

REGAN YOUNG ENGLAND BUTERA

REFERENDUMS • ENGINEERING • ARCHITECTURE • DESIGN



ADDENDUM - 02

456 HIGH ST. • MT. HOLLY, NJ 08060 USA
(609) 265-2652 • 21AI00912100 • www.RYEBREAD.com

DATE: Tuesday, 18 November 2025

FROM: Angelo P. Butera, AIA

VIA: Facsimile

SUBJECT:

RYEBREAD Project #5760C

MAGOWAN ELEMENTARY SCHOOL KITCHEN
ALTERATIONS

NJDOE # 05-1280-050

This addendum is issued to clarify, correct or supplement the Documents as originally issued and will become a part of the Contract. Receipt thereof shall be acknowledged by Bidders in space provided in the Form of Bid. Failure to acknowledge this Addendum on the official Form of Bid may be cause for rejection of Bid.

- 2.01. Clarification: Section 002000 - Form of Bid, Bidder shall correlate all required documents in the order listed in the "Documents Accompanying Bid" as found on the Form of Bid and place an "X" in the box next to each item provided. Failure to provide all required documents and required number of copies may be cause for disqualification and rejection of bid.
- 2.02. Clarification: Wherever "Rooftop" is noted in the documents, it shall be meant to mean "on the roof of the building."
- 2.03. Replace: Section 114000 – Foodservice Equipment, 2.10.A.18 Dishwasher in its entirety with the following:
 - 18 Dishwasher.
 - a. Basis of Design: Model CL44-BAS Electric as manufactured by HOBART.
 - 1) Deliming system.
 - 2) Drain water tempering kit.
 - 3) Two (2) E-Series adjustable vent hood.
 - 4) Table limit switch.
 - 5) WS-80 water softener.
 - 6) X2 sheet pan dish racks.
 - b. Architect's approved equal.
- 2.04. Replace: Section 237434 – Sequence of Operations for HVAC Controls in its entirety with the attached Section 237434 Revised Addendum-02 consisting of five pages.
- 2.05. Replace: Six Sheets HD-100 thru H-300 with the attached six sheets HD-100 thru H-300 dated 18 Nov 25.
- 2.06. Replace: Four Sheets ED-100 thru E-102 with the attached six sheets ED-100 thru E-102 dated 18 Nov 25.
- 2.07. The list of current plan holders and addenda can be found at www.ryebread.com under the "Bidding" tab.

Including this page, Addendum 2 consists of (17) page(s).

END OF ADDENDUM 02

SECTION 237434 - SEQUENCE OF OPERATIONS FOR HVAC CONTROLS – **REVISED**
ADDENDUM-02

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.
- B. Where items of the General Conditions are repeated in this Section of the Specifications, it is intended to qualify or to call particular attention to them; it is not intended that any other parts of the General Conditions shall be assumed to be omitted if not repeated herein.
- C. This Section applies equally and specifically to all HVAC Sections of the Specifications.
- D. Section 018100 – Special Requirements for Mechanical and Electrical Work shall apply to this Section.
- E. Section 230000 – Special Requirements for HVAC Work.
- F. Section 237432 – Range Hood Exhaust Systems shall apply to this Section.
- G. Section 237433 – Rooftop DOAS Units shall apply to this Section.

1.2 SUMMARY

- A. This Section includes control sequences for HVAC systems, subsystems, and equipment.

1.3 DEFINITIONS

- A. CV: Constant Volume.
- B. DDC: Direct Digital Control.
- C. HMI: Human-Machine Interface
- D. VAV: Variable Air Volume.
- E. RH: Relative Humidity.
- F. DOAS: Dedicated Outdoor Air System.
- G. DCV: Demand Control Ventilation.

MAGOWAN KITCHEN ALTERATIONS
EDGEWATER PARK BOE
REGAN YOUNG ENGLAND BUTERA, PC PROJECT #5760C

1.4 GENERAL

- A. All setpoints specified are intended as initial values and shall be adjusted and optimized by the control system manufacturer throughout the warranty period.
- B. All setpoints shall be user adjustable, whether indicated as adjustable or not, by contacting the manufacturer.

1.5 SUMMARY

- A. The control package shall be configured as a Demand Control Ventilation (DCV) System, that regulates DOAS unit airflow rates (supply, return, outside air and relief) based on occupancy schedule and range hood exhaust that is in operation. While DCV is inactive, DOAS will operate as RTU to condition the space.
- B. The scope shall include all necessary sensors, controllers, wiring, hardware, software, firmware, programming, interlocks and servicing for a complete and functional system that satisfies the specified sequence of operations.
- C. The range hood exhaust system, rooftop DOAS unit and associated controls shall be the product of one manufacturer: CaptiveAire or approved equal.

1.6 SUBMITTALS

- A. The manufacturer shall supply complete computer-generated submittal drawings, including hood section view(s) and hood plan view(s). These drawings must be available to the engineer, architect, and owner for their use in construction, operation, and maintenance.

1.7 QUALITY ASSURANCE

- A. Control package shall be listed by ETL and complies with UL508A Standard and CAN/CSA C22.2, No. 14-05 Standards.
- B. ECPM03 Circuit Board shall be listed by ETL and complies with UL 61010-1 Standard and CAN/CSA C22.2, No. 61010-1 Standards.

1.8 WARRANTY

- A. Warrant all work in accordance with the general conditions for two (2) years from date of substantial completion. During the warranty period, the manufacturer shall be responsible for all necessary firmware/software revisions required to provide a complete and workable system consistent with the letter and intent of the Sequence of Operations section of the specifications. The manufacturer shall install operating system updates issued by the manufacturer(s) throughout the warranty period. Control system failures during the warranty period shall be adjusted, repaired, or replaced at no additional cost or reduction in service within 24 hours, during nor-

mal business hours.

1.9 CONTROL CABINET

- A. The DCV control cabinet shall be mounted on the side of the kitchen exhaust hood, housed in a stainless steel NEMA 1 enclosure with a finish to match hood. ~~Each Hood DCV control cabinet shall be mounted on side of teacher's demonstration hood, in stainless steel enclosure of NEMA.~~
- B. The kitchen hood DCV system shall include a cabinet-mounted LCD screen interface that provides control of the exhaust fan and hood lights, gas valve reset, programmable scheduling, adjustable control setpoints, Max Air Override function, Cool Down mode, and input from a wall-mounted room temperature sensor. The LCD screen shall display clear, descriptive plain text to explain system functions and current values.
- C. The DOAS unit shall be equipped with gasketed service doors to provide access to the unit's local electrical controls. The system shall include a single space-mounted HMI integrated with the space sensor, which continuously monitors temperature, relative humidity, and carbon dioxide levels within the kitchen area. The sensor outputs shall be processed by the controller to maintain proper ventilation and indoor air quality.
- D. The HMI screens shall display descriptive plain text explaining the functions or values.

1.10 SYSTEM OPERATION

- A. The rooftop Dedicated Outdoor Air System (DOAS) unit shall operate continuously during school hours to support full kitchen service and occupancy. During periods when Demand Control Ventilation (DCV) is inactive (i.e., when the **range** exhaust hood is off), the DOAS shall function as a standard rooftop unit, providing ventilation based on **building code**, space temperature and humidity requirements. When the kitchen exhaust hood is turned on, a hardwired signal shall initiate DCV active mode, prompting the DOAS to adjust airflow to provide adequate makeup air, **while simultaneously reducing the exhaust fan capacity at the DOAS**. Airflow modulation shall be governed by the space-mounted temperature, humidity and **pressurization sensors** and the operational status of the exhaust hood fan.
- B. The Rooftop DOAS Unit and Range Hood Exhaust Fan shall be interlocked to shut down through general alarm condition of building fire alarm system, and when any of the range hood ansul systems are activated.
- C. Rooftop Unit shall be furnished complete with controls for all unit functions, including cooling, heating, economizer control, liquid subcooling and hot gas reheat, variable air volume control of supply and relief fans, etc. The Unit Controls shall be supervised and controlled by manufacturers Net based Controls(CASLink) for all set points and scheduling. Unit shall support parallel supervision only by industry standard open protocols including but not limited to MODBUS, BACNET and LON and shall be integrated into **existing** Building Automation System for monitoring capabilities.

D. Occupied RTU/DOAS Mode:

1. When the system is in the occupied mode, the supply air fan and return/exhaust fan shall be energized and run continuously.
2. The outside air and exhaust air dampers shall open. The return air damper shall close.
3. The unit shall sequence indirect fired furnace and DX cooling functions as required to maintain neutral discharge air temperature (72°F adj).
4. If exhaust air relative humidity rise above 52%, leaving air temperature at evaporator shall gradually depress while discharge air temperature is maintained by modulating hot gas reheat system.

E. Dehumidification Cycle:

1. When space RH is equal to or less than 50% (adj.), the unit shall maintain its nominal leaving air temperature at the cooling coil. The cooling coil leaving air temperature setpoint shall be controlled based on space temperature.
2. When space exceeds 52% RH at any air terminal, the cooling coil outlet temperature shall be gradually reduced towards a full dehumidification setpoint of 55 deg F (adj.), and the space temperature shall be maintained by the hot gas reheat coil.

F. Discharge Temperature Control:

1. The unit shall modulate the hot gas reheat coil, gas fired furnace, or the mechanical refrigeration system, or engage the economizer cycle as required to maintain the unit discharge air temperature setpoint. The unit shall implement factory optimized heating, cooling and economizer control algorithms to maximize energy conservation based on deviation between space temperature and setpoint.

G. Economizer Mode:

1. When a call for cooling is placed, the unit shall compare outside enthalpy to space enthalpy. If outdoor conditions are the same or more suitable than indoor conditions, the unit shall enter economizer mode.
2. The outside air damper, return air damper and relief air damper shall modulate as required to maintain setpoints indicated.

H. Filter Monitoring: The system shall incorporate static pressure differential gauges and a run timer on the supply fan, indicating the number of hours the fan and filter and in use, and generate an alarm when replacement is necessary.

I. Fan Status Monitoring: The system shall monitor status of each supply, room fan and range hood exhaust fan; and compare against command state. When status does not agree with command state, an alarm shall be generated.

J. Heating and Cooling Equipment Monitoring: The system shall monitor status of heating and cooling equipment; and generate an alarm when status does not agree with command state.

MAGOWAN KITCHEN ALTERATIONS
EDGEWATER PARK BOE
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PART 2 - PRODUCTS (Not Applicable)

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine areas and conditions under which the system is installed. Do not proceed with work until unsatisfactory conditions have been corrected in a manner acceptable to installer.
- B. Install in accordance with the manufacturer's instructions, drawings, written specifications, manufacturer's installation manual, and all applicable building codes.

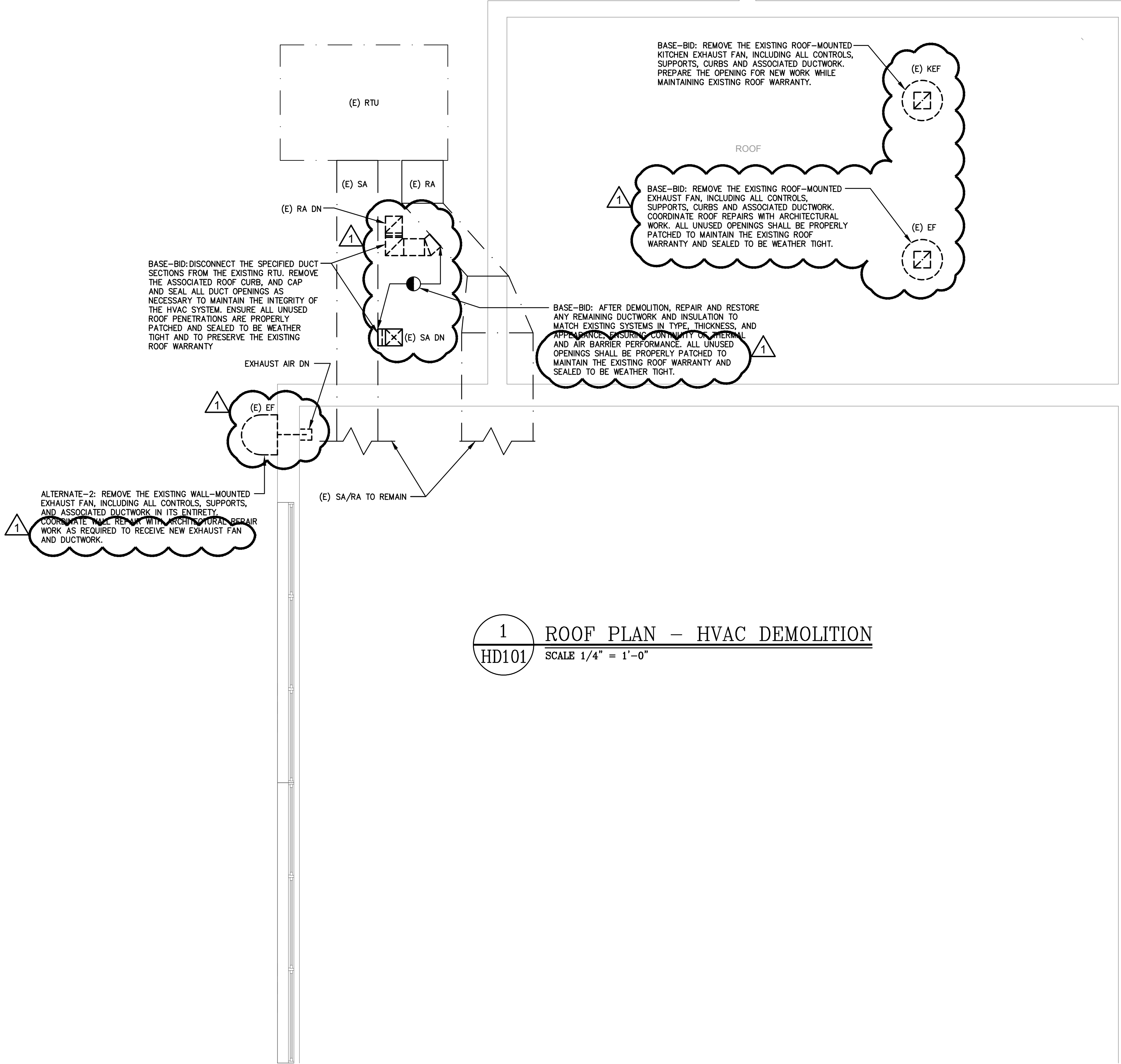
3.2 SYSTEM START-UP AND OWNER TRAINING

- A. System start-up and owner training shall be performed by a factory trained Service Technician, and commissioning reports will be provided to Engineer.

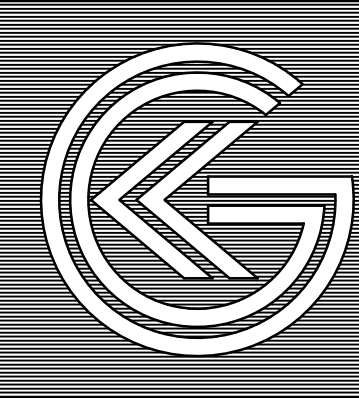
END OF SECTION 237434

DRAWING REFERENCE SCALE. VERIFY ACTUAL SIZE AND ADJUST AS REQUIRED

0" 1" 2"



1 ROOF PLAN - HVAC DEMOLITION
HD101 SCALE 1/4" = 1'-0"



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Frank Thidali, P.E.
Professional Engineer
NJ 38656



November 17, 2025 2:59:03 p.m.
Drawing: 3207 HD-100.DWG

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NJDOE SP #05-1280-050

PROJECT TITLE & ADDRESS:
MAGOWAN KITCHEN
MAGOWAN ELEMENTARY SCHOOL
LOT 1 / BLOCK 705
405 CHERRIX AVENUE
EDGEWATER PARK, NEW JERSEY
08010

OWNER'S ADDRESS:
EDGEWATER PARK TOWNSHIP BOE
25 WASHINGTON AVENUE
EDGEWATER PARK, NEW JERSEY
08010

PROJECT NO.: **5760C**

REVISION DATE:	
11/18/25	ADD-02

DRAWING DATE:	20 JUNE 2025
PRINT DATE:	
DRAWN BY:	
SHEET TITLE:	ROOF PLAN - HVAC DEMOLITION

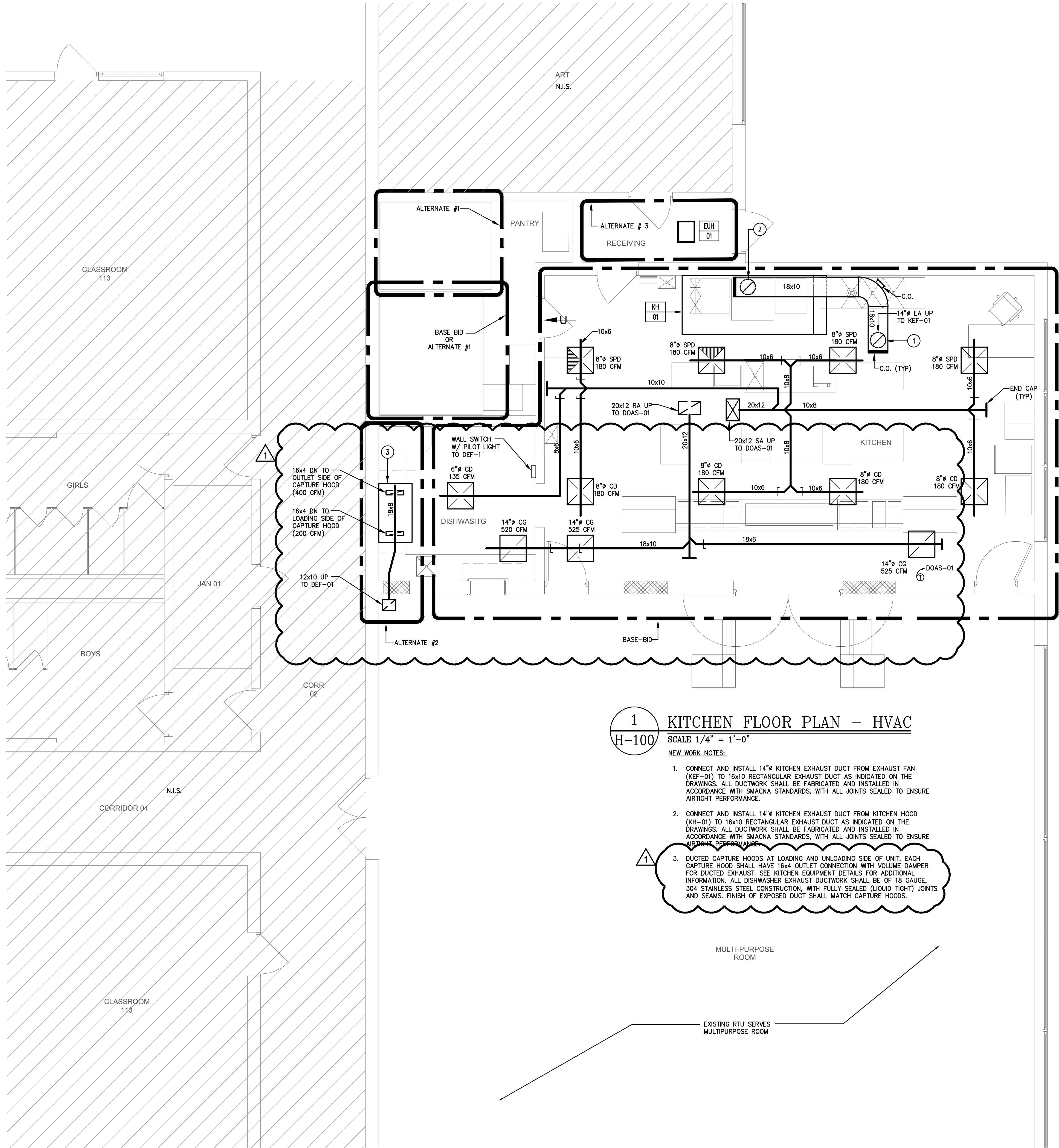
HD-101

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DRAWING REFERENCE SCALE. VERIFY ACTUAL SIZE AND ADJUST AS REQUIRED.

0" 1" 2"

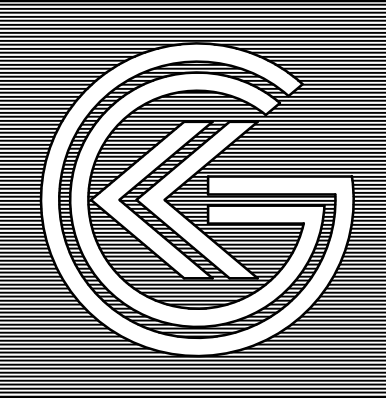
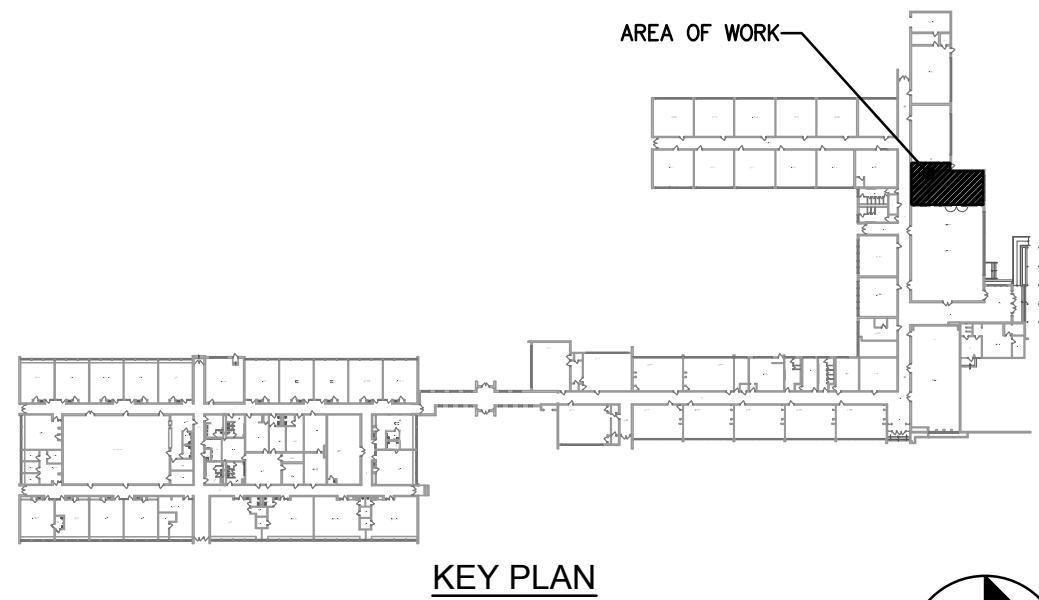


1
H-100
KITCHEN FLOOR PLAN - HVAC
SCALE 1/4" = 1'-0"

NEW WORK NOTES:

- CONNECT AND INSTALL 14" KITCHEN EXHAUST DUCT FROM EXHAUST FAN (KEF-01) TO 16x10 RECTANGULAR EXHAUST DUCT AS INDICATED ON THE DRAWINGS. ALL DUCTWORK SHALL BE FABRICATED AND INSTALLED IN ACCORDANCE WITH SMACNA STANDARDS, WITH ALL JOINTS SEALED TO ENSURE AIRTIGHT PERFORMANCE.
- CONNECT AND INSTALL 14" KITCHEN EXHAUST DUCT FROM KITCHEN HOOD (KH-01) TO 16x10 RECTANGULAR EXHAUST DUCT AS INDICATED ON THE DRAWINGS. ALL DUCTWORK SHALL BE FABRICATED AND INSTALLED IN ACCORDANCE WITH SMACNA STANDARDS, WITH ALL JOINTS SEALED TO ENSURE AIRTIGHT PERFORMANCE.

- 1
- DUCTED CAPTURE HOODS AT LOADING AND UNLOADING SIDE OF UNIT. EACH CAPTURE HOOD SHALL HAVE 16x4 OUTLET CONNECTION WITH VOLUME DAMPER FOR DUCTED EXHAUST. SEE KITCHEN EQUIPMENT DETAILS FOR ADDITIONAL INFORMATION. ALL DISHWASHER EXHAUST DUCTWORK SHALL BE OF 18 GAUGE, 304 STAINLESS STEEL CONSTRUCTION, WITH FULLY SEALED (LIQUID TIGHT) JOINTS AND SEAMS. FINISH OF EXPOSED DUCT SHALL MATCH CAPTURE HOODS.



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November 17, 2025 2:58:15 p.m.
Drawing: 3207 H-100.DWG

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PROJECT NO.: **5760C**

REVISION DATE:	
11/18/25	ADD-02

DRAWING DATE:	20 JUNE 2025
PRINT DATE:	
DRAWN BY:	
SHEET TITLE:	KITCHEN FLOOR PLAN- HVAC

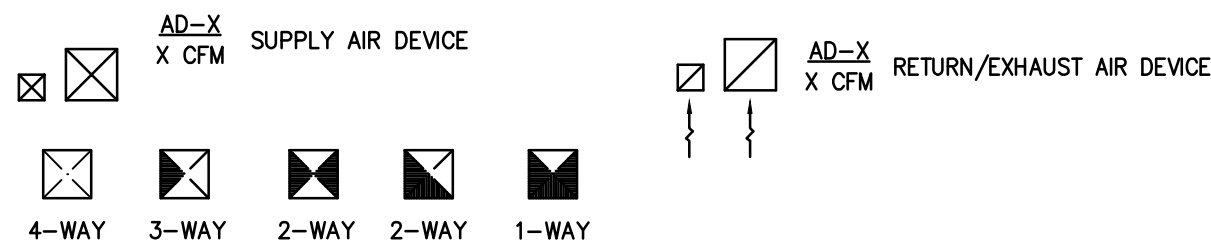
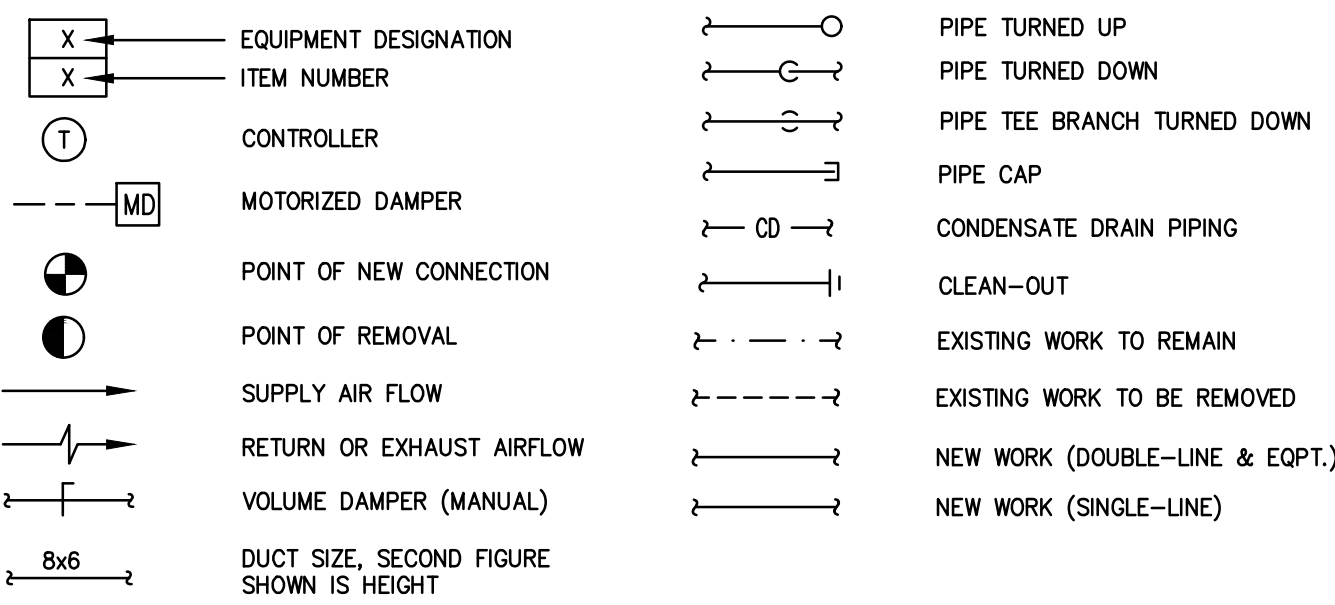
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DRAWING REFERENCE SCALE. VERIFY ACTUAL SIZE AND ADJUST AS REQUIRED

ABBREVIATIONS

&	AND
AFR	ABOVE FINISHED ROOF
CAL	CAPTURE AREA LENGTH
CD	CEILING DIFFUSER
CFM	CUBIC FEET PER MINUTE
CG	CEILING GRILL
CO	CLEAN OUT
CR	CLEAN REGISTER
DEF	DISHWASHER EXHAUST FAN
DOAS	DEDICATED OUTDOOR AIR SYSTEM
FC	FLEXIBLE CONNECTOR
FAI	FRESH AIR INTAKE
DIA.	DIAMETER
DN	DOWN
DOAS	DEDICATED OUTDOOR AIR SYSTEM
DP	DROP
EF	EXHAUST FAN
EXIST./(E)	EXISTING
ER	EXHAUST REGISTER
ESP	EXTERNAL STATIC PRESSURE
GA	GAUGE
HP	HORSE POWER
Hz	HERTZ (FREQUENCY)
IWC	INCHES OF WATER COLUMN
KEF	KITCHEN EXHAUST FAN
KEH	KITCHEN EXHAUST HOOD
LBS	POUNDS
MD	MOTORIZED DAMPER
N.I.S.	NOT IN SCOPE
OAL	OVERALL AREA LENGTH
PH	PHASE
RG	RETURN GRILL
RPM	REVOLUTIONS PER MINUTE
RR	RETURN REGISTER
SA	SUPPLY AIR
SP	STATIC PRESSURE
SPD	SUPPLY PLENUM DIFFUSER
T	THERMOSTAT
TEMP	TEMPERATURE
TYP	TYPICAL
V/PH/Hz	VOLTS/PHASE/HERTZ
VD	VOLUME DAMPER
W/	WITH
WT	WEIGHT

SYMBOLS LIST



EXHAUST FAN SCHEDULE

TAG	MFR	MODEL	TYPE	DRIVE	CFM	SP IN WC	HP	BHP	RPM	V/Ph/Hz	FLA	SONES	SERVICE	LOCATION	L/W/H (IN)	WEIGHT (LBS)
KEF-01	CAPTIVEAIRE	DU33HFA	UPDOWN	DIRECT	1,750	0.6	3.0	1,295	1,200	115/1/60	4.3	10.1	KH-01	ROOF	-	100
DEF-01	CAPTIVEAIRE	DU33HFA	SIDEWALL	DIRECT	600	0.75	0.333	0.114	1202	115/1/60	4.3	10.1	DISHWASHER	WALL	-	100

- NOTES:
- PROVIDE MOTOR WITH THERMAL OVERLOAD PROTECTION, DISCONNECT SWITCH & ISOLATION KIT.
 - PROVIDE UL LABELED/VENTED ROOF CURBS WITH GREASE BOX COVER FOR ROOF EXHAUST FANS.
 - PROVIDE SPEED CONTROLLER FOR 1 PHASE MOTORS & VFD FOR 3 PHASE MOTORS.

RANGE HOOD SCHEDULE

TAG	MFR	MODEL	APPLIANCE DUTY	CAL/OAL (FT)	MAX COOKING TEMP., °F	TYPE	DESIGN CFM/FT	TOTAL/MIN CFM	SP IN WC	VEL	LOCATION	FILTER SIZE (QTY H" x L")	WEIGHT (LBS)
KH-01	CAPTIVEAIRE	5424 ND-2	MEDIUM	10/11	450	I	175	1750/1400	0.864	1637	KITCHEN	7 16 x 16	1,000

- REMARKS:
- PROVIDE ON/OFF SWITCH TO KEF-01.
 - PROVIDE SWITCHED LIGHTING SYSTEM.
 - PROVIDE FULL COVERAGE, SELF CONTAINED FIRE SUPPRESSION SYSTEM WITH HOOD MOUNTED UTILITY CABINET.

VENTILATION SCHEDULE

ROOM NAME	ROOM NUMBER	AREA SQ. FT.	No. OF PEOPLE	REQUIRED OUTSIDE AIR CFM PER CODE			PROVIDED VENTILATION AIR (CFM) PER DESIGN				EQUIPMENT TAG No.
				OA PER PERSON	OA PER SQ. FT.	OA TOTAL (MINIMUM)	SUPPLY	RETURN	OUTSIDE AIR	EXHAUST	
KITCHEN	01	868	18	7.5	0.12	244	1,440	1,440	250	-	DOAS-01
DISHWASHING	02	141	1	5	0.06	13	135	135	25	-	DOAS-01

- VENTILATION SCHEDULE NOTES:
- VENTILATION REQUIREMENTS ARE BASED ON THE INTERNATIONAL MECHANICAL CODE (IMC) 2021, NJ EDITION.
 - VENTILATION REQUIREMENTS ARE BASED ON THE NORMAL OPERATING CONDITIONS WHERE NO KITCHEN HOODS ARE IN OPERATION.

ELECTRIC UNIT HEATER SCHEDULE

MARK No. LOCATION MANUFACTURER MODEL	EUH-01 RECEIVING OMARK EFF1500	
TOTAL CAPACITY AIRFLOW	MBH CFM	5.1 400
ELECTRICAL DATA: POWER	V/PH/Hz AMPS KW	208/1/60 12.5 1.5
APPROX. WEIGHT DIMENSIONS	LBS IN (D x W x H)	50 16 x 20 x 4

- PROVIDE THE FOLLOWING:
- HANGER RODS WITH SPRING VIBRATION ISOLATORS.
 - DOUBLE DEFLECTION DISCHARGE LOUVER.

DIFFUSER & REGISTER SCHEDULE

NO.	MARK	REMARKS
1.	CD SHALL BE TITUS MODEL TMSA-AA OR APPROVED "EQUAL".	① ② ③ ④
2.	CG SHALL BE TITUS MODEL PAR-AA OR APPROVED "EQUAL".	② ④
3.	SPD SHALL CAPTIVEAIRE MODEL DI-PSP.	④ ⑤ ⑥

- REMARKS:
- LOUVERED FACE, HIGH CAPACITY, ALUMINUM DIFFUSER WITH ROUND NECK AND ADJUSTABLE DISCHARGE PATTERN.
 - PROVIDE OPPOSED BLADE VOLUME DAMPER.
 - PROVIDE EQUALIZING GRID.
 - PROVIDE STANDARD WHITE FINISH UNLESS OTHERWISE NOTED ON DRAWINGS.
 - STAINLESS STEEL PERFORATION AND TRIM REMOVABLE PERFORATION FOR PLENUM CLEANING.
 - CAPTIVEAIRE IS BASIS OF DESIGN.

AIR BALANCE TABLE

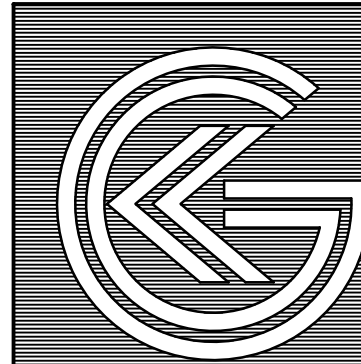
UNIT TAG	SUPPLY AIR (CFM)	RETURN AIR (CFM)	OUTSIDE AIR (CFM)	EXHAUST AIR (CFM)	NOTES
DOAS-01	0	0	1,575	0	1
KEF-01	0	0	0	1,750	1

- NOTES:
- THE OVERALL SPACE IS NEGATIVELY PRESSURIZED BY 175 CFM.

ROOFTOP UNIT SCHEDULE

MARK No.			DOAS-01
MANUFACTURER			CAPTIVEAIRE
MODEL & SIZE			CAS-HVAC2-1,200-18-13T-PEM
TYPE			DOWNFLOW
SERVICE			KITCHEN
SUPPLY FAN DATA:			
TOTAL AIRFLOW	CFM	1,575	
TOTAL OUTSIDE AIR	CFM	1,575	
MIN. AIRFLOW	CFM	1,575	
MIN. OUTSIDE AIR	CFM	275	
ESP	IWC	1,750	
MOTOR HORSEPOWER	HP	3	
POWERED EXHAUST FAN DATA:			
TOTAL AIRFLOW	CFM	1,575	
ESP	IWC	1.0	
MOTOR HORSEPOWER	QTY/HP	1.0/3.4	
ELECTRICAL	V/PH/HZ	460/3/60	
DX COOLING COIL DATA:			
TOTAL GROSS CAPACITY	MBH	156.2	
SENSIBLE GROSS CAPACITY	MBH	72.1	
EAT DB/WB	°F	96/79	
LAT DB/WB	°F	52.4/47.7	
GAS HEATING DATA:			
INPUT/OUTPUT	MBH	193.1/156.4	
EAT/LAT DB	°F	0/-	
TEMP RISE	°F	80°	
AIRFLOW	CFM	1,575	
MIN/MAX PRESSURE	IN WG	7/14	
HOT GAS REHEAT DATA:			
CAPACITY (MIN/MAX)	MBH	31.1/103.2	
LAT DB/WB	°F	70.0/55.3	
MOISTURE REMOVAL	LBS/HR	76	
ELECTRICAL DATA:			
POWER	V/PH/HZ	460/3/60	
MCA	AMPS	45.0	
MOCP	AMPS	42.9	
DIMENSIONS RTU (L x W x H)			
UNIT WEIGHT + ROOF CURB	LBS	134" X 81" x 61"	
		2,850 + 133 = 2,946 ~ 3,000	

- NOTES:
- IRI (INDUSTRIAL RISK INSURERS) COMPLIANCE REQUIRES MECHANICAL EXHAUST (POWER VENT) PRODUCTS OF COMBUSTION AND 100% SHUT-OFF TYPE (LOOKOUT) IGNITION SYSTEM.
 - BURNER, HEAT EXCHANGER, VENTING SYSTEM, AND DRIP PAN SHALL BE 409 STAINLESS STEEL.
 - DIRECT DRIVE PLENUM BLOWER MOTOR SHALL BE HIGH EFFICIENCY TYPE.
 - PROVIDE FREQUENCY DRIVE WITH THERMAL OVERLOAD PROTECTION.
 - CONTRACTOR SHALL COORDINATE MANUFACTURER'S AND ATC CONTROLS.
 - CLOGGED FILTER PRESSURE SWITCH. PROVISION FOR REMOTE INDICATION SHALL BE PROVIDED BY TERMINAL BLOCK CONNECTION POINT.
 - PROVIDE INSULATED DOUBLE WALL CONSTRUCTION.
 - CONTRACTOR SHALL VERIFY THE EXACT SLOPE OF THE ROOF IN ORDER TO PROVIDE A LEVEL SURFACE FOR THE MECHANICAL EQUIPMENT. CURBS/RAILS SHALL BE FABRICATED WITH HEIGHT TAPERED TO MATCH SLOPE TO LEVEL TOPS OF UNITS.
 - PROVIDE 2" THICK MERV 8 & MERV 13 THROW AWAY FILTERS IN OUTDOOR AIR AND MIXED AIR STREAM.
 - PROVIDE SCROLL COMPRESSOR WITH INTEGRATED OIL SENSOR.
 - PROVIDE REFRIGERATION PRESSURE MONITORING ON HIGH AND LOW PRESSURE SIDE OF SYSTEM. INCLUDING THROUGH DIGITAL INTERFACE.
 - PROVIDE EC MOTOR CONDENSING FAN.
 - PROVIDE ELECTRONIC EXPANSION VALVE.
 - PROVIDE STATIC PRESSURE CONTROLLED BLOWER.
 - PROVIDE FULLY MODULATED HOT GAS REHEAT.
 - PROVIDE HAIL GUARD FOR CONDENSING COIL.
 - PROVIDE UNIT WITH DOWN DISCHARGE/RETURN.
 - PROVIDE ROOF CURB WITH INTEGRAL SPRING TYPE VIBRATION ISOLATORS & WIND RESTRAINTS.
 - PROVIDE SINGLE PHASING, PHASE IMBALANCE, SURGE PROTECTION, POWER QUANTITY MONITORING & SHUTDOWN SYSTEM - ICM450, OR APPROVED EQUAL.



KELTER & GILLIGO
consulting engineers

P.O. BOX 777, 196 PRINCETON-HIGHTSTOWN RD.
PRINCETON JUNCTION NEW JERSEY 08550

Frank Thidali, P.E.
Professional Engineer
NJ 38656

November 17, 2025 2:54:43 p.m.
Drawing: 3207 H-200.DWG

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REFERENDUMS • ENGINEERING • ARCHITECTURE • DESIGN

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NJDOE SP #05-1280-050

PROJECT TITLE & ADDRESS:

MAGOWAN KITCHEN
MAGOWAN ELEMENTARY SCHOOL
LOT 1 / BLOCK 705
405 CHERRIX AVENUE
EDGEWATER PARK, NEW JERSEY
08010

OWNER'S ADDRESS:

EDGEWATER PARK TOWNSHIP BOE
25 WASHINGTON AVENUE
EDGEWATER PARK, NEW JERSEY
08010

PROJECT NO.: **5760C**

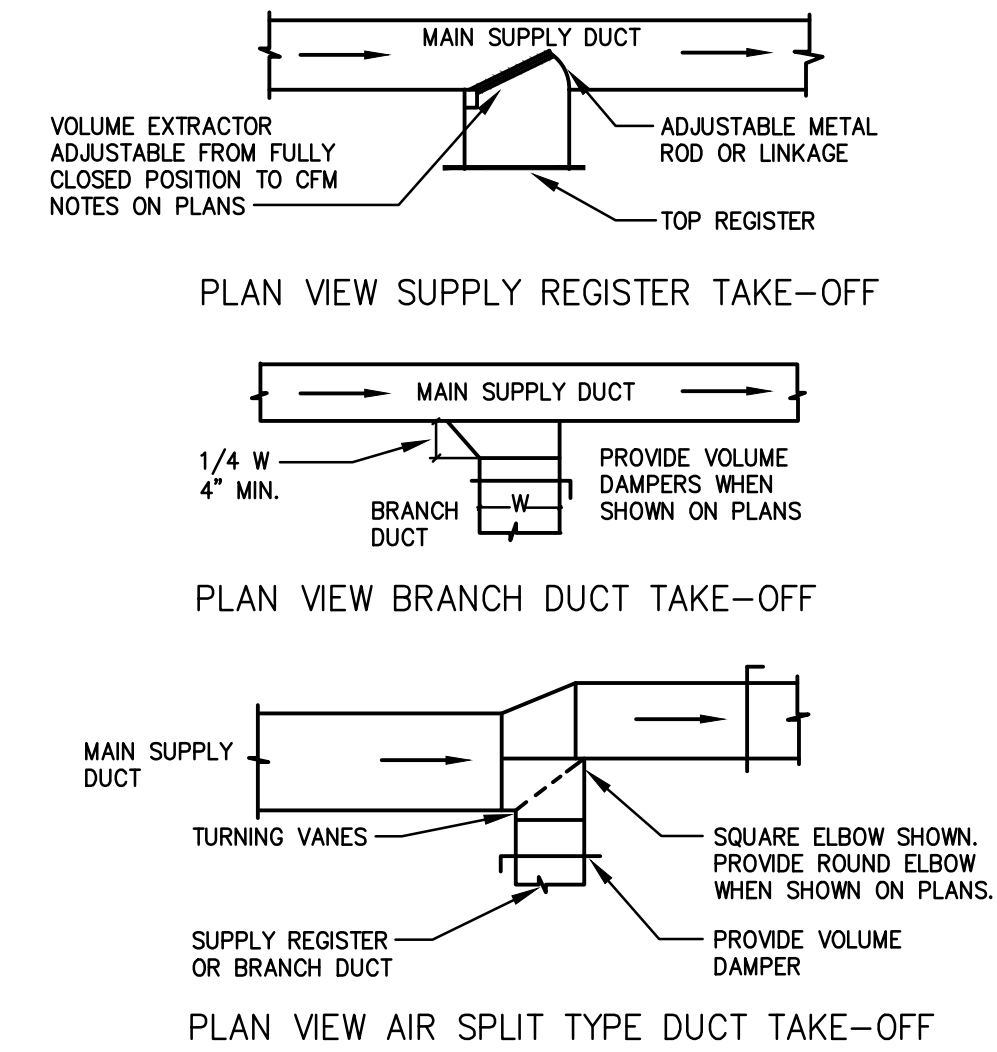
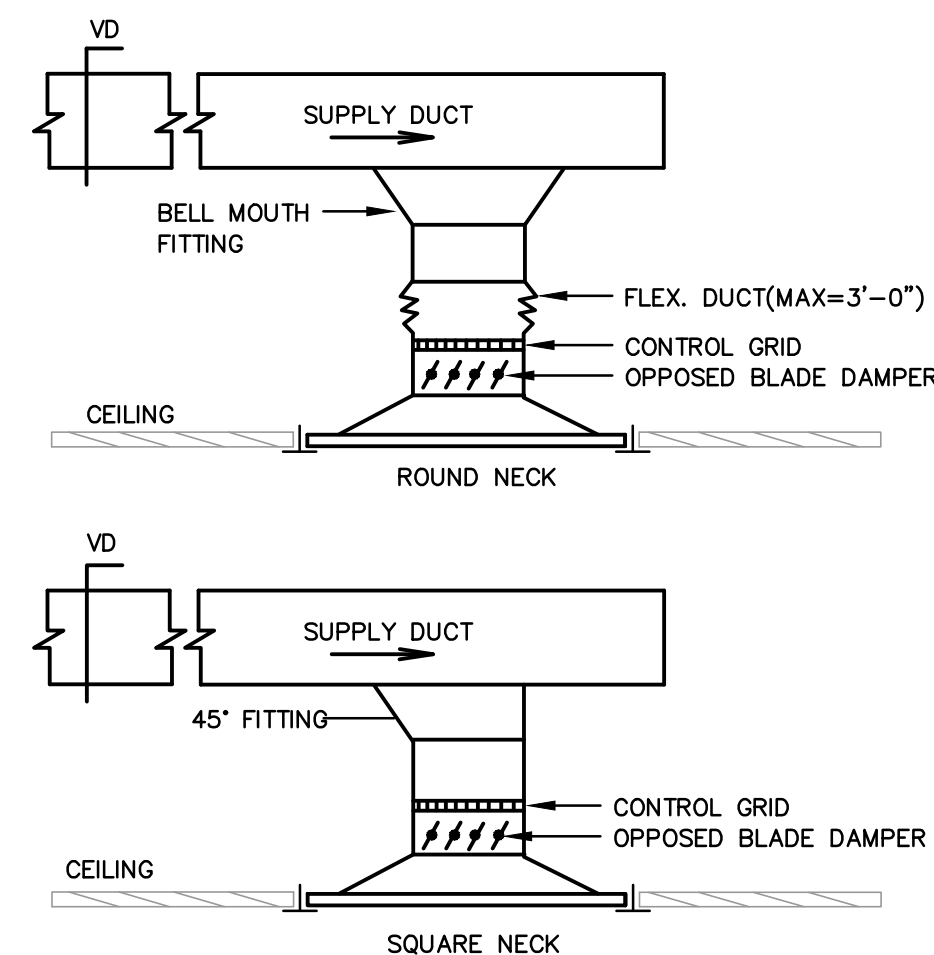
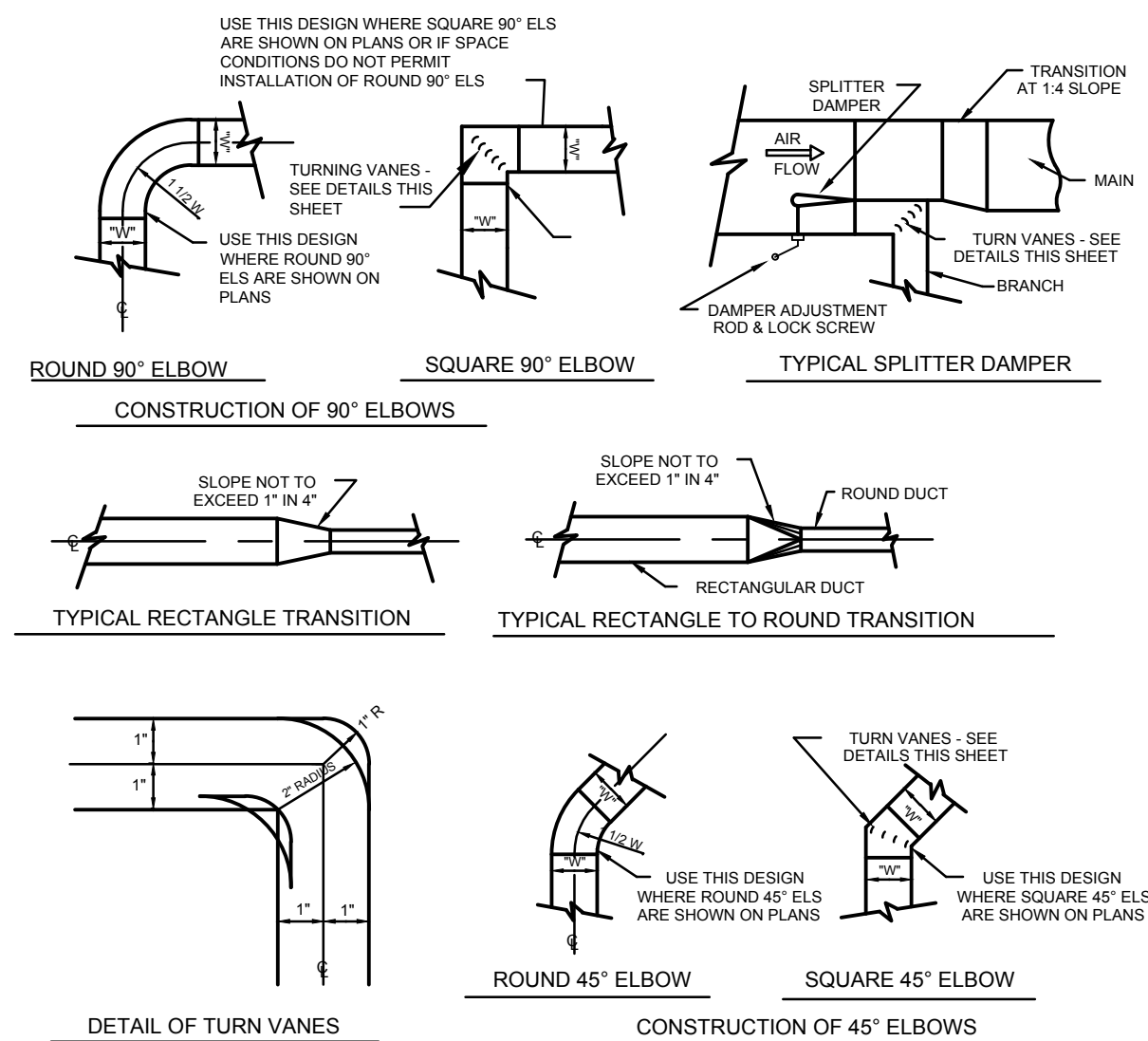
REVISION DATE:	
11/18/25	ADD-02

DRAWING DATE:	20 JUNE 2025
PRINT DATE:	
DRAWN BY:	
SHEET TITLE:	ABBREVIATIONS, SYMBOL LIST & SCHEDULES

H-200

05 OF 06

TYPICAL DUCTWORK DETAILS			
DUCT TAKE-OFF FOR BRANCH FLOW UP TO 24% OF MAIN	NOTE: WIDTH OF BRANCH UP TO 12". 12" FOR ALL BRANCH DUCTS LARGER THAN 12".		TURNING VANES: A) SINGLE THICKNESS - $W \leq 36"$ B) DOUBLE THICKNESS - $W > 36"$ SQUARE ELBOW MAY TRANSITION IN "W1" DIMENSION ONLY. IF "W1" IS DIFFERENT THAN "W", VANES TO BE POSITIONED ACCORDINGLY.
CONICAL OR BELLMOUTH	CONICAL OR BELLMOUTH		$R = W$ ELBOW MAY TRANSITION IN "W" DIMENSION ONLY.
BT = BOTTOM THROAT TT = TOP THROAT SUPPLY DUCT BRANCH FOR FLOW 25% OR GREATER FOR FLOW OR GREATER OF MAIN	ELBOW MAY TRANSITION IN "W" DIMENSION ONLY. ELEVATION	LONG RADIUS ELBOW (90°)	LONG RADIUS ELBOW (90°)
		DUCT UP	DUCT UP
RETURN OR EXHAUST BRANCH FOR FLOW 25% OR GREATER OF MAIN.	$R = W$	DUCT DOWN	DUCT DOWN



1 DUCTWORK DETAILS

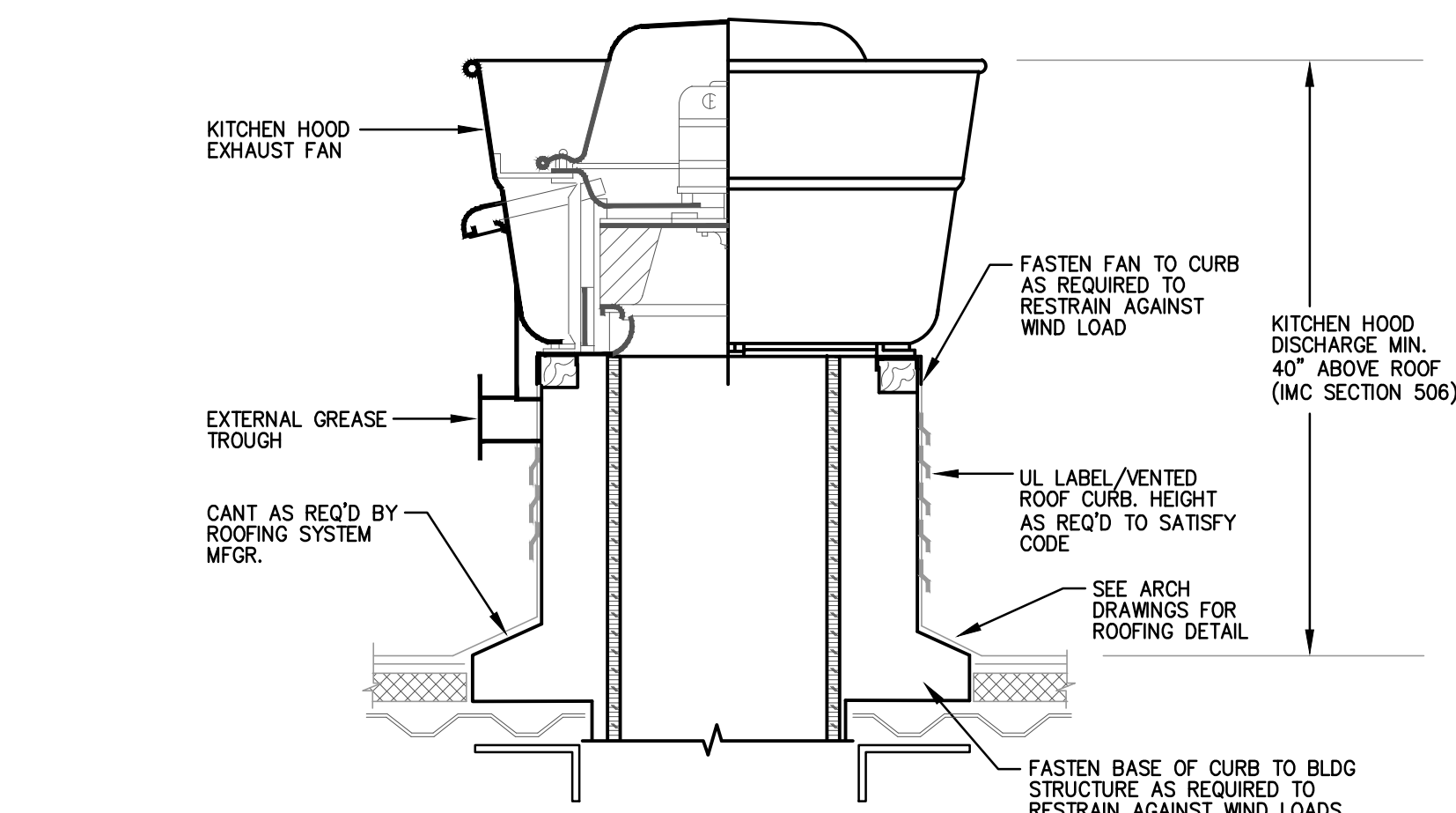
H300 NOT TO SCALE

2
H300

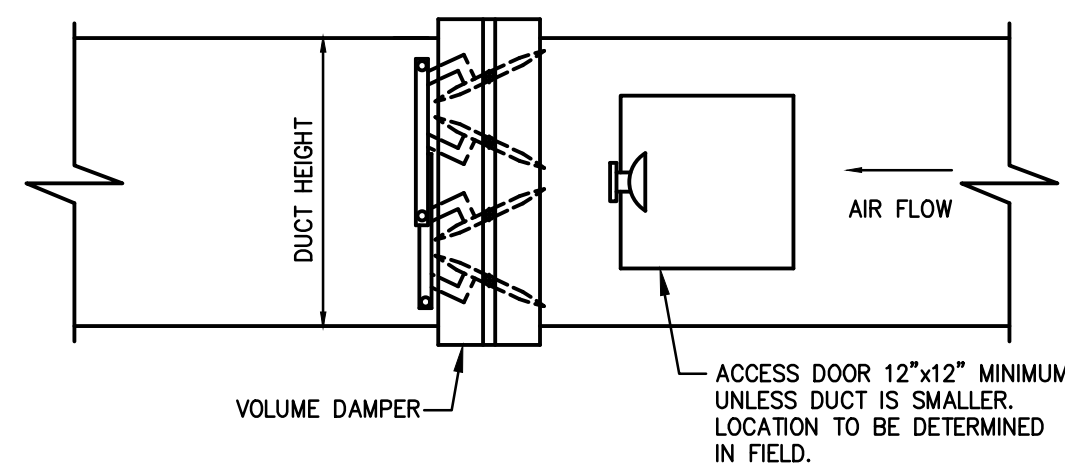
CEILING DIFFUSER TAKE-OFF

NOT TO SCALE

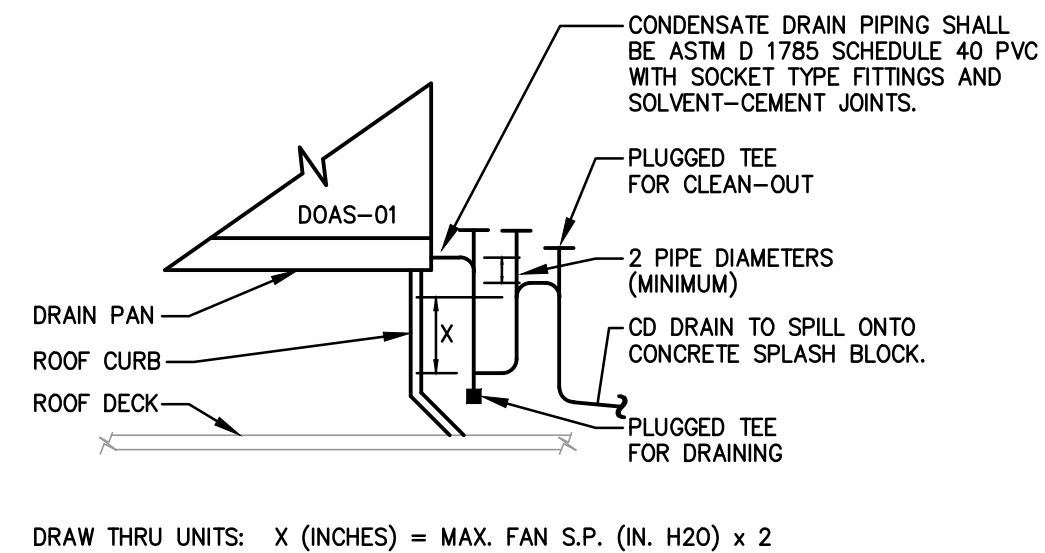
3 SUPPLY DUCT TAKE-OFF DETAIL
H300 NOT TO SCALE



4 KITCHEN HOOD EXHAUST FAN DETAIL --- H300 NOT TO SCALE

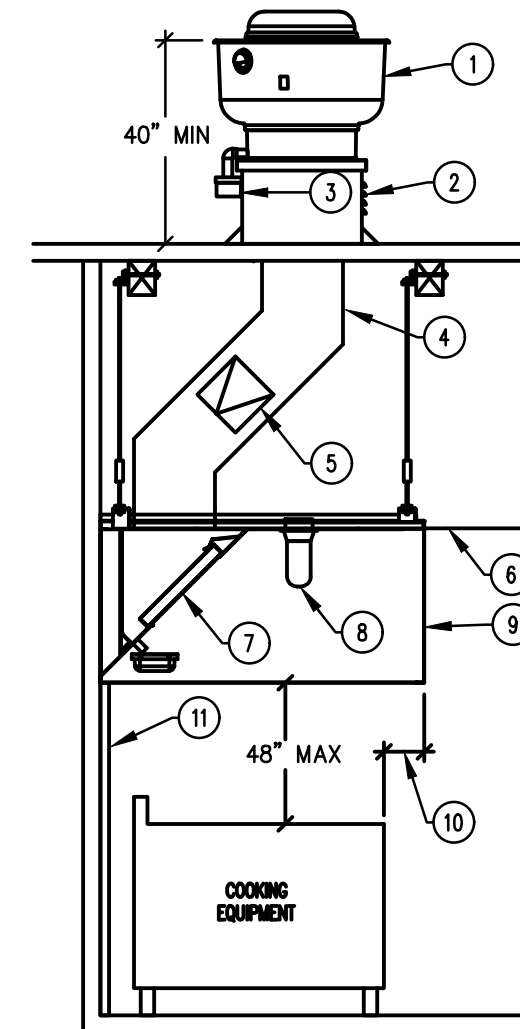


8 VOLUME DAMPER DETAIL
H300 NOT TO SCALE



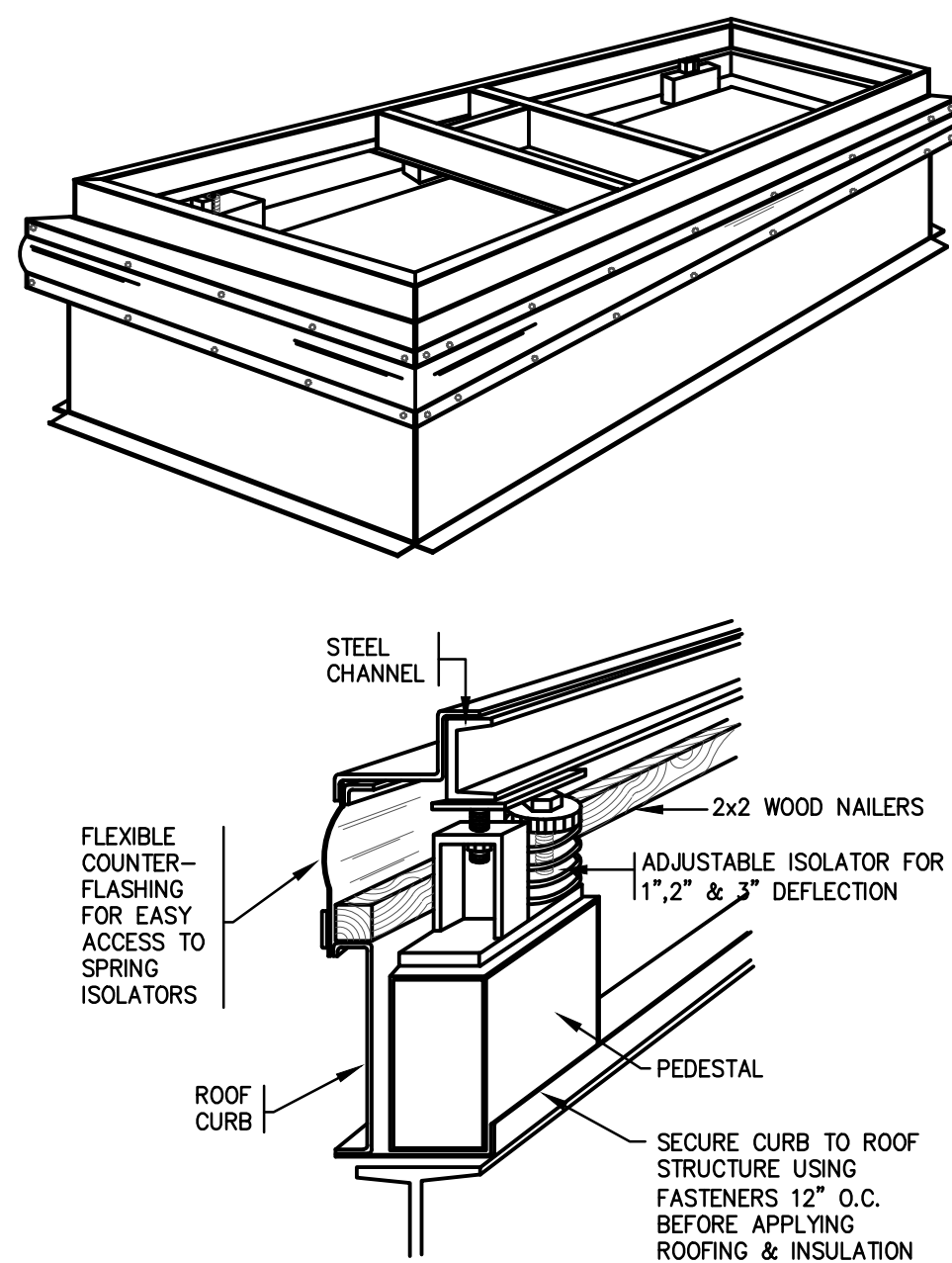
5 DRAIN CONNECTION AT RTU
H300 COOLING COIL DETAIL
NOT TO SCALE

- KEYED NOTES:**
1. KITCHEN EXHAUST FAN. TERMINATE MIN. 10'-0" FROM ADJACENT BUILDING, PROPERTY LINE, AIR INTAKES AND 10'-0" ABOVE ADJOINING GRADE.
 2. VENTED CURB EXTENSION.
 3. GREASE TROUGH
 4. GREASE DUCT UP TO EXHAUST FAN, SLOPE MIN. 1/4" PER LINEAL FOOT TO HOOD.
 5. CLEANOUT DOOR IN DUCT SHALL BE SLIDING OR HINGED.
 6. CEILING, SEE ARCHITECTURAL PLANS.
 7. GREASE FILTERS WITH DRAIN.
 8. HOOD LIGHTING.
 9. STAINLESS STEEL TYPE 1 HOOD, MAINTAIN MIN. 18" CLEARANCE FROM COMBUSTIBLES, 12" CLEARANCE FROM 150° FH FIRE PROTECTED COMBUSTIBLES.
 10. HOOD SHALL OVERHANG COOKING SURFACE MIN. 6" ON ALL OPEN SIDES.
 11. PROVIDE TWO DWGS FOR PROPOSED APPLIANCE LAYOUT
 12. FULL HEIGHT 22 GA. STAINLESS STEEL BUSH 1/2" BENEATH FULL LENGTH OF HOOD FINISH TO MATCH HOOD

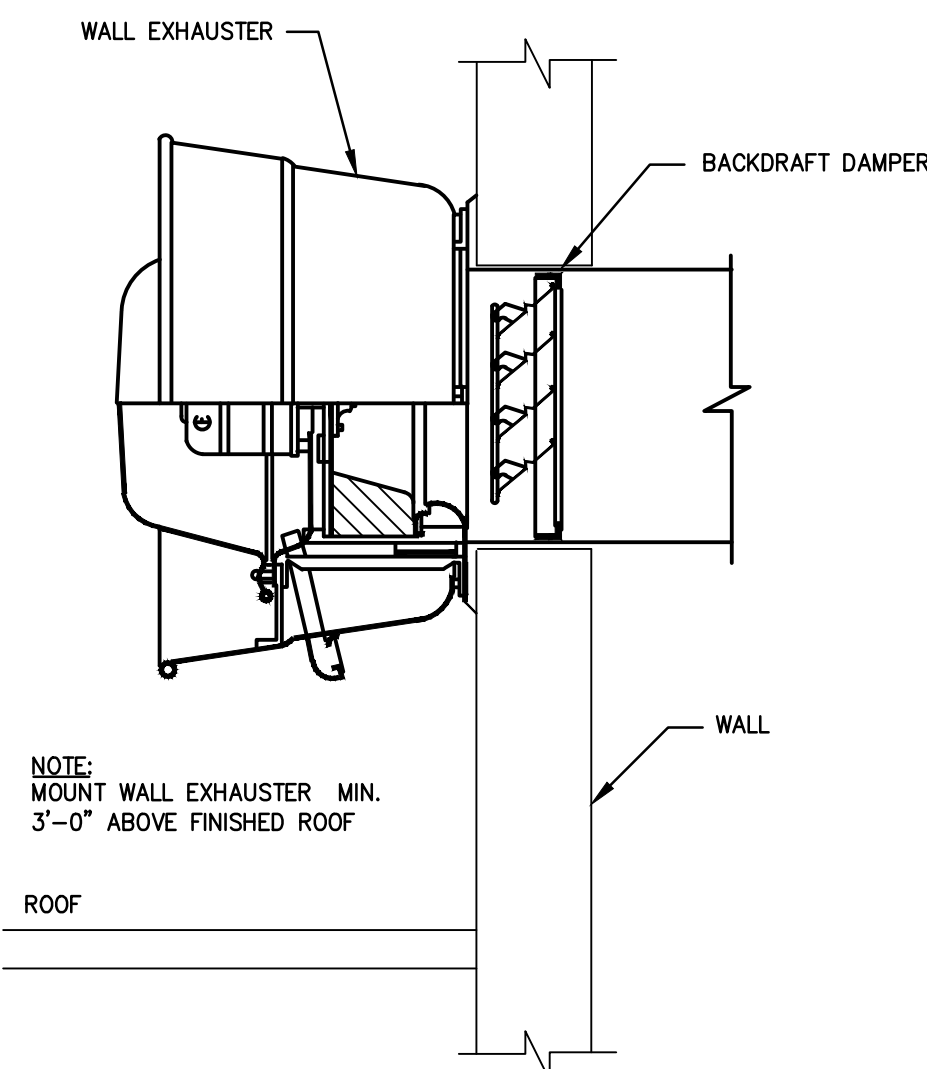


6 KITCHEN HOOD DETAIL

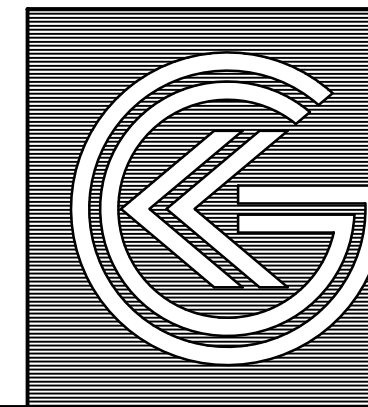
H300 NOT TO SCALE



7 ROOF CURB DETAIL
H300 NOT TO SCALE



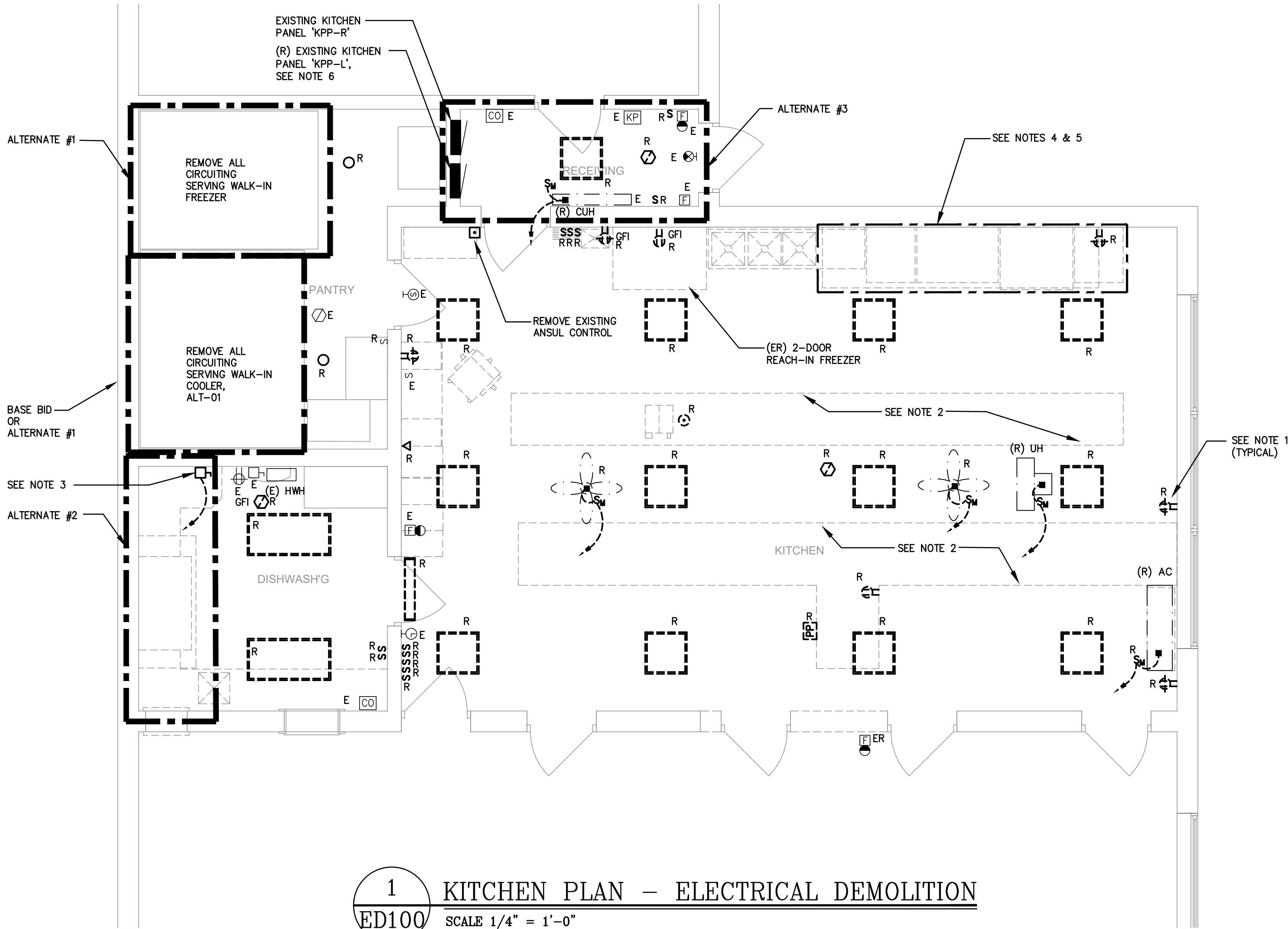
9 SIDEWALL EXHAUST FAN DETAIL



Frank Tindall, P.E.
Professional Engineer
NJ 38656

SYMBOL LIST & ABBREVIATIONS

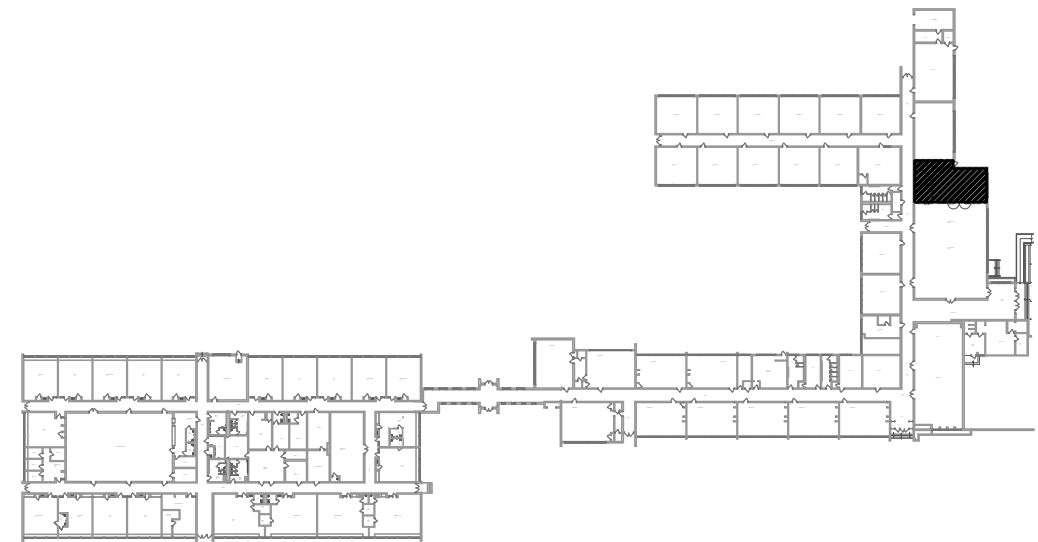
	LIGHT FIXTURE
	OCCUPANCY SENSOR - LETTER DENOTES TYPE OF SENSOR TO BE INSTALLED NOTES: PROVIDE ALL HARDWARE AND PROGRAMMING AS REQUIRED.
	PWT = PW-100 PASSIVE INFRARED WALL SWITCH SENSOR - LINE VOLTAGE
	POWER PACK TRANSFORMER AND RELAY, OUTPUT RELAYS RATED 20A BALLAST OR INCANDESCENT, PROVIDE QUANTITY OF RELAYS AS REQUIRED, REFER TO AUTOMATIC LIGHTING CONTROL NOTES.
	DUPLEX RECEPTACLE, 20A, 125V, 2 POLE, U-GROUND SLOT, COMMERCIAL GRADE, TAMPER-RESISTANT, COORDINATE ALL DEVICE LOCATIONS WITH ARCHITECT PRIOR TO ROUGH-IN. GFI - INDICATES GROUND FAULT INTERRUPTION D - INDICATES DOUBLE DUPLEX (QUAD) RECEPTACLE DUPLEX RECEPTACLE MOUNTED ABOVE COUNTER HEIGHT
	RECEPTACLE MOUNTED OVERHEAD
	SPECIAL PURPOSE RECEPTACLE, TYPE AS NOTED
	VOICE/DATA/VIDEO OUTLET - 4" X 4" OUTLET BOX WITH 1-1/4"C STUBBED UP ABOVE NEAREST ACCESSIBLE CEILING VERIFY LOCATION IN FIELD
	FLUSH FLOOR MOUNTED BOX WITH COVERPLATE, WIREMOLD OMNI SERIES 880 OR APPROVED EQUAL, PROVIDE (2) 20A/1P, 125V, 2 POLE U-GROUND SLOT RECEPTACLES
	FLUSH FLOOR MOUNTED OUTLET BOX WITH DUPLEX RECEPTACLE AND VOICE/DATA/VIDEO OUTLETS WITH 1-1/4"C STUBBED UP ABOVE ACCESSIBLE CEILING - COORD. LOCATION IN FIELD WITH ARCHITECT
	LIGHT SWITCH
	LOW VOLTAGE MOMENTARY SWITCH
	MANUAL MOTOR STARTER
	UNFUSED DISCONNECT SWITCH
	COMBINATION MAGNETIC MOTOR STARTER AND THERMAL OVERLOAD RELAY
	208/120V PANELBOARD
	FIRE ALARM, SMOKE DETECTOR PHOTOELECTRIC
	FIRE ALARM, HEAT DETECTOR FIXED TEMPERATURE AND RATE-OF-RISE
	FIRE ALARM HEAT DETECTOR - TEMPERATURE, WHERE NOTED, INDICATES FIXED TEMPERATURE ONLY TYPE
	FIRE ALARM, AUDIO/VISUAL DEVICE
	FIRE ALARM MANUAL PULL STATION
	FIRE ALARM, VISUAL DEVICE
	FIRE ALARM, CARBON MONOXIDE DETECTOR
	CARBON MONOXIDE DETECTOR
	EMERGENCY PUSH BUTTON WITH KEY RESET, ASCO 216C89 OR APPROVED EQUAL
	CLOCK
	SPEAKER
	JUNCTION BOX
	KEY PAD
	WIRE & CONDUIT, CONCEALED IN CEILING OR WALL
	HOMERUN TO PANEL, NUMERAL INDICATES CIRCUIT NUMBER
	CONNECTION TO EQUIPMENT
	ABOVE CEILING
	EXISTING
	EXISTING TO BE RELOCATED, CAREFULLY REMOVE AND STORE ON SITE. DISCONNECT AND SAFE-OFF ALL WIRING FOR FUTURE EXTENSION TO NEW LOCATION
	EXISTING TO BE REMOVED
	RELOCATE EXISTING TO THIS LOCATION, COORDINATE EXACT LOCATION IN FIELD, PROVIDE NEW WIRING TO EXTEND EXISTING WIRING AS REQUIRED, MATCH EXISTING WIRING TYPE AND SIZE
	WEATHERPROOF



- NOTES:
1. REMOVE ALL EXISTING POWER AND DATA RECEPTACLES LOCATED IN KITCHEN WHETHER SHOWN OR NOT.
 2. DASHED OUTLINE INDICATES EXISTING SERVRY EQUIPMENT, REMOVE ALL POWER AS REQUIRED FOR DEMOLITION.
 3. REMOVE POWER TO EXISTING DISHWASHER, FEED FROM PANEL SSP-2.
 4. REMOVE POWER TO EXISTING RANGE AND RANGE HOOD, REMOVE EXISTING ASSOCIATED ANSUL SHUTDOWN.
 5. REMOVE POWER TO EXISTING DOUBLE OVEN.
 6. RECONNECT EXISTING FEEDER AND REMAINING LOADS TO NEW PANEL 'PPK', PROVIDE ALL WIRING AND CABLING TO MATCH EXISTING TO LOCATION SHOWN ON DRAWING.

DEMOLITION NOTES:

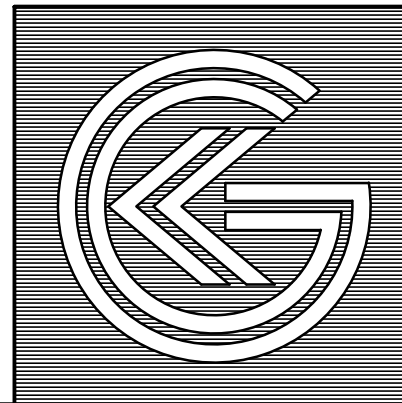
1. THESE DEMOLITION PLANS ARE INTENDED TO BE USED AS A GUIDE TO THE CONTRACTOR. ALL DEMOLITION WORK NECESSARY FOR THE INSTALLATION OF NEW WORK OR THE REMOVAL OF EXISTING EQUIPMENT, IS HEREBY INCLUDED, WHETHER SHOWN ON THESE PLANS OR NOT. REFER TO DRAWINGS OF ALL TRADES FOR ADDITIONAL WORK, AND COORDINATE IN THE FIELD.
2. THE CONTRACTOR SHALL VERIFY ACTUAL SITE CONDITIONS PRIOR TO SUBMITTING THEIR BID. THE CONTRACTOR SHALL INCLUDE ALL DEMOLITION WORK NECESSARY FOR THE EFFECTIVE INSTALLATION AND PERFORMANCE OF NEW SYSTEMS. THE CONTRACTOR SHALL ALSO INCLUDE TEMPORARY REMOVAL AND REINSTALLATION OF EXISTING WORK WHEREVER NECESSARY. THE OWNER SHALL NOT ACCEPT EXTRA COSTS ASSOCIATED WITH THE DEMOLITION AND/OR TEMPORARY REMOVAL/REINSTALLATION WORK FROM THE CONTRACTOR.
3. THIS CONTRACTOR SHALL REMOVE ALL LIGHTING FIXTURES AND ELECTRICAL DEVICES AS INDICATED ON THE DEMOLITION PLANS, OR THAT ARE NO LONGER NEEDED BY THE OWNER. ALL EXISTING WIRING AND CONDUIT WHERE NO LONGER REQUIRED SHALL BE REMOVED BACK TO EXISTING PANEL. ALL EXISTING DISCONNECTED CIRCUITS NOT BEING REUSED SHALL BE TURNED OFF AND LABELED "SPARE". WHERE CONDUITS ARE INACCESSIBLE, REMOVE WIRE AND ABANDON CONDUITS.
4. IT IS THE CONTRACTORS RESPONSIBILITY TO VERIFY POWER IS BEING PROVIDED TO ALL EXISTING EQUIPMENT REQUIRED TO REMAIN IN SERVICE. RECONNECT ALL DISTURBED FACILITIES WHICH ARE EXISTING TO REMAIN AND PLACE THEM IN OPERATIONAL CONDITION.
5. REMOVE ALL WIRING DEVICES FROM WALLS TO BE DEMOLISHED. REMOVE EXISTING LIGHT SWITCHES WHERE NO LONGER REQUIRED. REUSE ALL EXISTING CONCEALED CONDUIT AND RECESSED DEVICE BOXES WHERE POSSIBLE. ABANDON BOXES IF THEY ARE IN EXISTING WALLS TO REMAIN. PATCH WALLS OVER ABANDONED BOXES TO MATCH ADJACENT SURFACES.
6. REMOVE ABANDONED OUTLET BOXES, SURFACE METAL RACEWAY AND CONDUIT THAT WOULD BE EXPOSED, AND REPAIR DISTURBED SURFACES TO MATCH ADJACENT AREAS.
7. MAJOR PIECES OF EQUIPMENT ARE TO BE TURNED OVER TO THE OWNER FOR THEIR USE, OR AT THE OWNER'S DISCRETION, REMOVED FROM THE SITE AND DISPOSED OF, IF NO LONGER REQUIRED.
8. PATCH ALL WALLS TIGHT AT REMOVALS. MAINTAIN FIRE RATINGS AS REQUIRED.
9. THE CONTRACTOR SHALL REFER TO THE ARCHITECTURAL DRAWINGS FOR THE EXTENT OF WALL FINISHES AND CEILINGS TO BE REPLACED. ALL EXISTING DEVICES TO REMAIN SHALL BE TEMPORARILY DISCONNECTED AND REINSTALLED, WHERE TEMPORARY REMOVAL IS NOT POSSIBLE. THE CONTRACTOR SHALL PROVIDE TEMPORARY SUPPORT OF EXISTING EQUIPMENT IN PLACE.
10. THE EXISTING FIRE ALARM SYSTEM SHALL BE MAINTAINED THROUGHOUT DEMOLITION AND CONSTRUCTION. PROVIDE TEMPORARY SUPPORT OF EXISTING DEVICES AS REQUIRED. THE CONTRACTOR SHALL NOTIFY THE FIRE MARSHAL UPON ANY MODIFICATIONS TO OR ANY NECESSARY INTERRUPTION IN SYSTEM OPERATION. NOTE THAT COVERING DEVICES DURING CONSTRUCTION IS AN INTERRUPTION TO COVERAGE.



KEY PLAN



August 04, 2025 9:37:57 a.m.
Drawing: 3207 E-100.DWG



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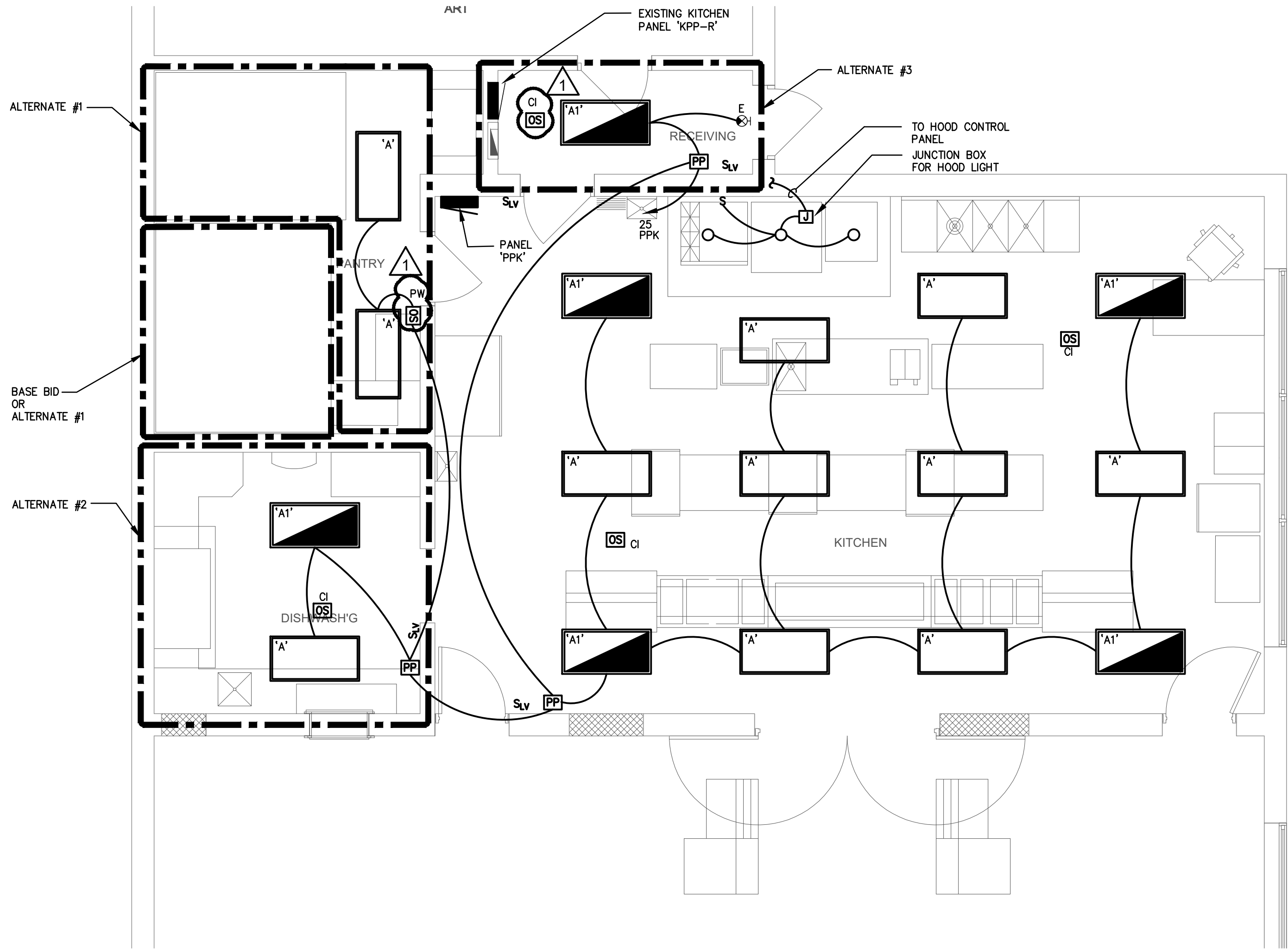
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PRINT DATE:	
DRAWN BY:	AS
SHEET TITLE:	KITCHEN PLAN - ELECTRICAL DEMOLITION

ED-100

01 OF 04

DRAWING REFERENCE SCALE, VERIFY ACTUAL SIZE AND ADJUST AS REQUIRED

0" 1" 2"



1
E100 KITCHEN PLAN - LIGHTING
SCALE 1/4" = 1'-0"

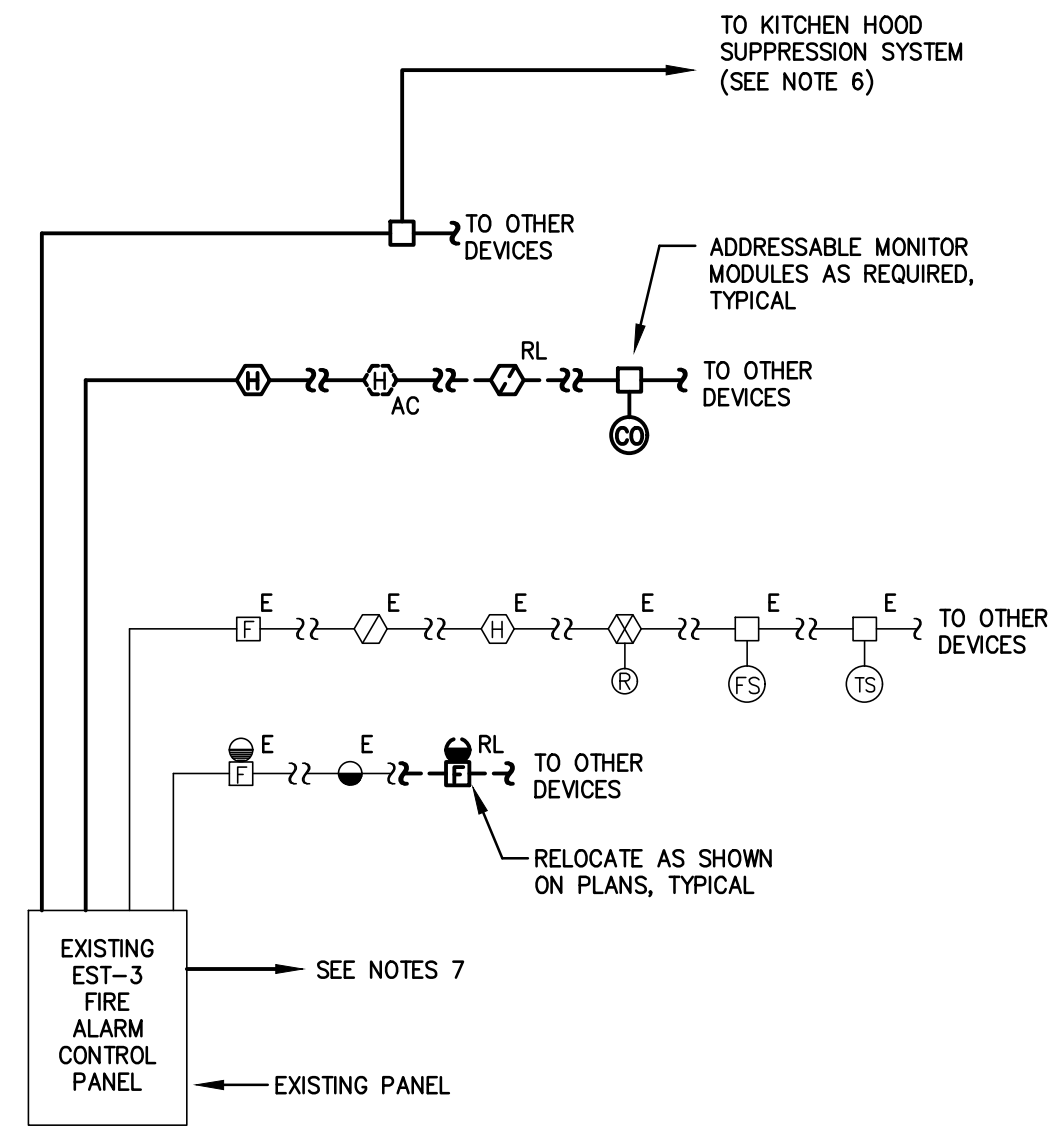
LIGHTING FIXTURE SCHEDULE					
ID	LAMPS	MANUFACTURER	CATALOG NUMBER	MOUNTING	DESCRIPTION
A	60.3W LED 6260 LUMENS SPX 35	COOPER OR APPROVED EQUAL	FSP-24-64-35-CA080	RECESSED	2' X 4' SEALED PANEL WITH CLEAR OUTER LENS - SUITABLE FOR KITCHEN USE, UNIVERSAL 120-277V DRIVER WITH 0-10V DIMMING
A1	60.3W LED 6260 LUMENS SPX 35	COOPER OR APPROVED EQUAL	FSP-24-64-35-CA080-EL7W	RECESSED	2' X 4' SEALED PANEL WITH CLEAR OUTER LENS - SUITABLE FOR KITCHEN USE, 90 MINUTE BATTERY BACKUP, UNIVERSAL 120-277V DRIVER WITH 0-10V DIMMING

LIGHTING FIXTURE NOTES:

- ALL FIXTURES SHALL COMPLY WITH ASHRAE/IESNA 90.1 2016 LIGHTING EFFICACY STANDARDS FOR NEW COMMERCIAL BUILDINGS.
- CONNECT ALL EXIT SIGNS AHEAD OF ALL SWITCHING AND CONTROLS.
- PROVIDE ALL EMERGENCY LIGHTING CONTROL RELAYS AND LIGHT FIXTURES SPECIFIED WITH EMERGENCY BATTERY BACKUP WITH AN UNSWITCHED PHASE LEG TO MONITOR FOR NORMAL POWER FAILURE.
- VERIFY EXACT LOCATION OF FIXTURES IN FIELD WITH ARCHITECT AND OWNER PRIOR TO ROUGH-IN.

AUTOMATIC LIGHTING CONTROL NOTES:

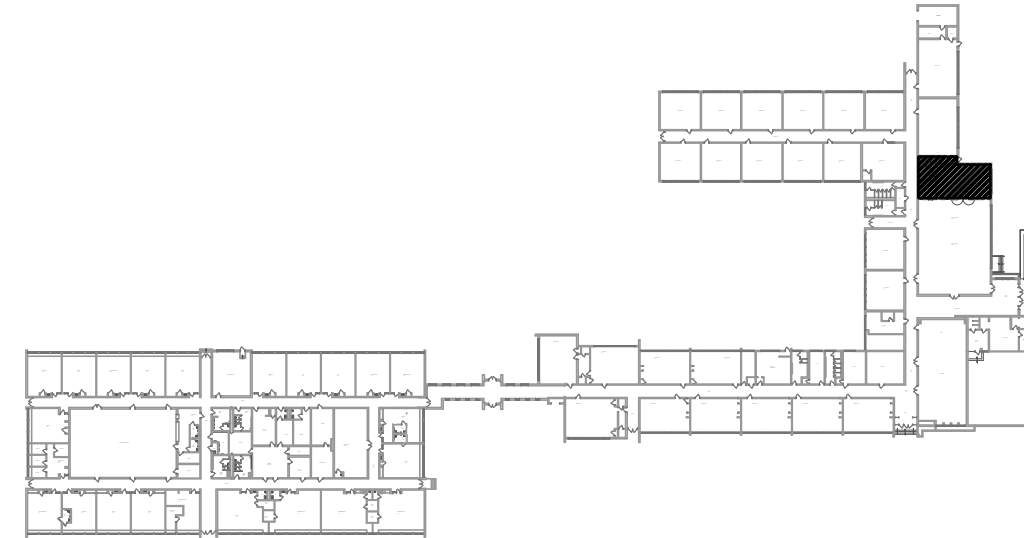
- FURNISH AND INSTALL ALL WIRING AND DEVICES AS RECOMMENDED BY THE MANUFACTURER'S WRITTEN INSTRUCTION FOR THE INSTALLATION OF OCCUPANCY SENSORS.
- PROVIDE ALL RELAYS, POWER PACKS AND LOW VOLTAGE WIRING AS REQUIRED.
- ALL OCCUPANCY SENSORS TO BE FURNISHED AND INSTALLED WITH LOW VOLTAGE OR LINE VOLTAGE INPUTS.
- THE CONTRACTOR SHALL SET ALL PROGRAMMABLE TIME DELAYS TO A MINIMUM OF 15 MINUTES UNLESS OTHERWISE NOTED. ALL OCCUPANCY SENSORS WITH AN AUTOMATIC SENSITIVITY SETTING SHALL BE SET TO AUTOMATIC UNLESS A REDUCED SENSITIVITY SETTING IS RECOMMENDED BY THE MANUFACTURER OR REQUESTED BY THE OWNER. ALL OCCUPANCY SENSORS WITH A SELECTABLE WALK-THROUGH MODE SHALL BE SET TO THIS MODE.



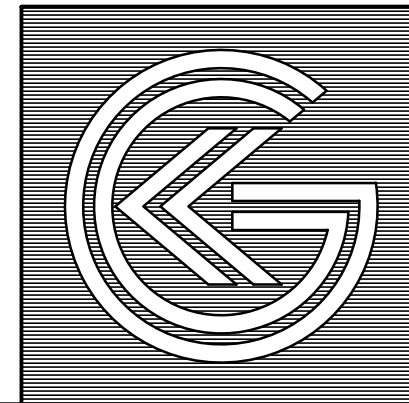
2
E100 FIRE ALARM SYSTEM RISER DIAGRAM
SCHEMATIC

FIRE ALARM SYSTEM NOTES:

- PROVIDE ALL WIRING AS RECOMMENDED BY MANUFACTURER. ALL WIRING SHALL BE IN CONDUIT. FIRE ALARM LABELED MC CABLE MAY BE USED IN CONCEALED LOCATIONS WHERE PERMITTED BY CODE.
- CONTRACTOR IS RESPONSIBLE FOR INSURING THAT FIRE ALARM SYSTEM MODIFICATIONS MEET ALL APPLICABLE CODES AND FOR OBTAINING FINAL APPROVAL FROM LOCAL FIRE INSPECTOR(S).
- PRIOR TO STARTING WORK, PREPARE SHOP DRAWINGS INCLUDING ALL INFORMATION REQUIRED UNDER NFPA 72 SECTION 14.2. SUBMIT SHOP DRAWINGS TO ENGINEER FOR REVIEW AND APPROVAL. ONCE APPROVED, SUBMIT SHOP DRAWINGS TO CODE REVIEWER/INSPECTOR(S) FOR APPROVAL. SHOP DRAWINGS TO BE SIGNED AND SEALED AND BY A NEW JERSEY PROFESSIONAL ENGINEER.
- EXPAND EXISTING FIRE ALARM SYSTEM AS REQUIRED TO CONNECT NEW DEVICES. PROVIDE ALL NEW HARDWARE, RELAYS, MODULES, WIRING, BATTERIES, ECT., AS NECESSARY FOR COMPLETE INSTALLATION.
- PROVIDE ALL PROGRAMMING BY A FACTORY CERTIFIED VENDOR AS REQUIRED TO MAKE THE NECESSARY MODIFICATION TO THE SYSTEM. INCLUDE ANY HARDWARE, WIRING OR COMPONENTS NECESSARY FOR CONTINUED REUSE.
- ACTIVATION OF THE ANSUL SYSTEM, SHALL TURN ON KEF-01.
- PROVIDE AN ENABLE/DISABLED SIGNAL TO THE BUILDING AUTOMATION HVAC CONTROL SYSTEM TO INDICATE THE STATUS OF THE HVAC EQUIPMENT.
- PROVIDE AT EACH LOCATION SHOWN, AUDIO/VISUAL DEVICES WITH OUTPUT LEVELS AS RECOMMENDED BY MANUFACTURER FOR THE SPACE TO COMPLY WITH ADA & CODE REQUIREMENTS. PROVIDE ADDITIONAL DEVICES TO THOSE SHOWN IF/AS REQUIRED TO MEET LEVELS AT NO ADDITIONAL COST.
- PROVIDE CARBON MONOXIDE DETECTORS AT ALL MECHANICAL EQUIPMENT UTILIZING NATURAL GAS. PROVIDE CARBON MONOXIDE DETECTORS WITHIN THE SPACES SERVED BY GAS FIRED MECHANICAL EQUIPMENT.
- ALL FIRE ALARM CONTROL PANELS, REMOTE ANNUNCIATORS, AND BOOSTER PANELS SHALL HAVE SMOKE DETECTOR COVERAGE ABOVE. PROVIDE DEVICES WHETHER SHOWN ON PLANS OR NOT.
- UPON COMPLETION OF FIRE ALARM WORK, PROVIDE A RE-ACCEPTANCE TEST OF THE ENTIRE SYSTEM PER NFPA 72.



KEY PLAN



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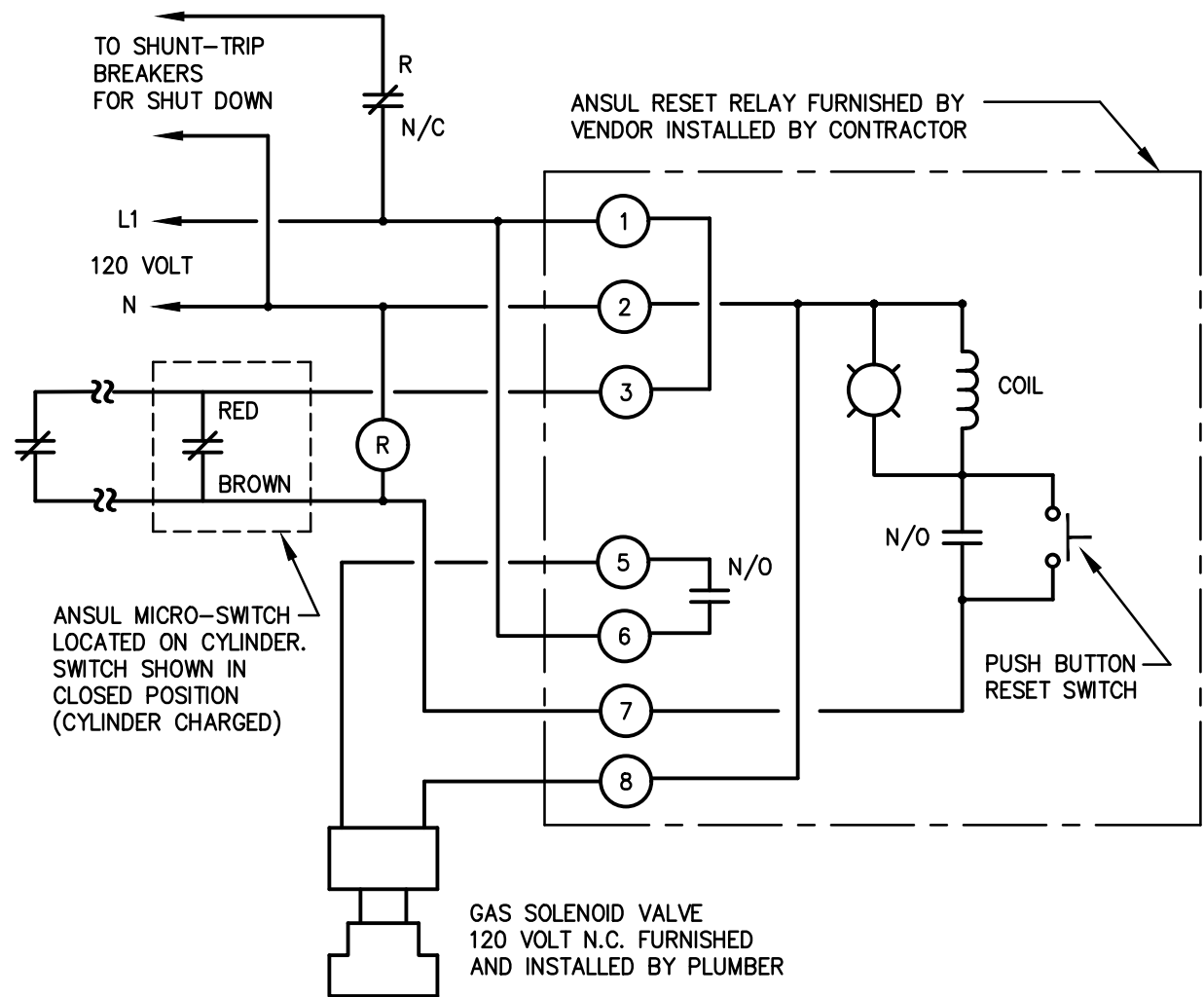
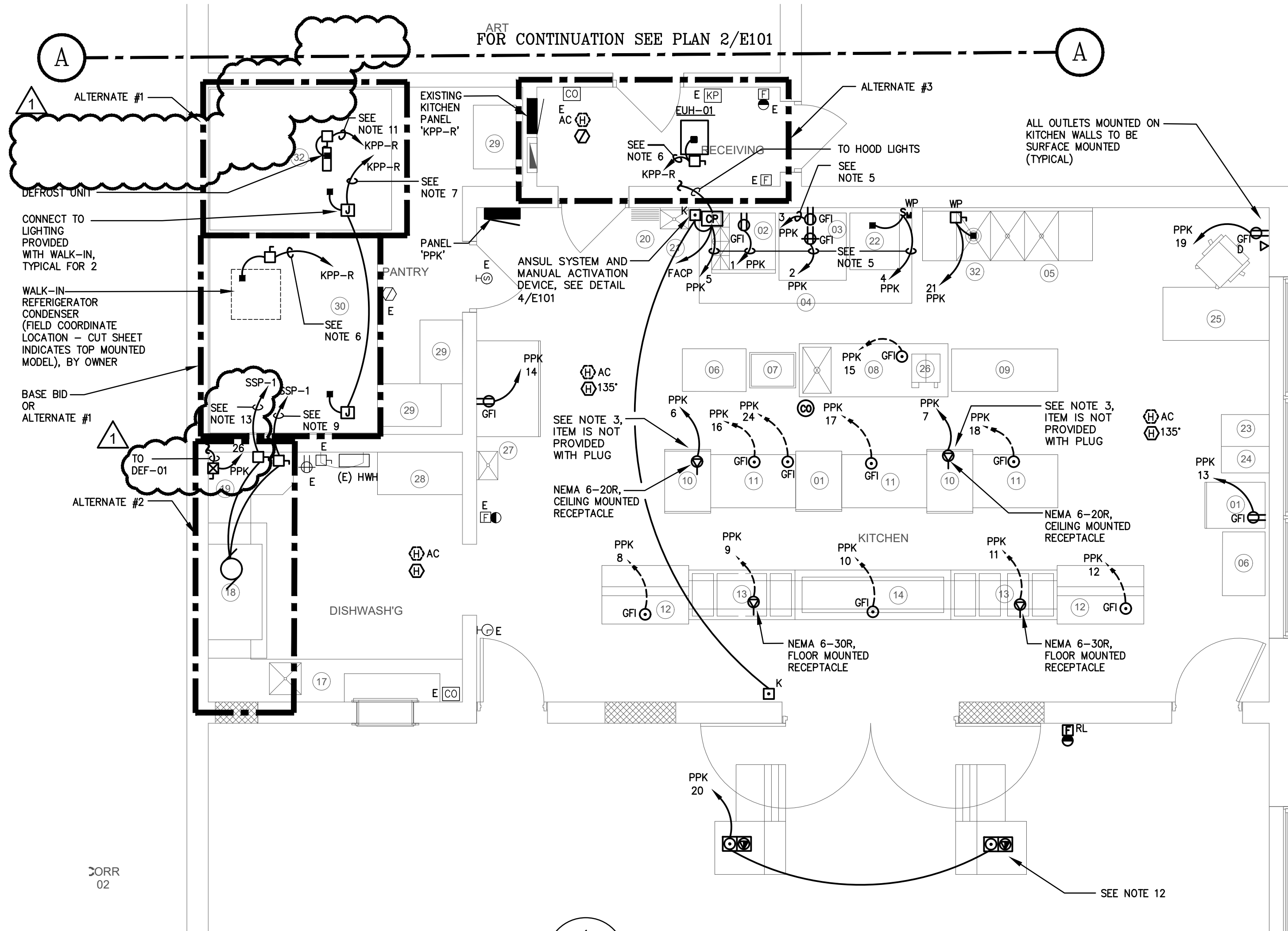
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DRAWING DATE:	20 JUNE 2025
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DRAWN BY:	AS
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E-100

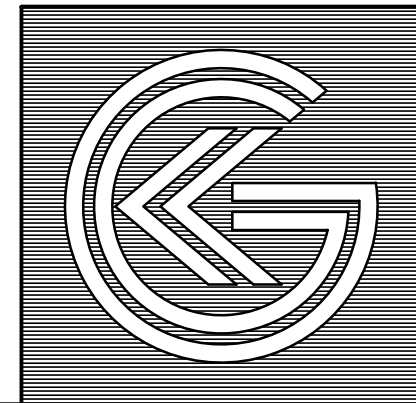
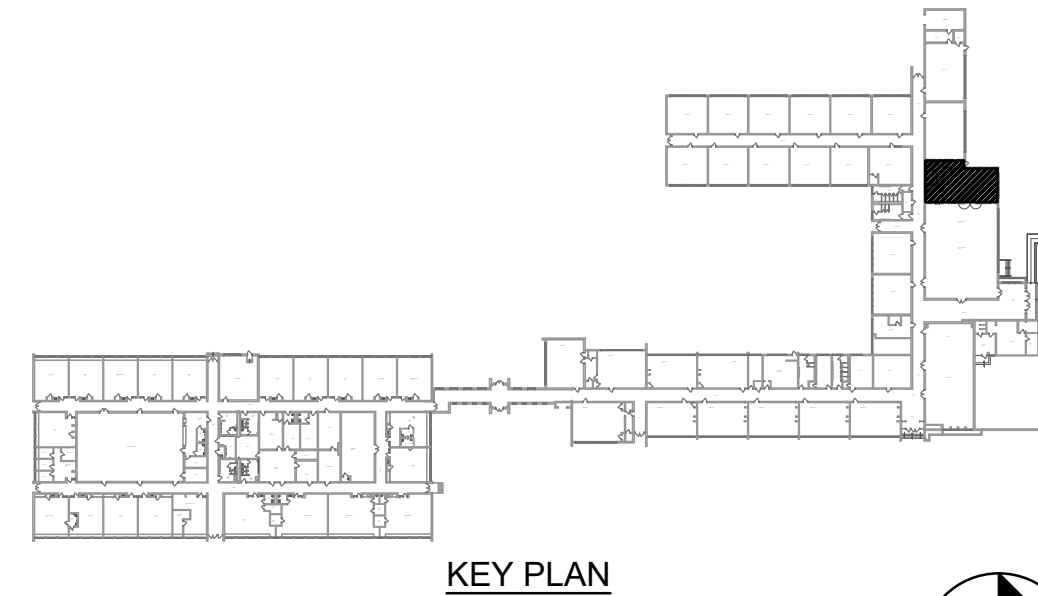
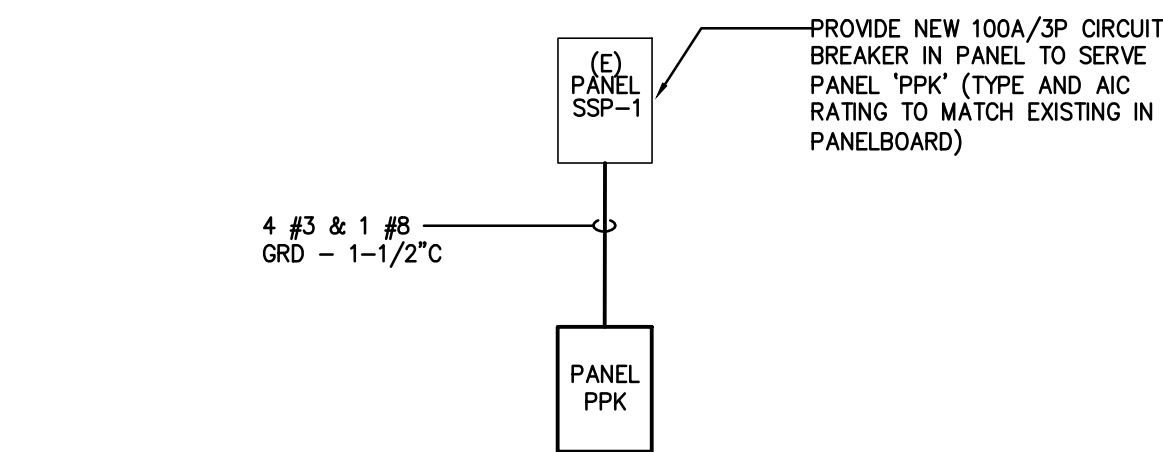
02 OF 04

DRAWING REFERENCE SCALE, VERIFY ACTUAL SIZE AND ADJUST AS REQUIRED



PANELBOARD 'PPK'						
208/120V, 3ø, 4W, S/N, SURFACE, 100A MAIN LUGS ONLY, 22 KAIC						
CKT. NO.	CIRCUIT BREAKER	LOAD		CIRCUIT DESCRIPTION	WIRE & CONDUIT	
	AMPS	POLES	KVA	HP		
* 1	20	1	0.48	-	RANGE	2 #12 & 1 #12 GRD - 3/4"C
* 2	20	1	0.7	-	DOUBLE OVEN	2 #12 & 1 #12 GRD - 3/4"C
* 3	20	1	0.2	-	GAS SOLENOID VALVE	2 #12 & 1 #12 GRD - 3/4"C
* 4	20	1	-	-	STEAMER	2 #12 & 1 #12 GRD - 3/4"C
5	15	1	0.4	-	KITCHEN HOOD	2 #12 & 1 #12 GRD - 3/4"C
** 6	20	2	1.5	-	PASS-THRU HOT FOOD WARMER	2 #12 & 1 #12 GRD - 3/4"C
** 7	20	2	1.5	-	PASS-THRU HOT FOOD WARMER	2 #12 & 1 #12 GRD - 3/4"C
8	20	1	0.9	-	MILK COOLER	2 #12 & 1 #12 GRD - 3/4"C
** 9	30	2	4.0	-	HOT FOOD COUNTER	2 #10 & 1 #10 GRD - 3/4"C
10	20	1	0.92	-	COLD FOOD COUNTER	2 #12 & 1 #12 GRD - 3/4"C
** 11	30	2	4.0	-	HOT FOOD COUNTER	2 #10 & 1 #10 GRD - 3/4"C
12	20	1	0.9	-	MILK COOLER	2 #12 & 1 #12 GRD - 3/4"C
13	20	1	0.6	-	REFRIGERATOR	2 #12 & 1 #12 GRD - 3/4"C
14	20	1	-	-	REACH-IN REFRIGERATOR	2 #12 & 1 #12 GRD - 3/4"C
15	20	1	0.18	-	MOBILE TABLE FLOOR RECEP	2 #12 & 1 #12 GRD - 3/4"C
16	20	1	0.18	-	MOBILE TABLE FLOOR RECEP	2 #12 & 1 #12 GRD - 3/4"C
17	20	1	0.18	-	MOBILE TABLE FLOOR RECEP	2 #12 & 1 #12 GRD - 3/4"C
18	20	1	0.18	-	MOBILE TABLE FLOOR RECEP	2 #12 & 1 #12 GRD - 3/4"C
19	20	1	0.18	-	RECEP. FOR KITCHEN WORKSTAT.	2 #12 & 1 #12 GRD - 3/4"C
20	20	1	0.36	-	CASHIER STATION	2 #12 & 1 #12 GRD - 3/4"C
** 21	20	3	1.59	-	DISPOSAL UNIT	3 #12 & 1 #12 GRD - 3/4"C
22	20	2	-	-	SPARE	-
23	20	1	0.2	-	ROOF RECEP/LTG	2 #12 & 1 #12 GRD - 3/4"C
24	20	1	0.6	-	REFRIGERATOR	2 #12 & 1 #12 GRD - 3/4"C
25	20	1	0.25	-	KITCHEN LTG	2 #12 & 1 #12 GRD - 3/4"C
26	20	1	0.7	1/3	DEF-01	2 #12 & 1 #12 GRD - 3/4"C
27	20	1	-	-	SPARE	-
28	20	1	-	-	SPARE	-
29	20	1	-	-	SPARE	-
30	20	1	-	-	SPARE	-
31	20	1	-	-	SPARE	-
32	20	1	-	-	SPARE	-
33	20	1	-	-	SPARE	-
34	20	1	-	-	SPARE	-
35	20	1	-	-	SPARE	-
21.44 TOTAL CONNECTED LOAD						

- * PROVIDE SHUNT TRIP CIRCUIT BREAKER
** PROVIDE GFI RATED CIRCUIT BREAKER



KELTER & GILLIGO
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P.O. BOX 777, 196 PRINCETON-HIGHTSTOWN RD.
PRINCETON JUNCTION NEW JERSEY 08550

Frank Tindall, P.E.
Professional Engineer
NJ 38656

REGAN YOUNG ENGLAND BUTERA
REFERENDUMS • ENGINEERING • ARCHITECTURE • DESIGN

456 HIGH STREET • MT. HOLLY, NEW JERSEY 08060 USA
+1(609)265-2652/0333FAX • 21A100912100 • RYEBREAD.COM

NJDOE SP #05-1280-050

PROJECT TITLE & ADDRESS:

MAGOWAN KITCHEN
MAGOWAN ELEMENTARY SCHOOL
LOT 1 / BLOCK 705
405 CHERRIX AVENUE
EDGEWATER PARK, NEW JERSEY
08010

OWNER'S ADDRESS:

EDGEWATER PARK TOWNSHIP BOE
25 WASHINGTON AVENUE
EDGEWATER PARK, NEW JERSEY
08010

PROJECT NO.: **5760C**

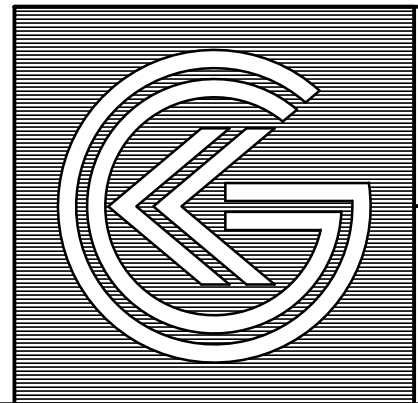
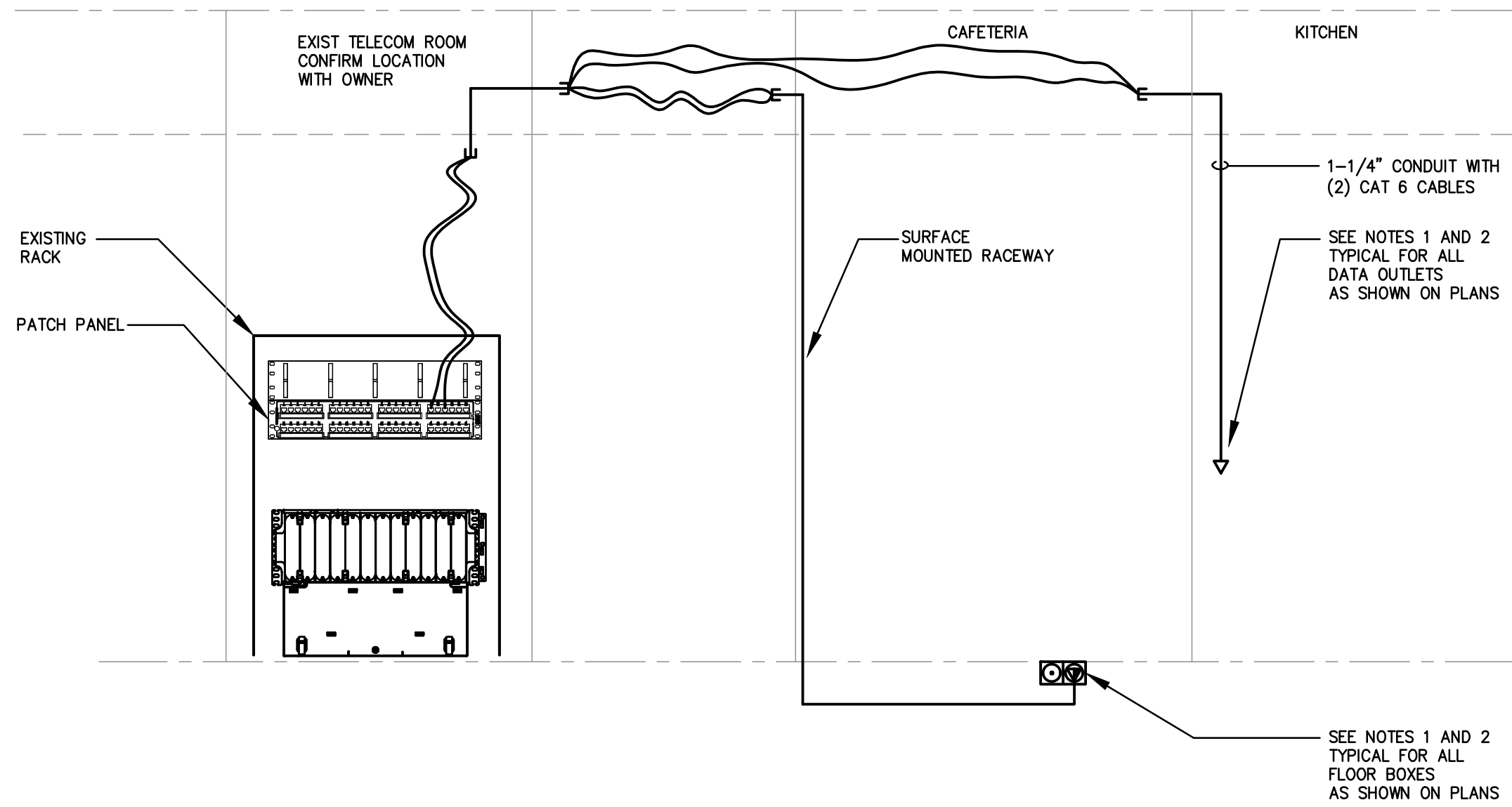
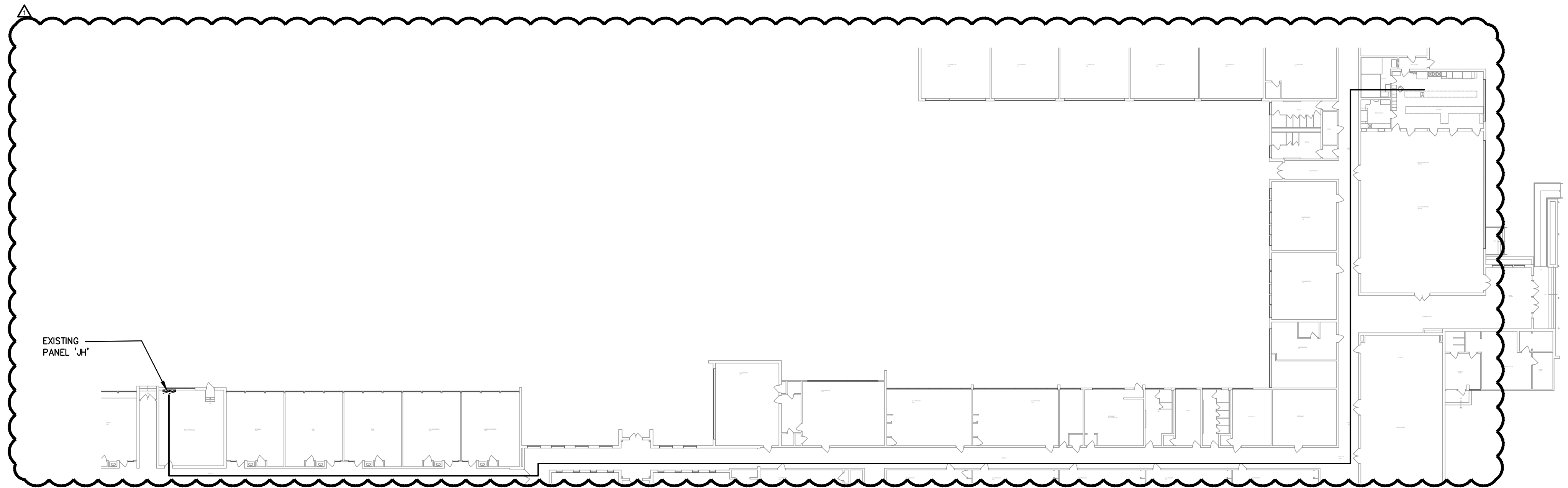
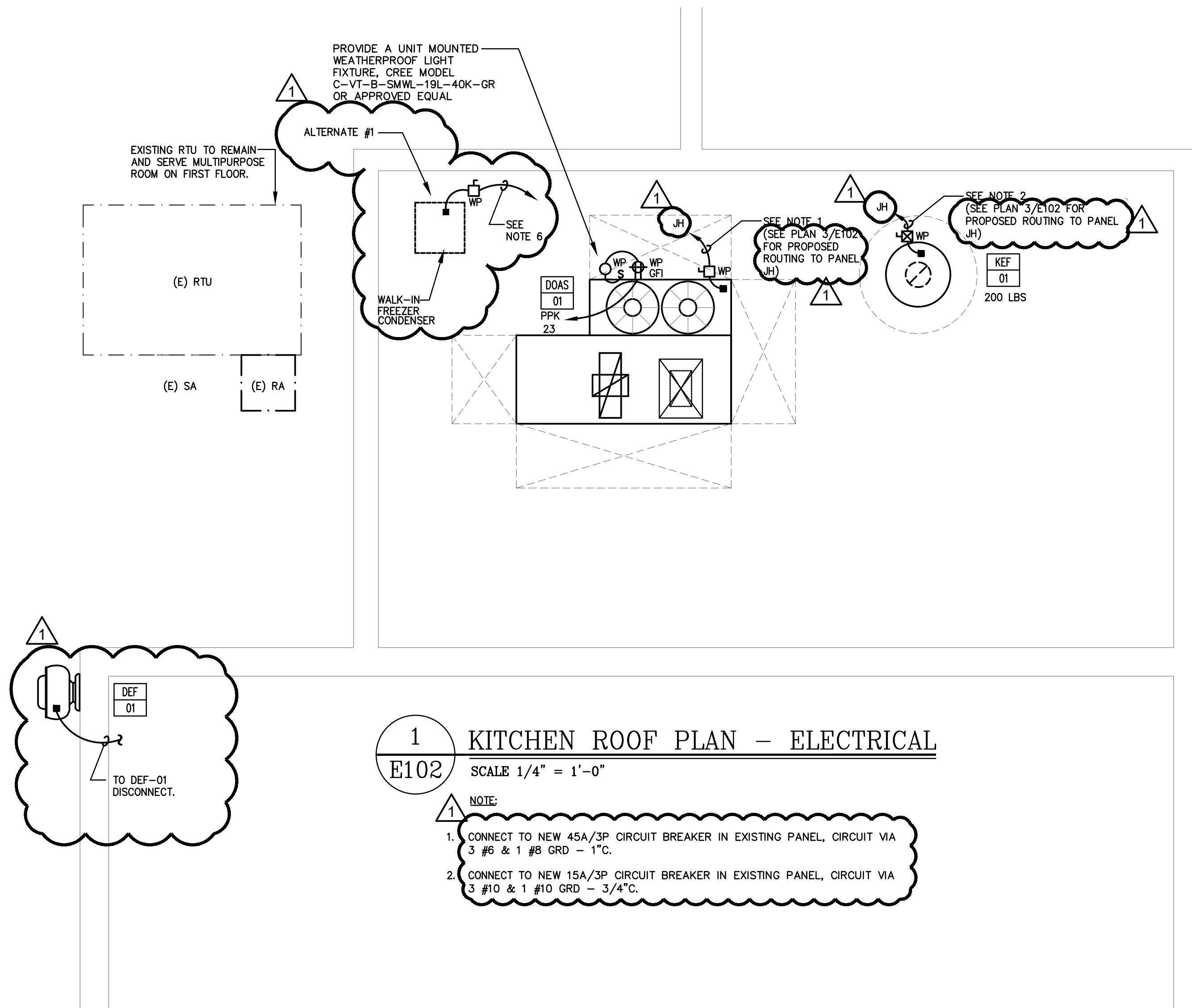
REVISION DATE:	
11/18/25	ADD-02

DRAWING DATE:	20 JUNE 2025
PRINT DATE:	
DRAWN BY:	AS
SHEET TITLE:	KITCHEN PLAN - POWER

E-101
03 OF 04

DRAWING REFERENCE SCALE. VERIFY ACTUAL SIZE AND ADJUST AS REQUIRED.

0" 1" 2"



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REVISION DATE:	
11/18/25	ADD-02

DRAWING DATE:	20 JUNE 2025
PRINT DATE:	
DRAWN BY:	AS
SHEET TITLE:	KITCHEN ROOF PLAN - ELECTRICAL

E-102

04 OF 04