



228 VARICK STREET, SUITE 301
NEW YORK, NY 10014

CONCORD
NORTH CAROLINA

submission:	Date
OWNER/LL REVIEW	11/01/2018
BID SET	11/01/2018
PERMIT SET	11/01/2018

#	Description	Date



NOV 02 2018

ELECTRICAL
ROOF PLAN
E500

general notes

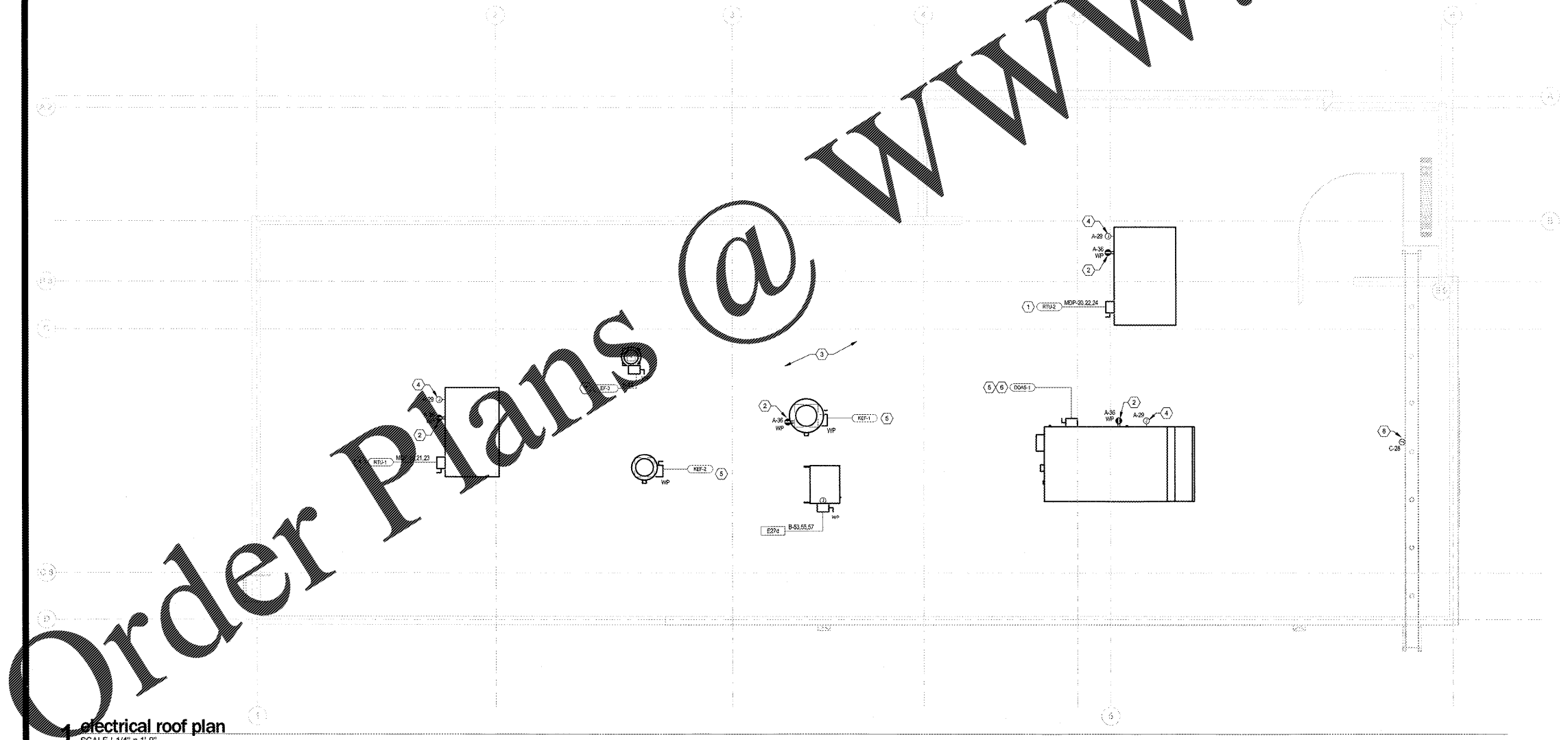
- A. DISCONNECTS AT ALL MECHANICAL EQUIPMENT FURNISHED WITH EQUIPMENT.
- B. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR ALL ELECTRICAL WORK SHOWN ON THE MECHANICAL DRAWINGS, (EXCEPT LOW VOLTAGE).
- C. ROUTE ALL CONDUITS CONCEALED (INSIDE WALLS AND/OR ABOVE CEILING) WHERE POSSIBLE.
- D. SEE MECHANICAL & PLUMBING ROOF PLANS FOR ADDITIONAL ROOF INFORMATION.
- E. ALL ELECTRICAL CONDUITS PENETRATING THE ROOF SHALL GO THROUGH ROOF CONDUIT CURBS INSTALLED BY GENERAL CONTRACTOR & ROOFING CONTRACTOR. E.C. SHALL COORDINATE, INSTALL PER ROOFING MANUFACTURER'S RECOMMENDATIONS AND DETAILS.
- F. ALL CONDUITS FOR ROOF TOP EQUIPMENT SHALL BE RUN BELOW ROOF DECK TO ELIMINATE TRIPPING HAZARDS AND ALSO PROVIDE CONDUITORS FOR SOLAR HEATING. NEC 310.15.
- G. ALL BOXES/EQUIPMENT ON ROOF SHALL BE NEMA 3R.
- H. ELECTRICAL CONTRACTOR TO PROVIDE SUBSTRUCTURE FOR HANGING AND ATTACHMENT OF ALL SUSPENDED FIXTURES BETWEEN STEEL JOISTS.
- I. REFER TO KITCHEN EQUIPMENT CONSULTANT DRAWING FOR EXACT ROUGH INDICATION OF MOUNTING HEIGHTS AND ADDITIONAL REQUIREMENTS FOR ALL EQUIPMENT TAGS SHOWN ON THIS SHEET INCLUDING KITCHEN EQUIPMENT CONNECTIONS, KDS EQUIPMENT AND FDS OUTLET LOCATIONS.
- J. REFER TO KITCHEN EQUIPMENT ELECTRICAL SCHEDULE ON SHEET E500 AND MECHANICAL EQUIPMENT SCHEDULE ON FOOD SERVICE EQUIPMENT CONNECTION INFORMATION FOR ALL EQUIPMENT WITH TAGS SHOWN ON THIS SHEET.

keyed notes

- 1. WEATHERPROOF NEMA 3R SAFETY DISCONNECT SWITCHES ARE FACTORY INSTALLED IN ALL UTUS AND PROVIDED WITH PANS. E.C. SHALL ROUTE CIRCUITS TO DISCONNECT SWITCH VIA BOTTOM ENTRY OF CURB ON ROOF EQUIPMENT. COORDINATE W/M.C. AND G.C.
- 2. WEATHERPROOF GFI RECEPTACLE IS FACTORY INSTALLED. E.C. SHALL ROUTE ALL CIRCUITS TO RECEPTACLE VIA BOTTOM POWER ENTRY IN CURB.
- 3. ALL ELECTRICAL CONDUITS PENETRATING ROOF SHALL GO THROUGH PITCH POCKETS INSTALLED BY G.C. E.C. & G.C. SHALL COORDINATE, INSTALL PER ROOFING MANUFACTURER'S RECOMMENDATIONS AND DETAILS.
- 4. SUPPLY 120 VOLTS POWER TO DUCT SMOKE DETECTORS (FURNISHED BY MECHANICAL CONTRACTOR. INSTALLED AND WIRED BY ELECTRICAL CONTRACTOR). CONNECT WITH HVAC CONTROL SYSTEM SUCH THAT ACTIVATION OF SMOKE DETECTOR WILL SHUT DOWN SUPPLY FAN. VERIFY PROPER OPERATION.
- 5. POWER CONNECTION ROUTED DOWN THROUGH STARTERS IN KITCHEN HOOD CONTROL PANEL. REFER TO CAPTIVE AIR HOOD DRAWINGS FOR ADDITIONAL INFORMATION. SEE POWER PLAN FOR HOME-RUN/CIRCUITS.
- 6. DEDICATED OUTSIDE AIR SYSTEM FURNISHED BY CAPTIVE/AIRE AND INSTALLED BY M.C. WEATHERPROOF NEMA 3R SAFETY DISCONNECT SWITCH IS FACTORY INSTALLED IN UNIT AND PROVIDED WITH PANS. E.C. SHALL ROUTE CIRCUITS TO DISCONNECT SWITCH VIA BOTTOM ENTRY OF CURB ON UNIT. COORDINATE W/M.C. AND G.C.
- 7. EXHAUST FAN SERVING RESTROOM TO BE CONTROLLED BY TIMECLOCK.
- 8. PROVIDE 120 VOLT JUNCTION BOX FOR ROOF ACCENT LIGHTING. COORDINATE EXACT LOCATION PRIOR TO ROUGH-IN. EXACT LIGHTING TO BE DETERMINED.

Electrical Mechanical Equipment Schedule												
Equipment Identification		Equipment Electrical Characteristics			Equipment Circuit			Equipment Disconnect			Comments	
Equipment	Description	Phase	Voltage Nominal	MCA	Load	MOCP	Number of Poles	Conduit and Wire Size	Ampacity Rating	Enclosure Type		Disconnect Switch Type
DGAS-1	Dedicated Outside Air System	3	208 V	53.5 A	12753 VA	80.0 A	3	(3) #6 + (1) #10G IN 3/4" C.	60.0 A	NEMA 3R	NON-FUSED	WP
EF-3	Exhaust Fan	1	120 V	1.3 A	120 VA	15.0 A	1	(2) #12 + (1) #12G IN 3/4" C.	20.0 A	NEMA 3R	NON-FUSED	WP
KEF-1	Exhaust Fan	1	120 V	13.8 A	1320 VA	20.0 A	1	(2) #12 + (1) #12G IN 3/4" C.	30.0 A	NEMA 3R	NON-FUSED	WP
KEF-2	Exhaust Fan	1	120 V	4.8 A	456 VA	20.0 A	1	(2) #12 + (1) #12G IN 3/4" C.	30.0 A	NEMA 3R	NON-FUSED	WP
RTU-1	Roof Top Unit	3	208 V	30.0 A	1040 VA	45.0 A	3	SEE ELECTRICAL RISER DIAGRAM ON SHEET E500	60.0 A	NEMA 3R	NON-FUSED	WP
RTU-2	Roof Top Unit	3	208 V	47.7 A	1516 VA	60.0 A	3	SEE ELECTRICAL RISER DIAGRAM ON SHEET E500	60.0 A	NEMA 3R	NON-FUSED	WP

- MOTOR SCHEDULE NOTES:**
- M1. REFER TO MECHANICAL DRAWINGS FOR EXACT SIZE, LOCATION, AND ELECTRICAL REQUIREMENTS FOR ALL MOTORS AND MECHANICAL EQUIPMENT. COORDINATE WITH MECHANICAL CONTRACTOR AND PROVIDE ELECTRICAL CONNECTIONS AS REQUIRED FOR A COMPLETE AND OPERABLE SYSTEM.
 - M2. 'ME' DENOTES EQUIPMENT FURNISHED UNDER DIVISION 15, INSTALLED AND WIRED UNDER DIVISION 16.
 - M3. 'EE' DENOTES EQUIPMENT FURNISHED, INSTALLED AND WIRED UNDER DIVISION 15.
 - M4. VERIFY CONTROL REQUIREMENTS OF ALL 3 PHASE MOTORS WITH MECHANICAL AND CONTROL CONTRACTORS. ALL MOTORS STARTED BY AUTOMATIC DEVICES OR INTERLOCKED TO START WITH OTHER MOTORS SHALL BE PROVIDED WITH HAND-OFF-AUTO SELECTOR SWITCHES. ALL MOTORS WITH MANUAL CONTROL ONLY SHALL BE PROVIDED WITH STOP-START PUSHBUTTONS.
 - M5. CONTROL PANEL, (INCLUDING STARTERS, ALARMS, ETC.) AND INTERLOCK CONTROL WIRING SHALL BE FURNISHED AND INSTALLED BY EQUIPMENT SUPPLIER. POWER WIRING SHALL BE PROVIDED BY THIS CONTRACTOR.
 - M6. CONTRACTOR SHALL COORDINATE ALL WORK WITH ARCHITECT, GENERAL CONTRACTOR, ETC. AND WORK OF ALL OTHER TRADES.
 - M7. 'MM' DENOTES EQUIPMENT FURNISHED, INSTALLED AND WIRED BY DIVISION 15.
 - M8. WIRE THROUGH HOOD CONTROL PANEL. REFER TO MECHANICAL AND HOOD VENDOR DRAWING FOR EXACT WIRING REQUIREMENTS.
 - M9. CONTROLLED VIA RESTROOM WALL SWITCHES.
 - M10. CONTROLLED VIA WASH AREA WALL SWITCH.



1 electrical roof plan
SCALE | 1/4" = 1'-0"