LA COUNTY DEPARTMENT OF PUBLIC WORKS

6631 STEPHENS RANCH ROAD
LA VERNE, CA 91750
UNC-MECH240510001771

CAMP AFFLERBAUGH CCTV SYSTEM
LA DPW SPEC NO. 7701
BID SET

AFF	ABOVE FINISH FLOOR	FS	FULL SIZE	RES	RESILIENT		
AP	ACCESS PANEL	FURN	FURNISHED(FURNITURE)	RET	RETURN		
ACOUS	ACOUSTICAL			RA	RETURN AIR		
ACT	ACOUSTICAL CEILING TILE	GA	GAGE	RAG	RETURN AIR GRILLE		
ADJ	ADJACENT	GAL	GALLON	REV	REVISION		
ADJUST	ADJUSTABLE	GI	GALVANIZED IRON	RH	RIGHT HAND		
AGG	AGGREGATE	GEN	GENERAL	RO	ROOF DRAIN		
A/C	AIR CONDITIONING	GC	GENERAL CONTRACTOR	RFG	ROOFING		
AHU	AIR HANDLING UNIT	GL	GLASS(GLAZING)	RM	ROOM		
ALT	ALTERNATE	GR	GRADE(GRADING)	SCHED	SCHEDULE		
ALUM	ALUMINUM	GMP	GUARANTEED MAXIMUM PRICE	SECT	SECTION		
AB	ANCHOR BOLT	GD	GUARD	SHTHG	SHEATHING		
AVCD	ANODIZED	GYP.	GYPSUM	SHT	SHEET		
APPROX	APPROXIMATELY			SHLV	SHELVES(SHELVING)		
ARCH	ARCHITECT(URAL)			SIM	SIMILAR		
ASPH	ASPHALT			SC	SOLID CORE		
ATN	ATTENUATION / ATTENUATING	HDCP	HANDICAPPED	STC	SOUND TRANSMISSION COEFFICIENT		
AV	AUDIO VISUAL	HDWD	HARDWOOD				
AUTO	AUTOMATIC	HD	HEAD				
AUX	AUXILIARY	HVAC	HEATING/VENTILATING/AIR CONDITIONING	SPEC	SPECIFICATION		
AVE	AVENUE			SQ	SQUARE		
AVG	AVERAGE			SF	SQUARE FOOT/FEET		
		H	HEIGHT				
BB	BACK TO BACK	HC	HOLLOW CORE	STAB	STABILIZED		
B&B	BALED AND BURLAPPED	HM	HOLLOW METAL	SSTL	STAINLESS STEEL		
		HORIZ	HORIZONTAL	STD	STANDARD		
BSMT	BASEMENT	HP	HORSEPOWER	STA	STATION		
BM	BEAM	HB	HOSE BIBB	STL	STEEL		
BRG	BEARING	HR	HOUR	STOR	STORAGE		
B/A	BENCH MARK	HYD	HYDRANT	STRUCT	STRUCTURE/STRUCTURAL		
BTW	BETWEEN						
BLK	BLOCK	IN	INCH	SAD	SUPPLY AIR DIFFUSER		
BLDG	BLDG(NG)	INCL	INCLUDE				
BD	BOARD	INFO	INFORMATION	SUSP	SUSPENDED		
BF	BOTH FACES	ID	INSIDE DIAMETER	SW	SWITCH		
BOT	BOTTOM	IPS	INSIDE PIPE SIZE	SYN	SYNTHETIC		
BRKT	BRACKET	INSUL	INSULATION(INSULATING)				
BLDG	BUILDING			TKBD	TACK BOARD		
BUR	BUILT UP ROOF(ING)	INT.	INTERIOR	TEL	TELEPHONE		
				TTC	TELEPHONE TERMINAL CABINET		
		JAN	JANITOR				
CAB	CABINET	JT	JOINT	TV	TELEVISION		
C.O.	CASED OPENING	JST	JOIST	TEMP	TEMPERED		
CSMT	CASEMENT			TRZO	TERRAZZO		
CIP	CAST IN PLACE	KD	KNOCK-DOWN	TCOC	TEXTURE COATING ON CONCRETE		
D.I.PIPE	CAST IRON PIPE						
CB	CATCH BASIN	LAM	LAMINATE(D)	THK	THICKNESS		
C.L.G	CEILING	LAV	LAVATORY	THRES	THRESHOLD		
CEM	CEMENT	LH	LEFT HAND	TOC	TOP OF CURB		
CTR	CENTER	LGTH	LENGTH	TOS	TOP OF STEEL		
C-C	CENTER TO CENTER	LV	LEVEL	TOSB	TOP OF STRUCTURAL SLAB		
		LT	LIGHT				
CT	CERAMIC TILE	LWT	LIGHTWEIGHT	TRANS	TRANSFORMER		
CHBD	CHALKBOARD	LWC	LIGHTWEIGHT CONCRETE	T	TREAD		
CLR	CLEAR(ANCE)			TYP	TYPICAL		
CCTV	CLOSED CIRCUIT TELEVISION	LIN	LINEAR				
		LL	LIVE LOAD	UL	UNDERWRITERS LABORATORY		
CL	CLOSET						
CPMF	COLD FORMED METAL FRAMING	MACH	MACHINE	UofC	UNIVERSITY OF CALIFORNIA		
		MAINT	MAINTENANCE	UNO	UNLESS NOTED OTHERWISE		
COL	COLUMN	MH	MANHOLE				
COMP	COMPOSITION	MFR	MANUFACTURER	LR	URINAL		
COMPRES	COMPRESSIBLE	MAS	MASONRY				
CONC	CONCRETE	MO	MASONRY OPENING	VAC	VACUUM		
CMU	CONCRETE MASONRY UNIT	MATL	MATERIAL	VERT	VERTICAL		
COND	CONDITION	MAX	MAXIMUM	VEST	VESTIBULE		
CONF	CONFERENCE	MECH	MECHANICAL	VCT	VINYL COMPOSITE TILE		
CONST	CONSTRUCTION	MEP	MECHANICAL, ELECTRICAL, PLUMBING	VWC	VINYL WALLCOVERING		
CONT	CONTINUOUS						
CONTR	CONTRACTOR	MBRNB	MEMBRANE				
CPCI	CONTRACTOR PROVIDED, INSTALLED	MTL	METAL	WH	WALL HUNG		
	CONTRACTOR INSTALLED	ML	METAL LATH	WC	WATER CLOSET		
		MIN	MINIMUM	WR	WATER RESISTANT		
CJ	CONTROL JOINT	MISC	MISCELLANEOUS	WP	WATERPROOF(ING)		
CG	CORNER GUARD	MR	MOISTURE RESISTANT	WT	WEIGHT		
COR	CORRIDOR			WMF	WELD WIRE FABRIC		
CORRU	CORRUGATED	MTD	MOUNTED	WF	WIDE FLANGE		
CNTR	COUNTER	MTG	MOUNTING	W	WIDTH		
CSK	COUNTERSINK	MULL	MULLION	WDW	WINDOW		
CU FT	CUBIC FOOT/FEET	NRC	NOISE REDUCTION COEFFICIENT	W/	WITH		
CU YD	CUBIC YARD			W/I	WITHIN		
C	CURB	NOM	NOMINAL	W/O	WITHOUT		
		NIC	NOT IN CONTRACT	WD	WOOD		
DWP/FG	DAMP PROOFING	NTS	NOT TO SCALE	W.P.	WORK POINT		
DL	DEAD LOAD	NO. or #	NUMBER	WI	WROUGHT IRON		
DEFL	DEFLECTION						
D	DEPTH	OFF	OFFICE	&	AND		
DTL	DETAIL	OC	ON CENTER(S)		ANGLE		
DIAG	DIAGONAL	OPNG	OPENING	@	AT		
DIA	DIAMETER	OP	OPERABLE PARTITION		CENTERLINE		
DIM	DIMENSION				CHANNEL		
DISC	DISCONNECT	OPP	OPPOSITE	/	PER		
DISP	DISPENSER	OPH	OPPOSITE HAND		PLATE		
DR	DOOR	O/A	OUTSIDE AIR	Ø	ROUND/DIAMETER		
DBL	DOUBLE	OD	OUTSIDE DIAMETER		SQUARE		
DN	DOWN	OA	OVERALL				
DS	DOWNSPOUT	ORD	OVERFLOW ROOF DRAIN				
DWG	DRAWING	OH	OVERHEAD				
DF	DRINKING FOUNTAIN	OFCI	OWNER FURNISHED, CONTRACTOR INSTALLED				
DWC	DRYWALL FURRING CHANNEL						
EA	EACH	OFCI	OWNER FURNISHED, OWNER INSTALLED				
EW	EACH WAY						
ESR	ELASTIC SHEET ROOFING						
ELAS	ELASTICELASTOMERIC	PTD	PAINTED				
		PR	PAIR				
EWC	ELECTRIC WATER COOLER	PNL	PANEL				
		PRKG	PARKING				
EWH	ELECTRIC WATER HEATER	PART	PARTITION				
		PVMT	PAVEMENT				
ELEC	ELECTRICAL	PVG	PAVING				
EL	ELEVATION	PERF	PERFORATED				
ELEV	ELEVATOR	PLAST	PLASTER				
EMER	EMERGENCY	PLAS	PLASTIC				
EQ	EQUAL	PLUMB	PLUMBING				
EQUIP	EQUIPMENT	PLWD	PLYWOOD				
EXH	EXHAUST	POL	POLISHED				
(E) / EXIST	EXISTING	PVC	POLYVINYL CHLORIDE				
EXPAN	EXPANSION						
EJ	EXPANSION JOINT	PCT	PORCELAIN CERAMIC TILE				
EP	EXPLOSION PROOF						
EXP	EXPOSED	PCP	PORTLAND CEMENT PLASTER				
EXT	EXTERIOR						
EFCB	EXTERIOR FACE OF BUILDING	PCF	POUNDS PER CUBIC FOOT/FEET				
		PSF	POUNDS PER SQUARE FOOT/FEET				
FM	FACTORY MUTUAL						
FCU	FAN COIL UNIT	PSI	POUNDS PER SQUARE INCH				
FIN	FINISH(ED)						
FA	FIRE ALARM	PC	PRECAST				
FC	FIRE CODE	PFP	PREFINISHED PANEL				
FEC	FIRE EXTINGUISHER CABINET	P.L.	PROPERTY LINE				
FHC	FIRE HOSE CABINET						
FH	FIRE HYDRANT	QTY	QUANTITY				
FVC	FIRE VALVE CABINET	QT	QUARRY TILE				
FRPF	FIREPROOF	RAD	RADIUS				
FIXT	FIXTURE	RECEP	RECEPTACLE				
FLSHG	FLASHING	RECEPT	RECEPTION				
F.P.VL	FLOOD PROTECTION	REC	RECESSED				
FLR	FLOOR	RECOM	RECOMMENDATION				
FD	FLOOR DRAIN	REF.	REFER TO				
FLRG	FLOORING	RCP	REFLECTED CEILING PLAN				
FL	FLOW LINE	REG	REGULATION				
FLUOR	FLUORESCENT	REINF	REINFORCED				
FSEC	FOOD SERVICE EQUIPMENT CONTRACTOR	REBAR	REINFORCING BAR				
		REQD	REQUIRED				
FT	FOOT/FEET						
FTG	FOOTING						

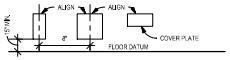
ABBREVIATIONS N/A 26

GENERAL NOTES

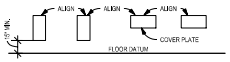
1. U.O.N., SPECIFIC NOTES AND DETAILS ON DRAWINGS SHALL TAKE PRECEDENCE OVER GENERAL NOTES AND TYPICAL DETAILS. SPECIFIC NOTES ON DETAILS APPLY TO SIMILAR CONDITIONS.
2. THE STRUCTURAL, MECHANICAL, PLUMBING, AND ELECTRICAL DRAWINGS AS WELL AS THE DRAWINGS OF OTHER CONSULTANTS ARE SUPPLEMENTARY TO THE ARCHITECTURAL DRAWINGS. IT SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO CHECK WITH THE ARCHITECTURAL DRAWINGS BEFORE THE INSTALLATION OF THE WORK SHOWN ON THE DRAWINGS OF CONSULTANTS. THE CONTRACTOR SHALL BRING ANY DISCREPANCIES BETWEEN THE ARCHITECTURAL DRAWINGS AND THE DRAWINGS OF THE CONSULTANTS PERTINENT TO THE ATTENTION OF THE ARCHITECT FOR CLARIFICATIONS. ANY WORK INSTALLED IN CONFLICT THE ARCHITECTURAL DRAWINGS AND NOT BROUGHT TO THE ARCHITECTS ATTENTION SHALL BE CORRECTED BY THE CONTRACTOR AT THE CONTRACTORS EXPENSE AND AT NO EXPENSE TO THE OWNER OR THE ARCHITECT.
3. REFERENCE TO ANY DETAIL OR DRAWING IS FOR CONVENIENCE ONLY AND DOES NOT LIMIT THE APPLICATION OF SUCH A DRAWING OR DETAIL.
4. U.O.N., OR REFERENCED ON ARCHITECTURAL DRAWINGS, ALL DETAILS ARE TYPICAL.
5. THE CONTRACT DOCUMENTS INDICATED THE CONCEPT AND POTENTIAL METHOD OF EXECUTING THE WORK. FIELD MODIFICATIONS MAY BE REQUIRED AND SHALL BE PART OF THE SCOPE OF WORK.
6. THE INTENTION OF THE CONTRACT DOCUMENTS IS TO INCLUDE ALL LABOR AND MATERIALS, EQUIPMENT AND TRANSPORTATION NECESSARY FOR THE COMPLETE AND PROPER EXECUTION OF THE WORK.
7. NO MODIFICATIONS FROM THE DOCUMENTS SHALL BE CONDUCTED PRIOR TO THE APPROVAL OF THE OWNER AND ARCHITECT.
8. DISCREPANCIES IN DRAWINGS OR SPECIFICATIONS, OR BETWEEN DRAWINGS, SPECIFICATIONS AND OR SITE CONDITIONS SHALL BE REVIEWED WITH THE ARCHITECT PRIOR TO PROCEEDING WITH THE WORK.
9. REFER TO STRUCTURAL, MECHANICAL, PLUMBING, AND ELECTRICAL DRAWINGS FOR EQUIPMENT ANCHORAGE, HVAC, PLUMBING, LIGHTING, COMMUNICATION, DATA AND POWER REQUIREMENTS.
10. THE DESIGN, ADEQUACY AND SAFETY OF ERECTION, BRACING, SHORING, TEMPORARY SUPPORTS, ETC., IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE STABILITY OF THE STRUCTURE AND PROVIDE NECESSARY BRACING PRIOR TO THE APPLICATION OF ALL SHEAR WALLS, ROOF, AND FLOOR DIAPHRAGMS, AND FINISH MATERIALS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE INITIATING, MANUFACTURING AND SUPERVISING ALL SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE WORK.
11. THE ARCHITECT AND ARCHITECTS CONSULTANTS SHALL HAVE NO RESPONSIBILITY FOR THE DISCOVERY, PRESENCE, HANDLING, REMOVAL OR DISPOSAL OF OR EXPOSURE OF PERSONS TO HAZARDOUS MATERIALS IN ANY FORM AT THE PROJECT SITE, INCLUDING BUT NOT LIMITED TO ASBESTOS, ASBESTOS PRODUCTS, POLYCHLORINATED BIPHENYL (PCB) OR OTHER TOXIC SUBSTANCES.
12. IF THE CONTRACTOR ASCERTAINS AT ANY TIME THAT REQUIREMENTS OF THE CONTRACT DOCUMENTS CONFLICT WITH, OR ARE IN VIOLATION OF APPLICABLE LAWS, CODES, REGULATIONS AND ORDINANCES, THE CONTRACTOR SHALL NOT PROCEED WITH WORK IN QUESTION, EXCEPT AT THE CONTRACTOR'S OWN RISK, UNTIL THE ARCHITECT HAS BEEN NOTIFIED IN WRITING AND WRITTEN DETERMINATION IS MADE BY THE ARCHITECT. WHERE COMPLETED OR PARTIALLY COMPLETED WORK IS DISCOVERED TO BE IN VIOLATION WITH APPLICABLE LAWS, CODES, REGULATIONS AND ORDINANCES, CONTRACTOR SHALL BE REQUIRED TO REMOVE THAT WORK FROM THE PROJECT AND REPLACE SUCH WORK WITH ALL NEW COMPLYING WORK AT NO ADDITIONAL COST TO THE OWNER.

DIMENSIONING NOTES

1. THE DRAWINGS REFLECT GENERAL ARRANGEMENT, DESIGN AND EXTENT OF WORK, AND ARE NOT TO BE SCALED FOR MEASUREMENTS. THE DRAWINGS ARE PARTLY DIAGRAMMATIC AND ARE NOT INTENDED TO BE AN EXACT REPRESENTATION OF FIELD CONDITIONS OR TO SERVE AS THE CONTRACTORS SHOP DRAWINGS.
2. DO NOT SCALE DRAWINGS. WRITTEN DIMENSIONS TAKE PRECEDENCE. DIMENSIONS SHALL GOVERN AND LARGE SCALE DETAILS SHALL GOVERN OVER SMALLER SCALE DRAWINGS.
3. "EXISTING", "THK", "SIZE TO FIT", F.V., AND SIMILAR PHRASES REQUIRE THE CONTRACTOR TO VERIFY AND COORDINATE DIMENSIONS AND CONDITIONS INDICATED IN THE DRAWINGS WITH THE ACTUAL FIELD CONDITIONS. DISCREPANCIES SHALL BE REPORTED TO THE ARCHITECT FOR DIRECTION ON HOW TO PROCEED.
4. U.O.N., DIMENSIONS ARE SHOWN TO CENTERLINE OF COLUMNS, TO FACE OF CONCRETE, OR TO FACE OF FINISH OF EXTERIOR AND INTERIOR PARTITION. ALL CEILING HEIGHTS INDICATED ARE FROM FINISH OF FLOOR TO FINISH OF CEILING.
5. DOORS NOT DIMENSIONED AND SHOWN JAMB TIGHT SHALL BE SET 4" FROM PERPENDICULAR WALL TO OUTER EDGE OF DOOR JAMB.
6. U.O.N., RECEPTACLES APPEARING NEXT TO EACH OTHER ON THE PLAN BUT NOT DIMENSIONED SHALL BE EIGHT (8") APART AND MEASURED FROM CENTERLINE TO CENTERLINE.
7. UNLESS OTHERWISE NOTED, RECEPTACLES SHALL BE FIFTEEN (15") INCHES IN HEIGHT ABOVE THE FINISHED FLOOR (AS MEASURED FROM THE RECEPTACLE CENTERLINE TO THE FLOOR DATUM)
8. U.O.N., ADJACENT COVER PLATES WITH DIFFERING SIZES SHALL BE CONFIGURED SO THAT THE TOPS ALIGN AS FOLLOWS:



9. WHEN ADJACENT COVER PLATES ARE THE SAME SIZE, THE CONFIGURATIONS SHALL BE AS FOLLOWS:



10. U.O.N., CEILING FIXTURES AND EQUIPMENT ARE TO BE CENTERED ON CEILING TILES WHEN IN LAY-IN CEILINGS.
11. U.O.N., LIGHT FIXTURES ON HARD SURFACE CEILINGS SHALL BE CENTER IN THE ROOM.
12. U.O.N., SCONCE LIGHTING AT PLUMBING FIXTURES SHALL BE CENTER ON THE FIXTURE.
13. ALL UNDERCABINET TASK LIGHTING SHALL BE INSTALLED AS CLOSE AS POSSIBLE TO THE BACK WALL AND CENTERED BELOW THE CABINETS.
14. WALLS NOT DIMENSIONED SHALL ALIGN WITH EXISTING WALLS OR BE ABUTTED OR APPLIED TO EXISTING WALLS PER DRAWINGS.

TEMPORARY CONSTRUCTION

1. CONTRACTOR SHALL ARRANGE FOR, IN ADVANCE WITH THE OWNER, CONSTRUCTION STORAGE AND STAGING AREAS NECESSARY TO COMPLETE THE WORK. ALL STORAGE AND STAGING AREAS SHALL BE RETURNED TO THE OWNER IN LIKE ORIGINAL CONDITION.
2. THE CONTRACTOR SHALL PROVIDE ADEQUATE MEANS TO PROTECT FINISHED PARTS OF THE MATERIALS AND EQUIPMENT AGAINST DAMAGE FROM ANY CAUSE DURING THE PROGRESS OF THE WORK UNTIL ACCEPTANCE BY THE OWNER.
3. CONTRACTOR SHALL MAKE EVERY EFFORT TO MAINTAIN A CLEAN WORK PLACE. DUST PALLIATION AND PREVENTION OF DUST CONTAMINATION OF NON-WORK SPACES WILL BE THE RESPONSIBILITY OF THE CONTRACTOR ON AN ON GOING DAILY BASIS. THE CONTRACTOR SHALL DEVELOP A SCHEDULE OF CONSTRUCTION WHICH INCLUDES THE NECESSARY ACTIONS TO MAINTAIN THE OPERATION OF THE TENANTS DURING THE CONSTRUCTION PROCESS.
4. CONTRACTOR SHALL MAKE NECESSARY CONNECTIONS TO EXISTING UTILITIES FOR TEMPORARY POWER AND WATER SUPPLIES, AND SHALL COORDINATE SUCH USE WITH THE OWNER PRIOR TO CONNECTION.

CONTRACTOR'S RESPONSIBILITY

1. CONTRACTOR SHALL CONTACT THE OWNER 48 HOURS IN ADVANCE OF ANY RESTRICTION OF OWNER ACCESS OR UTILITY OUTAGES, AUTHORIZATION FROM OWNER TO BE RECEIVED IN WRITING.
2. IN THE EVENT THE UTILITY SERVICES IS INTERRUPTED WITHOUT THE REQUIRED 48 HOURS NOTICE, THEN THE CONTRACTOR SHALL BE FINANCIALLY LIABLE FOR ALL DAMAGES SUFFERED BY THE OWNER DUE TO THE UNAUTHORIZED INTERRUPTION. RECONNECTION SHALL BE MADE IMMEDIATELY.
3. CONTRACTOR SHALL VISIT THE SITE TO AS TO FAMILIARIZE WITH EXISTING CONDITIONS AND SATISFY THEMSELVES TO THE NATURE AND SCOPE OF THE WORK. SUBMISSIONS OF PROPOSALS SHALL BE CONSTRUED AS EVIDENCE THAT SUCH EXAMINATION HAS BEEN MADE AND LATER CLAIMS FOR LABOR, EQUIPMENT OR MATERIALS REQUIRED, OR FOR DIFFICULTIES ENCOUNTERED WHICH COULD HAVE BEEN FORESEEN WITH SUCH EXAMINATION WILL NOT BE RECOGNIZED.
4. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS PRIOR TO BEGINNING WORK, AT ANY TIME SHOULD CONDITIONS ARISE WHEREIN THE INTENT OF THE DRAWINGS IS IN DOUBT OR WHERE THERE IS A DISCREPANCY BETWEEN THE DRAWINGS AND FIELD CONDITIONS THE ARCHITECT SHALL BE NOTIFIED IMMEDIATELY IN WRITING FOR CLARIFICATION.
5. THESE DRAWINGS DO NOT INCLUDE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY. SAFETY OF ALL PARTIES PRESENT ON THE JOB SITE IS SOLELY THE CONTRACTOR'S RESPONSIBILITY.
6. THE CONTRACTOR SHALL HAVE FULL RESPONSIBILITY AND CHARGE OF AND SHALL BE RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES, FOR SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE WORK, FOR THE ACTS OR OMISSIONS OF THE CONTRACTOR, SUBCONTRACTOR OR ANY OTHER PERSONS PERFORMING ANY WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
7. PROVIDE CONTINUOUS INSPECTION IN ACCORDANCE WITH THE BUILDING CODE FOR REINFORCED CONCRETE, PLACEMENT OF REINFORCING STEEL, STRUCTURAL STEEL, WELDING, STRUCTURAL MASONRY, FIELD WELDING AND HIGH STRENGTH BOLTS.
8. CONTRACTOR TO SCHEDULE CONSTRUCTION ACTIVITIES TO HAVE THE LEAST IMPACT ON EXISTING FUNCTIONS. CONTAIN ACTIVITIES SUCH AS THE USE OF JACKHAMMERS SHALL BE SCHEDULED AT SPECIAL TIMES. CONTACT THE DESIGNATED NOISE DISTURBANCE COORDINATOR FOR SCHEDULING OF ALL ACTIVITIES.
9. CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTION OF EXISTING HVAC FILTERS WITHIN AREA OF WORK.
10. CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF AND WHERE REQUIRED BY THE OSHPD FIRE MARSHAL, THE OPERATIONAL MAINTENANCE OF FIRE LIFE SAFETY DEVICES WITHIN THE AREA OF WORK.

EXISTING CONDITIONS

1. U.N.O. SURFACES ADJOINING AREAS OF DEMOLITIONS AND/OR NEW WORK SHALL BE PATCHED AND REFINISHED AS REQUIRED TO MATCH ADJACENT SURFACES IN ALL ASPECTS, INCLUDING FINISH MATERIAL, COLOR, TEXTURE, FIRE RATING AND SUBSTRATE.
2. PATCH SURFACES WHERE AFFECTED BY INSTALLATION OF NEW MECHANICAL, ELECTRICAL AND STRUCTURAL ITEMS. MATCH EXISTING ADJACENT SURFACES AND FINISHES EXCEPT WHERE OTHERWISE NOTED OR INDICATED.
3. WHERE NEW WALL OR CEILING CONTINUES EXISTING WALL OR CEILING, ALIGN VISIBLE NEW SURFACE WITH EXISTING. ADJUST AND STAGGER STUDS IF REQUIRED TO ALIGN STUDS IF REQUIRED TO ALIGN FACE OF WALLS.
4. THE CONTRACTOR SHALL SUPERVISE ALL CUTTING, PATCHING, REPAIRING, RESTORING, AND ANY NECESSARY ACTION TO COMPLETE THE WORK. THE CONTRACTOR SHALL RESTORE AND MATCH ANY DAMAGED WORK TO THE ORIGINAL CONDITION TO THE ARCHITECTS SATISFACTION.
5. EXISTING CONDITIONS AND OPERATIONS SHALL BE DOCUMENTED PRIOR TO INITIATION OF RENOVATION AND OR NEW CONSTRUCTION PROJECTS. THIS SHALL INCLUDE DOCUMENTATION OF ALL MECHANICAL ELECTRICAL STRUCTURAL CAPACITIES AND QUANTITIES. DOCUMENTATION OF EXISTING CONDITIONS SHOULD INCLUDE THE FOLLOWING:
   A. FIRE SUPPRESSION SYSTEMS AND ALARM SYSTEMS.
   B. VARIOUS COMMUNICATIONS SYSTEMS (INCLUDING TELEPHONE, NURSE CALL, OVERHEAD PAGING, TELEMETRY, DETATION, ELECTRONIC IMAGING)
   VARIOUS PLUMBING SYSTEMS (INCLUDING DOMESTIC WATER, TREATED WATER, WASTEWATER, PNEUMATIC TUBE, PNEUMATIC CONTROLS, MEDICAL GASES VACUUM)
   C. AND FIND ABNORMAL OR AFFECTED AREAS
   D. MAIN ELECTRICAL SERVICE AND ELECTRICAL SERVICE AFFECTED BY CONSTRUCTION (INCLUDING RATING AND ACTUAL LOADPEAK AND FEEDER SIZES, AS APPLICABLE, FOR LIFE SAFETY, EMERGENCY/CRITICAL, AND EQUIPMENT BRANCHES)

DEMOLITION

1. CONTRACTOR SHALL VERIFY THE LOCATION OF ALL EXISTING UTILITIES PRIOR TO COMMENCING CONSTRUCTION AND SHALL TAKE STEPS TO PROTECT SUBJECT UTILITIES, PERSONNEL AND PROPERTY AGAINST DAMAGE OR INJURY.
2. CONTRACTOR SHALL VERIFY LOCATION OF ALL REINFORCING STEEL AND CONDUIT IN EXISTING CONCRETE SLABS AND AVOID SAME. CONTRACTOR SHALL PREPARE SHOP DRAWINGS FOR REVIEW BY THE ARCHITECT AND/OR SECR PRIOR TO PROCEEDING WITH CORE OR SAW-CUTTING.
3. ALL REMOVED FIXTURES, EQUIPMENT, ACCESSORIES AND DOORS SHALL BE SALVAGED TO THE OWNER. ITEMS NOT WANTED BY OWNER SHALL BE DISCARDED OFF-SITE BY THE CONTRACTOR.
4. TEMPORARY STORAGE OF EQUIPMENT SHALL BE PROTECTED FROM VANDALISM. STORE IN A LOCATION THAT IS ACCEPTABLE TO THE OWNER.
5. PROTECT ALL ADJACENT AREAS FROM DUST, FUMES, SMOKE, WATER, WEATHER AND NOISE.
6. PROTECT ALL ADJACENT BUILDING COMPONENTS - FINISHES AND EQUIPMENT. SHOULD DAMAGE OCCUR, REPAIR, PATCH OR REPLACE AT NO ADDITIONAL COST TO THE OWNER.
7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTINUOUS CLEAN UP OF THE SITE OF ALL DEBRIS WHETHER CREATED BY THE CONTRACTOR'S WORK OR THE FAILURE OF THE CONTRACTOR'S SUB-CONTRACTORS TO CLEAN UP AFTER THEIR WORK.
8. ALL ABANDONED PLUMBING LINES, ELECTRICAL CONDUIT OR BOXES, A/C DUCTS OR DIFFUSERS AND TELEPHONE CABLES WILL BE REMOVED BACK TO CLOSEST FEEDER POINT.
9. DO NOT CUT, DRILL, NOTCH, CORE, ALTER, OR DAMAGE STRUCTURAL ELEMENTS OR FRAMING UNLESS SPECIFICALLY DETAILED ON APPROVED PLANS OR ACCEPTED BY THE SEORHOR AND OSHPD FIELD STAFF.

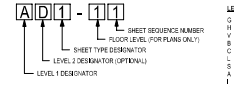
FIRE AND LIFE SAFETY MEASURES

1. REQUIRED MEANS OF EGRESS SHALL BE MAINTAINED DURING CONSTRUCTION AND DEMOLITION AT ALL TIMES.
2. TEMPORARY EXITING SHALL BE APPROVED BY THE FIRE MARSHAL AND THE LOCAL FIRE AUTHORITY. (CFC - 2019, SECTION 3311.2)
3. PROVIDE FIRE EXTINGUISHERS AS REQUIRED BY THE FIRE MARSHAL AND THE LOCAL FIRE AUTHORITY.
4. CONTRACTOR SHALL PROVIDE PROPER FIRE STOPPING AT EXISTING OR NEW FLOOR AND WALL PENETRATIONS FOR MECHANICAL, PLUMBING, ELECTRICAL AND FIRE SPRINKLER LINES AS REQUIRED PER THE APPROPRIATE U.L. DESIGN LISTING NUMBER.
5. FIRE PROTECTION SYSTEM SHALL BE MAINTAINED OPERATIONAL AT ALL TIMES DURING ALTERATIONS.
6. SMOKE DETECTORS SHALL BE COVERED OR REMOVE DURING ALTERATION WHEN REQUIRED BY THE FIRE MARSHAL OR THE LOCAL FIRE AUTHORITY. COVERINGS PLACED ON OR OVER FIRE PROTECTION DEVICES TO PROTECT THEM FROM DAMAGE DURING CONSTRUCTION PROCESSES SHALL BE IMMEDIATELY REMOVED UPON THE COMPLETION OF THE CONSTRUCTION PROCESSES IN THE ROOM OR AREA IN WHICH THE DEVICES ARE INSTALLED. (CFC - 2019, SECTION 3906.2)
7. FIRE RESISTIVE RATED CONSTRUCTION SHALL BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION. (CFC - 2019, SECTION 703.1)
8. CUTTING AND WELDING OPERATION SHALL BE IN ACCORDANCE WITH CHAPTER 35 OF THE FIRE CODE. (CFC - 2019, SECTION 3304.8)

NONCONFORMING CONDITIONS

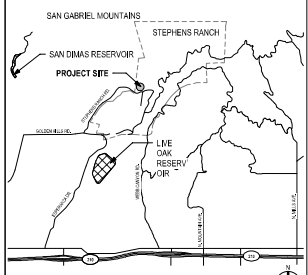
IN THE EVENT THAT AN EXISTING NONCONFORMING CONDITION IS DISCOVERED DURING THE COURSE OF CONSTRUCTION, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE OWNER AND ARCHITECT. THE ARCHITECT AND THE EOR WILL WORK WITH THE OSHPD FIELD STAFF TO DETERMINE THE NECESSARY COURSE OF ACTION PER CAN 2-1102.3 WITH REGARD TO THE EXISTING ELEMENT.

GENERAL NOTES N/A 17



LEVEL 1 DESIGNATORS		LEVEL 2 DESIGNATORS (OPTIONAL)		SHEET TYPE DESIGNATORS	
G	GENERAL	S	SITE	0	GENERAL (OPTIONAL USE AS DEMO)
H	HAZARDOUS MATERIALS	D	DEMOLITION	1	PLANS
V	SURVEY / MAPPING	E	ELEMENT	2	ELEVATIONS
B	GEOTECHNICAL	P	POWER	3	SECTIONS
C	CIVIL	L	LIGHTING	4	ENLARGED PLANS
L	LANDSCAPE			5	DETAILS
S	STRUCTURAL			6	SCHEDULES
A	ARCHITECTURAL			7	USER DEFINED
I	INTERIORS			8	USER DEFINED
Q	EQUIPMENT			9	3D VIEWS
F	FIRE PROTECTION				
P	PLUMBING				
M	MECHANICAL				
E	ELECTRICAL				
T	SECURITY				
R	RESOURCES				
X	OTHER DISCIPLINES				
Z	CONTRACTOR SHOP DRAWINGS				
G	OPERATIONS				

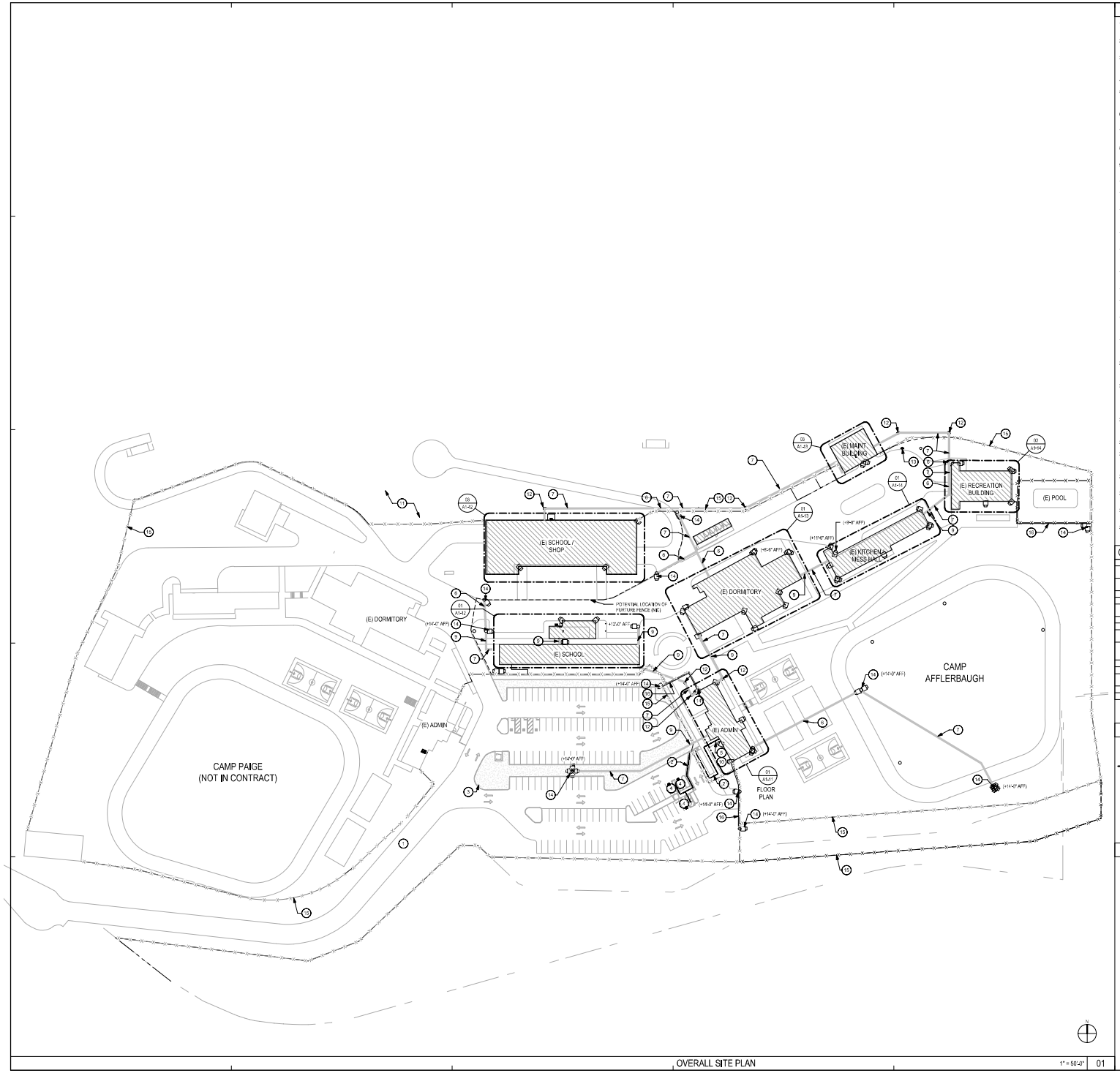
DRAWING SET ORGANIZATION 12" = 1'-0" 16

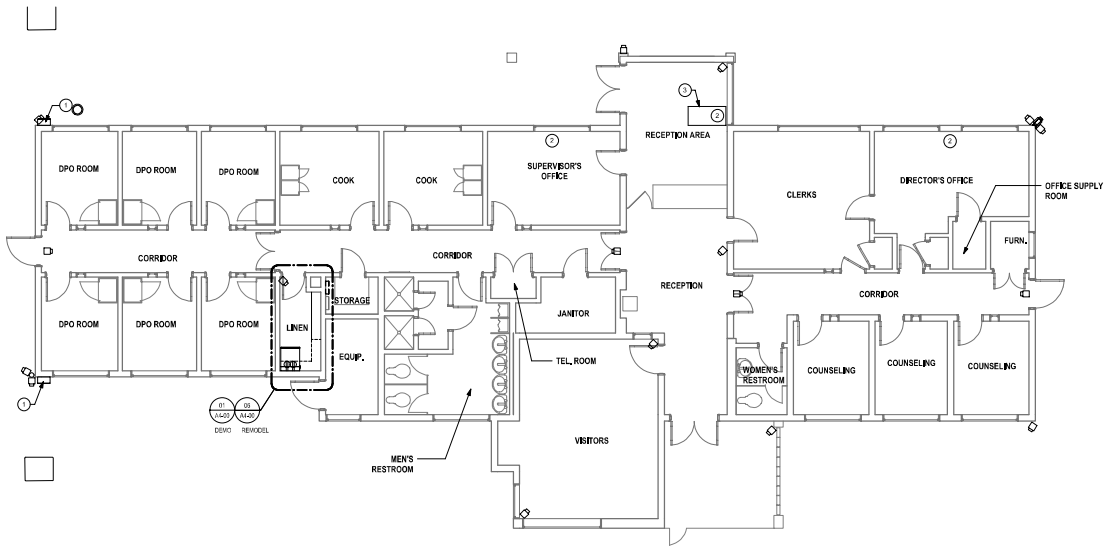


VICINITY MAP NTS 13

PROJECT SUMMARY N/A 09

FACILITY NAME:	AFFLERBAUGH PAROLE PROBATION CAMP
FACILITY ADDRESS:	6631 STEPHENS RANCH ROAD LA VERNE, CA 91750
PROJECT NAME:	AFFLERBAUGH PAROLE CAMP CCTV SYSTEM IMPLEMENTATION
CONSTRUCTION INFORMATION	
CONSTRUCTION TYPE:	TYPE 1
**MAIN O


(E) MAINT. BUILDING
(E) RECREATION BUILDING
(E) POOL
(E) SCHOOL / SHOP
(E) DORMITORY
(E) KITCHEN & MESS HALL
(E) DORMITORY
POTENTIAL LOCATION OF FUTURE FENCE (NIC)
(E) SCHOOL
(E) ADMIN
(E) ADMIN
CAMP PAIGE
(NOT IN CONTRACT)
CAMP AFFLERBAUGH
FLOOR PLAN
(+14'-0" AFF)
(+9'-6" AFF)
(+12'-0" AFF)
(+14'-0" AFF)
(+14'-0" AFF)
(+14



ADMIN BUILDING - OVERALL FLOOR PLAN 3/16" = 1'-0" 01

GENERAL NOTES

1. THE PROJECT IS LIMITED TO MACHINERY SPACE PER CSC 11B-203.5 AND IS EXEMPT FROM ADA UPGRADES.
2. REPAIR LANDSCAPE AREAS AND IRRIGATION AT TRENCHES LOCATIONS TO MATCH EXISTING PLANTS AND IRRIGATION. UPON ACCEPTANCE, CONTRACTOR SHALL MAINTAIN THE SEED/SOD OR PLANTS FOR A LIMITED DURATION OF 90 DAYS.
3. ALL CONDUITS AND BOXES SHOWN ON DRAWINGS ARE UNDERGROUND SYSTEMS UNLESS OTHERWISE NOTED.
4. SEE SHEET A5-00 FOR TRENCH AND EXTERIOR DETAILS.
5. SEE SHEET A5-00 FOR TYPICAL CONDUIT TRANSITION FROM UNDERGROUND TO ABOVE GROUND.
6. EQUIPMENT AND DEVICE LOCATIONS, CONDUIT ROUTING AND AREA OF SURFACE CONDITIONS ARE SHOWN APPROXIMATELY. FIELD VERIFY EXACT CONDITIONS AND MAKE ADJUSTMENT ACCORDINGLY.
7. CONTRACTOR SHALL ARRANGE FOR, IN ADVANCE WITH THE OWNER, CONSTRUCTION STORAGE AND STAGING AREAS NECESSARY TO COMPLETE THE WORK. ALL STORAGE AND STAGING AREAS SHALL BE RETURNED TO THE OWNER IN LIKE ORIGINAL CONDITION.
8. THE CONTRACTOR SHALL PROVIDE ADEQUATE MEANS TO PROTECT FINISHED PARTS OF THE MATERIALS AND EQUIPMENT AGAINST DAMAGE FROM ANY CAUSE DURING THE PROGRESS OF THE WORK AND UNTIL ACCEPTANCE BY THE OWNER.
9. CONTRACTOR SHALL MAKE EVERY EFFORT TO MAINTAIN A CLEAN WORK PLACE. DUST POLLUTION AND PREVENTION OF DUST CONTAMINATION OF NON-WORK SPACES WILL BE THE RESPONSIBILITY OF THE CONTRACTOR ON AN ON GOING, DAILY BASIS. THE CONTRACTOR SHALL DEVELOP A SCHEDULE OF CONSTRUCTION WHICH INCLUDES THE NECESSARY ACTIONS TO MAINTAIN THE OPERATION OF THE TENANT'S DURING THE CONSTRUCTION PROCESS.
10. CONTRACTOR SHALL MAKE NECESSARY CONNECTIONS TO EXISTING UTILITIES FOR TEMPORARY POWER AND WATER SUPPLIES, AND SHALL COORDINATE SUCH USE WITH THE OWNER PRIOR TO CONNECTION.
11. CONSTRUCTION HOURS SHALL BE DURING NORMAL BUSINESS HOURS.
12. CONTRACTOR IS RESPONSIBLE TO COMPLY WITH APPLICABLE PARKING REGULATIONS. ONSITE PARKING IS LIMITED. RADIUS MAP, STAGING AND SAFETY PLANS ARE REQUIRED TO BE SUBMITTED PRIOR TO PRE-CONSTRUCTION MEETING.
13. DURING CONSTRUCTION, ANCHOR ALL LOOSE TEMPORARY PLATES OVER TRENCHES TO PREVENT ACCESS TO TRENCHES AND USE AS A WEAPON IF LIFTED.

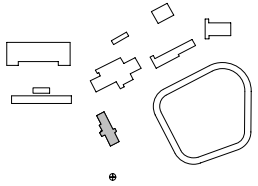
SHEET KEYNOTES

1	(N) WALL MOUNTED WEATHER PROOF ENCLOSURE, SEE E1 & 12/A5-20 AND TELECOM DRAWINGS FOR ADDITIONAL INFORMATION
2	(N) WORKSTATION, SEE E101, SE1-43 & SED-40 FOR ADDITIONAL INFORMATION. COORDINATE EXACT LOCATION OF WORKSTATION WITH LAC PW, PROBATION & FACILITY.
3	(N) OWNER-PROVIDED DESK

LEGEND

- (E) PARTITION WALL
- (N) PARTITION WALL
- DEMO
- (N) WIRELESS ACCESS POINTS, SEE TELECOM DRAWINGS FOR ADDITIONAL INFORMATION
- (N) SECURITY CAMERA, SEE SECURITY DRAWINGS FOR ADDITIONAL INFORMATION
- (M) (N) MICROPHONE, SEE SECURITY DRAWINGS FOR ADDITIONAL INFORMATION
- (N) AUDIO INTERFACE ADAPTER
- (N) POWER OVER ETHERNET SWITCH
- (N) NETWORK VIDEO RECORDER

KEYPLAN



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CONSULTANT

ARCHITECT SEAL

LICENSED ARCHITECT
STEPHEN MOY
NO. C-14859
08/31/25
RENEWAL DATE
STATE OF CALIFORNIA

CONSULTANT SEAL

BID SET

ISSUED BLOCK / HISTORY LOG

NO.	ISSUED	DATE
	PLAN CHECK	05/03/2024
	BID SET	11/11/2024

AGENCY APPLICATION NUMBER
UNC-MECH240510001771

AGENCY APPROVAL STAMP

PROJECT NAME
CAMP AFFLERBAUGH CCTV SYSTEM

FACILITY NAME
CAMP AFFLERBAUGH

PROJECT ADDRESS
6631 STEPHENS RANCH ROAD
LA VERNE, CA 91750

SHEET TITLE
PLAN - ADMIN BUILDING - OVERALL FLOOR PLAN

HZ PROJ. NO.	R31180.04	LA DPW SPEC NO.	TF01
		PERMIT NO.	

A1-11

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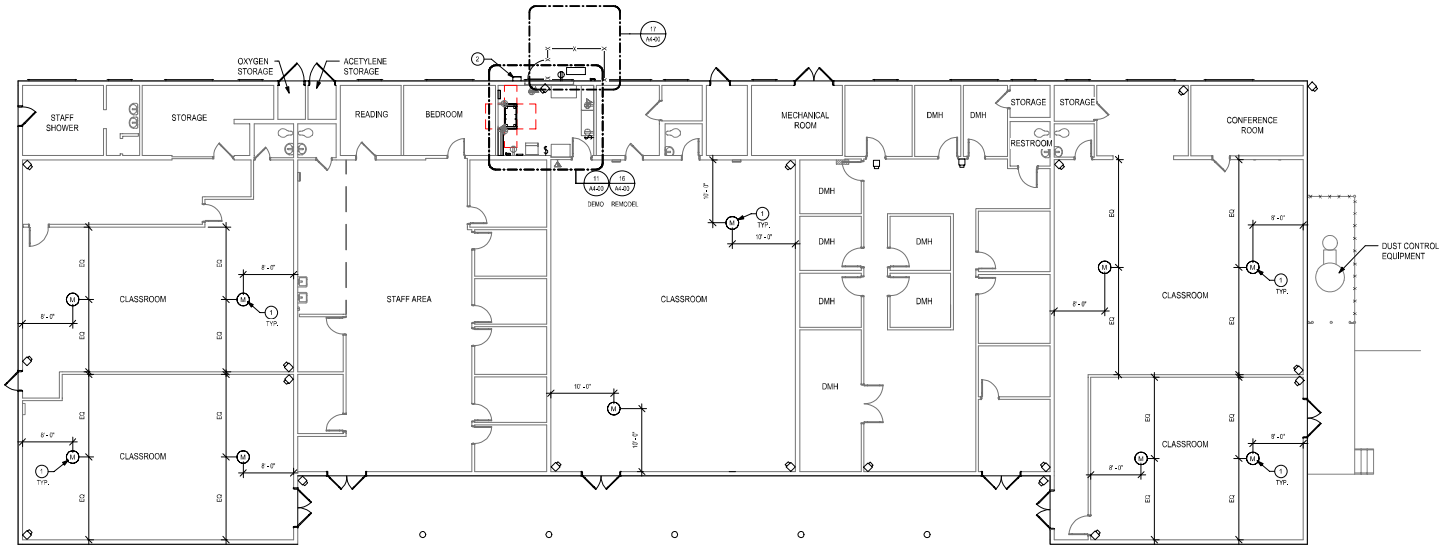
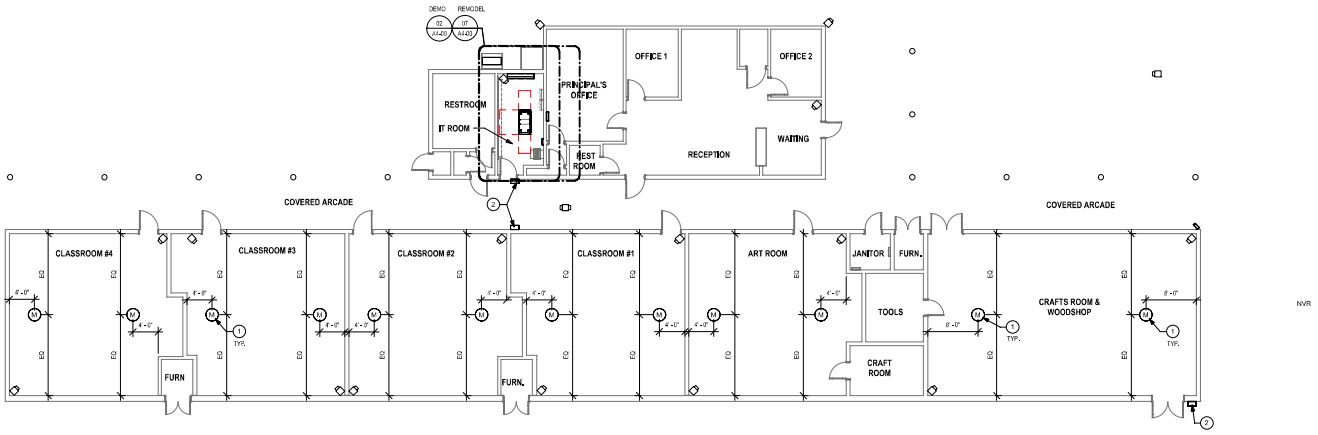


NORTH SCHOOL / SHOP BUILDING - OVERALL FLOOR PLAN 1/8" = 1'-0" 03



SOUTH SCHOOL BUILDING - OVERALL FLOOR PLAN 1/8" = 1'-0" 01

GENERAL NOTES

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2. REPAIR LANDSCAPE AREAS AND IRRIGATION AT TRENCHES LOCATIONS TO MATCH EXISTING PLANTS AND IRRIGATION. UPON ACCEPTANCE, CONTRACTOR SHALL MAINTAIN THE SEED/SOD OR PLANTS FOR A LIMITED DURATION OF 90 DAYS.
3. ALL CONDUITS AND BOXES SHOWN ON DRAWINGS ARE UNDERGROUND SYSTEMS UNLESS OTHERWISE NOTED.
4. SEE SHEET A5-00 FOR TRENCH AND EXTERIOR DETAILS.
5. SEE SHEET A5-00 FOR TYPICAL CONDUIT TRANSITION FROM UNDERGROUND TO ABOVE GROUND.
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13. DURING CONSTRUCTION, ANCHOR ALL LOOSE TEMPORARY PLATES OVER TRENCHES TO PREVENT ACCESS TO TRENCHES AND USE AS A WEAPON IF LIFTED.

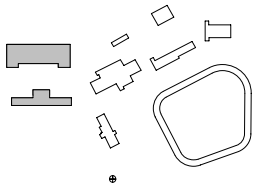
SHEET KEYNOTES

1	(N) MICROPHONE
2	(N) WALL MOUNTED WEATHER PROOF ENCLOSURE, SEE T11 & T0-A5.00 AND TELECOM DRAWINGS FOR ADDITIONAL INFORMATION

LEGEND

- (E) PARTITION WALL
- (N) PARTITION WALL
- DEMO
- (N) SECURITY CAMERA, SEE SECURITY DRAWINGS FOR ADDITIONAL INFORMATION
- (N) MICROPHONE, SEE SECURITY DRAWINGS FOR ADDITIONAL INFORMATION
- (N) AUDIO INTERFACE ADAPTER
- (N) POWER OVER ETHERNET SWITCH
- (N) NETWORK VIDEO RECORDER

KEYPLAN



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ALHAMBRA, CA 91803
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FAX: 626.979.5320

CONSULTANT

ARCHITECT SEAL
LICENSED ARCHITECT STEVEN HUNT NO. C-14859 08/31/25 RENEWAL DATE STATE OF CALIFORNIA

CONSULTANT SEAL

BID SET

ISSUED BLOCK / HISTORY LOG

NO.	ISSUED	DATE
	PLAN CHECK	05/03/2024
	BID SET	11/11/2024

AGENCY APPLICATION NUMBER
UNC-MECH240510001771

AGENCY APPROVAL STAMP

PROJECT NAME
CAMP AFFLERBAUGH CCTV SYSTEM

FACILITY NAME
CAMP AFFLERBAUGH

PROJECT ADDRESS
6631 STEPHENS RANCH ROAD
LA VERNE, CA 91750

SHEET TITLE
PLAN - SOUTH SCHOOL BUILDING AND NORTH SCHOOL/SHOP BUILDING - OVERALL FLOOR PLANS

HZ PROJ. NO.	IR31808.04	LA DPW SPEC NO.	TT01
		PERMIT NO.	

A1-12

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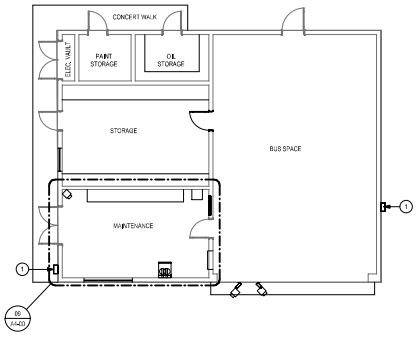
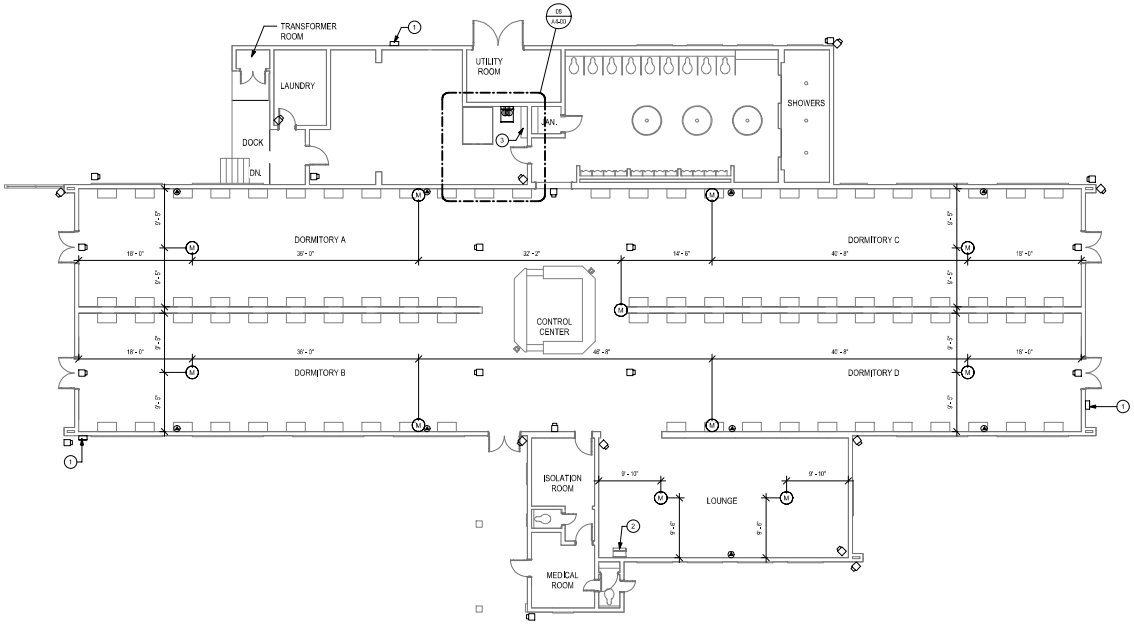


MAINTENANCE BUILDING - OVERALL FLOOR PLAN 1/8" = 1'-0" 03



DORMITORY BUILDING - OVERALL FLOOR PLAN 1/8" = 1'-0" 01

GENERAL NOTES

1. THE PROJECT IS LIMITED TO MACHINERY SPACE PER CSC 11B-203.5 AND IS EXEMPT FROM ADA UPGRADES.
2. REPAIR LANDSCAPE AREAS AND IRRIGATION AT TRENCHES LOCATIONS TO MATCH EXISTING PLANTS AND IRRIGATION. UPON ACCEPTANCE, CONTRACTOR SHALL MAINTAIN THE SEED/SOD OR PLANTS FOR A LIMITED DURATION OF 90 DAYS.
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13. DURING CONSTRUCTION, ANCHOR ALL LOOSE TEMPORARY PLATES OVER TRENCHES TO PREVENT ACCESS TO TRENCHES AND USE AS A WEAPON IF LIFTED.

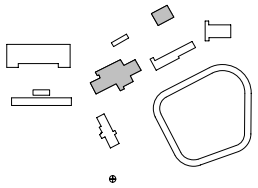
SHEET KEYNOTES

1	(N) WALL MOUNTED WEATHER PROOF ENCLOSURE. SEE T1 & T2/A2.40 TELECOM DRAWINGS FOR ADDITIONAL INFORMATION
2	(E) EF RACK TO REMAIN. PROTECT IN PLACE
3	DEMO (E) SHELVING, PATCH AND PAINT WALL TO MATCH ADJACENT WALL COLOR

LEGEND

- (E) PARTITION WALL
- (N) PARTITION WALL
- DEMO
- (N) WIRELESS ACCESS POINT. SEE TELECOM DRAWINGS FOR ADDITIONAL INFORMATION
- (N) SECURITY CAMERA. SEE SECURITY DRAWINGS FOR ADDITIONAL INFORMATION
- (N) MICROPHONE. SEE SECURITY DRAWINGS FOR ADDITIONAL INFORMATION
- (N) AUDIO INTERFACE ADAPTER
- (N) POWER OVER ETHERNET SWITCH
- (N) NETWORK VIDEO RECORDER

KEYPLAN



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FAX: 626.979.5320

CONSULTANT

ARCHITECT SEAL

LICENSED ARCHITECT
STEPHEN HOWE
No. C-14829
08/31/25
RENEWAL DATE
STATE OF CALIFORNIA

CONSULTANT SEAL

BID SET

ISSUED BLOCK / HISTORY LOG

NO.	ISSUED	DATE
	PLAN CHECK	05/03/2024
	BID SET	11/11/2024

AGENCY APPLICATION NUMBER
UNC-MECH240510001771

AGENCY APPROVAL STAMP

PROJECT NAME
CAMP AFFLERBAUGH CCTV SYSTEM

FACILITY NAME
CAMP AFFLERBAUGH

PROJECT ADDRESS
6631 STEPHENS RANCH ROAD
LA VERNE, CA 91750

SHEET TITLE
PLAN - DORMITORY BUILDING AND MAINTENANCE BUILDING - OVERALL FLOOR PLANS

HZ PROJ. NO.	R31180.04	LA DPW SPEC NO.	7701
		PERMIT NO.	

A1-13

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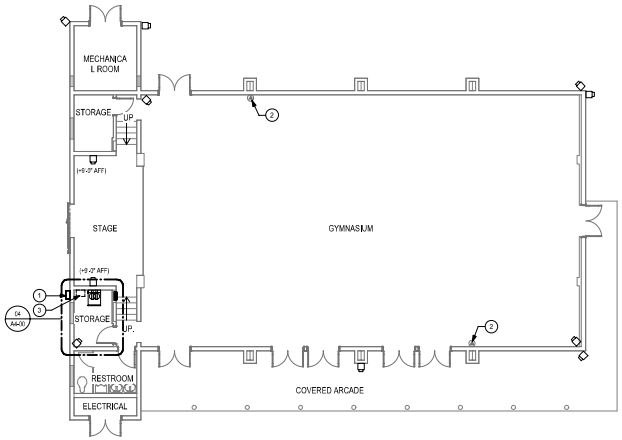
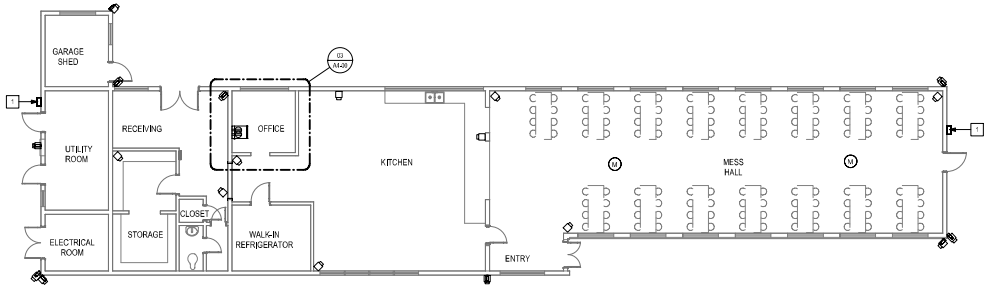


RECREATION BUILDING - OVERALL FLOOR PLAN 1/8" = 1'-0" 03



KITCHEN / MESSHALL BUILDING - OVERALL FLOOR PLAN 1/8" = 1'-0" 01

GENERAL NOTES

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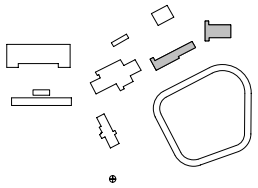
SHEET KEYNOTES

1	(N) WALL MOUNTED WEATHER PROOF ENCLOSURE, SEE 11 & 12/A5-00 AND TELECOM DRAWINGS FOR ADDITIONAL INFORMATION
2	(N) WIRELESS ACCESS POINT, SEE TELECOM DRAWINGS FOR ADDITIONAL INFORMATION
3	DEMO (E) SHELVING, PATCH AND PAINT WALL TO MATCH ADJACENT WALL COLOR

LEGEND

- (E) PARTITION WALL
- (N) PARTITION WALL
- DEMO
- (N) WIRELESS ACCESS POINT, SEE TELECOM DRAWINGS FOR ADDITIONAL INFORMATION
- (N) SECURITY CAMERA, SEE SECURITY DRAWINGS FOR ADDITIONAL INFORMATION
- (N) MICROPHONE, SEE SECURITY DRAWINGS FOR ADDITIONAL INFORMATION
- (N) AUDIO INTERFACE ADAPTER
- (N) POWER OVER ETHERNET SWITCH
- (N) NETWORK VIDEO RECORDER

KEYPLAN



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LA COUNTY DEPARTMENT OF PUBLIC WORKS

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CONSULTANT

ARCHITECT SEAL

LICENSED ARCHITECT
STEPHEN MOTT
No. C-14829
08/31/25
RENEWAL DATE
STATE OF CALIFORNIA

CONSULTANT SEAL

BID SET

ISSUED BLOCK / HISTORY LOG

NO.	ISSUED	DATE
	PLAN CHECK	05/03/2024
	BID SET	11/11/2024

AGENCY APPLICATION NUMBER
UNC-MECH240510001771

AGENCY APPROVAL STAMP

PROJECT NAME
CAMP AFFLERBAUGH CCTV SYSTEM

FACILITY NAME
CAMP AFFLERBAUGH

PROJECT ADDRESS
6631 STEPHENS RANCH ROAD
LA VERNE, CA 91750

SHEET TITLE
PLAN - KITCHEN AND GYMNASIUM BUILDINGS - OVERALL FLOOR PLANS

HZ PROJ. NO.	IR31190.04	LA DPW SPEC NO.	TT01
		PERMIT NO.	

A1-14

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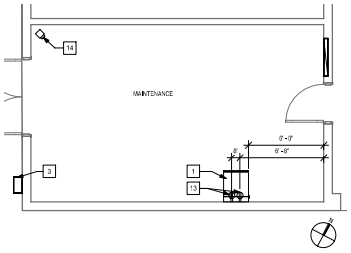
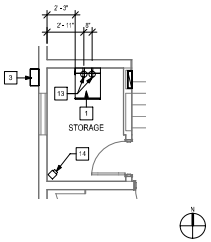
GENERAL NOTES

1. THE PROJECT IS LIMITED TO MACHINERY SPACE PER CSC 11B-203.5 AND IS EXEMPT FROM ADA UPGRADES.
2. REPAIR LANDSCAPE AREAS AND IRRIGATION AT TRENCHES LOCATIONS TO MATCH EXISTING PLANTS AND IRRIGATION. UPON ACCEPTANCE, CONTRACTOR SHALL MAINTAIN THE SEED/SOD OR PLANTS FOR A LIMITED DURATION OF 90 DAYS.
3. ALL CONDUITS AND BOXES SHOWN ON DRAWINGS ARE UNDERGROUND SYSTEMS UNLESS OTHERWISE NOTED.
4. SEE SHEET A5-00 FOR TRENCH AND EXTERIOR DETAILS.
5. SEE SHEET A5-00 FOR TYPICAL CONDUIT TRANSITION FROM UNDERGROUND TO ABOVE GROUND.
6. EQUIPMENT AND DEVICE LOCATIONS, CONDUIT ROUTING AND AREA OF SURFACE CONDITIONS ARE SHOWN APPROXIMATELY. FIELD VERIFY EXACT CONDITIONS AND MAKE ADJUSTMENT ACCORDINGLY.
7. CONTRACTOR SHALL ARRANGE FOR, IN ADVANCE WITH THE OWNER, CONSTRUCTION STORAGE AND STAGING AREAS NECESSARY TO COMPLETE THE WORK. ALL STORAGE AND STAGING AREAS SHALL BE RETURNED TO THE OWNER IN LIKE ORIGINAL CONDITION.
8. THE CONTRACTOR SHALL PROVIDE ADEQUATE MEANS TO PROTECT FINISHED PARTS OF THE MATERIALS AND EQUIPMENT AGAINST DAMAGE FROM ANY CAUSE DURING THE PROGRESS OF THE WORK AND UNTIL ACCEPTANCE BY THE OWNER.
9. CONTRACTOR SHALL MAKE EVERY EFFORT TO MAINTAIN A CLEAN WORK PLACE. DUST POLLUTION AND PREVENTION OF DUST CONTAMINATION ON NON-WORK SPACES WILL BE THE RESPONSIBILITY OF THE CONTRACTOR ON AN ON GOING, DAILY BASIS. THE CONTRACTOR SHALL DEVELOP A SCHEDULE OF CONSTRUCTION WHICH INCLUDES THE NECESSARY ACTIONS TO MAINTAIN THE OPERATION OF THE TENANT'S DURING THE CONSTRUCTION PROCESS.
10. CONTRACTOR SHALL MAKE NECESSARY CONNECTIONS TO EXISTING UTILITIES FOR TEMPORARY POWER AND WATER SUPPLIES, AND SHALL COORDINATE SUCH USE WITH THE OWNER PRIOR TO CONNECTION.
11. CONSTRUCTION HOURS SHALL BE DURING NORMAL BUSINESS HOURS.
12. CONTRACTOR IS RESPONSIBLE TO COMPLY WITH APPLICABLE PARKING REGULATIONS. ONSITE PARKING IS LIMITED. RADIUS MAP, STAGING AND SAFETY PLANS ARE REQUIRED TO BE SUBMITTED PRIOR TO PRE-CONSTRUCTION MEETING.
13. DURING CONSTRUCTION, ANCHOR ALL LOOSE TEMPORARY PLATES OVER TRENCHES TO PREVENT ACCESS TO TRENCHES AND USE AS A WEAPON IF LIFTED.

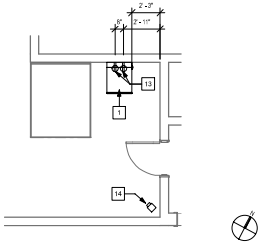


MAINTENANCE BUILDING - PARTIAL FLOOR PLAN 1/4" = 1'-0" 09

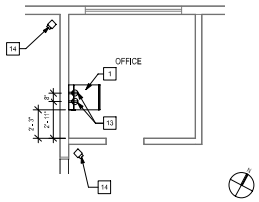


RECREATION - PARTIAL FLOOR PLAN 1/4" = 1'-0" 04

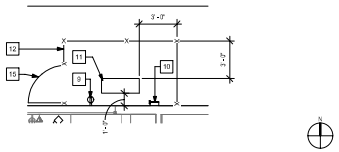
IDF ROOM 134 - FLOOR PLAN - REMODEL 1/4" = 1'-0" 12



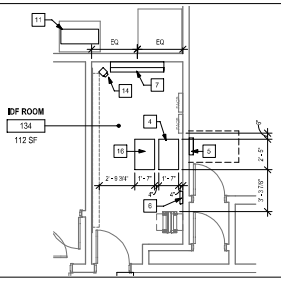
DORMITORY BUILDING - ENLARGED FLOOR PLAN 1/4" = 1'-0" 08



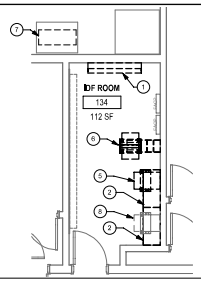
KITCHEN - PARTIAL FLOOR PLAN 1/4" = 1'-0" 03



NORTH SCHOOL / SHOP BUILDING CONDENSING UNIT 1/4" = 1'-0" 17



IDF ROOM 134 - FLOOR PLAN - REMODEL 1/4" = 1'-0" 07



IDF ROOM 134 - FLOOR PLAN - DEMO 1/4" = 1'-0" 02

REMODEL SHEET KEYNOTES

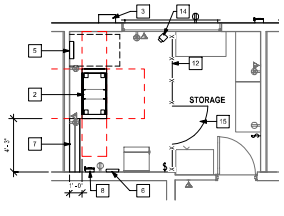
1	(N) CUBE 4" WALL MOUNTED CABINET, SEE TELECOM DRAWINGS FOR ADDITIONAL INFORMATION
2	(N) 4 POST FLOOR MOUNTED RACK AND CABINET ENCLOSURE, SEE TELECOM DRAWINGS FOR ADDITIONAL INFORMATION
3	(N) WALL MOUNTED WEATHER PROOF ENCLOSURE, SEE 11 & 12/A5-00 AND TELECOM DRAWINGS FOR ADDITIONAL INFORMATION
4	(E) 4 POST FLOOR MOUNTED RACK FOR DATA EQUIPMENT
5	(N) ELECTRICAL PANEL, SEE ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION
6	(N) SECONDARY BONDING BUSBAR, SEE ELECTRICAL & TELECOM DRAWINGS FOR ADDITIONAL INFORMATION
7	(N) WALL MOUNTED FAN COIL UNIT, SEE ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION
8	(N) FAN COIL UNIT DISCONNECT SWITCH, SEE ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION
9	(N) WEATHER PROOF RECEPTACLE, SEE ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION
10	(N) CONDENSING UNIT DISCONNECT SWITCH, SEE ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION
11	(N) CONDENSING UNIT ON (E) CONCRETE SLAB ON GRADE, SEE MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION
12	(N) CAGE WITH CHAIN LINK FENCING AROUND (N) CONDENSING UNIT, SEE 18/A5-00 FOR ADDITIONAL INFORMATION
13	(N) POWER OUTLET, SEE ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION
14	(N) CAMERA, SEE SECURITY DRAWINGS FOR ADDITIONAL INFORMATION
15	(N) CHAIN LINK FENCE GATE, SEE DETAIL 18/A5-00 FOR ADDITIONAL INFORMATION.
16	(N) OWNER-PROVIDED 4 POST FLOOR MOUNTED RACK FOR CONTRACTOR INSTALLED CCTV EQUIPMENT, SEE TELECOM DRAWINGS FOR ADDITIONAL INFORMATION

DEMO SHEET KEYNOTES

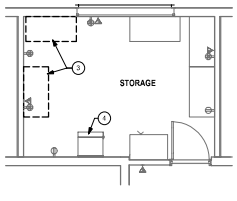
1	DEMO (E) HTON UNIT, SEE MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.
2	DEMO (E) CASEWORK, PATCH & PAINT WALL TO MATCH ADJACENT SURFACES.
3	REMOVE STORAGE RACKS AND CONTENTS & RETURN TO OWNER.
4	(E) IDF RACK TO REMAIN, PROTECT IN PLACE.
5	REMOVE (E) WALL MOUNTED RACK. (E) EQUIPMENT SHALL BE RETURNED TO OWNER.
6	REMOVE (E) 2-POST RACK. (E) EQUIPMENT SHALL BE RETURNED TO OWNER.
7	DEMO (E) PAD-MOUNTED CONDENSATE UNIT. PROTECT (E) CONCRETE PAD TO REMAIN IN PLACE.
8	(E) WALL MOUNTED RACK TO REMAIN. PROTECT IN PLACE.

LEGEND

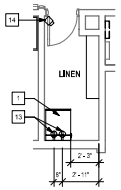
- (E) PARTITION WALL
- (N) PARTITION WALL
- DEMO
- (N) AUDIO INTERFACE ADAPTER
- (N) POWER OVER ETHERNET SWITCH
- (N) NETWORK VIDEO RECORDER



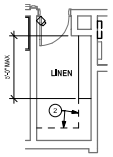
NORTH SCHOOL / SHOP BUILDING REMODEL - FLOORPLAN 1/4" = 1'-0" 16



N. SCHOOL / SHOP BUILDING - DEMO - FLOOR PLAN 1/4" = 1'-0" 11

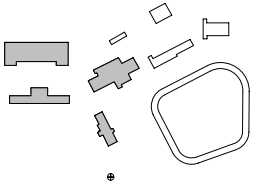


LINEN ROOM - FLOOR PLAN - REMODEL 1/4" = 1'-0" 06



LINEN ROOM - FLOOR PLAN - DEMO 1/4" = 1'-0" 01

KEYPLAN



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LICENSED ARCHITECT
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No. C-14859
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CAMP AFFLERBAUGH CCTV SYSTEM

FACILITY NAME
CAMP AFFLERBAUGH

PROJECT ADDRESS
6631 STEPHENS RANCH ROAD
LA VERNE, CA 91750

SHEET TITLE
ENLARGED PLAN - DEMO & REMODEL - FIRST FLOOR

HZ PROJ. NO.	R31160.04	LA DPW SPEC NO.	TTDI
		PERMIT NO.	

A4-00

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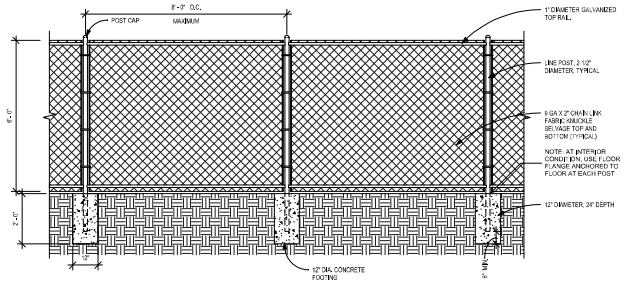
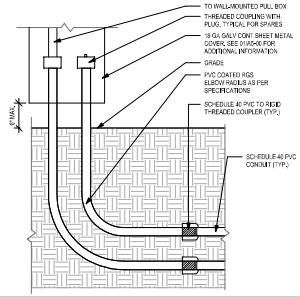
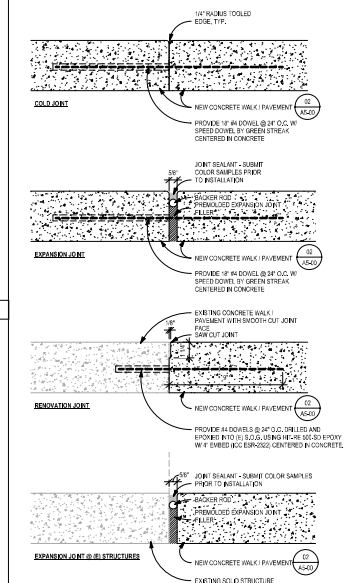


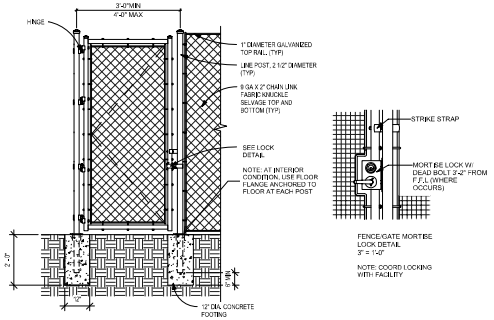
CHAIN LINK FENCE DETAIL 1/2" = 1'-0" 16



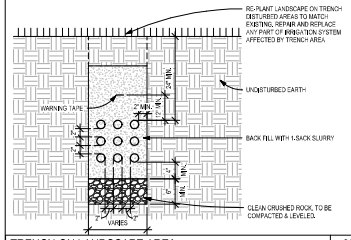
TYPICAL CONDUIT STUB-UP 1" = 1'-0" 09



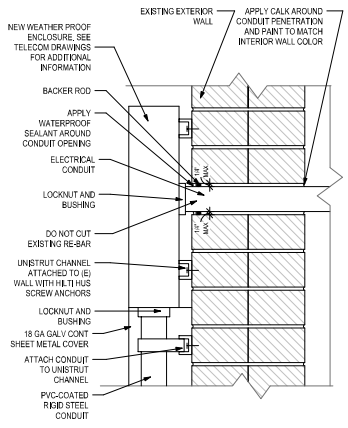
CONCRETE JOINTS 3" = 1'-0" 03



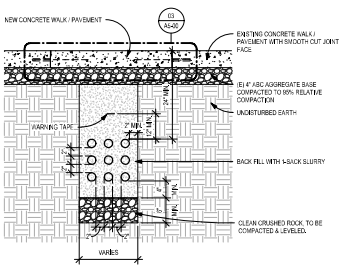
CHAIN LINK GATE DOOR DETAIL 1/2" = 1'-0" 19



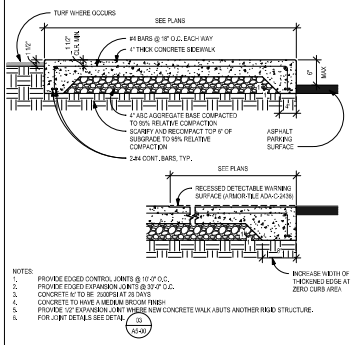
TRENCH ON LANDSCAPE AREA 1" = 1'-0" 08



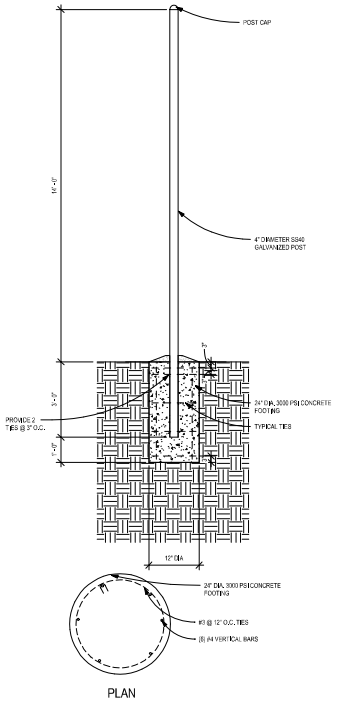
CONDUIT PENETRATION THROUGH EXT. WALL 3" = 1'-0" 12



CONCRETE PAVEMENT UTILITY TRENCH REPAIR 1" = 1'-0" 07

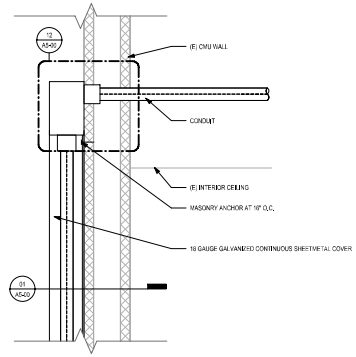


CONCRETE SIDEWALK 1" = 1'-0" 02

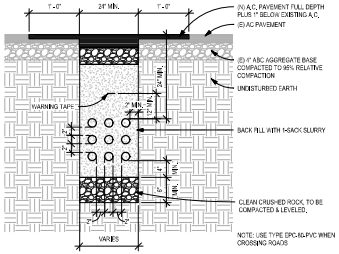


PLAN

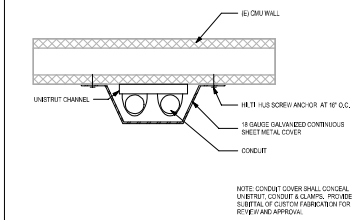
POLE DETAIL 1/2" = 1'-0" 17



PENETRATION THROUGH EXTERIOR WALL 3" = 1'-0" 11



A.C. PAVEMENT UTILITY TRENCH REPAIR 1" = 1'-0" 06



EXTERIOR CONDUIT COVER - PLAN 3" = 1'-0" 01

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CONSULTANT

ARCHITECT SEAL: REGISTERED ARCHITECT, STEVEN HUNT, RC C-14859, 08/31/25, RENEWAL DATE, STATE OF CALIFORNIA

CONSULTANT SEAL

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6631 STEPHENS RANCH ROAD
LA VERNE, CA 91750

SHEET TITLE
DETAILS

HZ PROJ. NO.	IR31808.04	LA DPW SPEC NO.	7701
		PERMIT NO.	

A5-00

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GENERAL NOTES:

1. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT LOCATION OF DIFFUSERS AND REGISTERS. CONTRACTOR SHALL VERIFY LOCATIONS AS REQUIRED TO MATCH FINAL ARCHITECTURAL REFLECTED CEILING PLANS WHEN ISSUED.
2. FLEXIBLE DUCT CONNECTION TO DIFFUSERS AND REGISTERS TO BE A MINIMUM OF 18" AND A MAXIMUM OF 60" LONG. ALL JOINTS, SEAMS CONNECTIONS ETC., WILL BE COVERED WITH 4" WIDE, 4 OZ. CANVAS WITH ARABOL.

   FLEXIBLE DUCTS SHALL CONFORM TO THE FOLLOWING REQUIREMENTS:

   FLEXIBLE DUCT SHALL CONSIST OF AN EXTERIOR REINFORCED
   LAMINATED VAPOR BARRIER, 1.5" FIBERGLASS
   INSULATION(R=4.25 AT 75°F), ENCAPSULATED SPRING STEEL
   WIRE HELIX AND IMPERVIOUS, SMOOTH NON-FERTORATED
   INTERIOR VINYL LINER. INDIVIDUAL LENGTHS OF FLEXIBLE
   DUCTS SHALL CONTAIN FACTORY FABRICATED STEEL CONNECTION COLLARS.

   FLEXIBLE DUCTS SHALL BE SUPPORTED AT OR NEAR MID-HEIGHT WITH 2" WIDE 26 GAUGE STEEL HANGER COLLAR ATTACHED TO THE STRUCTURE WITH AN APPROVED DUCT HANGER. INSTALLATION SHALL MAXIMIZE LENGTH CONNECTING TO TERMINAL OUTLETS SHALL BE 5 FEET.
3. PROVIDE ADEQUATE OFFSETS, TRANSITIONS, RISER, AND DROPS TO MISS AUTOMATIC SPRINKLERS, PLUMBING LINES, CONDUIT AND OTHER DUCTS.
4. ALL VOIDS AROUND DUCTS AND PIPES WHERE FIRE DAMPERS OCCURS MUST BE FILLED WITH EQUIVALENT TWO HOUR MATERIALS.
5. ALL ROUND DUCTS SHALL BE INCREASED ONE SIZE AT POINT OF CONNECTION TO MAIN DUCT.
6. NOT USED.
7. DAMPER MANUFACTURERS LABEL SHALL INDICATE MAXIMUM LEAKAGE OF 3%.
8. ALL DUCT INSULATION, AND WRAPPING SHALL HAVE A MOLD-HUMIDITY AND EROSION RESISTANT FACE THAT MEETS THE REQUIREMENTS OF C.B.C. & CMC STANDARDS.
9. DRAWINGS SHOW PIPE AND DUCTWORK DIAGRAMATICALLY. ADHERE TO DRAWINGS AS CLOSELY AS POSSIBLE IN LAYOUT WORK, VARY RUN OF PIPING, RUN AND SHAPE OF DUCTWORK AND MAKE OFFSETS DURING PROGRESS OF WORK AS REQUIRED TO MEET STRUCTURAL AND OTHER INTERFERENCE AS APPROVED BY THE ARCHITECT. INSTALL PIPING AND DUCTWORK IN FURRED SPACES WHEREVER POSSIBLE. RUN EXPOSED PIPING AND DUCTWORKS PARALLEL TO OR AT RIGHT ANGLE TO BUILDING WALLS. KEEP HORIZONTAL LINES AS CLOSE TO BOTTOM OF STRUCTURE AS POSSIBLE. CONFORM TO CEILING HEIGHTS ESTABLISHED ON ARCHITECTURAL DRAWINGS.
10. ALL DUCT BRANCHES FROM MAIN SUPPLY, RETURN AND EXHAUST AIR DUCTS TO BE PROVIDED WITH MANUAL VOLUME DAMPERS.
11. ALL SQUARE ELBOWS TO BE PROVIDED WITH TURNING VANES.
12. FOR BUILDING LOCATIONS, DIMENSIONS AND GRADE ELEVATIONS. SEE ARCHITECTURAL AND STRUCTURAL DRAWINGS.
13. DRAWINGS AND SPECIFICATIONS DO NOT INCLUDE NECESSARY COMPONENTS FOR CONSTRUCTIONS SAFETY.
14. SYMBOLS AND ABBREVIATIONS ARE SHOWN FOR REFERENCE: NOT ALL SYMBOLS AND ABBREVIATIONS MAY BE USED.
15. ASBESTOS OR HAZARDOUS WASTE (1) IS UNDERSTOOD AND AGREED THAT THIS CONTRACT DOES NOT CONTEMPLATE THE HANDLING OF ASBESTOS OR ANY HAZARDOUS WASTE MATERIALS. (2) ASBESTOS OR ANY HAZARDOUS WASTE MATERIALS (3) ENCOUNTERED, NOTIFY THE OWNER IMMEDIATELY. DO NOT DISTURB, HANDLE OR ATTEMPT TO REMOVE.
16. NOT USED.
17. PROVIDE COMPLETE NEBB/ABC CERTIFIED AIR BALANCE FOR NEW AIR DISTRIBUTION TO DELIVER THE INDICATED AIR QUANTITIES.

    a. AABC NATIONAL STANDARDS FOR TOTAL SYSTEM BALANCE,
    b. ACCA MANUAL B
    c. ASHRAE 111
    d. NEBS PROCEDURE STANDARDS FOR TESTING BALANCING OF ENVIRONMENTAL SYSTEMS
    e. SMACNA HVAC SYSTEMS TESTING, ADJUSTING AND BALANCING , CMC SECTION 314.1
18. FACTORY MADE FLEXIBLE AIR DUCTS AND CONNECTORS SHALL BE NOT MORE THAN 5FEET IN LENGTH AND SHALL NOT BE USED IN LIEU OF RIGID ELBOWS OR FITTINGS, CMC SECTION 604.4.1.
19. SUPPLY AIR, RETURN AIR, AND OUTSIDE AIR FOR HEATING, COOLING, OR EVAPORATIVE COOLING DUCT SYSTEMS CONSTRUCTED OF METAL SHALL COMPLY WITH SMACNA HVAC DUCT CONSTRUCTION STANDARDS-METAL AND FLEXIBLE OR UL 181, CMC SECTION 602.1 SEE ALSO CMC SECTION 603.2.1
20. JOINTS AND SEAMS FOR DUCT SYSTEMS SHALL COMPLY WITH SMACNA HVAC DUCT CONSTRUCTION STANDARDS-METAL AND FLEXIBLE. JOINTS OF DUCT SYSTEMS SHALL BE MADE SUBSTANTIALLY AIRTIGHT BY MEANS OF TAPES, MASTICS, GASKETING, OR OTHER MEANS. CMC SECTION 603.3.1.
21. THE PIPING FOR ALL SPACE-CONDITIONING AND SERVICE WATER-HEATING SYSTEMS WITH FLUID TEMPERATURE LISTED IN TABLE 120.3A SHALL HAVE THE AMOUNT OF INSULATION SPECIFIED IN SUBSECTION (a) OR (b). INSULATION SHALL BE PROTECTED DAMAGE, INCLUDING THAT DUE TO SUNLIGHT, MOISTURE, EQUIPMENT MAINTENANCE AND WIND, INCLUDING BUT NOT LIMITED TO, THE FOLLOWING:

    (a) INSULATION EXPOSED TO WEATHER SHALL BE SUITABLE FOR OUTDOOR SERVICE BY EITHER BEING RATED BY THE MANUFACTURER FOR OUTDOOR USE OR BEING COVERED. E.G., PROTECTED BY ALUMINUM, SHEET METAL, PAINTED WITH A COATING THAT IS WATER RETARDANT AND PROVIDE SHIELDING FROM SOLAR RADIATION THAT CAN CAUSE DEGRADATION OF THE MATERIAL.

    (b) INSULATION COVERING CHILLED WATER PIPING AND REFRIGERANT SUCTION PIPING LOCATED OUTSIDE THE INSULATION (UNLESS THE INSULATION IS INHERENTLY VAPOR RETARDANT), ALL PENETRATIONS AND JOINTS OF WHICH SHALL BE SEALED. CMC SECTION 120.3A.
22. A MAINTENANCE LABEL SHALL BE AFFIXED TO MECHANICAL EQUIPMENTS. A MAINTENANCE MANUAL SHALL BE PROVIDED FOR THE OWNER'S USE.
23. MECHANICAL CONTRACTOR SHALL PERFORM INSTALLATION, START-UP AND TEST OF HVAC SYSTEM.
24. COORDINATE ALL WORK WITH OTHER TRADES PRIOR TO INSTALLING ANY MATERIAL OR EQUIPMENT.
25. ALL WORK SHALL BE IN FULL ACCORDANCE WITH ALL CODES, RULES, AND REGULATIONS OF GOVERNING AGENCIES.

MANDATORY REQUIREMENT NOTES

1) LIST OF HEATING, COOLING, WATER-HEATING, AND LIGHTING SYSTEMS & FEATURES, MATERIALS, COMPONENTS, AND MECHANICAL DEVICES, CONSERVATION INSTALLED IN THE PROJECT , AND INSTRUCTIONS ON HOW TO USE THEM EFFICIENTLY.
2) REQUIRED ROUTINE MAINTENANCE ACTION SHALL BE CLEARLY STATED AND INCORPORATED ON A READILY ACCESSIBLE LABEL - THE LABEL MAY BE LIMITED TO IDENTIFYING THE MAINTENANCE MANUAL.
3) A DESCRIPTION OF THE QUANTITIES OF OUTDOOR AND RECIRCULATED AIR THAT THE VENTILATION SYSTEM IS DESIGNED TO PROVIDE TO EACH AREA.
   A. AFTER INSTALLING WALL, CEILING, OR FLOOR INSULATION, THE INSTALLER SHALL POST IN A CONSPICUOUS LOCATION IN THE BUILDING A CERTIFICATE SIGNED BY THE INSTALLER STATING THAT THE INSTALLATION IS CONSISTENT WITH THE PLANS.
   B. JOINTS AND OTHER OPENINGS IN THE BUILDING ENVELOPE THAT ARE POTENTIAL SOURCES OF AIR LEAKAGE SHALL BE CAULKED, GASKETED WEATHERSTRIPPED, OR OTHERWISE SEALED TO LIMIT INFILTRATION AND EXFILTRATION. CERTIFICATE SHALL ALSO STATE THE MANUFACTURER'S NAME AND MATERIAL.
   C. THE PIPING FOR ALL SPACE CONDITIONING AND SERVICE WATER HEATING SYSTEMS SHALL BE INSULATED.
   D. ALL DUCTS SHALL BE INSTALLED AND INSULATED IN COMPLIANCE WITH SECTIONS 601, 603 AND 604 OF THE CMC AND TITLE 24.
   E. OUTDOOR AIR SUPPLY AND EXHAUST EQUIPMENT SHALL BE INSTALLED WITH DAMPERS THAT AUTOMATICALLY CLOSE DURING PERIODS OF NON-USE OF THE AREAS SERVED BY EQUIPMENT.

BUILDING AND SAFETY DIVISION
Department of Public Works
FINAL ENERGY APPROVED
IN COMPLIANCE WITH PART 1, ARTICLE 1, PART 2
BUILDING
BY
DATE OF INSPECTION
INSPECTOR 102.3(PF)

APPLICABLE CODES:

2022 COUNTY OF LOS ANGELES BUILDING CODE (TITLE 26)
2022 COUNTY OF LOS ANGELES ELECTRICAL CODE (TITLE 27)
2022 COUNTY OF LOS ANGELES PLUMBING CODE (TITLE 28)
2022 COUNTY OF LOS ANGELES MECHANICAL CODE (TITLE 29)
2022 COUNTY OF LOS ANGELES GREEN BUILDING STANDARDS CODE (TITLE 31)
2022 COUNTY OF LOS ANGELES EXISTING BUILDING CODE (TITLE 33)

WIRING SYSTEM NOTES

1. ALL LOW VOLTAGE WIRING LESS THAN 50 VOLTS SHALL BE FURNISHED, WIRED AND INSTALLED BY MECHANICAL CONTRACTOR, HOWEVER, ELECTRICAL CONDUIT SHALL BE FURNISHED BY ELECTRICAL CONTRACTOR.
2. ALL POWER WIRING, DISCONNECT SWITCHES, CIRCUIT BREAKERS, FUSES, RELAYS, CONTROL TRANSFORMER ETC. SHALL BE FURNISHED & INSTALLED BY ELECTRICAL CONTRACTOR (UNLESS PER DIV. 16 OR APPLICABLE ELECTRICAL SPECIFICATIONS.
3. ALL POWER AND CONTROL WIRING FOR 50 VOLTS AND ABOVE SHALL BE ROUTED THRU SUITABLE CONDUIT PROVIDED AND INSTALLED BY ELECTRICAL CONTRACTOR. PER DIV. 16 OR APPLICABLE ELECTRICAL SPECIFICATIONS.
4. UNLESS INDICATED OTHERWISE, INSTALL ALL ACCESSORY CONTROL DEVICES SUCH AS THMEOLOGS, CONTROL TRANSFORMERS AND RELAYS IN LOCATION AS NOTED ON PLANS OR AS DIRECTED IN FIELD BY OWNER'S REPRESENTATIVE. LOCATION SHALL BE IN ACCORDANCE WITH CODE AND REQUIREMENTS.
5. ALL EQUIPMENT AND COMPONENTS SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS AND LOCAL CODE REQUIREMENTS.
6. PROVIDE WEATHERPROOF ENCLOSURE FOR CONTROLS EXPOSED TO OUTDOOR BY ELECTRICAL CONTRACTOR PER DIV. 16 OR APPLICABLE ELECTRICAL SPECIFICATIONS.

DRAWING INDEX

M1.00 GENERAL NOTES, MANDATORY REQUIREMENTS NOTE, CODES AND EQUIPMENT SCHEDULE.
M1.10 ENLARGED PLANS-SERVER RM,ADMIN BLDG & SERVER RM,NORTH SCHOOL/SHOP BLDG.
M2.03 TITLE 24 FORMS

MANDATORY MEASURES

[illegible]

ADMINISTRATIVE REQUIREMENTS

A) The person with overall responsibility for construction or the person responsible for the installation of regulated features, materials, components, or manufactured devices shall post, or make available with the building permit(s) issued for the building, the required Installation Certificate(s) for features, materials, components, or manufactured devices regulated by the Appliance Efficiency Regulations or Part 6. Such Installation Certificate(s) shall be made available to the enforcement agency for all appropriate inspections. These certificates shall:

   i) Identify features, materials, components, or manufactured devices required to verify compliance with the Appliance Efficiency Regulations and Part 6.
   ii) Include a statement indicating that the features, materials, components, or manufactured device conform to the Appliance Efficiency Regulations and Part 6 and the requirements for such features, materials, components, or manufactured devices given in the plans and specifications approved by the local enforcement agency.
   iii) State the building permit number under which the construction or installation was performed.

   Sec. 10-103(a,b)

C) The builder shall provide the building owner or the person(s) responsible for building maintenance (in case of multi-tenant or centrally operated buildings) at occupancy the following:

   i) Operating Information – The appropriate certificate(s) of compliance and a list of the features, materials, components, and mechanical devices installed in the building and instructions on how to operate them efficiently.
   ii) Maintenance Information – Required routine maintenance actions shall be clearly stated and incorporated on a readily accessible label. The label may be limited to identifying the operation and maintenance manual.
   iii) Ventilation Information – A description of the quantities of outdoor and recirculated air that the ventilation systems are designed to provide to each area.

   Sec. 10-103(b)2-4

FAN COIL UNIT SCHEDULE

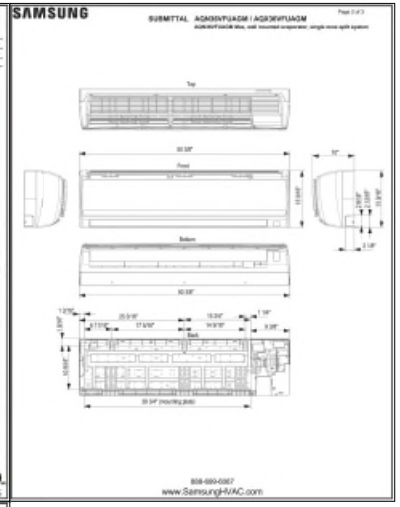
SYMBOL	LOCATION	AREA SERVED	FAN CFM (NOMINAL)	FAN E.S.P. ("W.G.)	MOTOR HP	ELECTRICAL V	ø	HZ	FLA	MCA	MOCP	MANUFACTURER & MODEL NO.	WEIGHT (LBS.)	DIMENSION (WxHxD)	REFG.LINE LIQ.	REFG.LINE GAS	REMARKS
FC 1A	WALL	SEE PLAN	920	0.5	3/4	208/230	1	60	0.48			SAMSUNG AC036VFUAGM	40	51"x14"x10"			①②③
FC 1M	WALL	SEE PLAN	920	0.5	3/4	208/230	1	60	0.48			SAMSUNG AC036VFUAGM	40	51"x14"x10"			①②③

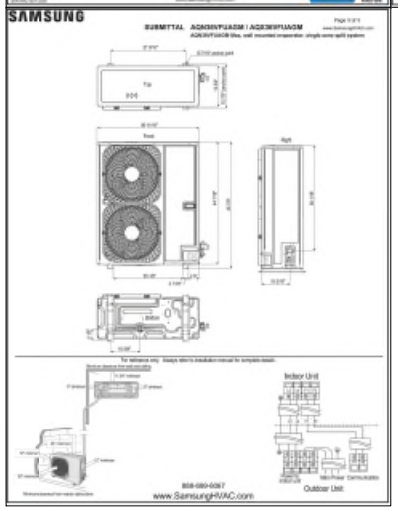
REMARKS: ① COOLING ONLY ② PROVIDE CONDENSATE PUMP, PLUG-IN TYPE NOT ACCEPTABLE ③ POWERED FROM OUTDOOR UNIT VIA 14AWGx3 INTERCONNECT POWER CABLE

OUTDOOR CONDENSING UNIT SCHEDULE

SYMBOL	LOCATION	MANUFACTURER & MODEL NUMBER	TOTAL COOLING CAPACITY (MBH)	TOTAL SENSIBLE CAPACITY (MBH)	AMBIENT TEMP. (°F)	ENT. AIR TEMP. (°F) WB	ENT. AIR TEMP. (°F) DB	SEER /EER	ELECTRICAL V – ø	FLA	MCA	MOCP	OPER. WEIGHT (LBS)	DIMENSIONS (WxDxH)	ACCESSORIES	REMARKS
CU 1A	SLAB ON GRADE	SAMSUNG AC036FVUAGM	38.0	–	95	–	–	18.0/10.8	208/230–1	0.48	19.5	30	200	37"x15"x46"		①②③④
CU 1M	SLAB ON GRADE	SAMSUNG AC036FVUAGM	38.0	–	95	–	–	18.0/10.8	208/230–1	0.48	19.5	30	200	37"x15"x46"		①②③④

REMARKS ① REFRIGERANT TYPE 410A ② PROVIDE HOUSEKEEPING PAD ③ SIDE DISCHARGE UNIT ④ SET TO COOLING ONLY OR DISABLE HEATING.





2 EQUIPMENT SCHEDULE

HUITT-ZOLLARS
555 W. 5TH ST | Los Angeles, CA 90013 USA
Phone 310.820.4600 | Fax 310.207.4215
www.huitt-zollars.com

ADVANCEDESIGN™

900 SOUTH FREMONT AVENUE
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FAX: 626.979.5320

CONSULTANT
BuildingSolutionsGroup.com
AGF Engineering Design Consulting
626.332.8888
WRS 097-20

ARCHITECT SEAL

CONSULTANT SEAL
REGISTERED PROFESSIONAL ENGINEER
BARNETT
No. M 076128
MECHANICAL
STATE OF CALIFORNIA

BID SET

ISSUED BLOCK / HISTORY LOG

NO.	ISSUED	DATE
	PLANCHECK	05/03/2024
	PLANCHECK CORRECTIONS	06/12/2024
	BID SET	11/13/2024

AGENCY APPLICATION NUMBER
UNC-MECH240510001771

AGENCY APPROVAL STAMP

PROJECT NAME
CAMP AFFLERBAUGH
CCTV SYSTEM

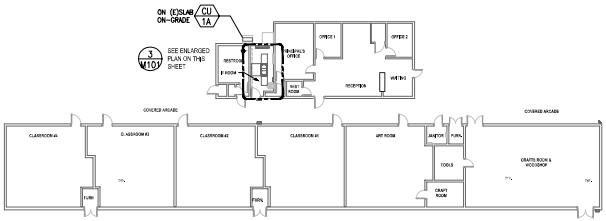
FACILITY NAME
CAMP AFFLERBAUGH

PROJECT ADDRESS
6631 STEPHENS RANCH ROAD
LA VERNE, CA 91750

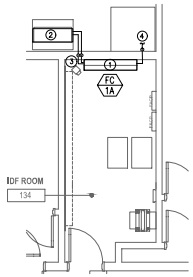
SHEET TITLE
GENERAL NOTES,MANDATORY REQUIREMENTS NOTES AND EQUIPMENT SCHEDULES

HZ PROJ. NO. R3116606J4	LA DPW SPEC NO. 7721
SCALE: 1/8" = 1'-0"	PERMIT NO.

M1.00



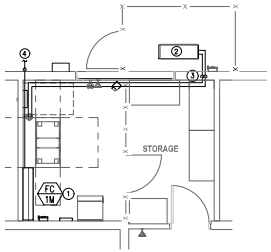
1 M101 SCHOOL BUILDING - KEY PLAN
SCALE: 1/8"=1'-0"
NORTH



3 M101 ENLARGED SCHOOL BUILDING IDF ROOM 134
SCALE: 1/4"=1'-0"
NORTH

KEYNOTES:

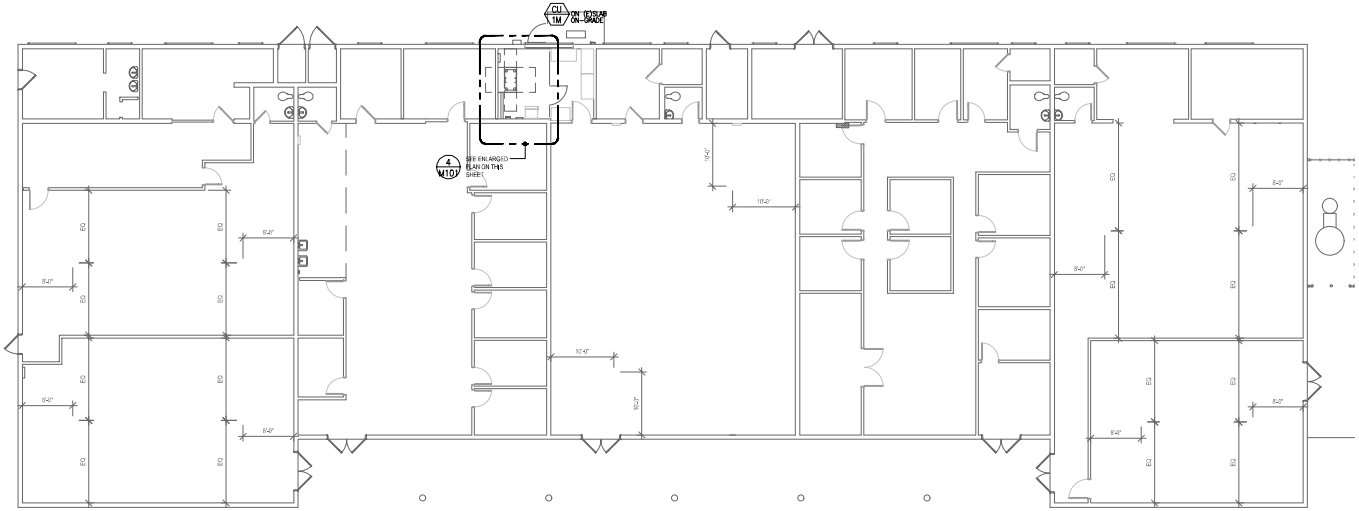
1. WALL MOUNTED FANCOIL UNIT.
2. CONDENSING UNIT AT GROUND WITH HOUSEKEEPING PAD COORDINATE WITH BUILDING ENGINEER OR BLDG. MAINTENANCE.
3. REFRIGERANT LINES DOWN & OUT TO MATCHING OUTDOOR CONDENSING UNIT.
4. 3/4" CONDENSATE DRAIN LINE TO EXISTING PLANTER AREA.



4 M101 ENLARGED NORTH SCHOOL/ SHOP BLDG.-SERVER RM.
SCALE: 1/4"=1'-0"
NORTH

KEYNOTES:

1. WALL MOUNTED FANCOIL UNIT.
2. CONDENSING UNIT AT GROUND WITH HOUSEKEEPING PAD COORDINATE WITH BUILDING ENGINEER OR BLDG. MAINTENANCE.
3. REFRIGERANT LINES DOWN & OUT TO MATCHING OUTDOOR CONDENSING UNIT.
4. 3/4" CONDENSATE DRAIN LINE TO EXISTING PLANTER AREA.



2 M101 NORTH SCHOOL/SHOP BLDG.-KEY PLAN
SCALE: 1/8"=1'-0"
NORTH

BUILDING AND SAFETY DIVISION
Department of Public Works
FINAL ENERGY APPROVED
UNDER CAP RULE 24, PART 1, ARTICLE 5 & PART 6
BY
PUBLIC WORKER
DIVISION 1 (B.S.P.)
This set of plans has been reviewed for compliance with applicable energy standards and regulations. Approval of these plans does not constitute approval of any other part of the project. Approval of the use of plans and specifications does not constitute approval of any violation of any laws or ordinances. Plans, specifications, and calculations shall be kept at job site at all times during construction. Any deviation or alteration to the approved plans and specifications may require additional plan review and approval.

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CONSULTANT:
BuildingSolutionsGroup.com
ADP Engineering Design Consulting
KB-1
Job # WRS 097-20

ARCHITECT SEAL

CONSULTANT SEAL
REGISTERED PROFESSIONAL ENGINEER
ABIT BANERJEE
No. M28563
Exp. 6/30/25
MECHANICAL
STATE OF CALIFORNIA

BID SET

ISSUED BLOCK / HISTORY LOG

NO.	ISSUED	DATE
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PROJECT NAME
CAMP AFFLERBAUGH
CCTV SYSTEM

FACILITY NAME
CAMP AFFLERBAUGH

PROJECT ADDRESS
6631 STEPHENS RANCH ROAD
LA VERNE, CA 91750

SHEET TITLE
HVAC PLAN - ADMIN & NORTH SCHOOL/SHOP BUILDING

HZ PROJ. NO.	KG11606J4	LA DPW SPEC NO.	7721
SCALE: 1/8" = 1'-0"		PERMIT NO.	

M1.01

STATE OF CALIFORNIA
Mechanical Systems
MECH-MECH-EQUIPMENT | CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE — MECC-MECH-01

This document is used to demonstrate compliance for mechanical systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in §140.0, or §141.0(b)2 for alterations.

Project Name: AfterBough-Paige Camp CCTV System — Report Page: Page 1 of 5
Project Address: 6631 Stephens Ranch Rd. La Verne — Date Prepared: 01.16.2024

A. GENERAL INFORMATION

01 Project Location (city)	La Verne	04 Total Conditioned Floor Area	
02 Climate Zone	9	05 Total Unconditioned Floor Area	
03 Occupancy Types Within Project		06 # of Stories (Habitable Above Grade)	1

☐ Office (B) ☐ Retail (M) ☐ Non-refrigerated Warehouse (S)
☐ Hotel/ Motel Guest Rooms (R-1) ☐ School (E) ☐ Healthcare Facility (H)
☐ High-Rise Residential (R-2/R-4) ☐ Relocatable Class Bldg (E) ☒ Other (Write in): Server Room and MCP Room

* ADDITIONAL: Climate zone can be determined on the California Energy Commission's website at http://www.energy.ca.gov/maps/renewable/building_climate_zones.html

B. PROJECT SCOPE

Table Instructions: Include any mechanical systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in §140.0, or §141.0(b)2 for alterations.

My project consists of (check all that apply)

01 Air System(s)	02 Hydronic System Components	03 Dry System Components
☐ Heating Air System	☐ Water Economizer	☐ Air Economizer
☑ Cooling Air System	☐ Pumps	☐ Electric Resistance Heat
Mechanical Controls	☐ Hydronic System Piping	☐ Fan Systems
☑ Mechanical Controls	☐ Cooling Towers	☐ Humidifiers
	☐ Chillers	☐ Ventilation
	☐ Boilers	☐ Zonal Systems/ Terminal Boxes

C. COMPLIANCE RESULTS

Table Instructions: If any cell on this table says "MISSING" or "COMPLETE" or "EXAMPLES with Exceptional Conditions" refer to Table D for guidance.

01	02	03	04	05	06	07	08	09
System Summary §130.1, §130.2, §140.4	Pumps §140.4(b)	Temp/ Expansion §140.4(c), §107.0(n)	Jackrabbit Controls §110.1, §120.1, §140.4(f)	Ventilation §120.1	Terminal Box Controls §140.4(d)	Distribution §110.1, §140.4(e)	Cooling Towers §130.2(c)	Compliance Results
Zone Table E1	Zone Table E2	Zone Table E4	Zone Table E3	Zone Table D	Zone Table E5	Zone Table E1	Zone Table M	
Yes	MISS	MISS	Yes	MISS	MISS	MISS	MISS	COMPLIES
							Mandatory Measures Compliance (See Table D for Details)	COMPLIES

STATE OF CALIFORNIA
Mechanical Systems
MECH-MECH-EQUIPMENT | CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE — MECC-MECH-01

Project Name: AfterBough-Paige Camp CCTV System — Report Page: Page 2 of 5
Project Address: 6631 Stephens Ranch Rd. La Verne — Date Prepared: 01.16.2024

D. EXCEPTIONAL CONDITIONS

This table is auto-filled with applicable comments because of selections made or data entered in tables throughout the form.

No exceptional conditions apply to this project.

E. ADDITIONAL REMARKS

This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.

F. HVAC SYSTEM SUMMARY (DRY & WET SYSTEMS)

Table Instructions: Complete the following equipment schedules to show compliance with mandatory requirements found in §110.1 and §120.2(a) and prescriptive requirements found in §140.4(a), §140.4(b) and §140.4(c) or §141.0(b)2 for alterations.

Dry System Equipment Sizing (includes air conditioners, condensers, heat pumps, VAV, furnaces and unit heaters)

01	02	03	04	05	06	07	08	09	10	11
				Equipment Sizing per Mechanical Schedule (Btu/h) [1] [2] [3] [4] [5]						
				Heating Output [1] [2]		Cooling Output [1] [2]			Load Calculations [3]	
Name or Item Tag	Equipment Category per Tables 110.2	Equipment Type per Tables 110.2 & Title 24	Smallest Size Available? §140.4(a)	Sensible Per Design (btu/h)	Rated (btu/h)	Sensible Per Design (btu/h)	Rated (btu/h)	Total Heating Load (btu/h)	Total Sensible Cooling Load (btu/h)	
FC-1	Unitary AC/ Condensers	AC, air cooled, split (1 phase)	Yes	0	0	0	38,000	38,000	0	38,000
FC-2	Unitary AC/ Condensers	AC, air cooled, split (1 phase)	Yes	0	0	0	28,000	28,000	0	2,800

[1] FOOTNOTES: Equipment shall be the smallest size, within the available options of the desired equipment line, necessary to meet the design heating and cooling loads of the building per §140.4(a). Healthcare facilities are excepted.
* It is common practice to show rated output capacity on the equipment schedule. Sensible cooling output comes from specification sheet tables.
* If equipment is heating only, leave cooling output and load blank. If equipment is cooling only, leave heating output and load blank.
* Authority having jurisdiction may call for load calculations used for compliance per §140.4(b).

* Table Continued

STATE OF CALIFORNIA
Mechanical Systems
MECH-MECH-EQUIPMENT | CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE — MECC-MECH-01

Project Name: AfterBough-Paige Camp CCTV System — Report Page: Page 3 of 5
Project Address: 6631 Stephens Ranch Rd. La Verne — Date Prepared: 01.16.2024

Dry System Equipment Efficiency (other than Package Terminal Air-Conditioners [PTAC] and Package Terminal Heat Pumps [PTHP])

01	02	03	04	05	06	07	08	09
		Heating Mode				Cooling Mode		
Name or Item Tag	Size Category (Btu/h)	Rating Condition (°F)	Efficiency Units	Min Efficiency Required per Tables 110.2 Title 24	Design Efficiency	Efficiency Unit	Min Efficiency Required per Tables 110.2 Title 24	Design Efficiency
P								
PC								
FC								
PC-								
FC-2								

G. PUMPS
This Section Does Not Apply

H. FAN SYSTEMS & AIR ECONOMIZERS
This Section Does Not Apply

I. SYSTEM CONTROLS

Table Instructions: Complete the following Table to demonstrate compliance with mandatory controls in §110.2 and §120.2 and prescriptive controls in §140.4(f) and (h) or requirements in §141.0(b)2 for altered space conditioning systems.

01	02	03	04	05	06	07	08	09
System Name	System Zoning	Conditioned Floor Area Being Served (ft²)	Thermostats §110.2(b)-(c) [1], §120.2(a) or §141.0(b)2E	Shut-Off Control §110.2(d)	Isolation Zone Controls §120.2(e)	Demand Response §110.12 and §120.2(h)	Supply Air Temp. Reset §140.4(f)	Window Interlocks per §140.4(i)

Table Continued

STATE OF CALIFORNIA
Mechanical Systems
MECH-MECH-EQUIPMENT | CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE — MECC-MECH-01

Project Name: AfterBough-Paige Camp CCTV System — Report Page: Page 4 of 5
Project Address: 6631 Stephens Ranch Rd. La Verne — Date Prepared: 01.16.2024

01	02	03	04	05	06	07	08	09
System Name	System Zoning	Conditioned Floor Area Being Served (ft²)	Thermostats §110.2(b)-(c) [1], §120.2(a) or §141.0(b)2E	Shut-Off Controls §120.2(d)	Isolation Zone Controls §120.2(e)	Demand Response §110.12 and §120.2(h)	Supply Air Temp. Reset §140.4(f)	Window Interlocks per §140.4(i)
FC-1	single zone	≤ 25,000 ft²	Setback Thermostat	PAL 7 day per §120.2(d)1	Aura Timeswitch	NA: PTAC, PTHP, Fan AC, HP	NA: Single Zone	NA: No operable windows
FC-2	single zone		Setback Thermostat	PAL 7 day per §120.2(d)1	Aura Timeswitch	NA: PTAC, PTHP, Fan AC, HP	NA: Single Zone	NA: No operable windows

[1] FOOTNOTES: Gravity gas wall heaters, gravity floor heaters, gravity room heaters, non-central electric heaters, fireplaces or decorative gas appliances, wood stoves are not required to have setback thermostats.
* NOTES: Controls with a * require a note in the space below explaining how compliance is achieved.
EX: System 1: SA Temp Reset: Exempt because zones compliant with §140.4(b), EXCEPTION 1 to §140.4(f)

J. VENTILATION AND INDOOR AIR QUALITY
This Section Does Not Apply

K. TERMINAL BOX CONTROLS
This Section Does Not Apply

L. DISTRIBUTION (DUCTWORK AND PIPING)
This Section Does Not Apply

M. COOLING TOWERS
This Section Does Not Apply

STATE OF CALIFORNIA
Mechanical Systems
MECH-MECH-EQUIPMENT | CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE — MECC-MECH-01

Project Name: AfterBough-Paige Camp CCTV System — Report Page: Page 5 of 5
Project Address: 6631 Stephens Ranch Rd. La Verne — Date Prepared: 01.16.2024

N. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Table Instructions: Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at https://www.energy.ca.gov/title24/2013standards/2013_compliance_documents/Nonresidential_Documents/NRCI/

YES	NO	Form/Title	Field Inspector Pass	Fail
◉		NRCH-MECH-01-E - Must be submitted for all buildings.	☐	☐

O. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

Table Instructions: Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at https://www.energy.ca.gov/title24/2013standards/2013_compliance_documents/Nonresidential_Documents/NRCA/

YES	NO	Form/Title	Field Inspector Pass	Fail

STATE OF CALIFORNIA
Mechanical Systems
MECH-MECH-EQUIPMENT | CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE — MECC-MECH-01

Project Name: AfterBough-Paige Camp CCTV System — Report Page: Page 6 of 5
Project Address: 6631 Stephens Ranch Rd. La Verne — Date Prepared: 01.16.2024

☐	◉	NRCA-MCH-02-A Outdoor Air must be submitted for all newly installed HVAC units. (Note: NRCMCH-4 can be performed in conjunction with MCH-07-A Supply Fan VFD Acceptance (if applicable) since testing includes overlap)	☐	☐
☐	◉	NRCA-MCH-03-A Constant Volume Single Zone HVAC. NOTE: This form does not automatically move to "Yes". If Constant Volume Single Zone HVAC Systems are included in the scope, permit applicant should move this form to "Yes".	☐	☐
☐	◉	NRCA-MCH-04-A Air Distribution Duct Leakage	☐	☐
☐	◉	NRCA-MCH-05-A Air Economizer Controls	☐	☐
☐	◉	NRCA-MCH-06-A Demand Control Ventilation Systems Acceptance must be submitted for all systems required to employ demand controlled ventilation (refer to §120.1(c)) can vary outside ventilation flow rates based on maintaining internal carbon dioxide (CO2) concentration setpoints.	☐	☐
☐	◉	NRCA-MCH-07-A Supply Fan Variable Flow Controls	☐	☐
☐	◉	NRCA-MCH-08-A Valve Leakage Test	☐	☐
☐	◉	NRCA-MCH-09-A Supply Water Temperature Reset Controls	☐	☐
☐	◉	NRCA-MCH-10-A Hydronic System Variable Flow Controls	☐	☐
☐	◉	NRCA-MCH-11-A Automatic Demand Shed Controls	☐	☐
☐	◉	NRCA-MCH-12-A FDD for Packaged Direct Expansion Units	☐	☐
☐	◉	NRCA-MCH-13-A Automatic FDD for Air Handling Units and Zone Terminal Units Acceptance	☐	☐
☐	◉	NRCA-MCH-14-A Distributed Energy Storage DX AC Systems Acceptance. NOTE: This form does not automatically move to "Yes". If Distributed Energy Storage DX AC Systems are included in the scope, permit applicant should move this form to "Yes".	☐	☐
☐	◉	NRCA-MCH-15-A Thermal Energy Storage (TES) System Acceptance. NOTE: This form does not automatically move to "Yes". If Chilled Water Storage, ice-on-Coil Internal Melt, ice-on-Coil External Melt, Ice Harvester, Brine, Ice-Slurry, Eutectic Salt, Clathrate Hydrate Slurry (CHS), Cryogenic or Encapsulated Ice Melt Systems are included in the scope, permit applicant should move this form to "Yes".	☐	☐
☐	◉	NRCA-MCH-16-A Supply Air Temperature Reset Controls	☐	☐
☐	◉	NRCA-MCH-17-A Condenser Water Temperature Reset Controls	☐	☐
☐	◉	NRCA-MCH-18 Energy Management Control Systems	☐	☐
☐	◉	NRCA-MCH-19 Occupancy Sensor Controls	☐	☐
☐	◉	NRCA-MCH-20 Multi-Family Ventilation	☐	☐
☐	◉	NRCA-MCH-21 Multi-Family Envelope Leakage	☐	☐

STATE OF CALIFORNIA
Mechanical Systems
MECH-MECH-EQUIPMENT | CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE — MECC-MECH-01

Project Name: AfterBough-Paige Camp CCTV System — Report Page: Page 7 of 5
Project Address: 6631 Stephens Ranch Rd. La Verne — Date Prepared: 01.16.2024

P. DECLARATION OF REQUIRED CERTIFICATES OF VERIFICATION

Table Instructions: Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in Table E. Additional Remarks. These documents must be completed by a HERS Rater and provided to the building inspector during construction. The final documents must be created by a HERS Providers registry, but drafts can be found online at https://www.energy.ca.gov/title24/2013standards/2013_compliance_documents/Nonresidential_Documents/NRCV/

YES	NO	Form/Title	Field Inspector Pass	Fail
☐	◉	NRCH-MCH-04-H Duct Leakage Test. NOTE: Must be completed by a HERS Rater	☐	☐
☐	◉	NRCH-MCH-24 Enhanced Air Leakage Worksheet. NOTE: Must be completed by a HERS Rater	☐	☐
☐	◉	NRCH-MCH-23 High-Rise Residential. NOTE: Must be completed by a HERS Rater	☐	☐
☐	◉	NRCH-MCH-30 Local Mechanical Exhaust. NOTE: Must be completed by a HERS Rater	☐	☐

BUILDING AND SAFETY DIVISION
Department of Public Works
FINAL ENERGY APPROVED
HOUSE CAP 2016 CA PART 1, AMENDED CA PART 1
BY
PUBLIC WORKS
RCMCBOK-1230.04PW

STATE OF CALIFORNIA
Mechanical Systems
MECH-MECH-EQUIPMENT | CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE — MECC-MECH-01

Project Name: AfterBough-Paige Camp CCTV System — Report Page: Page 8 of 5
Project Address: 6631 Stephens Ranch Rd. La Verne — Date Prepared: 01.16.2024

Q. MANDATORY MEASURES DOCUMENTATION LOCATION

Table Instructions: Indicate where mandatory measures are documented in the plan set or construction documentation. For any mandatory measures that do not apply, mark the plan sheet or construction document location as "N/A". Any action code that are left blank will result in non-compliance in Table C.

01		02
		Plan sheet or construction document location
Compliance with Mandatory Measures documented through NRCH Mandatory Measures Note Block:	No	
03 Mandatory Measures		04 Plan sheet or construction document location
Heating Equipment Efficiency per §110.1		N/A
Cooling Equipment Efficiency per §110.1		M1.00
Furnace Standby Loss Control per §110.2(b)		N/A
Duct Insulation per §120.4		N/A
Heating Hot Water Equipment Efficiency per §110.1		N/A
Cooling Chilled and Condenser Water Equipment Efficiency per §110.1		N/A
Open and Closed Circuit Cooling Towers conductivity of flow-based controls per §110.2(e)		N/A
Open and Closed Circuit Cooling Towers Flow Meter with analog output per §110.2(e)		N/A
Open and Closed Circuit Cooling Towers Overflow Alarm per §110.2(e)		N/A
Open and Closed Circuit Cooling Towers Efficient Drift Eliminators per §110.2(e)		N/A
Pipe Insulation per §120.3(b)		N/A
Combustion air shutoff, combustion air fan controls and stack design and controls for boilers per §120.9		N/A
Heat Pump with Supplementary Electric Resistance Heater Controls per §110.2(b)		N/A
The air duct and plenum system is designed per §120.1(a)-(f)		N/A
Kitchen range hoods shall be rated for sound in accordance with Section 7.3 of ASHRAE 62.2		N/A

STATE OF CALIFORNIA
Mechanical Systems
MECH-MECH-EQUIPMENT | CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE — MECC-MECH-01

Project Name: AfterBough-Paige Camp CCTV System — Report Page: Page 9 of 5
Project Address: 6631 Stephens Ranch Rd. La Verne — Date Prepared: 01.16.2024

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

I. I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name:	Sarah O. Mendoza	Documentation Author Signature:	
Company:	Building Solutions Group	Signature Date:	
Address:	1180 Westminster Ave. Suite B	CEA/HERS Certification Identification (if applicable):	
City/State/Zip:	Alhambra, CA 91803	Phone:	626.281.6220

RESPONSIBLE PERSON'S DECLARATION STATEMENT

I certify the following under penalty of perjury, under the laws of the State of California:

1. The information provided on this Certificate of Compliance is true and correct.
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer)
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

Responsible Designer Name:	Abby Banerjee	Responsible Designer Signature:	
Company:	Building Solutions Group	Date Signed:	
Address:	1180 Westminster Ave. Suite B	License:	M026153
City/State/Zip:	Alhambra, CA 91803	Phone:	626.281.6220

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TEL: 626.458.5100
FAX: 626.979.5320

CONSULTANT
BuildingSolutionsGroup.com
BSG Engineering Design Consulting
CA LICENSE NO. MRS-097-20

ARCHITECT SEAL

CONSULTANT SEAL
REGISTERED PROFESSIONAL ENGINEER
SARAH O. MENDOZA
No. M026153
MECHANICAL
STATE OF CALIFORNIA

BID SET

ISSUED BLOCK / HISTORY LOG

NO.	ISSUED	DATE
	PLANCHECK	05/03/2024
	PLANCHECK CORRECTIONS	06/12/2024
	BID SET	11/13/2024

AGENCY APPLICATION NUMBER
UNC-MECH240510001771

AGENCY APPROVAL STAMP

PROJECT NAME
CAMP AFFLERBAUGH
CCTV SYSTEM

FACILITY NAME
CAMP AFFLERBAUGH

PROJECT ADDRESS
6631 STEPHENS RANCH
ROAD
LA VERNE, CA 91750

SHEET TITLE
TITLE 24 FORMS

HZ PROJ. NO.	R311606.04	LA DPW SPEC NO.	7721
SCALE: 1/8" = 1'-0"		PERMIT NO.	

M2.00

GENERAL NOTES

1. THE ELECTRICAL CONTRACTOR SHALL VISIT THE JOB SITE OF THE WORK AND THOROUGHLY FAMILIARIZE HIMSELF WITH THE WORKING CONDITIONS AND THE EXACT NATURE AND EXTENT OF THE WORK TO BE DONE, TAKING INTO ACCOUNT ANY SPECIAL OR UNUSUAL FEATURES PECULIAR TO THIS JOB.
2. EXACT LOCATIONS OF ALL EQUIPMENT SHALL BE VERIFIED IN THE FIELD. ALL OUTLET LOCATIONS SHALL BE COORDINATED WITH ARCHITECTURAL ELEVATIONS PRIOR TO INSTALLATION.
3. ALL ELECTRICAL EQUIPMENT OUTDOORS SHALL BE WEATHERPROOF.
4. IT IS THE INTENT OF THESE DRAWINGS TO PROVIDE INSTRUCTIONS FOR COMPLETE ELECTRICAL JOB. ANY ERRORS OR OMISSIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO BIDDING THE JOB OR ORDERING/INSTALLING OF THE ASSOCIATED ITEM(S).
5. THE CONTRACTOR SHALL EXAMINE THE CONTRACT PLANS IN ORDER TO LOGICALLY LOCATE WORK IN COORDINATION WITH CONSTRUCTION SUCH AS CABINETS, BEAMS, FURRING, DOOR SWINGS, ETC..
6. THE CONDUITS SHALL BE CLEAR OF WATER, DEBRIS, AND OTHER FOREIGN MATERIALS PRIOR TO PULLING CABLES.
7. CONDUITS WHICH ARE INSTALLED AT THIS TIME AND LEFT EMPTY FOR FUTURE USE, INCLUDING TELEPHONE AND INTERCOMMUNICATION SYSTEM, SHALL HAVE MIN. #12AWG GALVANIZED PULL WIRE LEFT IN PLACE FOR FUTURE.
8. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER PHASE ROTATION OF MOTORS FEEDERS AND MAKE NECESSARY CHANGES TO AVOID PHASE REVERSALS.
9. ALL PANELS SHALL HAVE HINGED DOORS. HOUSE PANELS SHALL HAVE LOCKABLE DOORS. INSTALL A TYPE WRITTEN DIRECTORY IN ALL PANELS. UPDATE SCHEDULES OF AFFECTED PANELS.
10. BRANCH CIRCUITS IN INSULATED WALLS AND ATTICS SHALL BE DERATED PER N.E.C., ARTICLE 310.
11. ALL WIRING SYSTEM SHALL BE INSTALLED IN RACEWAYS APPROVED BY APPLICABLE CODES AND/OR AS INDICATED ON CONSTRUCTION DOCUMENTS.
12. BOND ALL METALLIC GAS AND WATER PIPING FOR CONTINUITY AND INSTALL THE COLD WATER GROUND AND UFFER GROUND PER NATIONAL ELECTRICAL CODE REQUIREMENTS AND AS SHOWN ON DRAWINGS.
13. ALL FLUORESCENT BALLASTS SHALL COMPLY WITH THE REQUIREMENTS OF THE STATE OF CALIFORNIA TITLE 24.
14. ALL WIRING SHALL BE COPPER W/ INSULATION TYPE THHN/THWN MIN. #12 AWG.
15. MOUNT ALL BATHROOM RECEPTACLES AND SWITCHES OVER LAVATORY AT +42" U.N.O.. VERIFY WITH ARCHITECTURAL ELEVATIONS.
16. NON METALLIC SHEATHED CABLES (ROMEX) SHALL NOT BE USED IN THIS PROJECT.
17. NONMETALLIC OUTLET BOXES SHALL NOT BE USED IN THIS PROJECT.
18. MANUFACTURERS SHALL COMPLY WITH DESIGN SPECIFICATIONS.
19. ELECTRICAL CONTRACTOR SHALL PROVIDE A SEPARATE EQUIPMENT GROUND WIRE IN EVERY CONDUIT.
20. ALL ELECTRICAL WIRING, CONDUIT, AND OTHER SUCH TRANSMISSION ELEMENTS SHALL NOT BRIDGE THE SPACE BETWEEN THE SUBFLOOR AND THE CEILING BELOW.
21. ELECTRICAL OUTLET BOXES INSTALLED IN COMMON WALLS SHALL BE LOCATED IN ADJACENT BAYS OR WITH SEPARATIONS DETERMINED BY THE CITY FIRE CODE AND NOT LESS THAN 24" FROM OUTLETS IN THE OPPOSITE WALL SURFACE. BACK AND SIDES OF BOXES SHALL BE COMPLETELY WRAPPED BY LONERY #10 PUTTY PADS. BOXES SHALL BE CAULKED AT THE PERIMETER OF BOX WHERE IT MATES WITH THE DRYWALL.
22. ALL EQUIPMENT WIRING TERMINALS AND LUGS RATING INCLUDING CIRCUIT BREAKERS SHALL BE RATED FOR MIN. 75°C.
23. ALL ELECTRICAL WORK SHALL BE DESIGNED PER 2023 LOS ANGELES COUNTY ELECTRICAL CODE, 2022 CALIFORNIA ELECTRICAL CODE, 2020 NATIONAL ELECTRICAL CODE, AND 2022 BUILDING ENERGY EFFICIENCY STANDARDS.
24. ELECTRICAL CONTRACTOR SHALL REMOVE ALL EXISTING EQUIPMENT AND DEVICES FROM THE BUILDING, REMOVE THEM FROM THE SITE AND DISPOSE THEM IN AN APPROVED MANNER BY THE ARCHITECT.
25. ELECTRICAL CONTRACTOR SHALL VERIFY THE LOCATION OF THIS EQUIPMENT AND PLACE IT IN A SECURE PLACE AVOIDING ANY DAMAGE UNTIL RE-INSTALLATION.
26. AT TIME OF PERMIT ISSUANCE, CONTRACTOR SHALL SHOW THEIR VALID WORKERS' COMPENSATION INSURANCE CERTIFICATE.
27. ALL WORK SHALL CONFORM TO ALL REQUIREMENTS OF STATE OF CALIFORNIA TITLE 24 REGARDLESS OF THE INFORMATION INDICATED ON THESE PLANS. IT IS THE RESPONSIBILITY OF THE INDIVIDUAL SUPERVISING THE CONSTRUCTION TO ENSURE THAT THE WORK IS DONE IN ACCORDANCE WITH CODE REQUIREMENTS PRIOR TO REQUESTING INSPECTION.
28. THE ISSUANCE OF A PERMIT SHALL NOT PREVENT THE BUILDING OFFICIAL FROM REQUIRING THE CORRECTION OF ERRORS ON THESE PLANS OR FROM PREVENTING ANY VIOLATION OF THE CODES ADOPTED BY THE CITY, RELEVANT LAWS, ORDINANCES, RULES AND/OR REGULATIONS.
29. NONMETALLIC CONDUITS SHALL NOT BE ALLOWED TO BE USED IN THIS BUILDING. THE REQUIRED WIRING METHODS ARE: EMT RIGID CONDUIT FOR CIRCUITS HOME RUNS; FLEXIBLE METALLIC ALUMINUM CONDUITS WHEN CONCEALED INSIDE WALLS; MC CABLES FOR FINAL CONNECTIONS TO LIGHTING FIXTURES IN ACCESSIBLE AREAS ABOVE CEILING SPACE. FIRE RESISTIVE CONSTRUCTION SHALL BE ONLY PENETRATED BY CODE APPROVED PERMITTED CONDUIT TYPES.
30. PRIOR TO ORDERING ANY AND ALL ELECTRICAL EQUIPMENT AND LIGHT FIXTURES PROVIDE, AND SUBMIT (4) FOUR COPIES OF SHOP DRAWING SUBMITTALS IN COMPLETED GROUPS OF MATERIALS (I.E. ALL LIGHTING FIXTURES) TO ARCHITECT & ENGINEER FOR APPROVAL. ALL REQUIRED SUBMITTALS ON ELECTRICAL ITEMS AND EQUIPMENT SHALL INCLUDE COMPLETE CATALOGUE INFORMATION SUCH AS CONSTRUCTION RATINGS, INSULATION SYSTEMS, INCLUDING MANUFACTURER'S CERTIFICATION THAT ITEMS MEET OR EXCEED UL AND TRADE STANDARDS AND THE SPECIFICATION.
31. DEDICATED RECEPTACLES CONNECTED TO A CIRCUIT SHALL HAVE AN AMPERAGE RATING OF NOT LESS THAN THAT OF THE BRANCH CIRCUIT.
32. ALL ELECTRICAL EQUIPMENT SHALL BE LABELED, LISTED, OR CERTIFIED BY A NATIONALLY RECOGNIZED TESTING LABORATORY ACCREDITED BY THE UNITE STATES OCCUPATIONAL SAFETY HEALTH ADMINISTRATION.

ABBREVIATIONS LIST

ABB.	DESCRIPTION
A.	AMPERE
A.F.	AMPERE FUSE
A.F.F.	ABOVE FINISH FLOOR
A.S.	AMPERE SWITCH
A.T.S.	AUTOMATIC TRANSFER SWITCH
BKBD.	BACKBOARD
BKR.	BREAKER
BLDG.	BUILDING
CAT.	CATALOG
C	CONDUIT
C.B.	CIRCUIT BREAKER
CKT.	CIRCUIT
CLG.	CEILING
C.O.	CONDUIT ONLY
DIA.	DIAMETER
DISC.	DISCONNECT
DWG.	DRAWING
EA.	EACH
ELECT.	ELECTRICAL
EM.	EMERGENCY
EXIST.	EXISTING
F.A.	FIRE ALARM
F.L.A.	FULL LOAD AMPS.
FLEX.	FLEXIBLE CONDUIT
FLR.	FLOOR
FLUOR.	FLUORESCENT
F.S.	FLOW SWITCH
G.F.C.I.	GROUND FAULT CIRCUIT INTERRUPTER
H.O.A.	HAND–OFF–AUTO
HPS	HIGH PRESSURE SODIUM
IC	INTERRUPTING CAPACITY
IG	ISOLATED GROUND
KVA	KILOVOLT AMPERE
KW	KILOWATT
L.C.L.	LONG CONTINUOUS LOAD
LTG.	LIGHTING
M.C.A.	MINIMUM CIRCUIT AMPS
M.C.C.	MOTOR CONTROL CENTER
MSA	MAIN SWITCHBOARD "A"
MTD.	MOUNTED
N.E.C.	NATIONAL ELECTRICAL CODE
N.T.S.	NOT TO SCALE
N.L.	NIGHT LIGHT
NO.	NUMBER
P, ø	PHASE
PNL.	PANEL
RM.	ROOM
SCE	SOUTHERN CALIFORNIA EDISON
SPST	SINGLE POLE SINGLE THROW
SPECS.	SPECIFICATIONS
SW.	SWITCH
SWBD.	SWITCHBOARD
SYM.	SYMMETRICAL
TEL.	TELEPHONE
T.S.	TAMPER SWITCH
TYP.	TYPICAL
U.G.	UNDERGROUND
U.O.N.	UNLESS OTHERWISE NOTED
V	VOLT
VA	VOLTAMPERE
W	WATT OR WIRE
W.P.	WEATHER PROOF

LEGEND

SYMBOL	DESCRIPTION
	CONDUIT RUN CONCEALED ABOVE CEILING OR IN WALL.
	CONDUIT RUN CONCEALED IN OR BELOW FLOOR OR GRADE.
#10	3/4"C. 3#10 + 1#10 GRD
	3/4"C. 3#12 + 1#12 GRD
	3/4"C. 4#12 + 1#12 GRD
	3/4"C. 5#12 + 1#12 GRD
	3/4"C. 6#12 + 1#12 GRD
	3/4"C. 8#12 + 1#12 GRD
	3/4"C. 9#12 + 1#12 GRD
"A"-1,3	HOMERUN TO PANEL "A" WITH 3/4"C. 3#12 + 1#12GRD AND CONNECT TO CIRCUITS #1 AND #3.
	TELEPHONE OUTLET ONE GANG BOX MOUNTED @ +15"A.F.F. W/ 3/4"C.O. STUB-UP INTO ACCESSIBLE CEILING SPACE.
	DATA/COMPUTER OUTLET ONE GANG BOX MOUNTED @ +15"A.F.F. W/ 3/4"C.O. STUB-UP INTO ACCESSIBLE CEILING SPACE.
	TELEPHONE/DATA OUTLET ONE GANG BOX MOUNTED @ +15"A.F.F. W/ 3/4"C.O. STUB-UP INTO ACCESSIBLE CEILING SPACE.
	FLUSH FLOOR BOX W/ TELEPHONE/DATA OUTLET. RUN 3/4"C.O. FROM OUTLET TO CLOSER WALL AND STUB UP INTO ACCESSIBLE CEILING SPACE.
	T.V. OUTLET WITH (2) JACKS, CABLE TV AND SATELITE SIGNAL. STUB-UP 1"C.O. TO ACCESSIBLE CEILING SPACE. VERIFY MOUNTING HEIGHT WITH ARCHITECT BEFORE INSTALLATION.
	AUDIO/VISUAL DOOR BELL
	JUNCTION BOX WITH 120V CIRCUIT.
	GARBAGE DISPOSAL OUTLET UNDER THE SINK.
	FLUSH FLOOR BOX WITH DUPLEX RECEPTACLE
	GROUNDING TYPE DUPLEX CONVENIENCE OUTLET @ +15"A.F.F. TO BOTTOM OF BOX.
	HALF SWITCHED GROUNDING TYPE DUPLEX CONVENIENCE OUTLET @ +15"A.F.F.
	GROUNDING TYPE DOUBLE DUPLEX CONVENIENCE OUTLET @ +15"A.F.F. TO BOTTOM OF BOX.
	GROUNDING TYPE DUPLEX CONVENIENCE OUTLET WITH GROUND FAULT INTERRUPTING, MOUNTED @ +15"A.F.F. TO BOTTOM OF BOX.
	GROUNDING TYPE DUPLEX CONVENIENCE OUTLET WITH GROUND FAULT INTERRUPTING, MOUNTED @ +48"ABOVE COUNTER.
	GROUNDING TYPE DOUBLE DUPLEX CONVENIENCE OUTLET WITH GROUND FAULT INTERRUPTING, MOUNTED @ +15"A.F.F. TO BOTTOM OF BOX.
	FLUSH FLOOR BOX WITH DOUBLE DUPLEX RECEPTACLE
	GROUNDING TYPE DUPLEX CONVENIENCE OUTLET, CEILING MOUNTED.
	SECURITY SYSTEM SENSOR
	SPECIAL OUTLET, RATING AS NOTED/REQUIRED, @ +15"A.F.F. TO BOTTOM OF BOX
	SPECIAL OUTLETS 50A–3P–480V. OR U.O.N., @ +15"A.F.F. TO BOTTOM OF BOX
	DISCONNECT SWITCH, HORSEPOWER RATED NON-FUSED, 30A–3P U.O.N.
	FUSED DISCONNECT SWITCH, HORSEPOWER RATED WITH DUAL ELEMENT, TIME DELAY TYPE. (OR AS NOTED) FUSES. OR SIZE INDICATED. U.O.N. MOUNT @ +6"–8"A.F.F. U.O.N.
	COMBINATION DISCONNECT & MAGNETIC STARTER WITH CONTROL TRANSFORMER. RATINGS AS NOTED AND AS REQUIRED BY EACH EQUIPMENT MANUFACTURER.
	MOTOR OUTLET
	MANUAL MOTOR STARTER WITH AUXILIARY CONTACT
	RECESSED MOUNTED POWER/LIGHTING PANEL, MTD. @ +6'–4" TOP OF PANEL
	SWITCHBOARD, MOTOR CONTROL CENTER.
	COMBINATION FIRE/SMOKE MOTORIZED DAMPER
	COMBINATION INFRARED HEAT LAMP/EXHAUST FAN
	CEILING SURFACE/PENDANT MOUNTED ILLUMINATED EXIT LIGHT. DARKENED PORTION INDICATES FACE OF EXIT LIGHT. DIRECTIONAL ARROW AS SHOWN.
	WALL MOUNTED TOGGLE SWITCH MOUNTED @ +48"A.F.F. SUBSCRIPT INDICATES LAMPS CONTROLLED
	WALL MOUNTED 3–WAY TOGGLE SWITCH MOUNTED @ +48"A.F.F.
	MANUAL MOTOR STARTER WITH THERMAL OVERCURRENT PROTECTION
	WALL MOUNTED DIMMER SWITCH MOUNTED @ +48"A.F.F.
	WALL MOUNTED SINGLE–SWITCH OCCUPANCY SENSOR MOUNTED @ +48"A.F.F.
	WALL MOUNTED COMBO OCCUPANCY SENSOR MANUAL DIMMER MOUNTED @ +48"A.F.F.
	PHOTOCELL
	CEILING MOUNTED OCCUPANCY SENSOR, DUAL TECHNOLOGY
	SMOKE DETECTOR
	ROOM CONTROLLER
	POWER SUPPLY
	SUBSCRIPT "N" ADJACENT TO ANY DEVICE/EQUIPMENT INDICATES NEW DEVICE/EQUIPMENT.
	SUBSCRIPT "E" ADJACENT TO ANY DEVICE/EQUIPMENT INDICATES EXISTING DEVICE/EQUIPMENT TO REMAIN.
	SUBSCRIPT "M" ADJACENT TO ANY DEVICE/EQUIPMENT INDICATES EXISTING DEVICE/EQUIPMENT TO BE RELOCATED.
	SUBSCRIPT "EM" ADJACENT TO ANY DEVICE/EQUIPMENT INDICATES EXISTING RELOCATED DEVICE/EQUIPMENT TO THIS NEW LOCATION.
	SUBSCRIPT "X" ADJACENT TO ANY DEVICE/EQUIPMENT INDICATES EXISTING DEVICE/EQUIPMENT TO BE REMOVED/ DEMO/ DISPOSED OF.
E	EQUIPMENT FURNISHED & INSTALLED BY ELECTRICAL CONTRACTOR.
EM	EQUIPMENT SUPPLIED AND WIRED BY ELECTRICAL CONTRACTOR AND INSTALLED BY MECHANICAL CONTRACTOR
A TYP	<----"A" INDICATES FIXTURE TYPE <----"TYP" INDICATES FIXTURE AND BALLAST WATTAGE
T	THERMOSTAT BY MECH. CONTRACTOR, BACKBOX & CONDUIT BY ELECTRICAL.
----E----	LINE VOLTAGE WIRING AND CONDUIT BY ELECT. CONTRACTOR
----E----	LOW VOLTAGE WIRING AND CONDUIT BY ELECT. CONTRACTOR

DRAWING INDEX

E001	GENERAL NOTES, ABBREVIATION LIST, LEGEND, APPLICABLE CODES & DRAWING INDEX
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E100	OVERALL SITE PLAN
E101	POWER PLAN – ADMIN BUILDING
E102	POWER PLAN – DORMITORY
E103	POWER PLAN – GYM
E104	POWER PLAN – KITCHEN
E105	POWER PLAN – SCHOOL
E106	POWER PLAN – SCHOOL SHOP
E107	POWER PLAN – MAINTENANCE BUILDING

APPLICABLE CODES

2022 CALIFORNIA ADMINISTRATIVE CODE (CAC)
PART 1, TITLE 24, CALIFORNIA CODE OF REGULATIONS (CCR)

2022 CALIFORNIA BUILDING CODE (CBC)
PART 2, TITLE 24, CALIFORNIA CODE OF REGULATIONS (CCR)
(BASED ON THE 2021 INTERNATIONAL BUILDING CODE AND CALIFORNIA AMENDMENTS)

2022 CALIFORNIA ELECTRICAL CODE (CEC)
PART 3, TITLE 24, CALIFORNIA CODE OF REGULATIONS (CCR)
(BASED ON THE 2021 NATIONAL ELECTRICAL CODE (NEC) AND CALIFORNIA AMENDMENTS)

2022 CALIFORNIA MECHANICAL CODE
PART 4, TITLE 24, CALIFORNIA CODE OF REGULATIONS (CCR)
(BASED ON THE 2021 UNIFORM MECHANICAL CODE (UMC) AND CALIFORNIA AMENDMENTS)

2022 CALIFORNIA PLUMBING CODE (CPC)
PART 5, TITLE 24, CALIFORNIA CODE OF REGULATIONS (CCR)
(BASED ON THE 2021 UNIFORM PLUMBING CODE (UPC) AND CALIFORNIA AMENDMENTS)

2022 CALIFORNIA FIRE CODE (CFC)
PART 9, TITLE 24, CALIFORNIA CODE OF REGULATIONS (CCR)
(BASED ON THE 2015 INTERNATIONAL FIRE CODE (IFC) AND CALIFORNIA AMENDMENTS)

2022 CALIFORNIA GREEN BUILDING STANDARDS
PART 11, TITLE 24, CALIFORNIA CODE OF REGULATIONS (CCR)

CALIFORNIA CODE OF REGULATIONS (CCR)
TITLE 19, DIVISION 1, STATE FIRE MARSHAL REGULATIONS

NFPA NO.13, 2022 EDITION, FIRE SPRINKLER STANDARDS
(WITH CALIFORNIA AMENDMENTS)

NFPA NO.72, 2022 EDITION, NATIONAL FIRE ALARM CODE
(WITH CALIFORNIA AMENDMENTS)

IN THE EVENT THAT TWO OR MORE REGULATIONS CONFLICT, THE MORE RESTRICTIVE SHALL GOVERN.

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CONSULTANT

BuildingSolutionsGroup.com
HVAC Engineering Design Consulting
Job No. 2023
Job / MES-097-20

ARCHITECT SEAL

CONSULTANT SEAL

BID SET

ISSUED BLOCK / HISTORY LOG

NO.	ISSUED	DATE
	PLANCHECK	05/03/2024
	BID SET	11/11/2024

AGENCY APPLICATION NUMBER
UNC-MECH240510001771

AGENCY APPROVAL STAMP

PROJECT NAME
CAMP AFFLERBAUGH
CCTV SYSTEM

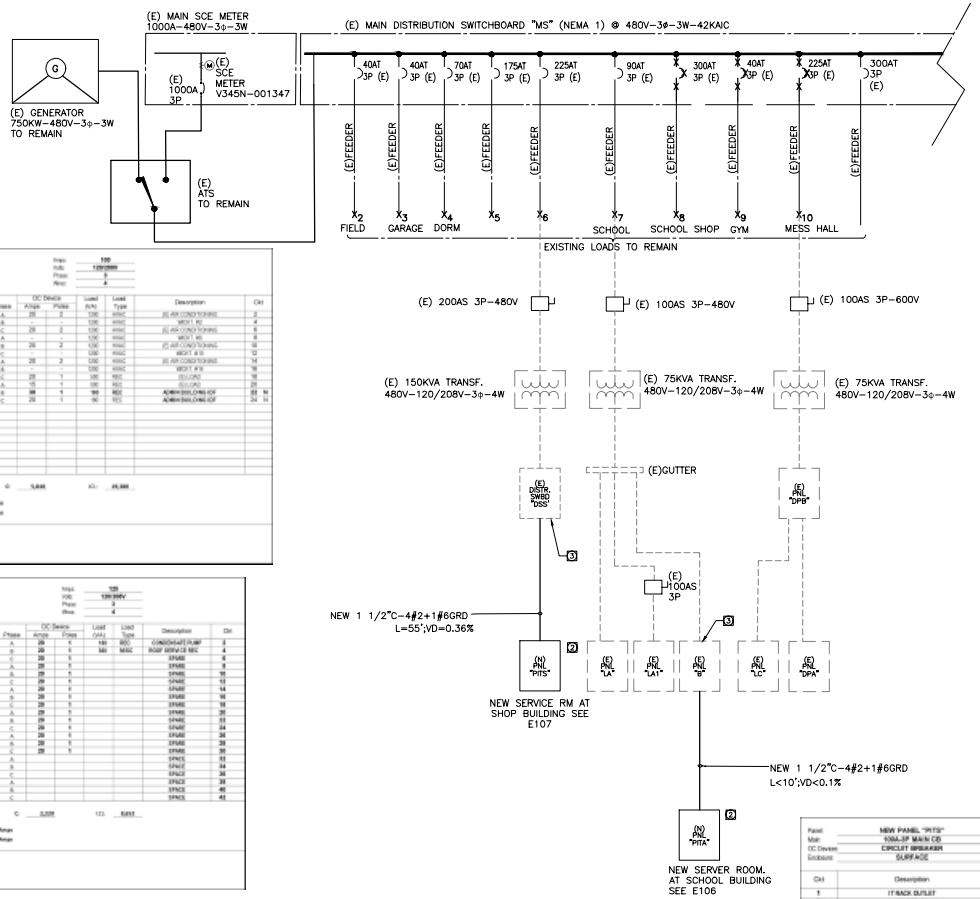
FACILITY NAME
CAMP AFFLERBAUGH

PROJECT ADDRESS
6631 STEPHENS RANCH ROAD
LA VERNE, CA 91750

SHEET TITLE
GENERAL NOTES, ABBREVIATIONS LIST, LEGEND, APPLICABLE CODES AND DRAWING INDEX

H2 PROJ. NO.	R3110582.01	LA DPW SPEC NO.	7701
		PERMIT NO.	

E001



GENERAL NOTES:

1. FEEDERS LENGTH INDICATED ON THE DRAWINGS ARE FOR CALCULATIONS PURPOSE ONLY. CONTRACTOR SHALL NOT USE THE INDICATED LENGTH FOR BIDDING.

REFERENCE NOTES

1. REPLACE EXISTING PANEL WITH NEW PANEL AT SAME LOCATION. RECONNECT EXISTING FEEDER AND ALL EXISTING BRANCH CIRCUITS.
2. ALL CIRCUIT BREAKERS IN THIS PANEL SHALL HAVE A SHORT CIRCUIT INTERRUPTING RATING OF MINIMUM 10,000A, AND THE PANEL SHALL HAVE A BRACING RATING OF 10,000A MINIMUM.
3. ADD NEW 100A–3P CIRCUIT BREAKER IN EXISTING PANEL/SWBD.

ELECTRICAL SERVICE "MS" LOAD CALCULATION

EXISTING PEAK DEMAND OF EXISTING 3000A SERVICE	251 KW	AT 0.8P.F.	314
NEW CCTV SYSTEM PROJECTED LOAD WITH EXPANSION	60	KVA	60
		SUB TOTAL	374
30% SPARE CAPACITY REQUIRED BY THE COUNTY		KVA	112
		TOTAL PROJECTED LOAD KVA	486
	TOTAL AMPS	377/480V–3PH–4W	585.8

(E) PANEL "DPB"

Panel:	(E) PANEL "DPB"
Mfr:	NLO
OC Device:	CIRCUIT BREAKER
Enclosure:	GARAGE
Amps:	100
Volts:	120/208V
Phase:	3
Wire:	4

Ckt	Description	Load Type	Load (VA)	OC Device Amps	OC Device Poles	Phase	OC Device Amps	OC Device Poles	Load (VA)	Load Type	Description	Ckt
1	(E) AIR CONDITIONING	HVAC	1200	20	2	A	20	2	1200	HVAC	(E) AIR CONDITIONING	2
3	WCKT #1	HVAC	1200		-	B		-	1200	HVAC	WCKT #2	4
5	(E) AIR COND. SEC. OFFICE	HVAC	1200	20	2	C	20	2	1200	HVAC	(E) AIR CONDITIONING	6
7	WCKT #3	HVAC	1200		-	A		-	1200	HVAC	WCKT #4	8
9	(E) AIR CONDITIONING	HVAC	1200	20	2	B	20	2	1200	HVAC	(E) AIR CONDITIONING	10
11	WCKT #5	HVAC	1200		-	C		-	1200	HVAC	WCKT # 6	12
13	(E) AIR CONDITIONING	HVAC	1200	20	2	A	20	2	1200	HVAC	(E) AIR CONDITIONING	14
15	WCKT #7	HVAC	1200		-	B		-	1200	HVAC	WCKT # 8	16
17 N	NEW WORKSTATION DIRECTOR'S OFFICE	REC	360	20	1	C	20	1	180	REC	(E) LIGHT	18
19 N	NEW WORKSTATION DIRECTOR'S OFFICE	REC	360	20	1	A	15	1	180	REC	(E) LIGHT	20
21 N	NEW WORKSTATION DIRECTOR'S OFFICE	REC	360	20	1	B	20	1	180	REC	ALARM DISPLAYING EQP	22 M
23	SPARE					C	20	1	180	REC	ALARM DISPLAYING EQP	24 M

CONNECTED LOAD PER PHASE (VA): A: 8,960 B: 7,760 C: 5,600 (C1): 10,360

TOTAL CONNECTED LOAD: 21,640 VA — 61 Amps

WITH 25% LCL: 26,485 VA — 74 Amps

Remarks:
M: PROVIDE MULTI BREAKER TIE TO CIRCUIT BREAKERS SHARING NEUTRAL
S: SHUNT BY-PASS CIRCUIT CONTROLLERS BY AMSSL PANEL
R: RECONNECT EXISTING LOADS TO THIS CIRCUIT, MATCHING ORIGINAL

NEW PANEL "PITS"

Panel:	NEW PANEL "PITS"
Mfr:	100A–3P MAIN CB
OC Device:	CIRCUIT BREAKER
Enclosure:	SURFACE
Amps:	125
Volts:	120/208V
Phase:	3
Wire:	4

Ckt	Description	Load Type	Load (VA)	OC Device Amps	OC Device Poles	Phase	OC Device Amps	OC Device Poles	Load (VA)	Load Type	Description	Ckt
1	IT RACK OUTLET	EQUIP	1500	20	2	A	20	1	180	MISC	CONDENSATE PUMP	2
3	WI CKT #1	EQUIP	1500	–	–	B	20	1	360	MISC	OUTDOOR SERV CE REC	4
5	IT RACK OUTLET	EQUIP	1500	20	2	C	20	2	2304	HVAC	DU-III OUTDOORS	6
7	WI CKT #2	EQUIP	1500	–	–	A	–	–	2304	HVAC	WI CKT 6	8
9	IT RACK OUTLET	EQUIP	360	20	1	B	20	1			SPARE	10
11	IT RACK OUTLET	EQUIP	360	20	1	C	20	1			SPARE	12
13	IT RACK OUTLET	EQUIP	360	20	1	A	20	1			SPARE	14
15	IT RACK OUTLET	EQUIP	360	20	1	B	20	1			SPARE	16
17	IT RACK OUTLET	EQUIP	360	20	1	C	20	1			SPARE	18
19	IT RACK OUTLET	EQUIP	360	20	1	A	20	1			SPARE	20
21	IT RACK OUTLET	EQUIP	360	20	1	B	20	1			SPARE	22
23	SPARE			20	1	C	20	1			SPARE	24
25	MTR IT ROOM HVAC CU-1	HVAC	4608	30	2	A	20	1			SPARE	26
27	IN CKT #23	HVAC	4608		-	B	20	1			SPARE	28
29	SPARE			20	1	C	20	1			SPARE	30
31	SPACE					A					SPACE	32
33	SPACE					B					SPACE	34
35	SPACE					C					SPACE	36
37	SPACE					A					SPACE	38
39	SPACE					B					SPACE	40
41	SPACE					C					SPACE	42

CONNECTED LOAD PER PHASE (VA): A: 7,056 B: 6,299 C: 3,028 (C1): 6,653

TOTAL CONNECTED LOAD: 17,172 VA — 48 Amps

WITH 25% LCL: 19,305 VA — 54 Amps

Remarks:
M: PROVIDE MULTI BREAKER TIE TO CIRCUIT BREAKERS SHARING NEUTRAL
S: SHUNT BY-PASS CIRCUIT CONTROLLERS BY AMSSL PANEL
T: CIRCUIT CONTROLLED BY ASTRONOMICAL TIMECLOCK

(E) PANEL "B"

Panel:	(E) PANEL "B"
Mfr:	200A MAIN CB
OC Device:	CIRCUIT BREAKER
Enclosure:	SURFACE
Amps:	225
Volts:	120/208V
Phase:	3
Wire:	4

Ckt	Description	Load Type	Load (VA)	OC Device Amps	OC Device Poles	Phase	OC Device Amps	OC Device Poles	Load (VA)	Load Type	Description	Ckt
1	(E) CKT #1			30	3	A	30	3			CKT #2	2
3	WCKT #1				-	B		-			WCKT #2	4
5	WCKT #1				-	C		-			WCKT #2	6
7	(E) CKT #3			30	3	A	30	3			CKT #4	8
9	WCKT #1				-	B		-			WCKT #2	10
11	WCKT #1				-	C		-			WCKT #2	12
13	(E) CKT #5			30	3	A	30	3			CKT #6	14
15	WCKT #1				-	B		-			WCKT #14	16
17	WCKT #13				-	C		-			WCKT #14	18
19	(E) CKT			30	2	A	30	2			(E) CKT	20
21	(E) CKT					B					(E) CKT	22
23	(E) CKT			20	1	C	20	1			(E) ROOM 14	24
25	NEW PANEL "PITA"	MISC	1500	100	3	A	20	1			(E) ROOM 14	26
27	WCKT #23	MISC	1500			B	20	1			(E) ROOM 14	28
29	WCKT #23	MISC	1500	-	-	C	20	1			(E) COMPUTER ROOM	30 R
						A						
						B						
						C						
						A						
						B						
						C						

CONNECTED LOAD PER PHASE (VA): A: 7,956 B: 4,956 C: 2,200 (C1): -

TOTAL CONNECTED LOAD: 17,172 VA — 48 Amps

WITH 25% LCL: 21,172 VA — 58 Amps

Remarks:
M: PROVIDE MULTI BREAKER TIE TO CIRCUIT BREAKERS SHARING NEUTRAL
S: SHUNT BY-PASS CIRCUIT CONTROLLERS BY AMSSL PANEL
R: RECONNECT EXISTING LOADS TO THIS CIRCUIT, MATCHING ORIGINAL

NEW PANEL "PITS"

Panel:	NEW PANEL "PITS"
Mfr:	100A–3P MAIN CB
OC Device:	CIRCUIT BREAKER
Enclosure:	SURFACE
Amps:	125
Volts:	120/208V
Phase:	3
Wire:	4

Ckt	Description	Load Type	Load (VA)	OC Device Amps	OC Device Poles	Phase	OC Device Amps	OC Device Poles	Load (VA)	Load Type	Description	Ckt
1	IT RACK OUTLET	EQUIP	1500	20	2	A	20	1	180	MISC	CONDENSATE PUMP	2
3	WI CKT #1	EQUIP	1500	–	–	B	20	1	360	MISC	OUTDOOR SERV CE REC	4
5	IT RACK OUTLET	EQUIP	1500	20	2	C	20	2	2304	HVAC	DU-III OUTDOORS	6
7	WI CKT #2	EQUIP	1500	–	–	A	–	–	2304	HVAC	WI CKT 6	8
9	IT RACK OUTLET	EQUIP	360	20	1	B	20	1			SPARE	10
11	IT RACK OUTLET	EQUIP	360	20	1	C	20	1			SPARE	12
13	IT RACK OUTLET	EQUIP	360	20	1	A	20	1			SPARE	14
15	IT RACK OUTLET	EQUIP	360	20	1	B	20	1			SPARE	16
17	IT RACK OUTLET	EQUIP	360	20	1	C	20	1			SPARE	18
19	IT RACK OUTLET	EQUIP	360	20	1	A	20	1			SPARE	20
21	IT RACK OUTLET	EQUIP	360	20	1	B	20	1			SPARE	22
23	SPARE			20	1	C	20	1			SPARE	24
25	SPARE			20	1	A	20	1			SPARE	26
27	SPARE			20	1	B	20	1			SPARE	28
29	SPARE			20	1	C	20	1			SPARE	30
31	SPACE					A					SPACE	32
33	SPACE					B					SPACE	34
35	SPACE					C					SPACE	36
37	SPACE					A					SPACE	38
39	SPACE					B					SPACE	40
41	SPACE					C					SPACE	42

CONNECTED LOAD PER PHASE (VA): A: 9,204 B: 2,248 C: 4,024 (C1): 4,608

TOTAL CONNECTED LOAD: 15,668 VA — 38 Amps

WITH 25% LCL: 14,820 VA — 42 Amps

Remarks:
M: PROVIDE MULTI BREAKER TIE TO CIRCUIT BREAKERS SHARING NEUTRAL
S: SHUNT BY-PASS CIRCUIT CONTROLLERS BY AMSSL PANEL
T: CIRCUIT CONTROLLED BY ASTRONOMICAL TIMECLOCK

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MBS-097-20

ARCHITECT SEAL

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BID SET

ISSUED BLOCK / HISTORY LOG

NO.	ISSUED	DATE
	PLANCHECK	05/02/2024
	BID SET	11/11/2024

AGENCY APPLICATION NUMBER
UNC-MECH240510001771

AGENCY APPROVAL STAMP

PROJECT NAME
CAMP AFFLERBAUGH
CCTV SYSTEM

FACILITY NAME
CAMP AFFLERBAUGH

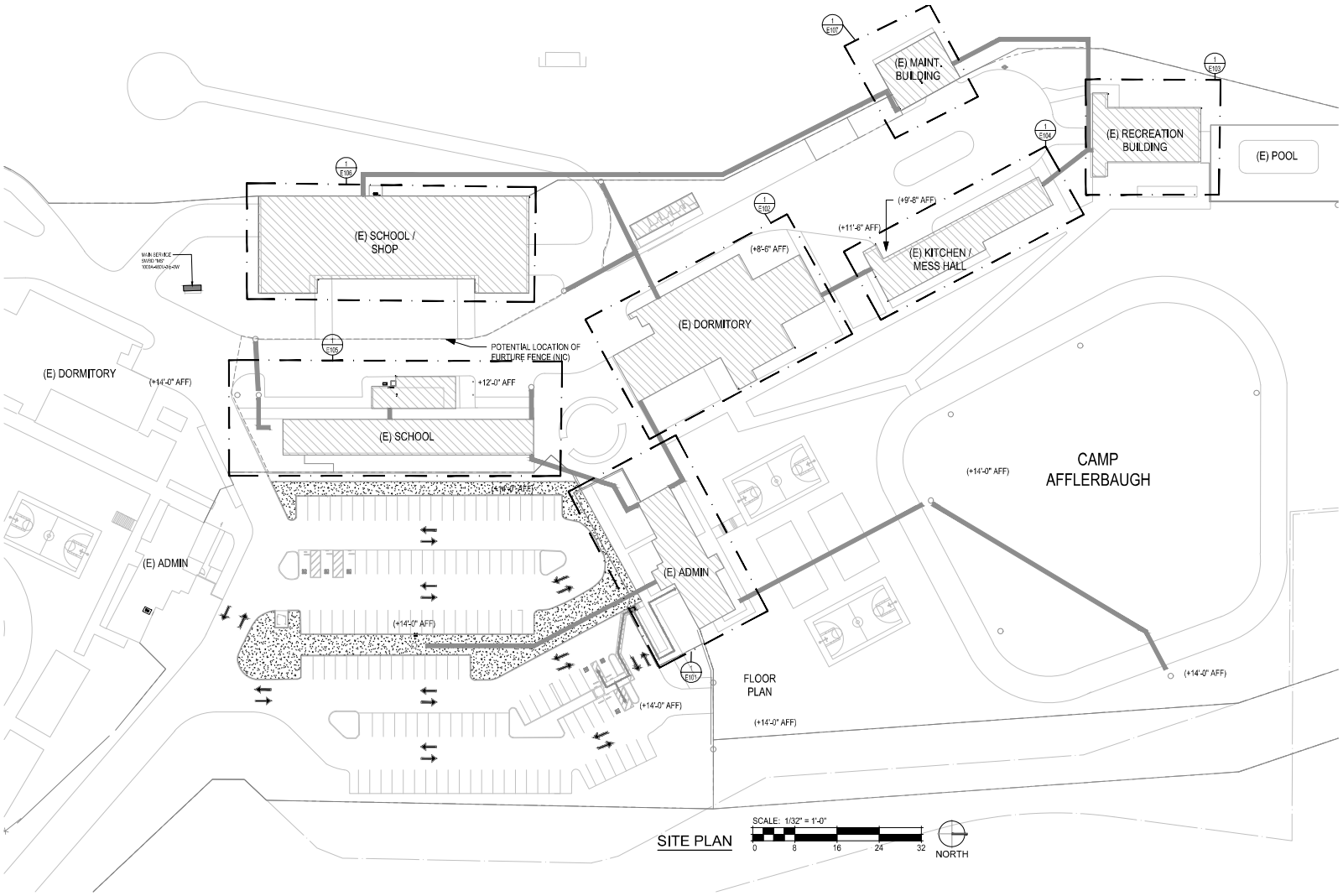
PROJECT ADDRESS
6631 STEPHENS RANCH ROAD
LA VERNE, CA 91750

SHEET TITLE
SINGLE LINE DIAGRAM, DETAILS & PANEL SCHEDULES

HZ PROJ. NO. R311693L04 | LA DPW SPEC NO. 7701

PERMIT NO.

E002



SITE PLAN

HUITT-ZOLLARS

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ADVANCEDESIGN

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CONSULTANT

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ARCHITECT SEAL

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BID SET

ISSUED BLOCK / HISTORY LOG

NO.	ISSUED	DATE
	PLANCHECK	09/03/2024
	BID SET	11/11/2024

AGENCY APPLICATION NUMBER

AGENCY APPROVAL STAMP

PROJECT NAME
CAMP AFFLERBAUGH
CCTV SYSTEM

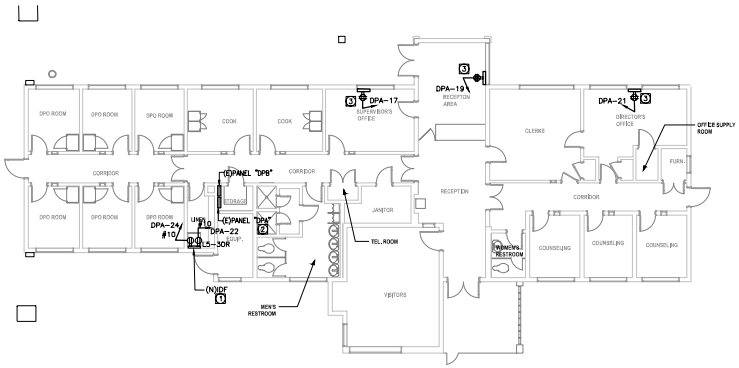
FACILITY NAME
CAMP AFFLERBAUGH

PROJECT ADDRESS
6631 STEPHENS RANCH ROAD
LA VERNE, CA 91750

SHEET TITLE
OVER ALL SITE PLAN

HZ PROJ. NO. R3916658.04 | LA DPW SPCC NO. 7701
SCALE: 1/32" = 1'-0" | PERMIT NO.

E100



1 E101 ADMIN BUILDING ELECTRICAL PLAN SCALE: 1/8" = 1'-0"

0 8 16 24 32

NORTH

GENERAL NOTES

1. VISIT AND INVESTIGATE THE SITE AND VERIFY EXACT CONDITIONS RELATING TO WORK AND OBTAIN SUCH INFORMATION AS MAY BE NECESSARY TO PROVIDE AN INTELLIGENT AND CONCLUSIVE BID. NO ALLOWANCE WILL BE MADE FOR ANY EXTRA EXPENSE DUE TO FAILURE TO MAKE SUCH AN INVESTIGATION.
2. ALL CONDUITS SHALL BE RUN WITH A GROUND WIRE SIZE AS PER NEC –250.
3. SEE ARCHITECTURAL, MECHANICAL AND PLUMBING DRAWINGS FOR EXACT LOCATION OF THE EQUIPMENT AND POWER NEEDS.
4. SEE SECURITY CONSULTANT DRAWINGS AND PROVIDE ALL THE POWER OUTLETS INDICATED THERE TO POWER THE RACKS. COORDINATE EXACT LOCATION AND RATING OF THE NEW RACKS POWER OUTLETS WITH THE SECURITY SYSTEM CONSULTANT AND INSTALLER.

REFERENCE NOTES

1. NEW SECURITY EQUIPMENT POWER DUPLEX OUTLET. 30A–120V NEMA L5–30R VERIFY LOCATION WITH EQUIPMENT INSTALLER.INSTALL OUTLET INSIDE THE IDF CANBINET. VERIFY EXACT TYPE OF OUTLET BEFORE INSTALLATION WITH EQUIPMENT SUPPLIER.
2. ADD NEW 30A–1P CIRCUIT BREAKER TO MATCH EXISTING AT INDICATED POSITION ON THIS EXISTING PANEL.
3. NEW 20A–1P OUTLET. VERIFY EXACT LOCATION ON THE FIELD.

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ARCHITECT SEAL

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NO.	ISSUED	DATE
	PLANCHECK	05/03/2024
	BID SET	11/11/2024

AGENCY APPLICATION NUMBER

UNC-MECH240510001771

AGENCY APPROVAL STAMP

PROJECT NAME

CAMP AFFLERBAUGH
CCTV SYSTEM

FACILITY NAME

CAMP AFFLERBAUGH

PROJECT ADDRESS

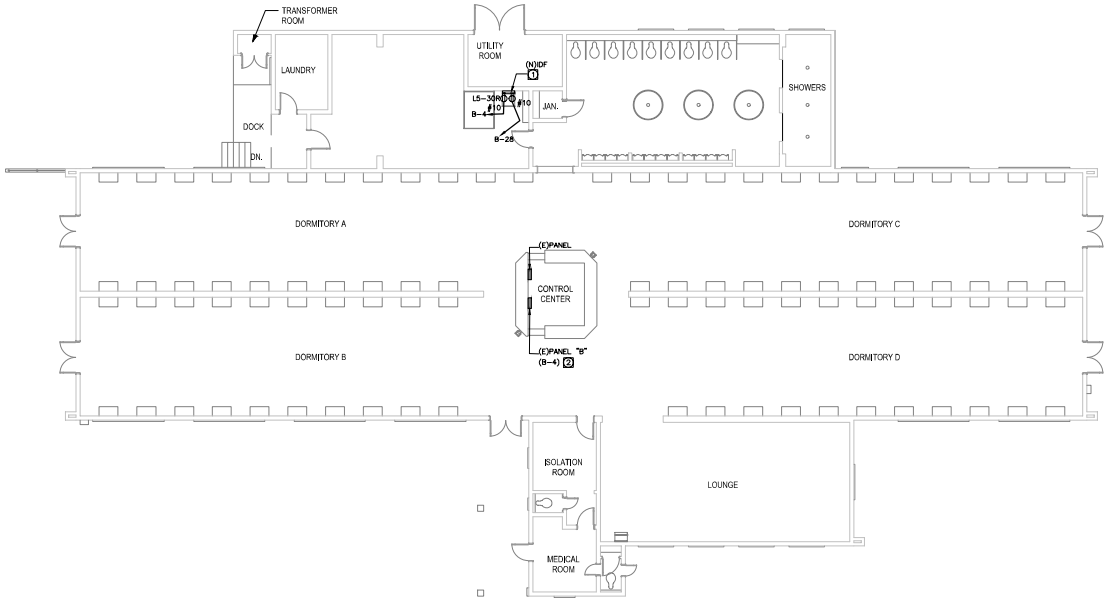
6631 STEPHENS RANCH ROAD
LA VERNE, CA 91750

SHEET TITLE

POWER PLAN -
ADMIN BUILDING

HZ PROJ. NO.	R3116584.04	LA DPW SPEC NO.	7701
SCALE: 1/8" = 1'-0"		PERMIT NO.	

E101



1 / E102 BOYS DORMITORY ELECTRICAL PLAN

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

0 8 16 24 32

NORTH

GENERAL NOTES

1. VISIT AND INVESTIGATE THE SITE AND VERIFY EXACT CONDITIONS RELATING TO WORK AND OBTAIN SUCH INFORMATION AS MAY BE NECESSARY TO PROVIDE AN INTELLIGENT AND CONCLUSIVE BID. NO ALLOWANCE WILL BE MADE FOR ANY EXTRA EXPENSE DUE TO FAILURE TO MAKE SUCH AN INVESTIGATION.
2. ALL CONDUITS SHALL BE RUN WITH A GROUND WIRE SIZE AS PER NEC -250. FOR THIS SCOPE, #12 GRD EQUIPMENT GROUND IS CODE COMPLIANT.
3. RUN BRANCH CIRCUIT USING METALLIC SURFACE RACEWAY V700 FROM WIREMOLD COLOR WHITE PAINTED TO MATCH WALLS.

REFERENCE NOTES

1. NEW SECURITY EQUIPMENT POWER DUPLEX OUTLET, 30A-120V NEMA L5-30R VERIFY LOCATION WITH EQUIPMENT INSTALLER.INSTALL OUTLET INSIDE THE IDF CABINNET. VERIFY EXACT TYPE OF OUTLET BEFORE INSTALLATION WITH EQUIPMENT SUPPLIER.
2. ADD NEW 30A-1P CIRCUIT BREAKER TO MATCH EXISTING AT INDICATED POSITION ON THIS EXISTING PANEL.

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ARCHITECT SEAL

CONSULTANT SEAL

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UNC-MECH240510001771

AGENCY APPROVAL STAMP

PROJECT NAME
CAMP AFFLERBAUGH
CCTV SYSTEM

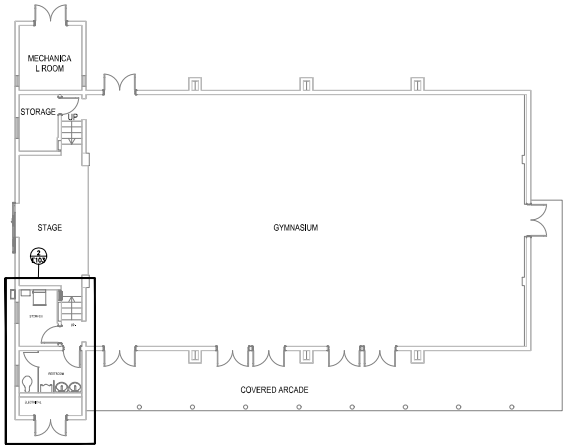
FACILITY NAME
CAMP AFFLERBAUGH

PROJECT ADDRESS
6631 STEPHENS RANCH ROAD
LA VERNE, CA 91750

SHEET TITLE
POWER PLAN - DORMITORY

HZ PROJ. NO.	R31658.04	LA DPW SPEC NO.	7701
		PERMIT NO.	

E102

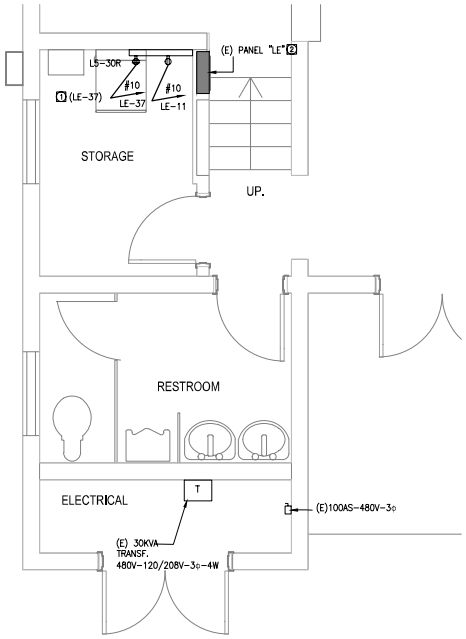


1 E103 EXISTING GYM ELECTRICAL PLAN

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

0 8 16 24 32

NORTH



2 E103 ENGLARGED GYM ELECTRICAL PLAN

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

0 8 16 24 32

NORTH

GENERAL NOTES

1. VISIT AND INVESTIGATE THE SITE AND VERIFY EXACT CONDITIONS RELATING TO WORK AND OBTAIN SUCH INFORMATION AS MAY BE NECESSARY TO PROVIDE AN INTELLIGENT AND CONCLUSIVE BID. NO ALLOWANCE WILL BE MADE FOR ANY EXTRA EXPENSE DUE TO FAILURE TO MAKE SUCH AN INVESTIGATION.
2. ALL CONDUITS SHALL BE RUN WITH A GROUND WIRE SIZE AS PER NEC -250. FOR THIS SCOPE #12 GRD EQUIPMENT GROUND IS CODE COMPLIANT.
3. RUN BRANCH CIRCUIT USING METALLIC SURFACE RACEWAY V700 FROM WIREMOLD COLOR WHITE PAINTED TO MATCH WALLS.

REFERENCE NOTES

1. NEW SECURITY EQUIPMENT POWER DUPLEX OUTLET. 30A-120V NEMA L5-30R VERIFY LOCATION WITH EQUIPMENT INSTALLER.INSTALL OUTLET INSIDE THE IDF CANBINET. VERIFY EXACT TYPE OF OUTLET BEFORE INSTALLATION WITH EQUIPMENT SUPPLIER.
2. ADD NEW 30A-1P CIRCUIT BREAKER TO MATCH EXISTING AT INDICATED POSITION ON THIS EXISTING PANEL.

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ADVANCEDESIGN

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CONSULTANT
BSG
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Los Angeles County CA : 626.281.6203
MRS-097-20

ARCHITECT SEAL

CONSULTANT SEAL

BID SET

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NO.	ISSUED	DATE
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AGENCY APPLICATION NUMBER

AGENCY APPROVAL STAMP

PROJECT NAME
CAMP AFFLERBAUGH
CCTV SYSTEM

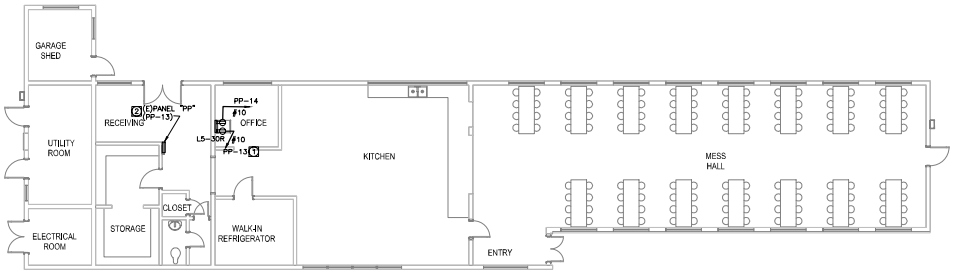
FACILITY NAME
CAMP AFFLERBAUGH

PROJECT ADDRESS
6631 STEPHENS RANCH ROAD
LA VERNE, CA 91750

SHEET TITLE
POWER PLAN- GYM

HZ PROJ. NO.	R31165824	LA DPW SPEC NO.	7701
		PERMIT NO.	

E103



1 E104 EXISTING KITCHEN ELECTRICAL PLAN

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

0 8 16 24 32

NORTH

GENERAL NOTES

1. VISIT AND INVESTIGATE THE SITE AND VERIFY EXACT CONDITIONS RELATING TO WORK AND OBTAIN SUCH INFORMATION AS MAY BE NECESSARY TO PROVIDE AN INTELLIGENT AND CONCLUSIVE BID. NO ALLOWANCE WILL BE MADE FOR ANY EXTRA EXPENSE DUE TO FAILURE TO MAKE SUCH AN INVESTIGATION.
2. ALL CONDUITS SHALL BE RUN WITH A GROUND WIRE SIZE AS PER NEC -250. FOR THIS SCOPE #12 GRD EQUIPMENT GROUND IS CODE COMPLIANT.
3. RUN BRANCH CIRCUIT USING METALLIC SURFACE RACEWAY V700 FROM WIREMOLD COLOR WHITE PAINTED TO MATCH WALLS.

REFERENCE NOTES

1. NEW SECURITY EQUIPMENT POWER DUPLEX OUTLET. 30A-120V NEMA L5-30R VERIFY LOCATION WITH EQUIPMENT INSTALLER.INSTALL OUTLET INSIDE THE IDF CANBINET. VERIFY EXACT TYPE OF OUTLET BEFORE INSTALLATION WITH EQUIPMENT SUPPLIER.
2. ADD NEW 30A-1P CIRCUIT BREAKER TO MATCH EXISTING AT INDICATED POSITION ON THIS EXISTING PANEL.

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ASCE 7-16 Seismic Design Consulting
Job # MES-097-20

ARCHITECT SEAL

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BID SET

ISSUED BLOCK / HISTORY LOG

NO.	ISSUED	DATE
	PLANCHECK	05/03/2024
	BID SET	11/11/2024

AGENCY APPLICATION NUMBER
UNC-MECH240510001771

AGENCY APPROVAL STAMP

PROJECT NAME
CAMP AFFLERBAUGH
CCTV SYSTEM

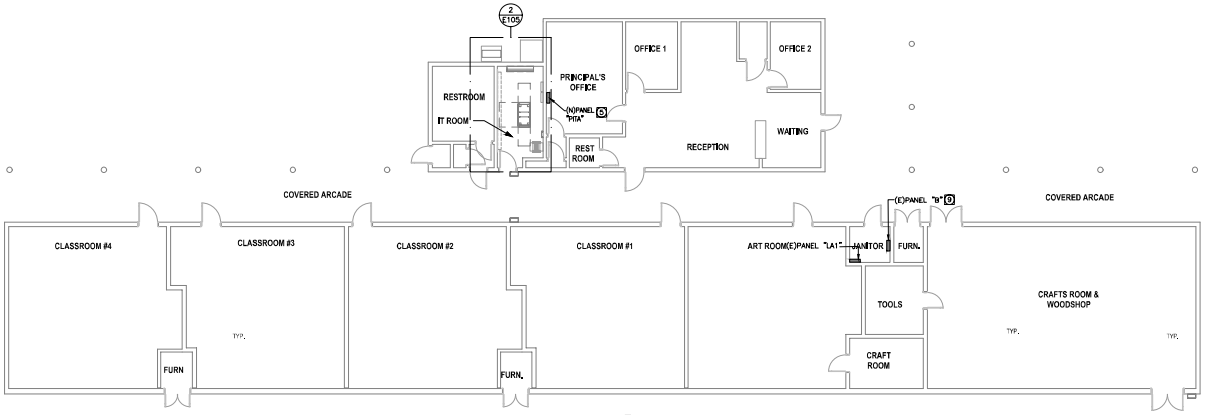
FACILITY NAME
CAMP AFFLERBAUGH

PROJECT ADDRESS
6631 STEPHENS RANCH ROAD
LA VERNE, CA 91750

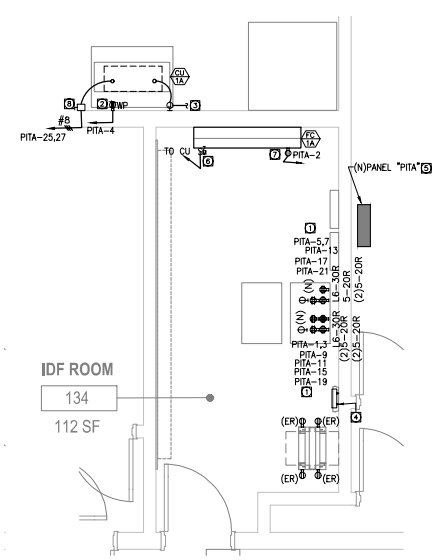
SHEET TITLE
POWER PLAN-
KITCHEN

HZ PROJ. NO.	R31658J04	LA DPW SPEC NO.	7701
		PERMIT NO.	

E104



1 E105 SCHOOL ELECTRICAL PLAN



2 E105 SCHOOL IDF ROOM ENLARGED PLAN

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

0 8 16 24 32

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

0 8 16 24 32

NORTH

GENERAL NOTES

1. VISIT AND INVESTIGATE THE SITE AND VERIFY EXACT CONDITIONS RELATING TO WORK AND OBTAIN SUCH INFORMATION AS MAY BE NECESSARY TO PROVIDE AN INTELLIGENT AND CONCLUSIVE BID. NO ALLOWANCE WILL BE MADE FOR ANY EXTRA EXPENSE DUE TO FAILURE TO MAKE SUCH AN INVESTIGATION.
2. ALL CONDUITS SHALL BE RUN WITH A GROUND WIRE SIZE AS PER NEC -250. FOR THIS SCOPE #12 GRD EQUIPMENT GROUND IS CODE COMPLIANT.
3. RUN BRANCH CIRCUIT USING METALLIC SURFACE RACEWAY V700 FROM WIREMOLD COLOR WHITE PAINTED TO MATCH WALLS.

REMODEL REFERENCE NOTES

1. NEW SECURITY EQUIPMENT POWER OUTLETS. VERIFY LOCATION & RATING WITH EQUIPMENT DESIGNER.
2. OUTDOOR GFUMP POWER SERVICE OUTLET FOR HVAC UNIT. COORDINATE WITH HVAC CONTRACTOR EXACT LOCATION.
3. RUN 3/4"C. TO INDOOR FANCOIL WITH ALL CONTROL AND POWER WIRING.
4. NEW BUSBAR PER SPECS ON SECURITY DRAWINGS. CONNECT TO NEW PANEL: "PITA" GROUND BUS USING 1"C-1#6GRD.CU.
5. NEW WALL MOUNTED SURFACE BRANCH CIRCUIT PANEL. USE UNISTRUT CHANNELS FOR INSTALLATION.
6. FAN COIL UNIT DISCONNECT SWITCH 30AS-2P-240V-15AF. COORDINATE WITH HVAC CONTRACTOR EXACT LOCATION. POWER COMING FROM OUTDOOR CONDENSING UNIT.
7. POWER OUTLET FOR CONDENSATE PUMP.
8. WALL MOUNTED DISCONNECT SWITCH 60AS-2P-240V-35AF, WP FOR HVAC UNIT. COORDINATE WITH HVAC CONTRACTOR EXACT LOCATION.
9. ADD NEW 100A-3P CIRCUIT BREAKER TO MATCH EXISTING AT INDICATED POSITION ON THIS EXISTING PANEL TO POWER NEW TELECOM PANEL.

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CONSULTANT

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Job # M25-097-20

ARCHITECT SEAL

CONSULTANT SEAL

BID SET

ISSUED BLOCK / HISTORY LOG

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	PLANCHECK	05/03/2024
	BID SET	11/11/2024

AGENCY APPLICATION NUMBER
UNC-MECH240510001771

AGENCY APPROVAL STAMP

PROJECT NAME
CAMP AFFLERBAUGH
CCTV SYSTEM

FACILITY NAME
CAMP AFFLERBAUGH

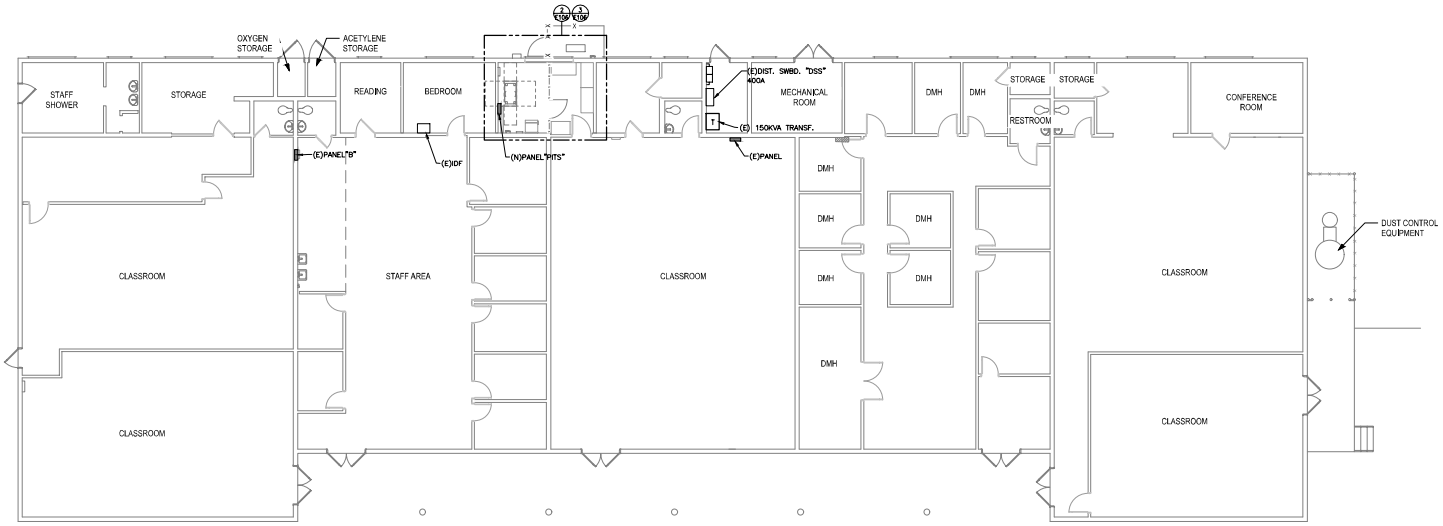
PROJECT ADDRESS
6631 STEPHENS RANCH ROAD
LA VERNE, CA 91750

SHEET TITLE
POWER PLAN- SCHOOL

H2 PROJ. NO. R31658J24 | LA DPW SPEC NO. 7701

PERMIT NO.

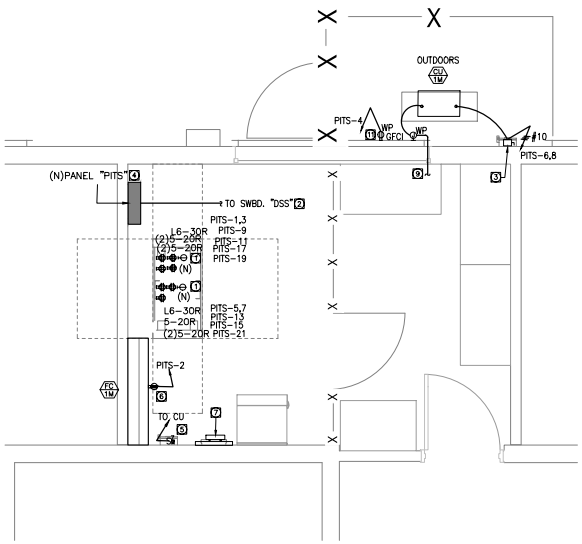
E105



1 E106 SCHOOL SHOP ELECTRICAL PLAN

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

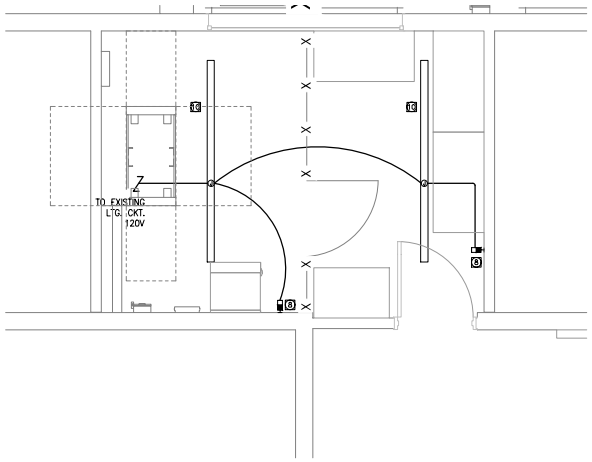
0 8 16 24 32 NORTH



2 E106 ENLARGED SCHOOL SHOP PLAN
MECHANICAL/TELECOMM ROOM POWER PLAN

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

0 8 16 24 32 NORTH



3 E106 MECHANICAL/TELECOM ROOM 1 SCHOOL
LIGHTING PLAN

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

0 8 16 24 32 NORTH

GENERAL NOTES

1. VISIT AND INVESTIGATE THE SITE AND VERIFY EXACT CONDITIONS RELATING TO WORK AND OBTAIN SUCH INFORMATION AS MAY BE NECESSARY TO PROVIDE AN INTELLIGENT AND CONCLUSIVE BID. NO ALLOWANCE WILL BE MADE FOR ANY EXTRA EXPENSE DUE TO FAILURE TO MAKE SUCH AN INVESTIGATION.
2. ALL CONDUITS SHALL BE RUN WITH A GROUND WIRE SIZE AS PER NEC -250. FOR THIS SCOPE #12 GRD EQUIPMENT GROUND IS CODE COMPLIANT.
3. RUN BRANCH CIRCUIT USING METALLIC SURFACE RACEWAY V700 FROM WIREMOLD COLOR WHITE PAINTED TO MATCH WALLS.

REFERENCE NOTES

1. NEW SECURITY EQUIPMENT POWER OUTLETS. VERIFY LOCATION & RATING WITH EQUIPMENT DESIGNER.
2. RUN NEW FEEDER TO INDICATED PANEL IN ACCESSIBLE CEILING SPACE. PATCH, PAINT AND REPAIR ANY DAMAGES CREATED DURING INSTALLATION. SEE SINGLE LINE DIAGRAM FOR FEEDER SIZE.
3. WALL MOUNTED NEW DISCONNECT. USE UNISTRUT CHANNELS FOR INSTALLATION. DISCONNECT SWITCH FOR NEW OUTDOOR CONDENSING UNIT 60AS-2P-240V-MP WITH 35AF.
4. NEW WALL MOUNTED SURFACE BRANCH CIRCUIT PANEL. USE UNISTRUT CHANNELS FOR INSTALLATION.
5. FAN COIL UNIT DISCONNECT SWITCH 30AS-2P-240V-15AF. COORDINATE WITH HVAC CONTRACTOR EXACT LOCATION. POWER COMING FROM ROOF CONDENSING UNIT.
6. POWER OUTLET FOR CONDENSATE PUMP.
7. NEW BUSBAR PER SPECS ON SECURITY DRAWINGS. CONNECT TO NEW PANEL: "PITS" GROUND BUS USING 1"C-1#6GRD.CU.
8. WALL SENSOR COMBO MANUAL SWITCH. WATTSTOPPER PW-301.
9. RUN 3/4"C. TO INDOOR FANCOIL WITH ALL CONTROL AND POWER WIRING.
10. SUSPENDED 8' LINEAR LED FIXTURE 6400LM. HE WILLIAMS 76R-8'-L64-8-35K-VBY-2-120V TOTAL 43W.
11. OUTDOOR GFLWP POWER SERVICE OUTLET FOR HVAC UNIT. COORDINATE WITH HVAC CONTRACTOR EXACT LOCATION.

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ARCHITECT SEAL

CONSULTANT SEAL

BID SET

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	BID SET	11/11/2024

AGENCY APPLICATION NUMBER
UNC-MECH240510001771

AGENCY APPROVAL STAMP

PROJECT NAME
CAMP AFFLERBAUGH
CCTV SYSTEM

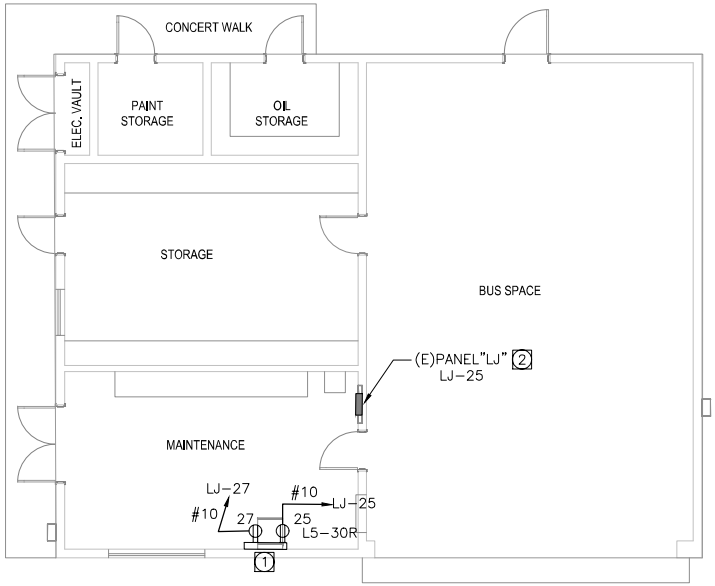
FACILITY NAME
CAMP AFFLERBAUGH

PROJECT ADDRESS
6631 STEPHENS RANCH ROAD
LA VERNE, CA 91750

SHEET TITLE
POWER PLAN- SCHOOL SHOP

H2 PROJ. NO. R3116584.04 | LA DPW SPEC NO. 7701
PERMIT NO.

E106



1 E107 MAINTENANCE BUILDING ELECTRICAL PLAN

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

0 4 8 12 16

NORTH

GENERAL NOTES

1. VISIT AND INVESTIGATE THE SITE AND VERIFY EXACT CONDITIONS RELATING TO WORK AND OBTAIN SUCH INFORMATION AS MAY BE NECESSARY TO PROVIDE AN INTELLIGENT AND CONCLUSIVE BID. NO ALLOWANCE WILL BE MADE FOR ANY EXTRA EXPENSE DUE TO FAILURE TO MAKE SUCH AN INVESTIGATION.
2. ALL CONDUITS SHALL BE RUN WITH A GROUND WIRE SIZE AS PER NEC -250. FOR THIS SCOPE #12 GRD EQUIPMENT GROUND IS CODE COMPLIANT.
3. RUN BRANCH CIRCUIT USING METALLIC SURFACE RACEWAY V700 FROM WIREMOLD COLOR WHITE PAINTED TO MATCH WALLS.

REFERENCE NOTES

1. NEW SECURITY EQUIPMENT POWER DUPLEX OUTLET, 30A-120V NEMA L5-30R VERIFY LOCATION WITH EQUIPMENT INSTALLER.INSTALL OUTLET INSIDE THE IDF CABINNET. VERIFY EXACT TYPE OF OUTLET BEFORE INSTALLATION WITH EQUIPMENT SUPPLIER.
2. ADD NEW 30A-1P CIRCUIT BREAKER TO MATCH EXISTING AT INDICATED POSITION ON THIS EXISTING PANEL.

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ARCHITECT SEAL

CONSULTANT SEAL

BID SET

ISSUED BLOCK / HISTORY LOG

NO.	ISSUED	DATE
	PLANCHECK	05/03/2024
	BID SET	11/11/2024

AGENCY APPLICATION NUMBER
UNC-MECH240510001771

AGENCY APPROVAL STAMP

PROJECT NAME
CAMP AFFLERBAUGH
CCTV SYSTEM

FACILITY NAME
CAMP AFFLERBAUGH

PROJECT ADDRESS
6631 STEPHENS RANCH ROAD
LA VERNE, CA 91750

SHEET TITLE
POWER PLAN-
MAINTENANCE
BUILDING

HZ PROJ. NO.	R3116584.04	LA DPW SPEC NO.	7701
		PERMIT NO.	

E107

NOTES

INSTALLATION NOTES

1	ALL WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE CALIFORNIA ELECTRICAL CODE AND ALL APPLICABLE LOCAL CODES. THE CONTRACTOR SHALL NOT INTERMIX ANY LINE VOLTAGE POWER WIRES (120VAC) WITH ANY LOW VOLTAGE SIGNAL OR CONTROL WIRES IN ANY CONDUIT.
2	VERIFY ALL FIELD DIMENSIONS AND CONDITIONS. NOTIFY ARCHITECT OF ANY DISCREPANCIES FOUND. VERIFY DIMENSIONS OF ALL OWNER FURNISHED EQUIPMENT & SERVICES TO ENSURE PROPER COORDINATION WITH CONSTRUCTION.
3	SCHEDULE ALL WORK, INCLUDING CONSTRUCTION ACCESS AND STORAGE, WITH THE OWNER OR THOSE DESIGNATED BY THE OWNER. THE CONSTRUCTION SCHEDULE SHALL BE APPROVED BY THE OWNER PRIOR TO THE START OF CONSTRUCTION.
4	ALL UTILITIES REQUIRED FOR THE CONTINUOUS OPERATION OF ALL EXISTING FACILITIES MUST BE MAINTAINED IN SERVICE AT ALL TIMES (IF APPLICABLE).
5	CONTRACTOR SHALL PROVIDE DUST PROTECTION AS REQUIRED TO CONTAIN DUST AND DEBRIS WITHIN CONSTRUCTION AREA. BROOM CLEAN ALL AREAS EACH DAY.
6	COORDINATE WITH THE OWNER TO DETERMINE IF REMOVED ITEMS (IF APPLICABLE) WILL BE KEPT BY THE OWNER. COORDINATE A STORAGE LOCATION AND DELIVER AS DIRECTED BY THE OWNER. DISPOSAL OF OLD EQUIPMENT SHALL BE IN ACCORDANCE WITH FEDERAL, STATE AND LOCAL LAWS.
7	WORK SHALL BE EXECUTED IN A CAREFUL AND ORDERLY MANNER WITH THE LEAST POSSIBLE DISTURBANCE TO THE PUBLIC AND OCCUPANTS OF EXISTING BUILDINGS. INTERRUPTING PERSONNEL AT WORK AS A RESULT OF THIS UNDERTAKING SHALL ALWAYS BE KEPT TO A MINIMUM. CONTRACTOR SHALL PROVIDE TRAFFIC AND SAFETY SIGNS AND BARRIERS WHERE NECESSARY. NO POWER LINE IN THE BUILDING SHALL BE SHUT DOWN UNLESS REQUESTED AND APPROVED BY THE OWNER IN ADVANCE.
8	THE CONTRACTORS AND SUBCONTRACTORS PERFORMING WORK ON PREMISES SHALL BE RESPONSIBLE FOR INITIATING, MAINTAINING AND SUPERVISING A REASONABLE AND PRUDENT SAFETY PROGRAM INCLUDING, BUT NOT LIMITED TO, THE ISOLATION OF WORK AREAS AND THE PROMPT REMOVAL OF ANY DEBRIS OR TOOLS WHICH MIGHT ENDANGER VISITORS OR EMPLOYEES OF THE FACILITY. ALL ROADS AND WALKWAYS SHALL REMAIN CLEAR AND UNOBSTRUCTED, WHEN NECESSARY ALTERNATE ROUTES MUST BE MAINTAINED. SHOULD UNSAFE CONDITIONS OCCUR,
9	COORDINATION WITH OTHER CONTRACTORS IF ANY PART OF THE CONTRACTOR'S WORK DEPENDS UPON THE WORK OF A SEPARATE CONTRACTOR, THIS CONTRACTOR SHALL INSPECT SUCH OTHER WORK AND PROMPTLY REPORT IN WRITING TO THE PROJECT ARCHITECT ANY DEFECTS IN SUCH OTHER WORK THAT RENDER IT UNSUITABLE TO RECEIVE THE WORK OF THIS CONTRACTOR. FAILURE TO INSPECT AND REPORT SHALL CONSTITUTE AN ACCEPTANCE OF THE OTHER CONTRACTOR'S WORK EXCEPT AS TO DEFECTS WHICH DEVELOP IN OTHER CONTRACTOR'S WORK AFTER EXECUTION OF THIS CONTRACTOR'S WORK.
10	THE CONTRACTOR SHALL ALWAYS MAINTAIN, AT THE JOB SITE, UPDATED "RECORD" DRAWINGS. THESE DRAWINGS SHALL BE AVAILABLE TO THE ARCHITECTS, INSPECTORS OR THE OWNERS UPON REQUEST.
11	NO CABLE RUN SHALL BE SPLICED UNLESS TWO OR MORE DEVICES ARE CONNECTED TO THE SAME CIRCUIT OR THE DEVICE IS PROVIDED FROM THE FACTORY WITH PIGTAIL WIRES. WHERE SPLICING IS REQUIRED, THE SPLICE SHALL BE SOLDERED AND TAPED. IT SHALL BE DONE IN EITHER A SPECIAL TERMINAL BOX, AT THE BACK BOX OR AT THE DEVICE TERMINAL LUGS. ALL SPLICE BOXES MUST BE IN ACCESSIBLE AREAS AND CLEARLY MARKED ON THE RECORD DRAWINGS.
12	ALL WIRES SHALL BE COLOR CODED AND SHALL BE CONNECTED IN A UNIFORM MANNER. TRANSPOSING OR CHANGING OF COLOR CODES SHALL NOT BE PERMITTED. WIRE AND CABLE SIZES, NUMBER OF CONDUCTORS, SHIELDING OR OTHER ITEMS LISTED ON THESE DRAWINGS ARE A GUIDE TO THE CORRECT PRODUCT REQUIRED TO ACHIEVE A WORKING SYSTEM AND REPRESENT THE MINIMUM ACCEPTABLE STANDARDS. CONTRACTOR SHALL CONSULT MANUFACTURER'S RECOMMENDATION FOR CABLING AND USE WHICHEVER IS GREATER IN QUALITY, QUANTITY, GAUGE, SHIELDING AND NUMBER OF CONDUCTORS.
13	ALL WIRING, INCLUDING SHIELDS, MUST BE FREE OF SHORTS, GROUNDS AND STRAY VOLTAGES. ALL RATED FOR WET APPLICATIONS. ALL EXPOSED SURFACE MOUNTED CABLE UNDER 12' A.F.F. SHALL BE IN CONDUIT WHERE INSTALLED IN AREAS WITHOUT CEILINGS.
14	ALL NEW CABLING SHALL BE PLENUM-RATED. EXPOSED OR EXTERIOR CABLE SHALL BE IN CONDUIT. UNDER GROUND CABLE SHALL BE RATED FOR SUCH USE. INSTALL CABLE ON J HOOKS.
15	A PRE PRINTED VINYL MATERIAL MARKER WRAPPED IN ADHESIVE CLEAR PLASTIC SHALL BE PROVIDED TO THE FOLLOWING: A.CABLES WITHIN 8" UPON ENTRY AT ANY SECURITY PANEL, TERMINATION OR SPLICE BOX. B.ALL WIRE LEADS WITHIN 2" FROM ANY TERMINAL BLOCK. C.THE CONTRACTOR SHALL SUBMIT SAMPLES OF MARKERS AND ANY NUMBERING OR MARKING SYSTEM FOR REVIEW PRIOR TO IMPLEMENTATION.
16	THE CONTRACTOR SHALL PROPERLY SEAL ALL CONDUIT OR SLEEVE PENETRATIONS THROUGH ALL WALLS, FLOORS AND CEILINGS USING APPROVED FIRE STOPPING MATERIALS AND SEALANTS REGARDLESS OF RATING AND AS PER APPLICABLE BUILDING CODES.
17	ALL ROUTING OF WIRING AND ANY RELATED CONDUIT IS DIAGRAMMATIC, CONTRACTOR SHALL FIELD VERIFY EXACT ROUTING PRIOR TO INSTALLATION.
18	THE CONTRACTOR SHALL CLEAN AND THOROUGHLY CHECK ALL INSTALLED WORK PRIOR TO CONCEALING OF ARCHITECTURAL FINISHING. CLEAN ALL EXPOSED SURFACES AND NEW EQUIPMENT AFTER COMPLETION. THE CONTRACTOR SHALL ALSO REPAIR OR CLEAN ALL SOLIED SURFACES, PAINTED SURFACES OR DAMAGED ARCHITECTURAL FINISHES TO MATCH THE ADJACENT AREA, WHERE REQUIRED. CLEANING, PATCHING OR PAINTING TO BRING THE AFFECTED SURFACE OR FINISH BACK TO ITS ORIGINAL CONDITION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
19	COORDINATE ALL TELEPHONE AND DATA (LAN/WAN) INSTALLATION AND CONNECTION REQUIREMENTS WITH THE OWNERS IT DEPARTMENT REPRESENTATIVE AND THE GENERAL CONTRACTOR.
20	ALL CONDUITS AND CABLE PATHS SHALL RUN PARALLEL WITH OR AT RIGHT ANGLES TO THE WALLS. IF MORE THAN THREE (3) DEGREE BENDS ARE TO BE USED IN THE CONDUIT RUN, INSERT A PULL BOX. CONTRACTOR SHALL SIZE THE BOX ACCORDINGLY. CONDUITS SHALL BE SIZED AS INDICATED ON THE DRAWINGS OR LARGER AS REQUIRED TO COMPLY WITH CODE. MINIMUM ALLOWABLE CONDUIT SIZE SHALL BE 3/4".
21	WHERE THE CONTRACTOR HAS TO CHANGE ANY DEVICE TYPE OR MOUNTING TO SUIT ACTUAL CONDITIONS, THIS SHALL BE DONE WITHOUT EXTRA COST TO THE OWNERS. THIS INCLUDES ANY ADDITIONAL PART TO BE SUPPLIED BY THE CONTRACTOR TO ACCOMPLISH PROPER MOUNTING OF A DEVICE. HOWEVER, IT SHALL BE REQUESTED, SUBMITTED AND APPROVED IN WRITING BEFORE COMMENCING THE WORK.
22	PROVIDE PULL STRINGS IN ALL CONDUITS. PROVIDE BLANK COVERS ON ALL JUNCTION AND PULL BOXES.
23	THE CONTRACTOR SHALL UNDERTAKE THIS WORK IN ITS ENTIRETY IN ACCORDANCE WITH ITS DESIGN AND PURPOSE. ALL WORK SHALL BE CARRIED OUT IN A PROFESSIONAL MANNER WITH MAXIMUM EFFICIENCY AND EXCELLENT WORKMANSHIP.
24	SEE ARCHITECTURAL PLANS FOR FIRE RATED WALLS.
25	INSTALL UL-LISTED, AGENCY APPROVED WALL PENETRATIONS AT ALL CABLING WALL PENETRATION LOCATIONS.
26	THE USE OF THE WORD "PROVIDE" IN CONNECTION WITH ANY ITEM SPECIFIED, IS INTENDED TO MEAN THAT SUCH SHALL BE FURNISHED, INSTALLED AND CONNECTED, WHERE SO REQUIRED, EXCEPT AS NOTED OTHERWISE.
27	ELECTRICAL CIRCUITS SHOWN IN THIS SET ARE FOR REFERENCE ONLY AND PROVIDED AND INSTALLED BY THE ELECTRICAL CONTRACTOR. SEE ELECTRICAL SHEETS FOR CIRCUIT NUMBERS, CIRCUITING AND PANEL LOCATIONS.
28	SEE ARCHITECTURAL PLAN FOR EXITING.
29	IN THE EVENT OF A DISCREPANCY BETWEEN THE SPECIFICATIONS AND THE DRAWINGS, WHICHEVER IS MORE STRINGENT OR CALLS FOR THE HIGHEST QUANTITY OR QUALITY OF MATERIALS HAS PRECEDENCE.
30	PRIOR TO SUBMITTAL OF BID, NOTIFY, IN WRITING, SPECIFIED MATERIALS OR EQUIPMENT WHICH ARE EITHER UNAVAILABLE OR WILL CAUSE A DELAY IN CONSTRUCTION COMPLETION SCHEDULE.
31	ALL EQ" DOORS TO REMAIN FREE OPENING FROM EXIT SIDE, U, O, N.
32	THE CONTRACTOR SHALL INCLUDE ANY COORDINATION, RELAYS, TIMERS, NETWORK CARDS, TERMINAL STRIPS, ETC, REQUIRED FOR A COMPLETELY FUNCTIONAL INTERFACE WITH ELEVATOR CONTROLLERS, FIRE ALARM SYSTEMS, DOOR HARDWARE AND AUTOMATIC DOOR OPERATORS, WHICH EVER IS APPLICABLE.
33	THE WORK AS DEFINED IN THE DRAWING SERIES INCLUDING THE SYMBOLS LEGEND, GENERAL NOTES, NOTES TO SHEET, DETAILS AND FLOOR PLANS IS TO PROVIDE COMPLETE TURNKEY SECURITY SYSTEMS INCLUDING ALL SOFTWARE, HARDWARE, DEVICES, WIRE, CONDUIT, BACKBOXES, JUNCTION BOXES AND WIREWAYS.
34	COORDINATE THE WORK WITH THE RELATED WORK OF OTHER TRADES INCLUDING, BUT NOT LIMITED TO, ELECTRICAL, FIRE ALARM, IT, ELEVATOR AND DOOR HARDWARE.
35	REFER TO THE DETAILS FOR ADDITIONAL INFORMATION ON THE INSTALLATION REQUIREMENTS FOR EACH DEVICE.
36	CONDUIT, BACKBOXES, JUNCTION BOXES, WIREWAYS AND WIRING SHALL CONFORM TO THE CALIFORNIA ELECTRICAL CODE (CEC).
37	CONDUIT USED IN POTENTIALLY DAMP OR WET LOCATIONS, EXPOSED OUTDOORS OR IN HAZARDOUS AREAS SHALL BE INTERMEDIATE STEEL CONDUIT (IMC).
38	IN SLAB OR BURIED BELOW GRADE CONDUIT SHALL BE PVC.
39	CONDUIT OTHER THAN SPECIFIED TO BE IMC OR PVC SHALL BE ELECTRICAL METALLIC TUBING (EMT).
40	ROUTE CONDUIT ABOVE CEILINGS, BELOW FLOORS OR WITHIN WALLS. NO CONDUIT SHALL BE EXPOSED UNLESS APPROVED BY THE ARCHITECT/OWNER.
41	SEAL CONDUIT AND WIRING PENETRATIONS THROUGH FIRE RATED PARTITIONS AS REQUIRED BY CODE.
42	PROVIDE WATER TIGHT GLAND SEALING ASSEMBLIES WITH PRESSURE BUSHING AS REQUIRED FOR EXTERIOR PENETRATIONS.
43	PROVIDE PULL STRINGS IN ALL CONDUIT.
44	CONDUIT ROUTING SHOWN IS SCHEMATIC AND IS NOT INTENDED TO REPRESENT INSTALLED PATHS OR DISTANCES. THE INSTALLING CONTRACTOR SHALL FIELD VERIFY AND COORDINATE WITH OTHER DISCIPLINES.
45	BACKBOXES SHALL BE FLUSH MOUNTED UNLESS NOTED OTHERWISE.
46	BACKBOXES MOUNTED WITHIN FIRE RATED PARTITIONS SHALL MEET THE FIRE RATING OF THE PARTITION AS REQUIRED BY CODE.
47	PROVIDE JUNCTION AND PULL BOXES AS REQUIRED BY CEC.
48	PROVIDE BLANK COVER PLATES FOR JUNCTION AND PULL BOXES.
49	JUNCTION AND PULL BOXES LOCATED IN EXPOSED ACCESSIBLE AREAS SHALL BE SECURED WITH TAMPER PROOF SCREWS.
50	BACKBOX, JUNCTION AND PULL BOXES IN EXTERIOR LOCATIONS SHALL BE WATERPROOF.
51	ROUTE WIRING WITHIN CONDUIT OR EXPOSED WITHIN WALLS, ABOVE ACCESSIBLE CEILINGS, BELOW ACCESSIBLE FLOORS, IN CABLE TRAYS OR IN RISER CLOSETS.
52	PROVIDE WIRING SUPPORTS FASTENED TO STRUCTURE IN ACCORDANCE FOR ALL WIRING NOT ROUTED IN CONDUIT OR CABLE TRAY.

ABBREVIATIONS

(E)	EXISTING
(F)	FUTURE
(N)	NEW
(R)	RELOCATED
A.F.F.	ABOVE FINISHED FLOOR
A.G.L.	ABOVE GROUND LEVEL
AWG	AMERICAN WIRE GAUGE
BAS	BUILDING AUTOMATION SYSTEM
BKR	BREAKER
BLDG	BUILDING
B.P.	BOTTOM PLATE
C	CONDUIT
C.E.	CONTROLLER ELECTRONICS
CKT	CIRCUIT
CLG	CEILING
CONC.	CONCRETE
CONT.	CONTINUATION
DIA	DIAMETER
DIM.	DIMENSION
DPDT	DOUBLE POLE DOUBLE THROW
DWG.	DRAWING
ELECT.	ELECTRICAL
ELEV.	ELEVATION
EMT	ELECTRICAL METALLIC TUBING
FIN.	FINISHED
FLR.	FLOOR
GRD	GROUND
Hz	HERTZ
N.I.C.	NOT IN THE CONTRACT
NO.	NUMBER
O.C.	ON CENTER
PH	PHASE (ELECTRICAL)
PNL	PANEL
PTZ	PAN TILT ZOOM
PWR	POWER
RM	ROOM
RSC	RIGID STEEL CONDUIT
SHT	SHEET
SER	SECURITY EQUIPMENT ROOM
TYP	TYPICAL
U.O.N.	UNLESS OTHERWISE NOTED
V	VOLTS
VAC	VOLTS ALTERNATING CURRENT
VDC	VOLTS DIRECT CURRENT
WP	WEATHERPROOF

SYMBOL LEGEND

TYPICAL SYMBOLS

◯	NOTES TO SHEET

DEVICE LEGEND

SYMBOL	DESCRIPTION	DETAIL	MOUNTING	HEIGHT	CABLE TYPE	BACKBOX	NOTES
FA	INTERIOR FIXED LENS CAMERA - WALL MOUNTED	SEE SCHEDULE	WALL	8" B.F.C. U.O.N.	(1) CAT6 PLENUM TO IDF/MDF	4" X 4" X 2 1/8" DEEP FLUSH MOUNT BACKBOX	
FD	INTERIOR FIXED LENS CAMERA - CEILING MOUNTED	SEE SCHEDULE	CEILING		(1) CAT6 PLENUM TO IDF/MDF	4" X 4" X 2 1/8" DEEP FLUSH MOUNT BACKBOX	
FD	EXTERIOR FIXED LENS CAMERA - CORNER MOUNTED	6/SES-01	WALL	12' A.G.L. U.O.N.	(1) CAT6 PLENUM TO IDF/MMF	4" X 4" X 2 1/8" DEEP FLUSH MOUNT BACKBOX	
FD	EXTERIOR FIXED LENS CAMERA - POLE MOUNTED	7/SES-01	POLE	14' A.G.L. U.O.N.	(1) CAT6 PLENUM TO IDF/MDF	4" X 4" X 2 1/8" DEEP BACKBOX MOUNTED TO POLE	
FD	EXTERIOR FIXED LENS CAMERA - WALL MOUNTED	5/SES-01	WALL	12' A.G.L. U.O.N.	(1) CAT6 PLENUM TO IDF/MDF	4" X 4" X 2 1/8" DEEP FLUSH MOUNT BACKBOX	
AK	AUDIO INTERFACE ADAPTER	N/R	RACK MOUNTED		(1) 22/2 SHIELDED PLENUM TO IDF/MDF	SEE DETAIL	
MP	MICROPHONE	10.12/SES-01	SEE DETAIL		(1) 22/2 SHIELDED PLENUM	4" X 4" X 2 1/8" DEEP FLUSH MOUNT BACKBOX	
NVR	NETWORK VIDEO RECORDER	N/R	RACK MOUNTED		(1) CAT6 PLENUM TO IDF/MDF	RACK MOUNTED	
POE	POWER OVER ETHERNET SWITCH	N/R	RACK MOUNTED		(1) CAT6 PLENUM TO IDF/MDF	RACK MOUNTED	
WS	WORKSTATION	N/R	DESK MOUNTED		(1) CAT6 PLENUM TO IDF/MDF	DESK MOUNTED	

SHEET INDEX

SHEET	DESCRIPTION
SE0-00	SECURITY GENERAL INFORMATION AND SYMBOL LEGEND
SE1-00	SECURITY SITE PLAN
SE1-01	SECURITY DORM AND MECHANICAL FLOOR PLAN
SE1-02	SECURITY KITCHEN/MESS HALL FLOOR PLAN
SE1-03	SECURITY ADMIN BUILDING FLOOR PLAN
SE1-04	SECURITY RECREATION BUILDING FLOOR PLAN
SE1-05	SECURITY SCHOOL BUILDING FLOOR PLAN
SE1-06	SECURITY SCHOOL ANNEX FLOOR PLAN
SES-01	SECURITY DETAILS
SRS-01	SECURITY LINE DIAGRAM AND SCHEDULES
T1-00	TELECOM SITE PLAN
T1-01	TELECOM DORM AND MECHANICAL FLOOR PLAN
T1-02	TELECOM KITCHEN/MESS HALL FLOOR PLAN
T1-03	TELECOM ADMIN BUILDING FLOOR PLAN
T1-04	TELECOM RECREATION BUILDING FLOOR PLAN
T1-05	TELECOM SCHOOL BUILDING FLOOR PLAN
T1-06	TELECOM SCHOOL ANNEX FLOOR PLAN
T4-00	TELECOM ENLARGED PLANS AND RACK ELEVATIONS
TS-01	TELECOM DETAILS
T5-01	TECHNOLOGY PATHWAYS DIAGRAM
T5-02	TECHNOLOGY FIBER FIBER DIAGRAM

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CONSULTANT

Exante360
895 DOVE ST. 3RD FLOOR
NEWPORT BEACH, CA 92660
949.324.3547

ARCHITECTURAL

CONSULTANT

Baltimore, MD, 21227
High Voltage

BID SET

ISSUED BLOCK / HISTORY LOG

NO.	ISSUED	DATE
	PLAN CHECK	05/03/2024
	BID SET	11/11/2024

AGENCY APPLICATION NUMBER

UNC-MECH240510001771

AGENCY APPROVAL STAMP

PROJECT

LAC DPW AFFLERBAUGH PAIGE CAMP
CCTV SYSTEM
-

SHEET TITLE

SECURITY GENERAL INFORMATION AND SYMBOL LEGEND

HZ PROJ. NO.	R31608.04	LA DPW SPEC. NO.	7701
		PERMIT NO.	

SE0-00

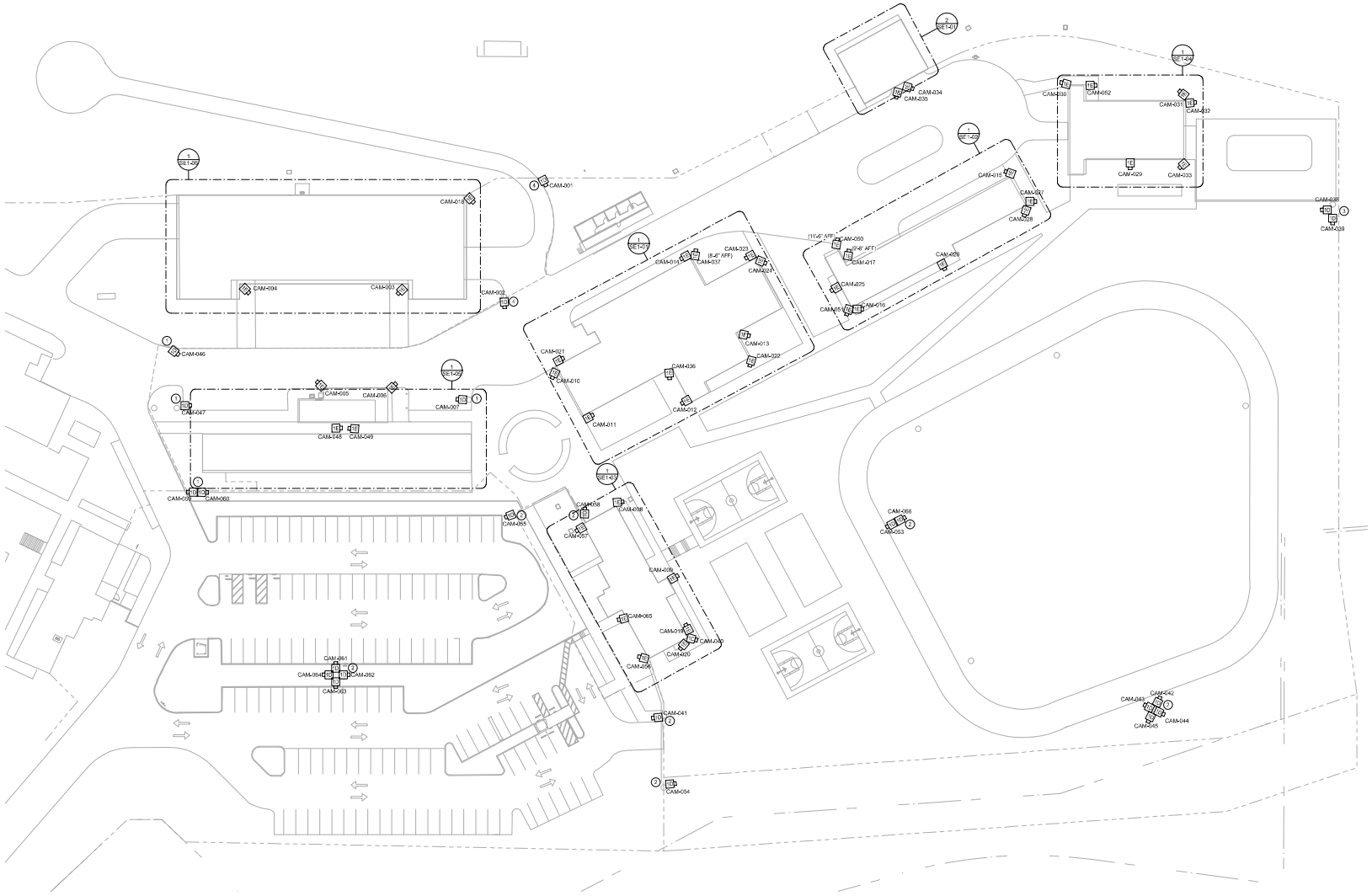
GENERAL NOTES:

A. REFER TO ENLARGED PLANS FOR CABLE TERMINATION LOCATIONS PER BUILDING U.O.N.

B. CONTRACTOR IS RESPONSIBLE FOR ALL TRENCHING PATHWAYS UNDERGROUND WHERE NECESSARY.

SHEET NOTES:

1. CAMERAS TO HOMERUN BACK TO POE SWITCH LOCATED WITHIN SOUTH SCHOOL MDF. MAX CABLE RUN SHALL NOT EXCEED 300 FEET AND 180 DEGREE OF BENDS BETWEEN PULL POINTS.
2. CAMERAS TO HOMERUN BACK TO POE SWITCH LOCATED WITHIN ADMIN BUILDING IDF. MAX CABLE RUN SHALL NOT EXCEED 300 FEET AND 180 DEGREE OF BENDS BETWEEN PULL POINTS.
3. CAMERAS TO HOMERUN BACK TO POE SWITCH LOCATED WITHIN THE GYM BUILDING IDF. MAX CABLE RUN SHALL NOT EXCEED 300 FEET AND 180 DEGREE OF BENDS BETWEEN PULL POINTS.
4. CAMERAS TO HOMERUN BACK TO POE SWITCH LOCATED WITHIN THE DORM BUILDING IDF. MAX CABLE RUN SHALL NOT EXCEED 300 FEET AND 180 DEGREE OF BENDS BETWEEN PULL POINTS.



1 SECURITY SITE PLAN
1" = 30'-0"

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CONSULTANT/SEAL

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High Voltage

BID SET

ISSUED BLOCK / HISTORY LOG

NO.	ISSUED	DATE
	PLAN CHECK	05/03/2024
	BID SET	11/11/2024

AGENCY APPLICATION NUMBER

UNC-MECH240510001771

AGENCY APPROVAL STAMP

PROJECT

LAC DPW AFFLERBAUGH PAIGE CAMP
CCTV SYSTEM
-

SHEET TITLE

SECURITY SITE PLAN

HZ PROJ. NO.	R311608.04	LA DPW SPEC. NO.	7701
		PERMIT NO.	

SE1-00

GENERAL NOTES:

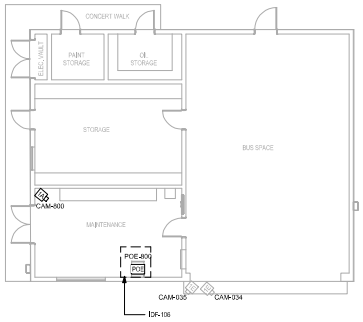
A. ALL CCTV SYSTEM CABLING SHALL TERMINATE TO (N) EQUIPMENT IN RESPECTIVE BUILDING IDF.

B. ALL CABLING SHALL BE WITHIN MIN. 3/4" CONDUIT. CONTRACTOR MAY COMBINE CONDUITS WHILE MAINTAINING MINIMUM 40% FILL RATIO.

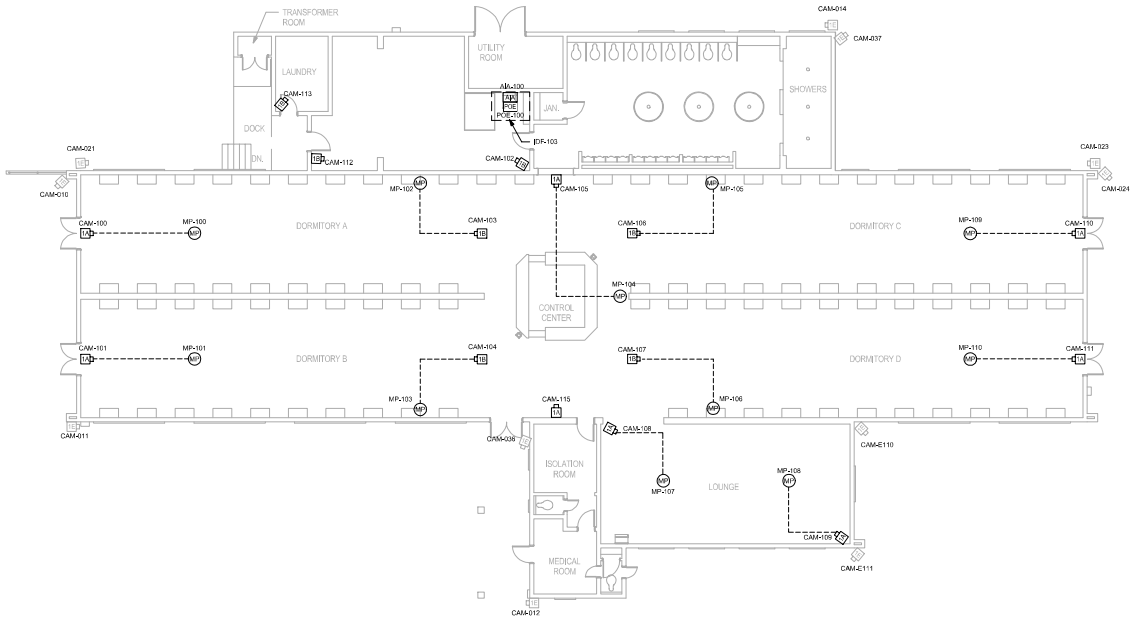
C. COORDINATE CEILING MOUNTED DEVICE LOCATIONS WITH ARCHITECT AND OTHER TRADES PRIOR TO ROUGH-IN.

LINE TYPE LEGEND

- - - - - - - REFER TO SINGLE LINE DIAGRAM 2/SE5-01 FOR WIRING BETWEEN MICROPHONES (MP), AUDIO INTERFACE ADAPTER (AIA) AND RELATED CAMERA



2 SECURITY MECHANICAL BUILDING FLOOR PLAN
1/4" = 1'-0"



1 SECURITY DORM FLOOR PLAN
1/8" = 1'-0"

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ARCHITECTURAL

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BICI
Baltimore, MD 21087
High Noon

BID SET

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NO.	ISSUED	DATE
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	BID SET	11/11/2024

AGENCY APPLICATION NUMBER
UNC-MECH240510001771

AGENCY APPROVAL STAMP

PROJECT
LAC DPW AFFLERBAUGH PAIGE CAMP CCTV SYSTEM
-

SHEET TITLE
SECURITY DORM AND MECHANICAL FLOOR PLAN

HZ PROJ. NO.	R31608.04	LA DPW SPEC. NO.	7701
		PERMIT NO.	

SE1-01

GENERAL NOTES:

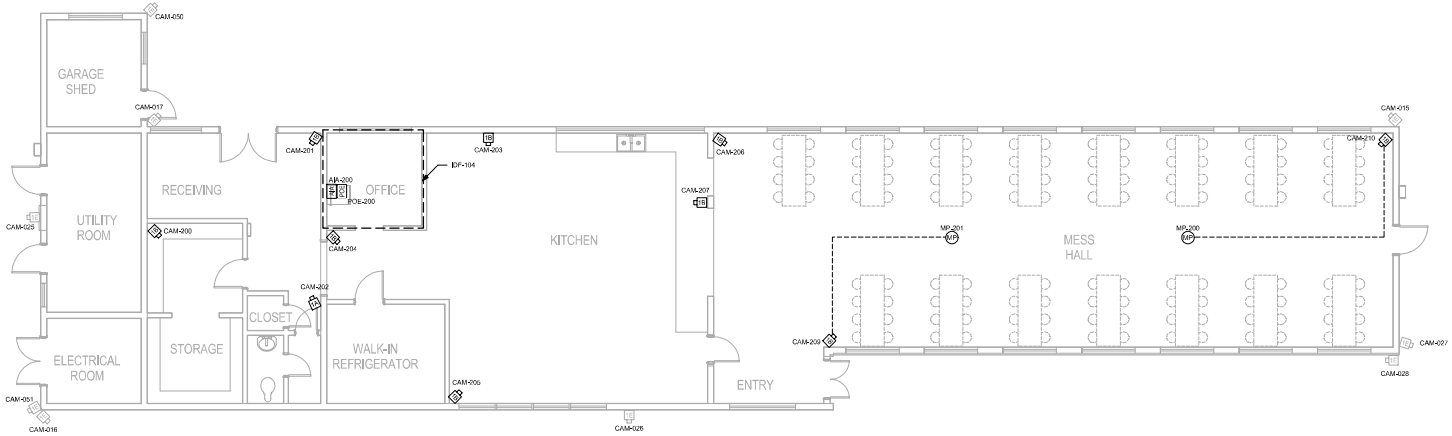
A. ALL CCTV SYSTEM CABLING SHALL TERMINATE TO (N) EQUIPMENT IN RESPECTIVE BUILDING IDF.

B. ALL CABLING SHALL BE WITHIN MIN. 3/4" CONDUIT. CONTRACTOR MAY COMBINE CONDUITS WHILE MAINTAINING MINIMUM 40% FILL RATIO.

C. COORDINATE CEILING MOUNTED DEVICE LOCATIONS WITH ARCHITECT AND OTHER TRADES PRIOR TO ROUGH-IN.

LINE TYPE LEGEND

- - - - - - - - - REFER TO SINGLE LINE DIAGRAM 2/SE6-01 FOR WIRING BETWEEN MICROPHONES (MP), AUDIO INTERFACE ADAPTER (AIA) AND RELATED CAMERA



1 SECURITY KITCHEN/MESS HALL FLOOR PLAN
3/16" = 1'-0"

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ARCHITECT SEAL

CONSULTANT SEAL

BICI
Bicycle Industry Consultants
Boyds, MD, 20841
High Rollers

BID SET

ISSUED BLOCK / HISTORY LOG

NO.	ISSUED	DATE
	PLAN CHECK	05/03/2024
	BID SET	11/11/2024

AGENCY APPLICATION NUMBER
UNC-MECH240510001771

AGENCY APPROVAL STAMP

PROJECT
LAC DPW AFFLERBAUGH PAIGE CAMP
CCTV SYSTEM
-

SHEET TITLE
SECURITY KITCHEN/MESS HALL FLOOR PLAN

HZ PROJ. NO.	R31608.04	LA DPW SPEC. NO.	7701
		PERMIT NO.	

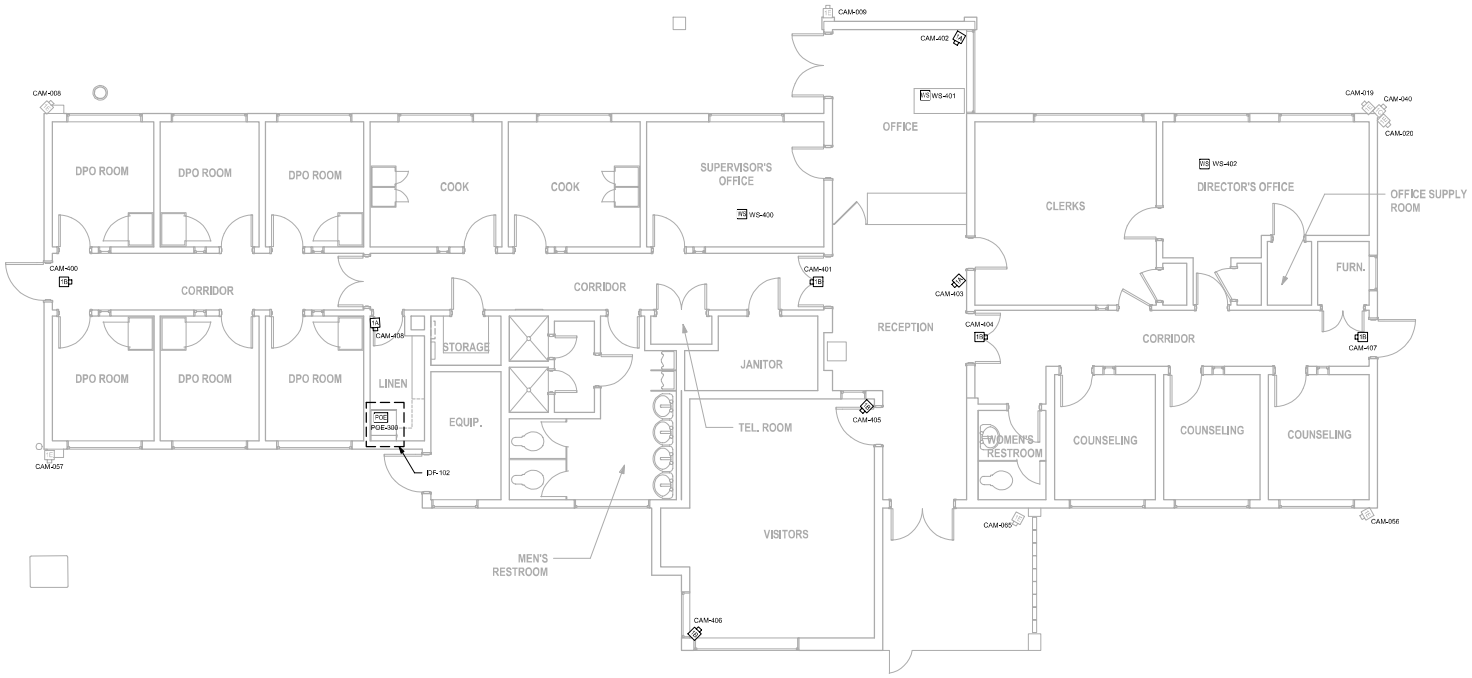
SE1-02

GENERAL NOTES:

A. ALL CCTV SYSTEM CABLING SHALL TERMINATE TO (N) EQUIPMENT IN RESPECTIVE BUILDING IDF.

B. ALL CABLING SHALL BE WITHIN MIN. 3/4" CONDUIT. CONTRACTOR MAY COMBINE CONDUITS WHILE MAINTAINING MINIMUM 40% FILL RATIO.

C. COORDINATE CEILING MOUNTED DEVICE LOCATIONS WITH ARCHITECT AND OTHER TRADES PRIOR TO ROUGH-IN.



1 SECURITY ADMIN BUILDING FLOOR PLAN
1/4" = 1'-0"

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ARCHITECT SEAL

CONSULTANT SEAL

BICI
Bicycle Consultants
Rockville, MD 20850
High Rollers

BID SET

ISSUED BLOCK / HISTORY LOG

NO.	ISSUED	DATE
	PLAN CHECK	05/03/2024
	BID SET	11/11/2024

AGENCY APPLICATION NUMBER
UNC-MECH240510001771

AGENCY APPROVAL STAMP

PROJECT
LAC DPW AFFLERBAUGH PAIGE CAMP
CCTV SYSTEM
-

SHEET TITLE
SECURITY ADMIN BUILDING
FLOOR PLAN

HZ PROJ. NO.	R31608.04	LA DPW SPEC. NO.	7701
		PERMIT NO.	

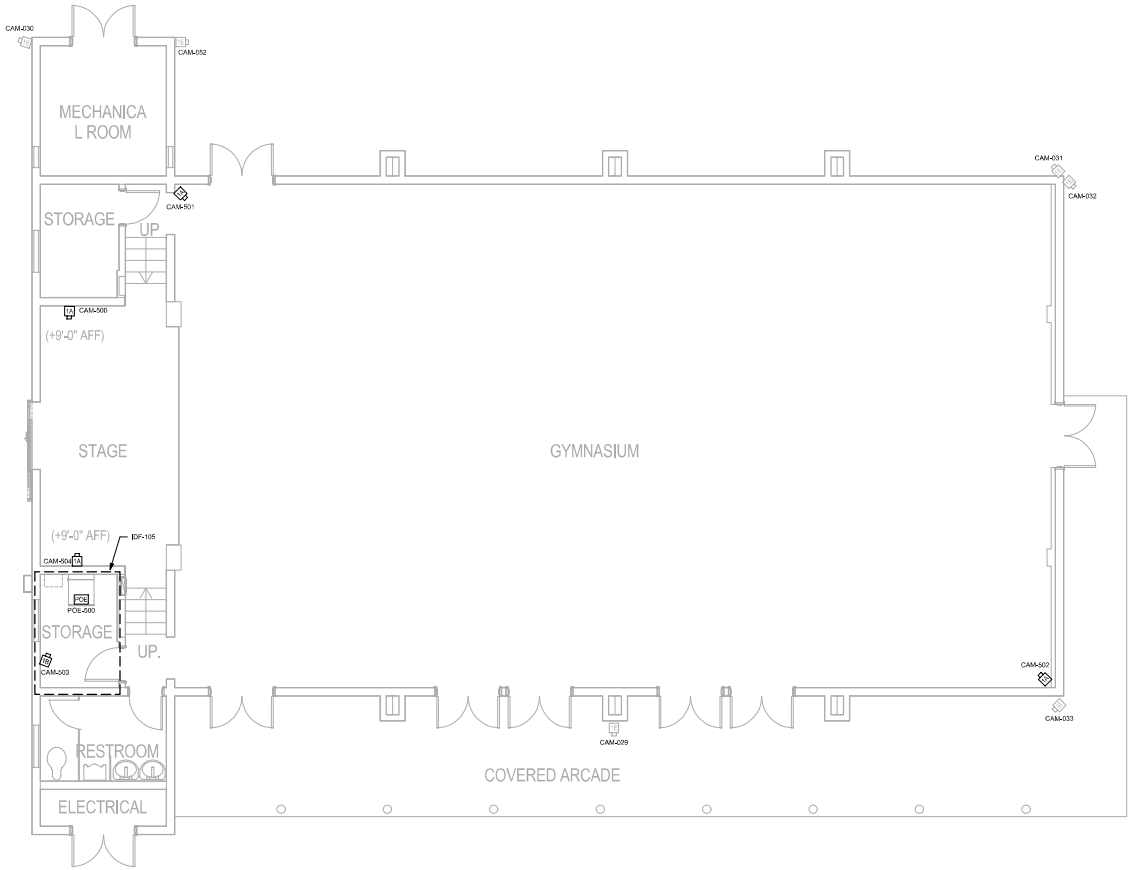
SE1-03

GENERAL NOTES:

A. ALL CCTV SYSTEM CABLING SHALL TERMINATE TO (N) EQUIPMENT IN RESPECTIVE BUILDING IDF.

B. ALL CABLING SHALL BE WITHIN MIN. 3/4" CONDUIT. CONTRACTOR MAY COMBINE CONDUITS WHILE MAINTAINING MINIMUM 40% FILL RATIO.

C. COORDINATE CEILING MOUNTED DEVICE LOCATIONS WITH ARCHITECT AND OTHER TRADES PRIOR TO ROUGH-IN.



1 SECURITY RECREATION BUILDING FLOOR PLAN
3/16" = 1'-0"

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ARCHITECT SEAL

CONSULTANT SEAL
Rockville, MD 20850
High Noon

BID SET

ISSUED BLOCK / HISTORY LOG

NO.	ISSUED	DATE
	PLAN CHECK	05/03/2024
	BID SET	11/11/2024

AGENCY APPLICATION NUMBER
UNC-MECH240510001771

AGENCY APPROVAL STAMP

PROJECT
LAC DPW AFFLERBAUGH PAIGE CAMP
CCTV SYSTEM
-

SHEET TITLE
SECURITY RECREATION BUILDING FLOOR PLAN

HZ PROJ. NO.	R31608.04	LA DPW SPEC. NO.	7701
		PERMIT NO.	

SE1-04

GENERAL NOTES:

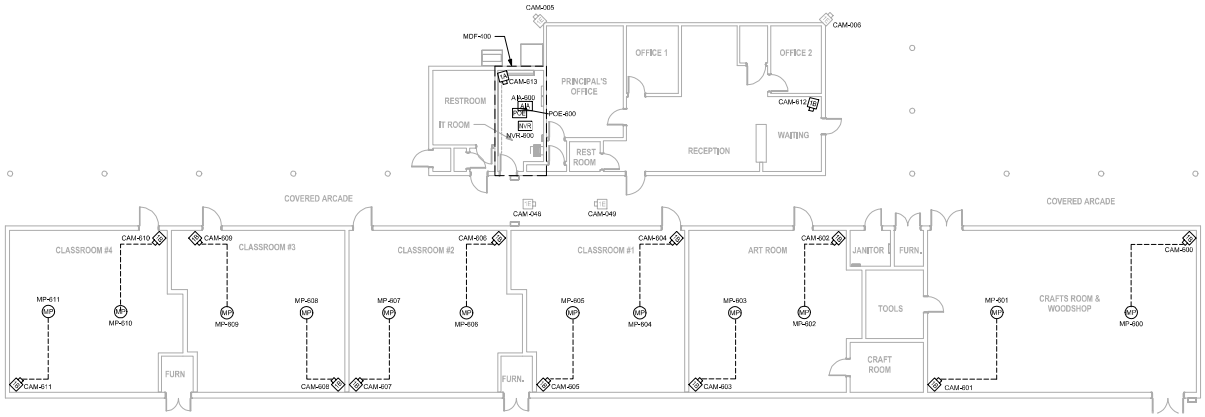
A. ALL CCTV SYSTEM CABLING SHALL TERMINATE TO (N) EQUIPMENT IN RESPECTIVE BUILDING IDF.

B. ALL CABLING SHALL BE WITHIN MIN. 3/4" CONDUIT. CONTRACTOR MAY COMBINE CONDUITS WHILE MAINTAINING MINIMUM 40% FILL RATIO.

C. COORDINATE CEILING MOUNTED DEVICE LOCATIONS WITH ARCHITECT AND OTHER TRADES PRIOR TO ROUGH-IN.

LINE TYPE LEGEND

- - - - - - - REFER TO SINGLE LINE DIAGRAM 2/SE5-01 FOR WIRING BETWEEN MICROPHONES (MP), AUDIO INTERFACE ADAPTER (AIA) AND RELATED CAMERA



1 SECURITY SCHOOL BUILDING FLOOR PLAN
1/8" = 1'-0"

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ARCHITECT SEAL

CONSULTANT SEAL
Bergin, Smith, Buckley Consulting Engineers
Hyattsville, MD 20782
High Voltage

BID SET

ISSUED BLOCK / HISTORY LOG

NO.	ISSUED	DATE
	PLAN CHECK	05/03/2024
	BID SET	11/11/2024

AGENCY APPLICATION NUMBER
UNC-MECH240510001771

AGENCY APPROVAL STAMP

PROJECT
LAC DPW AFFLERBAUGH PAIGE CAMP
CCTV SYSTEM
-

SHEET TITLE
SECURITY SCHOOL BUILDING FLOOR PLAN

HZ PROJ. NO. R31608.04 | LA DPW SPEC. NO. 7701
PERMIT NO.

SE1-05

GENERAL NOTES:

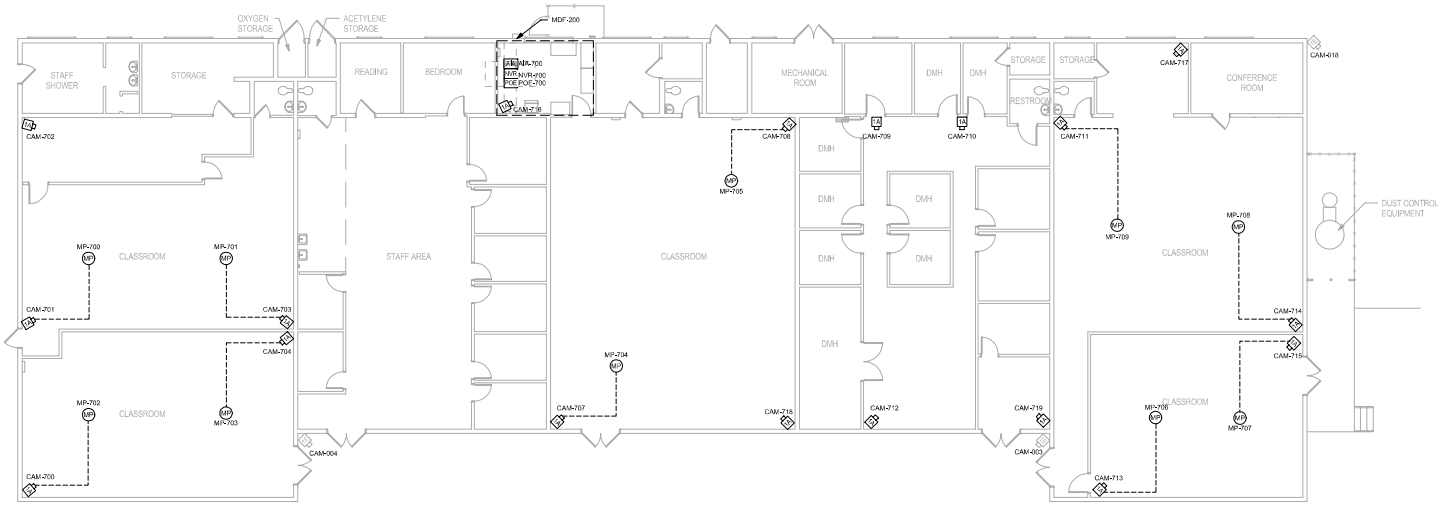
A. ALL CCTV SYSTEM CABLING SHALL TERMINATE TO (N) EQUIPMENT IN RESPECTIVE BUILDING IDF.

B. ALL CABLING SHALL BE WITHIN MIN. 3/4" CONDUIT. CONTRACTOR MAY COMBINE CONDUITS WHILE MAINTAINING MINIMUM 40% FILL RATIO.

C. COORDINATE CEILING MOUNTED DEVICE LOCATIONS WITH ARCHITECT AND OTHER TRADES PRIOR TO ROUGH-IN.

LINE TYPE LEGEND

- - - - - - - REFER TO SINGLE LINE DIAGRAM 2/SE6-01 FOR WIRING BETWEEN MICROPHONES (MP), AUDIO INTERFACE ADAPTER (AIA) AND RELATED CAMERA



1 SECURITY SCHOOL ANNEX BUILDING FLOOR PLAN
1/8" = 1'-0"

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ARCHITECT SEAL

CONSULTANT SEAL

BICI
Baltimore, MD 21087
High Rises

BID SET

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NO.	ISSUED	DATE
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	BID SET	11/11/2024

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UNC-MECH240510001771

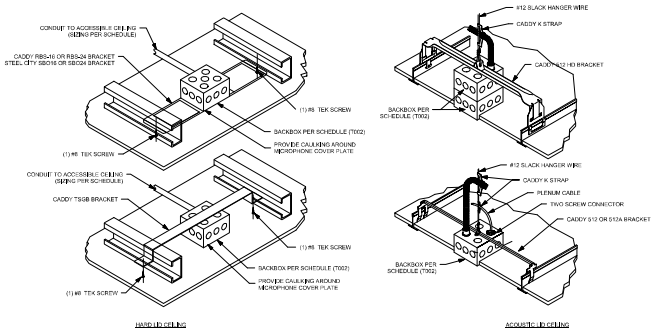
AGENCY APPROVAL STAMP

PROJECT
LAC DPW AFFLERBAUGH PAIGE CAMP
CCTV SYSTEM
-

SHEET TITLE
SECURITY SCHOOL ANNEX FLOOR PLAN

HZ PROJ. NO.	R31608.04	LA DPW SPEC. NO.	7701
		PERMIT NO.	

SE1-06



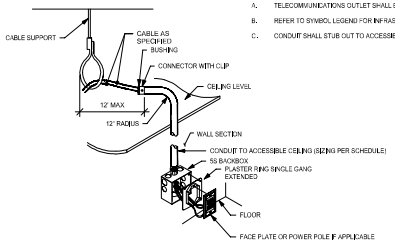
12 CEILING MOUNTED MICROPHONE
NTS

GENERAL NOTES:

A. TELECOMMUNICATIONS OUTLET SHALL BE INSTALLED 18" AFF U.O.N.

B. REFER TO SYMBOL LEGEND FOR INFRASTRUCTURE SIZING AND CABLE TYPE REQUIREMENTS.

C. CONDUIT SHALL STUB OUT TO ACCESSIBLE CEILING.

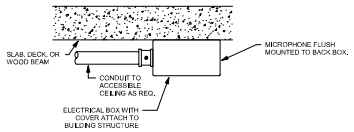


11 TYPICAL TELECOM RACEWAY AND OUTLET BOX
NTS

GENERAL NOTES:

A. REFER TO SYMBOL LEGEND FOR INFRASTRUCTURE SIZING AND CABLE TYPE REQUIREMENTS.

B. ANCHOR BACK BOX TO SURFACE WITH APPROPRIATE ANCHORS FOR CONSTRUCTION TYPE.

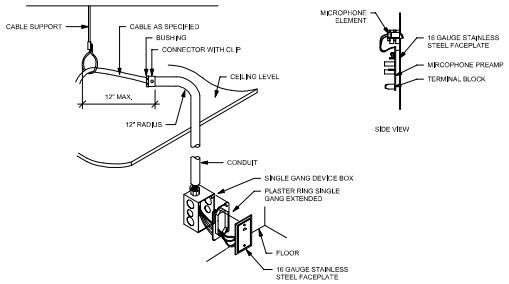


10 TYPICAL CEILING MICROPHONE - SURFACE MOUNT
NTS

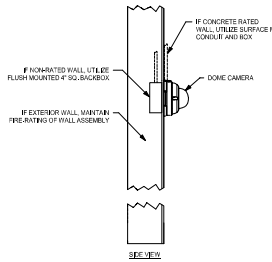
GENERAL NOTES:

A. MICROPHONE SHALL BE PLACED AT 7'-6" O.C. A.F.F. U.O.N.

B. CONDUIT SHALL STUB OUT TO ACCESSIBLE CEILING.



9 TYPICAL WALL MOUNTED MICROPHONE
NTS



GENERAL NOTES:

A. NETWORK CONNECTION TERMINATED TO RJ45 MALE CONNECTOR AND TERMINATED DIRECTLY TO THE CAMERA.

B. AT LOCATIONS WHERE THE CAMERA IS MOUNTED ON A WALL WITH INTERIOR BUILDING ACCESS IT IS ACCEPTABLE TO PROVIDE A CONDUIT PATH FROM THE TRAY INSIDE THE WALL TO THE BACK OF THE CAMERA WHERE THE WALL CAN BE CORED. ROUTE CABLE INTO THE CAMERA VIA THE REAR ACCESS HOLE.

C. ANCHORAGE:

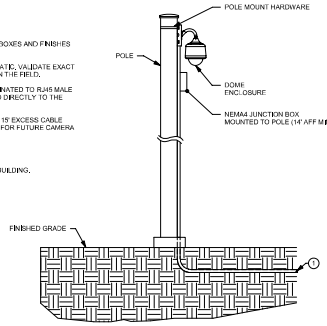
NON-RATED WALL: UTILIZE BACKBOX AND ANCHORED WITH #8 SCREWS.

CONCRETE RATED WALL: UTILIZE BACKBOX IS ANCHORED WITH 3/8" HILTI TZ EXPANSION ANCHOR WITH 2" EMBED (MIN.).

D. REFER TO SYMBOL LEGEND FOR INFRASTRUCTURE SIZING AND CABLE TYPE REQUIREMENTS.

E. CONTRACTOR SHALL PROVIDE 15' EXCESS CABLE COILED AT CAMERA LOCATION FOR FUTURE CAMERA FLEXIBILITY.

8 CAMERA MOUNTED ON WALL
NTS



7 POLE MOUNT GOOSENECK
NTS

GENERAL NOTES:

A. ENCLOSURES, FITTINGS, BACKBOXES AND FINISHES SHALL BE WEATHERPROOF.

B. MOUNTING DETAIL IS DIAGRAMATIC, VALIDATE EXACT MOUNTING CONDITIONS WITHIN THE FIELD.

C. NETWORK CONNECTION TERMINATED TO RJ45 MALE CONNECTOR AND TERMINATED DIRECTLY TO THE AMERA.

D. CONTRACTOR SHALL PROVIDE 15' EXCESS CABLE COILED AT CAMERA LOCATION FOR FUTURE CAMERA FLEXIBILITY.

NOTES TO DETAIL:

1. (N) 1-1/2" SIGNAL CONDUIT TO BUILDING.

GENERAL NOTES:

A. PROVIDE WEATHER PROOF ENCLOSURE, FITTING, BACKBOX, CONDUIT, AND FINISHES.

B. MOUNTING DETAIL IS DIAGRAMATIC, VALIDATE EXACT MOUNTING CONDITIONS WITHIN THE FIELD.

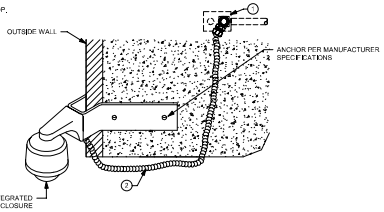
C. NETWORK CONNECTION TERMINATED TO RJ45 MALE CONNECTOR AND TERMINATED DIRECTLY TO THE CAMERA.

D. CONTRACTOR SHALL PROVIDE 15' EXCESS CABLE COILED AT CAMERA LOCATION FOR FUTURE CAMERA FLEXIBILITY.

NOTES TO DETAIL:

1. PROVIDE BOX WITH COVERPLATE RATED FOR ENVIRONMENT. PROVIDE ACCESS THROUGH COVERPLATE SURFACE MOUNT BOX AND SECURE FLEXIBLE LIQUID TIGHT CONDUIT.

2. PROVIDE DRIP LOOP.



6 EXTERIOR CORNER MOUNTED CAMERA
NTS

GENERAL NOTES

A. REFER TO SYMBOL LEGEND FOR INFRASTRUCTURE SIZING AND CABLE TYPE REQUIREMENTS.

B. PROVIDE CORNER MOUNT ADAPTERS WHERE APPLICABLE.

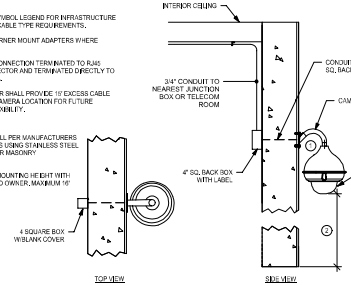
C. NETWORK CONNECTION TERMINATED TO RJ45 MALE CONNECTOR AND TERMINATED DIRECTLY TO THE CAMERA.

D. CONTRACTOR SHALL PROVIDE 15' EXCESS CABLE COILED AT CAMERA LOCATION FOR FUTURE CAMERA FLEXIBILITY.

NOTES TO DETAIL:

1. ATTACH TO WALL PER MANUFACTURERS REQUIREMENTS USING STAINLESS STEEL HARDWARE FOR MASONRY APPLICATIONS.

2. COORDINATE MOUNTING HEIGHT WITH ARCHITECT AND OWNER. MAXIMUM 18" AFG.



5 CAMERA - EXTERIOR WALL MOUNT
NTS

GENERAL NOTES:

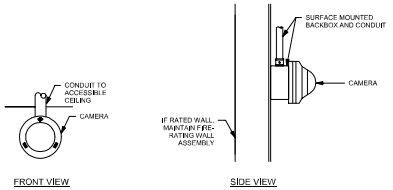
A. REFER TO SYMBOL LEGEND FOR INFRASTRUCTURE SIZING AND CABLE TYPE REQUIREMENTS.

B. NETWORK CONNECTION TERMINATED TO RJ45 MALE CONNECTOR AND TERMINATED DIRECTLY TO THE CAMERA.

C. CONTRACTOR SHALL PROVIDE 15' EXCESS CABLE COILED AT CAMERA LOCATION FOR FUTURE CAMERA FLEXIBILITY.

DRY WALL : INSTALL BACKBOX AND ENSURE BACKBOX IS ANCHORED WITH #8 SCREWS.

CONCRETE RATED WALL : INSTALL BACKBOX AND ENSURE BACKBOX IS ANCHORED WITH 3/8" HILTI TZ EXPANSION ANCHOR WITH 2" EMBED (MIN.).



4 SURFACE/WALL MOUNTED CAMERA
NTS

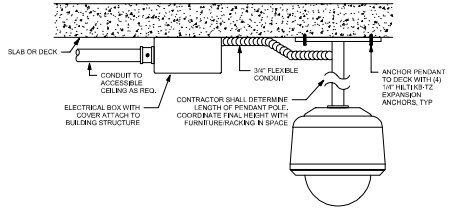
GENERAL NOTES:

A. REFER TO SYMBOL LEGEND FOR INFRASTRUCTURE SIZING AND CABLE TYPE REQUIREMENTS.

B. CONTRACTOR SHALL FIELD COORDINATE PENDANT MOUNT LENGTH WITH OWNER PRIOR TO ROUGH-IN TO ENSURE UNOBSTRUCTED FIELD OF VIEW.

C. NETWORK CONNECTION TERMINATED TO RJ45 MALE CONNECTOR AND TERMINATED DIRECTLY TO THE CAMERA.

D. CONTRACTOR SHALL PROVIDE 15' EXCESS CABLE COILED AT CAMERA LOCATION FOR FUTURE CAMERA FLEXIBILITY.



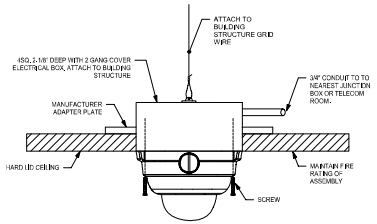
3 PENDANT MOUNTED CAMERA
NTS

GENERAL NOTES:

A. REFER TO SYMBOL LEGEND FOR INFRASTRUCTURE SIZING AND CABLE TYPE REQUIREMENTS.

B. NETWORK CONNECTION TERMINATED TO RJ45 MALE CONNECTOR AND TERMINATED DIRECTLY TO THE CAMERA.

C. CONTRACTOR SHALL PROVIDE 15' EXCESS CABLE COILED AT CAMERA LOCATION FOR FUTURE CAMERA FLEXIBILITY.



2 CAMERA - HARD LID CEILING MOUNT
NTS

GENERAL NOTES:

A. REFER TO SYMBOL LEGEND FOR INFRASTRUCTURE SIZING AND CABLE TYPE REQUIREMENTS.

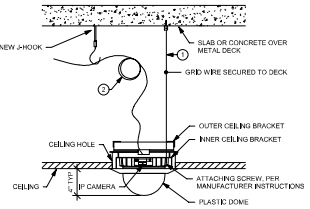
B. NETWORK CONNECTION TERMINATED TO RJ45 MALE CONNECTOR AND TERMINATED DIRECTLY TO THE CAMEA.

C. CONTRACTOR SHALL PROVIDE 15' EXCESS CABLE COILED AT CAMERA LOCATION FOR FUTURE CAMERA FLEXIBILITY.

NOTES TO DETAIL:

1. SECURE CEILING SUPPORT WIRE AND CAMERA TO STRUCTURAL DECK WITH MANUFACTURER SUPPLIED SAFETY WIRE OR 12GA. CEILING WIRE

2. CATAGORY CABLE, W/ MIN. 6-0" SERVICE LOOP TERMINATED TO RJ45. ATTACH SERVICE LOOP TO J-HOOK.



1 CEILING MOUNTED CAMERA - ACOUSTIC TILE
NTS

HUITT ZOLLARS
555 W. Fifth Street Suite 2950 | Los Angeles, CA 90013 USA
Phone 310.820.4800 | Fax 310.207.4215
www.huitt-zollars.com

LA COUNTY DEPARTMENT OF PUBLIC WORKS

900 SOUTH FREMONT AVENUE
ALHAMBRA, CA 91803
TEL: 626.458.5100

CONSULTANT
Exante360
895 DOVE ST. 3RD FLOOR
NEWPORT BEACH, CA 92660
949.324.3547

ASSIGNED TO:

CONSULTANT SEAL
Bethesda, MD 20817
High Noon

BID SET

ISSUED BLOCK / HISTORY LOG

NO.	ISSUED	DATE
	PLAN CHECK	05/03/2024
	BID SET	11/11/2024

AGENCY APPLICATION NUMBER
UNC-MECH240510001771

AGENCY APPROVAL STAMP

PROJECT
LAC DPW AFFLERBAUGH PAIGE CAMP
CCTV SYSTEM
-

SHEET TITLE
SECURITY DETAILS

HZ PROJ. NO.	R31608.04	LA DPW SPEC. NO.	7701
		PERMIT NO.	

SE5-01

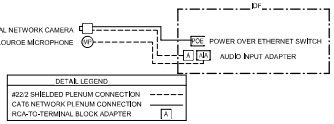
DEVICE SCHEDULE

DEVICE ID	DESCRIPTION	DETAIL	MOUNTING/HEIGHT	CABLE TYPE	LOCATION
CAM-008	EXTERIOR FIXED LENS CAMERA - WALL MOUNTED	5-SE5-01	WALL 12' A.G.L. U.O.N.	(1) CAT6 PLENUM TO IDF/MDF	ADMIN BLDG. 4388
CAM-009	EXTERIOR FIXED LENS CAMERA - WALL MOUNTED	5-SE5-01	WALL 12' A.G.L. U.O.N.	(1) CAT6 PLENUM TO IDF/MDF	ADMIN BLDG. 4388
CAM-019	EXTERIOR FIXED LENS CAMERA - WALL MOUNTED	5-SE5-01	WALL 12' A.G.L. U.O.N.	(1) CAT6 PLENUM TO IDF/MDF	ADMIN BLDG. 4388
CAM-020	EXTERIOR FIXED LENS CAMERA - WALL MOUNTED	5-SE5-01	WALL 12' A.G.L. U.O.N.	(1) CAT6 PLENUM TO IDF/MDF	ADMIN BLDG. 4388
CAM-040	EXTERIOR FIXED LENS CAMERA - CORNER MOUNTED	6-SE5-01	WALL 12' A.G.L. U.O.N.	(1) CAT6 PLENUM TO IDF/MDF	ADMIN BLDG. 4388
CAM-056	EXTERIOR FIXED LENS CAMERA - WALL MOUNTED	5-SE5-01	WALL 12' A.G.L. U.O.N.	(1) CAT6 PLENUM TO IDF/MDF	ADMIN BLDG. 4388
CAM-057	EXTERIOR FIXED LENS CAMERA - WALL MOUNTED	5-SE5-01	WALL 12' A.G.L. U.O.N.	(1) CAT6 PLENUM TO IDF/MDF	ADMIN BLDG. 4388
CAM-058	EXTERIOR FIXED LENS CAMERA - WALL MOUNTED	5-SE5-01	WALL 12' A.G.L. U.O.N.	(1) CAT6 PLENUM TO IDF/MDF	ADMIN BLDG. 4388
CAM-400	INTERIOR FIXED LENS CAMERA - CEILING MOUNTED	SEE SCHEDULE	CEILING	(1) CAT6 PLENUM TO IDF/MDF	ADMIN BLDG. 4388
CAM-401	INTERIOR FIXED LENS CAMERA - CEILING MOUNTED	SEE SCHEDULE	CEILING	(1) CAT6 PLENUM TO IDF/MDF	ADMIN BLDG. 4388
CAM-402	INTERIOR FIXED LENS CAMERA - WALL MOUNTED	SEE SCHEDULE	WALL 6' B.F.C. U.O.N.	(1) CAT6 PLENUM TO IDF/MDF	ADMIN BLDG. 4388
CAM-403	INTERIOR FIXED LENS CAMERA - WALL MOUNTED	SEE SCHEDULE	WALL 6' B.F.C. U.O.N.	(1) CAT6 PLENUM TO IDF/MDF	ADMIN BLDG. 4388
CAM-404	INTERIOR FIXED LENS CAMERA - CEILING MOUNTED	SEE SCHEDULE	CEILING	(1) CAT6 PLENUM TO IDF/MDF	ADMIN BLDG. 4388
CAM-405	INTERIOR FIXED LENS CAMERA - CEILING MOUNTED	SEE SCHEDULE	CEILING	(1) CAT6 PLENUM TO IDF/MDF	ADMIN BLDG. 4388
CAM-406	INTERIOR FIXED LENS CAMERA - CEILING MOUNTED	SEE SCHEDULE	CEILING	(1) CAT6 PLENUM TO IDF/MDF	ADMIN BLDG. 4388
CAM-407	INTERIOR FIXED LENS CAMERA - CEILING MOUNTED	SEE SCHEDULE	CEILING	(1) CAT6 PLENUM TO IDF/MDF	ADMIN BLDG. 4388
CAM-408	INTERIOR FIXED LENS CAMERA - WALL MOUNTED	SEE SCHEDULE	WALL 6' B.F.C. U.O.N.	(1) CAT6 PLENUM TO IDF/MDF	ADMIN BLDG. 4388
POE-300	POWER OVER ETHERNET SWITCH	N/R	RACK MOUNTED	(1) CAT6 PLENUM TO IDF/MDF	ADMIN BLDG. 4388
WS-100	WORKSTATION	N/R	DESK MOUNTED	(1) CAT6 PLENUM TO IDF/MDF	ADMIN BLDG. 4388
WS-101	WORKSTATION	N/R	DESK MOUNTED	(1) CAT6 PLENUM TO IDF/MDF	ADMIN BLDG. 4388
WS-102	WORKSTATION	N/R	DESK MOUNTED	(1) CAT6 PLENUM TO IDF/MDF	ADMIN BLDG. 4388
AIA-700	AUDIO INTERFACE ADAPTER	N/R	RACK MOUNTED	(1) 22/2 SHIELDED PLENUM TO IDF/MDF	ANNEX 3179
CAM-003	EXTERIOR FIXED LENS CAMERA - WALL MOUNTED	5-SE5-01	WALL 12' A.G.L. U.O.N.	(1) CAT6 PLENUM TO IDF/MDF	ANNEX 3179
CAM-004	EXTERIOR FIXED LENS CAMERA - WALL MOUNTED	5-SE5-01	WALL 12' A.G.L. U.O.N.	(1) CAT6 PLENUM TO IDF/MDF	ANNEX 3179
CAM-018	EXTERIOR FIXED LENS CAMERA - WALL MOUNTED	5-SE5-01	WALL 12' A.G.L. U.O.N.	(1) CAT6 PLENUM TO IDF/MDF	ANNEX 3179
CAM-700	INTERIOR FIXED LENS CAMERA - WALL MOUNTED	SEE SCHEDULE	WALL 6' B.F.C. U.O.N.	(1) CAT6 PLENUM TO IDF/MDF	ANNEX 3179
CAM-701	INTERIOR FIXED LENS CAMERA - WALL MOUNTED	SEE SCHEDULE	WALL 6' B.F.C. U.O.N.	(1) CAT6 PLENUM TO IDF/MDF	ANNEX 3179
CAM-702	INTERIOR FIXED LENS CAMERA - WALL MOUNTED	SEE SCHEDULE	WALL 6' B.F.C. U.O.N.	(1) CAT6 PLENUM TO IDF/MDF	ANNEX 3179
CAM-703	INTERIOR FIXED LENS CAMERA - WALL MOUNTED	SEE SCHEDULE	WALL 6' B.F.C. U.O.N.	(1) CAT6 PLENUM TO IDF/MDF	ANNEX 3179
CAM-704	INTERIOR FIXED LENS CAMERA - WALL MOUNTED	SEE SCHEDULE	WALL 6' B.F.C. U.O.N.	(1) CAT6 PLENUM TO IDF/MDF	ANNEX 3179
CAM-707	INTERIOR FIXED LENS CAMERA - WALL MOUNTED	SEE SCHEDULE	WALL 6' B.F.C. U.O.N.	(1) CAT6 PLENUM TO IDF/MDF	ANNEX 3179
CAM-708	INTERIOR FIXED LENS CAMERA - WALL MOUNTED	SEE SCHEDULE	WALL 6' B.F.C. U.O.N.	(1) CAT6 PLENUM TO IDF/MDF	ANNEX 3179
CAM-709	INTERIOR FIXED LENS CAMERA - WALL MOUNTED	SEE SCHEDULE	WALL 6' B.F.C. U.O.N.	(1) CAT6 PLENUM TO IDF/MDF	ANNEX 3179
CAM-710	INTERIOR FIXED LENS CAMERA - WALL MOUNTED	SEE SCHEDULE	WALL 6' B.F.C. U.O.N.	(1) CAT6 PLENUM TO IDF/MDF	ANNEX 3179
CAM-711	INTERIOR FIXED LENS CAMERA - WALL MOUNTED	SEE SCHEDULE	WALL 6' B.F.C. U.O.N.	(1) CAT6 PLENUM TO IDF/MDF	ANNEX 3179
CAM-712	INTERIOR FIXED LENS CAMERA - WALL MOUNTED	SEE SCHEDULE	WALL 6' B.F.C. U.O.N.	(1) CAT6 PLENUM TO IDF/MDF	ANNEX 3179
CAM-713	INTERIOR FIXED LENS CAMERA - WALL MOUNTED	SEE SCHEDULE	WALL 6' B.F.C. U.O.N.	(1) CAT6 PLENUM TO IDF/MDF	ANNEX 3179
CAM-714	INTERIOR FIXED LENS CAMERA - WALL MOUNTED	SEE SCHEDULE	WALL 6' B.F.C. U.O.N.	(1) CAT6 PLENUM TO IDF/MDF	ANNEX 3179
CAM-715	INTERIOR FIXED LENS CAMERA - WALL MOUNTED	SEE SCHEDULE	WALL 6' B.F.C. U.O.N.	(1) CAT6 PLENUM TO IDF/MDF	ANNEX 3179
CAM-716	INTERIOR FIXED LENS CAMERA - WALL MOUNTED	SEE SCHEDULE	WALL 6' B.F.C. U.O.N.	(1) CAT6 PLENUM TO IDF/MDF	ANNEX 3179
CAM-717	INTERIOR FIXED LENS CAMERA - WALL MOUNTED	SEE SCHEDULE	WALL 6' B.F.C. U.O.N.	(1) CAT6 PLENUM TO IDF/MDF	ANNEX 3179
CAM-718	INTERIOR FIXED LENS CAMERA - WALL MOUNTED	SEE SCHEDULE	WALL 6' B.F.C. U.O.N.	(1) CAT6 PLENUM TO IDF/MDF	ANNEX 3179
CAM-719	INTERIOR FIXED LENS CAMERA - WALL MOUNTED	SEE SCHEDULE	WALL 6' B.F.C. U.O.N.	(1) CAT6 PLENUM TO IDF/MDF	ANNEX 3179
NVR-700	NETWORK VIDEO RECORDER	N/R	RACK MOUNTED	(1) CAT6 PLENUM TO IDF/MDF	ANNEX 3179
POE-700	POWER OVER ETHERNET SWITCH	N/R	RACK MOUNTED	(1) CAT6 PLENUM TO IDF/MDF	ANNEX 3179
AIA-600	AUDIO INTERFACE ADAPTER	N/R	RACK MOUNTED	(1) 22/2 SHIELDED PLENUM TO IDF/MDF	BLDG. "D" 4394
CAM-005	EXTERIOR FIXED LENS CAMERA - WALL MOUNTED	5-SE5-01	WALL 12' A.G.L. U.O.N.	(1) CAT6 PLENUM TO IDF/MDF	BLDG. "D" 4394
CAM-006	EXTERIOR FIXED LENS CAMERA - WALL MOUNTED	5-SE5-01	WALL 12' A.G.L. U.O.N.	(1) CAT6 PLENUM TO IDF/MDF	BLDG. "D" 4394
CAM-007	EXTERIOR FIXED LENS CAMERA - POLE MOUNTED	7-SE5-01	POLE 14' A.G.L. U.O.N.	(1) CAT6 PLENUM TO IDF/MDF	BLDG. "D" 4394
CAM-048	EXTERIOR FIXED LENS CAMERA - WALL MOUNTED	5-SE5-01	WALL 12' A.G.L. U.O.N.	(1) CAT6 PLENUM TO IDF/MDF	BLDG. "D" 4394
CAM-049	EXTERIOR FIXED LENS CAMERA - WALL MOUNTED	5-SE5-01	WALL 12' A.G.L. U.O.N.	(1) CAT6 PLENUM TO IDF/MDF	BLDG. "D" 4394
CAM-600	INTERIOR FIXED LENS CAMERA - CEILING MOUNTED	SEE SCHEDULE	CEILING	(1) CAT6 PLENUM TO IDF/MDF	BLDG. "D" 4394
CAM-601	INTERIOR FIXED LENS CAMERA - CEILING MOUNTED	SEE SCHEDULE	CEILING	(1) CAT6 PLENUM TO IDF/MDF	BLDG. "D" 4394
CAM-602	INTERIOR FIXED LENS CAMERA - CEILING MOUNTED	SEE SCHEDULE	CEILING	(1) CAT6 PLENUM TO IDF/MDF	BLDG. "D" 4394
CAM-603	INTERIOR FIXED LENS CAMERA - CEILING MOUNTED	SEE SCHEDULE	CEILING	(1) CAT6 PLENUM TO IDF/MDF	BLDG. "D" 4394
CAM-604	INTERIOR FIXED LENS CAMERA - CEILING MOUNTED	SEE SCHEDULE	CEILING	(1) CAT6 PLENUM TO IDF/MDF	BLDG. "D" 4394
CAM-605	INTERIOR FIXED LENS CAMERA - CEILING MOUNTED	SEE SCHEDULE	CEILING	(1) CAT6 PLENUM TO IDF/MDF	BLDG. "D" 4394
CAM-606	INTERIOR FIXED LENS CAMERA - CEILING MOUNTED	SEE SCHEDULE	CEILING	(1) CAT6 PLENUM TO IDF/MDF	BLDG. "D" 4394
CAM-607	INTERIOR FIXED LENS CAMERA - CEILING MOUNTED	SEE SCHEDULE	CEILING	(1) CAT6 PLENUM TO IDF/MDF	BLDG. "D" 4394
CAM-608	INTERIOR FIXED LENS CAMERA - CEILING MOUNTED	SEE SCHEDULE	CEILING	(1) CAT6 PLENUM TO IDF/MDF	BLDG. "D" 4394
CAM-609	INTERIOR FIXED LENS CAMERA - CEILING MOUNTED	SEE SCHEDULE	CEILING	(1) CAT6 PLENUM TO IDF/MDF	BLDG. "D" 4394
CAM-610	INTERIOR FIXED LENS CAMERA - CEILING MOUNTED	SEE SCHEDULE	CEILING	(1) CAT6 PLENUM TO IDF/MDF	BLDG. "D" 4394
CAM-611	INTERIOR FIXED LENS CAMERA - CEILING MOUNTED	SEE SCHEDULE	CEILING	(1) CAT6 PLENUM TO IDF/MDF	BLDG. "D" 4394
CAM-612	INTERIOR FIXED LENS CAMERA - CEILING MOUNTED	SEE SCHEDULE	CEILING	(1) CAT6 PLENUM TO IDF/MDF	BLDG. "D" 4394
CAM-613	INTERIOR FIXED LENS CAMERA - WALL MOUNTED	SEE SCHEDULE	WALL 6' B.F.C. U.O.N.	(1) CAT6 PLENUM TO IDF/MDF	BLDG. "D" 4394
NVR-600	NETWORK VIDEO RECORDER	N/R	RACK MOUNTED	(1) CAT6 PLENUM TO IDF/MDF	BLDG. "D" 4394
POE-600	POWER OVER ETHERNET SWITCH	N/R	RACK MOUNTED	(1) CAT6 PLENUM TO IDF/MDF	BLDG. "D" 4394
AIA-100	AUDIO INTERFACE ADAPTER	N/R	RACK MOUNTED	(1) 22/2 SHIELDED PLENUM TO IDF/MDF	DORM 4389
CAM-010	EXTERIOR FIXED LENS CAMERA - WALL MOUNTED	5-SE5-01	WALL 12' A.G.L. U.O.N.	(1) CAT6 PLENUM TO IDF/MDF	DORM 4389
CAM-011	EXTERIOR FIXED LENS CAMERA - WALL MOUNTED	5-SE5-01	WALL 12' A.G.L. U.O.N.	(1) CAT6 PLENUM TO IDF/MDF	DORM 4389
CAM-012	EXTERIOR FIXED LENS CAMERA - WALL MOUNTED	5-SE5-01	WALL 12' A.G.L. U.O.N.	(1) CAT6 PLENUM TO IDF/MDF	DORM 4389
CAM-013	EXTERIOR FIXED LENS CAMERA - WALL MOUNTED	5-SE5-01	WALL 12' A.G.L. U.O.N.	(1) CAT6 PLENUM TO IDF/MDF	DORM 4389
CAM-014	EXTERIOR FIXED LENS CAMERA - WALL MOUNTED	5-SE5-01	WALL 12' A.G.L. U.O.N.	(1) CAT6 PLENUM TO IDF/MDF	DORM 4389
CAM-021	EXTERIOR FIXED LENS CAMERA - WALL MOUNTED	5-SE5-01	WALL 12' A.G.L. U.O.N.	(1) CAT6 PLENUM TO IDF/MDF	DORM 4389
CAM-022	EXTERIOR FIXED LENS CAMERA - WALL MOUNTED	5-SE5-01	WALL 12' A.G.L. U.O.N.	(1) CAT6 PLENUM TO IDF/MDF	DORM 4389
CAM-023	EXTERIOR FIXED LENS CAMERA - WALL MOUNTED	5-SE5-01	WALL 12' A.G.L. U.O.N.	(1) CAT6 PLENUM TO IDF/MDF	DORM 4389
CAM-024	EXTERIOR FIXED LENS CAMERA - WALL MOUNTED	5-SE5-01	WALL 12' A.G.L. U.O.N.	(1) CAT6 PLENUM TO IDF/MDF	DORM 4389
CAM-036	EXTERIOR FIXED LENS CAMERA - WALL MOUNTED	5-SE5-01	WALL 12' A.G.L. U.O.N.	(1) CAT6 PLENUM TO IDF/MDF	DORM 4389
CAM-037	EXTERIOR FIXED LENS CAMERA - WALL MOUNTED	5-SE5-01	WALL 12' A.G.L. U.O.N.	(1) CAT6 PLENUM TO IDF/MDF	DORM 4389
CAM-100	INTERIOR FIXED LENS CAMERA - WALL MOUNTED	SEE SCHEDULE	WALL 6' B.F.C. U.O.N.	(1) CAT6 PLENUM TO IDF/MDF	DORM 4389
CAM-101	INTERIOR FIXED LENS CAMERA - WALL MOUNTED	SEE SCHEDULE	WALL 6' B.F.C. U.O.N.	(1) CAT6 PLENUM TO IDF/MDF	DORM 4389
CAM-102	INTERIOR FIXED LENS CAMERA - CEILING MOUNTED	SEE SCHEDULE	CEILING	(1) CAT6 PLENUM TO IDF/MDF	DORM 4389
CAM-103	INTERIOR FIXED LENS CAMERA - CEILING MOUNTED	SEE SCHEDULE	CEILING	(1) CAT6 PLENUM TO IDF/MDF	DORM 4389
CAM-104	INTERIOR FIXED LENS CAMERA - CEILING MOUNTED	SEE SCHEDULE	CEILING	(1) CAT6 PLENUM TO IDF/MDF	DORM 4389
CAM-105	INTERIOR FIXED LENS CAMERA - WALL MOUNTED	SEE SCHEDULE	WALL 6' B.F.C. U.O.N.	(1) CAT6 PLENUM TO IDF/MDF	DORM 4389
CAM-106	INTERIOR FIXED LENS CAMERA - CEILING MOUNTED	SEE SCHEDULE	CEILING	(1) CAT6 PLENUM TO IDF/MDF	DORM 4389
CAM-107	INTERIOR FIXED LENS CAMERA - CEILING MOUNTED	SEE SCHEDULE	CEILING	(1) CAT6 PLENUM TO IDF/MDF	DORM 4389
CAM-108	INTERIOR FIXED LENS CAMERA - WALL MOUNTED	SEE SCHEDULE	WALL 6' B.F.C. U.O.N.	(1) CAT6 PLENUM TO IDF/MDF	DORM 4389
CAM-109	INTERIOR FIXED LENS CAMERA - WALL MOUNTED	SEE SCHEDULE	WALL 6' B.F.C. U.O.N.	(1) CAT6 PLENUM TO IDF/MDF	DORM 4389
CAM-110	INTERIOR FIXED LENS CAMERA - WALL MOUNTED	SEE SCHEDULE	WALL 6' B.F.C. U.O.N.	(1) CAT6 PLENUM TO IDF/MDF	DORM 4389
CAM-111	INTERIOR FIXED LENS CAMERA - WALL MOUNTED	SEE SCHEDULE	WALL 6' B.F.C. U.O.N.	(1) CAT6 PLENUM TO IDF/MDF	DORM 4389
CAM-112	INTERIOR FIXED LENS CAMERA - CEILING MOUNTED	SEE SCHEDULE	CEILING	(1) CAT6 PLENUM TO IDF/MDF	DORM 4389
CAM-113	INTERIOR FIXED LENS CAMERA - CEILING MOUNTED	SEE SCHEDULE	CEILING	(1) CAT6 PLENUM TO IDF/MDF	DORM 4389
CAM-115	INTERIOR FIXED LENS CAMERA - WALL MOUNTED	SEE SCHEDULE	WALL 6' B.F.C. U.O.N.	(1) CAT6 PLENUM TO IDF/MDF	DORM 4389
CAM-800	INTERIOR FIXED LENS CAMERA - WALL MOUNTED	SEE SCHEDULE	WALL 6' B.F.C. U.O.N.	(1) CAT6 PLENUM TO IDF/MDF	DORM 4389
POE-100	POWER OVER ETHERNET SWITCH	N/R	RACK MOUNTED	(1) CAT6 PLENUM TO IDF/MDF	DORM 4389
AIA-200	AUDIO INTERFACE ADAPTER	N/R	RACK MOUNTED	(1) 22/2 SHIELDED PLENUM TO IDF/MDF	KITCHEN 4390
CAM-015	EXTERIOR FIXED LENS CAMERA - WALL MOUNTED	5-SE5-01	WALL 12' A.G.L. U.O.N.	(1) CAT6 PLENUM TO IDF/MDF	KITCHEN 4390
CAM-016	EXTERIOR FIXED LENS CAMERA - WALL MOUNTED	5-SE5-01	WALL 12' A.G.L. U.O.N.	(1) CAT6 PLENUM TO IDF/MDF	KITCHEN 4390
CAM-017	EXTERIOR FIXED LENS CAMERA - WALL MOUNTED	5-SE5-01	WALL 12' A.G.L. U.O.N.	(1) CAT6 PLENUM TO IDF/MDF	KITCHEN 4390
CAM-025	EXTERIOR FIXED LENS CAMERA - WALL MOUNTED	5-SE5-01	WALL 12' A.G.L. U.O.N.	(1) CAT6 PLENUM TO IDF/MDF	KITCHEN 4390
CAM-026	EXTERIOR FIXED LENS CAMERA - WALL MOUNTED	5-SE5-01	WALL 12' A.G.L. U.O.N.	(1) CAT6 PLENUM TO IDF/MDF	KITCHEN 4390
CAM-027	EXTERIOR FIXED LENS CAMERA - WALL MOUNTED	5-SE5-01	WALL 12' A.G.L. U.O.N.	(1) CAT6 PLENUM TO IDF/MDF	KITCHEN 4390
CAM-028	EXTERIOR FIXED LENS CAMERA - WALL MOUNTED	5-SE5-01	WALL 12' A.G.L. U.O.N.	(1) CAT6 PLENUM TO IDF/MDF	KITCHEN 4390
CAM-050	EXTERIOR FIXED LENS CAMERA - WALL MOUNTED	5-SE5-01	WALL 12' A.G.L. U.O.N.	(1) CAT6 PLENUM TO IDF/MDF	KITCHEN 4390
CAM-051	EXTERIOR FIXED LENS CAMERA - WALL MOUNTED	5-SE5-01	WALL 12' A.G.L. U.O.N.	(1) CAT6 PLENUM TO IDF/MDF	KITCHEN 4390
CAM-200	INTERIOR FIXED LENS CAMERA - CEILING MOUNTED	SEE SCHEDULE	CEILING	(1) CAT6 PLENUM TO IDF/MDF	KITCHEN 4390
CAM-201	INTERIOR FIXED LENS CAMERA - CEILING MOUNTED	SEE SCHEDULE	CEILING	(1) CAT6 PLENUM TO IDF/MDF	KITCHEN 4390
CAM-202	INTERIOR FIXED LENS CAMERA - WALL MOUNTED	SEE SCHEDULE	WALL 6' B.F.C. U.O.N.	(1) CAT6 PLENUM TO IDF/MDF	KITCHEN 4390
CAM-203	INTERIOR FIXED LENS CAMERA - CEILING MOUNTED	SEE SCHEDULE	CEILING	(1) CAT6 PLENUM TO IDF/MDF	KITCHEN 4390
CAM-204	INTERIOR FIXED LENS CAMERA - CEILING MOUNTED	SEE SCHEDULE	CEILING	(1) CAT6 PLENUM TO IDF/MDF	KITCHEN 4390
CAM-205	INTERIOR FIXED LENS CAMERA - CEILING MOUNTED	SEE SCHEDULE	CEILING	(1) CAT6 PLENUM TO IDF/MDF	KITCHEN 4390
CAM-206	INTERIOR FIXED LENS CAMERA - CEILING MOUNTED	SEE SCHEDULE	CEILING	(1) CAT6 PLENUM TO IDF/MDF	KITCHEN 4390
CAM-207	INTERIOR FIXED LENS CAMERA - CEILING MOUNTED	SEE SCHEDULE	CEILING	(1) CAT6 PLENUM TO IDF/MDF	KITCHEN 4390
CAM-209	INTERIOR FIXED LENS CAMERA - CEILING MOUNTED	SEE SCHEDULE	CEILING	(1) CAT6 PLENUM TO IDF/MDF	KITCHEN 4390
CAM-210	INTERIOR FIXED LENS CAMERA - CEILING MOUNTED	SEE SCHEDULE	CEILING	(1) CAT6 PLENUM TO IDF/MDF	KITCHEN 4390
POE-200	POWER OVER ETHERNET SWITCH	N/R	RACK MOUNTED	(1) CAT6 PLENUM TO IDF/MDF	KITCHEN 4390
CAM-034	EXTERIOR FIXED LENS CAMERA - WALL MOUNTED	5-SE5-01	WALL 12' A.G.L. U.O.N.	(1) CAT6 PLENUM TO IDF/MDF	MECH. BLDG. 4392
CAM-035	EXTERIOR FIXED LENS CAMERA - WALL MOUNTED	5-SE5-01	WALL 12' A.G.L. U.O.N.	(1) CAT6 PLENUM TO IDF/MDF	MECH. BLDG. 4392
CAM-029	EXTERIOR FIXED LENS CAMERA - WALL MOUNTED	5-SE5-01	WALL 12' A.G.L. U.O.N.	(1) CAT6 PLENUM TO IDF/MDF	REC. BLDG. 4391
CAM-030	EXTERIOR FIXED LENS CAMERA - WALL MOUNTED	5-SE5-01	WALL 12' A.G.L. U.O.N.	(1) CAT6 PLENUM TO IDF/MDF	REC. BLDG. 4391
CAM-031	EXTERIOR FIXED LENS CAMERA - WALL MOUNTED	5-SE5-01	WALL 12' A.G.L. U.O.N.	(1) CAT6 PLENUM TO IDF/MDF	REC. BLDG. 4391
CAM-032	EXTERIOR FIXED LENS CAMERA - WALL MOUNTED	5-SE5-01	WALL 12' A.G.L. U.O.N.	(1) CAT6 PLENUM TO IDF/MDF	REC. BLDG. 4391
CAM-033	EXTERIOR FIXED LENS CAMERA - WALL MOUNTED	5-SE5-01	WALL 12' A.G.L. U.O.N.	(1) CAT6 PLENUM TO IDF/MDF	REC. BLDG. 4391
CAM-052	EXTERIOR FIXED LENS CAMERA - WALL MOUNTED	5-SE5-01	WALL 12' A.G.L. U.O.N.	(1) CAT6 PLENUM TO IDF/MDF	REC. BLDG. 4391
CAM-500	INTERIOR FIXED LENS CAMERA - WALL MOUNTED	SEE SCHEDULE	WALL 6' B.F.C. U.O.N.	(1) CAT6 PLENUM TO IDF/MDF	REC. BLDG. 4391
CAM-501	INTERIOR FIXED LENS CAMERA - WALL MOUNTED	SEE SCHEDULE	WALL 6' B.F.C. U.O.N.	(1) CAT6 PLENUM TO IDF/MDF	REC. BLDG. 4391
CAM-502	INTERIOR FIXED LENS CAMERA - WALL MOUNTED	SEE SCHEDULE	WALL 6' B.F.C. U.O.N.	(1) CAT6 PLENUM TO IDF/MDF	REC. BLDG. 4391
CAM-503	INTERIOR FIXED LENS CAMERA - CEILING MOUNTED	SEE SCHEDULE	CEILING	(1) CAT6 PLENUM TO IDF/MDF	REC. BLDG. 4391
CAM-504	INTERIOR FIXED LENS CAMERA - WALL MOUNTED	SEE SCHEDULE	WALL 6' B.F.C. U.O.N.	(1) CAT6 PLENUM TO IDF/MDF	REC. BLDG. 4391
POE-500	POWER OVER ETHERNET SWITCH	N/R	RACK MOUNTED	(1) CAT6 PLENUM TO IDF/MDF	REC. BLDG. 4391

DEVICE SCHEDULE

DEVICE ID	DESCRIPTION	DETAIL	MOUNTING/HEIGHT	CABLE TYPE	LOCATION
CAM-001	EXTERIOR FIXED LENS CAMERA - POLE MOUNTED	7-SE5-01	POLE 14' A.G.L. U.O.N.	(1) CAT6 PLENUM TO IDF/MDF	SITE PLAN
CAM-002	EXTERIOR FIXED LENS CAMERA - POLE MOUNTED	7-SE5-01	POLE 14' A.G.L. U.O.N.	(1) CAT6 PLENUM TO IDF/MDF	SITE PLAN
CAM-038	EXTERIOR FIXED LENS CAMERA - POLE MOUNTED	7-SE5-01	POLE 14' A.G.L. U.O.N.	(1) CAT6 PLENUM TO IDF/MDF	SITE PLAN
CAM-039	EXTERIOR FIXED LENS CAMERA - POLE MOUNTED	7-SE5-01	POLE 14' A.G.L. U.O.N.	(1) CAT6 PLENUM TO IDF/MDF	SITE PLAN
CAM-041	EXTERIOR FIXED LENS CAMERA - POLE MOUNTED	7-SE5-01	POLE 14' A.G.L. U.O.N.	(1) CAT6 PLENUM TO IDF/MDF	SITE PLAN
CAM-042	EXTERIOR FIXED LENS CAMERA - POLE MOUNTED	7-SE5-01	POLE 14' A.G.L. U.O.N.	(1) CAT6 PLENUM TO IDF/MDF	SITE PLAN
CAM-043	EXTERIOR FIXED LENS CAMERA - POLE MOUNTED	7-SE5-01	POLE 14' A.G.L. U.O.N.	(1) CAT6 PLENUM TO IDF/MDF	SITE PLAN
CAM-044	EXTERIOR FIXED LENS CAMERA - POLE MOUNTED	7-SE5-01	POLE 14' A.G.L. U.O.N.	(1) CAT6 PLENUM TO IDF/MDF	SITE PLAN
CAM-045	EXTERIOR FIXED LENS CAMERA - POLE MOUNTED	7-SE5-01	POLE 14' A.G.L. U.O.N.	(1) CAT6 PLENUM TO IDF/MDF	SITE PLAN
CAM-046	EXTERIOR FIXED LENS CAMERA - POLE MOUNTED	7-SE5-01	POLE 14' A.G.L. U.O.N.	(1) CAT6 PLENUM TO IDF/MDF	SITE PLAN
CAM-047	EXTERIOR FIXED LENS CAMERA - POLE MOUNTED	7-SE5-01	POLE 14' A.G.L. U.O.N.	(1) CAT6 PLENUM TO IDF/MDF	SITE PLAN
CAM-053	EXTERIOR FIXED LENS CAMERA - POLE MOUNTED	7-SE5-01	POLE 14' A.G.L. U.O.N.	(1) CAT6 PLENUM TO IDF/MDF	SITE PLAN
CAM-054	EXTERIOR FIXED LENS CAMERA - POLE MOUNTED	7-SE5-01	POLE 14' A.G.L. U.O.N.	(1) CAT6 PLENUM TO IDF/MDF	SITE PLAN
CAM-055	EXTERIOR FIXED LENS CAMERA - POLE MOUNTED	7-SE5-01	POLE 14' A.G.L. U.O.N.	(1) CAT6 PLENUM TO IDF/MDF	SITE PLAN
CAM-058	EXTERIOR FIXED LENS CAMERA - POLE MOUNTED	7-SE5-01	POLE 14' A.G.L. U.O.N.	(1) CAT6 PLENUM TO IDF/MDF	SITE PLAN
CAM-059	EXTERIOR FIXED LENS CAMERA - POLE MOUNTED	7-SE5-01	POLE 14' A.G.L. U.O.N.	(1) CAT6 PLENUM TO IDF/MDF	SITE PLAN
CAM-060	EXTERIOR FIXED LENS CAMERA - POLE MOUNTED	7-SE5-01	POLE 14' A.G.L. U.O.N.	(1) CAT6 PLENUM TO IDF/MDF	SITE PLAN
CAM-061	EXTERIOR FIXED LENS CAMERA - POLE MOUNTED	7-SE5-01	POLE 14' A.G.L. U.O.N.	(1) CAT6 PLENUM TO IDF/MDF	SITE PLAN
CAM-062	EXTERIOR FIXED LENS CAMERA - POLE MOUNTED	7-SE5-01	POLE 14' A.G.L. U.O.N.	(1) CAT6 PLENUM TO IDF/MDF	SITE PLAN
CAM-063	EXTERIOR FIXED LENS CAMERA - POLE MOUNTED	7-SE5-01	POLE 14' A.G.L. U.O.N.	(1) CAT6 PLENUM TO IDF/MDF	SITE PLAN
CAM-064	EXTERIOR FIXED LENS CAMERA - POLE MOUNTED	7-SE5-01	POLE 14' A.G.L. U.O.N.	(1) CAT6 PLENUM TO IDF/MDF	SITE PLAN
CAM-066	EXTERIOR FIXED LENS CAMERA - POLE MOUNTED	7-SE5-01	POLE 14' A.G.L. U.O.N.	(1) CAT6 PLENUM TO IDF/MDF	SITE PLAN

1 SECURITY DEVICE SCHEDULE
NTS



2 CEILING MOUNTED MICROPHONE
NTS

SECURITY CAMERA COUNTS

DESCRIPTION	Count
EXTERIOR FIXED LENS CAMERA - CORNER MOUNTED	2
EXTERIOR FIXED LENS CAMERA - POLE MOUNTED	23
EXTERIOR FIXED LENS CAMERA - WALL MOUNTED	86
INTERIOR FIXED LENS CAMERA - CEILING MOUNTED	36
INTERIOR FIXED LENS CAMERA - WALL MOUNTED	36
Grand total: 183	

3 SECURITY CAMERA COUNT
NTS

GENERAL NOTES:

A. CONTRACTOR IS RESPONSIBLE FOR ALL MOUNTING HARDWARE FOR EQUIPMENT. CONTRACTOR SHALL FIELD VERIFY MOUNTING CONDITIONS AND CONFIRM MOUNTING REQUIREMENTS PRIOR TO PROCUREMENT AND ROUGH-IN

HUITT ZOLLARS
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CONSULTANT
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895 DOVE ST. 3RD FLOOR
NEWPORT BEACH, CA 92660
949.324.3547

ARCHITECT SEAL

CONSULTANT SEAL

BID SET

ISSUED BLOCK / HISTORY LOG

NO.	ISSUED	DATE
	PLAN CHECK	05/03/2024
	BID SET	11/11/2024

AGENCY APPLICATION NUMBER
UNC-MECH240510001771

AGENCY APPROVAL STAMP

PROJECT
LAC DPW AFFLER

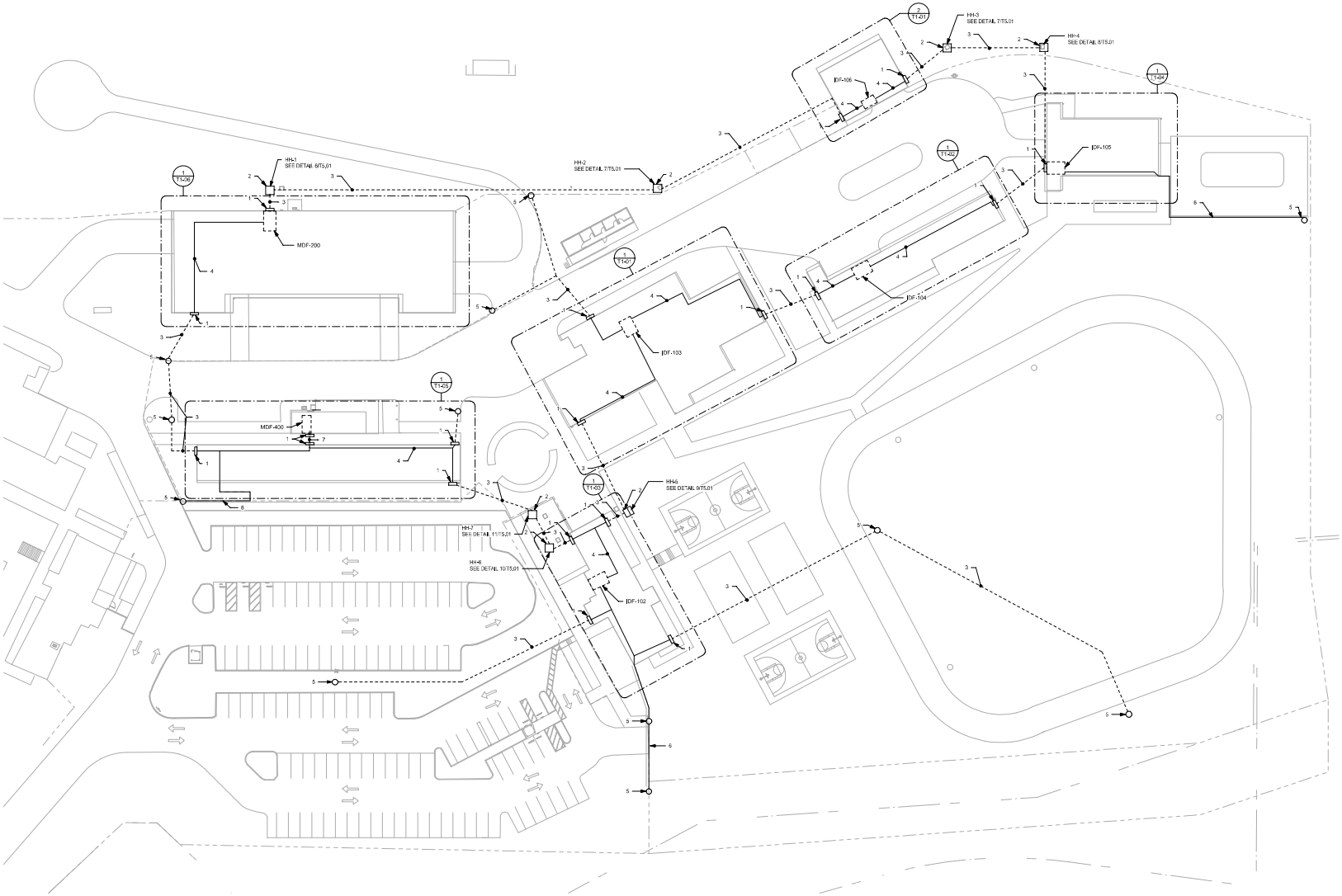
GENERAL NOTES:

A. COORDINATE ALL U.G. PATHWAYS WITH EXISTING U.G. UTILITIES. PROVIDE DIMENSIONED SHOP DRAWINGS FOR REVIEW AND APPROVAL BY DESIGN TEAM.

B. CONTRACTOR IS RESPONSIBLE FOR ALL TRENCHING AND PATCHING WHERE NECESSARY.

SHEET NOTES:

1. 20"X16"X8" METAL NEMA 4X WEATHER PROOF ENCLOSURE WITH VANDAL RESISTANT LOCKABLE, GASKETED DOOR & HARDWARE. SECURE BOX TO WALL TYPICAL FOR ALL OUTSIDEWALL PULL BOX LOCATIONS.
2. PG STYLE QUAZITE 24"HX36"LX30"D BELOW GROUND BOX (TIER 15) WITH LOCKABLE COVER AND LOGO "TELECOM". REFER TO DETAIL 6/T5-01.
3. (2) 2 1/2" UNDERGROUND CONDUITS.
4. CABLING ON J-HOOK SUPPORTS ABOVE CEILING. ALL EXPOSED CABLING TO BE INSTALLED IN CONDUIT.
5. EXISTING LIGHT POLE FOR POLE MOUNTED CAMERA.
6. CONDUIT INSTALLED ABOVE GROUND ON EXTERIOR FENCELINE.
7. (2) 2 1/2" ABOVE GROUND CONDUITS.



1 TELECOM SITE PLAN
1" = 30'-0"

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ARCHITECTURAL

CONSULTANT/SUB.
BICSI
Rockville, MD, 21461
High Noon

BID SET

ISSUED BLOCK / HISTORY LOG

NO.	ISSUED	DATE
	PLAN CHECK	05/03/2024
	BID SET	11/11/2024

AGENCY APPLICATION NUMBER
UNC-MECH240510001771

AGENCY APPROVAL STAMP

PROJECT
LAC DPW AFFLERBAUGH PAIGE CAMP
CCTV SYSTEM
-

SHEET TITLE
TELECOM SITE PLAN

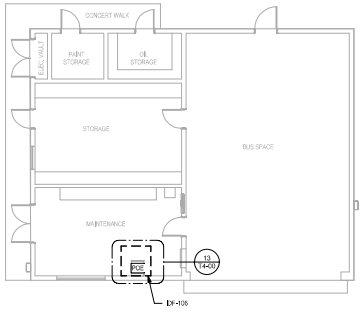
HZ PROJ. NO.	R31608.04	LA DPW SPEC. NO.	7701
		PERMIT NO.	

T1-00

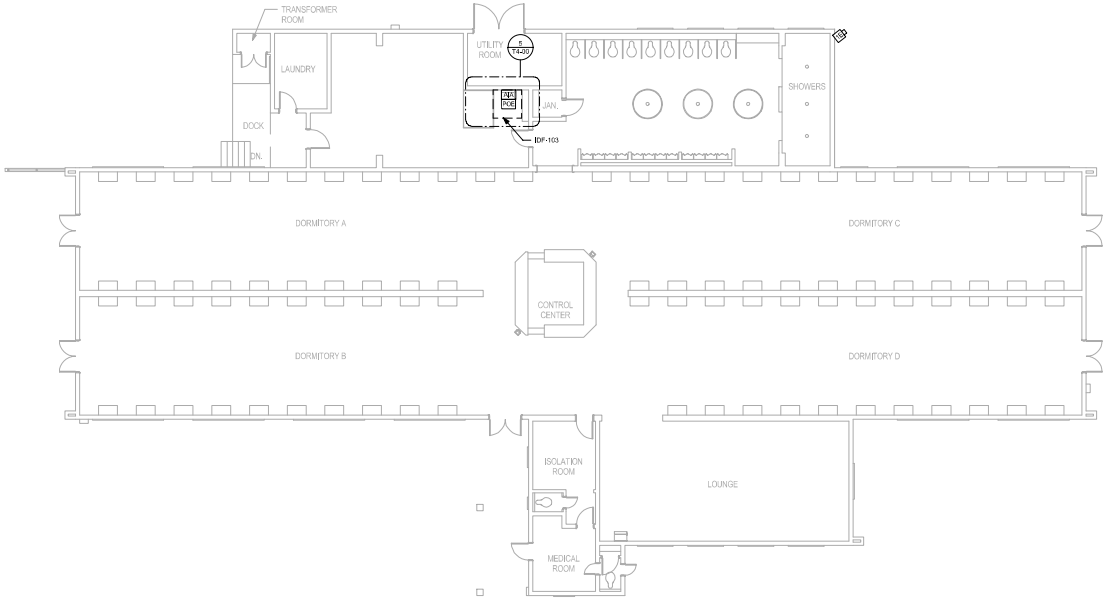
GENERAL NOTES:

A. ALL CABLING SHALL BE WITHIN MIN. 3/4" CONDUIT, CONTRACTOR MAY COMBINE CONDUITS WHILE MAINTAINING MINIMUM 40% FILL RATIO.

B. COORDINATE CEILING MOUNTED DEVICE LOCATIONS WITH ARCHITECT AND OTHER TRADES PRIOR TO ROUGH-IN.



2 TELECOM MECHANICAL BUILDING FLOOR PLAN
1 : 180



1 TELECOM DORM FLOOR PLAN
1/8" = 1'-0"

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ARCHITECTURAL

CONSULTANT/SUB.

BICSI
Ellicott City, MD, 21043
High Rises

BID SET

ISSUED BLOCK / HISTORY LOG

NO.	ISSUED	DATE
	PLAN CHECK	05/03/2024
	BID SET	11/11/2024

AGENCY APPLICATION NUMBER
UNC-MECH240510001771

AGENCY APPROVAL STAMP

PROJECT
LAC DPW AFFLERBAUGH PAIGE CAMP
CCTV SYSTEM
-

SHEET TITLE
TELECOM DORM AND MECHANICAL FLOOR PLAN

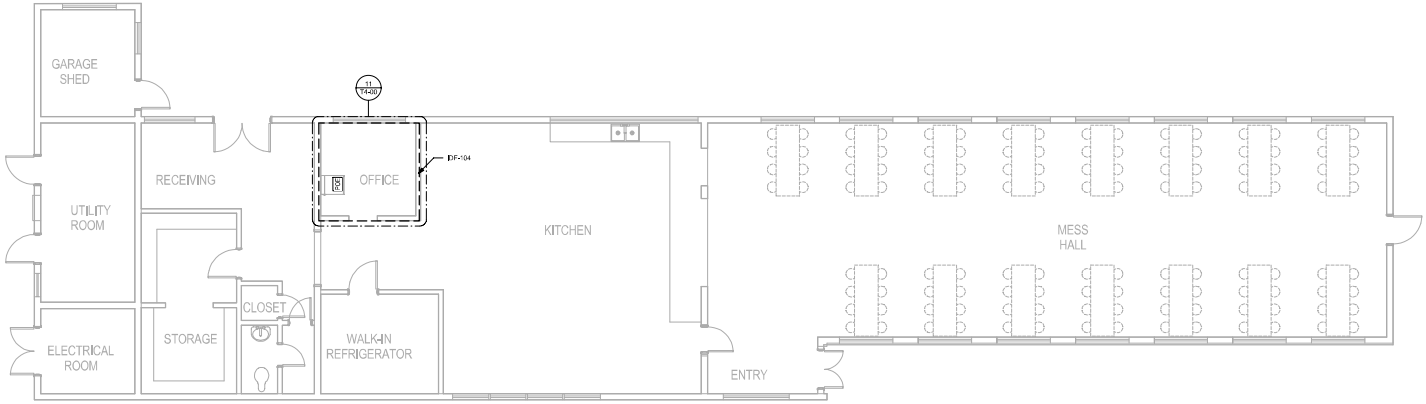
HZ PROJ. NO.	R31608.04	LA DPW SPEC. NO.	7701
		PERMIT NO.	

T1-01

GENERAL NOTES:

A. ALL CABLING SHALL BE WITHIN MIN. 3/4" CONDUIT, CONTRACTOR MAY COMBINE CONDUITS WHILE MAINTAINING MINIMUM 40% FILL RATIO.

B. COORDINATE CEILING MOUNTED DEVICE LOCATIONS WITH ARCHITECT AND OTHER TRADES PRIOR TO ROUGH-IN.



1 TELECOM KITCHEN/MESS HALL FLOOR PLAN
3/16" = 1'-0"

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949.324.3547

ARCHITECT SEAL

CONSULTANT SEAL

BID SET

ISSUED BLOCK / HISTORY LOG

NO.	ISSUED	DATE
	PLAN CHECK	05/03/2024
	BID SET	11/11/2024

AGENCY APPLICATION NUMBER
UNC-MECH240510001771

AGENCY APPROVAL STAMP

PROJECT
LAC DPW AFFLERBAUGH PAIGE CAMP CCTV SYSTEM
-

SHEET TITLE
TELECOM KITCHEN/MESS HALL FLOOR PLAN

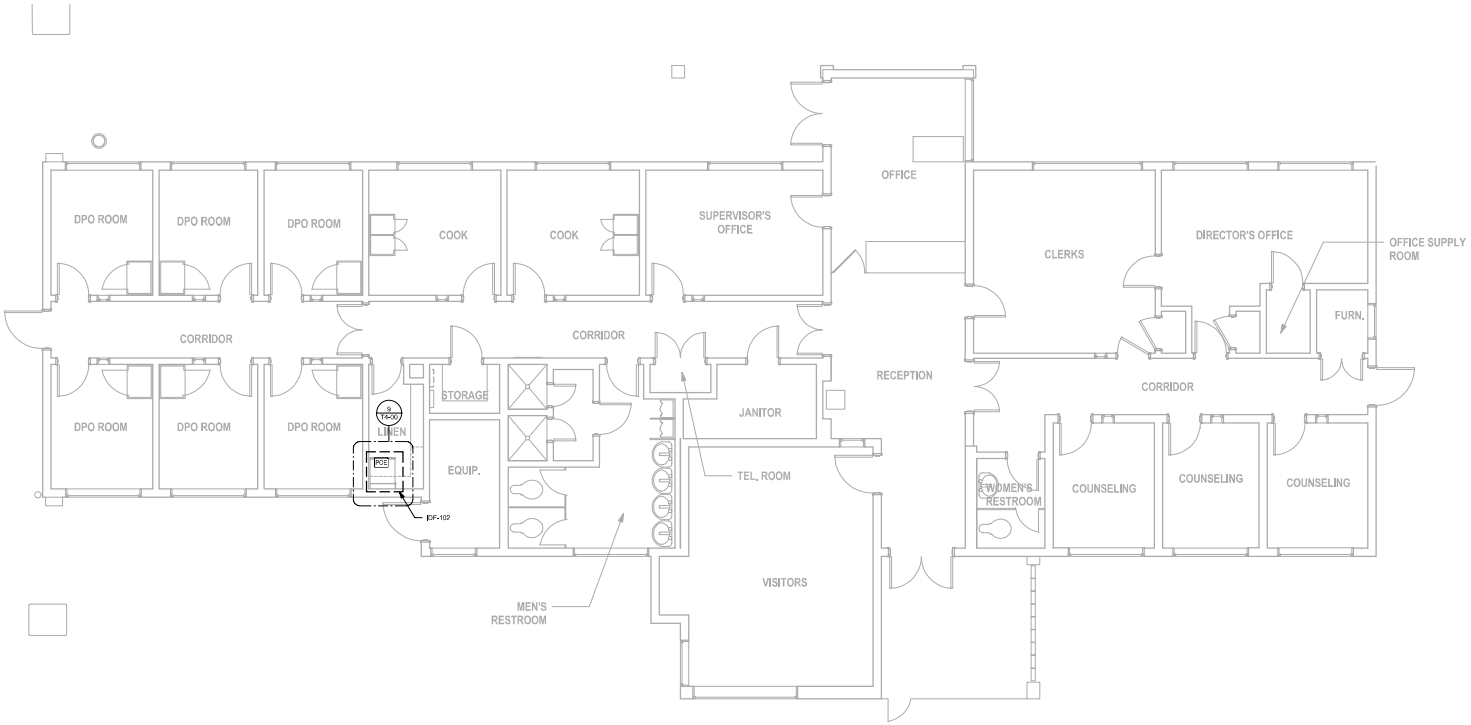
HZ PROJ. NO.	R31608.04	LA DPW SPEC. NO.	7701
		PERMIT NO.	

T1-02

GENERAL NOTES:

A. ALL CABLING SHALL BE WITHIN MIN. 3/4" CONDUIT. CONTRACTOR MAY COMBINE CONDUITS WHILE MAINTAINING MINIMUM 40% FILL RATIO.

B. COORDINATE CEILING MOUNTED DEVICE LOCATIONS WITH ARCHITECT AND OTHER TRADES PRIOR TO ROUGH-IN.



1 TELECOM ADMIN BUILDING FLOOR PLAN
1/4" = 1'-0"

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CONSULTANT

Exante360

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NEWPORT BEACH, CA 92660
949.324.3547

ARCHITECTURAL

CONSULTANT/ENGINEER

BICSI
Tampa, FL 33607
High Rises

BID SET

ISSUED BLOCK / HISTORY LOG

NO.	ISSUED	DATE
	PLAN CHECK	05/03/2024
	BID SET	11/11/2024

AGENCY APPLICATION/REPORT
UNC-MECH240510001771

AGENCY APPROVAL STAMP

PROJECT
LAC DPW AFFLERBAUGH PAIGE CAMP
CCTV SYSTEM
-

SHEET TITLE
TELECOM ADMIN BUILDING
FLOOR PLAN

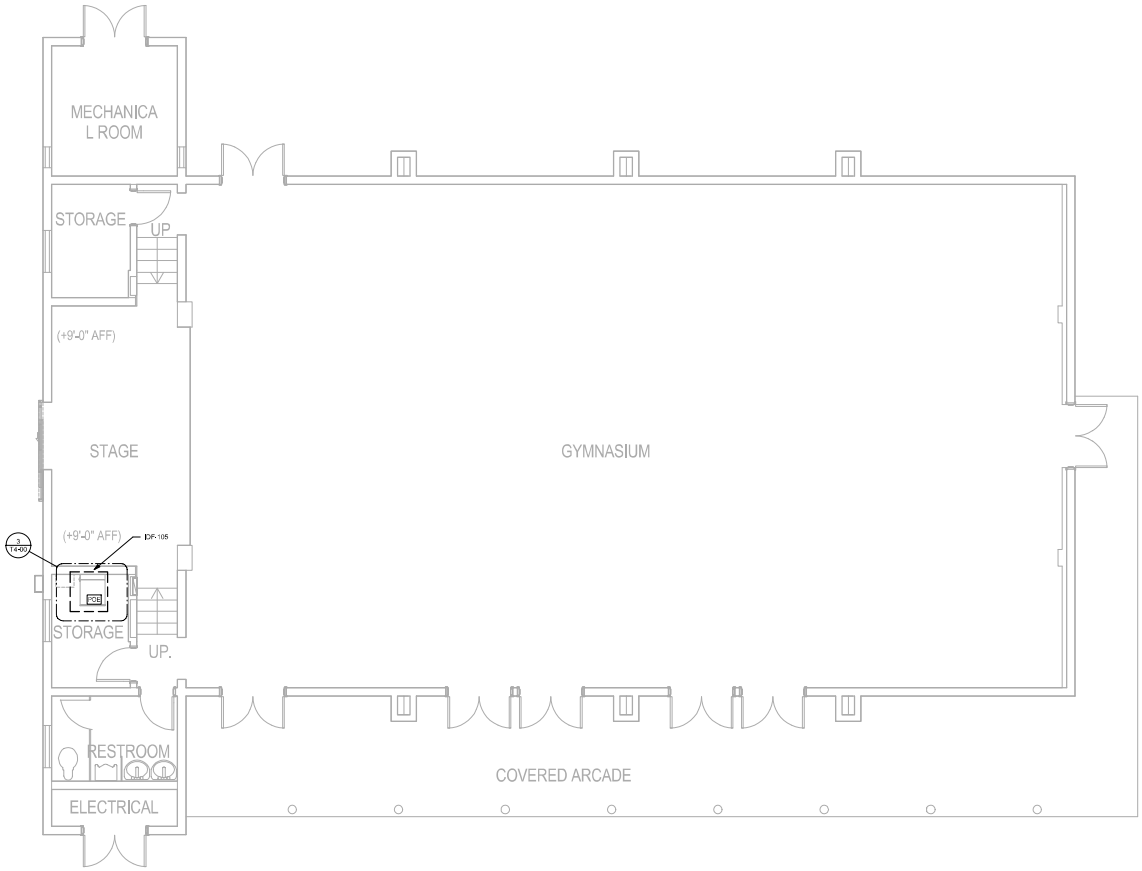
HZ PROJ. NO.	R31608.04	LA DPW SPEC. NO.	7701
		PERMIT NO.	

T1-03

GENERAL NOTES:

A. ALL CABLING SHALL BE WITHIN MIN. 3/4" CONDUIT. CONTRACTOR MAY COMBINE CONDUITS WHILE MAINTAINING MINIMUM 40% FILL RATIO.

B. COORDINATE CEILING MOUNTED DEVICE LOCATIONS WITH ARCHITECT AND OTHER TRADES PRIOR TO ROUGH-IN.



1 TELECOM RECREATION BUILDING FLOOR PLAN
3/16" = 1'-0"

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Exante360
895 DOVE ST. 3RD FLOOR
NEWPORT BEACH, CA 92660
949.324.3547

ARCHITECT SEAL

CONSULTANT SEAL
Bright Network Communications
Irvine, CA 92697
High Rises

BID SET

ISSUED BLOCK / HISTORY LOG

NO.	ISSUED	DATE
	PLAN CHECK	05/03/2024
	BID SET	11/11/2024

AGENCY APPLICATION NUMBER
UNC-MECH240510001771

AGENCY APPROVAL STAMP

PROJECT
LAC DPW AFFLERBAUGH PAIGE CAMP CCTV SYSTEM
-

SHEET TITLE
TELECOM RECREATION BUILDING FLOOR PLAN

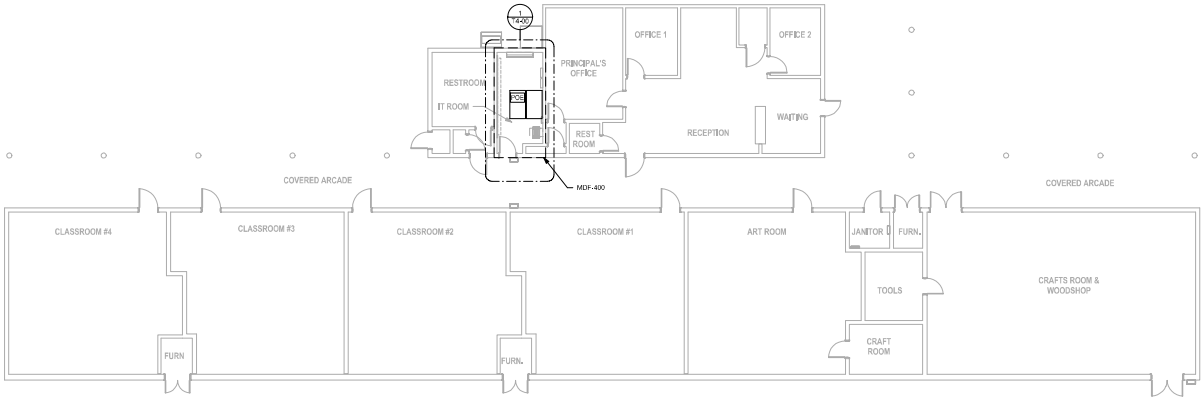
HZ PROJ. NO.	R31608.04	LA DPW SPEC. NO.	7701
		PERMIT NO.	

T1-04

GENERAL NOTES:

A. ALL CABLING SHALL BE WITHIN MIN. 3/4" CONDUIT, CONTRACTOR MAY COMBINE CONDUITS WHILE MAINTAINING MINIMUM 40% FILL RATIO.

B. COORDINATE CEILING MOUNTED DEVICE LOCATIONS WITH ARCHITECT AND OTHER TRADES PRIOR TO ROUGH-IN.



1 TELECOM SCHOOL BUILDING FLOOR PLAN
1/8" = 1'-0"

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ARCHITECT SEAL

CONSULTANT SEAL

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NO.	ISSUED	DATE
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UNC-MECH240510001771

AGENCY APPROVAL STAMP

PROJECT
LAC DPW AFFLERBAUGH PAIGE CAMP
CCTV SYSTEM
-

SHEET TITLE
TELECOM SCHOOL
BUILDING FLOOR PLAN

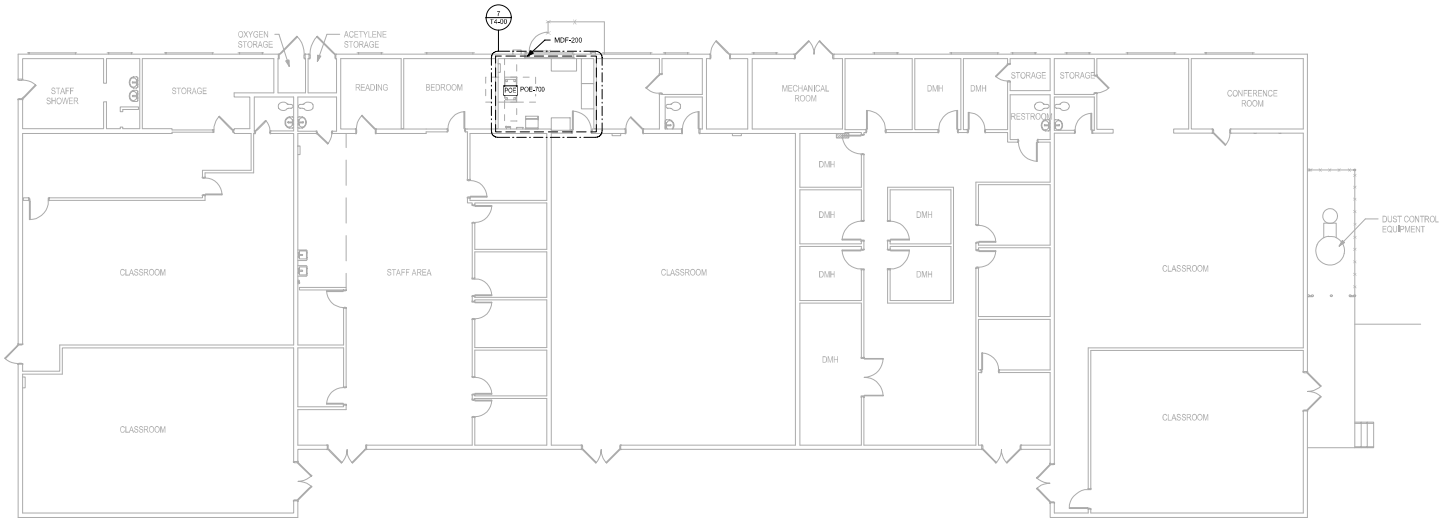
HZ PROJ. NO.	R31608.04	LA DPW SPEC. NO.	7701
		PERMIT NO.	

T1-05

GENERAL NOTES:

A. ALL CABLING SHALL BE WITHIN MIN. 3/4" CONDUIT, CONTRACTOR MAY COMBINE CONDUITS WHILE MAINTAINING MINIMUM 40% FILL RATIO.

B. COORDINATE CEILING MOUNTED DEVICE LOCATIONS WITH ARCHITECT AND OTHER TRADES PRIOR TO ROUGH-IN.



1 TELECOM SCHOOL ANNEX BUILDING FLOOR PLAN
1/8" = 1'-0"

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ARCHITECT SEAL

CONSULTANT SEAL

BICSI
Rockville, MD, 20850
High Rises

BID SET

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	BID SET	11/11/2024

AGENCY APPLICATION NUMBER
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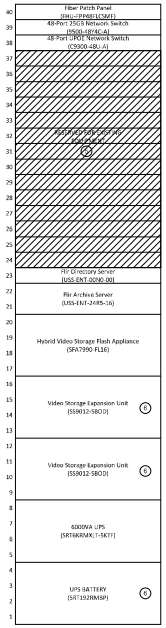
AGENCY APPROVAL STAMP

PROJECT
LAC DPW AFFLERBAUGH PAIGE CAMP CCTV SYSTEM
-

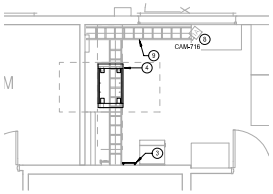
SHEET TITLE
TELECOM SCHOOL ANNEX FLOOR PLAN

HZ PROJ. NO.	R31608.04	LA DPW SPEC. NO.	7701
		PERMIT NO.	

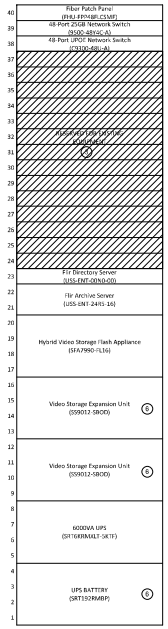
T1-06



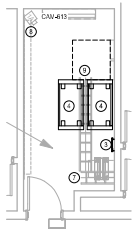
8 MDF-200 RACK ELEVATION
N.T.S.



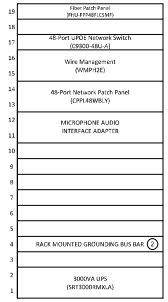
7 SCHOOL ANNEX MDF-200 AND RACK ELEVATION
1/4" = 1'-0"



2 MDF-400 RACK ELEVATION
N.T.S.



1 SECURITY SCHOOL MDF-400 AND RACK ELEVATION
1/4" = 1'-0"



10 IDF-102 RACK ELEVATION
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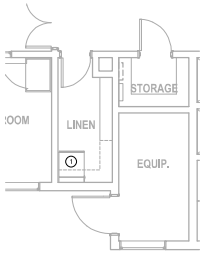
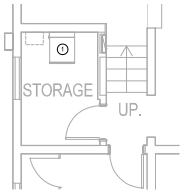
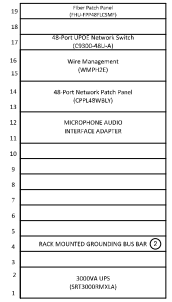


9 SECURITY ADMIN BUILDING IDF-102 AND RACK ELECATION
1/4" = 1'-0"

4 IDF-105 RACK ELEVATION
N.T.S.

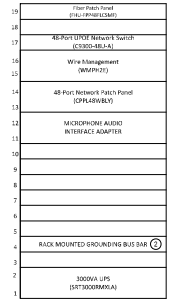


3 GYM IDF-105 AND RACK ELEVATION
1/4" = 1'-0"

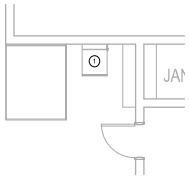


12 IDF-104 RACK ELEVATION
N.T.S.

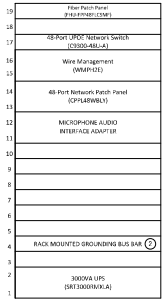
11 KITCHEN IDF-104 AND RACK ELEVATION
1/4" = 1'-0"



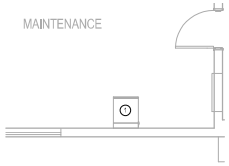
6 IDF-103 RACK ELEVATION
N.T.S.



5 DORM IDF-103 AND RACK ELEVATION
1/4" = 1'-0"



14 IDF-106 RACK ELEVATION
N.T.S.



13 MECHANICAL BUILDING IDF-106 AND RACK ELEVATION
1/4" = 1'-0"

SHEET NOTES:

1. NEW CUBE-IT WALL MOUNT CABINET (19U), 36"H X 24"W X 30"D, MOUNT CABINET AT 48" A.F.F.
2. ELECTRICAL CONTRACTOR SHALL PROVIDE GROUND CONNECTION TO BUS BAR VIA #6 AWG STRANDED CABLE.
3. SECONDARY BONDING BUSBAR @ 18" A.F.F. SEE DETAIL 5/T5-01. ELECTRICAL CONTRACTOR SHALL PROVIDE GROUND CONNECTION TO BUS BAR VIA #6 AWG STRANDED CABLE.
4. NEW 4 POST FLOOR MOUNT RACK
5. 12"W CABLE RUNWAY
6. EQUIPMENT QUANTITY BY CONTRACTOR.
7. EXISTING IDF RACK TO REMAIN. PROTECT IN PLACE.
8. NEW SECURITY CAMERA. SEE SECURITY DRAWINGS FOR FURTHER INFORMATION.
9. NEW 12" CABLE TRAY.

GENERAL NOTES:

A. FINAL RACK LOCATIONS SHALL BE FIELD COORDINATED WITH OWNER, DESIGN TEAM, AND OTHER TRADES PRIOR TO INSTALLATION. NEW RACK LOCATIONS REQUIRE NEW POWER.

B. EXISTING WALL RACK SHALL BE REMOVED AND REPLACED WITH 4 POST CABINET. EXISTING EQUIPMENT AND CABLING SHALL BE MIGRATED TO THE EXISTING 2 POST WHERE ABLE AND THE REMAINDER WILL BE PLACED IN THE NEW 4 POST. COORDINATE MIGRATION OF CABLING AND EQUIPMENT WITH OWNER.

C. DIVISION 27 CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL NECESSARY SFP MODULES REQUIRED. COORDINATE FIBER BACKBONE DESIGN WITH ISD.

D. MAINTAIN CODE REQUIRED CLEARANCE FROM EXISTING FIRE ALARM PANELS.

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ARCHITECTURAL

CONSULTANT SEAL
Bloch, M. 214461
High Voltage

BID SET

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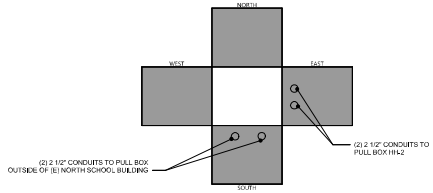
AGENCY APPROVAL STAMP

PROJECT
LAC DPW AFFLERBAUGH PAIGE CAMP
CCTV SYSTEM
-

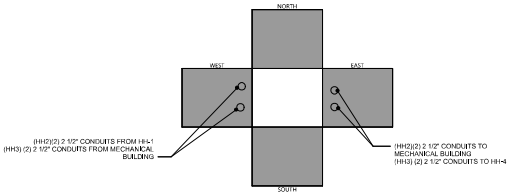
SHEET TITLE
TELECOM ENLARGED PLANS AND RACK ELEVATIONS

HZ PROJ. NO.	R311608.04	LA DPW SPEC. NO.	7701
		PERMIT NO.	

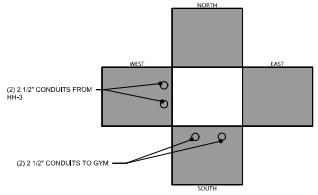
T4-00



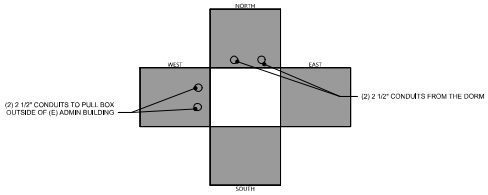
6 BUTTERFLY DETAILS HH-1
N.T.S.



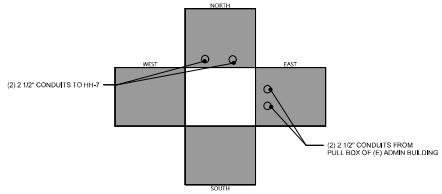
7 BUTTERFLY DETAILS HH-2&3
N.T.S.



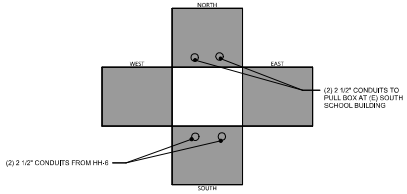
8 BUTTERFLY DETAILS HH-4
N.T.S.



9 BUTTERFLY DETAILS HH-5
N.T.S.



10 BUTTERFLY DETAILS HH-6
N.T.S.

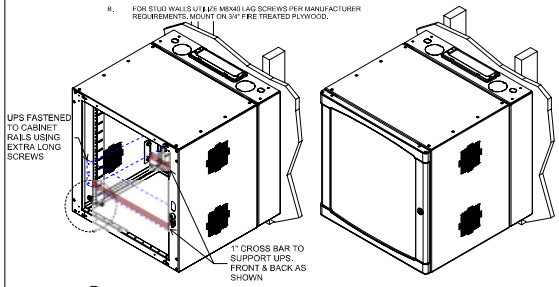


11 BUTTERFLY DETAILS HH-7
N.T.S.

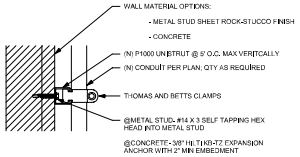
GENERAL NOTES:

A. FOR MASONARY WALLS UTILIZE 1/4" HILTI KBTZ ANCHORS.

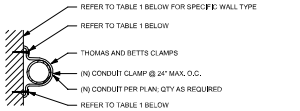
B. FOR STUD WALLS UTILIZE M6X40 LAG SCREWS PER MANUFACTURER REQUIREMENTS, MOUNT ON 3/4" FIRE TREATED PLYWOOD.



4 WALL MOUNT CABINET
N.T.S.



VERTICAL CONDUIT MOUNTING



CONDUIT MOUNTING ON WALL

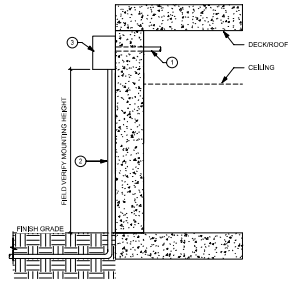
TABLE

WALL TYPE	ANCHORAGE
DRYWALL OVER METAL STUDS	#14 x 3 SELF TAPPING HEX HEAD INTO METAL STUD
PLYWOOD	#14 x 1" WOOD SCREWS
CONCRETE	3/8" Hilti KB-TZ BOLT WITH 2" EMBEDMENT, PER ICC_ESR 1917

1 CONDUIT MOUNTING - VERTICAL AND HORIZONTAL
N.T.S.

NOTES TO DETAIL:

1. CONDUIT TO ACCESSIBLE CEILING, CABLE CAN UTILIZE NEW OR EXISTING J-HOOK INFRASTRUCTURE WITHIN ACCESSIBLE CEILING.
2. CONDUITS - QUANTITY AND SIZE PER PLANS.
3. STEEL NEMA BOX WITH DRIP HOLE, ENSURE CONDUIT ENTERS NEMA BOX MIN 2" WITH BUSHING.



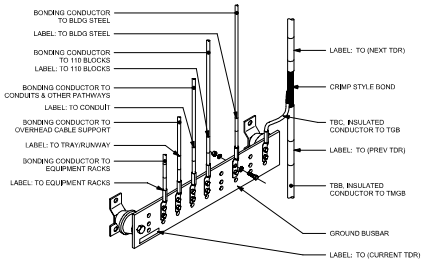
5 TYPICAL NEMA BOX MOUNTING DETAIL
N.T.S.

GENERAL NOTES:

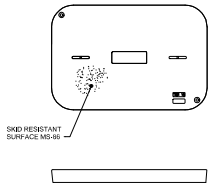
A. PROVIDE COMPLETE WITH APPROPRIATE MOUNTING HARDWARE (BOLTS, NUTS, LOCKWASHERS, STAND OFF BRACKETS AND INSULATORS), MOUNTING HOLES, SLOTS AND LUGS.

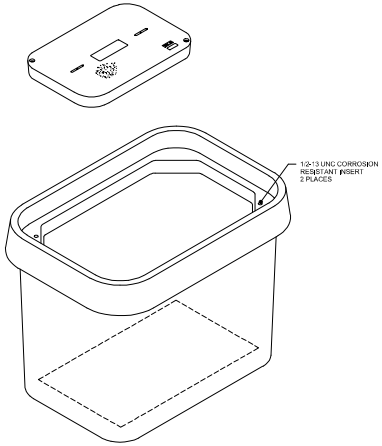
B. ASSEMBLED GROUND BARS SHALL BE FABRICATED FROM STOCK LIST AND DETAIL DRAWINGS CONTAINED WITH THIS EXHIBIT.

C. BUSBAR CONNECTORS SHALL UTILIZE 2 HOLE COMPRESSION CONNECTERS.



2 BUS BAR DETAIL
N.T.S.





GENERAL NOTES:

A. REFER TO SPECIFICATION SECTION 27 05 28 / 2.1 / B FOR FURTHER DETAIL.

3 HAND-HOLE DETAIL
N.T.S.

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ARCHITECT SEAL

CONSULTANT SEAL

BICSI
Registered Communications Distribution Designer
Hugh Nibbs

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CCTV SYSTEM
-

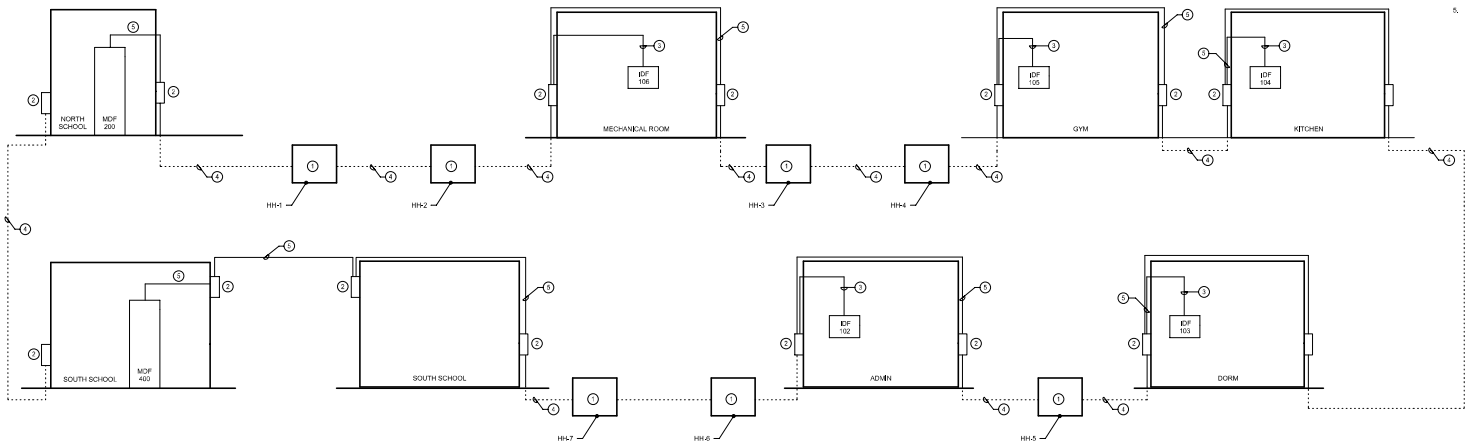
SHEET TITLE
TELECOM DETAILS

HZ PROJ. NO.	R31608.04	LA DPW SPEC. NO.	7701
		PERMIT NO.	

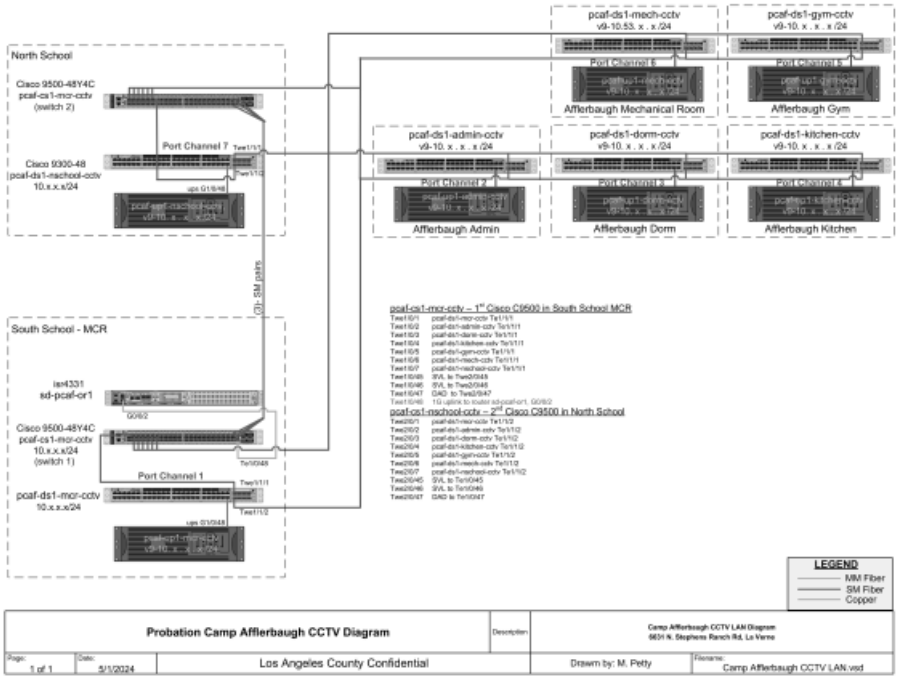
T5-01

SHEET NOTES:

1. UNDERGROUND PULL BOX. REFER TO SHEET T5.01.
2. NEMA 4X WEATHER PROOF METAL ENCLOSURE. REFER TO SHEET T5.01
3. (1) 2 1/2" CONDUIT.
4. (2) 2 1/2" UNDERGROUND CONDUITS.
5. (2) 2 1/2" CONDUITS.



1 PATHWAYS RISER DIAGRAM
NTS



2 FIBER LAN DIAGRAM
NTS

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949.324.3547

ARCHITECTURAL

CONSULTANT/SEAL
Bloch, M. 21667
High Rises

BID SET

ISSUED BLOCK / HISTORY LOG

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PROJECT
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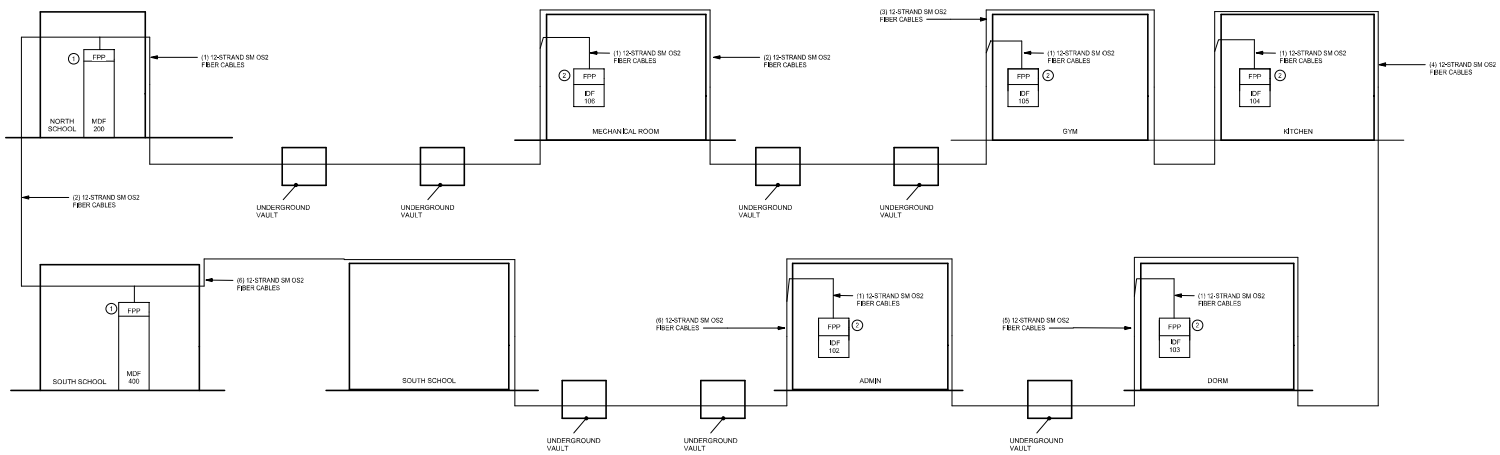
SHEET TITLE
TECHNOLOGY PATHWAYS DIAGRAM / FIBER LAN DIAGRAM

HZ PROJ. NO.	R31608.04	LA DPW SPEC. NO.	7701
		PERMIT NO.	

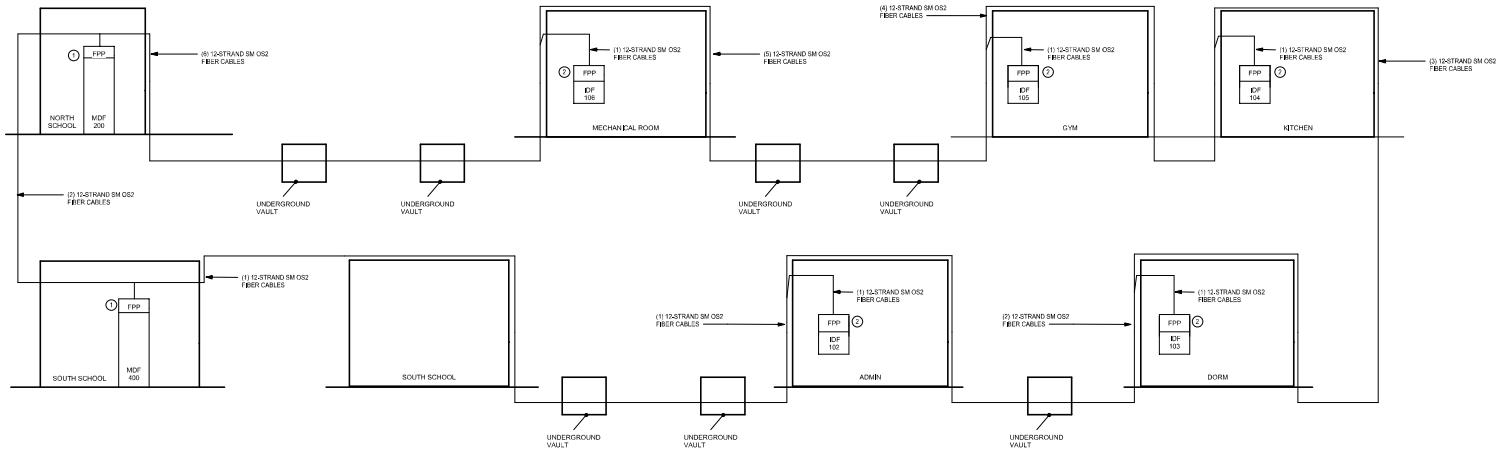
T6-01

SHEET NOTES:

1. 4U FIBER PATCH PANEL
2. 1U FIBER PATCH PANEL



2 FIBER RISER DIAGRAM (SECONDARY)
NTS



1 FIBER RISER DIAGRAM (PRIMARY)
NTS

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ARCHITECTURAL

CONSULTANT/SEAL

BICSI
Rockville, MD, 21461
High Rises

BID SET

ISSUED BLOCK / HISTORY LOG

NO.	ISSUED	DATE
	PLAN CHECK	05/03/2024
	BID SET	11/11/2024

AGENCY APPLICATION NUMBER
UNC-MECH240510001771

AGENCY APPROVAL STAMP

PROJECT
LAC DPW AFFLERBAUGH PAIGE CAMP CCTV SYSTEM
-

SHEET TITLE
TECHNOLOGY FIBER RISER DIAGRAM

HZ PROJ. NO.	R31608.04	LA DPW SPEC. NO.	7701
		PERMIT NO.	

T6-02