ANDREW HILL HIGH SCHOOL GYM WINDOW COVERINGS

3200 SENTER ROAD, SAN JOSE, CA 95111

EAST SIDE UNION HIGH SCHOOL DISTRICT

VICINITY MAP

SCOPE OF WORK

The following is a brief description of the scope of work. Contractor shall determine/verify the entire scope as shown in the Construction Documents (Drawings and Specifications) prior to submitting bids.

INSTALLATION OF MOTORIZED ROLLER WINDOW SHADES, INCLUDING ALL ELECTRICAL CONNECTIONS.

GOVERNING CODES

PARTIAL LIST OF APPLICABLE CODES AS OF JANUARY 1, 2014

1. 2013 California Administrative Code, Part 1, Title 24 C.C.R.
2. 2013 California Building Code (CBC), Part 2, Title 24 C.C.R. (2012 International Building Code Volumes 1-2 and 2013 Amendments)
3. 2013 California Electrical Code (CEC), Part 3, Title 24 C.C.R. (2011 National Electrical Code and 2013 Amendments)
4. 2013 California Mechanical Code (CMC), Part 4, Title 24 C.C.R. (2012 Uniform Mechanical Code and 2013 Amendments)
5. 2013 California Pl,umbing Code (CPC), Part 5, Title 24 C.C.R. (2012 Uniform Plumbing Code and 2013 Amendments)
6. 2013 California Energy Code (CEC), Part 6, Title 24 C.C.R.
7. 2013 California Fire Code, Part 9, Title 24 C.C.R. (2012 International Fire Code and 2013 Amendments)
8. 2013 California Green Building Standards Code, Part 11, Title 24 C.C.R.
9. 2013 California Reference Standards, Part 12, Title 24 C.C.R.
10. Title 19 C.C.R., Public Safety, State Fire Marshall Regulations

PARTIAL LIST OF APPLICABLE STANDARDS

NFPA 13	Automatic Fire Sprinklers	2013 Edition
NFPA 14	Standpipe Systems	2013 Edition
NFPA 17	Dry Chemical Extinguishing Systems	2013 Edition
NFPA 17a	Wet Chemical Systems	2013 Edition
NFPA 20	Stationary Pumps	2013 Edition
NFPA 22	Water Tanks for Private Fire Protection	2013 Edition
NFPA 24	Private Fire Mains	2013 Edition
NFPA 72	National Fire Alarm Code	2013 Edition
NFPA 80	Fire Doors and Other Opening Protectives	2013 Edition
NFPA 92	Standard for Smoke Control Systems	2012 Edition
NFPA 253	Critical Radiant Flux Floor Covering Systems	2006 Edition
NFPA 2001	Clean Agent Fire Extinguishing Systems	2012 Edition

NOTES

1. Compliance with CFC and CBC Chapter 33, Fire Safety During Construction and Demolition will be enforced.
2. Some codes may not apply if work regulated by such code is not within the scope of this project.

ABBREVIATIONS

AB	ANCHOR BOLT	EP	END PANEL	LT	LIGHT	SECT	SECTION
ABV	ABOVE	EPB	ELECTRICAL PANEL BOARD	LVR	LOUVER	S.E.D.	SEE ELECTRICAL DRAWING
AC	ASPHALT CONCRETE	EQ	EQUAL	LWR	LOW WALL RETURN AIR GRILL	SH	SHELF
A/C	AIR CONDITIONING	EQPT	EQUIPMENT	LWS	LOW WALL SUPPLY AIR GRILL	SHT	SHEET
ACOUS	ACOUSTICAL	ESA	EXPOSED TO STRUCTURE	MAS	MASONRY	SHTG	SHEATHING
ACP	ACOUSTICAL CEILING PANEL		ABOVE	MATL	MATERIAL	SIM	SIMILAR
ACT	ACOUSTICAL CEILING TILE	EWC	ELECTRIC WATER COOLER	MAX	MAXIMUM	SKL	SKYLIGHT
AD	AREA DRAIN	EXH	EXHAUST	MB	MACHINE BOLT	S.L.D.	SEE LANDSCAPE DRAWINGS
ADD	ADDENDUM	EXP	EXPANSION	MC	MEDICINE CABINET	S.M.D.	SEE MECHANICAL DRAWINGS
ADD'L	ADDITIONAL	EXPO	EXPOSED	MECH	MECHANICAL	SMS	SHEET METAL SCREW
ADJ	ADJUSTABLE/ADJACENT	EXST	EXISTING	MED	MEDIUM	SND	SANITARY NAPKIN DISPENSER
AFF	ABOVE FINISH FLOOR	EXT	EXTERIOR	MEMB	MEMBRANE	SP	STANDPIPE
AGGR	AGGREGATE	FA	FIRE ALARM	MTL	METAL	S/P	SHELF & POLE
ALT	ALTERNATE	FAB	FABRICATION	MFG	MANUFACTURING	SPEC	SPECIFICATION
ALUM	ALUMINUM	FAC	FACTORY	MFR	MANUFACTURER	SPVC	STANDPIPE VALVE CABINET
APL	ASSUMED PROPERTY LINE	FAS	FASTEN/ FASTENER	MH	MANHOLE	S.P.D.	SEE PLUMBING DRAWING
APPROX	APPROXIMATE	FB	FLAT BAR	MIN	MINIMUM	SQ	SQUARE
ARCH	ARCHITECTURAL	FBD	FIBERBOARD	MIR	MIRROR	S.S.	STAINLESS STEEL
ASPH	ASPHALT	FBGL	FIBERGLASS	MISC	MISCELLANEOUS	SST	STAINLESS STEEL
BB	BOTTOM OF BEAM	FBLK	FIRE BLOCKING	MKRBD	MARKER BOARD	S.S.D.	SEE STRUCTURAL
BD	BOARD	FBO	FURNISHED BY OTHERS	MLD	MOLDING	DRAWINGS	
BEL	BELOW	FD	FLOOR DRAIN	MMB	MEMBRANE	SSK	SERVICE SINK
BITUM	BITUMINOUS	FDC	FIRE DEPARTMENT	MO	MASONRY OPENING	STD	STANDARD
BLDG	BUILDING		CONNECTION	MOD	MODULAR	STL	STEEL
BLK	BLOCK	FDN	FOUNDATION	MT	METAL THRESHOLD	STOR	STORAGE
BLKG	BLOCKING	FE	FIRE EXTINGUISHER	MTD	MOUNTED	STRL	STRUCTURE/STRUCTURAL
BM	BEAM	FEC	FIRE EXTINGUISHER CABINET	MUL	MULLION	SUSP	SUSPENDED
BOT	BOTTOM	FF	FINISHED FLOOR	N	NORTH	SV	SHEET VINYL
BRG	BEARING	FFT	FLOOR FINISH TRANSITION	(N)	NEW	SYM	SYMMETRICAL
BRZ	BRONZE	FG	FIXED GLASS	NAT	NATURAL	SYS	SYSTEM
BTWN	BETWEEN	FHC	FIRE HOSE CABINET	NIC	NOT IN CONTRACT	T	TREAD
BUR	BUILT UP ROOFING	FHMS	FLATHEAD MACHINE SCREW	NO	NUMBER	T&B	TOP AND BOTTOM
CAB	CABINET	FHS	FLAT HEAD SCREW	NOM	NOMINAL	T&G	TONGUE AND GROOVE
CB	CATCH BASIN	FHWS	FLATHEAD WOOD SCREW	NTS	NOT TO SCALE	TB	TOWEL BAR
CEM	CEMENT	FIN	FINISH	O/	OVER	TD	TRENCH DRAIN
CER	CERAMIC	FJ	FLOOR JOIST	OA	OVERALL	TEL	TELEPHONE
CG	CORNER GUARD	FL	FLOOR	OBS	OBSCURE	TEMP	TEMPERED
CF	CUBIC FOOT	FLASH	FLASHING	O/C	ON CENTER	THK	THICK, -NESS
CFL	COUNTERFLASHING	FLUOR	FLUORESCENT	OD	OUTSIDE DIAMETER	THRU	THROUGH
CHAM	CHAMFER	FLX	FLEXIBLE	OFD	OVERFLOW DRAIN	TJ	TOOL JOINT
CHLKBD	CHALKBOARD	FND	FOUNDATION	OFF	OFFICE	TKBD	TACKBOARD
CI	CAST IRON	FOC	FACE OF CONCRETE	OH	OPPOSITE HAND	TME	TO MATCH EXISTING
CJ	CEILING JOIST	FOF	FACE OF FINISH	OPNG	OPENING	TOB	TOP OF BEAM
CJT	CONTROL JOINT	FOM	FACE OF MASONRY	OPP	OPPOSITE	TOC	TOP OF CURB OR CONCRETE
CLG	CEILING	FOS	FACE OF STUDS	OPQ	OPAQUE	TOM	TOP OF MASONRY
CLKG	CAULKING	FPRF	FIREPROOF	OPT	OPTIONAL	TOS	TOP OF STEEL
CLR	CLEAR	FR	FRAME, -D, -ING	PAD	POWER ACTUATED DEVICE	TOW	TOP OF WALL
CMU	CONCRETE MASONRY UNIT	FS	FULL SIZE	PDB	PARTICLE BOARD	TP	TOP OF PAVEMENT
CNTR	COUNTER	FSK	FLOOR SINK	PEN	PENETRATION, -S	TPD	TOILET PAPER DISPENSER
CO	CLEAN OUT	FT	FOOT OR FEET	PERF	PERFORATE, -D	TPTN	TOILET PARTITION
COL	COLUMN	FTG	FOOTING	PERM	PERIMETER	TRD	TREAD
COMB	COMBINATION	FURR	FURRING	PFB	PREFABRICATE, -D	TS	TUBE STEEL
COMPO	COMPOSITION (COMPOSITE)	FUT	FUTURE	PIP	POURED-IN-PLACE	TSB	TOP SET BASE
CONC	CONCRETE	FX	FIXTURE	PL	PROPERTY LINE	TSCD	TOILET SEAT COVER DISP.
CONN	CONNECTION	GA	GAGE, GAUGE	PLAM	PLASTIC LAMINATE	TSL	TOP OF SLAB
CONSTR	CONSTRUCTION	GALV	GALVANIZED	PLAS	PLASTER	TV	TELEVISION
CONT	CONTINUOUS OR CONTINUE	GB	GRAB BARS	PLT	PLATE	TYP	TYPICAL
CORR	CORRIDOR OR CORRUGATED	GEN	GENERAL	PLYWD	PLYWOOD	UNF	UNFINISHED
COTF	CLEAN OUT THROUGH FLOOR	GI	GALVANIZED IRON	PNL	PANEL	UON	UNLESS OTHERWISE NOTED
COTG	CLEAN OUT TO GRADE	GKT	GASKET, GASKETED	PNT	PAINT, -ED	UR	URINAL
COTW	CLEAN OUT THROUGH WALL	GL	GLASS, GLAZING	POC	POINT OF CONNECTION	VAR	VARIES
CR	CURB RETURN	GND	GROUND	PP	PERMIT PACKAGE	VAT	VINYL ASBESTOS TILE
CRC	COLD ROLLED CHANNEL	GR	GRADE	PR	PAIR	VB	VAPOR BARRIER
CSK	COUNTERSINK	GVL	GRAVEL	PRCST	PRE-CAST	VCT	VINYL COMPOSITION TILE
CSMT	CASEMENT	GWB	GYPSUM WALL BOARD	PT	POINT	VCTB	VINYL COVERED TACKBOARD
CSP	COMBINATION STANDPIPE	GYP	GYPSUM	PTD	PAPER TOWEL DISPENSER	VERT	VERTICAL
CT	CERAMIC MOSAIC (TILE)	HB	HOSE BIBB	PTD/R	PAPER TOWEL DISPENSER &	VEST	VESTIBULE
CTR	CENTER	HC	HOLLOW CORE		RECEPTACLE	VG	VERTICAL GRAIN
CTSK	COUNTERSUNK	HCA	HANDICAPPED ACCESSIBLE	PTDF	PRESSURE TREATED	VIF	VERIFY IN FIELD
CW	COLD WATER	HDB	HARDBOARD		DOUGLAS FIR	VNR	VENEER
DBL	DOUBLE	HDR	HEADER	PTN	PARTITION	VO	VENT OVER/OFFSET
DEPT	DEPARTMENT	HDWD	HARDWOOD	PVA	POLYVINYL ACETATE	VR	VENT RISER
DET	DETAIL	HDWE	HARDWARE	PVC	POLYVINYL CHLORIDE	VTR	VENT THROUGH ROOF
DF	DRINKING FOUNTAIN	HEX	HEXAGONAL	QT	QUARRY TILE	VWC	VINYL WALL COVERING
DIA	DIAMETER	HGT	HEIGHT	R	RISER	W	WEST
DIAG	DIAGONAL	HM	HOLLOW METAL	RAD	RADIUS	W/	WITH
DIM	DIMENSION	HO	HOLD OPEN	RCP	REFLECTED CEILING PLAN	WC	WATER CLOSET
DISP	DISPENSER	HORIZ	HORIZONTAL	RD	ROOF DRAIN	WD	WOOD
DIV	DIVISION	HR	HOUR	RDWD	REDWOOD	WFG	WIRED FIXED GLASS
DN	DOWN	HRC	HOT ROLLED CHANNEL	REF	REFERENCE	WHC	WALL HUNG CABINET
DO	DOOR OPENING	HTG	HEATING	REFR	REFRIGERATOR	WI	WROUGHT IRON
DPRS	DEPRESSED	HVAC	HEATING/VENTILATING/	REINF	REINFORCE, -D, -ING	WIN	WINDOW
DR	DOOR		AIR CONDITIONING	REM	REMOVE	WIM	WIRE MESH
DS	DOWNSPOUT	HW	HOT WATER	REQ	REQUIRED	W/O	WITHOUT
DSP	DRY STANDPIPE	ID	INSIDE DIAMETER	RESIL	RESILIENT	WO	WHERE OCCURS
DWG	DRAWING	INCL	INCLUDE, -D, -ING	RET	RETURN	WP	WATERPROOF
DWR	DRAWER	INSTR	INSTRUCTION, -S	REV	REVISION, -S, REVISED	WSCT	WAINSCOT
DWS	DRYWALL SCREW	INSUL	INSULATE, -D, -ION	RFG	ROOFING	WSP	WET STANDPIPE
E	EAST	INT	INTERIOR	RFL	REFLECT, -ED, -IVE	WST	WASTE
(E)	EXISTING	INV	INVERT	RGTR	REGISTER	WT	WEIGHT
EA	EACH	IS	INTERMEDIATE SUPPORT	RH	RIGHT HAND	WWF	WELDED WIRE FABRIC
EB	EXPANSION BOLT	JAN	JANITOR	RL	RIDGE LINE	L	
EDF	ELECTRIC DRINKING FOUNTAIN	JST	JOIST	RM	ROOM	&	AND
EIR	ENVIRONMENTAL IMPACT	JT	JOINT	RO	ROUGH OPENING	<	ANGLE
	REPORT	KIT	KITCHEN	ROW	RIGHT OF WAY	@	AT
EJ	EXPANSION JOINT	KO	KNOCKOUT	RT	RESILIENT TILE	L	C CENTER LINE
EL	ELEVATION	LAB	LABORATORY	RWL	RAINWATER LEADER		Ø DIAMETER
ELEC	ELECTRIC	LAD	LADDER	S	SOUTH		# NUMBER OR POUND
ELECT	ELECTRICAL	LAM	LAMINATE	S/FEC	SURFACE-MOUNTED FEC		± PLUS/MINUS
ELEV	ELEVATION	LAV	LAVATORY	SC	SOLID CORE		P PROPERTY LINE
EMER	EMERGENCY	LB	LAG BOLT	S.C.D.	SEE CIVIL DRAWINGS		
ENAM	ENAMEL	LH	LEFT HAND	SCHED	SCHEDULE		
ENCL	ENCLOSURE	LKR	LOCKER	SD	STORM DRAIN		

PROJECT DIRECTORY

OWNER	East Side Union High School District 830 North Capitol Avenue San Jose, CA 95133 (408) 347-5000
CONSTRUCTION MANAGER	Van Pelt Construction Services 5030 Business Center Drive, Suite 240 Fairfield, CA 94534 (707) 438-3790
ARCHITECT	Artik Art & Architecture 394-A Umbarger Road San Jose, CA 95111 (408) 224-9890
ELECTRICAL ENGINEER	Alliance Engineering Consultants, Inc. 4701 Patrick Henry Drive, Bldg 10 Santa Clara, CA 95054 (408) 970-9888 (408) 970-9316 (Fax)

SHEET INDEX

SYMBOL LEGEND

- 01 — DEMOLITION KEY NOTE NUMBER
- 01 — KEY NOTE NUMBER
- A — WINDOW TYPE
- CONTROL POINT
- 1 — GRID IDENTIFICATION
- 1 / A12.01 — DETAIL CUT
- REVISION 1
- N — NORTH ARROW

GENERAL NOTES

1. Existing construction data shown on the drawings was obtained from available drawings. The contractor shall verify all existing conditions and shall notify the architect of all exceptions before proceeding with the work.
2. See architectural drawings for layout dimensions and elevations except where indicated otherwise.
3. All discrepancies between drawings shall be clarified with the architect prior to proceeding with work.
4. In the event that certain features of the construction are not fully shown or detailed on the drawings or called for in the general notes, then their construction shall be of the same character as similar conditions that are shown or called for.
5. Dimensions, elevations, and existing conditions shall be checked and verified on the job site by each contractor. Errors, ommisions or discrepancies shall be reported to the architect before work begins or supplies are ordered.
6. Verify electrical, mechanical, fire alarm, telephone and security requirements before construction begins.
7. Work shall be performed in conformance with local, county, state and federal codes, laws, and regulations applicable to this work.
8. Any item identified to be demolished, removed or relocated is to be completely removed, including but not limited to any concealed items (pipes, curbs, framing, beams, fasteners, etc.).
9. All items within a demolished area that must be rerouted in order to maintain continuity shall be done so in accordance with appropriate specification sections in the project manual at no additional cost. If no specification can be found within the project manual, then continuity shall be maintained by current standard methods for construction but not lesser in quality then existing. Any area of demolition or removal shall be left in a completely finished condition as outlined in the project manual.

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Key Plan

Project Title

ANDREW HILL HS
GYM WINDOW COVERINGS

3200 SENTER ROAD
SAN JOSE, CA 95111

EAST SIDE UNION HIGH SCHOOL DISTRICT

No	Revisions/Submissions	Date

Drawing Title

TITLE SHEET

Regulatory Agency Approval

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES

N/A

AC_____FLS_____SS_____
DATE_____

Architect Seal

LICENSED ARCHITECT
WILLIAM E. GOULD
No. C-23919
REN. 9-30-19
STATE OF CALIFORNIA

File Number
N/A

Application Number
N/A

Project No.
135208

Drawing No
A0.01

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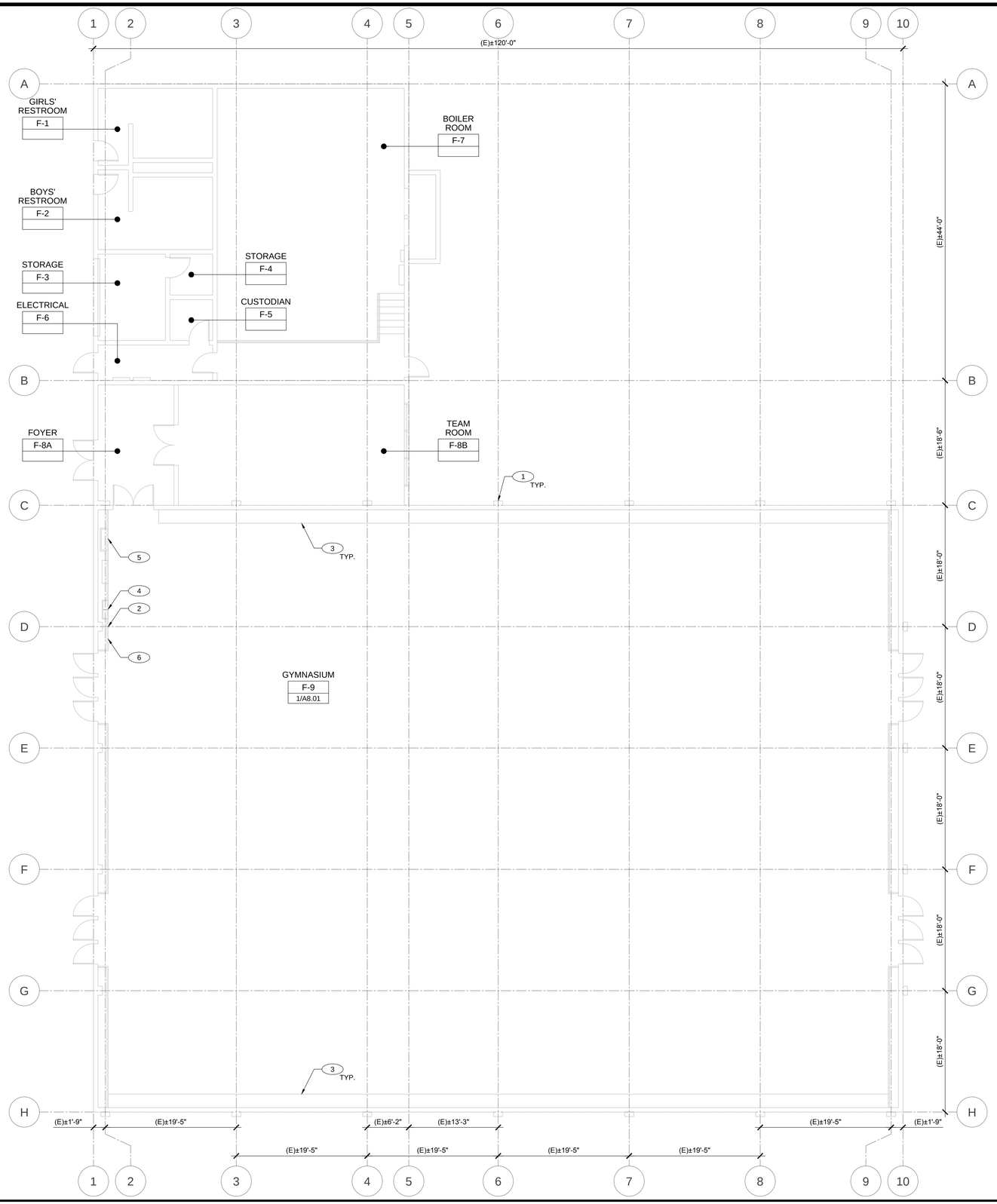

1 BUILDING F - FLOOR PLAN

1/8"=1'-0"

GENERAL NOTES

1. CONTRACTOR SHALL COORDINATE WORK WITH ALL OTHER DISCIPLINES.
2. REFER TO ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.
3. REFER TO REFLECTED CEILING PLAN, ELEVATIONS, SECTIONS AND DETAILS FOR ADDITIONAL INFORMATION.
4. REPETITIVE FEATURES ARE NOT DRAWN IN THEIR ENTIRETY AND SHALL BE PROVIDED AS IF DRAWN IN FULL.
5. PROVIDE FRAMING, SUPPORTS, BACKING/ BLOCKING REQUIRED FOR INSTALLATION OF ALL WALL-MOUNTED AND CONCEALED (IN-WALL) ITEMS.

KEYNOTES

1. (E) CONCRETE WALL TO REMAIN.
2. (E) FURRED WALL TO REMAIN.
3. (E) BLEACHERS TO REMAIN.
4. (E) DRINKING FOUNTAIN TO REMAIN.
5. (E) ELECTRICAL PANEL, REFER TO ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.
6. MOTORIZED WINDOW SHADE CONTROL SWITCH(ES), REFER TO ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION. PATCH PORTIONS OF (E) FURRED WALL TO MATCH (E) ADJACENT FURRED WALL; PAINT.

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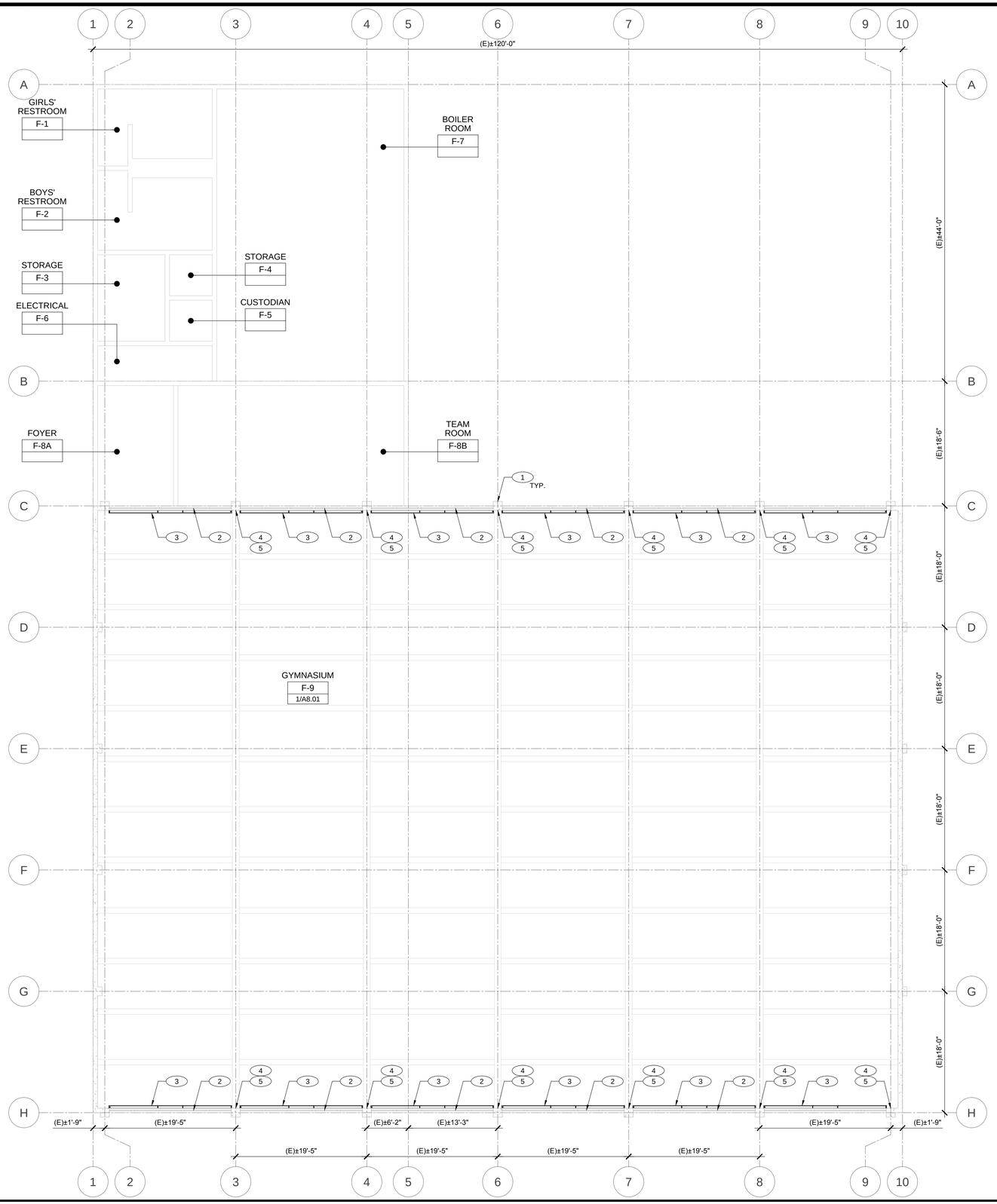

1 BUILDING F - REFLECTED CEILING PLAN

1/8"=1'-0"

GENERAL NOTES

1. CONTRACTOR SHALL COORDINATE WORK WITH ALL OTHER DISCIPLINES.
2. REFER TO ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.
3. REFER TO FLOOR PLAN, ELEVATIONS, SECTIONS AND DETAILS FOR ADDITIONAL INFORMATION.
4. REPETITIVE FEATURES ARE NOT DRAWN IN THEIR ENTIRETY AND SHALL BE PROVIDED AS IF DRAWN IN FULL.
5. PROVIDE FRAMING, SUPPORTS, BACKING/ BLOCKING REQUIRED FOR INSTALLATION OF ALL WALL-MOUNTED AND CONCEALED (IN-WALL) ITEMS.

KEYNOTES

1. (E) CONCRETE WALL TO REMAIN.
2. (E) WINDOW TO REMAIN.
3. MULTI-BAND MOTORIZED WINDOW SHADE WITH NON-PVC SHADECLOTH (3% OPEN BASKET WEAVE) AND FASCIA PANEL, REFER TO DETAIL 2/A8.01. CONTRACTOR SHALL FIELD VERIFY EXTENT OF WINDOW OPENING(S) TO ENSURE CORRECT SIZING PRIOR TO FABRICATION OF MULTI-BAND MOTORIZED WINDOW SHADES.
4. PAINT ALL EXPOSED CONDUIT BETWEEN MULTI-BAND MOTORIZED WINDOW SHADES AND THEIR CONTROL SWITCH(ES) TO MATCH (E) ADJACENT FINISH.
5. PAINT ALL (E) SURFACES THAT HAVE BEEN DAMAGED DUE TO INSTALLATION OF MULTI-BAND MOTORIZED WINDOW SHADE TO MATCH (E) ADJACENT FINISH.

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BUILDING F
REFLECTED
CEILING PLAN

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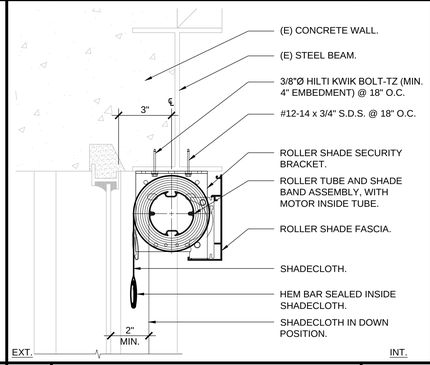
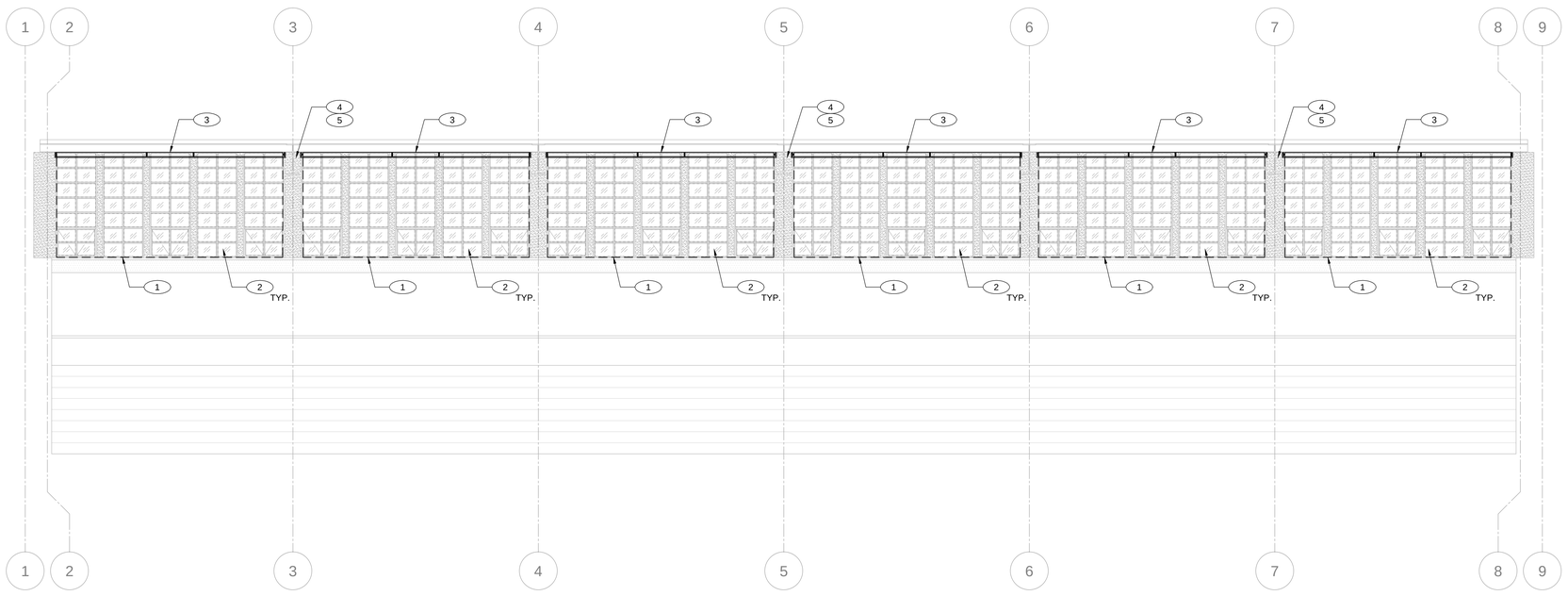


2 WINDOW SHADE MOUNTING 3" = 1'-0"



1 BUILDING F - INTERIOR ELEVATION GRIDLINE C (SIM. OPPOSITE HAND GRIDLINE H) 3/16"=1'-0"

GENERAL NOTES

1. CONTRACTOR SHALL COORDINATE WORK WITH ALL OTHER DISCIPLINES.
2. REFER TO ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.
3. REFER TO FLOOR PLAN, ELEVATIONS, SECTIONS AND DETAILS FOR ADDITIONAL INFORMATION.
4. REPETITIVE FEATURES ARE NOT DRAWN IN THEIR ENTIRETY AND SHALL BE PROVIDED AS IF DRAWN IN FULL.
5. PROVIDE FRAMING, SUPPORTS, BACKING/ BLOCKING REQUIRED FOR INSTALLATION OF ALL WALL-MOUNTED AND CONCEALED (IN-WALL) ITEMS.

KEYNOTES

1. EXTENT OF SHADE FABRIC IN DOWN POSITION.
2. (E) WINDOW TO REMAIN.
3. MULTI-BAND MOTORIZED WINDOW SHADE WITH NON-PVC SHADECLOTH (3% OPEN BASKET WEAVE) AND FASCIA PANEL. REFER TO 2/-. CONTRACTOR SHALL FIELD VERIFY EXTENT OF WINDOW OPENING(S) TO ENSURE CORRECT SIZING PRIOR TO FABRICATION OF MULTI-BAND MOTORIZED WINDOW SHADES.
4. PAINT ALL EXPOSED CONDUIT BETWEEN MULTI-BAND MOTORIZED WINDOW SHADES AND THEIR CONTROL SWITCH(ES) TO MATCH (E) ADJACENT FINISH.
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BUILDING F
INTERIOR ELEVATION
& DETAILS

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Drawing No
A8.01

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GENERAL NOTES

1. THE COMPLETE ELECTRICAL INSTALLATION SHALL BE IN ACCORDANCE WITH THE LATEST ADOPTED EDITION OF THE CALIFORNIA ELECTRICAL CODE, SPECIFICATIONS AND STANDARD, THE LATEST RULES AND REGULATIONS OF THE SAFETY ORDERS ISSUED BY THE DIVISION OF INDUSTRIAL SAFETY, THE NATIONAL BOARD OF FIRE UNDERWRITERS AND ALL APPLICABLE STATE AND LOCAL CODES ISSUED BY AUTHORITIES HAVING JURISDICTION.
2. PRIOR TO SUBMITTING PROPOSAL, BIDDER SHALL EXAMINE ALL GENERAL CONSTRUCTION DRAWINGS. VISIT CONSTRUCTION SITE AND ATTEND THE PRE-BID MEETING TO BE FAMILIAR WITH EXISTING CONDITIONS UNDER WHICH HE WILL HAVE TO OPERATE AND WHICH WILL IN ANYWAY AFFECT THE WORK UNDER THIS CONTRACT. NO SUBSEQUENT ALLOWANCE WILL BE MADE IN THIS CONNECTION IN BEHALF OF THE CONTRACTOR FOR ANY ERROR OR NEGLIGENCE ON HIS PART.
3. THIS CONTRACTOR SHALL INCLUDE ALL CONTINGENCIES WHICH MAY ARISE AND WHICH MAY BE REQUIRED BY ALTERATION AND DEMOLITION WORK. THIS IS TO INCLUDE ALL REMOVAL, RELOCATION AND REWORKING OF ELECTRICAL OUTLETS, CONDUITS, WIRING AND ITEMS FOR ELECTRICAL EQUIPMENT REQUIRED AND ANY NECESSARY SPLICING OR EXTENSION OF EXISTING CONDUIT AND WIRING SYSTEMS. THE ELECTRICAL CONTRACTOR SHALL VISIT JOB SITE AND DETERMINE EXTENT OF THE WORK.
4. FIELD VERIFY TO CONFIRM ALL FIRE RESISTIVE CEILINGS AND WALLS. PROVIDE FIRE STOP SEALS PER UNIFORM BUILDING CODE FOR CONDUIT PENETRATION THROUGH FIRE RESISTIVE FLOORS, WALLS AND CEILINGS.
5. ALL ELECTRICAL MATERIALS AND EQUIPMENT SHALL BE LISTED BY UNDERWRITER'S LABORATORIES AND BEAR THEIR LABEL.
6. CONDUIT ROUTING SHOWN IS ESSENTIALLY DIAGRAMMATIC. CONTRACTOR SHALL LAYOUT RUNS TO SUIT FIELD CONDITIONS AND THE COORDINATION REQUIREMENTS OF OTHER TRADES. ALL EXPOSED CONDUIT, BOXES, FITTINGS, SUPPORT, ETC. SHALL BE PAINTED TO MATCH ADJACENT SURFACES.
7. THE CONTRACTOR SHALL CONSULT THE ARCHITECTURAL AND OTHER DRAWINGS RELATED TO THIS PROJECT FOR ADDITIONAL WORK TO BE PROVIDED.
8. THE OWNER RETAINS FIRST SALVAGE RIGHTS TO ALL EXISTING EQUIPMENT REMOVED UNDER THIS CONTRACT. THE ELECTRICAL CONTRACTOR SHALL CONSULT WITH THE OWNER FOR DISPOSITION OF THE EXISTING EQUIPMENT TO BE REMOVED BY HIM. THE CONTRACTOR SHALL INCLUDE IN HIS BID PROPOSAL ALL COSTS RELATED TO THE DISPOSAL OF EXISTING EQUIPMENT REMOVED UNDER THIS CONTRACT.
9. ANY POWER SHUTDOWN SHALL BE COORDINATED WITH SCHOOL DISTRICT CONSTRUCTION COORDINATOR. A SHUTDOWN SCHEDULE SHALL BE PRESENTED TO SCHOOL DISTRICT FOR APPROVAL TWO WEEKS PRIOR TO COMMENCEMENT OF WORK. SHUTDOWN SHALL BE PERFORMED IN OVERTIME HOURS IF SO DIRECTED BY SCHOOL DISTRICT.
10. ALL FEEDER AND BRANCH CIRCUIT CONDUITS SHALL BE INSTALLED CONCEALED IN FINISHED AREA, UNLESS OTHERWISE NOTED. CUT AND PATCH (E) WALL OR CEILING AS REQUIRED. SURFACE TYPE RACEWAY MAY BE PROVIDE IN LIEU OF CONCEALED CONDUITS. SEE NOTES 34, 35 AND 36 FOR REQUIREMENTS.
11. ALL PENETRATIONS THROUGH FIRE RESISTIVE WALLS SHALL BE TOTALLY SEALED TO PREVENT THE SPREAD OF SMOKE, FIRE, TOXIC GASES, AND WATER THROUGH THE PENETRATION BEFORE, DURING AND AFTER A FIRE CONDITION. THE FIRE RATING OF THE SEALED PENETRATION SHALL BE AT LEAST THAT OF THE WALL INTO WHICH IT IS INSTALLED. THE SEAL SHALL PERMIT THE VIBRATION, EXPANSION AND/OR CONTRACTION OF THE CONDUIT PASSING THROUGH THE PENETRATION WITHOUT THE SEAL CRACKING OR CRUMBLING.
12. PROVIDE FLEXIBLE CONDUIT AT BUILDING SEISMIC JOINTS.
13. UNLESS OTHERWISE INDICATED, THE MINIMUM SIZE OF CONDUCTORS SHALL BE 12 AWG THWN STRANDED COPPER ONL.Y.
14. UNLESS OTHERWISE INDICATED, THE MINIMUM SIZE OF CONDUIT SHALL BE 3/4".
15. GREEN INSULATED GROUND CONDUCTORS SHALL BE INSTALLED IN ALL FEEDER AND BRANCH CIRCUIT WIRING.
16. PROVIDE LABELS ON ALL EQUIPMENT AND DEVICES. LABELS SHALL BE SELF-ADHESIVE PHENOLIC TYPE AND WHITE LETTER ON BLACK BACKGROUND, PROVIDE BRADY OR DYMO TYPE LABELS (CIRCUIT IDENTIFICATION) FOR ALL SWITCHES AND RECEPTACLES.
17. THE CONTRACTOR SHALL PROVIDE TYPEWRITTEN DIRECTORIES FOR ALL ELECTRICAL PANELS INVOLVED IN THIS PROJECT. THE PANEL DIRECTORIES SHALL REFLECT THE AS-BUILT CIRCUITS. ONE COPY OF THE SCHEDULE SHALL BE TAPED TO THE INSIDE OF THE PANEL DOOR, AND ONE COPY SHALL BE SUBMITTED TO THE ENGINEER AS AN "AS-BUILT" DRAWING.
18. ALL ELECTRICAL EQUIPMENT SHALL BE BRACED OR ANCHORED TO RESIST A HORIZONTAL FORCE ACTING IN ANY DIRECTION PER CBC REQUIREMENTS.
19. THE CONTRACTOR SHALL EMPLOY QUALIFIED AND EXPERIENCED WORKMEN FOR THIS WORK. ALL RESTORATION WORK SHALL BE SUBJECT TO THE APPROVAL OF THE ARCHITECT AND/OR OWNER AND IOR.
20. THE CONTRACTOR SHALL BE HELD FULLY RESPONSIBLE FOR THE PROPER RESTORATION OF ALL EXISTING SURFACES REQUIRING PATCHING, PLASTERING PAINTING AND/OR OTHER REPAIRS DUE TO THE INSTALLATION OF ELECTRICAL WORK UNDER THE TERMS OF THIS SPECIFICATION. CLOSE ALL OPENINGS, REPAIR ALL SURFACES, ETC., AS REQUIRED. THIS SHALL INCLUDE ALL WALLS, CEILINGS, ROOFS, PAVEMENT, PLANTERS, ETC.
21. WHERE CONDUIT IS ROUTED ON ROOF STRUCTURES, PROVIDE SUPPORT AT 10'-0" O.C. MAXIMUM.
22. ALL EXPOSED CONDUIT BELOW 7'-0" SHALL BE RSC AND ALL EXPOSED HARDWARE SHALL BE "HOT DIPPED" GALVANIZED. ALL INTERIOR CONDUITS MAY BE EMT, UNLESS OTHERWISE NOTED.
23. WHERE SURFACE WIRING IS CALLED FOR IN A FINISHED AREA, SURFACE TYPE RACEWAY SYSTEM SHALL BE INSTALLED COMPLETE WITH ALL PROPER FITTINGS, ADAPTERS, OUTLETS, DEVICES COVERS, END CAPS, ETC. AS MANUFACTURED BY PANDUIT OR AN APPROVED EQUAL AND SHALL BE PAINTED TO MATCH COLOR OF ADJACENT WALL OR CEILING. ALL EXPOSED CONDUITS, BOXES AND CABINETS SHALL ALSO BE PAINTED TO MATCH COLOR OF ADJACENT WALL OR CEILING.
24. SURFACE TYPE RACEWAY SYSTEM SHALL BE INSTALLED PARALLEL TO, OR AT RIGHT ANGLES TO BUILDING LINES AND ROUTE AROUND SURFACE MOUNTED ITEMS, SUCH AS TACK BOARDS, ETC.
25. ALL WIRES SHALL BE IN CONDUIT U.O.N.
26. GENERALLY, HORIZONTAL RUNS SHALL BE INSTALLED ON THE CORNER BELOW CEILING LINE AS APPROVED BY THE ENGINEER.

GENERAL NOTES (CONTINUATION)

27. ALL UNDERGROUND CONDUIT SHALL HAVE #12 TRACER WIRE WITH THWN INSULATION UNDER EACH RUN OF THE UNDERGROUND CONDUIT DUCTBAMK AND 6" FOIL MARKER IN TRENCH. TRACE WIRE SHALL EXTEND AT TERMINATION POINTS A MIN. OF 3 FT FROM SUCH SURFACE AND SHALL BE TRAPPED SECURED TO CONDUIT OR ACCEPTABLE EQUIVALENT.
28. UPON COMPLETION OF CONSTRUCTION, PAINT ALL EXPOSED ELECTRICAL CONDUITS, DEVICES AND BOXES (UNLESS DEVICES OR BOXES ARE ALREADY PRE-FINISHED) PER SPECIFICATION SECTION 09900, PARAGRAPH 2.3 PAINTING SCHEDULE. PAINT COLOR SHALL MATCH THE EXISTING SURFACES.
29. THE CONTRACTOR SHALL MAINTAIN AT THE JOB SITE, AN UP TO DATE "AS BUILT" DRAWING SET. THE "AS BUILT" DRAWING SET SHALL REFLECT ALL APPROVED CHANGES TO THE DESIGN DRAWINGS. THE "AS BUILT" DRAWING SET SHALL BE KEPT CLEAN AND IN GOOD CONDITION AND SHALL BE TURNED OVER TO THE OWNER AT THE COMPLETION OF THE PROJECT. THESE DRAWINGS SHALL BE UPDATED DAILY AND BE CHECKED WEEKLY BY IOR. THE PROGRESS PAYMENT IS TIED TO THEIR COMPLETION.
30. UPON COMPLETION OF THE WORK, THE CONTRACTOR SHALL SCHEDULE AND PERFORM A COMPLETE FUNCTIONAL TEST IN THE PRESENCE OF DSA IOR TO DEMONSTRATE TO THE OWNER THAT THE NEW INSTALLATION IS OPERATING AS INTENDED TEST RESULTS SHALL BE SENT TO DISTRICT FOR IOR AND AOR. ANY DEFECTS OR DEFICIENCIES IN THE MATERIALS OR WORK SHALL BE CORRECTED IMMEDIATELY BY AND AT THE CONTRACTOR'S EXPENSE.

LEGEND

- HOMERUN TO PANEL, HASHMARKS INDICATE NUMBER OF #12 AWG WIRES IF MORE THAN (3); (†) INDICATES GROUND.
- CONDUIT AND CONDUCTORS CONCEALS IN WALL OR CEILING
- CONDUIT AND WIRES CONCEALED IN FLOOR OR UNDERGROUND
- CONDUIT STUBBED OUT IN ACCESSIBLE LOCATION, CAP AND MARK LOCATION
- CONDUIT RISER
- SURFACE MOUNTED ELECTRICAL PANELBOARD, 277/480V
- SURFACE MOUNTED ELECTRICAL PANELBOARD, 120/208V
- RECESSED MOUNTED ELECTRICAL PANELBOARD, 120/208V
- HASHMARK INDICATES EXISTING ELECTRICAL ITEM TO BE DISCONNECTED AND REMOVED INCLUDING WIRES AND CONDUIT UP TO THE NEXT JUNCTION BOX WHICH IS TO REMAIN.
- NS — MECHOSHADE SYSTEMS – IQ®2 DUAL SPLITTER
- M — 120 VAC MOTOR, 60 Hz WITH PRE-WIRED LOW VOLTAGE WITH LEAD CABLE MECHOSHADE SYSTEMS – M5X7 0634 *^S2
- $_1^{a,b} — SWITCH WITH SUB-GROUP CONTROLLER (MECHOSHADE SYSTEMS – IMLCPS55WHWH) SUBCRIPT "a,b" DENOTES MOTOR SWITCH DESIGNATION
- J — JUNCTION BOX OR PULL BOX, SIZE PER CODE.
- 1 — SHEET NOTE REFERENCE, SEE NOTE 1
- 1/E3.1 — DETAIL TAG. REFER TO DETAIL 1 ON SHEET NUMBER E3.1

LIST OF APPLICABLE CODES

1. 2016 CALIFORNIA BUILDING STANDARDS ADMINISTRATIVE CODE (PART 1, TITLE 24, CCR)
2. 2016 CALIFORNIA BUILDING CODE (CBC), VOLUMES 1 & 2 (PART 2, TITLE 24, CCR)
3. 2016 CALIFORNIA ELECTRICAL CODE (PART 3, TITLE 24, CCR)
4. 2016 CALIFORNIA MECHANICAL CODE (PART 4, TITLE 24, CCR)
5. 2016 CALIFORNIA PLUMBING CODE (PART 5, TITLE 24, CCR)
6. 2016 CALIFORNIA ENERGY CODE (PART 6, TITLE 24, CCR)
7. 2016 CALIFORNIA FIRE CODE (PART 9, TITLE 24, CCR)
8. 2016 CALIFORNIA REFERENCED STANDARDS CODE (PART 12, TITLE 24, CCR)
9. NFPA 13, 2016 EDITION, THE INSTALLATION OF AUTOMATIC SPRINKLER SYSTEMS, AS AMENDED
10. NFPA 14, 2016 EDITION, THE INSTALLATION OF STANDPIPE, PRIVATE HYDRANT AND HOSE SYSTEMS
11. NFPA 24, 2016 EDITION, THE INSTALLATION OF PRIVATE FIRE SERVICE MAINS AND THEIR APPURTENANCES
12. NFPA 72, 2016 EDITION, NATIONAL FIRE ALARM CODE, AS AMENDED
13. 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN.

MEP COMPONENT ANCHORAGE NOTES

MEP COMPONENT ANCHORAGE NOTES:

ALL MECHANICAL, PLUMBING AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA APPROVED CONSTRUCTION DOCUMENTS. WHERE NO DETAIL IS INDICATED, THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENT PRESCRIBED IN THE 2016 CBC, SECTION 1616A.1.18 THROUGH 1616A.1.26 AND ASCE 7-10 CHAPTER 13, 26 AND 30.

1. ALL PERMANENT EQUIPMENT AND COMPONENTS.
2. TEMPORARY OR MOVABLE EQUIPMENT THAT IS PERMANENTLY ATTACHED (E.G. HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS OR WATER
3. MOVABLE EQUIPMENT WHICH IS STATIONED IN ONE PLACE FOR MORE THAN 8 HOURS AND HEAVIER THAN 400 POUNDS ARE REQUIRED TO BE ANCHORED WITH TEMPORARY ATTACHMENTS.

THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE BUT THE ATTACHMENT NEED NOT BE DETAILED ON THE PLANS. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING, AND CONDUIT.

A. COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVE A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT.
B. COMPONENTS WEIGHING LESS THAN 20 POUNDS, OR IN THE CASE OF DISTRIBUTED SYSTEMS, LESS THAN 5 POUNDS PER FOOT, WHICH ARE SUSPENDED FROM A ROOF OR FLOOR OR HUNG FROM A WALL.

FOR THOSE ELEMENTS THAT DO NOT REQUIRE DETAILS ON THE APPROVED DRAWINGS, THE INSTALLATION SHALL BE SUBJECT TO THE APPROVAL OF THE STRUCTURAL ENGINEER AND THE DSA DISTRICT STRUCTURAL ENGINEER. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH ABOVE REQUIREMENTS.

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTE:

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENT PRESCRIBED IN ASCE 7-10 SECTION 13.3 AS DEFINED IN ASCE 7-10 SECTION 13.6.5.6, 13.6.7, 13.6.8 AND 2016 CBC, SECTIONS 1616A.1.23, 1616A.1.24, 1616A.1.25 AND 1616A.1.26.
THE METHOD OF SHOWING BRACING AND ATTACHMENT TO THE STRUCTURE FOR THE IDENTIFIED DISTRIBUTION SYSTEM ARE AS NOTED BELOW. WHEN BRACING AND ATTACHMENTS ARE BASED ON A PREAPPROVED INSTALLATION GUIDE (e.g., SMACNA OR OSHPD OPM), COPIES OF THE BRACING SYSTEM INSTALLATION GUIDE OR MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO THE START AND DURING THE HANGING AND BRACING OF THE DISTRIBUTION SYSTEMS.
MECHANICAL PIPING (MP), MECHANICAL DUCTS (MD), PLUMBING PIPING (PP), ELECTRICAL DISTRIBUTION SYSTEMS (E):

MP☐MD☐PP☐E☒
OPTION 1: DETAILED ON THE APPROVED DWGS WITH PROJECT SPECIFIC NOTES AND DETAILS

MP☐MD☐PP☐E☒
OPTION 2: SHALL COMPLY WITH THE APPLICABLE OSHPD PRE-APPROVED (OPM#); (I.E. OPM# 0043-13 MASON INDUSTRIES INC., AND OPM# 0203-13 M.W. SAUSSE & CO. INC.)

MP☐MD☐PP☐
OPTION 3: SHALL COMPLY WITH THE SMACNA SEISMIC RESTRAINT MANUAL, OSHPD EDITION (2009), INCLUDING ANY ADDENDA. FASTENERS AND OTHER ATTACHMENTS NOT SPECIFICALLY IDENTIFIED IN THE SMACNA SEISMIC RESTRAINT MANUAL, OSHPD EDITION, ARE DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS. THE DETAILS SHALL ACCOUNT FOR THE APPLICABLE SEISMIC HAZARD LEVEL _____ AND CONNECTION CONNECTION LEVEL _____ FOR THE PROJECT AND CONDITIONS.

DRAWING INDEX

ABBREVIATIONS

A AMP	AMPERE
AFF	ABOVE FINISHED FLOOR
AP	ACCESS POINT
BRKR	BREAKER
C	CONDUIT, CLOCK
CATV	CABLE TELEVISION
CBC	CALIFORNIA BUILDING CODE
CCTV	CLOSED CIRCUIT TELEVISION
CEC	CALIFORNIA ELECTRIC CODE
CKT	CIRCUIT
CO	CONDUIT ONLY WITH PULL ROPE
CPS	CURRICULUM AND PRESENTATION SYSTEM
CSC	CLOCK/SPEAKER CABINET
(E)	EXISTING
FU	FUSE
G	GROUND, GUARD
IDF	INTERMEDIATE DISTRIBUTION FRAME
MAX	MAXIMUM
MDF	MAIN DISTRIBUTION FRAME
MIN	MINIMUM
MPOE	MAIN POINT OF ENTRY
MSTC	MAIN SIGNAL TELEPHONE CABINET
MTB	MAIN TELEPHONE BOARD
NEC	NATIONAL ELECTRICAL CODE
NL	NIGHT LIGHT
NTS	NOT TO SCALE
O.C.	ON CENTER
PA	PUBLIC ADDRESS
PH, ø	PHASE
PNL	PANEL
(R) RECEPT.	RELOCATED RECEPTACLE
SAD	SEE ARCHITECTURAL DRAWINGS
STC	SATELLITE TERMINAL CABINET
TRANSF.	TRANSFORMER
TB	TELEPHONE BOARD
TC	TERMINAL CAN
TYP	TYPICAL
UON	UNLESS OTHERWISE NOTED
V	VOLT
W	WATT
WG	WIRE GUARD
WP	WEATHERPROOF
XFMR	TRANSFORMER

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REGISTERED PROFESSIONAL ENGINEER
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No. 11537
Exp. 6/30/19
ELECT.
STATE OF CALIFORNIA

Key Plan

Project Title

ANDREW HILL HS
GYM WINDOW COVERINGS

3200 SENTER ROAD
SAN JOSE, CA 95111

EAST SIDE UNION HIGH SCHOOL DISTRICT

No	Revisions/Submissions	Date

Drawing Title

ELECTRICAL COVER SHEET

Regulatory Agency Approval

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES

N/A

AC._____FLS._____SS._____
DATE_____

Architect Seal

LICENSED ARCHITECT
WILLIAM E. GOULD
No. C-23919
REN. 9-30-19
STATE OF CALIFORNIA

File Number
N/A

Application Number
N/A

Project No.
135208

Drawing No
E0.1

If this sheet is not 24" x 36" it is a reduced print - scale accordingly

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Plot Date: 3/8/2018 2:50:49 PM

ELECTRICAL SPECIFICATION
SECTION 26 00 00

PART 1 GENERAL

1.01 SCOPE

A. The scope of work shall include all labor, materials, equipment and services necessary for the complete installation of all electrical work as herein specified and as shown on the Drawings, including, but not limited to the following:

1. Power circuits to all equipment and devices.
2. Wiring devices, necessary conduit, wiring and interconnections
3. All necessary cutting, patching, trenching and backfilling.
4. Painting, labeling and equipment identification as specified.
5. Test the complete work. Correct any deficiencies to the satisfaction of the Owner or his designated representative.

1.02 PRODUCT HANDLING

A. Contractor shall be responsible for delivery, storage, protection and placing of all equipment and materials.

B. Protection: Contractor shall protect from damage during construction, work and materials of other trades as well as electrical work and material. Electrical equipment stored and installed on job site shall be protected from dust, water, or any other damage.

1.03 RULES AND REGULATIONS

A. All work and materials shall be in full accordance with regulations of the California Administrative Code, Title 24, State Building Standards, National Electrical Code, Local City and County Code, applicable regulations of local utility companies, and any other applicable laws or regulations.
B. Nothing in these specifications is to be construed to permit work not conforming to the above codes.
C. Drawings and/or specifications shall take precedence when work and material called for exceed code requirements.

1.04 DRAWINGS AND SPECIFICATIONS

A. Any error or omissions of detail in either Drawings or Electrical Specifications shall not relieve Contractor from correctly installing all materials necessary for complete and operating electrical systems.
B. Locate and install all equipment so that it will be readily accessible for operation and maintenance.

1.05 MATERIAL AND EQUIPMENT

A. Unless otherwise noted, all material and equipment shall be new, of the type, capacity and quality specified and free from defects. Material shall bear the label of, or be listed by the Underwriter's Laboratories unless of a type for which label or listing service is not provided.
B. Materials shall be of the same brand or manufacturer throughout for each class of material or equipment wherever possible.

1.06 SUBMITTALS

A. Forward all submittals in related groups. Individual or incomplete submittals are not acceptable. Submit six copies of shop drawings for the following items:
1. Conduits and wires
2. Wiring devices.

1.07 SITE EXAMINATION

A. Examine the site and premises prior to bidding to determine the conditions under which the work is to be performed. No allowances will be made for extra expenses incurred due to failure to examine the premises or to discover site conditions which affect the work.

1.08 WORKMANSHIP

A. Good workmanship shall be evidenced in the installation of all electrical materials and equipment. Equipment shall be level, plumb and true with the structure and other equipment. All materials shall be firmly secured in place and adequately supported and permanent. The requirements of the codes are minimum standards.
B. Work covered or concealed before being inspected and approved shall be opened and uncovered upon request without any cost to the Owner and/or the Architect.

1.09 MANUFACTURER'S DIRECTIONS

A. Follow manufacturer's directions where these directions cover points not included on the Drawings or in the Specifications.

1.10 DEMOLITION

A. Provideas required to accommodate new work called for and as noted. Work shall be done carefully to avoid damage to surfaces not being replaced.

1.11 SERVICE INTERRUPTIONS

A. The facility shall remain in operation during the period of construction. Interruption of power service, if required, shall be done on weekends or nightshift hours with no added expense to the Owner. Any interruptions must be scheduled in writing with the Owner, forty-eight (48) hours in advance and must meet with their approval.

1.12 AS- BUILT DRAWINGS

A. The Contractor shall furnish one set of clean "AS-BUILT" marked blue line prints to the Owner at completion of the project showing all work including the circuiting.

1.13 GUARANTEE

A. The Contractor shall guarantee that all work executed under this Section will be free from defects of materials and workmanship for a period of one year from the date of final acceptance of this work and further guarantee that he will, at his own expense, repair and replace all such defective work, and all other work damaged thereby, which becomes defective during the term of the guarantee.

PART 2 PRODUCTS

2.01 MATERIALS

A. Unless otherwise noted, all material and equipment shall be new, of the type, capacity and quality specified and free from defects. Material shall bear the label of, or be listed by, the Underwriter's Laboratories unless of a type for which label of listing service is not provided.
B. Materials shall be of the same brand or manufacturer throughout for each class of material or equipment wherever possible.
C. Equipment shall be the product of a manufacturer who has, for a period of not less than five (5) years, been in successful manufacture of the equipment and who has a nationally distributed catalog covering ratings and specifications of said equipment.

2.02 RACEWAY

A. All conduits installed indoors shall be electrical metallic tubing (EMT) with compression type fittings. Conduits exposed outdoors shall be rigid steel. Raceway exposed or other finished areas shall be Wiremold or equal. Underground conduit shall be schedule 40 PVC.

B. Conduits shall be 3/4 inch minimum in size.

2.03 CONDUCTORS

A. All conductors shall be in conduit. Minimum size shall be #12 AWG.
B. Color code all branch circuits and feeders as follows:

120/208 Volts		277/480 Volts	
Phase A	Black	Phase A	Brown
Phase B	Red	Phase B	Orange
Phase C	Blue	Phase C	Yellow
Neutral	White	Neutral	Gray
Ground	Green	Ground	Green

C. Conductors in sizes up through #10 AWG shall have solid color finish as listed above.
D. Color coding shall be continuous and consistent throughout the work.
E. All insulation shall be 600V minimum type THHN/THWN.
F. Conductors shall be copper, 98% conductivity.
G. All conductors shall be identified and tagged at all electrical panels, pullboxes, devices and termination points with Partex PA sleeve type markers.
H. Splices: For conductors #10 and smaller, pre-insulated type connectors, 3M Scotchloks, T & B Piggys or equal, nylon self-insulated type. Splices #8 and larger use compression type connector, insulated with Scotchtape No. 88. Wire splicing devices shall be sized according to manufacturer's recommendations.
I. Cable Ties: For wire training and clamping in cabinets and enclosures use nylon cable ties.
J. Swab conduits before installing cables, and exercise care in pulling to avoid damage or disarrangement of conductors, use approved grips.

2.04 BOXES

A. Shall be of size and shape best suited for particular application, properly code sized for number of wires and conduits passing through or terminating therein. Support boxes directly to structural members, framing or blocking by means of screws, anchors or bolts.

2.05 MOTOR DISCONNECT SWITCH

A. Motor disconnect switch shall be heavy duty type HD, fused, fully enclosed, Nema 1 for indoor installation and Nema 3R for outdoor installation . The fused disconnect switch shall be provided with resection clips and fuses rated as required by the manufacturer of the equipment that is to disconnect.
B. Switch shall be provided with a cover interlock to prevent opening of the switch door when switch is in the "on" position, means of defeating the interlock mechanism shall be provided to allow authorized personnel to access the switch interior with the switch in the on position.

2.06 SUPPORT SYSTEMS

A. As manufactured by Unistrut, Kindorf or Power strut.
B. Clamp, one hole malleable iron.

2.07 GROUNDING SYSTEMS

A. Acceptable device manufacturer's: Burndy, O.Z., Appleton and "Erico" Caldwell.
B. Install ground wire in all feeder and branch circuit conduits.

PART 3 EXECUTION

3.01 COORDINATION

A. Coordinate work with that of all contractors on the job for an efficient and effective completion of the project. Refer to the contract documents of other trades for construction details.

3.02 WORKING SPACE

A. Adequate working space shall be provided around electrical equipment in strict compliance with the N.E.C. and Electrical Safety Orders.

3.03 GROUNDING

A. Permanently and effectively ground all services, raceway systems, supports, and utilization apparatus. Obtain good contact between conduit, tubing and fittings, cabinets, outlet boxes, and equipment.
B. Provide grounding conductor inside all conduits.

3.04 RACEWAY INSTALLATION

A. Exposed raceways shall run parallel or at right angles to wall or ceiling.
B. Paint all exposed conduits, Wiremold and boxes to match existing architectural finishes.

3.05 MOTOR DISCONNECT SWITCH INSTALLATION

A. Motor disconnect switch shall be installed near the motor that is disconnect.
B. Disconnect switch shall be mounted on building wall or on steel channel structures as required for each particular equipment.
C. Provide nameplate indicating panel and circuit designation. Nameplate shall be phenolic, black face with white core.
D. Fuses for motors shall be dual element time delay type.

3.06 WIRING, EMERGENCY SYSTEM

A. Wiring from an emergency source or emergency source distribution overcurrent protection to emergency loads shall be kept entirely independent of all other wiring and equipment.
B. Identification of all boxes and enclosures for emergency circuits shall be permanently marked so they will be readily identified as a component of emergency circuit or system.

3.07 TESTS

A. Test all wiring and connections for continuity and grounds before the equipment are connected and where such tests indicate faulty insulation or other defects, they shall be located, repaired and tested again. Electrical loads shall be balanced at the panelboard.

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No. C-23919
REN. 9-30-19
STATE OF CALIFORNIA

File Number
N/A

Application Number
N/A

Project No.
135208

Drawing No
E0.2

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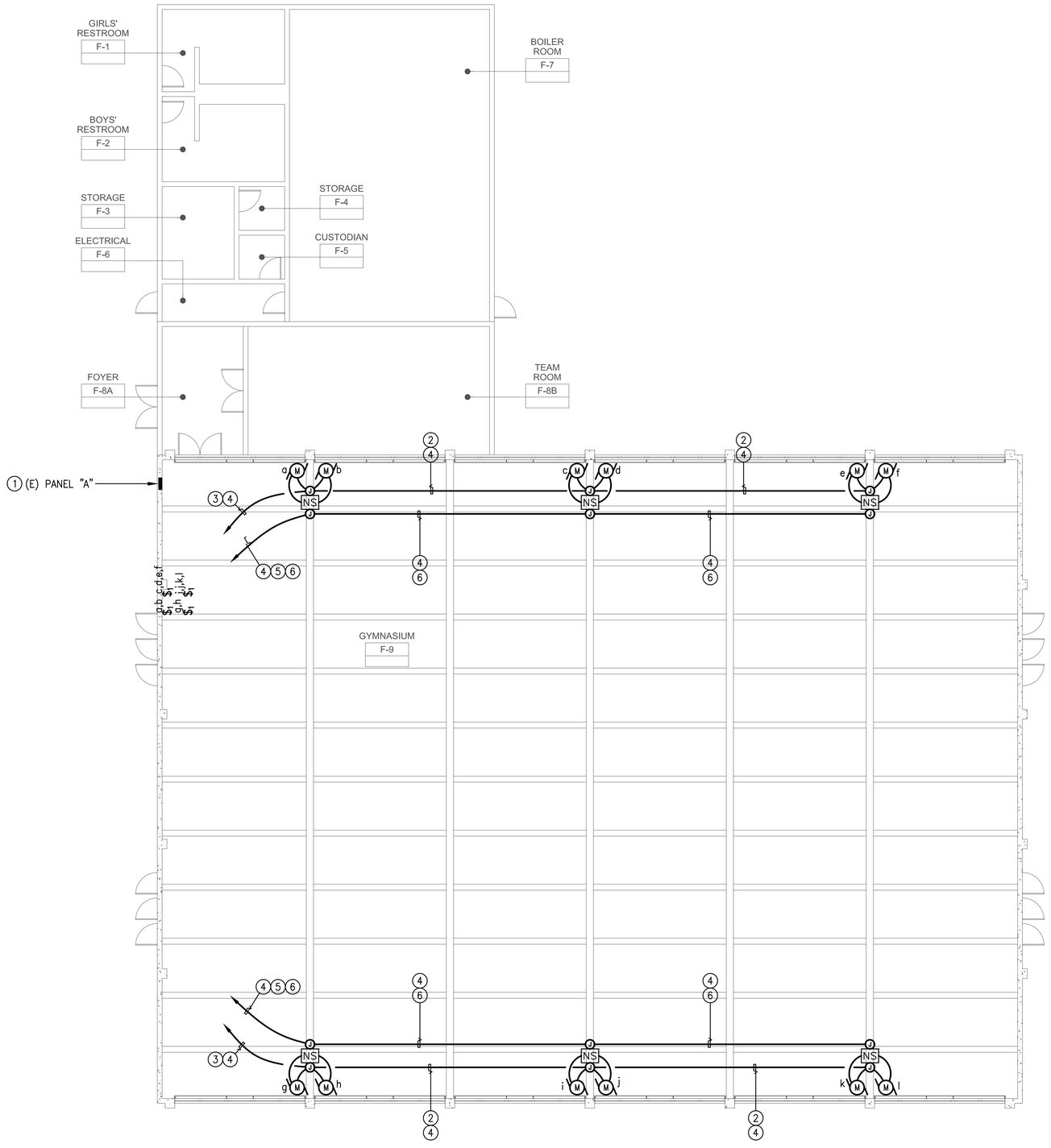
XREFS: 36X24 CD TITLE BLOCK.dwg

Plot Date: 3/8/2018 2:51:25 PM



GENERAL NOTE:

1. FIELD VERIFY AND USE THE (E) 1/2"C (EMPTY) WHEREVER POSSIBLE.

SHEET NOTES:

(1) SEE PANEL SCHEDULE FOR WORK REQUIRED.

(2) 3/4"C, 2 #12 (MOTOR) AND 1 #12 (G).

(3) HOMERUN 3/4"C, 2#12 AND 1 #12 (G) TO (E) PNL "A".

(4) ROUTE CONDUIT ON THE WALL AND PROVIDE CONDUIT SUPPORT AT 8 FT INTERVAL MAXIMUM.

(5) HOMERUN 3/4"C WITH LOW VOLTAGE CAT6 CABLES TO MOTOR CONTROL SWITCHES.

(6) 3/4"C (LOW VOLTAGE CABLE). SEE SHEET E2.1 FOR MORE INFORMATION.

(7) SEE SHEET E2.0 AND E2.1 FOR MORE INFORMATION.

(8) COORDINATE WITH MECHOSYSTEMS SO THAT MECHOSYSTEMS DEALER SHALL CREATE AND ADDRESS TABLE AND INPUT THE ADDRESSES AS NEEDED.

1 / E1.0 ELECTRICAL PLAN (7)(8)
SCALE: 1/8"=1'-0"

0 4 8 16 24
GRAPHIC SCALE IN FEET

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PROJECT NO. 175-18-02

REGISTERED PROFESSIONAL ENGINEER
KENNETH S. UNGAI
No. 11537
Exp. 6/30/19
ELECT.
STATE OF CALIFORNIA

Key Plan

Project Title

ANDREW HILL HS
GYM WINDOW COVERINGS

3200 SENTER ROAD
SAN JOSE, CA 95111

EAST SIDE UNION HIGH SCHOOL DISTRICT

No	Revisions/Submissions	Date

Drawing Title

ELECTRICAL PLAN

Regulatory Agency Approval

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES

N/A

AC_____FLS_____SS_____
DATE_____

Architect Seal

LICENSED ARCHITECT
WILLIAM E. GOULD
No. C-23919
REN. 9-30-19
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XREFS: 36X24 CD TITLE BLOCK.dwg

Plot Date: 3/8/2018 2:52:02 PM

STANDARD ELECTRICAL NOTES

ALL ELECTRICAL CONTROL EQUIPMENT AS INDICATED IS FURNISHED, INSTALLED AND WIRED BY THE ELECTRICAL CONTRACTOR.

ELECTRICAL CONTROL EQUIPMENT MAY CONTAIN ELECTROMECHANICAL RELAYS, ADJUSTMENT POINTS, FUSES, INDICATOR LIGHTS, AND OTHER INTERFACE ELECTRONICS. THESE MUST BE CONVENIENTLY ACCESSIBLE FOR FUTURE SERVICING AND ADJUSTMENTS DURING NORMAL WORKING HOURS AND WITHOUT DISRUPTION TO THE EXISTING OPERATIONS. THIS EQUIPMENT SHALL BE LABELED BY THE ELECTRICAL CONTRACTOR INDICATING SHADE LOCATIONS AND SPECIFIC MOTORS WHICH ARE CONTROLLED, AND IT SHALL BE LABELED AT THE CONTROL EQUIPMENT AND CIRCUIT BREAKER.

SOME POINT–TO–POINT DIAGRAMS MAY NOT INCLUDE MOTOR DISCONNECT PLUGS, JUNCTION BOXES AND CABLE RACEWAYS THAT MAY OTHERWISE BE ESSENTIAL FOR A COMPLETE INSTALLATION. THE POINT–TO–POINT DIAGRAMS MAY ALSO NOT DEPICT A COMPLETE OR ACCURATE WIRING ARRANGEMENT THAT MEETS ALL APPLICABLE NATIONAL AND LOCAL CODES FOR A GIVEN PROJECT LOCATION.

WARNING:

- WIRING MUST BE ACCOMPLISHED BY A QUALIFIED ELECTRICIAN IN ACCORDANCE WITH ALL THE APPLICABLE NATIONAL AND LOCAL CODES.
- IMPROPER WIRING CAN RESULT IN PERSONAL INJURY AND / OR DAMAGE TO EQUIPMENT AND SURROUNDINGS.
- READ ALL INSTRUCTIONS BEFORE INSTALLING. IT IS IMPORTANT FOR THE SAFETY OF EACH PERSON TO FOLLOW THESE INSTRUCTIONS. IF YOU ARE UNSURE OF ANY PART, STOP AND CONTACT A QUALIFIED INSTALLER.
- CODE REQUIRES AN ACCESSIBLE DETACHABLE POWER CORD, SWITCH OR DISCONNECT AT THE POINT OF INSTALLATION FOR THE DRIVE WHICH MUST BE LOCATED AWAY FROM MOVING PARTS.
- SAVE ALL INSTRUCTIONS.
- ALL ELECTRICAL CONTROL EQUIPMENT MUST BE WIRED IN ACCORDANCE WITH THE WIRING DIAGRAMS PREPARED BY MECHOSYSTEMS, AND IN ACCORDANCE WITH ALL APPLICABLE NATIONAL (I.E. UNITED STATES: N.E.C.) AND LOCAL CODES.
- BEFORE INSTALLING OR SERVICING REMOVE ANY UNNECESSARY CORDS AND DISABLE ANY EQUIPMENT NOT NEEDED FOR POWERED OPERATION.
- TO AVOID THE RISK OF FIRE, SHOCK OR DEATH TURN OFF THE POWER AT THE CIRCUIT BREAKER OR FUSE BEFORE WIRING OR SERVICING EQUIPMENT. TEST THAT POWER IS OFF BEFORE PROCEEDING.
- MAKE SURE THAT THE MAINS VOLTAGE MATCHES THE RATINGS ON THE PRODUCT LABELS.
- LINE VOLTAGE WIRING SHOULD ONLY BE CONNECTED USING COPPER OR COPPER–CLAD ALUMINUM WIRE WITH THE CC–CU OR CU–CC MARKINGS.
- AN OUTLET OR TERMINAL BOX TO WHICH CONNECTIONS TO THE POWER SUPPLY CIRCUIT WILL BE MADE SHALL BE LOCATED SO THAT, AFTER THE APPLIANCE HAS BEEN INSTALLED, SUCH CONNECTIONS ARE ACCESSIBLE FOR INSPECTION.
- THE LEADS INTENDED TO BE SPLICED IN THE FIELD SHALL HAVE INSULATION NOT LESS THAN 1/32 IN. (0.8MM) THICK.
- A HOLE THROUGH WHICH INSULATED WIRES PASS IN A SHEET METAL WALL SHALL BE PROVIDED WITH A SMOOTH, ROUNDED PROTECTIVE BUSHING.

GREEN MOTOR WIRES ARE TO BE FASTENED TO THE GROUNDING POINT ON GROUNDED JUNCTION BOXES, CONDUITS OR OTHER SUITABLE BUILDING GROUND LOCATIONS AS REQUIRED BY CODE.

- DO NOT CONNECT LOW VOLTAGE WIRES TO HIGH VOLTAGE POWER. IMPROPER WIRING CAN RESULT IN PERSONAL INJURY AND/OR DAMAGE TO THE EQUIPMENT.
- LOW VOLTAGE CABLES SHOULD NOT BE ROUTED NEAR POWER LINES OR ELECTRICAL DEVICES SUCH AS LIGHTING BALLASTS, DIMMERS AND LED DRIVERS THAT MAY EXPOSE THE SYSTEM TO EXCESSIVE ELECTRICAL NOISE.
- WHEN CRIMPING RJ CONNECTORS ON MODULAR CABLE OR CAT5/6 CABLE, CARE MUST BE TAKEN TO FOLLOW CRIMPING INSTRUCTIONS IN ORDER TO ENSURE A RELIABLE CONNECTION. THE OUTER JACKET MUST BE CAPTURED WITHIN THE CRIMP ON THE CONNECTION IN ORDER TO ENSURE PROPER STRAIN RELIEF.
- PRE–CRIMPED TELEPHONE CABLES WILL NOT WORK.
- OBSERVE WIRING GUIDELINES IN THE LOW VOLTAGE CABLING LEGEND IN ORDER TO ENSURE MAXIMUM CABLE LENGTHS AND MAXIMUM NODE COUNT ARE PROPERLY FOLLOWED.

EXCEPT FOR THE DRAPERY OPERATOR (SHADE MOTOR), ALL EXPOSED DEAD METAL PARTS AND ALL DEAD METAL PARTS WITHIN THE ENCLOSURE SHALL BE RELIABLY CONNECTED TO THE EQUIPMENT–BONDING TERMINAL OR LEAD.

CODE REQUIRES AN ACCESSIBLE, DETACHABLE POWER CORD OR SWITCH AT THE POINT OF INSTALLATION AND AWAY FROM MOVING PARTS FOR THE SHADE MOTOR.

ALL TUBULAR SHADE MOTORS ARE LIMITED DUTY CYCLE MOTORS THAT ARE NOT RATED FOR CONTINUOUS USE. THEY POSSESS BUILT–IN THERMAL OVERLOAD PROTECTION WHICH LIMITS THEIR CONTINUOUS USE TO APPROXIMATELY FIVE (5) MINUTES. ONCE PROTECTION ACTIVATES, OPERATION WILL RESUME AGAIN AFTER THE INTERNAL TEMPERATURES WITHIN THE MOTOR RETURN TO BELOW THE THERMAL LIMIT. UP TO A THIRTY (30) MINUTE REST MAY BE REQUIRED IN ORDER FOR THE MOTOR TO SUSTAIN REGULAR OPERATION ONCE AGAIN.

(E) PANEL # A	LOCATION				FEEDER SIZE SEE SINGLE LINE DIAGRAM					
VOLTS 120/208V,3PH,4W	MLO [X] FEED THRU LUGS [ ]				FLUSH X SURFACE					
AMPS	MCB [ ] MCB AMPS				NEMA 1 [X] NEMA 3R [ ]					
AIC RATING 10K	BUS AMPS 200									
	LOAD (VA)			BKR/	CKT		BKR/	LOAD (VA)			
DESCRIPTION	A	B	C	POLE	No.		POLE	A	B	C	DESCRIPTION
(E) LOAD				20/1	1	2	20/1				(E) LOAD
					3	4					
					5	6					
					7	8					
					9	10					
					11	12					
					13	14					
					15	16					
					17	18					
					19	20					
					21	22					
					23	24					
(1) WHISPERSHADE MOTOR G THRU L	1300			20/1	25	26	20/1	1300			WHISPERSHADE MOTOR A THRU F (1)
(E) LOAD				20/1	27	28	20/1				(E) LOAD
SUBTOTAL	1300							1300			SUBTOTAL
TOTAL ADDED LOAD 2.60 KVA; @ 208 VOLTS = 7.2 AMPS											

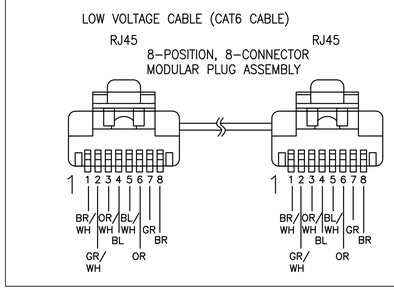
CABLE LEGEND

A	CAT6 – FOR LOW VOLTAGE DRY CONTACT CONNECTIONS 24AWG 4UTP (8–CONDUCTOR STRANDED UNSHIELDED TWISTED PAIR) TERMINATION: RJ–45 MODULAR PLUG CRIMPED (USOC) ON BOTH ENDS DISTANCE LIMITATION: 400' CUMULATIVE
B	CAT6 – FOR LOW VOLTAGE DRY CONTACT CONNECTIONS 24 AWG 3UTP (6–CONDUCTOR STRANDED UNSHIELDED TWISTED PAIR) TERMINATION: RJ–12 MODULAR PLUGS CRIMPED (USOC) ON BOTH ENDS DISTANCE LIMITATION: 400' CUMULATIVE

NOTES:

1. PARALLEL WIRING TO NEXT DEVICE PER BRANCH CIRCUIT CAPACITY. ALL CONNECTION MUST MEET NATIONAL AND LOCAL CODES AND REGULATIONS.
2. ADDRESS SCHEDULES REQUIRED.
3. MAXIMUM VOLTAGE FOR ALL UNMARKED CABLE IS 43.5 VDC.
4. LOW VOLTAGE CABLES SHOULD NOT BE ROUTED NEAR POWER LINES OR ELECTRICAL DEVICES SUCH AS LIGHTING BALLASTS, DIMMERS AND LED DRIVERS THAT MAY EXPOSE THE SYSTEM TO EXCESSIVE ELECTRICAL NOISE.

USOC CRIMPING INSTRUCTIONS EIGHT CONDUCTOR CABLES FOR NETWORK AND DRY CONTACT CONNECTIONS



CATX Crimp
PIN 1 – BROWN/WHITE, RS–485(A)
PIN 2 – GREEN/WHITE, V+
PIN 3 – ORANGE/WHITE, COM
PIN 4 – BLUE, B1
PIN 5 – BLUE/WHITE, B2
PIN 6 – ORANGE, B3
PIN 7 – GREEN, FB
PIN 8 – BROWN, RS–485(B)

SHEET NOTES:

(1) PROVIDE (N) CIRCUIT BREAKER IN SPACES, SIZE AS SHOWN. (N) CIRCUIT BREAKER TYPE AND INTERRUPTING RATE SHALL MATCH (E).

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KENNETH S. UNGAI
No. 11537
Exp. 6/30/19
ELECT.
STATE OF CALIFORNIA

Key Plan

Project Title

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GYM WINDOW COVERINGS

3200 SENTER ROAD
SAN JOSE, CA 95111

EAST SIDE UNION HIGH SCHOOL DISTRICT

No	Revisions/Submissions	Date

Drawing Title

SCHEDULE

Regulatory Agency Approval

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OFFICE OF REGULATION SERVICES

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AC. FLS. SS.
DATE

Architect Seal

LICENSED ARCHITECT
WILLIAM E. GOULD
No. C-23919
REN. 9-30-19
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135208

Drawing No
E2.0

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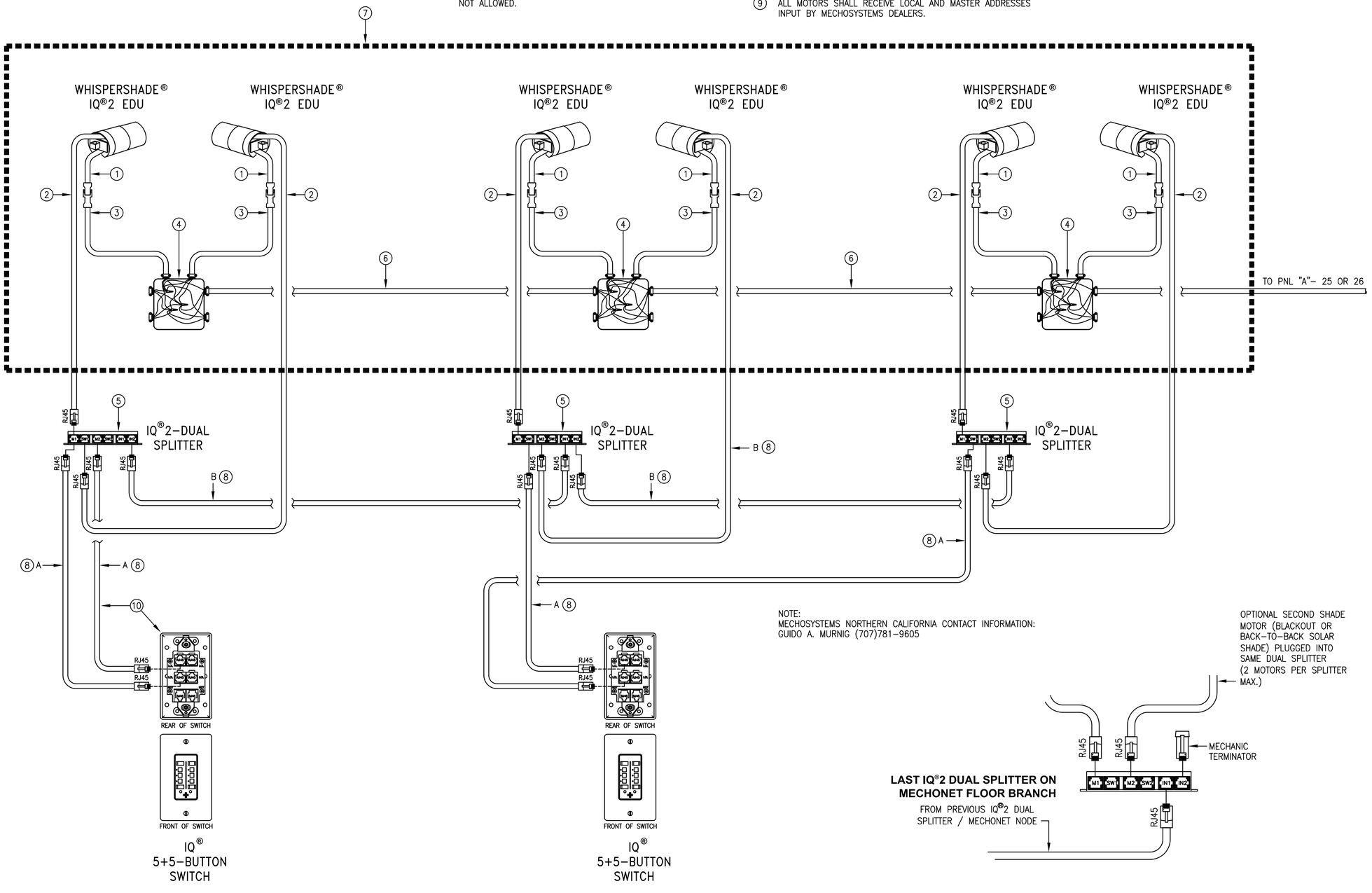
Plot Date: 3/8/2018 3:22:02 PM

SHEET NOTES:

1. MOTOR LEAD ±1'–0" PRE–WIRED TO MOTOR.
2. LOW VOLTAGE MOTOR LEAD ±1'–6" PRE–WIRED TO MOTOR.
3. J–BOX LEAD ±10'–0" (LENGTH OF LEAD CABLE AS NOTED IS APPROXIMATE ONLY, FIELD VERIFY FOR EXACT MOTOR LOCATIONS AND ORDER STANDARD LEAD LENGTH AS REQUIRED).
4. JUNCTION BOX
5. ALL IQ2 DUAL SPLITTERS TO BE CONNECTED DIRECTLY TO LOW VOLTAGE MOTOR LEAD. EXTENSION PATCH CABLES ARE NOT ALLOWED.
6. 120 V BRANCH IN, SEE NOTE (2) ON SHEET E1.0 FOR MORE INFORMATION.
7. ACTUAL LINE VOLTAGE TERMINATION IS SUBJECT TO FIELD CONDITIONS. PROVIDE ALL ACCESSORIES FOR SPECIFIC JOB SITE REQUIREMENTS.
   LINE VOLTAGE PARALLEL WIRING TO NEXT DEVICE PER BRANCH CIRCUIT CAPACITY. ALL CONNECTION MUST MEET NATIONAL AND LOCAL CODES AND REGULATIONS.
8. SEE DWG. E2.0 FOR LOW VOLTAGE CABLE LEGEND.
9. ALL MOTORS SHALL RECEIVE LOCAL AND MASTER ADDRESSES INPUT BY MECHOSYSTEMS DEALERS.
10. MECHOSYSTEMS SHALL ASSIGNED THIS SWITCH AND SWITCH LEG CONTROLLER WITH MASTER ADDRESS.



1 E2.1 WHISPERSHADE® IQ®2 EDU TYPICAL WIRING DIAGRAM (9)
NOT TO SCALE

NOTE:
MECHOSYSTEMS NORTHERN CALIFORNIA CONTACT INFORMATION:
GUIDO A. MURNIG (707)781–9605

2 E2.1 MECHONET FLOOR BRANCH TERMINATION DETAIL
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WIRING DIAGRAM

Regulatory Agency Approval

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AC. FLS. SS.
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Architect Seal

LICENSED ARCHITECT
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