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## NORTHERN & CENTRAL COMMONS AND GYM A/V SYSTEMS UPGRADES

PORTAGE PUBLIC SCHOOLS 8107 MUSTANG DR. Portage, MI 49002

**DESIGN TEAM** 

ARCHITECT/ENGINEER

TowerPinkster

242 E. KALAMAZOO AVE, SUITE 100 KALAMAZOO, MICHIGAN 49007 PHONE: 269.343.6133 FAX: 269.343.6633

## REFERENCED CODES

BUILDING: 2015 MICHIGAN BUILDING CODE AND 2012 NFPA 101 LIFE SAFETY CODE
ENERGY: 2015 MICHIGAN ENERGY CODE
PLUMBING: 2018 MICHIGAN PLUMBING CODE
MECHANICAL: 2015 MICHIGAN MECHANICAL CODE
FUEL GAS: (IFGC) 2015 INTERNATIONAL FUEL GAS CODE
ELECTRICAL: 2017 NATIONAL ELECTRICAL CODE WITH MICHIGAN AMENDMENT
BARRIER-EREE: 2015 MICHIGAN BUILDING CODE AND 2009 ICC & C A117

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TECHNOLOGY
T 001 TECHNOLOGY SYMBOLS AND GENERAL NOTES

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SITE ADDRESS

OWNER NAME STREET ADDRESS CITY, STATE ZIP CODE



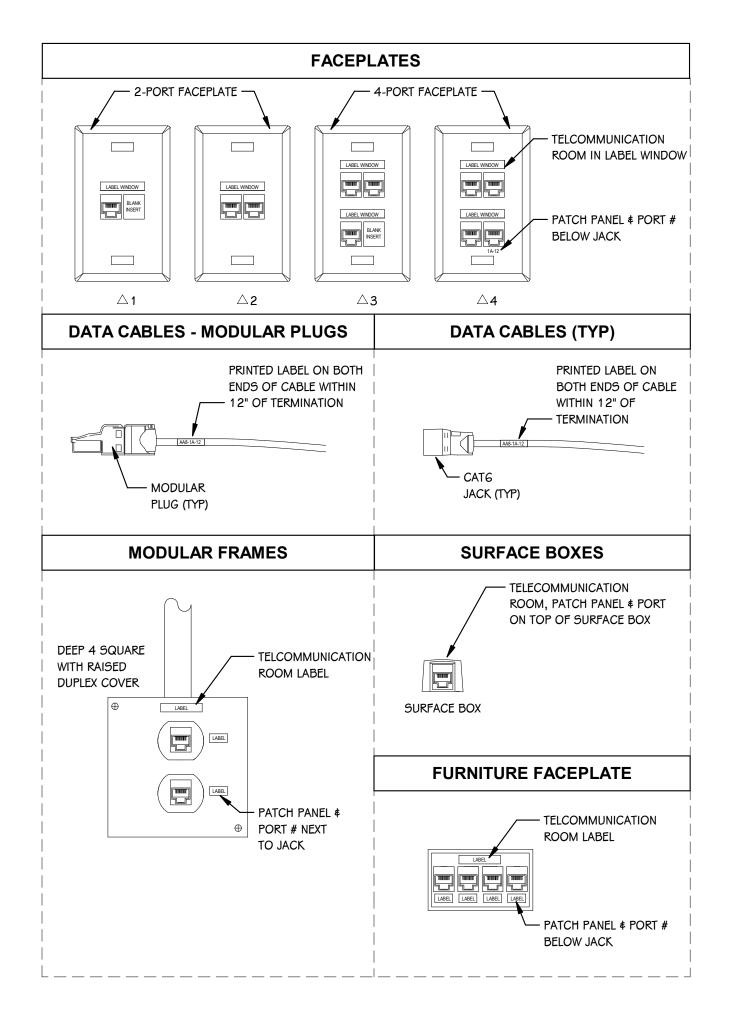
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GYM A/V SYSTEMS UPGRADES

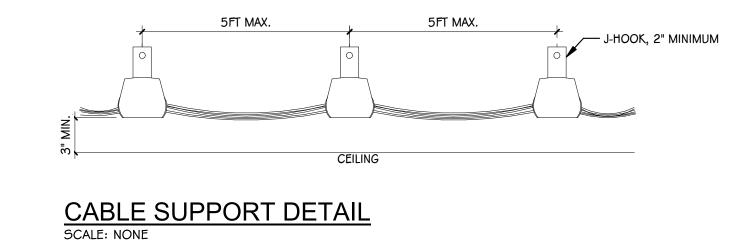
8107 MUSTANG DR.

date APRIL 20TH, 20

			STRUCT	<b>URED CA</b>	BLING S	SCHEDULE	
DESCRIPTION	ENVIRONMENTAL SPACE	COLOR	PERFORMANCE LEVEL	MANUFACTURER	MFG. PART NUMBER	PURPOSE	CABLING NOTES
CABLE	PLENUM	WHITE	CAT6	GENERAL CABLE	7131801	ALL DATA CONNECTIONS	
CABLE	RISER	WHITE	CAT6	GENERAL CABLE	7133801	ALL DATA CONNECTIONS	
JACK MODULE	NA	RED	CAT6	PANDUIT	CJ688TGRD	COPPER BACKBONE	INSTALL ON EACH END OF INSTALLED CABLE
JACK MODULE	NA	ORANGE	CAT6	PANDUIT	CJ688TGOR	RESERVED	INSTALL ON EACH END OF INSTALLED CABLE
JACK MODULE	NA	YELLOW	CAT6	PANDUIT	CJ688TGYL	WIRELESS ACCESS POINT	INSTALL ON EACH END OF INSTALLED CABLE
JACK MODULE	NA	GREEN	CAT6	PANDUIT	CJ688TGGR	FACILITIES	INSTALL ON EACH END OF INSTALLED CABLE
JACK MODULE	NA	BLUE	CAT6	PANDUIT	CJ688TGBU	SPECIAL NETWORK	INSTALL ON EACH END OF INSTALLED CABLE
JACK MODULE	NA	VIOLET	CAT6	PANDUIT	CJ688TGVL	SECURITY CAMERAS	INSTALL ON EACH END OF INSTALLED CABLE
JACK MODULE	NA	BLACK	CAT6	PANDUIT	CJ688TGBL	RESERVED	INSTALL ON EACH END OF INSTALLED CABLE
JACK MODULE	NA	GREY	CAT6	PANDUIT	CJ688TGIG	POTS LINE	INSTALL ON EACH END OF INSTALLED CABLE
JACK MODULE	NA	IVORY, WHITE OR OFF-WHITE	CAT6	PANDUIT	CJ688TG**	GENERAL DATA # IP PHONES	INSTALL ON EACH END OF INSTALLED CABLE
1-PORT FACEPLATE (PLASTIC)	NA	SEE NOTES	NA	PANDUIT	CFPL1**Y		COLOR \$ MATERIAL SHALL MATCH ELECTRICAL DEVICES WITHIN SAME SPACE
2-PORT FACEPLATE (PLASTIC)	NA	SEE NOTES	NA	PANDUIT	CFPL2**Y		COLOR \$ MATERIAL SHALL MATCH ELECTRICAL DEVICES WITHIN SAME SPACE
2-PORT FACEPLATE (STAINLESS STEEL)	NA	SEE NOTES	NA	PANDUIT	CFPL25Y		COLOR \$ MATERIAL SHALL MATCH ELECTRICAL DEVICES WITHIN SAME SPACE
3-PORT FACEPLATE (PLASTIC)	NA	SEE NOTES	NA	PANDUIT	CFPL3**Y		COLOR \$ MATERIAL SHALL MATCH ELECTRICAL DEVICES WITHIN SAME SPACE
4-PORT FACEPLATE (PLASTIC)	NA	SEE NOTES	NA	PANDUIT	CFPL4**Y		COLOR \$ MATERIAL SHALL MATCH ELECTRICAL DEVICES WITHIN SAME SPACE
4-PORT FACEPLATE (STAINLESS STEEL)	NA	SEE NOTES	NA	PANDUIT	CFPL4SY		COLOR \$ MATERIAL SHALL MATCH ELECTRICAL DEVICES WITHIN SAME SPACE
G-PORT FACEPLATE (PLASTIC)	NA	SEE NOTES	NA	PANDUIT	CFPL6**Y		COLOR \$ MATERIAL SHALL MATCH ELECTRICAL DEVICES WITHIN SAME SPACE
G-PORT FACEPLATE (STAINLESS STEEL)	NA	SEE NOTES	NA	PANDUIT	CFPL65Y		COLOR \$ MATERIAL SHALL MATCH ELECTRICAL DEVICES WITHIN SAME SPACE
10-PORT FACEPLATE, 2-GANG (PLASTIC)	NA	SEE NOTES	NA	PANDUIT	CFPE10**-2GY		COLOR \$ MATERIAL SHALL MATCH ELECTRICAL DEVICES WITHIN SAME SPACE
10-PORT FACEPLATE, 2-GANG (STAINLESS STEEL)	NA	SEE NOTES	NA	PANDUIT	CFPL105-2GY		COLOR \$ MATERIAL SHALL MATCH ELECTRICAL DEVICES WITHIN SAME SPACE
1-PORT SURFACE BOX	PLENUM	SEE NOTES	NA	PANDUIT	CBX1**-A		COLOR \$ MATERIAL SHALL MATCH ELECTRICAL DEVICES WITHIN SAME SPACE
2-PORT SURFACE BOX	PLENUM	SEE NOTES	NA	PANDUIT	CBX2**-A		COLOR \$ MATERIAL SHALL MATCH ELECTRICAL DEVICES WITHIN SAME SPACE
4-PORT FURNITURE ADAPTER	NA	SEE NOTES	NA	PANDUIT	NA	ALL MODULAR FURNITURE CONNECTIONS	MATCH WITH FURNITURE MFG.
PATCH CABLE	PLENUM	MATCH JACK MODULE COLOR	CAT6	PANDUIT	UPP***10	ALL DATA CONNECTIONS IN PLENUM SPACE	LENGTH = 10FT (PROVIDE/INSTALL 1 PER INSTALLED CABLE)
PATCH CABLE	RISER	WHITE	CAT6	PANDUIT	UTP285P1	CROSS-CONNECT BETWEEN PATCH PANEL AND NETWORK SWITCH	LENGTH = 1FT (PROVIDE/INSTALL 1 PER INSTALLED CABLE)
PATCH CABLE	RISER	WHITE	CAT6	PANDUIT	UTPSP10Y	CONNECTION AT WORKSTATION/DEVICE	LENGTH = 10FT (PROVIDE/INSTALL 1 PER INSTALLED CABLE)







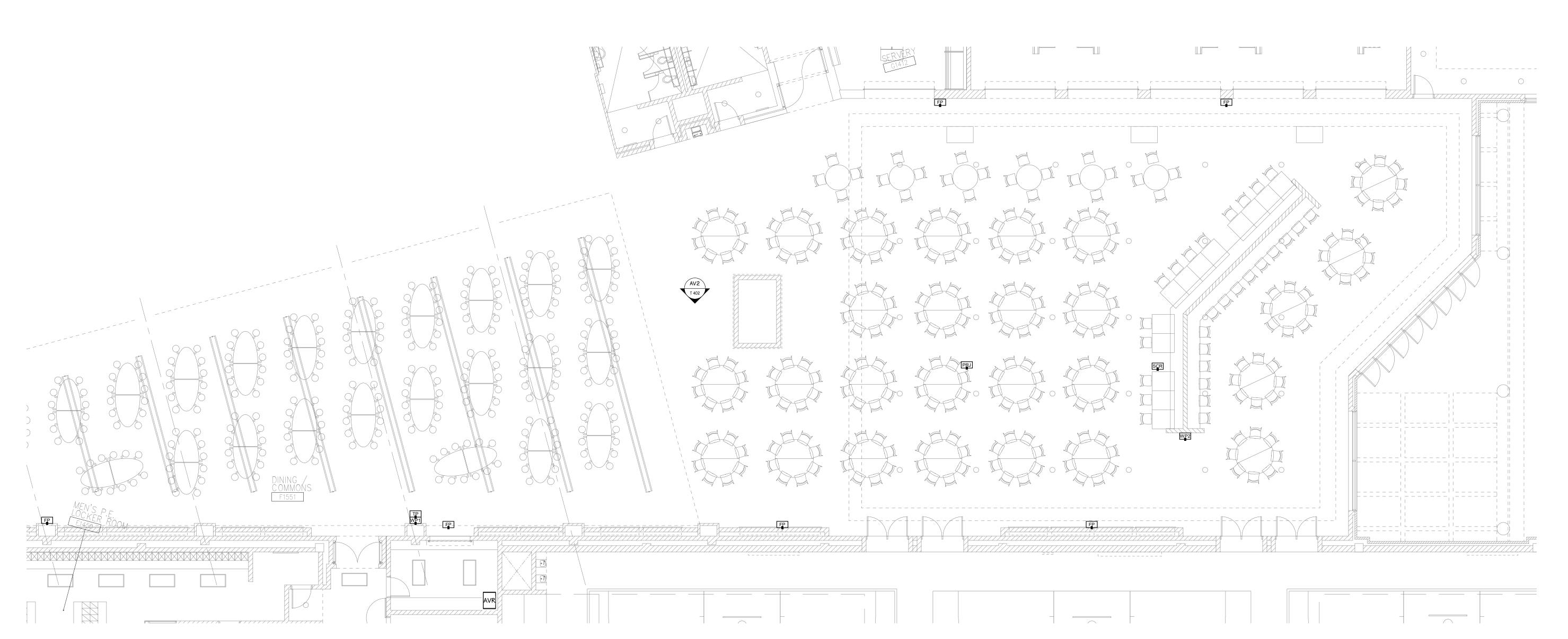
STRUCTURED CABLING **MOUNTING HEIGHTS** DATA/VOICE OUTLET - 4 SQ BOX, SG COVER, 1" CONDUIT STUB DATA/VOICE OUTLET - 4 SQ BOX, SG COVER, SURFACE #WM500 DATA/VOICE OUTLET - 4 SQ BOX, SG COVER, 1" CONDUIT STUB 4" ABOVE BACKSPLASH SECURITY CONTROLS PATHWAY - 4 SQ BOX, SG COVER WITH BRUSH 16" 2 TECHNOLOGY CONTRACTOR SHALL ALIGN DEVICES VERTICALLY AND МСР \_\_\_\_\_ 4'> AUDIO/VISU SCR HS NOTES: MOUNT DEVICES OTHERWISE ON

4" ABOVE BACKSPLASH  SECURITY CONTROLS PATHWAY - 4 SQ BOX, SG COVER WITH BRUSH PLATE, 1" CONDUIT STUB  WRELESS ACCESS POINT (REFER TO DETAILS)  GROUNDING BUS BAR WITH DEDICATED GROUND, (REFER TO DETAILS)  CABLE TRAY, (12"x4" UNLESS NOTED OTHERWISE)  CLOCK (REFER TO DETAILS)  MASTER CLOCK PANEL  PAGING SYSTEM HEAD END  NETWORK COMMUNICATION RACK - FLOOR STANDING 3' CLEAR ON BOTH SIDES  4'X8'X3/4" FIRE-RATED PLYWOOD, A/C FINISH, MOUNT VERTICALLY  CONDUIT SLEEVE IN ACCESSIBLE CEILING (2" CONDUIT UNLESS NOTED OTHERWISE, ONLY SHOWN ON PLANS INDICATING SPECIFIC CONDITIONS, REFER TO GENERAL NOTES FOR SLEEVES THAT ARE REQUIRED INTO ALL SPACES)  SUAL  FLAT PANEL DISPLAY LOCATION WITH EXISTING POWER AND LV PATHWAY PROJECTOR LOCATION (POWER BY OTHERS)  AV WALLPLATE (REFER TO DETAILS)		TECHNOLOGY CONTRACTOR SHALL ALIGN DEVICES VERTICALLY AND HORIZONTALLY AND FOLLOW THE RULES OF THIS DETAIL CONSISTENTLY. A PRE-INSTALL DEVICE COORDINATION MEETING FOR DEVICE FINISHES AND LAYOUT MAY BE REQUIRED IN THE SPECIFICATION FOR THIS PROJECT.  REFER TO TECHNOLOGY DETAILS AND ELEVATIONS FOR SYMBOL INFORMATION AND ELEVATION DETAIL.  DEVICES AND EQUIPMENT SHOWN DASHED OR WITH AN "X" ARE TO BE REMOVED. FIXTURES, DEVICES AND EQUIPMENT SHOWN LIGHTLY OR WITH AN "E" ARE EXISTING TO REMAIN UNDISTURBED.  ALL PROGRAMMING WILL BE PERFORMED BY OWNER.  TEMPORARILY SUPPORT EXISTING CEILING DEVICES TO REMAIN IN EXISTING CEILINGS TO BE REPLACED. REINSTALL DEVICES INTO NEW CEILING.  CONTRACTOR SHALL BE RESPONSIBLE FOR PROJECT PHASING. TEMPORARY WIRING TO KEEP SYSTEMS RUNNING SHALL BE PROVIDED AS REQUIRED WHILE BUILDING IS OCCUPIED BETWEEN PHASES OF CONSTRUCTION.		TowerPinkS  Architecture · Engineering · Inter
TOUCH PANEL LOCATION (REFER TO DETAILS)  MICROPHONE JACK 16"  CEILING BOX, (REFER TO DETAILS)				
BLUETOOTH DEVICE - DEEP 4 SQ BOX, 1-G OPENING, (REFER TO DETAILS) 40"  ANTENNA, (REFER TO DETAILS)	STR 1	BICSI TECHNICIAN (TECH) CERTIFICATION IS REQUIRED FOR THE LEAD INSTALLER THAT WILL BE ONSITE AT ALL TIMES.		
PROJECTOR SCREEN, (REFER TO DETAILS)  LOUDSPEAKER CEILING - MOUNTED  LOUDSPEAKER WALL - MOUNTED	2	EACH INSTALLER IS REQUIRED TO BE CERTIFIED BY THE MANUFACTURER OF THE PRODUCTS THAT ARE INSTALLED (I.E. PANDUIT, BELDEN,		
VOLUME CONTROL 40"	3	HUBBELL, COMMSCOPE, ETC.).  VALID BICSI TECH AND MANUFACTURER INSTALLER CERTIFICATES SHALL  DE MICHIERE IN CHEMITAL PACKAGE.		
ICES AT HEIGHTS INDICATED UNLESS INDICATED ON PLANS. HEIGHTS ARE TO BOTTOM OF DEVICE.	4	BE INCLUDED IN SUBMITTAL PACKAGE.  ALL CERTIFICATION TEST RESULTS OF THE STRUCTURED CABLING SYSTEM SHALL BE SUBMITTED TO TOWERPINKSTER AS PART OF THE CLOSEOUT PACKAGE.	ISSUED FOR	DATE
	5	STRUCTURED CABLING INTEGRATOR SHALL PROVIDE A MANUFACTURER'S 25 YEAR WARRANTY AT PROJECT COMPLETION.		
	6	ALL CABLES SHALL HAVE A MINIMUM OF 5FT SERVICE LOOP AT OUTLET LOCATION OR AS NOTED ON DRAWINGS.	AND	
	7	ALL DATA CABLES SHALL HAVE A MINIMUM OF 5FT SERVICE LOOP IN THE TELECOMMUNICATIONS ROOM.		
	8	DATA CABLES SHALL NOT BE BUNDLED IN GROUPS OF MORE THAN 24 WITHIN A TELECOMMUNICATIONS ROOM.	COMMONS	
	9	STRUCTURED CABLING INTEGRATOR SHALL PROVIDE THE MINIMUM REQUIRED QUANTITY OF PATCH PANELS NEEDED FOR ALL DATA CABLES PLUS HAVE CAPACITY FOR A MINIMUM OF 20 FUTURE DATA CABLES.	COMI	
	10	ALL DATA FACEPLATES SHALL MATCH THE COLOR, STYLE AND MATERIAL (I.E. STAINLESS STEEL, PLASTIC, ETC.) OF THE ELECTRICAL DEVICE FACEPLATE WITHIN EACH SPACE.	RAL UPG	
	11	ALL HORIZONTAL CABLES (CATEGORY CABLE, COAX, FIBER, ETC.) SHALL BE CERTIFIED BY USING A MINIMUM OF A LEVEL IIIE CERTIFICATION TESTER THAT IS WITHIN MANUFACTURER'S CALIBRATION PERIOD.	CENT FEMS I	
	12	ALL BACKBONE FIBER STRANDS SHALL BE CERTIFIED BY USING A MINIMUM OF A LEVEL IIIE CERTIFICATION TESTER THAT IS WITHIN MANUFACTURER'S CABLIBRATION PERIOD.	ILE IERN & V SYS	
	AUE	DIO SYSTEM NOTES	ORTH YM A	
	1	AUDIO SYSTEM SHALL BE FREE OF NOISE, RATTLE, HUM, BUZZ, OR ANY OTHER AUDIO DISTORTIONS	ON GY	
	2	SECURE CABLES UTILIZING VELCRO STRAPS. WIRE "ZIP TIES" SHALL NOT BE USED		
	3	ROUTE ALL CABLES IN A MANNER THAT WILL ENSURE SIGNAL INTEGRITY AND WILL NOT INTRODUCE CROSSTALK		
	4	PROVIDE A SERVICE LOOP FOR RACKS AND EQUIPMENT SUITABLE TO EASILY PLUG AND UNPLUG EQUIPMENT FOR TROUBLESHOOTING OR REPLACEMENT		
	5	NEATLY DRESS ALL CABLING INSTALLED INSIDE AND OUTSIDE OF RACKS IN A SUITABLE HARNESS TO KEEP CABLES CLEAN, NEAT, AND TIDY	l S	
	6	COMMISSION AUDIO SYSTEM USING AUDIO MEASUREMENT MICROPHONE AND SOFTWARE (SMAART OR EASERA)	CHOOI	
	7	ADJUST EQ AND CROSSOVER SETTINGS IN AMPLIFIER AND/OR DSP TO PROVIDE FLAT FREQUENCE RESPONSE, FULL RANGE AUDIO WITH PROTECTIVE LIMITING	S	ď.
	8	USE SPEECH, HIGH QUALITY REFERENCE AUDIO, AND SINE WAVE SWEEPS TO TEST THE SYSTEM - CORRECT ANY ABNORMALITIES	BLIC	NG DI 49002
	9	VERIFY PROPER FUNCTION OF ALL INSTALLED EQUIPMENT (NEW AND EXISTING)	E PUBI	STAN MI 49
	10	TURN OVER EXISTING UNUSED EQUIPMENT TO OWNER - NEATLY ORGANIZED	  AGE	MU ge,
	11	COORDINATE WITH OWNER FOR LABELING OF EQUIPMENT AND AUDIO CONSOLE CHANNELS AND BUSSES AS WELL AS CONSOLE CONFIGURATION	owner POR	107 orta
	12	REMOTE MOUNT ALL ANTENNAS AS REQUIRED FOR MAXIMUM PERFORMANCE	ош.	∞ Δ
	13	CONFIGURE DELAYS ON ANY SPEAKERS THAT ARE STAGGERED IN A LISTENING PLANE TO TIME-ALIGN AUDIO	=RAI	23
	14	CONNECT COMPONENTS TO POWER SEQUENCER IN SUCH A WAY AS TO MITIGATE POPPING AND SYSTEM DAMAGE DURING SYSTEM POWER UP AND POWER DOWN	GENE	20TH, 2023
	VIDI	EO SYSTEM NOTES	AND	
	1	INSTALLED VIDEO SYSTEMS SHALL NOT HAVE NOISE, FLICKER, UNEVEN BRIGHTNESS, OR ANY OTHER VISUAL ANOMOLIES OR DEFICIENCIES	SOLS	DATE APRIL
	2	EDID SHALL BE MANAGED AND MAINTAINED TO ENSURE PROPER DISPLAY IDENTIFICATION BY SOURCES	YMBOL	J /
		HDCP SHALL BE MAINTAINED FROM ALL SOURCES TO ALL SINKS	GY S	
	4	COORDINATE ALL NETWORK NEEDS WITH OWNER INCLUDING IP ADDRESSING, PROTOCOLS REQUIRED FOR EQUIPMENT OPERATION, AND BANDWIDTH IMPLICATIONS	)07(	₩ <b>—</b>
	5	PROJECTION SYSTEMS WILL NOT USE DIGITAL KEYSTONE OR QUICK CORNER FUNCTIONS. ALL ADJUSTMENTS WILL BE MADE BY PHYSICALLY POSITIONING THE PROJECTOR AND/OR LENS SHIFT AND OPTICAL ZOOM	CHNC CHNC TES	ET NUMB 00,

GENERAL TECHNOLOGY NOTES

REMOVED AND NOT REPLACED.

TECHNOLOGY CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CUTTING AND PATCHING REQUIRED FOR NEW WORK OR WHERE DEVICES ARE



CENTRAL HIGH SCHOOL COMMONS - FIRST FLOOR TECHNOLOGY PLAN

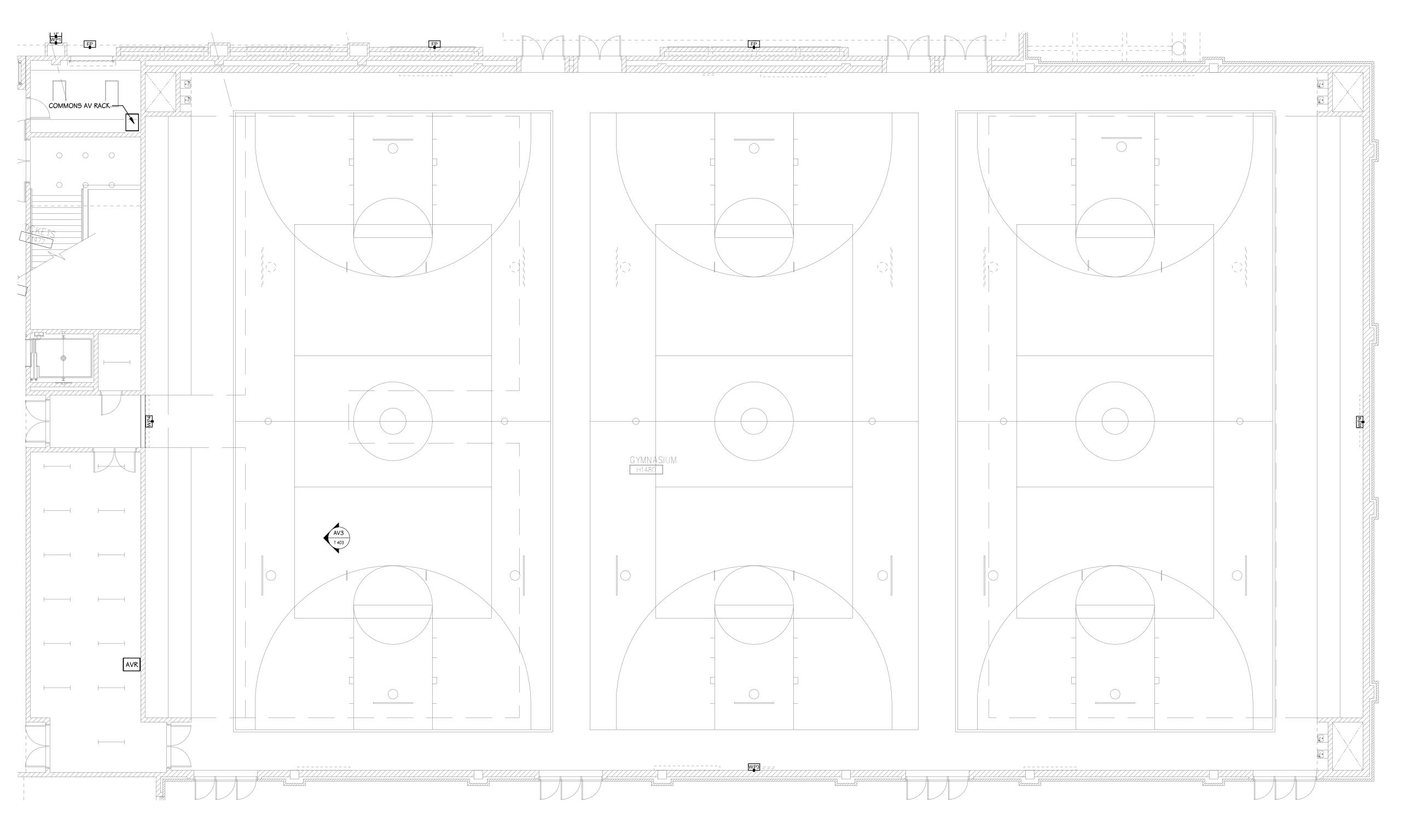
SHEET TITLE
CENTRAL HS COMMONS
TECHNOLOGY PLAN

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SHEET NUMBER

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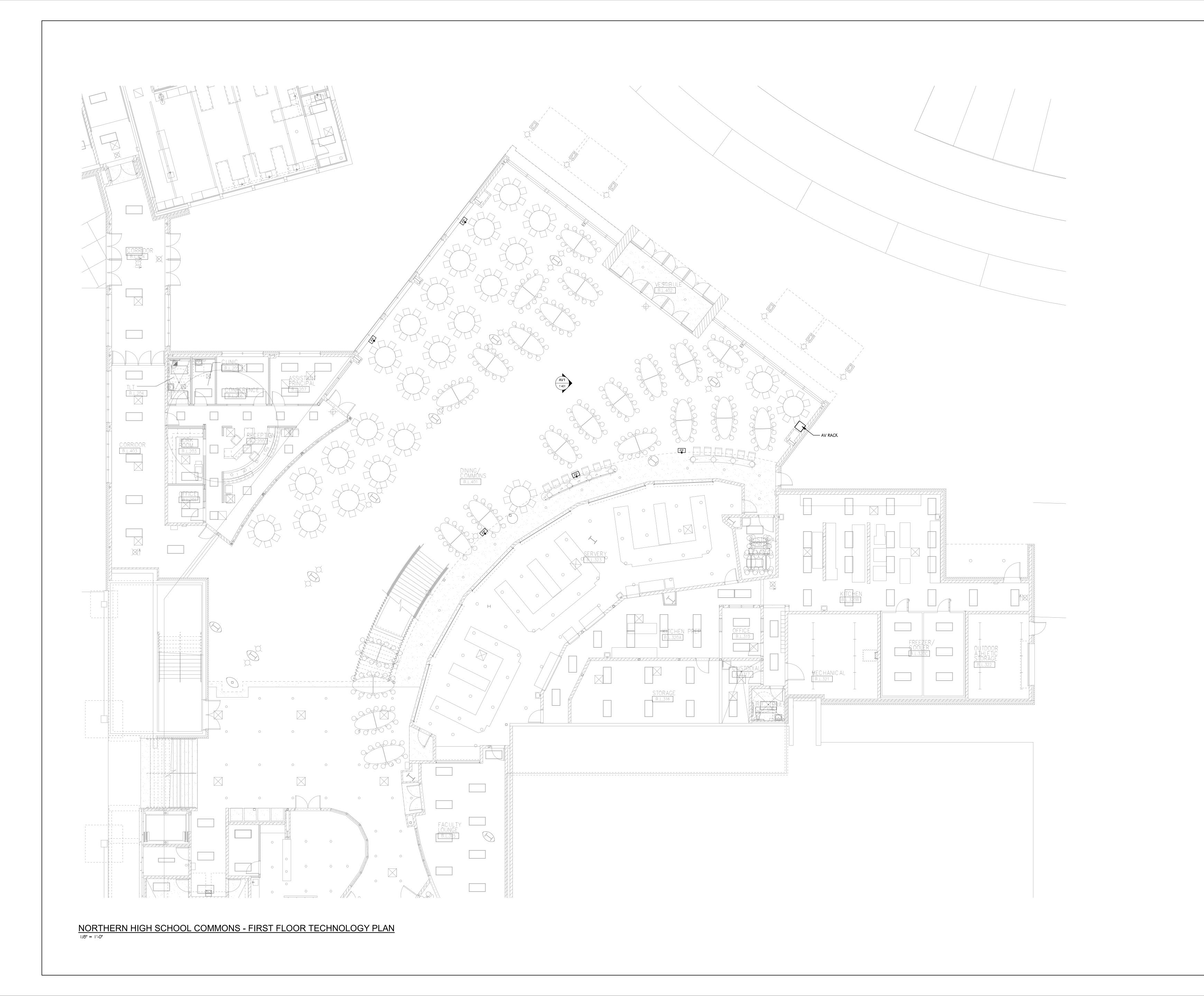
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CENTRAL HIGH SCHOOL GYM - FIRST FLOOR TECHNOLOGY PLAN

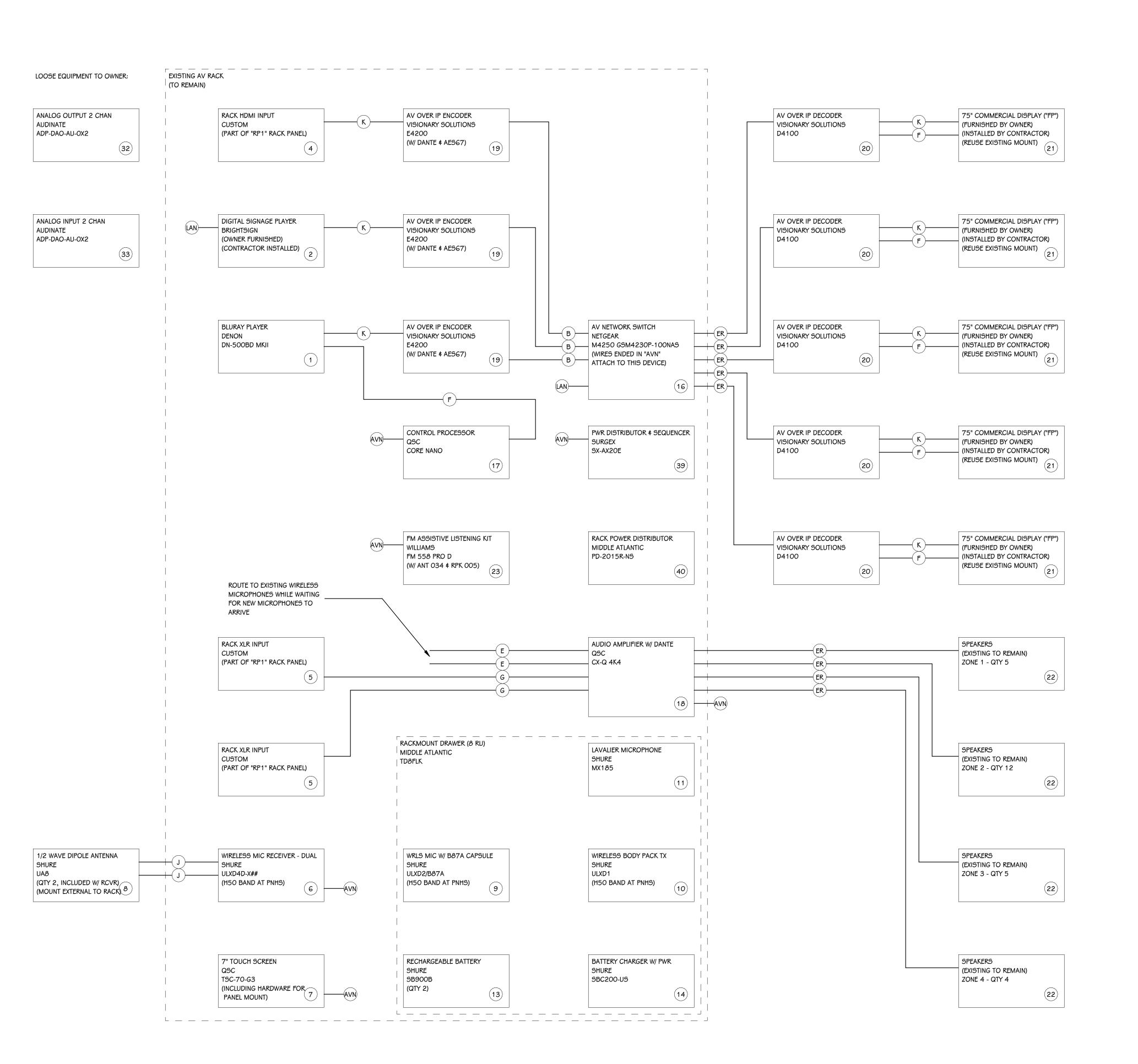
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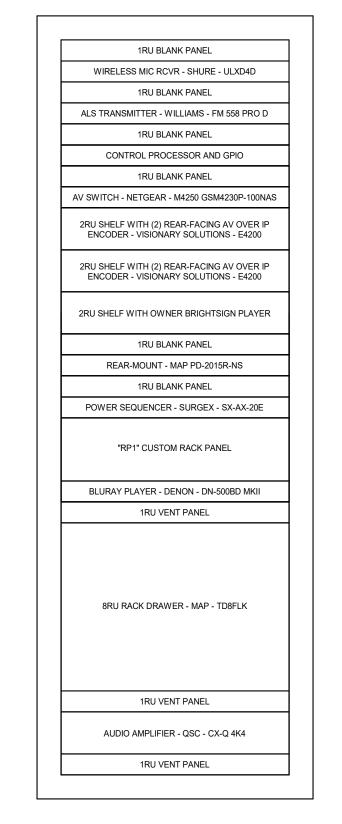


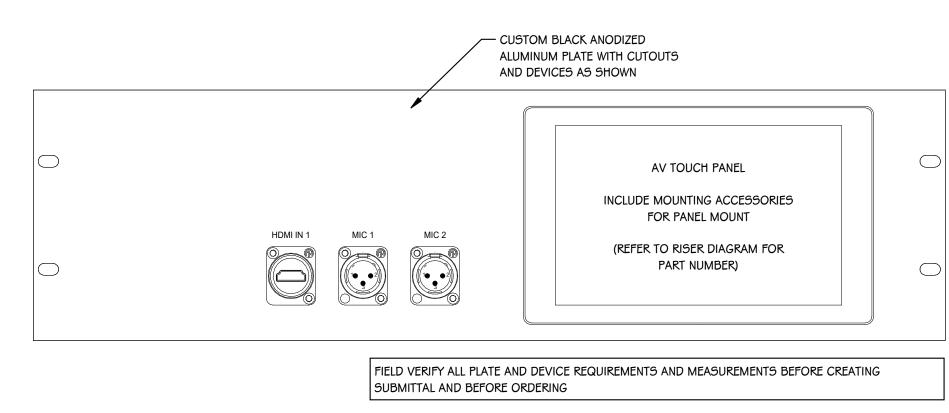
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SHEET TITLE
NORTHERN HS COMMONS - F
FLOOR TECHNOLOGY PLAN



DEMO ALL EQUIPMENT NO LONGER REQUIRED FROM RACK AND RETURN TO OWNER OR, AT OWNER'S DIRECTION, RECYCLE. RE-DRESS AND LABEL ALL NEW AND EXISTING CABLING.





NHS RACK ELEVATION DETAIL

"RP1" RACK PANEL DETAIL

6" = 1'-0"

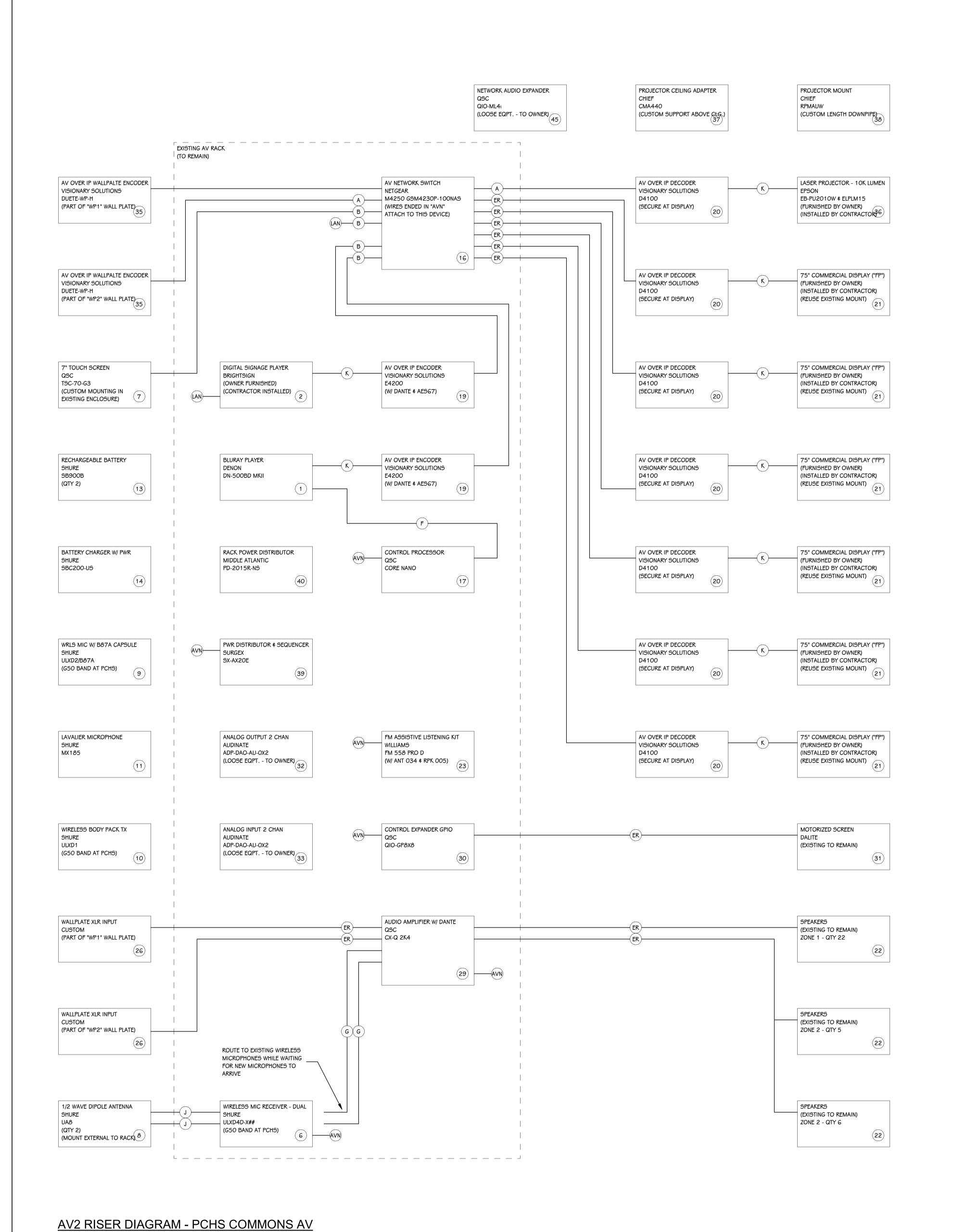
		AVI	EQUIPMENT SCHEDULE	
KEY #	DESCRIPTION	MANUFACTURER	PART#	COMMENTS
1	BLURAY PLAYER	DENON	DN-500BD MKII	
2	DIGITAL SIGNAGE PLAYER	BRIGHTSIGN		
4	RACK HDMI INPUT	CUSTOM		
5	RACK XLR INPUT	CUSTOM		
6	WIRELESS MIC RECEIVER - DUAL	SHURE	ULXD4D-X##	
7	7" TOUCH SCREEN	QSC	TSC-70-G3	
8	1/2 WAVE DIPOLE ANTENNA	SHURE	UA8	
9	WRLS MIC W/ B87A CAPSULE	SHURE	ULXD2/B87A	
10	WIRELESS BODY PACK TX	SHURE	ULXD1	
11	LAVALIER MICROPHONE	SHURE	MX185	
13	RECHARGEABLE BATTERY	SHURE	SB900B	
14	BATTERY CHARGER W/ PWR	SHURE	SBC200-US	
16	AV NETWORK SWITCH	NETGEAR	M4250 GSM4230P-100NAS	
17	CONTROL PROCESSOR QSC		CORE NANO	PROVIDE WITH 16X16 DANTE LICENSE, SCRIPTING LICENSE, UCI LICENSE, AND ANY OTHER SOFTWARE OR LICENSING REQUIRED FOR SYSTEM PROGRAMMING AND OPERATION.
18	AUDIO AMPLIFIER W/ DANTE	QSC	CX-Q 4K4	
19	AV OVER IP ENCODER	VISIONARY SOLUTIONS	E4200	
20	AV OVER IP DECODER	VISIONARY SOLUTIONS	D4100	
21	75" COMMERCIAL DISPLAY ("FP")	(FURNISHED BY OWNER)	(INSTALLED BY CONTRACTOR)	
22	SPEAKERS	(EXISTING TO REMAIN)		
23	FM ASSISTIVE LISTENING KIT	WILLIAMS	FM 558 PRO D	
32	ANALOG OUTPUT 2 CHAN	AUDINATE	ADP-DAO-AU-0X2	
33	ANALOG INPUT 2 CHAN	AUDINATE	ADP-DAO-AU-0X2	
39	PWR DISTRIBUTOR & SEQUENCER	SURGEX	SX-AX20E	
40	RACK POWER DISTRIBUTOR	MIDDLE ATLANTIC	PD-2015R-NS	
A	CAT6 BULK CABLE	SEE CABLE DETAIL SCHEDULE		LENGTH AS REQUIRED FOR APPLICATION
AVN	AV NETWORK (LOCAL)			CONNECTION TO AV NETWORK (LOCAL)
В	CAT6 PATCH CORD	SEE CABLE DETAIL SCHEDULE		LENGTH AS REQUIRED FOR APPLICATION
E	LINE AUDIO CABLE	BELDEN	9451P	CONNECTORS AS REQUIRED FOR APPLICATION. NEUTRIK NP[2/3]X-BAG FOR TS/TRS
ER	EXISTING CABLE TO BE REUSED	VARIOUS	VARIOUS	REPLACE CONNECTORS AS REQUIRED
F	CONTROL CABLE	BELDEN	9451P	CONNECTORS AS REQUIRED FOR APPLICATION.
G	MICROPHONE CABLE	MICROPHONE CABLE BELDEN		CONNECTORS AS REQUIRED FOR APPLICATION. NEUTRIK NC3[M/F]XX-BAG FOR XLR
J	RF ANTENNA CABLE BELDEN		89913	INCREASE CONDUCTOR GAUGE AS NEEDED TO MAINTAIN SUFFICIENT SIGNAL
K	HDMI CABLE	KRAMER	C-HM/HM/PICO/[XX]-[##]	LENGTH AS REQUIRED FOR APPLICATION WITH "##". MATCH COLOR WITH "XX". USE C-HM/HM/PRO-[##] FOR LENGTHS OVER 9'.
LAN	PRODUCTION LAN			CONNECTION TO BUILDING LAN

8107 MUST/ Portage, MI

**ISSUED FOR** 

8 CENTRAL CC STEMS UPGRA

PROJECT TITLE NORTHERN & GYM A/V SYS



AV2 EQUIPMENT SCHEDULE MANUFACTURER COMMENTS DESCRIPTION PART# BLURAY PLAYER DENON DN-500BD MKII **BRIGHTSIGN** DIGITAL SIGNAGE PLAYER WIRELESS MIC RECEIVER - DUAL SHURE ULXD4D-X## 7" TOUCH SCREEN QSC TSC-70-G3 1/2 WAVE DIPOLE ANTENNA SHURE UA8 WRLS MIC W/ B87A CAPSULE SHURE ULXD2/B87A WIRELESS BODY PACK TX SHURE ULXD1 LAVALIER MICROPHONE SHURE MX185 RECHARGEABLE BATTERY SHURE SB900B 14 BATTERY CHARGER W/ PWR SBC200-US SHURE NETGEAR AV NETWORK SWITCH M4250 GSM4230P-100NAS QSC CONTROL PROCESSOR CORE NANO PROVIDE WITH 16X16 DANTE LICENSE, SCRIPTING LICENSE, UCI LICENSE, AND ANY OTHER SOFTWARE OR LICENSING REQUIRED FOR SYSTEM PROGRAMMING AND OPERATION. 19 AV OVER IP ENCODER VISIONARY SOLUTIONS | E4200 20 AV OVER IP DECODER VISIONARY SOLUTIONS D4100 21 75" COMMERCIAL DISPLAY ("FP") (FURNISHED BY (INSTALLED BY OWNER) CONTRACTOR) SPEAKERS (EXISTING TO REMAIN) FM ASSISTIVE LISTENING KIT WILLIAMS FM 558 PRO D WALLPLATE XLR INPUT **CUSTOM** QSC AUDIO AMPLIFIER W/ DANTE CX-Q 2K4 CONTROL EXPANDER GPIO QSC QIO-GP8X8 DALITE MOTORIZED SCREEN (EXISTING TO REMAIN) ANALOG OUTPUT 2 CHAN AUDINATE ADP-DAO-AU-0X2 ANALOG INPUT 2 CHAN AUDINATE ADP-DAO-AU-0X2 AV OVER IP WALLPALTE VISIONARY SOLUTIONS | DUETE-WP-H ENCODER LASER PROJECTOR - 10K LUMEN | EPSON EB-PU2010W & ELPLM15 PROJECTOR CEILING ADAPTER CHIEF CMA440 PROJECTOR MOUNT CHIEF **RPMAUW** SURGEX PWR DISTRIBUTOR & SX-AX20E SEQUENCER MIDDLE ATLANTIC PD-2015R-NS RACK POWER DISTRIBUTOR 45 NETWORK AUDIO EXPANDER QSC QIO-ML4i SEE CABLE DETAIL LENGTH AS REQUIRED FOR APPLICATION CAT6 BULK CABLE SCHEDULE AVN AV NETWORK (LOCAL) CONNECTION TO AV NETWORK (LOCAL) CAT6 PATCH CORD SEE CABLE DETAIL LENGTH AS REQUIRED FOR APPLICATION SCHEDULE ER EXISTING CABLE TO BE REUSED REPLACE CONNECTORS AS REQUIRED VARIOUS **VARIOUS** BELDEN CONNECTORS AS REQUIRED FOR APPLICATION. NEUTRIK NC3[M/F]XX-BAG FOR XLR MICROPHONE CABLE RF ANTENNA CABLE BELDEN INCREASE CONDUCTOR GAUGE AS NEEDED TO MAINTAIN SUFFICIENT SIGNAL C-HM/HM/PICO/[XX]-[##] HDMI CABLE KRAMER LENGTH AS REQUIRED FOR APPLICATION WITH "##". MATCH COLOR WITH "XX". USE C-HM/HM/PRO-[##] FOR LENGTHS OVER 9'. LAN PRODUCTION LAN CONNECTION TO BUILDING LAN

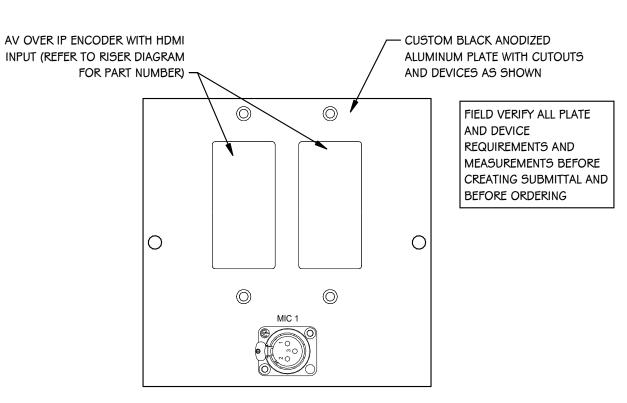


- MOUNT TOUCH PANEL BEHIND LATCHING NON-LOCKING DOOR

RE-WORK EXISTING ROUGH-IN AND BOX TO PROVIDE LATCHING DOOR (NO LOCK) OVER NEW TOUCH PANEL

FIELD VERIFY ALL PLATE AND DEVICE REQUIREMENTS AND MEASUREMENTS BEFORE CREATING SUBMITTAL AND BEFORE ORDERING

CHS COMMONS "TP" TOUCH PANEL DETAIL
SCALE: NONE



"WP1" WALL PLATE DETAIL

AV OVER IP ENCODER WITH HDMI - CUSTOM BLACK ANODIZED INPUT (REFER TO RISER DIAGRAM ALUMINUM PLATE WITH CUTOUTS FOR PART NUMBER) -AND DEVICES AS SHOWN FIELD VERIFY ALL PLATE AND DEVICE REQUIREMENTS AND MEASUREMENTS BEFORE CREATING SUBMITTAL AND BEFORE ORDERING

CHS COMMONS RACK ELEVATION DETAIL

DEMO ALL EQUIPMENT NO LONGER REQUIRED FROM RACK AND RETURN TO OWNER OR, AT OWNER'S DIRECTION, RECYCLE. RE-DRESS AND

1RU BLANK PANEL

WIRELESS MIC RCVR - SHURE - ULXD4D 1RU BLANK PANEL ALS TRANSMITTER - WILLIAMS - FM 558 PRO D 1RU BLANK PANEL LAN SWITCH - OFE EXISTING TO REMAIN

AV SWITCH - NETGEAR - M4250 GSM4230P-100NAS

2RU VENT PANEL

2RU SHELF WITH REAR-FACING AV OVER IP ENCODER - VISIONARY SOLUTIONS - E4200

2RU VENT PANEL

2RU SHELF WITH OWNER BRIGHTSIGN PLAYER

2RU VENT PANEL

CONTROL PROCESSOR AND GPIO

1RU BLANK PANEL BLURAY PLAYER - DENON - DN-500BD MKII

REAR-MOUNT - MAP PD-2015R-NS

1RU BLANK PANEL

POWER SEQUENCER - SURGEX - SX-AX-20E

3RU VENT PANEL

3RU VENT PANEL

3RU VENT PANEL

AUDIO AMPLIFIER - QSC - CX-Q 2K4

LABEL ALL NEW AND EXISTING CABLING.

"WP2" WALL PLATE DETAIL

107 orta

 $\infty$   $\Box$ 

DATE

**ISSUED FOR** 

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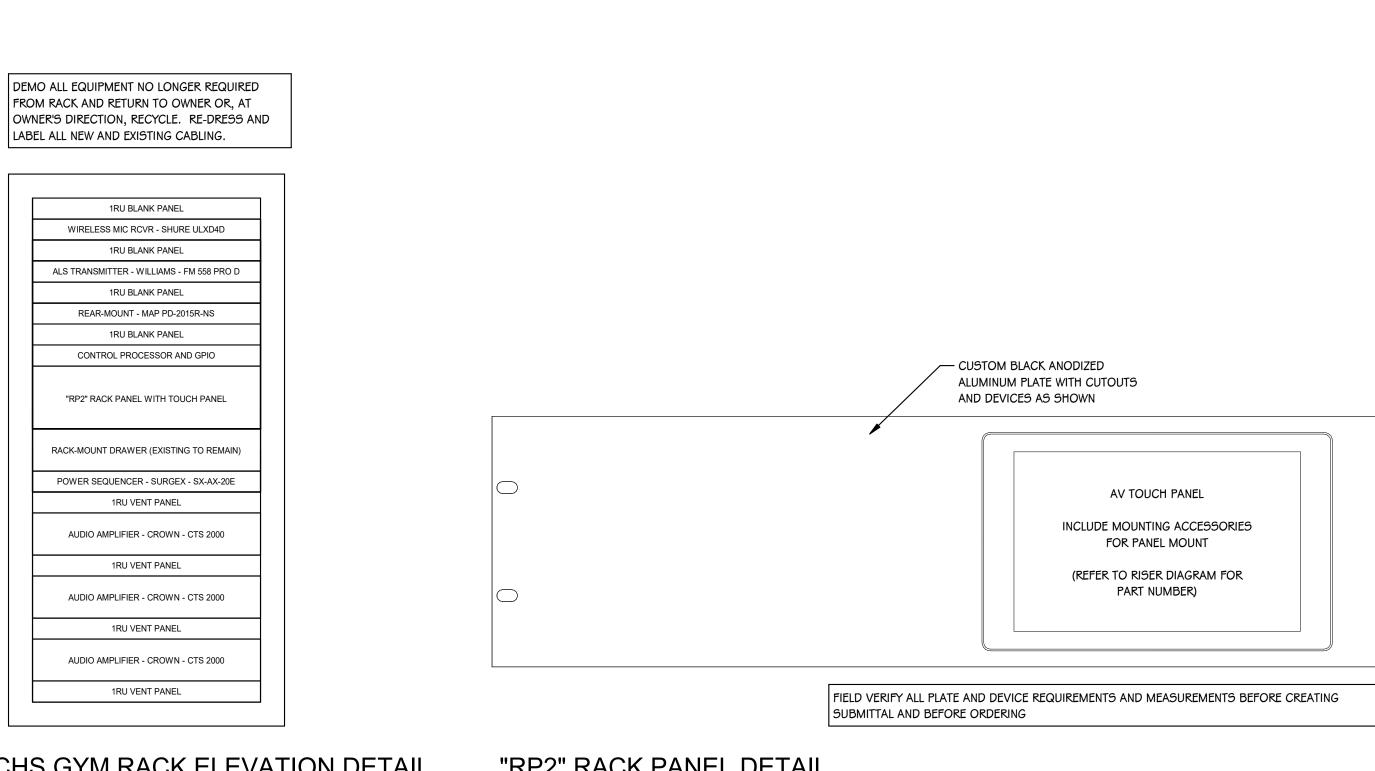
ISSUED FOR

PROJECT TITLE NORTHERN & CENTRAL C GYM A/V SYSTEMS UPGRA

ANG DR. 49002

8107 MUST/ Portage, MI

DATE



CHS GYM RACK ELEVATION DETAIL "RP2" RACK PANEL DETAIL

6" = 1'-0" 1 1/2" = 1'-0"

			AV3 EQUIPMENT SO	CHEDULE
KEY				
#	DESCRIPTION	MANUFACTURER	PART #	COMMENTS
6	WIRELESS MIC RECEIVER - DUAL	SHURE	ULXD4D-X##	
7	7" TOUCH SCREEN	QSC	TSC-70-G3	
3	1/2 WAVE DIPOLE ANTENNA	SHURE	UA8	
)	WRLS MIC W/ B87A CAPSULE	SHURE	ULXD2/B87A	
0	WIRELESS BODY PACK TX	SHURE	ULXD1	
1	LAVALIER MICROPHONE	SHURE	MX185	
13	RECHARGEABLE BATTERY	SHURE	SB900B	
4	BATTERY CHARGER W/ PWR	SHURE	SBC200-US	
22	SPEAKERS	(EXISTING TO REMAIN)		
23	FM ASSISTIVE LISTENING KIT	WILLIAMS	FM 558 PRO D	
6	WALLPLATE XLR INPUT	CUSTOM		
0	CONTROL EXPANDER GPIO	QSC	QIO-GP8X8	
1	MOTORIZED SCREEN	DALITE	(EXISTING TO REMAIN)	
2	ANALOG OUTPUT 2 CHAN	AUDINATE	ADP-DAO-AU-0X2	
3	ANALOG INPUT 2 CHAN	AUDINATE	ADP-DAO-AU-0X2	
39	PWR DISTRIBUTOR & SEQUENCER	SURGEX	SX-AX20E	
0	RACK POWER DISTRIBUTOR	MIDDLE ATLANTIC	PD-2015R-NS	
1	AV NETWORK SWITCH (8-PORT)	NETGEAR	M4250 GSM4210PD	
2	AUDIO AMPLIFIER	CROWN		
3	WALLPLATE L/R RCA INPUT	CUSTOM		
14	CONTROL PROCESSOR	QSC	CORE 110F V2	PROVIDE WITH 8X8 DANTE LICENSE, SCRIPTING LICENSE, UCI LICENSE, AND ANY OTHER SOFTWARE OR LICENSING REQUIRED FOR SYSTEM PROGRAMMING AND OPERATION.
ΞR	EXISTING CABLE TO BE REUSED	VARIOUS	VARIOUS	REPLACE CONNECTORS AS REQUIRED
=	CONTROL CABLE	BELDEN	9451P	CONNECTORS AS REQUIRED FOR APPLICATION.
J	RF ANTENNA CABLE	BELDEN	89913	INCREASE CONDUCTOR GAUGE AS NEEDED TO MAINTAIN SUFFICIENT SIGNAL

