ANALOG TEMPERATURE SENSOR GUIDELINES

APPLICATION:

- COOLERS/FREEZERS/PREP AREAS

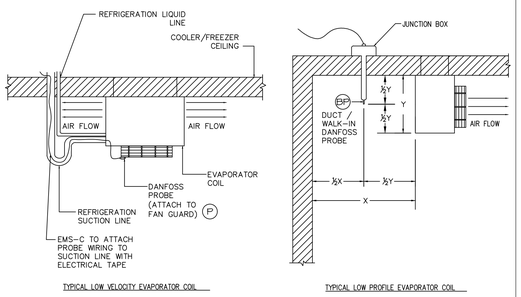
  ONE SENSOR PER COOLING COIL. LOCATE IN THE COILS RETURN AIRFLOW.

- CASES

  ONE SENSOR PER EVERY TWO CASES, WIDE ISLAND END CAPS TO BE CONSIDERED CASES
  SENSORS TO BE LOCATED IN THOSE CASES MOST LIKELY TO EXPERIENCE THE GREATEST LOAD. (CASES AT END OF LINE UPS OR NEAR DOORS TO VESTIBULE, BACKROOM OR PREP AREA)

  MISCELLANEOUS EQUIPMENT (FREE STANDING FREEZERS, REFRIGERATORS ETC.):
  ONE SENSOR PER ITEM
  ICE MACHINES AND BLAST CHILLERS DO NOT REQUIRE TEMPERATURE SENSORS.

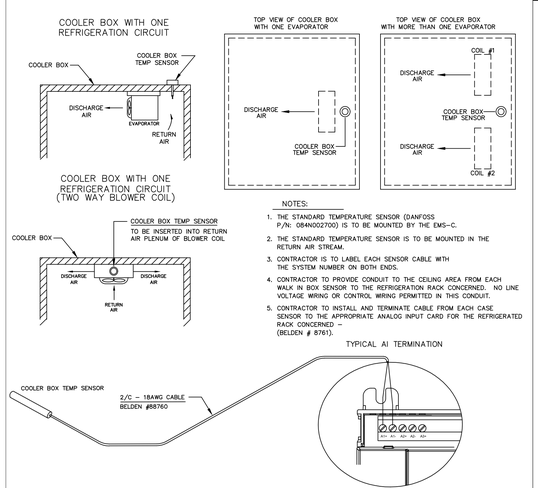
EXCEPTIONS TO ABOVE RULES:
IF CIRCUIT CONSISTS OF DISSIMILAR CASE MODELS, PROVIDE A MINIMUM OF ONE SENSOR PER MODEL TYPE.
EACH GLASS DOOR END CAP TO BE PROVIDED WITH A SENSOR. ANY OTHER GLASS DOOR CASES ON CIRCUITS TO BE CONSIDERED INDEPENDENTLY.
IF ALL CASES ON A CIRCUIT ARE NOT ADJOINING, PROVIDE A MINIMUM OF ONE SENSOR PER CONTINUOUS SECTION.



TYPICAL LOW VELOCITY EVAPORATOR COIL

TYPICAL LOW PROFILE EVAPORATOR COIL

1 BOX PROBE MOUNTING DETAIL — SCALE: NONE

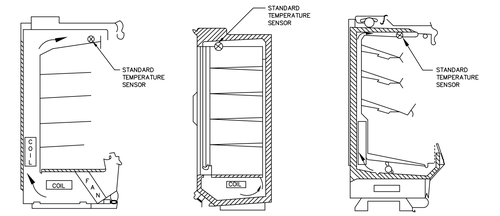


NOTES:

1. THE STANDARD TEMPERATURE SENSOR (DANFOSS P/N: 084N002700) IS TO BE MOUNTED BY THE EMS-C.
2. THE STANDARD TEMPERATURE SENSOR IS TO BE MOUNTED IN THE RETURN AIR STREAM.
3. CONTRACTOR IS TO LABEL EACH SENSOR CABLE WITH THE SYSTEM NUMBER ON BOTH ENDS.
4. CONTRACTOR TO PROVIDE CONDUIT TO THE CEILING AREA FROM EACH WALK IN BOX SENSOR TO THE REFRIGERATION RACK CONCERNED. NO LINE VOLTAGE WIRING OR CONTROL WIRING PERMITTED IN THIS CONDUIT.
5. CONTRACTOR TO INSTALL AND TERMINATE CABLE FROM EACH CASE SENSOR TO THE APPROPRIATE ANALOG INPUT CARD FOR THE REFRIGERATED RACK CONCERNED – (BELDEN # 8761).

TYPICAL AI TERMINATION

2 SENSOR INSTALLATION - COOLER BOX — SCALE: NONE



MULTI–DECK (FROZEN FOOD & ICE CREAM)

GLASS DOOR REACH–IN (FROZEN FOOD & ICE CREAM)

MULTI–DECK (DAIRY/DELI/MEAT)

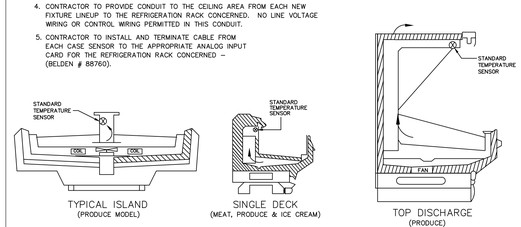
NOTES:

1. THE STANDARD TEMPERATURE SENSOR (DANFOSS P/N: 084N002700) IS TO BE MOUNTED BY THE REM AND LOCATION VERIFIED BY THE EMS–C.
2. THE STANDARD TEMPERATURE SENSOR IS TO BE MOUNTED IN THE PRIMARY DISCHARGE AIR PLENUM.
3. CONTRACTOR IS TO LABEL EACH SENSOR CABLE WITH THE SYSTEM NUMBER ON BOTH ENDS.
4. CONTRACTOR TO PROVIDE CONDUIT TO THE CEILING AREA FROM EACH NEW FIXTURE LINEUP TO THE REFRIGERATION RACK CONCERNED. NO LINE VOLTAGE WIRING OR CONTROL WIRING PERMITTED IN THIS CONDUIT.
5. CONTRACTOR TO INSTALL AND TERMINATE CABLE FROM EACH CASE SENSOR TO THE APPROPRIATE ANALOG INPUT CARD FOR THE REFRIGERATION RACK CONCERNED – (BELDEN # 88760).

3 CASE SENSOR LOCATIONS (MULTI-DECK) — SCALE: NONE

NOTES:

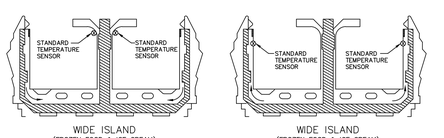
1. THE STANDARD TEMPERATURE SENSOR (DANFOSS P/N:084N002700) IS TO BE MOUNTED BY THE REM AND LOCATION VERIFIED BY THE EMS–C.
2. THE STANDARD TEMPERATURE SENSOR IS TO BE MOUNTED IN THE PRIMARY DISCHARGE AIR PLENUM.
3. CONTRACTOR IS TO LABEL EACH SENSOR CABLE WITH THE SYSTEM NUMBER ON BOTH ENDS.
4. CONTRACTOR TO PROVIDE CONDUIT TO THE CEILING AREA FROM EACH NEW FIXTURE LINEUP TO THE REFRIGERATION RACK CONCERNED. NO LINE VOLTAGE WIRING OR CONTROL WIRING PERMITTED IN THIS CONDUIT.
5. CONTRACTOR TO INSTALL AND TERMINATE CABLE FROM EACH CASE SENSOR TO THE APPROPRIATE ANALOG INPUT CARD FOR THE REFRIGERATION RACK CONCERNED – (BELDEN # 88760).



TYPICAL ISLAND (PRODUCE MODEL)

SINGLE DECK (MEAT, PRODUCE & ICE CREAM)

TOP DISCHARGE (PRODUCE)



WIDE ISLAND (FROZEN FOOD & ICE CREAM) BACK–TO–FRONT DISCHARGE

WIDE ISLAND (FROZEN FOOD & ICE CREAM) FRONT–TO–BACK DISCHARGE

4 CASE SENSOR LOCATIONS (SINGLE-DECK) — SCALE: NONE

- FOR REFERENCE ONLY -
CONSTRUCTION GUIDELINES

BIDS AND PERMITS	03/06/2024
DIRECT BUY QUOTE	02/19/2024
issued for: 90% OWNER REVIEW	01/25/2024

PROPOSED MINOR INTERIOR REMODEL FOR:

Kroger

STORE NO. D-711

7084 MILLER ROAD
SWARTZ CREEK, MI 48473

THE KROGER CO. OF MICHIGAN

jeffery a. scott architects p.c.

32316 grand river ave. suite 200
farmington, michigan 48336-3261
(248) 476-8800 fax (248) 476-8833

ENERGY MGMT TERM DETAILS

project no.	sheet no.
23086	EM-2.1

PLOT FULL SIZE @ 30"x42"

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