

NY ENGINEERS

# WHITE PAPER

Dollar general

**DOLLAR GENERAL®**

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## OVERVIEW OF CHALLENGES IN THE PROJECT



## OUR CUSTOM SOLUTION

### 1. Electrical System Constraints

Dollar General's prototype includes walk-in coolers/freezers, extensive sales-floor receptacle requirements, and additional equipment loads that significantly increase the electrical demand compared to the previous tenant. Reusing the existing electrical service was the most critical challenge.

### 2. Mechanical System Reuse

The design directive required reusing the existing Rooftop Unit (RTU) and the primary ductwork. However, the new Dollar General layout required duct adjustments for improved airflow and compliance with the prototype standards.

### 3. Plumbing Adaptations

Dollar General required reusing the existing domestic cold water, sanitary lines, and water heater to keep plumbing upgrades minimal. However, refrigeration equipment introduced new condensate management needs.

### 1. Electrical System Constraints

Our team conducted detailed electrical load calculations and developed a strategy to maintain the existing service capacity. By reconfiguring the electrical panel, optimizing the circuit layout, and applying a predetermined diversity factor, we successfully balanced the added loads and eliminated the need for a costly service upgrade.

### 2. Mechanical System Reuse

We retained the existing RTU and performed targeted ductwork modifications to align with Dollar General's layout and ventilation requirements while maintaining system efficiency.

### 3. Plumbing Adaptations

We reused all major plumbing utilities and proposed a new condensate connection line for the walk-in cooler and freezer, ensuring proper discharge without impacting the existing plumbing system.



Despite the tight schedule and reuse constraints, **our team completed the full MEP design within 5 days**, delivering a code-compliant, cost-efficient, and construction-ready solution tailored to **Dollar General's rollout standards**.

**Area** - 8064 Sq. Ft.

**Services Used** - Electrical, Plumbing, Mechanical

## ARCHITECTURAL PAIN POINTS AND NY ENGINEERS' SOLUTIONS

### 01 Extended MEP Turnaround Times

- ✓ Up to 50% faster design delivery than typical MEP firms
- ✓ 2-week turnaround for most MEP design packages
- ✓ Code-compliant designs that speed up plan-check approvals



### 02 Cost and Equipment Estimation

- ✓ Value engineered designs to save cost
- ✓ Equipment selection to satisfy code requirements
- ✓ Coordination among stakeholders to smoothen supply chain

### 03 Stringent Permitting and Code Requirements

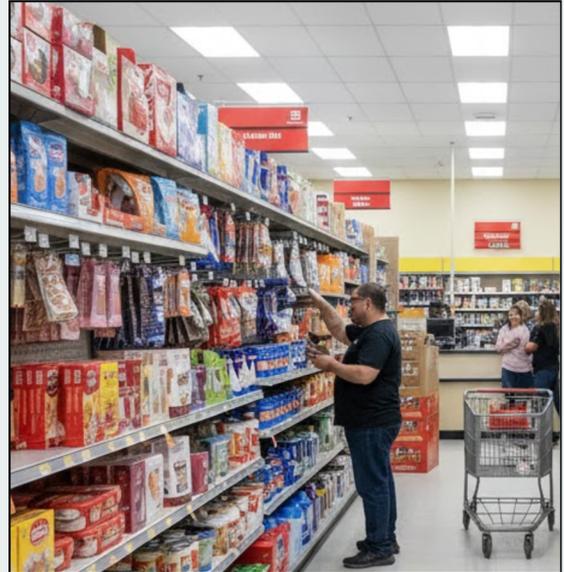
- ✓ Permit-ready MEP designs with Title 24 energy models & CALGreen checklists
- ✓ Utility coordination + full submittal package for faster approvals
- ✓ All drawings meet city-specific AHJ criteria, helping prevent plan-check revisions and delays.



## ARCHITECTURAL PAIN POINTS AND NY ENGINEERS' SOLUTIONS

### 04 Limited Electrical Capacity in Retail Suites

- ✓ Optimized, energy-efficient MEP designs to reduce load and maintain compliance requirement.
- ✓ Well-prepared Electric Load Letters + single-line diagrams for AHJ approvals.
- ✓ Alternatives: optimized lighting layouts, solar feasibility, staggered HVAC.



### 06 Coordination among trades and stakeholders

- ✓ Clash free MEP design under one roof.
- ✓ Georgia and 49 other state licenses to assist your all over US.
- ✓ Flawless coordination with GC and architect.

### 05 Responsiveness and Quality of Design

- ✓ Less than 24 hours of response time- best in the industry
- ✓ Code compliant design that has 80% first time approval
- ✓ RFI responses shared within 2 business days



OTHER RETAIL  
BRANDS WE HAVE  
WORKED WITH:

alo



crocs™ rompr'roll.



Valvoline™ popshelf



ARMANI EXCHANGE



TAG	SERVES	CFM	OA CFM	COOLING				HEATING				ELECTRICAL	WEIGHT (LBS)	MANUFACTURER / MODEL #	REMARK			
				SEER	SEER	SEER	SEER	SEER	SEER	SEER	SEER					SEER	SEER	
(ERTU1)	SEE PLANS	2000 (V.F.)	480	SAE	5.0 (V.F.)	SAE	SAE	SAE	SAE	80 (V.F.)	64 (V.F.)	SAE	200140 (V.F.)	52.7 (V.F.)	703 (V.F.)	SAE	YORK 4070R0602 (V.F.)	-
(ERTU2)	SEE PLANS	2000 (V.F.)	480	SAE	5.0 (V.F.)	SAE	SAE	SAE	SAE	80 (V.F.)	64 (V.F.)	SAE	200140 (V.F.)	52.7 (V.F.)	703 (V.F.)	SAE	YORK 4070R0602 (V.F.)	-
(ERTU3)	SEE PLANS	2000 (V.F.)	480	SAE	5.0 (V.F.)	SAE	SAE	SAE	SAE	80 (V.F.)	64 (V.F.)	SAE	200140 (V.F.)	52.7 (V.F.)	703 (V.F.)	SAE	YORK 4070R0602 (V.F.)	-
(ERTU4)	SEE PLANS	2000 (V.F.)	480	SAE	5.0 (V.F.)	SAE	SAE	SAE	SAE	80 (V.F.)	64 (V.F.)	SAE	200140 (V.F.)	52.7 (V.F.)	703 (V.F.)	SAE	YORK 4070R0602 (V.F.)	-

**NOTES:**

- EXISTING RTU WITH ALL ACCESSORIES TO REMAIN SAME AND TO BE REUSED.
- S.A.E. SAME AS EXISTING. I.F.P. VERIFY IN FIELD.
- CONTRACTOR TO VERIFY FIELD IF RTU IN WORK AREA AT THEIR 100% RATED CAPACITIES/LOADS. INFORM TO DESIGN ENGINEER IF ANY DISCREPANCIES ARE FOUND IN PERFORMANCE PRIOR TO CONSTRUCTION.
- CONTRACTOR TO VERIFY IN FIELD THE EXACT HEATING CAPACITY OF THE UNIT.
- CONTRACTOR TO FIELD VERIFY THE EXACT HEATING CAPACITY OF THE UNIT.
- CONTRACTOR TO FIELD VERIFY THE EXACT HEATING CAPACITY OF THE UNIT.
- CONTRACTOR TO BALANCE OUTSIDE AIR & RETURN AIR DAMPERS ON EXISTING RTU TO MATCH VALUES DESIGNER IN ABOVE TABLE.
- CLEAN/REPLACE RETURN AIR FILTERS.

**VENTILATION CALCULATION**

ROOM NAME	AREA (SF)	NUMBER OF PEOPLE/1000 SQ. FT. AS PER NIAE 2021	NUMBER OF PEOPLE PER ROOM	FINAL PEOPLE NO.	CFM AS PER NIAE 2021	CFM/PERSON	CFM/SQ.FT.	CALCULATED VENT. CFM	PROVIDED OA CFM	TOILET EXHAUST CFM
SALES	7184	15	108	108	7.5	0.12	1672	1700	0	0
RECEIVING AREA	596	2	2	2	10	0.12	134	140	0	0
HALL	126	0	0	2	0	0.06	7	10	0	0
BREAK ROOM	67	100	7	7	7.5	0.18	65	70	0	0
RESTROOM-1	65	0	0	0	0	0	0	0	0	70
RESTROOM-2	58	0	0	0	0	0	0	0	0	70
OFFICE	64	5	1	1	5	0.06	9	10	0	0
<b>TOTAL</b>	<b>8491</b>	-	<b>128</b>	<b>133</b>	-	-	-	<b>1887</b>	<b>1900</b>	<b>140</b>

**FAN SCHEDULE**

UNIT TAG	TYPE	LOCATION	MAKE AND MODEL	DESIGN CFM	SLP (IN.W.G)	SEC (1/2IN.W.G)	NOISE (DBA)	WGT (LBS)	OPERATION	REMARK
(FAN1)	CEILING EXHAUST	SEE PLANS	GREENHECK SP-900111	70	0.5	115/90	0.4/35	940	40	INTERLOCK WITH DAMPERS

**NOTES:**

- INTERLOCK FAN WITH LIGHT.
- COORDINATE WITH ARCH./E.C. ACCESS DOORS FOR SERVING ALL FANS WITH CEILING.
- FAN SPEED SHALL BE EXHAUST FLOW ADJUSTABLE.
- FAN SHALL HAVE INLET BACKDRAFT DAMPER.
- REFER TO SCHEDULES FOR MOUNTING AND SUPPORT FRAMING OF OTHERS.
- CONTRACTOR TO BALANCE OUTSIDE AIR & RETURN AIR DAMPERS ON EXISTING RTU TO MATCH VALUES DESIGNER IN ABOVE TABLE.
- ALL EQUIPMENT NORMAL POWER WIRING BY ELECTRICAL CONTRACTOR. COORDINATE POWER REQUIREMENTS.

**DIFFUSER & GRILLE SCHEDULE**

TAG	MAKE & MODEL	OUTER SIZE	NECK SIZE	CFM RANGE	DESCRIPTION
(SD1)	TITUS TMS	24"x24"	6"	0-130	SUPPLY DIFFUSER. STEEL CONSTRUCTION. SUPPLY DIFFUSER. PROVIDE WITH OPPOSED BLADE DAMPER & LAY AN MOUNT TYPE. ROUND NECK CEILING DIFFUSER WITH REMOVABLE CENTER CONE.
(SD2)	TITUS TMS	12"x12"	6"	0-130	SUPPLY DIFFUSER. STEEL CONSTRUCTION. SUPPLY DIFFUSER. PROVIDE WITH OPPOSED BLADE DAMPER & LAY AN MOUNT TYPE. ROUND NECK CEILING DIFFUSER WITH REMOVABLE CENTER CONE.
(SG1)	TITUS 300FL	24"x14"	6"	350-500	SUPPLY GRILLE. ALUMINUM CONSTRUCTION. SUPPLY AIR GRILLE WITH BLADES ON 30° CENTER. PARALLEL TO THE FLOW DIRECTION AND SET AT 30 DEGREES. PROVIDE WITH BORDER. SUITABLE FOR INSTALLATION. PROVIDE ROUND CONNECTION. FITTING IF REQUIRED.
(DB1)	TITUS CT 700L	12"x12"	6"	80-150	DOOR GRILLE. ALUMINUM CONSTRUCTION. DOOR GRILLE.
(DB2)	TITUS CT 700L	12"x12"	6"	150-180	DOOR GRILLE. ALUMINUM CONSTRUCTION. DOOR GRILLE.
(RS1)	TITUS PAR	24"x24"	6"	450-550	RETURN GRILLE. STEEL CONSTRUCTION. OFF-WHITE FINISH. VOLUME DAMPER IN THROAT. PERFORATED FACE HAS 3/8" DIAMETER HOLES ON 1" SPACING. CENTERS. A TALEY COLLAR (NECA) HAS AMPLE DEPTH FOR EASY DUCT CONNECTION.

**NOTES:**

- COORDINATE FINAL ACCESSORIES, FRAMES, AND LENGTHS WITH CONSTRUCTION MANAGER/ARCHITECT PRIOR TO PROCUREMENT.
- PROVIDE 60° DEVICE WITH OPPOSED BLADE VOLUME DAMPER. DEVICE ROUNDOUT SHALL BE SAME SIZE. A DIFFUSER NEEDS CONNECTION TO TITUS OR APPROVED EQUIVALENT. ALL SUPPLY/RETURN AIR DEVICES SHALL NOT EXCEED 25 NC.
- SELECTION BASED ON TITUS OR APPROVED EQUIVALENT. ALL SUPPLY/RETURN AIR DEVICES SHALL NOT EXCEED 25 NC.

**AIR BALANCE**

UNIT	OA CFM	EA CFM
(ERTU-1)	480	-
(ERTU-2)	480	-
(ERTU-3)	480	-
(ERTU-4)	480	-
(FAN-1)	-	70
(FAN-2)	-	70
<b>TOTAL</b>	<b>1920</b>	<b>140</b>
<b>BUILDING PRESSURE</b>	<b>+1790</b>	

**MECHANICAL SCHEDULES**

SCALE	NTS
2	NTS

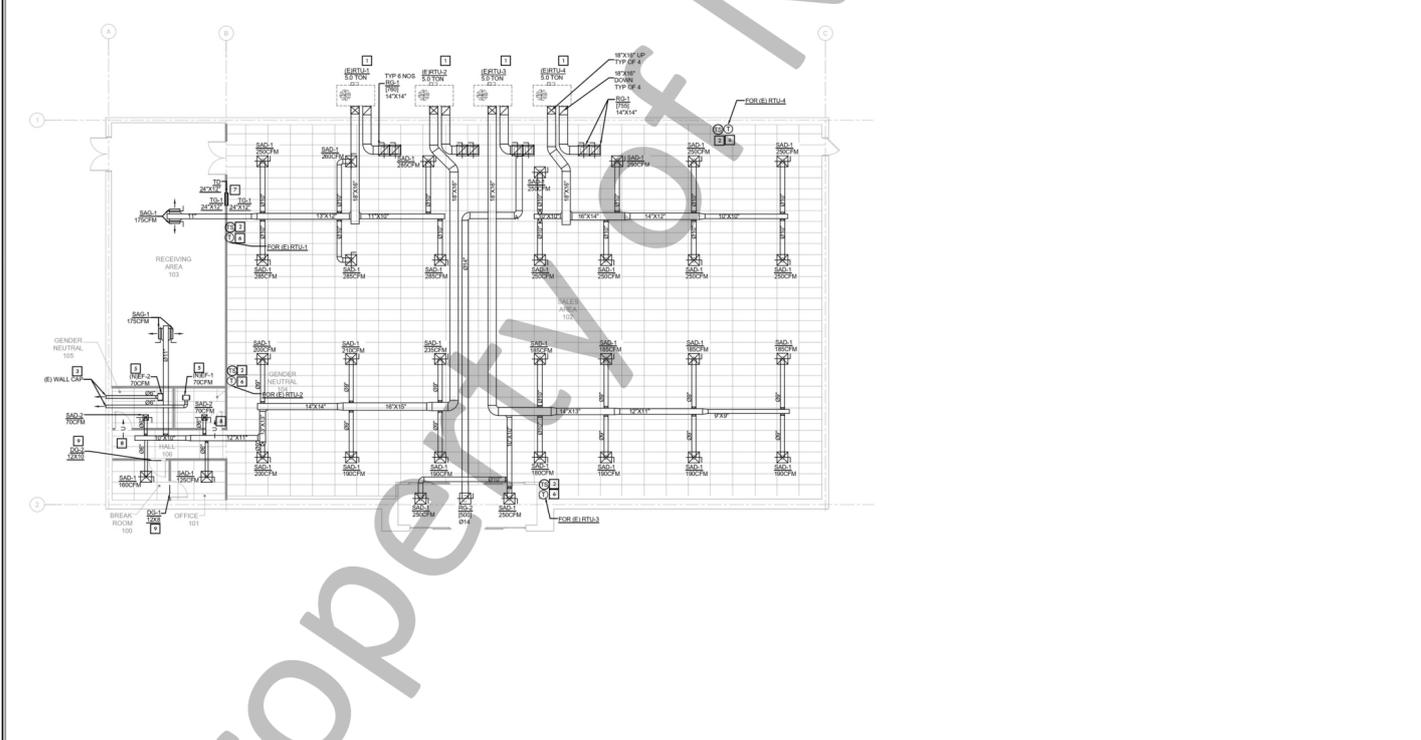


**LOCATION:**  
DEMING, NM  
614 EAST WALNUT STREET,  
DEMING, NM 8002

**PROJECT INFORMATION:**  
DATE: 09/19/23  
PROJECT NUMBER: 12851-25  
AREA: R302 SF  
DRAWN BY: MFC/CHECKED BY: NYE

**TITLE:**  
MECHANICAL SCHEDULES

**SHEET NUMBER:**  
M2.1



**MECHANICAL LEGEND**

	TEMPERATURE SENSOR		VOLUME DAMPER
	NEW DUCTWORK		RETURN AIR DEVICE
	EXISTING DUCTWORK TO REMAIN		A-RATED INSULATION
	GRAVITY DAMPER		DUCT INSULATION
	SAME AS EXISTING		RELOCATED
	TRANSFER DUCT		DOOR UNDERCUT
	HOSE VIEW		FIELD CONNECTION
	CELLS SUPPLY AIR DIFFUSER (SAD)		DOOR UNDERCUT
	CELLS RETURN AIR DIFFUSER (RAD)		DOOR UNDERCUT
	WALL HEATER		DOOR UNDERCUT
	AIR HANDLER		DOOR UNDERCUT

**MECHANICAL GENERAL NOTES**

- CONTRACTOR SHALL BALANCE EACH DEVICE WITH THE CFM SHOWN ON PLAN.
- DUCTWORK SHOWN ON PLAN ARE SCHEMATIC ONLY. CONTRACTOR SHALL COORDINATE WITH OTHER TRADES FOR PIPING AND DUCTWORK. PROVIDE AIR EXHAUST FROM DUCTWORK INSIDE THE STRUCTURE IF REQUIRED. PROVIDE AIR EXHAUST FROM DUCTWORK INSIDE THE STRUCTURE. PROVIDE AIR EXHAUST FROM DUCTWORK INSIDE THE STRUCTURE. PROVIDE AIR EXHAUST FROM DUCTWORK INSIDE THE STRUCTURE.
- EQUIPMENT SIZES, DIMENSIONS AND REQUIRED CONNECTIONS SHALL BE DETERMINED BY THE ACTUAL EQUIPMENT. SELECTED VENDOR DRAWINGS BEFORE FABRICATION OF DUCTWORK, PIPING, ETC.
- DUCT SIZES SHOWN ON PLANS ARE CLEAR INSIDE AIR STREAM DIMENSIONS.
- CONTRACTOR SHALL COORDINATE ALL ELECTRICAL REQUIREMENTS FOR DUCTWORK BASED ON ACTUAL EQUIPMENT. SELECTED VENDOR DRAWINGS BEFORE FABRICATION OF DUCTWORK, PIPING, ETC.
- CONTRACTOR SHALL COORDINATE EQUIPMENT WEIGHTS AND SUPPORTS BASED ON ACTUAL EQUIPMENT. SELECTED VENDOR DRAWINGS BEFORE FABRICATION OF DUCTWORK, PIPING, ETC.
- COORDINATE WITH ALL TRADES FOR MATERIALS IN RATED AND PLENUM AREAS.
- MOUNT DUCTWORK AS HIGH AS POSSIBLE.
- TEST AND BALANCE AIR SYSTEMS. PROVIDE REPORT TO G.C. AND OWNER.
- COORDINATE ALL EQUIPMENT WITH STRUCTURAL.
- PROVIDE FIRE OR FIRE-RATED DAMPERS. WHEREVER DUCTS ARE CROSSING FIRE-RATED WALLS/BARRIERS. COORDINATE WITH ARCHITECTURAL DRAWINGS FOR THE RATING OF THE WALLS.
- PROVIDE OVER-EXPOSED DAMPERS IN WALL/CLEARING CEILING.
- PROVIDE INTERNAL INSULATION FOR EXPOSED DUCTWORK AND EXTERNAL INSULATION FOR DUCTWORK CEILING SPACE.

**KEY NOTES**

- EXISTING RTU TO REMAIN ALONG WITH ALL ASSOCIATED SUPPORTS, DUCTWORK, CONDENSATE DRAIN PIPING, CONTROLS AND ACCESSORIES. CLEAN AND REPAIR/REPLACE TO "AS-BUILT" CONDITION. REPAIR/REPLACE ANY ACCESSORIES AS REQUIRED TO PROVIDE A FULLY FUNCTIONING VERIFIED IN FIELD. PRIOR TO BID, CONTRACTOR TO ENSURE SA & EA CFM OF THE EXISTING RTU TO BE BALANCED AS PER THE AS-BUILT CONDITIONS. BALANCE OUTSIDE AIR OF EACH RTU TO MATCH TOTAL OR REQUIREMENT OF THE SPACE PER AIR BALANCING TABLE IN MECHANICAL SCHEDULES. ENSURE OA CFM OF EXISTING RTU SHOULD NOT EXCEED 25% OF THE RTU SA CFM. NOTIFY ARCHITECT/ENGINEER OF ANY DISCREPANCIES PRIOR TO BID. HVAC UNITS NEED TO BE SERVICED BY HVAC CONTRACTOR. ASSESS UNITS AND REPLACE BELT FILTERS AND HEAT EXCHANGERS AS NEEDED.
- EXISTING TEMPERATURE SENSORS ON THE SALES AREA HALL TO REMAIN. CONTRACTOR TO VERIFY IN FIELD, REPLACE IN KINDS IF DAMAGED. COORDINATE WITH RTU MANUFACTURER FOR COMPATIBLE CONTROLS AS REQUIRED.
- EXISTING EXHAUST HULL CAP SHALL BE MINIMUM 8" AFF FROM ANY OUTSIDE AIR TRAVEL & 3" AFF FROM ANY POSSIBLE OPENINGS. CONTRACTOR TO FIELD VERIFY THE FIRE RATING OF WALL. PROVIDE FIRE DAMPERS AT WALL PENETRATIONS AS IF REQUIRED BY LOCAL CODES.
- PROVIDE DOOR TRANSFER GRILLE FOR RETURN AIR AS SHOWN ON PLAN. COORDINATE WITH ARCHITECT FOR THE FINAL SIZE, COLOR AND STYLE.
- PROVIDE NEW TOILET EXHAUST FAN ALONG WITH DUCTWORK AS SHOWN. CONTRACTOR TO VERIFY EXACT LOCATION, DISTANCE AND CONNECTION POINT IN FIELD. ENSURE TERMINATION OF THE EXHAUST DUCT AT SIDE WALL PROVIDED WITH APPROVED TERMINATION CAP. TERMINATE AT MINIMUM 5' AWAY FROM FRESH AIR INTAKE AND 2' FROM LOT LINE.
- EXISTING THERMOSTAT TO BE REUSED AND REMAIN. CONTRACTOR TO CLEAN AND REPAIR/REPLACE TO LIKE NEW CONDITION. REPAIR OR REPLACE WITH SAME KIND AND DAMAGED.
- EXISTING TRANSFER DUCT OF SIZE 24"x12" BELOW SALES AREA CEILING. PROVIDE GRILLE ON BOTH SIDE.
- PROVIDE 1" DOOR UNDER CUT FOR AIR FLOW.
- PROVIDE DOOR TRANSFER GRILLE FOR RETURN AIR AS SHOWN ON PLAN COORDINATE WITH ARCHITECT FOR COLOR/FINISH.

**EMS NOTE**

CONTRACTOR TO COORDINATE WITH EMS VENDOR FOR ALL LOW VOLTAGE WIRING AND SENSORS REQUIREMENT. COORDINATE FOR CONNECTION OF THE HVAC UNITS TO EMERGENCY ENERGY MANAGEMENT SYSTEM (EMS).

**DEMOLITION NOTE**

ALL DUCTWORK & AIR TERMINALS (INCLUDING ACCESSORIES AND SUPPORTS) SHALL BE DEMOLISHED AND SCRAPPED.

**PLAN NOTE**

CONTRACTOR SHALL FIELD VERIFY THE EXISTING CONDITION OF ALL DUCTWORK, AIR TERMINALS AND HVAC EQUIPMENT. REUSE ALL UNDAMAGED ITEMS AND REPLACE ALL DAMAGED ITEMS CAUSED BY THE FIRE WITH NEW AS SHOWN IN THE PLAN.



**LOCATION:**  
DEMING, NM  
614 EAST WALNUT STREET,  
DEMING, NM 8002

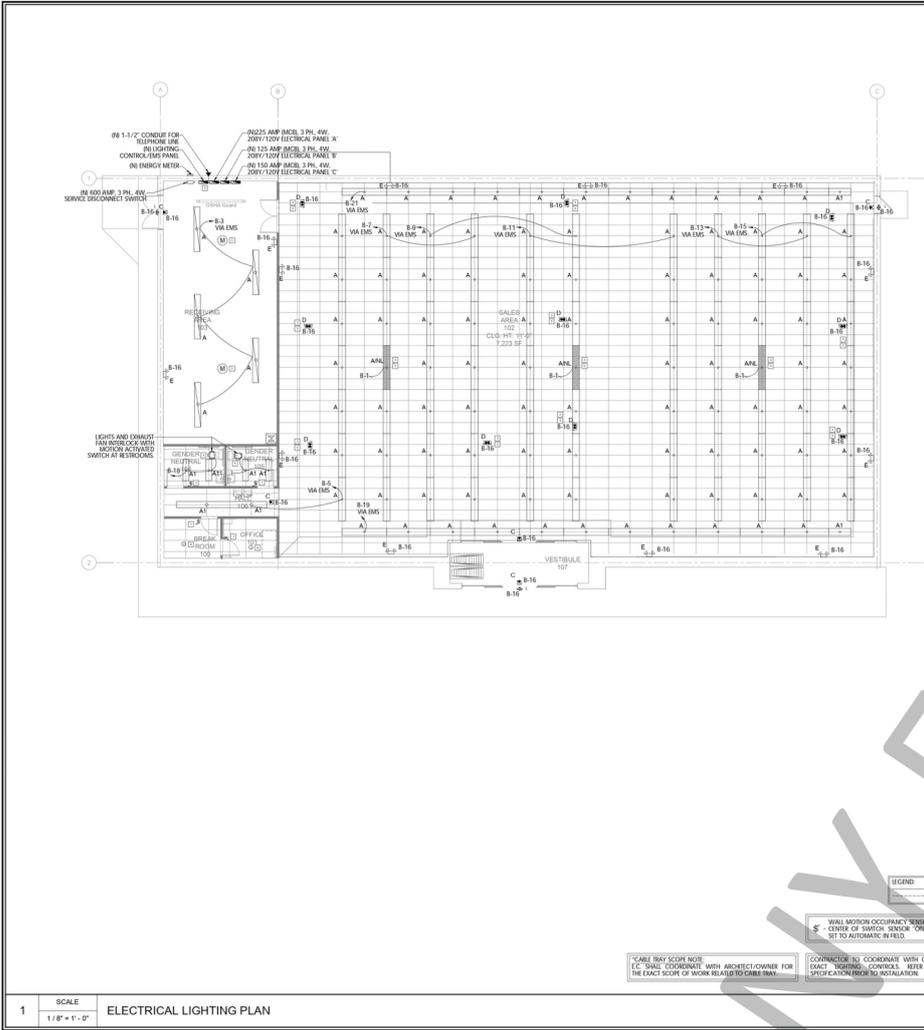
**PROJECT INFORMATION:**  
DATE: 09/19/23  
PROJECT NUMBER: 12851-25  
AREA: R302 SF  
DRAWN BY: MFC/CHECKED BY: NYE

**TITLE:**  
MECHANICAL FLOOR PLAN

**SHEET NUMBER:**  
M2.0







### LIGHTING KEYNOTES

- PROVIDE NEW MOTION SENSOR SWITCH MOUNTED AT 4'-0" A.F.F. AND TIE INTO LIGHTING CIRCUIT. CONNECT ALL NEW LIGHTING FIXTURES WITH THE SPACE WITH MOTION SENSOR.
- NEW DIM PANEL E.C. SHALL VERIFY THE EXACT LOCATION AND OPERABLE CONDITION OF EXISTING DIM PANEL IN FIELD. PROVIDE NEW IF FOUND INOPERABLE OR REQUIRED NEW PER LOCAL GENERAL STANDARDS. BASE BID ACCORDINGLY.
- THE NEW EMERGENCY LIGHT, NIGHT LIGHT & EXIT SIGN WITH MINIMUM 90 MINUTES BATTERY BACK-UP TO AREA NEAREST LIGHTING BRANCH CIRCUIT AREA OF CONTROL. OR TO CIRCUIT B-16 AS SHOWN ON PLAN.
- EXHAUST FAN SHALL BE INTERLOCKED WITH MOTION SENSOR.
- E.C. SHALL PROVIDE THE BREAKER LOCK FOR THE NIGHT LIGHTS/EMERGENCY EXIT LIGHTS IN THE SALES AND RECEIVING AREAS.
- E.C. SHALL COORDINATE WITH THE ARCHITECT/OWNER FOR THE EXACT LIGHTING FIXTURE TYPE FOR THE BREAK ROOM & OFFICE PRIOR TO BID. PROVIDE CONTROL AS SHOWN ON THE PLAN INCLUDING WIRING.
- RECEIVING AREA LIGHTS ARE MOTION SENSOR CONTROLLED. MOUNT AT 10'-12" AFF AND SPACE EVEN BETWEEN FRONT AND REAR WALL OF THE RECEIVING AREA.

### LIGHTING SCHEDULE

SYMA	TYPE	MANUF.	PART NUMBER	DESCRIPTION	COUNT
A	CUMB	VM54732-450		4 LED FIXTURE ABOVE RECEIVING INCLUDES (2) W/ CABLES	104
A1	CUMB	VM54732-450		4 LED FIXTURE AERIAL MOUNT	8
ANL	CUMB	VM54732-450		4 LED FIXTURE SURFACE MOUNT	0
ANL	CUMB	VM54732-450		4 LED FIXTURE SURFACE MOUNT	5
B	CUMB	3-5T-25-24		2 LED FIXTURE SURFACE MOUNT	5
C	CUMB	ALEXA 2-R-W-EM		LED EXIT SIGN	PER CODE
D	CUMB	ALEXA 12-R-EM		EMERGENCY LIGHT (2) HEADS	PER CODE
E	CUMB	ALBE 12-R-W		EMERGENCY LIGHT (2) HEADS	PER CODE
F	CUMB	WIK 16-EM		EMERGENCY LIGHT (2) HEADS	PER CODE
G	CUMB	BL-MSA-404-100		WALL PANEL	1

CONTRACTOR SHALL COORDINATE FINAL LIGHTING FIXTURE MAKE, WATTAGE AND MODEL WITH ARCHITECT.

### CABLE TRAY NOTES

CABLE TRAY MATERIALS LIST

MARKET TRAY	WHITE UNDER ROLLS	SPECK KITS	TIE'S	BACKUS	PURIN CLIPS	SPEED LINKS
GRABBAR	BRONZE BANISTER			615-743-2002	dg@ny-engineers.com	

### CABLE TRAY NOTES

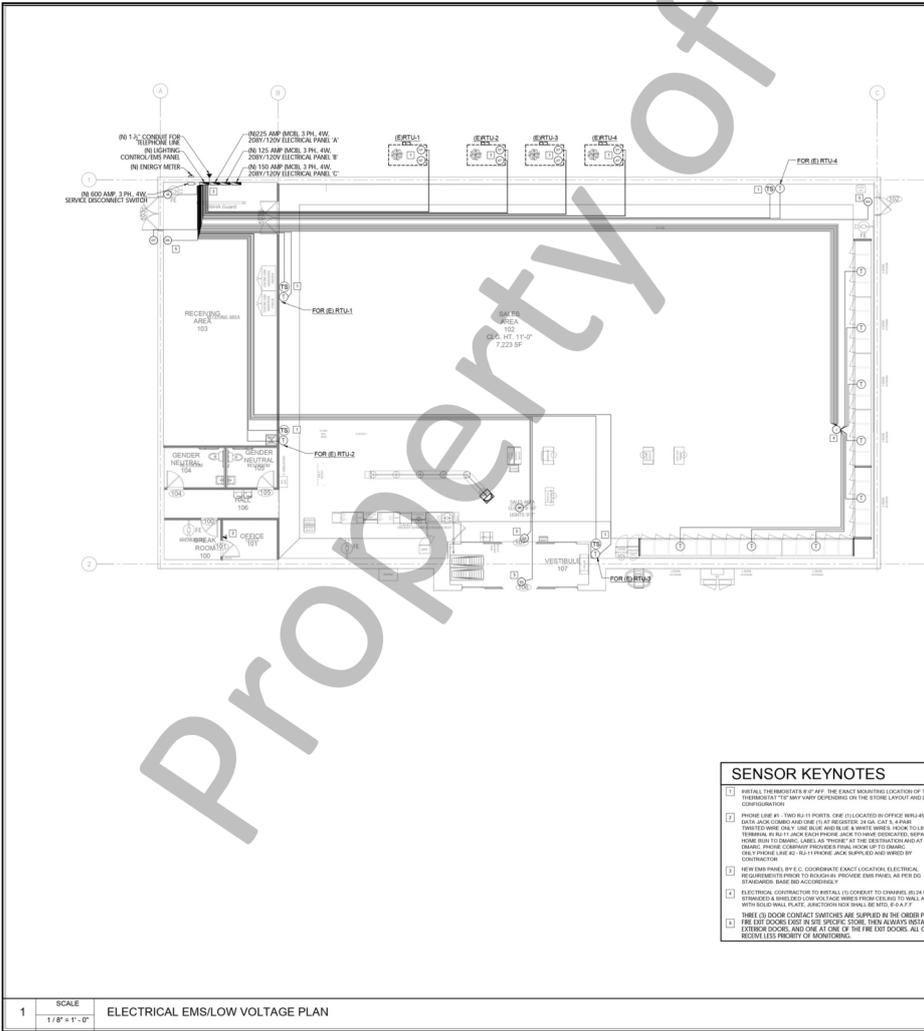
- CABLE TRAY TO BE MOUNTED SUCH THAT THE BOTTOM OF TRAY IS ABOVE SALES AREA LIGHTS.
- CABLE TRAY SYSTEM TO BE INSTALLED USING FULL LENGTHS WITH MINIMAL CUTTING OF SECTIONS.
- GENERAL CONTRACTOR SHALL PROVIDE AND SUPPLY ELECTRICAL RIGID CABLE TRAY AND ALL CONDUIT WITH RIGID STRINGS AS REQUIRED. INSTALLATION MUST BE COMPLETED PRIOR TO DAY 01 (ONLINE OF FIXTURES OR USE QUALITY ASSURANCE DATE, WHICHEVER IS EARLIER).

LOCATION:  
**DEMING, NM**  
 814 EAST WALNUT STREET,  
 DEMING, NM 86003

PROJECT INFORMATION:  
 DATE: 09/10/23  
 PROJECT NUMBER: 12851-25  
 AREA: 8,382 SF  
 DRAWN BY: NYE/CHECKED BY NYE

TITLE:  
**ELECTRICAL LIGHTING PLAN**

SHEET NUMBER:  
**E2**



### PROGRAM CONTROLLER DETAIL

SCALE: 2" = 1'-0"

### GENERAL NOTES

- REFER TO IT FOR GENERAL CONTRACTOR RESPONSIBILITIES. E.C. MAY USE CABLE TRAY FOR LOW VOLTAGE CABLES SEE 2/12.
- RUN CONDUIT FROM SENSORS TO BOTTOM OF STRUCTURE.
- REFRIGERATION UNITS TO BE CONNECTED TO DIM PANEL BY DOLLAR GENERAL REFRIGERATION CONTRACTOR.
- PLAN IS DIAGRAM ONLY. HOLD CONTACT TIGHT TO EXPOSED MAIN GRITS AND RUN AS HIGH AS POSSIBLE ALONG FRONT WALLS TO REEER TO MECHANICAL DRAWING 341 FOR LOCATIONS OF EXHIBITS.

### REQUIRED NATIONAL ACCOUNT VENDORS

CATEGORY - PHONE #	CONTACT'S	CONTACT INFORMATION SUBJECT TO CHANGE
EMERSON CONTACT CENTER 800-541-7877	WISCONSIN	EMERSON'S NOTE: COORDINATE DOLLAR GENERAL DIM PANEL REQUIRING 200V & 400V. SHALL BE COORDINATED WITH THE ARCHITECT/OWNER PRIOR TO BID.
EMERSON SYSTEMS INSTALLATION 815-855-5960	ILLINOIS	EMERSON'S NOTE: EMERSON'S SYSTEMS INSTALLATION COORDINATE WITH THE ARCHITECT/OWNER PRIOR TO BID.

### DEVICE SCHEDULE

SYMA	DESCRIPTION	CABLE TYPE	SUPPLIER	INSTALLER	NOTES
1	AHU TERMINAL SWITCH	BC 15-14T CABLE	EMS SUPPLIER	GENERAL CONTRACTOR	(1) PER RECEIVING ENTRY
2	DOOR CONTACT SWITCH	BILDEN 8781 OR EQUIVALENT (2)24VDC, 2C, STRANDED, SHIELDED	EMS SUPPLIER	GENERAL CONTRACTOR	(1) PER RECEIVING ENTRY
3	NETWORK CABLE WITH 15' OF ROOM FRONT DOORS	CATS 6/45 CONNECTOR ON BOTH ENDS. LEAVE 2' COILED IN REGISTER. CONNECT AT DIM PANEL.	GENERAL CONTRACTOR	GENERAL CONTRACTOR	(1) PER REGISTER AREA
4	MOTION SENSOR MTD 15' OF ROOM FRONT DOORS	FRANKLIN 4C, STRANDED, SHIELDED LUTVION IZ-FIND 00035-EDW	EMS SUPPLIER	GENERAL CONTRACTOR	(1) PER FRONT ENTRY
5	OUTDOOR AIR TEMP MTD @ 8' 0" A.F.F.	BILDEN 8781 OR EQUIVALENT (2)24VDC, 2C, STRANDED, SHIELDED	EMS SUPPLIER	GENERAL CONTRACTOR	(1) PER RECEIVING ENTRY
6	SUPPLY TEMP (2)121 MTD IN SUPPLY DUCT	BILDEN 8781 OR EQUIVALENT (2)24VDC, 2C, STRANDED, SHIELDED	EMS SUPPLIER	GENERAL CONTRACTOR	(1) PER HVAC UNIT ZONE
7	TEMPERATURE SENSOR (2)1121 MTD IN SUPPLY DUCT	BILDEN 8781 OR EQUIVALENT (2)24VDC, 2C, STRANDED, SHIELDED	EMS SUPPLIER	GENERAL CONTRACTOR	(1) PER COOLER ROOM
8	TEMPERATURE SPACE SENSOR (2)1121 MTD @ 8' 0" A.F.F.	BILDEN 8781 OR EQUIVALENT (2)24VDC, 2C, STRANDED, SHIELDED	EMS SUPPLIER	GENERAL CONTRACTOR	(1) PER HVAC UNIT ZONE
9	MOTION SENSOR SWITCH	LUTVION IZ-FIND 005-100-10W	GENERAL CONTRACTOR	GENERAL CONTRACTOR	(1) PER OFFICE
10	811 (F) 45 (DATA JACK PHONE COMMO)	CS1 1200A CABLE (2)24VDC, 4 TWISTED PAIR)	GENERAL CONTRACTOR	GENERAL CONTRACTOR	(1) AT OFFICE COMPUTER CAB

### SENSOR KEYNOTES

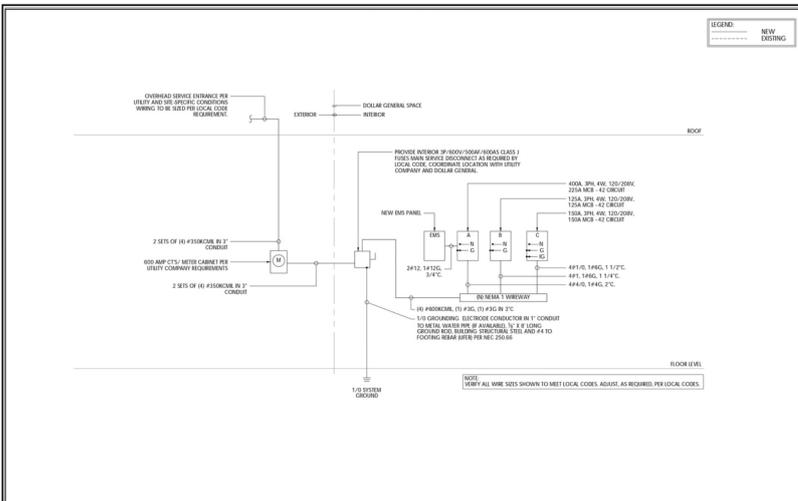
- INSTALL THE EXHIBITS AT 4'-0" AFF. THE EXACT MOUNTING LOCATION OF THE EXHIBITS 10" MAY VARY DEPENDING ON THE FLOOR LAYOUT AND DUCT CONFIGURATION.
- PHONE LINE IN 120V/240V POWER. THE EXACT LOCATION OF OFFICE PHONE LINE AND COORDINATE WITH THE ARCHITECT/OWNER. USE OF TERMINAL BLOCK AND JACK PHONE JACK TO WIRE DESIGNATED. SEPARATE PHONE LINE FROM DATA JACK PHONE JACK AT THE EXHIBITS AND 4' FROM THE PHONE CORDS. PROVIDE FINAL LOCK OF THE EXHIBITS. FINAL PHASE COORDINATE WITH ARCHITECT/OWNER.
- NEW DIM PANEL, BY E.C. COORDINATE EXACT LOCATION, ELECTRICAL REQUIREMENTS PRIOR TO INSTALL. PROVIDE DIM PANEL AS PER DIM PANEL INFORMATION.
- ELECTRICAL CONTRACTOR TO VERIFY (1) CONDUIT TO CHANNEL IN WALL & CONDUIT STRANDED & SHIELDED (2) VOLTAGE WIRES FROM CHANNEL TO WALL AND COVER JUNCTION BOX WITH INSULATED PLATE. JUNCTION BOX SHALL BE 8" x 4" x 4".
- THREE (3) DOOR CONTACT SWITCHES ARE SUPPLIED IN THE ORDER PACKAGE. SHOULD MORE BE REQUIRED CONTACT SWITCHES SPECIFY TYPE, THEN ADVISES INSTALL TWO AT RECEIVING EXTERIOR DOORS AND ONE AT ONE OF THE FIRE EXIT DOORS. ALL OTHER FIRE EXIT DOORS RECEIVE LDD PROPERTY OF MONITORING.

LOCATION:  
**DEMING, NM**  
 814 EAST WALNUT STREET,  
 DEMING, NM 86003

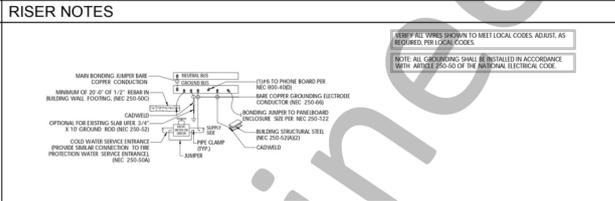
PROJECT INFORMATION:  
 DATE: 09/10/23  
 PROJECT NUMBER: 12851-25  
 AREA: 8,382 SF  
 DRAWN BY: NYE/CHECKED BY NYE

TITLE:  
**ELECTRICAL EMS/LOW VOLTAGE PLAN**

SHEET NUMBER:  
**EMS1**



1. ALL CONDITIONS TO BE FIELD VERIFIED BEFORE SUBMITTING BID.
2. CONTRACTOR TO MAINTAIN THE RATING OF PARTITION NEW ELECTRICAL EQUIPMENT IS BEING REQUIRED TO.
3. ALL ELECTRICAL WORK BEING SHOWN IN SCHEMATIC IS EXISTING UNLESS OTHERWISE NOTED.
4. CONTRACTOR IS RESPONSIBLE FOR CHECKING ALL VOLTAGES ON PLANS UPON FIRST VISIT TO THE SITE. THE RECORDING SERVICE SHOULD CONSIDER TO THE OPERATIONS FOR THE WORK LOCATIONS AND BE A FULL CONTRACTOR AND PROPERTY NOTED ON THE ELECTRICAL PANEL DIAGRAMS AND NOTES ARE LOCATED THEREAS TO BE RECORDED TO THE ARCHITECT IMMEDIATELY.
5. HVAC CIRCUIT BREAKERS SHALL BE "RAC" TYPE WHERE REQUIRED BY EQUIPMENT MANUFACTURER PER I.E.C.
6. CONTRACTOR SHALL FIELD VERIFY EXACT A.L.C. RATING OF EXISTING EQUIPMENT, FURNISH AND INSTALL REMAINS SYSTEM TO MATCH.
7. ELECTRICAL CONTRACTOR SHALL BRANCHED ALL PANELS AND ELECTRICAL EQUIPMENT TO TOTAL BETWEEN PANELS A B, C, & A.C. REGRADERS OF CIRCUITING INDICATED.
8. RECORD CONTRACTOR MUST BE HANDY ABOUT ELECTRICAL EQUIPMENT PER I.E.C. FIELD VERIFY EXACT SPOURING SPACE AVAILABLE IN ELECTRICAL ROOMS PRIOR TO INSTALLATION OF ELECTRICAL EQUIPMENT.
9. CONTRACTOR SHALL NAME ALL FINAL ELECTRICAL CONNECTIONS FOR A COMPLETE ELECTRICAL DESCRIPTION, STORE.
10. ALL ELECTRICAL WORK BEING SHOWN IS TO BE FIELD ACCESSIBLE FOR OPERATING, SERVICING, MAINTENANCE & REPAIRS.



ELECTRICAL RISER DIAGRAM

GROUNDING DETAIL

PANEL TYPE	DESCRIPTION	PHASE	WIRE SIZE	CONDUIT	NOTES
1 (N)	HAVC-1 (RTU1)	2	4	80	5,481 A 100 20 12 1 AUTOMATIC DOOR (INV)(C) 2
3	HAVC-2 (RTU2)	2	4	80	5,481 B 360 20 12 1 ELECT BOARD RECEPTABLE/SPLITZER (N) 4
5	HAVC-3 (RTU3)	2	4	80	5,481 C 180 20 12 1 ENERGY MANAGEMENT SYSTEM (N) 6
7	HAVC-4 (RTU4)	2	4	80	5,481 A 540 20 12 1 GFW/WP HVAC RECEPTABLE (N) 8
9	HAVC-5 (RTU5)	2	4	80	5,481 B 1,200 20 12 1 DRINK MERCHANTS/RECEPTABLE (INV)(C) 10
11	HAVC-6 (RTU6)	2	4	80	5,481 C 1,200 20 12 1 OUTDOOR SODA MACHINE (INV)(C) 12
13	HAVC-7 (RTU7)	2	4	80	5,481 A 480 20 12 1 DRINKING FOUNTAIN (N) 14
15	HAVC-8 (RTU8)	2	4	80	5,481 B 20 20 1 SPARE 16
17	HAVC-9 (RTU9)	2	4	80	5,481 C 20 20 1 SPARE 18
19	WATER HEATER (RW-H-1)	1	12	20	1,480 A 20 20 1 SPARE 20
21	DRINKING FOUNTAIN	1	12	20	480 B 20 20 1 SPARE 22
23	ICE MERCHANTS/RECEPTABLE	1	12	20	1,200 C 20 20 1 SPARE 24
25	RCF-1	1	12	20	100 A 20 20 1 SPARE 26
27	SPARE	1	20	20	B 20 20 1 SPARE 28
29	SPARE	1	20	20	C 20 20 1 SPARE 30
31	SPARE	1	20	20	A 20 20 1 SPARE 32
33	SPARE	1	20	20	B 20 20 1 SPARE 34
35	SPARE	1	20	20	C 20 20 1 SPARE 36
37	SPARE	1	20	20	A 20 20 1 SPARE 38
39	SPARE	1	20	20	B 20 20 1 SPARE 40
41	SPARE	1	20	20	C 20 20 1 SPARE 42

ELECTRICAL RISER NOTES

PANEL TYPE	DESCRIPTION	PHASE	WIRE SIZE	CONDUIT	NOTES
1 (N)	REACH-IN COOLER	2	4	80	5,481 A 100 20 12 1 AUTOMATIC DOOR (INV)(C) 2
3 (N)	REACH-IN COOLER	2	4	80	5,481 B 360 20 12 1 ELECT BOARD RECEPTABLE/SPLITZER (N) 4
5 (N)	REACH-IN COOLER	2	4	80	5,481 C 180 20 12 1 ENERGY MANAGEMENT SYSTEM (N) 6
7 (N)	REACH-IN COOLER	2	4	80	5,481 A 540 20 12 1 GFW/WP HVAC RECEPTABLE (N) 8
9 (N)	REACH-IN COOLER	2	4	80	5,481 B 1,200 20 12 1 DRINK MERCHANTS/RECEPTABLE (INV)(C) 10
11 (N)	REACH-IN COOLER	2	4	80	5,481 C 1,200 20 12 1 OUTDOOR SODA MACHINE (INV)(C) 12
13 (N)	REACH-IN COOLER	2	4	80	5,481 A 480 20 12 1 DRINKING FOUNTAIN (N) 14
15 (N)	REACH-IN COOLER	2	4	80	5,481 B 20 20 1 SPARE 16
17 (N)	REACH-IN COOLER	2	4	80	5,481 C 20 20 1 SPARE 18
19 (N)	REACH-IN COOLER	2	4	80	5,481 A 20 20 1 SPARE 20
21 (N)	REACH-IN COOLER	2	4	80	5,481 B 20 20 1 SPARE 22
23 (N)	REACH-IN COOLER	2	4	80	5,481 C 20 20 1 SPARE 24
25 (N)	REACH-IN COOLER	2	4	80	5,481 A 20 20 1 SPARE 26
27 (N)	REACH-IN COOLER	2	4	80	5,481 B 20 20 1 SPARE 28
29 (N)	REACH-IN COOLER	2	4	80	5,481 C 20 20 1 SPARE 30
31 (N)	REACH-IN COOLER	2	4	80	5,481 A 20 20 1 SPARE 32
33 (N)	REACH-IN COOLER	2	4	80	5,481 B 20 20 1 SPARE 34
35 (N)	REACH-IN COOLER	2	4	80	5,481 C 20 20 1 SPARE 36
37 (N)	REACH-IN COOLER	2	4	80	5,481 A 20 20 1 SPARE 38
39 (N)	REACH-IN COOLER	2	4	80	5,481 B 20 20 1 SPARE 40
41 (N)	REACH-IN COOLER	2	4	80	5,481 C 20 20 1 SPARE 42

ELECTRICAL RISER NOTES

PANEL TYPE	DESCRIPTION	PHASE	WIRE SIZE	CONDUIT	NOTES
1 (N)	REACH-IN COOLER	2	4	80	5,481 A 100 20 12 1 AUTOMATIC DOOR (INV)(C) 2
3 (N)	REACH-IN COOLER	2	4	80	5,481 B 360 20 12 1 ELECT BOARD RECEPTABLE/SPLITZER (N) 4
5 (N)	REACH-IN COOLER	2	4	80	5,481 C 180 20 12 1 ENERGY MANAGEMENT SYSTEM (N) 6
7 (N)	REACH-IN COOLER	2	4	80	5,481 A 540 20 12 1 GFW/WP HVAC RECEPTABLE (N) 8
9 (N)	REACH-IN COOLER	2	4	80	5,481 B 1,200 20 12 1 DRINK MERCHANTS/RECEPTABLE (INV)(C) 10
11 (N)	REACH-IN COOLER	2	4	80	5,481 C 1,200 20 12 1 OUTDOOR SODA MACHINE (INV)(C) 12
13 (N)	REACH-IN COOLER	2	4	80	5,481 A 480 20 12 1 DRINKING FOUNTAIN (N) 14
15 (N)	REACH-IN COOLER	2	4	80	5,481 B 20 20 1 SPARE 16
17 (N)	REACH-IN COOLER	2	4	80	5,481 C 20 20 1 SPARE 18
19 (N)	REACH-IN COOLER	2	4	80	5,481 A 20 20 1 SPARE 20
21 (N)	REACH-IN COOLER	2	4	80	5,481 B 20 20 1 SPARE 22
23 (N)	REACH-IN COOLER	2	4	80	5,481 C 20 20 1 SPARE 24
25 (N)	REACH-IN COOLER	2	4	80	5,481 A 20 20 1 SPARE 26
27 (N)	REACH-IN COOLER	2	4	80	5,481 B 20 20 1 SPARE 28
29 (N)	REACH-IN COOLER	2	4	80	5,481 C 20 20 1 SPARE 30
31 (N)	REACH-IN COOLER	2	4	80	5,481 A 20 20 1 SPARE 32
33 (N)	REACH-IN COOLER	2	4	80	5,481 B 20 20 1 SPARE 34
35 (N)	REACH-IN COOLER	2	4	80	5,481 C 20 20 1 SPARE 36
37 (N)	REACH-IN COOLER	2	4	80	5,481 A 20 20 1 SPARE 38
39 (N)	REACH-IN COOLER	2	4	80	5,481 B 20 20 1 SPARE 40
41 (N)	REACH-IN COOLER	2	4	80	5,481 C 20 20 1 SPARE 42

ELECTRICAL RISER NOTES

PANEL TYPE	DESCRIPTION	PHASE	WIRE SIZE	CONDUIT	NOTES
1 (N)	REACH-IN COOLER	2	4	80	5,481 A 100 20 12 1 AUTOMATIC DOOR (INV)(C) 2
3 (N)	REACH-IN COOLER	2	4	80	5,481 B 360 20 12 1 ELECT BOARD RECEPTABLE/SPLITZER (N) 4
5 (N)	REACH-IN COOLER	2	4	80	5,481 C 180 20 12 1 ENERGY MANAGEMENT SYSTEM (N) 6
7 (N)	REACH-IN COOLER	2	4	80	5,481 A 540 20 12 1 GFW/WP HVAC RECEPTABLE (N) 8
9 (N)	REACH-IN COOLER	2	4	80	5,481 B 1,200 20 12 1 DRINK MERCHANTS/RECEPTABLE (INV)(C) 10
11 (N)	REACH-IN COOLER	2	4	80	5,481 C 1,200 20 12 1 OUTDOOR SODA MACHINE (INV)(C) 12
13 (N)	REACH-IN COOLER	2	4	80	5,481 A 480 20 12 1 DRINKING FOUNTAIN (N) 14
15 (N)	REACH-IN COOLER	2	4	80	5,481 B 20 20 1 SPARE 16
17 (N)	REACH-IN COOLER	2	4	80	5,481 C 20 20 1 SPARE 18
19 (N)	REACH-IN COOLER	2	4	80	5,481 A 20 20 1 SPARE 20
21 (N)	REACH-IN COOLER	2	4	80	5,481 B 20 20 1 SPARE 22
23 (N)	REACH-IN COOLER	2	4	80	5,481 C 20 20 1 SPARE 24
25 (N)	REACH-IN COOLER	2	4	80	5,481 A 20 20 1 SPARE 26
27 (N)	REACH-IN COOLER	2	4	80	5,481 B 20 20 1 SPARE 28
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39 (N)	REACH-IN COOLER	2	4	80	5,481 B 20 20 1 SPARE 40
41 (N)	REACH-IN COOLER	2	4	80	5,481 C 20 20 1 SPARE 42

ELECTRICAL RISER NOTES

PANEL TYPE	DESCRIPTION	PHASE	WIRE SIZE	CONDUIT	NOTES
1 (N)	REACH-IN COOLER	2	4	80	5,481 A 100 20 12 1 AUTOMATIC DOOR (INV)(C) 2
3 (N)	REACH-IN COOLER	2	4	80	5,481 B 360 20 12 1 ELECT BOARD RECEPTABLE/SPLITZER (N) 4
5 (N)	REACH-IN COOLER	2	4	80	5,481 C 180 20 12 1 ENERGY MANAGEMENT SYSTEM (N) 6
7 (N)	REACH-IN COOLER	2	4	80	5,481 A 540 20 12 1 GFW/WP HVAC RECEPTABLE (N) 8
9 (N)	REACH-IN COOLER	2	4	80	5,481 B 1,200 20 12 1 DRINK MERCHANTS/RECEPTABLE (INV)(C) 10
11 (N)	REACH-IN COOLER	2	4	80	5,481 C 1,200 20 12 1 OUTDOOR SODA MACHINE (INV)(C) 12
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