

ELECTRICAL GENERAL NOTES

- DRAWINGS ARE DIAGRAMMATIC AND INDICATE GENERAL ARRANGEMENT OF SYSTEMS AND WORK. FOLLOW DRAWINGS IN LAYING OUT WORK AND CHECK DRAWINGS OF OTHER TRADES TO VERIFY SPACE CONDITIONS. MAINTAIN HEADROOM AND SPACE CONDITIONS IN ALL CASES.
- THE CONTRACTOR SHALL BRING ANY CONFLICTS IN THE DRAWINGS TO THE ATTENTION OF THE ENGINEER DURING THE BIDDING PROCESS. IF NOT BROUGHT UP TO THE ENGINEER DURING THE BIDDING PROCESS THE MORE EXPENSIVE OPTION SHALL BE CHOSEN FOR BIDDING PURPOSES.
- PASS RACEWAYS OVER WATER, STEAM OR OTHER PIPING WHEN PULL BOXES ARE NOT REQUIRED. NO TRACWAY SHALL BE INSTALLED WITHIN 6" OF STEAM OR HOT WATER PIPES OR APPLIANCES (EXCEPT PIPE CROSSINGS WHERE RACEWAY SHALL BE AT LEAST 3" FROM PIPE COVERS).
- CUT CONDUIT ENDS SQUARE, REAM SMOOTH. PAINT WELD THREAD OF FIELD THREADED RACEWAYS WITH GRAPITE BASE PIPE COMPOUND. DRAW UP TIGHT WITH RACEWAY COUPLING.
- HORIZONTAL OR CROSS RUNS IN PARTITIONS AND WALLS ARE NOT PERMITTED.
- DO NOT RUN CONDUIT IN PRECAST ROOF SLABS, IN 2" SLABS OR IN TERRAZZO FLOOR FINISH.
- LEAVE WIRES WITH SUFFICIENT SLACK TO PERMIT FINAL CONNECTIONS.
- PROVIDE NYLON FISH WIRE IN ALL EMPTY RACEWAYS OVER 1/2 LONG.
- PROVIDE PULL BOXES EVERY 100' AND WHEREVER REQUIRED BY CODE FOR ALL EMPTY RACEWAY RUNS. COORDINATE PULLBOX LOCATIONS WITH OTHER TRADES IN FIELD.
- VERIFY LOCATIONS OF OUTLETS AND SWITCHES IN FINISHED ROOMS WITH ARCHITECTURAL DRAWINGS OF INTERIOR DETAILS AND FINISH. IN CENTERS OF OUTLETS AND LOCATING BOXES AND OUTLETS, ALLOW FOR OVERHEAD PIPES, DUCTS AND MECHANICAL EQUIPMENT. VARIATIONS IN FIREPROOFING AND PLASTERING, WINDOW AND DOOR TRIM, PANELING, HUNG CEILINGS AND THE LIKE, CORRECT ANY INACCURACY RESULTING FROM FAILURE TO DO SO WITHOUT EXPENSE TO OWNER.
- LOCATIONS INDICATED FOR LOCAL WALL SWITCHES ARE SUBJECT TO MODIFICATIONS AT OR NEAR DOORS. COORDINATE WITH ARCHITECT AND INSTALL SWITCH ON SIDE OPPOSITE HINGE. VERIFY FINAL HINGE LOCATIONS IN FIELD PRIOR TO SWITCH OUTLET INSTALLATION.
- COVERS OF JUNCTION AND PULLBOXES SHALL BE READILY ACCESSIBLE.
- PROVIDE PULLBOXES WHERE INDICATED. WHERE REQUIRED BY CODE AND WHEREVER NECESSARY TO FACILITATE PULLING OF WIRE, COORDINATE PULLBOX LOCATIONS WITH OTHER TRADES.
- GENERALLY, DO NOT LOCATE JUNCTION AND PULL BOXES EXPOSED IN FINISHED SPACES. WHERE NECESSARY, RELOCATE RACEWAYS OR MAKE OTHER ARRANGEMENTS FOR CONCEALMENT.
- SUPPORT PANEL, JUNCTION AND PULLBOXES INDEPENDENTLY TO BUILDING STRUCTURE, WITH NO WEIGHT BEARING ON RACEWAYS.
- EC IS RESPONSIBLE TO PROVIDE ACCESS PANELS FOR ANY CONCEALED ELECTRICAL WORK THAT MUST BE ACCESSIBLE EITHER BY CODE OR AS INDICATED IN THE DOCUMENTS. ALL ACCESS DOOR LOCATIONS SHALL BE REVIEWED AND APPROVED BY ARCHITECT PRIOR TO INSTALLATION OF DEVICE REQUIRING THE ACCESS PANEL. ALL ACCESS DOORS MUST MATCH THE FIRE RATING AND CONSTRUCTION TYPE OF THE CEILING OR WALL. PENETRATION AS DESIGNATED ON THE ARCHITECTURAL DRAWINGS.
- ALL ELECTRICAL EQUIPMENT INCLUDING BUT NOT LIMITED TO RACEWAYS, PULLBOXES, LUMINAIRES ETC. SHALL BE HUNG FROM THE TOP CORD OR THE TOP OF A STEEL I BEAM ONLY IN A STEEL STRUCTURE BUILDING.
- CONNECT CONDUIT TO MOTOR CONDUIT TERMINAL BOXES WITH FLEXIBLE CONDUIT (MINIMUM 18" AND 50% SLACK). DO NOT TERMINATE IN OR FASTEN RACEWAYS TO MOTOR FOUNDATION.
- PROVIDE 3/14 INDICATING PILOT LIGHT WIRES FROM PILOT LIGHT IN CONTROLLER TO LOAD SIDE OF DISCONNECT SWITCH. RUN WIRES IN BRANCH CIRCUIT CONDUIT AND INCREASE CONDUIT SIZE AS REQUIRED.
- PULL NO THERMOPLASTIC WIRES AT TEMPERATURES BELOW 32°F. PROVIDE CABLE SUPPORTS FOR WIRE.
- IN RISER CONDUITS AS REQUIRED BY CODE. PROVIDE SEPARATE RACEWAYS FOR CONDUCTORS OF NORMAL AND EMERGENCY CIRCUITS. WHERE COMMON BOXES ARE USED, PROVIDE BARRIERS BETWEEN NORMAL AND EMERGENCY WIRING.
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GENERAL NOTES

THE CONTRACTOR SHALL CONFORM TO THE LATEST BUILDING CODES.

2018 NEW JERSEY INTERNATIONAL BUILDING CODE

NEC 2017 WITH NEW JERSEY AMENDMENTS

APPLICABLE CODES

NEC 110-16

ALL SWITCHBOARDS (EACH SECTION), PANELBOARDS, ENCLOSED BREAKERS/SWITCHES, AT'SS, TRANSFORMERS, MOTOR STARTES, CONTRACTORS, INDUSTRIAL CONTROL PANELS, AND MOTOR CONTROL CENTERS SHALL BE FIELD MARKED TO WARN QUALIFIED PERSONS OF POTENTIAL ELECTRIC ARC FLASH HAZARDS. THE MARKING SHALL BE LOCATED IN A CLEARLY VISIBLE LOCATION TO QUALIFIED PERSON BEFORE EXAMINATION, ADJUSTMENT, SERVICING, OR MAINTENANCE OF THE EQUIPMENT.

POWER DEVICES

- ① SIMPLEX RECEPTACLE
- ② DUPLEX RECEPTACLE
- ③ CEILING MOUNTED RECEPTACLE
- ④ GFCI TYPE RECEPTACLE
- ⑤ QUAD RECEPTACLE
- ⑥ FLOOR MOUNTED RECEPTACLE
- ⑦ SPECIAL PURPOSE RECEPTACLE MATCH EQUIPMENT SERVED
- ⑧ TAMPERPROOF DUPLEX RECEPTACLE
- ⑨ EXPLOSION PROOF RECEPTACLE
- ⑩ ISOLATED GROUND RECEPTACLE
- ⑪ SIMPLEX ISOLATED GROUND RECEPTACLE
- ⑫ FLOOR OUTLET, PROVIDE DEVICE AS SHOWN ON DRAWINGS.
- ⑬ FLOOR OUTLET WITH STUB UP, PROVIDE DEVICE AS SHOWN ON DRAWINGS.
- ⑭ FIRE RATED FLOOR OUTLET, PROVIDE DEVICE AS SHOWN ON DRAWINGS.
- ⑮ ① INDICATES CIRCUIT NUMBER
- ⑯ ① WP INDICATES DEVICE HAS A WEATHER-PROOF WHILE IN USE COVER.
- ⑰ ① INDICATES DEVICE IS MOUNTED ABOVE THE COUNTER.
- ⑱ ① ENCLOSED CIRCUIT BREAKER
- ⑲ ① UNFUSED DISCONNECT SWITCH
- ⑳ ① FUSED DISCONNECT SWITCH
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POWER DEVICES

- ① CONCEALED JUNCTION BOX
- ② SURFACE MOUNTED JUNCTION BOX
- ③ 208V PANEL, U.O.N.
- ④ 480V PANEL, U.O.N.
- ⑤ SYSTEM PANEL
- ⑥ FA = FIRE ALARM
- ⑦ SEC = SECURITY
- ⑧ LIGHT = LIGHTING CONTROL
- ⑨ GROUND
- ⑩ AX = FIXTURE TYPE
- ⑪ XXX/XX = LOWER CASE LETTER INDICATES LOCAL SWITCH DESIGNATION.
- ⑫ C = CIRCUIT NUMBER, REFER TO THE PANELSCHEDULES FOR ADDITIONAL INFORMATION.
- ⑬ PANEL ID(NAME) UNLESS OTHERWISE NOTED.
- ⑭ SERVICE LIGHT LUMINAIRE
- ⑮ FIRE ALARM DEVICES
- ⑯ SINGLE DOOR HOLDERS
- ⑰ DOUBLE DOOR HOLDERS
- ⑱ FIRE ALARM BELL
- ⑲ SS = SINGLE STROKE
- ⑳ T = TRIUBLE
- ㉑ V = VIBRATING
- ㉒ G = GONG
- ㉓ FIRE ALARM STROBE
- ㉔ UNLESS OTHERWISE NOTED, ALL STROBES SHALL BE 1500(CANDELLA) TYPE.
- ㉕ C = CEILING MOUNTED. TYPICAL ALL FIRE ALARM DEVICES.
- ㉖ FIRE ALARM CHIME - ELECTRONIC TYPE
- ㉗ FIRE ALARM HORN
- ㉘ FIRE ALARM MINI HORN
- ㉙ FIRE ALARM HORNSTROBE
- ㉚ UNLESS OTHERWISE NOTED, ALL STROBES SHALL BE 1500(CANDELLA) TYPE.
- ㉛ REMOTE TEST SWITCH - LOCATE IN CEILING SPACE BELOW HVAC UNIT.
- ㉜ FIRE SMOKE DETECTOR
- ㉝ PE = PHOTOELECTRIC TYPE
- ㉞ IO = IONIZATION TYPE
- ㉟ ID = IN DUCT
- ㊱ AS = AIR SAMPLING
- ㊲ R = RELAY BASE
- ㊳ GAS DETECTION DEVICE
- ㊴ CO2 = CARBON DIOXIDE DETECTOR
- ㊵ CO = CARBON MONOXIDE DETECTOR
- ㊶ HOL = HYDROGEN HALORIDE DETECTOR
- ㊷ CH4 = METHANE DETECTOR
- ㊸ * DETECTORS SHALL HAVE A SOUNDER BASE WITH DISTINCT AND SEPARATE SOUND FROM MAIN SYSTEM
- ㊹ HEAT DETECTION DEVICE
- ㊺ RF = COMBINATION RATE OF RISE/FIXED TEMPERATURE
- ㊻ F = FIXED TEMPERATURE
- ㊼ R-C = RATE COMPENSATION
- ㊽ R = RATE OF RISE ONLY
- ㊾ ** UNLESS OTHERWISE NOTED TEMPERATURE RATINGS SHALL BE 135 DEGREES FAHRENHEIT.
- ㊿ ADDRESSABLE INPUT MONITOR MODULE
- ① ADDRESSABLE INPUT MONITOR MODULE, # DENOTES NUMBER OF INPUTS AND OUTPUTS
- ② ADDRESSABLE OUTPUT CONTROL MODULE
- ③ INTERFACE AND SUPERVISORY DEVICE
- ④ WF = FLOW DETECTOR/SWITCH
- ⑤ HT = HIGH TEMPERATURE SWITCH
- ⑥ LS = LEVEL DETECTOR/SWITCH
- ⑦ LT = LOW TEMPERATURE SWITCH
- ⑧ PS = PRESSURE DETECTOR SWITCH
- ⑨ VS = VALVE SUPERVISORY SWITCH
- ⑩ DRAWING NOTE - Y DENOTES NOTE NUMBER SHOWN ON PLAN
- ⑪ KEY NOTE - Y DENOTES NOTE NUMBER SHOWN FOR ALL ELECTRICAL PLANS
- ⑫ DEMOLITION NOTE - Y DENOTES NOTE NUMBER SHOWN ON PLAN
- ⑬ ALL UNUSED OUTLET BOXES OR CAPPED FLOOR OUTLETS SHALL BE PROVIDED WITH MATCHING BLANK COVERS
- ⑭ PORTIONS OF FEEDER RINGS TO BE REMOVED OR ABANDONED AS A RESULT OF DEMOLITION WORK, BUT WHICH ARE REQUIRED TO REMAIN ENERGIZED, SHALL BE CUT AT CONVENIENT LOCATIONS, REROUTED AND RECONNECTED. NEW FEEDER EXTENSIONS SHALL MATCH EXISTING IN CABLE TYPE, AMPACITY, CONDUIT SIZE, ETC.
- ⑮ THE CONTRACTOR SHALL NOTIFY THE OWNER OF THE PROJECTED DEMOLITION AND PHASING SCHEDULE SO THAT REMOVAL OR RELOCATION OF AFFECTED UTILITIES MAY BE CARRIED OUT IN FULL COORDINATION WITH THE PROJECT REQUIREMENTS. THE CONTRACTOR SHALL FOLLOW THE ARCHITECTS DEMOLITION AND PHASING SCHEDULE, AND PROCEED IN THE APPROPRIATE, SPECIFIED SEQUENCE.
- ⑯ ALL EXISTING MATERIAL WHICH IS SPECIFIED TO BE REMOVED UNDER THIS CONTRACT, SHALL BECOME THE PROPERTY OF THE CONTRACTOR, AND SHALL BE DISPOSED OF IN ACCORDANCE WITH ALL APPLICABLE LAWS AND REGULATIONS.
- ⑰ ALL EXISTING MATERIAL WHICH IS SPECIFIED TO BE REMOVED AND REUSED OR RETURNED TO THE OWNER SHALL BE CAREFULLY REMOVED AND PRESERVED, AND TURNED OVER TO THE OWNER IN OPERABLE CONDITION.
- ⑱ ARRANGE TO WORK CONTINUOUSLY, INCLUDING OVERTIME, IF REQUIRED, TO ASSURE THAT SYSTEMS SHUTDOWNS WILL BE MINIMIZED, AND LIMITED TO THE TIME REQUIRED TO MAKE FINAL CONNECTIONS AND PERFORM NECESSARY TESTS TO ASSURE CORRECT INSTALLATION.
- ⑳ THE SHUTDOWN OF EXISTING BUILDING SERVICES SHALL BE COORDINATED WITH THE OWNER. ARRANGEMENTS SHALL BE MADE, IN WRITING, AT LEAST FIVE (5) BUSINESS DAYS PRIOR TO ANY SCHEDULED SHUTDOWN.
- ㉑ ALL RACEWAYS WHICH BECOME EXPOSED DURING THE ALTERATION WORK SHALL BE REMOVED AND REROUTED CONCEALED BEHIND FINISHED SURFACES.

LUMINAIRES

- AX = FIXTURE TYPE
- XXX/XX = LOWER CASE LETTER INDICATES LOCAL SWITCH DESIGNATION.
- C = CIRCUIT NUMBER, REFER TO THE PANELSCHEDULES FOR ADDITIONAL INFORMATION.
- PANEL ID(NAME) UNLESS OTHERWISE NOTED.
- SERVICE LIGHT LUMINAIRE
- FIRE ALARM DEVICES
- SINGLE DOOR HOLDERS
- DOUBLE DOOR HOLDERS
- FIRE ALARM BELL
- SS = SINGLE STROKE
- T = TRIUBLE
- V = VIBRATING
- G = GONG
- FIRE ALARM STROBE
- UNLESS OTHERWISE NOTED, ALL STROBES SHALL BE 1500(CANDELLA) TYPE.
- C = CEILING MOUNTED. TYPICAL ALL FIRE ALARM DEVICES.
- FIRE ALARM CHIME - ELECTRONIC TYPE
- FIRE ALARM HORN
- FIRE ALARM MINI HORN
- FIRE ALARM HORNSTROBE
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- REMOTE TEST SWITCH - LOCATE IN CEILING SPACE BELOW HVAC UNIT.
- FIRE SMOKE DETECTOR
- PE = PHOTOELECTRIC TYPE
- IO = IONIZATION TYPE
- ID = IN DUCT
- AS = AIR SAMPLING
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- GAS DETECTION DEVICE
- CO2 = CARBON DIOXIDE DETECTOR
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- HOL = HYDROGEN HALORIDE DETECTOR
- CH4 = METHANE DETECTOR
- * DETECTORS SHALL HAVE A SOUNDER BASE WITH DISTINCT AND SEPARATE SOUND FROM MAIN SYSTEM
- HEAT DETECTION DEVICE
- RF = COMBINATION RATE OF RISE/FIXED TEMPERATURE
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FIRE ALARM DEVICES

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- FIRE ALARM BELL
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- ALL EXISTING MATERIAL WHICH IS SPECIFIED TO BE REMOVED UNDER THIS CONTRACT, SHALL BECOME THE PROPERTY OF THE CONTRACTOR, AND SHALL BE DISPOSED OF IN ACCORDANCE WITH ALL APPLICABLE LAWS AND REGULATIONS.
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FIRE ALARM CONT.

- FIRE ALARM SPEAKER/STROBE
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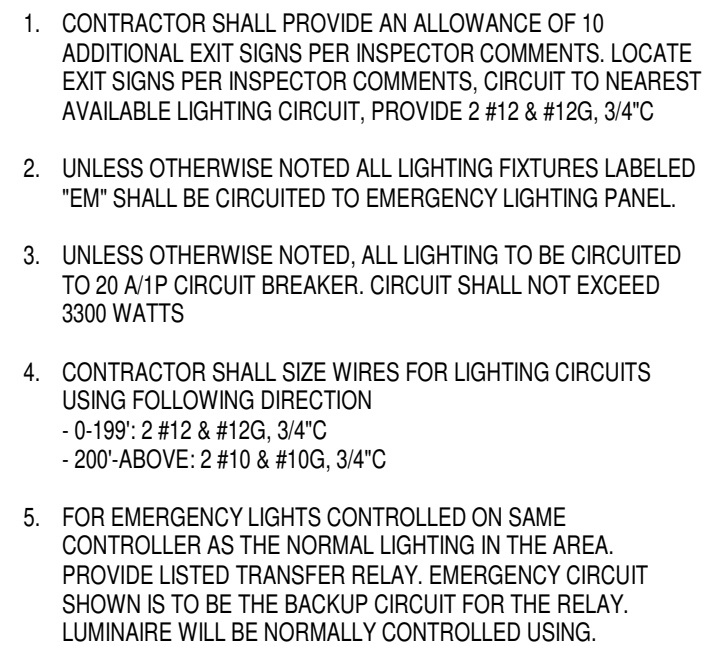
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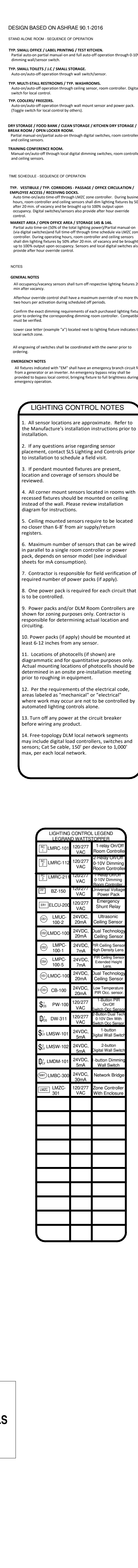
UNLESS OTHERWISE
NOTED, ALL LIGHTING IN
AREA TO BE CIRCUITED T
LP2

ELECTRICAL LIGHTING FIXTURES					
Type Mark	MANUFACTURER	Model	VOLTAGE	WATTAGE	
A	ALUM LIGHTING	AL-1692-P-48MD-840-L1840-U-S-SW-SA-19-XX	277	105 VA	
B	ALUM LIGHTING	AL-1692-P-24MD-840-L1840-U-S-SW-SA-19-XX	277	105 VA	
C	ELITE	4-DOW LED-700ML-DIM10-MVOLT-40K-85	277	58 VA	
D	ZANUSSON LIGHTING	PD1-119-03-6-0-3-1-B-20-DW-0V-0D	277	9 VA	
E	BOLD LIGHTING	PIF-NIC-U-1-H40-W-X-X-X-1	277	13 VA	
F	ELITE	24-PLBL-LED-3000L-4000L-5000L-DIM10-MVOLT-35K-40K-50K-85(500L)	277	49 VA	
G	ELITE LIGHTING	24-PLBL-LED-3000L-4000L-5000L-DIM10-120-347V-35K-40K-50K-85(500L)	277	42 VA	
H	LUX DYNAMICS	LUX-KR10P-E-3-CAH-03-840-3-119-CA2	277	62 VA	
J	ELITE	H01B-LED-1000L-DIM10-MVOLT-40K-85	277	71 VA	
K	ELITE LIGHTING	24-PLBL-LED-3000L-4000L-5000L-DIM10-MVOLT-35K-40K-50K-85(400L)	277	39 VA	
L	ELITE LIGHTING	24-PLBL-LED-3000L-4000L-5000L-DIM10-120-347V-35K-40K-50K-85(800L)	277	55 VA	
M	ELITE LIGHTING	24-PLBL-LED-3000L-4000L-5000L-DIM10-120-347V-35K-40K-50K-85(800L)	277	45 VA	
N	ELITE LIGHTING	24-PLBL-LED-6000L-7000L-8000L-DIM10-120-347V-35K-40K-50K-85(700L)	277	53 VA	
O	BOLD LIGHTING	CRF-NIC-T-U-S-840-M-WF-W-11	277	17 VA	
P	ORACLE LIGHTING	OWP-FG-104-LED-1600L-MVOLT-40K-85	277	17 VA	
Q	ELITE	24-0VHP-LED-1000SL-DIM10-MVOLT-40K-85	277	62 VA	
R	ELITE LIGHTING	24-PLBL-LED-3000L-4000L-5000L-DIM10-120-347V-35K-40K-50K-85(400L)	277	31 VA	
S	ELITE	24-PLBL-LED-12000L-DIM10-MVOLT-40K-85	277	83 VA	
T	LUX DYNAMICS	LUX-KR10P-E-3-CAH-03-840-3-119-CA2	277	117 VA	
U	PRUSIDENTIAL LIGHTING	24-0VLEA-LED-HO-D1-SS	277	62 VA	
V	ELITE	24-PLBL-LED-2000L-DIM10-MVOLT-40K-85	277	212 VA	
W	ELITE	24-PLBL-LED-2000L-DIM10-MVOLT-40K-85	277	139 VA	
X1	TO MATCH DESCRIPTION	EDGE LT RED LED EXT SIGN, FACES AND ARROWS AS INDICATED	277	104 VA	
X2	TO MATCH DESCRIPTION	THERMOPLASTIC IPSB RED LED EXT SIGN, FACES AND ARROWS AS INDICATED	277	5 VA	
Z	ELITE	LRG2-2403-3700-35K-XX-K40	277	154 VA	

* FOR BIDDING CONTRACTOR SHALL SEPERATE ALL LIGHTING FIXTURES INTO INDIVIDUAL LINE ITEMS

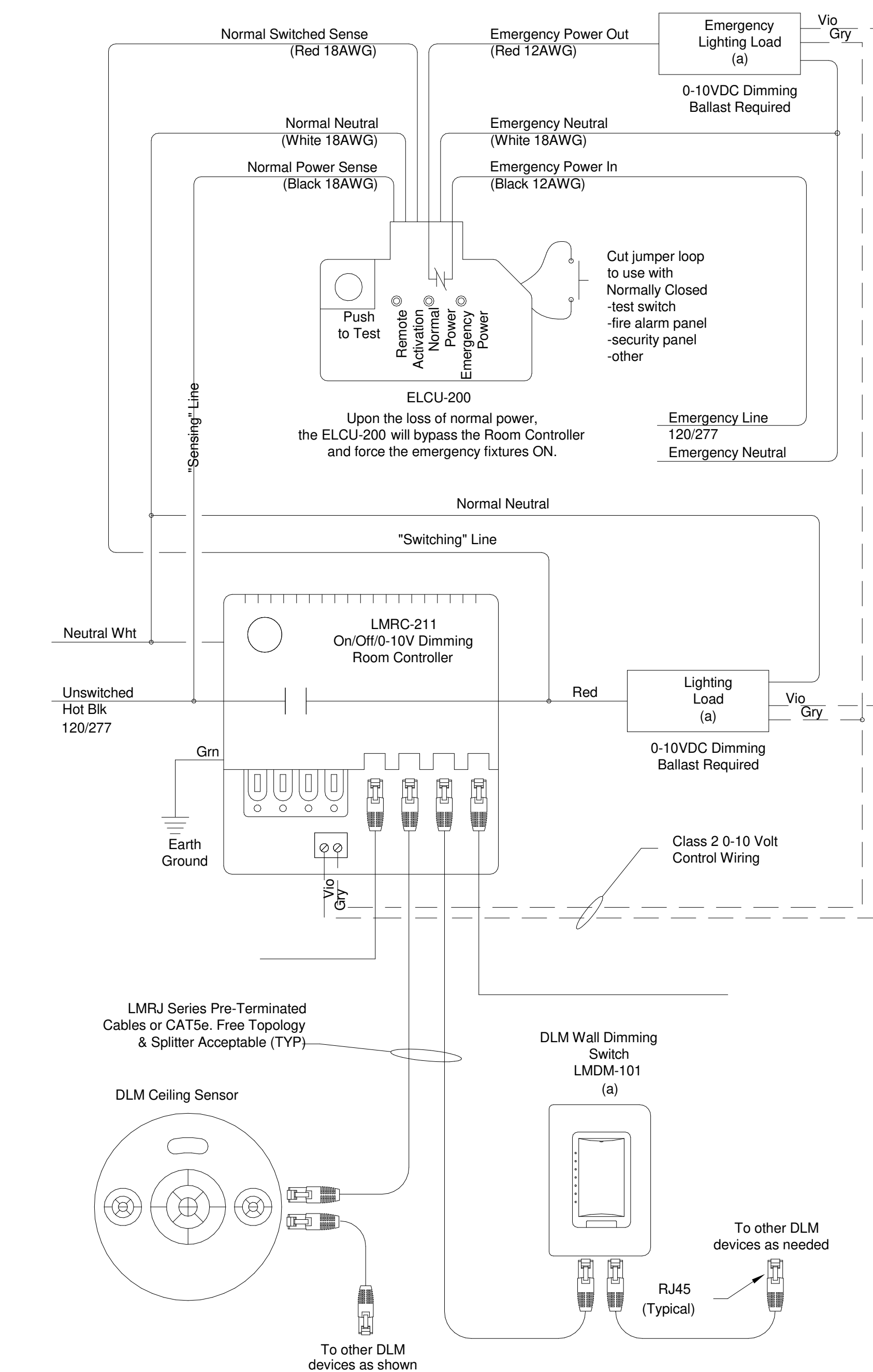
1 LIGHTING GROUND FLOOR PLAN
3/32" = 1'-0"

drawing name:	
ELECTRICAL LIGHTING PLAN	
scale:	As indicated
release date:	
drawing date:	09/24/2021
drawing by:	AW
approved by:	BT
project no.:	2102
drawing no.:	
E-300.00	
DOB BARCODE:	
Total	



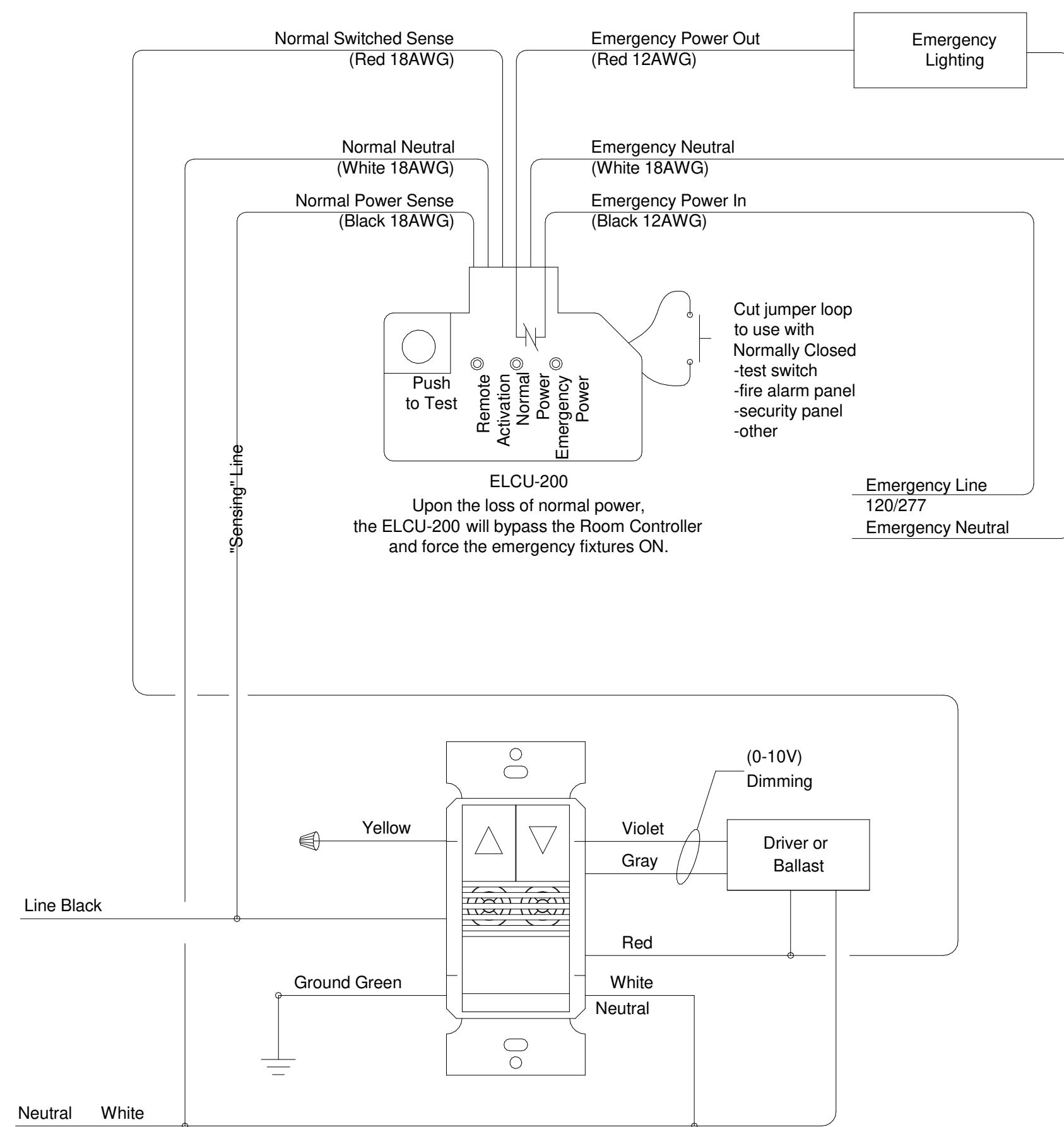
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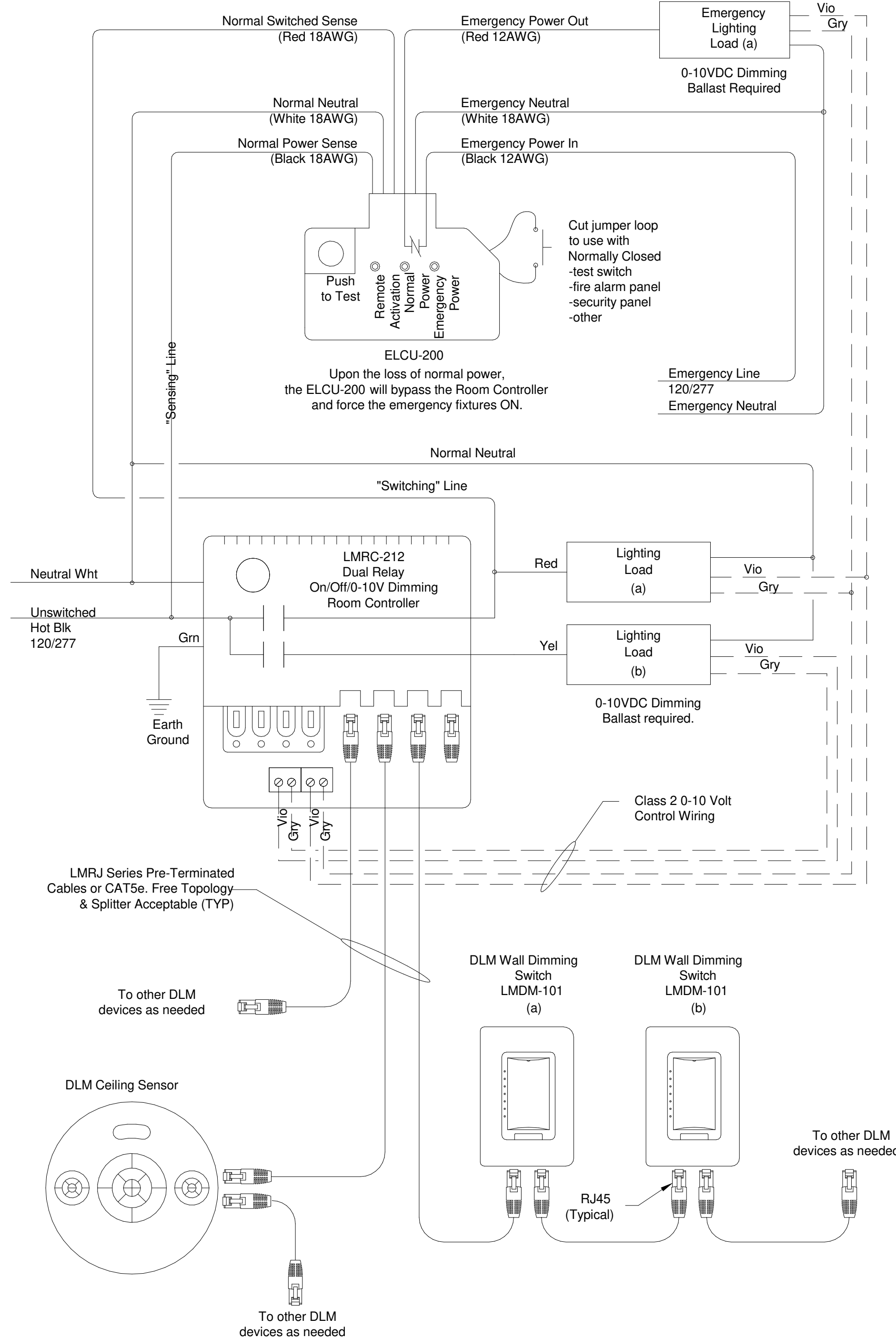


TYP. LMRC-211 WITH ELCU-200
WIRING DIAGRAM

NOTE: Refer to controls layout for exact quantity and model number of devices.

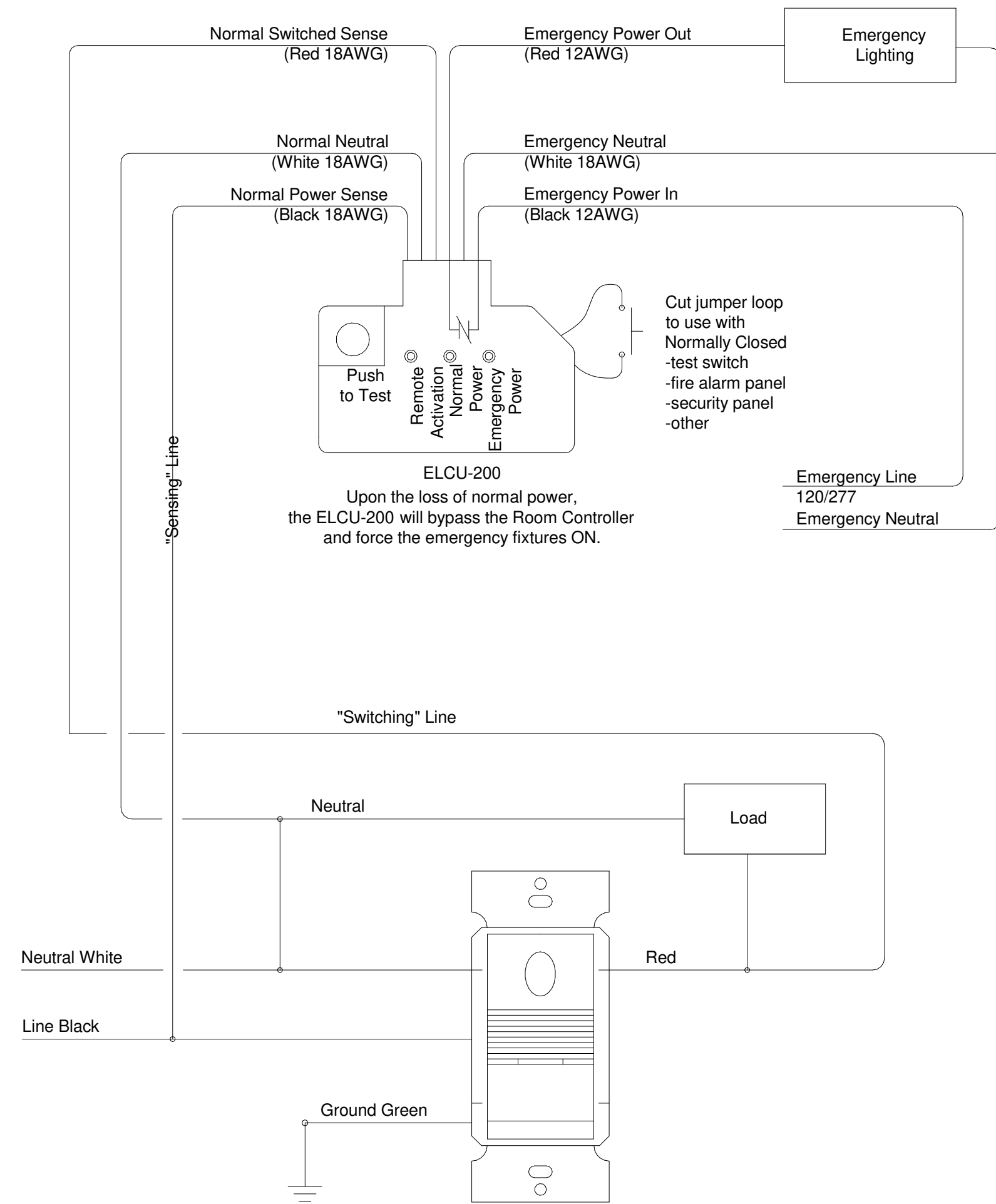
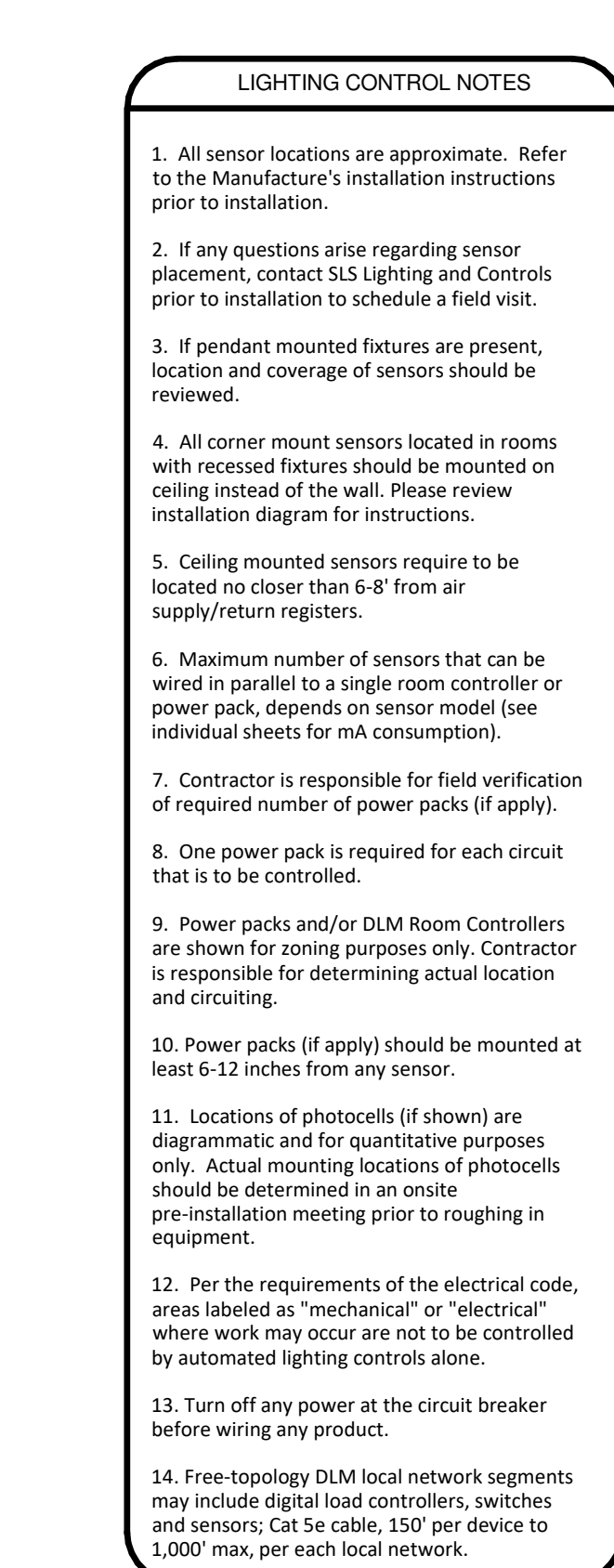


DW-311 WITH ELCU-200
WIRING DIAGRAM



TYP. LMRC-212 WITH ELCU-200 WIRING DIAGRAM

NOTE: Refer to controls layout for exact quantity and model number of devices.

PW-100 with ELCU-200
WIRING DIAGRAM

LIGHTING CONTROL LEGEND LEGRAND WATTS/TOPPER			
RC 1	LMRC-101	120/277 VAC	1-relay On/Off Room Controller
RC 2	LMRC-112	120/277 VAC	2-Relay On/Off 0-10V Dimming Room Controller
RC 3	LMRC-211	120/277 VAC	1-Relay On/Off 0-10V Dimming Room Controller
PR	BZ-150	120/277 VAC	Universal Voltage Power Pack
ER1	EJLCU-200	120/277 VAC	Emergency Shunt Relay
CS	LMUC-100-2	24VDC, 20mA	Ultrasonic Ceiling Sensor
CS	LMDC-100	24VDC, 20mA	Dual Technology Ceiling Sensor
CS	LMPC-100-1	24VDC, 7mA	PIR Ceiling Sensor, high Density Lens
CS	LMPC-100-5	24VDC, 7mA	PIR Ceiling Sensor, Extended Height Lens
CS	LMDC-100	24VDC, 20mA	Dual Technology Ceiling Sensor
CS	CB-100	24VDC, 20mA	Low Temperature PIR On/Off
CS	PW-100	120/277 VAC, 5mA	1-Button PIR On/Off Switch On/Off Sensor
CS	DW-311	120/277 VAC, 5mA	2-Button Dual Tech 0-10V Dim With Switching On/Off Sensor
CS	MSW-101	24VDC, 5mA	1-button Digital Wall Switch
CS	MSW-102	24VDC, 5mA	2-button Digital Wall Switch
CS	MDM-101	24VDC, 5mA	1-button Dimming Wall Switch
CS	LMBC-300	24VDC, 30mA	Network Bridge
CS	LMZC-301	120/277 VAC	Zone Controller With Enclosure

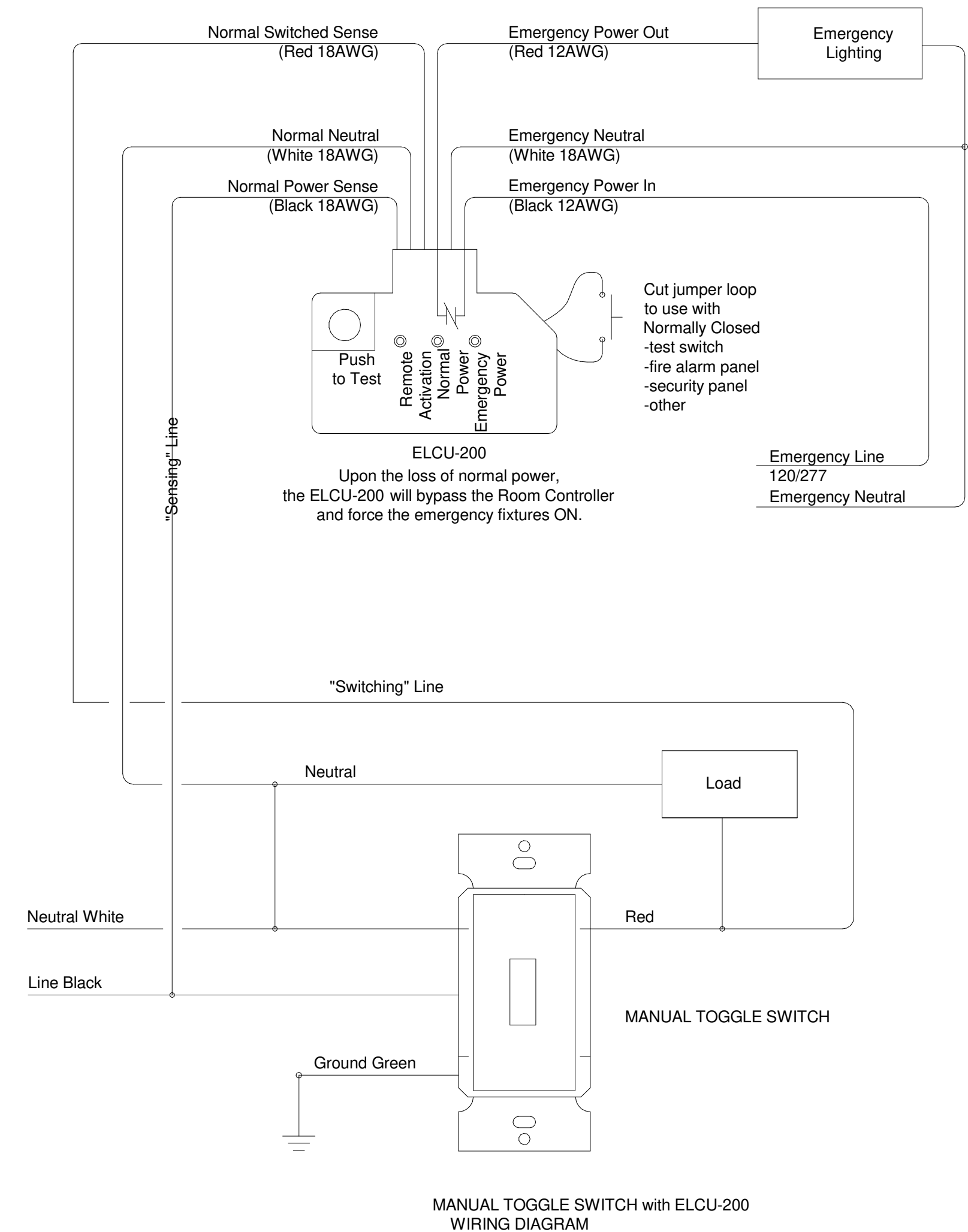
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PLEASE CONTACT SLS CONTROLS WITH ANY
QUESTIONS OR REVISIONS:

RON LEWERT - ron@slsltg.com
 214.215.3001

DICKSON FERNANDES - dickson@slsltg.com
Cell Phone: 732-740-2294

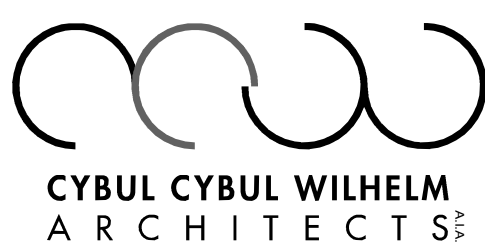
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GENERAL CONDITIONS NOTE:

[illegible]

right - ID. ENGINEERING



1064 River Rd.
Edgewater, NJ 07020

KOESTNER ASSOCIATES
P.O.BOX 514
Hackensack, NJ 07602

ALLIED ENGINEERING
730 River Road
New Milford, NJ 07646

BD ENGINEERING, LLC
30 Park Road, Suite 4
Tinton Falls, NJ 07724



Lorenzo Foods Teterboro

25 CENTRAL AVE
TETERBORO, NJ. 07608

B STAMP:

ISSUED FOR

REVIEW ☐

PLANNING BOARD ☐

BUILDING DEPT ☒

BID ☐

CONSTRUCTION ☐

BRIAN D. TANNENHAUS

NJ PROFESSIONAL ENGINEER
NO. GE 45801
DATE: 09/24/2021

ELECTRICAL LIGHTING CONTROL DETAILS

$$12'' = 1'-0''$$

10/15/2011

Drawing date: 00/24/2021

Exam by: AW

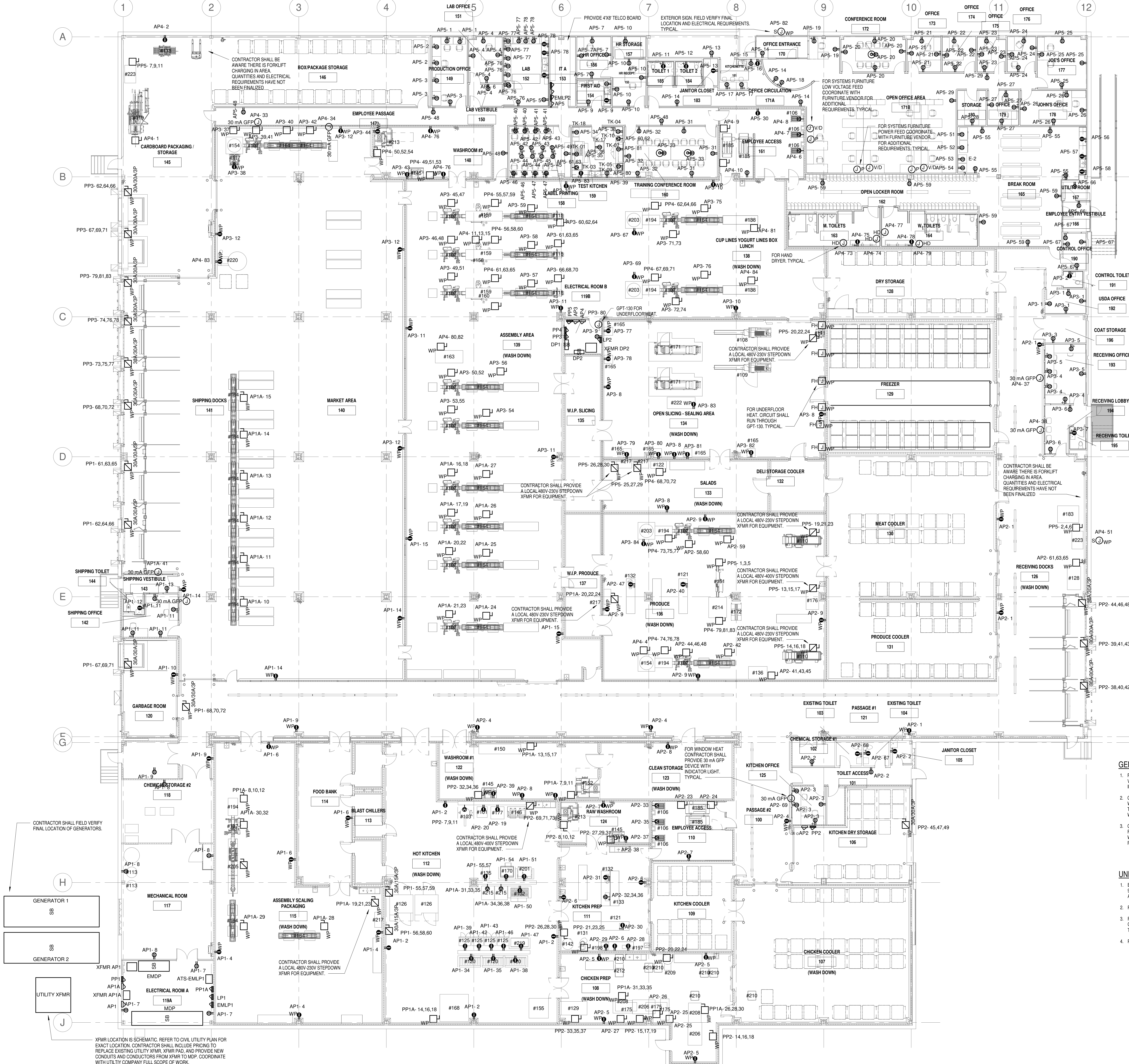
Approved by: BT

project no.: 2102

E-302.00

CB BARCODE:

Total



ELECTRICAL POWER PLAN
3/32" = 1'-0"

GENERAL NOTES:

- FOR ALL KITCHEN EQUIPMENT CONTRACTOR SHALL FIELD VERIFY FINAL ELECTRICAL REQUIREMENTS PRIOR TO ROUGH IN.
- CONTRACTOR SHALL BE AWARE NOT ALL KITCHEN EQUIPMENT WILL BE INSTALLED IN PHASE 1. CONTRACTOR SHALL REFER TO ARCHITECT'S DRAWINGS FOR PHASING AND SCOPE OF WORK REQUIREMENTS FOR ALL EQUIPMENT.
- CONTRACTOR SHALL BE AWARE THERE ARE CONTROL WIRING REQUIREMENTS FOR THE KITCHEN EQUIPMENT. COORDINATE WITH KITCHEN EQUIPMENT MANUFACTURERS FOR ALL REQUIRED CONTROL WIRING.

UNDERFLOOR HEAT GENERAL NOTES:

- BASIS OF DESIGN IN THERMO. CONTACT PATRICK RIOTTO AT 973-772-8224 OR PMR@TQBLAWRENCELOWY.COM FOR ADDITIONAL INFORMATION.
- PROVIDE THERMO FLX-8-0-J HEAT TRACE CABLE.
- PROVIDE SEPARATE 3/4" CONDUIT FROM SENSOR TO GPT CONTROLLER. CONDUIT SHALL BE LOCATED BETWEEN HEAT TRACE RUNS IN MIDDLE OF FREEZER.
- PROVIDE GPT-130 CONTROLLER

GENERAL CONDITIONS NOTE:
THIS DRAWING AND THE DESIGN DECISIONS HEREIN SHALL BE THE PROPERTY OF CYBUL CYBUL WILHELM ARCHITECTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPROPRIATE AGENCIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPROPRIATE AGENCIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPROPRIATE AGENCIES.

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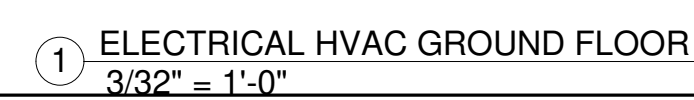
lorenzofood group

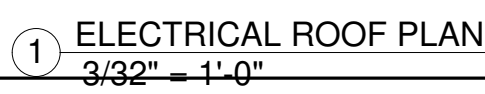
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ISSUED FOR: _____
REVIEW: _____
PLANNING BOARD: _____
BUILDING DEPT: _____
CONSTRUCTION: _____

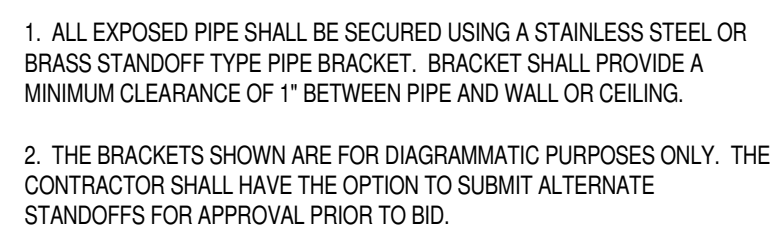
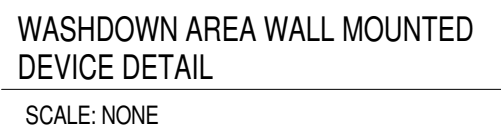
BRIAN D. TANNENHAUS
NJ PROFESSIONAL ENGINEER
NO. 0E 45801
DATE: 09/24/2021

drawing name: **ELECTRICAL FLOOR PLAN**
scale: As indicated
release date: _____
drawing date: 09/24/2021
drawn by: AW
approved by: BT
project no: 2102
drawing no: **E-400.00**
DCB BARCODE: _____
Total

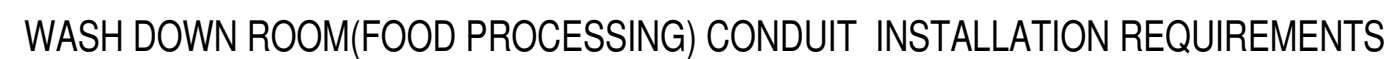
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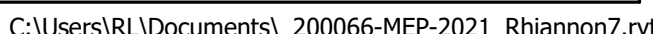
drawing name:	
ELECTRICAL ROOF PLAN	
scale:	3/32" = 1'-0"
release date:	
drawing date:	09/24/2021
drawn by:	AW
approved by:	BT
project no.:	2102
drawing no.:	
E-501.00	
DCB (ARCODE)	
Total	



WASHDOWN(FOOD PROCESSING) CONDUIT STAND-OFF DETAIL
SCALE: NONE



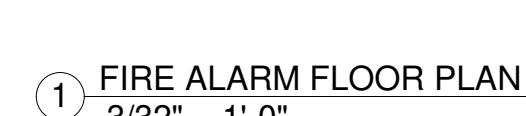
1. THE CONTRACTOR SHALL USE SCHEDULE 40 STEEL STUD PIPE OR PIGCOSTADO RIGID STEEL CONDUIT IN ALL OF THE FOOD PROCESSING AND OPEN FOOD STORAGE AREAS, WHERE ALTERNATED BY THE AHS SCHEDULE 80 PVC EQUIPMENT AND HOSE STATIONS IN THE BID AS AN ALLOWED PRICE. PVC DOES NOT ALLOW THIS OPTION.
2. THE CONTRACTOR SHALL PROVIDE "1" STAND OFFS FOR ALL SURFACE MOUNTED PIPING LOCATED IN THE FOOD PROCESSING AND OPEN FOOD STORAGE AREAS. REFER TO THE STAND OFF DETAIL FOR ADDITIONAL INFORMATION.
3. IT SHOULD ALSO BE NOTED THAT ALL ELECTRICAL DEVICES PROVIDED IN THE PRODUCTION AND STORAGE AREAS WERE WASHDOWN OF EQUIPMENT AND ROOMS. BUT DRAINS AT DOOR ENTRANCES MAY INDICATE THAT THE ROOMS ON BOTH SIDES OF THE DOOR ARE WASH DOWN ROOMS. IF UNSURE PROVIDE SEPARATE PRICING IN YOUR BID INDICATING YOUR ASSUMPTIONS FOR THE WASH DOWN ROOMS. PROVIDE SEPARATE PRICING FOR THE WASH DOWN EQUIPMENT REQUIREMENTS AS OUTLINED ABOVE.
4. UNLESS OTHERWISE NOTED ON OUR PLANS OR THE ARCHITECTS, FOR BIDDING PURPOSES ANY AREA WITH FOOD PREPARATION/PROCESS/ EQUIPMENT AND/OR HOSE STATIONS AND/OR A FLOOR DRAIN IN THE ROOM OF AT THE DOOR ENTRANCE SHALL BE CONSIDERED A FOOD PROCESSING AREA. UNLESS NOTED, BUT DRAINS AT DOOR ENTRANCES MAY INDICATE THAT THE ROOMS ON BOTH SIDES OF THE DOOR ARE WASH DOWN ROOMS. IF UNSURE PROVIDE SEPARATE PRICING IN YOUR BID INDICATING YOUR ASSUMPTIONS FOR THE WASH DOWN ROOMS. PROVIDE SEPARATE PRICING FOR THE WASH DOWN EQUIPMENT REQUIREMENTS AS OUTLINED ABOVE.







Total



FA-100.00	
DOB BARCODE:	
Total	



drawing name	
FIRE ALARM ROOF PLAN	
scale:	3/32" = 1'-0"
release date:	
drawing date:	09/24/2021
drawn by:	AV
approved by:	B
project no.:	2101
drawing no.:	
FA-101.00	
DDB BARCODE:	
Total	

1. THESE GENERAL NOTES, SYMBOL LIST AND DETAILS ARE APPLICABLE TO ALL HVAC MECHANICAL DRAWINGS.
2. DRAWINGS ARE DIAGRAMMATIC. DETERMINE LOCATIONS OF SYSTEMS AND COMPONENTS IN FIELD. RELOCATE EXISTING WORK THAT INTERFERES WITH WORK OF THIS CONTRACT.
3. WORK IN THIS SECTION IS SPECIFIED ON THE SPECIFICATION SHEET.
4. COORDINATE THIS WORK WITH THAT OF OTHER TRADES.
5. DIMENSIONS SHOWN ON PLAN ARE HORIZONTAL. DIMENSIONS SHOWN IN ELEVATION ARE VERTICAL, EXCEPT IN WAY OF STRUCTURAL STEEL. DIMENSIONS ARE MEASURED PERPENDICULAR TO FLANGE.
6. NEITHER ACCURACY NOR COMPLETION OF SERVICES AND UTILITY LOCATIONS SHOWN ON DRAWINGS IS GUARANTEED. DETERMINE EXACT LOCATIONS OF EXISTING SERVICES AND UTILITIES IN FIELD, WHETHER OR NOT SHOWN ON DRAWINGS. EXERCISE CAUTION AND IDENTIFY LOCATIONS OF UNMARKED UTILITY LINES AS NECESSARY TO PERFORM WORK OF THIS SECTION.
7. MANUFACTURERS MODEL NUMBERS ARE SPECIFIED SOLELY TO ESTABLISH STANDARDS OF QUALITY FOR PERFORMANCE AND MATERIALS.
8. PRODUCT INSTALLATION SHALL ADHERE TO MANUFACTURERS RECOMMENDATIONS.
9. PROVIDE HANGERS, INSERTS, ANCHORS, SUPPLEMENTAL STEEL & SUPPORTS AS REQUIRED TO SUPPORT DUCTWORK, PIPING AND EQUIPMENT FROM STRUCTURE.
10. SCHEDULE WORK OF THIS SECTION TO AVOID INTERFERING WITH EXISTING OPERATIONS IN THE FACILITY.
11. COORDINATE ROOF PENETRATIONS WITH WORK OF OTHER SECTIONS AND WITH FLASHING REQUIREMENTS. MECHANICAL CONTRACTOR TO NOTIFY OWNER PRIOR TO STARTING WORK TO VERIFY COMPLIANCE WITH BOND AND WARRANTY OF EXISTING ROOF.
12. RUN DUCTS AND PIPING CONCEALED AND CLEAR OF CEILING INSERTS, UNLESS OTHERWISE SPECIFIED.
13. INSTALL THERMOSTATS 4'-6" ABOVE FINISHED FLOOR OR AS DIRECTED OTHERWISE BY ARCHITECT.
14. STRUCTURAL WELDING SHALL BE CONTINUOUS 1/4" FILLET UNLESS REQUIRED OTHERWISE.
15. ALL NEW PIPING SHALL BE CONCEALED IN CEILING, WALL CAVITIES AND/OR UNDER SLAB, UNLESS OTHERWISE NOTED. EXISTING PIPING TO REMAIN BUT EXPOSED AS A RESULT OF DEMOLITION OPERATIONS SHALL BE RE-ROUTED/MODIFIED FOR CONCEALMENT IN CEILING OR WALL CAVITIES, OR UNDER SLAB, AT NO ADDITIONAL COST TO THE OWNER.
16. CONNECT NEW WORK TO EXISTING WORK IN A NEAT AND ACCEPTABLE MANNER. RESTORE EXISTING DISTURBED WORK TO ITS ORIGINAL CONDITION, INCLUDING MAINTENANCE OF WIRING CONTINUITY AS REQUIRED.
17. CONNECT NEW WORK TO EXISTING WORK WITH MINIMUM INTERFERENCE TO EXISTING FACILITIES. TEMPORARY SHUTDOWNS ARE PERMISSIBLE ONLY WITH WRITTEN CONSENT OF THE OWNER. ALARM AND EMERGENCY SYSTEMS ARE NOT TO BE INTERRUPTED.

18. FIRESTOPPING SHALL BE INSTALLED WHENEVER PIPING CROSSES FIRE RATED PARTITIONS. FIRE DAMPERS SHALL BE INSTALLED WHENEVER DUCTWORK CROSSES A FIRE RATED PARTITION. REFER TO THE ARCHITECTURAL PLANS FOR FIRE RATED PARTITION LOCATIONS. THE FIRESTOPPING SHALL MATCH OR EXCEED THE FIRE RATING OF THE PARTITION PENETRATED. ALL FIRESTOPPING SHALL BE A UL LISTED ASSEMBLY.
19. THE CONTRACTOR SHALL BRING ANY CONFLICTS IN THE DRAWINGS TO THE ATTENTION OF THE ENGINEER DURING THE BIDDING PROCESS. IF NOT BROUGHT UP TO THE ENGINEER DURING THE BIDDING PROCESS THE MORE EXPENSIVE OPTION SHALL BE CHOSEN FOR BIDDING PURPOSES.
20. HVAC CONTRACTOR IS RESPONSIBLE TO PROVIDE ACCESS PANELS FOR ANY CONCEALED HVAC WORK THAT MUST BE ACCESSIBLE EITHER BY CODE OR AS INDICATED IN THE DOCUMENTS. ALL ACCESS DOOR LOCATIONS SHALL BE REVIEWED AND APPROVED BY ARCHITECT PRIOR TO INSTALLATION OF DEVICE REQUIRING THE ACCESS PANEL. ALL ACCESS DOORS MUST MATCH THE FIRE RATING AND CONSTRUCTION TYPE OF THE CEILING OR WALL PENETRATION AS DESIGNATED ON THE ARCHITECTURAL DRAWINGS.

AIR SYSTEMS

21. REFER TO THE ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT LOCATIONS OF AIR DEVICES.
22. INTERNAL AIRFLOW DIMENSIONS ARE SHOWN FOR DUCTS. INCREASE DUCT SIZE AS NECESSARY TO MAINTAIN FREE FLOW AREA INDICATED.
23. USE FLAT TRANSVERSE SEAM FOR DUCTWORK WHERE SPACE AVAILABLE DICTATES.
24. DIFFUSER SIZES SHOWN ARE NECK SIZES. REGISTERS AND GRILLE SIZES ARE NOMINAL.
25. PROVIDE VOLUME DAMPERS OR OTHER APPROVED BALANCING DEVICES AT DUCT BRANCHES AND RUN OUTS, AND AT REGISTER GRILLE AND DIFFUSER NECKS IN SUPPLY, RETURN AND EXHAUST DUCTWORK, WHETHER SHOWN OR NOT.
26. DUCTWORK DOWNSTREAM OF ALL AC UNITS SHALL BE ACOUSTICALLY LINED WITH 1" ACOUSTICAL LINING FOR A MINIMUM OF 15 FEET.
27. PROVIDE CLEARANCE IN FRONT OF ALL ELECTRIC CONTROL PANELS PER N.E.C. AND MFG. REQUIREMENTS.

CONSUMABLES

28. THE CONTRACTOR SHALL REPLACE ALL CONSUMABLE EQUIPMENT ON THIS PROJECT AFTER FINAL TESTING AND RIGHT BEFORE THE EQUIPMENT IS TURNED OVER TO THE OWNER. THIS INCLUDES BUT IS NOT LIMITED TO ALL WATER AND AIR FILTERS ON THE PROJECT.

CODE COMPLIANCE

29. ALL WORK PERFORMED MUST MEET ALL APPLICABLE CODES AS REQUIRED BY THE AUTHORITY HAVING JURISDICTION.

GENERAL NOTES

NOT ALL SYMBOLS AND ABBREVIATIONS SHOWN ON THIS PLAN ARE USED IN THE PROCEEDING DRAWINGS.

HVAC ABBREVIATIONS

	EWT	ENTERING WATER TEMPERATURE			
	EXH	EXHAUST			
	°F	DEGREES FAHRENHEIT			
AAV	AUTOMATIC AIR VENT	FA	FREE AREA (SQ.FT.)	PSI	POUNDS PER SQUARE INCH
AC	AIR CONDITIONING	FAI	FRESH AIR INTAKE	PSIA	PSI ABSOLUTE
ACU	AIR CONDITIONING UNIT	FC	FLEXIBLE CONNECTION	PSIG	PSI GAUGE
AD	ACCESS DOOR	FD	FIRE DAMPER	RA	RETURN AIR
AFF	ABOVE FINISHED FLOOR	FN FL	FINISHED FLOOR	RE	EXISTING TO BE REMOVED
AHU	AIR HANDLING UNIT	FLA	FULL LOAD AMPERES	REX	EXISTING TO BE RELOCATED
BG	BOTTOM GRILLE	FPM	FEET PER MINUTE	RE	REMOVE EXISTING
BFC	BELOW FINISHED CEILING	GAL	GALLON	RF	RETURN FAN
BHP	BRAKE HORSEPOWER	GPH	GALLONS PER HOUR	RG	RETURN GRILLE
BR	BOTTOM REGISTER	GPM	GALLONS PER MINUTE	RH	RELATIVE HUMIDITY
BT	BOTTOM THROAT	HT	HEIGHT	RHC	REHEAT COIL
BTU	BRITISH THERMAL UNIT	HR	HOUR	RLA	RUNNING LOAD AMPS
BTUH	BTU PER HOUR	HV	HEATING AND VENTILATING	RPM	REVOLUTIONS PER MINUTE
CD	CEILING DIFFUSER	HX	HEAT EXCHANGER	(PRO)	EXISTING TO BE REMOVED AND RETURN TO OWNER
CFM	CUBIC FEET PER MINUTE	HZ	FREQUENCY	SA	SUPPLY AIR
CG	CEILING GRILLE	IN	INCH OR INCHES	SD	SMOKE DAMPER
CLG	CEILING	LAT	LEAVING AIR TEMPERATURE	SF	SUPPLY FAN
COND	CONDENSATE	LD	LINEAR DIFFUSER	SP	STATIC PRESSURE
CR	CEILING REGISTER	LF	LINEAR FEET	SPEC	SPECIFICATION
CUH	CABINET UNIT HEATER	LWB	LEAVING WET BULB TEMPERATURE	TDH	TOTAL DYNAMIC HEAD
CV	CONSTANT VOLUME	LWT	LEAVING WATER TEMPERATURE	TEMP	TEMPERATURE
DB	DRY BULB	MBH	THOUSAND BTU PER HOUR	TG	TOP GRILLE
DIAM	DIAMETER	MER	MECHANICAL EQUIPMENT ROOM	TYP	TYPICAL
DMPR	DAMPER	MIN	MINIMUM	TR	TOP REGISTER
DX	DIRECT EXPANSION	NC, N.C.	NORMALLY CLOSED	UH	UNIT HEATER
EG	EXHAUST GRILLE	NIC	NOT IN CONTRACT	VFD	VARIABLE FREQUENCY DRIVE
EX	EXISTING TO REMAIN	NO, N.O.	NORMALLY OPEN	VAV	VARIABLE AIR VOLUME UNIT
EAT	ENTERING AIR TEMPERATURE	NTS, N.T.S.	NOT TO SCALE	VIV	VARIABLE INLET VANES
EDS	ENTERING DRY BULB TEMPERATURE	NO.	NUMBER	W	WIDTH
EF	EXHAUST FAN	OA	OUTSIDE AIR	w	WITH
EL	ELEVATION	OAI	OUTSIDE AIR INTAKE	WB	WET BULB
EWB	ENTERING WET BULB	OED	OPEN END DUCT	WMS	WIRE MESH SCREEN

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	SINGLE LINE DUCTWORK OR EQUIPMENT - NEW		SUPPLY DIFFUSER
	SINGLE LINE DUCTWORK OR EQUIPMENT - EXISTING		RETURN -OR- EXHAUST GRILLE
	DUCTWORK TO BE REMOVED		SUPPLY DIFFUSER WITH BLANKING PLATE
	DUCTWORK WITH ACOUSTIC LINING		LINEAR DIFFUSER -OR- LINEAR RETURN
	DUCT UNDER POSITIVE PRESSURE (SUPPLY AIR OR FAN DISCHARGE)		SIDE WALL -OR- DUCT MOUNTED DIFFUSER
	DUCT UNDER NEGATIVE PRESSURE (RETURN, EXHAUST OR OUTSIDE AIR)		VANED ELBOW (SEE DETAIL) OR RADIUS ELBOW
	VOLUME DAMPER - THE "VD" MAY NOT BE SHOWN ON THE PLANS.		FLEXIBLE DUCT
	FIRE DAMPER AND ACCESS DOOR		FLEXIBLE DUCT CONNECTION
	BACK DRAFT DAMPER		VERTICAL DUCT DROP (IN DIRECTION OF AIRFLOW)
	MOTORIZED DAMPER		VERTICAL DUCT RISE (IN DIRECTION OF AIRFLOW)
	RISE IN DUCTWORK (IN DIRECTION OF AIR FLOW)		SLOTTED LINEAR DIFFUSER WITH PLENUM
	DROP IN DUCTWORK (IN DIRECTION OF AIR FLOW)		PROPELLER FAN
	CUBIC FEET PER MINUTE		PT PLUG
	DIAMETER		RAD INFO
	SQUARE FEET		REDUCER
	POINT OF CONNECTION		RELIEF VALVE
	POINT OF DISCONNECTION		RISE
	DUCT SMOKE DETECTOR		SHUT OFF VALVE
	2-WAY SHUT OFF VALVE		STEAM TRAP
	3-WAY SHUT OFF VALVE		STRAINER
	AIR SEPARATOR		THERMAL WELL
	AIR FLOW ARROW		THERMOMETER
	AIR FLOW		THROTTLE VALVE
	AIR VENT		UNDERCUT
	ANCHOR		THERMOSTAT
	ANGLE VALVE - SIDE		HUMIDISTAT
	ANGLE VALVE - TOP		VARIABLE AIR VOLUME BOX
	ARROW		UNIT HEATER
	BALANCE VALVE		ROOFTOP EXHAUST FAN
	BM PUMP		PIPING MANIFOLD PITCH POCKET
	CAP		PIPING PENETRATION PITCH POCKET
	CHECK VALVE		ANSUL PULL STATION
	CONTROL VALVE		EQUIPMENT IDENTIFICATION TAG
	CONVERTER		ASSOCIATED EQUIPMENT TAG (I.E.: THERMOSTAT ASSOCIATED WITH RTU-X)
	DOOR LOUVER L		DRAWING NOTE - "Y" DENOTES NOTE NUMBER SHOWN ON PLAN.
	DOOR LOUVER R		KEY NOTE - "Y" DENOTES NOTE NUMBER SHOWN FOR ALL HVAC PLANS.
	DRAIN VALVE		DEMOLITION NOTE - "X" DENOTES NOTE NUMBER SHOWN ON PLAN.
	DROP		PETCOCK
	REDUCER		PUMP
	EXPANSION JOINT		PRESSURE GAUGE
	EXPANSION TANK		PRESSURE RELIEF VALVE
	FLANGE		
	FLOW METER		
	GUIDE		
	UNION		
	HUMIDISTAT		
	LSH VALVE		
	P BREAK		
	PETCOCK		
	PUMP		
	PRESSURE GAUGE		
	PRESSURE RELIEF VALVE		

SYMBOL LEGEND

PROJECT NOTES:

THE CONTRACTOR SHALL RECEIVE AND REVIEW ALL OF THE PROJECTS DRAWINGS AND SPECIFICATIONS SUCH AS ARCHITECTURAL, STRUCTURAL, HVAC, ELECTRICAL, PLUMBING, FIRE ALARM, SPRINKLER, SITE, ETC. TO UNDERSTAND THE FULL SCOPE OF WORK. FAILURE TO RECEIVE AND REVIEW THOSE PLANS DURING BIDDING WILL RESULT IN THE DENIAL OF EXTRA'S.

CODE REVIEW

ALL CONTRACTOR WORK MUST COMPLY WITH THE GOVERNING CODES & REFERENCES:

1. NUBC 2018, NUBMC 2018, NUBCC 2018
2. NUBPC 2018, NUBGC 2018, NUBFC 2018

SUMMER OUTDOOR DESIGN CONDITIONS:

1. DESIGN REGION: TETERBORO, NJ
2. DRY BULB: 89°F
3. WET BULB: 74°F

SUMMER INDOOR DESIGN CONDITIONS:

1. DRY BULB: 75°F
2. RELATIVE HUMIDITY: 50% MAXIMUM

WINTER OUTDOOR DESIGN CONDITIONS:

1. DESIGN REGION: TETERBORO, NJ
2. DRY BULB: 14°F

WINTER INDOOR DESIGN CONDITIONS:

1. DRY BULB: 75°F
2. RELATIVE HUMIDITY: NO MINIMUM RH CONTROL PROVIDED

VENTILATION REQUIREMENTS:

1. PER THE APPLICABLE MECHANICAL CODE LISTED ABOVE.

FILTRATION:

1. 30% PLEATED PRE-FILTER MEDIA

SEISMIC DESIGN CRITERIA:

PROVIDE SEISMIC RESTRAINTS IN ACCORDANCE WITH THE APPLICABLE BUILDING CODE STATED ABOVE.

ALL ROOF MOUNTED EQUIPMENT SHALL BE ABLE TO WITHSTAND THE FOLLOWING WIND SPEEDS PER THE BUILDING CODE SECTION 1609. WIND SPEED: 100MPH TIMES ASCE STANDARD 07-16 FORCE FACTOR OF 1.9 = 190MPH

Sheet Number	Sheet Name
M-100	HVAC COVER SHEET
M-101	HVAC SPECIFICATIONS
M-200	HVAC GROUND FLOOR PLAN
M-201	HVAC OFFICES
M-202	HVAC ROOF PLAN
M-300	HVAC SCHEDULES
M-301	HVAC DETAILS
M-302	HVAC DETAILS AND SEQUENCE OF OPERATIONS
M-303	HVAC VENTILATION INDEX
M-400	HVAC WIRING DIAGRAMS
M-401	HVAC GROUND FLOOR CONTROLS
M-500	HVAC CAPTIVE AIRE DETAILS
M-501	HVAC CAPTIVE AIRE DETAILS
M-502	HVAC CAPTIVE AIRE DETAILS
M-503	HVAC CAPTIVE AIRE DETAILS
M-504	HVAC CAPTIVE AIRE DETAILS
M-505	HVAC CAPTIVE AIRE DETAILS
M-506	HVAC CAPTIVE AIRE DETAILS
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M-512	HVAC CAPTIVE AIRE DETAILS
M-513	HVAC CAPTIVE AIRE DETAILS
M-514	HVAC CAPTIVE AIRE DETAILS
M-515	HVAC CAPTIVE AIRE DETAILS
MD-100	HVAC DEMO PLAN

DRAWING LIST

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DOB STAMP:

ISSUED FOR:

REVIEW

PLANNING BOARD

BUILDING DEPT

NO

CONSTRUCTION

BRIAN D. TANNENHAUS

DOB: 04/11/1978

NJ PROFESSIONAL ENGINEER
NO. GE 45801
DATE: 09/24/2021

drawing name:

HVAC COVER SHEET

scale:

release date:

drawing date:

09/24/2021

drawn by:

ZW

approved by:

KF

project no.

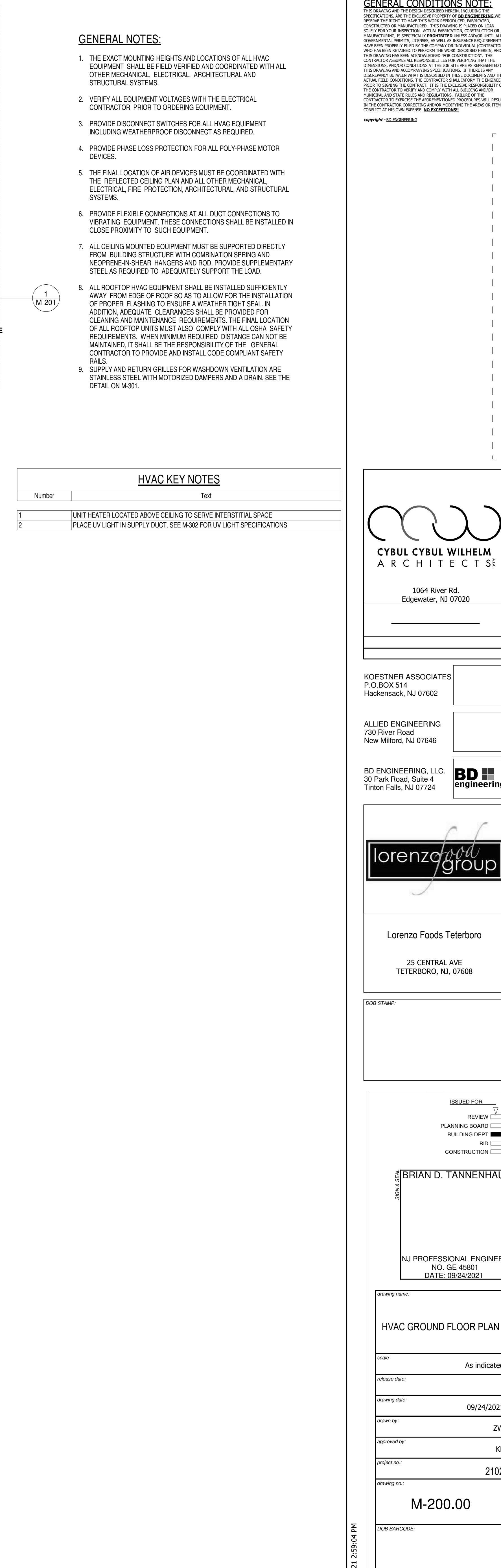
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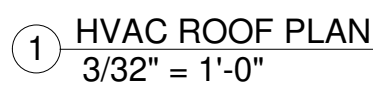
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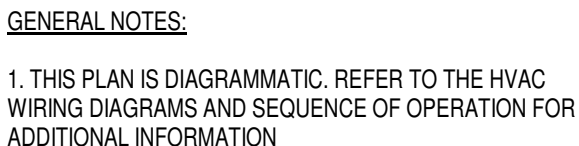
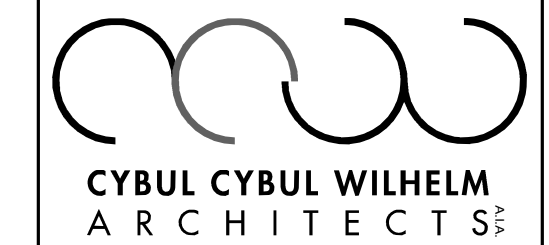
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Total





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ISSUED FOR

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PLANNING BOARD

BUILDING DEPT

BID

CONSTRUCTION

BRIAN D. TANNENHAUS

NJ PROFESSIONAL ENGINEER
NO. GE 45801
DATE: 09/24/2021

drawing name:

HVAC GROUND FLOOR CONTROLS

scale: As indicated

release date:

drawing date: 09/24/2021

drawn by: ZW

approved by: KF

project no.: 3102

M-401.00

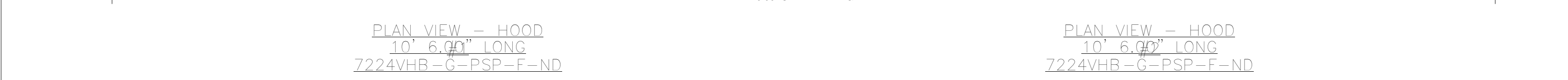
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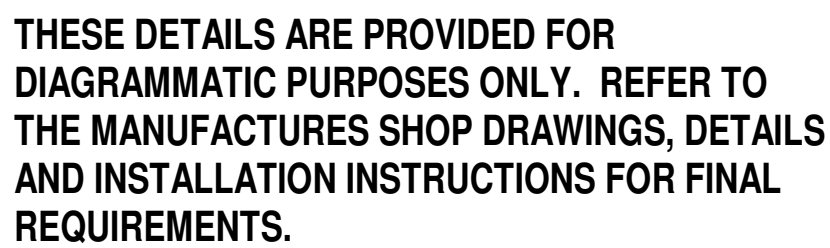
Total

ROOM INFORMATION TAG														
ROOM NO		FILTER(S)					LIGHT(S)			UTILITY CABINET(S)				
		TYPE	QTY	HEIGHT	LENGTH	EFFICIENCY @ 7 MICRONS	QTY	TYPE	WIRE GUARD	LOCATION	SIZE	FIRE SYSTEM		ELECTICAL MODEL #
												TYPE	SIZE	
1							5	RECESSED ROUND	NO					
2							5	RECESSED ROUND	NO					
3		CAPTRATE SOLO FILTER	5	16"	16"	85% SEE FILTER SPEC	3	RECESSED ROUND	NO	LEFT	12"x66"x24"	TANK FIRE SUPPRESSION	4.0/4.0/4.0	
4		CAPTRATE SOLO FILTER	6	16"	16"	85% SEE FILTER SPEC	3	RECESSED ROUND	NO					
5		CAPTRATE SOLO FILTER	6	16"	16"	85% SEE FILTER SPEC	3	RECESSED ROUND	NO					
6		CAPTRATE SOLO FILTER	5	16"	16"	85% SEE FILTER SPEC	3	RECESSED ROUND	NO	RIGHT	12"x72"x24"	TANK FIRE SUPPRESSION	4.0/4.0	DCV-2111
7		CAPTRATE SOLO FILTER	8	20"	16"	85% SEE FILTER SPEC	4	RECESSED ROUND	NO					
8		CAPTRATE SOLO FILTER	8	20"	16"	85% SEE FILTER SPEC	3	RECESSED ROUND	NO	RIGHT	12"x72"x24"	TANK FIRE SUPPRESSION	4.0/4.0/4.0	DCV-2111
9		CAPTRATE SOLO FILTER	8	20"	16"	85% SEE FILTER SPEC	4	RECESSED ROUND	NO	LEFT	12"x60"x24"	TANK FIRE SUPPRESSION	4.0/4.0/4.0	
10		CAPTRATE SOLO FILTER	8	20"	16"	85% SEE FILTER SPEC	4	RECESSED ROUND	NO					
11	Test Kitchen	CAPTRATE SOLO FILTER	5	16"	16"	85% SEE FILTER SPEC	2	RECESSED ROUND	NO	LEFT	12"x54"x24"	TANK FS	4.0	SC-2011/09F

SWITCHES	FIRE	HOOD
QUANTITY	SYSTEM	HANGING
	PIPING	WEIGHT
	NO	553 LBS
	NO	553 LBS
	YES	1064 LBS
	YES	520 LBS
	YES	580 LBS
1 LIGHT 1 FAN	YES	934 LBS
	YES	696 LBS
1 LIGHT 1 FAN	YES	1136 LBS
	YES	1064 LBS
	YES	707 LBS
1 LIGHT 1 FAN	YES	579 LBS

FIRE SYSTEM INFORMATION -				FLOW POINT NO	INSTALLATION	
FIRE SYSTEM TAG	TYPE	SIZE	TBD		SYSTEM	LOCATION ON HOOD
1	TANK FS	4.0/4.0/4.0	TBD	FIRE CABINET LEFT	LEFT, HOOD 0	
2	TANK FS	4.0/4.0	TBD	FIRE CABINET RIGHT	RIGHT, HOOD	
3	TANK FS	4.0/4.0/4.0	TBD	FIRE CABINET RIGHT	RIGHT, HOOD	
4	TANK FS	4.0/4.0/4.0	TBD	FIRE CABINET LEFT	LEFT, HOOD 0	
5	TANK FS	4.0	TBD	FIRE CABINET LEFT	LEFT, HOOD 1	





BD ENGINEERING, LLC.
30 Park Road, Suite 4
Tinton Falls, NJ 07724

25 CENTRAL AV
ETERBORO, NJ, 0

ISSUED FOR _____

PLANNING BOARD ☐
BUILDING DEPT ☒
BID ☐
CONSTRUCTION ☐

BRIAN D. TANNENHAU

[illegible]

NO. GE 45801
DATE: 09/24/2021

drawing name:

HVAC CAPTIVE AIRE DETAILS

scale:

reviser code:

drawn by:

K


drawing no.:

W. C. H. S.

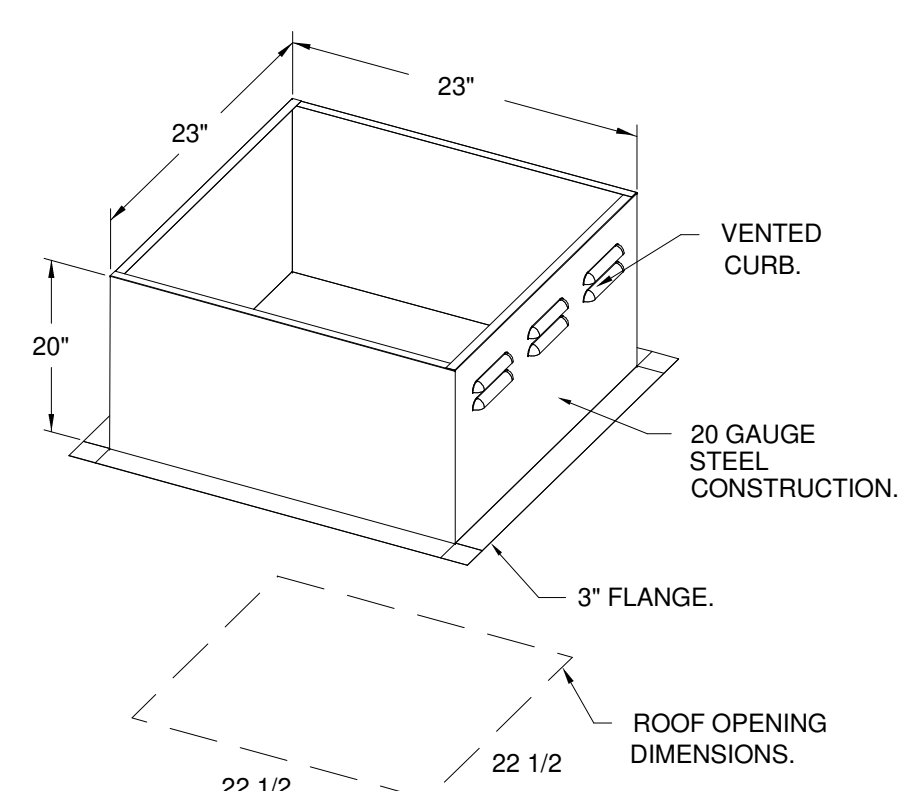
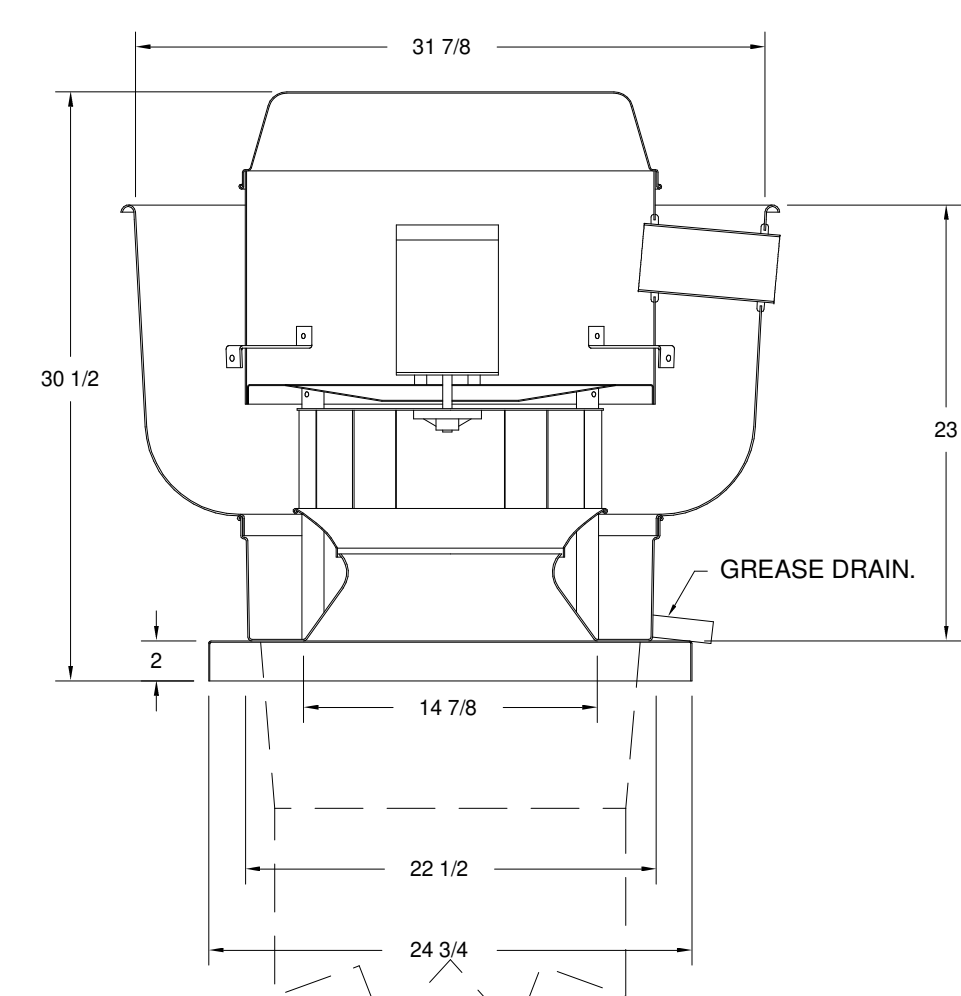
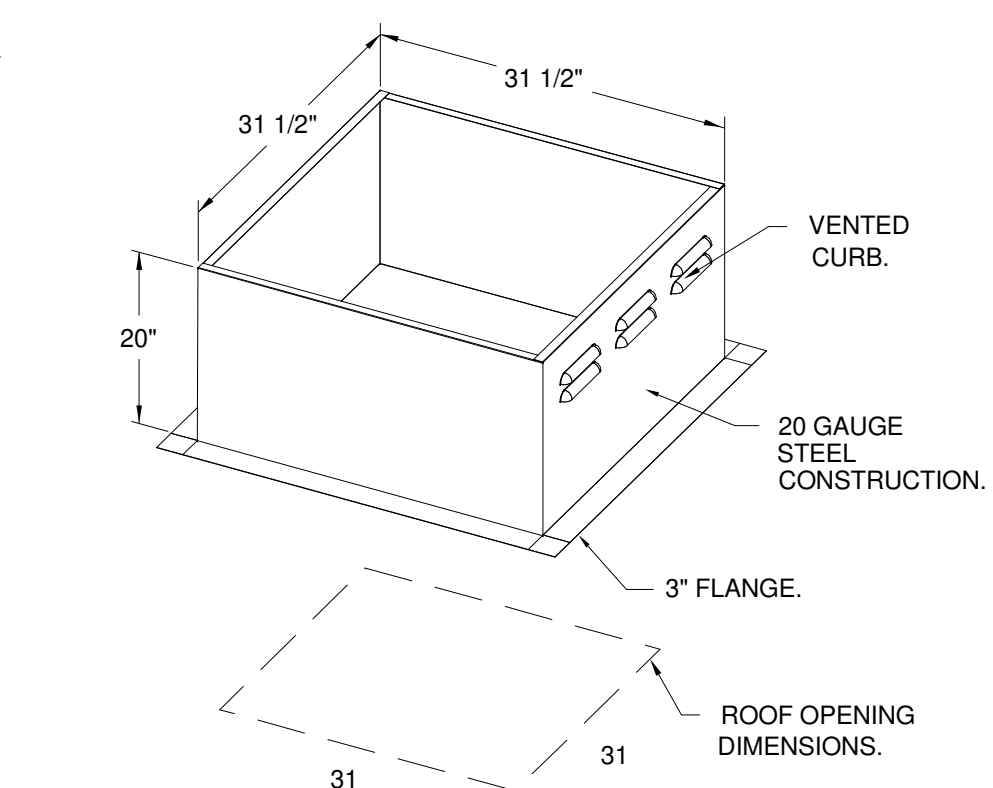
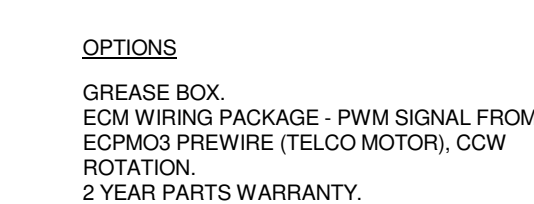
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 <p>CYBUL CYBUL WILHELM ARCHITECTS</p>							
<p>1064 River Rd. Edgewater, NJ 07020</p>							
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 60%; padding: 5px;"> KOESTNER ASSOCIATES P.O. BOX 514 Hackensack, NJ 07602 </td> <td style="width: 40%;"></td> </tr> <tr> <td style="padding: 5px;"> ALLIED ENGINEERING 730 River Road New Milford, NJ 07746 </td> <td></td> </tr> <tr> <td style="padding: 5px;"> BD ENGINEERING, LLC. 30 Park Road, Suite 4 Tinton Falls, NJ 07724 </td> <td style="padding: 5px; text-align: center;">  </td> </tr> </table>		KOESTNER ASSOCIATES P.O. BOX 514 Hackensack, NJ 07602		ALLIED ENGINEERING 730 River Road New Milford, NJ 07746		BD ENGINEERING, LLC. 30 Park Road, Suite 4 Tinton Falls, NJ 07724	
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BD ENGINEERING, LLC. 30 Park Road, Suite 4 Tinton Falls, NJ 07724							
							
<p>Lorenzo Foods Teterboro</p>							
<p>25 CENTRAL AVE TETERBORO, NJ, 07608</p>							
CDD STAMP:							

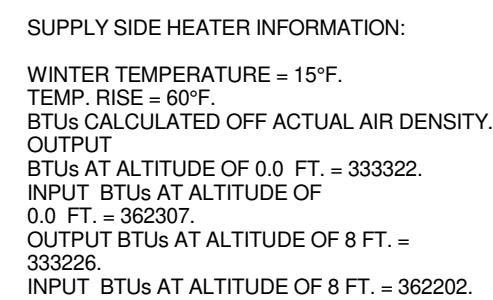
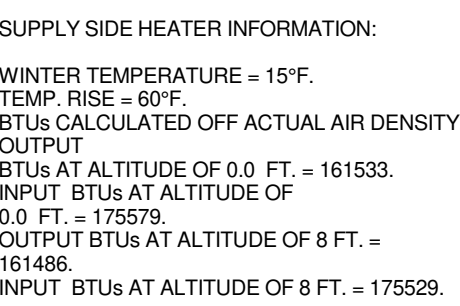
CURB ASSEMBLIES					
NO	FAN	TAG	WEIGHT	ITEM	SIZE
1	# 1	KEF-1	41 LBS	CURB	26.500"W X 26.500"L X 20.000"H ALONG LENGTH, RIGHT VENTED HINGED.
2	# 2	KEF-2	41 LBS	CURB	26.500"W X 26.500"L X 20.000"H ALONG LENGTH, RIGHT VENTED HINGED.
3	# 3	KEF-2	41 LBS	CURB	26.500"W X 26.500"L X 20.000"H ALONG LENGTH, RIGHT VENTED HINGED.
4	# 4	KEF-4	48 LBS	CURB	31.500"W X 31.500"L X 20.000"H ALONG LENGTH, RIGHT VENTED HINGED.
5	# 5	KEF-5	48 LBS	CURB	31.500"W X 31.500"L X 20.000"H ALONG LENGTH, RIGHT VENTED HINGED.
6	# 6	KMUA-1	80 LBS	CURB	31.000"W X 79.000"L X 20.000"H ALONG WIDTH, RIGHT INSULATED.
7	# 7	KMUA-2	84 LBS	CURB	35.000"W X 84.000"L X 20.000"H ALONG WIDTH, RIGHT INSULATED.
8	# 8		93 LBS	RAIL	6.000"W X 42.000"L X 20.000"H RIGHT.
9	# 8	KMUA-3	93 LBS	CURB	42.000"W X 42.000"L X 20.000"H ALONG LENGTH, RIGHT INSULATED.
9	# 9	KMUA-K	93 LBS	CURB	35.000"W X 84.000"L X 20.000"H ALONG WIDTH, RIGHT INSULATED.
10	# 10	KEF-TESTKITCHEN	36 LBS	CURB	23.000"W X 23.000"L X 20.000"H ALONG LENGTH, RIGHT VENTED HINGED.
11	# 11	DOAS-TESTKITCHEN	85 LBS	CURB	41.000"W X 71.000"L X 20.000"H ALONG WIDTH, RIGHT INSULATED.



<div style="display: flex; justify-content: space-between;"> <div> <p>8/24/2021</p> <p>4967555</p> <p>ZDK</p> <p>3/4" = 1" - 0"</p> <p>MASTER DRAWING</p> </div> <div> <p>5</p> </div> </div>	<div style="display: flex; justify-content: space-between;"> <div> <p>Lorenzo Foods</p> <p>TETERBORO, NJ, 07608</p> </div> <div>  </div> </div>	<div style="display: flex; justify-content: space-between;"> <div> <p>Summit, NJ PHONE: (201) 308-6647 FAX: (919) 516-6752 EMAIL: reg139@captivemechanical.com</p> </div> <div>   </div> </div>
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9/24/2021 2:35:54 PM	drawing name:	HVAC CAPTIVE AIRE DETAILS
	scale:	As indicated
	release date:	
	drawing date:	09/24/2021
	drawn by:	ZW
	approved by:	KF
	project no.	2102
	drawing no.:	M-504.00
	DCB BARCODE:	
		Total

*NOTE: SUPPLY DUCT MUST BE INSTALLED TO MEET SMACNA STANDARDS. A MINIMUM STRAIGHT DUCT LENGTH MUST BE MAINTAINED DOWNSTREAM OF AIR DISCHARGE AS OUTLINED IN AMCA PUBLICATION 201. WHEN USING RECTANGULAR DUCTWORK, ELBOWS MUST BE RADIUS THROAT. RADIUS BACK W/ TURNING VANES. FLEXIBLE DUCTWORK AND SQUARE THROAT/SQUARE BACK ELBOWS SHOULD NOT BE USED. ANY TRANSITION AND/OR TURNS IN THE DUCTWORK WILL CAUSE SYSTEM EFFECT. SYSTEM EFFECT WILL DRASTICALLY INCREASE STATIC PRESSURE AND REDUCE AIRFLOW. DO NOT RELY ON IT TO SUPPORT DUCT IN ANY WAY. FAILURE TO PROPERLY SIZE DUCTWORK MAY CAUSE SYSTEM EFFECTS AND REDUCE PERFORMANCE OF THE EQUIPMENT. SUGGESTED STRAIGHT DUCT SIZE IS 20" x 20".



Summit, NJ, PHONE: (201) 308-6647 FAX: (919) 516-8752 EMAIL: reg138@captliveaire.com

8/24/2021

4967555

ZDK

$$\frac{3}{4}'' =$$

MASTER DRAWING

6

copyright - 10 ENGINEERING

1064 River Rd.
Edgewater, NJ 07020

ALLIED ENGINEERING
730 River Road
New Milford, NJ 07646

ALLIED ENGINEERING
730 River Road
New Milford, NJ 07646

BD ENGINEERING, LLC.
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BD
engineering

Lorenzo Foods Teterboro

25 CENTRAL AVE
TETERBORO, NJ. 07608

DOB STAMP:

BRIAN D. TANNENHAUS

NJ PROFESSIONAL ENGINEER
NO. GE 45801
DATE: 09/24/2021

drawing name:

HVAC CAPTIVE AIRE DETAILS S

release date:

09/24/2021

Approved by: _____

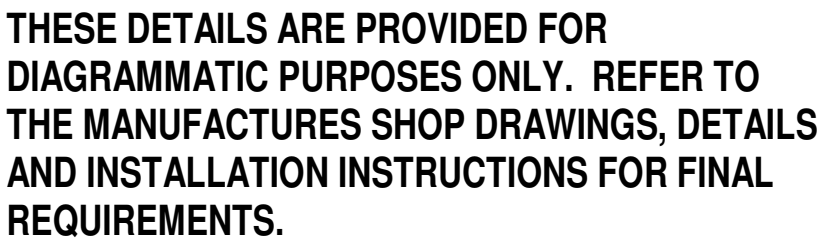
2102

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DOB BARCODE:

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	Total
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IMPORTANT SPECIAL
UDS PARTS/NOTES

☆ BOTH STEAM LINE INSULATION THICKNESS TBD.

☆ STEAM SUPPLY SERVICE FROM ABOVE, SEE SCHEDULE FOR SERVICE SIZE (PROVIDED BY PLUMBING CONTRACTOR)

☆ COND. RETURN SERVICE FROM ABOVE, SEE SCHEDULE FOR SERVICE SIZE (PROVIDED BY PLUMBING CONTRACTOR)

UDS CONSTRUCTION TO BE
16 GA., TYPE 304 STAINLESS STEEL

UTILITY DISTRIBUTION SYSTEM MODEL UDI
IS LISTED UNDER ETL FILE NUMBER 3054803
CONFORMS TO UL STD 891
CERTIFIED TO CAN/CSA C22.2 No. 31-M89

PRIOR TO SCHEDULING UDS FOR PRODUCTION
PLEASE PROVIDE APPROVED SUBMITTAL CUTSHEETS
ON FINAL KITCHEN EQUIPMENT ASSOCIATED WITH
THE UDS (NEW & USED) SO THAT CONNECTION
SIZES, TYPES AND LOCATIONS CAN BE VERIFIED

ANY CHANGES TO SUBMITTAL DRAWING
MAY AFFECT PRICE AND PRODUCTION TIME
PLEASE FORWARD CHANGES ASAP


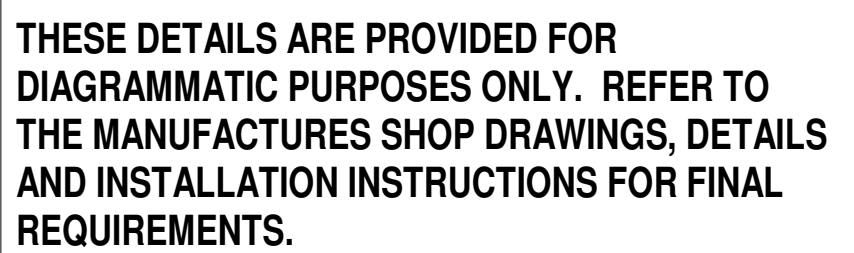
-----NOTE-----
NEC REQUIRES 36"
OF FIELD CLEARANCE
IN FRONT OF CIRCUIT
BREAKERS FOR ACCESS

SYMBOL SCHEDULE

○ GAS WATER
● RETURN WATER
● NATURAL GAS
① 120 VAC 1 PHASE
② 208 VAC 3 PHASE
③ 480 VAC 3 PHASE
☉ STEAM SUPPLY
☉ STEAM CONDENSATE RETURN

- STANDARD FLAG NOTES
- ELECTRICAL SERVICE FROM ABOVE, SEE SCHEDULE FOR DETAILS, PROVIDED BY ELECTRICAL CONTRACTOR
 - SEW/COMB/SEA RESTRICTED ELECTRICAL CIRCUIT INTO UDS TERMINALS "NE, NY" FOR FUEL/SHUNT CONTROL, PROVIDED BY ELECTRICAL CONTRACTOR SEE SCHEMATIC BELOW
 - 3-PHASE ELECTRICAL CIRCUIT FROM KITCHEN CENTER, PACKAGE TERMINALS "NE, NY" TO UDS LINE TERMINALS "GAS, ET & KTS" FOR UDS SHUT DOWN IN A FIRE CONDITION PROVIDED BY ELECTRICAL CONTRACTOR SEE SCHEMATIC BELOW
 - GAS SERVICE FROM ABOVE, SEE SCHEDULE FOR SERVICE SIZE AND STYLE PROVIDED BY PLUMBING CONTRACTOR
 - COLD WATER SERVICE FROM ABOVE, SEE SCHEDULE FOR SERVICE SIZE PROVIDED BY PLUMBING CONTRACTOR
 - HOT WATER SERVICE FROM ABOVE, SEE SCHEDULE FOR SERVICE SIZE PROVIDED BY PLUMBING CONTRACTOR
 - SERVICE MAIN BREAKER W/SHUNT TRIP AND RESET HANDLE, SEE SCHEDULE FOR DETAILS
 - STATUS INDICATOR LIGHTS
 - EMERGENCY KILL SWITCH
 - BOI RECEPTACLE W/ BREAKER & WEATHERPROOF COVER
 - ELECTRICAL LOAD CENTER WITH INDIVIDUAL CIRCUIT BREAKERS
 - ELECTRICAL WIRING TO APPLIANCES
 - ELECTRICAL CONNECTION V/WEATHERPROOF COVER AS SPECIFIED IN THE EQUIPMENT SCHEDULE, SEE THIS SHEET
 - PLUMBING CONNECTION AS SPECIFIED IN THE EQUIPMENT SCHEDULE, SEE THIS SHEET
 - MANUAL SHUT OFF VALVE
 - SEW/ ELECTRICAL ONE VALVE
 - REMOVABLE ACCESS DOORS

UTILITY DISTRIBUTION SYSTEM EQUIPMENT SCHEDULE																					
CONN#	ITEM	DESCRIPTION	MANUFACTURER	MODEL #	KW	AMPS	HP	VOLT	PH	ELECTRICAL	CIRCUIT BREAKER	RECEPTACLE	GAS	WATER	STEAM	CONNECTION	LENGTH	NOTES			
15	103	BOI GAL KETTLE	GROEN	DL-80	-	-	-	-	-	-	-	-	-	-	3/4"	-	QUICK DISCONNECT	5'			
18	103	BOI GAL KETTLE	GROEN	DL-80	-	-	-	-	-	-	-	-	-	-	3/4"	-	QUICK DISCONNECT	5'			
1C	103	BOI GAL KETTLE	GROEN	DL-80	-	-	-	-	-	-	-	-	-	-	-	-	QUICK DISCONNECT	5'			
1H	103	BOI GAL KETTLE	GROEN	DL-80	-	-	-	-	-	-	-	-	-	-	-	-	QUICK DISCONNECT	5'			
2E	177	40 GAL KETTLE	GROEN	DL-80	-	-	-	-	-	-	-	-	-	-	-	-	QUICK DISCONNECT	5'			
2G	177	40 GAL KETTLE	CLEVELAND	KGL-40-T	1.2	10.0	-	120	1	20	1	DR20	-	-	-	-	SUPPLIED	-	GFI BREAKER		
2C	177	40 GAL KETTLE	CLEVELAND	KGL-40-T	-	-	-	-	-	-	-	-	3/4"	140	-	-	QUICK DISCONNECT	5'			
2H	177	40 GAL KETTLE	CLEVELAND	KGL-40-T	-	-	-	-	-	-	-	-	-	1/2"	-	-	QUICK DISCONNECT	5'			
3E	177	40 GAL KETTLE	CLEVELAND	KGL-40-T	1.2	10.0	-	120	1	20	1	DR20	-	-	-	-	SUPPLIED	-	GFI BREAKER		
3G	177	40 GAL KETTLE	CLEVELAND	KGL-40-T	-	-	-	-	-	-	-	-	3/4"	140	-	-	QUICK DISCONNECT	5'			
3C	177	40 GAL KETTLE	CLEVELAND	KGL-40-T	-	-	-	-	-	-	-	-	-	1/2"	-	-	QUICK DISCONNECT	5'			
3H	177	40 GAL KETTLE	CLEVELAND	KGL-40-T	-	-	-	-	-	-	-	-	-	1/2"	-	-	QUICK DISCONNECT	5'			
4E	146	PASTA COOKER	NELMA	DOUGH-O-MAT C40/2	1.5	4.2	-	208	3	15	3	L15-20R	-	-	-	-	CORD & PLUG	6'	GFI BREAKER		
4S	146	PASTA COOKER	NELMA	DOUGH-O-MAT C40/2	-	-	-	-	-	-	-	-	-	3/4"	-	-	QUICK DISCONNECT	5'			
41L	146	PASTA COOKER	NELMA	DOUGH-O-MAT C40/2	-	-	-	-	-	-	-	-	-	3/4"	-	-	QUICK DISCONNECT	5'			
4R	146	PASTA COOKER	NELMA	DOUGH-O-MAT C40/2	-	-	-	-	-	-	-	-	-	3/4"	-	-	QUICK DISCONNECT	5'			
4R1	146	PASTA COOKER	NELMA	DOUGH-O-MAT C40/2	-	-	-	-	-	-	-	-	-	1/2"	-	-	QUICK DISCONNECT	5'			
4H	146	PASTA COOKER	NELMA	DOUGH-O-MAT C40/2	-	-	-	-	-	-	-	-	-	3/4"	-	-	QUICK DISCONNECT	5'			
D1	-	DUPLEX OUTLET	-	-	-	-	-	120	3	20	1	DR20	-	-	-	-	FACTORY	-	GFI BREAKER		
D2	-	DUPLEX OUTLET	-	-	-	-	-	120	3	20	1	DR20	-	-	-	-	FACTORY	-	GFI BREAKER		
TOTAL CONNECTED LOAD:					3.9	KW	10.9	AMP	0.0	KW	0.0	AMP	280	MBH	H.W.	-	STEAM SUPPLY				
FUTURE AVAILABLE LOAD CAPACITY:					10.5	KW	29.1	AMP	0.0	KW	0.0	AMP	270	MBH	1"	-	COND. RETURN				
SYSTEM CAPACITY:					14.4	KW	40.0	AMP	0.0	KW	0.0	AMP	550	MBH	1"	-					
SERVICE SIZE:					120/208 V/ 3 PH/ 50 AMP	V/ PH/ AMP										1-1/2" IPS SINGLE	1"				
<div>NOTES: 1. ALL EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH THE 2017 NFPA 70, NATIONAL ELECTRICAL CODE, AND THE 2019 NFPA 96, NATIONAL FIRE PROTECTION ASSOCIATION, SECTION 10.1.1, 10.1.2, 10.1.3, 10.1.4, 10.1.5, 10.1.6, 10.1.7, 10.1.8, 10.1.9, 10.1.10, 10.1.11, 10.1.12, 10.1.13, 10.1.14, 10.1.15, 10.1.16, 10.1.17, 10.1.18, 10.1.19, 10.1.20, 10.1.21, 10.1.22, 10.1.23, 10.1.24, 10.1.25, 10.1.26, 10.1.27, 10.1.28, 10.1.29, 10.1.30, 10.1.31, 10.1.32, 10.1.33, 10.1.34, 10.1.35, 10.1.36, 10.1.37, 10.1.38, 10.1.39, 10.1.40, 10.1.41, 10.1.42, 10.1.43, 10.1.44, 10.1.45, 10.1.46, 10.1.47, 10.1.48, 10.1.49, 10.1.50, 10.1.51, 10.1.52, 10.1.53, 10.1.54, 10.1.55, 10.1.56, 10.1.57, 10.1.58, 10.1.59, 10.1.60, 10.1.61, 10.1.62, 10.1.63, 10.1.64, 10.1.65, 10.1.66, 10.1.67, 10.1.68, 10.1.69, 10.1.70, 10.1.71, 10.1.72, 10.1.73, 10.1.74, 10.1.75, 10.1.76, 10.1.77, 10.1.78, 10.1.79, 10.1.80, 10.1.81, 10.1.82, 10.1.83, 10.1.84, 10.1.85, 10.1.86, 10.1.87, 10.1.88, 10.1.89, 10.1.90, 10.1.91, 10.1.92, 10.1.93, 10.1.94, 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10.1.895, 10.1.896, 10.1.897, 10.1.898, 10.1.899, 10.1.900, 10.1.901, 10.1.902, 10.1.903, 10.1.904, 10.1.905, 10.1.906, 10.1.907, 10.1.908, 10.1.909, 10.1.910, 10.1.911, 10.1.912, 10.1.913, 10.1.914, 10.1.915, 10.1.916, 10.1.917, 10.1.918, 10.1.919, 10.1.920, 10.</div>																					



CYBUL CYBUL WILHELM
ARCHITECTS

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30 Park Road, Suite 4
Tinton Falls, NJ 07724

BD 
engineering



Lorenzo Foods Teterboro
25 CENTRAL AVE
TETERBORO, NJ, 07608

DOB STAMP:

ISSUED FOR	
REVIEW	
PLANNING BOARD	
BUILDING DEPT	
BID	
CONSTRUCTION	
BRIAN D. TANNENHAUS	
NJ PROFESSIONAL ENGINEER	
NO. GE 45801	
DATE: 09/24/2021	

drawing name:	
HVAC CAPTIVE AIRE DETAILS	
scale:	
1" = 1'-0"	
release date:	
drawing date:	
09/24/2021	
drawn by:	
ZW	
approved by:	
KF	
project no:	
2102	
drawing no:	
M-508.00	
DOB BARCODE:	
Total	

IMPORTANT SPECIAL UDS PARTS/NOTES	
☆ TWO (2) OPTIPURE QTI1+OR WATER FILTERS WITH WINDOW.	

UDS CONSTRUCTION TO BE 16 GA., TYPE 304 STAINLESS STEEL
 UTILITY DISTRIBUTION SYSTEM MODEL UDI IS LISTED UNDER ETL FILE NUMBER 3054803 CONFORMS TO UL STD 891 CERTIFIED TO CAN/CSA C22.2 No. 31-M89
 PRIOR TO SCHEDULING UDS FOR PRODUCTION PLEASE PROVIDE APPROVED SUBMITTAL CUTSHEETS ON FINAL KITCHEN EQUIPMENT ASSOCIATED WITH THE UDS (NEW & USED) SO THAT CONNECTION SIZES, TYPES AND LOCATIONS CAN BE VERIFIED
 ANY CHANGES TO SUBMITTAL DRAWING MAY AFFECT PRICE AND PRODUCTION TIME - PLEASE FORWARD CHANGES ASAP

-----NOTE-----
 NEC REQUIRES 36" OF FIELD CLEARANCE IN FRONT OF CIRCUIT BREAKERS FOR ACCESS












SYMBOL SCHEDULE	
○	COLD WATER
○	HOT WATER
●	FILTERED WATER
●	NATURAL GAS
○	PROPANE
○	1/2" HX 1" HX
○	3/8" HX 1" HX
○	3/8" HX 3" HX
○	4" HX 3" HX
○	STEAM SUPPLY
○	STEAM CONDENSATE RETURN

- STANDARD FLAG NOTES**
- ELECTRICAL SERVICE FROM ABOVE, SEE SCHEDULE FOR DETAILS PROVIDED BY ELECTRICAL CONTRACTOR
 - 120V/240V/208V/3-Phase DEREGATED ELECTRICAL CIRCUIT INTO USE TERMINALS "H1, N1" FOR FUEL SHUT CONTROL PROVIDED BY ELECTRICAL CONTRACTOR SEE SCHEMATIC BELOW
 - 3-WIRE ELECTRICAL CIRCUIT FROM HOOD CONTROL PACKAGE TERMINALS "GAS, ST & KTY" TO USE LINE TERMINALS "GAS, ST & KTY" FOR USE SHUT DOWN IN A FIRE CONDITION PROVIDED BY ELECTRICAL CONTRACTOR SEE SCHEMATIC BELOW
 - GAS SERVICE FROM ABOVE, SEE SCHEDULE FOR SERVICE SIZE AND STYLE PROVIDED BY PLUMBING CONTRACTOR
 - COLD WATER SERVICE FROM ABOVE, SEE SCHEDULE FOR SERVICE SIZE PROVIDED BY PLUMBING CONTRACTOR
 - HOT WATER SERVICE FROM ABOVE, SEE SCHEDULE FOR SERVICE SIZE PROVIDED BY PLUMBING CONTRACTOR
 - SERVICE MAIN BREAKER V/S/HUNT TRIP AND RESET HANDLE, SEE SCHEDULE FOR DETAILS
 - STATUS INDICATOR LIGHTS
 - EMERGENCY KILL SWITCH
 - 120V RECEPTACLE W/ BREAKER & WEATHERPROOF COVER
 - ELECTRICAL LOAD CENTER WITH INDIVIDUAL CIRCUIT BREAKERS
 - ELECTRICAL WIRING TO APPLIANCES
 - STATUS INDICATOR LIGHTS
 - EMERGENCY KILL SWITCH
 - 120V RECEPTACLE W/ BREAKER & WEATHERPROOF COVER AS SPECIFIED ON THE EQUIPMENT SCHEDULE, SEE THIS SHEET
 - PLUMBING CONNECTION AS SPECIFIED ON THE EQUIPMENT SCHEDULE, SEE THIS SHEET
 - MANUAL SHUT OFF VALVE
 - 120V ELECTRICAL GAS VALVE
 - REMOVABLE ACCESS DOORS

UTILITY DISTRIBUTION SYSTEM EQUIPMENT SCHEDULE																				
CONN#	ITEM	EQUIPMENT	MANUFACTURER	MODEL #	KW	AMPS	HP	VOLT	PH	CIRCUIT BREAKER	POLES	PART #	SIZE	MBH	HOT	COLD	SUPPLY	COND. RETURN	REMARKS	
1E	135	PRESSURE FRYER	HENRY PENNY	REG-691	1.2	10.0	-	120	1	20	1	DR20	-	3/4"	100	-	-	-	SUPPLIED	GFI BREAKER
2E	135	PRESSURE FRYER	HENRY PENNY	REG-691	1.2	10.0	-	120	1	20	1	DR20	-	3/4"	100	-	-	-	QUICK DISCONNECT	5'
3E	135	PRESSURE FRYER	HENRY PENNY	REG-691	1.2	10.0	-	120	1	20	1	DR20	-	3/4"	100	-	-	-	SUPPLIED	GFI BREAKER
4E	135	PRESSURE FRYER	HENRY PENNY	REG-691	1.2	10.0	-	120	1	20	1	DR20	-	3/4"	100	-	-	-	QUICK DISCONNECT	5'
5E	135	PRESSURE FRYER	HENRY PENNY	REG-691	1.2	10.0	-	120	1	20	1	DR20	-	3/4"	100	-	-	-	QUICK DISCONNECT	5'
6E	135	PRESSURE FRYER	HENRY PENNY	REG-691	1.2	10.0	-	120	1	20	1	DR20	-	3/4"	100	-	-	-	QUICK DISCONNECT	5'
7E	135	TILT SHELLET	VULCAN	VS40	1.2	9.0	-	120	1	20	1	DR20	-	3/4"	120	-	-	-	QUICK DISCONNECT	5'
8E	135	TILT SHELLET	VULCAN	VS40	1.2	9.0	-	120	1	20	1	DR20	-	3/4"	120	-	-	-	QUICK DISCONNECT	5'
9E	135	TILT SHELLET	VULCAN	VS40	1.2	9.0	-	120	1	20	1	DR20	-	3/4"	120	-	-	-	QUICK DISCONNECT	5'
10E	135	TILT SHELLET	ELECTROLUX	88700R	1.2	10.0	-	120	1	20	1	DR20	-	3/4"	100	-	-	-	QUICK DISCONNECT	5'
11E	135	TILT SHELLET	ELECTROLUX	88700R	1.2	10.0	-	120	1	20	1	DR20	-	3/4"	100	-	-	-	QUICK DISCONNECT	5'
12E	135	TILT SHELLET	ELECTROLUX	88700R	1.2	10.0	-	120	1	20	1	DR20	-	3/4"	100	-	-	-	QUICK DISCONNECT	5'
13E	135	TILT SHELLET	ELECTROLUX	88700R	1.2	10.0	-	120	1	20	1	DR20	-	3/4"	100	-	-	-	QUICK DISCONNECT	5'
14E	135	TILT SHELLET	ELECTROLUX	88700R	1.2	10.0	-	120	1	20	1	DR20	-	3/4"	100	-	-	-	QUICK DISCONNECT	5'
15E	160	STOCK HOT RANGE	WOLF	WSPR2	0.5	4.0	-	120	1	20	1	DR20	-	3/4"	220	-	-	-	QUICK DISCONNECT	5'
16E	102	TENVEY RANGE	BOSS-108	0.5	4.0	-	120	1	20	1	DR20	-	-	-	-	-	-	SUPPLIED	GFI BREAKER	
17E	102	TENVEY RANGE	BOSS-108	0.5	4.0	-	120	1	20	1	DR20	-	1"	358	-	-	-	QUICK DISCONNECT	5'	
18E	215	COMBI OVEN	ALTO-SHAAM	CTP20-200	2.0	9.6	208	3	15	3	-	-	-	-	-	-	-	DIRECT	8" COND/IT & WIRE	
19E	215	COMBI OVEN	ALTO-SHAAM	CTP20-200	2.0	9.6	208	3	15	3	-	-	3/4"	266	-	-	-	QUICK DISCONNECT	5'	
20E	215	COMBI OVEN	ALTO-SHAAM	CTP20-200	2.0	9.6	208	3	15	3	-	-	3/4"	266	-	-	-	QUICK DISCONNECT	5'	
21E	215	COMBI OVEN	ALTO-SHAAM	CTP20-200	2.0	9.6	208	3	15	3	-	-	3/4"	266	-	-	-	QUICK DISCONNECT	5'	
22E	215	COMBI OVEN	ALTO-SHAAM	CTP20-200	2.0	9.6	208	3	15	3	-	-	3/4"	266	-	-	-	QUICK DISCONNECT	5'	
23E	215	COMBI OVEN	ALTO-SHAAM	CTP20-200	2.0	9.6	208	3	15	3	-	-	3/4"	266	-	-	-	QUICK DISCONNECT	5'	
24E	215	COMBI OVEN	ALTO-SHAAM	CTP20-200	2.0	9.6	208	3	15	3	-	-	3/4"	266	-	-	-	QUICK DISCONNECT	5'	
25E	215	COMBI OVEN	ALTO-SHAAM	CTP20-200	2.0	9.6	208	3	15	3	-	-	3/4"	266	-	-	-	QUICK DISCONNECT	5'	
26E	215	COMBI OVEN	ALTO-SHAAM	CTP20-200	2.0	9.6	208	3	15	3	-	-	3/4"	266	-	-	-	QUICK DISCONNECT	5'	
27E	215	COMBI OVEN	ALTO-SHAAM	CTP20-200	2.0	9.6	208	3	15	3	-	-	3/4"	266	-	-	-	QUICK DISCONNECT	5'	
28E	215	COMBI OVEN	ALTO-SHAAM	CTP20-200	2.0	9.6	208	3	15	3	-	-	3/4"	266	-	-	-	QUICK DISCONNECT	5'	
29E	215	COMBI OVEN	ALTO-SHAAM	CTP20-200	2.0	9.6	208	3	15	3	-	-	3/4"	266	-	-	-	QUICK DISCONNECT	5'	
30E	215	COMBI OVEN	ALTO-SHAAM	CTP20-200	2.0	9.6	208	3	15	3	-	-	3/4"	266	-	-	-	QUICK DISCONNECT	5'	
31E	215	COMBI OVEN	ALTO-SHAAM	CTP20-200	2.0	9.6	208	3	15	3	-	-	3/4"	266	-	-	-	QUICK DISCONNECT	5'	
32E	215	COMBI OVEN	ALTO-SHAAM	CTP20-200	2.0	9.6	208	3	15	3	-	-	3/4"	266	-	-	-	QUICK DISCONNECT	5'	
33E	215	COMBI OVEN	ALTO-SHAAM	CTP20-200	2.0	9.6	208	3	15	3	-	-	3/4"	266	-	-	-	QUICK DISCONNECT	5'	
34E	215	COMBI OVEN	ALTO-SHAAM	CTP20-200	2.0	9.6	208	3	15	3	-	-	3/4"	266	-	-	-	QUICK DISCONNECT	5'	
35E	215	COMBI OVEN	ALTO-SHAAM	CTP20-200	2.0	9.6	208	3	15	3	-	-	3/4"	266	-	-	-	QUICK DISCONNECT	5'	
36E	215	COMBI OVEN	ALTO-SHAAM	CTP20-200	2.0	9.6	208	3	15	3	-	-	3/4"	266	-	-	-	QUICK DISCONNECT	5'	
37E	215	COMBI OVEN	ALTO-SHAAM	CTP20-200	2.0	9.6	208	3	15	3	-	-	3/4"	266	-	-	-	QUICK DISCONNECT	5'	
38E	215	COMBI OVEN	ALTO-SHAAM	CTP20-200	2.0	9.6	208	3	15	3	-	-	3/4"	266	-	-	-	QUICK DISCONNECT	5'	
39E	215	COMBI OVEN	ALTO-SHAAM	CTP20-200	2.0	9.6	208	3	15	3	-	-	3/4"	266	-	-	-	QUICK DISCONNECT	5'	
40E	215	COMBI OVEN	ALTO-SHAAM	CTP20-200	2.0	9.6	208	3	15	3	-	-	3/4"	266	-	-	-	QUICK DISCONNECT	5'	
41E	215	COMBI OVEN	ALTO-SHAAM	CTP20-200	2.0	9.6	208	3	15	3	-	-	3/4"	266	-	-	-	QUICK DISCONNECT	5'	
42E	215	COMBI OVEN	ALTO-SHAAM	CTP20-200	2.0	9.6	208	3	15	3	-	-	3/4"	266	-	-	-	QUICK DISCONNECT	5'	
43E	215	COMBI OVEN	ALTO-SHAAM	CTP20-200	2.0	9.6	208	3	15	3	-	-	3/4"	266	-	-	-	QUICK DISCONNECT	5'	
44E	215	COMBI OVEN	ALTO-SHAAM	CTP20-200	2.0	9.6	208	3	15	3	-	-	3/4"	266	-	-	-	QUICK DISCONNECT	5'	
45E	215	COMBI OVEN	ALTO-SHAAM	CTP20-200	2.0	9.6	208	3	15	3	-	-	3/4"	266	-	-	-	QUICK DISCONNECT	5'	
46E	215	COMBI OVEN	ALTO-SHAAM	CTP20-200	2.0	9.6	208	3	15	3	-	-	3/4"	266	-	-	-	QUICK DISCONNECT	5'	
47E	215	COMBI OVEN	ALTO-SHAAM	CTP20-200	2.0	9.6	208	3	15	3	-	-	3/4"	266	-	-	-	QUICK DISCONNECT	5'	
48E	215	COMBI OVEN	ALTO-SHAAM	CTP20-200	2.0	9.6	208	3	15	3	-	-	3/4"	266	-	-	-	QUICK DISCONNECT	5'	
49E	215	COMBI OVEN	ALTO-SHAAM	CTP20-200	2.0	9.6	208	3	15	3	-	-	3/4"	266	-	-	-	QUICK DISCONNECT	5'	
50E	215	COMBI OVEN	ALTO-SHAAM	CTP20-200	2.0	9.6	208	3	15	3	-	-	3/4"	266	-	-	-	QUICK DISCONNECT	5'	
51E	215	COMBI OVEN	ALTO-SHAAM	CTP20-200	2.0	9.6	208	3	15	3	-	-	3/4"	266	-	-	-	QUICK DISCONNECT	5'	
52E	215	COMBI OVEN	ALTO-SHAAM	CTP20-200	2.0	9.6	208	3	15	3	-	-	3/4"	266	-	-	-	QUICK DISCONNECT	5'	
53E	215	COMBI OVEN	ALTO-SHAAM	CTP20-200	2.0	9.6	208	3	15	3	-	-	3/4"	266	-	-	-	QUICK DISCONNECT	5'	
54E	215	COMBI OVEN	ALTO-SHAAM	CTP20-200	2.0	9.6	208	3	15	3	-	-	3/4"	266	-	-	-	QUICK DISCONNECT	5'	
55E	215	COMBI OVEN	ALTO-SHAAM	CTP20-200	2.0	9.6	208	3	15	3	-	-	3/4"	266	-	-	-	QUICK DISCONNECT	5'	
56E	215	COMBI OVEN	ALTO-SHAAM	CTP20-200	2.0	9.6	208	3	15	3	-	-	3/4"	266	-	-	-	QUICK DISCONNECT	5'	
57E	215	COMBI OVEN	ALTO-SHAAM	CTP20-200	2.0	9.6	208	3	15	3	-	-	3/4"	266	-	-	-	QUICK DISCONNECT	5'	
58E	215	COMBI OVEN	ALTO-SHAAM	CTP20-200	2.0	9.6	208	3	15	3	-	-	3/4"	266	-	-	-	QUICK DISCONNECT	5'	
59E	215	COMBI OVEN	ALTO-SHAAM	CTP20-200	2.0	9.6	208	3	15	3	-	-	3/4"	266	-	-	-	QUICK DISCONNECT	5'	
60E	215	COMBI OVEN	ALTO-SHAAM	CTP20-200	2.0	9.6	208	3	15	3	-	-	3/4"	266	-	-	-	QUICK DISCONNECT	5'	
61E	215	COMBI OVEN	ALTO-SHAAM	CTP20-200	2.0	9.6	208	3	15	3	-	-	3/4"	266	-	-	-	QUICK DISCONNECT	5'	
62E	215	COMBI OVEN	ALTO-SHAAM	CTP20-200	2.0	9.6	208	3	15	3	-	-	3/4"	266	-	-	-	QUICK DISCONNECT	5'	
63E	215	COMBI OVEN	ALTO-SHAAM	CTP20-200	2.0	9.6	208	3	15	3	-	-	3/4"	266	-	-	-	QUICK DISCONNECT	5'	
64E	215	COMBI OVEN	ALTO-SHAAM	CTP20-200	2.0	9.6	208	3	15	3	-	-	3/4"	266	-	-	-	QUICK DISCONNECT	5'	
65E	215	COMBI OVEN	ALTO-SHAAM	CTP20-200	2.0	9.6	208	3	15	3	-	-	3/4"	266	-	-	-	QUICK DISCONNECT	5'	
66E	215	COMBI OVEN	ALTO-SHAAM	CTP20-200	2.0	9.6	208	3	15	3	-	-	3/4"	266	-	-	-	QUICK DISCONNECT	5'	
67E	215	COMBI OVEN	ALTO-SHAAM	CTP20-200	2.0	9.6	208	3	15	3	-	-	3/4"	266	-	-	-	QUICK DISCONNECT	5'	
68E	215	COMBI OVEN	ALTO-SHAAM	CTP20-200	2.0	9.6	208	3	15	3	-	-	3/4"	266	-	-	-	QUICK DISCONNECT	5'	
69E	215	COMBI OVEN	ALTO-SHAAM	CTP20-200	2.0	9.6	208	3	15	3	-	-	3/4"	266	-	-	-	QUICK DISCONNECT	5'	
70E	215	COMBI OVEN	ALTO-SHAAM	CTP20-200	2.0	9.6	208	3	15	3	-	-	3/4"	266	-	-	-	QUICK DISCONNECT	5'	
71E	215	COMBI OVEN	ALTO-SHAAM	CTP20-200	2.0	9.6	208	3	15	3	-	-	3/4"	266	-	-	-	QUICK DISCONNECT	5'	
72E	215	COMBI OVEN	ALTO-SHAAM	CTP20-200	2.0	9.6	208	3	15	3	-	-	3/4"	266	-	-	-	QUICK DISCONNECT	5'	
73E	215	COMBI OVEN	ALTO-SHAAM	CTP20-200	2.0	9.6	208	3	15	3	-	-	3/4"	266	-	-	-	QUICK DISCONNECT	5'	
74E	215	COMBI OVEN	ALTO-SHAAM	CTP20-200	2.0	9.6	208	3	15	3	-	-	3/4"	266	-	-	-	QUICK DISCONNECT	5'	
75E	215	COMBI OVEN	ALTO-SHAAM	CTP20-200	2.0	9.6	208	3	15	3	-	-	3/4"	266	-	-	-	QUICK DISCONNECT	5'	
76E	215	COMBI OVEN	ALTO-SHAAM	CTP20-200	2.0	9.6	208	3	15	3	-	-	3/4"	266	-	-	-	QUICK DISCONNECT	5'	
77E	215	COMBI OVEN	ALTO-SHAAM	CTP20-200	2.0	9.6	208	3	15	3	-	-	3/4"	266	-	-	-	QUICK DISCONNECT	5'	
78E	215	COMBI OVEN	ALTO-SHAAM	CTP20-200	2.0	9.6	208	3	15	3	-	-	3/4"	266	-	-	-	QUICK DISCONNECT	5'	
79E	215	COMBI OVEN	ALTO-SHAAM	CTP20-200	2.0	9.6	208	3	15	3	-	-	3/4"	266	-	-	-	QUICK DISCONNECT	5'	
80E	215	COMBI OVEN	ALTO-SHAAM	CTP20-200	2.0	9.6	208	3	15	3	-	-	3/4"	266	-	-	-	QUICK DISCONNECT	5'	
81E	215	COMBI OVEN	ALTO-SHAAM	CTP20-200	2.0	9.6	208	3	15	3	-	-</								

<p>UDS CONSTRUCTION TO BE 16 GA., TYPE 304 STAINLESS STEEL</p>
<p>UTILITY DISTRIBUTION SYSTEM MODEL UDI IS LISTED UNDER ETL FILE NUMBER 3054803 CONFORMS TO UL STD 89 CERTIFIED TO CAN/CSA C22.2 No. 31-M89</p>
<p>PRIOR TO SCHEDULING UDS FOR PRODUCTION PLEASE PROVIDE APPROVED SUBMITTAL CUTSHEETS ON FINAL DESIGN TO BE COORDINATED WITH THE UDS (NEW & USED) SO THAT CONNECTION SIZES, TYPES AND LOCATIONS CAN BE VERIFIED</p>
<p>ANY CHANGES TO SUBMITTAL DRAWING <u>MAY AFFECT PRICE AND PRODUCTION TIME</u> <u>PLEASE FORWARD CHANGES ASAP</u></p>

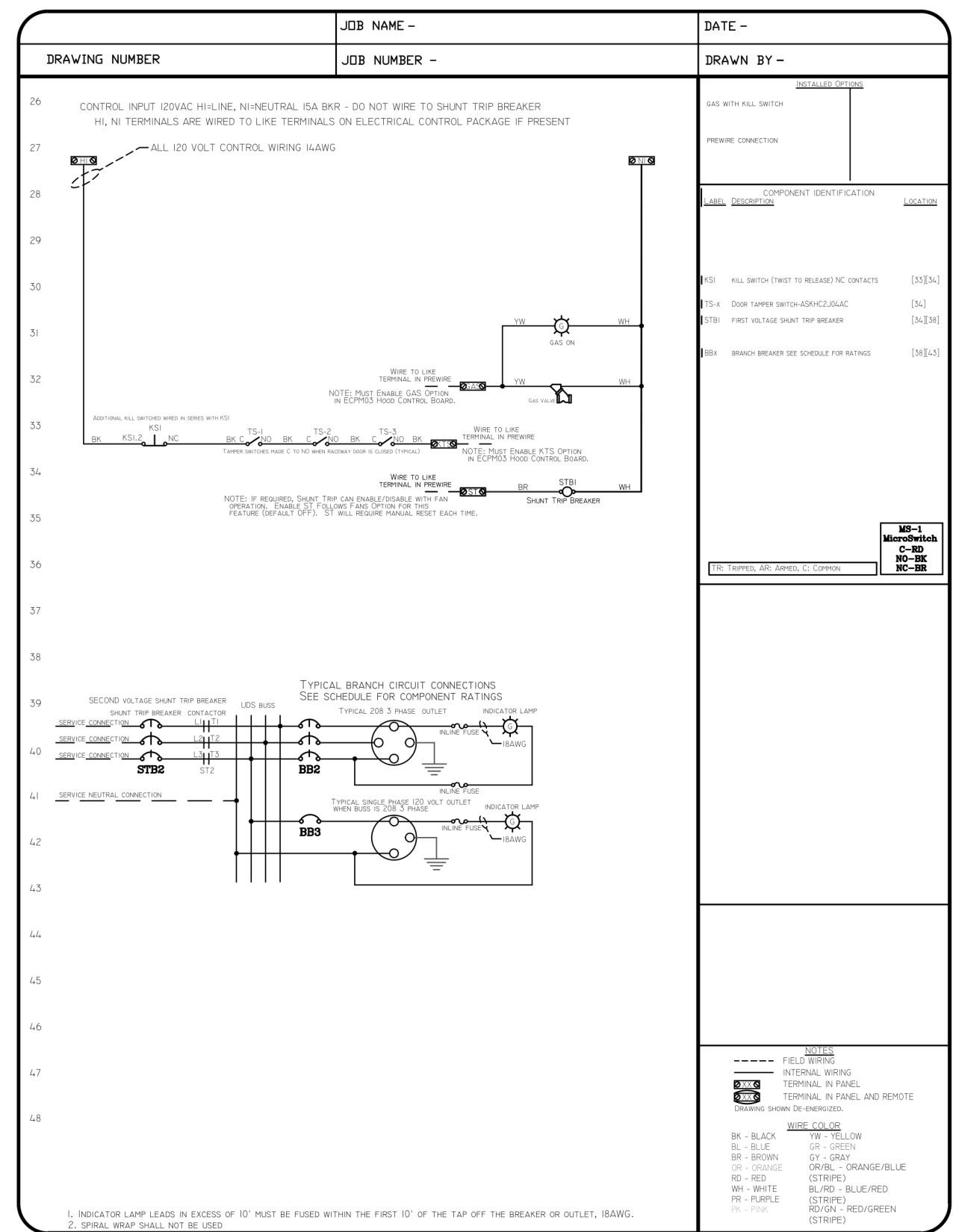
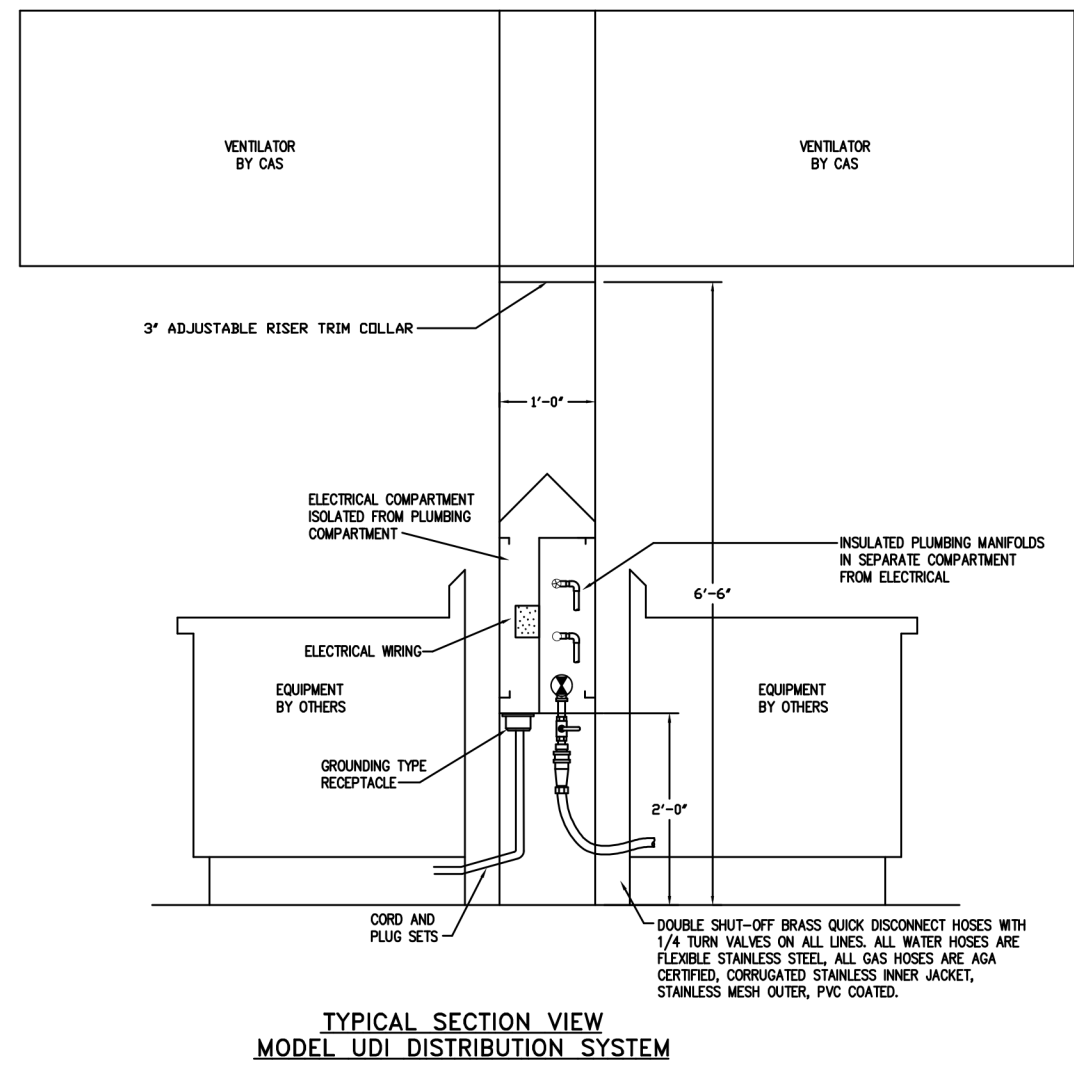
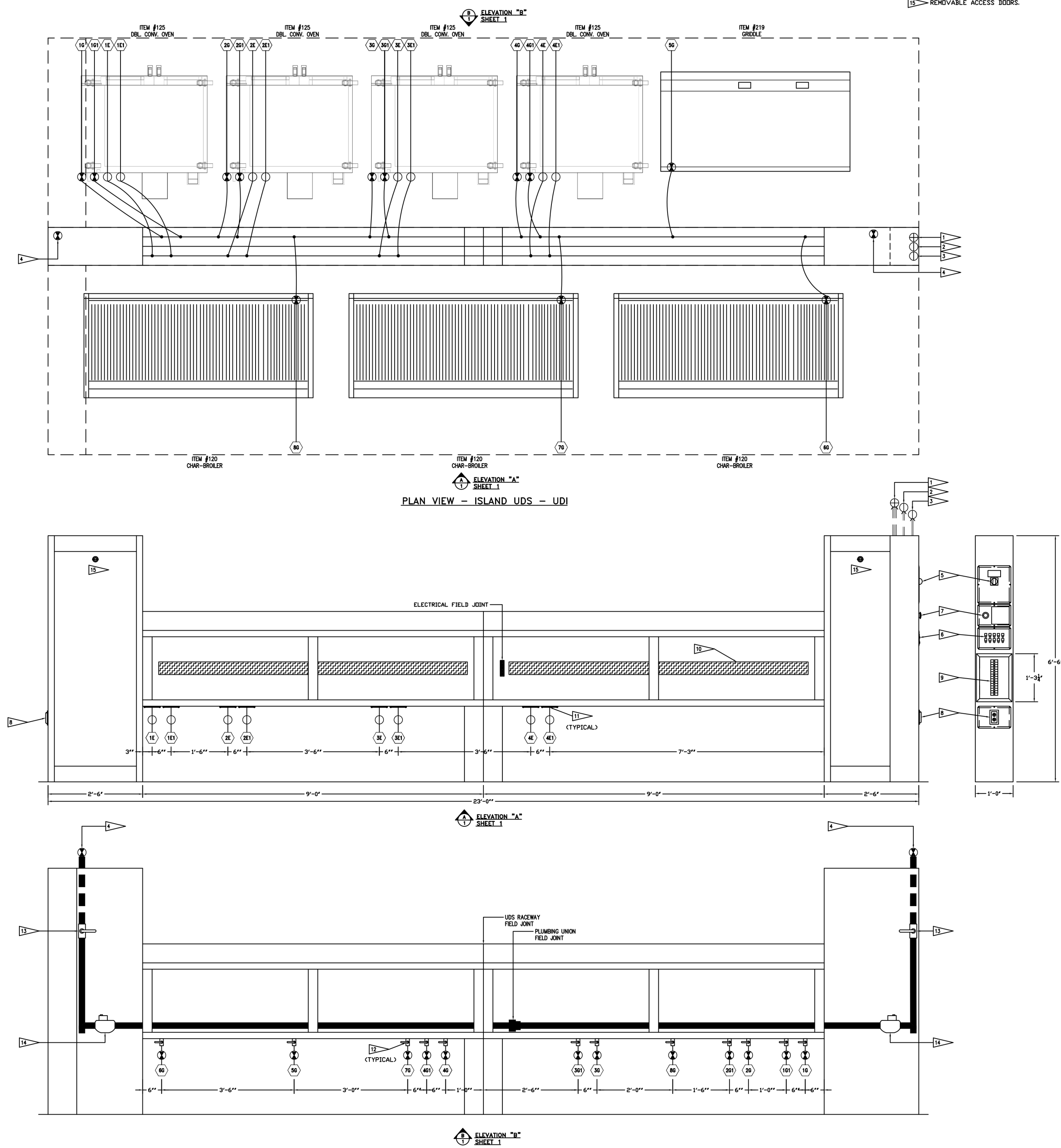
-----NOTE-----
NEC REQUIRES 36"
OF FIELD CLEARANCE
IN FRONT OF CIRCUIT
BREAKERS FOR ACCESS

SYMBOL SCHEDULE	
	COLD WATER
	HOT WATER
	FILTERED WATER
	NATURAL GAS
	PROPANE
	120 VAC 1 PHASE
	208 VAC 1 PHASE
	208 VAC 3 PHASE
	480 VAC 3 PHASE
	STEAM SUPPLY
	STEAM CONDENSATE RETURN

STANDARD FLAG NOTES

- ELECTRICAL SERVICE FROM ABOVE, SEE SCHEDULE FOR DETAILS. PROVIDED BY ELECTRICAL CONTRACTOR.
- INDUSTRY/VAH DESIGNATES ELECTRICAL CROUPEL INTO TERMINALS "NO. 1" THROUGH "NO. 10".
- WIRE ELECTRICAL CROUPEL FROM ABOVE INTO TERMINAL BELLY.
- WIRE ELECTRICAL CROUPEL FROM COLD CONTROL DUCTS, TERMINAL "X" & "Y" TO USE LINE TERMINAL "X" & "Y" & STIP FOR CROUPEL SHOWN IN A FUTURE PROVIDED BY ELECTRICAL CONTRACTOR.
- GAS SERVICE FROM ABOVE, SEE SCHEDULE FOR SERVICE SIZE & STYLE PROVIDED BY PLUMBING CONTRACTOR.
- SERVICE MAIN BREAKER VULCANTRIP TRIP AND RESET HANDLES, SEE SCHEDULE FOR DETAILS.
- FURNISH INSULATION.
- EMERGENCY CALL SWITCH.
- DO NOT RECEPTACLE OR WIREMEN & WATERPROOF COVER.
- ELECTRICAL, LINE CENTER WITH WATERPROOF COVER ELECTRICAL BREAKERS.
- ELECTRICAL, WIREMEN TO APPLIANCE.
- ELECTRICAL CONNECTION VULCANTRIP/WATERPROOF COVER AS SPECIFIED ON THE EQUIPMENT SCHEDULE. THE EQUIPMENT SCHEDULE IS THE GOVERNOR.
- PLUMBING CONNECTION AS SPECIFIED ON THE EQUIPMENT SCHEDULE, SEE THIS SHEET.
- MANUAL SHUT OFF VALVE.
- ANY ELECTRICAL, GAS VALVE.
- REMOVABLE ACCESS DOORS.

UTILITY DISTRIBUTION SYSTEM EQUIPMENT SCHEDULE																						
EQUIPMENT			ELECTRON				CIRCUIT BREAKER			ACCEPTANCE		GAS		WATER		STEAM		CONNECTION			NOTES	
CONTR#	ITEM	DESCRIPTION	MANUFACTURER	MODEL #	KW	AMPS	VOLT	PH	AMPS	POLES	PART #	SIZE	MMH	HOT/COLD	SUPPLY	COND. RETURN	LB/HR	TYPE	LENGTH			
31	125	DRL. CONCL. OUTLET	JULIEN	VESSID	0.9	7.7	-	120	1	20	1	DR20	-	-	-	-	-	-	SUPPLIED	-	GH BREAKER	
311	125	DRL. CONCL. OUTLET	JULIEN	VESSID	0.9	7.7	-	120	1	20	1	DR20	-	-	-	-	-	-	SUPPLIED	-	GH BREAKER	
16	125	DRL. CONCL. OUTLET	JULIEN	VESSID	-	-	-	-	-	-	-	3/4"	50	-	-	-	-	-	QUICK DISCONNECT	5'	-	
131	125	DRL. CONCL. OUTLET	JULIEN	VESSID	-	-	-	-	-	-	-	3/4"	50	-	-	-	-	-	QUICK DISCONNECT	5'	-	
21	125	DRL. CONCL. OUTLET	JULIEN	VESSID	0.9	7.7	-	120	1	20	1	DR20	-	-	-	-	-	-	SUPPLIED	-	GH BREAKER	
211	125	DRL. CONCL. OUTLET	JULIEN	VESSID	0.9	7.7	-	120	1	20	1	DR20	-	-	-	-	-	-	SUPPLIED	-	GH BREAKER	
20	125	DRL. CONCL. OUTLET	JULIEN	VESSID	-	-	-	-	-	-	-	3/4"	50	-	-	-	-	-	QUICK DISCONNECT	5'	-	
201	125	DRL. CONCL. OUTLET	JULIEN	VESSID	-	-	-	-	-	-	-	3/4"	50	-	-	-	-	-	QUICK DISCONNECT	5'	-	
31	125	DRL. CONCL. OUTLET	JULIEN	VESSID	0.9	7.7	-	120	1	20	1	DR20	-	-	-	-	-	-	SUPPLIED	-	GH BREAKER	
311	125	DRL. CONCL. OUTLET	JULIEN	VESSID	0.9	7.7	-	120	1	20	1	DR20	-	-	-	-	-	-	SUPPLIED	-	GH BREAKER	
30	125	DRL. CONCL. OUTLET	JULIEN	VESSID	-	-	-	-	-	-	-	3/4"	50	-	-	-	-	-	QUICK DISCONNECT	5'	-	
131	125	DRL. CONCL. OUTLET	JULIEN	VESSID	-	-	-	-	-	-	-	3/4"	50	-	-	-	-	-	QUICK DISCONNECT	5'	-	
41	125	DRL. CONCL. OUTLET	JULIEN	VESSID	0.9	7.7	-	120	1	20	1	DR20	-	-	-	-	-	-	SUPPLIED	-	GH BREAKER	
411	125	DRL. CONCL. OUTLET	JULIEN	VESSID	0.9	7.7	-	120	1	20	1	DR20	-	-	-	-	-	-	SUPPLIED	-	GH BREAKER	
40	125	DRL. CONCL. OUTLET	JULIEN	VESSID	-	-	-	-	-	-	-	3/4"	50	-	-	-	-	-	QUICK DISCONNECT	5'	-	
401	125	DRL. CONCL. OUTLET	JULIEN	VESSID	-	-	-	-	-	-	-	3/4"	50	-	-	-	-	-	QUICK DISCONNECT	5'	-	
30	239	CHAR-BROLER	WOLF	ACB7	-	-	-	-	-	-	-	3/4"	221	-	-	-	-	-	QUICK DISCONNECT	5'	-	
70	120	CHAR-BROLER	WOLF	ACB7	-	-	-	-	-	-	-	3/4"	221	-	-	-	-	-	QUICK DISCONNECT	5'	-	
80	120	DUPLEX OUTLET	WOLF	ACB7	-	-	-	-	-	-	-	3/4"	221	-	-	-	-	-	QUICK DISCONNECT	5'	-	
01	-	DUPLEX OUTLET	-	-	-	-	-	120	1	20	1	DR20	-	-	-	-	-	-	SUPPLIED	-	GH BREAKER	
02	-	DUPLEX OUTLET	-	-	-	-	-	120	1	20	1	DR20	-	-	-	-	-	-	SUPPLIED	-	GH BREAKER	
TOTAL CONNECTION LOAD:					7.4	KW	25.5	AMP	0.0	KW	0.0	AMP	1198	MMH	H.W.	STEAM SUPPLY						
TOTAL AVAILABLE LOAD CAPACITY:					7.4	KW	25.5	AMP	0.0	KW	0.0	AMP	1192	MMH	C.W.	COND. RETURN						
SYSTEM SIZE:					2.88	KW	80.0	AMP	0.0	KW	0.0	AMP	2350	MMH	C.W.							
120/208 V / 3 PH 100 AMP					V / PH / AMP					2" IPS LOOPED												



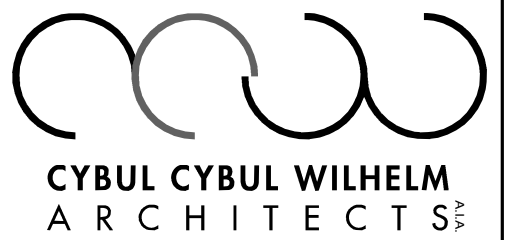
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AND INSTALLATION INSTRUCTIONS FOR FINAL
REQUIREMENTS.

[illegible]

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lorenzofood
group

Lorenzo Foods Teterboro

25 CENTRAL AVE
ETERBORO, NJ. 0760

DOB STAMP:

DATE: 7/6/2021

DWG.#:
4967555

DRAWN BY: ZDK

SCALE:
1/2" = 1'-0"

MASTER DRAWING

SHEET NO.
4

BRIAN D. TANNENHAUS

NJ PROFESSIONAL ENGINEER
NO. GE 45801
DATE: 09/24/2021

wing name:

CAPTIVE AIRE DETAILS

Downloaded from <http://ajphaphapublications.sagepub.com/> at 11:00 11 November 2014

re:

Journal of Management Inquiry 22(1)

94

444

2102

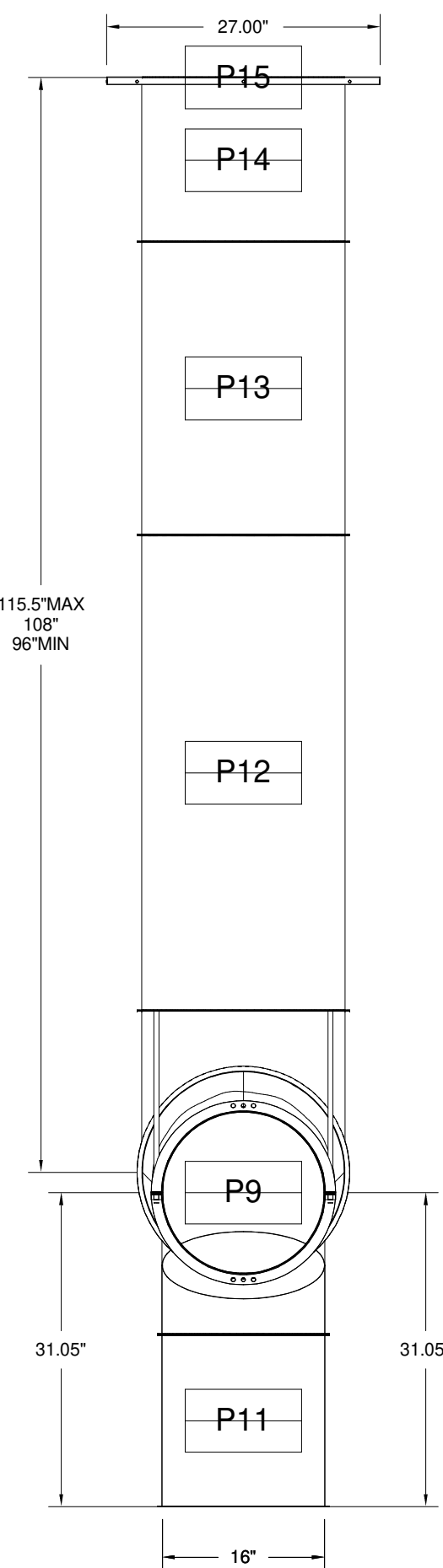
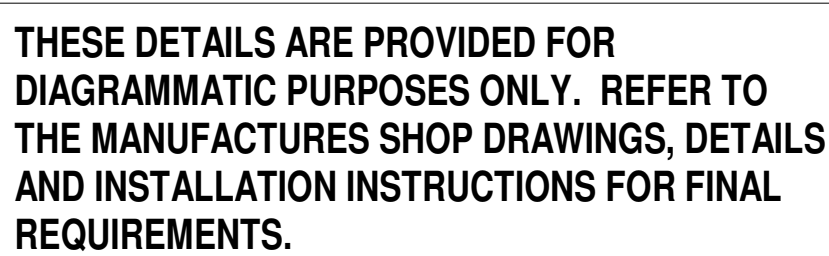
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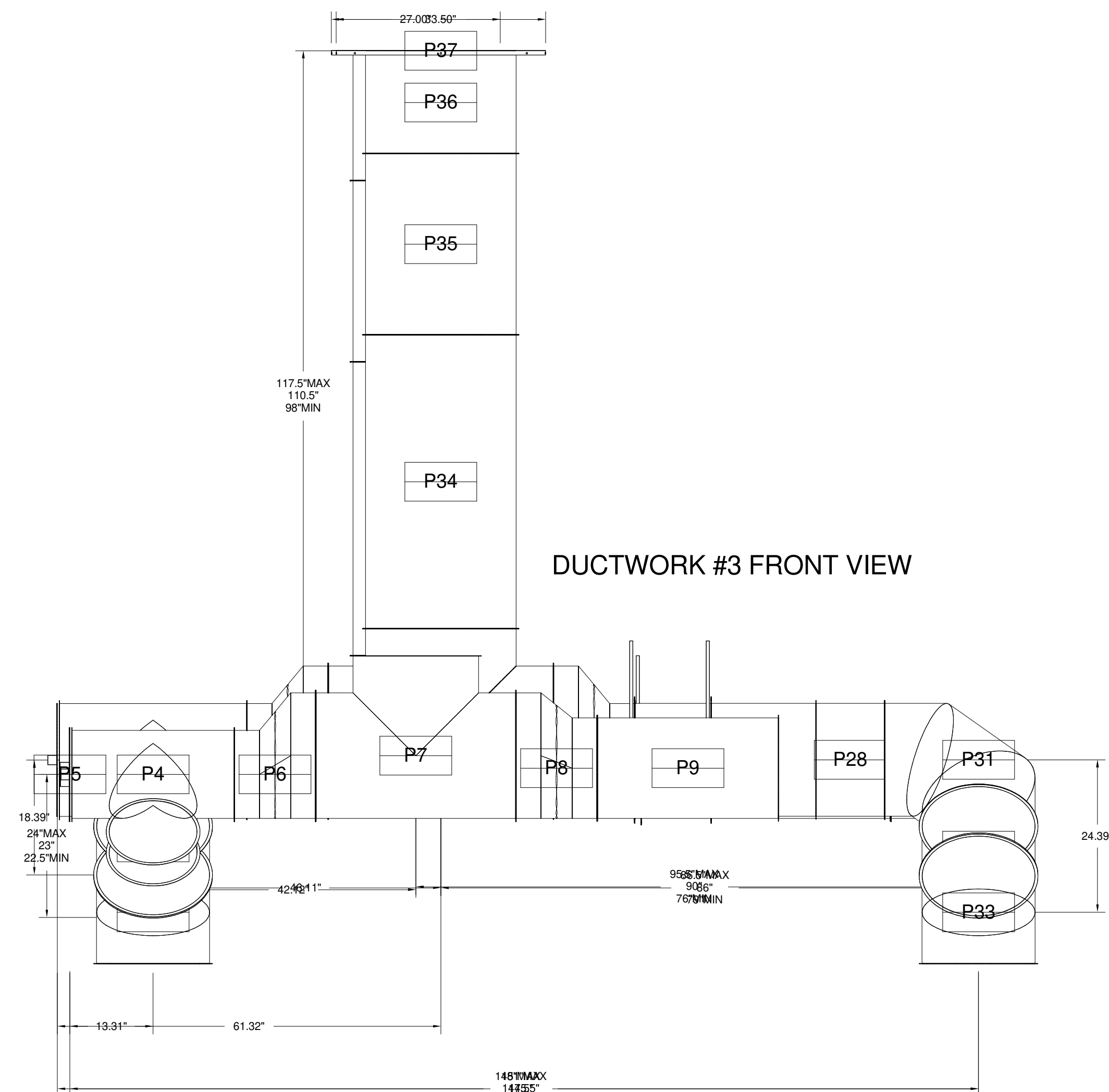
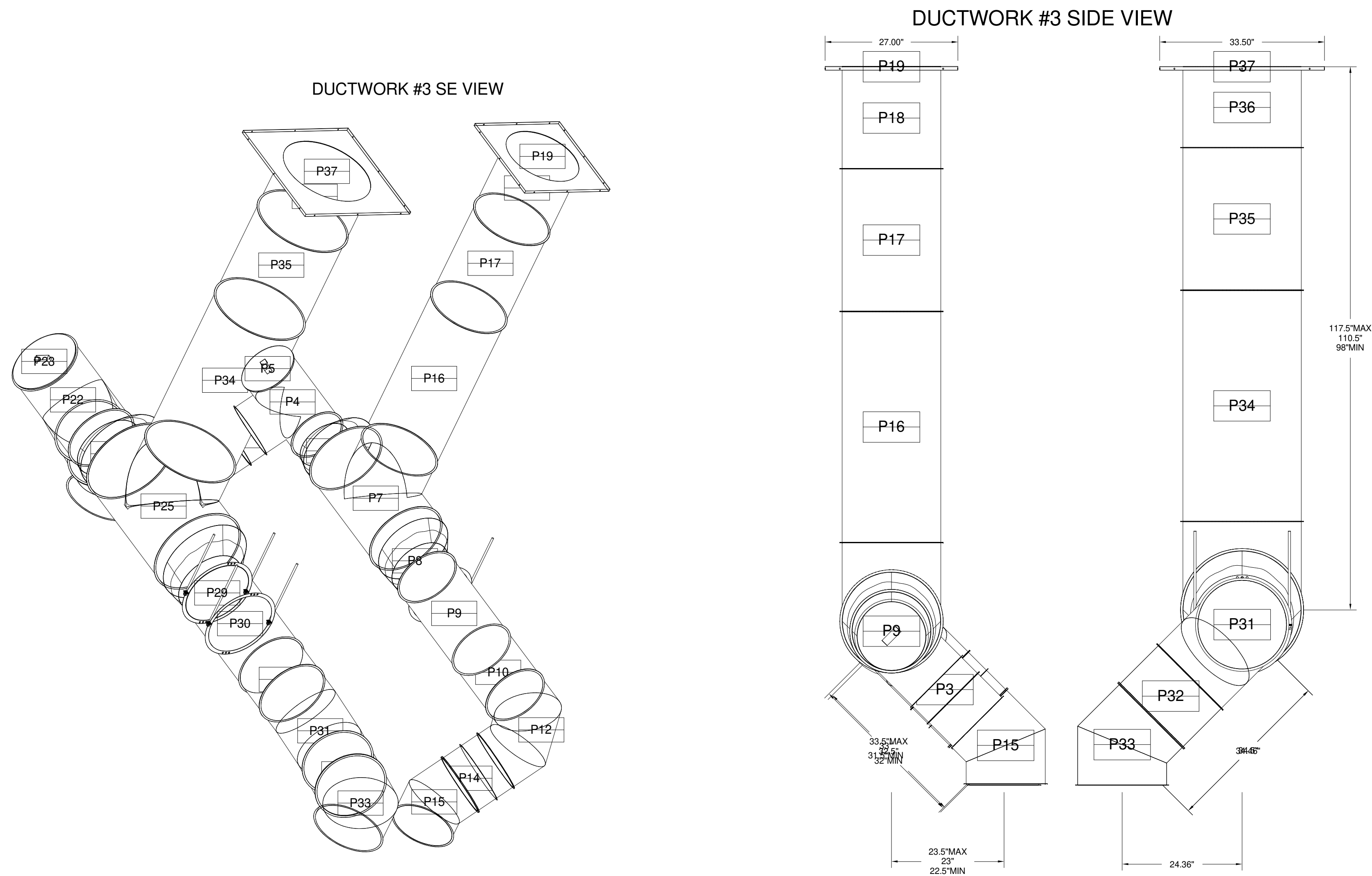
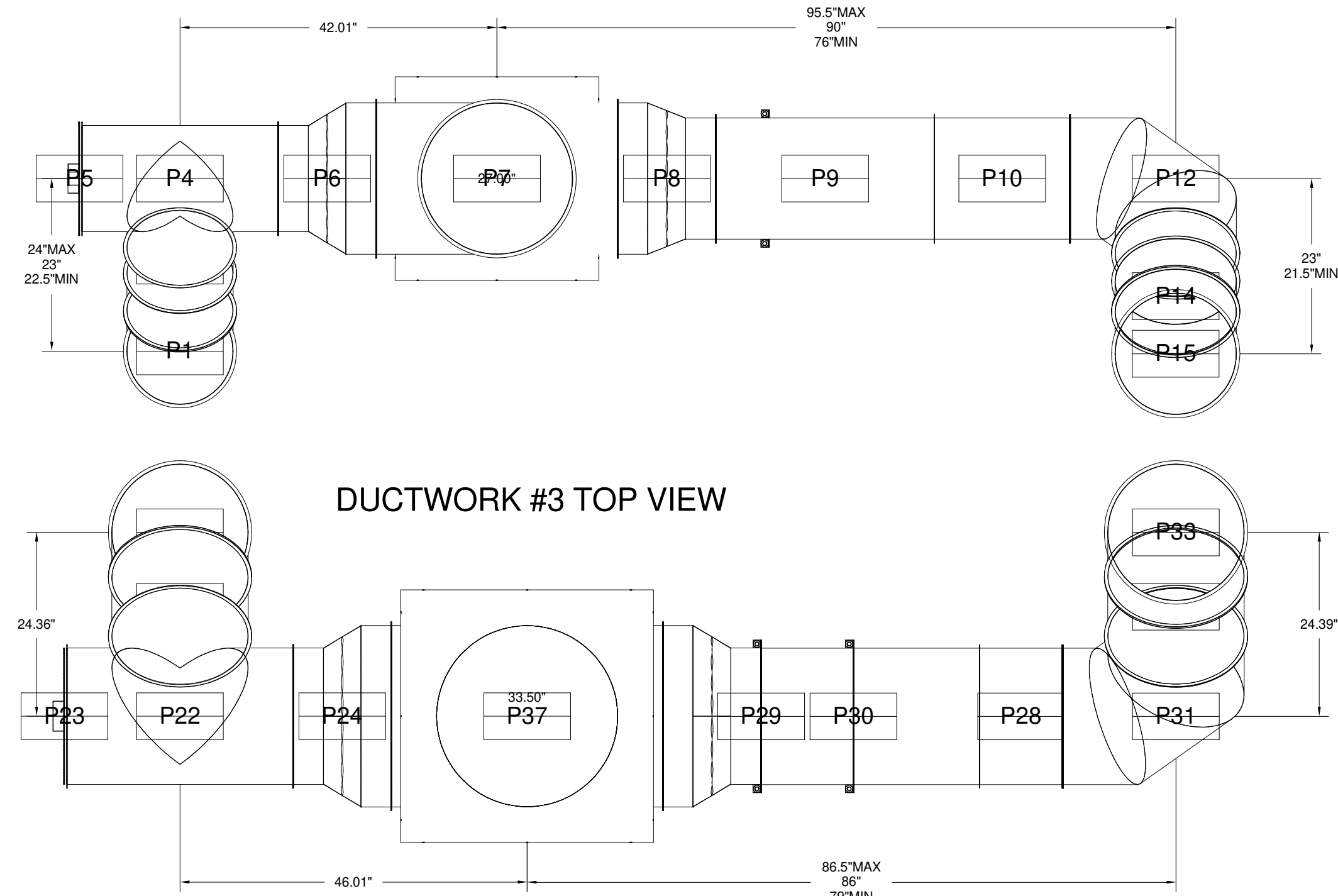
- WHERE HORIZONTAL DUCTS EXCEED 75 FEET IN LENGTH, THE SLOPE SHALL NOT BE LESS THAN 3/16" PER LINEAR FOOT.

DO NOT LEAK TEST USING SMOKE BOMBS CONTAINING CHLORINES/CHLORIDES. CONSULT WITH CAPTIVEAIRE FOR PROPER LEAK TESTING METHODS.

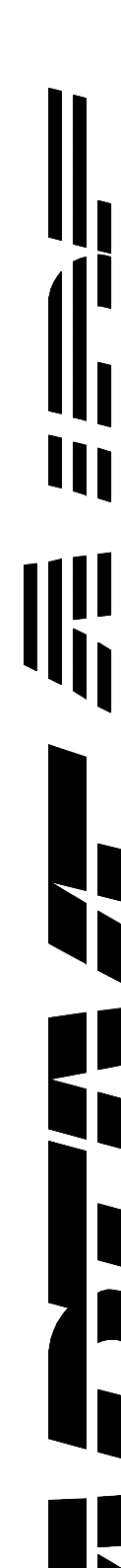



scale:	As indicated
release date:	
drawing date:	09/24/2021
drawn by:	ZW
approved by:	KF
project no.:	2102
drawing no.:	M-511.00
GDB BAPCODE: <div style="float: right;">Total</div>	

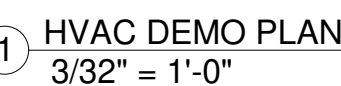
DUC/BROWNE PARTS - J0H14967555									
TAG	PART #	CFM	QPM	ZONE	COVEREDRY	SP	WEIGHT	VELOCITY	QTY DESCRIPTION
P1	DW1445ASY	1925				0.025	7.2	1800.72	1 SINGLE WALL DUCT 45 DEGREE ELBOW, 14" DUCT ASSEMBLY.
P2	DW1407LT	1825				0.036	3.63	1000.72	1 SINGLE WALL DUCT 1/2 DIAMETER, 17" LONG, FLANGE AT BOTH ENDS. STAINLESS STEEL.
P3	DW1412ADKCT	1925				0.024	9.56	1800.72	1 SINGLE WALL DUCT ADJUSTABLE, 1/2 DIAMETER, 11.5" LONG, FLANGE AT ONE END WITH A 14" ADJUSTABLE COLLAR. STAINLESS STEEL.
P4	ASSEMBLED WP5	1925				0.1824	15.96	1800.72	1 SINGLE WALL DUCT TEE, 1/2" DUCT ASSEMBLY.
P5	ASSEMBLED WP5 O-S	1925					3.72		1 DUCT ACCESS DOOR WITH HANDLE & GREASE DAM FOR 1/2" DUCT USE 1/4" DOOR. STAINLESS STEEL.
P6	DW1450ADPC	1925				0.112	8.99	1800.72	1 SINGLE WALL DUCT ADAPTER, 1/4" DUCT DIA TO 24" DUCT DIA. ECCENTRIC ASSEMBLY.
P7	DW1450ADPC	4125			1	0.445	21.8	1890.76	1 SINGLE WALL DUCT TEE, 3/2" DUCT ASSEMBLY.
P8	DW1830ADPC	2000				0.205	12.03	1575.63	1 SINGLE WALL DUCT ADAPTER, 1/2" DUCT DIA TO 20" DUCT DIA. ECCENTRIC ASSEMBLY.
P9	DW1620LT	2200				0.093	15.68	1575.63	1 SINGLE WALL DUCT ADJUSTABLE, 1/2" DIAMETER, 29" LONG, FLANGE AT BOTH ENDS. STAINLESS STEEL.
P10	DW1830ADKCT	2200				0.057	20.68	1575.63	1 SINGLE WALL DUCT ADJUSTABLE, 1/2" DIAMETER, 29.5" LONG, FLANGE AT ONE END WITH A 18" ADJUSTABLE COLLAR. STAINLESS STEEL.
P11	DW185UBRAY						3.18		1 DUCT SUPPORT BRACKET, 1/2" DUCT, USED FOR HANGING DUCT 1/2 GA STEEL, CLEAR ZINC COATING - 2 INGS. & BRACKETS, A HARDWARE BAG.
P12	DW1860ASY	2200				0.1468	13.00	1575.63	1 SINGLE WALL DUCT 90 DEGREE ELBOW, 1/2" DUCT ASSEMBLY.
P13	DW1860SLT	2200				0.015	4.00	1575.63	1 SINGLE WALL DUCT 1/2" DIAMETER, 5.25" LONG, FLANGE AT BOTH ENDS. STAINLESS STEEL.
P14	DW1812ADKCT	2200				0.015	9.76	1575.63	1 SINGLE WALL DUCT ADJUSTABLE, 1/2" DIAMETER, 11.5" LONG, FLANGE AT ONE END WITH A 18" ADJUSTABLE COLLAR. STAINLESS STEEL.
P15	DW1645ASY	2200				0.0403	7.22	1575.63	1 SINGLE WALL DUCT 45 DEGREE ELBOW, 1/2" DUCT ASSEMBLY.
P16	DC020LT	4125				0.013	31.88	1890.76	1 SINGLE WALL DUCT 3/2" DIAMETER, 31" LONG, FLANGE AT BOTH ENDS. STAINLESS STEEL.
P17	DW2020LT	4125				0.081	19.42	1890.76	1 SINGLE WALL DUCT 3/2" DIAMETER, 20" LONG, FLANGE AT BOTH ENDS. STAINLESS STEEL.
P18	ASSEMBLED WP19	4125				0.058	25.68	1890.76	1 SINGLE WALL DUCT ADJUSTABLE, 20" DIAMETER, 29.5" LONG, FLANGE AT ONE END WITH A 20" ADJUSTABLE COLLAR. STAINLESS STEEL.
P19	ASSEMBLED WP18	4125					9.00	1890.76	1 DUCT CURB TRANSITION 3/4" DOWN TURN, 30.5" CURB TO 20" CURB, 16 GA ALUMINIZED USED ON CHAIRS & NEARUPAIRS, 16 GA ALUMINIZED, TRANSITION COATS 20.5/27.5 DEGREE FOR USE WITH EXHAUST/NO STAND-NON STANDARD PART.
P20	ASSEMBLED WP18	4125				0.017	6.00		
P21	DW1945ASY	3025				0.0473	10.24	1711.80	1 SINGLE WALL DUCT 45 DEGREE ELBOW, 1/2" DUCT ASSEMBLY.
P22	DW1811LT	3025				0.03	6.99	1711.80	1 SINGLE WALL DUCT 1/2" DIAMETER, 11" LONG, FLANGE AT BOTH ENDS. STAINLESS STEEL.
P23	ASSEMBLED WP17	3025				0.1765	27.75	1711.80	1 SINGLE WALL DUCT TEE, 1/2" DUCT ASSEMBLY.
P24	ASSEMBLED WP22 O-S	3025					5.55		1 DUCT ACCESS DOOR WITH HANDLE & GREASE DAM FOR 1/2" DUCT USE 1/4" DOOR. STAINLESS STEEL.
P25	DW1824ADPC	3025				0.056	12.30	1711.80	1 SINGLE WALL DUCT ADAPTER, 1/2" DUCT DIA TO 24" DUCT DIA. ECCENTRIC ASSEMBLY.
P26	DW247EASY	6000				0.574	34.81	1925.77	1 SINGLE WALL DUCT TEE, 1/2" DUCT ASSEMBLY.
P27	DW1824ADPC	3025				0.056	12.30	1711.80	1 SINGLE WALL DUCT ADAPTER, 1/2" DUCT DIA TO 24" DUCT DIA. ECCENTRIC ASSEMBLY.
P28	DW1824LT	3025				0.023	17.49	1711.80	1 SINGLE WALL DUCT 1/2" DIAMETER, 20" LONG, FLANGE AT BOTH ENDS. STAINLESS STEEL.
P29	DW1818ADKCT	3025				0.027	14.83	1711.80	1 SINGLE WALL DUCT ADJUSTABLE, 1/2" DIAMETER, 17.5" LONG, FLANGE AT ONE END WITH A 18" ADJUSTABLE COLLAR. STAINLESS STEEL.
P30	DW185UBRAY						3.38		1 DUCT SUPPORT BRACKET KIT, 1/2" DUCT, USED FOR HANGING DUCT 1/2 GA STEEL, CLEAR ZINC COATING - 2 INGS. & BRACKETS, A HARDWARE BAG.
P31	DW185UBRAY						3.38		1 DUCT SUPPORT BRACKET KIT, 1/2" DUCT, USED FOR HANGING DUCT 1/2 GA STEEL, CLEAR ZINC COATING - 2 INGS. & BRACKETS, A HARDWARE BAG.
P32	DW1860ASY	3025				0.1765	15.59	1711.80	1 SINGLE WALL DUCT 90 DEGREE ELBOW,



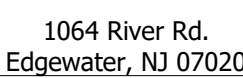
**THESE DETAILS ARE PROVIDED FOR
DIAGRAMMATIC PURPOSES ONLY. REFER TO
THE MANUFACTURES SHOP DRAWINGS, DETAILS
AND INSTALLATION INSTRUCTIONS FOR FINAL
REQUIREMENTS.**

<p>Lorenzo Foods TETERBORO, NJ, 07608</p>	<p>8/24/2021</p>	<p>4967555</p>	<p>ZDK</p>	<p>3/4" = 1'-0"</p>	<p>MASTER DRAWING</p>	<p>11</p>	<p>CAPTIVE North New Jersey Mechanical</p>	<p>Summit, NJ PHONE: (201) 308-6847 FAX: (919) 516-8752 EMAIL: reg13@captiveme.com</p>	 	<p>△</p>	<p>△</p>	<p>△</p>	<p>△</p>	<p>△</p>	<p>△</p>
										<p>△</p>	<p>△</p>	<p>△</p>	<p>△</p>	<p>△</p>	<p>△</p>

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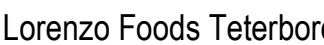
1. ALL EXISTING HVAC SYSTEMS INCLUDING BUT NOT LIMITED TO HVAC ROOF TOP EQUIPMENT, DUCTWORK, AIR DISTRIBUTION SYSTEMS, CONDENSER PUMPS, COILS, WIRING ETC. TO REMAIN UNLESS SHOWN OR NOTED OTHERWISE.
2. DEMOLITION WORK SHALL BE COORDINATED WITH THE ARCHITECT AND OWNERS REPRESENTATIVE AND ALSO MUST BE COORDINATED WITH ALL ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND STRUCTURAL SYSTEMS.
3. EXISTING CONDITIONS, EQUIPMENT, MATERIALS & SIZES ARE SHOWN FOR REFERENCE ONLY. VERIFY EXISTING CONDITIONS & BRING TO THE ATTENTION OF THE ARCHITECT & OWNERS REPRESENTATIVE TO THE ENGINEER'S ATTENTION PRIOR TO BID SUBMISSION.
4. HVAC CONTRACTOR MUST VISIT THE SITE TO CAREFULLY EXAMINE AND FAMILIARIZE HIMSELF WITH THE EXISTING CONDITIONS PRIOR TO BIDDING. SUBMISSION OF A PROPOSAL WILL BE CONSIDERED AS EVIDENCE THAT SUCH AN EXAMINATION HAS BEEN PERFORMED. CLAIMS FOR EXTRA LABOR OR MATERIALS REQUIRED DUE TO DIFFICULTIES ENCOUNTERED WILL NOT BE RECOGNIZED.
5. G.C. TO PATCH ALL UNUSED ROOF, WALL OR FLOOR OPENINGS TO MATCH EXISTING.
6. DISPOSE OF ALL MATERIALS AS DIRECTED BY OWNERS REPRESENTATIVE.



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Tinton Falls, NJ 07724



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TETERBORO, NJ, 0760

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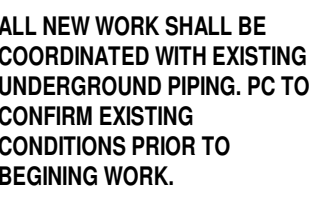
CONSTRUCTION

BRIAN D. TANNENHAUS

NJ PROFESSIONAL ENGINEER
NO. GE 45801
DATE: 09/24/2021

drawing name:	
HVAC DEMO PLAN	
scale:	As indicated
release date:	
drawing date:	09/24/2021
drawing by:	ZW
approved by:	KF
project no.:	2102
drawing no.:	
MD-100.00	
DCB (BARCODE):	
Total	

P-101.00

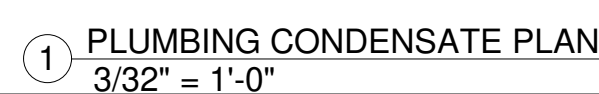


2. EXISTING SANITARY LOCATION IS APPROXIMATE. FIELD VERIFY ALL FINAL LOCATIONS PRIOR TO BIDDING.
3. UNLESS OTHERWISE NOTED, PROVIDE NEW CONDENSATE DRAIN LINES TO EXISTING HUB DRAINS FOR ALL NEW AND RELOCATED CASES.
4. REFER TO RISER DIAGRAM FOR ADDITIONAL INFORMATION.
5. SEE PLUMBING SCHEDULES FOR FIXTURE PIPE CONNECTION SIZES.

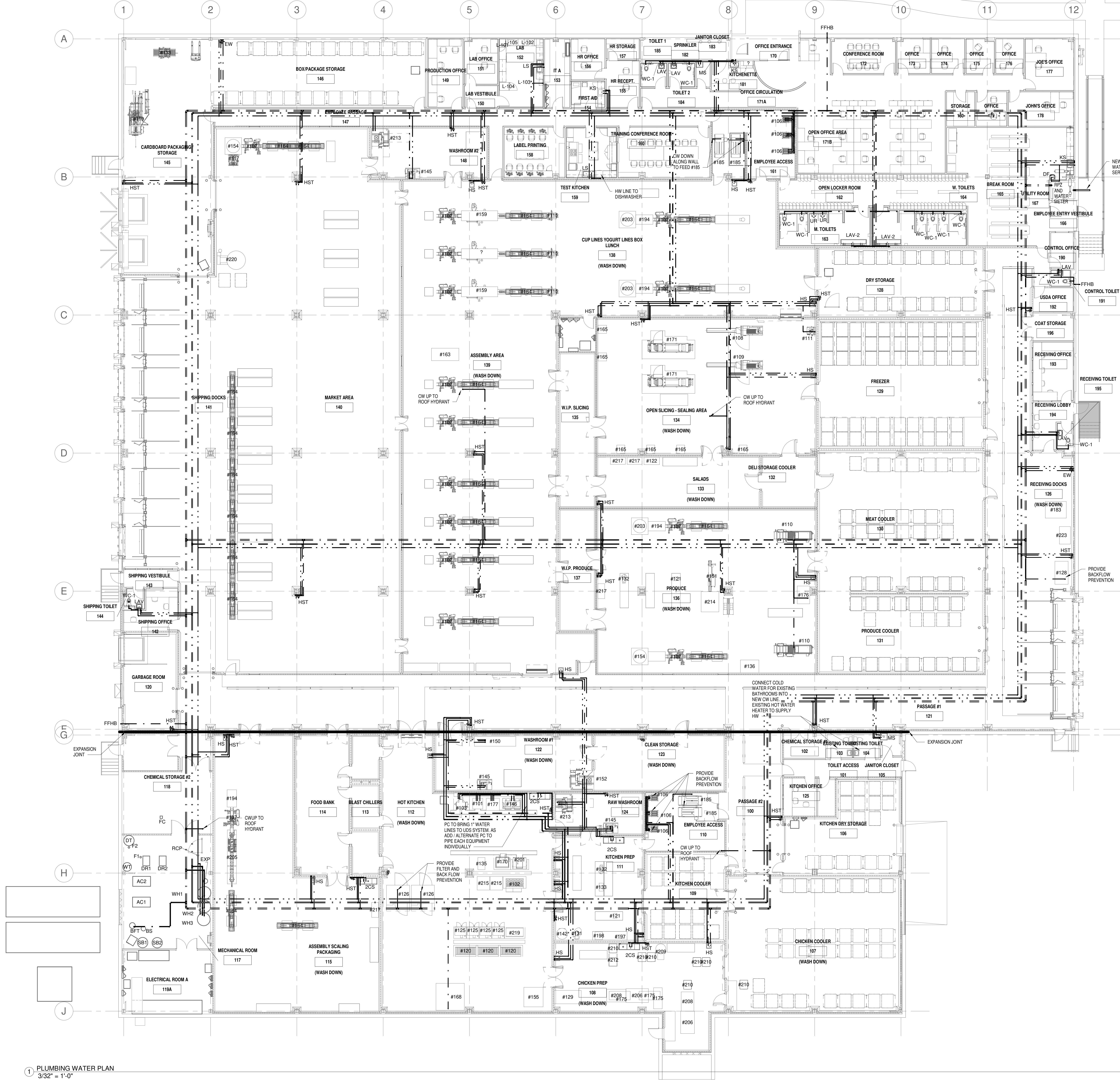
9. CONDENSATE PIPING PROVIDED BY PLUMBING CONTRACTOR. REFER TO REFRIGERATION PLANS FOR INFORMATION.

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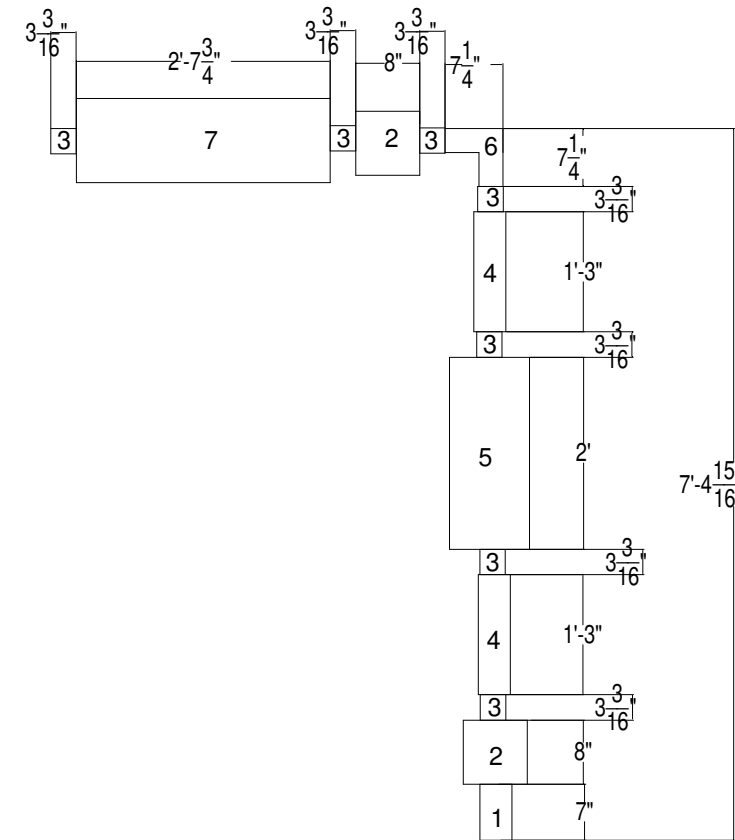


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WATER GENERAL NOTES:

1. UNLESS OTHERWISE NOTED, ALL BRANCH PIPING SHALL HAVE A SHUTOFF VALVE INSTALLED WHERE THE BRANCH TAKE OFF BEGINS FROM THE MAIN.
2. UNLESS OTHERWISE NOTED, ALL PLUMBING FIXTURES SHALL HAVE SHUT OFF VALVES AT THE FIXTURE.
3. REFER TO RISER DIAGRAM FOR ADDITIONAL INFORMATION.
4. REFER TO PLUMBING SCHEDULES FOR FIXTURE PIPE CONNECTION SIZES.
5. REFER TO DETAILS FOR SPECIFIC INSTALLATION REQUIREMENTS.
6. PROVIDE EXPANSION LOOP AT ALL EXPANSION JOINTS.



1. AUTOMATIC CONTROL VALVE - WATTS LFM115-74 ANGLE FLANGED 3"
 2. OS&Y VALVE - KENNEDY VALVE OS&Y FLANGED 3"
 3. VEGA PROGRESS FLANGE - 0699.5 SIZE 3
 4. 15" FLANGED SPOOL THREADED DUCTILE IRON
 5. WATER METER 3" FROM SUEZ WATER NEW JERSEY
 6. VEGA PROGRESS 90° STREET ELBOW 3X3
 7. BACKFLOW PREVENTOR - WATTS 987 OS&Y 3"
- **TRUE OVERALL LENGTH OF ENTIRE ASSEMBLY WILL BE LARGER AS GASKETS HAVE NOT BEEN ACCOUNTED FOR.

WATER METER - RPZ - ACCESSORY SCHEDULE
SCALE: NONE

GENERAL CONDITIONS NOTE:
THIS DRAWING AND THE DESIGN DESCRIBED HEREIN SHALL BE THE PROPERTY OF **BD ENGINEERING**. IT IS TO BE USED ONLY FOR THE PROJECT AND SITE SPECIFICALLY IDENTIFIED HEREON. ANY REUSE OR MODIFICATION OF THIS DRAWING WITHOUT THE WRITTEN CONSENT OF **BD ENGINEERING** IS STRICTLY PROHIBITED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPROPRIATE AGENCIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY MATERIALS AND EQUIPMENT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY LABOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY SUBCONTRACTORS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY SUPPLIERS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY SERVICES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY UTILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY TRANSPORTATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY COMMUNICATIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY UTILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY TRANSPORTATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY COMMUNICATIONS.

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730 River Road
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BD ENGINEERING, LLC.
30 Park Road, Suite 4
Tinton Falls, NJ 07724

LD ENGINEERING

lorenzofood group

Lorenzo Foods Teterboro
25 CENTRAL AVE
TETERBORO, NJ, 07608

ISSUED FOR:
REVIEW
PLANNING BOARD
BUILDING DEPT
BID
CONSTRUCTION

BRIAN D. TANNENHAUS
NJ PROFESSIONAL ENGINEER
NO. GE 45801
DATE: 09/24/2021

drawing name:
PLUMBING WATER PLAN

scale:
As indicated

release date:
09/24/2021

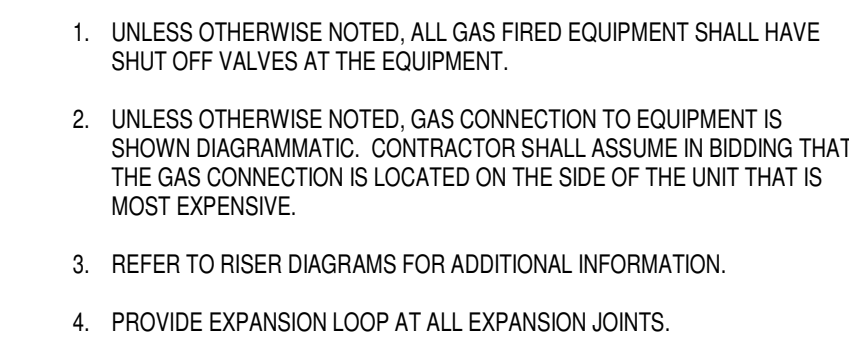
drawn by:
RL

approved by:
KF

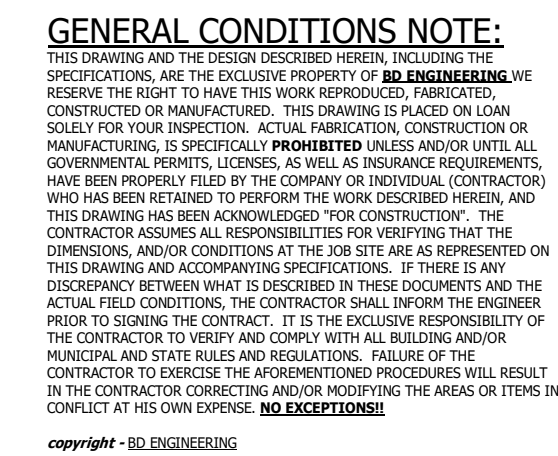
project no.:
2102

P-400.00

DCB BARCODE:
Total



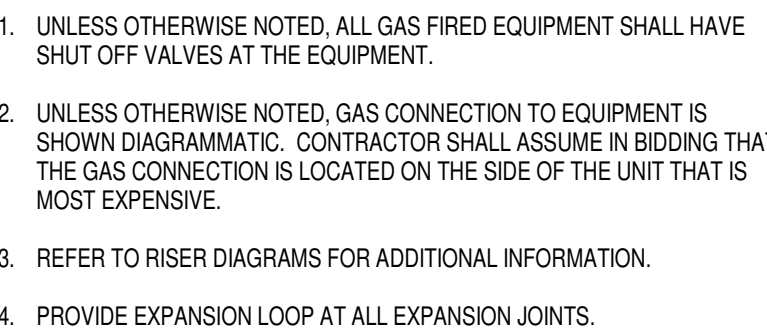
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ISSUED FOR	
REVIEW	1
PLANNING BOARD	
BUILDING DEPT	
REC	
CONSTRUCTION	
BRIAN D. TANNENHAUS	
NJ PROFESSIONAL ENGINEER	
NO. GE 45801	
DATE: 09/24/2021	
DRAWING NAME	
PLUMBING STEAM PLAN	
SCALE	3/32" = 1'-0"
RELEASE DATE	
DRAWING DATE	09/24/2021
DRAWN BY	RL
APPROVED BY	KF
PROJECT NO.	2102
DRAWING NO.	
P-700.00	
DCB BARCODE	
Total	





1. UNLESS OTHERWISE NOTED, ALL SINKS, FLOOR DRAINS, FLOOR SINKS AND/OR STANDPIPES SHALL BE TRAPPED JUST BELOW THE FLOOR FINISH.
2. EXISTING SANITARY LOCATION IS APPROXIMATE. FIELD VERIFY ALL FINAL LOCATIONS PRIOR TO BIDDING.
3. UNLESS OTHERWISE NOTED, PROVIDE NEW CONDENSATE DRAIN LINES TO EXISTING HUB DRAINS FOR ALL NEW AND RELOCATED CASES.
4. REFER TO RISER DIAGRAM FOR ADDITIONAL INFORMATION.
5. SEE PLUMBING SCHEDULES FOR FIXTURE PIPE CONNECTION SIZES.
6. CONDENSATE PIPING PROVIDED BY PLUMBING CONTRACTOR. REFER TO REFRIGERATION PLANS FOR INFORMATION.

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BD ENGINEERING, LLC.
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CONSTRUCTION

BRIAN D. TANNENHAUS

NJ PROFESSIONAL ENGINEER
NO. GE 45801
DATE: 09/24/2021

PLUMBING SANITARY RISER

scale: $12'' = 1'-0''$

revisions date:

drawn by: RL

project no.:	
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Drawing no.:

DCB BARCODE:

[illegible]

	Total
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1. UNLESS OTHERWISE NOTED, ALL BRANCH PIPING SHALL HAVE A SHUTOFF VALVE INSTALLED WHERE THE BRANCH TAKE OFF BEGINS FROM THE MAIN.
2. UNLESS OTHERWISE NOTED, ALL PLUMBING FIXTURES SHALL HAVE SHUT OFF VALVES AT THE FIXTURE.
3. REFER TO RISER DIAGRAM FOR ADDITIONAL INFORMATION.
4. REFER TO PLUMBING SCHEDULES FOR FIXTURE PIPE CONNECTION SIZES.
5. REFER TO DETAILS FOR SPECIFIC INSTALLATION REQUIREMENTS
6. PROVIDE EXPANSION LOOP AT ALL EXPANSION JOINTS



BRIAN D. TANNENHAUS

drawing name:

PLUMBING WATER RISER

scale:

reissese Caffè.

drawn by:

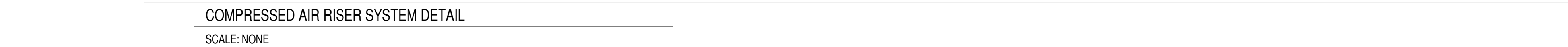
approved by: KF

drawing no.: 2102

P-901.00

DOB BARCODE:

Total

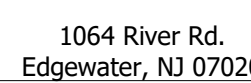


1. FINAL LOCATIONS OF AIR DROPS TO BE FIELD VERIFIED WITH OWNER ONCE EQUIPMENT IS PUT IN PLACE. CONTRACTOR SHALL ASSUME IN THEIR BIDDING THE FARTHEST LENGTH OF COMPRESSED AIR DROP. ALL COMPRESSED AIR DROPS TO BE A MINIMUM OF 3/4" CONFIRM WITH OWNER.
2. PROVIDE EXPANSION LOOP AT ALL EXPANSION JOINTS.

2. PROVIDE EXPANSION LOOP AT ALL EXPANSION JOINTS

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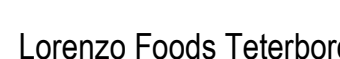


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CONSTRUCTION

BRIAN D. TANNENHAUS

BRIAN D. TANNENHAUS

NJ PROFESSIONAL ENGINEER
NO. GE 45801
DATE: 09/24/2021

drawing name:	
PLUMBING COMPRESSED AIR RISER	
scale:	
release date:	
drawing date:	09/24/2021
drawn by:	RL
approved by:	KF
project no.:	2102
drawing no.:	
P-903.00	
DOB BARCODE:	
Total	

1. MATERIAL: STAINLESS STEEL T304/T316
2. SPECIFYING ENGINEER IS RESPONSIBLE FOR CONCRETE ENCASEMENT AND REINFORCING BASED UPON APPLICATION AND LOCAL CODES.
3. REFER TO <https://info.slottedrainsystems.com/installresources> FOR INSTALLATION INSTRUCTIONS.

Diagrammatic layout of the manufacturing facility showing four production runs (RUN-1, RUN-2, RUN-3, RUN-4) and a central PASSAGE #1. The layout includes various equipment like conveyors, storage tanks, and processing units. A note states: "THESE DETAILS ARE PROVIDED FOR DIAGRAMMATIC PURPOSES ONLY. REFER TO THE MANUFACTURES SHOP DRAWINGS, DETAILS AND INSTALLATION INSTRUCTIONS FOR FINAL REQUIREMENTS."

CUSTOMER APPROVAL

☐ APPROVED AS IS


☐ APPROVED WITH REVISIONS NOTED

☐ REVISE AS NOTED AND RESUBMIT

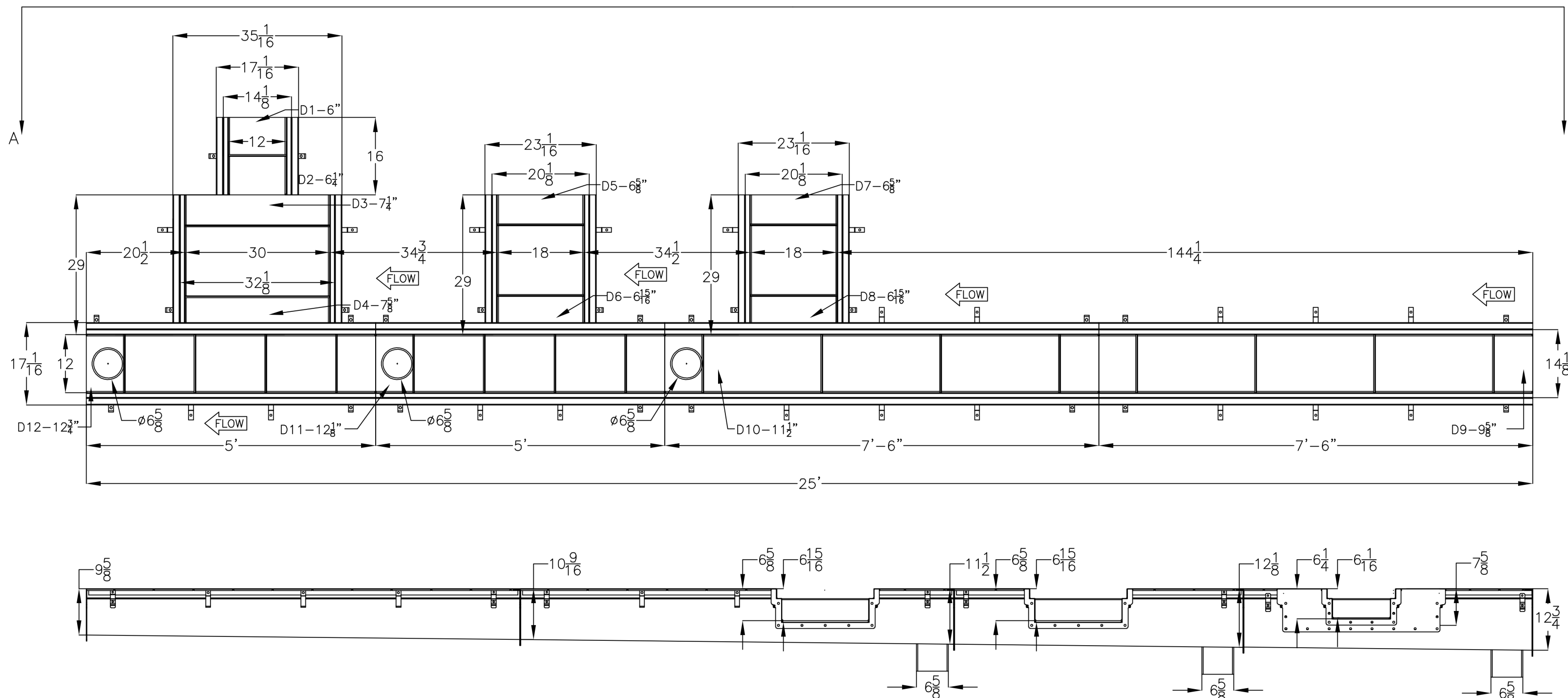
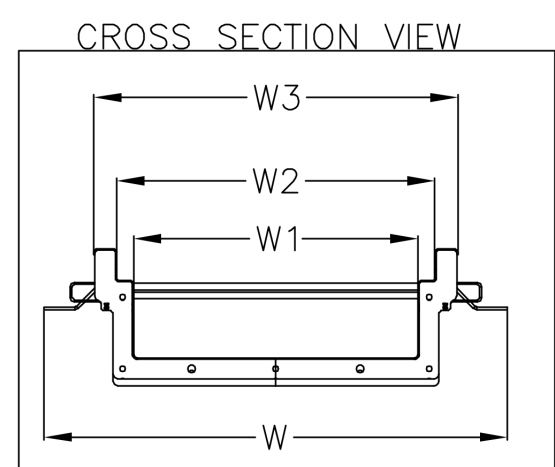
PRINT NAME _____

SIGNATURE _____ DATE _____

NOTE: MANUFACTURING WILL COMMENCE UPON RECEIPT OF THE SIGNED APPROVAL DRAWING.

TOLERANCES UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS $\pm .063"$ ALL DIMENSIONS ARE IN INCHES					
DRAWN BY DK	CHECKED BY DK	DATE 08/20/2021	CUSTOMER/PROJECT LORENZO FOODS		
ALL DRAWINGS ARE THE EXCLUSIVE PROPERTY OF SLOT DRAIN SYSTEMS, ANY REPRODUCTION IN PART OR IN WHOLE IS PROHIBITED WITHOUT PROPER CONSENT.			DESCRIPTION FSFSLT TRENCH & 1000DL SLOT DRAIN-KEYPLAN ORDER NO. DWG NO. SIZE A SCALE SHEET ZL0RENZDF-KEYPLAN A NTS 1 OF 5		

1. MATERIAL: STAINLESS STEEL T304/T316
2. SPECIFYING ENGINEER IS RESPONSIBLE FOR CONCRETE ENCASEMENT AND REINFORCING BASED UPON APPLICATION AND LOCAL CODES.
3. REFER TO <https://info.slotdrainsystems.com/installresources> FOR INSTALLATION INSTRUCTIONS.



SECTION A-A

FLAT BOTTOM TRENCH DRAIN RUN-1 (HOT KITCHEN)
TOP & ELEVATION VIEW

CUSTOMER APPROVAL

☐ APPROVED AS IS


☐ APPROVED WITH REVISIONS NOTED

☐ REVISE AS NOTED AND RESUBMIT

PRINT NAME _____

SIGNATURE _____ DATE _____

NOTE: MANUFACTURING WILL COMMENCE UPON RECEIPT OF THE SIGNED APPROVAL DRAWING.

TOLERANCES UNLESS OTHERWISE SPECIFIED			 GLOBAL DRAIN TECHNOLOGIES		
ALL DIMENSIONS +/- .001" ALL DIMENSIONS ARE IN INCHES					
DRAN BY DK	CHECKED BY DK	DATE 08/20/2021	CUSTOMER/PROJECT LORENZO FOODS		
ALL DRAWINGS ARE THE EXCLUSIVE PROPERTY OF GLOBAL DRAIN SYSTEMS. NO REPRODUCTION IN PART OR IN WHOLE IS PERMITTED WITHOUT PROPER CONSENT.			DESCRIPTION FSFSLAT TRENCH DRAIN-RUN-1 (HOT KITCHEN)		REV. 1
			ORDER NO.	DWG NO. DRENZFLOF-TF-1-H-K	SIZE A

1. MATERIAL: STAINLESS STEEL T304/T316
2. SPECIFYING ENGINEER IS RESPONSIBLE FOR CONCRETE ENCASEMENT AND REINFORCING BASED UPON APPLICATION AND LOCAL CODES.
3. REFER TO <https://info.slotdrainsystems.com/installresources> FOR INSTALLATION INSTRUCTIONS.

Technical drawing of a 25-foot long, 17-inch high rectangular duct assembly. The drawing includes a top view, a side elevation, and a cross-section.

Top View: Shows the duct's footprint. The total length is 25 feet. The total height is 17 inches. The duct is divided into sections with lengths of 5 feet, 7 feet 6 inches, 5 feet, 7 feet 6 inches, and 5 feet. The duct has a total width of 17 inches. It features two circular access ports, each 10 inches in diameter, and two rectangular access ports, each 18 inches wide and 20 inches high. The duct is supported by a base with a total width of 17 inches. The drawing is labeled with dimensions in feet and inches, and includes a "FLOW" arrow indicating the direction of flow.

Side Elevation: Shows the duct's profile. The total height is 17 inches. The total width is 17 inches. The duct is supported by a base with a total width of 17 inches. The drawing is labeled with dimensions in feet and inches, and includes a "FLOW" arrow indicating the direction of flow.

Cross-Section: Shows the duct's internal structure. The total width is 17 inches. The total height is 17 inches. The duct is supported by a base with a total width of 17 inches. The drawing is labeled with dimensions in feet and inches, and includes a "FLOW" arrow indicating the direction of flow.

FLAT BOTTOM TRENCH DRAIN RUN-2 (HOT KITCHEN)
TOP & ELEVATION VIEW

CUSTOMER APPROVAL

☐ APPROVED AS IS


☐ APPROVED WITH REVISIONS NOTED

☐ REVISE AS NOTED AND RESUBMIT

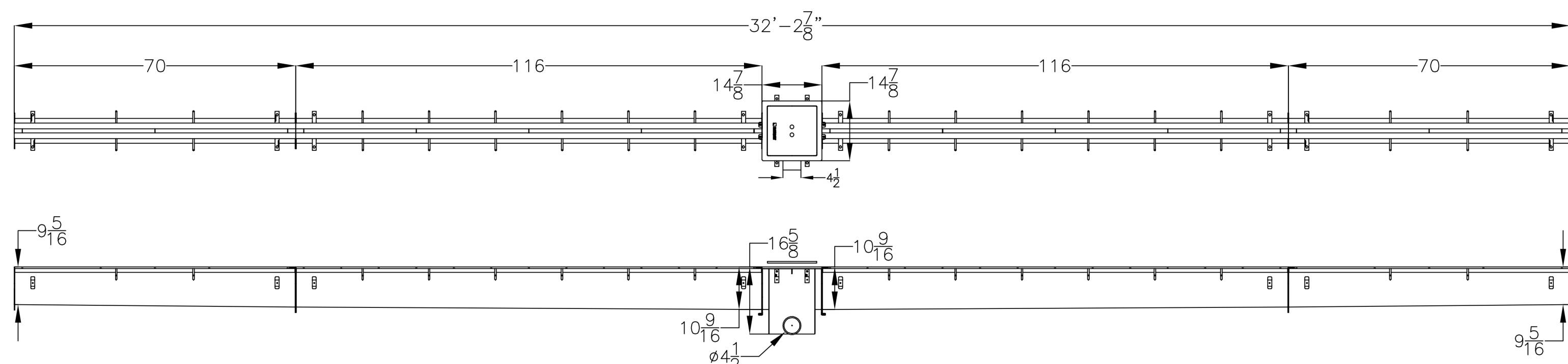
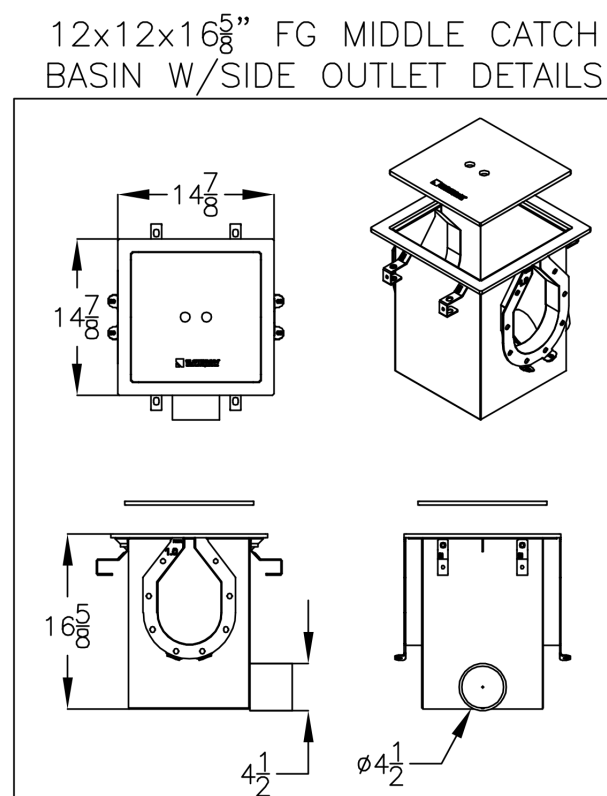
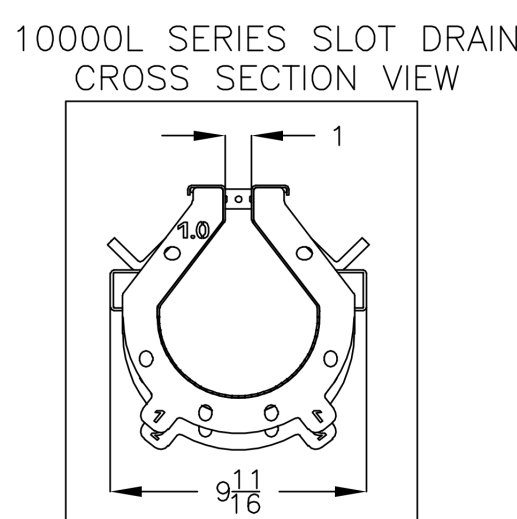
PRINT NAME _____

SIGNATURE _____ DATE _____

NOTE: MANUFACTURING WILL COMMENCE UPON RECEIPT OF THE SIGNED APPROVAL DRAWING.


TOLERANCES UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS $\pm .1"$ ALL DIMENSIONS ARE IN INCHES					
OWN BY	CHECKED BY	DATE	CUSTOMER/PROJECT		
DK	DK	08/20/2021	LORENZO FOODS		
ALL DRAWINGS ARE THE EXCLUSIVE PROPERTY OF SLOTT DRAIN SYSTEMS. ANY REPRODUCTION IN PART OR IN WHOLE IS PROHIBITED WITHOUT PROPER PERMISSION.			DESCRIPTION		REV.
			FSFLAT TRENCH DRAIN—RUN-2 (HOT KITCHEN)		1
ORDER NO.	DWG NO.	SIZE	SCALE	SHEET	
	ZLORENZOF-TF-2-HK	A	N	3	OF 5

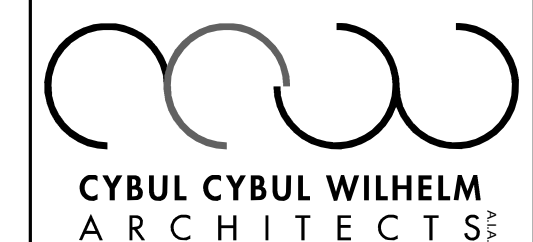
1. MATERIAL: STAINLESS STEEL T304/T316
2. SPECIFYING ENGINEER IS RESPONSIBLE FOR CONCRETE ENCASEMENT AND REINFORCING BASED UPON APPLICATION AND LOCAL CODES.
3. REFER TO <https://info.slottedrainsystems.com/installresources> FOR INSTALLATION INSTRUCTIONS.



10000L SERIES SLOT DRAIN RUN-3 (SALADS)
TOP & ELEVATION VIEW

CUSTOMER APPROVAL	
<input type="checkbox"/>	APPROVED AS IS
<input type="checkbox"/>	APPROVED WITH REVISIONS NOTED
<input type="checkbox"/>	REVISE AS NOTED AND RESUBMIT
PRINT NAME _____	
SIGNATURE _____	DATE _____
NOTE: MANUFACTURING WILL COMMENCE UPON RECEIPT OF THE SIGNED APPROVAL DRAWING.	

TOLERANCES UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE $\pm .1"$ ALL DIMENSIONS ARE IN INCHES						
DRAWN BY DK	CHECKED BY DK	DATE 08/20/2021	CUSTOMER/PROJECT LORENZO FOODS			
ALL DRAWINGS ARE THE EXCLUSIVE PROPERTY OF SLOT DRAIN SYSTEMS. ANY REPRODUCTION IN WHOLE OR IN WHOLE IS PROHIBITED WITHOUT PROPER CONSENT.			DESCRIPTION FS10000L SERIES SLOT DRAIN-RUN-3 (SALADS)			REV. 1
			ORDER NO. L200ZOF-S0-3-SALADS	DWG NO.	SIZE A	SHEET 4 OF 5

[illegible]

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25 CENTRAL AVE
TETERBORO, NJ, 0760

DOB STAMP:

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REVIEW
PLANNING BOARD
BUILDING DEPT
BID
CONSTRUCTION

BRIAN D. TANNENHAU

NJ PROFESSIONAL ENGINEER
NO. GE 45801
DATE: 09/24/2021

PATENT:

PLUMBING DETAILS

Source:

09/24/2021

by: _____

2102

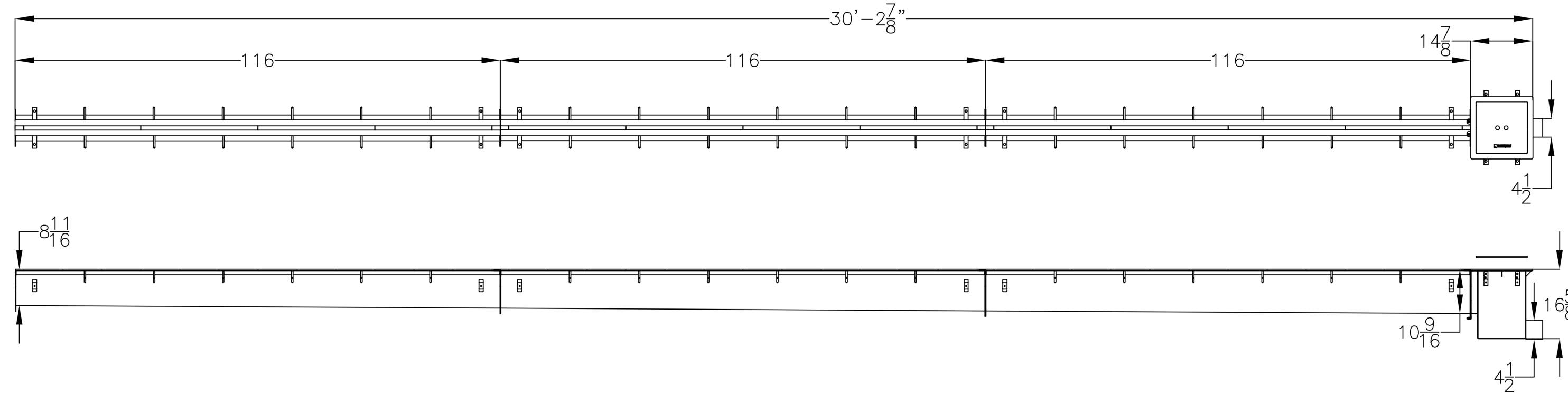
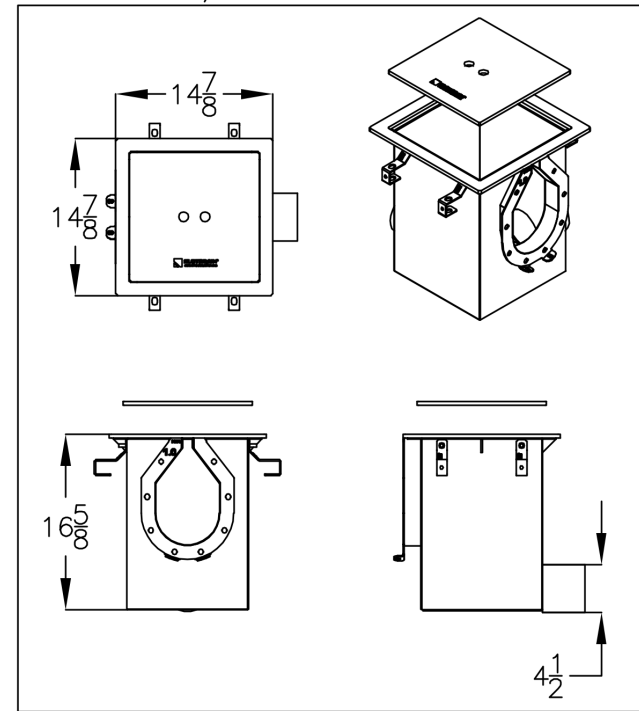
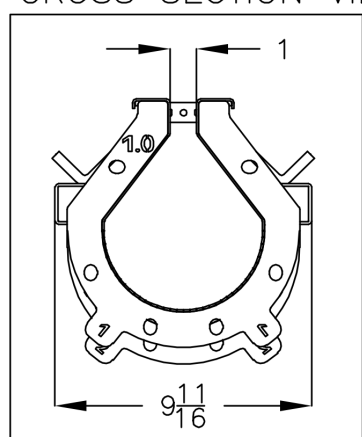
P-1004 00

RCODE:

Total

1. MATERIAL: STAINLESS STEEL T304/T316
2. SPECIFYING ENGINEER IS RESPONSIBLE FOR CONCRETE ENCASEMENT AND REINFORCING BASED UPON APPLICATION AND LOCAL CODES.
3. REFER TO <https://info.slottedrainsystems.com/installresources> FOR INSTALLATION INSTRUCTIONS.

12x12x16⁵/₈" FG END CATCH
BASIN W/END OUTLET DETAILS



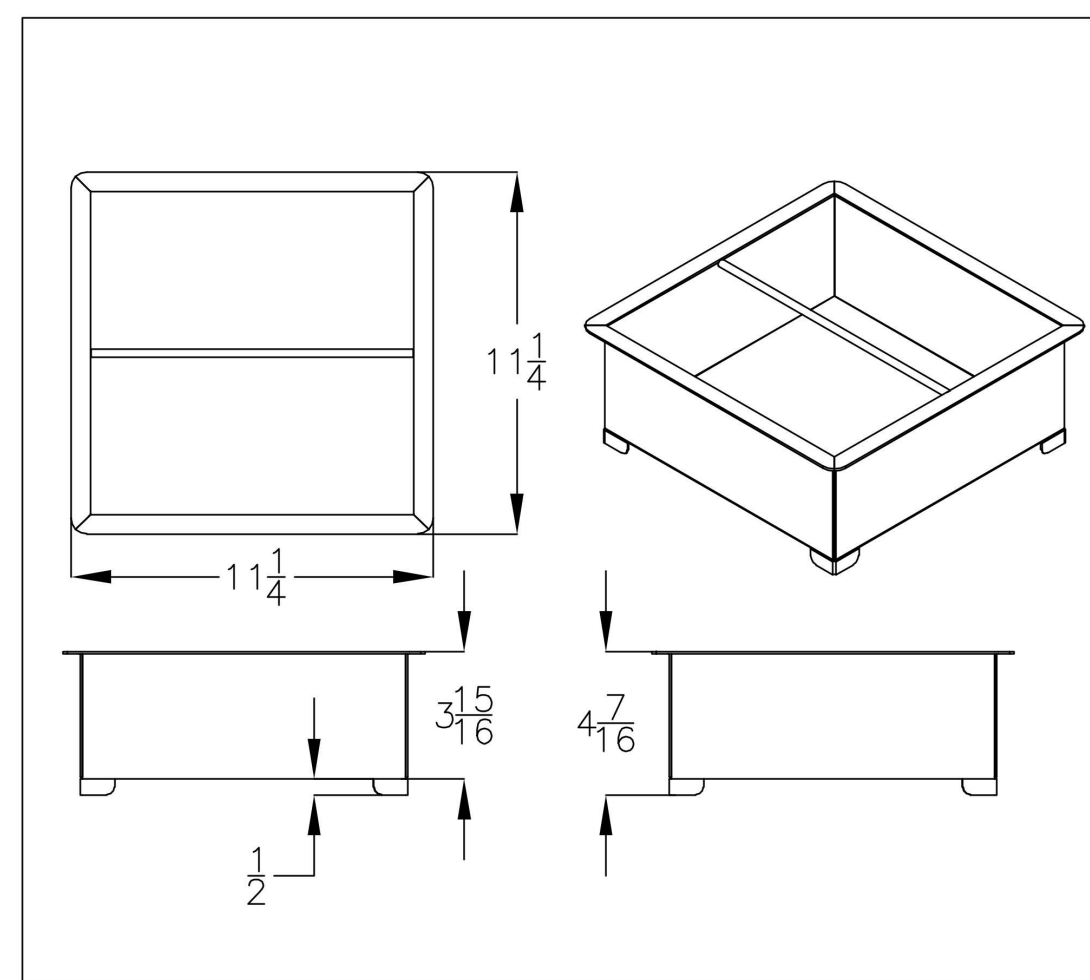
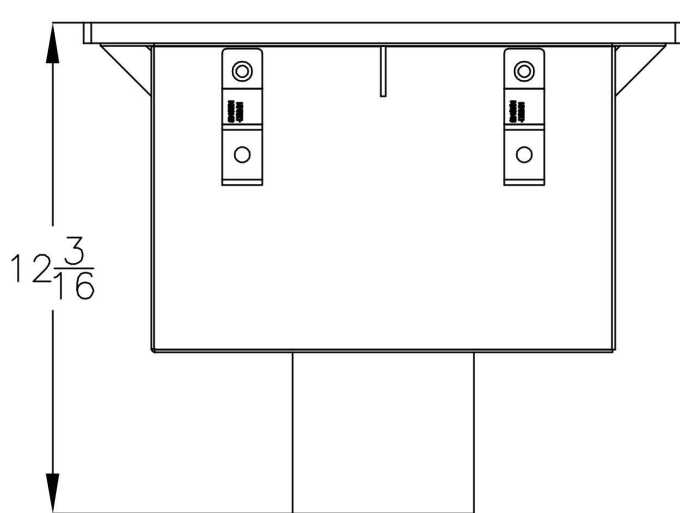
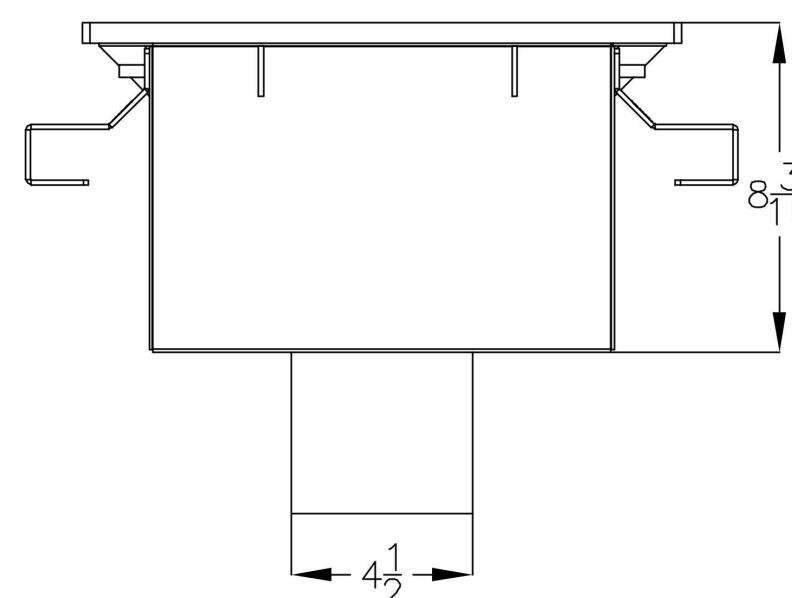
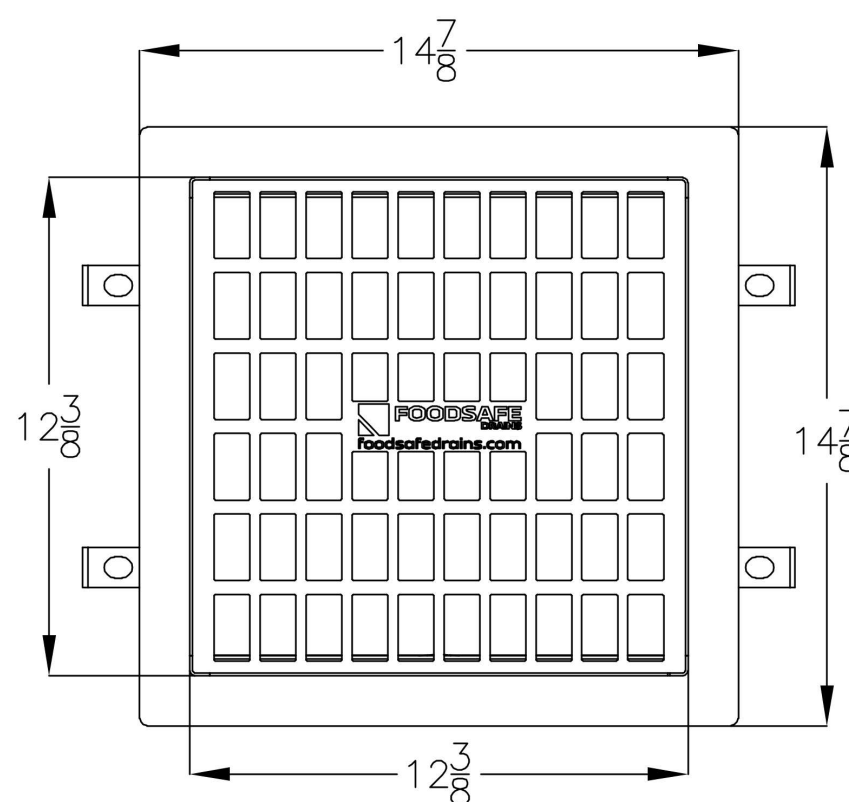
10000L SERIES SLOT DRAIN RUN-4
(CHICKEN PREP) TOP & ELEVATION VIEW

TOLERANCES UNLESS OTHERWISE SPECIFIED						
ALL DIMENSIONS ARE +/- .001 ALL DIMENSIONS ARE IN INCHES						
DRAWN BY	CHECKED BY	DATE	CUSTOMER/PROJECT			
DK	DK	08/20/2021	LORENZO FOODS			
ALL DRAWINGS ARE THE EXCLUSIVE PROPERTY OF SLOT DRAIN SYSTEMS. ANY REPRODUCTION IN WHOLE OR IN PART IS PROHIBITED WITHOUT PROPER CONSENT.			DESCRIPTION FS10000L SERIES SLOT DRAIN-RUN-4 (CHICKEN PREP)			
			REV	1		
ORDER NO.			DWG NO.	SIZE	A	SHEET
			ZLORENZF-50-4-CHICKENPR	N	SCALE	5 OF 5

**THESE DETAILS ARE PROVIDED FOR
DIAGRAMMATIC PURPOSES ONLY. REFER TO
THE MANUFACTURES SHOP DRAWINGS, DETAILS
AND INSTALLATION INSTRUCTIONS FOR FINAL
REQUIREMENTS.**

1. MATERIAL: STAINLESS STEEL T304/T316
2. SPECIFYING ENGINEER IS RESPONSIBLE FOR CONCRETE ENCASEMENT AND REINFORCING BASED UPON APPLICATION AND LOCAL CODES.
3. REFER TO <https://info.slotdrainsystems.com/installresources> FOR INSTALLATION INSTRUCTIONS.

A technical line drawing of a square electrical outlet box. The box is shown from a three-quarter perspective. It has a square cover plate with a grid of small rectangular openings. A single switch is mounted on the cover plate. Two electrical conduits are connected to the side of the box, each with a mounting bracket. The box is mounted on a circular base.



12x12" STRAINER BASKET DETAILS

12x12x8" SQUARE AREA DRAIN/FLOOR SINK DETAILS

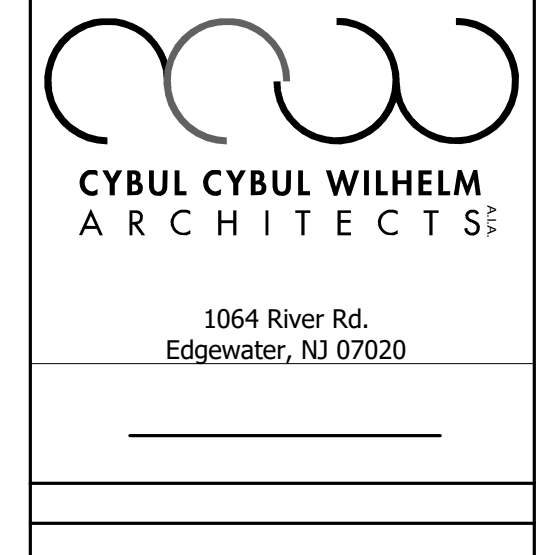
TOLERANCES UNLESS OTHERWISE SPECIFIED		 GLOBAL DRAIN TECHNOLOGIES	
ALL DIMENSIONS ARE +/- 1/8" ALL DIMENSIONS ARE IN INCHES			
DRAWN BY	CHECKED BY	DATE	CUSTOMER/PROJECT
DK	DK	08/20/2021	LORENZO FOODS
ALL DRAWINGS ARE THE EXCLUSIVE PROPERTY OF GLOBAL DRAIN SYSTEMS. ANY REPRODUCTION IN PART OR IN WHOLE IS PROHIBITED WITHOUT PROPER CONSENT.			DESCRIPTION 12x12x8 SQ AD/FLOOR SINK W/PERF GRATE LAYOUT ORDER NO. DWG NO. SCALE SHEET ZLORENZF-12x12x8AD/FS A NTS 1 OF

GENERAL CONDITIONS NOTE:

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PLANNING BOARD

BUILDING DEPT

BID

CONSTRUCTION

NO. GE 45801

DATE: 09/24/2021

2024.09.24

BRIAN D. TANNENHAUS

2024.09.24

drawing name:	
PLUMBING DETAILS	
scale:	
12" = 1'-0"	
release date:	
drawing date:	
09/24/2021	
drawn by:	
RL	
approved by:	
KF	
project no.:	
2102	
drawing no.:	
P-1005.00	
DOB BARCODE:	
Total	

FOR ALL PROCESS EQUIPMENT REFER TO
THE ARCHITECTURAL SCHEDULES ON THE
ARCHITECTS DRAWINGS

PLUMBING FIXTURE SCHEDULE												
TAG	FIXTURE	MANUFACTURER	MODEL	MISC. MATERIAL		FIXTURE ACCESSORIES	PLUMBING CONNECTION SIZES				NOTES	
				MOUNT TYPE	MATERIAL/COLOR		CW	HW	SAN	VENT		
CS	2 COMPARTMENT SINK	ELKAY	WISF8320R2	DROP IN	STAINLESS STEEL	FAUCET LK434F14LC	1/2"	1/2"	3/4"	1-1/2"		
OF	DRINKING FOUNTAIN	ELKAY	LZS6S	WALL	STAINLESS STEEL		1/2"	-	1-1/2"	1-1/2"	115 V	
FD	FLOOR CLEANOUT	FOOD SAFE DRAINS	FSPC0-84	FLOOR	316 STAINLESS STEEL	PTPRAP-54 316 TRAP	-	-	4"	-	PROVIDE FORLIFT GRADE. MOUNT FLUSH TO TOP OF FLOOR.	
FD-1	FLOOR DRAIN	FOOD SAFE DRAINS	FD-100A-RCO	FLOOR	316 STAINLESS STEEL	PTPRAP-54 316 TRAP. MAGNETIC LOCK	-	-	4"	2-1/2"	PROVIDE WITH FORKLIFT DUTY TOPWITH MAGNETIC LOCK AND REMOVABLE SEDIMENT BASKET	
FD-2	FLOOR DRAIN	WATTS	FD-100A	FLOOR	EPOXY COATED CAST IRON WITH STAINLESS TOP		-	-	-	2-1/2"	HEAVY DUTY	
FD-3	FLOOR DRAIN	WATTS	FD-100-A	FLOOR	EPOXY COATED CAST IRON		-	-	2"	1-1/2"		
FHB	HOSE BIB	JR SMITH	5519	WALL	BRONZE, STAINLESS	STAINLESS STEEL RECESSED BOX WITH LOCK KEY	3/4"	-	-	-	INTEGRAL VACUUM BREAKER AND DUAL CHECK VALVE W/ 1" GARDEN HOSE THREAD	
FS	FOOD SAFE DRAINS	FOOD SAFE DRAINS	12x12x8" FLOOR SINK	FLOOR	316 STAINLESS STEEL	PTPRAP-54 316 TRAP. SQ AD/FLOOR SINK W/ PERF GRADE LAYOUT	-	-	4"	2"	12X12X8" DEEP. PROVIDE USDA COMPLIANT SS DOME BOTTOM, 1/2 GRATE, SEDIMENT BUCKET. ZLORENZOF-12x12x84DFS	
GI	GREASE INTERCEPTOR	HIGHLAND TANK	FG-4000	RECESSED	CARBON STEEL WITH HI-TEMP COATING	MANHOLE EXTENSIONS AS REQUIRED	-	-	4"	2"	PROVIDE CHEMLINE4000 EPOXY INTERIOR COATING. SUBSTITUTIONS ARE NOT ALLOWED AS HIGHLAND TANK IS BASIS OF DESIGN AND HAS PERFORMED THE BUOYANCY CALCULATIONS	
HS	KNEE VALVE SINK	ADVANCED TABCO	7-IPS-30	WALL	STAINLESS STEEL		1/2"	1/2"	1-1/2"	1-1/2"		
HST	HOSE STATION	ARMSTRONG	3032	WALL			3/4"	3/4"	-	-		
KS	KITCHEN SINK	KOHLER	K-3348-3	COUNTER	STAINLESS STEEL	FAUCET 15171-F	1/2"	1/2"	1-1/2"	1-1/2"		
LA	BATHROOM SINK	KOHLER	K-2005	WALL	WHITE/ VITREOUS CHINA	BACKSPLASH, FAUCET 15182-4NDRA	1/2"	1/2"	1-1/2"	1-1/2"		
LA-V	BATHROOM SINK	BRADLEY	LV033	WALL	QUARTZ	FAUCET SS5-3700	1/2"	1/2"	1-1/2"	1-1/2"	BATTERY POWERED FAUCET	
LS	LAB SINK	KOHLER	K-526T-1	DROP IN	STAINLESS STEEL	FAUCET K-1043	1/2"	1/2"	1-1/2"	1-1/2"		
MS	MOP SINK	FIAT	TSB-700 SERIES	FLOOR	TERRAZZO	FAUCET K-8907	1/2"	1/2"	3"	1-1/2"		
NT	ACID NUTRIALIZATION TANK	MIFAB	M-NEUT-30-HD3000	RECESSED	POLYETHYLENE	HEAVY DUTY COVER	-	-	3"	3"		
RD-1	ROOF DRAIN	JR SMITH	1010	ROOF	CAST IRON	OPTIONAL 1020 SIDE OUTLET ATTACHMENT	-	-	-	-	MATCH SIZE OF EXISTING ROOF DRAIN	
RD-2	OVERFLOW ROOF DRAIN	JR SMITH	1080	ROOF	CAST IRON		-	-	-	-	MATCH SIZE OF EXISTING ROOF DRAIN	
SH	ROOF HYDROPANT	SH-AMS		ROOF	GALVANIZED		3/4"	-	-	-	FREEZELESS. DOES NOT REQUIRE DRAIN. INTEGRAL VACUUM BREAKER AND BACKFLOW PREVENTION	
TD30	SLOT DRAIN	FOOD SAFE DRAINS	FS1000XL SERIES	FLOOR	316 STAINLESS STEEL	RUNTRAP-54, 12x12x16 5/8" END CATCH BASIN W/ SIDE OUTLET	-	-	4"	2"	SIDE OUTLET CATCH BASIN. CATCH BASIN LOCATED END OF SLOT DRAIN. ZLORENZOF-SD-4-CHICKENPR	
TD32	SLOT DRAIN	FOOD SAFE DRAINS	FS1000XL SERIES	FLOOR	316 STAINLESS STEEL	RUNTRAP-54, 12x12x16 5/8" CENTER CATCH BASIN W/ SIDE OUTLET	-	-	4"	2"	SIDE OUTLET CATCH BASIN. CATCH BASIN LOCATED MIDDLE OF SLOT DRAIN. ZLORENZOF-SD-3-SALADS	
TDHk1	TRENCH DRAIN	FOOD SAFE DRAINS	FSFLAT TRENCH DRAIN-RUN1	FLOOR	316 STAINLESS STEEL	RUNTRAP-54	-	-	4"	2"	BOTTOM OUTLET. ZLORENZOF-TF-1-HK	
TDHk2	TRENCH DRAIN	FOOD SAFE DRAINS	FSFLAT TRENCH DRAIN-RUN2	FLOOR	316 STAINLESS STEEL	RUNTRAP-54	-	-	4"	2"	BOTTOM OUTLET. ZLORENZOF-TF-1-HK	
UR	ADA URINAL	KOHLER	K-4591-ET	WALL	WHITE/ VITREOUS CHINA	FLUSHMETER K-13520	3/4"	-	-	-		
WC-1	WATER CLOSET	KOHLER	K-9432S	WALL	WHITE/ VITREOUS CHINA	FLUSHMETER K-76321	1"	-	4"	2"		
WCO	WALL CLEANOUT	ZURN	Z1441	WALL	CAST IRON	STAINLESS STEEL ACCESS COVER	-	-	4"	-		

PLUMBING EQUIPMENT SCHEDULE													
TAG	EQUIPMENT	MANUFACTURER	MODEL	SERVICE	PUMP SECTION		HEAD PRESSURE (FT)	HP	VOLTAGE	PHASE	AMPS	ELECTRICAL SECTION	NOTES
					PUMP TYPE	FLOW RATE (GPM)						AFC RATING	
EXP	EXPANSION TANK	TACO	PAX84-150										
RCP	RECIRCULATION PUMP	EBARRA	EVMSUF3-5	HW RECIRC	RECIRCULATION	10	42.00	0.33			1.9		

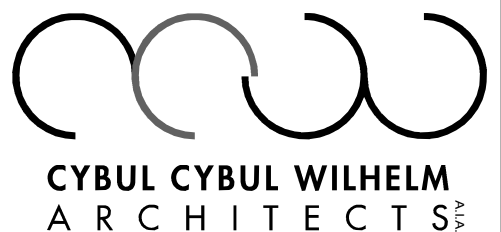
PLUMBING COMPRESSED AIR EQUIPMENT SCHEDULE									
TAG	EQUIPMENT	MANUFACTURER	MODEL	HP	VOLTAGE	PHASE	AMPS	NOTES	
A1C1	AIR COMPRESSOR	SULLAIR	3009V-V05	40.00	460	3	57.8	OUTLET CONNECTION 1-1/2", SAFETY RELIEF VALVE 1-1/2" 150 PSIG 300CFM FULL LOAD 125PSI. VALVE 3, 2.5" BACK MNT 200 PSIG DRY GAUGE-3 PRESSURE GAUGE, ELECTRONIC TIMER DRAIN VALVE 90900-04	
A1C2	AIR COMPRESSOR	SULLAIR	3009V-V05	40.00	460	3	57.8	OUTLET CONNECTION 1-1/2", SAFETY RELIEF VALVE 1-1/2" 150 PSIG 300CFM FULL LOAD 125PSI VALVE 3, 2.5" BACK MNT 200 PSIG DRY GAUGE-3 PRESSURE GAUGE, ELECTRONIC TIMER DRAIN VALVE 90900-04	
P1R1	DRYER	SULLAIR	DH1-200-V01		115	1	2.0	200 SCFM TO 40 DEG F	
P1R2	DRYER	SULLAIR	DH1-200-V01		115	1	2.0	200 SCFM TO 40 DEG F	
DT	FILTER TANK	STEEL FAB	200 GAL VERT TANK						
F1	PREFILTER	SULLAIR	SKTF-60F					PIPE CONNECTION 1-1/2"	
F2	FILTER	SULLAIR	SKTH-6250F					PIPE CONNECTION 1-1/2"	
FC	FLOW CONTROLLER	OPTIFLO	OP-200-GRN-RL					MAX FLOW 200 SCFM SET TO 115 PSI	
OS	OIL SEPARATOR	CLEAN RESOURCES	IC2-500					INSTALL IN RECESSED PIT	
WT	WET TANK	STEEL FAB	400 GAL VERT TANK						

PLUMBING STEAM EQUIPMENT SCHEDULE											
TAG	EQUIPMENT	MANUFACTURER	MODEL	FLOW RATE (GPM)	PUMP TYPE	HEAD	HP	VOLTAGE	PHASE	AMPS	NOTES
BFT	VERTICAL FEED TANK	COLUMBIA	VRT-2				0.75	115	1	13.8	
S8	BLOWDOWN SEPARATOR	COLUMBIA	BS-1								
CRP	CONDENSATE RETURN PUMP	SPS INDUSTRIES	LP52	13	CONDENSATE RETURN	46	0.33	120	1	7.5	PROVIDE 316 STAINLESS STEEL, WATERTIGHT NEMA 4X, FOR 600BSHR, 25 GAL CAPACITY
S81	STEAM BOILER	COLUMBIA	CT-15								630 MSH SET BOILER TO 80 PSI
S82	STEAM BOILER	COLUMBIA	CT-15								630 MSH SET BOILER TO 80 PSI

PLUMBING GAS WATER HEATER SCHEDULE												
TAG	SERVICE	MANUFACTURER	MODEL	STORAGE CAPACITY	INPUT MBH	GAS PRESSURE	VOLTAGE	AMPS	PHASE	RECOVERY	EFFICIENCY	NOTES
WH1	MECHANICAL ROOM	A.O. SMITH	8THS-750A	120	750.0	3.5" 1/4" WC	120	5	1	882 UG001 @ 100 DEG F RISE	0.97	PROVIDE CONDENSATE NEUTRALIZATION KIT 100289340
WH2	MECHANICAL ROOM	A.O. SMITH	8THS-750A	120	750.0	3.5" 1/4" WC	120	5	1	882 UG001 @ 100 DEG F RISE	0.97	PROVIDE CONDENSATE NEUTRALIZATION KIT 100289340
WH3	MECHANICAL ROOM	A.O. SMITH	8THS-750A	120	750.0	3.5" 1/4" WC	120	5	1	882 UG001 @ 100 DEG F RISE	0.97	PROVIDE CONDENSATE NEUTRALIZATION KIT 100289340

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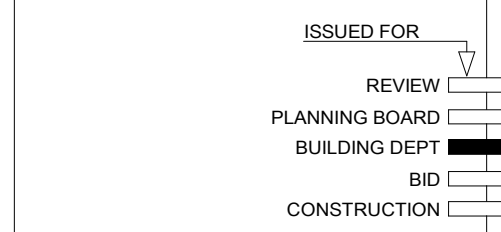
BD 
engineering



Lorenzo Foods Teterboro

25 CENTRAL AVE
TETERBORO, NJ, 07608

DOB STAMP: _____



BRIAN D. TANNENHAU

NJ PROFESSIONAL ENGINEER
NO. GE 45801
DATE: 09/24/2021

drawing name:

PLUMBING SCHEDULES

code:

release date:

drawing date: 09/24/2021

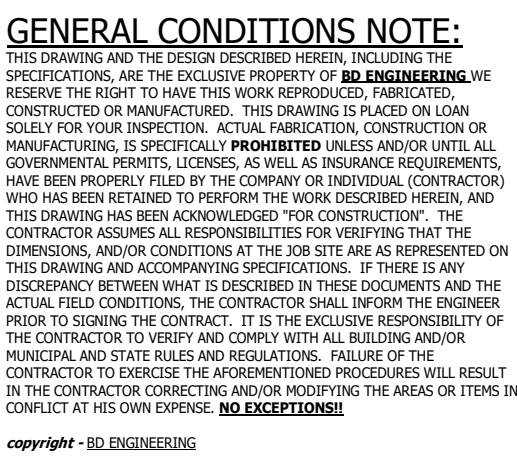
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project no.:	
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P-2000.00

DOB BARCODE:

	Total
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engineering

Lorenzo Foods Teterboro

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PETERBORO, NJ, 07608

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ISSUED FOR REVIEW ☒
ANNING BOARD ☐
BUILDING DEPT ☒
BID ☐
CONSTRUCTION ☐

BRIAN D. TANNENHAUS

NJ PROFESSIONAL ENGINEER
NO. GE 45801
DATE: 09/24/2021

drawing name:

PLUMBING DEMOLITION PLAN

scale: $3/32'' = 1'-0''$

release date:

drawing date: 02.12.2002

drawn by: R

approved by: _____ K

project no.: 2102

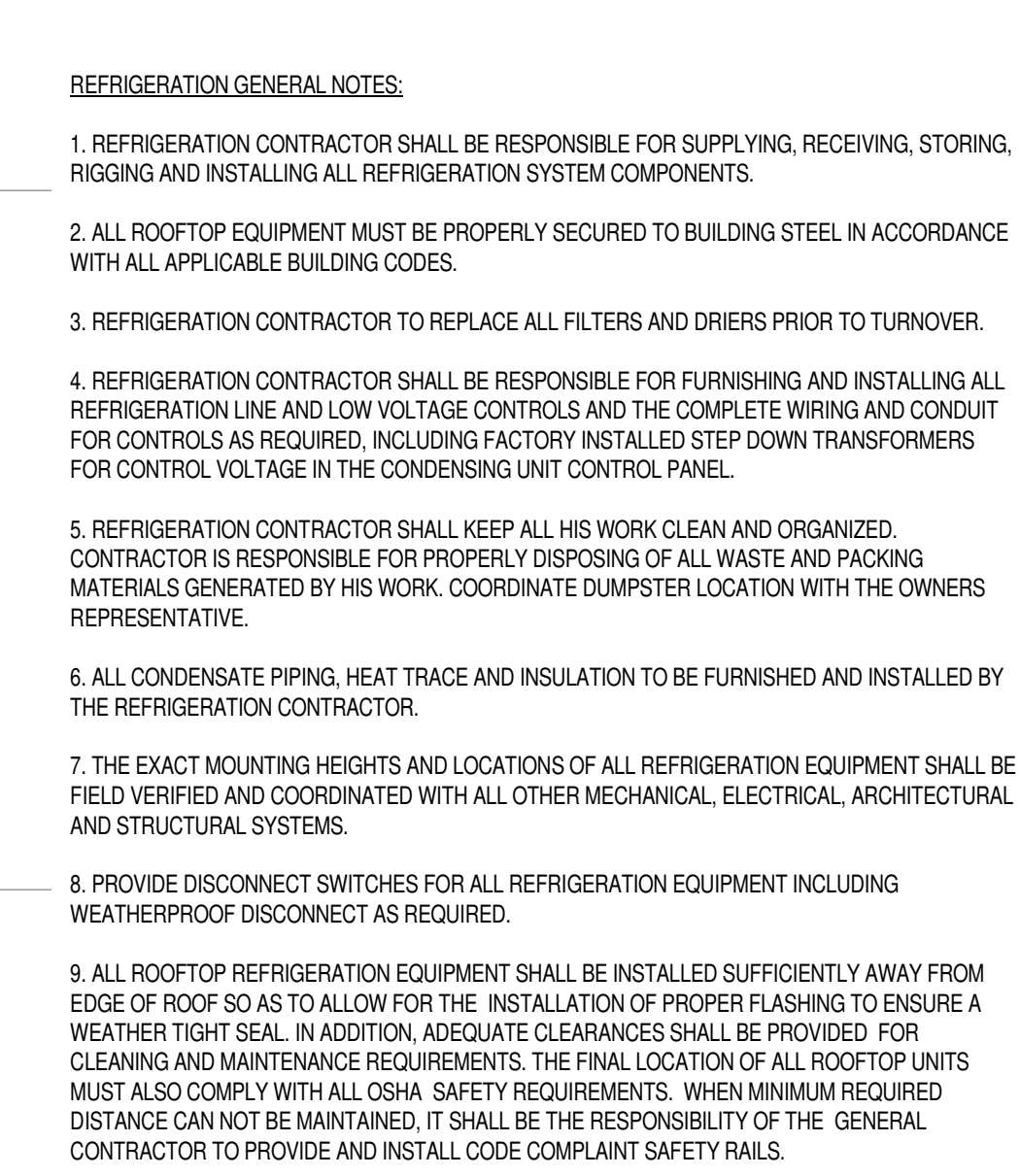
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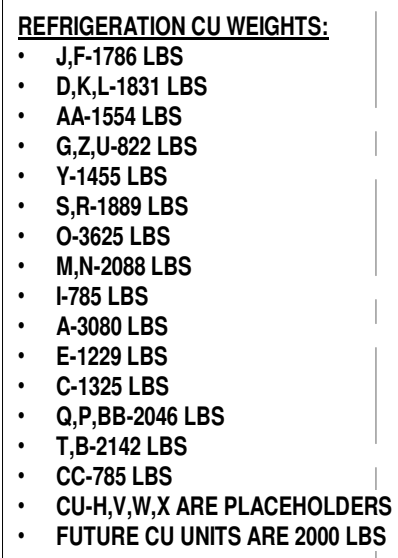
DCB BARCODE

Total



9/24/2021 3:06:03 PM


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REFRIGERATION LINES
DROP INTO THE BUILDING.
PROVIDE PIPING CURB TYP

REFRIGERATION LINESIZING				
SYSTEM	EQUIV RUN	HORIZ SUCTN	VERT SUCTN	LIQUID
A	100	2'10"	2'50"	7'8"
B	104	2'18"	2'18"	7'8"
C	132	1'50"	1'50"	7'8"
D	159	2'18"	2'18"	7'8"
E	41	1'18"	1'18"	1'12"
F	75	1'50"	1'50"	7'8"
G	109	1'18"	1'18"	1'12"
H	29	1'18"	1'18"	1'12"
I	89	1'18"	1'18"	1'12"
J	63	1'50"	1'50"	7'8"
K	105	2'18"	2'18"	7'8"
L	115	2'18"	2'18"	7'8"
M	150	2'18"	2'18"	7'8"
N	150	2'18"	2'18"	7'8"
O	150	2'18"	2'18"	1'38"
P	178	2'18"	1'50"	7'8"
Q	104	1'50"	1'50"	7'8"
R	81	1'50"	1'50"	7'8"
S	31	2'18"	2'18"	7'8"
T	121	2'18"	1'50"	7'8"
U	46	1'18"	1'18"	1'12"
V	92	2'50"	2'50"	1'18"
W	63	2'50"	2'50"	1'18"
X	49	2'50"	2'50"	1'18"
Y	104	1'38"	1'38"	5'8"
Z	75	1'18"	1'18"	1'12"
AA	98	1'18"	1'18"	5'8"
BB	92	1'50"	1'50"	7'8"
CC	52	1'38"	1'50"	7'8"

1. TRAPS ON SUCTION RISERS MUST BE AS SHORT AS POSSIBLE. USE OF PREFABRICATED TRAPS OR SHORT RADIUS ELBOWS IS ALLOWED.
2. ALL 90 DEGREE ELBOWS EXCEPT FOR RISER TRAPS SHALL BE LONG RADIIUS.
3. LIQUID LINES AND HOT GAS LINES SHALL BE SECURELY FASTENED TO HANGERS TO PREVENT VIBRATION AND LIQUID SHOCK. USE OF VIBRA MOUNTS OR CUSHION CLAMPS ON THIS PIPING IS REQUIRED.
4. SUCTION LINES SHALL BE INSTALLED TO PITCH A MINIMUM OF 1/8" PER FOOT IN THE DIRECTION OF FLOW.
5. THERMOLATORS (SUCTION LIQUID HEAT EXCHANGERS) SHALL BE INSULATED WITH A MINIMUM OF 1" ARMAFLEX.
6. THERMOLATORS SHALL BE INSTALLED ON THE ROOF WHERE PIPING PROJECTS THROUGH THE ROOF.
7. ALL LIQUID AND HOT GAS PIPING SHALL BE AS SHORT AND SYMMETRICAL AS POSSIBLE TO ASSURE EQUAL PRESSURE DROP AND FLOW TO DUAL AIR UNITS.
8. ALL PIPING SHALL BE DEHYDRATED ACR TYPE1 TUBING.
9. ALL AIR UNITS WITH HOT GAS DEFROST WILL HAVE HOT GAS HEATED DRAIN PANS. DO NOT UNDERSIZE THE HOT GAS LINE TO THE AIR UNITS.
10. ALL REFRIGERANT PIPING SHALL BE PURGED WITH NITROGEN WHEN SILVER SOLDERING TO PREVENT SCALE AND OXIDATION INSIDE THE COPPER TUBING.
11. PROVIDE ONE SPARE SCH-RADNER VALVE IN EACH AIR UNIT SUCTIION LINE FOR TESTING AND ADJUSTING SUCTION SUPERHEAT.
12. ALL EXTERIOR PIPING TO HAVE PVC UV PROTECTION.
13. CONTRACTOR TO PROVIDE ALL PIPING CURBS AND SEAL ALL PENETRATIONS AS REQUIRED.
14. REFRIGERATION LINES RUN ABOVE THE COOLER/FREEZER CEILING AND DROP INTO THE BOX AT THE EVAPORATOR CONNECTION POINT.



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DOB STAMP

ISSUED FOR
REVIEW ☒
ANNING BOARD ☐
BUILDING DEPT ☐
BID ☐
CONSTRUCTION ☐

BRIAN D. TANNENHAU

NJ PROFESSIONAL ENGINEER
NO. GE 45801
DATE: 09/24/2021

drawing name:

REFRIGERATION ROOF PIPING PLAN

scale: $3/32" = 1'-0"$

drawing date: 00/24/2023

Drawn by: E

project no.:

R-401.00

505

Total