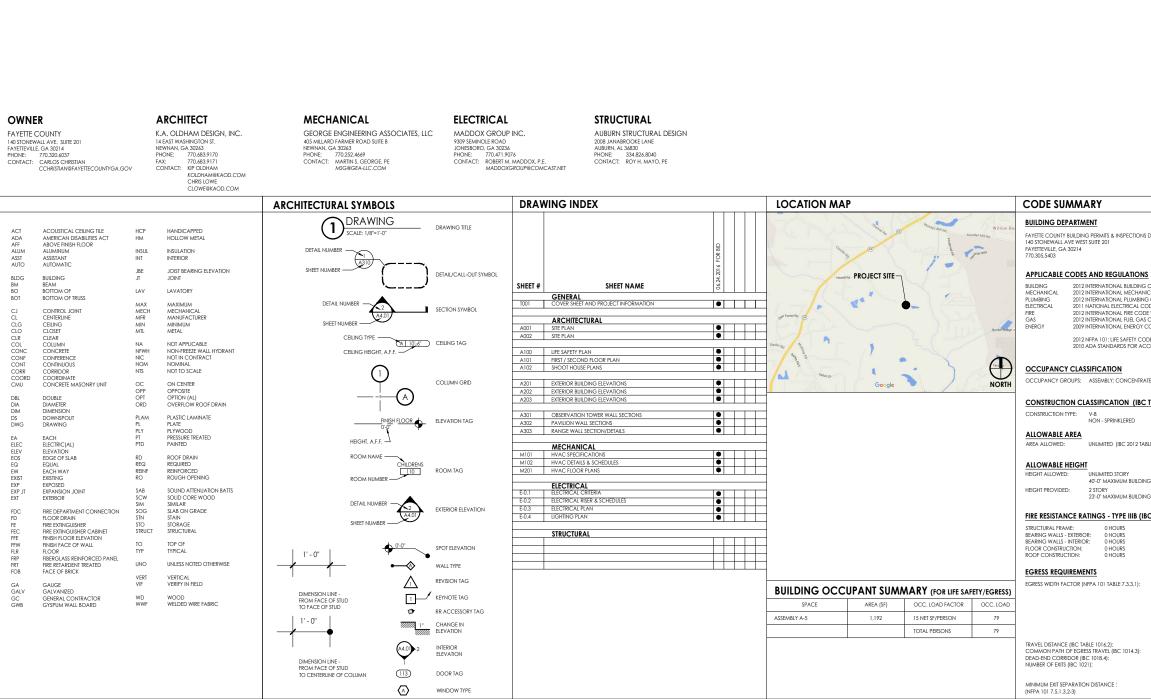
FAYETTE COUNTY TRAINING FACILITY **FIRING RANGE/OBSERVATION TOWER**

340 HEWELL ROAD JONESBORO, GA 30238



FAYETTE COUNTY BUILDING PERMITS & INSPECTIONS DEPARTMENT 140 STONEWALL AVE WEST SUITE 201

- 2012 INTERNATIONAL BUILDING CODE W/ GA AMENDMENTS 2012 INTERNATIONAL BUILDING CODE W/ GA AMENDMENTS 2012 INTERNATIONAL PULBING CODE W/ GA AMENDMENTS 2011 INTERNATIONAL FILCENCE CODE W/ GA AMENDMENTS 2012 INTERNATIONAL FILCE CODE W/ GA AMENDMENTS 2012 INTERNATIONAL FILCE GAS CODE W/ GA AMENDMENTS
- 2009 INTERNATIONAL ENERGY CONSERVATION CODE W/ GA AMENDMENT
- 2012 NFPA 101: LIFE SAFETY CODE 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN

OCCUPANCY GROUPS: ASSEMBLY: CONCENTRATED USE, WITHOUT FIXED SEATING [NFPA 101]

CONSTRUCTION CLASSIFICATION (IBC TABLE 601)

UNLIMITED (IBC 2012 TABLE 503

JNLIMITED STORY 40'-0" MAXIMUM BUILDING HEIGHT 2 STORY 23'-0" MAXIMUM BUILDING HEIGHT

FIRE RESISTANCE RATINGS - TYPE IIIB (IBC TABLE 601)

0 HOURS 0 HOURS 0 HOURS 0 HOURS 0 HOURS

EGRESS WIDTH FACTOR (NFPA 101 TABLE 7.3.3.1): LEVEL COMPONENTS = .2" PER PERSON EGRESS WIDTH REQUIRED = 16" (36" MIN.) EGRESS WIDTH PROVIDED = 36" MIN. FOR ALL DOORS & HALLV

STAIR WIDTH REQUIRED = 24" (36" MIN.) STAIR WIDTH PROVIDED = 36"

(IBC 1014.3):

EXITS REQUIRED = 1 FXITS PROVIDED = 2 18'-0"



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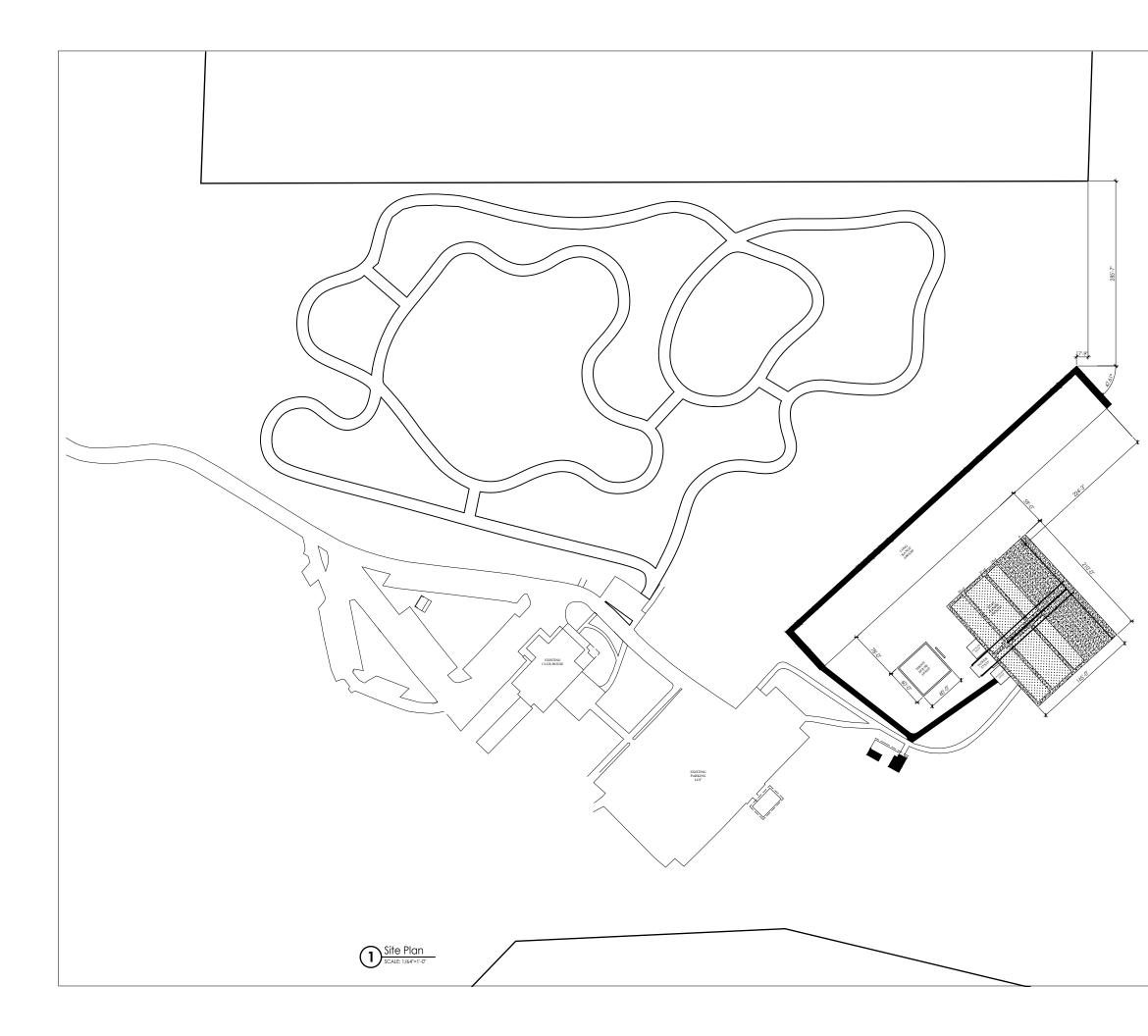
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1464.00

COVER SHEET & PROJECT INFORMATION







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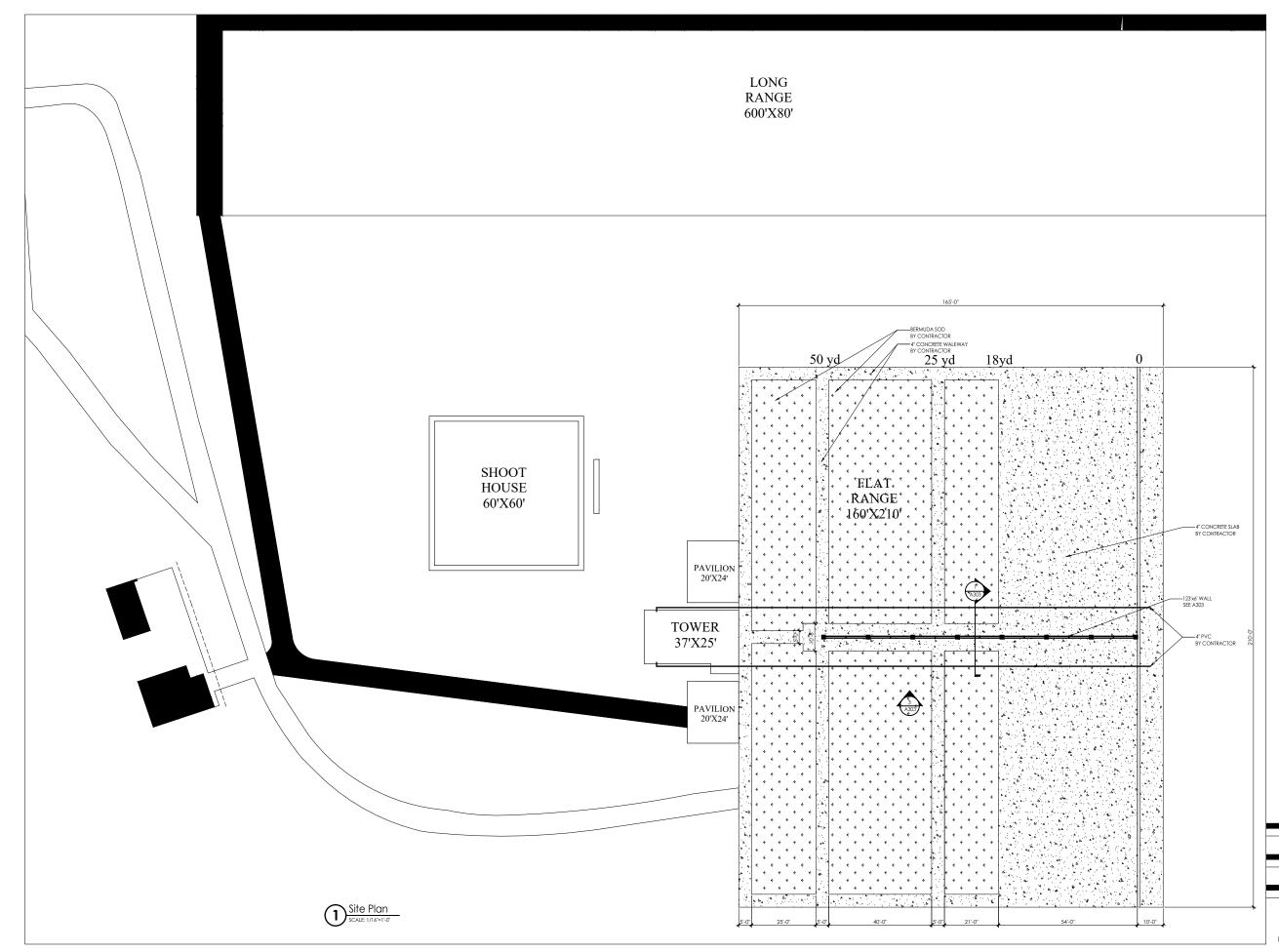
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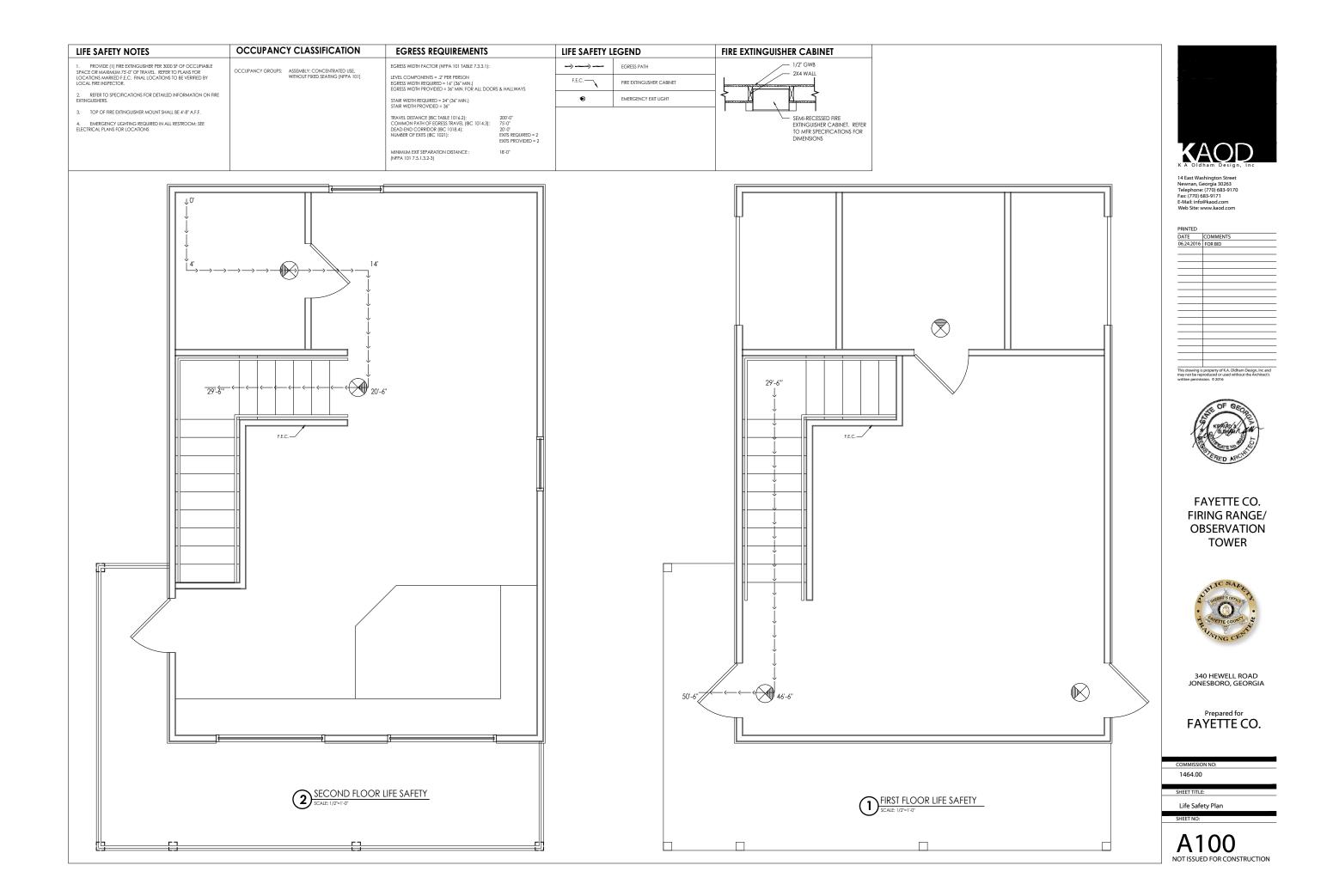
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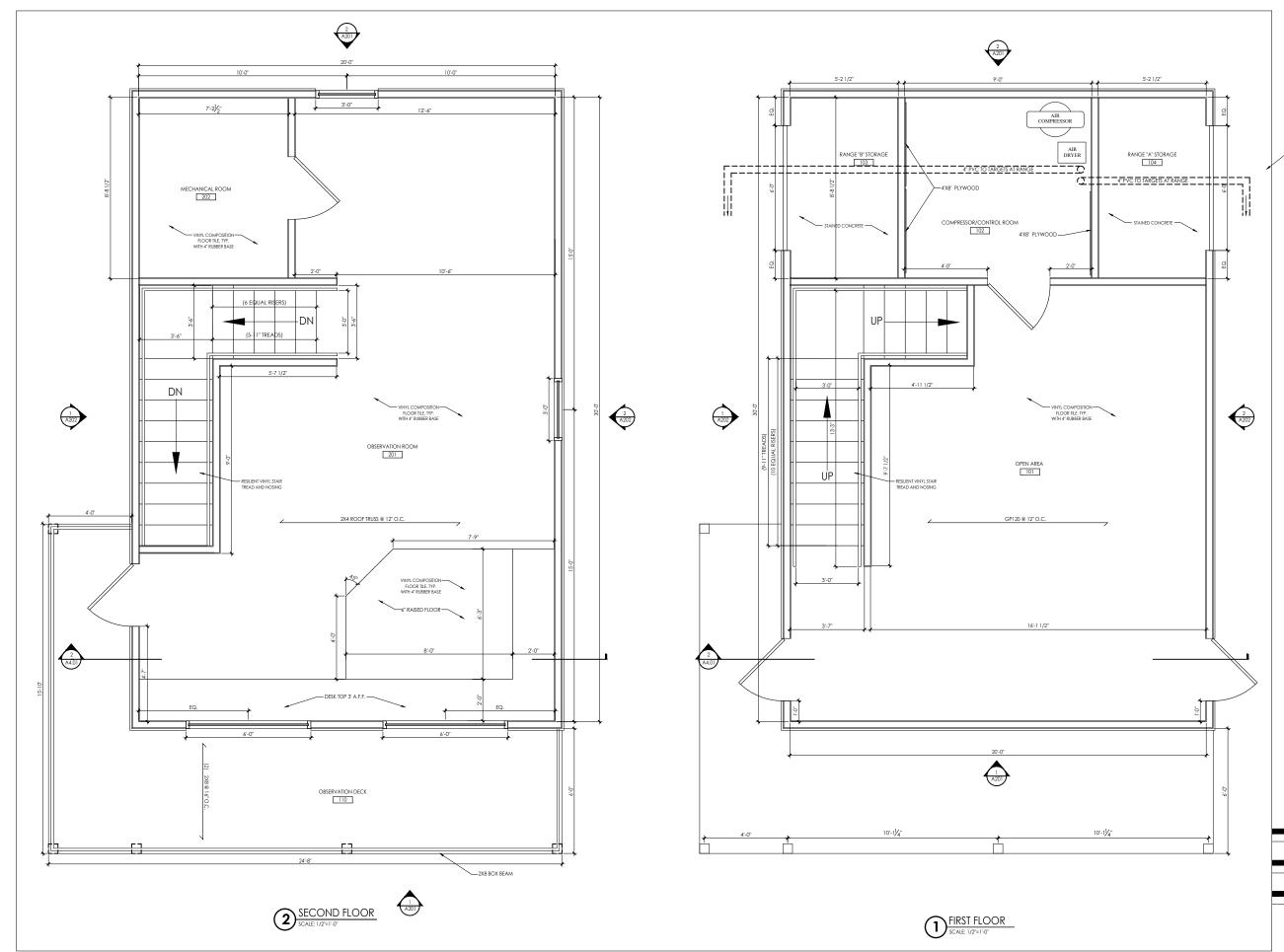
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Site Plan

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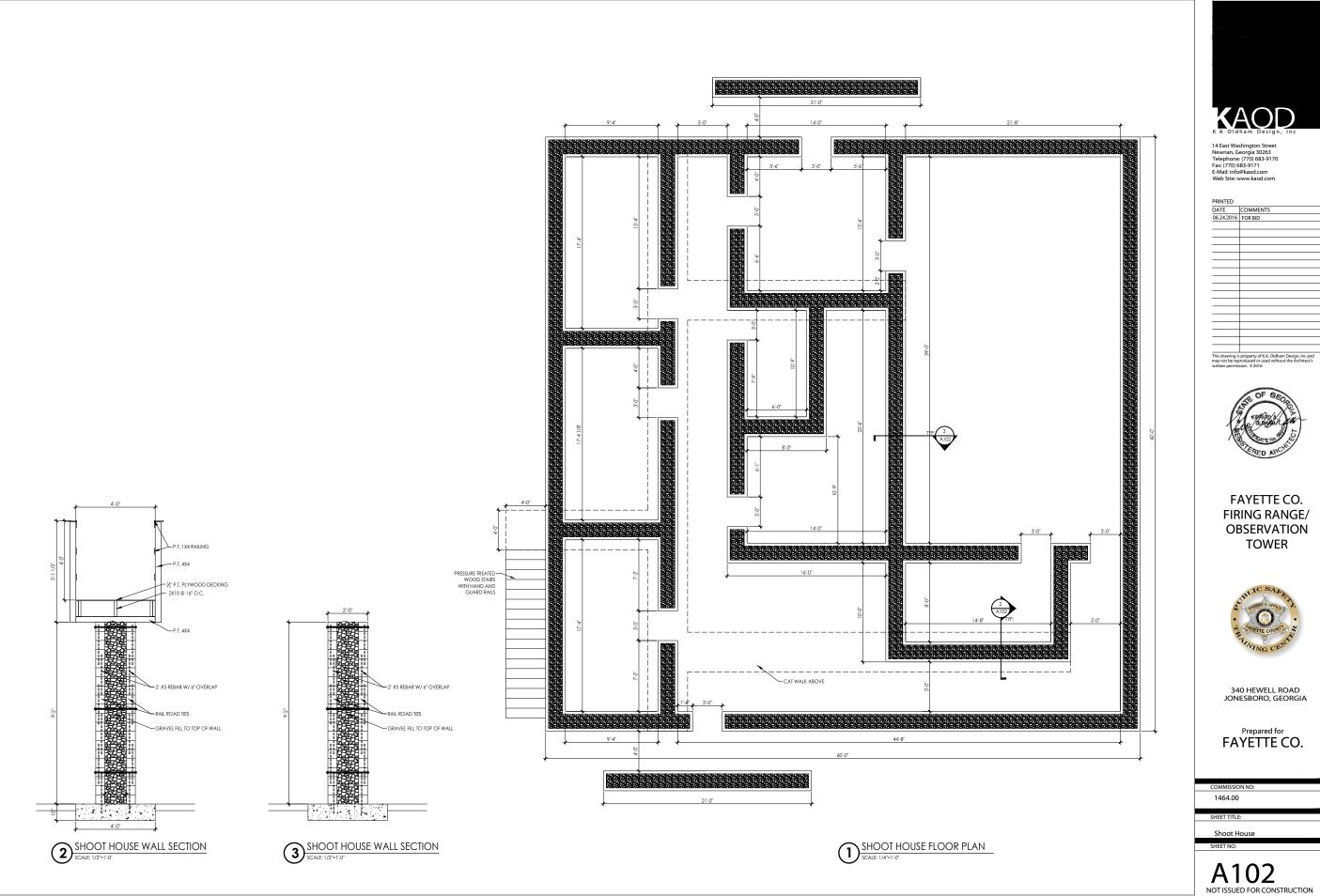
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Floor Plan







FRONT ELEVATION SCALE: 1/2"=1'-0" REAR ELEVATION



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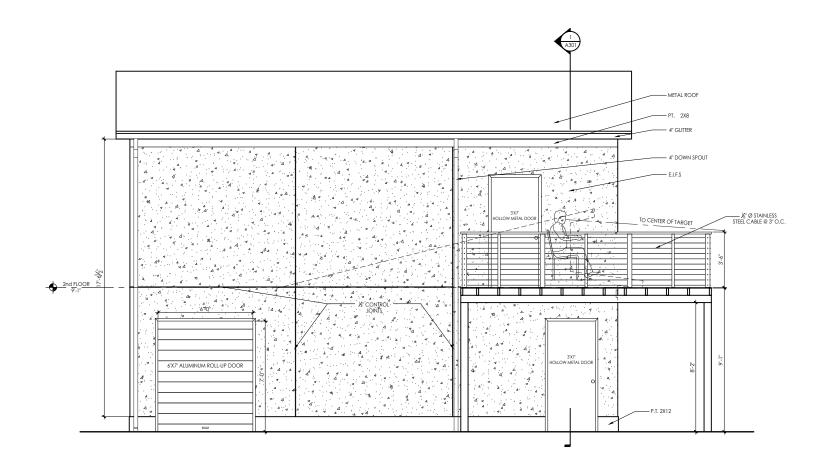
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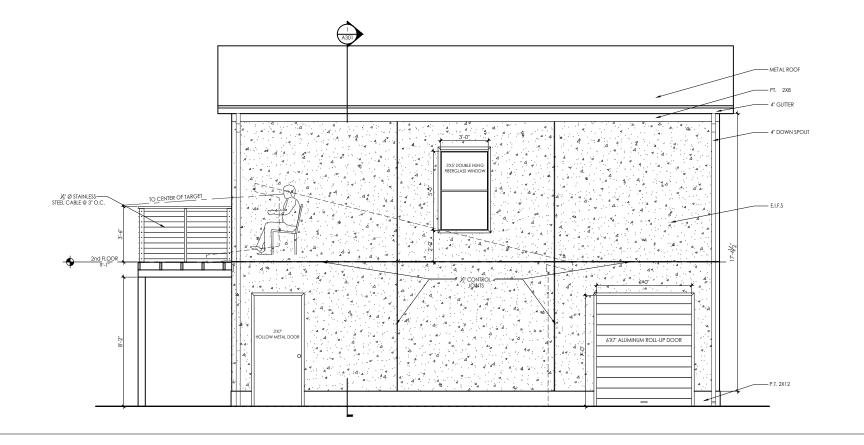
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ELEVATIONS

SHEET NO:











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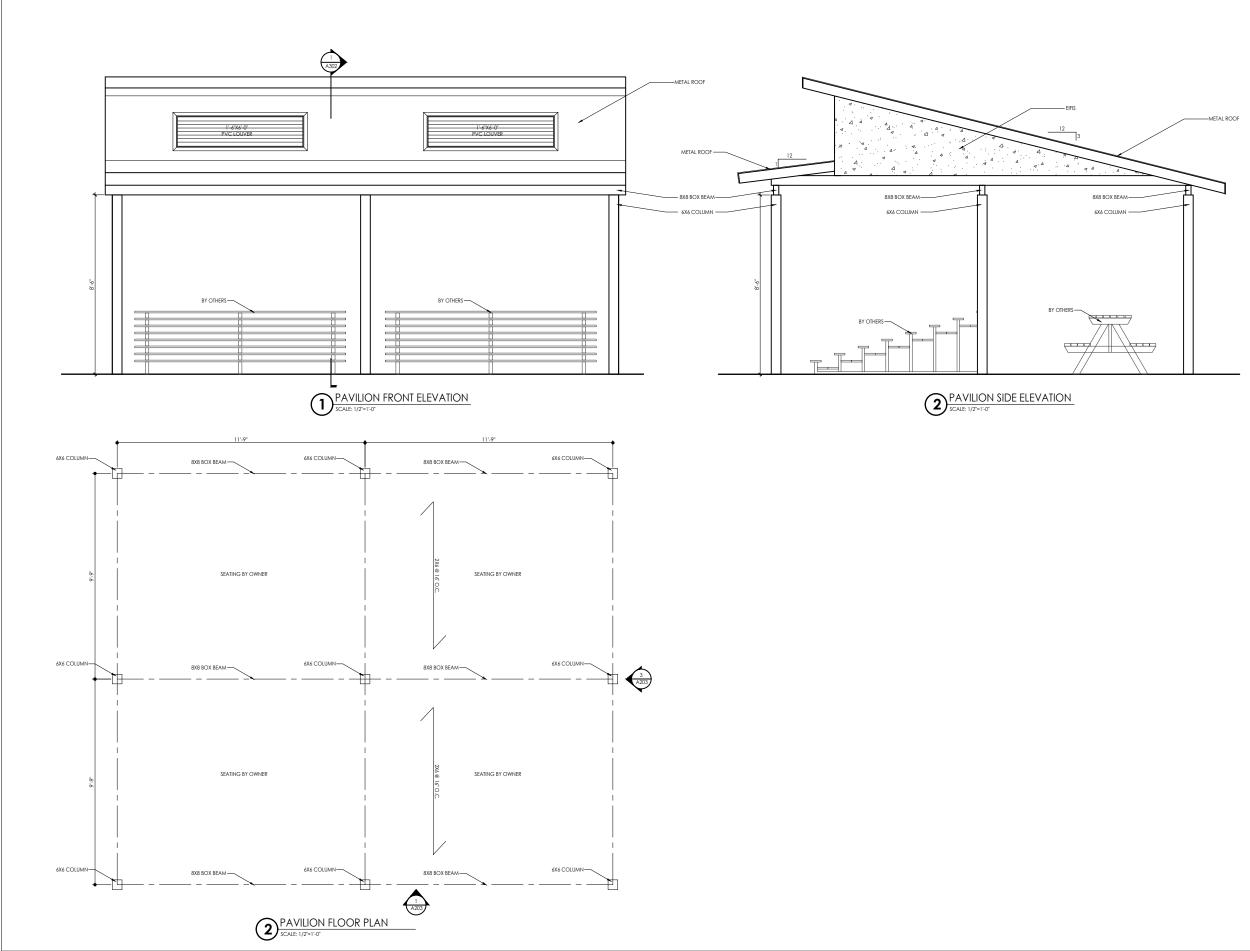
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ELEVATIONS



EAST ELEVATION SCALE: 3/8"=1"-0"





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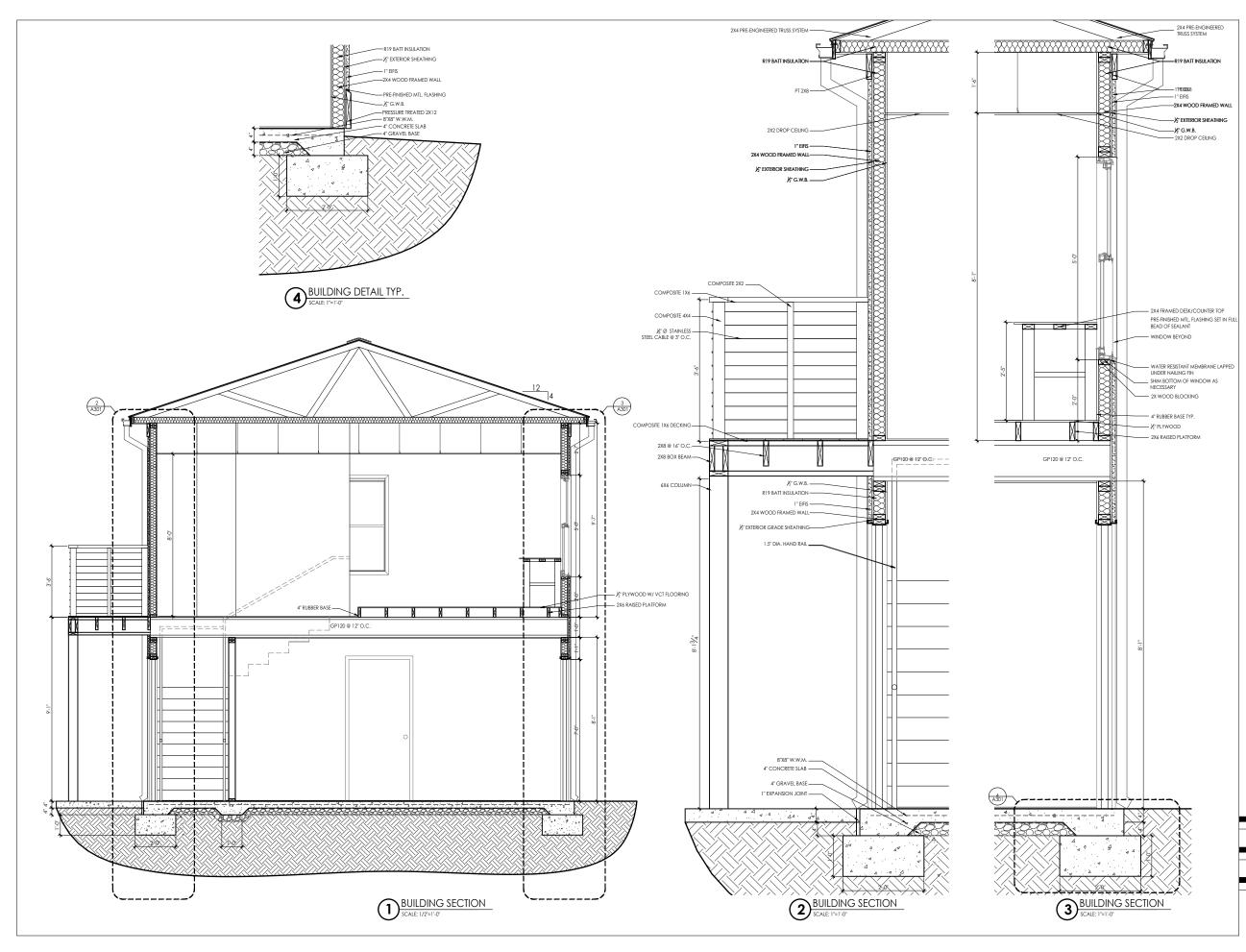
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PAVILION ELEVATIONS







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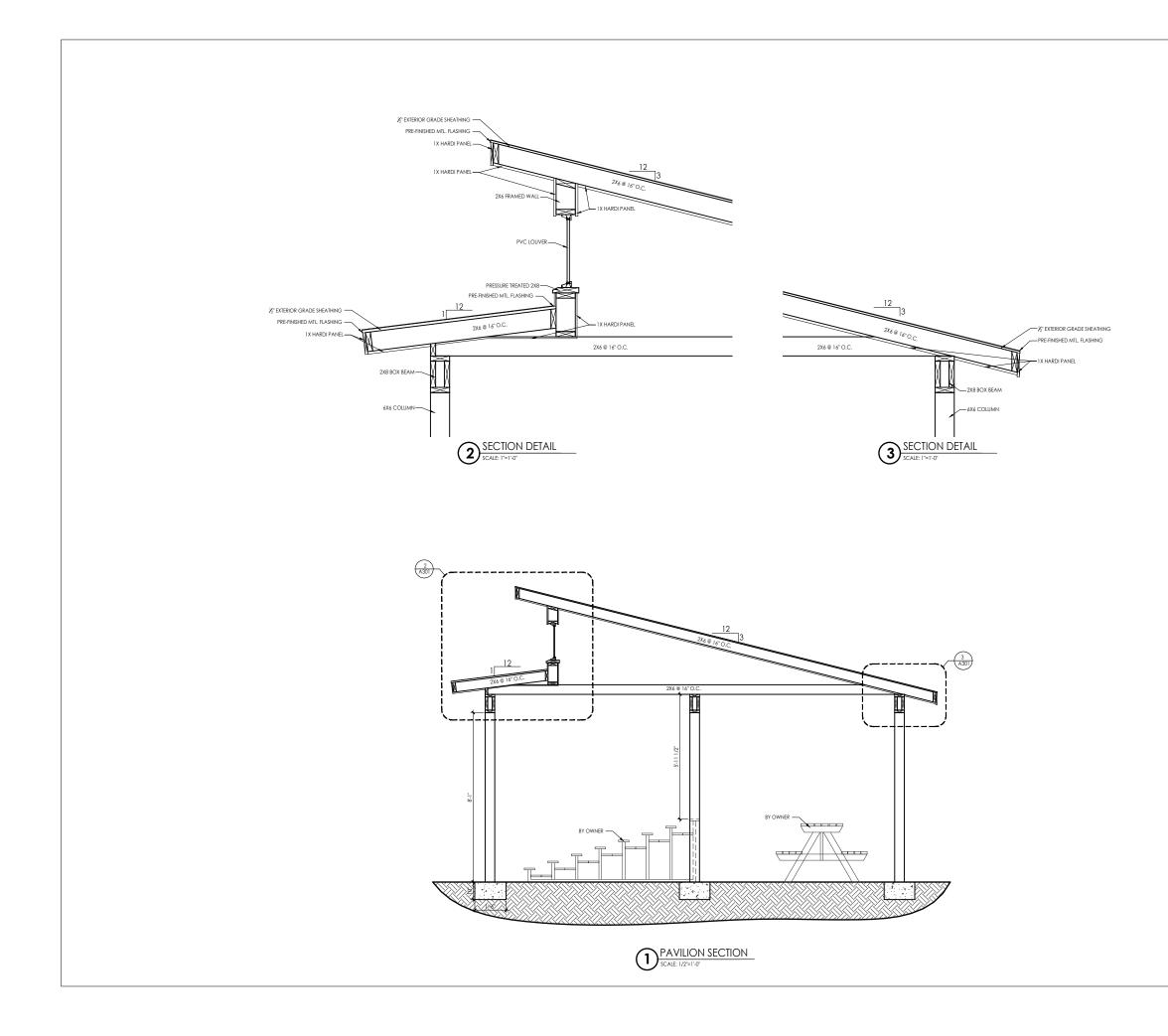
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WALL SECTIONS

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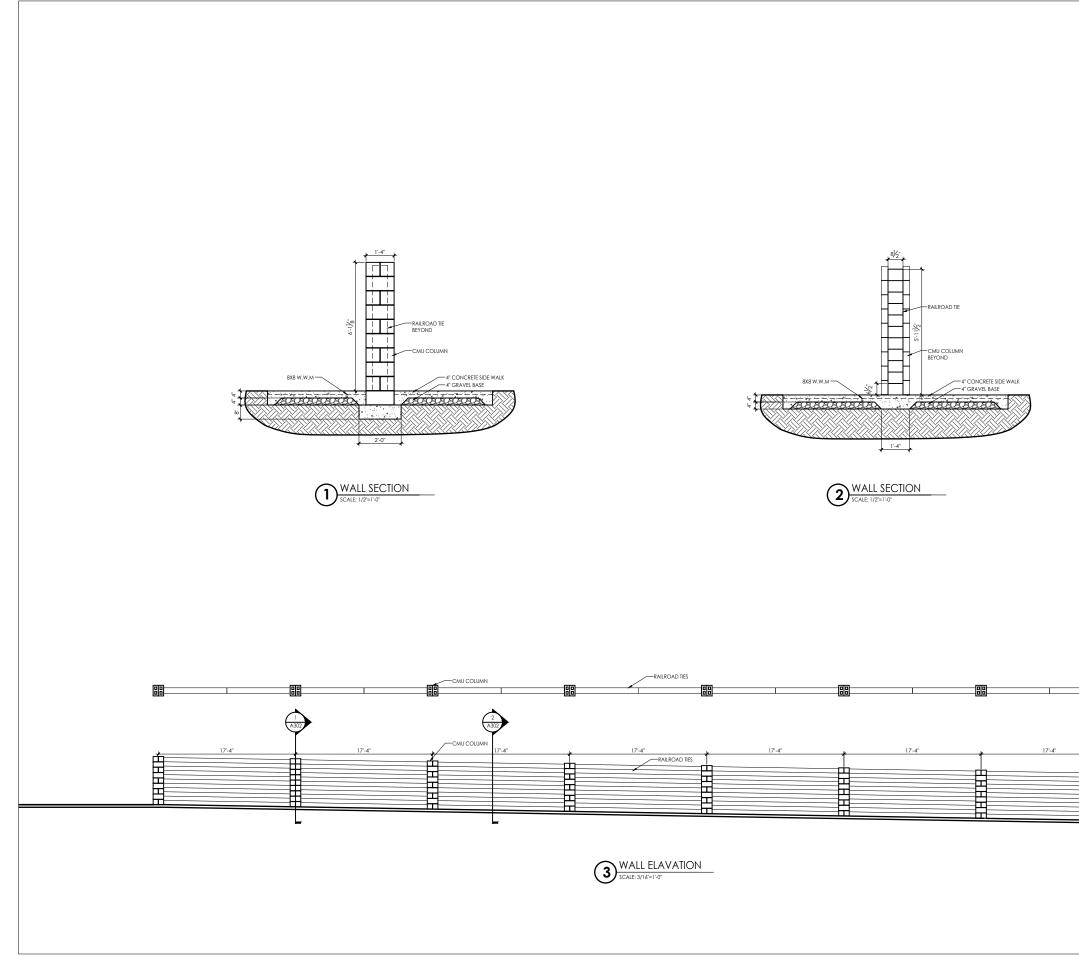
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PAVILION SECTION

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HVAC SPECIFICATIONS

HVAC GENERAL

Refer to all other drawings and specifications, and be responsible for all applicable provisions therein. Furnish and install all necessary labor and materials for a complete system. Any appliances or materials obviously a part of the system and necessary for its proper operation, although not specifically mentioned herein, shall be furnished and installed as if called for in detail. Workmanship and materials shall be in accordance with all state and local codes, NFPA 90A, and the building regulations. Attain and pay for all required permits and fees. Equipment and materials shall be new unless otherwise specified. Mechanical Contractor shall be licensed to handle CFC refrigerants.

Drawings are generally diagrammatic and do not necessarily show every fitting, offset, drop and rise of runs, and detail. Install ducts, equipment, and controls in a neat, workmanlike manner and in accordance with good practice for a complete, workable installation. Avoid conflict with other work; make adequate provisions for preventing noise and vibration. Drawings indicate locations of fixtures, apparatus, ductwork and piping; while these are to be followed as closely as possible, if it is necessary to change the location of same to accommodate building conditions, make changes without additional cost to the Owner and as approved by the Architect. Provide adequate access to equipment and apparatus requiring operation, service, or maintenance within the life of the system. Do not run piping or ductwork, or locate equipment (with respect to

switchboards, panel boards, power panels, motor control centers, or dry type transformers) within 42 inches in front of equipment, over equipment, or within 36 inches horizontally of same space.

COORDINATION

Coordinate all work under this Division with work under other Divisions. Provide adjustments as necessary. Equipment, apparatus, ductwork, piping, etc., installed without regard for the space requirements of other trades will be reworked at the expense of the installing subcontractor if it creates an unnecessary hindrance to the installation of another trade's work. All items mounted at or below the ceiling and any item penetrating the ceiling shall be coordinated with the architectural reflected ceiling plans.

SUBMITTALS

Submit for review five copies of shop drawings on all equipment, grilles and diffusers, automatic control diagrams, ductwork layout, piping layout, and sheet metal construction standards.

TESTING

Refrigerant piping shall be leak tested using nitrogen and refrigerant charge with electronic leak detector. After repairing leaks, retest as required. After leak test, dehydrate by producing and holding vacuum of 2.5 in. hg. Maintain vacuum for 24 hours with maxmum 0.05 in. pressure rise. If leakage exceeds 0.05 in., repeat all of test before dehydration.

All leaks shall be repaired by tightening, re-welding, or replacing pipe and fittings.

Adjust dampers, registers, and diffusers for proper air distribution. Check system under actual operating conditions, and make adjustments for a uniform temperature through the conditioned space.

CLEANING AND ADJUSTING

The exterior surfaces of all mechanical equipment, piping, ducts, etc., shall be cleaned of all grease, oil, paint, and other construction debris. Ducts, plenums, and casings shall be cleaned of all debris and blown free of all particles of rubbish and dust before installing outlet faces. Bearings that require lubrication shall be lubricated in accordance with the manufacturer's recommendations. All control equipment shall be adjusted to the settings indicated or required for performance as specified. Flush water piping systems until water runs clean. Remove all stickers, rust, stains, labels, and temporary covers before final acceptance. Remove foreign matter from equipment, piping and ductwork systems, and appurtenances. Clean and polish identification plates. Remove all trash and debris from the job site on a daily basis.

BALANCING

Contractor shall retain the services of an independent Test and Balance agency. Testing and balancing of the HVAC systems shall be performed in accordance with AABC or NEBB standards.

GUARANTEE

Materials and workmanship shall be guaranteed against defects for one year. Provide additional four years warranty on all compressors.

EQUIPMENT IDENTIFICATION

Provide labels for each equipment, starter and control switch. Labels to be enaraved laminated bakelite nameplates with 1/4-inch high white cut letters; secure to starter or switch.

OPENINGS THROUGH ROOF AND EXTERIOR WALLS

Provide all necessary flashing and counterflashing to maintain the waterproof integrity of this building as required by the removal and/or installation of pipes, ducts, conduits, and equipment. Submit for review to the building management.

HVAC INSULATION

Quality Assurance: Specified components of this insulation system, including facings, mastics, and adhesives, shall have a fire hazard rating not to exceed 25 for flame spread and 50 for smoke developed rating, as per tests conducted in accordance with ASTM E84 (NFPA 255) methods.

Pipe Insulation:

TYPE P1 ASTM C534: Flexible, closed cell elastomeric, nominal 6 P.C.F. density, K factor 0.27 maximum at 75 degrees F mean, plenum rated.

Approved products: Armstrong AP Armaflex, Manville Aerotube II, Nomaco Therma-Cel, Rubatex R-180-F5. Duct Insulation:

TYPE D1 ASTM C553 TYPE 1, CLASS B3: Fiberglass, nominal 1 (one) P.C.F. density blanket, K factor 0.31 maximum at 75 degrees F mean, with factory-applied FSK (Foil-Scrim-Kraft) vapor barrier jacket. for temperatures to 250 degrees F.

Approved products: CertainTeed "Standard Duct Wrap", Manville "Microlite", Owens/Corning Fiberglass RFK-75, Knauf "Ductwrap".

HVAC INSULATION (CONTINUED)

TYPE D2: Fiberglass, nominal 2.0 P.C.F. density liner, K factor 0.26 maximum at 75 degrees F mean, black coating, for temperatures to 250 degrees F.

Approved products: CertainTeed Ultralite Duct Liner 200, Manville Linacoustic, Knauf Duct Liner M.

Installation of Pipe Insulation:

Install insulation on pipe systems subsequent to testing and acceptance of test.

Maintain integrity of vapor-barrier jackets on pipe insulation, and protect to prevent puncture or other damage. Seal open ends of insulation with mastic. Sectionally seal all butt ends of all cold water piping insulation at fittings with white vapor barrier coating.

Cover valves, flanges, fittings, and similar items in each piping system with equivalent thickness and composition of insulation as applied to adjoining pipe run. Install factory-molded, precut or job-fabricated units (at Installer's option). Finish cold pipe fittings with white vapor barrier coating and hot piping with white vinyl acrylic mastic, both reinforced with glass cloth.

Extend piping insulation without interruption through walls, floors, and similar piping penetrations, except where otherwise indicated.

Installation of Ductwork Insulation:

Maintain integrity of vapor-barrier on ductwork insulation, and protect it to prevent puncture and other damage. Tape all punctures. Secure all ductwork with galvanized wire 12 inches O.C. Secure ductwork with outward clinching staples. Seal all longitudinal and circumferential joints with FSK tape.

Extend ductwork insulation without interruption through walls, floors, and similar ductwork penetrations, except where otherwise indicated.

Do NOT omit insulation on supply and return ductwork where internal insulation or sound-absorbing lining is installed.

All internal insulation shall be adhered to the duct with 100% coverage of approved fire-retardant mastic. All edges shall be sealed and any abrasions or tears repaired with mastic.

Increase indicated duct sizes to compensate for liner thickness.

Insulation Requirements:

Refrigerant Gas Piping: TYPE P1, 1/2-INCH THICKNESS

Interior Condensate Drain Piping: TYPE P1, 1/2-INCH THICKNESS

Ductwork, Supply and Return Air: TYPE D1, 2-INCH THICKNESS

Ductwork, Rectangular Supply and Return within 6 feet of fan-coil unit: TYPE D2, 1-INCH THICKNESS SHEET METAL WORK

Except as otherwise noted, all ductwork and other sheet metal work shall be installed in accordance with latest edition of the Sheet Metal and Air Conditioning Contractor National Association. Inc. (SMACNA). HVAC Duct Construction Standards manual. Ductwork shall be galvanized sheet steel, unless otherwise noted. Fiberglass ductwork is NOT acceptable.

Minimum ductwork static pressure construction shall be 2-inch W.G. All ducts shall be seal Class "C".

Volume Dampers: Same material as duct, per SMACNA, except provide bearing at one end of damper rod and quadrant with lever and lockscrew at other end. For insulated ducts, quadrants mounted on collar shall clear insulation; install with levers accessible outside insulation. Balancing dampers shall be the opposed blade type.

Flexible Connections: Neoprene-coated glass fabric, 30 oz. per square yard with sewed and cemented seams, similar to vent fabrics. Provide flexible connections between all equipment and rigid ductwork. Fabric connections shall be at least four (4) inches long and have metal collar at each end; allow at least one-inch slack to eliminate vibration transmission.

Turning Vanes: Galvanized steel, single thickness vanes with minimum 2-inch inside radius. All square elbows shall have turning vanes.

Duct sizes shown are clear inside dimensions. Where internal insulation is called for, dimensions shall be increased by thickness of insulation.

Portions of ductwork visible through supply and return air openings shall be painted flat black.

Transition rectangular ductwork on the bottom and the sides. Maintain ductwork level and as high as possible unless noted otherwise.

All branch ductwork shall be sized to match the inlet of the diffusers or grille served. Flexible duct runouts may NOT be used in inaccessible locations.

All duct transitions from square to round shall be smooth square-to-round transitions. Spin-in fittings at the end of capped ducts are not acceptable.

All exposed ductwork shall be spiral seam sheet metal with paint-grip finish. Exposed ductwork will be painted in a color as directed by the architect.

Where exposed ductwork penetrates a wall, provide 2" wide sheet metal escutcheons to trim the wall opening. PIPING

General: Piping shall be complete with pipe fittings, valves, couplings, hanger rods, hangers, supports, guides, sleeves, and accessories in conformance with the latest codes and ASME, ANSI, ASTM. and MSS Standards.

For pipe sizes not indicated on plans, see manufacturer's equipment connection details.

Avoid entry of foreign matter into piping during construction. After completion of piping, flush water system with water until clear.

Provide minimum pitch to insure adequate venting and drainage.

PIPING (CONTINUED)

Piping Material:

Condensate discharge piping shall be schedule 40 PVC. Fittings:

Trap seal in condensate drain piping shall be minimum one inch greater than the static pressure in system. Refrigerant liquid and suction lines shall be sized per manufacturer's recommendations.

AIR DISTRIBUTION DEVICES

Diffusers, registers, and grilles shall be as scheduled on the drawings, Titus models noted, or equal. Ceiling diffusers shall be 4-way throw, unless shown otherwise on drawings. All diffusers and registers shall be furnished with opposed-blade dampers. Exact location of all ceiling-mounted diffusers, grilles, and registers to be coordinated with lighting layout and reflected ceiling plan. EQUIPMENT

Split system heat pumps: Direct expansion split system heat pump units consisting of an outdoor, air cooled heat pump unit and an indoor fan-coil unit complete with direct-driven centrifugal blower assembly, evaporator coil with drain pan, electric resistance heating coil and inlet filter rack with filter. Fan-coil units shall be designed for bottom inlet and shall be mounted on minimum 20" high return air plenums. Capacities shall be as scheduled on the drawings. Units shall be provided with a seven day programmable wall thermostat with "FAN ON-AUTO" control. Split system air conditioning units shall be Carrier, as scheduled, or approved equal.

AUTOMATIC CONTROLS

The intent of this section is to obtain a complete, functional control for all mechanical equipment, systems, and devices of the project. This Contractor is to furnish and install, as required, electric/electronic or pneumatic controls, all necessary components, control wiring, interlock wiring, contactors, relays, control transformers, alarms, control valves, etc., to achieve the desired control operation for the air conditioning systems.

cable.

Sequence of Operation:

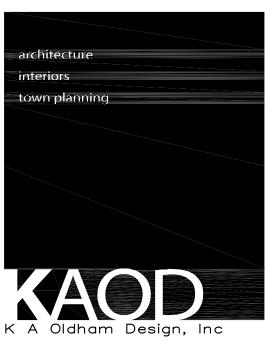
Each split system heat pump shall be controlled by a wall mounted commercial seven-day programmable thermostat with automatic changeover from heating to cooling. When the system is in the occupied mode, the blower shall run continuously. In the unoccupied mode, the blower shall cycle with the heating or cooling.

Refrigerant piping shall be copper ASTM #B280, factory cleaned, nitrogen charged, and capped.

Where piping of any type penetrates or exits a wall, provide a one-piece chrome-plated pipe escutcheon to trim the wall opening. This requirement applies to all new and existing pipes.

Control Wiring: Shall be #12 CU. THHN installed in EMT conduit (minimum 1/2-inch diameter) or plenum-rated

Automatic Dampers: Automatic dampers shall be similar to Ruskin Model CD40. Automatic damper shall be factory-fabricated and sized, and provided by control manufacturer.



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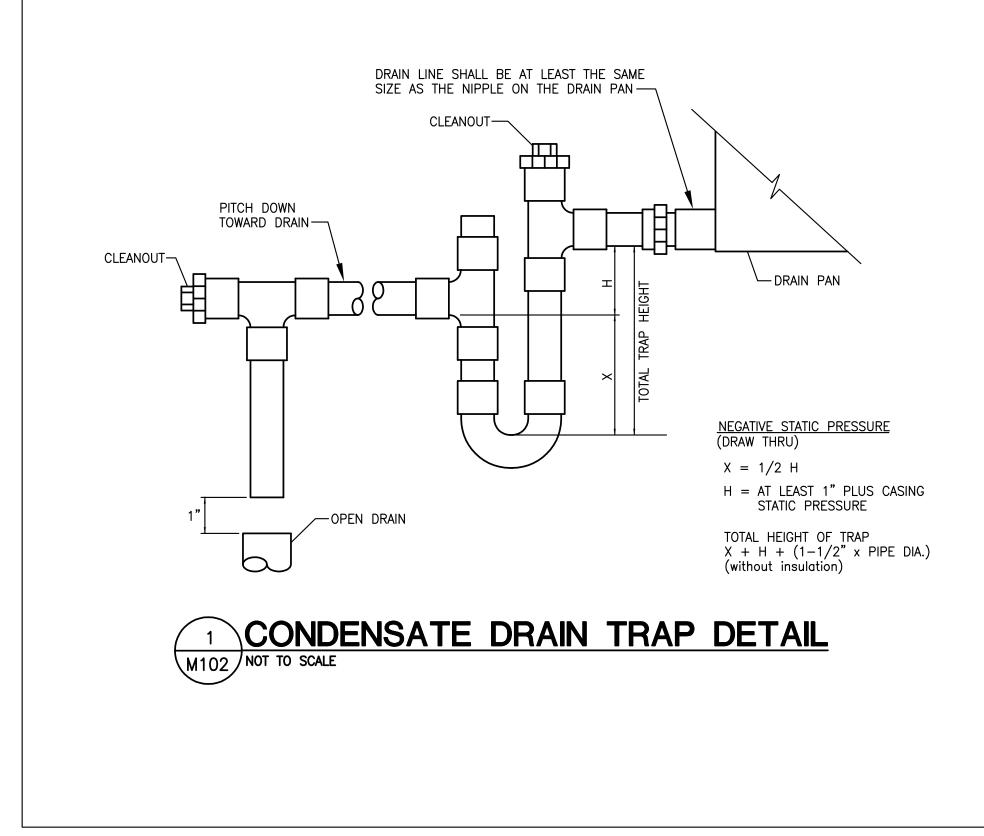
HVAC SPECIFICATIONS

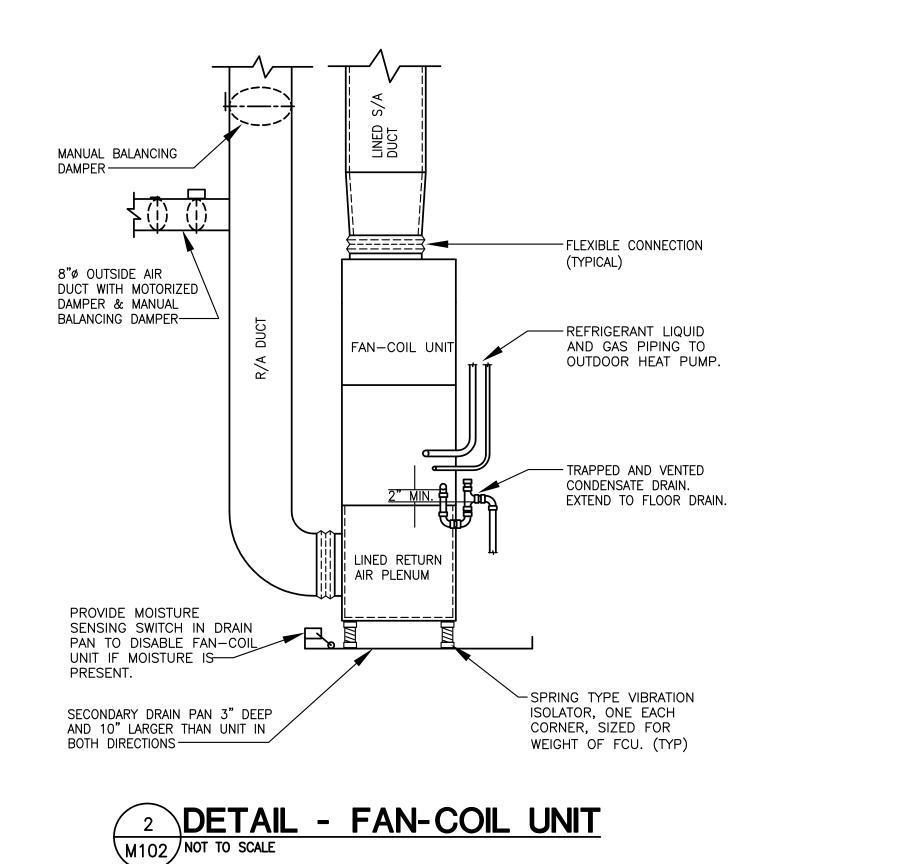
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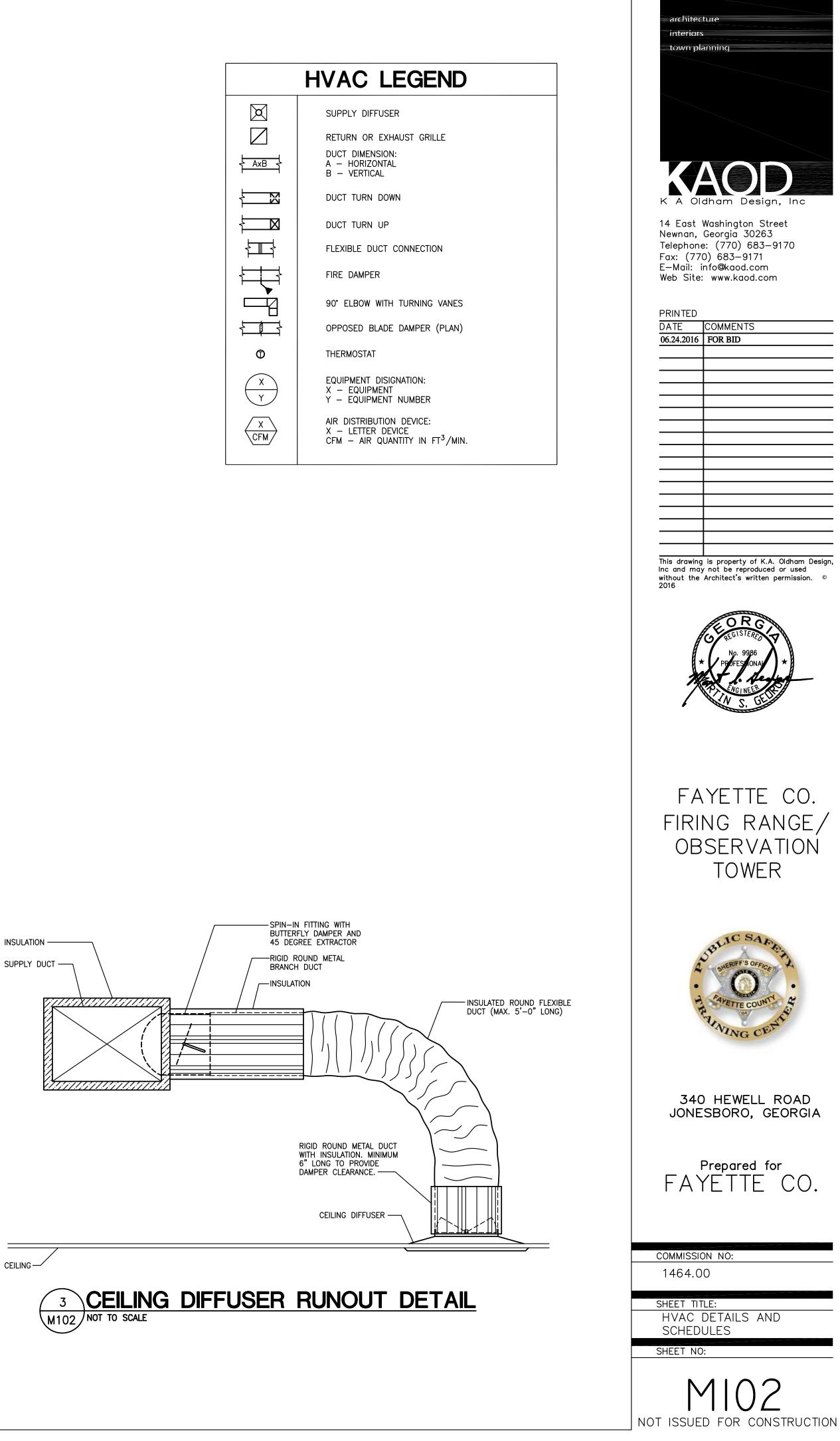
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						SPL	_IT S	SYS	TEM HE	AT P		S						
						INDOOR UI	NIT							OUTDO	OR UNIT			
	AIR FLOW DATA				COOLING DATA				HEATING DATA				AMBIENT	AMBIENT				
SYMBOL	SUPPLY	O.A. CFM	E.S.P.	MAX.	TOTAL	SENSIBLE	EAT 'F		REFRIG. HEAT	ELECTRIC	MODEL	SYMBOL	AIR TEMP	AIR TEMP	SEER	HSPF	MODEL	REMARKS
	CFM		IN. W.G.		MBH	MBH	DB	WB	AT 47°F AMBIENT BTUH	HEAT KW			(COOLING)	(HEATING)				
FCU-1	600	80	0.70	1/2	17.8	12.8	80	67	17,800	3.8	CARRIER FV4CNF002	HP-1	95 ° F	47°F	14.0	8.2	CARRIER 25HCE418	
FCU-2	760	80	0.70	1/2	20.4	15.3	80	67	22,000	6.0	CARRIER FV4CNF002	HP-2	95 ° F	47 ° F	14.0	8.2	CARRIER 25HCE424	

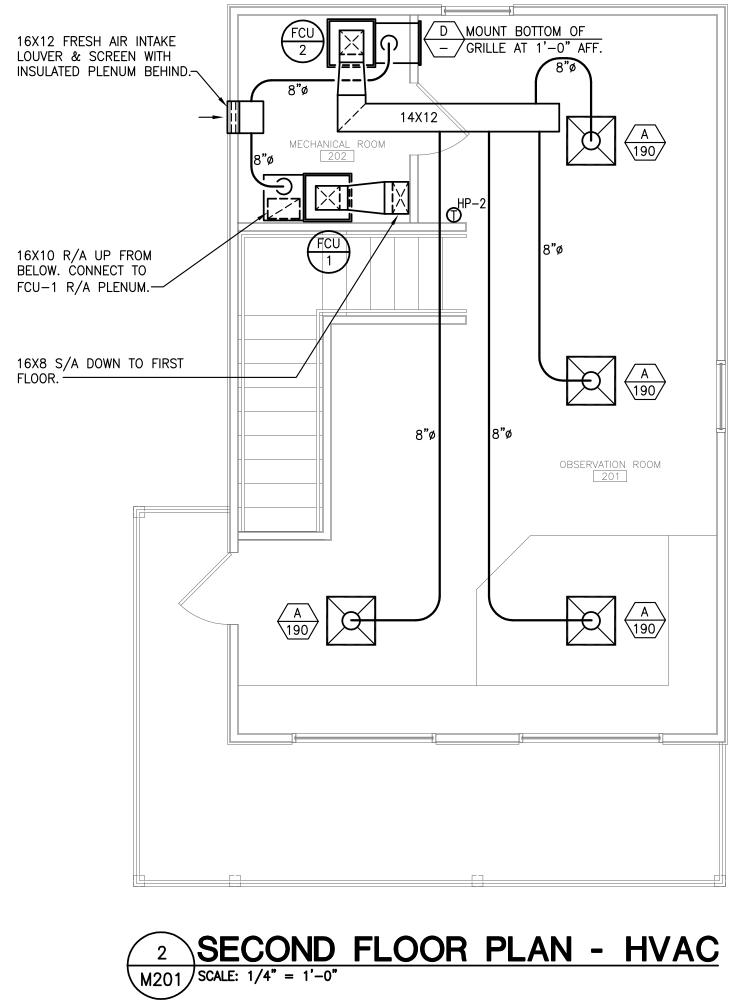
	AIR DISTRIBUTION DEVICES						
MARK	TYPE	NECK SIZE	OBD	FINISH	MODEL	REMARKS	
А	LAY-IN CEILING DIFFUSER	8"ø	YES	OFF-WHITE ENAMEL	PRICE SCD-31-3C, 24X24 LAY-IN		
В	SIDEWALL SUPPLY REGISTER	12X6	YES	OFF-WHITE ENAMEL	PRICE 520D-F-S-A		
С	SIDEWALL SUPPLY REGISTER	14X6	YES	OFF-WHITE ENAMEL	PRICE 520D-F-S-A		
D	RETURN AIR FILTER GRILLE	20X20	NO	OFF-WHITE ENAMEL	PRICE 530FF-SM-L	WITH 1" PLEATED MERV-11 FILTER	

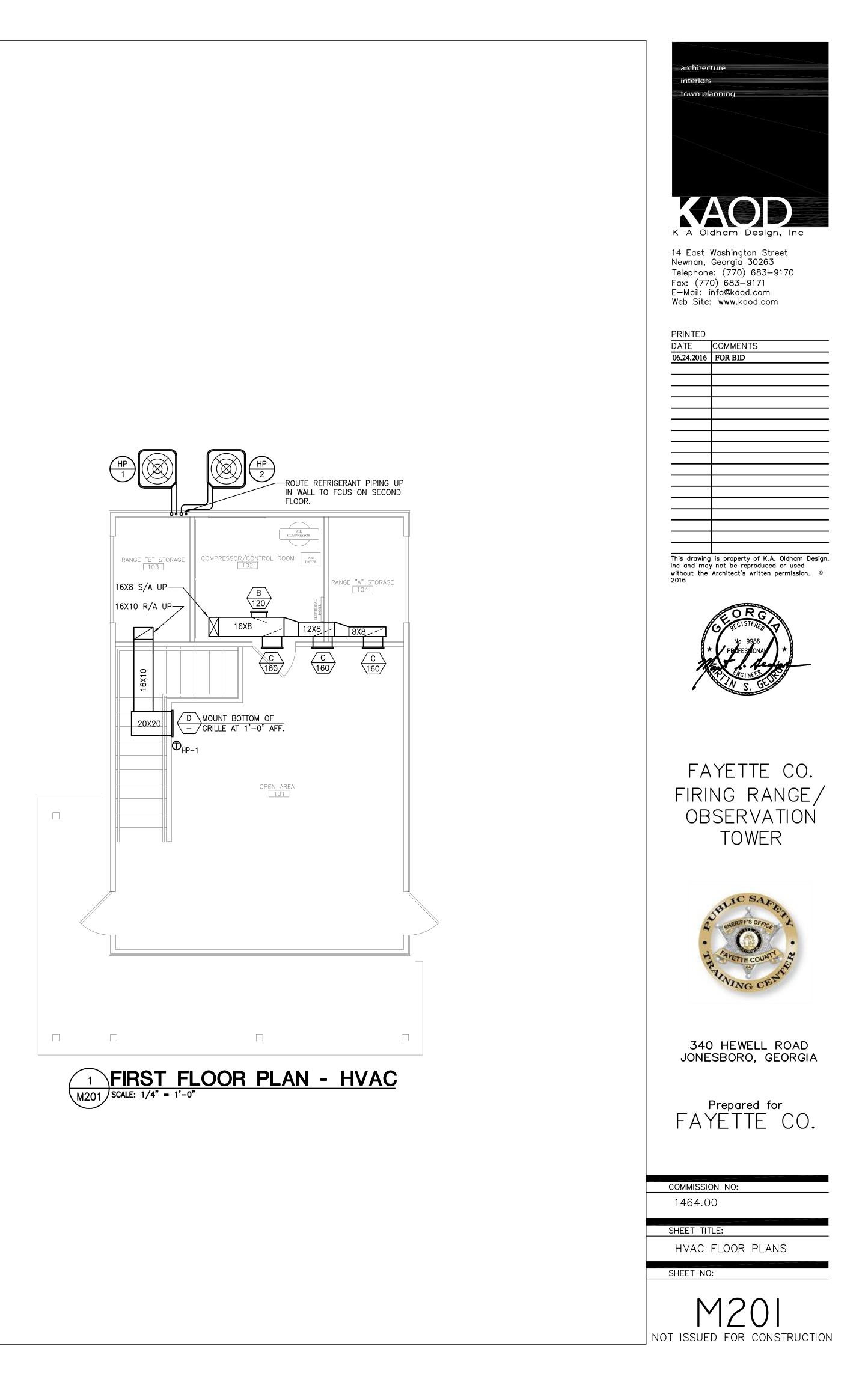


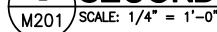












#	Rv #	ELECTRICAL CRITERIA - GENERAL CONDITIONS	Che O
EC- 01	-	PERMITS & FEES: Secure & pay for all fees, licenses, permits, inspections. <u>Submit Copy</u> Of Each Permit	
EC- 02	-	LICENSE(S)-BUSINESS: This Contactor Shall Be Properly Licensed Business Wise, In This Project State, In Accordance With All Applicable State Laws. <u>Submit Copies</u> Of Business License(s).	
EC- 03	-	BONDING & INSURANCE(s): This Contactor Shall Be Properly Bonded And Insured In Accordance With The General & Supplements Requirement Of The Project Document. <u>Submit Copies</u> Of All Such Documents.	
EC- 04	-	COORDINATION OF OTHER TRADES- This contractor is responsible for coordinating with all other trades for the proper installation of this work, maintaining required clearances, and confirming the electrical characteristics and requirement of electrical power equipment of other trades (prior to ordering equipment). <u>Submit Copies</u> Of All Such Documents.	
EC- 05	-	MANUFACTURERS, ALTERNATES & SUBSTITUTIONS- Components & products are to be provided matching the prescribed characteristics, features, performance, types, etc. based on the Manufacturer & Series as given. <u>NO After-"Bid" Alternates, Changes Or Substitutions Accepted Or Allowed</u> . Prior-To-Bid Request For Acceptance Must Be Submitted To Architect & Engineer NO-LESS Than Two-Business-Weeks Prior To Bid Date. Request-For-Acceptance Must Include Complete & Marked Product Data Indicating Full Matching Compliance. Any Variations Must Be Marked & Noted. Acceptance Will Be At The Description Of The A/E Judgment.	
EC- 06	-	SUBMITTALS- Provide compete submittals on all items. Mark & indicate specific items to be used. Submit prior to finalizing orders. Submit three sets min., or per General Conditions.	
EC- 07	-	WARRANTY- This contractor shall warrant all materials, labor & installation for one full year from date of Substantial Completion. Any extended product warranties shall be passed onto the owner.	
-	-	End Of Electrical Criteria - General Conditions	

#	Rv #	ELECTRICAL CRITERIA - BASICS CRITERIA	Check Off
EB-		GENERAL- Provide a complete electrical system, left in proper working order. Provide	
01	-	herein means installed completely, including labor & materials.	
		LICENSE(S)-ELECTRICAL: This Contactor Shall Be Fully Licensed To Perform Electrical	
EB-		Work, In This Project State, For The Type Of Work To Be Performed In Accordance With All	
02		Applicable State Laws. Submit Copies Of Electrical License(s).	
		CODES - Meet & comply with all Federal, State, County & City Codes Including 2014 NEC	
EB- 03	-	(NFPA-70); ICC-IBC 2012 & Ga Amendments 2014 & 2015; ICC-IEC 2009 & Ga Amendments	
05		2011 & 2012.	
EB-		PERMITS & FEES: Secure & pay for all fees, licenses, permits, inspections. <u>Submit Copy</u>	
04	-	Of Each Permit	
		COORDINATION OF POWER UTILITY- Coordinate & verify, in writing, with the utility power	
EB-		company, confirming the electrical power arrangements, characteristics (Voltage, Phase,	
05	-	Transformer Type & KVA, Fault-Current, Etc), metering arrangement and equipment	
		locations. Copy Own/ Archt/ Engr.	
EB-		COORDINATION OF LV COMMUNICATIONS UTILITY- Coordinate & verify, in writing, with the	
ЕВ- 06	-	LV Communications Utility Company, confirming the LV Com Service routing, conduit quantity	
00		& sizes, termination locations, and other related requirements.	
		PROVISIONS TO BE INCLUDED- Labor, supplies and materials, tools, equipment, etc.;	
EB-		installation of all electrical equipment & connections; coordination with other trades; material	
сы- 07	-	shipping, delivery, receiving, storage, & protection; excavation, backfilling, cutting, patching	
07		and cleaning; guarantee for one year, plus any extended manufacturer's warranties; as-built	
		reproducible Mylar record documents.	
		MATERIALS- All materials shall be new, currently manufactured, U.L. labeled, and meet all	
EB-		industry standards. Label all equipment. Provide 3000 PSI class concrete for bases and	
08	-	backfill. Provide 3/4" thick A/D fire retardant grade backboards. Provide all support hardware	
00		and systems for electrical work. Fire/smoke seal each penetration of any rated barrier (floor,	
		wall, etc.).	
		MOTORS & CONTROLS- Motors are furnished and installed under other specification	
EB-	_	sections. Control and interlock wiring is furnished and installed under other specification	
09		sections. Individually mounted starters are furnished under other sections, mounted and	
		power wiring connections provided under this section.	
		ELECTRICAL CONNECTIONS- Provide power wiring complete to all items. Coordinate actual	
EB-	_	equipment characteristics with drawing. Provide backboards for equipment mounting. Label	
10		all equipment and over-current protective devices with equipment name, voltage, ratings,	
		and O.C.P. ratings.	
EB-		INSTALLATION STANDARDS: All electrical work shall be installed in accordance with the	
11	-	NEC, NEIS (Nat. Electrical Installation Stds.), related codes and the manufacturer's published	
		requirements.	
-	-	End Of Electrical Criteria - Basic Materials & Methods	
#	Rv #	ELECTRICAL CRITERIA - BONDING & GROUNDING	Check Off
EG-	-	BONDING & GROUNDING GENERAL: Provide components, conductors, fittings and	
EG- 01	-	hardware to provide for an electrical system that is completely bonded and grounded with	
UI		the NEC and these requirements	
EG-		GENERAL REQUIRMENTS: Provide for the complete Bonding & Grounding of the entire	
02	-	electrical system, including bonding for communication systems.	
		PLIL DINC PONDINC: Dravide for the Bending tegether of all metallic eveteme in the facility	

		the NEC and these requirements	
EG-	_	GENERAL REQUIRMENTS: Provide for the complete Bonding & Grounding of the entire	
02		electrical system, including bonding for communication systems.	
EG- 03	-	BUILDING BONDING: Provide for the Bonding together of all metallic systems in the facility, including but not limited to, structural steel, slab rebar, water piping, fire-protection piping, gas piping, HVAC system piping.	
EG- 04	-	SUBMITTALS- Provide compete submittals on all items. Mark & indicate specific items to be used. Submit prior to finalizing orders. Submit three sets min., or per General Conditions.	
EG- 05	-	GROUNDING IN-GRADE CONDUCTORS: Bare, Tin-Plated Copper Of Size & Rating As Scheduled or Required.	
EG- 06	-	BONDING & GROUNDING CONDUCTORS:- #10 and smaller - solid copper THHN/THWN Green Jacket Color; #6 & 8 - stranded copper THHN/THWN black jacket; #4 & larger - stranded copper THHN/THWN identified with Green Tape.	
EG- 07	-	CONNECTIORS, IN-GRADE TYPE: UL Labeled for the application, location & use. Heavy- Duty Pure Wrought Copper fitting & devices. Compression type connections. BURNDY HYGROUND Series or Equivalent.	
EG- -08	-	CONNECTIONS, COPPER- Twist on type for #8 and smaller copper conductors. Set screw/bolted type for #4 and larger copper conductors. Completely insulate each connection, splice, termination.	
EG- 09	_	GROUND RODS (ERITECH 683400 Rod): Provide 10 Foot Long, 0. 75 In Diameter, Tin-On- Copper 10 Mil. Plated Steel Pointed Ground Rod, driven into earth with top 18 Inches below finished grade with inspection/ test well cover, top flush with grade. ANSI/UL-467 & ANSI/ NEMA-GR1. Mechancial Direct-Burial Ground Connector or Exothermic-Weld all ground cables to rods.	
EG- 10	-	GROUND ROD INSPECTION WELLS/ ERITECH Wells - Where indicated or required, provide Ground Rod Inspection/ Test Well & Cover, top flush with grade.	
EG- 11	-	MASTER GROUND BAR (MGB) (BURNDY BBB or ERICO TGB/TMGB)- Provide bare solid Alloy 110 Cu bus bar, electro-tin-plated, with pre-punched holes for two-bolt ground lugs, mounted on stainless steel brackets with insulated flame-resistant stand-offs. 0.25 Inch Thick, 4 Inch High, 20 Inch Long. UL 467 & C22.2 Listed. Anchor to structural wall at height as indicated or noted. Connection to this bar shall be by two-hole bolt lugs, exothermic welded or irreversible crimp connected to the respective cable. Locate at or near the electrical service main disconnect. Label MASTER GROUND BAR	
EG- 12	-	ISBT (Inter-System-Bonding-Termination) GROUND BAR (ISBT) (ILSCO PET or Equal): Provide dual-rated, 8-hole lug with 2-predrilled mounting holes. Attach to each TELCO backboard for bonding of LV systems by others. Label ISBT GRND.	
EG- 13	-	INSTALLATION STANDARDS: All bonding & grounding shall be installed in accordance with the NEC, NEIS (Nat. Electrical Installation Stds.), related codes and the manufacturer's published requirements.	
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End Of Electrical Criteria - Bonding & Grounding

ER. ENERGAL-All withing for power and systems shall done in accordance GeneRAL All withing for power and systems shall done in accordance GeneRAL LADERGROUND-All underground, in-slab, extinoir and used. Submit prior to inalizing orders. Submit three sets min, or pe GENERAL CONCEALED All wings shall be inconcelled where pose GENERAL CONCEALED All wings shall be inconcelled where pose GENERAL CONCEALED All wings shall be inconcelled where pose GENERAL EXPOSED. Exposed conduits shall be routed as high a or perpendicular to structural elements. GENERAL EXPOSED. Exposed conduits shall be routed as high a or perpendicular be structural elements. GENERAL EXPOSED. Frovide boxes for all connections, devices, sy box sizes with structure to which it will be sourced. Condinate the with the architectural/interior drawings prior to rough-in of box. CONDUITS, IMC conduit & fittings shall be utilized for in slabs concealed dy interior forcinos, interior exposed locations above 1 exposed locations aubicet to damage. CONDUITS, FLEEMELE-Flexible metallic conduit& fittings shall be used in d fittings, boxes, etc. shall be of same manufacture with solvent bond. CONDUITS, FLEEMELE-Flexible metallic conduit& fittings shall be utilized for in slabs rousing expansion plinis, foating slabs or isolated slabs. Conduit Provide grounds. Kitchers, areas subject to wesh down, shops & induit Provide grounds. Conduit & fittings shall be utilized in fittings shall eutilized where consign behave initerior/aximor or damp locations. the fitter all of the barrier. CONDUITS, PLEEMELE Flexible metallic conduit& fittings. Concret boxes pourde dorrels. Canter theoxes concealed dy incerior force boxes for unduited metales. Conduit eutilized where possign frum fitter stable dories exclused the fitter all of the barrier. CONDUITS OLES - Ulice interior shall be entrealing. CONDUITS SUBCES - Ulice interior shall be concerted de	#	Rv #	ELECTRICAL CRITERIA - CONDUITS, BOXES
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Provide ground wire in all flex. CONDUT MISC. FITTINGS- Conduit expansion/deflection fittings she crossing expansion joins, floating slabs or isolated slabs. Conduit utilized where crossing between interior/exterior or damp locations. be utilized where crossing between interior/exterior or damp locations. be utilized where passing thru fire rated construction, U. L. fire and the fire rating of the barrier. CONDUT BOXES- Utilize interior stamped steel for indoors dry flust Masonry/file for indoors dry flush mounted devices. Concrete boxe poured concrete. Cast metal boxes for surface mounted devices, o Junction & pull boxes as required or needed. Galvanized steel wir cover, only permitted where noted. FLOOR BOXES - Utilize flush-in-floor type, adjustable post-pour, PV covers. Gang qty to match application & conduit entries. Covers to Hubbell. Steel City or Wiremold FLOOR BOXES - Utilize flush-in-floor type, adjustable post-pour, PV covers. Gang qty to match application & conduit entries. Covers to Hubbell. Steel City or Wiremold FLECTRICAL CRITERIA - LOW VOLTAGE CC CONDUCTORS GENERAL: Provide conductors for all circuiting, wiri Electrical Installation Stds.), NEC & related codes and the manufact requirements. InstraLLATION STANDARDS: Each item shall be installed in accord SUBMITTALS- Provide compets submittals on all items. Mark & indi used. Submit prior to finalizing orders. Submit three sets min, or pe CONDUCTORS COLOR CODED: Each conductor shall be properly it's respective phase, neutral, ground, etc. Wire sizes #12 thru #8 si color-coded jacket Larger wire sizes shall have colored tape at eat etc. CONDUCTORS, COPPER- #12 & #10 - solid copper THHNTHWL CONDUCTORS, COPPER- W12 & fillo - solid copper THHNTHWN conductors less than #12 Cu allowed, unless specifically noted or c conductors less than #12 Cu allowed, unless specifically noted or conductors less than #12 Cu allowed, O		-	vibrations are encountered. Liquid-tight type flex shall be used in d
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 utilized where crossing between interior/exterior or damp locations. be utilized where passing thru fire rated construction, U. L. fire and the fire rating of the barrier. CONDUT BOXES- Utilize interior stamped steel for indoors dry flust macon devices. Concrete boxe poured concrete. Cast metal boxes for surface mounted devices, of Junction & pull boxes as required or needed. Galvanized steel win cover, only permitted where noted. FLOOR BOXES - Utilize flush-in-floor type, adjustable post-pour, PV overs. Gang qty to match application & conduit entries. Covers to Hubbell, Steel Cty or Wiremold SIESMIC BRACING & SUPPORT- All work shall be anchored, brace accordance with he Local Seismic Zone rating requirements. INSTALLATION STANDARDS: Each item shall be installed in accord requirements. Electrical Installation Sds.), NEC & related codes and the manufact requirements. Electrical Installation Sds.), NEC & related codes and the manufact requirements. SUBMITTALS- Provide compete submittals on all items. Mark & indi used. Submit prior to finalizing orders. Submit three sets min., or pet concreded jacket Larger wire sizes shall have colored tape at ear etc. CONDUCTORS COLOR CODED: Each conductor shall be properly its respective phase, neutral, ground, etc. Wire sizes #12 thru #8 st color-coded jacket Larger wire sizes shall have colored tape at ear etc. CONDUCTORS, COPPER #12 & #10 - solid copper THHNTHW to conductors less than #12 Cu allowed, unless specifically noted or conductors less than #12 Cu allowed, unless specifically noted or conductors less than #12 Cu allowed, unless specifically noted or conductors less than #12 Cu allowed, unless specifically noted or conductors less than #12 Cu allowed, unless specifically noted or conductors less than #12 Cu allowed, unless specifically noted or conductors less than #12 Cu allowed, unless specifically noted or esconductors less than #12 Cu			
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ER. Masonny/tile for indoors dry flush mounted devices. Concrete boxe poured concrete. Cast metal boxes for surface mounted devices, or junction & pull boxes as required or needed. Galvanized steel wir cover, only permitted where noted. ER. FLOOR BOXES - Utilize flush-in-floor type, adjustable post-pour, PV covers. Gang qt to match application & conduit entries., Covers to Hubbell, Steel City or Wiremold ER. SEESMIC BRACING & SUPPORT- All work shall be anchored, brace accordance with he Local Seismic Zone rating requirements. INSTALLATION STANDARDS: Each item shall be installed in accord Electrical Installation Stds.), NEC & related codes and the manufacture requirements. INSTALLATION STANDARDS: Each item shall be installed in accord scordance with he Local Seismic Zone rating requirements. INSTALLATION STANDARDS: Each item shall be installed in accord scordance with provide compete submittals on all items. Mark & indi used. Submit prior to finalizing orders. Submit three sets min., or pet concluctors Sol Col CODED: Each conductor shall be properly or it's respective phase, neutral, ground, etc. Wire sizes #12 thru #8 st color-coded jacket. Larger wire sizes shall have colored tape at ear etc. EC- CONDUCTOR LABELING: Each circuit labeled on the conductor and conductors less than #12 Cu allowed, unless specifically noted or conductors shall be compact strand dyc. Gonductors. Set Strew, Bolted or Compression type for #4 conductors. Set Strew, Bolted or Compression type for #4 conductors. CONDECTIONS, ALUMINUM- UL. Listed, 600V, 90C rated; Twiston ty cooper conductors. Net Set Screw, Bolted or Compression type for #4 aconductors. Set Serve, Wpe(s), for Aluminum or Dual-Rated. Compretely insulate eac termination. <td></td> <td></td> <td></td>			
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13 Hubbell, Steel City or Wiremold ER- 14 SIESMIC BRACING & SUPPORT- All work shall be anchored, brace accordance with he Local Seismic Zone rating requirements. ER- 15 INSTALLATION STANDARDS: Each item shall be installed in accord requirements. Electrical Installation Stds.), NEC & related codes and the manufactur requirements. End Of Electrical Criteria - Conduits, Boxes & Fittin EC- 01 CONDUCTORS GENERAL: Provide conductors for all circuiting, wiri off SUBMITTALS- Provide compete submittals on all items. Mark & indi- used. Submit prior to finalizing orders. Submit three sets min., or per conductors phase, neutral, ground, etc. Wire sizes #12 thru #8 is color-coded jacket. Larger wire sizes shall have colored tape at ear etc. EC- 04 CONDUCTORS, COPPER. #12 & #10 - solid copper THHN/THWN to stranded copper THHN/THWN black jacket, #4 & larger - stranded or conductors less than #12 Cu allowed, unless specifically noted or c conductors shall be compact strand type, THHN/THWN. CONDUCTORS, ALUMINUM-Aluminum (AL) not permitted unless no conductors. Completely insulate each connection, splice, termination conductors. Completely insulate each connection, splice, termination conductors. Completely insulate each connection, splice, termination. EC- 05 CONNECTIONS, ALUMINUM- LL Listed, 600V, 90C rated, compres screw type(s),for Aluminum or Dual-Rated. Completely insulate eac termination. EC- 03 CONNECTIONS, DAMP & WET LOCATION- UL Listed 486D type co locations, sealant filled type. IDEAL Model 66 or Equal EC- 10 EC- 12 </td <td></td> <td>-</td> <td></td>		-	
14 accordance with he Local Seismic Zone rating requirements. INSTALLATION STANDARDS: Each item shall be installed in accord requirements. INSTALLATION STANDARDS: Each item shall be installed in accord requirements. Image: State of the stat			Hubbell, Steel City or Wiremold
ER- 15 - Electrical Installation Stds.), NEC & related codes and the manufacture requirements. - - - End Of Electrical Criteria - Conduits, Boxes & Fitting # Rv # ELECTRICAL CRITERIA - LOW VOLTAGE CC CONDUCTORS GENERAL: Provide conductors for all circuiting, wiriding - 01 - SUBMITTALS- Provide compete submittals on all items. Mark & indived 02 used. Submit prior to finalizing orders. Submit three sets min., or peters EC- it's respective phase, neutral, ground, etc. Wire sizes #12 thru #6 st 03 color-coded jacket. Larger wire sizes shall have colored tape at earlier. EC- CONDUCTOR LABELING: Each circuit labeled on the conductor and etc. EC- CONDUCTORS, COPPER- #12 & #10 - solid copper THHN/THWN to stranded copper THHN/THWN to stranded copper THHN/THWN to stranded conductors. Set Screw, Bolted or Compression type for #4 conductors. Completely insulate each connection, splice, termination EC- CONNECTIONS, ALUMINUM- Aluminum (AL) not permitted unless no conductors. Completely insulate each connection, splice, termination. EC- CONNECTIONS, ALUMINUM- UL. Listed, 600V, 90C rated; Twist on ty copper conductors. Set-Screw, Bolted or Compression type for #4 conductors. Completely insulate each connection, splice, termination. EC- CONNECTIONS, ALUMINUM- UL. Listed, 600V, 90C rated; compres or Bolt Type With		-	
# Rv # ELECTRICAL CRITERIA - LOW VOLTAGE CO EC- 01 CONDUCTORS GENERAL: Provide conductors for all circuiting, wiri EC- 01 CONDUCTORS GENERAL: Provide conductors for all circuiting, wiri EC- 01 SUBMITTALS- Provide compete submittals on all items. Mark & indi 02 used. Submit prior to finalizing orders. Submit three sets min., or pe EC- 01 CONDUCTORS COLOR CODED: Each conductor shall be properly EC- 02 it's respective phase, neutral, ground, etc. Wire sizes #12 thru #8 sl 03 color-coded jacket. Larger wire sizes shall have colored tape at ear etc. EC- 04 CONDUCTOR LABELING: Each circuit labeled on the conductor and conductors less than #12 Cu allowed, unless specifically noted or cloreductor shall be compact strand type, THHN/THWN to conductors. COPPER- #12 & #10 - solid copper THHN/THWN to conductors. Completely insulate each connection, splice, termination. EC- 0 CONDUCTORS, ALUMINUM- Aluminum (AL) not permitted unless no conductors. Completely insulate each connection, splice, termination. EC- 0 CONNECTIONS, ALUMINUM- UL. Listed, 600V, 90C rated; compres screw type(s), for Aluminum or Dual-Rated. Completely insulate each termination. EC- 0 CONNECTIONS, DAMP & WET LOCATION- UL Listed 486D type con locations, sealant filled type. IDEAL Model 66 or Equal CONNECTIONS, DAMP & WET LOCATION- UL Listed 486D type con locations, sealant filled type. IDEAL Model 66 or Equal		-	
# Rv # ELECTRICAL CRITERIA - LOW VOLTAGE CO CONDUCTORS GENERAL: Provide conductors for all circuiting, wiri used. Submit prior to finalizing orders. Submit three sets min., or pe CONDUCTORS COLOR CODED: Each conductor shall be properly of its respective phase, neutral, ground, etc. Wire sizes #12 thru #8 sl color-coded jacket. Larger wire sizes shall have colored tape at ear etc. EC- 04 CONDUCTORS, COPPER- #12 & #10 - solid copper THHN/THWN c stranded copper THHN/THWN black jacket, #4 & larger - stranded or conductors less than #12 Cu allowed, unless specifically noted or c conductors shall be compact strand type, THHN/ THWN. EC- 05 CONDUCTORS, COPPER- #12 & #10 - solid copper THHN/THWN c conductors less than #12 Cu allowed, unless specifically noted or c conductors shall be compact strand type, THHN/ THWN. EC- 07 CONNECTIONS, COPPER- U.L. Listed, 600V, 90C rated; Twist on ty copper conductors. Set-Screw, Bolted or Compression type for #4 conductors. Completely insulate each connection, splice, termination. EC- 08 CONNECTIONS, ALUMINUM- U.L. Listed, 600V, 90C rated; compress screw type(s), for Aluminum or Dual-Rated. Completely insulate eac termination. EC- 09 CONNECTIONS, IN-GRADE, UNDER-GROUND, SUBM 486D, 600V, 90C rated for In-Grade, Direct-Burial, Submersible. EC- 12 GROUNDING CONNECTIONS, IN-GRADE, UNDER-GROUND, SUBM 90C rated, Compress Or Bolt Type With Inhibiting compound; For U 486D, 600V, 90C rated for In-Grade, Direct-Burial, Submersible. EC- 12 INSTALLATION STANDARDS: All wiring & connects shall be installe have an integral full length ground conductor, bonded to a ground l end. </td <td></td> <td>-</td> <td>requirements.</td>		-	requirements.
# ELECTRICAL CRITERIA - LOW VOLTAGE CO CONDUCTORS GENERAL: Provide conductors for all circuiting, wiri - CONDUCTORS GENERAL: Provide conductors for all circuiting, wiri - CONDUCTORS COLOR CODED: Each conductor shall be properly of - CONDUCTORS COLOR CODED: Each conductor shall be properly of - CONDUCTORS COLOR CODED: Each conductor shall be properly of - CONDUCTOR LABELING: Each circuit labeled on the conductor and - CONDUCTOR, COPPER-#12 & #10 - solid copper THHN/THWN c - Standed copper THHN/THWN black jacket, #4 & larger - stranded of - CONDUCTORS, ALUMINUM- Aluminum (AL) not permitted unless no - CONDUCTORS, ALUMINUM- Aluminum (AL) not permitted unless or - CONNECTIONS, COPPER- U.L. Listed, 600V, 90C rated; Twist on ty - conductors shall be compact strand type, THHN/THWN. - CONNECTIONS, ALUMINUM- U.L. Listed, 600V, 90C rated; compression type for #4 - conductors. Self-Screw, Bolted or Completely insulate each - CONNECTIONS, IN-GRADE, UNDER-GROUND, SUBMERSIBLE, W/4 - CONNECTIONS, IN-GRADE, UNDER-GROUND, SUBMERSIBLE, W/4 - CONNECTIONS, IN-GRADE, UNDER-GROUND, SUBMERSIBLE, W/4 -			End Of Electrical Criteria - Conduits, Boxes & Fittin
# ELECTRICAL CRITERIA - LOW VOLTAGE CO CONDUCTORS GENERAL: Provide conductors for all circuiting, wiri CONDUCTORS GENERAL: Provide conductors for all circuiting, wiri CONDUCTORS COLOR CODED: Each conductor shall be properly of used. Submit prior to finalizing orders. Submit three sets min., or percent is respective phase, neutral, ground, etc. Wire sizes #12 thru #8 sl color-coded jacket. Larger wire sizes shall have colored tape at ear etc. CONDUCTOR LABELING: Each circuit labeled on the conductor and etc. CONDUCTORS, COPPER- #12 & #10 - solid copper THHN/THWN c stranded copper THHN/THWN black jacket; #4 & larger - stranded conductors less than #12 Cu allowed, unless specifically noted or c CONDUCTORS, ALUMINUM- Aluminum (AL) not permitted unless no conductors shall be compact strand type, THHN/ THWN. CONNECTIONS, COPPER- U.L. Listed, 600V, 90C rated; Twist on ty copper conductors. Set-Screw, Bolted or Compression type for #44 conductors. Completely insulate each connection, splice, termination CONNECTIONS, DAMP & WET LOCATION- UL Listed 486D type con locations, sealant filled type. IDEAL Model 66 or Equal CONNECTIONS, IN-GRADE, UNDER-GROUND, SUBMERSIBLE, W/4 486D, 600V, 90C rated for In-Grade, Direct-Burial, Submersible. Cerections, Sealant filled type. IDEAL Model 66 or Equal Connections, IN-GRADE, UNDER-GROUND, SUBMERSIBLE, W/4 486D, 600V, 90C rated for In-Grade, Direct-Burial, Submersible. Cerections, sealant filled type. IDEAL model 66 or Equal Connections, IN-GRADE, UNDER-		Rv	
01 - CONDUCTORS GENERAL: Provide conductors for all circuiting, wind 02 - SUBMITTALS- Provide compete submittals on all items. Mark & indi 02 - used. Submit prior to finalizing orders. Submit three sets min., or per 03 - CONDUCTORS COLOR CODED: Each conductor shall be properly of 04 - CONDUCTOR LABELING: Each circuit labeled on the conductor and 04 - CONDUCTORS, COPPER-#12 & #10 - solid copper THHN/THWN c 05 - stranded copper THHV/THWN black jacket, #4 & larger - stranded or 06 - conductors less than #12 Cu allowed, unless specifically noted or c 06 - conductors. Set-Screw, Bolted or Compression type for #4 07 - conductors. COPPER- U.L. Listed, 600V, 90C rated; Twist on ty 08 - conductors. Completely insulate each connection, splice, termination 09 - convectrions, ALUMINUM- U.L. Listed, 600V, 90C rated; compres 09 - convectrions, DAMP & WET LOCATION- UL Listed 486D type cor 09 - convectrions, IN-GRADE, UNDER-GROUND, SUBMERSIBLE, W/ 10 - 486D, 600V, 90C rated for In-Grade, Direct-Burial, Submersible. 02 - GROUNDING CONNECTIONS, IN-GRADE, UNDER-GROUND, SUBM 11 - 90C rated, Compress Or Bolt Type With Inhibiting compcund; For U 12 - METAL CLAD CABLE (MC		#	
 used. Submit prior to finalizing orders. Submit three sets min., or per conductor shall be properly of it's respective phase, neutral, ground, etc. Wire sizes #12 thru #8 sl color-coded jacket. Larger wire sizes shall have colored tape at ear etc. CONDUCTOR LABELING: Each circuit labeled on the conductor and etc. CONDUCTORS, COPPER. #12 & #10 - solid copper THHN/THWN constrained copper THHN/THWN black jacket; #4 & larger - stranded conductors less than #12 Cu allowed, unless specifically noted or conductors shall be compact strand type, THHN/THWN. CONDUCTORS, ALUMINUM- Aluminum (AL) not permitted unless not conductors. Set-Screw, Bolted or Compression type for #4 conductors. Completely insulate each connection, splice, termination. CONNECTIONS, DAMP & WET LOCATION- UL Listed 486D type con locations, sealant filled type. IDEAL Model 66 or Equal CONNECTIONS, IN-GRADE, UNDER-GROUND, SUBMERSIBLE, W/ 486D, 600V, 90C rated for In-Grade, Direct-Burial, Submersible. GROUNDING CONNECTIONS, IN-GRADE, UNDER-GROUND, SUBMERSIBLE, W/ 486D, 600V, 90C rated for In-Grade, Direct-Burial, Submersible. GROUNDING CONNECTIONS, IN-GRADE, UNDER-GROUND, SUBMERSIBLE, W/ 486D, 600V, 90C rated for In-Grade, Direct-Burial, Submersible. METAL CLAD CABLE (MC)- Contractor may utilize Metal-Clad (Type circuit wiring in accordance with the code. All materials, fittings, hard labeled for use with MC cable and properly installed and supported have an integral full length ground conductor, bonded to a ground lue ond. INSTALLATION STANDARDS: All wiring & connects shall be installent published requirements. 	01	-	
 EC- it's respective phase, neutral, ground, etc. Wire sizes #12 thru #8 sl color-coded jacket. Larger wire sizes shall have colored tape at ear etc. CONDUCTOR LABELING: Each circuit labeled on the conductor and standed copper THHN/THWN black jacket, #4 & larger - stranded of conductors less than #12 Cu allowed, unless specifically noted or co conductors shall be compact strand type, THHV/THWN. CONDUCTORS, ALUMINUM- Aluminum (AL) not permitted unless not conductors shall be compact strand type, THHV/THWN. CONNECTIONS, COPPER- U.L. Listed, 600V, 90C rated; Twist on ty copper conductors. Set-Screw, Bolted or Compression type for #4 conductors. Completely insulate each connection, splice, termination screw type(s), for Aluminum or Dual-Rated. Completely insulate each termination. CONNECTIONS, IN-GRADE, UNDER-GROUND, SUBMERSIBLE, WA 486D, 600V, 90C rated for In-Grade, Direct-Burial, Submersible. GROUNDING CONNECTIONS, IN-GRADE, UNDER-GROUND, SUBMERSIBLE, WA 486D, 600V, 90C rated for In-Grade, Direct-Burial, Submersible. GROUNDING CONNECTIONS, IN-GRADE, UNDER-GROUND, SUBMERSIBLE, WA 486D, 600V, 90C rated for In-Grade, Direct-Burial, Submersible. METAL CLAD CABLE (MC)- Contractor may utilize Metal-Clad (Type circuit wiring in accordance with the code. All materials, fittings, hard labeled for use with MC cable and properly installed and supported have an integral full length ground conductor, bonded to a ground lu- end. INSTALLATION STANDARDS: All wiring & connects shall be installer NEIS (Nat. Electrical Installation Stds.), NEC & related codes and the published requirements. 		-	used. Submit prior to finalizing orders. Submit three sets min., or pe
 color-coded jacket. Larger wire sizes shall have colored tape at each etc. CONDUCTOR LABELING: Each circuit labeled on the conductor and conductors less than #12 & #10 - solid copper THHN/THWN conductors less than #12 Cu allowed, unless specifically noted or conductors less than #12 Cu allowed, unless specifically noted or conductors shall be compact strand type, THHN/ THWN. CONDUCTORS, ALUMINUM- Aluminum (AL) not permitted unless not conductors shall be compact strand type, THHN/ THWN. CONNECTIONS, COPPER- U.L. Listed, 600V, 90C rated; Twist on ty copper conductors. Set-Screw, Bolted or Compression type for #4 conductors. Completely insulate each connection, splice, termination. CONNECTIONS, ALUMINUM- U.L. Listed, 600V, 90C rated, compress screw type(s), for Aluminum or Dual-Rated. Completely insulate each termination. CONNECTIONS, IN-GRADE, UNDER-GROUND, SUBMERSIBLE, W/ 486D, 600V, 90C rated for In-Grade, Direct-Burial, Submersible. GROUNDING CONNECTIONS, IN-GRADE, UNDER-GROUND, SUBM. 90C rated, Compress Or Bolt Type With Inhibiting compcund; For U labeled for use with MC cable and properly installed and supported have an integral full length ground conductor, bonded to a ground luend. INSTALLATION STANDARDS: All wiring & connects shall be installef. NEIS (Nat. Electrical Installation Stds.), NEC & related codes and the published requirements. 	EC-		
EC- 04 - CONDUCTOR LABELING: Each circuit labeled on the conductor and conductor Response of the conductor and complexity of the conductor of the conductors of the conductors less than #12 & #10 - solid copper THHN/THWN to stranded copper THHN/THWN black jacket; #4 & larger - stranded of conductors less than #12 Cu allowed, unless specifically noted or of conductors shall be compact strand type, THHN/ THWN. CONDUCTORS, ALUMINUM- Aluminum (AL) not permitted unless no conductors shall be compact strand type, THHN/ THWN. CONNECTIONS, COPPER- U.L. Listed, 600V, 90C rated; Twist on ty copper conductors. Set-Screw, Bolted or Compression type for #4 conductors. Completely insulate each connection, splice, termination EC- 08 CONNECTIONS, ALUMINUM- U.L. Listed, 600V, 90C rated, compress screw type(s), for Aluminum or Dual-Rated. Completely insulate each termination. EC- 09 CONNECTIONS, DAMP & WET LOCATION- UL Listed 486D type conductors, sealant filled type. IDEAL Model 66 or Equal EC- 10 CONNECTIONS, IN-GRADE, UNDER-GROUND, SUBMERSIBLE, WA 486D, 600V, 90C rated for In-Grade, Direct-Burial, Submersible. EC- 12 GROUNDING CONNECTIONS, IN-GRADE, UNDER-GROUND, SUBM 90C rated, Compress Or Bolt Type With Inhibiting compound; For U 486D for use with MC cable and properly installed and supported have an integral full length ground conductor, bonded to a ground luend. EC- 13 INSTALLATION STANDARDS: All wiring & connects shall be installer.		-	color-coded jacket. Larger wire sizes shall have colored tape at each
EC- 05 - CONDUCTORS, COPPER-#12 & #10 - solid copper THHN/THWN c stranded copper THHN/THWN black jacket; #4 & larger - stranded c conductors less than #12 Cu allowed, unless specifically noted or c conductors shall be compact strand type, THHN/ THWN. EC- 06 - CONDUCTORS, ALUMINUM- Aluminum (AL) not permitted unless not conductors shall be compact strand type, THHN/ THWN. EC- 07 - CONNECTIONS, COPPER- U.L. Listed, 600V, 90C rated; Twist on ty copper conductors. Set-Screw, Bolted or Compression type for #4 conductors. Completely insulate each connection, splice, terminatio conductors. Completely insulate each connection, splice, termination. EC- 08 - CONNECTIONS, ALUMINUM- U.L. Listed, 600V, 90C rated, compress screw type(s), for Aluminum or Dual-Rated. Completely insulate each termination. EC- 08 - CONNECTIONS, DAMP & WET LOCATION- UL Listed 486D type con locations, sealant filled type. IDEAL Model 66 or Equal EC- 10 - CONNECTIONS, IN-GRADE, UNDER-GROUND, SUBMERSIBLE, WA 486D, 600V, 90C rated for In-Grade, Direct-Burial, Submersible. EC- 12 - GROUNDING CONNECTIONS, IN-GRADE, UNDER-GROUND, SUBM 90C rated, Compress Or Bolt Type With Inhibiting compcund; For U 90C rated, Compress Or Bolt Type With Inhibiting compcund; For U 90C rated, Compress Or Bolt Type With Inhibiting and supported have an integral full length ground conductor, bonded to a ground lu end. EC- 13 - INSTALLATION STANDARDS: All wiring & connects shall be installe nucleis (Nat. Electrical Installation Stds.), NEC & related codes and the published req		-	
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09 - locations, sealant filled type. IDEAL Model 66 or Equal EC- 10 - CONNECTIONS, IN-GRADE, UNDER-GROUND, SUBMERSIBLE, W4 486D, 600V, 90C rated for In-Grade, Direct-Burial, Submersible. EC- 11 - GROUNDING CONNECTIONS, IN-GRADE, UNDER-GROUND, SUBM 90C rated, Compress Or Bolt Type With Inhibiting compound; For U2 90C rated, Compress Or Bolt Type With Inhibiting compound; For U2 90C rated, Compress Or Bolt Type With Inhibiting compound; For U2 methods EC- 12 - METAL CLAD CABLE (MC)- Contractor may utilize Metal-Clad (Type circuit wiring in accordance with the code. All materials, fittings, hard labeled for use with MC cable and properly installed and supported have an integral full length ground conductor, bonded to a ground lu end. EC- 13 - INSTALLATION STANDARDS: All wiring & connects shall be installed published requirements.	80	-	
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 EC- 11 GROUNDING CONNECTIONS, IN-GRADE, UNDER-GROUND, SUBM 90C rated, Compress Or Bolt Type With Inhibiting compound; For U METAL CLAD CABLE (MC)- Contractor may utilize Metal-Clad (Type circuit wiring in accordance with the code. All materials, fittings, hard labeled for use with MC cable and properly installed and supported have an integral full length ground conductor, bonded to a ground lu end. EC- 13 INSTALLATION STANDARDS: All wiring & connects shall be installed NEIS (Nat. Electrical Installation Stds.), NEC & related codes and the published requirements. 	EC-	_	CONNECTIONS, IN-GRADE, UNDER-GROUND, SUBMERSIBLE, WA
11 - 90C rated, Compress Or Bolt Type With Inhibiting compound; For U EC- 12 - METAL CLAD CABLE (MC)- Contractor may utilize Metal-Clad (Type circuit wiring in accordance with the code. All materials, fittings, hard labeled for use with MC cable and properly installed and supported have an integral full length ground conductor, bonded to a ground luend. EC- 13 - INSTALLATION STANDARDS: All wiring & connects shall be installed and the published requirements.			
 EC- 12 circuit wiring in accordance with the code. All materials, fittings, hard labeled for use with MC cable and properly installed and supported have an integral full length ground conductor, bonded to a ground luend. EC- 13 INSTALLATION STANDARDS: All wiring & connects shall be installed NEIS (Nat. Electrical Installation Stds.), NEC & related codes and the published requirements. 		-	90C rated, Compress Or Bolt Type With Inhibiting compound; For U
 Labeled for use with MC cable and properly installed and supported have an integral full length ground conductor, bonded to a ground luend. INSTALLATION STANDARDS: All wiring & connects shall be installed installed installed installation Stds.), NEC & related codes and the published requirements. 			
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 NEIS (Nat. Electrical Installation Stds.), NEC & related codes and the published requirements. 			end.
	1	-	NEIS (Nat. Electrical Installation Stds.), NEC & related codes and the
LIN VI LIGUIUAI UNICIA - LOW VOIRAGE CONDUCTO	-	-	End Of Electrical Criteria - Low Voltage Conducto

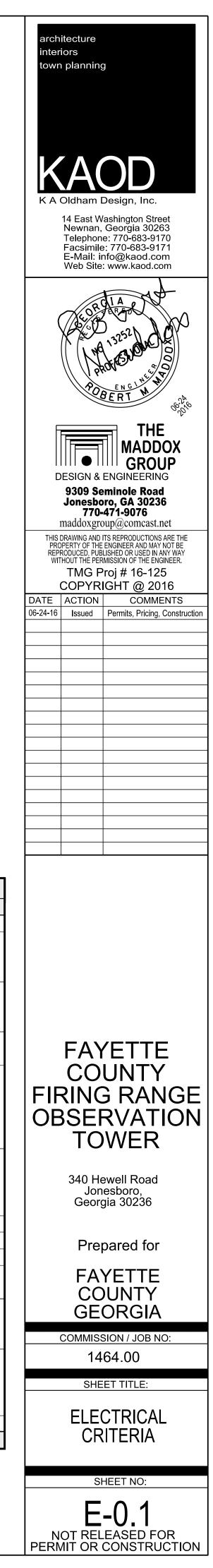
S & FITTINGS	Chk Off	#	Rv #	ELECTRICAL CRITERIA - LOW VOLT. ELECT. DISTRIB. GEAR
nce with the applicable lications and installed in		ED- 01	-	GENERAL ITEMS GENERAL- Provide Low-Voltage Electrical Distribution Gear as required to provide for a complete system to distribute electrical power.
licate specific items to be er General Conditions.		ED- 02	-	ELECTRICAL RATINGS- Prior to ordering or submitting any electrical distribution equipment, verify all equipment ratings (Voltages, Phase, Short-Circuit With-Stand & Interrupting Ratings).
exposed or surface				EQUIPM. DIMENSIONS, CLEARANCES & ACCESS: Prior to ordering or submitting any
sible (i. eabove		ED- 03	-	electrical distribution equipment, verify dimensions, space requirements, clearances, access and interference with work of other trades.
as possible and parallel		ED- 04	-	SUBMITTALS- Provide compete submittals on all items. Mark & indicate specific items to be used. Submit prior to finalizing orders. Submit three sets min., or per General Conditions.
ystem, etc. Coordinate exact final box location		ED- 10	-	LABELING & INSTALLATION EQUIPMENT LABELS: Provide Engraved Melamine Equipment Labels, Adhesive Attached To The Items Face Or Interior Cover. Label To Include Equipment Name, Voltage(s) And
osed locations and interior s not on grade,		ED-	-	OCP Device Ratings If Applicable. SAFETY & WARNING LABELS: Provide Clear & Legible Safety & Warning Labels On Each Item Of Electrical Distribution Gear As Required By The NEC, OSHA & Other Regulations.
10'0" A. F. F.with set tight fittings in slabs, and		11 ED-		ARC-FLASH LABELS: Provide Clear & Legible Arc-Flash Labels On Each Item Of Electrical
de, conduits in earth. PVC I. Depth per code. utilized where motion or damp or wet locations, (i.		12 ED- 13 ED- 14	-	Distribution Gear, Giving The Minimum Ratings, Arc-Flash Energy Level & Required PPE For Each Specific Location. SIESMIC BRACING & SUPPORT- Equipment shall be anchored, braced & supported in accordance with he Local Seismic Zone rating requirements. INSTALLATION STANDARDS: Each item shall be installed in accordance with the NEIS (Nat. Electrical Installation Stds.), NEC & related codes and the manufacturer's published
strial areas, etc.). all be utilized where		ED-		requirements. LOW VOLTAGE OVER-CURRENT PROTECTIVE DEVICES OCP GENERAL- Provide over-current-protective (O.C.P.) devices as required by code
thru wall seals shall be . Conduit fire seals shall smoke seal to maintain h mounted devices.		21 ED- 22		and/or otherwise prescribed. All lugs and terminals 60/75 deg. C rated. MOLDED CASE (MC) CIRCUIT BREAKERS- Thermal-magnetic, bolt-in, quick-make/quick- break type. Trip free operation with ON, OFF & TRIPPED position. Monolithic tie-handle common trip and common reset multi-pole breakers. Trip rating molded on handle or face. Lugs to match cable type terminations. Single pole 15 and 20 ampere breakers to be
es for flush mounting in or damp/wet locations. re-ways with hinged front		ED- 23		"SWITCHING" rated. DISCONNECT REQUIRMENTS - NEMA 1 enclosure indoors, NEMA 3R for damp/wet locations. Voltage, poles, amperage, fusible as required. Equipped with both isolated neutral and ground lugs. Class H, J, R or T fuse with rejection features. Provide switch label.
/C base with brass flip-lid match device types.		ED- 24		DISCONNECTS 30AMP. – 200AMP (240V Max) - Labeled per UL #98. NEMA KS1 general duty type, load make/break rated. Interrupting rating of 100,000 RMS amps (with R/ T fuse).
d & supported in ance with the NEIS (Nat.		ED- 25		DISCONNECTS 400 & 600 AMPERES - Labeled per UL #98. NEMA KS-1 heavy duty type, load make/break rated. Interrupting rating of 200,000 RMS amps (with fuse).
urer's published				DISCONNECT OVER 600 AMPERES- Labeled per Ulf #977, bolted pressure or high pressure contact type. NEMA heavy duty type, load make/break rated. Accept Class L
ngs		ED- 26		fuses (as required). Interrupting rating of 200,000 RMS (with fusing). Manual close - manual/electric trip open. Load side phase under voltage detection/trip. Zero sequence
				GFCI on switches 1000A @ 277 and greater.
ONDUCTORS	Chk Off	ED- 27		FUSES- Fuses shall be of same make, manufacturer, type & rating where providing two or three wire O.C.P. at a device. Provide Busman LOW-PEAK KRP-C. fuses (U.L. 198 C Class L) for protection over 600 amperes. Provide Busman LOW-PEAK LPN-RK (250V) or LPS-RK
ng and systems.			<u> </u>	(600V) (U.L. 198E Class RK1) for protection up to 600 amperes. PANELBOARDS
icate specific items to be er General Conditions.		ED-		PANELBOARDS GENERAL- Provide dead front design with hinged & locking front cover door, NEMA 1 cabinet unless otherwise noted and with devices as scheduled. Voltage, phase, ampacity and devices as scheduled. Service entrance rated as applicable. Series
color coded to represent nall have continuous		30		rated and labeled, unless indicated otherwise. Flush or surface mounted NEMA 1 enclosure. All lugs & terminals 60/75 deg. C rated.
ch termination, pull-box,		ED- 31		PANELBOARD STANDARDS- Labeled UL 67 and 50 (Cabinets, Boxes & Trim); NEMA 250 and PB1; NFPA 70-384 and 373; Federal Specs. W-P-115c; Circuit Breakers- Type I Class 1
l at each box.				& Fusible Switches- Type II, Class 1. SHORT CIRCUIT RATING & ARC-FLASH LABELS: Match or exceed the Available Short
olor coded; #6 & 8 - copper THHN/THWN. No ontrol wiring.		ED- 32		Circuit Current available at the actual panel location; Properly label with Arc-Flash Energy Level & protective requirements (PPE).
oted. Where noted,		ED- 33		PANELBOARD INTERIOR- Factory assembled, double row construction. Staggered numbering, sequence phased. Tin-plated copper or aluminum busing. Full ampacity phase & neutral bus, 50% ground bus.
pe for #8 and smaller and larger copper		ED- 34		OCP DEVICES, COMPONENTS, ETC: Provide all over-current-devices and other components and related as scheduled and / or required. Refer to panel schedule for details.
on. ssion, split-bolt, or set- h connection, splice,		ED-		Refer to Over-Current Protective (OCP) devices criteria. PANEL DIRECTORIES - All Panel Directories Shall Be Current, Fully Detailed & Legible Per
nnector for damp & wet		35		NEC-110.22 & 408.4(A) SWITCHBOARDS SWITCHBOARDS GENERAL- Provide equipment with dead front design and with devices as
ATER-TIGHT- UL Listed		ED- 40		scheduled. Voltage, phase, ampacity and devices as scheduled. Service entrance rated as applicable. Free-Standing, NEMA 1 enclosure unless otherwise required. All lugs &
IERSIBLE- UL 467 Listed,		ED-		terminals 60/75 deg. C rated. SWITCHBOARD STANDARDS- The equipment and all installed components shall be UL Listed & Labeled. Labeled UL 891; NEMA 250 and PB2; NFPA 70-384 and 373; Federal
se In Earth or Concrete. MC) for interior branch		41 ED-		Specs. W-P-115c; Circuit Breakers- Type I Class 1 & Fusible Switches- Type II, Class 1. SHORT CIRCUIT RATING & ARC-FLASH LABELS: Match or exceed the Available Short
ware, etc. shall be U.L. . Type MC cable shall		ED- 42		Circuit Current available at the actual panel location; Properly label with Arc-Flash Energy Level & protective requirements (PPE).
ig or terminal at each		ED- 43		SWITCHBOARD INTERIOR- Factory preassembled, sequence phased. Tin-plated copper or aluminum busing unless otherwise noted. Full ampacity phase & neutral bus, 50% ground
d in accordance with the e manufacturer's		43 ED-		bus. OCP DEVICES, COMPONENTS, ETC: Provide all over-current-devices and other
rs		44 ED-		components and related as scheduled and / or required. Refer to panel schedule for details. Refer to Over-Current Protective (OCP) devices criteria. CIRCUIT DIRECTORIES - All Circuit Directories Shall Be Current, Fully Detailed & Legible Per
		45		NEC-110.22 & 408.4(A)
				TRANSFORMERS TRANSFORMERS GENERAL- Provide dead-front dry-type transformer. Labeled per UL #506, conform with NEMA #250, #ST20 and TR27. General purpose air-cooled dry-type construction. Size, capacity, primary and secondary voltage, as indicated. NEMA 1
		ED- 50		enclosure for indoor dry locations, NEMA 3R enclosure for damp/wet locations. Dead-front construction with removable covers. Maximum temperature rise by resistance of 115 degrees C. in a 40 degrees C. ambient. 75 degrees C. maximum terminal compartment with 60/75 degree C. lugs to match the conductor types. Two 2-1/2% above normal and four 2-1/2% below normal full capacity winding taps.
		-		End Of Electrical Criteria - Low Voltage Electrical Distribution Gear

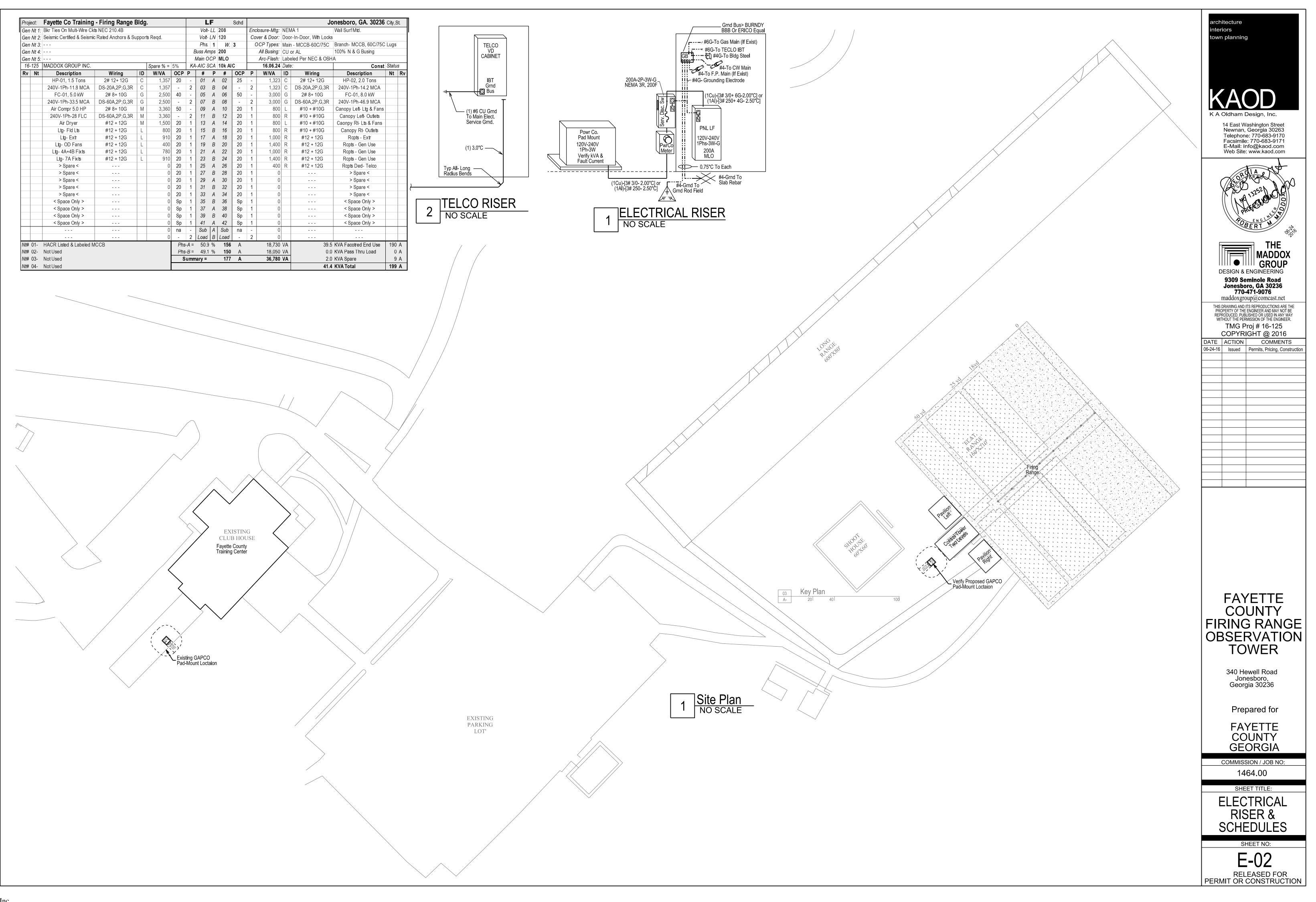
#	Rv #	ELECTRICAL CRITERIA - LIGHTING FIXTURES
EL-	π	GENERAL- Provide a complete system of lighting, including but not limited to, lighting
CL- 01	-	fixtures, lamps, lighting controls, hardware, support and related wiring. The lighting system
		shall be installed complete & left in proper operation & function. PRE_SUBMITTAL COORDINATION - Prior to issuing product submittals and / or ordering this
		contractor shall review & coordinate the specific construction each fixture is to be installed in,
EL-	_	any Fire-Ratings, fixture mounting & support, & attachment methods, & ballast voltages.
02		Dimmed fixtures shall be coordinated with their respective dimmer controls for comp ability.
		Fixtures that are to be fitted to Architectural features (i.ecoves, slots, etc.) shall be coordinated with the respective trades prior to submitting.
		SUBMITTALS - Prepare & submit project specific product documentation, including but not
EL-	-	limited to , fixture cut-sheets with all model numbers, features & option indicated; specific
03		lamps type(s). Custom type fixtures shall include the manufacturers shop fabrication drawings.
EL-		CODES & REQUIRMENTS- Each fixture shall be U.L. Labeled. Comply with the requirement
04	-	of the NEC. Installation shall comply with the N.E.I.S. Emergency Lighting & Egress Signage
EL-		shall comply with NFPA-101.
05	-	ENERGY EFFICENCY CODES- Each fixture shall conform with energy code requirements.
		MANUFACTURERS SERIES- The Lighting Fixture Schedule describes the fixture type, features, lamp(s), and other characteristics that is to be provided. The Manufacturer's Model
EL-	_	Number are provided as a reference to the grade, quality, features & components required.
06		It is the responsibility of this Contractor to verify with the Manufacturer the actual final correct
EL-		fixture make & model number required and to be submitted.
D7	-	MANUFACTURER(S) BASIS - The projects base quote shall be based on the prescribed Manufacturer(s) as identified in the Lighting Fixture Schedule.
		ALTERNATE MANUFACTURER(S) - Alternate Manufacturer(s) products may be proposed as
EL-		Add / Deduct Alternate to the Original Base Bid (Post Bid Proposals Not Accepted). The
08	-	alternate proposal shall be supported with complete fixture and lamp data / cut-sheets with the specific model, features & characteristics indicated. Any variation from the Lighting
		Fixture Schedule shall be noted / indicated.
EL-	-	LAMPS- Lamps shall be a scheduled & Full Light Output, Energy Saving. Lamps shall be by
09 EL-		General Electric, Philips, or Osram /Sylvania unless otherwise noted. LAMPS COLOR & CRI- Lamps, unless otherwise noted, shall be a 30k-35k Color and CRI of
10	-	80+ for Fluorescents & 90+ for LEDs.
EL-	-	LED LAMPS- Shall be UL Labeled (#8750 & 1598c), tested & performance rated per ANSI/
11		ANSLG, CIE, FTC, FCC, IES (LM-79, LM-80 & Related), NEMA LINEAR FLUORESCENT BALLAST- Shall be rated & matched to the specific lamp type(s) it
EL- 12	-	serves, High Power Factor, Full Light Output, Energy Saving Electronic Type. Ballast shall
12		be Multi-Volt (120-480) or Universal Voltage (120/277) & 10% THD or less.
EL-		COMPACT FLUORESCENT LAMP (CFL) BALLAST- Shall be rated & matched to the specific
13		lamp type(s) it serves, High Power Factor, Full Light Output, Energy Saving Electronic Type. Ballast shall be Multi-Volt (120-480) or Universal Voltage (120/277) & 10% THD or less.
EL-		HIGH INTENSTIY DISCHARG (HID) BALLAST- Shall be rated & matched to the specific lamp type(s) it serves, High Power Factor, Full Light Output, Energy Saving Type. Ballast shall be
14		Multi-Volt (120-480) or Universal Voltage (120/277) & 10% THD or less.
EL-		DIMMING BALLAST & CONTROLS- Provide fixtures with dimming type ballast as prescribed.
15		The Ballast & Controls shall be fully coordinate & matched for proper system operation.
		EBIS (EMERGENCY BATTERY/ INVERTERS SYSTEMS) FOR FLUORESCENT LAMPS-
EL-		Provide Battery/ Inverter units where shown or required for emergency egress lighting in
16		accordance with NFPA-101 & NEC. 90 Minute operation (min.) unless otherwise noted. U.L. Listed & Labeled.
EL-		EBIS FEATURES- EBIS units shall be Self-Diagnostic, Automatic Testing with Audio & Visual
17		alarm notification of trouble conditions. If the above feature is not available, provide Manual
EL-		Test Switch w/ Indicator Lamp. EBIS TEST FEATURES- units shall be Self-Diagnostic, Automatic Testing with Audio & Visual
18		alarm notification of trouble conditions.
EL-		EBIS LINEAR LAMP PERFROMANCE - The EBIS shall provide the following minimum
19		Lumen outputs. 48 lnch, 14-32 Watt lamps @ 1100-1400 Lumens. 48 lnch T5 20-55 Watt @ 1800-3000 Lumens
EL-		EBIS CFL LAMP PERFROMANCE - The EBIS shall provide the following minimum Lumen
20		outputs. CFL 09-13 Watt, 2-Piin @ 350-650 Lumens. CFL 13-26 Watt, 2-Pin @ 500-950
		Lumens; CFL 09-42 Watt 4-Pin @ 1100-1400 Lumens. FIXTURE MOUNTING & SUPPORT- Each fixture shall be supported from the ceiling structure
EL-		(verify ceiling structural capacity) or directly from building structure. Secure fixture to ceiling
21		structure in accordance with code. Pendant supported fixtures shall be supported from
EL-		building structure. SIESMIC BRACING & SUPPORT- Fixtures shall be braced & supported in accordance with
22		he Local Seismic Zone rating requirements.
EL-		INSTALLATION STANDARDS: Each item shall be installed in accordance with the NEIS (Nat.
23		Electrical Installation Stds.), NEC & related codes and the manufacturer's published requirements.
-		End Of Electrical Criteria Lighting Eivtures

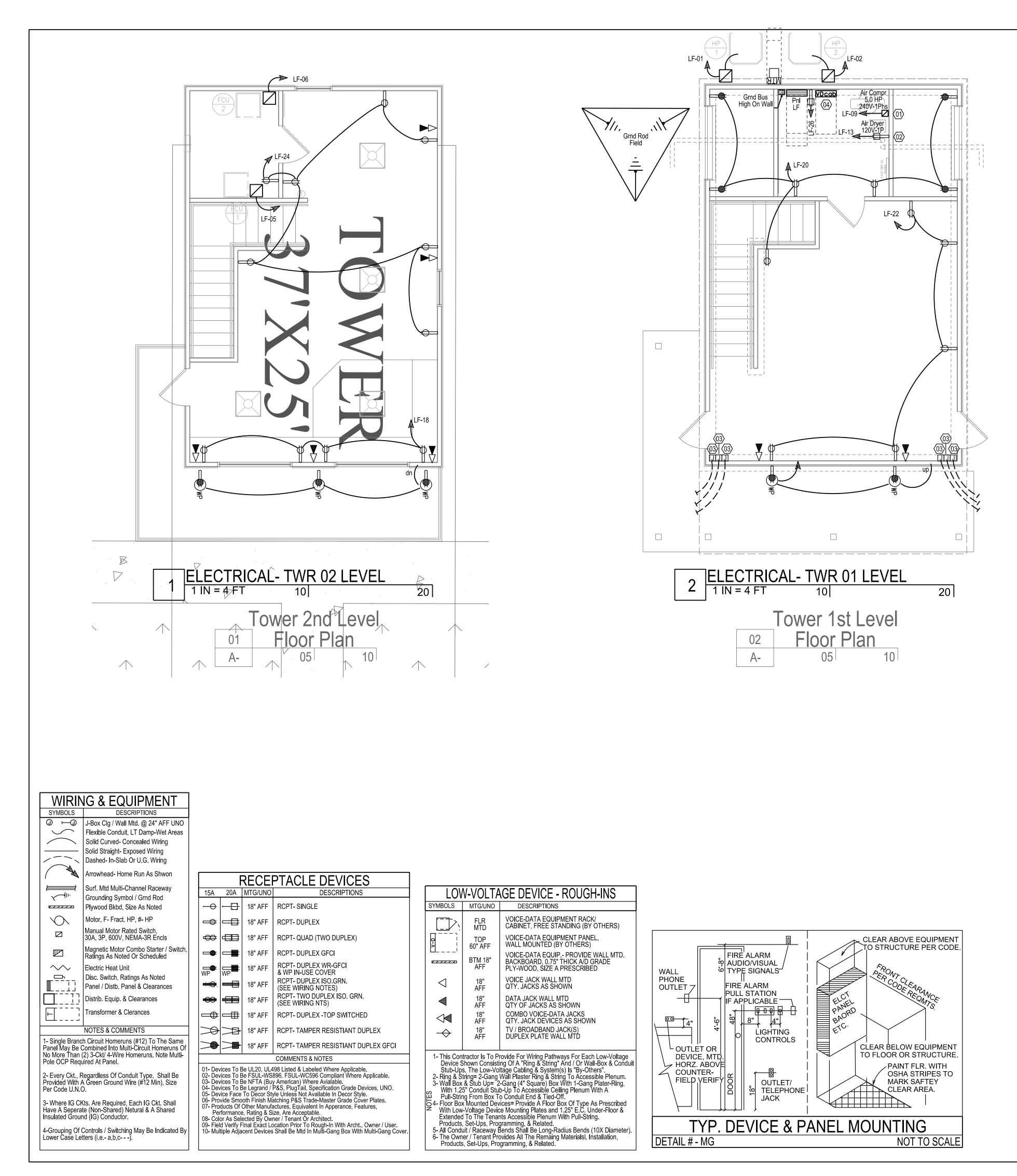
End Of Electrical Criteria - Lighting Fixtures

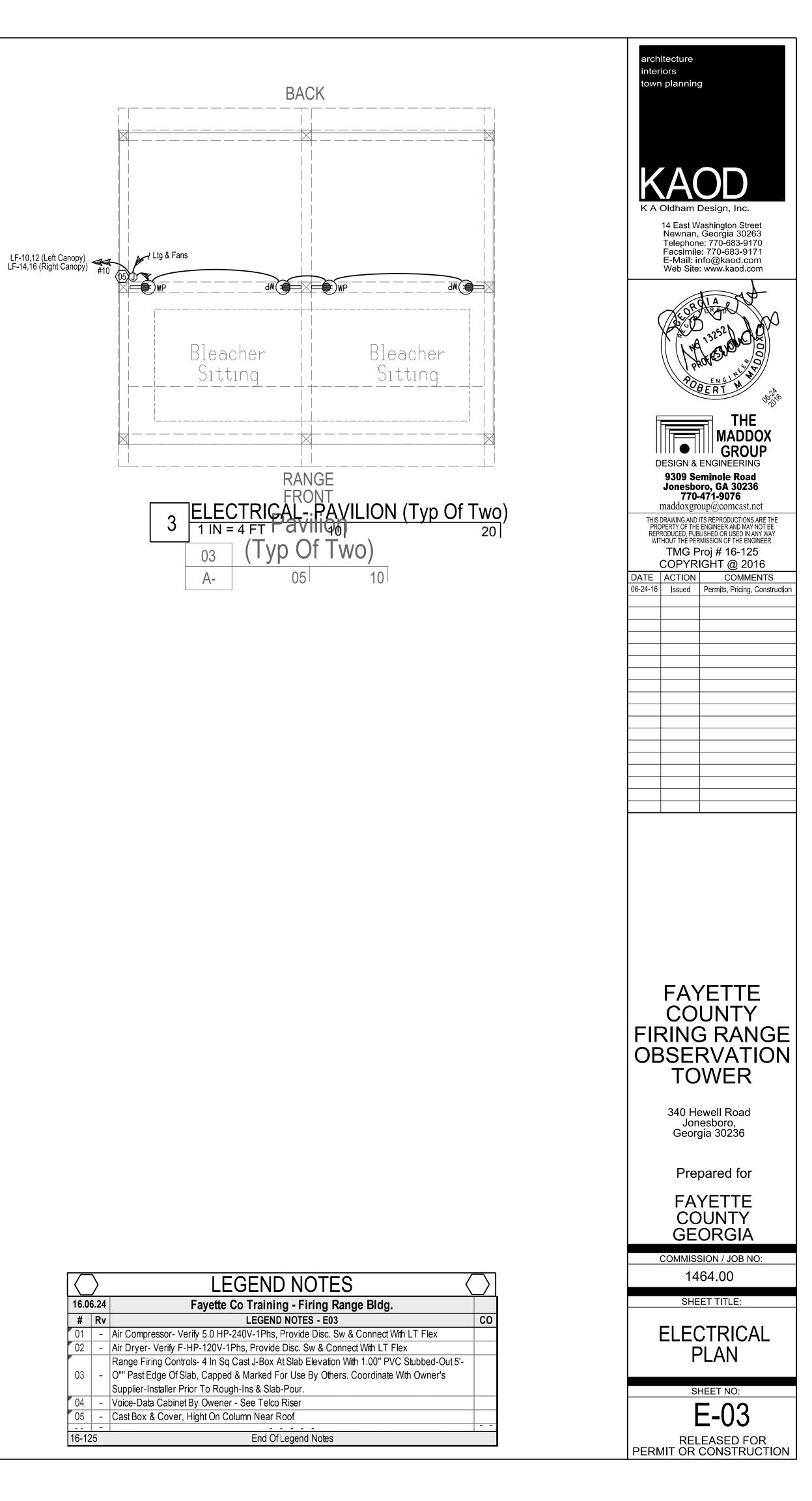
#	Rv #	ELECTRICAL CRITERIA - TELCO V/D/B RACEWAYS								
ET- 01	-	TELCO RACEWAY SCOPE-OF-WORK: Providing raceways, backboards and wall boxes with conduit stub-ups & pull-strings only for devices, cabling & equipment installation by others (Telco, Voice, Data, Broadband, Etc.)								
ET- 02	-	TELCO DEVICES, CABLING & EQUIPMENT: All cabling, jacks, devices, hardware, equipment & software & related installation is the responsibility of the owner or tenant.								
ET- 03	-	TELCO UTILITY COORDINATION: Prior to any rough in, coordinate, in writing, with the Telco Service Provider all related requirements- route, conduit qty & sizes, grounding, etc.								
ET- 04	-	TELCO SYSTEM PROVIDER COORDINATION: Prior to any rough in, coordinate, in writing, with the Telco Service Provider all related requirements- route, conduit qty & sizes, grounding, etc.								
ET- 05	-	TELCO SERVICE CONDUITS: Quanity & size as required or shown, use long radius bends (10X) on all raceway bends & turns. Install Pull-Strings, tagged & tied-off at each end.								
ET- 06	-	TELCO- V/D BACKBOARDS: 3/ 4" Thick A/D Grade fire-retardant plywood, painted with two coats of fire-retardant grey paint, bottom 18 In AFF, secured to wall structure. Provide 4-Hole ground lug with #6 ground extended to main service ground & bonded.								
ET- 07	-	V/D WALL BACKBOXES & STUB-UPS: Provide double gang wall boxes with plaster ring with 1" C. stub-up & turn-out into an accessible plenum. Jacks, devices & covers by owner or tenant's vendor-installer. Install Pull-Strings, tagged & tied-off at each end.								
ET- 08	-	V/D WALL FLOOR BOXES & STUB-UPS: Provide flush-in-floor box(s) with 1" C. under floor, to a wall & stub-up & tum-out into an accessible plenum. Jacks, devices & covers by owner or tenant's vendor-installer. Install Pull-Strings, tagged & tied-off at each end.								
-	-	End Of Electrical Criteria - TELCO V/D/B Raceways								

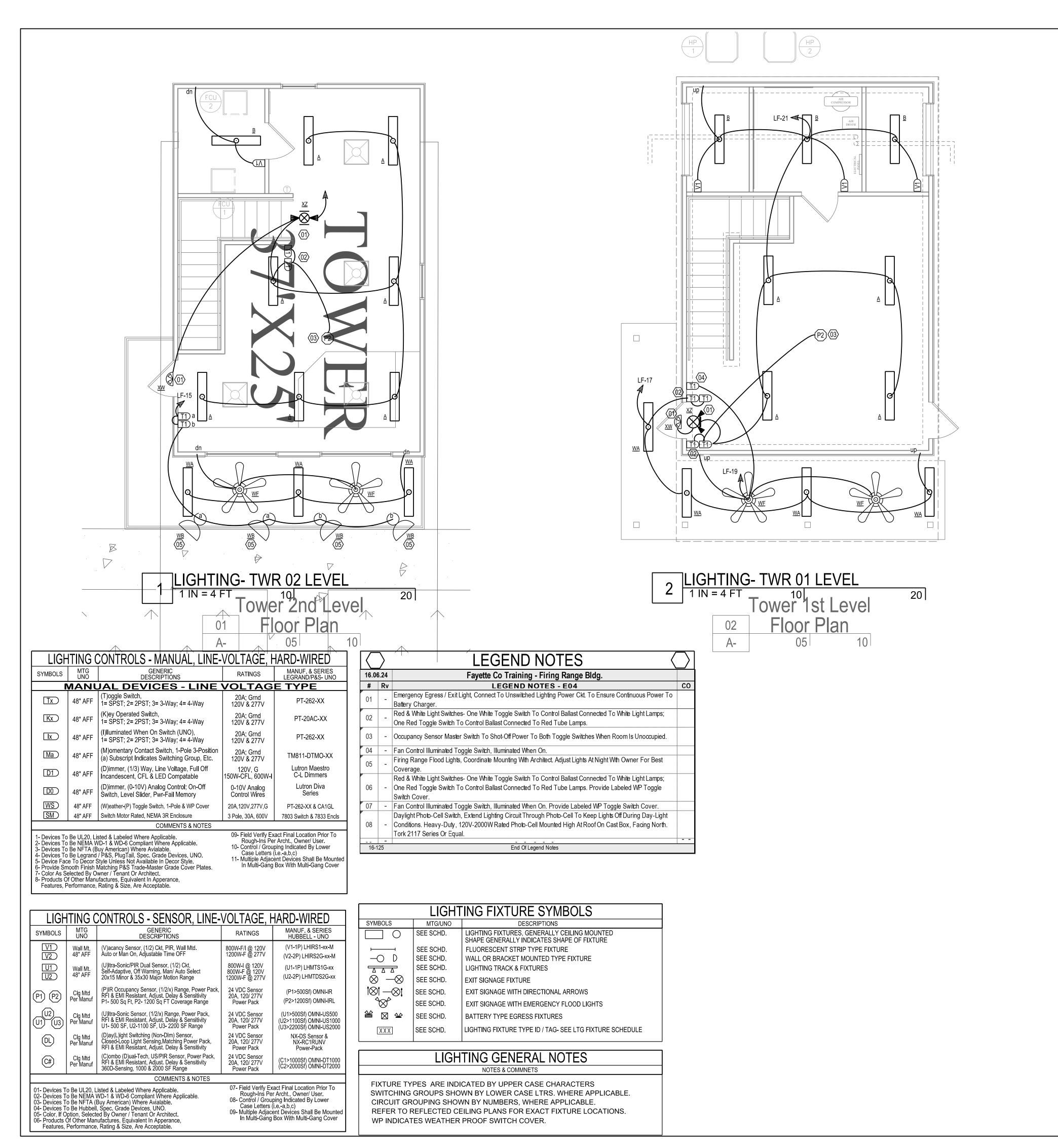
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ng system		EZ-			UEST NOTICE(s)- This Contractor Shall Notify, In Writing, At Least 10 Days In Own/ Archt/ Engr, Of The Desired Date To Request Having An On-Site Review	ſ						
ring this		01 EZ-	Perform	ed.	ION REPORTS- This Contractor Shall Submitt Copy(s) Of Each Inspection							
stalled in,		02	- Report	As Giv	en By The Authority Having Jurisdiction (AHJ) To The Own/ Archt/ Engr.							
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		EZ- 04	-		NS & TEST REPORTS- Provide Copies Of All Required Certifications And Test To Requesting Final Review.							
but not		EZ-	CONTR	ACTOF	R REVIEW- This Contractor Shall Throughly Review & Document That The							
ecific		05 EZ-	· · · · · · · · · · · · · · · · · · ·		rk Is Properly Functioning & Opeating Prior To Requesting A Final Review. CTRICAL BONDING & GROUNDS- Veirfy Each Service Ground & Bond Is							
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Signage		07	- N,L-G, N	N-G) A	nd Amperages Of Each Line, Netural & Ground At The Service Entrance							
		EZ-			CTRICAL DISTRIBUTION- Review & Document Each Part Of The Electrical stem. Verify Proper Size & Ratings Of Each Item, Proper Connections &							
nents.		08	Torque	Values	s. Verify Proper Bonding & Grounding.							
e, Model		EZ- 09			CTRICAL PANEL DIRECTORIES - Review & Verify Detial Panel Directories Are rrect & Installed. Provide Complete "As-Built" Panel Schesule, In PDF Format							
equired. correct					Their Records.							
		EZ- 10			CTRICAL EQUIPMENT WIRING- Review Each Equipment Connection, Verify ion Complies With The Equipment UL Listings & Ratings. Verify Disconnects							
		10			abeled. Check For Proper Voltage & Phase Rotation For Equipment.							
		EZ-		REVIEW ELECTRICAL WIRING & DEVICES- Review & Document That All Branch Circuit Wiring Is Properly Installed, Bonded & Operational. Test Each Outlet With For Proper								
ts with		11		y, Pol	arity & Grounding. Test Using An IDEAL INDUSTRIES SURE-TEST Model 61-							
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		14	- System	s" (i.e.	-Fire Alalrm, Data-Voice, Etc.).							
specific		EZ- 16	- All Spai	e Con	RE PARTS- Label & Turn Over All Keys To Owner's Personell. Review & Show ponents & Parts To Owner's Personell & Document With Transmittal.							
ic Type.		EZ-			- Provide Copies, In Hard-Copy & PDF Format, Of The Field Recored ith All "As-Built" Field Documentation Reflecting The Final Installed Conditions.							
		17	Сору То	o Own/	Archt/ Engr.							
-		EZ- 18	- from da	te of C	This contractor shall warrant all materials, labor & installation for one full year ertificate of Occupancy. Any extended product warranties shall be passed							
			onto the		r. S & TRAINING:- Schedule & Provide A Instructional & Traning Session With							
		EZ-	_ The Ow	ner's [Designated Personell. Review The Project Manual, Perform A "Walk-Thru"							
		20	Breaker	& Re	All Electrical System(s) And Their Proper Operation, Including Resetting Of placment Of Fuses.							
AMPS- ghting in noted. U.L.					NUAL(S)- Provide Both A Bound "Hard-Copy" & PDF Version To The Owner & The Archt/ Engr. The Project Manual Shall Include The Contractors Contact							
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Proj:	Fayette Co Training - Firing Range Bldg.		LIGHTIN	16.06.24 Date							
Loc:	Jonesboro, GA. 30236			KA Oldham Des	sign				Const Stat		
Fixt	General Lighting	Ttl Mean	Lamp	Ballast-Driver	Power		Mount.	Item	Manufacturer	Revs	
ID	Fixture Descriptions	Lumens	Qty & Type	Туре	v	VA	Notes	Notes	Series / Model	#	
A	48Lx12W, 03D, 2+2-T8 X-Sect, Vandal-Resistant Wrap- Around, UV Stablized Polycarbonate Diffuser, Tamper- Resistant Hardware, Wet Location Labeled	na	2+2- F32/ T8/ 35K	2/2 HBF, HPF, 10% THD, PRS	UNV 120- 277	130	SM	3,4	Columbia VR Series: VR- W 4Ft- 2+2L-32T8-EPRS-U	-	
В	48Lx07Wx05D, 2L T8 X-Sect, Fiberglass Enclosed & Gasketed, Frosted High-Impact Acrylic Diffuser, Wet Location Labeled	na	2- F32/ T8/ 35K	1/2 HBF, HPF, 10% THD, PRS	UNV 120- 277	65	SM		Columbia XEM Series: XEM- 2 Ft, 2L-32T8-RFA-EPRS-U	-	
Fixt	Wet-Location Outdoor	Tti Mean	Lamp	Ballast	Power		Mount.	Item	 Manufacturer	Revs	
			-								
ID	Lighting Fixture Descriptions	Lumens	Qty & Type	Туре	V	VA	Notes	Notes		#	
WA	48Lx08W, 07D, 2+2-T8 X-Sect, Vandal-& Tamper Resistant Enclosed, Acrylic Crepe Diffuser, Wet Location Labeled, 2-Ballast	na	2+2- F32/ T8/ 35K	2/2 HBF, HPF, 10% THD, PRS	UNV 120- 277	130	SM	3,4	Columbia FNPS Series: FNPS- 4~8Ft, 2~3~4L-32T8- EPRS-U	-	
WB	Wet-Location Outdoor LED Flood Light, Die-Cast Housing & Matching Hardware, Cutt-Off Hood, Horz. Flood, Verde Green Finish, 4x4 NEMA Beam-Spread +	13,305 Lumens, 45,607	LED, 35k CT, 85+CRI	LED Driver, 10% THD, 0.95 PF	Unv 120V- 277V	200	Yoke or Stem	See Archt	Spaulding ARF Seires: ARF4- Y/K-84L-3K-070-M-120V-DB + LV		
WF	Full Adjustable Louver Outdoor Damp-Location Adjustable Caged Fan Unit, 3- Blade, With Matching Wall Mtd. Speed Control, Mtg. Heigth & Finish Per Architect or Owner. (Black, Bronze, Pewter, Nickle)	BCP 847 CFM Air Flow	No Light	Fan Mtd. 3- Speed Non- Reversing + Remote Wall Ctrl.	120	85	Stem Mtd, Verify Length		Fanmation Extraordinaire- Equal By Casablancal or Modern Fan Co	-	
				unit			 Maxint				
Fixt ID	Exit Signs & Emergency Ltg. Units Fixture Descriptions	Ft 1 FC Avg	Unit Heads Qty & Type	Battery	P0	wer VA	Mount. Notes	Item Notes	Manufacturer Series / Model	Revs	
XW	Dual-Function LED Extr & Batt Egress Wall-Light, Die- Cast Alumn. Vandal-Resistiant, Wet Location, Self- Contained Norm-AC / Emerg. Batt. Unit, Photo-Cell; Heater & Self-Test-Monitor-Alarm, Color Per Archt- Owner- Black, Dk-Bronze, Off-White; Platinum-Gray	640	Wide / Forward Throw, Hi-Lumen Output LED	Nick-Metal Hydride	UNV	3 / 15(Htr)	WM Abv Door	1	LightAlarms Camray LED: CAM-ACSD-ColorCS-FT- HL-PC	-	
XZ	Combo LED Exit Sign, NEMA-4x Vandal-Resistant, 1/2 Face, 2-Adjustable LED Heads, Universal Mtg. Battery Back-Up, Red Ltr, Arrows As Required, Self-Test-Alarm, 3-Yr. Warranty, Color Per Archt-Owner	17W 04D 13H	(2) 12V-6.0W MR16 LED Heads	12 VDC- Lead- Calcium	UNV	5	UM	1	LightAlarms XV Sereis: XV- 24E-Color-1/2-R/G-DA-4X- 2Hd-LD10	-	
										-	
			SPECIFIC I	TEM NOTES			-				
1-	Connect Emerg Battery To Unswitched Source			2-	Refer T	o Interio	r Lighting Pl	ans & S	Schedules For Details.		
3-	2-Ballast, Each With 2-T8 Lamps; 2 "White" Lamps + 2 "R	ed" Lamps	3	4-	Provide 2 Red T8 Tube Guards			ards			
					-			-	M () T		
500	Misc Abbrevations		•	/ Ballast / Driver 1			050	D 1	Mounting Terms		
	Furnished By Owner Complete U.N.O.		CRI	Color Rending Index (Of Lamp)			BFC-	Below Finished Ceiling			
	Fixt Material Cost With Lamps & Hardware Complete		xx K	Kelvin (Lamp Color)			CB-	Concrete Base- See Details			
IBC -	Installed Complete By Contractor, U.N.O.		Lum	Lumens (Lamp Light Output)			FIC-	Flush In Ceiling			
		mA		Milli-Amp (LED Driver Rating)		FIG-	Flush	ush In Grade			
			PS	Programmed Start							
PBC-	Provided By Contractor		STA	Self-Test & Alarm			PH-	Pend.Hung,Htg As Ntd; Per Archt.			
SBO-	O- Selected By Owner		RS	Rapid Start			SM-	Surface Mtd On Ceiling Or Structure			
			THD	Total Harmonic Di	strotion N	Max.	WM-	Wall Mtd- Htg As Noted; Per Archt.			
	AL	FERNA	TES / PRIOR	APPROVAL	REQU	EST					
Α	Project Base Quote Shall Be Based On The Lighting As S										
В	Lighting Products Of Other Manufactuers May Be Submitte From The Specified Fixtures Must Be Denoted.		•	tes, Complete With L	abeled I	Fixtures	& Lampe Da	ata, Cut	-Sheets & Any Variations		
MADD	DX GROUP INC.		End Of Lighting	Fixture Schedule - Se	e Lighting	Criteria				16-12	

