

ELECTRICAL SPECIFICATIONS:

PART 1 - GENERAL

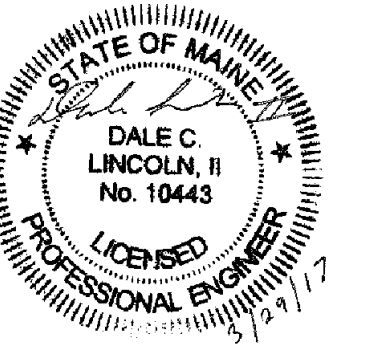
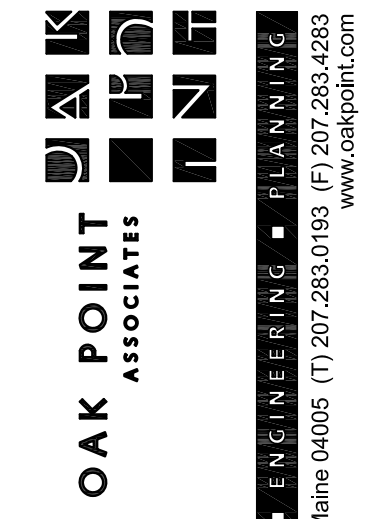
- 1. COMPLY WITH THE REQUIREMENTS OF THE CURRENTLY ADOPTED EDITION OF THE NATIONAL ELECTRICAL CODE (NEC), NFPA ASME A17.1, AND WITH STATE AND LOCAL CODES. IN CASE OF CONFLICT, THE MORE STRINGENT SHALL APPLY.
2. COMPLY WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS.
3. COORDINATE ELECTRICAL WORK WITH CIVIL, MECHANICAL, ARCHITECTURAL, STRUCTURAL, AND PLUMBING TRADES SUBMITTALS:
A. SUBMIT PRODUCT DATA FOR EACH TYPE OF MATERIAL AND PRODUCT LISTED IN PART 2.
B. SUBMIT SHOP DRAWINGS / WIRING DIAGRAMS EDITED TO REFLECT SITE-SPECIFIC CONDITIONS.
C. COMPLY WITH REQUIREMENTS OF SECTION 01330 "SUBMITTAL PROCEDURES".
D. CLOSEOUT SUBMITTALS: COMPLY WITH REQUIREMENTS OF SECTION 017823 "OPERATION AND MAINTENANCE DATA" FOR PANELBOARDS, LIGHTING FIXTURES, LIGHTING CONTROLS AND FIRE ALARM PANELS.

PART 2 - PRODUCTS

- 1. ELECTRICAL EQUIPMENT AND WIRING SHALL BE NEW AND UL LISTED UNLESS OTHERWISE NOTED.
2. CONDUCTORS AND CABLES:
A. BUILDING WIRES AND CABLES: COPPER, TYPE THHN/THWN-2, SINGLE CONDUCTORS IN RACEWAY, CONCEALED IN FINISHED WALLS, CEILINGS, UNLESS OTHERWISE INDICATED.
B. CONNECTORS AND SPLICES: WIRING CONNECTORS OF SIZE, AMPACITY RATING, MATERIAL, AND TYPE AND CLASS FOR APPLICATION AND FOR SERVICES INDICATED.
C. MINIMUM SIZE WIRE SHALL BE #12 AWG UNLESS NOTED OTHERWISE.
3. RACEWAYS:
A. CONDUIT/CABLE: ELECTRICAL METALLIC TUBING: ANSI C80.3 RIGID GALVANIZED STEEL (RGS): ANSI C80.1 PVC SCHEDULE 40; NEMA 122 AND UL 651. FLEXIBLE METALLIC CONDUIT (FMC): UL 1. LIQUID TIGHT FLEXIBLE METALLIC CONDUIT (LFMC): UL 360. MC CABLE: UL1569, SINGLE CIRCUIT, INSULATED COPPER CONDUCTORS, TYPE THHN/THWN, ALUMINUM INTERLOCKED.
B. FITTINGS FOR METALLIC CONDUIT: COMPLY WITH NEMA FB 1 AND UL 514B.
C. OUTLET AND DEVICE BOXES: UL 514A, UL LISTED AND LABELED SHEET METAL BOXES.
D. PULL AND JUNCTION BOXES: UL 514A, SMALL SHEET METAL BOXES.
E. MINIMUM CONDUIT SIZE SHALL BE 1/2" FOR POWER, 1" FOR COMMUNICATIONS.
F. MINIMUM UNDERGROUND CONDUIT SIZE SHALL BE 1".
4. PANELBOARDS:
A. SIEMENS, SQUARE D OR EQUAL.
B. SURFACE MOUNTED, NEMA 1 ENCLOSURE.
C. DOORS: CONCEALED HINGES; SECURED WITH FLUSH LATCH WITH TUMBLER LOCK.
D. HARD DRAWN COPPER BUS: 98% CONDUCTIVITY.
E. LUGS SIZED TO ACCOMMODATE FEEDERS INDICATED.
F. INTERRUPTING RATING: AS INDICATED.
G. EQUIPPED WITH BOLT-ON, MOLDED CASE CIRCUIT BREAKERS, NEMA AB 1. NO TANDEM CIRCUIT BREAKERS. NO SERIES RATING. CIRCUIT BREAKERS SHALL BE FULLY RATED TO INTERRUPT SYMMETRICAL SHORT CIRCUIT CURRENT AVAILABLE AT PANELBOARD'S TERMINALS.
H. DIRECTORY CARD: INSIDE PANELBOARD DOOR, MOUNTED IN METAL FRAME WITH TRANSPARENT PROTECTIVE COVER.
I. COMPLY WITH NEMA PB1 AND NFPA 70.
J. COORDINATE KEYING REQUIREMENTS WITH OWNER.
5. DISCONNECT SWITCHES:
A. SIEMENS, SQUARE D OR EQUAL.
B. COORDINATE FEATURES, ACCESSORIES, AND FUNCTIONS OF EACH DISCONNECT SWITCH WITH THE RATINGS AND CHARACTERISTICS OF THE SUPPLY CIRCUIT AND THE MOTOR.
C. DISCONNECT SWITCHES: NEMA 1, GENERAL DUTY, HORSEPOWER RATED.
D. LOCKABLE HANDLE WITH CAPABILITY TO ACCEPT PADLOCKS, INTERLOCKED WITH COVER IN CLOSED POSITION. ABILITY TO BE LOCKED OPEN.
E. NEMA 1 ENCLOSURE INDOORS.
F. FUSES: CLASS J, FERRAZ SHAWMUT, COPPER BUSSMANN OR EQUAL. CONFIRM CLASS IN ACCORDANCE WITH ELEVATOR MANUFACTURER.
6. WIRING DEVICES:
A. GENERAL PURPOSE WIRING DEVICES: COMPLY WITH NEMA WD1.
B. COLOR: WHITE.
C. RECEPTACLES: UL 498, HEAVY DUTY GRADE EXCEPT AS INDICATED OTHERWISE.
D. GROUND FAULT CIRCUIT INTERRUPTER RECEPTACLES: UL 943, SELF TESTING.
E. SNAP SWITCHES: QUIET TYPE AC SWITCHES, 120/277V, 20A, COMPLYING WITH UL 20.
F. DIMMER SWITCH: LED COMPATIBLE FOR LOAD SERVED. COORDINATE WITH FIXTURE DRIVER. CONTINUOUS SLIDER WITH TOGGLE ON/OFF.
G. WALL PLATES: STAINLESS STEEL.
7. LIGHTING FIXTURES:
A. REFER TO THE LIGHTING FIXTURE SCHEDULE FOR BASIS OF DESIGN FIXTURES.
B. EMERGENCY LIGHTING SHALL BE SELF-DIAGNOSING.
1. EMERGENLITE, DUALITE, FULHAM OR EQUAL.
C. UL LISTED.
8. SINGLE POLE LIGHTING TIMER SWITCH
A. 24-HOUR PROGRAMMABLE.
B. 120V, LISTED FOR FOR CONNECTED LOAD.
C. 5 YEAR WARRANTY (MINIMUM).
9. PENETRATION FIRESTOPPING
A. REFER TO SPECIFICATION SECTION 07 84 13.
10. HANGERS AND SUPPORTS
A. STEEL SLOTTED SUPPORT SYSTEM
1. MATERIAL FOR CHANNEL, FITTINGS AND ACCESSORIES: GALVANIZED STEEL.
2. COMPLY WITH MFMA-4 FACTORY-FABRICATED COMPONENTS FOR FIELD ASSEMBLY.
B. CONDUIT AND CABLE SUPPORT DEVICES: STEEL HANGERS, CLAMPS, AND ASSOCIATED FITTINGS DESIGNED FOR TYPES AND SIZES OF RACEWAY OR CABLE TO BE SUPPORTED.
C. MOUNTING, ANCHORING AND ATTACHMENT COMPONENTS: ITEMS FOR FASTENING ELECTRICAL ITEMS OR THEIR SUPPORTS TO BUILDING SURFACES INCLUDE:
1. MECHANICAL-EXPANSION ANCHORS: INSERT-WEDGE-TYPE, ZINC-COATED STEEL, FOR USE IN HARDENED PORTLAND CEMENT CONCRETE, WITH TENSION, SHEAR, AND PULLOUT CAPACITIES APPROPRIATE FOR SUPPORTED LOADS AND BUILDING MATERIALS WHERE USED.
2. CONCRETE INSERTS: STEEL OR MALLEABLE IRON, SLOTTED SUPPORT SYSTEM UNITS ARE SIMILAR TO MSS TYPE 18 UNITS AND COMPLY WITH MFMA-4 OR MSS SP-58.
11. INVERTER
A. UL924, RATED AND SIZED FOR LED LOAD SERVED.
B. EXTERNAL TYPE, SELF-CONTAINED, MODULAR, BATTERY-INVERTER UNIT. LED INDICATOR LIGHT TO INDICATE NORMAL POWER ON.
C. REMOTE MOUNTED FROM LUMINAIRE.
D. FULLY AUTOMATIC CHARGER.
E. PUSH TO TEST BUTTON SIMULATES LOSS OF POWER AND DEMONSTRATES UNIT OPERABILITY.
12. LABELS
A. MELAMINE PLASTIC, 0.125-INCH THICK, BLACK WITH WHITE CENTER CORE.
B. MINIMUM SIZE: 1-INCH BY 2.5-INCHES, LETTERING SIZE AND STYLE: 0.25-INCHES HIGH, NORMAL BLOCK STYLE.
C. MATTE FINISH, SQUARE CORNERS.
D. SELF-ADHESIVE.
13. COMMUNICATIONS CABLE SUPPORT:
A. COMPLY WITH TIA/EIA-569-A, NRTL LABELED.
B. CABLE SUPPORT BRACKETS SHALL BE DESIGNED TO PREVENT DEGRADATION OF CABLE PERFORMANCE AND PINCH POINTS THAT COULD DAMAGE CABLE. CABLE TIE SLOTS FASTEN CABLE TIES TO BRACKETS.
C. COMPLY WITH NFPA AND UL 2043 FOR FIRE RESISTANT AND LOW-SMOKE-PRODUCING CHARACTERISTICS.
D. SUPPORT BRACKETS WITH CABLE TIE SLOTS FOR FASTENING CABLE TIES TO BRACKETS.
E. LACING BARS, SPOOLS, AND J-HOOKS.
F. STRAPS AND OTHER DEVICES.
14. HORIZONTAL UTP CABLE
A. BER-TEK LANDMARK-1000, CATEGORY 6.
B. MAXIMUM HORIZONTAL CABLE LENGTH IS 295 FEET.
C. 100-OHM, 4-PAIR UTP, COVERED WITH A BLUE THERMOPLASTIC JACKET.
D. LISTED AND LABELED BY AN NRTL ACCEPTABLE TO AUTHORITIES HAVING JURISDICTION AS COMPLYING WITH UL 444 AND NFPA 70 FOR THE FOLLOWING TYPES:
1. COMMUNICATIONS PLENUM RATED: TYPE CMP OR MPP, COMPLYING WITH NFPA 262.
2. MULTIPURPOSE, PLENUM RATED: TYPE MPP, COMPLYING WITH NFPA 262.
15. CABLE CONNECTORS AND BOXES:
A. DATA AND TELEPHONE JACKS: TYPE RJ11 CAT 6.
B. ORTRONICS SINGLE JACKS S21600.
C. ORTRONICS FACEPLATE OR-40300158.
D. ORTRONICS GREEN VOICE ICONS OR-40325100.

PART 3 - EXECUTION

- 1. PREPARATION: VERIFY EXISTING CONDITIONS AND DIMENSIONS AND REPORT DISCREPANCIES TO OWNER. PROCEED WITH THE WORK ONLY AFTER THE DISCREPANCIES HAVE BEEN RESOLVED BY THE OWNER.
2. WIRING DEVICES:
A. INSTALL DEVICES AND ASSEMBLIES PLUMB AND SECURE.
B. MOUNT DEVICES FLUSH, WITH LONG DIMENSION VERTICAL, AND GROUNDING TERMINAL OF RECEPTACLES ON TOP. GROUP ADJACENT SWITCHES UNDER SINGLE, MULTIGANG WALL PLATES.
C. PROTECT DEVICES AND ASSEMBLIES DURING PAINTING.
D. INSTALL WALL PLATES WHEN PAINTING IS COMPLETE.
E. PROVIDE MACHINE PRINTED LABEL INDICATING FEEDING PANELBOARD/CIRCUIT.
F. RECEPTACLES SHALL BE TESTED AND LOGGED PRIOR TO UNE ACCEPTANCE. REPLACE DEFECTIVE DEVICES.
3. WIRING METHODS:
A. INSTALL WIRES AND CABLES ACCORDING TO THE NECA'S "STANDARD OF INSTALLATION."
B. WIRING AT OUTLETS: INSTALL WITH AT LEAST 6 INCHES OF SLACK CONDUCTOR AT EACH OUTLET.
C. INDOOR WIRING METHODS (EXCEPT PIT AND HOISTWAYS): AS FOLLOWS:
1. EXPOSED: TYPE THHN/THWN-2, SINGLE CONDUCTORS IN RACEWAY.
2. CONCEALED: TYPE THHN/THWN-2, SINGLE CONDUCTORS IN RACEWAY.
3. BOXES AND ENCLOSURES: NEMA 250, TYPE 1.
4. INSTALL RACEWAYS, BOXES, ENCLOSURES, AND CABINETS AS INDICATED, ACCORDING TO MANUFACTURER'S WRITTEN INSTRUCTIONS.
5. CONCEAL WIRING AND CONDUIT UNLESS OTHERWISE INDICATED, WITHIN FINISHED WALLS, CEILINGS AND FLOORS.
6. EMT, IN NEW WALLS AND CEILINGS.
7. MC CABLE IN EXISTING WALLS: NOT EXPOSED.
D. PIT, HOISTWAY AND EXTERIOR WIRING METHODS:
1. CONNECTION TO VIBRATING EQUIPMENT (MOTOR-DRIVEN EQUIPMENT OR LIGHTING FIXTURES): LIQUID TIGHT FLEXIBLE METAL CONDUIT, 6 FEET MAXIMUM LENGTH.
2. EXPOSED: RIGID GALVANIZED STEEL.
3. CONCEALED: RIGID GALVANIZED STEEL.
4. UNDERGROUND: SCHEDULE 40 PVC.
5. BOXES AND ENCLOSURES: NEMA 250, TYPE 4 STAINLESS STEEL.
6. INSTALL RACEWAYS, BOXES, ENCLOSURES, AND CABINETS AS INDICATED, ACCORDING TO MANUFACTURER'S WRITTEN INSTRUCTIONS.
E. USE RACEWAY FITTINGS COMPATIBLE WITH RACEWAY AND SUITABLE FOR USE AND LOCATION.
F. INSTALL EXPOSED RACEWAYS PARALLEL TO OR AT RIGHT ANGLES TO NEARBY SURFACES OR STRUCTURAL MEMBERS, AND FOLLOW THE SURFACE CONTOURS AS MUCH AS PRACTICAL.
G. JOIN RACEWAYS WITH FITTINGS DESIGNED AND APPROVED FOR THE PURPOSE AND MAKE JOINTS TIGHT. USE BONDING BUSHINGS OR WEDGES AT CONNECTIONS SUBJECT TO VIBRATION. USE BONDING JUMPERS WHERE JOINTS CANNOT BE MADE TIGHT. USE INSULATING BUSHINGS TO PROTECT CONDUCTORS.
H. INSTALL PULL WIRES IN EMPTY RACEWAYS. USE NO 14 AWG ZINC-COATED STEEL OR MONOFILAMENT PLASTIC LINE HAVING NOT LESS THAN 200-LB TENSILE STRENGTH. LEAVE NOT LESS THAN 12 INCHES OF SLACK AT EACH END OF THE PULL WIRE. LABEL EACH END.
I. PROVIDE A SEPARATE GREEN GROUND CONDUCTOR IN RACEWAY FROM THE PANELBOARD SUPPLYING THE RACEWAY TO RECEPTACLE OR FIXTURE GROUND TERMINALS.
J. FLEXIBLE CONNECTIONS: USE MAXIMUM OF 72 INCHES OF FLEXIBLE CONDUIT FOR EQUIPMENT SUBJECT TO VIBRATION, NOISE TRANSMISSION, OR MOVEMENT; AND FOR MOTORS, INSTALL SEPARATE GROUND CONDUCTOR ACROSS FLEXIBLE CONNECTIONS.
K. PROVIDE COLOR CODING AS FOLLOWS:
208/120 VOLTS: PHASE A - BLACK
PHASE B - RED
PHASE C - BLUE
NEUTRAL - WHITE
GROUND - GREEN
L. SECURE AND SUPPORT CABLES AT INTERVALS NOT EXCEEDING 30 INCHES AND NOT MORE THAN 6 INCHES FROM BOXES, FITTINGS, OUTLETS, RACKS, FRAMES AND TERMINALS.
M. TESTS AND INSPECTIONS
1. INSPECT EXPOSED SECTIONS OF CONDUCTOR AND CABLE FOR PHYSICAL DAMAGE.
2. TEST BOLTED CONNECTIONS FOR HIGH RESISTANCE.
3. CONTINUITY TEST ON EACH CONDUCTOR AND CABLE.
4. REPLACE DEFECTIVE CABLES.
N. PROVIDE FIRESTOPPING IN ACCORDANCE WITH SPECIFICATION SECTION 07 84 13.
4. PANELBOARDS AND CIRCUIT BREAKERS:
A. COMPLY WITH NECA 1.
B. INSTALL PANELBOARDS AND ACCESSORIES ACCORDING TO NEMA PB 1.1.
C. PERFORM VISUAL AND MECHANICAL INSPECTIONS AND ELECTRICAL TESTS STATED IN NEMA PB1.1 AND NETA ATS.
D. PROVIDE TYPED PANELBOARD DIRECTORY.
E. PROVIDE LABELS.
F. UPDATE EXISTING DIRECTORIES.
5. DISCONNECT SWITCHES:
A. COMPLY WITH NFPA 70 AND NECA 1.
B. SECURELY MOUNT TO STRUCTURE.
C. PERFORM VISUAL AND MECHANICAL INSPECTIONS AND ELECTRICAL TESTS STATED IN NETA ATS.
D. CORRECT MALFUNCTIONING UNITS ON-SITE AND RETEST TO DEMONSTRATE COMPLIANCE; OTHERWISE, REPLACE WITH NEW UNITS AND RETEST.
E. PROVIDE LABEL INDICATING LOAD SERVED AND FEEDING PANELBOARD/CIRCUIT.
6. GROUNDING AND BONDING:
A. SHALL BE IN ACCORDANCE WITH THE NEC.
B. PROVIDE A SEPARATE GREEN GROUNDING CONDUCTOR FOR EACH INDIVIDUAL CIRCUIT.
C. METAL CONDUIT SHALL BE GROUNDED BUT SHALL NOT BE USED AS THE EQUIPMENT GROUNDING CONDUCTOR.
D. CONNECTIONS BELOW GRADE SHALL BE EXOTHERMIC WELD TYPE.
7. LIGHTING WIRING INSTALLATION
A. WIRING WITHIN ENCLOSURES: BUNDLE, LACE, AND TRAIN CONDUCTORS TO TERMINAL POINTS. SEPARATE POWER-LIMITED AND NONPOWER-LIMITED CONDUCTORS ACCORDING TO CONDUCTOR MANUFACTURER'S WRITTEN INSTRUCTIONS.
B. SIZE CONDUCTORS ACCORDING TO LIGHTING CONTROL DEVICE MANUFACTURER'S WRITTEN INSTRUCTIONS, UNLESS OTHERWISE INDICATED.
C. TIGHTEN ELECTRICAL CONNECTORS AND TERMINALS ACCORDING TO MANUFACTURER'S PUBLISHED TORQUE TIGHTENING VALUES.
D. INSTALL LIGHTING FIXTURES IN ACCORDANCE WITH MANUFACTURERS WRITTEN INSTRUCTIONS. TEST FOR PROPER OPERATION. REPLACE DEFECTIVE FIXTURES.
E. ADJUST AND AIM LUMINAIRES IN THE PRESENCE OF THE OWNER.
8. HANGERS AND SUPPORTS
A. COMPLY WITH THE FOLLOWING STANDARDS FOR APPLICATION AND INSTALLATION REQUIREMENTS OF HANGERS AND SUPPORTS, EXCEPT WHERE REQUIREMENTS ON DRAWINGS OR NOTED BELOW ARE MORE STRICT.
1. NECA 1.
2. NECA 101.
3. MAXIMUM SUPPORT SPACING FOR CONDUIT, AS REQUIRED BY NFPA 70.
B. MOUNTING AND ANCHORAGE OF SURFACE-MOUNTED EQUIPMENT AND COMPONENTS:
1. TO WOOD: FASTEN WITH LAG SCREWS OR THROUGH BOLTS.
2. TO NEW CONCRETE: BOLT TO CONCRETE INSERTS.
3. TO EXISTING CONCRETE: EXPANSION ANCHOR FASTENERS.
9. INSTALLATION AND TESTING OF TELECOMMUNICATIONS CABLES
A. COMPLY WITH NECA 1 AND NECA/BICSI 568.
B. COORDINATE AND COMPLY WITH OWNER'S LABELING REQUIREMENTS.
C. REQUIREMENTS FOR CABLING:
1. COMPLY WITH BICSI ITSIMM, CH. 5, "COPPER STRUCTURED CABLING SYSTEMS," "CABLE TERMINATION PRACTICES" SECTION. INSTALL 110-STYLE IDC TERMINATION HARDWARE UNLESS OTHERWISE INDICATED. TERMINATE ALL CONDUCTORS; NO CABLE SHALL CONTAIN TERMINATED ELEMENTS. MAKE TERMINATION ONLY AT INDICATED OUTLETS, TERMINALS, CROSS-CONNECTS, AND PATCH PANELS.
2. CABLES MAY NOT BE SPLICED. SECURE AND SUPPORT CABLES AT INTERVALS NOT EXCEEDING 30 INCHES AND NOT MORE THAN 6 INCHES FROM BOXES, FITTINGS, OUTLETS, RACKS, FRAMES, AND TERMINALS.
3. PULLING CABLE: COMPLY WITH BICSI ITSIMM, CH. 5, "COPPER STRUCTURED CABLING SYSTEMS," "PULLING CABLE" SECTION. MONITOR CABLE PULL TENSIONS.
4. COMPLY WITH TIA-568-C.0 AND TIA-568-C.2 FOR UTP CABLE INSTALLATION.
5. BUNDLE, LACE, AND TRAIN CONDUCTORS TO TERMINAL POINTS WITHOUT EXCEEDING MANUFACTURER'S LIMITATIONS ON BENDING RADIUS, BUT NOT LESS THAN RADII SPECIFIED IN BICSI ITSIMM, CH. 5, "COPPER STRUCTURED CABLING SYSTEMS," "CABLE TERMINATION PRACTICES" SECTION USE LACING BARS AND DISTRIBUTION SPOOLS.
6. FIRESTOPPING: COMPLY WITH TIA-569-C, ANNEX A, "FIRESTOPPING." COMPLY WITH "FIRESTOPPING SYSTEMS" ARTICLE IN BICSI'S "TELECOMMUNICATIONS DISTRIBUTION METHODS MANUAL."
D. TESTS AND INSPECTIONS:
1. VISUALLY INSPECT JACKET MATERIALS FOR NRTL CERTIFICATION MARKINGS. INSPECT CABLING TERMINATION'S IN COMMUNICATIONS EQUIPMENT ROOMS FOR COMPLIANCE WITH COLOR-CODING FOR PIN ASSIGNMENTS, AND INSPECT CABLING CONNECTIONS FOR COMPLIANCE WITH TIA-568-C.1.
2. VISUALLY INSPECT CABLE PLACEMENT, CABLE TERMINATION, GROUNDING AND BONDING, AND LABELING OF COMPONENTS.
3. TEST UTP COPPER CABLING FOR DC LOOP RESISTANCE, SHORTS, OPENS, INTERMITTENT FAULTS, AND POLARITY BETWEEN CONDUCTORS. TEST OPERATION OF SHORTING BARS IN CONNECTION BLOCKS. TEST CABLES AFTER TERMINATION BUT NOT CROSS-CONNECTION. TEST INSTRUMENTS SHALL MEET OR EXCEED APPLICABLE REQUIREMENTS IN TIA-568-C.2. PERFORM TESTS WITH A TESTER THAT COMPLIES WITH PERFORMANCE REQUIREMENTS IN "TEST INSTRUMENTS (NORMATIVE)" ANNEX, COMPLYING WITH MEASUREMENT ACCURACY SPECIFIED IN "MEASUREMENT ACCURACY (INFORMATIVE)" ANNEX. USE ONLY TEST CORDS AND ADAPTERS THAT ARE QUALIFIED BY TEST EQUIPMENT MANUFACTURER FOR CHANNEL OR LINK TEST CONFIGURATION.
E. DATA FOR EACH MEASUREMENT SHALL BE DOCUMENTED. DATA FOR SUBMITTALS SHALL BE PRINTED IN A SUMMARY REPORT THAT IS FORMATTED SIMILARLY TO TABLE 10.1 IN BICSI'S "TELECOMMUNICATIONS DISTRIBUTION METHODS MANUAL," OR SHALL BE TRANSFERRED FROM THE INSTRUMENT TO THE COMPUTER, SAVED AS TEXT FILES, PRINTED, AND SUBMITTED.
F. REMOVE AND REPLACE CABLES WHERE TEST RESULTS INDICATE THAT THEY DO NOT COMPLY WITH SPECIFIED REQUIREMENTS.
G. END-TO-END CABLING WILL BE CONSIDERED DEFECTIVE IF IT DOES NOT PASS TESTS AND INSPECTIONS.
H. PREPARE TEST AND INSPECTION REPORTS.



DESIGNED BY: HRM
DRAWN BY: BPD
CHECKED BY: DCL
PROJECT: 21602.16

UNIVERSITY OF NEW ENGLAND
PORTLAND CAMPUS
Fine Arts Gallery
716 Stevens Avenue
Portland, ME 04103-2693

FINE ARTS GALLERY
ELEVATOR ADDITION
FOR PERMITTING ONLY - NOT FOR CONSTRUCTION

ELECTRICAL SPECIFICATIONS

SCALE: AS NOTED
DATE: 3-29-17

DWG. E-002

SHEET: 23 OF 26