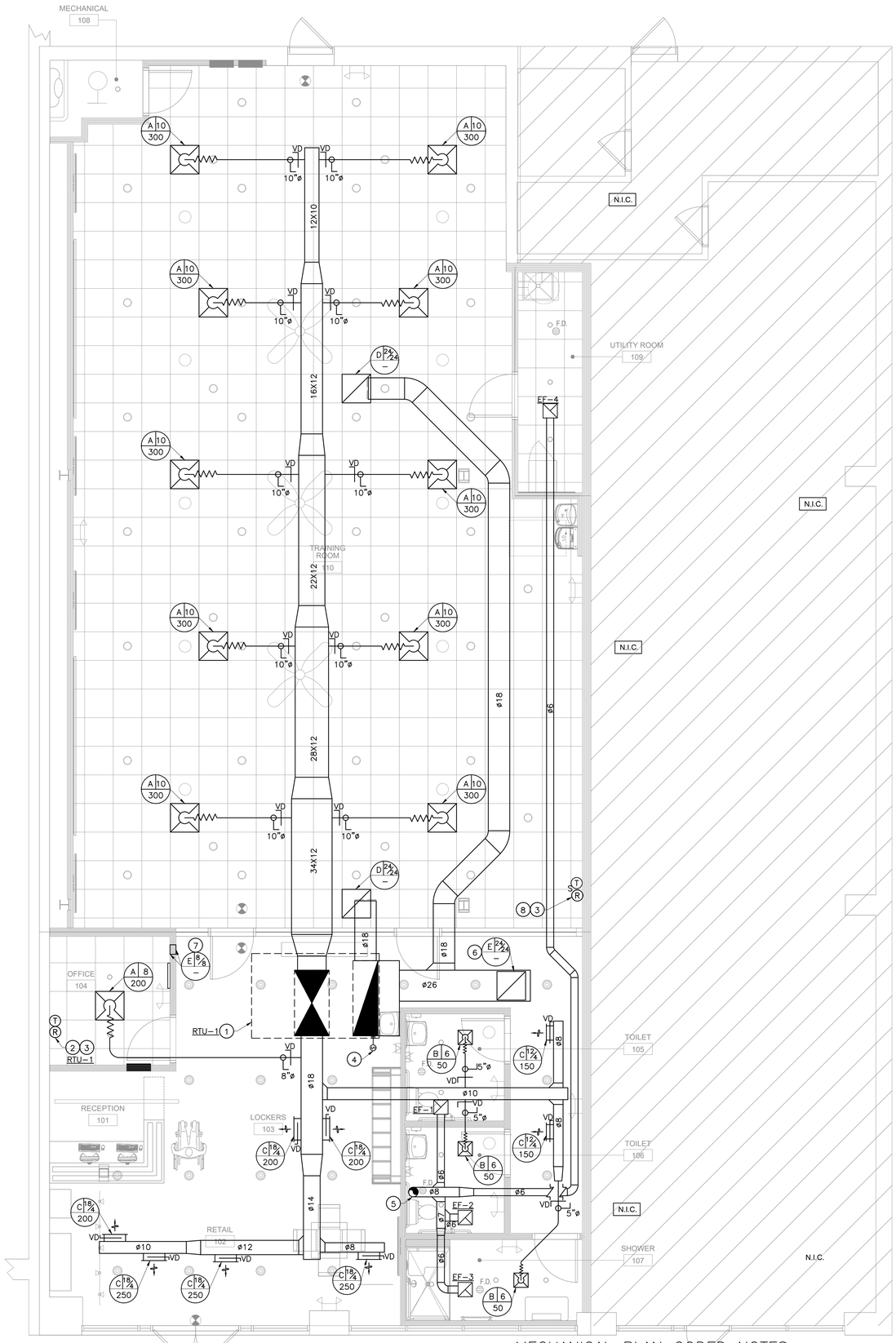
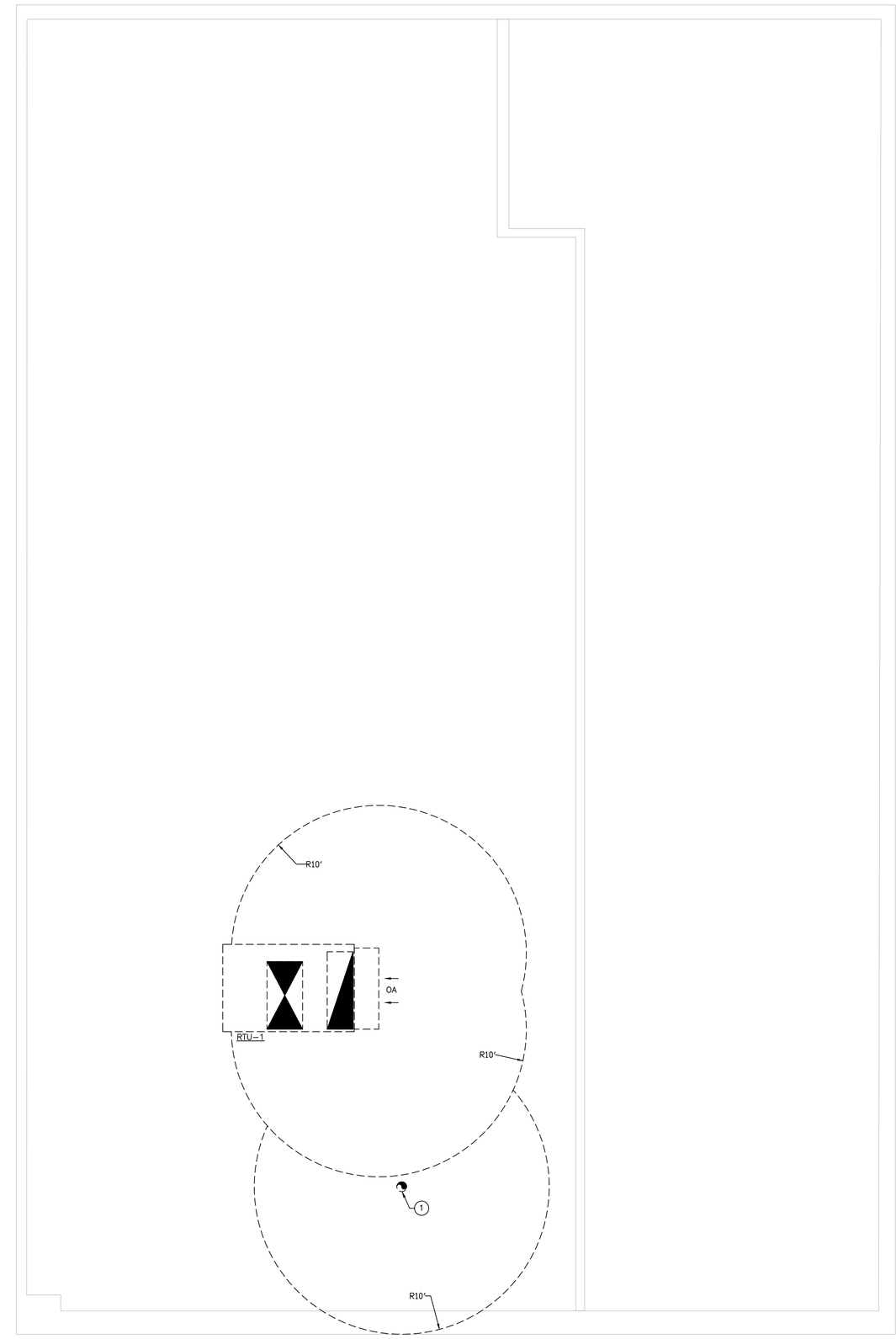



## MECHANICAL PLAN

1 / M1.0 SCALE: 1/4" = 1'-0"

## MECHANICAL PLAN CODED NOTES

1. CONNECT NEW SUPPLY/RETURN DUCT MAINS TO EXISTING DUCT DROP DOWNS FROM ROOFTOP UNITS. ACOUSTICALLY LINE THE FIRST 10'-0" OF BOTH SUPPLY AND RETURN MAIN DUCTS. SET UNIT OUTSIDE AIR QUANTITY AS LISTED ON ROOFTOP UNIT SCHEDULE. FANS TO RUN CONTINUOUSLY DURING OCCUPIED HOURS.
2. INSTALL AND WIRE NEW 7-DAY PROGRAMMABLE THERMOSTAT. COORDINATE EXACT LOCATION WITH ARCHITECT AND OWNER PRIOR TO ROUGH-IN.
3. MECHANICAL CONTRACTOR TO MOUNT SMOKE DETECTOR REMOTE KEY STATUS AND TEST STATIONS (WITH AUDIO AND VISUAL ALARM) NEXT TO UNIT THERMOSTAT. M.C. TO INDICATE DETECTOR SERVING AIR CONDITIONING UNIT. COORDINATE EXACT LOCATION WITH FIRE MARSHAL PRIOR TO ROUGH-IN. ALL WIRING SHALL BE BY ELECTRICAL CONTRACTOR IN CONDUIT PER N.E.C. REMOTE STATION SHALL BE A SYSTEM SENSOR MODEL SSK451 OR EQUAL.
4. SMOKE DETECTOR SHALL BE FURNISHED/INSTALLED BY MECHANICAL CONTRACTOR AND WIRED BY ELECTRICAL CONTRACTOR TO SHUT DOWN CORRESPONDING AIR CONDITIONING UNIT UNDER ALARM CONDITIONS. ALL WIRING SHALL BE IN CONDUIT PER N.E.C. SMOKE DETECTOR SHALL BE SENSOR MODEL DH100ACDCLP OR EQUAL.
5. ROUTE 8"ø EXHAUST DUCT UP THROUGH ROOF WITH TALL CONE FLASHING, WEATHER SKIRT, AND VENT CAP. MAINTAIN A MINIMUM OF 10'-0" FROM ALL OUTSIDE AIR INTAKES AND TERMINATES 36" ABOVE ROOF.
6. RETURN GRILLES TO BE MOUNTED ON TOP OF EXPOSED RETURN DUCTWORK.
7. CONTRACTOR TO INSTALL RETURN GRILLE LOW IN OFFICE, AND HIGH ON OTHER SIDE OF WALL.
8. TEMPERATURE SENSOR FOR THERMOSTAT SERVING DESIGNATED ROOF TOP UNIT.

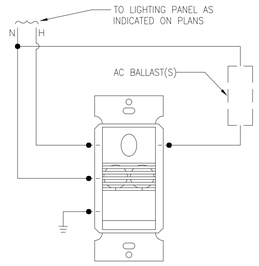



## MECHANICAL ROOF PLAN

2 / M1.0 SCALE: 1/4" = 1'-0"

## MECHANICAL ROOF PLAN CODED NOTES

1. EXHAUST DUCT UP THROUGH ROOF WITH TALL CONE FLASHING, WEATHER SKIRT, AND VENT CAP. MAINTAIN A MINIMUM OF 10'-0" FROM ALL OUTSIDE AIR INTAKES AND TERMINATES 36" ABOVE ROOF.

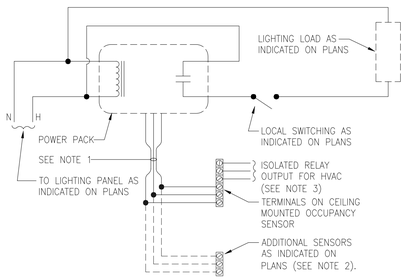



## VACANCY SENSOR SWITCH WIRING DIAGRAM

SCALE: NOT TO SCALE

NOTES:

1. ALL LOW VOLTAGE WIRING AND TERMINATIONS TO BE BY ELECTRICAL CONTRACTOR.
2. VACANCY SENSOR SHALL BE "SENSOR SWITCH" WSX-PDT-SA-WH OR APPROVED EQUAL.




## CEILING MOUNTED OCCUPANCY SENSOR WIRING DIAGRAM

SCALE: NOT TO SCALE

NOTES:

1. ALL LOW VOLTAGE WIRING AND TERMINATIONS TO BE BY ELECTRICAL CONTRACTOR.
2. MAXIMUM NUMBER OF SENSORS PER POWER PACK IS DEPENDANT ON MANUFACTURER. COORDINATE QUANTITY OF POWER PACKS WITH MANUFACTURER.
3. AUXILIARY RELAY IS ENERGIZED DURING 'UNOCCUPIED' STATE.
4. OCCUPANCY SENSOR SHALL BE DUAL TECHNOLOGY "SENSOR SWITCH" CM-PDT-10 OR APPROVED EQUAL. ALL EXPOSED CONTROL WIRING SHALL BE IN CONDUIT.

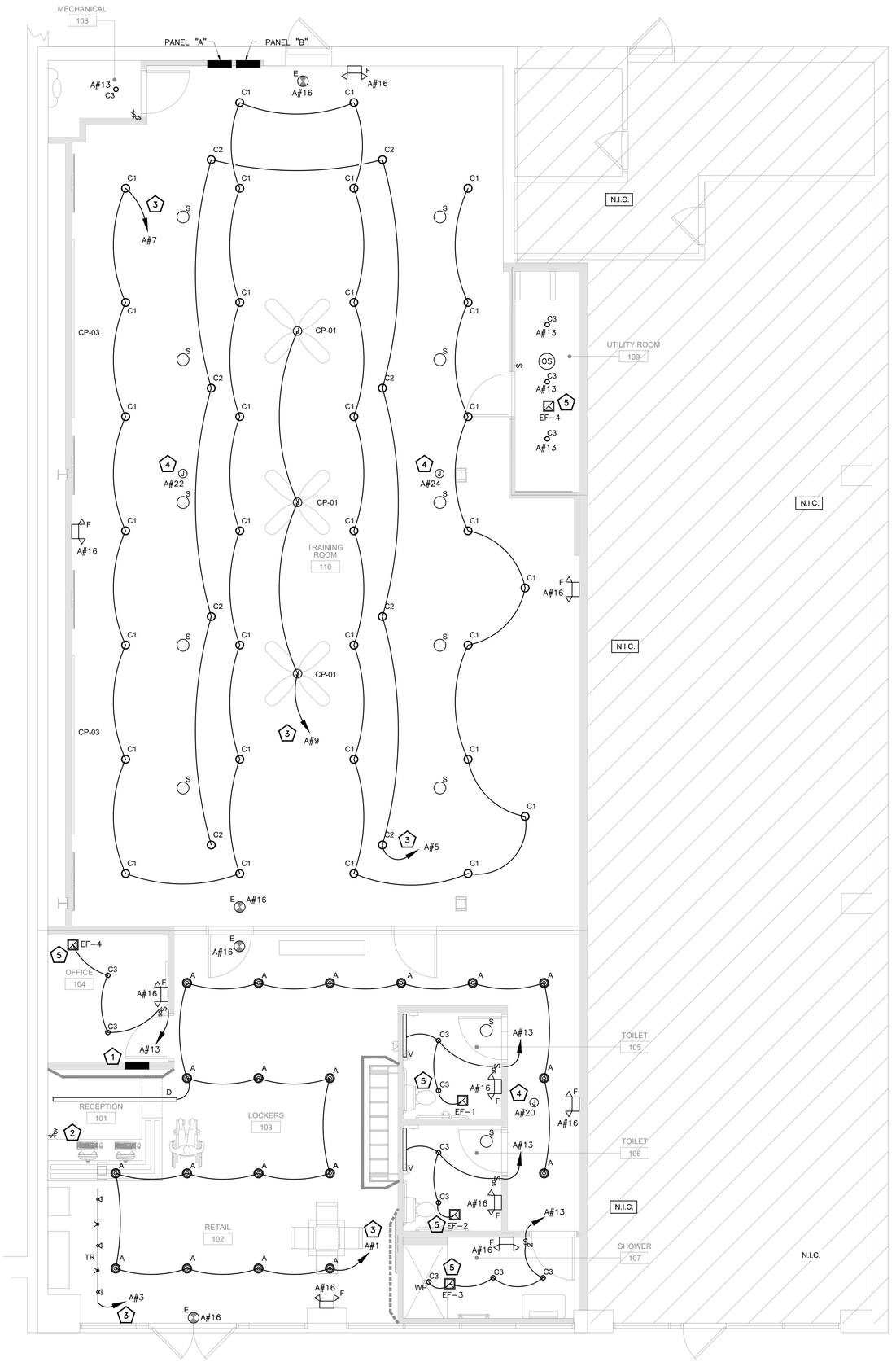
| LIGHT FIXTURE SCHEDULE | | | | |
|---|---|---|---|---|
| TYPE | WATTAGE LAMP | WATTAGE FIXTURE | DESCRIPTION | CATALOG NO. |
| A | LED | 46W | ELITE: 6" ARCHITECTURAL LED CYLINDER | ETFPENDANTBK001-4000L-MVOLT-MD-35K-90ETF6-MB-BK |
| C1 | LED | 9W | COLORBEAM: T SERIES KIT - FLUSH LIGHTS | T-150-22-9W-RGB-B40 |
| C2 | LED | 46W | ELITE: 6" ARCHITECTURAL HIGH LUMEN LED DOWNLIGHT | TFCAN6"WT002-LED-4000L-MVOLT-MD-35K-90ETF6-MB-BK |
| C3 | LED | 20W | ELITE: 4" ARCHITECTURAL HIGH LUMEN LED DOWNLIGHT | ETFCAN4"WT003-LED-1500L-MVOLT-MD-35K-90ETF4-WH-WH |
| D | LED | 9.5W/FT | ELITE: ARCHITECTURAL LED SUSPENDED LINEAR - DIRECT | ETFWALLFLOODBK001-LED-2"-S-7-8-1000L-WW-MVOLT-40K-85-BK-OCGSS |
| TR | LED | 15W | ELITE: ARCHITECTURAL LED TRACK HEAD | ETFTRACKKITBK001-200L-NFL-35K-90 |
| V | LED | 52W | NOVO: LIGHTED MIRROR | 695 LUMENS COLOR APERTURE: 3500K |
| E | LED | 2W | ELITE: LED EXIT SIGN WITH BATTERY BACK-UP | ETFEXIT001-603-G-W |
| F | LED | 1W | LED EMERGENCY LIGHT WITH BATTERY BACK-UP | ETFETFBUGEYE001-W |

LIGHTING FIXTURE SCHEDULE GENERAL NOTES:

1. VERIFY ALL FIXTURE COLORS, TRIMS, LENGTHS, ETC. WITH THE ARCHITECT PRIOR TO PLACING FINAL PURCHASE ORDERS. SUBMISSION OF SHOP DRAWINGS WILL BE INTERPRETED AS HAVING BEEN COORDINATED WITH THE ARCHITECTURAL DRAWINGS.
2. PROVIDE ALL LENGTHS, FEEDS, ACCESSORIES, CONNECTORS, WIRING, POWER SUPPLIES, DRIVERS, ETC. FOR A COMPLETE INSTALLATION. THE E.C. SHALL VERIFY THE COMPLETE BILL OF MATERIAL WITH MANUFACTURER'S REPRESENTATIVE AND INSURE ALL EQUIPMENT IS INCLUDED IN BID PRICE. COORDINATE INSTALLATION WITH ARCHITECTURAL DETAILS.
3. VERIFY TYPE OF CEILING OR WALL FOR ALL RECESSED LIGHTING FIXTURES PRIOR TO ORDERING.
4. PROVIDE ALL ADDITIONAL HARDWARE FOR FIXTURE MOUNTING AS REQUIRED AT NO EXTRA COST.
5. ALL WIRE WITHIN (3) THREE INCHES OF BALLASTS SHALL BE RATED A MINIMUM OF 90°C.
6. MINIMUM LENS THICKNESS TO BE .125 INCHES, WHERE LENSES ARE USED.
7. THE FIXTURE SCHEDULE DOES NOT NECESSARILY LIST ALL ACCESSORIES AND HARDWARE NECESSARY FOR THE COMPLETION OF INSTALLATION, NOR DOES IT DETAIL THE CEILING CONSTRUCTION TO BE ENCOUNTERED. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROPERLY DETERMINE AND PROVIDE CORRECT COMPONENTS, ACCESSORIES, AND HARDWARE AS REQUIRED FOR THE INSTALLATION.
8. CONTRACTOR SHALL COORDINATE WITH ARCHITECTURAL DRAWINGS AND CEILING CONTRACTOR FOR EXACT LIGHTING FIXTURE LOCATION.

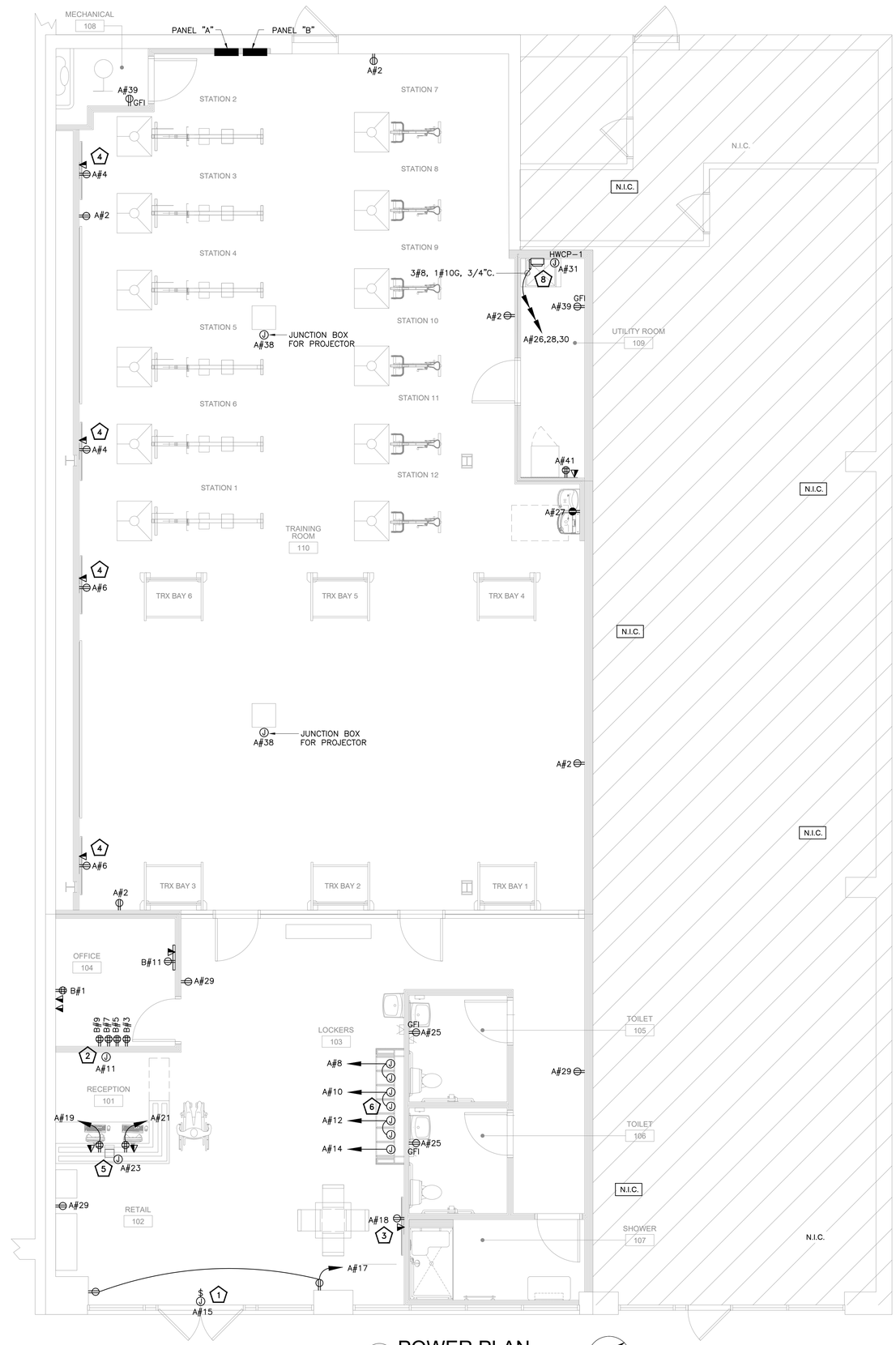
### ELECTRICAL LIGHTING PLAN KEYED WORK NOTES:

1. PROVIDE LIGHTING CONTROL PANEL WITH 6 RELAYS TO CONTROL CIRCUITS A#1,3,5,7,9,15 LC&D #GR1408-LT-ENC-SMNE1/GR1408LTINT-8NCL-DTC-DV. WIRE TO ROOM'S CONVENIENCE RECEPTACLE FOR 120V POWER. COORDINATE PROGRAMMING AND FINAL LOCATION WITH OWNER.
2. PROVIDE LOW VOLTAGE OVERRIDE SWITCH WITH CAT 5 CABLING TO LCP. DS1 = LC&D #CH5 WITH A BUTTON FOR EACH INTERIOR LIGHTING RELAY.
3. WIRE THROUGH RELAY IN 'LCP'.
4. JUNCTION BOX FOR CEILING MOUNTED SPEAKERS. COORDINATE LOCATION AND EXACT POWER REQUIREMENTS WITH MANUFACTURER PRIOR TO ROUGH-IN.
5. EXHAUST FAN IN THIS ROOM SHALL BE CONTROLLED ALONG WITH THE LIGHT FIXTURES IN THE SAME ROOM.

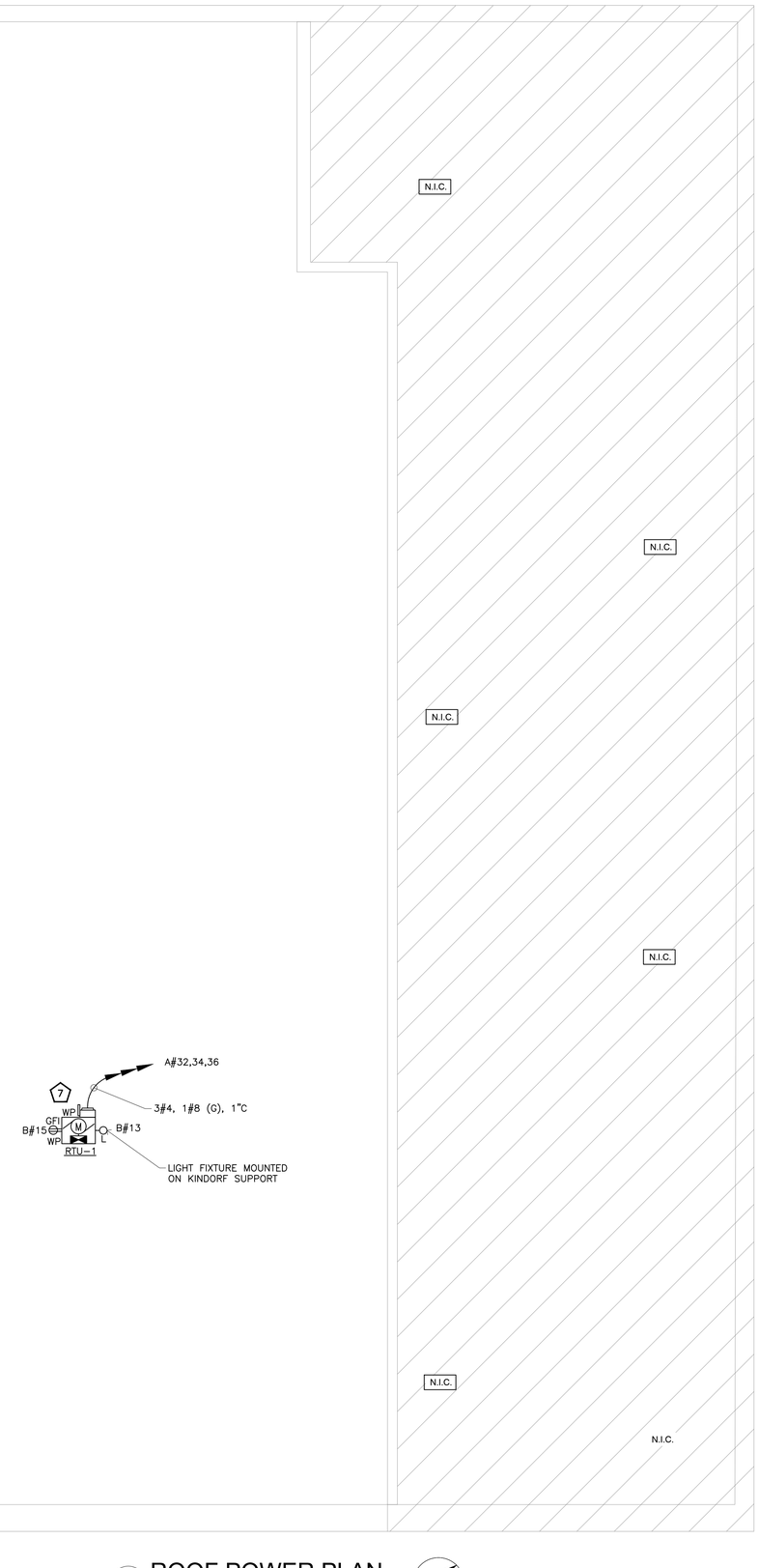



## 1 LIGHTING PLAN

SCALE: 1/4" = 1'-0"




1 POWER PLAN
SCALE: 1/4" = 1'-0"




2 ROOF POWER PLAN
SCALE: 1/4" = 1'-0"

ELECTRICAL POWER PLAN KEYED WORK NOTES:

1. JUNCTION BOX WITH A SWITCH FOR EXTERIOR SIGNAGE. COORDINATE EXACT LOCATION AND QUANTITY WITH ARCHITECT/OWNER PRIOR ROUGH-IN.
2. PROVIDE JUNCTION BOX FOR ILLUMINATED FROG SIGNAGE AT RECEPTION. COORDINATE EXACT LOCATION AND CONTROL REQUIREMENTS WITH ARCHITECT/OWNER PRIOR TO ROUGH-IN.
3. PROPOSED TV LOCATION. TV POWER AND DATA OUTLET ARE MOUNTED AT 54" A.F.F. COORDINATE EXACT LOCATION AND MOUNTING REQUIREMENTS WITH ARCHITECT/OWNER PRIOR TO ROUGH-IN.
4. PROPOSED TV LOCATION. COORDINATE EXACT LOCATION AND MOUNTING REQUIREMENTS OF POWER AND DATA OUTLET WITH ARCHITECT/OWNER PRIOR TO ROUGH-IN.
5. FLOOR MOUNTED JUNCTION BOX FOR CHECK IN I-PAD STATION. COORDINATE LOCATION AND EXACT POWER REQUIREMENTS WITH ARCHITECT/OWNER PRIOR TO ROUGH-IN.
6. JUNCTION BOX FOR USB RECHARGEABLE OUTLETS IN THE LOCKERS. COORDINATE LOCATION AND EXACT POWER REQUIREMENTS WITH MANUFACTURER PRIOR TO ROUGH-IN.
7. ROOFTOP UNIT RTU-1 (61 MCA-240V-3 PH): PROVIDE A 90A-3P UNFUSED DISCONNECT SWITCH MOUNTED ON/AT UNIT AS REQUIRED. COORDINATE FINAL LOCATION IN FIELD. WIRING SHALL BE 3#4, 1#8 (G), 1"C. TO THE 80A-3P CIRCUIT BREAKER INDICATED ON DRAWING. COORDINATE WITH MECHANICAL DRAWINGS FOR EXACT LOCATION OF ROOFTOP UNITS.
8. WATER HEATER (15KW, 240V-3 PH): PROVIDE A 60A-3P UNFUSED DISCONNECT SWITCH MOUNTED ON/AT UNIT AS REQUIRED. COORDINATE FINAL LOCATION IN FIELD. WIRING SHALL BE 3#8, 1#10 (G), 3/4"C. TO THE 50A-3P CIRCUIT BREAKER INDICATED ON DRAWING. COORDINATE WITH PLUMBING DRAWINGS FOR EXACT LOCATION OF WATER HEATER.

PANELBOARDS:

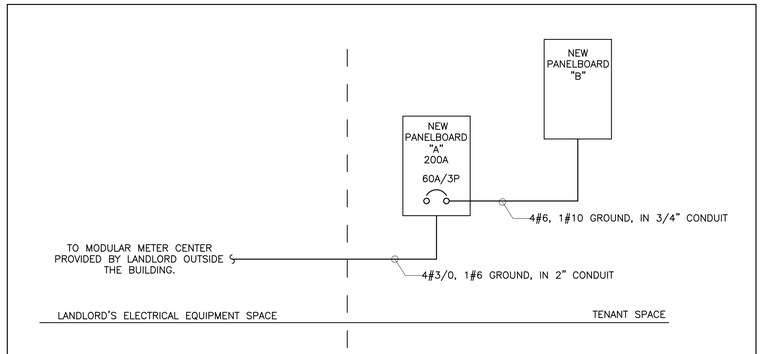
| PANEL: | A | | | | | | | | | | | MOUNTING: | SURFACE | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **120/240** | VOLTS, | | **3** | PHASE, | | **4** | WIRE | | | | | | | | |
| MAIN CB | **200A** | | | BUS | **225A** | MIN, | INTERRUPTING RATING | | | | **22 KAIC** | | | | |

| CKT NO. | TRIP AMPS | DESCRIPTION OF LOAD | LOAD TYPE | LOAD (KVA) | PER PHASE (KVA) A | PER PHASE (KVA) B | PER PHASE (KVA) C | LOAD (KVA) | LOAD TYPE | DESCRIPTION OF LOAD | TRIP AMPS | CKT NO. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 20 | LIGHTING RECEPTION, RETAIL | L | 0.65 | 1.37 | | | 0.72 | R | RECEPTACLE GENERAL | 20 | 2 |
| 3 | 20 | LIGHTING RECEPTION TRACK | L | 0.60 | | 0.96 | | 0.36 | E | TRAINING ROOM TV's | 20 | 4 |
| 5 | 20 | LIGHTING TRAINING | L | 0.60 | | | 0.96 | 0.36 | E | TRAINING ROOM TV's | 20 | 6 |
| 7 | 20 | LIGHTING TRAINING | L | 0.60 | 1.68 | | | 1.08 | R | USB RECHARFEABLE OUTLETS | 20 | 8 |
| 9 | 20 | CEILING FAN | L | 0.60 | | 1.68 | | 1.08 | R | USB RECHARFEABLE OUTLETS | 20 | 10 |
| 11 | 20 | RECEPTION DESK SIGN | L | 0.50 | | | 1.58 | 1.08 | R | USB RECHARFEABLE OUTLETS | 20 | 12 |
| 13 | 20 | LIGHTING OFFICE, RESTROOM | L | 0.50 | 1.58 | | | 1.08 | R | USB RECHARFEABLE OUTLETS | 20 | 14 |
| 15 | 20 | EXTERIOR SIGNAGE | L | 0.50 | | 0.7 | | 0.20 | L | EM/EXIT LIGHTS | 20 | 16 |
| 17 | 20 | SHOW WINDOW RECEPTACLE | R | 0.36 | | | 0.54 | 0.18 | R | TV RECEPTACLE | 20 | 18 |
| 19 | 20 | POS RECEPTACLE | E | 0.36 | 0.46 | | | 0.10 | E | CEILING MOUNTED SPEAKERS | 20 | 20 |
| 21 | 20 | POS RECEPTACLE | E | 0.36 | | 0.46 | | 0.10 | E | CEILING MOUNTED SPEAKERS | 20 | 22 |
| 23 | 20 | CHECK IN I-PAD STATION | E | 0.10 | | | 0.2 | 0.10 | E | CEILING MOUNTED SPEAKERS | 20 | 24 |
| 25 | 20 | RECEPTACLE RESTROOM | R | 0.72 | 5.72 | | | 5.00 | H | WATER HEATER | 50/3P | 26 |
| 27 | 20 | ELECTRIC WATER COOLER | E | 1.00 | | 6 | | 5.00 | H | | | 28 |
| 29 | 20 | RECEPTACLE GENERAL | R | 0.54 | | | 5.54 | 5.00 | H | | | 30 |
| 31 | 20 | HWCP-1 | E | 0.03 | 6.79 | | | 6.76 | H | RTU-1 | 80Y/3P | 32 |
| 33 | 60/3P | TO PANEL B | E | 0.81 | | 7.57 | | 6.76 | H | | | 34 |
| 35 | | | E | 0.81 | | | 7.57 | 6.76 | H | | | 36 |
| 37 | | | E | 0.81 | 1.81 | | | 1.00 | E | TRAINING ROOM PROJECTOR's | 20 | 38 |
| 39 | 20 | UTILITY GFI RECEPTALE | R | 0.36 | | 0.36 | | | | SPARE | 20 | 40 |
| 41 | 20 | UTILITY QUARD RECEPTALE | R | 0.36 | | | 0.36 | | | SPARE | 20 | 42 |
| | | TOTAL LOAD (KVA) | | | 19.41 | 17.73 | 16.75 | | | | | |

| PANEL: | B | | | | | | | | | | | MOUNTING: | SURFACE | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **120/240** | VOLTS, | | **3** | PHASE, | | **4** | WIRE | | | | | | | | |
| MAIN CB | | | | BUS | **100A** | MIN, | INTERRUPTING RATING | | | | **22 KAIC** | | | | |

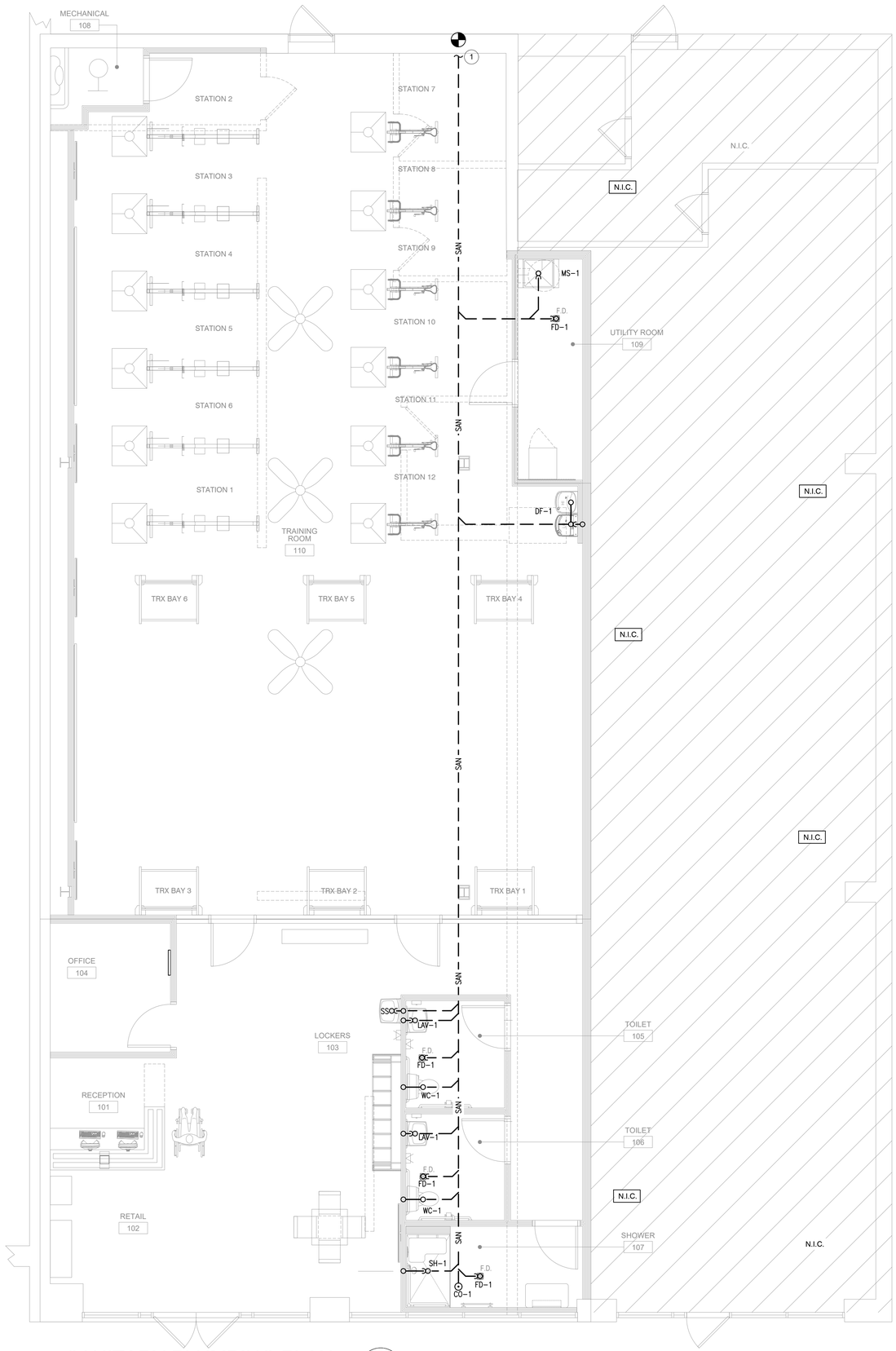
| CKT NO. | TRIP AMPS | DESCRIPTION OF LOAD | LOAD TYPE | LOAD (KVA) | PER PHASE (KVA) A | PER PHASE (KVA) B | PER PHASE (KVA) C | LOAD (KVA) | LOAD TYPE | DESCRIPTION OF LOAD | TRIP AMPS | CKT NO. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 20 | OFFICE RECEPTACLE | R | 0.36 | 0.36 | | | | | SPARE | 20 | 2 |
| 3 | 20 | OFFICE RECEPTACLE | R | 0.36 | | 0.36 | | | | SPARE | 20 | 4 |
| 5 | 20 | OFFICE RECEPTACLE | R | 0.36 | | | 0.36 | | | SPARE | 20 | 6 |
| 7 | 20 | OFFICE RECEPTACLE | R | 0.36 | 0.36 | | | | | SPARE | 20 | 8 |
| 9 | 20 | OFFICE RECEPTACLE | R | 0.36 | | 0.36 | | | | SPARE | 20 | 10 |
| 11 | 20 | OFFICE RECEPTACLE | R | 0.36 | | | 0.36 | | | SPARE | 20 | 12 |
| 13 | 20 | ROOF LIGHTING | L | 0.10 | 0.1 | | | | | SPARE | 20 | 14 |
| 15 | 20 | ROOF RECEPTACLE | R | 0.18 | | 0.18 | | | | SPARE | 20 | 16 |
| 17 | 20 | SPARE | | | | | 0 | | | SPARE | 20 | 18 |
| 19 | 20 | SPARE | | | 0 | | | | | SPARE | 20 | 20 |
| 21 | 20 | SPARE | | | | 0 | | | | SPARE | 20 | 22 |
| 23 | 20 | SPARE | | | | | 0 | | | SPARE | 20 | 24 |
| 25 | 20 | SPARE | | | 0 | | | | | SPARE | 20 | 26 |
| 27 | 20 | SPARE | | | | 0 | | | | SPARE | 20 | 28 |
| 29 | 20 | SPARE | | | | | 0 | | | SPARE | 20 | 30 |
| | | TOTAL LOAD (KVA) | | | 0.82 | 0.9 | 0.72 | | | | | |

ELECTRICAL RISER DIAGRAM




NOTE:

1. E.C. SHALL VERIFY FAULT CURRENT AVAILABLE WITH UTILITY COMPANY AND CALCULATE EXACT A.I.C. RATING REQUIRED.
2. E.C. SHALL VERIFY INCOMING SERVICE AMPERAGE, WIRE SIZING AND DISTRIBUTION.

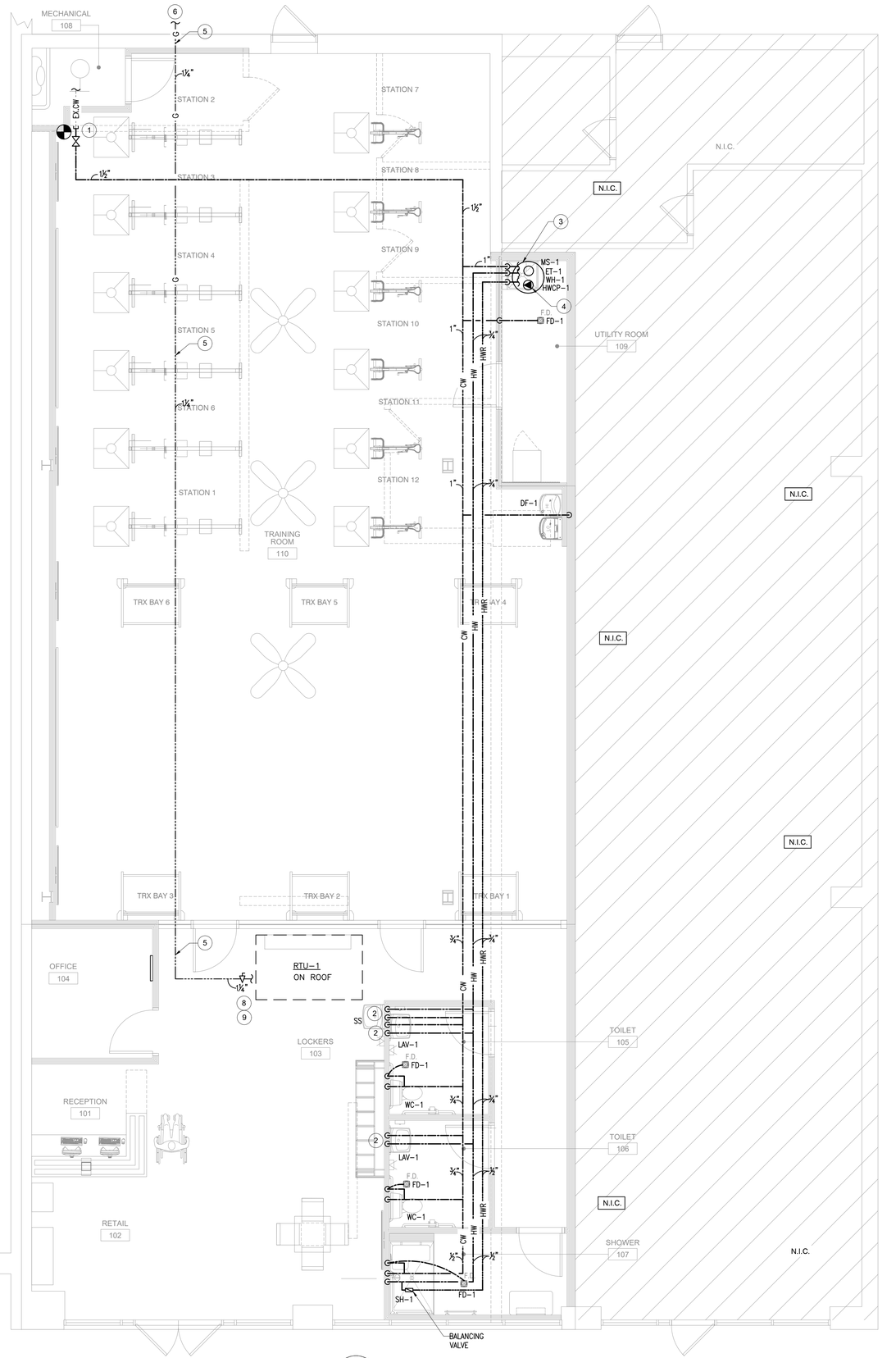



## 1 SANITARY PLUMBING PLAN

SCALE: 1/4" = 1'-0"

SANITARY PLUMBING PLANS CODED NOTES:

1. CONNECT NEW SANITARY PIPING TO EXISTING MAIN IN THIS AREA. PLUMBING CONTRACTOR SHALL VERIFY EXACT LOCATION, SIZE AND INVERT OF EXISTING SANITARY MAIN. SAWCUT AND TRENCH FLOOR AS REQUIRED AND PATCH FLOOR TO MATCH EXISTING.
2. 3" FLOOR DRAIN. PROVIDE WATERLESS SURESEAL TRAP SEALER FOR FLOOR DRAIN. COORDINATE EXACT LOCATION WITH ARCHITECT/OWNER.
3. CONTRACTOR TO FILED VERIFY AND CONNECT NEW 2" VENT TO EXISTING VENT IN EXISTING TOILET AREA.




## 2 WATER PIPING PLAN

SCALE: 1/4" = 1'-0"

WATER AND GAS PIPING PLANS CODED NOTES:

1. CONNECT TO EXISTING CW STUB IN SPACE. CONTRACTOR TO FIELD VERIFY EXACT LOCATION IN FIELD. PROVIDE WITH NEW WATER METER & BACKFLOW PREVENTOR PER REQUIREMENTS OF LOCAL JURISDICTION. COORDINATE ALL WORK WITH G.C. AND UTILITY COMPANY.
2. PROVIDE A TEMPERING VALVE FOR LAVATORIES. POWER HYDROGUARD SERIES LM495, ASSE 1070 OR EQUAL. SET TEMPERATURE TO A MAXIMUM OF 110°F.
3. INSTALL NEW ELECTRIC WATER HEATER ABOVE SERVICE SINK. CONNECT 1" HW AND 1" CW PIPING. PROVIDE DRAIN PAN AND ROUTE DRAIN TO SERVICE SINK WITH AIR GAP. SEE WATER HEATER DETAIL ON SHEET P0.00 FOR ADDITIONAL INFORMATION.
4. PROVIDE HOT WATER RECIRCULATION PUMP AND STRAP ON AQUASTAT. INSTALL AQUASTAT ON FIXTURE FARTHEST AWAY FROM HOT WATER HEATER. EXTEND RECIRCULATION PIPING TO EXTERIOR TANKLESS WATER HEATER PER MANUFACTURER'S INSTRUCTION.
5. ALL NEW GAS PIPING IS RUNNING ON ROOF, SHOWN ON PLAN FOR REFERENCE ONLY.
6. CONTINUE NEW GAS PIPE LINE TO GAS METER. CONTRACTOR TO FIELD VERIFY AND PROVIDE NEW GAS METER AS REQUIRED.
7. ALL BATHROOM FAUCETS TO BE PROVIDED WITH SENSOR.
8. EXTEND GAS LINE TO ROOFTOP UNITS. PROVIDE SHUTOFF VALVE, UNION AND DIRTLEG.
9. CONTRACTOR TO FIELD VERIFY EXISTING AVAILABLE GAS PRESSURE AND MAKE SURE TO PROVIDE ADEQUATE INLET PRESSURE REQUIRED FOR RTU-1.