LITTLE
DIVERSIFIED ARCHITECTURAL CONSULTING

ADDENDUM NO. 2

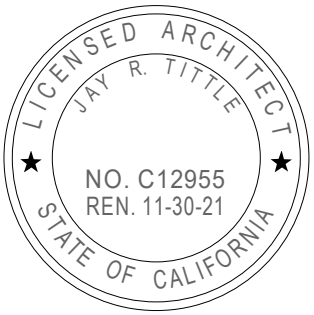
HOME BLEACHERS

LITTLE JOB #612-12353-10
DSA: A# 03-120515 File #56-H4

Rio Mesa High School
545 Central Avenue
Oxnard, CA 93036

October 07, 2020

LITTLE
1300 Dove Street, Suite 100
Newport Beach, CA 92660



Architect- Jay R. Tittle, C- 12955

1. PART 1 - GENERAL

1.1. The following revisions and/or clarifications shall be made to the Bidding Requirements and Contract Documents. Revise and amend the Documents for the above named project in accordance with this Addendum. The bid shall reflect these addendum changes and each bidder shall make reference in their bid to this addendum.

1.2. All Bidding Requirements and Contract Documents shall apply to this addendum as originally indicated in the applicable portions of the Contract Documents, unless otherwise modified by this addendum.

1.2.1. Previous Addendum #1 issued August 04, 2020.

1.3. GENERAL CLARIFICATIONS

1.3.1. The following clarifications are issued to all bidders as information for use in preparing bids:

1.3.1.1. The Stadium Renovation project under construction, by Byrom-Davey, Inc, has the following current milestone dates in their Project Schedule which Bidders for this Project should be aware of:

1.3.1.1.1. Stadium Lighting completion on December 03, 2020.

1.3.1.1.2. Overall Project completion on March 01, 2021.

1.3.1.2. The foundations designed/shown on the DSA-approved Bleachers plans for Rio Mesa High School are classified as 'conventional pad footings' with required subgrade prep as noted in the soils report.

2. PART 3 – DRAWINGS

2.1. GENERAL DRAWINGS ISSUED

2.1.1. Narrative changes to General Drawings are issued as follows:

2.1.1.1. Drawing G0.1.1 - Modify as follows:

2.1.1.1.1. Sheet Index – Audio Visual; Add the following sheets:

2.1.1.1.1.1. AV0.1 GENERAL NOTES AND SHEET INDEX

2.1.1.1.1.2. AV0.2 ABBREVIATIONS NOTES AND SYMBOLS

2.1.1.1.1.3. AV1.1 ENLARGED AV SITE PLAN

2.1.1.1.1.4. AV1.5 AV ENLARGED LAYOUTS

2.1.1.1.1.5. AV4.0 WIRING SCHEME AND SYMBOL KEY

2.1.1.1.1.6. AV4.1 AV ONELINE DIAGRAM

2.1.1.1.1.7. AV5.0 AV TYPICAL SEISMIC AND GROUNDING DETAILS

2.1.1.1.1.8. AV6.3 AV DETAILS

2.2. SOUTHERN BLEACHERS COMPANY DRAWINGS ISSUED

2.2.1. Narrative clarification to Southern Bleachers Drawings are issued as follows:

2.2.1.1. Drawing B26 – Press Box Layout

2.2.1.1.1. The flush mounted conduits and device boxes are provided per AV and FA drawings. Devices, wire, and surface mounted conduits are to be installed by the appropriate trades. Junction boxes are provided below the counter on the front wall. The 4x4x2-1/8", single gang box at 18" AFF with a ¾" C stubbed out the bottom of the building.

2.3. ELECTRICAL DRAWINGS ISSUED

2.3.1. The following Addendum ("AD") Drawings, marked Delta 2, are issued:

2.3.1.1. Drawing E-202: Revise currently issued Drawing per AD2-E1.

2.4. AUDIO VISUAL DRAWINGS ISSUED

2.4.1. The following Addendum ("AD") Drawings, marked Delta 2, are issued:

2.4.1.1. Drawing (AV0.1) AD2-AV1: New Sheet.

2.4.1.2. Drawing (AV0.2) AD2-AV2: New Sheet.

2.4.1.3. Drawing (AV1.1) AD2-AV3: New Sheet.

2.4.1.4. Drawing (AV1.5) AD2-AV4: New Sheet.

2.4.1.5. Drawing (AV4.0) AD2-AV5: New Sheet.

2.4.1.6. Drawing (AV4.1) AD2-AV6: New Sheet.

2.4.1.7. Drawing (AV5.0) AD2-AV7: New Sheet.

2.4.1.8. Drawing (AV6.3) AD2-AV8: New Sheet.

2.4.2. Narrative clarification to Audio Visual Drawings are issued as follows:

2.4.2.1. Audio Visual Scope of Work clarification:

2.4.2.1.1. Contractor shall visit project site to assess the condition of all existing football stadium audio equipment. They shall provide a report stating their findings and identify any nonfunctioning equipment. If the Contractor finds that any part of the existing system is not functioning, they shall report this to the Client. The Client will make arrangement to have the system repaired and reschedule the Contractor to revisit the site to confirm all equipment is functional. Once all equipment is functional, the Contractor shall provide a report to the Client confirming that all equipment is in working condition.

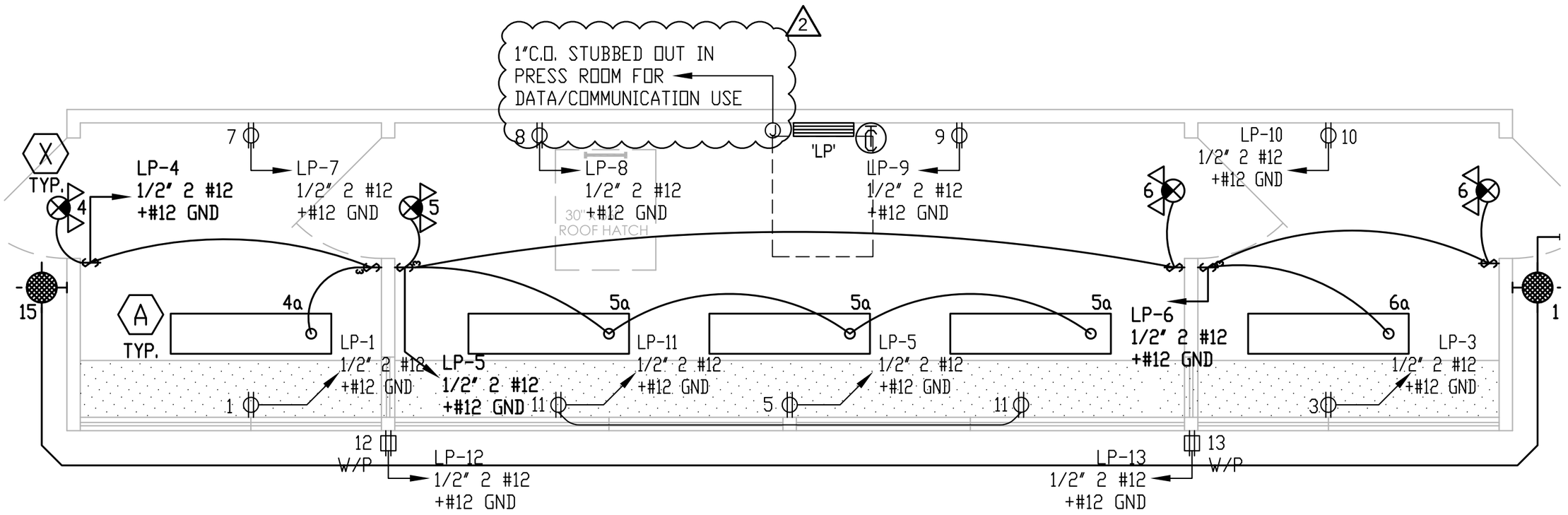
2.4.2.1.2. The Contractor shall then remove all audio system equipment including but not limited to Equipment Rack, Announcer Microphone, System Control Interface, Wireless Microphone and Assistive Listening Antennas, Audio Input Panel and System Infrastructure. All equipment is to be stored in a secure storage space until the new press box is built. Contractor shall then reinstall all stored equipment in the new press box per the AV drawings and confirm that the system is fully functional. Once the system is fully functional, the Contractor shall demonstrate the working system to the client.

END OF ADDENDUM #2

Enclosures:

I) New full-size Drawings Issued:
   a) Drawings AD2-AV1 through AD2-AV8, Delta 2.

II) New 11 x 17 Drawings Issued:
   a) Drawing AD2-E1, Delta 2.



PROJECT NO. 6121235310

ISSUE DATE 09/03/2020

REFERENCE 1/E-202

DRAWING # AD2-E1

PROJECT NAME
RIO MESA HIGH SCHOOL
HOME BLEACHER
545 CENTRAL AVENUE,
OXNARD, CA 93036

DESCRIPTION
PRESS BOX ELECTRICAL
FLOOR PLAN

2 ADDENDUM

PRINCIPAL IN CHARGE: B.E.S.
PROJECT MANAGER: A.O.
DESIGN TEAM: J.H.

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LITTLE
DIVERSIFIED ARCHITECTURAL CONSULTING

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PRESS BOX ELECTRICAL FLOOR PLAN | SCALE: 3/8"=1'-0" | 1

RIO MESA HIGH SCHOOL STADIUM SOUND SYSTEM

OXNARD UNION HIGH SCHOOL DISTRICT

OXNARD, CA

GENERAL NOTES

REFER TO AUDIO VISUAL SPECIFICATION SECTION FOR COMPLETE REQUIREMENTS

1. ELECTRICAL

   A. All conduits, junction boxes, back boxes, pull string and power outlets by Division 26 contractor as required.
   B. All power to AV equipment to originate from dedicated audio video load center in accordance with the latest local and national codes referencing "technical power systems", NEC Article 640.
   C. Branch circuits feeding audio-visual equipment must not originate from load centers connected to inductive loads.
   D. Provide all AV circuits with isolated ground, dedicated neutral.

2. COORDINATE

   A. Coordinate with the work of all sections. Coordinate the location of blocking and backing required by this section. Make reasonable minor adjustments to preserve architectural symmetry and alignment with adjacent features at no claim for additional cost or time. Present conflicts in timely manner for resolution.
   B. Relocation, revision or correction caused by failure of the contractor to coordinate the work shall not be subject to claim for additional cost or time.
   C. Power receptacles shown on the AV drawings outside of equipment racks are shown for coordination information only. Refer to Division 26 documents for construction.
   D. These drawings show scope. The exact location & elevations of loudspeakers, receptacles and devices must be coordinated with the architectural drawings.
   E. Conduit, back boxes and pull boxes supplied and installed by electrical contractor under supervision of AV contractor.
   F. General contractor shall coordinate the conduit, devices, pathways and junction boxes for the AV system with other trade to avoid any conflicts.

3. LOCATIONS AND DIMENSIONS

   A. Locations and dimensions shown on architectural drawings take precedence over these AV drawings. In case of apparent conflict or ambiguity, submit to the Architect in timely manner for resolution.
   B. Dimensions take precedence over scale. Large scale drawings take precedence over small. Report all conflicts before installation.
   C. Unless otherwise noted, dimensions are shown height x width x depth.
   D. Verify all dimensions, locations and conditions in the field prior to starting work. Notify Architect of any apparent discrepancies.

4. SUPPORT

   Provide all blocking, bridging, ties, fasteners and related support provisions for all work of this section. Comply with applicable code requirements for means of support of electrical equipment of the same weight under the same mounting conditions. Do not apply any load to building structure without first obtaining written approval of the project Structural Engineer. Obtain per project procedures. Supports for raceway system by Division 26 contractor.

5. BOX, PANEL AND ENCLOSURE INSTALLATION

   A. Coordinate the location of all boxes, panels, enclosures and related raceway with the work of other sections.
   B. Verify access to boxes, panels and enclosures comply with applicable code.
   C. Coordinate and correct all conditions of occlusion of all loudspeaker assemblies. Where more than one (1) flush mounted ceiling loudspeaker has been scheduled, none shall be located closer to any fixed wall than one-half (1/2) of the adjacent clear height, except at ceiling discontinuities, or where specifically shown on the drawings.
   D. Install boxes, panels and enclosures square and plumb. Set flush mounted units so that the face of the cover, Bezel or Escutcheon, is in the same plane as the surrounding finished surface. Mount boxes, panels and trim so that there are no gaps, cracks or obvious lines between the trim and the adjacent finished surface.
   E. Unless otherwise noted, provide steel boxes, panels and enclosures. Comply with Division 26 requirements and applicable code.
   F. Unless otherwise noted, boxes and enclosures shall be not less than 2-1/8 inches deep. Provide the larger of the size required by applicable code or as shown on drawings. Coordinate wire and cable bend radius with box and enclosure size.
   G. Pull boxes: Provide as required by the most restrictive of applicable code or the provisions of Division 26. Coordinate with wire and cable bend radius.
   H. Provide required fire rated junction boxes or fire stop box guards at all fire rated walls.

6. RACEWAY

   A. For all work of this section, raceway above ground shall be EMT, raceway below ground shall be PVC.
   B. Raceway shall be ¾ inch diameter trade size unless otherwise noted.
   C. All conduit runs over 100 ft. must have large radius bends.
   D. A maximum of two 90 degree elbows in each conduit run.
   E. Conduit with fiber optic cable installed, must conform to the minimum bend radius as specified by the manufacturer of the cable. Division 26 contractor is to apply radius bends where needed. Fiber bend radius shall be a minimum long-term low-stress radius not less than 20 times the cable diameter.
   F. Keep a minimum of 12" clear between electrical conduit and low voltage conduit.
   G. Provide fire rated conduit penetration seals at all fire rated walls.
   H. Conduit and accessories must be installed plumb and true with uniform fastening, fully dressed and finished.

7. GROUNDING AND BONDING

   Comply with all applicable codes and ordinances.
   Refer to National Electrical Code Section 250.

   A. Bond raceway and related boxes, panels, enclosures and cabinets as required by applicable code and Division 26.
   B. Make raceway connections to equipment racks and similar equipment enclosures containing powered equipment with isolated fittings.
   C. Ground and bond equipment racks and similar equipment enclosures containing powered equipment exclusively via the isolated equipment grounding conductors provided under Division 26. Size such conductors according to applicable code. For each technical branch circuit, the isolated equipment grounding conductor shall be copper of the same gauge as supply and neutral conductors. Main isolated equipment grounding conductor to each ensemble of equipment racks shall be copper, sized as required by applicable code.
   D. D.C. resistance between the isolated equipment grounding bus at equipment room technical power panels and the main project ground field shall not exceed 0.15 OHMS.
   E. For community antenna television and master antenna television systems and related provisions, comply with Article 800, National Electrical Code.

8. CABLE AND WIRE

   A. All low voltage cable and wire by Audio-Visual Contractor.
   B. Use plenum rated wire where required by code.
   C. Cable splicing not allowed in any pullboxes.

9. GENERAL

   A. In the event that these plans, notes or details or any part or portion thereof are used by any third-party without the express authorized permission of VENEKLASEN ASSOCIATES, the unauthorized user and anyone benefiting therefrom, shall defend, indemnify and hold harmless VENEKLASEN ASSOCIATES and its Agents, Principals, Employees and Consultants from and against any and all claims, including attorneys' fees arising out of said unauthorized use.
   B. Furthermore, the unauthorized use of these plans, notes, details or any part or portion therefore is expressly prohibited and VENEKLASEN ASSOCIATES retains a copyright over any and all documents prepared by VENEKLASEN ASSOCIATES.
   C. In the event that the installer deviates from the plans and specifications prepared by VENEKLASEN ASSOCIATES which results in damage to persons or property of any kind, Installer hereby agrees to defend, indemnify and hold harmless VENEKLASEN ASSOCIATES, its Agents, Principals, Employees and Consultants from and against any and all claims, including attorneys' fees caused by such failure to follow the plans and specifications prepared by VENEKLASEN ASSOCIATES, excepting only the damages to persons or property which are caused by the sole negligence or willful misconduct of VENEKLASEN ASSOCIATES.
   D. Drawings are diagrammatic and are intended to convey Scope of Work and to indicate general arrangement. There are not intended to show every detail including offset or fitting or every structural difficulty that may be encountered during the work. Except as otherwise indicated, locations of items are approximate only. Exact locations necessary to secure proper conditions and results must be determined at project site and must be approved by the Owner's representative.
   E. Except as otherwise indicated, make reasonable modifications in layout as needed to prevent conflict with other work or proper execution of work.
   F. Include work not usually shown or specified, but necessary for proper installation and operation of a system or piece of equipment in work.

BOX SCHEDULE

DEVICE ID	DESCRIPTION	BOX TYPE	BOX SIZE	INSTALL METHOD	ELEVATION
AIP/PSQ	AUDIO INPUT PANEL AND POWER SEQUENCER JUNCTION BOX	FSR WB-4G WITH COVER & KEY	8.9 x 8.9 x 3.75	WALL	8" ABOVE COUNTER
ALA	ASSISTIVE LISTENING ANTENNA	N/A	N/A	CEILING	N/A
ERK1	EQUIPMENT RACK	N/A	N/A	WALL	N/A
JB#	JUNCTION BOX	HANDHOLE BUILT INTO POLE BRACKET	N/A	INTEGRATED IN POLE BRACKET	SEE DETAIL ON AV6.1 AND AV6.2
WMA	WIRELESS MIC ANTENNA	N/A	N/A	CEILING	N/A

NOTE: CONTRACTOR IS TO PROVIDE BLANK PANELS FOR ALL BOXES THAT ARE DESIGNATED FOR FUTURE USE. BOXES THAT ARE ABLE TO ACCEPT STANDARD SIZE BLANK PANELS SHALL BE PROVIDED WITH SAME (SGMR, 2GMR, SWITCH BOXES, ETC). NON STANDARD SIZE BOXES (I.E. TOUCH PANELS) WILL BE PROVIDED WITH ANODIZED ALUMINUM BLANK PANELS. SEE SPECIFICATION FOR REQUIREMENTS (I.E. COLOR COORDINATION). CONTRACTOR TO LABEL ALL CONDUIT STUBS AND FUTURE BACK BOXES WITH PERMANENT MARKER. SEE SPECIFICATION FOR DETAILS.

SHEET INDEX

ADDENDUM 2 - 09/08/2020

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AGENCY REVIEW

LITTLE
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CLIENT NAME

OXNARD UNION HIGH SCHOOL DISTRICT

PROJECT NAME

RIO MRIO MESA HIGH SCHOOLDIUM
HOME BLEACHERS

545 CENTRAL AVENUE,
OXNARD, CA. 93036

CONSULTANT

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JAY R. TITTMANN
NO. C12605
REN. 11-30-21
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ISSUE FOR

DSA SUBMITTAL

ISSUE DATE

09/08/2020

REVISIONS

1 09/08/2020	ADDENDUM 2	

PROJECT TEAM

PRINCIPAL IN CHARGE:
JACK SHIMIZU

PROJECT LEADER:
PABLO AMEZQUITA

DESIGN TEAM:
VENEKLASEN ASSOCIATES

PROJECT NAME

RIO MESA HIGH SCHOOL
HOME BLEACHERS

PROJECT NO.

6121235310

SHEET TITLE

GENERAL NOTES AND
SHEET INDEX

SHEET NUMBER

(AV0.1) 1 AD2-AV1

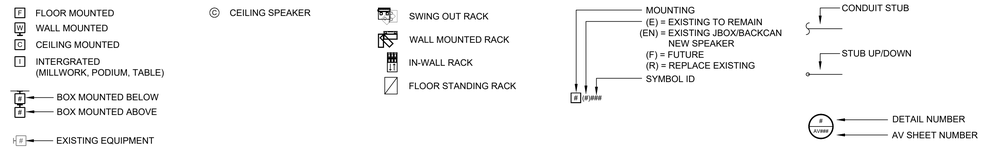
DEVICE / BOX ID

Device ID	Description	CPP	Central Paging Processor	GEQ	Graphic Equalizer	MPS	Motorized Projection Screen	RSRS	Rotating Sliding Rail System	TRC	Transceiver
1GMR	1 Gang Mud Ring	CPU	Central Processing Unit	GNM	Gooseneck Microphone	MR	Message Repeater	RSW	RGB Switcher	TS	Touch Screen
2GMR	2 Gang Mud Ring	CRC	Camera Remote Control			MRP	MD Recorder Player	RTP	Remote Truck Panel	TT	Turn Table
3DTV	3D Television	CRK	Control Rack	HDTV	High Definition Television	MSC	Main System Controller	RX	Receiver	TTP	Table Top Panel
3GMR	3 Gang Mud Ring	CS	Conference Station	HDW	Hardware	MSF	Master Fader			TV	Television
4GMR	4 Gang Mud Ring	CSF	Call Signal Flasher	HFS	High Frequency Speaker	MSP	Microphone Splitter	S	Speaker Level	TVP	TV Panel
		CT	Control	HHM	Hand Held Microphone	MSR	Microphone Splitter Rack	SA	Aquatic Speaker	TVT	TV/RF Tuner
A	Audio	CTM	Control Module	HPR	Headphone Remote Station	MSV	Media Server	SAN	Storage Area Network	TX	Transmitter
ABA	Audio Buffer Amplifier	CTN	Cable Tuner	HRB	Headset Remote Box	MSW	Matrix Switcher	SAT	Satellite Receiver		
AC	Audio Combiner	CTR	Controller	HS	Headset	MXP	Mixer Pre-Amplifier	SB	Bass Speaker	UBC	Unbalance to Balance Converter
ACM	Audio Card Module	CTS	Computer Training System	HTS	Home Theater System			SC	Ceiling Speaker	UC	Up Converter
ACN	Audio Control Network	CVM	Computer Video Monitor			NADU	Network Audio Distribution Amp	SCB	Cinema Speaker Bass	UCD	Unified Communication Device
ACR	Audio Control Relay			IAA	Integrated Audio Amplifier	NET	Network Outlet	SCD	Speaker Control Distribution	UP	Usher Panel
ACS	Audio Conferencing System	DA	Distribution Amp	IBP	Intercom Belt Pack	NHB	Network Hub	SCF	SC Fiber Connector	UPS	Uninterruptible Power Supply
ADA	Audio Distribution Amplifier	DAB	Digital Audio Bus	IBS	Intercom Base Station	NI	Network Interface	SCN	Cinema Speaker	USB	Univeral Serial Bus
ADB	Audio Distribution Box	DAO	Digital to Analog Output	IC	Intercom	NMCPU	Network Manager CPU	SCP	System Control Pad	USBX	Universal Serial Bus Extender
ADI	Analog to Digital Input	DAR	Digital Audio Recorder	ICS	Intercom Station	NSG	Noise Gate	SDA	SDI Distribution Amplifier		
ADK	Audio Ducker	DAS	Digital Audio Source	ID	Interactive Display	NSS	Network Source Switch	SDB	Speaker Distribution Box	V	Video
ADP	Adaptor	DAT	Digital Audio Tape Unit	IFC	Interface Card	NT	Network Terminator	SDD	Solid State Disk Dock	VC/SS	Volume Control / Selector Switch
AE	Audio Extractor	DB	Direct Box	IH	Intercom Handset	NWS	Network Switch	SE	Effects Speaker	VCA	Voltage Controlled Amplifier
AFT	AM/FM Tuner	DC	Document Camera	IHS	Intercom Head Set			SER	Serial	VCC	Video Conference Camera
AIM	Audio Input Module	DCA	Digital Controlled Amplifier	IMS	Intercom Main Station	OPJ	Optical Projector	SES	Sound Enhancement Speaker	VCM	Video Card Module
AIP	Audio Input Panel	DCC	Data Control Card	IOP	Input/Output Panel			SFF	Front Fill Speaker	VCR	Video Cassette Recorder
AIU	Analog Interface Unit	DCM	Digital Cart Machine	IPC	IP Camera	P	Power	SG	Ground Speaker	VCS	Video Conferencing System
AL	Audio Left	DCN	Divider Combiner Network	IR	Infrared	PA	Power Amplifier	SGEN	Sync Generator	VCU	Video Conferencing Unit
ALA	Assistive Listening Antenna	DCPU	Digital Central Processing Unit	IRB	IR Broadcast	PAD	Pad	SGMR	Single Gang Mud Ring	VD	Video Display
ALR	Assistive Listening Receiver	DCR	Digital Capture Recorder	IRE	IR Emitter	PB	Push Button	SGP	Signal Processor	VDA	Video Distribution Amplifier
ALS	Assistive Listening System	DD	Dimmer Doubler	IRM	IR Modulator	PBR	Play Back Rack	SGS	Signage Server	VDR	Video Disk Recorder
ALT	Assistive Listening Transmitter	DDL	Digital Delay	IRR	IR Receiver	PC	Personal Computer	SH	Horn Speaker	VE	Video Encoder
AM	Audio Monitor	DEB	De-Embedder	IRS	Intercom Remote Station	PCB	Patch Cable	SHF	Shelf	VEH	Video Encoder Hub
AMS	Audio Monitor Speaker	DEC	Decoder	IRT	IR Transmitter	PCC	Personal Computer Control	SI	Sensor Interface	VF	View Finder
AMX	Auto Mixer	DEQ	Dynamic Equalizer	ISDN	Integrated Service Digital Network	PCD	Power Conditioner	SIS	Set Integrated Speaker	VFX	Video Effects Processor
ANT	Antenna	DFR	Digital File Recorder	ITR	Isolation Transformer	PCLD	Projector Controller With Line Doubler	SIW	In-Wall Speaker	VIC	Visual Concert
AOB	Analog Output Bridge	DIM	Dimmer Module			PCT	Portable Cart	SJB	Speaker Junction Box	VIP	Video Input Panel
AOP	Audio Output Panel	DIU	Digital Interface Unit	JB	Junction Box	PD	Plasma Display	SLA	Speaker Line Array	VL	Voice Lift
AP	Access Point	DJCC	Digital Joystick Camera Control			PDL	Plasma Display Lift	SMP	Stage Manager Panel	VLCF	Voice Lift Card Cage Frame
APB	Audio Patch Bay	DM	Digital Mixer	KB	Keyboard	PEC	Portable Equipment Case	SMR	Stage Manager Rack	VM	Video Monitor
APD	Antenna Power Distribution	DMR	Dimmer Rack	KM	Keyboard & Mouse	PEQ	Parametric Equalizer	SMS	Scaling Matrix Switcher	VMS	Video Matrix Switcher
APM	Audio Program Monitor	DMX	DMX	KMI	Keyboard & Mouse Interface	PGM	Program Monitor	SMSW	Satellite Multiswitch	VOL	Volume Control
AR	Audio Right	DMXC	DMX Control Cable	KMK	Keyboard & Mouse Kit	PGS	Paging System	SMX	Splitter Mixer	VOP	Voice Over Paging Module
ASP	Antenna Splitter	DMXN	DMX Node	KVM	Keyboard, Video & Mouse	PI	Power Injector	SO	Speaker Overhead	VPB	Video Patch Bay
ASV	Audio Server	DPB	Disc Publisher	KVME	Keyboard, Video & Mouse Extender	PJL	Projector Lift	SP	Speaker	VPJ	Video Projector
ASW	Audio Switcher	DRC	Door Control			PJS	Projection Screen	SPCL	Speaker Cluster	VPJRM	Video Projector Rotating Mount
AT	Audio Tie Line	DREC	Digtial Recorder	LAN	Local Area Network	PM	Paging Microphone	SPG	Program Speaker	VPM	Video Program Monitor
ATI	Audio Teleconference Interface	DSD	Data Stroage Device	LC	Lighting Console	PMIC	Presentation Microphone	SPJ	Slide Projector	VPS	Video Production Switcher
ATN	Attenuator	DSP	Digital Signal Processor	LD	Line Doubler	PMP	Podium Microphone Panel	SPL	Splitter	VSC	Video Scan Converter
AV	Audio Video	DSS	Digital Satellite System	LDP	Laser Disc Player	PNWS	Power Network Switch	SPN	Stage Panel	VSL	Video Scaler
AVC	Auto Volume Controller	DTP	Digital Twisted Pair	LDR	Line Driver	POD	Podium	SPP	Speaker Patch Panel	VSP	Video Signal Processor
AVD	Audio Video Distribution	DVC	DVD/VCR Combo	LEC	Lectern	PP	Podium Panel	SPR	Speaker Processor	VSPC	Video Screen Panel Control
AVI	Audio Video Interface	DVD	Digital Versatile Device	LED	Light Emitting Panel	PPS	Phantom Power Supply	SPT	Speaker Portable	VSS	Video System Switcher
AVIM	Audio Video Input Module	DVHS	Digital Cassette Recorder	LFS	Low Frequency Speaker	PRE	Pre Amplifier	SRA	Stereo Receiver Amp	VSV	Video Server
AVN	Audio Video Network	DVP	Digital Video Processor	LI	Lighting Interface	PRK	Portable Rack	SS	Surround Sound Speaker	VSW	Video Switcher
AVP	Audio Video Panel	DVR	Digital Video Recorder	LL	Line Level	PS	Power Supply	SSA	Solid State Audio Source	VT	Video Tie Line
AVR	Audio Video Router	DVS	Digital Video Scaler	LM	Line Module	PSB	Powered Subwoofer	SSF	Sliding Shelf	VW	Video Wall
AXF	Auto Transformer	DWR	Drawer	LP	Lectern Panel	PSC	Projection Screen Control	SSV	Streaming Server	VWP	Video Wall Processor
				LPM	Lapel Microphone	PSD	Paging Station Desk Mount	SSW	Serve Switch		
BAT	Battery	EBD	Embedder	LPT	Laptop	PSLR	Program Select & Level Remote	STB	Stage Box	WAA	Wireless Antenna Amplifier
BC	Battery Charge	EBF	Expanded Beam Fiber Connector	LTF	Line Transformer	PSP	Powered Speaker	SUM	Summing Amplifier	WAD	Wireless Antenna Distribution
BDP	Blu-Ray Disc Player	EC	Expansion Card	LTP	LCD Touch Panel	PSR	Paging Station Rack Mount	SV	S-Video	WAS	Wireless Antenna Splitter
BOB	Break Out Box	EDB	Electrical Distribution Box	LVR	Line Voltage Regulator	PSW	Paging Station Wall Mount	SVC	Slide to Video Converter	WB	White Board
BP	Belt Pack	EFX	Effects Processor			PT	Poke-Through	SVD	Signage Video Display	WBC	Window Blind Control
		ELTC	Emergency Lighting Transfer Cabinet	MA	Mixer Amplifier	PTC	Pan & Tilt Camera	SVDA	S-Video Distribution Amp	WBP	Wireless Belt Pack
C	Conduit	EN	Ethernet	MAL	Media Archive Library	PVM	Preview Video Monitor	SVHS	S-Video Cassette Recorder	WC	Word Clock
CAM	Video Camera	ENC	Encoder	MATV	Master Antenna Television	PWS	Power Strip	SVMS	S-Video Matrix Switcher	WER	Wireless Ethernet Router
CAS	Cassette Deck	ENG	Electronic News Gathering	MCS	Media Collaboration System	PXS	Proximity Switch	SVS	S-Video Switcher	WFM	Waveform Monitor
CASR	Cassette Deck Recorder	EQ	Equalizer	MCT	Main Cabler Tray	PZM	Pressure Zone Microphone	SVSS	S-Video Separator Switcher	WGA	Wireless Gateway Antenna
CATV	Community Antenna Television	ERK	Equipment Rack	MCV	Media Converter			SW	Wall Mounted Speaker	WGW	Wireless Gateway
CBT	Cable Tray	ERT	Ethernet Router	MD	Mini Disc	RAS	RGB Auto Switcher	SWG	Switch Glass	WIA	Wireless Intercom Antenna
CC	Contact Closure	EXG	Expander/Gate	MDCF	Matrix Digital Card Frame	RC	Remote Control	SWH	Sound Web Hub	WLM	Wireless Microphone
CCC	Contact Closure Card	EXT	Extender	MDR	Motion Detector	RDA	RGB Distribution Amp	SYSW	System Switcher	WLU	Wireless Unit
CCF	Card Cage Frame			MFP	Microphone Facility Panel	REC	Record			WM	Wireless Mouse
CCU	Camera Control Unit	F	Fiber	MFS	Mid Frequency Speaker	REV	Reverb	TAM	Telephone Access Module	WMA	Wireless Mic Antenna
CDB	Crestron Distribution Block	FB	Floor Box	MI	Midi Interface	RF	Radio Frequency	TB	Terminal Box	WMAP	Wireless Mic Antenna Panel
CDC	Compact Disc Changer	FBS	Feed Back Suppresser	MIC	Microphone	RFA	RF Amplifier	TBC	Time Base Corrector	WMG	Wire Manager
CDP	Compact Disc Player	FLM	Floor Monitor	MIDI	MIDI	RFAS	RF Antenna Splitter	TBU	Tape Backup	WMKA	Wireless Mic Keyboard Antenna
CG	Character Generator	FMA	FM Antenna	MIX	Mixer	RFDA	RF Distribution Amplifier	TC	Programmable Time Clock	WMKS	Wireless Mouse Keyboard Antenna
CIM	Control Interface Module	FMR	FM Receiver	MKB	Monitor Keyboard Sliding Shelf	RFS	RF Splitter	TCB	Terminal Cabinet	WMR	Wireless Mic Receiver
CIU	Computer Interface Unit	FMT	FM Tuner	MM	Microphone Module	RFT	RF Transmitter	TCR	Transcoder	WP	Wall Plate
CL	Camera Lens	FMTA	FM Transmitting Antenna	MMC	Media Matrix Computer	RFTA	RF Transmitting Antenna	TCS	Teleconferencing System	WPG	Wireless Presentation Gateway
CM	Card Module	FMTR	FM Transmitter	MMP	Monitor Mix Panel	RGB	RGB/HV	TEL	Telephone Output	WPN	Wall Panel
CME	Control Module Extended	FOH	Front Of House	MMPA	Measurement Mix Pre Amplifier	RIP	Rack Input Panel	TI	Telephone Interface	WSI	Work Station Interface
CMIC	Ceiling Microphone	FP	Facility Panel	MNP	Masking Noise Processor	RK	Rack Lights	TJB	Transformer Junction Box	WTA	Wireless Touch Panel Adapter
CMP	CD/Media Player	FPL	Floor Panel	MOB	Monitor Out Box	RKM	Rack Mount	TM	Table Microphone	WTP	Wireless Touch Panel
CN	CobraNet	FPP	Fiber Patch Panel	MOD	Modulator	RM	Relay Module	TMB	Table Microphone Box	WTPR	Wireless Touch Panel Receiver
CNT	Control Network	FREC	Fiber Receiver	MON	Monitor	RMS	RGB Matrix Switcher	TP	Twisted Pair		
COD	Codec Unit	FSC	File System Controller	MOU	Mouse	RPM	Retractable Projector Mount	TPC	Touch Panel Control	XFR	Transformer
CON	Converter	FT	Fiber Tie Line	MP	Media Panel	RPN	Rack Panel	TPM	Telepromptor	XKVM	Extended KVM
CP	Conduit Pocket	FTP	Fiber Tie Panel	MPA	Microphone Pre-Amplifier	RPT	Repeater	TPR	Twisted Pair Receiver	XLRP	XLR Panel
CPIS	Control Plug In Station	FW	Firewire	MPL	Music Player	RSC	RGB System Controller	TPT	Twisted Pair Transmitter		
CPL	Compressor/Limiter			MPN	Monitor Panel	RSI	RGB Switching Interface	TR	Talent Receiver		

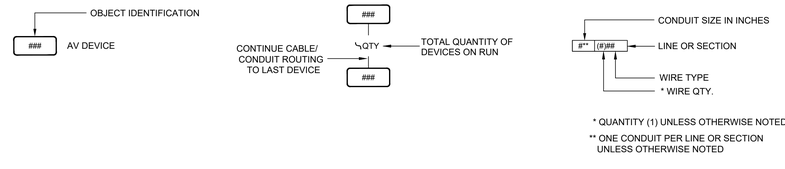
ABBREVIATIONS

(E)###	Existing	CLG	Ceiling			NTS	Not To Scale		
(F)	Future	CM	Construction Manager	GC	General Contractor			SECT	Section
		CO	Conduit Only			OC	On Center	SHP	Shielded Pair
A 0	Above Zero Floor Level			HR	Home Run	OD	Outer Diameter	SIM	Similar
ACT	Above Counter Top	DIA	Diameter			OFCI	Owner Furnished Contractor Installed	SM	Stage Manager
AFB	Above Floor Below	DR	Door	IW	In Wall	OFE	Owner Furnished Equipment	STD	Standard
AFC	Above Finished Ceiling					OFOI	Owner Furnished Owner Installed		
AFF	Above Finished Floor	E.C.	Empty Conduit	LP	Lightning Protector			TPD	Tripod
AH	Above Header	EC	Electrical Contractor	LRR	Lightning Room Rack	P/O	Part Of	TST	Test Set
AS	Above Slab	EL	Elevation	LTG	Lighting	PF	Press Feed	TYP	Typical
		ELEC	Electrical			POC	Point of Connection		
BFC	Below Finished Ceiling	EOL	End Of Line	MISC	Miscellaneous	PRG	Program	UBC	Uniform Building Code
BGM	Background Music	EQUIP	Equipment	MOM	Momentary	PROJ	Project	UON	Unless Otherwise Noted
BOH	Back Of House			MTD	Mounted	PSCH	Project Standard Control Height		
BTU	British Thermal Units	FAN	Fan Panel	MTF	Mounting Termination Fabrication	PSRH	Project Standard Receptacle Height	VIF	Verify In Field
		FBO	Furnished By Owner	MTL	Metal	PSSH	Project Standard Switch Height		
CAB	Cabinet	FCA	Finished Ceiling Above			PST	Pull String	WP	Weather Proof
CATV	Cable TV	FIN	Finished	NC	Normally Closed	PWR	Power		
CBC	California Building Code	FOH	Front Of House	NIC	Not In Contract				
CL	Center Line	FSF	Folding Shelf	NO	Normally Open	RCP	Reflected Ceiling Plan		

FACILITY INPUT SYMBOL SCHEDULE AND DESCRIPTIONS FOR FLOOR AND CEILING PLANS



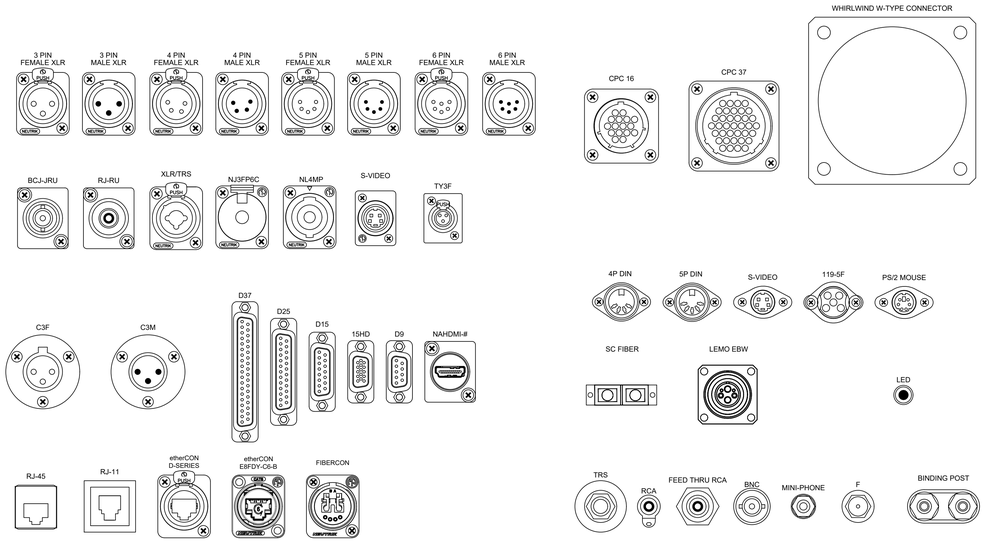
RISER SYMBOL SCHEDULE AND DESCRIPTIONS



* QUANTITY (1) UNLESS OTHERWISE NOTED

** ONE CONDUIT PER LINE OR SECTION UNLESS OTHERWISE NOTED

FACILITY PANEL CONNECTOR LEGEND



WIRE SCHEDULE

NOTES:
1. CONTRACTOR TO USE PLENUM RATED CABLE WHERE REQUIRED BY CODE.
2. WIRING TO BE INSTALLED BY AV CONTRACTOR

TYPE	APPLICATION	DESCRIPTION (FIXED INSTALL CABLE)	O.D.	MANUF.	PART NO.
A1	AUDIO ANALOG/DIGITAL CABLE	ANALOG/DIGITAL AUDIO CABLE, MICROPHONE AND LINE LEVEL WIRING, LESS THAN +24 dBu, FROM 20Hz TO 20kHz, 24 AWG, IMPEDANCE 110Ω ±20%, CAPACITANCE 26pF/FT, 100% SHIELDED, STRANDED TWISTED PAIR	0.177	BELDEN	1800B
C2	CONTROL/PWR SUPPLY	CONTROL CABLE AC/DC, 22 AWG, 2 PAIR, TWISTED, TINNED COPPER	0.233	BELDEN	9744
D3	CAT 6 DATA NETWORK CABLE	CATEGORY 6 DATA CABLE, 23 AWG, UNBONDED PAIR CABLES, SOLID BARE COPPER, MAX. ATTENUATION 28.3dB/100m @ 200MHz, MAX DELAY SKEW 45ns/100 m , NOM MUTUAL CAPACITANCE @ 1KHz 15pF/FT, MAX DC RESISTANCE 8.2Ω/100m	0.220	BELDEN	2412
R1	LOW LOSS 50Ω WIRELESS	RG58C/U, 20 AWG, 50Ω, 95% BRAIDED SHIELD, NOM ATTN -21.5dB/100ft @ 1GHz	0.195	BELDEN	8262
S4	SPEAKER	LOUDSPEAKER LEVEL OR CIRCUIT WIRING GREATER THAN +24dBu, FROM 20Hz TO 20kHz, 10 AWG, STRANDED, TWISTED PAIR WITH PVC JACKET.	0.356	BELDEN	5T00UP

AGENCY REVIEW

LITTLE
DIVERSIFIED ARCHITECTURAL CONSULTING
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Newport Beach, CA. 92660
T: 949.698.1400
www.littleonline.com

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CLIENT NAME

OXNARD UNION HIGH SCHOOL DISTRICT

PROJECT NAME

RIO MRIO MESA HIGH SCHOOLDIUM
HOME BLEACHERS

545 CENTRAL AVENUE,
OXNARD, CA. 93036

CONSULTANT

Veneklasen Associates
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SEAL

ISSUE FOR
DSA SUBMITTAL

ISSUE DATE
09/08/2020

REVISIONS

1 09/08/2020	ADDENDUM 2

PROJECT TEAM

PRINCIPAL IN CHARGE:
JACK SHIMIZU

PROJECT LEADER:
PABLO AREJZQUITA

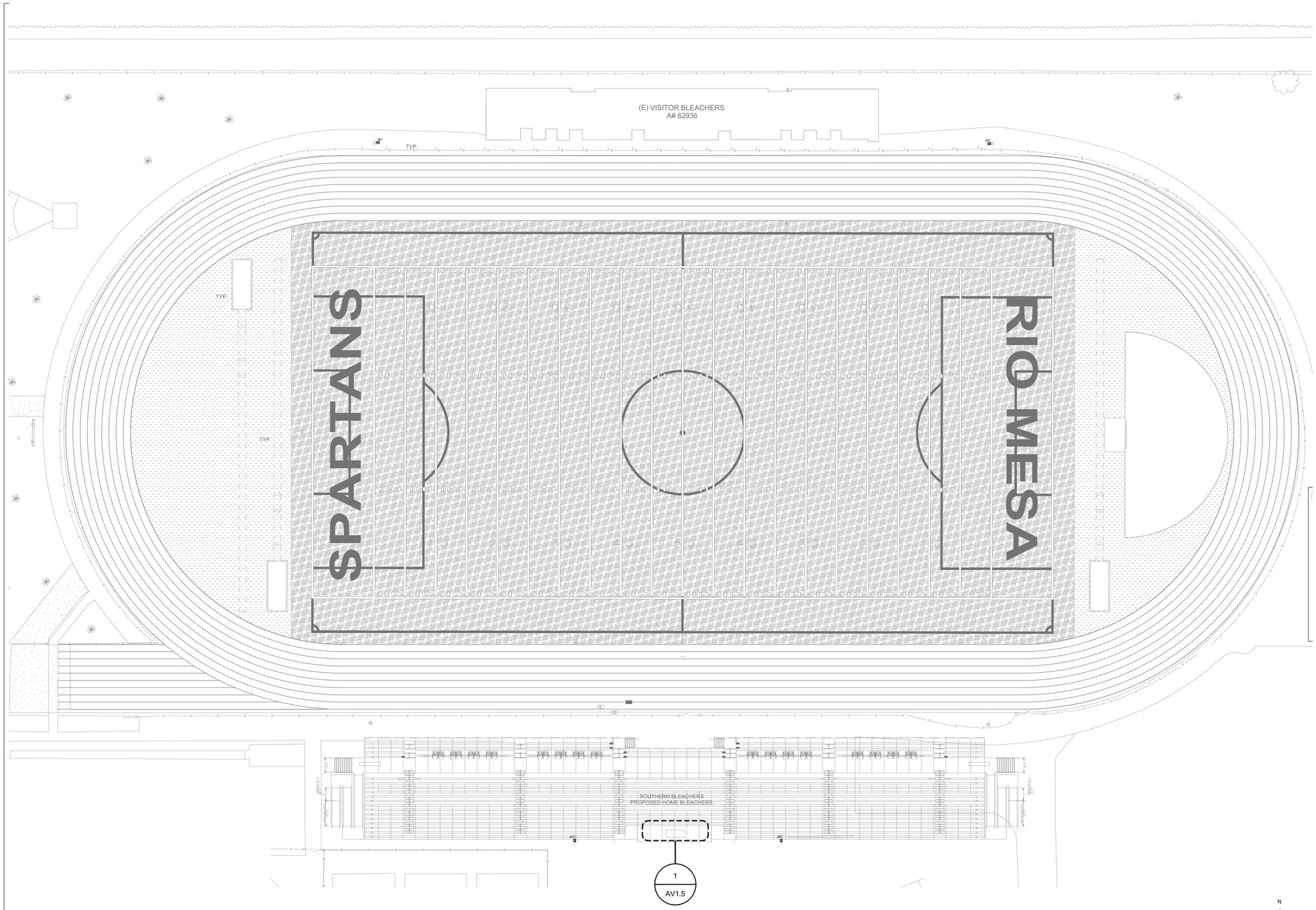
DESIGN TEAM:
VENEKLASEN ASSOCIATES

PROJECT NAME
RIO MESA HIGH SCHOOL
HOME BLEACHERS

PROJECT NO.
6121235310

SHEET TITLE
ABBREVIATIONS NOTES
AND SYMBOLS

SHEET NUMBER
(AV0.2) AD2-AV2



SITE - OVERALL SITE PLAN - BW 10 08 2019 (1 / AV1.1)
1" = 20'-0"

N

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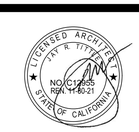
SEAL



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HOME BLEACHERS

PROJECT NO.

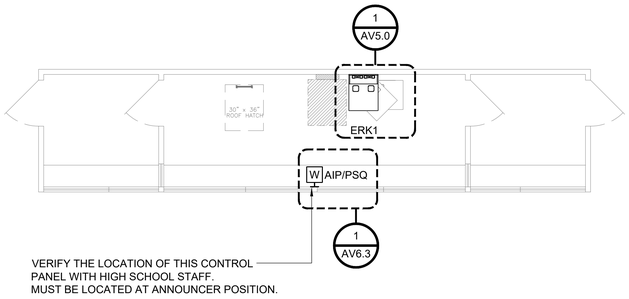
6121235310

SHEET TITLE

ENLARGED AV SITE PLAN

SHEET NUMBER

(AV1.1) 2 AD2-AV3



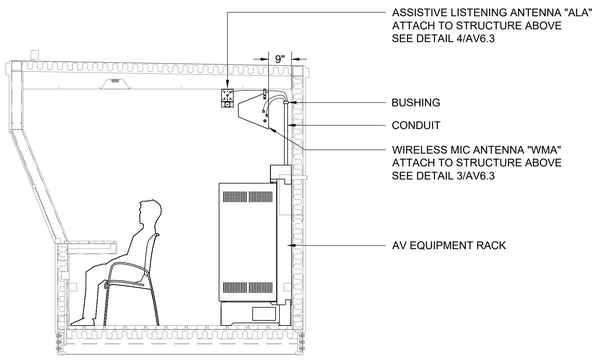
NOTE:
FIELD VERIFY CONDITIONS
AND CONFIRM ALL LOCATIONS
WITH CLIENT & ARCHITECT PRIOR TO INSTALLATION

N

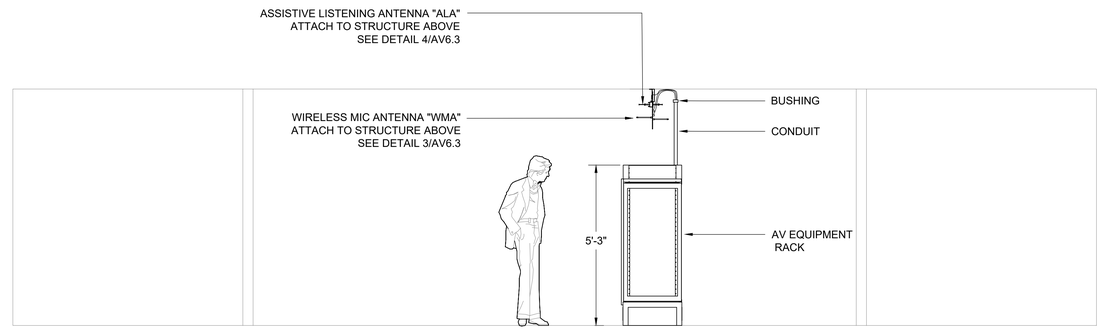
PRESS BOX - ENLARGED AV LAYOUT

SCALE:
1/4" = 1'-0"

1



SECTION



FRONT VIEW

PRESS BOX SECTION - ENLARGED AV LAYOUT

SCALE:
1/2" = 1'-0"

2

AGENCY REVIEW

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SEAL

LICENSED ARCHITECT
MATTHEW K. TITTLE
No. C12935
REN. 11-30-21
STATE OF CALIFORNIA

ISSUE FOR
DSA SUBMITTAL

ISSUE DATE
09/08/2020

REVISIONS

1 09/08/2020	ADDENDUM 2	

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DESIGN TEAM:
VENEKLASEN ASSOCIATES

PROJECT NAME

RIO MESA HIGH SCHOOL
HOME BLEACHERS

PROJECT NO.

6121235310

SHEET TITLE

AV ENLARGED LAYOUTS

SHEET NUMBER

(AV1.5) 2 AD2-AV4

SPEAKERS

CEILING SPEAKER

CEILING SPEAKER W/TRANSFORMER

MONITOR SPEAKER

HORN

OVERHEAD SPEAKER

OVERHEAD SPEAKER W/TRANSFORMER

MID & LOW SPEAKER

2 WAY SPEAKER

3 WAY SPEAKER

HORN W/TRANSFORMER

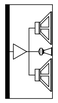
SINGLE SUB WOOFER

DUAL SUB WOOFER

QUAD SUBWOOFER

SELF POWERED SPEAKER

3-WAY POWERED SPEAKER



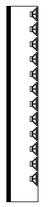
3-WAY SPEAKER

IN-WALL SPEAKER

PLASMA SPEAKER

POWERED LINE ARRAY SPEAKER

LINE ARRAY SPEAKER



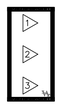
PLANTER SPEAKER

AMPLIFIERS

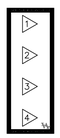
SINGLE CHANNEL

DUAL CHANNEL

3 CHANNEL



4 CHANNEL



BRIDGE

TOP HALF

MIDDLE HALF

BOTTOM HALF

VIDEO

VIDEO PROJECTOR

PAN & TILT CAMERA

VIDEO CAMERA

DOCUMENT CAMERA

VIDEO / TV DISPLAY

PROJECTION SCREEN

SATELLITE

DEVICES

DEVICE

TOP HALF

BOTTOM HALF

MIDDLE HALF

JUNCTION BOXES

J-BOX

MISCELLANEOUS SYMBOLS

FULL COMPUTER

COMPUTER MONITOR

CPU

KEYBOARD

MOUSE

LAPTOP PC

KEYBOARD VIDEO MOUSE

WIRELESS MOUSE

TOUCH PANEL

WIRELESS TOUCH PANEL

DOCK ABLE TOUCH PANEL

TABLE TOP MICROPHONE

HAND HELD MICROPHONE

WIRELESS HAND HELD MICROPHONE

LAVALIERE MICROPHONE

CEILING MICROPHONE

GOOSENECK MICROPHONE

PAGING MICRHOPHONE

BELT PACK

HEADSET BELTPACK

HEADSET PLUGIN

NECK LOOP

ANTENNA

INFRA RED EMITTER

MICROPHONE ARRAY

ATTENUATOR

TRANSFORMER

10K POT

LIGHTING PROTECTION

LINE CONVENTIONS

AREA

AUDIO LINE

CONTROL LINE

DATA

INTERCOM

MULTI

SPEAKER

RACK

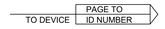
RF

VIDEO LINE

WIRE BUSS

'Y' CONNECTION

DRAWING AND SIGNAL NAVIGATION



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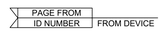


PAGE FROM

FROM EXTERNAL SYSTEM

TO EXTERNAL SYSTEM

AUDIO PATCH POINTS

HALF NORMAL BRIDGING

HALF NORMAL

FULL NORMAL

IN (LEFT ON PATCH BAY)

OUT (LEFT ON PATCH BAY)

I/O CONNECTIONS

SCREW TERMINAL

TERMINAL DEVICE INPUT

TERMINAL DEVICE OUTPUT

CONNECTOR/CONNECTION POINT

WIRING KEY

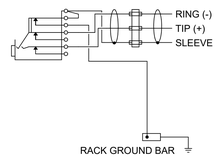
SCALE: NTS

2

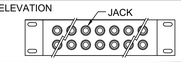
JACK SINGLE, MICROPHONE TRUNK

GRAPHIC SYMBOL

SCHEMATIC DIAGRAM



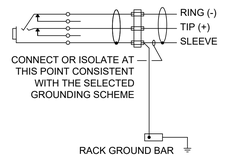
JACK BAY ELEVATION



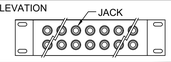
JACK SINGLE

GRAPHIC SYMBOL

SCHEMATIC DIAGRAM



JACK BAY ELEVATION

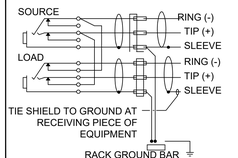


JACK PAIR

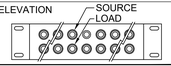
GRAPHIC SYMBOL

HALF NORMAL (MONITOR ON SOURCE, BREAK ON LOAD)

SCHEMATIC DIAGRAM



JACK BAY ELEVATION

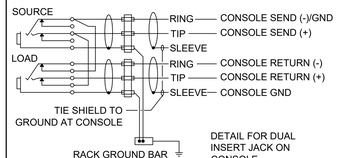


JACK PAIR, CONSOLE INSERT

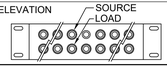
GRAPHIC SYMBOL

HALF NORMAL (MONITOR ON SOURCE, BREAK ON LOAD)

SCHEMATIC DIAGRAM



JACK BAY ELEVATION

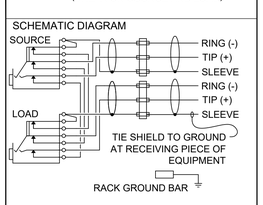


JACK PAIR, MICROPHONE TRUNK

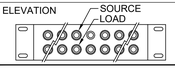
GRAPHIC SYMBOL

THROUGH NORMAL BOTH WAYS (BREAK ON SOURCE AND LOAD)

SCHEMATIC DIAGRAM



JACK BAY ELEVATION

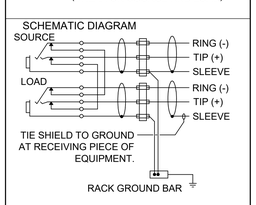


JACK DOUBLE

GRAPHIC SYMBOL

THROUGH NORMAL BOTH WAYS (BREAK ON SOURCE AND LOAD)

SCHEMATIC DIAGRAM



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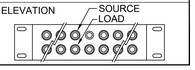
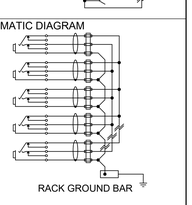


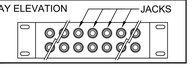
JACK MULTIPLE, (MULT)

GRAPHIC SYMBOL

SCHEMATIC DIAGRAM



JACK BAY ELEVATION

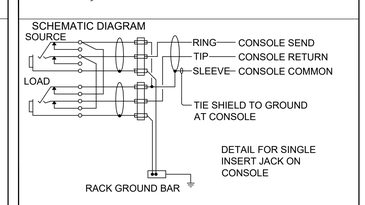


JACK PAIR, CONSOLE INSERT

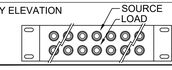
GRAPHIC SYMBOL

HALF NORMAL (MONITOR ON SOURCE, BREAK ON LOAD)

SCHEMATIC DIAGRAM



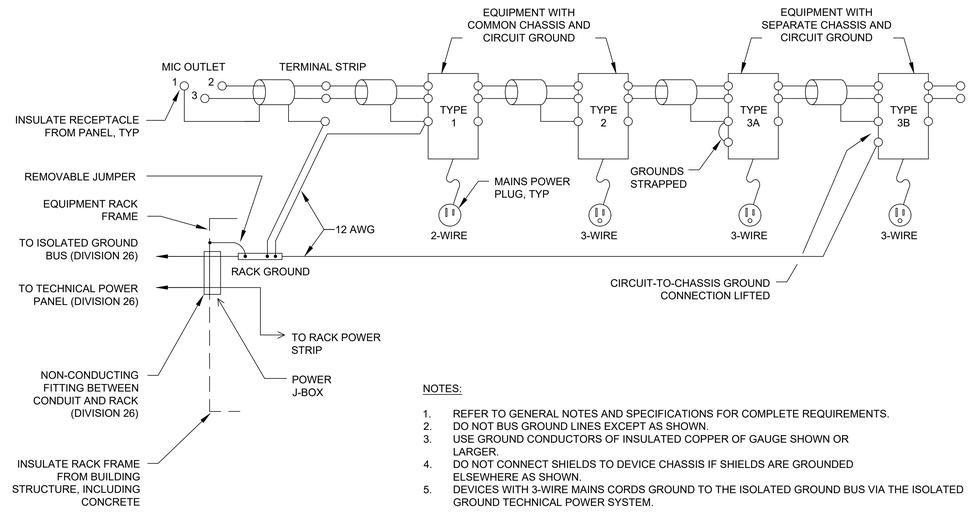
JACK BAY ELEVATION



GROUNDING DIAGRAM SCHEMES

SCALE:

3



NOTES:

1. REFER TO GENERAL NOTES AND SPECIFICATIONS FOR COMPLETE REQUIREMENTS.
2. DO NOT BUS GROUND LINES EXCEPT AS SHOWN.
3. USE GROUND CONDUCTORS OF INSULATED COPPER OF GAUGE SHOWN OR LARGER.
4. DO NOT CONNECT SHIELDS TO DEVICE CHASSIS IF SHIELDS ARE GROUNDED ELSEWHERE AS SHOWN.
5. DEVICES WITH 3-WIRE MAINS CORDS GROUND TO THE ISOLATED GROUND BUS VIA THE ISOLATED GROUND TECHNICAL POWER SYSTEM.

SYMBOL KEY

SCALE: NTS

1

GROUNDING DETAIL

SCALE: NTS

4

AGENCY REVIEW

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CLIENT NAME

OXNARD UNION HIGH SCHOOL DISTRICT

PROJECT NAME

RIO MRIO MESA HIGH SCHOOLDIUM
HOME BLEACHERS

545 CENTRAL AVENUE,
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ISSUE DATE
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REVISIONS

1 09/08/2020	ADDENDUM 2	

PROJECT TEAM

PRINCIPAL IN CHARGE:
JACK SHIMIZU

PROJECT LEADER:
PABLO AMEZQUITA

DESIGN TEAM:
VENEKLASEN ASSOCIATES

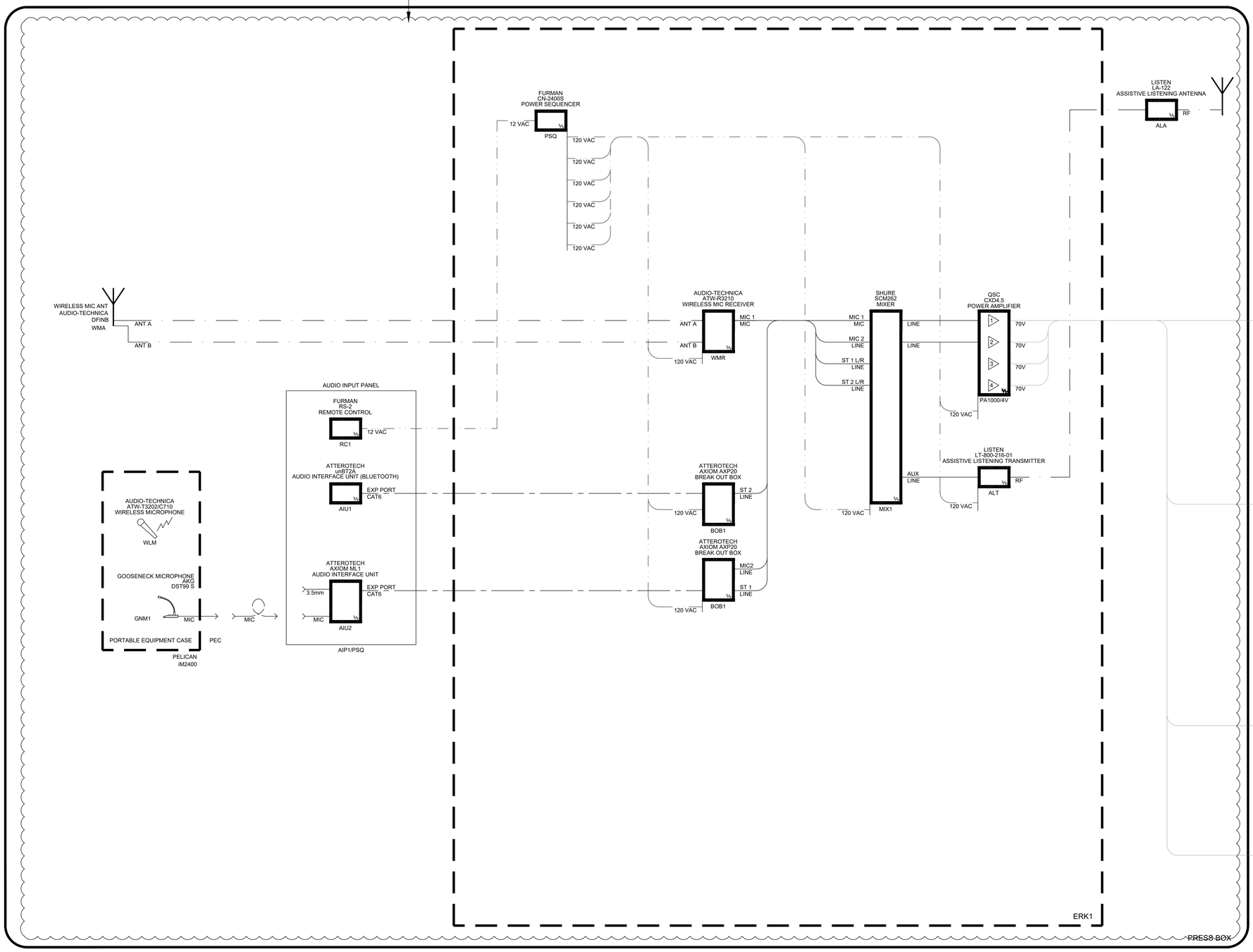
PROJECT NAME
RIO MESA HIGH SCHOOL
HOME BLEACHERS

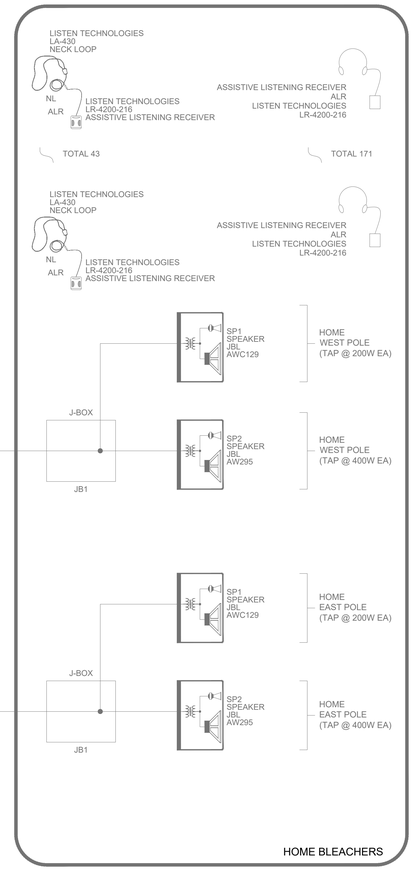
PROJECT NO.
6121235310

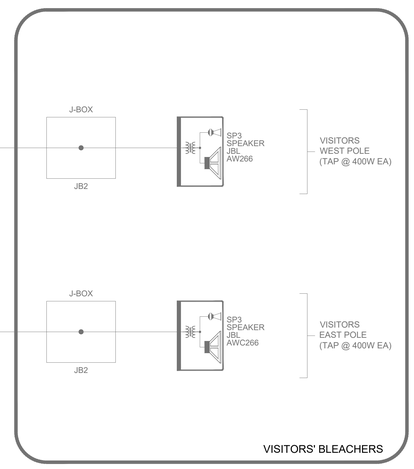
SHEET TITLE
WIRING SCHEME AND SYMBOL KEY

SHEET NUMBER
(AV4.0) AD2-AV5

EXISTING EQUIPMENT IS TO BE REMOVED, STORED, AND RE-INSTALLED
PER SECTION 27 41 26 INTEGRATED AUDIO SYSTEMS AND EQUIPMENT ADDENDUM 2.







ONELINE DIAGRAM

SCALE: NTS

1

(AV4.1) AD2-AV6

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1 09/08/2020	ADDENDUM 2	

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PABLO AMEZQUITA

DESIGN TEAM:
VENEKLASEN ASSOCIATES

PROJECT NAME

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HOME BLEACHERS

PROJECT NO.

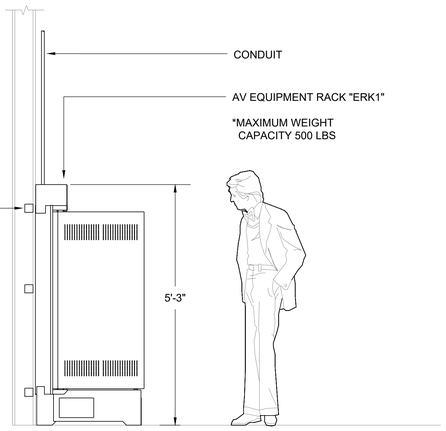
6121235310

SHEET TITLE

AV ONELINE DIAGRAMS

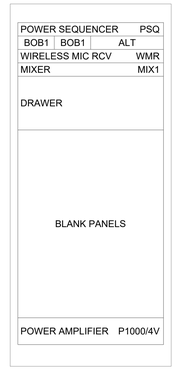
SHEET NUMBER

(AV4.1) AD2-AV6



NOTE:
THESE PLANS ARE CONCEPTUAL ONLY. THEY MUST BE
FULLY ENGINEERED BY A LICENSED STRUCTURAL ENGINEER

TYPICAL WALL MOUNTED AV EQUIPMENT RACK DETAIL | SCALE: NTS | 1



AV EQUIPMENT RACK "ERK1" ELEVATION | SCALE: NTS | 2

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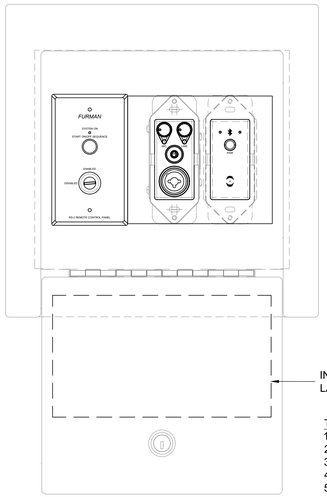
HOME BLEACHERS

PROJECT NO.
6121235310

SHEET TITLE
AV TYPICAL SEISMIC AND
GROUNDING DETAILS

SHEET NUMBER
(AV5.0) 2 AD2-AV7



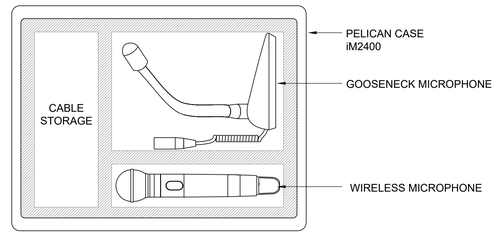
INSTRUCTIONS TO THE THE SYSTEM ARE TO BE LAMINATED ON INSIDE COVER:

To turn system ON
1. Connect desktop microphone to microphone panel.
2. (Optional) Connect portable audio player via 3.5mm cable.
3. Turn key to “ENABLE.”
4. Press “START ON/OFF SEQUENCE”
5. (Optional Bluetooth) Connect portable audio player by holding down the “Pair” button.
6. Adjust mic volume via upper left knob.
7. Adjust portable device volume via upper right knob.
8. Adjust Bluetooth device's volume accordingly.

To turn system OFF
1. Press “START ON/OFF SEQUENCE”
2. Turn key to “DISABLE.”

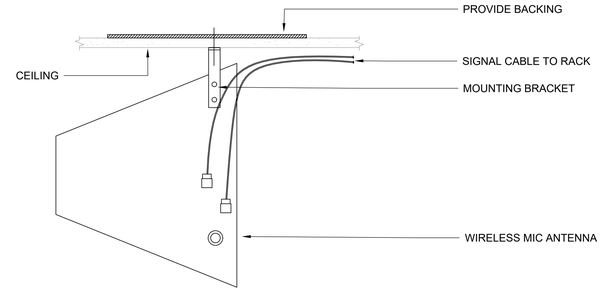
NOTE:
VERIFY THE LOCATION OF THIS CONTROL PANEL WITH HIGH SCHOOL STAFF.
MUST BE LOCATED AT ANNOUNCER POSITION.

AUDIO INPUT PANEL "AIP/PSQ" DETAIL | SCALE: NTS | 1

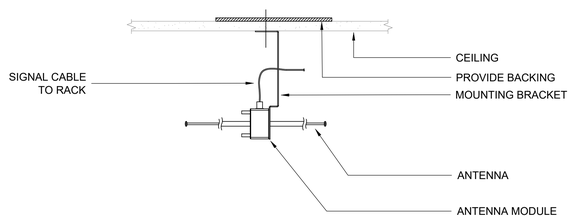


TOP VIEW

PELICAN CASE FOR MICROPHONES | SCALE: NTS | 2



TYPICAL WIRELESS MIC ANTENNA "WMA" MOUNTING DETAIL | SCALE: NTS | 3



TYPICAL ASSISTIVE LISTENING ANTENNA "ALA" MOUNTING DETAIL | SCALE: NTS | 4

AD1-AV14

AGENCY REVIEW

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VENEKLASEN ASSOCIATES

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HOME BLEACHERS

PROJECT NO.
6121235310

SHEET TITLE
AV DETAILS

SHEET NUMBER
(AV6.3)
AD2-AV8