

**ELECTRICAL NOTES:**

- THE TERM "CONTRACTOR" AS USED IN THESE SPECIFICATIONS SHALL MEAN THE "ELECTRICAL SUBCONTRACTOR".
- INCLUDE ALL ELECTRICAL WORK REQUIRED FOR A COMPLETE NEW INSTALLATION AS INDICATED ON THE PLANS AND SPECIFIED HEREIN.
- ALL EQUIPMENT SHALL BE NEW AND SHALL CONFORM IN ALL RESPECTS TO THE LATEST APPROVED STANDARDS OF THE IEEE, ANSI AND THE UL LABEL OR LISTING.
- ALL ELECTRICAL WORK SHALL COMPLY WITH THE LATEST EDITION OF NEC, LOCAL AND STATE CODES, ORDINANCES, REGULATIONS, INCLUDING THE OCCUPATIONAL SAFETY AND HEALTH ACT (OSHA), THE AMERICANS WITH DISABILITIES ACT (ADA), AND THE NATIONAL ENERGY ACT (NEA).
- THE CONTRACTOR SHALL OBTAIN ALL PERMITS, PAY ALL FEES, AND ARRANGE FOR ALL INSPECTIONS FOR HIS WORK. AT THE COMPLETION OF ELECTRICAL WORK, THE CONTRACTOR SHALL FURNISH THE OWNER WITH ALL CERTIFICATES OF FINAL INSPECTION AND APPROVALS.
- THE CONTRACTOR SHALL VISIT THE SITE AND VERIFY THE CONDITIONS UNDER WHICH HIS WORK MUST BE CONDUCTED BEFORE SUBMITTING THEIR PROPOSAL. THE SUBMITTING OF A PROPOSAL IMPLIES THAT THE CONTRACTOR HAS VISITED THE SITE, IS CONVERSANT WITH ALL SITE CONDITIONS, INCLUDING EXISTING SERVICES AND EQUIPMENT, OBSTRUCTIONS AND ALL CONDITIONS WHICH WILL BE ENCOUNTERED IN THE REMOVAL AND/OR RELOCATION OF PRESENT MATERIALS AND EQUIPMENT, INSTALLATION OF NEW MATERIALS AND CUTTING AND PATCHING, ETC. FOR A COMPLETE ELECTRICAL INSTALLATION. IF ANY INTERFERENCES OR VIOLATIONS APPEAR AND DEPARTURE FROM THE DESIGN INTENT OF THE BID DOCUMENTS IS REQUIRED, THE CONTRACTOR SHALL NOTIFY THE OWNER IN WRITING PRIOR TO ENTERING INTO CONTRACT. FAILURE TO PROVIDE THE OWNER WITH THE FOREMENTIONED NOTIFICATION WILL RESULT IN THE CONTRACTOR BEING HELD RESPONSIBLE TO COMPLETE ALL WORK TO MEET THE DESIGN INTENT OF THE BID DOCUMENTS WITH NO ADDITIONAL EXPENSES ("EXTRAS") BEING INCURRED BY THE OWNER OR ENGINEER.
- FORTY-EIGHT HOURS BEFORE ANY EXCAVATION WORK IS STARTED, RELATIVE TO ELECTRICAL WORK, THE CONTRACTOR SHALL CONTACT MISS DIG (TOLL FREE), AT (800) 482-7171.
- SHOULD ANY STRUCTURAL DIFFICULTIES PREVENT SETTING OF CABINETS, RUNNING CONDUITORS, ETC., AT POINTS SHOWN ON PLANS, THE NECESSARY MINOR DEVIATIONS THEREFROM, AS DETERMINED BY THE OWNER, MAY BE PERMITTED AND MUST BE MADE WITHOUT ADDITIONAL COST.
- COOPERATION WITH OTHER CONTRACTORS:
  - THE CONTRACTOR SHALL ARRANGE ALL PARTS OF HIS WORK IN PROPER RELATION TO THE WORK OF OTHERS AND TO THE ARCHITECTURAL FINISH. WHERE INTERFERENCES OCCUR, THE CONTRACTOR SHALL, BEFORE INSTALLING THE WORK INVOLVED, CONSULT WITH THE OWNER AS TO THE EXACT LOCATION AND LEVEL OF HIS WORK. THE OWNER'S DECISION SHALL BE FINAL.
  - THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE ARRANGEMENT OF HIS WORK, AND EQUIPMENT AND MAINTENANCE OF PROPER HEADROOM UNDER THIS WORK. SHOULD WORK INSTALLED BY THE CONTRACTOR REQUIRE MODIFICATION TO AVOID INTERFERENCE WITH OTHER WORK, AS DETERMINED BY THE OWNER, SUCH CHANGES SHALL BE MADE WITHOUT ADDITIONAL COST.
  - THE CONTRACTOR SHALL COORDINATE WITH GENERAL CONTRACTOR TO DETERMINE IF THE WORK AND/OR REQUIREMENTS OF OTHER TRADES AFFECT THIS CONTRACTOR.
  - IN GENERAL, ALL CONTROL WIRING, CONDUIT, AND RELATED ITEMS FOR ALL MECHANICAL SYSTEMS WILL BE FURNISHED AND INSTALLED BY THOSE RESPECTIVE TRADES, UNLESS SPECIFICALLY NOTED OTHERWISE.
- CUTTING AND PATCHING OF WALLS, FLOORS, CEILINGS, ROOFS, ETC., SHALL BE DONE AT THE EXPENSE OF THE CONTRACTOR INSTALLING EQUIPMENT AND APPURTENANCES, SUBJECT TO THE APPROVAL OF THE OWNER. STRUCTURAL MEMBERS SHALL NOT BE CUT WITHOUT OBTAINING WRITTEN PERMISSION. CONDUITS PASSING THROUGH OUTSIDE WALLS EXPOSED TO WEATHER SHALL BE CAREFULLY FLASHED. FIRE PROOFING OF HOLES SHALL BE PROVIDED AND SHALL BE OF A UL LISTED MATERIAL.
- UNDERGROUND WORK:
  - COORDINATE ALL NEW ELECTRICAL UNDERGROUND WORK WITH EXISTING AND NEW UTILITIES PRIOR TO INSTALLATION.
  - CONTRACTOR SHALL BE RESPONSIBLE FOR ALL EXCAVATION, FILL, CONCRETE, REINFORCING BAR, AND FORMS REQUIRED FOR INSTALLATION OF DUCT BANKS, UNDERGROUND CONDUIT, AND OTHER SIMILAR ELECTRICAL WORK.
  - CONTRACTOR SHALL INSTALL SYSTEM COORDINATED, APPROVED WARNING TAPES, 12" BELOW GRADE, ABOVE ALL UNDERGROUND WORK.
- ANY ITEM APPEARING ON THE DRAWINGS AND NOT IN THE SPECIFICATION OR VICE VERSA, AND ANY ITEM APPEARING IN NEITHER BUT NECESSARY TO ACCOMPLISH THE INTENT OF THESE SPECIFICATIONS, SHALL BE FURNISHED BY THE CONTRACTOR.
- GROUNDING:
  - FURNISH AND INSTALL A COMPLETE GROUNDING SYSTEM IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE AND LOCAL CODES AND ORDINANCES.
  - FURNISH AND INSTALL A SUPPLEMENTAL GROUND WIRE FOR ALL POWER AND LIGHTING CIRCUITS. GROUNDING PATH FROM CIRCUITS, EQUIPMENT, AND CONDUCTOR ENCLOSURES SHALL BE PERMANENT AND CONTINUOUS AND SHALL HAVE A RESISTANCE TO GROUND OF LESS THAN 5 OHMS.
  - ALL CABINETS, MOTOR FRAMES, MOTOR STARTERS, CONDUIT SYSTEMS, ETC., SHALL BE THOROUGHLY GROUNDED IN ACCORDANCE WITH THE NEC SECTION 250.
- ALL CONDUCTORS SHALL BE COPPER AND SHALL BE INSTALLED IN CONDUIT. ALL BRANCH CIRCUIT CONDUCTORS SHALL BE MINIMUM SIZE #12 AWG. INSULATED. CONTROL WIRING MAY BE #14 AWG MINIMUM SIZE. ALL FEEDERS SHALL BE COPPER, WITH 600 VOLT INSULATION. FINAL HOMERUNS SHALL BE INCREASED BY ONE AWG SIZE FOR EVERY 75 FOOT LENGTH OF 120V CIRCUITS, 200 FOOT LENGTH OF 208V CIRCUITS.
- ALL CONDUITS SHALL BE BRUN CONCEALED UNLESS OTHERWISE NOTED. EXPOSING OF ANY CONDUIT SHALL BE ONLY DONE WITH THE APPROVAL OF THE OWNER.
- FUSES 0 TO 600 AMPERE SHALL BE CURRENT LIMITING DUAL-ELEMENT TYPE, WITH SEPARATE ELEMENTS FOR OVERLOADS AND SHORT-CIRCUITS, 200,000 AIC RMS SYMMETRICAL, UL CLASS RKT, BUSSMAN OR APPROVED EQUAL.
- GROUND FAULT RECEPTACLES SHALL BE SPECIFICATION GRADE, 120V, 20 AMPERE, UL LISTED UNDER 498 RECEPTACLE REQUIREMENTS AND 943 CLASS A REQUIREMENTS, SHALL CONFORM TO NEC REQUIREMENTS, AND EQUAL TO HUBBELL SERIES #362, P&S, OR ARROW-HART.
- DEVICE PLATES SHALL BE STAINLESS STEEL TYPE 302, HUBBELL "S" SERIES, OR AS SELECTED BY THE OWNER.
- CONDUIT INSTALLED IN WALLS AND ABOVE CEILINGS SHALL BE THIN-WALL TYPE ELECTRICAL METALLIC TUBING ("EMT").
- CIRCUIT BREAKERS SHALL BE MOLDED CASE BOLT ON TYPE, AC RATED, QUICK-MAKE, QUICK-BREAK, WITH TRIP FREE OPERATING HANDLE, POSITION INDICATOR, AND THERMAL-MAGNETIC TRIP DEVICE. TWO-POLE BREAKERS SHALL HAVE A COMMON OPERATING HANDLE AND COMMON TRIP MECHANISM. CIRCUIT BREAKER TRIP RATING MINIMUM INTERRUPTING CAPACITY SHALL BE 10,000 AIC SYMMETRICAL AT 120 VOLTS. ALL NEW CIRCUIT BREAKERS INSTALLED IN EXISTING PANELS SHALL BE FROM THE SAME MANUFACTURER AS THE PANEL IN WHICH IT IS INSTALLED AND SHALL HAVE AN AIC RATING EQUAL TO OTHER BREAKERS IN PANEL. ALL 20 AMPERE CIRCUIT BREAKERS SHALL BE RATED FOR SWITCHING DUTY.
- DISCONNECT SWITCHES SHALL BE HEAVY DUTY TYPE, NEMA 1, FOR INDOOR USE, AND NEMA 3R FOR OUTDOOR USE. RATED 250 VOLT OR 600 VOLT AS REQUIRED. DISCONNECT SWITCHES SERVING MOTOR LOADS SHALL BE HORSEPOWER RATED. SQUARE D, CUTLER-HAMMER OR ITE.
- MOTOR STARTERS:
  - STARTERS FOR SINGLE PHASE MOTORS SHALL BE MANUAL TOGGLE SWITCH TYPE WITH THERMAL OVERLOADS, SURFACE OR FLUSH MOUNTED AS REQUIRED. SQUARE D CLASS 2550.
  - THE CONTRACTOR SHALL FURNISH AND INSTALL THERMAL OVERLOADS BASED ON MOTOR NAMEPLATE DATA.
- CONTRACTOR SHALL GUARANTEE ALL WORK INSTALLED BY HIS WORKMEN UNDER THIS CONTRACT TO BE FREE FROM ALL DEFECTIVE WORKMANSHIP AND MATERIALS FOR A PERIOD OF ONE YEAR AFTER THE ACCEPTANCE OF THE BUILDING BY THE OWNER, AND SHOULD DEFECTS OCCUR WITHIN THIS PERIOD, REPAIR AND/OR REPLACE DEFECTIVE ITEMS, AT NO EXPENSE TO THE OWNER.
- PANEL DIRECTORIES SHALL BE NEATLY UPDATED SHOWING EQUIPMENT SERVED AND LOCATION FOR EACH BREAKER OR SWITCH.
- ALL CIRCUITS AND EQUIPMENT SHALL BE TESTED UPON COMPLETION OF WORK AND FINAL TESTS, WHEN REQUESTED, SHALL BE DONE IN THE PRESENCE OF THE OWNER'S REPRESENTATIVE. ANY CIRCUITS OR EQUIPMENT FOUND TO BE DEFECTIVE SHALL BE REPLACED OR REPAIRED, AS NECESSARY, AND THEN RE-TESTED WITHOUT ADDITIONAL EXPENSE TO THE OWNER.
- UPON COMPLETION OF THE PROJECT, ALL ENCLOSURES SHALL BE LEFT FREE OF REFUSE AND THE EXTERIOR FREE OF DIRT AND PAINT SPLATTERS.

GENERAL: FURNISH AND INSTALL FIRE ALARM SYSTEM CONDUIT AND WIRING AS SPECIFIED HEREIN. INCLUDE ALL OUTLET BOXES, CONDUIT, WIRE, ETC. NECESSARY FOR A COMPLETE OPERATIONAL SYSTEM. ALL COMPONENTS OF THE SYSTEM SHALL BE LISTED BY THE UNDERWRITERS LABORATORIES, INC. FOR THEIR INTENDED USE. ALL COMPONENTS AND OPERATIONAL SEQUENCE AND PROGRAMMING SHALL ALSO BE APPROVED BY THE AUTHORITY HAVING JURISDICTION.

**GENERAL NOTES:**

- ALL CONSTRUCTION SHALL COMPLY FULLY WITH THE APPLICABLE PROVISIONS OF OSHA AND THE LOCAL GOVERNING CODES, LATEST EDITION, AND ALL REQUIREMENTS SPECIFIED IN THE CODES SHALL BE ADHERED TO AS IF THEY WERE CALLED FOR OR SHOWN ON THE DRAWINGS. THIS SHALL NOT BE CONSTRUED TO MEAN THAT ANY REQUIREMENTS SET FORTH ON THE DRAWING MAY BE MODIFIED BECAUSE THEY ARE MORE STRINGENT THAN THE CODE REQUIREMENTS OR BECAUSE THEY ARE NOT SPECIFICALLY REQUIRED BY CODE.
- USE OF ENGINEERING DRAWINGS AS ERECTION DRAWINGS BY THE CONTRACTOR IS STRICTLY PROHIBITED.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL RELEVANT DIMENSIONS AND ELEVATIONS FOR EQUIPMENT INSTALLATIONS.
- CONTRACTOR SHALL VISIT THE SITE AND FAMILIARIZE HIMSELF WITH THE EXISTING CONDITIONS.
- PROTECT ALL EXISTING WORK TO REMAIN FROM DAMAGE DURING DEMOLITION AND CONSTRUCTION.
- PERFORM CUT WORK BY METHODS LEAST LIKELY TO DAMAGE WORK TO BE RETAINED AND WORK ADJOINING.
- VERIFY ALL CONDITIONS COVERING OR AFFECTING THE ELECTRICAL WORK; OBTAIN AND VERIFY ALL DIMENSIONS TO ENSURE THE PROPER FIT AND LOCATION OF THE WORK; REPORT TO THE ENGINEER ANY AND ALL CONDITIONS WHICH MAY INTERFERE WITH OR OTHERWISE AFFECT OR PREVENT THE PROPER EXECUTION AND COMPLETION OF THE NEW WORK. ALL DISCREPANCIES SHALL BE FULLY RESOLVED PRIOR TO COMMENCING WORK.
- PROVIDE TEMPORARY PROTECTION OF EXISTING EQUIPMENT DURING EXECUTION OF WORK, SATISFYING THE OWNER'S REQUIREMENTS.
- CONTRACTOR TO COORDINATE WORK WITH AAVA HEALTHCARE SYSTEM PERSONNEL THROUGH THE AAVA CONTRACTING OFFICER'S TECHNICAL REPRESENTATIVE (COTR) TO AVOID ANY INTERFERENCE IN HEALTHCARE OPERATIONS.
- THIS CONTRACTOR SHALL ARRANGE FOR THE VA COTR TO WITNESS ANY SEGMENT OF INSTALLATION WORK.
- SUBMIT FOR ENGINEER'S REVIEW DETAILS OF PROPOSED MISCELLANEOUS STEEL SUPPORT CHANNELS, FITTINGS, ETC., FOR EACH SUPPORT ASSEMBLY INCLUDING PROPOSED CLIPS, BRIDLE RINGS, INNER DUCT, TRAY, CONDUIT, CABLE MANAGEMENT SYSTEMS, ETC.
- WORK WILL BE PERFORMED AS SHOWN ON THE DRAWINGS AND/OR AS DETERMINED BY PHYSICAL CONDITIONS DISCOVERED DURING INVESTIGATION. NOTE: SOME EXISTING CONDITION ITEMS ARE DESCRIBED IN THE CONTRACT SPECIFICATIONS BUT ARE NOT SPECIFICALLY LOCATED AND/OR SHOWN ON THE CONTRACT DRAWINGS; THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING AND INVESTIGATING THESE ITEMS AND EXECUTING THE WORK AS INDICATED IN THE CONTRACT DOCUMENTS.
- FURNISH AND INSTALL A PULL STRING IN ALL SPARE CONDUITS, DUCTS, INNERDUCTS, ETC. UNDER THIS CONTRACT.
- PROVIDE CABLE MANAGEMENT SYSTEMS FOR A NEAT AND WORKMANLIKE INSTALLATION, AS REQUIRED.
- PROTECT CONDUIT ENDS WITH BUSHINGS AS REQUIRED.
- UPDATE EXISTING PANELBOARD DIRECTORIES ACCORDINGLY.
- REMOVE AND REINSTALL EXISTING CEILING TILES AS REQUIRED FOR NEW WORK. CEILING TILES AND GRIDS DAMAGED DURING COURSE OF CONSTRUCTION SHALL BE REPLACED WITH NEW TO MATCH EXISTING CONDITIONS.
- CONTRACTOR TO METER EXISTING PANELBOARDS AFFECTED BY NEW WORK PRIOR TO ADDING NEW CIRCUITS TO AVOID OVERLOAD CONDITION. NOTIFY COTR OF ANY POSSIBLE OVERLOAD CONDITIONS.
- CORING OF FLOORS AND WALLS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR INSTALLING NEW WORK AND SHALL BE CORED AND SEALED PER SPECIFICATIONS.

LIGHTING FIXTURE SCHEDULE			
TYPE	DESCRIPTION	MOUNTING	WATT
"FA"	FLUORESCENT 4FT CHAIN MOUNTED INDUSTRIAL TYPE WITH MVOLT H.P.F. ELECTRONIC BALLAST AND (2) F32T8 LAMPS. LITHONIA #EJSA 232 GEBIO CLR OTHER ACCEPTABLE MANUFACTURES: HUBBLE OR METALUX	CHAIN MOUNTED	.

SYMBOL LIST	
SYMBOL	DESCRIPTION
	FLUORESCENT LIGHT FIXTURE
	OCCUPANCY SENSOR SWITCH
	DUPLEX RECEPTACLE OUTLET
	SINGLE SPECIAL RECEPTACLE OUTLET (30A., 208V/1Ø)
	COMBINATION FIRE/SMOKE DAMPER
	LIGHTING / RECEPTACLE / EQUIPMENT PANEL
	DISCONNECT SWITCH - FUSIBLE
	GROUND BAR
	EXISTING MANHOLE
	WEATHERPROOF
	EXISTING EQUIPMENT / DEVICE
	EXISTING TO BE REMOVED
	NEW

ELECTRICAL SHEET INDEX	
SHEET	DESCRIPTION
E-001	GENERAL ELECTRICAL INFORMATION
E-101	BUILDING 1E PARTIAL FLOOR PLANS - POWER & SYSTEMS
E-102	BUILDING 1E PARTIAL FLOOR PLANS - POWER & SYSTEMS
E-103	BUILDING 1W PARTIAL FLOOR PLANS - POWER & SYSTEMS
E-104	BUILDING 1W PARTIAL FLOOR PLANS - POWER & SYSTEMS
E-105	BUILDING 28 PARTIAL FLOOR PLANS - POWER & SYSTEMS
E-106	BUILDING T2 - BUILDING 3 - BUILDING 22 FLOOR PLANS - POWER & SYSTEMS
E-107	BUILDING 29 - BUILDING 31 - BUILDING 32 PARTIAL FLOOR PLANS - POWER & SYSTEMS
E-108	BUILDING T3 - BUILDING 4 - BUILDING 15 - BUILDING 30 FLOOR PLANS - POWER & SYSTEMS
E-109	COMMUNICATION MANHOLE & DUCTBANK SYSTEM
E-110	GROUNDING RISER AND DETAILS
E-201	TELECOMMUNICATION ROOM UPS SCHEDULE

**OVERVIEW OF ELECTRICAL SCOPE**

THIS OVERVIEW OF SCOPE IS INCLUDED TO GIVE THE CONTRACTOR A GENERAL OVERVIEW OF THE PROJECT REQUIREMENTS. THE OVERVIEW IS NOT ALL INCLUSIVE AND IS NOT INTENDED TO, AND SHOULD NOT BE USED TO, ESTABLISH CONTRACT LIMITS OR PRICING INCLUSIONS. THE CONTRACT DOCUMENTS SHALL BE USED TO ESTABLISH CONSTRUCTION CONTRACT SCOPE.

THIS OVERVIEW OF SCOPE INCLUDES, BUT IS NOT LIMITED TO THE FOLLOWING:

**ELECTRICAL:**

- PROVIDE CIRCUITRY TO NEW OUTLETS FOR NEW TELECOMMUNICATION UPS UNITS AS SHOWN ON DRAWINGS.
- PROVIDE NEW UNDERGROUND RACEWAY SYSTEMS IN CONCRETE ENCASED DUCT BANKS FOR NEW TELECOMMUNICATION WIRING.
- PROVIDE NEW UPS UNITS WHERE INDICATED ON PLANS.
- PROVIDE GROUND BUS AND ASSOCIATED EQUIPMENT GROUNDING AS INDICATED ON PLANS.
- PROVIDE CIRCUITRY TO NEW MECHANICAL EQUIPMENT AS INDICATED ON PLANS.
- CONNECT NEW FIRE/SMOKE DAMPERS SHOWN ON PLANS TO EXISTING SIMPLEX FIRE ALARM SYSTEM.
- PROVIDE NEW LIGHTING SYSTEMS AS INDICATED.

**PROJECT REQUIREMENTS**

PROVIDE ALL NECESSARY PERMITS. ALL WORK SHALL BE INSTALLED TO COMPLY WITH THE OWNER'S STANDARDS, STATE AND LOCAL CODES INCLUDING, BUT NOT LIMITED TO, THE FOLLOWING CODES AND THEIR RELATED REFERENCES.

- 2008 NATIONAL ELECTRICAL CODE
- NFPA 101 LIFE SAFETY CODE 2006
- MICHIGAN ENERGY CODE-ASHRAE 90.1-2007
- 2009 INTERNATIONAL FIRE CODE (AS REFERENCED)
- 2009 MICHIGAN BUILDING CODE
- 2009 MICHIGAN REHABILITATION CODE FOR EXISTING BUILDINGS
- 2009 MICHIGAN MECHANICAL CODE
- 2009 MICHIGAN PLUMBING CODE
- 2009 INTERNATIONAL FUEL GAS CODE

MANUFACTURER AND MODEL NUMBER LISTED REPRESENTS THE BASIS OF DESIGN FOR THIS PROJECT. THE ELECTRICAL CONTRACTOR SHALL BEAR ALL ADDITIONAL COST ASSOCIATED WITH USING EQUIPMENT BY OTHER APPROVED MANUFACTURERS INCLUDING ADDITIONAL COSTS BY OTHER TRADES.

ALL EQUIPMENT INSTALLED SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. WHERE FIELD OR PROJECT CONDITIONS DO NOT ALLOW ALL MANUFACTURER'S RECOMMENDATIONS TO BE MET, THE INSTALLING CONTRACTOR SHALL SUBMIT IN WRITING TO THE ENGINEER THE PROPOSED DEVIATION, IN A SKETCH FORM, ACCOMPANIED BY THE MANUFACTURER'S CONCURRENCE.

ARCHITECTURAL - MECHANICAL - ELECTRICAL COORDINATION SCHEDULE											
MARK	LOCATION	HP	KW	MCA	ELECTRICAL		DISCONNECT		STARTER		REMARKS
					VOLTAGE	PHASE	FURN.	INST.	FURN.	INST.	
EF-1	BUILDING 1E TR CLOSET AB43A AND TR CLOSET A917	1/6	-	-	120	1	E	E	E	E	PROVIDE DISCONNECT SWITCH. FAN TO RUN CONTINUOUSLY.
ACU-1	BUILDING 1E TR CLOSET AB23.1	-	-	0.4	208	1	E	E	S	S	
ACU-2	BUILDING 1E TR CLOSET AB29	-	-	0.6	208	1	E	E	S	S	
ACU-3	BUILDING 3 TR CLOSET Q2C	-	-	0.4	208	1	E	E	S	S	
ACU-4	BUILDING 28 TR CLOSET F886	-	-	0.4	208	1	E	E	S	S	
ACU-5	BUILDING 28 TR CLOSET F145	-	-	0.4	208	1	E	E	S	S	
ACCU-1	BUILDING 1E OUTDOOR	-	-	7.0	208	1	E	E	S	S	
ACCU-2	BUILDING 1E OUTDOOR	-	-	15.0	208	1	E	E	S	S	
ACCU-3	BUILDING 3 OUTDOOR	-	-	7.0	208	1	E	E	S	S	
ACCU-4	BUILDING 28 ROOF	-	-	7.0	208	1	E	E	S	S	
ACCU-5	BUILDING 28 ROOF	-	-	7.0	208	1	E	E	S	S	

**LEGEND**

S = SUPPLIER (MANUFACTURER)*	EF = EXHAUST FAN	* - ITEMS INDICATED AS SUPPLIER SHALL BE PROVIDED WITH THE ITEM/EQUIPMENT OR BY THE CONTRACTOR PURCHASING THE ITEM/EQUIPMENT
M = MECHANICAL	ACU = AIR CONDITIONING UNIT	
E = ELECTRICAL	ACCU = AIR CONDITIONING CONDENSING UNIT	
VFD = VARIABLE FREQUENCY DRIVE		



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AV - IT - SECURITY - ACOUSTICS

**GENERAL ELECTRICAL INFORMATION**  
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ISSUED FOR	DATE
50% OWNER REVIEW	07/29/11
90% OWNER REVIEW	08/26/11
FINAL OWNER REVIEW	09/21/11
BIDS	10/21/11
ADDENDUM No.2	06/11/12

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