



1 ELECTRICAL POWER & SIGNAL PLAN - LEVEL ONE

E3.0 SCALE: 1/8" = 1'-0"

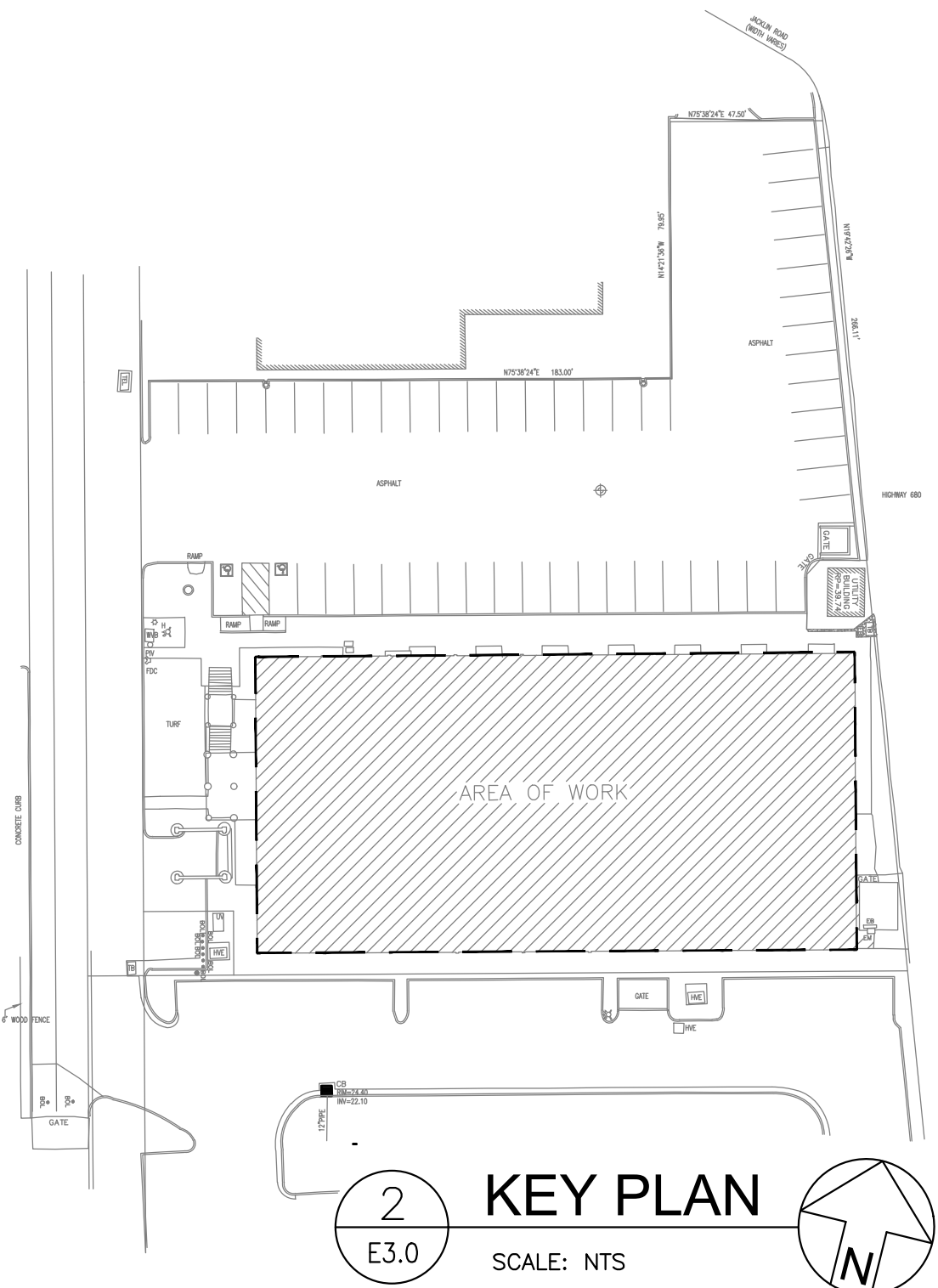
GENERAL NOTES:

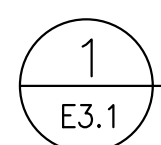
- ALL WIRING TO BE COPPER "THWN," UNLESS OTHERWISE NOTED. SEE PANEL SCHEDULE FOR SIZING.
- ELECTRICAL CONTRACTOR TO SUPPLY OWNER WITH DRAWINGS OF THE AS-BUILT CONDITION OF THE WIRING SYSTEM UPON COMPLETION.
- ALL CONSTRUCTION OF THIS PROJECT SHALL CONFORM TO ALL LOCAL CODES, ORDINANCES AND CURRENT ELECTRIC & BUILDING CODES.
- THE ELECTRICAL CONTRACTOR SHALL COMPLY WITH ALL LOCAL COUNTY, STATE AND FEDERAL CODES, ORDINANCES, RULES AND REGULATIONS INCLUDING ALL REQUIREMENTS OF GOVERNING AGENCIES. ELECTRICAL CONTRACTOR SHALL PAY ALL COSTS, ASSOCIATED WITH THE INSTALLATION, INCLUDING BUILDING APPLICATION FEES, ETC.
- ALL RECEPTACLES OUTLETS ON BRANCH CIRCUITS OF 30-AMPERES OR LESS AND COMMUNICATION SYSTEM RECEPTACLES SHALL BE LOCATED NO MORE THAN 48 INCHES MEASURED FROM THE TOP OF THE RECEPTACLE OUTLET BOX OR RECEPTACLE HOUSING NO LESS 15 INCHES MEASURED TO THE BOTTOM OF THE RECEPTACLE OUTLET BOX OR RECEPTACLE HOUSING ABOVE FINISHED FLOOR.
- ALL CONTROLS AND SWITCHES INTENDED TO BE USED BY THE OCCUPANT OF THE ROOM OR AREA TO CONTROL LIGHTING AND RECEPTACLES OUTLETS, APPLIANCES OR COOLING, HEATING AND VENTILATING EQUIPMENT, SHALL BE LOCATED NO MORE THAN 48 INCHES MEASURED FROM THE TOP OF THE JUNCTION OR DEVICE BOX NOR LESS THAN 15 INCHES MEASURED TO THE BOTTOM OF THE JUNCTION OR DEVICE BOX ABOVE THE FINISHED FLOOR.
- FOR ELECTRICAL PENETRATIONS OF FIRE-RATED WALLS, PROVIDE PROTECTION PER 2022 CBC CHAPTER 7 PENETRATIONS ON OPPOSITE SIDES OF THE WALL SHALL BE SEPARATED BY ONE OF THE FOLLOWING:
A. CAVITY FILLED WITH CELLULOSE LOOSE-FILL, ROCKWOOL OR SLAG MINERAL WOOL INSULATION
B. HORIZONTAL DISTANCE OF NOT LESS THAN 24 INCHES
C. SOLID FIREBLOCKING
D. PROTECTING BOTH OUTLET BOXES WITH LISTED MATERIALS AND METHODS.
- ALL ELECTRICAL ROUGH-INS SHOWN ON THIS PLAN PERTAINS ONLY TO THE EQUIPMENT BEING FURNISHED BY VENDOR. ANY ADDITIONAL REQUIREMENTS SHALL BE SPECIFIED BY THE OWNER AND/OR THE GENERAL CONTRACTOR.
- ALL JUNCTION BOXES AND ELECTRICAL OUTLETS AS WELL AS ELECTRICAL CONNECTIONS SHALL BE PROPERLY PROTECTED FROM AMBIENT HEAT, HUMIDITY AND ANY SIMILAR CONDITIONS WHICH MAY AFFECT THE SAFETY OF THE OPERATION.
- ALL DISCONNECTING MEANS SHALL BE IDENTIFIED FOR ITS PURPOSE PER 2022 EDITION OF CEC ARTICLE 110.22.
- EVERY STRUCTURE AND PORTION THEREOF, INCLUDING NONSTRUCTURAL COMPONENTS THAT ARE PERMANENTLY ATTACHED TO STRUCTURES AND THEIR SUPPORTS AND ATTACHMENTS, SHALL BE DESIGNED AND CONSTRUCTED TO RESIST THE EFFECTS OF EARTHQUAKE MOTIONS IN ACCORDANCE WITH ASCE 7, EXCLUDING CHAPTER 14 AND APPENDIX 11A. THE SEISMIC DESIGN CATEGORY FOR A STRUCTURE IS PERMITTED TO BE DETERMINED IN ACCORDANCE WITH SECTION 1613 OR ASCE 7.
- ALL DISCONNECTING MEANS AND ELECTRICAL EQUIPMENT SHALL BE INSTALLED PER 2022 CEC 110.3(B) OR PER THE LISTING AND LABELING INSTRUCTIONS BY THE MANUFACTURERS.
- ALL 15- AND 20-AMPERE, 120- AND 250-VOLT RECEPTACLES INSTALLED IN A WET LOCATION SHALL HAVE AN ENCLOSURE THAT IS WEATHERPROOF WHETHER OR NOT THE ATTACHMENT PLUG CAP IS INSERTED.
- INSTALL BUSHING ON ALL RACEWAY ENTRIES CONNECTORS THAT CONTAIN 4 AWG OR LARGER CONDUCTORS.
- PROVIDE A SEPARATE NEUTRAL CONDUCTOR FOR EACH AND EVERY PHASE (LINE) CONDUCTOR, TO COMPLY WITH 2022 CEC ARTICLE 210.4 FOR MULTI-WIRE CIRCUITS AND TO PERMIT INDIVIDUAL OPERATION/CONTROL OF EACH BRANCH CIRCUIT OR PROVIDE THE HANDLE ON BREAKERS TO SUIT SINGLE NEUTRAL ON MULTI-CIRCUITS HOMERUNS- NEUTRAL MUST BE MINIMUM #10 ON MULTI CIRCUITS.
- ELECTRICAL PLANS ARE INTENDED TO SHOW, IN A GENERAL WAY, THE APPROXIMATE LOCATION AND LOADS OF THE INTENDED FIXTURE AND EQUIPMENT. EXACT LOCATIONS AND LOADS OF THE INTENDED FIXTURE AND EQUIPMENT SHALL BE DETERMINED IN THE FIELD BY THE INSTALLING CONTRACTOR AND SHALL CONFORM TO THE PROVISIONS AS SET FORTH IN THE 2022 EDITIONS OF THE CALIFORNIA ELECTRICAL CODE, CALIFORNIA ENERGY CODE AND THE CALIFORNIA GREEN BUILDING CODE.

SHEET NOTES:

- ELECTRICAL CONTRACTOR TO COORDINATE WITH ARCHITECT OR OWNER THE FINAL LOCATION/MOUNTING HEIGHT OF RECEPTACLE, TELEPHONE AND DATA OUTLET UPON INSTALLATION.
- EXISTING PANEL AND MSB. ELECTRICAL CONTRACTOR TO FIELD VERIFY EXACT LOCATION AND CONDITION. MAINTAIN A 3 FT CLEARANCE IN FRONT OF EQUIPMENT.
- ELECTRICAL CONTRACTOR TO VERIFY AND COORDINATE WITH ARCHITECT OR OWNER THE REQUIRED TYPE OF CONNECTION FOR THE EQUIPMENTS.
- ELECTRICAL CONTRACTOR TO VERIFY AND COORDINATE LOCATION OF EQUIPMENT PRIOR TO INSTALLATION.
- EXISTING RECEPTACLES TO REMAIN. FIELD VERIFY EXACT LOCATION AND CONDITION. REPLACE AS NECESSARY.
- PROVIDE JUNCTION BOX AS POWER FOR NEW BOOSTER FAN. COORDINATE ALL WORKS WITH MECHANICAL CONTRACTOR PRIOR TO INSTALLATION.
- EXISTING SAUNA TO REMAIN. ELECTRICAL CONTRACTOR TO PROVIDE ALL NECESSARY WIRING MODIFICATIONS AS REQUIRED TO MAINTAIN EQUIPMENT IN SERVICE.
- NEW PANEL. ELECTRICAL CONTRACTOR TO COORDINATE EXACT LOCATION PRIOR TO INSTALLATION. MAINTAIN A 3 FT CLEARANCE IN FRONT OF EQUIPMENT.

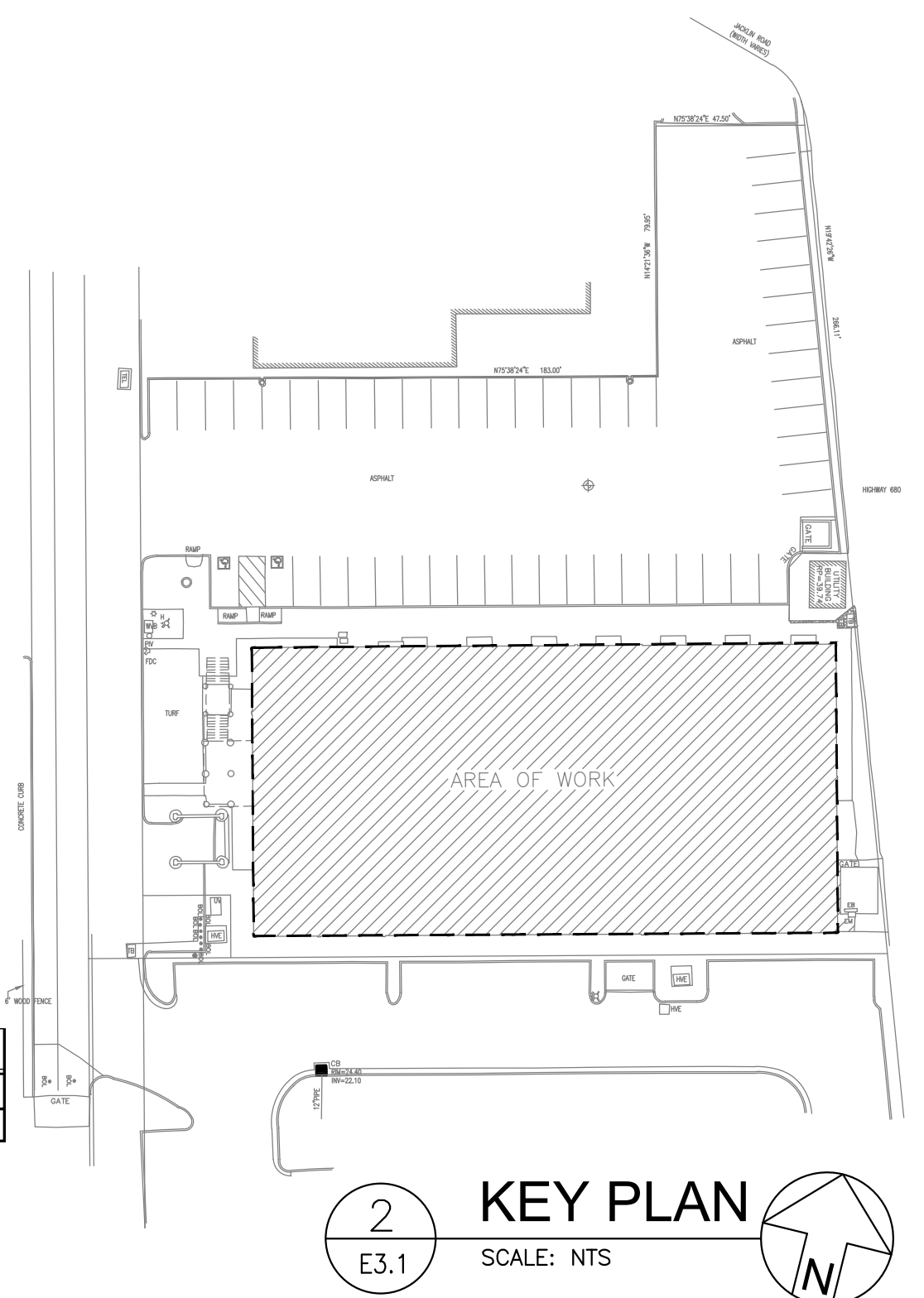
EQUIPMENT SCHEDULE 34										
CODE	QTY.	DESCRIPTION	MANUFACTURER	MODEL NO.	VOLTAGE	PHASE	MOC ²	AMPS	VA	TYPE OF CONNECTION
CD	1	CLOTHES DRYER	BY OWNER	BY OWNER	208	1	30	24.0	4992	NEMA TYPE RECEPTACLE
CW	1	CLOTHES WASHER	BY OWNER	BY OWNER	120	1	20	10.0	1200	NEMA TYPE RECEPTACLE
BF-1	1	BOOSTER FAN	TACO	1135	120	1	20	2.9	342	JUNCTION BOX



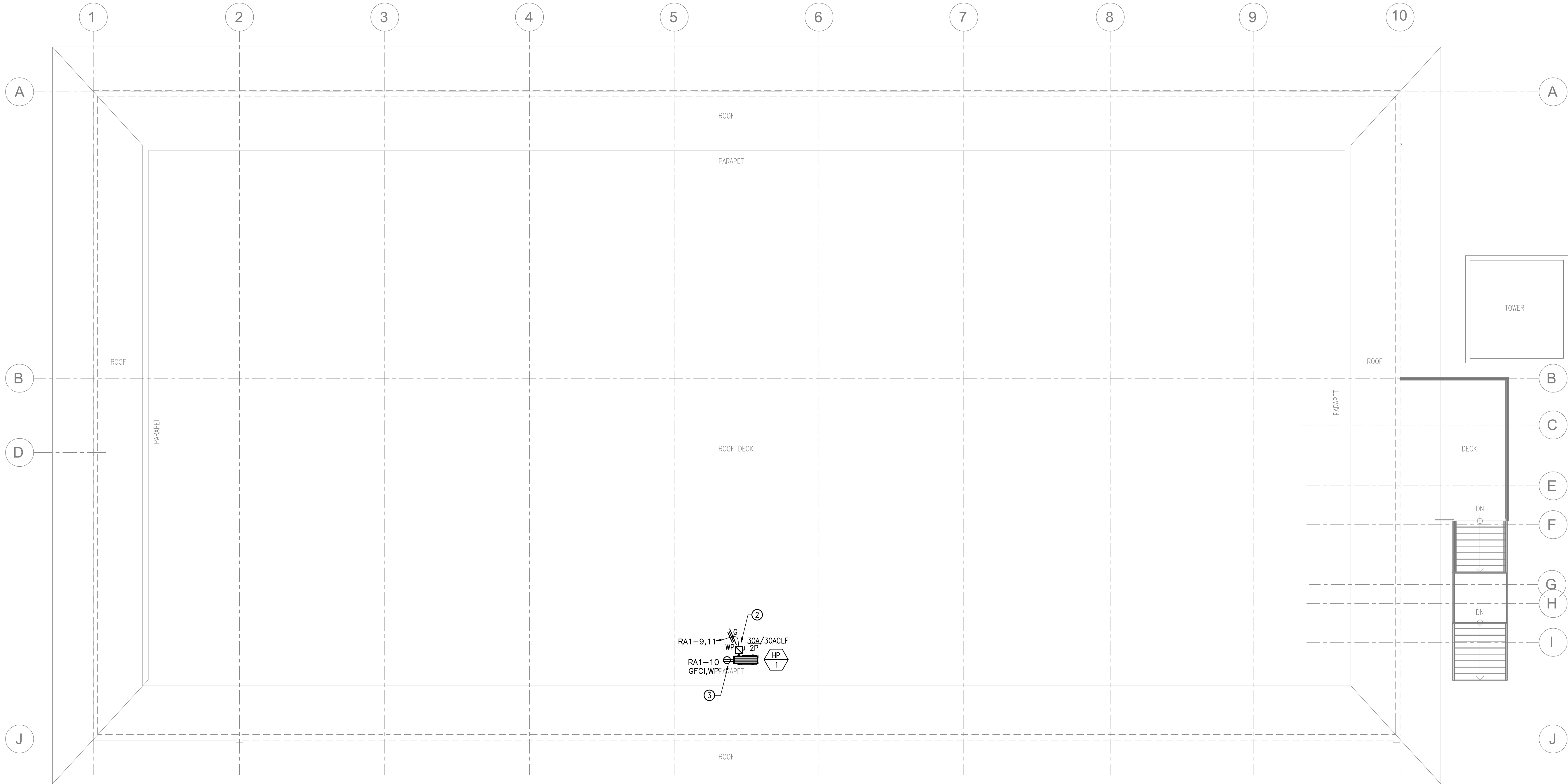


9. ALL JUNCTION BOXES AND ELECTRICAL OUTLETS AS WELL AS ELECTRICAL CONNECTIONS SHALL BE PROPERLY PROTECTED FROM AMBIENT HEAT, HUMIDITY AND ANY SIMILAR CONDITIONS WHICH MAY AFFECT THE SAFETY OF THE OPERATION.
10. ALL DISCONNECTING MEANS SHALL BE IDENTIFIED FOR ITS PURPOSE PER 2022 EDITION OF CEC ARTICLE 110.22.
11. EVERY STRUCTURE AND PORTION THEREOF, INCLUDING NONSTRUCTURAL COMPONENTS THAT ARE PERMANENTLY ATTACHED TO STRUCTURES AND THEIR SUPPORTS AND ATTACHMENTS, SHALL BE DESIGNED AND CONSTRUCTED TO RESIST THE EFFECTS OF EARTHQUAKE MOTIONS IN ACCORDANCE WITH ASCE 7, EXCLUDING CHAPTER 14 AND APPENDIX 11A. THE SEISMIC DESIGN CATEGORY FOR A STRUCTURE IS PERMITTED TO BE DETERMINED IN ACCORDANCE WITH SECTION 1613 OR ASCE 7.
12. ALL DISCONNECTING MEANS AND ELECTRICAL EQUIPMENT SHALL BE INSTALLED PER 2022 CEC 110.3(B) OR PER THE LISTING AND LABELING INSTRUCTIONS BY THE MANUFACTURERS.
13. ALL 15- AND 20-AMPERE, 120- AND 250-VOLT RECEPTACLES INSTALLED IN A WET LOCATION SHALL HAVE AN ENCLOSURE THAT IS WEATHERPROOF WHETHER OR NOT THE ATTACHMENT PLUG CAP IS INSERTED.
14. INSTALL BUSHING ON ALL RACEWAY ENTRIES CONNECTORS THAT CONTAIN 4 AWG OR LARGER CONDUCTORS.
15. PROVIDE A SEPARATE NEUTRAL CONDUCTOR FOR EACH AND EVERY PHASE (LINE) CONDUCTOR; TO COMPLY WITH 2022 CEC ARTICLE 210.4 FOR MULTI-WIRE CIRCUITS AND TO PERMIT INDIVIDUAL OPERATION/CONTROL OF EACH BRANCH CIRCUIT AND PROVIDE THE HANDLE ON BREAKERS TO SUIT SINGLE NEUTRAL ON MULTI-CIRCUITS HOMERUNS- NEUTRAL MUST BE MINIMUM #10 ON MULTI CIRCUITS.
16. ELECTRICAL PLANS ARE INTENDED TO SHOW, IN A GENERAL WAY, THE APPROXIMATE LOCATION AND LOADS OF THE INTENDED FIXTURE AND EQUIPMENT. EXACT LOCATIONS AND MATERIALS SHALL BE DETERMINED IN THE FIELD BY THE INSTALLING CONTRACTOR AND SHALL CONFORM TO THE PROVISIONS AS SET FORTH IN THE 2022 EDITIONS OF THE CALIFORNIA ELECTRICAL CODE, CALIFORNIA ENERGY CODE AND THE CALIFORNIA GREEN BUILDING CODE.

EQUIPMENT SCHEDULE ②③											
CODE	QTY.	DESCRIPTION	MANUFACTURER	MODEL NO.	VOLTAGE	PHASE	MOPC	AMPS	VA	TYPE OF CONNECTION	FEEDER
FCU-3	1	FAN COIL UNIT	SAMSUNG	AR18CSDABWKNKV	120	1	15	1.0	120	DISCONNECT SWITCH	3/4"CI)2)12 AWG & (1)12GND



SCALE: NTS



1 ELECTRICAL ROOF PLAN 4567

E3.2 SCALE: 1/8"=1'-0"

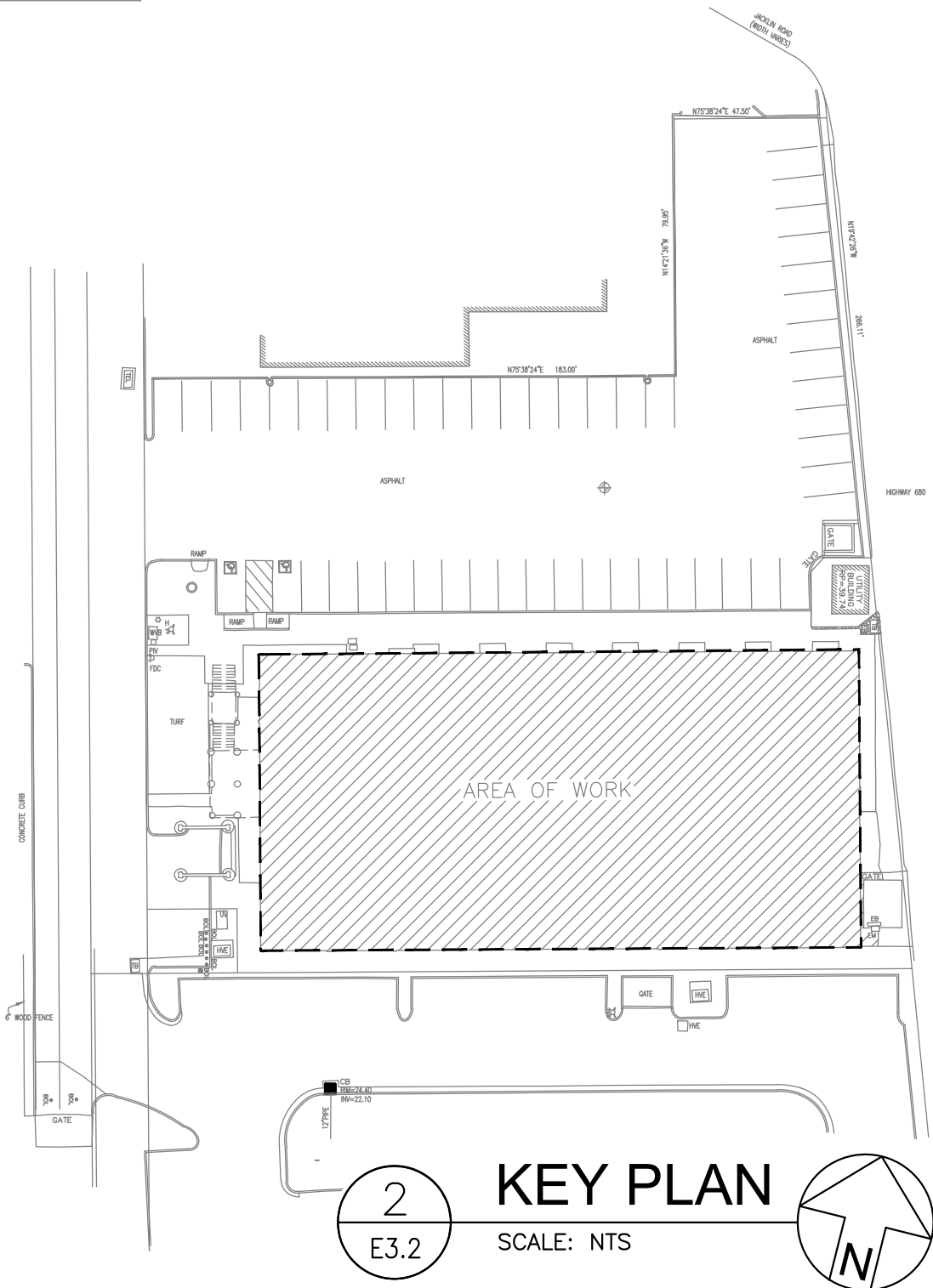
GENERAL NOTES:

- ALL WIRING TO BE COPPER "THWN," UNLESS OTHERWISE NOTED. SEE PANEL SCHEDULE FOR SIZING.
- ELECTRICAL CONTRACTOR TO SUPPLY OWNER WITH DRAWINGS OF THE AS-BUILT CONDITION OF THE WIRING SYSTEM UPON COMPLETION.
- ALL CONSTRUCTION OF THIS PROJECT SHALL CONFORM TO ALL LOCAL CODES, ORDINANCES AND CURRENT ELECTRIC & BUILDING CODES.
- THE ELECTRICAL CONTRACTOR SHALL COMPLY WITH ALL LOCAL COUNTY, STATE AND FEDERAL CODES, ORDINANCES, RULES AND REGULATIONS INCLUDING ALL REQUIREMENTS OF GOVERNING AGENCIES. ELECTRICAL CONTRACTOR SHALL PAY ALL COSTS, ASSOCIATED WITH THE INSTALLATION, INCLUDING BUILDING APPLICATION FEES, ETC.
- ALL ELECTRICAL ROUGH-INS SHOWN ON THIS PLAN PERTAINS ONLY TO THE EQUIPMENT BEING FURNISHED BY VENDOR. ANY ADDITIONAL REQUIREMENTS SHALL BE SPECIFIED BY THE OWNER AND/OR THE GENERAL CONTRACTOR.
- ALL DISCONNECTING MEANS SHALL BE IDENTIFIED FOR ITS PURPOSE PER 2022 EDITION OF CEC ARTICLE 110.22.
- EVERY STRUCTURE AND PORTION THEREOF, INCLUDING NONSTRUCTURAL COMPONENTS THAT ARE PERMANENTLY ATTACHED TO STRUCTURES AND THEIR SUPPORTS AND ATTACHMENTS, SHALL BE DESIGNED AND CONSTRUCTED TO RESIST THE EFFECTS OF EARTHQUAKE MOTIONS IN ACCORDANCE WITH ASCE 7, EXCLUDING CHAPTER 14 AND APPENDIX 11A, THE SEISMIC DESIGN CATEGORY FOR A STRUCTURE IS PERMITTED TO BE DETERMINED IN ACCORDANCE WITH SECTION 1613 OR ASCE 7.
- ALL DISCONNECTING MEANS AND ELECTRICAL EQUIPMENT SHALL BE INSTALLED PER 2022 CEC 110.3(B) OR PER THE LISTING AND LABELING INSTRUCTIONS BY THE MANUFACTURERS.
- INSTALL BUSHING ON ALL RACEWAY ENTRIES CONNECTORS THAT CONTAIN 4 AWG OR LARGER CONDUCTORS.
- ALL 15 AND 20-AMPERE, 125 AND 250-VOLT RECEPTACLES INSTALLED IN A WET LOCATION SHALL HAVE AN ENCLOSURE THAT IS WEATHERPROOF WHETHER OR NOT THE ATTACHMENT PLUG CAP IS INSERTED.
- ALL HVAC UNITS SHALL HAVE PROPERLY FUSED DISCONNECTING MEANS AND A GFCI PROTECTED RECEPTACLE SHALL BE INSTALLED WITHIN 25 FEET OF ALL HVAC AND VENTILATING EQUIPMENT ON THE ROOF.
- PROVIDE A SEPARATE NEUTRAL CONDUCTOR FOR EACH AND EVERY PHASE (LINE) CONDUCTOR; TO COMPLY WITH 2022 CEC ARTICLE 210.4 FOR MULTI-WIRE CIRCUITS AND TO PERMIT INDIVIDUAL OPERATION/CONTROL OF EACH BRANCH CIRCUIT OR PROVIDE THE HANDLE ON BREAKERS TO SUIT SINGLE NEUTRAL ON MULTI-CIRCUITS HOMERUNS - NEUTRAL MUST BE MINIMUM #10 ON MULTI CIRCUITS.
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SHEET NOTES:

- ELECTRICAL CONTRACTOR TO VERIFY AND COORDINATE WITH ARCHITECT/EQUIPMENT VENDOR THE EXACT LOCATION OF EQUIPMENT INCLUDING FINAL ELECTRICAL REQUIREMENTS PRIOR TO INSTALLATION.
- COORDINATE LOCATION OF DISCONNECT SWITCH WITH MECHANICAL VENDOR PRIOR TO INSTALLATION. PROVIDE FLEXIBLE LIQUIDTIGHT METAL CONDUIT BETWEEN DISCONNECT SWITCH AND TERMINATION POINT AT MECHANICAL UNIT.
- PROVIDE WEATHERPROOF AND GFCI PROTECTED RECEPTACLES WITHIN 25 FT. OF HVAC EQUIPMENT PER 2022 CEC ART. 210.63 & 406.9(B)(1).
- REFER TO EQUIPMENT SCHEDULE FOR THE SIZES OF WIRES/CABLES & CONDUITS AS WELL AS THE RATINGS OF FUSED DISCONNECTS.
- ALL CONDUITS PENETRATION ON ROOF MUST BE COORDINATED WITH ARCHITECT. PROVIDE FLASHING AND COUNTER FLASHING AND WATER TIGHT ALL CONDUITS PENETRATION ON ROOF. RUN ALL CONDUITS IN GROUP AND IN A WELL ORGANIZED MANNER.
- PROVIDE RIGID STEEL CONDUIT INCLUDING FITTINGS ON ALL CONDUITS ON ROOF AND EXTERIOR INSTALLATION.
- RUN FEEDER AND BRANCH CIRCUIT WIRING ON ROOF ALONG MECHANICAL PATH. PROVIDE ROOF SLEEPERS FOR PROPER CONDUIT SUPPORT AND INSTALLATION.

EQUIPMENT SCHEDULE ①											
CODE	QTY.	DESCRIPTION	MANUFACTURER	MODEL NO.	VOLTAGE	PHASE	MOCP	AMPS	VA	TYPE OF CONNECTION	FEEDER
HP-1	1	HEAT PUMP UNIT	SAMSUNG	AR18CSDABWKXCV	208	1	30	21.0	4368	DISCONNECT SWITCH	3/4"C(2)#10 AWG & (1)#10GND



2 KEY PLAN

E3.2 SCALE: NTS