MECI	HANICAL LEGEND		
RTU	PACKAGED ROOFTOP UNIT		
EF	EXHAUST FAN		
ECH-1	ELECTRIC CABINET HEATER		
L-1	WALL LOUVER		
S.A.	SUPPLY AIR		
R.A.	RETURN AIR		
O.A.	OUTSIDE AIR		
E.A.	EXHAUST AIR		
C.A.	COMBUSTION AIR		
A.F.F.	ABOVE FINISHED FLOOR		
	RECTANGULAR SUPPLY AIR DUCT		
	RECTANGULAR RETURN AIR DUCT		
S	CIRCULAR SUPPLY AIR DUCT		
JEAN THE AND A DECIMAL AND A D	TURNING VANES		
	MANUAL BALANCING DAMPER		
===(M)	MOTORIZED DAMPER		
	FLEX CONNECTION		
AIR FLOW	DUCT TAKE OFF		
BD	BACK DRAFT DAMPER		
A	SMOKE DAMPER		
	FIRE DAMPER (VERTICAL)		
•	FIRE DAMPER (HORIZONTAL)		
-SD-	DUCT SMOKE DETECTOR		
SPC	STATIC PRESSURE CONTROLLER		
Ð	HUMIDISTAT		
S	TEMPERATURE SENSOR		
Ū	THERMOSTAT		
A.D.	ACCESS DOOR		
GA-100	GRILLE, REGISTER OR DIFFUSER WITH CFM		

MECHANICAL GENERAL NOTES

1.	ALL CONCEALED RECTANGULAR SUPPLY AND RETURN AIR DUCTWORK SHALL BE FIBERGLASS DUCTBOARD, UNLESS NOTED OTHERWISE ALL ROUND CONCEALED SUPPLY AIR DUCTWORK SHALL BE EXTERNALLY INSULATED WITH 1-1/2" THICK, 1-1/2 LB. DENSITY FLEXIBLE FOIL FACED FIBERGLASS DUCT WRAP, ALL OUTSIDE AIR DUCTWORK SHALL BE GALVANIZED SHEETMETAL WITH EXTERNAL FIBERGLASS INSULATION.
2.	ALL DUCT JOINTS SHALL BE SEALED WITH DUCT SEALANT.
3.	ALL SQUARE ELBOW DUCT TURNS SHALL BE EQUIPPED WITH TURNING VANES. VANES SHALL BE DUAL BLADE TYPE.
4.	SEE DUCT TRANSITION DETAILS FOR TYPICAL TURNS, TAKEOFFS, ETC.
5.	PROVIDE DUCT ACCESS DOORS AT ALL FIRE DAMPERS, SMOKE DAMPERS AND MOTORIZED DAMPERS.
6.	ALL PIPES PASSING THRU WALLS AND FLOORS SHALL HAVE PIPE SLEEVES. IN MECHANICAL EQUIPMENT ROOMS, ETC., AND AREAS WHERE THERE ARE FLOOR DRAINS.
7.	ALL CUTTING AND PATCHING OF WALLS, FLOORS, CEILINGS, ROOF, ETC., IS TO BE COMPLETED BY THE MECHANICAL CONTRACTOR UNLESS OTHERWISE NOTED.
8.	FOR MECHANICAL SPECIFICATIONS SEE THIS SHEET.
9.	IT IS STRONGLY RECOMMENDED THAT ALL BIDDERS VISIT & EXAMINE THE SITE. NO ADDITIONAL COMPENSATION WILL BE AWARDED FOR ANY DEVIATIONS OR DISCREPANCIES TO THESE PLANS. THE CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH ALL CONDITIONS UNDER WHICH WORK MUST BE PERFORMED, AND CHECK ALL PRESENT ELEVATIONS. THE CONTRACTOR SHALL REPORT ANY DISCREPANCIES TO THE ENGINEER. FAILURE TO DO SO SHALL BE DEEMED AS ACCEPTANCE OF EXISTING CONDITIONS.
10.	MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TEMPERATURE CONTROL WIRING REQUIRED FOR THIS PROJECT.
11.	CONTRACTOR SHALL VERIFY/CONFIRM ALL CONNECTIONS TO EXISTING SYSTEMS WITH OWNER'S REPERSENTATIVE PRIOR TO MAKING CONNECTIONS; TYPICAL FOR ALL PIPING AND DUCT SYSTEMS.
12.	WHERE FLEXIBLE DUCT IS USED FOR GRILLE AND DIFFUSER RUN-OUTS IT SHALL BE THE INSULATED TYPE AND SHALL NOT EXCEED 5'-0" IN LENGTH. ALL FLEXIBLE DUCTING SHALL BE INSTALLED PER THE MANUFACTURER'S WRITTEN INSTRUCTIONS.
13.	All round s.a. branch take-offs shall have spin-in fittings with air scoop and balancing damper. All round r.a. and e.a. branch take-offs shall have spin-in fittings with

BALANCING DAMPER.

ABBREVIATION KEY		ABBREVIATION KEY		x	/YLIE CITY ·	
ABBR.	ABBREVIATION DESCRIPTION	ABBR.	ABBREVIATION DESCRIPTION	AI	I WORK SHAI	
F	FRANCHISEE KES KITCHEN EQUIPMENT SUPPLIER		KITCHEN EQUIPMENT SUPPLIER	AN		
GC	GENERAL CONTRACTOR	K√S	KITCHEN VENTILATION SUPPLIER	DATE.		
EC	ELECTRICAL CONTRACTOR	INSTALL	EQUIPMENT INSTALLER	1.	THE CONTRA	
HC	HVAC CONTRACTOR	FIN. CON.	FINAL CONNECTIONS			
PC	PLUMBING CONTRACTOR	UC	UTILITY COMPANY	2.	THE LICENSEE	
LJ	LOCAL JURISDICTION	VLL	VERIFY WITH LANDLORD	SUCH MECH		
					DOCUMENTA	

OUTDOOR TEMPERATURE DESIGN

ALL HVAC EQUIPMENT SHALL BE DESIGNED TO MEET "ASHRAE" TEMPERATURE CONDITIONS AS FOLLOWS: COOLING, 0.4%, HEATING, 99.6%.

MI	ECHANICAL DRAWING LIST
M001	MECHANICAL ABBREVIATIONS, LEGENDS & NOTES
M002	MECHANICAL SPECIFICATIONS
M100	FLOOR & ROOF MECHANICAL PLAN
M400	MECHANICAL DETAILS (1 OF 2)
M401	MECHANICAL DETAILS (2 OF 2)
M500	MECHANICAL SCHEDULES
M600	HOOD DETAILS (1 0F 5)
M601	HOOD DETAILS (2 0F 5)
M602	HOOD DETAILS (3 0F 5)
M603	HOOD DETAILS (4 0F 5)
M604	HOOD DETAILS (5 0F 5)

	CONSTRUCTION D
3.	Tests of Mechai Following Sect A. Mechanica
4.	THE FOLLOWING COMPLY WITH THI A. DUCT CONS B. AIR INTAKES C. AIR FILTERS D. GAS FIRED E E. SMOKE DETI RESPECTIVE
5.	MINIMUM TEMPE HEATING SEASON
6.	VENTILATION FOR
7.	A STATEMENT SHA VENTILATION SYS DURING THE NOR 403.3.
8.	REFER TO ARCH SMOKE WALL COM
9.	THESE PLANS A APPLICATION SPE RELIED LIPON OR

- DRAWINGS.

- occupants.
- PORTION OF THE WAGES PAID.

- - MINIMIZE SHUTDOWN TIME.

- TEXAS, BUILDING DEPARTMENT NOTI

LL COMPLY WITH APPLICABLE SECTIONS OF 2021 IBC AND ALL ND RULES AND REGULATIONS OF THE DEPARTMENT OF BUILDINGS TO

ACTOR SHALL ENGAGE THE THE SERVICES OF A PROFESSIONAL PROVIDE THE REQUIRED SPECIAL INSPECTIONS AND TESTS.

D PROFESSIONAL ENGINEER, ARCHITECT OR OTHER PERSON HAVING IAN FIVE (5) YEARS EXPERIENCE SUPERVISING THE INSTALLATION OF HANICAL SYSTEMS AND CONDUCTING SUCH TESTS WILL FILE TION AND REPORTS OF TESTS THAT THE SYSTEM COMPLIES WITH THE DOCUMENTS AND APPLICABLE LAWS.

NICAL SYSTEMS SHALL BE PERFORMED IN ACCORDANCE WITH THE TIONS OF THE 2021 IMC:

AL VENTILATION - SECTION 403

WORK ITEMS, COMPONENTS, MATERIALS, CAPACITIES, ETC. SHALL E REFERENCED CODE OR STANDARD:

STRUCTION AND INSTALLATION- 2021 IMC 603 , EXHAUSTS AND RELIEF - 2021 IMC 401.5

2021 INTERNATIONAL MECHANICAL CODE 605

EQUIPMENT - 2021 FUEL & GAS CODE

FECTORS AND FIRE AND SMOKE DAMPERS - MC 606 & 607

ERATURE TO BE MAINTAINED IN OCCUPIED SPACES DURING J: 68 DEG. FAHRENHEIT.

R ALL AREA SHALL COMPLY WITH 2021 IMC 401.

HALL BE FILED BY THE OWNER OR TENANT IN POSSESSION THAT THE STEM WILL BE KEPT IN CONTINUOUS OPERATION AT ALL TIMES RMAL OCCUPANCY OF THE STRUCTURE AS REQUIRED BY 2021 IMC

ITECTURAL DRAWINGS FOR REQUIRED FIRE-RATED WALL AND NSTRUCTION AND LOCATION.

ARE APPROVED ONLY FOR THE WORK INDICATED ON THE ECIFICATION SHEET. ALL OTHER MATTERS SHOWN ARE NOT TO BE ED UPON OR TO BE CONSIDERED AS BEING APPROVED OR IN ACCORDANCE WITH APPLICABLE CODES.

10. ALL HEATING AND COOLING LOADS CALCULATED PER ASHRAE/ACCA 183.

SMOKE DETECTOR SHALL MEET UL268A.

GENERAL NOTES

CONTRACTOR SHALL SURVEY THE AREA OF THIS WORK BEFORE SUBMITTING A BIL AND SHALL BE RESPONSIBLE FOR NOTIFYING THE ARCHITECT OF ANY CONDITIONS WHICH WOULD PREVENT THE INSTALLATION OF THE WORK AS SHOWN ON

ALL APPLICABLE CODES, LAWS AND REGULATIONS GOVERNING OR RELATING TO ANY PORTION OF THIS WORK ARE HEREBY INCORPORATED INTO AND MADE A PART of these specifications, and their provisions shall be carried out by the CONTRACTOR WHO SHALL INFORM THE OWNER, PRIOR TO SUBMITTING A PROPOSAL OF ANY WORK OR MATERIALS WHICH VIOLATE ANY OF THE ABOVE LAWS AND REGULATIONS. ANY WORK DONE BY THE CONTRACTOR CAUSING SUCH VIOLATION | 28. THE FINAL ACCEPTANCE WILL BE MADE AFTER THE CONTRACTOR HAS ADJUSTED HIS SHALL BE CORRECTED BY THE CONTRACTOR.

BEFORE PROCEEDING WITH ANY WORK IN OCCUPIED OR USED AREAS, TH CONTRACTOR SHALL APPLY TO OWNER FOR PERMISSION TO ENTER SUCH AREAS. THE CONTRACTOR IS OBLIGED TO PERFORM HIS WORK ONLY AT THE TIMES DESIGNATED by owner. There will be no additional compensation for the work PERFORMED AFTER HOURS OR ON OFF-DAYS WITHOUT PRIOR WRITTEN APPROVAL.

THE WORK IN THE BUILDING SHALL BE DONE WHEN AND AS DIRECTED, AND IN A MANNER SATISFACTORY TO THE OWNER. THE WORK SHALL BE PERFORMED SO AS TO cause the least possible inconvenience and disturbance to the present

THE CONTRACTOR'S PROPOSAL FOR ALL WORK SHALL BE PREDICATED ON THE PERFORMANCE OF THE WORK DURING REGULAR WORKING HOURS. WHEN SO DIRECTED, HOWEVER, THE CONTRACTOR SHALL INSTALL WORK IN OVERTIME AND THE ADDITIONAL COST TO BE CHARGED THEREFORE SHALL BE ONLY THE "PREMIUM"

CONTRACTOR SHALL ASCERTAIN THE APPROPRIATE METHOD FOR BRINGING THE UNITS INTO AND THROUGH THE BUILDING TO POSITION UNIT IN LOCATION SHOWN ON THE PLANS. WHERE NECESSARY, EQUIPMENT SHALL BE SHIPPED FROM MANUFACTURER IN SECTIONS OF SIZE SUITABLE FOR MOVING THROUGH RESTRICTIVE spaces. Coordinate with building owner appropriate times of day such EQUIPMENT MAY BE MOVED THROUGH ALL AREAS.

DISCONNECT, REMOVE AND/OR RELOCATE EXISTING MATERIAL, EQUIPMENT AND OTHER WORK AS NOTED OR REQUIRED FOR PROPER INSTALLATION OF NEW SYSTEM.

WHERE PENETRATIONS THROUGH FIRE RATED WALLS ARE NOT FIRE PROOFED THIS Contractor shall be responsible to seal same to maintain the rated

CONNECT NEW WORK TO EXISTING WORK IN NEAT AND APPROVED MANNER. RESTORE EXISTING WORK DISTURBED WHILE INSTALLING NEW WORK TO ACCEPTABLE CONDITION AS DETERMINED BY ARCHITECT.

PLAN INSTALLATION OF NEW WORK AND CONNECTIONS TO EXISTING WORK TO INSURE MINIMUM INTERFERENCE WITH REGULAR OPERATION OF EXISTING FACILITIES. ALL SYSTEM SHUTDOWNS AFFECTING OTHER AREAS SHALL BE COORDINATED WITH BUILDING OWNER. INSTALL ISOLATION VALVES AT POINT OF CONNECTION TO THE EXISTING PIPING. PROVIDE TEMPORARY DUCT CAPS AND/OR CONNECTIONS TO

. SUPPORT ALL DUCTWORK AND PIPING FROM BUILDING STRUCTURE AND/OR FRAMING IN AN APPROVED MANNER. WHERE OVERHEAD CONSTRUCTION DOES NOT PERMIT FASTENING OR SUPPORTS FOR EQUIPMENT, FURNISH ADDITIONAL FRAMING. INSERTS SHALL BE STEEL, SLOTTED TYPE AND FACTORY PAINTED. MULTI-ROD SHALL BE SIMILAR TO FEE & MASON SERIES 9000 WITH END CAPS AND CLOSURE STRIPS. MAXIMUM LOADING INCLUDING PIPES, DUCTWORK CONTENTS AND COVERING SHALL NOT EXCEED 75% OF RATED INSERT CAPABILITY. WHEN SUPPORTING FROM BUILDING USE BEAM CLAMPS IN APPROVED MANNER.

2. PROVIDE ALL NECESSARY FLASHING AND COUNTER FLASHING TO MAINTAIN THE WATERPROOFING INTEGRITY OF THIS BUILDING AS REQUIRED BY THE INSTALLATION or removal of pipes, ducts, louvers, conduit, and equipment. Provide EQUIPMENT CURBS AND DUNNAGE STEEL AS REQUIRED.

- 3. SEAL OPENINGS AROUND DUCTS AND PIPING THROUGH PARTITIONS, WALLS AND FLOORS WITH MINERAL WOOL OR OTHER NONCOMBUSTIBLE MATERIAL (FIBERGLASS INSULATION IS NOT ACCEPTABLE).
- INSTALL WORK SO AS TO BE READILY ACCESSIBLE FOR OPERATION, MAINTENANCE AND REPAIR. MINOR DEVIATIONS FROM DRAWINGS MAY BE MADE TO ACCOMPLISH THIS, BUT CHANGES WHICH INVOLVE EXTRA COST SHALL NOT BE MADE WITHOUT APPROVAL.
- ACCESS DOORS ARE REQUIRED FOR ALL BUILDING SERVICE VALVES THAT RUN Through the space, and access door shall have the equal rated capacity (1HR, 2HR, ETC.) AS WALL. COORDINATE ALL LOCATIONS OF ACCESS DOORS WITH THE ARCHITECT.
- REMOVABLE ACCESS TILE AND/OR ACCESS DOOR ARE REQUIRED IN HUNG CEILINGS, SHAFTS AND WALLS FOR ALL VOLUME AND FIRE DAMPERS. AUTOMATIC DAMPERS AND ALL OTHER MECHANICAL EQUIPMENT AND DEVICES. HVAC CONTRACTOR TO FURNISH ACCESS LOCATION REQUIREMENTS TO GENERAL CONTRACTOR. ACCESS TILE IDENTIFICATION: PROVIDE BUTTONS, TABS, AND MARKERS TO IDENTIFY LOCATION OF CONCEALED VALVES, DAMPERS AND EQUIPMENT.
- THE CONTRACTOR SHALL KEEP ALL EQUIPMENT AND MATERIALS, AND ALL PARTS OF THE BUILDING, EXTERIOR SPACES AND ADJACENT STREETS, SIDEWALKS AND PAVEMENTS, FREE FROM MATERIAL AND DEBRIS RESULTING FROM THE EXECUTION OF THIS WORK. EXCESS MATERIALS WILL NOT BE PERMITTED TO ACCUMULATE EITHER ON THE INTERIOR OR THE EXTERIOR.
- UNLESS OTHERWISE SPECIFICALLY SPECIFIED, INCLUDE ALL CUTTING AND PATCHING OF EXISTING FLOORS, WALLS, PARTITIONS AND OTHER MATERIALS IN THE EXISTING BUILDING. THE CONTRACTOR SHALL RESTORE THESE AREAS TO ORIGINAL CONDITION.
- MATERIALS AND WORKMANSHIP, UNLESS OTHERWISE NOTED, SHALL BE IN ACCORDANCE WITH BUILDING STANDARDS.
- 20. ALL EQUIPMENT SHALL BE PROVIDED WITH ONE YEAR WARRANTY PARTS AND LABOR AND FIVE YEARS ON COMPRESSORS. WARRANTY PERIOD BEGINS UPON PROJECT ACCEPTANCE
- ALL MATERIAL AND EQUIPMENT TO BE NEW UNLESS OTHERWISE NOTED AND SHALL BE IN ACCORDANCE WITH BUILDING STANDARDS.
- 22. THE CONTRACTOR SHALL BE RESPONSIBLE FOR HIS WORK WITH ITS COMPLETION AND FINAL ACCEPTANCE AND SHALL REPLACE ANY OF THE SAME WHICH MAY BE DAMAGED, LOST, OR STOLEN WITHOUT ADDITIONAL COST TO THE OWNER.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE FAILURE OF ANY DUCTWORK system or equipment to function properly upon completion of his work UPON SAID SYSTEM OR EQUIPMENT.
- 4. SUBMIT SHOP DRAWING OF ALL WORK WHICH MUST BE APPROVED BY THE ARCHITECT AND ENGINEER BEFORE WORK COMMENCES.
- 25. ALL MATERIAL AND EQUIPMENT TO BE NEW UNLESS OTHERWISE NOTED AND SHALL BE IN ACCORDANCE WITH BUILDING STANDARDS.
- 26. SUBMISSION OF A PROPOSAL SHALL BE CONSTRUED AS EVIDENCE THAT A CAREFUL EXAMINATION OF THE PORTIONS OF THE EXISTING BUILDING, EQUIPMENT, ETC., Whi<mark>ch</mark> Affect This Work, and the access to such spaces, has been made and THAT THE CONTRACTOR IS FAMILIAR WITH EXISTING CONDITIONS AND DIFFICULTIES THAT WILL AFFECT THE EXECUTION OF THE WORK. LATER CLAIMS SHALL NOT BE MADE FOR LABOR, EQUIPMENT OR MATERIALS REQUIRED BECAUSE OF DIFFICULTIES ENCOUNTERED WHICH COULD HAVE BEEN FORESEEN DURING SUCH AN EXAMINATION. THE ON-SITE INSPECTION SHALL VERIFY EXISTING DUCTWORK, PIPING (SIZES, CLEARANCES, ETC) AND CONDITIONS.
- INSURANCE: IN ACCORDANCE WITH BUILDING REQUIREMENTS THE CONTRACTOR SHALL INCLUDE A HOLD HARMLESS CLAUSE FOR OWNER AND ENGINEER.
- EQUIPMENT. BALANCED THE VARIOUS SYSTEMS. DEMONSTRATED THAT IT FULFILLS THE REQUIREMENTS OF THE DRAWINGS AND SPECIFICATIONS AND HAS FURNISHED ALL THE REQUIRED CERTIFICATES OF INSPECTION AND APPROVAL.
- 29. SPECIFICATIONS ARE OF SIMPLIFIED FORM AND INCLUDE INCOMPLETE SENTENCES. Words or phrases such as "the contractor shall," "shall be," "furnish, "PROVIDE," "A," "THE," AND "ALL" HAVE BEEN OMITTED FOR BREVITY.
- 30. WHERE A CONFLICT EXISTS BETWEEN THE DRAWINGS. THE SPECIFICATIONS OR ANY OTHER CONSTRUCTION DOCUMENT, THE ONE WITH THE MOST STRINGENT REQUIREMENT(S) SHALL APPLY. DEFINITIONS:
- "PROVIDE": TO SUPPLY, INSTALL AND CONNECT UP COMPLETE AND READY FOR SAFE AND REGULAR OPERATION THE PARTICULAR WORK REFERRED TO UNLESS SPECIFICALLY OTHERWISE NOTED.
- "INSTALL": TO ERECT, MOUNT AND CONNECT COMPLETE WITH RELATED ACCESSORIES. "FURNISH" OR "SUPPLY": TO PURCHASE, PROCURE, ACQUIRE AND DELIVER COMPLETE WITH RELATED ACCESSORIES.

SCOPE OF WORK

SCOPE OF WORK

- . THE WORK UNDER CONTRACT INCLUDES ALL LABOR, MATERIALS AND APPLIANCES NECESSARY FOR THE FURNISHING, INSTALLING AND TESTING, COMPLETE AND READY FOR SAFE OPERATION OF THE SYSTEMS AS DESCRIBED IN THE SPECIFICATIONS, FLOOR PLAN(S) DESIGN, DETAIL DRAWINGS, NOTES, RFI'S, ETC. FOR THIS PROJECT. WORK SHALL BE INSTALLED IN A NEAT, WORKMANLIKE MANNER.
- 2. THE CONTRACTOR SHALL GIVE NECESSARY NOTICE, FILE DRAWINGS AND SPECIFICATIONS WITH THE DEPARTMENT HAVING JURISDICTION, OBTAIN PERMITS OR LICENSES NECESSARY TO CARRY OUT THIS WORK AND PAY ALL FEES THEREFORE. THE CONTRACTOR SHALL ARRANGE FOR INSPECTION AND TESTS OF ANY OR ALL PARTS OF THE WORK IF SO REQUIRED BY AUTHORITIES AND PAY ALL CHARGES FOR SAME. THE CONTRACTOR SHALL PAY ALL COSTS FOR, AND FURNISH TO THE OWNER BEFORE FINAL BILLING, ALL CERTIFICATES NECESSARY AS EVIDENCE THAT THE WORK INSTALLED CONFORMS WITH ALL REGULATIONS WHERE THEY APPLY TO THIS WORK.
- 3. THE CONTRACTOR SHALL FURNISH A WRITTEN GUARANTEE TO REPLACE OR REPAIR PROMPTLY AND ASSUME RESPONSIBILITY FOR ALL EXPENSES INCURRED FOR ANY WORKMANSHIP AND EQUIPMENT IN WHICH DEFECTS DEVELOP WITHIN ONE YEAR FROM THE DATE OF FINAL CERTIFICATE FOR PAYMENT AND/OR FROM DATE OR ACTUAL USE OF EQUIPMENT OR OCCUPANCY OF SPACES, BY OWNER, INCLUDED UNDER THE VARIOUS PARTS OF THE WORK, WHICHEVER DATE IS EARLIER. THIS WORK SHALL BE DONE AS DIRECTED BY THE OWNER. THIS GUARANTEE SHALL ALSO PROVIDE THAT WHERE DEFECTS OCCUR, THE CONTRACTOR WILL ASSUME RESPONSIBILITY FOR ALL EXPENSES INCURRED IN REPAIRING AND REPLACING WORK OF OTHER TRADES AFFECTED BY DEFECTS, REPAIRS OR REPLACEMENTS IN EQUIPMENT SUPPLIED BY THE CONTRACTOR.

DRAWINGS.

GENERAL:

- DOCUMENT DRAWINGS.

- FABRICATION.

VALVES.

- MECHANICAL ROOMS.
- ACCURACY.

- CONTRACTOR.
- FROM A METAL DECK.

- INSTALLATION.
- INSULATION IS APPLIED.

MECHANICAL NOTES

PROVIDE ALL MATERIAL AND EQUIPMENT AND PERFORM ALL LABOR REQUIRED TO INSTALL COMPLETE AND OPERABLE MECHANICAL SYSTEMS AS INDICATED ON THE DRAWINGS, AS SPECIFIED AND AS REQUIRED BY CODE.

2. CONTRACT DOCUMENT DRAWINGS FOR MECHANICAL WORK (HVAC, PLUMBING, AND FIRE PROTECTION) ARE DIAGRAMMATIC AND ARE INTENDED TO CONVEY SCOPE AND GENERAL ARRANGEMENT ONLY.

THE LOCATIONS OF ALL ITEMS SHOWN ON THE DRAWINGS OR CALLED FOR IN THE SPECIFICATIONS THAT ARE NOT FIXED BY DIMENSIONS ARE APPROXIMATE ONLY. THE EXACT LOCATIONS NECESSARY TO SECURE THE BEST CONDITIONS AND RESULTS MUST BE DETERMINED BY THE PROJECT SITE CONDITIONS AND SHALL HAVE THE **IPPROVAL OF THE ENGINEER BEFORE BEING INSTALLED. DO NOT SCALE**

THE LOCATION OF EXISTING UNDERGROUND UTILITIES IS APPROXIMATELY SHOWN. E CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING ILITIES BEFORE COMMENCING WORK. THE CONTRACTOR SHALL PAY FOR AND REPAIR ALL DAMAGES CAUSED BY FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES UNLESS OTHERWISE INDICATED.

WHEN MECHANICAL WORK (HVAC, PLUMBING, SHEET METAL, FIRE PROTECTION, ETC.) IS SUBCONTRACTED, IT SHALL BE THE MECHANICAL CONTRACTOR'S RESPONSIBILITY TO COORDINATE SUBCONTRACTORS AND THE ASSOCIATED CONTRACTS. WHEN DISCREPANCIES ARISE PERTAINING TO WHICH CONTRACTOR PROVIDES A PARTICULAR ITEM OF THE MECHANICAL CONTRACT OR WHICH CONTRACTOR PROVIDES FINAL CONNECTIONS FOR A PARTICULAR ITEM OF THE MECHANICAL CONTRACT, IT SHALL BE BROUGHT TO THE ATTENTION OF THE MECHANICAL CONTRACTOR, WHOSE DECISION SHALL BE FINAL.

COORDINATE CONSTRUCTION OF ALL MECHANICAL WORK WITH ARCHITECTURAL, STRUCTURAL, CIVIL, ELECTRICAL WORK, ETC., SHOWN ON OTHER CONTRACT

INSTALL ALL MECHANICAL EQUIPMENT AND APPURTENANCES IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. CONTRACT DOCUMENTS. AND APPLICABLE CODES AND REGULATIONS.

8. WHERE TWO OR MORE ITEMS OF THE SAME TYPE OF EQUIPMENT ARE REQUIRED, THE PRODUCT OF ONE MANUFACTURER SHALL BE USED.

9. COORDINATE ALL EQUIPMENT CONNECTIONS WITH MANUFACTURERS' CERTIFIED DRAWINGS. COORDINATE AND PROVIDE ALL DUCT AND PIPING TRANSITIONS REQUIRED FOR FINAL EQUIPMENT CONNECTIONS TO FURNISHED EQUIPMENT. FIELD VERIFY AND COORDINATE ALL DUCT AND PIPING DIMENSIONS BEFORE

ALL CONTROL WIRE AND CONDUIT SHALL COMPLY WITH THE NATIONAL ELECTRIC CODE AND ELECTRICAL DIVISION OF THE SPECIFICATION.

11. PROVIDE VIBRATION ISOLATION FOR ALL MECHANICAL EQUIPMENT TO PREVENT TRANSMISSION OF VIBRATION TO BUILDING STRUCTURE

12. PROVIDE VIBRATION ISOLATORS FOR ALL PIPING SUPPORTS CONNECTED TO, AND WITHIN 50 FT. OF, ISOLATED EQUIPMENT (EXCEPT AT BASE ELBOW SUPPORTS AND ANCHOR POINTS) THROUGHOUT MECHANICAL EQUIPMENT ROOMS. DO THE SAME FOR SUPPORTS OF STEAM MAINS WITHIN 50 FT. OF BOILER OR PRESSURE-REDUCING

PROVIDE VIBRATION ISOLATORS FOR ALL PIPING SUPPORTS OF STEAM MAINS WITHIN 50 FT. OF BOILERS AND PRESSURE-REDUCING VALVES.

14. MAINTAIN A MINIMUM 6'-8" CLEARANCE TO THE UNDERSIDE OF PIPES, DUCTS, CONDUITS, SUSPENDED EQUIPMENT, ETC., THROUGHOUT ACCESS ROUTES IN

15. LOCATE ALL TEMPERATURE, PRESSURE, AND FLOW MEASURING DEVICES IN ACCESSIBLE LOCATIONS WITH THE STRAIGHT SECTION OF PIPE OR DUCT UP- AND DOWNSTREAM AS RECOMMENDED BY THE MANUFACTURER FOR GOOD

16. ALL MECHANICAL ROOM DOORS SHALL BE A MINIMUM OF 4'-0" WIDE.

17. WHERE BEAMS ARE INDICATED TO BE PENETRATED WITH DUCTWORK OR PIPING, COORDINATE DUCTWORK AND PIPING LAYOUT WITH BEAM OPENING SIZE AND OPENING LOCATIONS. COORDINATION SHALL BE DONE PRIOR TO THE FABRICATION OF DUCTWORK, CUTTING OF PIPING, OR FABRICATION OF BEAMS.

18. ALL MISCELLANEOUS STEEL REQUIRED TO ENSURE PROPER INSTALLATION AND AS SHOWN IN THE DETAILS FOR PIPING, DUCTWORK, AND EQUIPMENT (UNLESS OTHERWISE NOTED) SHALL BE FURNISHED AND INSTALLED BY THE MECHANICAL

19. PROVIDE ACCESS PANELS FOR INSTALLATION IN WALLS AND CEILINGS, WHERE REQUIRED, TO SERVICE DAMPERS, VALVES, SMOKE DETECTORS, AND OTHER CONCEALED MECHANICAL EQUIPMENT. ACCESS PANELS SHALL BE TURNED OVER TO THE GENERAL CONTRACTOR FOR INSTALLATION. ACCESS PANELS SHALL HAVE THE EQUAL RATED CAPACITY (1HR, 2HR, ETC.) AS WALL.

20. MECHANICAL EQUIPMENT, DUCTWORK, AND PIPING SHALL NOT BE SUPPORTED

21. ALL EQUIPMENT, PIPING, DUCTWORK, ETC., SHALL BE SUPPORTED AS DETAILED, SPECIFIED AND REQUIRED TO PROVIDE A VIBRATION-FREE INSTALLATION.

22. ALL DUCTWORK, PIPING, AND EQUIPMENT SUPPORTED FROM STRUCTURAL STEEL SHALL BE COORDINATED WITH THE GENERAL CONTRACTOR. ALL ATTACHMENTS TO STEEL BAR JOISTS, TRUSSES, OR JOIST GIRDERS SHALL BE AT PANEL POINTS. PROVIDE BEAM CLAMPS MEETING MSS STANDARDS. WELDING TO STRUCTURAL MEMBERS SHALL NOT BE PERMITTED. THE USE OF C-CLAMPS SHALL NOT BE PERMITTED.

23. ALL ROOF-MOUNTED EQUIPMENT CURBS FOR EQUIPMENT PROVIDED BY THE MECHANICAL CONTRACTOR SHALL BE FURNISHED BY THE MECHANICAL CONTRACTOR AND INSTALLED BY THE GENERAL CONTRACTOR.

24. LOCATIONS AND SIZES OF ALL FLOOR, WALL, AND ROOF OPENINGS SHALL BE COORDINATED WITH ALL OTHER TRADES INVOLVED.

25. ALL OPENINGS IN FIRE WALLS DUE TO DUCTWORK, PIPING, CONDUIT, ETC., SHALL BE FIRE STOPPED WITH A PRODUCT SIMILAR TO 3M OR APPROVED EQUAL.

26. REFER TO TYPICAL DETAILS FOR DUCTWORK, PIPING, AND EQUIPMENT

27. ALL TESTS SHALL BE COMPLETED BEFORE ANY MECHANICAL EQUIPMENT OR PIPING

CONSULTANTS (ENGINEER):

NEARBY ENGINEERS 382 NE 191ST STREET SUITE 49674, MIAMI, FL 33179 PH-914.257.3455 WWW.NY-ENGINEERS.COM

	-	-
	ISSUE FOR PERMIT	03/31/23
NO.	DESCRIPTION	DATE
	REVISIONS	

ALL FIELD CONDITIONS AND DIMENSIONS ARE TO BE FIELD VERIFIED PRIOR TO COMMENCEMENT OF THE WORK. ALL DISCREPANCIES ARE TO BE BROUGHT TO THE ATTENTION OF THE ARCHITECT BEFORE PROCEEDING WITH THE WORK THESE DRAWINGS ARE THE PROPERTY OF JOHN WILLIAM LISTER ARCHITECT. THEY ARE NOT TO BE REPRODUCED IN PART OR IN WHOLE WITHOUT THE CONSENT OF JOHN WILLIAM LISTER ARCHITECT. THEY ARE TO BE USED ON THE PROJECT NOTED

HEREON ONLY.





HVAC SPECIFICATIONS	SECTION 233113 - METAL DUCTS	1.3 DUCT CLEANING A CLEAN EXISTING DUCT SYSTEM(S) REFORE TESTING ADJUSTING AND
SECTION 230593 - TESTING, ADJUSTING, AND BALANCING FOR HVAC	1.1 CONSTRUCTION	BALANCING.
	A. EACH DUCT SYSTEM SHALL BE CONSTRUCTED FOR THE SPECIFIC SMACNA DUCT	B. CLEAN THE FOLLOWING ITEMS:
	PRESSURE CLASSES ARE SPECIFIED BY THE DESIGNER, THE SMACNA 1 INCH WG	1. AIR OUTLETS AND INLETS.
1. AIR SYSTEMS: CONSTANT	PRESSURE, SEAL CLASS "A".	2. SUPPLY, RETURN, AND EXHAUST FANS.
	B. ALL DUCTWORK SHALL BE CONSTRUCTED TO SMACNA 1" WG DESIGN AND NOT LESS THAN THE FOLLOWING STANDARDS:	3. AIR-HANDLING UNITS.
A. THE CONTRACTOR SHALL PROCURE THE SERVICES OF A TESTING, ADJUSTING AND		4. COILS AND RELATED COMPONENTS.
BALANCING (TAB) SPECIALIST WHO SPECIALIZES IN HEATING, VENTILATION AND	DRIVE OR FLANGED AND BOLTED CONSTRUCTION WHEN FABRICATING	5. RETURN-AIR DUCTS, DAMPERS, ACTUATORS, AND TURNING VANES.
QUALIFICATIONS: AABC, NEBB OR TABB CERTIFIED.	FABRICATING ROUND SPIRAL DUCTWORK. SHEET METAL SCREWS MAY BE	6. SUPPLY-AIR DUCTS, DAMPERS, ACTUATORS, AND TURNING VANES.
	APPROVED LOCATIONS IF THE SCREW DOES NOT EXTEND MORE THAN 1/2	7. DEDICATED EXHAUST AND VENTILATION COMPONENTS AND MAKEUP AIR SYSTEMS.
A. THE TAB SPECIALIST SHALL PERFORM FLOW MEASUREMENTS OF ALL EXISTING AIR		1.4 DUCT SCHEDULE
AND HYDRONIC SYSTEMS THAT ARE TO REMAIN OR TO BE INCORPORATED INTO NEW WORK PRIOR TO THE STARTING OF WORK IN THE PROJECT SCOPE, A REPORT	FOR STEEL SHEET METAL, ZINC COATED (GALVANIZED) OR ZINC IRON	A. ALL DUCTS SHALL BE GALVANIZED STEEL EXCEPT AS FOLLOWS:
OF THESE MEASUREMENTS, INDICATING ANY AND ALL DEFICIENCIES SHALL BE	STANDARD SPECIFICATION FOR GENERAL REQUIREMENT FOR SHEET	8. MOIST ENVIRONMENT DUCT MATERIAL: ALUMINUM.
SUBMITTED FOR OWNER REVIEW.	SUPPORT SHALL BE GALVANIZED. CONNECTIONS TO WALLS OR FLOOR	
B. THE TAB SPECIALIST SHALL PERFORM FLOW MEASUREMENTS OF ALL NEW AIR AND HYDRONIC SYSTEMS AS LISTED ABOVE IN THE PROJECT SCOPE. A REPORT OF THESE	SHALL BE AIR TIGHT WITH ANGLE IRON AND CAULKING. SEAL ALL DUCT SEAMS, TRANSVERSE AND LONGITUDINAL, AIR TIGHT. PROVIDE TURNING	
MEASUREMENTS, INDICATING ANY AND ALL DEFICIENCIES SHALL BE SUBMITTED FOR OWNER REVIEW.	VANES ALL 90° ELBOWS.	SECTION 233713 - DIEELISERS REGISTERS AND GRILLES
C. THE REPORT SHALL INDICATE A SCHEMATIC DIAGRAM INDICATING LOCATIONS OF	3. USE ELBOWS AND TEES WITH A CENTER LINE RADIUS TO WIDTH OR DIAMETER RATIO OF 1.5 WHEREVER SPACE PERMITS. WHEN A SHORTER	
ALL EQUIPMENT TESTED AND MEASUREMENT LOCATIONS.	RADIUS MUST BE USED DUE TO LIMITED SPACE, INSTALL SINGLE WALL SHEET METAL SPLITTER VANES IN ACCORDANCE WITH SMACNA	1.1 PRODUCTS A DIFFUSERS REGISTERS AND GRILLES SHALL BE FURNISHED AND INSTALLED FOR
D. PRIOR TO FINAL INSPECTION OF THE WORK, THE TAB SPECIALIST SHALL BALANCE	PUBLICATIONS, TYPE RE 3. WHERE SPACE WILL NOT ALLOW AND THE C VALUE OF THE RADIUS ELBOW, AS GIVEN IN SMACNA PUBLICATIONS,	CAPACITIES AND IN LOCATIONS INDICATED ON DRAWINGS. ALL REGISTERS
E. THE CONTRACTOR SHALL HAVE FURNISH AND INSTALL ALL ADDITIONAL	EXCEEDS 0.31, USE RECTANGULAR ELBOWS WITH TURNING VANES AS SPECIFIED IN SECTION 23 33 00. SQUARE THROAT-RADIUS HEEL ELBOWS	FINISHED UNLESS OTHERWISE NOTED IN BAKED WHITE ENAMEL.
BALANCING EQUIPMENT, PRESSURE TAPS, GAUGES AND OTHER EQUIPMENT AS	WILL NOT BE ACCEPTABLE. STRAIGHT TAPS OR BULLHEAD TEES ARE NOT ACCEPTABLE.	B. MANUFACTURERS: PRICE
OWNER. SUCH ADDITIONAL EQUIPMENT SHALL ADHERE IN STRICT ACCORDANCE	4. WHERE RECTANGULAR ELBOWS ARE USED, PROVIDE TURNING VANES IN ACCORDANCE WITH SECTION 23 33 00.	1. SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE PRODUCT BY
WITH THE RESPECTIVE EQUIPMENT MANUFACTURER'S RECOMMENDATIONS.	5. PROVIDE EXPANDED TAKE-OFFS OR 45 DEGREE ENTRY FITTINGS FOR BRANCH DUCT CONNECTIONS WITH BRANCH DUCTWORK AIRFLOW	ONE OF THE FOLLOWING:
F. THE CONTRACTOR SHALL HAVE THE TESTING AND BALANCING SPECIALIST COORDINATE ALL WORK OF THIS S3ECTION WITH THE BUILDING MANAGER.	VELOCITIES GREATER THAN 700 FPM. SQUARE EDGE 90-DEGREE TAKE-OFF FITTINGS OR TRAIGHT TAPS WILL NOT BE ACCEPTED.	a. CARNES.
BALANCING WORK SHALL NOT CONFLICT WITH OTHER WORK SO AS TO MAINTAIN	6. BUTTON PUNCH SNAP-LOCK CONSTRUCTION WILL NOT BE ACCEPTED ON	b. HART & COOLEY INC.
G ALL INSTRUMENTS USED FOR TAB SHALL BE MAINTAINED IN GOOD WORKING	7. ROUND DUCTS MAY BE SUBSTITUTED FOR RECTANGULAR DUCTS IF SIZED IN	d METALAIRE INC
CONDITION AND ACCURATELY CALIBRATED.	ROUND DUCTS. NO VARIATION OF DUCT CONFIGURATION OR SIZES	e. NAILOR INDUSTRIES INC.
H. TOLERANCES: PLUS OR MINUS 5 PERCENT OF DESIGN VALUES.	PERMITTED EXCEPT BT WRITTEN PERMISSION OF THE ENGINEER.	f. RUSKIN
I. INSPECTIONS: RANDOM CHECKS BY OWNER OR ARCHITECT TO VERIFY FINAL	C. WHERE LATEST EDITION OF SMACNA DOES NOT CLEARLY STATE GAUGES AND/OR STIFFENERS TO BE USED OR, WHERE SMACNA STANDARDS REQUIRE	
J. ADDITIONAL TESTS: RANDOM TESTS WITHIN 90 DAYS OF COMPLETING TAB TO	INTERPRETATION, THE FOLLOWING MINIMUM METAL GAUGES AND BRACING SHALL BE USED:	C. ALL DIFFUSERS SHALL HAVE CONTROLLING/EQUALIZING GRID AND OPPOSED BLADE DAMPER UNLESS OTHERWISE NOTED.
VERIFY BALANCE CONDITIONS AND SEASONAL TESTS.		D. ALL DUCTED RETURN REGISTERS SHALL HAVE AN OPPOSED BLADE DAMPER
END OF SECTION 230593	USG MAX. SIDE INCHES TRANSVERSE JOINTS AND BRACING	UNLESS OTHERWISE NOTED.
	22 UP TO 12 S SLIP, DRIVE SLIP, ONE INCH POCKET LOCK ON 8 FOOT CENTERS	END OF SECTION 233713
	22 13 TO 24 1"X1"X1/8" ANGLES ON 4 FOOT CENTERS 20 25 TO 35 1"X1"X1/8" ANGLES ON 2 FOOT CENTERS	
1.1 QUALITY ASSURANCE		
SURFACE-BURNING CHARACTERISTICS: ALL INSULATION SHALL HAVE COMPOSITE	D. PROVIDE TAPPING IN DUCTS FOR THERMOMETERS WHERE SPECIFIED. IN ADDITION, PROVIDE AN AIRTIGHT PLUGGED TAPPING LOCATED AS FOLLOWS:	
JACKET TO THE INSULATION A FLAME-SPREAD INDEX OF 25, AND SMOKE-DEVELOPED	1. UPSTREAM OF EACH REHEAT COIL AND VAV BOX.	C403.4.1 THERMOSTATIC CONTROLS
INDEX OF 150 FOR INSULATION INSTALLED OUTDOORS; ACCORDING TO ASTME 84.	2. DOWNSTREAM OF EACH REHEAT COIL AND VAV BOX.	THE SUPPLY OF HEATING AND COOLING ENERGY TO EACH ZONE SHALL BE CONTROLLED
1.2 FIELD QUALITY CONTROL	E. FLAT OVAL OR ROUND DUCTWORK MAY BE PROVIDED IN LIEU RECTANGULAR	BY INDIVIDUAL THERMOSTATIC CONTROLS CAPABLE OF RESPONDING TO TEMPERATURE WITHIN THE ZONE. WHERE HUMIDIFICATION OR DEHUMIDIFICATION OR BOTH IS
A. FIELD INSPECTIONS: BY OWNER-ENGAGED AGENCY.	DUCTWORK WITH THE REINFORCEMENT FOR FLAT SIDES SAME AS SPECIFIEDFOR THERECTANGULAR DUCTWORK, AND AS PER SMACNA FLAT OVAL DUCT	PROVIDED, AT LEAST ONE HUMIDITY CONTROL DEVICE SHALL BE PROVIDED FOR EACH HUMIDITY CONTROL SYSTEM.
	CONSTRUCTIONSTANDARDS SHOWN IN FIG. 3-6 AND AS SHOWN IN FIG. 3-1 AND 3-2FOR ROUNDDUCTWORK.	A C403 4 1 2 DEADBAND
A. CONCEALED, RECTANGULAR, ROUND AND FLAT-OVAL, SUPPLY-RETURN,		WHERE USED TO CONTROL BOTH HEATING AND COOLING, ZONE THERMOSTATIC
OUTDOOR-AND EXHAUST-AIR DUCT AND AIR PLENUM INSULATION:	F. ALL DUCTWORK SHALL BE SEALED TO CLASS "A" AND LEAK TESTED TO MEAT SMACNA CLASS 6 FOR RECTANGULAR AND CLASS 3 FOR ROUND DUCTS.	DEADBAND OF AT LEAST 5°F (2.8°C) WITHIN WHICH THE SUPPLY OF HEATING AND
B. FLEXIBLE ELASTOMERIC, MINERAL-FIBER BLANKET, MINERAL-FIBER BOARD OR POLYOLEFIN WITH MINIMUM INSTALLED THERMAL RESISTANCE AS FOLLOWS:	1.2 MATERIALS	MINIMUM.
UNCONDITIONED SPACES WITHIN BUILDING: R-6	A. SINGLE-WALL RECTANGULAR DUCTS AND FITTINGS.	B. C403.4.1.3 SETPOINT OVERLAP RESTRICTION
WITHIN BUILDING ENVELOPE ASSEMBLY: R-8	B. SINGLE-WALL ROUND AND FLAT-OVAL DUCTS AND FITTINGS.	WHERE A ZONE HAS A SEPARATE HEATING AND A SEPARATE COOLING THERMOSTATIC CONTROL LOCATED WITHIN THE ZONE , A LIMIT SWITCH,
OUTSIDE OF BUILDING: R-8	C. SHEET METAL MATERIALS:	MECHANICAL STOP OR DIRECT DIGITAL CONTROL SYSTEM WITH SOFTWARE PROGRAMMING SHALL BE PROVIDED WITH THE CAPABILITY TO PREVENT THE
1.4 ITEMS NOT INSULATED:	1. GALVANIZED SHEET STEEL.	HEATING SET POINT FROM EXCEEDING THE COOLING SET POINT AND TO MAINTAIN A DEADBAND IN ACCORDANCE WITH SECTION C403.2.4.1.2.
1. FIBROUS-GLASS DUCTS.	2. STAINLESS-STEEL SHEETS.	
 METAL DUCTS WITH DUCT LINER OR SUFFICIENT THICKNESS TO COMPLY WITH ENERGY CODE ANDASHRAE/IESNA 90.1. 	3. ALUMINUM SHEETS.	EACH ZONE SHALL BE PROVIDED WITH THERMOSTATIC SETBACK CONTROLS THAT ARE CONTROL ED BY FITHER AN ALTOMATIC TIME CLOCK OR PROGRAMMABLE
3. FACTORY-INSULATED FLEXIBLE DUCTS.	4. FACTORY-APPLIED ANTI-MICROBIAL COATING.	CONTROL SYSTEM.
4. FACTORY-INSULATED PLENUMS AND CASINGS.	D. DUCT LINER:	D. C403.4.2.1 THERMOSTATIC SETBACK CAPABILITIES
5. FLEXIBLE CONNECTORS.	1. FIBROUS GLASS, TYPE I, FLEXIBLE.	THERMOSTATIC SETBACK CONTROLS SHALL HAVE THE CAPABILITY TO SET BACK OR TEMPORARILY OPERATE THE SYSTEM TO MAINTAIN ZONE TEMPERATURES DOWN TO
6. VIBRATION-CONTROL DEVICES.	a. WITH ANTI-MICROBIAL EROSION-RESISTANT COATING.	55°F (13°C) OR UP TO 85°F (29°C).
7. FACTORY-INSULATED ACCESS PANELS AND DOORS.	2. FLEXIBLE ELASTOMERIC.	E. C403.4.2.2 AUTOMATIC SETBACK AND SHUTDOWN CAPABILITIES AUTOMATIC TIME CLOCK OR PROGRAMMABLE CONTROLS SHALL BE CAPABLE OF
0. DUCIS IMAT MAVE INTEKNAL ACOUSTICAL LINING.	3. NATURAL FIBER.	STARTING AND STOPPING THE SYSTEM FOR SEVEN DIFFERENT DAILY SCHEDULES PER WEEK AND RETAINING THEIR PROGRAMMING AND TIME SETTING DURING A LOSS OF
	E. SEALANT MATERIALS:	POWER FOR AT LEAST 10 HOURS. ADDITIONALLY, THE CONTROLS SHALL HAVE A MANUAL OVERRIDE THAT ALLOWS TEMPORARY OPERATION OF THE SYSTEM FOR
A. THE FULLOWING INSULATION MANUFACTURERS WILL BE ACCEPTABLE:	1. TWO-PART TAPE SEALING SYSTEM.	UP TO 2 HOURS; A MANUALLY OPERATED TIMER CAPABLE OF BEING ADJUSTED TO OPERATE THE SYSTEM FOR UP TO 2 HOURS: OR AN OCCUPANCY SENSOR
1. JOHNS-MANVILLE	2. WATER-BASED JOINT AND SEAM SEALANT.	
Z. OWENS-CORNING	3. SOLVENT-BASED JOINT AND SEAM SEALANT.	F. C403.4.2.3 AUTOMATIC START CAPABILITIES AUTOMATIC START CONTROLS SHALL BE PROVIDED FOR EACH HVAC SYSTEM. THE
1.6 ACOUSTICAL TREATMENT	4. FLANGED JOINT SEALANT.	CONTROLS SHALL BE CAPABLE OF AUTOMATICALLY ADJUSTING THE DAILY START TIME OF THE HVAC SYSTEM IN ORDER TO BRING EACH SPACE TO THE DESIRED
1. WHERE SHOWN ON THE DRAWINGS, LOW PRESSURE DUCTWORK SHALL BE LINED WITH 1.5" THICK R-6 AS MANUFACTURED BY DUCTMATE 1-1/2 POLIND	5. FLANGE GASKETS.	OCCUPIED TEMPERATURE IMMEDIATELY PRIOR TO SCHEDULED OCCUPANCY.
MINIMUM DENSITY, NEOPRENE COATED, FLEXIBLE FIBERGLASS DUCT LINER. LINING SHALL COMPLY WITH NEPA 90A AND SHALL HAVE A FLAME SPREAD	6. ROUND DUCT JOINT O-RING SEALS.	
CLASSIFICATION OF NOT MORE THAN 25 AND A SMOKE DEVELOPED RATING NOT MORE THAN 50. DUCT SIZES WHERE I INING IS INDICATED ON PLANS ARE		
MINIMUM INSIDE CLEAR DIMENSIONS REQUIRED,		

END OF SECTION 230713



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CONTRACTOR SHALL BALANCE EACH DEVICE WITH THE CFM SHOWN ON PLAN.

NEW DUCTWORK SHOWN ON PLAN ARE SCHEMATIC ONLY. CONTRACTOR SHALL COORDINATE WITH OTHER TRADES FOR PIPING AND DUCTWORK ROUTING. OFFSET AND RUN PIPING, DUCTWORK INSIDE THE STRUCTURE IF REQUIRED. PROVIDE ANY EXTRA PIPING, DUCTWORK, FITTINGS, INSULATIONS AND OTHER ACCESSORIES IN ORDER TO COMPLETE THE INSTALLATION.

EQUIPMENT SIZES, DIMENSIONS AND REQUIRED CONNECTIONS SHALL BE VERIFIED WITH THE ACTUAL EQUIPMENT SELECTED VENDOR DRAWINGS BEFORE FABRICATION OF DUCTWORK, PIPING ETC. DUCT SIZES SHOWN ON PLANS ARE CLEAR INSIDE AIR STREAM DIMENSIONS.

CONTRACTOR SHALL COORDINATE ALL ELECTRICAL REQUIREMENTS FOR ALL HVAC BASED ON ACTUAL EQUIPMENT SELECTED PRIOR TO INSTALLATION. CONTRACTOR SHALL COORDINATE EQUIPMENT WEIGHTS AND SUPPORTS BASED ON ACTUAL

MOUNT DUCTWORK AS HIGH AS POSSIBLE.

TEST AND BALANCE AIR SYSTEMS. PROVIDE REPORT TO G.C AND OWNER. NEW DUCTWORK IN CONCEALED AREAS MAY BE RECTANGULAR WITH EQUIVALENT CROSS SECTIONAL

PROVIDE R-8 INSULATION FOR OAI DUCT AND R-6 INSULATION FOR SUPPLY AND RETURN DUCT. PROVIDE FIRE OR FIRE+SMOKE DAMPER WHEREVER DUCTS ARE CROSSING FIRE/SMOKE RATED WALLS/BARRIERS. COORDINATE WITH ARCHITECTURAL DRAWINGS FOR FIRE RATINGS OF THE WALLS COORDINATE WITH ELECTRICAL ENGINEER FOR POWER REQUIREMENT FOR FSD.

PROVIDE CHORD OPERATED DAMPERS IN INACCESSIBLE CEILING. OUTDOOR AIR INTAKE, EXHAUST OPENINGS SHALL BE PROVIDED WITH CLASS I MOTORIZED DAMPERS. HE DAMPERS SHALL HAVE AN AIR LEAKAGE RATE NOT GREATER THAN 4 CFM/FT2 OF DAMPER SURFACE AREA AT 1.0 INCH WATER GAUGE (249 PA) AND SHALL BE LABELED BY AN APPROVED AGENCY WHEN TESTED IN ACCORDANCE WITH AMCA 500D.

PROVIDE WEATHER PROOF COATING FOR ALL EXTERIOR PIPING INSULATION. ALL EQUIPMENT SHALL MAINTAIN MINIMUM CLEARANCE FROM THE COMBUSTIBLE MATERIAL AS PER MANUFACTURE RECOMMENDATION.

PROVIDE CLEAN OUT AT ALL ELBOWS AND BOTTOM OF RISER AND EVERY 15 FEET HORIZONTAL COMMERCIAL KITCHEN GREASE DUCTS SHALL BE DESIGNED FOR THE TYPE-1 OF COOKING APPLIANCE

8. KITCHEN EXHAUST DUCT SHALL BE CONSTRUCTED OF 0.0575-INCH NO.16 GAUGE STEEL

19. JOINTS, SEAMS AND PENETRATIONS OF GREASE DUCTS SHALL BE MADE WITH A CONTINUOUS LIQUID TIGHT WELD OR BRAZE MADE IN THE EXTERNAL SURFACE IF THE DUCT SYSTEMS. 20. DUCT TO EXHAUST FAN CONNECTIONS SHALL BE FLANGED, GASKETED AND BOLTED TO THE INLET OF

THE FAN FOR SIDE-INLET UTILITY FANS APPROVED FLEXIBLE CONNECTIONS MAY BE PROVIDED. I. A VIBRATION ISOLATION CONNECTOR FOR CONNECTING A DUCT TO A FAN SHALL CONSIST OF NON-COMBUSTIBLE PACKING IN A METAL SLEEVE JOINT OF APPROVED DESIGN OR SHALL BE A COATED-FABRIC FLEXIBLE DUCT CONNECTOR LISTED AND LABELED FOR THE APPLICATION. VIBRATION ISOLATION CONNECTORS SHALL BE INSTALLED ONLY AT THE CONNECTION OF A DUCT TO A FAN INLET

22. GREASE DUCT BRACING AND SUPPORTS SHALL BE OF NON-COMBUSTIBLE MATERIAL SECURELY ATTACHED TO THE STRUCTURE AND DESIGNED TO CARRY GRAVITY AND SEISMIC LADS WITHIN THE STREET LIMITATIONS OF THE NEW YORK CITY BUILDING CODE. BOLTS, SCREWS, RIVETS AND OTHER MECHANICAL FASTENERS SHALL NOT PENETRATE DUCT WALLS.

23. THE CLEANOUTS FOR HORIZONTAL GREASE DUCT SHALL BE LOCATED ON THE SIDE OF THE DUCT WITH THE OPENING NOT LESS THAN 1.5" ABOVE THE BOTTOM OF THE DUCT AND NOT LESS THAN 1" BELOW

4. Exhaust duct from vent must be fire wrapped with minimum 2 hour protection board to THE ROOF DECK AND MEET ALL APPLICABLE CITY CODES.

26. PROVIDE 2 LAYERS OF 1.5" THICK FIRE WRAP TO KITCHEN EXHAUST DUCTS AS PER MANUFACTURER'S

MECHANICAL FLOOR & ROOF PLAN KEY NOTES

MECHANICAL CONTRACTOR TO COORDINATE T-STAT LOCATION WITH TENANT. INSTALL AND WIRE NEW 7-DAY PROGRAMMABLE THERMOSTAT WITH RESPECTIVE DOAS. PROVIDE INSULATION AT THE

2 EXTEND FULL SIZE SUPPLY & RETURN DUCTWORK FROM DOAS UNITS TO SPACE. EXTEND AS SHOWN. ACOUSTICALLY LINE THE FIRST 10'-0" OF BOTH SUPPLY AND RETURN MAIN DUCTS.

TEMPERATURE SENSOR TIED INTO DESIGNATED DOAS UNIT. COORDINATE FINAL REQUIREMENT/LOCATION WITH ARCHITECT / OWNER. PROVIDE INSULATION AT THE BACK.

CEILING MOUNTED EXHAUST FAN. INTERCONNECT EXHAUST FAN WITH DOAS-2. FAN SHALL BE SUSPENDED FROM STRUCTURE ABOVE, VERIEY EXACT LOCATION OF STRUCTURAL MEMBERS PRIOR TO SUSPENDED FROM STRUCTURE ABOVE. VERIFY EXACT LOCATION OF STRUCTURAL MEMBERS PRIOR TO

A 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 SYSTEM SENSOR MODEL DH100ACDCLP OR EQUAL.

(6) KITCHEN EXHAUST INSTALLATION SHALL BE ACCORDING TO SECTION 506 OF 2021 IMC.

THE KITCHEN EXHAUST DUCT TERMINATING ABOVE THE ROOF SHALL HAVE DISCHARGE OPENING LOCATED NOT LESS THAN 40 INCHES ABOVE THE ROOF LEVEL. THE DISCHARGE FLOW SHALL BE DIRECTED AWAY FROM THE STRUCTURE OF THE ROOF. PROVIDE 2FT. TALL WIND BAND FOR THE

B TYPE-I HOOD. RUN SHEET METAL DUCT FROM CONNECTION ON HOOD TO RESPECTIVE EXHAUST FAN. OFFSET AND TRANSITION AT CONNECTIONS AS NEEDED. VERIFY DIMENSIONS PRIOR TO FABRICATION OR INSTALLATION. USE FACTORY-MANUFACTURED PIPE AND FITTINGS ONLY. VERIFY LOCATION ON SITE WITH MOST RECENT KITCHEN PLANS.

(9) DUCT SHALL BE SLOPED 1/4" UNIT VERTICAL IN 12" UNIT HORIZONTAL TOWARDS HOOD.

(10) COMMERCIAL KITCHEN GREASE DUCTS SHALL BE DESIGNED FOR THE TYPE-1 HOOD SERVED. PROVIDE 2 LAYERS OF 1.5 INCH FIRE WRAP (MINIMUM 2-HR RATATED) FOR GREASE DUCTS.

COORDINATE WITH BASE-BUILDING ENGINEER FOR KITCHEN EXHAUST DUCT ROUTING AND CONNECTION. NOTIFY THE ENGINEER OF ANY DISCREPANCY BEFORE COMMENCING BID.

02"/02" PVC WATER HEATER CONCENTRIC FLUE/VENT UP TO ROOF. INSTALL AS PER MANUFACTURES

NET RECOMMENDATIONS ROUTE CONDENSATE DRAIN FROM DOAS ON THE ROOF TO THE NEAREST DRAIN POINT (SANITARY SEWER), DRAIN TO DOWNSPOUTS IS NOT ALLOWED AS PER CODE. CONNECT TO A DRAIN LINE VIA AIR

CONTRACTOR TO FIELD VERIFY THAT THE LOCATION OF ANY EXHAUST SOURCE FROM ADJACENT TENANTS SHOULD BE AT LEAST 10' AWAY FROM DOAS.

EXHAUST DUCT UP THROUGH ROOF. MAINTAIN A MINIMUM OF 10'-0" FROM ALL OUTSIDE AIR INTAKES AND TERMINATE 36" ABOVE ROOF.

COORDINATE FINAL LOCATION OF EQUIPMENT WITH STRUCTURAL ENGINEER, VERIFY THAT ROOF PENETRATIONS AND DOAS UNITS STRUCTURAL SUPPORTING MEETS THE SHELL BUILDING REQUIREMENTS, PROVIDE AS/IF ANY STRUCTURAL MODIFICATIONS REQUIRED.

PVC WATER HEATER CONCENTRIC FLUE/VENT. TERMINATE VENT AT LEAST 36" ABOVE ROOF. INSTALL AS PER MANUFACTURES RECOMMENDATIONS.

CONTRACTOR TO FIELD VERIFY THAT THE LOCATION OF ANY OUTSIDE AIR INTAKE SOURCE FROM ADJACENT TENANTS SHOULD BE AT LEAST 10' AWAY FROM THE EF-1 & EF-2.

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ALL FIELD CONDITIONS AND DIMENSIONS ARE TO BE FIELD VERIFIED PRIOR TO COMMENCEMENT OF THE WORK. ALL DISCREPANCIES ARE TO BE BROUGHT TO THE ATTENTION OF THE ARCHITECT BEFORE PROCEEDING WITH THE WORK THESE DRAWINGS ARE THE PROPERTY OF JOHN WILLIAM LISTER ARCHITECT. THEY ARE NOT TO BE REPRODUCED IN PART OR IN WHOLE WITHOUT THE CONSENT OF JOHN WILLIAM LISTER ARCHITECT. THEY ARE TO BE USED ON THE PROJECT NOTED

HEREON ONLY.



03/31/23 AS INDICATED SCAL NYE DRAWN BY M100 NYE CHECKED B 23045 PROJECT

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TYPICAL DOAS UNIT INSTALLATION DETAIL NO SCALE



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		-
DOAS ROOFTOP HEATING AND AIR CONDITIONING UNIT SCHEDU	LE (basis of design: captiveaire)	

ТАС		FAN	SECTION			COO	LING SECT	ΓION					REHEAT	SECTION				
IAG	DWG	AREA	SERVICE	CFM	CFM OA	ESP	RPM	TONS	EAT (DB)	EAT (WB)	LAT	TOTAL MBH	SENS. MBH	REF.	LAT (DB)	LAT (WB)	MBH (DESIRED)	MBH (M
DOAS-1	M100	ON ROOF	KITCHEN	2300	1540	.5"	1465	12.0	99.0°F	76.0°F	51.1°F	142.2	95.1	R410A	70.0°F	60.3°F	48.3	96.0
DOAS-2	M100	ON ROOF	DINING	1750	1750	.5"	1300	12.0	85.2°F	78.5°F	55.1°F	144.0	55.7	R410A	70.0°F	60.3°F	28.8	96.0
									-									

NOTES. 1. INVERTER SCROLL COMPRESSOR WITH INTEGRATED OIL SENSOR. DIGITAL OR STAGED SCROLL NOT AN APPROVED EQUAL

2. DIRECT DRIVE PLENUM BLOWER. BELT DRIVEN BLOWERS ARE NOT ACCEPTABLE 3. INTEGRATED MONITORING VIA CELLULAR CONNECTION BY MANUFACTURER

4. REFRIGERATION PRESSURE MONITORING ON HIGH AND LOW PRESSURE SIDE OF SYSTEM INCLUDED THROUGH DIGITAL INTERFACE

5. EC MOTOR CONDENSING FANS

6. ELECTRONIC EXPANSION VALVE. TXV NOT ACCEPTABLE

7. SUCTION LINE ACCUMULATOR 8. FACTORY COMMISSIONING WITH 5 YEAR PARTS WARRANTY, 25 YEAR WARRANTY ON STAINLESS STEEL HEAT EXCHANGER

WITHIN UNIT)

11.81% EFFICIENT FURNACE, WITH MODULATING INDUCER TO MAINTAIN CONSTANT COMBUSTION EFFICIENCY ACROSS FIRING RANGE. 6:1 TURNDOWN WITH NG AND 5:1 TURNDOWN WITH LP

- 13. FULLY MODULATING HOT GAS REHEAT 14. 15 DEGREE LOW AMBIENT OPERATION
- 15. DOWN DISCHARGE/DOWN RETURN
- 16. UNIT MOUNTED NON FUSED DISCONNECT SWITCH.

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9. AVERAGING INTAKE, EVAP AND DISCHARGE TEMPERATURE SENSORS (DISCHARGE SENSOR TO BE FACTORY MOUNTED

10. 2" EXTERIOR DUAL-WALL CONSTRUCTION W/ R-13 INSULATION-MINIMUM 20GA EXTERIOR W/ 14GA BASE

тас	LOCATIO	NC	TVDE	CEM	ECD		FAN		BIRD		BACKDR.	MOTO	R DATA		
DAT	DWG	ROOM NO.		CHIVI	"د⊐	DRIVE	RPM	CORD	SCREEN	DISC.	DAMPER	HP	FLA	MOCP	VOL
EF-1	M100	ROOF	UPBLAST CENTRIFUGAL	1650	1.0"	DIRECT	1329	12" MIN.	-	YES	-	0.75	8.9	20	115/
EF-2	M100	ROOF	UPBLAST CENTRIFUGAL	1400	1.0	DIRECT	1256	12" MIN.	-	YES	-	0.75	8.9	20	115/
EF-3	M100	TOILET	CEILING CENTRIFUGAL	70	0.25"	DIRECT	700	-	YES	YES	YES	0.043	0.3	20	115/1
EF-4	M100	TOILET	CEILING CENTRIFUGAL	70	0.25"	DIRECT	700	-	YES	YES	YES	0.043	0.3	20	115/1

EXHAUST FANS FURNISHED BY MECHANICAL CONTRACTOR. E.C. SHALL COORDINATE WITH MECHANICAL CONTRACTOR FOR SWITCHING AND CONTROLS AND PROVIDE ALL NECESSARY WIRING REQUIRED. PROVIDE THERMAL OVERLOAD PROTECTION, BACKDRAFT DAMPER, AMCA SEAL & UL CERTIFIED.

INTERLOCK TOILET EXHAUST FAN EF-3,4 WITH DOAS-2. COORDINATE WITH ELECTRICAL CONTRACTOR. PROVIDE ALL NECESSARY ACCESSORIES AS PER MANUFACTURER'S RECOMMENDATIONS.

EF-1,2 SHALL BE CONTROLLED BY HOOD CONTROLS. INTERLOCK DOAS-1 TO OPERATE IN OCCUPIED MODE WHILE KITCHEN EXHAUST FAN IS ENERGIZED.

REFER TO CAPTIVE-AIRE DEAWINGS FOR SPECIFICATIONS AND MORE DETAILS. SCHEDULES SHOWN FOR REFERENCE ONLY.

HC	HOOD SCHEDULE (BASIS OF DESIGN: CAPTIVEAIRE)													
TAG	LENGTH	TYPE	MODEL	SEVICE	MAX. COOKING TEMPERATURE	EXHAUST AIR (CFM)	SP IN.WG	CONSTRUCTION	APPLICATION DUTY	FIRE SYSTEM PIPING	WEIGHT	NOTES		
HOOD-1	6'-0"	Ι	6024ND-2	KITCHEN	600° F	1650	0.717	430SS WHERE EXPOSED	HEAVY	YES	363	1-2		
HOOD-2	7-0"	I	6024ND-2	KITCHEN	600° F	1400	0.826	430SS WHERE EXPOSED	HEAVY	YES	783	1-2		
NOTES	NOTES: NOTES: I REFER TO CAPTIVE-AIRE DEAWINGS FOR SPECIFICATIONS AND MORE DETAILS. SCHEDLILES SHOWN FOR REFERENCE ONLY													

NGS FOR SPECIFICATIONS AND MORE DETAILS. SCHEDULES SHOWN FOR REFERENCE ONLY. PROVIDE ALL NECESSARY ACCESSORIES AS PER MANUFACTURER'S RECOMMENDATIONS.

GR	GRILLE, REGISTER AND DIFFUSER SCHEDULE													
TAG	TAG SERVICE TYPE NECK MAX. CFM SP PATTERN MAX. NC DAMPER NOM. MODULE MTG. FINISH MAKE MODEL NOTES													
RA	RA S.A. DOUBLE DEFL. 20" x 6" 300 .03" DOUBLE DEFL. 20 AIR SCOOP — DUCT BY ARCHITECT PRICE SDG 1,2,4													
GA	GA R.A. 45° DEFLECTION 22" x 22" 1600 .03" 45° DEFLECTION 20 NO 24" x 24" LAY-IN BY ARCHITECT PRICE 630 1,2,3,4													
DA	DA S.A. PLAQUE 8" Ø 200 .03" 4-WAY 20 NO 24" x 24" LAY-IN BY ARCHITECT PRICE SPD 1,2,3,4													
DB	S.A.	2-SLOT	12" Ø	200	.03"	ADJUSTABLE	20	NO	48" LONG	LAY-IN	BY ARCHITECT	PRICE	TBD4	1,2,4
DC	S.A.	LOUVER FACE	6" x 6"	50	.03"	2-WAY	20	NO		SURFACE	BY ARCHITECT	PRICE	AMD-2G	1,2,3,4
NOTES: 1. ALL DEVICES TO BE FINISHED WITH AN ENAMEL FINISH, COLOR BY ARCHITECT. COORDINATE DEVICE COLORS WITH ARCHITECT PRIOR TO ORDERING. 2. ALL DEVICES SHALL BE FURNISHED WITH FRAMES SUITABLE FOR TYPE OF INSTALLATION REQUIRED. 3. PROVIDE DUCT TRANSITIONS FOR ALL SUPPLY DIFFUSERS WITH NECK SIZES DIFFERENT THAN SUPPLY DUCT RUN-OUTS. 4. CONTRACTOR SHALL COORDINATE WITH LATEST ARCHITECTURAL REFLECTED CEILING PLANS PLANS TO ENSURE PROPER AIR DEVICE BORDER SELECTION.														

	AIR BALANCE											
UNIT	SUPPLY AIR (CFM)	outdoor Air (cfm)	%OA	RETURN AIR (CFM)	EXHUAST AIR (CFM)							
DOAS-1	2300	1540	67	760	-							
DOAS-2 1750 1750 100 0 -												
EF-1 - - - 1650 EF-2 - - - 1400												
												EF-3
EF-4	-	-	-	-	70							
TOTAL	4050	3290		760	3190							
	BUI	LDING PRESS	URE:	100 CFM	POSITIVE							
NOTES:- 1. CONTRACTOR TO ADJUST MOTORIZED DAMPER ON FRESH AIR TAP TO PROVIDE OUTSIDE AIR AS MENTIONED IN ABOVE TABLE.												

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SR NO	ROOM NAME	AREA SQFT	NUMBER OF PEOPLE /1000SQFT AS PER IMC 2021	NUMBER OF PEOPLE AS PER IMC 2021	N (Fl
1	SEATING AREA	877	30	26 🧹	
2	TEA BAR	102	15	2	
3	KITCHEN	711	20	14	
4	MENS RESTROOM	42	-		
5	WOMENS RESTROOM	42	-		
	TOTAL				

		GAS HE	ATING SE	CTION			FILTERS			ELECTR	ICAL		ACCESSORIE	S		
AX.)	MOISTURE REMOVAL RATE	TYPE	MBH IN	MBH OUT	EAT	LAT	TYPE	EFF.	VELOCITY	MCA	MFA	VOLTAGE	ROOF CURB	DISC. SW.	CONTROL TYPE	THERMOSTA
	43.2 LBS./HR.	N.G.	148.2	120.0	45.0°F	103.0	T/A	30%	326 FPM	59.4	60.0	208/3/60	YES	YES	DIGITAL INTERFACE	HEAT/COOL
	79.5 LBS./HR.	N.G.	148.2	120.0	59.0°F	117.0	T/A	30%	326 FPM	56.1	60.0	208/3/60	YES	YES	DIGITAL INTERFACE	HEAT/COOL

12. SUPPLY CFM MONITORING INTEGRAL TO UNIT WITH CFM MEASUREMENT INCLUDED THROUGH DIGITAL INTERFACE

19. PROVIDE DUCT MOUNTED SMOKE DETECTOR IN RETURN SIDE.

20. PROVIDE MERV 8 & MERV13 FILTER. 21. GAS PRESSURE REQUIRED REQUIRED RTU (7 TO 14" WG).

22. PROVIDE ULTRA LOW LEAK ECONOMIZER WITH FULL FDD CONTROLS & PANEL.

23. PROVIDE TEMPERATURE & ENTHALPY SENSORS TO OPERATE THE ECONOMIZER MODE. 24. PROVIDE MOTORIZED DAMPERS ON SUPPLY AIR, RETURN AIR AND OUTSIDE AIR INTAKE DUCT

FUNCTION.

17. HINGED ACCESS PANELS AND EXTERNAL GAUGE PORTS/PRESSURE RESETS.14" ROOF CURB. 18. PROVIDE 7-DAYS PROGRAMMABLE THERMOSTAT. ALL T-STAT & H-STAT PROVIDED WITH LOCKING COVERS. 25. PROVIDE BAROMETRIC RELIEF DAMPER TO PURGE EXCESS AIR WHILE OPERATING ON ECONOMIZER M 26. FOR NORMAL MODE OPERATION: SET RETURN AIR AND OUTSIDE AIR DAMPERS PER THE 'AIR HANDLIN 27. FOR ECONOMIZER MODE OPERATION: WHEN OUTDOOR AIR ENTHALPY EXCEEDS RETURN AIR ENTHAL TEMPERATURE SENSOR DETECTS <75° AMBIENT TEMPERATURE DURING COOLING MODE, THE RETUR COMPLETELY SHUT AND THE OUTSIDE AIR DAMPER IS TO COMPLETELY OPEN.

-	SONES	MODEL NO.	NOTES	REMARKS
	11.4	DU85HFA	5,6,7	
	9.8	DU85HFA	5,6,7	
	2.5	CFA-D90-CA	1,2,3,4,5	W/ ROOF DISCHARGE CAP
	2.5	CFA-D90-CA	1,2,3,4,5	W/ ROOF DISCHARGE CAP

OUTDOOR TEMPERATURE DESIGN

ALL HVAC EQUIPMENT SHALL BE DESIGNED TO MEET "ASHRAE" TEMPERATURE CONDITIONS AS FOLLOWS; COOLING, 0.4%, HEATING, 99.6%.

ALL KITCHEN VENTILATION EQUIPMENT SHALL BE DESIGNED, DRAWN, PERMITTED AND FURNISHED BY "CAPTIVEAIRE" FOR INSTALLATION BY G.C/H.C. - CAPTIVEAIRE CONTACT: JACOB PUFFER, 38255 W. 10 MILE, SUITE "B", FARMINGTON, MI 48335, PHONE: 248.658.0509, FAX: 919.516.8735, EMAIL: REG123@CAPTIVEAIRE.COM

sones	MODEL NO.	NOTES	REMARKS
11.4	DU85HFA	5,6,7	
9.8	DU85HFA	5,6,7	
2.5	CFA-D90-CA	1,2,3,4,5	W/ ROOF DISCHARGE CAP
2.5	CFA-D90-CA	1,2,3,4,5	W/ ROOF DISCHARGE CAP



-

-

42

-

70

140

-

518

٩T	WEIGHT	MODEL	IEER	ISMRE	NOTES
L	2030 LBS	CASRTU2-I.150-18-10T	18.6	4.3	1-27
L	2015 LBS	CASRTU2-I.150-18-10T	18.6	4.3	1-27
TS OE IG I ALP RN	For 'ecc de. Unit schi y or out Air dam	DNOMISER' EDULE'. DOOR AIR IPER IS TO			

KITCHEN VENTILATION SYSTEM

CONSULTANTS (ENGINEER):

NEARBY ENGINEERS 382 NE 191ST STREET SUITE 49674, MIAMI, FL 33179 PH-914.257.3455 WWW.NY-ENGINEERS.COM

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AS INDICATED SCALE NYE DRAWN BY M500 NYE CHECKED B 23045 PROJECT

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					FNT		25														
	FOR QUESTIC Detroit REGI	INS, CALL Mechanical ION 123	THE	EXH	AUST H	DDDS ND-	-2/BD-2/S	SND-2 (CA	NADA)	- CA PATENT 2520435	C.									THE CAPTRATE GREASE-STOP A UNIQUE S-BAFFLE DESIGN 1	SOLD FILTER IS A SINGLE-STAGE N CONJUNCTION WITH A SLOTTED F TRATION EFECTION
	EMAIL: regi23	ecaptiveaire	.com																	FILTER IS STAINLESS STEEL 2-INCH DEEP HOOD CHANNELS	CONSTRUCTION, AND SIZED TO FIT
	TAG	- JUB#55	MANUFACTURE	ER LENGT	тн со	MAX DKING T	YPE APP		ESIGN		EXHAUS RIS	T PLENUM ER(S)			HOOD CONFIG					UNITS SHALL INCLUDE STAINL COMPONENTS WHEN ASSEMBLED	ESS STEEL HANDLES AND A FASTE).
1	Wok Hood - Left	6024 ND-2	CAPTIVEAIR	E 6′0	т , е	EMP 600 DEG	I HE		275	1650 WIDTH LENG	HEIGHT I 4" 1	0IA CFM .4* 1650	VEL SP 1543 -0.717	, 430 SS	END LEFT FRONT					PARTICLES FIVE MICRONS IN LARGER, WITH A CORRESPOND	SIZE, AND 85% GREASE PARTICLES NG PRESSURE DROP NOT TO EXCEE
2	Fryer Hood - Right	6024 ND-2	CAPTIVEAIR	E 7′0	* e	600 DEG	I HE	IEAVY	200	1400	4* 1	.2″ 1400	1783 -0.826	430 SS WHERE EXPOS	ED RIGHT FRONT					MANUFACTURER APPROVED FOR EFFICIENCY VS. PARTICLE DIAMETER	USE IN SOLID FUEL APPLICATION
HOOD	INFORMATION			FILT	ER(S)				H T	LIGHT(S)				I FI	UTILITY CABINET(S)	FLECTRICAL	SWITCHES	FIRE	ноор	80	3.00
ND	IAG	1	TYPE	QTY HEI	IGHT LE	NGTH	MICRE		QTY	TYPE	GUARD	LOCATION	SIZE	ТҮРЕ	SIZE	MODEL #	QUANTITY	PIPING	WEIGHT	BNCX (%)	250 <u><u><u><u></u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u></u></u>
1	Wok Hood - Left	CAPTRATE	SOLO FILTER	4 2	:0*	16″	85% SEE SPE	FILTER EC	5	RECESSED ROUND	ND						1	YES	363 LBS	© ©	E 200 dott 1.50
2	Fryer Hood - Right	CAPTRATE	SOLO FILTER	5 1	6*	16*	85% SEE SPE	FILTER EC	2	RECESSED ROUND	ND	RIGHT	12"×60"×24	TANK FS	4.0/4.0/4.0	SC-322110MA	1 FAN	YES	783 LBS	18ACTIO	
	OPTIONS TAG						OPTION	N													
1	Wok Hood - Left	FIELD BACKSPLA	WRAPPER 18 SH 80.00"	3.00" HIG HIGH X	H F 168.00	RONT, LE	FT. 430 S	SS VERTI	CAL.											PARTICLE DIAMET	
		SS. FIELD	WRAPPER 18	PANEL	27* T	RONT, RI	н, 21° GHT.	BOTTOM W	/IDTH,	80* HIGH INSUL	ATED 430									NFPA #96. NSF STANDARD #2. UL STANDARD #1046.	IN COMPLETANCE WITTH.
2	Fryer Hood - Righ	RIGHT Q	UARTER END P NSOR INSTALL	PANEL A	23* T[N.	OP WIDTH	, 0″ B	BOTTOM WI	DTH,	23" HIGH 430 SS.										INT. MECH. CIDE (IMC). ULC-S649.	
\$	GREASE D	UCT &	CHIMNE	EY SI	PEC	IFICA	ATION	12:											\square		
	PROVIDE	GREASE	E DUCT	EQU	IAL	TD C	CAPTI	IVEAI	RE	SYSTEMS MI	DDEL "DV	,″D₩″				3'	4 3/16"	\square	> 11"	4 3/16* 4 3/16*	10"
	IS LISTEI	04000 U DT (L-1978	AND	IS	INS.	TALLI	ED U:	SIN	G "V" CLAM	P L D W	CKING					ø14*				ø12" t
	CONNECTION DOES NOT	UNS SE	IALED \ Irf wf	WITH I DINI	3M G PI	FIRI RDVI	e bai Ding	RRIEF	12 241	DOO PLUS, been inst.	MDDE Al I F	L "Dw d pfr	/″					- All			I
	THE MANU	FACTU	RES INS	STALI	LAT	IDN	GUIDE	Ε.								60"	U.L. LIST	ED RECESSE	D ROUND		U.L. LISTED RECESSED ROUND
	PRUVIDE PER MANU	RAIED Factuf	ACCES Res lis	S DLI Stinc	IURS 5 Me	JDEL	EVEI "DW"	RY CH " Hor	han Rize	GE IN DIRE Intal Runs	CTIUN LES:	N AND S THA	EVER AN 75 I	Y 12' UN FT. CAN	n center. Be					••	
	SLOPED 1.	/16″PE	ER 12",			NTAL	RUN	IS MO	RE	THAN 75 F	T. CA	N BE	SLOPE	D 3/16″	PER 12".						
	ACCUMULA	TION I	N HORI	ed a Zont	al ⊪ AL	RUNS	АЗ F S,	PU331	BLE	LIU REDUCI	e i Hi	E UHA	NUL UI	- UREAS)L	2 1/4"	⊨ _			2 1/4" 2 1/4"	
	IF THF DI		о сніми	IFY T	S 1	ЛТНІ	N 18		1E C	DE COMBUS	TIRLI	F MAT	FRIAI	PRUVII	JE		2 1/4*				
	UL-2221 [DR UL-	-103 HT	LIS	TED		BLE	WALL	_ G	REASE DUCT			LE WAL	L CHIM	NEY	-	36*			- 36"	- 42*
	430 STAIN	I CAPTI NLESS	iveaire Inner	- SY: Duct	STE TIN	ms m Isula	UDEL •TED	UW" - WITH	- ć I A I	2R, 2R TYPE 24 Gauge	_ HI, 430 :	3R, I Stain	ur 32" Less e	RUUND JUTER S	20 GAUGE HELL,						
									_								6	′ 0″NDM.∕6′ ∣	0.00″DD. ——		7′ 0″N⊡M./7′ 0.00″⊡D. —
С	APTIVEAIRI	e syst	EMS RE	ECDM	MEN	DS T	HE L	JSE		HV	AC D	ISTR	IBUTIO	N NOTE						- 14′-0.00″ D∨ERALL	LENGTH
	IF LISTED, Xhaust du	PRE-F ICT TO	ABRICA REDUC	ATED E St	RDU ATI	JND (C PR	GREA: ESSU	SE JRE	+	HIGH VELDC	ITY I be e	DIFFU:	SERS E D With	R HVAC	RETURNS	E	LAN VIEW - HO	<u>000 #1</u>	(Wok H	lood – Left) PLA	N VIEW - HOOD #2 (Fryer
I	THE SYS	TEM, M	INIMIZE	INS	TAL	LATI		AND		DF THE	EXH	AUST	HOOD.	PERFOR	ATED	1/2" - 13 TPI	6 0.00 Hood Cor Hanging A	NER ANGLE	6024NL	<u>J-Z</u>	7 U.UU LUNG 6024N FULL LENGTH HANGING ANGLE
	INSPECTIL	in lime LIC	28, ANL Quid ti	J ENS IGHT	SURE	<u>-</u> DOI	L 13	2		DIFF	USER	rs ar	e rece	IMMENDE	D.	GRADE 5 CHINIMUMO STEEL HEX NUTS.			» D	GRADE S (MINIMUM) STEEL HEX NUTS. 1/2' GRADE S (MINIMUM) STEEL	HARDWARE BY INSTALLER>
				<u> </u>												FLAT WASHER.		1	F	FLAT WASHER.	
	VI	ERIFY	CEILIN	G HE	IGF	4T			_	CUSTOMER	R APF	PROV	AL TO	MANUF	ACTURE:	1/2" - 13 TPI GRADE 5 (MINIMUM) STEEL ALL-THREAD. 1/2" - 13 TPI	1			1/2" - 13 TPI GRADE 5 (MINIMUN) STEEL ALL-THREAD.	
			'	_"						APPROVED AS NOTED	ON TAKEN					GRADE 5 CMINIMUMO STEEL HEX NUT.	HDDD CORNER	R ILE		1/2" - 13 TPI GRADE 5 (MINIMUM) STEEL HEX NUT. 1/2" GRADE 5	FULL LENGTH HANGING ANGLE OVERFULT BEORDING
									F	REVISE AND RESUBMIT						FLAT VASHER.	WEIGHT BEA ANCHOR POIN FOR HOOD).			GUNIMUMO STEEL FLAT WASHER.	ANCIOR POINT FOR HODD.
н	EIGHT REQUIRED TO V	ERIFY THAT HO	DOD FITS SPAC	E AND TO	SIZE T	THE ENCLO	SURE PAN	NELS		OUR TITLE		DAT	E				1/2" GRADE S MINIMUMO ST FLAT WASHER	s reel R.			1/2' GRADE 5 MINIMUM: STEEL
																	1/2" - 13 TF GRADE 5 (MI) STEEL HEX N				FLAT WASHER. 1/2" - 13 TPI GRADE 5 (MINIPUM) STEEL HEX NUT.
																	ASSEMBLY INS		<u>INS</u>		EMBLY INSTRUCTIONS
																GRADE 5 (MIN ANGLES AND	LE MUST BE SUPPL IIMUM) ALL-THREA CEILING ANCHOR F	D. SANDW: POINTS W:	ICH 1/2" ICH HANG ITH 1/2"	- 13 TPI HANGING ANGLE M SING GRADE 5 (MINIMUM GRADE 5 ANGLES AND CEIL) ALL-THREAD, SANDWICH HANGIN NG ANCHOR POINTS WITH 1/2" G
																GRADE 5 (MIN DOUBLED HEX	IMUM) HEX NUTS (NUT CONFIGURAT	AS AND 1/ AS SHOWN ION BENE	2" - 13 N. MUST L ATH HOOI	JEI (MINIMUM) STEEL JSE GRADE 5 (MINIMUM D HANGING DOUBLED HEX NUT	LAI WASHERS AND 1/2" - 13 TH > HEX NUTS AS SHOWN, MUST US CONFIGURATION ABOVE CEILING
																ANGLES AND EXPOSED THR ALL HEX NUT	ABUVE CEILING A EADS BENEATH BD S TO 57 FT-LBS.	NCHORS. N ITTOM HE>	MAINTAIN K NUT. TE	1/4" UF ANCHURS. SINGLE DRQUE ACCEPTABLE FOR MAINTAIN 1/4" OF	HEX NUI BENEATH HANGING ANGL FULL LENGTH HANGING ANGLES. EXPOSED THREADS BENEATH BOI
																				HEX NUT. TORQUE	ALL HEX NUTS TO 57 FT-LBS.

FIRE		TYPE		SIZE	FLOW	INSTALLA	ATION		
ND	THO	TIFE		SIZE	PDINTS	SYSTEM	LOCATION ON	HOOD	
1		TANK FS		4.0/4.0/4.0	46	FIRE CABINET RIGHT	RIGHT, HODI) 2	
AS VAL	VE(S	·)							
FIRE SYSTEM ND	TAG	TYPE	SIZE	SUPPLIED BY					
1		SC ELECTRICAL	2.000	CAPTIVEAIRE SYSTEMS	s				
IRE S	YSTE	M PARTS LIST	' KEY						
FIRE SYSTEM ND	TAG			KEY NUMBER - PA	RT DESCRI	PTION		QTY BY FACTORY	QTY DIS
		0 – 0 – TANK F	IRE SUPPR	RESSION POST-DISCHARGE P	RDCEDURE	UTILITY CABINET LABEL	SHEET.	1	0
		0 - 0 - TANK F	IRE SUPPR	RESSION MAINTENANCE GUID	E UTILITY	CABINET LABEL SHEET.		1	0
		0 - 0 - 12-F2802 CLOSE ON TEMP R	21-32144-D RISE AT 36	JT-360 DUCT FIRE THERMOS 50°F.	NTIW TAT2	12 FODT WIRE LEADS. N	10,	2	0
		0 - 0 - 4429K153	3 1/2″ MAL	LE NPT TO 1/2" FEMALE NF	PT ELBO∀,	BRASS.		3	0
		0 - 0 - 4429K42	2 1/2* X	1/4" BRASS REDUCING BUSH	HING.			2	0
			/2* 90 PRI	D-PRESS ELBOW WITH 1/2"	NPT FEMAL	LE CONNECTION, VIEGA.		2	0
		0 - 0 - 79580 1/	2-001 SEC	CONDARY ACTUATOR VALVE	(SVA) - S	SINGLE ACTUATOR, REQUIRE	ES	2	0
		0 - 0 - 87-12004	5-001 HDS	E, SECONDARY ACTUATOR H	HDSE, 7.5"	BRAIDED STAINLESS STEE	L,	2	0
		0 - 0 - 87-3000	1-001 TAN	K - PRESSURIZED TANK US	ED FOR T	ANK FIRE SUPPRESSION		3	0
		0 - 0 - 87-30003 ASSEMBLY, DNF N	30-001 PRI	MARY ACTUATOR KIT (PAK)	- ACTUAT	DR AND RELEASE SOLENDI	D	1	0
		0 - 0 - 87-30015	52-001 HAR	DWARE, SVA BOLTS, TANK	FIRE SUPP	PRESSION		12	0
		0 - 0 - 98694A11 FIRE SUPPRESSID	IS HARDWA	RE, DATANKLOCK LOCKING	BRACKET S	SQUARE NUTS 5/16" ZINC,	TANK	6	0
1		0 - 0 - A0034332	2 JUNCTIO	N BOX FOR MANUAL PULL S	STATION. 1.	5" DEEP BACK BDX, RED C	COLOR.	1	0
		0 - 0 - A31484 1 MPT HALF UNION.	L/4" NPT S USED DN	SCHRADER VALVE AND CAP TANK SERVICE PORT.	, JB INDUS	STRIES. 1/4" FLARE X 1/4"	•	2	0
		0 - 0 - DATANKL IN UTILITY CABIN	DCK DISCH ETS, TANK	ARGE ADAPTER TANK LOCK FIRE SUPPRESSION.	ING PLATE	FOR FIRE SYSTEM TANK	INSTALLATION	3	0
		0 - 0 - SLPCON- CONNECT THE SUF CONTAINS 5 FEET AND TWO 7/8' CO	03FT SUPE PERVISED DF BLACK INNECTORS.	ERVISED LOOP CONNECTION LOOP BETWEEN END TO EN < MG WIRE, 5 FEET OF TAU	KIT. CON D HOODS V N MG WIRE	TAINS THE PARTS NEEDED VITH LESS THAN A 2' GAP , 3 FEET DF FLEXIBLE (TD KIT CONDUIT,	2	0
		0 - 0 - SLPCON- CONNECT THE SUF BACK TO BACK HE 15 FEET DF FLE	15FT SUPE PERVISED I IDDS. KIT I XIBLE CON	RVISED LOOP CONNECTION LOOP BETWEEN END TO EN CONTAINS 17 FEET OF BLA IDUIT, AND TWO 7/8" CONN	KIT. CON D HOODS V CK MG WIR ECTORS.	TAINS THE PARTS NEEDED VITH LESS THAN A 14' GAF E, 17 FEET DF TAN MG W	TO P OR IRE,	1	0
		0 - 0 - TANK ST	RAP TANK	STRAP - USED FOR TANK	FIRE SUPP	RESSION.		9	0
		0 - 0 - TFS-UCT CABINETS, TANK F	ANKBRACKE	ET TANK BRACKET FOR FIR RESSION.	E SYSTEM	TANK INSTALLATION IN UT	TILITY	3	0
		0 - 0 - WK-2839	952-000 DI	SCHARGE ADAPTER, TANK F	IRE SUPPR	ESSIDN.		3	0
		34 - 34 - A0034 WITH PR⊡TECTI∨E	331 24VD0 COVER, 0	C SINGLE ACTION MANUAL 4 ONE (1) NORMALLY OPEN CO	ACTUATION	DEVICE (PUSH/PULL STAT D COLOR.	TION)	1	0
		ADDITIONAL PARTS	S TO BE D	ETERMINED					



CONSULTANTS (ENGINEER):

NY ENGINEER NEARBY ENGINEERS 382 NE 191ST STREET SUITE

49674, MIAMI, FL 33179 PH-914.257.3455 WWW.NY-ENGINEERS.COM

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AS INDICATED SCALE NYE DRAWN BY M600 NYE CHECKED BY 23045 PROJECT #





CONSULTANTS (ENGINEER):





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AS INDICATED SCALE

NYE CHECKED BY 23045 PROJECT ;

NYE DRAWN BY M601







CONSULTANTS (ENGINEER):

NY ENGINEERS NEARBY ENGINEERS 382 NE 191ST STREET SUITE 49674, MIAMI, FL 33179 PH-914.257.3455

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23045 PROJECT





					DUCTWORN	X #1 P4	ARTS -	J08#59	150	42 DOUBLE WALL 1
TAG	PART #	CFM	GPM	ZONE	COVEREDBY	SP	WEIGHT	VELOCITY	ΩΤΥ	DESCRIPTION
P1	DW1445DWASY-2R-S	1650				-0.0385	19.87	1543.48	1	DDUBLE WALL DUCT - 14' INNER 45 DUCT - 2 LAYERS REDUCED CLEARANCE - 18' STAINLESS STEEL DUTER SHELL.
P2	DW1445DWASY-2R-S	1650				-0.055	19.87	1543.48	1	DDUBLE WALL DUCT - 14' INNER 45 DUCT - 2 LAYERS REDUCED CLEARANCE - 18' STAINLESS STEEL DUTER SHELL.
Р3	DW1447DWAJD-2R-S	1650				-0.012	93.18	1543.48	1	DOUBLE WALL ADJUSTABLE DUCT - 14' INNER DUCT - 2 LAYERS REDUCED CLEARANCE - 18' STAINLESS STEEL DUTER SHELL. MIN LENGTH = 11' / MAX LENGTH = 48.5' / ADJUSTMENT = 30.5' / ADJUSTABLE SECTION MAY NEED TO BE CUT. INCLUDES SINGLE AND DOUBLE WALL 'V' CLAMPS.
P4 ASSEMBLED W/P5	DW144550DWLTTP-2R-S	1650				-0.016	61.01	1543.48	1	DOUBLE WALL DUCT - 14" INNER DUCT, 45.5" LONG - 2 LAYERS REDUCED CLEARANCE - 18" STAINLESS STEEL DUTER SHELL - USED WITH TRANSITION PLATE.
P5 ASSEMBLED W/P4	DW2314TPDBEX	1650					8.00	1543.48	1	DUCT TO CURB TRANSITION 3/4' DOWN TURN, 23' CURB TO 14' DUCT, 16 GA ALUMINIZED. USED ON NCA14FA & NCA14HPFA. TRANSITION PLATE OD IS 23.5' DESIGNED FOR USE WITH EXHAUST FAN. NON-STANDARD PART.
SYSTEM AT P5						-0.8385	0.00			
P6	DW1245DWASY-2R-S	1400				-0.0525	16.53	1782.54	1	DDUBLE WALL DUCT - 12' INNER 45 DUCT - 2 LAYERS REDUCED CLEARANCE - 16' STAINLESS STEEL DUTER SHELL.
P7	DW1245DWASY-2R-S	1400				-0.075	16.53	1782.54	1	DDUBLE WALL DUCT - 12' INNER 45 DUCT - 2 LAYERS REDUCED CLEARANCE - 16' STAINLESS STEEL DUTER SHELL.
P8	DW1247DWAJD-2R-S	1400				-0.02	83.19	1782.54	1	DOUBLE WALL ADJUSTABLE DUCT - 12' INNER DUCT - 2 LAYERS REDUCED CLEARANCE - 16' STAINLESS STEEL DUTER SHELL. MIN LENGTH = 11' / MAX LENGTH = $48.5'$ / ADJUSTMENT = $30.5'$ / ADJUSTABLE SECTION MAY NEED TO BE CUT. INCLUDES SINGLE AND DOUBLE WALL 'V' CLAMPS.
P9 ASSEMBLED W/P10	DW124550DWLTTP-2R-S	1400				-0.025	53.52	1782.54	1	DOUBLE WALL DUCT - 12' INNER DUCT, 45.5' LONG - 2 LAYERS REDUCED CLEARANCE - 16' STAINLESS STEEL DUTER SHELL - USED WITH TRANSITION PLATE.
P10 ASSEMBLED W/P9	DW2312TPDBEX	1400					8.00	1782.54	1	DUCT TO CURB TRANSITION 3/4" DOWN TURN, 23" CURB TO 12" DUCT, 16 GA ALUMINIZED. USED ON NCA14FA & NCA14HPFA. TRANSITION PLATE OD IS 23.5" DESIGNED FOR USE WITH EXHAUST FAN. NON-STANDARD PART.
SYSTEM AT P10						-0.9985	0.00			
	3M-2000PLUS						0.80		3	DUCT - 3M FIRE BARRIER 2000 PLUS SILICONE - USED AS SEALANT TO SEAL DUCT JOINTS.
	DW12DWCLASY-2R-S						6.44		1	DUCT - 12' DUCT - 16' DDUBLE 'V' CLAMP - 2R INSULATION & SINGLE 'V' CLAMP INCLUDED - REDUCED CLEARANCE.
	DW14DWCLASY-2R-S						7.21		1	DUCT - 14' DUCT - 18' DUUBLE 'V' CLAMP - 2R INSULATION & SINGLE 'V' CLAMP INCLUDED - REDUCED CLEARANCE.
TOTAL VEICHT							205 75			

DOUBLE WALL FACTORY BUILT DUCTWORK

- ALL DUCTWORK IS REQUIRED TO BE INSTALLED WITH THE MAXIMUM SUPPORT SPACING LISTED BELOW.

- FOR A COMPLETE LIST OF APPROVED SUPPORT METHODS, SEE THE ENTIRE INSTALLATION AND OPERATION MANUAL - DUCTWORK SHALL SLOPE NOT LESS THAN 1/16' PER LINEAR FOOT TOWARDS THE HODD OR AN APPROVED GREASE COLLECTION RESERVOIR.

- WHERE HORIZONTAL DUCTS EXCEED 75 FEET IN LENGTH, THE SLOPE SHALL NOT BE LESS THAN 3/16" PER LINEAR FOOT.

HDR	IZDNTAL
DUCT DIAMETER	SUPPORT SPACING (FT)
5*	7'
6"	7'
7*	7'
8"	7'
10*	7'
12'	7′
14'	7'
16'	7'
18'	5′
20"	5′
22*	5'
24*	5′
26*	5′
28″	5'
30″	5'
32″	5'
34″	5′
36″	5'

	VERT	ICAL	
TYPE	WALL SUPPORT (FT)	CURB SUPPORT (FT)	FLOOR SUPPORT (FT)
2R & 2R HT (5"-16")	50,	24'	24'
2R (18")	18′	24'	24'
3R & 3Z (5"-24")	10′	24'	24'
3Z (26" -36")	10'	20'	20'
•			

DO NOT LEAK TEST USING SMOKE BOMBS CONTAINING CHLORINES/CHLORIDES. CONSULT WITH CAPTIVEAIRE FOR PROPER LEAK TESTING METHODS. CONSULTANTS (ENGINEER):

NY ENGINEERS NEARBY ENGINEERS

382 NE 191ST STREET SUITE 49674, MIAMI, FL 33179 PH-914.257.3455 WWW.NY-ENGINEERS.COM

	1	1
∕∆	ISSUE FOR PERMIT	03/31/23
N0.	DESCRIPTION	DATE
	REVISIONS	

ALL FIELD CONDITIONS AND DIMENSIONS ARE TO BE FIELD VERIFIED PRIOR TO COMMENCEMENT OF THE WORK. ALL DISCREPANCIES ARE TO BE BROUGHT TO THE ATTENTION OF THE ARCHITECT BEFORE PROCEEDING WITH THE WORK THESE DRAWINGS ARE THE PROPERTY OF JOHN WILLIAM LISTER ARCHITECT. THEY ARE NOT TO BE REPRODUCED IN PART OR IN WHOLE WITHOUT THE CONSENT OF JOHN WILLIAM LISTER ARCHITECT. THEY ARE TO BE USED ON THE PROJECT NOTED HEREON ONLY.



03/31/23 DATE AS INDICATED SCALE NYE DRAWN BY NYE CHECKED BY 23045 PROJECT #



SYSTEM DESIGN VERIFICATION (SDV)

IF ORDERED, CAS SERVICE WILL PERFORM A SYSTEM DESIGN VERIFICATION (SDV) DNCE ALL EQUIPMENT HAS HAD A COMPLETE START UP PER THE OPERATION AND INSTALLATION MANUAL. TYPICALLY, THE SDV WILL BE PERFORMED AFTER ALL INSPECTIONS ARE COMPLETE. ANY FIELD RELATED DISCREPANCIES THAT ARE DISCOVERED DURING THE SDV WILL BE BROUGHT TO THE ATTENTION OF THE GENERAL CONTRACTOR AND CORRESPONDING TRADES ON SITE. THESE ISSUES WILL BE DOCUMENTED AND FORWARDED TO THE APPROPRIATE SALES OFFICE. IF CAS SERVICE HAS TO RESOLVE A DISCREPANCY THAT IS A FIELD ISSUE, THE GENERAL CONTRACTOR WILL BE NOTIFIED AND BILLED FOR THE WORK. SHOULD A RETURN TRIP BE REQUIRED DUE TO ANY FIELD RELATED DISCREPANCY THAT CANNOT BE RESOLVED DURING THE SDV, THERE WILL BE ADDITIONAL TRIP CHARGES.

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DURING THE SDV, CAS SERVICE WILL ADDRESS ANY DISCREPANCY THAT IS THE FAULT OF THE MANUFACTURER. SHOULD A RETURN TRIP BE REQUIRED, THE GENERAL CONTRACTOR AND APPROPRIATE SALES OFFICE WILL BE NOTIFIED. THERE WILL BE NO ADDITIONAL CHARGES FOR MANUFACTURER DISCREPANCIES.



CONSULTANTS (ENGINEER):

NY ENGINEERS NEARBY ENGINEERS 382 NE 191ST STREET SUITE 49674, MIAMI, FL 33179 PH-914.257.3455 WWW.NY-ENGINEERS.COM





						1_600	BOH	3 1/2"0		-				
PANEL BOARD CONSTRUCTION · CIRCUIT BREAK	w					4-600				-				
AMP MAIN LUGS					RE	CESSED		MOUNTIN	G	-				
400A AMP MAIN BREAKER/SWITCH										-				4-
42 AVAILBLE CIRCUIT SPACES										1				
		PER PHASE (VA)	CIR	CUIT	WI	RE SIZE	CI	RCUIT		PER	PHASE (VA)		СКТ
CKT NO. DESCRIPTION OF LOAD	A	В	С	POLE	AMP			POLE	AMP	А	В	С	DESCRIPTION OF LOAD	NO.
1 52_ICE MACHINE	1323.00			1	20	12	12	1	20	200.00			WH-1 & WH-2	2
3 26.1_BLENDER		1323.00		1	20	12	12	1	20		600.00		DATA RACK	4
5 06_SANDWICH PREP			403.00	1	20	12	12	1	20			1260.00	RECEPTACLES	6
7 RECEPTACLES	1080.00			1	20	12	12	1	20	900.00			RECEPTACLES (114")	
	\sim	403.00	<u> </u>	1	20	12	12	1	20		403.00			
			600.00		20	12	6	2	60	7124.92				
		6729.01		3	60	6	-	-		7124.03	7124.83			
17 -		0723.01	6729.01	-	-	-	_	_			, 12 1.00	7124.83	_	
19 -	6729.01			-	-	-	12	1	20	180.00			ROOF TOP W/P RECEPTACLES	20
21 ROOF TOP W/P RECEPTACLES		180.00		1	20	12	1						SPARE	22
23 EF-1			1024.00	1	20	12							SPARE	24
25 EF-2	1024.00			1	20	12	12	2	20	1560.00			WALK-IN CONDENSING UNIT	26
27 WALK-IN COOLER EVAPORATOR		2250.00		2	20	12	-	-	-		1560.00		-	28
29 -			2250.00	-	-	-	12	1	20			100.00	EF-3,EF-4	30
31 11.2 RICE WARMER	200.00						12	1	20	100.00			BCP-1	32 $\sqrt{3}$
33 04_FRYER		100.00				_					345.00		3.1_REFRIGERATED EQUIPMENT STAND	34
35 SHUNT TRIP				1	20	12								
	11.36	11.00		3	125	1	12	1	20	100.00			TIMECLOCK	
39 TO PANEL B		11.36	11.20	-	-	-							SPARE	40 RISER DIAGRAM GENERAL NOT
	10267.27	10996 37	11.30	-	-	-				10164 93	10022.82	8484.83		
	Δ	B	11017.37 C							10104.05	10052.85	0404.03		RATING WITH UTILITY COMPANY AND AHJ
TOTAL PHASE VA	20532.20	21029.20	19502.20	_								69.15	CONNECTED AMPS (BALANCED)	AIC REQUIRED PRIOR TO BID.
				_										2. E.C. TO VERIFY EXACT POWER DISTRIBUT
TOTAL PHASE AMP	171.10	175.24	162.52										PHASE DEMAND AMPS (BALANCED)	SCOPE OF WORK WITH OWNER/LANDLOR
														3. ELECTRICAL PANEL SHALL BE SHUNT TR
TOTAL CONNECTED KVA		61.06											TOTAL DEMAND KVA	AND SHALL BE CONNECTED TO THE SHU
PANEL BOARD DESIGNATION . B							DOL							
			OCATION :				БОЛ							
ELECTRICAL CHARACTERISTICS : 120/208v-3ph-	w	LC	DCATION : EEDER SIZE :			4-1	+ 1#6. 1 1/4	"C.						RISER DIAGRAM KEYED WO
ELECTRICAL CHARACTERISTICS : 120/208v-3ph-	w ER	LC FE	DCATION : EEDER SIZE : ED FROM :			4-1	+ 1#6, 1 1/4 PANEL "A"	"C.						RISER DIAGRAM KEYED WO
ELECTRICAL CHARACTERISTICS : 120/208v-3ph- PANEL BOARD CONSTRUCTION : CIRCUIT BREAK 125 AMP MAIN LUGS	ER	LC FE FE	DCATION : EEDER SIZE : ED FROM :		RECE	4-1 SSED	+ 1#6, 1 1/4 PANEL "A" M	"C. OUNTING						RISER DIAGRAM KEYED WO
ELECTRICAL CHARACTERISTICS : 120/208v-3ph- PANEL BOARD CONSTRUCTION : CIRCUIT BREAK 125 AMP MAIN LUGS AMP MAIN BREAKER/SWITCH	ER	LC FE FE	DCATION : EEDER SIZE : ED FROM :		RECE	4-1 SSED	+ 1#6, 1 1/4 PANEL "A" M	"C. OUNTING						A. NEW 400A, 120V/208V 3PHASE 4W SER
ELECTRICAL CHARACTERISTICS : 120/208v-3ph- PANEL BOARD CONSTRUCTION : CIRCUIT BREAK 125 AMP MAIN LUGS AMP MAIN BREAKER/SWITCH 42 AVAILBLE CIRCUIT SPACES	ER	FE	DCATION : EEDER SIZE : ED FROM :		RECE	4-1 SSED	+ 1#6, 1 1/4 PANEL "A" M	"C. OUNTING						A. NEW 400A, 120V/208V 3PHASE 4W SER BY LANDLORD. E.C. TO CO-ORDINATE WI MORE DETAILS. E.C. TO VERIFY SCOPE C
ELECTRICAL CHARACTERISTICS : 120/208v-3ph- PANEL BOARD CONSTRUCTION : CIRCUIT BREAK 125 AMP MAIN LUGS AMP MAIN BREAKER/SWITCH 42 AVAILBLE CIRCUIT SPACES	ER	LC FE FE	DCATION : EEDER SIZE : ED FROM :		RECE	4-1 SSED	+ 1#6, 1 1/4 PANEL "A" M	"C. OUNTING						A. NEW 400A, 120V/208V 3PHASE 4W SER BY LANDLORD. E.C. TO CO-ORDINATE WI MORE DETAILS. E.C. TO VERIFY SCOPE O LANDLORD/OWNER PRIOR TO BID.
ELECTRICAL CHARACTERISTICS : 120/208v-3ph- PANEL BOARD CONSTRUCTION : CIRCUIT BREAK 125 AMP MAIN LUGS AMP MAIN BREAKER/SWITCH 42 DESCRIPTION OF LOAD	ER	PER PHASE (V	DCATION : EEDER SIZE : ED FROM : /A)	CIRCU	RECE	4-1 SSED	+ 1#6, 1 1/4 PANEL "A" M	"C. OUNTING CIRC			PER PH	ASE (VA)		 RISER DIAGRAM KEYED WO A. NEW 400A, 120V/208V 3PHASE 4W SER BY LANDLORD. E.C. TO CO-ORDINATE WI MORE DETAILS. E.C. TO VERIFY SCOPE O LANDLORD/OWNER PRIOR TO BID. CKT B. NEW 400A, 120V/208V 3 PH CT CABINE
ELECTRICAL CHARACTERISTICS : 120/208v-3ph- PANEL BOARD CONSTRUCTION : CIRCUIT BREAK 125 AMP MAIN LUGS AMP MAIN BREAKER/SWITCH 42 AVAILBLE CIRCUIT SPACES CKT NO.	ER	LC FE FE PER PHASE (V B	DCATION : EEDER SIZE : ED FROM : /A) C	CIRCU	RECE JIT AMP	4-1 SSED	+ 1#6, 1 1/4 PANEL "A" M	"C. OUNTING CIRC POLE	CUIT	A	PER PH	ASE (VA) C	DESCRIPTION OF LOAD	 RISER DIAGRAM KEYED WO A. NEW 400A, 120V/208V 3PHASE 4W SER BY LANDLORD. E.C. TO CO-ORDINATE WI MORE DETAILS. E.C. TO VERIFY SCOPE O LANDLORD/OWNER PRIOR TO BID. CKT NO. B. NEW 400A, 120V/208V 3 PH CT CABINE DISCONNECT SWITCH. E.C. TO CO-ORDIN
	ER	LC FE FE PER PHASE (V B	DCATION : EDER SIZE : ED FROM : (A) C	CIRCU POLE 1	RECE JIT AMP 20	4-1 SSED	+ 1#6, 1 1/4 PANEL "A" M SIZE	"C. OUNTING CIRC POLE 1	CUIT AMP 20	A 240.00	PER PH	ASE (VA) C	DESCRIPTION OF LOAD	 RISER DIAGRAM KEYED WO A. NEW 400A, 120V/208V 3PHASE 4W SER BY LANDLORD. E.C. TO CO-ORDINATE WI MORE DETAILS. E.C. TO VERIFY SCOPE O LANDLORD/OWNER PRIOR TO BID. CKT NO. 2
	ER A A 180.00	LC FE FE PER PHASE (V B 900.00	DCATION : EEDER SIZE : ED FROM : /A) C	CIRCU POLE 1 1	RECE JIT AMP 20 20	4-1 SSED	+ 1#6, 1 1/4 PANEL "A" M SIZE 12 8	"C. OUNTING CIRC POLE 1 1	CUIT AMP 20 40	A 240.00	PER P⊢ B 3000.00	ASE (VA) C	DESCRIPTION OF LOAD LIGHTS WH-3	 RISER DIAGRAM KEYED WO A. NEW 400A, 120V/208V 3PHASE 4W SER BY LANDLORD. E.C. TO CO-ORDINATE WI MORE DETAILS. E.C. TO VERIFY SCOPE O LANDLORD/OWNER PRIOR TO BID. B. NEW 400A, 120V/208V 3 PH CT CABINE DISCONNECT SWITCH. E.C. TO CO-ORDIN COMPANY FOR EXACT LOCATION. C. NEW 400A, 120V/208V 3 PH, 4W, ELEC COMPANY FOR EXACT LOCATION.
ELECTRICAL CHARACTERISTICS : 120/208v-3ph- PANEL BOARD CONSTRUCTION : CIRCUIT BREAK 125 AMP MAIN LUGS AMP MAIN BREAKER/SWITCH 42 AVAILBLE CIRCUIT SPACES CKT NO. DESCRIPTION OF LOAD 1 PANEL RECEPTACLES 3 TOILET LIGHTS, RECEPTACLES 5 WH-4	A 180.00	LC FE FE FE PER PHASE (V B 900.00	DCATION : EDER SIZE : ED FROM : /A) C 3000.00	CIRCU POLE 1 1 1	RECE JIT AMP 20 20 40	4-1 SSED WIRE 12 12 8 12 12 12 12 12 12 12 12 12 12 12 12 12	+ 1#6, 1 1/4 PANEL "A" M SIZE 12 8 12	"C. OUNTING CIRC POLE 1 1 1	CUIT AMP 20 40 20	A 240.00	PER PH B 3000.00	ASE (VA) C 160.00	DESCRIPTION OF LOAD LIGHTS WH-3 LIGHTS	 RISER DIAGRAM KEYED WO A. NEW 400A, 120V/208V 3PHASE 4W SER BY LANDLORD. E.C. TO CO-ORDINATE WI MORE DETAILS. E.C. TO VERIFY SCOPE O LANDLORD/OWNER PRIOR TO BID. B. NEW 400A, 120V/208V 3 PH CT CABINE DISCONNECT SWITCH. E.C. TO CO-ORDIN COMPANY FOR EXACT LOCATION. C. NEW 400A, 120V/208V 3 PH, 4W, ELEC CO-ORDINATE EXACT LOCATION OF PANE
ELECTRICAL CHARACTERISTICS : 120/208v-3ph- PANEL BOARD CONSTRUCTION : CIRCUIT BREAK 125 AMP MAIN LUGS AMP MAIN BREAKER/SWITCH 42 AVAILBLE CIRCUIT SPACES CKT NO. DESCRIPTION OF LOAD 1 PANEL RECEPTACLES 3 TOILET LIGHTS, RECEPTACLES 5 WH-4 7 41_BACK BAR REFRIGERATOR O	A A 180.00 384.00	LC FE FE PER PHASE (V B 900.00	DCATION : EDER SIZE : ED FROM : /A) C 3000.00	CIRCU POLE 1 1 1 1 1	RECE JIT AMP 20 20 40 20 20	4-1 SSED U U U U U U U U U U U U U U U U U U U	+ 1#6, 1 1/4 PANEL "A" M SIZE 12 8 12 12 12 12	"C. OUNTING CIRC POLE 1 1 1 1 1	CUIT AMP 20 40 20 20 20	A 240.00 1080.00	PER PH B 3000.00	ASE (VA) C 160.00	DESCRIPTION OF LOAD LIGHTS WH-3 LIGHTS RECEPTACLES	 RISER DIAGRAM KEYED WO A. NEW 400A, 120V/208V 3PHASE 4W SER BY LANDLORD. E.C. TO CO-ORDINATE WI MORE DETAILS. E.C. TO VERIFY SCOPE OF LANDLORD/OWNER PRIOR TO BID. B. NEW 400A, 120V/208V 3 PH CT CABINE DISCONNECT SWITCH. E.C. TO CO-ORDIN COMPANY FOR EXACT LOCATION. C. NEW 400A, 120V/208V 3 PH, 4W, ELEC CO-ORDINATE EXACT LOCATION OF PANE D. NEW 125A, 120V/208V 3 PH, 4W, ELEC CO-ORDINATE EXACT LOCATION OF PANE
	A A A 180.00 384.00	LC FE FE FE PER PHASE (V B 900.00 1 900.00 1 1 200.00 1	DCATION : EEDER SIZE : ED FROM : (A) C 3000.00	CIRCU POLE 1 1 1 1 1 1 1	RECE JIT AMP 20 20 40 20 20 20 20 20	4-1 SSED UIRE UIRE 12 12 8 12 12 12 12 12 12 12 12 12 12 12 12 12	+ 1#6, 1 1/4 PANEL "A" M SIZE 12 8 12 12 12 12 12 12	"C. OUNTING CIRC POLE 1 1 1 1 1 1	CUIT AMP 20 40 20 20 20 20	A 240.00 1080.00	PER PH B 3000.00 1 384.00 1	ASE (VA) C 160.00	DESCRIPTION OF LOAD LIGHTS WH-3 LIGHTS LIGHTS RECEPTACLES 41_BACK BAR REFRIGERATOR	 RISER DIAGRAM KEYED WO A. NEW 400A, 120V/208V 3PHASE 4W SER BY LANDLORD. E.C. TO CO-ORDINATE WI MORE DETAILS. E.C. TO VERIFY SCOPE OF LANDLORD/OWNER PRIOR TO BID. B. NEW 400A, 120V/208V 3 PH CT CABINE DISCONNECT SWITCH. E.C. TO CO-ORDIN COMPANY FOR EXACT LOCATION. C. NEW 400A, 120V/208V 3 PH, 4W, ELEC CO-ORDINATE EXACT LOCATION OF PANE D. NEW 125A, 120V/208V 3 PH, 4W, ELEC CO-ORDINATE EXACT LOCATION OF PANE
ELECTRICAL CHARACTERISTICS : 120/208v-3ph- PANEL BOARD CONSTRUCTION : CIRCUIT BREAK 125 AMP MAIN LUGS AMP MAIN BREAKER/SWITCH 42 AVAILBLE CIRCUIT SPACES CKT NO. DESCRIPTION OF LOAD 1 PANEL RECEPTACLES 3 TOILET LIGHTS, RECEPTACLES 5 WH-4 7 41_BACK BAR REFRIGERATOR 9 BUBBLE NEON SIGN 11 47_BLENDER 13 44 HOT WATER DISPENSER	A 180.00	LC FE FE FE FE PER PHASE (V 900.00 1 900.00 1 1 200.00 1	DCATION : EDER SIZE : ED FROM : (A) C 3000.00	CIRCU POLE 1 1 1 1 1 1 1 1 1 1 1	RECE JIT AMP 20 20 20 20 20 20 20 20 20 20 20 20	4-1 SSED SSED WIRE 12 12 8 12 12 12 12 12 12 12	+ 1#6, 1 1/4 PANEL "A" M SIZE 12 12 12 12 12 12 12 12 12 12	"C. OUNTING CIRC POLE 1 1 1 1 1 1 1 1 1 1	CUIT AMP 20 40 20 20 20 20 20 20 20 20 20 20 20	A 240.00 1080.00	PER PH B 4 3000.00 4 384.00 4	ASE (VA) C 160.00 1680.00	DESCRIPTION OF LOAD LIGHTS WH-3 LIGHTS UIGHTS RECEPTACLES 41_BACK BAR REFRIGERATOR 45_TEA BREWER CONVINENCE/KDS RECEPTACLE	 RISER DIAGRAM KEYED WO A. NEW 400A, 120V/208V 3PHASE 4W SER BY LANDLORD. E.C. TO CO-ORDINATE WI MORE DETAILS. E.C. TO VERIFY SCOPE OF LANDLORD/OWNER PRIOR TO BID. B. NEW 400A, 120V/208V 3 PH CT CABINE DISCONNECT SWITCH. E.C. TO CO-ORDIN COMPANY FOR EXACT LOCATION. C. NEW 400A, 120V/208V 3 PH, 4W, ELEC CO-ORDINATE EXACT LOCATION OF PANE D. NEW 125A, 120V/208V 3 PH, 4W, ELEC CO-ORDINATE EXACT LOCATION OF PANE E. THE METER AND DISCONNECT SHALL BE TOULT TOOFTUED AND AT ONE FUEL OF
	A A 180.00 384.00 1800.00	LC FE FE FE PER PHASE (V B 900.00 900.00 1 200.00 1 200.00	DCATION : EDER SIZE : ED FROM : /A) C 3000.00 1800.00	CIRCU POLE 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	RECE JIT AMP 20 20 20 20 20 20 20 20 20 20 20 20 20	4-1 SSED SSED WIRE U I I I I I I I I I I I I I I I I I I	+ 1#6, 1 1/4 PANEL "A" M SIZE 12 12 12 12 12 12 12 12 12 12 12 12 12	"C. OUNTING CIRC POLE 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	CUIT AMP 20 40 20 20 20 20 20 20 20 20 20 20 20 20 20	A 240.00 1080.00 360.00	PER PH B 3000.00 384.00 120.00	ASE (VA) C 160.00 1680.00	DESCRIPTION OF LOAD LIGHTS WH-3 LIGHTS WH-3 LIGHTS RECEPTACLES 41_BACK BAR REFRIGERATOR 45_TEA BREWER CONVINENCE/KDS RECEPTACLE 48_CUP SEALER	C RISER DIAGRAM KEYED WO A. NEW 400A, 120V/208V 3PHASE 4W SER BY LANDLORD. E.C. TO CO-ORDINATE WI MORE DETAILS. E.C. TO VERIFY SCOPE OF LANDLORD/OWNER PRIOR TO BID. CKT NO. B. NEW 400A, 120V/208V 3 PH CT CABINE DISCONNECT SWITCH. E.C. TO CO-ORDIN COMPANY FOR EXACT LOCATION. 2 C. NEW 400A, 120V/208V 3 PH, 4W, ELEC CO-ORDINATE EXACT LOCATION OF PANE 8 D. NEW 125A, 120V/208V 3 PH, 4W, ELEC CO-ORDINATE EXACT LOCATION OF PANE 10 10 12 E. THE METER AND DISCONNECT SHALL BE TIGHT TOGETHER AND AT ONE END OF T CLOSE TO EXISTING EQUIPMENT AS POST
ELECTRICAL CHARACTERISTICS : 120/208v-3ph- PANEL BOARD CONSTRUCTION : CIRCUIT BREAK 125 AMP MAIN LUGS AMP MAIN BREAKER/SWITCH 42 AVAILBLE CIRCUIT SPACES CKT NO. DESCRIPTION OF LOAD 1 PANEL RECEPTACLES 3 TOILET LIGHTS, RECEPTACLES 5 WH-4 7 41_BACK BAR REFRIGERATOR 9 BUBBLE NEON SIGN 11 47_BLENDER 13 44_HOT WATER DISPENSER 15 46_DROP-IN REFRIGERATED WELL 17 RECEPTACLE	ER A A 180.00 384.00 1800.00	LC FE FE FE PER PHASE (V B 900.00 1 900.00 1 2 0 2 0 2 0 2 0 2 0 1 1 1 1 1 1 1 1	DCATION : EDER SIZE : ED FROM : /A) C 3000.00 1800.00	CIRCU POLE 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	RECE JIT AMP 20 20 20 20 20 20 20 20 20 20 20 20 20	4-1 SSED SSED WIRE 12 12 12 12 12 12 12 12 12 1	+ 1#6, 1 1/4 PANEL "A" M SIZE 12 12 12 12 12 12 12 12 12 12 12 12 12	"C. OUNTING CIRC POLE 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	CUIT AMP 20 40 20 20 20 20 20 20 20 20 20 20 20 20 20	A 240.00 1080.00 360.00	PER PH B 3000.00 3384.00 120.00	ASE (VA) C 160.00 1680.00 280.00	DESCRIPTION OF LOAD LIGHTS WH-3 LIGHTS UH-3 LIGHTS RECEPTACLES 41_BACK BAR REFRIGERATOR 45_TEA BREWER CONVINENCE/KDS RECEPTACLE 48_CUP SEALER LIGHTS	 RISER DIAGRAM KEYED WO A. NEW 400A, 120V/208V 3PHASE 4W SER BY LANDLORD. E.C. TO CO-ORDINATE WI MORE DETAILS. E.C. TO VERIFY SCOPE OF LANDLORD/OWNER PRIOR TO BID. B. NEW 400A, 120V/208V 3 PH CT CABINE DISCONNECT SWITCH. E.C. TO CO-ORDIN COMPANY FOR EXACT LOCATION. B. NEW 400A, 120V/208V 3 PH, 4W, ELEC CO-ORDINATE EXACT LOCATION OF PANE C. NEW 400A, 120V/208V 3 PH, 4W, ELEC CO-ORDINATE EXACT LOCATION OF PANE D. NEW 125A, 120V/208V 3 PH, 4W, ELEC CO-ORDINATE EXACT LOCATION OF PANE E. THE METER AND DISCONNECT SHALL BE TIGHT TOGETHER AND AT ONE END OF T CLOSE TO EXISTING EQUIPMENT AS POST AREA AS POSSIBLE FOR FUTURE TENANT
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ELECTRICAL CHARACTERISTICS : 120/208v-3ph- PANEL BOARD CONSTRUCTION : CIRCUIT BREAK 125 AMP MAIN LUGS AMP MAIN BREAKER/SWITCH AMP MAIN BREAKER/SWITCH 42 AVAILBLE CIRCUIT SPACES CKT NO. DESCRIPTION OF LOAD 1 PANEL RECEPTACLES 3 TOILET LIGHTS, RECEPTACLES 5 WH-4 7 41_BACK BAR REFRIGERATOR 9 BUBBLE NEON SIGN 11 47_BLENDER 13 44_HOT WATER DISPENSER 15 46_DROP-IN REFRIGERATED WELL 17 RECEPTACLES 19 LIGHTS 21 OUTDOOR SIGN 23 POS RECEPTACLES 25 WALK-IN COOLER 25 WALK-IN COOLER 27 LIGHTS 29 LIGHTS	Image: Second state sta	LC FE FE FE PER PHASE V B 900.00 100000000	DCATION : EDER SIZE : ED FROM : (A) C 3000.00 3000.00 900.00 900.00	CIRCU POLE 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	RECE JIT AMP 20 20 20 20 20 20 20 20 20 20 20 20 20	4-1 SSED SSED WIRE 12 12 12 12 12 12 12 12 12 12 12 12 12	+ 1#6, 1 1/4 PANEL "A" M SIZE 12 12 12 12 12 12 12 12 12 12 12 12 12	"C. OUNTING OUNTING CIRC POLE 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	LUIT AMP 20 40 20 20 20 20 20 20 20 20 20 20 20 20 20	A 240.00 1080.00 360.00 360.00	PER PH B 3000.00 3384.00 120.00 200.00 1380.00	ASE (VA) C 160.00 1680.00 280.00 345.00 345.00	DESCRIPTION OF LOAD LIGHTS WH-3 LIGHTS WH-3 LIGHTS RECEPTACLES 41_BACK BAR REFRIGERATOR 45_TEA BREWER CONVINENCE/KDS RECEPTACLE 48_CUP SEALER LIGHTS RECEPTACLES MENU BOARD MONITORS LIGHTS 25_VEGETABLE PREP MACHINE 26_U.C. FRIDGE	 RISER DIAGRAM KEYED WO A. NEW 400A, 120V/208V 3PHASE 4W SER BY LANDLORD. E.C. TO CO-ORDINATE WI MORE DETAILS. E.C. TO VERIFY SCOPE O LANDLORD/OWNER PRIOR TO BID. B. NEW 400A, 120V/208V 3 PH CT CABINE DISCONNECT SWITCH. E.C. TO CO-ORDIN COMPANY FOR EXACT LOCATION. C. NEW 400A, 120V/208V 3 PH, 4W, ELEC CO-ORDINATE EXACT LOCATION OF PANE B. NEW 400A, 120V/208V 3 PH, 4W, ELEC CO-ORDINATE EXACT LOCATION OF PANE D. NEW 125A, 120V/208V 3 PH, 4W, ELEC CO-ORDINATE EXACT LOCATION OF PANE E. THE METER AND DISCONNECT SHALL BE TIGHT TOGETHER AND AT ONE END OF CLOSE TO EXISTING EQUIPMENT AS POSS AREA AS POSSIBLE FOR FUTURE TENANI THE TENANT SHALL INDICATE THE PROPO WALL FOR THE PROPERTY MANAGER TO ROOM IS TAKEN UP ANY REWORK WILL EXPENSE.
Image: Construction Image: Construction PANEL BOARD CONSTRUCTION : CIRCUIT BREAK 125 AMP MAIN LUGS AMP MAIN BREAKER/SWITCH AMP MAIN BREAKER/SWITCH 42 AVAILBLE CIRCUIT SPACES CKT NO. DESCRIPTION OF LOAD 1 PANEL RECEPTACLES 3 TOILET LIGHTS, RECEPTACLES 5 WH-4 7 41_BACK BAR REFRIGERATOR 9 BUBBLE NEON SIGN 11 47_BLENDER 13 44_HOT WATER DISPENSER 15 46_DROP-IN REFRIGERATED WELL 17 RECEPTACLE 19 LIGHTS 21 OUTDOOR SIGN 23 POS RECEPTACLES 25 WALK-IN COOLER 27 LIGHTS 29 LIGHTS 21 OUTDOOR SIGN 23 POS RECEPTACLES 29 LIGHTS 29 LIGHTS 29 LIGHTS 29 LIGHTS 29 LIGHTS	Image: Second state sta	LC FE FE FE PER PHASE V B 900.00 10 900.00 10 10 10 10 10 10 10 10 10 10 10 10 1	DCATION : EDER SIZE : ED FROM : (A) C 3000.00 3000.00 3000.00 900.00 900.00	CIRCU POLE 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	RECE JIT AMP 20 20 20 20 20 20 20 20 20 20 20 20 20	4-1 SSED SSED WIRE 12 12 12 12 12 12 12 12 12 12 12 12 12	+ 1#6, 1 1/4 PANEL "A" M SIZE 12 12 12 12 12 12 12 12 12 12 12 12 12	"C. OUNTING POLE 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	CUIT AMP 20 40 20 20 20 20 20 20 20 20 20 20 20 20 20	A 240.00 1080.00 360.00 360.00 286.00	PER PF B I 3000.00 I 33000.00 I 3384.00 I 120.00 I 120.00 I 1380.00 I 1380.00 I	ASE (VA) C 160.00 1680.00 280.00 345.00 345.00	DESCRIPTION OF LOAD LIGHTS WH-3 LIGHTS UH-3 LIGHTS RECEPTACLES 41_BACK BAR REFRIGERATOR 45_TEA BREWER CONVINENCE/KDS RECEPTACLE CONVINENCE/KDS RECEPTACLE 48_CUP SEALER LIGHTS RECEPTACLES OPEN SIGN MENU BOARD MONITORS LIGHTS 25_VEGETABLE PREP MACHINE 26_U.C. FRIDGE 11.2_RICE WARMER	 RISER DIAGRAM KEYED WO A. NEW 400A, 120V/208V 3PHASE 4W SER BY LANDLORD. E.C. TO CO-ORDINATE WI MORE DETAILS. E.C. TO VERIFY SCOPE O LANDLORD/OWNER PRIOR TO BID. B. NEW 400A, 120V/208V 3 PH CT CABINE DISCONNECT SWITCH. E.C. TO CO-ORDIN COMPANY FOR EXACT LOCATION. C. NEW 400A, 120V/208V 3 PH, 4W, ELEC CO-ORDINATE EXACT LOCATION OF PANE D. NEW 125A, 120V/208V 3 PH, 4W, ELEC CO-ORDINATE EXACT LOCATION OF PANE D. NEW 125A, 120V/208V 3 PH, 4W, ELEC CO-ORDINATE EXACT LOCATION OF PANE E. THE METER AND DISCONNECT SHALL BE TIGHT TOGETHER AND AT ONE END OF T CLOSE TO EXISTING EQUIPMENT AS POST AREA AS POSSIBLE FOR FUTURE TENANT THE TENANT SHALL INDICATE THE PROPO WALL FOR THE PROPERTY MANAGER TO ROOM IS TAKEN UP ANY REWORK WILL EXPENSE.
ELECTRICAL CHARACTERISTICS : 120/208v-3ph- PANEL BOARD CONSTRUCTION : CIRCUIT BREAK 125 AMP MAIN LUGS AMP MAIN BREAKER/SWITCH 42 42 AVAILBLE CIRCUIT SPACES CKT NO. DESCRIPTION OF LOAD 1 PANEL RECEPTACLES 3 TOILET LIGHTS, RECEPTACLES 5 WH-4 7 41_BACK BAR REFRIGERATOR 9 BUBBLE NEON SIGN 11 47_BLENDER 13 44_HOT WATER DISPENSER 15 46_DROP-IN REFRIGERATED WELL 17 RECEPTACLE 19 LIGHTS 21 OUTDOOR SIGN 23 POS RECEPTACLES 25 WALK-IN COOLER 27 LIGHTS 29 LIGHTS 29 LIGHTS 29 LIGHTS 29 LIGHTS 21 OUTDOOR SIGN	Image: Second state sta	LC FE FE FE PER PHASE (V B 900.00 1 900.00 1 1000.00 1 1	DCATION : EDER SIZE : ED FROM : /A) C 3000.00 3000.00 900.00 900.00 540.00	CIRCU POLE 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	RECE JIT AMP 20 20 20 20 20 20 20 20 20 20 20 20 20	4-1 SSED SSED WIRE U I I I I I I I I I I I I I I I I I	+ 1#6, 1 1/4 PANEL "A" M SIZE 12 12 12 12 12 12 12 12 12 12 12 12 12	"C. OUNTING CIRC POLE 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	UIT AMP 20 40 20 20 20 20 20 20 20 20 20 20 20 20 20	A 240.00 1080.00 360.00 360.00 286.00	PER PH B 3000.00 3384.00 1384.00 120.00 1380.00 1380.00 865.00	ASE (VA) C 160.00 1680.00 280.00 280.00 345.00 345.00	DESCRIPTION OF LOAD LIGHTS WH-3 LIGHTS UGHTS RECEPTACLES 41_BACK BAR REFRIGERATOR 45_TEA BREWER CONVINENCE/KDS RECEPTACLE 48_CUP SEALER LIGHTS RECEPTACLES OPEN SIGN MENU BOARD MONITORS LIGHTS 25_VEGETABLE PREP MACHINE 26_U.C. FRIDGE 11.2_RICE WARMER	 RISER DIAGRAM KEYED WO A. NEW 400A, 120V/208V 3PHASE 4W SER BY LANDLORD. E.C. TO CO-ORDINATE WI MORE DETAILS. E.C. TO VERIFY SCOPE O LANDLORD/OWNER PRIOR TO BID. B. NEW 400A, 120V/208V 3 PH CT CABINE DISCONNECT SWITCH. E.C. TO CO-ORDIN COMPANY FOR EXACT LOCATION. C. NEW 400A, 120V/208V 3 PH, 4W, ELEC CO-ORDINATE EXACT LOCATION OF PANE D. NEW 125A, 120V/208V 3 PH, 4W, ELEC CO-ORDINATE EXACT LOCATION OF PANE D. NEW 125A, 120V/208V 3 PH, 4W, ELEC CO-ORDINATE EXACT LOCATION OF PANE E. THE METER AND DISCONNECT SHALL BE TIGHT TOGETHER AND AT ONE END OF T CLOSE TO EXISTING EQUIPMENT AS POSS AREA AS POSSIBLE FOR FUTURE TENANT THE TENANT SHALL INDICATE THE PROPO WALL FOR THE PROPERTY MANAGER TO ROOM IS TAKEN UP ANY REWORK WILL EXPENSE.
ELECTRICAL CHARACTERISTICS : 120/208v-3ph- PANEL BOARD CONSTRUCTION : CIRCUIT BREAK 125 AMP MAIN LUGS AMP MAIN BREAKER/SWITCH 42 42 AVAILBLE CIRCUIT SPACES CKT NO. DESCRIPTION OF LOAD 1 PANEL RECEPTACLES 3 TOILET LIGHTS, RECEPTACLES 5 WH-4 7 41_BACK BAR REFRIGERATOR 9 BUBBLE NEON SIGN 11 47_BLENDER 13 44_HOT WATER DISPENSER 15 46_DROP-IN REFRIGERATED WELL 17 RECEPTACLE 19 LIGHTS 21 OUTDOOR SIGN 23 POS RECEPTACLES 25 WALK-IN COOLER 27 LIGHTS 29 LIGHTS 21 OUTDOOR SIGN 23 POS RECEPTACLES 25 WALK-IN COOLER 27 LIGHTS 31 26.1_BLENDER 33 12_4 WELL HOT FOOD TABLE	Image: Second state sta	LC FE FE FE PER PHASE V B 900.00 10 900.00 10 10 10 10 10 10 10 10 10 10 10 10 1	DCATION : EDER SIZE : ED FROM : (A) C 3000.00 3000.00 900.00 900.00 540.00 410.00	CIRCU POLE 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	RECE JIT AMP 20 20 20 20 20 20 20 20 20 20 20 20 20	4-1 SSED SSED U U U U U U U U U U U U U	+ 1#6, 1 1/4 PANEL "A" M SIZE 12 12 12 12 12 12 12 12 12 12 12 12 12	"C. OUNTING POLE 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	UIT AMP 20 40 20 20 20 20 20 20 20 20 20 20 20 20 20	A 240.00 1080.00 360.00 360.00 286.00	PER PH B 3000.00 3384.00 384.00 120.00 120.00 1380.00 1380.00 865.00	ASE (VA) C 160.00 1680.00 280.00 345.00 345.00 865.00	DESCRIPTION OF LOAD LIGHTS WH-3 UH-3 LIGHTS RECEPTACLES LIGHTS RECEPTACLES 41_BACK BAR REFRIGERATOR 45_TEA BREWER CONVINENCE/KDS RECEPTACLE CONVINENCE/KDS RECEPTACLE 48_CUP SEALER LIGHTS RECEPTACLES OPEN SIGN MENU BOARD MONITORS LIGHTS 25_VEGETABLE PREP MACHINE 26_U.C. FRIDGE 11.2_RICE WARMER 14_2 WELL HOT FOOD TABLE	 RISER DIAGRAM KEYED WO A. NEW 400A, 120V/208V 3PHASE 4W SER BY LANDLORD. E.C. TO CO-ORDINATE WI MORE DETAILS. E.C. TO VERIFY SCOPE O LANDLORD/OWNER PRIOR TO BID. B. NEW 400A, 120V/208V 3 PH CT CABINE DISCONNECT SWITCH. E.C. TO CO-ORDIN COMPANY FOR EXACT LOCATION. C. NEW 400A, 120V/208V 3 PH, 4W, ELEC CO-ORDINATE EXACT LOCATION OF PANE D. NEW 125A, 120V/208V 3 PH, 4W, ELEC CO-ORDINATE EXACT LOCATION OF PANE E. THE METER AND DISCONNECT SHALL BE TIGHT TOGETHER AND AT ONE END OF CLOSE TO EXISTING EQUIPMENT AS POSS AREA AS POSSIBLE FOR FUTURE TENANT THE TENANT SHALL INDICATE THE PROPO WALL FOR THE PROPERTY MANAGER TO ROOM IS TAKEN UP ANY REWORK WILL EXPENSE.
LECTRICAL CHARACTERISTICS : 120/208v-3ph- ANEL BOARD CONSTRUCTION : CIRCUIT BREAK 125 AMP MAIN BREAKER/SWITCH 42 AVAILBLE CIRCUIT SPACES 44 AVAILBLE CIRCUIT SPACES 5 5 7 7 41 PANEL RECEPTACLES 3 7 10 PANEL RECEPTACLES 5 7 41_BACK BAR REFRIGERATOR 9 8 10 BUBBLE NEON SIGN 11 47_BLENDER 13 44_HOT WATER DISPENSER 13 44_HOT WATER DISPENSER 13 44_HOT WATER DISPENSER 13 44_HOT WATER DISPENSER 13 45 46_DROP-IN REFRIGERATED WELL 17 RECEPTACLE 19 LIGHTS 21 OUTDOOR SIGN 23 POS RECEPTACLES 25 WALK-IN COOLER 27 LIGHTS 29 LIGHTS 31 26.1_BLENDER 33 12_4 WELL HOT FOOD TABLE 37 12.1_WARMER DRAWER	Image: Second state sta	LC FE FE FE PER PHASE V B PER PHASE V B 900.00 1 900.00 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	DCATION : EDER SIZE : ED FROM : (A) C (A) C 3000.00 3000.00 900.00 900.00 540.00 410.00	CIRCU POLE 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	RECE JIT AMP 20 20 20 20 20 20 20 20 20 20 20 20 20	4-1 SSED WIRE 12 12 12	+ 1#6, 1 1/4 PANEL "A" M SIZE 12 12 12 12 12 12 12 12 12 12 12 12 12	"C. OUNTING POLE 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	CUIT AMP 20 40 20 20 20 20 20 20 20 20 20 20 20 20 20	A 240.00 1080.00 360.00 360.00 286.00 286.00	PER PF B 3000.00 3384.00 120.00 120.00 1380.00 1380.00 865.00 865.00	ASE (VA) C 160.00 1680.00 280.00 280.00 345.00 345.00 865.00	DESCRIPTION OF LOAD LIGHTS WH-3 LIGHTS WH-3 LIGHTS RECEPTACLES 41_BACK BAR REFRIGERATOR 45_TEA BREWER CONVINENCE/KDS RECEPTACLE 48_CUP SEALER LIGHTS RECEPTACLES 0PEN SIGN MENU BOARD MONITORS LIGHTS 25_VEGETABLE PREP MACHINE 25_VEGETABLE PREP MACHINE 26_U.C. FRIDGE 11.2_RICE WARMER 14_2 WELL HOT FOOD TABLE 14_2 WELL HOT FOOD TABLE	CKT NEW 400A, 120V/208V 3PHASE 4W SER BY LANDLORD. E.C. TO CO-ORDINATE WI MORE DETAILS. E.C. TO VERIFY SCOPE OF LANDLORD/OWNER PRIOR TO BID. B. NEW 400A, 120V/208V 3 PH CT CABINE DISCONNECT SWITCH. E.C. TO CO-ORDIN COMPANY FOR EXACT LOCATION. C. NEW 400A, 120V/208V 3 PH, 4W, ELEC CO-ORDINATE EXACT LOCATION OF PANE B. NEW 400A, 120V/208V 3 PH, 4W, ELEC CO-ORDINATE EXACT LOCATION OF PANE D. NEW 125A, 120V/208V 3 PH, 4W, ELEC CO-ORDINATE EXACT LOCATION OF PANE D. NEW 125A, 120V/208V 3 PH, 4W, ELEC CO-ORDINATE EXACT LOCATION OF PANE E. THE METER AND DISCONNECT SHALL BE TIGHT TOGETHER AND AT ONE END OF TOLOSE TO EXISTING EQUIPMENT AS POSS AREA AS POSSIBLE FOR FUTURE TENANT THE TENANT SHALL INDICATE THE PROPERT MOOM IS TAKEN UP ANY REWORK WILL EXPENSE. 24 25 28 30 32 34 36 38
LECTRICAL CHARACTERISTICS : 120/208v-3ph- ANEL BOARD CONSTRUCTION : CIRCUIT BREAK 125 AMP MAIN LUGS AMP MAIN BREAKER/SWITCH 42 AVAILBLE CIRCUIT SPACES CKT NO. DESCRIPTION OF LOAD 1 AVAILBLE CIRCUIT SPACES CKT NO. DESCRIPTION OF LOAD 1 AVAILE RECEPTACLES 3 TOTHET LIGHTS, RECEPTACLES 15 44_HOT WATER DISPENSER 15 15 ALGEPTACLE 19 10 <	Image: Second state sta	LC FE FE FE PER PHASE (V B 900.00 900.00 1 900.00 1 1 1 1 1 1 1 1 1 1 1 1 1	DCATION : EDER SIZE : ED FROM : (A) C 3000.00 3000.00 900.00 900.00 540.00 540.00	CIRCU POLE 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	RECE JIT AMP 20 20 20 20 20 20 20 20 20 20 20 20 20	4-1 SSED WIRE WIRE 12 12 13 13 14 15 15 15 15 15 15 15	+ 1#6, 1 1/4 PANEL "A" M SIZE 12 12 12 12 12 12 12 12 12 12 12 12 12	"C. OUNTING CIRC POLE 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	UIT AMP 20 40 20 20 20 20 20 20 20 20 20 20 20 20 20	A 240.00 1080.00 360.00 360.00 286.00 286.00	PER PH B 3000.00 3384.00 120.00 120.00 1380.00 1380.00 1380.00 1380.00 1380.00 1380.00	ASE (VA) C 160.00 1680.00 280.00 280.00 345.00 345.00 865.00	DESCRIPTION OF LOAD LIGHTS WH-3 UIGHTS LIGHTS LIGHTS RECEPTACLES 41_BACK BAR REFRIGERATOR 45_TEA BREWER CONVINENCE/KDS RECEPTACLE 48_CUP SEALER LIGHTS RECEPTACLES UIGHTS RECEPTACLES OPEN SIGN MENU BOARD MONITORS LIGHTS 25_VEGETABLE PREP MACHINE 26_U.C. FRIDGE 11.2_RICE WARMER 14_2 WELL HOT FOOD TABLE 14_2 WELL HOT FOOD TABLE	CKT NEW 400A, 120V/208V 3PHASE 4W SER BY LANDLORD, E.C. TO CO-ORDINATE WIM MORE DETAILS. E.C. TO VERIFY SCOPE CLANDLORD/OWNER PRIOR TO BID. B. NEW 400A, 120V/208V 3 PH CT CABINE DISCONNECT SWITCH. E.C. TO CO-ORDIN COMPANY FOR EXACT LOCATION. 2 4 6 8 10 12 14 15 16 18 19 20 21 22 23 34 36 38 40
ELECTRICAL CHARACTERISTICS : 120/208v-3ph- PANEL BOARD CONSTRUCTION : CIRCUIT BREAK 125 AMP MAIN BREAKER/SWITCH 42 AVAILBLE CIRCUIT SPACES 44 AVAILBLE CIRCUIT SPACES 5 CKT NO. DESCRIPTION OF LOAD 1 PANEL RECEPTACLES 3 TOILET LIGHTS, RECEPTACLES 5 WH-4 7 41_BACK BAR REFRIGERATOR 9 BUBBLE NEON SIGN 11 47_BLENDER 13 44_HOT WATER DISPENSER 14 44_HOT WATER DISPENSER 15 46_DROP-IN REFRIGERATED WELL 17 RECEPTACLE 19 LIGHTS 21 OUTDOOR SIGN 23 POS RECEPTACLES 25 WALK-IN COOLER 25 WALK-IN COOLER 27 LIGHTS 29 LIGHTS 31 26.1_BLENDER 33 12_4 WELL HOT FOOD TABLE 35 12.1_WARMER DRAWER 39 11.1_SANDWICH/PANINI GRILL 41 SPARE	Image: Second state sta	LC FE FE FE PER PHASE V B 900.00 10 900.00 10 10 10 10 10 10 10 10 10 10 10 10 1	DCATION : EDER SIZE : ED FROM : (A) C 3000.00 3000.00 900.00 900.00 900.00 410.00 410.00	CIRCU POLE 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	RECE JIT AMP 20 20 20 20 20 20 20 20 20 20 20 20 20	4-1 SSED SSED UI	+ 1#6, 1 1/4 PANEL "A" M SIZE 12 12 12 12 12 12 12 12 12 12 12 12 12	"C. OUNTING POLE 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	LUIT AMP 20 40 20 20 20 20 20 20 20 20 20 20 20 20 20	A 240.00 1080.00 360.00 360.00 286.00 286.00	PER PF B I 3000.00 I 33000.00 I 3384.00 I 120.00 I 120.00 I 1380.00 I 1380.00 I 1380.00 I 11380.00 I 11380.00 I 11200.00 I 11200.00 I	ASE (VA) C 160.00 1680.00 280.00 280.00 345.00 345.00 865.00	DESCRIPTION OF LOAD LIGHTS WH-3 LIGHTS WH-3 LIGHTS RECEPTACLES 41_BACK BAR REFRIGERATOR 45_TEA BREWER CONVINENCE/KDS RECEPTACLE 48_CUP SEALER LIGHTS RECEPTACLES 48_CUP SEALER LIGHTS RECEPTACLES OPEN SIGN MENU BOARD MONITORS LIGHTS 25_VEGETABLE PREP MACHINE 26_U.C. FRIDGE 11.2_RICE WARMER 14_2 WELL HOT FOOD TABLE 14.1_WARMER DRAWER SHOW WINDOW RECEPTACLES SPARE	CKT NEW 400A, 120V/208V 3PHASE 4W SER BY LANDLORD, E.C. TO CO-ORDINATE WIM MORE DETAILS. E.C. TO VERIFY SCOPE CLANDLORD/OWNER PRIOR TO BID. B. NEW 400A, 120V/208V 3 PH CT CABINE DISCONNECT SWITCH. E.C. TO CO-ORDIN COMPANY FOR EXACT LOCATION. 2 4 6 8 10 12 14 15 16 17 18 19 20 21 22 23 36 38 40 42

PANEL BOAR	D DESIGNATION :	Α			LOCATION :				BOH						
LECTRICAL	CHARACTERISTICS :	120/208v-3ph-4w			FEEDER SIZE :			4-600 k	(CM + 1#3,	, 3 1/2"C.					
PANEL BOAR	D CONSTRUCTION :	CIRCUIT BREAKER			FED FROM :			400A D	SCONNEC	T SWITCH					
	AMP MAIN						REC	ESSED		MOUNTING	i	-			
400/												-			
72												-			
				PER PHASE	E (VA)	CI	RCUIT	WIRE	SIZE	CIF	RCUIT		PER PHASE	VA)	CKT
CKT NO.	DESCRIPT	ION OF LOAD	A	В	C	POLE	AMP			POLE	AMP	A	В	С	DESCRIPTION OF LOAD NO.
1 5	2_ICE MACHINE		1323.00			1	20	12	12	1	20	200.00			WH-1 & WH-2 2
3 2	6.1_BLENDER			1323.00		1	20	12	12	1	20		600.00		DATA RACK 4
5 0	6_SANDWICH PREP		1000.00		403.00	1	20	12	12	1	20	000.00		1260.00	RECEPTACLES 6
/ K	3 SANDWICH PREP		1080.00	403.00		1	20	12	12	1	20	900.00	403.00		01 SANDWICH PREP 10
11 K	ITCHEN HOOD CONTRO	DLPANEL		103.00	600.00	1	20	12	12	1	20				SHUNT TRIP 12
13 S	HUNT TRIP		2			1	20	12	6	3	60	7124.83			DOAS-1 14
	UAS-Z			6729.01		3	60	6	-	-	-		7124.83		- 16
17 -					6729.01	-	-	-	-	-	-			7124.83	- 18
19 -	005 700 11/2 2525		6729.01	400.00		-	-	-	12	1	20	180.00			ROOF TOP W/P RECEPTACLES 20
21 R	UUF TUP W/P RECEPTA	AULES		180.00	1024.00	1	20	12							SPARE 22
25 E	F-2		1024 00		1024.00		20	12	12	2	20	1560.00			WALK-IN CONDENSING LINIT 26
27 V	 VALK-IN COOLER EVAP(DRATOR	102 1.00	2250.00		2	20	12	-	-	-	1000.00	1560.00		- 28
29 -					2250.00	-	-	<u> </u>	12	1	20			100.00	EF-3,EF-4 30
31 1	1.2 RICE WARMER	\sim	200.00						12	1	20	100.00			BCP-1 32
33 0	4_FRYER			100.00				\downarrow					345.00		3.1_REFRIGERATED EQUIPMENT STAND 34
35 S		<u>, , , , , , , , , , , , , , , , , , , </u>	44.55			1	20	12	40			100.05			SHUNT TRIP 36
- 37			11.36	11 26		3	125		12		20	100.00			TIMECLOCKT 38
41				11.30	11.36										SPARE 40 SPARE 40
	TOTAL LOAD	(VA)	10367.37	10996.37	11017.37		I	1 1				10164.83	10032.83	8484.83	TOTAL LOAD (VA)
P	HASE TOTALS		Α	В	C								· · · · · · · · · · · · · · · · · · ·		
т	OTAL PHASE VA		20532.20	21029.20	19502.20								169.15		CONNECTED AMPS (BALANCED)
Т	OTAL PHASE AMP		171.10	175.24	162.52										PHASE DEMAND AMPS (BALANCED)
				61.00											
	OTAL CONNECTED RV	1		01.00	0										
		_	1	I	1001-10-1	1	1				r				
FIECTOCAL		B 120/208y 2nh 4w		-	LUCATION :			<i>1</i> _1 →	BOH	"C					
		CIRCUIT BRFAKFR		-	FED FROM :			4-1 + D	<u>1π0, 1 1/4</u> ANFI "Δ"	·					
125	AMP MAIN	LUGS					RECES	SED	<u>-</u> N	IOUNTING					
	AMP MAIN	BREAKER/SWITCH													
42	AVAILBLE C	RCUIT SPACES													
i															
CKT NO.	DESCRIPT	TION OF LOAD	A	PER PHASE	(VA)	CIRC		WIRE S	IZE	CIRC		<u> </u>	PER PHASE (V.		DESCRIPTION OF LOAD
1 0	ANFL RECEPTACIES		A 180.00	В	L	PULE 1	20 AIVIP	12	12	PULE 1	20	A 240.00	В	L	
- r 3 T	OILET LIGHTS, RECEPT	ACLES	100.00	900.00		1	20	12	8	1	40	0.00	3000.00		WH-3 4
5 V	,				3000.00	1	40	8	12	1	20			160.00	LIGHTS 6
7 4	1_BACK BAR REFRIGER	ATOR	384.00			1	20	12	12	1	20	1080.00			RECEPTACLES 8
9 B	UBBLE NEON SIGN			200.00		1	20	12	12	1	20		384.00		41_BACK BAR REFRIGERATOR 10
11 4	7_BLENDER				1800.00	1	20	12	12	1	20			1680.00	45_TEA BREWER 12
13 4	4_HOT WATER DISPEN	SER	1800.00	456.65		1	20	12	12	1	20	360.00	120.00		CONVINENCE/KDS RECEPTACLE 14
15 4	o_DKOP-IN REFRIGERA			456.00	000.00	1	20	12	12	1	20		120.00	280.00	48_CUP SEALER 16
17 .					900.00		20	12	12	1	20	360 00		200.00	
17 R			520.00			4	I [∠]	12	12	1	20	500.00	200.00		NLCLFTACLES 20
17 R 19 L 21 C	ECEPTACLE IGHTS		520.00	1000.00		1	20	12 1		_					OPEN SIGN 22
17 R 19 L 21 C 23 P	ECEPTACLE IGHTS DUTDOOR SIGN OS RECEPTACLES		520.00	1000.00	540.00	1 1	20 20	12	12	1	20			345.00	OPEN SIGN 22 MENU BOARD MONITORS 24
17 R 19 L 21 C 23 P 25 V	ECEPTACLE IGHTS DUTDOOR SIGN OS RECEPTACLES VALK-IN COOLER		520.00 500.00	1000.00	540.00	1 1 1 1	20 20 20	12 12 12	12 12 12	1	20 20	286.00		345.00	OPEN SIGN 22 MENU BOARD MONITORS 24 LIGHTS 26
17 R 19 L 21 C 23 P 25 V 27 L	ECEPTACLE IGHTS DUTDOOR SIGN OS RECEPTACLES VALK-IN COOLER IGHTS		520.00 500.00	1000.00 287.00	540.00	1 1 1 1 1	20 20 20 20 20	12 12 12 12 12	12 12 12 12	1 1 1	20 20 20	286.00	1380.00	345.00	OPEN SIGN 22 MENU BOARD MONITORS 24 LIGHTS 26 25_VEGETABLE PREP MACHINE 28
17 R 19 L 21 C 23 P 25 V 27 L 29 L	ECEPTACLE IGHTS OUTDOOR SIGN OS RECEPTACLES VALK-IN COOLER IGHTS		520.00 500.00	1000.00 287.00	540.00	1 1 1 1 1 1 1	20 20 20 20 20 20 20	12 12 12 12 12 12 12 12	12 12 12 12 12 12	1 1 1 1	20 20 20 20 20	286.00	1380.00	345.00 345.00	OPEN SIGN22MENU BOARD MONITORS24LIGHTS2625_VEGETABLE PREP MACHINE2826_U.C. FRIDGE30
17 R 19 L 21 C 23 P 25 V 27 L 29 L 31 2	ECEPTACLE IGHTS OUTDOOR SIGN OS RECEPTACLES VALK-IN COOLER IGHTS IGHTS 6.1_BLENDER		520.00 500.00 1323.00	1000.00 287.00	540.00	1 1 1 1 1 1 1 1 1	20 20 20 20 20 20 20 20 20	12 12 12 12 12 12 12 12 12	12 12 12 12 12 12 12	1 1 1 1 1 1	20 20 20 20 20 20	286.00	1380.00	345.00 345.00	OPEN SIGN22MENU BOARD MONITORS24LIGHTS2625_VEGETABLE PREP MACHINE2826_U.C. FRIDGE3011.2_RICE WARMER32
17 R 19 L 21 C 23 P 25 V 27 L 29 L 31 2 33 1	ECEPTACLE IGHTS OUTDOOR SIGN OS RECEPTACLES VALK-IN COOLER IGHTS IGHTS 6.1_BLENDER 2_4 WELL HOT FOOD T	ABLE	520.00 500.00 1323.00	1000.00 287.00 1730.00	540.00 410.00	1 1 1 1 1 1 1 1 2	20 20 20 20 20 20 20 30	12 12 12 12 12 12 12 10	12 12 12 12 12 12 12 12 12	1 1 1 1 1 2	20 20 20 20 20 20 15	286.00	1380.00 865.00	345.00 345.00	OPEN SIGN 22 MENU BOARD MONITORS 24 LIGHTS 26 25_VEGETABLE PREP MACHINE 28 26_U.C. FRIDGE 30 11.2_RICE WARMER 32 14_2 WELL HOT FOOD TABLE 34
17 R 19 L 21 C 23 P 25 V 27 L 29 L 31 2 33 1 35 27	ECEPTACLE IGHTS OUTDOOR SIGN OS RECEPTACLES VALK-IN COOLER IGHTS IGHTS 6.1_BLENDER 2_4 WELL HOT FOOD T	ABLE	520.00 500.00 1323.00	1000.00 287.00 1730.00	540.00 410.00 1730.00	1 1 1 1 1 1 1 1 2 -	20 20 20 20 20 20 20 30	12 12 12 12 12 12 12 12 10 -	12 12 12 12 12 12 12 12 12 -	1 1 1 1 1 2 -	20 20 20 20 20 15 -	286.00	1380.00 865.00	345.00 345.00 865.00	OPEN SIGN 22 MENU BOARD MONITORS 24 LIGHTS 26 25_VEGETABLE PREP MACHINE 28 26_U.C. FRIDGE 30 11.2_RICE WARMER 32 14_2 WELL HOT FOOD TABLE 34 36 34
17 R 19 L 21 C 23 P 25 V 27 L 29 L 31 2 33 1 35 37 30 1	ECEPTACLE IGHTS OUTDOOR SIGN OS RECEPTACLES VALK-IN COOLER IGHTS IGHTS 6.1_BLENDER 2_4 WELL HOT FOOD T 2.1_WARMER DRAWEI 1.1_SANDWICH/PANIN	ABLE R	520.00 500.00 1323.00 900.00	1000.00 287.00 1730.00	540.00 410.00 1730.00	1 1 1 1 1 1 1 1 2 - 1 1 1	20 20	12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 10 - 12 12 12 12 12 12 12 12 12 12 12	12 12 12 12 12 12 12 12 12 12	1 1 1 1 1 2 - 1	20 20 20 20 20 15 - 20 20 20	286.00 (200.00 (450.00 ()	1380.00 1380.00 865.00 1200.00	345.00 345.00 865.00	OPEN SIGN 22 MENU BOARD MONITORS 24 LIGHTS 26 25_VEGETABLE PREP MACHINE 28 26_U.C. FRIDGE 30 11.2_RICE WARMER 32 14_2 WELL HOT FOOD TABLE 34 36 34 14.1_WARMER DRAWER 38
17 R 19 L 21 C 23 P 25 V 27 L 29 L 31 2 33 1 35 1 37 1 39 1	ECEPTACLE IGHTS OUTDOOR SIGN OS RECEPTACLES VALK-IN COOLER IGHTS 6.1_BLENDER 2_4 WELL HOT FOOD T 2.1_WARMER DRAWEI 1.1_SANDWICH/PANIN PARE	ABLE R II GRILL	520.00 500.00 1323.00 900.00	1000.00 287.00 1730.00 1725.00	540.00 410.00 1730.00	1 1 1 1 1 1 1 1 2 - 1 1 1	20 20 20 20 20 20 20 30 - 20 20 20 30 - 20 20 20	12 12	12 12 12 12 12 12 12 12 12 12	1 1 1 1 2 - 1 1	20 20 20 20 20 15 - 20 20 20	286.00 200.00 450.00	1380.00 1380.00 865.00 865.00 1200.00	345.00 345.00 865.00	OPEN SIGN 22 MENU BOARD MONITORS 24 LIGHTS 26 25_VEGETABLE PREP MACHINE 28 26_U.C. FRIDGE 30 11.2_RICE WARMER 32 14_2 WELL HOT FOOD TABLE 36 14.1_WARMER DRAWER 38 SHOW WINDOW RECEPTACLES 40 SPARE 42
17 R 19 L 21 C 23 P 25 V 27 L 29 L 31 2 33 1 35 1 39 1 41 S	ECEPTACLE IGHTS DUTDOOR SIGN OS RECEPTACLES VALK-IN COOLER IGHTS 6.1_BLENDER 2_4 WELL HOT FOOD T 2.1_WARMER DRAWEI 1.1_SANDWICH/PANIN PARE TOTAL LOAE	ABLE R II GRILL	520.00 500.00 1323.00 900.00 5607.00	1000.00 287.00 1730.00 1725.00 6298.00	540.00 410.00 1730.00 8380.00	1 1 1 1 1 1 1 1 2 - 1 1 1 1	20 20	12 12 12 12 12 12 12 12 12 12 10 - 12 12 12 10	12 12 12 12 12 12 12 12 12 12 12 12	1 1 1 1 2 - 1 1	20 20 20 20 20 15 - 20 20 20	286.00 200.00 20	1380.00 1380.00 865.00 1200.00 1200.00 7149.00	345.00 345.00 865.00 3675.00	OPEN SIGN 22 MENU BOARD MONITORS 24 LIGHTS 26 25_VEGETABLE PREP MACHINE 28 26_U.C. FRIDGE 30 11.2_RICE WARMER 32 14_2 WELL HOT FOOD TABLE 34 36 14.1_WARMER DRAWER 38 SHOW WINDOW RECEPTACLES 40 SPARE 42 TOTAL LOAD (VA)
17 R 19 L 21 C 23 P 25 V 27 L 29 L 31 2 33 1 35 1 37 1 39 1 41 S	ECEPTACLE IGHTS DUTDOOR SIGN OS RECEPTACLES VALK-IN COOLER IGHTS IGHTS 6.1_BLENDER 2_4 WELL HOT FOOD T 2.1_WARMER DRAWEI 1.1_SANDWICH/PANIN PARE TOTAL LOAE HASE TOTALS	ABLE R II GRILL D (VA)	520.00 500.00 1323.00 900.00 5607.00 A	1000.00 287.00 287.00 1730.00 1725.00 6298.00 B	540.00 410.00 1730.00 8380.00 C	1 1 1 1 1 1 1 1 2 - 1 1 1 1 1 1	20 20	12 12 12 12 12 12 12 12 12 12 10 - 12 12 10 - 12 12 10	12 12 12 12 12 12 12 12 12 12 12	1 1 1 1 2 - 1 1	20 20 20 20 15 - 20 20 20 20	286.00 (2000) (2	1380.00 1380.00 865.00 1200.00 1200.00 7149.00	345.00 345.00 865.00 3675.00	OPEN SIGN22MENU BOARD MONITORS24LIGHTS2625_VEGETABLE PREP MACHINE2826_U.C. FRIDGE3011.2_RICE WARMER3214_2 WELL HOT FOOD TABLE343634363438SHOW WINDOW RECEPTACLES40SPARE42TOTAL LOAD (VA)
17 R 19 L 21 C 23 P 25 V 27 L 29 L 31 2 33 1 35 1 37 1 39 1 41 S P T	ECEPTACLE IGHTS OUTDOOR SIGN OS RECEPTACLES VALK-IN COOLER IGHTS IGHTS 6.1_BLENDER 2_4 WELL HOT FOOD T 2.1_WARMER DRAWEI 1.1_SANDWICH/PANIN PARE TOTAL LOAE HASE TOTALS OTAL PHASE VA	ABLE R II GRILL	520.00 500.00 1323.00 900.00 900.00 5607.00 A 8583.00	1000.00 287.00 287.00 1730.00 1725.00 6298.00 8 13447.00	540.00 410.00 1730.00 8380.00 C 12055.00	1 1 1 1 1 1 1 1 2 - - 1 1 1 1 1 1	20 20	12 12 12 12 12 12 12 12 12 10 - 12 12 10 - 12 12	12 12 12 12 12 12 12 12 12 12 12 12	1 1 1 1 2 - 1 1	20 20 20 20 15 - 20 20 20 20	286.00 (1) 200.00 (1) 200.00 (1) 450.00 (1) 2976.00 (1)	1380.00 1380.00 865.00 1200.00 1200.00 7149.00 94.42	345.00 345.00 865.00 3675.00	OPEN SIGN 22 MENU BOARD MONITORS 24 LIGHTS 26 25_VEGETABLE PREP MACHINE 28 26_U.C. FRIDGE 30 11.2_RICE WARMER 32 14_2 WELL HOT FOOD TABLE 36 14.1_WARMER DRAWER 38 SHOW WINDOW RECEPTACLES 40 SPARE 42 TOTAL LOAD (VA) 42
17 R 19 L 21 C 23 P 25 V 27 L 29 L 31 2 33 1 35 1 37 1 39 1 41 S P T T	ECEPTACLE IGHTS OUTDOOR SIGN OS RECEPTACLES VALK-IN COOLER IGHTS IGHTS 6.1_BLENDER 2_4 WELL HOT FOOD T 2.1_WARMER DRAWE 1.1_SANDWICH/PANIN PARE TOTAL LOAE HASE TOTALS OTAL PHASE AMP	ABLE R II GRILL D (VA)	520.00 500.00 1323.00 900.00 900.00 5607.00 A 8583.00 71.53	1000.00 287.00 287.00 1730.00 1725.00 6298.00 8 13447.00 112.06	540.00 410.00 1730.00 8380.00 C 12055.00 100.46	1 1 1 1 1 1 1 1 2 - - 1 1 1 1	20 20 20 20 20 20 30 - 20 20 30 - 20 20 30	12 12 12 12 12 12 12 12 12 10 - 12 12 10	12 12 12 12 12 12 12 12 12 12	1 1 1 1 2 - 1 1	20 20 20 20 20 15 - 20 20 20	286.00 (1) 200.00 (1) 450.00 (1) 2976.00 (1)	1380.00 1380.00 865.00 1200.00 1200.00 7149.00 94.42	345.00 345.00 865.00 3675.00	OPEN SIGN22MENU BOARD MONITORS24LIGHTS26LIGHTS2625_VEGETABLE PREP MACHINE2826_U.C. FRIDGE3026_U.C. FRIDGE3011.2_RICE WARMER3214_2 WELL HOT FOOD TABLE3636343638SHOW WINDOW RECEPTACLES40SPARE42CONNECTED AMPS (BALANCED)42PHASE DEMAND AMPS (BALANCED)



NYE DRAWN BY E001

23045 PROJECT #

		FIXTURE SCHEDUI	_E		
SYMBOL	LAMPS AND/OR BALLASTS	DESCRIPTION	VOLTAGE	APPROVED FIXTURES	REMARKS
	41 WATTS, 3300 LUMENS, 4000 K	2 X 2 SWITCHABLE FLAT PANEL FIXTURE	120 V.	LITHONIA - "CPANL" SERIES OR ARCHITECT / ENGINEER ACCEPTED SUBSTITUTE	MODEL - CPANL2X2AL01SWW7M433001080 120V41
O _B	10.6 WATTS, 850 LUMENS, 4000 K	4 INCH SMART WAFER RECESSED CEILING DOWNLIGHT WITH JUNCTION BOX	120 V.	JUNO "WF4C" SERIES OR ARCHITECT / ENGINEER ACCEPTED SUBSTITUTE	MODEL - WF4CRDTUWHMWM6
С	52 WATTS, 4000 LUMENS, 4000 K	PENDANT MOUNTED 4 FOOT LINEAR FIXTURE	120 V.	PEERLESS - "CERRA 10" SERIES OR ARCHITECT/ENGINEER ACCEPTED SUBSTITUTE	MODEL - 10CRM4LLLP4FTMSL480CRISBL40K 1000LMF120SCT1EC
\$-\$-\$-\$	10 WATTS, 808 LUMENS, 4000 K	LED SURFACE MOUNTED TRACK LIGHTS	120 V.	JUNO "TRAC-LITES" SERIES OR ARCHITECT / ENGINEER ACCEPTED SUBSTITUTE	MODEL - R600LG240K80CRIPDIMNFLBL
Ε	20 WATTS, 6000 LUMENS, 4000 K	24 INCH LOW PROFILE VAPOR PROOF SURFACE MOUNTED CEILING LIGHT	120 V.	LITHONIA "FEM LED" SERIES OR ARCHITECT / ENGINEER ACCEPTED SUBSTITUTE	MODEL - FEML246000LMLPPCLMD120GZ 1040K80CRI
	LED 1.5W / 9.6V	REMOTE EMERGENCY LIGHT FIXTURE - OUTDOOR	9.6 V.	LITHONIA - "ELA-Q" OR ARCHITECT / ENGINEER ACCEPTED SUBSTITUTE	MODEL - # ELA-Q-L0309-SD
EXIT	LONG LIFE LED	THERMOPLASTIC EXIT SIGN WITH 90 MINUTE NI-CAD BATTERY AND SELF DIANOSTICS; UNIVERSAL MOUNT; WHITE, STENCIL FACE HOUSING; RED LETTERS, FIXTURE WIRED TO LOCAL AREA LIGHTING CIRCUIT AHEAD OF ANY SWITCHING	120 V.	LITHONIA - "LHOM" SERIES OR ENGINEER ACCEPTED SUBSTITUTE	MODEL - #LHQM-LED-R-HO-SD
EM	LED 1W	2-HEAD EMERGENCY HEADS (WHITE)	9.6 V.	EXITRONIX ENGINEER ACCEPTED SUBSTITUTE	MODEL- #EBU-W-LED-51-52

ELECTRICAL SPECIFICATIONS:

- 1. ELECTRICAL WORK SHALL COMPLY WITH REQUIREMENTS OF NATIONAL ELECTRICAL CODE, NATIONAL ELECTRICAL SAFETY CODE OF BUREAU OF STANDARDS, STATE BUILDING RULES AND REGULATIONS AND LOCAL ORDINANCES, AND SUCH OTHER STATUTORY PROVISIONS THAT PERTAIN TO THIS CLASS OF WORK.
- 2. CONTRACTOR SHALL GUARANTEE THIS INSTALLATION AGAINST DEFECTS IN EQUIPMENT AND/OR WORKMANSHIP FOR A PERIOD OF TWELVE (12) MONTHS FROM DATE OF FINAL ACCEPTANCE.
- 3. CONTRACTOR SHALL VISIT THE SITE AND EXAMINE THE PREMISES AND SHALL FULLY INFORM HIMSELF AS TO THE CONDITIONS UNDER WHICH WORK IS TO BE DONE. FAILURE TO DO SO SHALL NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY FOR THE FULL PERFORMANCE OF THE CONTRACT, NOR WILL EXTRA COMPENSATION BE ALLOWED FOR CONDITIONS DISCLOSED AFTER BID OPENING.
- 4. CONTRACTOR SHALL PROVIDE ALL MATERIALS NECESSARY FOR PROPER EXECUTION OF THE WORK. ALL MATERIALS SHALL BE NEW AND BEST OF THEIR RESPECTIVE KINDS FOR USE INTENDED. MATERIAL SHALL BE APPROVED BY U.L. INC. OF NATIONAL BOARD OF UNDERWRITERS.
- 5. CONDUCTORS FOR POWER SHALL BE 600 VOLT STRANDED COPPER THHN/THW NO. 12 AWG MIN. CONDUIT SHALL BE 1/2" EMT MIN.
- 6. CONTRACTOR SHALL OBTAIN ALL NECESSARY ELECTRICAL PERMITS AND CERTIFICATES OF INSPECTION FOR CONSTRUCTION.

GENERAL ELECTRICAL NOTES:

- 1. IT IS STRONGLY RECOMMENDED THAT ALL BIDDERS VISIT AND EXAMINE THE SITE. NO ADDITIONAL COMPENSATION WILL BE AWARDED FOR ANY DEVIATIONS OR DISCREPANCIES TO THESE PLANS. THE CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH ALL CONDITIONS UNDER WHICH WORK MUST BE PERFORMED AND CHECK ALL PRESENT ELEVATIONS. THE CONTRACTOR SHALL REPORT ANY DISCREPANCIES TO THE ENGINEER. FAILURE TO DO SO SHALL BE DEEMED AS ACCEPTANCE OF EXISTING CONDITIONS.
- 2. PRIOR TO BIDDING. ALL ELECTRICAL CONTRACTORS, SUBCONTRACTORS, VENDORS AND SUPPLIERS ARE DIRECTED TO READ SPECIFICATION SECTION 16000 GENERAL ELECTRICAL PROVISIONS CONCERNING PROJECT SUBMITTALS.
- 3. ITEMS SPECIFIED ON ELECTRICAL EQUIPMENT SCHEDULES AND PLANS ARE THE BASIS OF DESIGN. EQUALITY OF OTHER EQUIPMENT SHALL BE DETERMINED BY THE OWNER AND ENGINEER. ANY MODIFICATION TO THESE DOCUMENTED METHODS THAT IS NECESSARY BY ALTERNATE EQUIPMENT IS THE RESPONSIBILITY OF THE SUPPLIER OF THE ALTERNATE EQUIPMENT.
- 4. CONTRACTOR SHALL FIELD VERIFY EXACT LOCATION OF ALL NEW EQUIPMENT WITH EXISTING CONDITIONS AND COORDINATE WITH THE GENERAL AND OTHER CONTRACTORS PRIOR TO ROUGH-IN AND/OR INSTALLING ANY OF THIS WORK.
- 5. ELECTRICAL CONTRACTOR SHALL FIELD VERIFY ALL CLEARANCES AND CONDITIONS PRIOR TO THE START OF ANY CONDUIT, CABLE TRAY, RACEWAY, BUSWAY SYSTEMS ETC., VERIFY LOCATIONS OF ALL OUTLET BOXES. SURFACE MOUNTED DEVICES. PANELBOARD ENCLOSURES, FIXTURE LOCATIONS, ETC., WITH ARCHITECTURAL, STRUCTURAL AND MECHANICAL DRAWINGS PRIOR TO ROUGH-IN. VERIFY EXACT LOCATIONS AND INVERTS OF DUCTBANKS. SITE LIGHTING POLES, FIXTURES, BOLLARDS, ETC. WITH CIVIL AND SITE DEVELOPMENT DRAWINGS PRIOR TO TRENCHING. REPORT ANY DISCREPANCIES WITH THE ENGINEER PRIOR TO PROCEEDING WITH WORK.

KEY ELECTRICAL NOTES: (#)

- 1. WALL MOUNTED MOTION SENSOR. SET OFF TIME TO 15 MINUTES FOR RESTROOM, SET DIP SWITCH TO AUTOMATIC ON.
- 2. WIRE ALL EMERGENCY, EXIT LIGHT AHEAD OF SWITCHING FOR CONTINUOUS OPERATIONS. CONNECT TO ADJACENT LIGHTING CIRCUIT.
- 3. E.C. TO PROVIDE OVERRIDE SWITCH. COORDINATE EXACT LOCATION OF SWITCH BANK WITH ARCHITECT/OWN
- 4. COORDINATE EXACT LOCATION OF TIME CLOCK WITH ARCHITECT/OWNER.
- 5. EF-3 & EF-4 SHALL BE INTERLOCKED WITH DOAS-2. E.C. TO REFER MECHANICAL DRAWINGS FOR MORE DETAILS AND PROVIDE NECESSARY WIRING AS REQUIRED.

- A JOURNEYMAN ELECTRICIAN.
- DO ALL CUTTING, FITTING AND PATCHING THAT MAY BE REQUIRED.
- SHALL BE RUN AS INCONSPICUOUSLY AS POSSIBLE, I.E. TIGHT TO CORNERS, ETC.
- SWITCHES IN ACCORDANCE WITH THE N.E.C.
- 11. ALL CIRCUIT BREAKERS USED TO FEED MECHANICAL EQUIPMENT SHALL BE "HACR" TYPE.
- 12. ELECTRICAL CONTRACTOR SHALL PROVIDE GROUNDING PER NEC ARTICLE 250.

CHAPTER 7.

- 7. THIS CONTRACTOR SHALL INCLUDE ALL NECESSARY OVER TIME AND PREMIUM TIME (SATURDAY, SUNDAY, HOLIDAYS) REQUIRED FOR THE COMPLETION OF THE INTENDED WORK.
- WIRING DETAILED ON THESE PLANS.
- 11. LOCATE AND INSTALL ALL DEVICES AND FIXTURES IN ACCORDANCE WITH AMERICAN DISABILITY ACT GUIDELINES.

7. ELECTRICAL CONTRACTOR TO PROVIDE RIGED CONDUIT AND SEALS AS REQUIRED BY WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE BEST PRACTICES OF THE TRADE. ELECTRICAL WORK SHALL BE INSTALLED BY JOURNEYMAN ELECTRICIANS, UNDER THE DIRECT SUPERVISION OF A COMPETENT FOREMAN. AT NO TIME SHALL ELECTRICAL WORK BE INSTALLED BY APPRENTICE ELECTRICIANS OF LABORERS WITHOUT THE IMMEDIATE, ON THE JOB SUPERVISION OF

8. CONTRACTOR SHALL COORDINATE HIS WORK WITH BUILDING OWNER AND OTHER TRADES. CONTRACTOR SHALL

9. ELECTRICAL WORK SHALL BE CONCEALED FROM VIEW. EXPOSED RACEWAYS WHERE NOTED IN FINISHED AREAS

10. ELECTRICAL CONTRACTOR SHALL COORDINATE ALL POWER WIRING, SAFETY DISCONNECT MEANS, MOTOR CONTROL AND CONTROL WIRING FOR MECHANICAL EQUIPMENT WITH THE MECHANICAL CONTRACTOR. LOCATE

13. ALL PENETRATIONS, ECT. THRU FIRE/SMOKE RELATED PARTITIONS OR ASSEMBLIES SHALL COMPLY WITH OBC

6. THIS CONTRACTOR SHALL DISPOSE OF ALL MATERIALS GENERATED FROM REMOVAL, AND INSTALLATION OF THIS WORK. MATERIALS SHALL BE REMOVED FROM THE PROJECT SITE WEEKLY MINIMUM. THIS CONTRACTOR SHALL PROVIDE TO THE OWNER ANY SALVAGEABLE MATERIAL AS DIRECTED BY THE OWNER OR ENGINEER

8. ELECTRICAL CONTRACTOR SHALL COORDINATE ALL POWER WIRING, SAFETY DISCONNECT MEANS, MOTOR CONTROL AND CONTROL WIRING FOR MECHANICAL EQUIPMENT WITH THE MECHANICAL CONTRACTOR.

9. THE MECHANICAL CONTRACTOR, MECHANICAL EQUIPMENT SUPPLIER, OR TEMPERATURE CONTROL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL LOW VOLTAGE TEMPERATURE CONTROL WIRING REQUIRED FOR THE PROJECT UNDER DIVISION 15000. THIS ELECTRICAL CONTRACTOR SHALL INSTALL, TERMINATE AND LABEL ALL 120VAC. INTERLOCK

10. ALL MOUNTING HEIGHTS INDICATED FOR FIXTURES AND DEVICES ARE ABOVE FINISH FLOOR (A.F.F.) WHICH SHALL BE THE MAIN FLOOR, NOT PITS, DEPRESSIONS, ELEVATIONS, ETC., UNLESS OTHERWISE INDICATED.

12. ALL LIFE SAFETY AND FIRE ALARM SYSTEMS SHALL BE DESIGNED, FURNISHED AND INSTALLED BY A CERTIFIED LICENSED FIRE ALARM CONTRACTOR. THE CONTRACTOR SHALL SUBMIT ALL NECESSARY DOCUMENTS FOR PERMITTING.

FIRE ALARM NOTE:

1. FIRE ALARM SYSTEM DRAWINGS SHALL BE PROVIDED BY AN OWNER APPROVED CONTRACTOR AND SUBMITTED UNDER A SEPARATE PERMIT.

FIRE ALARM SYSTEMS SHALL BE CAPABLE OF IDENTIFYING A FIRE ALARM DEVICE ACTIVATION AND/OR WATERFLOW DEVICE ACTIVATION IN PROJECT SPACE. AN AUDIO/VISUAL DEVICE SHALL BE PROVIDED AT THE FRONT ENTRANCE TO PROJECT SPACE TO IDENTIFY THE LOCATION OF AN ACTIVATED DEVICE(S).

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CONSULTANTS (ENGINEER):

ENGINEEF

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		-
⚠	LANDLORD CHANGES	11/10/23
	ISSUE FOR PERMIT	03/31/23
NO.	DESCRIPTION	DATE
	REVISIONS	



	LEGEN	ND	
SYMBOL	DESCRIPTION	SYMBOL	DES
\$ \$ ₃ \$ _{MS} \$	SINGLE/TWO POLE, 3 AND MOTION SENSOR WALL SWITCHES; 20A-120VAC; FLUSH MOUNTED IN FINISH SPACE; M.H.=48"		JUNCTION BOX
\$ _A \$ _B	SWITCH A - LUTRON CASETA ORIGINAL SMART DIMMER SWITCH (BLACK) SWITCH B - LUTRON CASETA ORIGINAL SMART SWITCH FOR LIGHT OR FAN CONTROL (BLACK)	6	RECEPTACLE; NEMA 6-30R; 50A-240VAC IN FINISHED SPACE; M.H18" UNLESS NC W/ OWNER SUPPLIED EQUIPMENT
Ф	DUPLEX RECEPTACLE; NEMA 5-20R; 20A-120VAC; SPECIFICATION GRADE; FLUSH MOUNTED IN FINISHED SPACE; M.H18" UNLESS NOTED OTHERWISE,	Т/С	TIME CLOCK
Ø	GFI DUPLEX RECEPTACLE; NEMA 5-20R; 20A-120VAC; SPECIFICATION GRADE; FLUSH MOUNTED IN FINISHED SPACE; M.H18" UNLESS NOTED OTHERWISE,	V/D	VOICE / DATA OUTLET; 2 1/2" DEEP 2-G, STUB 1" C. OUT ABOVE CEILING; FLUSH OTHERWISE; BOND TO NEAREST BUILDI
ф	DOUBLE DUPLEX RECEPTACLE; NEMA 5-20R; 20A-120VAC; SPECIFICATION GRADE; FLUSH MOUNTED IN FINISHED SPACE; M.H18" UNLESS NOTED OTHERWISE,	PE	PHOTOELECTRIC EYE; 120V; 2000W MAX ENGINEER ACCEPTED SUBSTITUTE
ф	GFI DOUBLE DUPLEX RECEPTACLE; NEMA 5-20R; 20A-120VAC; SPECIFICATION GRADE; FLUSH MOUNTED IN FINISHED SPACE; M.H18" UNLESS NOTED OTHERWISE,	w	WALL TELEPHONE JACK
Φ	DUPLEX RECEPTACLE; NEMA 5-20R; 20A-120VAC; SPECIFICATION GRADE; FLUSH MOUNTED IN FINISHED SPACE; M.H18" UNLESS NOTED OTHERWISE PROVIDE WITH (1) HUBBELL USB15X2W USB RECEPTACLES,	С	CONTACTOR, SIZE AND POLES AS NOTE
Φ	SINGLE RECEPTACLE; NEMA 6-50R; 50A-125VAC; SPECIFICATION GRADE; FLUSH MOUNTED IN FINISHED SPACE; M.H18" UNLESS NOTED OTHERWISE,	lı	INDICATES GROUNDING PER NFPA ARTI
	DUPLEX RECEPTACLE; NEMA 5-20R; 20A-120VAC; SPECIFICATION GRADE; FLUSH MOUNTED IN CEILING	S	seal for conduit
↓ FL	FLOOR BOX DUPLEX RECEPTACLE; NEMA 5-20R; 20A-120VAC; SPECIFICATION GRADE; FLUSH MOUNTED IN FINISHED FLOOR		FLOOR BOX DUPLEX RECEPTACLE WITH SPECIFICATION GRADE; FLUSH MOUNTE
Ø WP	GFI DUPLEX RECEPTACLE WITH WEATHERPROOF "IN-USE" COVER; NEMA 5-20R; 20A-120VAC; SPECIFICATION GRADE; FLUSH MOUNTED IN FINISHED SPACE; M.H18" UNLESS NOTED OTHERWISE	(0 (0 (1 (1 (1 (1 (1 (1 (1 (1 (1 (1 (1 (1 (1	EXISTING DEVICE, ETC TO REMAIN - NO
EQUIPMENT SCHEDU	JLE		CAL SCHEDULE

ITEM NO.	QTY	DESCRIPTION	PROVIDER	VENDOR	INSTALL	FIN.CON.	HP	VOLTAGE/PHAS E	AMPS	Remark
		COOK LINE								
01	1	SANDWICH PREP	F	KES	GC	EC	1/5	115/60/1	3.5	
3.1	1	REFRIGERATED EQUIPMENT STAND	F	KES	GC	EC	1/4	115/60/1	3	
4	2	FRYER	F	KES	GC	EC		115/60/1	5	
6	1	SANDWICH PREP	F	KES	GC	EC	1/5	115/60/1	3.5	
		MAKE LINE								
11.1	1	SANDWICH/PANINI GRILL	F	KES	GC	EC		120/60/1	15	
11.2	2	RICE WARMER	F	KES	GC	EC		120/60/1	0.8	
12	1	4 WELL HOT FOOD TABLE	F	KES	GC	EC		208/60/1	16.63	
12.1	2	WARMER DRAWER	F	KES	GC	EC		120/60/1	3.75	
13	1	SANDWICH PREP	F	KES	GC	EC		115/60/1	7.2	
14	1	2 WELL HOT FOOD TABLE	F	KES	GC	EC		208/60/1	8.32	
14.1	1	WARMER DRAWER	F	KES	GC	EC		120/60/1	3.75	
		PREP								
25	1	VEGETABLE PREP MACHINE	F	KES	GC	EC	1-1/2	115/60/1	12	
26	1	U.C. FRIDGE	F	KES	GC	EC	1/5	115/60/1	3	
26.1	1	BLENDER	F	KES	GC	EC	2.3	120/60/1	11.5	
		STOCK AREA								
11.2	2	RICE WARMER	F	KES	GC	EC		120/60/1	0.8	
		WAREWASHING								
26.1	1	BLENDER	F	KES	GC		2.3	120/60/1	11.5	
		TEA BAR								
41	2	BACK BAR REFRIGERATOR	F	KES	GC	EC		115/60/1	3.2	
44	1	HOT WATER DISPENSER	F	KES	GC	EC		120/60/1	15	
45	1	TEA BREWER	F	KES	GC			120/60/1	14	
46	1	DROP-IN REFRIGERATED WELL	F	KES	GC	EC	1/5	120/60/1	3.8	
47	1	BLENDER	F	KES	GC			120/60/1	15	
48	1	CUP SEALER	F	KES	GC			120/60/1	1	
		OTHER								
52	1	ICE MACHINE	F	KES	GC			115/60/1	11.5	
53	1	WALK-IN COOLER	F	KES	GC	EC				
NOTE :										
NOTE: FOI	R LIGHTING	G, ALARM CLOCKS, DOOR FRAME HEATERS,	PORTS & SILLS		CONTRACTOR	R TO INSTALL &	& WIRE ALL LI	GHT FIXTURES IN W	ALK-IN CO	JOLER / FREEZER.
ABBRIVATI		WITT ARCHITECT / RITCHER EQUILIBERT 5		CONNECTION						
F-FRANCHI	SEE				KES-KITCHEN	N EQUIPMENT	SUPPLIER			
GC- GENER					KVS-KITCHE	N VENTILATIO				
HC- HVAC (CONTRACT	OR			FIN.CON FI	NAL CONNECT	TION			
PC- PLUMB		RACTOR			UC- UTILITY	COMPANY				
								<u>,</u>		
NOTF	S:		*	* * `	- *		~ ~ ~			
	<u></u>									

						LEGEN	ND										
SYM	IBOL	DESCRI	PTION				SYMBOL	_		DE	SCRIPTION						
\$ \$ ₃	\$ _{MS} \$\$	SINGLE/TWO POLE, 3 AND MOTION SENSO IN FINISH SPACE; M.H.=48"	OR WALL SWITC	HES; 20A-120V	AC; FLUSH MC	DUNTED		JUNC	TION BOX								
\$	\$ _в	SWITCH A - LUTRON CASETA ORIGINAL SMA SWITCH B - LUTRON CASETA ORIGINAL SMA	ART DIMMER S\ ART SWITCH FO	VITCH (BLACK) R LIGHT OR FA	n control (I	BLACK)	<u>(30)</u>	RECEI IN FIN W/ O	PTACLE; NEM NISHED SPAC WNER SUPPL	MA 6-30R; 50A-240VA E; M.H18" UNLESS N LIED EQUIPMENT	c, 1ø; specification grade; flush mounted oted otherwise - verify final configuration				-	<u> </u>	⊕_1) B-40
¢	abla	DUPLEX RECEPTACLE; NEMA 5-20R; 20A-120 FINISHED SPACE; M.H18" UNLESS NOTED C	ovac; specific Dtherwise,	ATION GRADE;	FLUSH MOUN	NTED IN	Т/С	TIME	CLOCK								ENTRY/O
¢	Þ	GFI DUPLEX RECEPTACLE; NEMA 5-20R; 20A IN FINISHED SPACE; M.H18" UNLESS NOTED	4-120VAC; SPEC D OTHERWISE,	CIFICATION GRA	ADE; FLUSH M	OUNTED	V/D	VOIC STUB OTHE	e / Data Ou 1" C. Out Ae Erwise; Bon	JTLET; 2 1/2" DEEP 2-0 30VE CEILING; FLUSH D TO NEAREST BUILL	GANG BOX WITH 1-GANG VERTICAL PLASTER RING; MOUNTED BLANK COVER; M.H.=18" UNLESS NOTED ING GROUNDING SYSTEM POINT. WIRING BY OTHERS.				⊖ B-8		ABOVE 12 FEET BL
þ	Þ	DOUBLE DUPLEX RECEPTACLE; NEMA 5-20R MOUNTED IN FINISHED SPACE; M.H18" UN	r; 20A-120VAC; ILESS NOTED C	SPECIFICATION THERWISE,	n grade; flu:	SH	PE	PHOT ENGII	foelectric e Neer Accep	EYE; 120V; 2000W M/ TED SUBSTITUTE	X; ADJUSTABLE; M.H.=10'; WATTSTOPPER LS-290C OR						BLACK COVERS
Ć	即	GFI DOUBLE DUPLEX RECEPTACLE; NEMA 5- MOUNTED IN FINISHED SPACE; M.H18" UN	5-20R; 20A-120\ NLESS NOTED C	/ac; specifica [:])Therwise,	TION GRADE;	FLUSH	w	WALL	L TELEPHONE	ЕЈАСК							
¢	₽	DUPLEX RECEPTACLE; NEMA 5-20R; 20A-120 FINISHED SPACE; M.H18" UNLESS NOTED O USB15X2W USB RECEPTACLES.	ovac; specific otherwise pro	ATION GRADE; DVIDE WITH (1)	FLUSH MOUN HUBBELL	ITED IN	С	CONT	TACTOR, SIZE	AND POLES AS NOT	ED			•	⊕B-17		³ USH BUTTON CONTR LIGHTS, EF-1&2
(Þ	SINGLE RECEPTACLE; NEMA 6-50R; 50A-125 FINISHED SPACE; M.H18" UNLESS NOTED C	ivac; specific/ otherwise,	ATION GRADE;	FLUSH MOUN	TED IN	ı	INDIC	CATES GROUI	NDING PER NFPA AR	TICLE 250						
	\mathbb{D}	DUPLEX RECEPTACLE; NEMA 5-20R; 20A-120 FLUSH MOUNTED IN CEILING	ovac; specific	Ation grade;	;		(2)	SEAL	FOR CONDL	ЛТ			SEATING RECEPTA WHITE C	AREA WHITE CLES WITH OVERS			B-17 -€ 0∓
		FLOOR BOX DUPLEX RECEPTACLE; NEMA 5- MOUNTED IN FINISHED FLOOR	-20R; 20A-120V	AC; SPECIFICAT	fion grade; f	FLUSH		FLOOI SPECIF	r box dupli Fication gr	ex receptacle with Ade; flush mount	POS DATA RECEPTACLE; NEMA 5-20R; 20A-120VAC; ED IN FINISHED FLOOR						
	D WP	GFI DUPLEX RECEPTACLE WITH WEATHERPI SPECIFICATION GRADE; FLUSH MOUNTED IN	ROOF "IN-USE" N FINISHED SP/	COVER; NEMA ACE; M.H18" U	5-20R; 20A-12 NLESS NOTED	ovac; Otherwise	$\Phi \oplus \oplus I$	EXISTI	ING DEVICE,	ETC TO REMAIN - N	O CHANGE				⊕ B-8		
EQUIPMEN	T SCHEDUL	E	1				EQUIPMENT ELEC		HEDULE		KEY ELECTRICAL NOTES:						
TEM NO.	QTY	COOK LINE	PROVIDER	VENDOR	INSTALL	FIN.CON.	HP VO	E E	AMPS	Remark	PROVIDE CEILING MOUNTED RECEPTA BY CODE, VERIFY EXACT LOCATION OF	ACLES FOR SHOW WINDOW AS REQUIN F OUTLETS WITH ARCHITECT.	?EI				
01	1	SANDWICH PREP	F	KES	GC	EC	1/5	115/60/1	3.5		$\langle 2 \rangle$ JUNCTION BOX FOR KITCHEN HOOD C	CONTROL PANEL. E.C. TO COORDINAT					SEATING B-8 1
3.1 4	1	REFRIGERATED EQUIPMENT STAND	F	KES KES	GC	EC FC	1/4	115/60/1	3		EXACT LOCATION AND DETAILS OF KIT KITCHEN HOOD SUPPLIER PRIOR TO BI	ITCHEN HOOD CONTROL PANEL WITH					102
6	1	SANDWICH PREP	F	KES	GC	EC	1/5	115/60/1	3.5			REQUIREMENT WITH WALK-IN BOX PROVISION ACCORDINGLY.			⊕B-17		
11.1	1	MAKE LINE SANDWICH/PANINI GRILL	F	KES	GC	EC		120/60/1	15				•				
11.2	2	RICE WARMER	F	KES	GC	EC		120/60/1	0.8		<u>NOTES:</u>						B-17 ± 0‡
12	1	4 WELL HOT FOOD TABLE	F	KES KES	GC	EC EC		208/60/1	16.63 3.75		SCOPE MENTIONED ABOVE FOR SUP EQUIPMENTS IS FOR REFERENCE ONL	PPLY & INSTALLATION OF THE LY. COORDINATE & VERIFY WITH					
13	1	SANDWICH PREP	F	KES	GC	EC		115/60/1	7.2		EQUIPMENT.	CFOR SUPPLY AND INSTALLATION OF					
14	1	2 WELL HOT FOOD TABLE	F	KES	GC	EC		208/60/1	8.32			AKER SIZE, WIRE QUANTITY AND					
14.1	1	WARMER DRAWER	F	KES	GC	EC		120/00/1	3.75		BOX/OUTLET/DISCONNECT) OF EQUI PROVIDE ACCORDINGLY. ANY DISCRE	JIPMENT WITH EQUIPMENT SUPPLIER &			₩ В-8		
25	1		E	VES	60	EC	1_1/2	115/60/1	12		WITH ENGINEER ON RECORD PRIOR T	TO BIDDING/ROUGH-IN.	\triangle				
25	1	U.C. FRIDGE	F	KES	GC	EC	1/5	115/60/1	3		3. ALL PUMPS, CONDENSERS AND ANY ISOLATED TO PREVENT VIBRATION A	OTHER EQUIPMENTS SHALL BE					11/
26.1	1	BLENDER	F	KES	GC	EC	2.3	120/60/1	11.5		THE STRUCTURE OR TO ADJACENT TE	ENANTS.					
11.2	2	STOCK AREA RICE WARMER	F	KES	GC	EC		120/60/1	0.8						L	WAITING 103	
		WAREWASHING													D 17/	本	
26.1	1	BLENDER	F	KES	GC		2.3	120/60/1	11.5				PRODU	CTION BLACK —			
41	2	TEA BAR		KEC	66	50		115/00/1					RECEPT STAINL	ACLES WITH ESS STEEL COVERS			
41	1	HOT WATER DISPENSER	F F	KES KES	GC	EC		115/60/1	3.2						45		
45	1	TEA BREWER	F	KES	GC	50		120/60/1	14		-				R-17 R-1	н B-10	B-8 B-7
46	1	BLENDER	F F	KES KES	GC	EC	1/5	120/60/1	3.8		-				440)44"	Ø ^{44"}
48	1	CUP SEALER	F	KES	GC			120/60/1	1								
		OTHER									-						
52 53	1 1	ICE MACHINE WALK-IN COOLER	F	KES KES	GC GC	EC		115/60/1	11.5		-				UNISEX	TLT. 1 105 44"	UNISEX TLT. 2 44" 106
NOTE : NOTE: FOF E.C. TO COC ABBRIVATIO F-FRANCHIS GC- GENER EC- ELECTR HC- HVAC C PC- PLUMB	R LIGHTING, DRDINATE V ON KEY: SEE AL CONTRA ICAL CONTR CONTRACTO ING CONTR	ALARM CLOCKS, DOOR FRAME HEATERS, P VITH ARCHITECT / KITCHEN EQUIPMENT SP CTOR ACTOR IR ACTOR	PORTS & SILLS PECIALIST FOR	LELECTRICAL C	CONTRACTOF TYPE AND H ABBRIVATIC KES-KITCHEI KVS-KITCHEI INSTALL-EQI FIN.CON FI UC- UTILITY	R TO INSTALL & EIGHT PRIOR TO N KEY: N EQUIPMENT S N VENTILATION UIPMENT INSTA INAL CONNECTI COMPANY	WIRE ALL LIGHT F D ROUGH IN. SUPPLIER I SUPPLIER ALLER ION	IXTURES IN	WALK-IN CO	OOLER / FREEZER.			TOILET BLACK WITH E	S AND HALLWAY RECEPTACLES BLACK COVERS		B-5	→B-3 WH-3 →B-4
			\sim	\sim	VLL- VERIFY			\sim	\sim	\sim							
1. SCO	<u>.</u> PE MENTIO	NED ABOVE FOR SUPPLY & INSTALLATIO	ON OF THE FO	DUIPMENTS IS			ORDINATE & VF	RIFY WITH	OWNER/AR		F						
WOI	rk for sup	PLY AND INSTALLATION OF EQUIPMENT.									3						
2. E.C. WITI	to verify H equipme	EXACT VOLTAGE, BREAKER SIZE, WIRE O	UANTITY AN ANY DISCREF	d electrical Pancies shal	L CONNECTI L BE COMM	ON REQUIRED UNICATED WIT) (JUNCTION BO. TH ENGINEER ON	X/OUTLET/ I RECORD P	DISCONNE RIOR TO BII	ct) of Equipmen Dding/Rough-in	τ į			_		חר אי י	
3. E.C.	TO VERIFY	THE REQUIREMENT OF THE SHUNT TRIP B	BREAKER FOR	THE EQUIPM	ENTS WITH T		TURES AND PRO		RDINGLY.	.	}			$(1)^{1}$			OWEK
\sim															JUALE: 1/4		



	T-STAT & REMOTE SENSOR SCHEDULE
	ITEM DESCRIPTION
()	SENSI TOUCH SMART THERMOSTAT (BLACK)

SENSI ROOM SENSOR FOR PROS	

 \bigcirc

	-	SPEAKER SCHEDULE
		ITEM DESCRIPTION
\odot	PENDANT SPKR	JBL CONTROL 65P/T COMPACT FULL-RANGE LOUDSPEAKER
\bigcirc	CEILING SPKR	JBL CONTROL 24C/CT CEILING SPEAKER
0	PORTABLE SPKR	SONOS MOVE

V	ideo surv	EILLANCE SCHEDULE
		ITEM DESCRIPTION
$\bigcirc \ \bigtriangleup$	360 CAM	5MP IP FISHEYE CAMERA, MODEL #MSG-5MP-R-360-IF
∴ → → → → → → ∴ ∴ → → → → →		5MP TURRET DOME CAMERA, MODEL #MSG-5MP-R-IF

DATA MONITOR SCHEDULE ITEM DESCRIPTION Image: See Amazon List Image: See Amazon List							
		ITEM DESCRIPTION					
	ipad Wallmount	see Amazon list					
	IPAD TABLE MOUNT	see Amazon List					
N	overhead Monitor	see Amazon list					
	POS MAIN DESK MOUNT	HECKLER					
	POS KIOSK FRAME	HECKLER					
	IPAD FRAME	HECKLER					

	DATA OUTLET LEGEND
	KDS
►	POS
⊳	АР
	TELCO
(0	WIFI
	HDMI









KEY ELECTRICAL NOTES:



E.C TO COORDINATE THE EXACT LOCATION AND ELECTRICAL REQUIREMENT OF MECHANICAL EQUIPMENTS WITH MECHANICAL CONTRACTOR. PROVIDE THE ELECTRICAL CONNECTION AS PER MECHANICAL EQUIPMENTS REQUIREMENT IN FIELD. INFORM ENGINEER ON RECORD FOR ANY DISCREPANCY.

E.C TO COORDINATE THE EXACT LOCATION AND ELECTRICAL REQUIREMENT OF WALK-IN CONDENSER WITH WALK-IN BOX MANUFACTURER. PROVIDE THE ELECTRICAL CONNECTION AS PER REQUIREMENT IN FIELD. INFORM ENGINEER ON RECORD FOR ANY DISCREPANCY.

(3) EF-1 & EF-2 SHALL BE CONTROLLED BY HOOD CONTROL PANEL AND SHALL BE INTERLOCKED WITH DOAS-1. E.C. TO REFER MECHANICAL DRAWINGS FOR MORE DETAILS.



A	FIELD CHANGES	10/17/23
∕∆	ISSUE FOR PERMIT	03/31/23
NO.	DESCRIPTION	DATE
	REVISIONS	

							A						
		EQUIPMENT	SCHEDU	LE						EQUIPM	ENT PLL	JMBING S	SCHEDULE
				VENDOR			WA	TER	W	'ASTE	NATU	RAL GAS	
INO.		EQUIPMENT DESCRIPTION	PROVIDER	VENDOR	INSTALL	FIN. CON.	НОТ	COLD	DIRECT	INDIRECT	SIZE	BTU	KEMARKS
03	1	HOTPLATE, COUNTERTOP, GAS	F	KES	GC	PC					3/4" NPT	180,000	
04	2	GAS FLOOR FRYER	F	KES	GC	EC/PC					3/4" NPT	120,000	
05	1	PASTA COOKER, GAS	F	KES	GC	EC/PC					3/4" NPT	47,600	
07	2	RICE / GRAIN COOKER	F	KES	GC	EC/PC					3/4" NPT	34,600	
08	1	HAND SINK	F	KES	GC	РС		1/2"	2"				
10	1	WORK TABLE WITH PREP SINK	F	KES	GC	РС		1/2"	2"				
24	1	ONE (1) COMPARTMENT SINK	F	KES	РС	РС		1/2"	2"				
31	1	THREE (3) COMPARTMENT SINK	F	KES	РС	РС		1/2"		(3) 2"			P.C. TO RUN I.W. TO FLOOR SINK
33	1	HAND SINK	F	KES	РС	РС		1/2"	3"				
39	1	UNDERBAR SINK UNIT	F	KES	РС	РС	(2) 1/2"	(2) 1/2"		(4) 1-1/2"			P.C. TO RUN I.W. TO FLOOR SINK
40	1	HAND SINK	F	KES	РС	РС	1/2"	1/2"	2"				
43	1	ICE BIN	F	KES	GC	EC/PC				3/4"			P.C. TO RUN I.W TO FLOOR DRAIN
43	1	HOT WATER DISPENSER	F	KES	GC	EC/PC		1/2"		3/4"			DCW FROM DCW WATER FILTER UNIT
43	1	TEA BREWER	F	KES	GC	EC/PC		1/2"		3/4"			DCW FROM DCW WATER FILTER UNIT
50	1	MOP SINK CABINET	F	KES	GC/PC	GC/PC		1/2"	3"				
52	1	ICE MAKER, CUBE-STYLE	F	KES	GC	EC/PC		1/2"		3/4"			DCW FROM DCW WATER FILTER UNIT
						-							

	ABBREVIATION KEY		ABBREVIATION KEY		
ABBR.	ABBREVIATION DESCRIPTION	ABBR.	ABBREVIATION DESCRIPTION	1.	I A
F	FRANCHISEE	KES	KITCHEN EQUIPMENT SUPPLIER		'E
GC	GENERAL CONTRACTOR	KVS	KITCHEN VENTILATION SUPPLIER		Ст
EC	ELECTRICAL CONTRACTOR	INSTALL	EQUIPMENT INSTALLER		
HC	HVAC CONTRACTOR	FIN. CON.	FINAL CONNECTIONS	2.	N
PC	PLUMBING CONTRACTOR	UC	UTILITY COMPANY		SF
IJ	LOCAL JURISDICTION	VLL	VERIFY WITH LANDLORD		F/ S(

		EQUIPMENT PLUMBING SCHED	ULE		LINES NEED TO RUN AS DIRECT OR INDIRECT, OR TO BE RUN THOUGH A GREASE TRAP BE NO SMALLER THAN STUB-OUT OF THE FIXTURE ITSELF AND TO BE RUN IN A MANNE INTERFERE WITH EQUIPMENT. INDIRECT DRAINS AND CONDENSATE LINES TO RUN TO / DRAIN AND HAVE AN AIR GAP IN ACCORDANCE WITH LOCAL CODES.	DRAIN LINES TO ER AS TO NOT NEAREST FLOOR SINK	TEMPERATURE RANGE AND USAGE (°F)CONDUCTIVITY BTU· IN./ (H· FT2· °F)141 2000.25 0.29	$\begin{array}{c c} \text{MEAN RATING} \\ \text{TEMPERATURE,} \\ \overset{\circ}{\text{F}} \end{array} < 1 \begin{array}{c c} 1 \text{ to} \\ < 1\frac{1}{2} \\ \end{cases} \begin{array}{c} 1\frac{1}{2} \text{ to} \\ < 4 \end{array} \begin{array}{c} 4 \text{ to} \\ < 8 \end{array} > 8 \end{array}$	CODE 2021 C404.5.1. THE HW PIPE SOURCE OF HEATED WATER TO TH SUPPLY PIPE SHALL BE AS PER FOLL
NO.	ITEM DESCRIPTION	MANUFACTURER OR CAT. #	REMARKS	1	4. PLUMBING CONTRACTOR TO SEAL ALL STUB-OUT'S AFTER FINAL CONNECTIONS PER L	DCAL CODES.			SIZE
							- 105-140 0.21-0.28		(INCHES) PUBL
AGF	AIR GAP FITTING	ZURN Z - 1024-4 (OR EQUAL)	3/4" X 1 1/2"		5. PLUMBING CONTRACTOR TO VERIFY IF CLEAN WATER WASTES ARE REQ'D TO EMPTY IF	TO STORM SEWERS.	40-60 0.21-0.27	75 0.5 0.5 1.0 1.0 1.0	1/2"
ET	EXPANSION TANK FOR WH-1 & 2	"AMTROL" THERM-X-TROL #ST-12 (OR EQUAL)	2 GAL, 40 PSIG. 200 DEG. MAX		6. PLUMBING CONTRACTOR IS RESPONSIBLE FOR ENSURING PROPER WORKING CONDITION	ON AND MEETING CURRENT			3⁄4"
FD-1	FLOOR DRAIN - INSTALLED	SIOUX CHIEF 832-35PNR, PVC BODY, BOTTOM OUTLET,	PROVIDE INTERNAL STRAINER	_	LOCAL CODE REQUIREMENTS FOR ANY / ALL EQUIPMENT LISTED ON THESE PLANS AS	'EXISTING'.	2. WATER DISTRIBUTION SYS	21 C404.6.1. HAVING ONE OR MORE	1"
	FLUSH WITH FINISH FLOOR	ADJUSTABLE COLLAR, PRIMER CONNECTION AND 6" ROUND "TYPE B" POLISHED NICKEL BRONZE STRAINER	WHERE REQUIRED VERIFY W/ KES		7. PLUMBING CONTRACTOR TO PROVIDE / INSTALL ALL WATER ROUGH-INS, WALL DRAIN DRAINS, FLOOR SINKS, HUB DRAINS, ETC. AS REQUIRED BY LOCAL CODES.	I CONNECTIONS, FLOOR	RECIRCULATION PUMPS THA SUPPLY PIPE BACK TO THI COLD-WATER SUPPLY PIPE	T PUMP WATER FROM A HEATED-WATER HEATED-WATER SOURCE THROUGH A SHALL BE A DEMAND RECIRCULATION	1¼" (1½" (
FS-1	FLOOR SINK - INSTALLED	FS-1: SIOUX CHIEF 861-3P, 12"x12"x8" DEEP, PVC, LIGHT	PROVIDE INTERNAL STRAINER	_	8. ALL DIMENSIONS ARE TAKEN FROM FINISHED FLOORS AND FINISHED WALLS OR AS NO ARE TO CENTERLINE OF ROUGH-INS OR FAUCET LOCATIONS.	DTED ON PLAN AND	WATER SYSTEM. PUMPS SHA BOTH OF THE FOLLOWING:	LL HAVE CONTROLS THAT COMPLY WITH	2" OR LARGER
FS-2	FLUSH WITH FINISH FLOOR	DUTY SQUARE MAX RECEPTOR WITH 1/2 GRATE FS-2: SIOUX CHIEF 861-Q2328N, 12"x12"x8" DEEP, PVC, HEAVY DUTY RECEPTOR WITH 1/2 S.S. GRATE	FS-2 WITH S.S. STRAINER		9. REFER TO ARCHITECTURAL PLANS AND / OR CONSTRUCTION DOCUMENTS FOR ANY A CONNECTIONS / DRAINS REQUIRED TO MEET LOCAL CODES.	DDITIONAL WATER	a. THE CONTROL SHALL ST FROM THE ACTION OF SENSING THE PRESENCE FLOW OF HOT OR TEM	ART THE PUMP UPON RECEIVING A SIGNAL A USER OF A FIXTURE OR APPLIANCE, OF A USER OF A FIXTURE OR SENSING THE PERED WATER TO A FIXTURE FITTING OR	5. AS PER INTERNATIONAL ENERGY THE CONTROLS ON PUMPS T WATER HEATER AND A HEA
WH-1 WH-2	TANKLESS WATER HEATER	NAVIEN NPE-240-A2 WITH 2-PIPE DIRECT VENT EXHAUST. MAX. GAS INPUT IS 199,900 BTU, (OR EQUAL)	3/4" GAS CONNECTIONS, 3/4" HOT & COLD CONNECTIONS. 11.1 GPM MAX. FLOW RATE		10. ALL EXPOSED GAS PIPING SHALL BE PAINTED. VERTICAL SHALL BE PAINTED TO MATCH AND GAS PIPE ON THE ROOF PAINTED YELLOW.	I THE BUILDING	APPLIANCE. b. THE CONTROL SHALL L ENTERING THE COLD-WA	IMIT THE TEMPERATURE OF THE WATER TER PIPING TO 104°F (40°C).	NOT GREATER THAN 5 MINUTE
WH-3 WH-4	MINI TANKLESS WATER HEATER	SoBigFeiji B09Z2NGT93 - 3000 WATTS, 120/1/60, 32 AMP CIRCUIT BREAKER REQUIRED, CHORD AND PLUG COLOR BLACK (OR EQUAL)	1/2" WATER PIPING CONNECTIONS 2.0 GPM MAX. FLOW RATE WEIGHT 4.0 LBS.		11. GAS PIPING ON ROOF SHALL HAVE PLASTIC ROOF SUPPORT. NO WOOD SLEEPERS ARE	ALLOWED.			
WНА	WATER HAMMER ARRESTOR	PRECISION PLUMBING PRODUCTS TYPE SC (OR EQUAL)	PROVIDE ACCESS PANEL						
FCO	FLOOR CLEAN OUT	ZURN Z1400 (OR EQUAL)	FLUSH WITH FINISH FLOOR		EQUIPMENT PLUMBING SCHEDU	LE			
WCO	WALL CLEAN OUT	ZURN Z1441 (OR EQUAL)			FIXTURES PROVIDED AND INSTALLED BY THE PLUMBING CONTRACTOR (RE-USE EXISTING IF PL	RESENT AND IN WORKING ORDER)	MARK SERVICE METER SIZE	MIN. FLOW MAX. FLOW HOUSING PRESSUR	
PRV	PRESSURE REDUCING VALVE	WATTS SERIES LFN45B LEAD FREE WATER PRESSURE REDUCING VALVE (OR FOLIAL) CAST	MAX WORKING PRESSURE: 400		NO. ITEM DESCRIPTION	MANUFACTURER OR CAT. #	M COLD WATER 3/4	RATE (GPM) RATE (GPM) MATERIAL @ 30GPN 3/4 35 BRONZE 6.5	5 BADGER RECORDALL M35
		COPPER SILICON ALLOY BODY CONSTRUCTION,	REDUCED PRESSURE RANGE:						
		STAINLESS STEEL INTEGRAL STRAINER,	25 TO 75 PSI, STANDARD		- PERFORATED STRAINER WITH 1-1/4" OFFSET TAILPIECE	KOHLER #7715	NOTE - WATER SUBMETER SHALL BE I	ROVIDED BY TENANT.	
		EXPANSION BYPASS AND SEALED SPRING CAGE.	PRESSURE SETTING. SUPSI		- CHROME-PLATED 3/8" SUPPLY WITH ANGLE STOP AND WROT ESCUTCHEON OFFSET	BRASS CRAFT #SCR-1912-A			
мхν	UNDER SINK	WATTS LEMMV SERIES (OR EQUAL): LEAD FREE			- CHROME BRASS P-TRAP, 17 GA, WITH ESCUTCHEON	DEARBORN BRASS #707	_		
	THERMOSTATIC MIXING		VALVE SHALL HAVE INTEGRAL		- WALL MOUNTED CARRIER WITH HANGER PLATE, CONCEALED ARMS	ZURN OR JOSAM	-		
	VALVE		CHECK STOPS. CONCEAL IN		- FAUCET WITH AERATOR, 6" HANDLE, 05 GPM FLOW, ON 4" CENTERS	KOHLER K-13468			
			WALL CAVITI.		- ASSE ZW1070 TEMPERATURE LIMIT VALVE.	ZURN ZW-1070	GREASE INTER	LEPTORS SIZING	
RPZ	REDUCED PRESSURE	VALVE ASSEMBLY (OR FOLIAL)	LEAD-FREE CAST COPPER SILICON ALLOY (1/2" TO 2")		- ADA COMBINATION OFFSET TRAP AND SUPPLY WRAP PROTECTOR KIT.				
	VALVE BACK FLOW		MAX. WORKING PRESSURE: 175				ITEM DESCRIPTION	OTY. SIZE DFU DFU'S	
	PREVENTER		PSI		50 MOP BASIN - ONE-PIECE CONSTRUCTION, 24" X 24" X 10", FLOOR-MOUNTED TYPE	SEE EQUIPMENT SCHEDULE	3CS-1 3 COMP SINK	1 3" 5 5	
BFP1	BACK FLOW PREVENTION	WATTS SERIES 9D DUAL CHECK VALVE	MIN. WORKING PRESSURE: 25		- FAUCET WITH PAIL HOOK AND HOSE END, VACUUM BREAKER, INTEGRAL STOPS	FIAT 83-AA	FS-1 FLOOR SINK	1 3" 5 5	
	ASSEMBLY FOR ICE MAKER	ASSEMBLY WITH ATMOSPHERIC PORT (OR EQUAL)	PSI; MAX. WORKING PRESSURE: 175 PSI		- HOSE AND HOSE BRACKET	FIAT 832-AA	TOTAL DFU:	10	
CD-1	FAST TRACK POLYMER	SIOUX CHIEF 865-S3 & 865-S8 (OR EQUAL) CLASS B. LOADS	USE WITH 3" HUB AND 4" SPIGOT SEWER		- MOP HANGER, 24" X 3", 18 GA	FIAT 889-CC			
CD-2	WITH S.S. GRATE	UV INHIBITORS AND DOME BOTTOM STRAINER	AND PIPE DRAIN. #4 REBAR TIE CLIPS FOR		- VINYL BUMPER GUARD	FIAT 889-CC	GREASE INTERCEPTOR IS REQUIRED.	EXISTING GREASE INTERCEPTOR IS	
				_	- SILICON SEALANT	FIAT 833-AA	2500 GALLONS		
RCP-1	HOT WATER RECIRC. PUMP	GRUNDFOS	SET AQUA-STAT WITH SET POINT 10 DEGREES BELOW SYSTEM SUPPLY TEMP. INSTALL RECIRC PUMP PER MANUFACTURERS REQUIREMENTS		WC-1 WATER CLOSET - ADA, VITREOUS CHINA, FLUSH TANK, SIPHON JET, ELONGATED BOWL	, KOHLER MODEL #K-31621-7	_		
			▼		12 KOUGHING, FLOOK MOUNTED, WATER SAVER TYPE, SEAT 19 A.F.F BLACK		_		
					- BLACK SOLID PLASTIC SEAT, OPEN FRONT, CHECK HINGE - BLACK	KOHLER LUSTRA, K-4650-7	-		
					- CHKOIVIE-PLATED 5/8 SUPPLY WITH ANGLE STOP AND WROT WITH ESCUTCHEON	вказу скағт #SCK-1912-А	-		

PLUMBIN	IG LEGEND	PLUI	MBING ABBREVIATIONS
140°	DOMESTIC COLD WATER PIPING	ABBR.	ABBREVIATION DESCRIPTION
120°	DOMESTIC HOT WATER FIFING (140 F) DOMESTIC HOT WATER FIFING (120°F)	DHW	HOT WATER
	- DOMESTIC HOT WATER RETURN PIPING	DCW	COLD WATER
<u>_</u>		DW	DIRECT WASTE
	SANITARY VENT PIPING	IW	INDIRECT WASTE
<u> </u>	- SANITARY PIPING BELOW FLOOR	FS	FLOOR SINK
— — GSAN— —	GREASE PIPING BELOW FLOOR	FD	FLOOR DRAIN
EX.SAN	EXISTING SANITARY PIPING	HD	HUB DRAIN
— — EX.GSAN — —	EXISTING GREASE SANITARY PIPING	CD-1 & 2	5" CHANNEL DRAIN
\sim) P-TRAP	SPS	SEE PLUMBING SCHEDULE
		FIN.CON.	FINAL CONNECTIONS
0		COTG	CLEANOUT TO GRADE
	PIPE DROP	A.F.F.	ABOVE FINISHED FLOOR
		I.E.	INVERT ELEVATION
	CLEANOUT	INSTALL	EQUIPMENT INSTALLER
	PLUGGED OUTLET/CLEANOUT	FCO	FLOOR CLEANOUT
		WCO	WALL CLEANOUT
		F.F.E.	FINISHED FLOOR ELEVATION
	SECONDARY BFP	EX.	EXISTING
		DCO	DOUBLE CLEAN OUT
	GAS SHUT-OFF VALVE		

ENERGY CONSERVATION NOTES

PLUMBING GENERAL NOTES

PLUMBING ROUGH-INS AND CONNECTIONS SHOWN ON THESE PLANS ARE FOR FOOD SERVICE FIXTURES) Equipment provided by the equipment vendor or by outside parties listed as 'vendor' or THERS'. ALL INFORMATION PROVIDED ON THESE PLANS ARE TO BE VERIFIED BY THE PLUMBING ITRACTOR THRU THE SPECIFICATIONS MANUAL PROVIDED BY THE EQUIPMENT VENDOR OR BY CONSULTING APPROPRIATE OUTSIDE PARTIES .

IBING CONTRACTOR / FITTER IS RESPONSIBLE FOR SUPPLYING ALL CALKING, PIPING AND FITTINGS ESSARY TO MAKE ALL FINAL PLUMBING AND GAS CONNECTIONS TO EQUIPMENT PER MANUFACTURERS CIFICATIONS, INCLUDING BUT NOT LIMITED TO: SECURING SINK UNITS TO WALLS AND INSTALLING JCETS AND DRAINS AS REQUIRED PER LOCAL CODES. PROVIDING / INSTALLING PRESSURE REDUCING VALVES, INOID VALVES, BACK FLOW PREVENTORS, WATER HAMMER ARRESTORS, ETC. PROV<mark>IDI</mark>NG / ATTACHING ALL DIRECT AND INDIRECT DRAINS, TAIL PIECES, GATE VALVES, TRAPS

PLUMBING CONTRACTOR IS TO VERIFY ALL LOCAL HEALTH AND PLUMBING CODES TO CONFIRM IF WASTE

ALL DOMESTIC WATER PIPING ABOVE GRADE SHALL BE INSULATED 3. AS PER INTERNATIONAL ENERGY CONSERVATION CODE 2021, C404.6.1 WITH FIRE-RETARDANT, FACTORY-APPLIED JACKET. PROVIDE COLD WATER PIPING WITH FACTORY-APPLIED VAPOR BARRIER. INSULATION REQUIREMENT SHOULD COMPLY WITH 2021 INTERNATIONAL ENERGY CONSERVATION CODE SECTION C404.4 REFER BELOW TABLE C403.12.3.

	MINIMUM PIPE INSULATION THICKNESS							
	FLUID OPERATING TEMPERATURE RANGE AND USAGE (°F)	INSULATION CONDUCTIVITY			NOMINAL PIPE OR TUBE SIZE (INCHES)			
		CONDUCTIVITY BTU· IN./ (H· FT2· °F)	MEAN RATING TEMPERATURE, °F	<1	1 to < 1½	1½ to < 4	4 to < 8	
	141-200	0.25-0.29	125	1.5	1.5	2	2	
	105-140	0.21-0.28	100	1.0	1.0	1.5	1.5	
	40-60	0.21-0.27	75	0.5	0.5	1.0	1.0	

AS PER INTERNATIONAL ENERGY CONSERVATION CODE 2021, C404.6.1
HEATED-WATER CIRCULATION SYSTEMS SHALL BE PROVIDED WITH A
CIRCULATION PUMP. THE SYSTEM RETURN PIPE SHALL BE A DEDICATE
RETURN PIPE OR A COLD WATER SUPPLY PIPE. CONTROLS FOR
CIRCULATING HOT WATER SYSTEM PUMPS SHALL START THE PUMP
BASED ON THE IDENTIFICATION OF A DEMAND FOR HOT WATER
WITHIN THE OCCUPANCY. THE CONTROLS SHALL AUTOMATICALLY
TURN OFF THE PUMP WHEN THE WATER IN THE CIRCULATION LOOP I
AT THE DESIRED TEMPERATURE AND WHEN THERE IS NO DEMAND
FOR HOT WATER.

4. HW SYSTEM PIPING IS DESIGNED AS PER MAXIMUM ALLOWED PIPE LENGTH METHOD AS PER INTERNATIONAL ENERGY CONSERVATION CODE 2021 C404.5.1. THE HW PIPE LENGTH FROM THE NEAREST SOURCE OF HEATED WATER TO THE TERMINATION OF THE FIXTURE SUPPLY PIPE SHALL BE AS PER FOLLOWING TABLE.

NOMINAL PIPE SIZE	MIXIMUM PIPING LENGTH (FEET)		
(INCHES)	PUBLIC LAV	OTHER FIXTURES	
1/2"	2'	43'	
3⁄4"	0.5'	21'	
1"	0.5'	13'	
11⁄4"	0.5'	8'	
1½"	0.5'	6'	
2" OR LARGER	0.5'	4'	

Y CONSERVATION CODE 2021 C404.6.3, THAT CIRCULATE WATER BETWEEN A EATED-WATER STORAGE TANK SHALL UMP FROM HEATING CYCLE STARTUP TO JTES AFTER THE END OF THE CYCLE.

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GENERAL NOTES:

- CONTRACTOR TO AVOID CUTTING INTO THE STRUCTURAL ELEMENTS. CONTRACTOR SHALL SPRAY PAINT THE FLOOR AND HAVE LANDLORD INSPECT AND APPROVE PRIOR TO ANY SAW CUTTING OF THE SLAB.
- CONTRACTOR TO VERIFY ON FILED THAT THE SLAB LEAVE OUT POUR BACK – ALL CONCRETE WORK REQUIRED TO INSTALL UNDER FLOOR PLUMBING OR AT SIDEWALKS SHALL BE REPLACED WITH 5" THICK 3500 PSI CONCRETE WITH #3 REINFORCING AT 16" ON CENTER EACH WAY. PROVIDE 18" LONG #3 DOWELS DRILLED AND EPOXY INTO THE EXISTING SLAB WITH A MINIMUM OF 9" PENETRATION AT 16" ON CENTER AT ALL SLAB EDGE CONDITIONS. SUB BASE TO BE COMPACTED TO MEET MINIMUM CODE STANDARDS WITH MINIMUM 95% COMPACTION. VAPOR BARRIER SHALL BE PLACED BELOW THE SLAB AND TUCKED A MINIMUM OF 4" UNDER THE EXISTING SLAB.
- IF CONTRACTOR CONNECTS TO ANY EXISTING SANITARY LINES OR GREASE WASTE LINES; IT IS CONTRACTOR' S RESPONSIBILITY TO VERIFY THE EXISTING LINES ARE VIABLE, CLEAN AND CONNECTED PROPERLY.
- . PROVIDE TRAP PRIMER/ SEAL ON FLOOR DRAIN AS PER LOCAL JURISDICTIÓN.

SANITARY KEYED NOTES:

- CONTRACTOR TO VERIFY EXACT LOCATION OF FLOOR DRAIN WITH K.E.S.
- ② CONNECT NEW 4" SANITARY WASTE PIPING TO 6" EXISTING SANITARY STUB-UP IN SPACE. CONTRACTOR TO FIELD VERIFY EXACT SIZE, INVERT AND LOCATION. FOR MORE DETAILS REFER CIVIL PLAN.
- ③ CONNECT NEW 3" GREASE WASTE PIPING TO 6" EXISTING GREASE MAIN. CONTRACTOR TO FIELD VERIFY EXACT SIZE, INVERT AND LOCATION OF THE EXISTING GREASE PIPING FOR TIE-IN CONNECTION. FOR MORE DETAILS REFER CIVIL PLAN.

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- <u>GENERAL NOTES:</u>
 1. CW/HW PIPING TO BE PROVIDED WITH INSULATION AS PER IECC 2021
 2. PROVIDE BRANCH PRV IF PRESSURE EXCEEDS 80 PSI.
 3. CONTRACTOR TO FIELD VERIFY FEASIBILITY OF SLAB PENETRATION AS PER STRUCTURAL REQUIREMENT.
- 4. PROVIDE ACCESS PANELS FOR WATER HAMMER ARRESTOR, CLEANOUTS & SHUT-OFF VALVES AS REQUIRED.
- 5. ANY ROOF PENETRATION SHALL BE PERFORMED BY LANDLORD'S ROOFERS AT LANDLORD OPTION, A BONDED ROOFER APPROVED IN ADVANCE BY LANDLORD.

WATER AND GAS PIPING KEYED NOTES:

- 1 ROUTE NEW 1-1/2" CW PIPING WITH SHUT OFF VALVE AND TIE-INTO THE EXISTING STUB OUT. CONTRACTOR TO FIELD VERIFY SIZE AND LOCATION OF EXISTING WATER LINE AND STUB OUT FOR THE TENANT SPACE. PROVIDE NEW BACKFLOW PREVENTER & WATER METER AS PER LOCAL CODE.
- PROVIDE ASSE 1070 OR SIMILAR APPROVED TEMPERING VALVE FOR LAVATORIES AND HAND SINK. SET AT TEMPERATURE TO A MAXIMUM 110 F
- (3) NO TAP OFF SHOULD BE TAKEN BEFORE BFP.
- A ROUTE NEW 2½" GAS PIPING AND CONNECT IT TO NEW GAS METER. CONTRACTOR TO FIELD VERIFY SIZE, LOCATION, PRESSURE AND CAPACITY OF GAS METER WITH LANDLORD AND UTILITY COMPANY.

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ALL FIELD CONDITIONS AND DIMENSIONS ARE TO BE FIELD VERIFIED PRIOR TO COMMENCEMENT OF THE WORK. ALL DISCREPANCIES ARE TO BE BROUGHT TO THE ATTENTION OF THE ARCHITECT BEFORE PROCEEDING WITH THE WORK THESE DRAWINGS ARE THE PROPERTY OF JOHN WILLIAM LISTER ARCHITECT. THEY ARE NOT TO BE REPRODUCED IN PART OR IN WHOLE WITHOUT THE CONSENT OF JOHN WILLIAM LISTER ARCHITECT. THEY ARE TO BE USED ON THE PROJECT NOTED HEREON ONLY.

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2) INSULATE THE COMBUSTION AIR PIPE IN CONDITIONED SPACES