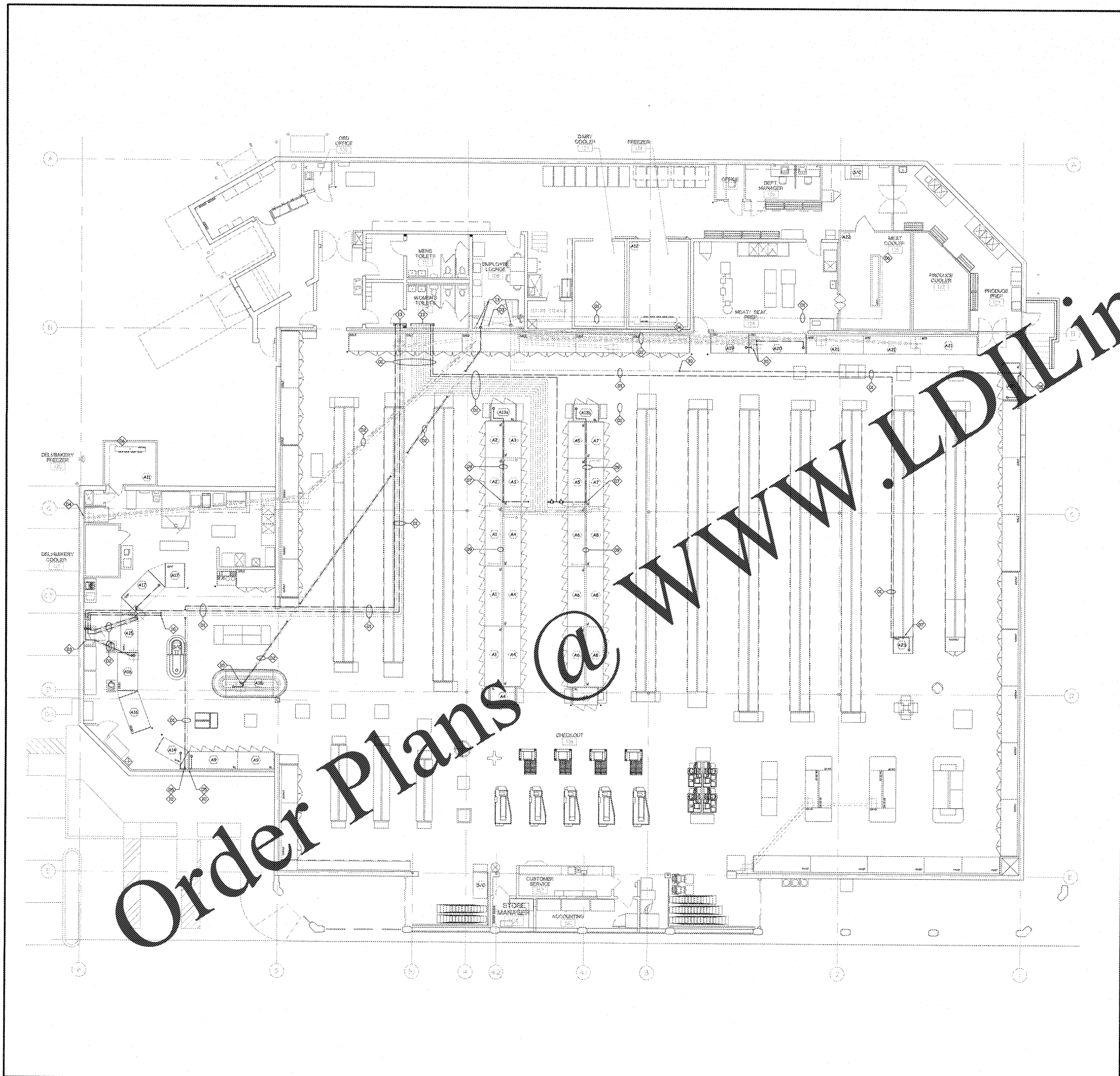
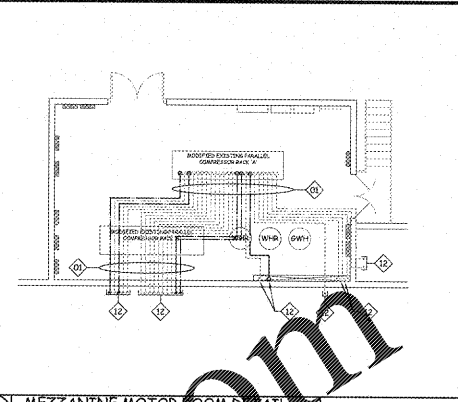


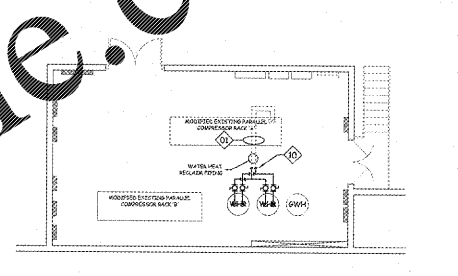
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1 REFRIGERATION PIPING PLAN - RACK 'Z' SCALE: 1/8" = 1'-0"



2 MEZZANINE MOTOR ROOM DETAIL - LIQUID AND GAS SCALE: 1/8" = 1'-0"



3 MEZZANINE MOTOR ROOM DETAIL - WATER HEAT RECLAIM SCALE: 1/8" = 1'-0"

3 MEZZANINE MOTOR ROOM DETAIL - WATER HEAT RECLAIM SCALE: 1/8" = 1'-0"

- REFRIGERATION PIPING NOTES
- THIS PLAN IS INTENTIONALLY SHOWN FOR CLARIFICATION PURPOSES ONLY. EACH LINE SHOWN REPRESENTS A LIQUID AND RETURN LINE PER CIRCUIT LOOP UNLESS OTHERWISE NOTED.
  - REGS TO INSTALLATION OF ANY REFRIGERATION PIPING. THE REFRIGERATION INSTALLATION CONTRACTOR SHALL COORDINATE ALL PIPING PATHS WITH THE STRUCTURAL STEEL ON CONSTRUCTION WITH THE GENERAL CONTRACTOR.
  - THE REFRIGERATION INSTALLATION CONTRACTOR SHALL COORDINATE ALL PIPING PATHS TO AVOID INTERFERENCE WITH ALL ELECTRICAL PANELS, STRUCTURAL AND GENERAL. NO PIPING SHALL PASS ABOVE ELECTRICAL PANELS AND TRANSFORMERS OR THROUGH ELECTRICAL CONDUITS.
  - THE REFRIGERATION INSTALLATION CONTRACTOR SHALL COORDINATE ALL PIPING PATHS TO AVOID CONFLICTS WITH ALL OTHER TRADES (E.G. HVAC EQUIPMENT, LIGHTS, FIXTURES, PLUMBING, ETC.).

REFRIGERATION LEGEND

---	REFRIGERATION PIPING - MAKE UP - EXISTING - LIQUID
---	REFRIGERATION PIPING - MAKE UP - EXISTING - GAS
---	REFRIGERATION PIPING - MAKE UP - NEW - LIQUID
---	REFRIGERATION PIPING - MAKE UP - NEW - GAS

- KEYED NOTES
- OVERHEAD DIRECT EXPANSION REFRIGERATION PIPING: TIGHT TO STRUCTURE COORDINATE WITH MECHANICAL, ELECTRICAL, PLUMBING AND GENERAL CONTRACTOR.
  - OVERHEAD DIRECT EXPANSION REFRIGERATION PIPING: RUN IN PIPE CHASE BELOW FLOOR.
  - OVERHEAD DIRECT EXPANSION REFRIGERATION PIPING: SHIP TO CASE CONNECTION.
  - OVERHEAD DIRECT EXPANSION REFRIGERATION PIPING: SHIP TO CASE CONNECTION. PIPING TO MATCH DESIGN AND/OR EXISTING. SHIP TO EXISTING PIPING THROUGH EXISTING PIPING CHASES. INCLUDE IN THE WORK LIST AND BEC'S FOLDER.
  - OVERHEAD DIRECT EXPANSION REFRIGERATION PIPING: SHIP TO CASE CONNECTION. COORDINATE WITH THE GENERAL CONTRACTOR AND BEC'S FOLDER.
  - EXISTING OVERHEAD DIRECT EXPANSION REFRIGERATION PIPING: AS SHOWN ON EXISTING PIPING PLAN.
  - EXISTING OVERHEAD DIRECT EXPANSION REFRIGERATION PIPING: TO BE REMOVED AND GATED.
  - SEE DETAIL AT ON THIS PLAN FOR DIRECT EXPANSION REFRIGERATION PIPING CONNECTIONS.
  - SEE DETAIL AT ON THIS PLAN FOR DIRECT EXPANSION REFRIGERATION PIPING CONNECTIONS.

SP	DESCRIPTION	QTY	UNIT	EST. QTY	EST. PRICE	EST. TOTAL
A1	1/2" COPPER PIPE	100	FT	100	1.50	150.00
A2	3/4" COPPER PIPE	50	FT	50	2.25	112.50
A3	1" COPPER PIPE	20	FT	20	3.00	60.00
A4	1 1/2" COPPER PIPE	10	FT	10	4.50	45.00
A5	2" COPPER PIPE	5	FT	5	9.00	45.00
A6	2 1/2" COPPER PIPE	2	FT	2	13.50	27.00
A7	3" COPPER PIPE	1	FT	1	18.00	18.00
A8	3 1/2" COPPER PIPE	1	FT	1	22.50	22.50
A9	4" COPPER PIPE	1	FT	1	27.00	27.00
A10	4 1/2" COPPER PIPE	1	FT	1	31.50	31.50
A11	5" COPPER PIPE	1	FT	1	36.00	36.00
A12	5 1/2" COPPER PIPE	1	FT	1	40.50	40.50
A13	6" COPPER PIPE	1	FT	1	45.00	45.00
A14	6 1/2" COPPER PIPE	1	FT	1	49.50	49.50
A15	7" COPPER PIPE	1	FT	1	54.00	54.00
A16	7 1/2" COPPER PIPE	1	FT	1	58.50	58.50
A17	8" COPPER PIPE	1	FT	1	63.00	63.00
A18	8 1/2" COPPER PIPE	1	FT	1	67.50	67.50
A19	9" COPPER PIPE	1	FT	1	72.00	72.00
A20	9 1/2" COPPER PIPE	1	FT	1	76.50	76.50
A21	10" COPPER PIPE	1	FT	1	81.00	81.00
A22	10 1/2" COPPER PIPE	1	FT	1	85.50	85.50
A23	11" COPPER PIPE	1	FT	1	90.00	90.00
A24	11 1/2" COPPER PIPE	1	FT	1	94.50	94.50
A25	12" COPPER PIPE	1	FT	1	99.00	99.00

REFRIGERATION NOTES AND LEGEND

All piping listed above is to be removed and replaced with the following:  
- Existing Piping to be removed, modified, or relocated new connections.  
- New Piping to be installed, modified, or relocated new connections.  
- Piping from other systems to be removed as noted below.

A18 - Replace and extend liquid line to existing condenser on Rack A.  
A19 - Replace and extend liquid line to existing condenser on Rack A.

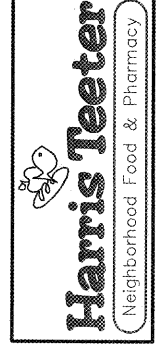
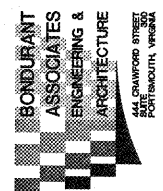
NO.	DATE	BY	DESCRIPTION
1	09/10/19	JTB	ISSUED FOR PERMIT
2	09/10/19	JTB	ISSUED FOR CONSTRUCTION

4 REFRIGERATION NOTES AND LEGEND SCALE: 1/8" = 1'-0"

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Date: SEPTEMBER 10, 2019 Job No. 1932  
Revision:  
No. Date Name  
1 09/10/19 JTB  
2 09/10/19 JTB



Project: HARRIS TEETER STORE #289 - REMODEL  
2603 GLENWOOD AVENUE, SUITE 101  
RALEIGH, NC 27608  
Title: REFRIGERATION PIPING PLAN - RACK 'A'