SUMMIT LAKES MIDDLE SCHOOL

3500 SW WINDEMERE DR LEE'S SUMMIT, MO 64082

INTERCOMMUNICATION SYSTEM SPECIFICATION 275123 WIRELESS CLOCK SYSTEM SPECIFICATION 275313

CABLE AND CONDUIT SEPARATION DETAIL							
WIRE TYPE GROUPING							
GROUP A	MICROPHONES AND OTHER SENSITIVE WIRING (0 mV TO 100 mV)						
GROUP B	LINE LEVEL WIRING (100 mV TO 10 V)						
GROUP C	LOUDSPEAKER AND CONTROL WIRING (10 V TO 70 V)						
GROUP D	TELEPHONE, VIDEO, CONTROL AND DIGITAL CIRCUITS						
GROUP E	FIBER OPTIC CABLE						

NOTE: THESE WIRING GROUPS MUST NEVER BE INTERMIXED WITHIN A GIVEN CONDUIT RUN.

MINIMUM CONDUIT SEPARATION BETWEEN GROUP TYPES										
	GROUP A	GROUP B	GROUP C	GROUP D	GROUP E					
GROUP A	ADJACENT	6"	12"	12"	ADJACENT					
GROUP B	-	ADJACENT	12"	6"	ADJACENT					
GROUP C	-	-	ADJACENT	6"	ADJACENT					
GROUP D	-	-	-	ADJACENT	ADJACENT					
GROUP E	-	-	-	-	ADJACENT					

NOTE: NINETY DEGREE CROSSING IN CLOSE PROXIMITY ARE ACCEPTABLE

MINIMUM CONDUIT SEPARATION BETWEEN SYSTEMS WIRING AND OTHER SERVICES								
	GROUP A	GROUP B	GROUP C	GROUP D	GROUP E			
DIMMER CONTROLLED LIGHTING	24"	12"	6"	12"	ADJACENT			
SCR CONTROLLED SERVICES	24"	12"	6"	12"	ADJACENT			
220/440V CIRCUITS	6"	6"	ADJACENT	ADJACENT	ADJACENT			
ALL OTHER SERVICES	6"	6"	ADJACENT	ADJACENT	ADJACENT			

	INTERCOM SYSTEM CABLE LEGEND									
LEGEND	USAGE	TECH #	DESCRIPTION							
D	DATA / CONTROL	CAT6P-GR N	CATEGORY 6 CABLE, PLENUM							
L	LINE LEVEL	22-02SP- BLK	1 PR 22 AWG, STRANDED, SHIELDED, PLENUM							
S22	SPEAKER LEVEL	22-02SP- BLK	1 PR 22 AWG, STRANDED, PLENUM							

	INTERCOM SYSTEM DEVICE SCHEDULE										
SYMBOL	DESCRIPTION	MANUFACTURER	PART NO.	ROUGH-IN DESCRIPTION							
AMP	25V SPEAKER AMPLIFIER	CAREHAWK	DAF-100-25	SURFACE MOUNT TO WALL. PROVIDE 120VAC POWER.							
AP1-#	ADMINISTRATIVE PHONE	CAREHAWK	ADMIN7	SITS ON DESKTOP							
-©	SINGLE SIDED, 12', ANALOG WALL CLOCK	SAPLING	SAL-4BS-12R-0	SURFACE MOUNT TO WALL							
CK_ MST	WIRELESS MASTER CLOCK TRANSMITTER	SAPLING	SMA-2S0-1000- 1	SURFACE MOUNT TO WALL, PROVIDE 120VAC POWER AND NETWORK CONNECTION							
6	DOUBLE DIAL, DIGITAL WALL CLOCK.	SAPLING	SBL-31S-254-4 R	SURFACE MOUNT TO DOUBLE GANG BACK BOX WITH DOUBLE SIDED BRACKET SAB-1BD-00S-0							
IC HE	INTERCOM SERVER	CAREHAWK	CH2000IP	MOUNT IN CUSTOMER DATA RACK							
MATC	TOUCH SCREEN COMPUTER	CAREHAWK	MATC	SITS ON DESKTOP, PROVIDE 120VAC POWER							
PS	DIGITAL CLOCK POWER SUPPLY	SAPLING	35-M015	POWER TRANSFORMER, SURFACE MOUNT TO WALL. PROVIDE 120VAC POWER AND CABLE PATH TO CLOCKS AS SHOWN							
(S1)	ROUND CEILING SPEAKER	QUAM	SOLUTION1	MOUNTS IN ATC OR DRYWALL CEILING WIHT HARDWARE PROVIDED. PROVIDE CABLE PATHS AS SHOWN.							
(S2)	LAY-IN TIME CEILING SPEAKER	QUAM	SYSTEM 12VC	LAY IN ACT GRID IN PLACE OF TILE. PROVIDE CABLE PATHS AS SHOWN							
S3	WALL MOUNT SPEAKER	QUAM	SYSTME 3	SURFACE MOUNT TO WALL. PROVIDE CABLE PATH AS SHOWN							
S4 <	HORN TYPE SPEAKER	QUAM	QH16T	SURFACE MOUNT TO WALL AND INSTALL WIRE GUARD OVER DEVICE. PROVIDE CABLE PATH AS SHOWN							
SS32IP-#	SECURITY SWITCHING MODULE	CAREHAWK	SS32IP	SURFACE MOUNT TO WALL, PROVIDE 120VAC POWER AND CABLE PATHS AS SHOWN							

AFG	ABOVE FINISHED GRADE
AWG	AMERICAN WIRE GAUGE
BFC	BELOW FINISHED CEILING
¢	CENTER LINE
DEMARC	TRANSITION POINT; OUTSIDE SERVICES & BUILDING SYSTEM
EC	ELECTRICAL CONTRACTOR
EF	ENTRANCE FACILITY (SEE DEMARC)
EFEI	ELECTRICAL FURNISHED ELECTRICAL INSTALLED
EIA	ELECTRONIC INDUSTRIES ALLIANCE
EOL	END OF LINE
EOR	ENGINEER OF RECORD
ER/MDF	EQUIPMENT ROOM / MAIN DATA FRAME CLOSET
EX	EXISTING
FACU	FIRE ALARM CONTROL UNIT
FBO	FURNISHED BY OTHERS
GC	GENERAL CONTRACTOR
GUI	GRAPHICAL USER INTERFACE
HR	HOMERUN
LAN	LOCAL AREA NETWORK
NIC	NOT IN CONTRACT
OFCI	OWNER FURNISHED, CONTRACTOR INSTALLED
OFE	OWNER FURNISHED EQUIPMENT
OFOI	OWNER FURNISHED, OWNER INSTALLED
RCP	REFLECTED CEILING PLAN
RFI	REQUEST FOR INFORMATION
RU	RACK UNIT
Rx	RECEIVER
TBD	TO BE DETERMINED
TFEI	TECH FURNISHED, ELECTRICAL INSTALLED
TIA	TELECOMMUNICATIONS INDUSTRY ASSOCIATION
TR/IDF	TELCOM ROOM/ INTERMEDIATE DATA FRAME CLOSET
Tx	TRANSMITTER
	+
TYP	TYPICAL

ABBREVIATIONS

DEFINITION

ACOUSTIC CEILING TILE

ACCESS CONTROL PANEL

AMERICAN DISABILITY ACT

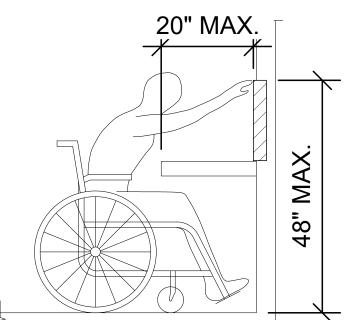
ABOVE FINISHED CEILING

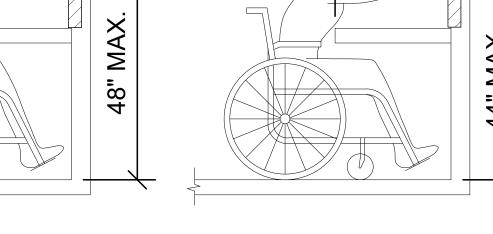
ABOVE FINISHED FLOOR

ABOVE FINISHED COUNTERTOP

\(\sum xxxx \)	CONNECTOR ABBREVIATION LEGEND - NOT ALL USED -
NOTE	DESIGNATION
EC45	NEUTRIK RUGGED RJ45 DATA ETHERCON TYPE, 8-PIN, SHIELDED, TYPICAL TIA-568B UNO
PHX	PHOENIX TYPE, TYPICAL 3-PIN, ADD SUFFIX WITH QTY OF PINS AS REQUIRED
РВ	PUNCH BLOCK TYPE, TYPICAL 66BLOCK, ADD SUFFIX K-KRONE
PWR	LOW VOLTAGE POWER CONNECTION (TYPICALLY 12/24VDC), REFERENCE DETAILS FOR MORE INFORMATION
RJ45	RJ45 DATA TYPE, 8-PIN, TYPICAL TIA-568B UNO, ADD SUFFIX (S) FOR SHIELDED VERSION
TERM	TERMINAL BLOCK SCREW TYPE OR LARGE PHX TYPE CONNECTION
120V	TYPICAL 120VAC POWER CONNECTION, NOTED FOR REFERENCE ONLY, ALL TERMINATION TO 120VAC P.B.O. (ELECTRICAL CONTRACTOR)

SHEET INDEX							
SHEET NUMBER	DESCRIPTION						
IC0.00	COVER SHEET						
IC1.01A	MAIN LEVEL AREA A						
IC1.01B	MAIN LEVEL AREA B						
IC1.01C	MAIN LEVEL AREA C						
IC1.01D	MAIN LEVEL AREA D						
IC1.01E	MAIN LEVEL AREA E						
IC1.01F	MAIN LEVEL AREA F						
IC1.01G	MAIN LEVEL AREA G						
IC2.00	SCHEMATIC DIAGRAM						
IC2.01	SPEAKER WATTAGE CALCULATIONS						
IC3.10	TYPICAL CONNECTOR DIAGRAMS						
IC4.00	MOUNTING AND CONNECTION DETAILS						



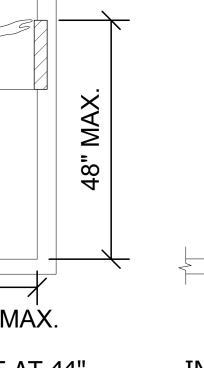


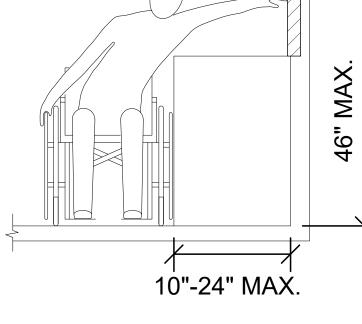
ADA (AMERICAN DISABILITES ACT) GUIDELINES - FRONT ACCESS

INSTALL ABOVE COUNTER DEVICE AT 44" ABOVE INSTALL ABOVE COUNTER DEVICE AT 40" ABOVE FINISHED FLOOR. FINISHED FLOOR.

INSTALL DEVICE AT 18" ABOVE FINISHED FLOOR.

INSTALL DEVICE AT 44" ABOVE FINISHED FLOOR.





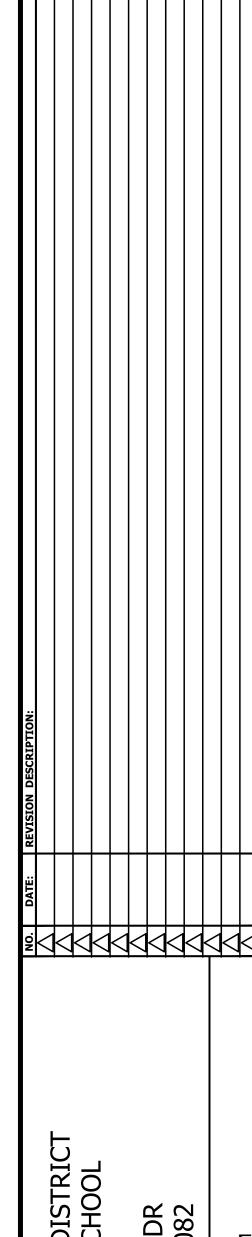
INSTALL DEVICE AT 42" ABOVE FINISHED FLOOR.

ADA GUIDELINES - SIDE ACCESS







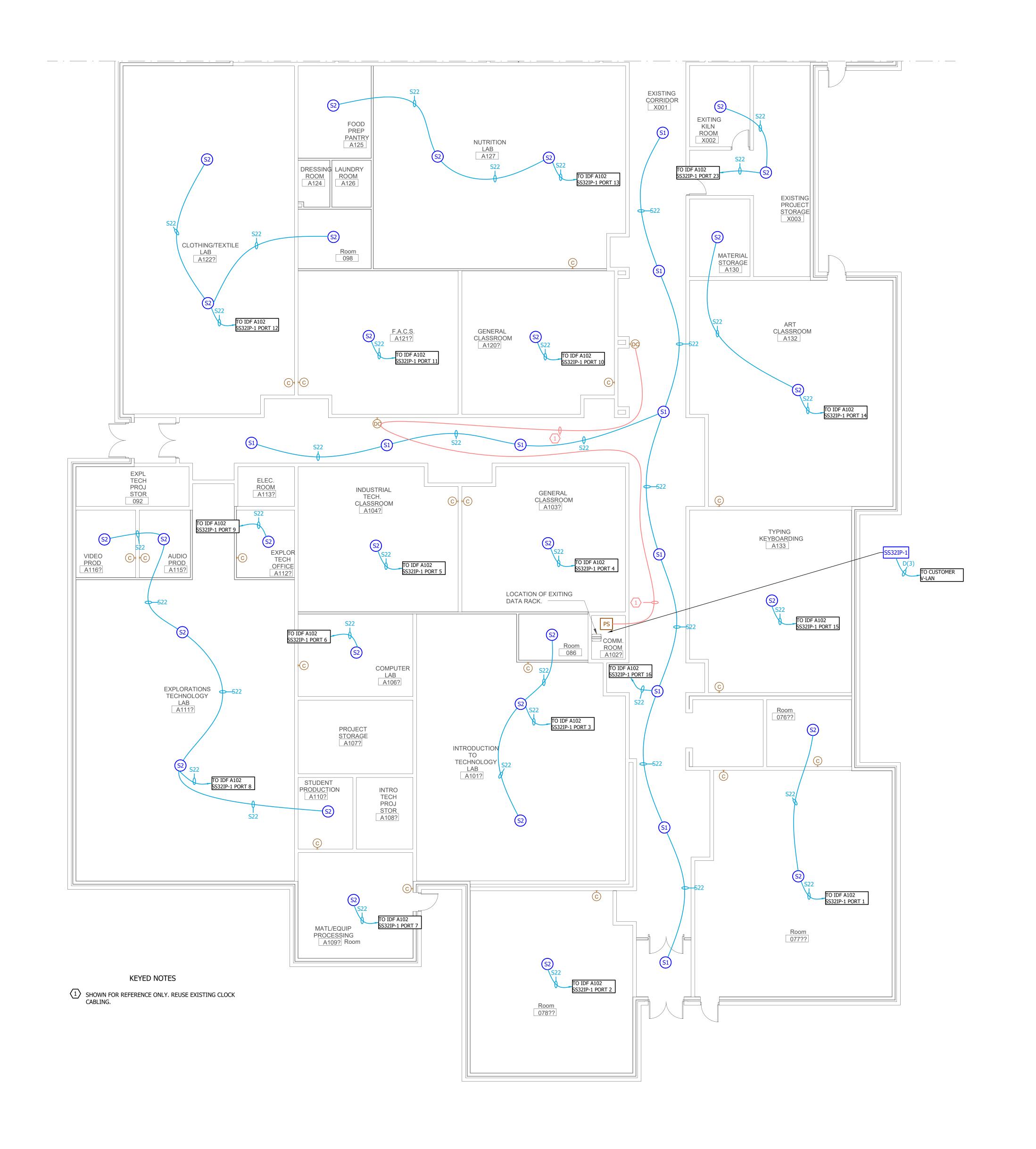


TON: E'S SUMMIT R-7 SCHOOL DISTRICT SUMMIT LAKES MIDDLE SCHOOL

ROJECT MANAGER:
BEN MCVAY
314-705-0128
ESIGNER: DRAFTER: DESIGNER: DRAFTER:
CHRIS WEHRMAN CHRIS WEHRMAN

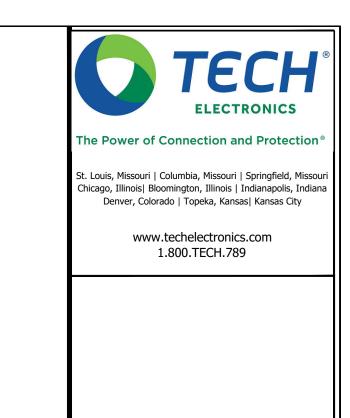
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IC - MAIN LEVEL PLAN - AREA A

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

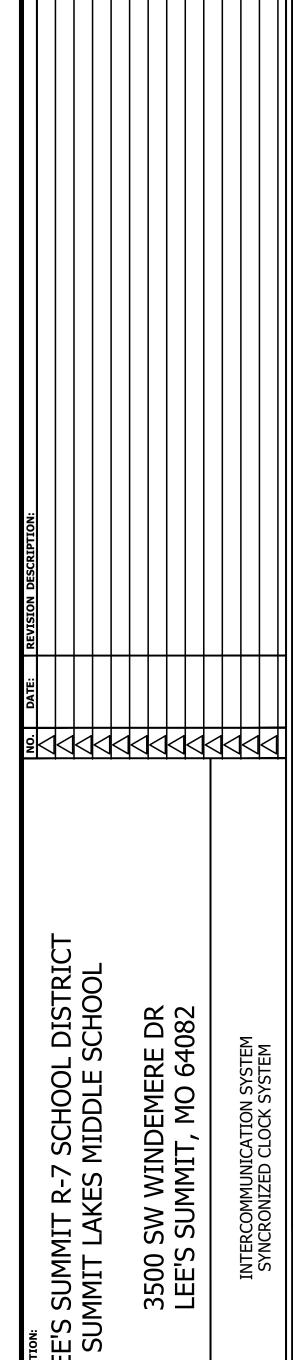


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DARIN T.
SEIDEL
NUMBER





PROJECT MANAGER:
BEN MCVAY
314-705-0128
DESIGNER:
CHRIS WEHRMAN
CHRIS WEHRMAN

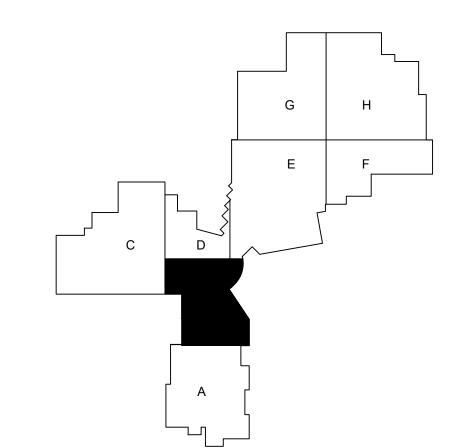
IC1.01A

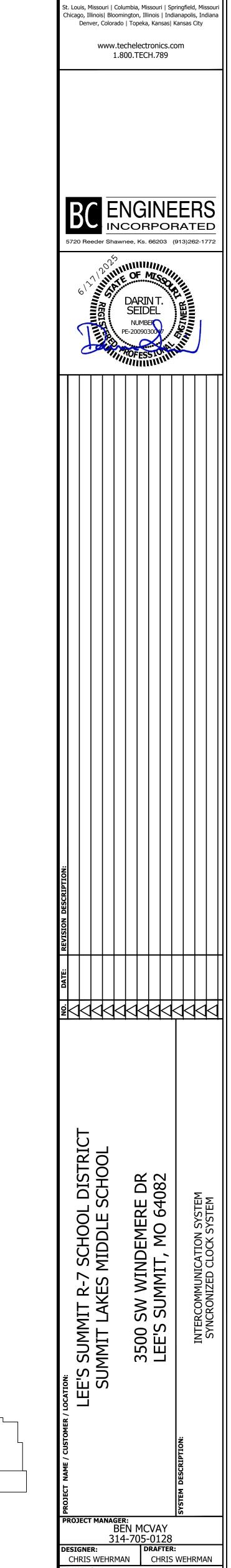
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PROJECT PJ2503280014

IC - MAIN LEVEL PLAN - AREA B

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

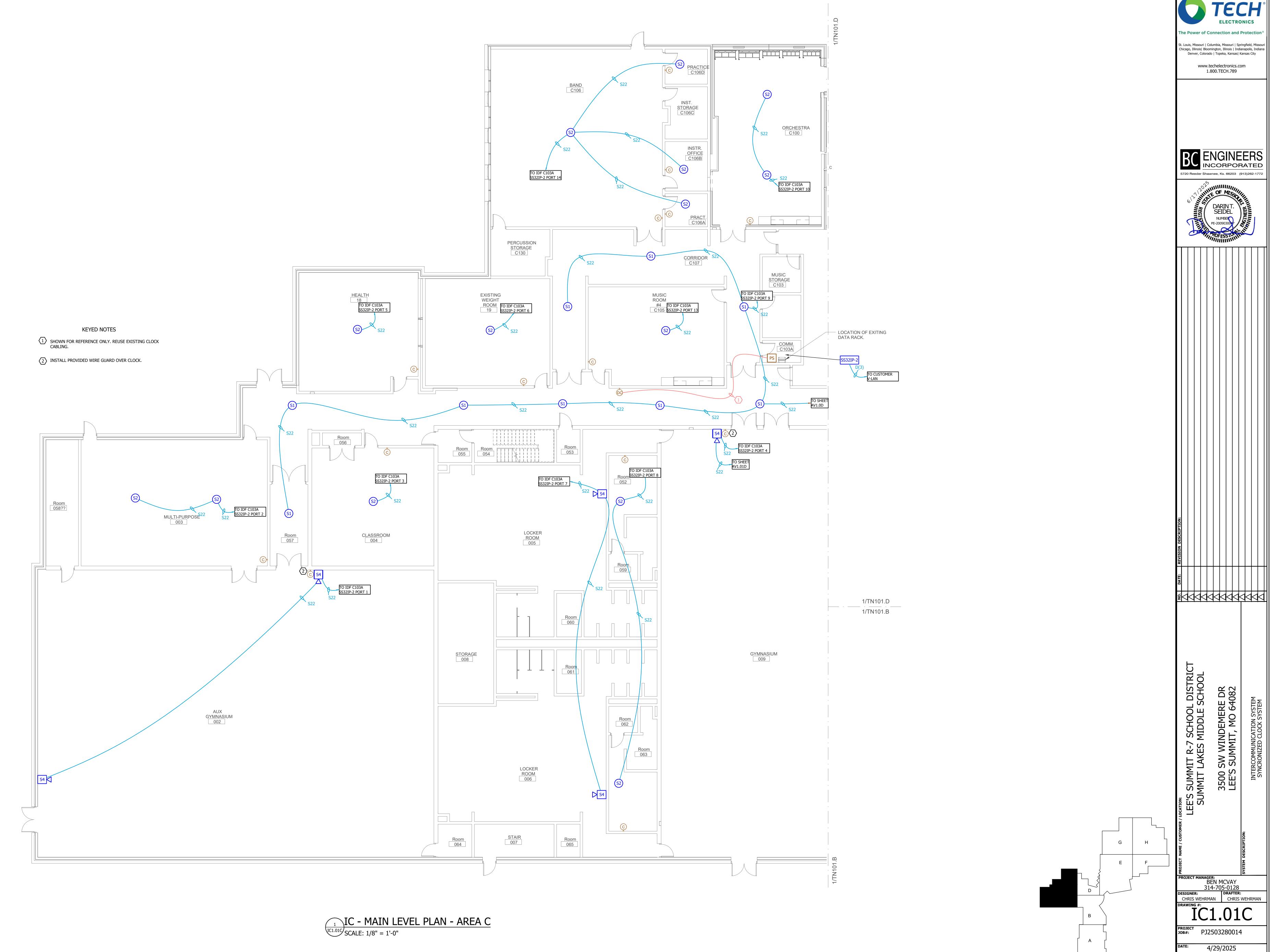




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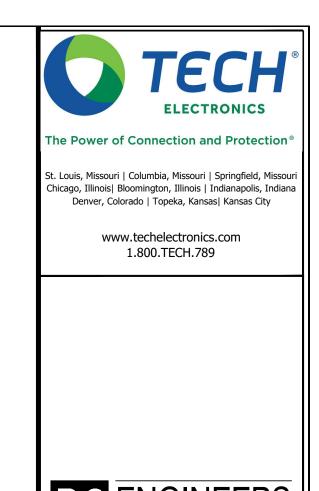
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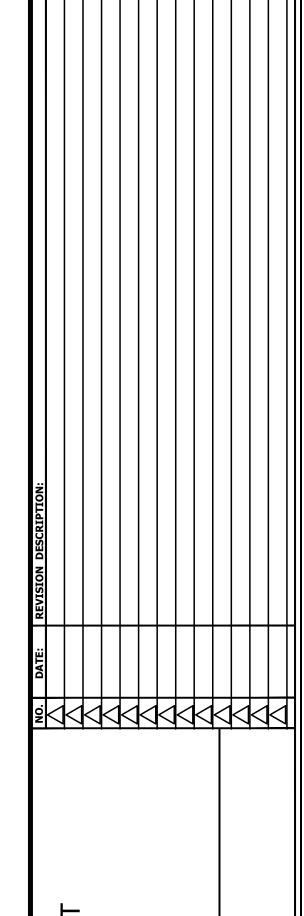
IC - MAIN LEVEL PLAN - AREA D

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









LEE'S SUMMIT R-7 SCHOOL DISTRICT
SUMMIT LAKES MIDDLE SCHOOL
3500 SW WINDEMERE DR
LEE'S SUMMIT, MO 64082

PROJECT MANAGER:
BEN MCVAY
314-705-0128

DESIGNER:
CHRIS WEHRMAN
CHRIS WEHRMAN
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PROJECT JOB#: PJ2503280014

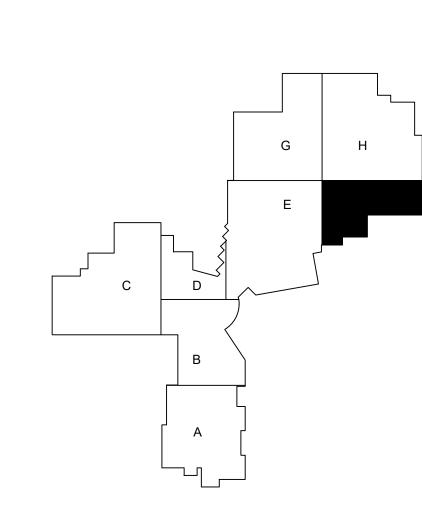
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IC - MAIN LEVEL PLAN - AREA F

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



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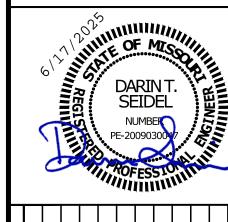
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NO. DATE: REVISION DESCRIPTION:										
SUMMIT R-7 SCHOOL DISTRICT AMIT LAKES MIDDLE SCHOOL						3500 SW WINDEMEKE DK	COUNTY WO GANOS	-LL 3 301/11/11/11/10 04/062		INTERCOMMUNICATION SYSTEM

LEE'S SUMMIT R-7 SCHOOL DIST

LEE'S SUMMIT R-7 SCHOOL DIST

LEE'S SUMMIT R-7 SCHOOL DIST

SUMMIT LAKES MIDDLE SCHO

SUMMIT MO 64082

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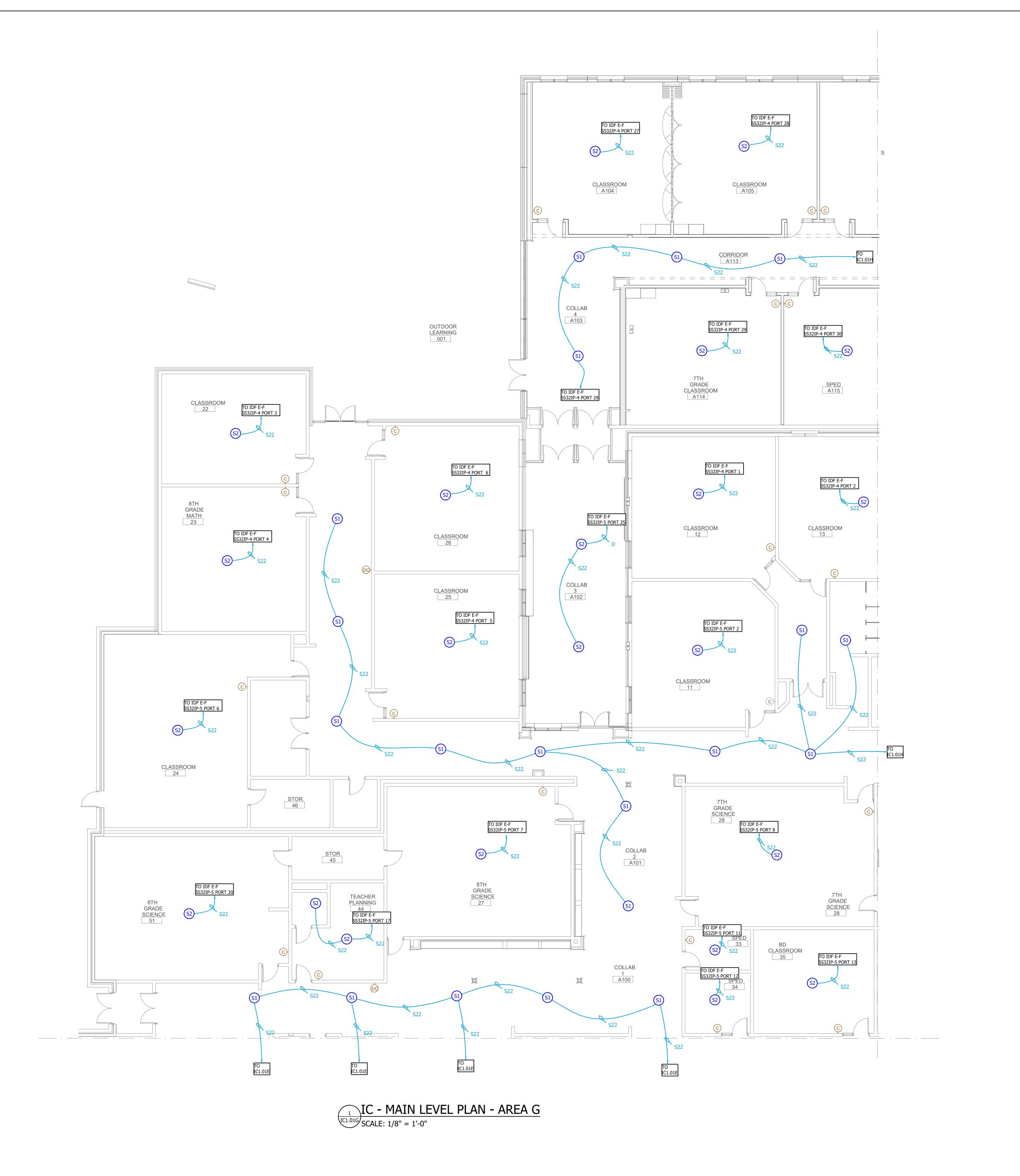
LEE'S SUMMIT, MO 64082

A (759/2052)

INTERCOMMUNICATION SYSTEM

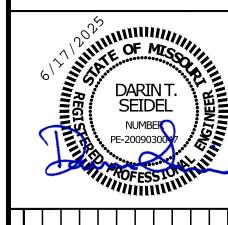
SYNCRONIZED CLOCK SYSTEM

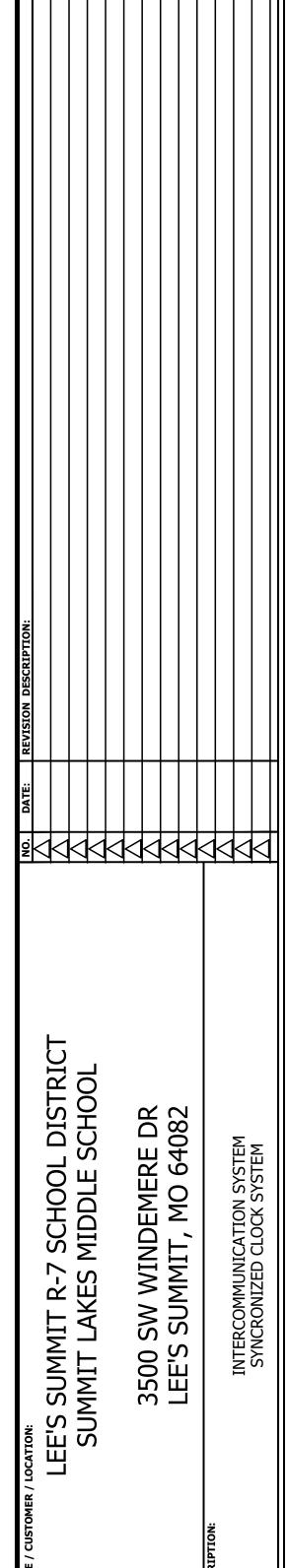
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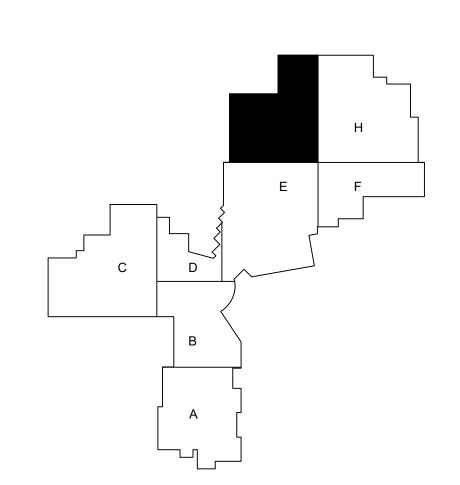
PROJECT MANAGER:
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DESIGNER:
CHRIS WEHRMAN
CHRIS WEHRMAN

IC1.01G

4/29/2025

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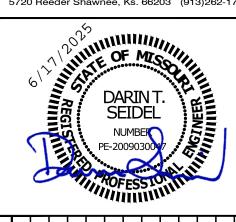
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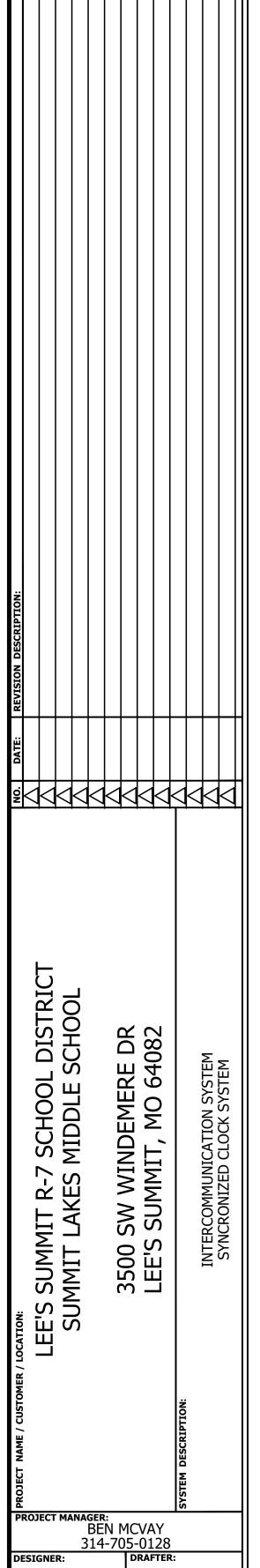








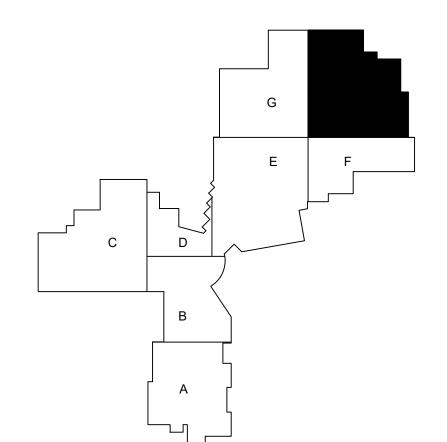


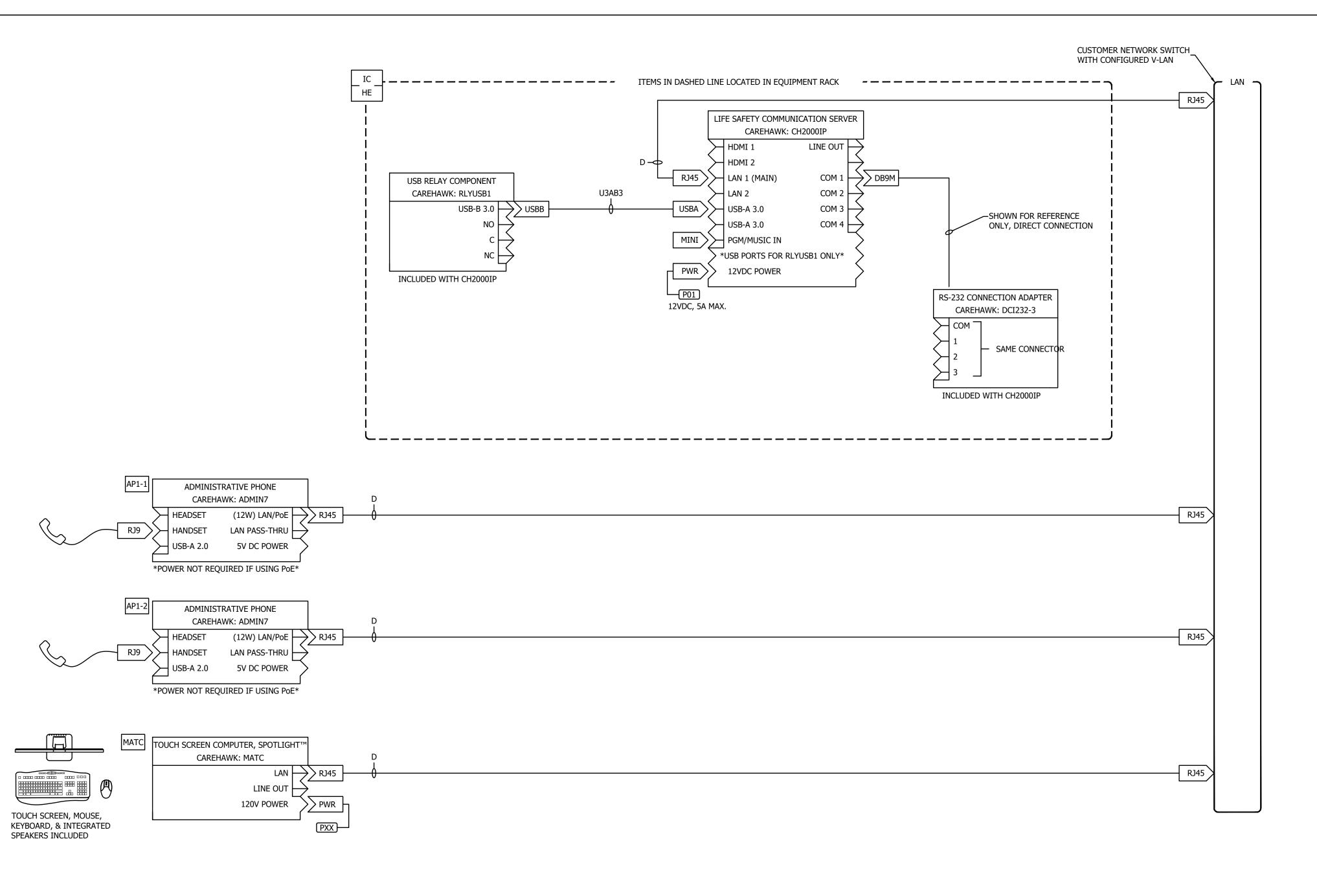


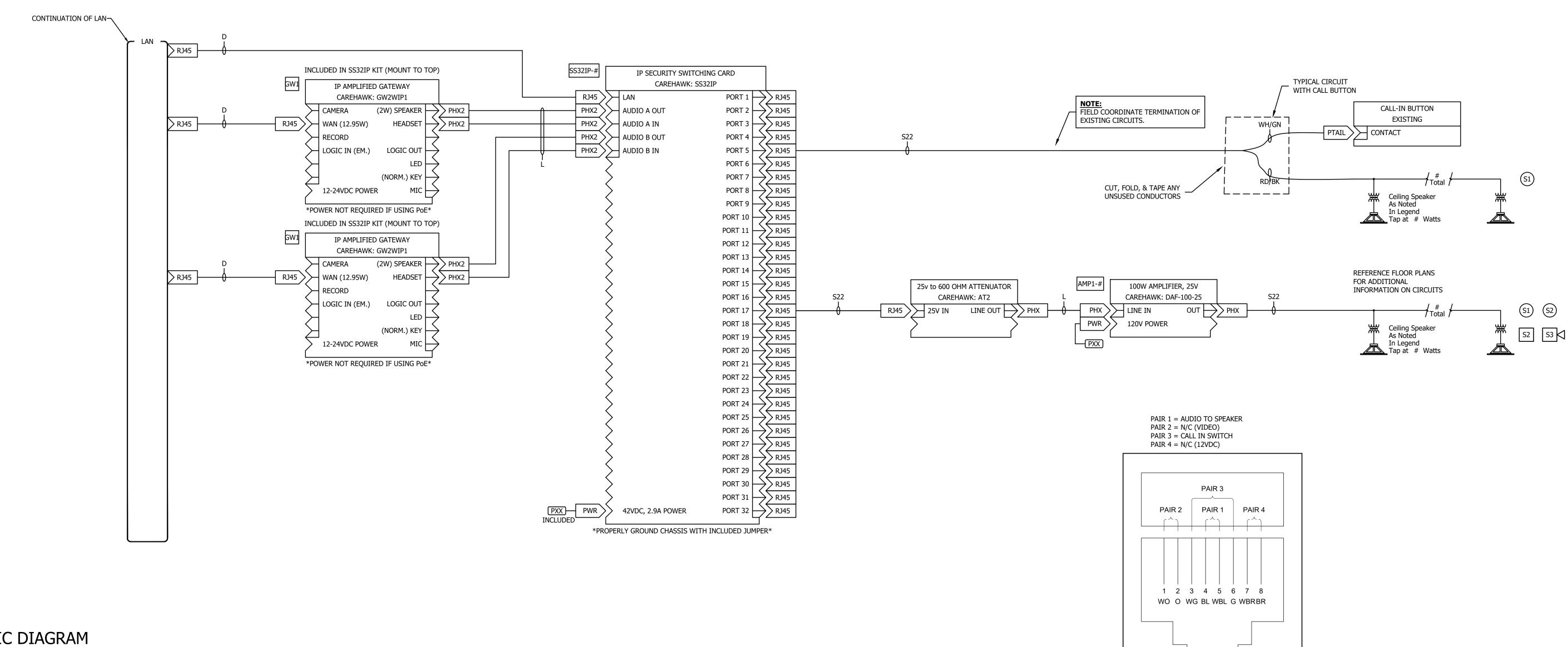
DESIGNER:CHRIS WEHRMAN
CHRIS WEHRMAN

PROJECT PJ2503280014

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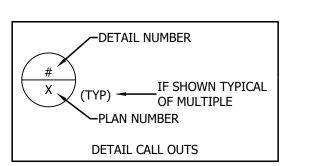
INTERCOM SYSTEM SCHEMATIC DIAGRAM

SCALE: NONE

AUDIO VIDEO SCHEMATIC SIGNAL CONNECTOR LEGEND

PAGE # To:DEVICE ID OUTPUT # To:DEVICE ID INPUT # To:DEVICE ID INPU

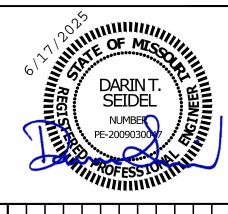
SS32IP MODULE OUTPUT PORT WIRING

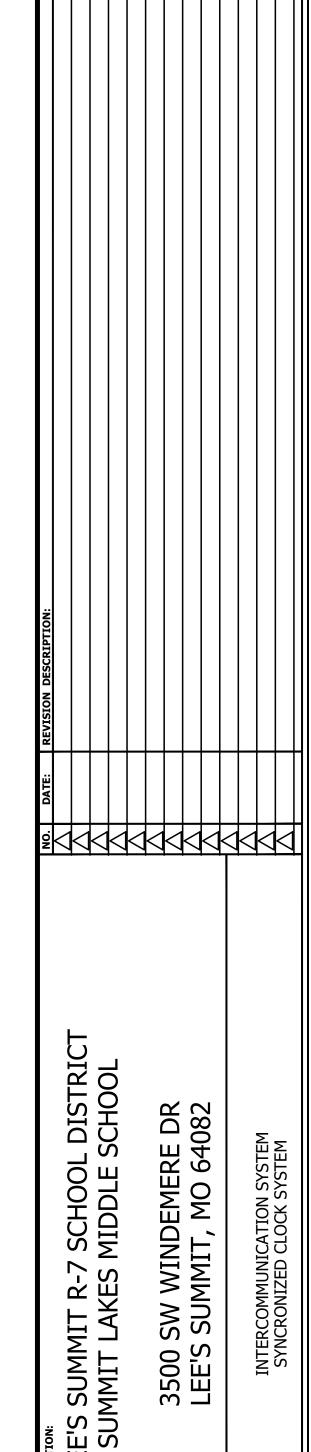




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PROJECT MANAGER:
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DESIGNER:
DRAFTER:

CHRIS WEHRMAN CHRIS WEHRMAN

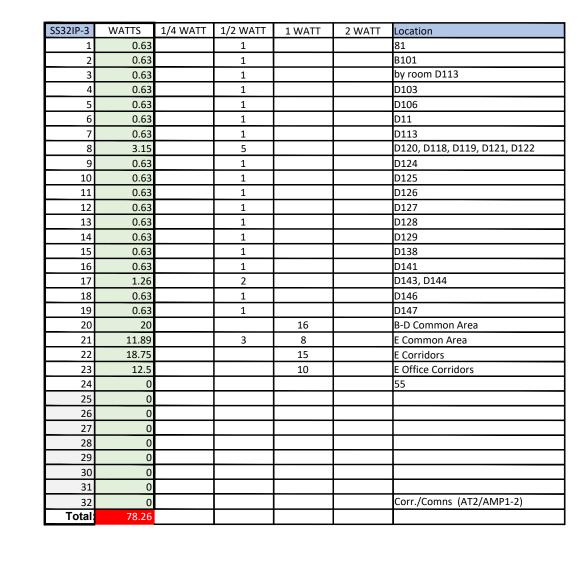
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					·	
SS32IP-1	WATTS	1/4 WATT	1/2 WATT	1 WATT	2 WATT	Location
1	1.26		2			A077, A076
2	0.63		1			A078
3	1.89		3			A101, A086
4	0.63		1			A103
5	0.63		1			A104
6	0.63		1			A106
7	0.63		1			A109
8	3.15		5			A111, A110, A115, A116
9	0.63		1			A112
10	0.63		1			A120
11	0.63		1			A121
12	1.89		3			A122, A098
13	1.89		3			A127, A125
14	1.26		2			A132, A130
15	0.63		1			A133
16	12.5			10		A Corridors
17	0.63		1			B101
18	1.26		2			B104
19	4.38		1	3		B107
20	0.63		1			B111
21	0.63		1			B117
22	0.63		1			B118
23	1.26		2			x003, x002
24	7.5			6		B Corridors
25	0					
26	0					
27	0					
28	0					
29	0					
30	0					
31	0					
32	0					
Total	46.43					
						I.

SS32IP-2	WATTS	1/4 WATT	1/2 WATT	1 WATT	2 WATT	Location
1	2.5			2		002
2	1.26		2			003
3	0.63		1			004
4	2.5			2		009
5	0.63		1			18
6	0.63		1			19
7	1.26		2			005, 006
8	1.26		2			52, 63
9	12.5			10		C Corridors
10	1.26		2			C100
11	0.63		1			C101
12	1.26		2			C104, C102
13	0.63		1			C105
14	3.14		3	1		C106, C106A, C106B, C106D
15	0					
16	0					
17	0					
18	0					
19	0					
20	0					
21	0					
22	0					
23	0					
24	0					
25	0					
26	0					
27	0					
28	0					
29	0					
30	0					
31	0					
32	0					
Total:	30.09					



SS32IP-1 PORT LIST (IDF ROOM A102)

SCALE: NONE

SS32IP-2 PORT LIST (IDF ROOM C103A)
SCALE: NONE

SS32IP-3 PORT LIST (MDF ROOM D142A)

IC2.01 SCALE: NONE

SS32IP-4	WATTS	1/4 WATT	1/2 WATT	1 WATT	2 WATT	Location
1	0.63		1			12
2	0.63		1			13
3	0.63		1			22
4	0.63		1			23
5	0.63		1			25
6	0.63		1			26
7	0.63		1			31
8	0.63		1			39
9	0.63		1			40
10	0.63		1			42
11	0.63		1			49
12	0.63		1			50
13	0.63		1			52
14	0.63		1			53
15	0.63		1			54
16	0.63		1			75
17	1.26		2			56
18	0.63		1			57
19	0.63		1			58
20	0.63		1			59
21	0.63		1			60
22	0.63		1			61
23	0.63		1			64
24	0.63		1			65
25	0.63		1			78
26	0.63		1			79
27	0.63		1			A104
28	0.63		1			A105
29	0.63		1			A114
30	0.63		1			A115
31	1.26		2			D153, D152
32	0					Corr./Comns (AT2/AMP)
Total	20.79					

SS32IP-4 PORT LIST (IDF ROOM E-F)

SCALE: NONE

SS32IP-5 PORT LIST (IDF ROOM E-F)

IC2.01 SCALE: NONE

AUDIO VIDEO SCHEMATIC SIGNAL CONNECTOR LEGEND

Fm:DEVICE ID OUTPUT #
To:DEVICE ID INPUT #
To:DEVICE ID OUTPUT #
To:DEVICE ID INPUT #
To:DEVICE ID OUTPUT #
To:DEVICE ID INPUT #
To:DEVICE ID I

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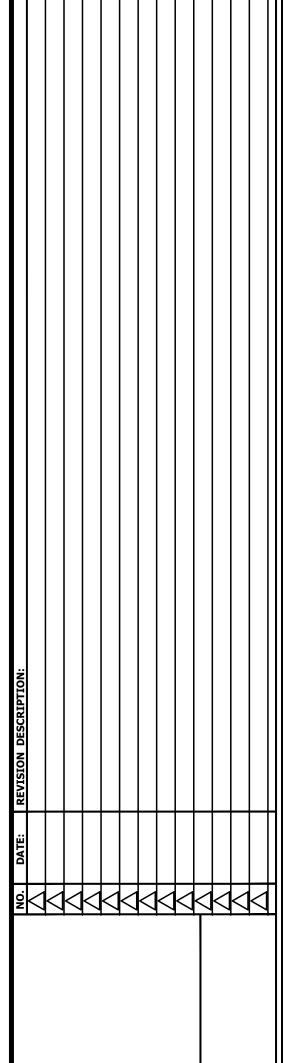
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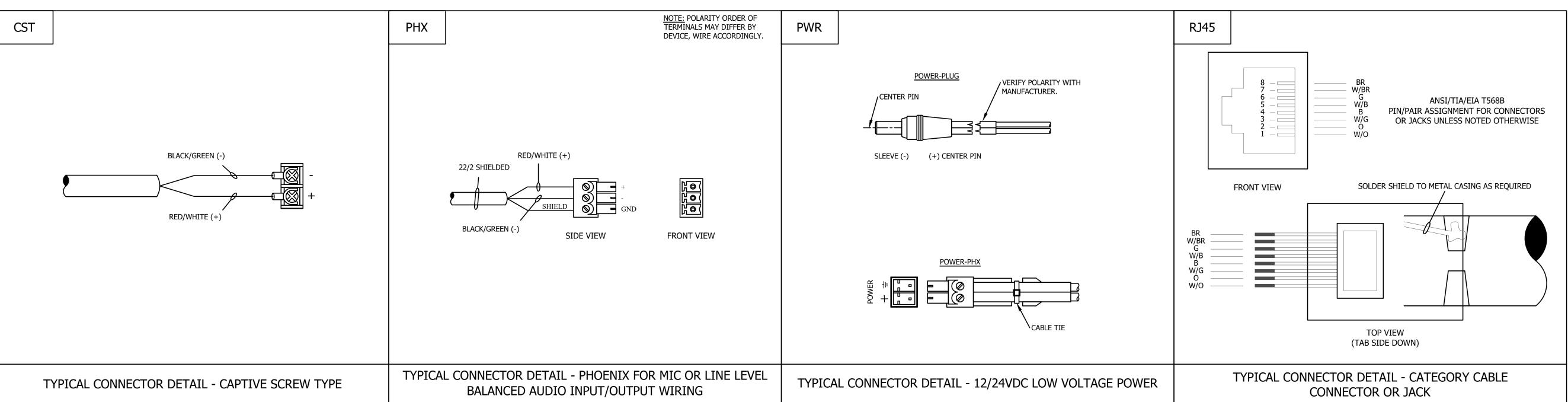
LEE'S SUMMIT R-7 SCHOOL DISTRICT SUMMIT LAKES MIDDLE SCHOOL

PROJECT MANAGER:
BEN MCVAY
314-705-0128
DESIGNER:
CHRIS WEHRMAN
CHRIS WEHRMAN

4/29/2025

APPROVAL

PROJECT PJ2503280014



GENERAL CONNECTION NOTES:

- 1. VERIFY PIN OUT ON ALL EQUIPMENT.
- 2. CONNECTION DETAILS PROVIDED BELOW ARE TYPICAL AND MUST BE
- DO NOT ALTER MANUFACTURER RECOMMENDATION.
 UTILIZE MANUFACTURER MANUALS FOR SPECIFIC CONNECTION DETAILS.

XXXX	CONNECTOR ABBREVIATION LEGEND - NOT ALL USED -
NOTE	DESIGNATION
BNC	BNC TYPE, TYPICAL ONE CONNECTOR UNO, ADD SUFFIX WITH # OF CONNECTORS
CST	CAPTIVE SCREW TYPE
DIN#	DIN TYPE, #=QTY OF PINS, TYPICAL 4,6,8
D#*	D-SUB TYPE, #=QTY OF PINS, TYPICAL 9,15,25, *=TYPE: M-MALE, F-FEMALE
DMC	CRESTRON DM-CAT [D/M/NET]
DP	DISPLAY PORT, TYPICAL STANDARD UNO, ADD SUFFIX *=TYPE: I-MINI
DVI*#	DVI TYPE, *=TYPE: A-ANALOG, D-DIGITAL, I-INTEGRATED, #=LINK TYPE: S-SINGLE, D-DUAL
E3	ELCO 3-PIN TYPE [AUDIO PATCH PANEL]
EC45	NEUTRIK RUGGED RJ45 DATA ETHERCON TYPE, 8-PIN, SHIELDED, TYPICAL TIA-568B UNO
F	"F" TYPE COAXIAL CONNECTOR
-FBO-	UNKNOWN CONNECTOR TYPE, FURNISHED BY OTHERS
HDMI	HIGH DEFINITION MULTIMEDIA INTERFACE TYPE, TYPICAL STANDARD MALE UNO, ADD SUFFIX F-FEMALE, *=TYPE: M-MICRO, I-MINI
IR	INFRARED EMITTER "BUG"
IDC	INSULATION DISPLACMENT (PUNCHDOWN)
MINI	1/8" [3.5MM] MINI TIP, RING SLEEVE PHONO TYPE, TYPICAL MALE UNO, ADD SUFFIX F-FEMALE
NL#	NEUTRIK SPEAKON TYPE CONNECTOR, #=QTY OF POLES, *=TYPE: M-MALE, F-FEMALE
OC*#	NEUTRIK OPTICON RUGGED FIBER, *=TYPE: M-MALE, F-FEMALE, #=QTY OF FIBER
PASS	PASS-THRU (NO CONNECTOR)
PHX	PHOENIX TYPE, TYPICAL 3-PIN, ADD SUFFIX WITH QTY OF PINS AS REQUIRED
PB	PUNCH BLOCK TYPE, TYPICAL 66BLOCK, ADD SUFFIX K-KRONE
PWR	LOW VOLTAGE POWER CONNECTION (TYPICALLY 12/24VDC), REFERENCE DETAILS FOR MORE INFORMATION
RCA	RADIO CORP. OF AMERICA PHONO PLUG, ADD SUFFIX #=QTY OF CONNECTORS TYPE: M-MALE, F-FEMALE
RJ45	RJ45 DATA TYPE, 8-PIN, TYPICAL TIA-568B UNO, ADD SUFFIX (S) FOR SHIELDED VERSION
SDI	SERIAL DIGITAL INTERFACE (BNC TYPE)
SLDR	SOLDERED CONNECTION
TERM	TERMINAL BLOCK SCREW TYPE OR LARGE PHX TYPE CONNECTION
TRS	1/4" TIP, RING, SLEEVE PHONO TYPE, *=TYPE: M-MALE, F-FEMALE
TS	1/4" TIP, SLEEVE PHONE TYPE, *=TYPE: M-MALE, F-FEMALE
XLR	EXTERNAL LINE RETURN [XLR] TYPE, TYPICAL 3-PIN UNO, *=TYPE: M-MALE, F-FEMALE, ADD SUFFIX #=QTY OF PINS
USB	UNIVERSAL SERIAL BUS TYPE CONNECTOR, TYPICAL MALE UNO, ADD SUFFIX F-FEMALE, *=TYPE: A, B, C, M-MICRO, I-MINI, L-LIGHTNING, P-PIGTAIL
120V	TYPICAL 120VAC POWER CONNECTION, NOTED FOR REFERENCE ONLY, ALL TERMINATION TO 120VAC P.B.O. (ELECTRICAL CONTRACTOR)

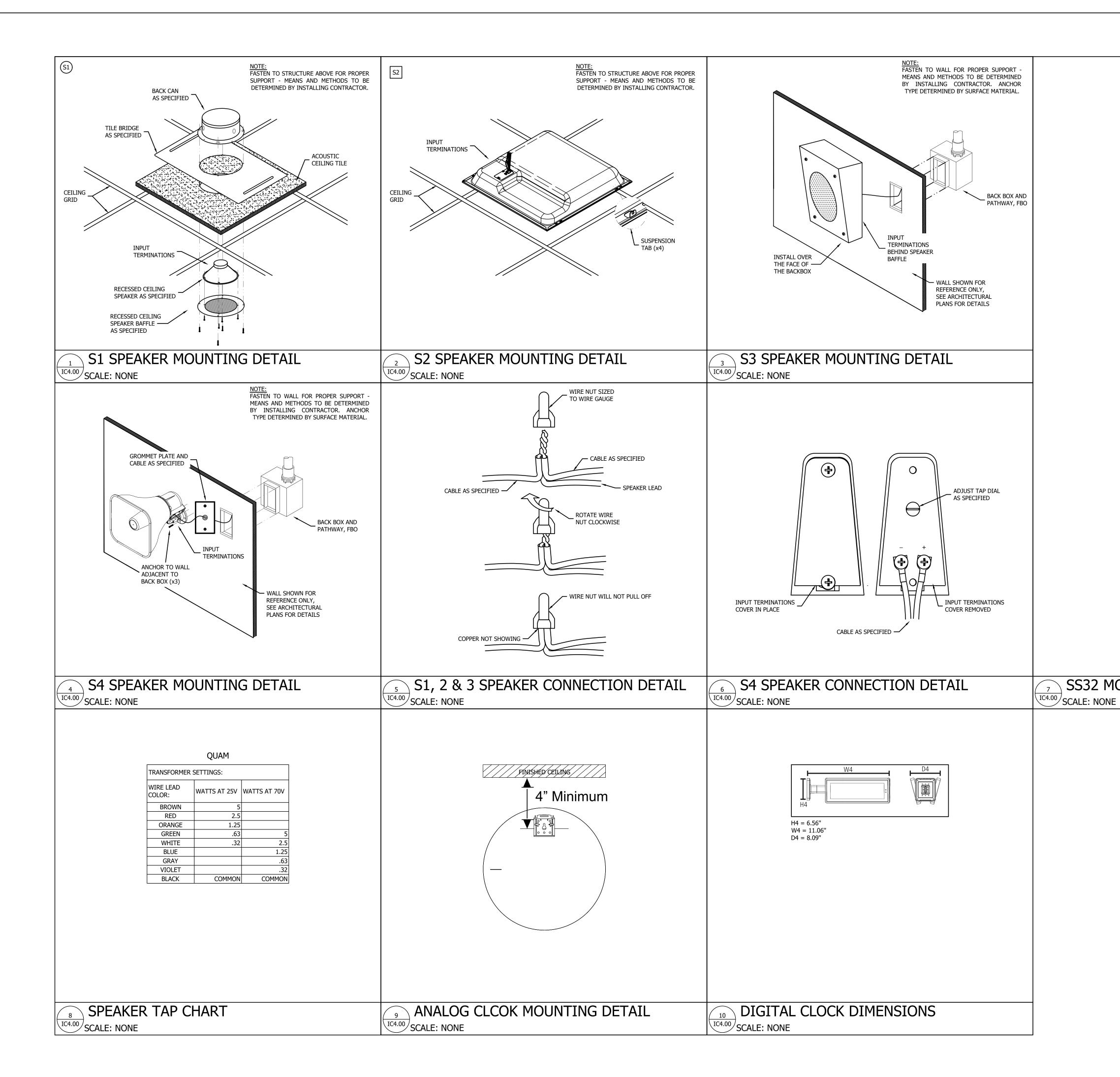


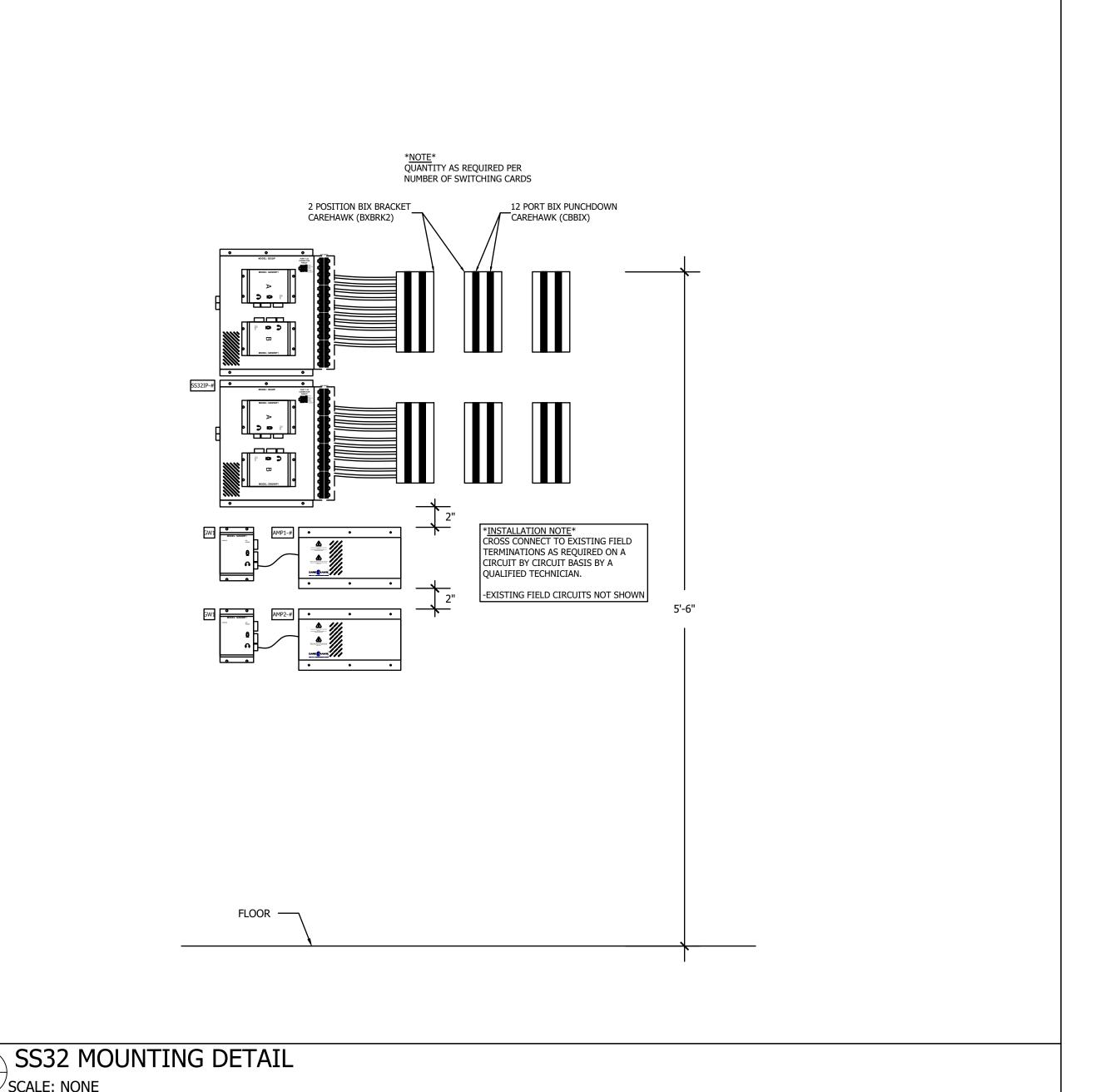
5720 Reeder Shawnee, Ks. 66203 (913)262-1772



PROJECT NAME / CUSTOMER / LOCATION: LEE'S SUMMIT R-7 SCHOOL DISTRICT SUMMIT LAKES MIDDLE SCHOOL STORY WINDEMERE DR LEE'S SUMMIT, MO 64082 SYNCRONIZED CLOCK SYSTEM SYNCRONIZED CLOCK SYSTEM	PROJECT NAME / CUSTOMER / LOCATION: LEE'S SUMMIT R-7 SCHOOL SUMMIT LAKES MIDDLE S SUMMIT LAKES MIDDLE S SUMMIT LAKES MIDDLE S LEE'S SUMMIT, MO 64 SYSTEM DESCRIPTION: INTERCOMMUNICATION SYSTER SYNCRONIZED CLOCK SYSTER	NO. DATE: REVISION DESCRIPTION:										
	DRAWING #:	PR DES	LEE'S SUMMIT R-7 SCHOOL	O II IUUIM OIAVI LIMMIIO	NA (BE 14	:: N 70	1500 SW WINDEMEKE	79 CM LIMMITO DILLI	: R:		

4/29/2025











SION DESCRIPTION:	DATE: REVISION DESCRIPTION:			411	iii	1111	''''	χ-	
SION DESCRIPTION:									

LEE'S SUMMIT R-7 SCHOOL DISTRICT SUMMIT LAKES MIDDLE SCHOOL 3500 SW WINDEMERE DR LEE'S SUMMIT, MO 64082

SYSTEM DESCRIPTION:

PROJECT MANAGER:
BEN MCVAY
314-705-0128
DESIGNER:
CHRIS WEHRMAN
CHRIS WEHRMAN

IC4.00

PATE: PJ2503280014

4/29/2025 APPROVAL