

1 ELECTRICAL LIGHTING, POWER, AND LOW VOLTAGE PLAN
1/8" = 1'-0"

DATA CONDUITS SHALL NOT BE DAISY-CHAINED.

ENERGY CODE EXEMPTION:
EXISTING SALES, STOCK ROOM AND FITTING ROOM FIXTURES PRIOR TO ALTERATION = 291
TOTAL NUMBER OF FIXTURES ADDED OR REMOVED = 41
PERCENT OF ALTERED FIXTURES = 16%
TOTAL WATTAGE OF ADDED FIXTURES = 800 W
TOTAL WATTAGE OF REMOVED FIXTURES = 818 W
NET REDUCTION OF LOAD = 18 W

SINCE THE ALTERATION HAS ALTERED LESS THAN 50% OF THE FIXTURES AND THE INSTALLED LIGHTING LOAD DID NOT INCREASE, THIS PROJECT IS EXEMPT FROM THE ENERGY CODE PER 2015 IECC C503.1 EXCEPTION 7.

ELECTRICAL LIGHTING GENERAL NOTES:

1. REFER TO SHEET E0.0 FOR ELECTRICAL GENERAL NOTES.

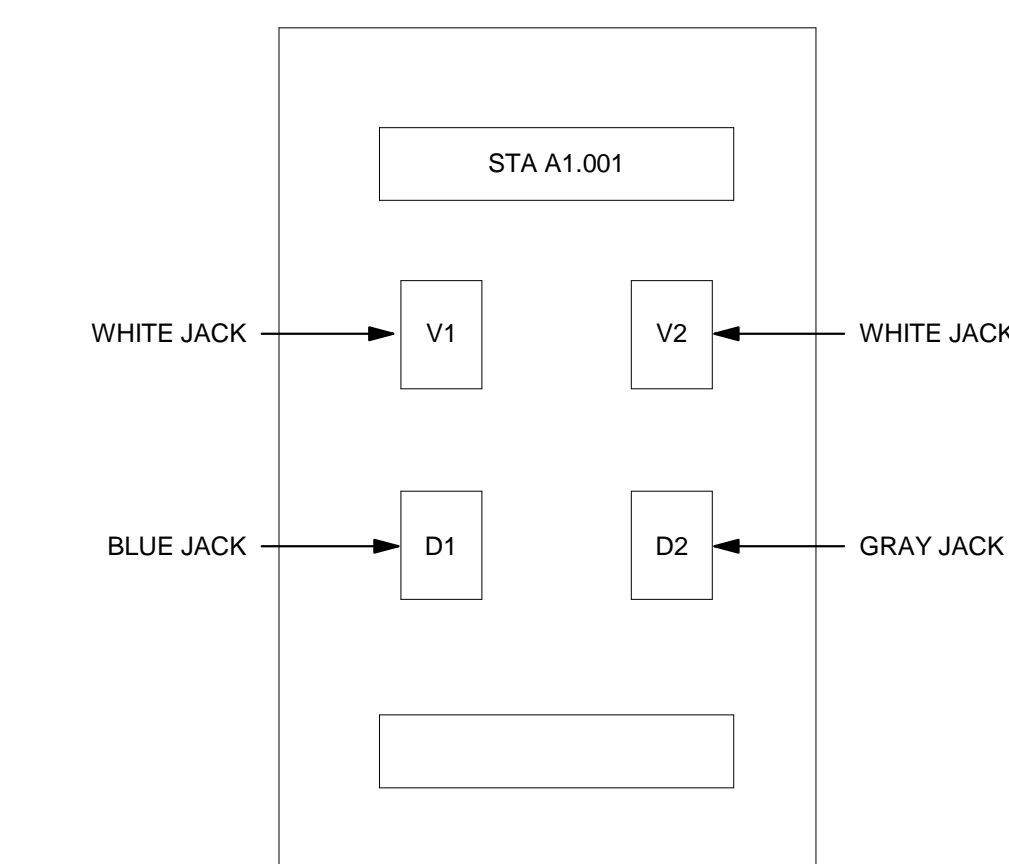
ELECTRICAL LIGHTING PLAN NOTES

1. CONNECT EXISTING FIXTURE TO BACK OF HOUSE LIGHTING CIRCUIT AFFECTED DURING DEMOLITION. FIELD VERIFY CIRCUIT ASSIGNMENT IN EXISTING PANELBOARDS. CONTRACTOR SHALL VERIFY THAT EXISTING CIRCUIT IS NOT LOADED OVER 16A.
2. CONNECT LIGHT FIXTURE TO EXISTING GENERAL CIRCUIT. MAINTAIN EXISTING LIGHTING CONTROL SCHEME. CONTRACTOR SHALL VERIFY THAT EXISTING CIRCUIT IS NOT LOADED OVER 16A.
3. PARTITIONS WITHIN THE FITTING AREA ARE NOT FULL HEIGHT PARTITIONS.
4. AUDIO SYSTEM SPEAKER, SALES AREA. PROVIDE JUNCTION BOX AND 3/4" CONDUIT LOOP WITH PULL WIRE BETWEEN SPEAKERS VIA NON-POWERED BUSSTRUT. ROUTE CONDUIT FROM BUSSTRUT TO AV ROOM. COORDINATE FINAL SPEAKER QUANTITIES, LOCATIONS, AND REQUIREMENTS WITH AUDIO SYSTEM VENDOR DRAWINGS PRIOR TO ROUGH-IN.
5. AUDIO SYSTEM SPEAKER, BACK OF HOUSE STOCKROOM. PROVIDE 3/4" CONDUIT LOOP WITH PULL WIRE BETWEEN SPEAKERS IN BACK OF HOUSE AREAS TO AV ROOM. COORDINATE FINAL SPEAKER QUANTITIES, LOCATIONS, AND REQUIREMENTS WITH AUDIO SYSTEM VENDOR DRAWINGS PRIOR TO ROUGH-IN.
6. AUDIO SYSTEM VOLUME CONTROL. ALIGN WITH LIGHT SWITCHES. LIGHT SWITCHES HAVE PRIORITY NEAR DOOR. PROVIDE SINGLE-GANG BOX WITH MUD RINGS FOR EACH CONTROLLER MOUNTED AT 48" AFF AND 3/4" CONDUIT WITH PULL WIRE STUBBED UP TO STRUCTURE OR 12" ABOVE ACCESSIBLE CEILING FOR VOLUME CONTROL DEVICE. ROUTE CONDUIT AND PULL WIRE TO AV ROOM. COORDINATE FINAL QUANTITY, LOCATION, REQUIREMENTS AND JUNCTION BOX SIZE WITH AUDIO SYSTEM VENDOR DRAWINGS PRIOR TO ROUGH-IN.
7. AUDIO SYSTEM VOLUME CONTROL. PROVIDE SINGLE-GANG BOX WITH MUD RINGS FOR EACH CONTROLLER MOUNTED AT 48" AFF AND 3/4" CONDUIT WITH PULL WIRE STUBBED UP TO STRUCTURE OR 12" ABOVE ACCESSIBLE CEILING FOR VOLUME CONTROL DEVICE. ROUTE CONDUIT AND PULL WIRE TO AV ROOM. COORDINATE FINAL QUANTITY, LOCATION, REQUIREMENTS AND JUNCTION BOX SIZE WITH AUDIO SYSTEM VENDOR DRAWINGS PRIOR TO ROUGH-IN.
8. PROVIDE JUNCTION BOX FOR AV DEVICE. COORDINATE ROUGH IN REQUIREMENTS WITH AV VENDOR AND FINAL LOCATION WITH ARCHITECT PRIOR TO ROUGH-IN.
9. AV HEAD-END EQUIPMENT CABINET BY OTHERS. CONFIRM LOCATION WITH AV VENDOR PRIOR TO ROUGH-IN. (3) 48 PORT PANELS MOUNTED WITHIN CABINET. PROVIDE 1" CONDUIT WITH PULL WIRE TO CABLE TV SERVICE ENTRANCE. MAKE CONNECTIONS AS DIRECTED BY NIKE PROJECT MANAGER.
10. SURVEILLANCE CAMERA, SALES AREA. PROVIDE 2-GANG BOX WITH ROUND MUD RING AND 3/4" CONDUIT ROUTED TO NEAREST SECURITY CONSOLIDATION PULLBOX. COORDINATE MOUNTING HEIGHT WITH SECURITY SYSTEM VENDOR PRIOR TO ROUGH-IN.
11. SURVEILLANCE CAMERA, STOCKROOM. PROVIDE 2-GANG BOX MOUNTED TO STRUCTURE AND 3/4" CONDUIT WITH PULL STRING ROUTED TO SALES AREA SECURITY CONSOLIDATION PULLBOX OR TO SECURITY SYSTEM HEAD-END EQUIPMENT INSIDE AV ROOM, WHICH EVER IS CLOSER.
12. SURVEILLANCE CAMERA, BACK OF HOUSE CEILING. PROVIDE 2-GANG BOX WITH ROUND MUD RING AND 3/4" CONDUIT WITH PULL STRING ROUTED TO SECURITY SYSTEM HEAD-END EQUIPMENT INSIDE AV ROOM.
13. EXTERIOR SURVEILLANCE CAMERA. PROVIDE WEATHERPROOF 2-GANG BOX WITH SINGLE GANG MUD RING MOUNTED AT 10" AFF AND 3/4" CONDUIT WITH PULL STRING ROUTED TO SECURITY SYSTEM HEAD-END EQUIPMENT INSIDE AV ROOM AND 3/4" CONDUIT WITH PULL-STRING FROM CAMERA TO SECURITY MONITOR MOUNTED 12" ABOVE DOOR FRAME INSIDE STOCKROOM. SEAL WALL PENETRATION PER SPECIFICATION. COORDINATE FINAL LOCATION, REQUIREMENTS, AND JUNCTION BOX SIZE WITH SECURITY SYSTEM VENDOR PRIOR TO ROUGH-IN.
14. CONNECT EXIT SIGN TO UN-SWITCHED HOT FROM LIGHTING CIRCUIT SERVING LIGHT FIXTURES IN THIS AREA. FIELD VERIFY CIRCUIT IN EXISTING PANELBOARD IS NOT LOADED OVER 16A.
15. CONNECT TO EXISTING GENERAL CIRCUIT AFFECTED DURING DEMOLITION. FIELD VERIFY CIRCUIT ASSIGNMENT IN EXISTING PANELBOARDS. CONTRACTOR SHALL VERIFY THAT EXISTING CIRCUIT IS NOT LOADED OVER 16A.
16. DESK PLUG/MOLD, WIREMOLD WH2026966TRUSB OR APPROVED EQUAL PROVIDED BY OTHERS. PROVIDE PERMANENT LABEL STATING 'SWITCHED' SHOWING RECEPTACLES ARE CONTROLLED BY THE EMS SYSTEM. PROVIDE JUNCTION BOX AND PLUG/MOLD AT 4" ABOVE COUNTER BACKSPASH. CUT STANDARD PLUG/MOLD LENGTHS AS NEEDED TO FIT AREAS INDICATED.
17. DATA OUTLET, LOCATED WITHIN 10" OF QUAD RECEPTACLE. PROVIDE SQUARE 4-11/16" X 4-11/16" X 2-1/2" JUNCTION BOX WITH SINGLE GANG MUD RING MOUNTED AT 15" AFF UNLESS NOTED OTHERWISE. PROVIDE 1" CONDUIT FOR (2) DATA AND (2) VOICE CABLES ROUTED TO TELEPHONE BACKBOARD. REFER TO SHEET #4 ON SHEET #1 FOR VOICE/DATA OUTLET CONFIGURATION.
18. ALL DEVICES SHOWN, EXCEPT PLUG/MOLD, SHALL BE MOUNTED BELOW COUNTER UNLESS NOTED OTHERWISE.
19. PROVIDE 12"X12"X4" PULLBOX FOR AUDIO SYSTEM CABLEING. PROVIDE GROMMETTED OPENINGS AS NECESSARY TO TRANSITION INDIVIDUAL CABLES INTO PULLBOX. MOUNT PULLBOX AT 13'-6" UNLESS NOTED OTHERWISE. COORDINATE FINAL LOCATION WITH AUDIO SYSTEM VENDOR, LIGHTING AND DUCTWORK PRIOR TO ROUGH-IN.
20. ROUTE (1) 2" CONDUIT FOR AUDIO SYSTEM CABLEING WITH BUSHINGS OVERHEAD FROM PULLBOX TO AUDIO SYSTEM HEAD END EQUIPMENT INSIDE AV ROOM. PROVIDE PULLBOX FOR EVERY 100' OF LENGTH OR 180 DEGREES OF CONDUIT BENDS. COORDINATE CONDUIT ROUTING WITH AUDIO SYSTEM VENDOR, LIGHTING AND DUCTWORK PRIOR TO ROUGH-IN.
21. SECURITY DEVICE, BACK OF HOUSE STOCKROOM. PROVIDE 2-GANG BOX WITH SINGLE GANG MUD RING AND CONSOLIDATE ALL DEVICES TO (1) 1" CONDUIT WITH PULL STRING ROUTED TO SECURITY SYSTEM HEAD-END EQUIPMENT INSIDE AV ROOM.
22. SECURITY MONITOR. PROVIDE 2-GANG BOX WITH SINGLE GANG MUD RING AND 3/4" CONDUIT WITH PULL-STRING ROUTED TO SECURITY SYSTEM HEAD-END EQUIPMENT INSIDE AV ROOM.
23. SECURITY DEVICE, SALES AREA. PROVIDE 2-GANG BOX WITH SINGLE GANG MUD RING AND 3/4" CONDUIT WITH PULL STRING ROUTED TO NEAREST SECURITY CONSOLIDATION PULLBOX.
24. EXISTING PANELBOARDS TO REMAIN. FIELD VERIFY EXACT LOCATION.
25. CONNECT TO AVAILABLE SPARE CIRCUIT IN 120/208V PANEL. FIELD VERIFY AVAILABILITY OF EXISTING SPARE IN PANEL. PROVIDE UPDATED PRINTED PANELBOARD SCHEDULE WHEN ALL WORK IS COMPLETE.
26. PROVIDE 12"X12"X4" PULLBOX FOR SECURITY/SURVEILLANCE CABLEING. PROVIDE GROMMETTED OPENINGS AS NECESSARY TO TRANSITION INDIVIDUAL CABLES INTO PULLBOX. MOUNT PULLBOX AT STRUCTURE UNLESS NOTED OTHERWISE. COORDINATE FINAL LOCATION WITH SECURITY VENDOR, LIGHTING AND DUCTWORK PRIOR TO ROUGH-IN.
27. ROUTE (1) 2-1/2" CONDUIT FOR SECURITY/SURVEILLANCE CABLEING WITH BUSHINGS OVERHEAD FROM PULLBOX TO SECURITY SYSTEM HEAD-END EQUIPMENT INSIDE AV ROOM. PROVIDE PULLBOX FOR EVERY 100' OF LENGTH OR 180 DEGREES OF CONDUIT BENDS. COORDINATE CONDUIT ROUTING WITH SECURITY VENDOR, LIGHTING AND DUCTWORK PRIOR TO ROUGH-IN.
28. SECURITY CAMERA TO BE DEMOED AND/OR RELOCATED AS DIRECTED BY SECURITY VENDOR.
29. POWER CONNECTION FOR SECURITY MONITOR. MOUNT RECEPTACLE 12" ABOVE DOOR FRAME AS INDICATED. COORDINATE FINAL LOCATION AND REQUIREMENTS WITH SECURITY SYSTEM VENDOR DRAWINGS PRIOR TO ROUGH-IN.

DATA CONDUIT FILL TABLE								
TRADE SIZE	INTERNAL DIAMETER	TOTAL AREA	1 CABLE	2 CABLE	OVER 2 CABLES	REDUCTION FOR 90 DEGREE BENDS	NUMBER OF 4 PAIR CABLES ALLOWED	NUMBER OF NIKE STANDARD 4 CABLE STATIONS
(IN.)	(IN.)	(SQ. IN.)	53% FILL	31% FILL	40% FILL	(2 MAX)	(KRONE SET 0.175" AVG)	
1/2	0.622	0.304	0.161	0.094	0.122	0.088	0	0
3/4	0.824	0.533	0.282	0.165	0.213	0.154	6	1
1	1.049	0.864	0.458	0.268	0.346	0.25	10	2
1-1/4	1.38	1.496	0.793	0.464	0.598	0.432	18	4
1-1/2	1.61	2.036	1.079	0.631	0.814	0.588	24	6
2	2.067	3.356	1.779	1.04	1.342	0.97	40	10
2-1/2	2.731	5.658	3.105	1.816	2.343	1.693	70	17
3	3.356	8.846	4.688	2.742	3.538	0	147	36
4	4.334	14.753	7.819	4.573	5.901	0	245	61

LIGHT FIXTURE SCHEDULE								
TYPE	MANUFACTURER/MODEL #	NO.	LAMPS		INPUT WATTS	INPUT VA	DESCRIPTION	NOTES
			TYPE	VOLT				
D	EXISTING SALES FLOOR DISPLAY TRACK HEAD	-	LED	UNV	25	33		
HB1	LUMEN MAX HALOCHIS-GF3-32W-EX	3	32W TRIPLE TUBE	UNV	105	114	SINGLE-DOME PENDANT FIXTURE WITH BALLASTS LOCATED IN CANOPY. 16" ACRYLIC REFLECTOR. FINISH TO MATCH EXISTING. GUARD AND LENS TO MATCH EXISTING LIGHTING CORDS AND PLUGS SUPPLIED AND INSTALLED BY ELECTRICAL CONTRACTOR.	
K8	MERCURY #MM-232-OCT-C-ELB-UNI	2	F32T8	UNV	44	50	STOCKROOM 6'-0" STRIP FIXTURE WITH WIRE GUARD #WGM140.	
R	INTENSE RRP-1100-308-1100 + IC630CSFW	-	LED	UNV	120	19	RECESSED 6" LED DOWNLIGHT WITH REMOTE PHOSPHOR TECHNOLOGY. CLEAR OPEN REFLECTOR, SELF FLANGED WHITE TRIM. 1100 DELIVERED LUMENS MINIMUM. 3000K, 80+ CRI, 50,000 HOURS WITH INTEGRAL	

GENERAL NOTES:
A. ALL FIXTURES PURCHASED AND FURNISHED BY OWNER. COORDINATE WITH OWNER CONSTRUCTION PROJECT MANAGER FOR ALL LIGHTING ISSUES.
B. CONFIRM MOUNTING, FINISH, ACCESSORIES, LAMP COLOR TEMPERATURE AND BEAM SPREAD, ETC. WITH ARCHITECT FOR ALL LIGHT FIXTURES PRIOR TO ORDERING.
C. VERIFY CEILING CONDITIONS AND COORDINATE LIGHT FIXTURE MOUNTING HARDWARE AND TRIMS NEEDED TO SUIT CEILING CONDITIONS PRIOR TO ORDERING.
D. REFER TO ARCHITECTURAL DRAWINGS AND DETAILS FOR FINAL LOCATIONS, MOUNTING HEIGHTS AND ADDITIONAL MOUNTING INFORMATION. CONTACT ARCHITECT IMMEDIATELY IF THERE ARE DISCREPANCIES BETWEEN THE ARCHITECTURAL AND ELECTRICAL LIGHTING PLANS.
E. REFER TO DIVISION 26 SPECIFICATIONS FOR ACCEPTABLE LAMP AND BALLAST MANUFACTURERS AND ADDITIONAL INFORMATION.
F. PROVIDE A MINIMUM OF 12 LAMPS OF EACH TYPE DESIGNATED AS SPARE FOR OWNER USE. LAMPS THAT BURN OUT DURING CONSTRUCTION PRIOR TO OPENING ARE THE RESPONSIBILITY OF THE CONTRACTOR TO REPLACE AND SHALL NOT COME OUT OF THE DESIGNATED SPARE LAMPS FOR OWNER USE.



- GENERAL NOTES:**
1. THIS CONFIGURATION REQUIRES TWO DATA AND TWO VOICE CABLE HOMERUNS ROUTED TO THE TELEPHONE BACKBOARD. COORDINATE REQUIREMENTS WITH NIKE IT.
 2. 4-11/16" SQUARE BOX WITH SINGLE GANG MUD RING FOR SINGLE GANG FACEPLATE.
 3. CABLE NUMBERING SEQUENCE TO START WITH CASHWRAPS. CONFIRM FINAL NUMBERING SEQUENCE WITH NIKE IT PRIOR TO INSTALLATION.

2 VOICE/DATA OUTLET CONFIGURATION NOTES

THIS DRAWING IS PROVIDED FOR REFERENCE ONLY TO IDENTIFY EXISTING EQUIPMENT AND SHOW GENERAL EXISTING CONDITIONS. FIELD VERIFY EXACT UNIT LOCATIONS PRIOR TO INSTALLATION.

UNIT REPLACEMENT SCOPE:
FOUR TRANE ROOFTOP UNITS INSTALLED IN 2006 AND ONE TRANE ROOFTOP UNIT INSTALLED IN 2009. REPLACE LIKE FOR LIKE AND UPDATE OA CFM PER SCHEDULE.

CONTRACTOR TO PERFORM TEST AND BALANCE REPORT PRIOR TO INSTALLATION AND ENSURE NEW EQUIPMENT MATCHES EXISTING SUPPLY CFMS.

RECONNECT EXISTING NATURAL GAS PIPING TO NEW ROOFTOP UNIT.

ROOF CURBS ARE EXISTING TO REMAIN, COORDINATE NEW CURB ADAPTERS AS NECESSARY.

FOR ALL UNITS, REPLACE DISCONNECT SWITCH WITH NEW 100A/3P DISCONNECT SWITCH WITH 70A FUSES. REPLACE CIRCUIT BREAKER IN 208V PANEL WITH NEW 70A/3POLE BREAKER. INSTALL NEW COPPER WIRING SIZED AT (3) #4AWG AND (1) #8AWG GROUND IN MINIMUM 1" CONDUIT. RETAIN EXISTING CONTROL WIRING FROM OLD UNIT AND RECONNECT AND EXTEND AS NECESSARY TO NEW UNIT.

RETAIN EXISTING MAINTENANCE RECEPTACLE CIRCUIT AND RECONNECT AND EXTEND AS NECESSARY TO NEW UNIT MAINTENANCE RECEPTACLE.

Architect:

Engineer:

Project Owner:

NIKE, Inc.
 One Bowerman Drive
 Beaverton, OR 97005
 (503) 671-6453
 www.nike.com

Project Address:
NIKE FACTORY STORE
 210 GASSER RD., SUITE 790
 BARABOO, WI 53913

Fixture Package:
 CLASSIC 2.0 REMODEL

Stamp:

NIKE FY25 HVAC REPLACEMENT.

WISCONSIN DELLS BARABOO, WI

HENDERSON ENGINEERS

ISSUE DATE:
10/01/2024

FOR REFERENCE ONLY

Sheet Title:
ELECTRICAL LIGHTING, POWER, AND LOW VOLTAGE PLAN

Sheet Number:
E1.0

TEMPLATE ISSUE DATE: 04/28/2017

EXISTING ROOFTOP UNIT SCHEDULE (GAS HEAT)

MARK	MANUFACTURER	MODEL	GAS INPUT (MBH)	VPH	WEIGHT (LBS)	NOTES
RTU-1	TRANE	YSK102A	200	208/3	1055	A
RTU-2	TRANE	YSK102A	200	208/3	1055	A
RTU-3	TRANE	YSK102A	200	208/3	1055	A
RTU-4	TRANE	YSK102A	200	208/3	1055	A
RTU-5	TRANE	YSK102A	200	208/3	1055	A

NOTES:
 A. SCHEDULE IS PROVIDED FOR REFERENCE ONLY. INFORMATION SHOWN IS BASED ON AS-BUILT DRAWINGS AND/OR SITE OBSERVATIONS. CONTRACTORS SHALL BE RESPONSIBLE TO FIELD VERIFY INFORMATION SHOWN AS IT RELATES TO PROVIDING NEW CURBS OR ADAPTER CURBS, STRUCTURAL REINFORCEMENT, ELECTRICAL SYSTEM MODIFICATIONS, OR OTHER SYSTEMS THAT MAY REQUIRE MODIFICATION DUE TO REPLACEMENT OF THE EXISTING EQUIPMENT.

ROOFTOP UNIT SCHEDULE (DX COOLING, NATURAL GAS HEAT)

MARK	MANUFACTURER	MODEL	NOMINAL TONS	SUPPLY FAN										COOLING COIL										HEAT EXCHANGER										MIN O&A	ABS O&A	ELECTRICAL	WEIGHT (LBS)	NOTES
				CFM	ESP (IN)	BHP (Y)	VFD (Y)	TH (MEH)	SH (Y)	EAT (°F DB)	(°F WB)	(°F DB)	(°F WB)	REFR TYPE	MIN EFF (EER)	MIN NO STAGES	MIN OUT (MSH)	NOM INPUT (MEH)	MIN EFF (%)	EAT (°F DB)	LAT (°F DB)	MIN NO STAGES	MIN O&A CFM	ABS O&A	VPH	MCA	MOCP											
RTU-1	TRANE	YSK102A	8.5	3,000	1.0	1.9	Y	106.2	65.9	75.7	66.2	56	54.7	R-454B	11	14.6	2	140.3	200	81	51.7	95	2	645	335	208/3	58	70	1407	A-Z								
RTU-2	TRANE	YSK102A	8.5	3,000	1.0	1.9	Y	106.2	65.9	75.7	66.2	56	54.7	R-454B	11	14.6	2	140.3	200	81	51.7	95	2	645	335	208/3	58	70	1407	A-Z								
RTU-3	TRANE	YSK102A	8.5	3,000	1.0	1.9	Y	106.2	65.9	75.7	66.2	56	54.7	R-454B	11	14.6	2	140.3	200	81	51.7	95	2	645	335	208/3	58	70	1407	A-Z								
RTU-4	TRANE	YSK102A	8.5	3,000	1.0	1.9	Y	106.2	65.9	75.7	66.2	56	54.7	R-454B	11	14.6	2	140.3	200	81	51.7	95	2	645	335	208/3	58	70	1407	A-Z								
RTU-5	TRANE	YSK102A	8.5	3,000	1.0	1.9	Y	98.4	71.2	73.9	62.7	52.7	51.4	R-454B	11	14.6	2	114.1	200	81	59.8	95	2	328	295	208/3	58	70	1407	A-Z								

MODEL NUMBERS AND NOMINAL TONS LISTED SHALL NOT BE CONSIDERED COMPLETE AND MATERIAL SHALL NOT BE ORDERED BY MANUFACTURER, MODEL NUMBERS, OR NOMINAL TONS ONLY. REVIEW THE COMPLETE DESCRIPTION, NOTES AND SPECIFICATIONS TO DETERMINE THE EXACT MATERIAL AND A.

- NOTES:
- A. ROOFTOP UNIT REPLACEMENT IS "LIKE FOR LIKE" UNLESS NOTED OTHERWISE.
 - B. EQUIPMENT SIZED FOR 85°F AMBIENT TEMPERATURE.
 - C. PROVIDE 2 INCH MERV 13 EFFICIENT PLEATED THROWAWAY AIR FILTERS.
 - D. STARTERS FOR ALL MOTORS SHALL BE FURNISHED INTEGRAL WITH UNIT.
 - E. PROVIDE FACTORY MOUNTED VARIABLE FREQUENCY DRIVE OR 2-SPEED MOTOR TO FACILITATE STAGED FAN SPEED CONTROL.
 - F. PROVIDE SINGLE POINT POWER CONNECTION.
 - G. PROVIDE DIFFERENTIAL TEMPERATURE ECONOMIZER.
 - H. COORDINATE SIZE OF CONDUCTOR TERMINATION LUGS WITH CONDUCTOR SIZES SHOWN ON ELECTRICAL DRAWINGS.
 - I. PROVIDE 125 VAC, 20 AMP DUPLEX CONVENIENCE RECEPTACLE MOUNTED TO UNIT READY FOR FIELD WIRING WITH A COVER UL LISTED FOR WET AND DAMPER LOCATIONS WHEN IN USE.
 - J. SPECIFIED FAN ESP ACCOUNTS FOR DUCT LOSSES EXTERNAL TO UNIT.
 - K. PROVIDE MOTOR HORSEPOWER TO OVERCOME INTERNAL UNIT STATIC PRESSURE DROP PLUS SPECIFIED EXTERNAL STATIC PRESSURE DROP. NOMINAL MOTOR HP SHALL BE NO LARGER THAN THE FIRST AVAILABLE NOMINAL MOTOR SIZE GREATER THAN THE REQUIRED BHP.
 - L. ROOF CURB IS SIZING TO RISEMAN.
 - M. SCHEDULED WEIGHT IS THE MAXIMUM ALLOWABLE OPERATING WEIGHT OF THE EQUIPMENT AND EXISTING CURB.
 - N. COOLING COIL LAT IS LEAVING AIR TEMPERATURE OF COIL.
 - O. PROVIDE GUARDS TO PROTECT CONDENSER COIL FROM HAIL OR OTHER DAMAGE.
 - P. PROVIDE HEATER TO MEET OR EXCEED SCHEDULED MINIMUM MEH OUTPUT. NOMINAL INPUT IS BASED ON LISTED MANUFACTURER'S STANDARD PRODUCT. COORDINATE EQUIPMENT GAS LOAD WITH PLUMBING CONTRACTOR IF DIFFERENT FROM THAT SCHEDULED.
 - Q. ABS, MIN. O&A IS THE ABSOLUTE MINIMUM OUTSIDE AIR CFM USING VENTILATION RESET OR DEMAND CONTROL VENTILATION.
 - R. PROVIDE UNIT WITH FACTORY INSTALLED TRANE BACNET OPENBOARD WITH SUPPLY AND OUTSIDE AIR TEMPERATURE SENSORS. COORDINATE ALL CONTROLS WITH EMS VENDOR PRIOR TO PURCHASE.
 - S. PROVIDE WITH STAINLESS STEEL HEAT EXCHANGER FOR UNIT WITH ENTERING AIR DRY BULB BELOW 50°F.

OUTSIDE AIR REQUIREMENTS, IMC-2015 (IP)

SYSTEM DESIGNATION	SYSTEM TAB NAME OR LIST SINGLE	SINGLE-ZONE SYSTEMS ONLY		MULTI-ZONE SYSTEMS ONLY		FLOOR AREA SERVED BY SYSTEM (AS) (SF)	SYSTEM AVERAGED AREA-BASED OUTDOOR AIR RATE (CFM/SF)	SYSTEM POPULATION (PEOPLE)	SYSTEM AVERAGED PEOPLE-BASED OUTDOOR AIR RATE (CFM/PEOPLE)	REQUIRED O&A INTAKE FLOW (MG)	REQUIRED DCV O&A INTAKE FLOW (MG)	DESIGN O&A INTAKE FLOW (MG)	NOTES
		SINGLE-ZONE SYSTEM ASSOCIATED VENTILATION ZONE SALES	SINGLE-ZONE WORST CASE ZONE AIR DISTRIBUTION EFFECTIVENESS (Ea)	SYSTEM VENTILATION EFFICIENCY (E)									
RTU-1-4	SINGLE ZONE		0.80			8,840	0.120	132.6	7.60	2,569	1,326	2,580	
RTU-5	MULTIZONE (RTU-5)			0.99		2,936	0.097	2.42	5.00	306	293	325	
TOTALS										2,875	1,619	2,905	

- GENERAL NOTES:
- 1. VENTILATION CALCULATIONS BASED ON IMC-2015.
 - 2. SYSTEM POPULATIONS BASED ON MAX SEATING AND/OR CODE MAXIMUM VALUES.
 - 3. SINGLE ZONE SYSTEMS (N1 + N2) SYSTEM VENTILATION EFFICIENCY CALCULATION IS NOT REQUIRED FOR SINGLE ZONE SYSTEMS. WORST CASE AIR DISTRIBUTION EFFECTIVENESS BETWEEN HEATING AND COOLING MODES OF OPERATION IS SHOWN IN TABLE.
 - 4. 100% O&A SYSTEMS (N1 + Σ (N2 * V2)) WHEN ONE AIR HANDLER SUPPLIES ONLY OUTDOOR AIR TO ONE OR MORE ZONES. EACH ZONE IS INDIVIDUALLY CALCULATED WITH ITS WORST CASE ZONE AIR DISTRIBUTION EFFECTIVENESS (HEATING/COOLING).
 - 5. MULTI-ZONE RECIRCULATING SYSTEMS: CALCULATOR USED TO DETERMINE VENTILATION AIR FLOW IN COMPLIANCE WITH IMC-2015 VPP AND ASHRAE 62.1-2013 APPENDIX A. VENTILATION RATE SHOWN IS ACTUAL CALCULATED WITH CORRECTION FACTORS INCLUDED. EACH ZONE IS CALCULATED WITH ITS WORST CASE ZONE AIR DISTRIBUTION EFFECTIVENESS (HEATING/COOLING) AS PART OF CALCULATIONS TO FIND EV.

**NIKE FY25 HVAC REPLACEMENT
 WISCONSIN DELLS**
 210 Gasser Rd. Suite 790
 Baraboo, WI 53913

FOR REFERENCE ONLY

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MECHANICAL
 SCHEDULES

DATE: 10/01/2024
 SCALE: NO SCALE

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