FLEXIBLE EQUIPMENT CONNECTION

SINGLE LINE DIAGRAM △↓↓↓ 460V 500KVA POWER TRANSFORMER 200/208 VOLTAGES, WINDINGS AND SIZE AS INDICATED AUTOMATIC TRANSFER SWITCH ATS = AUTOMATIC TRANSFER MTS = MANUAL TRANSFER POLES AND RATING AS NOTED MOTOR GENERATOR GROUND CONNECTION 100 AMP SWITCH / 90 AMP / 3 POLE UNFUSED SWITCH - 100 AMP SWITCH / 3 POLE CIRCUIT BREAKER - MOLDED CASE TYPE 90 AMP TRIP / # OF POLES **—** LT = LONG TIME SETTING ST = SHORT TIME SETTING I = INSTANTANEOUS SETTING DIGITAL MULTIMETER 400/5 CURRENT TRANSFORMER NUMBER AND RATIO AS INDICATED COMBINATION MOTOR CONTROLLER AND FUSED DISCONNECT 100/90/3 SWITCH; SWITCH AMPS / FUSE AMPS / # OF POLES. VOLTAGE RATING & STARTER SIZE AS REQUIRED COMBINATION MOTOR CONTROLLER AND CIRCUIT BREAKER TRIP AMPS / # OF POLES, VOLTAGE RATING & STARTER SIZE AS REQUIRED **HEALTHCARE** NURSE CALL MASTER STATION NURSE CALL PATIENT STATION (1 BED) NURSE CALL PATIENT STATION (2 BED) NURSE CALL EMERGENCY STATION NURSE CALL LAVATORY STATION NURSE CALL DUTY STATION NURSE CALL STAFF STATION NURSE CALL CODE BLUE STATION NURSE CALL EQUIPMENT CABINET-SURFACE MOUNTED F = FLUSH WALL MOUNTEDNURSE CALL CORRIDOR LAMP, WALL MOUNTED NURSE CALL ZONE LAMP, WALL MOUNTED, NUMBER OF LAMP SECTIONS EQUAL TO NUMBER OF COLORS IN

ASSOCIATED CORRIDOR LAMPS.

F = FLUSH WALL MOUNTED

90° BEND 6" INTO ACCESSIBLE CEILING

M = MASTER STATION

FM = FETAL MONITOR

INTERCOM STATION

INTERCOM CENTRAL EQUIPMENT SURFACE MOUNTED

PHYSIOLOGICAL MONITORING - COMBINATION POWER/SIGNAL

2 GANG PARTITIONED WALLBOX WITH A DUPLEX RECEPTACLE

AND 3/4"C (1.5"C AT NURSE'S STATION) TERMINATED IN A

RELATED EQUIPMENT

VOICE/DATA/P.A.

DOOR HOLDER

JUNCTION BOX

ACCESSIBLE CEILING

P = PUBLIC

F = FAX

ACCESSIBLE CEILING

DEMOLITION SYMBOLS

NEW

<u>EXAMPLE</u>

(RE)

VOICE & DATA OUTLET LOCATION WITH 3/4" CONDUIT

#/# = # OF VOICE JACKS / # OF DATA JACKS

VOICE OUTLET LOCATION WITH 3/4" CONDUIT TERMINATED IN

DATA OUTLET LOCATION WITH 3/4" CONDUIT TERMINATED IN

A 90 DEG. BEND 6" INTO NEAREST ACCESSIBLE CEILING

TELEVISION OUTLET LOCATION WITH 3/4" CONDUIT

TERMINATED IN A 90 DEG. BEND 6" INTO NEAREST

EXISTING TO REMAIN

RELOCATED EXISTING

EXISTING TO BE REPLACED WITH NEW

EXISTING TO BE REMOVED AND CIRCUIT

RELOCATED AS SHOWN ON DRAWINGS.

CUT BACK AND/OR EXTEND EXISTING

COMPLETE OPERATIONAL INSTALLATION.

REQUIRED SO AS TO PROVIDE A

BRANCH CIRCUIT WIRING AND CONDUIT AS

PULLED BACK TO NEXT ACTIVE

EXISTING TO BE REMOVED AND

DEVICE/BACK TO PANELBOARD.

A 90 DEG. BEND 6" INTO NEAREST ACCESSIBLE CEILING

W = WALL MOUNTED 48"AFF

= NUMBER OF JACKS

= NUMBER OF JACKS

TERMINATED IN A 90 DEG. BEND 6" INTO NEAREST

ABBREVIATIONS

4	ADDKL	VIATIONS
	+	SPECIAL MOUNTING HEIGHT. COORDINATE LOCATION WITH ARCHITECTURAL ELEVATIONS
	1P	SINGLE POLE
	2P	TWO POLE
	3P	THREE POLE
	Α	AMPERE
	AFF	ABOVE FINISHED FLOOR
	AIC	AMPERE INTERRUPTING CAPACITY
	ATS	AUTOMATIC TRANSFER SWITCH
	AWG	AMERICAN WIRE GAUGE
	BLDG	BUILDING
	CAB	CABINET
	С	CONDUIT
	СВ	CIRCUIT BREAKER
	CCTV	CLOSED CIRCUIT TELEVISION
	CKT	CIRCUIT
	CLG	CEILING
	CTL	CONTROL
	CONN	CONNECTED
	CONT	CONTINUATION
	CU	COPPER
	DEG	DEGREE
	. C	DEGREE CELSIUS
	• F	DEGREE FAHRENHEIT
	DIA	DIAMETER
	DISC	DISCONNECT
	DIV	DIVISION
	DN	DOWN
	DP	DISTRIBUTION PANEL BOARD
	DWG	DRAWING
	(E)	EXISTING TO REMAIN
	EA	EACH
	EC	ELECTRICAL CONTRACTOR
	ELEC	ELECTRICAL
	EM	EMERGENCY
	EQUIP	EQUIPMENT
	(ER)	EXISTING TO BE REMOVED
	(ERR)	EXISTING TO BE REMOVED & RELOCATED
	EXIST,EX	EXISTING
	FA	FIRE ALARM
	EACD	FIRE ALARM CONTROL DANIEL

FIRE ALARM CONTROL PANEL

FIRE ALARM ANNUNCIATOR

FULL LOAD AMPERES

GROUND FAULT INTERRUPTER

THOUSAND CIRCULAR MILS

FEEDER

FIXTURE

FLOOR

FLEXIBLE

GROUND

HERTZ

GENERATOR

HORSE POWER

INCANDESCENT

JUNCTION BOX

KILOVOLT AMPERE

KILOWATT HOUR

MAIN CIRCUIT BREAKER

MOTOR CONTROL CENTER

MAIN DISTRIBUTION PANEL

KILOVOLT

KILOWATT

LIGHTING

MANHOLE

MOUNTED

NEUTRAL

MAIN LUG ONLY

NORMALLY CLOSED

NOT IN CONTRACT

NORMALLY OPEN

NOT TO SCALE

POLE

PULL BOX

PHASE

PANEL

POWER

RECEPTACLE

SCHEDULE

SPEAKER

SWITCH

SYSTEMS

TRANSF,XFMR TRANSFORMER

SPECIFICATION

RELOCATED EXISTING

EXISTING TO BE REMOVED

AND RETURN TO OWNER

UNLESS OTHERWISE NOTED

VOLT OR VOLTAGE

ISOLATED GROUND

FLUORESCENT

FLUOR

GEN

KWH

LTG

MCB

MDP

(RE)

RECEPT, REC

SCHED,SCH

SPEC

SPKR

SYS

ELECTRICAL DEMOLITION NOTES

THE CONTRACTOR SHALL INCLUDE IN HIS BID ALL COSTS ASSOCIATED WITH REMOVALS AND RELOCATIONS OF ELECTRICAL WORK AS DESCRIBED IN THE SPECIFICATIONS WITH ALLOWANCES FOR EXPECTED OR UNFORESEEN DIFFICULTIES WHEN CONCEALED WORK HAS BEEN OPENED. NO CLAIMS FOI ADDITIONAL WORK ASSOCIATED WITH DEMOLITION WILL BE ACCEPTED, EXCEP IN CERTAIN CASES CONSIDERED JUSTIFIABLE BY THE ARCHITECT.
THE CONTRACTOR SHALL REMOVE AND/OR RELOCATE ALL EXISTING ELECTRICAL WORK WHICH INTERFERES WITH THE NEW ARCHITECTURAL AND ELECTRICAL LAYOUTS IN FULL COORDINATION WITH THE ARCHITECT'S DEMOLITION PLANS. ALL SYSTEMS WHICH ARE NO LONGER REQUIRED TO FUNCTION SHALL BE DE-ENERGIZED AND DISCONNECTED AT THE SOURCE OF POWER SUPPLY.

3. THE CONTRACTOR SHALL PERFORM DEMOLITION AND REMOVAL WORK WITH MINIMUM INTERFERENCE WITH FUNCTIONING ELECTRICAL SYSTEMS. ALL AFFECTED SYSTEMS SHALL BE RECONNECTED AND RESTORED.

4. DEMOLITION AND REMOVAL WORK SHALL BE PERFORMED IN A NEAT AND WORKMANLIKE MANNER. THE CONTRACTOR SHALL PATCH. REPAIR OR OTHERWISE RESTORE ANY DAMAGED INTERIOR OR EXTERIOR BUILDING SURFACE TO ITS ORIGINAL CONDITION.

5. THE CONTRACTOR SHALL REMOVE ALL ELECTRICAL OUTLETS, SWITCHES AND OTHER DEVICES, COMPLETE WITH ASSOCIATED WIRING, CONDUITS, ETC., FROM PARTITIONS THAT ARE TO BE REMOVED. WHERE THE REMOVAL OF THESE ITEMS DISRUPTS EXISTING WIRING THAT IS TO REMAIN, THE CONTRACTOR SHALL INSTALL JUNCTION BOXES AND OTHER DEVICES AND PROVIDE BYPASS CONNECTIONS NECESSARY TO MAKE CIRCUITS AFFECTED CONTINUOUS AND READY FOR OPERATION. OTHERWISE, WIRING SHALL BE REMOVED BACK TO THE NEAREST ELECTRICAL JUNCTION BOX THAT IS TO REMAIN OR TO PANELBOARD.

6. ALL RACEWAYS WHICH BECOME EXPOSED DURING THE ALTERATION WORK SHALL BE REMOVED AND REROUTED CONCEALED BEHIND FINISHED SURFACES.

7. ALL UNUSED OUTLET BOXES OR CAPPED FLOOR OUTLETS SHALL BE PROVIDED WITH MATCHING BLANK COVERS.

8. EXISTING PANEL DIRECTORIES AFFECTED BY THE ALTERATION WORK SHALL BE MODIFIED TO REFLECT THE BRANCH CIRCUIT WIRING CHANGES.

9. PORTIONS OF FEEDER RUNS TO BE REMOVED OR ABANDONED AS A RESULT OF DEMOLITION WORK, BUT WHICH ARE REQUIRED TO REMAIN ENERGIZED, SHALL BE CUT AT CONVENIENT LOCATIONS, REROUTED AND RECONNECTED. NEW FEEDER EXTENSIONS SHALL MATCH EXISTING ONES IN ALL RESPECTS, CABLE TYPE, CONDUCTOR AMPACITY, CONDUIT SIZES, ETC.

10. THE CONTRACTOR SHALL NOTIFY THE OWNER AT THE APPROPRIATE TIME OF THE PROJECTED DEMOLITION AND PHASING SCHEDULE SO THAT REMOVAL OR RELOCATION OF AFFECTED UTILITIES MAY BE CARRIED OUT IN COORDINATION WITH THE PROJECT REQUIREMENTS. THE CONTRACTOR SHALL FOLLOW CLOSELY THE ARCHITECT'S DEMOLITION AND PHASING SCHEDULE AND PROCEED IN THE SPECIFIED SEQUENCE.

11. ALL EXISTING MATERIAL AND EQUIPMENT IN USABLE CONDITION, WHICH IS TO BE REMOVED UNDER THIS CONTRACT, SHALL REMAIN THE PROPERTY OF THE OWNER OR SHALL BE DISPOSED OF BY THE ELECTRICAL CONTRACTOR, AS

DIRECTED BY THE OWNER. 12. ARRANGE TO WORK CONTINUOUSLY, INCLUDING OVER TIME, IF REQUIRED, TO ASSURE THAT SYSTEMS WILL BE SHUT DOWN ONLY DURING THE TIME ACTUALLY REQUIRED TO MAKE THE NECESSARY CONNECTIONS TO THE

EXISTING SYSTEMS. 13. THE SHUTDOWN OF EXISTING BUILDING ELECTRICAL SERVICES SHALL BE COORDINATED WITH THE OWNER. MAKE ARRANGEMENTS AT LEAST 5 BUSINESS DAYS PRIOR TO A SHUTDOWN.

ELECTRICAL GENERAL NOTES

- 1. GENERAL NOTES, SYMBOL LIST AND DETAILS ARE APPLICABLE TO ALL ELECTRICAL DRAWINGS.
- 2. ALL WORK IS NEW UNLESS OTHERWISE NOTED.
- DRAWINGS ARE DIAGRAMMATIC AND INDICATE GENERAL ARRANGEMENT OF SYSTEMS AND WORK. FOLLOW DRAWINGS IN LAYING OUT WORK AND CHECK DRAWINGS OF OTHER TRADES TO VERIFY SPACE CONDITIONS. MAINTAIN HEADROOM AND SPACE CONDITIONS.

SECURE ALL SUPPORTS TO BUILDING STRUCTURE UTILIZING TOGGLE BOLTS (HOLLOW MASONRY), EXPANSION SHIELDS OR INSERTS (CONCRETE AND BRICK), MACHINE SCREWS (METAL), BEAM CLAMPS (FRAMEWORK), WOOD SCREWS (WOOD) OR PAN THRU STRAPS (METAL DECK). NAILS, RAWL PLUGS AND WOOD PLUGS ARE NOT PERMITTED. WHERE REQUIRED BY STRUCTURE, PROVIDE THRU BOLTS AND FISH PLATES. SUPPORT HORIZONTAL RUNS OF METALLIC RACEWAYS NOT MORE THAN 10 FT APART. SUPPORT RACEWAY RISERS AT EACH FLOOR LEVEL. RUN EXPOSED RACEWAYS PARALLEL WITH OR AT RIGHT ANGLES TO WALLS.

PASS RACEWAYS OVER WATER, STEAM OR OTHER PIPING WHEN PULL BOXES ARE NOT REQUIRED. NO RACEWAY WITHIN 3 INCHES OF STEAM OR HOT WATER PIPES OR APPLIANCES (EXCEPT PIPE CROSSINGS WHERE RACEWAY SHALL BE AT LEAST 1 INCH FROM PIPE COVERS).

CUT CONDUIT ENDS SQUARE, REAM SMOOTH, PAINT MALE THREAD OF FIELD THREADED RACEWAYS WITH GRAPHITE BASE PIPE COMPOUND. DRAW UP TIGHT WITH RACEWAY COUPLING.

7. HORIZONTAL OR CROSS RUNS IN PARTITIONS AND WALLS ARE NOT PERMITTED. DO NOT RUN CONDUIT IN PRECAST ROOF SLABS, IN 2 INCH SLABS OR IN TERRAZZO FLOOR FINISH.

LEAVE WIRES WITH SUFFICIENT SLACK TO PERMIT MAKING FINAL CONNECTIONS. RACEWAYS OVER 10 FT LONG IN WHICH WIRING IS NOT INSTALLED: FURNISH FISH WIRE.

9. SET BOXES SQUARE AND TRUE WITH BUILDING FINISH. ERECT WALL AND SWITCH OUTLETS IN ADVANCE OF FURRING AND FIREPROOFING. SECURE TO BUILDING STRUCTURE BY ADJUSTABLE STRAP IRONS.

10. VERIFY LOCATIONS OF OUTLETS AND SWITCHES IN FINISHED ROOMS WITH ARCHITECTURAL DRAWINGS OF INTERIOR DETAILS AND FINISH. IN CENTERING OUTLETS AND LOCATING BOXES AND OUTLETS, ALLOW FOR OVERHEAD PIPES, DUCTS AND MECHANICAL EQUIPMENT, VARIATIONS IN FIREPROOFING AND PLASTERING, WINDOW AND DOOR TRIM, PANELING, HUNG CEILINGS AND THE LIKE. CORRECT ANY INACCURACY RESULTING FROM FAILURE TO DO SO WITHOUT EXPENSE TO OWNER.

11. LOCATIONS INDICATED FOR LOCAL WALL SWITCHES ARE SUBJECT TO MODIFICATIONS AT OR NEAR DOORS. COORDINATE WITH ARCHITECT AND INSTALL SWITCH ON SIDE OPPOSITE HINGE. VERIFY FINAL HINGE LOCATIONS IN FIELD PRIOR TO SWITCH OUTLET INSTALLATION.

12. COVERS OF JUNCTION AND PULLBOXES SHALL BE READILY ACCESSIBLE.

13. PROVIDE PULLBOXES WHERE INDICATED, WHERE REQUIRED BY CODE AND WHEREVER NECESSARY TO FACILITATE PULLING OF WIRE. COORDINATE PULLBOX LOCATIONS WITH OTHER TRADES.

14. EMPTY RACEWAY RUNS: PROVIDE PULLBOXES EVERY 100 FT AND AS INDICATED. COORDINATE LOCATIONS WITH OTHER TRADES.

15. JUNCTION AND PULLBOXES: LOCATE GENERALLY NOT EXPOSED IN FINISHED SPACES. WHERE NECESSARY, REROUTE RACEWAYS OR MAKE OTHER ARRANGEMENTS FOR CONCEALMENT.

16. SUPPORT PANEL, JUNCTION AND PULLBOXES INDEPENDENTLY TO BUILDING STRUCTURE WITH NO WEIGHT BEARING ON RACEWAYS.

17. ALL ACCESS DOOR LOCATIONS SHALL BE REVIEWED BY ARCHITECT PRIOR TO

18. CONNECT CONDUIT TO MOTOR CONDUIT TERMINAL BOXES WITH FLEXIBLE CONDUIT (MINIMUM 18 IN. LENGTH AND 50% SLACK). DO NOT TERMINATE IN OR FASTEN RACEWAYS TO MOTOR FOUNDATION.

19. PROVIDE 2#14 INDICATING PILOT LIGHT WIRES FROM PILOT LIGHT IN CONTROLLER TO LOAD SIDE OF DISCONNECT SWITCH. RUN WIRES IN BRANCH CIRCUIT CONDUIT AND INCREASE CONDUIT SIZE AS REQUIRED.

20. PULL NO THERMOPLASTIC WIRES AT TEMPERATURES LOWER THAN 32°F (OC). PROVIDE CABLE SUPPORTS FOR WIRE IN RISER CONDUITS AS REQUIRED BY

21. PROVIDE SEPARATE RACEWAYS FOR CONDUCTORS OF NORMAL AND

EMERGENCY CIRCUITS. COMMON BOXES: PROVIDE BARRIERS BETWEEN EMERGENCY AND NORMAL WIRING.

22. HEIGHTS OF OUTLETS FROM FINISHED FLOOR TO CENTERLINE OF OUTLET:

RECEPTACLES AND TELEPHONES:

GENERALLY OVER WORK BENCHES WALL SWITCHES WALL FIXTURES MOTOR CONTROLLERS GONGS AND HORNS FIRE ALARM STATIONS CLOCKS

6'-8" TO BOTTOM STROBE LIGHTS EXCEPTIONS: AT JUNCTION OF DIFFERENT WALL FINISH MATERIALS, ON MOLDING OR BREAK IN WALL SURFACE, IN VIOLATION OF CODE

REQUIREMENTS, AS NOTED OR DIRECTED. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING AND CONFIRMING

ALL MOUNTING HEIGHTS WITH ARCHITECT AND ARCHITECTURAL DRAWINGS. 23. WIRE COLOR CODING: AS PER CODE. WHERE COLOR-CODED CABLE IS NOT AVAILABLE, CERTIFY IN WRITING AND REQUEST PERMISSION FOR OVERLAP COLOR TAPING OF CONDUCTORS (MINIMUM LENGTH 6") IN ACCESSIBLE LOCATIONS. COLOR CODING, ONCE SELECTED, MUST BE USED CONSISTENTLY FOR THE ENTIRE PROJECT.

24. INSTALL NEW WORK AND CONNECT TO EXISTING WORK WITH MINIMUM. INTERFERENCE TO EXISTING FACILITIES. TEMPORARY SHUTDOWNS: ONLY WITH WRITTEN CONSENT OF OWNER. MAINTAIN CONTINUOUS OPERATION OF EXISTING FACILITIES. ALARM AND EMERGENCY SYSTEMS ARE NOT TO BE INTERRUPTED.

25. FIRESTOPPING SHALL BE INSTALLED WHENEVER WIRING OR RACEWAYS CROSS FIRE RATED CONSTRUCTION.

26. LIGHTING FIXTURE SCHEDULE STANDARD NOTE: LIGHTING FIXTURE SCHEDULE SHOWN ON ENGINEER'S DRAWINGS ARE FOR INFORMATION PURPOSES ONLY. LIGHTING FIXTURES SHOWN ARE THOSE SELECTED BY ARCHITECT. ENGINEER SHALL NOT BE RESPONSIBLE FOR INFORMATION SHOWN RELATED TO FIXTURE SELECTION AND OVERALL LIGHTING DESIGN. REFER TO ARCHITECTURAL DRAWINGS FOR FURTHER INFORMATION.

ELECTRICAL DRAWING INDEX		
DRAWING NO.	DRAWING TITLE	
E00-01	ELECTRICAL COVER SHEET	
E00-10	ELECTRICAL SCHEDULES	
E00-20	ELECTRICAL DETAILS	
E00-30	ELECTRICAL SPECIFICATIONS	
E00-31	ELECTRICAL SPECIFICATIONS	
E01-01	RICHARDS 7 — ELECTRICAL LIGHTING DEMOLITION PLAN — WEST	
E01-02	RICHARDS 8 — ELECTRICAL LIGHTING DEMOLITION PLAN — WEST	
E01-03	RICHARDS 8 — ELECTRICAL LIGHTING DEMOLITION PLAN — EAST	
E01-04	RICHARDS 9 — ELECTRICAL LIGHTING DEMOLITION PLAN — WEST	
E01-05	RICHARDS 9 — ELECTRICAL LIGHTING DEMOLITION PLAN — EAST	
E02-01	RICHARDS 7 - ELECTRICAL POWER DEMOLITION PLAN - WEST	
E02-02	RICHARDS 8 — ELECTRICAL POWER DEMOLITION PLAN — WEST	
E02-03	RICHARDS 8 — ELECTRICAL POWER DEMOLITION PLAN — EAST	
E02-04	RICHARDS 9 — ELECTRICAL POWER DEMOLITION PLAN — WEST	
E02-05	RICHARDS 9 — ELECTRICAL POWER DEMOLITION PLAN — EAST	
E02-06	RICHARDS ROOF - ELECTRICAL POWER DEMOLITION PLAN - WEST	
E02-07	RICHARDS ROOF - ELECTRICAL POWER DEMOLITION PLAN - EAST	
E03-01	RICHARDS 7 — ELECTRICAL LIGHTING PLAN — WEST	
E03-02	RICHARDS 8 — ELECTRICAL LIGHTING PLAN — WEST	
E03-03	RICHARDS 8 — ELECTRICAL LIGHTING PLAN — EAST	
E03-04	RICHARDS 9 — ELECTRICAL LIGHTING PLAN — WEST	
E03-05	RICHARDS 9 — ELECTRICAL LIGHTING PLAN — EAST	
E04-01	RICHARDS 7 - ELECTRICAL POWER PLAN - WEST	
E04-02	RICHARDS 8 - ELECTRICAL POWER PLAN - WEST	
E04-03	RICHARDS 8 - ELECTRICAL POWER PLAN - EAST	
E04-04	RICHARDS 9 - ELECTRICAL POWER PLAN - WEST	
E04-05	RICHARDS 9 — ELECTRICAL POWER PLAN — EAST	

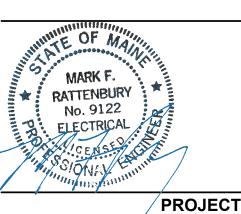
225 Franklin Street, Suite 1100 Boston, MA 02110 t 617.478.0300 f 617.478.0321

www.perkinswill.com

CONSULTANTS

AKF GROUP LLC 99 Bedford St., 2nd Floor Boston, MA 02111 t 617.737.1111 f 617.737.4311

> STRUCTURA SGH INC. 41 Seyon St. Waltham, MA 02453 t 781.907.9000 f 781.907.9009



RELOCATION 22 Bramhall Street Portland, Maine 04102



MAINE MEDICAL CENTER 22 Bramhall Street Portland, Maine 04102

06.24.2016

ISSUE CHART

ISSUED FOR PERMIT 06.24,2016

NO ISSUE DATE B160089-000 TITLE

> **ELECTRICAL COVER SHEET**

SHEET NUMBER

E00-01

Copyright @ 2016 Perkins+Will

E04-06 RICHARDS ROOF - ELECTRICAL POWER PLAN - EAST