



**REVISIONS**

NO DATE REMARKS

1 03.10.2020 PERMIT COMMENTS



**FOOD LION**  
REMODEL  
STORE #1208  
13490 DUMFRIES RD  
MANASSAS, VA 20112

PROJECT NO: 2019.0917  
DATE: 2-13-20

27 OF 47

**P1.02**

REFRIGERATION PIT AND  
CONDUIT PLAN

CHECKED: PD DRAWN: AE

**SYMBOL LEGEND**

- EXISTING ACCESS PIT TO BE FILLED WITH 2500 PSI CONCRETE
- EXISTING ACCESS PIT TO BE ABANDONED
- NEW ACCESS PIT
- EXISTING EVAPORATOR COILS - REFRIGERANT PIPING TO REMAIN
- NEW EVAPORATOR COILS
- REFRIGERANT CIRCUIT
- EXISTING BELOW SLAB REFRIGERANT CONDUIT TO BE REUSED
- EXISTING BELOW SLAB REFRIGERANT CONDUIT TO BE ABANDONED
- NEW BELOW SLAB REFRIGERANT CONDUIT
- NEW OVERHEAD REFRIGERANT CONDUIT
- NEW ABOVE SLAB AND BELOW CASE REFRIGERATION PIPING

**GENERAL NOTES**

1. DIMENSIONS TO BE MAINTAINED WITHIN ONE INCH AS SHOWN.
2. DIMENSIONS ARE SHOWN FROM INTERIOR SURFACE OF EXTERIOR BUILDING WALLS, OR CLOSEST EXISTING INTERIOR WALL.
3. GENERAL CONTRACTOR IS RESPONSIBLE FOR INSTALLING ALL ACCESS TRENCHES, ACCESS PITS & CONDUIT RUNS.
  - ACCESS PITS SHALL BE PREFAB FIBERGLASS BY MOORE FIBERGLASS (252) 753-2583 OR CMB ENTERPRISES 1-(888)-443-0308
  - ACCESS PITS SHALL BE 2'-0"X2'-0"X18"-H" UNLESS NOTED OTHERWISE
  - REFRIGERANT CONDUIT TO BE INSTALLED LEVEL UNDER SLAB
  - NO REFRIGERANT CONDUIT RUNS SHALL BE STACKED UNDER SLAB
4. GENERAL CONTRACTOR IS RESPONSIBLE FOR PREVENTING ANY FOREIGN MATTER FROM ENTERING THE CONDUIT SYSTEM.
  - PROTECT OPEN END OF CONDUIT DURING CONSTRUCTION TO PREVENT DEBRIS FROM ENTERING CONDUIT AND SEAL END OF CONDUIT WITH ROCKET PROOF MATERIAL ON BOTH ENDS IMMEDIATELY AFTER REFRIGERATION PIPING HAS BEEN INSTALLED AND INSPECTED
  - SEAL ACCESS PITS PER MANUFACTURER'S RECOMMENDATIONS BY CAPPING WITH CONCRETE CURB AND FLOOR TILE AFTER REFRIGERATION LINES HAVE BEEN INSPECTED AND TESTED
  - SEAL OPEN END OF 6" CONDUIT TO PREVENT SAND FROM ENTERING CONDUIT IN ALL ACCESS PITS IMMEDIATELY AFTER PIPE IS INSTALLED
5. GENERAL CONTRACTOR IS RESPONSIBLE FOR SEALING, GROUTING & PATCHING AROUND REFRIGERATION LINES AT WALL PENETRATIONS.
6. REFRIGERATION CONTRACTOR TO ANSWER ALL PROBE CASES TO FINISHED FLOOR AT ALL FOUR CORNERS OF CASE, AFTER ALL TESTING HAS BEEN COMPLETED.
7. MINIMUM SPACE BETWEEN UNDERSLAB PVC CONDUITS SHALL BE 4".
8. GENERAL CONTRACTOR SHALL BOX AROUND EXPOSED REFRIGERATION LINES WITH 3 5/8" METAL STUDS & FINISH TO MATCH SURROUNDING AREA.
9. REFRIGERATION PIPING (LIQUID AND SUCTION) SHALL DROP DOWN THRU THE PRE-FAB ROOF OF THE WALL-IN/PREPS AS APPLICABLE. THIS SHALL BE AS NEAR THE CONNECTION POINT OF THE EVAPORATOR AS MECHANICALLY POSSIBLE. THE REFRIGERATION CONTRACTOR SHALL COORDINATE THIS WORK WITH ALL TRADES TO AVOID ISSUES WITH LIGHTS, DRAIN PIPING, ETC. AND ELIMINATE EXTRA WORK AND COST.
10. WHEN REFRIGERATION LINES ARE PENETRATING ANY WALLS, GENERAL CONTRACTOR SHALL SEAL AROUND LINES WITH FOAM INSULATION.
11. REFRIGERATION CONTRACTOR SHALL RUN ALL OVERHEAD LINES TO FLOOR, THEN INSTALL A TRWP AND PIPE STUB DOOR CASES ARE TO BE PUSHED ONTO STUDS AND CONTRACTOR TO MAKE CONNECTION AS USUAL UNDER CASES.
12. FIBERGLASS PITS CAN BE MODIFIED AS NEEDED TO WORK AROUND EXISTING CONDUIT, ETC. FOUR ENDS SHALL BE FINISHED FLUSH WITH A MINIMUM 2" CONCRETE TO THE EXISTING SLAB ALLOW FOR PLYWOOD BOTTOM SPLIT IN HALF TO ALLOW FOR FUTURE PIT ACCESS. ALL REMOVED PITS MUST BE SEALED COMPLETELY TO ROCKET PROOF AND WEATHER. CONSTRUCTION MATERIAL FROM DRINKING THE REFRIGERATION LINES. SPECIAL PRECAUTIONS SHALL BE MADE WHEN CUTTING HOLES IN FIBERGLASS BOXES TO LIMIT THE AMOUNT OF FIBERGLASS THAT IS CUT AWAY FOR LINE INSTALLATION. ALL PITS SHALL BE PROTECTED WITH CURB AND FLOOR TILE TO SHOW INTERIOR BEFORE AND AFTER WORK BARRIER INSTALL AND TRENCH COMPLETION. GENERAL CONTRACTOR IS RESPONSIBLE FOR INSTALLING ALL NEW ACCESS TRENCHES, ACCESS PITS AND CONDUIT RUNS.
13. EXISTING EVAPORATOR WITH REFRIGERANT LINES RUN OVERHEAD BACK TO THE EQUIPMENT ROOM.
14. REFRIGERATION CONTRACTOR IS RESPONSIBLE FOR CONNECTING/RECONNECTING CASE AND EVAPORATOR DRAINS.
15. GENERAL CONTRACTOR SHALL BOX AROUND EXPOSED REFRIGERATION LINES. SEE 10/P&D1. REFRIGERATION DROPS/BOXING TO BE IN LINE WITH SALES AREA COLUMNS. PAINT TO MATCH GYP BD WALLS.
16. GC SHALL VERIFY EXISTING DIELECTRIC UNIONS AT ALL EVAPORATORS. IF NONE EXISTING, PROVIDE. SEE 12/P&D1.

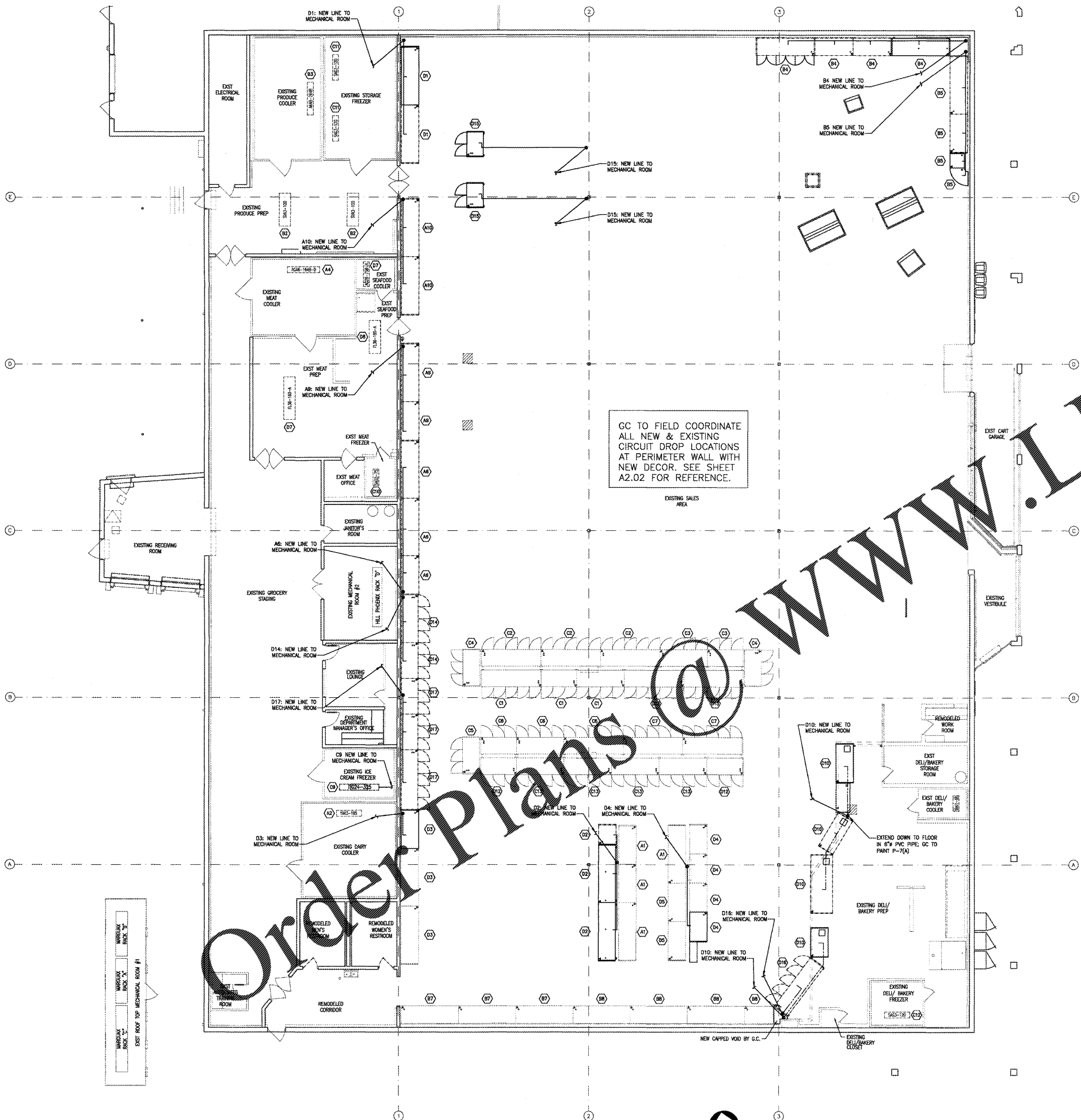
**NEW/RELOCATED REFRIGERATION PIPING SIZE**

CIRCUIT	RUN FT.	SUCTION LIQUID	
		HORIZONTAL	RISE HORIZONTAL
A6	199	1 3/8"	1 3/8" 5/8"
A9	164	1 3/8"	1 3/8" 5/8"
A10	110	1 5/8"	1 1/8" 5/8"
B4	366	1 5/8"	1 3/8" 5/8"
B5	426	1 3/8"	1 1/8" 5/8"
C9	100	1 1/8"	1 1/8" 5/8"
D1	200	1 3/8"	1 1/8" 5/8"
D2	200	1 3/8"	1 1/8" 5/8"
D3	180	1 3/8"	1 1/8" 5/8"
D4	280	1 3/8"	1 1/8" 5/8"
D10	270	1 3/8"	1 1/8" 5/8"
D14	30	1 1/8"	7/8" 5/8"
D15	180	7/8"	7/8" 5/8"
D16	250	1 1/8"	7/8" 5/8"
D17	80	1 1/8"	7/8" 5/8"

GC TO FIELD COORDINATE ALL NEW & EXISTING CIRCUIT DROP LOCATIONS AT PERIMETER WALL WITH NEW DECOR. SEE SHEET A2.02 FOR REFERENCE.

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2 ROOFTOP MECHANICAL ROOM  
P1.02 SCALE: 3/32" = 1'-0"

1 REFRIGERATION PIT AND CONDUIT PLAN  
P1.02 SCALE: 3/32" = 1'-0"

