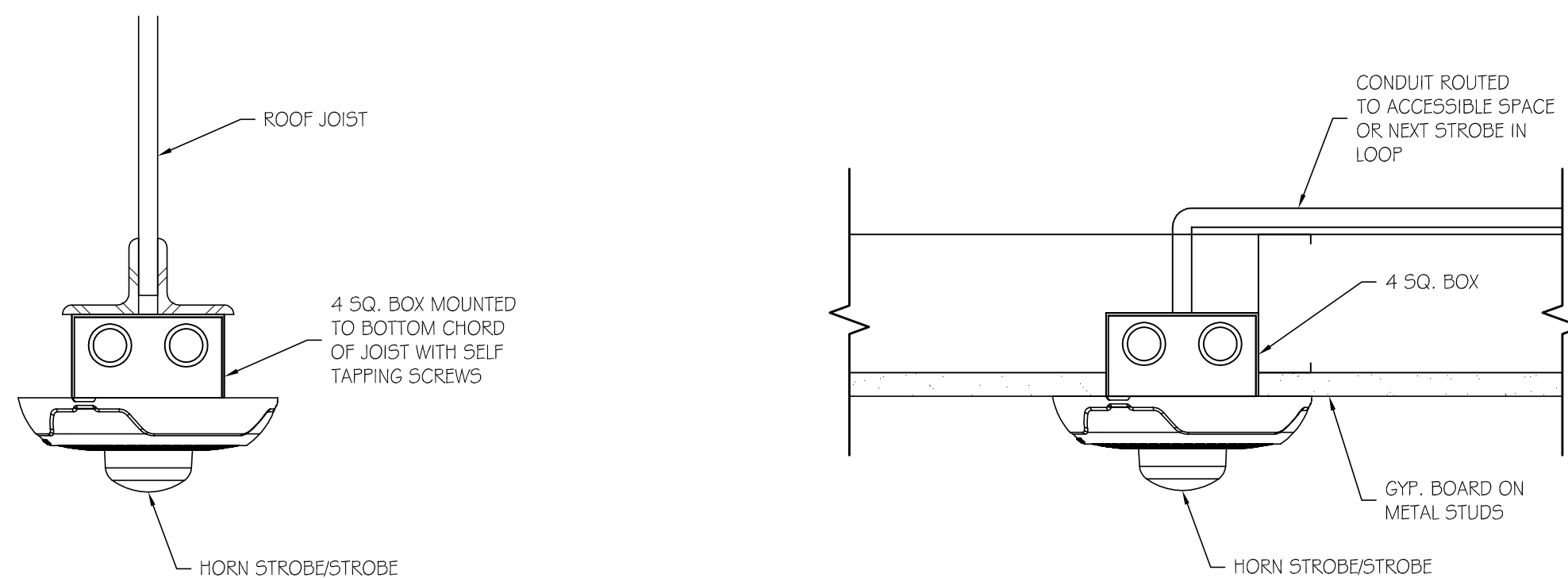


FIRE PLAN

DRAWN: BP  
DATE: OCT 2020  
SCALE: 3/32" = 1'-0"  
JOB NUMBER:  
SHEET:

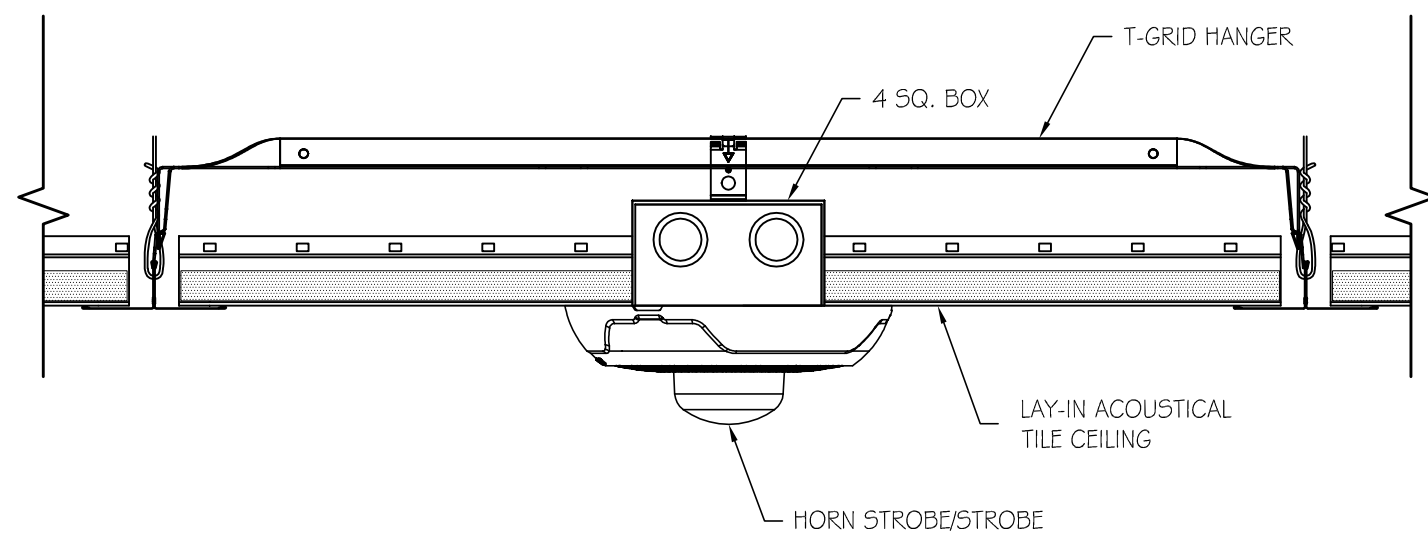
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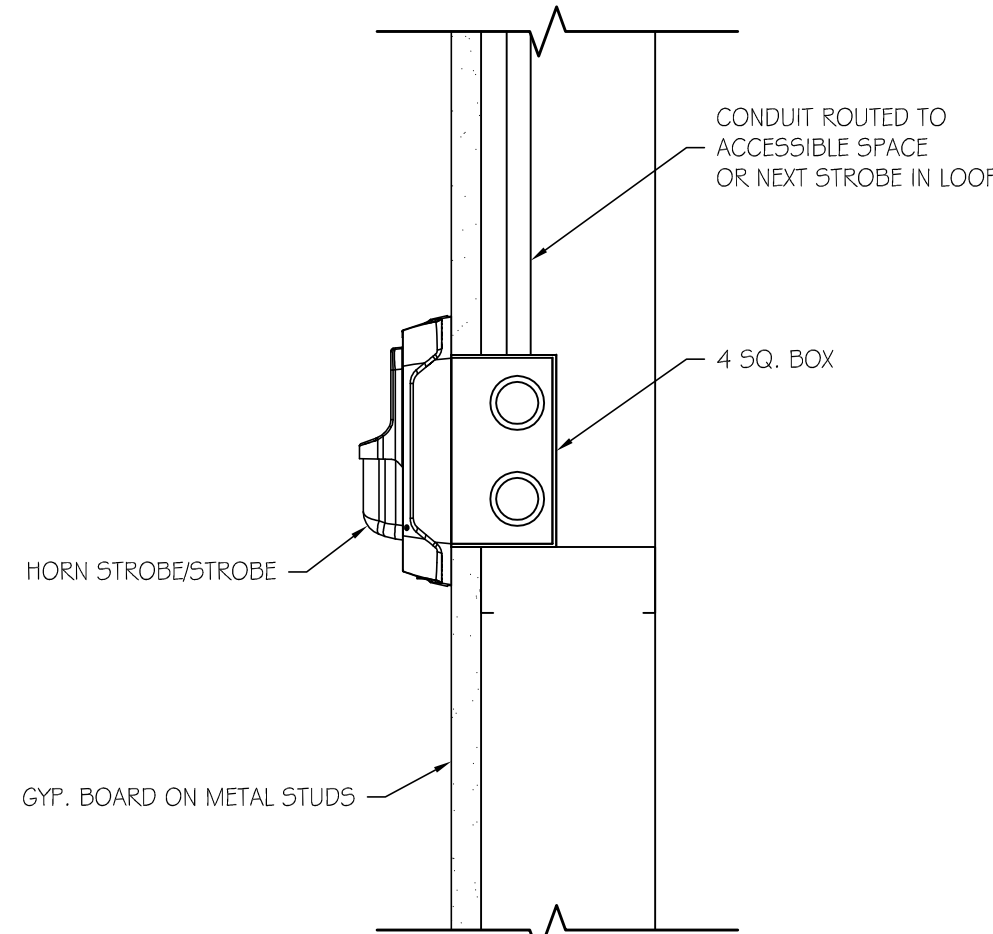


1 STROBE INSTALLATION - TO STRUCTURE  
SCALE: 3" = 1'-0"

2 STROBE INSTALLATION - GYP. BD MOUNT  
SCALE: 3" = 1'-0"



3 STROBE INSTALLATION - ACOUSTICAL CEILING MOUNT  
SCALE: 3" = 1'-0"



4 STROBE INSTALLATION - GYP. BD WALL MOUNT  
SCALE: 3" = 1'-0"

### SYSTEM OUTLINE

CONTRACTOR SHALL FURNISH AND INSTALL A COMPLETE FIRE ALARM SYSTEM IN ACCORDANCE WITH NFPA 72, THE INTERNATIONAL FIRE CODE CODE, AND LOCAL AND STATE REQUIREMENTS. THE SYSTEM SHOWN INCLUDES A FIRE ALARM PANEL, REMOTE ANNUNCIATOR AND OTHER PROVISIONS FOR CONNECTION TO A NOTIFICATION SERVICE FROM THE ALARM SYSTEM. THE SYSTEM SHALL HAVE THE BUILDING DEVICES UNICELY ADDRESSABLE. THE REFERRING OF ZONES OR GROUPS ARE PRIMARILY FOR THE OWNER AND DESIGNERS BENEFIT TO ASSURE COMMUNICATION WITH THE CONTRACTOR AND AUTHORITIES HAVING JURISDICTION (AHJ) SHOULD DESIGN OR OPERATIONAL QUESTIONS ARISE. THE OWNER REQUIRES THE EQUIPMENT BE FROM A SINGLE MANUFACTURER THAT HAS LOCAL (WITHIN 50 MILE RADIUS) TECHNICAL SUPPORT AND STOCKED REPLACEMENT PARTS. MANUFACTURERS ALLOWED INCLUDE: FIRELITE 9200 ULDS, OR AS APPROVED BY OWNER. A WARRANTY OF ONE (1) YEAR PARTS AND LABOR STARTING FROM THE DATE OF THE STORE OPENING OR AS AGREED UPON WITH THE OWNER IS THE CONTRACTORS RESPONSIBILITY. CONTRACTOR SHALL ALSO PROVIDE TWO TRAINING PERIODS IN HOW TO RUN THE CONTROL PANEL: ONE FOR A DAY SHIFT AND ONE FOR A NIGHT SHIFT.

### DESIGN CONSTRAINTS

THE SYSTEM SHALL HAVE THE FOLLOWING DESIGN CONSTRAINTS, FUNCTIONS, ACCESSORIES AND/OR REQUIREMENTS AS FOLLOWS:

- THE DESIGNERS SCHEMATIC REFERS TO ZONES AND/OR GROUPS TO USE IN COMMUNICATION AND FOR "DRILLED DOWN" TO ADDRESSABLE UNITS IN THE DESIGN AS FOLLOWS:  
LIFE SAFETY PULL STATIONS AND SMOKE DETECTORS  
FIRE SPRINKLER TAMPERS AND FLOW SWITCHES  
DUCT SMOKE DETECTORS FOR THE HVAC SYSTEM AND UNITS  
FIRE HOOD PROTECTION SYSTEMS (BAKERY, CHINESE, KITCHEN)
- A FIRE ALARM "CONTROL CENTER" SHALL BE LOCATED IN THE CORRIDOR OF THE OFFICE AREA. THE REMOTE ANNUNCIATOR SHOULD BE LOCATED IN THE FRONT VESTIBULE IN AN AREA COORDINATED WITH THE AUTHORITY HAVING JURISDICTION FOR ITS FINAL PLACEMENT. A REMOTE ANNUNCIATOR SHALL BE LOCATED IN THE CORRIDOR OF THE OFFICE AREA.
- THE "CONTROL CENTER" EITHER NEEDS TO PROVIDE FOR ELECTRIC TERMINATION AND RESTART FOR RESET OF DUCT SMOKE DETECTORS OR DESIGN MUST ACCOMMODATE DUCT SMOKE RESETS IMMEDIATELY ADJACENT TO THE "CONTROL CENTER" PANEL.
- THIS FIRE ALARM COMMUNICATIONS PLAN INDICATES DESIGN INTENT BUT NOT NECESSARILY EXACT LAYOUT. THE FINAL DESIGN IS THE CONTRACTORS RESPONSIBILITY TO BE COORDINATED AND APPROVED BY THE AUTHORITY HAVING JURISDICTION.
- A DESIGN SYSTEM MUST ACCOMMODATE A MINIMUM OF 15% EXPANSION POTENTIAL FOR THE SYSTEM INITIALLY INSTALLED. EXAMPLE: IF THERE ARE 85 UNIQUE ADDRESSABLE STATIONS, THE BASE SYSTEM SHOULD ACCOMMODATE 100 ADDRESSES FOR ADDITIONAL WIRING TO EXISTING CONNECTOR POINTS AND FAIRLY SIMPLE REPROGRAMMING OF THOSE ADDITIONAL STATIONS.
- COORDINATE ALL SALES FLOOR FIRE ALARM HORNS/STROBES WITH DECOR PLAN AS TO NOT INTERFERE WITH ANY SIGNAGE.

### SUPERVISORY DESIGN CONSTRAINTS

FIRE ALARM CONTRACTOR WILL PROVIDE ALL PROGRAMMING, TESTING, AND COMMISSIONING TO SATISFY THE LOCAL AUTHORITY HAVING JURISDICTION OR HY-VEE REQUIREMENTS AS SET FORTH HEREIN, WHICHEVER IS MORE RESTRICTIVE. FOR ALL HVAC UNITS AND THEIR ASSOCIATED SMOKE DETECTORS, THE FIRE ALARM CONTRACTOR SHALL TEST FOR CONTROL PANEL IDENTIFICATION, ALARM, AND TROUBLE SIGNALS, AND UNIT SHUT DOWN. IF THE HVAC UNIT DOES NOT SHUT DOWN, FIRE ALARM CONTRACTOR SHALL NOTIFY GENERAL CONTRACTOR AND HVAC/SHEET METAL CONTRACTOR TO REMEDY AND RESOLVE THE UNIT SHUT DOWN REQUIREMENT. THE FIRE ALARM SYSTEM NEEDS TO RESET THE HVAC UNITS AT THE RESET LOCATION NOTED ON THE DRAWINGS. FIRE ALARM CONTRACTOR SHOULD VERIFY THAT THE REMOTE RESET UNIT TEST MODE FUNCTION OPERATES CORRECTLY PRIOR TO ANY AHJ INSPECTION. A COPY OF THE FIRE MARSHAL OR FIRE INSPECTORS SIGN OFF OF THE FIRE SYSTEM MUST BE INCLUDED IN THE GENERAL CONTRACTORS WARRANTY MANUAL.

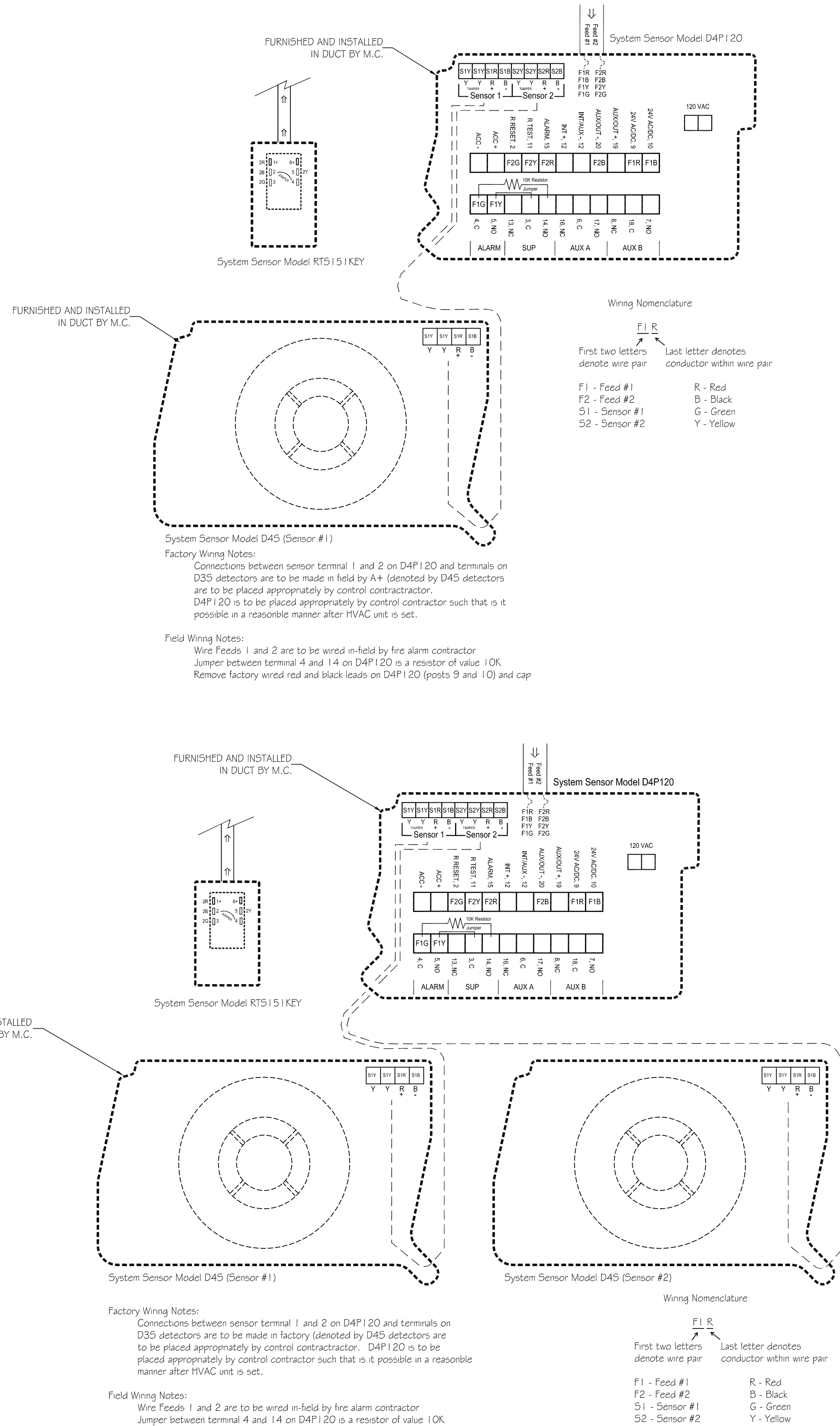
### IMPLEMENTATION

- CONTRACTOR SHALL COORDINATE SPECIFIC IMPLEMENTATION DESIGN MODIFICATIONS FOR DEVICE PLACEMENT WITH RESPECT TO ARCHITECTURAL ELEVATIONS. ANY MODIFIED PLACEMENT MUST BE DISCUSSED WITH THE OWNER PRIOR TO ANY INSTALLATION ACTIVITY TO ASSURE PLACEMENT LOCATION DOES NOT IMPDE THE OWNERS USE OF THAT AREA.
- VERIFY WITH THE AUTHORITY HAVING JURISDICTION BEFORE PERFORMING ANY OF THE FOLLOWING FIRE ALARM WORK. IDENTITY OWNERS DESIRED "CONTROL CENTER" LOCATION IN OFFICE AREA. COORDINATE REMOTE ANNUNCIATOR PANEL LOCATION AT AHJ'S DIRECTION (TO BE CREDITED BACK TO THE OWNER IF NOT REQUIRED). ACKNOWLEDGMENT OF ADDRESSABLE SYSTEM HIERARCHY WITH RESPECT TO THE OWNERS ZONES/GROUPINGS SO ADDRESSABLE PROGRAMMING CAN BE AGREED UPON THAT FIRE ALARM SYSTEM CAN BE USED FOR NON-LIFE SAFETY TROUBLES LIKE REFRIGERATION OR DOOR ALARMS. SUPERVISORY ALERTS PROVIDED THE SYSTEM IS PROGRAMMED SO NO AUTHORITIES ARE NOTIFIED FOR NON-LIFE SAFETY TROUBLES.

### HVAC SCOPE OF WORK

- DUCT SMOKE DETECTORS SHALL BE FURNISHED AND INSTALLED IN DUCT BY MECHANICAL CONTRACTOR. SEE SCHEDULE ON DRAWING.
- DUCT SMOKE DETECTORS THAT MUST BE FIELD MOUNTED ON CUSTOM ROOFTOP UNITS (USUALLY RTU-1 AND 2), WILL BE SUPPLIED AND INSTALLED BY THE SHEET METAL CONTRACTOR. SHEET METAL CONTRACTOR IS TO USE SYSTEM SENSOR NUMBER D4120.
- SYSTEM SENSOR MODEL NUMBER D4120 IS COMPRISED OF TWO COMPONENTS. 1) SYSTEM SENSOR MODEL NUMBER DP4120 IS A CONTROL MODULE. 2) SYSTEM SENSOR MODEL NUMBER D45 IS THE SMOKE DETECTOR.
- SHEET METAL CONTRACTOR OR ANY PARTY PERFORMING WORK FOR SHEET METAL CONTRACTOR SHALL BE RESPONSIBLE FOR CORRECT PLACEMENT.
- RTU SMOKE DETECTION SHALL FALL INTO ONE OF THE TWO FOLLOWING SCENARIOS:  
A) RTUS WHICH REQUIRE BOTH SUPPLY AND RETURN SMOKE DETECTORS (>2000 CFM) SHALL RECEIVE TWO DUCT SMOKE DETECTORS (D45) WHICH ARE APPROPRIATELY WIRED TO A CENTRAL, SEPARATE CONTROL MODULE (DP4120). THE CONTROL MODULE (DP4120) SHALL BE PLACED IN A LOCATION SUCH THAT FIRE ALARM CONTRACTOR CAN ACCESS CONTROL MODULE IN A REASONABLE MANNER.  
B) RTUS WHICH REQUIRE ONLY RETURN SIDE SMOKE DETECTION (<2000 CFM) SHALL RECEIVE ONE SMOKE DETECTOR/CONTROL MODULE COMBO (D4120). IF DETECTOR PLACEMENT REQUIRES SEPARATION OF THE COMBINATION (D4120) INTO ITS TWO COMPONENTS, DP4120 (CONTROL MODULE) AND D45 (SMOKE DETECTOR), IN ORDER TO HAVE THE CONTROL MODULE BE ACCESSIBLE FOLLOWING INSTALLATION, THEN THIS SHALL BE DONE.
- FIRE ALARM CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER WIRING OF THE DUCT DETECTOR CONTROL MODULES. THIS INCLUDES ANY WIRING BETWEEN THE FIRE ALARM CONTROL PANEL AND THE DUCT DETECTOR CONTROL MODULE AND ANY WIRING BETWEEN THE DUCT DETECTOR TEST/RESET SWITCH AND THE DUCT DETECTOR CONTROL MODULE.
- CONTROL CONTRACTOR SHALL BE RESPONSIBLE FOR ANY WIRING BETWEEN DUCT DETECTOR CONTROL MODULES AND DUCT SMOKE DETECTORS.
- FIRE ALARM CONTRACTOR SHALL FURNISH, INSTALL, AND WIRE ALL REMOTE RESET STATIONS.
- CONTROL CONTRACTOR IS REQUIRED TO ASSURE THE HVAC UNIT WILL SHUT DOWN IN THE EVENT OF A SMOKE DETECTOR TRIP.

SMOKE DETECTOR COORDINATION SCHEDULE						
UNIT TAG	AREA SERVED	SUPPLY AIRFLOW (CFM)	AIR SMOKE DETECTION (YES/NO)	REQUIRED DUCT MOUNTED SMOKE DETECTOR LOCATIONS	SMOKE DETECTORS	TRADE RESPONSIBILITY
RTU-1	SOUTH SALES	17,000		RETURN	MC	SEE SCOPE OF WORK
RTU-2	NORTH SALES	17,000		RETURN	MC	SEE SCOPE OF WORK
RTU-3 (EXISTING)	DINING	3,400		RETURN	MC	SEE SCOPE OF WORK
RTU-4 (EXISTING)	EXIT VESTIBULE	3,500		RETURN	MC	SEE SCOPE OF WORK
RTU-5 (EXISTING)	ENTRY VESTIBULE	3,500		RETURN	MC	SEE SCOPE OF WORK
RTU-6	PHARMACY	1,800		RETURN	MC	SEE SCOPE OF WORK
RTU-7 (EXISTING)	PHARMACY	2,640		NONE		
RTU-8 (EXISTING)	FROZEN	2,400		RETURN	MC	SEE SCOPE OF WORK
RTU-9	KITCHEN	3,200		RETURN	MC	SEE SCOPE OF WORK
RTU-10	OFFICES	1,950		RETURN	MC	SEE SCOPE OF WORK
RTU-11	ADULT/CUSTOMER SERVICE	3,200		RETURN	MC	SEE SCOPE OF WORK
RTU-12	WINE & SPIRITS	3,200		RETURN	MC	SEE SCOPE OF WORK
CODE REQUIREMENTS:				TRADE RESPONSIBILITY LEGEND:		
1. NFPA 90.6.42 -SMOKE DETECTORS LISTED FOR USE IN AIR DISTRIBUTION SYSTEM SHALL BE LOCATED DOWNSTREAM OF THE AIR FILTERS AND AHEAD OF ANY BRANCH CONNECTIONS IN AIR SUPPLY SYSTEMS HAVING A CAPACITY GREATER THAN 2000 CFM.				EC = ELECTRICAL CONTRACTOR		
2. 2015 IMC 606.2.1 - SMOKE DETECTORS SHALL BE INSTALLED IN RETURN AIR SYSTEMS WITH A DESIGN CAPACITY GREATER THAN 2000 CFM, IN THE RETURN AIR DUCT OR PLENUM UPSTREAM OF ANY FILTERS, OR OTHER AIR CONNECTIONS.				OV = OWNERS VENDOR		
3. NFPA 90 AND IMC EXCEPTION - SMOKE DETECTORS ARE NOT REQUIRED IN THE RETURN AIR SYSTEM WHERE ALL PORTIONS OF THE BUILDING SERVED BY THE AIR DISTRIBUTION SYSTEM ARE PROTECTED BY AREA SMOKE DETECTORS CONNECTED TO A FIRE ALARM SYSTEM.				FAC = FACTORY PROVIDED		
4. NFPA 90 AND IMC CONTROLS - WHERE AN APPROVED FIRE ALARM SYSTEM IS INSTALLED IN BUILDING, THE SMOKE DETECTORS SHALL BE CONNECTED TO THE FIRE ALARM SYSTEM.				FC = FIRE ALARM CONTRACTOR		
5. NFPA 90 AND IMC CONTROLS - UPON ACTIVATION, THE SMOKE DETECTORS SHALL SHUT DOWN ALL OPERATIONAL CAPABILITIES OF THE AIR DISTRIBUTION SYSTEM AND SHALL ACTIVATE A VISIBLE AND AUDIBLE SIGNAL AT A CONSTANT ATTENDED OR APPROVED LOCATION.				MC = MECHANICAL CONTRACTOR		
				TRADE RESPONSIBILITY NOTES:		
				1. THIS LISTING IN NO WAY SUMMARIZES THE SCOPE OF WORK REQUIRED TO BE PERFORMED BY THE CONTRACTORS.		
				2. FOR OWNER VENDOR FURNISHED ITEMS THE INSTALLING CONTRACTOR MAY ALSO BE REQUIRED TO RECEIVE, INVENTORY, PROTECT, STORE AND ASSEMBLE THE EQUIPMENT.		
				3. SEE THE SPECIFICATIONS, DRAWINGS AND MANUFACTURERS INSTALLATION RECOMMENDATION FOR COMPLETE DETAILED INSTALLATION REQUIREMENTS.		
				4. PROVIDE MEANS TO FURNISH AND INSTALL.		
				5. LOW VOLTAGE CABLE MATERIAL IS PROVIDED BY THE CONTROLS CONTRACTOR AND INSTALLED BY EC.		



LOCATION:  
LEES SUMMIT #2, MO

HY-VEE INC.  
5820 WESTOWN PARKWAY  
WEST DES MOINES, IOWA 50266  
TEL: (515) 267-2600  
FAX: (515) 267-2635

HyVee®  
EMPLOYEE OWNED



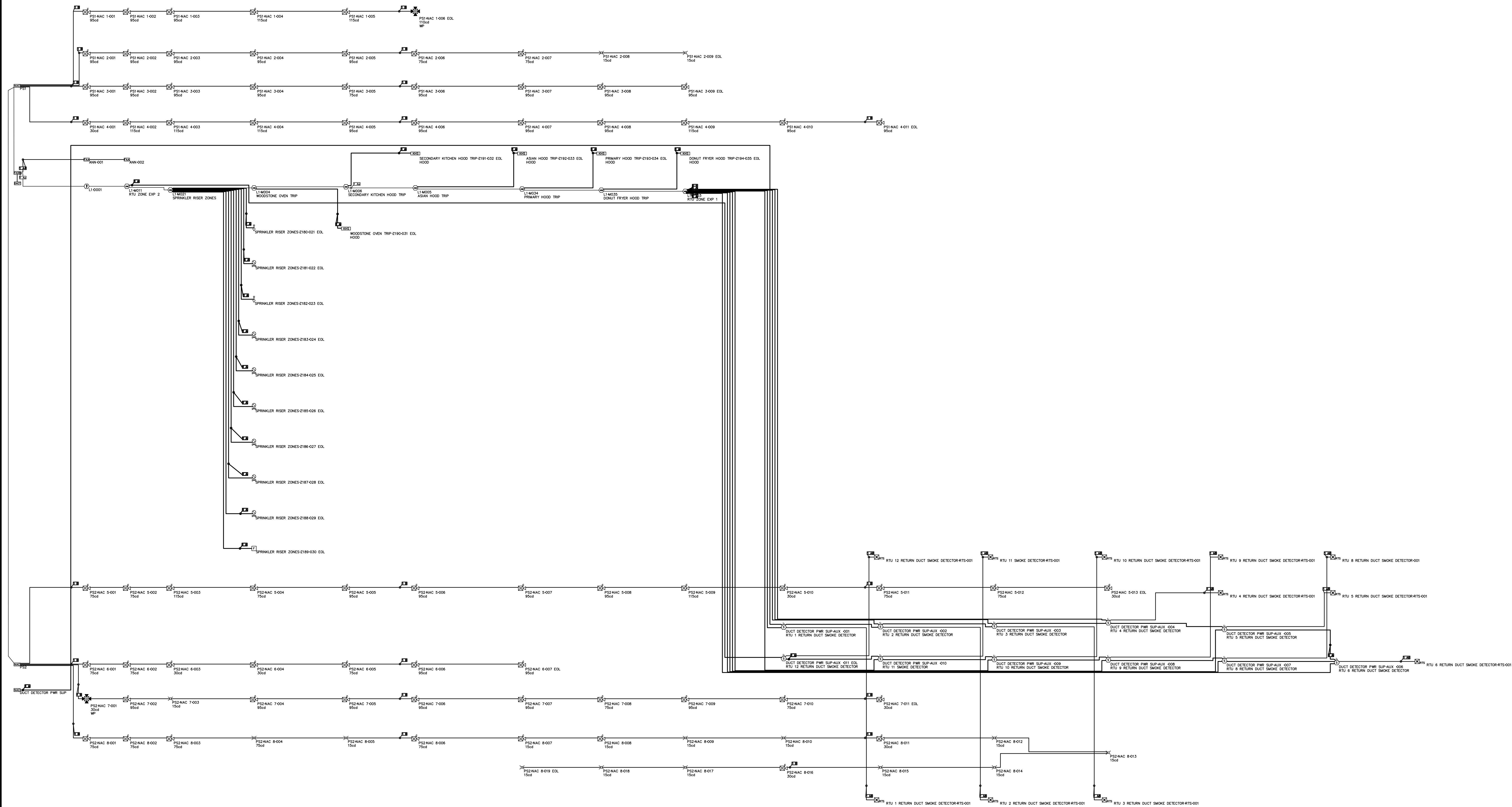
FIRE PLAN  
SCHEDULES  
NOTES AND  
DETAILS

DRAWN: BP	DATE: OCT 2020
SCALE: SEE SHEET	JOB NUMBER:
SHEET:	

T4.1



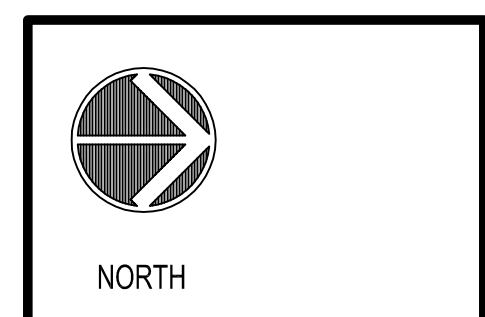
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1 FIRE ALARM RISER DIAGRAM  
SCALE: NTS



LOCATION:  
**LEES SUMMIT #2, MO**  
HY-VEE, INC.  
5820 WESTOWN PARKWAY  
WEST DES MOINES, IOWA 50266  
TELEPHONE: (515) 267-2800  
FAX: (515) 267-2833  
**Hy-Vee**  
EMPLOYEE OWNED



FIRE ALARM  
RISER DIAGRAM

DRAWN: ALW	DATE: OCT. 2020
SCALE: NTS	JOB NUMBER:
SHEET:	

T4.2



BATTERY CALCULATION									
SECONDARY POWER SOURCE REQUIREMENTS									
				STANDBY CURRENT (AMPS)		SECONDARY ALARM CURRENT (AMPS)			
		QTY	PART NO	DESCRIPTION	CURRENT DRAW (A)	TOTAL (A)	CURRENT DRAW (A)	TOTAL (A)	
PANEL COMPONENTS		1	ES-200X MAIN BOARD	Intelligent, Addressable FACP with Communicator--MAIN BOARD	1 x 0.141	= 0.141	1 x 0.257	= 0.257	
CIRCUIT		SYMBOL	QTY	PART NO	DESCRIPTION	CURRENT DRAW (A)	TOTAL (A)	CURRENT DRAW (A)	TOTAL (A)
ANN		ES	2	ANN-80	80-Character LCD Annunciator	2 x 0.045	= 0.09	2 x 0.16	= 0.32
REMOTE SYNC		1	CELL-MOD	Cellular Communicator	1 x 0.055	= 0.055	1 x 0.100	= 0.100	
L1		1	FMM-101	Remote Sync to Notification Power Supplies	1 x 0.02	= 0.02	1 x 0.0217	= 0.0217	
		5	FMM-101	Addressable Mini Monitor Module	5 x 0.0003	= 0.0015	5 x 0.0003	= 0.0015	
		1	SD355(A)/B210LP	DETECTOR, SMOKE, ADDRESSABLE PHOTO W/STANDARD BASE	1 x 0.0003	= 0.0003	1 x 0.0065	= 0.0065	
		3	XP10-M	Ten Input Monitor Module	3 x 0.003	= 0.009	3 x 0.003	= 0.009	
		TOTAL STANDBY (A)				0.3168	TOTAL ALARM (A)	0.694	
		REQUIRED STANDBY TIME = 24.00 HOURS							
		REQUIRED ALARM TIME = 5 MINUTES							
		SECONDARY STANDBY LOAD				0.316			
		STANDBY AND ALARM LOAD SUBTOTAL				0.694			
		DERATING FACTOR				x 0.0833			
		SECONDARY LOAD REQUIREMENTS (AMP HOURS)							
		PROVIDE (2) 12V 12AH BATTERIES @ 24VDC							

PANEL DUCT DETECTOR PWR SUP (AL300) BATTERY CALCULATION									
SECONDARY POWER SOURCE REQUIREMENTS									
				STANDBY CURRENT (AMPS)		SECONDARY ALARM CURRENT (AMPS)			
		QTY	PART NO	DESCRIPTION	CURRENT DRAW (A)	TOTAL (A)	CURRENT DRAW (A)	TOTAL (A)	
PANEL COMPONENTS		1	AL300 Main Board	Fire Alarm Aux Power Supply Main Board	1 x 0.00	= 0.00	1 x 0.069	= 0.069	
CIRCUIT		SYMBOL	QTY	PART NO	DESCRIPTION	CURRENT DRAW (A)	TOTAL (A)	CURRENT DRAW (A)	TOTAL (A)
DUCT DETECTOR PWR SUP/ALUX		D	11	D4120	4-Wire Photoelectric Duct Smoke Detector	11 x 0.021	= 0.231	11 x 0.00	= 0.00
		TOTAL STANDBY (A)				0.231	TOTAL ALARM (A)	0.069	
		REQUIRED STANDBY TIME = 24.00 HOURS							
		REQUIRED ALARM TIME = 5 MINUTES							
		SECONDARY STANDBY LOAD				0.231			
		STANDBY AND ALARM LOAD SUBTOTAL				0.069			
		DERATING FACTOR				x 0.0833			
		SECONDARY LOAD REQUIREMENTS (AMP HOURS)							
		PROVIDE (2) 12V 7AH BATTERIES @ 24VDC							

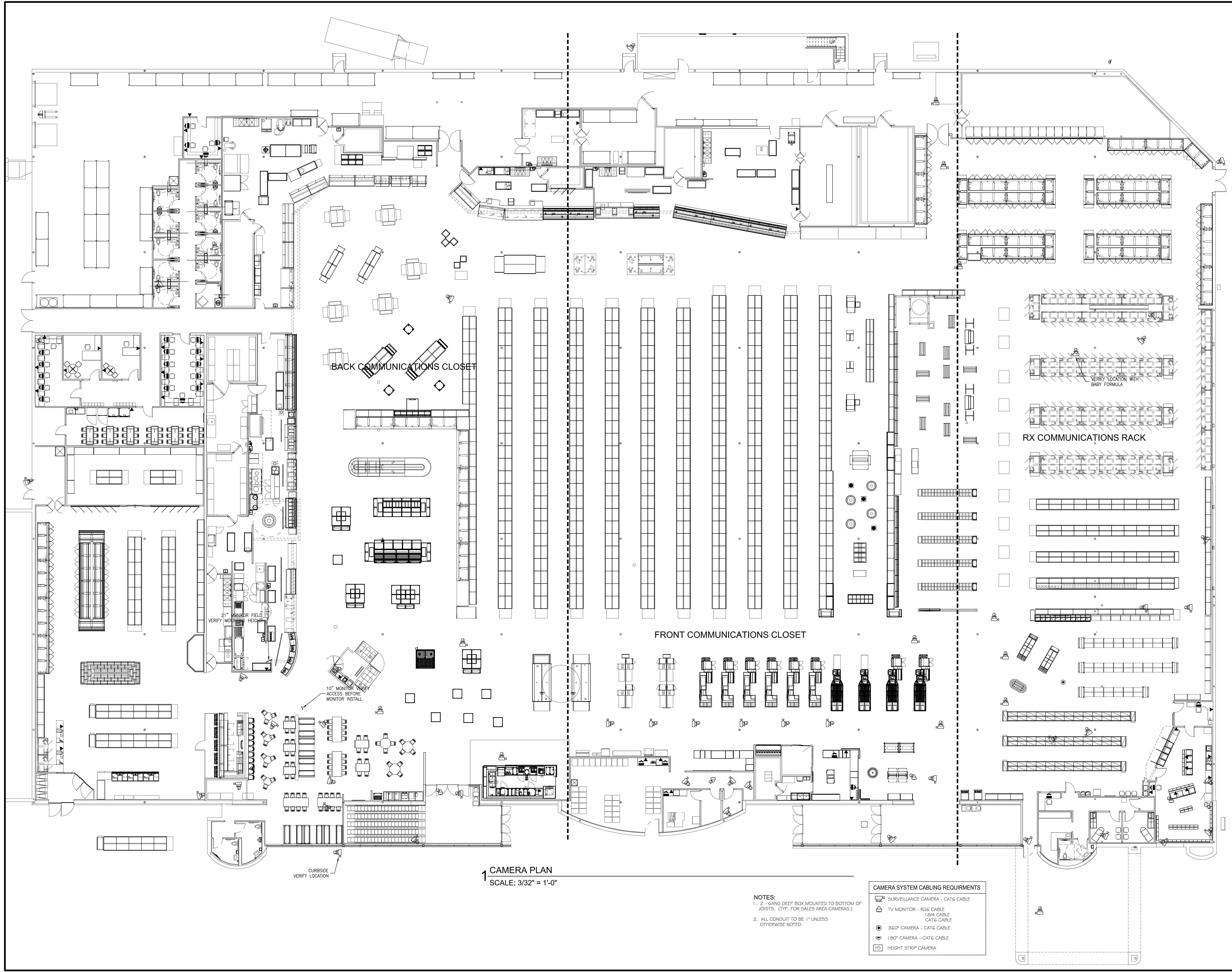
PANEL PS1 (FCPS-2458) BATTERY CALCULATION									
SECONDARY POWER SOURCE REQUIREMENTS									
				STANDBY CURRENT (AMPS)		SECONDARY ALARM CURRENT (AMPS)			
		QTY	PART NO	DESCRIPTION	CURRENT DRAW (A)	TOTAL (A)	CURRENT DRAW (A)	TOTAL (A)	
PANEL COMPONENTS		1	FCPS-2458 Main Board	Fire Alarm Power Supply Main Board	1 x 0.091	= 0.091	1 x 0.145	= 0.145	
CIRCUIT		SYMBOL	QTY	PART NO	DESCRIPTION	CURRENT DRAW (A)	TOTAL (A)	CURRENT DRAW (A)	TOTAL (A)
PS1-NAC 1		1	PC2WK	2-Wire Horn/Strobe ceiling/outdoor white 115cd	1 x 0.00	= 0.00	1 x 0.221	= 0.221	
		3	PC2WL	2-Wire, Horn Strobe, White 75cd	3 x 0.00	= 0.00	3 x 0.165	= 0.495	
		2	PC2WL	2-Wire, Horn Strobe, White 115cd	2 x 0.00	= 0.00	2 x 0.187	= 0.374	
		2	PC2WL	2-Wire, Horn Strobe, White 75cd	2 x 0.00	= 0.00	2 x 0.143	= 0.286	
		5	PC2WL	2-Wire, Horn Strobe, White 95cd	5 x 0.00	= 0.00	5 x 0.165	= 0.825	
		2	SCWL	Ceiling Strobe white 15cd	2 x 0.00	= 0.00	2 x 0.066	= 0.132	
		1	PC2WL	2-Wire, Horn Strobe, White 75cd	1 x 0.00	= 0.00	1 x 0.143	= 0.143	
		8	PC2WL	2-Wire, Horn Strobe, White 95cd	8 x 0.00	= 0.00	8 x 0.165	= 1.32	
		1	PC2WL	2-Wire, Horn Strobe, White 30cd	1 x 0.00	= 0.00	1 x 0.09	= 0.09	
		6	PC2WL	2-Wire, Horn Strobe, White 95cd	6 x 0.00	= 0.00	6 x 0.165	= 0.99	
		4	PC2WL	2-Wire, Horn Strobe, White 115cd	4 x 0.00	= 0.00	4 x 0.187	= 0.748	
		TOTAL STANDBY (A)				0.091	TOTAL ALARM (A)	5.769	
		REQUIRED STANDBY TIME = 24.00 HOURS							
		REQUIRED ALARM TIME = 5 MINUTES							
		SECONDARY STANDBY LOAD				0.091			
		STANDBY AND ALARM LOAD SUBTOTAL				5.769			
		DERATING FACTOR				x 0.0833			
		SECONDARY LOAD REQUIREMENTS (AMP HOURS)							
		PROVIDE (2) 12V 7AH BATTERIES @ 24VDC							

PANEL PS2 (FCPS-2458) BATTERY CALCULATION									
SECONDARY POWER SOURCE REQUIREMENTS									
				STANDBY CURRENT (AMPS)		SECONDARY ALARM CURRENT (AMPS)			
		QTY	PART NO	DESCRIPTION	CURRENT DRAW (A)	TOTAL (A)	CURRENT DRAW (A)	TOTAL (A)	
PANEL COMPONENTS		1	FCPS-2458 Main Board	Fire Alarm Power Supply Main Board	1 x 0.091	= 0.091	1 x 0.145	= 0.145	
CIRCUIT		SYMBOL	QTY	PART NO	DESCRIPTION	CURRENT DRAW (A)	TOTAL (A)	CURRENT DRAW (A)	TOTAL (A)
PS2-NAC 5		2	PC2WL	2-Wire, Horn Strobe, White 30cd	2 x 0.00	= 0.00	2 x 0.09	= 0.18	
		5	PC2WL	2-Wire, Horn Strobe, White 75cd	5 x 0.00	= 0.00	5 x 0.143	= 0.715	
		4	PC2WL	2-Wire, Horn Strobe, White 75cd	4 x 0.00	= 0.00	4 x 0.165	= 0.66	
		2	PC2WL	2-Wire, Horn Strobe, White 115cd	2 x 0.00	= 0.00	2 x 0.187	= 0.374	
		2	PC2WL	2-Wire, Horn Strobe, White 75cd	2 x 0.00	= 0.00	2 x 0.09	= 0.18	
		3	PC2WL	2-Wire, Horn Strobe, White 75cd	3 x 0.00	= 0.00	3 x 0.143	= 0.429	
		2	PC2WL	2-Wire, Horn Strobe, White 30cd	2 x 0.00	= 0.00	2 x 0.09	= 0.18	
		1	PC2WK	2-Wire Horn/Strobe ceiling/outdoor white 30cd	1 x 0.00	= 0.00	1 x 0.116	= 0.116	
		1	PC2WL	2-Wire, Horn Strobe, White 30cd	1 x 0.00	= 0.00	1 x 0.09	= 0.09	
		2	PC2WL	2-Wire, Horn Strobe, White 75cd	2 x 0.00	= 0.00	2 x 0.143	= 0.286	
		6	PC2WL	2-Wire, Horn Strobe, White 95cd	6 x 0.00	= 0.00	6 x 0.165	= 0.99	
		2	PC2WL	2-Wire, Horn Strobe, White 15cd	2 x 0.00	= 0.00	2 x 0.071	= 0.142	
		2	PC2WL	2-Wire, Horn Strobe, White 30cd	2 x 0.00	= 0.00	2 x 0.09	= 0.18	
		4	PC2WL	2-Wire, Horn Strobe, White 75cd	4 x 0.00	= 0.00	4 x 0.143	= 0.572	
		10	SCWL	Ceiling Strobe white 15cd	10 x 0.00	= 0.00	10 x 0.066	= 0.66	
		1	SCWL	Ceiling Strobe white 30cd	1 x 0.00	= 0.00	1 x 0.094	= 0.094	
		TOTAL STANDBY (A)				0.091	TOTAL ALARM (A)	6.143	
		REQUIRED STANDBY TIME = 24.00 HOURS							
		REQUIRED ALARM TIME = 5 MINUTES							
		SECONDARY STANDBY LOAD				0.091			
		STANDBY AND ALARM LOAD SUBTOTAL				6.143			
		DERATING FACTOR				x 0.0833			
		SECONDARY LOAD REQUIREMENTS (AMP HOURS)							
		PROVIDE (2) 12V 7AH BATTERIES @ 24VDC							

SPRING LAKE PARK HY-YEE FIRE ALARM SEQUENCE OF OPERATION MATRIX									
SYSTEM OUTPUTS									
		CONTROL UNIT		NOTIFICATION		FIRE ALARM CONTROL			
		DISP	ACT	DISP	ACT	DISP	ACT	DISP	ACT
TACP SMOKE DETECTOR									
SPINKLER RISER PULL STATION									
WOOD STOVE OVEN HOOD									
SECONDARY KITCHEN HOOD									
ASIAN HOOD									
PRIMARY KITCHEN HOOD									
DOIRUT FANER HOOD									
SPINKLER RISER PULL STATION									
SPINKLER WATER FLOWS									
SPINKLER TAMPERS									
BTU 1 RETURN DUCT SMOKE DETECTOR									
BTU 2 RETURN DUCT SMOKE DETECTOR									
BTU 3 RETURN DUCT SMOKE DETECTOR									
BTU 4 RETURN DUCT SMOKE DETECTOR									
BTU 5 RETURN DUCT SMOKE DETECTOR									
BTU 6 RETURN DUCT SMOKE DETECTOR									
BTU 8 RETURN DUCT SMOKE DETECTOR									
BTU 9 RETURN DUCT SMOKE DETECTOR									
BTU 10 RETURN DUCT SMOKE DETECTOR									
BTU 11 RETURN DUCT SMOKE DETECTOR									
BTU 12 RETURN DUCT SMOKE DETECTOR									
TACP LOW BATTERY									
TACP AC LOSS									
COMMUNICATOR TROUBLE									

DEVICE LEGEND				
DEVICE SYMBOL	QTY.	MANUFACTURER	PART NO.	DESCRIPTION
WP	2	SYSTEM SENSOR	PC2WK	2-WIRE HORN/STROBE CEILING/OUTDOOR WHITE
ES	1	FIRELITE	ES-200X	INTELLIGENT ADDRESSABLE FACP WITH COMMUNICATOR
RTS15KEY	11	SYSTEM SENSOR	RTS15KEY	REMOTE TEST STATION W/ SWITCH, ALARM & POWER LEDS, KEY RESET
FCPS-2458	2	FIRELITE	FCPS-2458	8-AMP, 24-VOLT POWER SUPPLY
AL300	1	ALTRONIX	AL300	3 AMP, 24-VOLT POWER SUPPLY
ANN-80	2	FIRELITE	ANN-80	80-CHARACTER LCD ANNUNCIATOR
CELL-MOD	2	FIRELITE	CELL-MOD	WIRELESS COMMERCIAL FIRE ALARM COMMUNICATOR
SD355(A)/B210LP	1	FIRELITE	SD355(A)/B210LP	DETECTOR, SMOKE, ADDRESSABLE PHOTO W/STANDARD BASE
MANUAL PULL	1	FIRELITE	MANUAL PULL	80-12L MANUAL PULL STATION
D4120	11	SYSTEM SENSOR	D4120	4-WIRE PHOTOELECTRIC DUCT SMOKE DETECTOR INSTALLED AND PROVIDED BY OTHERS
XP10-M	3	FIRELITE	XP10-M	TEN INPUT MONITOR MODULE
MMF-301	5	FIRELITE	MMF-301	ADDRESSABLE MINI MONITOR MODULE
HOOD SYSTEM MONITOR	14	SYSTEM SENSOR	SCWL	CONTACT DEVICE PROVIDED AND INSTALLED BY





1 CAMERA PLAN  
SCALE: 3/32" = 1'-0"

- NOTES:
- 1. 2" GANG DEEP BOX MOUNTED TO BOTTOM OF JOISTS. (TYP. FOR SALES AREA CAMERAS.)
  - 2. ALL CONDUIT TO BE 1" UNLESS OTHERWISE NOTED.

CAMERA SYSTEM CABLING REQUIREMENTS	
	SURVEILLANCE CAMERA - CAT6 CABLE
	TV MONITOR - RG6 CABLE
	1.8V4 CABLE
	CAT6 CABLE
	360° CAMERA - CAT6 CABLE
	1.80° CAMERA - CAT6 CABLE
	HEIGHT STRIP CAMERA

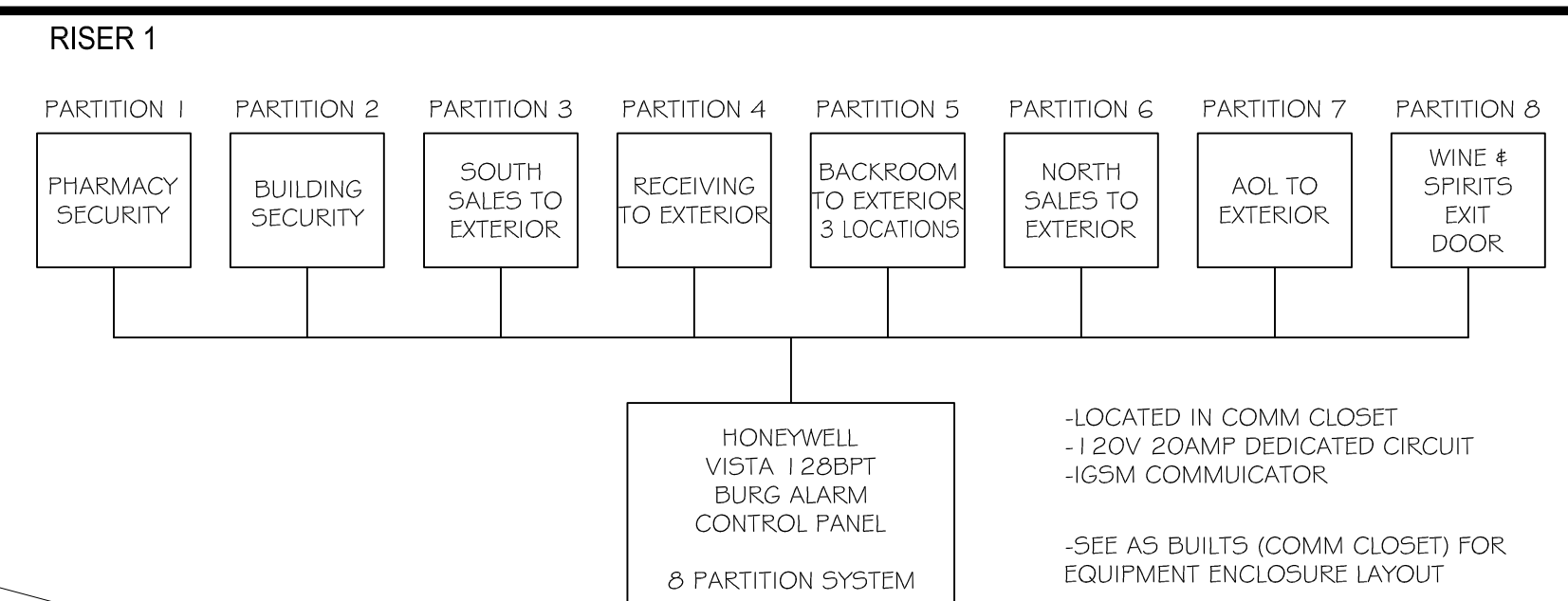


LOCATION: LEES SUMMIT #2, MO  
HY-VEE, INC.  
5820 WESTOWN PARKWAY  
WEST DES MOINES, IOWA 50266  
TELEPHONE: (515) 267-2800  
FAX: (515) 267-2835  
EMPLOYEE OWNED



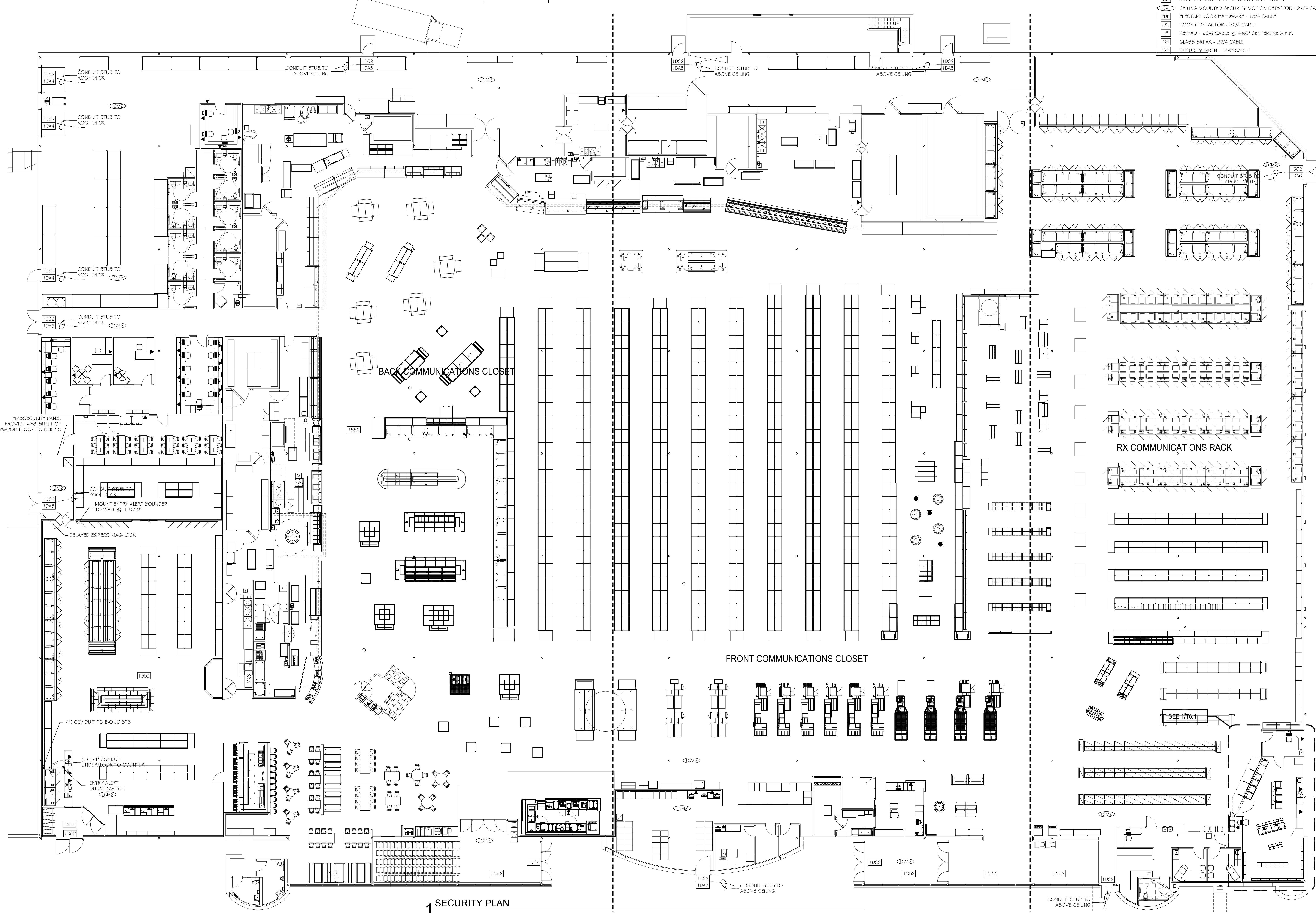
CAMERA PLAN





SECURITY SYSTEM CABLING REQUIREMENTS	
CA	ACCESS DOOR TO INCLUDE CARD READER - 1/8" SHIELD CABLE REQUEST TO EXIT MOTION - 22/6 CABLE DOOR CONTACTOR - BLUE BROWN CONDUCTORS ON RED MOTION CABLE ELECTRIC DOOR STRIKE - 1/8" CABLE
DA	SECURITY LOCAL DOOR ALARM 1 DOOR CONTACT - RED BLACK CONDUCTORS ON SIREN CABLE 1 SIREN - 1/8" CABLE 1 KEYPAD - 1/8" CABLE
CR	ACCESS CONTROL CARD READER - 1/8" SHIELD CABLE
REI	ACCESS CONTROL REQUEST TO EXIT MOTION - 22/6 CABLE
MD	MOTION DETECTOR - 22/4 CABLE
EMD	SECURITY MOTION DETECTOR - 22/6 CABLE
ICOM	INTERCOM - CAT 6 CABLE
SE	SECURITY EQUIPMENT ENCLOSURE (11x15x4)
CM	CEILING MOUNTED SECURITY MOTION DETECTOR - 22/4 CABLE
EDH	ELECTRIC DOOR HARDWARE - 1/8" CABLE
DC	DOOR CONTACTOR - 22/4 CABLE
KP	KEYPAD - 22/6 CABLE @ 4"60" CENTERLINE A.F.F.
GB	GLASS BREAK - 22/4 CABLE
SS	SECURITY SIREN - 1/8" CABLE

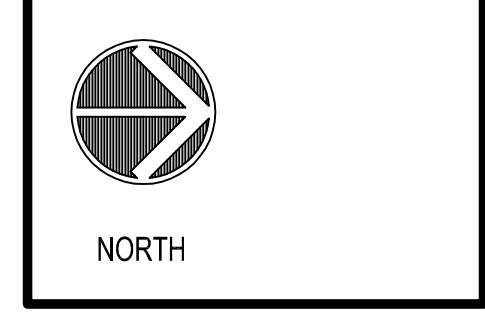
REVISION



LOCATION: LEES SUMMIT #2, MO

HY-VEE, INC.  
5820 WESTOWN PARKWAY  
WEST DES MOINES, IOWA 50266  
TEL: (515) 267-2680  
FAX: (515) 267-2685

**Hy-Vee**  
EMPLOYEE OWNED

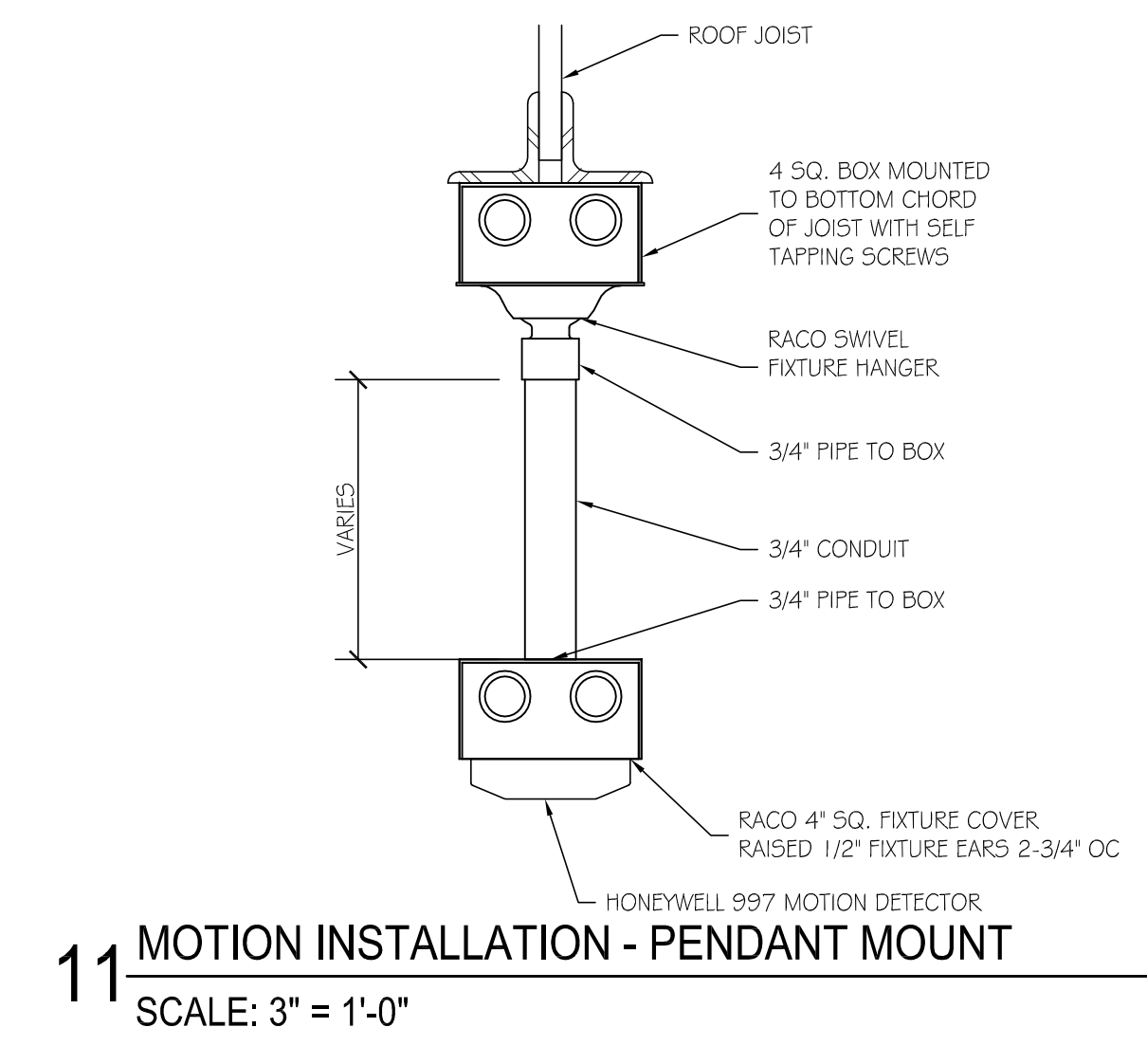


SECURITY PLAN

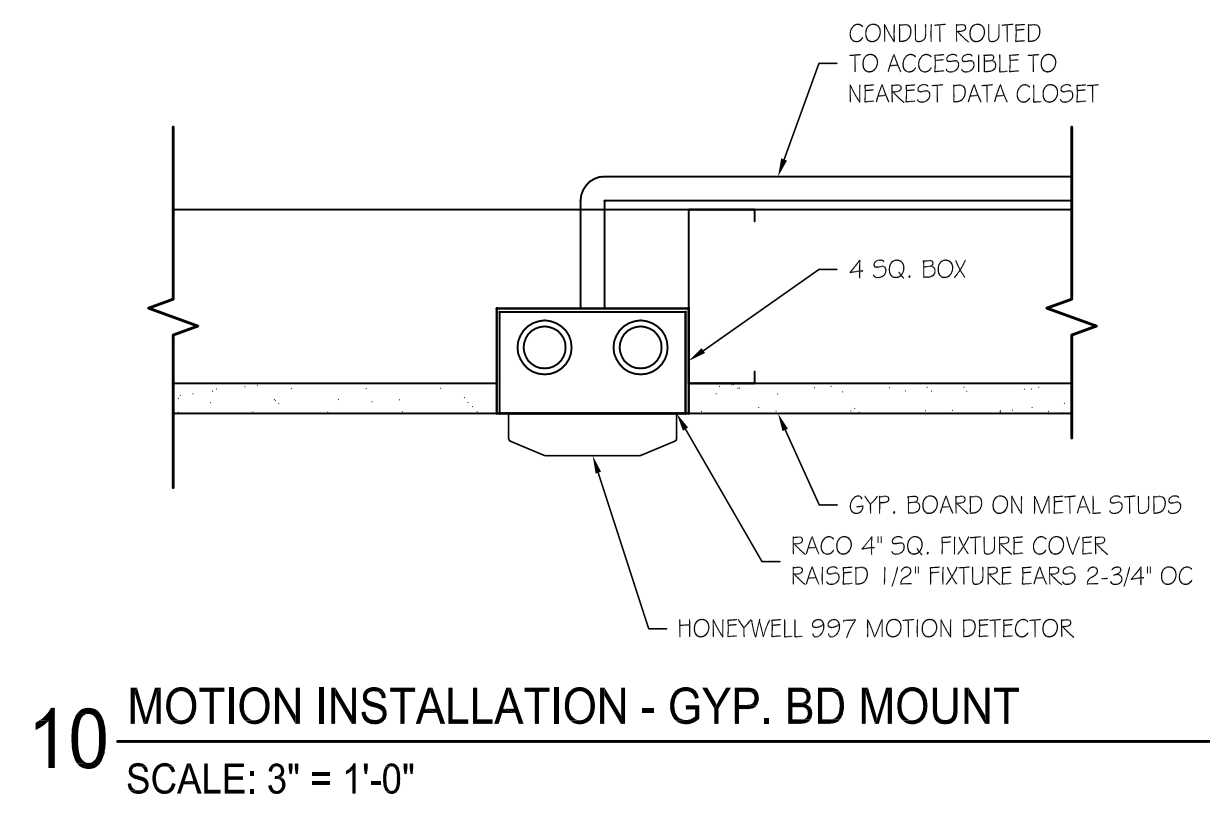
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DATE: OCT. 2020  
SCALE: 3/32" = 1'-0"  
JOB NUMBER:  
SHEET:

**T6.0**

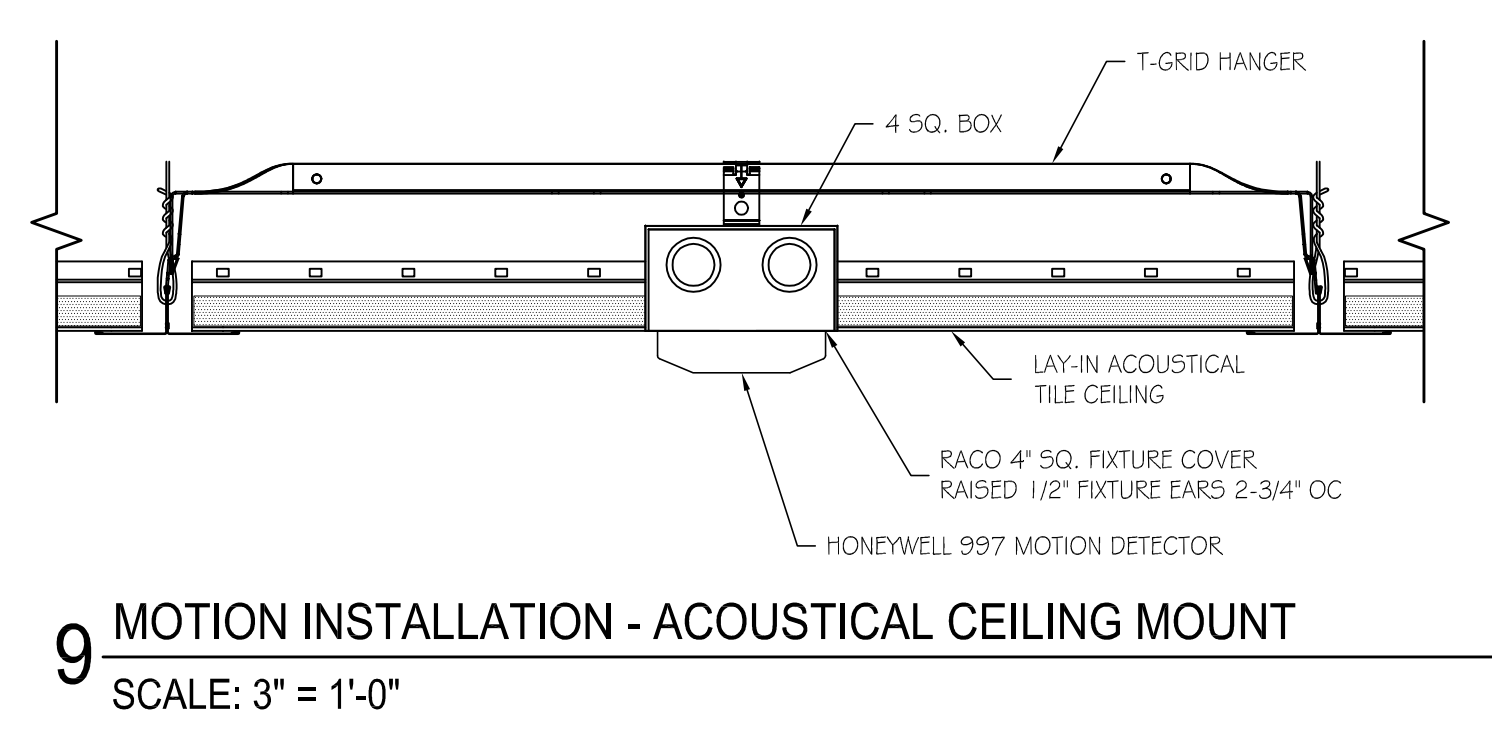




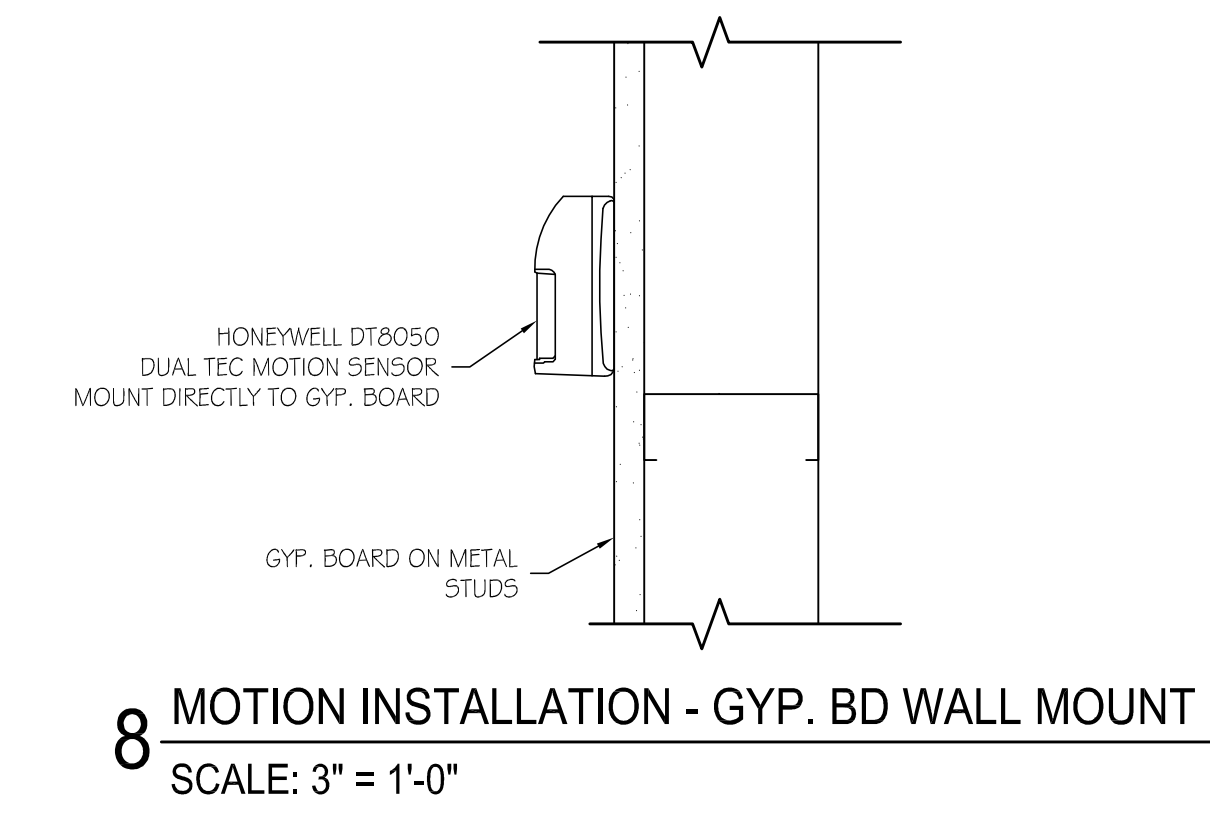
11 MOTION INSTALLATION - PENDANT MOUNT  
SCALE: 3" = 1'-0"



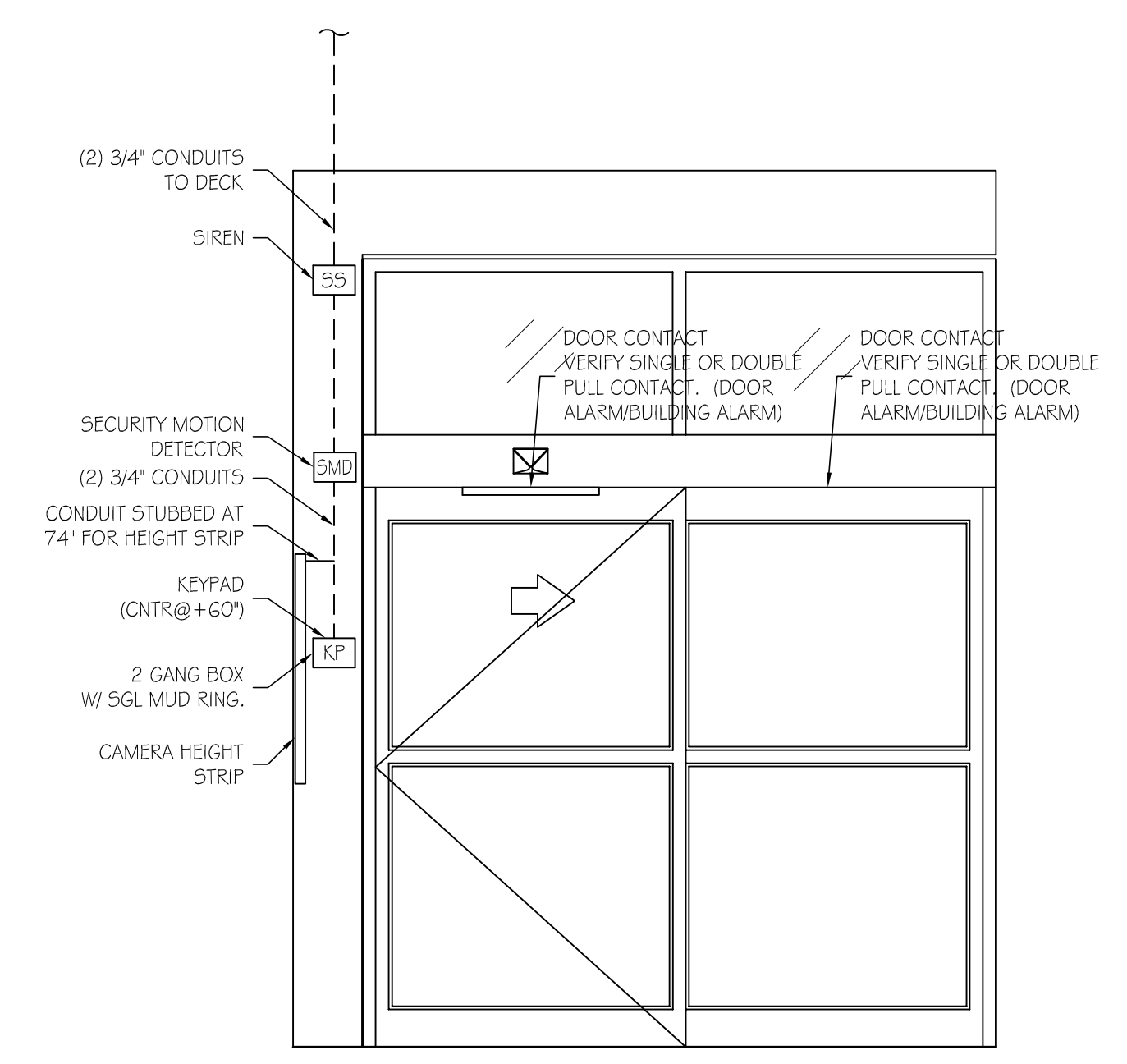
10 MOTION INSTALLATION - GYP. BD MOUNT  
SCALE: 3" = 1'-0"



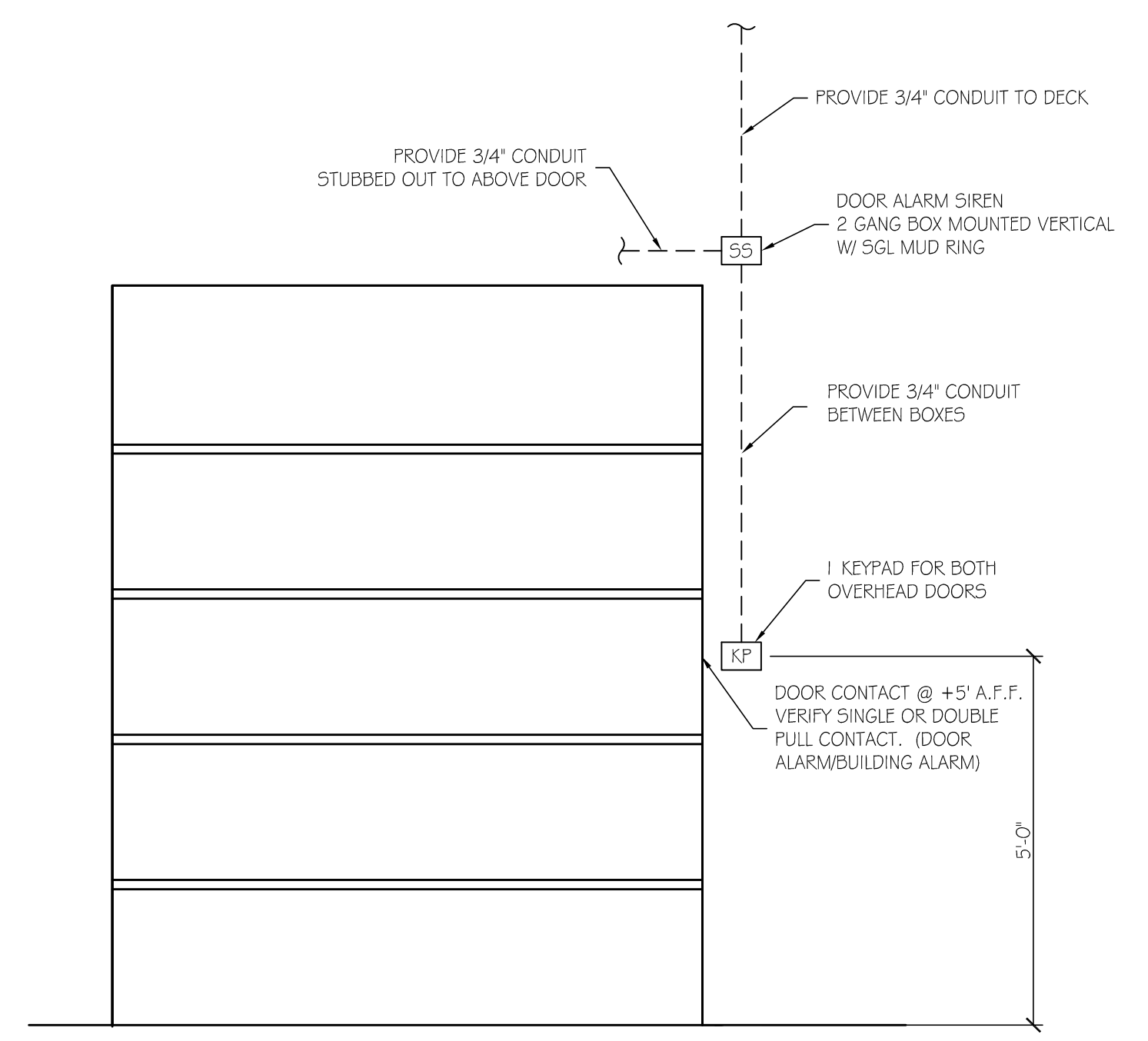
9 MOTION INSTALLATION - ACOUSTICAL CEILING MOUNT  
SCALE: 3" = 1'-0"



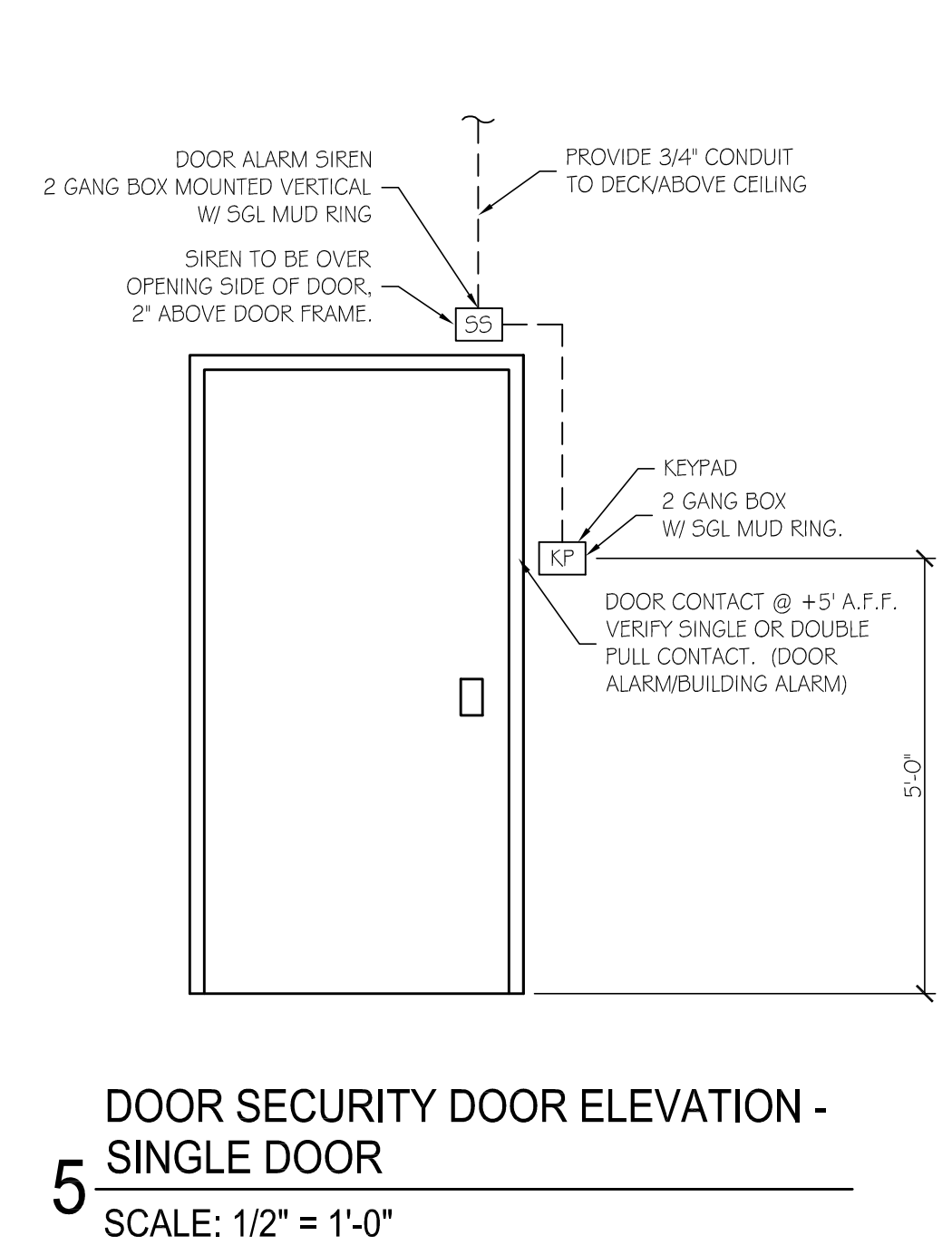
8 MOTION INSTALLATION - GYP. BD WALL MOUNT  
SCALE: 3" = 1'-0"



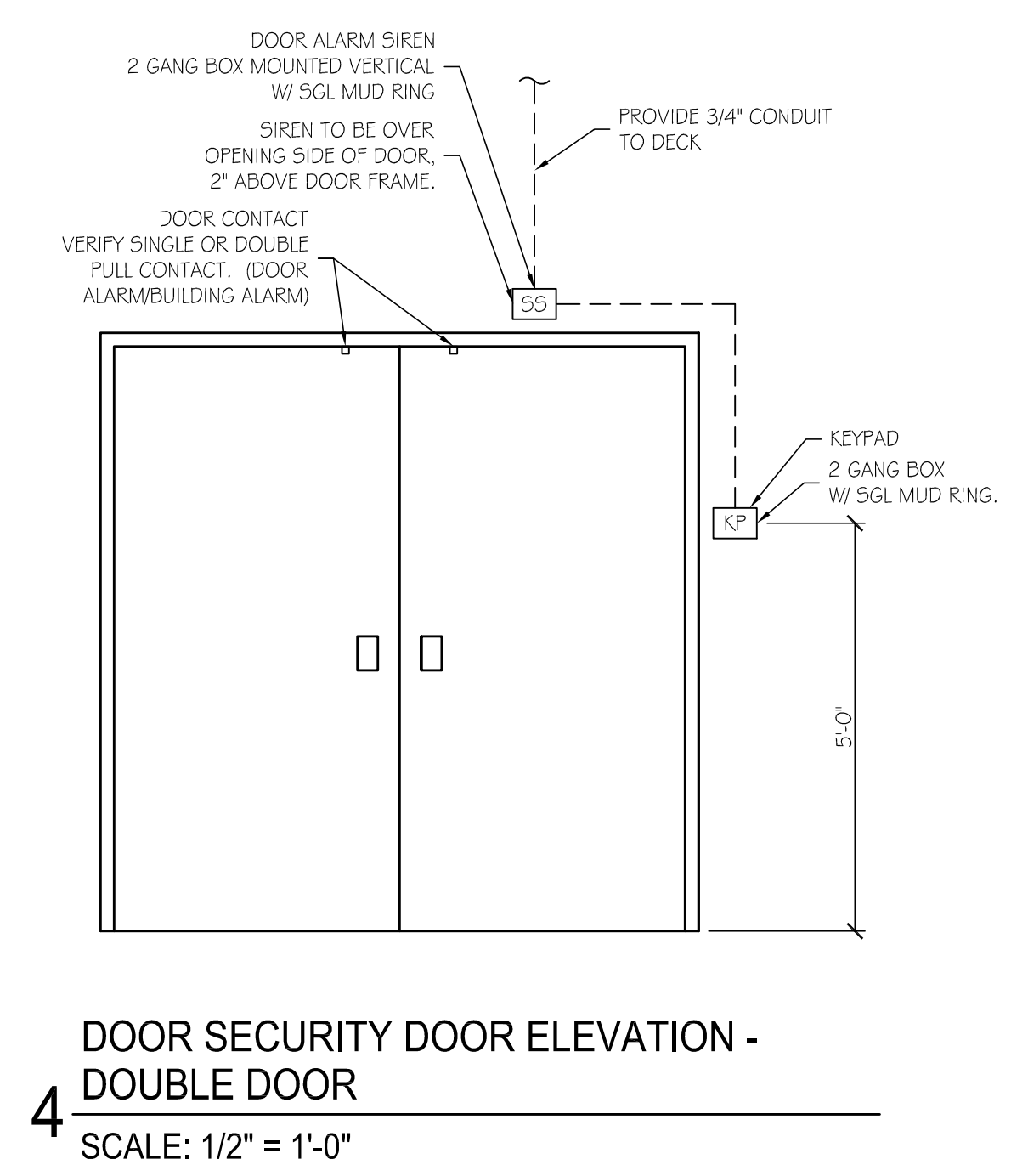
7 DOOR SECURITY DOOR ELEVATION - W&S  
SCALE: 1/2" = 1'-0"



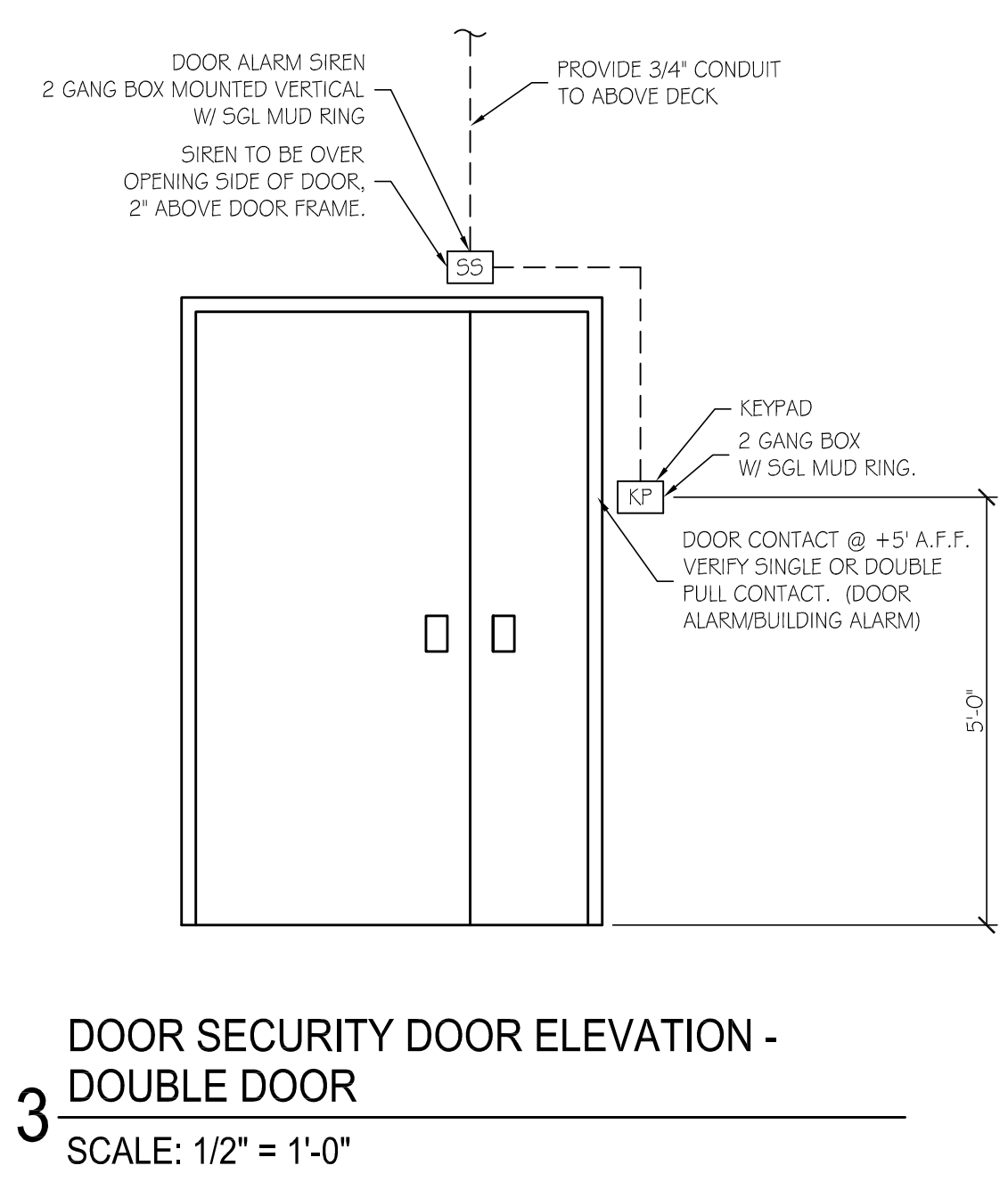
6 DOOR SECURITY DOOR ELEVATION - OVERHEAD DOOR  
SCALE: 1/2" = 1'-0"



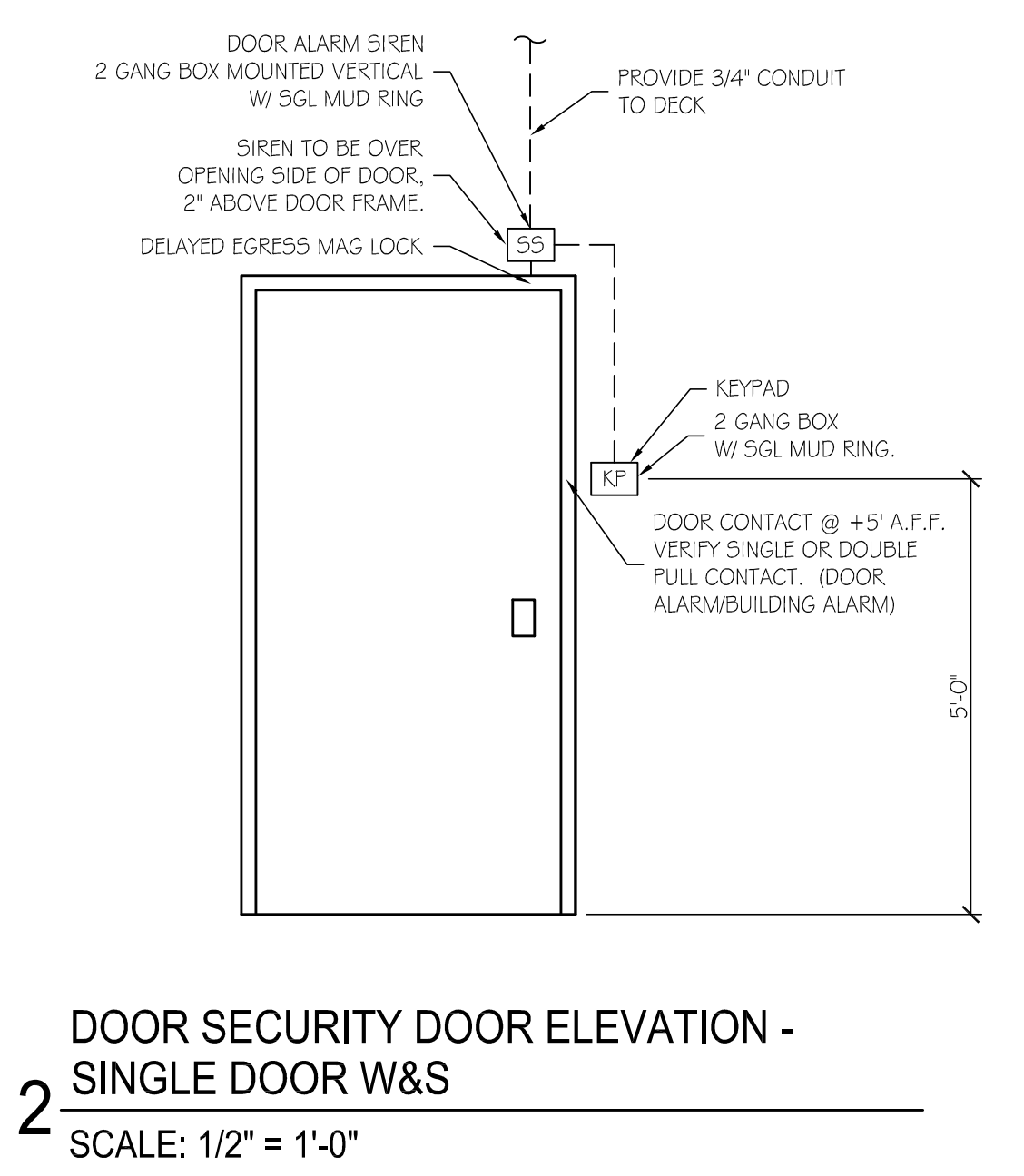
5 DOOR SECURITY DOOR ELEVATION - SINGLE DOOR  
SCALE: 1/2" = 1'-0"



4 DOOR SECURITY DOOR ELEVATION - DOUBLE DOOR  
SCALE: 1/2" = 1'-0"

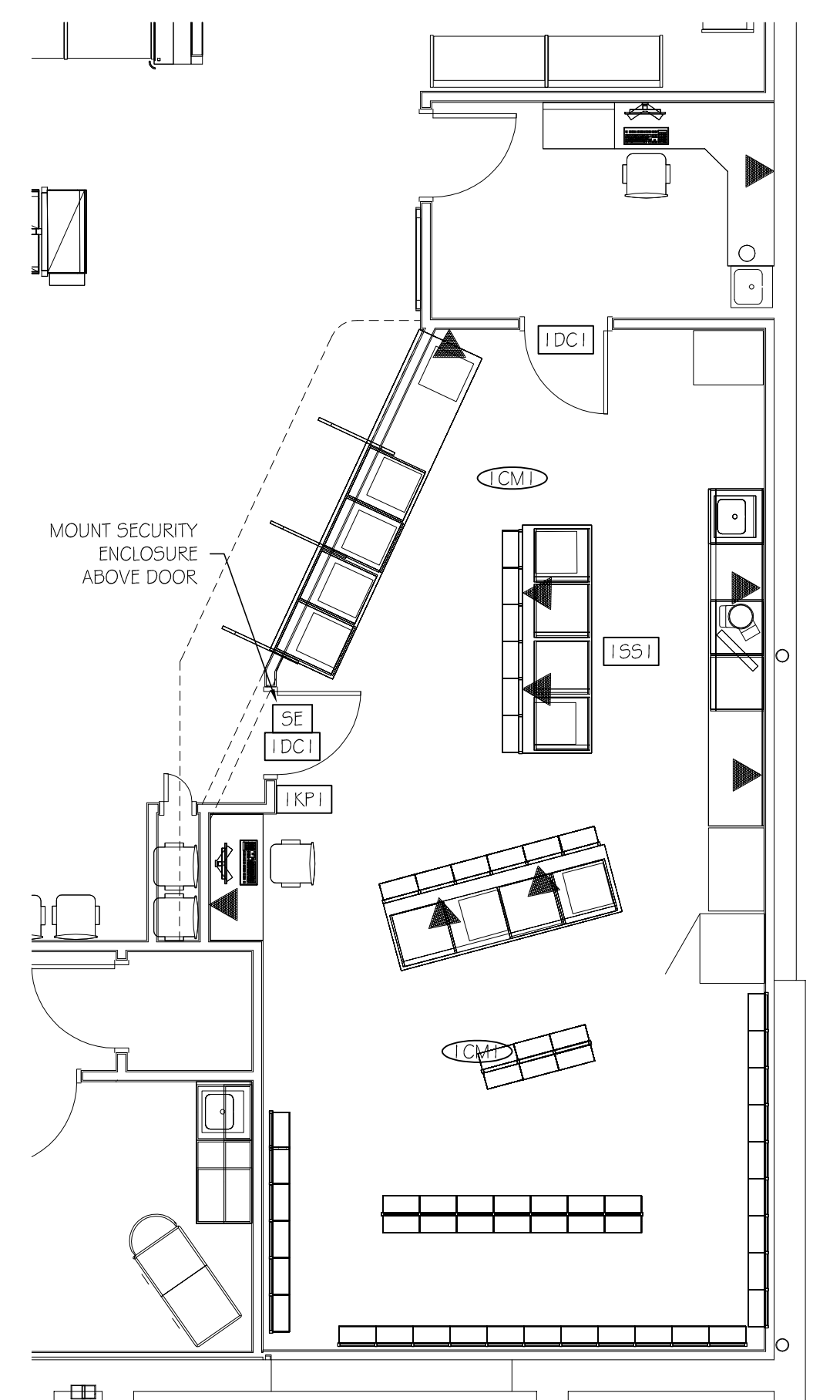


3 DOOR SECURITY DOOR ELEVATION - DOUBLE DOOR  
SCALE: 1/2" = 1'-0"



2 DOOR SECURITY DOOR ELEVATION - SINGLE DOOR W&S  
SCALE: 1/2" = 1'-0"

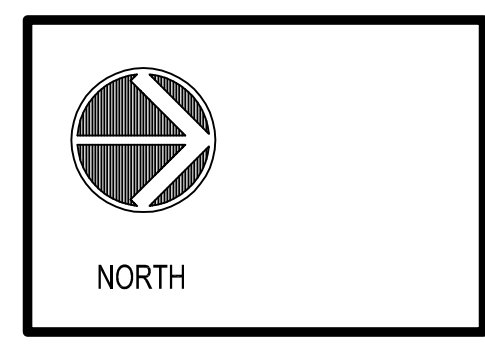
SECURITY SYSTEM CABLING REQUIREMENTS	
CA	ACCESS DOOR TO INCLUDE CARD READER - 1 8/6 SHIELD CABLE REQUEST TO EXIT MOTION - 22/6 CABLE DOOR CONTACTOR - BLUE BROWN CONDUCTORS ON RED MOTION CABLE ELECTRIC DOOR STRIKE - 1 8/4 CABLE
DA	SECURITY LOCAL DOOR ALARM 1 DOOR CONTACT - RED BLACK CONDUCTORS ON SIREN CABLE 1 SIREN - 1 8/4 CABLE 1 KEYPAD - 1 8/6 CABLE
CR	ACCESS CONTROL CARD READER - 1 8/6 SHIELD CABLE
REX	ACCESS CONTROL REQUEST TO EXIT MOTION - 22/6 CABLE
MD	MOTION DETECTOR - 22/4 CABLE
SMD	SECURITY MOTION DETECTOR - 22/6 CABLE
COM	INTERCOM - CAT 6 CABLE
SE	SECURITY EQUIPMENT ENCLOSURE (1 1 x 1 5x4)
CM	CEILING MOUNTED SECURITY MOTION DETECTOR - 22/4 CABLE
EDH	ELECTRIC DOOR HARDWARE - 1 8/4 CABLE
DC	DOOR CONTACTOR - 22/4 CABLE
KP	KEYPAD - 22/6 CABLE @ +60\"
GB	GLASS BREAK - 22/4 CABLE
SS	SECURITY SIREN - 1 8/2 CABLE



1 ENLARGED PHARMACY SECURITY PLAN  
SCALE: 3/16" = 1'-0"



LOCATION: LEES SUMMIT #2, MO  
HY-VEE, INC.  
5820 WESTOWN PARKWAY  
WEST DES MOINES, IOWA 50266  
TEL: (515) 267-2800  
FAX: (515) 267-2835  
EMPLOYEE OWNED



PARTIAL SECURITY PLAN AND DETAILS